GRE DECEMBER 2018

PROJECT ID: 1500-37-71/72, 1500-47-71, 4570-12-71/72

WITH: N/A

COUNTY: MANITOWOC

16

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 1064

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1500-47-71	WISC 2018471	1
1500-37-71	WISC 2018470	1
1500-37-72	———	———
4570-12-71	WISC 2018472	1
4570-12-72	———	———

WALDO BLVD, CITY OF MANITOWOC

CTH R-FLEETWOOD DRIVE

USH 10

MANITOWOC COUNTY

STATE PROJECT NUMBER 1500-47-71

WALDO BLVD, CITY OF MANITOWOC

FLEETWOOD DRIVE-8TH STREET

USH 10

MANITOWOC COUNTY

STATE PROJECT NUMBER 1500-37-71/72

WALDO BLVD, CITY OF MANITOWOC

8TH STREET-MARITIME DRIVE

STH 42

MANITOWOC COUNTY

STATE PROJECT NUMBER 4570-12-71/72

PROJECT LOCATION

BEGIN PROJECT 1500-37-71/72
STA. 70+00.00
Y=306973.548
X=2255506.812

DESIGN DESIGNATION

		USH 10	STH 42
A.A.D.T.	2019	= 15,400	11,700
A.A.D.T.	2039	= 17,200	13,600
D.H.V.	2039	= 1,961	1,551
D.D.		= 58/42	58/42
T.		= 5.5%	5.5%
DESIGN SPEED		= 40 MPH	40 MPH
ESALS		= 3,124,400	2,423,600

BEGIN PROJECT 1500-47-71
STA. 38+00.00
Y=307069.287
X=222308.245

END PROJECT 1500-47-71
STA. 70+00.00

CONVENTIONAL SYMBOLS

PLAN

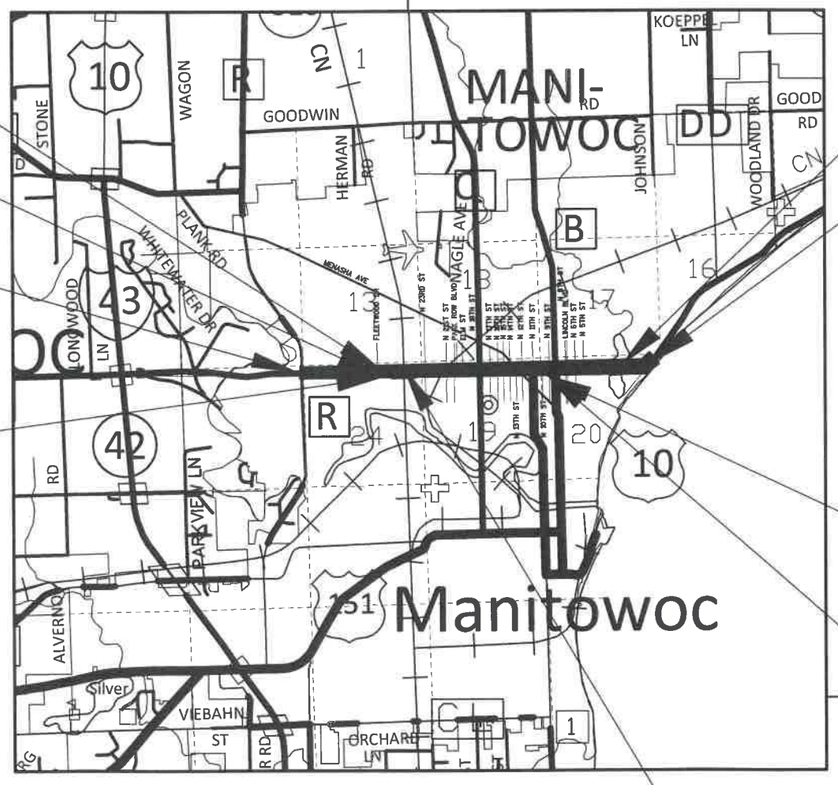
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE



END PROJECT 4570-12-71/72
STA. 194+90.00

BEGIN PROJECT 4570-12-71/72
STA. 152+25.00
Y=306786.930
X=233729.157

END PROJECT 1500-37-71/72
STA. 152+25.00

LAYOUT SCALE 0 1 MI

TOTAL NET LENGTH OF CENTERLINE = 0.606 MI. PROJECT 1500-47-71
TOTAL NET LENGTH OF CENTERLINE = 1.558 MI. PROJECT 1500-37-71
TOTAL NET LENGTH OF CENTERLINE = 0.808 MI. PROJECT 4570-12-71

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, MANITOWOC COUNTY, NAD83 (1991), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ACCEPTED FOR CITY OF MANITOWOC

6-18-18 (DATE) (DIRECTOR OF PUBLIC INFRASTRUCTURE)

ORIGINAL PLANS PREPARED BY

AYRES ASSOCIATES

WISCONSIN TROY B. ROBILLARD 35094 GREEN BAY, WI PROFESSIONAL ENGINEER

6/14/18 (Date)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	AYRES ASSOCIATES
Designer	AYRES ASSOCIATES
Project Manager	BRIAN HAEN
Regional Examiner	
Regional Supervisor	CHAD DEGRAVE

APPROVED FOR THE DEPARTMENT

DATE: 6/14/18 Brian Haen (Signature)

E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_010101 TI.DWG

PLOT DATE : 6/14/2018 8:13 AM PLOT BY : AYRES ASSOCIATES PLOT NAME :

WISDOT/CADDS SHEET 10

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

FILL, AS SHOWN ON THE PLAN SHEETS, PERTAINS TO EMBANKMENT CONSTRUCTED FROM EXCAVATION COMMON. THE FACTOR USED FOR EXPANDING THE FILLS TO COMPUTE THE VOLUME OF MATERIAL REQUIRED IS 1.33.

EXCAVATION BELOW SUBGRADE (EBS) WILL BE MEASURED AND PAID FOR AS EXCAVATION COMMON. THE LOCATION FOR EBS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE EXACT LOCATION AND WIDTH OF PRIVATE ENTRANCES WILL BE DETERMINED BY THE FIELD BY THE ENGINEER. ALL DRIVEWAYS ARE TO BE REPLACED IN KIND UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS SHOWN ON THE PLANS. BASE AGGREGATE DENSE 1 1/4-INCH WILL BE USED UNDER ALL DRIVEWAYS.

THE REMOVAL OF ASPHALT DRIVEWAYS WILL BE PAID FOR AS EXCAVATION COMMON.

MAINTAIN DRIVING SURFACE TO ALL PROPERTY OWNERS WITH BASE AGGREGATE DENSE 1 1/4-INCH.

A SAW JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MEETS EXISTING HMA PAVEMENT.

SAW CUT LOCATIONS SHOWN ON THE PLAN ARE SUBJECT TO ADJUSTMENT BY THE ENGINEER IN THE FIELD. THE LINE OF SUCH SAW CUTS WILL BE NEATLY DELINEATED THROUGH THE ASPHALT AND/OR CONCRETE STREETS, DRIVEWAYS AND/OR PARKING LOTS AT THE MATCH LINE AS SHOWN ON THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER WITHOUT ANY DAMAGE TO THE REMAINING PORTION OF THE EXISTING PAVEMENT.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN AND PROVIDE DOCUMENTATION TO THE ENGINEER.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL WILL NOT BE PERMITTED IN WETLANDS, FLOODWAY OR FLOODPLAIN OF ANY WETLANDS.

EROSION CONTROL MEASURES WILL BE PLACED AS SHOWN ON THE EROSION CONTROL PLAN. THE EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER. REMOVAL OF ITEMS ARE INCIDENTAL TO THE RESPECTIVE EROSION CONTROL BID ITEM COSTS.

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL BY THE ENGINEER. FINAL LIMITS OF FENCE REMOVAL TO BE DETERMINED BY THE ENGINEER.

RESHAPE AND SEEDING OF ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS OUTSIDE OF THE ENGINEER DETERMINED CONSTRUCTION LIMITS ARE INCIDENTAL TO THE CONTRACT.

DO NOT USE FERTILIZER WITHIN 20 FEET OF NAVIGABLE WATERWAYS OR WETLANDS.

STATIONING, DISTANCES, AND OFFSETS FOR SIGNS AND TRAFFIC CONTROL DEVICES SHOWN IN THE PLANS ARE APPROXIMATE. EXACT LOCATIONS ARE DETERMINED BY THE ENGINEER.

COVER ALL SIGNS IN CONFLICT WITH TRAFFIC CONTROL "IN USE" AS SHOWN IN THE PLANS OR DIRECTED BY THE ENGINEER.

BOXOUTS WILL BE PROVIDED IN CONCRETE SIDEWALK BY THE CONTRACTOR FOR SIGN PLACEMENT. THE COST OF THE BOXOUTS WILL BE INCIDENTAL TO CONCRETE SIDEWALK. LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING MOTORISTS AND PEDESTRIANS THAT MAY ENTER THE WORK ZONE FROM POSSIBLE HAZARD.

CURB AND GUTTER ELEVATIONS ARE ALONG THE FLANGE LINE UNLESS OTHERWISE NOTED.

RADIUS POINTS, UNLESS OTHERWISE NOTED, ARE TO FACE OF CURB.

CURVE DATA IS BASED ON ARC DEFINITION.

BEARINGS SHOWN ON THIS PLAN ARE TRUE BEARINGS.

PROPERTY LINES SHOWN ARE APPROXIMATE.

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

CONCRETE DEPTH ON ALL CURB RAMPS SHALL BE 6-INCH.

REMOVAL OF ANY MESH OR REINFORCEMENT FOUND IN CONCRETE PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO THE REMOVING PAVEMENT ITEM

ALL WATER AND SANITARY SEWER UTILITIES ARE STATIONED FROM THE EAST BOUND CONSTRUCTION REFERENCE LINE.

THE OWNER RESERVES THE RIGHT TO SALVAGE ANY EXISTING UTILITY AND STREET APPURTENANCES INCLUDING, BUT NOT LIMITED TO, CASTINGS, VALVES, HYDRANTS OR SIGN AND SIGN SUPPORTS.

PROTECT EXISTING ASPHALT ON STREETS OUTSIDE OF PROPOSED SAW CUTS. ANY DAMAGE DURING CONSTRUCTION UNDER THIS CONTRACT SHALL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE.

PROTECT EXISTING WATER AND SANITARY SEWER UTILITIES AND APPURTENANCES NOT SHOWN TEMPORARY REMOVAL AND ANY DAMAGE DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

ALL EXISTING PIPES ABANDONED-IN-PLACE SHALL HAVE A PIPE PLUG. EXISTING ABANDONED PIPES ENCOUNTERED SHALL RECEIVE A PIPE PLUG.

ALL SANITARY SEWER PIPE AND WATER MAIN SHALL BE SAW CUT AT RIGHT ANGLES TO PROVIDE A CLEAN JOINT.

FIELD VERIFY LOCATION, SIZE, AND TYPE OF SANITARY SEWER LATERALS AND CONNECT TO PROPOSED SANITARY PIPELINE WITH WYE, APPROPRIATE BEND, PIPELINE, AND TRANSITION COUPLINGS. SEWER SEWER LATERALS SHALL BE VISUALLY INSPECTED. ALL EXPOSED SANITARY LATERALS SHALL SHALL BE CONNECTED BY THE END OF THE DAY.

FIELD VERIFY SANITARY LATERAL INVERT ELEVATIONS TO EXISTING BUILDINGS. SANITARY LATERALS MAY NEED TO BE LOWERED TO AVOID PROPOSED WATER MAIN CONFLICTS. RISERS MAY BE REQUIRED.

DYE TESTING MAY BE REQUIRED TO FIELD VERIFY USE OF SANITARY LATERALS. ALL COSTS ASSOCIATED WITH DYE TESTING SHALL BE INCLUDED IN BID PRICE FOR SANITARY LATERAL RECONNECTION.

WHEN CONNECTING TO AN EXISTING MANHOLE, RECONSTRUCT NEW BENCH AND FLOW LINE TO ACCOMODATE NEW PIPE.

EXISTING WATER MAINS TO REMAIN IN SERVICE DURING CONSTRUCTION OF THE PROPOSED WATER MAIN. WATER SERVICES CAN NOT BE RECONNECTED UNTIL SAFE WATER SAMPLES HAVE BEEN OBTAINED AND THE PIPELINE HAS BEEN PRESSURE TESTED.

ALL WATER MAIN PIPELINES INCLUDING WATER SERVICES HAVING A DEPTH OF COVER LESS THAN 6-FEET OR UNDER STORM SEWER GREATER THAN 30" TO BE PROTECTED AGAINST FREEZING BY INSTALLATION OF 2-INCH THICK TRENCH INSULATION. INSULATION TO BE FULL TRENCH WIDTH AND PLACED ABOVE INITIAL BACKFILL ZONE.

WATER SERVICE SIZE TO BE INSTALLED AT A 1" MINIMUM DIAMETER OR MATCH EXISTING UNLESS NOTED ON DRAWINGS.

FIELD VERIFY LOCATION, SIZE AND TYPE OF WATER MAIN SERVICES. ALL FIELD VERIFICATION COSTS TO BE INCLUDED IN THE BID PRICES FOR WATER MAIN RECONNECTIONS.

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE-TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 9.81 ACRES
SOIL GROUP C

ORDER OF SECTION 2 SHEETS

GENERAL NOTES & CONTACTS
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
PAVING DETAILS
EROSION CONTROL
STORM SEWER
PLANTING AND LIGHTING
PERMANENT SIGNING
TRAFFIC SIGNALS
PAVEMENT MARKING
TRAFFIC CONTROL
STAGE CONSTRUCTION
DETOURS
ALIGNMENT DIAGRAMS

STANDARD ABBREVIATIONS

ABUT	ABUTMENT
AC	ACRE
AGG	AGGREGATE
AH	AHEAD
ET AL	AND OTHERS
BK	BACK
BLDG	BUILDING
BLK	BLOCK
BR	BRIDGE
CB	CATCH BASIN
CL OR C/L	CENTER LINE
CE	COMMERCIAL ENTRANCE
CONC	CONCRETE
CPCA	CULVERT PIPE CORRUGATED ALUMINUM
CPCS	CULVERT PIPE CORRUGATED STEEL
CTH	COUNTY TRUNK HIGHWAY
CR	CREEK
CP	CULVERT PIPE
C & G	CURB AND GUTTER
D	DEGREE OF CURVE
DHV	DESIGN HOUR VOLUME
DIA	DIAMETER
DWY OR DW	DRIVEWAY
E	EAST
X	EAST GRID COORDINATE
EB OR EBND	EASTBOUND
EL OR ELEV	ELEVATION
ENT	ENTRANCE
ESALS	EQUIVALENT SINGLE AXLE LOADS
EXIST OR EX	EXISTING
FF OR F-F	FACE TO FACE
FE	FIELD ENTRANCE
FG	FINISHED GRADE
FT	FOOT
INL	INLET
INV	INVERT
IP	IRON PIPE OR PIN
LT	LEFT
L	LENGTH OF CURVE
LIN FT OR LF	LINEAR FOOT
MH	MANHOLE
NC	NORMAL CROWN
NW OR N/W	NORMAL WATER
N	NORTH
Y	NORTH GRID COORDINATE
NB OR NBND	NORTHBOUND
PT	POINT
PCC	POINT OF COMPOUND CURVE
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
POC	POINT ON CURVE
POT	POINT ON TANGENT
RR	RAILROAD
RL OR R/L	REFERENCE LINE
REBAR	REINFORCEMENT BAR
REQ'D	REQUIRED
R/W	RIGHT-OF-WAY
R	RADIUS
S	SOUTH
SB OR SBND	SOUTHBOUND
STH	STATE TRUNK HIGHWAYS
STA	STATION
SS	STORM SEWER
SE	SUPER ELEVATION
SURF	SURFACE
T	TANGENT
TYP	TYPICAL
WB OR WBND	WESTBOUND

AB	ANCHOR BOLT
ABV	ABOVE
ADJ	ADJUST
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ALT	ALTERNATE WITH
ALT/	ALTERNATE
APPROX	APPROXIMATE
ASPH	ASPHALT
AUTO	AUTOMATIC
AVE	AVENUE
@	AT
BC	BACK OF CURB
BD	BOARD
BEL	BELOW
BETWN	BETWEEN
BF	BACK FACE
BFV	BUTTERFLY VALVE
BLD	BLIND
BLDG	BUILDING
BLKG	BLOCKING
BLVD	BOULEVARD
BM	BENCHMARK
BO	BREAKOFF
BRG	BEARING
BRK	BRICK
BS	BACK OF SIDEWALK
BTM	BOTTOM
BV	BALL VALVE
℄	BASELINE
B/	BOTTOM OF
CB	CATCH BASIN
CF	CUBIC FOOT
CHKD P	CHECKERED PLATE
CI	CAST IRON
CJ	CONTROL JOINT
CHL	CHLORINE
CLG	CEILING
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
CONN	CONNECTION
CONST	CONSTRUCTION
CONST JT	CONSTRUCTION JOINT
CONT	CONTINUOUS
CONTR	CONTRACTOR
CONTR JT	CONTRACTION JOINT
COR	CORNER
CP	CONTROL POINT
CPLG	COUPLING
CRS	COURSE
CTG	CASTING
CULV	CULVERT
CV	CHECK VALVE
CW	COLD WATER
CY	CUBIC YARD
DEFL	DEFLECTION
DEG / °	DEGREE
DF	DRINKING FOUNTAIN
DI	DUCTILE IRON
DIM	DIMENSION
DISCH	DISCHARGE
DN	DOWN
DP	DEPTH
DR	DOOR
DTL	DETAIL
DWG	DRAWING
EA	EACH
EF	EACH FACE
EFF	EFFLUENT
EJ	EXPANSION JOINT
ELB	ELBOW
ELEC	ELECTRICAL
EQ	EQUAL
EQUIP	EQUIPMENT
ER	END OF RADIUS
EST	ESTIMATE
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FDN	FOUNDATION
FERT	FERTILIZER
FGL	FIBERGLASS
FIN	FINISHED
FL	FLOWLINE
FLG	FLANGED
FLR	FLOOR
FM	FORCE MAIN
FN	FENCE
FT (')	FOOT
FTG	FOOTING
FUT	FUTURE

G	GAS
GA	GAGE
G OR GAR	GARAGE
GEN	GENERAL
GRD	GRADE, GROUND
GV	GATE VALVE
GRAV	GRAVEL
GW	GROUNDWATER
HB	HOSE BIB
HM	HOLLOW METAL
HORZ	HORIZONTAL
HSE	HOUSE
HT	HEIGHT
HW	HOT WATER
HWR	HOT WATER RETURN
HYD	HYDRANT
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN (")	INCHES
INCL	INCLUDE
INF	INFLUENT
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
JT	JOINT
KGV	KNIFE GATE VALVE
LAB	LABORATORY
LAV	LAVATORY
LG OR L	LENGTH
LOC	LOCATION
LP	LIGHT POLE
LS	LUMP SUM
LT	LEFT
MAS	MASONRY
MAX	MAXIMUM
MECH	MECHANICAL
MFG	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MP	MID POINT
MTL	MATERIAL
NF	NEAR FACE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NPW	NON-POTABLE WATER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OE	OVERHEAD ELECTRIC
OF	OUTSIDE FACE
OH	OVERHEAD
OPG	OPENING
PE	PRIVATE ENTRANCE
PED	PEDESTAL
PERF	PERFORATE
PKG	PARKING
P	PLATE
PL	PLACE
PLP	PROPERTY LINE
PP	POWER POLE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PW	POTABLE WATER
%	PERCENT
QTY	QUANTITY
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RD	ROOF DRAIN
RDWY	ROADWAY
RED	REDUCER
REF OR ℄	REFERENCE
REINF	REINFORCING
REM	REMOVE
REPL	REPLACE
REV	REVISED
RM	ROOM
RR	RAILROAD
RT	RIGHT

SAN	SANITARY
SAMH	SANITARY MANHOLE
SCH	SCHEDULE
SEC	SECTION
SF	SQUARE FOOT
SHT	SHEET
SIM	SIMILAR
SL	SLOPE
SPA	SPACE
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SSMH	STORM SEWER MANHOLE
ST	STREET
STD	STANDARD
STL	STEEL
SURF	SURFACE
SW	SIDEWALK
SWR	SEWER
SY	SQUARE YARD
SYS	SYSTEM
T&B	TOP & BOTTOM
TC	TOP BACK OF CURB
T	TELEPHONE
THK	THICKNESS
THRU	THROUGH
TP	TELEPHONE POLE
TYP	TYPICAL
T/	TOP OF
UG	UNDERGROUND GAS
UE	UNDERGROUND ELECTRICAL
UNEXC	UNEXCAVATED
UNO	UNLESS NOTED OTHERWISE
USH	UNITED STATES HIGHWAY
T	UNDERGROUND TELEPHONE
TV	UNDERGROUND VIDEO
V	VALVE
V&B	VALVE & BOX
VAR	VARIABLE
VER	VERTICAL
VC	VERTICAL CURVE
W	WEST
W/	WITH
W/O	WITHOUT
WD	WIDTH
WM	WATER MAIN
WS	WATER SURFACE
WTP	WATER TREATMENT PLANT
WTR	WATER
WWF	WELDED WIRE FABRIC
WWM	WOVEN WIRE MESH

PROJECT AND UTILITY CONTACTS

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
NORTHEAST REGION HEADQUARTERS
ATTN: MATT SCHAEVE
2984 SHAWANO AVENUE
P.O. BOX 10488
GREEN BAY, WI 54307-0448
PHONE: 920-662-5472
EMAIL: matthew.schaeve@wisconsin.gov

WIS. DEPT OF TRANSPORTATION
NORTHEAST REGION - PRIMARY CONTACT
ATTN: BRIAN HAEN-PROJECT MANAGER
944 VANDERPERRON WAY
PO BOX 28080
GREEN BAY, WI 54304
PHONE:920-366-4788
EMAIL:Brian.Haen@dot.wi.gov

AYRES ASSOCIATES
ATTN: TROY ROBILLARD
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ASHWAUBENON, WI 54115
PHONE: 920-498-1200
EMAIL: robillardt@ayresassociates.com

ATC TRANSMISSION COMPANY
ANTHONY MARCINIAK
W234 N2000 RIDGEVIEW PARKWAY COURT
WAUKESHA, WI. 53188-1000
PHONE: 262-506-6814
EMAIL: amarciniak@atcllc.com

McLEOD USA TELECOMMUNICATION SERVICES, INC.-
COMMUNICATION LINE
NATHAN BECKER
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BROOKFIELD, WI 53005
PHONE: 262-792-7938
EMAIL: Nathan.becker@windstream.com

COMCAST
ROBERT PERONTO
1614 WASHINGTON ST.
PO BOX 429
MANITOWOC, WI 54221
EMAIL: Robert_Peronto@cable.comcast.com

AT&T WISCONSIN-COMMUNICATION LINE
JOSEPH KASSAB
221 WEST WASHINGTON ST.
APPLETON, WI 54911-4742
PHONE: 920-735-4742
EMAIL: Jk572k@att.com

CITY OF MANITOWOC-SEWER
GREG MINIKEL
900 QUAY STREET
MANITOWOC, WI 54220-4553
PHONE: 920-686-6910
E-MAIL: gminikel@manitowoc.org

CITY OF MANITOWOC-DEPARTMENT OF PUBLIC WORKS
RANDY JUNK
900 QUAY STREET
MANITOWOC, WI 54220-4543
PHONE: 920-686-6550
E-MAIL: rjunk@manitowoc.org

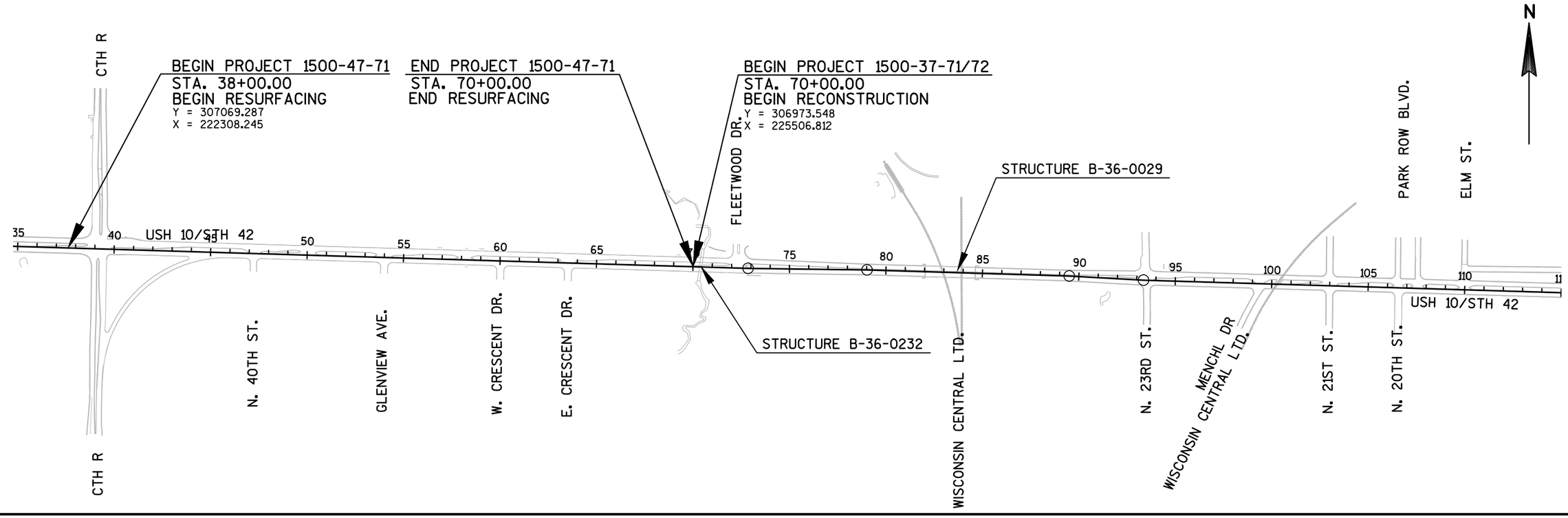
MANITOWOC PUBLIC UTILITIES - WATER
ATTN: ROB MICHAELSON
1303 S. 8TH STREET
PO BOX 1090
MANITOWOC, WI 54221-1090
PHONE: 920-686-4354
EMAIL: rmichaelson@mpu.org

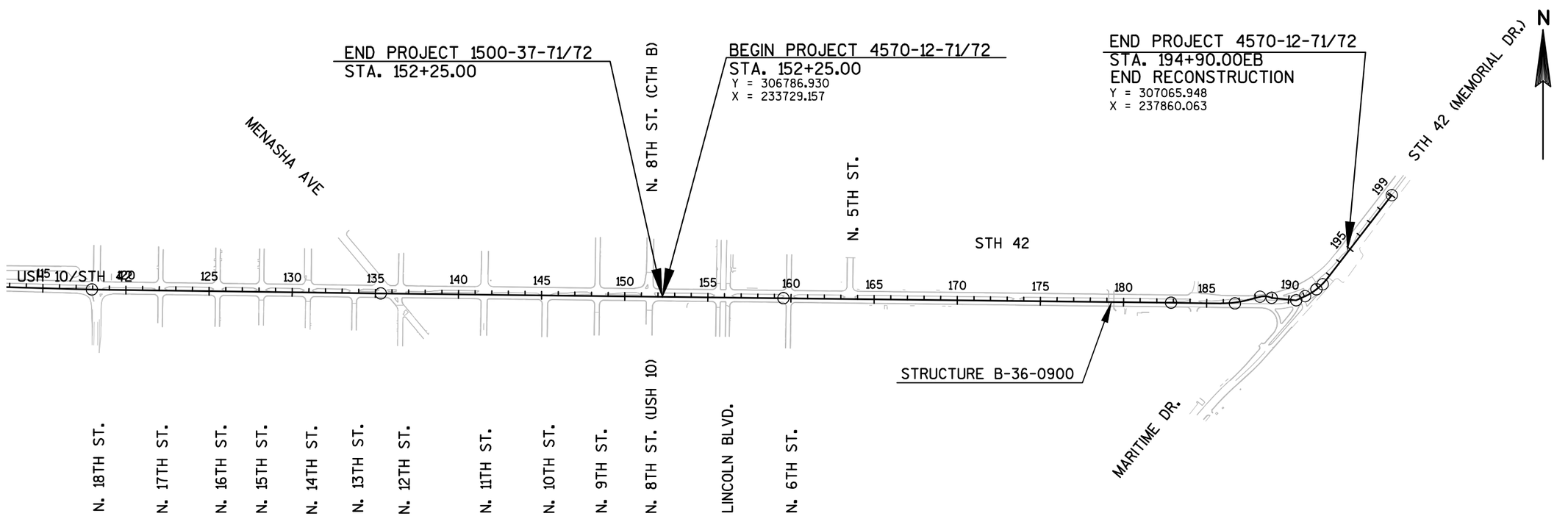
MANITOWOC PUBLIC UTILITIES - COMMUNICATIONS LINE/ELECTRICITY
ATTN: STEVE BACALZO
1303 S. 8TH STREET
PO BOX 1090
MANITOWOC, WI 54221-1090
PHONE: 920-683-4310
CELL: 920-374-1059
EMAIL: sbacalzo@mpu.org

MANITOWOC COUNTY AIRPORT-AIRPORT FACILITY
3500 STATE HWY 310
MANITOWOC, WI 54220
PHONE: 920-683-4366

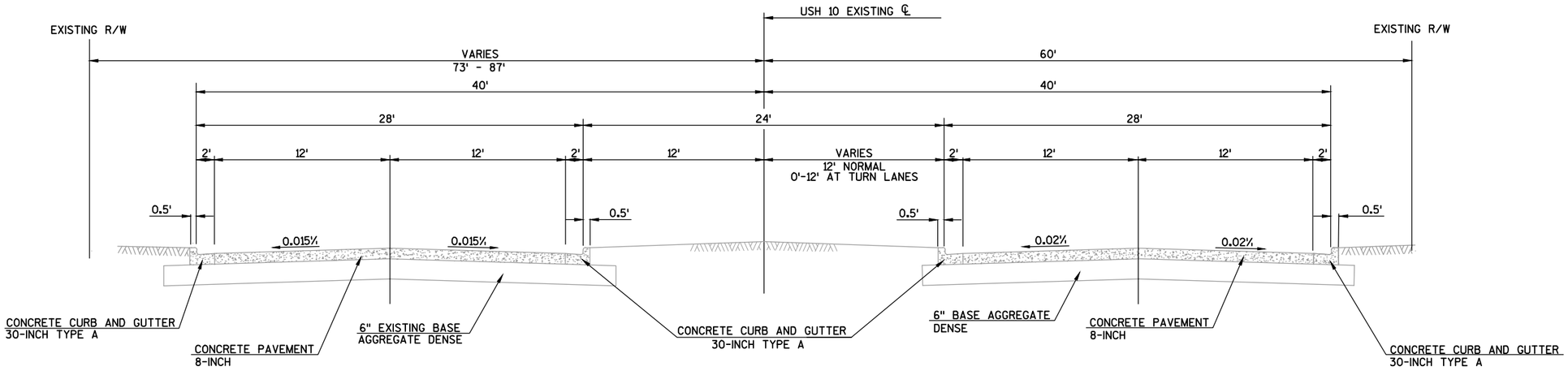
WISCONSIN PUBLIC SERVICE CORPORATION - GAS/PETROLEUM
LORI BUTRY
700 N. ADAMS STREET
PO BOX 19001
GREEN BAY, WI 54307-9001
PHONE: 920-433-1360
EMAIL: LAButry@integrysgroup.com

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com



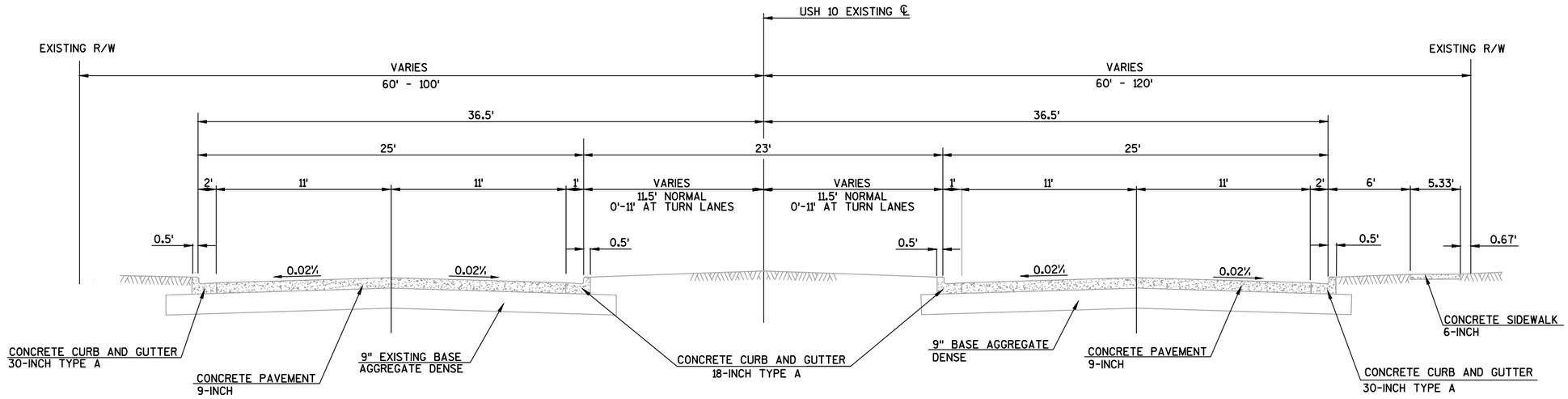


PROJECT NO: 1500-37/47-71/72, 4570-12-71/72	HWY: USH 10/STH 42	COUNTY: MANITOWOC	PROJECT OVERVIEW	SHEET 4	E



EXISTING TYPICAL SECTION FOR USH 10

STA. 38+00-STA. 40+57

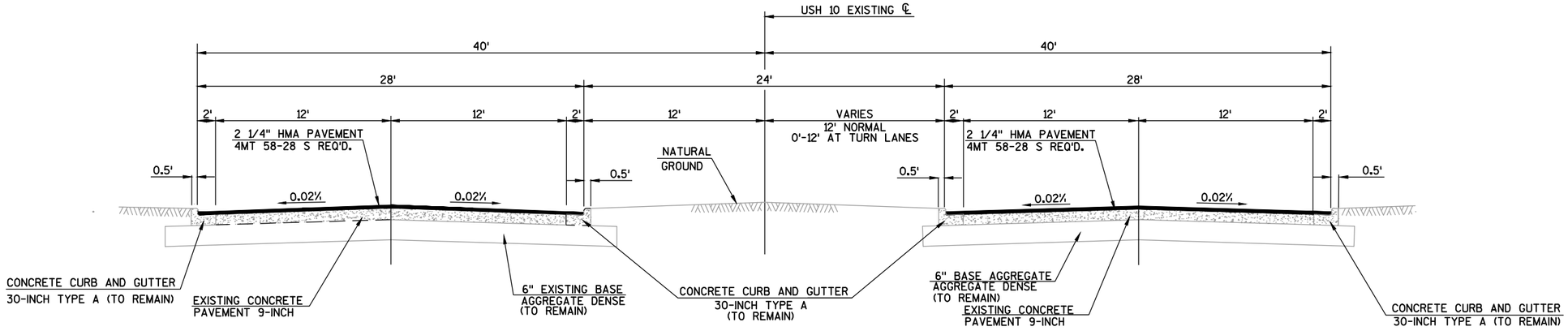


EXISTING TYPICAL SECTION FOR USH 10

STA. 40+57-STA. 70+00

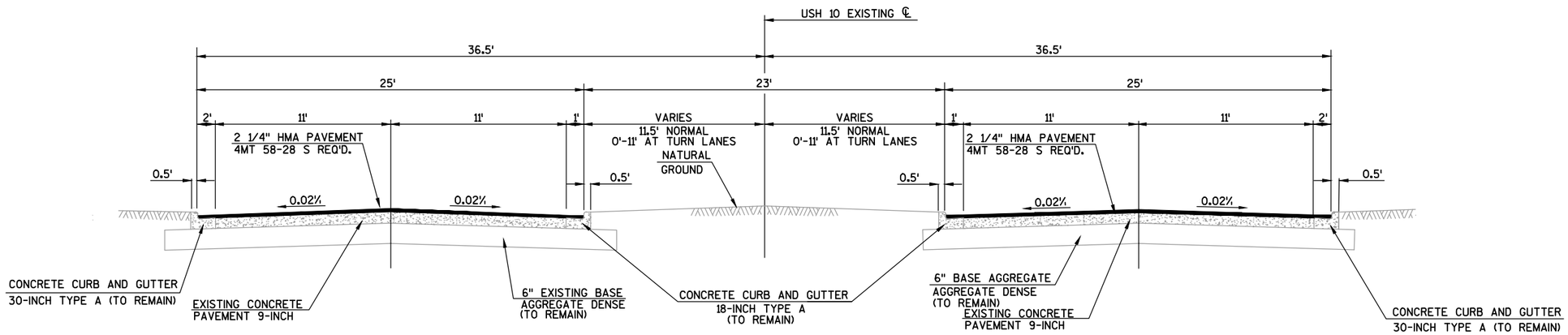
PROJECT NO: 1500-47-71	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTIONS	SHEET 5	E

2



TYPICAL FINISHED SECTION FOR USH 10

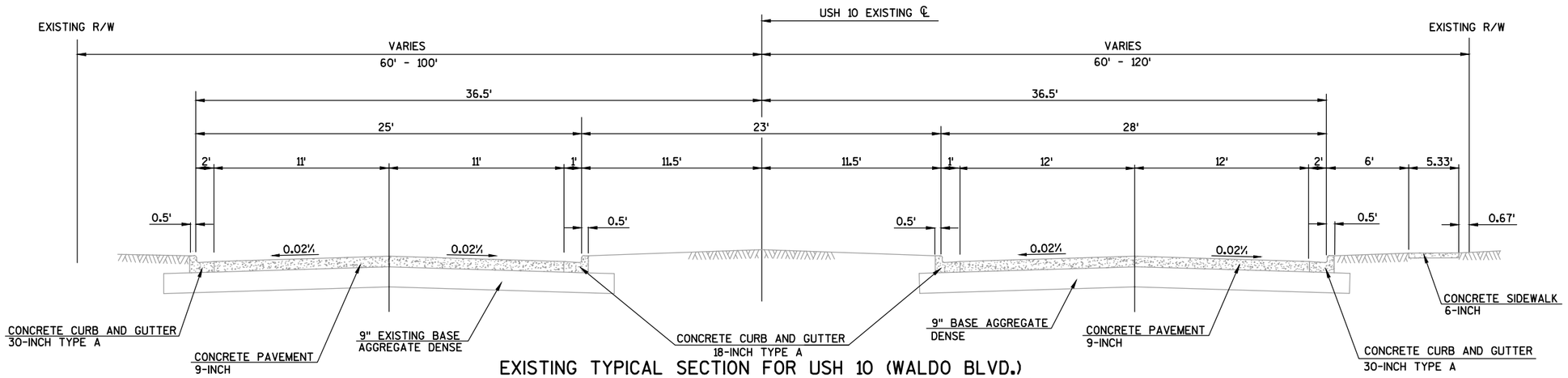
STA. 38+00 - STA. 40+57



TYPICAL FINISHED SECTION FOR USH 10

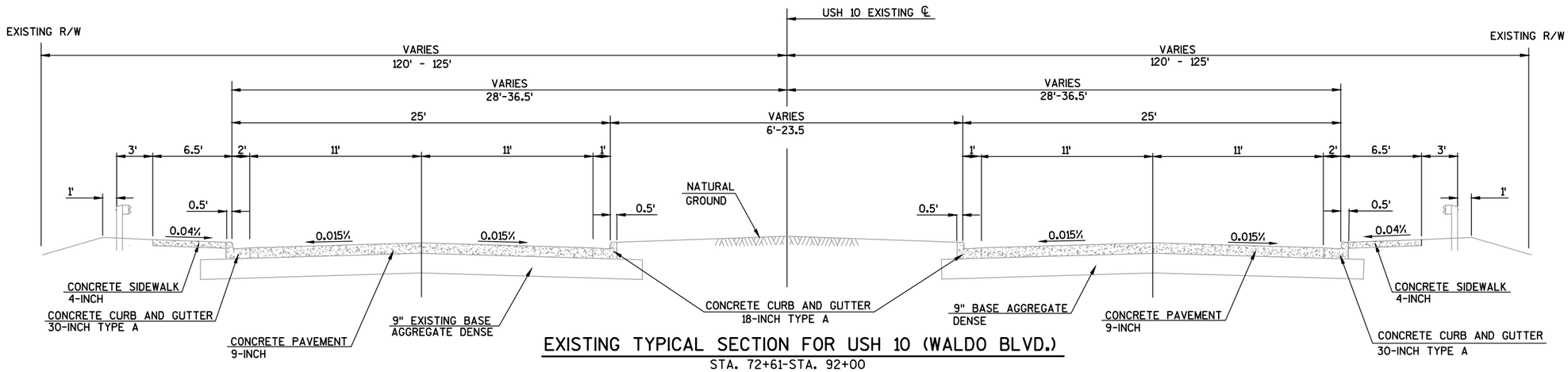
STA. 40+57-STA. 70+00

PROJECT NO: 1500-47-71	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTIONS	SHEET 6	E



EXISTING TYPICAL SECTION FOR USH 10 (WALDO BLVD.)

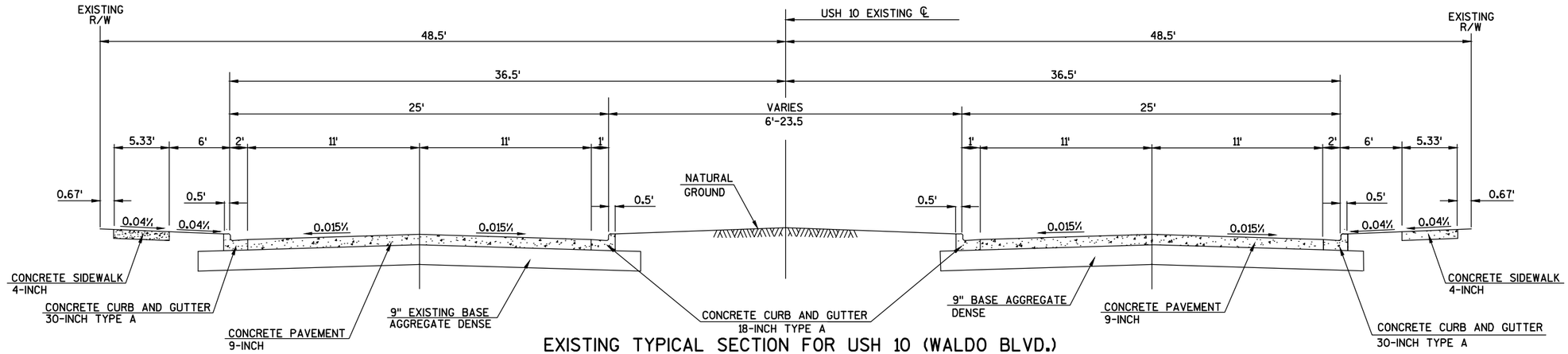
STA. 70+00-STA. 72+61



EXISTING TYPICAL SECTION FOR USH 10 (WALDO BLVD.)

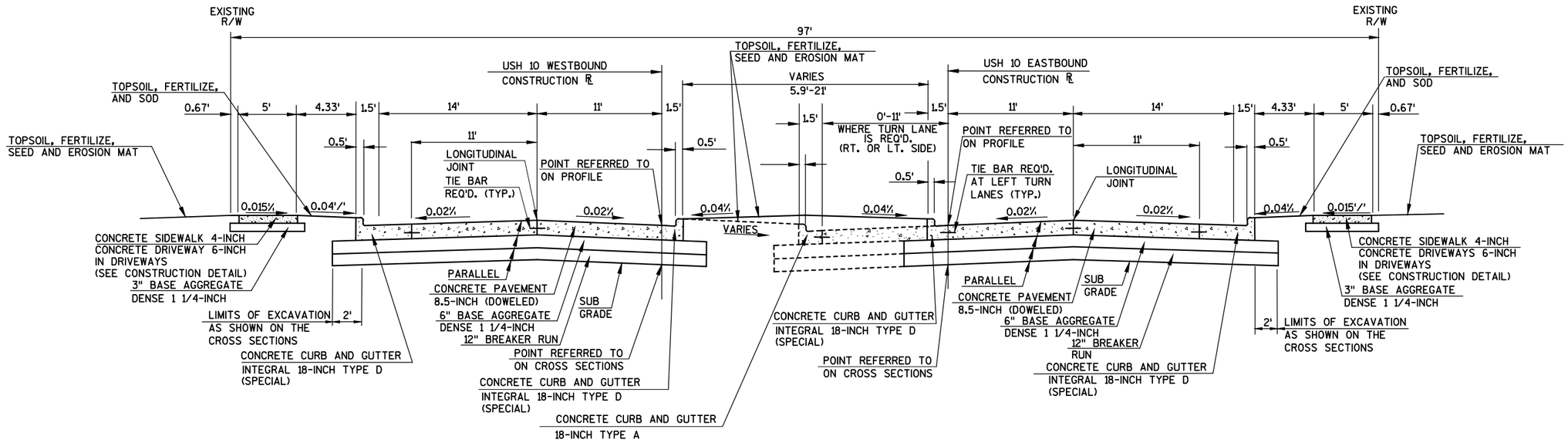
STA. 72+61-STA. 92+00

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTIONS	SHEET 7	E



EXISTING TYPICAL SECTION FOR USH 10 (WALDO BLVD.)

STA. 92+00-STA. 152+25.00

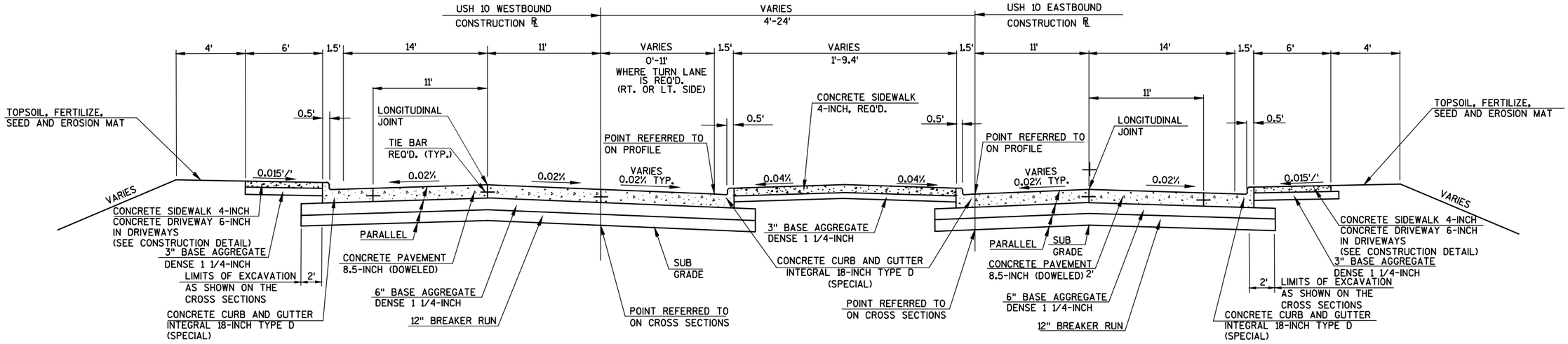


TYPICAL FINISHED CROSS SECTION FOR USH 10 (WALDO BOULEVARD)

STA. 70+00 - STA. 77+50
STA. 93+50 - STA. 152+25

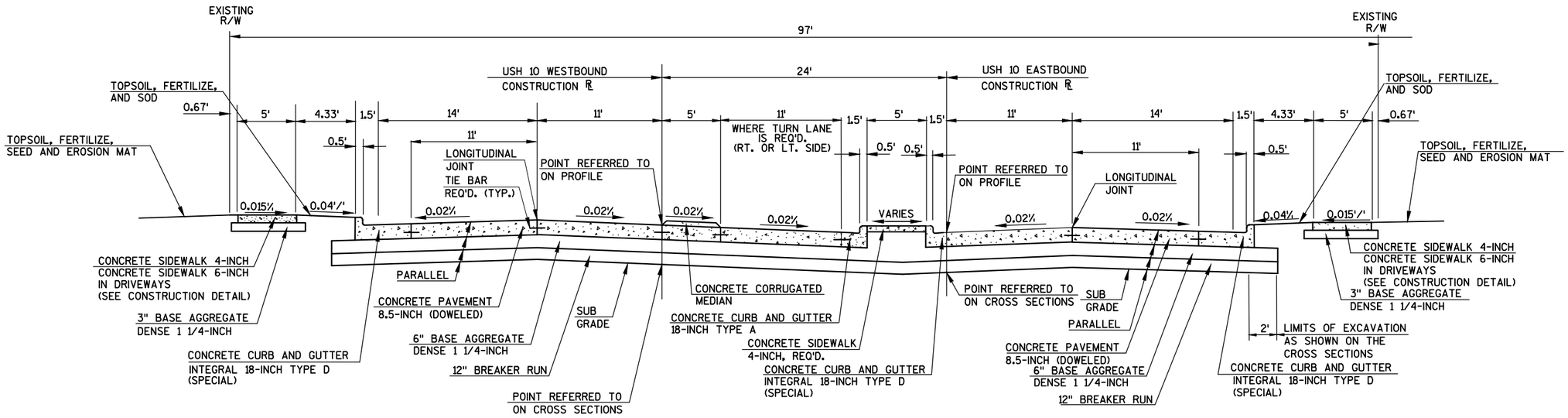
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTIONS	SHEET 8	E

2



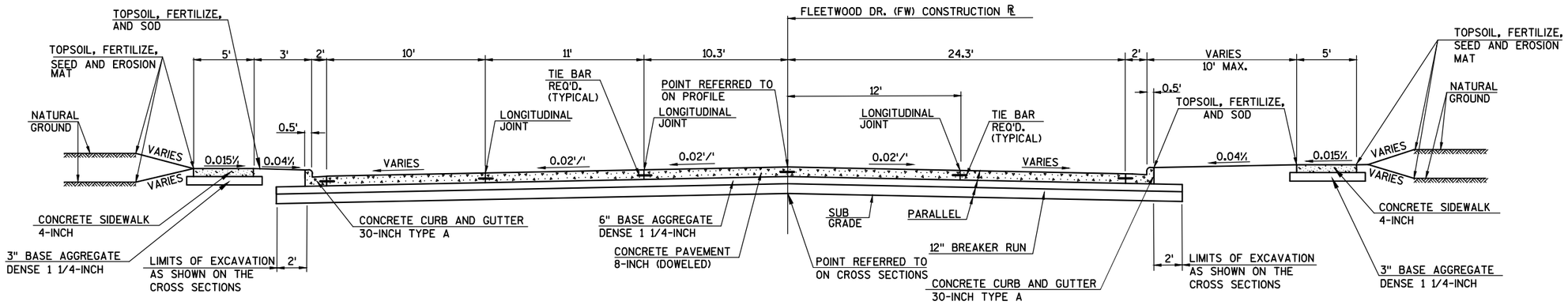
TYPICAL FINISHED CROSS SECTION FOR USH 10 (WALDO BOULEVARD)

STA. 77+50 - STA. 93+50



TYPICAL FINISHED CROSS SECTION FOR USH 10 (WALDO BOULEVARD) AT SLOTTED LEFT TURN LANES

PROJECT NO:1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTIONS	SHEET 9	E

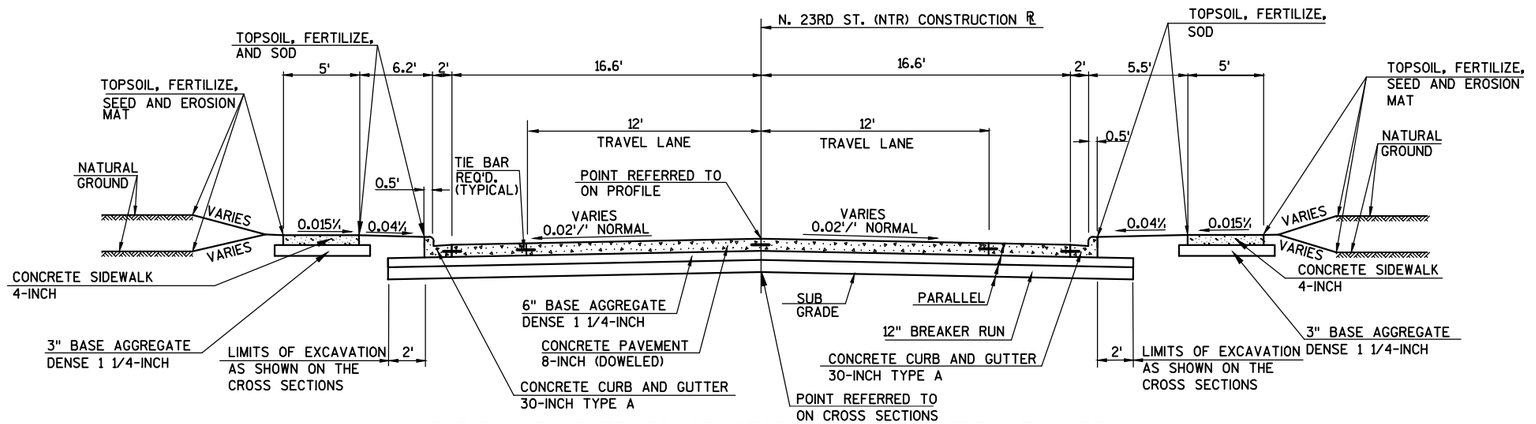


TYPICAL FINISHED CROSS SECTION FOR FLEETWOOD DRIVE (FW)

STA 10+25-STA. 10+75

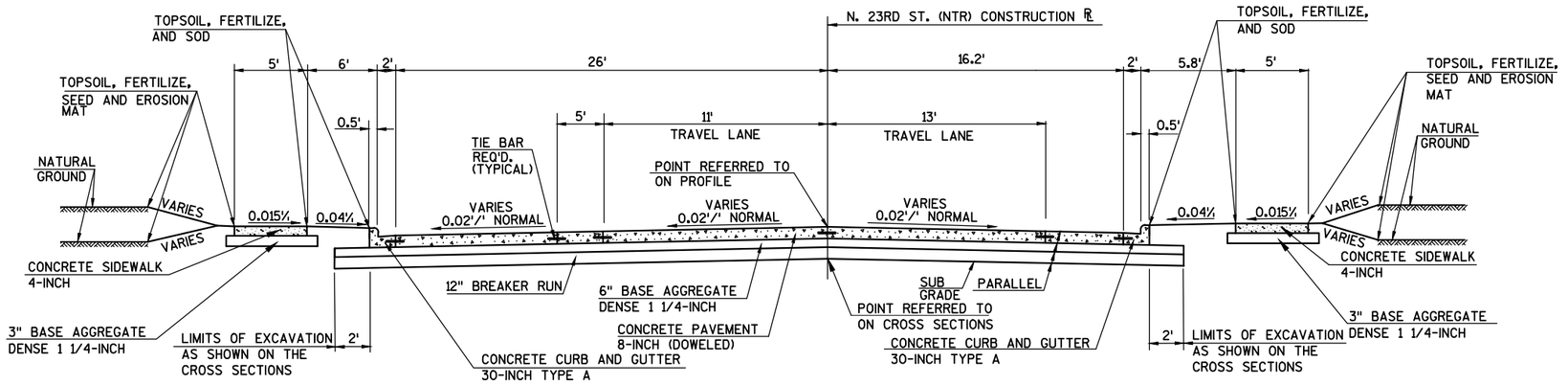
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTIONS	SHEET 10	E

2



TYPICAL FINISHED CROSS SECTION FOR N. 23RD ST. (NTR)

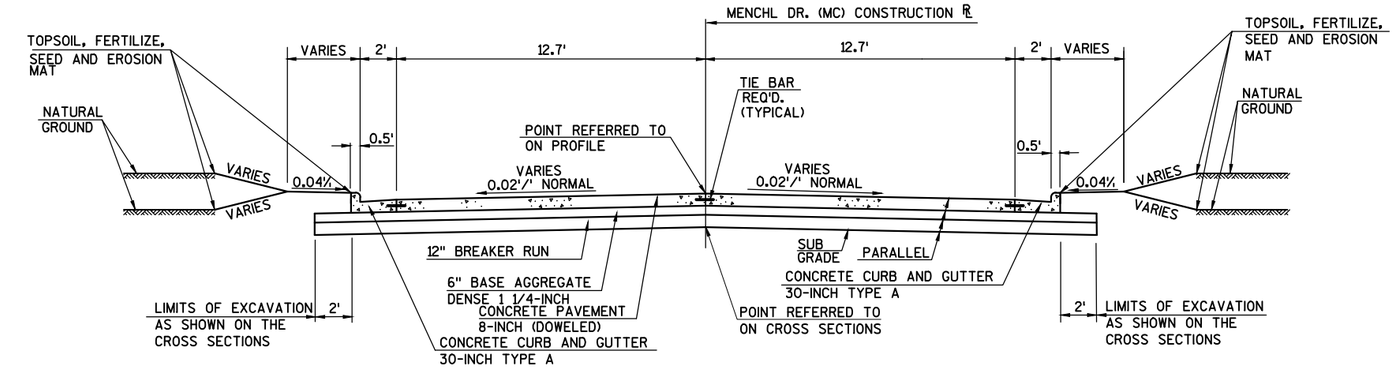
STA. 9+40-STA. 9+75



TYPICAL FINISHED CROSS SECTION FOR N. 23RD ST. (NTR)

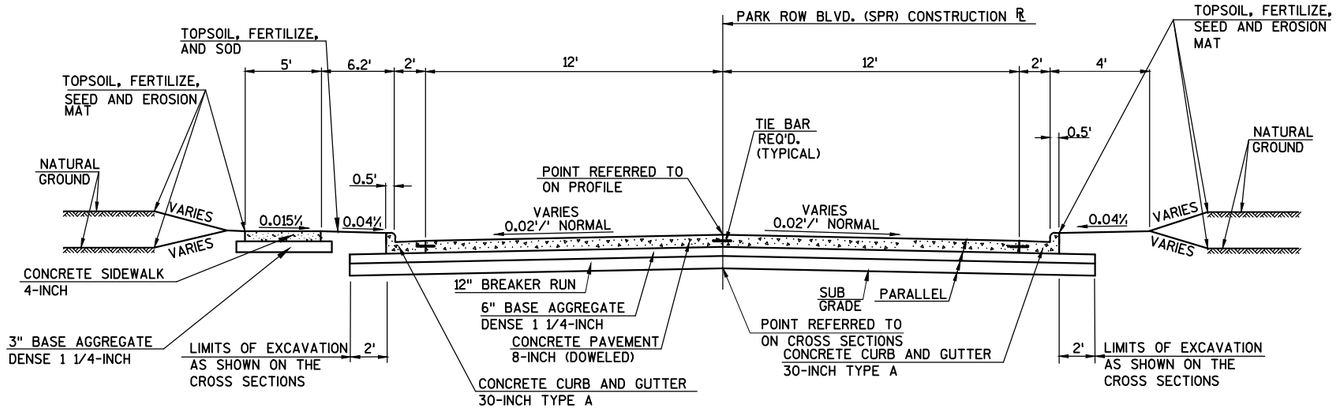
STA. 10+49-STA. 10+95

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTIONS	SHEET 11	E



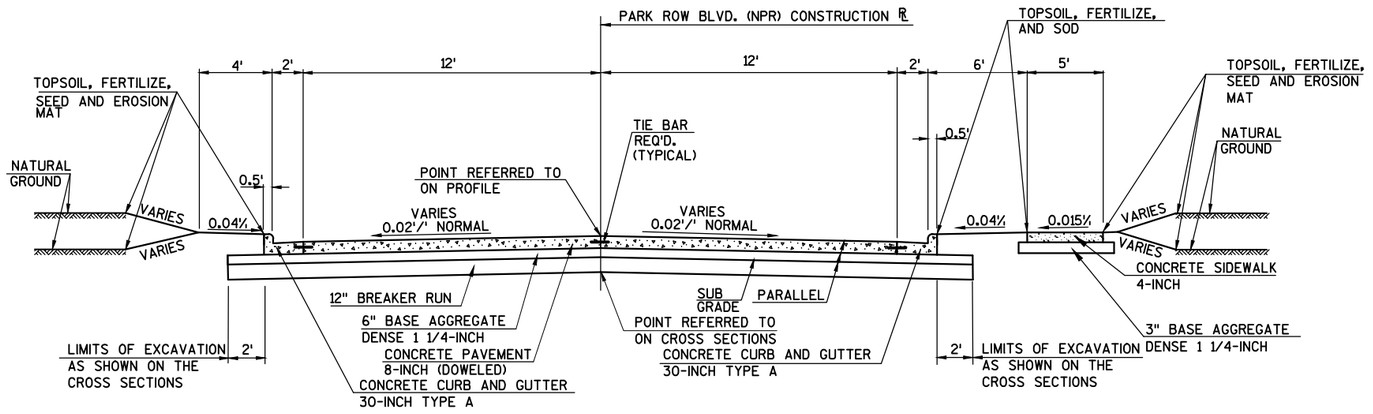
TYPICAL FINISHED CROSS SECTION FOR MENCHL DR. (MC)

STA. 9+10 -STA. 9+74



TYPICAL FINISHED CROSS SECTION FOR PARK ROW BLVD. (SPR)

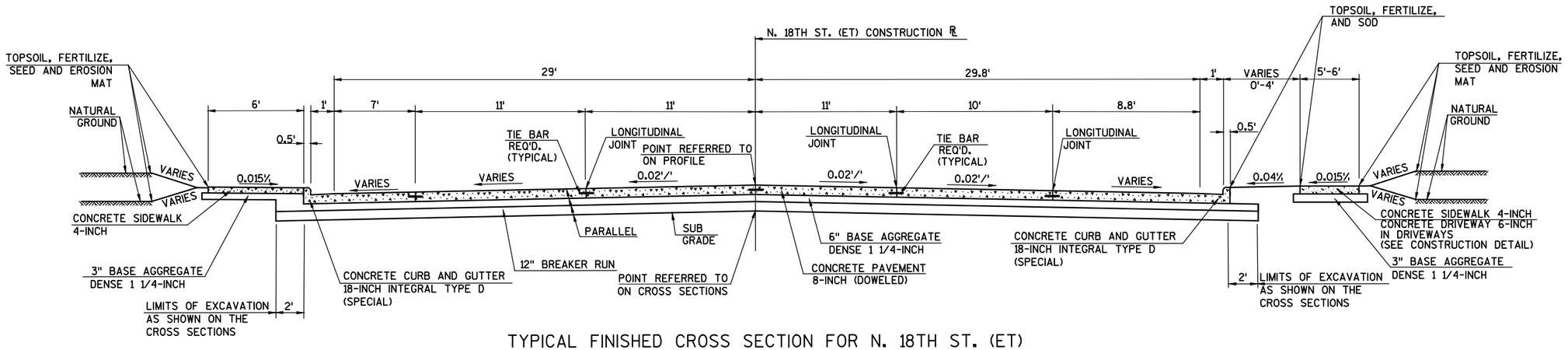
STA. 10+49.33-STA. 10+85



TYPICAL FINISHED CROSS SECTION FOR PARK ROW BLVD. (NPR)

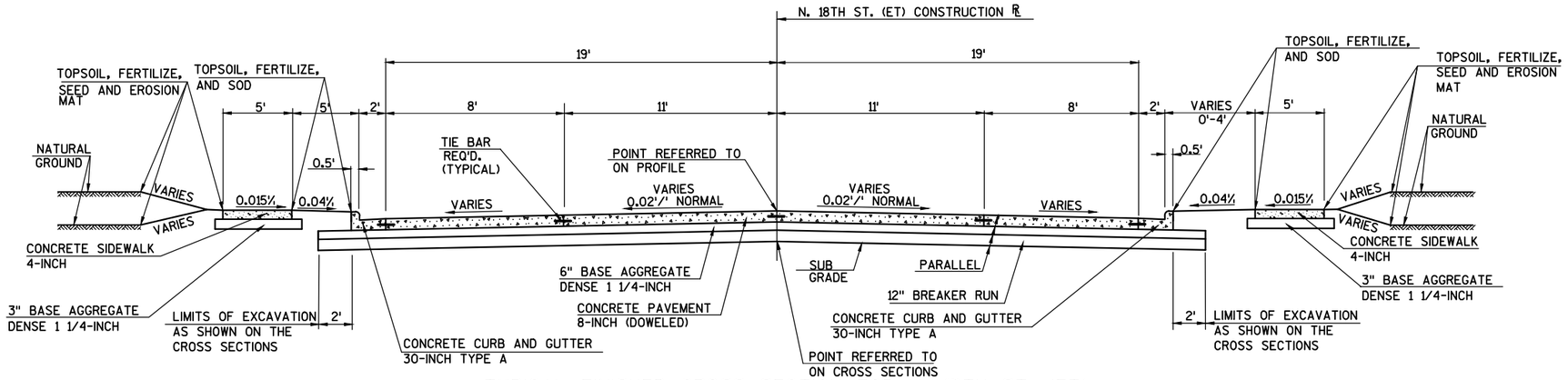
STA. 10+25-STA. 10+60

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTIONS	SHEET 12	E



TYPICAL FINISHED CROSS SECTION FOR N. 18TH ST. (ET)

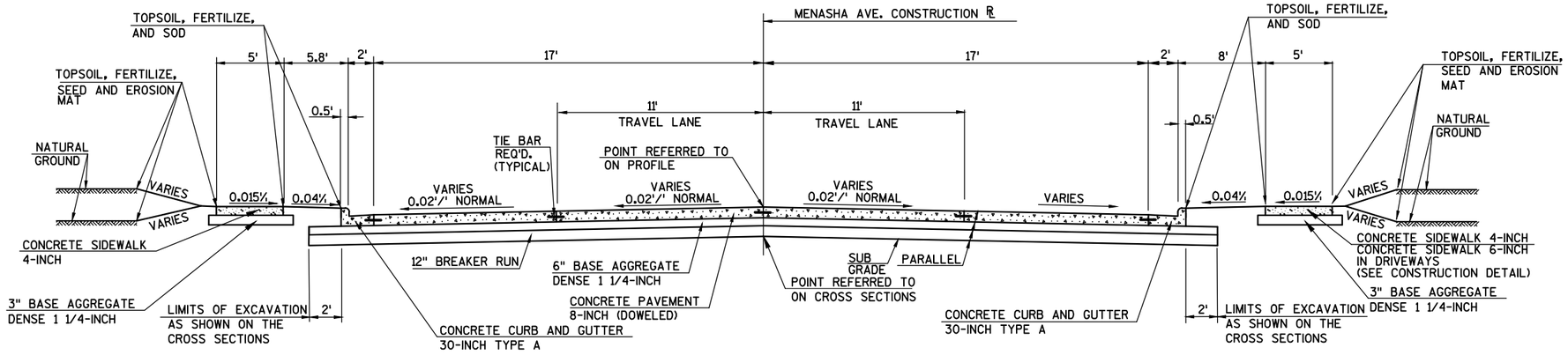
STA. 9+00-STA. 9+75



TYPICAL FINISHED CROSS SECTION FOR N. 18TH ST. (ET)

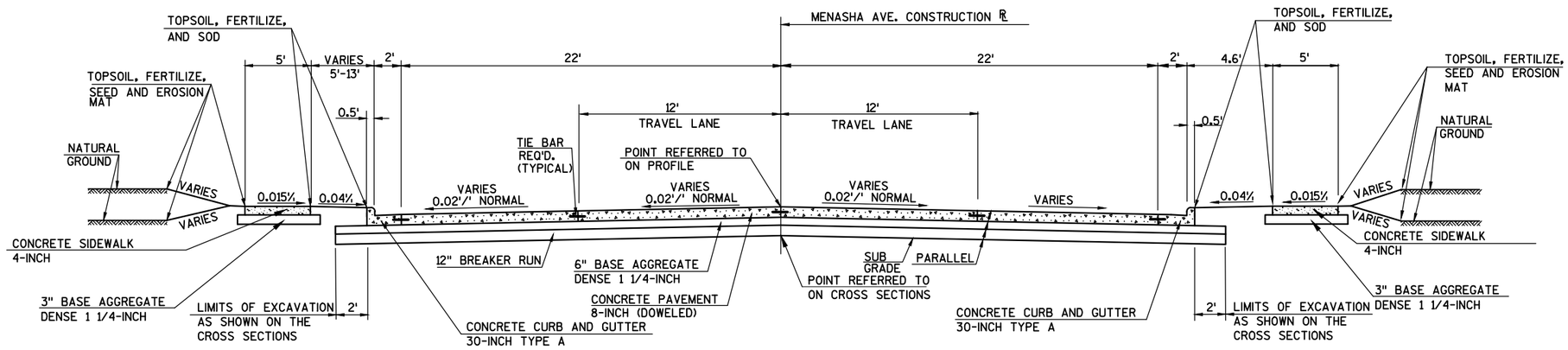
STA. 10+49-STA. 10+90

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTIONS	SHEET 13	E



TYPICAL FINISHED CROSS SECTION FOR MENASHA AVE. (SMN)

STA. 8+90-STA. 9+86

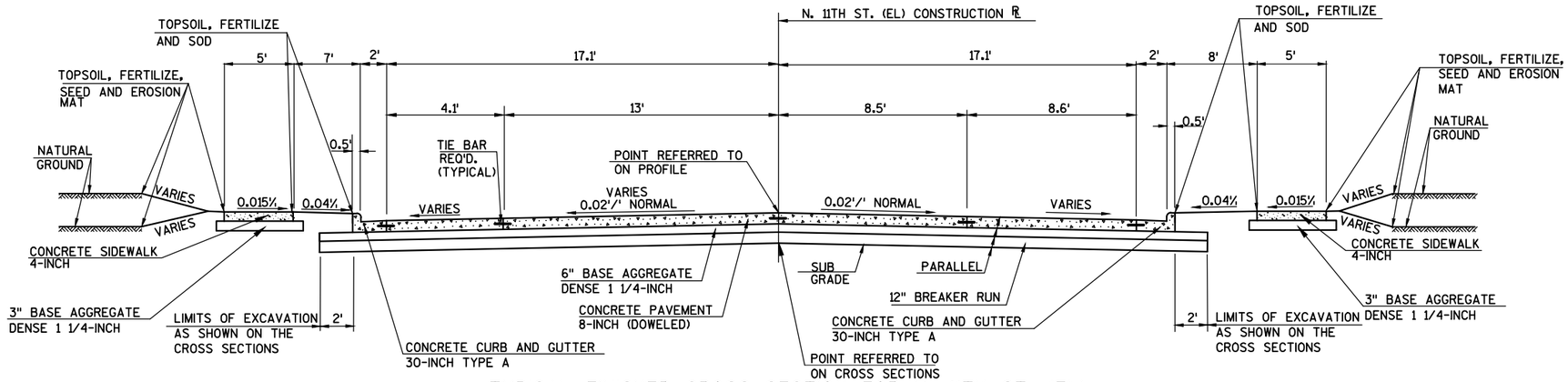


TYPICAL FINISHED CROSS SECTION FOR MENASHA AVE. (NMN)

STA. 10+25-STA. 12+10.55

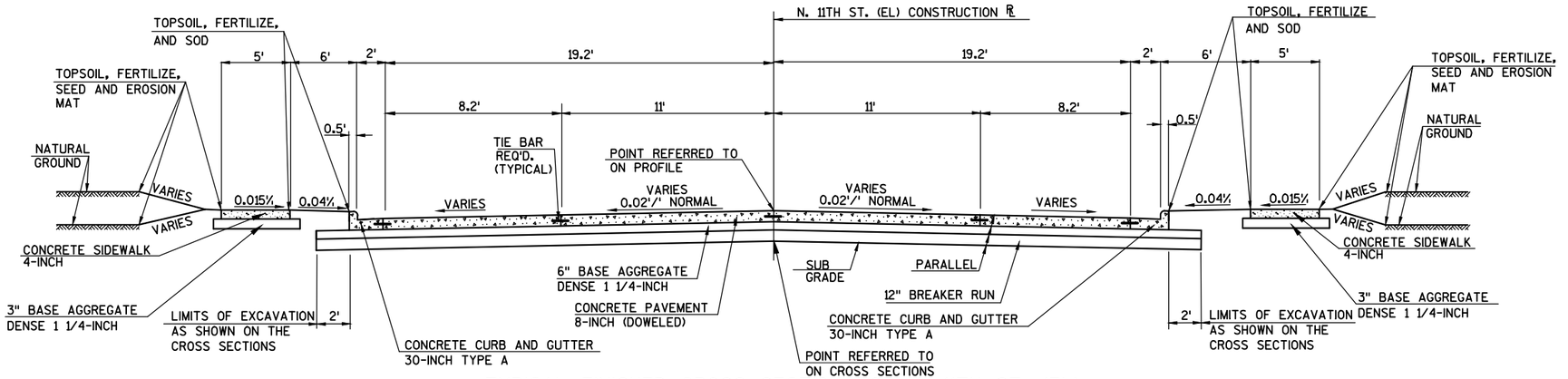
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTIONS	SHEET 14	E

2



TYPICAL FINISHED CROSS SECTION FOR N. 11TH ST. (EL)

STA. 9+35-STA. 9+75

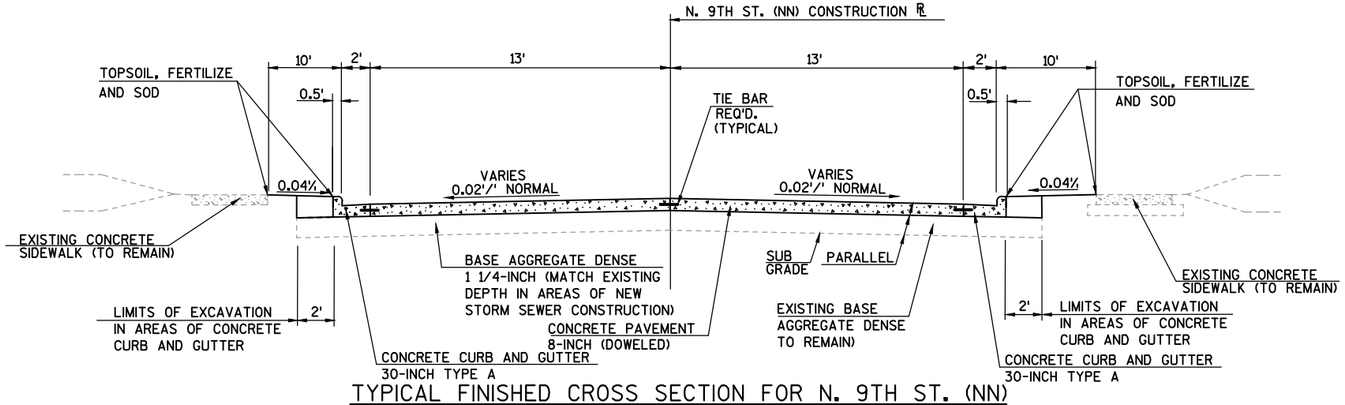


TYPICAL FINISHED CROSS SECTION FOR N. 11TH ST. (EL)

STA. 10+49-STA. 11+00

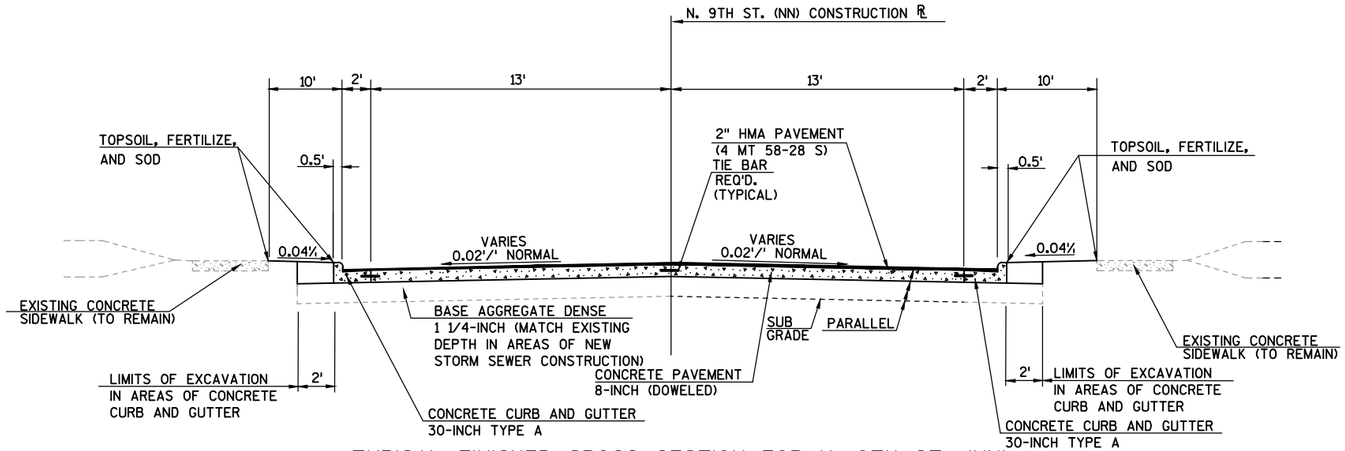
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTIONS	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_020309_TS.DWG PLOT DATE : 4/11/2018 2:19 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42



TYPICAL FINISHED CROSS SECTION FOR N. 9TH ST. (NN)

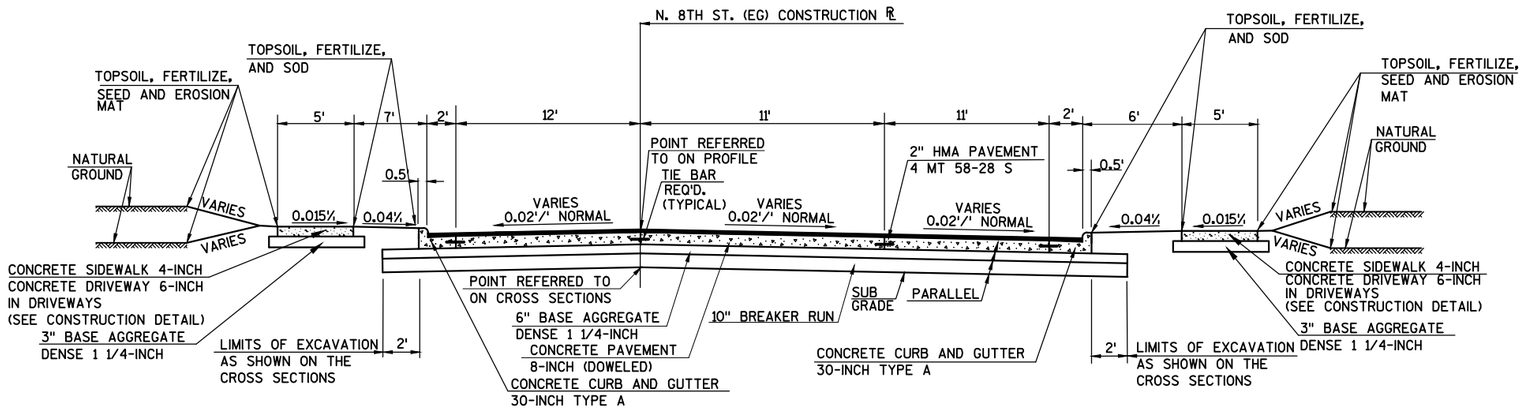
STA. 11+25 - STA. 12+65 N. 9TH ST. (NN)



TYPICAL FINISHED CROSS SECTION FOR N. 9TH ST. (NN)

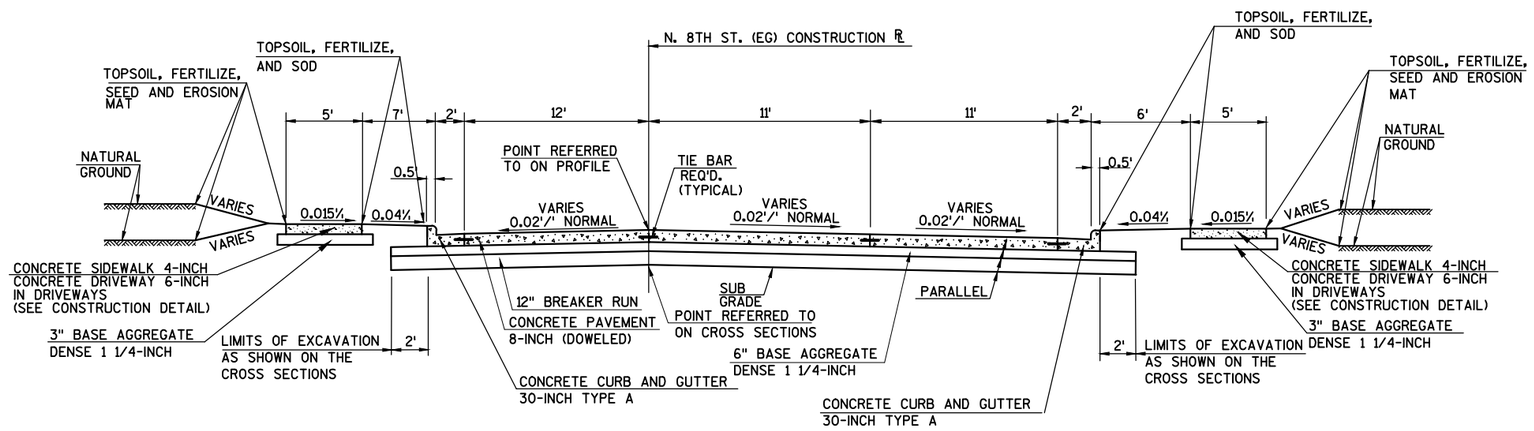
STA. 12+65 - STA. 12+70 N. 9TH ST. (NN)

PROJECT NO:1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTIONS	SHEET 16	E



TYPICAL FINISHED CROSS SECTION FOR N. 8TH ST. (EG)

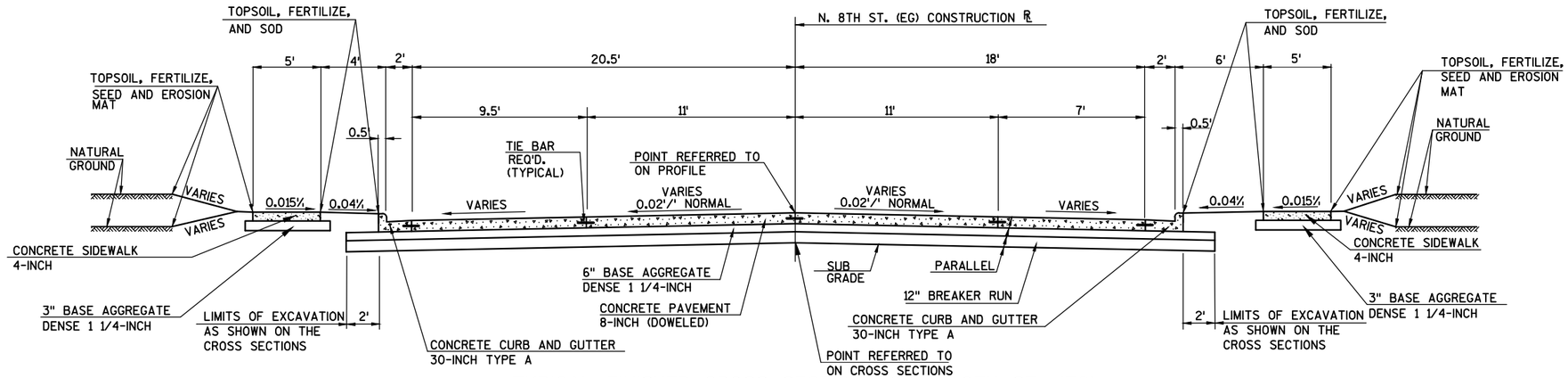
STA. 8+50-STA. 8+55



TYPICAL FINISHED CROSS SECTION FOR N. 8TH ST. (EG)

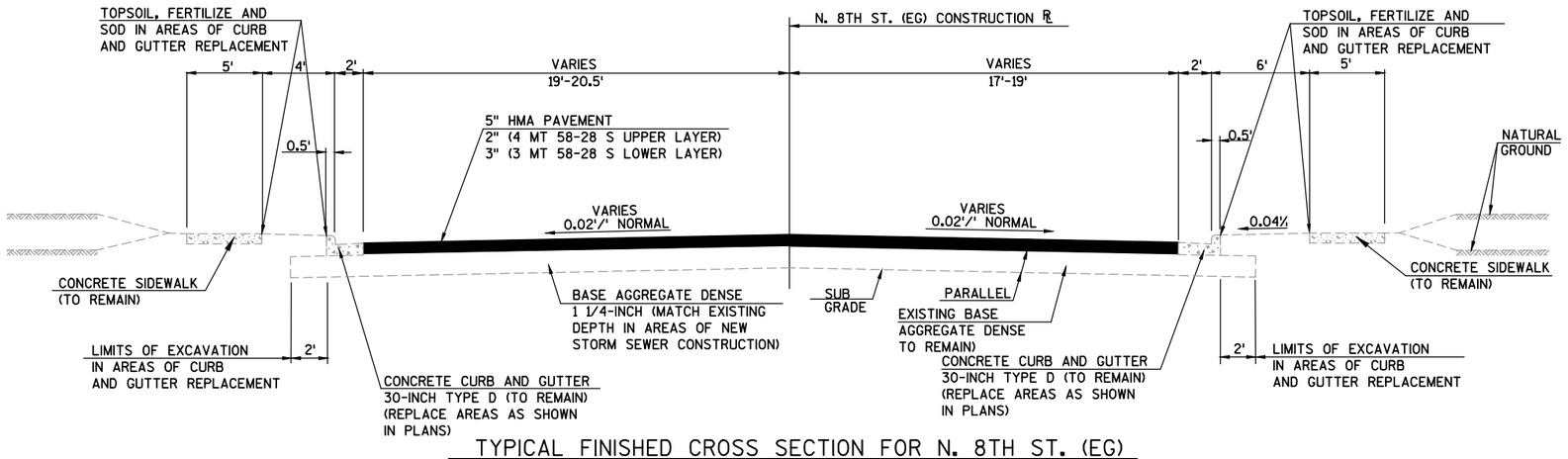
STA. 8+55-STA. 9+75

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTIONS	SHEET 17	E



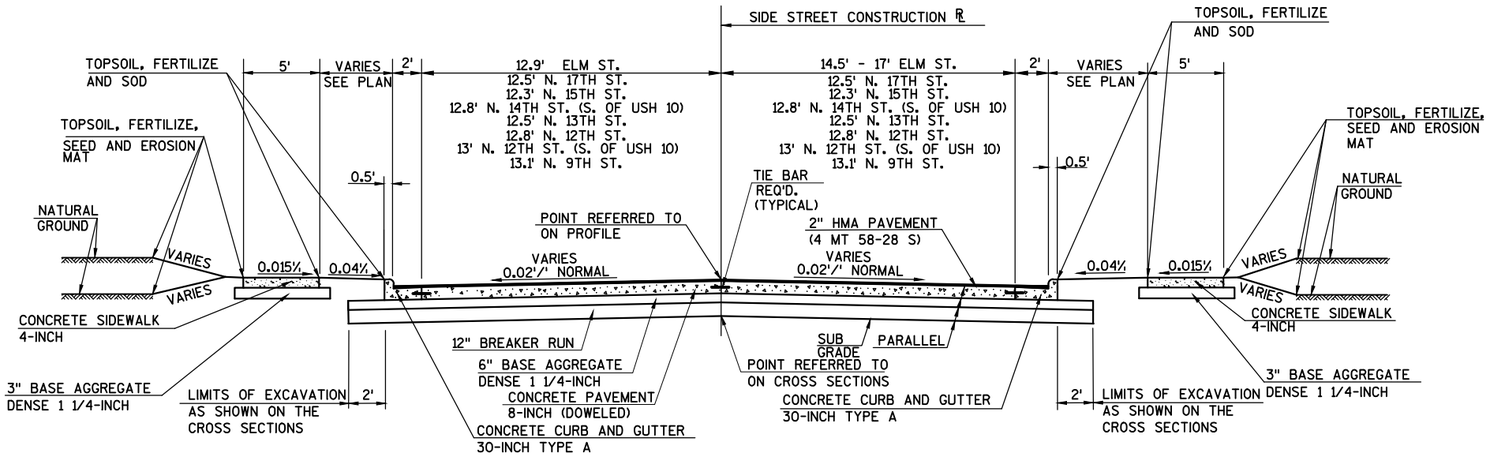
TYPICAL FINISHED CROSS SECTION FOR N. 8TH ST. (EG)

STA. 10+49.22-STA. 11+50



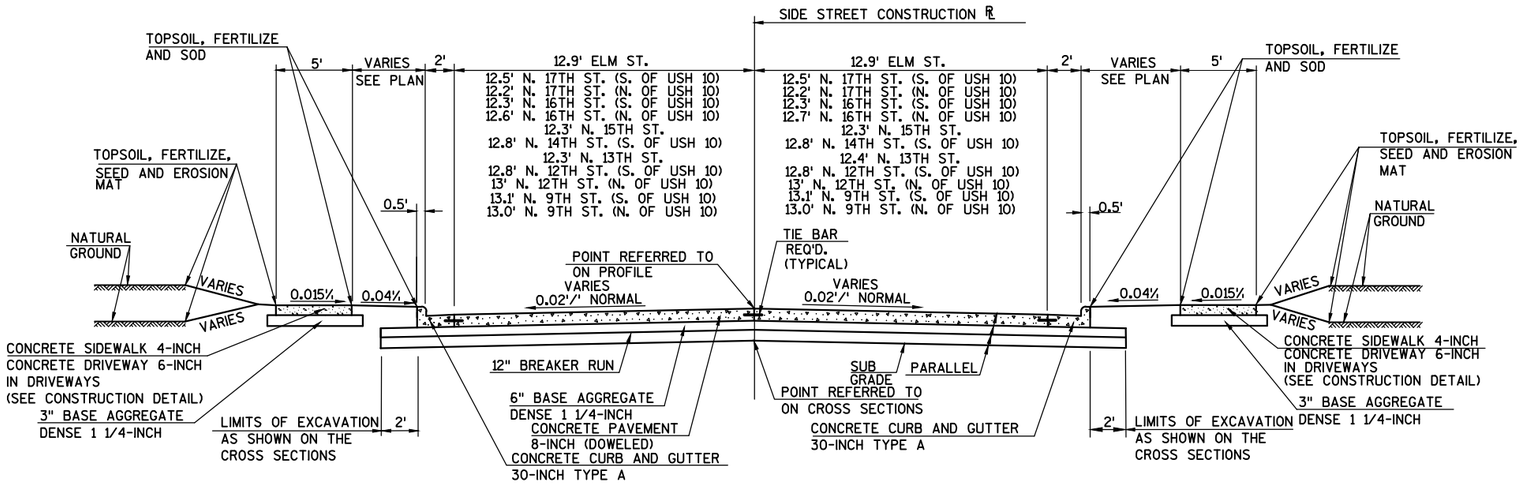
TYPICAL FINISHED CROSS SECTION FOR N. 8TH ST. (EG)

STA. 11+50-STA. 12+90



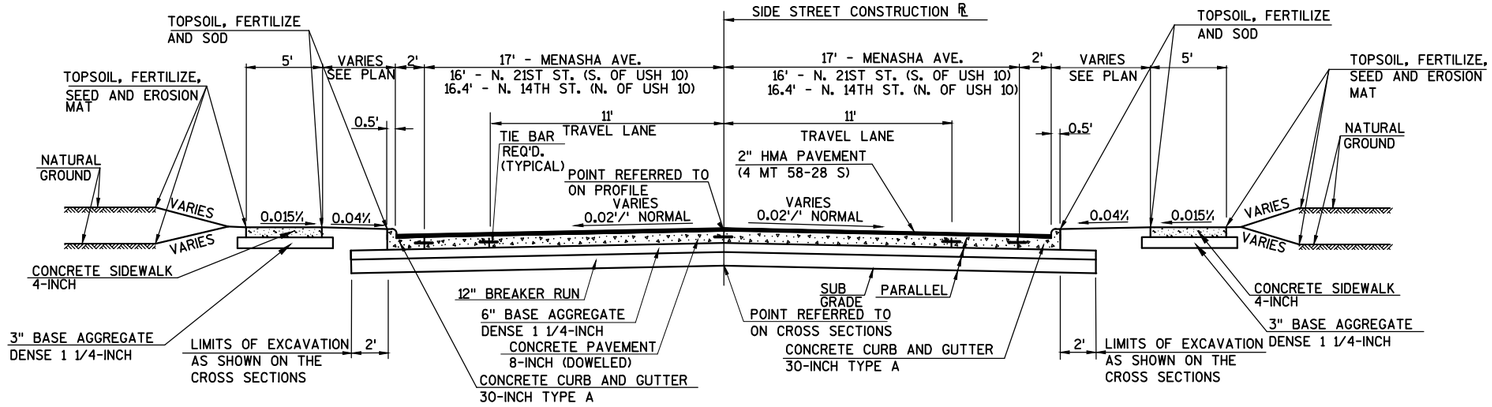
TYPICAL FINISHED CROSS SECTION FOR ASPHALT OVERLAYED SIDE STREETS

STA. 10+60-STA. 10+65 ELM ST. (ELM)
STA. 9+35-STA. 9+40 N. 17TH ST. (SV)
STA. 9+35-STA. 9+40 N. 15TH AVE. (FT)
STA. 9+30-STA. 9+35 N. 14TH ST. (FO)
STA. 9+35-STA. 9+40 N. 13TH ST. (TH)
STA. 8+15-STA. 8+20 N. 12TH ST. (TW)
STA. 10+80-STA. 10+85 N. 12TH ST. (TW)
STA. 9+00-STA. 9+05 N. 9TH ST. (NN)



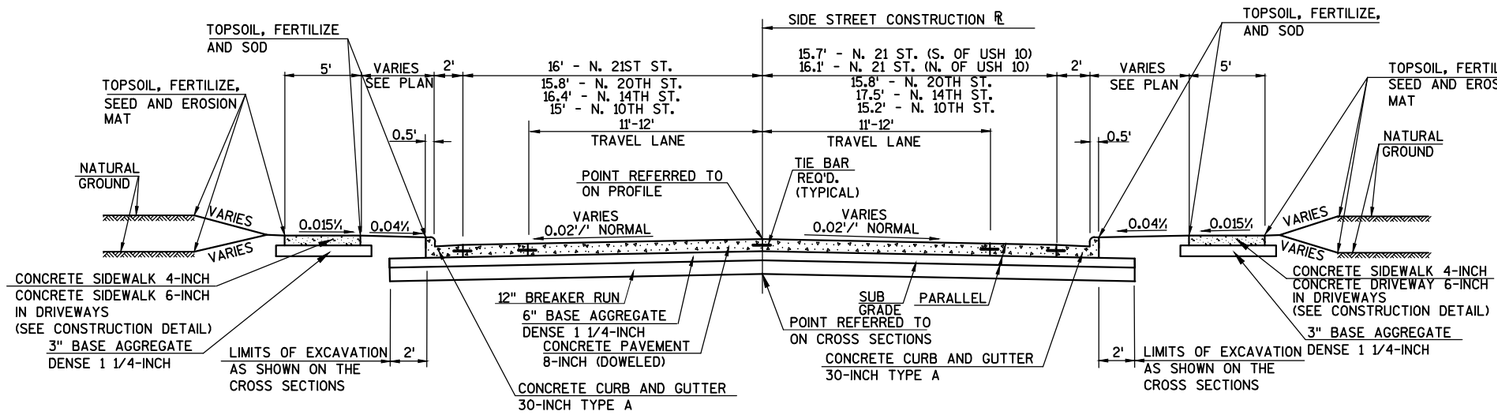
TYPICAL FINISHED CROSS SECTION FOR CONCRETE SURFACED SIDE STREETS

STA. 10+25 - STA. 10+60 ELM ST. (ELM)
STA. 9+40 - STA. 9+75 N. 17TH ST. (SV)
STA. 10+49 - STA. 10+85 N. 17TH ST. (SV)
STA. 9+35 - STA. 9+75 N. 16TH ST. (ST)
STA. 10+49 - STA. 10+85 N. 16TH ST. (ST)
STA. 9+40 - STA. 9+75 N. 15TH ST. (FT)
STA. 10+49 - STA. 11+00 N. 15TH ST. (FT)
STA. 9+40 - STA. 9+75 N. 14TH ST. (FO)
STA. 9+40 - STA. 9+75 N. 13TH ST. (TH)
STA. 8+20 - STA. 9+75 N. 12TH ST. (TW)
STA. 10+49 - STA. 10+80 N. 12TH ST. (TW)
STA. 9+05 - STA. 9+75 N. 9TH ST. (NN)
STA. 10+49 - STA. 11+25 N. 9TH ST. (NN)



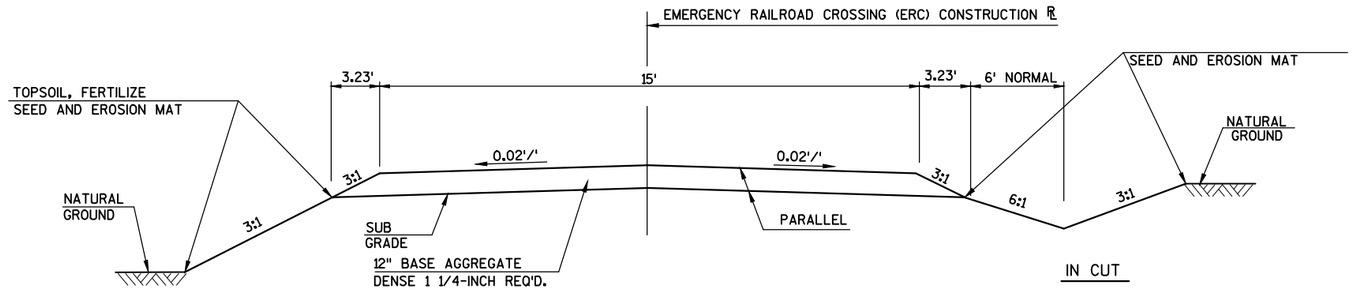
TYPICAL FINISHED CROSS SECTION FOR ASPHALT OVERLAYED SIDE STREETS

STA. 8+85-STA. 8+90 S. MENASHA AVE. (SMN)
STA. 9+35-STA. 9+45 N. 21ST ST. (TF)
STA. 10+80-STA. 10+85 N. 14TH ST. (FO)



TYPICAL FINISHED CROSS SECTION FOR CONCRETE SURFACED SIDE STREETS

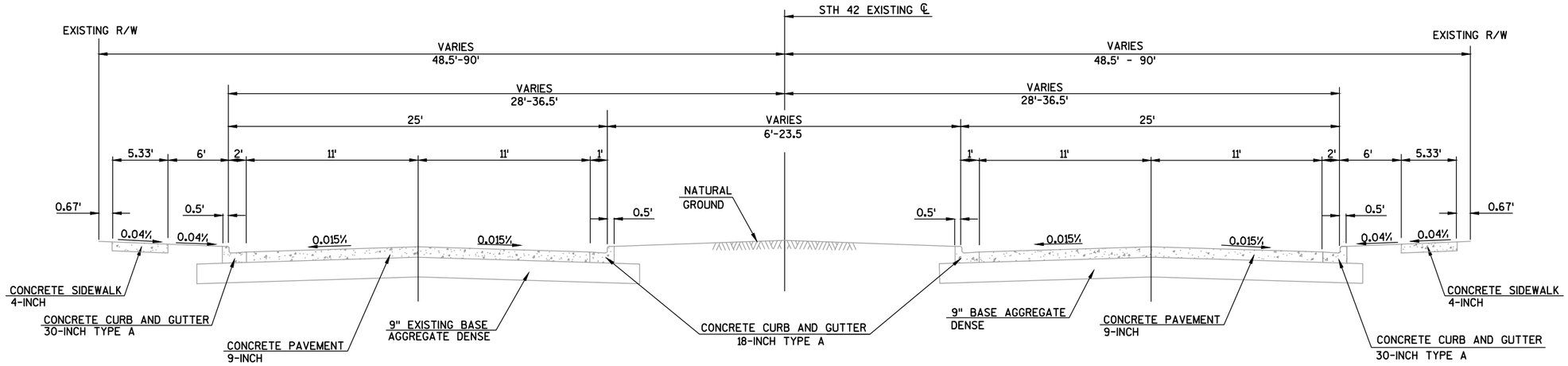
STA. 9+45 - STA. 9+75 N. 21ST ST. (TF)
STA. 10+49 - STA. 11+00 N. 21ST ST. (TF)
STA. 9+40 - STA. 9+75 N. 20TH ST. (SPR)
STA. 10+49 - STA. 10+80 N. 14TH ST. (FO)
STA. 9+35 - STA. 9+75 N. 10TH ST. (TN)



TYPICAL CROSS SECTION FOR EMERGENCY RAILROAD CROSSING

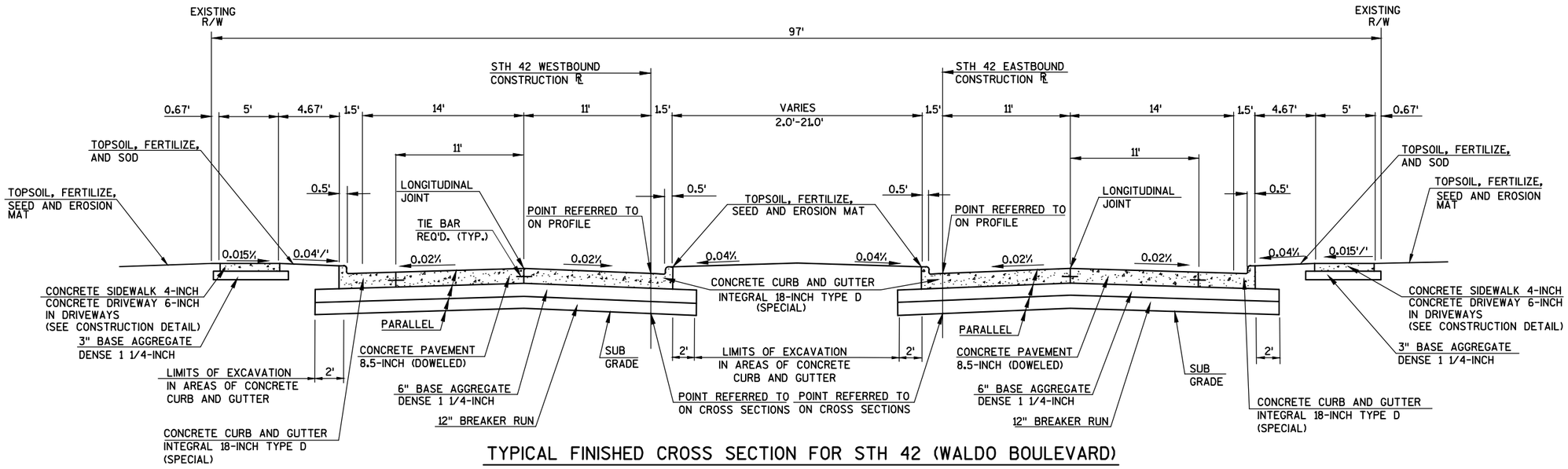
STA. 10+37 - STA. 11+45

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	TYPICAL SECTIONS	SHEET 20	E



EXISTING TYPICAL SECTION FOR STH 42 (WALDO BLVD.)

STA. 152+25-STA. 196+50



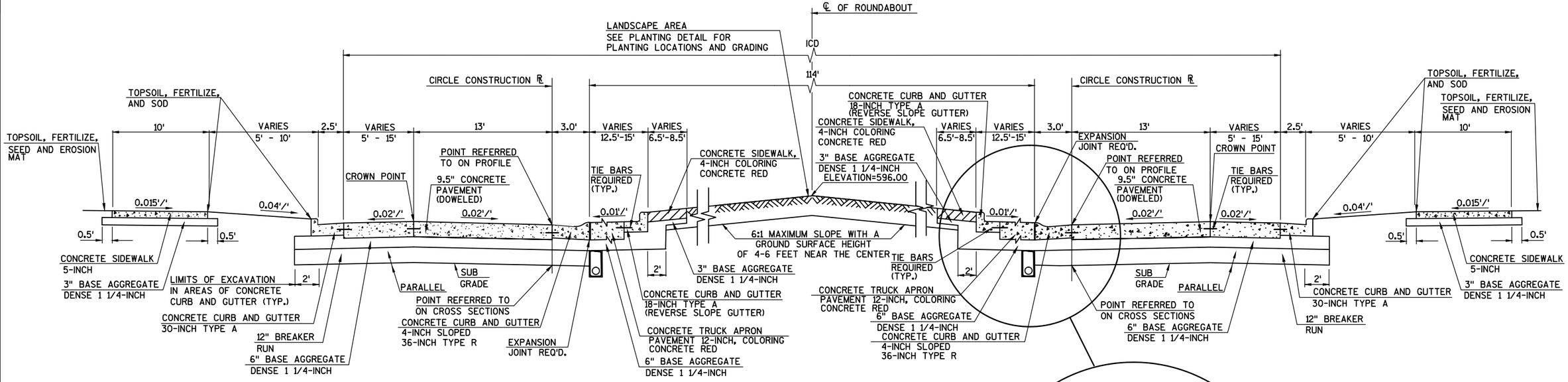
TYPICAL FINISHED CROSS SECTION FOR STH 42 (WALDO BOULEVARD)

STA. 152+25.00 - STA. 185+87.41

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	TYPICAL SECTIONS	SHEET 21	E

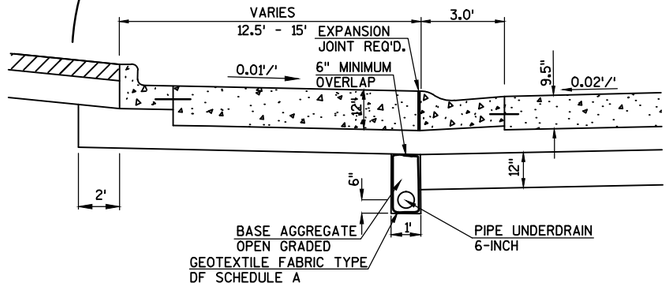
FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_020301_TS.DWG PLOT DATE : 4/11/2018 2:20 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:200 FT

2



TYPICAL FINISHED SECTION FOR STH 42/MARITIME DR.

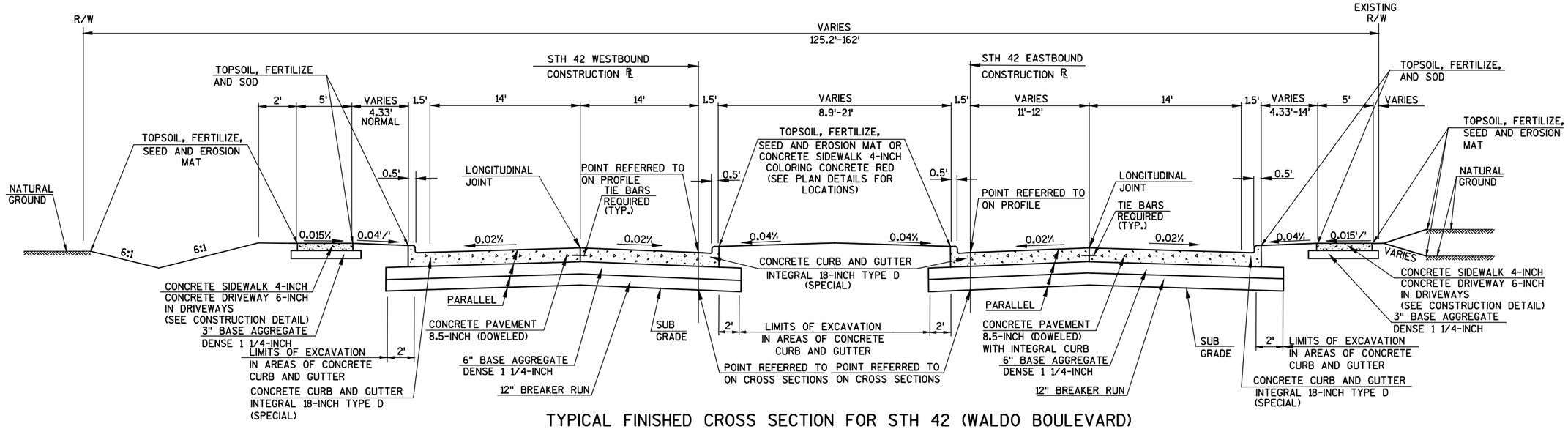
ROUNDABOUT DETAIL



TRUCK APRON (TYPICAL)

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	TYPICAL SECTIONS	SHEET	E

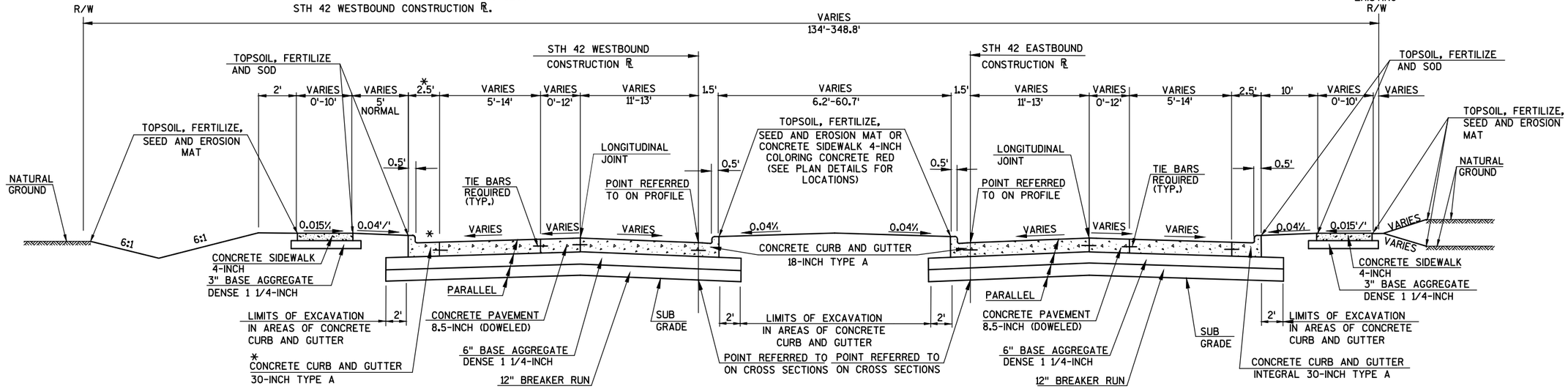
FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_020302_TS.DWG PLOT DATE : 4/11/2018 2:20 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42



TYPICAL FINISHED CROSS SECTION FOR STH 42 (WALDO BOULEVARD)

STA. 185+87.41-STA. 187+82.19 STH 42 EBND.

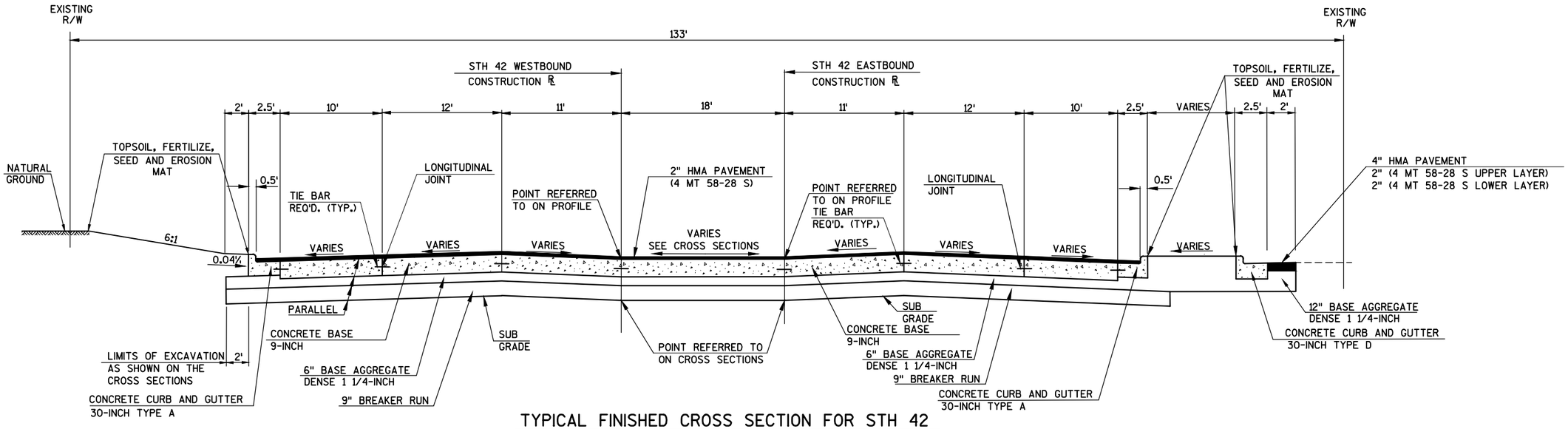
*-CONCRETE CURB AND GUTTER INTEGRAL
18-INCH TYPE D (SPECIAL) TO STA. 187+81.07
STH 42 WESTBOUND CONSTRUCTION ℄.



TYPICAL FINISHED CROSS SECTION FOR STH 42 (WALDO BOULEVARD)

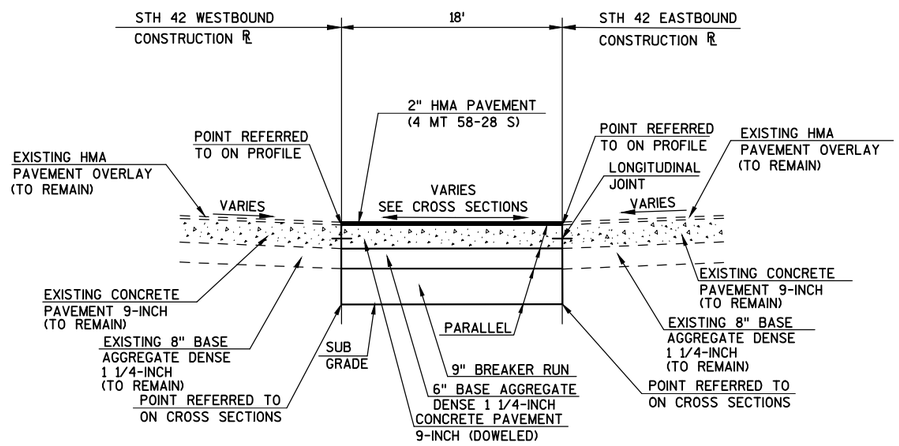
STA. 187+82.19-STA. 188+96.86 STH 42 EBND.
STA. 190+44.26-STA. 194+82.83 STH 42 EBND.

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	TYPICAL SECTIONS	SHEET 23	E



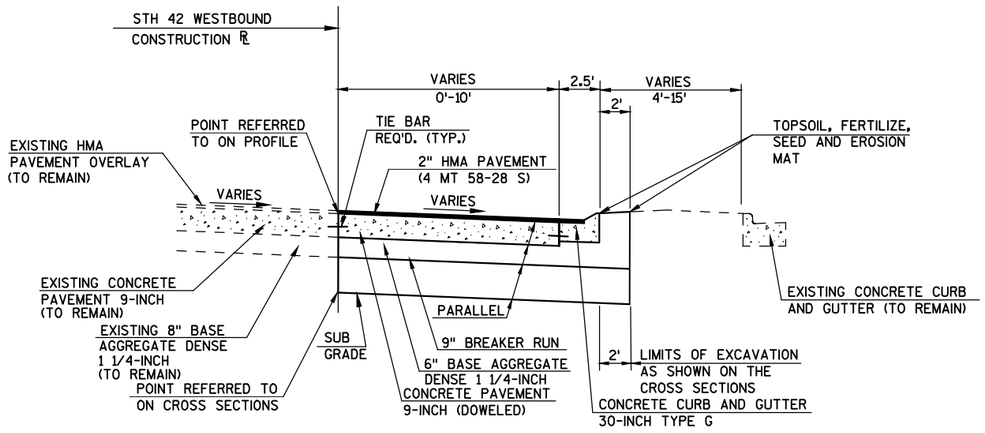
TYPICAL FINISHED CROSS SECTION FOR STH 42

STA. 194+82.83-STA. 194+90.24 STH 42 EBND.



TYPICAL FINISHED CROSS SECTION FOR STH 42

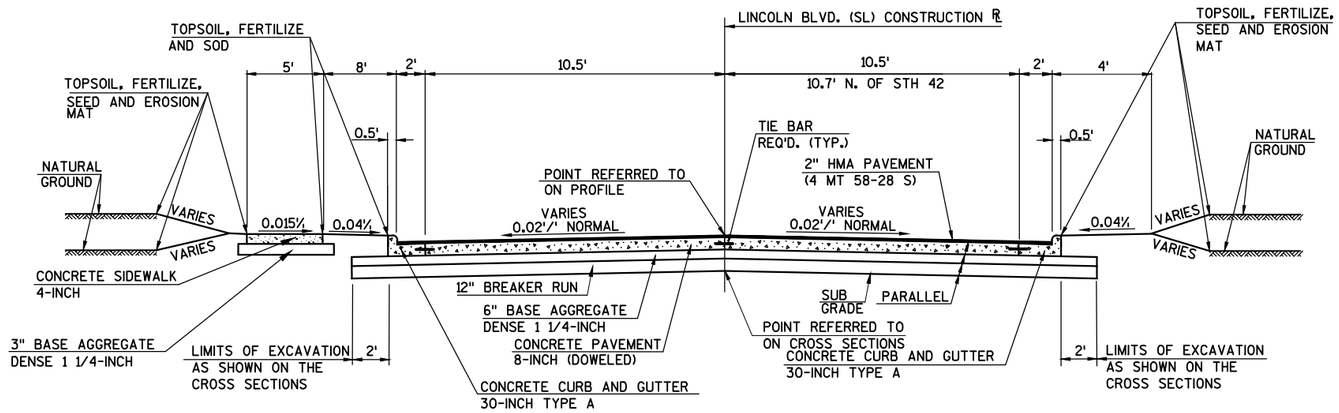
STA. 194+90-STA. 195+53 STH 42 EBND.



TYPICAL FINISHED CROSS SECTION FOR STH 42

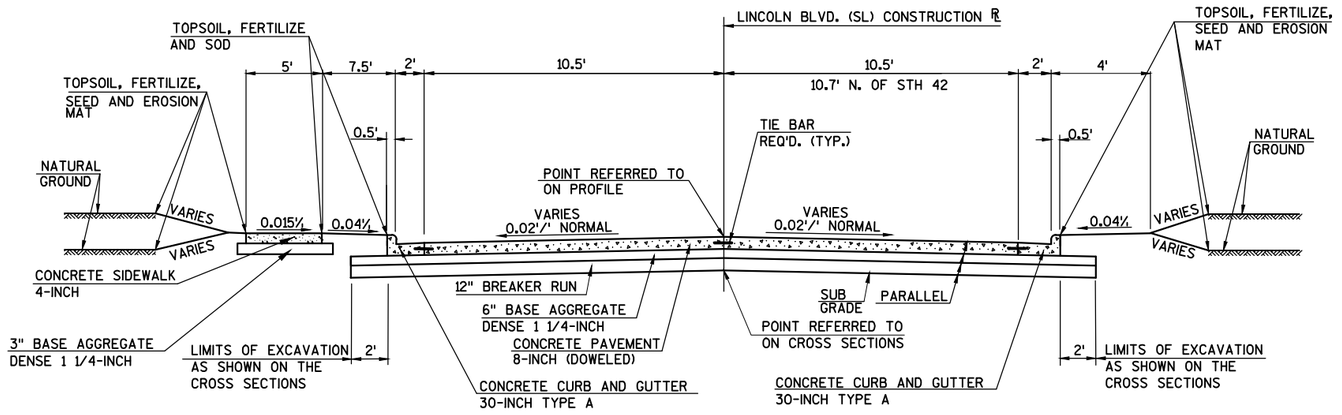
STA. 195+53-STA. 196+94.7 STH 42 EBND.

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	TYPICAL SECTIONS	SHEET	E



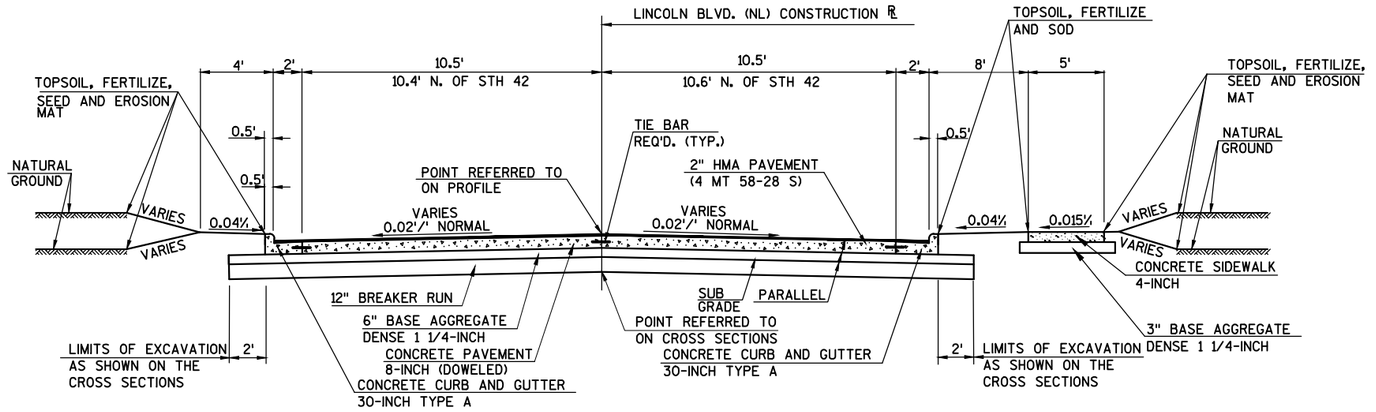
TYPICAL FINISHED CROSS SECTION FOR LINCOLN BLVD. (SL)

STA. 9+10 - STA. 9+15 LINCOLN BLVD. (SL)
STA. 10+80 - STA. 10+85 LINCOLN BLVD. (SL)



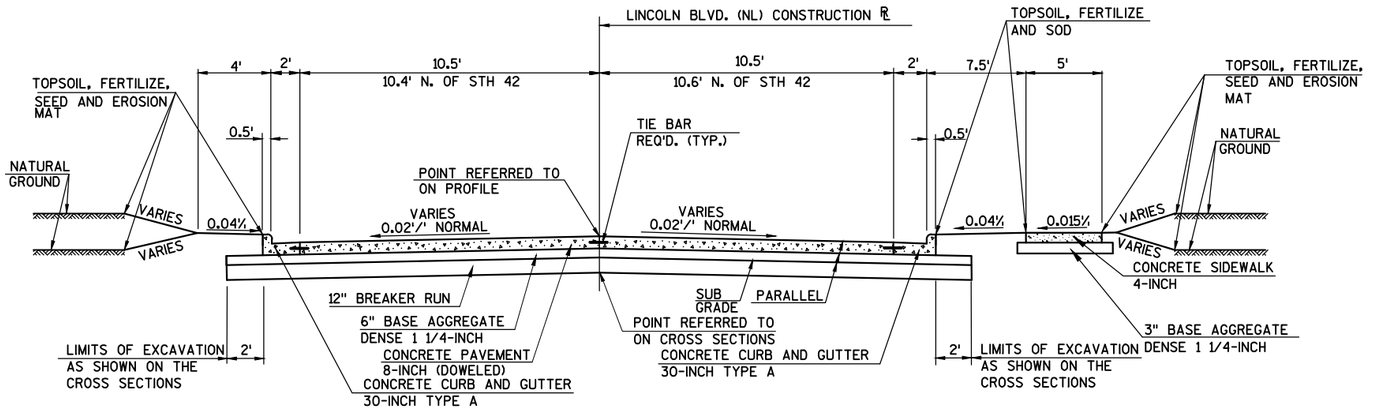
TYPICAL FINISHED CROSS SECTION FOR LINCOLN BLVD. (SL)

STA. 9+15 - STA. 9+75 LINCOLN BLVD. (SL)
STA. 10+49 - STA. 10+80 LINCOLN BLVD. (SL)



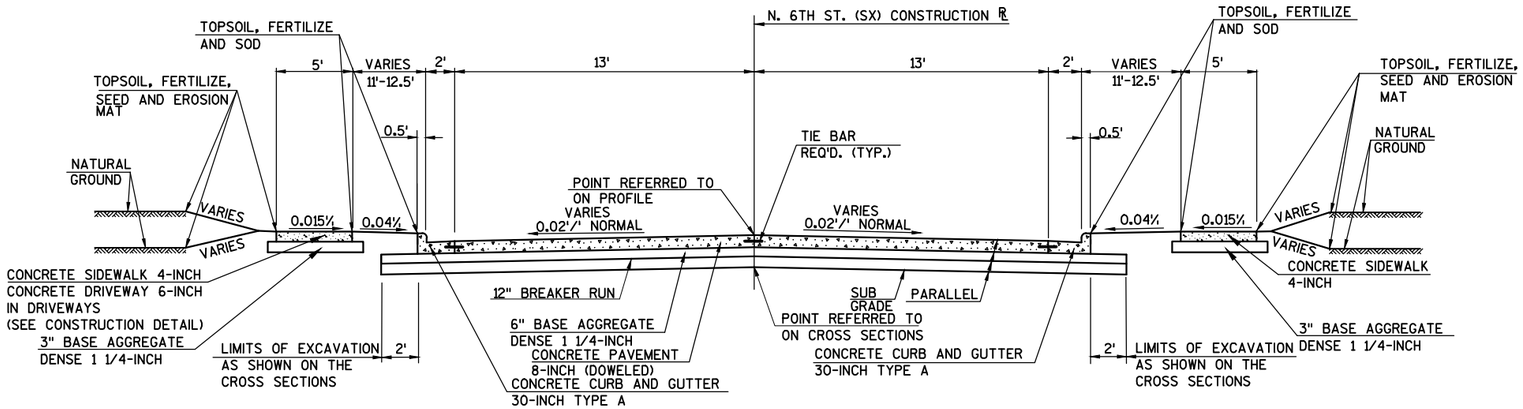
TYPICAL FINISHED CROSS SECTION FOR LINCOLN BLVD. (NL)

STA. 9+10 - STA. 9+15 LINCOLN BLVD. (NL)
STA. 10+80 - STA. 10+85 LINCOLN BLVD. (NL)



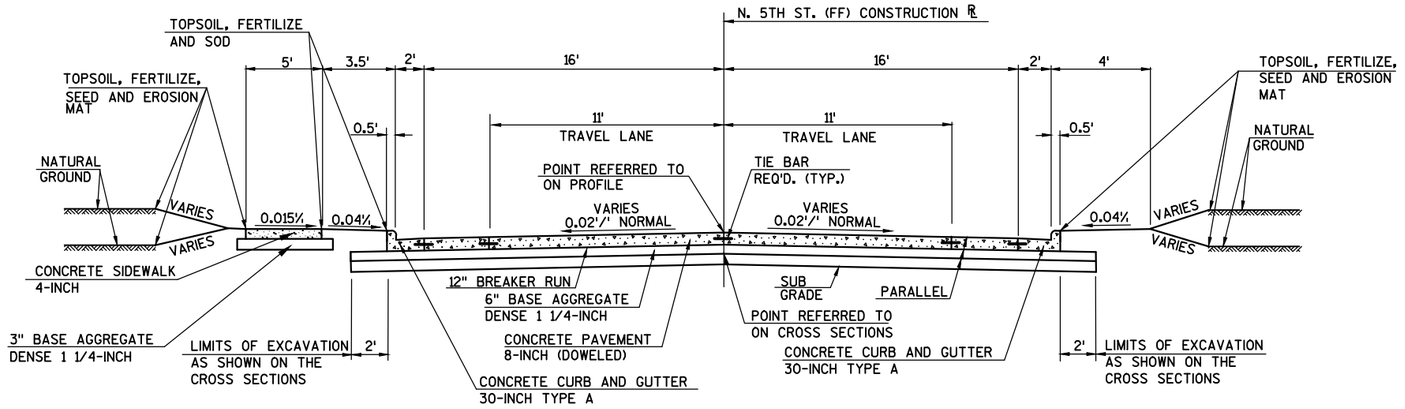
TYPICAL FINISHED CROSS SECTION FOR LINCOLN BLVD. (NL)

STA. 9+15 - STA. 9+75 LINCOLN BLVD. (NL)
STA. 10+49 - STA. 10+80 LINCOLN BLVD. (NL)



TYPICAL FINISHED CROSS SECTION FOR N. 6TH ST. (SX)

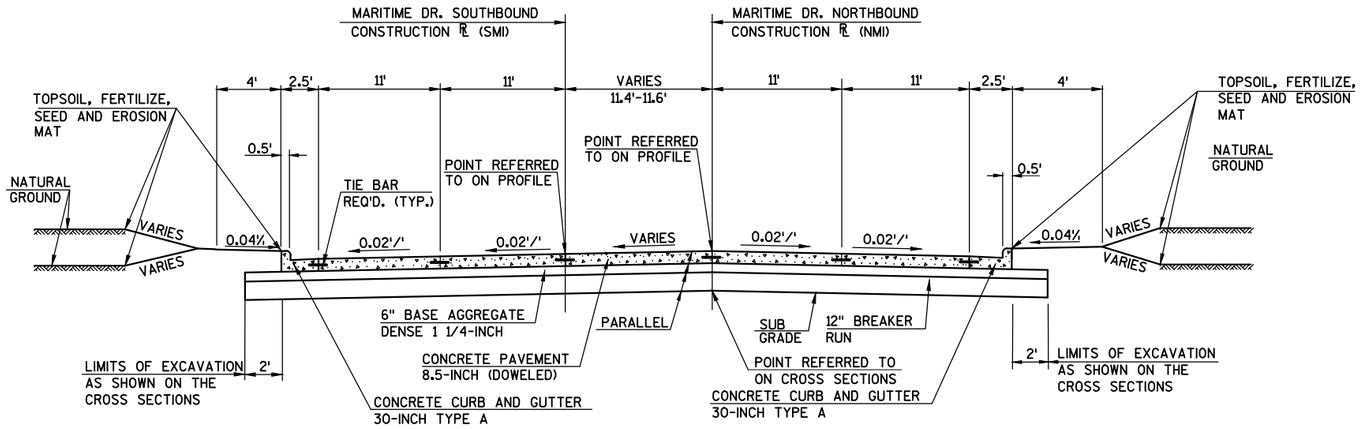
STA. 9+35 - STA. 9+75 (SX)
STA. 10+49 - STA. 11+00 (SX)



TYPICAL FINISHED CROSS SECTION FOR N. 5TH ST. (FF)

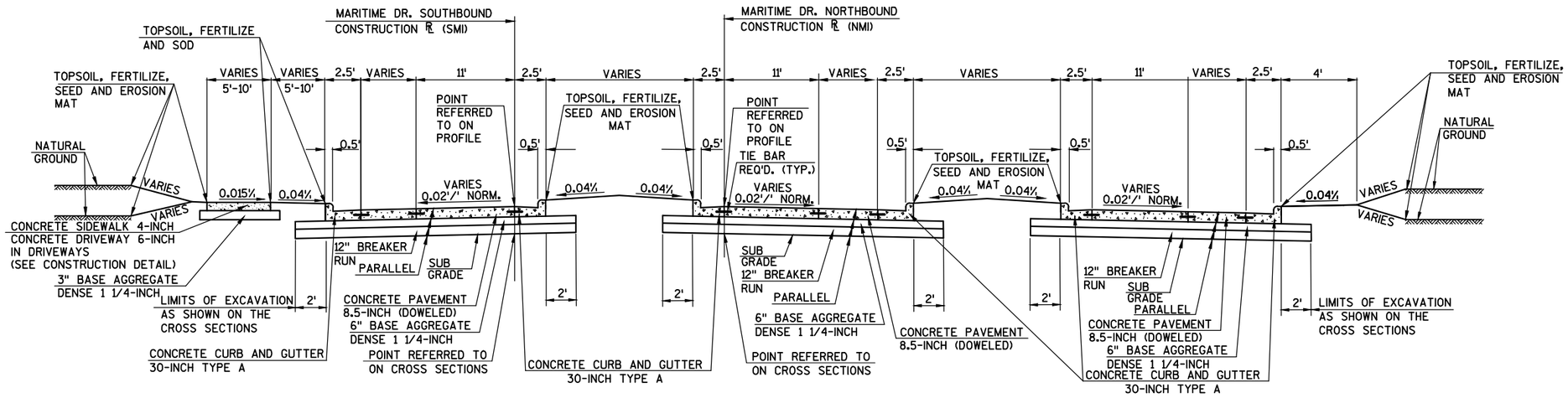
STA. 10+25 - STA. 10+60 (FF)

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	TYPICAL SECTIONS	SHEET 27	E



TYPICAL FINISHED CROSS SECTION FOR MARITIME DR.

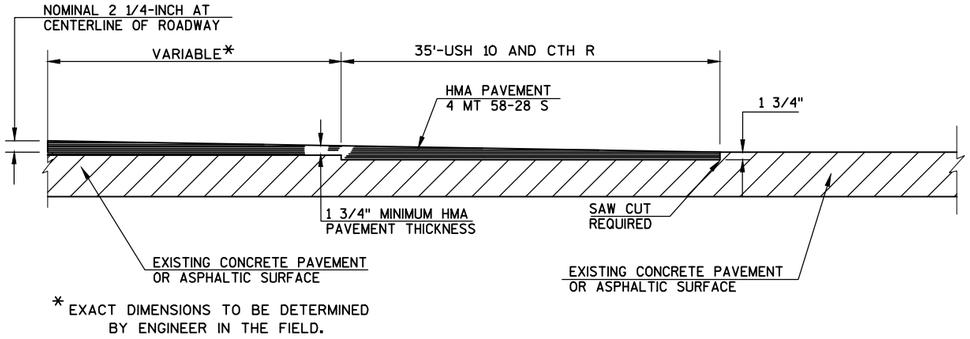
STA. 10+75 - STA. 11+00



TYPICAL FINISHED CROSS SECTION FOR MARITIME DR.

STA. 11+00 - STA. 13+59.21 (NMI)

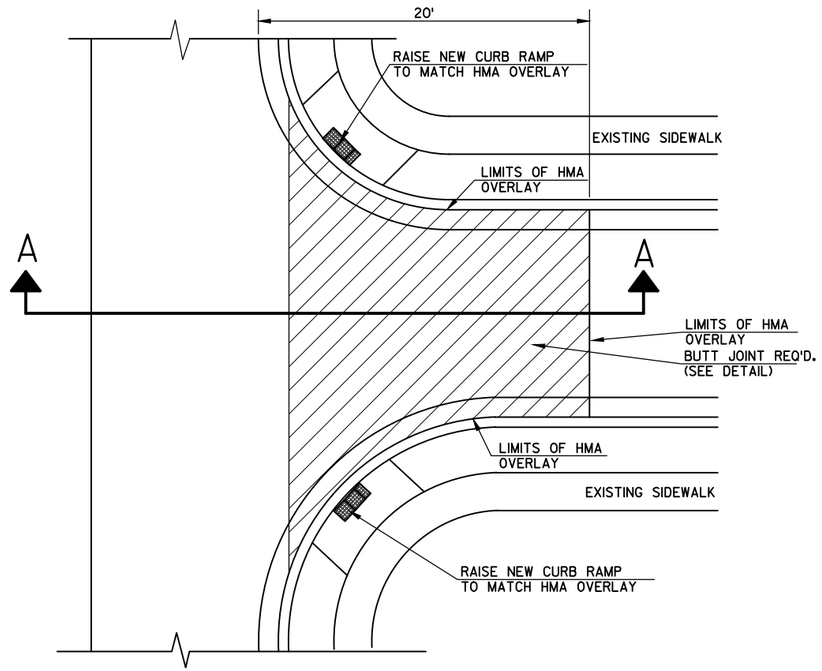
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	TYPICAL SECTIONS	SHEET 28	E



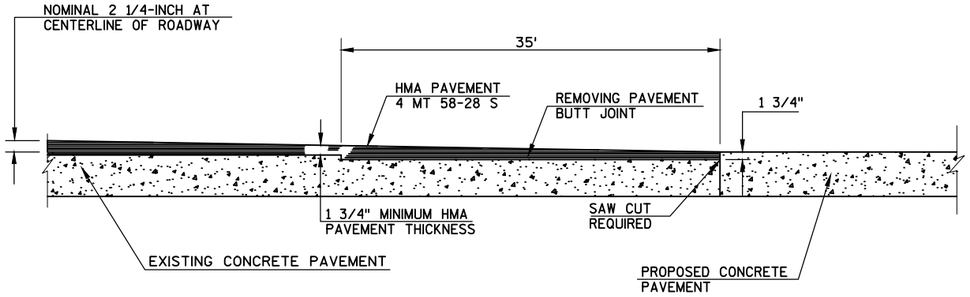
* EXACT DIMENSIONS TO BE DETERMINED BY ENGINEER IN THE FIELD.

DETAIL FOR BUTT JOINT

STA. 38+00 USH 10 WESTBOUND AND EASTBOUND
STA. 8+95 CTH R
STA. 11+40 CTH R

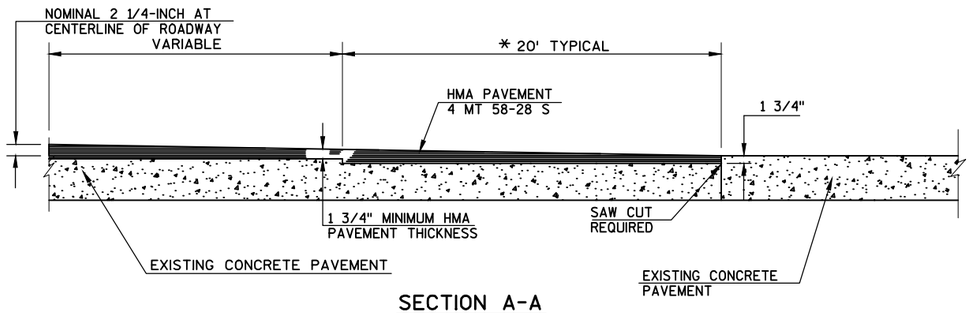


DETAIL FOR OVERLAY LIMITS AT SIDE STREETS



DETAIL FOR BUTT JOINT

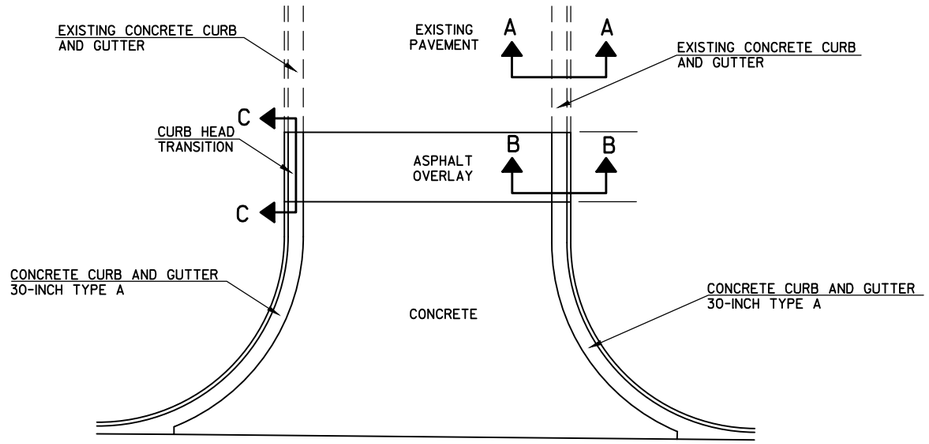
STA 70+00 USH 10 WESTBOUND AND EASTBOUND



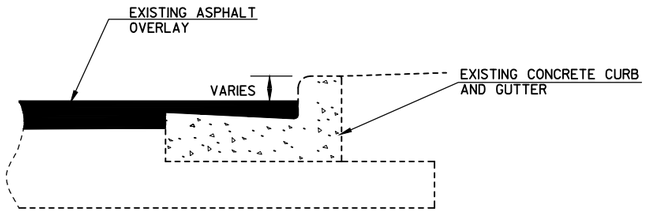
SECTION A-A

DETAIL FOR BUTT JOINT AT SIDEROADS

* EXACT DIMENSIONS TO BE DETERMINED BY ENGINEER IN THE FIELD.

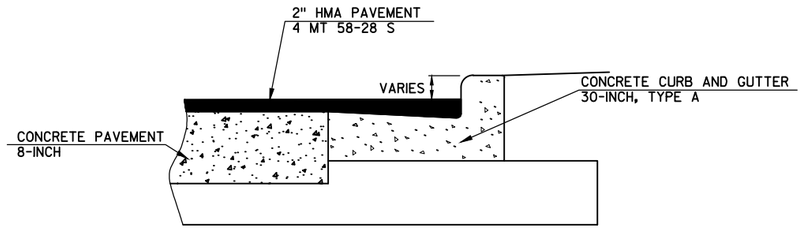


PLAN VIEW

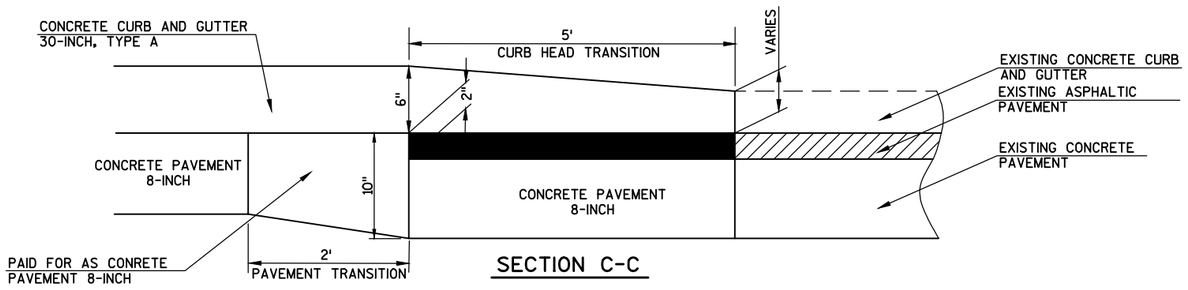


SECTION A-A

EXISTING SIDE STREET SECTION

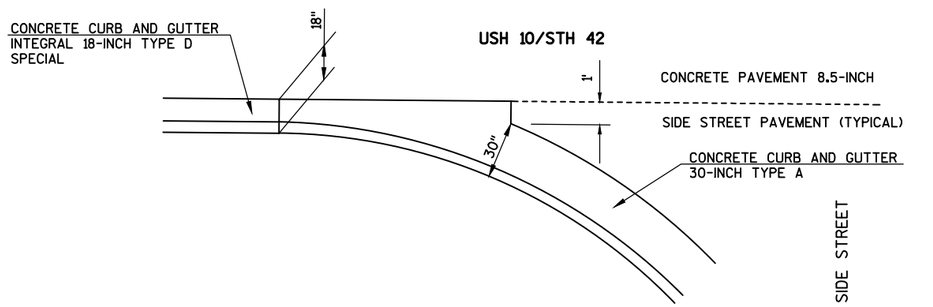


SECTION B-B



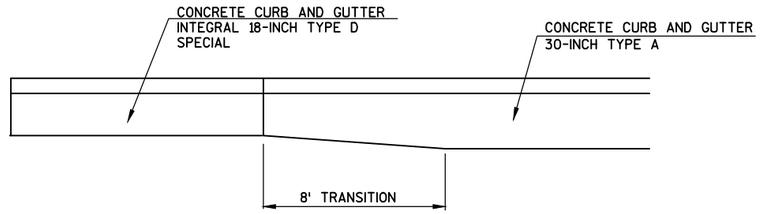
SECTION C-C

CURB HEAD TRANSITION FOR ASPHALT OVERLAID SIDE STREETS



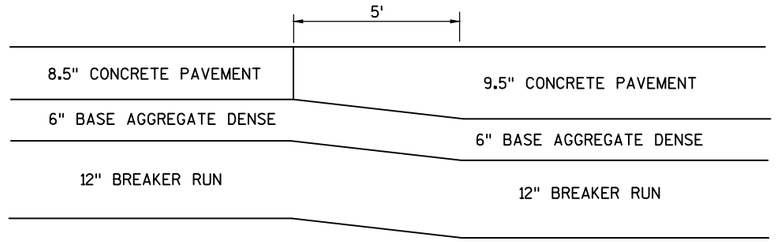
CONCRETE CURB AND GUTTER TRANSITION DETAIL

SEE PLAN DETAIL SHEETS FOR LOCATIONS

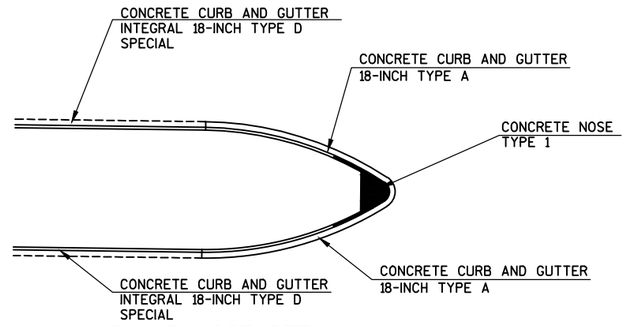


CONCRETE CURB AND GUTTER TRANSITION DETAIL

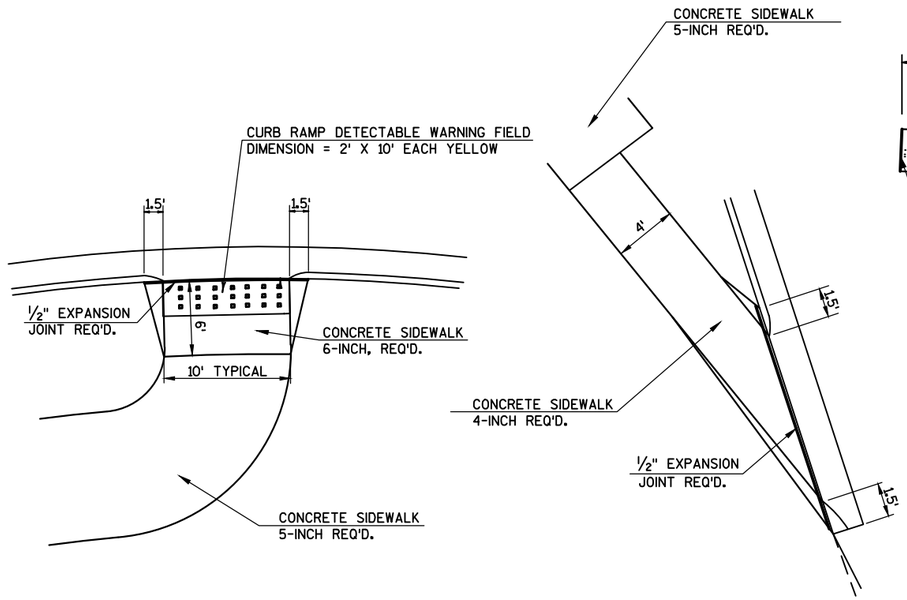
STA. 187+81.01 STH 42 WESTBOUND CONSTRUCTION ℞
STA. 187+82.19 STH 42 EASTBOUND CONSTRUCTION ℞



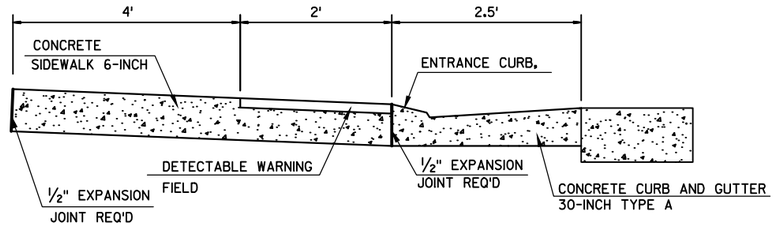
CONCRETE PAVEMENT TRANSITION AT ROUNDABOUT APPROACHES



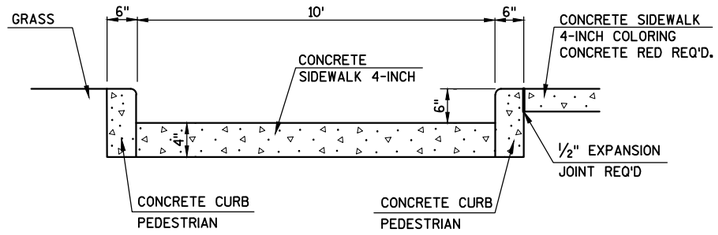
ISLAND NOSE DETAIL



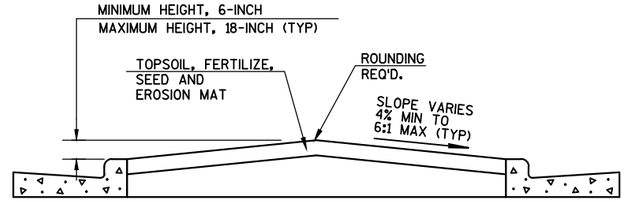
CURB RAMP DETAIL FOR STH 42/MARITIME DR./MEMORIAL DR.



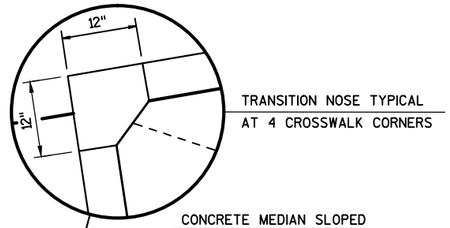
SECTION A-A

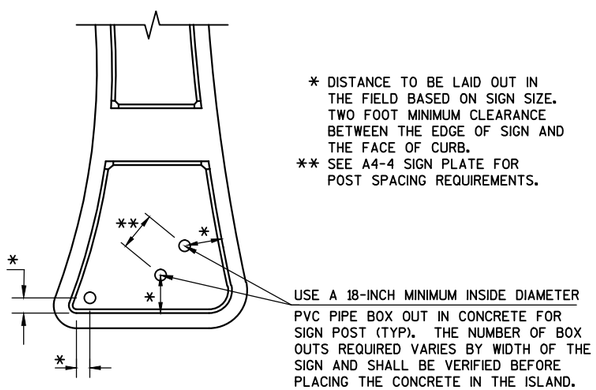


SECTION B-B



SECTION C-C

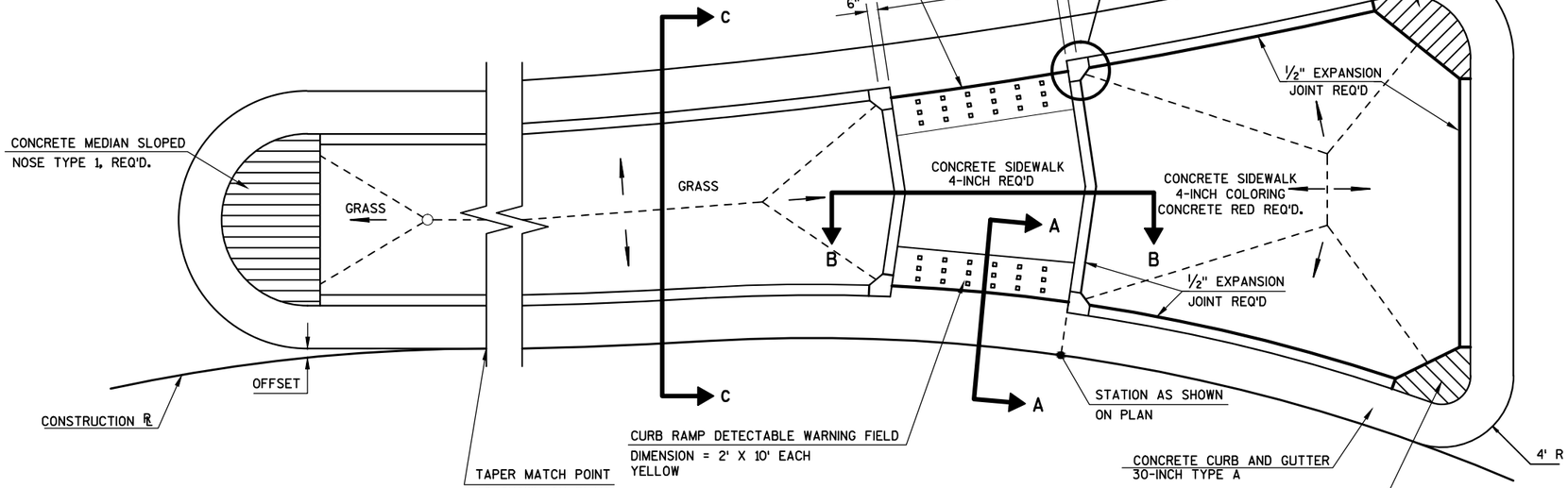




* DISTANCE TO BE LAID OUT IN THE FIELD BASED ON SIGN SIZE. TWO FOOT MINIMUM CLEARANCE BETWEEN THE EDGE OF SIGN AND THE FACE OF CURB.
** SEE A4-4 SIGN PLATE FOR POST SPACING REQUIREMENTS.

ISLAND SIGN LOCATION DETAIL (TYP)

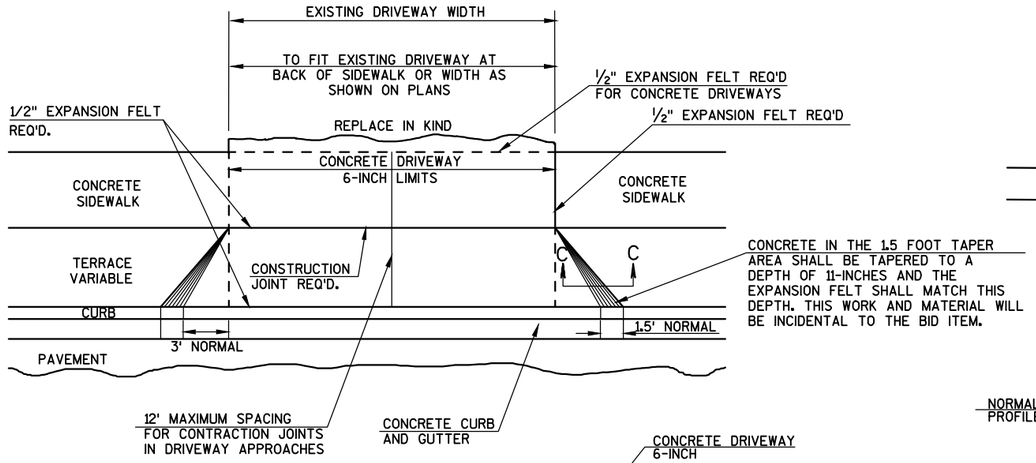
NOTIFY THE REGIONAL TRAFFIC UNIT AT 920-492-5653 A MINIMUM OF TWO WEEKS PRIOR TO THE NEED FOR SIGN PLACEMENT TO ALLOW FOR STAKING OF ANY PERMANENT SIGNING REQUIRED ON THE PROJECT.



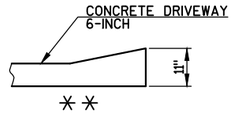
NOTE:
INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.)
DO NOT MARK TRANSITION NOSE.

--- DRAINAGE BREAK POINT
← DIRECTION OF DRAINAGE

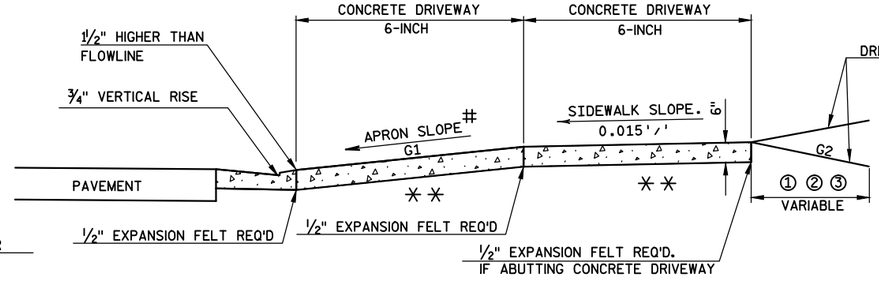
SPLITTER ISLAND DETAIL



PLAN VIEW



SECTION C-C



TYPICAL SIDEWALK SECTION

① — 6" BASE AGGREGATE DENSE 1 1/4-INCH BASE WITH 2" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

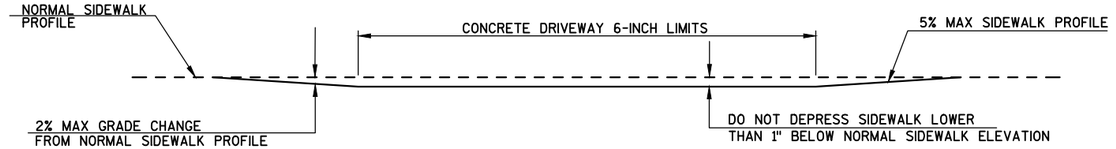
② — CONCRETE DRIVEWAY 6-INCH

③ — 6" BASE AGGREGATE DENSE 1 1/4-INCH

** - 6" BASE AGGREGATE DENSE 1 1/4-INCH REQUIRED UNDER CONCRETE DRIVEWAY

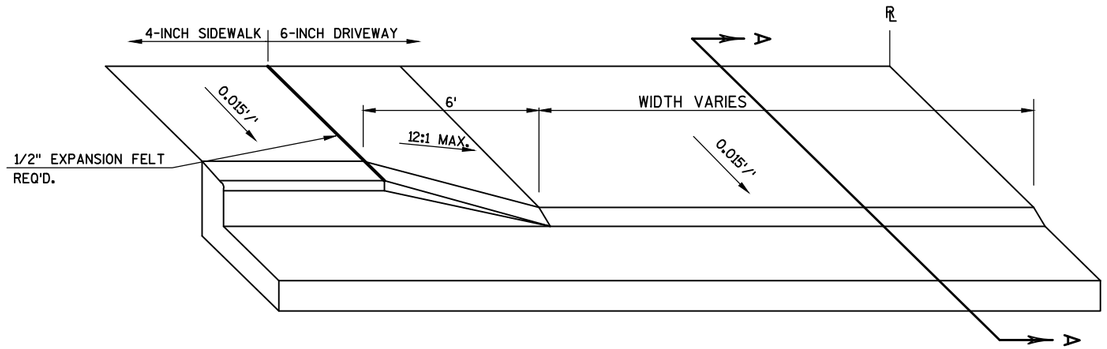
- APRON SLOPE (G)=10.7% FOR 4.33 FOOT TERRACE. SLOPE MAY NOT EXCEED 15%

NOTE: ALGEBRAIC DIFFERENCE BETWEEN TANGENT GRADES G1 & G2 TO NOT EXCEED 15%



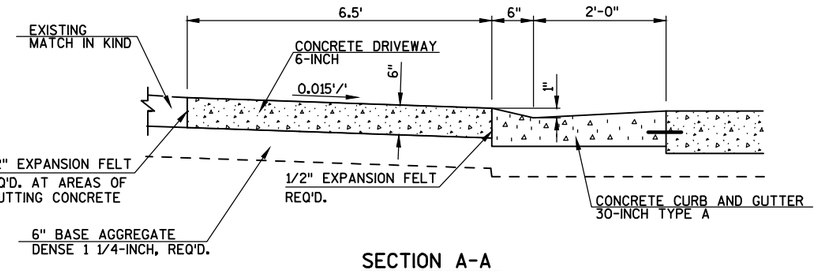
DEPRESSED SIDEWALK PROFILE DETAIL

DRIVEWAY ENTRANCE DETAIL WITH SIDEWALK, CURB AND GUTTER

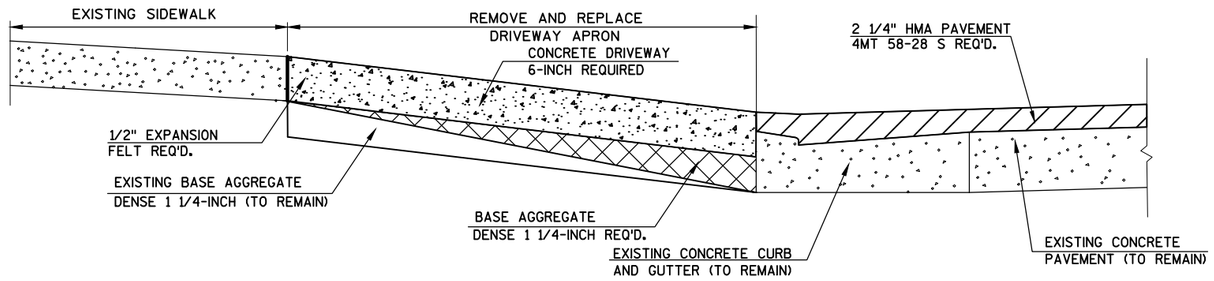


ENTRANCE WITH SIDEWALK ADJACENT TO CURB

STA. 9+02 - STA. 9+12 18TH STREET RT.



SECTION A-A

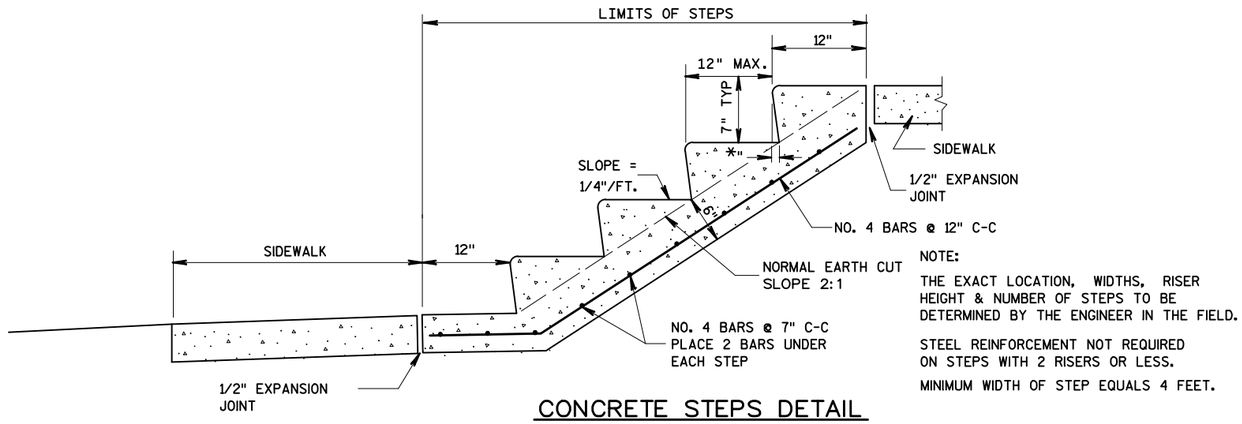


DRIVEWAY APRON REPLACEMENT IN RESURFACING AREAS

(SEE MISCELLANEOUS QUANTITIES AND PLAN FOR LOCATIONS)

PROJECT NO: 1500-37-71/72, 1500-47-71, 4570-12-71/72	HWY: USH 10/STH 42	COUNTY: MANITOWOC	CONSTRUCTION DETAILS	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_021004 CD.DWG PLOT DATE : 8/16/2017 3:18 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 42

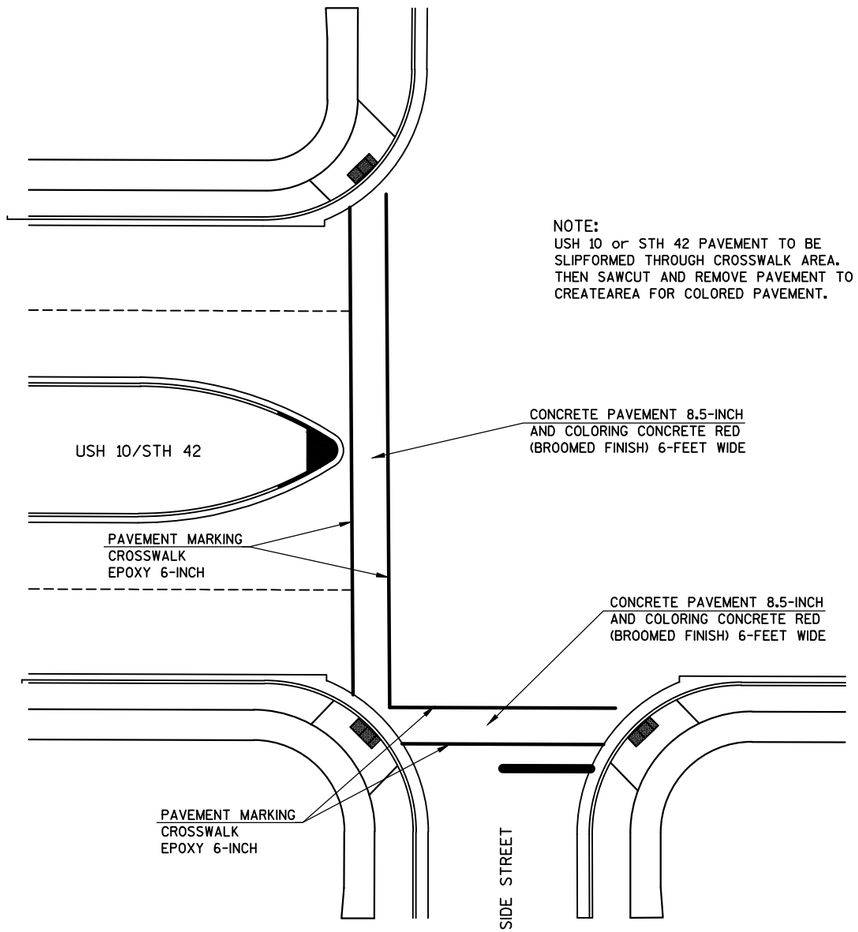


NOTE:
THE EXACT LOCATION, WIDTHS, RISER HEIGHT & NUMBER OF STEPS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

STEEL REINFORCEMENT NOT REQUIRED ON STEPS WITH 2 RISERS OR LESS.

MINIMUM WIDTH OF STEP EQUALS 4 FEET.

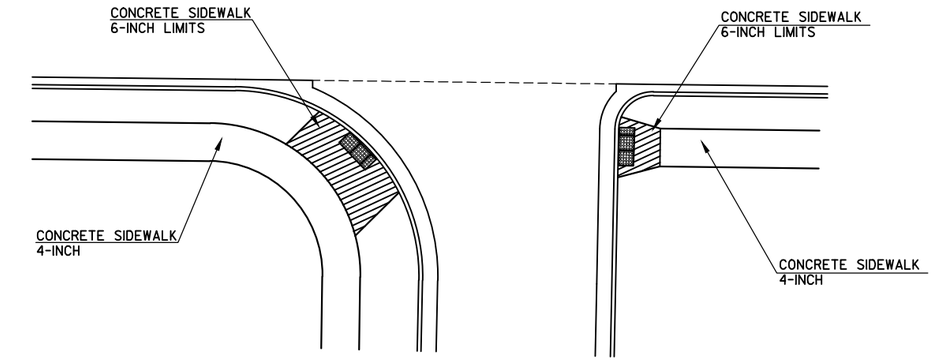
CONCRETE STEPS DETAIL



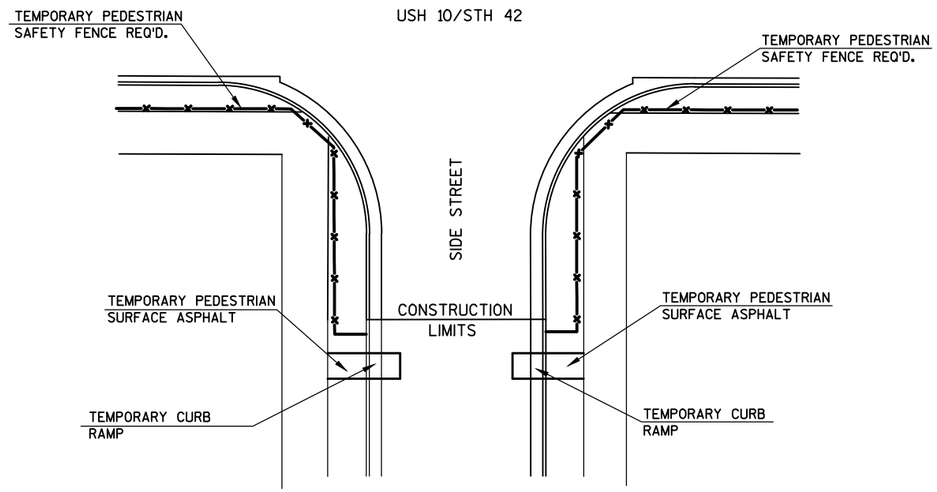
NOTE:
USH 10 or STH 42 PAVEMENT TO BE SLIPFORMED THROUGH CROSSWALK AREA. THEN SAWCUT AND REMOVE PAVEMENT TO CREATEAREA FOR COLORED PAVEMENT.

TYPICAL CROSSWALK DETAIL

8TH STREET
9TH STREET
11TH STREET

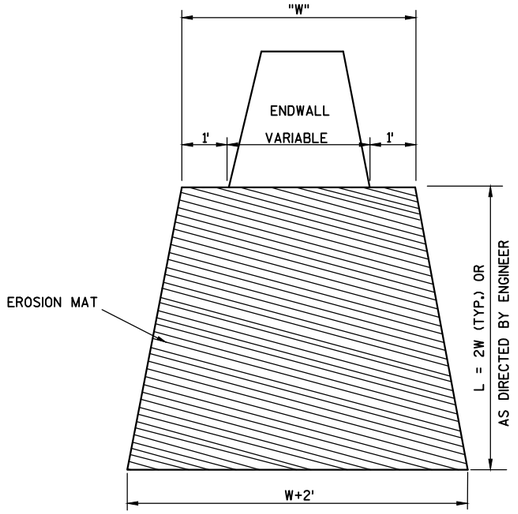


DETAIL FOR TYPICAL CONCRETE SIDEWALK 6-INCH LIMITS AT CURB RAMPS

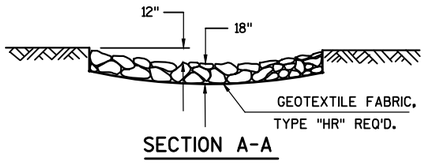


DETAIL FOR PEDESTRIAN TEMPORARY SIDE ROAD CROSSING

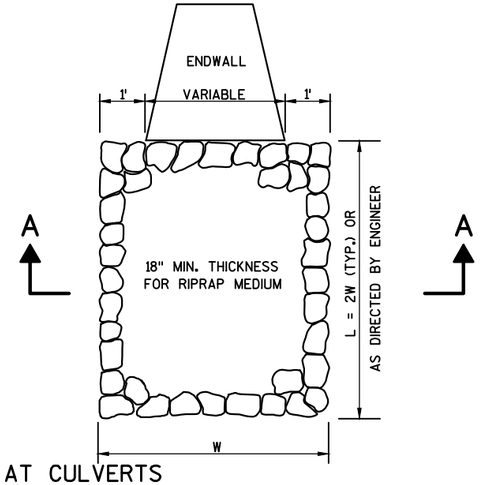
PROJECT NO: 1500-37-71/72, 1500-47-71, 4570-12-71/72	HWY: USH 10/STH 42	COUNTY: MANITOWOC	CONSTRUCTION DETAILS	SHEET 33	E



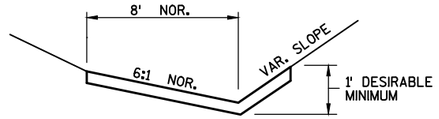
EROSION MAT TREATMENT AT CULVERTS



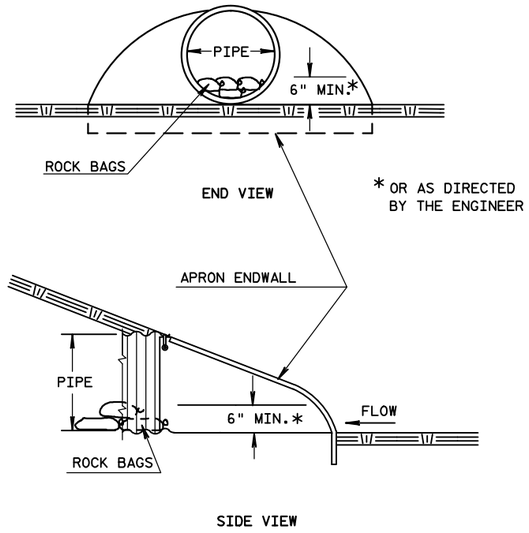
SECTION A-A



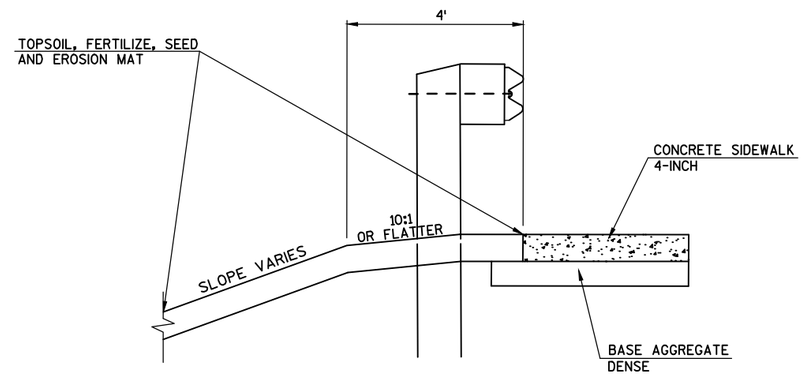
RIPRAP MEDIUM TREATMENT AT CULVERTS



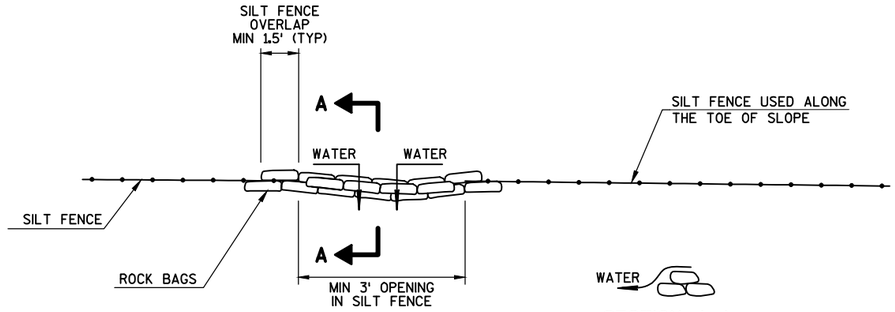
EROSION MAT DETAIL FOR DITCHES



CULVERT PIPE DITCH CHECK



TOPSOIL AT GUARD RAIL

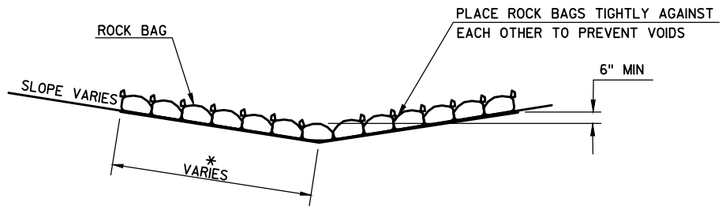


TOP VIEW

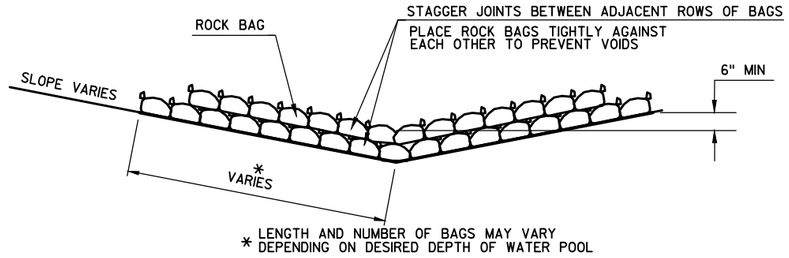
SECTION A-A

ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL

PAID AS ROCK BAGS



SIDE VIEW (SINGLE LAYER)



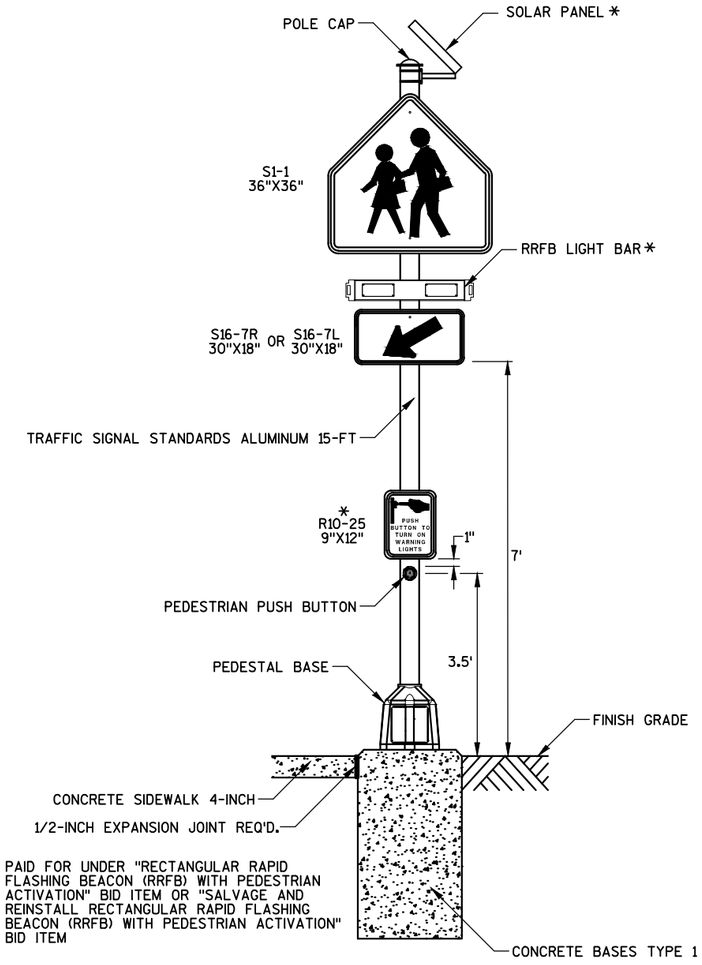
* LENGTH AND NUMBER OF BAGS MAY VARY DEPENDING ON DESIRED DEPTH OF WATER POOL

SIDE VIEW (MULTIPLE LAYER)

ROCK BAGS DITCH CHECK

PAID AS ROCK BAGS

(SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS)



RECTANGULAR RAPID FLASHING BEACON (RRFB) WITH PEDESTRIAN ACTIVATION ASSEMBLY DETAIL

SCALE: NONE

2

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

ANCHOR RODS SHALL BE 1.25" X 60".

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD
ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF
THE STANDARD SPECIFICATIONS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

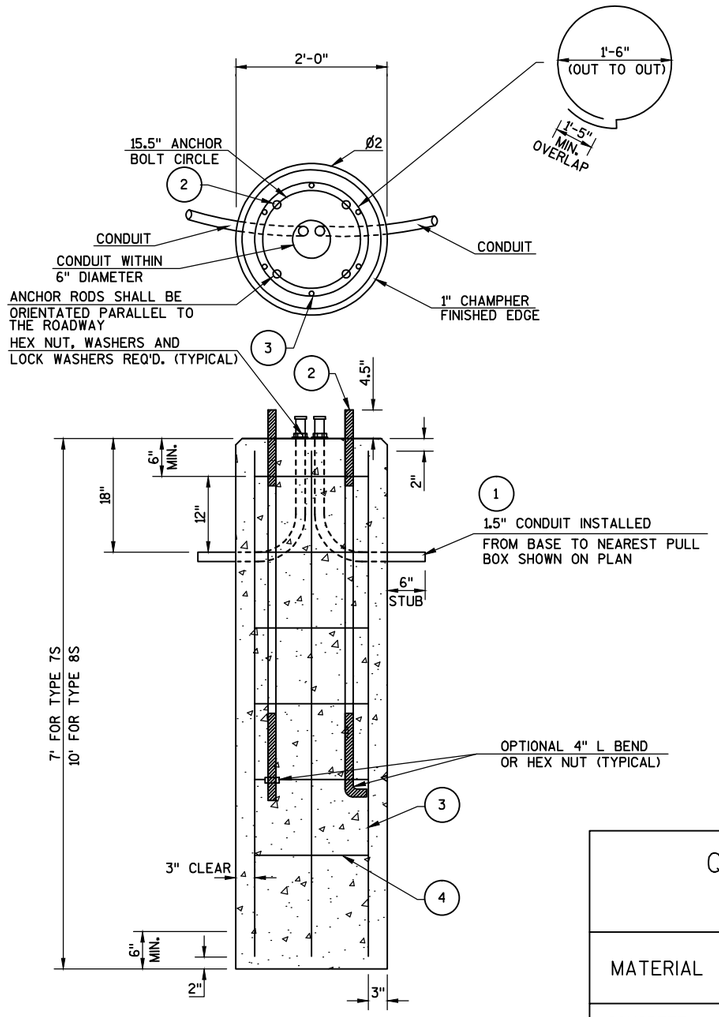
BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

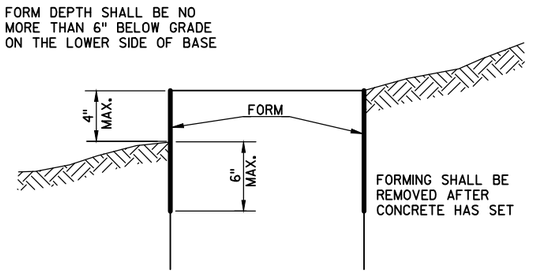
(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) 4 - 1.25" DIA. X 5'-0" ANCHOR RODS

(3) 6 - NO. 6 X 6'-8" BAR STEEL REINFORCEMENT FOR TYPE 7S
6 - NO. 6 X 9'-8" BAR STEEL REINFORCEMENT FOR TYPE 8S

(4) 7 - NO. 4 X 6'-2" BAR STEEL REINFORCEMENT @ 1'-0" C-C FOR TYPE 7S
10 - NO. 4 X 6'-2" BAR STEEL REINFORCEMENT @ 1'-0" C-C FOR TYPE 8S



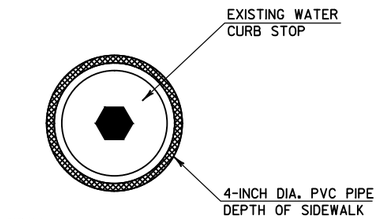


FORM DETAIL

QUANTITY REQUIREMENTS

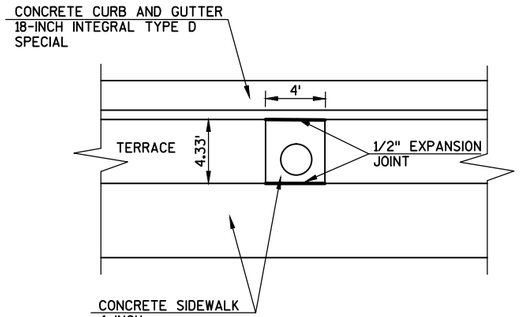
		7S	8S
MATERIAL	UNIT OF MEASURE	APPROXIMATE AMOUNT	APPROXIMATE AMOUNT
CONCRETE	CUBIC YARDS	.8	1.2
HOOP STEEL REINFORCEMENT	LBS.	29	41
BAR STEEL REINFORCEMENT	LBS.	60	87

DETAIL FOR CONCRETE BASES TYPE 7 AND 8 SPECIAL



NOTE:
COST OF PVC PIPE IS
INCIDENTAL TO ITEMS
OF CONCRETE SIDEWALK

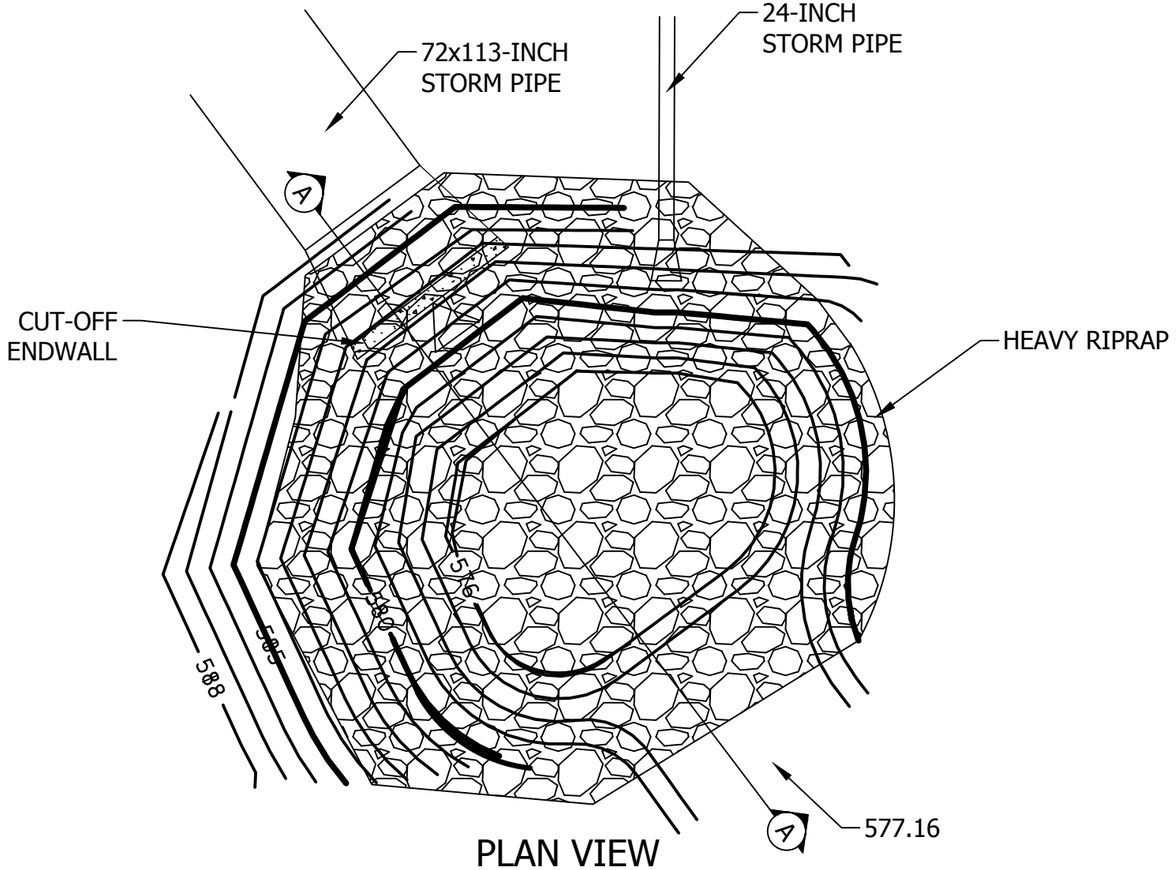
DETAIL FOR WATER CURB STOP IN SIDEWALK



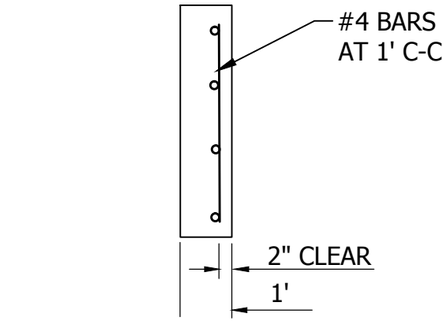
DETAIL FOR LIGHTING BASE IN TERRACE

PROJECT NO: 1500-37-71/72,1500-47-71,4570-12-71/72	HWY: USH 10/STH 42	COUNTY: MANITOWOC	CONSTRUCTION DETAILS	SHEET 37	E

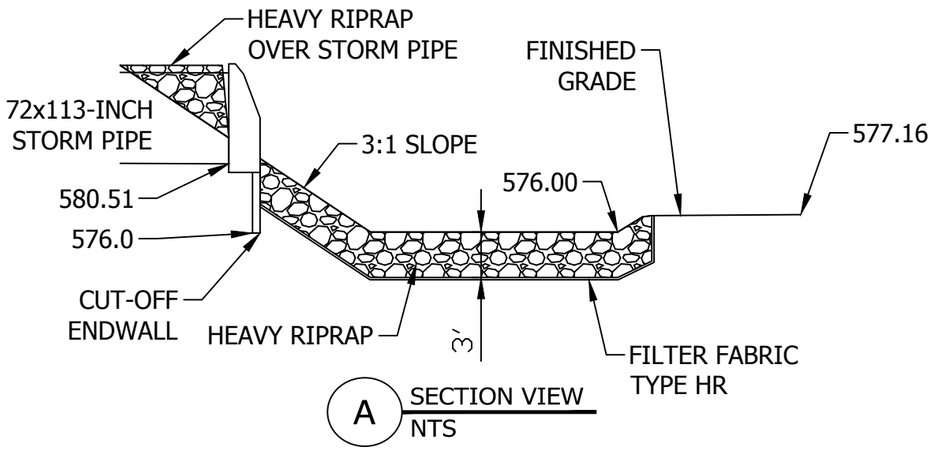
2



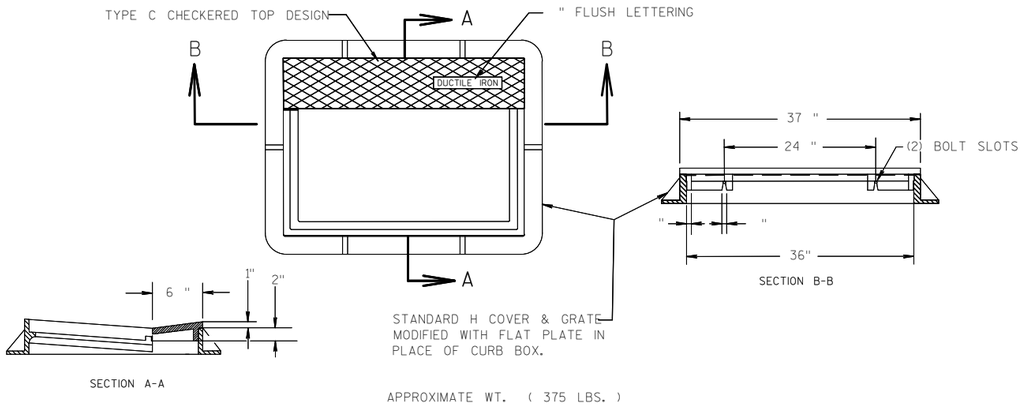
PLAN VIEW



CUT-OFF WALL DETAIL

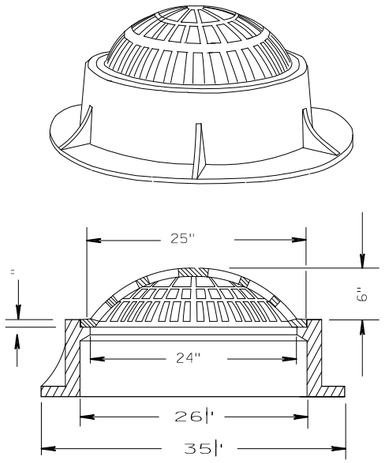


OUTFALL DISSIPATOR

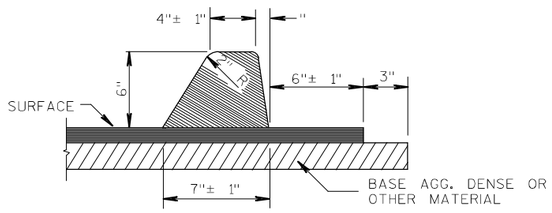


APPROXIMATE WT. (375 LBS.)

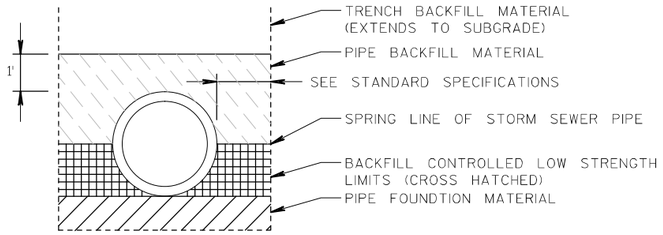
INLET COVER TYPE 'DW'
(WITH MOUNTABLE CURB PLATE)



TYPE 'BH' INLET
WEIGHT = 350 lbs.

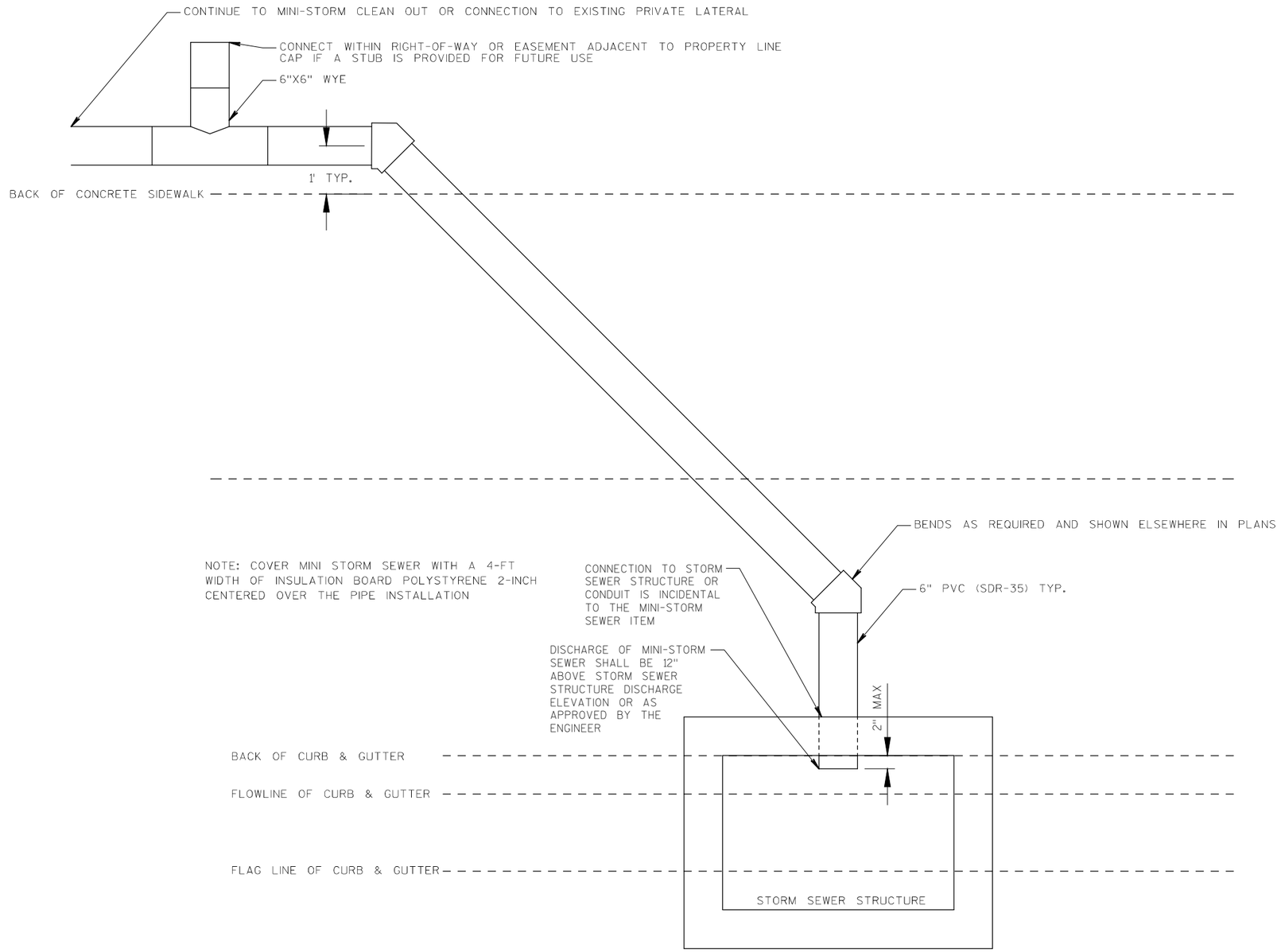


ASPHALTIC CURB DETAIL



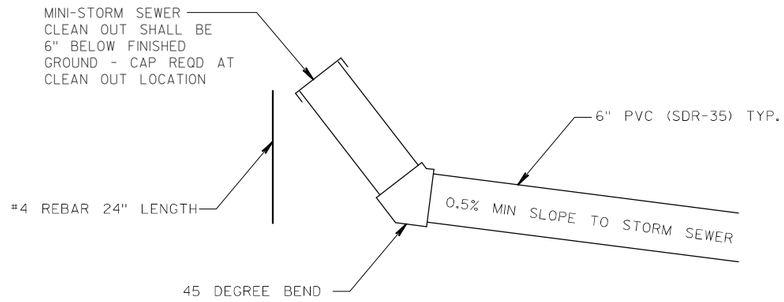
BACKFILL CONTROLLED LOW STRENGTH DETAIL

2



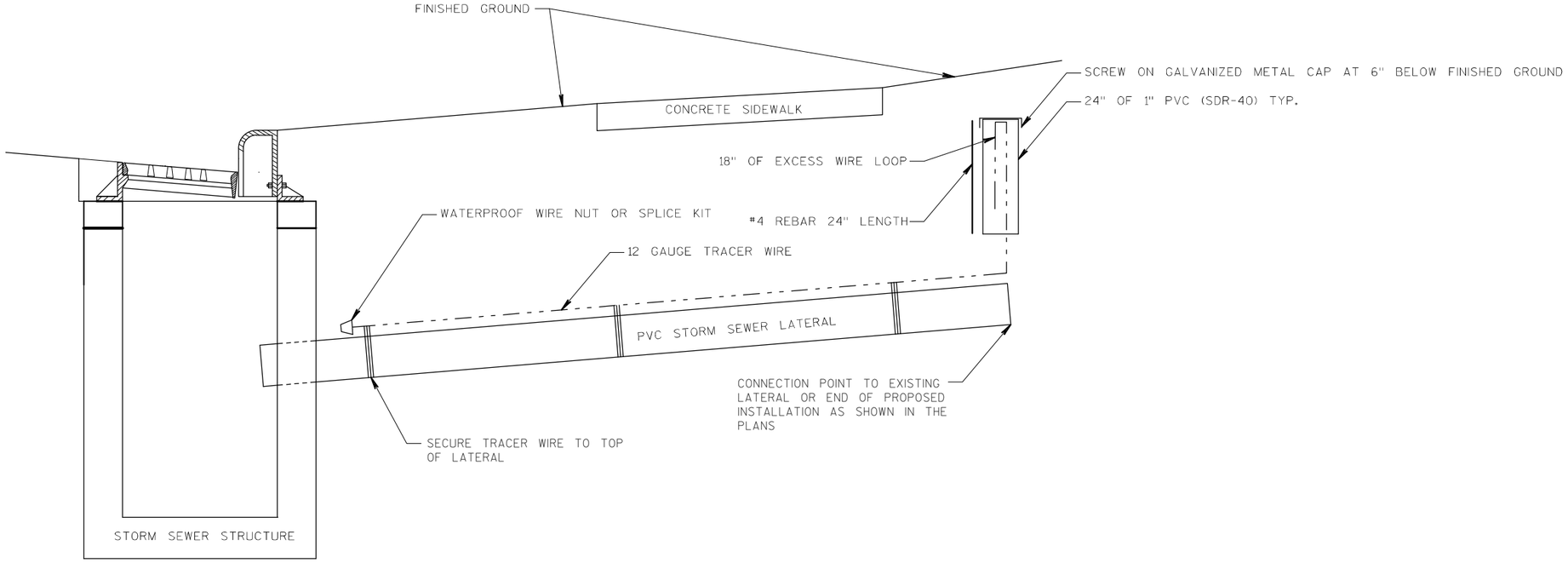
MINI-STORM SEWER AND PRIVATE LATERAL CONNECTION DETAIL

2

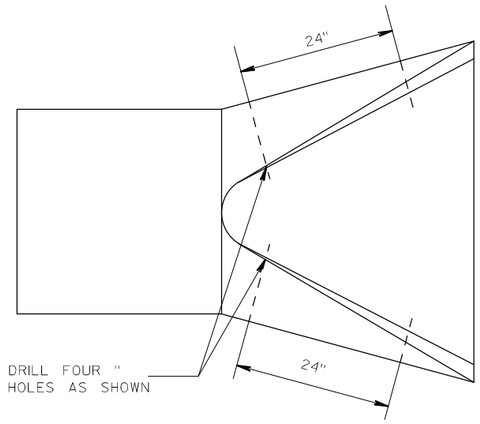


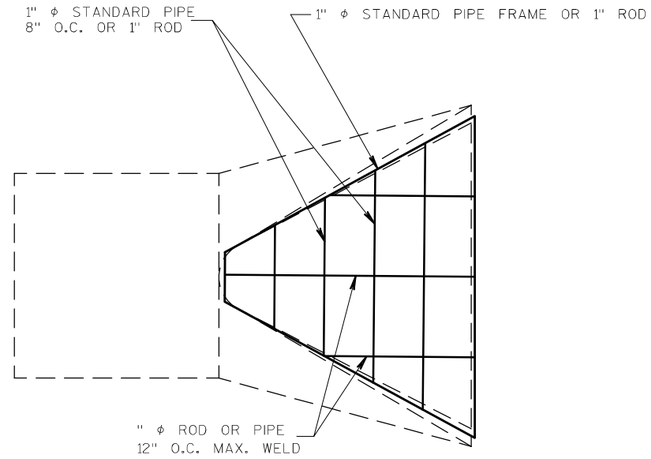
SEE STORM SEWER PLANS FOR CLEAN OUT LOCATIONS DESIGNATED AS - ⊕

MINI-STORM SEWER CLEAN OUT DETAIL

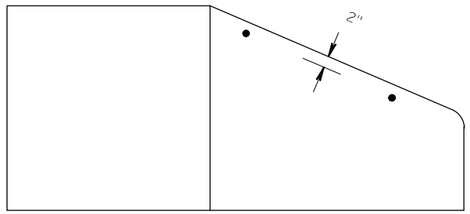


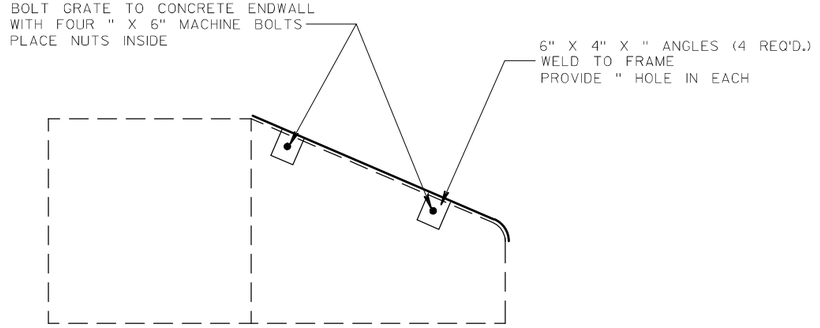
TRACER WIRE FOR STORM SEWER LATERAL DETAIL

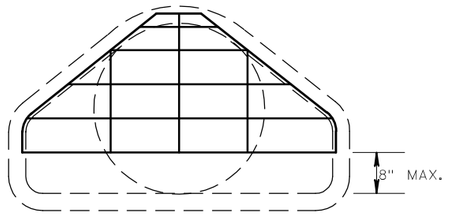




AT EACH PIPE

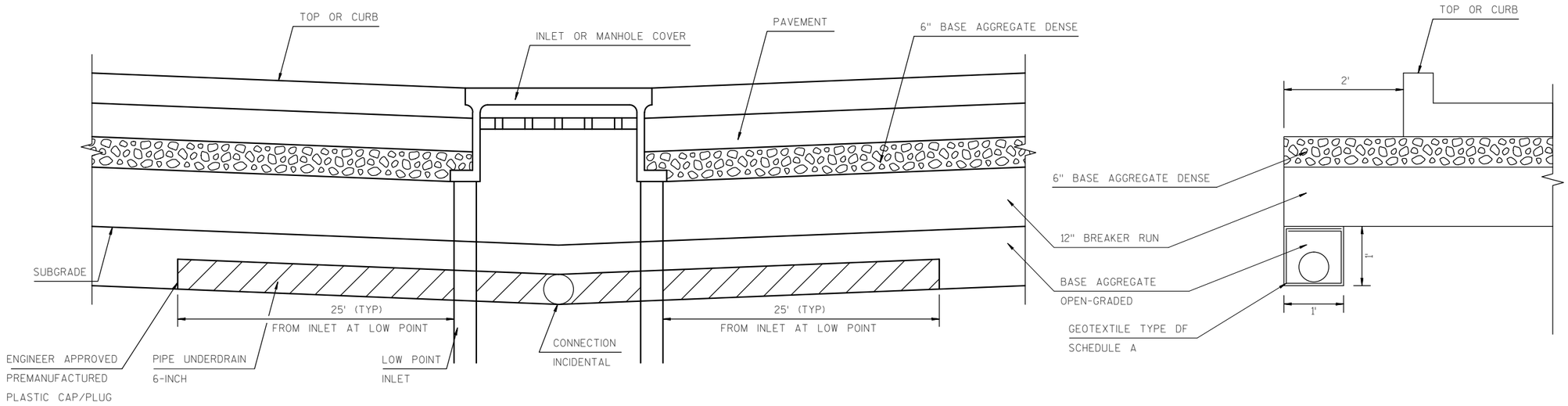




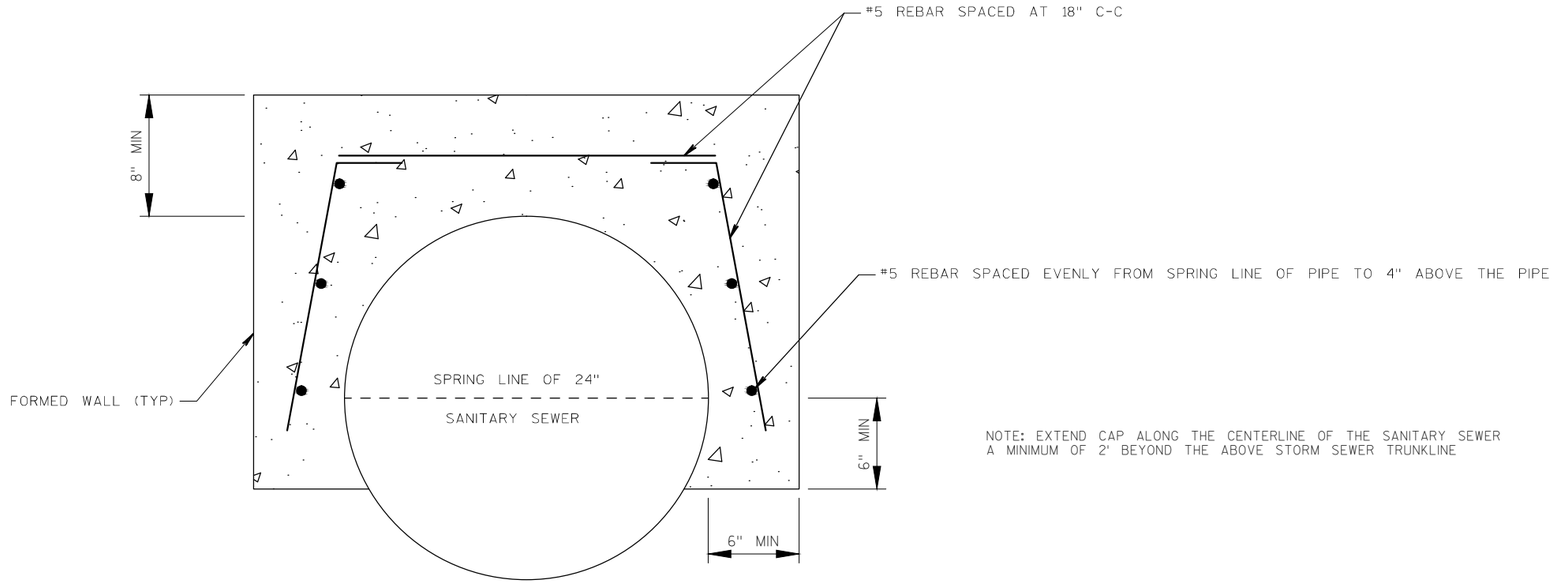


PIPE GRATE DETAIL

PROJECT NO: 1500-37/47-71, 4570-12-71	HWY: USH 10/STH 42	COUNTY: MANITOWOC	CONSTRUCTION DETAILS	SHEET 42 E

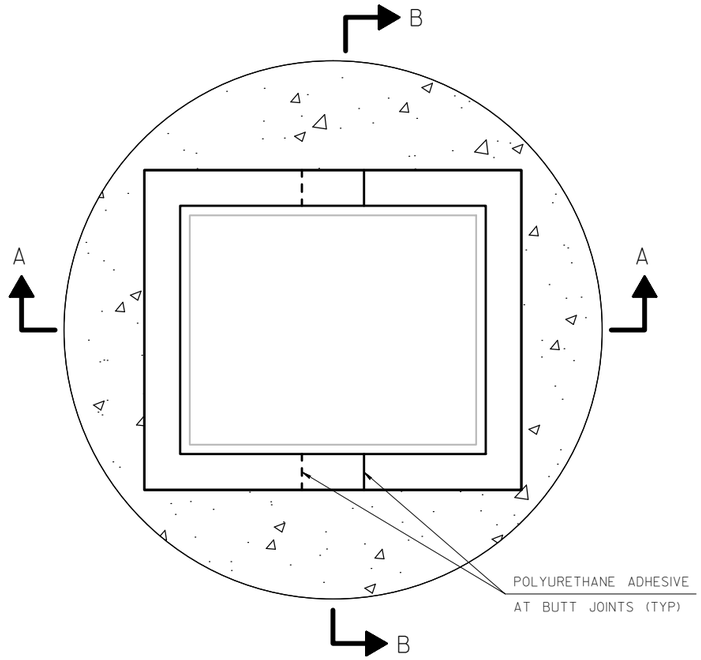


PIPE UNDERDRAIN DETAIL



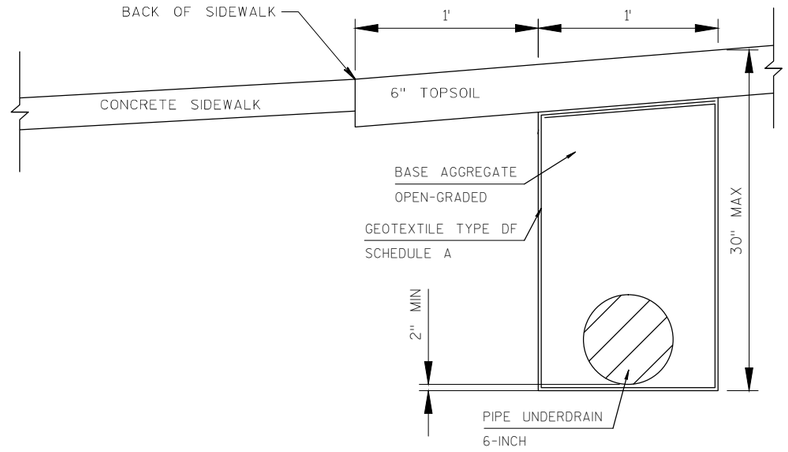
NOTE: EXTEND CAP ALONG THE CENTERLINE OF THE SANITARY SEWER A MINIMUM OF 2' BEYOND THE ABOVE STORM SEWER TRUNKLINE

DETAIL FOR CONCRETE CAP OVER SANITARY SEWER AT STA. 159'EB'+85, 11' RT

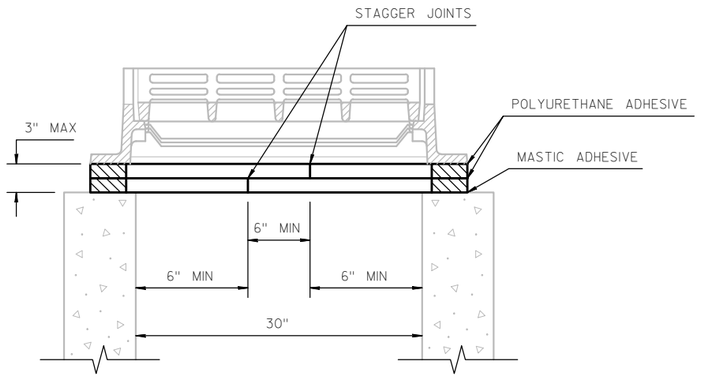


PLAN VIEW

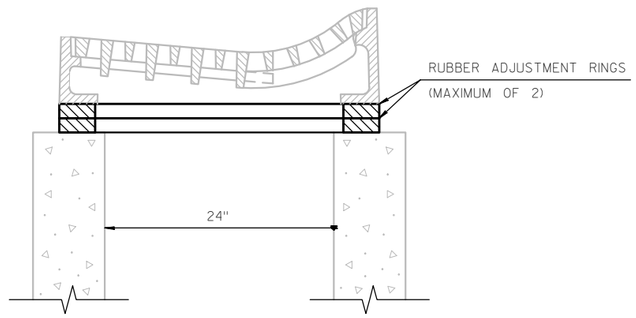
NOTE: ALL CUTS MADE TO RUBBER ADJUSTMENT RINGS WILL BE PERPENDICULAR AND PROVIDE A TIGHT JOINT.



DETAIL FOR PIPE UNDERDRAIN WRAPPED 6-INCH,
STA. 166'EB'+05 - STA. 172'EB'+70, RT



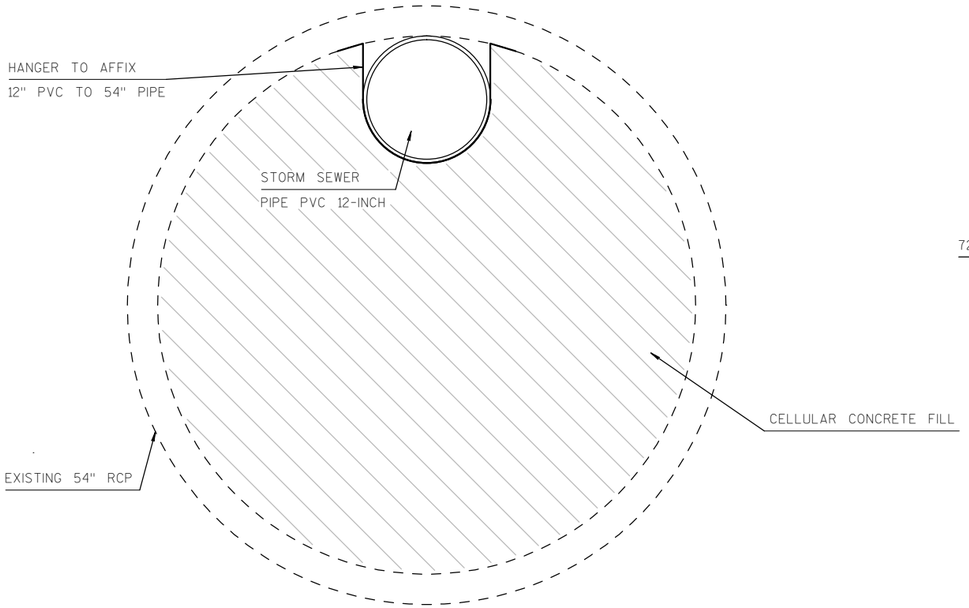
SECTION A-A



SECTION B-B

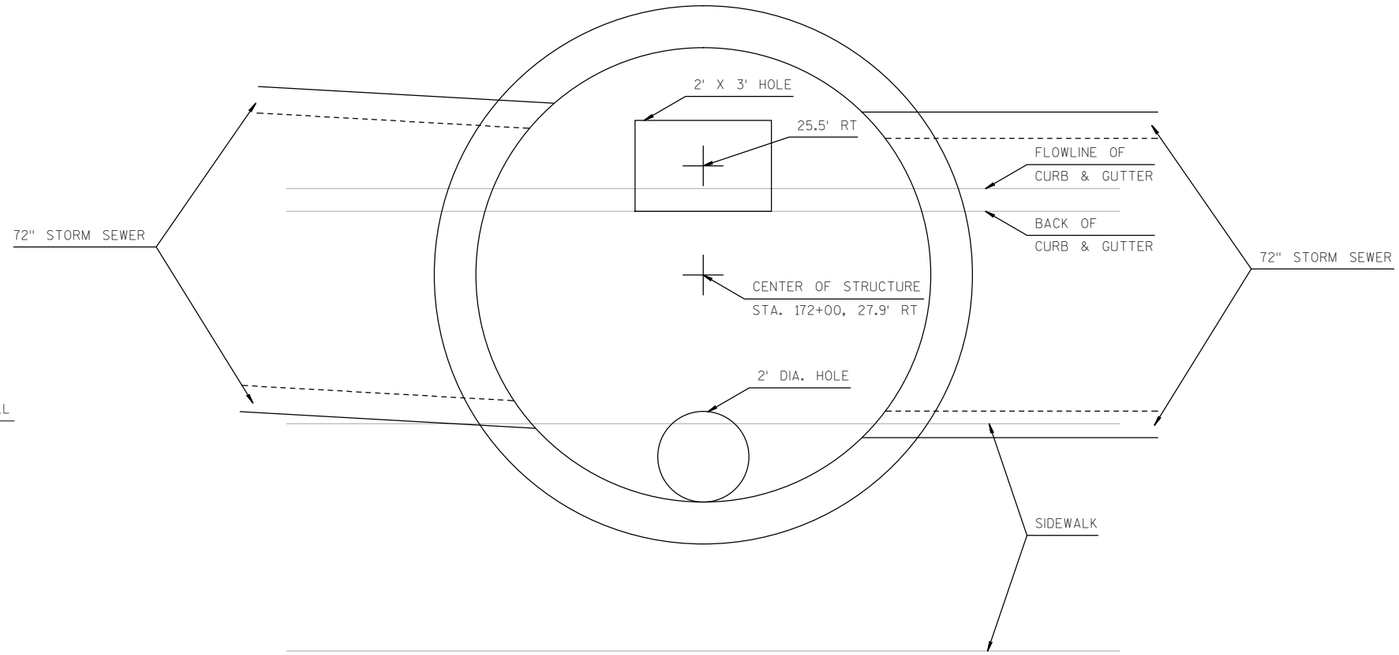
RUBBER RING CUTTING DETAIL FOR CATCH BASINS WITH TYPE 'T' CASTINGS

2

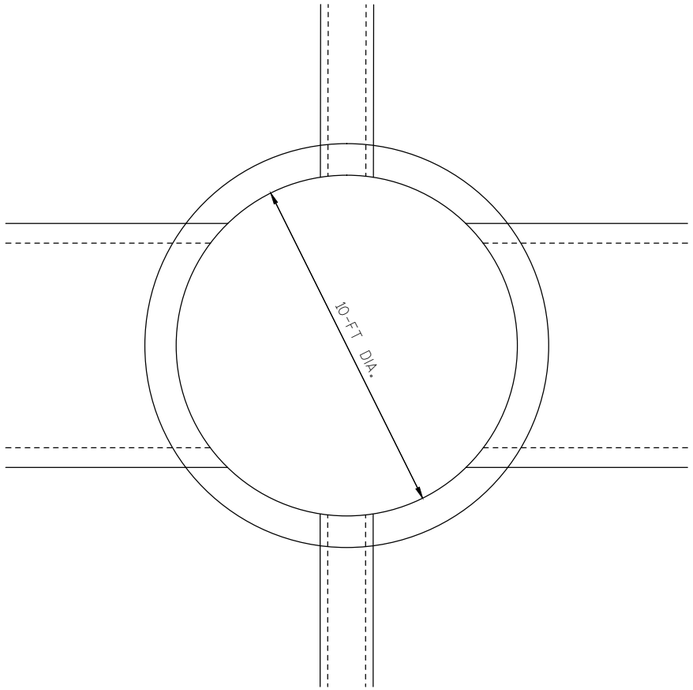


DETAIL FOR STORM SEWER PVC PIPE 12-INCH INSTALLED
IN CROWN OF EXISTING 54-INCH STORM SEWER
STA. 12'EG'+67, 151' LT TO MH-126.2

NOTE: CONNECTIONS TO PRIVATE LATERALS AND HANGERS NECESSARY TO ATTACHED PVC PIPE TO EXISTING STORM SEWER ARE INCIDENTAL TO THE ITEM STORM SEWER PIPE PVC 12-INCH



DETAIL FOR CASTING LOCATION AT MH-142.0
STA. 172+00, 27.9' RT



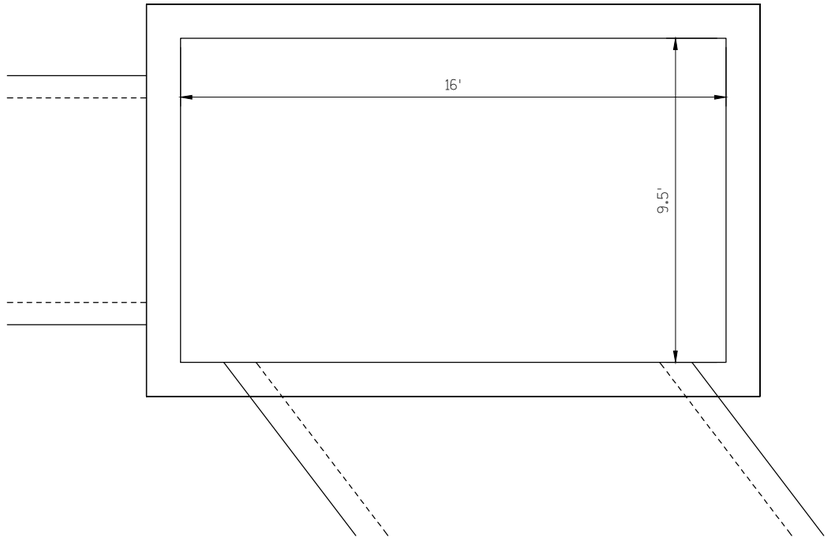
DETAIL FOR MANHOLES 10-FOOT DIAMETER SPECIAL

NOTES:

STRUCTURES AND REINFORCEMENT SHALL BE DESIGNED TO SUPPORT HS-20 LOADINGS

CONTRACTOR TO PROVIDE DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WISCONSIN FOR THE DESIGN OF THE MANHOLES

SEE STORM SEWER DETAILS FOR PIPE CONFIGURATIONS AND ELEVATIONS



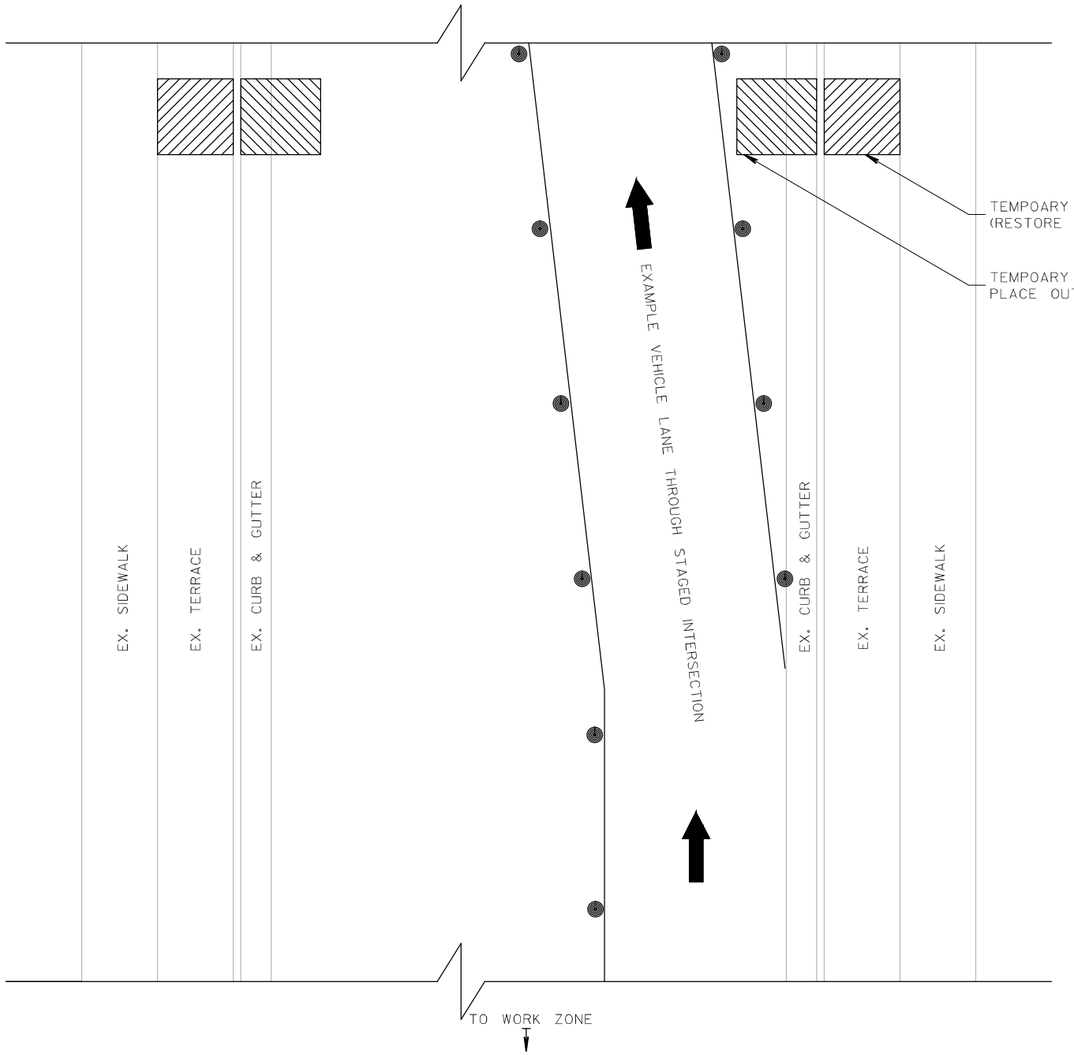
DETAIL FOR MANHOLES 9.5X16-FOOT SPECIAL

NOTES:

STRUCTURES AND REINFORCEMENT SHALL BE DESIGNED TO SUPPORT HS-20 LOADINGS

CONTRACTOR TO PROVIDE DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WISCONSIN FOR THE DESIGN OF THE MANHOLES

SEE STORM SEWER DETAILS FOR PIPE CONFIGURATIONS AND ELEVATIONS



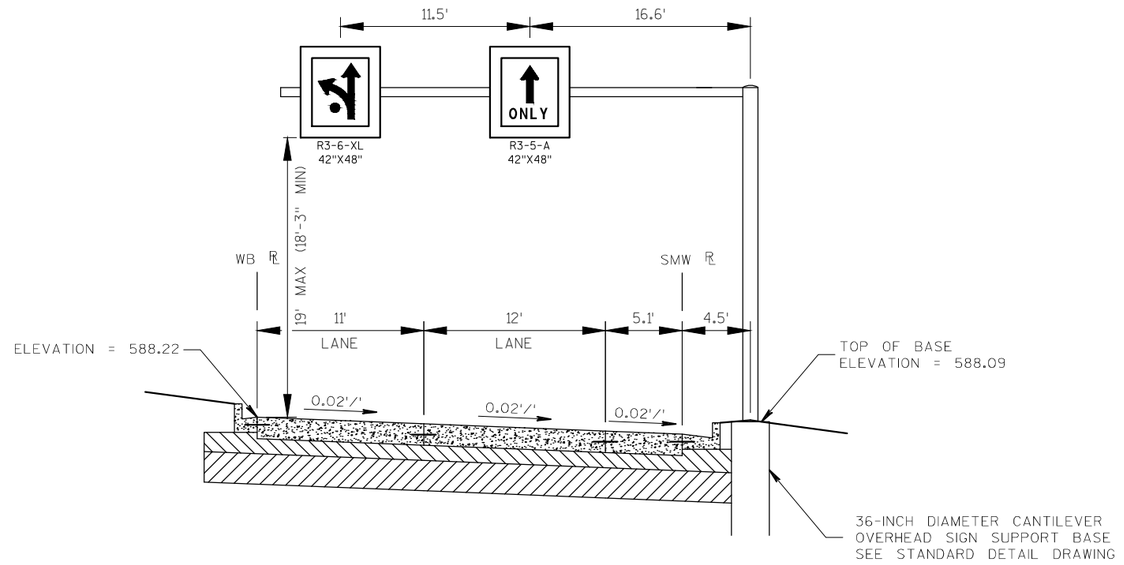
NOTES:

SEE APPROPRIATE STANDARD DETAIL DRAWINGS FOR ADDITIONAL REQUIREMENTS AND DETAIL OF TEMPORARY PEDESTRIAN SURFACE ASPHALT AND TEMPORARY CURB RAMPS.

PLACE TEMPORARY CROSSINGS TO AVOID INTERFERENCE WITH VEHICULAR TRAFFIC, EXISTING UTILITY INSTALLATIONS, EXISTING VEGETATION, ETC. TEMPORARY CROSSING LOCATIONS SHALL BE APPROVED BY THE ENGINEER.

TEMPORARY PEDESTRIAN CROSSING OUTSIDE OF CONSTRUCTION LIMITS AT A STAGED INTERSECTION

2



NOTES:

PROVIDE AN IDENTIFICATION PLAQUE FOR OVERHEAD SIGN SUPPORTS, TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN SUPPORT".

DESIGN NEW OVERHEAD SIGN SUPPORTS ACCORDING TO THE LATEST EDITION OF THE STATE OF WISCONSIN "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION" AND AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS", 6TH ADDITION AND INTERIM REVISIONS, FATIGUE CATEGORY I.

SIZE THE ANCHOR ROD/TEMPLATE ASSEMBLY TO FIT WITHIN THE BAR CAGE OF THE FOOTING BASE SHOWN IN THE CONTRACT PLANS IN ADDITION TO MEETING ALL APPLICABLE DESIGN REQUIREMENTS FOR THE DESIGN OF THE UPRIGHT BASE CONNECTION.

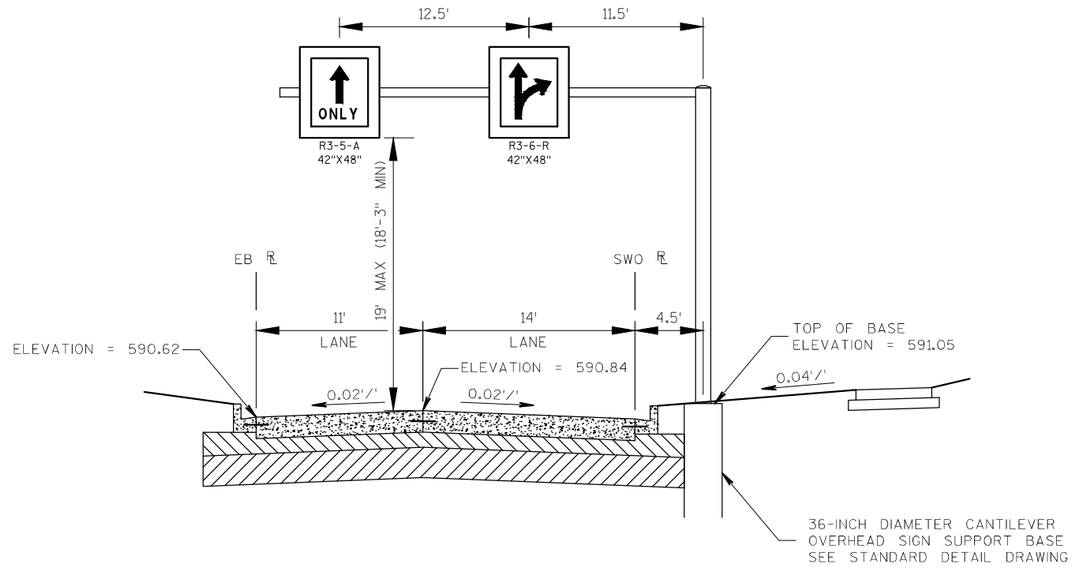
DESIGN THE STRUCTURE BASE PLATE CONNECTION TO ACCOMMODATE A MINIMUM OF SIX (6) ANCHOR RODS.

THE SIGN STRUCTURES SHALL BE DESIGNED TO SUPPORT THE THE SIGNS SHOWN.

OVERHEAD SIGN SUPPORTS DETAIL (LOOKING SOUTHWEST)

S-36-0018
STA. 192'WB'+78.4
STH 42 SB/MEMORIAL DRIVE

2



NOTES:

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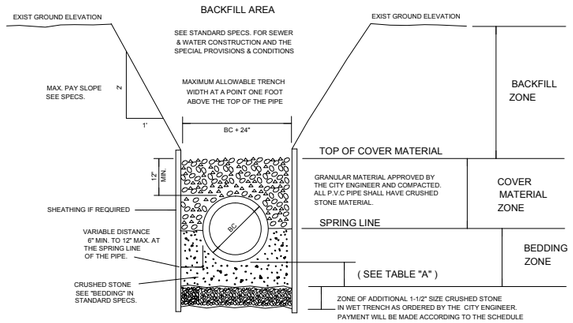
SIZE THE ANCHOR ROD/TEMPLATE ASSEMBLY TO FIT WITHIN THE BAR CAGE OF THE FOOTING BASE SHOWN IN THE CONTRACT PLANS IN ADDITION TO MEETING ALL APPLICABLE DESIGN REQUIREMENTS FOR THE DESIGN OF THE UPRIGHT BASE CONNECTION.

DESIGN THE STRUCTURE BASE PLATE CONNECTION TO ACCOMMODATE A MINIMUM OF SIX (6) ANCHOR RODS.

THE SIGN STRUCTURES SHALL BE DESIGNED TO SUPPORT THE THE SIGNS SHOWN.

OVERHEAD SIGN SUPPORTS DETAIL (LOOKING EAST)

S-36-0019
STA. 186'EB'+91.6
STH 42 NB/WALDO BOULEVARD

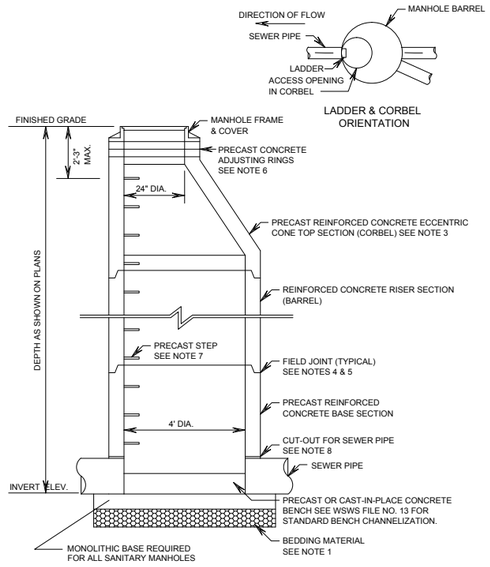


TYPICAL SECTION SHOWING
BEDDING AND BACKFILL REQUIREMENTS
FOR SANITARY AND STORM SEWER

TABLE "A"

PIPE DIAMETER	STONE THICKNESS
24" & OVER	8"
21"	7"
18"	6"
15"	5"
12" & UNDER	4"

1 TRENCH SECTION
NOT TO SCALE

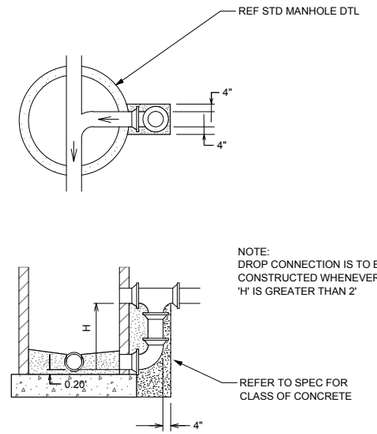


NOTES

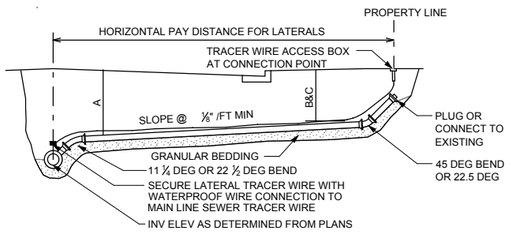
1. MANHOLE BASE SECTIONS SHALL BE PLACED ON AT LEAST 8" OF BEDDING MATERIAL CONFORMING TO WSWS 8.43.2 FOR DRY SUBGRADE AND WSWS 8.43.6 FOR WET SUBGRADE.
2. CONCRETE AND STEEL REINFORCEMENT SHALL CONFORM TO ASTM C-478 REQUIREMENTS.
3. PRECAST REINFORCED CONCRETE ECCENTRIC CONE TOPS (OFFSET CORBELS) MUST BE USED FOR MANHOLES OF DEPTHS GREATER THAN FIVE (5) FEET.

   IF THE MANHOLE DEPTH, AS MEASURED FROM THE TOP OF THE CASTING FRAME TO THE TOP OF THE MANHOLE BASE SLAB, IS LESS THAN 5 FEET, A FLAT PRECAST REINFORCED CONCRETE MANHOLE TOP SHALL BE USED INSTEAD OF A CORBEL SECTION. THE FLAT MANHOLE TOP SHALL BE PROVIDED WITH AN ECCENTRIC 24" DIAMETER OPENING FOR THE MANHOLE CASTING.
4. PRECAST REINFORCED CONCRETE RISER SECTIONS (BARRELS) MAY BE PLACED WITH TONGUE OR "D" JOINT ENDS EITHER UP OR DOWN.
5. ALL FIELD JOINTS AT MANHOLE PIECES SHALL BE WATERTIGHT AND SHALL BE MADE IN ACCORDANCE WITH WSWS 3.5.4(i).
6. PRECAST REINFORCED CONCRETE ADJUSTING RINGS SHALL BE USED TO ADJUST THE FRAME TO THE REQUIRED GRADE. A MINIMUM OF 4" AND A MAXIMUM OF 10" OF ADJUSTING RINGS AND MORTAR SHALL BE USED FOR THE ADJUSTMENT. MORTAR OR FLEXIBLE SEAL SHALL BE ..." MINIMUM THICKNESS BETWEEN EACH RING, RING AND STRUCTURE, AND RING AND FRAME. THE THICKNESS OF EACH GRADE RING SHALL RANGE FROM 2" MINIMUM TO 6" MAXIMUM. GRADE RINGS SHALL BE REINFORCED WITH AT LEAST ONE RING OF STEEL REBAR CENTERED WITHIN THE RING.
7. STEPS SHALL BE PRECAST INTO THE MANHOLE SECTIONS BY THE MANUFACTURER. THE STEPS SHALL MEET THE REQUIREMENTS OF WSWS 6.40.0. THE TOP STEP SHALL BE SET NO LESS THAN THREE (3) INCHES AND NO MORE THAN SIX (6) INCHES BELOW THE TOP OF THE CORBEL. THE STEPS SHALL BE EQUALLY SPACED VERTICALLY AT SIXTEEN (16) INCHES ON CENTER.
8. THE ENTIRE SPACE BETWEEN THE PIPE LEADS AND THE PRECAST MANHOLE WALL SHALL BE MORTARED OR CONCRETED IN PLACE BY THE CONTRACTOR. SOLID CONCRETE BRICKS MORTARED IN PLACE MAY BE USED AS A FILLER FOR STORM MANHOLES.
9. FOR DETAILS OF OUTSIDE DROP TYPE CONNECTIONS OF SEWER PIPE TO SANITARY MANHOLES SEE DETAIL WSWS FILE NO.19
10. ALL SANITARY MANHOLES SHALL HAVE A MONOLITHIC BASE.

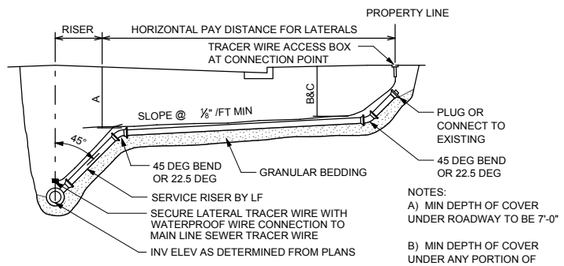
2 STANDARD SANITARY MANHOLE
NOT TO SCALE



3 MANHOLE DROP ENTRANCE
NOT TO SCALE



STANDARD INSTALLATION W/OUT RISER



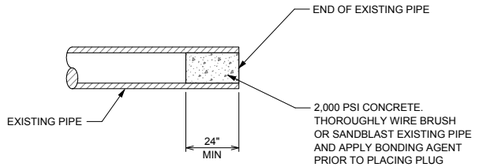
STANDARD INSTALLATION W/ RISER

NOTES:
A) MIN DEPTH OF COVER UNDER ROADWAY TO BE 7'-0"

B) MIN DEPTH OF COVER UNDER ANY PORTION OF GRASS AREAS TO 5'-0"

C) MIN DEPTH OF COVER AT PROPERTY LINE TO 9'-0" (12' DESIRABLE) OR AS REQUIRED TO SERVE EXISTING DEVELOPMENT.

4 SANITARY SEWER LATERAL
NOT TO SCALE

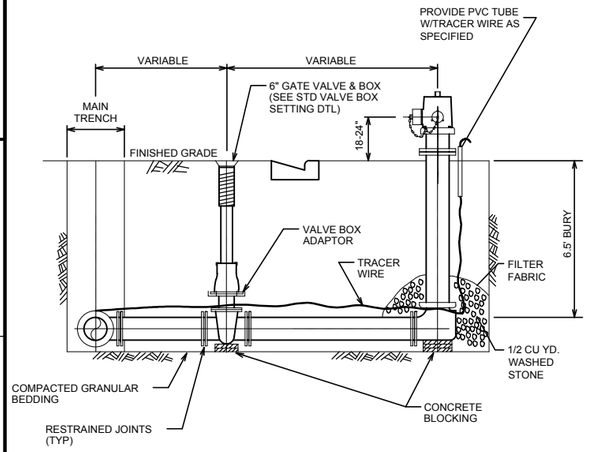


5 PIPE PLUG
NOT TO SCALE

PROJECT NO: 1500-37-72/4570-12-72	HWY: USH 10/STH 42	COUNTY: MANITOWOC	CONSTRUCTION DETAILS	SHEET 50	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\WM_SAN_WALDO_DETAILS.DWG PLOT DATE : 7/23/2018 4:35 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

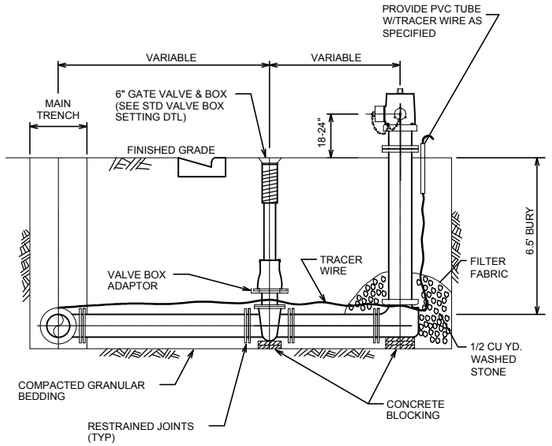


NOTE:

1. ENTIRE HYDRANT LEAD SHALL BE RESTRAINED FROM MAIN TO HYDRANT.
2. DUCTILE IRON FITTINGS, HYDRANT BARREL AND VALVE BOX SHALL BE WRAPPED WITH POLYETHYLENE ENCASEMENT.

6 STANDARD HYDRANT ASSEMBLY WALDO BLVD

NOT TO SCALE

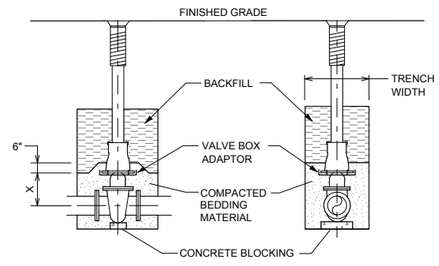


NOTE:

1. ENTIRE HYDRANT LEAD SHALL BE RESTRAINED FROM MAIN TO HYDRANT.
2. DUCTILE IRON FITTINGS, HYDRANT BARREL AND VALVE BOX SHALL BE WRAPPED WITH POLYETHYLENE ENCASEMENT.

7 STANDARD HYDRANT ASSEMBLY SIDE STREETS

NOT TO SCALE



SIDE VIEW

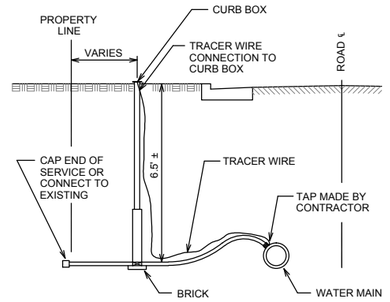
PIPE DIA (INCHES)	X=SETTING (INCHES)
2	6
3	7
4	8
6	12
8	13

FRONT VIEW

PIPE DIA (INCHES)	X=SETTING (INCHES)
10	17
12	21
14	25
16	30

8 STANDARD VALVE BOX SETTING

NOT TO SCALE

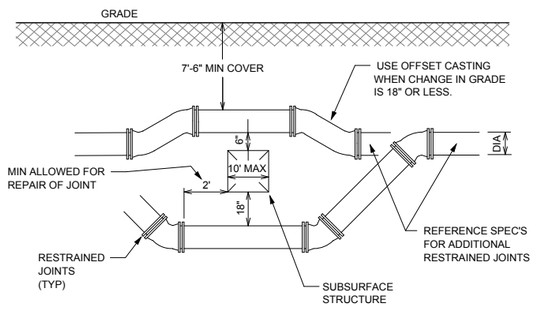


NOTE:

1. TAP WATER MAIN ON 45° WITH PIPE. MINIMUM HORIZONTAL DISTANCE BETWEEN CORP STOPS SHALL BE 3-FEET.
2. WATER SERVICES SHALL BE POLYETHYLENE UNLESS SHOWN OTHERWISE.

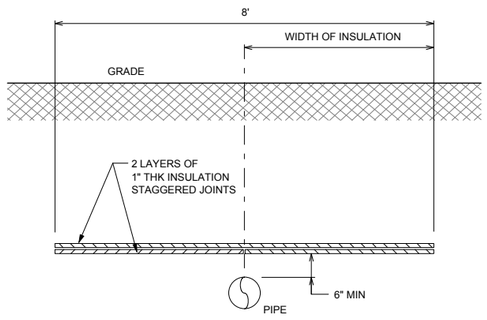
9 WATER SERVICE INSTALLATION

NOT TO SCALE



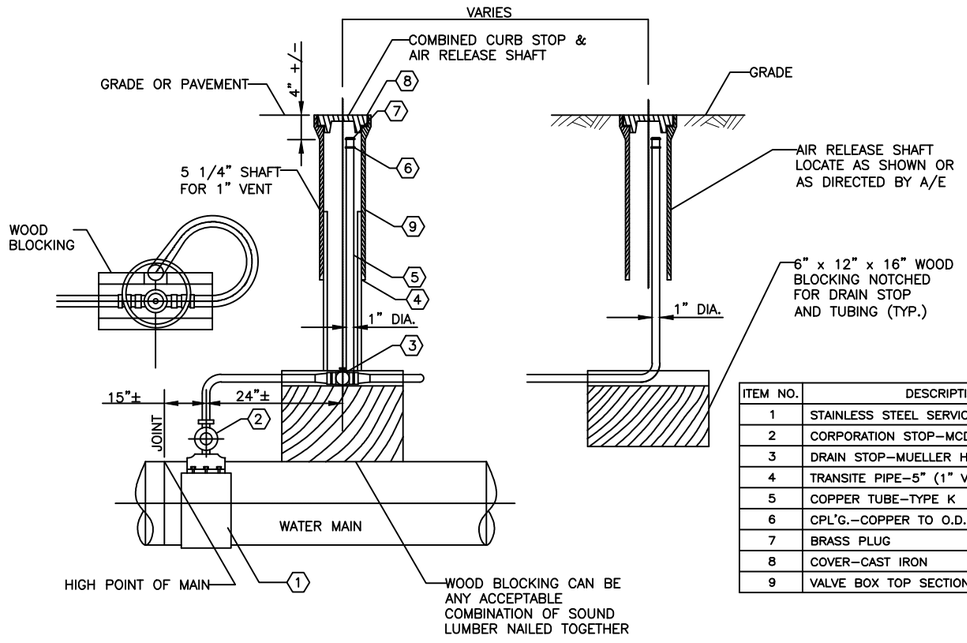
10 OFFSET W/RESTRAINED JOINTS (WATER MAIN AND FORCE MAIN)

NOT TO SCALE



11 TRENCH INSULATION

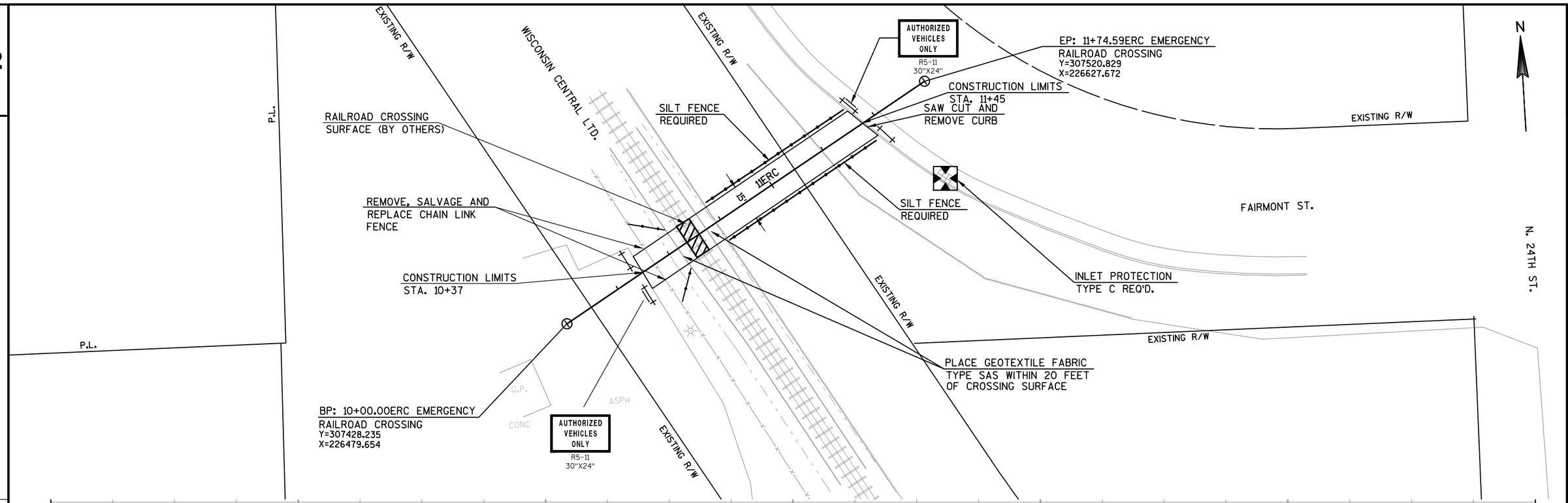
NOT TO SCALE

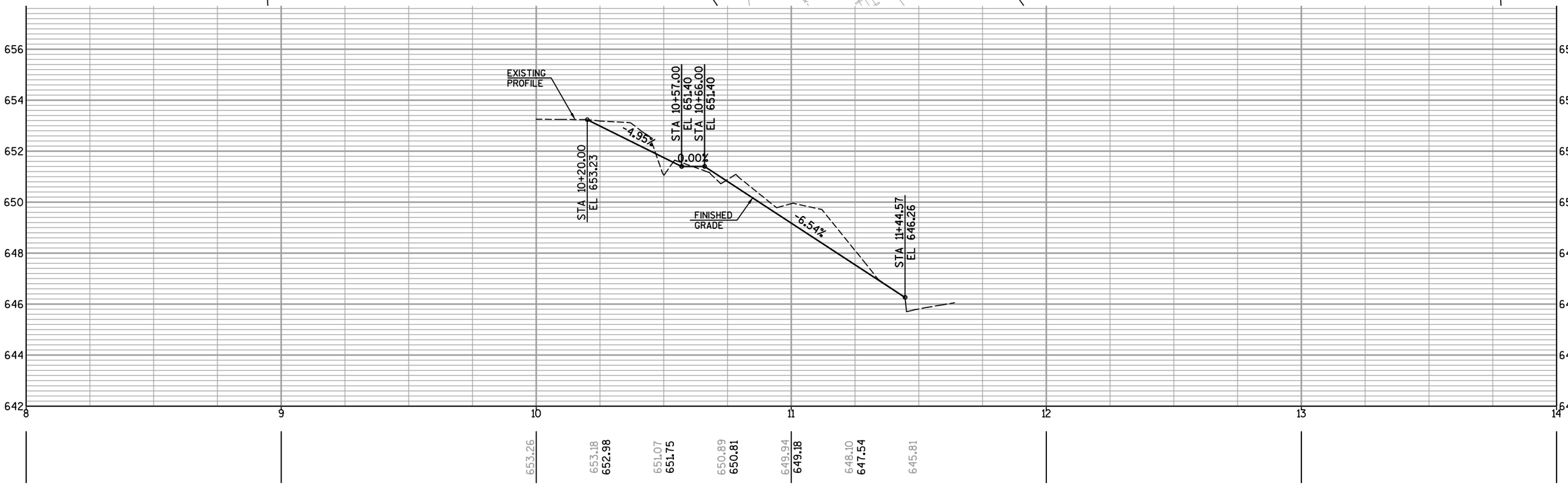


ITEM NO.	DESCRIPTION
1	STAINLESS STEEL SERVICE SADDLE (AS SPECIFIED)
2	CORPORATION STOP–MCDONALD
3	DRAIN STOP–MUELLER H–15214
4	TRANSITE PIPE–5" (1" VENT)
5	COPPER TUBE–TYPE K
6	CPL'G.–COPPER TO O.D. IRON
7	BRASS PLUG
8	COVER–CAST IRON
9	VALVE BOX TOP SECTION–CAST IRON

12 1" AIR RELEASE ASSEMBLY

NOT TO SCALE





PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CONSTRUCTION DETAIL-EMERGENCY VEHICLE RAILROAD CROSSING	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_021011 CD.DWG PLOT DATE : 4/12/2018 6:14 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

N

CONCRETE CURB AND GUTTER
30-INCH TYPE A REQ'D.

20'

XX
XXXXXXXX
XX

13FW

* CONCRETE DRIVEWAY
REQ'D.
STA. 13+05FW

EXISTING R/W

FLEETWOOD DR.

12FW

EXISTING R/W

HSE

G

SHED

BLDG.

CONC

* EXACT LOCATON TO BE DETERMINED BY ENGINEER

PROJECT NO:1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CONSTRUCTION DETAIL-CONCRETE DIVEWAY	SHEET 53	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_021013 CD.DWG PLOT DATE : 8/1/2018 2:29 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1in:40 ft_XREF

NOTE: CONCRETE MEDIAN SLOPED
NOSES ARE TYPE 1 UNLESS OTHERWISE NOTED.

CONCRETE CURB AND GUTTER
18-INCH INTEGRAL REQ'D.

R/W LINE

CONSTRUCTION LIMITS
STA. 10+75

CONCRETE CURB AND GUTTER
30-INCH TYPE A REQ'D.

FENCE CHAIN LINK
POLYMER COATED 6-FT
REQUIRED

REMOVE FENCE
STA. 70+00-STA. 71+62

EXISTING R/W

CURB RAMP
TYPE 1 REQ'D.
TREE (TO
REMAIN)

CONCRETE SIDEWALK
4-INCH REQ'D.

BURIED TELEPHONE
(APPROXIMATE LOCATION)
AT&T

BURIED GAS LINE
(APPROXIMATE LOCATION)

BURIED ELECTRIC
(APPROXIMATE LOCATION)

USH 10/STH 42

S88°17'08"E

70+00.0 EB
4.1' LT.

FLEETWOOD DR.

N 3°40'08" E

11FW

10FW

9FW

EXISTING R/W

CONCRETE CURB AND GUTTER
30-INCH TYPE A REQ'D.

BURIED GAS LINE
(APPROXIMATE LOCATION)

EXISTING R/W

PI: 72+85.47WB
Y=306988.995
X=225792.875

BURIED FIBER OPTIC
(APPROXIMATE LOCATION)

SLOPE
INTERCEPT

CONCRETE CURB AND GUTTER
18-INCH INTEGRAL REQ'D.

CONCRETE SIDEWALK
4-INCH REQ'D.

74+90.4
-30.8 WB

CURB RAMP
TYPE 1 REQ'D.

24.3'

31.3

14'

11'

10'

5'

4.33'

VARIES

S87°25'29"E

S89°17'04"E

74+90.1
30.8 EB

69WB 70WB 71WB 72WB 73WB 74WB 75WB

69EB 70EB 71EB 72EB 73EB 74EB 75EB

BURIED TELEPHONE
(APPROXIMATE LOCATION)

FENCE CHAIN LINK
POLYMER COATED 6-FT
REQUIRED

P.L.

R/W LINE

EXISTING R/W

CONCRETE CURB AND GUTTER
18-INCH INTEGRAL REQ'D.

REMOVE FENCE
STA. 70+00-STA. 71+00

REMOVE
FENCE

STRUCTURE B-36-0232
REQUIRED

CURB RAMP
TYPE 7 REQ'D.

REMOVE AND
REPLACE PAVERS

PI: 72+85.47EB
Y=306965.002
X=225792.157

SLOPE
INTERCEPT

CONCRETE SIDEWALK
4-INCH REQ'D.

CONCRETE CURB AND GUTTER
18-INCH INTEGRAL REQ'D.

STA. 72+40.94WB USH 10/STH 42=
STA. 10+00.00FW FLEETWOOD DR.
Y=306990.328
X=225748.362

EXISTING R/W

BEGIN PROJECT 1500-37-71
STA. 70+00.00
Y=306973.548
X=225506.812

USH 10 EASTBOUND &
ALL POINTS ARE TO FACE OF CURB

POINT	STATION	OFFSET	RADIUS	POINT	STATION	OFFSET	RADIUS
4	70+00.00	4.09 LT	---	14	72+05.97	85.33 LT	35'
5	70+82.26	12.00 LT	---	15	71+70.97	85.00 LT	35'
6	71+64.22	12.00 LT	59'	16	72+67.02	99.00 LT	24'
7	71+88.18	18.10 LT	2'	17	72+65.41	89.70 LT	24'
8	71+67.96	23.00 LT	59'	18	72+91.00	90.26 LT	24'
9	72+71.41	10.93 LT	2'	19	72+65.43	88.60 LT	40'
10	73+03.75	22.41 LT	59'	20	73+05.72	49.36 LT	40'
11	73+01.02	1.00 LT	59'	21	72+65.43	88.60 LT	40'
12	72+85.47	26.00 RT	---				
13	71+70.97	50.00 LT	35'				

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN DETAIL	SHEET 54	E

2

N

EXISTING R/W

BURIED GAS LINE
(APPROXIMATE LOCATION)

CAUTION

CONCRETE CURB AND GUTTER
18-INCH INTEGRAL REQ'D.

BURIED FIBER OPTIC
(APPROXIMATE LOCATION)

CONCRETE CURB AND GUTTER
18-INCH TYPE A REQ'D.

CONCRETE SIDEWALK
4-INCH REQ'D.

PI= 79+01.63
Y=306961.311
X=226408.414

75+88.9
-33.54'

MGS TERMINAL
TYPE 2 REQ'D.

SLOPE
INTERCEPT

79+01.9
-33.50'

CONCRETE CURB AND GUTTER
18-INCH INTEGRAL REQ'D.

CONCRETE CURB AND GUTTER
18-INCH TYPE A REQ'D.

5'
2'
6'
14'
11'
14'
11'

75WB
USH 10/STH 42
75EB
76WB
76EB
77WB
77EB
S87°25'29"E
S89°17'04"E
78WB
78EB
79WB
79EB
80WB
80EB
S88°16'16"E
S88°16'16"E
81WB
81EB

BEGIN CONCRETE SIDEWALK
4-INCH REQ'D. STA. 77+50
EB.

2'
5'
6'
6'
6'
6'

75+37.1
36.27'

75+90.1
33.50'

79+01.4
33.50'

BURIED ELECTRIC
(APPROXIMATE LOCATION)

CONCRETE SIDEWALK
4-INCH REQ'D.

CONCRETE CURB AND GUTTER
18-INCH INTEGRAL REQ'D.

CONCRETE CURB AND GUTTER
18-INCH TYPE A REQ'D.

CONCRETE CURB AND GUTTER
18-INCH TYPE A REQ'D.

SLOPE
INTERCEPT

PI= 79+01.66
Y=306957.313
X=226408.292

CONCRETE CURB AND GUTTER
18-INCH INTEGRAL REQ'D.

MGS GUARDRAIL
TERMINAL EAT REQ'D.

EXISTING R/W

P.L.

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN DETAIL	SHEET 55	E

2

N

BURIED GAS LINE (APPROXIMATE LOCATION)

CAUTION

BURIED ELECTRIC (APPROXIMATE LOCATION)

BURIED FIBER OPTIC (APPROXIMATE LOCATION)

BURIED FIBER OPTIC (APPROXIMATE LOCATION)

EXISTING R/W

EXISTING R/W

EXISTING R/W

EXISTING R/W

EXISTING R/W

EXISTING R/W

TREES

TRANS

CONCRETE APPROACH SLAB REQ'D.

MGS THRIE BEAM TRANSITION REQ'D.

CONCRETE CURB AND GUTTER 18-INCH TYPE A REQ'D.

REDECK STRUCTURE B-36-0029 (SEE STRUCTURE PLANS)

81+89.60 -33.50'

CONCRETE CURB AND GUTTER 18-INCH TYPE A REQ'D.

CONCRETE APPROACH SLAB REQ'D.

MGS THRIE BEAM TRANSITION REQ'D.

SLOPE INTERCEPT

CONCRETE SIDEWALK 4-INCH REQ'D.

84+76.63 -33.50'

CONCRETE CURB AND GUTTER 18-INCH INTEGRAL REQ'D.

CONCRETE CURB AND GUTTER 18-INCH TYPE A REQ'D.

6'

14'

11'

25'

USH 10/STH 42

81WB

81EB

4'

11'

14'

82WB

82EB

25'

15'

83WB

83EB

S88°16'16"E

S88°16'16"E

84WB

84EB

85WB

85EB

15'

25'

86WB

86EB

87WB

87EB

MH

12"SS

6'

81+89.75 33.50'

MGS THRIE BEAM TRANSITION REQ'D.

CONCRETE APPROACH SLAB REQ'D.

CONCRETE CURB AND GUTTER 18-INCH TYPE A REQ'D.

84+77.51 33.50'

CONCRETE SIDEWALK 4-INCH REQ'D.

CONCRETE APPROACH SLAB REQ'D.

CONCRETE CURB AND GUTTER 18-INCH TYPE A REQ'D.

MGS THRIE BEAM TRANSITION REQ'D.

SLOPE INTERCEPT

CONCRETE CURB AND GUTTER 18-INCH TYPE A REQ'D.

CONCRETE CURB AND GUTTER 18-INCH INTEGRAL REQ'D.

PLAYGROUND

EXISTING R/W

EXISTING R/W

TREES

P.L.

EXISTING R/W

TREES

EXISTING R/W

P.L.

P.L.

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN DETAIL	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_021203_PD.DWG PLOT DATE : 8/14/2017 12:46 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1in:40 ft_XREF

NOTE: CONCRETE MEDIAN SLOPED
NOSES ARE TYPE 1 UNLESS OTHERWISE NOTED.

EXISTING R/W

BURIED FIBER OPTIC
(APPROXIMATE LOCATION)

CONCRETE CURB AND GUTTER
18-INCH INTEGRAL REQ'D.

SLOPE
INTERCEPT

CONCRETE SIDEWALK
4-INCH REQ'D.

PI: 89+49.20
Y=306929.708
X=227455.504

89+52.0
-33.5

89+67.5
-33.5

CAUTION
BURIED GAS LINE
(APPROXIMATE LOCATION)

MGS GUARDRAIL
TERMINAL EAT REQ'D.

90+18.6
-34.5

CONCRETE CURB AND GUTTER
18-INCH TYPE A REQ'D.

BURIED TELEPHONE
(APPROXIMATE LOCATION)

CAUTION
BURIED GAS LINE
(APPROXIMATE LOCATION)

CONCRETE SIDEWALK
4-INCH REQ'D.

87WB
88WB
89WB
90WB
91WB
92WB
93WB

S88°16'16"E
S89°41'48"E

87EB
88EB
89EB
90EB
91EB
92EB
93EB

S88°16'16"E
S86°43'40"E

USH 10/STH 42

14'
11'
4'
6'
9'

CONCRETE SIDEWALK
4-INCH REQ'D.
CONCRETE CURB AND GUTTER
18-INCH INTEGRAL REQ'D.

SLOPE
INTERCEPT

89+50.1
33.5

Pt. 89+49.22
Y=306925.710
X=227455.376

MGS TERMINAL
TYPE 2 REQ'D.

90+39.2
33.5

BURIED ELECTRIC
(APPROXIMATE LOCATION)

CAUTION
BURIED GAS LINE
(APPROXIMATE LOCATION)

EXISTING R/W

USH 10 EASTBOUND
ALL POINTS ARE TO FACE OF CURB

STATION & OFFSET TABLE			
POINT	STATION	OFFSET	RADIUS
5	89+49.2	1.00'LT	---
6	89+49.2	3.00'LT	---
7	90+93.1	1.00' LT	---
8	91+81.1	12.00' LT	---
9	92+91.5	20.75' LT	59'
10	92+85.5	12.00' LT	59'
11	93+05.7	17.71' LT	2'

P.L.
HSE
PORCH
SHED
TREES
G
GUY
MH
OH
SAN
54"SS
15"SS
12"SS
FLAG

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN DETAIL	SHEET 57	E

2

PI STA. 93+35.21WB USH 10/STH 42
Y=306927.664
X=227841.503

STA. 93+49.93WB USH 10/STH 42=
STA. 10+24.10NTR N. 23RD ST.
Y=306927.224
X=227856.218

EXISTING R/W

CONSTRUCTION LIMITS
STA. 10+95NTR

CURB RAMP
TYPE 1 REQ'D.

N. 23RD ST.

N01°13'16"W

9NTR

10NTR

NOTE: CONCRETE MEDIAN SLOPED NOSES ARE TYPE 1 UNLESS OTHERWISE NOTED.

CONCRETE CURB AND GUTTER
18-INCH INTEGRAL REQ'D.

P.L.

TLE LINE

BURIED TELEPHONE
(APPROXIMATE LOCATION)

CONCRETE SIDEWALK
4-INCH REQ'D.

SLOPE
INTERCEPT

CAUTION

BURIED GAS LINE
(APPROXIMATE LOCATION)

EXISTING R/W

93WB S89°41'48"E

94WB 95WB 96WB S88°17'07"E 97WB 98WB 99WB

USH 10/STH 42

93EB S86°43'40"E

95EB 96EB S88°17'07"E 97EB 98EB 99EB

94EB

26'

16.2'

16.6'

5'

14'

11'

10'

4.33'

21'

CONSTRUCTION LIMITS
STA. 9+40NTR

N00°22'54"W

CONCRETE CURB AND GUTTER
18-INCH INTEGRAL REQ'D.

CONCRETE SIDEWALK
4-INCH REQ'D.

CURB RAMP
TYPE 4B1 REQ'D.
WITH RADIAL
DETECTABLE WARNING
FIELD

MENCHL DR.

8MC

9MC

STA. 93+52.12EB USH 10/STH 42=
STA. 10+00.00NTR N. 23RD ST.
Y=306903.169
X=227857.692

PI STA. 93+35.25EB USH 10/STH 42=
Y=306903.675
X=227840.785

8+26.17

USH 10 EASTBOUND
ALL POINTS ARE TO FACE OF CURB

STATION & OFFSET TABLE				STATION & OFFSET TABLE			
POINT	STATION	OFFSET	RADIUS	POINT	STATION	OFFSET	RADIUS
1	92+88.5	47.6' LT	30'	14	92+85.5	12.0' LT	59'
2	93+16.8	79.9' LT	30'	15	93+05.7	17.7' LT	2'
3	92+86.9	77.6' LT	30'	16	93+91.6	5.5' LT	2'
4	93+65.4	78.5' LT	30'	17	94+13.9	12.0' LT	59'
5	93+95.3	80.0' LT	30'	18	94+08.2	1.0' LT	59'
6	93+95.3	50.0' LT	30'	19	94+70.1	12.0' LT	---
7	93+97.6	26.0' RT	25'	20	95+58.1	23.0' LT	---
8	93+97.6	51.0' RT	25'	21	98+66.5	23.0' LT	59'
9	93+72.6	51.6' RT	25'	22	99+03.8	7.1' LT	2'
10	93+35.3	49.0' RT	25'	23	98+82.7	1.0' LT	59'
11	93+11.7	51.0' RT	25'	24	98+81.5	26.0' RT	25'
12	93+11.7	26.0' RT	25'	25	99+03.6	62.7' RT	25'
13	92+91.4	20.8' LT	59'	26	98+81.5	51.0' RT	25'

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN DETAIL	SHEET 58	E

NOTE: CONCRETE MEDIAN SLOPED NOSES ARE TYPE 1 UNLESS OTHERWISE NOTED.

STA. 99+44.55EB USH 10/STH 42=
STA. 10+00.00MC MENCHL DR.
Y=306885.444
X=228449.804

STA. 102+99.01WB USH 10/STH 42=
STA. 10+24.00TF N. 21ST ST.
Y=306898.826
X=228804.879

STA. 102+99.54EB USH 10/STH 42=
STA. 10+00.00TF N. 21ST ST.
Y=306874.823
X=228804.635

WISCONSIN CENTRAL LTD.

EXISTING R/W

P.L.

N00°34'49"E N. 21ST ST.

CONSTRUCTION LIMITS
STA. 11+00TF

CONSTRUCTION LIMITS
STA. 9+10 MC

CONSTRUCTION LIMITS
STA. 9+35TF

CAUTION BURIED GAS LINE (APPROXIMATE LOCATION)

BURIED TELEPHONE CABLE (APPROXIMATE LOCATION)

BURIED ELECTRIC (APPROXIMATE LOCATION)

CURB RAMP TYPE 1 REQ'D.

CURB RAMP TYPE 4B1 REQ'D. WITH RADIAL DETECTABLE WARNING FIELD

CONCRETE CURB AND GUTTER 18-INCH INTEGRAL REQ'D.

CONCRETE SIDEWALK 4-INCH REQ'D.

SLOPE INTERCEPT

REMOVE CONC. BASE

TLE LINE

99WB 100WB 101WB 102WB 103WB 104WB 105WB

99EB 100EB 101EB 102EB 103EB 104EB 105EB

S88°17'07"E

USH 10/STH 42

PT: 9+87.52

IPC: 9+42.95

10MC

9MC

9TF

MENCHL DR.

N. 21ST ST.

USH 10 EASTBOUND & ALL POINTS ARE TO FACE OF CURB

STATION & OFFSET TABLE				STATION & OFFSET TABLE			
POINT	STATION	OFFSET	RADIUS	POINT	STATION	OFFSET	RADIUS
1	99+03.8	62.7' RT	25'	12	102+40.3	23.0' LT	59'
2	99+70.0	51.0' RT	25'	13	102+58.8	17.9' LT	2'
3	99+46.9	41.5' RT	25'	14	102+55.2	50.0' LT	25'
4	99+70.0	26.0' RT	25'	15	102+80.2	75.5' LT	25'
5	99+03.8	7.1' LT	2'	16	102+55.2	75.0' LT	25'
6	99+70.3	14.4' LT	2'	19	103+16.2	74.4' LT	25'
7	99+96.9	23.0' LT	59'	20	103+41.2	50.0' LT	25'
8	100+04.5	1.0' LT	59'	21	102+57.6	26.0' RT	25'
9	101+02.0	1.0' LT	---	22	102+82.6	50.4' RT	25'
10	101+90.0	12.0' LT	---	23	102+57.6	51.0' RT	25'
11	102+38.1	12.0' LT	59'	24	103+18.3	51.5' RT	25'

USH 10 EASTBOUND & ALL POINTS ARE TO FACE OF CURB

STATION & OFFSET TABLE			
POINT	STATION	OFFSET	RADIUS
25	103+43.3	26.0' RT	25'
26	103+43.3	51.0' RT	25'
29	103+39.8	6.1' LT	22'
30	103+60.5	12.0' LT	59'
31	103+58.1	1.0' LT	59'
32	104+09.2	12.0' LT	---
33	104+97.2	23.0' LT	---
35	103+41.2	75.0' LT	25'

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN DETAIL	SHEET 59	E

NOTE: CONCRETE MEDIAN SLOPED
NOSES ARE TYPE 1 UNLESS OTHERWISE NOTED.

STA. 106+52.40WB USH 10/STH 42=
STA. 10+24.33SPR PARK ROW BLVD.
Y=306888.253
X=229158.109

STA. 106+56.43EB USH 10/STH 42=
STA. 10+00.00SPR N. 20TH ST.
Y=306864.144
X=229161.366

STA. 107+56.10WB USH 10/STH 42=
STA. 10+00.00NPR PARK ROW BLVD.
Y=306885.150
X=229261.765

STA. 109+97.37WB USH 10/STH 42=
STA. 10+00.00ELM ELM ST.
Y=306877.931
X=229502.921

CONSTRUCTION LIMITS
STA. 10+85SPR

CONSTRUCTION LIMITS
STA. 10+60NPR

CONSTRUCTION LIMITS
STA. 10+40SPR

CONSTRUCTION LIMITS
STA. 10+65ELM

CURB RAMP
TYPE 4B1 REQ'D.

CURB RAMP
TYPE 1 REQ'D.

CONCRETE CURB AND GUTTER
18-INCH INTEGRAL REQ'D.

CONCRETE SIDEWALK
4-INCH REQ'D.

SLOPE
INTERCEPT

BURIED TELEPHONE
(APPROXIMATE LOCATION)

BURIED ELECTRIC
(APPROXIMATE LOCATION)

BURIED GAS LINE
(APPROXIMATE LOCATION)

CAUTION

USH 10 EASTBOUND &
ALL POINTS ARE TO FACE OF CURB

STATION & OFFSET TABLE				STATION & OFFSET TABLE				STATION & OFFSET TABLE				STATION & OFFSET TABLE				STATION & OFFSET TABLE			
POINT	STATION	OFFSET	RADIUS	POINT	STATION	OFFSET	RADIUS	POINT	STATION	OFFSET	RADIUS	POINT	STATION	OFFSET	RADIUS	POINT	STATION	OFFSET	RADIUS
1	105+90.8	1.0' LT	59'	12	106+75.5	51.6' RT	25'	23	106+82.8	11.9' LT	2'&59'	34	107+93.9	50.0' LT	25'	46	110+33.0	76.2' LT	21.7'
2	105+96.3	23.0' LT	59'	13	106+39.8	50.4' RT	25'	24	107+36.5	17.8' LT	2'&59'	35	107+85.8	11.2' LT	2'	47	110+11.3	75.9' LT	21.7'
3	106+24.1	13.7' LT	2'	14	106+14.8	51.0' RT	25'	25	107+34.4	20.0' LT	2'	36	108+15.2	1.0' LT	59'	48	110+11.3	74.4' LT	25'
4	106+12.6	50.0' LT	25'	15	106+14.8	26.0' RT	25'	26	107+34.4	23.0' LT	2'&59'	37	108+17.7	23.0' LT	59'	49	110+36.3	75.0' LT	25'
5	106+12.6	75.0' LT	25'	16	106+84.0	10.3' LT	2'	27	106+95.2	60.0' LT	59'	39	109+35.1	1.0' LT	59'	50	110+36.3	50.0' LT	25'
6	106+37.6	75.4' LT	25'	17	107+02.0	1.8' LT	9'&59'	28	107+11.8	60.0' LT	59'	40	109+37.0	23.0' LT	59'	51	110+26.9	11.4' LT	2'
7	106+65.9	54.9' LT	5'	18	107+05.0	1.8' LT	9'&59'	29	107+36.1	50.0' LT	5'	41	109+66.8	12.6' LT	2'	52	110+56.7	1.0' LT	59'
8	106+70.9	55.0' LT	5'	19	107+03.5	10.7' LT	9'	30	107+36.1	55.0' LT	5'	42	109+56.6	50.0' LT	25'	53	110+58.6	23.0' LT	59'
9	106+70.9	50.0' LT	5'	20	107+17.3	23.0' LT	59'	31	107+41.1	55.1' LT	5'	43	109+56.6	75.0' LT	25'				
10	107+00.5	26.0' RT	25'	21	107+17.3	36.0' RT	59'	32	107+68.9	74.2' LT	25'	44	109+81.6	75.4' LT	25'				
11	107+00.5	51.0' RT	25'	22	106+83.0	8.5' LT	2'&59'	33	107+93.9	75.0' LT	25'	45	110+14.9	88.2' LT	21.7'				

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN DETAIL	SHEET 60	E

NOTE: CONCRETE MEDIAN SLOPED
NOSES ARE TYPE 1 UNLESS OTHERWISE NOTED.

EXISTING R/W

CLERMONT ST.

CAUTION — BURIED GAS LINE (APPROXIMATE LOCATION)

CONCRETE CURB AND GUTTER
18-INCH INTEGRAL REQ'D.

BURIED TELEPHONE (APPROXIMATE LOCATION)

CONCRETE SIDEWALK
4-INCH REQ'D.

SLOPE INTERCEPT

CONCRETE CORRUGATED
MEDIAN 5-WIDE REQ'D.

CONCRETE SIDEWALK
4-INCH REQ'D.

USH 10/STH 42

111WB 112WB S88°17'07"E 113WB 114WB 115WB 116WB 117WB

111EB 112EB S88°17'07"E 113EB 114EB 115EB 116EB 117EB

BURIED ELECTRIC (APPROXIMATE LOCATION)

5' 14' 11' 4.33' 21'

EXISTING R/W

TLE LINE

CAUTION — BURIED GAS LINE (APPROXIMATE LOCATION)

CONCRETE CURB AND GUTTER
18-INCH INTEGRAL REQ'D.
USH 10 EASTBOUND &
ALL POINTS ARE TO FACE OF CURB

STATION & OFFSET TABLE			
POINT	STATION	OFFSET	RADIUS
1	113+86.4	1.0' LT	---
2	115+14.4	17.0' LT	---
7	114+75.1	0.0'	---
8	115+15.1	5.0' LT	---
9	115+15.1	0.0'	---

SLOPE INTERCEPT

CONCRETE SIDEWALK
4-INCH REQ'D.

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN DETAIL	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_021208_PD.DWG PLOT DATE : 8/14/2017 1:08 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 42

2

USH 10 EASTBOUND ℄

STATION & OFFSET TABLE			
POINT	STATION	OFFSET	RADIUS
42	117+75.9	0.0'	---
43	117+75.9	5.0' LT	---
44	118+67.8	24.0' LT	---
45	118+67.8	19.0' LT	---
46	120+81.8	24.0' LT	---
47	120+81.8	19.0' LT	---
48	121+29.3	24.0' LT	---

NOTE: CONCRETE MEDIAN SLOPED NOSES ARE TYPE 1 UNLESS OTHERWISE NOTED.

EXISTING R/W

N. 18TH ST. N00°04'00"E 3.44'

CONSTRUCTION LIMITS STA. 11+15ET

CURB RAMP TYPE 1 REQ'D.

STA. 118+23.72WB USH 10/STH 42= STA. 10+24.14ET N. 18TH ST. Y=306853.704 X=230328.918

CURB RAMP TYPE 1 REQ'D. CONCRETE CURB 6-INCH REQ'D.

CONCRETE CORRUGATED MEDIAN 5-WIDE REQ'D.

SLOPE INTERCEPT

TLE LINE

EXISTING R/W

STA. 122+07.11WB USH 10/STH 42= STA. 10+00.00SV N. 17TH ST. Y=306848.656 X=230712.268

CONCRETE CURB AND GUTTER 18-INCH INTEGRAL REQ'D.

CONCRETE SIDEWALK 4-INCH REQ'D.

BURIED TELEPHONE CABLE (APPROXIMATE LOCATION)

CURB RAMP TYPE 1 REQ'D.

N. 17TH ST. N00°44'07"E

11SV

CONSTRUCTION LIMITS STA. 10+98SV

CURB RAMP TYPE 1 REQ'D.

TLE LINE

PI=117+93.98WB USH 10/STH 42= Y=306854.096 X=230299.177

CONCRETE SIDEWALK 4-INCH REQ'D.

117WB S88°17'07"E USH 10/STH 42

118WB 119WB S89°14'44"E 120WB 121WB 122WB 123WB

118EB 119EB 120EB 121EB 122EB 123EB

S88°17'07"E S89°14'44"E

CONCRETE CORRUGATED MEDIAN 5-WIDE REQ'D.

CONCRETE SIDEWALK 4-INCH REQ'D.

TLE LINE

CONCRETE SIDEWALK 4-INCH (PAVE TO RETAINING WALL-DO NOT DISTURB WALL)

CURB RAMP TYPE 1 REQ'D.

CURB RAMP TYPE 1 REQ'D.

CONCRETE SIDEWALK 4-INCH REQ'D.

CONCRETE CURB AND GUTTER 18-INCH INTEGRAL REQ'D. USH 10 EASTBOUND ℄ ALL POINTS ARE TO FACE OF CURB

SLOPE INTERCEPT

CURB RAMP TYPE 1 REQ'D.

STA. 122+07.57EB USH 10/STH 42= STA. 10+00.00SV N. 17TH ST. Y=306824.658 X=230711.960

CURB RAMP TYPE 1 REQ'D.

CONSTRUCTION LIMITS STA. 9+25SV

PI=117+94.23EB USH 10/STH 42= Y=306830.100 X=230298.659

CONSTRUCTION LIMITS STA. 9+00ET

9ET N. 18TH ST. N00°35'10"E

STA. 118+21.54EB USH 10/STH 42= STA. 10+00.00ET N. 18TH ST. Y=306829.741 X=230325.962

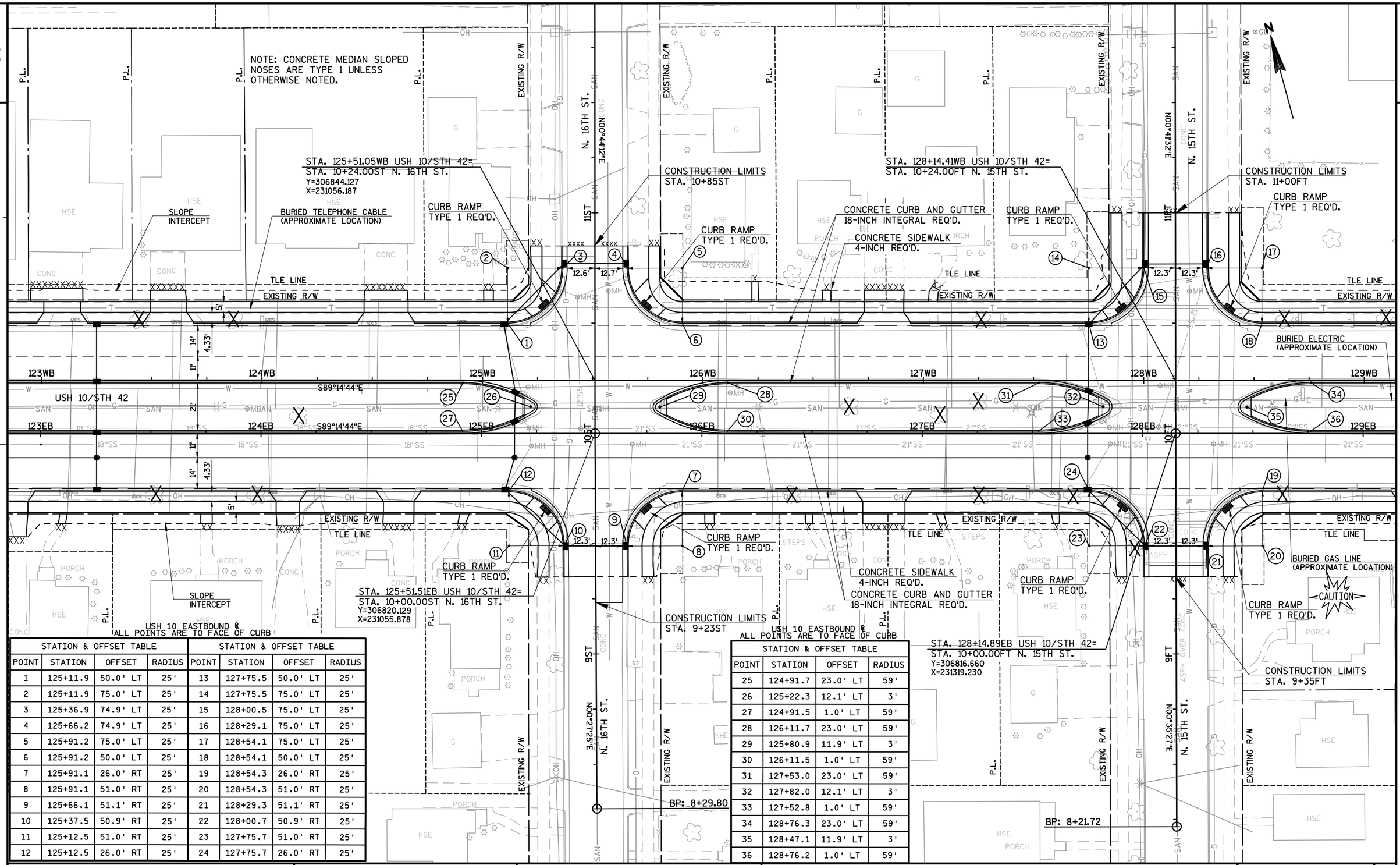
CAUTION BURIED GAS LINE (APPROXIMATE LOCATION)

CAUTION BURIED GAS LINE (APPROXIMATE LOCATION)

9SV N. 17TH ST. N00°25'59"E 3.69'

STATION & OFFSET TABLE				STATION & OFFSET TABLE				STATION & OFFSET TABLE			
POINT	STATION	OFFSET	RADIUS	POINT	STATION	OFFSET	RADIUS	POINT	STATION	OFFSET	RADIUS
3	117+76.8	50.0' LT	25'	15	121+68.3	50.0' LT	25'	28	117+64.4	19.0' LT	2'
4	117+76.8	75.0' LT	25'	16	121+68.3	75.0' LT	25'	29	117+64.4	17.0' LT	2'
5	118+03.1	75.3' LT	25'	17	121+93.3	75.0' LT	25'	30	117+47.5	23.0' LT	59'
6	118+45.1	75.0' LT	25'	18	122+21.7	75.0' LT	25'	31	118+82.3	7.0' LT	2'
7	118+70.1	75.0' LT	25'	19	122+46.7	75.0' LT	25'	32	118+82.3	5.0' LT	2'
8	118+70.1	50.0' LT	25'	20	122+46.7	50.0' LT	25'	35	118+99.1	1.0' LT	59'
9	117+48.0	26.0' RT	45'	21	121+68.2	26.0' RT	25'	36	121+66.3	4.0' LT	3'
10	117+48.0	71.0' RT	45'	22	121+68.2	51.0' RT	25'	37	121+66.3	7.0' LT	3'
11	117+92.8	67.4' RT	45'	23	121+93.2	50.9' RT	25'	38	121+66.3	1.0' LT	3'
12	118+52.5	71.1' RT	45'	24	122+22.2	51.1' RT	25'	39	122+36.9	12.0' LT	3'
13	118+97.5	71.0' RT	45'	25	122+47.2	51.0' RT	25'	40	122+67.7	23.0' LT	59'
14	118+97.5	26.0' RT	45'	26	122+47.2	26.0' RT	25'	41	122+67.6	1.0' LT	59'

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN DETAIL	SHEET 62	E



STATION & OFFSET TABLE				STATION & OFFSET TABLE			
POINT	STATION	OFFSET	RADIUS	POINT	STATION	OFFSET	RADIUS
1	125+11.9	50.0' LT	25'	13	127+75.5	50.0' LT	25'
2	125+11.9	75.0' LT	25'	14	127+75.5	75.0' LT	25'
3	125+36.9	74.9' LT	25'	15	128+00.5	75.0' LT	25'
4	125+66.2	74.9' LT	25'	16	128+29.1	75.0' LT	25'
5	125+91.2	75.0' LT	25'	17	128+54.1	75.0' LT	25'
6	125+91.2	50.0' LT	25'	18	128+54.1	50.0' LT	25'
7	125+91.1	26.0' RT	25'	19	128+54.3	26.0' RT	25'
8	125+91.1	51.0' RT	25'	20	128+54.3	51.0' RT	25'
9	125+66.1	51.1' RT	25'	21	128+29.3	51.1' RT	25'
10	125+37.5	50.9' RT	25'	22	128+00.7	50.9' RT	25'
11	125+12.5	51.0' RT	25'	23	127+75.7	51.0' RT	25'
12	125+12.5	26.0' RT	25'	24	127+75.7	26.0' RT	25'

STATION & OFFSET TABLE			
POINT	STATION	OFFSET	RADIUS
25	124+91.7	23.0' LT	59'
26	125+22.3	12.1' LT	3'
27	124+91.5	1.0' LT	59'
28	126+11.7	23.0' LT	59'
29	125+80.9	11.9' LT	3'
30	126+11.5	1.0' LT	59'
31	127+53.0	23.0' LT	59'
32	127+82.0	12.1' LT	3'
33	127+52.8	1.0' LT	59'
34	128+76.3	23.0' LT	59'
35	128+47.1	11.9' LT	3'
36	128+76.2	1.0' LT	59'

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN DETAIL	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_021210_PD.DWG PLOT DATE : 8/14/2017 1:17 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

USH 10 EASTBOUND ℄
ALL POINTS ARE TO FACE OF CURB

STATION & OFFSET TABLE			STATION & OFFSET TABLE			
STATION	OFFSET	RADIUS	POINT	STATION	OFFSET	RADIUS
130+52.3	50.0' LT	25'	12	130+56.1	26.0' RT	25'
130+52.3	75.0' LT	25'	13	133+34.8	26.0' RT	25'
130+77.3	75.2' LT	25'	14	133+34.8	51.0' RT	25'
131+14.1	74.8' LT	25'	15	133+59.8	50.9' RT	25'
131+39.1	75.0' LT	25'	16	133+88.5	51.1' RT	25'
131+39.1	50.0' LT	25'	17	134+13.5	51.0' RT	25'
131+35.7	26.0' RT	25'	18	134+13.5	26.0' RT	25'
131+35.7	51.0' RT	25'	19	134+20.5	50.0' LT	25'
131+10.7	50.8' RT	25'	20	134+20.5	75.0' LT	25'
130+81.1	51.2' RT	25'	21	134+45.0	80.3' LT	25'
130+56.1	51.0' RT	25'	22	130+32.2	23.0' LT	59'

USH 10 EASTBOUND ℄
ALL POINTS ARE TO FACE OF CURB

STATION & OFFSET TABLE			
POINT	STATION	OFFSET	RADIUS
23	130+62.8	12.1' LT	2'
24	130+32.0	1.0' LT	59'
25	131+59.2	23.0' LT	59'
26	131+28.4	11.9' LT	2'
27	131+59.1	1.0' LT	59'
28	132+44.2	1.0' LT	10'
29	133+32.2	12.0' LT	10'
30	134+15.2	23.0' LT	59'
31	134+32.1	18.4' LT	2'
32	134+10.1	12.0' LT	59'

NOTE: CONCRETE MEDIAN SLOPED
NOSES ARE TYPE 1 UNLESS OTHERWISE NOTED.

CONSTRUCTION LIMITS
STA. 12+10.55NMN

P.T. 12+10.55

STA. 130+95.67WB USH 10/STH 42=
STA. 10+24.00FO N. 14TH ST.
Y=306836.955
X=231600.752

CONSTRUCTION LIMITS
STA. 10+85FO

STA. 134+74.82WB USH 10/STH 42=
STA. 10+00NMN MENASHA AVE.
Y=306831.963
X=231979.872

CAUTION
BURIED GAS LINE (APPROXIMATE LOCATION)
BURIED TELEPHONE (APPROXIMATE LOCATION)
BURIED ELECTRIC (APPROXIMATE LOCATION)

CURB RAMP TYPE 1 REQ'D.
CURB RAMP TYPE 5 REQ'D.
CURB RAMP TYPE 7B REQ'D.
SLOPE INTERCEPT
CONCRETE CURB AND GUTTER 18-INCH INTEGRAL REQ'D.
CONCRETE SIDEWALK 4-INCH REQ'D.

STA. 130+96.32EB USH 10/STH 42=
STA. 10+00.00FO N. 14TH ST.
Y=306812.955
X=231600.635

CONSTRUCTION LIMITS
STA. 9+30FO

STA. 133+73.98EB USH 10/STH 42=
STA. 10+00.00TH N. 13TH ST.
Y=306809.298
X=231878.274

CONSTRUCTION LIMITS
STA. 9+35TH

N. 14TH ST. N00°16'47"E
N. 13TH ST. N00°34'15"E
USH 10/STH 42 S89°14'44"E
N01°15'07"E

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN DETAIL	SHEET 64 E

NOTE: CONCRETE MEDIAN SLOPED NOSES ARE TYPE 1 UNLESS OTHERWISE NOTED.

CONSTRUCTION LIMITS STA. 10+85TW

EXISTING R/W

N. 12TH ST.

N00°54'22"E

11TW

PI: 135+31.21 Y=306831.219 X=232036.255

CURB RAMP TYPE 1 REQ'D.

CURB RAMP TYPE 5 REQ'D.

STA. 136+51.35WB USH 10/STH 42= STA. 10+24.00TW N. 12TH ST. Y=306829.780 X=232156.393

SLOPE INTERCEPT

BURIED GAS LINE (APPROXIMATE LOCATION)

CAUTION

CONCRETE CURB AND GUTTER 18-INCH INTEGRAL REQ'D.

CONCRETE SIDEWALK 4-INCH REQ'D.

BURIED ELECTRIC (APPROXIMATE LOCATION)

BURIED TELEPHONE CABLE (APPROXIMATE LOCATION)

25R

13'

4.33'

135WB S89°14'44"E 136WB 137WB S89°18'48"E 138WB 139WB 140WB 141WB

135EB S89°14'44"E 136EB 137EB S89°18'48"E 138EB 139EB 140EB 141EB

21'

USH 10/STH 42

CONCRETE CORRUGATED MEDIAN 5-WIDE REQ'D.

14'

11'

5'

10TW

PI: 135+31.67 Y=306807.222 X=232035.953

STA. 136+51.74EB USH 10/STH 42= STA. 10+00.00TW N. 12TH ST. Y=306805.783 X=232156.013

STA. 8+85.25TW N. 12TH ST.= STA. 10+00.00SMN MENASHA AVE. Y=306691.041 X=232155.094

9TW

N65°35'43"W

NW50'

N00°27'32"E

N. 12TH ST.

17'

NW56'

MENASHA AVE. N59°50'36"W

8TW

CONSTRUCTION LIMITS STA. 8+15TW

CONSTRUCTION LIMITS STA. 8+85SMN

PI STA = 9+40.79
Y = 306665.940
X = 232210.417
DELTA = 25°45'07"
D = 28°39'33"
T = 45.70'
L = 89.86'
R = 199.92'
PC STA = 8+95.09
PT STA = 9+84.95

USH 10 EASTBOUND & ALL POINTS ARE TO FACE OF CURB

STATION & OFFSET TABLE				STATION & OFFSET TABLE				STATION & OFFSET TABLE			
POINT	STATION	OFFSET	RADIUS	POINT	STATION	OFFSET	RADIUS	POINT	STATION	OFFSET	RADIUS
1	135+03.5	11.4' LT	2'	11	136+91.7	26.0' RT	25'	21	136+91.8	84.3' RT	25'
2	134+95.5	71.2' LT	25'	12	136+91.7	51.0' RT	25'	22	136+66.8	84.4' RT	25'
3	135+20.2	75.0' LT	25'	13	136+67.2	51.1' RT	25'	23	138+19.3	1.0' LT	10'
4	135+20.2	50.0' LT	25'	14	136+37.2	50.9' RT	25'	24	139+47.3	17.0' LT	10'
5	136+12.0	50.0' LT	25'	15	136+12.2	51.0' RT	25'	25	139+08.0	0.0'	----
6	136+12.0	75.0' LT	25'	16	136+12.2	26.0' RT	25'	26	139+48.0	5.0' LT	----
7	136+36.5	74.9' LT	25'	17	136+67.2	179.2' RT	20'	27	139+48.0	0.0'	----
8	136+67.0	75.1' LT	25'	18	136+87.2	179.1' RT	20'	28	140+95.8	17.0' LT	59'
9	136+92.0	75.0' LT	25'	19	136+99.8	163.6' RT	20'	31	135+35.1	22.9' LT	59'
10	136+92.0	50.0' LT	25'	20	136+80.9	106.8' RT	25'	32	135+33.3	0.9' LT	59'

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN DETAIL	SHEET 65	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_021212_PD.DWG PLOT DATE : 8/14/2017 1:26 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

NOTE: CONCRETE MEDIAN SLOPED
NOSES ARE TYPE 1 UNLESS OTHERWISE NOTED.

USH 10 EASTBOUND &
ALL POINTS ARE TO FACE OF CURB

STATION & OFFSET TABLE				STATION & OFFSET TABLE				STATION & OFFSET TABLE			
POINT	STATION	OFFSET	RADIUS	POINT	STATION	OFFSET	RADIUS	POINT	STATION	OFFSET	RADIUS
1	141+04.7	51.0' LT	30'	14	144+78.8	50.0' RT	25'	27	143+93.5	24.0' LT	----
2	141+04.7	81.0' LT	30'	15	145+03.8	50.1' RT	25'	28	143+93.5	19.0' LT	----
3	141+34.7	80.9' LT	30'	16	145+38.0	49.9' RT	25'	29	144+41.0	24.0' LT	----
4	141+77.0	81.1' LT	30'	17	145+63.0	50.0' RT	25'	30	144+88.1	5.0' LT	3'
5	142+07.0	81.0' LT	30'	18	145+63.0	25.0' RT	25'	31	145+61.4	19.0' LT	----
6	142+06.8	51.0' LT	30'	19	141+10.8	22.0' LT	3'	32	145+65.8	4.0' LT	2'
7	141+83.8	25.0' RT	10'	20	141+11.3	20.1' LT	3'&59'	33	145+65.3	5.9' LT	2'&59'
8	141+83.8	35.0' RT	10'	21	140+95.8	18.0' LT	59'	34	145+80.8	8.0' LT	59'
9	141+73.8	34.9' RT	10'	22	141+22.6	0.0' LT	----	35	146+40.7	2.0' LT	10'
10	141+35.7	50.3' RT	25'	23	141+88.7	24.0' LT	----	36	146+40.4	8.0' LT	10'
11	141+10.7	50.0' RT	25'	24	142+14.0	6.0' LT	2'	37	146+40.9	24.0' LT	----
12	141+10.7	25.0' RT	25'	25	142+13.5	4.0' LT	2'&74'	38	146+79.6	24.0' LT	----
13	144+78.8	25.0' RT	25'	26	142+30.8	2.0' LT	74'	39	146+40.9	19.0' LT	----

N

CONSTRUCTION LIMITS
STA. 11+00EL

STA. 141+55.09WB USH 10/STH 42=
STA. 10+24.00EL N. 11TH ST.
Y=306823.744
X=232660.092

CURB RAMP
TYPE 1 REQ'D.

CONCRETE CURB AND GUTTER
18-INCH INTEGRAL REQ'D.

CURB RAMP
TYPE 1 REQ'D.

SLOPE
INTERCEPT

CONCRETE SIDEWALK
4-INCH REQ'D.

CURB RAMP
TYPE 7B REQ'D.

TILE LINE

EXISTING R/W

BURIED TELEPHONE CABLE
(APPROXIMATE LOCATION)

BURIED ELECTRIC
(APPROXIMATE LOCATION)

CONCRETE CORRUGATED
MEDIAN 5-WIDE REQ'D.

CONCRETE CORRUGATED
MEDIAN 5-WIDE REQ'D.

CONCRETE SIDEWALK
4-INCH REQ'D.

CONCRETE SIDEWALK
4-INCH REQ'D.

CURB RAMP
TYPE 1 REQ'D.

REMOVE BEAM
GUARD

CURB RAMP
TYPE 1 REQ'D.

BURIED ELECTRIC
(APPROXIMATE LOCATION)

STA. 141+55.46EB USH 10/STH 42=
STA. 10+00.00EL N. 11TH ST.
Y=306799.747
X=232659.692

CONSTRUCTION LIMITS
STA. 9+35EL

CONCRETE SIDEWALK
4-INCH REQ'D.

CONCRETE CURB AND GUTTER
18-INCH INTEGRAL REQ'D.

CURB RAMP
TYPE 1 REQ'D.

SLOPE
INTERCEPT

CURB RAMP
TYPE 1 WITH
PEDESTRIAN
CURB REQ'D.

STA. 1145+20.99EB USH 10/STH 42=
STA. 10+00.00TN N. 10TH ST.
Y=306795.366
X=233025.201

CONSTRUCTION LIMITS
STA. 9+35TN

BP: 8+20.63

USH 10 EASTBOUND &

STATION & OFFSET TABLE			
POINT	STATION	OFFSET	RADIUS
40	141+22.6	5.0' LT	----
41	141+88.7	24.0' LT	----
42	145+61.4	24.0' LT	----

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN DETAIL	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_021213_PD.DWG PLOT DATE : 8/14/2017 1:31 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

NOTE: CONCRETE MEDIAN SLOPED NOSES ARE TYPE 1 UNLESS OTHERWISE NOTED.

PI: 11+38.34
Y=306929.935
X=233340.703

STA. 148+33.76WB USH 10/STH 42=
STA. 10+24.00NN N. 9TH ST.
Y=306815.611
X=233338.710

STA. 148+34.11EB USH 10/STH 42=
STA. 10+00.00NN N. 9TH ST.
Y=306791.614
X=233338.292

STA. 151+51.56WB USH 10/STH 42=
STA. 10+24.22EG N. 8TH ST.
Y=306811.808
X=233656.009

STA. 151+43.38EB USH 10/STH 42=
STA. 10+00.00EG N. 8TH ST.
Y=306787.908
X=233647.546

BP: 8+22.48

BP: 8+38.47

END PROJECT 1500-37-71
STA. 152+25.00EB
Y=306786.930
X=233729.157

MATCH EXISTING COLORED AND STAMPED CONCRETE WALKWAY AT BACK OF NEW SIDEWALK. ADJUST SIDEWALK ELEVATION TO MATCH.

CAUTION

BURIED GAS LINE (APPROXIMATE LOCATION)

BURIED ELECTRIC (APPROXIMATE LOCATION)

BURIED TELEPHONE CABLE (APPROXIMATE LOCATION)

CURB RAMP TYPE 1 REQ'D.

CURB RAMP TYPE 2 REQ'D.

CURB RAMP TYPE 2 WITH PEDESTRIAN CURB REQ'D.

CONCRETE CURB AND GUTTER 18-INCH INTEGRAL REQ'D.

CONCRETE SIDEWALK 4-INCH REQ'D.

RECONSTRUCT STEPS

SLOPE INTERCEPT

CONSTRUCTION LIMITS STA. 9+00NN

CONSTRUCTION LIMITS STA. 8+50EG

USH 10 EASTBOUND & ALL POINTS ARE TO FACE OF CURB

STATION & OFFSET TABLE			
POINT	STATION	OFFSET	RADIUS
1	147+94.5	50.1' LT	25'
2	147+94.5	75.1' LT	25'
3	148+19.5	75.0' LT	25'
4	148+49.5	75.2' LT	25'
5	148+74.5	75.1' LT	25'
6	148+74.5	50.1' LT	25'
7	148+74.2	25.9' RT	25'
8	148+74.2	50.9' RT	25'
9	148+49.2	50.9' RT	25'
10	148+18.9	50.9' RT	25'
11	147+93.9	50.9' RT	25'
12	147+93.9	25.9' RT	25'

USH 10 EASTBOUND & ALL POINTS ARE TO FACE OF CURB

STATION & OFFSET TABLE			
POINT	STATION	OFFSET	RADIUS
13	150+83.7	50.1' LT	45'
14	150+83.7	95.1' LT	45'
15	151+28.7	95.3' LT	45'
16	151+71.3	84.9' LT	35'
17	152+06.3	85.1' LT	35'
18	152+06.3	50.1' LT	35'
19	152+02.4	25.9' RT	35'
20	152+02.4	60.9' RT	35'
21	151+67.4	60.9' RT	35'
22	151+29.4	35.9' RT	10'
23	151+19.4	35.9' RT	10'
24	151+19.4	25.9' RT	10'

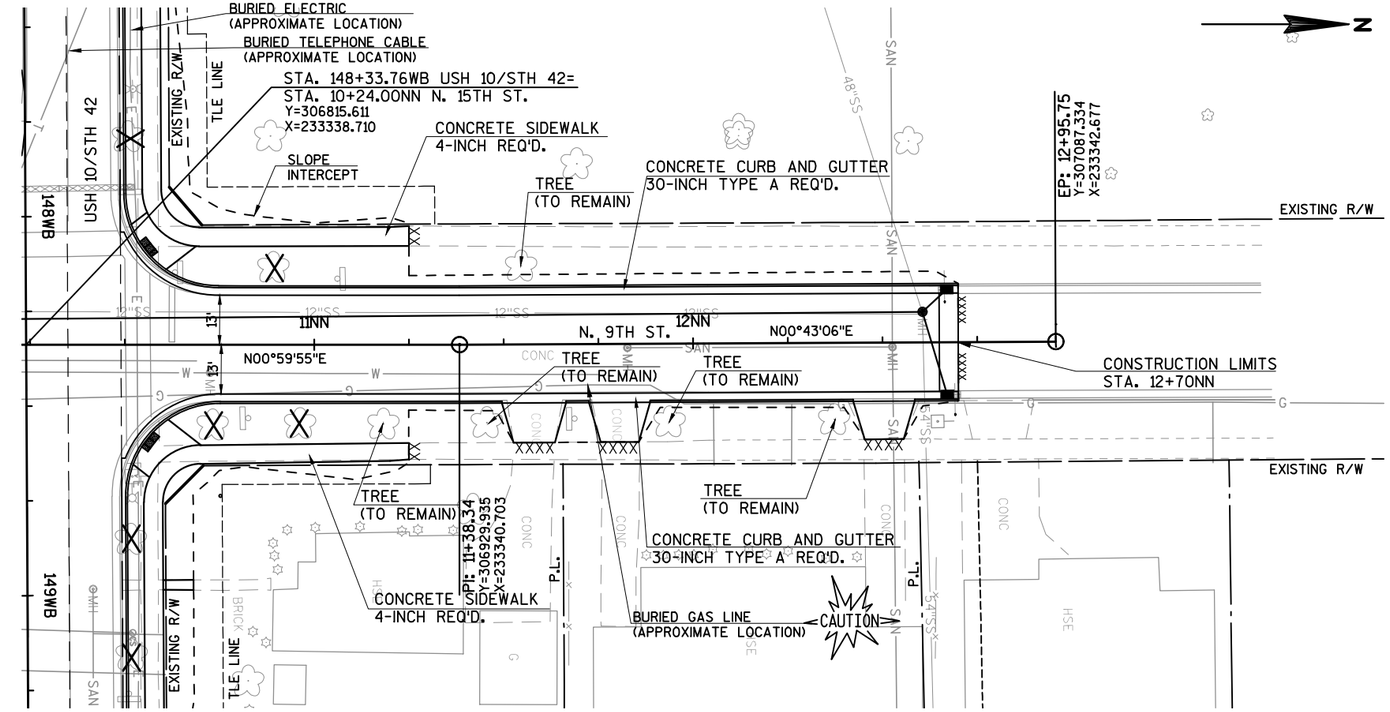
STATION & OFFSET TABLE			
POINT	STATION	OFFSET	RADIUS
25	147+28.7	12.1' LT	10'
26	147+68.4	23.1' LT	10'
27	147+74.5	12.1' LT	59'
28	147+94.6	15.6' LT	2'&59'
29	147+93.9	17.5' LT	2'
30	147+94.6	19.4' LT	2'&59'
31	148+73.6	9.5' LT	2'&59'
32	148+74.6	6.7' LT	2'
33	148+73.9	4.8' LT	2'&59'
34	148+94.4	1.1' LT	59'
35	149+04.0	12.1' LT	10'
36	149+03.4	1.1' LT	10'

USH 10 EASTBOUND & ALL POINTS ARE TO FACE OF CURB

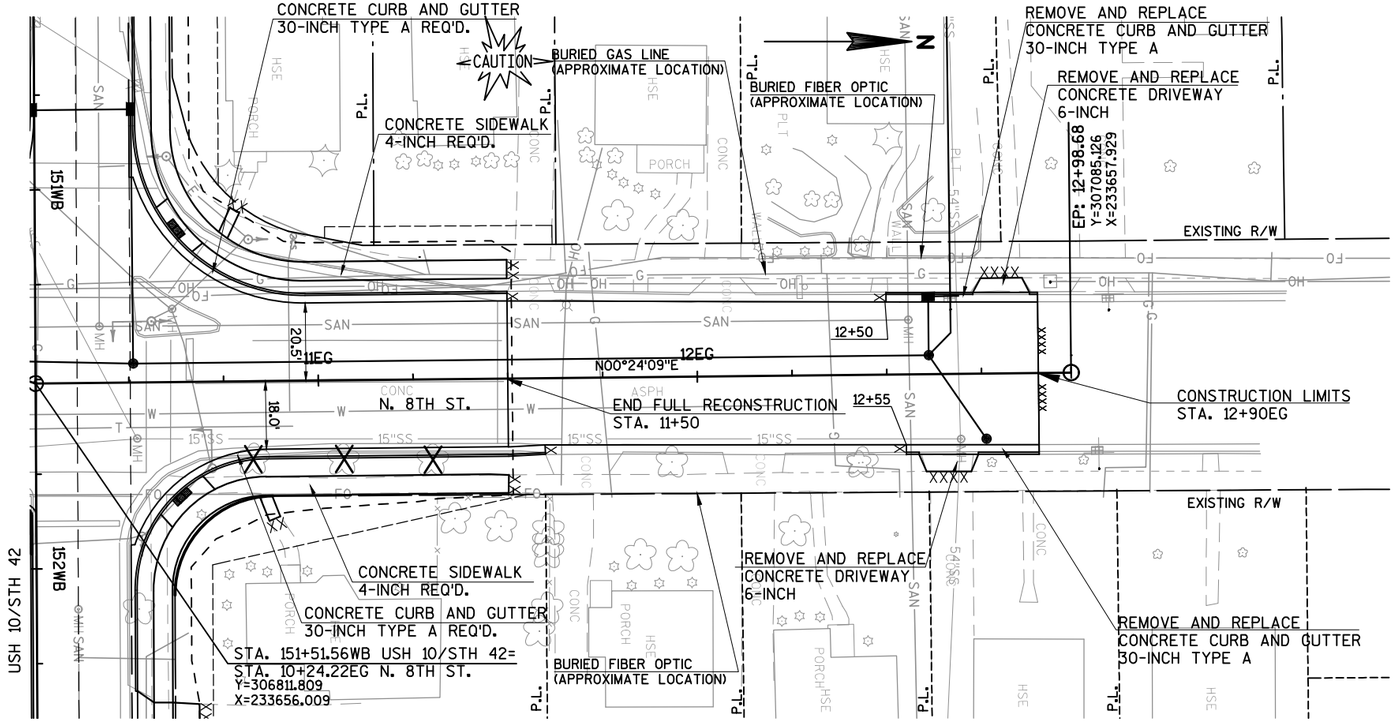
STATION & OFFSET TABLE			
POINT	STATION	OFFSET	RADIUS
37	149+22.6	12.1' LT	10'
38	149+91.3	12.1' LT	10'
39	150+10.6	23.1' LT	10'
40	150+79.9	23.1' LT	59'
41	151+04.3	15.6' LT	2'
42	150+91.3	12.1' LT	59'
43	151+05.2	17.4' LT	2'&59'
44	151+04.8	13.6' LT	2'&59'
45	151+86.4	23.1' LT	2'
46	151+86.4	21.1' LT	2'
47	151+85.0	19.7' LT	2'&59'
48	152+28.0	1.1' LT	59'

PROJECT NO:1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN DETAIL	SHEET 67	E

NOTE:
SEE PLAN DETAIL
SHEET STA. 147+00-STA.
153+00 FOR 9TH STREET
INTERSECTION LAYOUT STA.
9+00-STA. 11+25.



NOTE:
SEE PLAN DETAIL
SHEET STA. 147+00-STA.
153+00 FOR 8TH STREET
INTERSECTION LAYOUT STA.
8+50-STA. 11+50.



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN DETAIL-9TH STREET AND 8TH STREET	SHEET 68	E

STH 42 EASTBOUND &
ALL POINTS ARE TO FACE OF CURB

STATION & OFFSET TABLE				STATION & OFFSET TABLE				STATION & OFFSET TABLE			
POINT	STATION	OFFSET	RADIUS	POINT	STATION	OFFSET	RADIUS	POINT	STATION	OFFSET	RADIUS
1	155+25.4	50.0' LT	25'	13	156+58.1	26.0' RT	25'	25	152+28.0	1.0' LT	59'
2	155+25.4	75.0' LT	25'	14	156+58.1	51.0' RT	25'	26	155+02.9	1.0' LT	59'
3	155+50.4	75.0' LT	25'	15	156+33.1	50.8' RT	25'	27	155+02.7	23.0' LT	59'
4	155+75.6	55.0' LT	5'	16	156+08.3	31.0' RT	5'	28	155+34.6	13.6' LT	2'&59'
5	155+80.6	55.0' LT	5'	17	156+03.3	31.0' RT	5'	29	155+34.6	10.3' LT	2'&59'
6	155+80.6	50.0' LT	5'	18	156+03.3	26.0' RT	5'	30	155+33.6	11.9' LT	2'
7	156+03.5	50.0' LT	5'	19	155+80.3	26.0' RT	5'	31	156+80.7	23.0' LT	59'
8	156+03.5	55.0' LT	5'	20	155+80.3	31.0' RT	5'	32	156+80.6	1.0' LT	59'
9	156+08.5	55.0' LT	5'	21	155+75.3	31.0' RT	5'	33	156+49.0	13.8' LT	2'&59'
10	156+33.5	75.0' LT	25'	22	155+50.1	51.2' RT	25'	34	156+49.0	10.4' LT	2'&59'
11	156+58.5	75.0' LT	25'	23	155+25.1	51.0' RT	25'	35	156+50.1	12.1' LT	2'
12	156+58.5	50.0' LT	25'	24	155+25.1	26.0' RT	25'				

NOTE: CONCRETE MEDIAN SLOPED NOSES ARE TYPE 1 UNLESS OTHERWISE NOTED.

CONSTRUCTION LIMITS
STA. 10+85SL

STA. 155+62.51WB STH 42=
STA. 10+24.00SL LINCOLN BLVD.
Y=306806.878
X=234067.405

CURB RAMP
TYPE 1 REQ'D.

SLOPE
INTERCEPT

CONCRETE CURB AND GUTTER
18-INCH INTEGRAL REQ'D.

CONCRETE SIDEWALK
4-INCH REQ'D.

CONSTRUCTION LIMITS
STA. 10+85NL

STA. 156+20.55WB STH 42=
STA. 10+24.00NL LINCOLN BLVD.
Y=306806.183
X=234125.406

CURB RAMP
TYPE 1 REQ'D.

CONCRETE
SIDEWALK
4-INCH REQ'D.

STH 42

BURIED ELECTRIC
(APPROXIMATE LOCATION)

S89°18'48"E

CONCRETE CURB
TYPE A REQ'D.

SLOPE
INTERCEPT
STA. 155+63.03EB STH 42=
STA. 10+00.00SL LINCOLN BLVD.
Y=306782.874
X=234067.164

CURB RAMP
TYPE 1 REQ'D.

CONSTRUCTION LIMITS
STA. 9+10SL

CURB RAMP
TYPE 1 REQ'D.

STA. 156+21.05EB STH 42=
STA. 10+00.00NL LINCOLN BLVD.
Y=306782.184
X=234125.177

CONSTRUCTION LIMITS
STA. 9+10NL

BEGIN PROJECT 4570-12-71
STA. 152+25.00EB
Y=306786.930
X=233729.157

BP: 8+38.47

BP: 8+27.47

BP: 8+29.28

N01°09'50"E

N01°10'52"E

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAIL	SHEET 69	E

STH 42 EASTBOUND &
ALL POINTS ARE TO FACE OF CURB

STATION & OFFSET TABLE				STATION & OFFSET TABLE			
POINT	STATION	OFFSET	RADIUS	POINT	STATION	OFFSET	RADIUS
1	159+46.2	50.0' LT	25'	13	159+25.5	23.0' LT	59'
2	159+46.2	75.0' LT	25'	14	159+25.8	1.0' LT	59'
3	159+71.2	75.0' LT	25'	15	159+57.5	13.6' LT	2'&59'
4	160+01.2	75.0' LT	25'	16	159+57.4	10.2' LT	2'&59'
5	160+26.2	75.0' LT	25'	17	160+45.9	23.0' LT	59'
6	160+26.2	50.0' LT	25'	18	159+56.4	11.9' LT	2'
7	160+25.9	26.0' RT	25'	19	160+46.2	1.0' LT	59'
8	160+25.9	51.0' RT	25'	20	160+14.2	13.8' LT	2'&59'
9	160+00.9	50.9' RT	25'	21	160+14.2	10.4' LT	2'&59'
10	159+70.9	51.1' RT	25'	22	160+15.3	12.1' LT	2'
11	159+45.9	51.0' RT	25'	23	162+92.3	23.0' LT	59'
12	159+45.9	26.0' RT	25'	24	162+92.3	1.0' LT	59'

EP: 11+95.75

NOTE: CONCRETE MEDIAN SLOPED
NOSES ARE TYPE 1 UNLESS OTHERWISE NOTED.

CONSTRUCTION LIMITS
STA. 11+00SX

STA. 159+85.63WB STH 42=
STA. 10+24.00SX N. 6TH ST.
Y=306801.816
X=234490.503

CURB RAMP
TYPE 1 WITH
PEDESTRIAN
CURB REQ'D.

NEW STEPS
BY OTHERS
REMOVE
EXISTING

CURB RAMP
TYPE 1 WITH
PEDESTRIAN
CURB REQ'D.

SLOPE
INTERCEPT

CONCRETE SIDEWALK
4-INCH REQ'D.

CONCRETE CURB AND GUTTER
18-INCH INTEGRAL REQ'D.

MATCH EXISTING RETAINING
WALL (DO NOT DISTURB)

PI = 159+53.25WB STH 42
Y=306802.195
X=234458.125

TLE LINE

EXISTING R/W

N. 6TH ST.
N00°46'25"E

BURIED ELECTRIC
(APPROXIMATE LOCATION)

STH 42
157WB 158WB 159WB 160WB 161WB 162WB 163WB
157EB 158EB 159EB 160EB 161EB 162EB 163EB

S89°18'48"E
S89°19'48"E

ABANDONED
BOX CULVERT

PI=159+53.74EB STH 42
Y=306778.197
X=234457.841

RELOCATE
DRIVEWAY

CURB RAMP
TYPE 1 REQ'D.

CURB RAMP
TYPE 1 REQ'D.

STA. 159+86.08EB STH 42=
STA. 10+00.00SX N. 6TH ST.
Y=306777.819
X=234490.179

CONSTRUCTION LIMITS
STA. 9+25SX

N. 6TH ST.
N00°54'02"E

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAIL	SHEET 70	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_021202_PD.DWG PLOT DATE : 7/19/2018 7:24 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

2

EP: 11+75.15

EXISTING R/W

N. 5TH ST.

N00°59'25"E

EXISTING R/W

NOTE: CONCRETE MEDIAN SLOPED NOSES ARE TYPE 1 UNLESS OTHERWISE NOTED.

P.L.

P.L.

P.L.

P.L.

N

CONSTRUCTION LIMITS
STA. 10+60FF

STA. 163+52.16WB STH 42=
STA. 10+00.00FF N. 5TH ST.
Y=306797.530
X=234857.009

CURB RAMP
TYPE 1 REQ'D.

CURB RAMP
TYPE 1 WITH
PEDESTRIAN
CURB REQ'D.

SLOPE
INTERCEPT
EXISTING R/W

CONCRETE CURB AND GUTTER
18-INCH INTEGRAL REQ'D.

CONCRETE SIDEWALK
4-INCH REQ'D.

16'

16'

5'

14'

4.33'

11'

21'

11'

14'

4.33'

5'

163WB 164WB 165WB 166WB 167WB 168WB 169WB

163EB 164EB 165EB 166EB 167EB 168EB 169EB

STH 42

S89°19'48"E

BURIED ELECTRIC
(APPROXIMATE LOCATION)

CURB RAMP
TYPE 7B REQ'D.

CURB TYPE A
REQUIRED

CURB
(TO REMAIN)

CURB
WALL

INLET (TO REMAIN)

CURB (TO REMAIN)

SLOPE
INTERCEPT

EXISTING R/W

CONCRETE SIDEWALK
4-INCH REQ'D.
CONCRETE CURB AND GUTTER
18-INCH INTEGRAL REQ'D.

BURIED GAS LINE
(APPROXIMATE LOCATION)

CAUTION

STH 42 EAS[illegible]OUND R[illegible]
ALL POINTS ARE T[illegible] FACE OF CURB

STATION & OFFSET TABLE				STATION & OFFSET TABLE			
POINT	STATION	OFFSET	RADIUS	POINT	STATION	OFFSET	RADIUS
1	163+09.9	50.0' LT	25'	8	163+24.4	10.1' LT	2'&59'
2	163+09.9	75.0' LT	25'	9	163+23.4	11.8' LT	2'
3	163+34.9	74.9' LT	25'	10	164+16.0	23.0' LT	59'
4	163+70.9	75.1' LT	25'	11	164+15.6	1.0' LT	59'
5	163+95.9	75.0' LT	25'	12	163+84.4	13.9' LT	2'
6	163+95.9	50.0' LT	25'	13	163+84.4	10.5' LT	2'&59'
7	163+24.5	13.5' LT	2'&59'	14	163+85.5	12.2' LT	2'&59'

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAIL	SHEET 71	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_021203_PD.DWG PLOT DATE : 7/20/2018 5:42 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

2

N

EXISTING R/W

SLOPE INTERCEPT

CURB RAMP TYPE 7B REQ'D.

CONCRETE CURB AND GUTTER 18-INCH INTEGRAL REQ'D.

CONCRETE SIDEWALK 4-INCH REQ'D.

EXISTING R/W

5'

14'

4.67'

11'

BURIED ELECTRIC (APPROXIMATE LOCATION)

CURB RAMP TYPE 5 REQ'D.

169WB 170WB 171WB 172WB 173WB 174WB 175WB

STH 42

169EB 170EB 171EB 172EB 173EB 174EB 175EB

CURB RAMP TYPE 5 REQ'D.

11'

14'

4.67'

5'

EXISTING R/W TLE LINE

BURIED GAS LINE (APPROXIMATE LOCATION)

CAUTION

BURIED ELECTRIC (APPROXIMATE LOCATION)

CURB RAMP TYPE 7B REQ'D.

SLOPE INTERCEPT

CONCRETE SIDEWALK 4-INCH REQ'D.

CONCRETE CURB AND GUTTER 18-INCH INTEGRAL REQ'D.

R/W LINE

R/W LINE

FENCE CHAIN LINK POLYMER COATED 6-FT REQUIRED

PLE LINE

EXISTING R/W

P.L.

P.L.

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAIL	SHEET 72	E

2

2

N

P.L.

P.L.

P.L.

P.L.

PLACE JOINT IN CONCRETE
PAVEMENT AT EDGE OF
BRIDGE DECK

STA. 179+00-STA. 179+50
SEE CROSS SECTIONS FOR
SPECIAL MEDIAN GRADING

CONCRETE CURB AND GUTTER
18-INCH INTEGRAL REQ'D.

SLOPE
INTERCEPT

CONCRETE SIDEWALK
4-INCH REQ'D.

EXISTING R/W

TLE LINE

EXISTING R/W

5'

14'

4.33'

11'

175WB 176WB 177WB 178WB 179WB 180WB 181WB

STH 42

BURIED ELECTRIC
(APPROXIMATE LOCATION)

175EB 176EB 177EB 178EB 179EB 180EB 181EB

11'

14'

4.33'

5'

EXISTING R/W

SLOPE
INTERCEPT

CONCRETE SIDEWALK
4-INCH REQ'D.

CONCRETE CURB AND GUTTER
18-INCH INTEGRAL REQ'D.

DO NOT DISTURB
MONUMENT

WISDOT MON.

EXISTING R/W

TLE LINE

PLE LINE

CAUTION

BURIED GAS LINE
(APPROXIMATE LOCATION)

PLACE JOINT IN CONCRETE
PAVEMENT AT EDGE OF
BRIDGE DECK

REHABILITATE STRUCTURE
B-36-900
(SEE STRUCTURE PLANS)

P.L.

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAIL	SHEET 73	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_021205_PD.DWG PLOT DATE : 7/27/2018 2:52 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

STH 42 EASTBOUND ℄
ALL POINTS ARE TO FACE OF CURB

STATION & OFFSET TABLE			
POINT	STATION	OFFSET	RADIUS
7	184+67.9	26.0' RT	25'
8	184+68.0	51.0' RT	25'
9	184+43.0	51.2' RT	25'
10	184+03.5	50.8' RT	25'
11	183+78.5	51.0' RT	25'

STATION & OFFSET TABLE			
POINT	STATION	OFFSET	RADIUS
12	183+78.5	26.0' RT	25'
13	183+63.3	23.0' LT	59'
14	183+71.8	1.0' LT	59'
15	183+99.1	10.9' LT	2'&59'
16	183+98.8	7.5' LT	2'&59'
17	183+97.9	9.3' LT	2'
18	184+83.3	23.0' LT	59'
19	184+91.8	1.0' LT	59'
20	184+56.3	16.5' LT	2'&59'
21	184+56.0	13.1' LT	2'&59'
22	184+57.2	14.7' LT	2'
23	186+75.2	42.7' RT	200'

NOTE: CONCRETE MEDIAN SLOPED
NOSES ARE TYPE 1 UNLESS OTHERWISE NOTED.

N

PI: 182+85.27WB
Y=306774.921
X=236789.985

PC: 186+38.30WB

CONCRETE CURB AND GUTTER
18-INCH TYPE A REQ'D.

SLOPE
INTERCEPT

TLE LINE

R/W LINE

CONCRETE CURB AND GUTTER
18-INCH INTEGRAL REQ'D.

CONCRETE SIDEWALK
4-INCH REQ'D.

TLE LINE
EXISTING R/W

5'
14'
4.33'
11'
21'
11'
14'
4.33'
5'

181WB S89°19'48"E 182WB 183WB 184WB 185WB S89°19'45"E 186WB 187WB

181EB S89°19'48"E 182EB 183EB 184EB 185EB S89°19'47"E 186EB 187EB

STH 42

BURIED ELECTRIC
(APPROXIMATE LOCATION)

EXISTING R/W
TLE LINE

CONCRETE SIDEWALK
4-INCH REQ'D.

CONCRETE CURB AND GUTTER
18-INCH INTEGRAL REQ'D.

PI: 182+85.76EB
Y=306750.923
X=236789.704

CURB RAMP
TYPE 4B1 REQ'D.
WITH RADIAL
DETECTABLE WARNING
FIELD

SLOPE
INTERCEPT

35.5'

ASPHALTIC SURFACE
REQ'D.

CURB RAMP
TYPE 4B1 REQ'D.
WITH RADIAL
DETECTABLE WARNING
FIELD

EXISTING R/W
TLE LINE

CONCRETE CURB AND GUTTER
18-INCH TYPE A REQ'D.

PC: 185+87.41EB

BURIED GAS LINE
(APPROXIMATE LOCATION)

CAUTION

P.L.

P.L.

P.L.

BLDG

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAIL	SHEET 74	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_021206_PD.DWG PLOT DATE : 7/20/2018 6:09 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

ALL CURB POINTS ARE TO FACE OF CURB

STATION & OFFSET TABLE			
POINT	Y	X	RADIUS
1	306814.9	237246.6	100'
2	306822.7	237271.5	100'
3	306824.6	237275.8	100'
4	306828.5	237287.8	100'
5	306710.5	237184.6	200'
6	306716.0	237233.8	200'
7	306903.9	237610.8	29' & 282.5'
8	306907.5	237622.4	29'
9	306893.2	237589.5	282.5'
10	306837.4	237357.7	----
11	306811.8	237369.3	----

STATION & OFFSET TABLE			
POINT	Y	X	RADIUS
12	306801.0	237374.2	----
13	306788.9	237371.6	----
14	306755.1	237364.5	----
15	306870.5	237559.7	----
16	306835.8	237562.3	----
17	306827.8	237562.9	15'
18	306828.9	237577.9	15'
19	306818.1	237567.5	15'
20	306800.9	237585.4	15'
21	306790.1	237575.0	15'
22	306796.9	237588.4	15'

STATION & OFFSET TABLE			
POINT	Y	X	RADIUS
23	306789.7	237592.0	----
25	306816.1	237388.3	4'
26	306785.5	237389.5	2'
27	306840.3	237454.0	9'&45'
28	306840.9	237457.4	9'&99'
29	306831.9	237457.3	9'
30	306839.1	237489.1	9'&45'
31	306838.3	237491.3	9'&99'
32	306830.3	237487.1	15'
33	306758.1	237490.6	9'&45'

N

MATCH LINE

CONCRETE CURB AND GUTTER
18-INCH TYPE A REQ'D.

CONCRETE CURB AND GUTTER
30-INCH TYPE A REQ'D.

SLOPE
INTERCEPT

CONCRETE CURB AND GUTTER
4-INCH SLOPED
36-INCH TYPE R REQ'D.

R/W LINE

CONSTRUCTION SIDEWALK
5-INCH REQ'D.

CONSTRUCTION SIDEWALK
4-INCH REQ'D.

SEE CONSTRUCTION DETAIL
FOR MEDIAN LAYOUT.

CURB RAMP
TYPE 7 REQ'D.

CONCRETE CURB AND GUTTER
18-INCH TYPE A REQ'D.

CONCRETE SIDEWALK
4-INCH REQ'D.

CURB RAMP
TYPE 7 REQ'D.

CONCRETE CURB AND GUTTER
18-INCH TYPE A REQ'D.

CONCRETE CURB AND GUTTER
30-INCH TYPE A REQ'D.

BURIED FIBER OPTIC
(APPROXIMATE LOCATION)

CONCRETE CURB AND GUTTER
18-INCH TYPE A REQ'D.

SEE CONSTRUCTION DETAIL
FOR MEDIAN LAYOUT.

MATCH LINE

CONCRETE TRUCK APRON
12-INCH COLORED WISDOT RED

CURB RAMP
TYPE 7 REQ'D.

BURIED ELECTRIC
(APPROXIMATE LOCATION)

CONCRETE CURB AND GUTTER
30-INCH TYPE A REQ'D.

EXISTING R/W
TLE LINE

BURIED FIBER OPTIC
(APPROXIMATE LOCATION)

CONCRETE SIDEWALK
4-INCH REQ'D.

CONCRETE CURB AND GUTTER
18-INCH TYPE A REQ'D.

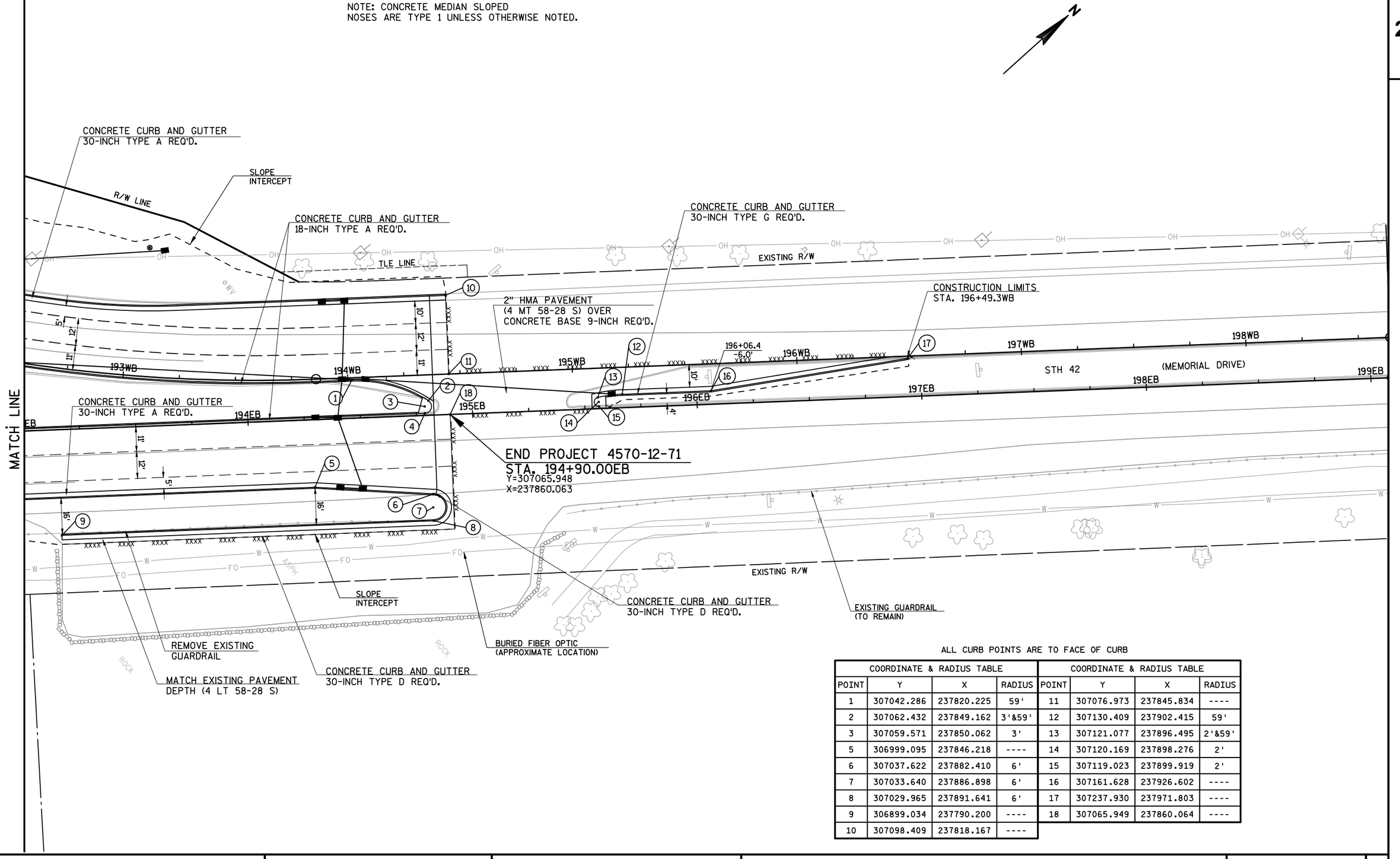
STH 42

ALL CURB POINTS ARE TO FACE OF CURB

STATION & OFFSET TABLE			
POINT	Y	X	RADIUS
34	306757.3	237488.7	9'&99'
35	306766.2	237486.5	9'
36	306757.8	237451.7	9'&99'
37	306758.7	237449.2	9'&45'
38	306766.7	237453.5	9'
39	306798.4	237470.5	45'
40	306834.1	237544.3	2'
41	306775.9	237551.4	4'
42	306749.1	237288.0	----
43	306738.9	237308.2	----
44	306810.8	237276.3	----
45	306822.8	237285.7	----
46	306906.7	237636.4	----

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN DETAIL	SHEET 75	E

NOTE: CONCRETE MEDIAN SLOPED
NOSES ARE TYPE 1 UNLESS OTHERWISE NOTED.



ALL CURB POINTS ARE TO FACE OF CURB

COORDINATE & RADIUS TABLE				COORDINATE & RADIUS TABLE			
POINT	Y	X	RADIUS	POINT	Y	X	RADIUS
1	307042.286	237820.225	59'	11	307076.973	237845.834	----
2	307062.432	237849.162	3'&59'	12	307130.409	237902.415	59'
3	307059.571	237850.062	3'	13	307121.077	237896.495	2'&59'
5	306999.095	237846.218	----	14	307120.169	237898.276	2'
6	307037.622	237882.410	6'	15	307119.023	237899.919	2'
7	307033.640	237886.898	6'	16	307161.628	237926.602	----
8	307029.965	237891.641	6'	17	307237.930	237971.803	----
9	306899.034	237790.200	----	18	307065.949	237860.064	----
10	307098.409	237818.167	----				

ALL CURB POINTS ARE TO FACE OF CURB

STATION & OFFSET TABLE				STATION & OFFSET TABLE			
POINT	Y	X	RADIUS	POINT	Y	X	RADIUS
1	306705.699	237454.918	4'	12	306691.541	237552.542	----
2	306710.489	237497.576	2'	13	306691.546	237575.674	----
3	306734.549	237550.941	2'	14	306691.548	237584.793	35'
4	613236.882	474976.205	2.5'	15	306742.387	237615.996	35'
5	306578.102	237398.467	50'	16	306763.625	237605.218	----
6	306603.423	237410.153	50'	17	306748.014	237613.187	----
7	306680.999	237433.212	----	18	306760.632	237634.595	52'
8	306686.283	237454.714	----	19	306780.092	237653.601	52'
9	306691.524	237476.038	----	20	306793.441	237661.049	----
10	306691.529	237497.798	----	21	306712.690	237616.925	35'
11	306691.530	237517.852	----	22	306681.282	237651.207	----

N

MATCH LINE

EXISTING R/W

P.L.

REMOVE EXISTING CONCRETE SIDEWALK

CONCRETE SIDEWALK 5-INCH

SLOPE INTERCEPTS

CONCRETE SIDEWALK 4-INCH

CURB RAMP TYPE 7 REQ'D.

REMOVE SIDEWALK RAMP AND CONCRETE SIDEWALK

BURIED FIBER OPTIC (APPROXIMATE LOCATION)

BURIED TELEPHONE (APPROXIMATE LOCATION)

CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.

SEE CONSTRUCTION DETAIL FOR MEDIAN LAYOUT.

TLE LINE

CONCRETE MEDIAN SLOPED NOSE TYPE 1 REQ'D.

MARITIME DRIVE

REMOVE SIDEWALK RAMP, CONCRETE SIDEWALK AND ASPHALTIC SIDEWALK

SLOPE INTERCEPTS

3" HMA ASPHALTIC SURFACE

CONSTRUCTION LIMITS STA. 9+25

CONCRETE CURB AND GUTTER 30-INCH TYPE A REQ'D.

3" HMA ASPHALTIC SURFACE

CURB RAMP TYPE 7 REQ'D.

CONCRETE SIDEWALK 4-INCH

3" HMA ASPHALTIC SURFACE

BURIED FIBER OPTIC (APPROXIMATE LOCATION)

CONCRETE SIDEWALK 4-INCH

ALL CURB POINTS ARE TO FACE OF CURB

STATION & OFFSET TABLE			
POINT	Y	X	RADIUS
23	613218.605	475001.603	----
24	613244.558	475078.535	----
25	306598.938	237503.448	2.5'
26	306690.269	237619.192	10'
27	306717.437	237633.948	10'
28	306746.826	237624.957	5'
29	306759.336	237618.609	5'
30	306726.548	237584.785	35'
31	306677.286	237640.765	5'
32	306692.033	237654.275	5'
34	306654.799	237657.435	2.5'&58'
35	306666.143	237671.017	58'

2

N

CONSTRUCTION LIMITS
STA. 10+85FW

FLEETWOOD DR.
3.42°E
11FW
10FW
9FW

USH 10/STH 42

69WB 70WB 71WB 72WB 73WB 74WB 75WB

69EB 70EB 71EB 72EB 73EB 74EB 75EB

S87°25'29"E

VARIES

641.23 641.29 641.54 641.26 641.48 641.22 641.30 641.04 641.14 641.32 641.08 641.00 640.85 640.80 640.97 640.88 640.95 640.92 640.77 640.78 641.00 641.07 640.73 640.81 640.86 640.68 640.83 640.89 640.75 640.95 641.01 640.82 640.93 641.03 641.15 640.87 641.16 641.08 641.11 641.23 641.22 641.04 641.15 641.37 641.09 641.46 641.44 641.74 641.52 641.35 641.68 641.40 641.85 641.91 641.75 641.86 642.08 641.80 642.34 642.13 642.62 642.40 642.25 642.36 642.58 642.30 642.73 642.35 641.87 641.68 642.92 643.20 642.98 642.84 642.95 643.17 642.89 643.13 643.09 642.52 642.89 643.38 643.34 643.60 643.88 643.66 643.64 643.86 643.58 644.37 644.65 644.43 644.43 644.65 644.37 645.24 645.52 645.30 645.31 645.53 645.25 646.20 646.48 646.26 646.29 646.51 646.23 647.26 647.54 647.32 647.37 647.59 647.31 648.41 648.69 648.47 648.54 648.76 648.48 649.64 649.92 649.70 649.79 650.01 649.73 650.88 651.16 650.94 651.05 651.27 650.99 652.12 652.40 652.18 652.31 652.53 652.25 653.36 653.64 653.42 653.57 653.79 653.51

5' 14' 4.33' 11' 10' 11' 11' 4.33' 14' 5' 14' 11' 11' 14'

STA. 72+40.94WB USH 10/STH 42=
STA. 10+00.00FW FLEETWOOD DR.

BEGIN PROJECT 1500-37-71
STA. 70+00.00

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT GRADES	SHEET 78	E

2

N

PI: 79+01.63
Y=306961.229
X=226408.465

PI: 79+01.66
Y=306957.313
X=226408.292

USH 10/STH 42

S87°25'29"E

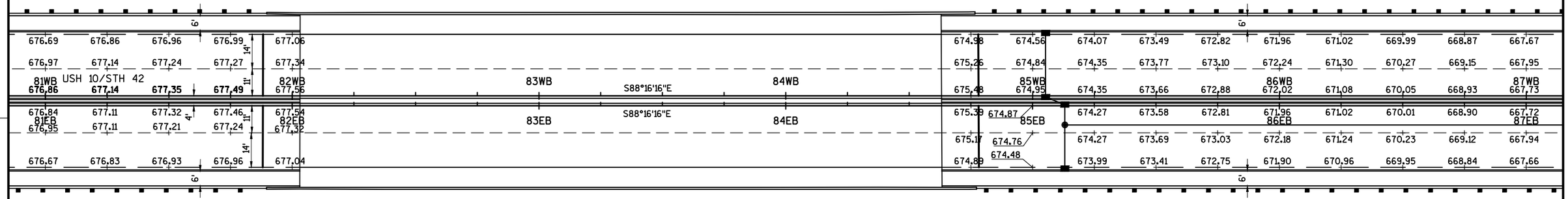
S89°17'04"E

S88°16'16"E

S88°16'16"E

| | | |

2



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT GRADES	SHEET 80	E

2

N

PI: 89+49.20

USH 10/STH 42

S88°16'16"E

S89°41'48"E

S88°16'16"E

S86°43'40"E

87WB 87EB 88WB 88EB 89WB 89EB 90WB 90EB 91WB 91EB 92WB 92EB 93WB 93EB

PI: 89+49.22

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT GRADES	SHEET 81	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_021804_GR.DWG PLOT DATE : 8/14/2017 10:45 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

2

PI STA. 93+35.21 USH 10/STH 42
Y=306927.664
X=227841.503

STA. 93+50.00 USH 10/STH 42
STA. 10+24.10 N. 23RD ST.
Y=306927.222
X=227856.291

CONSTRUCTION LIMITS
STA. 10+95 (NTR)

N. 23RD ST.

11NTR

N00°21'54"W

N

647.44 647.19 646.77 646.73 647.31 647.05 647.15 647.12 646.89

647.00 647.07 647.22 647.30 647.38 647.45 647.53 647.61 647.69 647.77 647.84 647.92 648.00 648.04 648.04 648.01 647.93 647.83 647.74 647.64 647.55 647.45 647.35 647.26

647.28 647.34 647.42 647.50 647.58 647.66 647.73 647.81 647.89 647.97 648.05 648.12 648.20 648.28 648.32 648.32 648.29 648.21 648.11 648.02 647.92 647.83 647.73 647.63 647.54

93WB S89°41'48"E 647.06 647.12 647.20 647.28 94WB 647.44 647.51 647.59 647.67 647.75 647.83 95WB S88°17'07"E 647.90 647.98 648.06 648.10 648.10 96WB 648.07 647.99 647.89 647.80 647.70 647.61 647.51 97WB 647.41 647.32 98WB 99WB

647.36 647.25 647.33 647.40 647.49 647.60 647.71

646.97 647.29 647.16 93EB S86°43'40"E 94EB 95EB S88°17'07"E 96EB USH 10/STH 42 97EB 98EB 99EB

646.95 647.04 647.38 647.29 647.41 647.54 647.66 647.78 647.91 648.03 648.16 648.28 648.40 648.52 648.58 648.57 648.49 648.34 648.16 647.97 647.79 647.60 647.41 647.23 647.04

647.17 647.26 647.11 647.51 647.63 647.76 647.88 648.00 648.13 648.25 648.38 648.50 648.62 648.74 648.80 648.79 648.71 648.56 648.38 648.19 648.01 647.82 647.63 647.45 647.26

646.89 646.99 647.11 647.23 647.35 647.48 647.60 647.72 647.85 647.97 648.10 648.22 648.34 648.46 648.52 648.51 648.43 648.28 648.10 647.91 647.73 647.54 647.35 647.17 646.98

646.99 647.11 646.79 647.17 646.83 646.74 647.19 646.82

CONSTRUCTION LIMITS
STA. 9+40 (NTR)

9NTR

N. 23RD ST.

N00°22'54"W

STA. 93+52.17WB USH 10/STH 42=
STA. 10+00.00 N. 23RD ST.
Y=306903.164
X=227857.692

PI STA. 93+35.25WB USH 10/STH 42=
Y=306903.670
X=227840.787

BP= 8+26.17

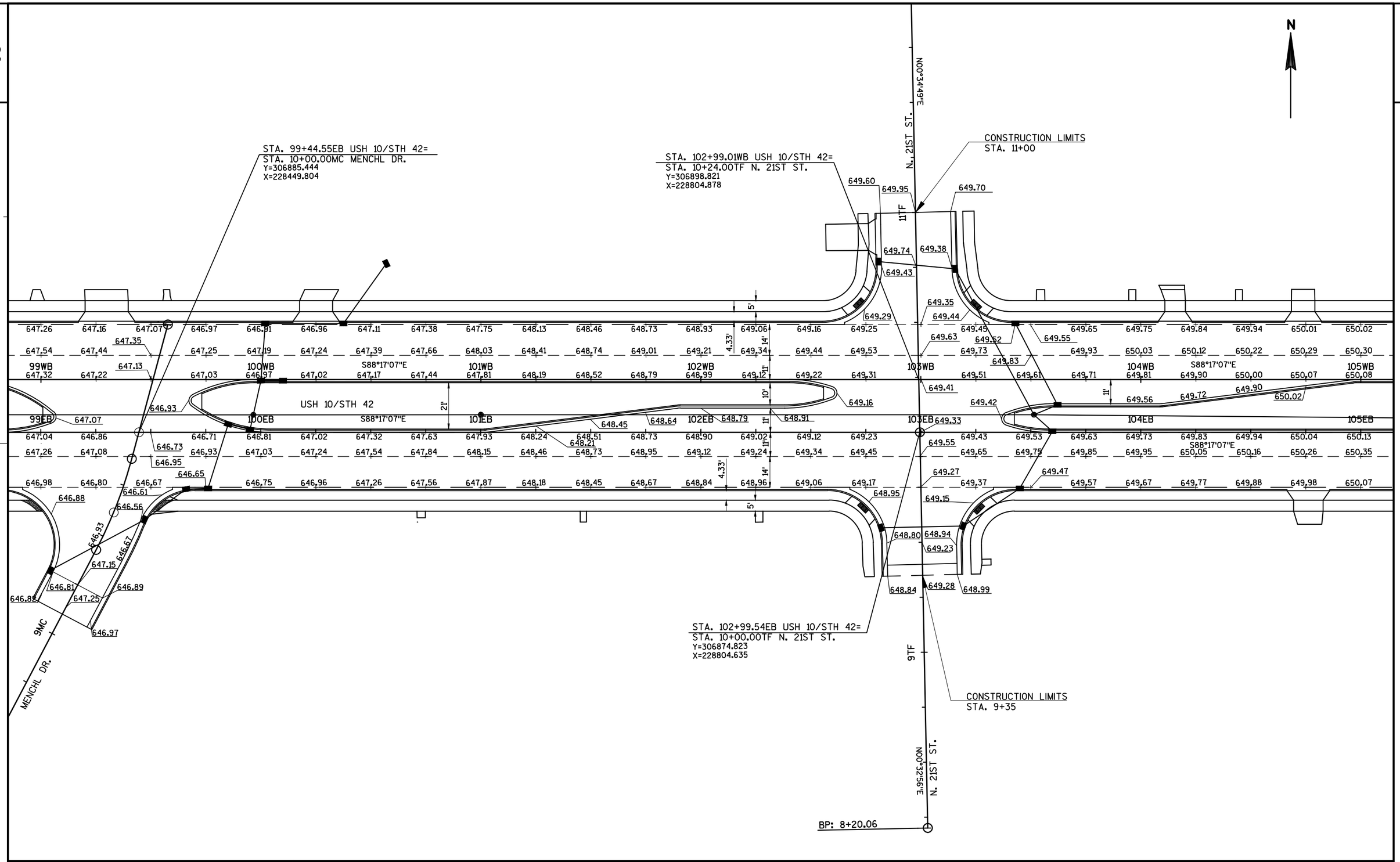
5' 14' 4.33' 11' 10' 21'

9MC

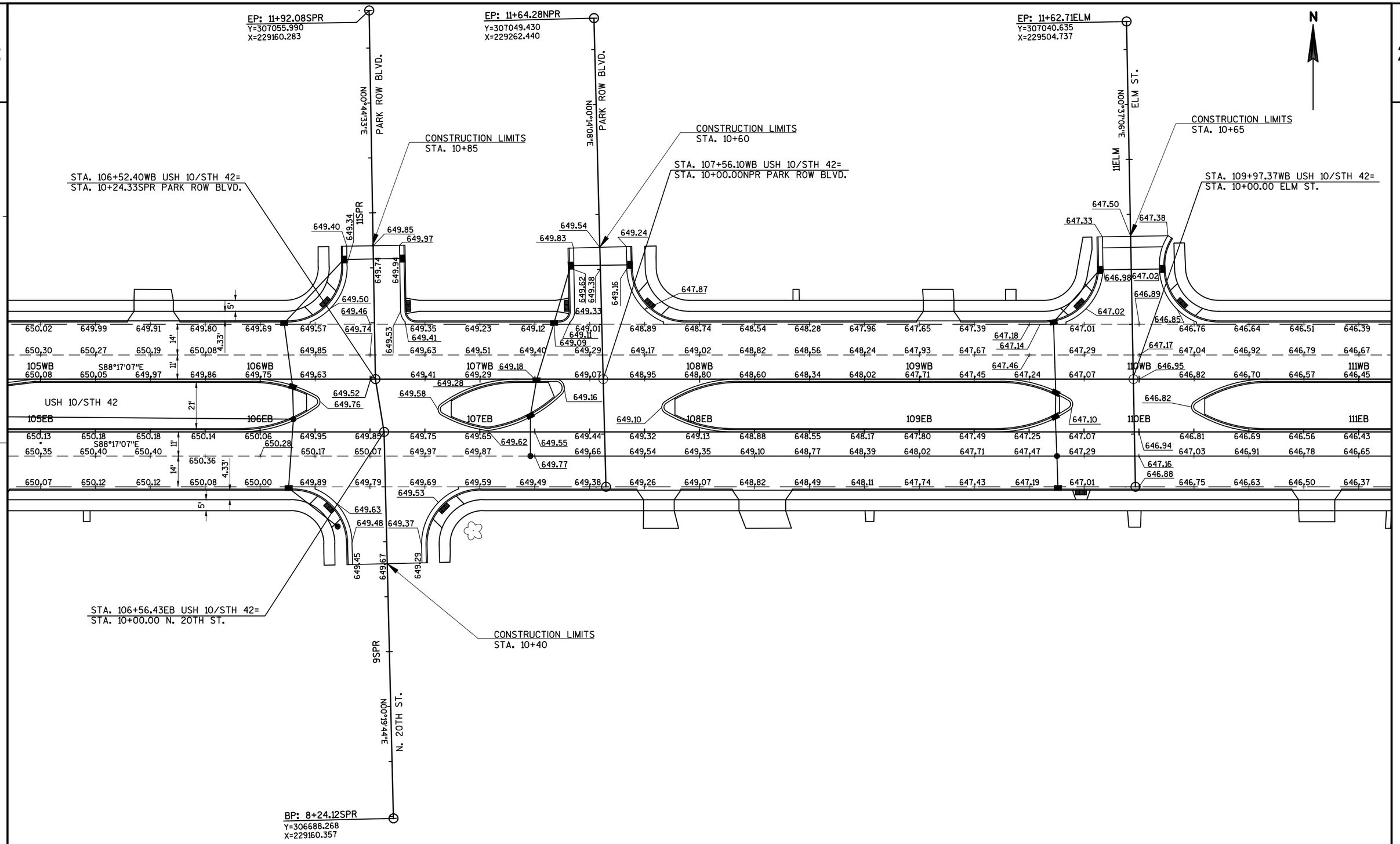
BP: 7+98.42

8MC

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT GRADES	SHEET 82	E



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT GRADES	SHEET 83	E

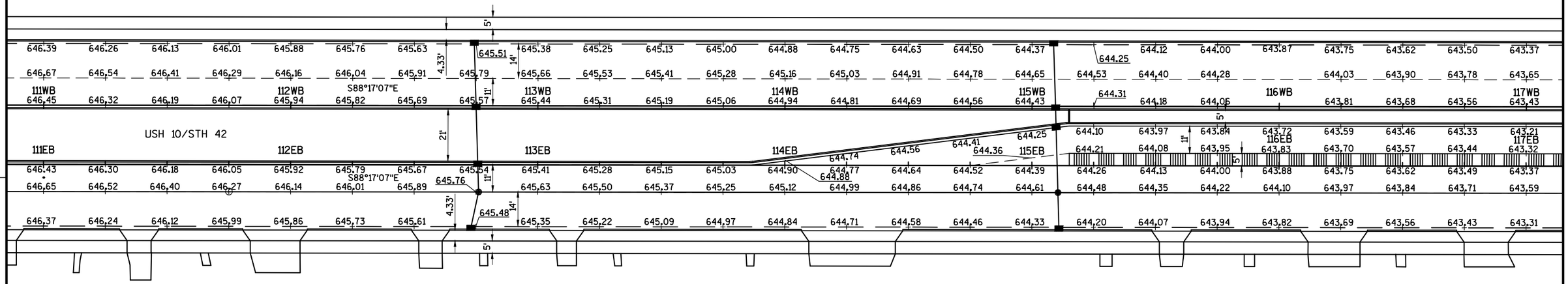


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT GRADES	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_021807_GR.DWG PLOT DATE : 8/14/2017 10:54 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

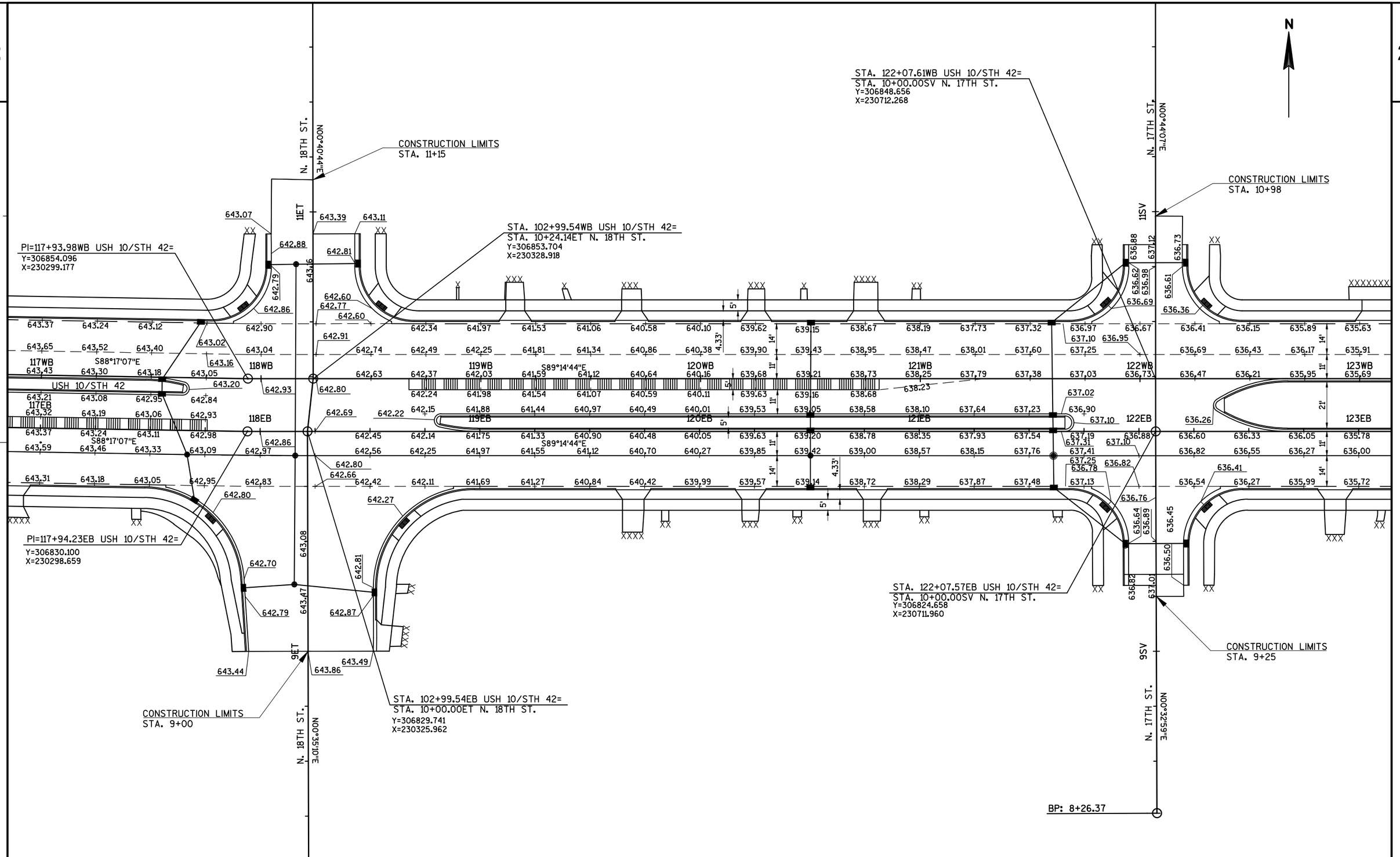
2

N

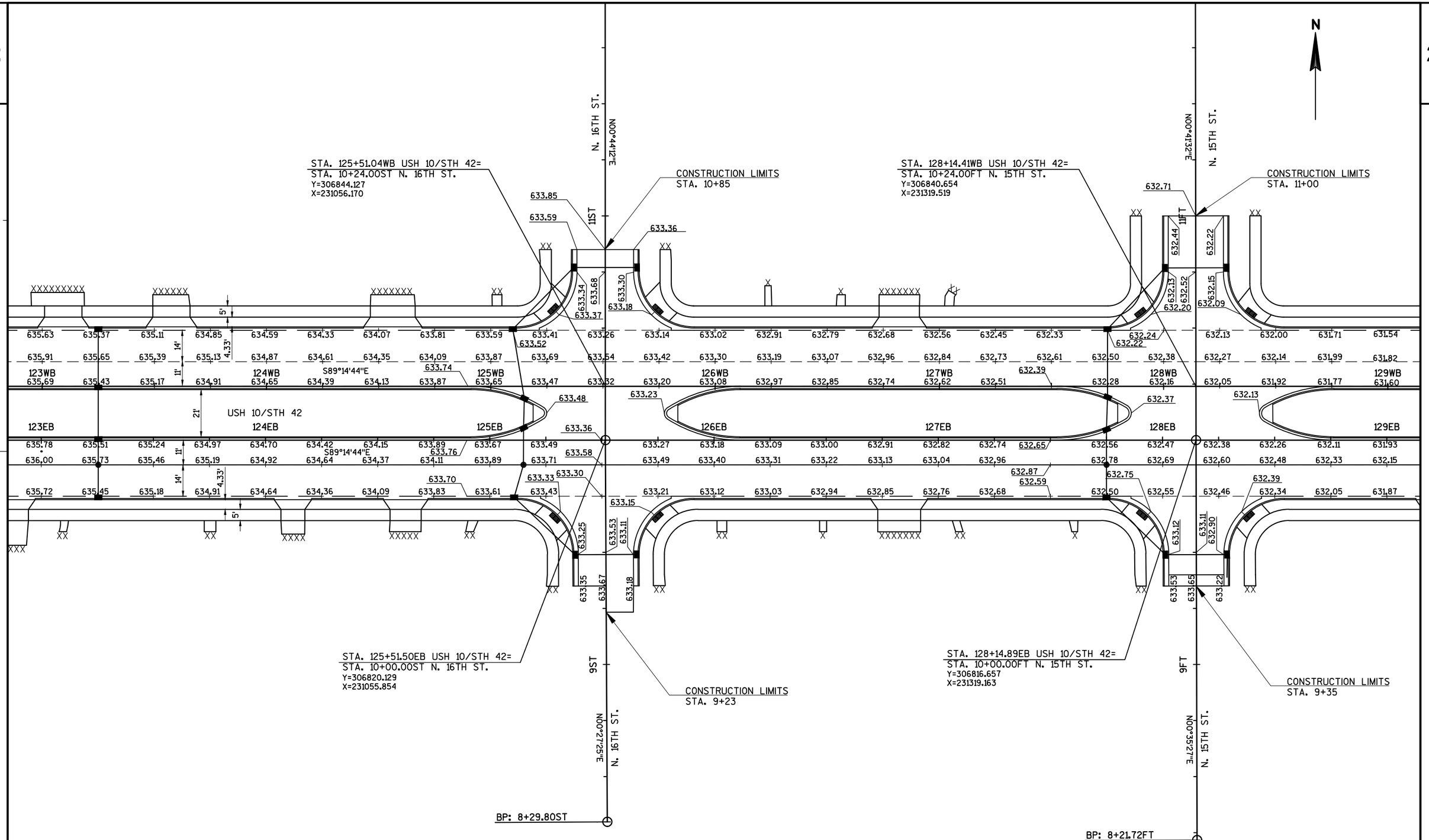


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT GRADES	SHEET	E

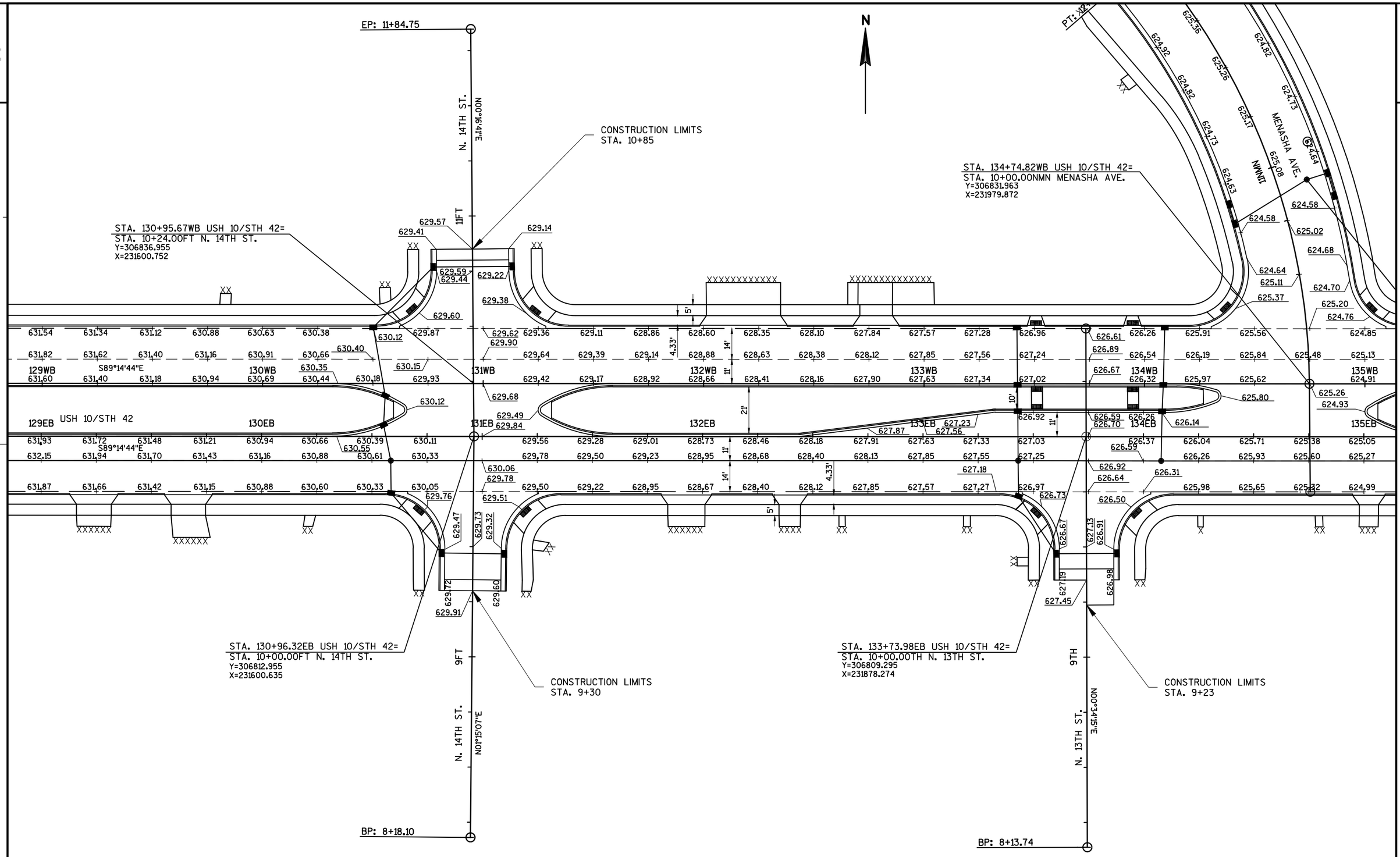
FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_021808_GR.DWG PLOT DATE : 8/14/2017 10:57 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT GRADES	SHEET	E



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT GRADES	SHEET 87	E



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT GRADES	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_021811_GR.DWG PLOT DATE : 8/14/2017 11:06 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF

2

N

CONSTRUCTION LIMITS
STA. 10+85

N. 12TH ST.
N00°54'22"E

STA. 136+51.31WB USH 10/STH 42=
STA. 10+24.00TW N. 12TH ST.
Y=306829.777
X=232156.350

PI: 135+31.21
Y=306831.219
X=232036.255

11TW

622.79 622.85 622.70 622.82 622.91 622.76 622.87

624.85 624.50 624.78 624.15 623.81 623.53 623.28 623.06 623.08 622.90 622.72 622.55 622.37 622.19 622.01 621.83 621.65 621.47 621.29 621.11 620.94 620.76 620.58 620.40 620.22 620.08 620.03 620.30

625.13 624.43 624.09 623.81 623.56 623.36 623.18 623.00 622.83 622.65 622.47 622.29 621.93 621.75 621.57 621.39 621.21 621.03 620.85 620.67 620.49 620.36

135WB 624.56 624.91 624.21 623.87 136WB 623.59 623.34 623.14 137WB 622.96 622.78 622.61 622.43 622.25 622.07 138WB 622.11 621.89 621.71 621.53 139WB 621.34 621.16 620.98 620.80 620.62 620.44 620.26 620.13 140WB 620.07 141WB

S89°14'44"E

USH 10/STH 42

625.05 624.72 624.39 623.78 623.51 623.26 623.02 622.80 622.61 622.43 622.25 622.08 621.90 621.73 621.55 621.37 621.20 621.02 620.85 620.67 620.50 620.32 620.19 620.14

*S89°14'44"E S89°18'48"E

625.27 624.94 624.61 624.08 624.00 623.73 623.24 623.02 622.83 622.65 622.47 622.30 622.12 621.95 621.77 621.59 621.41 621.24 621.06 620.89 620.71 620.54 620.40 620.35

624.30 624.02 623.48 623.20 623.22 622.96 622.74 622.55 622.37 622.19 622.02 621.84 621.67 621.49 621.30 621.12 620.95 620.77 620.59 620.42 620.24 620.11 620.06

622.84

622.78 623.04 622.77

PI: 135+31.67
Y=306807.222
X=232035.967

622.83 623.15 623.00 622.89

STA. 8+85.25TW N. 12TH ST.=
STA. 10+00.00SMN MENASHA AVE.
Y=306691.041
X=232155.094

9TW 623.49 623.24 623.04 623.72

N65°35'43"W 623.11 623.43 623.77 623.77 624.10 623.64

STA. 136+51.79WB USH 10/STH 42=
STA. 10+00.00TW N. 12TH ST.
Y=306805.778
X=232156.060

623.62 623.87 623.44 N. 12TH ST. MENASHA AVE.

624.00 624.26 624.05 N00°27'52"E 623.68 623.76 NWSS 624.42 623.88 624.63

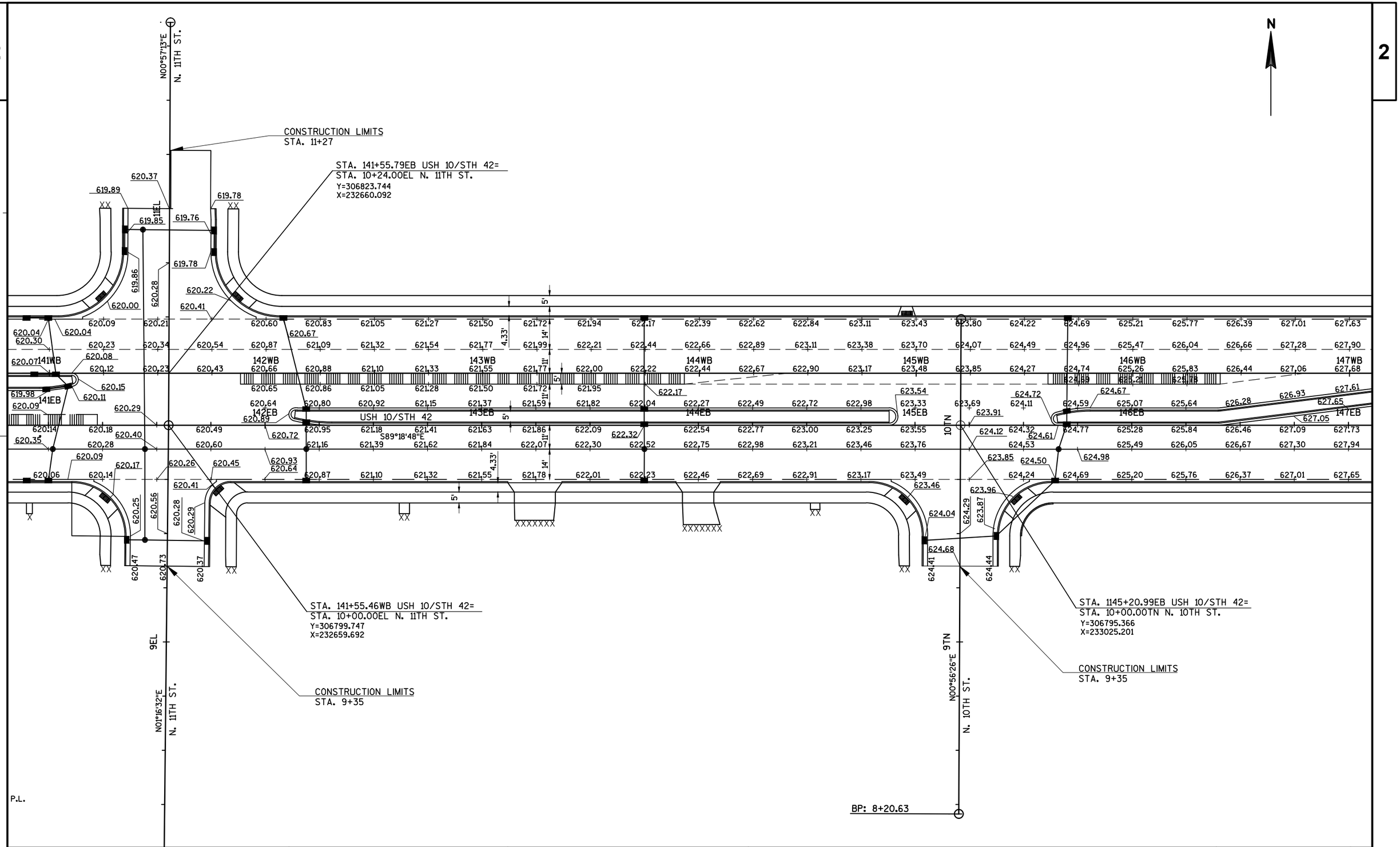
624.38 624.73 624.64 624.36 623.95 N39°50'36"W 624.06

CONSTRUCTION LIMITS
STA. 8+15

624.79 624.39

CONSTRUCTION LIMITS
STA. 8+85

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT GRADES	SHEET 89	E



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT GRADES	SHEET 90	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_021813_GR.DWG PLOT DATE : 8/14/2017 11:13 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

2

N

PI: 11+38.34

N. 9TH ST.

N. 8TH ST.

STA. 148+33.76 1WB USH 10/STH 42=
STA. 10+24.00 NN N. 9TH ST.
Y=306815.611
X=233338.710

STA. 128+14.41 WB USH 10/STH 42=
STA. 10+24.22 EG N. 8TH ST.
Y=306811.808
X=233656.009

USH 10/STH 42

147WB 148WB 149WB 150WB 151WB 152WB 153WB

147EB 148EB 149EB 150EB 151EB 152EB 153EB

S89°18'48"E

STA. 148+34.11 EB USH 10/STH 42=
STA. 10+00.00 NN N. 9TH ST.
Y=306791.614
X=233338.292

STA. 128+14.89 EB USH 10/STH 42=
STA. 10+00.00 EG N. 8TH ST.
Y=306787.849
X=233652.489

N00°45'50"E
N. 9TH ST.

N00°42'01"E
N. 8TH ST.

CONSTRUCTION LIMITS
STA. 9+00

CONSTRUCTION LIMITS
STA. 8+50

BP: 8+22.48

BP: 8+38.47

END PROJECT 1500-37-71
STA. 152+25.00

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT GRADES	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_021814_GR.DWG PLOT DATE : 8/14/2017 11:16 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

2

12EG

N. 8TH ST.

11EG

CONSTRUCTION LIMITS
STA. 10+85

STA. 155+62.51WB STH 42=
STA. 10+24.00SL LINCOLN BLVD.
Y=306806.877
X=234067.451

12SL

11SL

LINCOLN BLVD. (WEST)

12NL

11NL

LINCOLN BLVD. (EAST)

CONSTRUCTION LIMITS
STA. 10+85

STA. 156+20.55WB STH 42=
STA. 10+24.00NL LINCOLN BLVD.
Y=306806.183
X=234125.406

N

2

5'

14'

4.33'

11'

620.95 619.93 618.79 617.63 616.47 615.31 614.16 613.00 611.84 610.73 609.75 608.91 608.20 607.63 607.20 606.86 606.52 606.18 605.85 605.51

621.22 620.20 619.06 617.91 616.75 615.59 614.44 613.28 612.12 611.01 610.03 609.19 608.48 607.91 607.48 607.14 606.80 606.46 606.13 605.79

621.01 619.97 618.83 617.69 616.53 615.37 614.22 613.06 611.90 610.79 609.81 608.97 608.26 607.69 607.26 606.92 606.58 606.24 605.91 605.57

151WB 152WB 153WB 154WB 155WB 156WB 157WB

607.34 607.81 607.75 607.72 607.54 607.26 607.51 607.45 607.25 607.07

607.34 607.50 607.25 607.27 606.75 606.75 606.30

21'

STH 42

151EB 152EB 153EB 154EB 155EB 156EB 157EB

608.23 606.92 606.41 606.91

S89°18'48"E

10EG

621.68 621.90 620.79 621.00 619.77 619.98 618.63 618.85 617.41 617.63 616.19 616.41 614.96 615.18 613.74 613.96 612.52 612.74 611.35 611.57 610.33 610.55 609.46 609.68 608.75 608.97 608.19 608.41 607.75 607.97 607.33 607.55 607.13 606.71 606.49 606.07 605.65 606.29 605.87

621.61 620.71 619.69 618.57 617.35 616.13 614.90 613.68 612.46 611.29 610.27 609.40 608.69 608.13 608.00 607.69 607.27 607.14 606.85 606.65 606.43 606.01 605.59

607.94 607.75 607.11 607.41

608.02 608.24 607.55 607.60 607.51

608.60 608.81 608.76 609.11 608.62 608.55 608.29

609.05

608.90 609.17 608.93 608.61

9EG

N. 8TH ST.

BEGIN PROJECT 4570-12-71
STA. 152+25.00

STA. 155+63.03EB STH 42=
STA. 10+00.00SL LINCOLN BLVD.
Y=306782.879
X=234067.164

CONSTRUCTION LIMITS
STA. 9+35

9SL

9NL

STA. 156+21.05EB STH 42=
STA. 10+00.00NL LINCOLN BLVD.
Y=306782.184
X=234125.177

N01°09'50"E

LINCOLN BLVD. (WEST)

CONSTRUCTION LIMITS
STA. 9+35

N01°10'52"E

LINCOLN BLVD. (EAST)

BP: 8+38.47

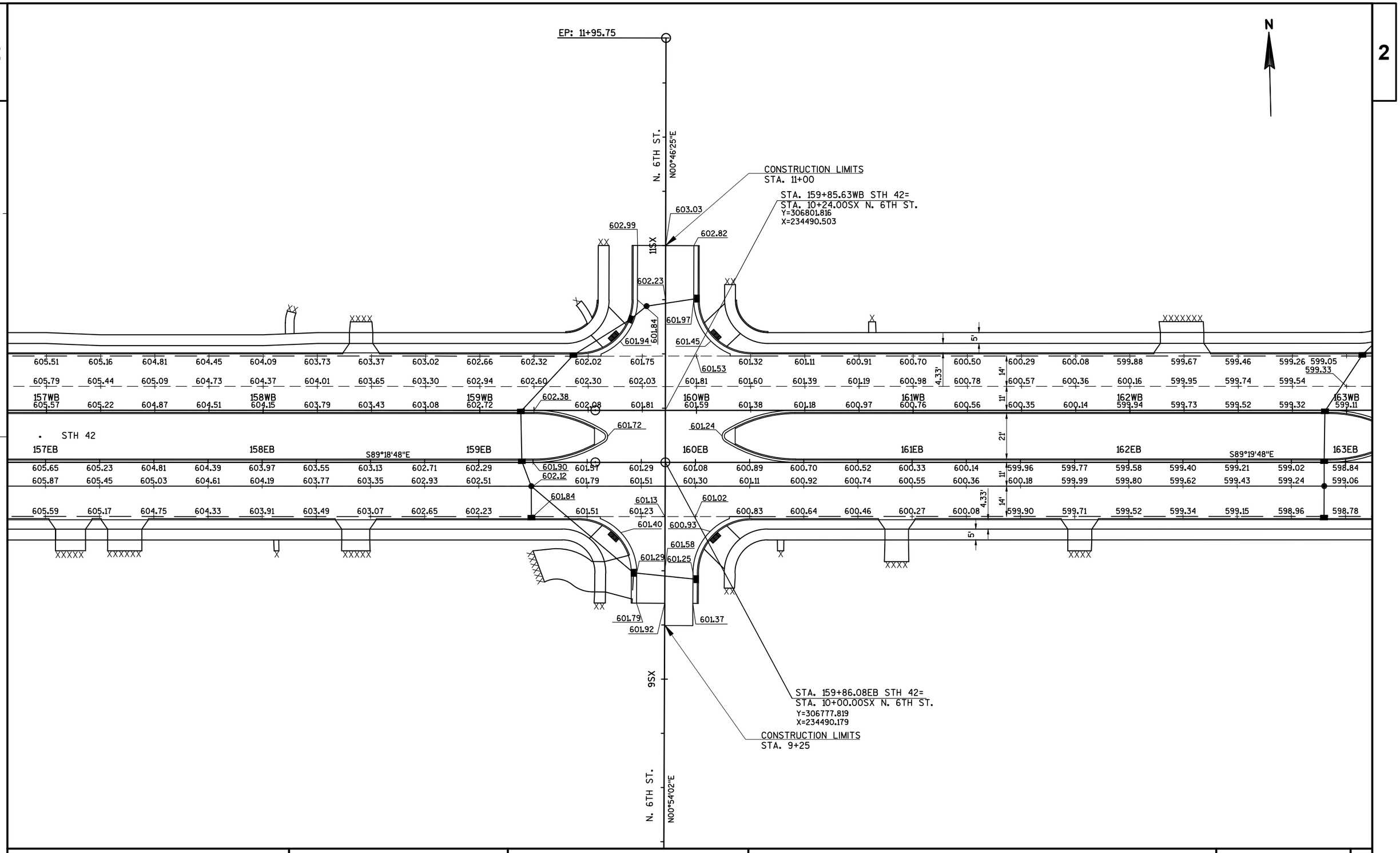
BP: 8+27.47

BP: 8+29.28

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PAVEMENT GRADES	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_021801_GR.DWG PLOT DATE : 8/14/2017 11:18 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF

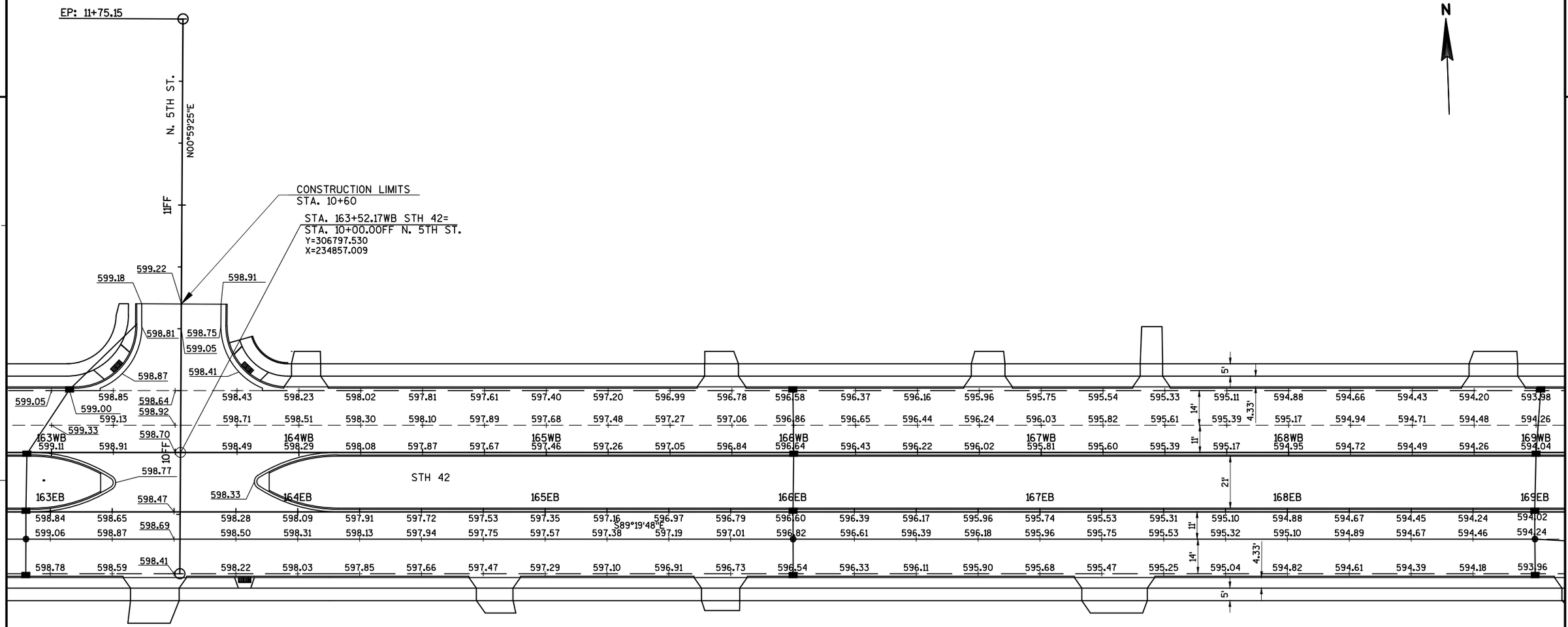
WISDOT/CADDS SHEET 42



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PAVEMENT GRADES	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_021802_GR.DWG PLOT DATE : 8/14/2017 11:21 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PAVEMENT GRADES	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_021803_GR.DWG PLOT DATE : 8/14/2017 11:23 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

2

2

N

5'

4.33'

14'

11'

593.98 593.75 593.52 593.29 593.07 592.84 592.61 592.39 592.16 591.93 591.70 591.48 591.25 591.02 590.79 590.57 590.34 590.08 589.82 589.56 589.30 589.05 588.79 588.53 588.27

594.26 594.03 593.80 593.57 593.35 593.12 592.89 592.67 592.44 592.21 591.98 591.76 591.53 591.30 591.07 590.85 590.62 590.36 590.10 589.84 589.59 589.33 589.07 588.81 588.55

169WB 170WB 171WB 172WB 173WB 174WB 175WB

594.04 593.81 593.58 593.35 593.13 592.90 592.67 592.45 592.22 591.99 591.76 591.54 591.31 591.08 590.85 590.63 590.40 590.14 589.88 589.62 589.37 589.11 588.85 588.59 588.33

S89°19'48"E

STH 42

21'

169EB 170EB 171EB 172EB 173EB 174EB 175EB

S89°19'48"E

594.02 593.81 593.59 593.38 593.16 592.95 592.73 592.52 592.30 592.09 591.87 591.66 591.44 591.23 591.01 590.78 590.56 590.33 590.10 589.88 589.65 589.42 589.20 588.97 588.75

594.24 594.03 593.81 593.60 593.38 593.17 592.95 592.74 592.52 592.31 592.09 591.88 591.66 591.45 591.23 591.00 590.78 590.55 590.32 590.10 589.87 589.64 589.42 589.19 588.97

592.24 592.03

593.96 593.75 593.53 593.32 593.10 592.89 592.67 592.46 591.81 591.60 591.38 591.17 590.95 590.72 590.50 590.27 590.04 589.82 589.59 589.36 589.14 588.91 588.69

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PAVEMENT GRADES	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_021804_GR.DWG PLOT DATE : 8/14/2017 11:25 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

2

2

N

5'

588.27 588.01 587.76 587.53 587.33 587.15 587.00 586.87 586.76 586.68 586.62 586.59 586.58 586.59 586.63 586.70 586.78 586.90 587.02 587.15 587.28 587.41 587.54 587.65 587.77

588.55 588.29 588.04 587.81 587.61 587.43 587.28 587.15 587.04 586.96 586.90 586.87 586.86 586.87 586.91 586.98 587.06 587.18 587.30 587.43 587.56 587.69 587.82 587.93 588.05

14' 4.33'

175WB 176WB 177WB 178WB 179WB 180WB 181WB

588.33 588.07 587.82 587.59 587.39 587.21 587.06 586.93 586.82 586.74 586.68 586.65 586.64 586.65 586.69 586.76 586.84 586.96 587.08 587.21 587.34 587.47 587.60 587.71 587.83

11'

STH 42

21'

175EB 176EB 177EB 178EB 179EB 180EB 181EB

588.75 588.52 588.29 588.07 587.84 587.61 587.39 587.16 586.94 586.75 586.62 586.54 586.53 586.56 586.66 586.77 586.88 586.99 587.11 587.22 587.33 587.44 587.56 587.67 587.80

11'

588.97 588.74 588.51 588.29 588.06 587.83 587.61 587.38 587.16 586.97 586.84 586.76 586.78 586.88 586.99 587.10 587.21 587.33 587.44 587.55 587.66 587.78 587.89 588.02

14' 4.33'

586.75 586.47

587.16

588.69 588.46 588.23 588.01 587.78 587.55 587.33 587.10 586.88 586.69 586.56 586.48 586.50 586.60 586.71 586.82 586.93 587.05 587.27 587.38 587.50 587.61 587.74

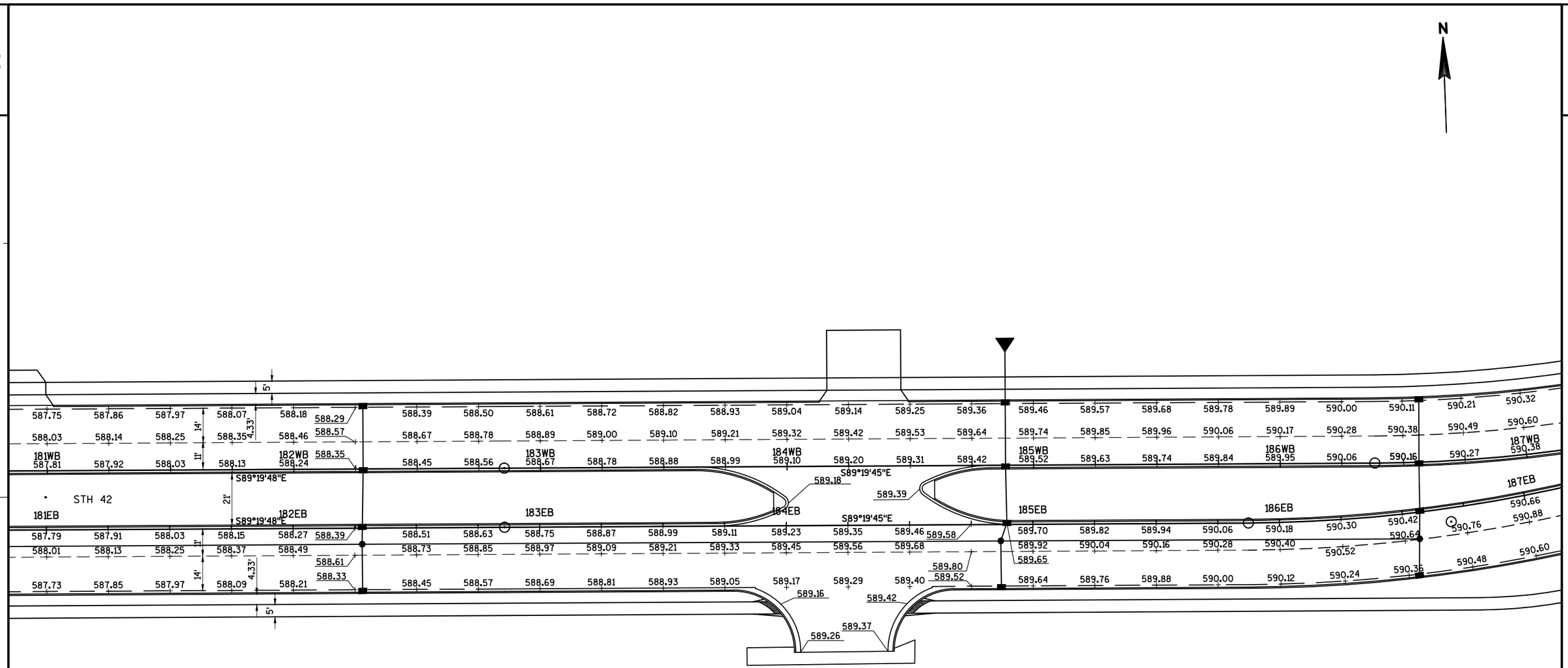
5'

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PAVEMENT GRADES	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_021805_GR.DWG PLOT DATE : 8/14/2017 11:27 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

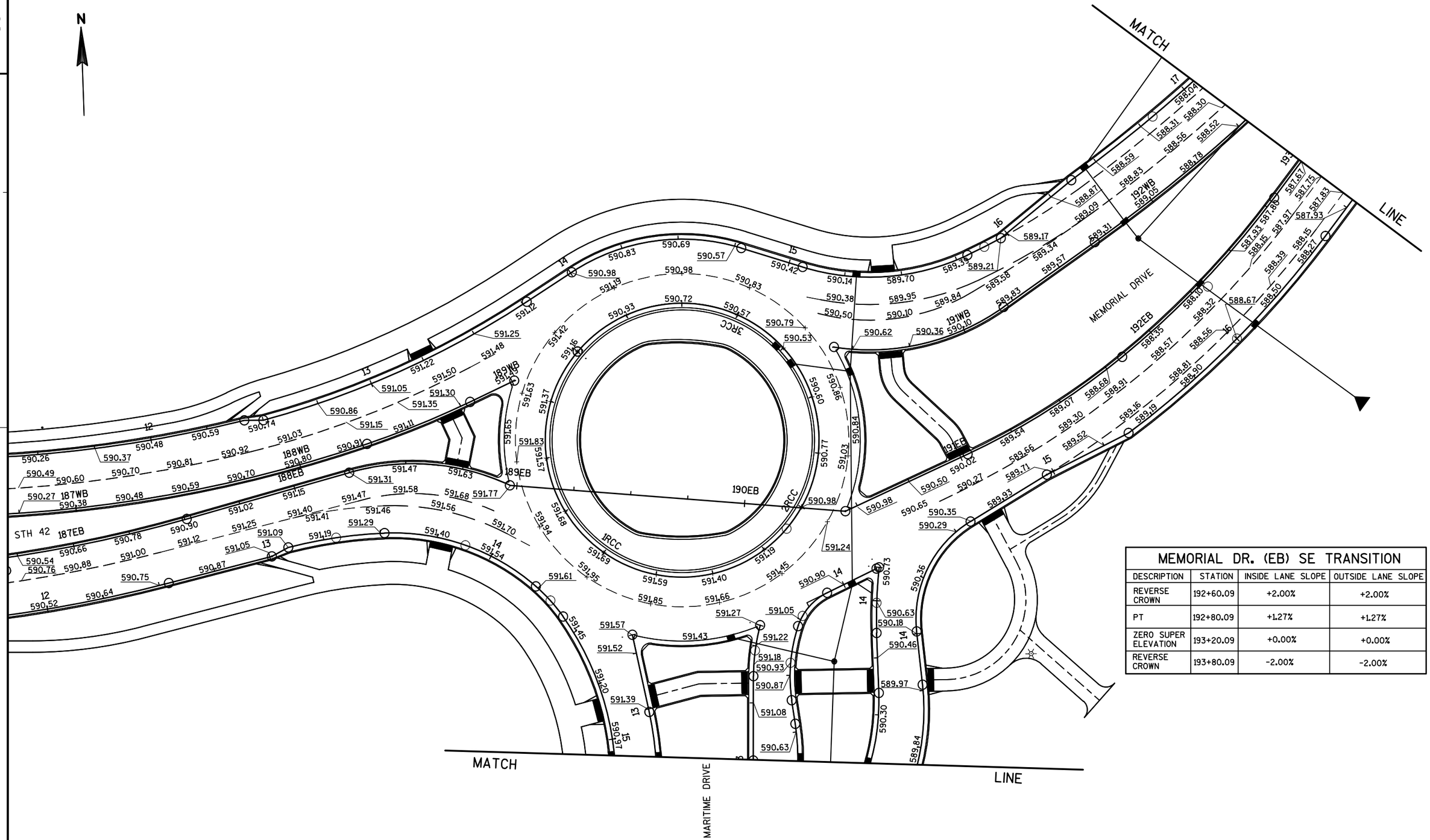
WISDOT/CADDS SHEET 42

2



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PAVEMENT GRADES	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_021806_GR.DWG PLOT DATE : 8/14/2017 11:30 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF

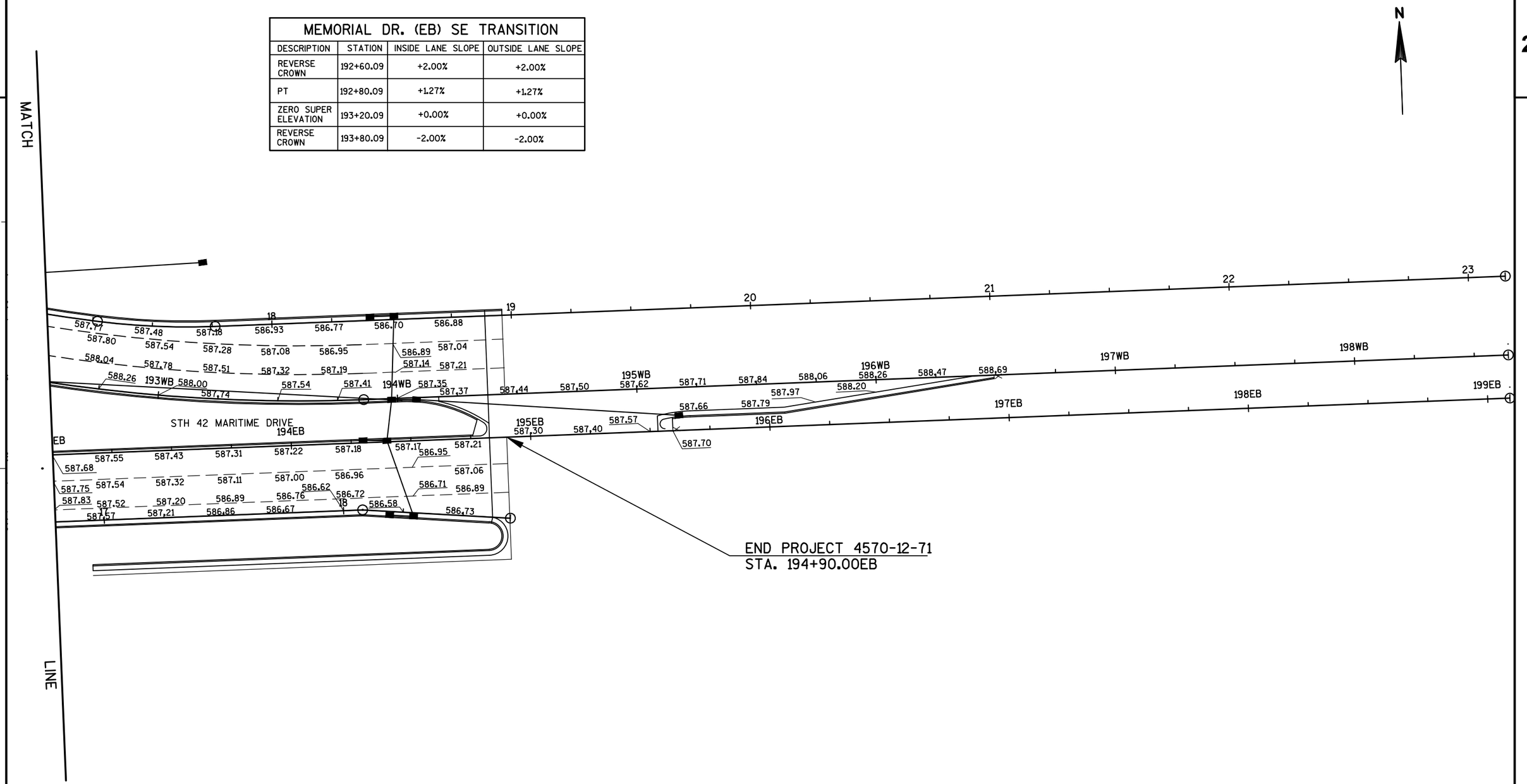


MEMORIAL DR. (EB) SE TRANSITION			
DESCRIPTION	STATION	INSIDE LANE SLOPE	OUTSIDE LANE SLOPE
REVERSE CROWN	192+60.09	+2.00%	+2.00%
PT	192+80.09	+1.27%	+1.27%
ZERO SUPER ELEVATION	193+20.09	+0.00%	+0.00%
REVERSE CROWN	193+80.09	-2.00%	-2.00%

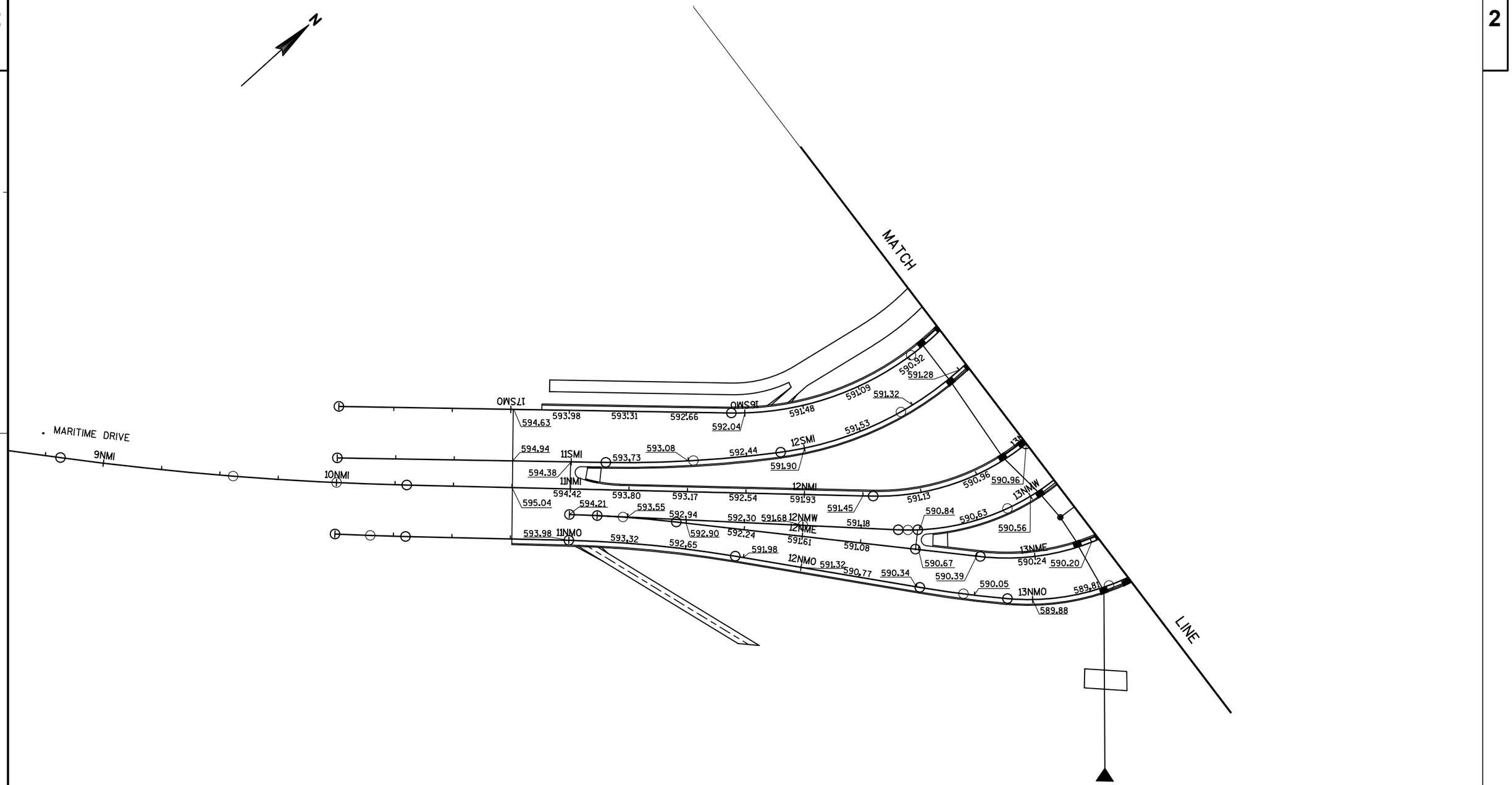
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PAVEMENT GRADES	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_021807_GR.DWG PLOT DATE : 8/14/2017 11:32 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF

MEMORIAL DR. (EB) SE TRANSITION			
DESCRIPTION	STATION	INSIDE LANE SLOPE	OUTSIDE LANE SLOPE
REVERSE CROWN	192+60.09	+2.00%	+2.00%
PT	192+80.09	+1.27%	+1.27%
ZERO SUPER ELEVATION	193+20.09	+0.00%	+0.00%
REVERSE CROWN	193+80.09	-2.00%	-2.00%



2



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PAVEMENT GRADES	SHEET 100	E

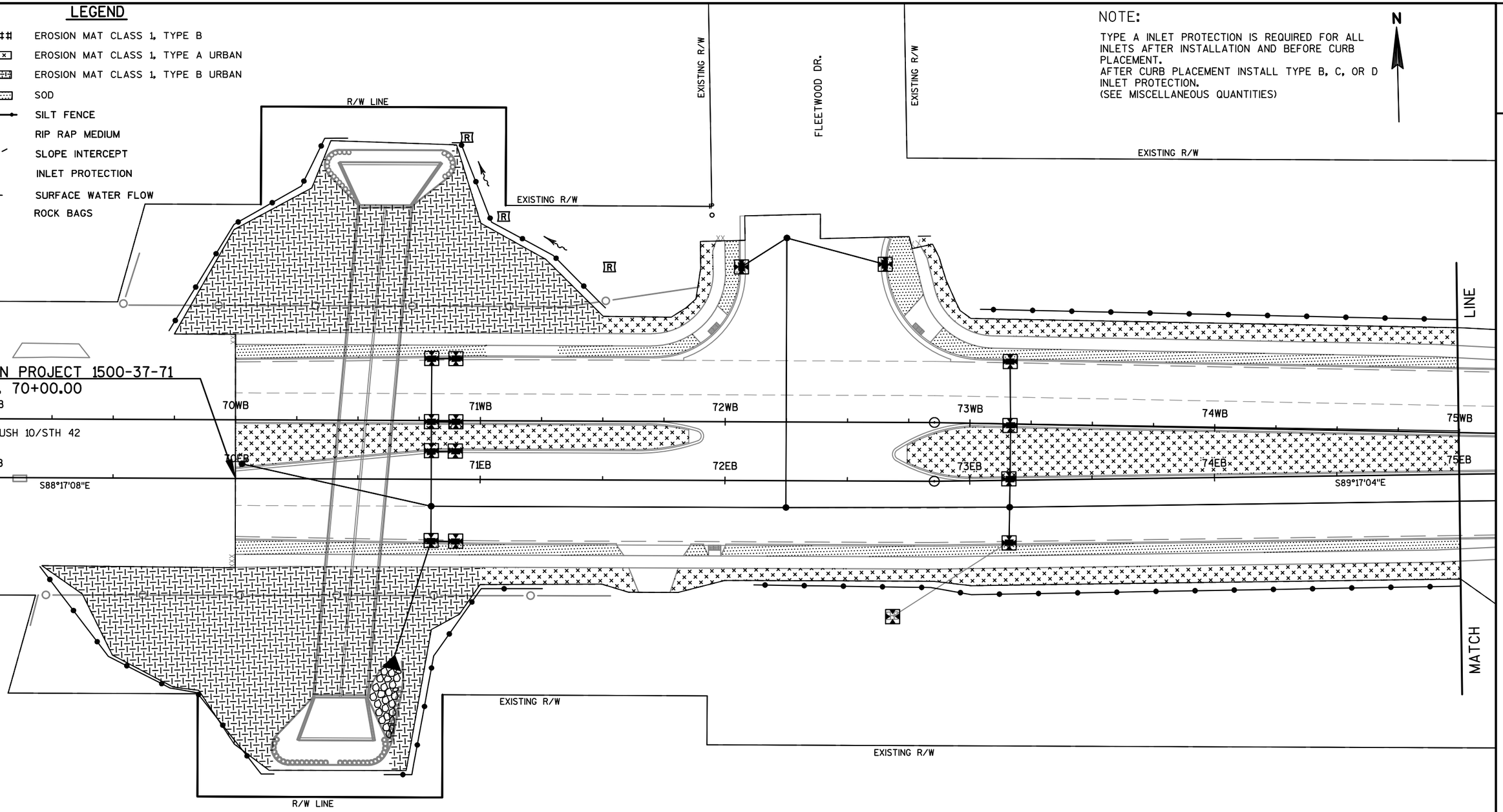
LEGEND

- EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- EROSION MAT CLASS 1, TYPE B URBAN
- SOD
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- [R] ROCK BAGS

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET 101	E

2

LEGEND

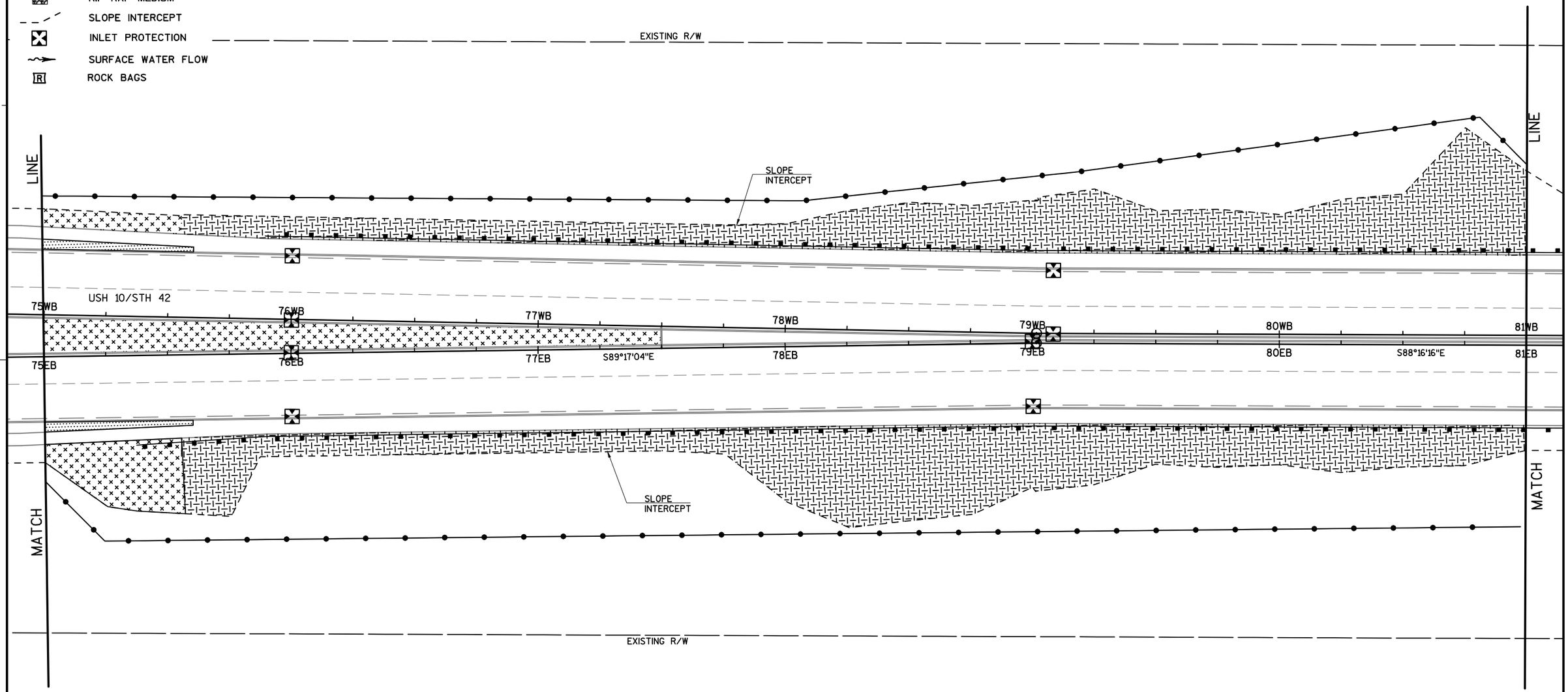
- EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- EROSION MAT CLASS 1, TYPE B URBAN
- SOD
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- ROCK BAGS

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N

2



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET 102	E

2

LEGEND

- ###### EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- EROSION MAT CLASS 1, TYPE B URBAN
- SOD
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- [R] ROCK BAGS

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N

2

EXISTING R/W

EXISTING R/W

EXISTING R/W

EXISTING R/W

EXISTING R/W

LINE

LINE

SLOPE INTERCEPT

SLOPE INTERCEPT

USH 10/STH 42

81WB 82WB 83WB S88°16'16"E 84WB 85WB 86WB 87WB

81EB 82EB 83EB S88°16'16"E 84EB 85EB 86EB 87EB

MATCH

MATCH

EXISTING R/W

EXISTING R/W

EXISTING R/W

EXISTING R/W

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET 103	E

LEGEND

- EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- EROSION MAT CLASS 1, TYPE B URBAN
- SOD
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- ROCK BAGS

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N

2

2

EXISTING R/W

EXISTING R/W

LINE

LINE

SLOPE INTERCEPT

87WB

USH 10/STH 42

88WB

89WB

90WB

91WB

92WB

93WB

87EB

88EB

S88°16'16"E

89EB

90EB

S86°43'40"E

91EB

92EB

93EB

MATCH

MATCH

SLOPE INTERCEPT

EXISTING R/W

IP

IP

EXISTING R/W

PROJECT NO:1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET 104	E

LEGEND

- EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- EROSION MAT CLASS 1, TYPE B URBAN
- SOD
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- ROCK BAGS

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N

2

EXISTING R/W

N. 23RD ST.

EXISTING R/W

EXISTING R/W

LINE

TLE LINE

SLOPE INTERCEPT

TLE LINE

EXISTING R/W

LINE

93WB 94WB 95WB 96WB 97WB 98WB 99WB

USH 10/STH 42

95EB 96EB 97EB 98EB 99EB

S86°43'40"E

93EB

94EB

S88°17'07"E

EXISTING R/W

MATCH

TLE LINE

SLOPE INTERCEPT

TLE LINE

MATCH

N. 23RD ST.

EXISTING R/W

EXISTING R/W

EXISTING R/W

MEINCHL DR.

EXISTING R/W

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_022005_EC.DWG PLOT DATE : 8/14/2017 3:01 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

LEGEND

- ###### EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- EROSION MAT CLASS 1, TYPE B URBAN
- SOD
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- [R] ROCK BAGS

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N

2

2

WISCONSIN CENTRAL LTD.

EXISTING R/W

N. 21ST ST.

LINE

MATCH

SLOPE INTERCEPT

TLE LINE

99WB 100WB 101WB 102WB 103WB 104WB 105WB

99EB 100EB 101EB 102EB 103EB 104EB 105EB

USH 10/STH 42

S88°17'07"E

MENCHL DR.

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_022006_EC.DWG PLOT DATE : 7/26/2018 3:06 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

LEGEND

- ###### EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- EROSION MAT CLASS 1, TYPE B URBAN
- SOD
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- [R] ROCK BAGS

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N

EXISTING R/W
PARK ROW BLVD.
EXISTING R/W
EXISTING R/W
PARK ROW BLVD.
EXISTING R/W
EXISTING R/W
ELM ST.
EXISTING R/W
EXISTING R/W

LINE
TLE LINE
EXISTING R/W
SLOPE INTERCEPT
TLE LINE
EXISTING R/W
EXISTING R/W
LINE

105WB USH 10/STH 42 106WB 107WB 108WB 109WB 110WB 111WB
105EB 106EB 107EB 108EB 109EB 110EB 111EB
S88°17'07"E

EXISTING R/W
TLE LINE
EXISTING R/W
TLE LINE
EXISTING R/W
TLE LINE
SLOPE INTERCEPT
MATCH
MATCH

EXISTING R/W
N. 20TH ST.
EXISTING R/W

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	EROSION CONTROL	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_022007_EC.DWG PLOT DATE : 8/14/2017 3:08 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 42

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N

EXISTING R/W

CLERMONT ST.

LINE

IP

SLOPE INTERCEPT

USH 10/STH 42

111WB 112WB 113WB 114WB 115WB 116WB 117WB

111EB 112EB 113EB 114EB 115EB 116EB 117EB

S88°17'07"E

TLE LINE

MATCH

LEGEND

- ###### EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- EROSION MAT CLASS 1, TYPE B URBAN
- SOD
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- [R] ROCK BAGS

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_022008_EC.DWG PLOT DATE : 8/14/2017 3:11 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF

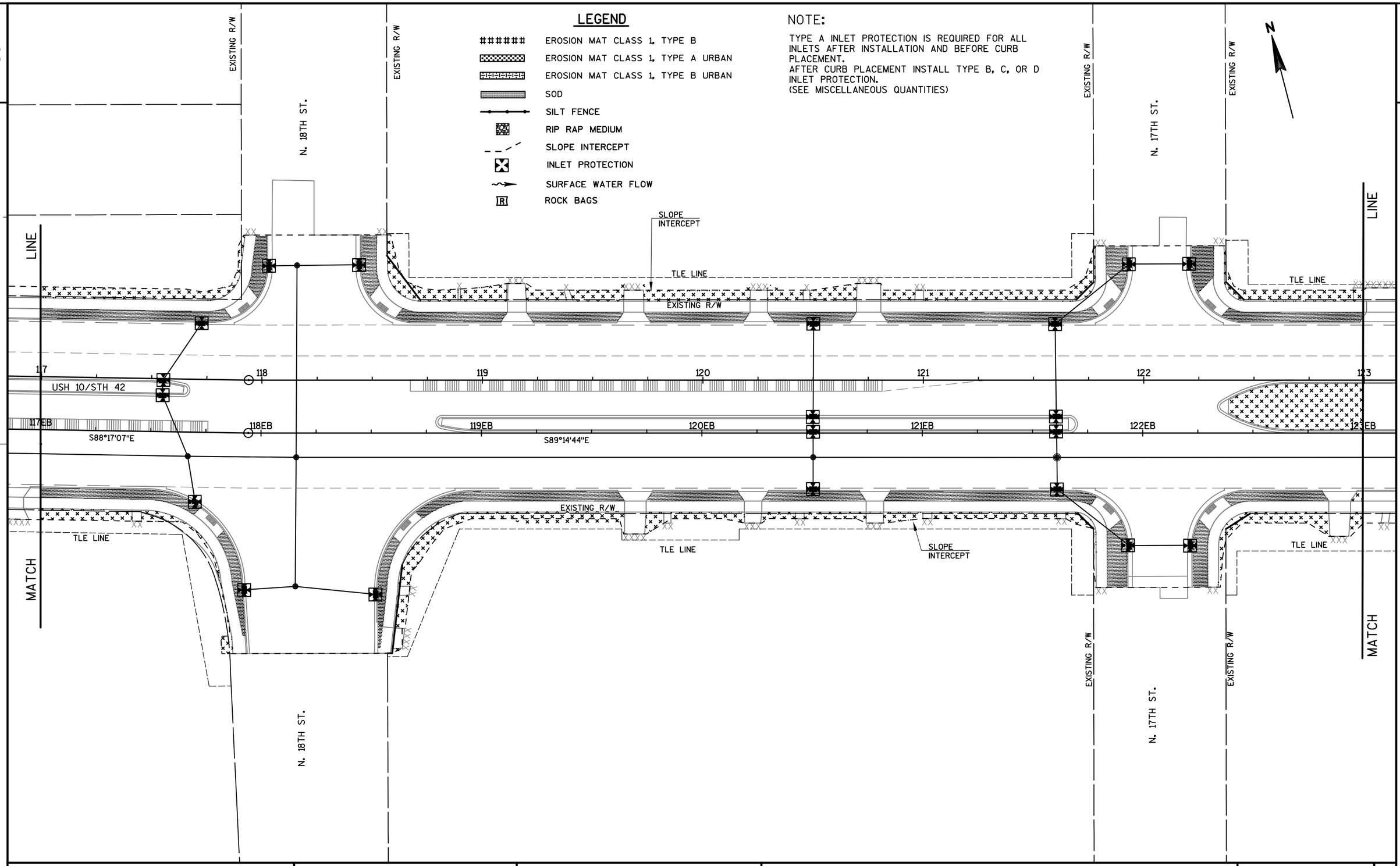
WISDOT/CADDS SHEET 42

LEGEND

- EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- EROSION MAT CLASS 1, TYPE B URBAN
- SOD
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- ROCK BAGS

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_022009_EC.DWG PLOT DATE : 8/14/2017 3:15 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

LEGEND

- ###### EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- EROSION MAT CLASS 1, TYPE B URBAN
- SOD
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- [R] ROCK BAGS

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N

2

2

LINE

SLOPE INTERCEPT

TLE LINE

EXISTING R/W

EXISTING R/W

N. 16TH ST.

EXISTING R/W

EXISTING R/W

N. 15TH ST.

EXISTING R/W

TLE LINE

EXISTING R/W

TLE LINE

EXISTING R/W

LINE

123WB USH 10/STH 42 124WB 125WB 126WB 127WB 128WB 129WB

123EB 124EB 125EB 126EB 127EB 128EB 129EB

MATCH

SLOPE INTERCEPT

EXISTING R/W

TLE LINE

EXISTING R/W

TLE LINE

EXISTING R/W

TLE LINE

EXISTING R/W

N. 16TH ST.

EXISTING R/W

EXISTING R/W

N. 15TH ST.

EXISTING R/W

MATCH

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_022010_EC.DWG PLOT DATE : 8/14/2017 3:19 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

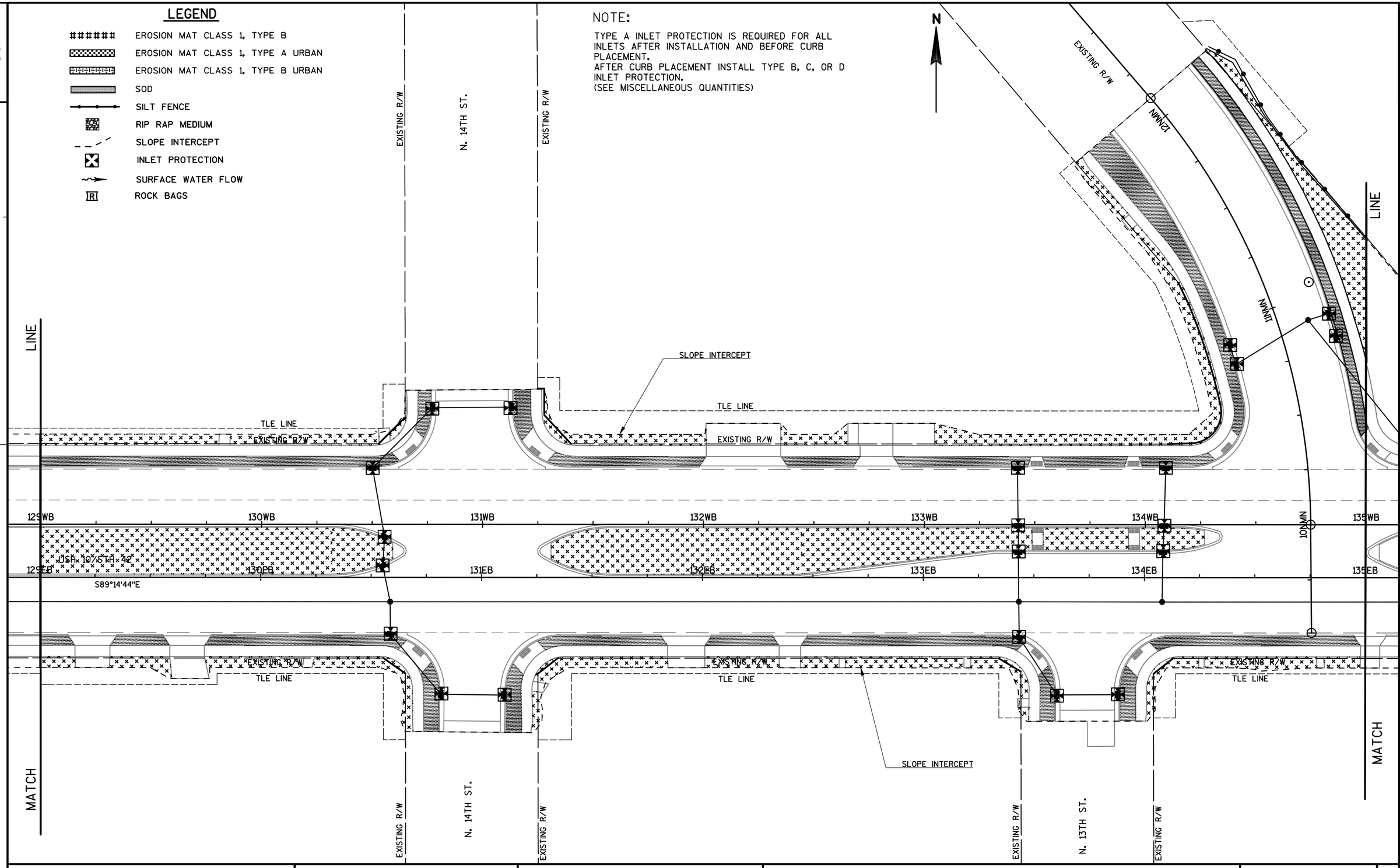
WISDOT/CADDS SHEET 42

LEGEND

- ###### EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- EROSION MAT CLASS 1, TYPE B URBAN
- SOD
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- ROCK BAGS

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_022011_EC.DWG PLOT DATE : 8/14/2017 3:23 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 42

LEGEND

- EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- EROSION MAT CLASS 1, TYPE B URBAN
- SOD
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- ROCK BAGS

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N

2

2

LINE

MATCH

MATCH

EXISTING R/W

EXISTING R/W

EXISTING R/W

EXISTING R/W

EXISTING R/W

N. 12TH ST.

11TW

10TW

9TW

8TW

SLOPE INTERCEPT

SLOPE INTERCEPT

135WB

136WB

137WB

138WB

139WB

140WB

141WB

135EB

136EB

137EB

138EB

139EB

140EB

141EB

S89°14'44"E

USH 10/STH 42

S89°18'48"E

IP

IP

IP

LEGEND

- EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- EROSION MAT CLASS 1, TYPE B URBAN
- SOD
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- ROCK BAGS

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N

2

2

LINE

EXISTING R/W

N. 11TH ST.

EXISTING R/W

SLOPE INTERCEPT

TLE LINE

EXISTING R/W

LINE

141WB 142WB 143WB 144WB 145WB 146WB 147WB

141EB 142EB USH 10/STH 42 143EB 144EB 145EB 146EB 147EB

S89°18'48"E

EXISTING R/W

TLE LINE

IP

EXISTING R/W

TLE LINE

MATCH

SLOPE INTERCEPT

MATCH

EXISTING R/W

N. 11TH ST.

EXISTING R/W

EXISTING R/W

N. 10TH ST.

EXISTING R/W

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_022013_EC.DWG PLOT DATE : 8/14/2017 3:30 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

LEGEND

- EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- EROSION MAT CLASS 1, TYPE B URBAN
- SOD
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- ROCK BAGS

NOTE:
TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N

LINE

EXISTING R/W
N. 9TH ST.
EXISTING R/W
EXISTING R/W
N. 8TH ST.
EXISTING R/W

TLE LINE
EXISTING R/W
SLOPE INTERCEPT
TLE LINE
EXISTING R/W
TLE LINE
EXISTING R/W

147WB 148WB 149WB 150WB 151WB 152WB 153WB

USH 10/STH 42

147EB 148EB 149EB 150EB 151EB 152EB 153EB

S89°18'48"E

MATCH

EXISTING R/W
TLE LINE
EXISTING R/W
TLE LINE
SLOPE INTERCEPT
EXISTING R/W
TLE LINE

END PROJECT 1500-37-71
STA. 152+25.00

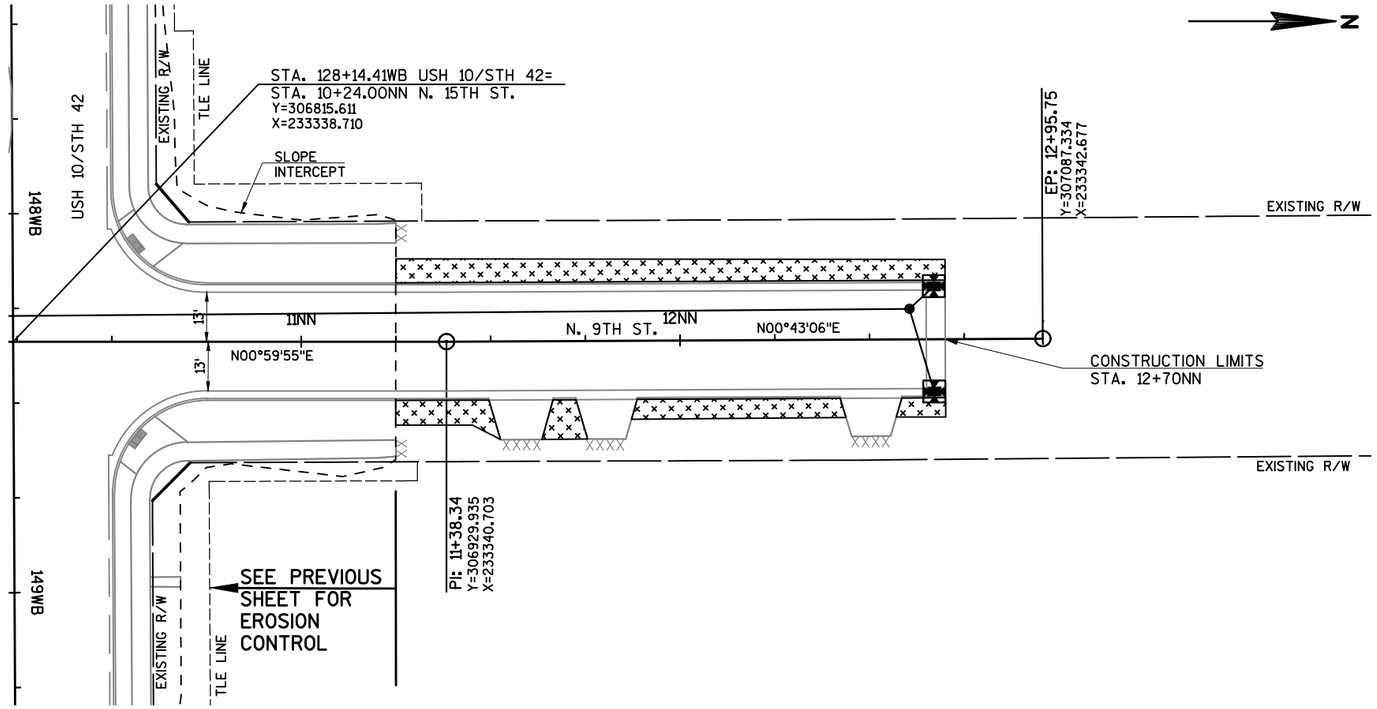
EXISTING R/W
N. 9TH ST.
EXISTING R/W
N. 8TH ST.
EXISTING R/W
EXISTING R/W

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_022014_EC.DWG PLOT DATE : 8/14/2017 3:33 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

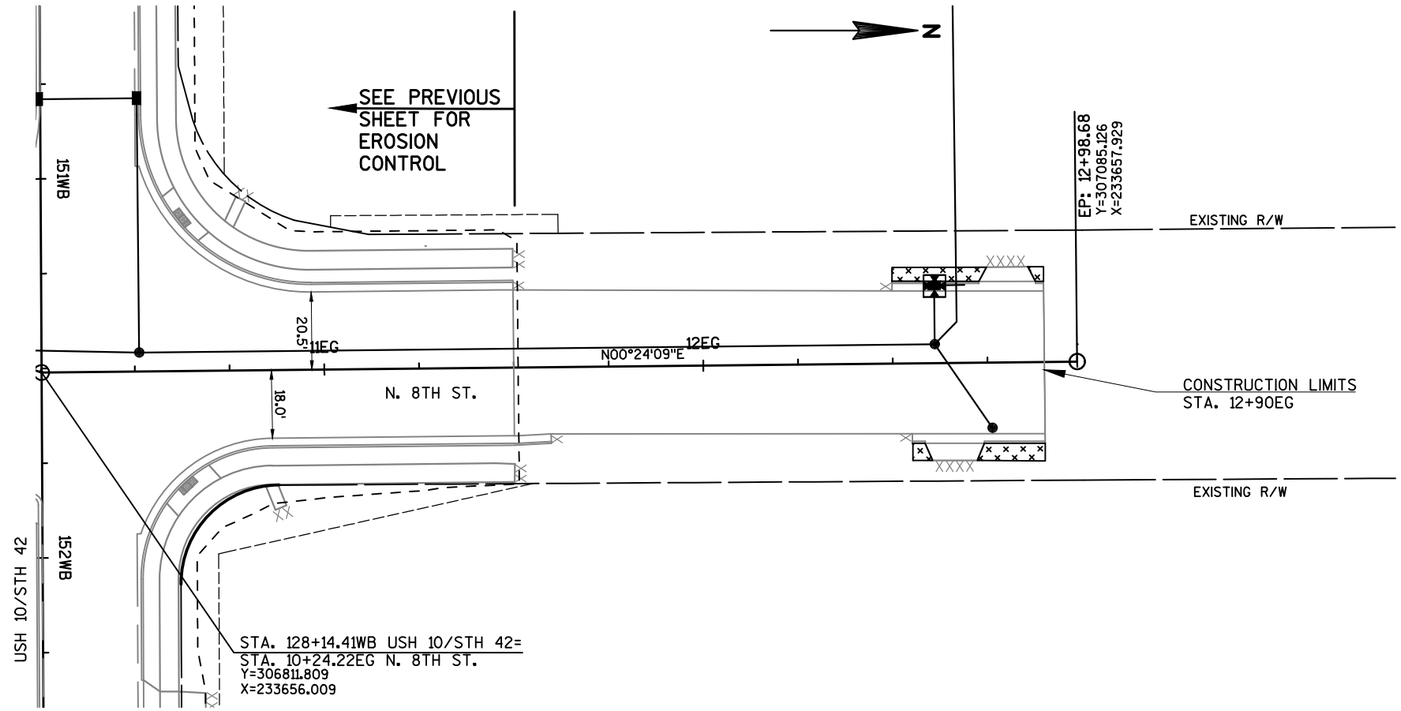
LEGEND

- EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- EROSION MAT CLASS 1, TYPE B URBAN
- SOD
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- ROCK BAGS



NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	EROSION CONTROL-9TH STREET AND 8TH STREET	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_022015_EC.DWG PLOT DATE : 8/14/2017 3:37 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1in:40 ft_XREF

WISDOT/CADDS SHEET 42

LEGEND

- ###### EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- EROSION MAT CLASS 1, TYPE B URBAN
- SOD
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- R ROCK BAGS

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N

EXISTING R/W
N. 16TH ST.
EXISTING R/W
EXISTING R/W
LINCOLN BLVD. (WEST)
LINCOLN BLVD. (EAST)
EXISTING R/W
MATCH LINE

SLOPE INTERCEPT
TLE LINE
EXISTING R/W
TLE LINE
EXISTING R/W

151WB 152WB 153WB 154WB 155WB 156WB 157WB

STH 42

151EB 152EB 153EB 154EB 155EB 156EB 157EB

S89°18'48"E

EXISTING R/W
TLE LINE
EXISTING R/W
TLE LINE

SLOPE INTERCEPT

BEGIN PROJECT 4570-12-71
STA. 152+25.00

EXISTING R/W
N. 16TH ST.
EXISTING R/W
EXISTING R/W
LINCOLN BLVD. (WEST)
LINCOLN BLVD. (EAST)
EXISTING R/W
MATCH LINE

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_022001 EC.DWG PLOT DATE : 8/14/2017 3:40 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 42

LEGEND

- EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- EROSION MAT CLASS 1, TYPE B URBAN
- SOD
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- ROCK BAGS

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N

2

2

EXISTING R/W

N. 6TH ST.

EXISTING R/W

SLOPE INTERCEPT

LINE

TLE LINE

EXISTING R/W

EXISTING R/W

LINE

157WB STH 42 158WB 159WB 160WB 161WB 162WB 163WB

157EB 158EB 159EB 160EB 161EB 162EB 163EB

S89°18'48"E

S89°19'48"E

EXISTING R/W

TLE LINE

EXISTING R/W

SLOPE INTERCEPT

MATCH

MATCH

EXISTING R/W

N. 6TH ST.

EXISTING R/W

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_022002 EC.DWG PLOT DATE : 8/14/2017 3:44 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

LEGEND

- ###### EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- EROSION MAT CLASS 1, TYPE B URBAN
- SOD
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- [R] ROCK BAGS

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N

2

2

EXISTING R/W

N. 5TH ST.

EXISTING R/W

LINE

EXISTING R/W

SLOPE INTERCEPT

LINE

163WB 164WB 165WB 166WB 167WB 168WB 169WB

STH 42

163EB 164EB 165EB 166EB 167EB 168EB 169EB

S89°19'48"E

SLOPE INTERCEPT

MATCH

EXISTING R/W

MATCH

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_022003 EC.DWG PLOT DATE : 8/14/2017 3:47 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

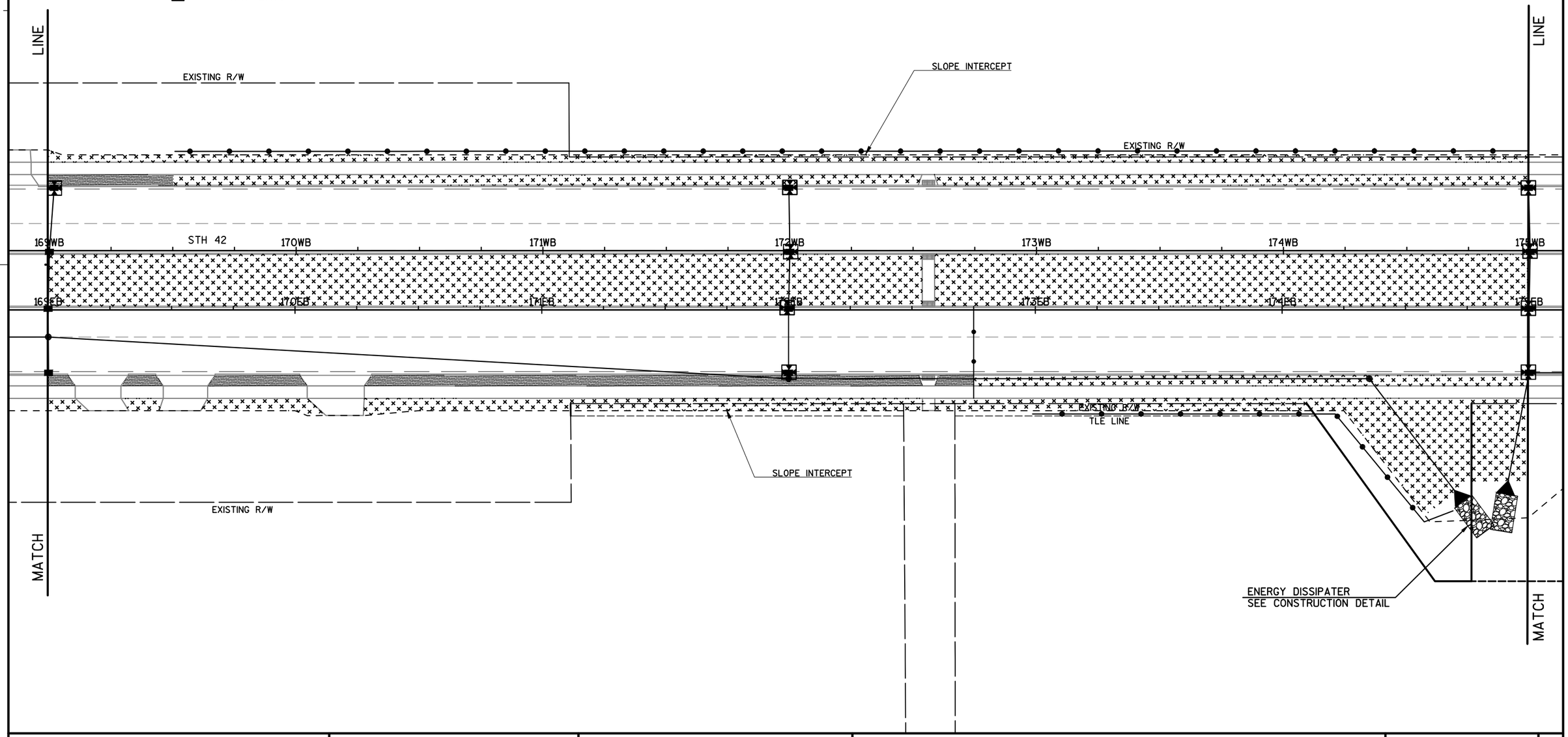
LEGEND

- EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- EROSION MAT CLASS 1, TYPE B URBAN
- SOD
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- ROCK BAGS

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_022004 EC.DWG PLOT DATE : 8/14/2017 3:51 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

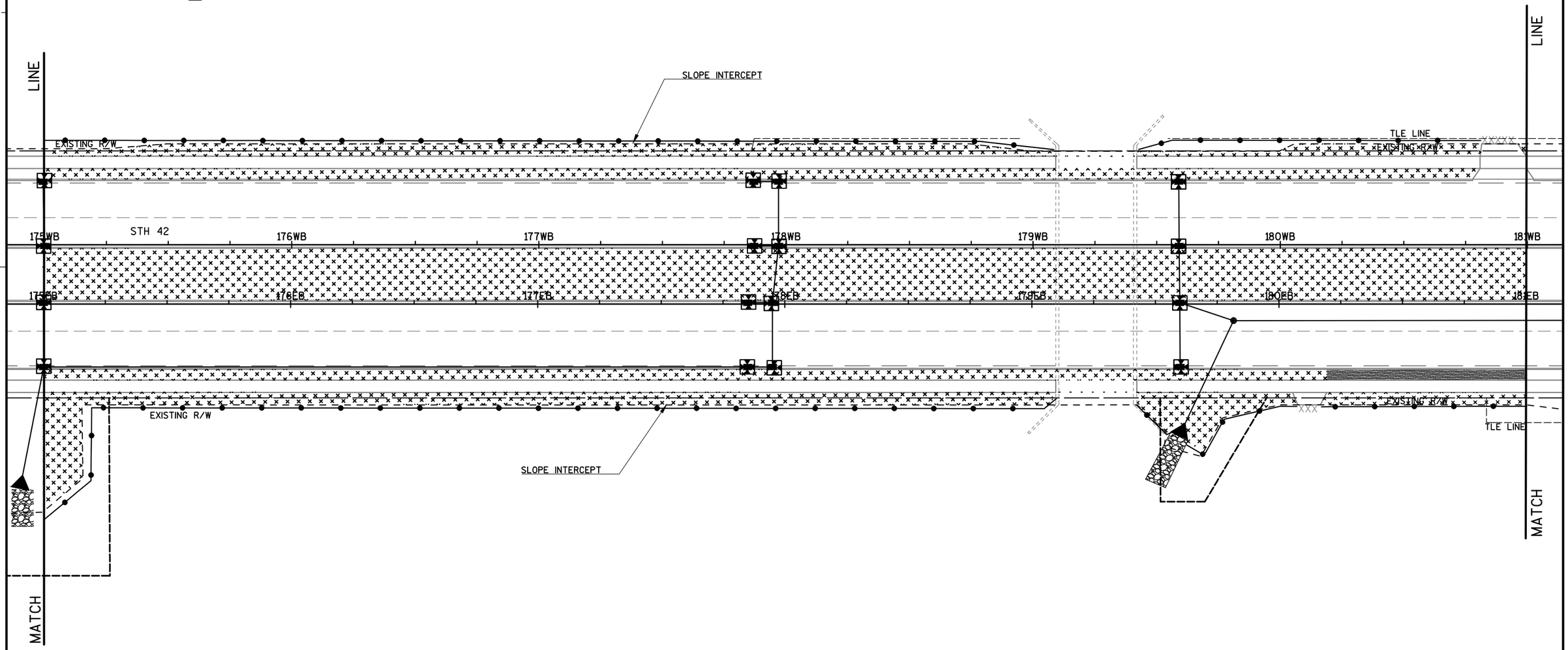
LEGEND

- ###### EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- EROSION MAT CLASS 1, TYPE B URBAN
- SOD
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- R ROCK BAGS

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_022005 EC.DWG PLOT DATE : 8/14/2017 3:54 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

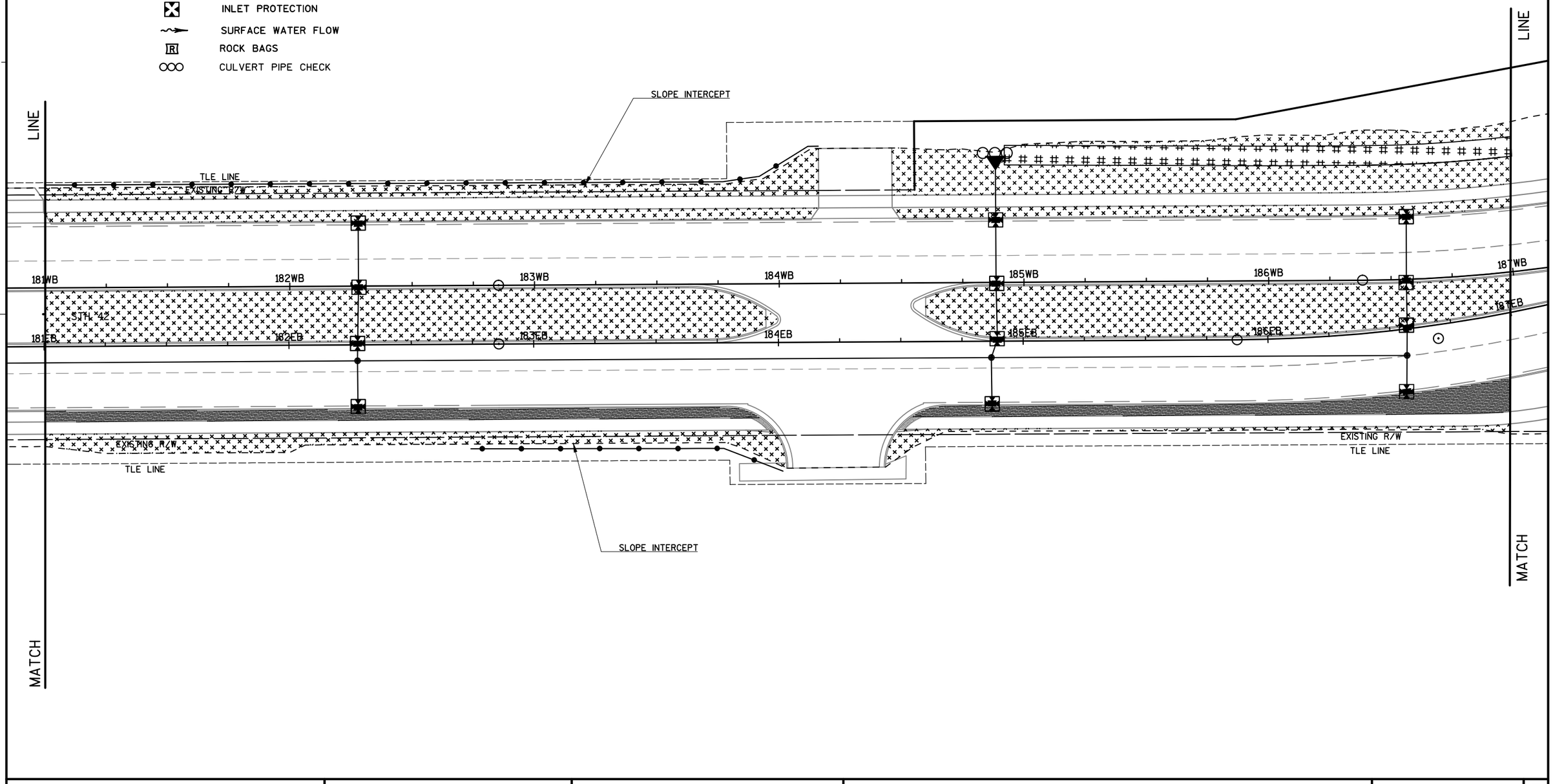
- EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- EROSION MAT CLASS 1, TYPE B URBAN
- SOD
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- ROCK BAGS
- CULVERT PIPE CHECK

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N

2



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_022006 EC.DWG PLOT DATE : 8/14/2017 3:58 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

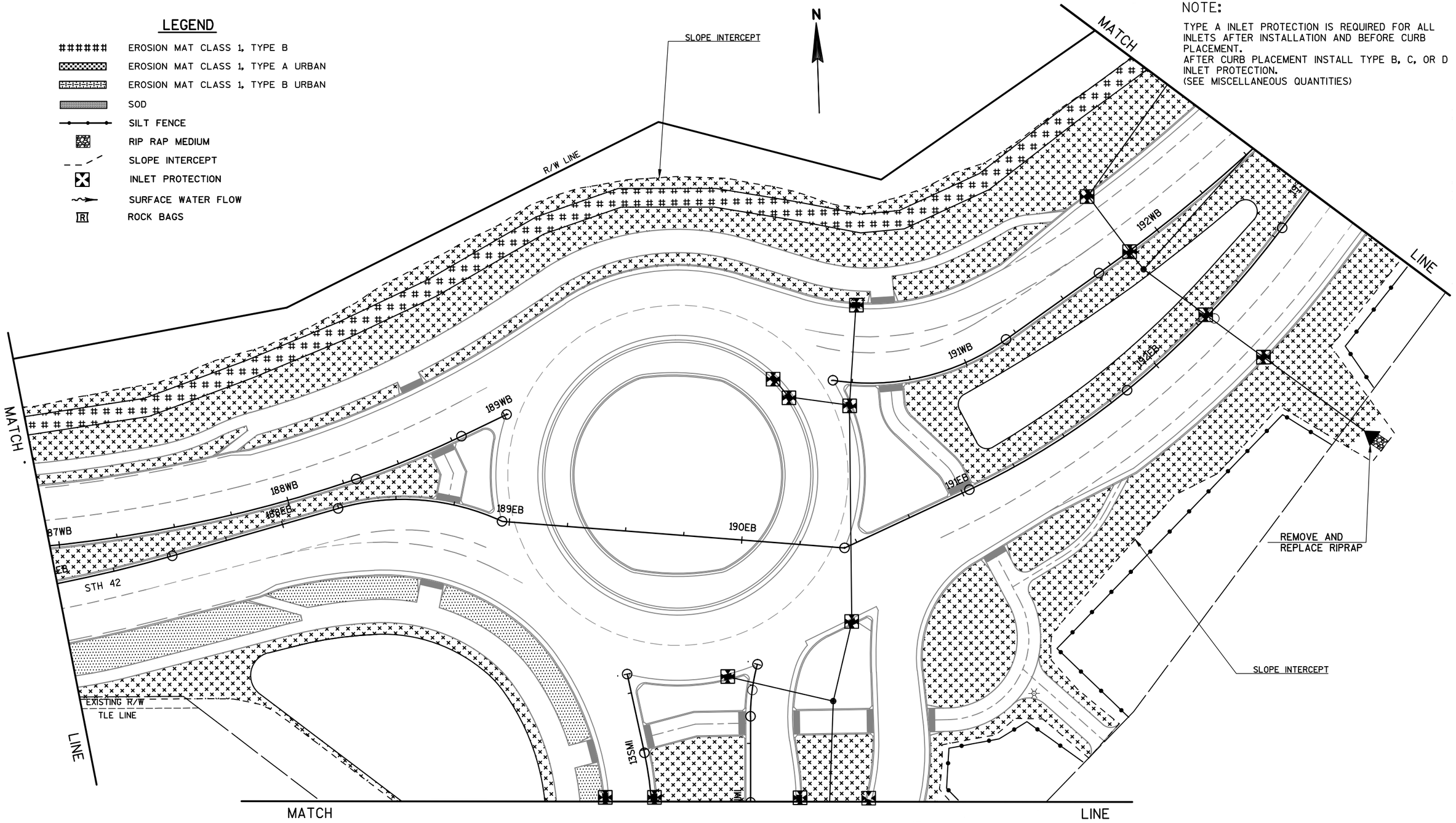
2

LEGEND

- ###### EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- EROSION MAT CLASS 1, TYPE B URBAN
- SOD
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- [R] ROCK BAGS

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET 122 E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_022007 EC.DWG PLOT DATE : 8/14/2017 4:01 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 4

LEGEND

- EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- EROSION MAT CLASS 1, TYPE B URBAN
- SOD
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- ROCK BAGS

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)

N

MATCH LINE

R/W LINE

TLE LINE

EXISTING R/W

193WB 194WB 195WB 196WB 197WB 198WB

194EB 195EB 196EB MEMORIAL DRIVE 197EB 198EB

END PROJECT 4570-12-71
STA. 196+94.12EB

EXISTING R/W

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_022008 EC.DWG PLOT DATE : 8/14/2017 4:05 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

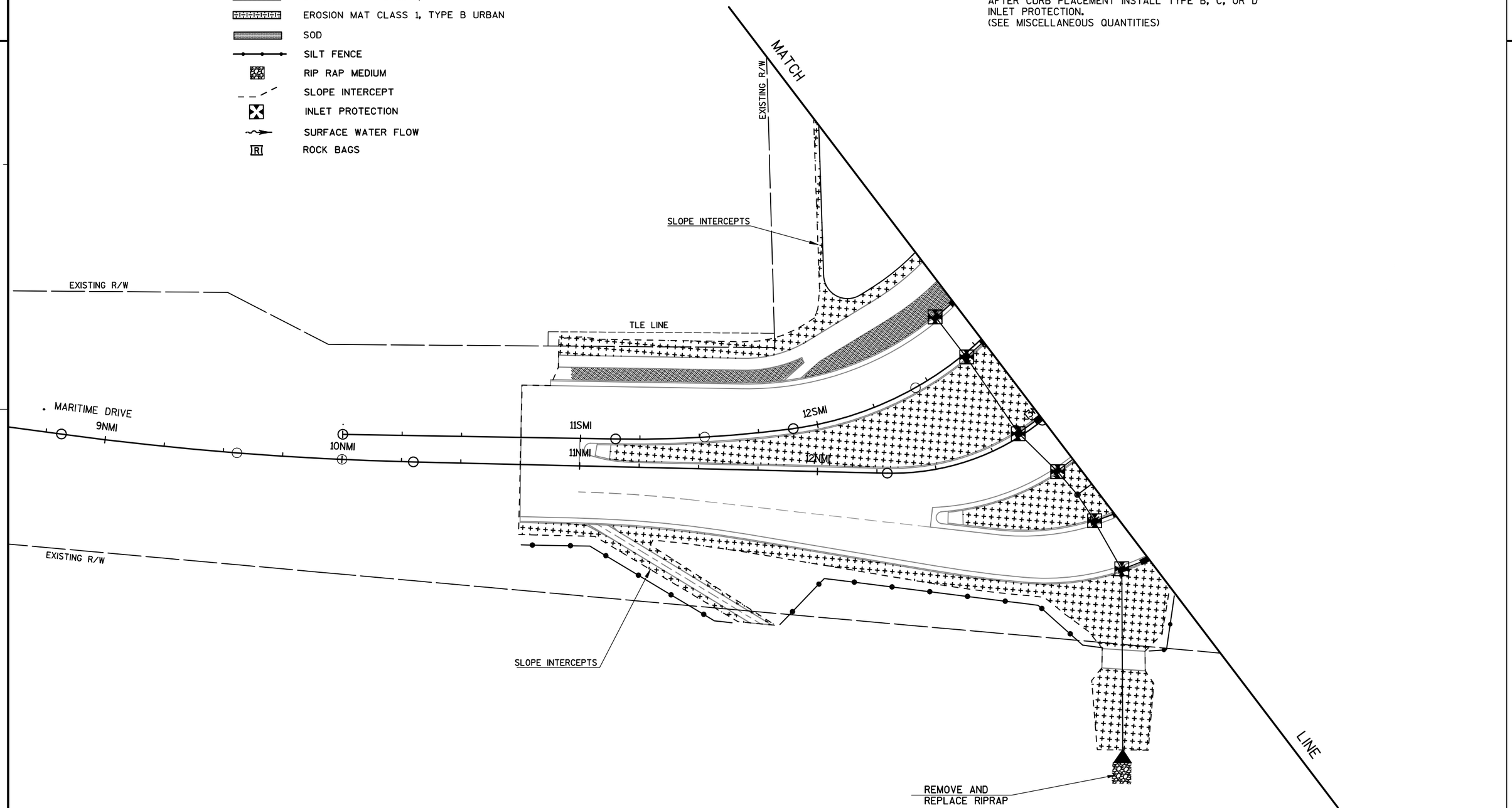
2

LEGEND

- ###### EROSION MAT CLASS 1, TYPE B
- EROSION MAT CLASS 1, TYPE A URBAN
- EROSION MAT CLASS 1, TYPE B URBAN
- SOD
- SILT FENCE
- RIP RAP MEDIUM
- SLOPE INTERCEPT
- INLET PROTECTION
- SURFACE WATER FLOW
- [R] ROCK BAGS

NOTE:

TYPE A INLET PROTECTION IS REQUIRED FOR ALL INLETS AFTER INSTALLATION AND BEFORE CURB PLACEMENT.
AFTER CURB PLACEMENT INSTALL TYPE B, C, OR D INLET PROTECTION.
(SEE MISCELLANEOUS QUANTITIES)



2

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	EROSION CONTROL PLAN	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_022009 EC.DWG PLOT DATE : 8/14/2017 4:08 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

2

ABANDONING SEWER
REMOVING STORM SEWER
REMOVING MANHOLES/INLETS

N

6" PVC (2 PARALLEL RUNS)

12" RCP

USH 10/WALDO BLVD WB

USH 10/WALDO BLVD EB

N 40TH ST

43+00 44+00 45+00 46+00 47+00 48+00 49+00 50+00

PROJECT NO:1500-47-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER REMOVAL PLAN	SHEET 125	E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\STORM SEWER\15003771-45701271_022501_SSRP.DWG
LAYOUT NAME - 022501_SSRP
PLOT DATE : 7/24/2018 3:04 PM
PLOT BY : ANDY BLOCK
PLOT NAME :
PLOT SCALE : 1" = 50'_XREF

WISDOT/CADDS SHEET 42

2

ABANDONING SEWER
REMOVING STORM SEWER
REMOVING MANHOLES/INLETS

N

FLEETWOOD DR

10" CMP
8" PVC
10" RCP

USH 10/WALDO BLVD WB

USH 10/WALDO BLVD EB

12" RCP
15" RCP

69+00
70+00
71+00
72+00
73+00
74+00
75+00
76+00

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER REMOVAL PLAN	SHEET 126	E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\STORM SEWER\15003771-45701271_022501_SSRP.DWG
LAYOUT NAME - 022502_SSRP
PLOT DATE : 7/24/2018 3:05 PM
PLOT BY : ANDY BLOCK
PLOT NAME :
PLOT SCALE : 1" = 50'_XREF

2

ABANDONING SEWER
REMOVING STORM SEWER
REMOVING MANHOLES/INLETS

N

USH 10/WALDO BLVD WB

USH 10/WALDO BLVD EB

12" RCP

76+00 77+00 78+00 79+00 80+00 81+00 82+00 83+00

SAN

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER REMOVAL PLAN	SHEET 127	E

2

2

ABANDONING SEWER
REMOVING STORM SEWER
REMOVING MANHOLES/INLETS

N

USH 10/WALDO BLVD WB

USH 10/WALDO BLVD EB

12" RCP

83+00 84+00 85+00 86+00 87+00 88+00 89+00 90+00

SAN TRANS MH W E SS FLAG

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER REMOVAL PLAN	SHEET 128	E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\STORM SEWER\15003771-45701271_022501_SSRP.DWG
LAYOUT NAME - 022504_SSRP

PLOT DATE : 7/24/2018 3:05 PM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1" = 50'_XREF

WISDOT/CADDS SHEET 42

2

2

ABANDONING SEWER
REMOVING STORM SEWER
REMOVING MANHOLES/INLETS

N

SEALING PIPES REQD AT CONSTRUCTION LIMITS
REMOVE 72" CMP TO EXISTING MANHOLE
15" PVC
12" PVC
72" CMP
12" RCP
15" PVC
18" RCP
15" CMP
12" CMP
15" RCP
USH 10/WALDO BLVD WB
USH 10/WALDO BLVD EB
N 23RD ST
90+00
91+00
92+00
93+00
94+00
95+00
96+00
97+00

PROJECT NO:1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER REMOVAL PLAN	SHEET 129	E

2

2

ABANDONING SEWER
REMOVING STORM SEWER
REMOVING MANHOLES/INLETS

N

USH 10/WALDO BLVD WB

USH 10/WALDO BLVD EB

N 21ST ST

MENCHL DR

12" RCP
18" RCP
12" CMP
15" RCP
WALL

98+00 99+00 100+00 101+00 102+00 103+00 104+00 105+00

PROJECT NO:1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER REMOVAL PLAN	SHEET 130	E

2

ABANDONING SEWER
REMOVING STORM SEWER
REMOVING MANHOLES/INLETS

N

PARK ROW BLVD

PARK ROW BLVD

ELM ST

N 20TH ST

USH 10/WALDO BLVD WB

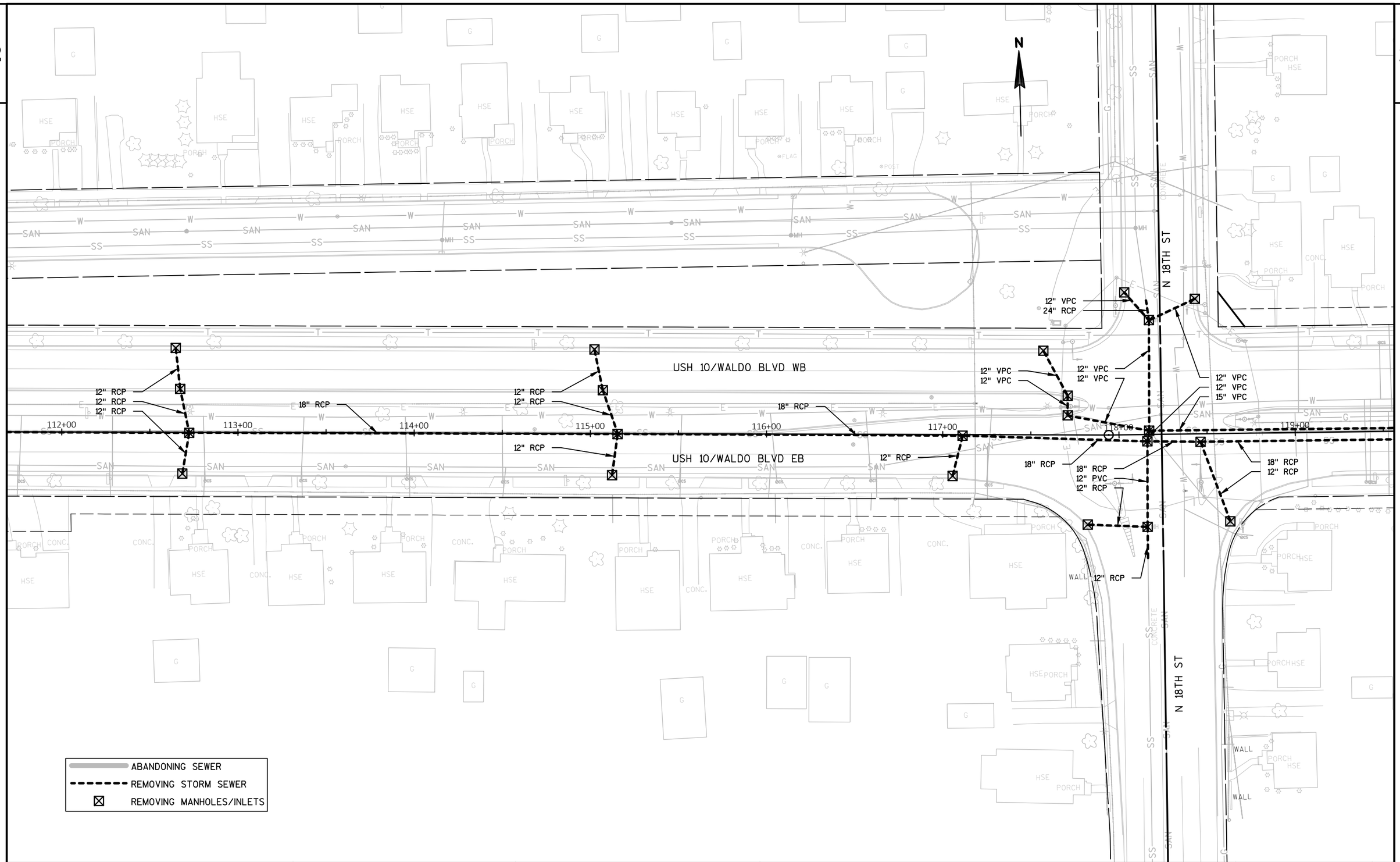
USH 10/WALDO BLVD EB

12" RCP
12" RCP
12" RCP
10" RCP
10" RCP
12" RCP
12" RCP
12" RCP
12" RCP
10" RCP
15" RCP
12" RCP
15" RCP
12" RCP
12" RCP
12" RCP
12" RCP
12" RCP
15" RCP
12" RCP
15" RCP

103+00 104+00 107+00 108+00 109+00 110+00 111+00 112+00

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER REMOVAL PLAN	SHEET 131	E

2



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER REMOVAL PLAN	SHEET 132	E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\STORM SEWER\15003771-45701271_022501_SSRP.DWG
LAYOUT NAME - 022508_SSRP
PLOT DATE : 7/24/2018 3:06 PM
PLOT BY : ANDY BLOCK
PLOT NAME :
PLOT SCALE : 1" = 50'_XREF
WISDOT/CADDS SHEET 42

2

N

N 17TH ST

N 16TH ST

USH 10/WALDO BLVD WB

USH 10/WALDO BLVD EB

12" RCP

12" VPC
12" VPC

12" RCP
15" VPC

12" RCP
18" RCP

18" RCP

18" RCP
18" RCP
12" RCP
12" RCP

12" VPC
12" VPC

12" RCP
12" RCP
12" RCP
18" VPC

12" VPC
12" RCP
12" RCP

21" RCP
12" RCP
12" RCP

21" RCP

21" RCP

6" PVC

19+00 120+00 121+00 122+00 123+00 124+00 125+00 126+00

ABANDONING SEWER

REMOVING STORM SEWER

REMOVING MANHOLES/INLETS

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER REMOVAL PLAN	SHEET 133	E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\STORM SEWER\15003771-45701271_022501_SSRP.DWG
LAYOUT NAME - 022509_SSRP
PLOT DATE : 7/24/2018 3:06 PM
PLOT BY : ANDY BLOCK
PLOT NAME :
PLOT SCALE : 1" = 50'_XREF
WISDOT/CADDS SHEET 42

2

ABANDONING SEWER
REMOVING STORM SEWER
REMOVING MANHOLES/INLETS

N

N 15TH ST

N 14TH ST

N 13TH ST

USH 10/WALDO BLVD WB

USH 10/WALDO BLVD EB

12" RCP
21" RCP
24" RCP
6" PVC

127+00 128+00 129+00 130+00 131+00 132+00 133+00 134+00

PROJECT NO:1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER REMOVAL PLAN	SHEET 134	E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\STORM SEWER\15003771-45701271_022501_SSRP.DWG
LAYOUT NAME - 022510_SSRP
PLOT DATE : 7/24/2018 3:06 PM
PLOT BY : ANDY BLOCK
PLOT NAME :
PLOT SCALE : 1" = 50'_XREF

2

ABANDONING SEWER
REMOVING STORM SEWER
REMOVING MANHOLES/INLETS

N

MENASHA AVE

N 12TH ST

N 13TH ST

USH 10/WALDO BLVD WB

USH 10/WALDO BLVD EB

42" RCP
12" RCP
12" RCP

42" RCP
15" RCP

24" RCP
12" RCP
12" RCP

12" RCP
12" RCP

24" RCP
24" RCP
42" RCP

42" RCP

12" RCP
12" RCP
12" RCP

12" RCP
12" RCP

134+00
135+00
136+00
137+00
138+00
139+00
140+00
141+00

21" RCP
21" RCP
12" RCP

42" RCP
42" RCP
18" RCP

42" RCP
12" RCP

12" RCP
18" RCP

12" RCP
12" RCP

12" RCP
12" RCP

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER REMOVAL PLAN	SHEET 135	E

2

ABANDONING SEWER
REMOVING STORM SEWER
REMOVING MANHOLES/INLETS

N

N 11TH ST

N 10TH ST

N 9TH ST

USH 10/WALDO BLVD WB

USH 10/WALDO BLVD EB

SEALING PIPES REQD AT STORM REMOVAL LIMITS (WITHIN TLE)

SEALING PIPES REQD AT STORM REMOVAL LIMITS (WITHIN TLE)

12" VCP
12" VCP
12" RCP
12" VCP
12" RCP
18" RCP
12" RCP
48" RCP
48" RCP
48" RCP
48" RCP
36" RCP
12" RCP
12" RCP
12" RCP
12" RCP
36" RCP
15" RCP
15" RCP
12" RCP
12" RCP
12" RCP
12" RCP
8" PVC

141+00 142+00 143+00 144+00 145+00 146+00 147+00 148+00

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER REMOVAL PLAN	SHEET 136	E

2

ABANDONING SEWER
REMOVING STORM SEWER
REMOVING MANHOLES/INLETS

12" VCP
12" VCP

54" RCP

ABANDONING MANHOLES - 1 EA REQD

54" RCP

ABANDONING SEWER (54" RCP) LIMIT

N

NOTE:
ABANDONING SEWER (54" RCP) REQD FROM PROPOSED MANHOLE MH-122.2 TO APPROXIMATELY STA. 12'SL'+52, 85' LT (IMMEDIATELY WEST OF PRIVATE LATERAL CONNECTION). 12-INCH PVC SHALL BE PLACED IN 54" RCP FROM STA. 12'EG'+67, 151' LT TO MH-126.2 PRIOR TO ABANDONING SEWER - SEE STORM SEWER PLANS FOR DETAILS.

15" VCP

REMOVE TO CONSTRUCTION LIMITS

15" VCP

N 9TH ST

N 8TH ST

LINCOLN BLVD

12" RCP
12" RCP
15" RCP

USH 10/WALDO BLVD WB

12" RCP
12" RCP
12" RCP
12" RCP

15" RCP

STH 42/WALDO BLVD WB

12" RCP
12" RCP
12" RCP
12" RCP

15" RCP

12" RCP
12" RCP
12" RCP
12" RCP

8+00 149+00 150+00 151+00 152+00 153+00 154+00 155+00

12" VCP
12" VCP
12" VCP

USH 10/WALDO BLVD EB

12" VCP
12" VCP
12" RCP
12" RCP

STH 42/WALDO BLVD EB

12" PVC
12" PVC

12" RCP

N 9TH ST

N 8TH ST

LINCOLN BLVD

PROJECT NO: 1500-37-71/4570-12-71	HWY: USH 10/STH 42	COUNTY: MANITOWOC	STORM SEWER REMOVAL PLAN	SHEET 137	E

ABANDONING SEWER
REMOVING STORM SEWER
REMOVING MANHOLES/INLETS

N

2

2

LINCOLN BLVD

N 6TH ST

STH 42/WALDO BLVD WB

STH 42/WALDO BLVD EB

12" RCP
12" RCP

60" RCP
15" RCP

ABANDONING MANHOLES - 1 EA REQD

12" RCP
12" RCP
15" RCP
12" RCP

60" RCP

ABANDONING MANHOLES - 1 EA REQD
60" RCP
ABANDONING MANHOLES - 1 EA REQD

60" RCP

15" RCP
12" RCP
12" RCP
12" RCP

12" RCP
12" RCP
12" RCP
12" RCP
12" RCP

156+00 157+00 158+00 159+00 160+00 161+00 162+00 163+0

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	STORM SEWER REMOVAL PLAN	SHEET 138	E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\STORM SEWER\15003771-4570127l_022501_SSRP.DWG
LAYOUT NAME - 022514_SSRP

PLOT DATE : 7/24/2018 3:06 PM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1" = 50'_XREF

WISDOT/CADDS SHEET 42

2

ABANDONING SEWER
REMOVING STORM SEWER
REMOVING MANHOLES/INLETS

N

N 5TH ST

STH 42/WALDO BLVD WB

STH 42/WALDO BLVD EB

12" RCP
12" RCP
15" PVC (25') &
15" RCP (40')
ABANDONING MANHOLES - 1 EA REQD
60" RCP

163+00
164+00
165+00
166+00
167+00
168+00
169+00
170+00

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	STORM SEWER REMOVAL PLAN	SHEET 139	E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\STORM SEWER\15003771-45701271_022501_SSRP.DWG
LAYOUT NAME - 022515_SSRP
PLOT DATE : 7/24/2018 3:07 PM
PLOT BY : ANDY BLOCK
PLOT NAME :
PLOT SCALE : 1" = 50'_XREF
WISDOT/CADDS SHEET 42

2

2

ABANDONING SEWER
REMOVING STORM SEWER
REMOVING MANHOLES/INLETS

N

STH 42/WALDO BLVD WB

STH 42/WALDO BLVD EB

12" RCP
12" RCP
ABANDONING MANHOLES - 1 EA REQD
60" RCP
12" RCP
12" RCP

12" RCP
12" RCP
ABANDONING MANHOLES - 1 EA REQD
60" CMP
12" RCP
12" RCP

170+00 171+00 172+00 173+00 174+00 175+00 176+00 177+00

W W W

2

2

ABANDONING SEWER
REMOVING STORM SEWER
REMOVING MANHOLES/INLETS

N

STH 42/WALDO BLVD WB

STH 42/WALDO BLVD EB

12" RCP
12" RCP
ABANDONING MANHOLES - 1 EA REQD
12" RCP
12" RCP
60" CMP
18" RCP
18" RCP
12" RCP
12" RCP
12" RCP
12" RCP
15" RCP

177+00
178+00
179+00
180+00
181+00
182+00
183+00
184+00

CONC.
ASPHALT
BLDG
SAN
MH

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	STORM SEWER REMOVAL PLAN	SHEET 141	E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\STORM SEWER\15003771-45701271_022501_SSRP.DWG
LAYOUT NAME - 022517_SSRP
PLOT DATE : 7/24/2018 3:07 PM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1" = 50'_XREF

WISDOT/CADDS SHEET 42

2

ABANDONING SEWER
REMOVING STORM SEWER
REMOVING MANHOLES/INLETS

N

STH 42/WALDO BLVD WB

STH 42/WALDO BLVD EB

STH 42/MEMORIAL DR

MARITIME DR

185+00
186+00
187+00
188+00
189+00
190+00
191+00
192+00

12" RCP
12" RCP
12" RCP
12" RCP
12" RCP

12" PVC
12" PVC
12" PVC
12" PVC
12" PVC
12" PVC
12" PVC
12" PVC
12" PVC
12" PVC
12" PVC

15" PVC

24" CMP
24" CMP

SAN
W
E
G
WV
MH
ASPHALT
BLDG

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	STORM SEWER REMOVAL PLAN	SHEET 142	E

2

ABANDONING SEWER
REMOVING STORM SEWER
REMOVING MANHOLES/INLETS

N

SAN SAN SAN SAN SAN SAN SAN SAN

8" PVC
12" PVC
12" PVC
12" PVC

15" PVC

STH 42/MEMORIAL DR

192+00 193+00 194+00 195+00 196+00 197+00 198+00 199+0

STH 42

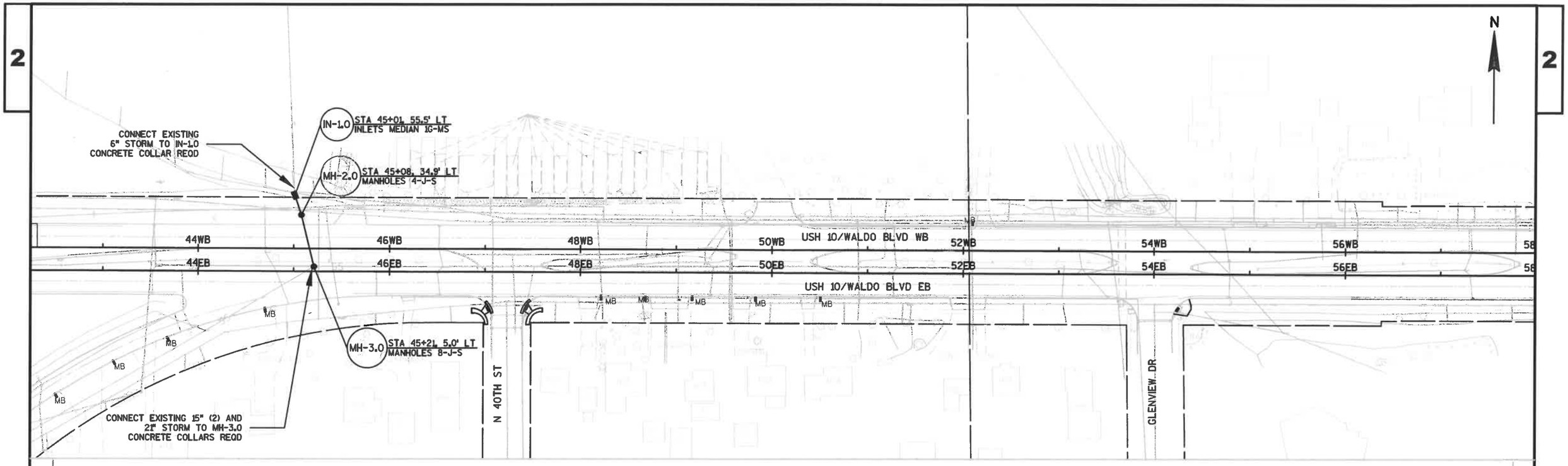
W W W W W W W W W W W W

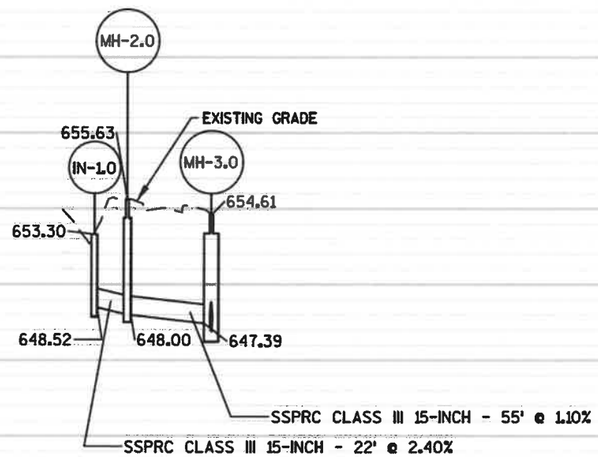
ASPHALT

ROCK ROCK

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	STORM SEWER REMOVAL PLAN	SHEET 143	E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\STORM SEWER\15003771-45701271_022501_SSRP.DWG
LAYOUT NAME - 022519_SSRP
PLOT DATE : 7/24/2018 3:07 PM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1" = 50'_XREF





WISCONSIN
ANDREW W. BLOCK
E-41224-6
APPLETON
WI.
PROFESSIONAL ENGINEER

7/20/2018

STORM SEWER PLANS DESIGNED BY
JT ENGINEERING, INC.

PROJECT NO: 1500-47-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 144 E

EXISTING RW

STA 70+80, 25.2' LT
CATCH BASINS 2x3-H-S
CB-20.2

PIPE UNDERDRAIN
6-INCH REQD
SEE CONSTRUCTION DETAIL

CB-20.1 STA 70+90, 25.4' LT
CATCH BASINS 2x3-H

STA 10+76, 14.0' LT
MANHOLES 5-J-S
MH-24.3

CB-20.3 STA 70+90, 0.5' RT
CATCH BASINS 2x3-H

STA 10+64, 32.8' LT
CATCH BASINS 2x3-H-S
CB-24.2

STA 70+80, 0.5' RT
CATCH BASINS 2x3-H-S
CB-20.4

PIPE UNDERDRAIN
6-INCH REQD
SEE CONSTRUCTION DETAIL

CB-20.5 STA 70+90, 12.5' RT
CATCH BASINS 2x3-H

STA 70+03, 6.0' LT
MANHOLES 4-J-S
MH-18.0

CB-20.6 STA 70+80, 12.7' RT
CATCH BASINS 2x3-H-S

STA 70+80, 11.0' RT
MANHOLES 5-J-S
MH-20.0

PIPE UNDERDRAIN
6-INCH REQD
SEE CONSTRUCTION DETAIL

CB-20.7 STA 70+90, 25.4' RT
CATCH BASINS 2x3-H

STA 72+25, 11.0' RT
MANHOLES 4-J-S
MH-24.0

STA 70+80, 25.3' RT
CATCH BASINS 2x3-H-S
CB-22.0

OF-1B STA 70+65, 72.0' RT
APRON ENDWALLS FOR CPRC 24-INCH

EXISTING RW

69WB 70WB 71WB 72WB

69EB 70EB 71EB 72EB

FLEETWOOD DR

10FW

9FW

USH 10/WALDO BLVD WB

USH 10/WALDO BLVD EB

CB-24.1 STA 10+64, 25.8' RT
CATCH BASINS 2x3-H-S

CB-26.1 STA 73+16, 25.5' LT
CATCH BASINS 2x3-H

CB-26.2 STA 73+17, 0.5' RT
CATCH BASINS 2x3-H

CB-26.3 STA 73+17, 0.5' LT
CATCH BASINS 2x3-H

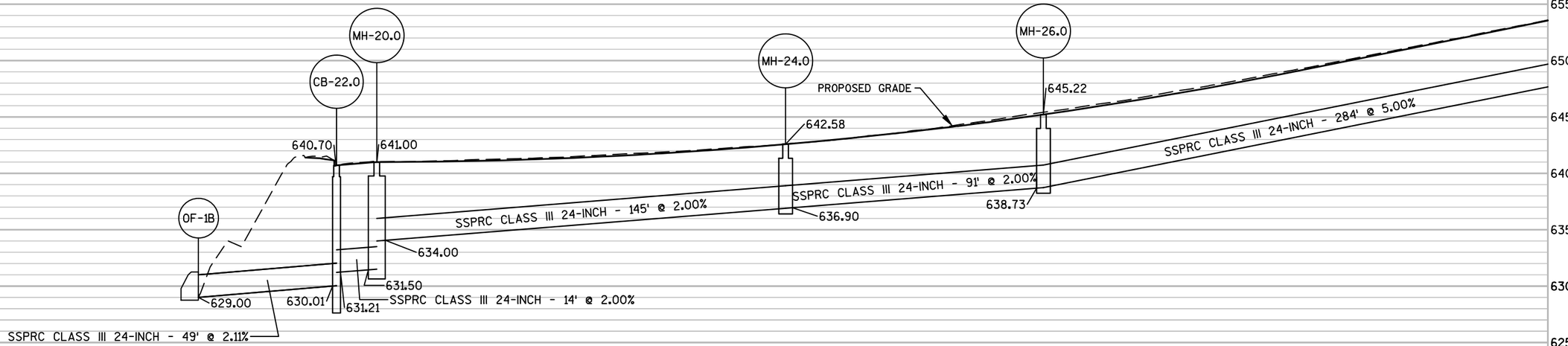
73WB 74WB 75WB

73EB 74EB 75EB

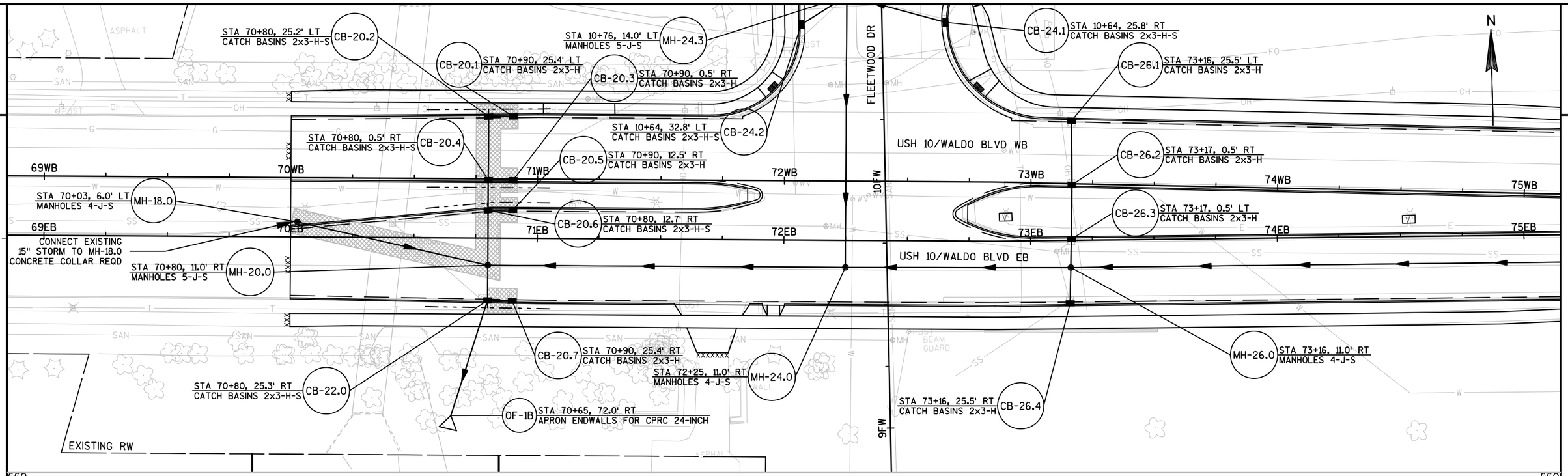
MH-26.0 STA 73+16, 11.0' RT
MANHOLES 4-J-S

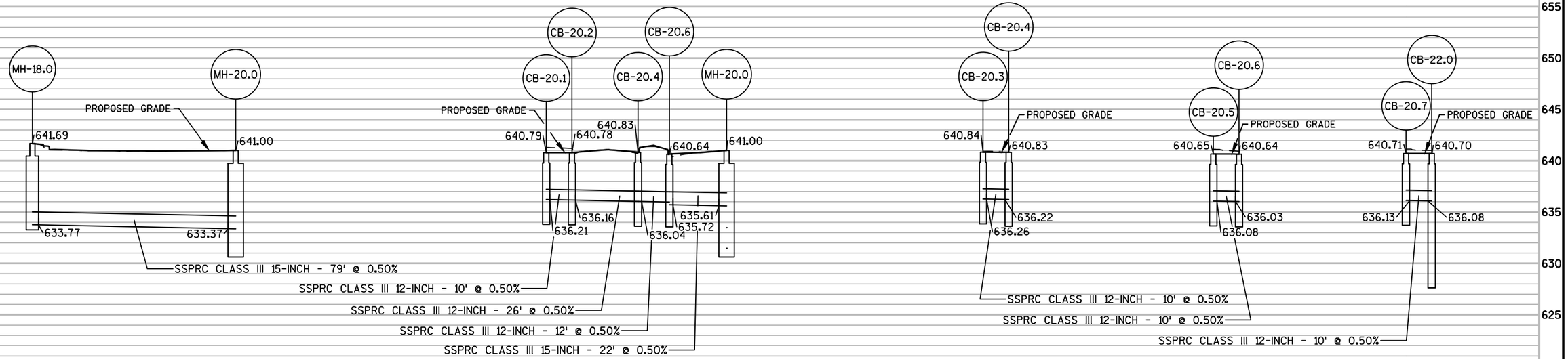
STA 73+16, 25.5' RT
CATCH BASINS 2x3-H
CB-26.4

N

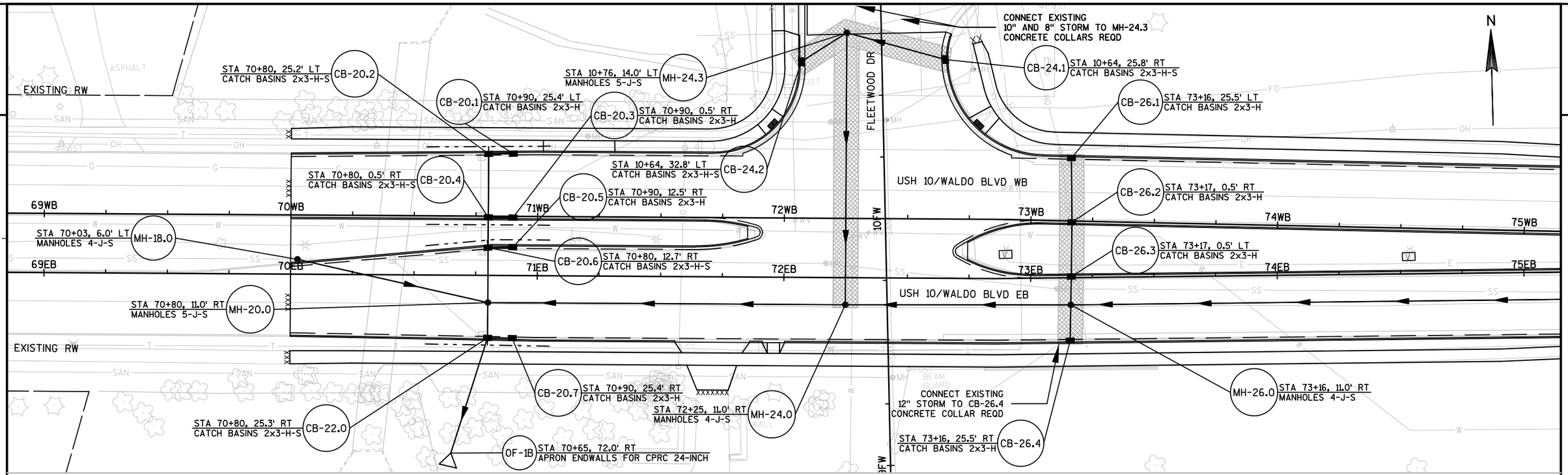


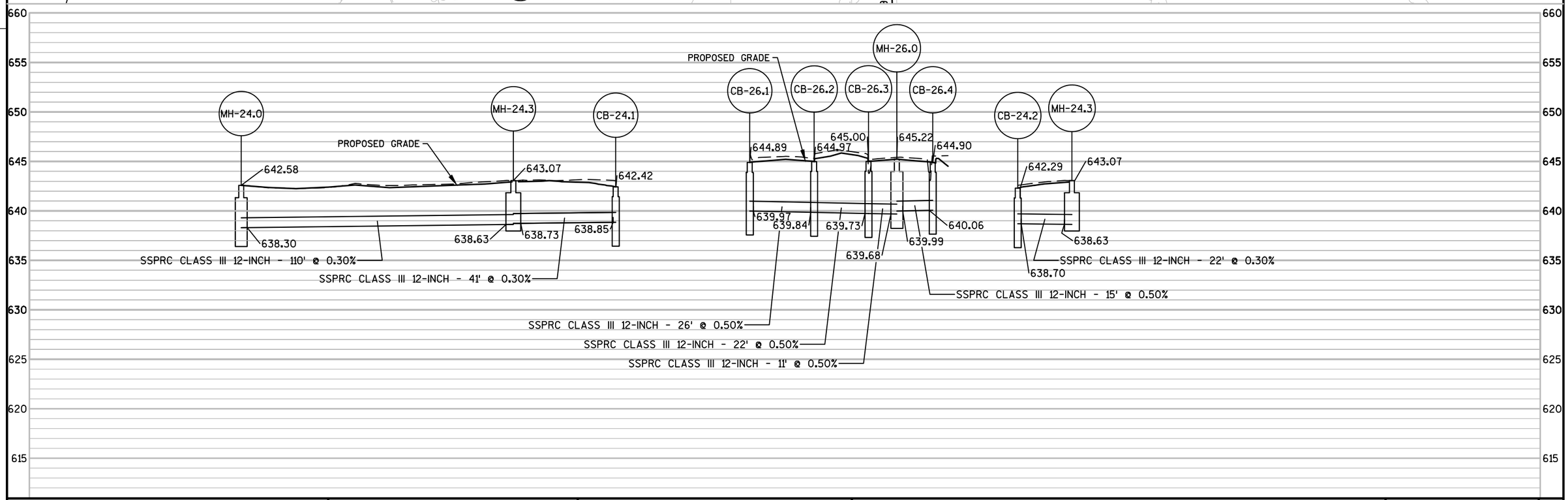
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 145	E



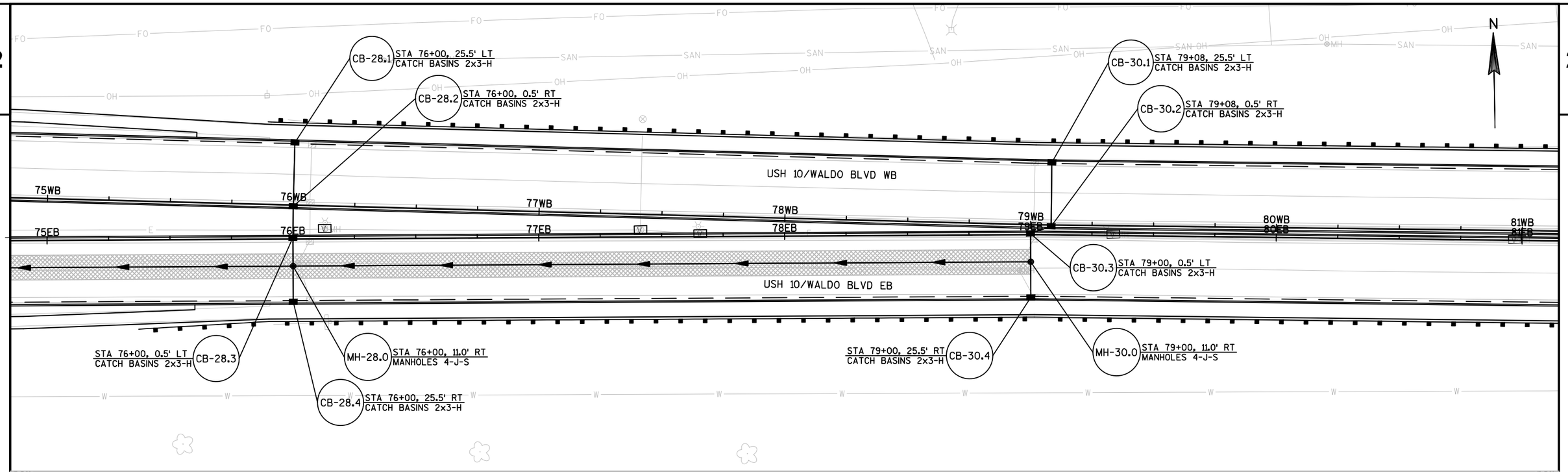


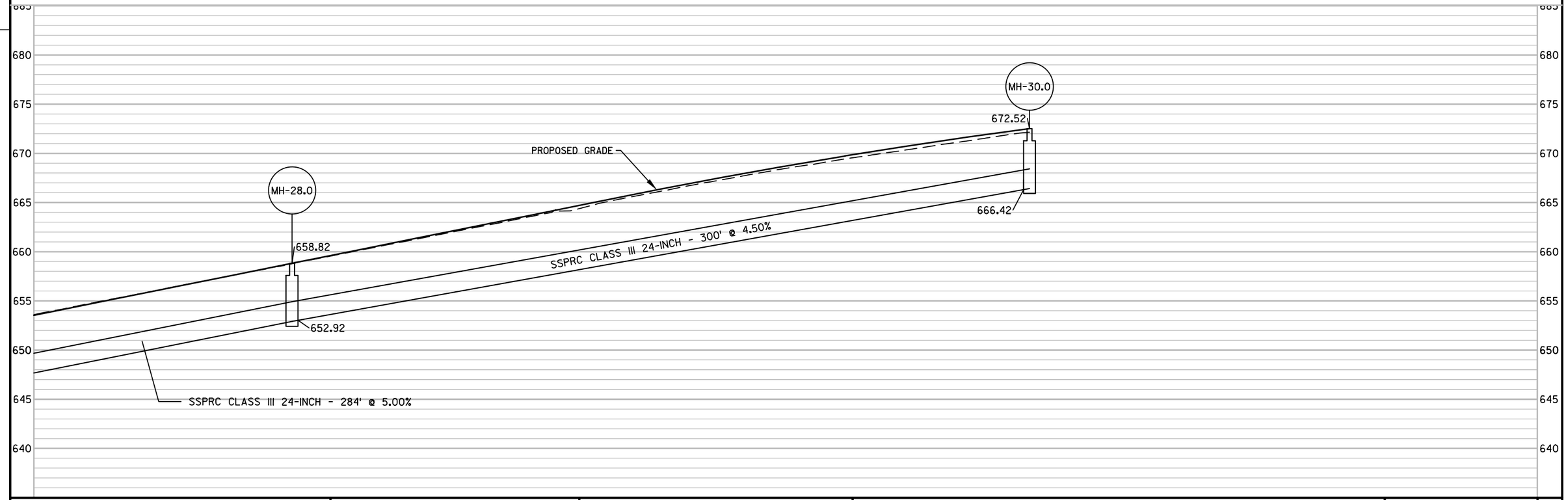
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 146	E



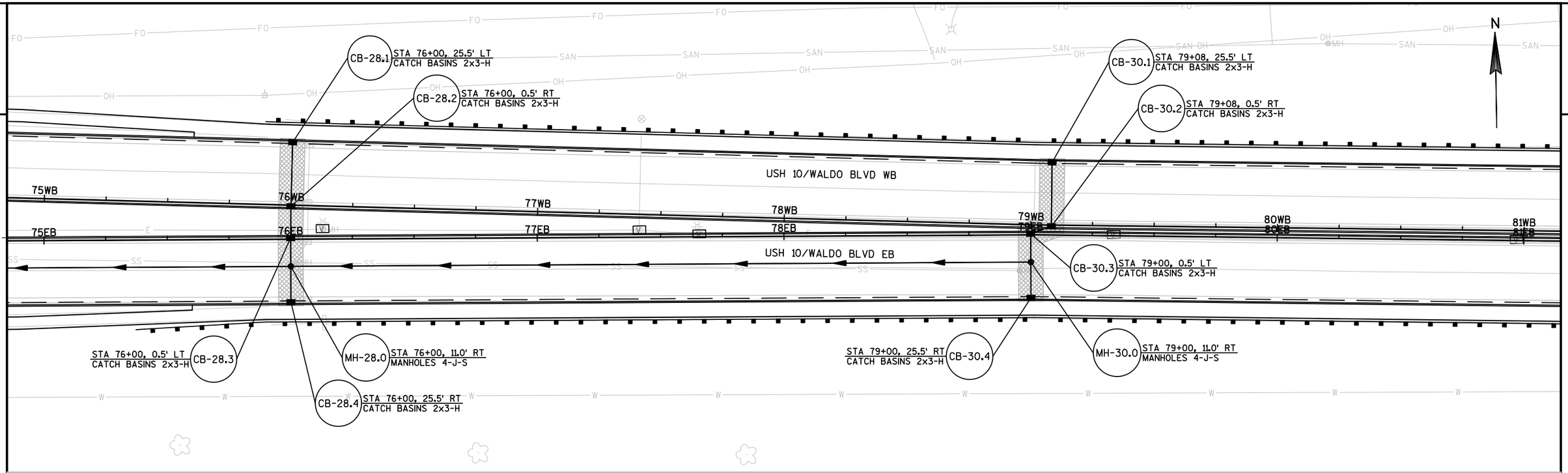


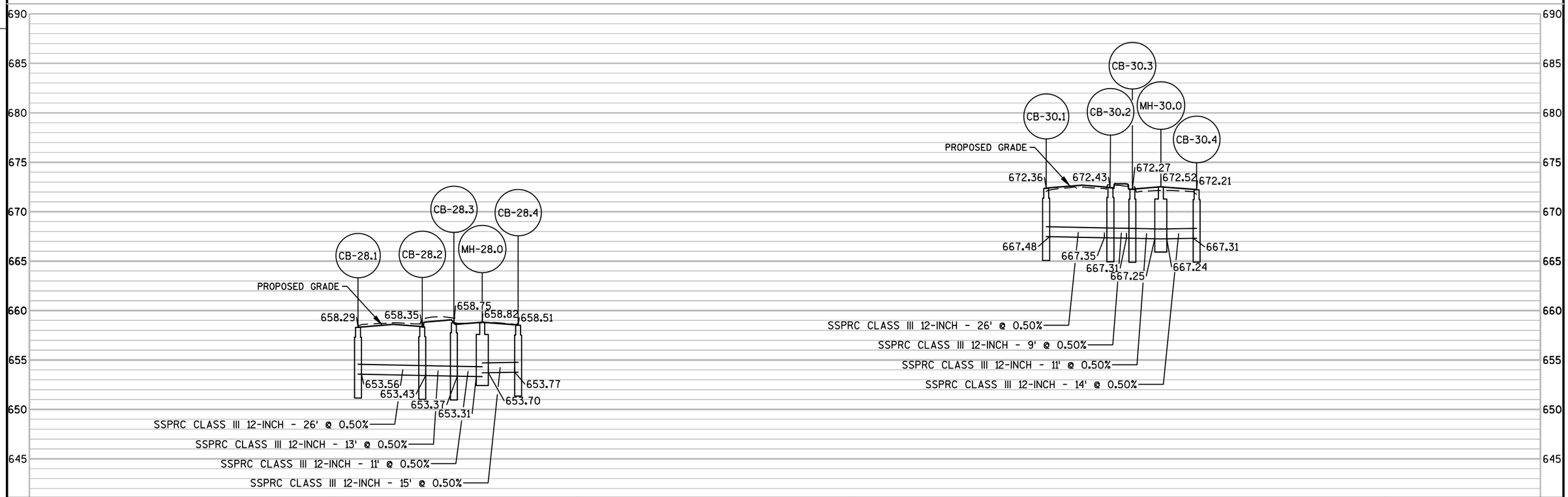
PROJECT NO:1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 147	E



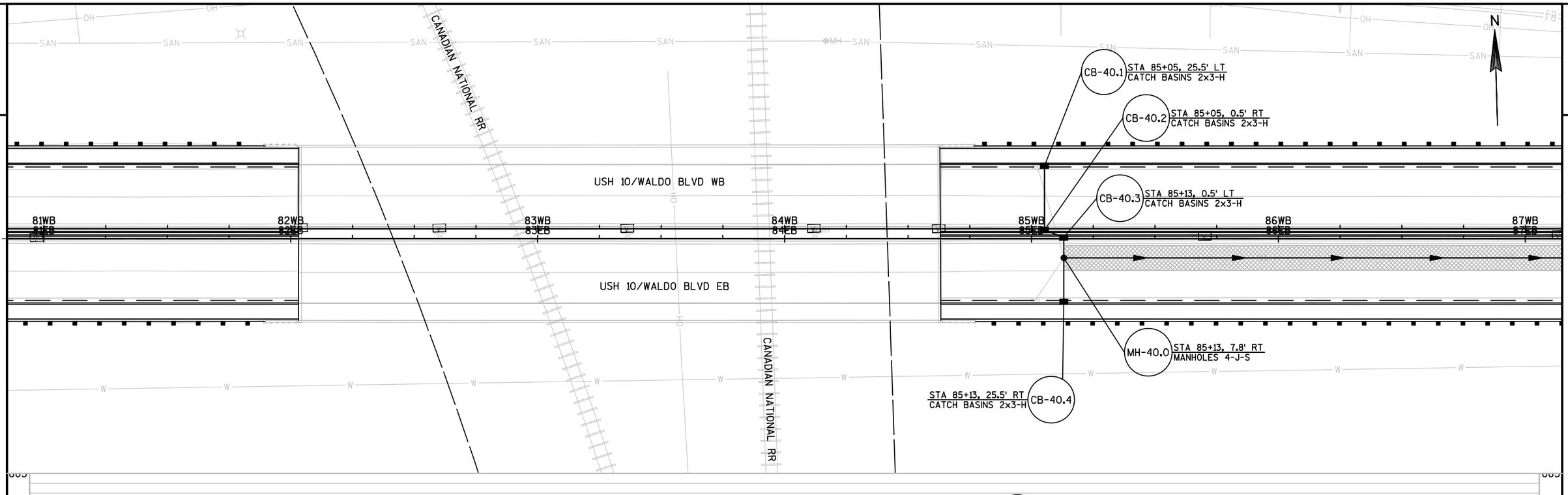


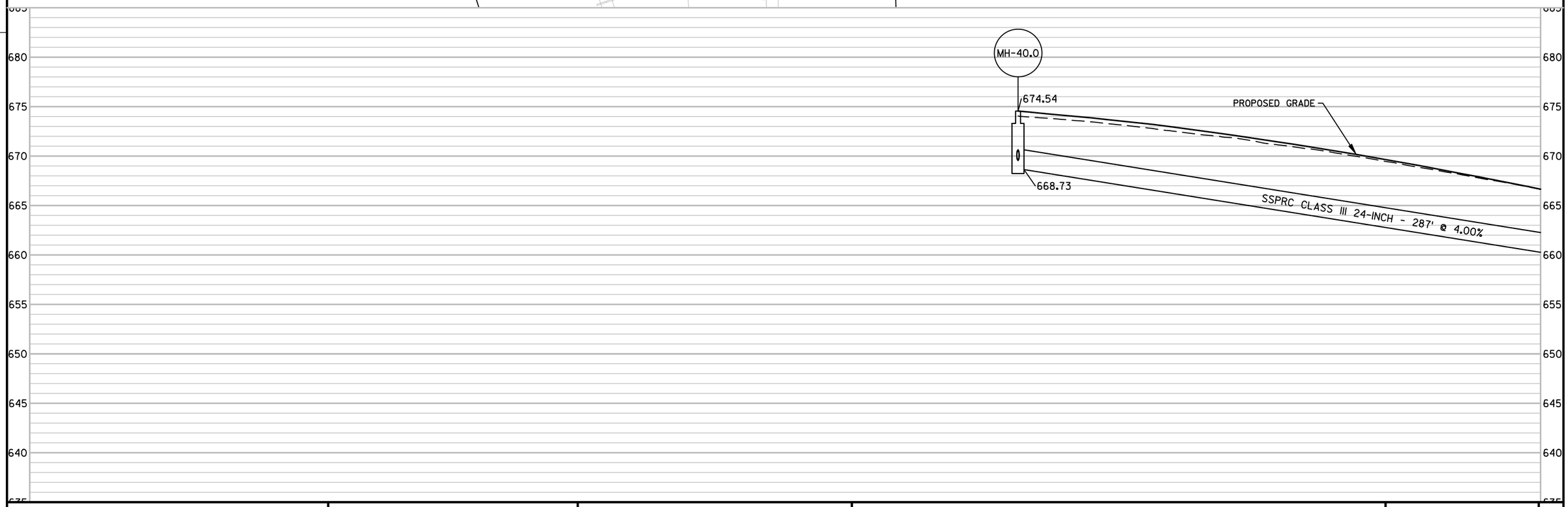
PROJECT NO:1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 148	E

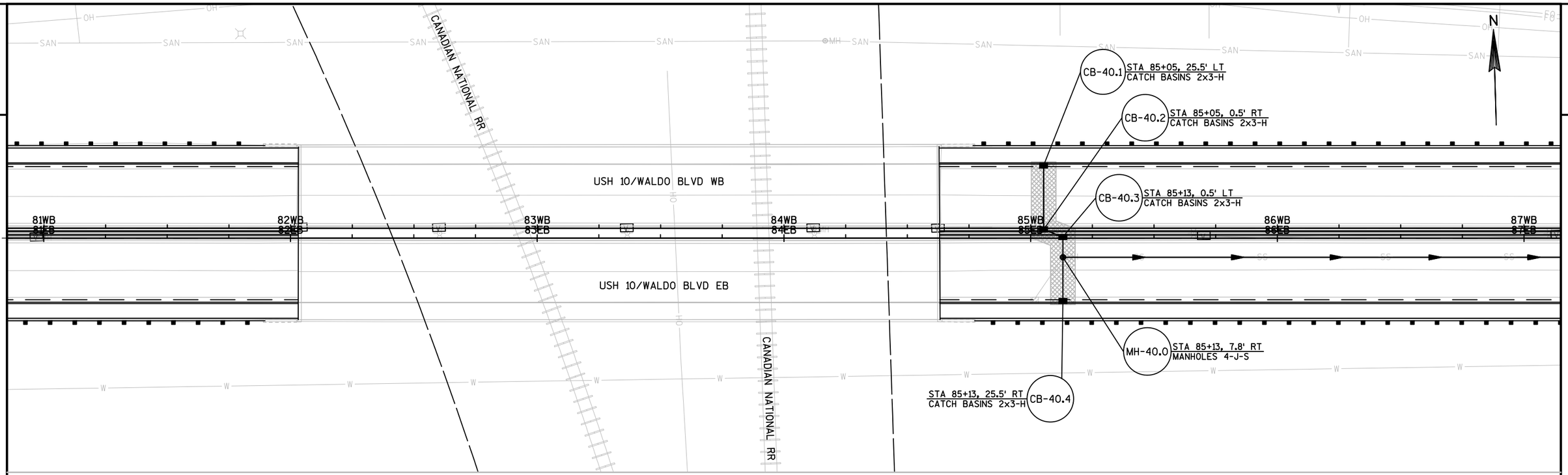


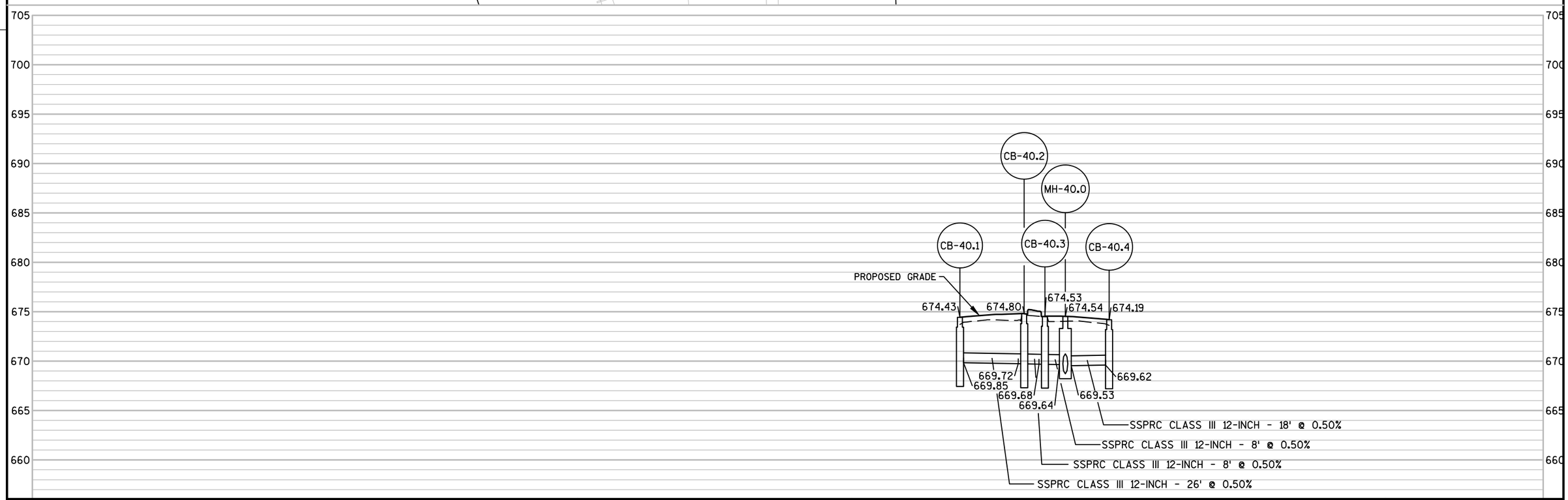


PROJECT NO:1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 149	E

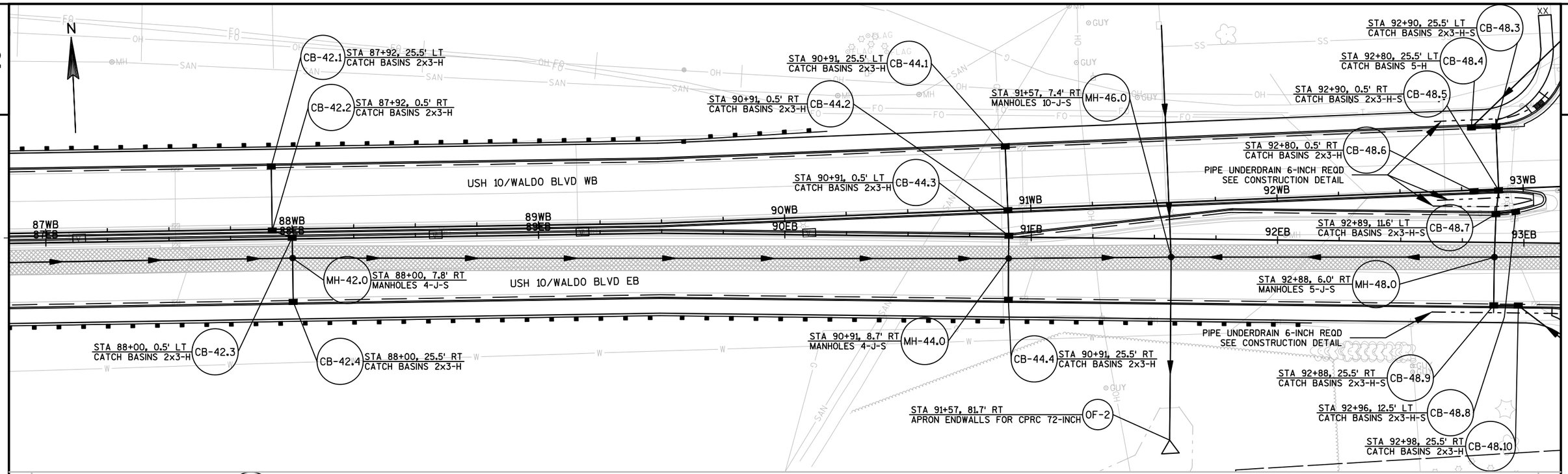

CANADIAN NATIONAL RR
USH 10/WALDO BLVD WB
USH 10/WALDO BLVD EB
CANADIAN NATIONAL RR
81WB
82WB
83WB
84WB
85WB
86WB
87WB
CB-40.1 STA 85+05, 25.5' LT CATCH BASINS 2x3-H
CB-40.2 STA 85+05, 0.5' RT CATCH BASINS 2x3-H
CB-40.3 STA 85+13, 0.5' LT CATCH BASINS 2x3-H
MH-40.0 STA 85+13, 7.8' RT MANHOLES 4-J-S
STA 85+13, 25.5' RT CATCH BASINS 2x3-H CB-40.4
N

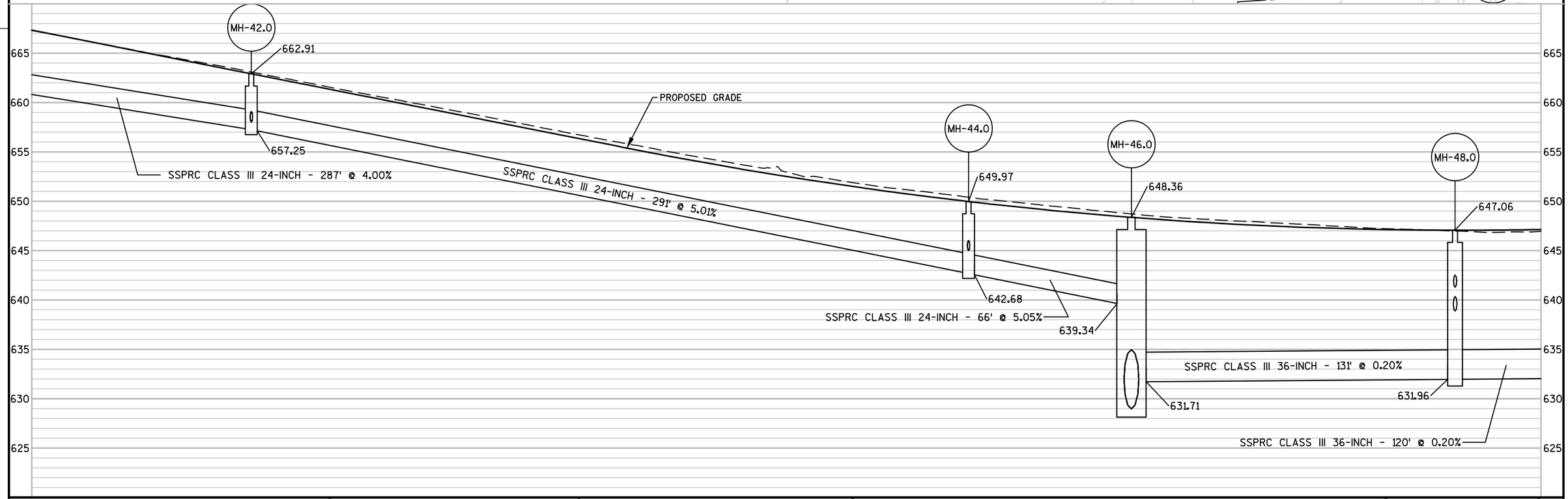

MH-40.0
674.54
668.73
PROPOSED GRADE
SSPRC CLASS III 24-INCH - 287' @ 4.00%
680
675
670
665
660
655
650
645
640



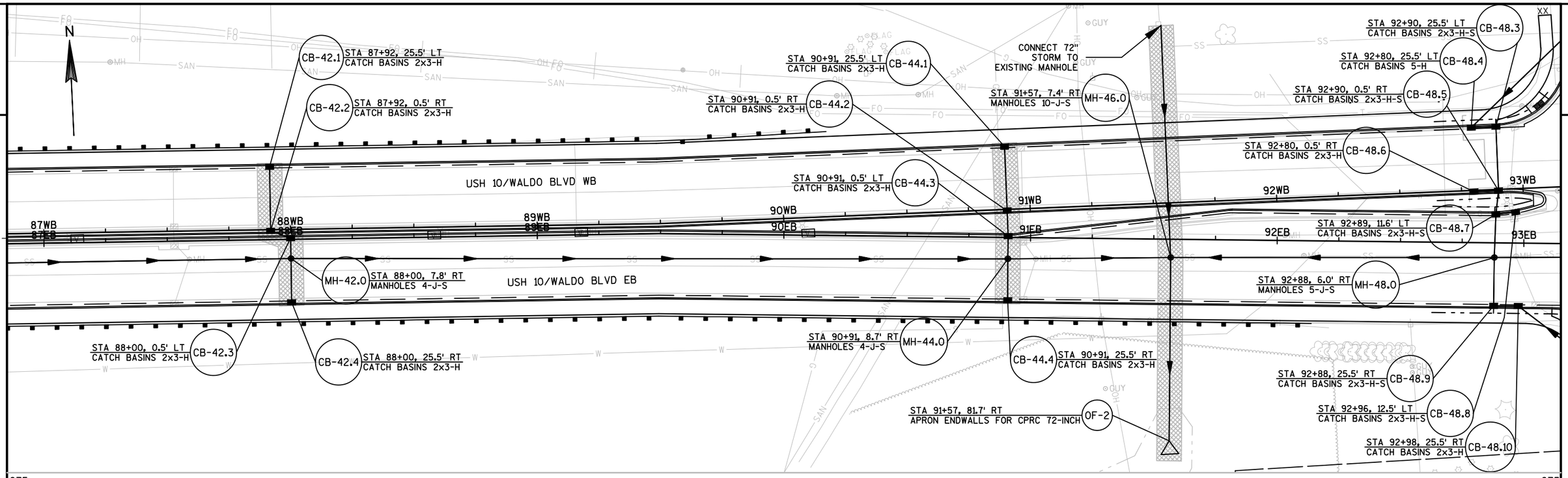


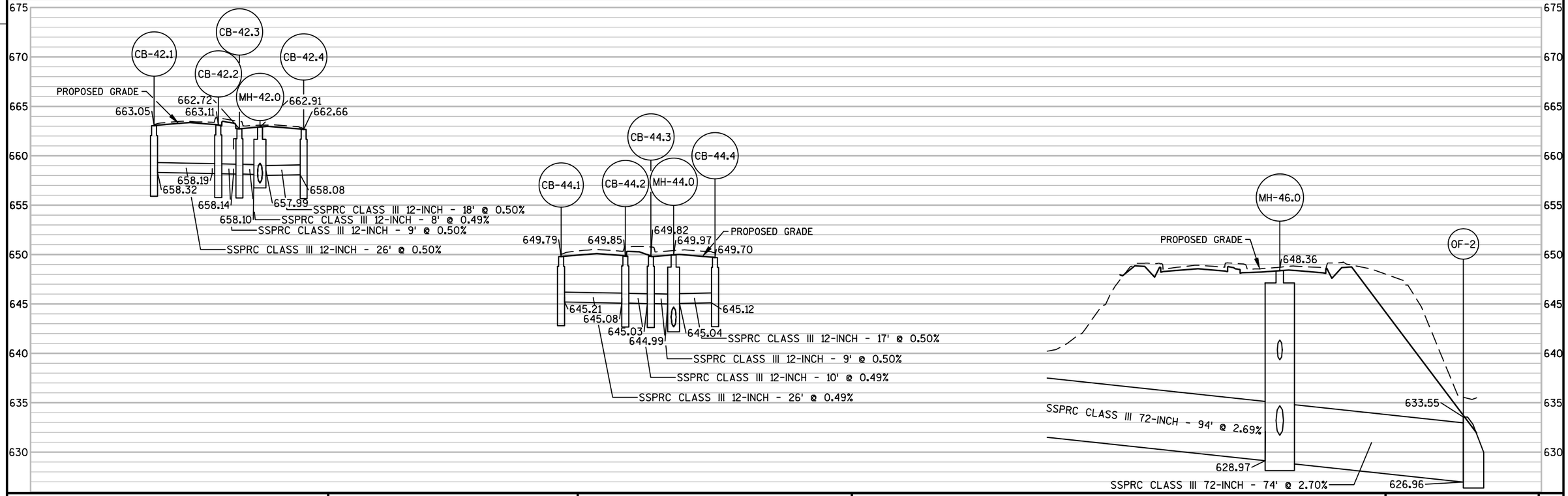
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 151	E





PROJECT NO:1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 152	E

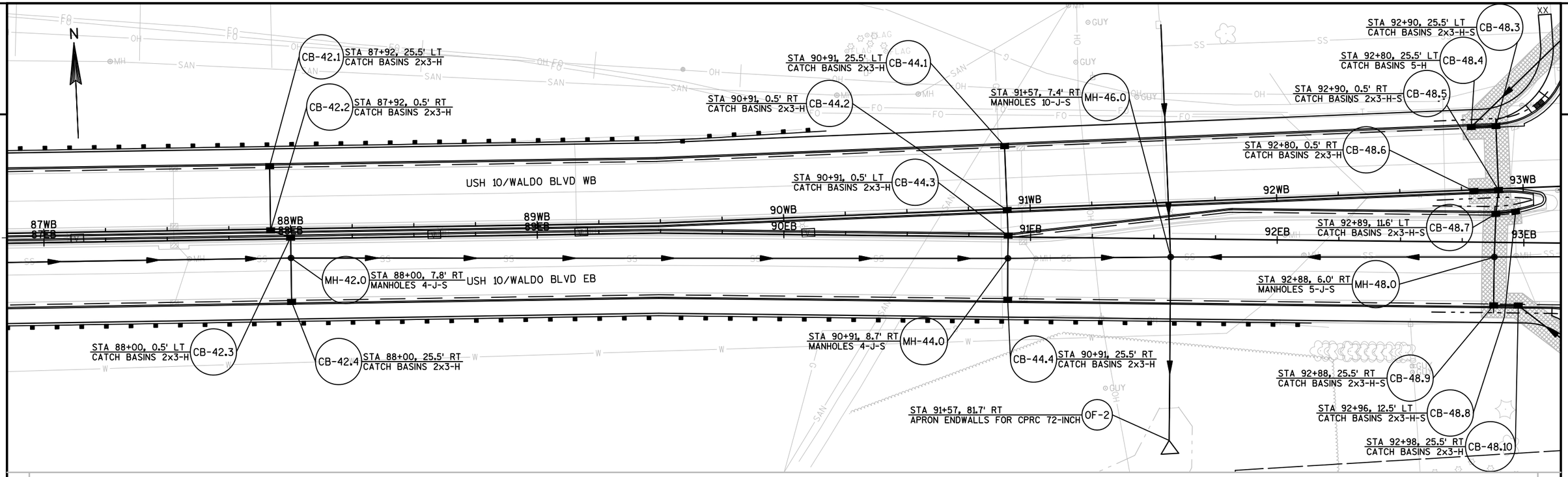


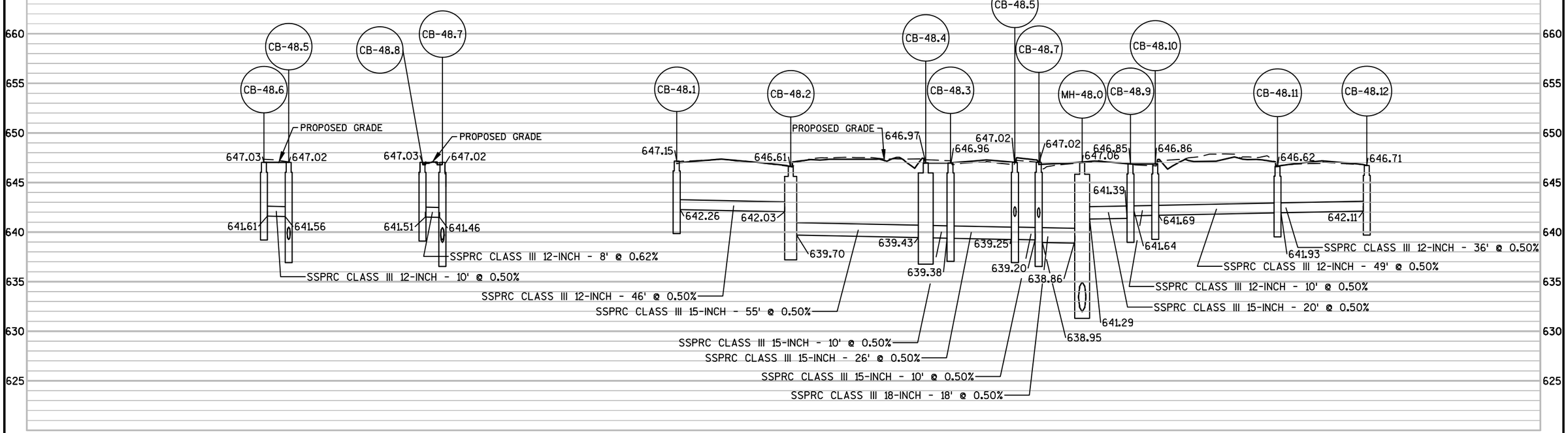


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET	E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\STORM SEWER\15003771_022500_SS.DWG PLOT DATE : 7/16/2018 10:26 AM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1 in:40ft_XREF

WISDOT/CADDS SHEET 41





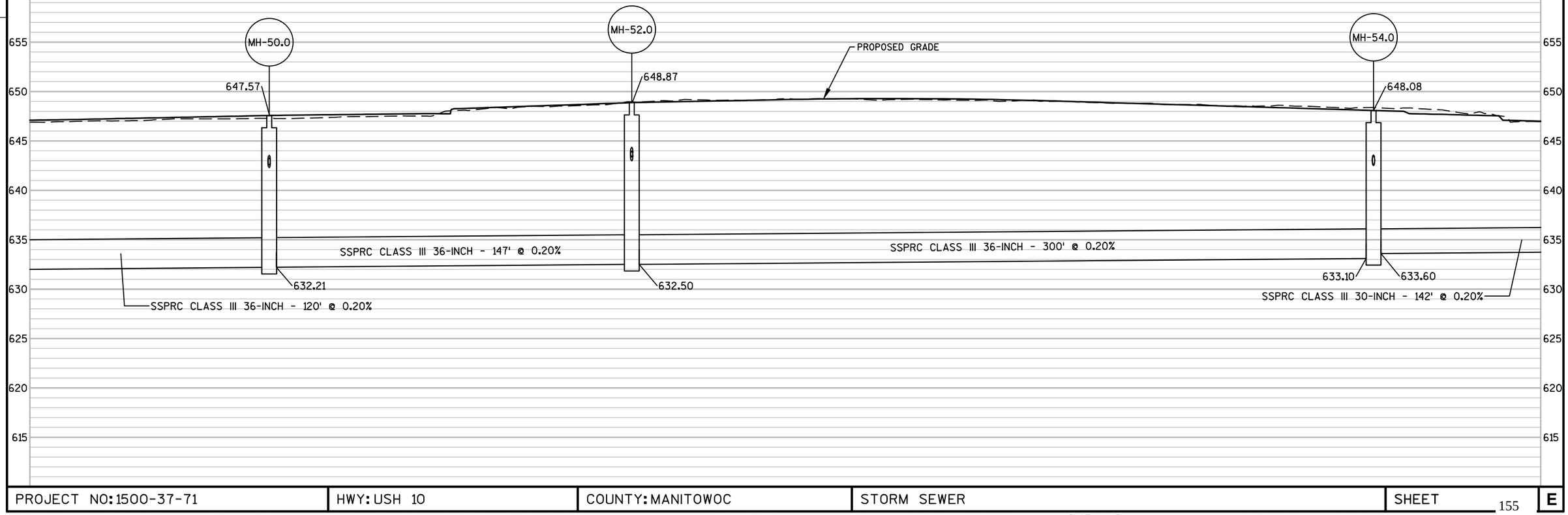
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 154	E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\STORM SEWER\15003771_022500_SS.DWG PLOT DATE : 7/16/2018 10:27 AM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1 in:40ft_XREF
WISDOT/CADDS SHEET 41

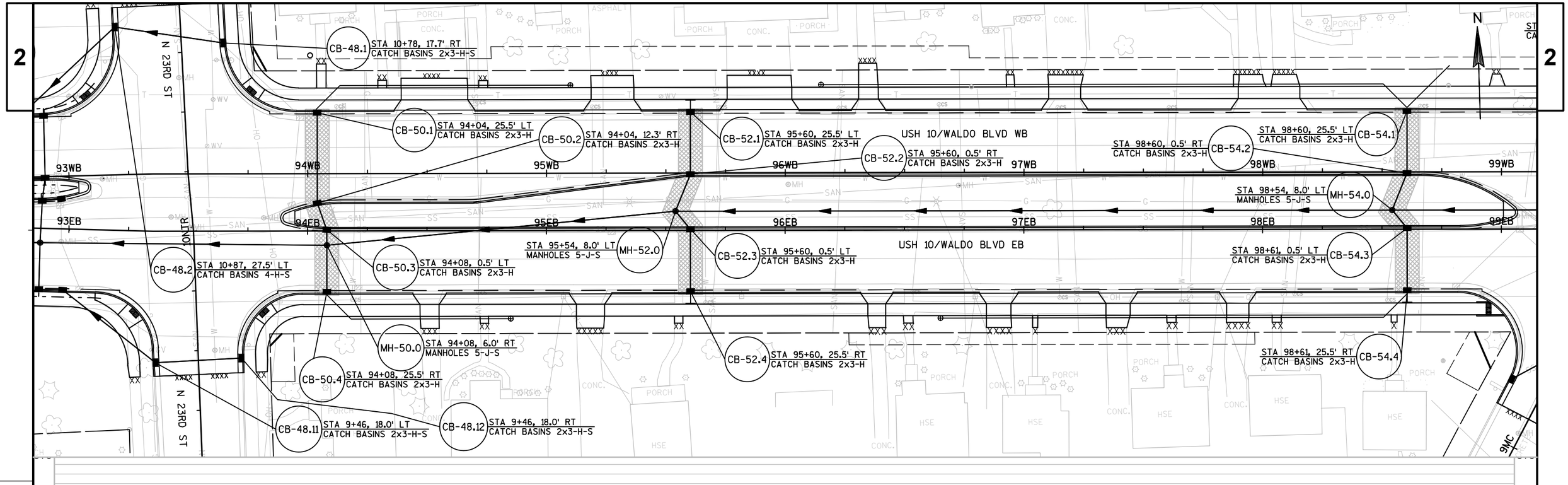
REMOVE EXISTING STORM SEWER (12") TO CONSTRUCTION LIMITS SEAL PIPE TO NORTH
CONNECT EXISTING PRIVATE LATERAL 6-INCH PVC REQD
6-INCH PVC REQD SEE CONSTRUCTION DETAIL
CONNECT EXISTING PRIVATE LATERAL 6-INCH PVC REQD SEE CONSTRUCTION DETAIL
6-INCH PVC REQD SEE CONSTRUCTION DETAIL
CONNECT EXISTING 15" STORM TO CB-48.2 CONCRETE COLLAR REQD
CONNECT EXISTING PRIVATE LATERAL 6-INCH PVC REQD SEE CONSTRUCTION DETAIL
6-INCH PVC REQD SEE CONSTRUCTION DETAIL

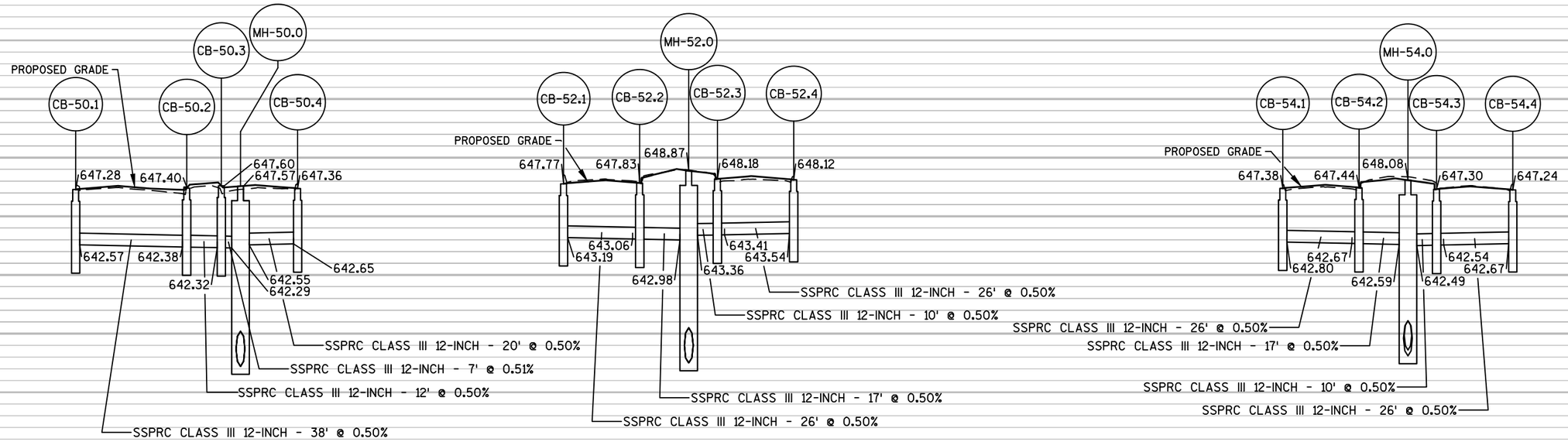
CB-48.1 STA 10+78, 17.7' RT CATCH BASINS 2x3-H-S
CB-50.1 STA 94+04, 25.5' LT CATCH BASINS 2x3-H
CB-50.2 STA 94+04, 12.3' RT CATCH BASINS 2x3-H
CB-52.1 STA 95+60, 25.5' LT CATCH BASINS 2x3-H
CB-52.2 STA 95+60, 0.5' RT CATCH BASINS 2x3-H
CB-54.1 STA 98+60, 25.5' LT CATCH BASINS 2x3-H
CB-54.2 STA 98+60, 0.5' RT CATCH BASINS 2x3-H
MH-54.0 STA 98+54, 8.0' LT MANHOLES 5-J-S
CB-48.2 STA 10+87, 27.5' LT CATCH BASINS 4-H-S
CB-50.3 STA 94+08, 0.5' LT CATCH BASINS 2x3-H
MH-52.0 STA 95+54, 8.0' LT MANHOLES 5-J-S
CB-52.3 STA 95+60, 0.5' LT CATCH BASINS 2x3-H
CB-54.3 STA 98+61, 0.5' LT CATCH BASINS 2x3-H
MH-50.0 STA 94+08, 6.0' RT MANHOLES 5-J-S
CB-50.4 STA 94+08, 25.5' RT CATCH BASINS 2x3-H
CB-52.4 STA 95+60, 25.5' RT CATCH BASINS 2x3-H
CB-54.4 STA 98+61, 25.5' RT CATCH BASINS 2x3-H
CB-48.11 STA 9+46, 18.0' LT CATCH BASINS 2x3-H-S
CB-48.12 STA 9+46, 18.0' RT CATCH BASINS 2x3-H-S

N 23RD ST
USH 10/TR
USH 10/WALDO BLVD WB
USH 10/WALDO BLVD EB
93WB 94WB 95WB 96WB 97WB 98WB 99WB
93EB 94EB 95EB 96EB 97EB 98EB 99EB



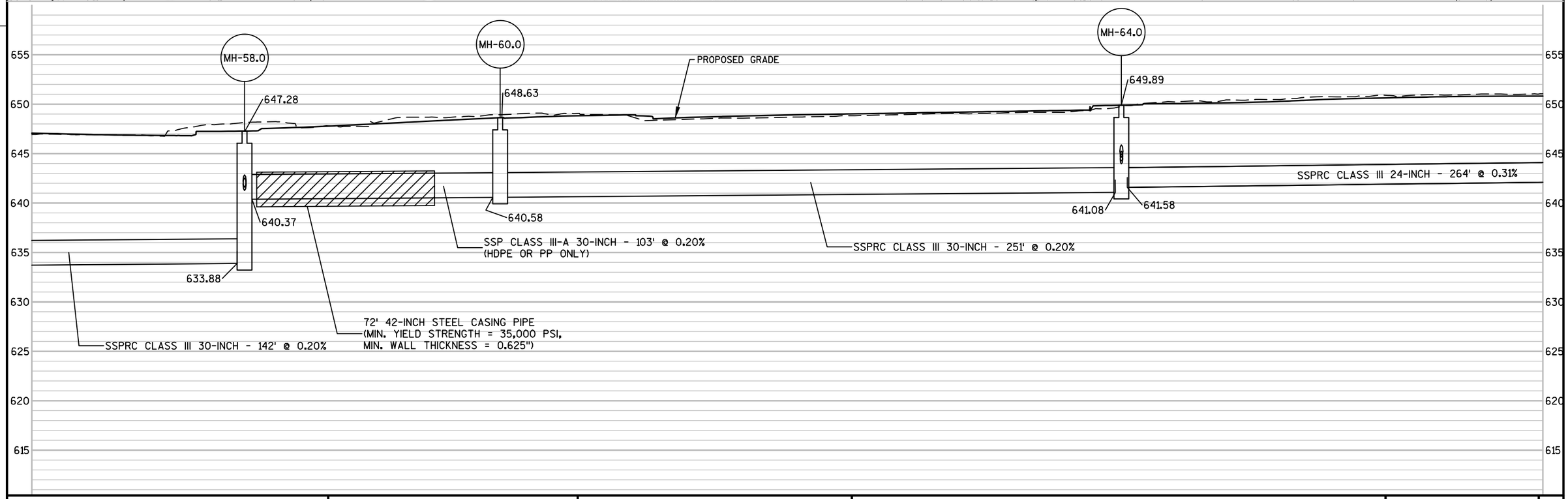
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 155	E





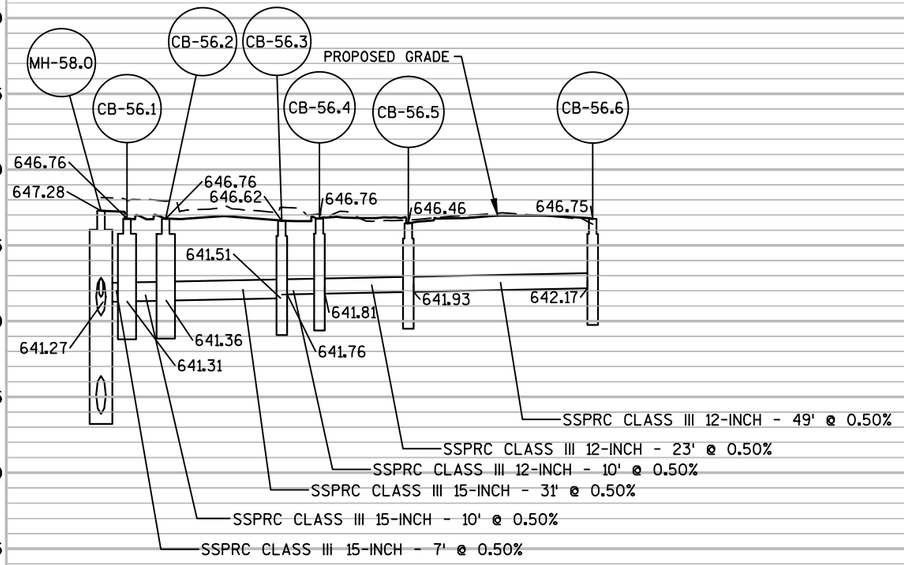
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 156	E

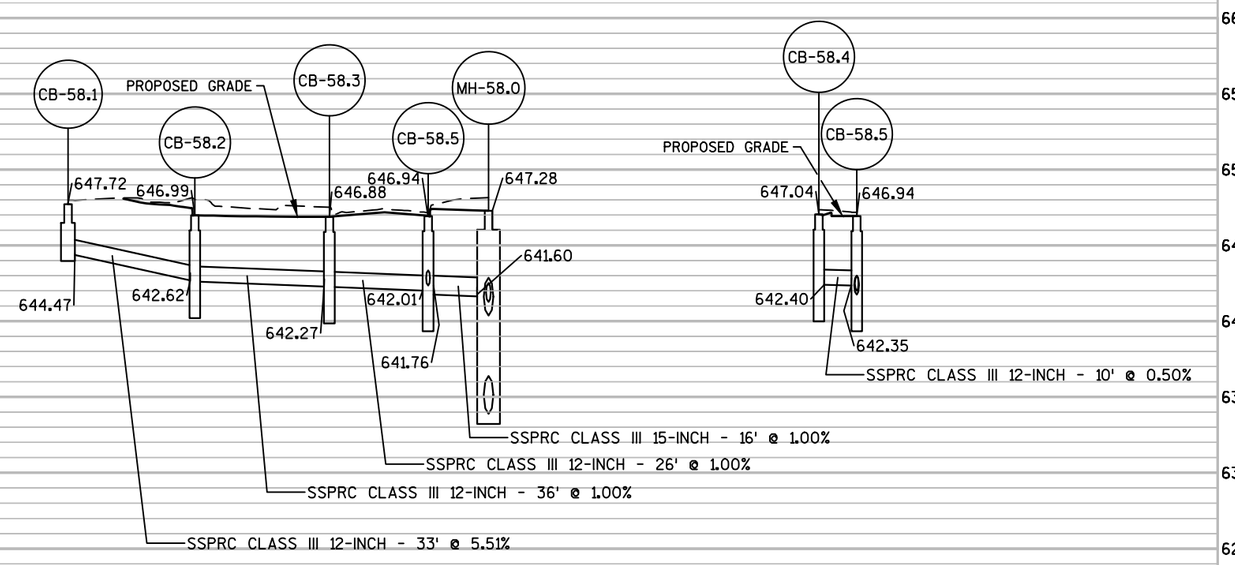
STA 100+00, 0.5' RT
CATCH BASINS 2x3-H-S
CB-58.5
STA 100+02, 25.5' LT
CATCH BASINS 2x3-H-S
CB-58.3
CB-58.1
STA 100+57, 52.7' LT
CATCH BASINS 3-BH
CB-58.2
STA 100+38, 25.5' LT
CATCH BASINS 2x3-H
NOTE: CONNECT EXISTING PRIVATE LATERAL TO CB-64.1 AND CB-64.2 6-INCH PVC REQD SEE CONSTRUCTION DETAIL
N 21ST ST
CB-64.2
STA 10+74, 17.6' RT
CATCH BASINS 2x3-H-S
CB-64.3
STA 103+43, 25.5' LT
CATCH BASINS 2x3-H
N
PIPE UNDERDRAIN
6-INCH REQD
SEE CONSTRUCTION DETAIL
CB-58.4
STA 100+10, 0.5' RT
CATCH BASINS 2x3-H
MH-60.0
STA 101+00, 8.0' LT
MANHOLES 5-J-S
USH 10/WALDO BLVD WB
STA 10+78, 17.4' LT
CATCH BASINS 2x3-H
CB-64.1
6-INCH PVC REQD
SEE CONSTRUCTION DETAIL
CB-64.4
STA 103+62, 11.5' RT
CATCH BASINS 2x3-H
99WB
100WB
101WB
102WB
103WB
104WB
105WB
99EB
100EB
101EB
102EB
103EB
104EB
105EB
10MC
PIPE UNDERDRAIN
6-INCH REQD
SEE CONSTRUCTION DETAIL
CB-56.1
STA 99+95, 1.2' LT
CATCH BASINS 4-H
MH-58.0
STA 99+97, 7.9' LT
MANHOLES 5-J-S
USH 10/WALDO BLVD EB
STA 103+51, 8.0' LT
MANHOLES 5-J-S
MH-64.0
CB-64.5
STA 103+60, 0.5' LT
CATCH BASINS 2x3-H
MENCHL DR
CB-56.2
STA 99+85, 3.7' LT
CATCH BASINS 4-H-S
6-INCH PVC REQD
SEE CONSTRUCTION DETAIL
CONNECT EXISTING PRIVATE LATERAL 6-INCH PVC REQD SEE CONSTRUCTION DETAIL
CONNECT EXISTING PRIVATE LATERAL 6-INCH PVC REQD SEE CONSTRUCTION DETAIL
CB-64.6
STA 103+45, 25.5' RT
CATCH BASINS 2x3-H
CB-56.5
STA 9+64, 14.3' RT
CATCH BASINS 2x3-H
CB-56.3
STA 99+76, 25.5' RT
CATCH BASINS 2x3-H
CONNECT EXISTING PRIVATE LATERAL 6-INCH PVC REQD SEE CONSTRUCTION DETAIL
9MC
CB-56.6
STA 9+25, 14.1' LT
CATCH BASINS 2x3-H
CB-56.4
STA 99+66, 25.8' RT
CATCH BASINS 2x3-H-S
NOTE: CONNECT EXISTING PRIVATE LATERAL TO CB-56.3 6-INCH PVC REQD SEE CONSTRUCTION DETAIL
STA 9+57, 18.5' LT
CATCH BASINS 2x3-H-S
CB-64.8
N 21ST ST
CB-64.7
STA 9+57, 18.9' RT
CATCH BASINS 2x3-H-S



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 157	E

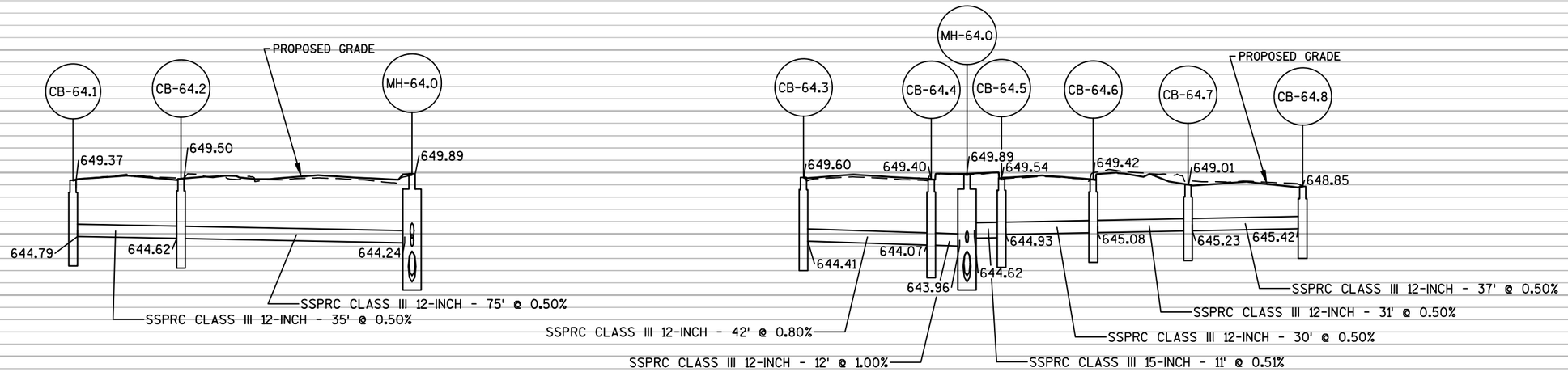
STA 100+00, 0.5' RT
CATCH BASINS 2x3-H-S
CB-58.5
STA 100+02, 25.5' LT
CATCH BASINS 2x3-H-S
CB-58.3
CB-58.1
STA 100+57, 52.7' LT
CATCH BASINS 3-BH
CB-58.2
STA 100+38, 25.5' LT
CATCH BASINS 2x3-H
USH 10/WALDO BLVD WB
CB-58.4
STA 100+10, 0.5' RT
CATCH BASINS 2x3-H
MH-60.0
STA 101+00, 8.0' LT
MANHOLES 5-J-S
STA 10+78, 17.4' LT
CATCH BASINS 2x3-H
CB-64.1
CB-64.2
STA 10+74, 17.6' RT
CATCH BASINS 2x3-H-S
CB-64.3
STA 103+43, 25.5' LT
CATCH BASINS 2x3-H
CB-64.4
STA 103+62, 11.5' RT
CATCH BASINS 2x3-H
N 21ST ST
99WB
100WB
101WB
102WB
103WB
104WB
105WB
99EB
100EB
101EB
102EB
103EB
104EB
105EB
10MC
USH 10/WALDO BLVD EB
CB-56.1
STA 99+95, 1.2' LT
CATCH BASINS 4-H
MH-58.0
STA 99+97, 7.9' LT
MANHOLES 5-J-S
STA 103+51, 8.0' LT
MANHOLES 5-J-S
MH-64.0
CB-64.5
STA 103+60, 0.5' LT
CATCH BASINS 2x3-H
CB-56.2
STA 99+85, 3.7' LT
CATCH BASINS 4-H-S
CB-56.5
STA 9+64, 14.3' RT
CATCH BASINS 2x3-H
CB-56.3
STA 99+76, 25.5' RT
CATCH BASINS 2x3-H
CB-56.6
STA 9+25, 14.1' LT
CATCH BASINS 2x3-H
CB-56.4
STA 99+66, 25.8' RT
CATCH BASINS 2x3-H-S
MENCHL DR
9MC
CB-64.6
STA 103+45, 25.5' RT
CATCH BASINS 2x3-H
CB-64.7
STA 9+57, 18.9' RT
CATCH BASINS 2x3-H-S
STA 9+57, 18.5' LT
CATCH BASINS 2x3-H-S
CB-64.8
N





PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 158	E

STA 100+00, 0.5' RT
CATCH BASINS 2x3-H-S
CB-58.5
STA 100+02, 25.5' LT
CATCH BASINS 2x3-H-S
CB-58.3
CB-58.1
STA 100+57, 52.7' LT
CATCH BASINS 3-BH
CB-58.2
STA 100+38, 25.5' LT
CATCH BASINS 2x3-H
CB-64.2
STA 10+74, 17.6' RT
CATCH BASINS 2x3-H-S
CB-64.3
STA 103+43, 25.5' LT
CATCH BASINS 2x3-H
N 21ST ST
N
USH 10/WALDO BLVD WB
CB-58.4
STA 100+10, 0.5' RT
CATCH BASINS 2x3-H
MH-60.0
STA 101+00, 8.0' LT
MANHOLES 5-J-S
STA 10+78, 17.4' LT
CATCH BASINS 2x3-H
CB-64.1
CB-64.4
STA 103+62, 11.5' RT
CATCH BASINS 2x3-H
99WB
100WB
101WB
102WB
103WB
104WB
105WB
99EB
100EB
101EB
102EB
103EB
104EB
105EB
10MC
USH 10/WALDO BLVD EB
CB-56.1
STA 99+95, 1.2' LT
CATCH BASINS 4-H
MH-58.0
STA 99+97, 7.9' LT
MANHOLES 5-J-S
STA 103+51, 8.0' LT
MANHOLES 5-J-S
MH-64.0
CB-64.5
STA 103+60, 0.5' LT
CATCH BASINS 2x3-H
CB-64.6
STA 103+45, 25.5' RT
CATCH BASINS 2x3-H
MENCHL DR
CB-56.2
STA 99+85, 3.7' LT
CATCH BASINS 4-H-S
CB-56.5
STA 9+64, 14.3' RT
CATCH BASINS 2x3-H
CB-56.3
STA 99+76, 25.5' RT
CATCH BASINS 2x3-H
CB-56.6
STA 9+25, 14.1' LT
CATCH BASINS 2x3-H
CB-56.4
STA 99+66, 25.8' RT
CATCH BASINS 2x3-H-S
STA 9+57, 18.5' LT
CATCH BASINS 2x3-H-S
CB-64.8
CB-64.7
STA 9+57, 18.9' RT
CATCH BASINS 2x3-H-S
9MC
N 21ST ST



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 159	E

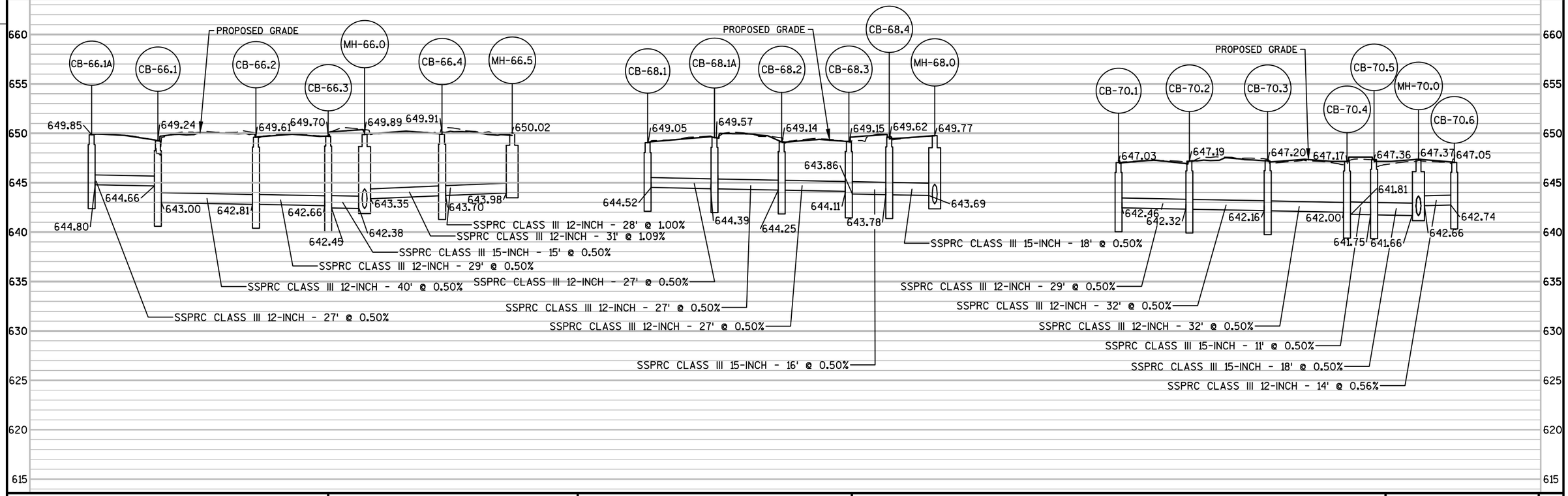
STA 10+79, 13.4' LT
CATCH BASINS 2x3-H-S
CB-66.1
CB-66.1A
STA 10+79, 13.4' RT
CATCH BASINS 2x3-H
STA 107+26, 0.5' RT
CATCH BASINS 2x3-H
CB-68.3
CB-68.1
STA 10+52, 13.6' RT
CATCH BASINS 2x3-H
CB-68.1A
STA 10+52, 13.5' LT
CATCH BASINS 2x3-H
STA 109+61, 26.0' LT
CATCH BASINS 2x3-H
CB-70.3
STA 10+50, 14.3' LT
CATCH BASINS 2x3-H-S
CB-70.2
CB-70.1
STA 10+50, 14.3' RT
CATCH BASINS 2x3-H
PARK ROW BLVD
ELM ST
N
STA 106+11, 25.5' LT
CATCH BASINS 2x3-H
CB-66.2
CB-68.2
STA 107+34, 25.5' LT
CATCH BASINS 2x3-H
STA 109+62, 6.1' RT
CATCH BASINS 2x3-H
CB-70.4
USH 10/WALDO BLVD WB
105WB
106WB
107WB
108WB
109WB
110WB
111WB
105SPR
106PR
107PR
108PR
109ELM
105EB
106EB
107EB
108EB
109EB
110EB
111EB
STA 109+62, 6.9' LT
CATCH BASINS 2x3-H
CB-70.5
USH 10/WALDO BLVD EB
STA 106+15, 3.5' RT
CATCH BASINS 2x3-H
CB-66.3
6-INCH PVC REQD
SEE CONSTRUCTION DETAIL
STA 106+15, 5.8' LT
MANHOLES 4-H
MH-66.0
STA 106+13, 25.5' RT
CATCH BASINS 2x3-H
CB-66.4
STA 9+57, 22.2' LT
MANHOLES 4-J-S
MH-66.5
N 20TH ST
CB-68.4
STA 107+23, 7.4' LT
CATCH BASINS 2x3-H
MH-68.0
STA 107+23, 11.0' RT
MANHOLES 4-J-S
6-INCH PVC REQD
SEE CONSTRUCTION DETAIL
CONNECT EXISTING PRIVATE
LATERAL 6-INCH PVC REQD
SEE CONSTRUCTION DETAIL
CONNECT EXISTING PRIVATE
LATERAL 6-INCH PVC REQD
SEE CONSTRUCTION DETAIL
STA 109+63, 11.0' RT
MANHOLES 4-J-S
MH-70.0
STA 109+63, 25.5' RT
CATCH BASINS 2x3-H
CB-70.6
CONNECT EXISTING PRIVATE
LATERAL 6-INCH PVC REQD
SEE CONSTRUCTION DETAIL
NOTE:
CONNECT EXISTING PRIVATE LATERALS
TO CB-66.1, CB-68.1 AND CB-70.2
6-INCH PVC REQD SEE CONSTRUCTION DETAIL

670
665
660
655
650
645
640
635
630
625

PROPOSED GRADE
MH-66.0
649.89
SSPRC CLASS III 24-INCH - 264' @ 0.31%
642.38
MH-68.0
649.77
SSPRC CLASS III 24-INCH - 240' @ 0.50%
642.86
MH-70.0
647.37
PROPOSED GRADE
SSPRC CLASS III 24-INCH - 313' @ 0.50%
641.66

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 160	E

STA 10+79, 13.4' LT
CATCH BASINS 2x3-H-S
CB-66.1
CB-66.1A
STA 10+79, 13.4' RT
CATCH BASINS 2x3-H
STA 107+26, 0.5' RT
CATCH BASINS 2x3-H
CB-68.3
PARK ROW BLVD
CB-68.1
STA 10+52, 13.6' RT
CATCH BASINS 2x3-H
CB-68.1A
STA 10+52, 13.5' LT
CATCH BASINS 2x3-H
STA 109+61, 26.0' LT
CATCH BASINS 2x3-H
CB-70.3
STA 10+50, 14.3' LT
CATCH BASINS 2x3-H-S
CB-70.2
CB-70.1
STA 10+50, 14.3' RT
CATCH BASINS 2x3-H
ELM ST
N
STA 106+11, 25.5' LT
CATCH BASINS 2x3-H
CB-66.2
CB-68.2
STA 107+34, 25.5' LT
CATCH BASINS 2x3-H
STA 109+62, 6.1' RT
CATCH BASINS 2x3-H
CB-70.4
105WB
106WB
107WB
10NPR
108WB
USH 10/WALDO BLVD WB
109WB
10ELM
110WB
111WB
105EB
106EB
10SPR
107EB
108EB
109EB
110EB
111EB
STA 109+62, 6.9' LT
CATCH BASINS 2x3-H
CB-70.5
STA 106+15, 3.5' RT
CATCH BASINS 2x3-H
CB-66.3
USH 10/WALDO BLVD EB
STA 106+15, 5.8' LT
MANHOLES 4-H
MH-66.0
STA 106+13, 25.5' RT
CATCH BASINS 2x3-H
CB-66.4
STA 9+57, 22.2' LT
MANHOLES 4-J-S
MH-66.5
N 20TH ST
CONNECT EXISTING
12" STORM TO MH-66.5
CONCRETE COLLAR REQD
CB-68.4
STA 107+23, 7.4' LT
CATCH BASINS 2x3-H
MH-68.0
STA 107+23, 11.0' RT
MANHOLES 4-J-S
STA 109+63, 11.0' RT
MANHOLES 4-J-S
MH-70.0
STA 109+63, 25.5' RT
CATCH BASINS 2x3-H
CB-70.6



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 161	E

CB-72.1 STA 112+74, 25.5' LT
CATCH BASINS 2x3-H

CB-72.2 STA 112+75, 0.5' RT
CATCH BASINS 2x3-H

CB-74.1 STA 115+09, 25.5' LT
CATCH BASINS 2x3-H

CB-74.2 STA 115+09, 0.5' RT
CATCH BASINS 2x3-H

CB-74.3 STA 115+10, 8.5' RT
CATCH BASINS 2x3-H

USH 10/WALDO BLVD WB

111WB 112WB 113WB 114WB 115WB 116WB 117WB

CB-72.3 STA 112+76, 0.5' LT
CATCH BASINS 2x3-H

111EB 112EB 113EB 114EB 115EB 116EB 117EB

USH 10/WALDO BLVD EB

MH-72.0 STA 112+76, 11.0' RT
MANHOLES 4-J-S

MH-74.0 STA 115+11, 11.0' RT
MANHOLES 4-J-S

6-INCH PVC REQD
SEE CONSTRUCTION DETAIL

CB-72.4 STA 112+73, 25.5' RT
CATCH BASINS 2x3-H

6-INCH PVC REQD
SEE CONSTRUCTION DETAIL

CB-74.4 STA 115+11, 25.5' RT
CATCH BASINS 2x3-H

6-INCH PVC REQD
SEE CONSTRUCTION DETAIL

N

MH-72.0

MH-74.0

PROPOSED GRADE

645.75

644.55

640.09

638.92

SSPRC CLASS III 24-INCH - 313' @ 0.50%

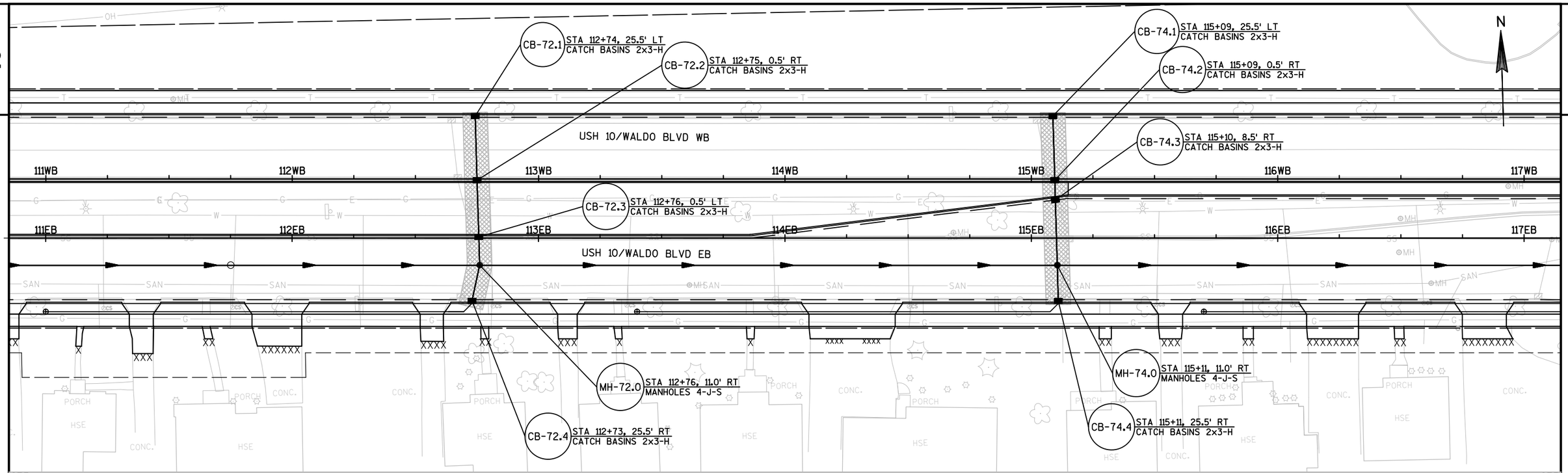
SSPRC CLASS III 24-INCH - 234' @ 0.50%

SSPRC CLASS III 24-INCH - 256' @ 0.75%

655 650 645 640 635 630 625 620 615

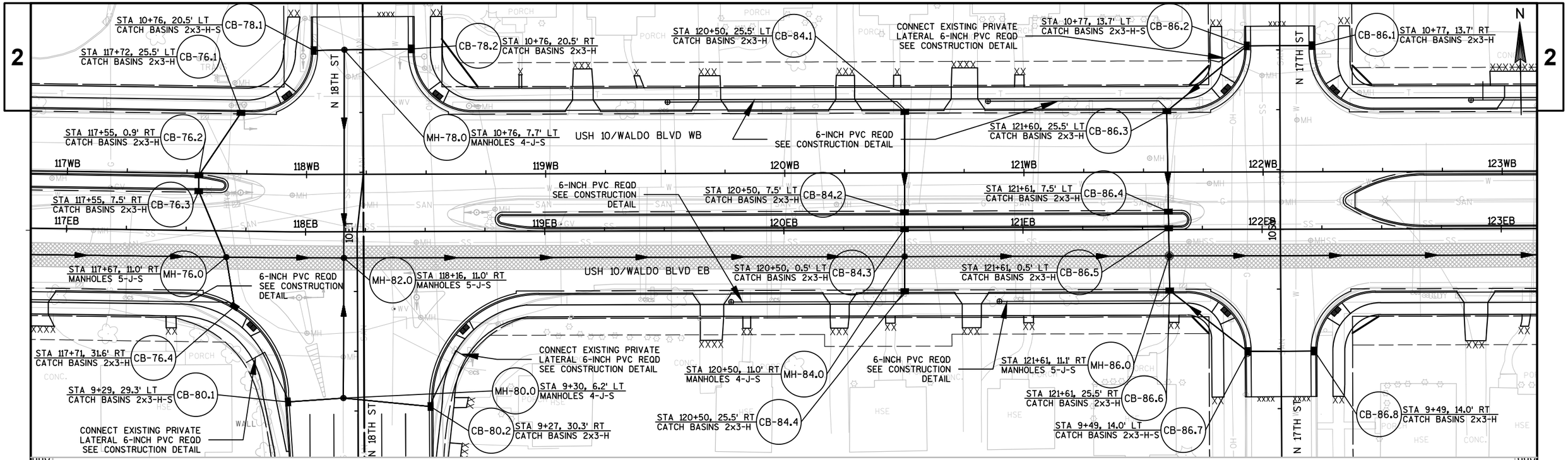
PROJECT NO:1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET	E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\STORM SEWER\15003771_022500_SS.DWG PLOT DATE : 7/16/2018 10:29 AM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1 in:40ft_XREF
WISDOT/CADDS SHEET 41

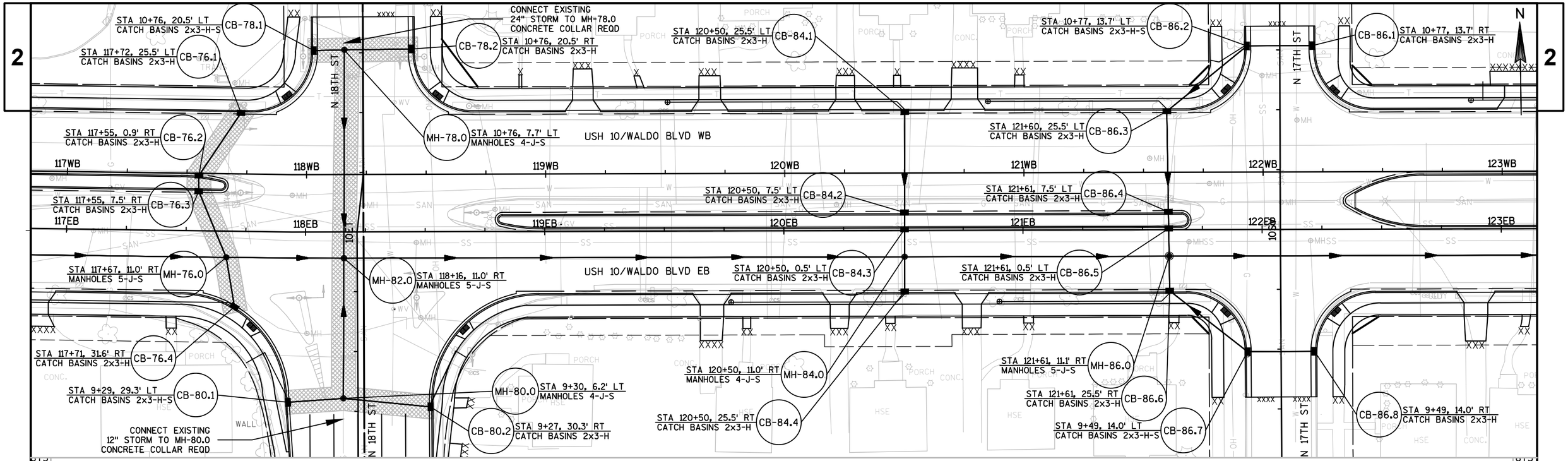


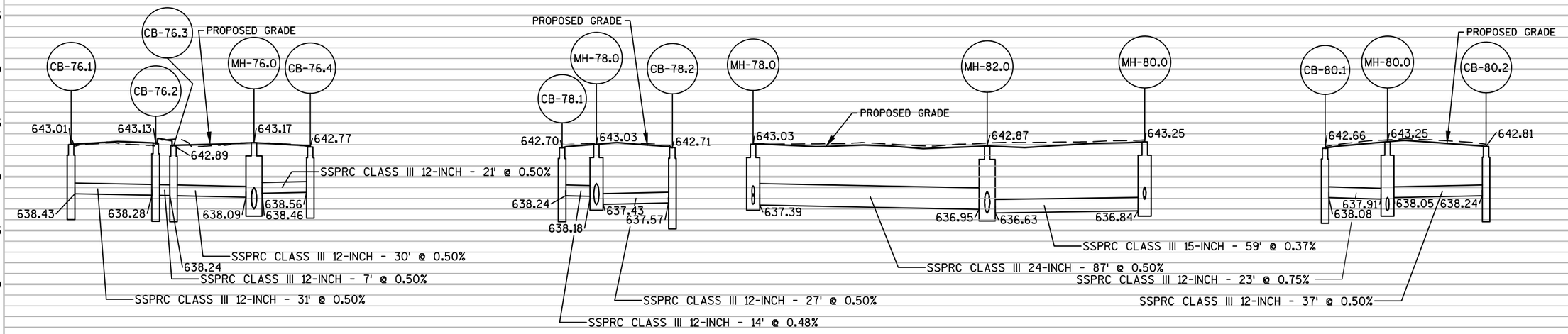
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET	E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\STORM SEWER\15003771_022500_SS.DWG PLOT DATE : 7/16/2018 10:30 AM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1 in:40ft_XREF

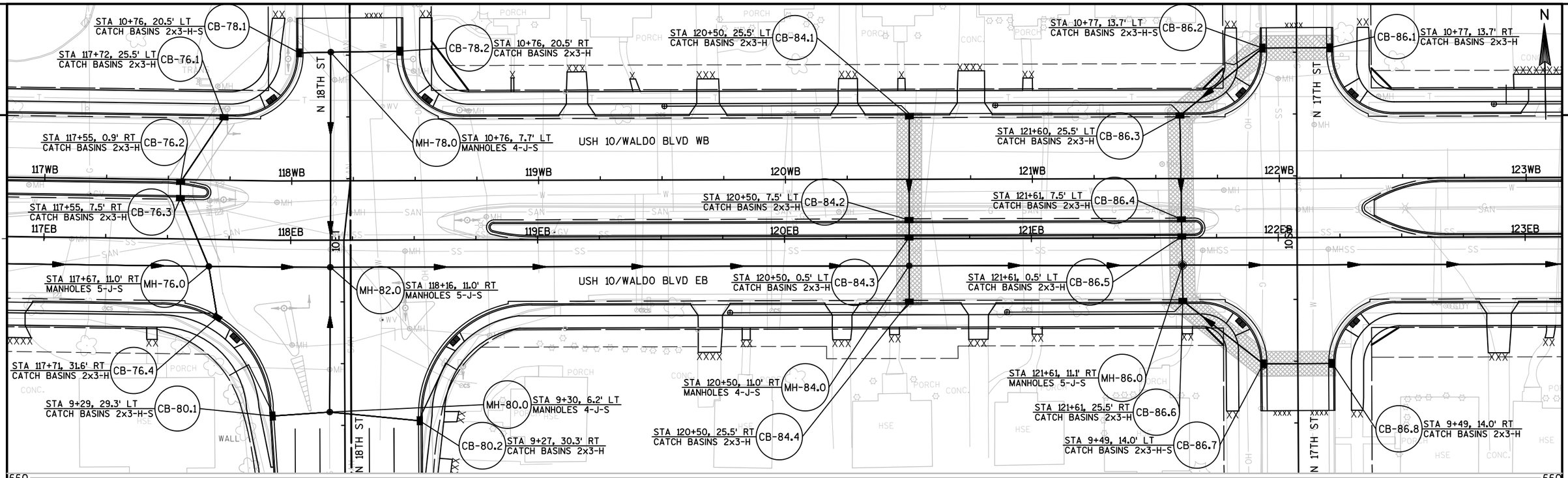


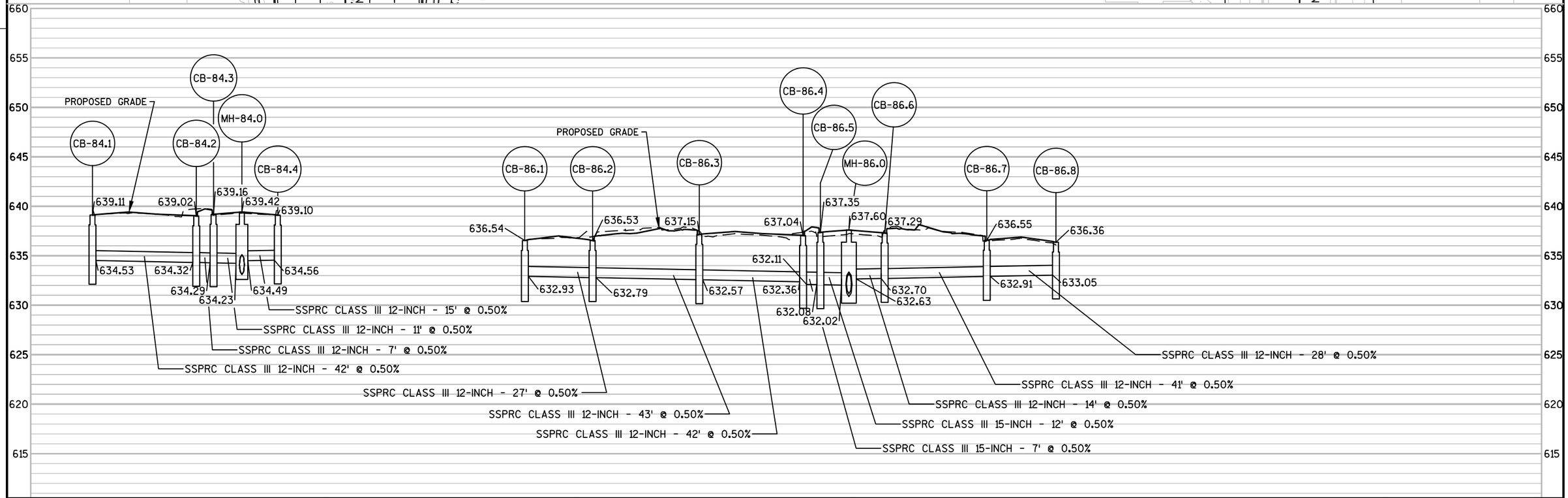
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 164	E





PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 165	E





PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 166	E

CONNECT EXISTING PRIVATE LATERAL 6-INCH PVC REQD SEE CONSTRUCTION DETAIL

6-INCH PVC REQD SEE CONSTRUCTION DETAIL

STA 10+77, 14.1' LT CATCH BASINS 2x3-H-S — CB-92.2

CB-90.1 STA 123+25, 25.5' LT CATCH BASINS 2x3-H

CB-90.2 STA 123+25, 0.5' RT CATCH BASINS 2x3-H

STA 125+10, 25.5' LT CATCH BASINS 2x3-H — CB-92.3

CB-90.3 STA 123+25, 0.5' LT CATCH BASINS 2x3-H

STA 125+15, 5.4' RT CATCH BASINS 2x3-H — CB-92.4

STA 125+15, 5.5' LT CATCH BASINS 2x3-H — CB-92.5

STA 125+15, 11.0' RT MANHOLES 5-J-S — MH-92.0

CONNECT EXISTING PRIVATE LATERAL 6-INCH PVC REQD SEE CONSTRUCTION DETAIL

MH-90.0 STA 123+25, 11.0' RT MANHOLES 5-J-S

CB-90.4 STA 123+25, 25.5' RT CATCH BASINS 2x3-H

STA 125+11, 25.5' RT CATCH BASINS 2x3-H — CB-92.6

STA 9+49, 13.8' LT CATCH BASINS 2x3-H-S — CB-92.7

CB-92.1 STA 10+77, 14.2' RT CATCH BASINS 2x3-H

USH 10/WALDO BLVD WB

CONNECT EXISTING PRIVATE LATERAL 6-INCH PVC REQD SEE CONSTRUCTION DETAIL

STA 10+77, 13.8' LT CATCH BASINS 2x3-H-S — CB-96.2

6-INCH PVC REQD SEE CONSTRUCTION DETAIL

CB-96.1 STA 10+77, 13.8' RT CATCH BASINS 2x3-H

CB-96.3 STA 127+75, 25.5' LT CATCH BASINS 2x3-H-S

STA 127+75, 4.9' RT CATCH BASINS 2x3-H — CB-96.4

STA 127+75, 4.7' LT CATCH BASINS 2x3-H — CB-96.5

STA 127+75, 11.0' RT MANHOLES 5-J-S — MH-96.0

USH 10/WALDO BLVD EB

CONNECT EXISTING PRIVATE LATERAL 6-INCH PVC REQD SEE CONSTRUCTION DETAIL

CB-92.8 STA 9+49, 13.8' RT CATCH BASINS 2x3-H-S

CONNECT EXISTING LATERAL 8-INCH PVC REQD SEE CONSTRUCTION DETAIL

STA 127+75, 25.5' RT CATCH BASINS 2x3-H-S — CB-96.6

STA 9+49, 13.8' LT CATCH BASINS 2x3-H-S — CB-96.7

CB-96.8 STA 9+49, 13.8' RT CATCH BASINS 2x3-H

CONNECT EXISTING PRIVATE LATERAL 6-INCH PVC REQD SEE CONSTRUCTION DETAIL

N 16TH ST

N 15TH ST

10 ST

123WB 124WB 125WB 126WB 127WB 128WB 129WB

123EB 124EB 125EB 126EB 127EB 128EB 129EB

MH-90.0 635.73

MH-92.0 633.78

MH-96.0 632.78

PROPOSED GRADE

SSPRC CLASS III 30-INCH - 190' @ 1.00%

629.23

627.33

SSPRC CLASS III 36-INCH - 260' @ 1.00%

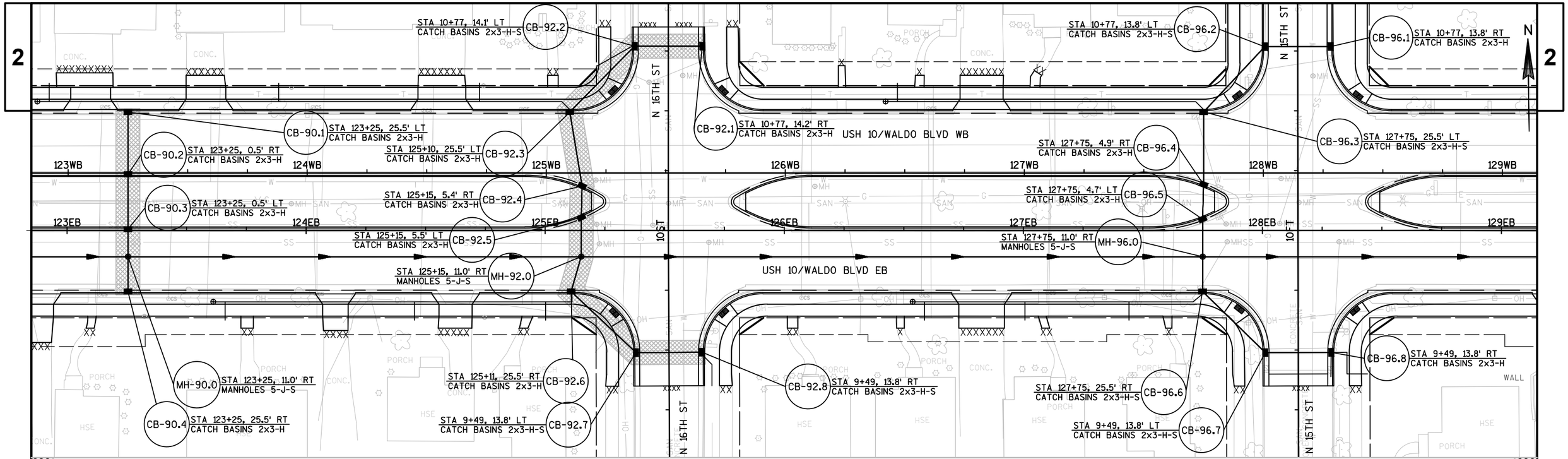
624.73

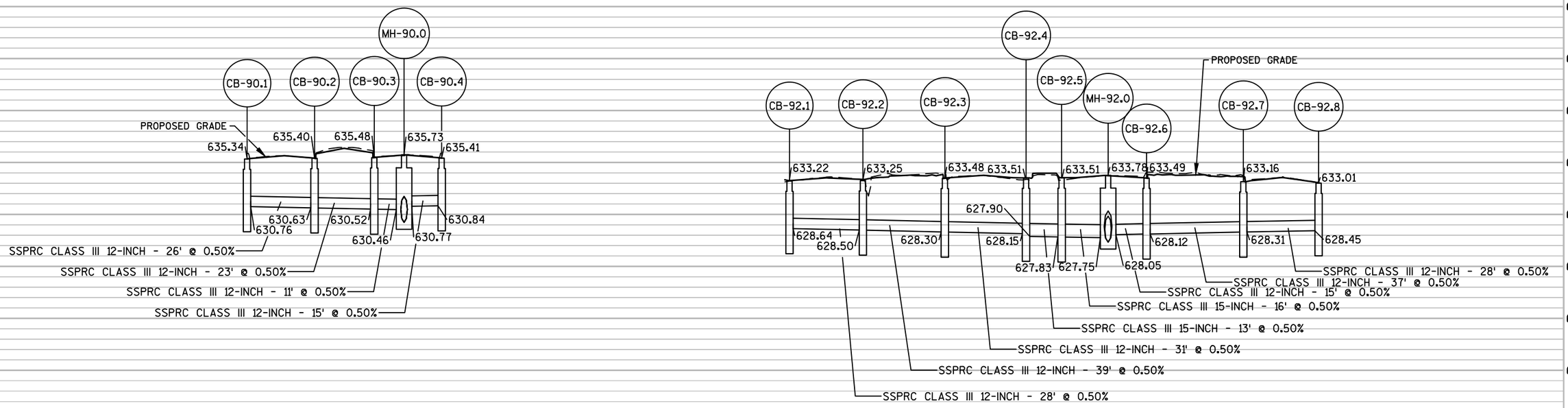
SSPRC CLASS III 30-INCH - 164' @ 1.00%

SSPRC CLASS III 36-INCH - 284' @ 1.00%

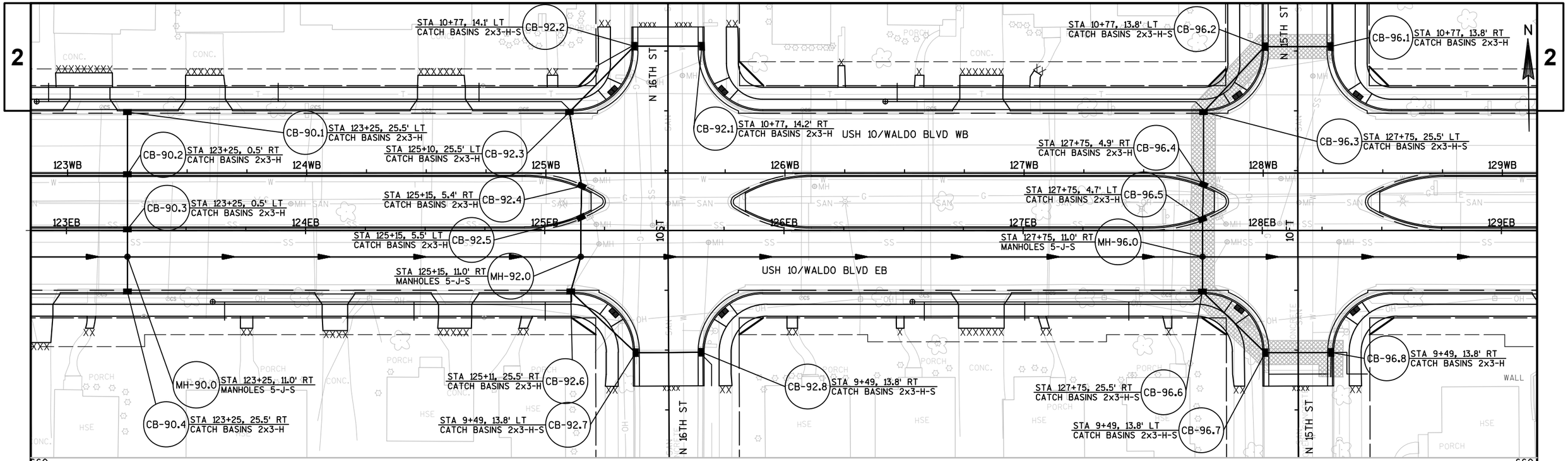
645 640 635 630 625 620 615 610 605 600

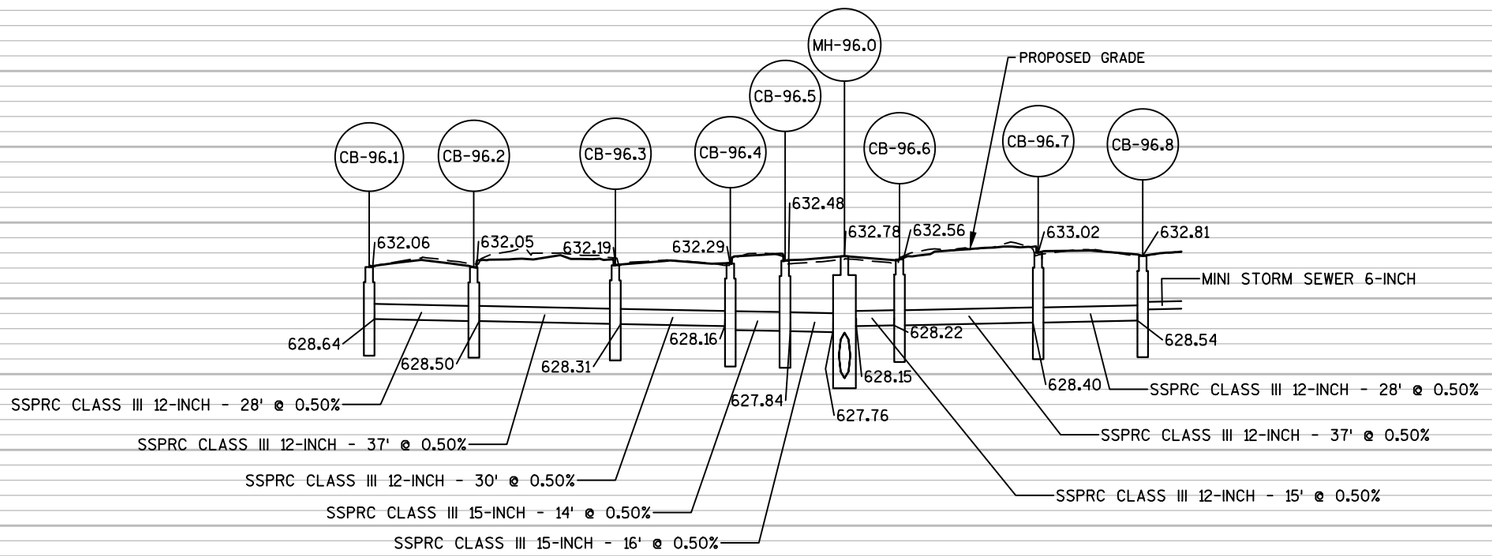
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 167	E





PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 168	E





PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 169	E

N

STA 130+50, 25.5' LT CATCH BASINS 2x3-H — CB-100.3

STA 10+77, 17.9' LT CATCH BASINS 2x3-H — CB-100.2

CB-100.1 STA 10+77, 17.9' RT CATCH BASINS 2x3-H

STA 133+42, 25.5' LT CATCH BASINS 2x3-H — CB-102.1

STA 134+09, 25.5' LT CATCH BASINS 2x3-H — CB-104.1

MENASHA AVE

N 14TH ST

STA 130+56, 5.5' RT CATCH BASINS 2x3-H — CB-100.4

USH 10/WALDO BLVD WB

STA 133+42, 0.5' RT CATCH BASINS 2x3-H — CB-102.2

CB-104.2 STA 134+09, 0.5' RT CATCH BASINS 2x3-H

129WB 130WB 131WB 132WB 133WB 134WB 135WB

STA 130+55, 5.3' LT CATCH BASINS 2x3-H — CB-100.5

STA 133+43, 11.5' LT CATCH BASINS 2x3-H — CB-102.3

CB-104.3 STA 134+08, 11.5' LT CATCH BASINS 2x3-H

129EB 130EB 131EB 132EB 133EB 134EB 135EB

10TH

STA 130+59, 11.0' RT MANHOLES 5-J-S — MH-100.0

USH 10/WALDO BLVD EB

STA 133+43, 10.9' RT MANHOLES 6-J-S — MH-102.0

6-INCH PVC REQD SEE CONSTRUCTION DETAIL

CONNECT EXISTING PRIVATE LATERAL 6-INCH PVC REQD SEE CONSTRUCTION DETAIL

6-INCH PVC REQD SEE CONSTRUCTION DETAIL

MH-104.0 STA 134+08, 11.0' RT MANHOLES 5-J-S

6-INCH PVC REQD SEE CONSTRUCTION DETAIL

STA 130+59, 25.7' RT CATCH BASINS 2x3-H — CB-100.6

STA 133+43, 27.0' RT CATCH BASINS 4-H — CB-102.4

STA 9+47, 14.3' LT CATCH BASINS 2x3-H-S — CB-100.7

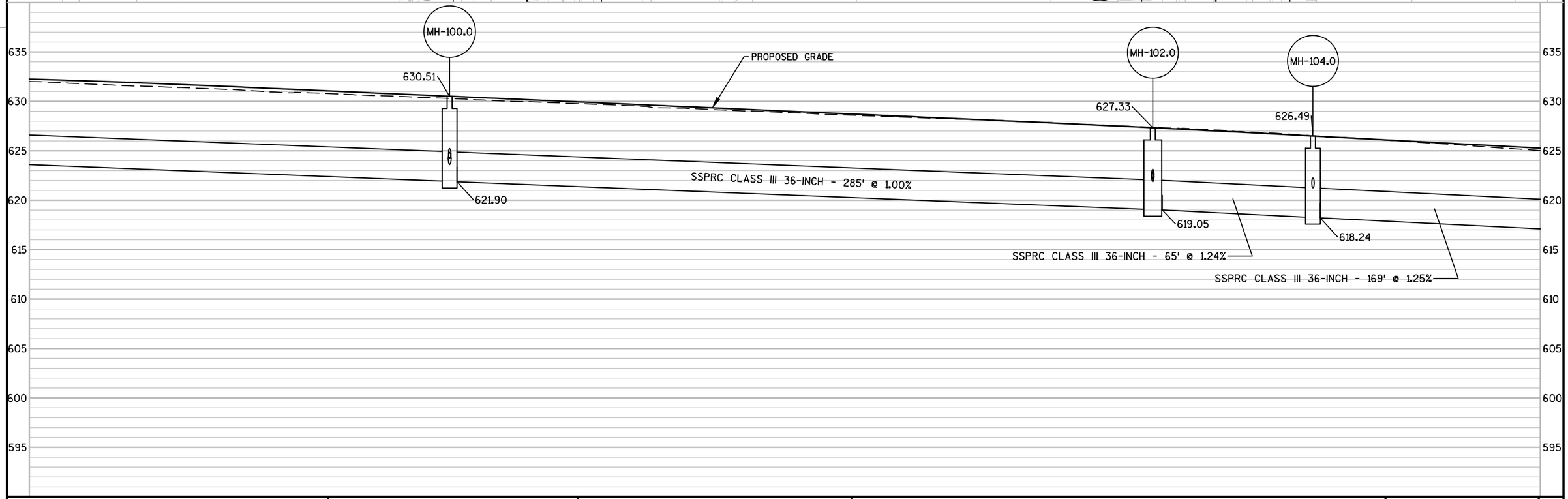
CB-100.8 STA 9+47, 14.3' RT CATCH BASINS 2x3-H-S

STA 9+47, 13.8' LT CATCH BASINS 2x3-H-S — CB-102.5

CB-102.6 STA 9+47, 13.9' RT CATCH BASINS 2x3-H

N 14TH ST

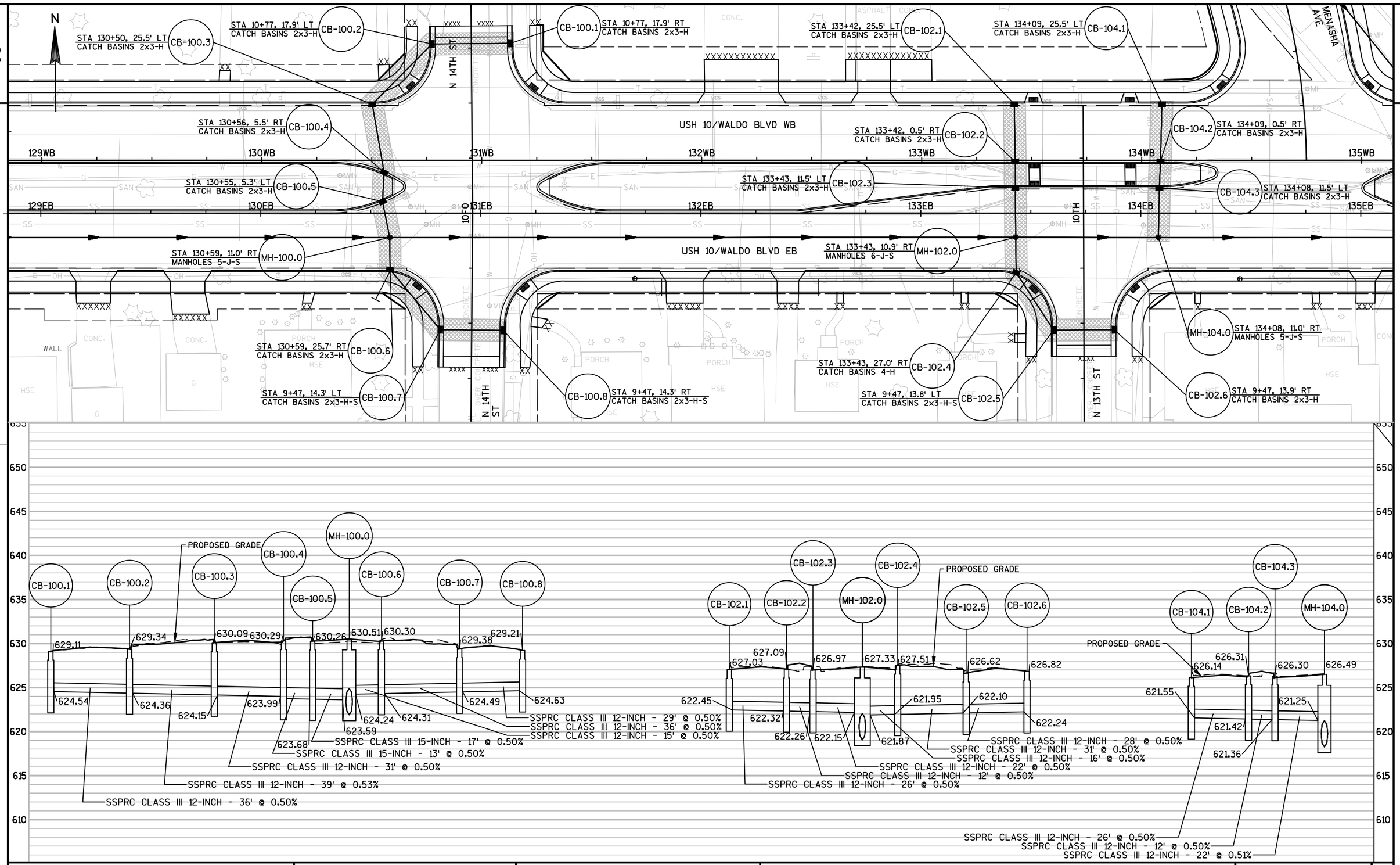
N 13TH ST



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 170	E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\STORM SEWER\15003771_022500_SS.DWG PLOT DATE : 7/16/2018 10:33 AM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1 in:40ft_XREF

WISDOT/CADDS SHEET 41



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 171	E

2

MENASHA AVE

N 12TH ST

10TH ST

USH 10/WALDO BLVD WB

USH 10/WALDO BLVD EB

CB-106.1 STA 135+40, 50.0' LT INLETS 3-BH

CB-106.2 STA 135+76, 25.5' LT CATCH BASINS 2x3-H

CB-106.3 STA 135+76, 0.5' RT CATCH BASINS 2x3-H

MH-108.1 STA 10+80, 10.4' LT MANHOLES 5-J-S

CB-106.4 STA 135+77, 0.5' LT CATCH BASINS 2x3-H

6-INCH PVC REQD SEE CONSTRUCTION DETAIL

6-INCH PVC REQD SEE CONSTRUCTION DETAIL

STA 138+33, 25.5' LT CATCH BASINS 2x3-H CB-110.1

CONNECT EXISTING PRIVATE LATERAL 6-INCH PVC REQD SEE CONSTRUCTION DETAIL

CB-110.4 STA 138+23, 0.5' RT CATCH BASINS 2x3-H

STA 138+23, 25.5' LT CATCH BASINS 2x3-H CB-110.2

CB-110.3 STA 138+33, 0.5' RT CATCH BASINS 2x3-H

STA 138+24, 1.1' LT CATCH BASINS 2x3-H CB-110.6

CB-110.5 STA 138+34, 2.3' LT CATCH BASINS 2x3-H

STA 140+89, 25.5' LT CATCH BASINS 2x3-H CB-112.2

STA 140+99, 25.5' LT CATCH BASINS 2x3-H-S CB-112.1

PIPE UNDERDRAIN 6-INCH REQD SEE CONSTRUCTION DETAIL

STA 140+93, 0.5' RT CATCH BASINS 2x3-H CB-112.3

STA 141+03, 0.5' RT CATCH BASINS 2x3-H-S CB-112.4

STA 140+87, 7.5' RT CATCH BASINS 4-H CB-112.5

STA 141+09, 6.0' RT CATCH BASINS 4-H-S CB-112.6

135WB 136WB 137WB 138WB 139WB 140WB 141WB

135EB 136EB 137EB 138EB 139EB 140EB 141EB

STA 135+77, 11.0' RT MANHOLES 10-J-S MH-106.0

STA 135+77, 25.5' RT CATCH BASINS 2x3-H CB-106.5

STA 9+47, 14.2' LT CATCH BASINS 4-H-S CB-108.2

MH-108.0 STA 136+41, 11.0' RT MANHOLES 8-J-S

CB-108.3 STA 9+47, 14.3' RT CATCH BASINS 4-H-S

6-INCH PVC REQD SEE CONSTRUCTION DETAIL

CB-110.7 STA 138+34, 25.5' RT CATCH BASINS 2x3-H

MH-110.0 STA 138+24, 11.0' RT MANHOLES 8-J-S

CB-110.8 STA 138+24, 25.5' RT CATCH BASINS 2x3-H

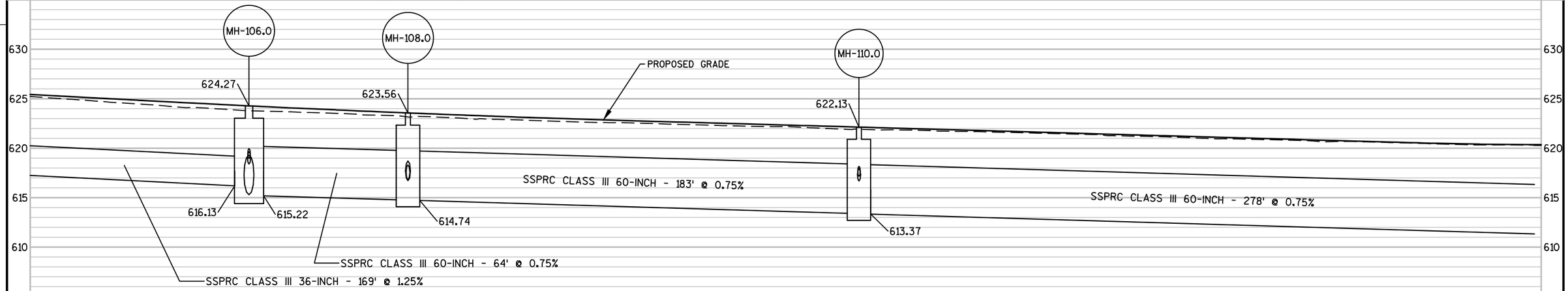
6-INCH PVC REQD SEE CONSTRUCTION DETAIL

STA 141+02, 11.0' RT MANHOLES 8-J-S MH-112.0

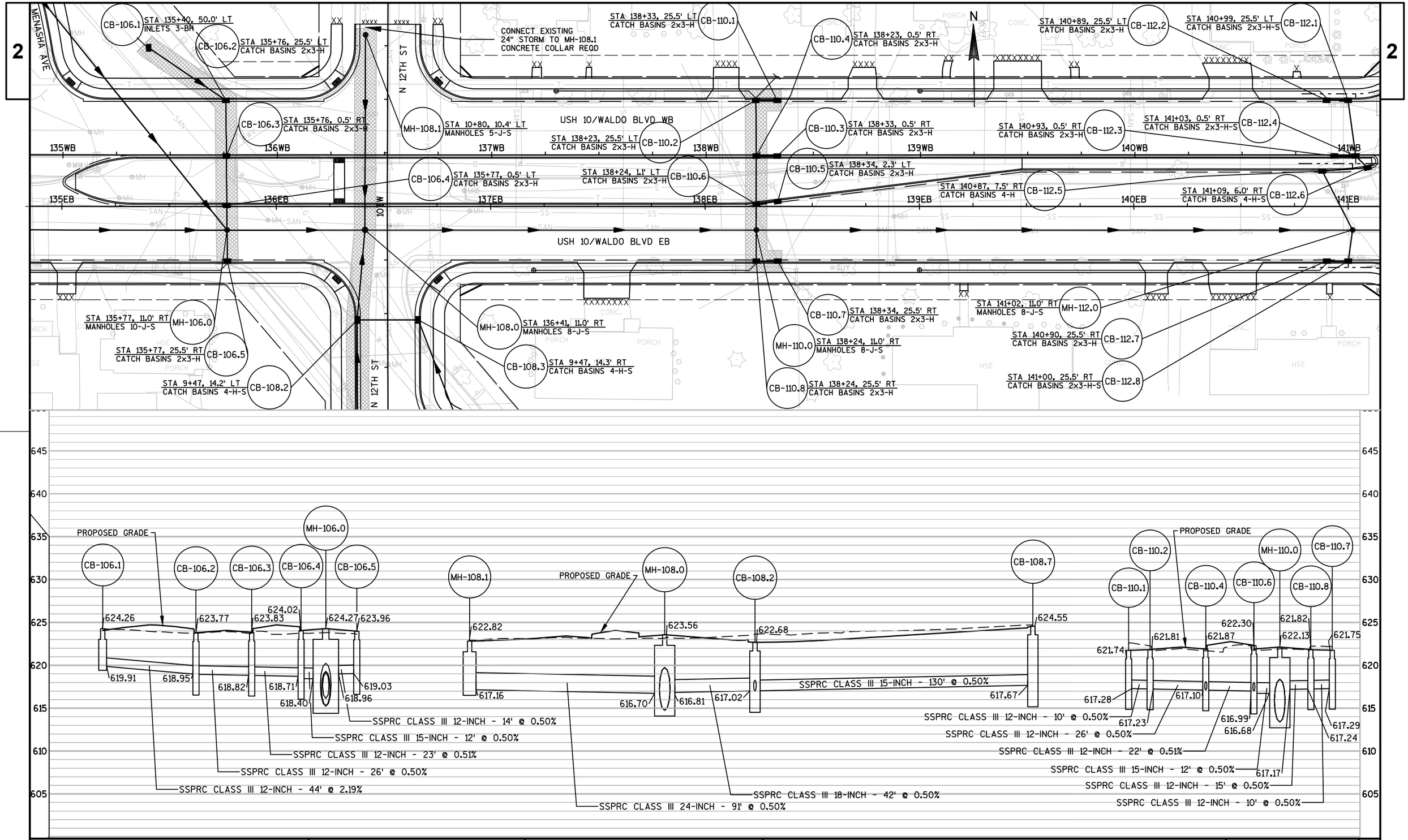
STA 140+90, 25.5' RT CATCH BASINS 2x3-H CB-112.7

STA 141+00, 25.5' RT CATCH BASINS 2x3-H-S CB-112.8

PIPE UNDERDRAIN 6-INCH PVC REQD SEE CONSTRUCTION DETAIL



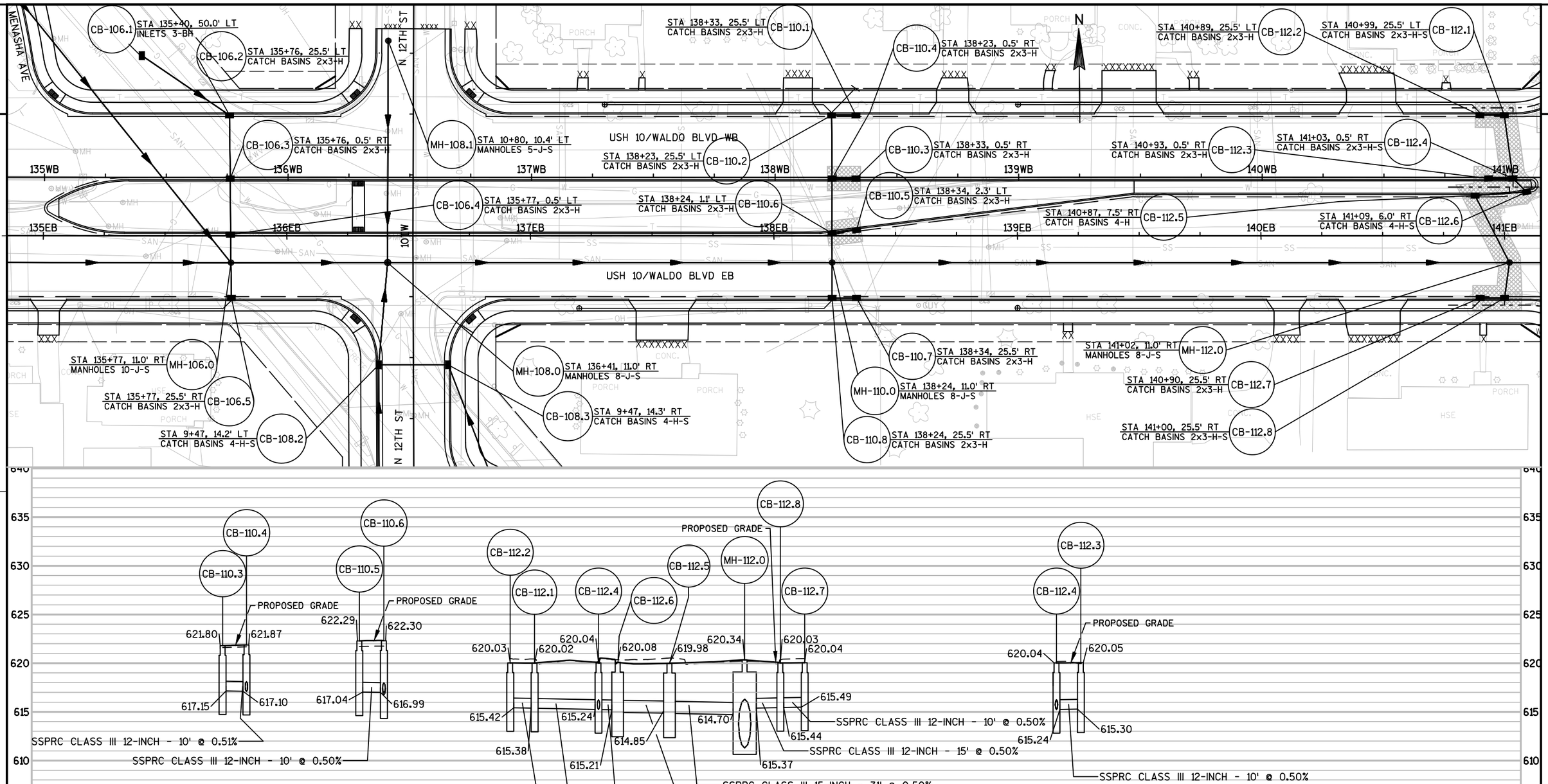
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 172	E



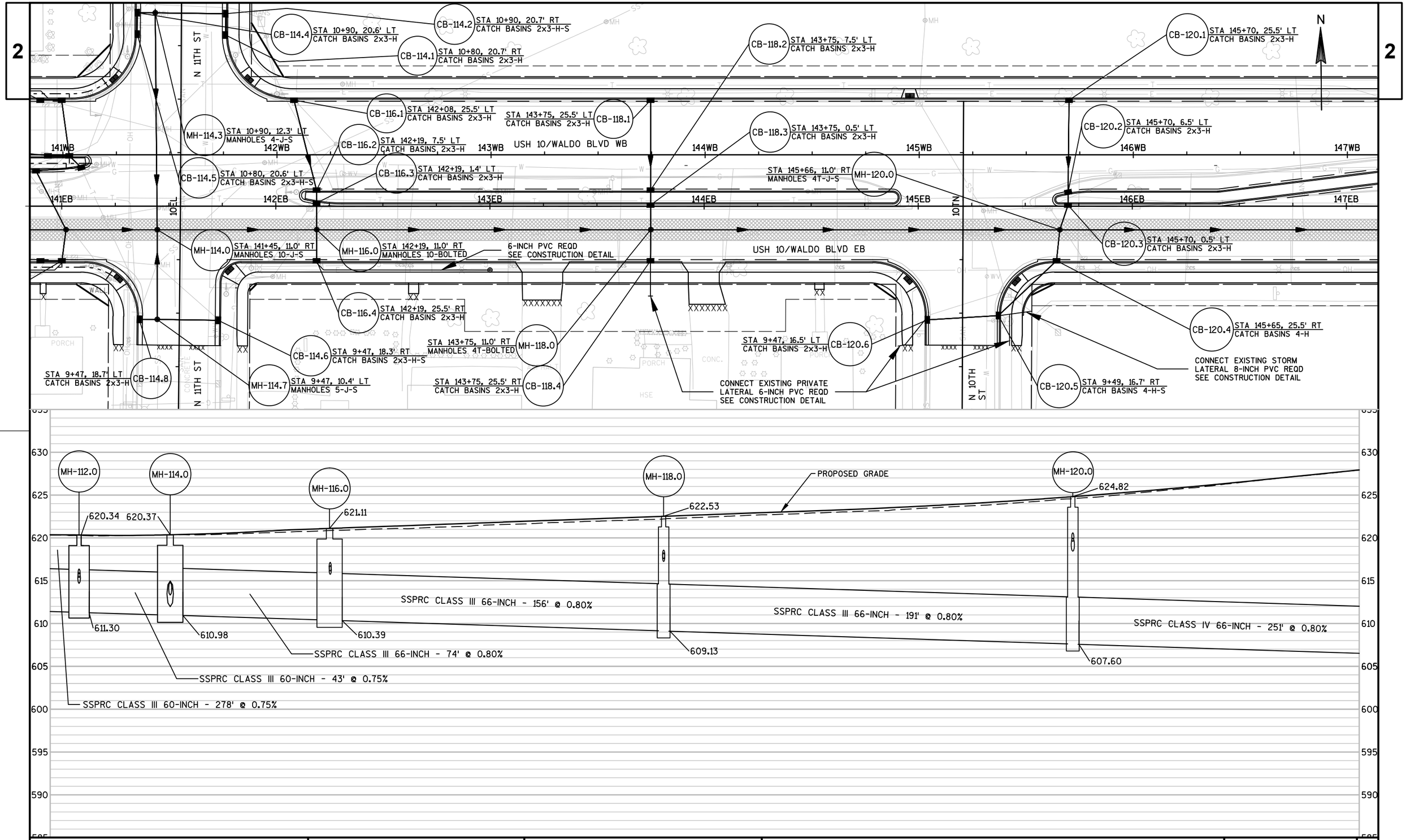
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 173	E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\STORM SEWER\15003771_022500_SS.DWG PLOT DATE : 8/24/2018 10:38 AM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 41



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 174	E



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 175	E

CONNECT EXISTING 12" STORM TO MH-114.3 CONCRETE COLLAR REQD

CB-114.4 STA 10+90, 20.6' LT CATCH BASINS 2x3-H

CB-114.2 STA 10+90, 20.7' RT CATCH BASINS 2x3-H-S

CB-114.1 STA 10+80, 20.7' RT CATCH BASINS 2x3-H

CB-116.1 STA 142+08, 25.5' LT CATCH BASINS 2x3-H

MH-114.3 STA 10+90, 12.3' LT MANHOLES 4-J-S

CB-116.2 STA 142+19, 7.5' LT CATCH BASINS, 2x3-H

CB-114.5 STA 10+80, 20.6' LT CATCH BASINS 2x3-H-S

CB-116.3 STA 142+19, 1.4' LT CATCH BASINS 2x3-H

MH-114.0 STA 141+45, 11.0' RT MANHOLES 10-J-S

MH-116.0 STA 142+19, 11.0' RT MANHOLES 10-BOLTED

CONNECT EXISTING 36" STORM TO MH-114.7 CONCRETE COLLAR REQD

CB-116.4 STA 142+19, 25.5' RT CATCH BASINS 2x3-H

CB-114.6 STA 9+47, 18.3' RT CATCH BASINS 2x3-H-S

STA 9+47, 18.7' LT CATCH BASINS 2x3-H CB-114.8

MH-114.7 STA 9+47, 10.4' LT MANHOLES 5-J-S

STA 143+75, 11.0' RT MANHOLES 4T-BOLTED MH-118.0

STA 143+75, 25.5' RT CATCH BASINS 2x3-H CB-118.4

STA 143+75, 25.5' LT CATCH BASINS 2x3-H CB-118.1

CB-118.2 STA 143+75, 7.5' LT CATCH BASINS 2x3-H

CB-118.3 STA 143+75, 0.5' LT CATCH BASINS 2x3-H

STA 145+66, 11.0' RT MANHOLES 4T-J-S MH-120.0

STA 9+47, 16.5' LT CATCH BASINS 2x3-H CB-120.6

CB-120.1 STA 145+70, 25.5' LT CATCH BASINS 2x3-H

CB-120.2 STA 145+70, 6.5' LT CATCH BASINS 2x3-H

CB-120.3 STA 145+70, 0.5' LT CATCH BASINS 2x3-H

CB-120.4 STA 145+65, 25.5' RT CATCH BASINS 4-H

CB-120.5 STA 9+49, 16.7' RT CATCH BASINS 4-H-S

N 11TH ST

N 10TH ST

10 EL

10 TN

USH 10/WALDO BLVD WB

USH 10/WALDO BLVD EB

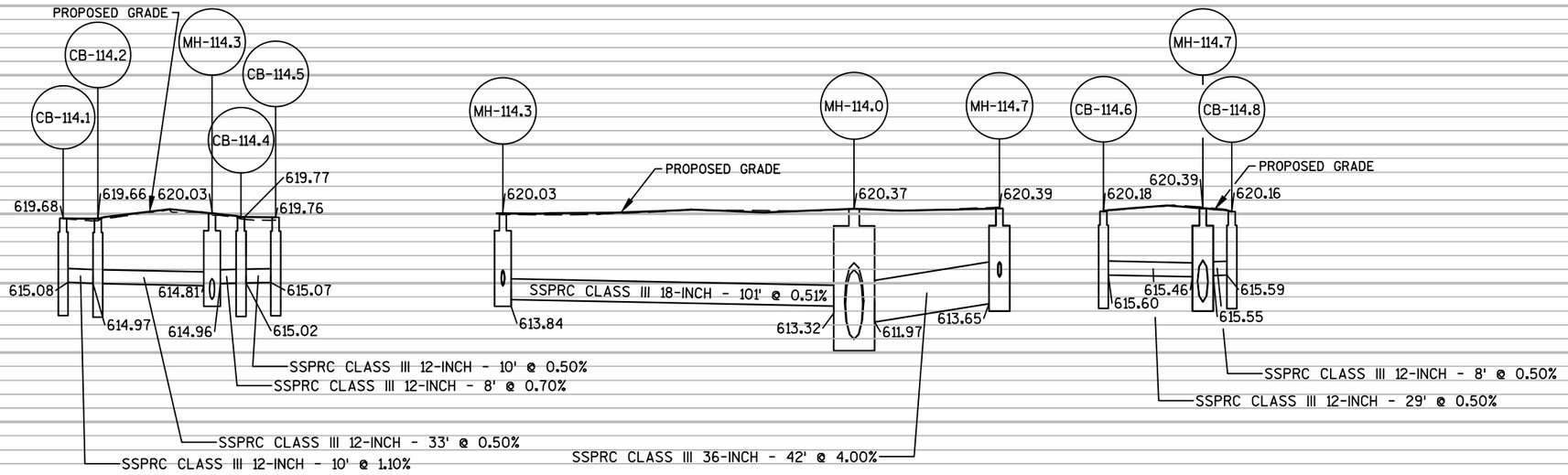
141WB 142WB 143WB 144WB 145WB 146WB 147WB

141EB 142EB 143EB 144EB 145EB 146EB 147EB

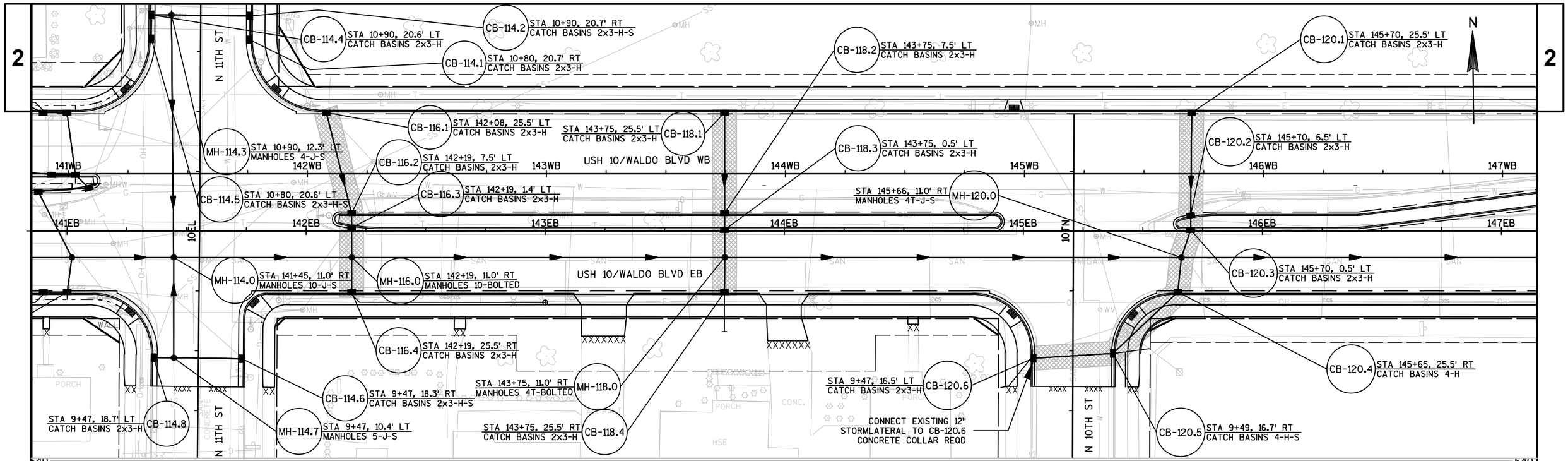
N

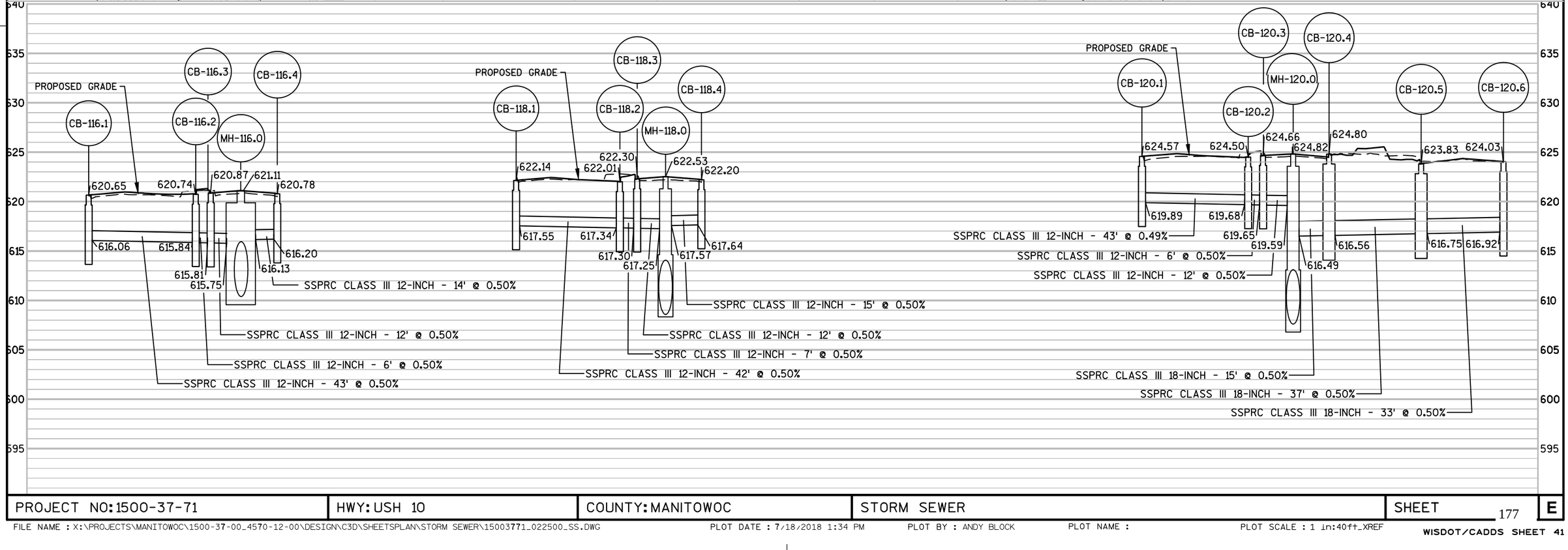
2

2



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 176	E





PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 177	E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\STORM SEWER\15003771_022500_SS.DWG PLOT DATE : 7/18/2018 1:34 PM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1 in:40ft_XREF

WISDOT/CADDS SHEET 41

2

MH-122.1 STA 10+75, 8.0' LT MANHOLES 5-J-S

STA 150+79, 0.5' RT CATCH BASINS 2x3-H CB-126.6

STA 150+79, 25.5' LT CATCH BASINS 2x3-H CB-126.5

6-INCH PVC REQD SEE CONSTRUCTION DETAIL

6-INCH PVC REQD SEE CONSTRUCTION DETAIL

N

N 9TH ST

N 8TH ST

USH 10/WALDO BLVD WB

STA 150+83, 11.5' LT CATCH BASINS 2x3-H CB-126.7

MH-126.4 STA 151+46, 25.8' LT STH 42/WALDO BLVD WB MANHOLES 4-J-S

147WB 148WB 149WB 150WB 151WB 152WB 153WB

MH-126.0 STA 151+45, 11.0' RT MANHOLES 4T-J-S

147EB 148EB 149EB 150EB 151EB 152EB 153EB

10NN

10ES

USH 10/WALDO BLVD EB

STH 42/WALDO BLVD EB

STA 148+17, 11.0' RT MANHOLES 10-J-S MH-122.0

STA 9+47, 14.6' LT CATCH BASINS 2x3-H CB-122.5

CB-122.6 STA 9+47, 14.6' RT CATCH BASINS 2x3-H

STA 150+83, 25.5' RT CATCH BASINS 2x3-H CB-126.8

STA 9+58, 13.5' LT CATCH BASINS 2x3-H-S CB-126.9

CB-126.10 STA 9+39, 23.6' RT CATCH BASINS 2x3-H

MH-122.0

629.68

PROPOSED GRADE

MH-126.0

623.85

635 630 625 620 615 610 605 600 595

SSPRC CLASS IV 66-INCH - 251' @ 0.80%

605.59

604.76

SSPRC CLASS IV 66-INCH - 328' @ 1.00%

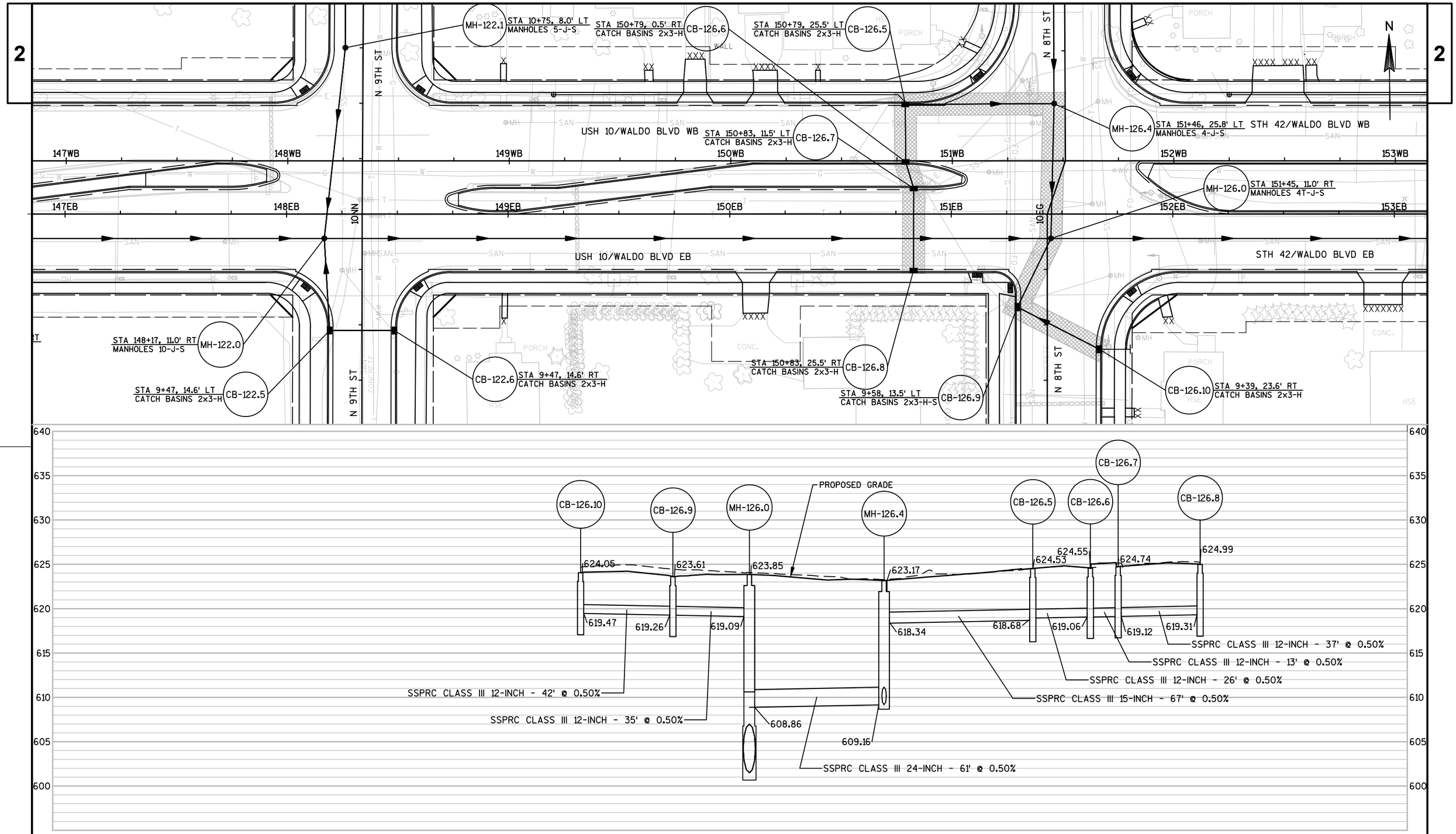
SSPRC CLASS IV 66-INCH - 225' @ 1.00%

601.48

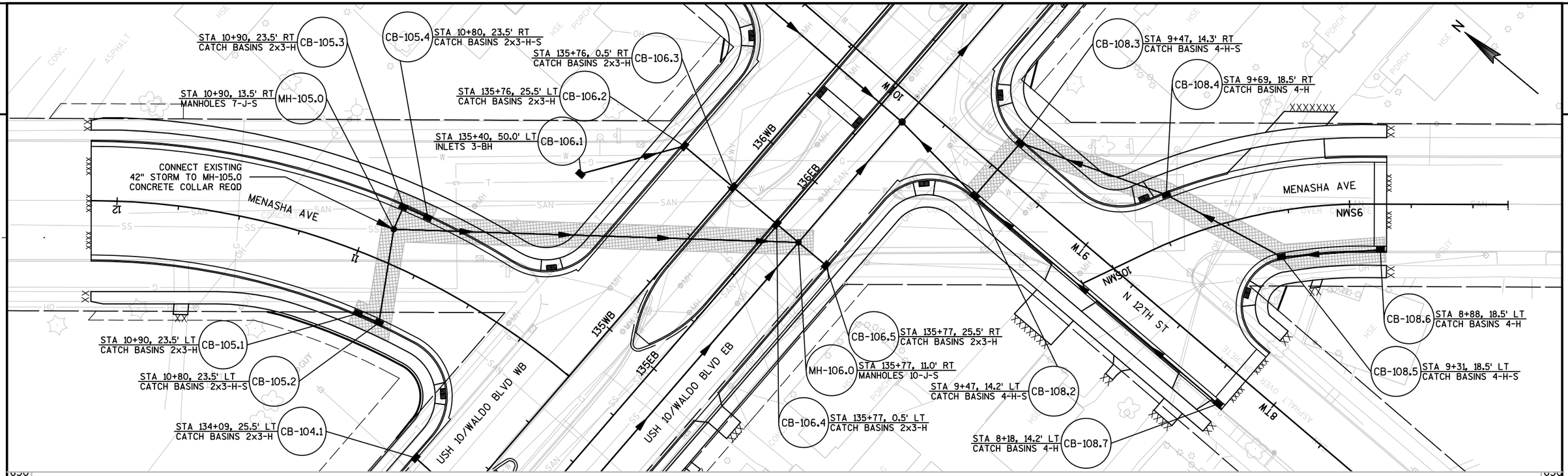
PROJECT NO:1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET	E

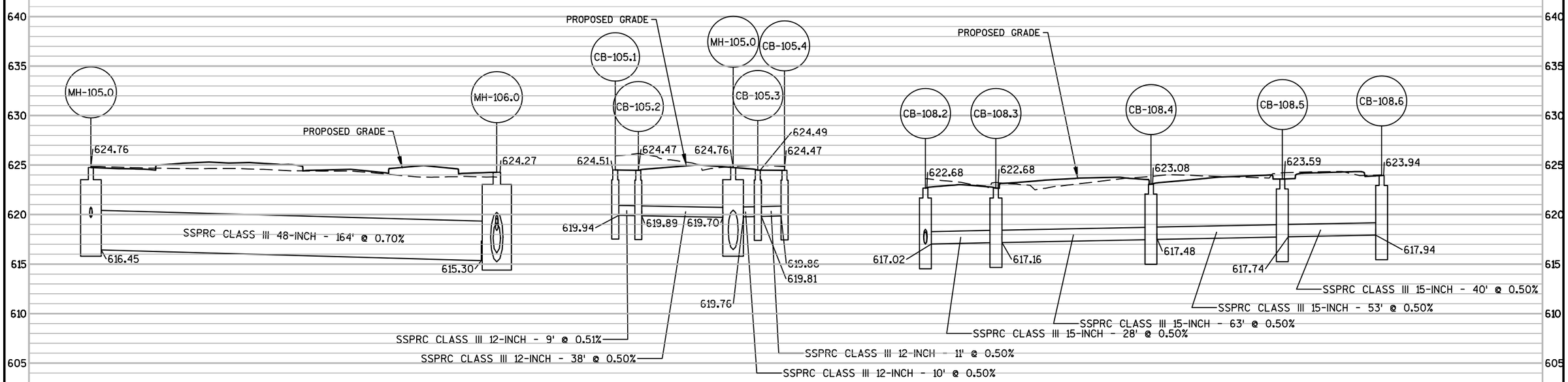
FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\STORM SEWER\15003771_022500_SS.DWG PLOT DATE : 7/16/2018 10:36 AM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1 in:40ft_XREF

WISDOT/CADDS SHEET 41



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 179	E





PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 180	E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\STORM SEWER\15003771_022500_SS.DWG PLOT DATE : 7/16/2018 10:37 AM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1 in:40ft_XREF
WISDOT/CADDS SHEET 41

2

N

CONNECT EXISTING 48" AND
24" STORM TO MH-122.2
CONCRETE COLLARS REQD

9NN | 10NN | 11NN | 12NN

N 9TH ST | N 9TH ST

148EB | 148WB | 149EB | 149WB

USH 10/WALDO BLVD EB | USH 10/WALDO BLVD WB

STA 9+47, 14.6' LT
CATCH BASINS 2x3-H
CB-122.5

STA 9+47, 14.6' RT
CATCH BASINS 2x3-H
CB-122.6

STA 148+17, 11.0' RT
MANHOLES 10-J-S
MH-122.0

MH-122.1
STA 10+75, 8.0' LT
MANHOLES 5-J-S

STA 12+61, 8.0' LT
MANHOLES 8-J-S
MH-122.2

CB-122.4
STA 12+67, 13.9' LT
INLETS 2x3-H-S

CB-122.3
STA 12+67, 13.8' RT
INLETS 2x3-H-S

645 640 635 630 625 620 615 610 605 600

PROPOSED GRADE

CB-122.6 629.82 626.24
CB-122.5 629.83 626.10 625.10
MH-122.0 629.68 624.89 604.85
MH-122.1 629.32 605.71

SSPRC CLASS IV 12-INCH - 29' @ 0.50%
SSPRC CLASS III 12-INCH - 42' @ 0.50%
SSPRC CLASS III 30-INCH - 87' @ 1.00%
SSPRC CLASS III 30-INCH - 186' @ 1.00%

EXISTING GRADE

MH-122.2 626.51 607.57
CB-122.3 626.58 621.84
MH-122.2 626.51 621.73

EXISTING GRADE

CB-122.4 626.48 621.87
MH-122.2 626.51 621.83

SSPRC CLASS III 12-INCH - 23' @ 0.50%
SSPRC CLASS III 12-INCH - 9' @ 0.50%

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 181 E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\STORM SEWER\1500377 1_022500_SS.DWG
LAYOUT NAME - 022515
PLOT DATE : 8/27/2018 12:49 PM
PLOT BY : ANDY BLOCK
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41

STA 150+83, 25.5' RT
CATCH BASINS 2x3-H
CB-126.8

STA 150+83, 11.5' LT
CATCH BASINS 2x3-H
CB-126.7

CB-126.5 STA 150+79, 25.5' LT
CATCH BASINS 2x3-H

CB-126.6 STA 150+79, 0.5' RT
CATCH BASINS 2x3-H

12-INCH PVC PLACED ALONG CROWN OF EXISTING 54" STORM FROM EXISTING PRIVATE INLET (4" CAST IRON) AT STA. 12'EG'+67, 151' LT TO MH-126.2. CONNECT EXISTING PRIVATE LATERAL (12" CLAY) AT STA. 12'EG'+67, 33' LT

STA 12+61, 20.5' LT
CATCH BASINS 2x3-H
CB-126.1

CONNECT TO EXISTING 12" STORM CONCRETE COLLAR REQD

MH-126.2 STA 12+61, 5.0' LT
MANHOLES 4-J-S

MH-126.3 STA 12+76, 17.2' RT
MANHOLES 4-J-S

9EG
10EG
11EG
12EG

N 8TH ST
N 8TH ST

151EB
151WB
152EB
152WB

USH 10/WALDO BLVD EB
USH 10/WALDO BLVD WB

STA 9+58, 13.5' LT
CATCH BASINS 2x3-H-S
CB-126.9

STA 9+39, 23.6' RT
CATCH BASINS 2x3-H
CB-126.10

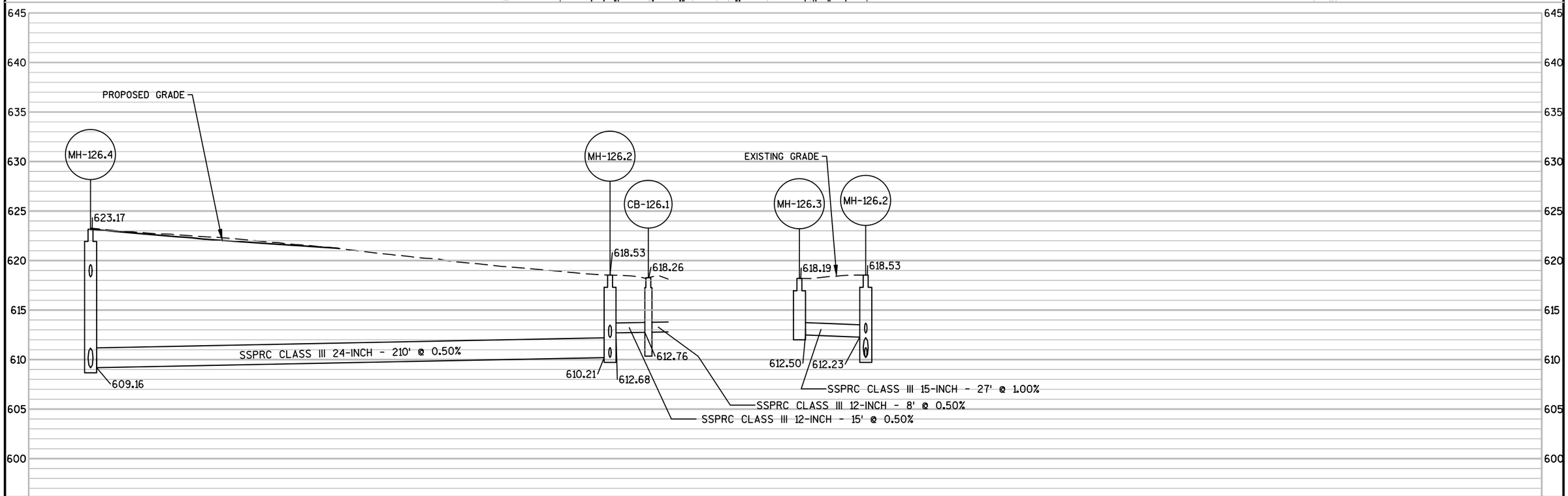
STA 151+45, 11.0' RT
MANHOLES 4T-J-S
MH-126.0

MH-126.4 STA 151+46, 25.8' LT
MANHOLES 4-J-S

ABANDONING SEWER TO CONSTRUCTION LIMITS EXISTING 15" STORM

CONNECT EXISTING 15" STORM TO MH-126.3 CONCRETE COLLAR REQD

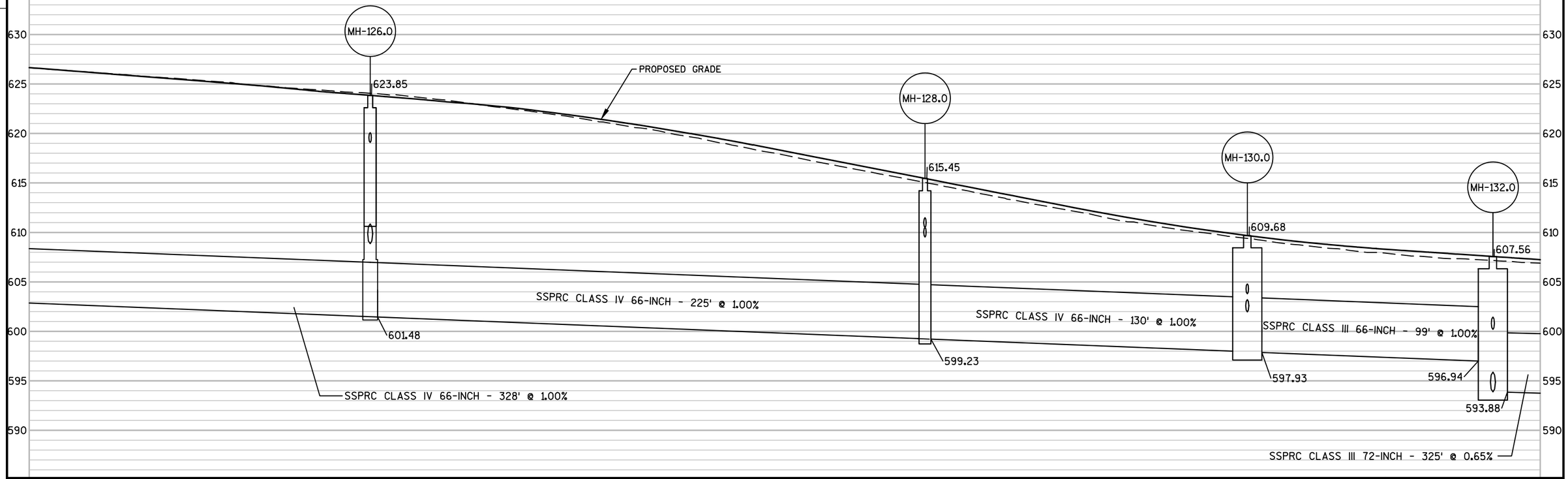
N



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	STORM SEWER	SHEET 182	E

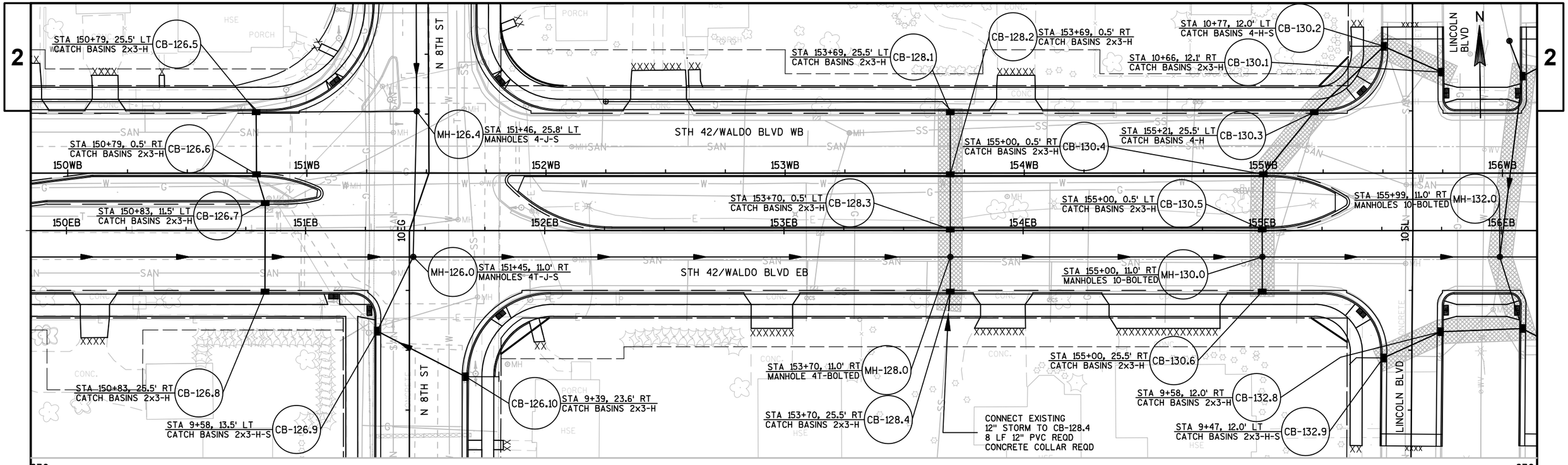
STA 150+79, 25.5' LT CATCH BASINS 2x3-H — CB-126.5
STA 150+79, 0.5' RT CATCH BASINS 2x3-H — CB-126.6
STA 150+83, 11.5' LT CATCH BASINS 2x3-H — CB-126.7
STA 150+83, 25.5' RT CATCH BASINS 2x3-H — CB-126.8
STA 9+58, 13.5' LT CATCH BASINS 2x3-H-S — CB-126.9
STA 9+39, 23.6' RT CATCH BASINS 2x3-H — CB-126.10
STA 151+46, 25.8' LT MANHOLES 4-J-S — MH-126.4
STA 151+45, 11.0' RT MANHOLES 4T-J-S — MH-126.0
6-INCH PVC REQD SEE CONSTRUCTION DETAIL
CONNECT EXISTING PRIVATE LATERAL TO CB-132.1 6-INCH PVC REQD SEE CONSTRUCTION DETAIL
STA 153+69, 25.5' LT CATCH BASINS 2x3-H — CB-128.1
STA 153+69, 0.5' RT CATCH BASINS 2x3-H — CB-128.2
STA 153+70, 0.5' LT CATCH BASINS 2x3-H — CB-128.3
STA 153+70, 25.5' RT CATCH BASINS 2x3-H — CB-128.4
STA 153+70, 11.0' RT MANHOLE 4T-BOLTED — MH-128.0
CONNECT EXISTING PRIVATE LATERAL TO CB-132.8 6-INCH PVC REQD SEE CONSTRUCTION DETAIL
STA 10+77, 12.0' LT CATCH BASINS 4-H-S — CB-130.2
STA 10+66, 12.1' RT CATCH BASINS 2x3-H — CB-130.1
STA 155+21, 25.5' LT CATCH BASINS 4-H — CB-130.3
STA 155+00, 0.5' RT CATCH BASINS 2x3-H — CB-130.4
STA 155+00, 0.5' LT CATCH BASINS 2x3-H — CB-130.5
STA 155+00, 25.5' RT CATCH BASINS 2x3-H — CB-130.6
STA 155+00, 11.0' RT MANHOLES 10-BOLTED — MH-130.0
STA 9+58, 12.0' RT CATCH BASINS 2x3-H — CB-132.8
STA 9+47, 12.0' LT CATCH BASINS 2x3-H-S — CB-132.9
STA 155+99, 11.0' RT MANHOLES 10-BOLTED — MH-132.0

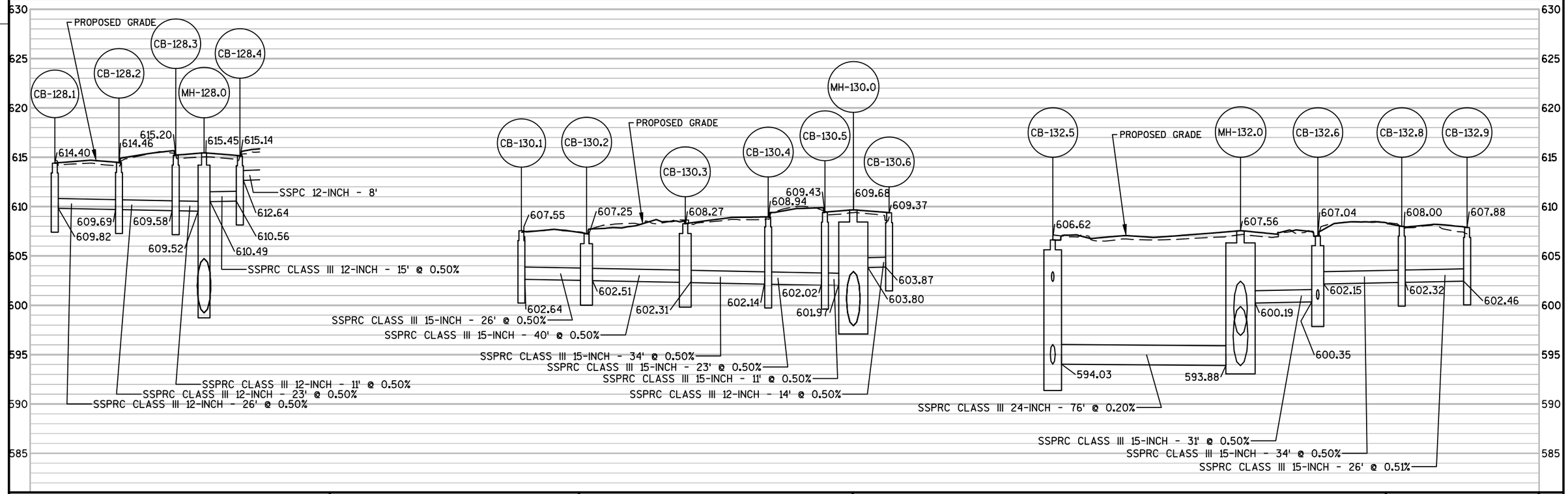
N 8TH ST
LINCOLN BLVD
STH 42/WALDO BLVD WB
STH 42/WALDO BLVD EB
150WB 151WB 152WB 153WB 154WB 155WB 156WB
150EB 151EB 152EB 153EB 154EB 155EB 156EB
10FG
10SLN



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	STORM SEWER	SHEET	E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\STORM SEWER\45701271_022500_SS.DWG PLOT DATE : 7/24/2018 2:32 PM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1" = 40'_XREF





PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	STORM SEWER	SHEET 184	E

MH-132.2 STA 10+79, 17.5' LT MANHOLES 8-J-S

CB-132.4 STA 10+77, 12.1' RT CATCH BASINS 2x3-H

CONNECT EXISTING PRIVATE LATERAL 6-INCH PVC REQDSEE CONSTRUCTION DETAIL

6-INCH PVC REQD SEE CONSTRUCTION DETAIL

STA 159+43, 25.5' LT CATCH BASINS 4-H CB-134.4

STA 10+66, 16.1' LT CATCH BASINS 4-H-S CB-134.3

STA 10+72, 8.8' LT MANHOLES 4-J-S MH-134.2

CONNECT EXISTING PRIVATE LATERAL 6-INCH PVC REQD SEE CONSTRUCTION DETAIL

6-INCH PVC REQD SEE CONSTRUCTION DETAIL

CB-134.1 STA 10+76, 14.5' RT CATCH BASINS 2x3-H

CB-132.5 STA 10+65, 12.0' LT CATCH BASINS 6-H-S

STH 42/WALDO BLVD WB

STA 159+19, 0.5' RT CATCH BASINS 2x3-H CB-134.5

156WB 157WB 158WB 159WB 160WB 161WB 162WB

132.0

CB-132.6 STA 9+59, 12.0' LT CATCH BASINS 4-H-S

STA 159+20, 0.5' LT CATCH BASINS 2x3-H CB-134.6

156EB 157EB 158EB 159EB 160EB 161EB 162EB

STH 42/WALDO BLVD EB

STA 159+24, 11.0' RT MANHOLES 10-BOLTED MH-134.0

CONNECT EXISTING PRIVATE LATERAL 6-INCH PVC REQD SEE CONSTRUCTION DETAIL

CB-132.7 STA 9+47, 12.0' RT CATCH BASINS 2x3-H

6-INCH PVC REQD SEE CONSTRUCTION DETAIL

STA 159+24, 25.5' RT CATCH BASINS 2x3-H CB-134.7

STA 9+49, 14.5' LT CATCH BASINS 2x3-DW CB-134.8

CB-134.9 STA 9+46, 14.5' RT CATCH BASINS 2x3-H

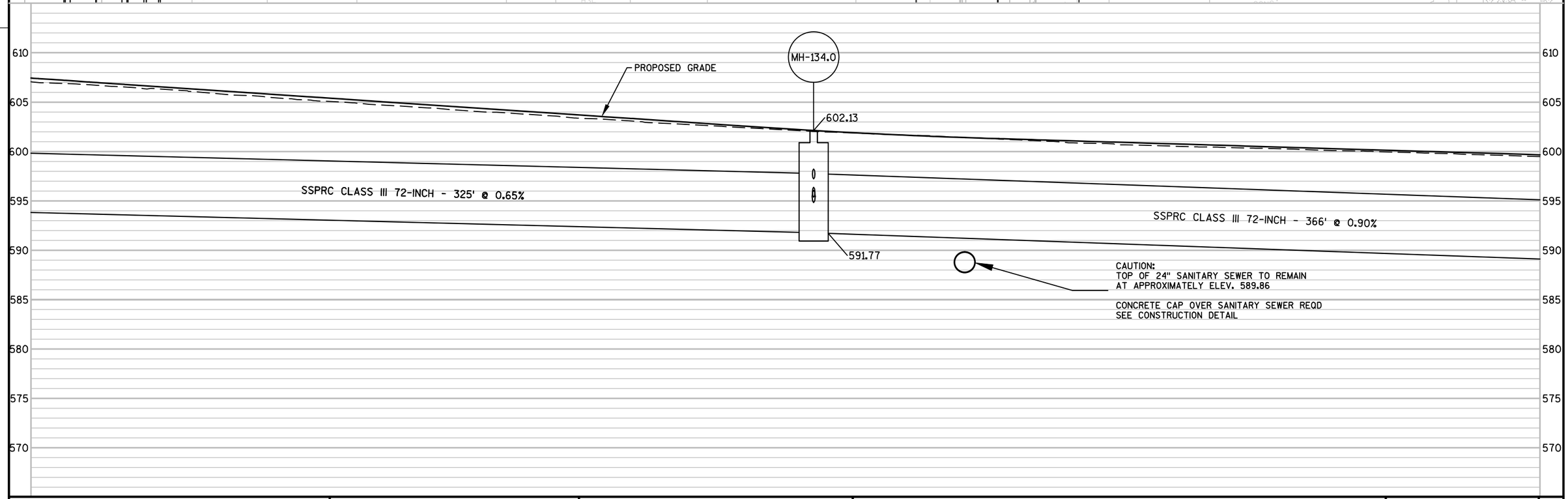
6-INCH PVC REQD SEE CONSTRUCTION DETAIL

CONNECT EXISTING PRIVATE LATERAL 6-INCH PVC REQD SEE CONSTRUCTION DETAIL

LINCOLN BLVD 11NL 10NL 10SX 11SX N 6TH ST

CATTLE PASS 10'X130'

N



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	STORM SEWER	SHEET 185	E

CONNECT EXISTING 60" STORM TO MH-132.2 CONCRETE COLLAR REQD

MH-132.2 STA 10+79, 17.5' LT MANHOLES 8-J-S

CB-132.4 STA 10+77, 12.1' RT CATCH BASINS 2x3-H

CB-132.5 STA 10+65, 12.0' LT CATCH BASINS 6-H-S

STA 159+43, 25.5' LT CATCH BASINS 4-H CB-134.4

STA 10+72, 8.8' LT MANHOLES 4-J-S MH-134.2

STA 10+66, 16.1' LT CATCH BASINS 4-H-S CB-134.3

CONNECT EXISTING 12" STORM TO MH-134.2 CONCRETE COLLAR REQD

CB-134.1 STA 10+76, 14.5' RT CATCH BASINS 2x3-H

STA 159+19, 0.5' RT CATCH BASINS 2x3-H CB-134.5

STH 42/WALDO BLVD WB

STH 42/WALDO BLVD EB

CB-132.6 STA 9+59, 12.0' LT CATCH BASINS 4-H-S

STA 159+20, 0.5' LT CATCH BASINS 2x3-H CB-134.6

STA 159+24, 11.0' RT MANHOLES 10-BOLTED MH-134.0

STA 159+24, 25.5' RT CATCH BASINS 2x3-H CB-134.7

STA 9+49, 14.5' LT CATCH BASINS 2x3-DW CB-134.8

CB-134.9 STA 9+46, 14.5' RT CATCH BASINS 2x3-H

CONNECT EXISTING 6" STORM TO CB-134.8 6 LF 6" PVC REQD CONCRETE COLLAR REQD

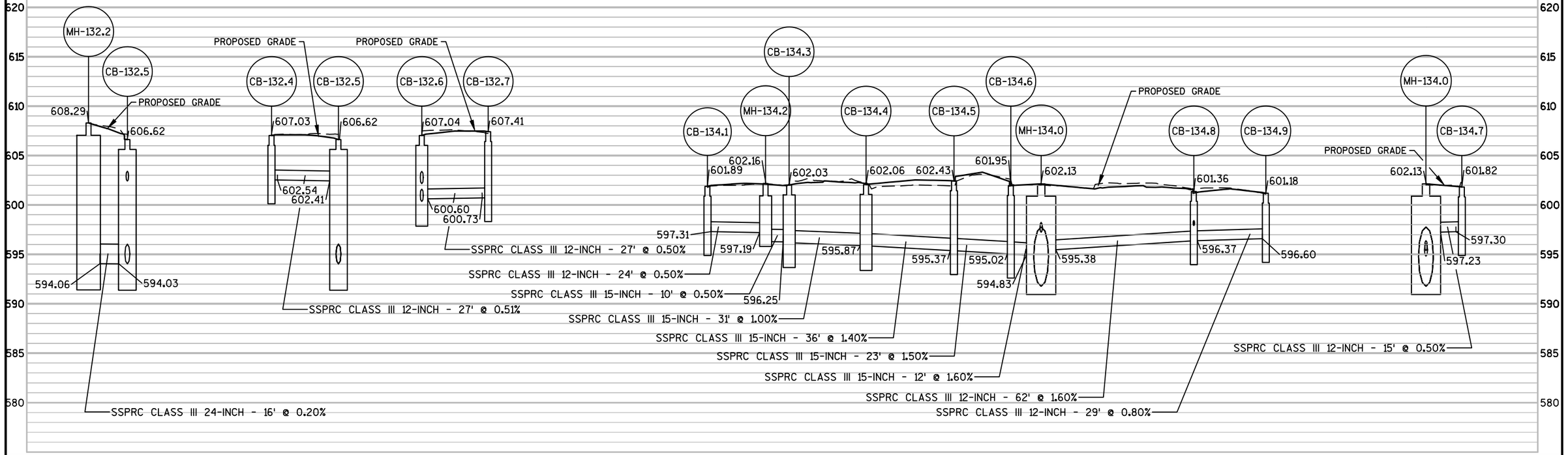
CB-132.7 STA 9+47, 12.0' RT CATCH BASINS 2x3-H

11NL 10NL 11SX 10SX N 6TH ST LINCOLN BLVD

156WB 157WB 158WB 159WB 160WB 161WB 162WB

156EB 157EB 158EB 159EB 160EB 161EB 162EB

CATTLE PASS 10'X130'



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	STORM SEWER	SHEET 186	E

6-INCH PVC REQD
SEE CONSTRUCTION DETAIL

EXISTING STORM SEWER STRUCTURES TO
REMAIN ADJUSTING INLETS - 2 EA REQD

6-INCH PVC REQD
SEE CONSTRUCTION DETAIL

CB-138.1 STA 166+00, 25.5' LT
CATCH BASINS 2x3-H

N 5TH ST

CB-136.3 STA 163+07, 25.5' LT
CATCH BASINS 4-H

STH 42/WALDO BLVD WB

STA 162+90, 0.5' RT
CATCH BASINS 2x3-H CB-136.4

CB-138.2 STA 166+00, 0.5' RT
CATCH BASINS 2x3-H

162WB 163WB 164WB 165WB 166WB 167WB 168WB

STA 162+90, 0.5' LT
CATCH BASINS 2x3-H CB-136.5

STA 166+00, 0.5' LT
CATCH BASINS 2x3-H CB-138.3

MH-138.0 STA 166+00, 11.0' RT
MANHOLES 10-BOLTED

162EB 163EB 164EB 165EB 166EB 167EB 168EB

STH 42/WALDO BLVD EB

STA 162+90, 11.0' RT
MANHOLES 10-BOLTED MH-136.0

CB-138.4 STA 166+00, 25.5' RT
CATCH BASINS 2x3-H

CB-136.6 STA 162+90, 25.5' RT
CATCH BASINS 2x3-H

6-INCH PVC REQD
SEE CONSTRUCTION DETAIL

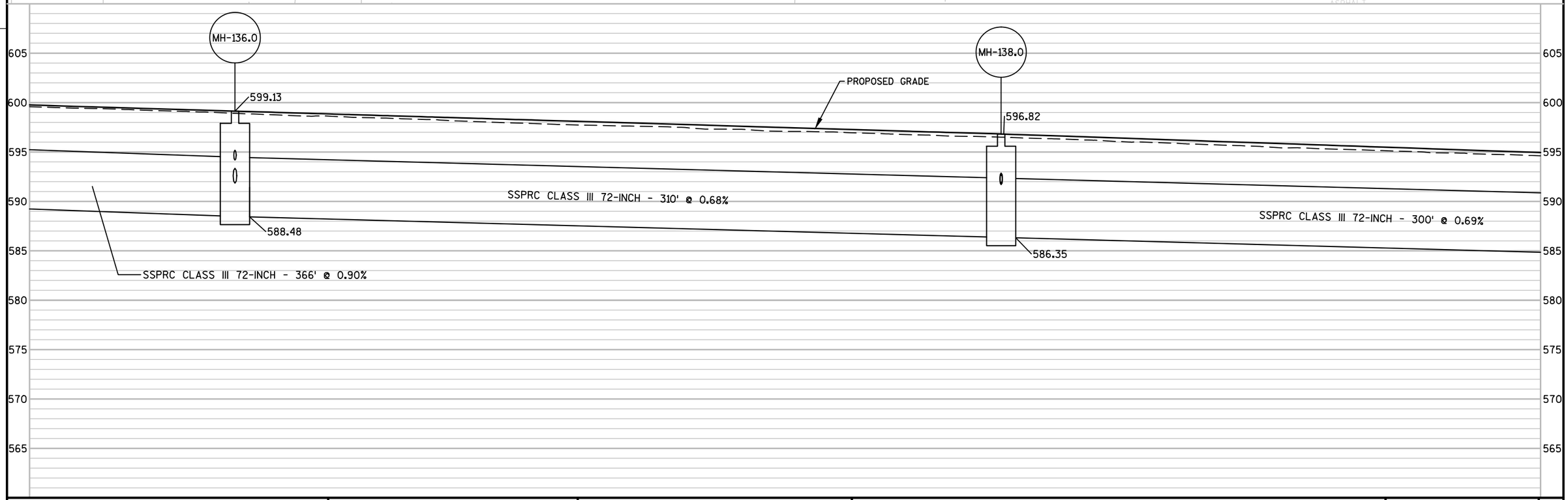
CONNECT EXISTING PRIVATE
LATERALS 6-INCH PVC REQD
STA. 165+05 & STA. 166+00
SEE CONSTRUCTION DETAIL
PLACE MINI STORM MAIN BELOW
SIDEWALK

6-INCH PVC REQD
CONNECT TO
EXISTING INLET

PIPE UNDERDRAIN
6-INCH REQD
SEE CONSTRUCTION DETAIL

CONNECT EXISTING
PRIVATE LATERAL
6-INCH PVC REQD
SEE CONSTRUCTION
DETAIL

N



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	STORM SEWER	SHEET	E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\STORM SEWER\45701271_022500_SS.DWG PLOT DATE : 7/24/2018 2:34 PM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 41

CONNECT STORM SEWER TO EXISTING STORM SEWER STRUCTURE TO REMAIN

CB-136.3 STA 163+07, 25.5' LT CATCH BASINS 4-H

CB-136.4 STA 162+90, 0.5' RT CATCH BASINS 2x3-H

CB-136.5 STA 162+90, 0.5' LT CATCH BASINS 2x3-H

MH-136.0 STA 162+90, 11.0' RT MANHOLES 10-BOLTED

CB-136.6 STA 162+90, 25.5' RT CATCH BASINS 2x3-H

CB-138.1 STA 166+00, 25.5' LT CATCH BASINS 2x3-H

CB-138.2 STA 166+00, 0.5' RT CATCH BASINS 2x3-H

CB-138.3 STA 166+00, 0.5' LT CATCH BASINS 2x3-H

MH-138.0 STA 166+00, 11.0' RT MANHOLES 10-BOLTED

CB-138.4 STA 166+00, 25.5' RT CATCH BASINS 2x3-H

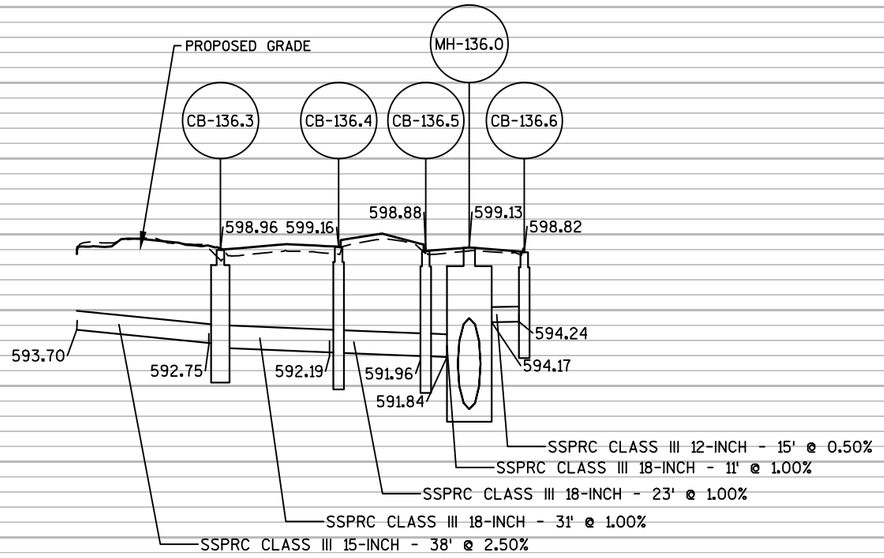
N 5TH ST

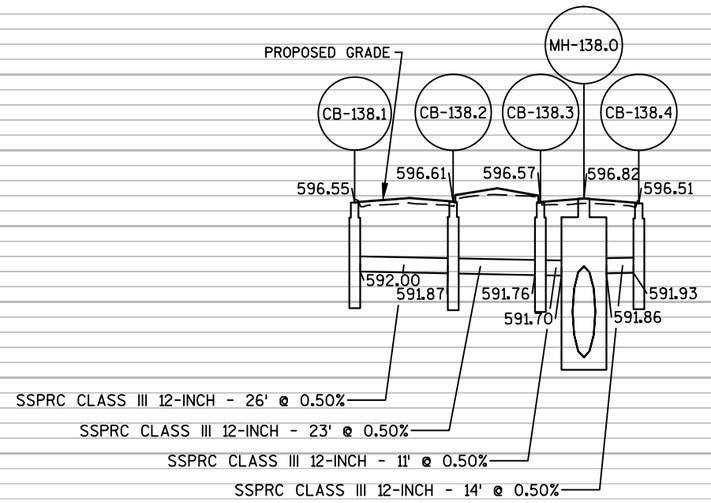
STH 42/WALDO BLVD WB

STH 42/WALDO BLVD EB

162WB 163WB 164WB 165WB 166WB 167WB 168WB

162EB 163EB 164EB 165EB 166EB 167EB 168EB





625 620 615 610 605 600 595 590 585 580

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	STORM SEWER	SHEET 188	E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\STORM SEWER\45701271_022500_SS.DWG PLOT DATE : 7/24/2018 2:34 PM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 41

6-INCH PVC REQD
SEE CONSTRUCTION DETAIL

CB-140.1 STA 169+02, 25.5' LT
CATCH BASINS 2x3-H

CB-140.2 STA 169+00, 0.5' RT
CATCH BASINS 2x3-H

STA 169+00, 0.5' LT
CATCH BASINS 2x3-H CB-140.3

MH-140.0 STA 169+00, 11.0' RT
MANHOLES 10-BOLTED

STA 169+00, 25.5' RT
CATCH BASINS 2x3-H CB-140.4

STH 42/WALDO BLVD WB

STH 42/WALDO BLVD EB

168WB 169WB 170WB 171WB

168EB 169EB 170EB 171EB

CONNECT EXISTING PRIVATE
LATERAL 6-INCH PVC REQD
SEE CONSTRUCTION DETAIL

CB-142.1 STA 172+00, 25.5' LT
CATCH BASINS 2x3-H

CB-142.2 STA 172+00, 0.5' RT
CATCH BASINS 2x3-H

STA 172+00, 0.5' LT
CATCH BASINS 2x3-H CB-142.3

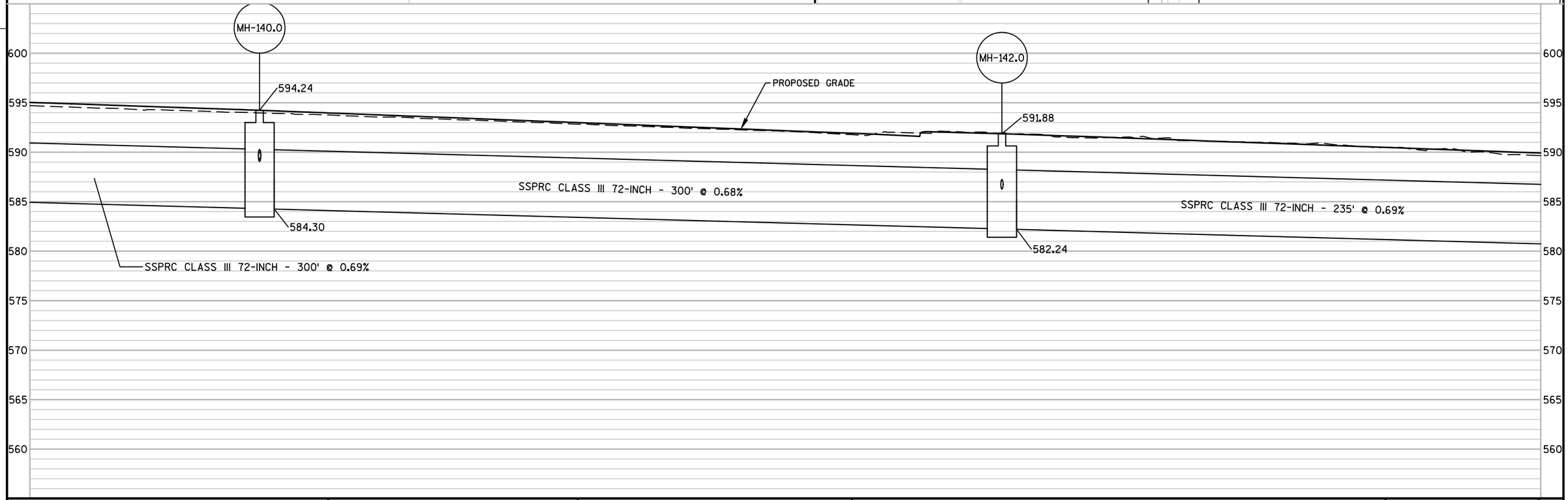
172WB 173WB 174WB

172EB 173EB 174EB

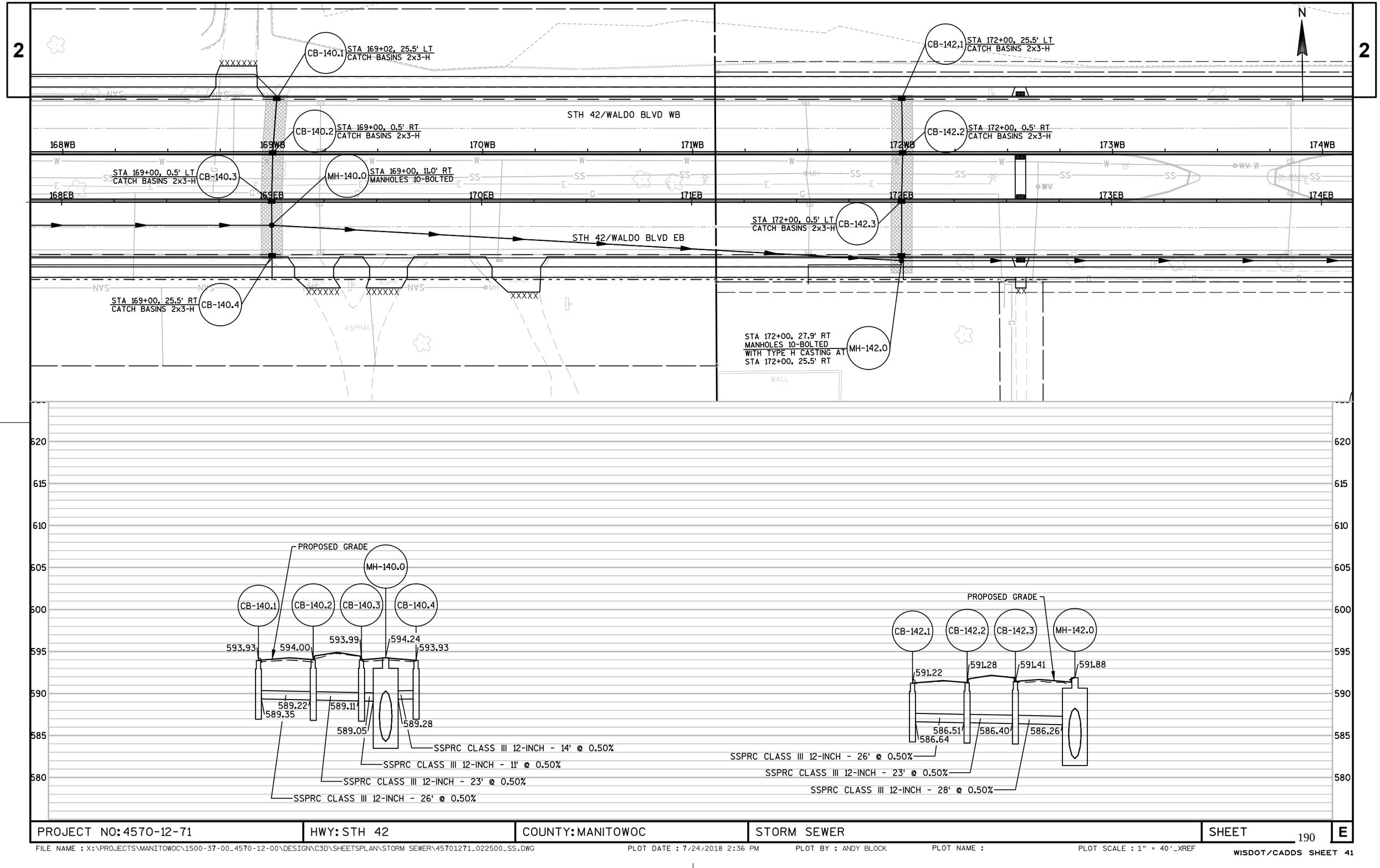
STA 172+00, 27.9' RT
MANHOLES 10-BOLTED
WITH TYPE H CASTING AT
STA 172+00, 25.5' RT
MH-142.0

PIPE UNDERDRAIN
6-INCH REQD
SEE CONSTRUCTION DETAIL

N



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	STORM SEWER	SHEET 189	E



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	STORM SEWER	SHEET 190	E

2

N

CB-150.1 STA 174+99, 25.5' LT CATCH BASINS 2x3-H

CB-150.2 STA 175+00, 0.5' RT CATCH BASINS 2x3-H

STH 42/WALDO BLVD WB

CB-150.3 STA 175+00, 0.5' LT CATCH BASINS 2x3-H

STH 42/WALDO BLVD EB

CB-150.0 STA 175+00, 25.5' RT CATCH BASINS 5-H

OF-3A STA 174+92, 69.3' RT APRON ENDWALLS FOR CPRC 24-INCH

MH-144.0 STA 174+35, 27.9' RT MANHOLE SPECIAL 9.5x16-FEET WITH BOLTED COVER

OF-3 STA 174+70, 73.2' RT APRON ENDWALLS FOR CPRC H.E. 72x113-INCH

PIPE UNDERDRAIN 6-INCH REQD SEE CONSTRUCTION DETAIL

PIPE UNDERDRAIN 6-INCH REQD SEE CONSTRUCTION DETAIL

PIPE UNDERDRAIN 6-INCH REQD SEE CONSTRUCTION DETAIL

STA 177+87, 25.5' LT CATCH BASINS 2x3-H CB-152.2

CB-152.1 STA 177+97, 25.5' LT CATCH BASINS 2x3-H-S

STA 179+59, 25.5' LT CATCH BASINS 2x3-H CB-160.1

STA 177+87, 0.5' RT CATCH BASINS 2x3-H CB-152.4

CB-152.3 STA 177+97, 0.5' RT CATCH BASINS 2x3-H-S

STA 179+59, 0.5' RT CATCH BASINS 2x3-H CB-160.2

STA 179+60, 0.5' LT CATCH BASINS 4-H CB-160.3

STA 177+85, 0.5' LT CATCH BASINS 2x3-H CB-152.6

CB-152.5 STA 177+95, 0.5' LT CATCH BASINS 2x3-H-S

STA 179+60, 25.5' RT CATCH BASINS 2x3-H CB-160.4

STA 177+85, 25.5' RT CATCH BASINS 4-H CB-152.0

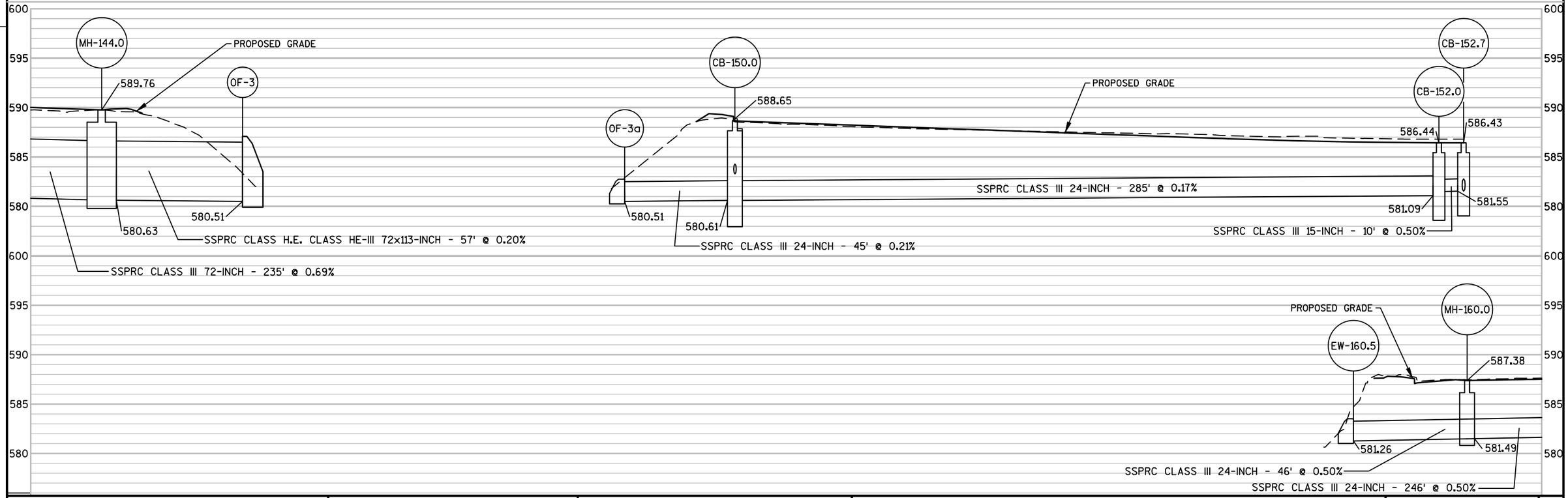
CB-152.7 STA 177+95, 25.5' RT CATCH BASINS 4-H-S

STA 179+82, 6.8' RT MANHOLES 5-J-S MH-160.0

STA 179+62, 48.4' RT APRON ENDWALLS FOR CPRC 24-INCH EW-160.5

174WB 175WB 176WB 177WB 178WB 179WB 180WB

174EB 175EB 176EB 177EB 178EB 179EB 180EB



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	STORM SEWER	SHEET	E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\STORM SEWER\45701271_022500_SS.DWG PLOT DATE : 7/24/2018 2:36 PM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1" = 40'_XREF

2

CB-150.1 STA 174+99, 25.5' LT CATCH BASINS 2x3-H

CB-150.2 STA 175+00, 0.5' RT CATCH BASINS 2x3-H

STH 42/WALDO BLVD WB

CB-150.3 STA 175+00, 0.5' LT CATCH BASINS 2x3-H

STH 42/WALDO BLVD EB

CB-150.0 STA 175+00, 25.5' RT CATCH BASINS 5-H

OF-3A STA 174+92, 69.3' RT APRON ENDWALLS FOR CPRC 24-INCH

MH-144.0 STA 174+35, 27.9' RT MANHOLE SPECIAL 9.5x16-FEET WITH BOLTED COVER

OF-3 STA 174+70, 73.2' RT APRON ENDWALLS FOR CPRC H.E. 72x113-INCH

STA 177+87, 25.5' LT CATCH BASINS 2x3-H CB-152.2

CB-152.1 STA 177+97, 25.5' LT CATCH BASINS 2x3-H-S

STA 179+59, 25.5' LT CATCH BASINS 2x3-H CB-160.1

STA 177+87, 0.5' RT CATCH BASINS 2x3-H CB-152.4

CB-152.3 STA 177+97, 0.5' RT CATCH BASINS 2x3-H-S

STA 179+59, 0.5' RT CATCH BASINS 2x3-H CB-160.2

STA 179+60, 0.5' LT CATCH BASINS 4-H CB-160.3

STA 177+85, 0.5' LT CATCH BASINS 2x3-H CB-152.6

CB-152.5 STA 177+95, 0.5' LT CATCH BASINS 2x3-H-S

STA 179+60, 25.5' RT CATCH BASINS 2x3-H CB-160.4

STA 177+85, 25.5' RT CATCH BASINS 4-H CB-152.0

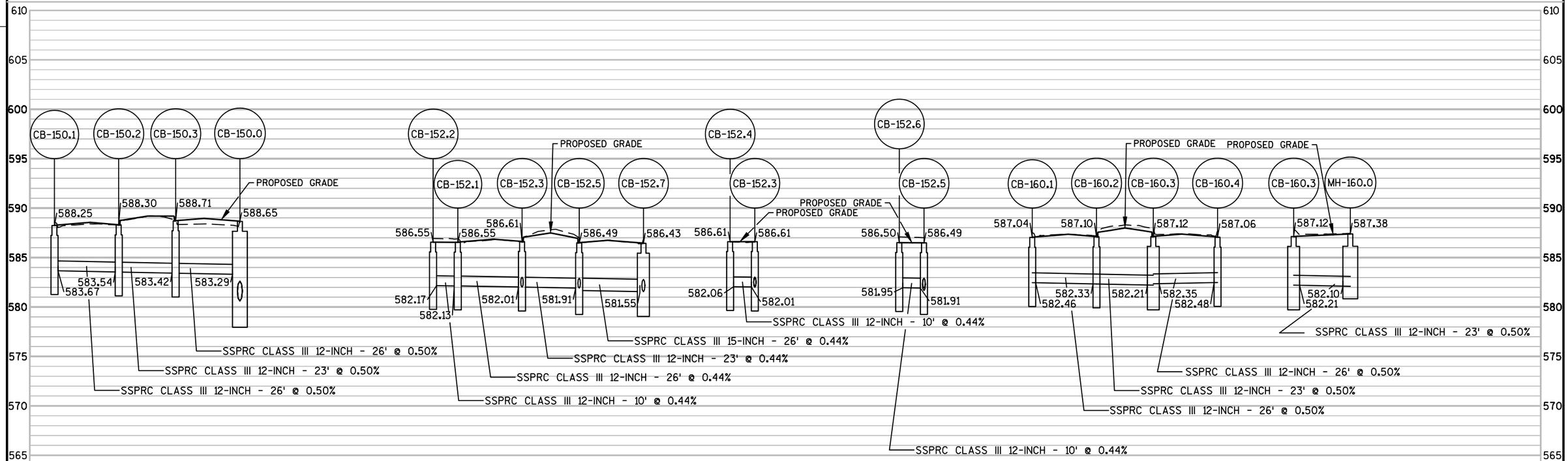
CB-152.7 STA 177+95, 25.5' RT CATCH BASINS 4-H-S

STA 179+82, 6.8' RT MANHOLES 5-J-S MH-160.0

STA 179+62, 48.4' RT APRON ENDWALLS FOR CPRC 24-INCH EW-160.5

174WB 175WB 176WB 177WB 178WB 179WB 180WB

174EB 175EB 176EB 177EB 178EB 179EB 180EB



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	STORM SEWER	SHEET	E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\STORM SEWER\45701271_022500_SS.DWG PLOT DATE : 7/24/2018 2:37 PM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1" = 40'_XREF

2

N

CB-162.1 STA 182+28, 25.5' LT
CATCH BASINS 2x3-H

CB-162.2 STA 182+28, 0.5' RT
CATCH BASINS 2x3-H

CB-162.3 STA 182+28, 0.5' LT
CATCH BASINS 2x3-H

MH-162.0 STA 182+28, 6.5' RT
MANHOLES 4-J-S

CB-162.4 STA 182+28, 25.5' RT
CATCH BASINS 2x3-H

EW-164.10 STA 184+89, 46.1' LT
APRON ENDWALLS FOR CPRC 18-INCH

CB-164.2 STA 184+89, 25.5' LT
CATCH BASINS 2x3-H

STA 184+89, 0.5' RT
CATCH BASINS 2x3-H
CB-164.3

CB-164.4 STA 184+89, 0.6' LT
CATCH BASINS 2x3-H

MH-164.0 STA 184+87, 6.7' RT
MANHOLES 5-J-S

CB-164.5 STA 184+87, 25.5' RT
CATCH BASINS 2x3-H

STH 42/WALDO BLVD WB

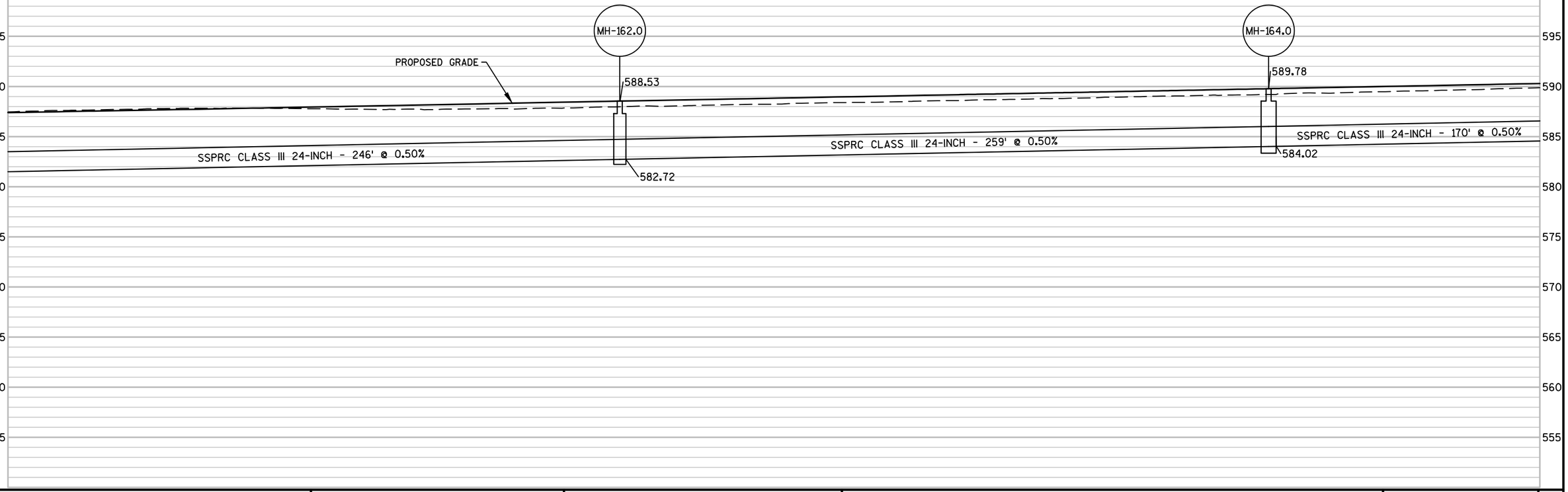
STH 42/WALDO BLVD EB

180WB 181WB 182WB 183WB 184WB 185WB 186WB

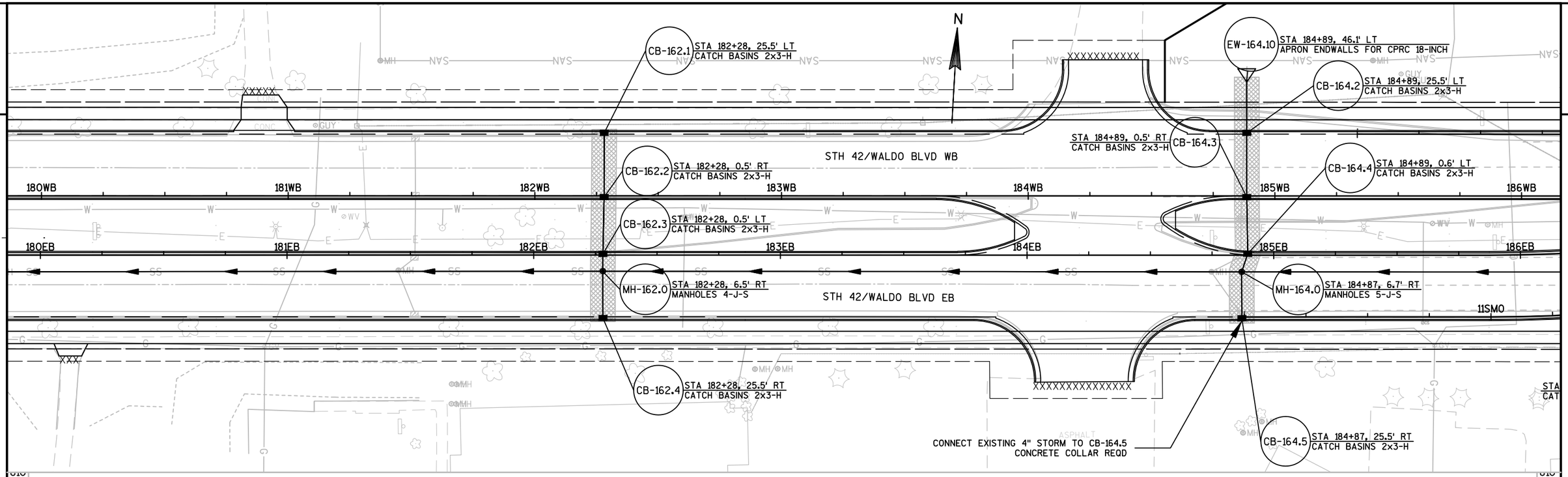
180EB 181EB 182EB 183EB 184EB 185EB 186EB

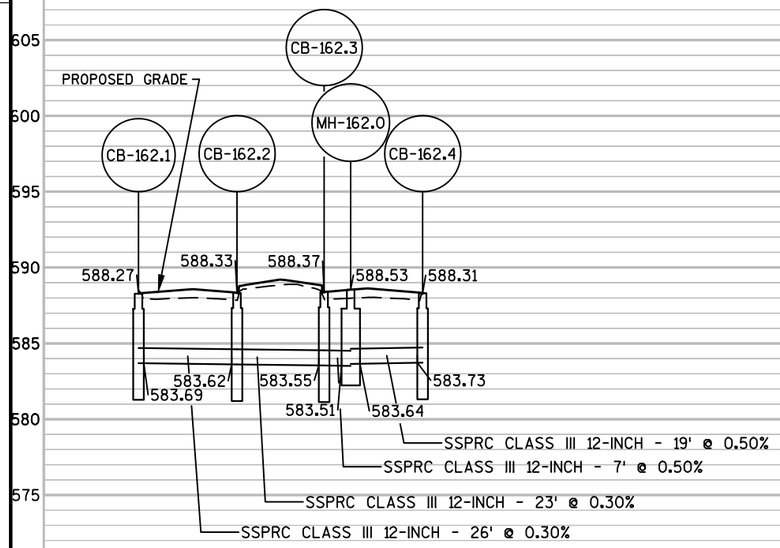
11SMO

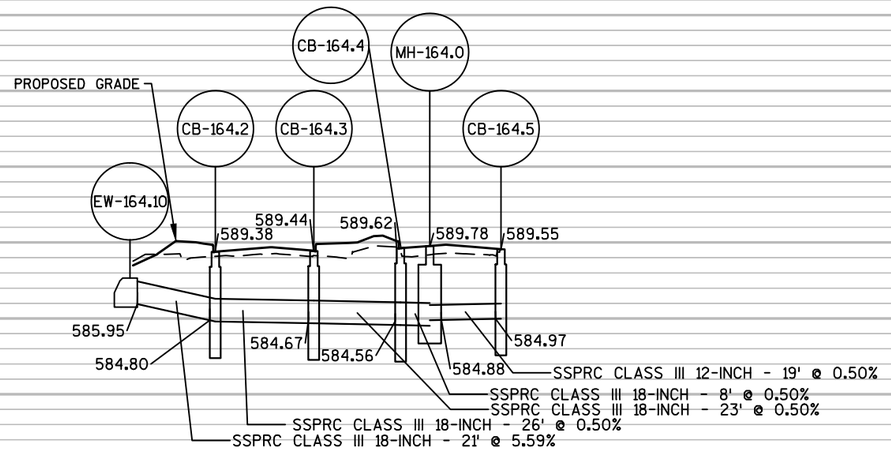
ASPHALT



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	STORM SEWER	SHEET 193	E

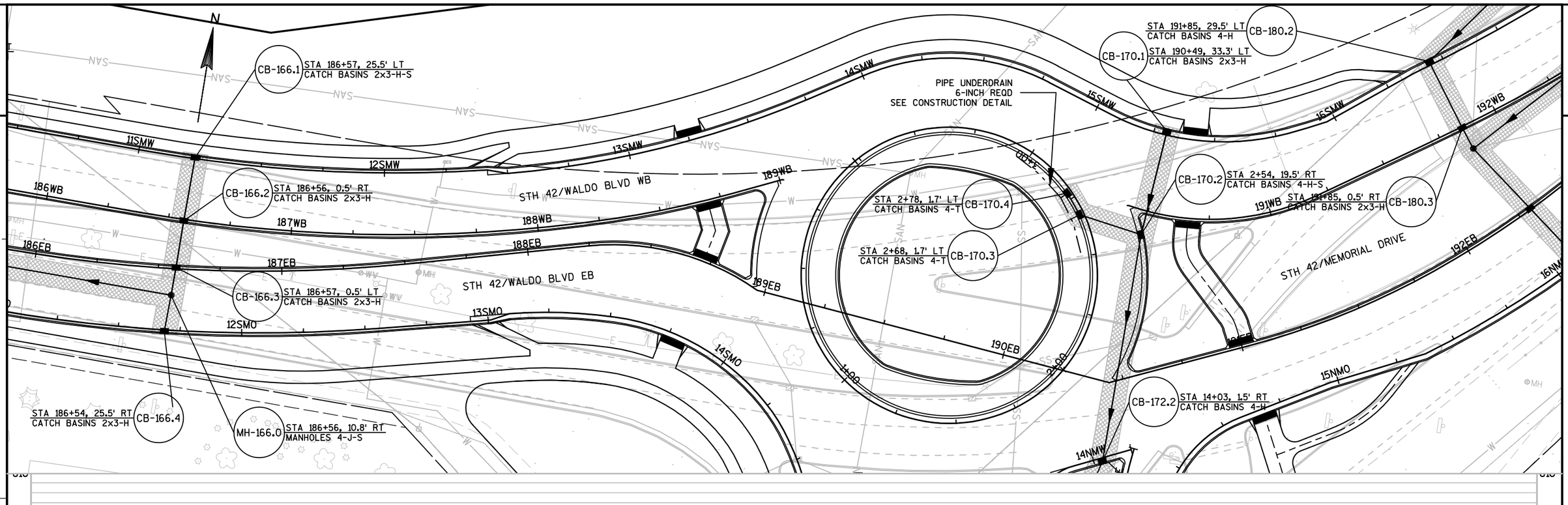


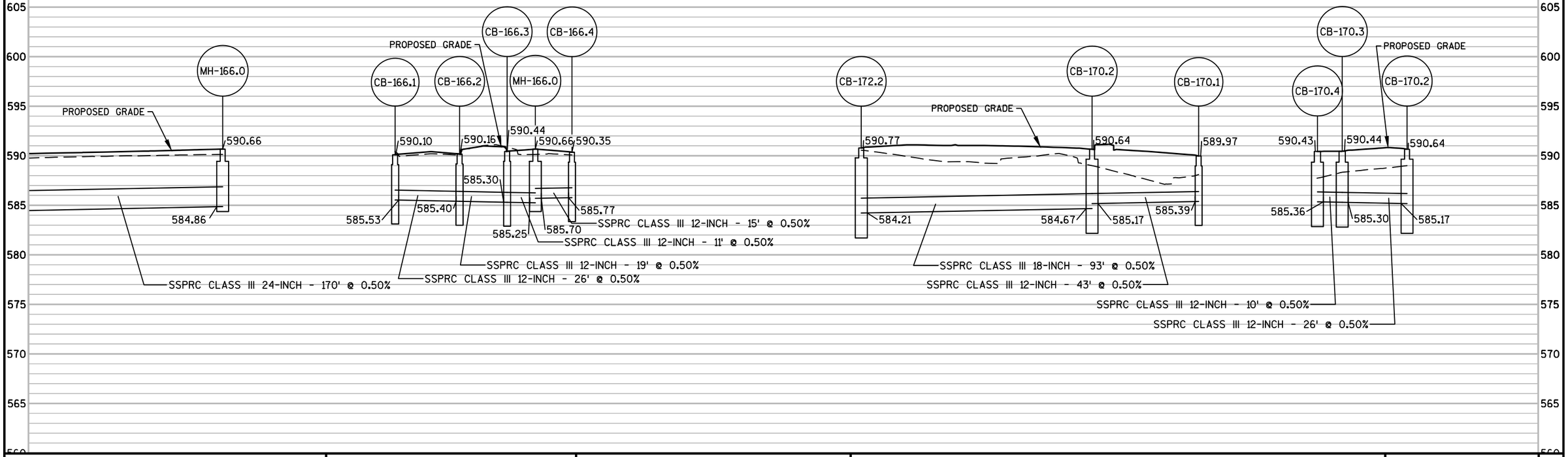




605 600 595 590 585 580 575 570 565

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	STORM SEWER	SHEET 194	E





PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	STORM SEWER	SHEET 195 E

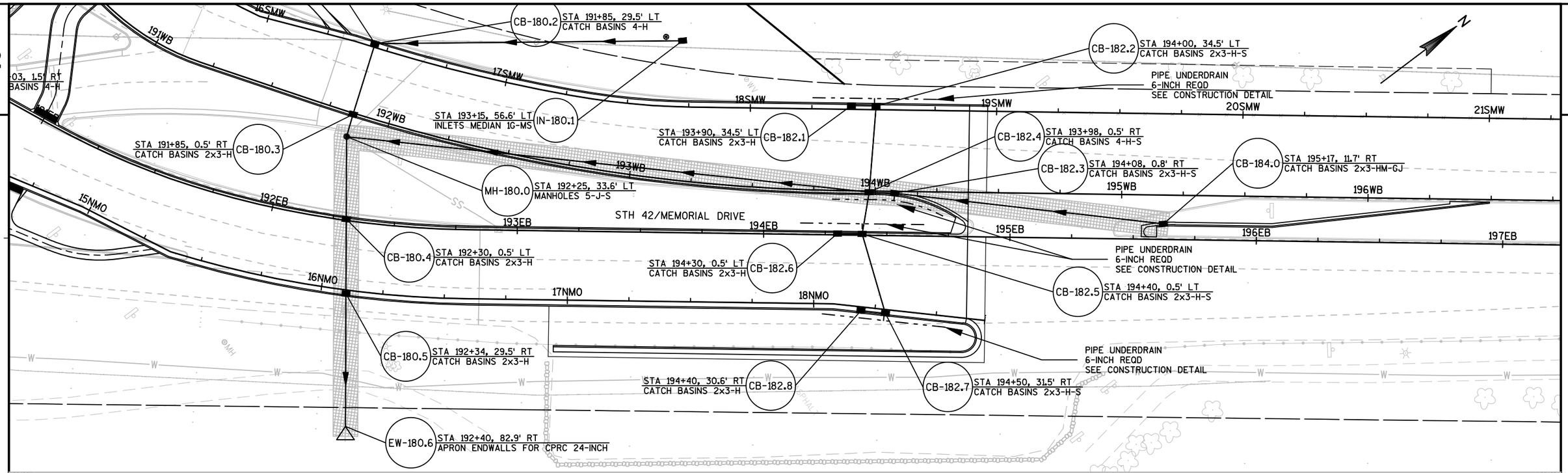
STA 15+07, 1.5' RT
CATCH BASINS 2x3-H
CB-174.1
CB-174.3
STA 12+79, 1.5' RT
CATCH BASINS 2x3-H
CB-172.1
STA 1+51, 29.0' RT
CATCH BASINS 2x3-H
CB-172.2
STA 14+03, 1.5' RT
CATCH BASINS 4-H
MH-180.0
STA 192+25, 33.6' LT
MANHOLES 5-J-S
STA 193+15, 56.6' LT
INLETS MEDIAN 1G-MS
IN-180.1
STA 15+17, 1.5' RT
CATCH BASINS 2x3-H-S
CB-174.2
STA 12+69, 1.5' RT
CATCH BASINS 2x3-H-S
CB-174.4
MARITIME DRIVE
STA 12+88, 1.5' LT
CATCH BASINS 2x3-H-S
CB-174.6
CB-180.4
STA 192+30, 0.5' LT
CATCH BASINS 2x3-H
STH 42/MEMORIAL DRIVE
MH-172.0
STA 13+59, 19.0' RT
MANHOLES 4-J-S
PIPE UNDERDRAIN
6-INCH REQD (TYP)
SEE CONSTRUCTION DETAIL
CB-174.5
STA 12+99, 1.5' LT
CATCH BASINS 2x3-H
CB-180.5
STA 192+34, 29.5' RT
CATCH BASINS 2x3-H
CB-174.7
STA 13+14, 1.5' RT
CATCH BASINS 2x3-H
STA 13+04, 1.5' RT
CATCH BASINS 2x3-H-S
CB-174.8
EW-180.6
STA 192+40, 82.9' RT
APRON ENDWALLS FOR CPRC 24-INCH
CB-174.12
STA 13+31, 1.5' RT
CATCH BASINS 2x3-H-S
CB-174.9
STA 13+29, 1.5' LT
CATCH BASINS 2x3-H
STA 13+05, 14.5' RT
MANHOLES 5-J-S
MH-174.0
STA 13+19, 1.5' LT
CATCH BASINS 2x3-H-S
CB-174.10
EW-174.13
STA 13+17, 75.1' RT
APRON ENDWALLS FOR CPRC 24-INCH
CB-174.11
STA 13+41, 1.5' RT
CATCH BASINS 2x3-H

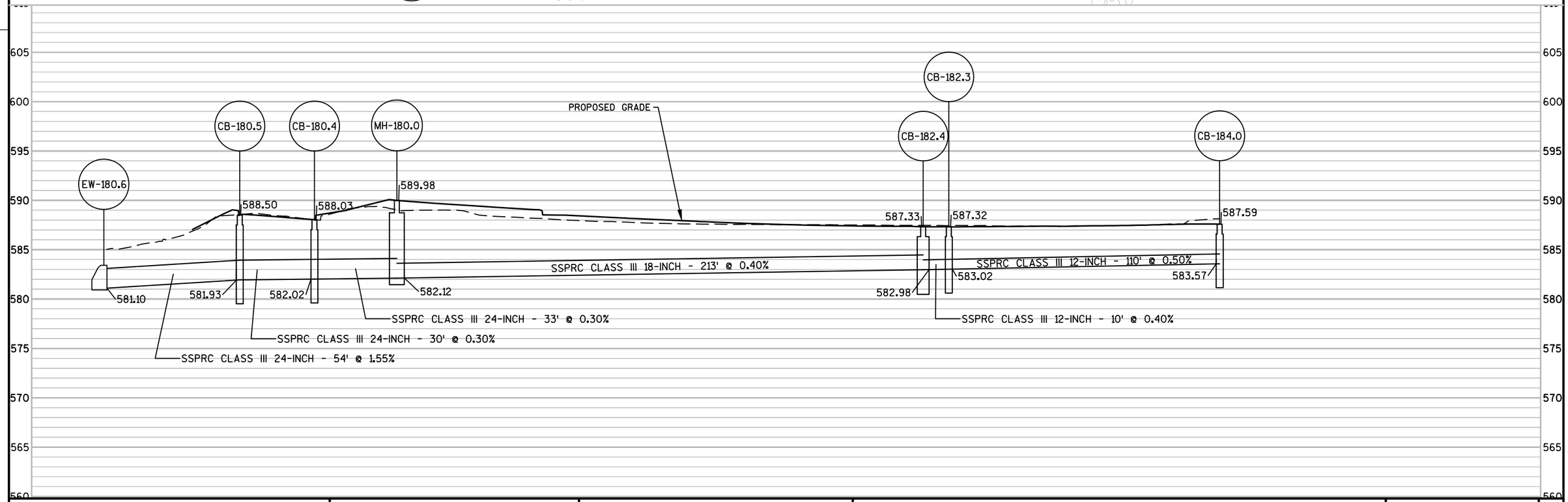
PROPOSED GRADE

SSPRC CLASS III 24-INCH - 76' @ 1.50%
SSPRC CLASS III 24-INCH - 23' @ 1.00%
SSPRC CLASS III 24-INCH - 12' @ 1.00%
SSPRC CLASS III 15-INCH - 13' @ 0.50%
SSPRC CLASS III 15-INCH - 23' @ 0.50%
SSPRC CLASS III 12-INCH - 39' @ 0.50%
SSPRC CLASS III 12-INCH - 21' @ 0.50%
SSPRC CLASS III 12-INCH - 10' @ 0.51%
SSPRC CLASS III 18-INCH - 52' @ 0.50%
SSPRC CLASS III 18-INCH - 35' @ 0.50%
SSPRC CLASS III 12-INCH - 46' @ 0.50%
SSPRC CLASS III 12-INCH - 10' @ 0.49%
SSPRC CLASS III 12-INCH - 10' @ 0.49%
SSPRC CLASS III 12-INCH - 10' @ 0.50%
SSPRC CLASS III 12-INCH - 10' @ 0.50%
SSPRC CLASS III 12-INCH - 10' @ 0.50%

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	STORM SEWER	SHEET 196 E

2





PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	STORM SEWER	SHEET 197	E

2

CB-180.2 STA 191+85, 29.5' LT CATCH BASINS 4-H

STA 191+85, 0.5' RT CATCH BASINS 2x3-H CB-180.3

STA 193+15, 56.6' LT INLETS MEDIAN 1G-MS IN-180.1

MH-180.0 STA 192+25, 33.6' LT MANHOLES 5-J-S

CB-180.4 STA 192+30, 0.5' LT CATCH BASINS 2x3-H

CB-180.5 STA 192+34, 29.5' RT CATCH BASINS 2x3-H

EW-180.6 STA 192+40, 82.9' RT APRON ENDWALLS FOR CPRC 24-INCH

STA 193+90, 34.5' LT CATCH BASINS 2x3-H CB-182.1

CB-182.2 STA 194+00, 34.5' LT CATCH BASINS 2x3-H-S

CB-182.4 STA 193+98, 0.5' RT CATCH BASINS 4-H-S

CB-182.3 STA 194+08, 0.8' RT CATCH BASINS 2x3-H-S

CB-184.0 STA 195+17, 11.7' RT CATCH BASINS 2x3-HM-GJ

STA 194+30, 0.5' LT CATCH BASINS 2x3-H CB-182.6

CB-182.5 STA 194+40, 0.5' LT CATCH BASINS 2x3-H-S

STA 194+40, 30.6' RT CATCH BASINS 2x3-H CB-182.8

CB-182.7 STA 194+50, 31.5' RT CATCH BASINS 2x3-H-S

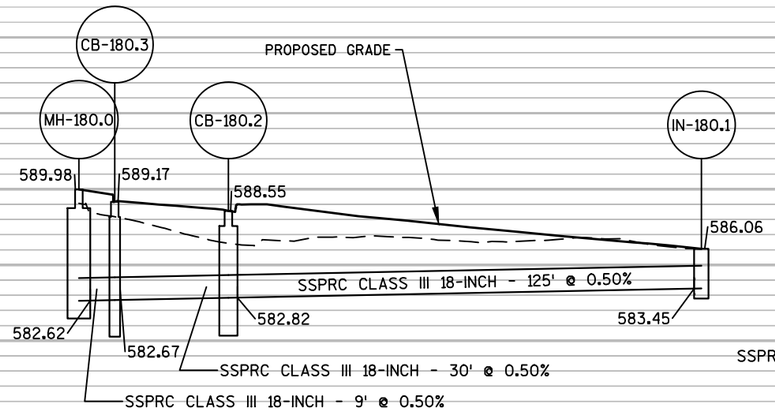
STH 42/MEMORIAL DRIVE

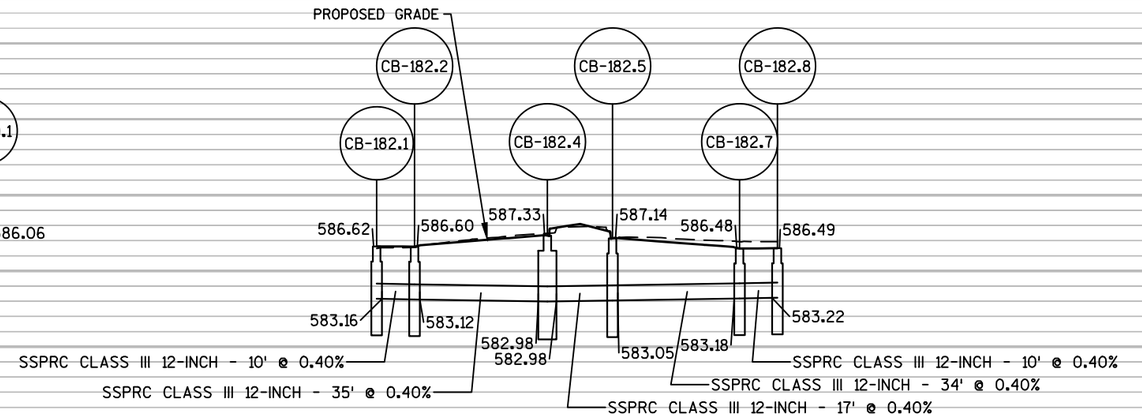
15NMO 16NMO 17NMO 18NMO

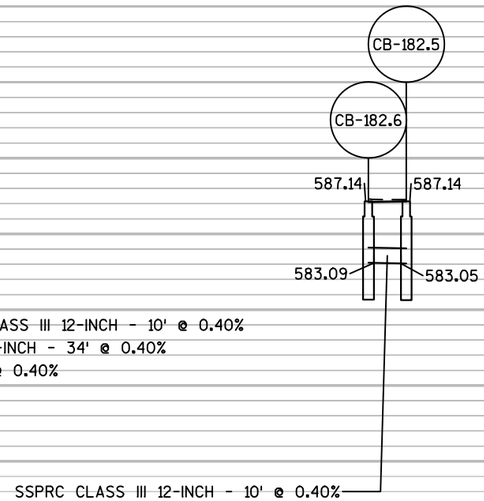
16SMW 17SMW 18SMW 19SMW 20SMW 21SMW

191WB 192WB 193WB 194WB 195WB 196WB

192EB 193EB 194EB 195EB 196EB 197EB





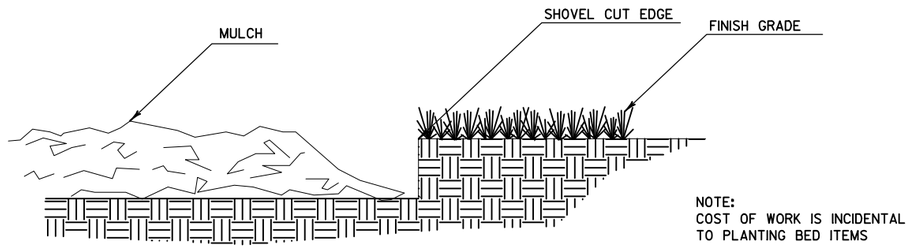


PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	STORM SEWER	SHEET	E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\STORM SEWER\45701271_022500_SS.DWG PLOT DATE : 7/24/2018 2:41 PM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1" = 40'_XREF

PLANT DATA CHART

SYM	COMMON NAME	SCIENTIFIC NAME	TYPE	AVG. MATURE HEIGHT	SIZE (CAL. OR HT.) WHEN PLANTED	MODE	ROOT ZONE DIAM.	MINIMUM SIZE BALL/POT DEPTH	BALL/POT SPREAD	ROOT DIAM.	PLANT HOLE DEPTH	GUY/BRACE REQ'D	FERT. UNITS REQ'D	RODENT PROTECT DIAM.	MULCH RING DIA. OR BED
	DECIDUOUS TREES														
GI	AUTUMN GOLD GINKGO	GINKGO BILOBA 'AUTUMN GOLD'	1	45'	2" CAL.	B&B	24"	16"	-	36"	16"	NO	4	NO	48"
HA	COMMON HACKBERRY	CELTIS OCCIDENTALIS	1	50'	2" CAL.	B&B	24"	16"	-	36"	16"	NO	4	NO	48"
KC	ESPRESSO KENTUCKY COFFEETREE	GYMNOCLADUS DIOICUS 'ESPRESSO'	1	50'	2" CAL.	B&B	24"	16"	-	36"	16"	NO	4	NO	48"
RE	REGAL ELM	ULMUS 'REGAL'	1	55'	2" CAL.	B&B	24"	16"	-	36"	16"	NO	4	NO	48"
RL	REDMOND LINDEN	TILIA AMERICANA 'REDMOND'	1	55'	2" CAL.	B&B	24"	16"	-	36"	16"	NO	4	NO	48"
RM	RED MAPLE	ACER RUBRUM	1	55'	2" CAL.	B&B	24"	16"	-	36"	16"	NO	4	NO	48"
SH	SKYLINE HONEYLOCUST	GLEDITSIA TRIACANTHOS F. INERMIS 'SKYCOLE' SKYLINE®	1	50'	2" CAL.	B&B	24"	16"	-	36"	16"	NO	4	NO	48"
WO	SWAMP WHITE OAK	QUERCUS BICOLOR	1	55'	2" CAL.	B&B	24"	16"	-	36"	16"	NO	4	NO	48"
	ORNAMENTAL TREES														
AS	AUTUMN BRILLIANCE SERVICEBERRY	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	3	20'	1 1/2" CAL.	B&B	16"	12"	-	28"	12"	NO	3	NO	40"
BS	COLORADO BLUE SPRICE	PICEA PUNGENS	6	50'	6' HT.	B&B	14"	11"	-	26"	11"	NO	2	NO	BED
CH	SCHUBERT CHOKECHERRY	PRUNUS VIRGINIANA 'SCHUBERT'	3	25'	1 1/2" CAL.	B&B	16"	12"	-	28"	12"	NO	3	NO	40"
CO	CRUSADER THORNLESS COCKSPUR HAW	CRATAEGUS CRUS-GALLI 'CRUZAM' CRUSADER™	3	25'	1 1/2" CAL.	B&B	16"	12"	-	28"	12"	NO	3	NO	40"
SS	SPRING SNOW CRABAPPLE	MALUS 'SPRING SNOW'	3	20'	1 1/2" CAL.	B&B	16"	12"	-	28"	12"	NO	3	NO	40"
	SHRUBS, GRASSES, & PERENNIALS														
Cj	PLUMOSA CREEPING JUNIPER	JUNIPERUS HORIZONTALIS 'PLUMOSA'	2	1'	6" HT.	CG	-	-	-	-	-	NO	2	NO	BED
St	STAGHORN SUMAC	RHUS TYPHINA	3	15'	2' HT.	CG	-	-	-	-	-	NO	2	NO	24"
wl	WALKER'S LOW BLUE CATMINT	NEPETA RACEMOSA 'WALKER'S LOW'	-	2'	SP4	CG	-	-	-	-	-	NO	-	-	BED



DETAIL FOR PLANTING BED SHOVEL CUT EDGE

NOTES

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PULL BOXES SHALL BE INSTALLED FLUSH TO GRADE ± 1" AND BE PLACED AT LEAST 3' BEHIND CURB AND GUTTER.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION SHALL ONLY BE ACCEPTED WITH THE WRITTEN APPROVAL OF THE ENGINEER.

LIGHTING PLAN LEGEND

STATION — OFFSET

STA 154+00EB, 12'LT
8-7S-37-(1-13)

MAST ARM LENGTH — LIGHT UNIT NUMBER

BASE TYPE — POLE HEIGHT

- TWIN ARM LIGHTING UNIT ON CONCRETE BASE
- SINGLE ARM LIGHTING UNIT ON CONCRETE BASE
- PULL BOX
- LIGHTING CONDUIT (REFER TO PLANS AND MISCELLANEOUS QUANTITIES FOR SIZE, TYPE AND WIRING)

N

FENCE CHAIN LINK POLYMER COATED 6-FT REQUIRED

GATE LOCATION

USH 10/STH 42

FLEETWOOD DR.

STA 71+05EB, 17.5'LT
8-7S-40-(1-31)

AS 3

HA 2

69EB 70EB 71EB 72EB 73EB 74EB 75EB

GATE LOCATION

STA 71+05EB, 45'RT
PB-20

FENCE CHAIN LINK POLYMER COATED 6-FT REQUIRED

STA 72+75EB, 40'RT
15-7S-40-(4-9)

STA 72+75EB, 45'RT

STA 74+70EB, 40'RT
15-7S-40-(4-8)

STA 74+40EB, 45'RT

2" SCH 40 PVC CONDUIT

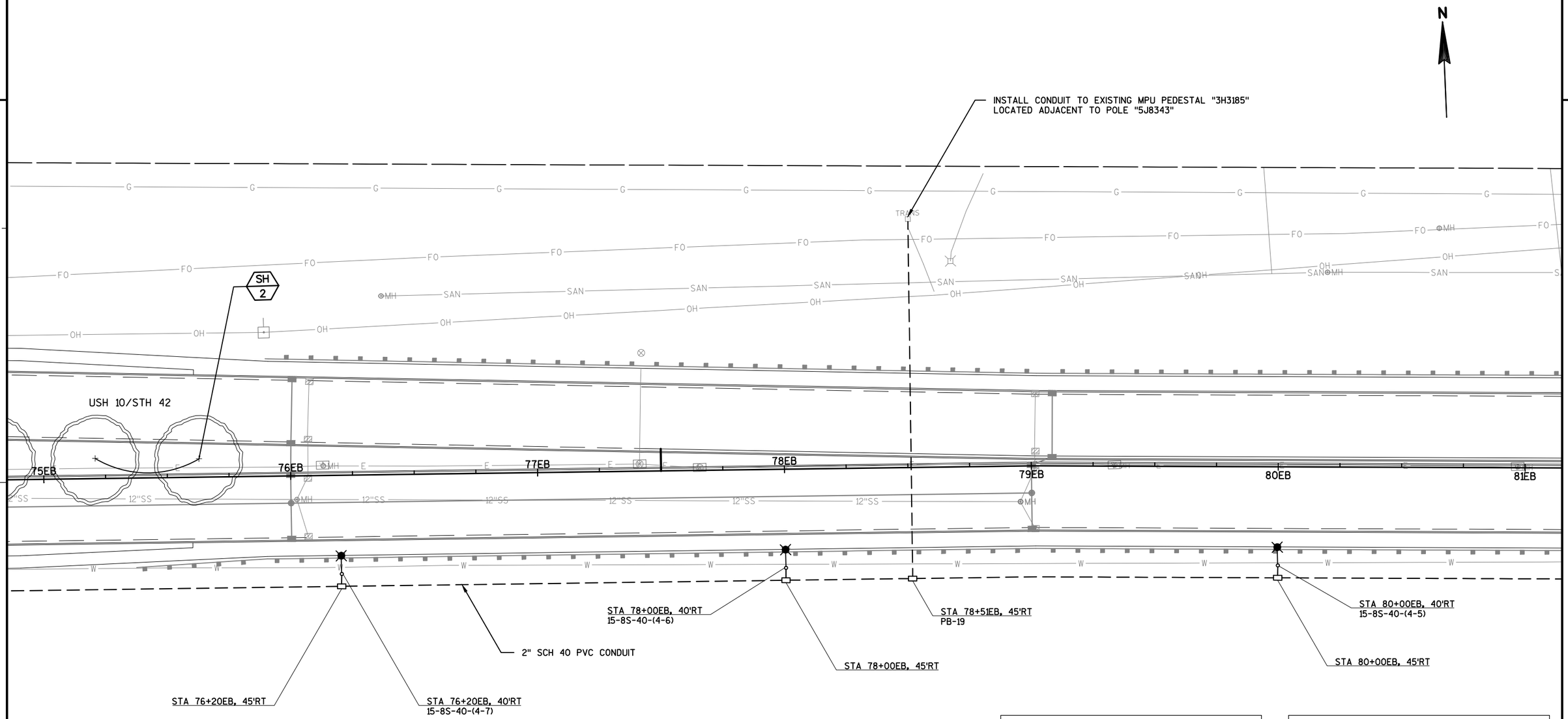
NOTES:
1. MAKE MINOR ADJUSTMENTS TO TREE LOCATIONS TO AVOID OBSTACLES.
2. TREE PLACEMENT GUIDELINE:
   A. 30' FROM ANY STREET CORNER
   B. 10' FROM A DRIVEWAY
   C. 10' FROM A GAS/WATER VALVE
   D. 40' FROM A STREET LIGHT OR UTILITY POLE
   E. 10' FROM A FIRE HYDRANT

PLANT LIST

Symbol	Common Name	Quantity on sheet
LARGE TREES		
GI	Autumn Gold ginkgo	
HA	Common hackberry	2
KC	Espresso Kentucky coffeetree	
RE	Regal elm	
RM	Red maple	
RL	Redmond linden	
SH	Skyline honeylocust	
WO	Swamp white oak	

SMALL TREES		
AS	Autumn Brilliance serviceberry	3
BS	Colorado blue spruce	
CH	Schubert Chokecherry	12
CO	Crusader thornless cockspur hawthorn	
SS	Spring Snow crabapple	
SHRUBS, GRASSES, & PERENNIALS		
CJ	Plumosa creeping juniper	
St	Staghorn sumac	11
wl	Walker's Low blue catmint	

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	LIGHTING AND LANDSCAPING PLAN	SHEET 200	E



LIGHTING PLAN LEGEND

STATION — OFFSET

STA 154+00EB, 12'LT
8-7S-37-(1-13)

MAST ARM LENGTH — LIGHT UNIT NUMBER

BASE TYPE — POLE HEIGHT

- TWIN ARM LIGHTING UNIT ON CONCRETE BASE
- SINGLE ARM LIGHTING UNIT ON CONCRETE BASE
- PULL BOX
- LIGHTING CONDUIT (REFER TO PLANS AND MISCELLANEOUS QUANTITIES FOR SIZE, TYPE AND WIRING)

NOTES

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   D. 40' FROM A STREET LIGHT OR UTILITY POLE
   E. 10' FROM A FIRE HYDRANT

PLANT LIST

Symbol	Common Name	Quantity on sheet
LARGE TREES		
GI	Autumn Gold ginkgo	
HA	Common hackberry	
KC	Espresso Kentucky coffeetree	
RE	Regal elm	
RM	Red maple	
RL	Redmond linden	
SH	Skyline honeylocust	2
WO	Swamp white oak	

SMALL TREES		
AS	Autumn Brilliance serviceberry	
BS	Colorado blue spruce	
CH	Schubert Chokecherry	
CO	Crusader thornless cockspur hawthorn	
SS	Spring Snow crabapple	
SHRUBS, GRASSES, & PERENNIALS		
CJ	Plumosa creeping juniper	
St	Staghorn sumac	
wl	Walker's Low blue catmint	

2

2

LIGHTING PLAN LEGEND

STATION — OFFSET

STA 154+00EB, 12'LT
8-7S-37-(1-13)

MAST ARM LENGTH — LIGHT UNIT NUMBER

BASE TYPE — POLE HEIGHT

TWIN ARM LIGHTING UNIT ON CONCRETE BASE

SINGLE ARM LIGHTING UNIT ON CONCRETE BASE

PULL BOX

LIGHTING CONDUIT (REFER TO PLANS AND MISCELLANEOUS QUANTITIES FOR SIZE, TYPE AND WIRING)

N

TRANS

MH

USH 10/STH 42

81WB 82WB 83WB 84WB 85WB 86WB 87WB

81EB 82EB 83EB 84EB 85EB 86EB 87EB

MH 12"SS 12"SS 12"SS 12"SS

STA 82+00EB, 40'RT
15-8S-40-(4S-2)

STA 82+00EB, 45'RT

STA 84+75EB, 40'RT
15-8S-40-(4S-1)

STA 84+75EB, 45'RT

2" SCH 40 PVC CONDUIT

STA 86+35EB, 40'RT
15-8S-40-(4-4)

STA 86+35EB, 45'RT

NOTES

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PLANT LIST

Symbol	Common Name	Quantity on sheet
LARGE TREES		
GI	Autumn Gold ginkgo	
HA	Common hackberry	
KC	Espresso Kentucky coffeetree	
RE	Regal elm	
RM	Red maple	
RL	Redmond linden	
SH	Skyline honeylocust	
WO	Swamp white oak	

SMALL TREES		
AS	Autumn Brilliance serviceberry	
BS	Colorado blue spruce	
CH	Schubert Chokecherry	
CO	Crusader thornless cockspur hawthorn	
SS	Spring Snow crabapple	
SHRUBS, GRASSES, & PERENNIALS		
CJ	Plumosa creeping juniper	
St	Staghorn sumac	
wl	Walker's Low blue catmint	

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	LIGHTING AND LANDSCAPING PLAN	SHEET 202	E

NOTES

MANITOWOC PUBLIC UTILITIES DISTRIBUTION OPERATIONS DEPARTMENT SHALL APPROVE FINAL LOCATIONS FOR ALL CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION. CONTACT MPU 3 DAYS IN ADVANCE AT (920) 683-4600.

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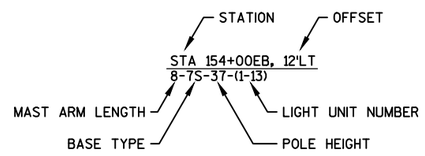
LIGHTING PLAN LEGEND



TWIN ARM LIGHTING UNIT ON CONCRETE BASE

SINGLE ARM LIGHTING UNIT ON CONCRETE BASE

PULL BOX

LIGHTING CONDUIT (REFER TO PLANS AND MISCELLANEOUS QUANTITIES FOR SIZE, TYPE AND WIRING)

USH 10/STH 42

87EB 88EB 89EB 90EB 91EB 92EB 93EB

STA 88+15EB, 40'RT
15-8S-40-(4-3)

STA 88+15EB, 45'RT

2" SCH 40 PVC CONDUIT

STA 90+00EB, 40'RT
15-7S-40-(4-2)

STA 90+00EB, 45'RT

STA 92+00EB, 40'RT
15-7S-40-(4-1)

STA 92+00EB, 45'RT

STA 92+46EB, 40'RT
PB-18
INSTALL PULL BOX
ADJACENT TO MPU
POLE "5H7103"

NOTES:
1. MAKE MINOR ADJUSTMENTS TO TREE LOCATIONS TO AVOID OBSTACLES.
2. TREE PLACEMENT GUIDELINE:
   A. 30' FROM ANY STREET CORNER
   B. 10' FROM A DRIVEWAY
   C. 10' FROM A GAS/WATER VALVE
   D. 40' FROM A STREET LIGHT OR UTILITY POLE
   E. 10' FROM A FIRE HYDRANT

PLANT LIST

Symbol	Common Name	Quantity on sheet
LARGE TREES		
GI	Autumn Gold ginkgo	
HA	Common hackberry	
KC	Espresso Kentucky coffeetree	
RE	Regal elm	
RM	Red maple	
RL	Redmond linden	
SH	Skyline honeylocust	
WO	Swamp white oak	

SMALL TREES		
AS	Autumn Brilliance serviceberry	
BS	Colorado blue spruce	
CH	Schubert Chokecherry	
CO	Crusader thornless cockspur hawthorn	
SS	Spring Snow crabapple	
SHRUBS, GRASSES, & PERENNIALS		
CJ	Plumosa creeping juniper	
St	Staghorn sumac	
wl	Walker's Low blue catmint	

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	LIGHTING AND LANDSCAPING PLAN	SHEET 203	E

NOTES

MANITOWOC PUBLIC UTILITIES DISTRIBUTION OPERATIONS DEPARTMENT SHALL APPROVE FINAL LOCATIONS FOR ALL CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION. CONTACT MPU 3 DAYS IN ADVANCE AT (920) 683-4600.

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LIGHTING PLAN LEGEND

STA 154+00EB, 12'LT
8-7S-37-(1-13)

STATION — OFFSET
MAST ARM LENGTH — LIGHT UNIT NUMBER
BASE TYPE — POLE HEIGHT

- TWIN ARM LIGHTING UNIT ON CONCRETE BASE
- SINGLE ARM LIGHTING UNIT ON CONCRETE BASE
- PULL BOX
- LIGHTING CONDUIT (REFER TO PLANS AND MISCELLANEOUS QUANTITIES FOR SIZE, TYPE AND WIRING)

N

N. 23RD ST.

USH 10/STH 42

93EB 94EB 95EB 96EB 97EB 98EB 99EB

STA 97+10EB, 12'LT
8-7S-40-(1-29)

STA 94+10EB, 6.4'LT
8-7S-40-(1-30)

2" SCH 40 PVC CONDUIT

STA 94+10EB, 4.5'LT

STA 97+06EB, 4.5'LT

STA 96+72EB, 29.5'RT
PB-17
INSTALL PULL BOX
ADJACENT TO MPU
POLE "5H7118"

CO 2 | WO 1 | KC 1 | WO 1

NOTES:
1. MAKE MINOR ADJUSTMENTS TO TREE LOCATIONS TO AVOID OBSTACLES.
2. TREE PLACEMENT GUIDELINE:
   A. 30' FROM ANY STREET CORNER
   B. 10' FROM A DRIVEWAY
   C. 10' FROM A GAS/WATER VALVE
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   E. 10' FROM A FIRE HYDRANT

PLANT LIST		
Symbol	Common Name	Quantity on sheet
LARGE TREES		
GI	Autumn Gold ginkgo	
HA	Common hackberry	
KC	Espresso Kentucky coffeetree	1
RE	Regal elm	
RM	Red maple	
RL	Redmond linden	
SH	Skyline honeylocust	
WO	Swamp white oak	2

SMALL TREES		
AS	Autumn Brilliance serviceberry	
BS	Colorado blue spruce	
CH	Schubert Chokecherry	
CO	Crusader thornless cockspur hawthorn	2
SS	Spring Snow crabapple	
SHRUBS, GRASSES, & PERENNIALS		
CJ	Plumosa creeping juniper	
St	Staghorn sumac	
wl	Walker's Low blue catmint	

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	LIGHTING AND LANDSCAPING PLAN	SHEET 204	E

NOTES

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DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION SHALL ONLY BE ACCEPTED WITH THE WRITTEN APPROVAL OF THE ENGINEER.

LIGHTING PLAN LEGEND

STATION — OFFSET

STA 154+00EB, 12'LT
8-7S-37-(1-13)

MAST ARM LENGTH — LIGHT UNIT NUMBER

BASE TYPE — POLE HEIGHT

- TWIN ARM LIGHTING UNIT ON CONCRETE BASE
- SINGLE ARM LIGHTING UNIT ON CONCRETE BASE
- PULL BOX
- LIGHTING CONDUIT (REFER TO PLANS AND MISCELLANEOUS QUANTITIES FOR SIZE, TYPE AND WIRING)

N

WISCONSIN CENTRAL LTD.

N. 21ST ST.

2" SCH 40 PVC CONDUIT

STA 99+90EB, 12'LT
8-7S-40-(1-28)

STA 99+85EB, 12'LT

STA 102+35EB, 19.5'LT

STA 103+20EB, 16'LT
APPROXIMATE LOCATION OF BEND IN CONDUIT

USH 10/STH 42

99EB 100EB 101EB 102EB 103EB 104EB 105EB

STA 104+05EB, 4.5'LT
APPROXIMATE LOCATION OF BEND IN CONDUIT

HA 2

SS 2

GI 1

STA 102+35EB, 17.5'LT
8-7S-40-(1-27)

MENCHL DR.

NOTES:
1. MAKE MINOR ADJUSTMENTS TO TREE LOCATIONS TO AVOID OBSTACLES.
2. TREE PLACEMENT GUIDELINE:
   A. 30' FROM ANY STREET CORNER
   B. 10' FROM A DRIVEWAY
   C. 10' FROM A GAS/WATER VALVE
   D. 40' FROM A STREET LIGHT OR UTILITY POLE
   E. 10' FROM A FIRE HYDRANT

PLANT LIST

Symbol	Common Name	Quantity on sheet
LARGE TREES		
GI	Autumn Gold ginkgo	1
HA	Common hackberry	2
KC	Espresso Kentucky coffeetree	
RE	Regal elm	
RM	Red maple	
RL	Redmond linden	
SH	Skyline honeylocust	
WO	Swamp white oak	

SMALL TREES		
AS	Autumn Brilliance serviceberry	
BS	Colorado blue spruce	
CH	Schubert Chokecherry	
CO	Crusader thornless cockspur hawthorn	
SS	Spring Snow crabapple	2
SHRUBS, GRASSES, & PERENNIALS		
CJ	Plumosa creeping juniper	
St	Staghorn sumac	
wl	Walker's Low blue catmint	

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	LIGHTING AND LANDSCAPING PLAN	SHEET 205	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_023506_LP.DWG PLOT DATE : 7/26/2018 3:54 PM PLOT BY : VERVILLE, PHILLIP PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

NOTES

MANITOWOC PUBLIC UTILITIES DISTRIBUTION OPERATIONS DEPARTMENT SHALL APPROVE FINAL LOCATIONS FOR ALL CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION. CONTACT MPU 3 DAYS IN ADVANCE AT (920) 683-4600.

PULL BOXES SHALL BE INSTALLED FLUSH TO GRADE ± 1" AND BE PLACED AT LEAST 3' BEHIND CURB AND GUTTER.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION SHALL ONLY BE ACCEPTED WITH THE WRITTEN APPROVAL OF THE ENGINEER.

LIGHTING PLAN LEGEND

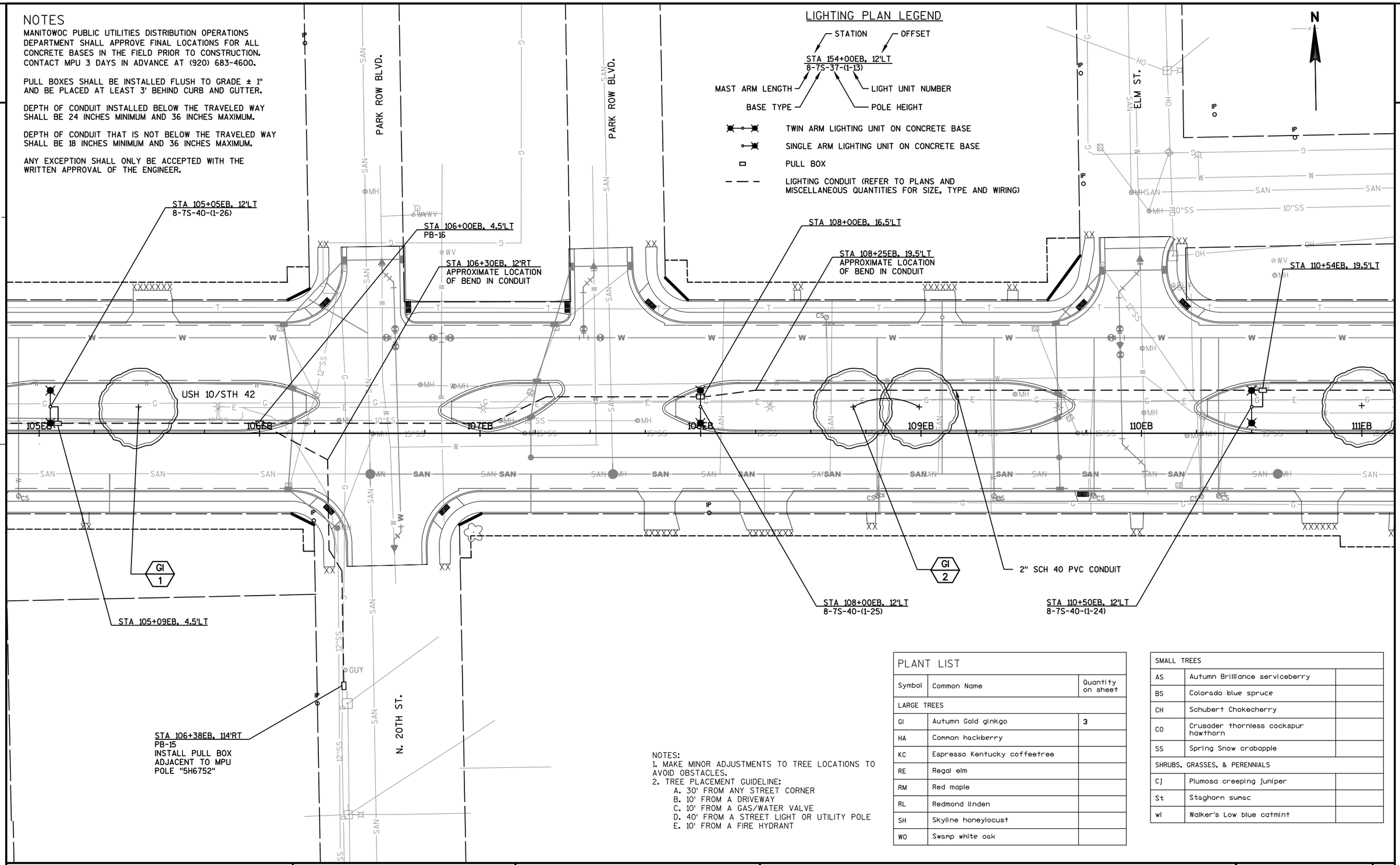
STATION — OFFSET

STA 154+00EB, 12'LT
8-7S-37-(1-13)

MAST ARM LENGTH — LIGHT UNIT NUMBER

BASE TYPE — POLE HEIGHT

- TWIN ARM LIGHTING UNIT ON CONCRETE BASE
- SINGLE ARM LIGHTING UNIT ON CONCRETE BASE
- PULL BOX
- LIGHTING CONDUIT (REFER TO PLANS AND MISCELLANEOUS QUANTITIES FOR SIZE, TYPE AND WIRING)

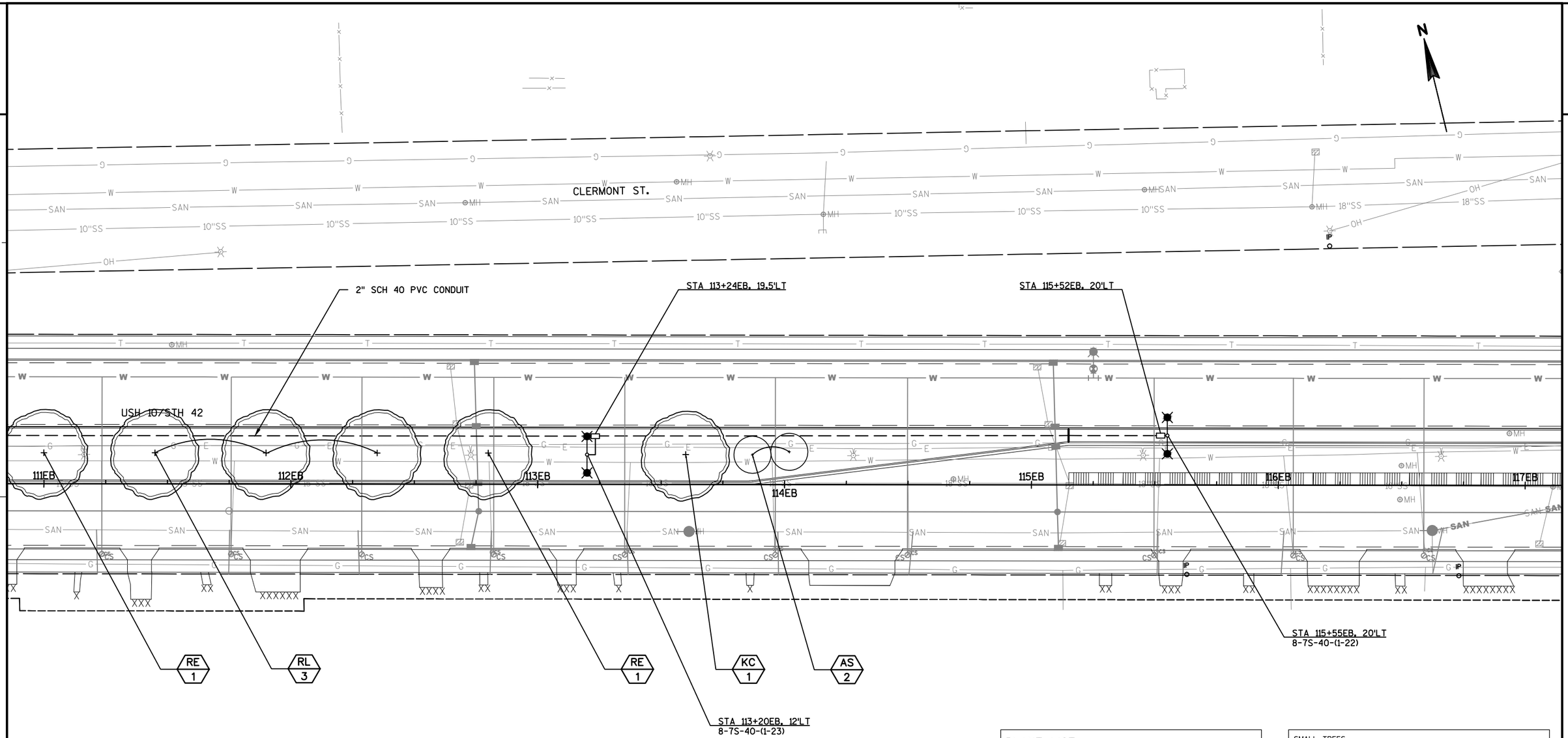


NOTES:
1. MAKE MINOR ADJUSTMENTS TO TREE LOCATIONS TO AVOID OBSTACLES.
2. TREE PLACEMENT GUIDELINE:
   A. 30' FROM ANY STREET CORNER
   B. 10' FROM A DRIVEWAY
   C. 10' FROM A GAS/WATER VALVE
   D. 40' FROM A STREET LIGHT OR UTILITY POLE
   E. 10' FROM A FIRE HYDRANT

PLANT LIST		
Symbol	Common Name	Quantity on sheet
LARGE TREES		
GI	Autumn Gold ginkgo	3
HA	Common hackberry	
KC	Espresso Kentucky coffeetree	
RE	Regal elm	
RM	Red maple	
RL	Redmond linden	
SH	Skyline honeylocust	
WO	Swamp white oak	

SMALL TREES		
AS	Autumn Brilliance serviceberry	
BS	Colorado blue spruce	
CH	Schubert Chokecherry	
CO	Crusader thornless cockspur hawthorn	
SS	Spring Snow crabapple	
SHRUBS, GRASSES, & PERENNIALS		
CJ	Plumosa creeping juniper	
St	Staghorn sumac	
wl	Walker's Low blue catmint	

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	LIGHTING AND LANDSCAPING PLAN	SHEET 206	E



NOTES

MANITOWOC PUBLIC UTILITIES DISTRIBUTION OPERATIONS DEPARTMENT SHALL APPROVE FINAL LOCATIONS FOR ALL CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION. CONTACT MPU 3 DAYS IN ADVANCE AT (920) 683-4600.

PULL BOXES SHALL BE INSTALLED FLUSH TO GRADE ± 1" AND BE PLACED AT LEAST 3' BEHIND CURB AND GUTTER.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

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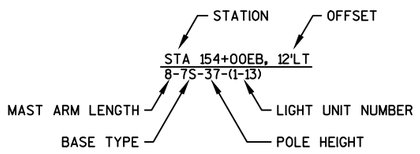
LIGHTING PLAN LEGEND



- TWIN ARM LIGHTING UNIT ON CONCRETE BASE
- SINGLE ARM LIGHTING UNIT ON CONCRETE BASE
- PULL BOX
- LIGHTING CONDUIT (REFER TO PLANS AND MISCELLANEOUS QUANTITIES FOR SIZE, TYPE AND WIRING)

NOTES:
1. MAKE MINOR ADJUSTMENTS TO TREE LOCATIONS TO AVOID OBSTACLES.
2. TREE PLACEMENT GUIDELINE:
   A. 30' FROM ANY STREET CORNER
   B. 10' FROM A DRIVEWAY
   C. 10' FROM A GAS/WATER VALVE
   D. 40' FROM A STREET LIGHT OR UTILITY POLE
   E. 10' FROM A FIRE HYDRANT

PLANT LIST

Symbol	Common Name	Quantity on sheet
LARGE TREES		
GI	Autumn Gold ginkgo	
HA	Common hackberry	
KC	Espresso Kentucky coffeetree	1
RE	Regal elm	2
RM	Red maple	
RL	Redmond linden	3
SH	Skyline honeylocust	
WO	Swamp white oak	

SMALL TREES		
AS	Autumn Brilliance serviceberry	2
BS	Colorado blue spruce	
CH	Schubert Chokecherry	
CO	Crusader thornless cockspur hawthorn	
SS	Spring Snow crabapple	
SHRUBS, GRASSES, & PERENNIALS		
CJ	Plumosa creeping juniper	
St	Staghorn sumac	
wl	Walker's Low blue catmint	

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	LIGHTING AND LANDSCAPING PLAN	SHEET 207	E

NOTES

MANITOWOC PUBLIC UTILITIES DISTRIBUTION OPERATIONS DEPARTMENT SHALL APPROVE FINAL LOCATIONS FOR ALL CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION. CONTACT MPU 3 DAYS IN ADVANCE AT (920) 683-4600.

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LIGHTING PLAN LEGEND

STATION / OFFSET

STA 154+00EB, 12'LT
8-7S-37-(1-13)

MAST ARM LENGTH / BASE TYPE / POLE HEIGHT / LIGHT UNIT NUMBER

- TWIN ARM LIGHTING UNIT ON CONCRETE BASE
- SINGLE ARM LIGHTING UNIT ON CONCRETE BASE
- PULL BOX
- LIGHTING CONDUIT (REFER TO PLANS AND MISCELLANEOUS QUANTITIES FOR SIZE, TYPE AND WIRING)

2" SCH 40 PVC CONDUIT

STA 122+70EB, 19.5'LT
APPROXIMATE LOCATION OF BEND IN CONDUIT

STA 120+60EB, 4'LT
8-7S-40-(1-21)

STA 120+63EB, 4'LT

STA 122+20EB, 4'LT
APPROXIMATE LOCATION OF BEND IN CONDUIT

N. 18TH ST.

N. 17TH ST.

USH 10/STH 42

117EB 118EB 119EB 120EB 121EB 122EB 123EB

NOTES:
1. MAKE MINOR ADJUSTMENTS TO TREE LOCATIONS TO AVOID OBSTACLES.
2. TREE PLACEMENT GUIDELINE:
   A. 30' FROM ANY STREET CORNER
   B. 10' FROM A DRIVEWAY
   C. 10' FROM A GAS/WATER VALVE
   D. 40' FROM A STREET LIGHT OR UTILITY POLE
   E. 10' FROM A FIRE HYDRANT

PLANT LIST

Symbol	Common Name	Quantity on sheet
LARGE TREES		
GI	Autumn Gold ginkgo	
HA	Common hackberry	
KC	Espresso Kentucky coffeetree	
RE	Regal elm	
RM	Red maple	
RL	Redmond linden	
SH	Skyline honeylocust	
WO	Swamp white oak	

SMALL TREES		
AS	Autumn Brilliance serviceberry	
BS	Colorado blue spruce	
CH	Schubert Chokecherry	
CO	Crusader thornless cockspur hawthorn	
SS	Spring Snow crabapple	
SHRUBS, GRASSES, & PERENNIALS		
CJ	Plumosa creeping juniper	
St	Staghorn sumac	
wl	Walker's Low blue catmint	

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	LIGHTING AND LANDSCAPING PLAN	SHEET 208 E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_023509_LP.DWG PLOT DATE : 7/20/2018 7:46 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

NOTES

MANITOWOC PUBLIC UTILITIES DISTRIBUTION OPERATIONS DEPARTMENT SHALL APPROVE FINAL LOCATIONS FOR ALL CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION. CONTACT MPU 3 DAYS IN ADVANCE AT (920) 683-4600.

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DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

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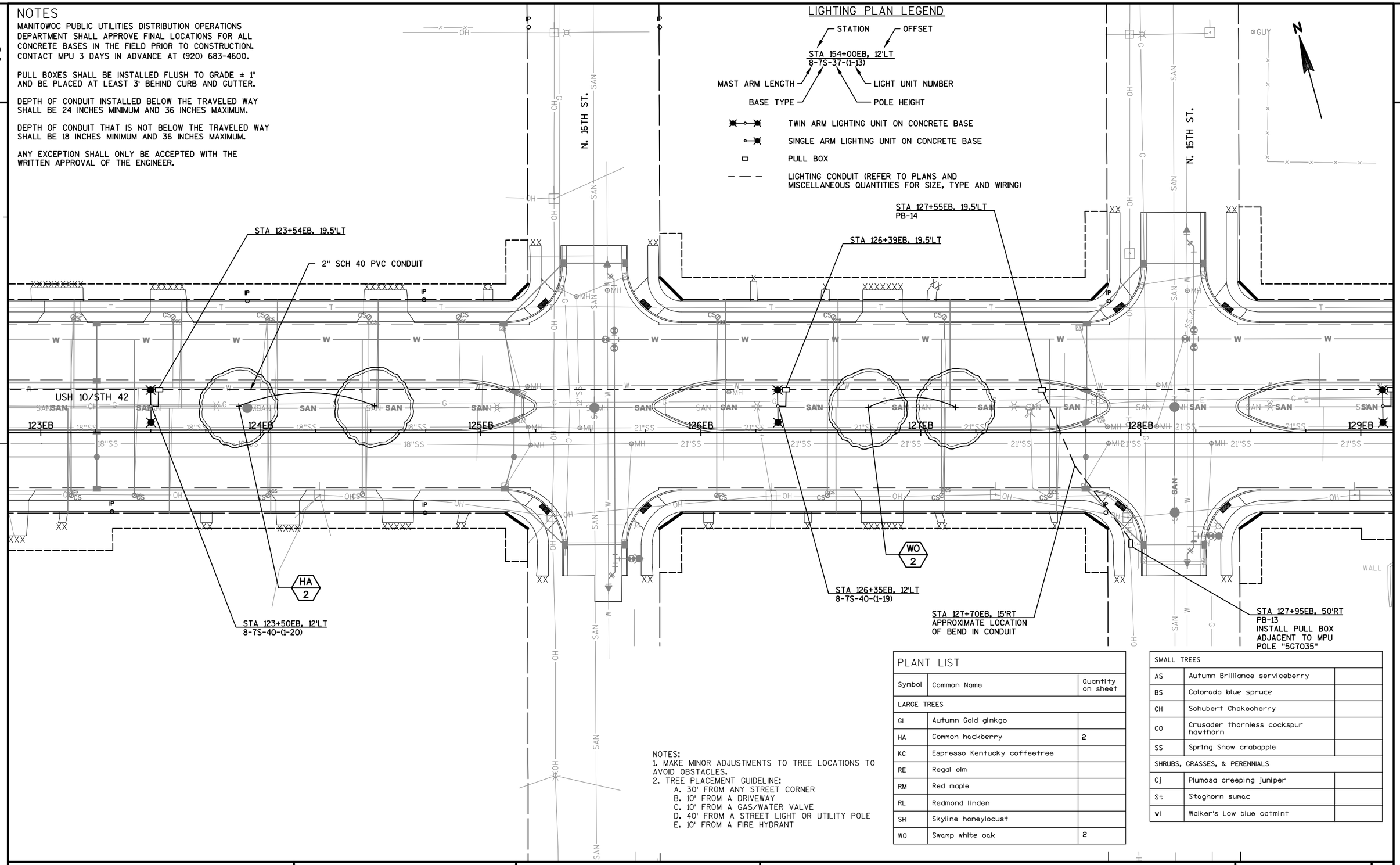
LIGHTING PLAN LEGEND

STA 154+00EB, 12'LT
8-7S-37-(1-13)

- STATION
- OFFSET
- MAST ARM LENGTH
- LIGHT UNIT NUMBER
- BASE TYPE
- POLE HEIGHT

- TWIN ARM LIGHTING UNIT ON CONCRETE BASE
- SINGLE ARM LIGHTING UNIT ON CONCRETE BASE
- PULL BOX
- LIGHTING CONDUIT (REFER TO PLANS AND MISCELLANEOUS QUANTITIES FOR SIZE, TYPE AND WIRING)



NOTES:
1. MAKE MINOR ADJUSTMENTS TO TREE LOCATIONS TO AVOID OBSTACLES.
2. TREE PLACEMENT GUIDELINE:
   - A. 30' FROM ANY STREET CORNER
   - B. 10' FROM A DRIVEWAY
   - C. 10' FROM A GAS/WATER VALVE
   - D. 40' FROM A STREET LIGHT OR UTILITY POLE
   - E. 10' FROM A FIRE HYDRANT

PLANT LIST		
Symbol	Common Name	Quantity on sheet
LARGE TREES		
GI	Autumn Gold ginkgo	
HA	Common hackberry	2
KC	Espresso Kentucky coffeetree	
RE	Regal elm	
RM	Red maple	
RL	Redmond linden	
SH	Skyline honeylocust	
WO	Swamp white oak	2

SMALL TREES		
AS	Autumn Brilliance serviceberry	
BS	Colorado blue spruce	
CH	Schubert Chokecherry	
CO	Crusader thornless cockspur hawthorn	
SS	Spring Snow crabapple	
SHRUBS, GRASSES, & PERENNIALS		
CJ	Plumosa creeping juniper	
St	Staghorn sumac	
wl	Walker's Low blue catmint	

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	LIGHTING AND LANDSCAPING PLAN	SHEET 209	E

NOTES

MANITOWOC PUBLIC UTILITIES DISTRIBUTION OPERATIONS DEPARTMENT SHALL APPROVE FINAL LOCATIONS FOR ALL CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION. CONTACT MPU 3 DAYS IN ADVANCE AT (920) 683-4600.

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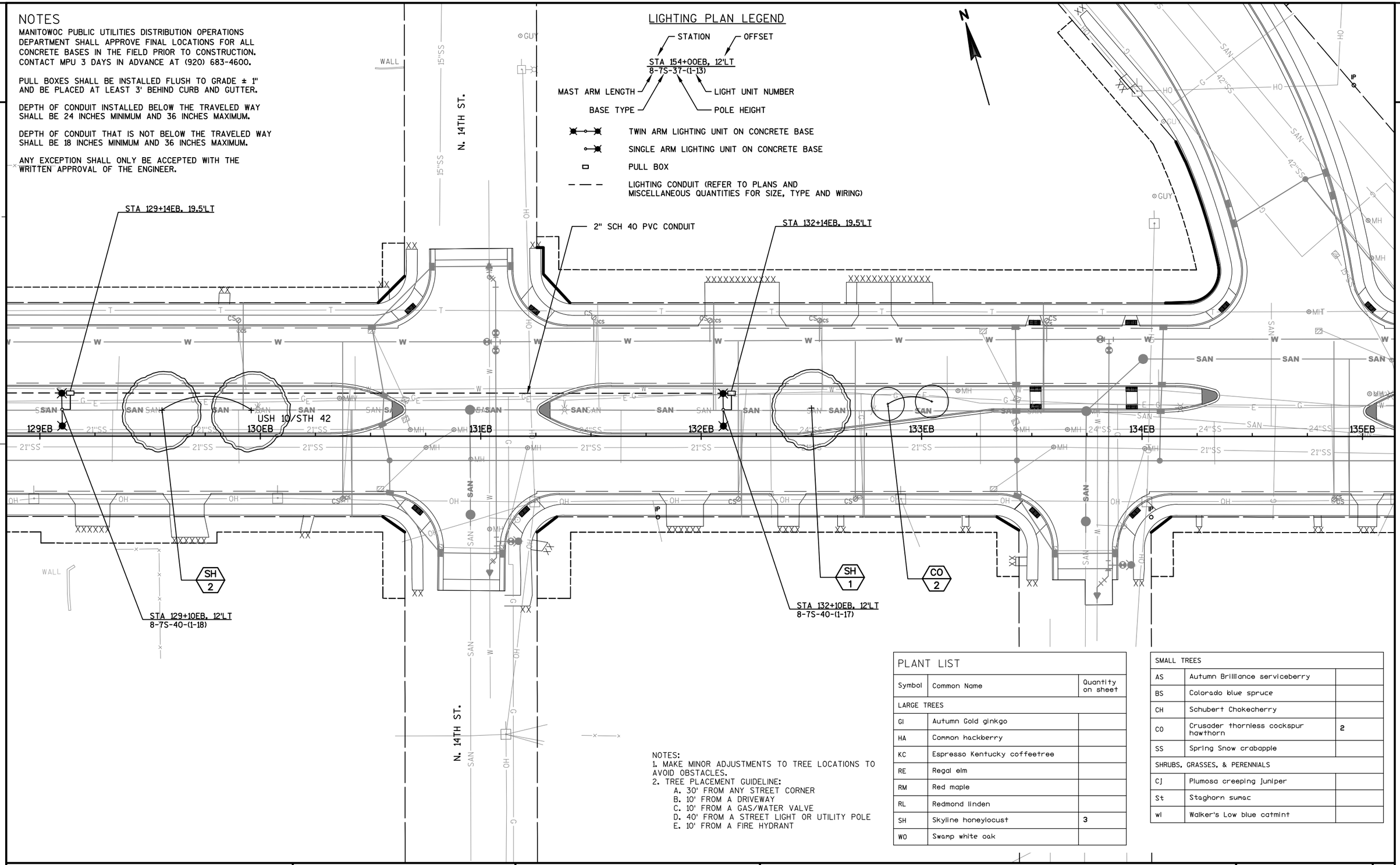
ANY EXCEPTION SHALL ONLY BE ACCEPTED WITH THE WRITTEN APPROVAL OF THE ENGINEER.

LIGHTING PLAN LEGEND

STA 154+00EB, 12'LT
8-7S-37-(1-13)

- STATION
- OFFSET
- MAST ARM LENGTH
- BASE TYPE
- LIGHT UNIT NUMBER
- POLE HEIGHT

- TWIN ARM LIGHTING UNIT ON CONCRETE BASE
- SINGLE ARM LIGHTING UNIT ON CONCRETE BASE
- PULL BOX
- LIGHTING CONDUIT (REFER TO PLANS AND MISCELLANEOUS QUANTITIES FOR SIZE, TYPE AND WIRING)



NOTES:
1. MAKE MINOR ADJUSTMENTS TO TREE LOCATIONS TO AVOID OBSTACLES.
2. TREE PLACEMENT GUIDELINE:
   - A. 30' FROM ANY STREET CORNER
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   - E. 10' FROM A FIRE HYDRANT

PLANT LIST

Symbol	Common Name	Quantity on sheet
LARGE TREES		
GI	Autumn Gold ginkgo	
HA	Common hackberry	
KC	Espresso Kentucky coffeetree	
RE	Regal elm	
RM	Red maple	
RL	Redmond linden	
SH	Skyline honeylocust	3
WO	Swamp white oak	

SMALL TREES		
AS	Autumn Brilliance serviceberry	
BS	Colorado blue spruce	
CH	Schubert Chokecherry	
CO	Crusader thornless cockspur hawthorn	2
SS	Spring Snow crabapple	
SHRUBS, GRASSES, & PERENNIALS		
CJ	Plumosa creeping juniper	
St	Staghorn sumac	
wl	Walker's Low blue catmint	

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	LIGHTING AND LANDSCAPING	SHEET 210	E

LIGHTING PLAN LEGEND

STATION — OFFSET

STA 154+00EB, 12'LT
8-7S-37-(1-13)

MAST ARM LENGTH — LIGHT UNIT NUMBER

BASE TYPE — POLE HEIGHT

- TWIN ARM LIGHTING UNIT ON CONCRETE BASE
- SINGLE ARM LIGHTING UNIT ON CONCRETE BASE
- PULL BOX
- LIGHTING CONDUIT (REFER TO PLANS AND MISCELLANEOUS QUANTITIES FOR SIZE, TYPE AND WIRING)

NOTES

MANITOWOC PUBLIC UTILITIES DISTRIBUTION OPERATIONS DEPARTMENT SHALL APPROVE FINAL LOCATIONS FOR ALL CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION. CONTACT MPU 3 DAYS IN ADVANCE AT (920) 683-4600.

PULL BOXES SHALL BE INSTALLED FLUSH TO GRADE ± 1" AND BE PLACED AT LEAST 3' BEHIND CURB AND GUTTER.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION SHALL ONLY BE ACCEPTED WITH THE WRITTEN APPROVAL OF THE ENGINEER.

STA 135+29EB, 19.5'LT

STA 137+29EB, 19.5'LT

2" SCH 40 PVC CONDUIT

STA 138+46EB, 19.5'LT
PB-11

STA 139+10EB, 19.5'LT

PI: 135+31.67

USH 10/STH 42

135EB 136EB 137EB 138EB 139EB 140EB 141EB

N. 12TH ST.

MENASHA AVE.

AS 2

RL 1

RL 1

STA 135+25EB, 12'LT
8-7S-40-(1-16)

STA 137+25EB, 12'LT
8-7S-40-(1-15)

STA 138+46EB, 29.5'RT
PB-12
INTALL PULL BOX
ADJACENT TO MPU
POLE "5G7072"

STA 139+10EB, 17.7'LT
8-7S-40-(1-14)

BEAM GUARD

NOTES:
1. MAKE MINOR ADJUSTMENTS TO TREE LOCATIONS TO AVOID OBSTACLES.
2. TREE PLACEMENT GUIDELINE:
   A. 30' FROM ANY STREET CORNER
   B. 10' FROM A DRIVEWAY
   C. 10' FROM A GAS/WATER VALVE
   D. 40' FROM A STREET LIGHT OR UTILITY POLE
   E. 10' FROM A FIRE HYDRANT

PLANT LIST

Symbol	Common Name	Quantity on sheet
LARGE TREES		
GI	Autumn Gold ginkgo	
HA	Common hackberry	
KC	Espresso Kentucky coffeetree	
RE	Regal elm	
RM	Red maple	
RL	Redmond linden	2
SH	Skyline honeylocust	
WO	Swamp white oak	

SMALL TREES		
AS	Autumn Brilliance serviceberry	2
BS	Colorado blue spruce	
CH	Schubert Chokecherry	
CO	Crusader thornless cockspur hawthorn	
SS	Spring Snow crabapple	
SHRUBS, GRASSES, & PERENNIALS		
CJ	Plumosa creeping juniper	
St	Staghorn sumac	
wi	Walker's Low blue catmint	

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	LIGHTING AND LANDSCAPING	SHEET 211	E

NOTES

MANITOWOC PUBLIC UTILITIES DISTRIBUTION OPERATIONS DEPARTMENT SHALL APPROVE FINAL LOCATIONS FOR ALL CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION. CONTACT MPU 3 DAYS IN ADVANCE AT (920) 683-4600.

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LIGHTING PLAN LEGEND

STATION — OFFSET

STA 154+00EB, 12'LT
8-7S-37-(1-13)

MAST ARM LENGTH — LIGHT UNIT NUMBER

BASE TYPE — POLE HEIGHT

- TWIN ARM LIGHTING UNIT ON CONCRETE BASE
- SINGLE ARM LIGHTING UNIT ON CONCRETE BASE
- PULL BOX
- LIGHTING CONDUIT (REFER TO PLANS AND MISCELLANEOUS QUANTITIES FOR SIZE, TYPE AND WIRING)

N

STA 141+31EB, 95'LT
PB-10
INSTALL PULL BOX ADJACENT TO MPU POLE "5G7482"

STA 141+81EB, 95'LT
PB-9

RM 7

STA 142+05EB, 52.5'LT
PB-8

STA 144+25EB, 53.5'LT
8-7S-40-(2-4)

STA 144+28EB, 52.5'LT

2" SCH 40 PVC CONDUIT

N. 11TH ST.

USH 10/STH 42

141EB 142EB 143EB 144EB 145EB 146EB 147EB

STA 142+05EB, 28.5'RT
PB-7

STA 142+78EB, 28.5'RT

STA 142+75EB, 29.5'RT
8-7S-40-(2-5)

2" SCH 40 PVC CONDUIT

STA 146+03EB, 28.5'RT

STA 146+00EB, 29.5'RT
8-7S-40-(2-3)

N. 11TH ST.

NOTES:
1. MAKE MINOR ADJUSTMENTS TO TREE LOCATIONS TO AVOID OBSTACLES.
2. TREE PLACEMENT GUIDELINE:
   A. 30' FROM ANY STREET CORNER
   B. 10' FROM A DRIVEWAY
   C. 10' FROM A GAS/WATER VALVE
   D. 40' FROM A STREET LIGHT OR UTILITY POLE
   E. 10' FROM A FIRE HYDRANT

PLANT LIST

Symbol	Common Name	Quantity on sheet
LARGE TREES		
GI	Autumn Gold ginkgo	
HA	Common hackberry	
KC	Espresso Kentucky coffeetree	
RE	Regal elm	
RM	Red maple	7
RL	Redmond linden	
SH	Skyline honeylocust	
WO	Swamp white oak	

SMALL TREES		
AS	Autumn Brilliance serviceberry	
BS	Colorado blue spruce	
CH	Schubert Chokecherry	
CO	Crusader thornless cockspur hawthorn	
SS	Spring Snow crabapple	
SHRUBS, GRASSES, & PERENNIALS		
CJ	Plumosa creeping juniper	
St	Staghorn sumac	
wl	Walker's Low blue catmint	

NOTES

MANITOWOC PUBLIC UTILITIES DISTRIBUTION OPERATIONS DEPARTMENT SHALL APPROVE FINAL LOCATIONS FOR ALL CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION. CONTACT MPU 3 DAYS IN ADVANCE AT (920) 683-4600.

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LIGHTING PLAN LEGEND

STATION — OFFSET

STA 154+00EB, 12'LT
8-7S-37-(1-13)

MAST ARM LENGTH — LIGHT UNIT NUMBER

BASE TYPE — POLE HEIGHT

- TWIN ARM LIGHTING UNIT ON CONCRETE BASE
- SINGLE ARM LIGHTING UNIT ON CONCRETE BASE
- PULL BOX
- LIGHTING CONDUIT (REFER TO PLANS AND MISCELLANEOUS QUANTITIES FOR SIZE, TYPE AND WIRING)

RM 2

STA 147+50EB, 53.5'LT
8-7S-40-(2-2)
STA 147+47EB, 52.5'LT
2" SCH 40 PVC CONDUIT

AS 3

2" SCH 40 PVC CONDUIT

STA 149+15EB, 29.5'RT
8-7S-40-(2-1)
STA 149+15EB, 28.5'RT

N. 9TH ST.

N. 8TH ST.

USH 10/STH 42

147EB 148EB 149EB 150EB 151EB 152EB 153EB

EXISTING R/W

EXISTING R/W

NOTES:
1. MAKE MINOR ADJUSTMENTS TO TREE LOCATIONS TO AVOID OBSTACLES.
2. TREE PLACEMENT GUIDELINE:
   A. 30' FROM ANY STREET CORNER
   B. 10' FROM A DRIVEWAY
   C. 10' FROM A GAS/WATER VALVE
   D. 40' FROM A STREET LIGHT OR UTILITY POLE
   E. 10' FROM A FIRE HYDRANT

PLANT LIST

Symbol	Common Name	Quantity on sheet
LARGE TREES		
GI	Autumn Gold ginkgo	
HA	Common hackberry	
KC	Espresso Kentucky coffeetree	
RE	Regal elm	
RM	Red maple	2
RL	Redmond linden	
SH	Skyline honeylocust	
WO	Swamp white oak	

SMALL TREES		
AS	Autumn Brilliance serviceberry	3
BS	Colorado blue spruce	
CH	Schubert Chokecherry	
CO	Crusader thornless cockspur hawthorn	
SS	Spring Snow crabapple	
SHRUBS, GRASSES, & PERENNIALS		
CJ	Plumosa creeping juniper	
St	Staghorn sumac	
wl	Walker's Low blue catmint	

NOTES

MANITOWOC PUBLIC UTILITIES DISTRIBUTION OPERATIONS DEPARTMENT SHALL APPROVE FINAL LOCATIONS FOR ALL CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION. CONTACT MPU 3 DAYS IN ADVANCE AT (920) 683-4600.

PULL BOXES SHALL BE INSTALLED FLUSH TO GRADE ± 1" AND BE PLACED AT LEAST 3' BEHIND CURB AND GUTTER.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION SHALL ONLY BE ACCEPTED WITH THE WRITTEN APPROVAL OF THE ENGINEER.

LIGHTING PLAN LEGEND

STA 154+00EB, 12'LT
8-7S-37-(1-13)

- STATION
- OFFSET
- MAST ARM LENGTH
- BASE TYPE
- LIGHT UNIT NUMBER
- POLE HEIGHT

TWIN ARM LIGHTING UNIT ON CONCRETE BASE

SINGLE ARM LIGHTING UNIT ON CONCRETE BASE

PULL BOX

LIGHTING CONDUIT (REFER TO PLANS AND MISCELLANEOUS QUANTITIES FOR SIZE, TYPE AND WIRING)

N. 8TH ST.

STH 42

LINCOLN BLVD. (WEST)

LINCOLN BLVD. (EAST)

CO 2

KC 3

STA 154+00EB, 12'LT
8-7S-40-(1-13)

STA 156+90EB, 12'LT
8-7S-40-(1-12)

STA 154+04EB, 4.5'LT

STA 156+94EB, 4.5'LT

2" SCH 40 PVC CONDUIT

151EB 152EB 153EB 154EB 155EB 156EB 157EB

NOTES:
1. MAKE MINOR ADJUSTMENTS TO TREE LOCATIONS TO AVOID OBSTACLES.
2. TREE PLACEMENT GUIDELINE:
   - A. 30' FROM ANY STREET CORNER
   - B. 10' FROM A DRIVEWAY
   - C. 10' FROM A GAS/WATER VALVE
   - D. 40' FROM A STREET LIGHT OR UTILITY POLE
   - E. 10' FROM A FIRE HYDRANT

PLANT LIST

Symbol	Common Name	Quantity on sheet
LARGE TREES		
GI	Autumn Gold ginkgo	
HA	Common hackberry	
KC	Espresso Kentucky coffeetree	3
RE	Regal elm	
RM	Red maple	
RL	Redmond linden	
SH	Skyline honeylocust	
WO	Swamp white oak	

SMALL TREES		
AS	Autumn Brilliance serviceberry	
BS	Colorado blue spruce	
CH	Schubert Chokecherry	
CO	Crusader thornless cockspur hawthorn	
SS	Spring Snow crabapple	
SHRUBS, GRASSES, & PERENNIALS		
CJ	Plumosa creeping juniper	
St	Staghorn sumac	
wl	Walker's Low blue catmint	

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	LIGHTING AND LANDSCAPING PLAN	SHEET 214	E

NOTES

MANITOWOC PUBLIC UTILITIES DISTRIBUTION OPERATIONS DEPARTMENT SHALL APPROVE FINAL LOCATIONS FOR ALL CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION. CONTACT MPU 3 DAYS IN ADVANCE AT (920) 683-4600.

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LIGHTING PLAN LEGEND

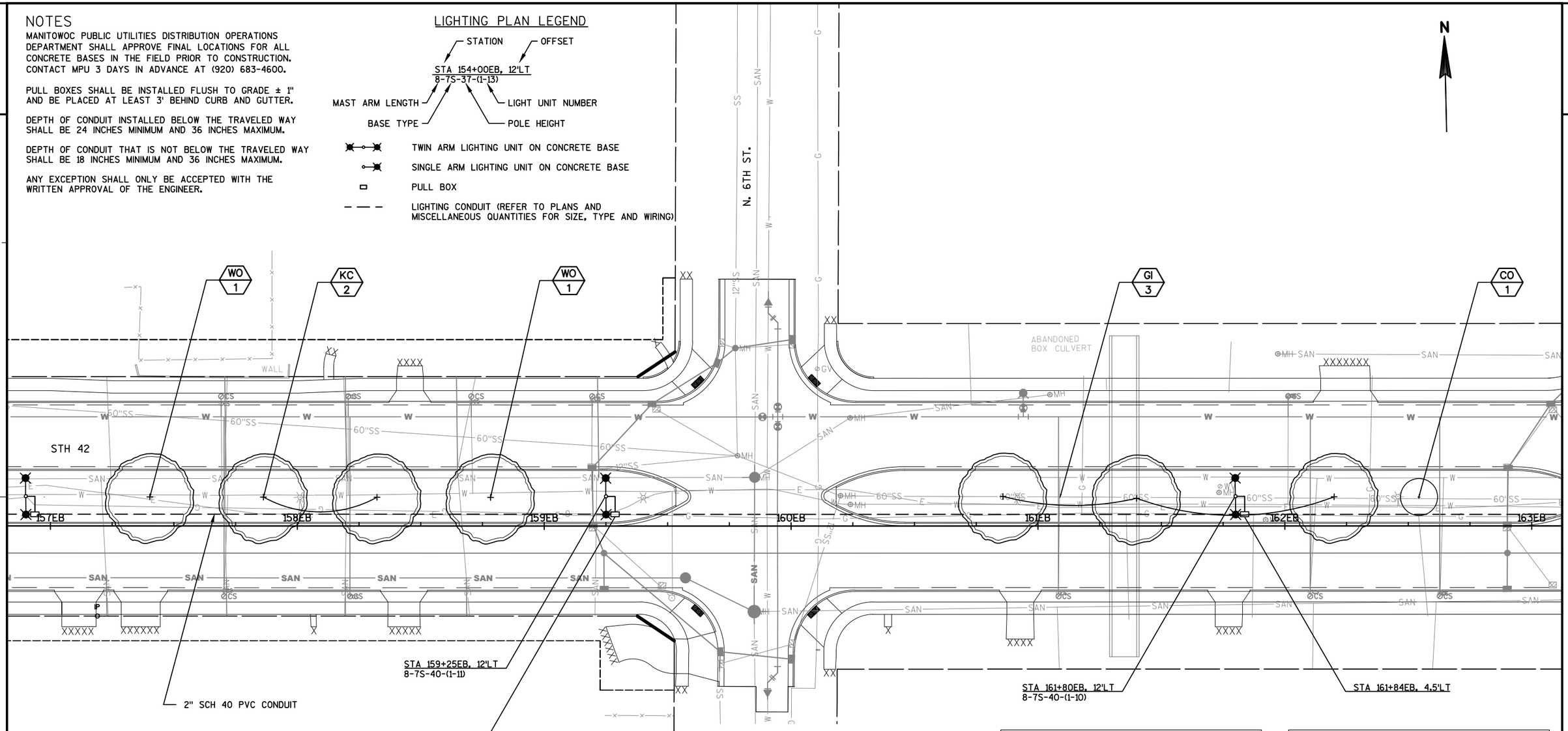
STATION — OFFSET

STA 154+00EB, 12'LT
8-7S-37-(1-13)

MAST ARM LENGTH — LIGHT UNIT NUMBER

BASE TYPE — POLE HEIGHT

- TWIN ARM LIGHTING UNIT ON CONCRETE BASE
- SINGLE ARM LIGHTING UNIT ON CONCRETE BASE
- PULL BOX
- LIGHTING CONDUIT (REFER TO PLANS AND MISCELLANEOUS QUANTITIES FOR SIZE, TYPE AND WIRING)



NOTES:
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2. TREE PLACEMENT GUIDELINE:
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   B. 10' FROM A DRIVEWAY
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   D. 40' FROM A STREET LIGHT OR UTILITY POLE
   E. 10' FROM A FIRE HYDRANT

PLANT LIST

Symbol	Common Name	Quantity on sheet
LARGE TREES		
GI	Autumn Gold ginkgo	3
HA	Common hackberry	
KC	Espresso Kentucky coffeetree	2
RE	Regal elm	
RM	Red maple	
RL	Redmond linden	
SH	Skyline honeylocust	
WO	Swamp white oak	2

SMALL TREES		
AS	Autumn Brilliance serviceberry	
BS	Colorado blue spruce	
CH	Schubert Chokecherry	
CO	Crusader thornless cockspur hawthorn	
SS	Spring Snow crabapple	1
SHRUBS, GRASSES, & PERENNIALS		
CJ	Plumosa creeping juniper	
St	Staghorn sumac	
wl	Walker's Low blue catmint	

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	LIGHTING AND LANDSCAPING PLAN	SHEET 215	E

NOTES

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LIGHTING PLAN LEGEND

STATION — OFFSET

STA 154+00EB, 12'LT
8-7S-37-(1-13)

MAST ARM LENGTH — LIGHT UNIT NUMBER

BASE TYPE — POLE HEIGHT

- TWIN ARM LIGHTING UNIT ON CONCRETE BASE
- SINGLE ARM LIGHTING UNIT ON CONCRETE BASE
- PULL BOX
- LIGHTING CONDUIT (REFER TO PLANS AND MISCELLANEOUS QUANTITIES FOR SIZE, TYPE AND WIRING)

N

N. 5TH ST.

STH 42

STA 164+85EB, 90'LT
PB-6A
INSTALL PULL BOX
ADJACENT TO PAD
MOUNT TRANSFORMER

CO 2 | SH 2 | HA 2 | RE 2 | RL 2 | RE 1

163EB | 164EB | 165EB | 166EB | 167EB | 168EB | 169EB

STA 164+85EB, 4.5'LT
PB-6

STA 166+80EB, 12'LT
8-7S-40-(1-8)

STA 166+84EB, 4.5'LT

STA 164+35EB, 12'LT
8-7S-40-(1-9)

2" SCH 40 PVC CONDUIT

STA 164+39EB, 4.5'LT

NOTES:
1. MAKE MINOR ADJUSTMENTS TO TREE LOCATIONS TO AVOID OBSTACLES.
2. TREE PLACEMENT GUIDELINE:
   A. 30' FROM ANY STREET CORNER
   B. 10' FROM A DRIVEWAY
   C. 10' FROM A GAS/WATER VALVE
   D. 40' FROM A STREET LIGHT OR UTILITY POLE
   E. 10' FROM A FIRE HYDRANT

PLANT LIST		
Symbol	Common Name	Quantity on sheet
LARGE TREES		
GI	Autumn Gold ginkgo	
HA	Common hackberry	2
KC	Espresso Kentucky coffeetree	
RE	Regal elm	3
RM	Red maple	
RL	Redmond linden	2
SH	Skyline honeylocust	2
WO	Swamp white oak	

SMALL TREES		
AS	Autumn Brilliance serviceberry	
BS	Colorado blue spruce	
CH	Schubert Chokecherry	
CO	Crusader thornless cockspur hawthorn	2
SS	Spring Snow crabapple	
SHRUBS, GRASSES, & PERENNIALS		
CJ	Plumosa creeping juniper	
St	Staghorn sumac	
wl	Walker's Low blue catmint	

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	LIGHTING AND LANDSCAPING PLAN	SHEET 216	E

NOTES

MANITOWOC PUBLIC UTILITIES DISTRIBUTION OPERATIONS DEPARTMENT SHALL APPROVE FINAL LOCATIONS FOR ALL CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION. CONTACT MPU 3 DAYS IN ADVANCE AT (920) 683-4600.

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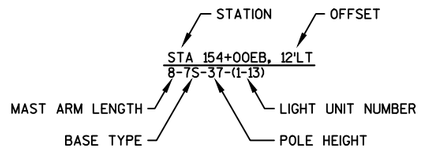
LIGHTING PLAN LEGEND



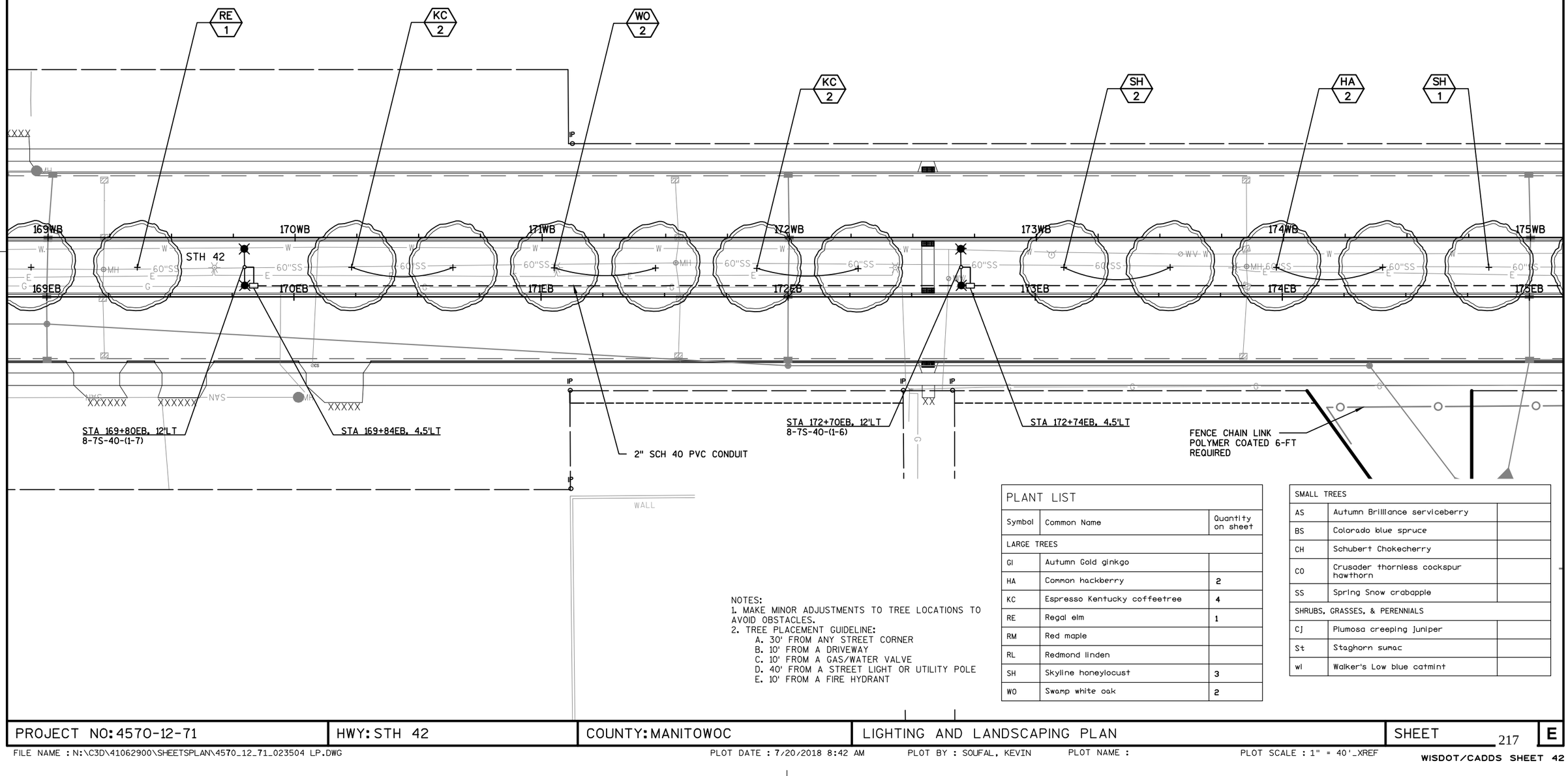
TWIN ARM LIGHTING UNIT ON CONCRETE BASE

SINGLE ARM LIGHTING UNIT ON CONCRETE BASE

PULL BOX

LIGHTING CONDUIT (REFER TO PLANS AND MISCELLANEOUS QUANTITIES FOR SIZE, TYPE AND WIRING)

N



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   D. 40' FROM A STREET LIGHT OR UTILITY POLE
   E. 10' FROM A FIRE HYDRANT

PLANT LIST		
Symbol	Common Name	Quantity on sheet
LARGE TREES		
GI	Autumn Gold ginkgo	
HA	Common hackberry	2
KC	Espresso Kentucky coffeetree	4
RE	Regal elm	1
RM	Red maple	
RL	Redmond linden	
SH	Skyline honeylocust	3
WO	Swamp white oak	2

SMALL TREES		
AS	Autumn Brilliance serviceberry	
BS	Colorado blue spruce	
CH	Schubert Chokecherry	
CO	Crusader thornless cockspur hawthorn	
SS	Spring Snow crabapple	
SHRUBS, GRASSES, & PERENNIALS		
CJ	Plumosa creeping juniper	
St	Staghorn sumac	
wl	Walker's Low blue catmint	

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	LIGHTING AND LANDSCAPING PLAN	SHEET 217	E

NOTES

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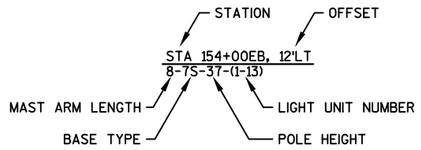
LIGHTING PLAN LEGEND



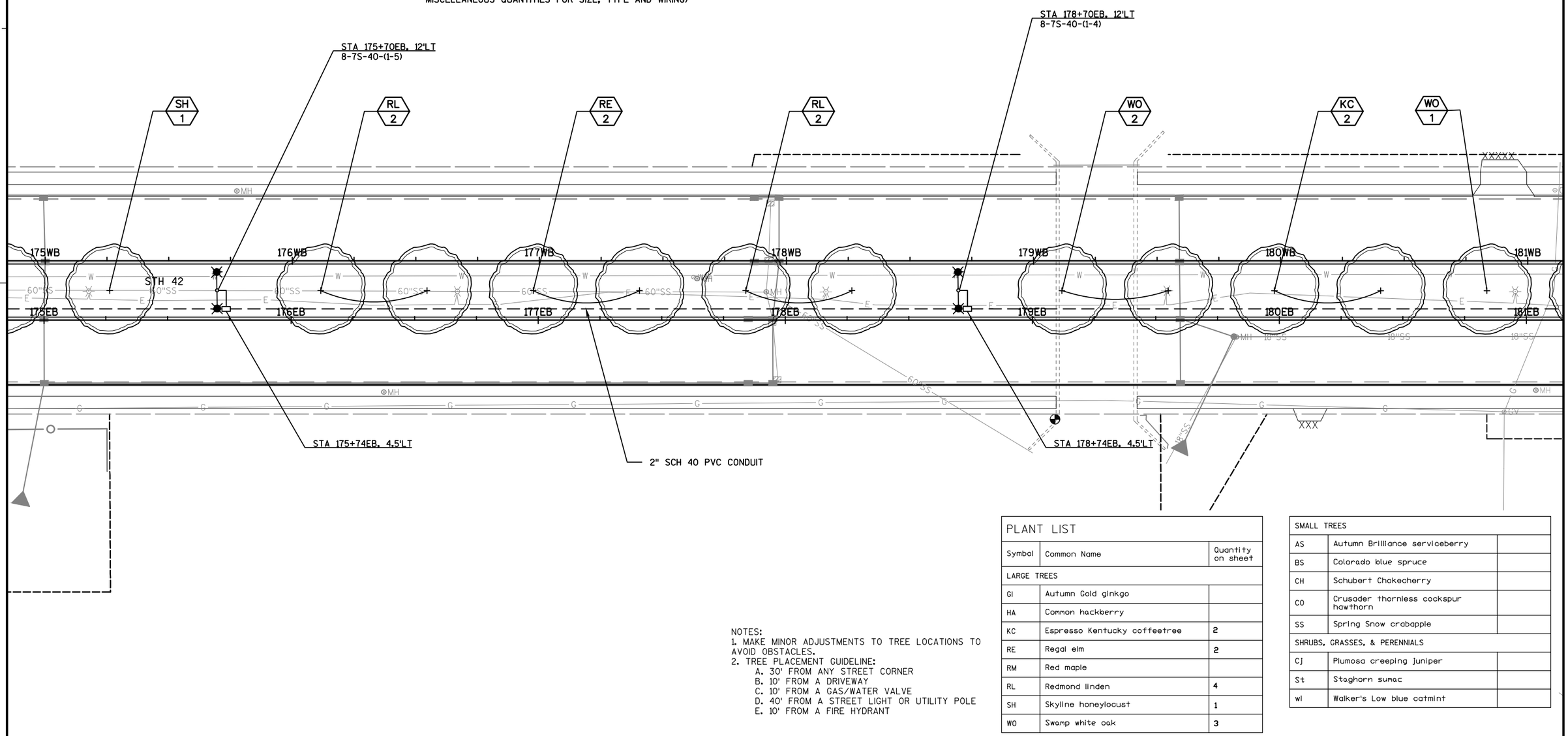
TWIN ARM LIGHTING UNIT ON CONCRETE BASE

SINGLE ARM LIGHTING UNIT ON CONCRETE BASE

PULL BOX

LIGHTING CONDUIT (REFER TO PLANS AND MISCELLANEOUS QUANTITIES FOR SIZE, TYPE AND WIRING)

N



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   A. 30' FROM ANY STREET CORNER
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   D. 40' FROM A STREET LIGHT OR UTILITY POLE
   E. 10' FROM A FIRE HYDRANT

PLANT LIST		
Symbol	Common Name	Quantity on sheet
LARGE TREES		
GI	Autumn Gold ginkgo	
HA	Common hackberry	
KC	Espresso Kentucky coffeetree	2
RE	Regal elm	2
RM	Red maple	
RL	Redmond linden	4
SH	Skyline honeylocust	1
WO	Swamp white oak	3

SMALL TREES		
AS	Autumn Brilliance serviceberry	
BS	Colorado blue spruce	
CH	Schubert Chokecherry	
CO	Crusader thornless cockspur hawthorn	
SS	Spring Snow crabapple	
SHRUBS, GRASSES, & PERENNIALS		
CJ	Plumosa creeping juniper	
St	Staghorn sumac	
wl	Walker's Low blue catmint	

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	LIGHTING AND LANDSCAPING PLAN	SHEET 218	E

NOTES

MANITOWOC PUBLIC UTILITIES DISTRIBUTION OPERATIONS DEPARTMENT SHALL APPROVE FINAL LOCATIONS FOR ALL CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION. CONTACT MPU 3 DAYS IN ADVANCE AT (920) 683-4600.

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ANY EXCEPTION SHALL ONLY BE ACCEPTED WITH THE WRITTEN APPROVAL OF THE ENGINEER.

LIGHTING PLAN LEGEND

STATION — OFFSET

STA 154+00EB, 12'LT
8-7S-37-(1-13)

MAST ARM LENGTH — LIGHT UNIT NUMBER

BASE TYPE — POLE HEIGHT

- TWIN ARM LIGHTING UNIT ON CONCRETE BASE
- SINGLE ARM LIGHTING UNIT ON CONCRETE BASE
- PULL BOX
- LIGHTING CONDUIT (REFER TO PLANS AND MISCELLANEOUS QUANTITIES FOR SIZE, TYPE AND WIRING)

N

STA 181+74EB, 53.5'LT
PB-5
INSTALL PULL BOX
ADJACENT TO MPU
POLE "5E7336"

STA 184+81EB, 19.5'LT

WO 1

HA 2

SH 1

STH 42

181EB 182EB 183EB 184EB 185EB 186EB 187EB

STA 181+70EB, 12'LT
8-7S-40-(1-3)

STA 181+74EB, 4.5'LT

2" SCH 40 PVC CONDUIT

SS 2

STA 184+50EB, 4.5'LT
APPROXIMATE LOCATION
OF BEND TO CONDUIT

STA 184+85EB, 12'LT
8-7S-40-(1-2)

SH 2

AS 3

NOTES:
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2. TREE PLACEMENT GUIDELINE:
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   C. 10' FROM A GAS/WATER VALVE
   D. 40' FROM A STREET LIGHT OR UTILITY POLE
   E. 10' FROM A FIRE HYDRANT

PLANT LIST

Symbol	Common Name	Quantity on sheet
LARGE TREES		
GI	Autumn Gold ginkgo	
HA	Common hackberry	2
KC	Espresso Kentucky coffeetree	
RE	Regal elm	
RM	Red maple	
RL	Redmond linden	
SH	Skyline honeylocust	3
WO	Swamp white oak	1

SMALL TREES		
AS	Autumn Brilliance serviceberry	3
BS	Colorado blue spruce	
CH	Schubert Chokecherry	
CO	Crusader thornless cockspur hawthorn	
SS	Spring Snow crabapple	2
SHRUBS, GRASSES, & PERENNIALS		
CJ	Plumosa creeping juniper	
St	Staghorn sumac	
wl	Walker's Low blue catmint	

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	LIGHTING AND LANDSCAPING PLAN	SHEET 219	E

PLANT LIST		
Symbol	Common Name	Quantity on sheet
LARGE TREES		
GI	Autumn Gold ginkgo	
HA	Common hackberry	
KC	Espresso Kentucky coffeetree	
RE	Regal elm	
RM	Red maple	
RL	Redmond linden	
SH	Skyline honeylocust	
WO	Swamp white oak	

SMALL TREES		
AS	Autumn Brilliance serviceberry	8
BS	Colorado blue spruce	11
CH	Schubert Chokecherry	
CO	Crusader thornless cockspur hawthorn	3
SS	Spring Snow crabapple	
SHRUBS, GRASSES, & PERENNIALS		
CJ	Plumosa creeping juniper	111
St	Staghorn sumac	
wl	Walker's Low blue catmint	228

NOTES:
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   C. 10' FROM A GAS/WATER VALVE
   D. 40' FROM A STREET LIGHT OR UTILITY POLE
   E. 10' FROM A FIRE HYDRANT

N

STA 191+80EB, 94'LT

STA 2+91RCC, 55'LT
PB-1
INSTALL PULL BOX ADJACENT TO MPU POLE "5E7973"

STA 3+21 RCC, 51'LT

STA 3+23 RCC, 49'LT
15-7S-40-(3-3)

STA 191+76EB, 94'LT
15-7S-40-(3-5)

CONCRETE SIDEWALK
4-INCH COLORING
CONCRETE RED
(NO STAMPING)

STA 2+92RCC, 52'LT
15-7S-40-(3-4)

STA 190+88EB, 118'LT

SHOVEL CUT EDGE (SEE CONSTRUCTION DETAIL)

STA 188+72EB, 92'LT

STA 188+71EB, 88'LT
15-7S-40-(3-2)

2" SCH 40 PVC CONDUIT

STA 188+25EB, 54'LT

STA 188+22EB, 54'LT
15-7S-40-(3-1)

STA 187+25EB, 10'LT

SWITCHGRASS SEED

BS 5

wl 76

AS 2

193EB

192EB

188EB

187EB

STH 42

STA 191+12EB, 4.5'LT
PB-3

STA 191+65EB, 34'RT
PB-2

STA 191+15EB, 33'RT
15-7S-40-(3-6)

STA 191+12EB, 35'RT

STA 190+82EB, 35'RT
15-7S-40-(3-7)

STA 190+80EB, 38'RT

2" SCH 40 PVC CONDUIT

STA 190+54EB, 68'RT
15-7S-40-(3-8)

STA 190+55EB, 71'RT

STA 1+78RCC, 112'RT
15-7S-40-(3-9)

STA 1+78RCC, 114'RT

STA 1+43RCC, 67'RT
15-7S-40-(3-10)

STA 1+41RCC, 80'RT

STA 1+07RCC, 68'RT

STA 187+25EB, 7'LT
8-7S-40-(1-1)

STA 187+98EB, 50'RT
15-7S-40-(3-13)

SWITCHGRASS SEED

STA 188+00EB, 50'RT

STA 187+63EB, 88'RT
PB-4
INSTALL PULL BOX ADJACENT TO MPU POLE "5E6958"

STA 0+84RCC, 58'RT
15-7S-40-(3-12)

STA 0+85RCC, 57'RT

STA 1+05RCC, 67'RT
15-7S-40-(3-11)

STA 1+15RCC, 92'RT

CO 3

Cj 14

wl 17

Cj 9

wl 30

AS 3

wl 20

BS 3

28RCC

1RCC

24"CS

LIGHTING PLAN LEGEND

STATION — OFFSET

STA 154+00EB, 12'LT
8-7S-37-(1-13)

MAST ARM LENGTH — LIGHT UNIT NUMBER

BASE TYPE — POLE HEIGHT

TWIN ARM LIGHTING UNIT ON CONCRETE BASE

SINGLE ARM LIGHTING UNIT ON CONCRETE BASE

PULL BOX

LIGHTING CONDUIT (REFER TO PLANS AND MISCELLANEOUS QUANTITIES FOR SIZE, TYPE AND WIRING)

NOTES

MANITOWOC PUBLIC UTILITIES DISTRIBUTION OPERATIONS DEPARTMENT SHALL APPROVE FINAL LOCATIONS FOR ALL CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION. CONTACT MPU 3 DAYS IN ADVANCE AT (920) 683-4600.

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PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	LIGHTING AND LANDSCAPING PLAN	SHEET 220	E

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

MOUNTING OF ANY SIGNS ON TRAFFIC SIGNALS SHALL BE 5'-3" +/-.

NEW STOP SIGNS PLACED SHALL HAVE A MINIMUM OF 6'-6" CLEARANCE ABOVE THE ROADWAY. THIS WILL ALLOW FOR THE PLACEMENT OF FUTURE SIGNS BENEATH THE STOP SIGN.

ALL OF THE WAYFINDING AND STREET NAME SIGNAGE WILL BE REMOVED AND REPLACED BY THE CITY OF MANITOWOC.

SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW

N

CTH R/N. RAPIDS RD.

121 DO NOT ENTER R5-1 30"X30"

122A COUNTY R 10 42 J13-3 72"X45"

122B 10 42 J13-2 48"X45"

123 STOP R1-1F 36"X36" MOUNT TO SIGNAL

124 STOP R1-1F 36"X36" MOUNT TO SIGNAL

125 R4-7 24"X30" MOUNT TO SIGNAL

126 YIELD R1-2 36"X31"

127 STOP R1-1F 36"X36" MOUNT TO SIGNAL

128 STOP R1-1F 36"X36" MOUNT TO SIGNAL

129 R4-7 24"X30" MOUNT TO SIGNAL

130A WEST SOUTH 10 42 COUNTY R J2-3 72"X57"

130B COUNTY R J13-1 24"X45"

131 132 TRUCK ROUTE R14-1 24"X18" M6-6 21"X21"

133 R8-3 24"X24"

134 Rockwood D1-1 72"X15"

135 W3-3 36"X36"

136A WEST SOUTH TO 10 42 43 J4-3 72"X36"

136B WEST SOUTH 10 42 J4-2 48"X36"

219 SPEED LIMIT 35 R2-1 24"X30"

31WB 32WB 34WB 36WB 38WB 40WB 42WB USH 10/WALDO BLVD WB 44WB 46WB

31EB 32EB 34EB 36EB 38EB 40EB 42EB 44EB 46EB

USH 10/WALDO BLVD EB

101 R4-7 24"X30" MOUNT TO SIGNAL

102 STOP R1-1F 36"X36" MOUNT TO SIGNAL

103 STOP R1-1F 36"X36" MOUNT TO SIGNAL

104 COUNTY R J13-1 24"X45"

105 10 42 COUNTY R J13-3 72"X45"

106 R4-7 24"X30" MOUNT TO SIGNAL

107 STOP R1-1F 36"X36" MOUNT TO SIGNAL

108 STOP R1-1F 36"X36" MOUNT TO SIGNAL

109 DO NOT ENTER R5-1 30"X30"

110A COUNTY R 10 42 J13-3 72"X45"

111 EAST NORTH 10 42 J4-2 48"X36"

1108 10 42 J13-2 48"X45"

112 W4-1R 36"X36"

113 R8-3 24"X24"

114 YIELD R1-2 36"X31"

115 YIELD R1-2 36"X31"

116 DO NOT ENTER R5-1 30"X30"

117 SPEED LIMIT 35 R2-1 24"X30"

118 R8-3 24"X24"

119 SPEED LIMIT 35 R2-1 24"X30"

120 R4-7 24"X30"

N. 40TH ST.

WISCONSIN
ANDREW W. BLOCK
E-41224-6
APPLETON
WI.
PROFESSIONAL ENGINEER

7/20/2018

PERMANENT SIGNING PLANS
DESIGNED BY JT ENGINEERING, INC.

PROJECT NO: 1500-47-71	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\SIGNING\023201_PS.DWG PLOT DATE : 7/19/2018 4:03 PM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1in:100ft_XREF

WISDOT/CADDS SHEET 42

2

N

48WB 50WB 52WB 54WB 56WB USH 10/WALDO BLVD WB 58WB 60WB 62WB

48EB 50EB 52EB 54EB 56EB USH 10/WALDO BLVD EB 58EB 60EB 62EB

N. 40TH ST.

GLENVIEW DR.

W. CRESCENT DR.

219	SPEED LIMIT 35 R2-1 24"X30"		
220	SPEED LIMIT 35 R2-1 24"X30"		
221	JCT COUNTY R J1-1 24"X39"		
222	JCT COUNTY R J1-1 24"X39"		
223	R8-3 24"X24"		
224	R4-7 24"X30"		
225	R8-3 24"X24"		
227	R8-3 24"X24"		
228	WEST SOUTH TO AUTOPISTA 10 42 43 J4-3 72"X36"		
229	R4-7 24"X30"		
230	W11-2 30"X30"		
231	W16-7L 24"X12"		
232	SPEED LIMIT 35 R2-1 24"X30"		
233	R8-3 24"X24"		
234	SPEED LIMIT 35 R2-1 24"X30"		
308	R8-3 24"X24"		
120	R4-7 24"X30"		
201	STOP R1-1 36"X36"		
202	R8-3 24"X24"		
203	SPEED LIMIT 35 R2-1 24"X30"		
204	R8-3 24"X24"		
205	SPEED LIMIT 35 R2-1 24"X30"		
206	W11-2 30"X30"		
207	W16-7L 24"X12"		
208	W11-2 30"X30"		
209	STOP R1-1 36"X36"		
210	EAST NORTH 10 42 J4-2 48"X36"		
211	R8-3 24"X24"		
212A	NO ENGINE BRAKING EXCEPT IN EMERGENCY R10-64 30"X36"		
212B	WITHIN CITY or VILLAGE LIMITS R10-64F 42"X24"		
213	R8-3 24"X24"		
214	STOP R1-1 36"X36"		
215	SPEED LIMIT 35 R2-1 24"X30"		
216	R8-3 24"X24"		
217	SPEED LIMIT 35 R2-1 24"X30"		
218	R8-3 24"X24"		

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

MOUNTING OF ANY SIGNS ON TRAFFIC SIGNALS SHALL BE 5'-3" +/-.

NEW STOP SIGNS PLACED SHALL HAVE A MINIMUM OF 6'-6" CLEARANCE ABOVE THE ROADWAY. THIS WILL ALLOW FOR THE PLACEMENT OF FUTURE SIGNS BENEATH THE STOP SIGN.

ALL OF THE WAYFINDING AND STREET NAME SIGNAGE WILL BE REMOVED AND REPLACED BY THE CITY OF MANITOWOC.

SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW

PROJECT NO: 1500-47-71	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET 222	E

2

N

MOUNT TO LIGHT POLE

R8-3 24"X24" 308

R4-7 24"X30" 309

SPEED LIMIT 35 R2-1 24"X30" 310

SPEED LIMIT 35 R2-1 24"X30" 311

R8-3 24"X24" 312

SPEED LIMIT 35 R2-1 24"X30" 313

R8-3 24"X24" 314

WEST 10 SOUTH 42 J4-2 48"X36" 315

STOP R1-1 36"X36" 316

R4-7 24"X30" 317

SPEED LIMIT 35 R2-1 24"X30" 318

FLEETWOOD DR.

USH 10/WALDO BLVD WB

USH 10/WALDO BLVD EB

62WB 64WB 66WB 68WB 70WB 72WB 74WB 76WB

62EB 64EB 66EB 68EB 70EB 72EB 74EB 76EB

E. CRESCENT DR.

301 R8-3 24"X24"

302 STOP R1-1 36"X36"

303 R8-3 24"X24"

304 R8-3 24"X24"

305 SPEED LIMIT 35 R2-1 24"X30"

306 R8-3 24"X24"

307 EAST 10 NORTH 42 J4-2 48"X36"

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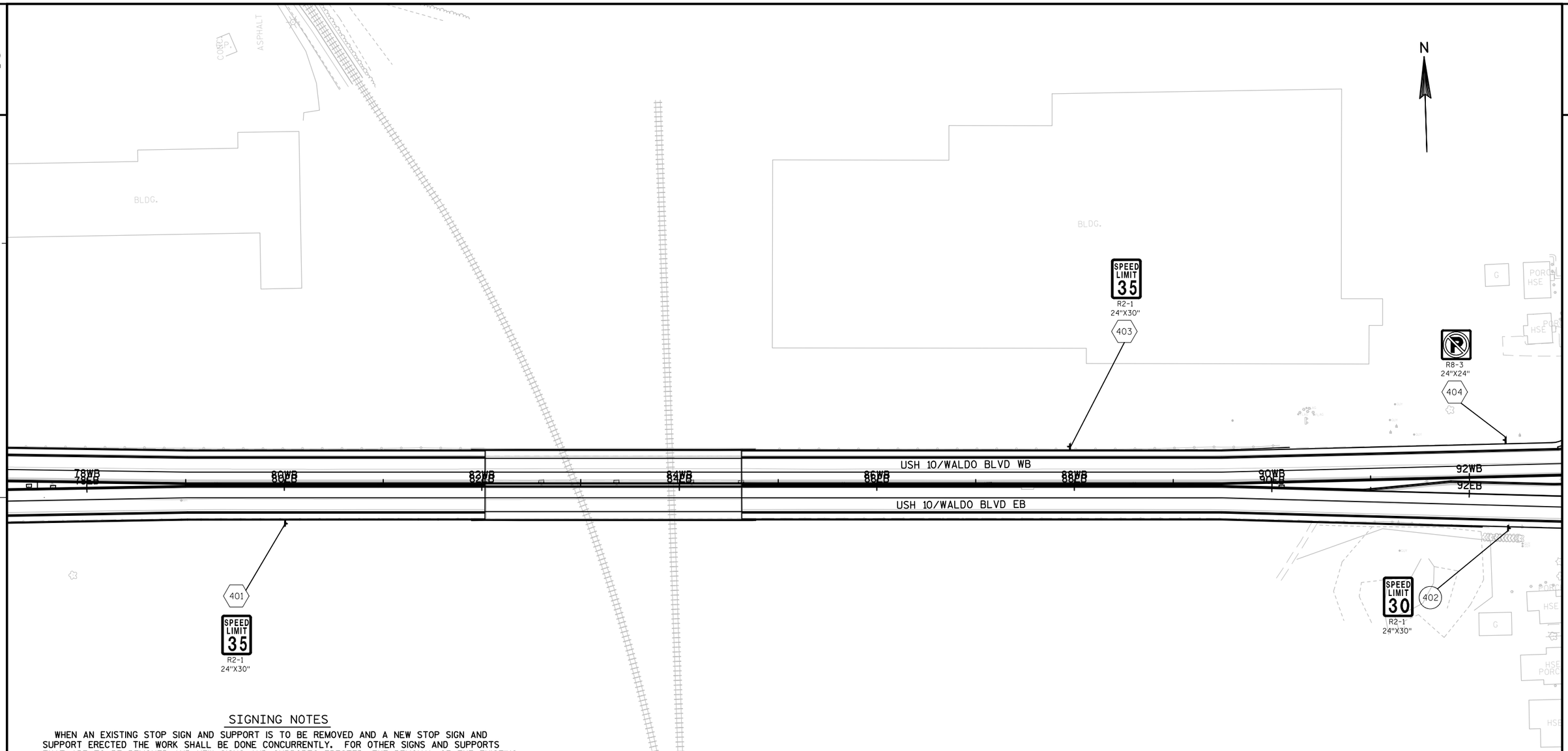
SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW

PROJECT NO: 1500-37/47-71	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET 223	E

2



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SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET 224	E

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

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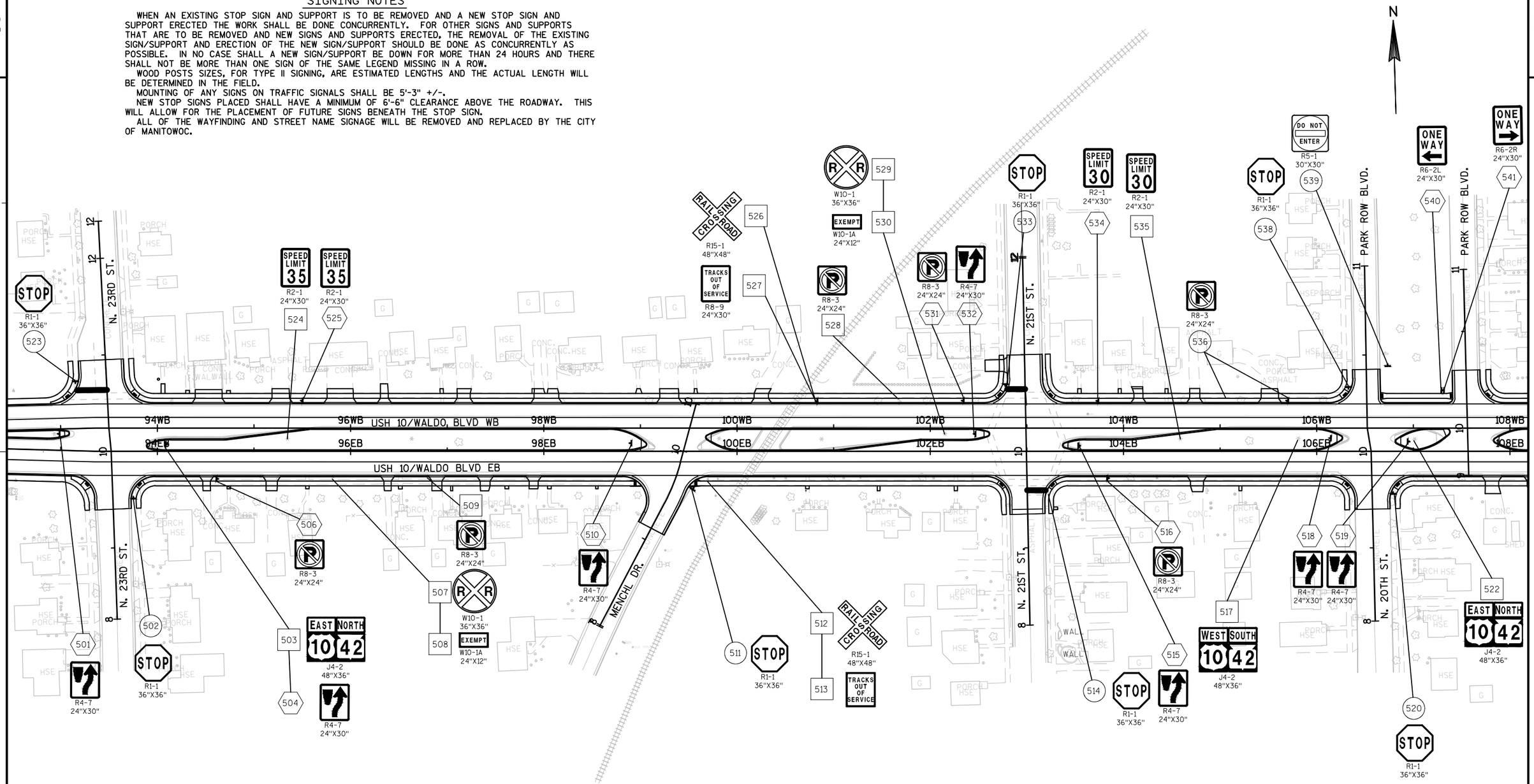

SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET 225 E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\SIGNING\023201_PS.DWG PLOT DATE : 7/12/2018 2:51 PM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1in:100ft_XREF

2

SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW

N

ELM ST.

N. 18TH ST.

N. 17TH ST.

USH 10/WALDO BLVD WB

USH 10/WALDO BLVD EB

108WB 110WB 112WB 114WB 116WB 118WB 120WB 122WB

108EB 110EB 112EB 114EB 116EB 118EB 120EB 122EB

601 SPEED LIMIT 25 R2-1 24"X30"

602 TRUCK ROUTE R14-1 MOD.

603 SPEED LIMIT 25 R2-1 24"X30"

604 S1-1 36"X36" AHEAD S16-9P 30"X18"

605 S1-1 36"X36" AHEAD S16-9P 30"X18"

606 S1-1 36"X36" S16-7R

607

608 STOP R1-1F 30"X30"

609 R3-4 24"X24"

610 STOP R1-1F 30"X30"

611 S1-1 36"X36"

612 STOP R1-1F 30"X30"

613 S1-1 36"X36"

614 R8-3 24"X24"

615 EAST 10 NORTH 42 J4-2 48"X36"

616 R8-3 24"X24"

617 R8-3 24"X24"

618 WEST 10 SOUTH 42 J4-2 48"X36"

619 SPEED LIMIT 25 R2-1 24"X30"

620 S1-1 36"X36"

621 S16-7L 30"X18"

622 STOP R1-1F 30"X30"

623 S1-1 36"X36" S16-7L 30"X18"

624 STOP R1-1F 30"X30"

625

626 S1-1 36"X36" AHEAD S16-9P 30"X18" STOP R1-1F 30"X30"

627A S1-1 36"X36" AHEAD S16-9P 30"X18" LEFT LANE MUST TURN LEFT R3-7L 30"X30"

627B

628

629A S1-1 36"X36" AHEAD S16-9P 30"X18"

629B

729A TO INTERSTATE 43 J22-1MOD.

729B LEFT LANE MUST TURN LEFT R3-7L 30"X30"

739 TRUCK ROUTE R14-1 MOD.

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PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET 226 E

SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW

N

STOP R1-1 36"X36" 724

R4-7 24"X30" 725

SPEED LIMIT 25 R2-1 24"X30" 726

R8-3 24"X24" 728

STOP R1-1F 36"X36" 730

STOP R1-1F 36"X36" 731

R4-7 24"X30" 732

STOP R1-1F 36"X36" 733

JH-1 24"X24" 734

M6-1 21"X21" 735

LEFT LANE MUST TURN LEFT R3-7L 30"X30" 736

STOP R1-1 36"X36" 741

NO OUTLET W14-2 30"X30" 742

ELM ST.

N. 18TH ST.

N. 17TH ST.

USH 10/WALDO ,BLVD WB

USH 10/WALDO BLVD EB

108WB 108EB 110WB 110EB 112WB 112EB 114WB 114EB 116WB 116EB 118WB 118EB 120WB 120EB 122WB 122EB

SPEED LIMIT 25 R2-1 24"X30" 701

JH-1 24"X45" MB6-1 703

R8-3 24"X24" 705

SPEED LIMIT 25 R2-1 24"X30" 706

BEGIN LEFT TURN LANE R3-20L 24"X36" 707

W3-3 36"X36" 708

S1-1 36"X36" AHEAD S16-9P FINES HIGHER R2-6P 24"X18" 709A 709B 710

TURNING VEHICLES TO R10-15-R 30"X30" 711

R4-7 24"X30" 712

R3-4 24"X24" 713

S1-1 36"X36" 714

S16-7R 30"X18" 715

STOP R1-1F 36"X36" 716

STOP R1-1F 36"X36" MOUNT TO SIGNAL 717

STOP R1-1F 36"X36" MOUNT TO SIGNAL 718

STOP R1-1F 36"X36" MOUNT TO SIGNAL 719

R8-3 24"X24" 721

SPEED LIMIT 25 R2-1 24"X30" 722

STOP R1-1 36"X36" 723

SIGNING NOTES

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ALL OF THE WAYFINDING AND STREET NAME SIGNAGE WILL BE REMOVED AND REPLACED BY THE CITY OF MANITOWOC.

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET 227	E

2

N

USH 10/WALDO BLVD WB

USH 10/WALDO BLVD EB

N. 16TH ST.

N. 15TH ST.

N. 14TH ST.

N. 13TH ST.

N. 12TH ST.

MENASHA AVE.

124WB 124EB 126WB 126EB 128WB 128EB 130WB 130EB 132WB 132EB 134WB 134EB 136WB 136EB 138WB

848 R1-1 36"X36" STOP

849 W14-2 30"X30" NO OUTLET

846 J4-2 48"X36" WEST 10 SOUTH 42

845 R8-3 24"X24"

847 R8-3 24"X24"

850 R4-7 24"X30"

851 R8-3 24"X24"

854 R2-1 24"X30" SPEED LIMIT 25

853 R8-3 24"X24"

852 R2-1 24"X30" SPEED LIMIT 25

855 R1-1 36"X36" STOP

INSTALL ON RECTANGULAR RAPID FLASHING BEACON BASE AND POLE

856 857 S1-1 36"X36" S16-7L 30"X18"

859 860 S1-1 36"X36" S16-7R 30"X18"

INSTALL ON RECTANGULAR RAPID FLASHING BEACON BASE AND POLE

862 R1-1 36"X36" STOP

858 R4-7 24"X30"

861 R4-7 24"X30"

863 864 S1-1 36"X36" S16-7L 30"X18"

865 866 S1-1 36"X36" S16-7R 30"X18"

881 R1-1 36"X36" STOP

868 S4-51 24"X48" SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT

867 R8-3 24"X24"

869 870 871 S1-1 36"X36" AHEAD S16-9P 30"X18"

R8-3 24"X24"

872 R1-1 30"X30" STOP

874 875 S1-1 36"X36" AHEAD S16-9P 30"X18"

876 R1-1 36"X36" STOP

873 R7-2L 18"X24" NO PARKING 3:00 AM TO 7:00 PM

877 878 S1-1 36"X36" AHEAD S16-9P 30"X18"

879 J2-2 48"X57" NORTH 42 EAST 10

880 R3-20L 24"X36" BEGIN LEFT TURN LANE

801 802 S1-1 36"X36" AHEAD S16-9P 30"X18"

803 804 S1-1 36"X36" AHEAD S16-9P 30"X18"

805 R1-1 36"X36" STOP

806 R4-7 24"X30"

807 S4-51 24"X48" SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT

808 809 S4-51 24"X48" SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT R8-3 24"X24"

810 811 S1-1 36"X36" S16-7L 30"X18"

INSTALL ON RECTANGULAR RAPID FLASHING BEACON BASE AND POLE

812 813 S1-1 36"X36" S16-7R 30"X18"

INSTALL ON RECTANGULAR RAPID FLASHING BEACON BASE AND POLE

815 R1-1 36"X36" STOP

814 R4-7 24"X30" MOUNT BELOW SIGN #860

816 817 S1-1 36"X36" S16-7R 30"X18"

818 819 S1-1 36"X36" S16-7L 30"X18"

820 R4-7 24"X30"

822 R8-3 24"X24"

821 R1-1 36"X36" STOP

823 R2-1 24"X30" SPEED LIMIT 25

824A R14-1MOD. TO TRUCK ROUTE

824B 824C M6-1 21"X21" TRUCK ROUTE R14-1 24"X18"

825 R1-1 36"X36" STOP

826 R4-7 24"X30"

827 R8-3 24"X24"

828 S4-51 24"X48" SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT

829A 829B M2-1 21"X15" JCT BUSINESS 42 J4-1 24"X36"

830A 830B 830C TRUCK ROUTE 1 BLOCK TRUCK ROUTE R14-1 24"X18" M6-1 21"X21"

831 R5-1 30"X30" DO NOT ENTER

832 R1-1 36"X36" STOP

833 834 RIGHT TURN ONLY NO PARKING 3:00 AM TO 7:00 PM R7-2L 18"X24"

835 R1-1 36"X36" STOP

836 837 R5-1 30"X30" DO NOT ENTER M6-2 21"X12"

838 R6-2R 24"X30" ONE WAY

839 R1-1 36"X36" STOP

840 841 S1-1 36"X36" AHEAD S16-9P 30"X18"

844 R8-3 24"X24"

SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW

SIGNING NOTES

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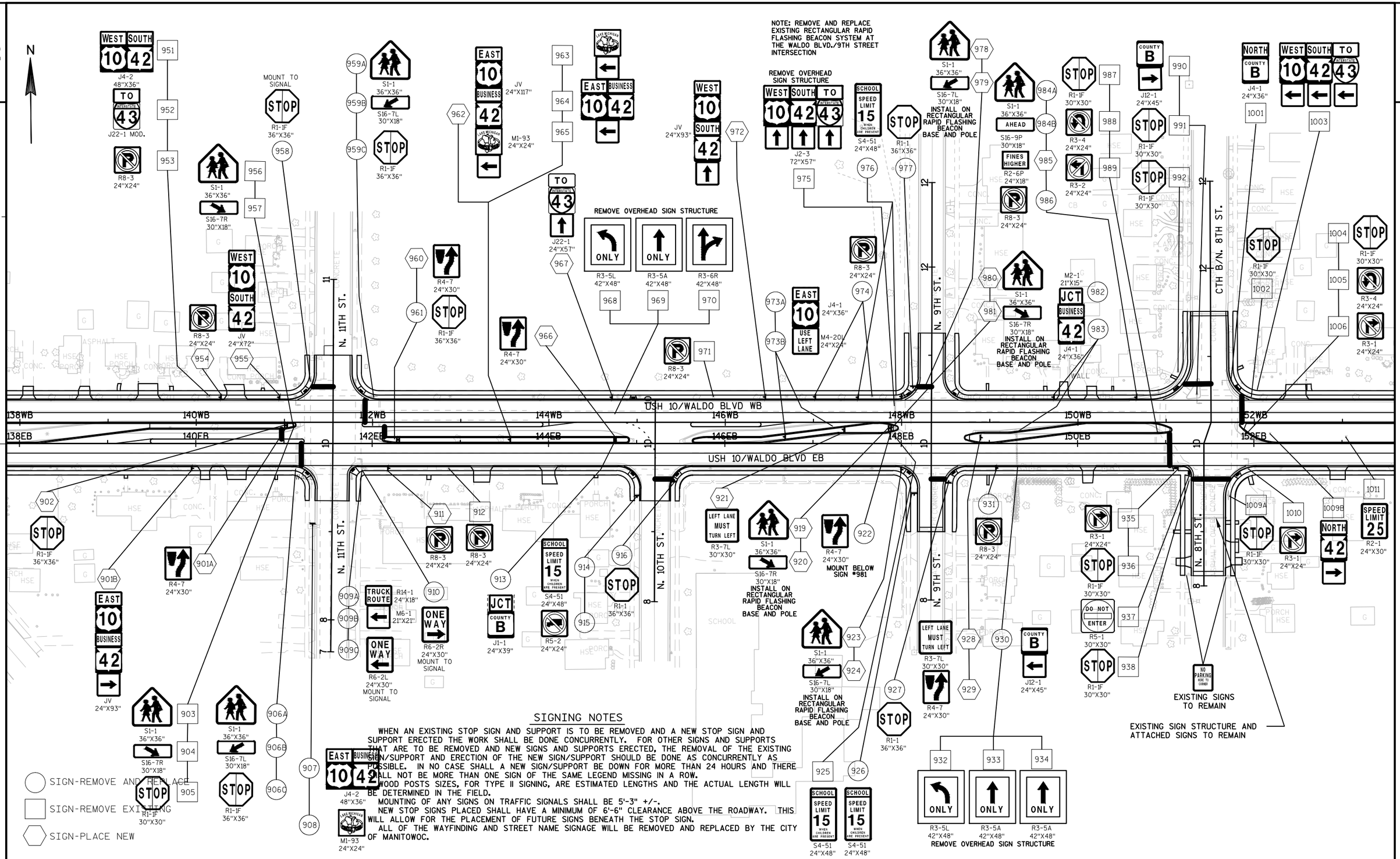
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET 228	E



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PROJECT NO: 1500-37-71 & 4570-12-71	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET 229	E

2

N

STH 42 SB/WALDO BLVD WB

STH 42 NB /WALDO BLVD EB

CTH B/ N. 8TH ST.

LINCOLN BLVD.

LINCOLN BLVD.

N. 6TH ST.

N. 5TH ST.

MOUNT TO SIGNAL
STOP
R1-1F 36"X36"
1127
1131
1128
1129
1130
R3-4 24"X24"
R3-2 24"X24"
R4-7 24"X30"

MOUNT TO SIGNAL
STOP
R1-1F 36"X36"

MOUNT TO SIGNAL
NORTH
COUNTY B
J4-1 24"X36"
1132

MOUNT TO SIGNAL
WEST SOUTH
10 42
J2-2 48"X57"
1104
1133

MOUNT TO SIGNAL
STOP
R1-1F 36"X36"
COUNTY B
J12-1 24"X45"
1134

STOP
R1-1 36"X36"
1141

STOP
R1-1 36"X36"
1142

DO NOT ENTER
R5-1 30"X30"
1143

SOUTH TO
42 43
J4-2 48"X36"
1144

1140
W3-3 36"X36"

MOUNT TO SIGNAL
STOP
R1-1F 36"X36"
1135
1136
1137
R3-4 24"X24"
R3-2 24"X24"

R3-2 24"X24"
1138

R8-3 24"X24"
1139

ONE WAY
R6-2R 24"X30"
1145

JCT JCT
10 COUNTY B
J1-2 48"X39"
1146

JCT
10
COUNTY B
JV 24"X63"
1147

R8-3 24"X24"
1148

SPEED LIMIT 25
R2-1 24"X30"
1149

STOP
R1-1 36"X36"
1150

SOUTH
42
J4-1 24"X36"
R8-3 24"X24"
1151
1152

STOP
R1-1 36"X36"
1153

SPEED LIMIT 25
R2-1 24"X30"
1154

MOUNT TO SIGNAL
R3-1 24"X24"
1100
1101
STOP
R1-1F 36"X36"

MOUNT TO SIGNAL
1102
DO NOT ENTER
R5-1 30"X30"

NO PARKING HERE TO CORNER

EXISTING SIGNS TO REMAIN

EXISTING SIGN STRUCTURE AND ATTACHED SIGNS TO REMAIN

MOUNT TO SIGNAL
R3-1 24"X24"
1111
1110
1109
DO NOT ENTER
R5-1 30"X30"
STOP
R1-1F 36"X36"

1112A
1112B
1113
NORTH 42
J4-1 24"X36"
M1-93 24"X24"
R8-3 24"X24"

NORTH 42
J2-1 24"X57"
1104

1114
ONE WAY
R6-2R 24"X30"

1115
STOP
R1-1 36"X36"

1116
STOP
R1-1 36"X36"

1117
DO NOT ENTER
R5-1 30"X30"

1118
STOP
R1-1 36"X36"

1119
1120

W11-3 30"X30"
R8-3 24"X24"

1121
SPEED LIMIT 25
R2-1 24"X30"

1122
SPEED LIMIT 25
R2-1 24"X30"

1123
1124
NORTH 42
J4-2 48"X36"
R8-3 24"X24"

1126
R8-3 24"X24"

SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

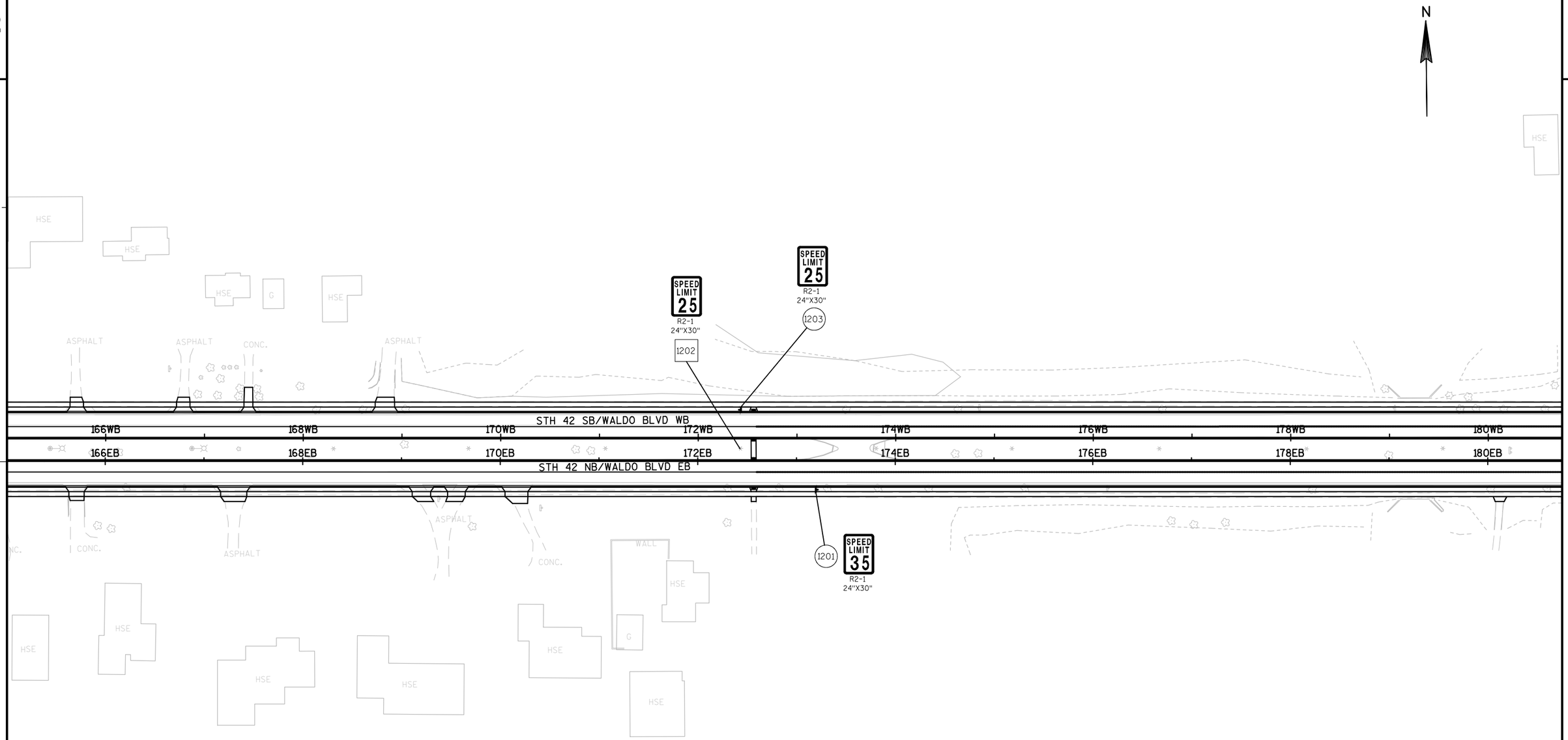
MOUNTING OF ANY SIGNS ON TRAFFIC SIGNALS SHALL BE 5'-3" +/-.

NEW STOP SIGNS PLACED SHALL HAVE A MINIMUM OF 6'-6" CLEARANCE ABOVE THE ROADWAY. THIS WILL ALLOW FOR THE PLACEMENT OF FUTURE SIGNS BENEATH THE STOP SIGN.

ALL OF THE WAYFINDING AND STREET NAME SIGNAGE WILL BE REMOVED AND REPLACED BY THE CITY OF MANITOWOC.

PROJECT NO: 1500-37-71 & 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET 230	E

2



SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

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PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET 231	E

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

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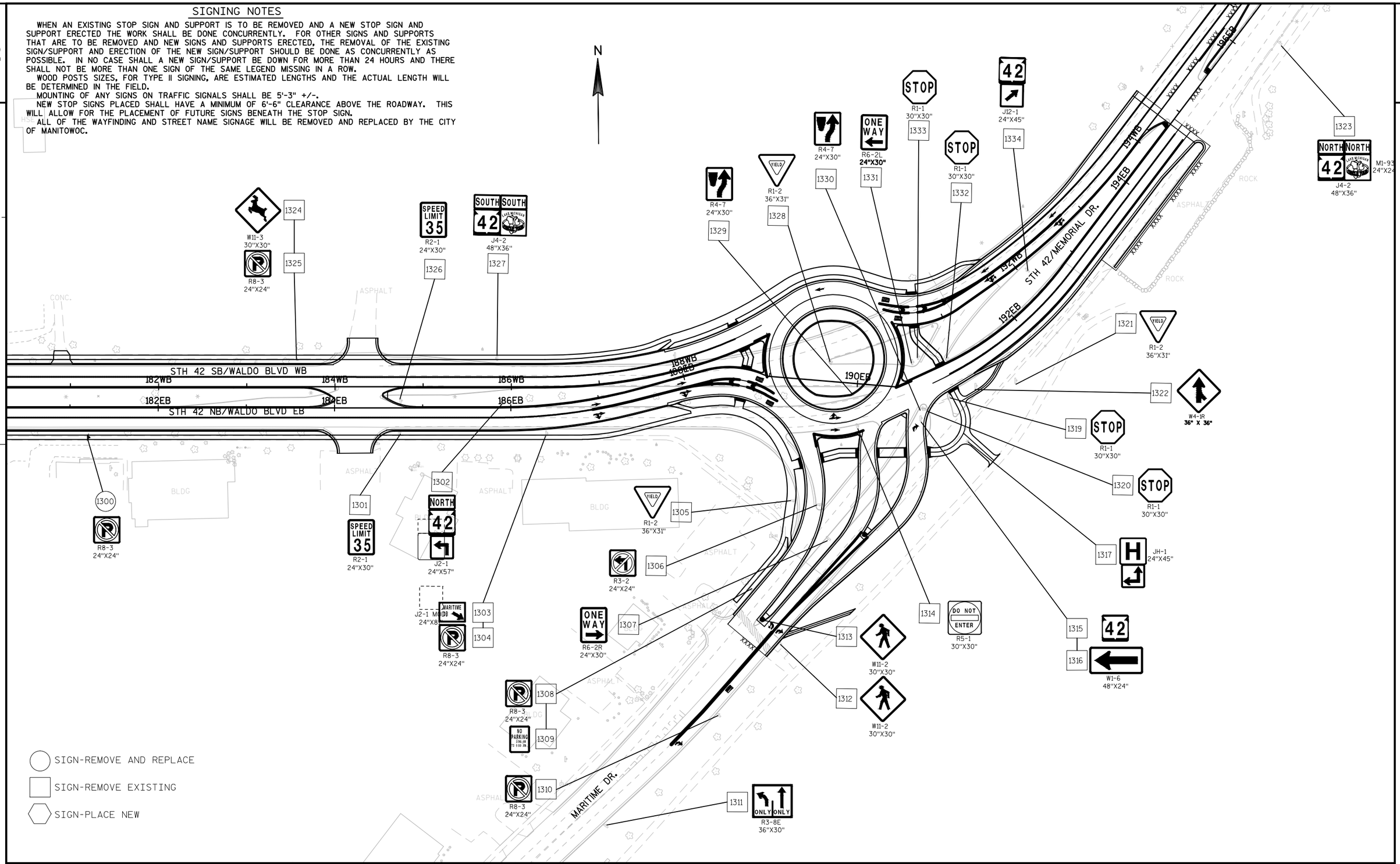

SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET 232	E

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

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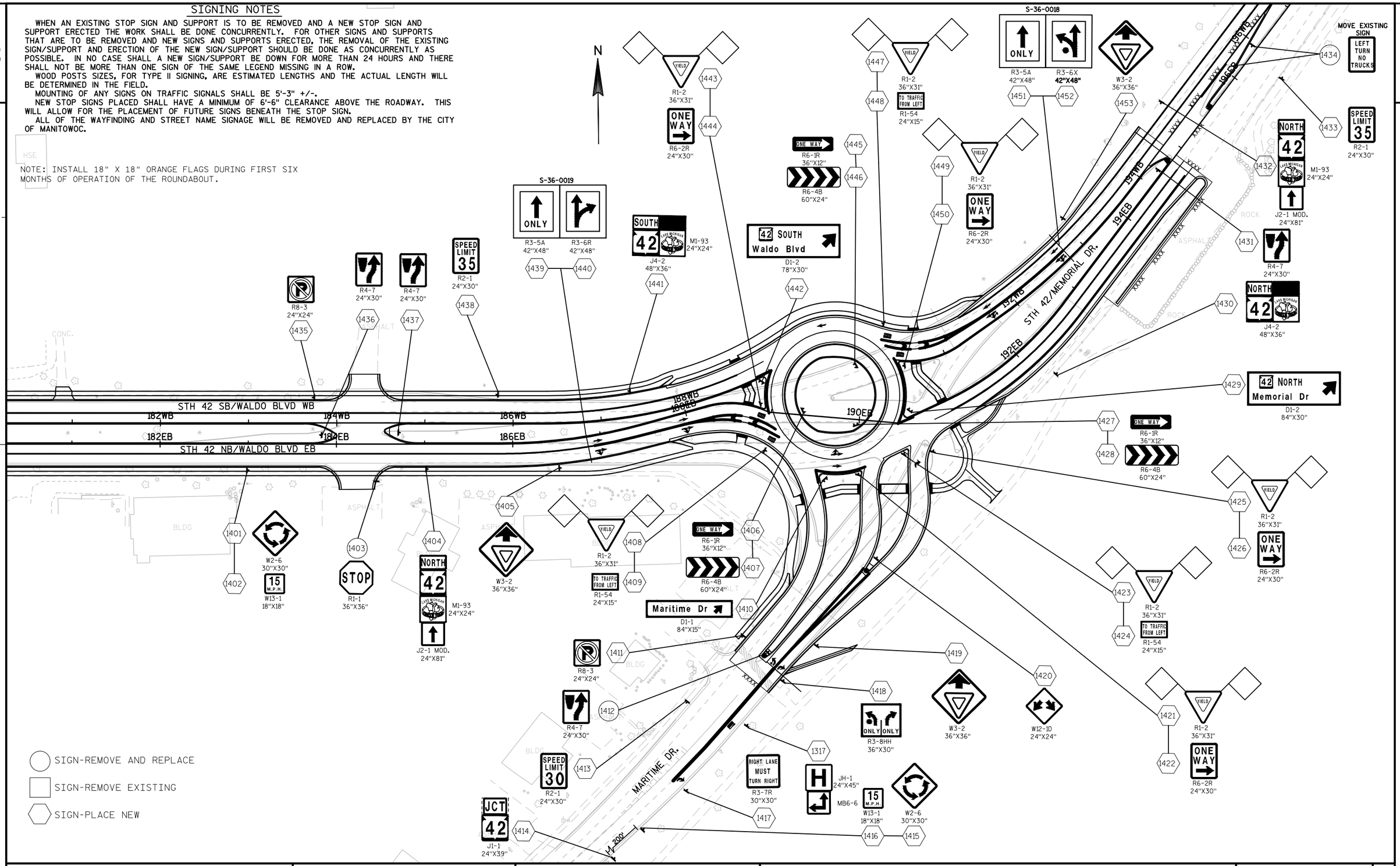
ALL OF THE WAYFINDING AND STREET NAME SIGNAGE WILL BE REMOVED AND REPLACED BY THE CITY OF MANITOWOC.

HSE

NOTE: INSTALL 18" X 18" ORANGE FLAGS DURING FIRST SIX MONTHS OF OPERATION OF THE ROUNDABOUT.



SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET 233	E

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

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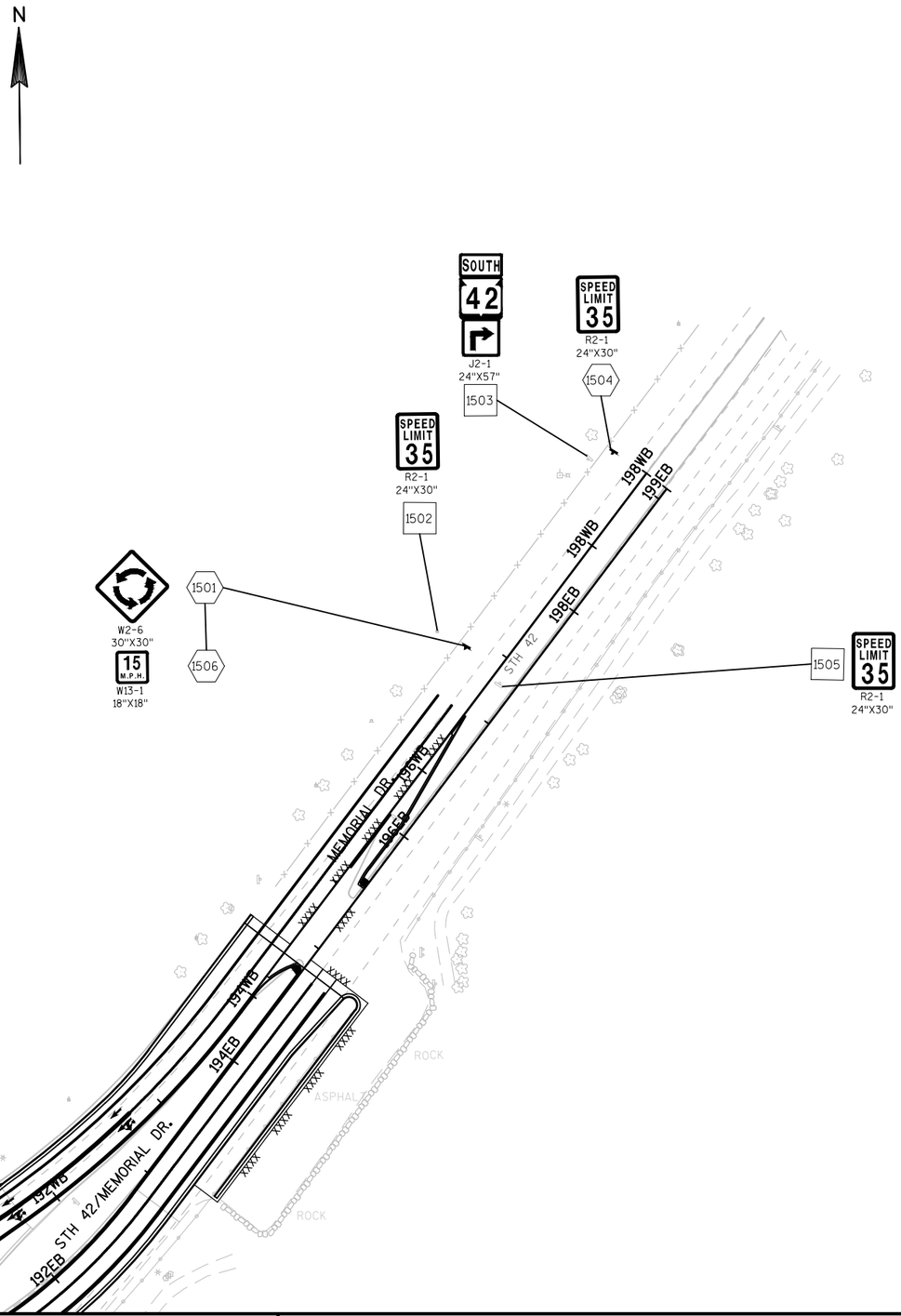
ALL OF THE WAYFINDING, AND STREET NAME SIGNAGE WILL BE REMOVED AND REPLACED BY THE CITY OF MANITOWOC.

SIGN-REMOVE AND REPLACE

SIGN-REMOVE EXISTING

SIGN-PLACE NEW



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET 234 E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\SIGNING\023201_PS.DWG PLOT DATE : 7/12/2018 2:52 PM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1in:100ft_XREF

WISDOT/CADDS SHEET 42

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE, TYPE 1 BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- PULL BOX, 18" X 24"

- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- Y YELLOW ARROW
- G GREEN ARROW
- Y YIELD SIGN

LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N

POSTED SPEED LIMIT = 35 MPH

CTH R (N RAPIDS RD)

USH 10 (WALDO BLVD)

R/W

EX.CAB.

PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8 PB9 PB10 PB11 PB12 PB13 PB14 PB15 PB16

SB1 SB2 SB3 SB4 SB5 SB6 SB7 SB8 SB9 SB10 SB11

ABANDON

20' 25'

37+00 38+00 39+00 40+00 41+00 42+00

9+00 10+00 11+00 12+00

LOOP DETECTORS TO REMAIN IN PLACE
FOR FUTURE OPERATION

CONSTRUCTION NOTES

1. ABANDONED LOOPS TO BE REMOVED ONCE PAVEMENT IS REPLACED TO INSTALL NEW LOOPS. LOOP DETECTOR WIRE AND LOOP DETECTOR LEAD-IN CABLE TO BE REMOVE BY CONTRACTOR.
2. EXISTING CONDUIT MAY BE ABANDONED IN PLACE ONLY IF IT DOES NOT INTERFERE WITH NEW CONSTRUCTION OR PRESENT A RISK OF DAMAGE TO NEWLY CONSTRUCTED ITEMS.
3. CONTACT NE REGION ELECTRICAL UNIT AT 920-492-5710 PRIOR TO REMOVING ANY OF THE SIGNAL STANDARDS OR PULL BOXES.

TRAFFIC CONTROL SIGNAL
USH 10 (WALDO BLVD) & CTH R
CITY OF MANITOWOC
MANITOWOC COUNTY

CABINET TYPE: TS-2
SIGNAL NO. ---- CONTROLLER TYPE: EPAC M52

REGION CONTACT: M. DEZEEUW
DESIGNED BY: AYRES ASSOCIATES INC
REVISED BY:----

PAGE 1 OF 1

PROJECT NO: 1500-37-71	HWY: USH 10/STH 42	COUNTY: MANITOWOC	TRAFFIC SIGNAL REMOVAL PLAN-CTH R	SHEET 235	E

FILE NAME : V:\TRAFFIC\WK\41062900\SIGNAL PLAN SHEETS\024001 RP.DWG PLOT DATE : 8/14/2017 2:07 PM PLOT BY : HICKMAN, TRISTAN PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE, TYPE 1 BASE
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM, TYPE 13 BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LUMINAIRE (LED)
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"

- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R ARROW RED ARROW
- FY Y ARROW YELLOW ARROW
- G ARROW GREEN ARROW
- DON'T WALK INDICATOR 16"
  WALK INDICATOR 16"
- Y YIELD SIGN

LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N

USH 10 (WALDO BLVD)

CTH R (N RAPIDS RD)

POSTED SPEED LIMIT = 35 MPH

POSTED SPEED LIMIT = 45 MPH

LOOP 42 & 43 6'X30' 3 TURNS

LOOP 41 6'X30' 4 TURNS

OL'D'

PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8 PB9 PB10 PB11 PB12 PB13 PB14 PB15 PB16 PB17 PB18

SB1 SB2 SB3 SB4 SB5 SB6 SB7 SB8

CB1

2-3" SPECIAL

3-3" SPECIAL

3" SPECIAL

55'

45'

50'

LOOP 11 & 12 6'X24' 4 TURNS

OL'A'

LOOP 61 6'X24' 4 TURNS

LOOP 62 6'X24' 4 TURNS

LOOP 22 6'X20' 3 TURNS

150' TO STOP BAR

LOOP 21 6'X20' 4 TURNS

250' TO STOP BAR

LOOP 52 & 53 6'X20' 4 TURNS

LOOP 51 6'X6' 3 TURNS

OL'C'

LOOP 81 6'X30' 4 TURNS

LOOP 82 & 83 6'X30' 3 TURNS

OL'B'

37+00 38+00 39+00 40+00 41+00 42+00

R/W

PORCH GAZEBO HSE SHED ASPH POST

CONSTRUCTION NOTES

1. * IS THE FRONT CENTER OF THE LOOP DETECTORS
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 DAYS PRIOR TO PLACING SIGNAL CABLE INTO THE SYSTEM. CONTACT THE CITY OF MANITOWOC AT 920-686-6517 (MARK DEZEEUW).
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITIES ARE APPROXIMATE. THERE MAY BE OTHER WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
4. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICTS WITH EXISTING UTILITY FACILITIES.
5. ALL SIGNAL EQUIPMENT SHALL BE INSTALLED WITH A MINIMUM OF 2-FT CLEARANCE TO THE FACE OF THE CURB UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
6. CONDUIT INSTALLED IN EXISTING PAVEMENT WILL BE CONDUIT 3-INCH SPECIAL.
7. CONCRETE SECTIONS CUT TO PLACE NEW LOOP DETECTORS AT ALL LOCATIONS. REFER TO SDD 9F15 SHEET B 'LOOP DETECTOR INSTALLED IN BASE COURSE (OPTION 2)' FOR INSTALLATION METHOD.
8. CONDUIT EMBEDDED IN A TYPE 9, 10, 12, OR 13 BASE SHALL BE 3" CONDUIT.

MONOTUBE STRUCTURE NO.	
BASE NO.	STRUCTURE NO.
SB2	S-36-0049
SB4	S-36-0048
SB6	S-36-0047
SB8	S-36-0046

CONFIGURATION WITH HEAD NUMBERS

3-V	3-VL	4-VL
XX R Y G	XX R FY Y	XX R FY Y G
1,2,3,6 7,8,11,12 13,16,17,18	14,15,19,20	4,5,9,10

TRAFFIC CONTROL SIGNAL
USH 10 (WALDO BLVD) & CTH R
CITY OF MANITOWOC
MANITOWOC COUNTY

CABINET TYPE: TS-2
SIGNAL NO. ---- CONTROLLER TYPE: EPAC M52

REGION CONTACT: M. DEZEEUW
DESIGNED BY: AYRES ASSOCIATES INC
REVISED BY:----

PAGE 1 OF 2

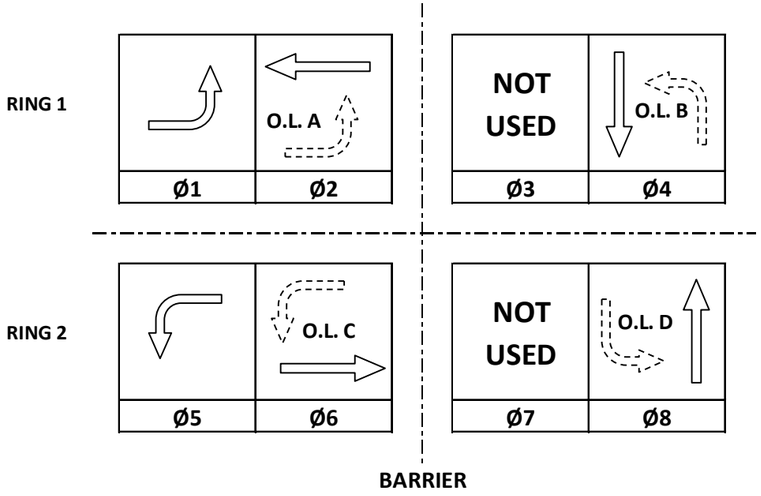
PROJECT NO: 1500-47-71	HWY: USH 10/STH 42	COUNTY: MANITOWOC	TRAFFIC SIGNAL PLAN-CTH R	SHEET	E

FILE NAME : V:\TRAFFIC\WK\41062900\SIGNAL PLAN SHEETS\024201 SP.DWG PLOT DATE : 7/25/2018 2:16 PM PLOT BY : HICKMAN, TRISTAN PLOT NAME : PLOT SCALE : 1in:40 ft_XREF

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	4,5	R ←
Ø2	6,7,8	R
Ø3		
Ø4	16,17,18,19,20	A
Ø5	9,10	R ←
Ø6	1,2,3	R
Ø7		
Ø8	11,12,13,14,15	A
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLA	4,5	R ←
OLB	14,15	R ←
OLC	9,10	R ←
OLD	19,20	R ←

A = R, R



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3				
4		8		X
5		8		X
6	X	2	MIN	X
7				
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	--	--	--	--
PHASE				

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
3M	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	21	43	41	52	51		61
ASSIGNED PHASE	1	2	4	4	5	5		6
OPERATION MODE	VEH	VEH	VEH	VEH	VEH	VEH		VEH
SWITCH								
EXTEND	X	X	X	X	X	X		X
DELAY								

19	17	23	21	27	25	31	29	DETECTOR INPUT
82	81							PLAN LOOP DETECTOR*(S)
8	8							ASSIGNED PHASE
VEH	VEH							OPERATION MODE
								SWITCH
X	X							EXTEND
								DELAY

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	22	42		53			62
ASSIGNED PHASE	1	2	3		5			6
OPERATION MODE	VEH	VEH	VEH		VEH			VEH
SWITCH								
EXTEND	X	X	X					
DELAY								

20	18	24	22	28	26	32	30	DETECTOR INPUT
	83							PLAN LOOP DETECTOR*(S)
	8							ASSIGNED PHASE
	VEH							OPERATION MODE
								SWITCH
	X							EXTEND
								DELAY

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.

USH 10/STH 42 & CTH R (RAPIDS AVE)
CITY OF MANITOWOC
MANITOWOC COUNTY

SIGNAL NO: N/A CABINET TYPE: TS2
CONTROLLER TYPE: EPAC M52
DATE: 0 PAGE NO. 2 OF 2

PROJECT ID:	1500-47-71
INTERSECTION:	USH 10 & CTH R

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	JUMPER	SIGNAL INDICATION WIRE COLOR									
				RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK	PED BUTTON
SB1	15	14					RED/BLK	ORG/BLK		BLK/WHT			
		16		RED	ORG	GRN							
SB2	19	12		RED	ORG	GRN				BLU/WHT			
		13		RED/BLK	ORG/BLK	GRN/BLK							
		15					RED/WHT	BLU/WHT		BLK/WHT			
SB3	15	4		RED	ORG	GRN				WHT/BLK			
		6		RED/BLK	ORG/BLK	GRN/BLK							
SB4	19	2		RED	ORG	GRN							
		3		RED/BLK	ORG/BLK	GRN/BLK							
		5					RED/WHT	BLU/WHT	GRN/WHT	BLK/WHT			
SB5	15	11		RED	ORG	GRN							
		19					RED/BLK	ORG/BLK		BLK/WHT			
SB6	19	17		RED	ORG	GRN							
		18		RED/BLK	ORG/BLK	GRN/BLK							
		20					RED/WHT	BLU/WHT		BLK/WHT			
SB7	15	1		RED	ORG	GRN							
		9					RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT			
SB8	19	7		RED	ORG	GRN							
		8		RED/BLK	ORG/BLK	GRN/BLK							
		10					RED/WHT	BLU/WHT	GRN/WHT	BLK/WHT			

Equipment grounding conductor 10 AWG Green XLP	
FROM	TO
CAB.	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	CAB.

Pull Box Bonding Jumper 10 AWG Green XLP	
FROM	To
PB1	SB1
PB2	SB1
PB3	SB2
PB4	SB2
PB6	SB3
PB7	SB3
PB8	SB4
PB9	SB5
PB10	SB6
PB12	SB6
PB13	SB7
PB14	SB8

NOTE:
- Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications
- Ensure the grounded conductor in the feeder cable and the pole cables are both 18” longer than the ungrounded conductors.
- At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.
- Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.

TRAFFIC CONTROL SIGNAL
USH 10 (WALDO BLVD.) & CTH R
CITY OF MANITOWOC
MANITOWOC COUNTY

PAGE 1 OF 1

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"

- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- Y YELLOW ARROW
- G GREEN ARROW
- DON'T WALK INDICATOR 16"
  WALK INDICATOR 16"
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N

USH 10 (WALDO BLVD.)

18TH ST.

POSTED SPEED LIMIT = 35 MPH

ABANDON

PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8 PB9 PB10 PB11 PB12 PB13 PB14

SB1 SB2 SB3 SB4 SB5 SB6 SB7 SB8

CB1

LOOP 81 & 82
6X20'
3 TURNS

CONSTRUCTION NOTES

1. * IS THE FRONT CENTER OF THE LOOP DETECTORS
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 DAYS PRIOR TO PLACING SIGNAL CABLE INTO THE SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD STAFF TO MAKE ARRANGEMENTS AT ---*---*----.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITIES ARE APPROXIMATE. THERE MAY BE OTHER WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
4. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICTS WITH EXISTING UTILITY FACILITIES.
5. ALL SIGNAL EQUIPMENT SHALL BE INSTALLED WITH A MINIMUM OF 2-FT CLEARANCE TO THE FACE OF THE CURB UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
6. INCLUDE TUNNEL VISORS ON SIGNAL FACES 4, 9, 14 AND 19.
7. CONDUIT EMBEDDED IN A TYPE 9, 10, 12, OR 13 BASE SHALL BE 3" CONDUIT.

TRAFFIC CONTROL SIGNAL
USH 10 (WALDO BLVD) & 18TH ST.
CITY OF MANITOWOC
MANITOWOC COUNTY

CABINET TYPE: TS-2
SIGNAL NO. ---- CONTROLLER TYPE: EPAC M52

MANITOWOC DEPARTMENT OF PUBLIC WORKS

APPROVED

DATE_____ _____
CITY ENGINEER

REGION CONTACT: M. DEZEEUW
DESIGNED BY: AYRES ASSOCIATES INC
REVISED BY:----

PAGE 1 OF 1

PROJECT NO: 1500-37-71	HWY: USH 10/STH 42	COUNTY: MANITOWOC	TRAFFIC SIGNAL REMOVAL PLAN-18TH ST.	SHEET E

FILE NAME : V:\TRAFFIC\WK\41062900\SIGNAL PLAN SHEETS\024002 RP.DWG PLOT DATE : 8/14/2017 2:07 PM PLOT BY : HICKMAN, TRISTAN PLOT NAME : PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 42

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- MONOTUBE BASE, POLE, 15'-30' ARM, TYPE 10 BASE
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM, TYPE 13 BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LUMINAIRE (LED)
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- RA RED ARROW
- FY YELLOW ARROW
- GA GREEN ARROW
- DON'T WALK INDICATOR 16"
  WALK INDICATOR 16"
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N

18TH ST.

POSTED SPEED LIMIT = 35 MPH

LOOP 41 & 42
6'X20'
3 TURNS

LOOP 71 & 72
6'X20'
4 TURNS

OL'D'

USH 10 (WALDO BLVD.)

R/W

CB1

PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8 PB9 PB10 PB11 PB12 PB13 PB14 PB15 PB16 PB17

SB1 SB2 SB3 SB4 SB5 SB6 SB7 SB8 SB9 SB10 SB11

3-3" 2-3" 3"

30' 35' 45'

116+00 117+00 118+00 119+00 120+00 121+00

9+00 10+00 11+00 12+00

OL'A'

LOOP 11 & 12
6'X20'
4 TURNS

LOOP 61
6'X20'
4 TURNS

LOOP 62
6'X20'
4 TURNS

250' TO STOP BAR

125' TO STOP BAR

LOOP 22
6'X20'
4 TURNS

LOOP 21
6'X20'
4 TURNS

OL'C'

LOOP 51 & 52
6'X20'
4 TURNS

OL'B'

LOOP 31 & 32
6'X20'
4 TURNS

LOOP 81 & 82
6'X20'
3 TURNS

MONOTUBE STRUCTURE NO.	
BASE NO.	STRUCTURE NO.
SB3	S-36-0053
SB5	S-36-0052
SB8	S-36-0051
SB11	S-36-0050

CONFIGURATION WITH HEAD NUMBERS

3-V	4-VL	PED
1,2,3,6 7,8,11,12 13,16,17,18	4,5,9,10 14,15,19,20	21,22,23 24,25,26 27,28

CONSTRUCTION NOTES

1. * IS THE FRONT CENTER OF THE LOOP DETECTORS
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 DAYS PRIOR TO PLACING SIGNAL CABLE INTO THE SYSTEM. CONTACT THE CITY OF MANITOWOC AT 920-686-6517 (MARK DEZEEUW).
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITIES ARE APPROXIMATE. THERE MAY BE OTHER WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
4. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICTS WITH EXISTING UTILITY FACILITIES.
5. ALL SIGNAL EQUIPMENT SHALL BE INSTALLED WITH A MINIMUM OF 2-FT CLEARANCE TO THE FACE OF THE CURB UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
6. CONDUIT EMBEDDED IN A TYPE 9, 10, 12, OR 13 BASE SHALL BE 3" CONDUIT.

TRAFFIC CONTROL SIGNAL
USH 10 (WALDO BLVD) & 18TH ST.
CITY OF MANITOWOC
MANITOWOC COUNTY

CABINET TYPE: TS-2
SIGNAL NO. ---- CONTROLLER TYPE: EPAC M52

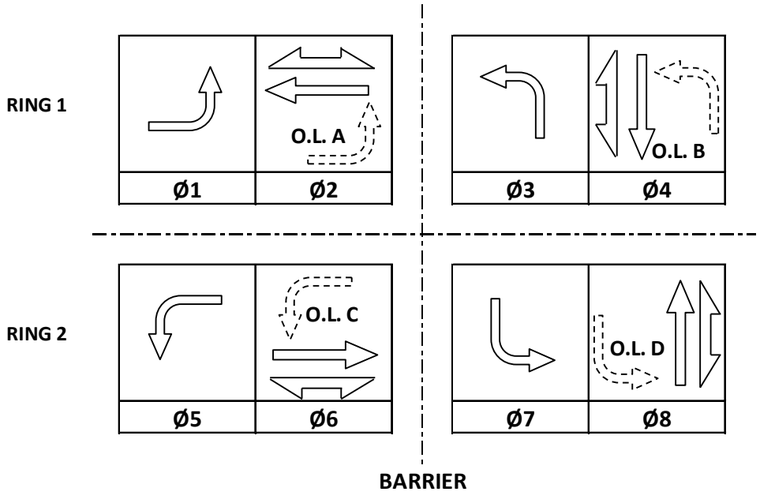
REGION CONTACT: M. DEZEEUW
DESIGNED BY: AYRES ASSOCIATES INC
REVISED BY: ----

PAGE 1 OF 2

PROJECT NO: 1500-37-71	HWY: USH 10/STH 42	COUNTY: MANITOWOC	TRAFFIC SIGNAL PLAN-18TH ST.	SHEET E

FILE NAME : V:\TRAFFIC\WK\41062900\SIGNAL PLAN SHEETS\024202 SP.DWG
PLOT DATE : 7/25/2018 2:18 PM PLOT BY : HICKMAN, TRISTAN PLOT NAME : PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	4,5	-
Ø2	6,7,8	R
Ø3	14,15	-
Ø4	16,17,18	R
Ø5	9,10	-
Ø6	1,2,3	R
Ø7	19,20	-
Ø8	11,12,13	R
Ø2P	20,21	
Ø4P	22,23	
Ø6P	24,25	
Ø8P	26,27	
OLA	4,5	R ←
OLB	14,15	R ←
OLC	9,10	R ←
OLD	19,20	R ←



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		5		X
2	X	6	MIN	X
3		7		X
4		8		X
5		1		X
6	X	2	MIN	X
7		3		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	--	--	--	--
PHASE				

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
3M	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	11	21	31	41	51	61	71	81									PLAN LOOP DETECTOR*(S)
ASSIGNED PHASE	1	2	3	4	5	6	7	8									ASSIGNED PHASE
OPERATION MODE	VEH	VEH	VEH	VEH	VEH	VEH	VEH	VEH									OPERATION MODE
SWITCH																	SWITCH
EXTEND	X	X	X	X	X	X	X	X									EXTEND
DELAY																	DELAY

DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	12		32	42	52		72	82									PLAN LOOP DETECTOR*(S)
ASSIGNED PHASE	1		3	4	5		7	8									ASSIGNED PHASE
OPERATION MODE	VEH		VEH	VEH	VEH		VEH	VEH									OPERATION MODE
SWITCH																	SWITCH
EXTEND																	EXTEND
DELAY																	DELAY

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.

USH 10/STH 42 & 18TH ST
CITY OF MANITOWOC
MANITOWOC COUNTY

SIGNAL NO: N/A CABINET TYPE: TS2
CONTROLLER TYPE: EPAC M52
DATE: 0 PAGE NO. 2 OF 2

PROJECT ID:	1500-37-71
INTERSECTION:	USH 10 & 18TH ST.

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	JUMPER	SIGNAL INDICATION WIRE COLOR									PED BUTTON
				RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK	
SB1	9	21									BLK	BLU	
		BUTTON											WHT/BLK
SB2	15	14					RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT			
		16		RED	ORG	GRN							
		22									BLK	BLU	
		BUTTON											WHT/BLK
SB3	19	12		RED	ORG	GRN							
		13		RED/BLK	ORG/BLK	GRN/BLK							
		15					RED/WHT	BLU/WHT	GRN/WHT	BLK/WHT			
		27									BLK	BLU	
		BUTTON											WHT/BLK
SB4	15	4					RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT			
		6		RED	ORG	GRN							
		20									BLK	BLU	
		BUTTON											WHT/BLK
SB5	15	2		RED	ORG	GRN							
		3		RED/BLK	ORG/BLK	GRN/BLK							
		5					RED/WHT	BLU/WHT	GRN/WHT	BLK/WHT			
SB6	9	25									BLK	BLU	
		BUTTON											WHT/BLK
SB7	15	11		RED	ORG	GRN							
		19					RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT			
		26									BLK	BLU	
		BUTTON											WHT/BLK
SB8	15	17		RED	ORG	GRN							
		18		RED/BLK	ORG/BLK	GRN/BLK							
		20					RED/WHT	BLU/WHT	GRN/WHT	BLK/WHT			
SB9	9	23									BLK	BLU	
		BUTTON											WHT/BLK
SB10	15	1		RED	ORG	GRN							
		9		RED/BLK	ORG/BLK	GRN/BLK							
		24									BLK	BLU	
		BUTTON											WHT/BLK
SB11	15	7		RED	ORG	GRN							
		8		RED/BLK	ORG/BLK	GRN/BLK							
		10					RED/WHT	BLU/WHT	GRN/WHT	BLK/WHT			

NOTE:
- **Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications**
- **Ensure the grounded conductor in the feeder cable and the pole cables are both 18” longer than the ungrounded conductors.**
- **At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.**
- **Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.**

TRAFFIC CONTROL SIGNAL
USH 10 (WALDO BLVD.) & 18TH ST.
CITY OF MANITOWOC
MANITOWOC COUNTY

Equipment grounding conductor 10 AWG Green XLP	
FROM	TO
CAB.	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	CAB.

Pull Box Bonding Jumper 10 AWG Green XLP	
FROM	To
PB1	SB1
PB2	SB2
PB4	SB3
PB5	SB4
PB7	SB5
PB8	SB6
PB9	SB7
PB10	SB8
PB11	SB10
PB13	SB11
PB14	SB11

TRAFFIC CONTROL SIGNAL
USH 10 (WALDO BLVD.) & 18TH ST.
CITY OF MANITOWOC
MANITOWOC COUNTY

PAGE 2 OF 2

PROJECT NO: 1500-37-71	HWY: USH 10/STH 42	COUNTY: MANITOWOC	CABLE ROUTING SHEET	SHEET NO: 243	E

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE, TYPE 1 BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE, TYPE 2 BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- Y YELLOW ARROW
- G GREEN ARROW
- DON'T WALK INDICATOR 16"
  WALK INDICATOR 16"
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N

11TH ST.

USH 10 (WALDO BLVD.)

139+00 140+00 141+00 142+00 143+00 144+00

11+00 10+00 9+00

EX. CAB. EPB1 SB1 SB2 SB3 SB4 SB5 SB6 SB8 SB9 SB10 SB11 EPB2 EPB3 EPB4 EPB5 EPB6 EPB7 EPB8

ABANDON

CONSTRUCTION NOTES
1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA NOT SHOWN.
2. EXISTING CONDUIT RUNS NO LONGER USED FOR THE PROPOSED TRAFFIC SIGNAL INSTALLATION TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY EXISTING TRAFFIC SIGNAL CABLE AND TRAFFIC SIGNAL WIRE NO LONGER USED FOR THE PROPOSED TRAFFIC SIGNAL INSTALLATION.
3. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRES AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.

TRAFFIC CONTROL SIGNAL
USH 10 (WALDO BLVD) & 11TH ST.
CITY OF MANITOWOC
MANITOWOC COUNTY

SIGNAL NO. ----

REGION CONTACT: B. SCHUURMANS
DESIGNED BY: AYRES ASSOCIATES INC
REVISED BY:----

PAGE 1 OF 1

PROJECT NO: 1500-37-71	HWY: USH 10/STH 42	COUNTY: MANITOWOC	TRAFFIC SIGNAL REMOVAL PLAN-11TH ST.	SHEET 244	E

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE, TYPE 1 BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE, TYPE 2 BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM, TYPE 10 BASE
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM, TYPE 13 BASE
- B PEDESTRIAN HEAD WITH PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- FY YELLOW ARROW
- G GREEN ARROW
- DON'T WALK INDICATOR 16"
  WALK INDICATOR 16"
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N

USH 10 (WALDO BLVD.)

11TH ST.

SPEED LIMIT = 25 MPH

R/W

PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8 PB9 PB10 PB11 PB12 PB13 PB14

SB1 SB2 SB3 SB4 SB5 SB6 SB7 SB8 SB9 SB10

CB1

139+00 140+00 141+00 142+00 143+00 144+00

LOOP 11 & 12 6'X20' 4 TURNS

LOOP 21 6'X20' 4 TURNS

LOOP 22 6'X20' 4 TURNS

LOOP 41 6'X20' 3 TURNS

LOOP 42 & 43 6'X20' 4 TURNS

LOOP 51 & 52 6'X20' 4 TURNS

LOOP 61 6'X20' 4 TURNS

LOOP 62 6'X20' 4 TURNS

250' TO STOP BAR

125' TO STOP BAR

MONOTUBE STRUCTURE NO.	
BASE NO.	STRUCTURE NO.
SB2	S-36-0055
SB7	S-36-0054

CONFIGURATION WITH HEAD NUMBERS

3-V	4-VL	PED
XX R Y G	XX R Y FY G	XX
1,2,3,6 7,8,11,12 13	4,5,9,10	14,15,16 17,18,19, 20,21

CONSTRUCTION NOTES

1. * IS THE FRONT CENTER OF THE LOOP DETECTORS
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 DAYS PRIOR TO PLACING SIGNAL CABLE INTO THE SYSTEM. CONTACT THE CITY OF MANITOWOC AT 920-686-6517 (MARK DEZEEUW).
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITIES ARE APPROXIMATE. THERE MAY BE OTHER WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
4. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICTS WITH EXISTING UTILITY FACILITIES.
5. ALL SIGNAL EQUIPMENT SHALL BE INSTALLED WITH A MINIMUM OF 2-FT CLEARANCE TO THE FACE OF THE CURB UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
6. CONDUIT EMBEDDED IN A TYPE 9, 10, 12, OR 13 BASE SHALL BE 3" CONDUIT.

TRAFFIC CONTROL SIGNAL
USH 10 (WALDO BLVD) & 11TH ST.
CITY OF MANITOWOC
MANITOWOC COUNTY

CABINET TYPE: TS-2
SIGNAL NO. ---- CONTROLLER TYPE: EPAC M52

REGION CONTACT: M. DEZEEUW
DESIGNED BY: AYRES ASSOCIATES INC
REVISED BY: ----

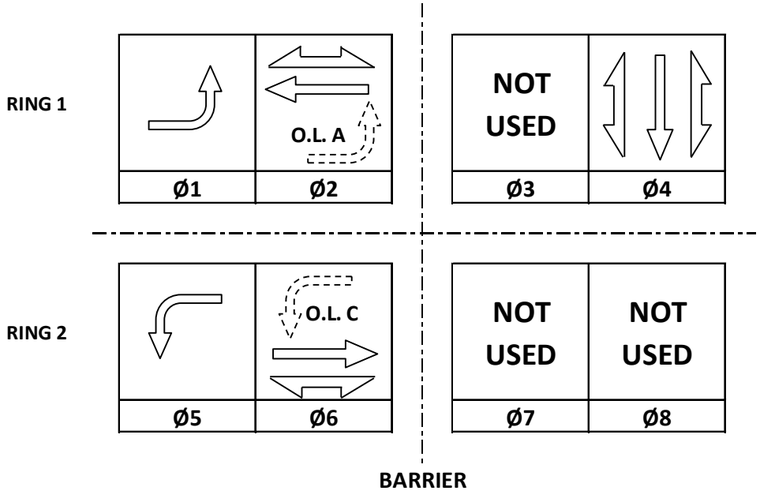
PAGE 1 OF 2

PROJECT NO: 1500-37-71	HWY: USH 10/STH 42	COUNTY: MANITOWOC	TRAFFIC SIGNAL PLAN-11TH ST.	SHEET E

FILE NAME : V:\TRAFFIC\WK\41062900\SIGNAL PLAN SHEETS\024203 SP.DWG PLOT DATE : 7/25/2018 2:20 PM PLOT BY : HICKMAN, TRISTAN PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	4,5	-
Ø2	6,7,8	R
Ø3		
Ø4	11,12,13	R
Ø5	9,10	-
Ø6	1,2,3	R
Ø7		
Ø8		
Ø2P	14,15	
Ø4P	16,17,20,21	
Ø6P	18,19	
Ø8P		
OLA	4,5	R ←
OLB		
OLC	9,10	R ←
OLD		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3				
4				X
5		2		X
6	X	2	MIN	X
7				
8				

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	--	--	--	--
PHASE				

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
3M	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	21	41	43	51	61		
ASSIGNED PHASE	1	2	4	4	5	6		
OPERATION MODE	VEH	VEH	VEH	VEH	VEH	VEH		
SWITCH								
EXTEND	X	X	X	X	X	X		
DELAY								

DETECTOR INPUT	19	17	23	21	27	25	31	29
PLAN LOOP DETECTOR*(S)								
ASSIGNED PHASE								
OPERATION MODE								
SWITCH								
EXTEND								
DELAY								

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12		42		52			
ASSIGNED PHASE	1		4		5			
OPERATION MODE	VEH		VEH		VEH			
SWITCH								
EXTEND	X		X		X			
DELAY								

DETECTOR INPUT	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)								
ASSIGNED PHASE								
OPERATION MODE								
SWITCH								
EXTEND								
DELAY								

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.

USH 10/STH 42 & 11TH ST
CITY OF MANITOWOC
MANITOWOC COUNTY

SIGNAL NO: N/A CABINET TYPE: TS2
CONTROLLER TYPE: EPAC M52
DATE: 0 PAGE NO. 2 OF 2

PROJECT ID:	1500-37-71
INTERSECTION:	USH 10 & 11TH ST.

Signal Wire Color Coding	BLK - black	RED - red
	WHT - white	BLU - blue

GRN - green	
ORG - orange	

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	JUMPER	SIGNAL INDICATION WIRE COLOR									
				RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK	PED BUTTON
SB1	15	4					RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT			
		6		RED	ORG	GRN							
		14									BLK	BLU	
		BUTTON											WHT/BLK
SB2	15	2		RED	ORG	GRN							
		3		RED/BLK	ORG/BLK	GRN/BLK							
		5					RED/WHT	BLU/WHT	GRN/WHT	BLK/WHT			
		19									BLK	BLU	
		BUTTON											WHT/BLK
SB3	9	12		RED	ORG	GRN							
		20									BLK	BLU	
		BUTTON											WHT/BLK
SB4	9	13		RED	ORG	GRN							
SB5	7	17									BLK	BLU	
		BUTTON											WHT/BLK
SB6	15	1		RED	ORG	GRN							
		9					RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT			
		18									BLK	BLU	
		BUTTON											WHT/BLK
SB7	15	7		RED	ORG	GRN							
		8		RED/BLK	ORG/BLK	GRN/BLK							
		10					RED/WHT	BLU/WHT	GRN/WHT	BLK/WHT			
SB8	7	15									BLK	BLU	
		BUTTON											WHT/BLK
SB9	15	11		RED	ORG	GRN							
		16									BLK	BLU	
		BUTTON											WHT/BLK
SB10	7	21									BLK	BLU	
		BUTTON											WHT/BLK

NOTE:

- **Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications**
- **Ensure the grounded conductor in the feeder cable and the pole cables are both 18” longer than the ungrounded conductors.**
- **At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.**
- **Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.**

TRAFFIC CONTROL SIGNAL
USH 10 (WALDO BLVD.) & 11TH ST.
CITY OF MANITOWOC
MANITOWOC COUNTY

Equipment grounding conductor 10 AWG Green XLP	
FROM	TO
CAB.	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	CAB.

Pull Box Bonding Jumper 10 AWG Green XLP	
FROM	To
PB1	SB1
PB2	SB2
PB4	SB3
PB5	SB4
PB7	SB5
PB8	SB6
PB9	SB7
PB10	SB8
PB11	SB10
PB13	SB11
PB14	SB11

TRAFFIC CONTROL SIGNAL
USH 10 (WALDO BLVD.) & 11TH ST.
CITY OF MANITOWOC
MANITOWOC COUNTY

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE, TYPE 1 BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE, TYPE 2 BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- DON'T WALK INDICATOR 16"
  WALK INDICATOR 16"
- Y YIELD SIGN
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N

CTH B/8TH ST.

POSTED SPEED LIMIT = 25 MPH

USH 10 (WALDO BLVD.)

POSTED SPEED LIMIT = 35 MPH

SB11, SB7, SB6, SB9, SB8, PB2, SB10, PB1, SB5, PB3, SB4, SB3, SB2, SB1, EX.CAB.

149+00 150+00 151+00 152+00 153+00 154+00

12+00 11+00 10+00 9+00

CONSTRUCTION NOTES

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA NOT SHOWN.
2. EXISTING CONDUIT RUNS NO LONGER USED FOR THE PROPOSED TRAFFIC SIGNAL INSTALLATION TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY EXISTING TRAFFIC SIGNAL CABLE AND TRAFFIC SIGNAL WIRE NO LONGER USED FOR THE PROPOSED TRAFFIC SIGNAL INSTALLATION.
3. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRES AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.

TRAFFIC CONTROL SIGNAL
USH 10 (WALDO BLVD) & CTH B/8TH ST.
CITY OF MANITOWOC
MANITOWOC COUNTY

SIGNAL NO. ----

REGION CONTACT: M. DEEZUW
DESIGNED BY: AYRES ASSOCIATES INC
REVISED BY: ----

PAGE 1 OF 1

PROJECT NO: 1500-37-71	HWY: USH 10/STH 42	COUNTY: MANITOWOC	TRAFFIC SIGNAL REMOVAL PLAN-8TH ST.	SHEET	E

FILE NAME : V:\TRAFFIC\WK\41062900\SIGNAL PLAN SHEETS\024004 RP.DWG
PLOT DATE : 8/14/2017 2:08 PM PLOT BY : HICKMAN, TRISTAN PLOT NAME : PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 42

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE, TYPE 1 BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE, TYPE 2 BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM, TYPE 10 BASE
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM, TYPE 13 BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- RA RED ARROW
- FY YA YELLOW ARROW
- GA GREEN ARROW
- DON'T WALK INDICATOR 16"
  WALK INDICATOR 16"

LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N

CTH B/8TH ST.

POSTED SPEED LIMIT = 25 MPH

USH 10 (WALDO BLVD.)

POSTED SPEED LIMIT = 35 MPH

R/W

LOOP 41 6'X20' 3 TURNS

LOOP 42 & 43 6'X20' 4 TURNS

LOOP 11 & 12 6'X20' 4 TURNS

LOOP 61 6'X20' 4 TURNS

LOOP 81 & 83 6'X20' 4 TURNS

LOOP 82 6'X20' 4 TURNS

LOOP 21 6'X20' 4 TURNS

125' TO STOP BAR

200' TO STOP BAR

250' TO STOP BAR

ONE WAY

CTH B/8TH ST.

MONOTUBE STRUCTURE NO.	
BASE NO.	STRUCTURE NO.
SB3	S-36-0056
SB7	S-36-0057

CONFIGURATION WITH HEAD NUMBERS

3-V	3-VL	4-VL	PED
1,2,3,6 7,8,9,10 11,12,13,14	15,16	4,5	17,18,19,20 21,22,23,24

CONSTRUCTION NOTES

1. * IS THE FRONT CENTER OF THE LOOP DETECTORS
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 DAYS PRIOR TO PLACING SIGNAL CABLE INTO THE SYSTEM. CONTACT THE CITY OF MANITOWOC AT 920-686-6517 (MARK DEZEEUW).
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITIES ARE APPROXIMATE. THERE MAY BE OTHER WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
4. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICTS WITH EXISTING UTILITY FACILITIES.
5. ALL SIGNAL EQUIPMENT SHALL BE INSTALLED WITH A MINIMUM OF 2-FT CLEARANCE TO THE FACE OF THE CURB UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
6. CONDUIT INSTALLED IN EXISTING PAVEMENT WILL BE CONDUIT 3-INCH SPECIAL.
7. CONCRETE SECTIONS CUT TO PLACE NEW LOOP DETECTORS AT ALL LOCATIONS. REFER TO SDD 9F15 SHEET B 'LOOP DETECTOR INSTALLED IN BASE COURSE (OPTION 2)' FOR INSTALLATION METHOD.
8. CONDUIT EMBEDDED IN A TYPE 9, 10, 12, OR 13 BASE SHALL BE 3" CONDUIT.

TRAFFIC CONTROL SIGNAL
USH 10 (WALDO BLVD) & CTH B/8TH ST.
CITY OF MANITOWOC
MANITOWOC COUNTY

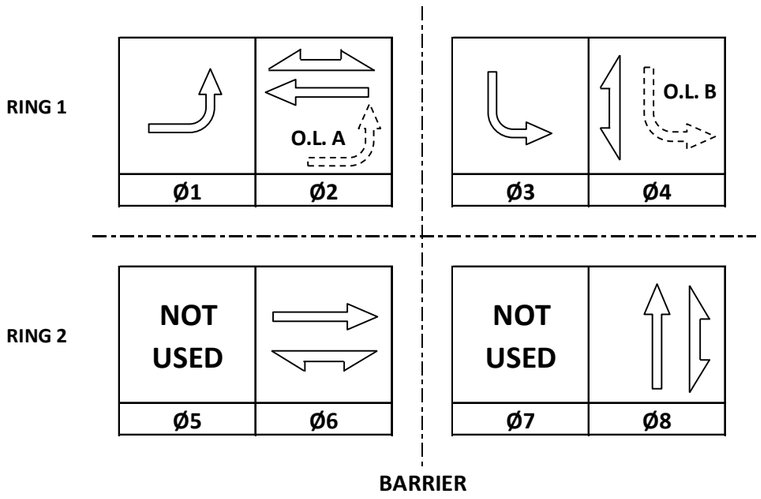
CABINET TYPE: TS-2
SIGNAL NO. ---- CONTROLLER TYPE: EPAC M52

REGION CONTACT: M. DEZEEUW
DESIGNED BY: AYRES ASSOCIATES INC
REVISED BY: ----

PAGE 1 OF 2

PROJECT NO: 1500-37-71	HWY: USH 10/STH 42	COUNTY: MANITOWOC	TRAFFIC SIGNAL PLAN-8TH ST.	SHEET 250	E

	HEAD NUMBERS	FLASH
Ø1	4,5	-
Ø2	6,7,8	R
Ø3	9,10,11	R
Ø4	0	R
Ø5		
Ø6	1,2,3	R
Ø7		
Ø8	12,13,14	R
Ø2P	15,16	
Ø4P	17,18	
Ø6P	19,20	
Ø8P	21,22	
OLA	4,5	R
OLB	9,10,11	R
OLC		
OLD		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3				X
4		8		X
5				
6	X	2	MIN	X
7				
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	--	--	--	--
PHASE				

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
3M	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	21	41	43	51	61		
ASSIGNED PHASE	1	2	4	4	5	6		
OPERATION MODE	VEH	VEH	VEH	VEH	VEH	VEH		
SWITCH								
EXTEND	X	X	X	X	X	X		
DELAY								

19	17	23	21	27	25	31	29	DETECTOR INPUT
								PLAN LOOP DETECTOR*(S)
								ASSIGNED PHASE
								OPERATION MODE
								SWITCH
								EXTEND
								DELAY

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12		42		52			
ASSIGNED PHASE	1		4		5			
OPERATION MODE	VEH		VEH		VEH			
SWITCH								
EXTEND	X		X		X			
DELAY								

20	18	24	22	28	26	32	30	DETECTOR INPUT
								PLAN LOOP DETECTOR*(S)
								ASSIGNED PHASE
								OPERATION MODE
								SWITCH
								EXTEND
								DELAY

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.

USH 10/STH 42 & 8TH ST
CITY OF MANITOWOC
MANITOWOC COUNTY

SIGNAL NO: N/A CABINET TYPE: TS2
CONTROLLER TYPE: EPAC M52
DATE: 0 PAGE NO. 2 OF 2

PROJECT ID:	1500-37-71
INTERSECTION:	USH 10 & 8TH AVE.

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	JUMPER	SIGNAL INDICATION WIRE COLOR									
				RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK	PED BUTTON
SB1	12	10					RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT			
		19									BLK	BLU	
		BUTTON											WHT/BLK
SB2	12	1		RED	ORG	GRN							
		18									BLK	BLU	
		BUTTON											WHT/BLK
SB3	12	7		RED	ORG	GRN							
		8		RED/BLK	ORG/BLK	GRN/BLK							
		16									BLK	BLU	
		BUTTON											WHT/BLK
SB4	12	9		RED	ORG	GRN							
		13		RED/BLK	ORG/BLK	GRN/BLK							
		17									BLK	BLU	
		BUTTON											WHT/BLK
SB5	12	14		RED	ORG	GRN							
		22									BLK	BLU	
		BUTTON											WHT/BLK
SB6	15	4					RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT			
		6		RED	ORG	GRN							
		15									BLK	BLU	
		BUTTON											WHT/BLK
SB7	19	2		RED	ORG	GRN							
		3		RED/BLK	ORG/BLK	GRN/BLK							
		5					RED/WHT	BLU/WHT	GRN/WHT	BLK/WHT			
		20									BLK	BLU	
		BUTTON											WHT/BLK
SB8	15	11					RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT			
		12		RED	ORG	GRN							
		21									BLK	BLU	
		BUTTON											WHT/BLK

NOTE:

- **Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications**
- **Ensure the grounded conductor in the feeder cable and the pole cables are both 18” longer than the ungrounded conductors.**
- **At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.**
- **Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.**

TRAFFIC CONTROL SIGNAL
USH 10 (WALDO BLVD.) & 8TH AVE.
CITY OF MANITOWOC
MANITOWOC COUNTY

PROJECT NO: 1500-37-71	HWY: USH 10/STH 42	COUNTY: MANITOWOC	CABLE ROUTING SHEET	SHEET NO: 252	E

Equipment grounding conductor 10 AWG Green XLP	
FROM	TO
CAB.	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	CAB.

Pull Box Bonding Jumper 10 AWG Green XLP	
FROM	To
PB1	SB1
PB2	SB1
PB3	SB2
PB4	SB2
PB6	SB3
PB7	SB3
PB8	SB4
PB9	SB5
PB10	SB6
PB12	SB6
PB13	SB7
PB14	SB8

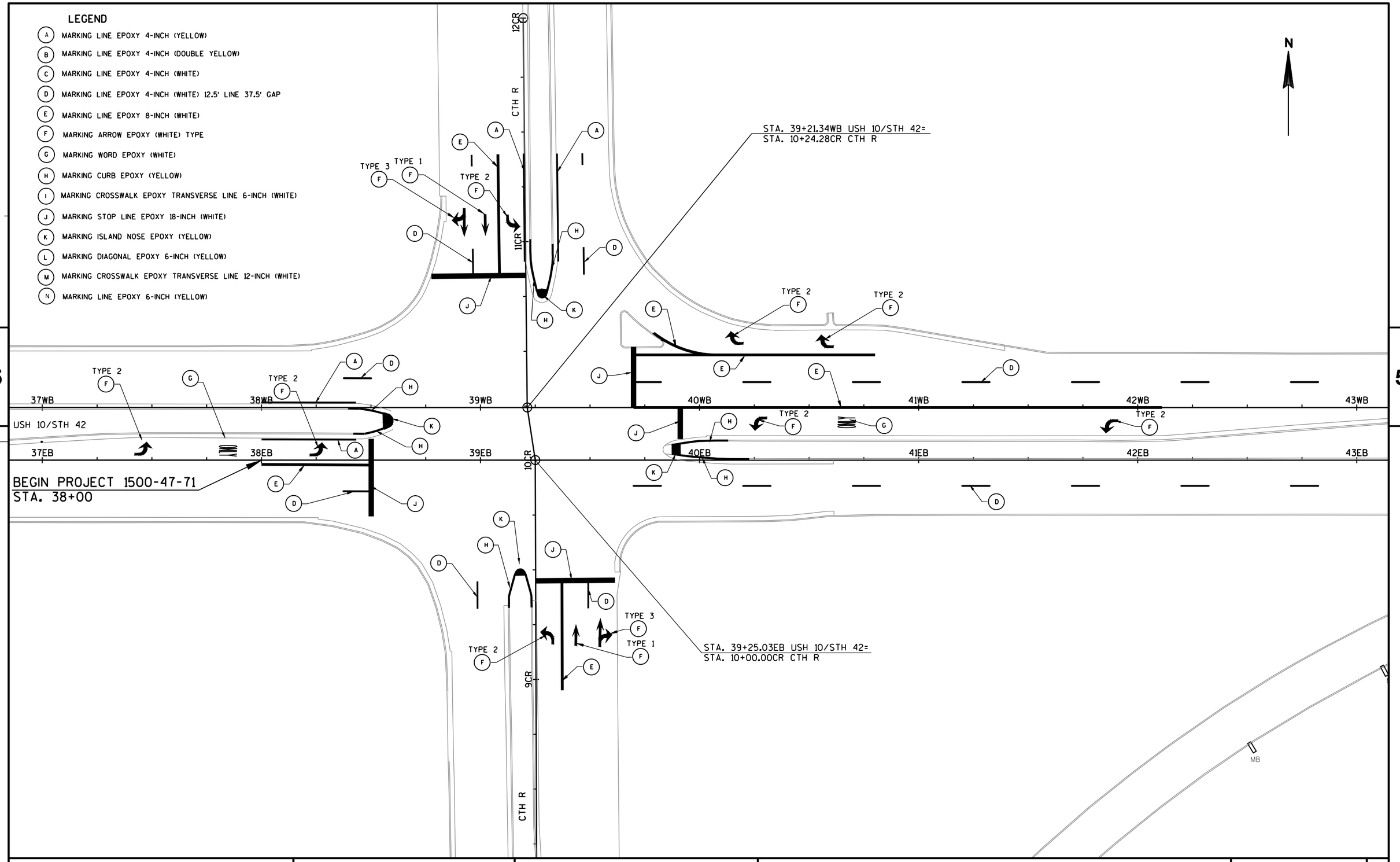
TRAFFIC CONTROL SIGNAL
USH 10 (WALDO BLVD.) & 8TH AVE.
CITY OF MANITOWOC
MANITOWOC COUNTY

PAGE 2 OF 2

PROJECT NO: 1500-37-71	HWY: USH 10/STH 42	COUNTY: MANITOWOC	CABLE ROUTING SHEET	SHEET NO: 253	E

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE) TYPE
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)



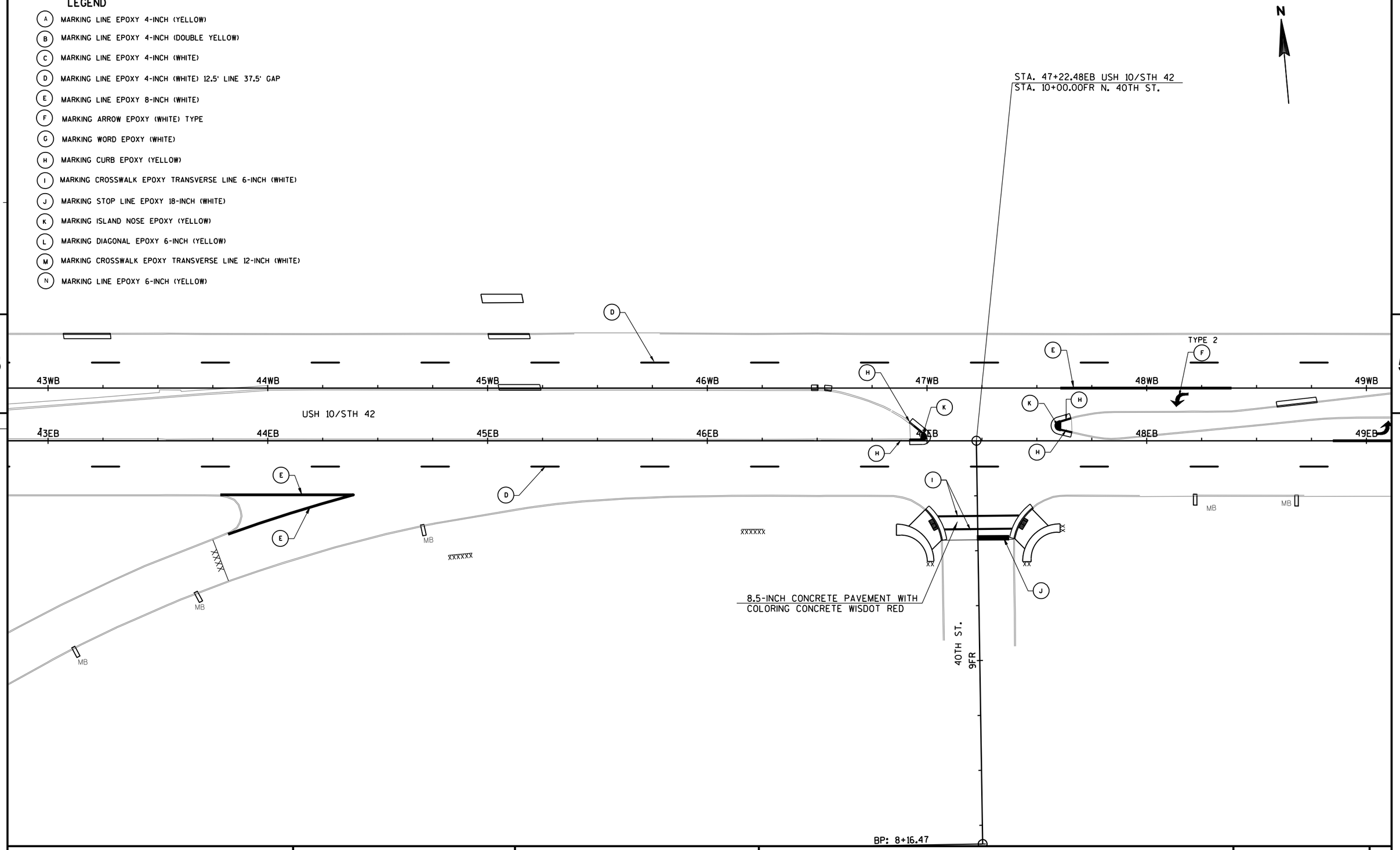
PROJECT NO: 1500-47-71	HWY: USH 10	COUNTY: MANITOWOC	MARKING LINE	SHEET 254	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_47_71_024501_PM.DWG PLOT DATE : 8/14/2017 7:02 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : 024501 pm PLOT SCALE : 1in:40 ft_XREF

WISDOT/CADDS SHEET 44

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE) TYPE
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)



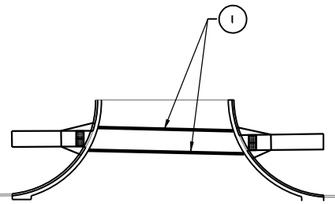
PROJECT NO: 1500-47-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET	E

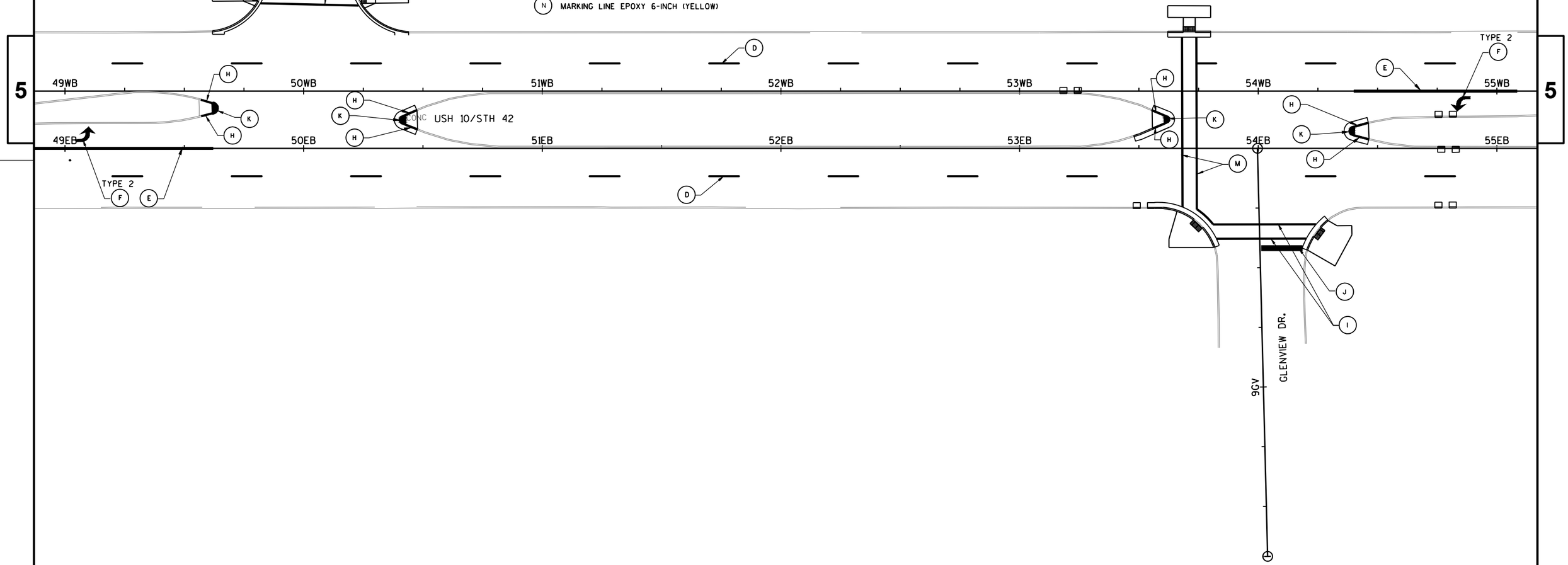
FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_47_71_024502_PM.DWG PLOT DATE : 8/14/2017 7:05 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : 024502 pm PLOT SCALE : 1in:40 ft_XREF
WISDOT/CADDS SHEET 44

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE) TYPE
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)

N





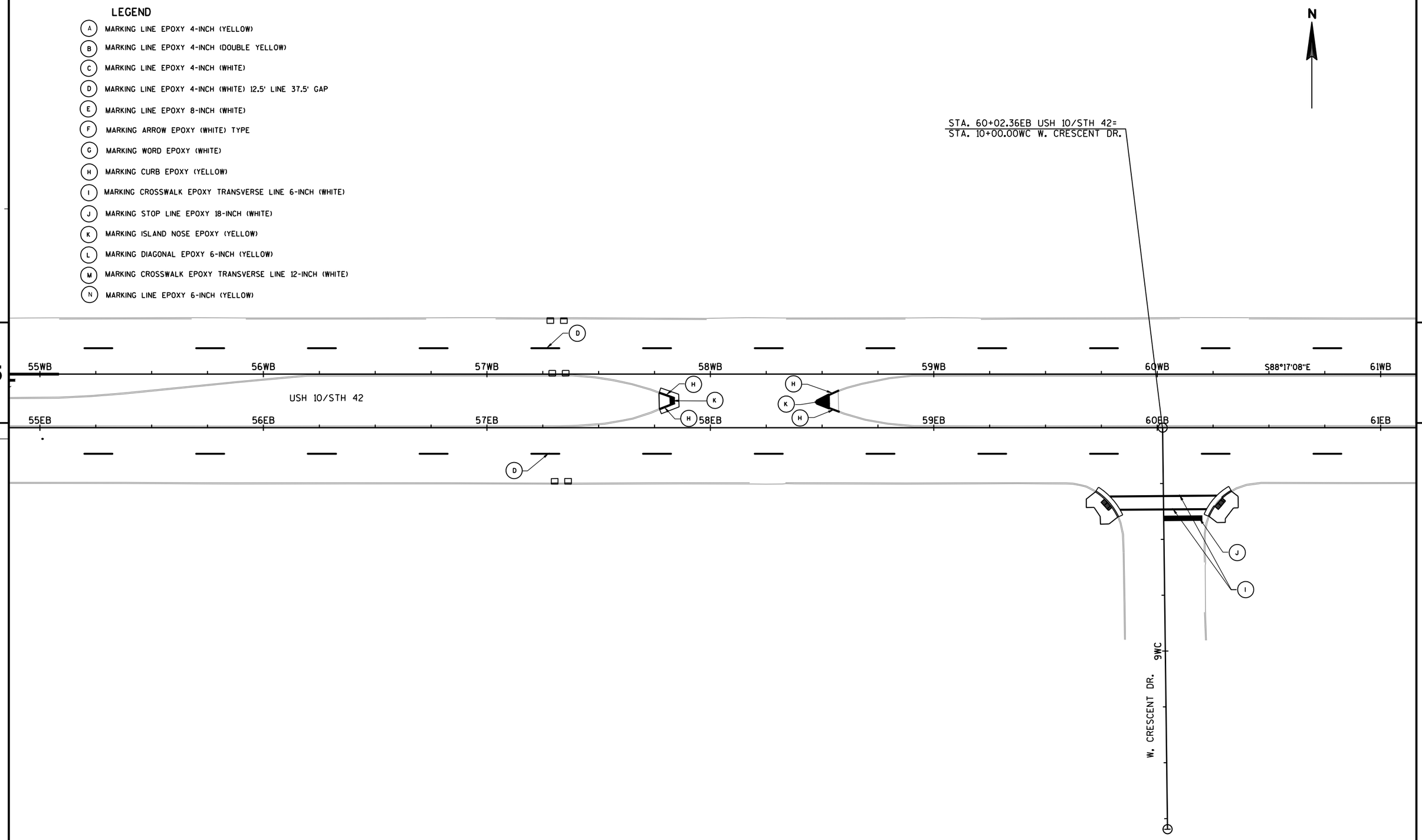
PROJECT NO: 1500-47-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_47_71_024503_PM.DWG PLOT DATE : 8/14/2017 7:08 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : 024503 pm PLOT SCALE : 1in:40 ft_XREF

WISDOT/CADDS SHEET 44

LEGEND

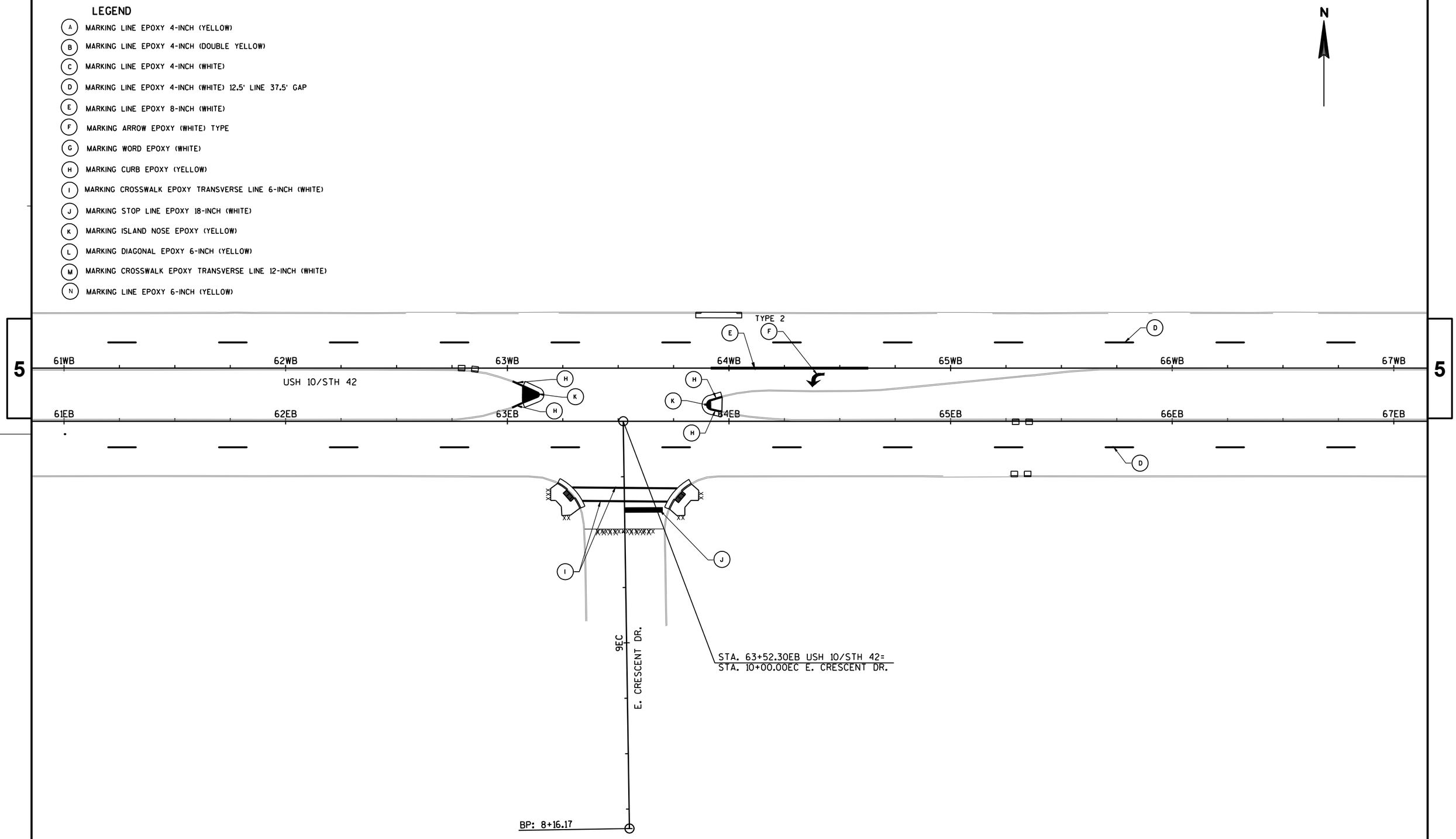
- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE) TYPE
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)



PROJECT NO: 1500-47-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET 257	E

LEGEND

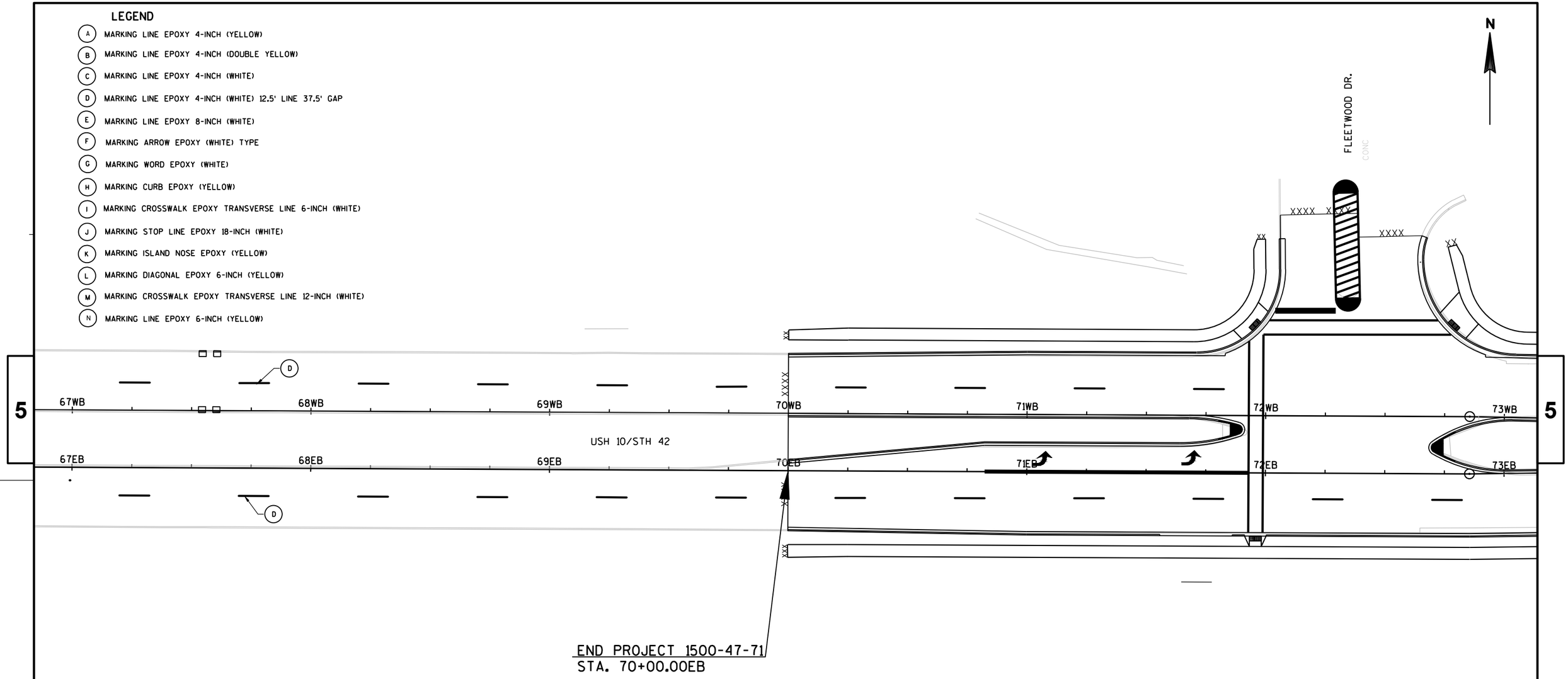
- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE) TYPE
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)



PROJECT NO: 1500-47-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET 258	E

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE) TYPE
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)

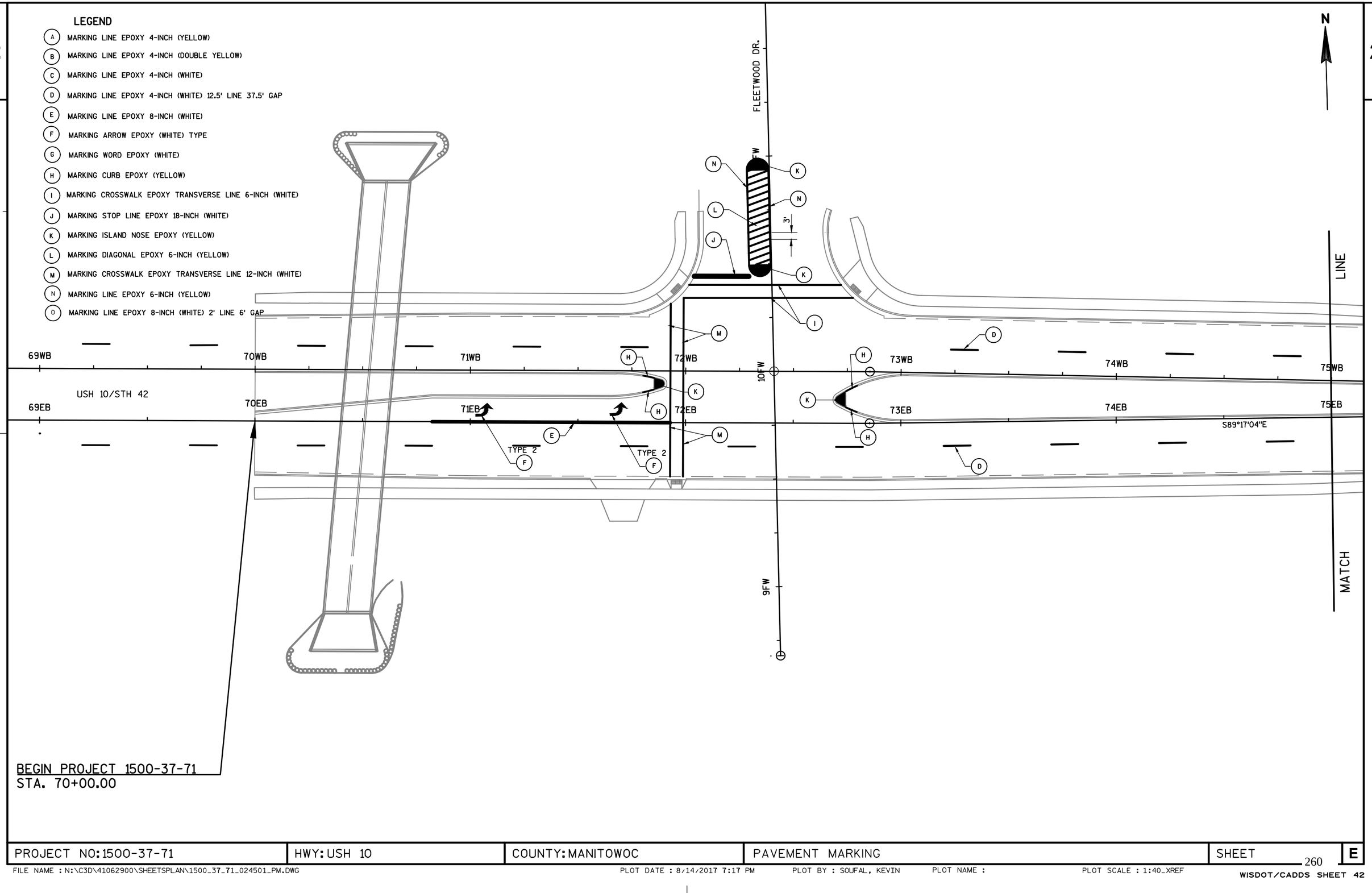


PROJECT NO: 1500-47-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_47_71_024506_PM.DWG PLOT DATE : 8/14/2017 7:16 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : 024506 pm PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 44

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE) TYPE
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)
- (O) MARKING LINE EPOXY 8-INCH (WHITE) 2' LINE 6' GAP



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_024501_PM.DWG PLOT DATE : 8/14/2017 7:17 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

2

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE) TYPE
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)
- (O) MARKING LINE EPOXY 8-INCH (WHITE) 2' LINE 6' GAP

N

2

LINE

LINE

USH 10/STH 42

75WB 76WB 77WB 78WB 79WB 80WB 81WB

75EB 76EB 77EB 78EB 79EB 80EB 81EB

D

D

MATCH

MATCH

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_024502_PM.DWG PLOT DATE : 8/14/2017 7:19 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

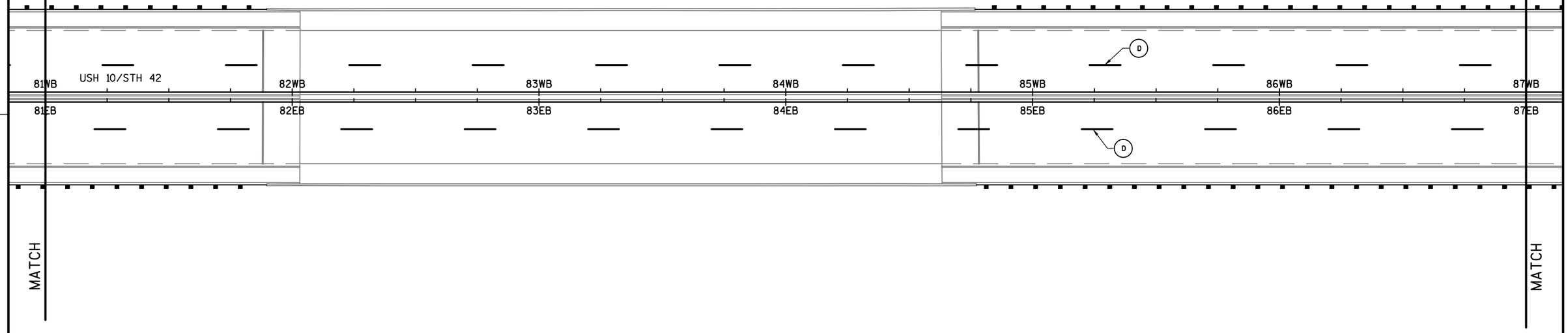
- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE) TYPE
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)
- (O) MARKING LINE EPOXY 8-INCH (WHITE) 2' LINE 6' GAP

N

2

LINE

LINE



MATCH

MATCH

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET	E

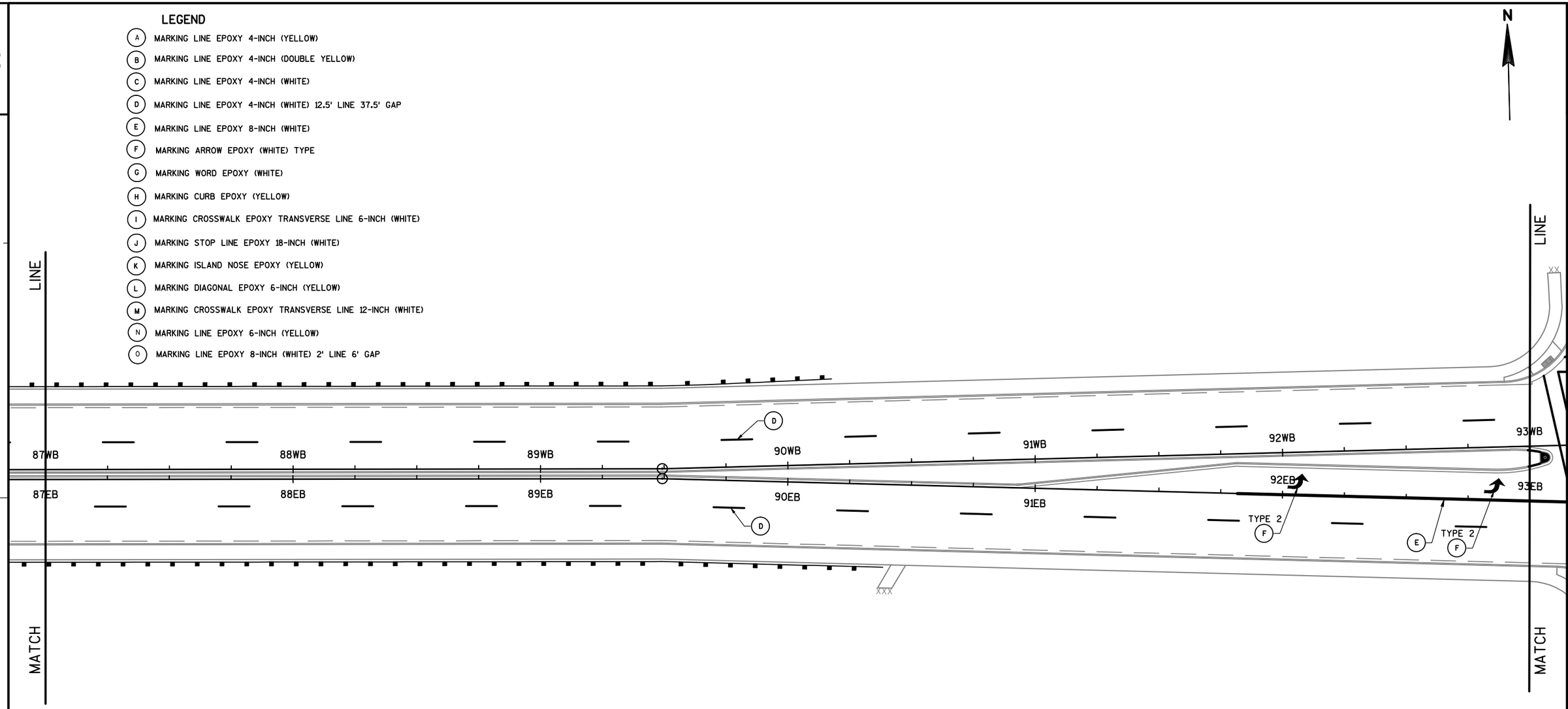
FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_024503_PM.DWG PLOT DATE : 8/14/2017 7:20 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1in:40 ft_XREF

WISDOT/CADDS SHEET 42

2

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE) TYPE
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)
- (O) MARKING LINE EPOXY 8-INCH (WHITE) 2' LINE 6' GAP

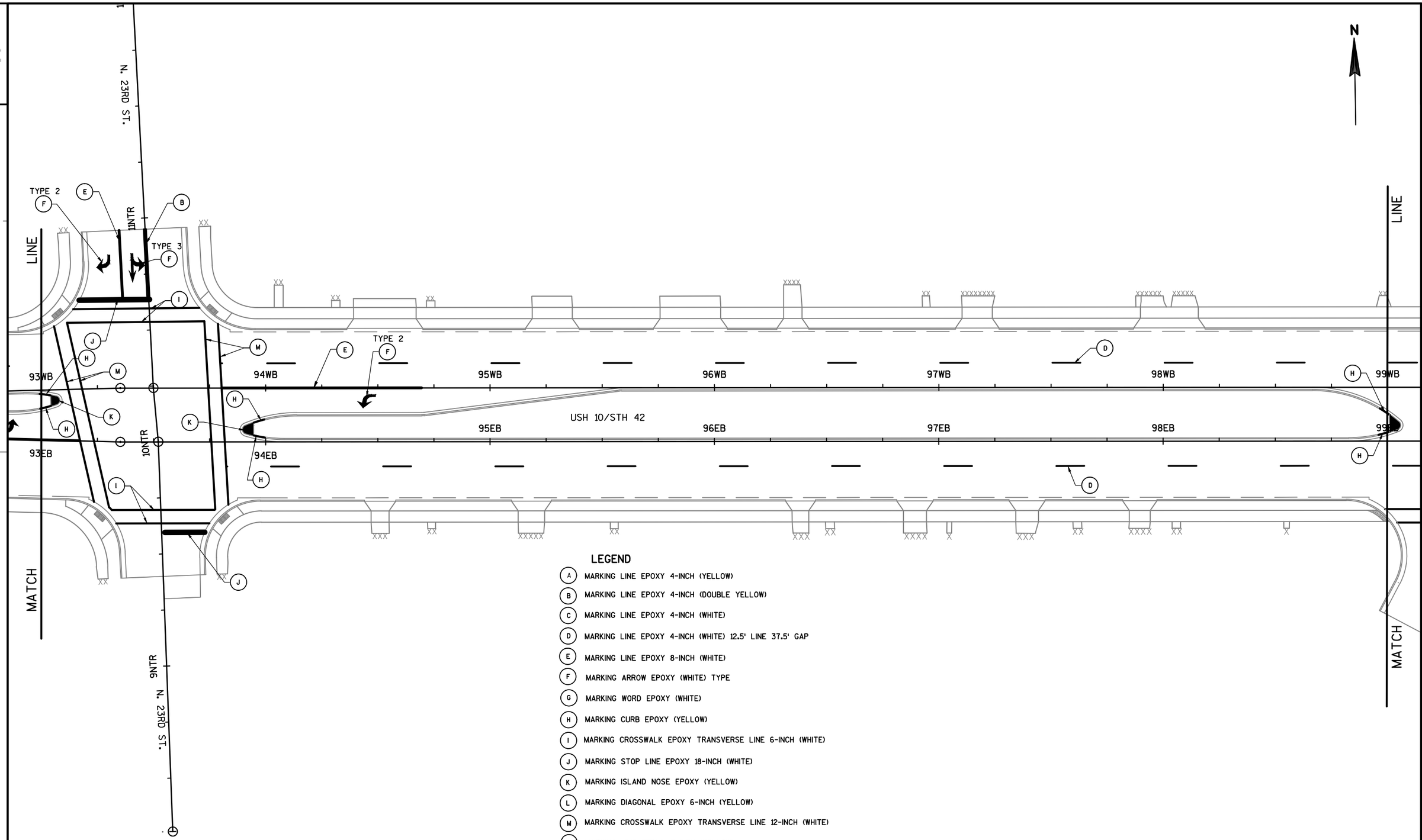


2

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_024504_PM.DWG PLOT DATE : 8/14/2017 7:22 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

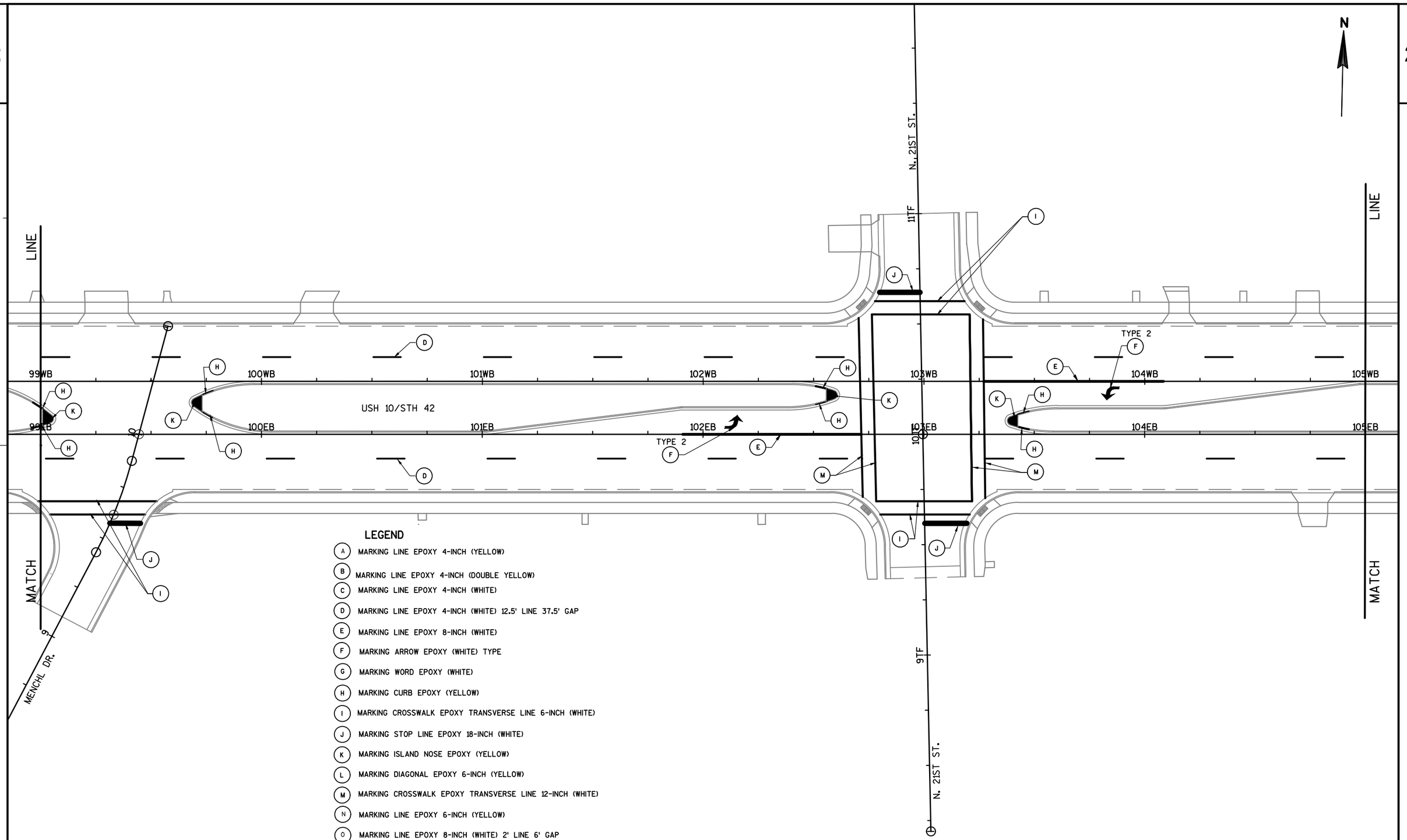


LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE) TYPE
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)
- (O) MARKING LINE EPOXY 8-INCH (WHITE) 2' LINE 6' GAP

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_024505_PM.DWG PLOT DATE : 8/14/2017 7:23 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF

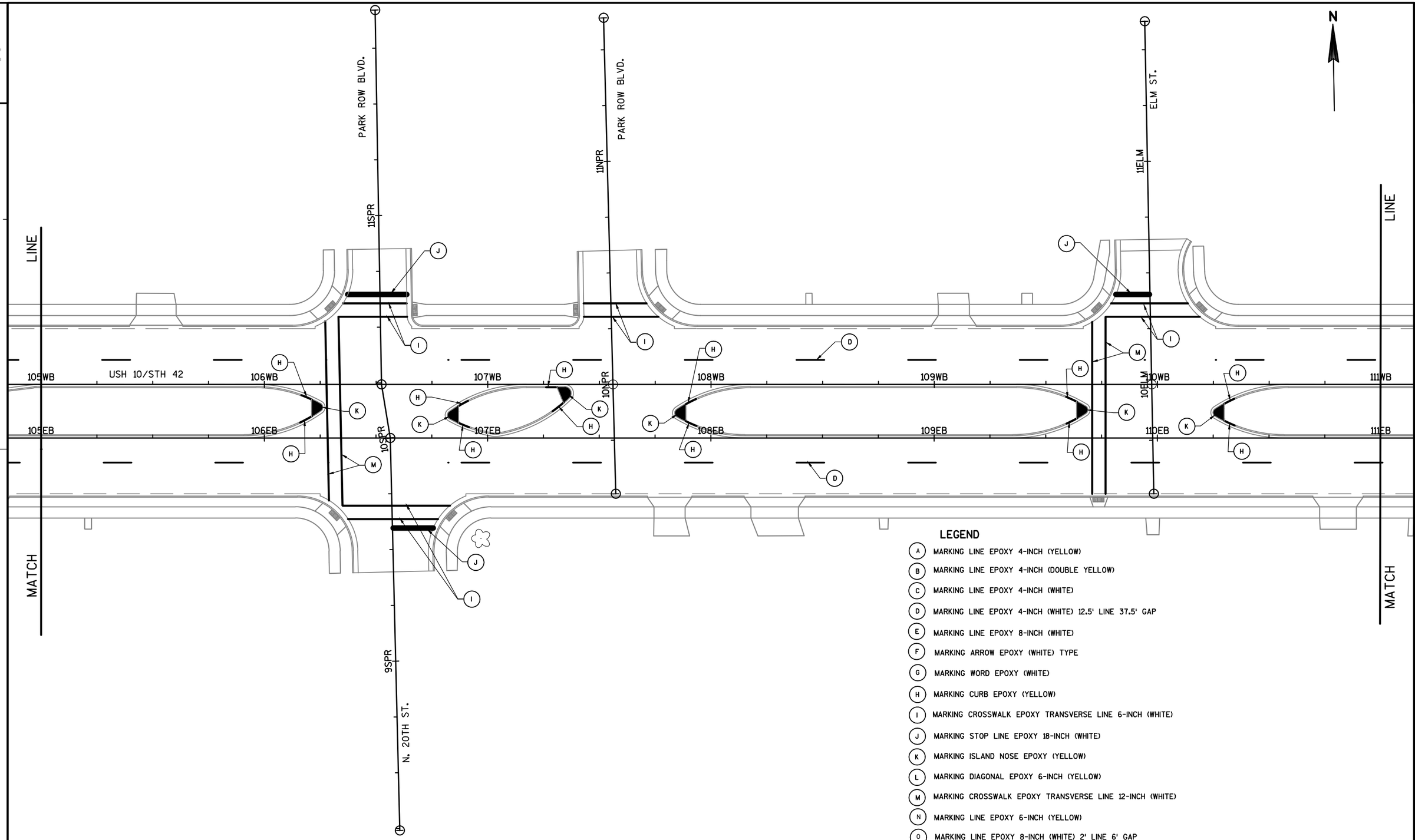


LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE) TYPE
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)
- (O) MARKING LINE EPOXY 8-INCH (WHITE) 2' LINE 6' GAP

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_024506_PM.DWG PLOT DATE : 8/14/2017 7:25 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF



LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE) TYPE
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)
- (O) MARKING LINE EPOXY 8-INCH (WHITE) 2' LINE 6' GAP

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_024507_PM.DWG PLOT DATE : 8/14/2017 7:26 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF

2

2

N

LINE

LINE

MATCH

MATCH

USH 10/STH 42

111WB 112WB 113WB 114WB 115WB 116WB 117WB

111EB 112EB 113EB 114EB 115EB 116EB 117EB

D D E E F TYPE 2 G

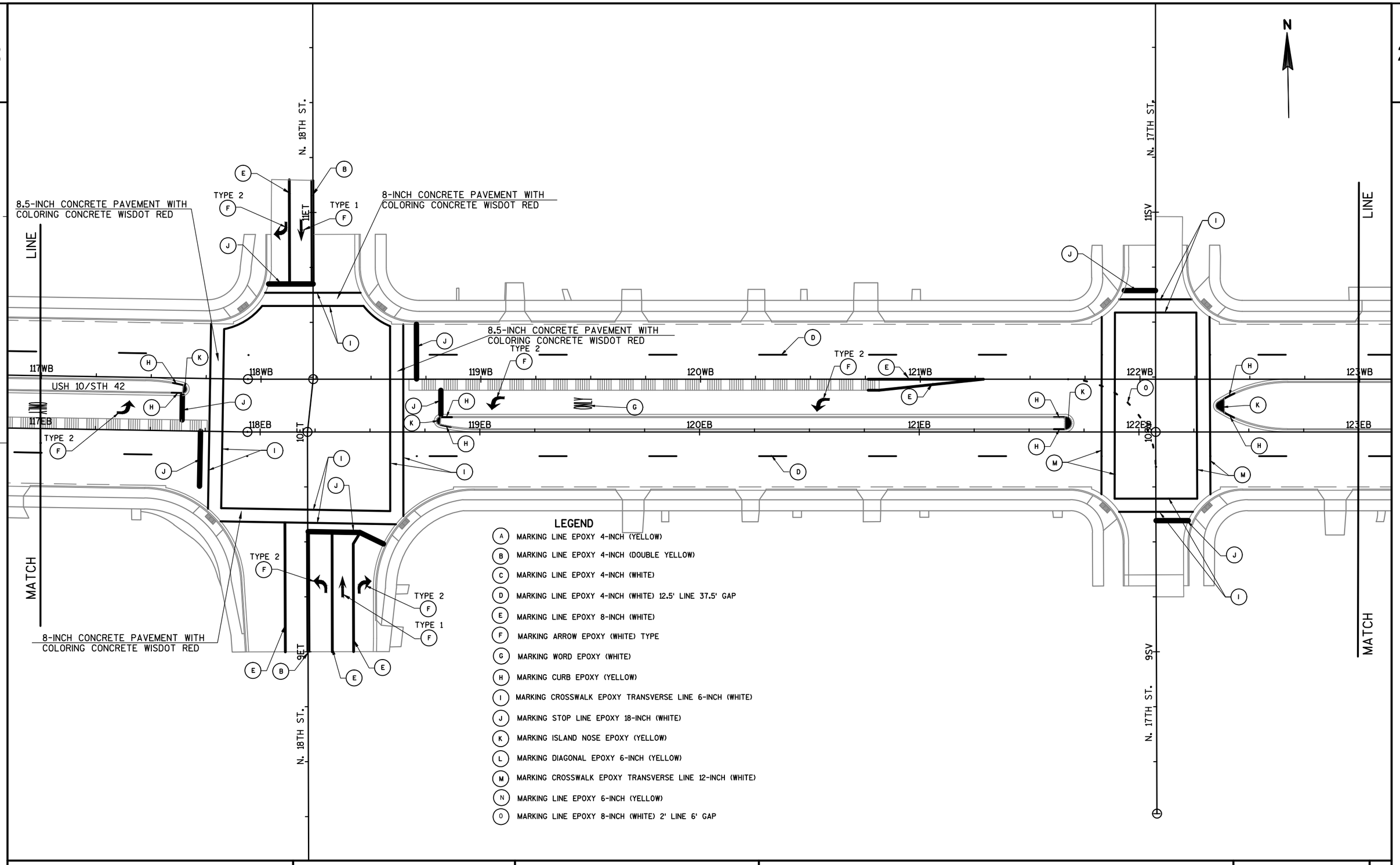
LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE) TYPE
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)
- (O) MARKING LINE EPOXY 8-INCH (WHITE) 2' LINE 6' GAP

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_024508_PM.DWG PLOT DATE : 8/14/2017 7:28 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_024509_PM.DWG PLOT DATE : 8/14/2017 7:29 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1in:40 ft_XREF

WISDOT/CADDS SHEET 42

2

N

LINE

MATCH

N. 16TH ST.

N. 15TH ST.

11ST

11FT

10ST

10FT

9ST

9FT

USH 10/STH 42

123WB 124WB 125WB 126WB 127WB 128WB 129WB

123EB 124EB 125EB 126EB 127EB 128EB 129EB

8-INCH CONCRETE PAVEMENT WITH COLORING CONCRETE WISDOT RED

8.5-INCH CONCRETE PAVEMENT WITH COLORING CONCRETE WISDOT RED

8-INCH CONCRETE PAVEMENT WITH COLORING CONCRETE WISDOT RED

8.5-INCH CONCRETE PAVEMENT WITH COLORING CONCRETE WISDOT RED

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE) TYPE
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)
- (O) MARKING LINE EPOXY 8-INCH (WHITE) 2' LINE 6' GAP

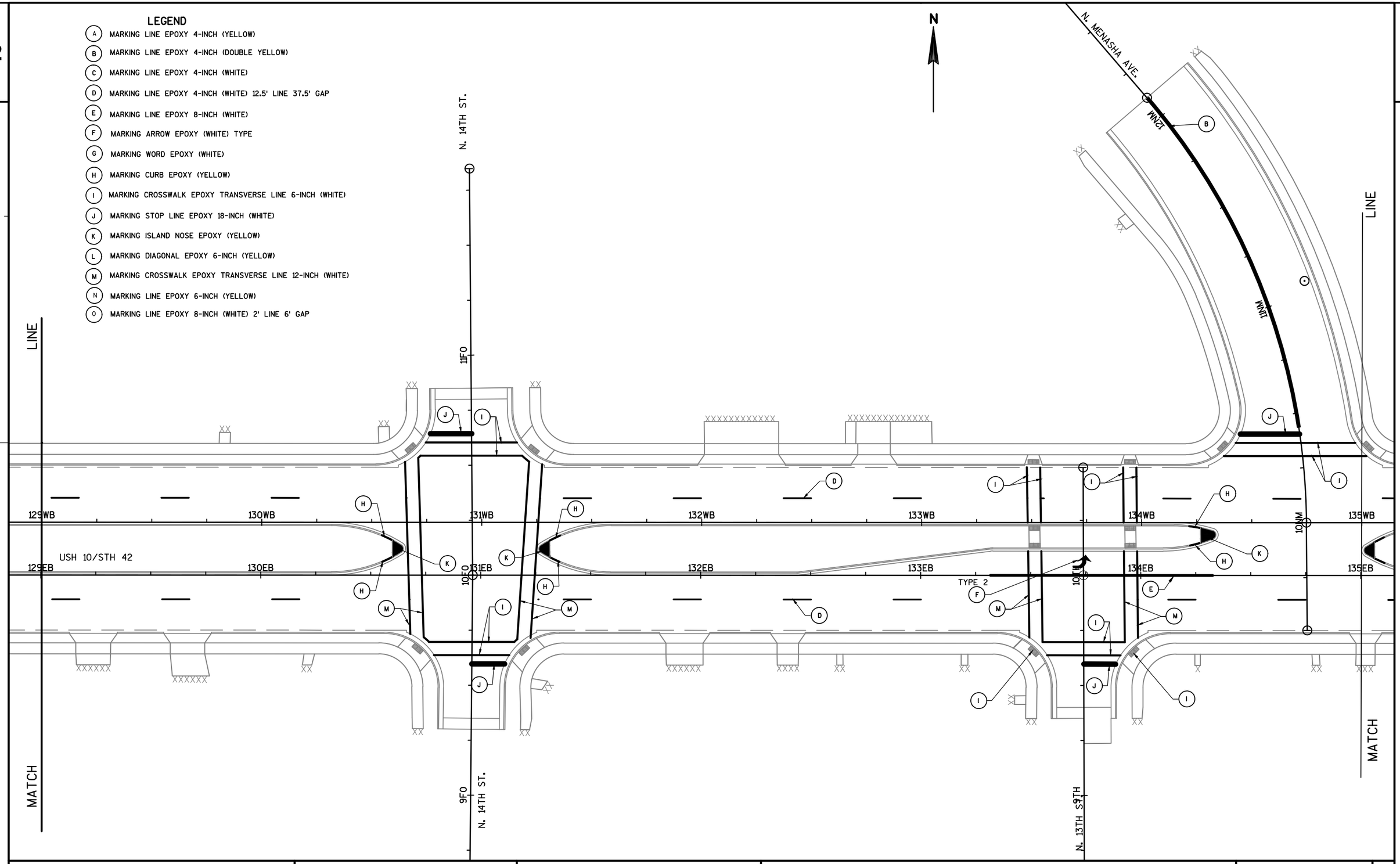
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_024510_PM.DWG PLOT DATE : 8/14/2017 7:31 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

2

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE) TYPE
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)
- (O) MARKING LINE EPOXY 8-INCH (WHITE) 2' LINE 6' GAP



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_024511_PM.DWG PLOT DATE : 8/14/2017 7:33 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 42

2

LINE

N. 12TH ST.

11TW

10TW

9TW

8TW

N

135WB 136WB 137WB 138WB 139WB 140WB 141WB

135EB 136EB 137EB 138EB 139EB 140EB 141EB

USH 10/STH 42

TYPE 2

TYPE 2

MATCH

MATCH

WS01

WS6

MENASHA AVE.

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE) TYPE
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)
- (O) MARKING LINE EPOXY 8-INCH (WHITE) 2' LINE 6' GAP

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_024512_PM.DWG PLOT DATE : 8/14/2017 7:34 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1in:40 ft_XREF

WISDOT/CADDS SHEET 42

2

N

N. 11TH ST.

11EL

10EL

9EL

10TN

9TN

N. 10TH ST.

N. 11TH ST.

LINE

LINE

MATCH

MATCH

TYPE 2

TYPE 3

TYPE 2

TYPE 2

TYPE 2

8-INCH CONCRETE PAVEMENT WITH COLORING CONCRETE WISDOT RED

8.5-INCH CONCRETE PAVEMENT WITH COLORING CONCRETE WISDOT RED

8-INCH CONCRETE PAVEMENT WITH COLORING CONCRETE WISDOT RED

8.5-INCH CONCRETE PAVEMENT WITH COLORING CONCRETE WISDOT RED

USH 10/STH 42

141WB

141EB

142WB

142EB

143WB

143EB

144WB

144EB

145WB

145EB

146WB

146EB

147WB

147EB

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE) TYPE
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)
- (O) MARKING LINE EPOXY 8-INCH (WHITE) 2' LINE 6' GAP

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_024513_PM.DWG PLOT DATE : 8/14/2017 7:36 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF

2

N

LINE

MATCH

N. 9TH ST.

N. 8TH ST.

11NN

10NN

9NN

10EG

11EG

USH 10/STH 42

147WB 148WB 149WB 150WB 151WB 152WB 153WB

147EB 148EB 149EB 150EB 151EB 152EB 153EB

8-INCH CONCRETE PAVEMENT WITH
COLORING CONCRETE WISDOT RED

8.5-INCH CONCRETE PAVEMENT WITH
COLORING CONCRETE WISDOT RED

TYPE 2

TYPE 1

ONLY

END PROJECT 1500-37-71
STA. 152+25.00

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE) TYPE
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)
- (O) MARKING LINE EPOXY 8-INCH (WHITE) 2' LINE 6' GAP

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_024514_PM.DWG PLOT DATE : 8/14/2017 7:37 PM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1in:40 ft_XREF

WISDOT/CADDS SHEET 42

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE)
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)
- (O) MARKING LINE EPOXY 8-INCH (WHITE) 2' LINE 6' GAP
- (P) MARKING DIAGONAL EPOXY 12-INCH (WHITE)
- (R) MARKING LINE EPOXY 8-INCH (WHITE) 6' LINE 3' GAP
- (S) MARKING LINE YIELD LINE EPOXY 18-INCH (WHITE) 2' LINE 2' GAP

2

N

N. 8TH ST.

ONLY ONLY

ONLY ONLY ONLY

N. 8TH ST.

151WB 152WB 153WB 154WB 155WB 156WB 157WB

151EB 152EB 153EB 154EB 155EB 156EB 157EB

STH 42

S89°18'48"E

BEGIN PROJECT 4570-12-71
STA. 152+25.00

12SL 12NL

11SL 11NL

LINCOLN BLVD. (WEST)

LINCOLN BLVD. (EAST)

10SL 10NL

9SL 9NL

LINCOLN BLVD. (WEST)

LINCOLN BLVD. (EAST)

MATCH LINE

MATCH

2

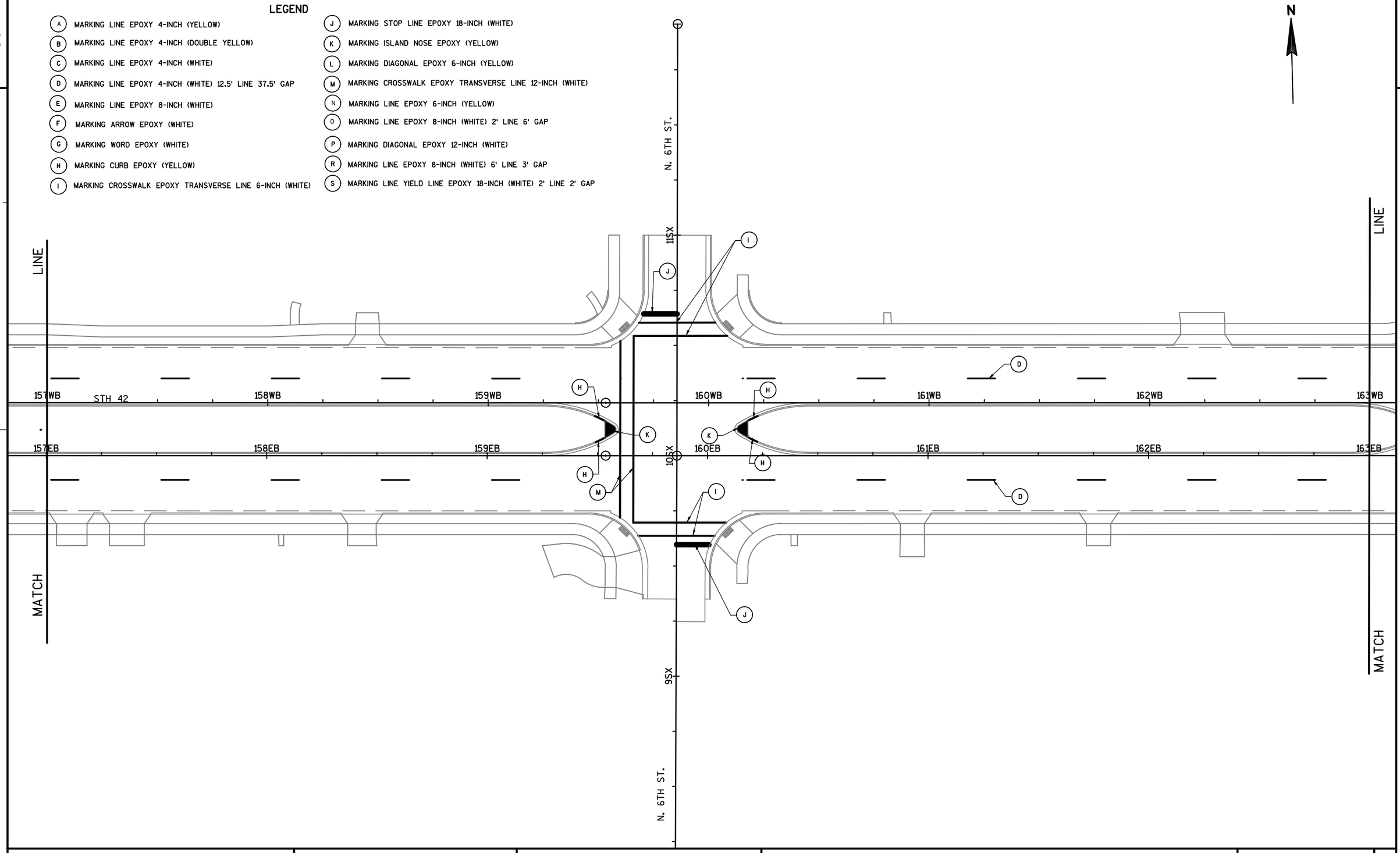
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_024501 PM.DWG PLOT DATE : 8/16/2017 7:10 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE)
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)
- (O) MARKING LINE EPOXY 8-INCH (WHITE) 2' LINE 6' GAP
- (P) MARKING DIAGONAL EPOXY 12-INCH (WHITE)
- (R) MARKING LINE EPOXY 8-INCH (WHITE) 6' LINE 3' GAP
- (S) MARKING LINE YIELD LINE EPOXY 18-INCH (WHITE) 2' LINE 2' GAP



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_024502 PM.DWG PLOT DATE : 8/16/2017 7:10 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1" = 40'_XREF

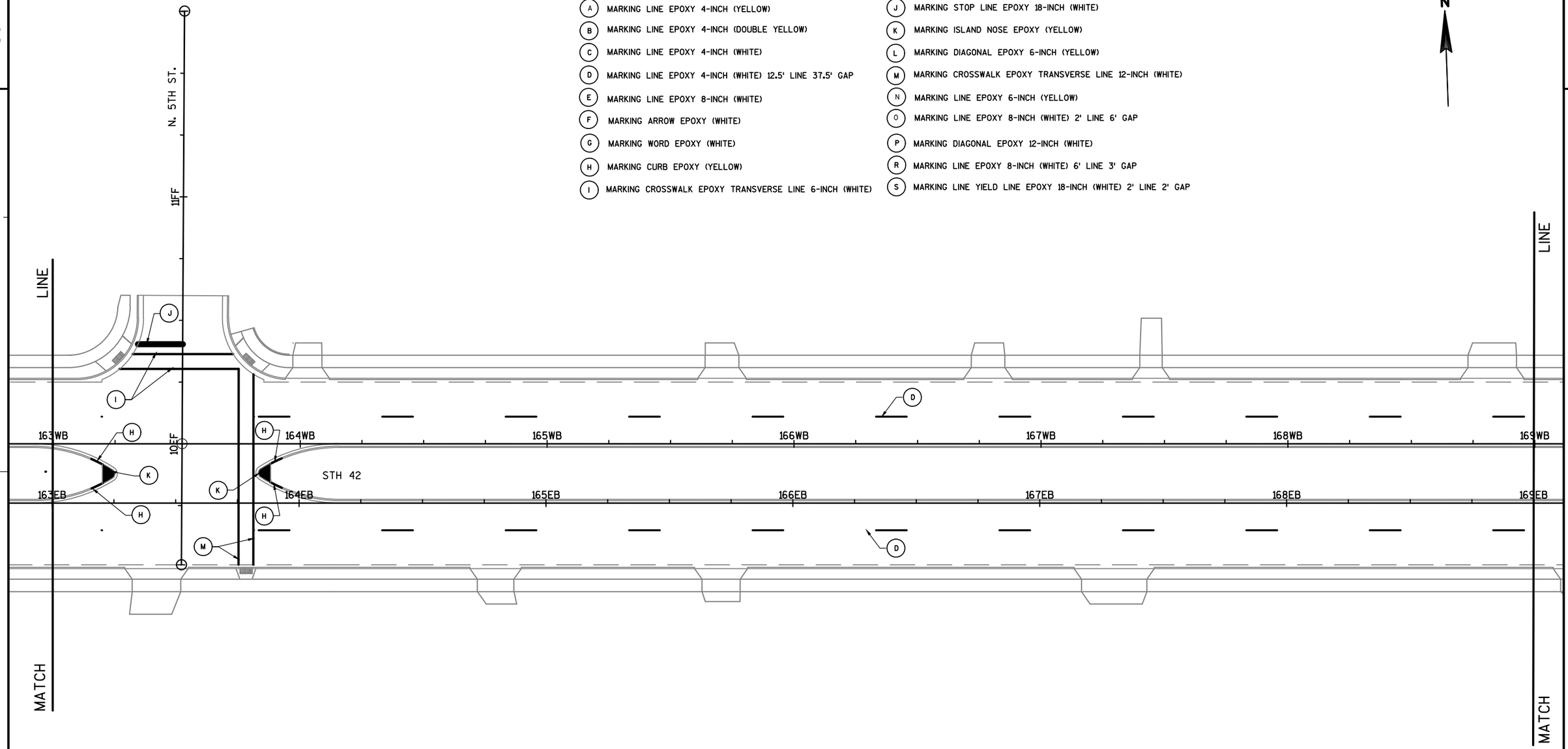
WISDOT/CADDS SHEET 42

2

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE)
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)
- (O) MARKING LINE EPOXY 8-INCH (WHITE) 2' LINE 6' GAP
- (P) MARKING DIAGONAL EPOXY 12-INCH (WHITE)
- (R) MARKING LINE EPOXY 8-INCH (WHITE) 6' LINE 3' GAP
- (S) MARKING LINE YIELD LINE EPOXY 18-INCH (WHITE) 2' LINE 2' GAP

N



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_024503 PM.DWG PLOT DATE : 8/16/2017 7:10 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1in:40 ft_XREF

WISDOT/CADDS SHEET 42

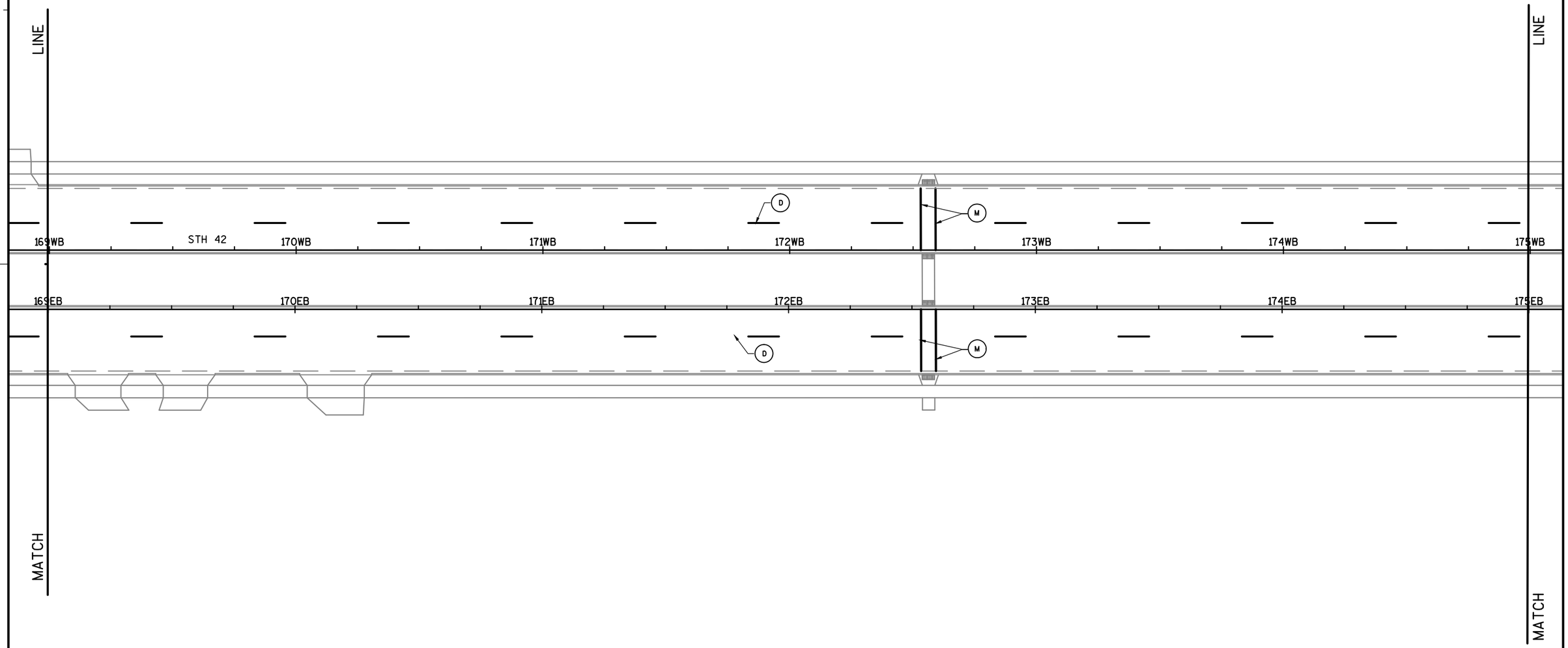
2

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE)
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)
- (O) MARKING LINE EPOXY 8-INCH (WHITE) 2' LINE 6' GAP
- (P) MARKING DIAGONAL EPOXY 12-INCH (WHITE)
- (R) MARKING LINE EPOXY 8-INCH (WHITE) 6' LINE 3' GAP
- (S) MARKING LINE YIELD LINE EPOXY 18-INCH (WHITE) 2' LINE 2' GAP

N

2



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET 277	E

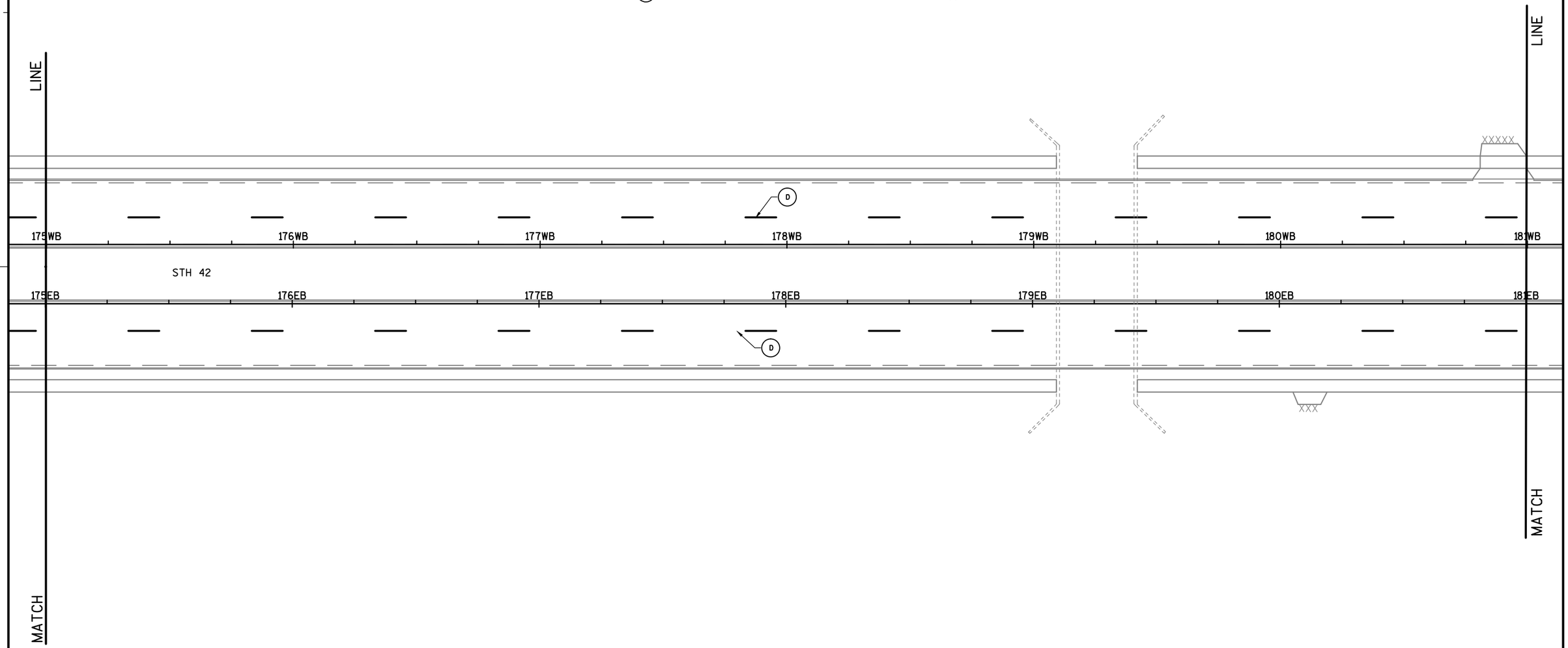
2

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE)
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)
- (O) MARKING LINE EPOXY 8-INCH (WHITE) 2' LINE 6' GAP
- (P) MARKING DIAGONAL EPOXY 12-INCH (WHITE)
- (R) MARKING LINE EPOXY 8-INCH (WHITE) 6' LINE 3' GAP
- (S) MARKING LINE YIELD LINE EPOXY 18-INCH (WHITE) 2' LINE 2' GAP

N

2



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_024505 PM.DWG PLOT DATE : 8/16/2017 7:11 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1in:40 ft_XREF

WISDOT/CADDS SHEET 42

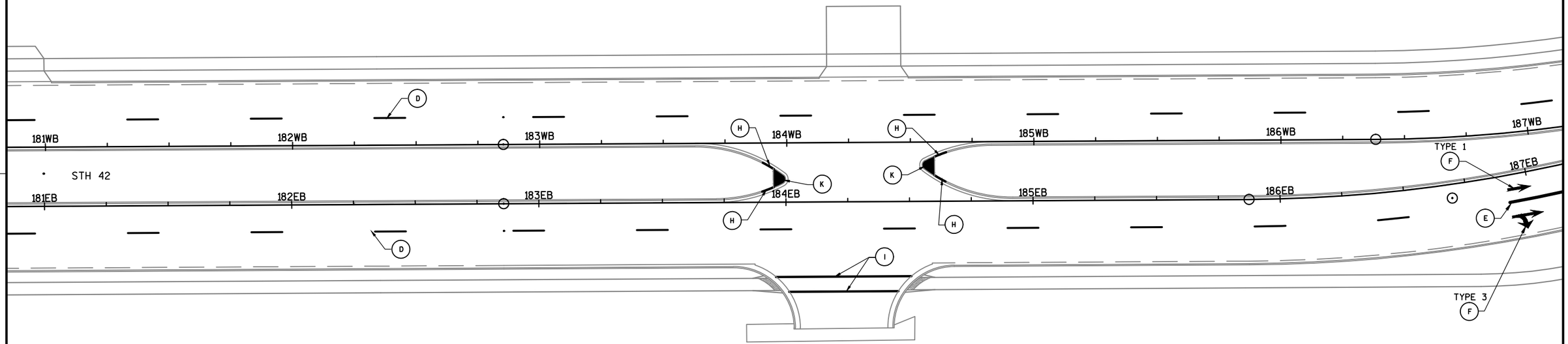
2

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE)
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)
- (O) MARKING LINE EPOXY 8-INCH (WHITE) 2' LINE 6' GAP
- (P) MARKING DIAGONAL EPOXY 12-INCH (WHITE)
- (R) MARKING LINE EPOXY 8-INCH (WHITE) 6' LINE 3' GAP
- (S) MARKING LINE YIELD LINE EPOXY 18-INCH (WHITE) 2' LINE 2' GAP

N

2



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_024506 PM.DWG PLOT DATE : 8/16/2017 7:12 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1in:40 ft_XREF

WISDOT/CADDS SHEET 42

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE)
- (G) MARKING WORD EPOXY (WHITE)
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- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
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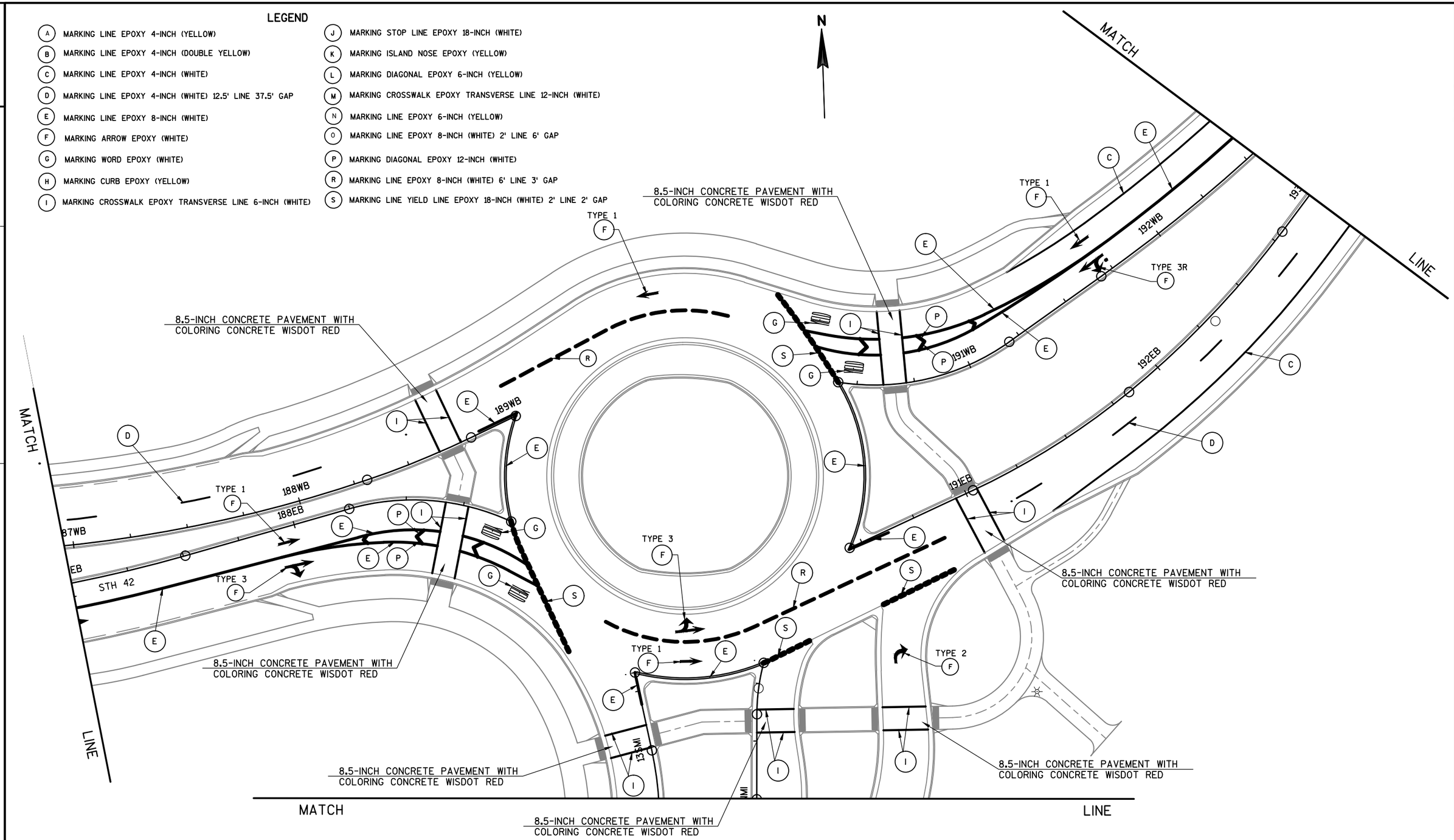
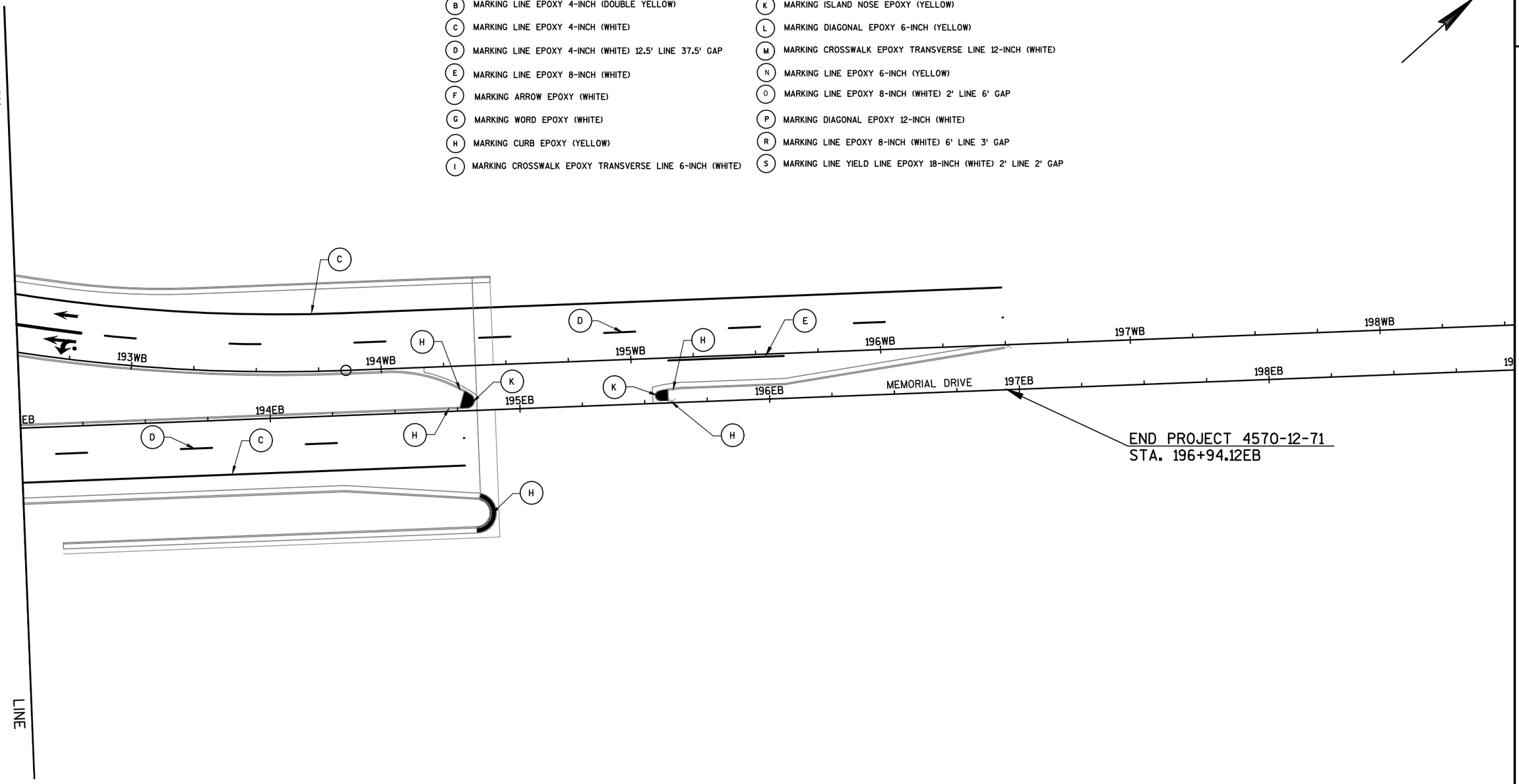
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)
- (O) MARKING LINE EPOXY 8-INCH (WHITE) 2' LINE 6' GAP
- (P) MARKING DIAGONAL EPOXY 12-INCH (WHITE)
- (R) MARKING LINE EPOXY 8-INCH (WHITE) 6' LINE 3' GAP
- (S) MARKING LINE YIELD LINE EPOXY 18-INCH (WHITE) 2' LINE 2' GAP



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET 280	E

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
- (F) MARKING ARROW EPOXY (WHITE)
- (G) MARKING WORD EPOXY (WHITE)
- (H) MARKING CURB EPOXY (YELLOW)
- (I) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH (WHITE)
- (J) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (K) MARKING ISLAND NOSE EPOXY (YELLOW)
- (L) MARKING DIAGONAL EPOXY 6-INCH (YELLOW)
- (M) MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH (WHITE)
- (N) MARKING LINE EPOXY 6-INCH (YELLOW)
- (O) MARKING LINE EPOXY 8-INCH (WHITE) 2' LINE 6' GAP
- (P) MARKING DIAGONAL EPOXY 12-INCH (WHITE)
- (R) MARKING LINE EPOXY 8-INCH (WHITE) 6' LINE 3' GAP
- (S) MARKING LINE YIELD LINE EPOXY 18-INCH (WHITE) 2' LINE 2' GAP



2

LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (DOUBLE YELLOW)
- (C) MARKING LINE EPOXY 4-INCH (WHITE)
- (D) MARKING LINE EPOXY 4-INCH (WHITE) 12.5' LINE 37.5' GAP
- (E) MARKING LINE EPOXY 8-INCH (WHITE)
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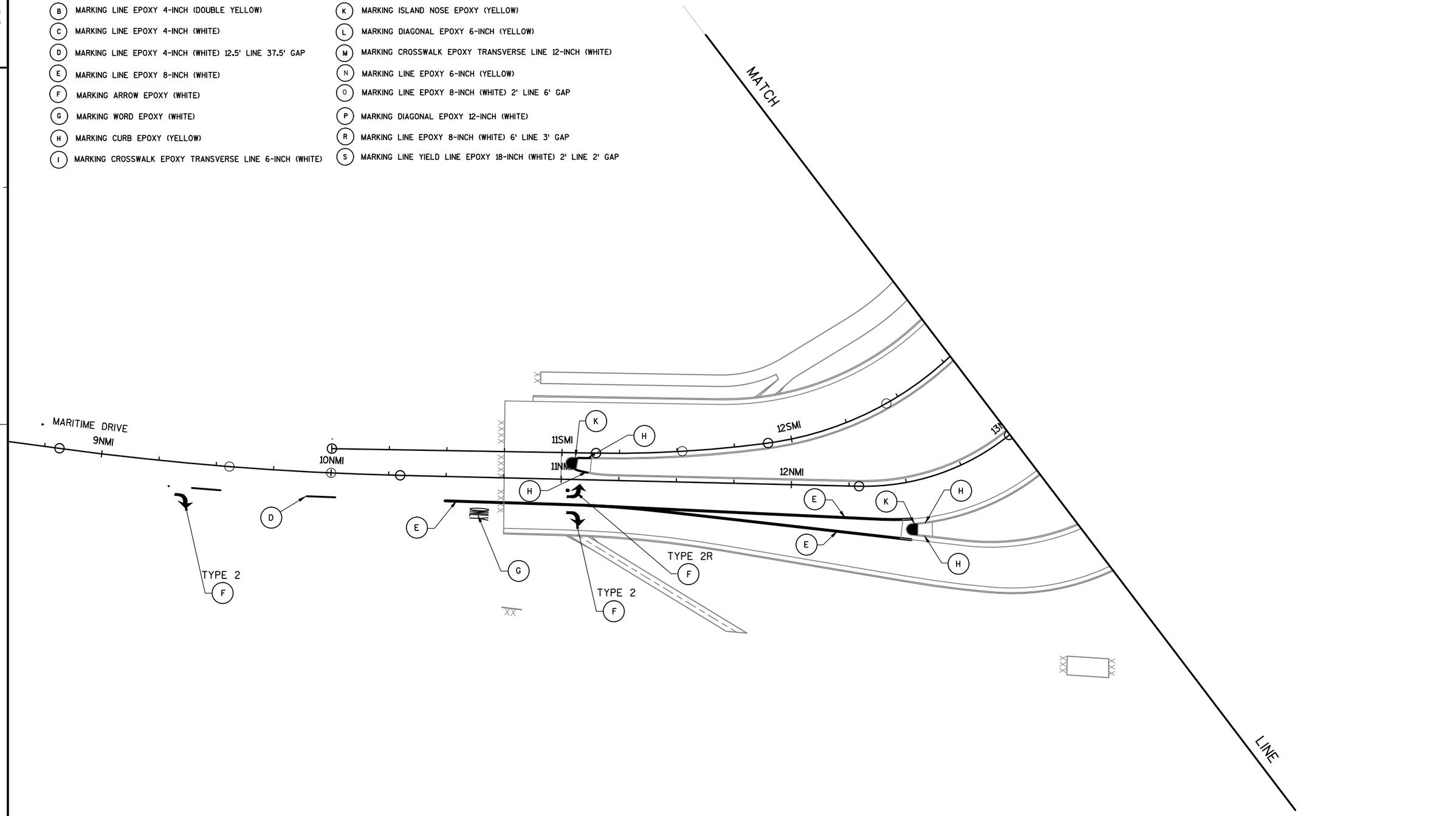
- (O) MARKING LINE EPOXY 8-INCH (WHITE) 2' LINE 6' GAP
- (P) MARKING DIAGONAL EPOXY 12-INCH (WHITE)
- (R) MARKING LINE EPOXY 8-INCH (WHITE) 6' LINE 3' GAP
- (S) MARKING LINE YIELD LINE EPOXY 18-INCH (WHITE) 2' LINE 2' GAP



2

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PAVEMENT MARKING	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_024509 PM.DWG PLOT DATE : 8/16/2017 7:13 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

2

LEGEND

- 16"X16" SIGN FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS ITEM)
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- DIRECTION OF TRAFFIC
- 5" ASPHALTIC SURFACE OVER 12" BASE AGGREGATE DENSE 1 1/4-INCH

WISCONSIN
ANDREW W. BLOCK
E-41224-6
APPLETON
WI.
PROFESSIONAL ENGINEER

Andrew W. Block

7/20/2018

TRAFFIC CONTROL PLANS DESIGNED
BY JT ENGINEERING, INC.

TRAFFIC CONTROL GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGN DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

CONFLICTING TRAFFIC SIGNS SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

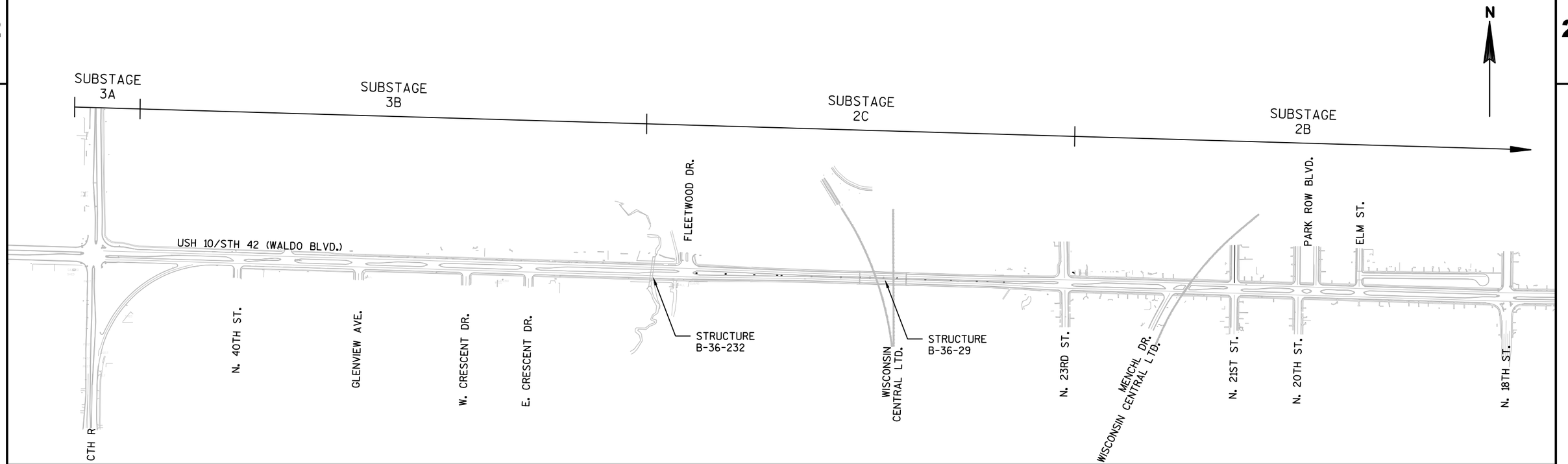
'WO' SIGNS ARE THE SAME AS 'W' SIGNS EXCEPT THE BACKGROUND IS ORANGE.

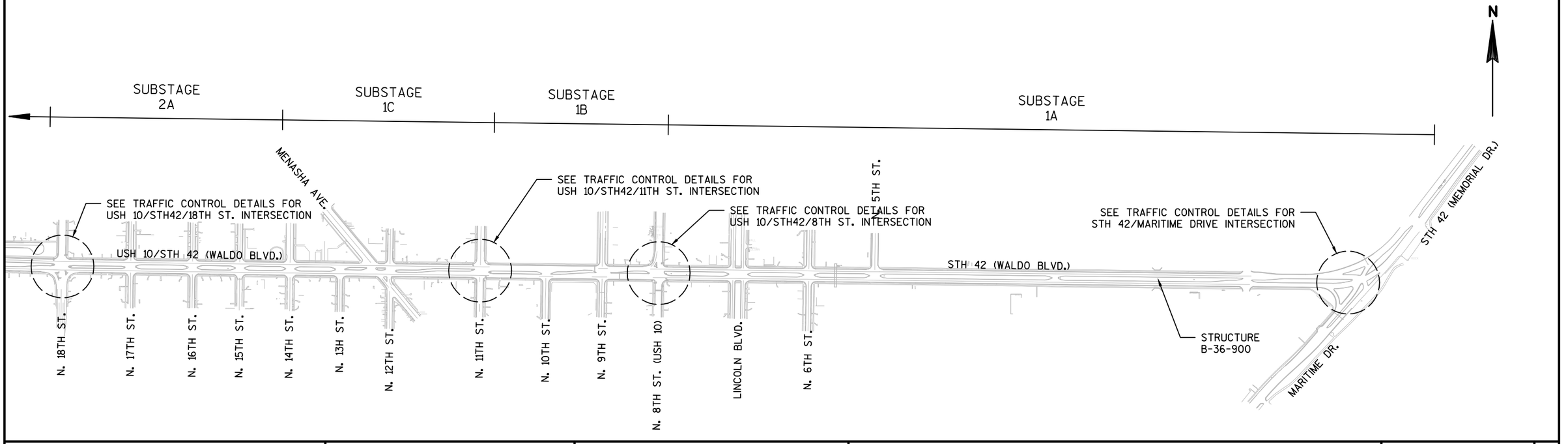
ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED. USE OF SIGNS OTHER THAN 48" X 48" OR AS NOTED SHALL BE APPROVED BY THE ENGINEER.

FOR NIGHTTIME OPERATION, ALL DRUMS IN TAPERS SHALL HAVE A TYPE C STEADY BURN WARNING LIGHT.

ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED, AND EQUIPPED WITH TWO TYPE A (LOW INTENSITY FLASHING) LIGHTS.

WORK AREAS SHOWN ILLUSTRATE GENERAL LOCATIONS OF WORK AND MAY NOT REFLECT ALL WORK REQUIRED.





PROJECT NO: 1500-37/47-71/72, 4570-12-71/72	HWY: USH 10/STH 42	COUNTY: MANITOWOC	TRAFFIC CONTROL OVERVIEW	SHEET 284 E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\TRAFFIC CONTROL\025000_TC_OVERVIEW.DWG
LAYOUT NAME - ****
PLOT DATE : 7/9/2018 7:45 AM
PLOT BY : ANDY BLOCK
PLOT NAME :
PLOT SCALE : 1 IN:550 FT
WISDOT/CADDS SHEET 44

2

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1-A

LEFT LANE CLOSED AHEAD
W20-5S-A

W04-2L

W01-6
48"X24"

LANE CLOSED
R11-2-L
48"X30"

W01-6
48"X24"

ROAD CLOSED
R11-2
48"X30"

TEMPORARY PEDESTRIAN SAFETY FENCE
NOTE: MAINTAIN EXISTING PEDESTRIAN CROSSING UNTIL A TEMPORARY CROSSING IS COMPLETE WITHIN THE CONSTRUCTION ZONE

ROAD CLOSED
R11-2
48"X30"

MARITIME DRIVE

25' (TYP)

25' (TYP)

10' (TYP)

25' (TYP)

700' 700' 350' 245' 120'

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

SEE S.D.D. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY FOR ADDITIONAL DETAILS

MULTI USE PATH

PLACE AT PEDESTRIAN CROSSING

W011-2
30"X30"

W16-7L
24"X12"

PHASE 1 WORK ZONE

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	TRAFFIC CONTROL - STAGE 1A - MARITIME DRIVE PHASE 1	SHEET 285	E

2

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NOTES:
CONSTRUCT STORM SEWER STRUCTURES 172.0, 174.0, 174.9 - 174.13, 180.4 - 180.6, CONNECTING STORM SEWER PIPES, AND THE TEMPORARY STORM SEWER PIPE CONNECTION TO STRUCTURE 172.0 DURING OFF-PEAK CLOSURES OF STH 42/MARITIME DRIVE

COVER PLATES TEMPORARY REQUIRED AT STORM SEWER STRUCTURES 174.0, 174.9, 174.10, AND 180.5

WALDO BOULEVARD

BLDG

ASPHALT

PHASE 1 WORK ZONE

TEMPORARY PEDESTRIAN SAFETY FENCE

MAINTAIN PEDESTRIAN TRAFFIC ON EXISTING SIDEWALK

25' (TYP)

MARITIME DRIVE

MULTI USE PATH

ASPHALTIC CURB

ASPHALTIC SURFACE TEMPORARY

CONNECT EXISTING INLET TO MH-172.0TO MAINTAIN DRAINAGE; 28 LF STORM SEWER PIPE PVC 12-INCH REQD.

LANE CLOSED
R11-2-L
48"X30"

ASPHALTIC SURFACE TEMPORARY CONSTRUCTED PRIOR TO STAGE 1 TRAFFIC SHIFT

TEMPORARY MARKING LINE PAINT 4-INCH (DOUBLE YELLOW)

TEMPORARY MARKING LINE PAINT 4-INCH (WHITE)

25' (TYP)

LANE CLOSED
R11-2-L
48"X30"

ASPHALTIC CURB

ASPHALTIC SURFACE TEMPORARY

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	TRAFFIC CONTROL - STAGE 1A - MARITIME DRIVE PHASE 1	SHEET	E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\TRAFFIC CONTROL\025000_TC 45701271 MARITIME DRIVE STAGEPLOTDATE : 7/9/2018 12:19 PM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1 IN:40 FT
LAYOUT NAME - ****

2

N

ROAD CLOSED
R11-2
48"X30"

W01-6
48"X24"

PHASE 1 WORK ZONE

SEE S.D.D. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY FOR ADDITIONAL DETAILS

120' 245' 350' 700' 700'

25' (TYP)

25' (TYP)

STH 42

STH 42/MEMORIAL DRIVE

TEMPORARY MARKING LINE
PAINT 4-INCH (DOUBLE YELLOW)

TEMPORARY MARKING LINE
PAINT 4-INCH (WHITE)

ASPHALT

CURB

ROCK

ROCK

W01-6
48"X24"

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

MULTI USE PATH

W06-2

W01-4L

25 M.P.H.
W013-1
36"X36"

W01-6
48"X24"

END ROAD WORK
G20-2A
48"X24"

W04-2R

RIGHT LANE CLOSED AHEAD
W20-5-A

ROAD WORK AHEAD
W20-1-A

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	TRAFFIC CONTROL - STAGE 1A - MARITIME DRIVE PHASE 1	SHEET 287	E

2

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1-A

RIGHT LANE CLOSED AHEAD
W20-5-A

W04-2R

W01-6
48"X24"

LANE CLOSED
R11-2-L
48"X30"

MARITIME DRIVE

ASPHALT

BLDG

25'
(TYP)

700' | 700' | 350' | 245'

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

SEE S.D.D. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY FOR ADDITIONAL DETAILS

MULTI USE PATH

TEMPORARY PEDESTRIAN
CURB RAMP REQD

W01-4R

ROAD CLOSED
R11-2
48"X30"

TEMPORARY PEDESTRIAN SAFETY FENCE
NOTE: MAINTAIN EXISTING PEDESTRIAN CROSSING UNTIL A TEMPORARY CROSSING IS COMPLETE WITHIN THE CONSTRUCTION ZONE

PHASE 2 WORK ZONE

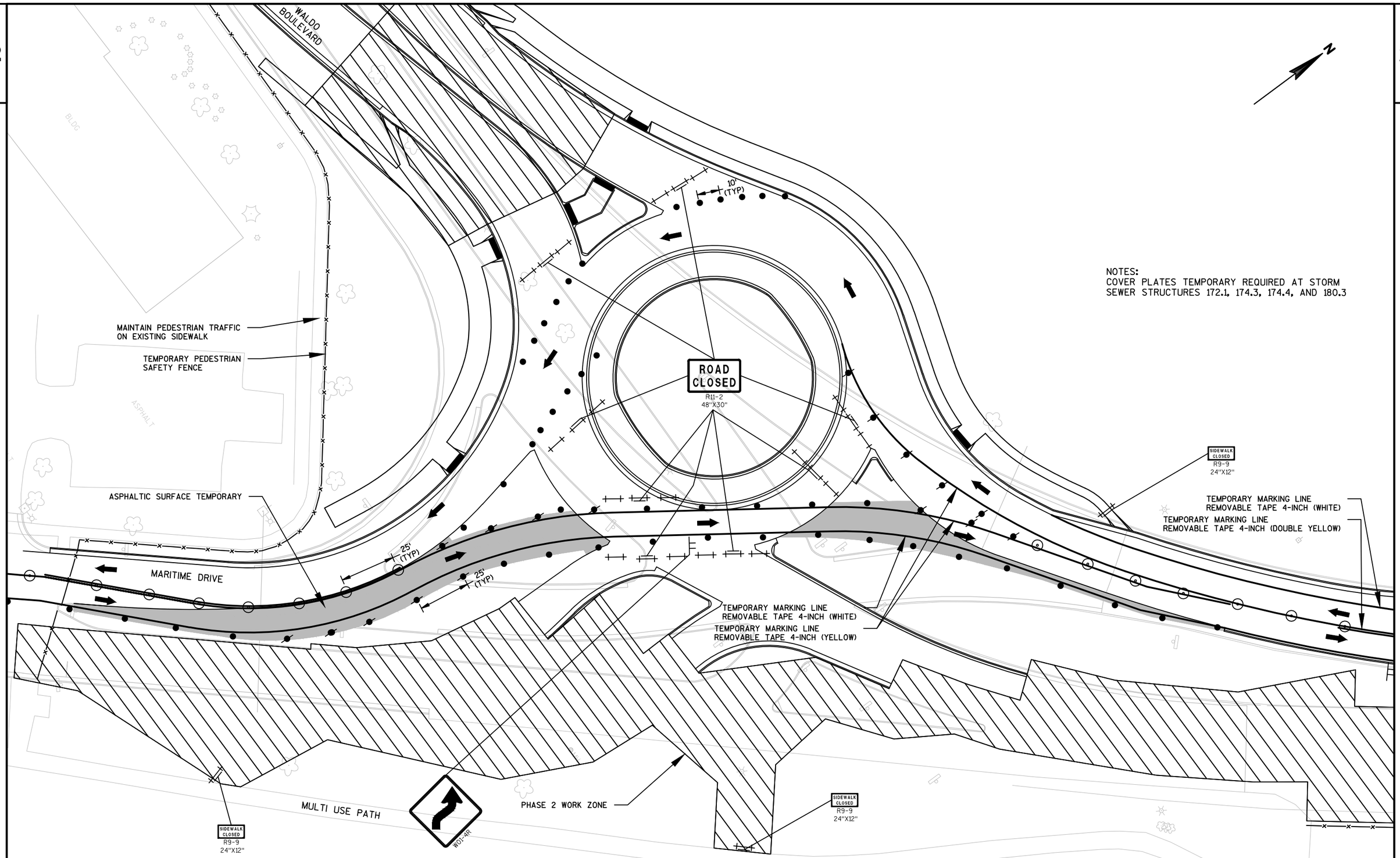
PLACE AT PEDESTRIAN CROSSING

W011-2
30"X30"

W16-7L
24"X12"

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	TRAFFIC CONTROL - STAGE 1A - MARITIME DRIVE PHASE 2	SHEET 288	E

2



NOTES:
COVER PLATES TEMPORARY REQUIRED AT STORM SEWER STRUCTURES 172.1, 174.3, 174.4, AND 180.3

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	TRAFFIC CONTROL - STAGE 1A - MARITIME DRIVE PHASE 2	SHEET 289	E

2

SEE S.D.D. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY FOR ADDITIONAL DETAILS

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

W01-6
48"X24"

R3-2
24"X24"

ASPHALTIC SURFACE TEMPORARY

245'

350'

700'

700'

25'
(TYP)

25'
(TYP)

25'
(TYP)

STH 42

STH 42/MEMORIAL DRIVE

10'
(TYP)

W01-4R

PHASE 2 WORK ZONE

TEMPORARY PEDESTRIAN SAFETY FENCE

ROAD
CLOSED
R11-2
48"X30"

R3-2
24"X24"

ONE
WAY
R6-2-R
24"X30"

W01-6
48"X24"

W06-2

W01-6
48"X24"

END
ROAD WORK
G20-2A
48"X24"

W04-2L

LEFT LANE
CLOSED
AHEAD
W20-5S-A

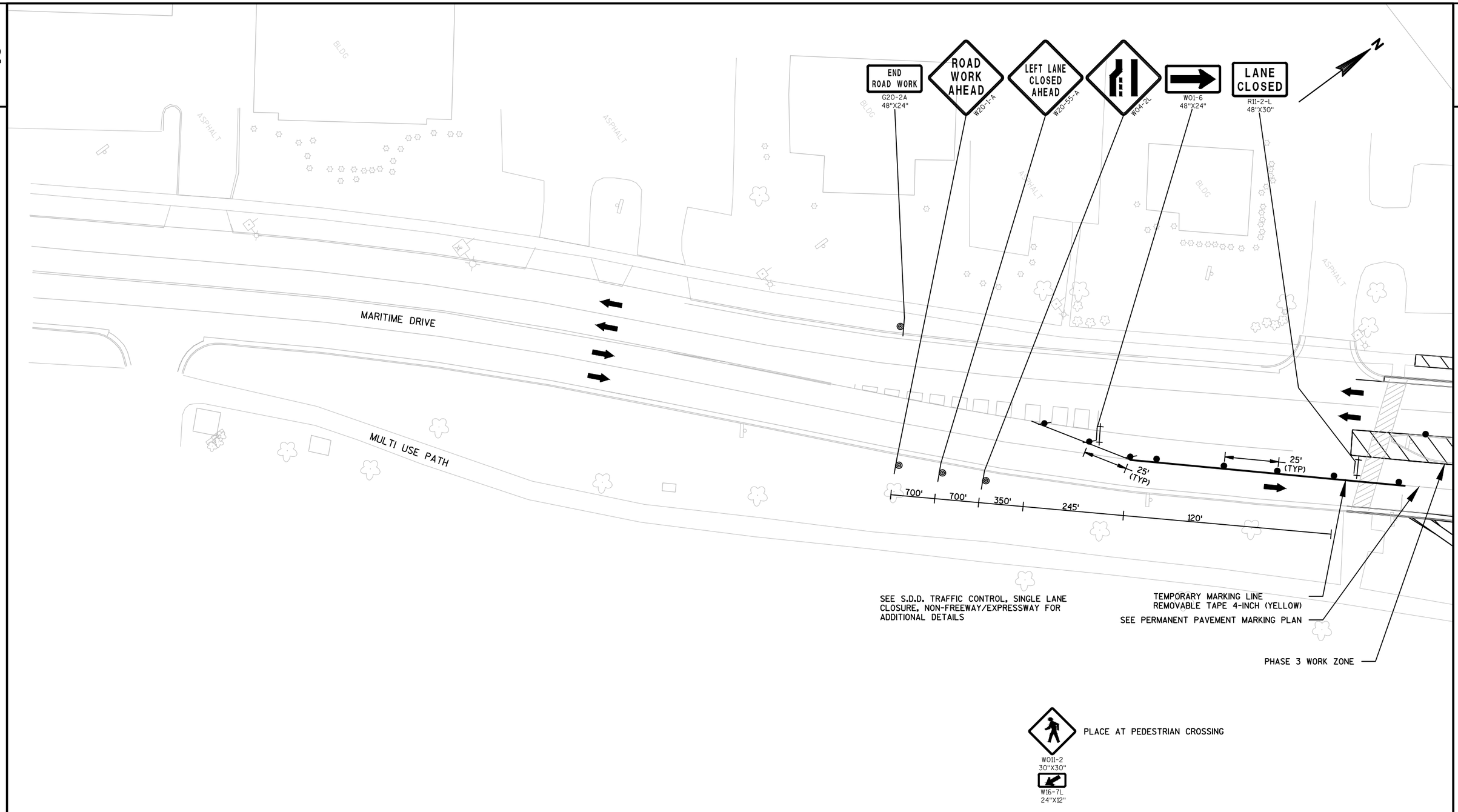
ROAD
WORK
AHEAD
W20-1-A

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	TRAFFIC CONTROL - STAGE 1A - MARITIME DRIVE PHASE 2	SHEET 290	E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\TRAFFIC CONTROL\025000_TC 45701271 MARITIME DRIVE STAGEP2.DWG DATE : 7/9/2018 12:24 PM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1 IN:40 FT
LAYOUT NAME - ****

WISDOT/CADDS SHEET 42

2



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	TRAFFIC CONTROL - STAGE 1A - MARITIME DRIVE PHASE 3	SHEET 291	E

2

WALDO BOULEVARD

SIDEWALK CLOSED
R9-9
24"X12"

PHASE 3 WORK ZONE

10' (TYP)

ROAD CLOSED
R11-2
48"X30"

UTILIZE A FLAGGING OPERATION AS NEEDED TO PLACE CONCRETE CURB & GUTTER ALONG SMI ALIGNMENT

MAINTAIN PEDESTRIAN ACCOMMODATIONS ON EXISTING SIDEWALK AND CROSSING UNTIL AN ALTERNATE CROSSING OF MARITIME DRIVE AND STH 42 IS ACCESSIBLE

SIDEWALK CLOSED
R9-9
24"X12"

LANE CLOSED
R11-2-L
48"X30"

SIDEWALK CLOSED
R9-9
24"X12"

MARITIME DRIVE

25' (TYP)

25' (TYP)

LANE CLOSED
R11-2-L
48"X30"

SIDEWALK CLOSED
R9-9
24"X12"

SIDEWALK CLOSED
R9-9
24"X12"

LANE CLOSED
R11-2-L
48"X30"

XXXX XXXX

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	TRAFFIC CONTROL - STAGE 1A - MARITIME DRIVE PHASE 3	SHEET 292	E

2

SEE S.D.D. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY FOR ADDITIONAL DETAILS

TEMPORARY PAVEMENT MARKINGS PLACED FOR PHASE 2

PHASE 3 WORK ZONE

245' 350' 700' 700'

25' (TYP)

25' (TYP)

STH 42

STH 42/MEMORIAL DRIVE

XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX XXXX

ASPHALT

ROCK

ROCK

ONE WAY
R6-2-R
24"X30"

R3-2
24"X24"

R3-2
24"X24"

LANE CLOSED
R11-2-L
48"X30"

W01-6
48"X24"

END ROAD WORK
G20-2A
48"X24"

W04-2L

LEFT LANE CLOSED AHEAD
W20-5S-A

ROAD WORK AHEAD
W20-1-A

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	TRAFFIC CONTROL - STAGE 1A - MARITIME DRIVE PHASE 3	SHEET 293	E

2

2

9TH ST.

8TH ST.

N

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1-A

LEFT LANE CLOSED AHEAD
W20-5S-A

W04-2L

W01-6
48"X24"

LANE CLOSED
R11-2-L
48"X30"

W01-6
48"X24"

SIDEWALK CLOSED
CROSS HERE
R9-11-A
48"X24"

END ROAD WORK
G20-2A
48"X24"

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)
(125' TAPER)

25'
(TYP)

STOP
R1-1
30"X30"

W25-1

200' 300' 100' 200'

USH 10/WALDO BLVD.

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

STH 42/WALDO BLVD.

25'
(TYP)

TEMPORARY MARKING LINE
REMOVEABLE TAPE 4-INCH (WHITE)

W01-6
48"X24"

LANE CLOSED
R11-2-L
48"X30"

R3-1
24"X24"

STAGE 1A WORK ZONE

TEMPORARY PEDESTRIAN
SAFETY FENCE

NOTE: EXISTING TRAFFIC SIGNALS AT WALDO BLVD./8TH STREET SHALL BE OPERATIONAL DURING STAGE 1A.

LANE CLOSED
R11-2-L
48"X30"

W01-6
48"X24"

ROAD CLOSED AHEAD
W20-3-A

ROAD CLOSED 1000 FT
W20-3-C

RIGHT LANE CLOSED AHEAD
W20-5-A

ROAD CLOSED 500 FT
W20-3-D

W04-2R

W04-2R

RIGHT LANE CLOSED AHEAD
W20-5-A

ROAD WORK AHEAD
W20-1-A

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)
(125' TAPER)

END ROAD WORK
G20-2A
48"X24"

SEE S.D.D. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY AND BARRICADES AND SIGNS FOR MAINLINE CLOSURES FOR ADDITIONAL DETAILS

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	TRAFFIC CONTROL - STAGE 1A - 8TH STREET	SHEET 294 E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\TRAFFIC CONTROL\025000_TC 15003771 8TH STAGE 1A.DWG PLOT DATE : 8/30/2018 3:03 PM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1 IN:40 FT
LAYOUT NAME - ****

WISDOT/CADDS SHEET 42

2

9TH ST.

8TH ST.

ROAD CLOSED AHEAD
W20-3-A

ROAD CLOSED 1000 FT
W20-3-C

ROAD CLOSED 500 FT
W20-3-D

END ROAD WORK
G20-2A
48"X24"

PLACE TEMPORARY CURB RAMPS, PEDESTRIAN CROSSING, AND SIGNING OUTSIDE OF CONSTRUCTION LIMITS ON 8TH STREET NORTH OF USH 10

W011-2
30"X30"

W16-7L
24"X12"

DO NOT ENTER
R5-1
30"X30"

SIDEWALK CLOSED
R9-9
24"X12"

PLACE R9-11 SIGN AND BARRICADE AT TEMPORARY PEDESTRIAN CROSSING OUTSIDE OF CONSTRUCTION LIMITS ON 8TH STREET NORTH OF USH 10

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11
48"X24"

SIDEWALK CLOSED
CROSS HERE
R9-11-A
48"X24"

LANE CLOSED
R11-2-L
48"X30"

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

PLACE BARRICADES AT 8TH STREET/ OAK STREET INTERSECTION

STOP
R1-1
30"X30"
CROSS TRAFFIC DOES NOT STOP
W4-4P
24"X12"

R3-2
24"X24"

W021

25' (TYP)

N

2

USH 10/WALDO BLVD.

STH 42/WALDO BLVD.

STAGE 1B WORK ZONE

TEMPORARY PEDESTRIAN SAFETY FENCE

W021

R3-1
24"X24"

STOP
R1-1
30"X30"
CROSS TRAFFIC DOES NOT STOP
W4-4P
24"X12"

SIDEWALK CLOSED
R9-9
24"X12"

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

LANE CLOSED
R11-2-L
48"X30"

STAGE 1A WORK ZONE

TEMPORARY PEDESTRIAN SAFETY FENCE

W011-2
30"X30"

W16-7L
24"X12"

PLACE TEMPORARY CURB RAMPS, PEDESTRIAN CROSSING, AND SIGNING OUTSIDE OF CONSTRUCTION LIMITS ON 8TH STREET SOUTH OF USH 10

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW) (125' TAPER)

W04-2L

LEFT LANE CLOSED AHEAD
W20-5S-A

ROAD WORK AHEAD
W20-1-A

SEE S.D.D. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY FOR ADDITIONAL DETAILS

PLACE R9-11 SIGN AND BARRICADE AT TEMPORARY PEDESTRIAN CROSSING OUTSIDE OF CONSTRUCTION LIMITS ON 8TH STREET SOUTH OF USH 10

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11
48"X24"

W01-6
48"X24"

ASPHALT OVER CONCRETE

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	TRAFFIC CONTROL - STAGE 1A & 1B - 8TH STREET (SHT 1 OF 2)	SHEET 295 E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\TRAFFIC CONTROL\025000_TC 15003771 8TH STAGE 1AB 1OF2.DWG LAYOUT NAME - ****

PLOT DATE : 8/24/2018 7:59 AM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

9TH ST.

ROAD CLOSED AHEAD W20-3-A

ROAD CLOSED 1000 FT W20-3-C

ROAD CLOSED 500 FT W20-3-D

25' (TYP)

8TH ST.

END ROAD WORK G20-2A 48"X24"

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)
(100' SHIFTING TAPER)

SIDEWALK CLOSED CROSS HERE R9-11-A 48"X24"

PLACE R9-11-A SIGN AND BARRICADE AT TEMPORARY PEDESTRIAN CROSSING OUTSIDE OF CONSTRUCTION LIMITS ON 8TH STREET NORTH OF USH 10

N

W01-6 48"X24" AND LANE CLOSED R11-2-L 48"X30"

W011-2 30"X30"

W16-7L 24"X12"

PLACE TEMPORARY CURB RAMPS, PEDESTRIAN CROSSING, AND SIGNING OUTSIDE OF CONSTRUCTION LIMITS ON 8TH STREET NORTH OF USH 10

DO NOT ENTER R5-1 30"X30"

LANE CLOSED R11-2-L 48"X30"

PLACE BARRICADES AT 8TH STREET/ OAK STREET INTERSECTION

ROAD CLOSED TO THRU TRAFFIC R11-4 60"X30"

SIDEWALK CLOSED CROSS HERE R9-11-A 48"X24"

STOP R1-1 30"X30"

CROSS TRAFFIC DOES NOT STOP W4-4P 24"X12"

R3-2 24"X24"

W004-1

USH 10/WALDO BLVD.

STH 42/WALDO BLVD.

STAGE 1B WORK ZONE

TEMPORARY PEDESTRIAN SAFETY FENCE

W004-1

R3-1 24"X24"

STOP R1-1 30"X30"

CROSS TRAFFIC DOES NOT STOP W4-4P 24"X12"

TEMPORARY CURB RAMP REQD.

SIDEWALK CLOSED R9-9 24"X12"

25' (TYP)

ROAD CLOSED TO THRU TRAFFIC R11-4 60"X30"

LANE CLOSED R11-2-L 48"X30"

SIDEWALK CLOSED AHEAD CROSS HERE R9-11 48"X24"

PLACE R9-11 SIGN AND BARRICADE AT TEMPORARY PEDESTRIAN CROSSING OUTSIDE OF CONSTRUCTION LIMITS ON 8TH STREET SOUTH OF USH 10

STAGE 1A WORK ZONE

TEMPORARY PEDESTRIAN SAFETY FENCE

W011-2 30"X30"

W16-7L 24"X12"

PLACE TEMPORARY CURB RAMPS, PEDESTRIAN CROSSING, AND SIGNING OUTSIDE OF CONSTRUCTION LIMITS ON 8TH STREET SOUTH OF USH 10

W004-2R

RIGHT LANE CLOSED AHEAD W20-5-A

ROAD WORK AHEAD W20-1-A

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (WHITE)

W01-6 48"X24"

END ROAD WORK G20-2A 48"X24"

SEE S.D.D. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY FOR ADDITIONAL DETAILS

ASPHALT OVER CONCRETE

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	TRAFFIC CONTROL - STAGE 1A & 1B - 8TH STREET (SHT 2 OF 2)	SHEET 296 E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\TRAFFIC CONTROL\025000_TC 15003771 8TH STAGE 1AB 2OF2.DWG LAYOUT NAME - ****
PLOT DATE : 8/24/2018 8:11 AM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

SEE S.D.D. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY FOR ADDITIONAL DETAILS

ROAD WORK AHEAD
W20-1A

RIGHT LANE CLOSED AHEAD
W20-5A

W04-2R

11TH ST.

25' (TYP)

TEMPORARY MARKING LINE
REMOVABLE TAPE 4-INCH (YELLOW)
(125' TAPER)

W01-6
48"X24"

W011-2
30"X30"

W16-7L
24"X12"

PLACE TEMPORARY CURB RAMPS, PEDESTRIAN CROSSING, AND SIGNING OUTSIDE OF CONSTRUCTION LIMITS ON 11TH STREET NORTH OF USH 10

PLACE R9-11 AND BARRICADE AT TEMPORARY PEDESTRIAN CROSSING OUTSIDE OF CONSTRUCTION LIMITS ON 11TH STREET NORTH OF USH 10

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11
48"X24"

LANE CLOSED
R11-2-L
48"X30"

SIDEWALK CLOSED
R9-9
24"X12"

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11
48"X24"

ROAD CLOSED
R11-2
48"X30"

PLACE BARRICADES AT USH 10/ 10TH STREET INTERSECTION

USH 10/WALDO BLVD.

N

STAGE 1C WORK ZONE

TEMPORARY PEDESTRIAN SAFETY FENCE

W04-4L

R3-2
24"X24"

STOP
R1-1
30"X30"

CROSS TRAFFIC DOES NOT STOP
W4-4P
24"X12"

PLACE R9-11 AND BARRICADE AT TEMPORARY PEDESTRIAN CROSSING OUTSIDE OF CONSTRUCTION LIMITS ON 11TH STREET SOUTH OF USH 10

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11
48"X24"

25' (TYP)

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

SIDEWALK CLOSED
R9-9
24"X12"

END ROAD WORK
G20-2A
48"X24"

PLACE TEMPORARY CURB RAMPS, PEDESTRIAN CROSSING, AND SIGNING OUTSIDE OF CONSTRUCTION LIMITS ON 11TH STREET SOUTH OF USH 10

W011-2
30"X30"

W16-7L
24"X12"

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	TRAFFIC CONTROL - STAGE 1C - 11TH STREET (SHT 1 OF 2)	SHEET 297 E

2

N

ROAD WORK AHEAD
W20-1-A

11TH ST.

CONCRETE

10' (TYP)

PLACE TEMPORARY CURB RAMPS, PEDESTRIAN CROSSING, AND SIGNING OUTSIDE OF CONSTRUCTION LIMITS ON 18TH STREET NORTH OF USH 10

W011-2
30"X30"

W16-7L
24"X12"

W01-6
48"X24"

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11
48"X24"

PLACE R9-11 AND BARRICADE AT TEMPORARY PEDESTRIAN CROSSING OUTSIDE OF CONSTRUCTION LIMITS ON 11TH STREET NORTH OF USH 10

LANE CLOSED
R11-2-L
48"X30"

SIDEWALK CLOSED
R9-9
24"X12"

SIDEWALK CLOSED
R9-9
24"X12"

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11
48"X24"

PLACE BARRICADE AT USH 10/ 9TH STREET INTERSECTION

ROAD CLOSED
R11-2
48"X30"

PLACE BARRICADE AT USH 10/ 10TH STREET INTERSECTION

USH 10/WALDO BLVD.

STAGE 1C WORK ZONE

TEMPORARY PEDESTRIAN SAFETY FENCE

W021-1

R3-2
24"X24"

STOP
R1-1
30"X30"

CROSS TRAFFIC DOES NOT STOP
W4-4P
24"X12"

TEMPORARY PEDESTRIAN CURB RAMP REQD

25' (TYP)

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

PLACE TEMPORARY CURB RAMPS, PEDESTRIAN CROSSING, AND SIGNING OUTSIDE OF CONSTRUCTION LIMITS ON 18TH STREET SOUTH OF USH 10

W011-2
30"X30"

W16-7L
24"X12"

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11
48"X24"

PLACE R9-11 AND BARRICADE AT TEMPORARY PEDESTRIAN CROSSING OUTSIDE OF CONSTRUCTION LIMITS ON 11TH STREET SOUTH OF USH 10

END ROAD WORK
G20-2A
48"X24"

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	TRAFFIC CONTROL - STAGE 1C - 11TH STREET (SHT 2 OF 2)	SHEET 298 E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\TRAFFIC CONTROL\025000_TC 15003771 11TH STAGE 1C 2OF2.DWG LAYOUT NAME - ****
PLOT DATE : 8/24/2018 8:31 AM
PLOT BY : ANDY BLOCK
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

CLERMONT ST.

USH 10/WALDO BLVD.

200' 300' 100' 200'

ROAD CLOSED AHEAD W20-3-A

ROAD CLOSED 1000 FT W20-3-C

ROAD CLOSED 500 FT W20-3-D

ROAD CLOSED TO THRU TRAFFIC R11-4 60"X30"

W01-6 48"X24"

SEE S.D.D. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.

PLACE BARRICADES AND SIGN IMMEDIATELY NORTH OF BELMONT ST.

ROAD CLOSED TO THRU TRAFFIC R11-4 60"X30"

STOP R1-1 30"X30"

25' (TYP)

18TH ST.

END ROAD WORK G20-2A 48"X24"

DO NOT ENTER R5-1 30"X30"

W011-2 30"X30"

W16-7L 24"X12"

PLACE TEMPORARY CURB RAMPS, PEDESTRIAN CROSSING, AND SIGNING OUTSIDE OF CONSTRUCTION LIMITS ON 18TH STREET NORTH OF USH 10

SIDEWALK CLOSED AHEAD CROSS HERE R9-11 48"X24"

PLACE R9-11 SIGN AND BARRICADE AT TEMPORARY PEDESTRIAN CROSSING OUTSIDE OF CONSTRUCTION LIMITS ON 18TH STREET NORTH OF USH 10

TEMPORARY MARKING LINE REMOVEABLE TAPE 4-INCH (WHITE) (165' TAPER)

SIDEWALK CLOSED R9-9 24"X12"

STOP R1-1 30"X30"

R3-2 24"X24"

W03-1

N

ROAD CLOSED AHEAD W20-3-A

ROAD CLOSED 1000 FT W20-3-C

RIGHT LANE CLOSED AHEAD W20-5-A

ROAD CLOSED 500 FT W20-3-D

W04-2R

TEMPORARY MARKING LINE REMOVEABLE TAPE 4-INCH (WHITE) (125' TAPER)

W01-6 48"X24"

W03-1

LANE CLOSED R11-2-L 48"X30"

R3-1 24"X24"

LANE CLOSED R11-2-L 48"X30"

10' (TYP)

STAGE 2A WORK ZONE

TEMPORARY PEDESTRIAN SAFETY FENCE

STOP R1-1 30"X30"

LANE CLOSED R11-2-L 48"X30"

PLACE TEMPORARY CURB RAMPS, PEDESTRIAN CROSSING, AND SIGNING OUTSIDE OF CONSTRUCTION LIMITS ON 18TH STREET SOUTH OF USH 10

W011-2 30"X30"

W16-7R 24"X12"

SIDEWALK CLOSED AHEAD CROSS HERE R9-11 48"X24"

PLACE R9-11 SIGN AND BARRICADE AT TEMPORARY PEDESTRIAN CROSSING OUTSIDE OF CONSTRUCTION LIMITS ON 18TH STREET SOUTH OF USH 10

W03-1

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW & WHITE) (165' TAPER AND 55' BUFFER DISTANCE)

LANE CLOSED R11-2-L 48"X30"

W01-6 48"X24"

SEE S.D.D. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY AND BARRICADES AND SIGNS FOR MAINLINE CLOSURES FOR ADDITIONAL DETAILS FOR OUTSIDE LANE CLOSURE PRIOR TO SHIFTING TAPER

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	TRAFFIC CONTROL - STAGE 2A - 18TH STREET (SHT 1 OF 2)	SHEET 299 E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\TRAFFIC CONTROL\025000_TC 15003771 18TH STAGE 2A 1OF2.DWG LAYOUT NAME - ****

PLOT DATE : 8/30/2018 3:07 PM PLOT BY : ANDY BLOCK PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

CLERMONT ST.

USH 10/WALDO BLVD.

18TH ST.

ROAD CLOSED AHEAD
W20-3-A

ROAD CLOSED 1000 FT
W20-3-C

ROAD CLOSED 500 FT
W20-3-D

SEE S.D.D. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.

PLACE BARRICADES AND SIGN IMMEDIATELY NORTH OF BELMONT ST.

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

PLACE R9-11-A SIGN AND BARRICADE AT TEMPORARY PEDESTRIAN CROSSING OUTSIDE OF CONSTRUCTION LIMITS ON 18TH STREET SOUTH OF USH 10

SIDEWALK CLOSED
CROSS HERE
R9-11-A
48"X24"

LANE CLOSED
R11-2-L
48"X30"

END ROAD WORK
G20-2A
48"X24"

DO NOT ENTER
R5-1
30"X30"

W011-2
30"X30"

W16-7L
24"X12"

PLACE TEMPORARY CURB RAMPS, PEDESTRIAN CROSSING, AND SIGNING OUTSIDE OF CONSTRUCTION LIMITS ON 18TH STREET NORTH OF USH 10

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

SIDEWALK CLOSED
CROSS HERE
R9-11-A
48"X24"

STOP
R1-1
30"X30"

R3-2
24"X24"

W03-1

N

ROAD CLOSED AHEAD
W20-3-A

ROAD CLOSED 1000 FT
W20-3-C

ROAD CLOSED 500 FT
W20-3-D

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

SEE S.D.D. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.

PLACE BARRICADES AND SIGN AT USH10/ELM ST. INTERSECTION.

ROAD CLOSED
R11-2
48"X30"

R3-2
24"X24"

LANE CLOSED
R11-2-L
48"X30"

PLACE R9-11 SIGN AND BARRICADE AT TEMPORARY PEDESTRIAN CROSSING OUTSIDE OF CONSTRUCTION LIMITS ON 18TH STREET SOUTH OF USH 10

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11
48"X24"

W01-6
48"X24"

TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH (YELLOW) (125' TAPER)

LANE CLOSED
R11-2-L
48"X30"

25' (TYP)

25' (TYP)

TEMPORARY PEDESTRIAN CURB RAMP REQD

STAGE 2A WORK ZONE

TEMPORARY PEDESTRIAN SAFETY FENCE

W011-2
30"X30"

W16-7L
24"X12"

PLACE TEMPORARY CURB RAMPS, PEDESTRIAN CROSSING, AND SIGNING OUTSIDE OF CONSTRUCTION LIMITS ON 18TH STREET SOUTH OF USH 10

W04-2L

LEFT LANE CLOSED AHEAD
W20-5S-A

ROAD WORK AHEAD
W20-1-A

SEE S.D.D. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY FOR ADDITIONAL DETAILS

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	TRAFFIC CONTROL - STAGE 2A - 18TH STREET (SHT 2 OF 2)	SHEET 300 E

FILE NAME : X:\PROJECTS\MANITOWOC\1500-37-00_4570-12-00\DESIGN\C3D\SHEETSPLAN\TRAFFIC CONTROL\025000_TC 15003771 18TH STAGE 2A 2OF2.DWG LAYOUT NAME - ****
PLOT DATE : 8/24/2018 8:53 AM
PLOT BY : ANDY BLOCK
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

(X) SIGN NUMBER. REFER TO MISCELLANEOUS QUANTITY SHEET

(X) PCMS PORTABLE CHANGEABLE MESSAGE SIGN

POST MOUNTED SIGN

N

DETAIL #1 SEE SHEET 2 OF 4

DETAIL #2 SEE SHEET 2 OF 4

DETAIL #3 SEE SHEET 3 OF 4

DETAIL #4 SEE SHEET 3 OF 4

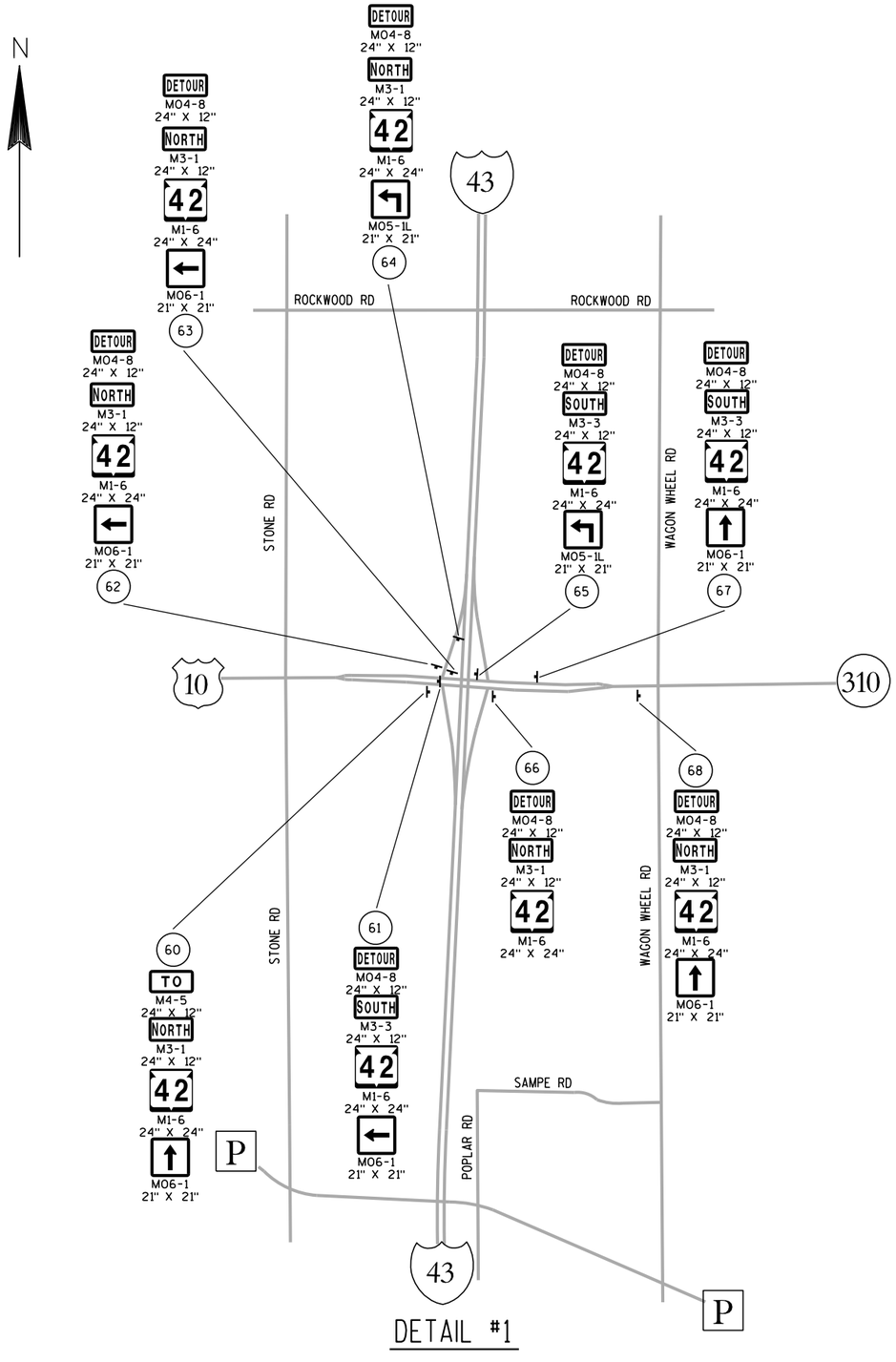
WORK ZONE

(SEE SHEET 4 OF 4) MATCH LINE

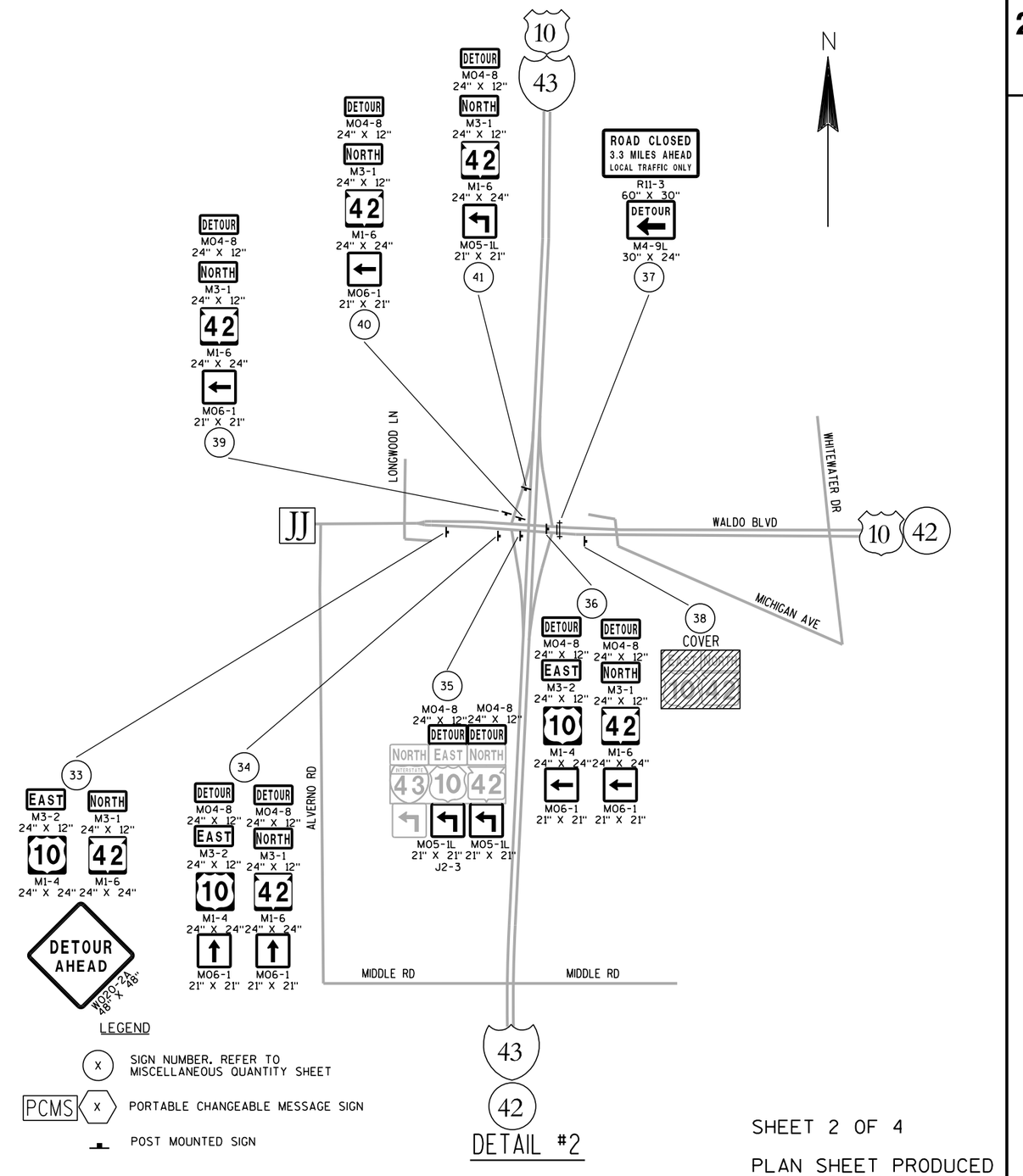
SHEET 1 OF 4

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1500-37/47-71, 4570-12-71	HWY: USH 10/STH 42	COUNTY: MANITOWOC	DETOUR SIGNING DETAIL	SHEET 301 E



DETAIL #1

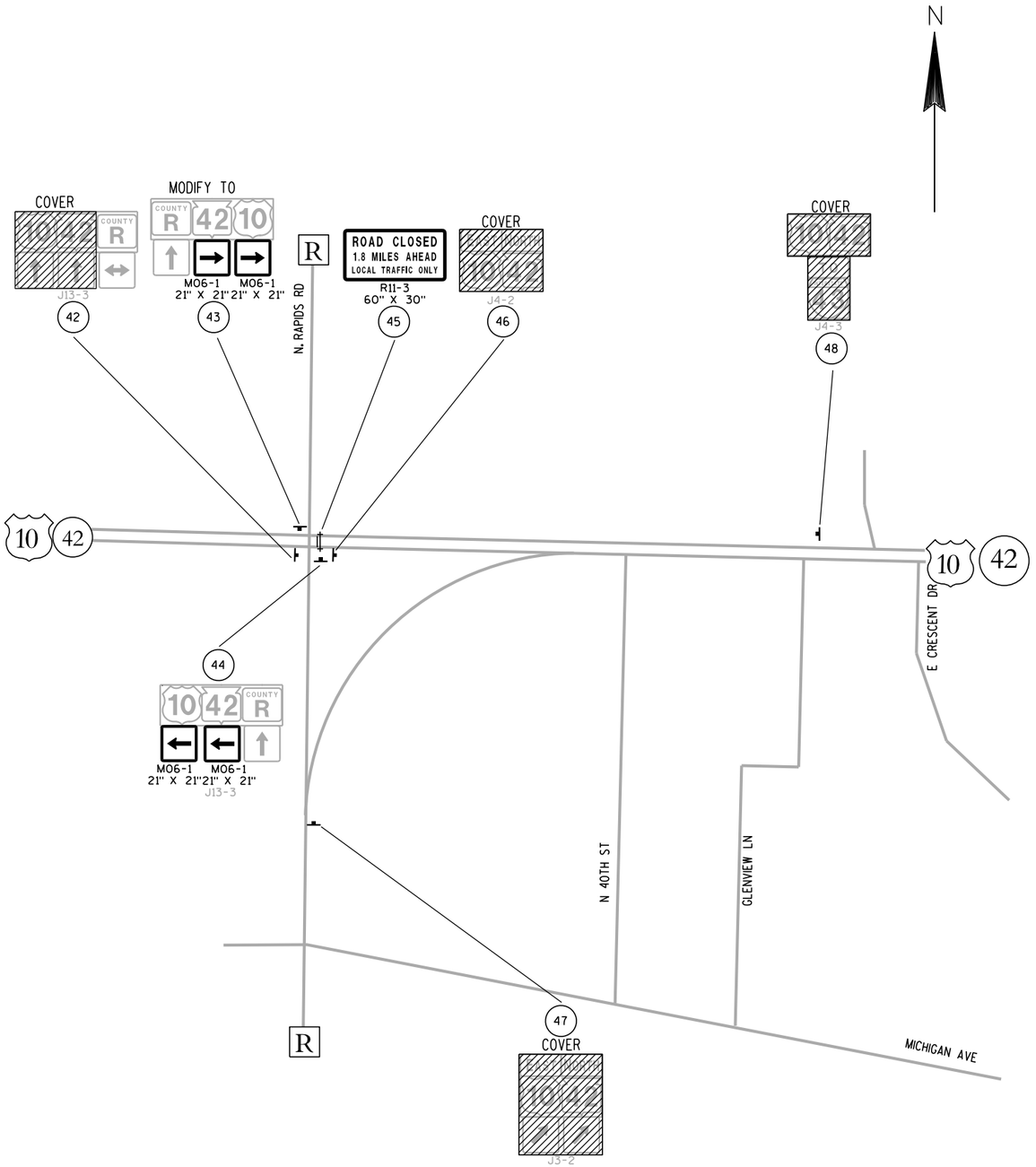


DETAIL #2

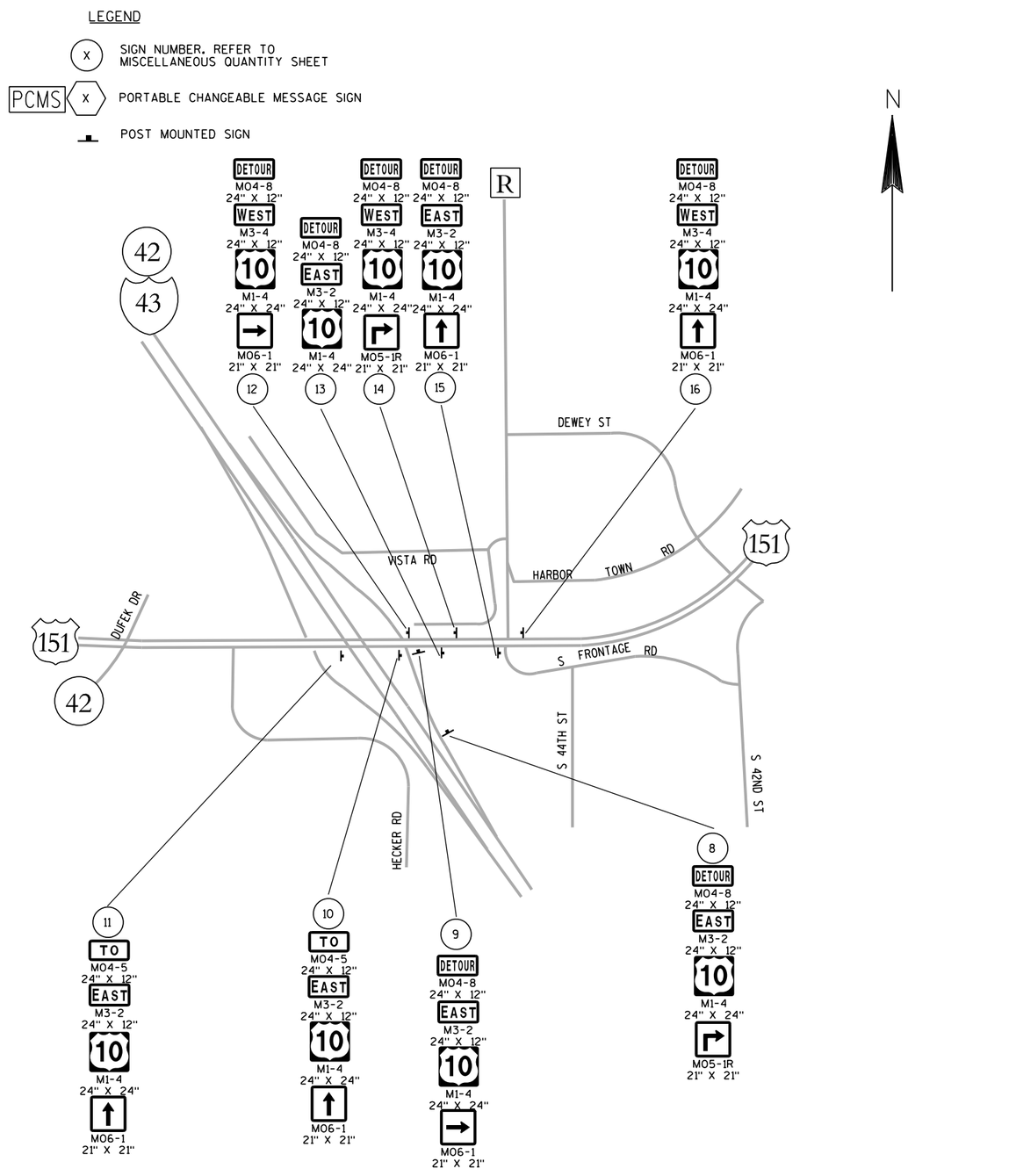
SHEET 2 OF 4

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1500-37/47-71, 4570-12-71	HWY: USH 10/STH 42	COUNTY: MANITOWOC	DETOUR SIGNING DETAIL	SHEET 302	E



DETAIL #3

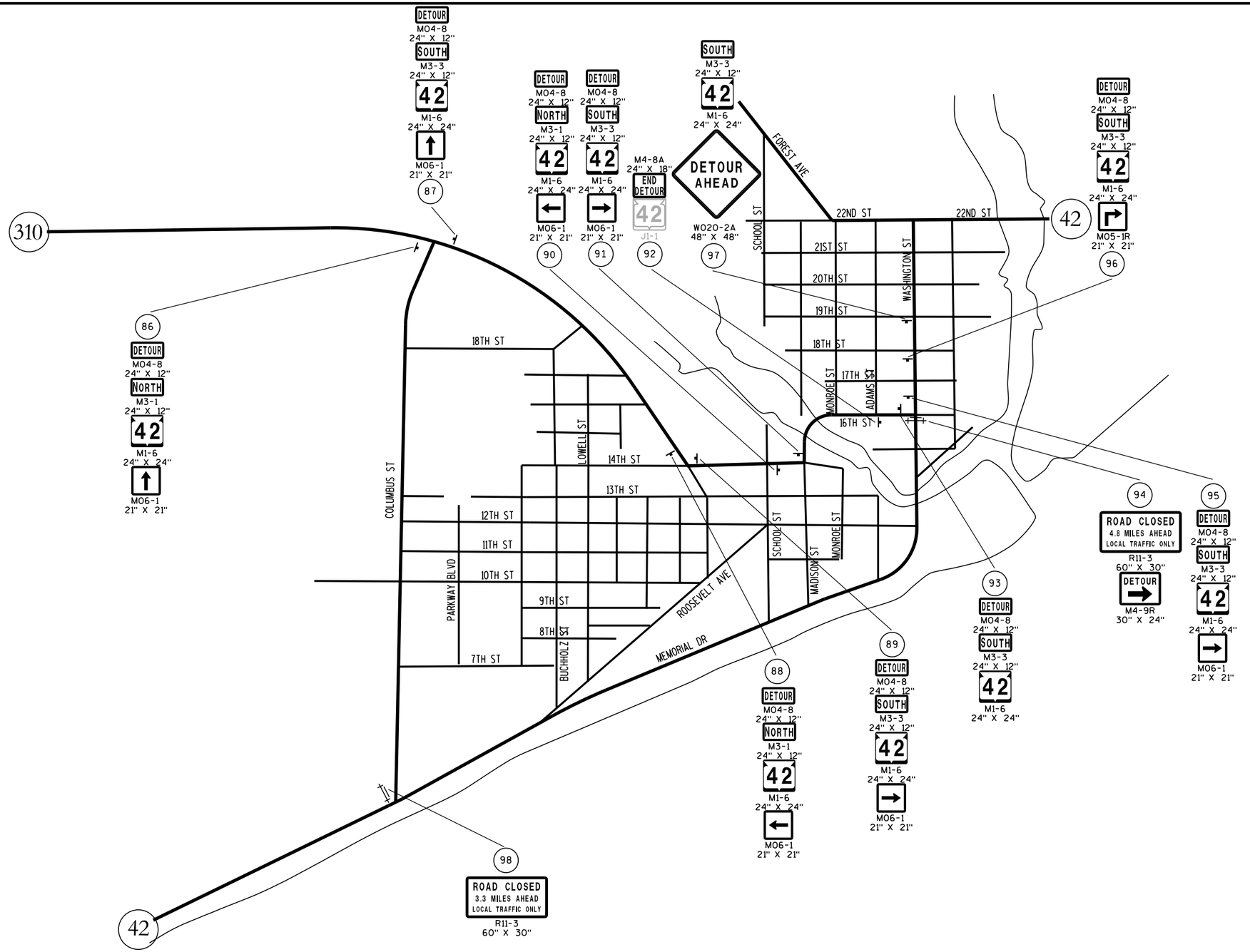


DETAIL #4

SHEET 3 OF 4

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1500-34-71	HWY: USH 10/STH 42	COUNTY: MANITOWOC	DETOUR SIGNING DETAIL	SHEET 303	E



LEGEND

(X) SIGN NUMBER. REFER TO MISCELLANEOUS QUANTITY SHEET

SIGN MOUNTED ON TYPE III BARRICADE

POST MOUNTED SIGN

SHEET 4 OF 4

PLAN SHEET PRODUCED BY WisDOT-NE REGION

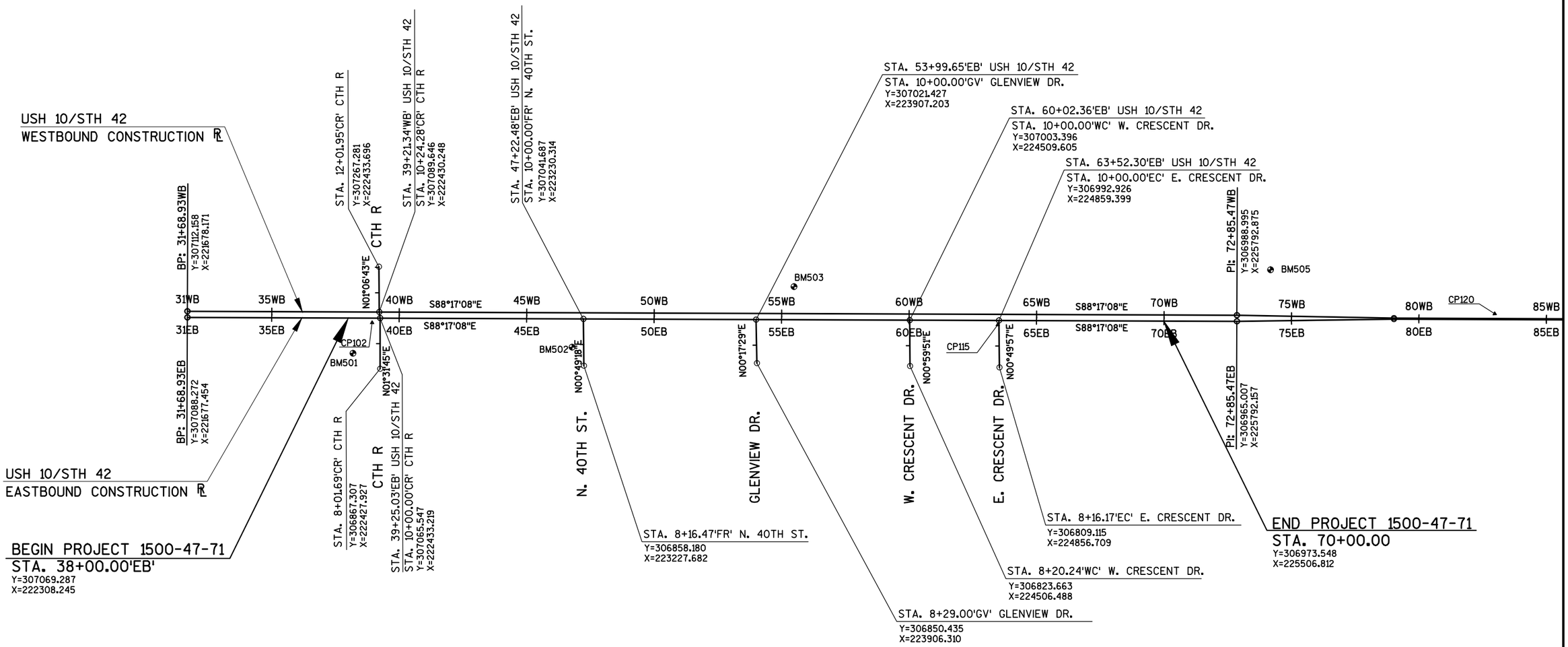
PROJECT NO: 1500-37/47-71, 4570-12-71	HWY: USH 10/STH 42	COUNTY: MANITOWOC	DETOUR SIGNING DETAIL	SHEET 304	E

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
501	38+19EB	TOP NE COR CONC PORCG-138' RT	660.39
502	46+48EB	TOP NE COR CONC PORCH-111' RT	655.83
503	55+48EB	TOP SE COR CONC PORCH-129' LT	655.22
505	74+20EB	CHIS BOX SE COR PAD-200' LT	647.34

PROJECT CONTROL

POINT NUMBER	STATION	OFFSET	Y	X	DESCRIPTION
CP102	38+94.06EB	18.06' RT	307048.419	222401.726	PK NAIL IN PAINTED PANEL
CP115	63+48.27EB	16.42' RT	306976.635	224854.878	PK NAIL IN PAINTED PANEL
CP120	82+97.04EB	22.94' LT	306968.318	226804.187	PK NAIL IN PAINTED PANEL



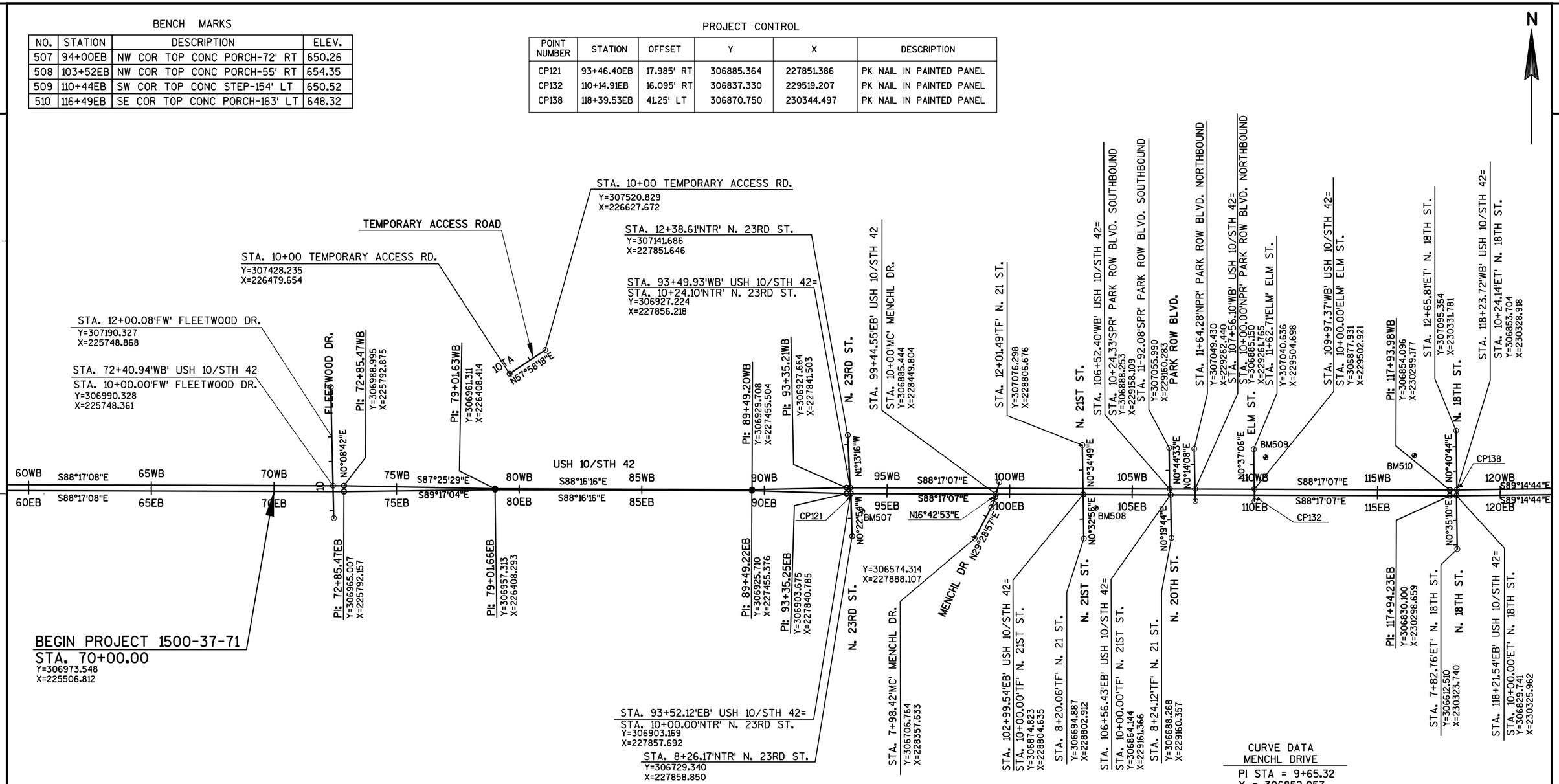
PROJECT NO: 1500-47-71	HWY: USH 10	COUNTY: MANITOWOC	ALIGNMENT DIAGRAM	SHEET 305	E

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
507	94+00EB	NW COR TOP CONC PORCH-72' RT	650.26
508	103+52EB	NW COR TOP CONC PORCH-55' RT	654.35
509	110+44EB	SW COR TOP CONC STEP-154' LT	650.52
510	116+49EB	SE COR TOP CONC PORCH-163' LT	648.32

PROJECT CONTROL

POINT NUMBER	STATION	OFFSET	Y	X	DESCRIPTION
CP121	93+46.40EB	17.985' RT	306885.364	227851.386	PK NAIL IN PAINTED PANEL
CP132	110+14.91EB	16.095' RT	306837.330	229519.207	PK NAIL IN PAINTED PANEL
CP138	118+39.53EB	41.25' LT	306870.750	230344.497	PK NAIL IN PAINTED PANEL



CURVE DATA
MENCHL DRIVE

PI STA = 9+65.32
Y = 306852.057
X = 228439.778
DELTA = 12°46'04"
D = 28°38'52"
T = 22.38'
L = 44.57'
R = 200.00'
PC STA = 9+42.95
Y = 306832.578
X = 228428.765
PT STA = 9+87.52
Y = 306873.488
X = 228446.213
BK = N29°28'57.0"E
AH = N16°42'52.5"E

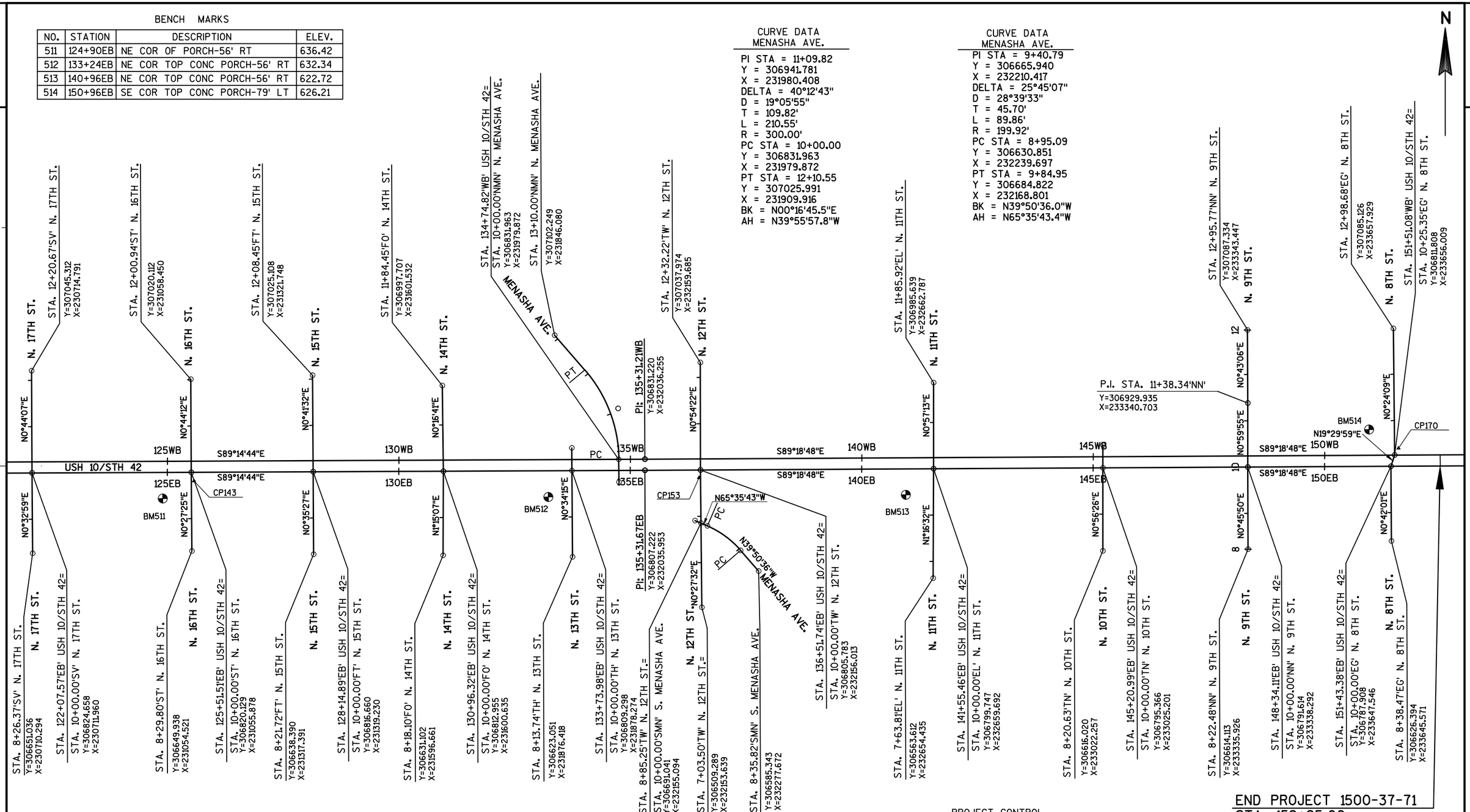
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	ALIGNMENT DIAGRAM	SHEET 306	E

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
511	124+90EB	NE COR OF PORCH-56' RT	636.42
512	133+24EB	NE COR TOP CONC PORCH-56' RT	632.34
513	140+96EB	NE COR TOP CONC PORCH-56' RT	622.72
514	150+96EB	SE COR TOP CONC PORCH-79' LT	626.21

CURVE DATA
MENASHA AVE.
PI STA = 11+09.82
Y = 306941.781
X = 231980.408
DELTA = 40°12'43"
D = 19°05'55"
T = 109.82'
L = 210.55'
R = 300.00'
PC STA = 10+00.00
Y = 306831.963
X = 231979.872
PT STA = 12+10.55
Y = 307025.991
X = 231909.916
BK = N00°16'45.5"E
AH = N39°55'57.8"W

CURVE DATA
MENASHA AVE.
PI STA = 9+40.79
Y = 306665.940
X = 232210.417
DELTA = 25°45'07"
D = 28°39'33"
T = 45.70'
L = 89.86'
R = 199.92'
PC STA = 8+95.09
Y = 306630.851
X = 232239.697
PT STA = 9+84.95
Y = 306684.822
X = 232168.801
BK = N39°50'36.0"W
AH = N65°35'43.4"W



END PROJECT 1500-37-71
STA. 152+25.00
Y=306786.630
X=233754.155

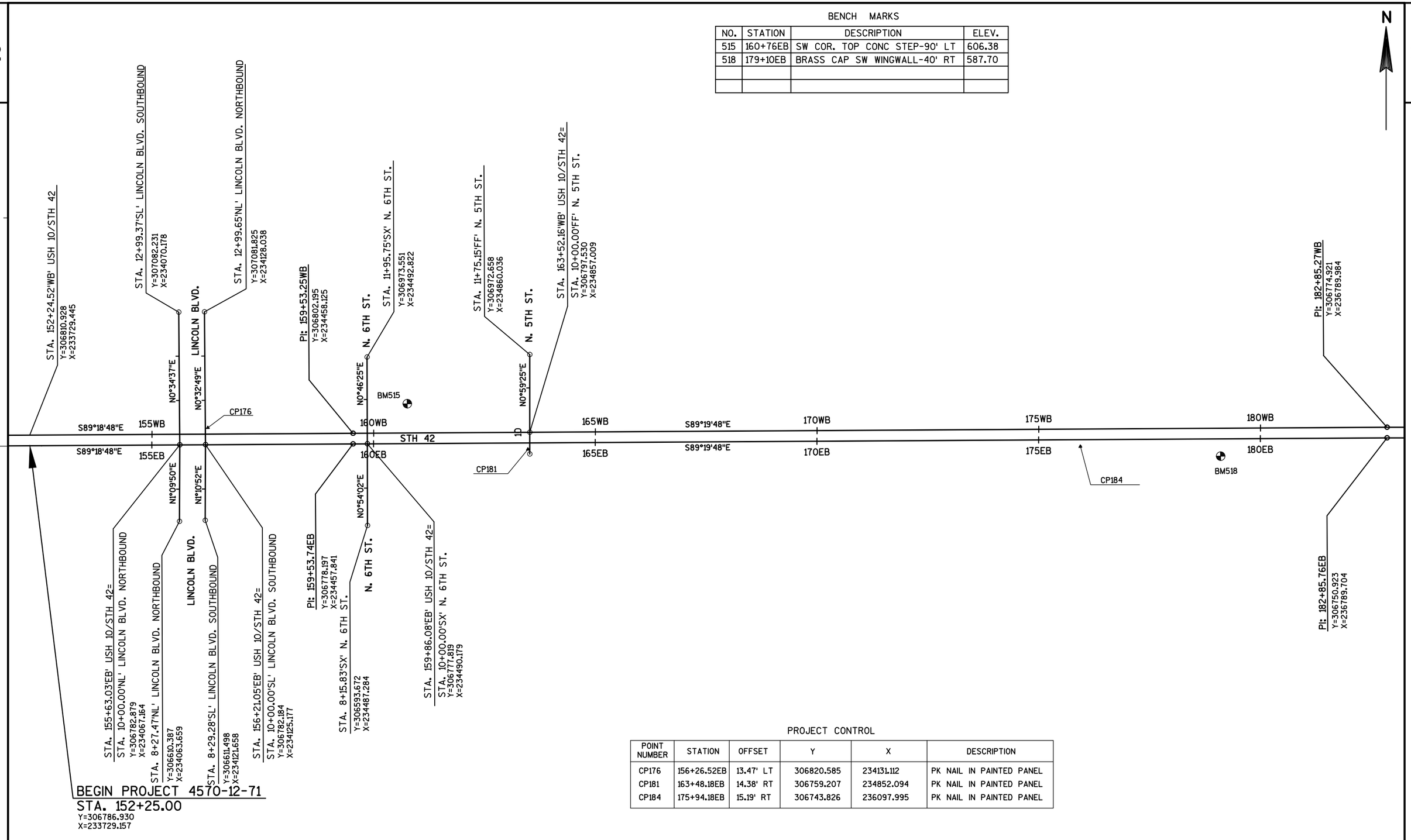
PROJECT CONTROL

POINT NUMBER	STATION	OFFSET	Y	X	DESCRIPTION
CP143	125+57.64EB	8.67' RT	306801.384	231061.758	PK NAIL IN PAINTED PANEL
CP153	136+48.55EB	16.71' RT	306789.113	232152.619	PK NAIL IN PAINTED PANEL
CP170	151+59.89EB	38.92' LT	306826.627	233664.519	PK NAIL IN PAINTED PANEL

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	ALIGNMENT DIAGRAM	SHEET 307	E

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
515	160+76EB	SW COR. TOP CONC STEP-90' LT	606.38
518	179+10EB	BRASS CAP SW WINGWALL-40' RT	587.70



PROJECT CONTROL

POINT NUMBER	STATION	OFFSET	Y	X	DESCRIPTION
CP176	156+26.52EB	13.47' LT	306820.585	234131.112	PK NAIL IN PAINTED PANEL
CP181	163+48.18EB	14.38' RT	306759.207	234852.094	PK NAIL IN PAINTED PANEL
CP184	175+94.18EB	15.19' RT	306743.826	236097.995	PK NAIL IN PAINTED PANEL

CURVE DATA

C1
PI STA = 187+35.35WB
Y = 306769.651
X = 237240.027
DELTA = 18°22'30"
D = 9°32'57"
T = 97.04'
L = 192.42'
R = 600.00'
PC STA = 186+38.30WB
Y = 306770.787
X = 237142.990
PT STA = 188+30.72WB
Y = 306799.162
X = 237332.475
BK = S89°19'44.8"E
AH = N72°17'45.7"E

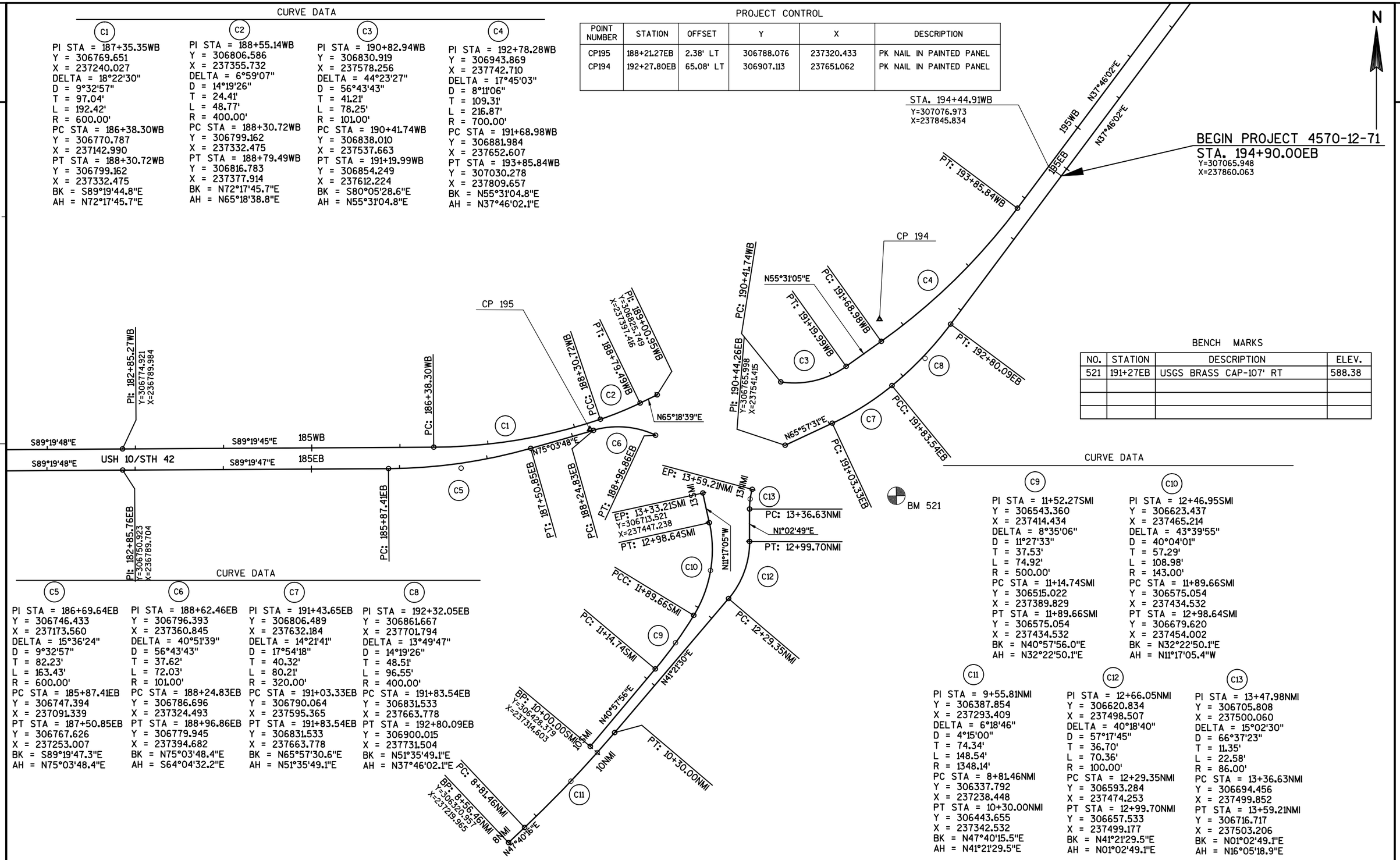
C2
PI STA = 188+55.14WB
Y = 306806.586
X = 237355.732
DELTA = 6°59'07"
D = 14°19'26"
T = 24.41'
L = 48.77'
R = 400.00'
PC STA = 188+30.72WB
Y = 306799.162
X = 237332.475
PT STA = 188+79.49WB
Y = 306816.783
X = 237377.914
BK = N72°17'45.7"E
AH = N65°18'38.8"E

C3
PI STA = 190+82.94WB
Y = 306830.919
X = 237578.256
DELTA = 44°23'27"
D = 56°43'43"
T = 41.21'
L = 78.25'
R = 101.00'
PC STA = 190+41.74WB
Y = 306838.010
X = 237537.663
PT STA = 191+19.99WB
Y = 306854.249
X = 237612.224
BK = S80°05'28.6"E
AH = N55°31'04.8"E

C4
PI STA = 192+78.28WB
Y = 306943.869
X = 237742.710
DELTA = 17°45'03"
D = 8°11'06"
T = 109.31'
L = 216.87'
R = 700.00'
PC STA = 191+68.98WB
Y = 306881.984
X = 237652.607
PT STA = 193+85.84WB
Y = 307030.278
X = 237809.657
BK = N55°31'04.8"E
AH = N37°46'02.1"E

PROJECT CONTROL

POINT NUMBER	STATION	OFFSET	Y	X	DESCRIPTION
CP195	188+21.27EB	2.38' LT	306788.076	237320.433	PK NAIL IN PAINTED PANEL
CP194	192+27.80EB	65.08' LT	306907.113	237651.062	PK NAIL IN PAINTED PANEL



BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
521	191+27EB	USGS BRASS CAP-107' RT	588.38

CURVE DATA

C5
PI STA = 186+69.64EB
Y = 306746.433
X = 237173.560
DELTA = 15°36'24"
D = 9°32'57"
T = 82.23'
L = 163.43'
R = 600.00'
PC STA = 185+87.41EB
Y = 306747.394
X = 237091.339
PT STA = 187+50.85EB
Y = 306767.626
X = 237253.007
BK = S89°19'47.3"E
AH = N75°03'48.4"E

C6
PI STA = 188+62.46EB
Y = 306796.393
X = 237360.845
DELTA = 40°51'39"
D = 56°43'43"
T = 37.62'
L = 72.03'
R = 101.00'
PC STA = 188+24.83EB
Y = 306786.696
X = 237324.493
PT STA = 188+96.86EB
Y = 306779.945
X = 237394.682
BK = N75°03'48.4"E
AH = S64°04'32.2"E

C7
PI STA = 191+43.65EB
Y = 306806.489
X = 237632.184
DELTA = 14°21'41"
D = 17°54'18"
T = 40.32'
L = 80.21'
R = 320.00'
PC STA = 191+03.33EB
Y = 306790.064
X = 237595.365
PT STA = 191+83.54EB
Y = 306831.533
X = 237663.778
BK = N65°57'30.6"E
AH = N51°35'49.1"E

C8
PI STA = 192+32.05EB
Y = 306861.667
X = 237701.794
DELTA = 13°49'47"
D = 14°19'26"
T = 48.51'
L = 96.55'
R = 400.00'
PC STA = 191+83.54EB
Y = 306831.533
X = 237663.778
PT STA = 192+80.09EB
Y = 306900.015
X = 237731.504
BK = N51°35'49.1"E
AH = N37°46'02.1"E

CURVE DATA

C9
PI STA = 11+52.27SMI
Y = 306543.360
X = 237414.434
DELTA = 8°35'06"
D = 11°27'33"
T = 37.53'
L = 74.92'
R = 500.00'
PC STA = 11+14.74SMI
Y = 306515.022
X = 237389.829
PT STA = 11+89.66SMI
Y = 306575.054
X = 237434.532
BK = N40°57'56.0"E
AH = N32°22'50.1"E

C10
PI STA = 12+46.95SMI
Y = 306623.437
X = 237465.214
DELTA = 43°39'55"
D = 40°04'01"
T = 57.29'
L = 108.98'
R = 143.00'
PC STA = 11+89.66SMI
Y = 306575.054
X = 237434.532
PT STA = 12+98.64SMI
Y = 306679.620
X = 237454.002
BK = N32°22'50.1"E
AH = N11°17'05.4"W

C11
PI STA = 9+55.81NMI
Y = 306387.854
X = 237293.409
DELTA = 6°18'46"
D = 4°15'00"
T = 74.34'
L = 148.54'
R = 1348.14'
PC STA = 8+81.46NMI
Y = 306337.792
X = 237238.448
PT STA = 10+30.00NMI
Y = 306443.655
X = 237342.532
BK = N47°40'15.5"E
AH = N41°21'29.5"E

C12
PI STA = 12+66.05NMI
Y = 306620.834
X = 237498.507
DELTA = 40°18'40"
D = 57°17'45"
T = 36.70'
L = 70.36'
R = 100.00'
PC STA = 12+29.35NMI
Y = 306593.284
X = 237474.253
PT STA = 12+99.70NMI
Y = 306657.533
X = 237499.177
BK = N41°21'29.5"E
AH = N01°02'49.1"E

C13
PI STA = 13+47.98NMI
Y = 306705.808
X = 237500.060
DELTA = 15°02'30"
D = 66°37'23"
T = 11.35'
L = 22.58'
R = 86.00'
PC STA = 13+36.63NMI
Y = 306694.456
X = 237499.852
PT STA = 13+59.21NMI
Y = 306716.717
X = 237503.206
BK = N01°02'49.1"E
AH = N16°05'18.9"E

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	ALIGNMENT DIAGRAM	SHEET 309	E

CURVE DATA

C14
PI STA = 11+73.61SBW
Y = 306794.982
X = 237211.987
DELTA = 13°37'37"
D = 9°57'52"
T = 68.70'
L = 136.75'
R = 575.00'
PC STA = 11+04.91SBW
Y = 306795.786
X = 237143.291
PT STA = 12+41.67SBW
Y = 306810.386
X = 237278.939
BK = S89°19'47.6"E
AH = N77°02'35.9"E

C15
PI STA = 13+14.03SBW
Y = 306825.948
X = 237349.365
DELTA = 18°11'28"
D = 14°19'26"
T = 64.04'
L = 127.00'
R = 400.00'
PC STA = 12+49.99SBW
Y = 306810.332
X = 237287.261
PT STA = 13+76.99SBW
Y = 306860.171
X = 237403.491
BK = N75°53'09.2"E
AH = N57°41'41.3"E

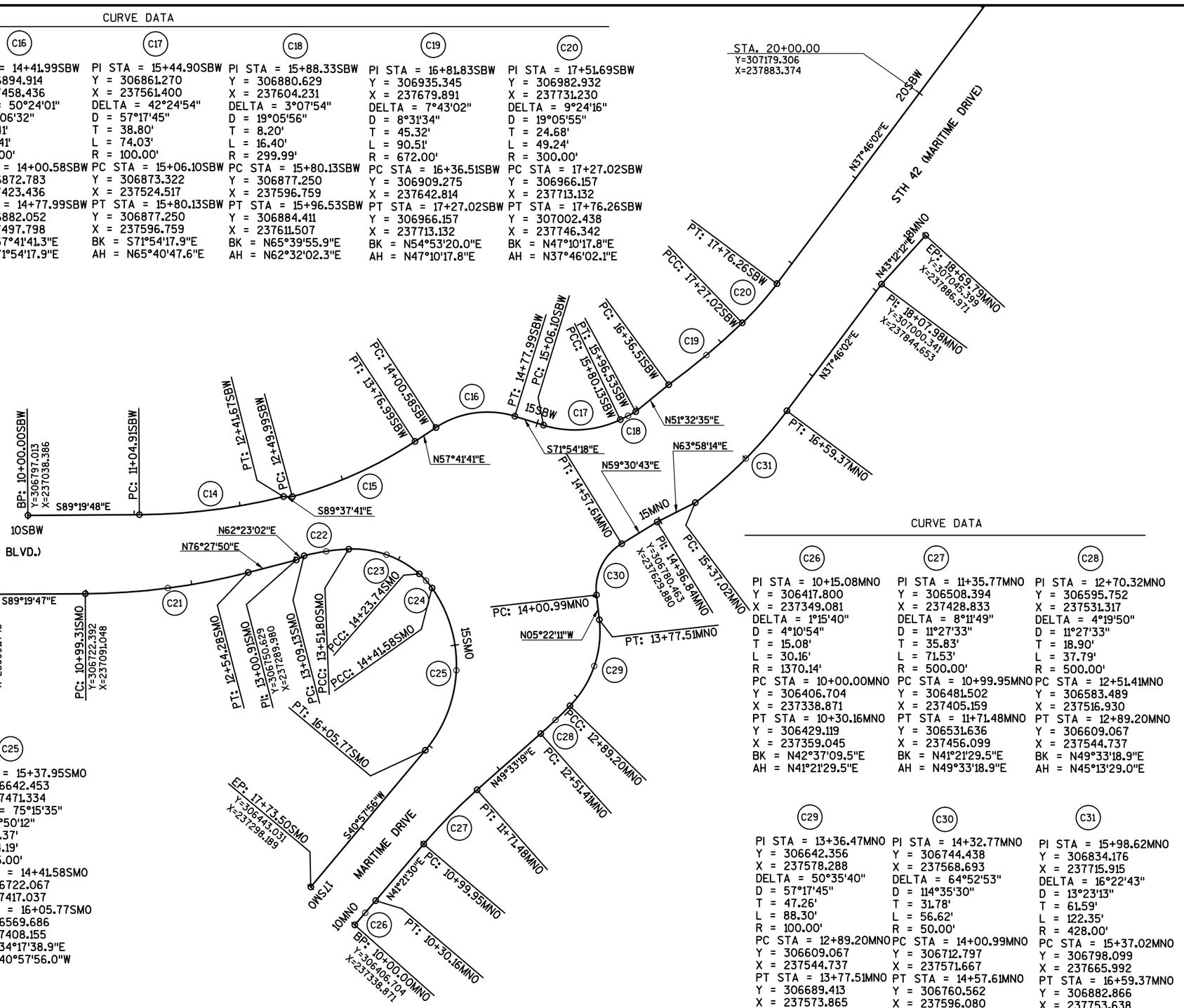
C16
PI STA = 14+41.99SBW
Y = 306894.914
X = 237458.436
DELTA = 50°24'01"
D = 65°06'32"
T = 41.41'
L = 77.41'
R = 88.00'
PC STA = 14+00.58SBW
Y = 306872.783
X = 237423.436
PT STA = 14+77.99SBW
Y = 306882.052
X = 237497.798
BK = N57°41'41.3"E
AH = S71°54'17.9"E

C17
PI STA = 15+44.90SBW
Y = 306861.270
X = 237561.400
DELTA = 42°24'54"
D = 57°17'45"
T = 38.80'
L = 74.03'
R = 100.00'
PC STA = 15+06.10SBW
Y = 306873.322
X = 237524.517
PT STA = 15+80.13SBW
Y = 306877.250
X = 237596.759
BK = S71°54'17.9"E
AH = N65°40'47.6"E

C18
PI STA = 15+88.33SBW
Y = 306880.629
X = 237604.231
DELTA = 3°07'54"
D = 19°05'56"
T = 8.20'
L = 16.40'
R = 299.99'
PC STA = 15+80.13SBW
Y = 306877.250
X = 237596.759
PT STA = 15+96.53SBW
Y = 306884.411
X = 237611.507
BK = N65°39'55.9"E
AH = N62°32'02.3"E

C19
PI STA = 16+81.83SBW
Y = 306935.345
X = 237679.891
DELTA = 7°43'02"
D = 8°31'34"
T = 45.32'
L = 90.51'
R = 672.00'
PC STA = 16+36.51SBW
Y = 306909.275
X = 237642.814
PT STA = 17+27.02SBW
Y = 306966.157
X = 237713.132
BK = N54°53'20.0"E
AH = N47°10'17.8"E

C20
PI STA = 17+51.69SBW
Y = 306982.932
X = 237731.230
DELTA = 9°24'16"
D = 19°05'55"
T = 24.68'
L = 49.24'
R = 300.00'
PC STA = 17+27.02SBW
Y = 306966.157
X = 237713.132
PT STA = 17+76.26SBW
Y = 307002.438
X = 237746.342
BK = N47°10'17.8"E
AH = N37°46'02.1"E



CURVE DATA

C21
PI STA = 11+77.19SMO
Y = 306721.485
X = 237168.926
DELTA = 14°12'23"
D = 9°10'02"
T = 77.88'
L = 154.97'
R = 625.00'
PC STA = 10+99.31SMO
Y = 306722.396
X = 237091.048
PT STA = 12+54.28SMO
Y = 306739.714
X = 237244.645
BK = S89°19'47.6"E
AH = N76°27'49.5"E

C22
PI STA = 13+30.54SMO
Y = 306759.446
X = 237318.087
DELTA = 12°12'03"
D = 28°35'37"
T = 21.42'
L = 42.67'
R = 200.38'
PC STA = 13+09.13SMO
Y = 306754.440
X = 237297.265
PT STA = 13+51.80SMO
Y = 306759.938
X = 237339.497
BK = N76°28'52.9"E
AH = N88°40'55.8"E

STH 42 (WALDO BLVD.)

C23
PI STA = 13+89.59SMO
Y = 306760.804
X = 237377.281
DELTA = 43°23'17"
D = 60°18'41"
T = 37.79'
L = 71.94'
R = 95.00'
PC STA = 13+51.80SMO
Y = 306759.938
X = 237339.497
PT STA = 14+23.74SMO
Y = 306735.478
X = 237405.334
BK = N88°41'16.6"E
AH = S47°55'26.1"E

C24
PI STA = 14+32.70SMO
Y = 306729.471
X = 237411.987
DELTA = 13°37'47"
D = 76°23'40"
T = 8.96'
L = 17.84'
R = 75.00'
PC STA = 14+23.74SMO
Y = 306735.478
X = 237405.334
PT STA = 14+41.58SMO
Y = 306722.067
X = 237417.037
BK = S47°55'26.1"E
AH = S34°17'38.9"E

C25
PI STA = 15+37.95SMO
Y = 306642.453
X = 237471.334
DELTA = 75°15'35"
D = 45°50'12"
T = 96.37'
L = 164.19'
R = 125.00'
PC STA = 14+41.58SMO
Y = 306722.067
X = 237417.037
PT STA = 16+05.77SMO
Y = 306569.686
X = 237408.155
BK = S34°17'38.9"E
AH = S40°57'56.0"W

CURVE DATA

C26
PI STA = 10+15.08MNO
Y = 306417.800
X = 237349.081
DELTA = 1°15'40"
D = 4°10'54"
T = 15.08'
L = 30.16'
R = 1370.14'
PC STA = 10+00.00MNO
Y = 306406.704
X = 237338.871
PT STA = 10+30.16MNO
Y = 306429.119
X = 237359.045
BK = N42°37'09.5"E
AH = N41°21'29.5"E

C27
PI STA = 11+35.77MNO
Y = 306508.394
X = 237428.833
DELTA = 8°11'49"
D = 11°27'33"
T = 35.83'
L = 71.53'
R = 500.00'
PC STA = 10+99.95MNO
Y = 306481.502
X = 237405.159
PT STA = 11+71.48MNO
Y = 306531.636
X = 237456.099
BK = N41°21'29.5"E
AH = N49°33'18.9"E

C28
PI STA = 12+70.32MNO
Y = 306595.752
X = 237531.317
DELTA = 4°19'50"
D = 11°27'33"
T = 18.90'
L = 37.79'
R = 500.00'
PC STA = 12+51.41MNO
Y = 306583.489
X = 237516.930
PT STA = 12+89.20MNO
Y = 306609.067
X = 237544.737
BK = N49°33'18.9"E
AH = N45°13'29.0"E

C29
PI STA = 13+36.47MNO
Y = 306642.356
X = 237578.288
DELTA = 50°35'40"
D = 57°17'45"
T = 47.26'
L = 88.30'
R = 100.00'
PC STA = 12+89.20MNO
Y = 306609.067
X = 237544.737
PT STA = 13+77.51MNO
Y = 306689.413
X = 237573.865
BK = N45°13'29.0"E
AH = N05°22'10.6"W

C30
PI STA = 14+32.77MNO
Y = 306744.438
X = 237568.693
DELTA = 64°52'53"
D = 114°35'30"
T = 31.78'
L = 56.62'
R = 50.00'
PC STA = 14+00.99MNO
Y = 306712.797
X = 237571.667
PT STA = 14+57.61MNO
Y = 306760.562
X = 237596.080
BK = N05°22'10.6"W
AH = N59°30'42.9"E

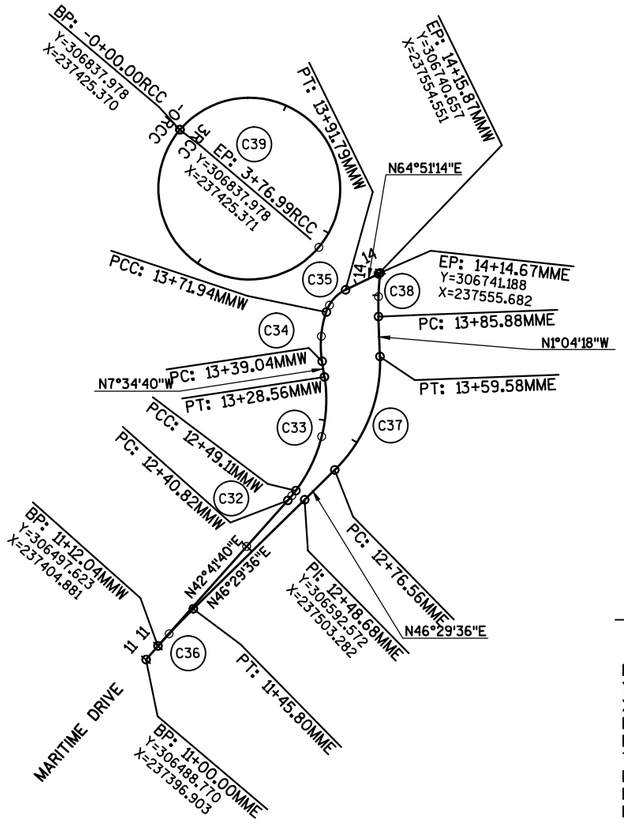
C31
PI STA = 15+98.62MNO
Y = 306834.176
X = 237715.915
DELTA = 16°22'43"
D = 13°23'13"
T = 61.59'
L = 122.35'
R = 428.00'
PC STA = 15+37.02MNO
Y = 306798.099
X = 237665.992
PT STA = 16+59.37MNO
Y = 306882.866
X = 237753.638
BK = N54°08'45.1"E
AH = N37°46'02.1"E

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	ALIGNMENT DIAGRAM	SHEET 310	E

CURVE DATA

C32	C33	C34	C35
PI STA = 12+44.97MMW	PI STA = 12+91.07MMW	PI STA = 13+55.80MMW	PI STA = 13+82.42MMW
Y = 306595.320	Y = 306631.679	Y = 306700.267	Y = 306725.972
X = 237495.016	X = 237523.364	X = 237514.239	X = 237523.267
DELTA = 4°45'09"	DELTA = 45°31'12"	DELTA = 26°55'50"	DELTA = 45°30'04"
D = 57°17'45"	D = 57°17'45"	D = 81°51'04"	D = 229°10'59"
T = 4.15'	T = 41.95'	T = 16.76'	T = 10.48'
L = 8.29'	L = 79.45'	L = 32.90'	L = 19.85'
R = 100.00'	R = 100.00'	R = 70.00'	R = 25.00'
PC STA = 12+40.82MMW	PC STA = 12+49.11MMW	PC STA = 13+39.04MMW	PC STA = 13+71.94MMW
Y = 306592.270	Y = 306598.593	Y = 306683.653	Y = 306716.081
X = 237492.202	X = 237497.568	X = 237516.449	X = 237519.793
PT STA = 12+49.11MMW	PT STA = 13+28.56MMW	PT STA = 13+71.94MMW	PT STA = 13+91.79MMW
Y = 306598.593	Y = 306673.266	Y = 306716.081	Y = 306730.427
X = 237497.568	X = 237517.831	X = 237519.793	X = 237532.757
BK = N42°41'40.1"E	BK = N37°56'31.1"E	BK = N07°34'40.5"W	BK = N19°21'09.3"E
AH = N37°56'31.1"E	AH = N07°34'40.5"W	AH = N19°21'09.3"E	AH = N64°51'13.1"E

N



CURVE DATA

C39
PI STA = -0+00.00RCC
Y = 306837.977
X = 237425.370
DELTA = 359°59'59"
D = 95°29'35"
T = 0.00'
L = 376.99'
R = 60.00'
PC STA = -0+00.00RCC
Y = 306837.977
X = 237425.370
PT STA = 3+76.99RCC
Y = 306837.978
X = 237425.371
BK = S41°16'17.2"W
AH = S41°16'18.6"W

CURVE DATA

C36	C37	C38
PI STA = 11+22.91MME	PI STA = 13+20.63MME	PI STA = 14+00.30MME
Y = 306505.969	Y = 306642.105	Y = 306726.884
X = 237412.044	X = 237555.467	X = 237553.881
DELTA = 5°08'06"	DELTA = 47°33'53"	DELTA = 8°14'46"
D = 11°12'45"	D = 57°17'45"	D = 28°38'52"
T = 22.91'	T = 44.07'	T = 14.42'
L = 45.80'	L = 83.02'	L = 28.78'
R = 511.00'	R = 100.00'	R = 200.00'
PC STA = 11+00.00MME	PC STA = 12+76.56MME	PC STA = 13+85.88MME
Y = 306488.770	Y = 306611.766	Y = 306712.469
X = 237396.903	X = 237523.504	X = 237554.151
PT STA = 11+45.80MME	PT STA = 13+59.58MME	PT STA = 14+14.67MME
Y = 306521.744	Y = 306686.166	Y = 306741.188
X = 237428.663	X = 237554.643	X = 237555.682
BK = N41°21'29.5"E	BK = N46°29'35.7"E	BK = N01°04'17.7"W
AH = N46°29'35.7"E	AH = N01°04'17.7"W	AH = N07°10'28.8"E

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	ALIGNMENT DIAGRAM	SHEET 311	E

Estimate Of Quantities

					1500-37-71	1500-37-72	1500-47-71	4570-12-71	4570-12-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**	**Qty**	**Qty**
0002	201.0105	Clearing	STA	10.000	8.000		2.000		
0004	201.0120	Clearing	ID	4,400.000	2,970.000		50.000	1,380.000	
0006	201.0205	Grubbing	STA	10.000	8.000		2.000		
0008	201.0220	Grubbing	ID	4,660.000	3,120.000		50.000	1,490.000	
0010	203.0200	Removing Old Structure (station) 01. 83'EB'+32	LS	1.000	1.000				
0012	203.0200	Removing Old Structure (station) 02. 179'EB'+26	LS	1.000				1.000	
0014	203.0225.S	Debris Containment (structure) 01. B-36-29	LS	1.000	1.000				
0016	203.0500.S	Removing Old Structure Over Waterway (station) 01. 70+52	LS	1.000	1.000				
0018	204.0100	Removing Pavement	SY	97,990.000	64,935.000		700.000	32,355.000	
0020	204.0105	Removing Pavement Butt Joints	SY	1,325.000			1,325.000		
0022	204.0110	Removing Asphaltic Surface	SY	760.000	590.000		85.000	85.000	
0024	204.0115	Removing Asphaltic Surface Butt Joints	SY	270.000			270.000		
0026	204.0130	Removing Curb	LF	30.000	10.000			20.000	
0028	204.0150	Removing Curb & Gutter	LF	740.000	125.000		550.000	65.000	
0030	204.0155	Removing Concrete Sidewalk	SY	15,460.000	11,410.000		150.000	3,900.000	
0032	204.0170	Removing Fence	LF	380.000	250.000		130.000		
0034	204.0190	Removing Surface Drains	EACH	1.000	1.000				
0036	204.0195	Removing Concrete Bases	EACH	45.000	33.000		12.000		
0038	204.0200	Removing Railroad Track	LF	120.000	120.000				
0040	204.0210	Removing Manholes	EACH	96.000	82.000		1.000	13.000	
0042	204.0220	Removing Inlets	EACH	242.000	169.000		2.000	71.000	
0044	204.0245	Removing Storm Sewer (size) 01. 12-Inch or Less	LF	9,050.000	6,854.000		100.000	2,096.000	
0046	204.0245	Removing Storm Sewer (size) 02. 15-Inch	LF	3,405.000	2,502.000			903.000	
0048	204.0245	Removing Storm Sewer (size) 03. 18-Inch	LF	3,305.000	3,083.000			222.000	
0050	204.0245	Removing Storm Sewer (size) 04. 21-Inch	LF	1,595.000	1,595.000				
0052	204.0245	Removing Storm Sewer (size) 05. 24-Inch	LF	535.000	375.000			160.000	
0054	204.0245	Removing Storm Sewer (size) 06. 36-Inch	LF	85.000	85.000				
0056	204.0245	Removing Storm Sewer (size) 07. 42-Inch	LF	730.000	730.000				
0058	204.0245	Removing Storm Sewer (size) 08. 48-Inch	LF	165.000	165.000				
0060	204.0245	Removing Storm Sewer (size) 09. 60-Inch	LF	1,010.000				1,010.000	
0062	204.0245	Removing Storm Sewer (size) 10. 72-Inch	LF	160.000	160.000				
0064	204.0250	Abandoning Manholes	EACH	6.000	1.000			5.000	
0066	204.0280	Sealing Pipes	EACH	3.000	3.000				
0068	204.0291.S	Abandoning Sewer	CY	1,405.000	400.000			1,005.000	
0070	204.9060.S	Removing (item description) 01. Light Poles and Bases	EACH	88.000	56.000			32.000	
0072	204.9060.S	Removing (item description) 02. Railroad Signal Base	EACH	2.000	2.000				
0074	204.9090.S	Removing (item description) 01. Wooden Guardrail and Posts	LF	130.000	130.000				
0076	204.9090.S	Removing (item description) 02. Metal Railing	LF	25.000	25.000				

					1500-37-71	1500-37-72	1500-47-71	4570-12-71	4570-12-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**	**Qty**	**Qty**
0078	205.0100	Excavation Common	CY	86,000.000	59,775.000			26,225.000	
0080	206.1000	Excavation for Structures Bridges (structure) 01. B-36-29	LS	1.000	1.000				
0082	206.2000	Excavation for Structures Culverts (structure) 01. B-36-232	LS	1.000	1.000				
0084	209.0200.S	Backfill Controlled Low Strength	CY	1,035.000	750.000			285.000	
0086	210.1500	Backfill Structure Type A	TON	250.000	250.000				
0088	210.2500	Backfill Structure Type B	TON	4,590.000	4,590.000				
0090	213.0100	Finishing Roadway (project) 01. 1500-37-71	EACH	1.000	1.000				
0092	213.0100	Finishing Roadway (project) 02. 1500-47-71	EACH	1.000			1.000		
0094	213.0100	Finishing Roadway (project) 03. 4570-12-71	EACH	1.000				1.000	
0096	305.0110	Base Aggregate Dense 3/4-Inch	TON	10.000			10.000		
0098	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	44,980.000	31,040.000		200.000	13,740.000	
0100	310.0115	Base Aggregate Open-Graded	CY	110.000	31.000			79.000	
0102	311.0110	Breaker Run	TON	75,000.000	48,700.000			26,300.000	
0104	311.0115	Breaker Run	CY	530.000	530.000				
0106	320.0155	Concrete Base 9-Inch	SY	300.000				300.000	
0108	390.0303	Base Patching Concrete	SY	1,250.000			1,250.000		
0110	405.0100	Coloring Concrete WisDOT Red	CY	425.000	205.000			220.000	
0112	415.0080	Concrete Pavement 8-Inch	SY	10,410.000	9,150.000		135.000	1,125.000	
0114	415.0085	Concrete Pavement 8 1/2-Inch	SY	77,155.000	51,450.000			25,705.000	
0116	415.0095	Concrete Pavement 9 1/2-Inch	SY	1,430.000				1,430.000	
0118	415.0210	Concrete Pavement Gaps	EACH	5.000	5.000				
0120	415.0410	Concrete Pavement Approach Slab	SY	168.000	168.000				
0122	415.1080	Concrete Pavement HES 8-Inch	SY	615.000	515.000			100.000	
0124	415.1085	Concrete Pavement HES 8 1/2-Inch	SY	860.000	760.000			100.000	
0126	415.4100	Concrete Pavement Joint Filling	SY	93,960.000	64,800.000			29,160.000	
0128	415.5110.S	Concrete Pavement Joint Layout 01. 1500-37-71	LS	1.000	1.000				
0130	415.5110.S	Concrete Pavement Joint Layout 02. 1500-47-71	LS	1.000			1.000		
0132	415.5110.S	Concrete Pavement Joint Layout 03. 4570-12-71	LS	1.000				1.000	
0134	416.0160	Concrete Driveway 6-Inch	SY	3,530.000	2,205.000		500.000	825.000	
0136	416.0512	Concrete Truck Apron 12-Inch	SY	410.000				410.000	
0138	416.0610	Drilled Tie Bars	EACH	734.000	55.000		572.000	107.000	
0140	416.0620	Drilled Dowel Bars	EACH	2,194.000	1,133.000		860.000	201.000	
0142	455.0605	Tack Coat	GAL	1,210.300	42.000		1,149.000	19.300	
0144	460.2000	Incentive Density HMA Pavement	DOL	2,070.000	130.000		1,910.000	30.000	
0146	460.6223	HMA Pavement 3 MT 58-28 S	TON	100.000	100.000				
0148	460.6224	HMA Pavement 4 MT 58-28 S	TON	3,110.000	95.000		2,975.000	40.000	
0150	465.0105	Asphaltic Surface	TON	45.000				45.000	
0152	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	60.000	16.000		12.000	32.000	

					1500-37-71	1500-37-72	1500-47-71	4570-12-71	4570-12-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**	**Qty**	**Qty**
0154	465.0125	Asphaltic Surface Temporary	TON	1,930.000	1,685.000			245.000	
0156	465.0305	Asphaltic Surface Safety Islands	TON	10.000			10.000		
0158	465.0310	Asphaltic Curb	LF	176.000	130.000			46.000	
0160	502.0100	Concrete Masonry Bridges	CY	780.000	730.000			50.000	
0162	502.3200	Protective Surface Treatment	SY	2,195.000	2,085.000			110.000	
0164	502.3210	Pigmented Surface Sealer	SY	274.000	239.000			35.000	
0166	502.4204	Adhesive Anchors No. 4 Bar	EACH	1,402.000	1,142.000			260.000	
0168	504.0100	Concrete Masonry Culverts	CY	613.000	613.000				
0170	504.0900	Concrete Masonry Endwalls	CY	3.000				3.000	
0172	505.0400	Bar Steel Reinforcement HS Structures	LB	75,760.000	75,760.000				
0174	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	173,090.000	168,550.000			4,540.000	
0176	506.2605	Bearing Pads Elastomeric Non-Laminated	EACH	16.000	16.000				
0178	506.4000	Steel Diaphragms (structure) 01. B-36-29	EACH	28.000	28.000				
0180	506.7050.S	Removing Bearings (structure) 01. B-36-29	EACH	16.000	16.000				
0182	509.0301	Preparation Decks Type 1	SY	30.000				30.000	
0184	509.0302	Preparation Decks Type 2	SY	15.000				15.000	
0186	509.1500	Concrete Surface Repair	SF	150.000	100.000			50.000	
0188	509.2000	Full-Depth Deck Repair	SY	5.000				5.000	
0190	509.2500	Concrete Masonry Overlay Decks	CY	5.000				5.000	
0192	513.7016	Railing Steel Type C3	LF	648.000	578.000			70.000	
0194	516.0500	Rubberized Membrane Waterproofing	SY	78.000	78.000				
0196	516.0610.S	Sheet Membrane Waterproofing for Top Slab (structure) 01. B-36-900	SY	280.000				280.000	
0198	517.1010.S	Concrete Staining (structure) 01. B-36-900	SF	460.000				460.000	
0200	517.1050.S	Architectural Surface Treatment (structure) 01. B-36-900	SF	160.000				160.000	
0202	520.8000	Concrete Collars for Pipe	EACH	26.000	17.000		4.000	5.000	
0204	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	1.000				1.000	
0206	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	5.000	1.000			4.000	
0208	522.1072	Apron Endwalls for Culvert Pipe Reinforced Concrete 72-Inch	EACH	1.000	1.000				
0210	601.0105	Concrete Curb Type A	LF	30.000	10.000			20.000	
0212	601.0405	Concrete Curb & Gutter 18-Inch Type A	LF	6,795.000	4,890.000		220.000	1,685.000	
0214	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	8,921.000	4,851.000		460.000	3,610.000	
0216	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	185.000				185.000	
0218	601.0413	Concrete Curb & Gutter 6-Inch Sloped 30-Inch Type G	LF	220.000				220.000	
0220	601.0580	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type R	LF	365.000				365.000	
0222	601.0600	Concrete Curb Pedestrian	LF	460.000	81.000			379.000	
0224	602.0405	Concrete Sidewalk 4-Inch	SF	133,510.000	93,910.000		520.000	39,080.000	

					1500-37-71	1500-37-72	1500-47-71	4570-12-71	4570-12-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**	**Qty**	**Qty**
0226	602.0410	Concrete Sidewalk 5-Inch	SF	6,660.000				6,660.000	
0228	602.0415	Concrete Sidewalk 6-Inch	SF	9,160.000	5,445.000		1,080.000	2,635.000	
0230	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	1,260.000	680.000		110.000	470.000	
0232	602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	162.000	108.000			54.000	
0234	602.1500	Concrete Steps	SF	30.000	30.000				
0236	606.0200	Riprap Medium	CY	15.000	10.000			5.000	
0238	606.0300	Riprap Heavy	CY	695.000	135.000			560.000	
0240	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	5,566.000	4,155.000			1,411.000	
0242	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	1,550.000	1,026.000		77.000	447.000	
0244	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	946.000	246.000			700.000	
0246	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	5,048.000	3,677.000			1,371.000	
0248	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	1,020.000	1,020.000				
0250	608.0336	Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	LF	1,803.000	1,803.000				
0252	608.0348	Storm Sewer Pipe Reinforced Concrete Class III 48-Inch	LF	164.000	164.000				
0254	608.0360	Storm Sewer Pipe Reinforced Concrete Class III 60-Inch	LF	568.000	568.000				
0256	608.0366	Storm Sewer Pipe Reinforced Concrete Class III 66-Inch	LF	520.000	421.000			99.000	
0258	608.0372	Storm Sewer Pipe Reinforced Concrete Class III 72-Inch	LF	2,004.000	168.000			1,836.000	
0260	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	29.000	29.000				
0262	608.0466	Storm Sewer Pipe Reinforced Concrete Class IV 66-Inch	LF	934.000	579.000			355.000	
0264	608.3030	Storm Sewer Pipe Class III-A 30-Inch	LF	103.000	103.000				
0266	611.0535	Manhole Covers Type J-Special	EACH	63.000	52.000		2.000	9.000	
0268	611.0624	Inlet Covers Type H	EACH	238.000	165.000			73.000	
0270	611.0630	Inlet Covers Type HM-GJ	EACH	1.000				1.000	
0272	611.0639	Inlet Covers Type H-S	EACH	76.000	54.000			22.000	
0274	611.0642	Inlet Covers Type MS	EACH	2.000			1.000	1.000	
0276	611.0652	Inlet Covers Type T	EACH	2.000				2.000	
0278	611.1004	Catch Basins 4-FT Diameter	EACH	28.000	14.000			14.000	
0280	611.1005	Catch Basins 5-FT Diameter	EACH	2.000	1.000			1.000	
0282	611.1006	Catch Basins 6-FT Diameter	EACH	1.000				1.000	
0284	611.1230	Catch Basins 2x3-FT	EACH	285.000	203.000			82.000	

					1500-37-71	1500-37-72	1500-47-71	4570-12-71	4570-12-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**	**Qty**	**Qty**
0286	611.2004	Manholes 4-FT Diameter	EACH	26.000	21.000		1.000	4.000	
0288	611.2005	Manholes 5-FT Diameter	EACH	24.000	20.000			4.000	
0290	611.2006	Manholes 6-FT Diameter	EACH	1.000	1.000				
0292	611.2007	Manholes 7-FT Diameter	EACH	1.000	1.000				
0294	611.2008	Manholes 8-FT Diameter	EACH	6.000	4.000		1.000	1.000	
0296	611.2504	Manholes Variable Tee 4-FT Diameter	EACH	4.000	3.000			1.000	
0298	611.3003	Inlets 3-FT Diameter	EACH	2.000	2.000				
0300	611.3901	Inlets Median 1 Grate	EACH	2.000			1.000	1.000	
0302	611.8115	Adjusting Inlet Covers	EACH	2.000				2.000	
0304	611.8120.S	Cover Plates Temporary	EACH	8.000				8.000	
0306	611.9800.S	Pipe Grates	EACH	2.000	1.000			1.000	
0308	612.0106	Pipe Underdrain 6-Inch	LF	2,215.000	780.000			1,435.000	
0310	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	250.000	250.000				
0312	612.0902.S	Insulation Board Polystyrene (inch) 01. 2-Inch	SY	2,710.000	2,017.000			693.000	
0314	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4.000	4.000				
0316	614.0920	Salvaged Rail	LF	2,775.000	2,470.000			305.000	
0318	614.0925	Salvaged Guardrail End Treatments	EACH	6.000	4.000			2.000	
0320	614.2300	MGS Guardrail 3	LF	2,173.000	2,173.000				
0322	614.2500	MGS Thrie Beam Transition	LF	95.000	95.000				
0324	614.2610	MGS Guardrail Terminal EAT	EACH	2.000	2.000				
0326	614.2620	MGS Guardrail Terminal Type 2	EACH	2.000	2.000				
0328	616.0700.S	Fence Safety	LF	1,000.000	500.000			500.000	
0330	619.1000	Mobilization	EACH	1.000	0.500	0.100	0.040	0.350	0.010
0332	620.0100	Concrete Corrugated Median	SF	4,640.000	4,640.000				
0334	620.0300	Concrete Median Sloped Nose	SF	2,660.000	1,180.000		665.000	815.000	
0336	623.0200	Dust Control Surface Treatment	SY	115,000.000	75,000.000			40,000.000	
0338	624.0100	Water	MGAL	1,474.000	970.000		2.000	502.000	
0340	625.0100	Topsoil	SY	62,190.000	35,120.000		680.000	26,390.000	
0342	627.0200	Mulching	SY	28,000.000	20,000.000			8,000.000	
0344	628.1504	Silt Fence	LF	12,500.000	7,650.000			4,850.000	
0346	628.1520	Silt Fence Maintenance	LF	74,400.000	45,300.000			29,100.000	
0348	628.1905	Mobilizations Erosion Control	EACH	20.000	13.000		3.000	4.000	
0350	628.1910	Mobilizations Emergency Erosion Control	EACH	16.000	9.000		2.000	5.000	
0352	628.2004	Erosion Mat Class I Type B	SY	1,700.000	800.000			900.000	
0354	628.2006	Erosion Mat Urban Class I Type A	SY	43,400.000	20,700.000		300.000	22,400.000	
0356	628.2008	Erosion Mat Urban Class I Type B	SY	5,645.000	4,965.000		380.000	300.000	
0358	628.7005	Inlet Protection Type A	EACH	324.000	221.000		1.000	102.000	
0360	628.7010	Inlet Protection Type B	EACH	4.000	2.000		1.000	1.000	
0362	628.7015	Inlet Protection Type C	EACH	365.000	215.000		55.000	95.000	
0364	628.7020	Inlet Protection Type D	EACH	65.000	40.000		5.000	20.000	

					1500-37-71	1500-37-72	1500-47-71	4570-12-71	4570-12-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**	**Qty**	**Qty**
0366	628.7555	Culvert Pipe Checks	EACH	3.000				3.000	
0368	628.7560	Tracking Pads	EACH	16.000	8.000			8.000	
0370	628.7570	Rock Bags	EACH	245.000	145.000			100.000	
0372	629.0210	Fertilizer Type B	CWT	65.500	41.000		0.500	24.000	
0374	630.0130	Seeding Mixture No. 30	LB	855.000	375.000		5.000	475.000	
0376	630.0140	Seeding Mixture No. 40	LB	1,220.000	750.000		10.000	460.000	
0378	630.0200	Seeding Temporary	LB	230.000	150.000		5.000	75.000	
0380	630.0300	Seeding Borrow Pit	LB	350.000	260.000			90.000	
0382	630.0400	Seeding Nurse Crop	LB	9.000				9.000	
0384	631.0300	Sod Water	MGAL	675.000	360.000		15.000	300.000	
0386	631.1000	Sod Lawn	SY	10,700.000	6,950.000			3,750.000	
0388	632.0101	Trees (species) (size) (root) 01. Autumn Gold Ginkgo, 2-Inch Cal., B&B	EACH	7.000	4.000			3.000	
0390	632.0101	Trees (species) (size) (root) 02. Common Hackberry, 2-Inch Cal., B&B	EACH	12.000	6.000			6.000	
0392	632.0101	Trees (species) (size) (root) 03. Espresso Kentucky Coffeetree, 2-Inch Cal., B&B	EACH	13.000	2.000			11.000	
0394	632.0101	Trees (species) (size) (root) 04. Regal Elm, 2-Inch Cal., B&B	EACH	8.000	2.000			6.000	
0396	632.0101	Trees (species) (size) (root) 05. Red Maple, 2-Inch Cal., B&B	EACH	9.000	9.000				
0398	632.0101	Trees (species) (size) (root) 06. Redmond Linden, 2-Inch Cal., B&B	EACH	11.000	5.000			6.000	
0400	632.0101	Trees (species) (size) (root) 07. Skyline Honeylocust, 2-Inch Cal., B&B	EACH	14.000	5.000			9.000	
0402	632.0101	Trees (species) (size) (root) 08. Swamp White Oak, 2-Inch Cal., B&B	EACH	12.000	4.000			8.000	
0404	632.0101	Trees (species) (size) (root) 09. Autumn Brilliance Serviceberry, 1.5-Inch Cal., B&B	EACH	21.000	10.000			11.000	
0406	632.0101	Trees (species) (size) (root) 10. Colorado Blue Spruce, 6-Foot HT. Cal., B&B	EACH	11.000				11.000	
0408	632.0101	Trees (species) (size) (root) 11. Schubert Chokecherry, 6-Foot HT., B&B	EACH	12.000	12.000				
0410	632.0101	Trees (species) (size) (root) 12. Crusader Thornless Cockspur Hawthorn, 1.5-Inch Cal., B&B	EACH	12.000	4.000			8.000	
0412	632.0101	Trees (species) (size) (root) 13. Spring Snow Crabapple, 1.5-Inch Cal., B&B	EACH	4.000	2.000			2.000	
0414	632.0201	Shrubs (species) (size) (root) 01. Plumosa Creeping Juniper, 6-Inch HT., CG	EACH	111.000				111.000	
0416	632.0201	Shrubs (species) (size) (root) 02. Staghorn Sumac, 2-Foot HT., CG	EACH	11.000	11.000				
0418	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	20.000	10.000			10.000	

					1500-37-71	1500-37-72	1500-47-71	4570-12-71	4570-12-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**	**Qty**	**Qty**
0420	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	7.000			1.000	6.000	
0422	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	108.000	59.000		19.000	30.000	
0424	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	74.000	38.000		10.000	26.000	
0426	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	18.000	11.000		4.000	3.000	
0428	634.0622	Posts Wood 4x6-Inch X 22-FT	EACH	1.000	1.000				
0430	637.0620	Sign Flags Permanent Type II	EACH	12.000				12.000	
0432	637.2210	Signs Type II Reflective H	SF	1,571.140	837.380		262.670	471.090	
0434	637.2215	Signs Type II Reflective H Folding	SF	193.960	126.820		59.680	7.460	
0436	637.2230	Signs Type II Reflective F	SF	308.250	208.250		34.500	65.500	
0438	638.2102	Moving Signs Type II	EACH	1.000				1.000	
0440	638.2602	Removing Signs Type II	EACH	245.000	146.000		42.000	57.000	
0442	638.3000	Removing Small Sign Supports	EACH	151.000	78.000		24.000	49.000	
0444	638.3155	Removing Overhead Sign Supports Full Span (structure) 01. S-36-025	EACH	1.000	1.000				
0446	638.3155	Removing Overhead Sign Supports Full Span (structure) 02. S-36-034	EACH	1.000	1.000				
0448	638.3155	Removing Overhead Sign Supports Full Span (structure) 03. S-36-35	EACH	1.000	1.000				
0450	638.4000	Moving Small Sign Supports	EACH	1.000				1.000	
0452	641.8100	Overhead Sign Support (structure) 01. S-36-18	LS	1.000				1.000	
0454	641.8100	Overhead Sign Support (structure) 02. S-36-19	LS	1.000				1.000	
0456	642.5401	Field Office Type D	EACH	1.000	0.300	0.100	0.100	0.400	0.100
0458	643.0300	Traffic Control Drums	DAY	137,760.000	50,690.000		44,840.000	42,230.000	
0460	643.0420	Traffic Control Barricades Type III	DAY	33,600.000	24,480.000		2,280.000	6,840.000	
0462	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	70.000				70.000	
0464	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	70.000				70.000	
0466	643.0705	Traffic Control Warning Lights Type A	DAY	58,200.000	39,960.000		4,560.000	13,680.000	
0468	643.0715	Traffic Control Warning Lights Type C	DAY	10,660.000	1,790.000		4,940.000	3,930.000	
0470	643.0800	Traffic Control Arrow Boards	DAY	360.000	28.000		304.000	28.000	
0472	643.0900	Traffic Control Signs	DAY	180,774.000	164,370.000		6,612.000	9,792.000	
0474	643.0910	Traffic Control Covering Signs Type I	EACH	7.000	7.000				
0476	643.0920	Traffic Control Covering Signs Type II	EACH	18.000	18.000				
0478	643.1000	Traffic Control Signs Fixed Message	SF	118.500	118.500				
0480	643.1050	Traffic Control Signs PCMS	DAY	399.000	259.000		42.000	98.000	
0482	643.1070	Traffic Control Cones 42-Inch	DAY	14,400.000				14,400.000	
0484	643.5000	Traffic Control	EACH	1.000	0.400		0.200	0.400	
0486	644.1410.S	Temporary Pedestrian Surface Asphalt	SF	11,655.000	9,145.000		40.000	2,470.000	
0488	644.1601.S	Temporary Curb Ramp	EACH	73.000	60.000			13.000	
0490	644.1616.S	Temporary Pedestrian Safety Fence	LF	7,664.000	3,844.000			3,820.000	
0492	645.0105	Geotextile Type C	SY	850.000	850.000				

					1500-37-71	1500-37-72	1500-47-71	4570-12-71	4570-12-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**	**Qty**	**Qty**
0494	645.0111	Geotextile Type DF Schedule A	SY	1,470.000	585.000			885.000	
0496	645.0120	Geotextile Type HR	SY	945.000	285.000			660.000	
0498	645.0140	Geotextile Type SAS	SY	100.000	100.000				
0500	645.0220	Geogrid Type SR	SY	2,000.000	1,000.000			1,000.000	
0502	646.1020	Marking Line Epoxy 4-Inch	LF	8,110.000	4,550.000		1,600.000	1,960.000	
0504	646.3020	Marking Line Epoxy 8-Inch	LF	4,330.000	1,990.000		920.000	1,420.000	
0506	646.5020	Marking Arrow Epoxy	EACH	65.000	37.000		16.000	12.000	
0508	646.5120	Marking Word Epoxy	EACH	17.000	10.000		2.000	5.000	
0510	646.6120	Marking Stop Line Epoxy 18-Inch	LF	890.000	635.000		160.000	95.000	
0512	646.6220	Marking Yield Line Epoxy 18-Inch	EACH	4.000				4.000	
0514	646.7120	Marking Diagonal Epoxy 12-Inch	LF	50.000				50.000	
0516	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	5,620.000	4,400.000		330.000	890.000	
0518	646.8120	Marking Curb Epoxy	LF	920.000	460.000		340.000	120.000	
0520	646.8220	Marking Island Nose Epoxy	EACH	72.000	46.000		14.000	12.000	
0522	646.9000	Marking Removal Line 4-Inch	LF	15.000				15.000	
0524	646.9010	Marking Removal Line Water Blasting 4-Inch	LF	1,375.000	755.000			620.000	
0526	646.9100	Marking Removal Line 8-Inch	LF	410.000	35.000			375.000	
0528	646.9110	Marking Removal Line Water Blasting 8-Inch	LF	115.000	115.000				
0530	646.9300	Marking Removal Special Marking	EACH	3.000				3.000	
0532	646.9310	Marking Removal Special Marking Water Blasting	EACH	5.000	5.000				
0534	649.0105	Temporary Marking Line Paint 4-Inch	LF	5,410.000				5,410.000	
0536	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	8,155.000	2,015.000			6,140.000	
0538	650.4000	Construction Staking Storm Sewer	EACH	403.000	277.000		3.000	123.000	
0540	650.4500	Construction Staking Subgrade	LF	28,564.000	18,751.000			9,813.000	
0542	650.5000	Construction Staking Base	LF	140.000	140.000				
0544	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	260.000	75.000			185.000	
0546	650.6500	Construction Staking Structure Layout (structure) 01. B-36-29	LS	1.000	1.000				
0548	650.6500	Construction Staking Structure Layout (structure) 02. B-36-232	LS	1.000	1.000				
0550	650.6500	Construction Staking Structure Layout (structure) 03. B-36-900	LS	1.000				1.000	
0552	650.7000	Construction Staking Concrete Pavement	LF	28,424.000	18,611.000			9,813.000	
0554	650.8000	Construction Staking Resurfacing Reference	LF	3,200.000			3,200.000		
0556	650.8500	Construction Staking Electrical Installations (project) 01. 1500-37-71	LS	1.000	1.000				
0558	650.8500	Construction Staking Electrical Installations (project) 02. 1500-47-71	LS	1.000			1.000		
0560	650.8500	Construction Staking Electrical Installations (project) 03. 4570-12-71	LS	1.000				1.000	
0562	650.9910	Construction Staking Supplemental Control (project) 01.	LS	1.000	1.000				

Line	Item	Item Description	Unit	Total	1500-37-71 Qty	1500-37-72 Qty	1500-47-71 Qty	4570-12-71 Qty	4570-12-72 Qty
		1500-37-71							
0564	650.9910	Construction Staking Supplemental Control (project) 02. 1500-47-71	LS	1.000			1.000		
0566	650.9910	Construction Staking Supplemental Control (project) 03. 4570-12-71	LS	1.000				1.000	
0568	650.9920	Construction Staking Slope Stakes	LF	28,564.000	18,751.000			9,813.000	
0570	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	14,073.000	9,200.000		453.000	4,420.000	
0572	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	3,706.000	3,111.000		595.000		
0574	652.0615	Conduit Special 3-Inch	LF	690.000			690.000		
0576	652.0800	Conduit Loop Detector	LF	4,224.000	3,044.000		1,180.000		
0578	653.0135	Pull Boxes Steel 24x36-Inch	EACH	20.000	15.000		5.000		
0580	653.0140	Pull Boxes Steel 24x42-Inch	EACH	42.000	31.000		11.000		
0582	653.0905	Removing Pull Boxes	EACH	71.000	56.000		13.000	2.000	
0584	654.0101	Concrete Bases Type 1	EACH	28.000	24.000		4.000		
0586	654.0102	Concrete Bases Type 2	EACH	4.000	4.000				
0588	654.0110	Concrete Bases Type 10	EACH	2.000	2.000				
0590	654.0113	Concrete Bases Type 13	EACH	10.000	6.000		4.000		
0592	654.0217	Concrete Control Cabinet Bases Type 9 Special	EACH	4.000	3.000		1.000		
0594	655.0230	Cable Traffic Signal 5-14 AWG	LF	1,815.000	1,369.000		446.000		
0596	655.0240	Cable Traffic Signal 7-14 AWG	LF	1,946.000	1,593.000		353.000		
0598	655.0250	Cable Traffic Signal 9-14 AWG	LF	996.000	996.000				
0600	655.0260	Cable Traffic Signal 12-14 AWG	LF	2,395.000	1,631.000		764.000		
0602	655.0270	Cable Traffic Signal 15-14 AWG	LF	2,046.000	1,304.000		742.000		
0604	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	5,208.000	3,675.000		1,533.000		
0606	655.0610	Electrical Wire Lighting 12 AWG	LF	19,050.000	10,869.000		576.000	7,605.000	
0608	655.0620	Electrical Wire Lighting 8 AWG	LF	4,692.000	2,925.000		1,767.000		
0610	655.0700	Loop Detector Lead In Cable	LF	12,095.000	8,099.000		3,996.000		
0612	655.0800	Loop Detector Wire	LF	14,178.000	10,088.000		4,090.000		
0614	656.0200	Electrical Service Meter Breaker Pedestal (location) 01. USH 10 & CTH R	LS	1.000			1.000		
0616	656.0200	Electrical Service Meter Breaker Pedestal (location) 02. USH 10 & 18th Street	LS	1.000	1.000				
0618	656.0200	Electrical Service Meter Breaker Pedestal (location) 03. USH 10 & 11th Street	LS	1.000	1.000				
0620	656.0200	Electrical Service Meter Breaker Pedestal (location) 04. USH 10 & 8th Avenue	LS	1.000	1.000				
0622	657.0100	Pedestal Bases	EACH	28.000	24.000		4.000		
0624	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	4.000	4.000				
0626	657.0305	Poles Type 2	EACH	2.000	2.000				
0628	657.0310	Poles Type 3	EACH	2.000	2.000				
0630	657.0345	Poles Type 9	EACH	1.000	1.000				

					1500-37-71	1500-37-72	1500-47-71	4570-12-71	4570-12-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**	**Qty**	**Qty**
0632	657.0350	Poles Type 10	EACH	1.000	1.000				
0634	657.0355	Poles Type 12	EACH	1.000	1.000				
0636	657.0360	Poles Type 13	EACH	10.000	6.000		4.000		
0638	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	21.000	17.000		4.000		
0640	657.0430	Traffic Signal Standards Aluminum 10-FT	EACH	7.000	7.000				
0642	657.0530	Monotube Arms 30-FT	EACH	2.000	2.000				
0644	657.0535	Monotube Arms 35-FT	EACH	2.000	2.000				
0646	657.0545	Monotube Arms 45-FT	EACH	7.000	5.000		2.000		
0648	657.0550	Monotube Arms 50-FT	EACH	1.000			1.000		
0650	657.0555	Monotube Arms 55-FT	EACH	1.000			1.000		
0652	657.0590	Trombone Arms 20-FT	EACH	1.000	1.000				
0654	657.0595	Trombone Arms 25-FT	EACH	3.000	3.000				
0656	657.0815	Luminaire Arms Steel 15-FT	EACH	10.000	6.000		4.000		
0658	658.0173	Traffic Signal Face 3S 12-Inch	EACH	51.000	35.000		16.000		
0660	658.0174	Traffic Signal Face 4S 12-Inch	EACH	18.000	14.000		4.000		
0662	658.0416	Pedestrian Signal Face 16-Inch	EACH	24.000	24.000				
0664	658.0500	Pedestrian Push Buttons	EACH	27.000	27.000				
0666	658.5069	Signal Mounting Hardware (location) 01. USH 10 & CTH R	LS	1.000			1.000		
0668	658.5069	Signal Mounting Hardware (location) 02. USH 10 & 18th Street	LS	1.000	1.000				
0670	658.5069	Signal Mounting Hardware (location) 03. USH 10 & 11th Street	LS	1.000	1.000				
0672	658.5069	Signal Mounting Hardware (location) 04. USH 10 & 8th Avenue	LS	1.000	1.000				
0674	690.0150	Sawing Asphalt	LF	769.000	240.000		100.000	429.000	
0676	690.0250	Sawing Concrete	LF	8,990.000	4,470.000		3,205.000	1,315.000	
0678	715.0415	Incentive Strength Concrete Pavement	DOL	26,431.000	17,986.000			8,445.000	
0680	715.0502	Incentive Strength Concrete Structures	DOL	8,358.000	8,058.000			300.000	
0682	715.0710	Optimized Aggregate Gradation Incentive	DOL	69,223.000	47,208.000			22,015.000	
0684	801.0117	Railroad Flagging Reimbursment	DOL	16,250.000	16,250.000				
0686	999.1500.S	Crack and Damage Survey	LS	1.000	1.000				
0688	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,100.000	2,100.000				
0690	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	5,760.000	5,760.000				
0692	SPV.0035	Special 01. Planting Soil Mix	CY	335.000				335.000	
0694	SPV.0035	Special 02. Removing Buried Cattle Pass, Station 161+35	CY	10.000				10.000	
0696	SPV.0060	Special 01. Inlet Covers Type DW	EACH	1.000				1.000	
0698	SPV.0060	Special 02. Inlet Covers Type BH	EACH	2.000	2.000				
0700	SPV.0060	Special 03. Manhole Covers Bolted	EACH	11.000	2.000			9.000	
0702	SPV.0060	Special 04. Inlet Adjustment Castings	EACH	39.000			39.000		

					1500-37-71	1500-37-72	1500-47-71	4570-12-71	4570-12-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**	**Qty**	**Qty**
0704	SPV.0060	Special 05. Manhole Adjustment Castings	EACH	10.000			10.000		
0706	SPV.0060	Special 06. Water Valve Adjustment Castings	EACH	10.000			10.000		
0708	SPV.0060	Special 07. Apron Endwalls For Culvert Pipe Reinf Conc Horizontal Elliptical 72x113-Inch	EACH	1.000				1.000	
0710	SPV.0060	Special 08. Manholes 10-FT	EACH	12.000	5.000			7.000	
0712	SPV.0060	Special 09. Manholes 9.5x16-FT	EACH	1.000				1.000	
0714	SPV.0060	Special 10. Mini Storm Cleanout	EACH	33.000	27.000			6.000	
0716	SPV.0060	Special 100. Removing Fire Hydrants	EACH	11.000		9.000			2.000
0718	SPV.0060	Special 101. Removing Valve, Valve Manholes, and Valve Boxes	EACH	38.000		34.000			4.000
0720	SPV.0060	Special 102. Gate Valve and Box 6-Inch	EACH	16.000		14.000			2.000
0722	SPV.0060	Special 103. Gate Valve and Box 8-Inch	EACH	28.000		23.000			5.000
0724	SPV.0060	Special 104. Gate Valve and Box 10-Inch	EACH	1.000		1.000			
0726	SPV.0060	Special 105. Gate Valve and Box 12-Inch	EACH	35.000		32.000			3.000
0728	SPV.0060	Special 106. Fire Hydrant	EACH	14.000		12.000			2.000
0730	SPV.0060	Special 107. Water Service Corporation Stop & Curb Stop and Box 1 1/4-Inch	EACH	100.000		87.000			13.000
0732	SPV.0060	Special 108. Connect to Existing Water Main	EACH	40.000		35.000			5.000
0734	SPV.0060	Special 109. Connect to Existing Water Service	EACH	100.000		87.000			13.000
0736	SPV.0060	Special 11. Concrete Cap Over Sanitary Sewer	EACH	1.000				1.000	
0738	SPV.0060	Special 110. Adjusting Water Valve Box	EACH	7.000					7.000
0740	SPV.0060	Special 111. Adjusting Water Service Curb Stop	EACH	11.000					11.000
0742	SPV.0060	Special 112. Water Service Corporation Stop & Curb Stop and Box 1-Inch	EACH	15.000		10.000			5.000
0744	SPV.0060	Special 12. Utility Line Openings	EACH	40.000	20.000			20.000	
0746	SPV.0060	Special 13. Walker's Low Blue Catmint	EACH	228.000				228.000	
0748	SPV.0060	Special 20. Salvage Light Poles and Remove Concrete Bases	EACH	21.000	21.000				
0750	SPV.0060	Special 200. Sanitary Manhole Casting Type J	EACH	61.000		41.000			20.000
0752	SPV.0060	Special 201. Sanitary Manhole Chimney Seal	EACH	3.000					3.000
0754	SPV.0060	Special 202. Remove Existing Sanitary Sewer Manhole	EACH	47.000		37.000			10.000
0756	SPV.0060	Special 203. Reconstruct Manhole Bench	EACH	1.000		1.000			
0758	SPV.0060	Special 204. Reconnect Sanitary Sewer Lateral	EACH	108.000		96.000			12.000
0760	SPV.0060	Special 21. Concrete Bases Type 7 Special	EACH	54.000	28.000			26.000	
0762	SPV.0060	Special 22. Concrete Bases Type 8 Special	EACH	6.000	6.000				
0764	SPV.0060	Special 23. Composite Light Poles 40-FT	EACH	60.000	34.000			26.000	
0766	SPV.0060	Special 24. Luminaire Arms Aluminum 6-FT	EACH	1.000				1.000	
0768	SPV.0060	Special 25. Luminaire Arms Aluminum 8-FT	EACH	66.000	40.000			26.000	
0770	SPV.0060	Special 26. Luminaire Arms Aluminum 15-FT	EACH	23.000	11.000			12.000	
0772	SPV.0060	Special 27. Luminaire LED	EACH	85.000	55.000		4.000	26.000	
0774	SPV.0060	Special 28. Luminaire LED Special	EACH	2.000	2.000				

					1500-37-71	1500-37-72	1500-47-71	4570-12-71	4570-12-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**	**Qty**	**Qty**
0776	SPV.0060	Special 29. Luminaire LED RAB	EACH	13.000				13.000	
0778	SPV.0060	Special 30. Lighting Pull Box	EACH	80.000	47.000			33.000	
0780	SPV.0085	Special 01. Seeding Switchgrass	LB	37.000				37.000	
0782	SPV.0090	Special 01. Concrete Curb and Gutter Integral 18-Inch Type D Special	LF	34,590.000	21,985.000			12,605.000	
0784	SPV.0090	Special 02. Storm Sewer Pipe Concrete Horizontal Elliptical Class HE-III 72x113-Inch	LF	57.000				57.000	
0786	SPV.0090	Special 03. Storm Sewer Pipe PVC 6-Inch	LF	8.000				8.000	
0788	SPV.0090	Special 04. Storm Sewer Pipe PVC 12-Inch	LF	186.000	150.000			36.000	
0790	SPV.0090	Special 05. Mini Storm 6-Inch	LF	6,015.000	4,470.000			1,545.000	
0792	SPV.0090	Special 06. Mini Storm 8-Inch	LF	30.000	30.000				
0794	SPV.0090	Special 07. Televising Sewers	LF	20,425.000	7,724.000	7,231.000		3,891.000	1,579.000
0796	SPV.0090	Special 08. Marking Epoxy 6-Inch	LF	90.000	90.000				
0798	SPV.0090	Special 09. Marking Crosswalk Epoxy Transverse Line 12-Inch	LF	3,700.000	2,710.000		230.000	760.000	
0800	SPV.0090	Special 10. Removing and Reinstall Chain Link Fence	LF	30.000	30.000				
0802	SPV.0090	Special 100. Watermain Pipe 6-Inch	LF	330.000		307.000			23.000
0804	SPV.0090	Special 101. Watermain Pipe 8-Inch	LF	2,161.000		1,913.000			248.000
0806	SPV.0090	Special 102. Watermain Pipe 10-Inch	LF	121.000		121.000			
0808	SPV.0090	Special 103. Watermain Pipe 12-Inch	LF	8,550.000		7,195.000			1,355.000
0810	SPV.0090	Special 104. Watermain Pipe 24-Inch	LF	33.000		33.000			
0812	SPV.0090	Special 105. Water Service Pipe 1 1/4-Inch	LF	4,416.000		3,864.000			552.000
0814	SPV.0090	Special 106. Water Service Pipe 1-Inch	LF	700.000		500.000			200.000
0816	SPV.0090	Special 11. Fence Chain Link Polymer-Coated 6-Ft	LF	500.000	260.000		115.000	125.000	
0818	SPV.0090	Special 12. Gates Chain Link Polymer-Coated 10-Ft Wide	LF	20.000	10.000		10.000		
0820	SPV.0090	Special 13. Steel Casing Pipe 42-Inch	LF	72.000	72.000				
0822	SPV.0090	Special 14. Marking Diagonal Epoxy 6-Inch	LF	140.000	140.000				
0824	SPV.0090	Special 15. Marking Line Yield Line Epoxy 18-Inch	LF	90.000				90.000	
0826	SPV.0090	Special 200. Furnishing and Installing Sanitary Sewer Pipe 8-inch	LF	1,518.000		754.000			764.000
0828	SPV.0090	Special 201. Furnishing and Installing Sanitary Sewer Pipe 10-Inch	LF	649.000		649.000			
0830	SPV.0090	Special 202. Furnishing and Installing Sanitary Sewer Pipe 12-Inch	LF	193.000		193.000			
0832	SPV.0090	Special 203. Furnishing and Installing Sanitary Sewer Pipe 21-Inch	LF	598.000		598.000			
0834	SPV.0090	Special 204. Furnishing and Relaying Sanitary Sewer Pipe 8-inch	LF	644.000		644.000			
0836	SPV.0090	Special 205. Furnishing and Relaying Sanitary Sewer Pipe 10-inch	LF	29.000		29.000			
0838	SPV.0090	Special 206. Furnishing and Relaying Sanitary Sewer	LF	2,128.000		2,128.000			

					1500-37-71	1500-37-72	1500-47-71	4570-12-71	4570-12-72
Line	Item	Item Description	Unit	Total	Qty	Qty	Qty	Qty	Qty
		Pipe 12-inch							
0840	SPV.0090	Special 207. Furnishing and Relaying Sanitary Sewer Pipe 15-inch	LF	50.000		50.000			
0842	SPV.0090	Special 208. Furnishing and Relaying Sanitary Sewer Pipe 18-inch	LF	41.000		41.000			
0844	SPV.0090	Special 209. Furnishing and Relaying Sanitary Sewer Pipe 24-inch	LF	55.000					55.000
0846	SPV.0090	Special 210. Removing Existing Sanitary Sewer	LF	1,268.000		933.000			335.000
0848	SPV.0090	Special 211. Sanitary Lateral 6-Inch	LF	3,933.000		3,623.000			310.000
0850	SPV.0090	Special 212. Sanitary Lateral Risers	LF	186.000		186.000			
0852	SPV.0090	Special 213. Abandoning Sanitary Sewer	LF	1,785.000		1,580.000			205.000
0854	SPV.0105	Special 01. Grading and Shaping Emergency Vehicle Railroad Crossing	LS	1.000	1.000				
0856	SPV.0105	Special 02. Construction Staking Emergency Vehicle Railroad Crossing	LS	1.000	1.000				
0858	SPV.0105	Special 03. Construction Staking Trees and Landscaping Project 1500-37-71	LS	1.000	1.000				
0860	SPV.0105	Special 04. Construction Staking Trees and Landscaping Project 4570-12-71	LS	1.000				1.000	
0862	SPV.0105	Special 05. Preservation of Existing Monuments Project 1500-37-71	LS	1.000	1.000				
0864	SPV.0105	Special 06. Preservation of Existing Monuments Project 1500-47-71	LS	1.000			1.000		
0866	SPV.0105	Special 07. Preservation of Existing Monuments Project 4570-12-71	LS	1.000				1.000	
0868	SPV.0105	Special 08. Verify and Restoring of Existing Monuments Project 1500-37-71	LS	1.000	1.000				
0870	SPV.0105	Special 09. Verify and Restoring of Existing Monuments Project 1500-47-71	LS	1.000			1.000		
0872	SPV.0105	Special 10. Verify and Restoring of Existing Monuments Project 4570-12-71	LS	1.000				1.000	
0874	SPV.0105	Special 100. Trench Backfill Testing, Project 1500-37-72	LS	1.000		1.000			
0876	SPV.0105	Special 101. Trench Backfill Testing, Project 4570-12-72	LS	1.000					1.000
0878	SPV.0105	Special 102. Abandoning Water Main and Appurtenances, Project 1500-37-72	LS	1.000		1.000			
0880	SPV.0105	Special 103. Abandoning Water Main and Appurtenances, Project 4570-12-72	LS	1.000					1.000
0882	SPV.0105	Special 11. Rectangular Rapid Flashing Beacon (RRFB) System	LS	1.000	1.000				
0884	SPV.0105	Special 12. Salvage & Reinstall Rectangular Rapid Flashing Beacon (RRFB) System	LS	1.000	1.000				
0886	SPV.0105	Special 13. Waterway Isolation for Box Culvert B-36-0232	LS	1.000	1.000				

					1500-37-71	1500-37-72	1500-47-71	4570-12-71	4570-12-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**	**Qty**	**Qty**
0888	SPV.0105	Special 14. Grading and Shaping Outfall Dissipator	LS	1.000				1.000	
0890	SPV.0105	Special 61. Remove Traffic Signals USH 10 & CTH R	LS	1.000			1.000		
0892	SPV.0105	Special 62. Remove Traffic Signals USH 10 & 18th Street	LS	1.000	1.000				
0894	SPV.0105	Special 63. Remove Traffic Signals USH 10 & 11th Street	LS	1.000	1.000				
0896	SPV.0105	Special 64. Remove Traffic Signals USH 10 & 8th Street	LS	1.000	1.000				
0898	SPV.0105	Special 65. Remove Loop Detector Wire and Lead-In Cable USH 10 & CTH R	LS	1.000			1.000		
0900	SPV.0105	Special 66. Remove Loop Detector Wire and Lead-In Cable USH 10 & 18th Street	LS	1.000	1.000				
0902	SPV.0105	Special 67. Remove Loop Detector Wire and Lead-In Cable USH 10 & 11th Street	LS	1.000	1.000				
0904	SPV.0105	Special 68. Remove Loop Detector Wire and Lead-In Cable USH 10 & 8th Street	LS	1.000	1.000				
0906	SPV.0105	Special 69. Traffic Signal Cabinet & Controller Fully Actuated 8 Phase USH 10 & CTH R	LS	1.000			1.000		
0908	SPV.0105	Special 70. Traffic Signal Cabinet & Controller Fully Actuated 8 Phase USH 10 & 18th Str	LS	1.000	1.000				
0910	SPV.0105	Special 71. Traffic Signal Cabinet & Controller Fully Actuated 8 Phase USH 10 & 11th Str	LS	1.000	1.000				
0912	SPV.0105	Special 72. Traffic Signal Cabinet & Controller Fully Actuated 8 Phase USH 10 & 8th St	LS	1.000	1.000				
0914	SPV.0165	Special 01. Remove and Salvage Brick Pavers	SF	165.000	165.000				
0916	SPV.0165	Special 02. Install Salvaged Brick Pavers	SF	165.000	165.000				
0918	SPV.0165	Special 100. Trench Insulation 2-Inch	SF	1,344.000		1,152.000			192.000
0920	SPV.0180	Special 01. Salvaging and Replacing Concrete Riprap	SY	60.000				60.000	
0922	SPV.0180	Special 02. Shredded Hardwood Bark Mulch	SY	400.000				400.000	
0924	SPV.0195	Special 200. Imported Trench Backfill	TON	2,500.000		2,100.000			400.000
0926	SPV.0195	Special 201. Trench Stabilization	TON	460.000		400.000			60.000
0928	SPV.0200	Special 200. Sanitary Manhole 4-Foot	VF	580.900		458.600			122.300
0930	SPV.0200	Special 201. Reconstruct Sanitary Manhole	VF	10.100					10.100
0932	SPV.0200	Special 202. Drop Manhole	VF	119.300		98.000			21.300

CLEARING AND GRUBBING

ID	STATION	TO	STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA	201.0120 CLEARING ID	201.0220 GRUBBING ID
PROJECT 1500-47-71								
	40+00	-	70+00	USH 10, MEDIAN	-	-	36	36
	69+00	-	70+00	USH 10, EB	1	1	-	-
	69+00	-	70+00	USH 10, WB	1	1	-	-
	UNDISTRIBUTED				-	-	14	14
	PROJECT TOTALS				2	2	50	50
PROJECT 1500-37-71								
	70+00	-	72+00	USH 10, EB	2	2	-	-
	70+00	-	72+00	USH 10, WB	2	2	-	-
	72+00	-	82+00	USH 10, EB	-	-	30	30
	84+50	-	90+00	USH 10, EB	-	-	75	75
	90+00	-	93+00	USH 10, EB	3	3	-	-
	93+50	-	99+35	USH 10, MEDIAN	-	-	12	12
	93+50	-	99+35	USH 10, EB	-	-	-	18
	93+50	-	99+35	USH 10, WB	-	-	24	24
	99+35	-	103+00	USH 10, EB	-	-	60	60
	99+35	-	103+00	USH 10, WB	-	-	102	102
	103+00	-	106+50	USH 10, EB	-	-	24	24
	103+00	-	106+50	USH 10, WB	-	-	84	84
	103+00	-	106+50	USH 10, MEDIAN	-	-	12	12
	106+50	-	110+00	USH 10, EB	-	-	54	54
	106+50	-	110+00	USH 10, WB	-	-	62	62
	106+50	-	110+00	USH 10, MEDIAN	-	-	12	12
	110+00	-	118+25	USH 10, EB	-	-	238	238
	110+00	-	118+25	USH 10, WB	-	-	127	181
	110+00	-	118+25	USH 10, MEDIAN	-	-	50	50
	118+25	-	122+00	USH 10, EB	-	-	138	168
	118+25	-	122+00	USH 10, WB	-	-	84	84
	122+00	-	125+50	USH 10, EB	-	-	42	42
	122+00	-	125+50	USH 10, WB	-	-	48	48
	122+00	-	125+50	USH 10, MEDIAN	-	-	24	24
	125+50	-	128+15	USH 10, EB	-	-	78	78
	125+50	-	128+15	USH 10, WB	-	-	30	30
	125+50	-	128+15	USH 10, MEDIAN	-	-	32	32
	128+15	-	131+00	USH 10, EB	-	-	84	84
	128+15	-	131+00	USH 10, WB	-	-	60	60
	128+15	-	131+00	USH 10, MEDIAN	-	-	12	12
	131+00	-	133+75	USH 10, EB	-	-	78	78
	131+00	-	133+75	USH 10, WB	-	-	36	36
	133+75	-	136+50	USH 10, EB	-	-	96	96
	136+50	-	141+50	USH 10, EB	-	-	134	134
	136+50	-	141+50	USH 10, WB	-	-	180	192
	136+50	-	141+50	USH 10, MEDIAN	-	-	6	6
	141+50	-	145+25	USH 10, EB	-	-	18	18
	141+50	-	145+25	USH 10, WB	-	-	120	120
	141+50	-	145+25	USH 10, MEDIAN	-	-	6	6
	145+25	-	148+35	USH 10, WB	-	-	114	114

CLEARING AND GRUBBING (CONTINUED)

ID	STATION	TO	STATION	LOCATION	201.0105 CLEARING STA	201.0205 GRUBBING STA	201.0120 CLEARING ID	201.0220 GRUBBING ID
PROJECT 1500-37-71								
	145+25	-	148+35	USH 10, MEDIAN	-	-	6	6
	148+35	-	152+25	USH 10, EB	-	-	60	60
	148+35	-	152+25	USH 10, WB	-	-	54	54
	148+35	-	152+25	USH 10, MEDIAN	-	-	6	6
	10+49	-	10+98	N. 17TH ST	-	-	48	48
	9+35	-	9+75	N. 15TH ST	-	-	24	24
	9+35	-	9+75	N. 13TH ST	-	-	24	24
	10+25	-	12+11	N. MENASHA AVE	-	-	36	36
	8+15	-	9+75	N. 12TH ST	-	-	60	60
	10+49	-	10+85	N. 12TH ST	-	-	24	24
	10+49	-	12+70	N. 9TH ST	-	-	54	54
	10+50	-	12+90	N. 8TH ST	-	-	42	42
				EMERGENCY RAILROAD CROSSING	1	1	-	-
	UNDISTRIBUTED				-	-	146	182
	PROJECT TOTALS				8	8	2,970	3,120
PROJECT 4570-12-71								
	152+25	-	155+90	STH 42, EB	-	-	54	54
	152+25	-	155+90	STH 42, WB	-	-	60	60
	152+25	-	155+90	STH 42, MEDIAN	-	-	40	40
	155+90	-	159+90	STH 42, EB	-	-	114	114
	155+90	-	159+90	STH 42, WB	-	-	72	87
	155+90	-	159+90	STH 42, MEDIAN	-	-	45	45
	159+90	-	163+50	STH 42, EB	-	-	36	36
	159+90	-	163+50	STH 42, WB	-	-	6	6
	159+90	-	163+50	STH 42, MEDIAN	-	-	24	24
	163+50	-	191+00	STH 42, EB	-	-	288	318
	163+50	-	191+00	STH 42, WB	-	-	270	300
	163+50	-	191+00	STH 42, MEDIAN	-	-	246	246
	10+49	-	10+85	LINCOLN BLVD, SB	-	-	12	12
	10+49	-	11+00	N. 6TH ST	-	-	12	12
	10+75	-	14+00	MARITIME DR	-	-	36	36
	UNDISTRIBUTED				0	0	65	100
	PROJECT TOTALS				0	0	1,380	1,490
	TOTALS				10	10	4,400	4,660

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

REMOVING PAVEMENT

ID	CATEGORY	STATION	TO	STATION	LOCATION	204.0100 SY	REMARKS
PROJECT 1500-47-71							
	0010						
		38+00	-	70+00	USH 10, EB	75	ISLAND NOSE
		38+00	-	70+00	USH 10, EB, RT	216	PE
		38+00	-	70+00	USH 10, WB, LT	259	PE
		49+62	-	50+44	USH 10, LT	150	MOBILE PARK ENTRANCE
		PROJECT TOTAL				700	
PROJECT 1500-37-71							
	0010						
		70+00	-	82+03	USH 10, EB	3,826	
		70+00	-	82+03	USH 10, WB	3,585	
		84+63	-	93+50	USH 10, EB	2,820	
		84+63	-	93+50	USH 10, WB	2,613	
		93+50	-	99+35	USH 10, EB	1,738	
		93+50	-	99+35	USH 10, WB	1,978	
		99+35	-	103+00	USH 10, EB	1,273	
		99+35	-	103+00	USH 10, WB	1,176	
		103+00	-	106+50	USH 10, EB	1,094	
		103+00	-	106+50	USH 10, WB	1,247	
		106+50	-	110+00	USH 10, EB	1,197	
		106+50	-	110+00	USH 10, WB	1,203	
		110+00	-	118+25	USH 10, EB	2,634	
		110+00	-	118+25	USH 10, WB	2,459	
		118+25	-	122+00	USH 10, EB	1,150	
		118+25	-	122+00	USH 10, WB	1,544	
		122+00	-	125+50	USH 10, EB	1,106	
		122+00	-	125+50	USH 10, WB	1,118	
		125+50	-	128+15	USH 10, EB	865	
		125+50	-	128+15	USH 10, WB	861	
		128+15	-	131+00	USH 10, EB	925	
		128+15	-	131+00	USH 10, WB	920	
		131+00	-	133+75	USH 10, EB	888	
		131+00	-	133+75	USH 10, WB	883	
		133+75	-	136+50	USH 10, EB	1,205	
		133+75	-	136+50	USH 10, WB	886	
		136+50	-	141+50	USH 10, EB	1,842	
		136+50	-	141+50	USH 10, WB	1,701	
		141+50	-	145+25	USH 10, EB	1,152	
		141+50	-	145+25	USH 10, WB	1,562	
		145+25	-	148+35	USH 10, EB	1,078	
		145+25	-	148+35	USH 10, WB	1,175	
		148+35	-	152+25	USH 10, EB	1,571	
		148+35	-	152+25	USH 10, WB	1,359	
		10+25	-	10+85	FLEETWOOD DR	445	
		9+30	-	9+75	N. 23RD ST	196	
		10+50	-	10+95	N. 23RD ST	280	
		9+10	-	9+74	MENCHL DR	275	
		9+35	-	9+75	N. 21ST ST	194	
		10+49	-	11+00	N. 21ST ST	237	

REMOVING PAVEMENT (CONTINUED)

ID		STATION	TO	STATION	LOCATION	204.0100 SY	REMARKS
PROJECT 1500-37-71							
	0010						
		9+40	-	9+75	N. 20TH ST	129	
		10+49	-	10+85	PARK ROW BLVD, SB	129	
		10+25	-	10+60	PARK ROW BLVD, NB	128	
		10+25	-	10+65	ELM ST	146	
		9+00	-	9+75	N. 18TH ST	717	INCLUDES ISLANDS
		10+49	-	10+90	N. 18TH ST	286	
		9+30	-	9+75	N. 17TH ST	186	
		10+49	-	10+85	N. 17TH ST	165	
		9+24	-	9+75	N. 16TH ST	176	
		10+49	-	10+85	N. 16TH ST	151	
		9+35	-	9+75	N. 15TH ST	160	
		10+49	-	11+00	N. 15TH ST	199	
		9+45	-	9+75	N. 14TH ST	182	
		10+49	-	10+85	N. 14TH ST	180	
		9+23	-	9+75	N. 13TH ST	177	
		8+15	-	9+75	N. 12TH ST	840	INCLUDES ISLAND
		10+49	-	10+85	N. 12TH ST	152	
		8+85	-	9+65	S. MENASHA AVE	415	
		10+25	-	12+10	N. MENASHA AVE	1,239	
		9+35	-	9+75	N. 11TH ST	188	
		10+49	-	11+00	N. 11TH ST	343	
		9+35	-	9+75	N. 10TH ST	189	
		9+00	-	9+75	N. 9TH ST	294	
		10+49	-	12+70	N. 9TH ST	786	
		8+50	-	9+75	N. 8TH ST	579	
		10+50	-	11+50	N. 8TH ST	627	INCLUDES ISLAND
		70+00	-	82+03	USH 10, EB	7	PE
		93+50	-	99+35	USH 10, EB	69	PE
		93+50	-	99+35	USH 10, WB	137	PE
		99+35	-	103+00	USH 10, WB	19	PE
		103+00	-	106+50	USH 10, EB	10	PE
		103+00	-	106+50	USH 10, WB	32	PE
		106+50	-	110+00	USH 10, EB	59	PE
		106+50	-	110+00	USH 10, WB	16	PE
		110+00	-	118+25	USH 10, EB	191	PE
		118+25	-	122+00	USH 10, EB	44	PE
		118+25	-	122+00	USH 10, WB	56	PE
		122+00	-	125+50	USH 10, EB	50	PE
		122+00	-	125+50	USH 10, WB	75	PE
		125+50	-	128+15	USH 10, EB	23	PE
		125+50	-	128+15	USH 10, WB	24	PE
		128+15	-	131+00	USH 10, EB	48	PE
		131+00	-	133+75	USH 10, EB	35	PE
		131+00	-	133+75	USH 10, WB	32	PE
		133+75	-	136+50	USH 10, EB	12	PE

NOTE: SIDEWALK THROUGH DRIVEWAYS PAID FOR AS REMOVING SIDEWALK

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

REMOVING PAVEMENT (CONTINUED)

ID	STATION	TO	STATION	LOCATION	204.0100 SY	REMARKS
PROJECT 1500-37-71						
0010						
	136+50	-	141+50	USH 10, EB	77	PE
	136+50	-	141+50	USH 10, WB	96	PE
	141+50	-	145+25	USH 10, EB	36	PE
	148+35	-	152+25	USH 10, EB	22	PE
	148+35	-	152+25	USH 10, WB	25	PE
	10+49	-	11+00	N. 21ST ST	25	PE
	9+00	-	9+75	N. 18TH ST	6	PE
	8+15	-	9+75	N. 12TH ST	60	PE
	8+85	-	9+65	S. MENASHA AVE	30	PE
	10+49	-	12+70	N. 9TH ST	46	PE
	8+50	-	9+75	N. 8TH ST	47	PE
	10+50	-	12+90	N. 8TH ST	12	PE
	CATEGORY 0010 TOTALS				64,445	
PROJECT 1500-37-71						
0020						
	ENTIRE PROJECT			USH 10	490	REMOVALS FOR COLORED CROSSWALKS
	CATEGORY 0020 TOTALS				490	
	PROJECT TOTAL				64,935	
PROJECT 4570-12-71						
0010						
	152+25	-	155+90	STH 42, EB	1,130	PE
	152+25	-	155+90	STH 42, WB	1,130	PE
	155+90	-	159+90	STH 42, EB	1,290	PE
	155+90	-	159+90	STH 42, WB	1,290	PE
	159+90	-	163+50	STH 42, EB	1,130	PE
	159+90	-	163+50	STH 42, WB	1,130	PE
	163+50	-	185+00	STH 42, EB	6,530	PE
	163+50	-	185+00	STH 42, WB	6,510	PE
	185+00	-	195+60	STH 42, EB	3,620	PE
	185+00	-	197+00	STH 42, WB	4,320	PE
	9+10	-	9+75	LINCOLN BLVD (WEST)	205	PE
	10+49	-	10+85	LINCOLN BLVD (WEST)	120	PE
	9+10	-	9+75	LINCOLN BLVD (EAST)	205	PE
	10+49	-	10+85	LINCOLN BLVD (EAST)	120	PE
	9+25	-	9+75	N. 6TH ST	190	PE
	10+49	-	11+00	N. 6TH ST	210	PE
	10+50	-	10+85	N. 5TH ST	170	PE
	10+75	-	13+75	MARITIME DR, NB	1,220	PE
	10+75	-	13+75	MARITIME DR, SB	1,231	PE
	152+25	-	155+90	STH 42, EB	100	PE
	152+25	-	155+90	STH 42, WB	22	PE
	155+90	-	159+90	STH 42, EB	63	PE
	155+90	-	159+90	STH 42, WB	11	PE
	159+90	-	163+50	STH 42, EB	106	PE
	163+50	-	185+00	STH 42, EB	127	PE

REMOVING PAVEMENT (CONTINUED)

ID	STATION	TO	STATION	LOCATION	204.0100 SY	REMARKS
PROJECT 4570-12-71						
0010						
	163+50	-	185+00	STH 42, WB	113	PE
	9+25	-	9+75	N. 6TH ST	62	PE
	PROJECT TOTAL				32,355	
	TOTAL				97,990	

NOTE: SIDEWALK THROUGH DRIVEWAYS PAID FOR AS REMOVING SIDEWALK

REMOVING PAVEMENT BUTT JOINTS

ID	STATION	TO	STATION	LOCATION	204.0105 SY	REMARKS
PROJECT 1500-47-71						
	38+00	-	38+35	USH 10, EB	158	
	38+00	-	38+35	USH 10, WB	112	
	43+70	-	43+90	USH 10, EB	47	RT BYPASS LANE
	69+65	-	70+00	USH 10, EB	97	
	69+65	-	70+00	USH 10, WB	87	
	8+95	-	9+30	CTH R, NB	141	
	8+95	-	9+30	CTH R, SB	98	
	11+05	-	11+40	CTH R, NB	100	
	11+05	-	11+40	CTH R, SB	141	
	9+55	-	9+75	40TH ST	78	
	9+52	-	9+77	GLENVIEW DR	91	
	9+52	-	9+72	W CRESCENT DR	86	
	9+47	-	9+67	E CRESCENT DR	89	
	TOTAL				1,325	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

REMOVING ASPHALTIC SURFACE

ID	STATION	TO	STATION	LOCATION	204.0110 SY	REMARKS
PROJECT 1500-47-71						
	38+48	-	38+56	USH 10, MEDIAN	7	ISLAND NOSE
	39+65	-	39+83	USH 10, LT	20	ISLAND
	39+88	-	39+91	USH 10, MEDIAN	2	ISLAND NOSE
	9+22	-	9+50	CTH R, MEDIAN	27	ISLAND / ISLAND NOSE
	10+78	-	11+10	CTH R, MEDIAN	29	ISLAND / ISLAND NOSE
	PROJECT TOTAL				85	
PROJECT 1500-37-71						
	11+50	-	12+90	N. 8TH ST	590	
	PROJECT TOTAL				590	
PROJECT 4570-12-71						
	13+10	-	13+21	MARITIME DRIVE, RT	16	
	192+26	-	192+52	STH 42, EB, RT	25	
	193+15	-	194+90	STH 42, EB, RT	44	
	PROJECT TOTAL				85	
	TOTAL				760	

REMOVING ASPHALTIC BUTT JOINTS

ID	STATION	TO	STATION	LOCATION	204.0115 SY
PROJECT 1500-47-71					
	38+00	-	38+35	USH 10, EB	158
	38+00	-	38+35	USH 10, WB	112
	TOTAL				270

REMOVING CURB AND GUTTER

ID	STATION	TO	STATION	LOCATION	204.0130 REMOVING CURB LF	204.0150 REMOVING CURB AND GUTTER LF	REMARKS
PROJECT 1500-47-71							
	38+00	-	70+00	USH 10, EB	-	68	
	38+00	-	70+00	USH 10, WB	-	234	
	8+95		9+75	CTH R	-	32	
	10+75		11+40	CTH R	-	58	
	9+55	-	9+75	40TH ST	-	23	
	9+52	-	9+75	GLENVIEW DR	-	71	
	9+52	-	9+75	W CRESCENT DR	-	32	
	9+47	-	9+75	E CRESCENT DR	-	32	
	PROJECT TOTAL				0	550	
PROJECT 1500-37-71							
	119+11			USH 10, WB, LT	10	-	PE
	12+92	-	13+18	FLEETWOOD DR, LT	-	26	PE
	10+59	-	10+65	ELM ST, LT	-	7	
	10+59	-	10+65	ELM ST, RT	-	8	
	11+50	-	11+60	N. 8TH ST, RT	-	10	
	12+50	-	12+90	N. 8TH ST, LT	-	39	
	12+55	-	12+90	N. 8TH ST, RT	-	35	
	PROJECT TOTAL				10	125	
PROJECT 4570-12-71							
	153+80			STH 42, EB, RT	8	-	PE
	165+63			STH 42, EB, RT	12	-	PE
	183+88	-	184+03	STH 42, EB	-	30	CE
	184+43	-	184+62	STH 42, EB	-	35	CE
	PROJECT TOTAL				20	65	
	TOTAL				30	740	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

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REMOVING CONCRETE SIDEWALK

ID	STATION	TO	STATION	LOCATION	204.0155 SY	REMARKS
PROJECT 1500-47-71						
	9+55	-	9+75	40TH ST, LT	10	
	9+55	-	9+75	40TH ST, RT	20	
	49+62	-	49+83	USH 10, WB	20	
	50+22	-	50+44	USH 10, WB	15	
	53+62	-	53+80	USH 10, WB	15	
	9+52	-	9+75	GLENVIEW DR, LT	10	
	9+52	-	9+75	GLENVIEW DR, RT	20	
	9+52	-	9+75	W CRESCENT DR, LT	10	
	9+52	-	9+75	W CRESCENT DR, RT	10	
	9+47	-	9+75	E CRESCENT DR, LT	10	
	9+47	-	9+75	E CRESCENT DR, RT	10	
	PROJECT TOTAL				150	
PROJECT 1500-37-71						
	70+00	-	82+03	USH 10, RT	772	
	70+00	-	71+68	USH 10, WB	95	
	73+06	-	82+03	USH 10, WB	596	
	77+50	-	82+03	USH 10, MEDIAN	287	
	84+63	-	93+11	USH 10, EB	592	
	84+63	-	92+87	USH 10, WB	582	
	84+63	-	93+09	USH 10, MEDIAN	610	
	93+94	-	102+63	USH 10, WB	504	
	93+97	-	99+00	USH 10, RT	288	
	99+57	-	102+59	USH 10, RT	163	
	103+43	-	106+15	USH 10, RT	148	
	103+44	-	106+15	USH 10, WB	155	
	107+00	-	117+08	USH 10, RT	599	
	106+66	-	107+41	USH 10, WB	41	
	107+93	-	109+57	USH 10, WB	104	
	110+35	-	117+73	USH 10, WB	402	
	118+71	-	121+72	USH 10, WB	186	
	119+21	-	121+72	USH 10, RT	152	
	122+42	-	125+12	USH 10, WB	158	
	122+45	-	125+13	USH 10, RT	167	
	125+91	-	127+75	USH 10, WB	118	
	125+91	-	127+78	USH 10, RT	117	
	128+54	-	130+53	USH 10, WB	119	
	128+54	-	130+61	USH 10, RT	121	
	131+35	-	133+38	USH 10, RT	119	
	131+36	-	134+77	USH 10, WB	268	
	134+13	-	135+67	USH 10, RT	88	
	136+82		141+12	USH 10, RT	246	
	136+91	-	141+00	USH 10, WB	262	
	141+91	-	144+77	USH 10, RT	178	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

REMOVING CONCRETE SIDEWALK (CONTINUED)

ID	STATION	TO	STATION	LOCATION	204.0155 SY	REMARKS
PROJECT 1500-37-71						
	142+05	-	147+96	USH 10, WB	336	
	145+63	-	147+93	USH 10, RT	140	
	148+73	-	151+15	USH 10, RT	120	
	148+74	-	150+51	USH 10, WB	100	
	151+94	-	152+25	USH 10, WB	15	
	152+06	-	152+25	USH 10, RT	10	
	10+27	-	10+75	FLEETWOOD DR, LT	47	
	10+27	-	10+71	FLEETWOOD DR, RT	33	
	12+95	-	13+15	FLEETWOOD DR, LT	7	
	9+40	-	9+75	N. 23RD ST, LT	27	
	9+40	-	9+68	N. 23RD ST, RT	22	
	10+51	-	10+95	N. 23RD ST, LT	42	
	10+51	-	10+95	N. 23RD ST, RT	33	
	9+35	-	9+69	N. 21ST ST, LT	23	
	9+35	-	9+69	N. 21ST ST, RT	27	
	10+55	-	11+00	N. 21ST ST, LT	26	
	10+55	-	11+00	N. 21ST ST, RT	36	
	9+40	-	9+70	N. 20TH ST, LT	23	PARK ROW BLVD, SB ALIGNMENT
	9+40	-	9+70	N. 20TH ST, RT	23	PARK ROW BLVD, SB ALIGNMENT
	10+54	-	10+85	PARK ROW BLVD, SB, LT	22	
	10+29	-	10+60	PARK ROW BLVD, NB, RT	25	
	10+31	-	10+65	ELM ST, LT	24	
	10+31	-	10+61	ELM ST, RT	24	
	9+00	-	9+73	N. 18TH ST, LT	83	
	9+00	-	9+73	N. 18TH ST, RT	76	
	10+51	-	10+90	N. 18TH ST, LT	32	
	10+51	-	10+90	N. 18TH ST, RT	33	
	9+30	-	9+73	N. 17TH ST, LT	29	
	9+30	-	9+71	N. 17TH ST, RT	27	
	10+51	-	10+85	N. 17TH ST, LT	22	
	10+51	-	10+85	N. 17TH ST, RT	22	
	9+35	-	9+71	N. 16TH ST, LT	28	
	9+35	-	9+71	N. 16TH ST, RT	28	
	10+51	-	10+85	N. 16TH ST, LT	26	
	10+51	-	10+85	N. 16TH ST, RT	24	
	9+35	-	9+73	N. 15TH ST, LT	25	
	9+35	-	9+73	N. 15TH ST, RT	29	
	10+52	-	11+00	N. 15TH ST, LT	33	
	10+52	-	11+00	N. 15TH ST, RT	33	
	9+30	-	9+71	N. 14TH ST, LT	26	
	9+30	-	9+71	N. 14TH ST, RT	29	
	10+52	-	10+85	N. 14TH ST, LT	29	
	10+52	-	10+85	N. 14TH ST, RT	23	
	9+35	-	9+72	N. 13TH ST, LT	29	
	9+35	-	9+72	N. 13TH ST, RT	24	
	8+15	-	9+75	N. 12TH ST, LT	120	
	8+15	-	9+75	N. 12TH ST, RT	63	
	10+52	-	10+85	N. 12TH ST, LT	31	
	10+54	-	10+85	N. 12TH ST, RT	23	
	8+85	-	9+60	S. MENASHA AVE, LT	51	

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REMOVING CONCRETE SIDEWALK (CONTINUED)

ID	STATION	TO	STATION	LOCATION	204.0155 SY	REMARKS
PROJECT 1500-37-71						
	8+85	-	9+99	S. MENASHA AVE, RT	79	
	10+25	-	12+10	N. MENASHA AVE, LT	105	
	10+25	-	12+10	N. MENASHA AVE, RT	115	
	9+35	-	9+72	N. 11TH ST, LT	28	
	9+35	-	9+74	N. 11TH ST, RT	28	
	10+50	-	11+00	N. 11TH ST, LT	45	
	10+50	-	11+00	N. 11TH ST, RT	45	
	9+35	-	9+70	N. 10TH ST, LT	28	
	9+35	-	9+70	N. 10TH ST, RT	28	
	9+00	-	9+71	N. 9TH ST, LT	44	
	9+00	-	9+72	N. 9TH ST, RT	39	
	10+50	-	11+25	N. 9TH ST, LT	50	
	10+50	-	11+25	N. 9TH ST, RT	43	
	8+50	-	9+74	N. 8TH ST, LT	79	
	8+50	-	9+69	N. 8TH ST, RT	88	
	10+55	-	11+50	N. 8TH ST, LT	91	
	10+55	-	11+50	N. 8TH ST, RT	55	
	PROJECT TOTAL				11,410	
PROJECT 4570-12-71						
	152+25	-	155+21	STH 42, EB	170	
	152+25	-	155+25	STH 42, WB	180	
	155+75	-	156+08	STH 42, EB	20	
	155+75	-	156+08	STH 42, WB	20	
	156+59	-	159+37	STH 42, EB	154	
	156+60	-	159+45	STH 42, WB	160	
	160+25	-	163+14	STH 42, WB	160	
	160+26	-	163+50	STH 42, EB	180	
	163+50	-	183+98	STH 42, EB	1,101	
	163+79	-	183+95	STH 42, WB	1,100	
	184+48	-	187+55	STH 42, EB	182	
	9+10	-	9+70	LINCOLN BLVD, SB, LT	48	
	10+52	-	10+85	LINCOLN BLVD, SB, LT	27	
	9+10	-	9+70	LINCOLN BLVD, NB, RT	48	
	10+52	-	10+85	LINCOLN BLVD, NB, RT	26	
	9+35	-	9+73	N. 6TH ST, LT	34	
	9+35	-	9+73	N. 6TH ST, RT	28	
	10+50	-	11+00	N. 6TH ST, LT	45	
	10+50	-	11+00	N. 6TH ST, RT	34	
	10+27	-	10+60	N. 5TH ST, LT	21	
	10+90	-	13+45	MARITIME DR, LT	162	
	PROJECT TOTAL				3,900	
	TOTAL				15,460	

REMOVING FENCE

ID	STATION	TO	STATION	LOCATION	204.0170 LF
PROJECT 1500-47-71					
	69+20	-	70+00	USH 10, EB	80
	69+50	-	70+00	USH 10, WB	50
	PROJECT TOTAL				130
PROJECT 1500-37-71					
	70+00	-	71+00	USH 10, EB	100
	70+00	-	71+50	USH 10, WB	150
	PROJECT TOTAL				250
	TOTALS				380

REMOVING SURFACE DRAINS

ID	STATION	TO	STATION	LOCATION	204.0190 EACH
PROJECT 1500-37-71					
	70+75	-	71+50	USH 10, WB	1
	TOTAL				1

REMOVING RAILROAD TRACK

ID	STATION	LOCATION	204.0200 LF
PROJECT 1500-37-71			
	100+40	USH 10, EB & WB	120
	TOTAL		120

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

REMOVING AND ABANDONING STORM SEWER
(NOTE: LOCATION PROVIDED TYPICALLY REFERS TO UPSTREAM STRUCTURE OR REMOVAL LIMIT)

ID	STATION	OFFSET (FT)		LOCATION	204.0210 REMOVING MANHOLES EA	204.0220 REMOVING INLETS EA	204.0245.01 REMOVING STORM SEWER 12-INCH OR LESS LF	204.0245.02 REMOVING STORM SEWER 15-INCH LF	204.0245.03 REMOVING STORM SEWER 18-INCH LF	204.0245.04 REMOVING STORM SEWER 21-INCH LF	204.0245.05 REMOVING STORM SEWER 24-INCH LF	204.0245.06 REMOVING STORM SEWER 36-INCH LT	204.0245.07 REMOVING STORM SEWER 42-INCH LF	204.0245.08 REMOVING STORM SEWER 48-INCH LF	204.0245.09 REMOVING STORM SEWER 60-INCH LF	204.0245.10 REMOVING STORM SEWER 72-Inch LF	204.0250 ABANDONING MANHOLES EA	204.0280 SEALING PIPES EA	204.0291.S* ABANDONING SEWER CY
PROJECT 1500-47-71																			
	45+01	55.5	LT	USH 10	---	1	45	---	---	---	---	---	---	---	---	---	---	---	---
	45+08	34.9	LT	USH 10	---	1	55	---	---	---	---	---	---	---	---	---	---	---	---
	45+21	5.0	LT	USH 10	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	PROJECT TOTALS				1	2	100	0	0	0	0	0	0	0	0	0	0	0	0
PROJECT 1500-37-71																			
	70+41	6.2	LT	USH 10	---	1	37	---	---	---	---	---	---	---	---	---	---	---	---
	70+77	47.7	LT	USH 10	---	1	42	---	---	---	---	---	---	---	---	---	---	---	---
	70+77	24.3	LT	USH 10	---	1	24	---	---	---	---	---	---	---	---	---	---	---	---
	70+77	9.4	LT	USH 10	---	1	15	---	---	---	---	---	---	---	---	---	---	---	---
	70+78	23.8	RT	USH 10	---	1	48	---	---	---	---	---	---	---	---	---	---	---	---
	72+06	81.5	LT	USH 10	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	72+17	5.7	LT	USH 10	1	---	---	176	---	---	---	---	---	---	---	---	---	---	---
	72+25	99.1	LT	USH 10	1	---	---	---	---	---	---	---	---	---	---	---	---	---	1
	73+11	4.4	RT	USH 10	1	---	---	95	---	---	---	---	---	---	---	---	---	---	---
	73+16	24.2	RT	USH 10	---	1	21	---	---	---	---	---	---	---	---	---	---	---	---
	73+17	46.9	LT	USH 10	---	1	24	---	---	---	---	---	---	---	---	---	---	---	---
	73+17	23.6	LT	USH 10	---	1	24	---	---	---	---	---	---	---	---	---	---	---	---
	73+17	0.7	RT	USH 10	---	1	7	---	---	---	---	---	---	---	---	---	---	---	---
	76+02	9.5	RT	USH 10	1	---	292	---	---	---	---	---	---	---	---	---	---	---	---
	76+07	14.9	LT	USH 10	---	1	16	---	---	---	---	---	---	---	---	---	---	---	---
	76+07	1.1	RT	USH 10	---	1	10	---	---	---	---	---	---	---	---	---	---	---	---
	76+07	24.5	RT	USH 10	---	1	16	---	---	---	---	---	---	---	---	---	---	---	---
	76+08	38.1	LT	USH 10	---	1	24	---	---	---	---	---	---	---	---	---	---	---	---
	78+95	14.5	RT	USH 10	1	---	293	---	---	---	---	---	---	---	---	---	---	---	---
	79+01	29.2	LT	USH 10	---	1	23	---	---	---	---	---	---	---	---	---	---	---	---
	79+01	6.1	LT	USH 10	---	1	8	---	---	---	---	---	---	---	---	---	---	---	---
	79+01	1.9	RT	USH 10	---	1	14	---	---	---	---	---	---	---	---	---	---	---	---
	79+01	25.4	RT	USH 10	---	1	13	---	---	---	---	---	---	---	---	---	---	---	---
	85+02	29.2	LT	USH 10	---	1	39	---	---	---	---	---	---	---	---	---	---	---	---
	85+02	25.0	RT	USH 10	---	1	21	---	---	---	---	---	---	---	---	---	---	---	---
	85+13	7.6	RT	USH 10	1	---	246	---	---	---	---	---	---	---	---	---	---	---	---
	87+53	29.0	LT	USH 10	---	1	23	---	---	---	---	---	---	---	---	---	---	---	---
	87+53	5.8	LT	USH 10	---	1	8	---	---	---	---	---	---	---	---	---	---	---	---
	87+53	1.9	RT	USH 10	---	1	8	---	---	---	---	---	---	---	---	---	---	---	---
	87+53	25.1	RT	USH 10	---	1	19	---	---	---	---	---	---	---	---	---	---	---	---
	87+59	7.5	RT	USH 10	1	---	343	---	---	---	---	---	---	---	---	---	---	---	---
	90+96	36.0	LT	USH 10	---	1	24	---	---	---	---	---	---	---	---	---	---	---	---
	90+96	12.8	LT	USH 10	---	1	15	---	---	---	---	---	---	---	---	---	---	---	---
	90+97	1.9	RT	USH 10	---	1	9	---	---	---	---	---	---	---	---	---	---	---	---
	90+97	25.1	RT	USH 10	---	1	18	---	---	---	---	---	---	---	---	---	---	---	---
	91+02	8.6	RT	USH 10	1	---	---	55	---	---	---	---	---	---	---	---	---	---	---

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

REMOVING AND ABANDONING STORM SEWER CONT.

(NOTE: LOCATION PROVIDED TYPICALLY REFERS TO UPSTREAM STRUCTURE OR REMOVAL LIMIT)

ID	STATION	OFFSET (FT)		LOCATION	204.0210 REMOVING MANHOLES EA	204.0220 REMOVING INLETS EA	204.0245.01 REMOVING STORM SEWER 12-INCH OR LESS LF	204.0245.02 REMOVING STORM SEWER 15-INCH LF	204.0245.03 REMOVING STORM SEWER 18-INCH LF	204.0245.04 REMOVING STORM SEWER 21-INCH LF	204.0245.05 REMOVING STORM SEWER 24-INCH LF	204.0245.06 REMOVING STORM SEWER 36-INCH LT	204.0245.07 REMOVING STORM SEWER 42-INCH LF	204.0245.08 REMOVING STORM SEWER 48-INCH LF	204.0245.09 REMOVING STORM SEWER 60-INCH LF	204.0245.10 REMOVING STORM SEWER 72-Inch LF	204.0250 ABANDONING MANHOLES EA	204.0280 SEALING PIPES EA	204.0291.S* ABANDONING SEWER CY
PROJECT 1500-37-71 CONT.																			
	91+51	86	LT	USH 10	---	---	---	---	---	---	---	---	---	---	---	160	---	---	---
	92+03	2.0	LT	USH 10	1	---	---	47	---	---	---	---	---	---	---	---	---	---	---
	92+10	6.2	RT	USH 10	1	---	---	54	---	---	---	---	---	---	---	---	---	---	---
	92+95	22.1	LT	USH 10	---	1	13	---	---	---	---	---	---	---	---	---	---	---	---
	92+96	46.6	LT	USH 10	---	1	25	---	---	---	---	---	---	---	---	---	---	---	---
	92+96	9.8	LT	USH 10	---	1	6	---	---	---	---	---	---	---	---	---	---	---	---
	92+97	5.3	RT	USH 10	1	---	9	86	---	---	---	---	---	---	---	---	---	---	---
	92+97	3.9	LT	USH 10	1	---	---	---	94	---	---	---	---	---	---	---	---	---	---
	93+05	24.9	RT	USH 10	---	1	21	---	---	---	---	---	---	---	---	---	---	---	---
	93+17	85.6	LT	USH 10	---	1	---	---	---	---	---	---	---	---	---	---	---	---	8
	93+37	101	LT	USH 10	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---
	93+41	98.1	LT	USH 10	---	---	---	55	---	---	---	---	---	---	---	---	---	---	---
	93+43	5.9	LT	USH 10	1	---	---	---	46	---	---	---	---	---	---	---	---	---	---
	93+65	78.1	LT	USH 10	---	1	45	---	---	---	---	---	---	---	---	---	---	---	---
	93+72	44.4	RT	USH 10	---	1	36	---	---	---	---	---	---	---	---	---	---	---	---
	93+81	5.5	LT	USH 10	1	---	---	---	39	---	---	---	---	---	---	---	---	---	---
	93+93	10.9	LT	USH 10	---	1	13	---	---	---	---	---	---	---	---	---	---	---	---
	93+97	47.3	LT	USH 10	---	1	37	---	---	---	---	---	---	---	---	---	---	---	---
	94+07	0.4	RT	USH 10	---	1	27	111	---	---	---	---	---	---	---	---	---	---	---
	94+21	24.0	RT	USH 10	---	1	28	---	---	---	---	---	---	---	---	---	---	---	---
	95+27	0.6	RT	USH 10	---	1	---	120	---	---	---	---	---	---	---	---	---	---	---
	96+36	44.3	RT	USH 10	---	1	38	---	---	---	---	---	---	---	---	---	---	---	---
	98+81	23.9	RT	USH 10	---	1	36	---	---	---	---	---	---	---	---	---	---	---	---
	99+03	13.1	LT	USH 10	---	1	9	---	---	---	---	---	---	---	---	---	---	---	---
	99+05	62.8	RT	USH 10	---	1	52	---	---	---	---	---	---	---	---	---	---	---	---
	99+07	0	LT	USH 10	---	1	6	381	---	---	---	---	---	---	---	---	---	---	---
	99+07	5.5	LT	USH 10	1		---	---	525	---	---	---	---	---	---	---	---	---	---
	99+51	39.0	RT	USH 10	---	1	58	---	---	---	---	---	---	---	---	---	---	---	---
	99+68	11.7	LT	USH 10	---	1	7	---	---	---	---	---	---	---	---	---	---	---	---
	99+70	47.6	LT	USH 10	---	1	36	---	---	---	---	---	---	---	---	---	---	---	---
	99+72	6.0	LT	USH 10	1	---	---	---	66	---	---	---	---	---	---	---	---	---	---
	100+21	51.7	LT	USH 10	1	---	68	---	---	---	---	---	---	---	---	---	---	---	---
	100+40	23.9	RT	USH 10	---	1	47	---	---	---	---	---	---	---	---	---	---	---	---
	100+67	76.5	LT	USH 10	---	1	52	---	---	---	---	---	---	---	---	---	---	---	---
	100+75	5.9	LT	USH 10	1	---	---	---	103	---	---	---	---	---	---	---	---	---	---
	100+78	24.5	LT	USH 10	---	1	19	---	---	---	---	---	---	---	---	---	---	---	---
	100+83	47.4	LT	USH 10	---	1	24	---	---	---	---	---	---	---	---	---	---	---	---
	100+84	0	RT	USH 10	---	1	11	---	---	---	---	---	---	---	---	---	---	---	---
	100+88	69.9	LT	USH 10	---	---	23	---	---	---	---	---	---	---	---	---	---	---	---
	100+91	23.6	RT	USH 10	---	1	25	---	---	---	---	---	---	---	---	---	---	---	---
	102+81	72.7	LT	USH 10	---	1	25	---	---	---	---	---	---	---	---	---	---	---	---
	102+91	49.8	LT	USH 10	1	---	---	45	---	---	---	---	---	---	---	---	---	---	---
	102+92	5.1	LT	USH 10	1	---	---	---	217	---	---	---	---	---	---	---	---	---	---
	103+17	64.3	LT	USH 10	---	1	30	---	---	---	---	---	---	---	---	---	---	---	---

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

REMOVING AND ABANDONING STORM SEWER CONT.

(NOTE: LOCATION PROVIDED TYPICALLY REFERS TO UPSTREAM STRUCTURE OR REMOVAL LIMIT)

ID	STATION	OFFSET (FT)		LOCATION	204.0210 REMOVING MANHOLES EA	204.0220 REMOVING INLETS EA	204.0245.01 REMOVING STORM SEWER 12-INCH OR LESS LF	204.0245.02 REMOVING STORM SEWER 15-INCH LF	204.0245.03 REMOVING STORM SEWER 18-INCH LF	204.0245.04 REMOVING STORM SEWER 21-INCH LF	204.0245.05 REMOVING STORM SEWER 24-INCH LF	204.0245.06 REMOVING STORM SEWER 36-INCH LT	204.0245.07 REMOVING STORM SEWER 42-INCH LF	204.0245.08 REMOVING STORM SEWER 48-INCH LF	204.0245.09 REMOVING STORM SEWER 60-INCH LF	204.0245.10 REMOVING STORM SEWER 72-Inch LF	204.0250 ABANDONING MANHOLES EA	204.0280 SEALING PIPES EA	204.0291.S* ABANDONING SEWER CY
PROJECT 1500-37-71 CONT.																			
	103+34	5.3	LT	USH 10	1	---	---	42	---	---	---	---	---	---	---	---	---	---	---
	103+37	48.1	LT	USH 10	---	1	47	---	---	---	---	---	---	---	---	---	---	---	---
	103+44	2.7	LT	USH 10	---	1	10	---	---	---	---	---	---	---	---	---	---	---	---
	103+45	11.9	LT	USH 10	---	1	13	---	---	---	---	---	---	---	---	---	---	---	---
	103+46	23.4	RT	USH 10	---	1	27	---	---	---	---	---	---	---	---	---	---	---	---
	106+09	47.4	LT	USH 10	---	1	35	---	---	---	---	---	---	---	---	---	---	---	---
	106+13	23.6	RT	USH 10	---	1	30	---	---	---	---	---	---	---	---	---	---	---	---
	106+22	4.9	LT	USH 10	---	1	288	---	---	---	---	---	---	---	---	---	---	---	---
	106+26	17.2	LT	USH 10	---	1	13	---	---	---	---	---	---	---	---	---	---	---	---
	106+35	42.8	RT	USH 10	1	---	46	---	---	---	---	---	---	---	---	---	---	---	---
	106+36	5.9	LT	USH 10	1	---	15	---	---	---	---	---	---	---	---	---	---	---	---
	106+39	74.9	LT	USH 10	---	1	59	---	---	---	---	---	---	---	---	---	---	---	---
	106+51	0.3	RT	USH 10	1	---	---	69	---	---	---	---	---	---	---	---	---	---	---
	107+09	5.7	LT	USH 10	1	---	74	---	---	---	---	---	---	---	---	---	---	---	---
	107+20	0	RT	USH 10	1	---	13	251	---	---	---	---	---	---	---	---	---	---	---
	107+23	18.5	LT	USH 10	---	1	19	---	---	---	---	---	---	---	---	---	---	---	---
	107+34	47.6	LT	USH 10	---	1	31	---	---	---	---	---	---	---	---	---	---	---	---
	107+68	75.5	LT	USH 10	---	1	44	---	---	---	---	---	---	---	---	---	---	---	---
	107+71	5.8	LT	USH 10	1	---	63	---	---	---	---	---	---	---	---	---	---	---	---
	109+52	47.4	LT	USH 10	---	1	32	---	---	---	---	---	---	---	---	---	---	---	---
	109+64	17.7	LT	USH 10	---	1	12	---	---	---	---	---	---	---	---	---	---	---	---
	109+68	6.5	LT	USH 10	---	1	8	---	---	---	---	---	---	---	---	---	---	---	---
	109+71	0	RT	USH 10	1	---	---	57	---	---	---	---	---	---	---	---	---	---	---
	109+82	75.9	LT	USH 10	---	1	82	---	---	---	---	---	---	---	---	---	---	---	---
	110+17	23.7	RT	USH 10	---	1	26	---	---	---	---	---	---	---	---	---	---	---	---
	110+27	0.1	RT	USH 10	---	1	---	245	---	---	---	---	---	---	---	---	---	---	---
	110+28	7.7	LT	USH 10	---	1	8	---	---	---	---	---	---	---	---	---	---	---	---
	112+65	47.6	LT	USH 10	---	1	24	---	---	---	---	---	---	---	---	---	---	---	---
	112+67	24.7	LT	USH 10	---	1	26	---	---	---	---	---	---	---	---	---	---	---	---
	112+69	23.5	RT	USH 10	---	1	24	---	---	---	---	---	---	---	---	---	---	---	---
	112+72	0.3	RT	USH 10	---	1	---	---	243	---	---	---	---	---	---	---	---	---	---
	115+02	47.7	LT	USH 10	---	1	24	---	---	---	---	---	---	---	---	---	---	---	---
	115+07	24.6	LT	USH 10	---	1	26	---	---	---	---	---	---	---	---	---	---	---	---
	115+12	23.7	RT	USH 10	---	1	24	---	---	---	---	---	---	---	---	---	---	---	---
	115+15	0.1	RT	USH 10	---	1	---	---	196	---	---	---	---	---	---	---	---	---	---
	117+06	24	RT	USH 10	---	1	---	---	105	---	---	---	---	---	---	---	---	---	---
	117+11	0.3	RT	USH 10	1	---	24	---	---	---	---	---	---	---	---	---	---	---	---
	117+57	47.3	LT	USH 10	---	1	29	---	---	---	---	---	---	---	---	---	---	---	---
	117+71	21.9	LT	USH 10	---	1	11	---	---	---	---	---	---	---	---	---	---	---	---
	117+71	10.9	LT	USH 10	---	1	47	---	---	---	---	---	---	---	---	---	---	---	---
	117+82	51.4	RT	USH 10	---	1	34	---	---	---	---	---	---	---	---	---	---	---	---
	118+04	80.9	LT	USH 10	---	1	21	---	---	---	---	---	---	---	---	---	---	---	---
	118+15	52.3	RT	USH 10	1	---	49	---	---	---	---	---	---	---	---	---	---	---	---
	118+15	70.3	RT	USH 10	---	---	18	---	---	---	---	---	---	---	---	---	---	---	---

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

REMOVING AND ABANDONING STORM SEWER CONT.

(NOTE: LOCATION PROVIDED TYPICALLY REFERS TO UPSTREAM STRUCTURE OR REMOVAL LIMIT)

ID	STATION	OFFSET (FT)		LOCATION	204.0210 REMOVING MANHOLES EA	204.0220 REMOVING INLETS EA	204.0245.01 REMOVING STORM SEWER 12-INCH OR LESS LF	204.0245.02 REMOVING STORM SEWER 15-INCH LF	204.0245.03 REMOVING STORM SEWER 18-INCH LF	204.0245.04 REMOVING STORM SEWER 21-INCH LF	204.0245.05 REMOVING STORM SEWER 24-INCH LF	204.0245.06 REMOVING STORM SEWER 36-INCH LT	204.0245.07 REMOVING STORM SEWER 42-INCH LF	204.0245.08 REMOVING STORM SEWER 48-INCH LF	204.0245.09 REMOVING STORM SEWER 60-INCH LF	204.0245.10 REMOVING STORM SEWER 72-Inch LF	204.0250 ABANDONING MANHOLES EA	204.0280 SEALING PIPES EA	204.0291.S* ABANDONING SEWER CY
PROJECT 1500-37-71 CONT.																			
	118+16	3.8	RT	USH 10	1	---	6	---	31	---	---	---	---	---	---	---	---	---	---
	118+17	2.2	LT	USH 10	1	---	---	344	---	---	---	---	---	---	---	---	---	---	---
	118+18	64.7	LT	USH 10	1	---	63	---	---	---	---	---	---	---	---	---	---	---	---
	118+44	76.4	LT	USH 10	---	1	29	---	---	---	---	---	---	---	---	---	---	---	---
	118+46	4.6	RT	USH 10	1	---	---	---	323	---	---	---	---	---	---	---	---	---	---
	118+62	49.7	RT	USH 10	---	1	48	---	---	---	---	---	---	---	---	---	---	---	---
	121+61	1.2	LT	USH 10	---	1	---	40	---	---	---	---	---	---	---	---	---	---	---
	121+61	13.4	LT	USH 10	---	1	12	---	---	---	---	---	---	---	---	---	---	---	---
	121+65	47.4	LT	USH 10	---	1	35	---	---	---	---	---	---	---	---	---	---	---	---
	121+67	23.5	RT	USH 10	---	1	19	---	---	---	---	---	---	---	---	---	---	---	---
	121+69	5.0	RT	USH 10	1	---	---	---	51	---	---	---	---	---	---	---	---	---	---
	121+93	67.4	LT	USH 10	---	1	8	---	---	---	---	---	---	---	---	---	---	---	---
	121+94	50.8	RT	USH 10	---	1	28	---	---	---	---	---	---	---	---	---	---	---	---
	122+00	64.3	LT	USH 10	1	---	62	---	---	---	---	---	---	---	---	---	---	---	---
	122+01	2.2	LT	USH 10	1	---	---	---	321	---	---	---	---	---	---	---	---	---	---
	122+20	4.8	RT	USH 10	1	---	---	---	303	---	---	---	---	---	---	---	---	---	---
	122+21	51.1	RT	USH 10	---	1	47	---	---	---	---	---	---	---	---	---	---	---	---
	122+22	66.0	LT	USH 10	---	1	22	---	---	---	---	---	---	---	---	---	---	---	---
	125+10	47.6	LT	USH 10	---	1	31	---	---	---	---	---	---	---	---	---	---	---	---
	125+11	23.9	RT	USH 10	---	1	22	---	---	---	---	---	---	---	---	---	---	---	---
	125+19	18.0	LT	USH 10	---	1	13	---	---	---	---	---	---	---	---	---	---	---	---
	125+19	5.8	LT	USH 10	---	1	5	---	---	---	---	---	---	---	---	---	---	---	---
	125+21	2.5	LT	USH 10	1	---	8	---	24	---	---	---	---	---	---	---	---	---	---
	125+23	5.7	RT	USH 10	1	---	---	---	---	46	---	---	---	---	---	---	---	---	---
	125+36	65.4	LT	USH 10	---	1	8	---	---	---	---	---	---	---	---	---	---	---	---
	125+38	50	RT	USH 10	---	1	27	---	---	---	---	---	---	---	---	---	---	---	---
	125+43	61.9	LT	USH 10	1	---	60	---	---	---	---	---	---	---	---	---	---	---	---
	125+45	2.1	LT	USH 10	1	---	---	---	---	240	---	---	---	---	---	---	---	---	---
	125+65	50.1	RT	USH 10	---	1	46	---	---	---	---	---	---	---	---	---	---	---	---
	125+65	70.9	LT	USH 10	---	1	24	---	---	---	---	---	---	---	---	---	---	---	---
	125+68	5.0	RT	USH 10	1	---	---	---	---	217	---	---	---	---	---	---	---	---	---
	127+72	47.8	LT	USH 10	---	1	32	---	---	---	---	---	---	---	---	---	---	---	---
	127+74	24.0	RT	USH 10	---	1	22	---	---	---	---	---	---	---	---	---	---	---	---
	127+82	17.9	LT	USH 10	---	1	12	---	---	---	---	---	---	---	---	---	---	---	---
	127+82	5.8	LT	USH 10	---	1	5	---	---	---	---	---	---	---	---	---	---	---	---
	127+85	2.7	LT	USH 10	1	---	---	---	---	23	---	---	---	---	---	---	---	---	---
	127+85	4.9	RT	USH 10	1	---	---	---	---	47	---	---	---	---	---	---	---	---	---
	128+00	67.0	LT	USH 10	1	---	29	---	---	---	---	---	---	---	---	---	---	---	---
	128+01	57.8	RT	USH 10	---	1	27	---	---	---	---	---	---	---	---	---	---	---	---
	128+07	2.8	LT	USH 10	1	---	---	---	---	261	---	---	---	---	---	---	---	---	---
	128+28	71.5	LT	USH 10	1	---	72	---	---	---	---	---	---	---	---	---	---	---	---
	128+29	58.4	RT	USH 10	---	1	54	---	---	---	---	---	---	---	---	---	---	---	---
	128+32	4.8	RT	USH 10	1	---	---	---	---	243	---	---	---	---	---	---	---	---	---
	130+51	47.7	LT	USH 10	---	1	35	---	---	---	---	---	---	---	---	---	---	---	---

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

REMOVING AND ABANDONING STORM SEWER CONT.

(NOTE: LOCATION PROVIDED TYPICALLY REFERS TO UPSTREAM STRUCTURE OR REMOVAL LIMIT)

ID	STATION	OFFSET (FT)		LOCATION	204.0210 REMOVING MANHOLES EA	204.0220 REMOVING INLETS EA	204.0245.01 REMOVING STORM SEWER 12-INCH OR LESS LF	204.0245.02 REMOVING STORM SEWER 15-INCH LF	204.0245.03 REMOVING STORM SEWER 18-INCH LF	204.0245.04 REMOVING STORM SEWER 21-INCH LF	204.0245.05 REMOVING STORM SEWER 24-INCH LF	204.0245.06 REMOVING STORM SEWER 36-INCH LT	204.0245.07 REMOVING STORM SEWER 42-INCH LF	204.0245.08 REMOVING STORM SEWER 48-INCH LF	204.0245.09 REMOVING STORM SEWER 60-INCH LF	204.0245.10 REMOVING STORM SEWER 72-Inch LF	204.0250 ABANDONING MANHOLES EA	204.0280 SEALING PIPES EA	204.0291.S* ABANDONING SEWER CY
PROJECT 1500-37-71 CONT.																			
	130+54	24.0	RT	USH 10	---	1	28	---	---	---	---	---	---	---	---	---	---	---	---
	130+66	16.7	LT	USH 10	---	1	9	---	---	---	---	---	---	---	---	---	---	---	---
	130+66	7.7	LT	USH 10	---	1	6	---	---	---	---	---	---	---	---	---	---	---	---
	130+68	2.9	LT	USH 10	1	---	---	---	---	20	---	---	---	---	---	---	---	---	---
	130+75	5.1	RT	USH 10	1	---	15	---	---	46	---	---	---	---	---	---	---	---	---
	130+82	50.3	RT	USH 10	---	1	28	---	---	---	---	---	---	---	---	---	---	---	---
	130+88	2.9	LT	USH 10	1	---	---	---	---	---	255	---	---	---	---	---	---	---	---
	131+10	50.8	RT	USH 10	---	1	47	---	---	---	---	---	---	---	---	---	---	---	---
	131+21	5.2	RT	USH 10	1	---	---	---	---	239	---	---	---	---	---	---	---	---	---
	133+28	47.4	LT	USH 10	---	1	35	---	---	---	---	---	---	---	---	---	---	---	---
	133+33	23.9	RT	USH 10	---	1	33	---	---	---	---	---	---	---	---	---	---	---	---
	133+42	6.3	LT	USH 10	---	1	4	---	---	---	---	---	---	---	---	---	---	---	---
	133+43	17.1	LT	USH 10	---	1	11	---	---	---	---	---	---	---	---	---	---	---	---
	133+43	3.1	LT	USH 10	1	---	---	---	---	24	---	---	---	---	---	---	---	---	---
	133+60	4.8	RT	USH 10	1	---	---	---	42	---	---	---	---	---	---	---	---	---	---
	133+61	51.4	RT	USH 10	---	1	27	---	---	---	---	---	---	---	---	---	---	---	---
	133+66	3.2	LT	USH 10	1	---	---	---	---	162	---	---	---	---	---	---	---	---	---
	133+88	51.5	RT	USH 10	---	1	48	---	---	---	---	---	---	---	---	---	---	---	---
	134+01	5.4	RT	USH 10	1	---	---	---	141	---	---	---	---	---	---	---	---	---	---
	134+72	118	LT	USH 10	---	---	---	---	---	---	---	---	49	---	---	---	---	---	---
	134+80	47.9	LT	USH 10	---	1	36	---	---	---	---	---	---	---	---	---	---	---	---
	134+88	82.4	LT	USH 10	---	1	---	55	---	---	---	---	---	---	---	---	---	---	---
	135+04	80.9	LT	USH 10	1	---	---	---	---	---	---	---	100	---	---	---	---	---	---
	135+13	34.6	LT	USH 10	1	---	---	11	---	---	---	---	---	---	---	---	---	---	---
	135+16	24.1	LT	USH 10	---	1	7	---	---	---	---	---	---	---	---	---	---	---	---
	135+16	17.3	LT	USH 10	---	1	17	---	---	---	---	---	---	---	---	---	---	---	---
	135+27	3.9	LT	USH 10	1	---	---	---	---	---	39	---	---	---	---	---	---	---	---
	135+42	8.4	RT	USH 10	1	---	---	---	---	27	---	---	---	---	---	---	---	---	---
	135+61	23.9	RT	USH 10	---	1	27	---	---	---	---	---	---	---	---	---	---	---	---
	135+66	2.2	LT	USH 10	1	---	---	---	---	---	---	---	76	---	---	---	---	---	---
	135+66	63.4	LT	USH 10	---	1	47	---	---	---	---	---	---	---	---	---	---	---	---
	136+09	47.6	LT	USH 10	---	1	32	---	---	---	---	---	---	---	---	---	---	---	---
	136+24	70.2	RT	USH 10	---	1	45	---	---	---	---	---	---	---	---	---	---	---	---
	136+41	43.0	LT	USH 10	1	---	---	---	---	---	26	---	---	---	---	---	---	---	---
	136+41	17.4	LT	USH 10	1	---	---	---	---	---	18	---	---	---	---	---	---	---	---
	136+42	80.0	LT	USH 10	---	---	---	---	---	---	37	---	---	---	---	---	---	---	---
	136+42	0.5	RT	USH 10	1	---	---	---	---	---	---	---	49	---	---	---	---	---	---
	136+46	72.9	RT	USH 10	1	---	---	---	41	---	---	---	---	---	---	---	---	---	---
	136+47	31.9	RT	USH 10	1	---	---	---	53	---	---	---	---	---	---	---	---	---	---
	136+70	66.3	RT	USH 10	---	1	42	---	---	---	---	---	---	---	---	---	---	---	---
	136+71	139	RT	USH 10	---	1	---	---	71	---	---	---	---	---	---	---	---	---	---
	136+90	2.1	RT	USH 10	1	---	---	---	---	---	---	---	198	---	---	---	---	---	---
	138+86	47.3	LT	USH 10	---	1	25	---	---	---	---	---	---	---	---	---	---	---	---
	138+87	22.8	LT	USH 10	---	1	28	---	---	---	---	---	---	---	---	---	---	---	---

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

REMOVING AND ABANDONING STORM SEWER CONT.

(NOTE: LOCATION PROVIDED TYPICALLY REFERS TO UPSTREAM STRUCTURE OR REMOVAL LIMIT)

ID	STATION	OFFSET (FT)		LOCATION	204.0210 REMOVING MANHOLES EA	204.0220 REMOVING INLETS EA	204.0245.01 REMOVING STORM SEWER 12-INCH OR LESS LF	204.0245.02 REMOVING STORM SEWER 15-INCH LF	204.0245.03 REMOVING STORM SEWER 18-INCH LF	204.0245.04 REMOVING STORM SEWER 21-INCH LF	204.0245.05 REMOVING STORM SEWER 24-INCH LF	204.0245.06 REMOVING STORM SEWER 36-INCH LT	204.0245.07 REMOVING STORM SEWER 42-INCH LF	204.0245.08 REMOVING STORM SEWER 48-INCH LF	204.0245.09 REMOVING STORM SEWER 60-INCH LF	204.0245.10 REMOVING STORM SEWER 72-Inch LF	204.0250 ABANDONING MANHOLES EA	204.0280 SEALING PIPES EA	204.0291.S* ABANDONING SEWER CY
PROJECT 1500-37-71 CONT.																			
	138+88	4.5	RT	USH 10	1	---	---	---	---	---	---	---	231	---	---	---	---	---	---
	138+89	23.8	RT	USH 10	---	1	19	---	---	---	---	---	---	---	---	---	---	---	---
	139+21	9.4	LT	USH 10	---	1	35	---	---	---	---	---	---	---	---	---	---	---	---
	140+92	23.9	LT	USH 10	---	1	24	---	---	---	---	---	---	---	---	---	---	---	---
	140+93	47.5	LT	USH 10	---	1	6	---	---	---	---	---	---	---	---	---	---	---	---
	140+98	47.6	LT	USH 10	---	1	49	---	---	---	---	---	---	---	---	---	---	---	---
	140+99	10.5	LT	USH 10	---	1	35	---	---	---	---	---	---	---	---	---	---	---	---
	141+01	23.8	RT	USH 10	---	1	5	---	---	---	---	---	---	---	---	---	---	---	---
	141+06	23.9	RT	USH 10	---	1	39	---	---	---	---	---	---	---	---	---	---	---	---
	141+19	5.3	RT	USH 10	1	---	---	---	---	---	---	---	27	---	---	---	---	---	---
	141+36	79.7	LT	USH 10	---	1	45	---	---	---	---	---	---	---	---	---	---	---	---
	141+36	89.1	LT	USH 10	---	1	8	---	---	---	---	---	---	---	---	---	---	---	---
	141+37	51.2	RT	USH 10	---	1	25	---	---	---	---	---	---	---	---	---	---	---	---
	141+44	89.9	LT	USH 10	1	---	54	---	---	---	---	---	---	---	---	---	---	---	---
	141+44	53.0	RT	USH 10	---	---	---	---	---	---	---	28	---	---	---	---	---	---	---
	141+44	27.4	RT	USH 10	1	---	---	---	---	---	---	57	---	---	---	---	---	---	---
	141+45	0.8	RT	USH 10	1	---	---	---	---	---	---	---	---	42	---	---	---	---	---
	141+45	36.0	LT	USH 10	1	---	---	---	48	---	---	---	---	---	---	---	---	---	---
	141+73	52.9	RT	USH 10	---	1	38	---	---	---	---	---	---	---	---	---	---	---	---
	141+76	89.9	LT	USH 10	---	1	33	---	---	---	---	---	---	---	---	---	---	---	---
	141+78	68.7	LT	USH 10	---	1	47	---	---	---	---	---	---	---	---	---	---	---	---
	141+85	10.5	LT	USH 10	1	---	---	---	---	---	---	---	---	48	---	---	---	---	---
	141+98	24.6	RT	USH 10	---	1	30	---	---	---	---	---	---	---	---	---	---	---	---
	142+09	48.2	LT	USH 10	---	1	27	---	---	---	---	---	---	---	---	---	---	---	---
	142+10	12.7	LT	USH 10	---	1	24	---	---	---	---	---	---	---	---	---	---	---	---
	142+16	1.2	RT	USH 10	---	1	15	---	---	---	---	---	---	---	---	---	---	---	---
	142+28	29	LT	USH 10	1	---	---	---	---	---	---	---	---	75	---	---	---	1	---
	145+00	48.8	LT	USH 10	---	1	---	11	---	---	---	---	---	---	---	---	---	1	---
	145+04	51.2	RT	USH 10	---	1	38	---	---	---	---	---	---	---	---	---	---	---	---
	145+31	2.2	RT	USH 10	1	---	---	59	---	---	---	---	---	---	---	---	---	---	---
	145+40	39.9	RT	USH 10	---	1	40	---	---	---	---	---	---	---	---	---	---	---	---
	145+61	0.2	RT	USH 10	---	1	32	---	---	---	---	---	---	---	---	---	---	---	---
	145+78	25.5	RT	USH 10	---	1	30	---	---	---	---	---	---	---	---	---	---	---	---
	145+93	13.6	LT	USH 10	---	1	35	---	---	---	---	---	---	---	---	---	---	---	---
	148+19	49.3	RT	USH 10	---	1	25	---	---	---	---	---	---	---	---	---	---	---	---
	148+25	25.3	RT	USH 10	1	---	286	---	---	---	---	---	---	---	---	---	---	---	---
	148+27	261	LT	USH 10	1	---	---	---	---	---	---	---	---	---	---	---	---	---	198
	148+49	54.5	RT	USH 10	---	1	38	---	---	---	---	---	---	---	---	---	---	---	---
	150+56	24.7	LT	USH 10	---	1	34	---	---	---	---	---	---	---	---	---	---	---	---
	150+73	51.4	LT	USH 10	---	1	32	---	---	---	---	---	---	---	---	---	---	---	---
	150+85	8.5	LT	USH 10	---	1	92	---	---	---	---	---	---	---	---	---	---	---	---
	151+14	25.4	RT	USH 10	---	1	22	---	---	---	---	---	---	---	---	---	---	---	---
	151+30	40.3	RT	USH 10	---	1	44	---	---	---	---	---	---	---	---	---	---	---	---
	151+66	50.7	LT	USH 10	1	---		93	---	---	---	---	---	---	---	---	---	---	7

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

REMOVING AND ABANDONING STORM SEWER CONT.
(NOTE: LOCATION PROVIDED TYPICALLY REFERS TO UPSTREAM STRUCTURE OR REMOVAL LIMIT)

ID	STATION	OFFSET (FT)		LOCATION	204.0210 REMOVING MANHOLES EA	204.0220 REMOVING INLETS EA	204.0245.01 REMOVING STORM SEWER 12-INCH OR LESS LF	204.0245.02 REMOVING STORM SEWER 15-INCH LF	204.0245.03 REMOVING STORM SEWER 18-INCH LF	204.0245.04 REMOVING STORM SEWER 21-INCH LF	204.0245.05 REMOVING STORM SEWER 24-INCH LF	204.0245.06 REMOVING STORM SEWER 36-INCH LT	204.0245.07 REMOVING STORM SEWER 42-INCH LF	204.0245.08 REMOVING STORM SEWER 48-INCH LF	204.0245.09 REMOVING STORM SEWER 60-INCH LF	204.0245.10 REMOVING STORM SEWER 72-Inch LF	204.0250 ABANDONING MANHOLES EA	204.0280 SEALING PIPES EA	204.0291.S* ABANDONING SEWER CY
PROJECT 1500-37-71 CONT.																			
	151+68	62.2	RT	USH 10	---	1	35	---	---	---	---	---	---	---	---	---	---	---	---
	151+68	268	LT	USH 10	---	---	---	---	---	---	---	---	---	---	---	---	1	---	185
	151+72	27.8	RT	USH 10	1	---	79	---	---	---	---	---	---	---	---	---	---	---	---
	PROJECT TOTALS				82	169	6854	2502	3083	1595	375	85	730	165	0	160	1	3	400
PROJECT 4570-12-71																			
	153+12	25	RT	STH 42	---	1	26	---	---	---	---	---	---	---	---	---	---	---	---
	153+14	48	LT	STH 42	---	1	16	---	---	---	---	---	---	---	---	---	---	---	---
	153+15	0.8	RT	STH 42	---	1	24	---	---	---	---	---	---	---	---	---	---	---	---
	153+22	23.2	LT	STH 42	---	1	19	---	---	---	---	---	---	---	---	---	---	---	---
	153+27	40.7	LT	STH 42	1	---	---	195	---	---	---	---	---	---	---	---	---	---	---
	153+69	35.1	RT	STH 42	---	---	8	---	---	---	---	---	---	---	---	---	---	---	---
	153+69	27.1	RT	STH 42	1	---	57	---	---	---	---	---	---	---	---	---	---	---	---
	155+01	25	RT	STH 42	---	1	26	---	---	---	---	---	---	---	---	---	---	---	---
	155+08	0.2	RT	STH 42	---	1	24	---	---	---	---	---	---	---	---	---	---	---	---
	155+15	22.2	LT	STH 42	---	1	26	---	---	---	---	---	---	---	---	---	---	---	---
	155+22	46.9	LT	STH 42	---	1	---	38	---	---	---	---	---	---	---	---	---	---	---
	155+50	52.3	RT	STH 42	---	1	25	---	---	---	---	---	---	---	---	---	---	---	---
	155+52	75	LT	STH 42	---	1	23	---	---	---	---	---	---	---	---	---	---	---	---
	155+59	53.9	LT	STH 42	1	---	---	50	---	---	---	---	---	---	---	---	---	---	---
	155+75	52.7	RT	STH 42	---	1	29	---	---	---	---	---	---	---	---	---	---	---	---
	155+76	75.7	LT	STH 42	---	1	27	---	---	---	---	---	---	---	---	---	---	---	---
	155+96	112	LT	STH 42	---	---	---	---	---	---	---	---	---	---	60	---	---	---	270
	155+97	33	RT	STH 42	1	---	---	88	---	---	---	---	---	---	---	---	---	---	---
	156+08	73.9	LT	STH 42	---	1	20	---	---	---	---	---	---	---	---	---	---	---	---
	156+08	51.9	RT	STH 42	---	1	22	---	---	---	---	---	---	---	---	---	---	---	---
	156+33	68.3	LT	STH 42	---	1	26	---	---	---	---	---	---	---	---	---	---	---	---
	156+33	51.7	RT	STH 42	---	1	26	---	---	---	---	---	---	---	---	---	---	---	---
	159+20	0.2	LT	STH 42	---	1	23	---	---	---	---	---	---	---	---	---	---	---	---
	159+20	22.9	LT	STH 42	---	1	59	---	---	---	---	---	---	---	---	---	---	---	---
	159+46	47.1	LT	STH 42	---	1	38	---	---	---	---	---	---	---	---	---	---	---	---
	159+48	25.1	RT	STH 42	---	1	38	---	---	---	---	---	---	---	---	---	---	---	---
	159+71	55.8	RT	STH 42	---	1	31	---	---	---	---	---	---	---	---	---	---	---	---
	159+71	74.1	LT	STH 42	---	1	7	---	---	---	---	---	---	---	---	---	---	---	---
	159+78	28.5	LT	STH 42	---	---	---	---	---	---	---	---	---	---	---	---	1	---	35
	159+78	72	LT	STH 42	1	---	44	---	---	---	---	---	---	---	---	---	---	---	---
	160+01	47.8	RT	STH 42	---	1	63	---	---	---	---	---	---	---	---	---	---	---	---
	160+01	73.6	LT	STH 42	---	1	23	---	---	---	---	---	---	---	---	---	---	---	---
	160+20	12.2	LT	STH 42	---	---	---	---	---	---	---	---	---	---	---	---	1	---	235
	162+90	0.1	LT	STH 42	---	1	---	24	---	---	---	---	---	---	---	---	---	---	---

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

REMOVING AND ABANDONING STORM SEWER CONT.

(NOTE: LOCATION PROVIDED TYPICALLY REFERS TO UPSTREAM STRUCTURE OR REMOVAL LIMIT)

ID	STATION	OFFSET (FT)		LOCATION	204.0210 REMOVING MANHOLES EA	204.0220 REMOVING INLETS EA	204.0245.01 REMOVING STORM SEWER 12-INCH OR LESS LF	204.0245.02 REMOVING STORM SEWER 15-INCH LF	204.0245.03 REMOVING STORM SEWER 18-INCH LF	204.0245.04 REMOVING STORM SEWER 21-INCH LF	204.0245.05 REMOVING STORM SEWER 24-INCH LF	204.0245.06 REMOVING STORM SEWER 36-INCH LT	204.0245.07 REMOVING STORM SEWER 42-INCH LF	204.0245.08 REMOVING STORM SEWER 48-INCH LF	204.0245.09 REMOVING STORM SEWER 60-INCH LF	204.0245.10 REMOVING STORM SEWER 72-Inch LF	204.0250 ABANDONING MANHOLES EA	204.0280 SEALING PIPES EA	204.0291.S* ABANDONING SEWER CY
PROJECT 4570-12-71 CONT.																			
	162+90	23.1	LT	STH 42	---	1	---	31	---	---	---	---	---	---	---	---	---	---	---
	163+08	48.1	LT	STH 42	---	1	---	50	---	---	---	---	---	---	---	---	---	---	---
	163+09	24.8	RT	STH 42	---	1	---	31	---	---	---	---	---	---	---	---	---	---	---
	163+35	75.9	LT	STH 42	---	---	---	66	---	---	---	---	---	---	---	---	---	---	---
	163+41	10.7	LT	STH 42	---	---	---	---	---	---	---	---	---	---	---	---	1	---	230
	166+54	48.1	LT	STH 42	---	1	25	---	---	---	---	---	---	---	---	---	---	---	---
	166+54	23.3	LT	STH 42	---	1	11	---	---	---	---	---	---	---	---	---	---	---	---
	166+54	0.1	LT	STH 42	---	1	12	---	---	---	---	---	---	---	---	---	---	---	---
	166+54	24.7	RT	STH 42	---	1	25	---	---	---	---	---	---	---	---	---	---	---	---
	166+55	12.2	LT	STH 42	---	---	---	---	---	---	---	---	---	---	---	---	1	---	195
	169+23	23.3	LT	STH 42	---	1	12	---	---	---	---	---	---	---	---	---	---	---	---
	169+23	11.1	LT	STH 42	---	---	---	---	---	---	---	---	---	---	180	---	1	---	40
	169+23	40.9	LT	STH 42	---	1	18	---	---	---	---	---	---	---	---	---	---	---	---
	169+23	0.9	RT	STH 42	---	1	12	---	---	---	---	---	---	---	---	---	---	---	---
	169+23	24.8	RT	STH 42	---	1	24	---	---	---	---	---	---	---	---	---	---	---	---
	171+54	48.1	LT	STH 42	---	1	25	---	---	---	---	---	---	---	---	---	---	---	---
	171+55	13.7	LT	STH 42	1	---	---	---	---	---	---	---	---	---	230	---	---	---	---
	171+56	23.1	LT	STH 42	---	1	10	---	---	---	---	---	---	---	---	---	---	---	---
	171+56	0	RT	STH 42	---	1	14	---	---	---	---	---	---	---	---	---	---	---	---
	171+56	24.7	RT	STH 42	---	1	25	---	---	---	---	---	---	---	---	---	---	---	---
	173+84	24.9	RT	STH 42	---	1	30	---	---	---	---	---	---	---	---	---	---	---	---
	173+85	48	LT	STH 42	---	1	30	---	---	---	---	---	---	---	---	---	---	---	---
	173+86	12.3	LT	STH 42	1	---	---	---	---	---	---	---	---	---	410	---	---	---	---
	173+86	5	LT	STH 42	---	1	8	---	---	---	---	---	---	---	---	---	---	---	---
	173+86	18.6	LT	STH 42	---	1	6	---	---	---	---	---	---	---	---	---	---	---	---
	177+92	11.3	LT	STH 42	1	---	---	---	---	---	---	---	---	---	130	---	---	---	---
	177+93	23.3	LT	STH 42	---	1	12	---	---	---	---	---	---	---	---	---	---	---	---
	177+94	48.1	LT	STH 42	---	1	25	---	---	---	---	---	---	---	---	---	---	---	---
	177+95	0.1	RT	STH 42	---	1	12	---	---	---	---	---	---	---	---	---	---	---	---
	177+97	24.9	RT	STH 42	---	1	25	---	---	---	---	---	---	---	---	---	---	---	---
	179+83	6.9	LT	STH 42	1	---	---	---	59	---	---	---	---	---	---	---	---	---	---
	181+45	6.5	LT	STH 42	1	---	---	---	163	---	---	---	---	---	---	---	---	---	---
	181+52	23.7	RT	STH 42	---	1	19	---	---	---	---	---	---	---	---	---	---	---	---
	181+52	0.8	RT	STH 42	---	1	9	---	---	---	---	---	---	---	---	---	---	---	---
	181+52	24.4	LT	STH 42	---	1	25	---	---	---	---	---	---	---	---	---	---	---	---
	181+52	48.2	LT	STH 42	---	1	24	---	---	---	---	---	---	---	---	---	---	---	---
	184+75	6.7	RT	STH 42	1	---	---	330	---	---	---	---	---	---	---	---	---	---	---
	184+87	14.7	LT	STH 42	---	1	15	---	---	---	---	---	---	---	---	---	---	---	---
	184+87	0.5	RT	STH 42	---	1	14	---	---	---	---	---	---	---	---	---	---	---	---
	184+87	23.7	RT	STH 42	---	1	21	---	---	---	---	---	---	---	---	---	---	---	---
	184+88	57.6	LT	STH 42	---	1	43	---	---	---	---	---	---	---	---	---	---	---	---
	184+89	76.4	LT	STH 42	---	---	18	---	---	---	---	---	---	---	---	---	---	---	---
	189+00	12.6	RT	STH 42	---	1	30	---	---	---	---	---	---	---	---	---	---	---	---
	189+06	81	RT	STH 42	---	1	34	---	---	---	---	---	---	---	---	---	---	---	---

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

REMOVING AND ABANDONING STORM SEWER CONT.

(NOTE: LOCATION PROVIDED TYPICALLY REFERS TO UPSTREAM STRUCTURE OR REMOVAL LIMIT)

ID	STATION	OFFSET (FT)		LOCATION	204.0210 REMOVING MANHOLES EA	204.0220 REMOVING INLETS EA	204.0245.01 REMOVING STORM SEWER 12-INCH OR LESS LF	204.0245.02 REMOVING STORM SEWER 15-INCH LF	204.0245.03 REMOVING STORM SEWER 18-INCH LF	204.0245.04 REMOVING STORM SEWER 21-INCH LF	204.0245.05 REMOVING STORM SEWER 24-INCH LF	204.0245.06 REMOVING STORM SEWER 36-INCH LT	204.0245.07 REMOVING STORM SEWER 42-INCH LF	204.0245.08 REMOVING STORM SEWER 48-INCH LF	204.0245.09 REMOVING STORM SEWER 60-INCH LF	204.0245.10 REMOVING STORM SEWER 72-Inch LF	204.0250 ABANDONING MANHOLES EA	204.0280 SEALING PIPES EA	204.0291.S* ABANDONING SEWER CY
PROJECT 4570-12-71 CONT.																			
	189+19	34	RT	STH 42	---	1	30	---	---	---	---	---	---	---	---	---	---	---	---
	189+30	62.1	RT	STH 42	---	1	92	---	---	---	---	---	---	---	---	---	---	---	---
	189+90	66	LT	STH 42	---	1	71	---	---	---	---	---	---	---	---	---	---	---	---
	189+92	20.0	RT	STH 42	---	1	25	---	---	---	---	---	---	---	---	---	---	---	---
	190+03	102	RT	STH 42	---	1	34	---	---	---	---	---	---	---	---	---	---	---	---
	190+08	2.7	RT	STH 42	---	1	74	---	---	---	---	---	---	---	---	---	---	---	---
	190+19	74.9	RT	STH 42	---	1	52	---	---	---	---	---	---	---	---	---	---	---	---
	190+21	74.3	RT	STH 42	---	1	---	---	---	---	75	---	---	---	---	---	---	---	---
	190+23	116	RT	STH 42	---	1	25	---	---	---	---	---	---	---	---	---	---	---	---
	190+44	81.5	RT	STH 42	1	---	---	---	---	---	85	---	---	---	---	---	---	---	---
	190+66	13.2	LT	STH 42	---	1	56	---	---	---	---	---	---	---	---	---	---	---	---
	192+25	33.8	LT	STH 42	1	---	124	---	---	---	---	---	---	---	---	---	---	---	---
	192+59	69.7	LT	STH 42	---	1	48	---	---	---	---	---	---	---	---	---	---	---	---
	192+92	0	LT	STH 42	---	1	72	---	---	---	---	---	---	---	---	---	---	---	---
	192+95	62.9	LT	STH 42	---	1	30	---	---	---	---	---	---	---	---	---	---	---	---
PROJECT TOTALS					13	71	2096	903	222	0	160	0	0	0	1010	0	5	0	1005
TOTALS					96	242	9050	3405	3305	1595	535	85	730	165	1010	160	6	3	1405

*-ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

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REMOVING LIGHT POLES AND BASES, SALVAGE LIGHT POLE AND REMOVE BASES, AND REMOVING PULL BOXES

ID	STATION	TO	STATION	LOCATION	204.9060.01 REMOVING LIGHT POLES AND BASES EACH	SPV.0060.20 SALVAGE LIGHT POLE AND REMOVE BASES EACH	653.0905 * REMOVING PULL BOXES EACH
PROJECT 1500-37-71							
	70+00	-	82+00	USH 10, MEDIAN	2	6	7
	82+00	-	85+00	USH 10, MEDIAN	-	3	3
	85+00	-	93+50	USH 10, MEDIAN	-	6	6
	93+50	-	99+35	USH 10, MEDIAN	4	-	4
	99+35	-	103+00	USH 10, MEDIAN	3	-	2
	103+00	-	106+50	USH 10, MEDIAN	3	-	3
	106+50	-	110+00	USH 10, MEDIAN	3	-	-
	110+00	-	118+25	USH 10, MEDIAN	6	-	-
	118+25	-	122+00	USH 10, MEDIAN	2	1	1
	122+00	-	125+50	USH 10, MEDIAN	3	-	-
	125+50	-	128+15	USH 10, MEDIAN	2	-	-
	128+15	-	131+00	USH 10, MEDIAN	2	-	-
	131+00	-	133+75	USH 10, MEDIAN	2	-	-
	133+75	-	136+50	USH 10, MEDIAN	2	-	-
	133+75	-	136+50	USH 10, WB	1	-	-
	136+50	-	141+50	USH 10, MEDIAN	-	4	-
	141+50	-	145+25	USH 10, EB	4	-	-
	141+50	-	145+25	USH 10, WB	3	1	-
	145+25	-	148+35	USH 10, EB	3	-	-
	145+25	-	148+35	USH 10, WB	3	-	-
	148+35	-	152+25	USH 10, EB	4	-	-
	148+35	-	152+25	USH 10, WB	2	-	-
	148+35	-	152+25	USH 10, MEDIAN	1	-	-
	9+00	-	9+75	N. 18TH ST, LT	1	-	-
	PROJECT TOTALS				56	21	26
PROJECT 4570-12-71							
	152+25	-	155+90	STH 42, MEDIAN	3	-	-
	155+90	-	159+90	STH 42, EB, RT	1	-	-
	155+90	-	159+90	STH 42, WB, LT	1	-	-
	155+90	-	159+90	STH 42, MEDIAN	3	-	-
	159+90	-	163+50	STH 42, MEDIAN	2	-	-
	163+50	-	191+00	STH 42, MEDIAN	19	-	2
	191+00	-	195+00	STH 42, EB	2	-	-
	191+00	-	195+00	STH 42, WB	1	-	-
	PROJECT TOTALS				32	0	2
	TOTALS				88	21	28

* QUANTITIES SHOWN ELSEWHERE

REMOVING RAILROAD SIGNAL BASE

ID	STATION	LOCATION	204.9060.02 EACH
PROJECT 1500-37-71			
	100+00	USH 10, EB, RT	1
	100+77	USH 10, WB, LT	1
	TOTAL		2

REMOVING WOODEN GUARDRAIL & POSTS

ID	STATION	TO	STATION	LOCATION	204.9090.S.01 LF
PROJECT 1500-37-71					
	72+45	-	73+52	USH 10, EB	130
	TOTAL				130

REMOVING METAL RAILING

ID	STATION	TO	STATION	LOCATION	204.9090.S.02 LF
PROJECT 1500-37-71					
	70+35	-	70+60	USH 10, EB	25
	TOTAL				25

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

EARTHWORK SUMMARY

Project	From/To Station	Location	Common Excavation (1)	(Item # 205.0100)	Unexpanded Fill	Expanded Fill (13)	Mass Ordinate +/- (14)	Waste	Comment:
			Cut (1)	EBS Excavation (3)		Factor 1.33			
1500-37-71	70+00 - 93+50	USH 10, EB	7,333		1,428	1,899	5,434	5,434	
	70+00 - 93+50	USH 10, WB	5,821		791	1,052	4,769	4,769	
	93+75 - 152+25	USH 10	39,336		306	407	38,929	38,929	
	10+64 - 10+75	FLEETWOOD DR	68				68	68	
	9+40 - 9+50	N. 23RD ST (S)	37				37	37	
	10+82 - 10+95	N. 23RD ST (N)	59				59	59	
	9+10 - 9+64	MENCHL DR	93		1	1	92	92	
	9+35 - 9+48	N. 21ST ST (S)	50				50	50	
	10+76 - 11+00	N. 21ST ST (N)	90				90	90	
	9+40 - 9+50	N. 20TH ST (S)	37				37	37	
	10+74 - 10+85	PARK ROW BLVD, SB	31				31	31	
	10+50 - 10+60	PARK ROW BLVD, NB	30				30	30	
	10+51 - 10+65	ELM ST	45				45	45	
	9+00 - 9+37	N. 18TH ST (S)	220		1	1	219	219	
	10+75 - 10+90	N. 18TH ST (N)	65				65	65	
	9+30 - 9+49	N. 17TH ST (S)	57		1	1	56	56	
	10+75 - 10+85	N. 17TH ST (N)	33				33	33	
	9+35 - 9+49	N. 16TH ST (S)	44				44	44	
	10+75 - 10+85	N. 16TH ST (N)	33				33	33	
	9+35 - 9+49	N. 15TH ST (S)	42				42	42	
	10+75 - 11+00	N. 15TH ST (N)	82		1	1	81	81	
	9+30 - 9+49	N. 14TH ST (S)	62				62	62	
	10+75 - 10+85	N. 14TH ST (N)	37				37	37	
	9+35 - 9+50	N. 13TH ST	49				49	49	
	8+85 - 9+78	MENASHA AVE (S)	285		13	17	268	268	
	10+44 - 12+11	MENASHA AVE (N)	857		18	24	833	833	
	8+15 - 9+49	N. 12TH ST (S)	581		7	9	572	572	
	10+75 - 10+85	N. 12TH ST (N)	34				34	34	
	9+35 - 9+49	N. 11TH ST (S)	55				55	55	
	10+80 - 11+00	N. 11TH ST (N)	82				82	82	
	9+35 - 9+49	N. 10TH ST	51				51	51	
	9+00 - 9+49	N. 9TH ST (S)	189				189	189	
	10+75 - 11+25	N. 9TH ST (N)	171		1	1	170	170	
	8+50 - 9+50	N. 8TH ST (S)	424		1	1	423	423	
	10+85 - 11+50	N. 8TH ST (N)	291		1	1	290	290	
		UNDISTRIBUTED		3,001			3,001	3,001	LOCATION TO BE DETERMINED BY ENGINEER
Project Totals			59,775		2,570	3,418	56,357	56,357	
4570-12-71	152+25 - 185+75	STH 42	18,093		464	617	17,476	14,217	EXCESS EXCAVATION TO BE USED IN ROUNDABOUT CIRCLE
	186+00 - 194+89	STH 42, EB	1,903		857	1,140	763	763	
	186+00 - 196+50	STH 42, WB	1,807		537	714	1,093	1,093	
	9+10 - 9+49	W. LINCOLN BLVD (S)	97		2	3	94	94	
	10+75 - 10+85	W. LINCOLN BLVD (N)	27				27	27	
	9+10 - 9+49	E. LINCOLN BLVD (S)	105				105	105	
	10+75 - 10+85	E. LINCOLN BLVD (N)	28				28	28	
	9+35 - 9+49	N. 6TH ST (S)	48				48	48	
	10+75 - 11+00	N. 6TH ST (N)	79				79	79	
	10+51 - 10+60	N. 5TH ST	32				32	32	
	0+00 - 3+77	ROUNDABOUT CIRCLE	599		2,901	3,858	-3,259		
	10+75 - 13+59	MARITIME DR, NB	904		94	125	779	779	
	12+50 - 14+15	MARITIME DR, MEDIAN EAST	372		40	53	319	319	
	11+25 - 13+33	MARITIME DR, SB	514		187	249	265	265	
		UNDISTRIBUTED		1,617			1,617	1,617	LOCATION TO BE DETERMINED BY ENGINEER
Project Totals			26,225		5,082	6,759	19,466	19,466	
Totals			86,000		7,652	10,177	75,823	75,823	

1) Common Excavation includes existing asphalt and concrete. Item number 205.0100
3) EBS Excavation to be backfilled with Breaker Run
13) Expanded Fill Factor = 1.33, Expanded Fill = Unexpanded Fill * Fill Factor
14) The Mass Ordinate + or - Qty calculated for the section. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the section.

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

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BACKFILL CONTROLLED LOW STRENGTH

ID	STRUCTURE	TO	STRUCTURE	LOCATION	209.0200.S CY
PROJECT 1500-37-71					
	MH-118.0	-	MH-120.0	USH 10	150
	MH-120.0	-	MH-122.0	USH 10 EB	210
	MH-122.0	-	MH-126.0	USH 10 EB	250
	MH-122.2	-	MH-122.1	9TH STREET	95
	MH-122.2	-	MH-122.0	9TH STREET	45
			PROJECT TOTAL		750
PROJECT 4570-12-71					
	MH-126.0	-	MH-128.0	STH 42	180
	MH-128.0	-	MH-130.0	STH 42	105
			PROJECT TOTAL		285
				TOTAL	1035

TEMPORARY PAVEMENT

ID	PROJECT STAGE	STA.	TO	STA.	OFFSET*	*305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	*455.0605 TACK COAT GAL	465.0125 ASPHALTIC SURFACE TEMPORARY TON	465.0310 ASPHALTIC CURB LF	*690.0150 SAWING ASPHALT LF	*690.0250 SAWING CONCRETE LF	REMARKS
PROJECT 1500-37-71												
	1A	USH 10/8TH STREET INTERSECTION				675	---	275	30	---	---	COVERING UNDERGROUND INSTALLATION
	1C	USH 10/11TH STREET INTERSECTION				875	---	360	60	---	---	COVERING UNDERGROUND INSTALLATION
	2A	USH 10/18TH STREET INTERSECTION				840	---	350	40	---	---	COVERING UNDERGROUND INSTALLATION
	2A	USH 10/16TH AND 17TH STREET INTERSECTIONS				950	---	400	---	---	---	UNDISTRIBUTED FOR MAINTAINING ACCESS
		PROJECT TOTALS				3340	0	1385	130	0	0	
PROJECT 4570-12-71												
	1A	190'EB'+33	-	190'EB'+44	RT	55	0.2	22	36	8	55	ROUNDABOUT STAGE 1
	1A	190'EB'+89	-	191'EB'+73	RT	60	---	25	---	---	145	ROUNDABOUT STAGE 1
	1A	192'EB'+25	-	192'EB'+40	LT & RT	30	0.1	13	10	6	80	ROUNDABOUT STAGE 1
	1A	189'EB'+08	-	190'EB'+10	RT	260	---	106	---	---	---	ROUNDABOUT STAGE 2
	1A	190'EB'+54	-	192'EB'+74	LT	125	---	51	---	---	---	ROUNDABOUT STAGE 2
	1A	195'EB'+42	-	195'EB'+60	LT	10	---	3	---	---	---	ROUNDABOUT STAGE 2
		PROJECT TOTALS				540	0.3	220	46	14	280	
		TOTALS				3880	0.3	1605	176	14	280	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

BASE AGGREGATE DENSE AND WATER

ID	STATION	TO	STATION	LOCATION	305.0110 3/4-INCH TON	305.0120 * 1 1/4-INCH TON	311.0110 BREAKER RUN TON	624.0100 * WATER MGAL	REMARKS
PROJECT 1500-47-71									
	46+84	-	70+00	USH 10, EB	-	100	-	1	
	45+40	-	70+00	USH 10, WB	-	100	-	1	
	8+95	-	9+48	CTH R	7	-	-	-	AGGREGATE SHOULDER
	11+21	-	11+38	CTH R	3	-	-	-	AGGREGATE SHOULDER
	PROJECT TOTALS				10	200	0	2	
PROJECT 1500-37-71									
	70+00	-	72+50	USH 10, EB	-	292	515	8	
	70+00	-	72+50	USH 10, WB	-	301	549	9	
	70+00	-	73+01	USH 10, EB, LT	-	183	366	5	TURN LANE/MEDIAN
	72+50	-	82+03	USH 10, EB	-	1,228	2,215	35	
	72+50	-	82+03	USH 10, WB	-	1,238	2,202	34	
	84+63	-	93+50	USH 10, EB	-	1,108	1,978	31	
	84+63	-	93+50	USH 10, WB	-	1,101	1,973	31	
	90+93	-	93+50	USH 10, EB, LT	-	221	343	6	TURN LANE/MEDIAN
	93+50	-	95+59	USH 10, WB, RT	-	113	226	3	TURN LANE/MEDIAN
	93+50	-	99+35	USH 10, EB	-	755	1,337	21	
	93+50	-	99+35	USH 10, WB	-	800	1,306	21	
	98+66	-	100+05	USH 10, EB, LT	-	89	179	3	MEDIAN
	99+35	-	103+00	USH 10, EB	-	430	781	12	
	99+35	-	103+00	USH 10, WB	-	458	825	13	
	101+01	-	103+00	USH 10, EB, LT	-	107	215	3	TURN LANE/MEDIAN
	103+00	-	104+98	USH 10, WB, RT	-	106	213	3	TURN LANE/MEDIAN
	103+00	-	106+50	USH 10, EB	-	436	784	12	
	103+00	-	106+50	USH 10, WB	-	435	749	12	
	105+91	-	108+18	USH 10, EB, LT	-	157	313	5	MEDIAN
	106+50	-	110+00	USH 10, EB	-	439	759	12	
	106+50	-	110+00	USH 10, WB	-	403	726	11	
	109+38	-	110+57	USH 10, EB, LT	-	84	168	3	MEDIAN
	110+00	-	118+25	USH 10, EB	-	1,068	1,810	29	
	110+00	-	118+25	USH 10, WB	-	1,006	1,832	28	
	113+86	-	118+25	USH 10, EB, LT	-	352	659	10	TURN LANE/MEDIAN
	118+25	-	122+00	USH 10, EB	-	440	769	12	
	118+25	-	122+00	USH 10, WB	-	451	778	12	
	118+25	-	122+67	USH 10, WB, RT	-	412	761	12	TURN LANE/MEDIAN
	122+00	-	125+50	USH 10, EB	-	448	780	12	
	122+00	-	125+50	USH 10, WB	-	455	780	12	
	124+92	-	126+11	USH 10, EB, LT	-	82	164	2	MEDIAN
	125+50	-	128+15	USH 10, EB	-	329	580	9	
	125+50	-	128+15	USH 10, WB	-	329	580	9	
	127+53	-	128+76	USH 10, EB, LT	-	85	170	3	MEDIAN
	128+15	-	131+00	USH 10, EB	-	362	626	10	
	128+15	-	131+00	USH 10, WB	-	344	626	10	
	130+32	-	131+59	USH 10, EB, LT	-	88	177	3	MEDIAN
	131+00	-	133+75	USH 10, EB	-	338	588	9	
	131+00	-	134+75	USH 10, WB	-	499	839	13	
	132+43	-	135+33	USH 10, EB, LT	-	166	332	5	TURN LANE/MEDIAN

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

BASE AGGREGATE DENSE AND WATER (CONTINUED)

ID	STATION	TO	STATION	LOCATION	305.0110 3/4-INCH TON	305.0120 * 1 1/4-INCH TON	311.0110 BREAKER RUN TON	624.0100 * WATER MGAL	REMARKS
PROJECT 1500-37-71									
	133+75	-	136+50	USH 10, EB	-	334	596	9	
	134+75	-	136+50	USH 10, WB	-	210	384	6	
	136+50	-	141+50	USH 10, EB	-	620	1,084	17	
	136+50	-	141+50	USH 10, WB	-	641	1,102	17	
	138+19	-	141+50	USH 10, EB, LT	-	266	495	8	TURN LANE/MEDIAN
	141+50	-	145+25	USH 10, EB	-	449	775	15	
	141+50	-	147+69	USH 10, WB, RT	-	527	973	15	TURN LANE/MEDIAN
	141+50	-	148+35	USH 10, WB	-	800	1,427	25	
	145+25	-	148+35	USH 10, EB	-	353	639	10	
	146+40	-	148+35	USH 10, EB, LT	-	122	245	4	TURN LANE/MEDIAN
	148+35	-	150+11	USH 10, WB, RT	-	95	191	3	TURN LANE/MEDIAN
	148+35	-	152+25	USH 10, EB	-	440	799	12	
	148+35	-	152+25	USH 10, WB	-	454	818	13	
	149+03	-	152+25	USH 10, EB, LT	-	183	365	5	TURN LANE/MEDIAN
	10+25	-	10+85	FLEETWOOD DR	-	163	317	5	
	9+40	-	9+75	23RD ST	-	70	133	2	
	10+49	-	10+95	23RD ST	-	108	203	3	
	9+10	-	9+74	MENCHL DR	-	100	200	3	
	9+35	-	9+75	21ST ST	-	100	142	2	
	10+49	-	11+00	21ST ST	-	106	200	3	
	9+40	-	9+75	20TH ST	-	70	129	2	
	10+49	-	10+85	PARK ROW BLVD (SB)	-	52	100	2	
	10+25	-	10+60	PARK ROW BLVD (NB)	-	51	98	1	
	10+25	-	10+65	ELM ST	-	69	127	2	
	9+00	-	9+75	18TH ST	-	234	438	7	
	10+49	-	11+15	18TH ST	-	102	194	3	
	9+25	-	9+75	17TH ST	-	76	140	2	
	10+49	-	10+98	17TH ST	-	66	125	2	
	9+23	-	9+75	16TH ST	-	71	134	2	
	10+49	-	10+85	16TH ST	-	61	115	2	
	9+35	-	9+75	15TH ST	-	66	122	2	
	10+49	-	11+00	15TH ST	-	83	151	2	
	9+30	-	9+75	14TH ST	-	76	138	2	
	10+49	-	10+85	14TH ST	-	71	133	2	
	9+35	-	9+75	13TH ST	-	67	123	2	
	10+25	-	12+11	MENASHA AVE (NMN)	-	383	692	11	
	8+15	-	9+75	12TH ST	-	249	403	7	
	10+49	-	10+85	12TH ST	-	62	116	2	
	8+85	-	9+86	MENASHA AVE (SMN)	-	223	358	6	
	9+35	-	9+75	11TH ST	-	77	144	2	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

BASE AGGREGATE DENSE AND WATER (CONTINUED)

ID	STATION	TO	STATION	LOCATION	305.0110 3/4-INCH TON	305.0120 * 1 1/4-INCH TON	311.0110 BREAKER RUN TON	624.0100 * WATER MGAL	REMARKS
PROJECT 1500-37-71									
	10+49	-	11+27	11TH ST	-	132	250	4	
	9+35	-	9+75	10TH ST	-	75	150	2	
	9+00	-	9+75	9TH ST	-	123	219	3	
	10+49	-	12+70	9TH ST	-	251	450	7	
	8+50	-	9+75	8TH ST	-	256	430	7	
	10+50	-	12+90	8TH ST	-	695	560	13	
	10+37	-	11+45	EMERGENCY VEHICLE RR CROSSING	-	80	-	1	
	UNDISTRIBUTED			EBS BACKFILL	-	-	6,000	60	
	PROJECT TOTALS				0	27,700	48,700	770	
PROJECT 4570-12-71									
	152+25	-	155+90	STH 42, EB	-	113	80	2	
	152+25	-	155+90	STH 42, WB	-	438	756	12	
	155+03	-	156+81	STH 42, EB, LT	-	356	712	11	MEDIAN
	155+90	-	159+90	STH 42, EB	-	252	400	7	
	155+90	-	159+90	STH 42, WB	-	494	900	14	
	159+26	-	160+45	STH 42, EB, LT	-	388	780	12	MEDIAN
	159+90	-	163+50	STH 42, EB	-	206	280	5	
	159+90	-	163+50	STH 42, WB	-	460	818	13	
	162+93	-	164+17	STH 42, EB, LT	-	351	703	11	MEDIAN
	163+50	-	175+00	STH 42, EB	-	539	715	15	
	163+50	-	175+00	STH 42, WB	-	1,530	2,700	45	
	175+00	-	185+00	STH 42, EB	-	1,401	2,590	40	
	175+00	-	185+00	STH 42, WB	-	1,400	2,430	38	
	183+63	-	184+92	STH 42, EB, LT	-	950	1,890	28	MEDIAN
	185+00	-	188+97	STH 42, EB	-	239	344	6	
	185+00	-	189+01	STH 42, WB	-	545	966	15	
	190+42	-	194+45	STH 42 (MEMORIAL DR), WB	-	537	967	15	
	190+44	-	194+90	STH 42 (MEMORIAL DR), EB	-	768	1,500	23	INCLUDES PARKING LOT
	194+83	-	196+41	STH 42 (MEMORIAL DR), EB, LT	-	500	995	15	TURN LANE/MEDIAN
	9+10	-	9+75	LINCOLN BLVD, SB (SL)	-	109	181	3	
	10+49	-	10+85	LINCOLN BLVD, SB (SL)	-	71	137	2	
	9+10	-	9+75	LINCOLN BLVD, NB (NL)	-	63	111	2	
	10+49	-	10+85	LINCOLN BLVD, NB (NL)	-	70	140	2	
	9+35	-	9+75	6TH ST	-	74	90	2	
	10+49	-	11+00	6TH ST	-	72	135	2	
	10+25	-	10+60	5TH ST	-	74	145	2	
	10+75	-	13+59	MARITIME DR, NB (NMI)	-	200	290	5	INCLUDES MEDIAN
	12+50	-	14+15	MARITIME DR, NB (NME)	-	401	640	10	INCLUDES MEDIAN
	10+75	-	13+33	MARITIME DR, SB (SMI)	-	226	385	6	
	0+00	-	3+77	MARITIME RAB (RCC)	-	373	320	7	
	UNDISTRIBUTED			EBS BACKFILL	-	-	3,200	32	
	PROJECT TOTALS				0	13,200	26,300	402	
	TOTALS				10	41,100	75,000	1,174	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

BASE PATCHING

ID	STATION	TO	STATION	LOCATION	390.0303 BASE PATCHING SY	415.0610 DRILLED * TIE BARS EACH	416.0620 DRILLED * DOWEL BARS EACH	REMARKS
PROJECT 1500-47-71								
	38+04	-	38+58	USH 10, EB	68	37	16	
	38+60	-	38+75	USH 10, EB	21	10	16	
	38+70	-	38+76	USH 10, MEDIAN	23	1	60	
	38+87	-	39+11	USH 10, RT	11	2	32	
	38+85	-	39+21	USH 10, LT	139	23	48	
	39+24	-	39+62	USH 10, RT	172	9	48	
	39+86	-	40+39	USH 10, WB	74	31	16	
	40+28	-	40+60	USH 10, WB	96	20	48	
	40+86	-	40+93	USH 10, EB	8	3	32	
	40+90	-	40+96	USH 10, WB	7	3	32	
	40+91	-	41+03	USH 10, WB	18	8	16	
	41+17	-	41+31	USH 10, WB	35	4	32	
	41+19	-	41+31	USH 10, WB	17	3	16	
	42+11	-	42+31	USH 10, WB	76	13	48	
	43+10	-	43+29	USH 10, WB	25	8	16	
	43+26	-	43+32	USH 10, EB	8	4	16	
	43+41	-	43+51	USH 10, EB	12	8	16	
	43+73	-	43+79	USH 10, EB	5	4	16	
	45+05	-	45+32	USH 10, WB	56	8	32	
	45+91	-	46+02	USH 10, EB	14	8	16	
	47+49	-	47+55	USH 10, MEDIAN	3	4	8	
	48+43	-	48+49	USH 10, EB	11	4	32	
	48+58	-	48+76	USH 10, WB	33	7	24	
	53+53	-	53+70	USH 10, MEDIAN	15	8	8	
	54+28	-	54+44	USH 10, WB	20	12	16	
	54+44	-	54+58	USH 10, WB	19	10	16	
	54+58	-	54+69	USH 10, WB	8	6	6	
	56+17	-	56+56	USH 10, WB	48	30	16	
	57+70	-	57+92	USH 10, WB	26	16	16	
	57+86	-	58+09	USH 10, MEDIAN	28	16	16	
	58+36	-	58+42	USH 10, WB	8	4	16	
	59+91	-	60+03	USH 10, EB	7	8	8	
	63+70	-	63+78	USH 10, EB	3	4	8	
	64+98	-	65+04	USH 10, WB	8	4	16	
	UNDISTRIBUTED			USH 10	128	40	82	FIELD LOCATED BY ENGINEER
	TOTALS				1,250	380	860	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

CONCRETE PAVEMENT

ID	CATEGORY	STATION	TO	STATION	LOCATION	320.0155 CONCRETE BASE 9-INCH SY	405.0100 * COLORING CONCRETE WISDOT RED CY	415.0080 CONCRETE PAVEMENT 8-INCH SY	415.0085 CONCRETE PAVEMENT 8.5-INCH SY	415.0095 CONCRETE PAVEMENT 9.5-INCH SY	415.0210 CONCRETE PAVEMENT GAPS EACH	415.1080 CONCRETE PAVEMENT HES 8-INCH SY	415.1085 CONCRETE PAVEMENT HES 8.5-INCH SY	415.4100 JOINT FILLING SY	416.0512 TRUCK APRON 12-INCH SY	416.0610 * DRILLED TIE BARS EACH	416.0620 * DRILLED DOWEL BARS EACH	REMARKS
PROJECT 1500-47-71																		
	0010																	
		49+62	-	50+44	USH 10, WB	-	-	135	-	-	-	-	-	-	-	32	-	MOBILE PARK ENTRANCE
		PROJECT TOTALS				0	0	135	0	0	0	0	0	0	0	32	0	
PROJECT 1500-37-71																		
	0010																	
		70+00	-	72+50	USH 10, EB	-	-	-	676	-	-	-	-	731	-	-	22	
		70+00	-	72+50	USH 10, WB	-	-	-	687	-	-	-	-	713	-	-	21	
		70+00	-	73+01	USH 10, EB	-	-	-	438	-	-	-	-	438	-	-	-	TURN LANE/MEDIAN
		72+50	-	82+03	USH 10, EB	-	-	-	2,648	-	-	-	-	2,868	-	-	-	
		72+50	-	82+03	USH 10, WB	-	-	-	2,647	-	-	-	-	2,856	-	-	-	
		84+63	-	93+50	USH 10, EB	-	-	-	2,352	-	-	-	111	2,651	-	-	-	HES 23RD INTERSECTION
		84+63	-	93+50	USH 10, WB	-	-	-	2,353	-	-	-	111	2,649	-	-	-	HES 23RD INTERSECTION
		90+93	-	93+50	USH 10, EB	-	-	-	215	-	-	-	108	215	-	-	-	TURN LANE/MEDIAN
		93+50	-	95+59	USH 10, WB	-	-	-	156	-	-	-	108	156	-	-	-	TURN LANE/MEDIAN
		93+50	-	99+35	USH 10, EB	-	-	-	1,514	-	-	-	111	1,735	-	-	-	HES 23RD INTERSECTION
		93+50	-	99+35	USH 10, WB	-	-	-	1,514	-	-	-	111	1,742	-	-	-	HES 23RD INTERSECTION
		98+66	-	100+05	USH 10, EB	-	-	-	215	-	-	-	-	215	-	-	-	MEDIAN
		99+35	-	103+00	USH 10, EB	-	-	-	1,014	-	-	-	-	1,078	-	-	-	
		99+35	-	103+00	USH 10, WB	-	-	-	1,014	-	-	-	-	1,081	-	-	-	
		101+01	-	103+00	USH 10, EB	-	-	-	251	-	-	-	-	251	-	-	-	TURN LANE/MEDIAN
		103+00	-	104+98	USH 10, WB	-	-	-	248	-	-	-	-	248	-	-	-	TURN LANE/MEDIAN
		103+00	-	106+50	USH 10, EB	-	-	-	972	-	-	-	-	1,033	-	-	-	
		103+00	-	106+50	USH 10, WB	-	-	-	972	-	-	-	-	1,033	-	-	-	
		105+91	-	108+18	USH 10, EB	-	-	-	367	-	-	-	-	367	-	-	-	MEDIAN
		106+50	-	110+00	USH 10, EB	-	-	-	972	-	-	-	-	1,031	-	-	-	
		106+50	-	110+00	USH 10, WB	-	-	-	972	-	-	-	-	1,015	-	-	-	
		109+38	-	110+57	USH 10, EB	-	-	-	197	-	-	-	-	197	-	-	-	MEDIAN
		110+00	-	118+25	USH 10, EB	-	-	-	2,292	-	-	-	-	2,457	-	-	-	
		110+00	-	118+25	USH 10, WB	-	-	-	2,291	-	-	-	-	2,455	-	-	-	
		113+86	-	118+25	USH 10, EB	-	-	-	720	-	-	-	-	720	-	-	-	TURN LANE/MEDIAN
		118+25	-	122+00	USH 10, EB	-	-	-	1,041	-	-	-	-	1,103	-	-	-	
		118+25	-	122+00	USH 10, WB	-	-	-	1,043	-	-	-	-	1,108	-	-	-	
		118+25	-	122+67	USH 10, WB	-	-	-	861	-	-	-	-	861	-	-	-	TURN LANE/MEDIAN
		122+00	-	125+50	USH 10, EB	-	-	-	972	-	-	-	-	1,032	-	-	-	
		122+00	-	125+50	USH 10, WB	-	-	-	972	-	-	-	-	1,032	-	-	-	
		124+92	-	126+11	USH 10, EB	-	-	-	191	-	-	-	-	191	-	-	-	MEDIAN
		125+50	-	128+15	USH 10, EB	-	-	-	736	-	-	-	-	779	-	-	-	
		125+50	-	128+15	USH 10, WB	-	-	-	736	-	-	-	-	779	-	-	-	
		127+53	-	128+76	USH 10, EB	-	-	-	201	-	-	-	-	201	-	-	-	MEDIAN
		128+15	-	131+00	USH 10, EB	-	-	-	792	-	-	-	-	838	-	-	-	
		128+15	-	131+00	USH 10, WB	-	-	-	792	-	-	-	-	838	-	-	-	
		130+32	-	131+59	USH 10, EB	-	-	-	211	-	-	-	-	211	-	-	-	MEDIAN
		131+00	-	133+75	USH 10, EB	-	-	-	764	-	-	-	-	813	-	-	-	
		131+00	-	134+75	USH 10, WB	-	-	-	1,041	-	-	-	-	1,105	-	-	-	
		132+43	-	135+33	USH 10, EB	-	-	-	388	-	-	-	-	388	-	-	-	TURN LANE/MEDIAN

* QUANTITIES SHOWN ELSEWHERE

NOTE: QUANTITIES FOR JOINT FILLING IN CURB & GUTTER AT TURN LANE / MEDIAN INCLUDED IN MAINLINE QUANTITY

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

CONCRETE PAVEMENT (CONTINUED)

ID	CATEGORY	STATION	TO	STATION	LOCATION	320.0155 CONCRETE BASE 9-INCH SY	405.0100 * COLORING CONCRETE WISDOT RED CY	415.0080 CONCRETE PAVEMENT 8-INCH SY	415.0085 CONCRETE PAVEMENT 8.5-INCH SY	415.0095 CONCRETE PAVEMENT 9.5-INCH SY	415.0210 CONCRETE PAVEMENT GAPS EACH	415.1080 CONCRETE PAVEMENT HES 8-INCH SY	415.1085 CONCRETE PAVEMENT HES 8.5-INCH SY	415.4100 JOINT FILLING SY	416.0512 TRUCK APRON 12-INCH SY	416.0610 * DRILLED TIE BARS EACH	416.0620 * DRILLED DOWEL BARS EACH	REMARKS
PROJECT 1500-37-71																		
	0010	133+75	-	136+50	USH 10, EB	-	-	-	763	-	-	-	-	807	-	-	-	
		134+75	-	136+50	USH 10, WB	-	-	-	487	-	-	-	-	513	-	-	-	
		136+50	-	141+50	USH 10, EB	-	-	-	1,389	-	-	-	-	1,487	-	-	-	
		136+50	-	141+50	USH 10, WB	-	-	-	1,387	-	-	-	-	1,484	-	-	-	
		138+19	-	141+50	USH 10, EB	-	-	-	508	-	-	-	-	508	-	-	-	TURN LANE/MEDIAN
		141+50	-	145+25	USH 10, EB	-	-	-	1,041	-	-	-	-	1,104	-	-	-	
		141+50	-	147+69	USH 10, WB	-	-	-	1,108	-	-	-	-	1,108	-	-	-	TURN LANE/MEDIAN
		141+50	-	148+35	USH 10, WB	-	-	-	1,903	-	-	-	-	2,024	-	-	-	
		145+25	-	148+35	USH 10, EB	-	-	-	861	-	-	-	-	912	-	-	-	
		146+40	-	148+35	USH 10, EB	-	-	-	247	-	-	-	-	247	-	-	-	TURN LANE/MEDIAN
		148+35	-	150+11	USH 10, WB	-	-	-	221	-	-	-	-	221	-	-	-	TURN LANE/MEDIAN
		148+35	-	152+25	USH 10, EB	-	-	-	1,083	-	-	-	-	1,143	-	-	-	
		148+35	-	152+25	USH 10, WB	-	-	-	1,083	-	-	-	-	1,138	-	-	-	
		149+03	-	152+25	USH 10, EB	-	-	-	441	-	-	-	-	441	-	-	-	TURN LANE/MEDIAN
		10+25	-	10+85	FLEETWOOD DR	-	-	411	-	-	-	-	-	444	-	3	20	
		9+40	-	9+75	23RD ST	-	-	-	-	-	-	160	-	180	-	-	22	
		10+49	-	10+95	23RD ST	-	-	-	-	-	-	255	-	283	-	-	26	
		9+10	-	9+74	MENCHL DR	-	-	220	-	-	-	-	-	252	-	-	16	
		9+35	-	9+75	21ST ST	-	-	171	-	-	-	-	-	178	-	-	20	
		10+49	-	11+00	21ST ST	-	-	212	-	-	-	-	-	241	-	-	23	
		9+40	-	9+75	20TH ST	-	-	153	-	-	-	-	-	175	-	-	20	
		10+49	-	10+85	PARK ROW BLVD (SB)	-	-	112	-	-	-	-	-	131	-	-	16	
		10+25	-	10+60	PARK ROW BLVD (NB)	-	-	109	-	-	-	-	-	128	-	-	17	
		10+25	-	10+65	ELM ST	-	-	147	-	-	-	-	-	155	-	-	22	
		9+00	-	9+75	18TH ST	-	-	586	-	-	-	-	-	608	-	-	38	
		10+49	-	11+15	18TH ST	-	-	255	-	-	-	-	-	279	-	9	26	
		9+25	-	9+75	17TH ST	-	-	162	-	-	-	-	-	167	-	3	16	
		10+49	-	10+98	17TH ST	-	-	146	-	-	-	-	-	168	-	4	16	
		9+23	-	9+75	16TH ST	-	-	156	-	-	-	-	-	180	-	4	16	
		10+49	-	10+85	16TH ST	-	-	131	-	-	-	-	-	153	-	-	16	
		9+35	-	9+75	15TH ST	-	-	140	-	-	-	-	-	150	-	-	16	
		10+49	-	11+00	15TH ST	-	-	170	-	-	-	-	-	198	-	-	16	
		9+30	-	9+75	14TH ST	-	-	158	-	-	-	-	-	170	-	-	16	
		10+49	-	10+85	14TH ST	-	-	161	-	-	-	-	-	165	-	-	16	
		9+35	-	9+75	13TH ST	-	-	141	-	-	-	-	-	151	-	-	16	
		10+25	-	12+11	MENASHA AVE	-	-	940	-	-	-	-	-	1,028	-	-	29	
		8+15	-	9+75	12TH ST	-	-	487	-	-	-	-	-	527	-	-	16	
		10+49	-	10+85	12TH ST	-	-	135	-	-	-	-	-	142	-	-	16	
		8+85	-	9+86	MENASHA AVE	-	-	432	-	-	-	-	-	461	-	-	22	
		9+35	-	9+75	11TH ST	-	-	170	-	-	-	-	-	192	-	-	20	
		10+49	-	11+27	11TH ST	-	-	316	-	-	-	-	-	346	-	10	24	
		9+35	-	9+75	10TH ST	-	-	165	-	-	-	-	-	189	-	-	18	
		9+00	-	9+75	9TH ST	-	-	250	-	-	-	-	-	274	-	-	16	
		10+49	-	12+70	9TH ST	-	-	667	-	-	-	-	-	757	-	-	16	
		8+50	-	9+75	8TH ST	-	-	506	-	-	-	-	-	549	-	-	23	

* QUANTITIES SHOWN ELSEWHERE

NOTE: QUANTITIES FOR JOINT FILLING IN CURB & GUTTER AT TURN LANE / MEDIAN INCLUDED IN MAINLINE QUANTITY

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

CONCRETE PAVEMENT (CONTINUED)

ID	CATEGORY	STATION	TO	STATION	LOCATION	320.0155 CONCRETE BASE 9-INCH SY	405.0100 * COLORING CONCRETE WISDOT RED CY	415.0080 CONCRETE PAVEMENT 8-INCH SY	415.0085 CONCRETE PAVEMENT 8.5-INCH SY	415.0095 CONCRETE PAVEMENT 9.5-INCH SY	415.0210 CONCRETE PAVEMENT GAPS EACH	415.1080 CONCRETE PAVEMENT HES 8-INCH SY	415.1085 CONCRETE PAVEMENT HES 8.5-INCH SY	415.4100 JOINT FILLING SY	416.0512 TRUCK APRON 12-INCH SY	416.0610 * DRILLED TIE BARS EACH	416.0620 * DRILLED DOWEL BARS EACH	REMARKS
PROJECT 1500-37-71																		
	0010																	
		10+50	-	12+90	8TH ST	-	-	508	-	-	-	-	-	563	-	-	-	
					18TH ST INTERSECTION	-	-	-	-	-	1	-	-	-	-	-	-	
					17TH ST INTERSECTION	-	-	-	-	-	1	-	-	-	-	-	-	
					16TH ST INTERSECTION	-	-	-	-	-	1	-	-	-	-	-	-	
					11TH ST INTERSECTION	-	-	-	-	-	1	-	-	-	-	-	-	
					8TH ST INTERSECTION	-	-	-	-	-	1	-	-	-	-	-	-	
					UNDISTRIBUTED	-	-	833	-	-	-	100	100	865	-	-	-	
		CATEGORY 0010 TOTALS				0	0	9,150	50,960	0	5	515	760	64,800	0	33	653	
	0020																	
					18TH ST INTERSECTION	-	46	-	98	-	-	-	-	-	-	-	96	COLORED CROSSWALKS
					15TH ST INTERSECTION	-	37	-	98	-	-	-	-	-	-	-	96	COLORED CROSSWALKS
					11TH ST INTERSECTION	-	41	-	98	-	-	-	-	-	-	-	96	COLORED CROSSWALKS
					9TH ST INTERSECTION	-	38	-	98	-	-	-	-	-	-	-	96	COLORED CROSSWALKS
					8TH ST INTERSECTION	-	43	-	98	-	-	-	-	-	-	-	96	COLORED CROSSWALKS
		CATEGORY 0020 TOTALS				0	205	0	490	0	0	0	0	0	0	0	480	
		PROJECT TOTALS				0	205	9,150	51,450	0	5	515	760	64,800	0	33	1,133	
PROJECT 4570-12-71																		
	0010																	
		152+25	-	155+90	STH 42, EB	-	-	-	1,016	-	-	-	-	1,083	-	-	-	
		152+25	-	155+90	STH 42, WB	-	-	-	1,014	-	-	-	-	1,081	-	-	-	
		155+03	-	156+81	STH 42, EB	-	-	-	347	-	-	-	-	347	-	-	-	MEDIAN
		155+90	-	159+90	STH 42, EB	-	-	-	1,111	-	-	-	-	1,179	-	-	-	
		155+90	-	159+90	STH 42, WB	-	-	-	1,111	-	-	-	-	1,179	-	-	-	
		159+26	-	160+45	STH 42, EB	-	-	-	193	-	-	-	-	19	-	-	-	MEDIAN
		159+90	-	163+50	STH 42, EB	-	-	-	1,000	-	-	-	-	1,070	-	-	-	
		159+90	-	163+50	STH 42, WB	-	-	-	1,000	-	-	-	-	1,065	-	-	-	
		162+93	-	164+17	STH 42, EB	-	-	-	201	-	-	-	-	201	-	-	-	MEDIAN
		163+50	-	175+00	STH 42, EB	-	-	-	3,194	-	-	-	-	3,445	-	-	-	
		163+50	-	175+00	STH 42, WB	-	-	-	3,194	-	-	-	-	3,441	-	-	-	
		175+00	-	185+00	STH 42, EB	-	-	-	2,912	-	-	-	-	3,113	-	-	-	
		175+00	-	185+00	STH 42, WB	-	-	-	2,778	-	-	-	-	2,975	-	-	-	
		183+63	-	184+92	STH 42, EB	-	-	-	194	-	-	-	-	194	-	-	-	MEDIAN
		185+00	-	188+97	STH 42, EB	-	-	-	1,089	-	-	-	-	1,224	-	-	-	
		185+00	-	189+01	STH 42, WB	-	-	-	1,064	-	-	-	-	1,196	-	-		
		190+42	-	194+45	STH 42, WB	27	-	-	1,233	-	-	-	-	1,393	-	-	22	
		190+44	-	194+90	STH 42, EB	27	-	-	1,371	-	-	-	-	1,543	-	-	23	
		194+83	-	196+41	STH 42, EB	246	-	-	-	-	-	-	-	-	-	103	-	TURN LANE/MEDIAN
		9+10	-	9+75	LINCOLN BLVD, SB	-	-	168	-	-	-	-	-	189	-	-	16	
		10+49	-	10+85	LINCOLN BLVD, SB	-	-	100	-	-	-	-	-	107	-	-	16	
		9+10	-	9+75	LINCOLN BLVD, NB	-	-	167	-	-	-	-	-	187	-	-	16	
		10+49	-	10+85	LINCOLN BLVD, NB	-	-	100	-	-	-	-	-	107	-	-	16	
		9+35	-	9+75	6TH ST	-	-	146	-	-	-	-	-	170	-	-	16	
		10+49	-	11+00	6TH ST	-	-	177	-	-	-	-	-	205	-	-	16	

* QUANTITIES SHOWN ELSEWHERE

NOTE: QUANTITIES FOR JOINT FILLING IN CURB & GUTTER AT TURN LANE / MEDIAN INCLUDED IN MAINLINE QUANTITY

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

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CONCRETE PAVEMENT (CONTINUED)

ID	CATEGORY	STATION	TO	STATION	LOCATION	320.0155 CONCRETE BASE 9-INCH SY	405.0100 * COLORING CONCRETE WISDOT RED CY	415.0080 CONCRETE PAVEMENT 8-INCH SY	415.0085 CONCRETE PAVEMENT 8.5-INCH SY	415.0095 CONCRETE PAVEMENT 9.5-INCH SY	415.0210 CONCRETE PAVEMENT GAPS EACH	415.1080 CONCRETE PAVEMENT HES 8-INCH SY	415.1085 CONCRETE PAVEMENT HES 8.5-INCH SY	415.4100 JOINT FILLING SY	416.0512 TRUCK APRON 12-INCH SY	416.0610 * DRILLED TIE BARS EACH	416.0620 * DRILLED DOWEL BARS EACH	REMARKS
PROJECT 4570-12-71																		
	0010																	
		10+25	-	10+60	5TH ST	-	-	155	-	-	-	-	-	176	-	-	20	
		10+75	-	13+59	MARITIME DR, NB (NMI)	-	-	-	795	-	-	-	-	883	-	-	24	INCLUDES MEDIAN
		12+50	-	14+15	MARITIME DR, NB (NME)	-	-	-	346	-	-	-	-	458	-	-	-	
		10+75	-	13+33	MARITIME DR, SB (SMI)	-	-	-	542	-	-	-	-	656	-	4	16	
		00+00	-	03+77	MARITIME RAB (RCC)	-	136	-	-	1,430	-	-	-	149	410	-	-	
					UNDISTRIBUTED	-	-	112	-	-	-	100	100	125	-	-	-	
		CATEGORY 0010 TOTALS				300	136	1,125	25,705	1,430	0	100	100	29,160	410	107	201	
PROJECT 4570-12-71																		
	0020																	
					MARITIME INTERSECTION	-	44	-	-	-	-	-	-	-	-	-	-	COLORED CROSSWALKS
		CATEGORY 0020 TOTALS				0	44	0	0	0	0	0	0	0	0	0	0	
		PROJECT TOTALS				300	180	1,125	25,705	1,430	0	100	100	29,160	410	107	201	
		TOTALS				300	385	10,410	77,155	1,430	5	615	860	93,960	410	172	1,334	

* QUANTITIES SHOWN ELSEWHERE

NOTE: QUANTITIES FOR JOINT FILLING IN CURB & GUTTER AT TURN LANE / MEDIAN INCLUDED IN MAINLINE QUANTITY

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

ASPHALTIC PAVEMENT

ID	STATION	TO	STATION	LOCATION	455.0605 * TACK COAT GAL	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	465.0105 ASPHALTIC SURFACE TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0125 * ASPHALTIC SURFACE TEMPORARY TON	465.0305 ASPHALTIC SURFACE SAFETY ISLAND TON	COMMENT
PROJECT 1500-47-71												
	38+00	-	70+00	USH 10, EB	562	-	1,455	-	10	-	4	
	38+00	-	70+00	USH 10, WB	587	-	1,520	-	2	-	6	
	PROJECT TOTALS				1,149	0	2,975	0	12	0	10	
PROJECT 1500-37-71												
	95+28			USH 10, WB	-	-	-	-	2	-	-	
	104+15			USH 10, WB	-	-	-	-	1	-	-	PE
	104+74			USH 10, EB	-	-	-	-	1	-	-	PE
	104+76			USH 10, WB	-	-	-	-	1	-	-	PE
	105+50			USH 10, WB	-	-	-	-	2	-	-	PE
	110+81			USH 10, EB	-	-	-	-	1	-	-	PE
	132+78			USH 10, WB	-	-	-	-	2	-	-	PE
	138+73			USH 10, WB	-	-	-	-	1	-	-	PE
	143+25			USH 10, EB	-	-	-	-	2	-	-	PE
	149+83			USH 10, WB	-	-	-	-	2	-	-	
	9+30	-	9+40	21ST ST	1	-	2	-	-	-	-	
	10+60	-	10+65	ELM ST	1	-	2	-	-	-	-	
	9+25	-	9+35	17TH ST	1	-	2	-	-	-	-	
	9+35	-	9+40	15TH ST	1	-	2	-	-	-	-	
	9+30	-	9+35	14TH ST	1	-	2	-	-	-	-	
	10+80	-	10+85	14TH ST	1	-	2	-	-	-	-	
	9+35	-	9+40	13TH ST	1	-	2	-	-	-	-	
	8+15	-	8+20	12TH ST	1	-	2	-	-	-	-	
	10+80	-	10+85	12TH ST	1	-	2	-	-	-	-	
	8+85	-	8+90	MENASHA AVE	1	-	2	-	-	-	-	
	12+65	-	12+70	9TH ST	1	-	2	-	-	-	-	
	9+00	-	9+05	9TH ST	1	-	2	-	-	-	-	
	8+50	-	8+55	8TH ST	1	-	2	-	-	-	-	
	8+66			8TH ST	-	-	-	-	1	-	-	PE
	11+50	-	12+90	8TH ST	29	100	69	-	-	-	-	
	INTERSECTION			USH 10/23RD ST	-	-	-	-	-	50	-	UTILITY TRENCHES
	INTERSECTION			USH 10/18TH ST	-	-	-	-	-	50	-	UTILITY TRENCHES
	INTERSECTION			USH 10/11TH ST	-	-	-	-	-	50	-	UTILITY TRENCHES
	INTERSECTION			USH 10/8TH ST	-	-	-	-	-	50	-	UTILITY TRENCHES
	UNDISTRIBUTED			ENTIRE PROJECT	-	-	-	-	-	100	-	
	PROJECT TOTALS				42	100	95	0	16	300	0	
PROJECT 4570-12-71												
	158+45			USH 10, WB	-	-	-	-	1	-	-	PE
	164+03			USH 10, WB	-	-	-	-	1	-	-	PE
	164+80			USH 10, EB	-	-	-	-	1	-	-	PE
	165+70			USH 10, WB	-	-	-	-	1	-	-	PE
	165+70			USH 10, EB	-	-	-	-	1	-	-	PE
	166+79			USH 10, WB	-	-	-	-	1	-	-	PE
	167+31			USH 10, EB	-	-	-	-	2	-	-	PE
	168+83			USH 10, WB	-	-	-	-	2	-	-	PE
	169+20			USH 10, EB	-	-	-	-	2	-	-	PE
	169+56			USH 10, EB	-	-	-	-	2	-	-	PE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

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ASPHALTIC PAVEMENT (CONTINUED)

ID	STATION	TO	STATION	LOCATION	455.0605 * TACK COAT GAL	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	465.0105 ASPHALTIC SURFACE TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0125 * ASPHALTIC SURFACE TEMPORARY TON	465.0305 ASPHALTIC SURFACE SAFETY ISLAND TON	COMMENT
PROJECT 4570-12-71												
	166+79			USH 10, WB	-	-	-	-	1	-	-	PE
	167+31			USH 10, EB	-	-	-	-	2	-	-	PE
	168+83			USH 10, WB	-	-	-	-	2	-	-	PE
	169+20			USH 10, EB	-	-	-	-	2	-	-	PE
	169+56			USH 10, EB	-	-	-	-	2	-	-	PE
	184+31			USH 10, WB	-	-	-	-	9	-	-	PE
193+15	-		194+90	STH 42, EB	-	-	-	20	-	-	-	PARKING LOT
194+83	-		194+90	STH 42, EB	1	-	3	-	-	-	-	
194+38	-		194+45	STH 42, WB	1	-	3	-	-	-	-	
194+38	-		196+41	STH 42, WB	13	-	30	-	-	-	-	MEDIAN / LT TURN LANE
9+10	-		9+15	LINCOLN BLVD, SB	1	-	1	-	-	-	-	
10+80	-		10+85	LINCOLN BLVD, SB	1	-	1	-	-	-	-	
9+10	-		9+15	LINCOLN BLVD, NB	1	-	1	-	-	-	-	
10+80	-		10+85	LINCOLN BLVD, NB	1	-	1	-	-	-	-	
13+15	-		16+30	NB MARITIME DRIVE	-	-	-	25	-	-	-	TRAIL
UNDISTRIBUTED				ENTIRE PROJECT	-	-	-	-	-	25	-	
PROJECT TOTALS					19	0	40	45	32	25	0	
TOTALS					1,210	100	3,110	45	60	325	10	

CONCRETE CURB PEDESTRIAN

ID	STATION	LOCATION	601.0600 LF
PROJECT 1500-37-71			
	145+52	USH 10, EB	23
	151+15	USH 10, EB	30
	151+85	USH 10, EB	28
PROJECT TOTAL			81
PROJECT 4570-12-71			
	159+50	STH 42, WB	19
	160+25	STH 42, WB	23
	163+85	STH 42, WB	19
	188+67	STH 42, EB	21
	188+77	STH 42, EB	27
	190+95	STH 42, EB	59
	191+05	STH 42, EB	55
	13+28	MARITIME DR, NB (NMI), LT	43
	13+38	MARITIME DR, NB (NMI), LT	45
	13+60	MARITIME DR, NB (NME), LT	34
	13+60	MARITIME DR, NB (NME), LT	34
PROJECT TOTAL			379
TOTAL			460

CONCRETE APPROACH SLAB

ID	STATION	TO	STATION	LOCATION	415.0410 SY
PROJECT 1500-37-71					
	81+88	-	82+03	USH 10 / STH 42, EB	42
	81+88	-	82+03	USH 10 / STH 42, WB	42
	84+62	-	84+77	USH 10 / STH 42, EB	42
	84+62	-	84+77	USH 10 / STH 42, WB	42
PROJECT TOTAL					168

CONCRETE MASONRY ENDWALLS

ID	STATION	LOCATION	504.0900 CY	REMARKS
PROJECT 4570-12-71				
	174+80	STH 42, RT	3	FOR CUT OFF WALL
TOTAL			3	

CONCRETE CURB

ID	STATION	LOCATION	601.0105 TYPE A LF	REMARKS
PROJECT 1500-37-71				
	119+11	USH 10, WB	10	PE
PROJECT TOTAL			10	
PROJECT 4570-12-71				
	153+80	STH 42, EB	8	PE
	165+63	STH 42, EB	12	PE
PROJECT TOTAL			20	
TOTAL			30	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

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CONCRETE COLLARS FOR PIPE

ID	STRUCT.	STA.	OFFSET*	LOCATION	520.8000 EA	REMARKS
PROJECT 1500-47-71						
	1	45+01	55.5' LT	WB	1	CONNECT EXISTING 6" STORM SEWER WITH CONCRETE COLLAR
	3	45+21	5.0' LT	EB	3	CONNECT EXISITING 15", 15" & 21" CONCRETE STORM SEWER WITH CONCRETE COLLAR
			PROJECT TOTAL		4	
PROJECT 1500-37-71						
	MH-18.0	70+03	6' RT	USH 10 EB	1	CONNECT EXISTING 15" STORM SEWER TO MH-18.0 WITH CONCRETE COLLAR
	MH-24.3	72+25	99.2' RT	USH 10 EB	2	CONNECT EXISTING 10" & 8" STORM SEWER TO MH-24.3 WITH CONCRETE COLLAR
	CB-26.4	73+16	25.5' RT	USH 10 EB	1	CONNECT EXISTING 12" STORM SEWER TO CB-26.4 WITH CONCRETE COLLAR
	CB-48.2	10+87	27.5' RT	N. 23RD STREET	1	CONNECT EXISTING 15" STORM SEWER TO CB-48.2 WITH CONCRETE COLLAR
	MH-66.5	09+57	22.2' RT	SB PARK ROW BLVD.	1	CONNECT EXISITING 12" STORM SEWER TO MH-66.5 WITH CONCRETE COLLAR
	MH-78.0	10+76	7.7' RT	N 18TH ST	1	CONNECT EXISTING 24" STORM SEWER TO MH-78.0 WITH CONCRETE COLLAR
	MH-80.0	09+30	6.2' RT	N 18TH ST	1	CONNECT EXISTING 12" STORM SEWER TO MH-80.0 WITH CONCRETE COLLAR
	MH-105.0	10+90	13.5' RT	MENASHA AVE.	1	CONNECT EXISTING 42" STORM SEWER TO MH-105.0 WITH CONCRETE COLLAR
	MH-108.1	136+42	80' RT	USH 10 EB	1	CONNECT EXISTING 24" STORM SEWER TO MH-108.1 WITH CONCRETE COLLAR
	MH-114.3	10+90	12.3' RT	N 11TH ST	1	CONNECT EXISTING 12" STORM SEWER TO MH-114.3 WITH CONCRETE COLLAR
	MH-114.7	09+47	10.4' RT	N 11TH ST	1	CONNECT EXISITING 36" STORM SEWER TO MH-114.7 WITH CONCRETE COLLAR
	CB-120.6	09+47	16.5' RT	N. 10TH STREET	1	CONNECT EXISTING 12" STORMLATERAL TO CB-120.6 WITH CONCRETE COLLAR
	MH-122.2	12+61	8' RT	N. 9TH STREET	2	CONNECT EXISTING 48" AND 24" STORM SEWER TO MH-122.2 WITH CONCRETE COLLAR
	CB-126.1	12+61	20.5' RT	N 8TH ST	1	CONNECT EXISTING 12" STORM SEWER TO NEW SSPRC CLASS III 12-INCH WITH CONCRETE COLLAR
	MH-126.3	12+76	17.2' RT	N 8TH ST	1	CONNECT EXISTING 15" STORM SEWER TO MH-126.3 WITH CONCRETE COLLAR
			PROJECT TOTAL		17	
PROJECT 4570-12-71						
	CB-128.4	153+70	25.5' RT	STH 42 NB	1	CONNECT EXISTING 12" STORM SEWER TO CB-128.4 WITH CONCRETE COLLAR
	MH-132.2	156+03	79.2' RT	STH 42 NB	1	CONNECT EXISTING 60" STORM SEWER TO MH-132.2 WITH CONCRETE COLLAR
	MH-134.2	10+72	8.8' LT	N 6TH ST	1	CONNECT EXISTING 12" STORM SEWER TO MH-134.2 WITH CONCRETE COLLAR
	CB-134.8	9+49	14.5' LT	N 6TH ST	1	CONNECT EXISTING 6" STORM SEWER TO CB-134.8 WITH CONCRETE COLLAR
	CB-164.5	184+87	25.5' RT	STH 42 NB	1	CONNECT EXISTING 4" STORM SEWER TO CB-164.5 WITH CONCRETE COLLAR
			PROJECT TOTAL		5	
				TOTAL	26	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

APRON ENDWALLS

ID	STRUCTURE	STA.	OFFSET*	LOCATION	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EA	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EA	522.1072 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 72-INCH EA	SPV.0060.07 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 72x113-INCH EA	611.9800.S PIPE GRATES EA	650.4000* CONSTRUCTION STAKING STORM SEWER EA	INVERT ELEV.
PROJECT 1500-37-71											
	OF-1B	70+65	72' RT	EB	---	1	---	---	---	1	631.25
	OF-2	91+57	81.7' RT	EB	---	---	1	---	1	1	633.55
	PROJECT TOTAL				0	1	1	0	1	2	
PROJECT 4570-12-71											
	OF-3	174+70	73.2' RT	EB	---	---	---	1	1	1	587.10
	OF-3A	174+92	69.3' RT	EB	---	1	---	---	---	1	582.76
	EW-160.5	179+62	48.4' RT	EB	---	1	---	---	---	1	581.26
	EW-164.10	184+89	46.1' RT	WB	1	---	---	---	---	1	587.66
	EW-174.13	13+17	75.1' RT	NB MARITIME DR. OUTSIDE	---	1	---	---	---	1	583.96
	EW-180.6	192+40	82.9' RT	EB	---	1	---	---	---	1	583.39
	PROJECT TOTAL				1	4	0	1	1	6	
	TOTAL				1	5	1	1	2	8	

*- ADDITIONAL QUANTITIES FOR BID ITEM 650.4000 ARE SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

CONCRETE CURB AND GUTTER

ID	STATION	TO	STATION	LOCATION	601.0405 18-INCH TYPE A LF	601.0409 30-INCH TYPE A LF	602.0411 30-INCH TYPE D LF	601.0413 6-INCH SLOPED 30-INCH TYPE G LF	601.0580 4-INCH SLOPED 36-INCH TYPE R LF	SPV.0090.01 INTEGRAL 18-INCH TYPE D LF	415.0610 * DRILLED TIE BARS EACH
PROJECT 1500-47-71											
	38+00	-	70+00	USH 10, EB	80	215	-	-	-	-	53
	38+00	-	70+00	USH 10, WB	120	205	-	-	-	-	62
	09+10		09+75	CTH R							
	10+75		11+33	CTH R							
	UNDISTRIBUTED				20	40	-	-	-	-	
	PROJECT TOTALS				220	460	0	0	0	0	115
PROJECT 1500-37-71											
	70+00	-	82+03	USH 10, EB	325	-	-	-	-	2,105	-
	70+00	-	82+03	USH 10, WB	225	-	-	-	-	1,970	-
	84+63	-	93+50	USH 10, EB	215	-	-	-	-	1,480	-
	84+63	-	93+50	USH 10, WB	15	-	-	-	-	1,660	-
	93+50	-	106+00	USH 10, EB	270	-	-	-	-	1,855	-
	93+50	-	106+00	USH 10, WB	425	-	-	-	-	1,785	-
	106+00	-	118+25	USH 10, EB	515	-	-	-	-	1,500	-
	106+00	-	118+25	USH 10, WB	560	-	-	-	-	1,370	-
	118+25	-	131+00	USH 10, EB	190	-	-	-	-	1,715	-
	118+25	-	131+00	USH 10, WB	460	-	-	-	-	1,465	-
	131+00	-	141+50	USH 10, EB	535	-	-	-	-	1,190	-
	131+00	-	141+50	USH 10, WB	75	-	-	-	-	1,620	-
	141+50	-	152+25	USH 10, EB	430	-	-	-	-	1,135	-
	141+50	-	152+25	USH 10, WB	650	-	-	-	-	935	-
	10+25	-	10+85	FLEETWOOD DR	-	150	-	-	-	-	-
	12+92	-	13+18	FLEETWOOD DR	-	26	-	-	-	-	12
	9+40	-	9+75	23RD ST	-	100	-	-	-	-	-
	10+49	-	10+95	23RD ST	-	125	-	-	-	-	-
	9+10	-	9+74	MENCHL DR	-	145	-	-	-	-	-
	9+35	-	9+75	21ST ST	-	110	-	-	-	-	-
	10+49	-	11+00	21ST ST	-	130	-	-	-	-	-
	9+40	-	9+75	20TH ST	-	110	-	-	-	-	-
	10+49	-	10+85	PARK ROW BLVD (SB)	-	130	-	-	-	-	-
	10+25	-	10+60	PARK ROW BLVD (NB)	-	90	-	-	-	-	-
	10+25	-	10+65	ELM ST	-	110	-	-	-	-	-
	9+00	-	9+75	18TH ST	-	-	-	-	-	200	-
	10+49	-	11+15	18TH ST	-	110	-	-	-	-	-
	9+25	-	9+75	17TH ST	-	120	-	-	-	-	-
	10+49	-	10+98	17TH ST	-	100	-	-	-	-	-
	9+23	-	9+75	16TH ST	-	110	-	-	-	-	-
	10+49	-	10+85	16TH ST	-	100	-	-	-	-	-
	9+35	-	9+75	15TH ST	-	110	-	-	-	-	-
	10+49	-	11+00	15TH ST	-	130	-	-	-	-	-
	9+30	-	9+75	14TH ST	-	120	-	-	-	-	-
	10+49	-	10+85	14TH ST	-	100	-	-	-	-	-

* QUANTITIES SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

CONCRETE CURB AND GUTTER (CONTINUED)

ID	STATION	TO	STATION	LOCATION	601.0405 18-INCH TYPE A LF	601.0409 30-INCH TYPE A LF	602.0411 30-INCH TYPE D LF	601.0413 6-INCH SLOPED 30-INCH TYPE G LF	601.0580 4-INCH SLOPED 36-INCH TYPE R LF	SPV.0090.01 INTEGRAL 18-INCH TYPE D LF	415.0610 * DRILLED TIE BARS EACH
PROJECT 1500-37-71											
	9+35	-	9+75	13TH ST	-	110	-	-	-	-	-
	8+85	-	9+86	MENASHA AVE	-	220	-	-	-	-	-
	10+25	-	12+11	MENASHA AVE	-	400	-	-	-	-	-
	8+15	-	9+75	12TH ST	-	250	-	-	-	-	-
	10+49	-	10+85	12TH ST	-	100	-	-	-	-	-
	9+35	-	9+75	11TH ST	-	100	-	-	-	-	-
	10+49	-	11+27	11TH ST	-	135	-	-	-	-	-
	9+35	-	9+75	10TH ST	-	110	-	-	-	-	-
	9+00	-	9+75	9TH ST	-	180	-	-	-	-	-
	10+49	-	12+70	9TH ST	-	470	-	-	-	-	-
	8+50	-	9+75	8TH ST	-	275	-	-	-	-	-
	10+50	-	12+90	8TH ST	-	255	-	-	-	-	-
	10+20	-	11+45	EMERGENCY RR CROSSING	-	20	-	-	-	-	10
	PROJECT TOTALS				4,890	4,851	0	0	0	21,985	22
PROJECT 4570-12-71											
	152+25	-	163+50	STH 42, EB	60	-	-	-	-	1,710	-
	152+25	-	163+50	STH 42, WB	145	-	-	-	-	1,665	-
	163+50	-	188+97	STH 42, EB	190	175	-	-	-	4,600	-
	163+50	-	189+01	STH 42, WB	195	115	-	-	-	4,630	-
	190+42	-	194+45	STH 42, WB	390	370	-	-	-		-
	190+44	-	194+90	STH 42, EB	420	435	185	-	-	-	-
	195+11	-	196+49	STH 42, WB	-	-	-	220	-	-	-
	9+10	-	9+75	LINCOLN BLVD, SB	-	145	-	-	-	-	-
	10+49	-	10+85	LINCOLN BLVD, SB	-	90	-	-	-	-	-
	9+10	-	9+75	LINCOLN BLVD, NB	-	140	-	-	-	-	-
	10+49	-	10+85	LINCOLN BLVD, NB	-	90	-	-	-	-	-
	9+35	-	9+75	6TH ST	-	110	-	-	-	-	-
	10+49	-	11+00	6TH ST	-	130	-	-	-	-	-
	10+25	-	10+60	5TH ST	-	95	-	-	-	-	-
	11+06	-	13+52	MARITIME DR, NB (NMI), LT	-	245	-	-	-	-	-
	12+51	-	14+09	MARITIME DR, NB (NMI), RT	-	155	-	-	-	-	-
	12+56	-	14+08	MARITIME DR, NB (NME), LT	-	150	-	-	-	-	-
	10+75	-	14+27	MARITIME DR, SE RAB QUAD, RT	-	355	-	-	-	-	-
	11+07	-	13+24	MARITIME DR, SB (SMI), RT	-	220	-	-	-	-	-
	13+94	-	16+87	MARITIME DR, SW RAB QUAD, RT	-	290	-	-	-	-	-
	00+00	-	03+77	MARITIME RAB (RCC)	285	300	-	-	365	-	-
	PROJECT TOTALS				1,685	3,610	185	220	365	12,605	0
	TOTALS				6,795	8,921	185	220	365	34,590	137

* QUANTITIES SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

CONCRETE SIDEWALK AND DRIVEWAY

ID	CATEGORY	STATION		TO STATION	LOCATION	405.0100 * COLORING CONCRETE WISDOT RED CY	416.0160 DRIVEWAY 6-INCH SY	602.0405 SIDEWALK 4-INCH SF	602.0410 SIDEWALK 5-INCH SF	602.0415 SIDEWALK 6-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD (YELLOW) SF	602.0605 CURB RAMP DETECTABLE WARNING FIELD RADIAL (YELLOW) SF	COMMENT
PROJECT 1500-47-71													
	0010	38+48	-	39+92	USH 10, EB	-	-	81	-	-	-	-	WALDO/CTH R INTERSECTION
		46+84	-	70+00	USH 10, EB	-	215	241	-	966	80	-	
		45+40	-	70+00	USH 10, WB	-	285	198	-	114	30	-	
		PROJECT TOTALS				0	500	520	0	1,080	110	0	
PROJECT 1500-37-71													
	0010												
		70+00	-	72+50	USH 10, EB	-	26	1,131	-	31	10	-	
		70+00	-	72+50	USH 10, WB	-	-	1,110	-	84	10	-	
		72+50	-	82+03	USH 10, EB	-	-	5,424	-	-	-	-	
		72+50	-	82+03	USH 10, WB	-	-	5,305	-	147	10	-	
		77+50	-	82+03	USH 10, EB	-	-	826	-	-	-	-	MEDIAN
		84+63	-	93+50	USH 10, EB	-	-	5,245	-	94	10	-	
		84+63	-	93+50	USH 10, WB	-	-	5,073	-	67	10	-	
		84+63	-	93+04	USH 10, EB	-	-	2,241	-	-	-	-	MEDIAN
		93+50	-	99+35	USH 10, EB	-	96	2,350	-	111	-	27	
		93+50	-	99+35	USH 10, WB	-	222	2,268	-	134	10	-	
		99+35	-	103+00	USH 10, EB	-	-	1,642	-	128	-	27	
		99+35	-	103+00	USH 10, WB	-	25	1,604	-	70	10	-	
		103+00	-	106+50	USH 10, EB	-	15	1,511	-	140	20	-	
		103+00	-	106+50	USH 10, WB	-	43	1,423	-	150	20	-	
		106+50	-	110+00	USH 10, EB	-	71	1,494	-	110	20	-	
		106+50	-	110+00	USH 10, WB	-	24	1,308	-	140	20	54	
		110+00	-	118+25	USH 10, EB	-	250	3,335	-	135	10	-	
		110+00	-	118+25	USH 10, WB	-	-	3,899	-	160	20	-	
		115+15	-	117+65	USH 10, EB	-	-	1,236	-	-	-	-	MEDIAN
		118+25	-	122+00	USH 10, EB	-	50	1,575	-	148	20	-	
		118+25	-	122+00	USH 10, WB	-	70	1,553	-	185	20	-	
		118+82	-	121+66	USH 10, EB	-	-	1,409	-	-	-	-	MEDIAN
		122+00	-	125+50	USH 10, EB	-	66	1,416	-	180	20	-	
		122+00	-	125+50	USH 10, WB	-	96	1,284	-	200	20	-	
		125+50	-	128+15	USH 10, EB	-	32	1,086	-	187	20	-	
		125+50	-	128+15	USH 10, WB	-	30	1,100	-	180	20	-	
		128+15	-	131+00	USH 10, EB	-	62	1,056	-	200	20	-	
		128+15	-	131+00	USH 10, WB	-	-	1,216	-	170	20	-	
		131+00	-	133+75	USH 10, EB	-	45	1,089	-	229	40	-	INCLUDES MEDIAN
		131+00	-	134+75	USH 10, WB	-	112	1,408	-	227	40	-	
		133+75	-	136+50	USH 10, EB	-	15	1,176	-	234	40	-	INCLUDES MEDIAN
		134+75	-	136+50	USH 10, WB	-	-	664	-	146	20	-	
		136+50	-	141+50	USH 10, EB	-	94	1,961	-	160	20	-	
		136+50	-	141+50	USH 10, WB	-	118	2,035	-	155	20	-	
		139+48	-	141+11	USH 10, EB	-	-	805	-	-	-	-	MEDIAN
		141+50	-	145+25	USH 10, EB	-	55	1,470	-	209	20	-	
		141+50	-	148+35	USH 10, WB	-	-	3,147	-	208	30	-	
		142+14	-	144+88	USH 10, EB	-	-	1,358	-	-	-	-	MEDIAN
		145+25	-	148+35	USH 10, EB	-	-	1,346	-	180	20	-	
		145+66	-	147+60	USH 10, EB	-	-	1,323	-	-	-	-	MEDIAN

* QUANTITIES SHOWN ELSEWHERE

NOTE: CURB RAMPS TO BE PAID AS 6-INCH SIDEWALK

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

CONCRETE SIDEWALK AND DRIVEWAY (CONTINUED)

ID	CATEGORY	STATION	TO	STATION	LOCATION	405.0100 * COLORING CONCRETE WISDOT RED CY	416.0160 DRIVEWAY 6-INCH SY	602.0405 SIDEWALK 4-INCH SF	602.0410 SIDEWALK 5-INCH SF	602.0415 SIDEWALK 6-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD (YELLOW) SF	602.0605 CURB RAMP DETECTABLE WARNING FIELD RADIAL (YELLOW) SF	COMMENT
PROJECT 1500-37-71													
	0010												
		148+35	-	152+25	USH 10, EB	-	25	1,301	-	160	40	-	
		148+35	-	152+25	USH 10, WB	-	31	1,245	-	168	30	-	
		148+78	-	151+05	USH 10, EB	-	-	1,979	-	-	-	-	MEDIAN
		10+48	-	10+75	FLEETWOOD DR	-	-	217	-	-	-	-	
		12+92	-	13+18	FLEETWOOD DR	-	30	-	-	-	-	-	
		9+40	-	9+57	23RD ST	-	-	163	-	-	-	-	
		10+68	-	10+95	23RD ST	-	-	278	-	-	-	-	
		9+35	-	9+57	21ST ST	-	-	225	-	-	-	-	
		10+66	-	11+00	21ST ST	-	31	263	-	-	-	-	
		9+40	-	9+55	20TH ST	-	-	155	-	-	-	-	
		10+69	-	10+85	PARK ROW BLVD (SB)	-	-	76	-	-	-	-	
		10+44	-	10+60	PARK ROW BLVD (NB)	-	-	78	-	-	-	-	
		10+43	-	10+65	ELM ST	-	-	188	-	-	-	-	
		9+00	-	9+52	18TH ST	-	12	502	-	-	-	-	
		10+67	-	10+90	18TH ST	-	-	220	-	-	-	-	
		9+30	-	9+55	17TH ST	-	-	247	-	-	-	-	
		10+70	-	10+85	17TH ST	-	-	143	-	-	-	-	
		9+35	-	9+75	16TH ST	-	-	201	-	-	-	-	
		10+70	-	10+85	16TH ST	-	-	148	-	-	-	-	
		9+35	-	9+56	15TH ST	-	-	202	-	-	-	-	
		10+68	-	11+00	15TH ST	-	-	314	-	-	-	-	
		9+30	-	9+56	14TH ST	-	-	278	-	-	-	-	
		10+68	-	10+85	14TH ST	-	-	166	-	-	-	-	
		9+35	-	9+55	13TH ST	-	-	214	-	-	-	-	
		10+49	-	12+11	MENASHA AVE (NMN)	-	-	1,675	-	-	-	-	
		8+15	-	9+56	12TH ST	-	80	907	-	-	-	-	
		10+68	-	10+85	12TH ST	-	-	169	-	-	-	-	
		8+85	-	9+84	MENASHA AVE (SMN)	-	62	764	-	218	20	-	
		9+35	-	9+58	11TH ST	-	-	215	-	-	-	-	
		10+68	-	11+27	11TH ST	-	-	310	-	-	-	-	
		9+35	-	9+57	10TH ST	-	-	207	-	-	-	-	
		9+00	-	9+56	9TH ST	-	-	549	-	-	-	-	
		10+70	-	12+70	9TH ST	-	46	545	-	-	-	-	
		8+50	-	9+64	8TH ST	-	58	1,032	-	-	-	-	
		10+70	-	12+90	8TH ST	-	13	832	-	-	-	-	
					UNDISTRIBUTED	-	200	-	-	-	-	-	MATCH JOINTS
					PROJECT TOTALS	0	2,205	93,910	0	5,445	680	108	
PROJECT 4570-12-71													
	0010												
		152+25	-	155+90	STH 42, EB	-	127	1,286	-	134	20	-	
		152+25	-	155+90	STH 42, WB	-	70	1,493	-	132	20	-	
		155+90	-	159+90	STH 42, EB	-	73	1,454	-	263	30	-	
		155+90	-	159+90	STH 42, WB	-	13	1,697	-	270	30	-	
		159+90	-	163+50	STH 42, EB	-	85	1,532	-	159	10	-	

* QUANTITIES SHOWN ELSEWHERE

NOTE: CURB RAMPS TO BE PAID AS 6-INCH SIDEWALK

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

CONCRETE SIDEWALK AND DRIVEWAY (CONTINUED)

ID	CATEGORY	STATION	TO	STATION	LOCATION	405.0100 * COLORING CONCRETE WISDOT RED CY	416.0160 DRIVEWAY 6-INCH SY	602.0405 SIDEWALK 4-INCH SF	602.0410 SIDEWALK 5-INCH SF	602.0415 SIDEWALK 6-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD (YELLOW) SF	602.0605 CURB RAMP DETECTABLE WARNING FIELD RADIAL (YELLOW) SF	COMMENT
PROJECT 4570-12-71													
	0010												
		159+90	-	163+50	STH 42, WB	-	36	1,530	-	236	20	-	
		163+50	-	175+00	STH 42, EB	-	147	5,212	-	120	40	-	INCLUDES MEDIAN
		163+50	-	175+00	STH 42, WB	-	94	5,296	-	96	20	-	
		175+00	-	185+00	STH 42, EB	-	-	4,707	-	60	-	54	
		175+00	-	184+46	STH 42, WB	-	33	4,490	-	-	-	-	
		185+00	-	188+97	STH 42, EB	-	-	2,302	-	302	60	-	INCLUDES MEDIAN
		190+42	-	191+75	STH 42 (MEMORIAL DR), WB RT	-	-	440	-	150	40	-	MEDIAN
		190+44	-	191+63	STH 42 (MEMORIAL DR), EB	-	-	260	-	70	20	-	
		9+10	-	9+54	LINCOLN BLVD, SB (SL)	-	-	219	-	-	-	-	
		10+70	-	10+85	LINCOLN BLVD, SB (SL)	-	-	73	-	-	-	-	
		9+10	-	9+56	LINCOLN BLVD, NB (NL)	-	-	299	-	-	-	-	
		10+69	-	10+85	LINCOLN BLVD, NB (NL)	-	-	76	-	-	-	-	
		9+35	-	9+51	6TH ST	-	72	68	-	-	-	-	
		10+72	-	11+00	6TH ST	-	-	182	-	-	-	-	
		10+43	-	10+60	5TH ST	-	-	76	-	-	-	-	
		10+75	-	11+82	MARITIME DR, NB (NMI), RT	-	-	324	-	62	-	-	
		13+22	-	13+38	MARITIME DR, NB (NMI), LT	-	-	296	906	144	40	-	ISLAND
		13+60	-	14+10	MARITIME DR, NB (NME), LT & RT	-	-	208	1171	211	60	-	INCLUDES ISLAND
		10+90	-	13+33	MARITIME DR, SB (SMI), LT	-	-	560	1129	106	20	-	
		00+00	-	3+77	MARITIME RAB (RCC), RT	-	-	-	2,219	-	-	-	
					UNDISTRIBUTED	-	75	-	-	-	-	-	MATCH JOINTS
					CATEGORY 0010 TOTALS	0	825	34,080	5,425	2,515	430	54	
PROJECT 4570-12-71													
	0020												
		13+60	-	14+10	MARITIME INTERSECTION	40	-	3240	-	-	-	-	COLORED MEDIAN
					CATEGORY 0020 TOTALS	40	0	3240	0	0	0	0	
PROJECT 4570-12-71													
	0040												
		185+00	-	189+01	STH 42, WB	-	-	1,455	1,051	60	20	-	
		190+42	-	191+75	STH 42 (MEMORIAL DR), WB & RT	-	-	305	184	60	20	-	
					CATEGORY 0040 TOTALS	0	0	1760	1235	120	40	0	
					PROJECT TOTALS	40	825	39,080	6,660	2,635	470	54	
					TOTALS	40	3,530	133,510	6,660	9,160	1,260	162	

* QUANTITIES SHOWN ELSEWHERE

NOTE: CURB RAMPS TO BE PAID AS 6-INCH SIDEWALK

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

STORM SEWER PIPE

ID	FROM STRUCT.	-	TO STRUCT.	608.0312 REINF. CONC. CLASS III 12-INCH LF	608.0315 REINF. CONC. CLASS III 15-INCH LF	608.0318 REINF. CONC. CLASS III 18-INCH LF	608.0324 REINF. CONC. CLASS III 24-INCH LF	608.0330 REINF. CONC. CLASS III 30-INCH LF	608.0336 REINF. CONC. CLASS III 36-INCH LF	608.0348 REINF. CONC. CLASS III 48-INCH LF	608.0360 REINF. CONC. CLASS III 60-INCH LF	608.0366 REINF. CONC. CLASS III 66-INCH LF	608.0372 REINF. CONC. CLASS III 72-INCH LF	608.0412 REINF. CONC. CLASS IV 12-INCH LF	608.0466 REINF. CONC. CLASS IV 66-INCH LF	608.3030 CLASS III-A 30-INCH LF	SPV.0090.03 PVC 6-INCH LF	SPV.0090.04 PVC 12-INCH LF	SPV.0090.02 REINF. CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 72X113-INCH LF	SPV.0090.07* TELEVISING SEWER LF	SPV.0090.13 STEEL CASING PIPE 42-INCH LF	INLET ELEV	DISC ELEV	SLOPE FT/FT
PROJECT 1500-47-71																								
	IN-1.0	-	MH-2.0	---	22	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	648.52	648	0.024
	MH-2.0	-	MH-3.0	---	55	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	648.00	647.39	0.011
	PROJECT TOTAL			0	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
PROJECT 1500-37-71																								
	MH-18.0	-	MH-20.0	---	79	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	79	---	633.77	633.37	0.0050
	MH-20.0	-	CB-22.0	---	---	---	14	---	---	---	---	---	---	---	---	---	---	---	---	---	14	---	631.50	631.21	0.0200
	CB-20.1	-	CB-20.2	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	636.21	636.16	0.0050
	CB-20.2	-	CB-20.4	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	636.16	636.04	0.0050
	CB-20.3	-	CB-20.4	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	636.26	636.22	0.0050
	CB-20.4	-	CB-20.6	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	636.04	635.97	0.0050
	CB-20.5	-	CB-20.6	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	636.08	636.03	0.0050
	CB-20.6	-	MH-20.0	---	22	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	635.72	635.61	0.0050
	CB-20.7	-	MH-22.0	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	636.13	636.08	0.0050
	CB-22.0	-	OF-1B	---	---	---	49	---	---	---	---	---	---	---	---	---	---	---	---	---	49	---	630.01	629.00	0.0211
	CB-24.1	-	MH-24.3	41	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	638.85	638.73	0.0029
	MH-24.0	-	MH-20.0	---	---	---	145	---	---	---	---	---	---	---	---	---	---	---	---	---	145	---	636.90	634.00	0.0200
	MH-24.3	-	MH-24.0	110	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	638.63	638.30	0.0030
	CB-24.2	-	MH-24.3	22	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	638.70	638.63	0.0030
	MH-26.0	-	MH-24.0	---	---	---	91	---	---	---	---	---	---	---	---	---	---	---	---	---	91	---	638.73	636.90	0.0201
	CB-26.1	-	CB-26.2	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	639.97	639.84	0.0050
	CB-26.2	-	CB-26.3	22	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	639.84	639.73	0.0050
	CB-26.3	-	MH-26.0	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	639.73	639.68	0.0050
	CB-26.4	-	MH-26.0	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	640.06	639.99	0.0050
	MH-28.0	-	MH-26.0	---	---	---	284	---	---	---	---	---	---	---	---	---	---	---	---	---	284	---	652.92	638.73	0.0500
	CB-28.1	-	CB-28.2	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	653.56	653.43	0.0050
	CB-28.2	-	CB-28.3	13	---	---		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	653.43	653.37	0.0050
	CB-28.3	-	MH-28.0	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	653.37	653.31	0.0050
	CB-28.4	-	MH-28.0	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	653.77	653.70	0.0050
	MH-30.0	-	MH-28.0	---	---	---	300	---	---	---	---	---	---	---	---	---	---	---	---	---	300	---	666.42	652.92	0.0450
	CB-30.1	-	CB-30.2	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	667.48	667.35	0.0050
	CB-30.2	-	CB-30.3	9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	667.35	667.31	0.0050
	CB-30.3	-	MH-30.0	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	667.30	667.25	0.0050
	CB-30.4	-	MH-30.0	14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	667.31	667.24	0.0050
	MH-40.0	-	MH-42.0	---	---	---	287	---	---	---	---	---	---	---	---	---	---	---	---	---	287	---	668.73	657.25	0.0400
	CB-40.1	-	CB-40.2	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	669.85	669.72	0.0050
	CB-40.2	-	CB-40.3	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	669.72	669.68	0.0050

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER PIPE CONT.

ID	FROM STRUCT.	-	TO STRUCT.	608.0312 REINF. CONC. CLASS III 12-INCH LF	608.0315 REINF. CONC. CLASS III 15-INCH LF	608.0318 REINF. CONC. CLASS III 18-INCH LF	608.0324 REINF. CONC. CLASS III 24-INCH LF	608.0330 REINF. CONC. CLASS III 30-INCH LF	608.0336 REINF. CONC. CLASS III 36-INCH LF	608.0348 REINF. CONC. CLASS III 48-INCH LF	608.0360 REINF. CONC. CLASS III 60-INCH LF	608.0366 REINF. CONC. CLASS III 66-INCH LF	608.0372 REINF. CONC. CLASS III 72-INCH LF	608.0412 REINF. CONC. CLASS IV 12-INCH LF	608.0466 REINF. CONC. CLASS IV 66-INCH LF	608.3030 CLASS III-A 30-INCH LF	SPV.0090.03 PVC 6-INCH LF	SPV.0090.04 PVC 12-INCH LF	SPV.0090.02 REINF. CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 72X113-INCH LF	SPV.0090.07* TELEVISING SEWER LF	SPV.0090.13 STEEL CASING PIPE 42-INCH LF	INLET ELEV	DISC ELEV	SLOPE FT/FT
PROJECT 1500-37-71 CONT.																								
	CB-40.3	-	MH-40.0	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	669.68	669.64	0.0050
	CB-40.4	-	MH-40.0	18	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	669.62	669.53	0.0050
	MH-42.0	-	MH-44.0	---	---	---	291	---	---	---	---	---	---	---	---	---	---	---	---	---	291	---	657.25	642.68	0.0501
	CB-42.1	-	CB-42.2	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	658.32	658.19	0.0050
	CB-42.2	-	CB-42.3	9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	658.19	658.14	0.0050
	CB-42.3	-	MH-42.0	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	658.14	658.10	0.0049
	CB-42.4	-	MH-42.0	18	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	658.08	657.99	0.0050
	MH-44.0	-	MH-46.0	---	---	---	66	---	---	---	---	---	---	---	---	---	---	---	---	---	66	---	642.68	639.34	0.0505
	CB-44.1	-	CB-44.2	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	645.21	645.08	0.0049
	CB-44.2	-	CB-44.3	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	645.08	645.03	0.0049
	CB-44.3	-	MH-44.0	9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	645.03	644.99	0.0050
	CB-44.4	-	MH-44.0	17	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	645.12	645.04	0.0050
	EX MH	-	MH-46.0	---	---	---	---	---	---	---	---	---	94	---	---	---	---	---	---	---	---	---	631.50	628.97	0.0269
	MH-46.0	-	OF-2	---	---	---	---	---	---	---	---	---	74	---	---	---	---	---	---	---	74	---	628.97	626.96	0.0270
	MH-48.0	-	MH-46.0	---	---	---	---	---	131	---	---	---	---	---	---	---	---	---	---	---	131	---	631.96	631.71	0.0020
	CB-48.1	-	CB-48.2	46	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	642.26	642.03	0.0050
	CB-48.10	-	CB-48.9	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	641.69	641.64	0.0050
	CB-48.11	-	CB-48.10	49	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	641.93	641.69	0.0050
	CB-48.12	-	CB-48.11	36	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	642.11	641.93	0.0050
	CB-48.2	-	CB-48.4	---	55	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	639.70	639.43	0.0050
	CB-48.3	-	CB-48.5	---	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	639.38	639.25	0.0050
	CB-48.4	-	CB-48.3	---	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	639.43	639.38	0.0050
	CB-48.5	-	CB-48.7	---	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	639.25	639.20	0.0050
	CB-48.6	-	CB-48.5	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	641.61	641.56	0.0050
	CB-48.7	-	MH-48.0	---	---	18	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	638.95	638.86	0.0050
	CB-48.8	-	CB-48.7	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	641.51	641.46	0.0062
	CB-48.9	-	MH-48.0	---	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	641.39	641.29	0.0050
	MH-50.0	-	MH-48.0	---	---	---	---	---	120	---	---	---	---	---	---	---	---	---	---	---	120	---	632.21	631.96	0.0020
	CB-50.1	-	CB-50.2	38	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	642.57	642.38	0.0050
	CB-50.2	-	CB-50.3	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	642.38	642.32	0.0050
	CB-50.3	-	MH-50.0	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	642.32	642.29	0.0051
	CB-50.4	-	MH-50.0	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	642.65	642.55	0.0050
	MH-52.0	-	MH-50.0	---	---	---	---	---	147	---	---	---	---	---	---	---	---	---	---	---	147	---	632.50	632.21	0.0020
	CB-52.1	-	CB-52.2	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	643.19	643.06	0.0050
	CB-52.2	-	MH-52.0	17	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	643.06	642.98	0.0050
	CB-52.3	-	MH-52.0	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	643.41	643.36	0.0050
	CB-52.4	-	CB-52.3	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	643.54	643.41	0.0050
	MH-54.0	-	MH-52.0	---	---	---	---	---	300	---	---	---	---	---	---	---	---	---	---	---	300	---	633.10	632.50	0.0020

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER PIPE CONT.

ID	FROM STRUCT.	-	TO STRUCT.	608.0312 REINF. CONC. CLASS III 12-INCH LF	608.0315 REINF. CONC. CLASS III 15-INCH LF	608.0318 REINF. CONC. CLASS III 18-INCH LF	608.0324 REINF. CONC. CLASS III 24-INCH LF	608.0330 REINF. CONC. CLASS III 30-INCH LF	608.0336 REINF. CONC. CLASS III 36-INCH LF	608.0348 REINF. CONC. CLASS III 48-INCH LF	608.0360 REINF. CONC. CLASS III 60-INCH LF	608.0366 REINF. CONC. CLASS III 66-INCH LF	608.0372 REINF. CONC. CLASS III 72-INCH LF	608.0412 REINF. CONC. CLASS IV 12-INCH LF	608.0466 REINF. CONC. CLASS IV 66-INCH LF	608.3030 CLASS III-A 30-INCH LF	SPV.0090.03 PVC 6-INCH LF	SPV.0090.04 PVC 12-INCH LF	SPV.0090.02 REINF. CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 72X113-INCH LF	SPV.0090.07* TELEVISING SEWER LF	SPV.0090.13 STEEL CASING PIPE 42-INCH LF	INLET ELEV	DISC ELEV	SLOPE FT/FT
PROJECT 1500-37-71 CONT.																								
	CB-54.1	-	CB-54.2	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	642.80	642.67	0.0050
	CB-54.2	-	MH-54.0	17	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	642.67	642.59	0.0050
	CB-54.3	-	MH-54.0	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	642.54	642.49	0.0050
	CB-54.4	-	CB-54.3	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	642.67	642.54	0.0050
	CB-56.1	-	MH-58.0	---	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	641.31	641.27	0.0050
	CB-56.2	-	CB-56.1	---	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	641.36	641.31	0.0050
	CB-56.3	-	CB-56.2	---	31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	641.51	641.36	0.0050
	CB-56.4	-	CB-56.3	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	641.81	641.76	0.0050
	CB-56.5	-	CB-56.4	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	641.93	641.81	0.0050
	CB-56.6	-	CB-56.5	49	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	642.17	641.93	0.0050
	MH-58.0	-	MH-54.0	---	---	---	---	142	---	---	---	---	---	---	---	---	---	---	---	---	---	142	---	633.88	633.60	0.0020
	CB-58.1	-	CB-58.2	33	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	644.47	642.62	0.0551
	CB-58.2	-	CB-58.3	36	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	642.62	642.27	0.0100
	CB-58.3	-	CB-58.5	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	642.27	642.01	0.0100
	CB-58.4	-	CB-58.5	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	642.40	642.35	0.0050
	CB-58.5	-	MH-58.0	---	16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	641.76	641.60	0.0100
	MH-60.0	-	MH-58.0	---	---	---	---	---	---	---	---	---	---	---	---	---	103	---	---	---	103	72	---	640.58	640.37	0.0020
	MH-64.0	-	MH-60.0	---	---	---	---	251	---	---	---	---	---	---	---	---	---	---	---	---	251	---	---	641.08	640.58	0.0020
	CB-64.1	-	CB-64.2	35	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	644.79	644.62	0.0050
	CB-64.2	-	MH-64.0	75	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	644.62	644.24	0.0050
	CB-64.3	-	CB-64.4	42	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	644.41	644.07	0.0080
	CB-64.4	-	MH-64.0	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	644.07	643.96	0.0100
	CB-64.5	-	MH-64.0	---	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	644.68	644.62	0.0051
	CB-64.6	-	CB-64.5	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	645.08	644.93	0.0050
	CB-64.7	-	CB-64.6	31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	645.23	645.08	0.0050
	CB-64.8	-	CB-64.7	37	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	645.42	645.23	0.0050
	MH-66.0	-	MH-64.0	---	---	---	264	---	---	---	---	---	---	---	---	---	---	---	---	---	264	---	---	642.38	641.58	0.0031
	CB-66.1	-	CB-66.2	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	643.00	642.81	0.0050
	CB-66.1A	-	CB-66.1	27	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	644.80	644.66	0.0050
	CB-66.2	-	CB-66.3	29	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	642.81	642.66	0.0050
	CB-66.3	-	MH-66.0	---	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	642.45	642.38	0.0050
	CB-66.4	-	MH-66.0	31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	643.70	643.35	0.0109
	MH-66.5	-	CB-66.4	28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	643.98	643.70	0.0100
	MH-68.0	-	MH-70.0	---	---	---	240	---	---	---	---	---	---	---	---	---	---	---	---	---	240	---	---	642.86	641.66	0.0050
	CB-68.1	-	CB-68.1A	27	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	644.52	644.39	0.0050
	CB-68.1A	-	CB-68.2	27	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	644.39	644.25	0.0050
	CB-68.2	-	CB-68.3	27	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	644.25	644.11	0.0050
	CB-68.3	-	CB-68.4	---	16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	643.86	643.78	0.0050
	CB-68.4	-	MH-68.0	---	18	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	643.78	634.69	0.0050

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER PIPE CONT.

ID	FROM STRUCT.	-	TO STRUCT.	608.0312 REINF. CONC. CLASS III 12-INCH LF	608.0315 REINF. CONC. CLASS III 15-INCH LF	608.0318 REINF. CONC. CLASS III 18-INCH LF	608.0324 REINF. CONC. CLASS III 24-INCH LF	608.0330 REINF. CONC. CLASS III 30-INCH LF	608.0336 REINF. CONC. CLASS III 36-INCH LF	608.0348 REINF. CONC. CLASS III 48-INCH LF	608.0360 REINF. CONC. CLASS III 60-INCH LF	608.0366 REINF. CONC. CLASS III 66-INCH LF	608.0372 REINF. CONC. CLASS III 72-INCH LF	608.0412 REINF. CONC. CLASS IV 12-INCH LF	608.0466 REINF. CONC. CLASS IV 66-INCH LF	608.3030 CLASS III-A 30-INCH LF	SPV.0090.03 PVC 6-INCH LF	SPV.0090.04 PVC 12-INCH LF	SPV.0090.02 REINF. CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 72X113-INCH LF	SPV.0090.07* TELEVISING SEWER LF	SPV.0090.13 STEEL CASING PIPE 42-INCH LF	INLET ELEV	DISC ELEV	SLOPE FT/FT
PROJECT 1500-37-71 CONT.																								
	MH-70.0	-	MH-72.0	---	---	---	313	---	---	---	---	---	---	---	---	---	---	---	---	---	313	---	641.66	640.09	0.0050
	CB-70.1	-	CB-70.2	29	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	642.46	642.32	0.0050
	CB-70.2	-	CB-70.3	32	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	642.32	642.16	0.0050
	CB-70.3	-	CB-70.4	32	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	642.16	642.00	0.0050
	CB-70.4	-	CB-70.5	---	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	641.81	641.75	0.0050
	CB-70.5	-	MH-70.0	---	18	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	641.75	641.66	0.0050
	CB-70.6	-	MH-70.0	14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	642.74	642.66	0.0056
	MH-72.0	-	MH-74.0	---	---	---	234	---	---	---	---	---	---	---	---	---	---	---	---	---	234	---	640.09	638.92	0.0050
	CB-72.1	-	CB-72.2	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	641.09	640.96	0.0050
	CB-72.2	-	CB-72.3	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	640.96	640.84	0.0050
	CB-72.3	-	MH-72.0	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	640.84	640.79	0.0050
	CB-72.4	-	MH-72.0	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	640.98	640.90	0.0050
	MH-74.0	-	MH-76.0	---	---	---	256	---	---	---	---	---	---	---	---	---	---	---	---	---	256	---	638.92	637.00	0.0075
	CB-74.1	-	CB-74.2	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	639.79	639.66	0.0050
	CB-74.2	-	CB-74.3	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	639.66	639.63	0.0047
	CB-74.3	-	MH-74.0	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	639.63	639.49	0.0051
	CB-74.4	-	MH-74.0	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	639.21	639.14	0.0050
	MH-76.0	-	MH-82.0	---	---	---	49	---	---	---	---	---	---	---	---	---	---	---	---	---	49	---	637.00	636.63	0.0075
	CB-76.1	-	CB-76.2	31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	638.43	638.28	0.0050
	CB-76.2	-	CB-76.3	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	638.28	638.24	0.0050
	CB-76.3	-	MH-76.0	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	638.24	638.09	0.0050
	CB-76.4	-	MH-76.0	21	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	638.56	638.46	0.0050
	MH-78.0	-	MH-82.0	---	---	---	87	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	637.39	636.95	0.0050
	CB-78.1	-	MH-78.0	14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	638.24	638.17	0.0048
	CB-78.2	-	MH-78.0	27	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	637.57	637.44	0.0050
	MH-80.0	-	MH-82.0	---	59	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	636.84	636.63	0.0037
	CB-80.1	-	MH-80.0	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	638.08	637.91	0.0075
	CB-80.2	-	MH-80.0	37	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	638.24	638.05	0.0050
	MH-82.0	-	MH-84.0	---	---	---	234	---	---	---	---	---	---	---	---	---	---	---	---	---	234	---	636.63	633.11	0.0150
	MH-84.0	-	MH-86.0	---	---	---	111	---	---	---	---	---	---	---	---	---	---	---	---	---	111	---	633.11	630.87	0.0175
	CB-84.1	-	CB-84.2	42	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	634.53	634.32	0.0050
	CB-84.2	-	CB-84.3	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	634.32	634.29	0.0050
	CB-84.3	-	MH-84.0	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	634.28	634.23	0.0050
	CB-84.4	-	MH-84.0	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	634.56	634.49	0.0050
	MH-86.0	-	MH-90.0	---	---	---	---	164	---	---	---	---	---	---	---	---	---	---	---	---	164	---	630.87	629.23	0.0100
	CB-86.1	-	CB-86.2	27	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	632.93	632.79	0.0050
	CB-86.2	-	CB-86.3	43	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	632.79	632.57	0.0050
	CB-86.3	-	CB-86.4	42	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	632.57	632.36	0.0050

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER PIPE CONT.

ID	FROM STRUCT.	-	TO STRUCT.	608.0312 REINF. CONC. CLASS III 12-INCH LF	608.0315 REINF. CONC. CLASS III 15-INCH LF	608.0318 REINF. CONC. CLASS III 18-INCH LF	608.0324 REINF. CONC. CLASS III 24-INCH LF	608.0330 REINF. CONC. CLASS III 30-INCH LF	608.0336 REINF. CONC. CLASS III 36-INCH LF	608.0348 REINF. CONC. CLASS III 48-INCH LF	608.0360 REINF. CONC. CLASS III 60-INCH LF	608.0366 REINF. CONC. CLASS III 66-INCH LF	608.0372 REINF. CONC. CLASS III 72-INCH LF	608.0412 REINF. CONC. CLASS IV 12-INCH LF	608.0466 REINF. CONC. CLASS IV 66-INCH LF	608.3030 CLASS III-A 30-INCH LF	SPV.0090.03 PVC 6-INCH LF	SPV.0090.04 PVC 12-INCH LF	SPV.0090.02 REINF. CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 72X113-INCH LF	SPV.0090.07* TELEVISING SEWER LF	SPV.0090.13 STEEL CASING PIPE 42-INCH LF	INLET ELEV	DISC ELEV	SLOPE FT/FT
PROJECT 1500-37-71 CONT.																								
	CB-86.4	-	CB-86.5	---	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	632.11	632.08	0.0050
	CB-86.5	-	MH-86.0	---	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	632.08	632.02	0.0050
	CB-86.6	-	MH-86.0	14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	632.70	632.63	0.0050
	CB-86.8	-	CB-86.7	28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	633.05	632.91	0.0050
	CB-86.7	-	CB-86.6	41	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	632.91	632.70	0.0050
	MH-90.0	-	MH-92.0	---	---	---	---	190	---	---	---	---	---	---	---	---	---	---	---	---	190	---	629.23	627.33	0.0100
	CB-90.1	-	CB-90.2	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	630.76	630.63	0.0050
	CB-90.2	-	CB-90.3	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	630.63	630.52	0.0050
	CB-90.3	-	MH-90.0	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	630.52	630.46	0.0055
	CB-90.4	-	MH-90.0	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	630.84	630.77	0.0047
	MH-92.0	-	MH-96.0	---	---	---	---	---	260	---	---	---	---	---	---	---	---	---	---	---	260	---	627.33	624.73	0.0100
	CB-92.1	-	CB-92.2	28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	628.64	628.50	0.0050
	CB-92.2	-	CB-92.3	39	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	628.50	628.30	0.0050
	CB-92.3	-	CB-92.4	31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	628.30	628.15	0.0050
	CB-92.4	-	CB-92.5	---	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	627.90	627.83	0.0050
	CB-92.5	-	MH-92.0	---	16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	627.83	627.75	0.0050
	CB-92.6	-	MH-92.0	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	628.12	628.05	0.0047
	CB-92.8	-	CB-92.7	28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	628.45	628.31	0.0050
	CB-92.7	-	CB-92.6	37	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	628.31	628.12	0.0050
	MH-96.0	-	MH-100.0	---	---	---	---	---	284	---	---	---	---	---	---	---	---	---	---	---	284	---	624.73	621.90	0.0100
	CB-96.1	-	CB-96.2	28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	628.64	628.50	0.0050
	CB-96.2	-	CB-96.3	37	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	628.50	628.31	0.0050
	CB-96.3	-	CB-96.4	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	628.31	628.16	0.0050
	CB-96.4	-	CB-96.5	---	14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	627.91	627.84	0.0050
	CB-96.5	-	MH-96.0	---	16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	627.84	627.76	0.0050
	CB-96.6	-	MH-96.0	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	628.22	628.15	0.0050
	CB-96.7	-	CB-96.6	37	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	628.40	628.22	0.0050
	CB-96.8	-	CB-96.7	28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	628.54	628.40	0.0050
	MH-100.0	-	MH-102.0	---	---	---	---	---	285	---	---	---	---	---	---	---	---	---	---	---	285	---	621.90	619.05	0.0100
	CB-100.1	-	CB-100.2	36	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	624.54	624.36	0.0050
	CB-100.2	-	CB-100.3	39	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	624.36	624.15	0.0053
	CB-100.3	-	CB-100.4	31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	624.15	623.99	0.0050
	CB-100.4	-	CB-100.5	---	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	623.74	623.68	0.0050
	CB-100.5	-	MH-100.0	---	17	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	623.68	623.59	0.0050
	CB-100.6	-	MH-100.0	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	624.31	624.24	0.0050
	CB-100.7	-	CB-100.6	36	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	624.49	624.31	0.0050
	CB-100.8	-	CB-100.7	29	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	624.63	624.49	0.0050
	MH-102.0	-	MH-104.0	---	---	---	---	---	65	---	---	---	---	---	---	---	---	---	---	---	65	---	619.05	618.24	0.0124

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER PIPE CONT.

ID	FROM STRUCT.	-	TO STRUCT.	608.0312 REINF. CONC. CLASS III 12-INCH LF	608.0315 REINF. CONC. CLASS III 15-INCH LF	608.0318 REINF. CONC. CLASS III 18-INCH LF	608.0324 REINF. CONC. CLASS III 24-INCH LF	608.0330 REINF. CONC. CLASS III 30-INCH LF	608.0336 REINF. CONC. CLASS III 36-INCH LF	608.0348 REINF. CONC. CLASS III 48-INCH LF	608.0360 REINF. CONC. CLASS III 60-INCH LF	608.0366 REINF. CONC. CLASS III 66-INCH LF	608.0372 REINF. CONC. CLASS III 72-INCH LF	608.0412 REINF. CONC. CLASS IV 12-INCH LF	608.0466 REINF. CONC. CLASS IV 66-INCH LF	608.3030 CLASS III-A 30-INCH LF	SPV.0090.03 PVC 6-INCH LF	SPV.0090.04 PVC 12-INCH LF	SPV.0090.02 REINF. CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 72X113-INCH LF	SPV.0090.07* TELEVISING SEWER LF	SPV.0090.13 STEEL CASING PIPE 42-INCH LF	INLET ELEV	DISC ELEV	SLOPE FT/FT
PROJECT 1500-37-71 CONT.																									
	CB-102.1	-	CB-102.2	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	622.45	622.32	0.0050
	CB-102.2	-	CB-102.3	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	622.32	622.26	0.0050
	CB-102.3	-	MH-102.0	22	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	622.26	622.15	0.0050
	CB-102.4	-	MH-102.0	16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	621.95	621.87	0.0050
	CB-102.5	-	CB-102.4	31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	622.10	621.95	0.0050
	CB-102.6	-	CB-102.5	28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	622.24	622.10	0.0050
	MH-104.0	-	MH-106.0	---	---	---	---	---	169	---	---	---	---	---	---	---	---	---	---	---	169	---	618.24	616.13	0.0125
	CB-104.1	-	CB-104.2	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	621.55	621.42	0.0050
	CB-104.2	-	CB-104.3	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	621.42	621.36	0.0050
	CB-104.3	-	MH-104.0	22	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	621.36	621.25	0.0051
	MH-105.0	-	MH-106.0	---	---	---	---	---	---	164	---	---	---	---	---	---	---	---	---	---	164	---	616.45	615.30	0.0070
	CB-105.1	-	CB-105.2	9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	619.94	619.89	0.0051
	CB-105.2	-	MH-105.0	38	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	619.89	619.70	0.0050
	CB-105.3	-	MH-105.0	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	619.81	619.76	0.0050
	CB-105.4	-	CB-105.3	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	619.86	619.81	0.0050
	MH-106.0	-	MH-108.0	---	---	---	---	---	---	---	64	---	---	---	---	---	---	---	---	---	64	---	615.22	614.74	0.0075
	CB-106.1	-	CB-106.2	44	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	619.91	618.95	0.0219
	CB-106.2	-	CB-106.3	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	618.95	618.82	0.0050
	CB-106.3	-	CB-106.4	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	618.82	618.71	0.0051
	CB-106.4	-	MH-106.0	---	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	618.46	618.40	0.0050
	CB-106.5	-	MH-106.0	14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	619.03	618.96	0.0050
	MH-108.0	-	MH-110.0	---	---	---	---	---	---	---	183	---	---	---	---	---	---	---	---	---	183	---	614.74	613.37	0.0075
	MH-108.1	-	MH-108.0	---	---	---	91	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	617.16	616.70	0.0050
	CB-108.2	-	MH-108.0	---	---	42	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	617.02	616.81	0.0050
	CB-108.3	-	CB-108.2	---	28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	617.16	617.02	0.0050
	CB-108.4	-	CB-108.3	---	63	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	617.48	617.16	0.0050
	CB-108.5	-	CB-108.4	---	53	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	617.74	617.48	0.0050
	CB-108.6	-	CB-108.5	---	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	617.94	617.74	0.0050
	CB-108.7	-	CB-108.2	---	130	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	617.67	617.02	0.0050
	MH-110.0	-	MH-112.0	---	---	---	---	---	---	---	278	---	---	---	---	---	---	---	---	---	278	---	613.37	611.30	0.0075
	CB-110.1	-	CB-110.2	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	617.28	617.23	0.0050
	CB-110.2	-	CB-110.4	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	617.23	617.10	0.0050
	CB-110.3	-	CB-110.4	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	617.15	617.10	0.0051
	CB-110.4	-	CB-110.6	22	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	617.10	616.99	0.0051
	CB-110.5	-	CB-110.6	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	617.04	616.99	0.0050
	CB-110.6	-	MH-110.0	---	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	616.74	616.68	0.0050
	CB-110.7	-	CB-110.8	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	617.29	617.24	0.0050
	CB-110.8	-	MH-110.0	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	617.24	617.17	0.0050
	MH-112.0	-	MH-114.0	---	---	---	---	---	---	---	43	---	---	---	---	---	---	---	---	---	43	---	611.30	610.98	0.0075
	CB-112.1	-	CB-112.4	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	615.38	615.24	0.0050
	CB-112.2	-	CB-112.1	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	615.42	615.38	0.0050
	CB-112.3	-	CB-112.4	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	615.30	615.24	0.0050

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER PIPE CONT.

ID	FROM STRUCT.	-	TO STRUCT.	608.0312 REINF. CONC. CLASS III 12-INCH LF	608.0315 REINF. CONC. CLASS III 15-INCH LF	608.0318 REINF. CONC. CLASS III 18-INCH LF	608.0324 REINF. CONC. CLASS III 24-INCH LF	608.0330 REINF. CONC. CLASS III 30-INCH LF	608.0336 REINF. CONC. CLASS III 36-INCH LF	608.0348 REINF. CONC. CLASS III 48-INCH LF	608.0360 REINF. CONC. CLASS III 60-INCH LF	608.0366 REINF. CONC. CLASS III 66-INCH LF	608.0372 REINF. CONC. CLASS III 72-INCH LF	608.0412 REINF. CONC. CLASS IV 12-INCH LF	608.0466 REINF. CONC. CLASS IV 66-INCH LF	608.3030 CLASS III-A 30-INCH LF	SPV.0090.03 PVC 6-INCH LF	SPV.0090.04 PVC 12-INCH LF	SPV.0090.02 REINF. CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 72X113-INCH LF	SPV.0090.07* TELEVISING SEWER LF	SPV.0090.13 STEEL CASING PIPE 42-INCH LF	INLET ELEV	DISC ELEV	SLOPE FT/FT
PROJECT 1500-37-71 CONT.																								
	CB-112.4	-	CB-112.6	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	615.24	615.21	0.0050
	CB-112.6	-	CB-112.5	---	21	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	614.96	614.85	0.0050
	CB-112.5	-	MH-112.0	---	31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	614.85	614.70	0.0050
	CB-112.7	-	CB-112.8	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	615.49	615.44	0.0050
	CB-112.8	-	MH-112.0	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	615.44	615.37	0.0050
	MH-114.0	-	MH-116.0	---	---	---	---	---	---	---	---	74	---	---	---	---	---	---	---	---	74	---	610.98	610.39	0.0080
	CB-114.1	-	CB-114.2	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	615.08	614.97	0.0110
	CB-114.2	-	MH-114.3	33	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	614.97	614.81	0.0050
	MH-114.3	-	MH-114.0	---	---	101	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	613.84	613.32	0.0051
	CB-114.4	-	MH-114.3	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	615.02	614.96	0.0070
	CB-114.5	-	CB-114.4	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	615.07	615.02	0.0050
	CB-114.6	-	MH-114.7	29	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	615.60	615.46	0.0050
	MH-114.7	-	MH-114.0	---	---	---	---	---	42	---	---	---	---	---	---	---	---	---	---	---	---	---	613.65	611.97	0.0400
	CB-114.8	-	MH-114.7	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	615.59	615.55	0.0050
	MH-116.0	-	MH-118.0	---	---	---	---	---	---	---	---	156	---	---	---	---	---	---	---	---	156	---	610.39	609.13	0.0080
	CB-116.1	-	CB-116.2	43	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	616.06	615.84	0.0050
	CB-116.2	-	CB-116.3	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	615.84	615.81	0.0050
	CB-116.3	-	MH-116.0	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	615.81	615.75	0.0050
	CB-116.4	-	MH-116.0	14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	616.20	616.13	0.0050
	MH-118.0	-	MH-120.0	---	---	---	---	---	---	---	---	191	---	---	---	---	---	---	---	---	191	---	609.13	607.60	0.0080
	CB-118.1	-	CB-118.2	42	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	617.55	617.34	0.0050
	CB-118.2	-	CB-118.3	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	617.34	617.30	0.0050
	CB-118.3	-	MH-118.0	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	617.30	617.25	0.0050
	CB-118.4	-	MH-118.0	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	617.64	617.57	0.0050
	MH-120.0	-	MH-122.0	---	---	---	---	---	---	---	---	---	---	---	---	251	---	---	---	---	251	---	607.60	605.59	0.0080
	CB-120.1	-	CB-120.2	43	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	619.89	619.68	0.0049
	CB-120.2	-	CB-120.3	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	619.68	619.65	0.0050
	CB-120.3	-	MH-120.0	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	619.65	619.59	0.0050
	CB-120.4	-	MH-120.0	---	---	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	616.56	616.49	0.0050
	CB-120.5	-	CB-120.4	---	---	37	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	616.75	616.56	0.0050
	CB-120.6	-	CB-120.5	---	---	33	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	616.92	616.75	0.0050
	MH-122.0	-	MH-126.0	---	---	---	---	---	---	---	---	---	---	---	---	328	---	---	---	---	328	---	604.76	601.48	0.0100
	MH-122.2	-	MH-122.1	---	---	---	---	186	---	---	---	---	---	---	---	---	---	---	---	---	---	---	607.57	605.71	0.0100
	MH-122.1	-	MH-122.0	---	---	---	---	87	---	---	---	---	---	---	---	---	---	---	---	---	---	---	605.71	604.85	0.0100
	CB-122.3	-	MH-122.2	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	621.84	621.73	0.0050
	CB-122.4	-	MH-122.2	9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	621.87	621.83	0.0050
	CB-122.5	-	MH-122.0	42	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	625.10	624.89	0.0050
	CB-122.6	-	CB-122.5	---	---	---	---	---	---	---	---	---	---	29	---	---	---	---	---	---	---	---	626.24	626.10	0.0050
	EX. PIPE	-	CB-126.1	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	612.80	612.76	0.0050

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER PIPE CONT.

ID	FROM STRUCT.	-	TO STRUCT.	608.0312 REINF. CONC. CLASS III 12-INCH LF	608.0315 REINF. CONC. CLASS III 15-INCH LF	608.0318 REINF. CONC. CLASS III 18-INCH LF	608.0324 REINF. CONC. CLASS III 24-INCH LF	608.0330 REINF. CONC. CLASS III 30-INCH LF	608.0336 REINF. CONC. CLASS III 36-INCH LF	608.0348 REINF. CONC. CLASS III 48-INCH LF	608.0360 REINF. CONC. CLASS III 60-INCH LF	608.0366 REINF. CONC. CLASS III 66-INCH LF	608.0372 REINF. CONC. CLASS III 72-INCH LF	608.0412 REINF. CONC. CLASS IV 12-INCH LF	608.0466 REINF. CONC. CLASS IV 66-INCH LF	608.3030 CLASS III-A 30-INCH LF	SPV.0090.03 PVC 6-INCH LF	SPV.0090.04 PVC 12-INCH LF	SPV.0090.02 REINF. CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 72X113-INCH LF	SPV.0090.07* TELEVISING SEWER LF	SPV.0090.13 STEEL CASING PIPE 42-INCH LF	INLET ELEV	DISC ELEV	SLOPE FT/FT
PROJECT 1500-37-71 CONT.																								
	CB-126.1	-	MH-126.2	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	612.76	612.68	0.0050
	EX. STR.	-	MH-126.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	150	---	---	---	MATCH EXISTING		
	MH-126.2	-	MH-126.4	---	---	---	210	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	610.21	609.16	0.0050
	MH-126.3	-	MH-126.2	---	27	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	612.50	612.23	0.0100
	MH-126.4	-	MH-126.0	---	---	---	61	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	609.16	608.86	0.0050
	CB-126.5	-	MH-126.4	---	67	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	618.68	618.34	0.0050
	CB-126.6	-	CB-126.5	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	619.06	618.93	0.0050
	CB-126.7	-	CB-126.6	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	619.12	619.06	0.0050
	CB-126.8	-	CB-126.7	37	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	619.31	619.12	0.0050
	CB-126.9	-	MH-126.0	35	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	619.26	619.09	0.0050
	CB-126.10	-	CB-126.9	42	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	619.47	619.26	0.0050
	PROJECT TOTAL			4155	1026	246	3677	1020	1803	164	568	421	168	29	579	103	0	150	0	7724	72			
PROJECT 4570-12-71																								
	MH-126.0	-	MH-128.0	---	---	---	---	---	---	---	---	---	---	---	225	---	---	---	---	225	---	601.48	599.23	0.0100
	MH-128.0	-	MH-130.0	---	---	---	---	---	---	---	---	---	---	---	130	---	---	---	---	130	---	599.23	597.93	0.0100
	CB-128.1	-	CB-128.2	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	609.82	609.69	0.0050
	CB-128.2	-	CB-128.3	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	609.69	609.58	0.0050
	CB-128.3	-	MH-128.0	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	609.58	609.52	0.0050
	CB-128.4	-	MH-128.0	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	610.56	610.49	0.0050
	EX. PIPE	-	CB-128.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	8	---	---	---	MATCH EXISTING		
	MH-130.0	-	MH-132.0	---	---	---	---	---	---	---	99	---	---	---	---	---	---	---	---	99	---	597.93	596.94	0.0100
	CB-130.3	-	CB-130.4	---	34	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	602.41	602.14	0.0050
	CB-130.4	-	CB-130.5	---	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	602.14	602.02	0.0050
	CB-130.5	-	MH-130.0	---	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	602.02	601.97	0.0050
	CB-130.6	-	MH-130.0	14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	603.87	603.80	0.0050
	MH-132.0	-	MH-134.0	---	---	---	---	---	---	---	---	---	325	---	---	---	---	---	---	325	---	593.88	591.77	0.0065
	CB-130.1	-	CB-130.2	---	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	602.64	602.51	0.0050
	CB-130.2	-	CB-130.3	---	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	602.51	602.13	0.0050
	MH-132.2	-	CB-132.5	---	---	---	16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	594.06	594.03	0.0020
	CB-132.4	-	CB-132.5	27	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	602.54	602.41	0.0051
	CB-132.5	-	MH-132.0	---	---	---	76	---	---	---	---	---	---	---	---	---	---	---	---	---	---	594.03	593.88	0.0020
	CB-132.6	-	MH-132.0	---	31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	600.35	600.19	0.0050
	CB-132.7	-	CB-132.6	27	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	600.73	600.60	0.0050
	CB-132.9	-	CB-132.8	---	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	602.46	602.32	0.0051

NOTE: CONNECTIONS TO PRIVATE LATERALS AND HANGERS NECESSARY TO ATTACH PVC PIPE TO EXISTING STORM SEWER ARE INCIDENTAL TO THE STORM SEWER PIPE PVC 12-INCH BID ITEM (EX. STRUCT. TO MH-126.2)

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER PIPE CONT.

ID	FROM STRUCT.	-	TO STRUCT.	608.0312 REINF. CONC. CLASS III 12-INCH LF	608.0315 REINF. CONC. CLASS III 15-INCH LF	608.0318 REINF. CONC. CLASS III 18-INCH LF	608.0324 REINF. CONC. CLASS III 24-INCH LF	608.0330 REINF. CONC. CLASS III 30-INCH LF	608.0336 REINF. CONC. CLASS III 36-INCH LF	608.0348 REINF. CONC. CLASS III 48-INCH LF	608.0360 REINF. CONC. CLASS III 60-INCH LF	608.0366 REINF. CONC. CLASS III 66-INCH LF	608.0372 REINF. CONC. CLASS III 72-INCH LF	608.0412 REINF. CONC. CLASS IV 12-INCH LF	608.0466 REINF. CONC. CLASS IV 66-INCH LF	608.3030 CLASS III-A 30-INCH LF	SPV.0090.03 PVC 6-INCH LF	SPV.0090.04 PVC 12-INCH LF	SPV.0090.02 REINF. CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 72X113-INCH LF	SPV.0090.07* TELEVISING SEWER LF	SPV.0090.13 STEEL CASING PIPE 42-INCH LF	INLET ELEV	DISC ELEV	SLOPE FT/FT
PROJECT 4570-12-71 CONT.																								
	CB-132.8	-	CB-132.6	---	34	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	602.32	602.15	0.0050
	MH-134.0	-	MH-136.0	---	---	---	---	---	---	---	---	---	366	---	---	---	---	---	---	---	366	---	591.77	588.48	0.0090
	CB-134.1	-	MH-134.2	24	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	597.31	597.19	0.0050
	MH-134.2	-	CB-134.3	---	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	596.30	596.25	0.0050
	CB-134.3	-	CB-134.4	---	31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	596.18	595.87	0.0100
	CB-134.4	-	CB-134.5	---	36	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	595.87	595.37	0.0140
	CB-134.5	-	CB-134.6	---	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	595.37	595.02	0.0150
	CB-134.6	-	MH-134.0	---	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	595.02	594.83	0.0160
	CB-134.7	-	MH-134.0	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	597.30	597.23	0.0050
	CB-134.8	-	MH-134.0	62	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	596.37	595.38	0.0160
	CB-134.9	-	CB-134.8	29	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	596.60	596.37	0.0080
	EX. PIPE	-	CB-134.8	---	---	---	---	---	---	---	---	---	---	---	---	---	8	---	---	---	---	---	597.96	597.92	0.0050
	MH-136.0	-	MH-138.0	---	---	---	---	---	---	---	---	---	310	---	---	---	---	---	---	---	310	---	588.48	586.35	0.0068
	EX. STR.	-	CB-136.3	---	38	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	593.70	592.75	0.0250
	CB-136.3	-	CB-136.4	---	---	31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	592.50	592.19	0.0100
	CB-136.4	-	CB-136.5	---	---	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	592.19	591.96	0.0100
	CB-136.5	-	MH-136.0	---	---	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	591.96	591.84	0.0100
	CB-136.6	-	MH-136.0	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	594.24	594.17	0.0050
	MH-138.0	-	MH-140.0	---	---	---	---	---	---	---	---	---	300	---	---	---	---	---	---	---	300	---	586.35	584.30	0.0069
	CB-138.1	-	CB-138.2	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	592.00	591.87	0.0050
	CB-138.2	-	CB-138.3	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	591.87	591.76	0.0050
	CB-138.3	-	MH-138.0	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	591.76	591.70	0.0050
	CB-138.4	-	MH-138.0	14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	591.93	591.86	0.0050
	MH-140.0	-	MH-142.0	---	---	---	---	---	---	---	---	---	300	---	---	---	---	---	---	---	300	---	584.30	582.24	0.0068
	CB-140.1	-	CB-140.2	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	589.35	589.22	0.0050
	CB-140.2	-	CB-140.3	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	589.22	589.11	0.0050
	CB-140.3	-	MH-140.0	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	589.11	589.05	0.0050
	CB-140.4	-	MH-140.0	14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	589.35	589.28	0.0050
	MH-142.0	-	MH-144.0	---	---	---	---	---	---	---	---	---	235	---	---	---	---	---	---	---	235	---	582.24	580.63	0.0069
	CB-142.1	-	CB-142.2	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	586.64	586.51	0.0050
	CB-142.2	-	CB-142.3	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	586.51	586.40	0.0050
	CB-142.3	-	MH-142.0	28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	586.40	586.26	0.0050
	MH-144.0	-	OF-3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	57	57	---	580.63	580.51	0.0020
	CB-150.0	-	OF-3A	---	---	---	45	---	---	---	---	---	---	---	---	---	---	---	---	---	45	---	580.61	580.51	0.0021
	CB-150.1	-	CB-150.2	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	583.67	583.54	0.0050
	CB-150.2	-	CB-150.3	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	583.54	583.42	0.0050
	CB-150.3	-	CB-150.0	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	583.42	583.29	0.0050
	CB-152.0	-	CB-150.0	---	---	---	285	---	---	---	---	---	---	---	---	---	---	---	---	---	285	---	581.09	580.61	0.0017

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER PIPE CONT.

ID	FROM STRUCT.	-	TO STRUCT.	608.0312 REINF. CONC. CLASS III 12-INCH LF	608.0315 REINF. CONC. CLASS III 15-INCH LF	608.0318 REINF. CONC. CLASS III 18-INCH LF	608.0324 REINF. CONC. CLASS III 24-INCH LF	608.0330 REINF. CONC. CLASS III 30-INCH LF	608.0336 REINF. CONC. CLASS III 36-INCH LF	608.0348 REINF. CONC. CLASS III 48-INCH LF	608.0360 REINF. CONC. CLASS III 60-INCH LF	608.0366 REINF. CONC. CLASS III 66-INCH LF	608.0372 REINF. CONC. CLASS III 72-INCH LF	608.0412 REINF. CONC. CLASS IV 12-INCH LF	608.0466 REINF. CONC. CLASS IV 66-INCH LF	608.3030 CLASS III-A 30-INCH LF	SPV.0090.03 PVC 6-INCH LF	SPV.0090.04 PVC 12-INCH LF	SPV.0090.02 REINF. CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 72X113-INCH LF	SPV.0090.07* TELEVISING SEWER LF	SPV.0090.13 STEEL CASING PIPE 42-INCH LF	INLET ELEV	DISC ELEV	SLOPE FT/FT
PROJECT 4570-12-71 CONT.																								
	CB-152.1	-	CB-152.3	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	582.13	582.01	0.0044
	CB-152.2	-	CB-152.1	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	582.17	582.13	0.0044
	CB-152.3	-	CB-152.5	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	582.01	581.91	0.0044
	CB-152.4	-	CB-152.3	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	582.06	582.01	0.0044
	CB-152.5	-	CB-152.7	---	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	581.66	581.55	0.0044
	CB-152.6	-	CB-152.5	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	581.95	581.91	0.0044
	CB-152.7	-	CB-152.0	---	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	581.55	581.50	0.0050
	MH-160.0	-	EW-160.5	---	---	---	46	---	---	---	---	---	---	---	---	---	---	---	---	---	---	46	581.49	581.26	0.0050
	CB-160.1	-	CB-160.2	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	582.46	582.33	0.0050
	CB-160.2	-	CB-160.3	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	582.33	582.21	0.0050
	CB-160.3	-	MH-160.0	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	582.21	582.10	0.0050
	CB-160.4	-	CB-160.3	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	582.48	582.35	0.0050
	MH-162.0	-	MH-160.0	---	---	---	246	---	---	---	---	---	---	---	---	---	---	---	---	---	246	---	582.72	581.49	0.0050
	CB-162.1	-	CB-162.2	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	583.69	583.62	0.0030
	CB-162.2	-	CB-162.3	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	583.62	583.55	0.0030
	CB-162.3	-	MH-162.0	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	583.55	583.51	0.0050
	CB-162.4	-	MH-162.0	19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	583.73	583.64	0.0050
	MH-164.0	-	MH-162.0	---	---	---	259	---	---	---	---	---	---	---	---	---	---	---	---	---	259	---	584.02	582.72	0.0050
	EW-164.10	-	CB-164.2	---	---	21	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	585.95	584.80	0.0559
	CB-164.2	-	CB-164.3	---	---	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	584.80	584.67	0.0050
	CB-164.3	-	CB-164.4	---	---	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	584.67	584.56	0.0050
	CB-164.4	-	MH-164.0	---	---	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	584.56	584.52	0.0050
	CB-164.5	-	MH-164.0	19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	584.97	584.88	0.0050
	MH-166.0	-	MH-164.0	---	---	---	170	---	---	---	---	---	---	---	---	---	---	---	---	---	170	---	584.86	584.02	0.0050
	CB-166.1	-	CB-166.2	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	585.53	585.40	0.0050
	CB-166.2	-	CB-166.3	19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	585.40	585.30	0.0050
	CB-166.3	-	MH-166.0	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	585.30	585.25	0.0050
	CB-166.4	-	MH-166.0	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	585.77	585.70	0.0050
	CB-170.1	-	CB-170.2	43	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	585.39	585.17	0.0050
	CB-170.2	-	CB-172.2	---	---	93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	584.67	584.21	0.0050
	CB-170.3	-	CB-170.2	26	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	585.30	585.17	0.0050
	CB-170.4	-	CB-170.3	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	585.36	585.30	0.0050
	MH-172.0	-	MH-174.0	---	---	52	---	---	---	---	---	---	---	---	---	---	---	---	---	---	52	---	584.03	583.78	0.0050
	CB-172.1	-	MH-172.0	46	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	584.77	584.53	0.0050
	CB-172.2	-	MH-172.0	---	---	35	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	584.21	584.03	0.0050
	MH-174.0	-	CB-174.10	---	---	---	12	---	---	---	---	---	---	---	---	---	---	---	---	---	12	---	581.36	581.23	0.0100
	CB-174.1	-	CB-174.2	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	585.89	585.84	0.0051
	CB-174.10	-	CB-174.12	---	---	---	23	---	---	---	---	---	---	---	---	---	---	---	---	---	23	---	581.23	581.00	0.0100

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

STORM SEWER PIPE CONT.

ID	FROM STRUCT.	-	TO STRUCT.	608.0312 REINF. CONC. CLASS III 12-INCH LF	608.0315 REINF. CONC. CLASS III 15-INCH LF	608.0318 REINF. CONC. CLASS III 18-INCH LF	608.0324 REINF. CONC. CLASS III 24-INCH LF	608.0330 REINF. CONC. CLASS III 30-INCH LF	608.0336 REINF. CONC. CLASS III 36-INCH LF	608.0348 REINF. CONC. CLASS III 48-INCH LF	608.0360 REINF. CONC. CLASS III 60-INCH LF	608.0366 REINF. CONC. CLASS III 66-INCH LF	608.0372 REINF. CONC. CLASS III 72-INCH LF	608.0412 REINF. CONC. CLASS IV 12-INCH LF	608.0466 REINF. CONC. CLASS IV 66-INCH LF	608.3030 CLASS III-A 30-INCH LF	SPV.0090.03 PVC 6-INCH LF	SPV.0090.04 PVC 12-INCH LF	SPV.0090.02 REINF. CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 72X113-INCH LF	SPV.0090.07* TELEVISING SEWER LF	SPV.0090.13 STEEL CASING PIPE 42-INCH LF	INLET ELEV	DISC ELEV	SLOPE FT/FT
PROJECT 4570-12-71 CONT.																								
	CB-174.11	-	CB-174.12	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	585.14	585.09	0.0050
	CB-174.12	-	EW-174.13	---	---	---	76	---	---	---	---	---	---	---	---	---	---	---	---	---	76	---	581.00	579.86	0.0150
	CB-174.2	-	CB-174.4	21	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	585.84	585.74	0.0050
	CB-174.3	-	CB-174.4	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	585.78	585.74	0.0049
	CB-174.4	-	CB-174.6	39	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	585.74	585.54	0.0050
	CB-174.5	-	CB-174.6	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	585.59	585.54	0.0049
	CB-174.6	-	CB-174.8	---	23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	585.29	585.18	0.0050
	CB-174.7	-	CB-174.8	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	585.48	585.43	0.0050
	CB-174.8	-	MH-174.0	---	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	585.18	585.11	0.0050
	CB-174.9	-	CB-174.10	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	585.54	585.49	0.0050
	MH-180.0	-	CB-180.4	---	---	---	33	---	---	---	---	---	---	---	---	---	---	---	---	---	33	---	582.12	582.02	0.0030
	IN-180.1	-	CB-180.2	---	---	125	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	583.45	582.82	0.0050
	CB-180.2	-	CB-180.3	---	---	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	582.82	582.67	0.0050
	CB-180.3	-	MH-180.0	---	---	9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	582.67	582.62	0.0050
	CB-180.4	-	CB-180.5	---	---	---	30	---	---	---	---	---	---	---	---	---	---	---	---	---	30	---	582.02	581.93	0.0030
	CB-180.5	-	EW-180.6	---	---	---	54	---	---	---	---	---	---	---	---	---	---	---	---	---	54	---	581.93	581.10	0.0155
	CB-182.1	-	CB-182.2	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	583.16	583.12	0.0040
	CB-182.2	-	CB-182.4	35	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	583.12	582.98	0.0040
	CB-182.3	-	CB-182.4	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	583.02	582.98	0.0040
	CB-182.4	-	MH-180.0	---	---	213	---	---	---	---	---	---	---	---	---	---	---	---	---	---	213	---	582.98	582.12	0.0040
	CB-182.5	-	CB-182.4	17	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	583.05	582.98	0.0040
	CB-182.6	-	CB-182.5	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	583.09	583.05	0.0040
	CB-182.7	-	CB-182.5	34	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	583.18	583.05	0.0040
	CB-182.8	-	CB-182.7	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	583.22	583.18	0.0040
	CB-184.0	-	CB-182.3	110	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	583.57	583.02	0.0050
	EX INLET	-	MH-172.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	28	---	---	---	MATCH EXISTING, STG 1A, P1		
	PROJECT TOTAL			1411	447	700	1371	0	0	0	0	99	1836	0	355	0	8	36	57	3891	0			
	TOTAL			5566	1550	946	5048	1020	1803	164	568	520	2004	29	934	103	8	186	57	11615	72			

*-ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER MANHOLES AND MANHOLE COVERS

ID	STRUCTURE	STA.	OFFSET*	LOCATION	611.0535 MANHOLE COVERS TYPE J-S EA	SPV.0060.03 MANHOLE COVERS BOLTED EA	611.2004 MANHOLES 4-FT DIAMETER EA	611.2005 MANHOLES 5-FT DIA. EA	611.2006 MANHOLES 6-FT DIA. EA	611.2007 MANHOLES 7-FT DIA. EA	611.2008 MANHOLES 8-FT DIA. EA	611.2504 MANHOLES VARIABLE TEE 4-FT DIA. EA	SPV.0060.08 MANHOLES 10-FT DIAMETER SPECIAL EA	SPV.0060.09 MANHOLES 9.5X16-FT SPECIAL EA	650.4000**** CONSTRUCTION STAKING STORM SEWER EA	RIM ELEV.	INVERT** ELEV.	DEPTH*** FT
PROJECT 1500-47-71																		
	MH-2.0	45+08	34.9' LT	USH 10 WB	1	---	1	---	---	---	---	---	---	---	1	655.63	648.00	6.57
	MH-3.0	45+21	5.0' LT	USH 10 EB	1	---	---	---	---	---	1	---	---	---	1	654.61	646.88	6.71
		PROJECT TOTALS			2	0	1	0	0	0	1	0	0	0	2			
PROJECT 1500-37-71																		
	MH-18.0	70+03	6' LT	USH 10 EB	1	---	1	---	---	---	---	---	---	---	1	641.69	633.77	6.86
	MH-20.0	70+80	11' RT	USH 10 EB	1	---	---	1	---	---	---	---	---	---	1	641.00	631.50	8.50
	MH-24.0	72+25	11' RT	USH 10 EB	1	---	1	---	---	---	---	---	---	---	1	642.58	636.90	4.68
	MH-24.3	10+76	14.0 LT	FLEETWOOD DR.	1	---	---	1	---	---	---	---	---	---	1	643.07	638.63	3.44
	MH-26.0	73+16	11' RT	USH 10 EB	1	---	1	---	---	---	---	---	---	---	1	645.22	638.73	5.49
	MH-28.0	76+00	11' RT	USH 10 EB	1	---	1	---	---	---	---	---	---	---	1	658.82	652.92	4.90
	MH-30.0	79+00	11' RT	USH 10 EB	1	---	1	---	---	---	---	---	---	---	1	672.52	666.42	5.10
	MH-40.0	85+13	7.8' RT	USH 10 EB	1	---	1	---	---	---	---	---	---	---	1	674.54	668.73	4.82
	MH-42.0	88+00	7.8' RT	USH 10 EB	1	---	1	---	---	---	---	---	---	---	1	662.91	657.25	4.67
	MH-44.0	90+91	8.7' RT	USH 10 EB	1	---	1	---	---	---	---	---	---	---	1	649.97	642.68	6.30
	MH-46.0	91+57	7.4' RT	USH 10 EB	1	---	---	---	---	---	---	---	1	---	1	648.36	628.97	18.72
	MH-48.0	92+88	6' RT	USH 10 EB	1	---	---	1	---	---	---	---	---	---	1	647.06	631.96	14.18
	MH-50.0	94+08	6' RT	USH 10 EB	1	---	---	1	---	---	---	---	---	---	1	647.57	632.21	14.44
	MH-52.0	95+54	8' LT	USH 10 EB	1	---	---	1	---	---	---	---	---	---	1	648.87	632.50	15.45
	MH-54.0	98+54	8' LT	USH 10 EB	1	---	---	1	---	---	---	---	---	---	1	648.08	633.10	14.07
	MH-58.0	99+97	7.9' LT	USH 10 EB	1	---	---	1	---	---	---	---	---	---	1	647.28	633.88	12.45
	MH-60.0	101+00	8' LT	USH 10 EB	1	---	---	1	---	---	---	---	---	---	1	648.63	640.58	7.09
	MH-64.0	103+51	8' LT	USH 10 EB	1	---	---	1	---	---	---	---	---	---	1	649.89	641.08	7.86
	MH-66.0	106+15	5.8' LT	USH 10 EB	---	---	1	---	---	---	---	---	---	---	1	649.89	642.38	6.76
	MH-66.5	09+57	22.2' LT	N. 20TH ST.	1	---	1	---	---	---	---	---	---	---	1	650.02	643.98	4.96
	MH-68.0	107+23	11' RT	USH 10 EB	1	---	1	---	---	---	---	---	---	---	1	649.77	642.86	5.91
	MH-70.0	109+63	11' RT	USH 10 EB	1	---	1	---	---	---	---	---	---	---	1	647.37	641.66	4.72
	MH-72.0	112+76	11' RT	USH 10 EB	1	---	1	---	---	---	---	---	---	---	1	645.75	640.09	4.67
	MH-74.0	115+11	11' RT	USH 10 EB	1	---	1	---	---	---	---	---	---	---	1	644.55	638.92	4.64
	MH-76.0	117+67	11' RT	USH 10 EB	1	---	---	1	---	---	---	---	---	---	1	643.17	637.00	5.18
	MH-78.0	10+76	7.7' LT	N 18TH ST	1	---	1	---	---	---	---	---	---	---	1	643.03	637.39	4.64
	MH-80.0	09+30	6.2' LT	N. 18TH ST.	1	---	1	---	---	---	---	---	---	---	1	643.25	636.84	5.35
	MH-82.0	118+16	11' RT	USH 10 EB	1	---	---	1	---	---	---	---	---	---	1	642.87	636.63	5.24
	MH-84.0	120+50	11' RT	USH 10 EB	1	---	1	---	---	---	---	---	---	---	1	639.42	633.11	5.32
	MH-86.0	121+61	11.1' RT	USH 10 EB	1	---	---	1	---	---	---	---	---	---	1	637.60	630.87	5.78
	MH-90.0	123+25	11' RT	USH 10 EB	1	---	---	1	---	---	---	---	---	---	1	635.73	629.23	5.55
	MH-92.0	125+15	11' RT	USH 10 EB	1	---	---	1	---	---	---	---	---	---	1	633.78	627.33	5.53
	MH-96.0	127+75	11' RT	USH 10 EB	1	---	---	1	---	---	---	---	---	---	1	632.78	624.73	7.14

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER MANHOLES AND MANHOLE COVERS CONT.

ID	STRUCTURE	STA.	OFFSET*	LOCATION	611.0535 MANHOLE COVERS TYPE J-S EA	SPV.0060.03 MANHOLE COVERS BOLTED EA	611.2004 MANHOLES 4-FT DIAMETER EA	611.2005 MANHOLES 5-FT DIA. EA	611.2006 MANHOLES 6-FT DIA. EA	611.2007 MANHOLES 7-FT DIA. EA	611.2008 MANHOLES 8-FT DIA. EA	611.2504 MANHOLES VARIABLE TEE 4-FT DIA. EA	SPV.0060.08 MANHOLES 10-FT DIAMETER SPECIAL EA	SPV.0060.09 MANHOLES 9.5X16-FT SPECIAL EA	650.4000**** CONSTRUCTION STAKING STORM SEWER EA	RIM ELEV.	INVERT** ELEV.	DEPTH*** FT
PROJECT 1500-37-71 CONT.																		
	MH-100.0	130+59	11' RT	USH 10 EB	1	---	---	1	---	---	---	---	---	---	1	630.51	621.90	7.71
	MH-102.0	133+43	10.9' RT	USH 10 EB	1	---	---		1	---	---	---	---	---	1	627.33	619.05	7.37
	MH-104.0	134+08	11' RT	USH 10 EB	1	---	---	1	---	---	---	---	---	---	1	626.49	618.24	7.34
	MH-105.0	10+90	13.5' RT	MENASHA AVE.	1	---	---	---	---	1	---	---	---	---	1	624.76	616.45	7.49
	MH-106.0	135+77	11' RT	USH 10 EB	1	---	---	---	---	---	---	---	1	---	1	624.27	615.22	8.31
	MH-108.0	136+41	11' RT	USH 10 EB	1	---	---	---	---	---	1	---	---	---	1	623.56	614.74	8.08
	MH-108.1	10+80	10.4' LT	N. 12TH ST.	1	---	---	1	---	---	---	---	---	---	1	622.82	617.16	4.67
	MH-110.0	138+24	11' RT	USH 10 EB	1	---	---	---	---	---	1	---	---	---	1	622.13	613.37	8.02
	MH-112.0	141+02	11' RT	USH 10 EB	1	---	---	---	---	---	1	---	---	---	1	620.34	611.30	8.31
	MH-114.0	141+45	11' RT	USH 10 EB	1	---	---	---	---	---	---	---	1	---	1	620.37	610.98	8.69
	MH-114.3	10+90	12.3' LT	N. 11TH ST.	1	---	1	---	---	---	---	---	---	---	1	620.03	613.84	5.16
	MH-114.7	9+47	10.4' LT	N. 11TH ST.	1	---	---	1	---	---	---	---	---	---	1	620.39	613.65	5.84
	MH-116.0	142+19	11' RT	USH 10 EB	---	1	---	---	---	---	---	---	1	---	1	621.11	610.39	10.02
	MH-118.0	143+75	11' RT	USH 10 EB	---	1	---	---	---	---	---	1	---	---	1	622.53	609.13	12.15
	MH-120.0	145+66	11' RT	USH 10 EB	1	---	---	---	---	---	---	1	---	---	1	624.82	607.60	15.98
	MH-122.0	148+17	11' RT	USH 10 EB	1	---	---	---	---	---	---	---	1	---	1	629.68	604.76	24.21
	MH-122.1	10+75	8' LT	N. 9TH ST.	1	---	---	1	---	---	---	---	---	---	1	629.32	605.71	22.65
	MH-122.2	12+61	8' LT	N. 9TH ST.	1	---	---	---	---	---	1	---	---	---	1	626.51	607.57	17.99
	MH-126.0	151+45	11' RT	USH 10 EB	1	---	---	---	---	---	---	1	---	---	1	623.85	601.48	21.12
	MH-126.2	12+61	5' LT	N. 8TH ST.	1	---	1	---	---	---	---	---	---	---	1	618.53	610.21	7.33
	MH-126.3	12+76	17.2' RT	N. 8TH ST.	1	---	1	---	---	---	---	---	---	---	1	618.19	612.50	4.64
	MH-126.4	151+46	25.8' LT	USH 10 WB	1	---	1	---	---	---	---	---	---	---	1	623.17	609.16	13.02
		PROJECT TOTALS			52	2	21	20	1	1	4	3	5	0	55			
PROJECT 4570-12-71																		
	MH-128.0	153+70	11' RT	STH 42 NB	---	1	---	---	---	---	---	1	---	---	1	615.45	599.23	14.97
	MH-130.0	155+00	11' RT	STH 42 NB	---	1	---	---	---	---	---	---	1	---	1	609.68	597.93	11.05
	MH-132.0	155+99	11' RT	STH 42 NB	---	1	---	---	---	---	---	---	1	---	1	607.56	593.88	13.01
	MH-132.2	10+79	17.5' LT	E. LINCOLN BLVD.	1	---	---	---	---	---	1	---	---	---	1	608.29	592.06	14.99
	MH-134.0	159+24	11' RT	STH 42 NB	---	1	---	---	---	---	---	---	1	---	1	602.13	591.77	9.71
	MH-134.2	10+72	8.8' LT	N. 6TH ST.	1	---	1	---	---	---	---	---	---	---	1	602.16	596.30	4.80
	MH-136.0	162+90	11' RT	STH 42 NB	---	1	---	---	---	---	---	---	1	---	1	599.13	588.48	10.00
	MH-138.0	166+00	11' RT	STH 42 NB	---	1	---	---	---	---	---	---	1	---	1	596.82	586.35	9.81
	MH-140.0	169+00	11' RT	STH 42 NB	---	1	---	---	---	---	---	---	1	---	1	594.24	584.30	9.29
	MH-142.0	172+00	27.9' RT	STH 42 NB	---	1	---	---	---	---	---	---	1	---	1	591.88	582.24	8.98
	MH-144.0	174+35	27.9' RT	STH 42 NB	---	1	---	---	---	---	---	---	---	1	1	589.76	580.63	8.48

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

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STORM SEWER MANHOLES AND MANHOLE COVERS CONT.

ID	STRUCTURE	STA.	OFFSET*	LOCATION	611.0535 MANHOLE COVERS TYPE J-S EA	SPV.0060.03 MANHOLE COVERS BOLTED EA	611.2004 MANHOLES 4-FT DIAMETER EA	611.2005 MANHOLES 5-FT DIA. EA	611.2006 MANHOLES 6-FT DIA. EA	611.2007 MANHOLES 7-FT DIA. EA	611.2008 MANHOLES 8-FT DIA. EA	611.2504 MANHOLES VARIABLE TEE 4-FT DIA. EA	SPV.0060.08 MANHOLES 10-FT DIAMETER SPECIAL EA	SPV.0060.09 MANHOLES 9.5X16-FT SPECIAL EA	650.4000**** CONSTRUCTION STAKING STORM SEWER EA	RIM ELEV.	INVERT** ELEV.	DEPTH*** FT
PROJECT 4570-12-71 CONT.																		
	MH-160.0	179+82	6.8' RT	STH 42 NB	1	---	---	1	---	---	---	---	---	---	1	587.38	581.49	4.89
	MH-162.0	182+28	6.5' RT	STH 42 NB	1	---	1	---	---	---	---	---	---	---	1	588.53	582.72	4.81
	MH-164.0	184+87	6.7' RT	STH 42 NB	1	---	---	1	---	---	---	---	---	---	1	589.78	584.02	4.76
	MH-166.0	186+56	10.8' RT	STH 42 NB	1	---	1	---	---	---	---	---	---	---	1	590.66	584.86	4.80
	MH-172.0	13+59	19' RT	NMW	1	---	1	---	---	---	---	---	---	---	1	591.15	584.03	6.08
	MH-174.0	13+05	14.5' RT	NMW	1	---	---	1	---	---	---	---	---	---	1	590.83	581.36	8.47
	MH-180.0	192+25	33.6' LT	STH 42 NB	1	---	---	1	---	---	---	---	---	---	1	589.98	582.12	6.86
	PROJECT TOTALS				9	9	4	4	0	0	1	1	7	1	18			
	TOTALS				63	11	26	24	1	1	6	4	12	1	75			

NOTES:
* STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE
** FOR STRUCTURES WITH SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE SUMP. FOR STRUCTURES WITHOUT SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE
*** DEPTH = RIM ELEV - TOP OF STRUCTURE BASE ELEV - COVER HEIGHT - 6 -INCH ADJUSTMENT RING HEIGHT
**** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER CATCH BASINS & INLETS AND COVERS

ID	STRUCT.	STA.	OFFSET*	LOCATION	611.0624 H EA	611.0630 HM-GJ EA	611.0639 H-S EA	611.0642 MS EA	611.0652 T EA	SPV.0060.01 DW EA	SPV.0060.02 BH EA	611.1004 4-FT DIA. EA	611.1005 5-FT DIA. EA	611.1006 6-FT DIA. EA	611.1230 2x3-FT EA	611.3003 INLETS 3-FT DIA. EA	611.3901 INLETS MEDIAN 1 GRATE EA	650.4000**** CONSTR. STAKING STORM SEWER EA	RIM ELEV.	INVERT** ELEV.	DEPTH*** FT
					INLET COVERS TYPE							CATCH BASINS									
PROJECT 1500-47-71																					
	IN-1.0	45+01	55.5' LT	USH 10 WB	---	---	---	1	---	---	---	---	---	---	---	---	1	1	653.30	648.52	4.97
			PROJECT TOTALS		0	0	0	1	0	0	0	0	0	0	0	0	1	1			
PROJECT 1500-37-71																					
	CB-20.1	70+90	25.4' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	640.79	634.21	5.57
	CB-20.2	70+80	25.2' LT	USH 10 WB	---	---	1	---	---	---	---	---	---	---	1	---	---	1	640.78	634.16	5.62
	CB-20.3	70+90	0.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	640.84	634.26	5.57
	CB-20.4	70+80	0.5' RT	USH 10 WB	---	---	1	---	---	---	---	---	---	---	1	---	---	1	640.83	634.04	5.79
	CB-20.5	70+90	12.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	640.65	634.08	5.57
	CB-20.6	70+80	12.7' RT	USH 10 WB	---	---	1	---	---	---	---	---	---	---	1	---	---	1	640.64	633.72	5.92
	CB-20.7	70+90	25.4' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	640.71	634.13	5.57
	CB-22.0	70+80	25.3' RT	USH 10 EB	---	---	1	---	---	---	---	---	---	---	1	---	---	1	640.70	628.01	11.69
	CB-24.1	10+64	25.8' RT	FLEETWOOD DR.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	642.42	636.85	4.57
	CB-24.2	10+64	32.8' LT	FLEETWOOD DR.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	642.29	636.63	4.66
	CB-26.1	73+16	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	644.89	637.97	5.91
	CB-26.2	73+17	0.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	644.97	637.84	6.13
	CB-26.3	73+17	0.5' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	645.00	637.73	6.27
	CB-26.4	73+16	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	644.90	638.06	5.84
	CB-28.1	76+00	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	658.29	651.56	5.73
	CB-28.2	76+00	0.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	658.35	651.43	5.92
	CB-28.3	76+00	0.5' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	658.75	651.37	6.38
	CB-28.4	76+00	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	658.51	651.77	5.74
	CB-30.1	79+08	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	672.36	665.48	5.88
	CB-30.2	79+08	0.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	672.43	665.35	6.08
	CB-30.3	79+00	0.5' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	672.27	665.31	5.96
	CB-30.4	79+00	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	672.21	665.31	5.89
	CB-40.1	85+05	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	674.43	667.85	5.58
	CB-40.2	85+05	0.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	674.80	667.72	6.07
	CB-40.3	85+13	0.5' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	674.53	667.68	5.85
	CB-40.4	85+13	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	674.19	667.62	5.58
	CB-42.1	87+92	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	663.05	656.32	5.73
	CB-42.2	87+92	0.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	663.11	656.19	5.92
	CB-42.3	88+00	0.5' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	662.72	656.14	5.58
	CB-42.4	88+00	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	662.66	656.08	5.58
	CB-44.1	90+91	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	649.79	643.21	5.58
	CB-44.2	90+91	0.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	649.85	643.08	5.76
	CB-44.3	90+91	0.5' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	649.82	643.03	5.79
	CB-44.4	90+91	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	649.70	643.12	5.58

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER CATCH BASINS & INLETS AND COVERS CONT.

ID	STRUCT.	STA.	OFFSET*	LOCATION	611.0624 INLET COVERS TYPE H EA	611.0630 INLET COVERS TYPE HM-GJ EA	611.0639 INLET COVERS TYPE H-S EA	611.0642 INLET COVERS TYPE MS EA	611.0652 INLET COVERS TYPE T EA	SPV.0060.01 INLET COVERS TYPE DW EA	SPV.0060.02 INLET COVERS TYPE BH EA	611.1004 CATCH BASINS 4-FT DIA. EA	611.1005 CATCH BASINS 5-FT DIA. EA	611.1006 CATCH BASINS 6-FT DIA. EA	611.1230 CATCH BASINS 2x3-FT EA	611.3003 INLETS 3-FT DIA. EA	611.3901 INLETS MEDIAN 1 GRATE EA	650.4000**** CONSTR. STAKING STORM SEWER EA	RIM ELEV.	INVERT** ELEV.	DEPTH*** FT
PROJECT 1500-37-71 CONT.																					
	CB-48.1	10+78	17.7' RT	N. 23RD ST.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	647.15	640.26	5.89
	CB-48.2	10+87	27.5' LT	N. 23RD ST.	---	---	1	---	---	---	---	1	---	---	---	---	---	1	646.61	637.70	7.91
	CB-48.3	92+90	25.5' LT	USH 10 WB	---	---	1	---	---	---	---	---	---	---	1	---	---	1	646.97	637.43	8.54
	CB-48.4	92+80	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	1	---	---	---	---	1	646.97	637.43	8.54
	CB-48.5	92+90	0.5' RT	USH 10 WB	---	---	1	---	---	---	---	---	---	---	1	---	---	1	647.02	637.25	8.77
	CB-48.6	92+80	0.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	647.03	639.61	6.42
	CB-48.7	92+89	11.6' LT	USH 10 EB	---	---	1	---	---	---	---	---	---	---	1	---	---	1	647.02	636.95	9.06
	CB-48.8	92+96	12.5' LT	USH 10 EB	---	---	1	---	---	---	---	---	---	---	1	---	---	1	647.03	639.51	6.52
	CB-48.9	92+88	25.5' RT	USH 10 EB	---	---	1	---	---	---	---	---	---	---	1	---	---	1	646.85	639.39	6.46
	CB-48.10	92+98	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	646.86	639.69	6.17
	CB-48.11	9+46	18' LT	N. 23RD ST.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	646.62	639.93	5.69
	CB-48.12	9+46	18' RT	N. 23RD ST.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	646.71	640.11	5.60
	CB-50.1	94+04	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	647.28	640.57	5.71
	CB-50.2	94+04	12.3' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	647.40	640.38	6.02
	CB-50.3	94+08	0.5' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	647.60	640.32	6.27
	CB-50.4	94+08	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	647.36	640.65	5.71
	CB-52.1	95+60	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	647.77	641.19	5.58
	CB-52.2	95+60	0.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	647.83	641.06	5.77
	CB-52.3	95+60	0.5' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	648.18	641.41	5.77
	CB-52.4	95+60	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	648.12	641.54	5.57
	CB-54.1	98+60	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	647.38	640.80	5.58
	CB-54.2	98+60	0.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	647.44	640.67	5.77
	CB-54.3	98+61	0.5' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	647.30	640.54	5.77
	CB-54.4	98+61	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	647.24	640.67	5.57
	CB-56.1	99+95	1.2' LT	USH 10 EB	1	---	---	---	---	---	---	1	---	---	---	---	---	1	646.76	639.31	6.46
	CB-56.2	99+85	3.7' LT	USH 10 EB	---	---	1	---	---	---	---	1	---	---	---	---	---	1	646.76	639.36	6.40
	CB-56.3	99+76	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	646.62	639.51	6.11
	CB-56.4	99+66	25.8' RT	USH 10 EB	---	---	1	---	---	---	---	---	---	---	1	---	---	1	646.76	639.81	5.95
	CB-56.5	9+64	14.3' RT	MENCHL DR.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	646.46	639.93	5.53
	CB-56.6	9+25	14.1' LT	MENCHL DR.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	646.75	640.17	5.58
	CB-58.1	100+57	52.7' LT	USH 10 WB	---	---	---	---	---	---	1	---	---	---	---	1	---	1	647.72	644.47	2.92
	CB-58.2	100+38	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	646.99	640.62	5.37
	CB-58.3	100+02	25.5' LT	USH 10 WB	---	---	1	---	---	---	---	---	---	---	1	---	---	1	646.88	640.27	5.61
	CB-58.4	100+10	0.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	647.04	640.40	5.64
	CB-58.5	100+00	0.5' RT	USH 10 WB	---	---	1	---	---	---	---	---	---	---	1	---	---	1	646.94	639.76	6.18
	CB-64.1	10+78	17.4' LT	N. 21ST ST.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	649.37	642.79	5.58
	CB-64.2	10+74	17.6' RT	N. 21ST ST.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	649.50	642.62	5.88
	CB-64.3	103+43	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	649.60	642.41	6.19
	CB-64.4	103+62	11.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	649.40	642.07	6.33
	CB-64.5	103+60	0.5' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	649.54	642.68	5.86

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER CATCH BASINS & INLETS AND COVERS CONT.

ID	STRUCT.	STA.	OFFSET*	LOCATION	611.0624 INLET COVERS TYPE H EA	611.0630 INLET COVERS TYPE HM-GJ EA	611.0639 INLET COVERS TYPE H-S EA	611.0642 INLET COVERS TYPE MS EA	611.0652 INLET COVERS TYPE T EA	SPV.0060.01 INLET COVERS TYPE DW EA	SPV.0060.02 INLET COVERS TYPE BH EA	611.1004 CATCH BASINS 4-FT DIA. EA	611.1005 CATCH BASINS 5-FT DIA. EA	611.1006 CATCH BASINS 6-FT DIA. EA	611.1230 CATCH BASINS 2x3-FT EA	611.3003 INLETS 3-FT DIA. EA	611.3901 INLETS MEDIAN 1 GRATE EA	650.4000**** CONSTR. STAKING STORM SEWER EA	RIM ELEV.	INVERT** ELEV.	DEPTH*** FT
PROJECT 1500-37-71 CONT.																					
	CB-64.6	103+45	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	649.42	643.08	5.34
	CB-64.7	9+57	18.9' RT	N. 21ST ST.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	649.01	643.23	4.78
	CB-64.8	9+57	18.5' LT	N. 21ST ST.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	648.85	643.42	4.43
	MH-66.0	106+15	5.8' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	---	---	---	---	649.89	642.38	6.51
	CB-66.1	10+79	13.4' LT	SB PARK ROW BLVD.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	649.24	641.00	7.24
	CB-66.1A	10+79	13.4' RT	SB PARK ROW BLVD.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	649.85	642.80	6.06
	CB-66.2	106+11	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	649.61	640.81	7.80
	CB-66.3	106+15	3.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	649.70	640.45	8.25
	CB-66.4	106+13	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	649.91	641.70	7.22
	CB-68.1	10+52	13.6' RT	NB PARK ROW BLVD.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	649.05	642.52	5.53
	CB-68.1A	10+52	13.5' LT	NB PARK ROW BLVD.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	649.57	642.39	6.18
	CB-68.2	107+34	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	649.14	642.25	5.89
	CB-68.3	107+26	0.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	649.15	641.86	6.29
	CB-68.4	107+23	7.4' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	649.62	641.78	6.84
	CB-70.1	10+50	14.3' RT	ELM ST.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	647.03	640.46	5.57
	CB-70.2	10+50	14.3' LT	ELM ST.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	647.19	640.32	5.87
	CB-70.3	109+61	26' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	647.20	640.16	6.04
	CB-70.4	109+62	6.1' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	647.17	640.00	6.17
	CB-70.5	109+62	6.9' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	647.36	639.75	6.61
	CB-70.6	109+63	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	647.05	640.74	5.31
	CB-72.1	112+74	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	645.48	639.09	5.39
	CB-72.2	112+75	0.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	645.54	638.96	5.58
	CB-72.3	112+76	0.5' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	645.50	638.84	5.66
	CB-72.4	112+73	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	645.46	638.98	5.48
	CB-74.1	115+09	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	644.30	637.79	5.51
	CB-74.2	115+09	0.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	644.36	637.66	5.69
	CB-74.3	115+10	8.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	644.18	637.63	5.55
	CB-74.4	115+11	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	644.24	637.21	6.03
	CB-76.1	117+72	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	643.01	636.43	5.57
	CB-76.2	117+55	0.9' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	643.13	636.28	5.85
	CB-76.3	117+55	7.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	642.89	636.24	5.65
	CB-76.4	117+71	31.6' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	642.77	636.56	5.21
	CB-78.1	10+76	20.5' LT	N 18TH ST.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	642.70	636.24	5.47
	CB-78.2	10+76	20.5' RT	N 18TH ST.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	642.71	635.57	6.14
	CB-80.1	9+29	29.3' LT	N 18TH ST.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	642.66	636.08	5.58
	CB-80.2	9+27	30.3' RT	N 18TH ST.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	642.81	636.24	5.58
	CB-84.1	120+50	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	639.11	632.53	5.58
	CB-84.2	120+50	7.5' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	639.02	632.32	5.70
	CB-84.3	120+50	0.5' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	639.16	632.29	5.87
	CB-84.4	120+50	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	639.10	632.56	5.54
	CB-86.1	10+77	13.7' RT	N. 17TH ST.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	636.54	630.93	4.61

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER CATCH BASINS & INLETS AND COVERS CONT.

ID	STRUCT.	STA.	OFFSET*	LOCATION	611.0624 H EA	611.0630 HM-GJ EA	611.0639 H-S EA	611.0642 MS EA	611.0652 T EA	SPV.0060.01 DW EA	SPV.0060.02 BH EA	611.1004 CATCH BASINS 4-FT DIA. EA	611.1005 5-FT DIA. EA	611.1006 6-FT DIA. EA	611.1230 2x3-FT EA	611.3003 INLETS 3-FT DIA. EA	611.3901 INLETS MEDIAN 1 GRATE EA	650.4000**** CONSTR. STAKING STORM SEWER EA	RIM ELEV.	INVERT** ELEV.	DEPTH*** FT
PROJECT 1500-37-71 CONT.																					
	CB-86.2	10+77	13.7' LT	N. 17TH ST.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	636.53	630.79	4.74
	CB-86.3	121+60	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	637.15	630.57	5.58
	CB-86.4	121+61	7.5' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	637.04	630.11	5.93
	CB-86.5	121+61	0.5' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	637.35	630.08	6.27
	CB-86.6	121+61	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	637.29	630.70	5.58
	CB-86.7	9+49	14' LT	N. 17TH ST.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	636.55	630.91	4.64
	CB-86.8	9+49	14' RT	N. 17TH ST.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	636.36	631.05	4.31
	CB-90.1	123+25	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	635.34	628.76	5.58
	CB-90.2	123+25	0.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	635.40	628.63	5.77
	CB-90.3	123+25	0.5' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	635.48	628.52	5.96
	CB-90.4	123+25	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	635.41	628.84	5.58
	CB-92.1	10+77	14.2' RT	N. 16TH ST.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	633.22	626.64	5.58
	CB-92.2	10+77	14.1' LT	N. 16TH ST.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	633.25	626.50	5.76
	CB-92.3	125+10	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	633.48	626.30	6.18
	CB-92.4	125+15	5.4' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	633.51	625.90	6.61
	CB-92.5	125+15	5.5' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	633.51	625.83	6.68
	CB-92.6	125+11	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	633.49	626.12	6.37
	CB-92.7	9+49	13.8' LT	N. 16TH ST.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	633.16	626.31	5.85
	CB-92.8	9+49	13.8' RT	N. 16TH ST.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	633.01	626.45	5.57
	CB-96.1	10+77	13.8' RT	N. 15TH ST.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	632.06	626.64	4.42
	CB-96.2	10+77	13.8' LT	N. 15TH ST.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	632.05	626.50	4.55
	CB-96.3	127+75	25.5' LT	USH 10 WB	---	---	1	---	---	---	---	---	---	---	1	---	---	1	632.19	626.31	4.88
	CB-96.4	127+75	4.9' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	632.29	625.91	5.38
	CB-96.5	127+75	4.7' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	632.48	625.84	5.64
	CB-96.6	127+75	25.5' RT	USH 10 EB	---	---	1	---	---	---	---	---	---	---	1	---	---	1	632.56	626.22	5.35
	CB-96.7	9+49	13.8' LT	N. 15TH ST.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	633.02	626.40	5.62
	CB-96.8	9+49	13.8' RT	N. 15TH ST.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	632.81	626.54	5.27
	CB-100.1	10+77	17.9' RT	N. 14TH ST.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	629.11	622.54	5.58
	CB-100.2	10+77	17.9' LT	N. 14TH ST.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	629.34	622.36	5.98
	CB-100.3	130+50	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	630.09	622.15	6.94
	CB-100.4	130+56	5.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	630.29	621.74	7.55
	CB-100.5	130+55	5.3' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	630.26	621.68	7.58
	CB-100.6	130+59	25.7' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	630.30	622.31	6.99
	CB-100.7	9+47	14.3' LT	N. 14TH ST.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	629.38	622.49	5.89
	CB-100.8	9+47	14.3' RT	N. 14TH ST.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	629.21	622.63	5.58
	CB-102.1	133+42	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	627.03	620.45	5.58
	CB-102.2	133+42	0.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	627.09	620.32	5.76
	CB-102.3	133+43	11.5' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	626.97	620.26	5.71
	CB-102.4	133+43	27' RT	USH 10 EB	1	---	---	---	---	---	---	1	---	---	---	---	---	1	627.51	619.95	6.56
	CB-102.5	9+47	13.8' LT	N. 13TH ST.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	626.62	620.10	5.52
	CB-102.6	9+47	13.9' RT	N. 13TH ST.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	626.82	620.24	5.58

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER CATCH BASINS & INLETS AND COVERS CONT.

ID	STRUCT.	STA.	OFFSET*	LOCATION	611.0624 INLET COVERS TYPE H EA	611.0630 INLET COVERS TYPE HM-GJ EA	611.0639 INLET COVERS TYPE H-S EA	611.0642 INLET COVERS TYPE MS EA	611.0652 INLET COVERS TYPE T EA	SPV.0060.01 INLET COVERS TYPE DW EA	SPV.0060.02 INLET COVERS TYPE BH EA	611.1004 CATCH BASINS 4-FT DIA. EA	611.1005 CATCH BASINS 5-FT DIA. EA	611.1006 CATCH BASINS 6-FT DIA. EA	611.1230 CATCH BASINS 2x3-FT EA	611.3003 INLETS 3-FT DIA. EA	611.3901 INLETS MEDIAN 1 GRATE EA	650.4000**** CONSTR. STAKING STORM SEWER EA	RIM ELEV.	INVERT** ELEV.	DEPTH*** FT
PROJECT 1500-37-71 CONT.																					
	CB-104.1	134+09	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	626.14	619.55	5.59
	CB-104.2	134+09	0.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	626.31	619.42	5.89
	CB-104.3	134+08	11.5' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	626.30	619.36	5.94
	CB-105.1	10+90	23.5' LT	MENASHA AVE.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	624.51	617.94	5.58
	CB-105.2	10+80	23.5' LT	MENASHA AVE.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	624.47	617.89	5.58
	CB-105.3	10+90	23.5' RT	MENASHA AVE.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	624.49	617.81	5.69
	CB-105.4	10+80	23.5' RT	MENASHA AVE.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	624.47	617.86	5.61
	CB-106.1	135+40	50' LT	USH 10 WB	---	---	---	---	---	---	1	---	---	---	---	1	---	1	624.26	619.91	4.02
	CB-106.2	135+76	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	623.77	616.95	5.82
	CB-106.3	135+76	0.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	623.83	616.82	6.01
	CB-106.4	135+77	0.5' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	624.02	616.46	6.57
	CB-106.5	135+77	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	623.96	617.03	5.93
	CB-108.2	9+47	14.2' LT	N. 12TH STREET	---	---	1	---	---	---	---	1	---	---	---	---	---	1	622.68	615.02	6.66
	CB-108.3	9+47	14.3' RT	N. 12TH STREET	---	---	1	---	---	---	---	1	---	---	---	---	---	1	622.68	615.16	6.52
	CB-108.4	9+69	18.5' RT	S. MENASHA AVE.	1	---	---	---	---	---	---	1	---	---	---	---	---	1	623.08	615.48	6.60
	CB-108.5	9+31	18.5' RT	S. MENASHA AVE.	---	---	1	---	---	---	---	1	---	---	---	---	---	1	623.59	615.74	6.85
	CB-108.6	8+88	18.5' LT	S. MENASHA AVE.	1	---	---	---	---	---	---	1	---	---	---	---	---	1	623.94	615.94	7.00
	CB-108.7	8+18	14.2' LT	N. 12TH STREET	1	---	---	---	---	---	---	1	---	---	---	---	---	1	624.55	615.67	7.88
	CB-110.1	138+33	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	621.74	615.28	5.46
	CB-110.2	138+23	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	621.81	615.23	5.58
	CB-110.3	138+33	0.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	621.80	615.15	5.65
	CB-110.4	138+23	0.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	621.87	615.10	5.77
	CB-110.5	138+34	2.3' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	622.29	615.04	6.25
	CB-110.6	138+24	1.1' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	622.30	614.74	6.56
	CB-110.7	138+34	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	621.75	615.29	5.46
	CB-110.8	138+24	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	621.82	615.24	5.58
	CB-112.1	140+99	25.5' LT	USH 10 WB	---	---	1	---	---	---	---	---	---	---	1	---	---	1	620.02	613.38	5.64
	CB-112.2	140+89	25.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	620.03	613.42	5.61
	CB-112.3	140+93	0.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	620.05	613.30	5.75
	CB-112.4	141+03	0.5' RT	USH 10 WB	---	---	1	---	---	---	---	---	---	---	1	---	---	1	620.04	613.24	5.80
	CB-112.5	140+87	7.5' RT	USH 10 WB	1	---	---	---	---	---	---	1	---	---	---	---	---	1	619.98	612.85	6.13
	CB-112.6	141+09	6' RT	USH 10 WB	---	---	1	---	---	---	---	1	---	---	---	---	---	1	620.08	612.96	6.12
	CB-112.7	140+90	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	620.04	613.49	5.55
	CB-112.8	141+00	25.5' RT	USH 10 EB	---	---	1	---	---	---	---	---	---	---	1	---	---	1	620.03	613.44	5.59
	CB-114.1	10+80	20.7' RT	N. 11TH ST.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	619.68	613.08	5.60
	CB-114.2	10+90	20.7' RT	N. 11TH ST.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	619.66	612.97	5.68
	CB-114.4	10+90	20.6' LT	N. 11TH ST.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	619.77	613.02	5.75
	CB-114.5	10+80	20.6' LT	N. 11TH ST.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	619.76	613.07	5.69
	CB-114.6	9+47	18.3' RT	N. 11TH ST.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	620.18	613.60	5.58
	CB-114.8	9+47	18.7' LT	N. 11TH ST.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	620.16	613.59	5.58

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER CATCH BASINS & INLETS AND COVERS CONT.

ID	STRUCT.	STA.	OFFSET*	LOCATION	611.0624	611.0630	611.0639	611.0642	611.0652	SPV.0060.01	SPV.0060.02	611.1004	611.1005	611.1006	611.1230	611.3003	611.3901	650.4000****	RIM	INVERT**	DEPTH***
					INLET COVERS TYPE							CATCH BASINS				INLETS	INLETS	CONSTR.			
					H	HM-GJ	H-S	MS	T	DW	BH	4-FT	5-FT	6-FT		3-FT	MEDIAN	STAKING			
												DIA.	DIA.	DIA.	2x3-FT	DIA.	1	STORM			
					EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	GRATE	SEWER	ELEV.	ELEV.	FT
PROJECT 1500-37-71 CONT.																					
	CB-116.1	142+08	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	620.65	614.06	5.59
	CB-116.2	142+19	7.5' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	620.74	613.84	5.90
	CB-116.3	142+19	1.4' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	620.87	613.81	6.06
	CB-116.4	142+19	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	620.78	614.20	5.58
	CB-118.1	143+75	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	622.14	615.55	5.59
	CB-118.2	143+75	7.5' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	622.01	615.34	5.67
	CB-118.3	143+75	0.5' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	622.30	615.30	5.99
	CB-118.4	143+75	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	622.20	615.64	5.56
	CB-120.1	145+70	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	624.57	617.89	5.68
	CB-120.2	145+70	6.5' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	624.50	617.68	5.82
	CB-120.3	145+70	0.5' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	624.66	617.65	6.01
	CB-120.4	145+65	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	1	---	---	---	---	---	1	624.80	614.56	9.23
	CB-120.5	9+49	16.7' RT	N. 10TH ST.	---	---	1	---	---	---	---	1	---	---	---	---	---	1	623.83	614.75	8.08
	CB-120.6	9+47	16.5' LT	N. 10TH ST.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	624.03	614.92	8.12
	CB-122.3	12+67	13.8' RT	N. 9TH ST.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	626.58	619.84	5.74
	CB-122.4	12+67	13.9' LT	N. 9TH ST.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	626.48	619.87	5.61
	CB-122.5	9+47	14.6' LT	N. 9TH ST.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	629.83	623.10	5.73
	CB-122.6	9+47	14.6' RT	N. 9TH ST.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	629.82	624.24	4.58
	CB-126.1	12+61	20.5' LT	N. 8TH ST.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	618.26	610.76	6.50
	CB-126.5	150+79	25.5' LT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	624.53	616.68	6.85
	CB-126.6	150+79	0.5' RT	USH 10 WB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	624.55	617.06	6.49
	CB-126.7	150+83	11.5' LT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	624.74	617.12	6.61
	CB-126.8	150+83	25.5' RT	USH 10 EB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	624.99	617.31	6.68
	CB-126.9	9+58	13.5' LT	N 8TH ST	---	---	1	---	---	---	---	---	---	---	1	---	---	1	623.61	617.26	5.35
	CB-126.10	9+39	23.6' RT	N 8TH ST	1	---	---	---	---	---	---	---	---	---	1	---	---	1	624.05	617.47	5.58
		PROJECT TOTALS			165	0	54	0	0	0	2	14	1	0	203	2	0	220			
PROJECT 4570-12-71																					
	CB-128.1	153+69	25.5' LT	STH 42 SB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	614.40	607.82	5.58
	CB-128.2	153+69	0.5' RT	STH 42 SB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	614.46	607.69	5.77
	CB-128.3	153+70	0.5' LT	STH 42 NB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	615.20	607.58	6.62
	CB-128.4	153+70	25.5' RT	STH 42 NB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	615.14	608.56	5.58
	CB-130.1	10+66	12.1' RT	W. LINCOLN BLVD.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	607.25	600.64	5.60
	CB-130.2	10+77	12' LT	W. LINCOLN BLVD.	---	---	1	---	---	---	---	1	---	---	---	---	---	1	607.25	600.51	5.74
	CB-130.3	155+21	25.5' LT	STH 42 SB	1	---	---	---	---	---	---	1	---	---	---	---	---	1	608.27	600.31	6.96
	CB-130.4	155+00	0.5' RT	STH 42 SB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	608.94	600.14	7.80

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER CATCH BASINS & INLETS AND COVERS CONT.

ID	STRUCT.	STA.	OFFSET*	LOCATION	611.0624 INLET COVERS TYPE H EA	611.0630 INLET COVERS TYPE HM-GJ EA	611.0639 INLET COVERS TYPE H-S EA	611.0642 INLET COVERS TYPE MS EA	611.0652 INLET COVERS TYPE T EA	SPV.0060.01 INLET COVERS TYPE DW EA	SPV.0060.02 INLET COVERS TYPE BH EA	611.1004 CATCH BASINS 4-FT DIA. EA	611.1005 CATCH BASINS 5-FT DIA. EA	611.1006 CATCH BASINS 6-FT DIA. EA	611.1230 CATCH BASINS 2x3-FT EA	611.3003 INLETS 3-FT DIA. EA	611.3901 INLETS MEDIAN 1 GRATE EA	650.4000**** CONSTR. STAKING STORM SEWER EA	RIM ELEV.	INVERT** ELEV.	DEPTH*** FT
PROJECT 4570-12-71 CONT.																					
	CB-130.5	155+00	0.5' LT	STH 42 NB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	609.43	600.02	8.41
	CB-130.6	155+00	25.5' RT	STH 42 NB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	609.37	601.87	6.49
	CB-132.4	10+77	12.1' RT	E. LINCOLN BLVD.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	607.03	600.54	5.49
	CB-132.5	10+65	12' LT	E. LINCOLN BLVD.	---	---	1	---	---	---	---	---	---	1	---	---	---	1	606.62	592.03	13.59
	CB-132.6	9+59	12' LT	E. LINCOLN BLVD.	---	---	1	---	---	---	---	1	---	---	---	---	---	1	607.04	598.35	7.69
	CB-132.7	9+47	12' RT	E. LINCOLN BLVD.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	607.41	598.73	7.68
	CB-132.8	9+58	12' RT	W. LINCOLN BLVD.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	608.00	600.32	6.68
	CB-132.9	9+47	12' LT	W. LINCOLN BLVD.	---	---	1	---	---	---	---	---	---	---	1	---	---	1	607.88	600.46	6.42
	CB-134.1	10+76	14.5' RT	N. 6TH ST.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	601.89	595.31	5.58
	CB-134.3	10+66	16.1' LT	N. 6TH ST.	---	---	1	---	---	---	---	1	---	---	---	---	---	1	602.03	594.25	6.78
	CB-134.4	159+43	25.5' LT	STH 42 SB	1	---	---	---	---	---	---	1	---	---	---	---	---	1	602.06	593.87	7.19
	CB-134.5	159+19	0.5' RT	STH 42 SB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	602.43	593.37	8.06
	CB-134.6	159+20	0.5' LT	STH 42 NB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	601.95	593.02	7.92
	CB-134.7	159+24	25.5' RT	STH 42 NB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	601.82	595.30	5.51
	CB-134.8	9+49	14.5' LT	N. 6TH ST.	---	---	---	---	---	1	---	---	---	---	1	---	---	1	601.36	594.37	5.99
	CB-134.9	9+46	14.5' RT	N. 6TH ST.	1	---	---	---	---	---	---	---	---	---	1	---	---	1	601.18	594.60	5.58
	CB-136.3	163+07	25.5' LT	STH 42 SB	1	---	---	---	---	---	---	1	---	---	---	---	---	1	598.96	590.50	7.46
	CB-136.4	162+90	0.5' RT	STH 42 SB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	599.16	590.19	7.97
	CB-136.5	162+90	0.5' LT	STH 42 NB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	598.88	589.96	7.92
	CB-136.6	162+90	25.5' RT	STH 42 NB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	598.82	592.24	5.58
	CB-138.1	166+00	25.5' LT	STH 42 SB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	596.55	590.00	5.54
	CB-138.2	166+00	0.5' RT	STH 42 SB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	596.61	589.87	5.73
	CB-138.3	166+00	0.5' LT	STH 42 NB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	596.57	589.76	5.81
	CB-138.4	166+00	25.5' RT	STH 42 NB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	596.51	589.93	5.58
	CB-140.1	169+02	25.5' LT	STH 42 SB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	593.93	587.35	5.58
	CB-140.2	169+00	0.5' RT	STH 42 SB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	594.00	587.22	5.78
	CB-140.3	169+00	0.5' LT	STH 42 NB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	593.99	587.11	5.89
	CB-140.4	169+00	25.5' RT	STH 42 NB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	593.93	587.35	5.58
	MH-142.0	172+00	27.9' RT	STH 42 NB	1	---	---	---	---	---	---	---	---	---	---	---	---	---	591.35	582.24	8.98
	CB-142.1	172+00	25.5' LT	STH 42 SB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	591.22	584.64	5.58
	CB-142.2	172+00	0.5' RT	STH 42 SB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	591.28	584.51	5.76
	CB-142.3	172+00	0.5' LT	STH 42 NB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	591.41	584.40	6.02
	CB-150.0	175+00	25.5' RT	STH 42 NB	1	---	---	---	---	---	---	---	1	---	---	---	---	1	588.65	578.61	9.05
	CB-150.1	174+99	25.5' RT	STH 42 SB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	588.25	581.67	5.58
	CB-150.2	175+00	0.5' RT	STH 42 SB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	588.30	581.54	5.76
	CB-150.3	175+00	0.5' LT	STH 42 NB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	588.71	581.42	6.29
	CB-152.0	177+85	25.5' RT	STH 42 NB	1	---	---	---	---	---	---	1	---	---	---	---	---	1	586.44	579.09	6.35
	CB-152.1	177+97	25.5' LT	STH 42 SB	---	---	1	---	---	---	---	---	---	---	1	---	---	1	586.55	580.13	5.42
	CB-152.2	177+87	25.5' LT	STH 42 SB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	586.55	580.17	5.38
	CB-152.3	177+97	0.5' RT	STH 42 SB	---	---	1	---	---	---	---	---	---	---	1	---	---	1	586.61	580.01	5.60

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

STORM SEWER CATCH BASINS & INLETS AND COVERS CONT.

ID	STRUCT.	STA.	OFFSET*	LOCATION	611.0624 INLET COVERS TYPE H EA	611.0630 HM-GJ EA	611.0639 H-S EA	611.0642 MS EA	611.0652 T EA	SPV.0060.01 DW EA	SPV.0060.02 BH EA	611.1004 CATCH BASINS 4-FT DIA. EA	611.1005 5-FT DIA. EA	611.1006 6-FT DIA. EA	611.1230 2x3-FT EA	611.3003 INLETS 3-FT DIA. EA	611.3901 INLETS MEDIAN 1 GRATE EA	650.4000**** CONSTR. STAKING STORM SEWER EA	RIM ELEV.	INVERT** ELEV.	DEPTH*** FT
PROJECT 4570-12-71 CONT.																					
	CB-152.4	177+87	0.5' RT	STH 42 SB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	586.61	580.06	5.55
	CB-152.5	177+95	0.5' LT	STH 42 NB	---	---	1	---	---	---	---	---	---	---	1	---	---	1	586.49	579.66	5.83
	CB-152.6	177+85	0.5' LT	STH 42 NB	1	---		---	---	---	---	---	---	---	1	---	---	1	586.50	579.95	5.55
	CB-152.7	177+95	25.5' RT	STH 42 NB	---	---	1	---	---	---	---	---	---	---	1	---	---	1	586.43	579.55	5.88
	CB-160.1	179+59	25.5' LT	STH 42 SB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	587.04	580.46	5.58
	CB-160.2	179+59	0.5' RT	STH 42 SB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	587.10	580.33	5.77
	CB-160.3	179+60	0.5' LT	STH 42 NB	1	---	---	---	---	---	---	1	---	---	---	---	---	1	587.12	580.21	5.91
	CB-160.4	179+60	25.5' RT	STH 42 NB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	587.06	580.48	5.58
	CB-162.1	182+28	25.5' LT	STH 42 SB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	588.27	581.69	5.58
	CB-162.2	182+28	0.5' RT	STH 42 SB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	588.33	581.62	5.71
	CB-162.3	182+28	0.5' LT	STH 42 NB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	588.37	581.55	5.83
	CB-162.4	182+28	25.5' RT	STH 42 NB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	588.31	581.73	5.58
	CB-164.2	184+89	25.5' LT	STH 42 SB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	589.38	582.80	5.58
	CB-164.3	184+89	0.5' RT	STH 42 SB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	589.44	582.67	5.77
	CB-164.4	184+89	0.6' LT	STH 42 NB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	589.62	582.56	6.06
	CB-164.5	184+87	25.5' RT	STH 42 NB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	589.55	582.97	5.58
	CB-166.1	186+57	25.5'LT	STH 42 SB	---	---	1	---	---	---	---	---	---	---	1	---	---	1	590.10	583.53	5.57
	CB-166.2	186+56	0.5' RT	STH 42 SB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	590.16	583.40	5.76
	CB-166.3	186+57	0.5' LT	STH 42 NB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	590.44	583.30	6.14
	CB-166.4	186+54	25.5' RT	STH 42 NB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	590.35	583.77	5.58
	CB-170.1	190+49	33.3' LT	STH 42 SB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	589.97	583.39	5.58
	CB-170.2	2+54	19.5' RT	RCC	---	---	1	---	---	---	---	1	---	---	---	---	---	1	590.64	582.67	6.97
	CB-170.3	2+68	1.7' LT	RCC	---	---	---	---	1	---	---	1	---	---	---	---	---	1	590.44	583.30	6.14
	CB-170.4	2+78	1.7' LT	RCC	---	---	---	---	1	---	---	1	---	---	---	---	---	1	590.43	583.36	6.07
	CB-172.1	1+51	29' RT	RCC	1	---	---	---	---	---	---	---	---	---	1	---	---	1	591.28	582.53	7.75
	CB-172.2	14+03	1.5' RT	NMW	1	---	---	---	---	---	---	1	---	---	---	---	---	1	590.77	582.21	7.57
	CB-174.1	15+07	1.5' RT	SMO	1	---	---	---	---	---	---	---	---	---	1	---	---	1	590.84	583.89	5.95
	CB-174.2	15+17	1.5' RT	SMO	---	---	1	---	---	---	---	---	---	---	1	---	---	1	590.82	583.84	5.98
	CB-174.3	12+79	1.5' RT	SMI	1	---	---	---	---	---	---	---	---	---	1	---	---	1	591.19	583.78	6.41
	CB-174.4	12+69	1.5' RT	SMI	---	---	1	---	---	---	---	---	---	---	1	---	---	1	591.18	583.74	6.44
	CB-174.5	12+99	1.5' LT	NMI	1	---	---	---	---	---	---	---	---	---	1	---	---	1	590.86	583.59	6.27
	CB-174.6	12+88	1.5' LT	NMI	---	---	1	---	---	---	---	---	---	---	1	---	---	1	590.85	583.29	6.56
	CB-174.7	13+14	1.5' RT	NMW	1	---	---	---	---	---	---	---	---	---	1	---	---	1	590.48	583.48	6.01
	CB-174.8	13+04	1.5' RT	NMW	---	---	1	---	---	---	---	---	---	---	1	---	---	1	590.46	583.18	6.28
	CB-174.9	13+29	1.5' LT	NME	1	---	---	---	---	---	---	---	---	---	1	---	---	1	590.12	583.54	5.58
	CB-174.10	13+19	1.5' LT	NME	---	---	1	---	---	---	---	---	---	---	1	---	---	1	590.11	579.23	9.87
	CB-174.11	13+41	1.5' RT	NMO	1	---	---	---	---	---	---	---	---	---	1	---	---	1	589.72	583.14	5.58

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

STORM SEWER CATCH BASINS & INLETS AND COVERS CONT.

ID	STRUCT.	STA.	OFFSET*	LOCATION	611.0624 H EA	611.0630 HM-GJ EA	611.0639 H-S EA	611.0642 MS EA	611.0652 T EA	SPV.0060.01 DW EA	SPV.0060.02 BH EA	611.1004 CATCH BASINS 4-FT DIA. EA	611.1005 5-FT DIA. EA	611.1006 6-FT DIA. EA	611.1230 2x3-FT EA	611.3003 INLETS 3-FT DIA. EA	611.3901 INLETS MEDIAN 1 GRATE EA	650.4000**** CONSTR. STAKING STORM SEWER EA	RIM ELEV.	INVERT** ELEV.	DEPTH*** FT
PROJECT 4570-12-71 CONT.																					
	CB-174.12	13+31	1.5' RT	NMO	---	---	1	---	---	---	---	---	---	---	1	---	---	1	589.71	579.00	9.71
	IN-180.1	193+15	56.6' LT	STH 42 SB	---	---	---	1	---	---	---	---	---	---	---	---	1	1	586.06	583.45	2.82
	CB-180.2	191+85	29.5' LT	STH 42 SB	1	---	---	---	---	---	---	1	---	---	---	---	---	1	588.55	580.82	6.73
	CB-180.3	191+85	0.5' RT	STH 42 SB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	589.17	580.67	7.49
	CB-180.4	192+30	0.5' LT	STH 42 NB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	588.03	580.02	7.00
	CB-180.5	192+34	29.5' RT	STH 42 NB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	588.50	579.93	7.56
	CB-182.1	193+90	34.5' LT	STH 42 SB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	586.62	581.16	4.46
	CB-182.2	194+00	34.5' LT	STH 42 SB	---	---	1	---	---	---	---	---	---	---	1	---	---	1	586.60	581.12	4.48
	CB-182.3	194+08	0.8' RT	STH 42 SB	---	---	1	---	---	---	---	---	---	---	1	---	---	1	587.32	581.02	5.30
	CB-182.4	193+98	0.5' RT	STH 42 SB	---	---	1	---	---	---	---	1	---	---		---	---	1	587.33	580.98	5.35
	CB-182.5	194+40	0.5' LT	STH 42 NB	---	---	1	---	---	---	---	---	---	---	1	---	---	1	587.14	581.05	5.09
	CB-182.6	194+30	0.5' LT	STH 42 NB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	587.14	581.09	5.05
	CB-182.7	194+50	31.5' RT	STH 42 NB	---	---	1	---	---	---	---	---	---	---	1	---	---	1	586.48	581.18	4.30
	CB-182.8	194+40	30.6' RT	STH 42 NB	1	---	---	---	---	---	---	---	---	---	1	---	---	1	586.49	581.22	4.27
	CB-184.0	195+17	11.7' RT	STH 42 SB	---	1	---	---	---	---	---	---	---	---	1	---	---	1	587.59	581.57	5.02
	PROJECT TOTALS				73	1	22	1	2	1	0	14	1	1	82	0	1	99			
	TOTALS				238	1	76	2	2	1	2	28	2	1	285	2	2	320			

NOTES
* STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE
** FOR STRUCTURES WITH SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE SUMP. FOR STRUCTURES WITHOUT SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE
*** DEPTH = RIM ELEV - TOP OF STRUCTURE BASE ELEV - COVER HEIGHT - 6 -INCH ADJUSTMENT RING HEIGHT
**** ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

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ADJUSTING INLET COVERS

ID	STATION	LOCATION	611.8115* EA
PROJECT 4570-12-71			
	10+52, 17' LT	N. 5TH ST	1
	10+53, 17' RT	N. 5TH ST	1
		TOTALS	2

*-ADDITIONAL QUANTITIES SHOWN ELSEWHERE

COVER PLATES TEMPORARY

ID	PROJECT STAGE	LOCATION	611.8120.S EA	REMARKS
PROJECT 4570-12-71				
	1A	SS STRUCTURE 174.0	1	ROUNDABOUT STAGE 1
	1A	SS STRUCTURE 174.9	1	ROUNDABOUT STAGE 1
	1A	SS STRUCTURE 174.1	1	ROUNDABOUT STAGE 1
	1A	SS STRUCTURE 180.5	1	ROUNDABOUT STAGE 1
	1A	SS STRUCTURE 172.1	1	ROUNDABOUT STAGE 2
	1A	SS STRUCTURE 174.3	1	ROUNDABOUT STAGE 2
	1A	SS STRUCTURE 174.4	1	ROUNDABOUT STAGE 2
	1A	SS STRUCTURE 180.3	1	ROUNDABOUT STAGE 2
		TOTAL	8	

PIPE UNDERDRAIN

ID	LOCATION	310.0115 BASE AGGREGATE OPEN-GRADED CY	612.0106 PIPE UNDERDRAIN 6-INCH LF	645.0111 GEOTEXTILE TYPE DF SCHEDULE A SY
PROJECT 1500-37-71				
	STRUCTURE SERIES 20	8	200	115
	STRUCTURE SERIES 48	7	180	100
	STRUCTURE SERIES 56/58	8	200	115
	STRUCTURE SERIES 112	8	200	115
	PROJECT TOTAL	31	780	445
PROJECT4570-12-71				
	STA. 166+05 - STA. 172+70, EB RT	49	685	455
	STRUCTURE SERIES 152	8	200	115
	STRUCTURE SERIES 174	12	300	170
	STRUCTURE SERIES 170 (RBT CIRCLE)	2	50	30
	STRUCTURE SERIES 182	8	200	115
	PROJECT TOTALS	79	1435	885
	TOTAL	110	2215	1330

ADJUSTING MISCELLANEOUS ITEMS

ID	STATION	LOCATION	SPV.0060.04 INLET ADJUSTMENT CASTINGS EA	SPV.0060.05 MANHOLE ADJUSTMENT CASTINGS EA	SPV.0060.06 WATER VALVE ADJUSTMENT CASTINGS EA
1500-47-71					
	38+51	USH 10, WB, LT	---	1	---
	38+80	USH 10, EB, LT	---	1	---
	43+52	USH 10, EB, RT	2	---	---
	43+54	USH 10, WB, LT	1	---	---
	43+98	USH 10, EB, RT	1	---	---
	46+50	USH 10, EB, RT	1	---	---
	46+52	USH 10, EB, RT	1	---	---
	46+52	USH 10, WB, LT	2	---	---
	49+30	USH 10, WB, LT	1	---	---
	47+34	USH 10, EB, LT	---	1	1
	47+51	USH 10, EB, LT	---	1	1
	49+31	USH 10, EB, LT	1	---	---
	49+35	USH 10, EB, RT	1	---	---
	49+39	USH 10, EB, LT	---	1	1
	49+49	USH 10, WB, LT	1	---	---
	51+27	USH 10, EB, RT	2	---	---
	51+28	USH 10, WB, LT	2	---	---
	53+19	USH 10, EB, RT	1	---	---
	53+21	USH 10, WB, LT	1	---	---
	53+51	USH 10, EB, RT	1	---	---
	54+10	USH 10, EB, LT	---	1	1
	54+72	USH 10, WB, LT	1	---	---
	54+79	USH 10, WB, LT	1	---	---
	54+79	USH 10, EB, RT	2	---	---
	57+31	USH 10, EB, RT	1	---	---
	57+32	USH 10, WB, LT	2	---	---
	57+33	USH 10, EB, RT	1	---	---
	59+81	USH 10, WB, LT	---	---	1
	62+82	USH 10, EB, RT	2	---	---
	62+83	USH 10, WB, LT	2	---	---
	63+72	USH 10, EB, LT	---	---	1
	65+32	USH 10, EB, RT	2	---	---
	65+32	USH 10, WB, LT	2	---	---
	67+58	USH 10, EB, RT	2	---	---
	67+58	USH 10, WB, LT	2	---	---
	9+69	40TH ST	---	1	1
	9+68	GLENVIEW DR	---	1	1
	9+69	W CRESCENT DR	---	1	1
	9+68	E CRESCENT DR	---	1	1
		TOTALS	39	10	10

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

MINI STORM SEWER

ID	LOCATION	612.0902.S INSULATION BOARD POLYSTYRENE 2-INCH SY	SPV.0060.10 CLEANOUT EA	SPV.0090.05 6-INCH LF	SPV.0090.06 8-INCH LF
PROJECT 1500-37-71					
	94+08 - 94+85	38	1	85	---
	94+04 - 95+10	49	1	110	---
	95+60	5	---	10	---
	95+60	5	---	10	---
	96+15 - 98+60	111	1	250	---
	98+60 - 98+78	11	---	25	---
	96+65 - 98+60	89	1	200	---
	98+60	5	---	10	---
	99+76 - 101+80	100	1	225	---
	21ST ST.	18	---	40	---
	103+44 - 104+56	60	1	135	---
	105+35 - 106+13	36	1	80	---
	PARK ROW BLVD.	7	---	15	---
	107+25	12	---	25	---
	PARK ROW BLVD.	7	---	15	---
	108+44 110+17	87	1	195	---
	ELM ST.	7	---	15	---
	111+00 - 112+73	78	1	175	---
	113+40 - 115+11	78	1	175	---
	115+70 - 117+70	89	1	200	---
	18TH ST.	40	---	90	---
	119+51 - 120+51	45	1	100	---
	119+77 - 120+50	34	1	75	---
	120+86 - 121+60	34	1	75	---
	120+90 - 121+61	34	1	75	---
	17TH ST.	7	---	15	---
	122+87 - 125+10	112	1	250	---
	123+61 - 125+11	76	1	170	---
	16TH ST.	16	---	20	15
	126+42 - 127+75	65	1	145	---
	126+53 - 127+75	68	1	150	---
	15TH ST.	12	---	25	---
	14TH ST.	7	---	15	---
	131+70 - 133+43	89	1	200	---
	134+45 - 135+77	60	1	135	---
	137+20 - 138+24	47	1	105	---
	137+30 - 138+33	49	1	110	---
	139+00 - 140+90	87	1	195	---
	139+00 - 140+89	87	1	195	---
	141+98 - 143+00	47	1	105	---
	143+75	7	---	15	---
	10TH ST.	23	---	35	15

MINI STORM SEWER CONT.

ID	LOCATION	612.0902.S INSULATION BOARD POLYSTYRENE 2-INCH SY	SPV.0060.10 CLEANOUT EA	SPV.0090.05 6-INCH LF	SPV.0090.06 8-INCH LF
PROJECT 1500-37-71 CONT.					
	149+20 - 150+79	72	1	160	---
	8TH ST.	7	---	15	---
	PROJECT TOTALS	2017	27	4470	30
PROJECT 4570-12-71					
	152+25 - 153+69	65	1	145	---
	LINCOLN BLVD.	43	---	95	---
	157+75 - 159+25	67	1	150	---
	158+00 - 159+44	65	1	145	---
	6TH ST.	18	---	40	---
	161+50 - 162+90	63	1	140	---
	161+60 - 163+08	67	1	150	---
	164+75 - 166+00	58	1	130	---
	165+05 - 166+00	54		120	---
	167+00 - 169+02	92	---	205	---
	167+50 - 169+00	76	---	170	---
	171+55 - 172+00	25	---	55	---
	PROJECT TOTALS	693	6	1545	0
	TOTALS	2710	33	6015	30

CONCRETE CAP OVER SANITARY SEWER

ID	STATION	OFFSET	LOCATION	SPV.0060.11 EA
PROJECT 4570-12-71				
	159+85	11' RT	EB	1
			TOTAL	1

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

SALVAGING RAIL AND GUARDRAIL END TREATMENTS

ID	STATION	TO	STATION	LOCATION	614.0920 RAIL LF	614.0925 END TREATMENT EACH
PROJECT 1500-37-71						
	75+93	-	81+89	USH 10, EB	596	1
	75+98	-	81+90	USH 10, WB	594	1
	84+84	-	90+08	USH 10, WB	525	1
	84+84	-	90+39	USH 10, EB	555	-
	90+50	-	92+22	USH 10, EB	175	1
	9+37	-	9+60	N. 11TH ST, LT	25	-
	PROJECT TOTAL				2,470	4
PROJECT 4570-12-71						
	191+79	-	194+82	STH 42, RT	305	2
	PROJECT TOTAL				305	2
	TOTAL				2,775	6

CONCRETE STEPS

ID	STATION	LOCATION	602.1500 SF
PROJECT 1500-37-71			
	148+97	STH 10 / STH 42, RT	15
	151+95	STH 10 / STH 42, RT	15
	TOTAL		30

CONCRETE CORRUGATED MEDIAN

ID	STATION	TO	STATION	LOCATION	620.0100 SF
PROJECT 1500-37-71					
	115+15	-	117+75	USH 10, EB	1,295
	118+68	-	120+82	USH 10, WB	1,065
	139+49	-	141+23	USH 10, EB	865
	141+89	-	143+94	USH 10, WB	1,020
	145+61	-	146+41	USH 10, WB	395
	TOTAL				4,640

DUST CONTROL & WATER

ID	LOCATION	623.0200 DUST CONTROL SURFACE TREATMENT SY	624.0100 * WATER MGAL
1500-37-71			
	UNDISTRIBUTED	75,000	200
	PROJECT TOTAL	75,000	200
4570-12-71			
	UNDISTRIBUTED	40,000	100
	PROJECT TOTAL	40,000	100
	TOTAL	115,000	300

* QUANTITIES SHOWN ELSEWHERE

RIPRAP & GEOTEXTILE FABRIC

ID	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	606.0300 RIPRAP HEAVY CY	645.0120 GEOTEXTILE FABRIC TYPE HR SY
PROJECT 1500-37-71					
	91+57	STH 10 / STH 42, RT	10	-	20
	PROJECT TOTALS		10	0	20
PROJECT 4570-12-71					
	174+80	STH 42, RT	-	560	650
	179+62	STH 42, RT	2.5	-	5
	192+40	STH 42, EB	2.5	-	5
	PROJECT TOTALS		5	560	660
	TOTALS		15	560	680

STEEL PLATE BEAMGUARD & MGS GUARDRAIL

ID	STATION	TO	STATION	LOCATION	614.2300 MGS GUARDRAIL 3 LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	614.2620 MGS GUARDRAIL TERMINAL TYPE 2 EACH	REMARKS
PROJECT 1500-37-71									
	75+37.2	-	75+90.2	USH 10 / STH 42, EB, RT	-	-	1	-	MGS EAT
	75+90.2	-	81+52.9	USH 10 / STH 42, EB, RT	562.7	-	-	-	MGS GUARDRAIL
	81+52.9	-	81+92.4	USH 10 / STH 42, EB, RT	-	39.5	-	-	MGS THRIE BEAM TRANSITION
	75+85.4	-	75+90.2	USH 10 / STH 42, WB, LT	4.8	-	-	1	MGS TYPE 2 TERMINAL
	75+90.2	-	81+83.9	USH 10 / STH 42, WB, LT	593.7	-	-	-	MGS GUARDRAIL
	81+83.9	-	81+92.1	USH 10 / STH 42, WB, LT	-	8.2	-	-	MGS W-BEAM TRANSITION
	84+75.0	-	84+83.2	USH 10 / STH 42, EB, RT	-	8.2			MGS W-BEAM TRANSITION
	84+83.2	-	90+35.2	USH 10 / STH 42, EB, RT	556.8	-	-	-	MGS GUARDRAIL
	90+35.2	-	90+40.0	USH 10 / STH 42, EB, RT	4.8	-	-	1	MGS TYPE 2 TERMINAL
	84+74.0	-	85+13.5	USH 10 / STH 42, WB, LT	-	39.5		-	MGS THRIE BEAM TRANSITION
	85+13.5	-	89+63.7	USH 10 / STH 42, WB, LT	450.2	-	-	-	MGS GUARDRAIL
	89+63.7	-	90+16.7	USH 10 / STH 42, WB, LT	-	-	1	-	MGS EAT
	TOTALS				2,173	95	2	2	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

CONCRETE MEDIAN NOSES

ID	STATION	LOCATION	620.0300 CONCRETE MEDIAN SLOPED NOSE SF	416.0610 * DRILLED TIE BARS EACH	COMMENTS
PROJECT 1500-47-71					
	46+95	USH 10, EB	80	5	TYPE 1
	47+60	USH 10, EB	74	5	TYPE 1
	50+43	USH 10, EB	82	5	TYPE 1
	53+60	USH 10, EB	76	5	TYPE 1
	54+40	USH 10, EB	85	5	TYPE 1
	57+80	USH 10, EB	77	5	TYPE 1
	63+10	USH 10, EB	75	5	TYPE 1
	63+90	USH 10, EB	76	5	TYPE 1
	10+76	CTH R	40	5	TYPE 1
	PROJECT TOTALS		665	45	
PROJECT 1500-37-71					
	71+90	USH 10, EB	34	-	TYPE 1
	72+90	USH 10, EB	40	-	TYPE 1
	93+05	USH 10, EB	27	-	TYPE 1
	93+90	USH 10, EB	36	-	TYPE 1
	99+05	USH 10, EB	40	-	TYPE 1
	99+70	USH 10, EB	40	-	TYPE 1
	102+60	USH 10, EB	36	-	TYPE 1
	103+40	USH 10, EB	34	-	TYPE 1
	106+25	USH 10, EB	40	-	TYPE 1
	106+85	USH 10, EB	40	-	TYPE 1
	107+35	USH 10, EB	43	-	TYPE 1
	107+85	USH 10, EB	41	-	TYPE 1
	109+65	USH 10, EB	40	-	TYPE 1
	110+25	USH 10, EB	40	-	TYPE 1
	117+66	USH 10, EB	13	-	TYPE 1
	118+80	USH 10, EB	13	-	TYPE 1
	121+70	USH 10, EB	25	-	TYPE 1
	122+35	USH 10, EB	31	-	TYPE 1
	125+20	USH 10, EB	40	-	TYPE 1
	125+80	USH 10, EB	40	-	TYPE 1
	127+80	USH 10, EB	45	-	TYPE 1
	128+45	USH 10, EB	45	-	TYPE 1
	130+60	USH 10, EB	41	-	TYPE 1
	131+30	USH 10, EB	41	-	TYPE 1
	134+30	USH 10, EB	52	-	TYPE 1
	135+05	USH 10, EB	39	-	TYPE 1
	141+10	USH 10, EB	12	-	TYPE 1
	142+13	USH 10, EB	13	-	TYPE 1
	144+90	USH 10, EB	25	-	TYPE 1
	145+65	USH 10, EB	13	-	TYPE 1

CONCRETE MEDIAN NOSES (CONTINUED)

ID	STATION	LOCATION	620.0300 CONCRETE MEDIAN SLOPED NOSE SF	416.0610 * DRILLED TIE BARS EACH	COMMENTS
PROJECT 1500-37-71					
	147+90	USH 10, EB	36	-	TYPE 1
	148+75	USH 10, EB	36	-	TYPE 1
	151+05	USH 10, EB	44	-	TYPE 1
	151+85	USH 10, EB	45	-	TYPE 1
	PROJECT TOTALS		1,180	0	
PROJECT 4570-12-71					
	155+35	STH 42, EB	40	-	TYPE 1
	156+50	STH 42, EB	40	-	TYPE 1
	159+55	STH 42, EB	40	-	TYPE 1
	160+15	STH 42, EB	41	-	TYPE 1
	163+25	STH 42, EB	40	-	TYPE 1
	163+85	STH 42, EB	41	-	TYPE 1
	184+00	STH 42, EB	38	-	TYPE 1
	184+60	STH 42, EB	41	-	TYPE 1
	188+90	STH 42, EB	24	-	TYPE 2
	188+95	STH 42, WB	56	-	TYPE 2
	190+45	STH 42, WB	20	-	TYPE 2
	190+50	STH 42, EB	60	-	TYPE 2
	194+80	STH 42, EB	47	-	TYPE 1
	195+55	STH 42, EB	44	-	TYPE 1
	11+05	NB MARITIME DR (NMI), LT	52	-	TYPE 1
	12+50	NB MARITIME DR (NMI), RT	62	-	TYPE 1
	13+55	NB MARITIME DR (NMI), LT	25	-	TYPE 2
	13+30	SB MARITIME DR (SMI), RT	38	-	TYPE 2
	14+05	NB MARITIME DR (NME), LT	66	-	TYPE 2
	PROJECT TOTALS		815	0	
	TOTALS		2,660	45	

* QUANTITIES SHOWN ELSEWHERE

FENCE SAFETY

ID	LOCATION	616.0700.S QUANTITY LF
1500-37-71		
	UNDISTRIBUTED	500
	PROJECT TOTAL	500
4570-12-71		
	UNDISTRIBUTED	500
	PROJECT TOTAL	500
	TOTAL	1,000

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

SILT FENCE

ID	STATION	TO	STATION	LOCATION	628.1504 QUANTITY LF	628.1520 MAINTENANCE LF
PROJECT 1500-37-71						
	69+21	-	70+15	USH 10 / STH 42, RT	135	810
	69+70	-	70+45	USH 10 / STH 42, LT	115	690
	70+60	-	71+25	USH 10 / STH 42, RT	120	720
	72+25	-	82+12	USH 10 / STH 42, RT	1,025	6,150
	73+05	-	82+12	USH 10 / STH 42, LT	940	5,640
	84+55	-	93+15	USH 10 / STH 42, RT	975	5,850
	84+55	-	93+00	USH 10 / STH 42, LT	947	5,682
	99+33	-	99+70	USH 10 / STH 42, RT	59	354
	10+37	-	12+10	N. MENASHA AVE, RT	258	1,548
	8+85	-	9+90	S. MENASHA AVE, RT	107	642
	149+90	-	150+80	USH 10 / STH 42, LT	77	462
	10+20	-	11+45	EMERGENCY RR CROSSING	150	300
	WASTE SITE				1,500	9,000
	UNDISTRIBUTED				1242	7,452
	PROJECT TOTALS				7,650	45,300
PROJECT 4570-12-71						
	162+50	-	164+75	STH 42, RT	203	1,218
	169+50	-	179+09	STH 42, LT	959	5,754
	173+00	-	174+70	STH 42, RT	192	1,152
	175+00	-	179+09	STH 42, RT	446	2,676
	179+43	-	184+17	STH 42, LT	458	2,748
	179+43	-	181+00	STH 42, RT	155	930
	182+75	-	184+03	STH 42, RT	129	774
	190+45	-	190+84	STH 42, RT	120	720
	191+08	-	192+23	STH 42, RT	207	1,242
	192+58	-	193+15	STH 42, RT	81	486
	193+62	-	194+32	STH 42, LT	75	450
	10+75	-	11+65	MARITIME DR, RT	97	582
	11+86	-	12+79	MARITIME DR, RT	151	906
	WASTE SITE				500	3,000
	UNDISTRIBUTED				1077	6,462
	PROJECT TOTALS				4,850	29,100
	TOTALS				12,500	74,400

CULVERT PIPE CHECKS AND ROCK BAGS

ID	STATION	LOCATION	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH
PROJECT 1500-37-71				
	70+95	STH 10 / STH 42, LT	-	15
	71+05	STH 10 / STH 42, LT	-	15
	71+50	STH 10 / STH 42, LT	-	15
		UNDISTRIBUTED	-	100
	PROJECT TOTALS		0	145
PROJECT 4570-12-71				
	184+88	STH 42, LT	3	-
		UNDISTRIBUTED	-	100
	PROJECT TOTALS		3	100
	TOTALS		3	245

TRACKING PADS

ID	LOCATION	628.7560 EACH
1500-37-71		
	UNDISTRIBUTED	8
	PROJECT TOTAL	8
4570-12-71		
	UNDISTRIBUTED	8
	PROJECT TOTAL	8
	TOTAL	16

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

TOPSOIL, MULCHING, FERTILIZER, SOD, SEED, AND WATER

ID	STATION	TO	STATION	LOCATION	625.0100 TOPSOIL SY	627.0200 MULCHING * SY	629.0210 FERTILIZER, TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0300 SEEDING BORROW PIT LB	631.0300 SOD WATER MGAL	631.1000 SOD LAWN SY
PROJECT 1500-47-71													
	`	-	70+00	USH 10, EB	318	-	0.2	-	6	-	-	7	-
	69+75	-	70+00	USH 10, WB	62	-	0.1	-	1	-	-	1	-
	38+00	-	70+00	USH 10, CURB REPLACEMENT	300	-	0.2	5	3	5	-	7	-
	PROJECT TOTALS				680	0	0.5	5	10	5	0	15	0
PROJECT 1500-37-71													
	70+00	-	71+00	USH 10, EB	788	-	0.5	-	35	-	-	-	-
	70+00	-	71+50	USH 10, WB	925	-	0.6	-	42	-	-	-	-
	70+00	-	71+85	USH 10, MEDIAN	238	-	0.2	11	-	-	-	5	-
	70+00	-	75+60	USH 10, EB	251	-	0.2	-	-	-	-	6	251
	70+00	-	72+05	USH 10, WB, TERRACE	104	-	0.1	-	-	-	-	2	104
	71+00	-	75+57	USH 10, EB	426	-	0.3	-	19	-	-	-	-
	71+50	-	71+96	USH 10, WB	43	-	0.1	-	2	-	-	-	-
	72+67	-	75+61	USH 10, WB, TERRACE	164	-	0.1	-	-	-	-	4	164
	72+75	-	77+50	USH 10, MEDIAN	707	-	0.5	32	-	-	-	16	-
	72+78	-	75+57	USH 10, WB	225	-	0.1	-	10	-	-	-	-
	75+57		82+00	USH 10, EB	1,320	-	0.8	-	59	-	-	-	-
	75+57		82+00	USH 10, WB	1,307	-	0.8	-	59	-	-	-	-
	84+64	-	93+27	USH 10, EB	1,509	-	1.0	-	68	-	-	-	-
	84+64	-	93+05	USH 10, WB	1,098	-	0.7	-	49	-	-	-	-
	93+09	-	93+15	USH 10, WB, TERRACE	19	-	0.1	-	-	-	-	0.5	19
	93+12	-	93+36	USH 10, EB, TERRACE	18	-	0.1	-	-	-	-	0.5	18
	93+65	-	102+79	USH 10, WB, TERRACE	366	-	0.2	-	-	-	-	8	366
	93+73	-	98+93	USH 10, EB, TERRACE	216	-	0.1	-	-	-	-	5	216
	93+76	-	102+71	USH 10, WB	483	-	0.3	-	22	-	-	-	-
	93+83	-	99+00	USH 10, EB	238	-	0.2	-	11	-	-	-	-
	93+95	-	99+00	USH 10, MEDIAN	1,017	-	0.6	46	-	-	-	23	-
	99+25	-	102+75	USH 10, EB	255	-	0.2	-	11	-	-	-	-
	99+59	-	102+83	USH 10, EB, TERRACE	160	-	0.1	-	-	-	-	4	160
	99+73	-	102+55	USH 10, MEDIAN	509	-	0.3	23	-	-	-	11	-
	103+15	-	106+36	USH 10, WB, TERRACE	144	-	0.1	-	-	-	-	3	144
	103+19	-	106+40	USH 10, EB, TERRACE	154	-	0.1	-	-	-	-	3	154
	103+25	-	106+26	USH 10, WB	165	-	0.1	-	7	-	-	-	-
	103+27	-	106+30	USH 10, EB	145	-	0.1	-	7	-	-	-	-
	103+43	-	106+21	USH 10, MEDIAN	497	-	0.3	22	-	-	-	11	-
	106+65	-	107+40	USH 10, WB	71	-	0.1	-	3	-	-	-	-
	106+65	-	107+40	USH 10, WB, TERRACE	34	-	0.1	-	-	-	-	1	34
	106+76	-	117+95	USH 10, EB, TERRACE	443	-	0.3	-	-	-	-	10	443
	106+86	-	117+88	USH 10, EB	510	-	0.3	-	23	-	-	-	-
	106+87	-	107+32	USH 10, MEDIAN	77	-	0.1	3	-	-	-	2	-
	107+69	-	109+81	USH 10, WB, TERRACE	101	-	0.1	-	-	-	-	2	101

NOTE: CONTRACTOR WILL APPLY WATER FOR SODDED AREAS AND PLANTED AREAS IN MEDIAN AT 1-INCH PER WEEK (4 WEEKS)

NOTE: BORROW PIT SEEDING TO BE USED AT WASTE AREAS FOR FINAL STABILIZATION

* QUANTITIES SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

TOPSOIL, MULCHING, FERTILIZER, SOD, SEED, AND WATER (CONTINUED)

ID	STATION	TO	STATION	LOCATION	625.0100 TOPSOIL SY	627.0200 MULCHING * SY	629.0210 FERTILIZER, TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0300 SEEDING BORROW PIT LB	631.0300 SOD WATER MGAL	631.1000 SOD LAWN SY
PROJECT 1500-37-71													
	107+80	-	109+75	USH 10, WB	104	-	0.1	-	5	-	-	-	-
	107+89	-	109+63	USH 10, MEDIAN	380	-	0.2	17	-	-	-	-	-
	110+15	-	118+03	USH 10, WB, TERRACE	391	-	0.3	-	-	-	-	9	391
	110+20	-	117+91	USH 10, WB	443	-	0.3	-	20	-	-	-	-
	110+30	-	115+15	USH 10, MEDIAN	1,002	-	0.6	45	-	-	-	23	-
	118+46	-	121+93	USH 10, WB, TERRACE	166	-	0.1	-	-	-	-	4	166
	118+53	-	121+93	USH 10, EB, TERRACE	176	-	0.1	-	-	-	-	4	176
	118+57	-	121+79	USH 10, WB	182	-	0.1	-	8	-	-	-	-
	118+60	-	121+79	USH 10, EB	141	-	0.1	-	6	-	-	-	-
	122+22	-	125+36	USH 10, WB, TERRACE	144	-	0.1	-	-	-	-	3	144
	122+37	-	125+37	USH 10, EB, TERRACE	157	-	0.1	-	-	-	-	4	157
	122+22	-	125+22	USH 10, WB	131	-	0.1	-	6	-	-	-	-
	122+34	-	125+25	USH 10, EB	150	-	0.1	-	7	-	-	-	-
	122+39	-	125+19	USH 10, MEDIAN	623	-	0.4	28	-	-	-	14	-
	125+67	-	128+00	USH 10, WB, TERRACE	142	-	0.1	-	-	-	-	3	142
	125+67	-	128+00	USH 10, EB, TERRACE	125	-	0.1	-	-	-	-	3	125
	125+81	-	127+86	USH 10, WB	133	-	0.1	-	6	-	-	-	-
	125+78	-	127+88	USH 10, EB	105	-	0.1	-	5	-	-	-	-
	125+84	-	127+80	USH 10, MEDIAN	431	-	0.3	19	-	-	-	10	-
	128+29	-	130+76	USH 10, WB, TERRACE	152	-	0.1	-	-	-	-	3	152
	128+29	-	130+81	USH 10, EB, TERRACE	127	-	0.1	-	-	-	-	3	127
	128+44	-	130+66	USH 10, WB	126	-	0.1	-	6	-	-	-	-
	128+42	-	130+69	USH 10, EB	125	-	0.1	-	6	-	-	-	-
	128+49	-	130+60	USH 10, MEDIAN	464	-	0.3	21	-	-	-	10	-
	131+11	-	133+59	USH 10, EB, TERRACE	129	-	0.1	-	-	-	-	3	129
	131+14	-	134+32	USH 10, WB, TERRACE	130	-	0.1	-	-	-	-	3	130
	131+22	-	133+49	USH 10, EB	124	-	0.1	-	6	-	-	-	-
	131+27	-	134+25	USH 10, WB	134	-	0.1	-	6	-	-	-	-
	131+31	-	134+27	USH 10, MEDIAN	493	-	0.3	22	-	-	-	11	-
	133+89	-	136+20	USH 10, EB, TERRACE	118	-	0.1	-	-	-	-	3	118
	134+00	-	136+20	USH 10, EB	120	-	0.1	-	5	-	-	-	-
	10+45	-	12+10	N. MENASHA AVE, LT, TERRACE	112	-	0.1	-	-	-	-	3	112
	10+45	-	12+10	N. MENASHA AVE, LT	87	-	0.1	-	4	-	-	-	-
	10+37	-	12+10	N. MENASHA AVE, RT, TERRACE	91	-	0.1	-	-	-	-	2	91
	10+37	-	12+10	N. MENASHA AVE, RT	363	-	0.2	-	16	-	-	-	-
	135+05	-	136+36	USH 10, WB, TERRACE	66	-	0.1	-	-	-	-	1	66
	135+05	-	136+25	USH 10, WB	198	-	0.1	-	9	-	-	-	-
	135+06	-	139+48	USH 10, MEDIAN	891	-	0.6	40	-	-	-	20	-
	8+85	-	9+70	S. MENASHA AVE, RT, TERRACE	49	-	0.1	-	-	-	-	1	49
	8+85	-	9+39	S. MENASHA AVE, LT, TERRACE	30	-	0.1	-	-	-	-	1	30

NOTE: CONTRACTOR WILL APPLY WATER FOR SODDED AREAS AND PLANTED AREAS IN MEDIAN AT 1-INCH PER WEEK (4 WEEKS)

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* QUANTITIES SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

TOPSOIL, MULCHING, FERTILIZER, SOD, SEED, AND WATER (CONTINUED)

ID	STATION	TO	STATION	LOCATION	625.0100 TOPSOIL SY	627.0200 MULCHING * SY	629.0210 FERTILIZER, TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0300 SEEDING BORROW PIT LB	631.0300 SOD WATER MGAL	631.1000 SOD LAWN SY
PROJECT 1500-37-71													
	8+85	-	9+75	S. MENASHA AVE, RT	120	-	0.1	-	5	-	-	-	-
	8+15	-	8+35	N. 12TH ST, RT, TERRACE	12	-	0.1	-	-	-	-	0.5	12
	8+15	-	8+20	N. 12TH ST, RT	14	-	0.1	-	1	-	-	-	-
	8+15	-	9+56	N. 12TH ST, LT, TERRACE	76	-	0.1	-	-	-	-	2	76
	8+15	-	9+56	N. 12TH ST, LT	160	-	0.1	-	7	-	-	-	-
	8+98	-	9+59	N. 12TH ST, RT, TERRACE	39	-	0.1	-	-	-	-	1	39
	8+98	-	9+59	N. 12TH ST, RT	32	-	0.1	-	1	-	-	-	-
	136+68	-	141+34	USH 10, WB, TERRACE	204	-	0.1	-	-	-	-	5	204
	136+78	-	141+23	USH 10, WB	217	-	0.1	-	10	-	-	-	-
	136+84	-	141+35	USH 10, RT, TERRACE	198	-	0.1	-	-	-	-	4	198
	136+84	-	141+24	USH 10, EB	172	-	0.1	-	8	-	-	-	-
	141+74	-	145+03	USH 10, EB, TERRACE	163	-	0.1	-	-	-	-	4	163
	141+77	-	148+19	USH 10, WB, TERRACE	380	-	0.2	-	-	-	-	9	380
	141+87	-	144+93	USH 10, EB	138	-	0.1	-	6	-	-	-	-
	141+88	-	148+04	USH 10, WB	208	-	0.1	-	9	-	-	-	-
	145+38	-	148+18	USH 10, EB, TERRACE	184	-	0.1	-	-	-	-	4	184
	145+48	-	148+06	USH 10, EB	172	-	0.1	-	8	-	-	-	-
	11+25	-	12+70	N. 9TH ST, LT	95	-	0.1	-	4	-	-	-	-
	11+25	-	12+70	N. 9TH ST, EB	69	-	0.1	-	3	-	-	-	-
	148+50	-	151+28	USH 10, WB, TERRACE	204	-	0.1	-	-	-	-	5	204
	148+50	-	151+29	USH 10, EB, TERRACE	236	-	0.2	-	-	-	-	5	236
	148+65	-	148+65	USH 10, WB	206	-	0.1	-	9	-	-	-	-
	148+65	-	148+65	USH 10, EB	275	-	0.2	-	12	-	-	-	-
	12+50	-	12+90	N. 8TH ST, LT	11	-	0.1	-	1	-	-	-	-
	12+55	-	12+90	N. 8TH ST, RT	11	-	0.1	-	1	-	-	-	-
	151+68	-	152+25	USH 10, RT, TERRACE	66	-	0.1	-	-	-	-	1	66
	151+71	-	152+25	USH 10, WB, TERRACE	62	-	0.1	-	-	-	-	1	62
	151+79	-	152+25	USH 10, EB	60	-	0.1	-	3	-	-	-	-
	151+81	-	152+25	USH 10, WB	48	-	0.1	-	2	-	-	-	-
	151+90	-	152+25	USH 10, MEDIAN	65	-	0.1	3	-	-	-	1	-
	10+20	-	11+45	EMERGENCY VEHICLE RR CROSSING	208	208	1.1	-	9	-	-	-	-
	WASTE SITE				-	18,800	11.8	-	-	100	260	-	-
	UNDISTRIBUTED				7,033	992	8.4	43	103	50	-	59	647
	PROJECT TOTALS				35,120	20,000	41	375	750	150	260	360	6,950
PROJECT 4570-12-71													
	152+25	-	155+37	STH 42, EB	143	-	0.1	-	6	-	-	-	-
	152+25	-	155+50	STH 42, EB, TERRACE	146	-	0.1	-	-	-	-	3	146
	152+25	-	155+35	STH 42, WB	117	-	0.1	-	5	-	-	-	-
	152+25	-	155+50	STH 42, WB, TERRACE	144	-	0.1	-	-	-	-	3	144
	152+25	-	155+30	STH 42, MEDIAN	699	-	0.4	31	-	-	-	16	-

NOTE: CONTRACTOR WILL APPLY WATER FOR SODDED AREAS AND PLANTED AREAS IN MEDIAN AT 1-INCH PER WEEK (4 WEEKS)

NOTE: BORROW PIT SEEDING TO BE USED AT WASTE AREAS FOR FINAL STABILIZATION

* QUANTITIES SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

TOPSOIL, MULCHING, FERTILIZER, SOD, SEED, AND WATER (CONTINUED)

ID	STATION	TO	STATION	LOCATION	625.0100 TOPSOIL SY	627.0200 MULCHING * SY	629.0210 FERTILIZER, TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0300 SEEDING BORROW PIT LB	631.0300 SOD WATER MGAL	631.1000 SOD LAWN SY
PROJECT 4570-12-71													
	155+75	-	156+07	STH 42, EB	87	-	0.1	-	4	-	-	-	-
	155+75	-	156+07	STH 42, EB, TERRACE	14	-	0.1	-	-	-	-	0.5	14
	155+75	-	156+08	STH 42, WB	56	-	0.1	-	3	-	-	-	-
	155+75	-	156+08	STH 42, WB, TERRACE	13	-	0.1	-	-	-	-	0.5	13
	156+33	-	159+70	STH 42, EB, TERRACE	168	-	0.1	-	-	-	-	4	168
	156+35	-	159+71	STH 42, WB, TERRACE	186	-	0.1	-	-	-	-	4	186
	156+46	-	159+53	STH 42, EB	167	-	0.1	-	8	-	-	-	-
	156+47	-	159+55	STH 42, WB	225	-	0.1	-	10	-	-	-	-
	156+53	-	159+53	STH 42, MEDIAN	672	-	0.4	30	-	-	-	15	-
	160+01	-	172+75	STH 42, EB, TERRACE	541	-	0.1	-	-	-	-	12	541
	160+01	-	163+35	STH 42, WB, TERRACE	187	-	0.1	-	-	-	-	4	187
	160+18	-	184+03	STH 42, EB	1,612	-	0.1	-	73	-	-	-	-
	160+19	-	163+27	STH 42, WB	158	-	0.1	-	7	-	-	-	-
	160+18	-	163+20	STH 42, MEDIAN	679	-	0.4	31	-	-	-	15	-
	163+72	-	169+50	STH 42, WB, TERRACE	241	-	0.1	-	-	-	-	5	241
	163+82	-	184+17	STH 42, WB	919	-	0.1	-	41	-	-	-	-
	163+89	-	183+95	STH 42, MEDIAN	4,641	-	2.9	209	-	-	-	104	-
	169+50	-	184+17	STH 42, WB	682	-	0.1	-	31	-	-	-	-
	172+75	-	180+17	STH 42, EB, TERRACE	358	-	0.1	-	-	-	-	8	358
	180+17	-	183+93	STH 42, EB, TERRACE	177	-	0.1	-	-	-	-	4	177
	184+44	-	189+33	STH 42, EB	264	-	0.1	-	12	-	-	-	-
	184+47	-	194+90	STH 42, WB	2,640	-	0.1	-	119	-	-	-	-
	184+47	-	192+07	STH 42, WB, TERRACE	403	-	0.1	-	-	-	-	9	403
	184+54	-	189+33	STH 42, EB, TERRACE	462	-	0.1	-	-	-	-	10	462
	184+50	-	188+67	STH 42, MEDIAN	686	-	0.4	31	-	-	-	-	-
	190+45	-	191+56	STH 42, EB, TERRACE	277	-	0.1	-	-	-	-	6	277
	190+46	-	194+86	STH 42, EB	938	-	0.1	-	42	-	-	-	-
	190+75	-	194+78	STH 42, MEDIAN	874	-	0.6	39	-	-	-	20	-
	195+60	-	196+95	STH 42, MEDIAN	36	-	0.1	2	-	-	-	1	-
	10+75	-	13+24	MARITIME DR, RT	393	-	0.1	-	18	-	-	-	-
	10+89	-	13+08	MARITIME DR, LT	157	-	0.1	-	7	-	-	-	-
	10+96	-	13+08	MARITIME DR, LT, TERRACE	139	-	0.1	-	-	-	-	3	139
	11+13	-	13+30	MARITIME DR, MEDIAN, LT	482	-	0.3	22	-	-	-	-	-
	12+55	-	13+30	MARITIME DR, MEDIAN, RT	203	-	0.1	9	-	-	-	-	-
	WASTE SITE				-	6,000	3.8	-	-	50	90	-	-
	UNDISTRIBUTED				5,404	1,000	11.6	71	74	25	-	53	294
	PROJECT TOTALS				26,390	7,000	24	475	460	75	90	300	3,750
	TOTALS				62,190	27,000	65.5	855	1,220	230	350	675	10,700

NOTE: CONTRACTOR WILL APPLY WATER FOR SODDED AREAS AND PLANTED AREAS IN MEDIAN AT 1-INCH PER WEEK (4 WEEKS)

NOTE: BORROW PIT SEEDING TO BE USED AT WASTE AREAS FOR FINAL STABILIZATION

* QUANTITIES SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

EROSION MAT

ID	STATION	TO	STATION	LOCATION	628.2004 EROSION MAT CLASS I TYPE B SY	628.2006 EROSION MAT URBAN CLASS I, TYPE A SY	628.2008 EROSION MAT URBAN CLASS I, TYPE B SY
PROJECT 1500-47-71							
	69+21	-	70+00	USH 10, EB	-	-	318
	69+75	-	70+00	USH 10, WB	-	-	62
	38+00	-	70+00	USH 10, CURB REPLACEMENT	-	300	-
	PROJECT TOTALS				0	300	380
PROJECT 1500-37-71							
	70+00	-	71+85	USH 10, MEDIAN	-	238	-
	71+00	-	75+57	USH 10, EB	-	426	-
	71+50	-	71+96	USH 10, WB	-	43	-
	72+75	-	77+50	USH 10, MEDIAN	-	707	-
	72+78	-	75+61	USH 10, WB	-	225	-
	75+57	-	82+00	USH 10, EB	-	-	1,320
	75+57	-	82+00	USH 10, WB	-	-	1,307
	84+64	-	85+00	USH 10, EB	-	-	200
	84+64	-	85+00	USH 10, WB	-	-	145
	85+00	-	93+05	USH 10, WB	-	953	-
	85+00	-	91+00	USH 10, EB	-	576	-
	91+00	-	92+25	USH 10, EB	-	-	633
	92+25	-	93+27	USH 10, EB	-	100	-
	93+76	-	102+71	USH 10, WB	-	483	-
	93+83	-	99+00	USH 10, EB	-	224	-
	93+95	-	99+00	USH 10, MEDIAN	-	1,017	-
	99+25	-	102+75	USH 10, EB	-	255	-
	99+73	-	102+55	USH 10, MEDIAN	-	509	-
	103+25	-	106+26	USH 10, WB	-	165	-
	103+27	-	106+30	USH 10, EB	-	145	-
	103+43	-	106+21	USH 10, MEDIAN	-	497	-
	106+65	-	107+40	USH 10, WB	-	71	-
	106+86	-	117+88	USH 10, EB	-	510	-
	106+87	-	107+32	USH 10, MEDIAN	-	77	-
	107+80	-	109+75	USH 10, WB	-	104	-
	107+89	-	109+63	USH 10, MEDIAN	-	380	-
	110+20	-	117+91	USH 10, WB	-	443	-
	110+30	-	115+15	USH 10, MEDIAN	-	1,002	-
	118+57		121+79	USH 10, WB	-	182	-
	118+60		121+79	USH 10, EB	-	141	-
	122+22	-	125+22	USH 10, WB	-	131	-
	122+34	-	125+25	USH 10, EB	-	150	-
	122+39	-	125+19	USH 10, MEDIAN	-	623	-
	125+81		127+86	USH 10, WB	-	133	-
	125+78		127+88	USH 10, EB	-	105	-
	125+84		127+80	USH 10, MEDIAN	-	431	-
	128+44	-	130+66	USH 10, WB	-	126	-
	128+42	-	130+69	USH 10, EB	-	125	-

EROSION MAT (CONTINUED)

ID	STATION	TO	STATION	LOCATION	628.2004 EROSION MAT CLASS I TYPE B SY	628.2006 EROSION MAT URBAN CLASS I, TYPE A SY	628.2008 EROSION MAT URBAN CLASS I, TYPE B SY
PROJECT 1500-37-71							
	128+49	-	130+60	USH 10, MEDIAN	-	464	-
	131+22	-	133+49	USH 10, EB	-	124	-
	131+27	-	134+25	USH 10, WB	-	134	-
	131+31	-	134+27	USH 10, MEDIAN	-	493	-
	134+00	-	136+20	USH 10, EB	-	120	-
	10+45	-	12+10	N. MENASHA AVE, WB	-	87	-
	10+37	-	12+10	N. MENASHA AVE, RT	-	363	-
	135+05	-	136+25	USH 10, WB	-	198	-
	135+06	-	139+48	USH 10, MEDIAN	-	891	-
	8+85	-	975	S. MENASHA AVE, RT	-	120	-
	8+15	-	8+20	N. 12TH ST, RT	-	14	-
	8+15	-	9+56	N. 12TH ST, LT	-	160	-
	8+98	-	9+59	N. 12TH ST, RT	-	32	-
	136+78	-	141+23	USH 10, LT	-	217	-
	136+84	-	141+24	USH 10, RT	-	172	-
	141+87	-	144+93	USH 10, RT	-	138	-
	141+88	-	148+04	USH 10, LT	-	208	-
	145+48	-	148+06	USH 10, RT	-	172	-
	147+36	-	147+91	USH 10, MEDIAN	-	50	-
	11+25	-	12+70	N. 9TH ST, LT	-	95	-
	11+25	-	12+70	N. 9TH ST, RT	-	69	-
	148+65	-	148+65	USH 10, LT	-	206	-
	148+65	-	148+65	USH 10, RT	-	275	-
	148+78	-	151+05	USH 10, MEDIAN	-	220	-
	12+50	-	12+90	N. 8TH ST, LT	-	11	-
	12+55	-	12+90	N. 8TH ST, RT	-	11	-
	151+79	-	152+25	USH 10, RT	-	60	-
	151+81	-	152+25	USH 10, LT	-	48	-
	151+90	-	152+25	USH 10, MEDIAN	-	65	-
	10+20	-	11+45	EMERGENCY RR CROSSING	600	-	-
	UNDISTRIBUTED				200	4,186	1360
	PROJECT TOTALS				800	20,700	4,965
PROJECT 4570-12-71							
	152+25	-	155+37	STH 42, RT	-	143	-
	152+25	-	155+35	STH 42, LT	-	117	-
	152+25	-	155+30	STH 42, MEDIAN	-	699	-
	155+75	-	156+07	STH 42, RT	-	87	-
	155+75	-	156+08	STH 42, LT	-	56	-
	156+46	-	159+53	STH 42, RT	-	167	-
	156+47	-	159+55	STH 42, LT	-	225	-
	156+53	-	159+53	STH 42, MEDIAN	-	672	-
	160+18	-	184+03	STH 42, RT	-	1,612	-
	160+19	-	163+27	STH 42, LT	-	158	-

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

EROSION MAT (CONTINUED)

ID	STATION	TO	STATION	LOCATION	628.2004 EROSION MAT CLASS I TYPE B SY	628.2006 EROSION MAT URBAN CLASS I, TYPE A SY	628.2008 EROSION MAT URBAN CLASS I, TYPE B SY
PROJECT 4570-12-71							
	160+18	-	163+20	STH 42, MEDIAN	-	679	-
	163+82	-	184+17	STH 42, LT	-	919	-
	163+89	-	183+95	STH 42, MEDIAN	-	4,641	-
	169+50	-	184+17	STH 42, LT, BLVD	-	682	-
	172+75	-	184+17	STH 42, RT, BLVD	-	358	-
	184+44	-	189+33	STH 42, RT	-	264	-
	184+47	-	194+90	STH 42, LT	-	1,935	-
	184+93	-	193+65	STH 42, LT	705	-	-
	184+47	-	192+07	STH 42, LT, BLVD	-	403	-
	184+50	-	188+67	STH 42, MEDIAN	-	686	-
	190+45	-	191+56	STH 42, RT, BLVD	-	277	-
	190+46	-	194+86	STH 42, RT	-	938	-
	190+75	-	194+78	STH 42, MEDIAN	-	874	-
	195+60	-	196+95	STH 42, MEDIAN	-	36	-
	10+75	-	13+24	MARITIME DR, RT	-	393	-
	10+89	-	13+08	MARITIME DR, LT	-	157	-
	11+13	-	13+30	MARITIME DR, MEDIAN, LT	-	482	-
	12+55	-	13+30	MARITIME DR, MEDIAN, RT	-	203	-
	UNDISTRIBUTED				195	4,537	300
	PROJECT TOTALS				900	22,400	300
	TOTALS				1,700	43,400	5,645

INLET PROTECTION

ID	STRUCTURE NO.	STATION	LOCATION	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
PROJECT 1500-47-71							
		43+54	USH 10, WB, LT	-	-	1	-
		43+52	USH 10, EB, MEDIAN	-	-	1	-
		43+52	USH 10, EB, RT	-	-	1	-
		43+98	USH 10, EB, RT	-	-	1	-
		45+01	USH 10, WB, LT	1	1	-	-
		46+52	USH 10, WB, LT	-	-	1	-
		46+52	USH 10, WB, MEDIAN	-	-	1	-
		46+50	USH 10, EB, MEDIAN	-	-	1	-
		46+53	USH 10, EB, RT	-	-	1	-
		47+08	USH 10, EB, RT	-	-	1	-
		47+40	USH 10, EB, RT	-	-	1	-
		49+49	USH 10, WB, LT	-	-	1	-
		49+30	USH 10, WB, MEDIAN	-	-	1	-
		49+30	USH 10, EB, MEDIAN	-	-	1	-
		49+35	USH 10, EB, RT	-	-	1	-
		51+28	USH 10, WB, LT	-	-	1	-
		51+28	USH 10, WB, MEDIAN	-	-	1	-
		51+28	USH 10, EB, MEDIAN	-	-	1	-
		51+28	USH 10, EB, RT	-	-	1	-
		53+20	USH 10, WB, MEDIAN	-	-	1	-
		53+20	USH 10, EB, MEDIAN	-	-	1	-
		53+52	USH 10, EB, RT	-	-	1	-
		53+83	USH 10, EB, RT	-	-	1	-
		54+20	USH 10, EB, RT	-	-	1	-
		54+71	USH 10, WB, LT	-	-	-	1
		54+79	USH 10, WB, MEDIAN	-	-	-	1
		54+79	USH 10, EB, MEDIAN	-	-	-	1
		54+79	USH 10, EB, RT	-	-	-	1
		57+32	USH 10, WB, LT	-	-	1	-
		57+32	USH 10, WB, MEDIAN	-	-	1	-
		57+32	USH 10, EB, MEDIAN	-	-	1	-
		57+34	USH 10, EB, RT	-	-	1	-
		62+82	USH 10, WB, LT	-	-	1	-
		62+82	USH 10, WB, MEDIAN	-	-	1	-
		62+82	USH 10, EB, MEDIAN	-	-	1	-
		62+84	USH 10, EB, RT	-	-	1	-
		65+33	USH 10, WB, LT	-	-	1	-
		65+33	USH 10, WB, MEDIAN	-	-	1	-
		65+32	USH 10, EB, MEDIAN	-	-	1	-
		65+32	USH 10, EB, RT	-	-	1	-
		67+57	USH 10, WB, LT	-	-	1	-
		67+58	USH 10, WB, MEDIAN	-	-	1	-
		67+58	USH 10, EB, MEDIAN	-	-	1	-
		67+57	USH 10, EB, RT	-	-	1	-
			CTH R, SOUTH OF USH 10	-	-	1	-
			CTH R, TURN LANE	-	-	2	-
			GLENVIEW DRIVE, SOUTH OF USH 10	-	-	2	-
			W. CRESCENT DRIVE, SOUTH OF USH 10	-	-	2	-
			E. CRESCENT DRIVE, SOUTH OF USH 10	-	-	1	-
			HAUL ROUTES	-	-	8	1
	PROJECT TOTALS			1	1	55	5

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

INLET PROTECTION

ID	STRUCTURE NO.	STATION	LOCATION	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
PROJECT 1500-37-71							
	20.1	70+90	USH 10, WB, LT	1	-	1	-
	20.2	70+80	USH 10, WB, LT	1	-	-	1
	20.3	70+90	USH 10, WB, MEDIAN	1	-	1	-
	20.4	70+80	USH 10, WB, MEDIAN	1	-	-	1
	20.5	70+90	USH 10, EB, MEDIAN	1	-	1	-
	20.6	70+80	USH 10, EB, MEDIAN	1	-	-	1
	20.7	70+90	USH 10, EB, RT	1	-	1	-
	22.0	70+80	USH 10, EB, RT	1	-	-	1
	24.1	10+64	FLEETWOOD DR, RT	1	-	1	-
	24.2	10+64	FLEETWOOD DR, LT	1	-	1	-
	26.1	73+16	USH 10, WB, LT	1	-	1	-
	26.2	73+17	USH 10, WB, MEDIAN	1	-	1	-
	26.3	73+17	USH 10, EB, MEDIAN	1	-	1	-
	26.4	73+16	USH 10, EB, RT	1	-	1	-
	28.1	76+00	USH 10, WB, LT	1	-	1	-
	28.2	76+00	USH 10, WB, MEDIAN	1	-	1	-
	28.3	76+00	USH 10, EB, MEDIAN	1	-	1	-
	28.4	76+00	USH 10, EB, RT	1	-	1	-
	30.1	79+08	USH 10, WB, LT	1	-	1	-
	30.2	79+08	USH 10, WB, MEDIAN	1	-	1	-
	30.3	79+00	USH 10, EB, MEDIAN	1	-	1	-
	30.4	79+00	USH 10, EB, RT	1	-	1	-
	40.1	85+05	USH 10, WB, LT	1	-	1	-
	40.2	85+05	USH 10, WB, MEDIAN	1	-	1	-
	40.3	85+13	USH 10, EB, MEDIAN	1	-	1	-
	40.4	85+13	USH 10, EB, RT	1	-	1	-
	42.1	87+92	USH 10, WB, LT	1	-	1	-
	42.2	87+92	USH 10, WB, MEDIAN	1	-	1	-
	42.3	88+00	USH 10, EB, MEDIAN	1	-	1	-
	42.4	88+00	USH 10, EB, RT	1	-	1	-
	44.1	90+91	USH 10, WB, LT	1	-	1	-
	44.2	90+91	USH 10, WB, MEDIAN	1	-	1	-
	44.3	90+91	USH 10, EB, MEDIAN	1	-	1	-
	44.4	90+91	USH 10, EB, RT	1	-	1	-
	48.1	10+78	N. 23RD ST, RT	1	-	1	-
	48.2	10+87	N. 23RD ST, LT	1	-	1	-
	48.3	92+90	USH 10, WB, LT	1	-	-	1
	48.4	92+80	USH 10, WB, LT	1	-	1	-
	48.5	92+90	USH 10, WB, MEDIAN	1	-	-	1
	48.6	92+80	USH 10, WB, MEDIAN	1	-	1	-
	48.7	92+89	USH 10, EB, MEDIAN	1	-	-	1
	48.8	92+96	USH 10, EB, MEDIAN	1	-	1	-
	48.9	92+88	USH 10, EB, RT	1	-	-	1
	48.10	92+98	USH 10, EB, RT	1	-	1	-
	48.11	9+46	N. 23RD ST, LT	1	-	1	-

INLET PROTECTION

ID	STRUCTURE NO.	STATION	LOCATION	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
PROJECT 1500-37-71							
	48.12	9+46	N. 23RD ST, RT	1	-	1	-
	50.1	94+04	USH 10, WB, LT	1	-	1	-
	50.2	94+04	USH 10, WB, MEDIAN	1	-	1	-
	50.3	94+08	USH 10, EB, MEDIAN	1	-	1	-
	50.4	94+08	USH 10, EB, RT	1	-	1	-
	52.1	95+60	USH 10, WB, LT	1	-	1	-
	52.2	95+60	USH 10, WB, MEDIAN	1	-	1	-
	52.3	95+60	USH 10, EB, MEDIAN	1	-	1	-
	52.4	95+60	USH 10, EB, RT	1	-	1	-
	54.1	98+60	USH 10, WB, LT	1	-	1	-
	54.2	98+60	USH 10, WB, MEDIAN	1	-	1	-
	54.3	98+61	USH 10, EB, MEDIAN	1	-	1	-
	54.4	98+61	USH 10, EB, RT	1	-	1	-
	56.1	99+95	USH 10, EB, MEDIAN	1	-	-	1
	56.2	99+85	USH 10, EB, MEDIAN	1	-	1	-
	56.3	99+76	USH 10, EB, RT	1	-	-	1
	56.4	99+66	USH 10, EB, RT	1	-	1	-
	56.5	9+64	MENCHL DR, RT	1	-	1	-
	56.6	9+25	MENCHL DR, LT	1	-	1	-
	58.1	100+67	USH 10, LT	1	1	-	-
	58.2	100+10	USH 10, WB, LT	1	-	1	-
	58.3	100+02	USH 10, WB, LT	1	-	-	1
	58.4	100+10	USH 10, WB, MEDIAN	1	-	1	-
	58.5	100+00	USH 10, WB, MEDIAN	1	-	-	1
	64.1	10+78	N. 21ST ST, LT	1	-	1	-
	64.2	10+74	N. 21ST ST, RT	1	-	1	-
	64.3	103+43	USH 10, WB, LT	1	-	1	-
	64.4	103+62	USH 10, WB, MEDIAN	1	-	1	-
	64.5	103+60	USH 10, EB, MEDIAN	1	-	1	-
	64.6	103+45	USH 10, EB, RT	1	-	1	-
	64.7	9+57	N. 21ST ST, RT	1	-	1	-
	64.8	9+57	N. 21ST ST, LT	1	-	1	-
	66.1A	106+55	USH 10, WB, LT	1	-	1	-
	66.1	10+79	PARK ROW BLVD, SB, LT	1	-	1	-
	66.2	106+11	USH 10, WB, LT	1	-	1	-
	66.3	106+15	USH 10, WB, MEDIAN	1	-	1	-
	66.0	106+15	USH 10, EB, MEDIAN	1	-	1	-
	66.4	106+13	USH 10, EB, RT	1	-	1	-
	68.1	10+52	PARK ROW BLVD, NB, RT	1	-	1	-
	68.1A	107+41	USH 10, WB, LT	1	-	1	-
	68.2	107+34	USH 10, WB, LT	1	-	1	-
	68.3	107+26	USH 10, WB, MEDIAN	1	-	1	-
	68.4	107+23	USH 10, EB, MEDIAN	1	-	1	-
	70.1	10+50	ELM ST, RT	1	-	1	-
	70.2	10+50	ELM ST, LT	1	-	1	-

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

INLET PROTECTION

ID	STRUCTURE NO.	STATION	LOCATION	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
PROJECT 1500-37-71							
	70.3	109+61	USH 10, WB, LT	1	-	1	-
	70.4	109+62	USH 10, WB, MEDIAN	1	-	1	-
	70.5	109+62	USH 10, EB, MEDIAN	1	-	1	-
	70.6	109+63	USH 10, EB, RT	1	-	1	-
	72.1	112+74	USH 10, WB, LT	1	-	1	-
	72.2	112+75	USH 10, WB, MEDIAN	1	-	1	-
	72.3	112+76	USH 10, EB, MEDIAN	1	-	1	-
	72.4	112+73	USH 10, EB, RT	1	-	1	-
	74.1	115+09	USH 10, WB, LT	1	-	1	-
	74.2	115+09	USH 10, WB, MEDIAN	1	-	1	-
	74.3	115+10	USH 10, EB, MEDIAN	1	-	1	-
	74.4	115+11	USH 10, EB, RT	1	-	1	-
	76.1	117+72	USH 10, WB, LT	1	-	1	-
	76.2	117+55	USH 10, WB, MEDIAN	1	-	1	-
	76.3	117+55	USH 10, EB, MEDIAN	1	-	1	-
	76.4	117+71	USH 10, EB, RT	1	-	1	-
	78.1	10+76	N. 18TH ST, LT	1	-	1	-
	78.2	10+76	N. 18TH ST, RT	1	-	1	-
	80.1	9+29	N. 18TH ST, LT	1	-	1	-
	80.2	9+27	N. 18TH ST, RT	1	-	1	-
	84.1	120+50	USH 10, WB, LT	1	-	1	-
	84.2	120+50	USH 10, WB, MEDIAN	1	-	1	-
	84.3	120+50	USH 10, EB, MEDIAN	1	-	1	-
	84.4	120+50	USH 10, EB, RT	1	-	1	-
	86.1	10+77	N. 17TH ST, LT	1	-	1	-
	86.2	10+77	N. 17TH ST, RT	1	-	1	-
	86.3	121+60	USH 10, WB, LT	1	-	1	-
	86.4	121+61	USH 10, WB, MEDIAN	1	-	1	-
	86.5	121+61	USH 10, EB, MEDIAN	1	-	1	-
	86.6	121+61	USH 10, EB, RT	1	-	1	-
	86.7	9+49	N. 17TH ST, RT	1	-	1	-
	86.8	9+49	N. 17TH ST, LT	1	-	1	-
	90.1	123+25	USH 10, WB, LT	1	-	1	-
	90.2	123+25	USH 10, WB, MEDIAN	1	-	1	-
	90.3	123+25	USH 10, EB, MEDIAN	1	-	1	-
	90.4	123+25	USH 10, EB, RT	1	-	1	-
	92.1	10+77	N. 16TH ST, LT	1	-	1	-
	92.2	10+77	N. 16TH ST, RT	1	-	1	-
	92.3	125+10	USH 10, WB, LT	1	-	1	-
	92.4	125+15	USH 10, WB, MEDIAN	1	-	1	-
	92.5	125+15	USH 10, EB, MEDIAN	1	-	1	-
	92.6	125+11	USH 10, EB, RT	1	-	1	-
	92.7	9+49	N. 16TH ST, RT	1	-	1	-
	92.8	9+49	N. 16TH ST, LT	1	-	1	-
	96.1	10+77	N. 15TH ST, LT	1	-	1	-

INLET PROTECTION

ID	STRUCTURE NO.	STATION	LOCATION	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
PROJECT 1500-37-71							
	96.2	10+77	N. 15TH ST, RT	1	-	1	-
	96.3	127+75	USH 10, WB, LT	1	-	1	-
	96.4	127+75	USH 10, WB, MEDIAN	1	-	1	-
	96.5	127+75	USH 10, EB, MEDIAN	1	-	1	-
	96.6	127+75	USH 10, EB, RT	1	-	1	-
	96.7	9+49	N. 15TH ST, RT	1	-	1	-
	96.8	9+49	N. 15TH ST, LT	1	-	1	-
	100.1	10+77	N. 14TH ST, LT	1	-	1	-
	100.2	10+77	N. 14TH ST, RT	1	-	1	-
	100.3	130+50	USH 10, WB, LT	1	-	1	-
	100.4	130+56	USH 10, WB, MEDIAN	1	-	1	-
	100.5	130+55	USH 10, EB, MEDIAN	1	-	1	-
	100.6	130+59	USH 10, EB, RT	1	-	1	-
	100.7	9+47	N. 14TH ST, RT	1	-	1	-
	100.8	9+47	N. 14TH ST, LT	1	-	1	-
	102.1	133+42	USH 10, WB, LT	1	-	1	-
	102.2	133+43	USH 10, WB, MEDIAN	1	-	1	-
	102.3	133+43	USH 10, EB, MEDIAN	1	-	1	-
	102.4	133+43	USH 10, EB, RT	1	-	1	-
	102.5	9+47	N. 13TH ST, LT	1	-	1	-
	102.6	9+47	N. 13TH ST, RT	1	-	1	-
	104.1	13+09	USH 10, WB, LT	1	-	1	-
	104.2	134+09	USH 10, WB, MEDIAN	1	-	1	-
	104.3	134+08	USH 10, EB, MEDIAN	1	-	1	-
	105.1	134+39	N. MENASHA AVE, LT	1	-	1	-
	105.2	10+80	N. MENASHA AVE, LT	1	-	-	1
	105.3	134+84	N. MENASHA AVE, RT	1	-	-	1
	105.4	10+80	N. MENASHA AVE, RT	1	-	1	-
	106.1	135+40	USH 10, LT	1	1	-	-
	106.2	135+76	USH 10, WB, LT	1	-	1	-
	106.3	135+76	USH 10, WB, MEDIAN	1	-	1	-
	106.4	135+77	USH 10, EB, MEDIAN	1	-	1	-
	106.5	135+77	USH 10, EB, RT	1	-	1	-
	108.2	9+47	N. 12TH ST, LT	1	-	1	-
	108.3	9+47	N. 12TH ST, RT	1	-	1	-
	108.4	9+69	S. MENASHA AVE, RT	1	-	1	-
	108.5	9+31	S. MENASHA AVE, LT	1	-	1	-
	108.6	8+88	S. MENASHA AVE, LT	1	-	1	-
	108.7	8+18	N. 12TH ST, LT	1	-	1	-
	110.1	138+34	USH 10, WB, LT	1	-	1	-
	110.2	138+23	USH 10, WB, LT	1	-	-	1
	110.3	138+34	USH 10, WB, MEDIAN	1	-	1	-
	110.4	138+23	USH 10, WB, MEDIAN	1	-	-	1
	110.5	138+34	USH 10, EB, MEDIAN	1	-	1	-
	110.6	138+24	USH 10, EB, MEDIAN	1	-	-	1

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

INLET PROTECTION

ID	STRUCTURE NO.	STATION	LOCATION	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
PROJECT 1500-37-71							
110.7		138+34	USH 10, EB, RT	1	-	1	-
110.8		138+24	USH 10, EB, RT	1	-	-	1
112.1		140+99	USH 10, WB, LT	1	-	-	1
112.2		140+89	USH 10, WB, LT	1	-	1	-
112.3		140+93	USH 10, WB, MEDIAN	1	-	1	-
112.4		141+03	USH 10, WB, MEDIAN	1	-	-	1
112.5		140+99	USH 10, EB, MEDIAN	1	-	1	-
112.6		141+09	USH 10, EB, MEDIAN	1	-	-	1
112.7		140+90	USH 10, EB, RT	1	-	1	-
112.8		141+00	USH 10, EB, RT	1	-	-	1
114.1		10+80	N. 11TH ST, RT	1	-	1	-
114.2		10+90	N. 11TH ST, RT	1	-	-	1
114.4		10+90	N. 11TH ST, LT	1	-	1	-
114.5		10+80	N. 11TH ST, LT	1	-	-	1
114.6		9+47	N. 11TH ST, RT	1	-	1	-
114.8		9+47	N. 11TH ST, LT	1	-	1	-
116.1		142+08	USH 10, WB, LT	1	-	1	-
116.2		142+19	USH 10, WB, MEDIAN	1	-	1	-
116.3		142+19	USH 10, EB, MEDIAN	1	-	1	-
116.4		142+19	USH 10, EB, RT	1	-	1	-
118.1		143+75	USH 10, WB, LT	1	-	1	-
118.2		143+75	USH 10, WB, MEDIAN	1	-	1	-
118.3		143+75	USH 10, EB, MEDIAN	1	-	1	-
118.4		143+75	USH 10, EB, RT	1	-	1	-
120.1		145+70	USH 10, WB, LT	1	-	1	-
120.2		145+70	USH 10, WB, MEDIAN	1	-	1	-
120.3		145+70	USH 10, EB, MEDIAN	1	-	1	-
120.4		145+65	USH 10, EB, RT	1	-	1	-
120.5		9+49	N. 10TH ST, RT	1	-	1	-
120.6		9+47	N. 10TH ST, LT	1	-	1	-
122.3		12+67	N. 9TH ST, RT	1	-	1	-
122.4		12+67	N. 9TH ST, LT	1	-	1	-
122.5		9+47	N. 9TH ST, LT	1	-	1	-
122.6		9+47	N. 9TH ST, RT	1	-	1	-
126.1		12+61	N. 8TH ST, LT	1	-	1	-
126.5		150+79	USH 10, WB, LT	1	-	1	-
126.6		150+79	USH 10, WB, MEDIAN	1	-	1	-
126.7		150+83	USH 10, EB, MEDIAN	1	-	1	-
126.8		150+83	USH 10, EB, RT	1	-	1	-
126.9		9+58	N. 8TH ST, LT	1	-	1	-
126.10		9+39	N. 8TH ST, RT	1	-	1	-
		11+44	EMERGENCY RR CROSSING	-	-	1	-
			HAUL ROUTES			19	16
PROJECT TOTALS				221	2	215	40

INLET PROTECTION

ID	STRUCTURE NO.	STATION	LOCATION	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
PROJECT 4570-12-71							
128.1		153+69	STH 42, WB, LT	1	-	1	-
128.2		153+69	STH 42, WB, MEDIAN	1	-	1	-
128.3		153+70	STH 42, EB, MEDIAN	1	-	1	-
128.4		153+70	STH 42, EB, RT	1	-	1	-
130.1		10+66	LINCOLN BLVD, SB, RT	1	-	1	-
130.2		10+77	LINCOLN BLVD, SB, LT	1	-	1	-
130.3		155+21	STH 42, WB, LT	1	-	1	-
130.4		155+00	STH 42, WB, MEDIAN	1	-	1	-
130.5		155+00	STH 42, EB, MEDIAN	1	-	1	-
130.6		155+00	STH 42, EB, RT	1	-	1	-
132.4		10+77	LINCOLN BLVD, NB, RT	1	-	1	-
132.5		10+65	LINCOLN BLVD, NB, LT	1	-	1	-
132.6		9+59	LINCOLN BLVD, NB, LT	1	-	1	-
132.7		9+47	LINCOLN BLVD, NB, RT	1	-	1	-
132.8		9+58	LINCOLN BLVD, SB, RT	1	-	1	-
132.9		9+47	LINCOLN BLVD, SB, LT	1	-	1	-
134.1		10+76	N. 6TH ST, RT	1	-	1	-
134.3		10+66	N. 6TH ST, LT	1	-	1	-
134.4		159+43	STH 42, WB, LT	1	-	1	-
134.5		159+19	STH 42, WB, MEDIAN	1	-	1	-
134.6		159+20	STH 42, EB, MEDIAN	1	-	1	-
134.7		159+24	STH 42, EB, RT	1	-	1	-
134.8		9+49	N. 6TH ST, LT	1	-	1	-
134.9		9+46	N. 6TH ST, RT	1	-	1	-
		10+53	N. 5TH ST, RT	1	-	1	-
		10+52	N. 5TH ST, LT	1	-	1	-
136.3		163+07	STH 42, WB, LT	1	-	1	-
136.4		162+90	STH 42, WB, MEDIAN	1	-	1	-
136.5		162+90	STH 42, EB, MEDIAN	1	-	1	-
136.6		162+90	STH 42, EB, RT	1	-	1	-
138.1		166+00	STH 42, WB, LT	1	-	1	-
138.2		166+00	STH 42, WB, MEDIAN	1	-	1	-
138.3		166+00	STH 42, EB, MEDIAN	1	-	1	-
138.4		166+00	STH 42, EB, RT	1	-	1	-
140.1		169+02	STH 42, WB, LT	1	-	1	-
140.2		169+00	STH 42, WB, MEDIAN	1	-	1	-
140.3		169+00	STH 42, EB, MEDIAN	1	-	1	-
140.4		169+00	STH 42, EB, RT	1	-	1	-
142.1		172+00	STH 42, WB, LT	1	-	1	-
142.2		172+00	STH 42, WB, MEDIAN	1	-	1	-
142.3		172+00	STH 42, EB, MEDIAN	1	-	1	-
142.0		172+00	STH 42, EB, RT	1	-	1	-
150.1		174+99	STH 42, WB, LT	1	-	1	-
150.2		175+00	STH 42, WB, MEDIAN	1	-	1	-
150.3		175+00	STH 42, EB, MEDIAN	1	-	1	-

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

INLET PROTECTION

ID	STRUCTURE NO.	STATION	LOCATION	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
PROJECT 4570-12-71							
	150.0	175+00	STH 42, EB, RT	1	-	1	-
	152.1	177+97	STH 42, WB, LT	1	-	-	1
	152.2	177+87	STH 42, WB, LT	1	-	1	-
	152.3	177+97	STH 42, WB, MEDIAN	1	-	-	1
	152.4	177+87	STH 42, WB, MEDIAN	1	-	1	-
	152.5	177+95	STH 42, EB, MEDIAN	1	-	-	1
	152.6	177+85	STH 42, EB, MEDIAN	1	-	1	-
	152.7	177+95	STH 42, EB, RT	1	-	-	1
	152.0	177+85	STH 42, EB, RT	1	-	1	-
	160.1	179+59	STH 42, WB, LT	1	-	1	-
	160.2	179+59	STH 42, WB, MEDIAN	1	-	1	-
	160.3	179+60	STH 42, EB, MEDIAN	1	-	1	-
	160.4	179+60	STH 42, EB, RT	1	-	1	-
	162.1	182+28	STH 42, WB, LT	1	-	1	-
	162.2	182+28	STH 42, WB, MEDIAN	1	-	1	-
	162.3	182+28	STH 42, EB, MEDIAN	1	-	1	-
	162.4	182+28	STH 42, EB, RT	1	-	1	-
	164.2	184+89	STH 42, WB, LT	1	-	1	-
	164.3	184+89	STH 42, WB, MEDIAN	1	-	1	-
	164.4	184+89	STH 42, EB, MEDIAN	1	-	1	-
	164.5	184+87	STH 42, EB, RT	1	-	1	-
	166.1	186+57	STH 42, WB, LT	1	-	1	-
	166.2	186+56	STH 42, WB, MEDIAN	1	-	1	-
	166.3	186+57	STH 42, EB, MEDIAN	1	-	1	-
	166.4	186+54	STH 42, EB, RT	1	-	1	-
	170.1	190+49	STH 42, WB, LT	1	-	1	-
	170.2	190+50	STH 42, WB, MEDIAN	1	-	1	-
	170.3	2+68	STH 42 RAB, LT	1	-	-	1
	170.4	2+78	STH 42 RAB, LT	1	-	1	-
	172.1	1+51	STH 42 RAB, RT	1	-	1	-
	172.2	14+03	MARITIME DR, NB, MEDIAN	1	-	1	-
	174.1	15+07	MARITIME DR, SB, LT	1	-	1	-
	174.2	15+17	MARITIME DR, SB, LT	1	-	-	1
	174.3	12+79	MARITIME DR, SB, RT	1	-	1	-
	174.4	12+69	MARITIME DR, SB, RT	1	-	-	1
	174.5	12+99	MARITIME DR, NB, LT	1	-	1	-
	174.6	12+88	MARITIME DR, NB, LT	1	-	-	1
	174.7	13+14	MARITIME DR, NB, LT MEDIAN	1	-	1	-
	174.8	13+04	MARITIME DR, NB, LT MEDIAN	1	-	-	1
	174.9	13+29	MARITIME DR, NB, RT MEDIAN	1	-	1	-
	174.10	13+19	MARITIME DR, NB, RT MEDIAN	1	-	-	1
	174.11	13+41	MARITIME DR, NB, RT	1	-	1	-
	174.12	13+31	MARITIME DR, NB, RT	1	-	-	1
	180.1	193+15	STH 42, LT	1	1	-	-
	180.2	191+85	STH 42, WB, LT	1	-	1	-

INLET PROTECTION

ID	STRUCTURE NO.	STATION	LOCATION	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
PROJECT 4570-12-71							
	180.3	191+85	STH 42, WB, MEDIAN	1	-	1	-
	180.4	192+30	STH 42, EB, MEDIAN	1	-	1	-
	180.5	192+34	STH 42, EB, RT	1	-	1	-
	182.1	193+90	STH 42, WB, LT	1	-	1	-
	182.2	194+00	STH 42, WB, LT	1	-	-	1
	182.3	194+08	STH 42, WB, MEDIAN	1	-	1	-
	182.4	193+98	STH 42, WB, MEDIAN	1	-	-	1
	182.5	194+40	STH 42, EB, MEDIAN	1	-	-	1
	182.6	194+30	STH 42, EB, MEDIAN	1	-	1	-
	182.7	194+50	STH 42, EB, RT	1	-	-	1
	182.8	194+40	STH 42, EB, RT	1	-	1	-
	184	195+17	STH 42, WB, MEDIAN	1	-	1	-
			HAUL ROUTES	-	-	9	5
PROJECT TOTALS				102	1	95	20
TOTALS				324	4	365	65

EROSION CONTROL

ID	LOCATION	628.1905 MOBILIZATIONS EACH	628.1520 MOBILIZATIONS EMERGENCY EACH
PROJECT 1500-47-71			
	SUBSTAGE 3B	3	2
	PROJECT TOTALS	3	2
PROJECT 1500-37-71			
	SUBSTAGE 1B	3	2
	SUBSTAGE 1C	3	2
	SUBSTAGE 2A	3	2
	SUBSTAGE 2B	4	3
	PROJECT TOTALS	13	9
PROJECT 4570-12-71			
	SUBSTAGE 1A	4	5
	PROJECT TOTALS	4	5
	TOTALS	20	16

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

PLANTS AND TREES

ID	STATION	TO	STATION	LOCATION	DECIDUOUS TREES 632.0101.01 AUTUMN GOLD GINKGO (GI) EACH	632.0101.02 COMMON HACKBERRY (HA) EACH	632.0101.03 ESPRESSO KENTUCKY COFFEETREE (KC) EACH	632.0101.04 REGAL ELM (RE) EACH	632.0101.05 RED MAPLE (RM) EACH	632.0101.06 REDMOND LINDEN (RL) EACH	632.0101.07 SKYLINE HONEYLOCUST (SH) EACH	632.0101.08 SWAMP WHITE OAK (WO) EACH	ORNAMENTAL TREES 632.0101.09 AUTUMN BRILLIANCE SERVICEBERRY (AS) EACH	632.0101.10 COLORADO BLUE SPRUCE (BS) EACH	632.0101.11 SCHUBERT CHOKECHERRY (CH) EACH	632.0101.12 CRUSADER THORNLESS COCKSPUR HAWTHORN (CO) EACH	632.0101.13 SPRING SNOW CRABAPPLE (SS) EACH	SHRUBS, GRASSES, & PERENNIALS 632.0201.01 PLUMOSA CREEPING JUNIPER (Cj) EACH	632.0201.02 STAGHORN SUMAC (St) EACH	SPV.0060.13 WALKER'S LOW BLUE CATMINT (wl) EACH
PROJECT 1500-37-71																				
	69+00	-	75+00	USH 10	-	2	-	-	-	-	-	-	3	-	12	-	-	-	11	-
	75+00	-	93+00	USH 10	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
	93+00	-	99+00	USH 10	-	-	1	-	-	-	-	2	-	-	-	2	-	-	-	-
	99+00	-	105+00	USH 10	1	2	-	-	-	-	-	-	-	-	-	-	2	-	-	-
	105+00	-	111+00	USH 10	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	111+00	-	123+00	USH 10	-	-	1	2	-	3	-	-	2	-	-	-	-	-	-	-
	123+00	-	129+00	USH 10	-	2	-	-	-	-	-	2	-	-	-	-	-	-	-	-
	129+00	-	135+00	USH 10	-	-	-	-	-	-	3	-	-	-	-	2	-	-	-	-
	135+00	-	147+00	USH 10	-	-	-	-	7	2	-	-	2	-	-	-	-	-	-	-
	147+00	-	152+00	USH 10	-	-	-	-	2	-	-	-	3	-	-	-	-	-	-	-
PROJECT TOTALS					4	6	2	2	9	5	5	4	10	0	12	4	2	0	11	0
PROJECT 4570-12-71																				
	152+00	-	157+00	STH 42	-	-	3	-	-	-	-	-	-	-	-	2	-	-	-	-
	157+00	-	163+00	STH 42	3	-	2	-	-	-	-	2	-	-	-	1	-	-	-	-
	163+00	-	169+00	STH 42	-	2	-	3	-	2	2	-	-	-	-	2	-	-	-	-
	169+00	-	175+00	STH 42	-	2	4	1	-	-	3	2	-	-	-	-	-	-	-	-
	175+00	-	181+00	STH 42	-	-	2	2	-	4	1	3	-	-	-	-	-	-	-	-
	181+00	-	187+00	STH 42	-	2	-	-	-	-	3	1	3	-	-	-	2	-	-	-
	187+00	-	193+00	STH 42	-	-	-	-	-	-	-	-	8	11	-	3	-	111	-	228
PROJECT TOTALS					3	6	11	6	0	6	9	8	11	11	0	8	2	111	0	228
TOTALS					7	12	13	8	9	11	14	12	21	11	12	12	4	111	11	228

SEEDING, MULCHING, AND PLANTING AND SOIL MIX

ID	STATION	TO	STATION	LOCATION	627.0200 MULCHING* SY	630.0400 SEEDING NURSE CROP LB	SPV.0035.01 PLANTING SOIL MIX CY	SPV.0085.01 SEEDING SWITCHGRASS LB	SPV.0180.02 SHREDDED HARDWOOD BARK MULCH SY	REMARKS
PROJECT 4570-12-71										
	187+78	-	188+97	STH 42	210	2	70	8	95	PLANTING BED
	188+97	-	190+44	STH 42	453	4	152	17	235	PLANTING BED
	191+13	-	192+81	STH 42	337	3	113	12	70	PLANTING BED
TOTALS					1,000	9	335	37	400	

NOTE: PLACE PLANTING SOIL MIX 1-FOOT DEEP IN PLANTING BED

* ADDITONAL QUANTITIES SHOWN ELSEWHERE

LANDSCAPE PLANTING SURVEILLANCE AND CARE CYCLES

ID	LOCATION	632.9101 EACH
1500-37-71		
	UNDISTRIBUTED	10
	PROJECT TOTAL	10
4570-12-71		
	UNDISTRIBUTED	10
	PROJECT TOTAL	10
	TOTAL	20

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

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REMOVING OVERHEAD SIGN SUPPORTS FULL SPAN

ID	STATION	LOCATION	638.3155.01 S-36-025 EACH	638.3155.02 S-36-034 EACH	638.3155.03 S-36-035 EACH
PROJECT 1500-37-71					
	144+77	USH 10 WB	---	1	---
	147+93	USH 10 WB	---	---	1
	149+31	USH 10 EB	1	---	---
	TOTALS		1	1	1

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

REMOVAL OF TYPE II SIGNS AND SUPPORTS

ID	SIGN NO.	LOCATION	SIGN CODE	MOUNTED WITH SIGN NO.	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
PROJECT 1500-47-71							
	101	USH 10 WB	R4-7		1	---	BANDED TO SIGNAL
	102	USH 10 EB	R1-1F	101	---	---	BANDED TO SIGNAL
	103	USH 10 EB	R1-1F		1	---	BANDED TO SIGNAL
	105	USH 10 EB	J13-3		1	2	
	106	N RAPIDS RD - SOUTH OF USH 10	R4-7		1	---	BANDED TO SIGNAL
	107	N RAPIDS RD - SOUTH OF USH 10	R1-1F	106	---	---	BANDED TO SIGNAL
	108	N RAPIDS RD - SOUTH OF USH 10	R1-1F		1	---	BANDED TO SIGNAL
	109	N RAPIDS RD - SOUTH OF USH 10	R5-1	110	---	---	BANDED TO #110
	110A	N RAPIDS RD - SOUTH OF USH 10	J13-3		1	2	
	111	USH 10 EB	J4-2		1	1	
	112	USH 10 EB	W4-1R		1	1	
	113	USH 10 EB	R8-3	112	---	---	BANDED BELOW #112
	114	USH 10 EB	R1-2		1	1	
	115	USH 10 EB	R1-2		1	1	
	116	USH 10 EB	R5-1	114	---	---	BANDED TO BACK OF #114
	117	USH 10 EB	R2-1		1	---	BANDED TO LIGHT POLE
	118	USH 10 EB	R8-3		1	1	
	121	N RAPIDS RD - NORTH OF USH 10	R5-1	122	---	---	
	122A	N RAPIDS RD - NORTH OF USH 10	J13-3		1	2	
	123	N RAPIDS RD - NORTH OF USH 10	R1-1F		1	---	BANDED TO SIGNAL
	124	N RAPIDS RD - NORTH OF USH 10	R1-1F		1	---	BANDED TO SIGNAL
	125	N RAPIDS RD - NORTH OF USH 10	R4-7	124	---	---	BANDED TO SIGNAL
	126	USH 10 WB	R1-2		1	1	
	127	USH 10 WB	R1-1F		1	---	BANDED TO SIGNAL
	128	USH 10 WB	R1-1F		1	---	BANDED TO SIGNAL
	129	USH 10 WB	R4-7	128	---	---	BANDED TO SIGNAL
	130A	USH 10 WB	J2-3		1	2	
	131	USH 10 WB	M6-6	132	---	---	BANDED BELOW #132
	132	USH 10 WB	R14-1	134	---	---	BANDED BELOW #134
	133	USH 10 WB	R8-3	134	---	---	BANDED BELOW #134
	134	USH 10 WB	D1-1		1	2	ROCKWOOD ->
	135	USH 10 WB	W3-3		1	1	
	136A	USH 10 WB	J4-3		1	2	
	201	N 40TH ST	R1-1		1	1	
	204	USH 10 EB	R8-3		1	---	BANDED TO POWER POLE
	205	USH 10 EB	R2-1		1	---	BANDED TO LIGHT POLE
	208	USH 10 EB	W11-2		1	---	BANDED TO POWER POLE
	209	GLENVIEW DR	R1-1		1	1	
	210	USH 10 EB	J4-2		1	1	
	211	USH 10 EB	R8-3	210	---	---	BANDED BELOW #210
	213	USH 10 EB	R8-3		1	---	BANDED TO POWER POLE
	214	W CRESCENT DR	R1-1		1	1	
	217	USH 10 EB	R2-1		1	---	BANDED TO POWER POLE
	218	USH 10 EB	R8-3	217	---	---	BANDED BELOW #217

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

REMOVAL OF TYPE II SIGNS AND SUPPORTS CONT.

ID	SIGN NO.	LOCATION	SIGN CODE	MOUNTED WITH SIGN NO.	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
PROJECT 1500-47-71 CONT.							
	219	USH 10 WB	R2-1		1	---	BANDED TO SIGNAL
	221	USH 10 WB	J1-1		1	---	BANDED TO POWER POLE
	227	USH 10 WB	R8-3		1	---	BANDED TO POWER POLE
	228	USH 10 WB	J4-3		1	---	BANDED TO POWER POLE
	230	USH 10 WB	W11-2		1	---	BANDED TO POWER POLE
	232	USH 10 WB	R2-1		1	---	BANDED TO POWER POLE
	233	USH 10 WB	R8-3		1	---	BANDED TO POWER POLE
	302	E CRESENT DR	R1-1		1	1	
	304	USH 10 EB	R8-3		1	---	BANDED TO POWER POLE
	305	USH 10 EB	R2-1		1	---	
	310	USH 10 WB	R2-1		1	---	BANDED TO LIGHT POLE
		PROJECT TOTALS			42	24	
PROJECT 1500-37-71							
	306	USH 10 EB	R8-3		1	1	
	307	USH 10 EB	J4-2		1	1	
	313	USH 10 WB	R2-1		1	---	BANDED TO POWER POLE
	314	USH 10 WB	R8-3	113	---	---	BANDED TO POWER POLE
	315	USH 10 WB	J4-2		1	1	
	316	FLEETWOOD DR	R1-1		1	1	
	402	USH 10 EB	R2-1		1	---	BANDED TO POWER POLE
	502	N 23RD ST	R1-1		1	1	
	503	USH 10 EB	J4-2		1	---	BANDED TO LIGHT POLE
	507	USH 10 EB	W10-1		1	---	BANDED TO POWER POLE
	508	USH 10 EB	W10-1A	507	---	---	BANDED TO POWER POLE
	509	USH 10 EB	R8-3		1	---	BANDED TO POWER POLE
	511	MENCHL DR	R1-1		1	1	
	512	USH 10 EB	R15-1		1	---	BANDED TO POWER POLE
	513	USH 10 EB	R8-9	512	---	---	BANDED TO POWER POLE
	514	N 21ST ST	R1-1		1	1	
	517	USH 10 WB	J4-2		1	---	BANDED TO LIGHT POLE
	520	N 20TH ST	R1-1		1	1	
	522	USH 10 EB	J4-2		1	---	BANDED TO LIGHT POLE
	523	N 23RD ST	R1-1		1	1	
	524	USH 10 WB	R2-1		1	---	BANDED TO LIGHT POLE
	526	USH 10 WB	R15-1		1	1	
	527	USH 10 WB	R8-9	526	---	---	BANDED BELOW SIGN 526
	528	USH 10 WB	R8-3		1	1	
	529	USH 10 WB	W10-1		1	---	BANDED TO LIGHT POLE
	530	USH 10 WB	W10-1A	529	---	---	BANDED BELOW #529

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

REMOVAL OF TYPE II SIGNS AND SUPPORTS CONT.

ID	SIGN NO.	LOCATION	SIGN CODE	MOUNTED WITH SIGN NO.	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
PROJECT 1500-37-71 CONT.							
	533	N 21ST ST	R1-1		1	1	
	535	USH 10 WB	R2-1		1	---	BANDED TO LIGHT POLE
	536	USH 10 WB	R8-3		1	1	
	538	PARK ROW BLVD	R1-1		1	1	
	539	PARK ROW BLVD	R5-1		1	1	
	601	USH 10 WB	R2-1		1	---	BANDED TO LIGHT POLE
	602	USH 10 EB	R14-1 MOD		1	---	
	603	USH 10 EB	R2-1		1	---	BANDED TO LIGHT POLE
	604A	USH 10 EB	S1-1		1	---	BANDED TO LIGHT POLE
	604B	USH 10 EB	S16-9P	604A	---	---	BANDED BELOW #604
	605A	USH 10 EB	S1-1		1	1	
	605B	USH 10 EB	S16-9P	605A	---	---	
	606	USH 10 EB	S1-1		1	---	BANDED TO SIGNAL
	607	USH 10 EB	S16-7R	606	---	---	BANDED BELOW #606
	608	USH 10 EB	R1-1F	607	---	---	BANDED BELOW #607
	609	USH 10 WB	R3-4	606	---	---	BANDED TO BACK OF #606 ON SIGNAL
	610	USH 10 EB	R1-1F		1	---	BANDED TO SIGNAL
	611	USH 10 EB	S1-1	610	---	---	BANDED TO SIGNAL
	612	N 18TH ST	R1-1F		1	---	BANDED TO SIGNAL
	613	N 18TH ST	S1-1	612	---	---	BANDED TO SIGNAL
	614	USH 10 EB	R8-3		1	1	
	615	USH 10 EB	J4-2		1	---	USH 10, HWY 42 - BANDED TO LIGHT POLE
	616	USH 10 EB	R8-3		1	---	BANDED TO LIGHT POLE
	617	USH 10 WB	R8-3		1	1	
	618	USH 10 WB	J4-2		1	---	BANDED TO LIGHT POLE
	619	USH 10 WB	R2-1	618	---	---	BANDED TO LIGHT POLE BELOW 618
	620	N 18TH ST	S1-1		1	---	BANDED TO SIGNAL
	621	N 18TH ST	S16-7R	620	---	---	BANDED BELOW #620
	622	N 18TH ST	R1-1F	621	---	---	BANDED BELOW #621
	623	USH 10 WB	S1-1		1	---	BANDED TO SIGNAL
	624	USH 10 WB	S16-7R	623	---	---	BANDED BELOW #623
	625	USH 10 WB	R1-1F	624	---	---	BANDED BELOW #624
	626	USH 10 WB	R1-1F		1	---	BANDED TO SIGNAL
	627A	USH 10 WB	S1-1		1	---	BANDED TO LIGHT POLE
	627B	USH 10 WB	S16-9P	627A	---	---	BANDED TO LIGHT POLE BELOW #627A
	628	USH 10 WB	R3-7L	627B	---	---	BANDED TO POLE BELOW #627B
	629A	USH 10 WB	S1-1		1	1	
	629B	USH 10 WB	S16-9P	629A	---	---	
	703	USH 10 EB	JH-1		1	---	BANDED TO LIGHT POLE
	711	USH 10 EB	R10-15R		1	1	
	721	USH 10 EB	R8-3		1	1	
	723	N 17TH ST	R1-1		1	1	
	724	ELM ST	R1-1		1	1	
	729A	USH 10 WB	J22-1 MOD.		1	1	
	729B	USH 10 EB	R3-7L		1	---	BANDED TO LIGHT POLE
	734	USH 10 WB	JH-1		1	1	
	735	USH 10 WB	M6-1	734	---	---	BANDED BELOW #734
	739	USH 10 WB	R14-1 MOD.		1	1	
	741	N 17TH ST	R1-1		1	1	
	742	N 17TH ST	W14-2		1	1	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

REMOVAL OF TYPE II SIGNS AND SUPPORTS CONT.

ID	SIGN NO.	LOCATION	SIGN CODE	MOUNTED WITH SIGN NO.	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
PROJECT 1500-37-71 CONT.							
	801	USH 10 EB	S1-1		1	---	BANDED TO POWER POLE
	802	USH 10 EB	S16-9P	801	---	---	BANDED TO POWER POLE BELOW #801
	803	USH 10 EB	S1-1		1	---	BANDED TO LIGHT POLE
	804	USH 10 EB	S16-9P		1	---	BANDED TO LIGHT POLE BELOW #119A
	805	N 16TH ST	R1-1		1	1	
	807	USH 10 EB	S4-51		1	---	BANDED TO LIGHT POLE
	808	USH 10 EB	S4-51		1	1	
	809	USH 10 EB	R8-3	808	---	---	BANDED BELOW #808
	810	USH 10 EB	S1-1		1	1	
	811	USH 10 EB	S16-7L	810	---	---	BANDED BELOW #810
	812	USH 10 EB	S1-1		1	1	
	815	N 15TH ST	R1-1		1	1	
	816	USH 10 EB	S1-1		1	1	
	817	USH 10 EB	S16-7R	816	---	---	BANDED BELOW #816
	818	USH 10 EB	S1-1		1	1	
	819	USH 10 EB	S16-7L	818	---	---	BANDED BELOW #818
	821	N 14TH ST	R1-1		1	1	
	822	USH 10 EB	R8-3		1	1	
	824A	USH 10 EB	R14-1 MOD.		1	---	BANDED TO LIGHT POLE
	825	N 13TH ST	R1-1		1	1	
	827	USH 10 EB	R8-3		1	---	BANDED TO LIGHTPOLE BELOW
	828	USH 10 EB	S4-51		1	---	BANDED TO LIGHTPOLE
	830A	USH 10 EB	R14-1 MOD.		1	1	TRUCK ROUTE 1 BLOCK
	830B	USH 10 EB	R14-1		1	1	
	830C	USH 10 EB	M6-1	830A	---	---	BANDED BELOW #830A
	831	N 12TH ST	R5-1		1	1	
	832	N 12TH ST	R1-1		1	---	BANDED TO POWER POLE
	833	N 12TH ST	R3-5R MOD.		1	---	BANDED BELOW #832
	834	N 12TH ST	R7-2L		1	---	BANDED TO POWER POLE
	836	N 12TH ST	R5-1		1	1	
	837	N 12TH ST	M6-2	836	---	---	
	838	MENASHA AVE	R6-2R		1	1	
	840	MENASHA AVE	S1-1		1	1	
	841	MENASHA AVE	S16-9P	840	---	---	BANDED BELOW #840
	844	USH 10 EB	R8-3		1	1	
	845	USH 10 WB	R8-3		1	1	
	846	USH 10 WB	J4-2		1	---	BANDED TO LIGHT POLE
	848	N 16TH ST	R1-1		1	1	
	849	N 16TH ST	W14-2		1	1	
	852	USH 10 WB	R2-1		1	---	BANDED TO LIGHT POLE
	853	USH 10 WB	R8-3		1	1	
	855	N 15TH ST	R1-1		1	1	
	856	USH 10 WB	S1-1		1	1	
	857	USH 10 WB	S16-7L	856	---	---	BANDED BELOW #856

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

REMOVAL OF TYPE II SIGNS AND SUPPORTS CONT.

ID	SIGN NO.	LOCATION	SIGN CODE	MOUNTED WITH SIGN NO.	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
PROJECT 1500-37-71 CONT.							
	859	USH 10 WB	S1-1		1	1	
	862	N 14TH ST	R1-1		1	1	
	863	USH 10 WB	S1-1		1	1	
	864	USH 10 WB	S16-7L	863	---	---	BANDED BELOW #863
	865	USH 10 WB	S1-1		1	---	BANDED TO LIGHT POLE
	866	USH 10 WB	S16-7R	865	---	---	BANDED TO LIGHT POLE BELOW #865
	867	USH 10 WB	R8-3		1	1	
	868	USH 10 WB	S4-51		1	1	
	869	MENASHA AVE	S1-1		1	1	
	870	MENASHA AVE	S16-9P	869	---	---	BANDED BELOW #869
	871	MENASHA AVE	R8-3	870	---	---	BANDED BELOW #870
	872	MENASHA AVE	R1-1		1	1	
	873	MENASHA AVE	R7-2L		1	1	
	874	USH 10 WB	S1-1		1	1	
	875	USH 10 WB	S16-9P	874	---	---	BANDED BELOW #874
	876	N 12TH ST	R1-1		1	1	
	877	USH 10 WB	S1-1		1	1	
	878	USH 10 WB	S16-9P	877	---	---	BANDED BELOW #877
	879	USH 10 EB	J2-2		1	1	
	903	USH 10 EB	S1-1		1	---	BANDED TO LIGHT POLE
	904	USH 10 EB	S16-9P	903	---	---	BANDED TO LIGHT POLE BELOW #903
	905	USH 10 EB	R1-1F	904	---	---	BANDED TO LIGHT POLE BELOW #904
	906A	USH 10 EB	S1-1		1	---	BANDED TO SIGNAL
	906B	USH 10 EB	S16-9P	906A	---	---	BANDED TO SIGNAL BELOW 906A
	906C	USH 10 EB	R1-1F	906B	---	---	BANDED TO SIGNAL BELOW 906B
	907	USH 10 EB	J4-2		1	1	
	908	USH 10 EB	M1-93	907	---	---	BANDED BELOW #907
	909A	USH 10 EB	R14-1		1	---	BANDED TO SIGNAL
	909B	USH 10 EB	M6-1	909A	---	---	BANDED TO SIGNAL BELOW 909A
	909C	USH 10 EB	R6-2L	909A	---	---	BANDED TO SIGNAL BELOW 909B
	910	USH 10 EB	R6-2R	909A	---	---	BANDED TO SIGNAL
	912	USH 10 EB	R8-4		1	---	BANDED TO LIGHT POLE
	913	USH 10 EB	J1-1		1	---	OVERHEAD SIGN STRUCTURE
	914	N 10TH ST	S5-51		1	1	
	915	N 10TH ST	R5-2	914	---	---	BANDED BELOW #914
	916	N 10TH ST	R1-1		1	1	
	925	USH 10 WB	S4-51		1	---	OVERHEAD SIGN STRUCTURE
	926	USH 10 WB	S4-51		1	1	
	927	N 9TH ST	R1-1		1	1	
	930	USH 10 EB	J12-1		1	---	OVERHEAD SIGN STRUCTURE
	931	USH 10 EB	R8-3		1	1	
	932	USH 10 EB	R3-50L	930	---	---	OVERHEAD SIGN STRUCTURE
	933	USH 10 EB	R3-50A	930	---	---	OVERHEAD SIGN STRUCTURE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

REMOVAL OF TYPE II SIGNS AND SUPPORTS CONT.

ID	SIGN NO.	LOCATION	SIGN CODE	MOUNTED WITH SIGN NO.	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
PROJECT 1500-37-71 CONT.							
	934	USH 10 EB	R3-50A	930	---	---	OVERHEAD SIGN STRUCTURE
	935	USH 10 EB	R3-1		1	---	BANDED TO LIGHT POLE
	936	USH 10 EB	R1-1F	935	---	---	BANDED TO LIGHT POLE
	937	N 8TH ST	R5-1		1	---	BANDED TO SIGNAL
	938	N 8TH ST	R1-1F	937	---	---	BANDED TO SIGNAL
	951	USH 10 WB	J4-2		1	---	BANDED TO POWER POLE
	952	USH 10 WB	J22-1 MOD.		1	---	BANDED BELOW #951
	953	USH 10 WB	R8-3		1	---	BANDED BELOW #952
	956	USH 10 WB	S1-1	903	---	---	BANDED TO SIGNAL
	957	USH 10 WB	S16-7R	956	---	---	BANDED TO SIGNAL BELOW #856
	958	N 11TH ST	R1-1F		1	---	BANDED TO SIGNAL
	959 A	USH 10 WB	S1-1		1	---	BANDED TO SIGNAL BELOW #182B
	959 B	USH 10 WB	S16-7R	959A	---	---	
	959 C	USH 10 WB	R1-1F	959A	---	---	
	961	USH 10 WB	R1-1F		1	---	BANDED TO SIGNAL
	963	USH 10 EB	JV		1	1	
	964	USH 10 EB	JV	963	---	---	BANDED BELOW #963
	965	USH 10 EB	JV	964	---	---	BANDED BELOW #964
	968	USH 10 WB	R3-50L		1	---	OVERHEAD SIGN STRUCTURE
	969	USH 10 WB	R3-50A	968	---	---	OVERHEAD SIGN STRUCTURE
	970	USH 10 WB	R3-60R	968	---	---	OVERHEAD SIGN STRUCTURE
	971	USH 10 WB	R8-3		1	---	BANDED TO LIGHT POLE
	973A	USH 10 WB	J1-1		1	1	
	973B	USH 10 WB	M4-20L	973A	---	---	BANDED BELOW #973A
	974	USH 10 WB	R8-3		1	1	
	975	USH 10 WB	J2-3		1	---	OVERHEAD SIGN STRUCTURE
	976	USH 10 WB	S4-51	975	---	---	OVERHEAD SIGN STRUCTURE
	977	N 9TH ST	R1-1		1	1	
	982	USH 10 WB	M2-1		1	1	
	983	USH 10 WB	J4-1	982	---	---	BANDED BELOW #982
	984A	USH 10 WB	S1-1		1	1	
	984B	USH 10 WB	S16-9P	984	---	---	BANDED BELOW #984
	986	USH 10 WB	R8-3	985	---	---	BANDED BELOW #985
	987	USH 10 WB	R1-1F		1	---	BANDED TO SIGNAL
	988	USH 10 WB	R3-4	987	---	---	BANDED TO SIGNAL
	989	USH 10 WB	R3-2	988	---	---	BANDED TO SIGNAL
	990	N 8TH ST	J12-1		1	---	BANDED TO SIGNAL
	991	N 8TH ST	R1-1F	990	---	---	BANDED TO SIGNAL
	992	N 8TH ST	R1-1F		1	---	BANDED TO SIGNAL
	1001	N 8TH ST	J4-1	---	1	---	BANDED TO SIGNAL
	1002	N 8TH ST	R1-1F	---	1	---	BANDED TO SIGNAL
	1003	USH 10 WB	J2-3	---	1	2	
	1004	USH 10 WB	R1-1F	---	1	---	BANDED TO SIGNAL
	1005	USH 10 WB	R3-4	1004	---	---	BANDED TO SIGNAL

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

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REMOVAL OF TYPE II SIGNS AND SUPPORTS CONT.

ID	SIGN NO.	LOCATION	SIGN CODE	MOUNTED WITH SIGN NO.	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
PROJECT 1500-37-71 CONT.							
	1006	USH 10 WB	R3-1	1005	---	---	BANDED TO SIGNAL
	1009A	N 8TH ST	R1-1F	---	1	---	BANDED TO SIGNAL
	1009B	USH 10 EB	J2-1	---	1	---	BANDED TO LIGHT POLE
	1010	USH 10 EB	R3-1	---	1	---	BANDED TO SIGNAL
	1109	N 8TH ST	R1-1F	---	1	---	BANDED TO SIGNAL
	1111	USH 10 EB	R3-1	---	1	---	BANDED TO SIGNAL
	1112A	USH 10 EB	J4-1	---	1	1	
	1500-37-71 PROJECT SUBTOTAL				6	1	
	PROJECT TOTALS				146	78	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

REMOVAL OF TYPE II SIGN AND SUPPORTS CONT.

ID	SIGN NO.	LOCATION	SIGN CODE	MOUNTED WITH SIGN NO.	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
PROJECT 4570-12-71							
	1011	STH 42 NB	R2-1	---	1	1	25 MPH
	1115	LINCOLN BLVD	R1-1	---	1	1	
	1116	LINCOLN BLVD	R1-1	---	1	1	
	1118	N 6TH ST	R1-1	---	1	1	
	1119	STH 42 NB	W11-3	---	1	1	
	1120	STH 42 NB	R8-3	1119	---	---	BANDED BELOW #1119
	1121	STH 42 NB	R2-1	---	1	---	25 MPH - BANDED TO LIGHT POLE
	1123	STH 42 NB	J4-2	---	1	1	HWY 42, LAKE MICHIGAN CIRCLE TOUR, SEE PLAN SHEET
	1124	STH 42 NB	R8-3	1123	---	---	BANDED BELOW #1123
	1138	STH 42 SB	R3-2	---	1	---	BANDED TO LIGHT POLE
	1139	STH 42 SB	R8-3	---	1	1	
	1141	LINCOLN BLVD	R1-1	---	1	1	
	1142	LINCOLN BLVD	R1-1	---	1	1	
	1144	STH 42 SB	J4-2	---	1	1	HWY 42, IH 43, SEE PLAN SHEET
	1146	STH 42 SB	J1-2	---	1	---	USH 10, CTH B, SEE PLAN SHEET - BANDED TO LIGHT POLE
	1148	STH 42 SB	R8-3	---	1	1	
	1149	STH 42 SB	R2-1	---	1	1	25 MPH
	1150	N 6TH ST	R1-1	---	1	1	
	1151	STH 42 SB	J4-1	---	1	1	
	1152	STH 42 SB	R8-3	1151	---	---	BANDED BELOW #1151
	1153	N 5TH ST	R1-1	---	1	1	
	1201	STH 42 NB	R2-1	---	1	1	35 MPH
	1202	STH 42 SB	R2-1	---	1	---	25 MPH - BANDED TO LIGHT POLE
	1203	STH 42 SB	R2-1	---	1	1	25 MPH
	1300	STH 42 NB	R8-3	---	1	1	
	1301	STH 42 NB	R2-1	---	1	1	35 MPH
	1302	STH 42 NB	J2-1	---	1	1	
	1303	STH 42 NB	D1-1	---	1	1	MARITIME DR
	1304	STH 42 NB	R8-3	1303	---	---	BANDED BELOW #1303
	1305	MARITIME DR	R1-2	---	1	1	
	1306	MARITIME DR	R3-2	---	1	1	
	1307	MARITIME DR	R6-2R	---	1	1	
	1308	MARITIME DR	R8-3	---	1	1	
	1309	MARITIME DR	R7-2A	1308	---	---	BANDED BELOW #1308
	1310	MARITIME DR	R8-3	---	1	1	
	1311	MARITIME DR	R3-8E	---	1	1	
	1312	MARITIME DR	W11-2	---	1	1	
	1313	MARITIME DR	W11-2	---	1	1	
	1314	STH 42 NB	R5-1	---	1	1	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

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REMOVAL OF TYPE II SIGN AND SUPPORTS CONT.

ID	SIGN NO.	LOCATION	SIGN CODE	MOUNTED WITH SIGN NO.	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
PROJECT 4570-12-71 CONT.							
	1315	MARITIME DR	M1-6	---	1	1	
	1316	MARITIME DR	W1-6	1315	---	---	BANDED BELOW #1315
	1317	MARITIME DR	JH-1	---	1	---	BANDED ON LIGHT POLE
	1319	MARITIME DR	R1-1	---	1	1	
	1320	MARITIME DR	R1-1	---	1	1	
	1321	MARITIME DR	R1-2	---	1	1	
	1322	STH 42 NB	W4-1R	---	1	1	HWY 42, LAKE MICHIGAN CIRCLE TOUR, SEE PLAN SHEET
	1323	STH 42 NB	J4-2	---	1	1	
	1324	STH 42 SB	W11-3	---	1	1	
	1325	STH 42 SB	R8-3	---	1	---	BANDED BELOW #1324
	1326	STH 42 NB	R2-1	---	1	1	35 MPH
	1327	STH 42 SB	J4-2	---	1	1	
	1328	STH 42 SB	R1-2	---	1	1	
	1329	STH 42 NB	R4-7	---	1	---	BANDED TO LIGHT POLE
	1330	STH 42 SB	R4-7	---	1	1	
	1331	MARITIME DR	R6-2L	---	1	1	
	1332	STH 42 SB	R1-1	---	1	1	
	1333	STH 42 SB	R1-1	---	1	1	
	1334	STH 42 SB	J12-1	---	1	1	
	1403	STH 42 NB	R1-1	---	1	1	
	1412	MARITIME DR	R4-7	---	1	1	
	1502	STH 42 SB	R2-1	---	1	---	BANDED TO POWER POLE
	1503	STH 42 SB	J2-1	---	1	1	HWY 42, SEE PLAN SHEET
	1505	STH 42 SB	R2-1	---	1	1	35 MPH
		PROJECT TOTALS			57	49	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

ERECTION OF TYPE II SIGNS AND SUPPORTS

ID	SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0622 POSTS WOOD 4x6x22 EACH	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
PROJECT 1500-47-71																
	101	USH 10 WB	R4-7	24" X 30"	5.00	---	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	102	USH 10 EB	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	103	USH 10 EB	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	104	USH 10 EB	J13-1	24" X 45"	7.50	---	---	---	---	1	---	---	---	---	---	
	106	N RAPIDS RD - S. OF USH 10	R4-7	24" X 30"	5.00	---	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	107	N RAPIDS RD - S. OF USH 10	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	108	N RAPIDS RD - S. OF USH 10	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	109	N RAPIDS RD - S. OF USH 10	R5-1	30" X 30"	6.25	---	---	---	---	---	---	---	---	---	---	MOUNT TO BACKSIDE OF #110
	110B	N RAPIDS RD - S. OF USH 10	J13-2	48" X 45"	15.00	---	---	---	---	1	---	---	---	---	---	HWY 42 & USH 10, SEE PLAN SHEET
	111	USH 10 EB	J4-2	48" X 36"	12.00	---	---	---	1	---	---	---	---	---	---	USH 10 & HWY 42, SEE PLAN SHEET
	112	USH 10 EB	W4-1R	36" X 36"	---	---	9.00	---	---	---	1	---	---	---	---	
	113	USH 10 EB	R8-3	24" X 24"	4.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #112
	115	USH 10 EB	R1-2	36" X 31"	3.88	---	---	---	1	---	---	---	---	---	---	
	119	USH 10 EB	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	35 MPH
	120	USH 10 WB	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	121	N RAPIDS RD - N. OF USH 10	R5-1	30" X 30"	6.25	---	---	---	---	---	---	---	---	---	---	MOUNT TO BACKSIDE OF #122
	122B	N RAPIDS RD - N. OF USH 10	J13-2	48" X 45"	15.00	---	---	---	---	1	---	---	---	---	---	HWY 42 & USH 10, SEE PLAN SHEET
	123	N RAPIDS RD - N. OF USH 10	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	124	N RAPIDS RD - N. OF USH 10	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	125	N RAPIDS RD - N. OF USH 10	R4-7	24" X 30"	5.00	---	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	126	USH 10 WB	R1-2	36" X 31"	3.88	---	---	---	1	---	---	---	---	---	---	
	127	USH 10 WB	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	128	USH 10 WB	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	129	USH 10 WB	R4-7	24" X 30"	5.00	---	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	130B	USH 10 WB	J13-1	24" X 45"	7.50	---	---	---	---	---	1	---	---	---	---	CTH R, SEE PLAN SHEET
	131	USH 10 WB	M6-6	21" X 21"	3.07	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #132
	132	USH 10 WB	R14-1	24" X 18"	3.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #134
	133	USH 10 WB	R8-3	24" X 24"	4.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #134
	134	USH 10 WB	D1-1	72" X 15"	7.50	---	---	---	---	---	2	---	---	---	---	ROCKWOOD ->
	135	USH 10 WB	W3-3	36" X 36"	---	---	9.00	---	---	1	---	---	---	---	---	
	136B	USH 10 WB	J4-2	48" X 36"	12.00	---	---	---	---	1	---	---	---	---	---	
	201	N 40TH ST	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	---	---	
	202	USH 10 EB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	203	USH 10 EB	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	206	USH 10 EB	W11-2	30" X 30"	---	---	6.25	---	---	1	---	---	---	---	---	
	207	USH 10 EB	W16-7L	24" X 12"	---	---	2.00	---	---	---	---	---	---	---	---	MOUNT BELOW #206
	209	GLENVIEW DR	R1-1	36" X 36"	7.46	---	---	---	1	---	---	---	---	---	---	
	211	USH 10 EB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	212A	USH 10 EB	R10-64	30" X 36"	7.50	---	---	---	1	---	---	---	---	---	---	
	212B	USH 10 EB	R10-64F	42" X 24"	7.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW 212A
	214	W CRESCENT DR	R1-1	36" X 36"	7.46	---	---	1	---	---	---	---	---	---	---	
	215	USH 10 EB	R2-1	24" X 30"	5.00	---	---	---	---	1	---	---	---	---	---	
	216	USH 10 EB	R8-3	24" X 24"	4.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #215

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

ERECTION OF TYPE II SIGNS AND SUPPORTS CONT.

ID	SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0622 POSTS WOOD 4x6x22 EACH	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
PROJECT 1500-47-71 CONT.																
	220	USH 10 WB	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	222	USH 10 WB	J1-1	24" X 39"	6.50	---	---	---	---	1	---	---	---	---	---	
	223	USH 10 WB	R8-3	24" X 24"	4.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #222
	224	USH 10 EB	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	225	USH 10 WB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	229	USH 10 WB	R4-7	24" X 30"	5.00	---	---	--	1	---	---	---	---	---	---	
	230	USH 10 WB	W11-2	30" X 30"	---	---	6.25	---	---	---	---	---	---	---	---	MOUNT TO POWER POLE
	231	USH 10 WB	W16-7L	24" X 12"	---	---	2.00	---	---	---	---	---	---	---	---	MOUNT TO POWER POLE
	233	USH 10 WB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	234	USH 10 WB	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	301	USH 10 EB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	302	E CRESENT DR	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	---	---	
	303	USH 10 EB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	308	USH 10 WB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	309	USH 10 WB	R4-7	24" X 30"	5.00	---	---	---	---	---	---	---	---	---	---	MOUNT TO LIGHT POLE
		PROJECT TOTALS			262.67	59.68	34.50	1	19	10	4	0	0	0	0	
PROJECT 1500-37-71																
	306	USH 10 EB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	311	USH 10 WB	R2-1	24" X 30"	5.00	---	---	---	---	1	---	---	---	---	---	
	312	USH 10 WB	R8-3	24" X 24"	4.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #311
	316	FLEETWOOD DR	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	---	---	
	317	USH 10 EB	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	318	USH 10 WB	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	401	USH 10 EB	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	402	USH 10 EB	R2-1	24" X 30"	5.00	---	---	---	---	---	---	---	---	---	---	MOUNT TO POWER POLE
	403	USH 10 WB	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	404	USH 10 WB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	501	USH 10 WB	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	502	N 23RD ST	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	---	---	
	504	USH 10 EB	R4-7	24" X 30"	5.00	---	---	---	---	---	---	---	---	---	---	MOUNT TO LIGHT POLE
	506	USH 10 EB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	510	USH 10 WB	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	511	MENCHL DR	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	---	---	
	514	N 21ST ST	R1-1	36" X 36"	7.46	---	---	---	---	---	---	---	---	---	---	MOUNT TO POWER POLE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

ERECTION OF TYPE II SIGNS AND SUPPORTS CONT.

ID	SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0622 POSTS WOOD 4x6x22 EACH	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
PROJECT 1500-37-71 CONT.																
	515	USH 10 EB	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	516	USH 10 EB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	518	USH 10 WB	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	519	USH 10 EB	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	520	N 20TH ST	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	---	---	
	523	N 23RD ST	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	---	---	
	525	USH 10 WB	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	531	USH 10 WB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	532	USH 10 WB	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	533	N 21ST ST	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	---	---	
	534	USH 10 WB	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	536	USH 10 WB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	538	PARK ROW BLVD	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	---	---	
	539	PARK ROW BLVD	R5-1	30" X 30"	7.46	---	---	---	1	---	---	---	---	---	---	
	540	PARK ROW BLVD	R6-2L	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	541	PARK ROW BLVD	R6-2R	24" X 30"	5.00	---	---	---	---	---	---	---	---	---	---	MOUNT ON BACKSIDE OF SIGN 540
	701	USH 10 EB	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	703	USH 10 EB	JH-1	24" X 24"	4.00	---	---	---	---	---	---	---	---	---	---	MOUNT TO LIGHT POLE
	704	USH 10 EB	M6-1	21" X 21"	3.07	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #703
	705	USH 10 EB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	706	USH 10 EB	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	707	USH 10 EB	R3-20L	24" X 36"	6.00	---	---	---	---	1	---	---	---	---	---	
	708	USH 10 EB	W3-3	36" X 36"	---	---	9.00	---	---	1	---	---	---	---	---	
	709A	USH 10 EB	S1-1	36" X 36"	---	---	6.75	---	---	---	1	---	---	---	---	
	709B	USH 10 EB	S16-9P	30" X 18"	---	---	3.75	---	---	---	---	---	---	---	---	MOUNT BELOW #709A
	710	USH 10 EB	R2-6P	24" X 18"	---	---	3.00	---	---	---	---	---	---	---	---	MOUNT BELOW #709B
	711	USH 10 EB	R10-15R	30" X 30"	6.25	---	---	---	1	---	---	---	---	---	---	
	712	USH 10 WB	R4-7	24" X 30"	5.00	---	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	713	USH 10 WB	R3-4	24" X 24"	4.00	---	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	714	USH 10 EB	S1-1	36" X 36"	---	---	9.00	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	715	USH 10 EB	S16-7R	30" X 18"	---	---	3.75	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	716	USH 10 EB	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	717	USH 10 EB	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	718	USH 10 EB	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	719	N 18TH ST	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	721	USH 10 EB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	722	USH 10 EB	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	25 MPH
	723	N 17TH ST	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	---	---	
	724	ELM ST	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	---	---	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

ERECTION OF TYPE II SIGNS AND SUPPORTS CONT.

ID	SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0622 POSTS WOOD 4x6x22 EACH	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
PROJECT 1500-37-71 CONT.																
	725	USH 10 EB	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	726	USH 10 WB	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	728	USH 10 WB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	730	N 18TH ST	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	731	USH 10 WB	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	732	USH 10 WB	R4-7	24" X 30"	5.00	---	---	---	---	1	---	---	---	---	---	
	733	USH 10 WB	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	---	---	---	MOUNT BELOW #732
	734	USH 10 WB	JH-1	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	735	USH 10 WB	M6-1	21" X 21"	3.07	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #734
	736	USH 10 WB	R3-7L	30" X 30"	6.25	---	---	---	1	---	---	---	---	---	---	
	741	N 17TH ST	R1-1	36" X 36"	7.46	---	---	---	---	---	1	---	---	---	---	
	742	N 17TH ST	W14-2	30" X 30"	---	---	6.25	---	---	---	1	---	---	---	---	
	805	N 16TH ST	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	---	---	
	806	USH 10 EB	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	808	USH 10 EB	S4-51	24" X 48"	8.00	---	---	---	---	---	1	---	---	---	---	
	809	USH 10 EB	R8-3	24" X 24"	4.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #808
	810	USH 10 EB	S1-1	36" X 36"	---	---	6.75	---	---	---	---	---	---	---	---	INSTALL ON RAPID FLASHING BEACON BASE AND POLE
	811	USH 10 EB	S16-7L	30" X 18"	---	---	3.75	---	---	---	---	---	---	---	---	MOUNT BELOW #810
	812	USH 10 EB	S1-1	36" X 36"	---	---	6.75	---	---	---	---	---	---	---	---	INSTALL ON RAPID FLASHING BEACON BASE AND POLE
	813	USH 10 EB	S16-7R	30" X 18"	---	---	3.75	---	---	---	---	---	---	---	---	MOUNT BELOW #812
	814	USH 10 WB	R4-7	24" X 30"	5.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #860
	815	N 15TH ST	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	---	---	
	818	USH 10 EB	S1-1	36" X 36"	---	---	6.75	---	---	1	---	---	---	---	---	
	819	USH 10 EB	S16-7L	30" X 18"	---	---	3.75	---	---	---	---	---	---	---	---	MOUNT BELOW #818
	820	USH 10 EB	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	821	N 14TH ST	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	---	---	
	822	USH 10 EB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	823	USH 10 EB	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	824B	USH 10 EB	R14-1	24" X 18"	3.00	---	---	---	1	---	---	---	---	---	---	
	824C	USH 10 EB	M6-1	21" X 21"	3.07	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #824B
	825	N 13TH ST	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	---	---	
	826	USH 10 EB	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	827	USH 10 EB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	829A	USH 10 EB	M2-1	21" X 15"	2.19	---	---	---	1	---	---	---	---	---	---	
	829B	USH 10 EB	J4-1	24" X 36"	6.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #829A
	830B	USH 10 EB	R14-1	24" X 18"	3.00	---	---	---	1	---	---	---	---	---	---	
	830C	USH 10 EB	M6-1	21" X 21"	3.07	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #830B

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

ERECTION OF TYPE II SIGNS AND SUPPORTS CONT.

ID	SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0622 POSTS WOOD 4x6x22 EACH	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
PROJECT 1500-37-71 CONT.																
	835	N 12TH ST	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	---	---	
	838	MENASHA AVE	R6-2R	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	839	MENASHA AVE	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	---	---	
	844	USH 10 EB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	847	USH 10 WB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	848	N 16TH ST	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	---	---	
	849	N 16TH ST	W14-2	30" X 30"	---	---	6.25	---	---	1	---	---	---	---	---	
	850	USH 10 WB	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	851	USH 10 WB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	854	USH 10 WB	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	855	N 15TH ST	R1-1	36" X 36"	7.46	---	---	---	1	---	---	---	---	---	---	
	856	USH 10 WB	S1-1	36" X 36"	---	---	6.75	---	---	---	---	---	---	---	---	INSTALL ON RAPID FLASHING BEACON BASE AND POLE
	857	USH 10 WB	S16-7I	30" X 18"	---	---	3.75	---	---	---	---	---	---	---	---	MOUNT BELOW #856
	858	USH 10 EB	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	859	USH 10 WB	S1-1	36" X 36"	---	---	6.75	---	---	---	---	---	---	---	---	INSTALL ON RAPID FLASHING BEACON BASE AND POLE
	860	USH 10 WB	S16-7R	30" X 18"	---	---	3.75	---	---	---	---	---	---	---	---	MOUNT BELOW #859
	861	USH 10 WB	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	862	N 14TH ST	R1-1	36" X 36"	7.46	---	---	---	1	---	---	---	---	---	---	
	863	USH 10 WB	S1-1	36" X 36"	---	---	6.75	---	---	1	---	---	---	---	---	
	864	USH 10 WB	S16-7L	30" X 18"	---	---	3.75	---	---	---	---	---	---	---	---	MOUNT BELOW #863
	867	USH 10 WB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	868	USH 10 WB	S4-51	24" X 48"	8.00	---	---	---	---	1	---	---	---	---	---	
	869	MENASHA AVE	S1-1	36" X 36"	---	---	6.75	---	---	---	1	---	---	---	---	
	870	MENASHA AVE	S16-9P	30" X 18"	---	---	3.75	---	---	---	---	---	---	---	---	MOUNT BELOW #869
	871	MENASHA AVE	R8-3	24" X 24"	4.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #870
	876	N 12TH ST	R1-1	36" X 36"	7.46	---	---	---	1	---	---	---	---	---	---	
	877	USH 10 WB	S1-1	36" X 36"	---	---	6.75	---	---	1	---	---	---	---	---	
	878	USH 10 WB	S16-9P	30" X 18"	---	---	3.75	---	---	---	---	---	---	---	---	MOUNT BELOW #877
	879	USH 10 EB	J2-2	48" X 57"	19.00	---	---	---	---	1	---	---	---	---	---	
	880	USH 10 EB	R3-20L	24" X 36"	6.00	---	---	---	---	1	---	---	---	---	---	
	881	MENASHA AVE	R1-1	36" X 36"	7.46	---	---	---	1	---	---	---	---	---	---	
	901A	USH 10 EB	R4-7	24" X 30"	5.00	---	---	---	---	---	---	---	---	---	---	MOUNT TO LIGHT POLE
	901B	USH 10 EB	JV	24" X 93"	15.50	---	---	---	---	---	1	---	---	---	---	
	902	USH 10 EB	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	---	---	---	MOUNT TO LIGHT POLE
	906A	USH 10 EB	S1-1	36" X 36"	---	---	6.75	---	---	---	---	---	---	---	---	MOUNT TO LIGHT POLE
	906B	USH 10 EB	S16-7L	30" X 18"	---	---	3.75	---	---	---	---	---	---	---	---	MOUNT TO LIGHT POLE BELOW #906A
	906C	USH 10 EB	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	---	---	---	MOUNT TO LIGHT POLE BELOW #906B
	907	N 11TH ST	J4-2	48" X 36"	12.00	---	---	---	---	1	---	---	---	---	---	
	908	N 11TH ST	M1-93	24" X 24"	4.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #907
	909A	USH 10 EB	R14-1	24" X 18"	2.63	---	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	909B	USH 10 EB	M6-1	21" X 21"	3.07	---	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL BELOW #909B
	909C	USH 10 EB	R6-2L	24" X 30"	5.00	---	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL BELOW #909C

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

ERECTION OF TYPE II SIGNS AND SUPPORTS CONT.

ID	SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0622 POSTS WOOD 4x6x22 EACH	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
PROJECT 1500-37-71 CONT.																
	910	USH 10 EB	R6-2R	24" X 30"	5.00	---	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	911	USH 10 EB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	913	USH 10 EB	J1-1	24" X 39"	6.50	---	---	---	---	---	---	---	---	---	---	OVERHEAD SIGN STRUCTURE
	914	N 10TH ST	S4-51	24" X 48"	8.00	---	---	---	---	---	1	---	---	---	---	
	915	N 10TH ST	R5-2	24" X 24"	4.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #914
	916	N 10TH ST	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	---	---	
	919	USH 10 EB	S1-1	36" X 36"	---	---	6.75	---	---	---	---	---	---	---	---	INSTALL ON RAPID FLASHING BEACON BASE AND POLE
	920	USH 10 EB	S16-7R	30" X 18"	---	---	3.75	---	---	---	---	---	---	---	---	MOUNT BELOW #919
	921	USH 10 EB	R3-7L	30" X 30"	6.25	---	---	---	1	---	---	---	---	---	---	
	922	USH 10 WB	R4-7	24" X 30"	5.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #981
	923	USH 10 EB	S1-1	36" X 36"	---	---	6.75	---	---	---	---	---	---	---	---	INSTALL ON RAPID FLASHING BEACON BASE AND POLE
	924	USH 10 EB	S16-7L	30" X 18"	---	---	3.75	---	---	---	---	---	---	---	---	MOUNT BELOW #923
	926	N 9TH ST	S4-51	24" X 48"	8.00	---	---	---	---	1	---	---	---	---	---	
	927	N 9TH ST	R1-1	36" X 36"	7.49	---	---	---	---	1	---	---	---	---	---	
	928	USH 10 EB	R3-7L	30" X 30"	6.25	---	---	---	---	1	---	---	---	---	---	
	929	USH 10 EB	R4-7	24" X 30"	5.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #928
	930	USH 10 EB	J12-1	24" X 45"	7.50	---	---	---	---	---	---	---	---	---	---	OVERHEAD SIGN STRUCTURE
	931	USH 10 EB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	954	USH 10 WB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	955	USH 10 WB	JV	24" X 72"	12.00	---	---	---	---	---	1	---	---	---	---	
	958	N 11TH ST	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	959A	USH 10 WB	S1-1	36" X 36"	---	---	6.75	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	959B	USH 10 WB	S16-7L	30" X 18"	---	---	3.75	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL BELOW #959A
	959C	USH 10 WB	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL BELOW #959B
	960	USH 10 EB	R4-7	24" X 30"	5.00	---	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	961	USH 10 WB	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL BELOW #960
	962	USH 10 WB	JV	24" X 117"	19.50	---	---	---	---	---	---	1	---	---	---	
	966	USH 10 WB	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	967	USH 10 WB	J22-1	24" X 57"	9.50	---	---	---	---	1	---	---	---	---	---	
	972	USH 10 WB	JV	24" X 93"	15.50	---	---	---	---	---	1	---	---	---	---	
	973A	USH 10 WB	J4-1	24" X 36"	6.00	---	---	---	---	1	---	---	---	---	---	
	973B	USH 10 WB	M4-20L	24" X 24"	4.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #973A
	974	USH 10 WB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	976	USH 10 WB	S4-51	24" X 48"	8.00	---	---	---	---	1	---	---	---	---	---	
	977	N 9TH ST	R1-1	36" X 36"	7.49	---	---	---	---	1	---	---	---	---	---	
	978	USH 10 WB	S1-1	36" X 36"	---	---	6.75	---	---	---	---	---	---	---	---	INSTALL ON RAPID FLASHING BEACON BASE AND POLE
	979	USH 10 WB	S16-7L	30" X 18"	---	---	3.75	---	---	---	---	---	---	---	---	MOUNT BELOW #878
	980	USH 10 WB	S1-1	36" X 36"	---	---	6.75	---	---	---	---	---	---	---	---	INSTALL ON RAPID FLASHING BEACON BASE AND POLE
	981	USH 10 WB	S16-7R	30" X 18"	---	---	3.75	---	---	---	---	---	---	---	---	MOUNT BELOW #980
	982	USH 10 WB	M2-1	21" X 15"	2.19	---	---	---	---	1	---	---	---	---	---	
	983	USH 10 WB	J4-1	24" X 36"	6.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #982

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

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ERECTION OF TYPE II SIGNS AND SUPPORTS CONT.

ID	SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0622 POSTS WOOD 4x6x22 EACH	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
PROJECT 1500-37-71 CONT.																
	984A	USH 10 WB	S1-1	36" X 36"	---	---	6.75	---	---	---	1	---	---	---	---	
	984B	USH 10 WB	S16-9P	30" X 18"	---	---	3.75	---	---	---	---	---	---	---	---	MOUNT BELOW #984A
	985	USH 10 WB	R2-6P	24" X 18"	---	---	3.00	---	---	---	---	---	---	---	---	MOUNT BELOW #984B
	986	USH 10 WB	R8-3	24" X 24"	4.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #985
	1100	USH 10 EB	R3-1	24" X 24"	4.00	---	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	1101	USH 10 EB	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	1102	N 8TH ST	R5-1	30" X 30"	6.25	---	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	1103	N 8TH ST	J2-2	48" X 57"	19.00	---	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL BELOW #1132
	1104	USH 10 EB	J2-1	24" X 57"	9.50	---	---	---	---	1	---	---	---	---	---	
	1109	N 8TH ST	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL BELOW #110
	1110	N 8TH ST	R5-1	30" X 30"	6.25	---	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	1111	USH 10 EB	R3-1	24" X 24"	4.00	---	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	1112A	USH 10 EB	J4-1	24" X 36"	6.00	---	---	---	---	---	1	---	---	---	---	
	1112B	USH 10 EB	M1-93	24" X 24"	4.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #1112A
	1113	USH 10 EB	R8-3	24" X 24"	4.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #1112B
	1127	USH 10 EB	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	1128	USH 10 EB	R3-4	24" X 24"	4.00	---	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	1129	USH 10 EB	R3-2	24" X 24"	4.00	---	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	1130	USH 10 EB	R4-7	24" X 30"	5.00	---	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	1131	N 8TH ST	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	1132	N 8TH ST	J4-1	24" X 36"	6.00	---	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	1133	USH 10 WB	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	PROJECT TOTALS				837.38	126.82	208.25	0	59	38	11	1	0	0	0	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

ERECTION OF TYPE II SIGNS AND SUPPORTS CONT.

ID	SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0622 POSTS WOOD 4x6x22 EACH	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
PROJECT 4570-12-71																
	1114	STH 42 NB	R6-2R	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	1115	LINCOLN BLVD	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	---	---	
	1116	LINCOLN BLVD	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	---	---	
	1117	LINCOLN BLVD	R5-1	30" X 30"	6.25	---	---	---	---	---	---	---	---	---	---	MOUNT TO BACKSIDE #1116
	1118	N 6TH ST	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	---	---	
	1120	STH 42 NB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	1122	STH 42 NB	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	1126	STH 42 NB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	MOUNTBELOW #1125
	1134	STH 42 SB	J12-1	24" X 45"	7.50		---	---	---	1	---	---	---	---	---	
	1135	STH 42 SB	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	1136	STH 42 SB	R3-4	24" X 24"	4.00	---	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	1137	STH 42 SB	R3-2	24" X 24"	4.00	---	---	---	---	---	---	---	---	---	---	MOUNT TO SIGNAL
	1138	STH 42 SB	R3-2	24" X 24"	4.00	---	---	---	---	---	---	---	---	---	---	MOUNT TO LIGHT POLE
	1139	STH 42 SB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	1140	STH 42 SB	W3-3	36" X 36"	---	---	9.00	---	---	1	---	---	---	---	---	
	1141	LINCOLN BLVD	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	---	---	
	1142	LINCOLN BLVD	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	---	---	
	1143	LINCOLN BLVD	R5-1	30" X 30"	6.25	---	---	---	---	---	---	---	---	---	---	MOUNT TO BACKSIDE #264
	1145	STH 42 SB	R6-2R	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	1147	STH 42 SB	JV	24" X 63"	10.50	---	---	---	---	---	1	---	---	---	---	
	1150	N 6TH ST	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	---	---	
	1152	STH 42 SB	R8-3	24" X 24"	4.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #1151
	1153	N 5TH ST	R1-1	36" X 36"	7.46	---	---	---	---	1	---	---	---	---	---	
	1154	STH 42 SB	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	25 MPH
	1201	STH 42 NB	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	35 MPH
	1203	STH 42 SB	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	25 MPH
	1300	USH 10EB	R8-3	24" X 24"	4.00	---	---	---	---	1	---	---	---	---	---	
	1317	MARITIME DR NB	JH-1	24" X 45"	7.50	---	---	---	1	---	---	---	---	---	---	
	1401	STH 42 NB	W2-6	30" X 30"	---	---	6.25	---	---	1	---	---	---	---	---	
	1402	STH 42 NB	W13-1	18" X 18"	---	---	2.25	---	---	---	---	---	---	---	---	MOUNT BELOW #1401
	1403	STH 42 NB	R1-1	36" X 36"	7.46	---	---	---	1	---	---	---	---	---	---	
	1404	STH 42 NB	J2-1 MOD	24" X 81"	13.50	---	---	---	---	---	1	---	---	---	---	HWY 42, SEE PLAN SHEET
	1405	STH 42 NB	W3-2	36" X 36"	--	---	9.00	---	---	1	---	---	---	---	---	
	1406	WALDO BLVD EB	R6-1R	36" X 12"	3.00	---	---	2	---	---	---	---	---	---	---	
	1407	WALDO BLVD EB	R6-48	60" X 24"	10.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #1406
	1408	STH 42 SB	R1-2	36" X 31"	3.88	---	---	---	---	1	---	---	2	---	---	
	1409	STH 42 SB	R1-54	24" X 15"	2.50	---	---	---	---	---	---	---	---	---	---	
	1410	MARITIME DR SB	D1-1	84"X 15"	8.75	---	---	---	2	---	---	---	---	---	---	
	1411	MARITIME DR SB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	1412	MARITIME DR NB	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	1413	MARITIME DR SB	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

ERECTION OF TYPE II SIGNS AND SUPPORTS CONT.

ID	SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0622 POSTS WOOD 4x6x22 EACH	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
PROJECT 4570-12-71 CONT.																
	1414	MARITIME DR NB	J1-1	24" X 39"	6.50	---	---	---	---	1	---	---	---	---	---	
	1415	MARITIME DR NB	W2-6	30" X 30"	---	---	6.25	---	---	1	---	---	---	---	---	
	1416	MARITIME DR NB	W13-1	18" X 18"	---	---	2.25	---	---	---	---	---	---	---	---	MOUNT BELOW #1415
	1417	MARITIME DR NB	R6-7R	30" X 30"	6.25	---	---	---	1	---	---	---	---	---	---	
	1418	MARITIME DR NB	R3-8HH	30" X 36"	7.50	---	---	---	1	---	---	---	---	---	---	
	1419	MARITIME DR NB	W3-2	36" X 36"	--	---	9.00	---	---	1	---	---	---	---	---	
	1420	MARITIME DR NB	W12-1D	24" X 24"	--	---	4.00	---	1	---	---	---	---	---	---	
	1421	MARITIME DR NB	R1-2	36" X 31"	3.88	---	---	---	---	1	---	---	2	---	---	
	1422	MARITIME DR NB	R6-2R	24" X 30"	5.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #1421
	1423	MARITIME DR NB	R1-2	36" X 31"	3.88	---	---	---	---	1	---	---	2	---	---	
	1424	MARITIME DR NB	R1-54	24" X 15"	2.50	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #1423
	1425	MARITIME DR NB	R1-2	36" X 31"	3.88	---	---	---	---	1	---	---	---	---	---	
	1426	MARITIME DR NB	R6-2R	24" X 30"	5.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #1425
	1427	STH 42 NB	R6-1R	36" X 12"	3.00	---	---	2	---	---	---	---	---	---	---	
	1428	STH 42 NB	R6-4B	60" X 24"	10.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #1427
	1429	STH 42 NB	D1-2	84" X 30"	17.50	---	---	---	2	---	---	---	---	---	---	
	1430	STH 42 NB	J4-2	48" X 36"	12.00	---	---	---	---	1	---	---	---	---	---	
	1431	STH 42 SB	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	1432	STH 42 SB	J2-1 MOD	24" X 81"	13.50	---	---	---	---	---	1	---	---	---	---	
	1433	STH 42 NB	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	1434	STH 42 SB	R5-2 MOD	---	---	---	---	---	---	---	---	---	---	1	1	LEFT TURN NO TRUCKS
	1435	STH 42 SB	R8-3	24" X 24"	4.00	---	---	---	1	---	---	---	---	---	---	
	1436	STH 42 SB	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	1437	STH 42 NB	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	1438	STH 42 SB	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	1439	STH 42 NB	R3-5A	42" X 48"	14.00	---	---	---	---	---	---	---	---	---	---	OVERHEAD SIGN STRUCTURE
	1440	STH 42 NB	R3-6R	42" X 48"	14.00	---	---	---	---	---	---	---	---	---	---	OVERHEAD SIGN STRUCTURE
	1441	STH 42 SB	J4-2	48" X 36"	12.00	---	---	---	---	1	---	---	---	---	---	
	1442	STH 42 SB	D1-2	78"X 30"	16.25	---	---	---	2	---	---	---	---	---	---	
	1443	STH 42 NB	R1-2	36" X 31"	3.88	---	---	---	---	1	---	---	2	---	---	
	1444	STH 42 NB	R6-2R	24" X 30"	5.00	---	---	---	---	---	---	---	---	---	---	
	1445	STH 42 SB	R6-1R	36" X 12"	3.00	---	---	2	---	---	---	---	---	---	---	
	1446	STH 42 SB	R6-4B	60" X 24"	10.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #1445
	1447	STH 42 SB	R1-2	36" X 31"	3.88	---	---	---	---	1	---	---	2	---	---	
	1448	STH 42 SB	R1-54	24" X 15"	2.50	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #1447
	1449	STH 42 SB	R1-2	36" X 31"	3.88	---	---	---	---	1	---	---	2	---	---	
	1450	STH 42 SB	R6-2R	24" X 30"	5.00	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW #1449
	1451	STH 42 SB	R3-5R	42" X 48"	14.00	---	---	---	---	---	---	---	---	---	---	OVERHEAD SIGN STRUCTURE
	1452	STH 42 SB	R3-6X	42" X 48"	14.00	---	---	---	---	---	---	---	---	---	---	OVERHEAD SIGN STRUCTURE
	1453	STH 42 SB	W3-2	36" X 36"	---	---	9.00	---	---	1	---	---	---	---	---	
	1501	STH 42 SB	W2-6	30" X 30"	--	---	6.25	---	---	1	---	---	---	---	---	
	1504	STH 42 SB	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	---	---	---	
	1506	STH 42 SB	W13-1	18" X 18"	--	---	2.25	---	---	---	---	---	---	---	---	MOUNT BELOW #1501
		PROJECT TOTALS			471.09	7.46	65.50	6	30	26	3	0	12	1	1	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

OVERHEAD SIGN SUPPORTS

ID	STATION	LOCATION	641.8100.01 OVERHEAD SIGN SUPPORT SUPPORT STRUCTURE S-36-0018 LS	641.8100.02 OVERHEAD SIGN SUPPORT SUPPORT STRUCTURE S-36-0019 LS
PROJECT 4570-12-71				
	192+78.4	STH 42 SB	1	---
	186+91.6	STH 42 NB	---	1
		PROJECT TOTALS	1	1

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

TRAFFIC CONTROL

STAGE	LOCATION	EST. SERVICE PERIOD DAYS	643.0500 FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 FLEXIBLE TUBULAR MARKER BASES EACH	643.0300 DRUMS NO	643.0300 DRUMS DAYS	643.0420* BARRICADES TYPE III NO	643.0420* BARRICADES TYPE III DAYS	643.0705* WARNING LIGHTS TYPE A NO	643.0705* WARNING LIGHTS TYPE A DAYS	643.0715 WARNING LIGHTS TYPE C NO	643.0715 WARNING LIGHTS TYPE C DAYS	643.0800 ARROW BOARDS NO	643.0800 ARROW BOARDS DAYS	643.0900* SIGNS NO	643.0900* SIGNS DAYS	643.1050* SIGNS PCMS NO	643.1050* SIGNS PCMS DAYS	REMARKS
PROJECT 1500-47-71																			
3A	USH 10 AND CTH R INTERSECTION	76	0	0	250	19,000	20	1,520	40	3,040	40	3,040	2	152	55	4,180	4	28	
3B	USH 10 LANE CLOSURES	76	0	0	340	25,840	10	760	20	1,520	25	1,900	2	152	32	2,432	2	14	
	PROJECT TOTALS		0	0		44,840		2,280		4,560		4,940		304		6,612		42	
PROJECT 1500-37-71																			
1A	LANE CLOSURES FOR TREE CLEARING	15	0	0	120	1,800	10	150	20	300	20	300	2	30	8	120	2	14	
1A	N. 8TH STREET	60	0	0	25	1,500	16	960	32	1,920	15	900	0	0	32	1,920	0	0	
1A	UNDISTRIBUTED	180	0	0	10	1,800	0	0	0	0	0	0	0	0	0	0	4	28	
1B	USH 10 AT N. 11TH ST.	120	0	0	0	0	8	960	16	1,920	0	0	0	0	8	960	0	0	
1B	N. 11TH ST.	120	0	0	0	0	8	960	16	1,920	0	0	0	0	8	960	0	0	
1B	N. 10TH ST.	120	0	0	0	0	2	240	4	480	0	0	0	0	4	480	0	0	
1B	N. 9 TH ST.	120	0	0	0	0	4	480	8	960	0	0	0	0	8	960	0	0	
1B	N. 8TH STREET (PHASE 1)	10	0	0	35	350	25	250	50	500	6	60	0	0	43	430	2	14	
1B	N. 8TH STREET (PHASE 2)	10	0	0	40	400	25	250	50	500	10	100	0	0	46	460	1	7	
1B	UNDISTRIBUTED	120	0	0	40	4,800	0	0	0	0	0	0	0	0	0	0	4	28	
1C	USH 10 AT N. 14TH ST.	140	0	0	0	0	8	1,120	16	2,240	0	0	0	0	8	1,120	0	0	
1C	N. 14TH ST.	140	0	0	0	0	4	560	8	1,120	0	0	0	0	8	1,120	0	0	
1C	N. 13TH ST.	140	0	0	0	0	2	280	4	560	0	0	0	0	4	560	0	0	
1C	MENASHA AVE.	140	0	0	0	0	8	1,120	16	2,240	0	0	0	0	8	1,120	0	0	
1C	N. 12TH ST.	140	0	0	0	0	4	560	8	1,120	0	0	0	0	8	1,120	0	0	
1C	N. 11TH ST. OPEN TO TRAFFIC	120	0	0	0	0	7	840	14	1,680	0	0	0	0	10	1,200	0	0	
1C	N. 11TH ST. (PHASE 1)	10	0	0	28	280	18	180	36	360	6	60	0	0	34	340	1	7	
1C	N. 11TH ST. (PHASE 2)	10	0	0	26	260	24	240	48	480	0	0	0	0	34	340	1	7	
1C	USH 10 AT N. 11TH ST.	70	0	0	0	0	7	490	14	980	0	0	0	0	8	560	0	0	
1C	UNDISTRIBUTED	140	0	0	50	7,000	0	0	0	0	0	0	0	0	0	0	4	28	
2A	USH 10 AT 18TH ST.	90	0	0	0	0	8	720	16	1,440	0	0	0	0	8	720	1	7	
2A	N. 17TH ST.	90	0	0	0	0	4	360	8	720	0	0	0	0	6	540	0	0	
2A	N. 16TH ST.	90	0	0	0	0	4	360	8	720	0	0	0	0	6	540	0	0	
2A	N. 15TH ST.	90	0	0	0	0	4	360	8	720	0	0	0	0	6	540	0	0	
2A	18TH ST. OPEN TO TRAFFIC	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2A	18TH ST. (PHASE 1)	10	0	0	70	700	27	270	54	540	30	300	0	0	53	530	1	7	
2A	18TH ST. (PHASE 2)	10	0	0	30	300	35	350	70	700	7	70	0	0	40	400	1	7	
2A	USH 10 AT 14TH ST.	90	0	0	0	0	8	720	16	1,440	0	0	0	0	8	720	1	7	
2A	UNDISTRIBUTED	90	0	0	150	13,500	0	0	0	0	0	0	0	0	0	0	4	28	

*-ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

TRAFFIC CONTROL CONT.

STAGE	LOCATION	EST. SERVICE PERIOD DAYS	643.0500 FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 FLEXIBLE TUBULAR MARKER BASES EACH	643.0300 DRUMS NO	643.0300 DRUMS DAYS	643.0420* BARRICADES TYPE III NO	643.0420* BARRICADES TYPE III DAYS	643.0705* WARNING LIGHTS TYPE A NO	643.0705* WARNING LIGHTS TYPE A DAYS	643.0715 WARNING LIGHTS TYPE C NO	643.0715 WARNING LIGHTS TYPE C DAYS	643.0800 ARROW BOARDS NO	643.0800 ARROW BOARDS DAYS	643.0900* SIGNS NO	643.0900* SIGNS DAYS	643.1050* SIGNS PCMS NO	643.1050* SIGNS PCMS DAYS	REMARKS
PROJECT 1500-37-71 CONT.																			
2B	USH 10 AT 23RD ST.	180	0	0	0	0	8	1,440	10	1,800	0	0	0	0	8	1,440	1	7	
2B	MENCHL DR.	180	0	0	0	0	2	360	3	540	0	0	0	0	4	720	0	0	
2B	21ST ST.	180	0	0	0	0	6	1,080	4	720	0	0	0	0	8	1,440	0	0	
2B	20TH ST.	180	0	0	0	0	6	1,080	4	720	0	0	0	0	8	1,440	0	0	
2B	ELM ST.	180	0	0	0	0	2	360	3	540	0	0	0	0	4	720	0	0	
2B	USH 10 AT 18TH ST.	180	0	0	0	0	8	1,440	10	1,800	0	0	0	0	8	1,440	1	7	
2B	USH 10 WEST OF FLEETWOOD DR.	180	0	0	0	0	8	1,440	10	1,800	0	0	0	0	8	1,440	1	7	
2B	FLEETWOOD DR.	180	0	0	0	0	6	1,080	8	1,440	0	0	0	0	4	720	0	0	
2B	23RD ST.	180	0	0	0	0	10	1,800	12	2,160	0	0	0	0	8	1,440	0	0	
2B	EMERGENCY VEHICLE RR CROSSING	180	0	0	0	0	4	720	6	1,080	0	0	0	0	2	360	0	0	
2B	UNDISTRIBUTED	180		0	100	18,000	0	0	0	0	0	0	0	0	0	0	4	28	
	PROJECT TOTALS		0	0		50690		23580		38160		1790		30		28920		238	

*-ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC CONTROL CONT.

STAGE	LOCATION	EST. SERVICE PERIOD DAYS	643.0500 FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 FLEXIBLE TUBULAR MARKER BASES EACH	643.0300 DRUMS NO	643.0300 DRUMS DAYS	643.0420* BARRICADES TYPE III NO	643.0420* BARRICADES TYPE III DAYS	643.0705* WARNING LIGHTS TYPE A NO	643.0705* WARNING LIGHTS TYPE A DAYS	643.0715 WARNING LIGHTS TYPE C NO	643.0715 WARNING LIGHTS TYPE C DAYS	643.0800 ARROW BOARDS NO	643.0800 ARROW BOARDS DAYS	643.0900* SIGNS NO	643.0900* SIGNS DAYS	643.1050* SIGNS PCMS NO	643.1050* SIGNS PCMS DAYS	REMARKS
PROJECT 4570-12-71																			
1A	LANE CLOSURES FOR TREE CLEARING	14	0	0	120	1,680	10	140	20	280	20	280	2	28	8	112	1	7	
1A	STH 42 AT N. 8TH ST.	180	0	0	0	0	7	1,260	14	2,520	0	0	0	0	6	1,080	1	7	
1A	LINCOLN BLVD.	180	0	0	0	0	4	720	8	1,440	0	0	0	0	6	1,080	0	0	
1A	N. 6TH ST.	180	0	0	0	0	4	720	8	1,440	0	0	0	0	6	1,080	0	0	
1A	N. 5TH ST.	180	0	0	0	0	2	360	4	720	0	0	0	0	3	540	0	0	
1A	MARITIME DR & STH 42	90	0	0	0	0	6	540	12	1,080	0	0	0	0	10	900	2	14	
1A	UNDISTRIBUTED	180	0	0	160	28800	0	0	0	0	0	0	0	0	0	0	4	28	
1A	ROUNDABOUT/STH 42/MARITIME DR. PH. 1	40	40	40	95	3,800	25	1,000	50	2,000	35	1,400	0	0	47	1,880	2	14	
1A	ROUNDABOUT/STH 42/MARITIME DR. PH. 2	30	30	30	150	4,500	45	1,350	90	2,700	50	1,500	0	0	54	1,620	2	14	
1A	ROUNDABOUT/STH 42/MARITIME DR. PH. 3	30	0	0	115	3,450	25	750	50	1,500	25	750	0	0	50	1,500	2	14	
	PROJECT TOTALS		70	70		42,230		6,840		13,680		3,930		28		9,792		98	
	TOTALS		70	70		137,760		32,700		56,400		10,660		362		45,324		378	

*-ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

TRAFFIC CONTROL SIGNS FIXED MESSAGE

ID	STAGE	LOCATION	643.1000* SF	REMARKS
PROJECT 1500-37-71				
	1	USH 10/CTH R	16.5	"WALDO BLVD OPEN TO 18TH ST" - SEE SIGN DETAIL
	2 & 3	STH 42/MARITIME DR.	18	"WALDO BLVD OPEN TO MENASHA AVE" - SEE SIGN DETAIL
		TOTAL	34.5	

*-ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TEMPORARY PEDESTRIAN ACCOMMODATIONS

ID	PROJECT STAGE	LOCATION	644.1410.S TEMPORARY PEDESTRIAN SURFACE ASPHALT SF	644.1601.S TEMPORARY CURB RAMPS EA	644.1616.S TEMPORARY PEDESTRIAN SAFETY FENCE LF	REMARKS
PROJECT 1500-47-71						
	3	USH 10	40	---	---	UNDERGROUND INSTALLATIONS BELOW EXISITNG SIDEWALK
		PROJECT TOTALS	40	0	0	
PROJECT 1500-37-71						
	1B	USH 10	450	3	1200	
	1B	SIDEROADS	200	8	---	
	1C	USH 10	900	5	1400	
	1C	SIDEROADS	330	12	---	
	2A	USH 10	475	1	1200	
	2A	SIDEROADS	225	10	---	
	2B	USH 10	2625	9	44	
	2B	SIDEROADS	340	12	---	
		UNDISTRIBUTED	3600	---	---	UNDERGROUND INSTALLATIONS BELOW EXISITNG SIDEWALK
		PROJECT TOTALS	9145	60	3844	
PROJECT4570-12-71						
	1A	STH 42	815	4	3820	
	1A	SIDEROADS	315	9	---	
		UNDISTRIBUTED	1340	---	---	UNDERGROUND INSTALLATIONS BELOW EXISITNG SIDEWALK
		PROJECT TOTALS	2470	13	3820	
		TOTALS	11,655	73	7,664	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

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TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 450 DAYS	643.0900 SIGNS * DAYS	643.0420 BARRICADES TYPE III * DAYS	643.0705 WARNING LIGHTS TYPE A * DAYS	643.1000 FIXED MESSAGE SIGN * S.F.	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS *	NO OF CYCLES	643.0910 COVERING SIGNS TYPE I EACH	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
1	I-43, N. OF CLOVER RD, COVER TYPE I SIGN AS SHOWN										1	1		COVER "HWY 42-10"
2	I-43, N. OF SILVER CREEK RD, PLACE 1/2 MILE N. OF US 151 OFF-RAMP IN MEDIAN	M 3-2	36"X18"	1	450	450								
	"	M 1-4	36"X36"	1	450	450								10
	"	WO 20-2A	48"X48"	1	450	450								
3	I-43, N. OF SILVER CREEK RD, PLACE 1/2 MILE N. OF US 151 OFF-RAMP ON RIGHT SHOULDER	M 3-2	36"X18"	1	450	450								
	"	M 1-4	36"X36"	1	450	450								10
	"	WO 20-2A	48"X48"	1	450	450								
4	I-43, N. OF SILVER CREEK RD, PLACE 1/4 MILE N. OF US 151 OFF-RAMP IN MEDIAN	MO 4-8	36"X18"	1	450	450								
	"	M 3-2	36"X18"	1	450	450								
	"	M 1-4	36"X36"	1	450	450								10
	"	MO 5-2R	30"X30"	1	450	450								
5	I-43, N. OF SILVER CREEK RD, PLACE 1/4 MILE N. OF US 151 OFF-RAMP ON RIGHT SHOULDER	MO 4-8	36"X18"	1	450	450								
	"	M 3-2	36"X18"	1	450	450								
	"	M 1-4	36"X36"	1	450	450								10
	"	MO 5-2R	30"X30"	1	450	450								
6	I-43, AT US 151 OFF-RAMP, PLACE ADJACENT TO EXISTING TYPE I SIGN IN MEDIAN	MO 4-8	36"X18"	1	450	450								
	"	M 3-2	36"X18"	1	450	450								
	"	M 1-4	36"X36"	1	450	450								10
	"	MO 6-2	30"X30"	1	450	450								TILT RIGHT
7	I-43, AT US 151 OFF-RAMP, PLACE ADJACENT TO EXISTING TYPE I SIGN ON RIGHT SHOULDER	MO 4-8	36"X18"	1	450	450								
	"	M 3-2	36"X18"	1	450	450								
	"	M 1-4	36"X36"	1	450	450								10
	"	MO 6-2	30"X30"	1	450	450								TILT RIGHT
8	I-43 OFF-RAMP TO US 151, PLACE 500' PRIOR TO RAMP INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-2	24"X12"	1	450	450								
	"	M 1-4	24"X24"	1	450	450								10
	"	MO 5-1R	21"X21"	1	450	450								
9	I-43 OFF-RAMP TO US 151, PLACE 150' PRIOR TO RAMP INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-2	24"X12"	1	450	450								
	"	M 1-4	24"X24"	1	450	450								10
	"	MO 6-1	21"X21"	1	450	450								RIGHT
10	US 151, PLACE AT END OF PARAPET WALL FOR I-43 STRUCTURE EAST SIDE	MO 4-5	24"X12"	1	450	450								
	"	M 3-2	24"X12"	1	450	450								
	"	M 1-4	24"X24"	1	450	450								10
	"	MO 6-1	21"X21"	1	450	450								AHEAD
11	US 151, PLACE NEXT TO EXISTING J2-2 TYPE II SIGN AT I-43 SB RAMP INTERSECTION	MO 4-5	24"X12"	1	450	450								
	"	M 3-2	24"X12"	1	450	450								
	"	M 1-4	24"X24"	1	450	450								10
	"	MO 6-1	21"X21"	1	450	450								AHEAD
12	US 151, E. OF I-43, PLACE 300' E. OF I-43 NB RAMP INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-4	24"X12"	1	450	450								
	"	M 1-4	24"X24"	1	450	450								10
	"	MO 6-1	21"X21"	1	450	450								RIGHT
13	US 151, E. OF I-43, PLACE 200' E. OF I-43 NB RAMP INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-2	24"X12"	1	450	450								
	"	M 1-4	24"X24"	1	450	450								10
14	US 151, E. OF I-43, PLACE 550' E. OF I-43 NB RAMP INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-4	24"X12"	1	450	450								
	"	M 1-4	24"X24"	1	450	450								10
	"	MO 5-1R	21"X21"	1	450	450								
	PAGE SUBTOTALS			49		22,050	0	0	0	0		1	0	

* ADDITONAL QUANTITIES SHOWN ELSEWHERE

PLAN SHEET PRODUCED

BY WisDOT - NE REGION

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TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 450 DAYS	643.0900 SIGNS * DAYS	643.0420 BARRICADES TYPE III * DAYS	643.0705 WARNING LIGHTS TYPE A * DAYS	643.1000 FIXED MESSAGE SIGN * S.F.	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS *	NO OF CYCLES	643.0910 COVERING SIGNS TYPE I EACH	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
15	US 151, W. OF CTH R, PLACE 150' W. OF CTH R INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-2	24"X12"	1	450	450								
	"	M 1-4	24"X24"	1	450	450								10
	"	MO 6-1	21"X21"	1	450	450								AHEAD
16	US 151, E. OF CTH R, PLACE 300' E. OF CTH R INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-4	24"X12"	1	450	450								
	"	M 1-4	24"X24"	1	450	450								10
	"	MO 6-1	21"X21"	1	450	450								AHEAD
17	US 151, E. OF CTH R, PLACE 100' W. OF DIVISION ST/35TH ST INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-2	24"X12"	1	450	450								
	"	M 1-4	24"X24"	1	450	450								10
	"	MO 6-1	21"X21"	1	450	450								AHEAD
18	US 151, E. OF CTH R, PLACE 100' E. OF DIVISION ST/35TH ST INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-4	24"X12"	1	450	450								
	"	M 1-4	24"X24"	1	450	450								10
	"	MO 6-1	21"X21"	1	450	450								AHEAD
19	US 151, E. OF CTH R, PLACE 100' W. OF CUSTER ST INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-2	24"X12"	1	450	450								
	"	M 1-4	24"X24"	1	450	450								10
	"	MO 6-1	21"X21"	1	450	450								AHEAD
20	US 151, E. OF CTH R, PLACE 100' E. OF CUSTER ST INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-4	24"X12"	1	450	450								
	"	M 1-4	24"X24"	1	450	450								10
	"	MO 6-1	21"X21"	1	450	450								AHEAD
21	US 151, W. OF US 10/10TH ST, MODIFY EXISTING J1-1 SIGN AS SHOWN	M 4-8A	24"X18"	1	450	450								
22	US 151, W. OF US 10/10TH ST, PLACE 100' W. OF US 10/10TH ST INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-4	24"X12"	1	450	450								
	"	M 1-4	24"X24"	1	450	450								10
23	US 10/10TH ST, AT US 151 INTERSECTION, MODIFY EXISTING J3-1 SIGN AS SHOWN	MO 4-8	24"X12"	1	450	450								
	"	MO 6-1	21"X21"	1	450	450								RIGHT
23A	INTERSECTION OF 8TH & WASHINGTON ST, COVER EXISTING J3-1 SIGN AS SHOWN			1							1		1	COVER "WEST 10 LT"
23B	US 10 WB, N. OF WASHINGTON ST, COVER EXISTING J4-1 SIGN AS SHOWN			1							1		1	COVER "WEST 10"
23C	US 10 WB, S. OF PINE ST, COVER EXISTING J1-2 SIGN AS SHOWN			1							1		1	COVER "JCT 42, JCT B"
23D	US 10 WB, N. OF PINE ST, COVER EXISTING J2-2 SIGN AS SHOWN			1							1		1	COVER "N 42 LT TURN, S 42 RT TURN"
24	US 10/10TH ST, S. OF WALDO BLVD INTERSECTION, PLACE IN TERRACE, FIELD DETERMINED	PCMS								7				
24A	STH 42, N. OF WALDO BLVD INTERSECTION, PLACE ON RIGHT SIDE, FIELD DETERMINED	PCMS								7				
25	US 10/STH 42, E. OF CTH R, PLACE ON RIGHT SIDE, FIELD DETERMINED	PCMS								7				
26	I-43/STH 42, N. OF US 151, PLACE TO RIGHT OF EXISTING J4-2 SIGN	MO 4-8	36"X18"	1	450	450								
	"	M 3-4	36"X18"	1	450	450								
	"	M 1-4	36"X36"	1	450	450								10
27	I-43/STH 42, N. OF CTH CS STRUCTURE, COVER EXISTING TYPE I AS SHOWN										1	1		
28	I-43/STH 42, N. OF MIDDLE RD, PLACE 1/2 MILE S. OF US 10/STH 42 INTERCHANGE ON RIGHT SHOULDER	M 3-1	36"X18"	1	450	450								
	"	M 1-6	36"X36"	1	450	450								42
	"	WO 20-2A	48"X48"	1	450	450								
29	I-43/STH 42, N. OF MIDDLE RD, PLACE 1/2 MILE S. OF US 10/STH 42 INTERCHANGE IN MEDIAN	M 3-1	36"X18"	1	450	450								
	"	M 1-6	36"X36"	1	450	450								42
	"	WO 20-2A	48"X48"	1	450	450								
30	I-43/STH 42, N. OF MIDDLE RD, PLACE 1/4 MILE S. OF US 10/STH 42 INTERCHANGE ON RIGHT SHOULDER	MO 4-8	36"X18"	1	450	450								
	"	M 3-4	36"X18"	1	450	450								
	"	M 1-4	36"X36"	1	450	450								10
	"	MO 6-1	30"X30"	1	450	450								AHEAD
	"	MO 4-8	36"X18"	1	450	450								
	"	M 3-1	36"X18"	1	450	450								
	"	M 1-6	36"X36"	1	450	450								42
	"	MO 6-1	30"X30"	1	450	450								AHEAD
	PAGE SUBTOTALS			51		21,150	0	0	0	21		1	4	

PLAN SHEET PRODUCED BY WisDOT - NE REGION

* ADDITONAL QUANTITIES SHOWN ELSEWHERE

TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 450 DAYS	643.0900 SIGNS * DAYS	643.0420 BARRICADES TYPE III * DAYS	643.0705 WARNING LIGHTS TYPE A * DAYS	643.1000 FIXED MESSAGE SIGN * S.F.	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS *	NO OF CYCLES	643.0910 COVERING SIGNS TYPE I EACH	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
31	I-43/STH 42, N. OF MIDDLE RD, PLACE 1/4 MILE S. OF US 10/STH 42 INTERCHANGE IN MEDIAN	MO 4-8	36"X18"	1	450	450								
	"	M 3-4	36"X18"	1	450	450								
	"	M 1-4	36"X36"	1	450	450								10
	"	MO 6-1	30"X30"	1	450	450								AHEAD
	"	MO 4-8	36"X18"	1	450	450								
	"	M 3-1	36"X18"	1	450	450								
	"	M 1-6	36"X36"	1	450	450								42
	"	MO 6-1	30"X30"	1	450	450								AHEAD
32	I-43/STH 42, N. OF MIDDLE RD, PLACE 200' S. OF US 10/STH 42 ON-RAMP	M 4-8A	30"X24"	1	450	450								
	"	M 3-3	36"X18"	1	450	450								
	"	M 1-6	36"X36"	1	450	450								42
33	CTH JJ, W. OF I-43, PLACE 750' W. OF I-43 SB RAMP INTERSECTION	M 3-2	24"X12"	1	450	450								
	"	M 1-4	24"X24"	1	450	450								10
	"	M 3-1	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	WO 20-2A	48"X48"	1	450	450								
34	CTH JJ, W. OF I-43, PLACE 100' W. OF I-43 SB RAMP INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-2	24"X12"	1	450	450								
	"	M 1-4	24"X24"	1	450	450								10
	"	MO 6-1	21"X21"	1	450	450								AHEAD
	"	MO 4-8	24"X12"	1	450	450								
	"	M 3-1	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-1	21"X21"	1	450	450								AHEAD
35	CTH JJ, AT I-43 SB RAMP INTERSECTION, MODIFY EXISTING J2-3 AS SHOWN	MO 4-8	24"X12"	1	450	450								
	"	MO 5-1L	21"X21"	1	450	450								
	"	MO 4-8	24"X12"	1	450	450								
	"	MO 5-1L	21"X21"	1	450	450								
36	US 10/STH 42, AT I-43 NB RAMP INTERSECTION, PLACE IN MEDIAN JUST W. OF INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-2	24"X12"	1	450	450								
	"	M 1-4	24"X24"	1	450	450								10
	"	MO 6-1	21"X21"	1	450	450								LEFT
	"	MO 4-8	24"X12"	1	450	450								
	"	M 3-1	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-1	21"X21"	1	450	450								LEFT
37	US 10/STH 42, AT I-43 NB RAMP INTERSECTION, PLACE IN MEDIAN JUST E. OF INTERSECTION	R 11-3	60"X30"	1	450	450	450	900						3.3 MILES AHEAD
	"	M 4-9L	30"X24"	1	450	450								
38	US 10/STH 42, E. OF I-43, COVER EXISTING J4-2 AS SHOWN										1		1	COVER "EAST 10-NORTH 42"
39	I-43/US 10, N. OF STH 42/CTH JJ, COVER EXISTING TYPE I SIGN AS SHOWN										1	1		COVER ENTIRE SIGN
40	I-43/US 10, N. OF STH 42/CTH JJ, COVER EXISTING TYPE I SIGN AS SHOWN										1	1		COVER AS SHOWN
40A	I-43/US 10 OFF-RAMP TO STH 42/CTH JJ, COVER EXISTING J3-3 SIGN AS SHOWN										1		1	COVER "EAST 10 LT-NORTH 42 LT"
41	I-43, S. OF US 10/STH 42/CTH JJ, COVER EXISTING TYPE I SIGN AS SHOWN										1	1		COVER AS SHOWN
	PAGE SUBTOTALS			38		17,100	450	900	0	0		3	2	

* ADDITONAL QUANTITIES SHOWN ELSEWHERE

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TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 450 DAYS	643.0900 SIGNS * DAYS	643.0420 BARRICADES TYPE III * DAYS	643.0705 WARNING LIGHTS TYPE A * DAYS	643.1000 FIXED MESSAGE SIGN * S.F.	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS *	NO OF CYCLES	643.0910 COVERING SIGNS TYPE I EACH	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
42	US 10/STH 42, AT CTH R INTERSECTION, COVER EXISTING J13-3 AS SHOWN										1		1	COVER "10 AHEAD-42 AHEAD"
43	CTH R, AT US 10/STH 42 INTERSECTION, MODIFY EXISTING J13-3 AS SHOWN	MO 6-1	21"X21"	1	450	450								RIGHT
	"	MO 6-1	21"X21"	1	450	450								RIGHT
44	CTH R, AT US 10/STH 42 INTERSECTION, MODIFY EXISTING J13-3 AS SHOWN	MO 6-1	21"X21"	1	450	450								LEFT
	"	MO 6-1	21"X21"	1	450	450								LEFT
45	US 10/STH 42, AT CTH R INTERSECTION, PLACE IN SE QUADRANT OF INTERSECTION	R 11-3	60"X30"	1	450	450	450	900						1.8 MILES AHEAD
46	US 10/STH 42, E. OF CTH R INTERSECTION, COVER EXISTING J4-2 AS SHOWN										1		1	
47	CTH R, S. OF US 10/STH 42, COVER EXISTING J3-2 AS SHOWN										1		1	
48	US 10/STH 42, E. OF CTH R INTERSECTION, COVER EXISTING J4-3 AS SHOWN										1		1	
49	STH 42, N. OF WALDO BLVD, COVER EXISTING J13-1 AS SHOWN										1		1	
50	STH 42, N. OF WALDO BLVD, COVER EXISTING J2-1 AS SHOWN										1		1	
51	I-43/US 10, N. OF CTH JJ INTERCHANGE, MODIFY EXISTING J4-2 AS SHOWN	M 4-8A	30"X24"	1	450	450								
52	I-43/US 10, N. OF CTH JJ INTERCHANGE, PLACE RIGHT OF EXISTING J4-2 TYPE II SIGN	MO 4-8	36"X18"	1	450	450								
	"	M 3-1	36"X18"	1	450	450								
	"	M 1-6	36"X36"	1	450	450								42
53	I-43/US 10, S. OF CTH P, COVER EXISTING TYPE I SIGN AS SHOWN										1	1		COVER "NORTH 42-EAST 10"
53A	I-43/US 10, N. OF CTH P, COVER EXISTING TYPE I SIGN AS SHOWN										1	1		COVER ENTIRE SIGN
54	I-43/US 10, S. OF US 10/STH 310 INTERCHANGE, PLACE 1/4 MILE S. OF US 10 OFF-RAMP IN MEDIAN	MO 4-8	36"X18"	1	450	450								
	"	M 3-1	36"X18"	1	450	450								
	"	M 1-6	36"X36"	1	450	450								42
	"	MO 5-2R	30"X30"	1	450	450								
55	I-43/US 10, S. OF US 10/STH 310 INTERCHANGE, PLACE 1/4 MILE S. OF US 10 OFF-RAMP ON RIGHT SHOULDER	MO 4-8	36"X18"	1	450	450								
	"	M 3-1	36"X18"	1	450	450								
	"	M 1-6	36"X36"	1	450	450								42
	"	MO 5-2R	30"X30"	1	450	450								
56	I-43/US 10, S. OF US 10/STH 310 INTERCHANGE, PLACE RIGHT OF EXISTING J4-2 TYPE II SIGN	MO 4-8A	36"X18"	1	450	450								
	"	M 3-3	36"X18"	1	450	450								
	"	M 1-6	36"X36"	1	450	450								42
57	I-43/US 10, S. OF US 10/STH 310 INTERCHANGE, PLACE LEFT OF EXISTING TYPE I EXIT SIGN	MO 4-8	36"X18"	1	450	450								
	"	M 3-1	36"X18"	1	450	450								
	"	M 1-6	36"X36"	1	450	450								42
	"	MO 6-2	30"X30"	1	450	450								TILT RIGHT
58	US 10, W. OF I-43, PLACE 750' W. OF I-43 SB RAMP INTERSECTION ON RIGHT SHOULDER	FMS	84"X36"						21					
58A	I-43, N. OF US 10/STH 310 INTERCHANGE, PLACE 1900' PRIOR TO EXIT RAMP ON RIGHT SHOULDER	FMS	84"X36"						21					
59	US 10, W. OF I-43, PLACE 750' W. OF I-43 SB RAMP INTERSECTION IN MEDIAN	FMS	84"X36"						21					
59A	I-43, N. OF US 10/STH 310 INTERCHANGE, PLACE 1900' PRIOR TO EXIT RAMP IN MEDIAN	FMS	84"X36"						21					
60	US 10, W. OF I-43, PLACE 250' W. OF I-43 SB RAMP INTERSECTION ON RIGHT SHOULDER	M 4-5	24"X12"	1	450	450								
	"	M 3-1	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-1	21"X21"	1	450	450								AHEAD
61	US 10, AT I-43 INTERCHANGE, PLACE IN MEDIAN AT SB RAMP INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-3	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-1	21"X21"	1	450	450								LEFT
PAGE SUBTOTALS				32		14,400	450	900	84	0		2	6	

* ADDITONAL QUANTITIES SHOWN ELSEWHERE

PLAN SHEET PRODUCED

BY WisDOT - NE REGION

TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 450 DAYS	643.0900 SIGNS * DAYS	643.0420 BARRICADES TYPE III * DAYS	643.0705 WARNING LIGHTS TYPE A * DAYS	643.1000 FIXED MESSAGE SIGN * S.F.	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS *	NO OF CYCLES	643.0910 COVERING SIGNS TYPE I EACH	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
62	I-43 SB OFF-RAMP TO US 10, PLACE 150' PRIOR TO RAMP INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-1	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-1	21"X21"	1	450	450								LEFT
63	I-43 SB OFF-RAMP TO US 10, PLACE 150' PRIOR TO RAMP INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-1	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-1	21"X21"	1	450	450								LEFT
64	I-43 SB OFF-RAMP TO US 10, PLACE 600' PRIOR TO RAMP INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-1	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 5-1L	21"X21"	1	450	450								
65	STH 310, JUST E. OF I-43, PLACE 50' W. OF RAMP INTERSECTION IN MEDIAN	MO 4-8	24"X12"	1	450	450								
	"	M 3-3	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 5-1L	21"X21"	1	450	450								
66	STH 310, E. OF I-43, PLACE 250' E. OF I-43 NB RAMP INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-1	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
67	STH 310, E. OF I-43, PLACE 350' E. OF I-43 NB RAMP INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-3	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-1	21"X21"	1	450	450								AHEAD
68	STH 310, W. OF WAGON WHEEL RD, PLACE 300' W. OF WAGON WHEEL RD INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-1	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-1	21"X21"	1	450	450								AHEAD
69	I-43, N. OF US 10/STH 310 INTERCHANGE, PLACE LEFT, ADJACENT TO EXISTING TYPE I EXIT SIGN	MO 4-8	36"X18"	1	450	450								
	"	M 3-1	36"X18"	1	450	450								
	"	M 1-6	36"X36"	1	450	450								42
	"	MO 6-2	30"X30"	1	450	450								TILT RIGHT
70	I-43, N. OF US 10/STH 310 INTERCHANGE, PLACE 1/4 MILE PRIOR TO EXIT RAMP IN MEDIAN	MO 4-8	36"X18"	1	450	450								
	"	M 3-1	36"X18"	1	450	450								
	"	M 1-6	36"X36"	1	450	450								42
	"	MO 5-2R	30"X30"	1	450	450								
71	I-43, N. OF US 10/STH 310 INTERCHANGE, PLACE 1/4 MILE PRIOR TO EXIT RAMP ON RIGHT SHOULDER	MO 4-8	36"X18"	1	450	450								
	"	M 3-1	36"X18"	1	450	450								
	"	M 1-6	36"X36"	1	450	450								42
	"	MO 5-2R	30"X30"	1	450	450								
72	I-43, N. OF US 10/STH 310 INTERCHANGE, PLACE 1/2 MILE PRIOR TO EXIT RAMP ON RIGHT SHOULDER	M 3-1	36"X18"	1	450	450								
	"	M 1-6	36"X36"	1	450	450								42
	"	WO 20-2A	48"X48"	1	450	450								
73	I-43, N. OF US 10/STH 310 INTERCHANGE, PLACE 1/2 MILE PRIOR TO EXIT RAMP IN MEDIAN	M 3-1	36"X18"	1	450	450								
	"	M 1-6	36"X36"	1	450	450								42
	"	WO 20-2A	48"X48"	1	450	450								
	PAGE SUBTOTALS			45		20,250	0	0	0	0		0	0	

* ADDITONAL QUANTITIES SHOWN ELSEWHERE

PLAN SHEET PRODUCED

BY WisDOT - NE REGION

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TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 450 DAYS	643.0900 SIGNS * DAYS	643.0420 BARRICADES TYPE III * DAYS	643.0705 WARNING LIGHTS TYPE A * DAYS	643.1000 FIXED MESSAGE SIGN * S.F.	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS *	NO OF CYCLES	643.0910 COVERING SIGNS TYPE I EACH	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
74	STH 310, W. OF CTH R, PLACE 200' W. OF CTH R ROUNDABOUT	MO 4-8	24"X12"	1	450	450								
	"	M 3-1	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-1	21"X21"	1	450	450								AHEAD
75	STH 310, AT CTH R ROUNDABOUT, PLACE ABOVE D1-1 SPLITTER ISLAND SIGN FOR WEST LEG	MO 4-8	24"X12"	1	450	450								
	"	M 3-3	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-2	21"X21"	1	450	450								TILT RIGHT
76	STH 310, AT CTH R ROUNDABOUT, PLACE ABOVE D1-1 SPLITTER ISLAND SIGN FOR EAST LEG	MO 4-8	24"X12"	1	450	450								
	"	M 3-1	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-2	21"X21"	1	450	450								TILT RIGHT
77	STH 310, E. OF CTH R, PLACE 200' E. OF CTH R ROUNDABOUT	MO 4-8	24"X12"	1	450	450								
	"	M 3-3	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-1	21"X21"	1	450	450								AHEAD
78	STH 310, W. OF CTH Q, PLACE 200' W. OF CTH Q ROUNDABOUT	MO 4-8	24"X12"	1	450	450								
	"	M 3-1	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-1	21"X21"	1	450	450								AHEAD
79	STH 310, AT CTH Q ROUNDABOUT, PLACE ABOVE D1-1 SPLITTER ISLAND SIGN FOR WEST LEG	MO 4-8	24"X12"	1	450	450								
	"	M 3-3	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-2	21"X21"	1	450	450								TILT RIGHT
80	STH 310, AT CTH Q ROUNDABOUT, PLACE ABOVE D1-1 SPLITTER ISLAND SIGN FOR EAST LEG	MO 4-8	24"X12"	1	450	450								
	"	M 3-1	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-2	21"X21"	1	450	450								TILT RIGHT
81	STH 310, E. OF CTH Q, PLACE 200' E. OF CTH Q ROUNDABOUT	MO 4-8	24"X12"	1	450	450								
	"	M 3-3	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-1	21"X21"	1	450	450								AHEAD
82	STH 310, W. OF CTH Q, PLACE 200' W. OF CTH Q ROUNDABOUT	MO 4-8	24"X12"	1	450	450								
	"	M 3-1	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-1	21"X21"	1	450	450								AHEAD
83	STH 310, AT CTH B ROUNDABOUT, PLACE ABOVE D1-1 SPLITTER ISLAND SIGN FOR WEST LEG	MO 4-8	24"X12"	1	450	450								
	"	M 3-3	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-2	21"X21"	1	450	450								TILT RIGHT
84	STH 310, AT CTH B ROUNDABOUT, PLACE ABOVE D1-1 SPLITTER ISLAND SIGN FOR EAST LEG	MO 4-8	24"X12"	1	450	450								
	"	M 3-1	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-2	21"X21"	1	450	450								TILT RIGHT
85	STH 310, E. OF CTH Q, PLACE 200' E. OF CTH Q ROUNDABOUT	MO 4-8	24"X12"	1	450	450								
	"	M 3-3	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-1	21"X21"	1	450	450								AHEAD
	PAGE SUBTOTALS			48		21,600	0	0	0	0		0	0	

* ADDITONAL QUANTITIES SHOWN ELSEWHERE

PLAN SHEET PRODUCED

BY WisDOT - NE REGION

TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 450 DAYS	643.0900 SIGNS * DAYS	643.0420 BARRICADES TYPE III * DAYS	643.0705 WARNING LIGHTS TYPE A * DAYS	643.1000 FIXED MESSAGE SIGN * S.F.	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE DAYS *	NO OF CYCLES	643.0910 COVERING SIGNS TYPE I EACH	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
86	STH 310, W. OF COLUMBUS ST, PLACE 150' W. OF COLUMBUS ST INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-1	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-1	21"X21"	1	450	450								AHEAD
87	STH 310, E. OF COLUMBUS ST, PLACE 150' E. OF COLUMBUS ST INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-3	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-1	21"X21"	1	450	450								AHEAD
88	STH 310, N. OF 14TH ST, PLACE 175' N. OF 14TH ST INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-1	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-1	21"X21"	1	450	450								LEFT
89	STH 310, E. OF HAWTHORNE AVE, PLACE 75' E. OF HAWTHORNE AVE INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-3	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-1	21"X21"	1	450	450								RIGHT
90	STH 310, W. OF MADISON ST, PLACE 125' W. OF MADISON ST INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-1	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-1	21"X21"	1	450	450								LEFT
91	STH 310, N. OF 14TH ST, PLACE 90' N. OF 14TH ST INTERSECTION ON SIDEWALK	MO 4-8	24"X12"	1	450	450								
	"	M 3-3	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-1	21"X21"	1	450	450								RIGHT
92	STH 310, W. OF STH 42, MODIFY EXISTING J1-1 SIGN AS SHOWN	M 4-8A	24"X18"	1	450	450								
93	STH 310, W. OF STH 42, PLACE 125' W. OF STH 42 INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-3	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
94	STH 42, AT STH 310 INTERSECTION, PLACE IN SW QUADRANT OF STH 310 INTERSECTION OFF ROADWAY	R 11-3	60"X30"	1	450	450								4.8 MILES AHEAD
	"	M 4-9R	30"X24"	1	450	450								
95	STH 42, N. OF STH 310, PLACE 75' N. OF STH 310 INTERSECTION	MO 4-8	24"X12"	1	450	450								
	"	M 3-3	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 6-1	21"X21"	1	450	450								RIGHT
96	STH 42, S. OF 18TH ST, PLACE JUST S. OF 18TH ST INTERSECTION IN BUMPOUT	MO 4-8	24"X12"	1	450	450								
	"	M 3-3	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	MO 5-1R	21"X21"	1	450	450								
97	STH 42, S. OF 19TH ST, PLACE JUST S. OF 19TH ST INTERSECTION IN BUMPOUT	M 3-3	24"X12"	1	450	450								
	"	M 1-6	24"X24"	1	450	450								42
	"	WO 20-2S	48"X48"	1	450	450								
98	STH 42, S. OF COLUMBUS ST, PLACE IN SW QUADRANT ON PAVED SHOULDER	R 11-3	60"X30"	1	450	450								3.3 MILES AHEAD
99	US 10, S. OF STH 42, COVER EXISTING SIGNS ON SIGN BRIDGE STRUCTURE AS SHOWN										1		1	COVER ENTIRE SIGN AS NEEDED
	"										1		1	COVER ENTIRE SIGN AS NEEDED
100	US 10, S. OF STH 42, COVER EXISTING SIGNS ON SIGN BRIDGE STRUCTURE AS SHOWN										1		1	COVER ENTIRE SIGN AS NEEDED
101	US 10, S. OF STH 42, COVER EXISTING SIGNS ON SIGN BRIDGE STRUCTURE AS SHOWN										1		1	COVER ENTIRE SIGN AS NEEDED
102	US 10, S. OF STH 42, COVER EXISTING SIGNS ON SIGN BRIDGE STRUCTURE AS SHOWN										1		1	COVER ENTIRE SIGN AS NEEDED
	"										1		1	COVER ENTIRE SIGN AS NEEDED
	PAGE SUBTOTALS			42		18,900	0	0	0	0		0	6	
	PROJECT TOTALS			**305**		**135,450**	**900**	**1,800**	**84**	**21**		**7**	**18**	

* ADDITONAL QUANTITIES SHOWN ELSEWHERE

PLAN SHEET PRODUCED

BY WisDOT - NE REGION

3

3

MARKING

ID	STATION	TO	STATION	LOCATION	646.1020 EPOXY 4-INCH (YELLOW) LF	646.1020 EPOXY 4-INCH (WHITE) LF	SPV.0090.08 EPOXY 6-INCH LF	646.3020 EPOXY 8-INCH LF	646.5020 ARROWS EPOXY EACH	646.5120 WORDS EPOXY EACH	646.6120 STOPLINE EPOXY 18-INCH LF	SPV.0090.15 YIELD LINE EPOXY 18-INCH LF	646.7120 DIAGONAL EPOXY 12-INCH LF	SPV.0090.14 DIAGONAL EPOXY 6-INCH LF	646.7420 CROSSWALK TRANSVERSE LINE EPOXY 6-INCH LF	SPV.0090.09 CROSSWALK TRANSVERSE LINE EPOXY 12-INCH LF	646.8120 CURB EPOXY LF	646.8220 ISLAND NOSE EPOXY EACH	REMARKS
PROJECT 1500-47-71																			
	38+00	-	70+00	USH 10, EB	-	770	-	-	-	-	-	-	-	-	-	-	-	-	
	38+00	-	70+00	USH 10, WB	-	770	-	-	-	-	-	-	-	-	-	-	-	-	
				USH 10, CTH R INTERSECTION	-	60	-	620	12	2	160	-	-	-	-	-	140	4	
				USH 10, N. 40TH ST INTERSECTION	-	-	-	78	1	-	-	-	-	-	70	-	40	2	
				USH 10, MOBILE PARK ENTRANCE	-	-	-	78	1	-	-	-	-	-	80	-	40	2	
				USH 10, GLENVIEW DR INTERSECTION	-	-	-	70	1	-	-	-	-	-	-	230	40	2	
				USH 10, W. CRESCENT DR INTERSECTION	-	-	-	-	-	-	-	-	-	-	90	-	40	2	
				USH 10, E. CRESCENT DR INTERSECTION	-	-	-	74	1	-	-	-	-	-	90	-	40	2	
	PROJECT TOTALS				1,600		0	920	16	2	160	0	0	0	330	230	340	14	
PROJECT 1500-37-71																			
	70+00	-	152+25	USH 10, EB	-	1,850	-	-	-	-	-	-	-	-	-	-	-	-	
	70+00	-	152+25	USH 10, WB	-	1,800	-	-	-	-	-	-	-	-	-	-	-	-	
				USH 10, FLEETWOOD DR INTERSECTION	-	-	90	110	2	-	25	-	-	140	149	165	40	4	
				USH 10, N. 23RD ST INTERSECTION	60	-	-	255	5	1	32	-	-	-	207	335	20	2	
				USH 10, MENCHL DR INTERSECTION	-	-	-	-	-	-	-	-	-	-	-	100	20	2	
				USH 10, N. 21ST ST INTERSECTION	-	-	-	160	2	-	36	-	-	-	171	335	20	2	
				USH 10, N. 20TH ST INTERSECTION	-	-	-	-	-	-	47	-	-	-	60	165	20	2	
				USH 10, PARK ROW BLVD INTERSECTION	-	-	-	-	-	-	-	-	-	-	62	-	20	2	
				USH 10, ELM ST INTERSECTION	-	-	-	-	-	-	-	-	-	-	77	158	20	2	
				USH 10, N. 18TH ST INTERSECTION	210	-	-	425	9	2	128	-	-	-	620	-	60	6	
				USH 10, N. 17TH ST INTERSECTION	-	-	-	20	-	-	-	-	-	-	142	332	20	2	
				USH 10, N. 16TH ST INTERSECTION	-	-	-	-	-	-	-	-	-	-	143	332	20	2	
				USH 10, N. 15TH ST INTERSECTION	-	-	-	-	-	-	30	-	-	-	470	-	20	2	
				USH 10, N. 14TH ST INTERSECTION	-	-	-	-	-	-	34	-	-	-	159	316	20	2	
				USH 10, N. 13TH ST INTERSECTION	-	-	-	-	1	-	-	-	-	-	133	198	-	-	
				USH 10, N. MENASHA AVE INTERSECTION	340	-	-	100	-	-	28	-	-	-	120	-	20	2	
				USH 10, N. 12TH ST INTERSECTION	-	-	-	-	-	-	-	-	-	-	153	116	-	-	
				N. 12TH ST, S. MENASHA AVE INTERSECTION	-	-	-	-	-	-	-	-	-	-	100	-	-	-	
				USH 10, N. 11TH ST INTERSECTION	130	-		205	6	2	95	-	-	-	520	-	60	6	
				USH 10, N. 10TH ST INTERSECTION	-	-	-	165	1	-	17	-	-	-	85	158	40	4	
				USH 10, N. 9TH ST INTERSECTION	-	-	-	135	2	-	30	-	-	-	480	-	20	2	
				USH 10, N. 8TH ST INTERSECTION	160	-	-	415	9	5	133	-	-	-	549	-	20	2	
	PROJECT TOTALS				4,550		90	1,990	37	10	635	0	0	140	4,400	2,710	460	46	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

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MARKING (CONTINUED)

ID	STATION	TO	STATION	LOCATION	646.1020 EPOXY 4-INCH (YELLOW) LF	646.1020 EPOXY 4-INCH (WHITE) LF	SPV.0090.08 EPOXY 6-INCH LF	646.3020 EPOXY 8-INCH LF	646.5020 ARROWS EPOXY EACH	646.5120 WORDS EPOXY EACH	646.6120 STOPLINE EPOXY 18-INCH LF	SPV.0090.15 YIELD LINE EPOXY 18-INCH LF	646.7120 DIAGONAL EPOXY 12-INCH LF	646.7120 DIAGONAL EPOXY 12-INCH LF	646.7420 CROSSWALK TRANSVERSE LINE EPOXY 6-INCH LF	SPV.0090.09 CROSSWALK TRANSVERSE LINE EPOXY 12-INCH LF	646.8120 CURB EPOXY LF	646.8220 ISLAND NOSE EPOXY EACH	REMARKS
PROJECT 4570-12-71																			
	152+25	-	186+92	STH 42, EB	-	0	-	-	-	-	-	-	-	-	-	-	-	-	
	152+25	-	187+81	STH 42, WB	-	860	-	-	-	-	-	-	-	-	-	-	-	-	
				STH 42, LINCOLN BLVD INTERSECTION	-	-	-	-	-	-	46	-	-	-	207	335	20	2	
				STH 42, N. 6TH ST INTERSECTION	-	-	-	-	-	-	30	-	-	-	154	165	20	2	
				STH 42, N. 5TH ST INTERSECTION	-	-	-	-	-	-	19	-	-	-	89	160	20	2	
	172+55			STH 42, EB & WB	-	-	-	-	-	-	-	-	-	-	-	100	-	-	CROSSWALK
	184+00	-	184+50	STH 42, EB	-	-	-	-	-	-	-	-	-	-	100	-	20	2	
				ROUNDABOUT	-	1,100	-	1,420	12	5	-	90	50	180	340	-	40	4	INCLUDES MARITIME & MEMORIAL DR
	PROJECT TOTALS				1,960		0	1,420	12	5	95	90	50	180	890	760	120	12	
	TOTALS				8,110		90	4,330	65	17	890	90	50	320	5,620	3,700	920	72	

GEOTEXTILE AND GEOGRID

ID	STATION	LOCATION	645.0140 GEOTEXTILE TYPE SAS SY	645.0220 GEOGRID TYPE SR SY
1500-37-71				
	10+50	EMERGENCY RR CROSSING	50	-
	10+70	EMERGENCY RR CROSSING	50	-
	UNDISTRIBUTED	EBS AREAS	-	1,000
	PROJECT TOTALS		100	1,000
PROJECT 4570-12-71				
	UNDISTRIBUTED	EBS AREAS	-	1,000
	PROJECT TOTALS		0	1,000
	TOTALS		100	2,000

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

3

MARKING REMOVAL

ID	PROJECT STAGE	LOCATION	646.9000 LINE 4-INCH LF	646.9010 LINE WATER BLASTING 4-INCH LF	646.9100 LINE 8-INCH LF	646.9110 LINE WATER BLASTING 8-INCH LF	646.9300 SPECIAL MARKING EA	646.9310 SPECIAL MARKING WATER BLASTING EA
PROJECT 1500-37-71								
	1A	8TH ST	---	---	35	---	---	---
	2A	18TH ST. (PHASE 1)	---	755	---	115	---	5
		PROJECT 1500-37-71 TOTALS	0	755	35	115	0	5
PROJECT4570-12-71								
	1A	STH 42/MARITIME DRIVE ROUNDABOUT - STAGE 1	15	455	375	---	3	---
	1A	STH 42/MARITIME DRIVE ROUNDABOUT - STAGE 2	---	100	---	---	---	---
	1A	STH 42/MARITIME DRIVE ROUNDABOUT - STAGE 3	---	65	---	---	---	---
		PROJECT 4570-12-71 TOTALS	15	620	375	0	3	0
		TOTAL	15	1375	410	115	3	5

TEMPORARY MARKING LINE

ID	PROJECT STAGE	LOCATION	649.0105 PAINT 4-INCH LF	649.0150 REMOVABLE TAPE 4-INCH LF
PROJECT 1500-37-71				
	1A	8TH ST	---	375
	1B	8TH ST (PHASE 1)	---	125
	1B	8TH ST (PHASE 2)	---	350
	1C	11TH ST (PHASE 1)	---	125
	2A	18TH ST. (PHASE 1)	---	915
	2A	18TH ST. (PHASE 2)	---	125
		PROJECT TOTALS	0	2015
PROJECT4570-12-71				
	1A	STH 42/MARITIME DRIVE ROUNDABOUT - STAGE 1	2030	2120
	1A	STH 42/MARITIME DRIVE ROUNDABOUT - STAGE 2	675	3630
	1A	STH 42/MARITIME DRIVE ROUNDABOUT - STAGE 3	---	390
		PROJECT TOTALS	2705	6140
		TOTALS	2705	8155

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

CONSTRUCTION STAKING

ID	CATEGORY	STATION	TO	STATION	LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.5500 CURB, GUTTER, AND CURB AND GUTTER LF	650.6500 STRUCTURE LAYOUT LS	650.7000 CONCRETE PAVEMENT LF	650.8000 RESURFACING REFERENCE LF	650.8500 ELECTRICAL INSTALLATIONS LS	650.9910 SUPPLEMENTAL CONTROL LS	650.9920 SLOPE STAKES LF	SPV.0105.02 EMERGENCY VEHICLE RR CROSSING LS	SPV.0105.03 TREES AND LANDSCAPING PROJECT 1500-37-71 LS	SPV.0105.04 TREES AND LANDSCAPING PROJECT 4570-12-71 LS
PROJECT 1500-47-71																	
	0010																
		38+00	-	70+00	USH 10 / STH 42	-	-	-	-	-	3,200	-	1	-	-	-	-
	CATEGORY 0010 TOTALS					0	0	0	0	0	3,200	0	1	0	0	0	0
	PROJECT TOTALS					0	0	0	0	0	3,200	0	1	0	0	0	0
PROJECT 1500-37-71																	
	0010																
		70+00	-	152+25	USH 10 / STH 42, EB	8,225	-	-	-	8,225	-	-	1	8,225	-	1	-
		70+00	-	152+25	USH 10 / STH 42, WB	8,225	-	-	-	8,225	-	-	-	8,225	-	-	-
		10+25	-	10+85	FLEETWOOD DR	60	-	-	-	60	-	-	-	60	-	-	-
		9+40	-	9+75	N. 23RD ST	35	-	-	-	35	-	-	-	35	-	-	-
		10+49	-	10+95	N. 23RD ST	46	-	-	-	46	-	-	-	46	-	-	-
		9+10	-	9+74	MENCHL DR	64	-	-	-	64	-	-	-	64	-	-	-
		9+35	-	9+75	N. 21ST ST	40	-	-	-	40	-	-	-	40	-	-	-
		10+49	-	11+00	N. 21ST ST	51	-	-	-	51	-	-	-	51	-	-	-
		9+40	-	9+75	N. 20TH ST	35	-	-	-	35	-	-	-	35	-	-	-
		10+49	-	10+85	PARK ROW BLVD, SB	36	-	-	-	36	-	-	-	36	-	-	-
		10+25	-	10+60	PARK ROW BLVD, NB	35	-	-	-	35	-	-	-	35	-	-	-
		10+25	-	10+65	ELM ST	40	-	-	-	40	-	-	-	40	-	-	-
		9+00	-	9+75	N. 18TH ST	75	-	-	-	75	-	-	-	75	-	-	-
		10+49	-	11+15	N. 18TH ST	66	-	-	-	66	-	-	-	66	-	-	-
		9+25	-	9+75	N. 17TH ST	50	-	-	-	50	-	-	-	50	-	-	-
		10+49	-	11+15	N. 17TH ST	66	-	-	-	66	-	-	-	66	-	-	-
		9+23	-	9+75	N. 16TH ST	52	-	-	-	52	-	-	-	52	-	-	-
		10+49	-	10+85	N. 16TH ST	36	-	-	-	36	-	-	-	36	-	-	-
		9+35	-	9+75	N. 15TH ST	40	-	-	-	40	-	-	-	40	-	-	-
		10+49	-	11+00	N. 15TH ST	51	-	-	-	51	-	-	-	51	-	-	-
		9+30	-	9+75	N. 14TH ST	45	-	-	-	45	-	-	-	45	-	-	-
		10+49	-	10+85	N. 14TH ST	36	-	-	-	36	-	-	-	36	-	-	-
		9+35	-	9+75	N. 13TH ST	40	-	-	-	40	-	-	-	40	-	-	-
		8+85	-	9+86	MENASHA ST (SOUTH)	101	-	-	-	101	-	-	-	101	-	-	-
		10+25	-	12+11	MENASHA ST (NORTH)	186	-	-	-	186	-	-	-	186	-	-	-
		8+15	-	9+75	N. 12TH ST	160	-	-	-	160	-	-	-	160	-	-	-
		10+49	-	10+85	N. 12TH ST	36	-	-	-	36	-	-	-	36	-	-	-
		9+35	-	9+75	N. 11TH ST	40	-	-	-	40	-	-	-	40	-	-	-
		10+49	-	11+27	N. 11TH ST	78	-	-	-	78	-	-	-	78	-	-	-
		9+35	-	9+75	N. 10TH ST	40	-	-	-	40	-	-	-	40	-	-	-
		9+00	-	9+75	N. 9TH ST	75	-	-	-	75	-	-	-	75	-	-	-
		10+49	-	12+70	N. 9TH ST	221	-	-	-	221	-	-	-	221	-	-	-
		8+50	-	9+75	N. 8TH ST	125	-	-	-	125	-	-	-	125	-	-	-
		10+50	-	12+90	N. 8TH ST	240	140	75	-	100	-	-	-	240	-	-	-
		10+20	-	11+45	EMERGENCY RR CROSSING	-	-	-	-	-	-	-	-	-	1	-	-
	CATEGORY 0010 TOTALS					18,751	140	75	0	18,611	0	0	1	18,751	1	1	0

NOTE: STORM SEWER STAKING IS SHOWN WITH STORM SEWER STRUCTURES.

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

CONSTRUCTION STAKING (CONTINUED)

	STATION	TO	STATION	LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.5500 CURB, GUTTER, AND CURB AND GUTTER LF	650.6500 STRUCTURE LAYOUT LS	650.7000 CONCRETE PAVEMENT LF	650.8000 RESURFACING REFERENCE LF	650.8500 ELECTRICAL INSTALLATIONS LS	650.9910 SUPPLEMENTAL CONTROL LS	650.9920 SLOPE STAKES LF	SPV.0105.02 EMERGENCY VEHICLE RR CROSSING LS	SPV.0105.03 TREES AND LANDSCAPING PROJECT 1500-37-71 LS	SPV.0105.04 TREES AND LANDSCAPING PROJECT 4570-12-71 LS
0030																
	82+00	-	84+62	B-36-29	-	-	-	1	-	-	-	-	-	-	-	-
	CATEGORY 0030 TOTALS				0	0	0	1	0	0	0	0	0	0	0	0
0050																
	70+00	-	152+25	USH 10 / STH 42	-	-	-	-	-	-	1	-	-	-	-	-
	CATEGORY 0050 TOTALS				0	0	0	0	0	0	1	0	0	0	0	0
0070																
	70+40	-	70+62	B-36-232	-	-	-	1	-	-	-	-	-	-	-	-
	CATEGORY 0070 TOTALS				0	0	0	1	0	0	0	0	0	0	0	0
	PROJECT TOTALS				18,751	140	75	2	18,611	0	1	1	18,751	1	1	0
PROJECT 4570-12-71																
0010																
	152+25	-	188+97	STH 42, EB	3,672	-	-	-	3,672	-	-	1	3,672	-	-	1
	152+25		189+01	STH 42, WB	3,676	-	-	-	3,676	-	-	-	3,676	-	-	-
	190+44		194+90	STH 42, EB	446	-	185	-	446	-	-	-	446	-	-	-
	190+42	-	196+49	STH 42, WB	607	-	-	-	607	-	-	-	607	-	-	-
	9+10	-	9+75	W. LINCOLN BLVD	65	-	-	-	65	-	-	-	65	-	-	-
	10+49	-	10+85	W. LINCOLN BLVD	36	-	-	-	36	-	-	-	36	-	-	-
	9+10	-	9+75	E. LINCOLN BLVD	65	-	-	-	65	-	-	-	65	-	-	-
	10+49	-	10+85	E. LINCOLN BLVD	36	-	-	-	36	-	-	-	36	-	-	-
	9+35	-	9+75	N. 6TH ST	40	-	-	-	40	-	-	-	40	-	-	-
	10+49	-	11+00	N. 6TH ST	51	-	-	-	51	-	-	-	51	-	-	-
	10+25	-	10+60	N. 5TH ST	35	-	-	-	35	-	-	-	35	-	-	-
	0+00	-	3+77	ROUNDABOUT CIRCLE	377	-	-	-	377	-	-	-	377	-	-	-
	11+25	-	13+33	MARITIME DR, SB	208	-	-	-	208	-	-	-	208	-	-	-
	10+75	-	14+09	MARITIME DR, NB	334	-	-	-	334	-	-	-	334	-	-	-
	12+50	-	14+15	MARITIME DR, MEDIAN EAST	165	-	-	-	165	-	-	-	165	-	-	-
	CATEGORY 0010 TOTALS				9,813	0	185	0	9,813	0	0	1	9,813	0	0	1
0030																
	179+10	-	179+40	B-36-900	-	-	-	1	-	-	-	-	-	-	-	-
	CATEGORY 0040 TOTALS				0	0	0	1	0	0	0	0	0	0	0	0
0050																
	152+25	-	188+97	STH 42	-	-	-	-	-	-	1	-	-	-	-	-
	CATEGORY 0050 TOTALS				0	0	0	0	0	0	1	0	0	0	0	0
	PROJECT TOTALS				9,813	0	185	1	9,813	0	1	1	9,813	0	0	1
	TOTALS				28,564	140	260	3	28,424	3,200	2	3	28,564	1	1	1

NOTE: STORM SEWER STAKING IS SHOWN WITH STORM SEWER STRUCTURES.

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

CONDUIT RIGID NONMETALLIC

ID	CATEGORY	UNIT	TO	UNIT	STATION	TO	STATION	LOCATION	652.0225 * SCHEDULE 40 2-INCH LF
PROJECT 1500-37-71									
	0050								
		1-31	-	PB-20		71+05		USH 10, RT	65
		PB-20	-	4-9	71+05	-	72+75	USH 10, RT	170
		4-9	-	4-8	72+75	-	74+40	USH 10, RT	165
		4-8	-	4-7	74+40	-	76+20	USH 10, RT	180
		4-7	-	4-6	76+20	-	78+00	USH 10, RT	180
		4-6	-	PB-19	78+00	-	78+51	USH 10, RT	51
		PB-19	-	MPU PED		78+51		USH 10	150
		PB-19	-	4-5	78+51	-	80+00	USH 10, RT	149
		4-5	-	4S-2	80+00	-	82+00	USH 10, RT	200
		4S-1	-	4-4	84+75	-	86+35	USH 10, RT	160
		4-4	-	4-3	86+35	-	88+15	USH 10, RT	180
		4-3	-	4-2	88+15	-	90+00	USH 10, RT	185
		4-2	-	4-1	90+00	-	92+00	USH 10, RT	200
		4-1	-	PB-18	92+00	-	92+46	USH 10, RT	50
		1-30	-	1-29	94+10	-	97+10	USH 10, MEDIAN	300
		PB-17	-	1-29	96+72	-	97+10	USH 10, RT	80
		1-29	-	1-28	97+10	-	99+85	USH 10, MEDIAN	275
		1-27	-	1-26	102+35	-	105+05	USH 10, MEDIAN	270
		1-26	-	PB-16	105+05	-	106+00	USH 10, MEDIAN	95
		PB-16	-	PB-15	106+00		106+38	N. 20TH ST, LT	135
		PB-16	-	1-25	106+00	-	108+00	USH 10, MEDIAN	200
		1-25	-	1-24	108+00	-	110+50	USH 10, MEDIAN	250
		1-24	-	1-23	110+50	-	113+20	USH 10, MEDIAN	270
		1-23	-	1-22	113+20	-	115+55	USH 10, MEDIAN	235
		1-21	-	1-20	120+60	-	123+50	USH 10, MEDIAN	290
		1-20	-	1-19	123+50	-	126+35	USH 10, MEDIAN	285
		1-19	-	PB-14	126+35	-	127+55	USH 10, MEDIAN	120
		PB-14	-	PB-13	127+55	-	127+95	N. 15TH ST, LT	80
		PB-14	-	1-18	127+55		129+10	USH 10, MEDIAN	155
		1-18	-	1-17	129+10	-	132+10	USH 10, MEDIAN	300
		1-16	-	1-15	135+25	-	137+25	USH 10, MEDIAN	200
		1-15	-	PB-11	137+25	-	138+46	USH 10, MEDIAN	121
		PB-11	-	PB-12		138+46		USH 10, RT	45
		PB-11	-	1-14	138+46	-	139+10	USH 10, MEDIAN	64
		PB-10	-	PB-9	141+31	-	141+81	N. 11TH ST	50
		PB-9	-	PB-8	141+81	-	142+05	N. 11TH ST, RT	55
		PB-8	-	PB-7		142+05		USH 10	85
		PB-7	-	2-5	142+05	-	142+75	USH 10, RT	70
		PB-8	-	2-4	142+05	-	144+25	USH 10, LT	220
		2-5	-	2-3	142+75	-	146+00	USH 10, RT	325
		2-4	-	2-2	144+25	-	147+50	USH 10, LT	325
		2-3	-	2-1	146+00	-	149+15	USH 10, RT	315
			4-9			72+75		USH 10, RT	5
			4-8			74+40		USH 10, RT	5
			4-7			76+20		USH 10, RT	5

CONDUIT RIGID NONMETALLIC (CONTINUED)

ID	CATEGORY	UNIT	TO	UNIT	STATION	TO	STATION	LOCATION	652.0225 * SCHEDULE 40 2-INCH LF
PROJECT 1500-37-71									
	0050								
			4-6			78+00		USH 10, RT	5
			4-5			80+00		USH 10, RT	5
			4S-2			82+00		USH 10, RT	5
			4S-1			84+75		USH 10, RT	5
			4-4			86+35		USH 10, RT	5
			4-3			88+15		USH 10, RT	5
			4-2			90+00		USH 10, RT	5
			4-1			92+00		USH 10, RT	5
			1-30			94+10		USH 10, MEDIAN	5
			1-29			97+10		USH 10, MEDIAN	10
			1-28			99+90		USH 10, MEDIAN	5
			1-27			102+35		USH 10, MEDIAN	5
			1-26			105+05		USH 10, MEDIAN	10
			1-25			108+00		USH 10, MEDIAN	5
			1-24			110+50		USH 10, MEDIAN	10
			1-23			113+20		USH 10, MEDIAN	10
			1-22			115+55		USH 10, MEDIAN	5
			1-21			120+60		USH 10, MEDIAN	5
			1-20			123+50		USH 10, MEDIAN	10
			1-19			126+35		USH 10, MEDIAN	10
			1-18			129+10		USH 10, MEDIAN	10
			1-17			132+10		USH 10, MEDIAN	10
			1-16			135+25		USH 10, MEDIAN	10
			1-15			137+25		USH 10, MEDIAN	10
			1-14			139+10		USH 10, MEDIAN	5
			2-5			142+75		USH 10, RT	5
			2-4			144+25		USH 10, LT	5
			2-3			146+00		USH 10, RT	5
			2-2			147+50		USH 10, LT	5
			2-1			149+15		USH 10, RT	5
		PROJECT TOTAL							7,515
PROJECT 4570-12-71									
	0050								
		1-13	-	1-12	154+00	-	156+90	STH 42, MEDIAN	290
		1-12	-	1-11	156+90	-	159+25	STH 42, MEDIAN	235
		1-11	-	1-10	159+25	-	161+80	STH 42, MEDIAN	255
		1-10	-	1-9	161+80	-	164+35	STH 42, MEDIAN	255
		1-9	-	PB-6	164+35	-	164+85	STH 42, MEDIAN	50
		PB-6	-	PB-6A		164+85		STH 42, LT	85
		PB-6	-	1-8	164+85	-	166+80	STH 42, MEDIAN	195
		1-7	-	1-6	169+80	-	172+70	STH 42, MEDIAN	290
		1-6	-	1-5	172+70	-	175+70	STH 42, MEDIAN	300
		1-5	-	1-4	175+70	-	178+70	STH 42, MEDIAN	300

* ADDITONAL QUANTITIES SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

CONDUIT RIGID NONMETALLIC (CONTINUED)

ID	CATEGORY	UNIT	TO	UNIT	STATION	TO	STATION	LOCATION	652.0225 * SCHEDULE 40 2-INCH LF
PROJECT 4570-12-71									
	0050	1-4	-	1-3	178+70	-	181+74	STH 42, MEDIAN	305
		1-3	-	PB-5		181+74		STH 42, LT	50
		1-3	-	1-2	181+74	-	184+85	STH 42, MEDIAN	310
		1-2	-	1-1	184+85	-	187+25	STH 42, MEDIAN	240
		3-1	-	3-2	188+22	-	188+71	STH 42, LT	50
		3-2	-	3-3	188+71	-	189+65	STH 42, LT	95
		3-3	-	3-4	189+65	-	190+86	STH 42, LT	120
		3-4	-	3-5	190+86	-	191+76	STH 42, LT	90
		3-5	-	PB-1	191+76	-	192+36	STH 42, LT	60
		3-13	-	3-12	187+98	-	0+84	STH 42, RT	60
		3-12	-	3-11	0+84	-	189+17	STH 42, RT	40
		PB-4	-	3-11	187+63	-	189+17	STH 42, RT	120
		3-11	-	3-10	189+17	-	189+86	STH 42, RT	70
		3-10	-	3-8	189+86	-	190+53	STH 42, RT	105
		3-9	-	3-8	1+78	-	190+53	STH 42, RT	40
		3-8	-	3-7	190+53	-	190+82	STH 42, RT	40
		3-7	-	3-6	190+82	-	191+15	STH 42, RT	30
		3-6	-	PB-3	191+15	-	191+12	STH 42, RT	35
		3-6	-	PB-2	191+15	-	191+65	STH 42, RT	55
			1-13			154+00		STH 42, MEDIAN	15
			1-12			156+90		STH 42, MEDIAN	15
			1-11			159+25		STH 42, MEDIAN	15
			1-10			161+80		STH 42, MEDIAN	15
			1-9			164+35		STH 42, MEDIAN	15
			1-8			166+80		STH 42, MEDIAN	15
			1-7			169+80		STH 42, MEDIAN	15
			1-6			172+70		STH 42, MEDIAN	15
			1-5			175+70		STH 42, MEDIAN	15
			1-4			178+70		STH 42, MEDIAN	15
			1-3			181+70		STH 42, MEDIAN	15
			1-2			184+85		STH 42, MEDIAN	15
			1-1			187+25		STH 42, MEDIAN	5
			3-1			188+22		STH 42, LT	5
			3-2			188+71		STH 42, LT	5
			3-3			189+65		STH 42, LT	5
			3-4			190+86		STH 42, LT	5
			3-5			191+76		STH 42, LT	5
			3-13			187+98		STH 42, RT	5
			3-12			0+84		ROUNDABOUT CIRCLE, RT	5
			3-11			189+17		STH 42, RT	5
			3-10			189+86		STH 42, RT	5
			3-9			1+78		ROUNDABOUT CIRCLE, RT	5
			3-8			190+53		STH 42, RT	5
			3-7			190+82		STH 42, RT	5
			3-6			191+15		STH 42, RT	5
	PROJECT TOTAL								4,420
	TOTAL								11,935

* ADDITONAL QUANTITIES SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

REMOVING CONCRETE BASES*

ID	INTERSECTION	204.0195 EACH
PROJECT 1500-47-71		
	USH 10 & CTH R	12
	PROJECT TOTALS	**12**
PROJECT 1500-37-71		
	USH 10 & 18TH AVE	9
	USH & 11TH ST	12
	USH 10 & 8TH ST	12
	PROJECT TOTALS	**33**
	PROJECT TOTAL (1500-47-71)	**12**
	PROJECT TOTAL (1500-37-71)	**33**
	TOTAL	**45**

REMOVING PULL BOXES*

ID	INTERSECTION	653.0905 EACH
PROJECT 1500-47-71		
	USH 10 & CTH R	13
	PROJECT TOTALS	**13**
PROJECT 1500-37-71		
	USH 10 & 18TH AVE	14
	USH & 11TH ST	13
	USH 10 & 8TH ST	3
	PROJECT TOTALS	**30**
	PROJECT TOTAL (1500-47-71)	**13**
	PROJECT TOTAL (1500-37-71)	**30**
	TOTAL	**43**

REMOVE TRAFFIC SIGNALS

LOCATION	SPV.0105.61 LS	SPV.0105.62 LS	SPV.0105.63 LS	SPV.0105.64 LS
PROJECT ID: 1500-47-71				
.61 USH 10 & CTH R	1	--	--	--
SUBTOTAL	**1**	**0**	**0**	**0**
PROJECT ID: 1500-37-71				
.62 USH 10 & 18TH ST.	--	1	--	--
.63 USH 10 & 11TH ST.	--	--	1	--
.64 USH 10 & 8TH AVE.	--	--	--	1
SUBTOTAL	**0**	**1**	**1**	**1**
PROJECT TOTAL (1500-47-71)	**1**	**0**	**0**	**0**
PROJECT TOTAL (1500-37-71)	**0**	**1**	**1**	**1**
PROJECT TOTAL	**1**	**1**	**1**	**1**

* QUANTITIES INCLUDED ELSEWHERE IN THE PLAN.
ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

CONDUIT

INTERSECTION: USH 10 & CTH R			652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH	652.0615 CONDUIT SPECIAL 3-INCH
ID	FROM	TO	LF	LF	LF
PROJECT 1500-47-71					
	CABINET (CTH R)	PB1	--	72	--
	CABINET (CTH R)	PB18	--	33	--
	PB1	PB2	--	18	--
	PB1	PB3	--	128	--
	PB3	PB4	--	--	122
	PB4	PB5	--	--	164
	PB5	PB6	88	--	--
	PB5	PB9	--	--	90
	PB6	PB7	44	--	--
	PB7	PB8	91	--	--
	PB9	PB10	--	80	--
	PB10	PB11	20	--	--
	PB10	PB12	--	98	--
	PB12	PB13	--	--	116
	PB13	PB14	--	100	--
	PB14	PB15	128	--	--
	PB14	PB17	--	--	100
	PB17	PB18	--	--	98
	PB1	SB1	9	--	--
	PB4	SB2	--	13	--
	PB4	SB3	33	--	--
	PB9	SB4	--	16	--
	PB10	SB5	16	--	--
	PB13	SB6	--	22	--
	PB14	SB7	24	--	--
	PB18	SB8	--	15	--
		SUBTOTAL	**453**	**595**	**690**

CONDUIT "CONTINUED"

INTERSECTION: USH 10 & 18TH ST			652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH	652.0615 CONDUIT SPECIAL 3-INCH
ID	FROM	TO	LF	LF	LF
PROJECT 1500-37-71					
	CABINET (18TH ST.)	PB1	--	54	--
	CABINET (18TH ST.)	PB14	--	69	--
	PB1	PB2	--	42	--
	PB2	PB3	--	20	--
	PB2	PB4	--	98	--
	PB4	PB5	--	82	--
	PB5	PB6	117	--	--
	PB6	PB7	125	--	--
	PB5	PB8	--	100	--
	PB8	PB9	--	80	--
	PB9	PB10	--	80	--
	PB10	PB11	--	132	--
	PB11	PB12	--	124	--
	PB12	PB13	--	117	--
	PB13	PB14	125	--	--
	PB14	PB15	125	--	--
	PB13	PB16	--	96	--
	PB16	PB17	--	66	--
	PB1	SB1	11	--	--
	PB1	SB2	12	--	--
	PB4	SB3	--	14	--
	PB5	SB4	11	--	--
	PB9	SB5	--	20	--
	PB9	SB6	10	--	--
	PB10	SB7	18	--	--
	PB11	SB8	--	11	--
	PB12	SB9	44	--	--
	PB12	SB10	27	--	--
	PB17	SB11	--	23	--

* QUANTITIES INCLUDED ELSEWHERE IN THE PLAN.
ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

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CONDUIT "CONTINUED"

INTERSECTION: USH 10 & 11TH ST.			652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH	652.0615 CONDUIT SPECIAL 3-INCH
ID	FROM	TO	LF	LF	LF
PROJECT 1500-37-71					
	CABINET (11TH ST.)	PB1	--	78	--
	CABINET (11TH ST.)	PB14	--	57	--
	PB1	PB2	105	--	--
	PB2	PB3	125	--	--
	PB1	PB4	--	50	--
	PB4	PB5	--	78	--
	PB5	PB6	--	68	--
	PB6	PB7	--	92	--
	PB7	PB8	--	80	--
	PB8	PB9	104	--	--
	PB9	PB10	125	--	--
	PB8	PB11	--	98	--
	PB11	PB12	--	70	--
	PB12	PB13	--	80	--
	PB13	PB14	--	98	--
	PB1	SB1	16	--	--
	PB5	SB2	--	13	--
	PB6	SB3	6	--	--
	PB7	SB4	6	--	--
	PB7	SB5	7	--	--
	PB8	SB6	19	--	--
	PB12	SB7	--	13	--
	PB12	SB8	11	--	--
	PB13	SB9	16	--	--
	PB14	SB10	15	--	--
	SUBTOTAL		**555**	**875**	**0**

CONDUIT "CONTINUED"

INTERSECTION: USH 10 & 8TH ST.			652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH	652.0615 CONDUIT SPECIAL 3-INCH
ID	FROM	TO	LF	LF	LF
PROJECT 1500-37-71					
	CABINET (8TH ST.)	PB1	--	21	--
	CABINET (8TH ST.)	PB15	--	21	--
	PB1	PB2	--	92	--
	PB2	PB3	--	112	--
	PB3	PB4	--	64	--
	PB5	PB6	195	--	--
	PB4	PB5	--	92	--
	PB5	PB7	--	76	--
	PB7	PB8	--	80	--
	PB8	PB9	--	98	--
	PB9	PB10	--	80	--
	PB10	PB11	--	78	--
	PB11	PB14	--	84	--
	PB11	PB12	110	--	--
	PB12	PB13	125	--	--
	PB14	PB15	--	90	--
	PB3	SB1	10	--	--
	PB4	SB2	6	--	--
	PB7	SB3	--	7	--
	PB8	SB4	16	--	--
	PB9	SB5	5	--	--
	PB9	SB6	11	--	--
	PB10	SB7	13	--	--
	PB14	SB8	--	13	--
	PB15	SB9	14	--	--
		SUBTOTAL	**505**	**1008**	**0**
		PROJECT TOTAL (1500-47-71)	**453**	**595**	**690**
		PROJECT TOTAL (1500-37-71)	**1685**	**3111**	**0**
		PROJECT TOTAL	**2138**	**3706**	**690**

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* QUANTITIES INCLUDED ELSEWHERE IN THE PLAN.
ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

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TRAFFIC DETECTOR LOOPS

INTERSECTION: USH 10 & CTH R

ID	LOOP NO.	HOME RUN PB.	LOCATION*	SIZE (FT. X FT.)	NO. OF TURNS	PAVEMENT	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR LF	655.0700 LOOP DETECTOR LEAD-IN CABLE ^ LF	655.0800 LOOP DETECTOR WIRE LF
PROJECT 1500-47-71										
	11	PB17	38+25 EB 4' LT	6' X 24'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	84	72	300
	12	PB17	38+54 EB 4' LT	6' X 24'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	96	208	324
	21	PB8	42+20 WB 12' LT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	96	488	308
	22	PB7	41+18 WB 11' LT	6' X 20'	3	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	92	392	228
	41	PB3	39+15 WB 56' LT	6' X 30'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	112	100	380
	42	PB2	39+03 WB 56' LT	6' X 30'	3	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	110	54	285
	43	PB2	38+91 WB 56' LT	6' X 30'	3	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	132	54	318
	51	PB6	40+96 WB 7' RT	6' X 6'	3	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	52	349	126
	52	PB5	40+14 WB 7' RT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	90	255	296
	53	PB5	39+86 WB 7' RT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	76	255	204
	61	PB16	36+38 EB 11' LT	6' X 24'	4	CONCRETE	EXISTING LOOP DETECTOR	--	324	312
	62	PB15	36+95 EB 11' LT	6' X 24'	4	CONCRETE	EXISTING LOOP DETECTOR	--	262	312
	81	PB12	39+31 EB 51' RT	6' X 30'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	104	427	364
	82	PB11	39+43 EB 51' RT	6' X 3'	3	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	60	378	129
	83	PB11	39+54 EB 51' RT	6' X 20'	3	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	76	378	204
							SUBTOTAL	**1180**	**3996**	**4090**

^ ADDITIONAL QUANTITY WITH CABLE TRAFFIC SIGNAL ITEMS
* LOCATION IS TO FRONT CENTER OF DETECTOR

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

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TRAFFIC DETECTOR LOOPS 'CONTINUED'

INTERSECTION: USH 10 & 18TH AVE.

ID	LOOP NO.	HOME RUN PB.	LOCATION*	SIZE (FT. X FT.)	NO. OF TURNS	PAVEMENT	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR LF	655.0700 LOOP DETECTOR LEAD-IN CABLE ^ LF	655.0800 LOOP DETECTOR WIRE LF
PROJECT 1500-37-71										
	11	PB16	117+39 WB 14' RT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	72	76	260
	12	PB16	117+67 WB 14' RT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	72	76	260
	21	PB7	121+20 WB 12' LT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	66	431	248
	22	PB6	119+96 WB 12' LT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	66	296	248
	31	PB10	118+28 EB 68' LT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	102	327	320
	32	PB10	118+28 EB 42' RT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	102	327	320
	41	PB3	118+09 WB 69' LT	6' X 20'	3	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	68	80	192
	42	PB2	118+09 WB 41' LT	6' X 20'	3	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	68	60	192
	51	PB8	119+05 WB 10' RT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	82	230	280
	52	PB8	118+79 WB 10' RT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	78	230	272
	61	PB15	115+23 EB 11' RT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	72	375	260
	62	PB14	116+47 EB 11' RT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	72	240	260
	71	PB3	118+19 WB 69' LT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	88	80	292
	72	PB2	118+19 WB 41' LT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	88	60	292
	81	PB10	118+37 EB 68' RT	6' X 20'	3	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	82	327	213
	82	PB10	118+37 EB 42' RT	6' X 20'	3	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	82	327	213
							SUBTOTAL	**1260**	**3542**	**4122**

^ ADDITIONAL QUANTITY WITH CABLE TRAFFIC SIGNAL ITEMS
* LOCATION IS TO FRONT CENTER OF DETECTOR

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

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TRAFFIC DETECTOR LOOPS 'CONTINUED'

INTERSECTION: USH 10 & 11TH ST.

ID	LOOP NO.	HOME RUN PB.	LOCATION*	SIZE (FT. X FT.)	NO. OF TURNS	PAVEMENT	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR LF	655.0700 LOOP DETECTOR LEAD-IN CABLE ^ LF	655.0800 LOOP DETECTOR WIRE LF
PROJECT 1500-37-71										
	11	PB11	140+88 WB 13' RT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	68	195	252
	12	PB11	141+16 WB 13' RT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	68	195	252
	21	PB3	144+42 WB 12' LT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	68	271	252
	22	PB2	143+17 WB 12' LT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	66	140	248
	41	PB13	141+41 WB 66' LT	6' X 20'	3	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	66	83	189
	42	PB13	141+50 WB 66' LT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	86	83	288
	43	PB13	141+50 WB 38' LT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	86	83	288
	51	PB4	142+38 WB 10' RT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	80	86	276
	52	PB4	142+10 WB 10' RT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	68	86	252
	61	PB10	138+70 EB 12' RT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	66	462	248
	62	PB9	139+94 EB 12' RT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	66	336	248
							SUBTOTAL	**788**	**2020**	**2793**

^ ADDITIONAL QUANTITY WITH CABLE TRAFFIC SIGNAL ITEMS
* LOCATION IS TO FRONT CENTER OF DETECTOR

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

TRAFFIC DETECTOR LOOPS 'CONTINUED'

INTERSECTION: USH 10 & 8TH ST.

ID	LOOP NO.	HOME RUN PB.	LOCATION*	SIZE (FT. X FT.)	NO. OF TURNS	PAVEMENT	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR LF	655.0700 LOOP DETECTOR LEAD-IN CABLE ^ LF	655.0800 LOOP DETECTOR WIRE LF
PROJECT 1500-37-71										
	11	PB5	150+78 WB 18' RT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	90	185	296
	12	PB5	151+05 WB 18' RT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	76	185	268
	21	PB13	154+36 WB 13' LT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	80	359	276
	22	PB12	153+11 WB 13' LT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	80	228	276
	41	PB8	151+36 WB 68' LT	6' X 20'	3	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	78	259	207
	42	PB8	151+45 WB 68' LT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	92	259	300
	43	PB8	151+45 WB 41' LT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	88	259	292
	61	PB6	149+03 EB 12' RT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	68	339	252
	81	PB2	151+37 EB 65' RT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	78	65	272
	82	PB2	151+50 EB 65' RT	6' X 20'	3	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	94	65	231
	83	PB3	151+37 EB 38' RT	6' X 20'	4	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	78	98	272
	84	PB3	151+50 EB 39' RT	6' X 20'	3	CONCRETE	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT) SDD 9F9-4	94	98	231
							SUBTOTAL	**996**	**2399**	**3173**

^ ADDITIONAL QUANTITY WITH CABLE TRAFFIC SIGNAL ITEMS
* LOCATION IS TO FRONT CENTER OF DETECTOR

PROJECT TOTAL (1500-47-71)	**1180**	**3996**	**4090**
PROJECT TOTAL (1500-37-71)	**3044**	**7961**	**10088**
PROJECT TOTAL	**4224**	**11957**	**14178**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

CONCRETE BASES

INTERSECTION: USH 10 & CTH R					654.0101* CONCRETE BASES TYPE 1	654.0102 CONCRETE BASES TYPE 2	654.0110 CONCRETE BASES TYPE 10	654.0113 CONCRETE BASES TYPE 13	654.0217 CONCRETE CONTROL CABINET BASE TYPE 9 SPECIAL
ID	BASE NO.	STATION		OFFSET	EACH	EACH	EACH	EACH	EACH
PROJECT 1500-47-71									
	CABINET (CTH R)	38+46	WB	46' LT	--	--	--	--	1
	SB1	38+72	WB	60' LT	1	--	--	--	--
	SB2	39+80	WB	73' LT	--	--	--	1	--
	SB3	39+70	WB	30' LT	1	--	--	--	--
	SB4	40+08	EB	34' RT	--	--	--	1	--
	SB5	39+66	EB	54' RT	1	--	--	--	--
	SB6	38+74	EB	68' RT	--	--	--	1	--
	SB7	38+45	EB	37' RT	1	--	--	--	--
	SB8	38+25	WB	35' LT	--	--	--	1	--
				SUBTOTAL	**4**	**0**	**0**	**4**	**1**

CONCRETE BASES "CONTINUED"

INTERSECTION: USH 10 & 18TH AVE					654.0101* CONCRETE BASES TYPE 1	654.0102 CONCRETE BASES TYPE 2	654.0110 CONCRETE BASES TYPE 10	654.0113 CONCRETE BASES TYPE 13	654.0217 CONCRETE CONTROL CABINET BASE TYPE 9 SPECIAL
ID	BASE NO.	STATION		OFFSET	EACH	EACH	EACH	EACH	EACH
PROJECT 1500-37-71									
	CABINET (18TH AVE)	117+65	WB	39' LT	--	--	--	--	1
	SB1	117+81	WB	30' LT	1	--	--	--	--
	SB2	117+96	WB	46' LT	1	--	--	--	--
	SB3	118+51	WB	43' LT	--	--	1	--	--
	SB4	118+67	WB	29' LT	1	--	--	--	--
	SB5	118+98	EB	29' RT	--	--	--	1	--
	SB6	118+71	EB	39' RT	1	--	--	--	--
	SB7	118+61	EB	49' RT	1	--	--	--	--
	SB8	117+88	EB	57' RT	--	--	--	1	--
	SB9	117+83	EB	48' RT	1	--	--	--	--
	SB10	117+70	EB	35' RT	1	--	--	--	--
	SB11	117+65	WB	29' LT	--	--	--	1	--
				SUBTOTAL	**7**	**0**	**1**	**3**	**1**

* QUANTITIES INCLUDED ELSEWHERE IN THE PLAN.
ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

CONCRETE BASES "CONTINUED"

INTERSECTION: USH 10 & 11TH ST				654.0101* CONCRETE BASES TYPE 1	654.0102 CONCRETE BASES TYPE 2	654.0110 CONCRETE BASES TYPE 10	654.0113 CONCRETE BASES TYPE 13	654.0217 CONCRETE CONTROL CABINET BASE TYPE 9 SPECIAL
ID	BASE NO.	STATION	OFFSET	EACH	EACH	EACH	EACH	EACH
PROJECT 1500-37-71								
	CABINET (11TH ST)	141+93 WB	46' LT	--	--	--	--	1
	SB1	141+96 WB	32' LT	1	--	--	--	--
	SB2	141+93 EB	29' RT	--	--	--	1	--
	SB3	141+78 EB	41' RT	1	--	--	--	--
	SB4	141+33 EB	53' RT	--	1	--	--	--
	SB5	141+29 EB	42' RT	1	--	--	--	--
	SB6	141+17 EB	31' RT	1	--	--	--	--
	SB7	140+95 WB	29' LT	--	--	--	1	--
	SB8	141+15 WB	31' LT	1	--	--	--	--
	SB9	141+28 WB	45' LT	1	--	--	--	--
	SB10	141+84 WB	45' LT	1	--	--	--	--
			SUBTOTAL	**7**	**1**	**0**	**2**	**1**

CONCRETE BASES "CONTINUED"

INTERSECTION: USH 10 & 8TH ST				654.0101* CONCRETE BASES TYPE 1	654.0102 CONCRETE BASES TYPE 2	654.0110 CONCRETE BASES TYPE 10	654.0113 CONCRETE BASES TYPE 13	654.0217 CONCRETE CONTROL CABINET BASE TYPE 9 SPECIAL
ID	BASE NO.	STATION	OFFSET	EACH	EACH	EACH	EACH	EACH
PROJECT 1500-37-71								
	CABINET (8TH ST)	151+71 EB	45' RT	--	--	--	--	1
	SB1	151+23 EB	38' RT	--	1	--	--	--
	SB2	151+07 EB	29' RT	1	--	--	--	--
	SB3	151+02 WB	33' LT	--	--	1	--	--
	SB4	151+17 WB	44' LT	--	1	--	--	--
	SB5	151+74 WB	54' LT	--	1	--	--	--
	SB6	151+77 WB	48' LT	1	--	--	--	--
	SB7	151+90 WB	34' LT	1	--	--	--	--
	SB8	151+90 EB	32' RT	--	--	--	1	--
	SB9	151+76 EB	45' RT	1	--	--	--	--
			SUBTOTAL	**4**	**3**	**1**	**1**	**1**
		PROJECT TOTAL (1500-47-71)		**4**	**0**	**0**	**4**	**1**
		PROJECT TOTAL (1500-37-71)		**18**	**4**	**2**	**6**	**3**
			PROJECT TOTAL	**22**	**4**	**2**	**10**	**4**

* QUANTITIES INCLUDED ELSEWHERE IN THE PLAN.
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PULL BOXES STEEL

INTERSECTION: USH 10 & CTH R					653.0135 24x36-INCH	653.0140 24x42-INCH
ID	PB NO.	STATION	OFFSET		EACH	EACH
PROJECT 1500-47-71						
	PB1	38+63 WB	63'	LT	--	1
	PB2	38+69 WB	80'	LT	1	--
	PB3	39+28 WB	64'	LT	--	1
	PB4	39+89 WB	63'	LT	--	1
	PB5	39+98 WB	19'	RT	--	1
	PB6	40+86 WB	19'	RT	1	--
	PB7	41+29 WB	19'	RT	1	--
	PB8	42+20 WB	20'	RT	1	--
	PB9	39+93 EB	39'	RT	--	1
	PB10	39+57 EB	69'	RT	--	1
	PB11	39+65 EB	89'	RT	1	--
	PB12	39+18 EB	69'	RT	--	1
	PB13	38+65 EB	48'	RT	--	1
	PB14	38+22 EB	33'	RT	--	1
	PB15	36+94 EB	35'	RT	--	--
	PB16	36+38 EB	35'	RT	--	--
	PB17	38+20 WB	6'	RT	--	1
	PB18	38+39 WB	38'	LT	--	1
		SUBTOTAL			**5**	**11**

INTERSECTION: USH 10 & 18TH AVE						
PROJECT 1500-37-71						
	PB1	117+83 WB	41'	LT	--	1
	PB2	118+00 WB	55'	LT	--	1
	PB3	118+00 WB	65'	LT	1	--
	PB4	118+48 WB	56'	LT	--	1
	PB5	118+78 WB	29'	LT	--	1
	PB6	119+96 WB	29'	LT	1	--
	PB7	121+21 WB	29'	LT	1	--
	PB8	118+90 WB	19'	RT	--	1
	PB9	118+78 EB	33'	RT	--	1
	PB10	118+55 EB	66'	RT	--	1
	PB11	117+90 EB	67'	RT	--	1
	PB12	117+68 EB	45'	RT	--	1
	PB13	117+43 EB	29'	RT	--	1
	PB14	116+47 EB	29'	RT	1	--
	PB15	115+23 EB	29'	RT	1	--
	PB16	117+43 WB	4'	RT	--	1
	PB17	117+43 WB	29'	LT	--	1
		SUBTOTAL			**5**	**12**

PULL BOXES STEEL "CONTINUED"

INTERSECTION: USH 10 & 11TH ST					653.0135 24x36-INCH	653.0140 24x42-INCH
ID	PB NO.	STATION	OFFSET		EACH	EACH
PROJECT 1500-37-71						
	PB1	142+12 WB	29'	LT	--	1
	PB2	143+17 WB	29'	LT	1	--
	PB3	144+41 WB	29'	LT	1	--
	PB4	142+26 WB	20'	RT	1	--
	PB5	142+05 EB	29'	RT	--	1
	PB6	141+78 EB	47'	RT	--	1
	PB7	141+32 EB	48'	RT	--	1
	PB8	140+98 EB	29'	RT	--	1
	PB9	139+95 EB	29'	RT	1	--
	PB10	138+70 EB	29'	RT	1	--
	PB11	140+97 WB	4'	RT	--	1
	PB12	141+07 WB	29'	LT	--	1
	PB13	141+31 WB	61'	LT	--	1
	PB14	141+80 WB	60'	LT	--	1
		SUBTOTAL			**5**	**9**

INTERSECTION: USH 10 & 8TH ST						
PROJECT 1500-37-71						
	PB1	151+71 EB	74'	RT	--	1
	PB2	151+25 EB	74'	RT	1	--
	PB3	151+25 EB	48'	RT	--	1
	PB4	150+99 EB	29'	RT	--	1
	PB5	150+96 WB	8'	RT	1	--
	PB6	149+03 EB	8'	LT	1	--
	PB7	150+96 WB	30'	LT	--	1
	PB8	151+24 WB	58'	LT	--	1
	PB9	151+73 WB	59'	LT	--	1
	PB10	152+01 WB	29'	LT	--	1
	PB11	152+02 WB	10'	RT	--	1
	PB12	153+12 WB	10'	RT	1	--
	PB13	154+36 WB	10'	RT	1	--
	PB14	152+03 EB	28'	RT	--	1
	PB15	151+71 EB	60'	RT	--	1
		SUBTOTAL			**5**	**10**

PROJECT TOTAL (1500-47-71)	**5**	**11**
PROJECT TOTAL (1500-37-71)	**15**	**31**
PROJECT TOTAL	**20**	**42**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

SIGNAL CABLE

INTERSECTION: USH 10 & CTH R			655.0230	655.0240	655.0250	655.0260	655.0270	655.0700
ID	FROM	TO	CABLE TRAFFIC SIGNAL 5-14 AWG LF	CABLE TRAFFIC SIGNAL 7-14 AWG LF	CABLE TRAFFIC SIGNAL 9-14 AWG LF	CABLE TRAFFIC SIGNAL 12-14 AWG LF	CABLE TRAFFIC SIGNAL 15-14 AWG LF	LOOP DETECTOR LEAD IN* LF
PROJECT 1500-47-71								
	CABINET (CTH R)	SB1	--	--	--	39	--	--
	SB1	FACE 14	--	22	--	--	--	--
	SB1	FACE 16	19	--	--	--	--	--
	CABINET (CTH R)	SB2	--	--	--	--	183	--
	SB2	FACE 12	60	--	--	--	--	--
	SB2	FACE 13	45	--	--	--	--	--
	SB2	FACE 15	--	70	--	--	--	--
	CABINET (CTH R)	SB3	--	--	--	206	--	--
	SB3	FACE 4	--	22	--	--	--	--
	SB3	FACE 6	19	--	--	--	--	--
	CABINET (CTH R)	SB4	--	--	--	--	322	--
	SB4	FACE 2	50	--	--	--	--	--
	SB4	FACE 3	35	--	--	--	--	--
	SB4	FACE 5	--	65	--	--	--	--
	CABINET (CTH R)	SB5	--	--	--	367	--	--
	SB5	FACE 11	19	--	--	--	--	--
	SB5	FACE 19	--	22	--	--	--	--
	CABINET (CTH R)	SB6	--	--	--	--	206	--
	SB6	FACE 17	40	--	--	--	--	--
	SB6	FACE 18	50	--	--	--	--	--
	SB6	FACE 20	--	65	--	--	--	--
	CABINET (CTH R)	SB7	--	--	--	152	--	--
	SB7	FACE 1	19	--	--	--	--	--
	SB7	FACE 9	--	22	--	--	--	--
	CABINET (CTH R)	SB8	--	--	--	--	31	--
	SB8	FACE 7	40	--	--	--	--	--
	SB8	FACE 8	50	--	--	--	--	--
	SB8	FACE 10	--	65	--	--	--	--
	SUBTOTAL		**446**	**353**	**0**	**764**	**742**	**0**

* QUANTITIES INCLUDED ELSEWHERE IN THE PLAN.
ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

SIGNAL CABLE 'CONTINUED'

INTERSECTION: USH 10 & 18TH ST			655.0230	655.0240	655.0250	655.0260	655.0270	655.0700
ID	FROM	TO	CABLE TRAFFIC SIGNAL 5-14 AWG LF	CABLE TRAFFIC SIGNAL 7-14 AWG LF	CABLE TRAFFIC SIGNAL 9-14 AWG LF	CABLE TRAFFIC SIGNAL 12-14 AWG LF	CABLE TRAFFIC SIGNAL 15-14 AWG LF	LOOP DETECTOR LEAD IN* LF
PROJECT 1500-37-71								
	CABINET (18TH AVE)	SB1	--	--	35	--	--	--
	SB1	FACE 22	14	--	--	--	--	--
	SB1	BUTTON	--	--	--	--	--	6
	CABINET (18TH AVE)	SB2	--	--	--	36	--	--
	SB2	FACE 14	--	22	--	--	--	--
	SB2	FACE 16	21	--	--	--	--	--
	SB2	FACE 23	14	--	--	--	--	--
	SB2	BUTTON	--	--	--	--	--	6
	CABINET (18TH AVE)	SB3	--	--	--	--	119	--
	SB3	FACE 12	36	--	--	--	--	--
	SB3	FACE 13	26	--	--	--	--	--
	SB3	FACE 15	--	48	--	--	--	--
	SB3	FACE 28	14	--	--	--	--	--
	SB3	BUTTON	--	--	--	--	--	6
	CABINET (18TH AVE)	SB4	---	--	--	191	--	--
	SB4	FACE 4	--	22	--	--	--	--
	SB4	FACE 6	21	--	--	--	--	--
	SB4	FACE 21	14	--	--	--	--	--
	SB4	BUTTON	--	--	--	--	--	6
	CABINET (18TH AVE)	SB5	--	--	--	--	279	--
	SB5	FACE 2	47	--	--	--	--	--
	SB5	FACE 3	36	--	--	--	--	--
	SB5	FACE 5	--	66	--	--	--	--
	CABINET (18TH AVE)	SB6	--	--	264	--	--	--
	SB6	FACE 26	14	--	--	--	--	--
	SB6	BUTTON	--	--	--	--	--	6
	CABINET (18TH AVE)	SB7	--	--	--	300	--	--
	SB7	FACE 11	21	--	--	--	--	--
	SB7	FACE 19	--	22	--	--	--	--
	SB7	FACE 27	14	--	--	--	--	--
	SB7	BUTTON	--	--	--	--	--	6
	CABINET (18TH AVE)	SB8	--	--	--	--	200	--
	SB8	FACE 17	47	--	--	--	--	--
	SB8	FACE 18	26	--	--	--	--	--
	SB8	FACE 20	--	57	--	--	--	--
	CABINET (18TH AVE)	SB9	--	--	170	--	--	--
	SB9	FACE 21	14	--	--	--	--	--
	SB9	BUTTON	--	--	--	--	--	6
	CABINET (18TH AVE)	SB10	--	--	--	168	--	--
	SB10	FACE 1	21	--	--	--	--	--
	SB10	FACE 9	--	22	--	--	--	--
	SB10	FACE 25	14	--	--	--	--	--
	SB10	BUTTON	--	--	--	--	--	6
	CABINET (18TH AVE)	SB11	--	--	--	--	53	--
	SB11	FACE 7	48	--	--	--	--	--
	SB11	FACE 8	37	--	--	--	--	--
	SB11	FACE 10	--	65		--	--	--
	SUBTOTAL		**499**	**324**	**469**	**695**	**651**	**48**

* QUANTITIES INCLUDED ELSEWHERE IN THE PLAN.
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SIGNAL CABLE 'CONTINUED'

INTERSECTION: USH 10 & 11TH ST			655.0230	655.0240	655.0250	655.0260	655.0270	655.0700
ID	FROM	TO	CABLE TRAFFIC SIGNAL 5-14 AWG LF	CABLE TRAFFIC SIGNAL 7-14 AWG LF	CABLE TRAFFIC SIGNAL 9-14 AWG LF	CABLE TRAFFIC SIGNAL 12-14 AWG LF	CABLE TRAFFIC SIGNAL 15-14 AWG LF	LOOP DETECTOR LEAD IN* LF
PROJECT 1500-37-71								
	CABINET (11TH ST)	SB1	--	--	--	45	--	--
	SB1	FACE 4	--	22	--	--	--	--
	SB1	FACE 6	19	--	--	--	--	--
	SB1	FACE 14	14	--	--	--	--	--
	SB1	BUTTON	--	--	--	--	--	6
	CABINET (11TH ST)	SB2	--	--	--	--	145	--
	SB2	FACE 2	48	--	--	--	--	--
	SB2	FACE 3	38	--	--	--	--	--
	SB2	FACE 5		67	--	--	--	--
	SB2	FACE 19	14	--	--	--	--	--
	SB2	BUTTON		--	--	--	--	6
	CABINET (11TH ST)	SB3	--	--	180	--	--	--
	SB3	FACE 12	19	--	--	--	--	--
	SB3	FACE 20	14	--	--	--	--	--
	SB3	BUTTON	19	--	--	--	--	--
	CABINET (11TH ST)	SB4	--	230	--	--	--	--
	SB4	FACE 13	45	--	--	--	--	--
	CABINET (11TH ST)	SB5	--	230	--	--	--	--
	SB5	FACE 17	19	--	--	--	--	--
	SB5	BUTTON	--	--	--	--	--	6
	CABINET (11TH ST)	SB6	--	--	--	240	--	--
	SB6	FACE 1	19	--	--	--	--	--
	SB6	FACE 9		22	--	--	--	--
	SB6	FACE 18	14	--	--	--	--	--
	SB6	BUTTON		--	--	--	--	6
	CABINET (11TH ST)	SB7	--	--	--	--	138	--
	SB7	FACE 7	48	--	--	--	--	--
	SB7	FACE 8	38	--	--	--	--	--
	SB7	FACE 10		67	--	--	--	--
	CABINET (11TH ST)	SB8	--	140	--	--	--	--
	SB8	FACE 15	14	--	--	--	--	--
	SB8	BUTTON	--	--	--	--	--	6
	CABINET (11TH ST)	SB9	--	--	100	--	--	--
	SB9	FACE 11	19	--	--	--	--	--
	SB9	FACE 16	14	--	--	--	--	--
	SB9	BUTTON	--	--	--	--	--	6
	CABINET (11TH ST)	SB10	--	45	--	--	--	--
	SB10	FACE 21	14	--	--	--	--	--
	SB10	BUTTON	--	--	--	--	--	6
	SUBTOTAL		**429**	**823**	**280**	**285**	**283**	**42**

* QUANTITIES INCLUDED ELSEWHERE IN THE PLAN.
ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

SIGNAL CABLE 'CONTINUED'

INTERSECTION: USH 10 & 8TH AVE			655.0230	655.0240	655.0250	655.0260	655.0270	655.0700
ID	FROM	TO	CABLE TRAFFIC SIGNAL 5-14 AWG LF	CABLE TRAFFIC SIGNAL 7-14 AWG LF	CABLE TRAFFIC SIGNAL 9-14 AWG LF	CABLE TRAFFIC SIGNAL 12-14 AWG LF	CABLE TRAFFIC SIGNAL 15-14 AWG LF	LOOP DETECTOR LEAD IN* LF
PROJECT 1500-37-71	USH 10 & 8TH ST							
	CABINET (8TH ST)	SB1	--	--	107	--	--	--
	SB1	FACE 11	47	--	--	--	--	--
	SB1	FACE 21	14	--	--	--	--	--
	SB1	BUTTON	--	--	--	--	--	6
	CABINET (8TH ST)	SB2	--	--	140	--	--	--
	SB2	FACE 1	22	--	--	--	--	--
	SB2	FACE 20	14	--	--	--	--	--
	SB2	BUTTON	--	--	--	--	--	6
	CABINET (8TH ST)	SB3	--	--	--	236	--	--
	SB3	FACE 7	50	--	--	--	--	--
	SB3	FACE 8	--	40	--	--	--	--
	SB3	FACE 18	--	14	--	--	--	--
	SB3	BUTTON	--	--	--	--	--	6
	CABINET (8TH ST)	SB4	--	--	--	--	292	--
	SB4	FACE 9	21	--	--	--	--	--
	SB4	FACE 15	--	21	--	--	--	--
	SB4	FACE 16	--	50	--	--	--	--
	SB4	FACE 19	14	--	--	--	--	--
	SB4	BUTTON	--	--	--	--	--	6
	CABINET (8TH ST)	SB5	--	--	--	210	--	--
	SB5	FACE 13	47	--	--	--	--	--
	SB5	FACE 14	26	--	--	--	--	--
	CABINET (8TH ST)	SB6	--	215	--	--	--	--
	SB6	FACE 24	14	--	--	--	--	--
	SB6	BUTTON	--	--	--	--	--	6
	CABINET (8TH ST)	SB7	--	--	--	176	--	--
	SB7	FACE 4	--	22	--	--	--	--
	SB7	FACE 6	19	--	--	--	--	--
	SB7	FACE 17	14	--	--	--	--	--
	SB7	BUTTON	--	--	--	--	--	6
	CABINET (8TH ST)	SB8	--	--	--	--	78	--
	SB8	FACE 2	51	--	--	--	--	--
	SB8	FACE 3	41	--	--	--	--	--
	SB8	FACE 5	--	65	--	--	--	--
	SB8	FACE 22	14	--	--	--	--	--
	SB8	BUTTON	--	--	--	--	--	6
	CABINET (8TH ST)	SB9	--	--	--	29	--	--
	SB9	FACE 10	--	19	--	--	--	--
	SB9	FACE 12	19	--	--	--	--	--
	SB9	FACE 23	14	--	--	--	--	--
	SB9	BUTTON	--	--	--	--	--	6
	SUBTOTAL		**441**	**446**	**247**	**651**	**370**	**48**
	PROJECT TOTAL (1500-47-71)		**446**	**353**	**0**	**764**	**742**	**0**
	PROJECT TOTAL (1500-37-71)		**1369**	**1593**	**996**	**1631**	**1304**	**138**
	PROJECT TOTAL		**1815**	**1946**	**996**	**2395**	**2046**	**138**

* QUANTITIES INCLUDED ELSEWHERE IN THE PLAN.
ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

EQUIPMENT GROUNDING CONDUCTORS & PULL BOX JUMPERS

INTERSECTION: USH 10 & CTH R

ID	FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
1500-47-71			
	EQUIPMENT GROUNDING CONDUCTORS		
	CABINET (CTH R)	SB1	38
	SB1	SB2	168
	SB2	SB3	58
	SB3	SB4	200
	SB4	SB5	84
	SB5	SB6	162
	SB6	SB7	106
	SB7	SB8	154
	SB8	CABINET (CTH R)	32
	PULL BOX JUMPERS		
	PB1	SB1	19
	PB3	SB1	83
	PB4	SB2	23
	PB5	SB2	105
	PB9	SB4	26
	PB10	SB5	26
	PB12	SB5	74
	PB13	SB6	32
	PB14	SB7	34
	PB17	SB7	84
	PB18	SB8	25
		SUBTOTAL	**1533**

EQUIPMENT GROUNDING CONDUCTORS & PULL BOX JUMPERS 'CONTINUED'

INTERSECTION: USH 10 & 18TH AVE

ID	FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
1500-37-71			
	EQUIPMENT GROUNDING CONDUCTORS		
	CABINET (18TH AVE)	SB1	36
	SB1	SB2	29
	SB2	SB3	114
	SB3	SB4	77
	SB4	SB5	127
	SB5	SB6	25
	SB6	SB7	79
	SB7	SB8	106
	SB8	SB9	68
	SB9	SB10	31
	SB10	SB11	160
	SB11	CABINET (18TH AVE)	53
	PULL BOX JUMPERS		
	PB1	SB1	34
	PB2	SB2	44
	PB4	SB3	24
	PB5	SB4	21
	PB9	SB5	59
	PB9	SB6	20
	PB10	SB7	28
	PB11	SB8	21
	PB13	SB9	25
	PB13	SB10	48
	PB16	SB11	64
	PB17	SB11	33
		SUBTOTAL	**1326**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

EQUIPMENT GROUNDING CONDUCTORS & PULL BOX JUMPERS 'CONTINUED'

INTERSECTION: USH 10 & 11TH ST

ID	FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
1500-37-71			
	EQUIPMENT GROUNDING CONDUCTORS		
	CABINET (11TH ST)	SB1	45
	SB1	SB2	135
	SB2	SB3	67
	SB3	SB4	73
	SB4	SB5	18
	SB5	SB6	51
	SB6	SB7	135
	SB7	SB8	29
	SB8	SB9	77
	SB9	SB10	93
	SB10	CABINET (11TH ST)	43
	PULL BOX JUMPERS		
	PB1	SB1	27
	PB4	SB1	76
	PB5	SB2	20
	PB6	SB3	20
	PB7	SB5	16
	PB8	SB6	56
	PB11	SB7	58
	PB12	SB7	22
	PB13	SB9	26
	PB15	SB10	25
		SUBTOTAL	**1112**

EQUIPMENT GROUNDING CONDUCTORS & PULL BOX JUMPERS 'CONTINUED'

INTERSECTION: USH 10 & 8TH ST

ID	FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
1500-37-71			
	EQUIPMENT GROUNDING CONDUCTORS		
	CABINET (8TH ST)	SB1	106
	SB1	SB2	59
	SB2	SB3	116
	SB3	SB4	75
	SB4	SB5	88
	SB5	SB6	18
	SB6	SB7	76
	SB7	SB8	124
	SB8	SB9	90
	SB9	CABINET (8TH ST)	28
	PULL BOX JUMPERS		
	PB1	SB1	92
	PB2	SB1	46
	PB3	SB2	48
	PB4	SB2	17
	PB6	SB3	55
	PB7	SB3	16
	PB8	SB4	26
	PB9	SB6	21
	PB10	SB7	23
	PB11	SB7	62
	PB14	SB8	25
	PB15	SB9	26
		SUBTOTAL	**1237**
		PROJECT TOTAL (1500-47-71)	**1533**
		PROJECT TOTAL (1500-37-71)	**3675**
		PROJECT TOTAL	**5208**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

TRAFFIC SIGNAL POLES AND LUMINAIRE ARMS

INTERSECTION: USH 10 & CTH R		657.0100*	657.0255	657.0305	657.0310	657.0425*	657.0430	657.0590	657.0595	657.0345	657.0350	657.0355	657.0360	657.0530	657.0535	657.0545	657.0550	657.0555	657.0815	SPV.0060.27*
ID	BASE NO.	PED. BASE EACH	TRANS. BASE EACH	POLE TYPE 2 EACH	POLE TYPE 3 EACH	15-FOOT STAND. EACH	10-FOOT STAND. EACH	20-FOOT TROMB. EACH	25-FOOT TROMB. EACH	POLES TYPE 9 EACH	POLES TYPE 10 EACH	POLES TYPE 12 EACH	POLES TYPE 13 EACH	MONOTUBE ARMS 30-FT	MONOTUBE ARMS 35-FT	MONOTUBE ARMS 45-FT	MONOTUBE ARMS 50-FT	MONOTUBE ARMS 55-FT	LUMINAIRE ARMS STEEL 15-FT EACH	LUMINAIRE LED EACH
1500-47-71																				
	SB1	1	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB2	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	1	1	1
	SB3	1	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB4	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--	--	1	1
	SB5	1	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB6	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1	--	1	1
	SB7	1	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB8	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--	--	1	1
	SUBTOTAL	**4**	**0**	**0**	**0**	**4**	**0**	**0**	**0**	**0**	**0**	**0**	**4**	**0**	**0**	**2**	**1**	**1**	**4**	**4**
INTERSECTION: USH 10 & 18TH AVE																				
1500-37-71																				
	SB1	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB2	1	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB3	--	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	--	--	--
	SB4	1	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB5	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--	--	1	1
	SB6	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB7	1	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB8	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--	--	--	--	--
	SB9	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB10	1	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB11	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--	--	1	1
	SUBTOTAL	**7**	**0**	**0**	**0**	**4**	**3**	**0**	**0**	**1**	**0**	**1**	**2**	**1**	**1**	**2**	**0**	**0**	**2**	**2**

* QUANTITIES INCLUDED ELSEWHERE IN THE PLAN.
ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

TRAFFIC SIGNAL POLES AND LUMINAIRE ARMS 'CONTINUED'

INTERSECTION: USH 10 & 11TH ST		657.0100*	657.0255	657.0305	657.0310	657.0425*	657.0430	657.0590	657.0595	657.0345	657.0350	657.0355	657.0360	657.0530	657.0535	657.0545	657.0550	657.0555	657.0815	SPV.0060.27*
ID	BASE NO.	PED. BASE EACH	TRANS. BASE EACH	POLE TYPE 2 EACH	POLE TYPE 3 EACH	15-FOOT STAND. EACH	10-FOOT STAND. EACH	20-FOOT TROMB. EACH	25-FOOT TROMB. EACH	POLES TYPE 9 EACH	POLES TYPE 10 EACH	POLES TYPE 12 EACH	POLES TYPE 13 EACH	MONOTUBE ARMS 30-FT	MONOTUBE ARMS 35-FT	MONOTUBE ARMS 45-FT	MONOTUBE ARMS 50-FT	MONOTUBE ARMS 55-FT	LUMINAIRE ARMS STEEL 15-FT EACH	LUMINAIRE LED EACH
1500-37-71																				
	SB1	1	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB2	--	--	--	--	--	--	--	--	--	--	--	1	--		1	--	--	1	1
	SB3	1	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB4	--	1	--	1	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--
	SB5	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB6	1	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB7	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--	--	1	1
	SB8	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB9	1	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB10	1	--	--	--	--	1	--	--	--	--	--	1	--	1	--	--	--	--	--
	SUBTOTAL	**7**	**1**	**0**	**1**	**4**	**3**	**1**	**0**	**0**	**0**	**0**	**3**	**0**	**1**	**2**	**0**	**0**	**2**	**2**
INTERSECTION: USH 10 & 8TH ST																				
1500-37-71																				
	SB1	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
	SB2	1	1	--	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB3	--	--	--	--	--	--	--	--	--	1	--	--	1	--	--	--	--	1	1
	SB4	--	1	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
	SB5	--	1	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
	SB6	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB7	1	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SB8	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--	--	1	1
	SB9	1	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	SUBTOTAL	**4**	**3**	**2**	**1**	**3**	**1**	**0**	**3**	**0**	**1**	**0**	**1**	**1**	**0**	**1**	**0**	**0**	**2**	**2**
	PROJECT TOTAL (1500-47-71)	**4**	**0**	**0**	**0**	**4**	**0**	**0**	**0**	**0**	**0**	**0**	**4**	**0**	**0**	**2**	**1**	**1**	**4**	**4**
	PROJECT TOTAL (1500-37-71)	**18**	**4**	**2**	**2**	**11**	**7**	**1**	**3**	**1**	**1**	**1**	**6**	**2**	**2**	**5**	**0**	**0**	**6**	**6**
	PROJECT TOTAL	**22**	**4**	**2**	**2**	**15**	**7**	**1**	**3**	**1**	**1**	**1**	**10**	**2**	**2**	**7**	**1**	**1**	**10**	**10**

* QUANTITIES INCLUDED ELSEWHERE IN THE PLAN.
ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

SIGNAL FACES & LED MODULES

INTERSECTION: USH 10 & CTH R			658.0173	658.0174	658.0416	658.0500*
ID	SB NO.	FACE NO.	TRAFFIC SIGNAL FACE 3S 12-INCH EACH	TRAFFIC SIGNAL FACE 4S 12-INCH EACH	PEDESTRIAN SIGNAL FACE 16-INCH EACH	PEDESTRIAN PUSH BUTTON EACH
1500-47-71						
	SB1	14	1			
		16	1			
	SB2	12	1			
		13	1			
		15	1			
	SB3	4		1		
		6	1			
	SB4	2	1			
		3	1			
		5		1		
	SB5	11	1			
		19	1			
	SB6	17	1			
		18	1			
		20	1			
	SB7	1	1			
		9		1		
	SB8	7	1			
		8	1			
		10		1		
		SUBTOTAL	**16**	**4**	**0**	**0**

* QUANTITIES INCLUDED ELSEWHERE IN THE PLAN.
ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

SIGNAL FACES & LED MODULES 'CONTINUED'

INTERSECTION: USH 10 & 18TH AVE			658.0173	658.0174	658.0416	658.0500*
ID	SB NO.	FACE NO.	TRAFFIC SIGNAL FACE 3S 12-INCH EACH	TRAFFIC SIGNAL FACE 4S 12-INCH EACH	PEDESTRIAN SIGNAL FACE 16-INCH EACH	PEDESTRIAN PUSH BUTTON EACH
1500-37-71						
	SB1	22			1	
		BUTTON				1
	SB2	14		1		
		16	1			
		23			1	
		BUTTON				1
	SB3	12	1			
		13	1			
		15		1		
		28			1	
		BUTTON				1
	SB4	4		1		
		6	1			
		21			1	
		BUTTON				1
	SB5	2	1			
		3	1			
		5		1		
	SB6	26			1	
		BUTTON				1
	SB7	11	1			
		19		1		
		27			1	
		BUTTON				1
	SB8	17	1			
		18	1			
		20		1		
	SB9	24			1	
		BUTTON				1
	SB10	1	1			
		9		1		
		25			1	
		BUTTON				1
	SB11	7	1			
		8	1			
		10		1		
		SUBTOTAL	**12**	**8**	**8**	**8**

* QUANTITIES INCLUDED ELSEWHERE IN THE PLAN.
ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

SIGNAL FACES & LED MODULES 'CONTINUED'

INTERSECTION: USH 10 & 11TH ST			658.0173	658.0174	658.0416	658.0500*
ID	SB NO.	FACE NO.	TRAFFIC SIGNAL FACE 3S 12-INCH EACH	TRAFFIC SIGNAL FACE 4S 12-INCH EACH	PEDESTRIAN SIGNAL FACE 16-INCH EACH	PEDESTRIAN PUSH BUTTON EACH
1500-37-71						
	SB1	4		1		
		6	1			
		14			1	
		BUTTON				1
	SB2	2	1			
		3	1			
		5		1		
		19			1	
		BUTTON				1
	SB3	12	1			
		20			1	
		BUTTON				1
	SB4	13	1			
	SB5	17			1	
		BUTTON				1
	SB6	1	1			
		9		1		
		18			1	
		BUTTON				1
	SB7	7	1			
		8	1			
		10		1		
	SB8	15			1	
		BUTTON				1
	SB9	11	1			
		16			1	
		BUTTON				1
	SB10	21			1	
		BUTTON				1
		SUBTOTAL	**9**	**4**	**8**	**8**

* QUANTITIES INCLUDED ELSEWHERE IN THE PLAN.
ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

SIGNAL FACES & LED MODULES 'CONTINUED'

INTERSECTION: USH 10 & 8TH ST			658.0173	658.0174	658.0416	658.0500*
ID	SB NO.	FACE NO.	TRAFFIC SIGNAL FACE 3S 12-INCH EACH	TRAFFIC SIGNAL FACE 4S 12-INCH EACH	PEDESTRIAN SIGNAL FACE 16-INCH EACH	PEDESTRIAN PUSH BUTTON EACH
1500-37-71						
	SB1	11	1			
		21			1	
		BUTTON				1
	SB2	1	1			
		20			1	
		BUTTON				1
	SB3	7	1			
		8	1			
		18			1	
		BUTTON				1
	SB4	9	1			
		15	1			
		16	1			
		19			1	
		BUTTON				1
	SB5	13	1			
		14	1			
	SB6	24			1	
		BUTTON				1
	SB7	4		1		
		6	1			
		17			1	
		BUTTON				1
	SB8	2	1			
		3	1			
		5		1		
		22			1	
		BUTTON				1
	SB9	10	1			
		12	1			
		23			1	
		BUTTON				1
		SUBTOTAL	**14**	**2**	**8**	**8**
		PROJECT TOTAL (1500-47-71)	**16**	**4**	**0**	**0**
		PROJECT TOTAL (1500-37-71)	**35**	**14**	**24**	**24**
		PROJECT TOTAL	**51**	**18**	**24**	**24**

* QUANTITIES INCLUDED ELSEWHERE IN THE PLAN.
ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

LIGHTING WIRE

INTERSECTION: USH 10 & CTH R			655.0620 ELECTRICAL WIRE LIGHTING 8 AWG	655.0610* ELECTRICAL WIRE LIGHTING 12 AWG
ID	FROM	TO	LF	LF
1500-47-71				
	CAB.	SB2	522	---
	SB2	LUM.	---	144
	SB2	SB4	525	---
	SB4	LUM.	---	144
	CAB.	SB8	96	---
	SB8	LUM.	---	144
	SB8	SB6	624	---
	SB6	LUM.	---	144
		SUBTOTAL	**1767**	**576**

INTERSECTION: USH 10 & 18TH ST			655.0620 ELECTRICAL WIRE LIGHTING 8 AWG	655.0610* ELECTRICAL WIRE LIGHTING 12 AWG
ID	FROM	TO	LF	LF
1500-37-71				
	CAB.	SB11	153	---
	SB11	LUM.	---	144
	CAB.	SB5	789	---
	SB5	LUM.	---	144
		SUBTOTAL	**942**	**288**

* QUANTITIES INCLUDED ELSEWHERE IN THE PLAN.
ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

LIGHTING WIRE 'CONTINUED'

INTERSECTION: USH 10 & 11TH ST			655.0620 ELECTRICAL WIRE LIGHTING 8 AWG	655.0610* ELECTRICAL WIRE LIGHTING 12 AWG
ID	FROM	TO	LF	LF
1500-37-71				
	CAB.	SB2	435	---
	SB2	LUM.	---	144
	CAB.	SB7	405	---
	SB7	LUM.	---	144
		SUBTOTAL	**840**	**288**

INTERSECTION: USH 10 & 8TH ST			655.0620 ELECTRICAL WIRE LIGHTING 8 AWG	655.0610* ELECTRICAL WIRE LIGHTING 12 AWG
ID	FROM	TO	LF	LF
1500-37-71				
	CAB.	SB3	426	---
	SB3	LUM.	---	144
	CAB.	SB7	717	---
	SB7	LUM.	---	144
		SUBTOTAL	**1143**	**288**
	PROJECT TOTAL (1500-47-71)		**1767**	**576**
	PROJECT TOTAL (1500-37-71)		**2925**	**864**
		PROJECT TOTAL	**4692**	**1440**

* QUANTITIES INCLUDED ELSEWHERE IN THE PLAN.
ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.01 LS	658.5069.02 LS	658.5069.03 LS	658.5069.04 LS
PROJECT ID: 1500-47-71				
.01 USH 10 & CTH R	1	--	--	--
SUBTOTAL	**1**	**0**	**0**	**0**
PROJECT ID: 1500-37-71				
.02 USH 10 & 18TH ST.	--	1	--	--
.03 USH 10 & 11TH ST.	--	--	1	--
.04 USH 10 & 8TH AVE.	--	--	--	1
SUBTOTAL	**0**	**1**	**1**	**1**
PROJECT TOTAL (1500-47-71)	**1**	**0**	**0**	**0**
PROJECT TOTAL (1500-37-71)	**0**	**1**	**1**	**1**
PROJECT TOTAL	**1**	**1**	**1**	**1**

ELECTRICAL SERVICE METER BREAKER PEDESTAL

LOCATION	656.0200.01 LS	656.0200.02 LS	656.0200.03 LS	656.0200.04 LS
PROJECT ID: 1500-47-71				
.01 USH 10 & CTH R	1	--	--	--
SUBTOTAL	**1**	**0**	**0**	**0**
PROJECT ID: 1500-37-71				
.02 USH 10 & 18TH ST.	--	1	--	--
.03 USH 10 & 11TH ST.	--	--	1	--
.04 USH 10 & 8TH AVE.	--	--	--	1
SUBTOTAL	**0**	**1**	**1**	**1**
PROJECT TOTAL (1500-47-71)	**1**	**0**	**0**	**0**
PROJECT TOTAL (1500-37-71)	**0**	**1**	**1**	**1**
PROJECT TOTAL	**1**	**1**	**1**	**1**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE

LOCATION	SPV.0105.65 LS	SPV.0105.66 LS	SPV.0105.67 LS	SPV.0105.68 LS
PROJECT ID: 1500-47-71				
.65 USH 10 & CTH R	1	--	--	--
SUBTOTAL	**1**	**0**	**0**	**0**
PROJECT ID: 1500-37-71				
.66 USH 10 & 18TH ST.	--	1	--	--
.67 USH 10 & 11TH ST.	--	--	1	--
.68 USH 10 & 8TH AVE.	--	--	--	1
SUBTOTAL	**0**	**1**	**1**	**1**
PROJECT TOTAL (1500-47-71)	**1**	**0**	**0**	**0**
PROJECT TOTAL (1500-37-71)	**0**	**1**	**1**	**1**
PROJECT TOTAL	**1**	**1**	**1**	**1**

TRAFFIC SIGNAL CABINET & CONTROLLER FULLY ACTUATED 8 PHASE

LOCATION	SPV.0105.69 LS	SPV.0105.70 LS	SPV.0105.71 LS	SPV.0105.72 LS
PROJECT ID: 1500-47-71				
.69 USH 10 & CTH R	1	--	--	--
SUBTOTAL	**1**	**0**	**0**	**0**
PROJECT ID: 1500-37-71				
.70 USH 10 & 18TH ST.	--	1	--	--
.71 USH 10 & 11TH ST.	--	--	1	--
.72 USH 10 & 8TH AVE.	--	--	--	1
SUBTOTAL	**0**	**1**	**1**	**1**
PROJECT TOTAL (1500-47-71)	**1**	**0**	**0**	**0**
PROJECT TOTAL (1500-37-71)	**0**	**1**	**1**	**1**
PROJECT TOTAL	**1**	**1**	**1**	**1**

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

TRAFFIC SIGNAL IDENTIFICATION PLAQUES (INCIDENTAL TO NEW INSTALLATIONS)

LOCATION	BASE NO.	STRUCTURE NO.
PROJECT ID: 1500-47-71		
USH 10 & CTH R		
	SB8	S-36-0046
	SB6	S-36-0047
	SB4	S-36-0048
	SB2	S-36-0049
PROJECT ID: 1500-37-71		
USH 10 & 18TH ST		
	SB11	S-36-0050
	SB8	S-36-0051
	SB5	S-36-0052
	SB3	S-36-0053
USH 10 & 11TH AVE		
	SB7	S-36-0054
	SB2	S-36-0055
USH 10 & 8TH AVE		
	SB3	S-36-0056
	SB7	S-36-0057

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

SAWING PAVEMENT

ID	CATEGORY	STATION	LOCATION	690.0150 * SAWING ASPHALT LF	690.0250 * SAWING CONCRETE LF	REMARKS
PROJECT 1500-47-71						
	0010					
		38+00	USH 10, EB	36	-	BUTT JOINT
		38+00	USH 10, WB	24	-	BUTT JOINT
		38+35	USH 10, EB	-	124	
		38+75	USH 10, EB	-	159	
		9+10	CTH R, SB	-	24	BUTT JOINT
		9+10	CTH R, NB	-	50	BUTT JOINT
		9+35	CTH R, SB	-	56	
		9+50	CTH R, NB	-	67	
		10+80	CTH R, SB / MEDIAN	-	148	
		11+25	CTH R, SB	4	36	BUTT JOINT
		11+25	CTH R, NB	-	24	BUTT JOINT
		40+13	USH 10, WB	-	122	
		40+50	USH 10, WB	-	136	
		40+92	USH 10, EB	-	66	
		40+97	USH 10, WB	-	55	
		41+22	USH 10, WB	-	96	
		42+17	USH 10, WB	-	108	
		43+18	USH 10, WB	-	48	
		43+29	USH 10, EB	-	35	
		43+45	USH 10, EB	-	41	
		43+70	USH 10, EB, RT	-	20	BUTT JOINT
		43+75	USH 10, EB	-	31	
		45+10	USH 10, WB	-	73	
		45+95	USH 10, EB	-	45	
		46+53	USH 10, WB	-	14	
		46+99	USH 10, MEDIAN	-	29	ISLAND NOSE
		47+52	USH 10, MEDIAN	-	20	
		47+62	USH 10, MEDIAN	-	27	ISLAND NOSE
		48+47	USH 10, EB	-	56	
		48+64	USH 10, WB	-	57	
		48+74	USH 10, EB	-	10	
		50+00	USH 10, WB, LT	-	85	
		50+00	USH 10, WB, LT	36	-	CE
		50+43	USH 10, MEDIAN	-	28	ISLAND NOSE
		53+21	USH 10, WB, LT	-	14	
		53+64	USH 10, MEDIAN	-	54	ISLAND NOSE / PAVEMENT
		53+71	USH 10, WB, LT	-	23	CURB & GUTTER
		53+71	USH 10, WB, LT	-	10	SIDEWALK
		54+40	USH 10, MEDIAN	-	29	ISLAND NOSE
		54+40	USH 10, WB	-	54	
		54+50	USH 10, WB	-	52	
		54+60	USH 10, WB	-	34	
		54+80	USH 10, WB	-	14	
		54+80	USH 10, EB, LT & RT	-	28	
		56+34	USH 10, WB	-	101	

SAWING PAVEMENT (CONTINUED)

ID	STATION	LOCATION	690.0150 * SAWING ASPHALT LF	690.0250 * SAWING CONCRETE LF	REMARKS
PROJECT 1500-47-71					
0010					
	57+32	USH 10, WB, LT & RT	-	28	
	57+32	USH 10, EB	-	14	
	57+80	USH 10, WB	-	65	
	58+00	USH 10, MEDIAN	-	87	ISLAND NOSE / PAVEMENT
	58+39	USH 10, WB	-	38	
	60+00	USH 10, EB, RT	-	34	
	62+81	USH 10, WB	-	14	
	63+17	USH 10, MEDIAN	-	27	ISLAND NOSE
	63+75	USH 10, EB	-	22	
	63+89	USH 10, MEDIAN	-	27	
	63+95	USH 10, WB	-	26	
	65+00	USH 10, WB	-	38	
	65+31	USH 10, EB, LT & RT	-	28	
	67+58	USH 10, WB, LT & RT	-	28	
	68+28	USH 10, EB	-	11	
	69+12	USH 10, EB	-	11	
	9+45	N. 40TH ST, LT & RT	-	7	SIDEWALK
	9+55	N. 40TH ST	-	32	BUTT JOINT
	9+60	N. 40TH ST, RT	-	4	SIDEWALK
	9+65	N. 40TH ST, RT	-	22	CURB & GUTTER
	9+65	N. 40TH ST, LT	-	21	CURB & GUTTER
	9+52	GLENVIEW DR	-	36	BUTT JOINT
	9+60	GLENVIEW DR, LT	-	8	SIDEWALK
	9+60	GLENVIEW DR, RT	-	8	SIDEWALK
	9+65	GLENVIEW DR, RT	-	22	CURB & GUTTER
	9+70	GLENVIEW DR, LT	-	49	CURB & GUTTER
	9+52	W. CRESCENT DR	-	36	BUTT JOINT
	9+60	W. CRESCENT DR, RT	-	9	SIDEWALK
	9+60	W. CRESCENT DR, LT	-	8	SIDEWALK
	9+70	W. CRESCENT DR, RT	-	22	CURB & GUTTER
	9+70	W. CRESCENT DR, LT	-	22	CURB & GUTTER
	9+52	E. CRESCENT DR	-	36	BUTT JOINT
	9+60	E. CRESCENT DR, RT	-	9	SIDEWALK
	9+60	E. CRESCENT DR, LT	-	9	SIDEWALK
	9+70	E. CRESCENT DR, RT	-	22	CURB & GUTTER
	9+70	E. CRESCENT DR, LT	-	22	CURB & GUTTER
	PROJECT TOTALS		100	3,205	
PROJECT 1500-37-71					
0010					
	70+00	USH 10, EB, RT	-	35	ROAD / SIDEWALK
	70+00	USH 10, WB, LT	-	30	ROAD / SIDEWALK
	71+72	USH 10, EB, RT	-	13	PE - BRICK PAVERS
	71+82	USH 10, WB, LT	11	-	PE
	90+40	USH 10, EB, RT	-	6	SIDEWALK

* QUANTITIES SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

SAWING PAVEMENT (CONTINUED)

ID	CATEGORY	STATION	LOCATION	690.0150 * SAWING ASPHALT LF	690.0250 * SAWING CONCRETE LF	REMARKS
PROJECT 1500-37-71						
	0010					
		94+06	USH 10, WB, LT	-	4	SIDEWALK
		94+32	USH 10, WB, LT	-	4	SIDEWALK
		94+51	USH 10, EB, RT	-	8	PE
		94+53	USH 10, WB, LT	-	28	PE
		94+74	USH 10, WB, LT	-	5	SIDEWALK
		94+74	USH 10, EB, RT	-	3	SIDEWALK
		95+18	USH 10, EB, RT	-	11	PE
		95+28	USH 10, WB, LT	18	-	PE
		95+55	USH 10, EB, RT	-	4	SIDEWALK
		95+89	USH 10, WB, LT	-	27	PE
		96+35	USH 10, WB, LT	-	7	PE
		96+39	USH 10, EB, RT	-	7	PE
		96+52	USH 10, EB, RT	-	4	SIDEWALK
		96+90	USH 10, EB, RT	-	11	PE
		96+94	USH 10, WB, LT	-	3	SIDEWALK
		97+05	USH 10, EB, RT	-	2	SIDEWALK
		97+18	USH 10, WB, LT	-	15	PE
		97+39	USH 10, EB, RT	9	-	PE
		97+62	USH 10, EB, RT	-	4	SIDEWALK
		97+90	USH 10, EB, RT	-	9	PE
		98+01	USH 10, WB, LT	-	26	PE
		98+06	USH 10, EB, RT	-	4	SIDEWALK
		98+55	USH 10, EB, RT	-	3	SIDEWALK
		98+98	USH 10, WB, LT	-	4	SIDEWALK
		99+30	USH 10, WB, LT	-	20	PE
		99+57	USH 10, WB, LT	-	3	SIDEWALK
		100+27	USH 10, WB, LT	-	15	PE
		100+73	USH 10, EB, RT	-	4	SIDEWALK
		100+47	USH 10, EB, RT	-	3	SIDEWALK
		102+27	USH 10, EB, RT	-	3	SIDEWALK
		103+54	USH 10, WB, LT	-	4	SIDEWALK
		103+96	USH 10, WB, LT	-	3	SIDEWALK
		104+45	USH 10, WB, LT	-	3	SIDEWALK
		104+71	USH 10, EB, RT	11	-	PE
		104+74	USH 10, WB, LT	11	-	PE
		105+21	USH 10, EB, RT	-	3	SIDEWALK
		105+51	USH 10, WB, LT	17	-	PE
		107+82	USH 10, EB, RT	-	16	PE
		108+31	USH 10, EB, RT	-	21	PE
		108+44	USH 10, WB, LT	-	3	SIDEWALK
		108+77	USH 10, EB, RT	-	4	SIDEWALK
		109+09	USH 10, WB, LT	-	14	PE
		109+42	USH 10, WB, LT	-	5	SIDEWALK
		109+98	USH 10, EB, RT	-	5	SIDEWALK
		110+81	USH 10, EB, RT	16	-	PE

SAWING PAVEMENT (CONTINUED)

ID	CATEGORY	STATION	LOCATION	690.0150 * SAWING ASPHALT LF	690.0250 * SAWING CONCRETE LF	REMARKS
PROJECT 1500-37-71						
	0010					
		111+13	USH 10, EB, RT	-	2	SIDEWALK
		111+40	USH 10, EB, RT	-	8	PE
		111+66	USH 10, EB, RT	-	3	SIDEWALK
		111+94	USH 10, EB, RT	-	18	PE
		112+57	USH 10, EB, RT	-	9	PE
		112+78	USH 10, EB, RT	-	3	SIDEWALK
		113+12	USH 10, EB, RT	-	8	PE
		113+33	USH 10, EB, RT	-	3	SIDEWALK
		113+86	USH 10, EB, RT	-	3	SIDEWALK
		114+27	USH 10, EB, RT	-	33	PE
		115+30	USH 10, EB, RT	-	5	SIDEWALK
		115+57	USH 10, EB, RT	-	9	PE
		115+88	USH 10, EB, RT	-	4	SIDEWALK
		116+23	USH 10, EB, RT	-	21	PE
		116+50	USH 10, EB, RT	-	4	SIDEWALK
		116+86	USH 10, EB, RT	-	20	PE
		117+44	USH 10, EB, RT	-	4	SIDEWALK
		118+90	USH 10, WB, LT	-	1	SIDEWALK
		119+16	USH 10, WB, LT	-	8	PE
		119+39	USH 10, WB, LT	-	2	SIDEWALK
		119+69	USH 10, WB, LT	-	9	PE
		119+69	USH 10, EB, RT	-	9	PE
		119+84	USH 10, EB, RT	-	3	SIDEWALK
		120+23	USH 10, EB, RT	-	7	PE
		120+26	USH 10, WB, LT	-	8	PE
		120+44	USH 10, EB, RT	-	4	SIDEWALK
		120+48	USH 10, WB, LT	-	3	SIDEWALK
		120+76	USH 10, WB, LT	-	11	PE
		120+78	USH 10, EB, RT	-	8	PE
		120+99	USH 10, WB, LT	-	4	SIDEWALK
		121+02	USH 10, EB, RT	-	4	SIDEWALK
		121+63	USH 10, EB, RT	-	4	SIDEWALK
		122+89	USH 10, EB, RT	-	9	PE
		123+07	USH 10, WB, LT	-	24	PE
		123+10	USH 10, EB, RT	-	4	SIDEWALK
		123+58	USH 10, WB, LT	-	16	PE
		123+75	USH 10, EB, RT	-	5	SIDEWALK
		124+12	USH 10, EB, RT	-	10	PE
		124+57	USH 10, WB, LT	-	20	PE
		124+62	USH 10, EB, RT	-	14	PE
		124+91	USH 10, WB, RT	-	4	SIDEWALK
		125+03	USH 10, WB, LT	-	5	SIDEWALK
		126+03	USH 10, EB, RT	-	5	SIDEWALK
		126+24	USH 10, WB, LT	-	3	SIDEWALK
		126+49	USH 10, EB, RT	-	3	SIDEWALK

* QUANTITIES SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

SAWING PAVEMENT (CONTINUED)

ID	CATEGORY	STATION	LOCATION	690.0150 * SAWING ASPHALT LF	690.0250 * SAWING CONCRETE LF	REMARKS
PROJECT 1500-37-71						
	0010					
		126+57	USH 10, WB, LT	-	4	SIDEWALK
		126+83	USH 10, EB, RT	-	19	PE
		126+83	USH 10, WB, LT	-	18	PE
		127+06	USH 10, WB, LT	-	4	SIDEWALK
		127+09	USH 10, EB, RT	-	3	SIDEWALK
		127+61	USH 10, EB, RT	-	3	SIDEWALK
		129+24	USH 10, EB, RT	-	15	PE
		129+68	USH 10, EB, RT	-	17	PE
		129+84	USH 10, WB, LT	-	5	SIDEWALK
		130+21	USH 10, EB, RT	-	4	SIDEWALK
		130+56	USH 10, WB, LT	-	5	SIDEWALK
		131+93	USH 10, EB, RT	-	17	PE
		132+18	USH 10, WB, LT	-	34	SIDEWALK TO CHURCH ENTRANCE
		132+40	USH 10, EB, RT	-	10	PE
		132+63	USH 10, EB, RT	-	3	SIDEWALK
		132+69	USH 10, WB, LT	-	5	SIDEWALK
		132+79	USH 10, WB, LT	15	-	CE
		132+96	USH 10, WB, LT	-	19	CHURCH PARKING
		133+20	USH 10, EB, RT	-	3	SIDEWALK
		134+26	USH 10, EB, RT	-	3	SIDEWALK
		134+80	USH 10, EB, RT	-	3	SIDEWALK
		135+02	USH 10, EB, RT	-	9	PE
		137+22	USH 10, WB, LT	-	4	SIDEWALK
		137+46	USH 10, WB, LT	-	3	SIDEWALK
		137+54	USH 10, EB, RT	-	21	PE
		138+10	USH 10, WB, LT	-	12	PE
		138+74	USH 10, WB, LT	11	-	PE
		139+14	USH 10, WB, LT	-	4	SIDEWALK
		139+21	USH 10, EB, RT	-	4	SIDEWALK
		139+46	USH 10, WB, LT	-	22	PE
		139+72	USH 10, WB, LT	-	4	SIDEWALK
		140+11	USH 10, EB, RT	-	11	PE
		140+45	USH 10, WB, LT	-	23	PE
		140+47	USH 10, EB, RT	-	21	PE
		140+76	USH 10, WB, LT	-	3	SIDEWALK
		140+91	USH 10, EB, RT	-	3	SIDEWALK
		142+64	USH 10, EB, RT	-	5	SIDEWALK
		143+25	USH 10, EB, RT	18	-	PE
		144+02	USH 10, EB, RT	-	17	PE
		144+54	USH 10, EB, RT	-	5	SIDEWALK
		148+98	USH 10, EB, RT	-	3	SIDEWALK
		148+98	USH 10, WB, LT	-	3	SIDEWALK
		149+63	USH 10, WB, LT	-	4	SIDEWALK
		149+84	USH 10, WB, LT	9	-	PE
		150+12	USH 10, EB, RT	-	11	PE

SAWING PAVEMENT (CONTINUED)

ID	CATEGORY	STATION	LOCATION	690.0150 * SAWING ASPHALT LF	690.0250 * SAWING CONCRETE LF	REMARKS
PROJECT 1500-37-71						
	0010					
		150+16	USH 10, WB, LT	-	11	PE
		150+41	USH 10, WB, LT	-	2	SIDEWALK
		151+98	USH 10, EB, RT	-	5	SIDEWALK
		10+80	FLEETWOOD DR	-	79	ROAD / SIDEWALK
		13+05	FLEETWOOD DR	-	40	PE
		9+40	N. 23RD ST	-	67	ROAD / SIDEWALK
		10+95	N. 23RD ST	-	58	ROAD / SIDEWALK
		9+10	MENCHL DR	-	31	ROAD
		9+35	N. 21ST ST	-	45	ROAD / SIDEWALK
		9+40	N. 21ST ST, RT	-	3	SIDEWALK
		10+89	N. 21ST ST, LT	-	12	PE
		11+00	N. 21ST ST	-	47	ROAD / SIDEWALK
		9+40	N. 20TH ST	-	46	ROAD / SIDEWALK
		10+85	PARK ROW BLVD, SB	-	34	ROAD / SIDEWALK
		10+60	PARK ROW BLVD, NB	-	34	ROAD / SIDEWALK
		10+65	ELM ST	30	14	ROAD / SIDEWALK
		9+00	N. 18TH ST	-	72	ROAD / SIDEWALK
		9+07	N. 18TH ST, RT	-	9	PE
		9+28	N. 18TH ST, RT	-	4	SIDEWALK
		10+90	N. 18TH ST	-	103	ROAD / SIDEWALK
		9+30	N. 17TH ST	-	50	ROAD / SIDEWALK
		10+85	N. 17TH ST	-	66	ROAD / SIDEWALK
		9+35	N. 16TH ST	-	64	ROAD / SIDEWALK
		10+85	N. 16TH ST	-	40	ROAD / SIDEWALK
		9+35	N. 15TH ST	-	40	ROAD / SIDEWALK
		11+00	N. 15TH ST	-	40	ROAD / SIDEWALK
		9+30	N. 14TH ST	26	14	ROAD / SIDEWALK
		9+50	N. 14TH ST, RT	-	5	SIDEWALK
		10+85	N. 14TH ST	-	48	ROAD / SIDEWALK
		9+35	N. 13TH ST	-	62	ROAD / SIDEWALK
		9+43	N. 13TH ST, LT	-	4	SIDEWALK
		8+15	N. 12TH ST	-	40	ROAD / SIDEWALK
		8+31	N. 12TH ST, LT	-	10	PE
		8+58	N. 12TH ST, LT	-	4	SIDEWALK
		8+94	N. 12TH ST, LT	-	20	PE
		10+85	N. 12TH ST	-	40	ROAD / SIDEWALK
		8+85	S. MENASHA AVE	-	50	ROAD / SIDEWALK
		9+12	S. MENASHA AVE, RT	-	28	PE
		11+69	N. MENASHA AVE, LT	-	6	SIDEWALK
		12+10	N. MENASHA AVE	-	57	ROAD / SIDEWALK
		9+35	N. 11TH ST	-	49	ROAD / SIDEWALK
		11+00	N. 11TH ST	-	107	ROAD / SIDEWALK
		9+35	N. 10TH ST	-	45	ROAD / SIDEWALK
		9+00	N. 9TH ST	-	41	ROAD / SIDEWALK
		11+25	N. 9TH ST	-	10	SIDEWALKS

3

* QUANTITIES SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

SAWING PAVEMENT (CONTINUED)

ID	CATEGORY	STATION	LOCATION	690.0150 * SAWING ASPHALT LF	690.0250 * SAWING CONCRETE LF	REMARKS
PROJECT 1500-37-71						
	0010					
		12+70	N. 9TH ST	-	31	ROAD
		8+50	N. 8TH ST	-	49	ROAD / SIDEWALK
		8+66	N. 8TH ST, LT	-	8	PE
		8+66	N. 8TH ST, RT	-	8	PE
		8+82	N. 8TH ST, RT	-	16	PE
		9+00	N. 8TH ST, LT	-	4	SIDEWALK
		9+10	N. 8TH ST, RT	-	4	SIDEWALK
		10+88	N. 8TH ST, RT	-	3	SIDEWALK
		11+50	N. 8TH ST	-	15	CURB & GUTTER / SIDEWALK
		12+90	N. 8TH ST	38	-	ROAD
		11+44	EMERGENCY RR CROSSING	-	20	CURB & GUTTER
				240	2,970	
	CATEGORY 0010 TOTALS					
PROJECT 1500-37-71						
	0020					
			ENTIRE PROJECT	-	1,500	REMOVALS FOR COLORED XWALKS
	CATEGORY 0020 TOTALS			0	1,500	
	PROJECT TOTALS			240	4,470	
PROJECT 4570-12-71						
	0010					
		152+48	STH 42, LT	-	23	PE
		152+63	STH 42, LT	-	5	SIDEWALK
		152+95	STH 42, RT	-	17	PE
		153+90	STH 42, RT	-	22	PE
		153+97	STH 42, LT	-	16	PE
		154+61	STH 42, RT	-	43	PE
		157+12	STH 42, RT	-	14	PE
		157+37	STH 42, RT	-	16	PE
		158+07	STH 42, RT	-	2	SIDEWALK
		158+14	STH 42, LT	-	4	SIDEWALK
		158+43	STH 42, RT	-	13	PE
		158+46	STH 42, LT	10	-	PE
		159+46	STH 42, LT	-	3	SIDEWALK
		160+40	STH 42, RT	-	3	SIDEWALK
		160+81	STH 42, LT	-	3	SIDEWALK
		160+93	STH 42, RT	-	11	PE
		161+77	STH 42, RT	-	11	PE
		162+24	STH 42, LT	-	20	PE
		163+40	STH 42, RT	-	17	PE
		164+04	STH 42, LT	12	-	PE

SAWING PAVEMENT (CONTINUED)

ID	CATEGORY	STATION	LOCATION	690.0150 * SAWING ASPHALT LF	690.0250 * SAWING CONCRETE LF	REMARKS
PROJECT 4570-12-71						
	0010					
		164+82	STH 42, RT	-	13	PE
		165+70	STH 42, LT	12	-	PE
		165+72	STH 42, RT	-	14	PE
		156+79	STH 42, LT	12	-	PE
		167+31	STH 42, RT	21	-	PE
		167+45	STH 42, LT	-	8	PE
		168+84	STH 42, LT	18	-	PE
		169+25	STH 42, RT	16	-	PE
		169+53	STH 42, RT	16	-	PE
		170+20	STH 42, RT	-	15	PE
		172+57	STH 42, RT	-	5	SIDEWALK
		180+12	STH 42, RT	9	-	SIDEWALK
		180+89	STH 42, LT	-	15	PE
		184+23	STH 42, RT	36	-	CE
		184+32	STH 42, LT	30	-	CE
		192+40	STH 42, RT	16	-	TRAIL
		194+03	STH 42, RT	175	-	PARKING LOT
		194+90	STH 42, RT	16	35	ROAD
		194+90	STH 42, LT	-	36	ROAD
		195+50	STH 42, MEDIAN	-	277	ROAD / CURB & GUTTER
		9+10	LINCOLN BLVD, SB	-	31	ROAD / SIDEWALK
		9+15	LINCOLN BLVD, SB, LT	-	5	SIDEWALK
		10+85	LINCOLN BLVD, SB	-	31	ROAD / SIDEWALK
		9+10	LINCOLN BLVD, NB	-	31	ROAD / SIDEWALK
		9+31	LINCOLN BLVD, NB, RT	-	8	SIDEWALK
		10+85	LINCOLN BLVD, NB	-	31	ROAD / SIDEWALK
		9+35	N. 6TH ST	-	63	ROAD / SIDEWALK
		9+52	N. 6TH ST, LT	-	16	PE
		11+00	N. 6TH ST	-	42	ROAD / SIDEWALK
		10+60	N. 5TH ST	-	41	ROAD / SIDEWALK
		10+75	MARITIME DR	-	75	ROAD / SIDEWALK
		12+79	MARITIME DR, RT	16	-	TRAIL
	PROJECT TOTALS			415	1,035	
	TOTALS			755	7,210	

* QUANTITIES SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

REMOVING BURIED CATTLE PASS, STATION 161+35

ID	STATION	LOCATION	SPV.0035.02 CY
PROJECT 4570-12-71			
	161+35	USH 10	10
	TOTAL		10

UTILITY LINE OPENINGS

ID	STATION	LOCATION	SPV.0060.12 EACH
PROJECT 1500-37-71			
	UNDISTRIBUTED	USH 10	20
	PROJECT TOTAL		20
PROJECT 4570-12-71			
	UNDISTRIBUTED	STH 42	20
	PROJECT TOTAL		20
	TOTAL		40

REMOVING AND REINSTALL CHAIN LINK FENCE

ID	STATION	LOCATION	SPV.0090.10 LF
PROJECT 1500-37-71			
	10+40	EMERGENCY VEHICLE RR CROSSING	30
	TOTAL		30

3

GRADING AND SHAPING EMERGENCY VEHICLE RAILROAD CROSSING

ID	STATION	TO	STATION	LOCATION	SPV.0105.01 LS	FOR INFORMATIONAL PURPOSES ONLY CUT CY	FILL CY
PROJECT 1500-37-71							
	10+20	-	11+45	EMERGENCY RR CROSSING	1	26	3
	TOTAL				1	26	3

POLYMER-COATED CHAIN LINK FENCE

ID	STATION	TO	STATION	LOCATION	FENCE 6-FT SPV.0090.11 LF	GATES 10-FT WIDE SPV.0090.12 LF
PROJECT 1500-47-71						
	69+55	-	70+00	USH 10, WB	45	-
	69+20	-	70+00	USH 10, EB	70	10
	PROJECT TOTAL				115	10
PROJECT 1500-37-71						
	70+00	-	71+90	USH 10, WB	180	10
	70+00	-	70+00	USH 10, EB	80	-
	PROJECT TOTAL				260	10
PROJECT 4570-12-71						
	174+20	-	175+25	USH 10, EB	125	-
	PROJECT TOTAL				125	0
	TOTALS				500	20

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

LIGHTING UNITS, PULL BOXES, CONCRETE BASES, AND POLES

ID	CATEGORY	UNIT	STATION	LOCATION	SPV.0060.21 CONCRETE BASES TYPE 7 SPECIAL EACH	SPV.0060.22 CONCRETE BASES TYPE 8 SPECIAL EACH	SPV.0060.23 COMPOSITE LIGHT POLES 40-FT EACH	SPV.0060.24 LUMINAIRE ARMS ALUMINUM 6-FT EACH	SPV.0060.25 LUMINAIRE ARMS ALUMINUM 8-FT EACH	SPV.0060.26 LUMINAIRE ARMS ALUMINUM 15-FT EACH	SPV.0060.27 LUMINAIRE LED EACH	SPV.0060.28 LUMINAIRE LED SPECIAL EACH	SPV.0060.29 LUMINAIRE LED RAB EACH	SPV.0060.30 LIGHTING PULL BOX EACH	655.0610 ELECTRICAL WIRING LIGHTING 12 AWG LF *	REMARKS
PROJECT 1500-37-71																
	0050															
		1-31	71+05	USH 10, MEDIAN	1	-	1	-	1	-	1	-	-	-	195	
		PB-20	71+05	USH 10, RT	-	-	-	-	-	-	-	-	-	1	-	
		4-9	72+75	USH 10, RT	1	-	1	-	-	1	1	-	-	1	195	
		4-8	74+40	USH 10, RT	1	-	1	-	-	1	1	-	-	1	195	
		4-7	76+20	USH 10, RT	-	1	1	-	-	1	1	-	-	1	195	
		4-6	78+00	USH 10, RT	-	1	1	-	-	1	1	-	-	1	195	
		PB-19	78+51	USH 10, RT	-	-	-	-	-	-	-	-	-	1	-	
		4-5	80+00	USH 10, RT	-	1	1	-	-	1	1	-	-	1	195	
		4S-2	82+00	USH 10, RT	-	1	1	-	-	1	-	1	-	1	225	
		4S-1	84+75	USH 10, RT	-	1	1	-	-	1	-	1	-	1	225	
		4-4	86+35	USH 10, RT	-	1	1	-	-	1	1	-	-	1	195	
		4-3	88+15	USH 10, RT	1	-	1	-	-	1	1	-	-	1	195	
		4-2	90+00	USH 10, RT	1	-	1	-	-	1	1	-	-	1	195	
		4-1	92+00	USH 10, RT	1	-	1	-	-	1	1	-	-	1	195	
		PB-18	92+46	USH 10, RT	-	-	-	-	-	-	-	-	-	1	-	INSTALL ADJACENT TO MPU POLE 5H7103
		1-30	94+10	USH 10, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		PB-17	96+72	USH 10, RT	-	-	-	-	-	-	-	-	-	1	-	INSTALL ADJACENT TO MPU POLE 5H7118
		1-29	97+10	USH 10, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		1-28	99+90	USH 10, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		1-27	102+35	USH 10, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		1-26	105+05	USH 10, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		PB-16	106+00	USH 10, MEDIAN	-	-	-	-	-	-	-	-	-	1	-	
		PB-15	106+38	N. 20TH ST, LT	-	-	-	-	-	-	-	-	-	1	-	INSTALL ADJACENT TO MPU POLE 5H6752
		1-25	108+00	USH 10, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		1-24	110+50	USH 10, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		1-23	113+20	USH 10, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		1-22	115+55	USH 10, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		1-21	120+60	USH 10, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		1-20	123+50	USH 10, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		1-19	126+35	USH 10, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		PB-14	127+55	USH 10, MEDIAN	-	-	-	-	-	-	-	-	-	1	-	
		PB-13	127+95	N. 15TH ST, LT	-	-	-	-	-	-	-	-	-	1	-	INSTALL ADJACENT TO MPU POLE 5G7035
		1-18	129+10	USH 10, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		1-17	132+10	USH 10, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		1-16	135+25	USH 10, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		1-15	137+25	USH 10, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		PB-11	138+46	USH 10, MEDIAN	-	-	-	-	-	-	-	-	-	1	-	
		PB-12	138+46	USH 10, RT	-	-	-	-	-	-	-	-	-	1	-	INSTALL ADJACENT TO MPU POLE 5G7072
		1-14	139+10	USH 10, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		PB-10	141+31	N. 11TH ST, LT	-	-	-	-	-	-		-	-	1		
		PB-9	141+81	N. 11TH ST, RT	-	-	-	-	-	-	-	-	-	1	-	
		PB-8	142+05	USH 10, LT	-	-	-	-	-	-	-	-	-	1	-	
		PB-7	142+05	USH 10, RT	-	-	-	-	-	-	-	-	-	1	-	
		2-5	142+75	USH 10, RT	1	-	1	-	1	-	1	-	-	1	195	
		2-4	144+25	USH 10, LT	1	-	1	-	1	-	1	-	-	1	195	

* QUANTITIES SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

LIGHTING UNITS, PULL BOXES, CONCRETE BASES, AND POLES (CONTINUED)

ID	CATEGORY	UNIT	STATION	LOCATION	SPV.0060.21 CONCRETE BASES TYPE 7 SPECIAL EACH	SPV.0060.22 CONCRETE BASES TYPE 8 SPECIAL EACH	SPV.0060.23 COMPOSITE LIGHT POLES 40-FT EACH	SPV.0060.24 LUMINAIRE ARMS ALUMINUM 6-FT EACH	SPV.0060.25 LUMINAIRE ARMS ALUMINUM 8-FT EACH	SPV.0060.26 LUMINAIRE ARMS ALUMINUM 15-FT EACH	SPV.0060.27 LUMINAIRE LED EACH	SPV.0060.28 LUMINAIRE LED SPECIAL EACH	SPV.0060.29 LUMINAIRE LED RAB EACH	SPV.0060.30 LIGHTING PULL BOX EACH	655.0610 ELECTRICAL WIRING LIGHTING 12 AWG LF *	REMARKS
PROJECT 1500-37-71																
	0050															
		2-3	146+00	USH 10, RT	1	-	1	-	1	-	1	-	-	1	195	
		2-2	147+50	USH 10, LT	1	-	1	-	1	-	1	-	-	1	195	
		2-1	149+15	USH 10, RT	1	-	1	-	1	-	1	-	-	1	195	
	PROJECT TOTALS				28	6	34	0	40	11	49	2	0	47	10,005	
PROJECT 4570-12-71																
	0050															
		1-13	154+00	STH 42, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		1-12	156+90	STH 42, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		1-11	159+25	STH 42, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		1-10	161+80	STH 42, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		1-9	164+35	STH 42, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		PB-6	164+85	STH 42, MEDIAN	-	-	-	-	-	-	-	-	-	1	-	
		PB-6A	164+85	STH 42, LT	-	-	-	-	-	-	-	-	-	1	-	INSTALL ADJACENT TO PAD MOUNT TRANSFORMER
		1-8	166+80	STH 42, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		1-7	169+80	STH 42, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		1-6	172+70	STH 42, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		1-5	175+70	STH 42, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		1-4	178+70	STH 42, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		1-3	181+70	STH 42, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		PB-5	181+74	STH 42, LT	-	-	-	-	-	-	-	-	-	1	-	INSTALL ADJACENT TO MPU POLE 5E7336
		1-2	184+85	STH 42, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		1-1	187+25	STH 42, MEDIAN	1	-	1	-	2	-	2	-	-	1	390	
		3-1	188+22	STH 42, LT	1	-	1	-	-	1	-	-	1	1	195	
		3-2	188+71	STH 42, LT	1	-	1	-	-	1	-	-	1	1	195	
		3-3	189+65	STH 42, LT	1	-	1	-	-	1	-	-	1	1	195	
		3-4	190+86	STH 42, LT	1	-	1	-	-	1	-	-	1	1	195	
		3-5	191+76	STH 42, LT	1	-	1	-	-	1	-	-	1	1	195	
		PB-1	192+36	STH 42, LT	-	-	-	-	-	-	-	-	-	1	-	INSTALL ADJACENT TO MPU POLE 5E7973
		3-13	187+98	STH 42, RT	1	-	1	-	-	1	-	-	1	1	195	
		3-12	0+84	ROUNDABOUT CIRCLE, RT	1	-	1	-	-	1	-	-	1	1	195	
		3-11	189+17	STH 42, RT	1	-	1	-	-	1	-	-	1	1	195	
		PB-4	187+63	STH 42, RT	-	-	-	-	-	-	-	-	-	1	-	INSTALL ADJACENT TO MPU POLE SE6958
		3-10	189+86	STH 42, RT	1	-	1	1	-	-	-	-	1	1	195	
		3-9	1+78	ROUNDABOUT CIRCLE, RT	1	-	1	-	-	1	-	-	1	1	195	
		3-8	190+53	STH 42, RT	1	-	1	-	-	1	-	-	1	1	195	
		3-7	190+82	STH 42, RT	1	-	1	-	-	1	-	-	1	1	195	
		3-6	191+15	STH 42, RT	1	-	1	-	-	1	-	-	1	1	195	
		PB-2	191+65	STH 42, RT	-	-	-	-	-	-	-	-	-	1	-	
		PB-3	191+12	STH 42, LT	-	-	-	-	-	-	-	-	-	1	-	
	PROJECT TOTALS				26	0	26	1	26	12	26	0	13	33	7,605	
	TOTALS				54	6	60	1	66	23	75	2	13	80	17,610	

* QUANTITIES SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

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MONUMENTS

ID	STATION	LOCATION	SPV.0105.05 PRESERVATION OF EXISTING MONUMENTS PROJECT 1500-37-71 LS	SPV.0105.06 PRESERVATION OF EXISTING MONUMENTS PROJECT 1500-47-71 LS	SPV.0105.07 PRESERVATION OF EXISTING MONUMENTS PROJECT 4570-12-71 LS	SPV.0105.08 VERIFY AND RESTORING OF EXISTING MONUMENTS PROJECT 1500-37-71 LS	SPV.0105.09 VERIFY AND RESTORING OF EXISTING MONUMENTS PROJECT 1500-37-72 LS	SPV.0105.10 VERIFY AND RESTORING OF EXISTING MONUMENTS PROJECT 4570-12-71 LS
PROJECT 1500-37-71								
	ENTIRE PROJECT	USH 10	1	-	-	1	-	-
	PROJECT TOTALS		1	0	0	1	0	0
PROJECT 1500-47-71								
	ENTIRE PROJECT	USH 10	-	1	-	-	1	-
	PROJECT TOTALS		0	1	0	0	1	0
PROJECT 4570-12-71								
	ENTIRE PROJECT	STH 42	-	-	1	-	-	1
	PROJECT TOTALS		0	0	1	0	0	1
	TOTALS		1	1	1	1	1	1

RECTANGULAR RAPID FLASHING BEACON

ID	STATION	LOCATION	654.0101 * CONCRETE BASES TYPE 1 EACH	657.0100 * PEDESTAL BASES EACH	657.0425 * TRAFFIC SIGNAL STANDARDS ALUMINIUM 15-FT EACH	658.0500 * PEDESTRIAN PUSH BUTTONS EACH	SPV.0105.11 RECTANGULAR RAPID FLASHING BEACON (RRFB) SYSTEM WITH PEDESTRIAN ACTIVATION LS	SPV.0105.12 SALVAGE AND REINSTALL RECTANGULAR RAPID FLASHING BEACON (RRFB) SYSTEM WITH PEDESTRIAN ACTIVATION LS
PROJECT 1500-37-71								
	127+80	USH 10, EB	3	3	3	3	1	-
	148+00	USH 10, EB	3	3	3	-	-	1
	TOTALS		6	6	6	3	1	1

* ADDITONAL QUANTITIES SHOWN ELSEWHERE

GRADING AND SHAPING OUTFALL DISSIPATOR

ID	STATION	LOCATION	SPV.0105.14 LS	FOR INFORMATION PURPOSES ONLY CUT CY	FILL CY
PROJECT 4570-12-71					
	174+70	STH 42	1	600	-
			1	600	0

BRICK PAVERS

ID	STATION	TO	STATION	LOCATION	REMOVE AND SALVAGE SPV.0165.01 SF	INSTALL SALVAGED SPV.0165.02 SF
PROJECT 1500-37-71						
	71+61	-	71+81	USH 10, EB	165	165
	TOTALS				165	165

SALVAGING AND REPLACING CONCRETE RIPRAP

ID	STATION	LOCATION	SPV.0180.01 SY
PROJECT 4570-12-71			
	13+20	MARITIME DR, NB (NME)	60
	TOTAL		60

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

SANITARY MANHOLES

ID	STATION	MANHOLE #	LOCATION	SPV.0060.200 CASTING TYPE J EACH	SPV.0060.0201 CHIMNEY SEAL EACH	SPV.0060.202 REMOVE MANHOLE EACH	SPV.0060.203 RECONSTRUCT BENCH LS	SPV.0200.200 MANHOLE 4-FOOT VF	SPV.0200.201 RECONSTRUCT MANHOLE VF	SPV.0200.202 DROP MANHOLE VF
PROJECT 1500-37-72										
	72+21EB	-	USH 10	-	-	1	-	-	-	-
	10+82, 57'RT	31A	CITY PARKS SHOP	1	-	-	-	12.8	-	4.6
	10+60FW, 37'RT	31	FLEETWOOD DRIVE	1	-	1	-	13.3	-	-
	72+41EB 64'LT	30	USH 10	1	-	1	-	13.4	-	6.5
	10+64NTR, 2'LT	29	N 23RD STREET	1	-	1	-	8.2	-	-
	93+48EB, 35'LT	28	USH 10	1	-	-	-	8.6	-	-
	93+51EB, 2'LT	-	USH 10	-	-	1	-	-	-	-
	96+71EB, 35'LT	27	USH 10	1	-	-	-	10.4	-	-
	96+72EB	-	USH 10	-	-	1	-	-	-	-
	9+06MC	-	MENCHL DRIVE	-	-	-	1	-	-	-
	99+68EB, 35'LT	26	USH 10	1	-	1	-	10.1	-	-
	100+53EB, 19'RT	25	USH 10	1	-	1	-	10.8	-	-
	102+99EB, 18'RT	24	USH 10	1	-	1	-	14.1	-	4.0
	106+50EB, 18'RT	23	USH 10	1	-	1	-	15.7	-	6.7
	107+60EB, 19'RT	22	USH 10	1	-	-	-	15.6	-	2.3
	110+62EB, 18'RT	21	USH 10	1	-	1	-	13.6	-	-
	113+61EB, 19'RT	20	USH 10	1	-	1	-	13.1	-	-
	116+62EB, 18'RT	19	USH 10	1	-	1	-	12.7	-	-
	118+24EB, 11'LT	18	USH 10	1	-	1	-	13.0	-	4.7
	122+08EB, 11'LT	17	USH 10	1	-	1	-	9.9	-	-
	123+94EB, 11'LT	16A	USH 10	1	-	1	-	10.7	-	-
	125+52EB, 11'LT	16	USH 10	1	-	1	-	9.9	-	-
	9+64 FT, 0'LT	15A	N 15TH STREET	1	-	-	-	9.7	-	-
	128+15EB, 12'LT	15	USH 10	1	-	1	-	11.9	-	-
	9+64FO, 1'LT	14A	N 14TH STREET	1	-	1	-	10.8	-	4.5
	130+95EB, 12'LT	14	USH 10	1	-	1	-	11.1	-	-
	130+99EB	-	USH 10	-	-	1	-	-	-	-
	9+61TH, 0'LT	13A	N 13TH STREET	1	-	-	-	10.3	-	3.7
	133+75EB, 11'LT	13	USH 10	1	-	1	-	10.4	-	-
	134+00EN, 2'LT	12A	USH 10	1	-	-	-	10.7	-	-
	10+58MN	-	N MENASHA AVENUE	1	-	-	-	-	-	-
	135+59, 35'LT	12	USH 10	1	-	-	-	16.6	-	5.9
	135+91EB	-	USH 10	-	-	1	-	-	-	-
	136+51EB	-	USH 10	-	-	1	-	-	-	-
	136+53EB, 35'LT	11	USH 10	1	-	-	-	17.1	-	-
	9+26TW	11A	N 12TH STREET	1	-	1	-	14.4	-	7.25 & 6.6
	138+82EB	-	USH 10	-	-	1	-	-	-	-
	139+13EB, 35'LT	10	USH 10	1	-	-	-	17.1	-	-
	141+56EB, 35'LT	9	USH 10	1	-	-	-	18.3	-	4.9
	141+49EB	-	USH 10	-	-	1	-	-	-	-
	141+56EB, 22'RT	9B	USH 10	1	-	-	-	11.7	-	3.3
	145+21EB	-	USH 10	-	-	1	-	-	-	-
	145+21EB, 22'RT	8	USH 10	1	-	-	-	8.0	-	-
	147+72EB	-	USH 10	-	-	1	-	-	-	-
	148+35EB	-	USH 10	-	-	1	-	-	-	-

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

SANITARY MANHOLES (CONTINUED)

ID	STATION	MANHOLE #	LOCATION	SPV.0060.200 CASTING TYPE J EACH	SPV.0060.0201 CHIMNEY SEAL EACH	SPV.0060.202 REMOVE MANHOLE EACH	SPV.0060.203 RECONSTRUCT BENCH LS	SPV.0200.200 MANHOLE 4-FOOT VF	SPV.0200.201 RECONSTRUCT MANHOLE VF	SPV.0200.202 DROP MANHOLE VF
PROJECT 1500-37-72										
	148+35EB,19'RT	-	USH 10	-	-	1	-	-	-	-
	148+35EB, 21'RT	7A	USH 10	1	-	-	-	6.3	-	-
	11+80NN	-	N 9TH STREET	1	-	-	-	-	-	-
	12+52NN	-	N 9TH STREET	1	-	1	-	29.0	-	19.0 & 14.0
	148+99EB, 41'LT	7	USH 10	1	-	1	-	6.4	-	-
	151+37EB	-	USH 10	-	-	1	-	-	-	-
	151+37EB, 21'RT	6A	USH 10	1	-	-	-	8.0	-	-
	151+37EB, 41'LT	6	USH 10	1	-	1	-	7.7	-	-
	12+65EG, 15'LT		N 8TH STREET	1	-	-	-	-	-	-
	152+11EB, 15'RT	-	USH 10	-	-	1	-	-	-	-
	152+11EB, 35'LT	6B	USH 10	1	-	1	-	7.2	-	-
	PROJECT TOTAL			41	0	37	1	458.6	0	98
PROJECT 4570-12-72										
	155+15EB, 36'LT	4	STH 42	1	-	1	-	7.9	-	-
	155+60EB, 19'LT	4B	STH 42	1	-	1	-	17.7	-	8.5
	155+60EB	-	STH 42	-	-	1	-	-	-	-
	155+60EB, 21'RT	4A	STH 42	1	-	-	-	10.1	-	-
	156+23EB, 19'LT	3	STH 42	1	-	1	-	17.1	-	7.7
	156+23EB, 21'RT	3A	STH 42	1	-	-	-	10.7	-	-
	159+57EB, 21'RT	1A	STH 42	1	-	-	-	9.6	-	-
	159+85EB, 20'LT	2	STH 42	1	-	1	-	13.5	-	5.1
	159+85EB, 35'RT	1	STH 42	1	-	1	-	13.0	-	-
	160+25EB, 42'LT	-	STH 42	-	-	1	-	-	-	-
	161+07EB, 53'LT	-	STH 42	-	-	1	-	-	-	-
	163+52EB, 28'RT	16-28	IN DRWY APPROACH SOUTH SIDE OF STH 42	1	-	1	-	9.5	-	-
	163+52EB	16-135	IN PAV'T NORTH SIDE OF STH 42	1	1	-	-	-	-	-
	163+52EB	16-136	IN PAV'T NORTH SIDE OF STH 42	1	1	-	-	-	-	-
	166+90	16-29	IN LAWN SOUTH SIDE OF STH 42	1	-	-	-	-	-	-
	166+92	16-129	IN SIDEWALK SOUTH SIDE OF STH 42	1	-	-	-	-	-	-
	166+92	16-130	IN LAWN NORTH SIDE OF STH 42	1	-	-	-	-	-	-
	168+90	16-33	IN LAWN NORTH SIDE OF STH 42	1	-	-	-	-	-	-
	170+01	16-30	IN LAWN SOUTH SIDE OF STH 42	1	-	-	-	-	-	-
	185+40	17-71A	STH 42	1	1	1	-	13.2	-	-
	189+53	17-71	STH 42 IN FUTURE ROUNDABOUT ISLAND	1	-	-	-	-	5.9	-
	11+64	17-69	IN LAWN EAST SIDE OF MARITIME DRIVE	1	-	-	-	-	-	-
	13+16	17-70	IN PAV'T WEST SIDE OF MARITIME DRIVE	1	-	-	-	-	4.2	-
	PROJECT TOTAL			20	3	10	0	122.3	10.1	21.3
	TOTAL			61	3	47	1	580.9	10.1	119.3

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

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TELEVISING SEWERS

ID	MH	TO	MH	LOCATION	SPV.0090.07 LF
PROJECT 1500-37-72					
	68+43EB, 40'RT	-	72+45EB, 40'RT	USH 10	402
	68+80EB, 63'LT	-	30	USH 10	361
	30	-	31	USH 10	41
	31	-	31A	USH 10	30
	29	-	28	USH 10	29
	28	-	SOUTH	N 23RD STREET	34
	28	-	27	USH 10	323
	27	-	26	USH 10	296
	26	-	25	USH 10/STH 42	101
	25	-	24	USH 10	246
	24	-	23	USH 10	351
	23	-	22	USH 10	110
	22	-	21	USH 10	302
	21		20	USH 10	299
	20	-	19	USH 10	301
	19	-	18	USH 10	164
	18	-	NORTH & SOUTH	N 18TH STREET	103
	18	-	17	USH 10	384
	17	-	16A	USH 10	186
	16A	-	16	USH 10	158
	16	-	15	USH 10	264
	15	-	14	USH 10	280
	14	-	13	USH 10	280
	13	-	12A	USH 10	35
	12A	-	12	USH 10	158
	12	-	11	USH 10	94
	11	-	NORTH	N 12TH STREET	50
	11	-	10	USH 10	260
	10	-	9	USH 10	244
	9	-	9B	USH 10	57
	9B	-	SOUTH	N 11TH STREET	27
	9B	-	8	USH 10	365
	7A	-	6A	USH 10	301
	6A	-	152+25	USH 10	88
	15A	-	15	USH 10	48
	14A	-	14	USH 10	48
	13A	-	13	USH 10	50
	11A	-	11	USH 10	109
	7	-	6	USH 10	238
	6B	-	152+25	USH 10	14
	PROJECT TOTAL				7,231

TELEVISING SEWERS (CONTINUED)

ID	MH	TO	MH	LOCATION	SPV.0090.07 LF
PROJECT 4570-12-72					
	152+25	-	4A	STH 42	335
	4A	-	3A	STH 42	63
	3A	-	1A	STH 42	335
	1A	-	1	STH 42	31
	1	-	2	STH 42	55
	152+25	-	4	STH 42	290
	4	-	4B	STH 42	45
	4B	-	3	STH 42	63
	3	-	2	STH 42	362
	PROJECT TOTAL				1,579
	TOTAL				8,810

FURNISHING AND INSTALLING SANITARY SEWER PIPE

ID	MH	TO	MH	LOCATION	SPV.0090.200 8-INCH LF	SPV.0090.201 10-INCH LF	SPV.0090.202 12-INCH LF	SPV.0090.203 21-INCH LF
PROJECT 1500-37-72								
	31	-	31A	USH 10	-	30	-	-
	28	-	27	USH 10	-	323	-	-
	27	-	26	USH 10	-	296	-	-
	13	-	12A	USH 10	-	-	35	-
	12A	-	12	USH 10	-	-	158	-
	12	-	11	USH 10	-	-	-	94
	11	-	10	USH 10	-	-	-	260
	10	-	9		-	-	-	244
	9	-	9B	USH 10	-	-	-	-
	9B	-	8	USH 10	365	-	-	-
	7A	-	6A	USH 10	301	-	-	-
	6A	-	152+25	USH 10	88	-	-	-
	PROJECT TOTAL				754	649	193	598
PROJECT 4570-12-72								
	152+25	-	4A	STH 42	335	-	-	-
	4A	-	3A	STH 42	63	-	-	-
	3A	-	1A	STH 42	335	-	-	-
	1A	-	1	STH 42	31	-	-	-
	PROJECT TOTAL				764	0	0	0
	TOTAL				1,518	649	193	598

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

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FURNISHING AND RELAYING SANITARY SEWER PIPE

ID	MH	TO	MH	LOCATION	SPV.0090.204 8-INCH LF	SPV.0090.205 10-INCH LF	SPV.0090.206 12-INCH LF	SPV.0090.207 15-INCH LF	SPV.0090.208 18-INCH LF	SPV.0090.209 24-INCH C-900 LF	REMARKS
PROJECT 1500-37-72											
	65+26	-	30	USH 10	140	-	-	-	-	-	68LF WB, 72LF EB
	-	-	30	USH 10	28	-	-	-	-	-	CONNECTS TO EXISITING FROM WEST
	30	-	31	USH 10	-	-	-	-	41	-	
	29	-	28	USH 10	-	29	-	-	-	-	
	-	-	28	N 23RD STREET	34	-	-	-	-	-	CONNECTS TO EXISTING FROM SOUTH
	23	-	22	USH 10	-	-	110	-	-	-	
	22	-	21	USH 10	-	-	302	-	-	-	
	19	-	18	USH 10	-	-	164	-	-	-	
	-	-	18	N 18TH STREET	103	-	-	-	-	-	40' CONNECTS FROM SOUTH AND 63' CONNECTS FROM NORTH FROM EXISTING
	18	-	17	USH 10	-	-	384	-	-	-	
	17	-	16A	USH 10	-	-	186	-	-	-	
	16A	-	16	USH 10	-	-	158	-	-	-	
	16	-	15	USH 10	-	-	264	-	-	-	
	15	-	14	USH 10	-	-	280	-	-	-	
	14	-	13	USH 10	-	-	280	-	-	-	
	-	-	11	N 12TH STREET	-	-	-	50	-	-	CONNECTS TO EXISTING FROM NORTH
	9	-	9B	USH 10	57	-	-	-	-	-	
	-	-	9B	N 11TH STREET	27	-	-	-	-	-	CONNECTS TO EXISTING FROM SOUTH
	15A	-	15	USH 10	48	-	-	-	-	-	
	14A	-	14	USH 10	48	-	-	-	-	-	
	13A	-	13	USH 10	50	-	-	-	-	-	
	11A	-	11	USH 10	109	-	-	-	-	-	
	PROJECT TOTAL				644	29	2,128	50	41	0	
PROJECT 4570-12-72											
	1	-	2	STH 42	-	-	-	-	-	55	
	PROJECT TOTAL				0	0	0	0	0	55	
	TOTAL				644	29	2,128	50	41	55	

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

3

ABANDONING SANITARY SEWER

ID	STATION	TO	STATION	LOCATION	SPV.0090.213 LF
PROJECT 1500-37-72					
	93+51	-	99+68	USH 10	617
	9+06	-	10+42	MENCHL DRIVE	126
	133+75	-	135+91	USH 10	216
	135+91	-	138+82	USH 10	285
	138+82	-	141+56	USH 10	280
	MH 6	-	MH 6A	USH 10	56
	PROJECT TOTAL				1,580
PROJECT 4570-12-72					
	MH 4A	-	MH 4B	STH 42	40
	MH 3	-	MH 3A	STH 42	40
	159+85	-	161+05	STH 42	125
	PROJECT TOTAL				205
	TOTAL				1,785

REMOVE EXISTING SANITARY SEWER

ID	STATION	TO	STATION	LOCATION	SPV.0090.210 LF
PROJECT 1500-37-72					
	141+56	-	147+73	USH 10	617
	148+35	-	151+37	USH 10	302
	152+11	-	152+25	USH 10	14
	PROJECT TOTAL				933
PROJECT 4570-12-72					
	152+25	-	155+60	STH 42	335
	PROJECT TOTAL				335
	TOTAL				1,268

SANITARY LATERAL

ID	MH	TO	MH	LOCATION	SPV.0060.204 RECONNECT EACH	SPV.0090.211 6-INCH LF	SPV.0090.212 RISERS LF
PROJECT 1500-37-72							
	28	-	27	USH 10	8	420	-
	27	-	26	USH 10	12	585	-
	25	-	24	USH 10	4	80	18
	24	-	NORTH	N 24TH STREET	2	60	-
	24	-	23	USH 10	3	170	23
	23	-	NORTH	PARK ROW BLVD	1	30	-
	23	-	22	USH 10	1	20	8
	22	-	21	USH 10	3	115	21
	21	-	20	USH 10	5	100	30
	20	-	19	USH 10	4	80	20
	19	-	18	USH 10	2	52	10
	18	-	17	USH 10	8	368	-
	17	-	16A	USH 10	4	184	-
	16A	-	16	USH 10	4	184	-
	16	-	15	USH 10	6	276	-
	15	-	14	USH 10	2	92	-
	14	-	13	USH 10	4	183	-
	12A	-	12	USH 10	2	140	-
	11	-	10	USH 10	5	170	40
	10	-	9	USH 10	2	50	16
	9B	-	8	USH 10	4	60	-
	16-75	-	16-74	N 9TH STREET	2	34	-
	7	-	6	USH 10	2	40	-
	6B	-	152+25	USH 10	1	25	-
	6	-	16-59	N 8TH STREET	5	105	-
	PROJECT TOTAL				96	3,623	186
PROJECT 4570-12-72							
	152+25	-	4	STH 42	3	75	-
	152+25	-	4A	STH 42	2	30	-
	3	-	2	STH 42	4	160	-
	3A	-	1A	STH 42	3	45	-
	PROJECT TOTAL				12	310	0
	TOTAL				108	3,933	186

TRENCH BACKFILL

ID	STATION		SPV.0195.200 IMPORTED TRENCH BACKFILL TON	SPV.0195.201 TRENCH STABILIZATION TON
PROJECT 1500-37-72				
	UNDISTRIBUTED	USH 10	2,100	400
	PROJECT TOTAL		2,100	400
PROJECT 4570-12-72				
	UNDISTRIBUTED	STH 42	400	60
	PROJECT TOTAL		400	60
	TOTAL		2,500	460

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

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GATE VALVES AND BOX

ID	STATION	LOCATION	SPV.0060.102 * 6-INCH EA	SPV.0060.103 8-INCH EA	SPV.0060.104 10-INCH EA	SPV.0060.105 12-INCH EA
PROJECT 1500-37-72						
	70+01	USH 10, LT	-	-	-	1
	72+04	USH 10, LT	-	-	-	2
	72+28	USH 10, LT	1	-	-	1
	83+03	USH 10, RT	-	-	-	1
	84+25	USH 10, RT	-	-	-	1
	93+61	USH 10, LT	-	1	-	2
	99+35	USH 10, LT	-	-	-	1
	101+04	USH 10, LT	-	-	-	1
	103+21	USH 10, LT	-	2	-	1
	106+62	USH 10, LT	-	2	-	1
	106+82	USH 10, LT	-	-	-	2
	107+47	USH 10, LT	-	1	-	1
	109+90	USH 10, LT	1	1	-	1
	118+38	USH 10, LT	-	1	-	1
	122+25	USH 10, LT	-	2	-	1
	125+73	USH 10, LT	-	2	-	1
	128+35	USH 10, LT	-	2	-	1
	131+16	USH 10, LT	-	2	-	1
	133+85	USH 10, LT	-	1	-	1
	135+68	USH 10, LT	-	-	-	1
	135+71	USH 10, LT	-	-	-	1
	136+33	USH 10, LT	-	1	-	-
	136+62	USH 10, LT	-	1	-	1
	141+69	USH 10, LT	-	1	-	2
	145+32	USH 10, LT	-	1	-	1
	148+45	USH 10, LT	-	1	1	1
	151+56	USH 10, LT	-	-	-	3
	9+61	MENASHA AVE, RT	-	1	-	-
		PROJECT TOTALS	2	23	1	32
PROJECT 4570-12-72						
	155+89	STH 42, LT	-	2	-	1
	159+95	STH 42, LT	-	2	-	1
	163+63	STH 42, LT	-	1	-	1
		PROJECT TOTALS	0	5	0	3
		TOTALS	2	28	1	35

* ADDITONAL QUANTITIES SHOWN ELSEWHERE

REMOVING VALVE, VALVE MANHOLES, AND VALVE BOXES

ID	STATION	LOCATION	SPV.0060.101 EA
PROJECT 1500-37-72			
	71+14	USH 10, LT	1
	72+04	USH 10, LT	1
	72+28	USH 10, LT	1
	72+34	USH 10, LT	1
	93+12	USH 10, LT	1
	93+62	USH 10, RT	1
	99+79	USH 10, LT	1
	99+79	USH 10, RT	1
	103+08	USH 10, RT	1
	103+22	USH 10, LT	2
	106+73	USH 10, LT	1
	106+88	USH 10, LT	1
	110+01	USH 10, LT	1
	110+01	USH 10, LT	1
	117+94	USH 10, LT	1
	118+37	USH 10, RT	1
	121+78	USH 10, LT	1
	122+14	USH 10, LT	1
	125+19	USH 10, LT	1
	125+56	USH 10, LT	1
	128+08	USH 10, LT	1
	128+22	USH 10, LT	1
	131+03	USH 10, LT	1
	131+04		1
	135+33	USH 10, LT	1
	135+85	USH 10, LT	1
	141+16	USH 10, LT	1
	141+95	USH 10, LT	1
	142+31	USH 10, LT	1
	148+42	USH 10, LT	1
	148+42	USH 10, RT	1
	151+16	USH 10, LT	1
	151+73	USH 10, LT	1
	PROJECT TOTAL		34
PROJECT 4570-12-72			
	156+48	STH 42, LT	1
	155+93	STH 42, LT	1
	160+24	STH 42, LT	1
	163+63	STH 42, LT	1
	PROJECT TOTAL		4
	TOTAL		38

REMOVE FIRE HYDRANTS

ID	STATION	LOCATION	SPV.0060.100 REMOVE FIRE HYDRANTS EA
PROJECT 1500-37-72			
	71+14	USH 10, LT	1
	99+48	USH 10, LT	1
	102+56	USH 10, LT	1
	122+24	USH 10, LT	1
	125+71	USH 10, RT	1
	128+35	USH 10, RT	1
	131+17	USH 10, RT	1
	133+92	USH 10, RT	1
	148+51	USH 10, RT	1
	PROJECT TOTAL		9
PROJECT 4570-12-72			
	156+52	STH 42, RT	1
	159+52	STH 42, RT	1
	PROJECT TOTAL		2
	TOTAL		11

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ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

WATER MAIN AND CONNECTIONS

STATION		TO STATION	LOCATION	SPV.0090.100 6-INCH * LF	SPV.0090.101 8-INCH LF	SPV.0090.102 10-INCH LF	SPV.0090.103 12-INCH LF	SPV.0090.104 24-INCH LF	SPV.0060.108 CONNECT TO EXISTING EA
PROJECT 1500-37-72									
70+00	-	72+04	USH 10	-	-	-	209	-	1
72+04	-	93+61	USH 10	-	-	-	592	-	2
93+61	-	99+35	USH 10	-	-	-	575	-	-
99+35	-	103+21	USH 10	-	-	-	375	-	-
103+21	-	106+62	USH 10	-	-	-	351	-	-
106+62	-	107+47	USH 10	-	-	-	86	-	-
107+47	-	109+90	USH 10	-	-	-	243	-	-
109+90	-	118+37	USH 10	-	-	-	848	-	-
118+37	-	122+25	USH 10	-	-	-	390	-	-
122+25	-	125+73	USH 10	-	-	-	335	-	-
125+73	-	128+35	USH 10	-	-	-	264	-	-
128+35	-	131+16	USH 10	-	-	-	282	-	-
131+16	-	133+85	USH 10	-	-	-	277	-	-
133+85	-	135+71	USH 10	-	-	-	186	-	-
135+63	-	135+68	N MENASHA AVE	-	18	-	-	-	1
135+71	-	136+33	USH 10	-	-	-	62	-	-
136+33	-	136+62	USH 10	-	-	-	29	-	-
136+62	-	141+69	USH 10	-	-	-	507	-	-
141+69	-	145+32	USH 10	-	-	-	363	-	-
145+32	-	148+45	USH 10	-	-	-	314	-	-
148+45	-	151+56	USH 10	-	-	-	320	-	-
151+56	-	152+25	USH 10	-	-	-	69	-	-
9+32	-	10+64	N 23RD ST	-	121	-	-	-	2
9+29	-	10+43	MENCHL DR	114	-	-	-	-	1
9+39	-	10+94	N 21ST ST	-	160	-	-	-	2
9+45	-	10+80	N 20TH ST	-	-	-	137	33	2
10+19	-	10+55	NB PARK ROW BLVD	-	36	-	-	-	1
9+51	-	10+59	ELM ST	73	-	43	-	-	2
9+64	-	10+49	N 18TH ST	-	85	-	-	-	2
9+28	-	10+97	N 17TH ST	-	178	-	-	-	2
9+27	-	10+80	N 16TH ST	-	155	-	-	-	2
9+38	-	10+95	N 15TH ST	-	160	-	-	-	2
9+35	-	10+80	N 14TH ST	-	148	-	-	-	2
9+30	-	10+49	N 13TH ST	-	122	-	-	-	1
9+61	-	10+45	N 12TH ST	-	84	-	-	-	1

WATER MAIN AND CONNECTIONS (CONTINUED)

STATION		TO STATION	LOCATION	SPV.0090.100 6-INCH * LF	SPV.0090.101 8-INCH LF	SPV.0090.102 10-INCH LF	SPV.0090.103 12-INCH LF	SPV.0090.104 24-INCH LF	SPV.0060.108 CONNECT TO EXISTING EA
PROJECT 1500-37-72									
8+93	-	10+66	S MENASHA AVE	-	199	-	-	-	2
9+59	-	11+25	N 11TH ST	-	81	-	87	-	2
9+71	-	10+45	N 10TH ST	-	74	-	-	-	1
9+05	-	10+46	N 9TH ST	-	292	78	-	-	2
8+55	-	11+45	N 8TH ST	-	-	-	294	-	2
PROJECT TOTALS				187	1913	121	7195	33	35
PROJECT 4570-12-72									
152+25	-	155+89	STH 42	-	-	-	363	-	-
155+89	-	159+95	STH 42	-	-	-	406	-	-
159+95	-	163+63	STH 42	-	-	-	369	-	-
163+63	-	164+15	STH 42	-	-	-	63	-	1
164+15		192+25	STH 42	-	-	-	154	-	-
9+43	-	10+99	LINCOLN BLVD	-	128	-	-	-	2
9+30	-	10+95	N 6TH ST	-	120	-	-	-	2
PROJECT TOTALS				0	248	0	1,355	0	5
TOTALS				187	2,161	121	8,550	33	40

* ADDITONAL QUANTITIES SHOWN ELSEWHERE

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

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WATER SERVICE

ID	STATION	LOCATION	SPV.0090.105 SERVICE PIPE 1 1/4-INCH LF	SPV.0060.107 CORPORATION STOP & CURB STOP AND BOX 1 1/4 -INCH EA	SPV.0060.109 CONNECT TO EXISTING EA	SPV.0165.100 2" TRENCH INSULATION SF
PROJECT 1500-37-72						
	94+10	USH 10	10	1	1	-
	94+15	USH 10	72	1	1	-
	94+50	USH 10	72	1	1	-
	94+70	USH 10	10	1	1	-
	95+20	USH 10	10	1	1	-
	95+73	USH 10	10	1	1	-
	96+20	USH 10	10	1	1	-
	96+63	USH 10	10	1	1	-
	97+13	USH 10	10	1	1	-
	97+60	USH 10	10	1	1	-
	98+65	USH 10	10	1	1	-
	99+15	USH 10	10	1	1	-
	99+55	USH 10	10	1	1	-
	99+87	USH 10	10	1	1	-
	95+67	USH 10	72	1	1	-
	96+17	USH 10	72	1	1	-
	96+53	USH 10	72	1	1	-
	97+15	USH 10	72	1	1	-
	97+65	USH 10	72	1	1	-
	98+15	USH 10	72	1	1	-
	98+53	USH 10	72	1	1	-
	101+00	USH 10	80	1	1	-
	101+60	USH 10	10	1	1	-
	102+08	USH 10	72	1	1	-
	103+78	USH 10	10	1	1	-
	104+35	USH 10	10	1	1	-
	101+18	USH 10	72	1	1	32
	104+90	USH 10	72	1	1	32
	108+58	USH 10	10	1	1	-
	108+80	USH 10	72	1	1	32
	109+20	USH 10	10	1	1	-
	111+24	USH 10	72	1	1	32
	111+75	USH 10	72	1	1	32
	112+30	USH 10	72	1	1	32
	112+82	USH 10	72	1	1	32
	113+35	USH 10	72	1	1	32
	113+95	USH 10	72	1	1	32
	114+50	USH 10	72	1	1	32
	115+50	USH 10	72	1	1	32
	116+06	USH 10	72	1	1	32
	116+58	USH 10	72	1	1	32
	117+24	USH 10	72	1	1	32
	119+46	USH 10	10	1	1	-
	120+03	USH 10	10	1	1	-
	120+48	USH 10	10	1	1	-

WATER SERVICE (CONTINUED)

ID	STATION	LOCATION	SPV.0090.105 SERVICE PIPE 1 1/4-INCH LF	SPV.0060.107 CORPORATION STOP & CURB STOP AND BOX EA	SPV.0060.109 CONNECT TO EXISTING EA	SPV.0165.100 2" TRENCH INSULATION SF
PROJECT 1500-37-72						
	121+05	USH 10, LT	10	1	1	-
	123+14	USH 10, LT	10	1	1	-
	123+60	USH 10, LT	10	1	1	-
	124+02	USH 10, LT	10	1	1	-
	124+48	USH 10, LT	10	1	1	-
	124+90	USH 10, LT	10	1	1	-
	119+95	USH 10, RT	72	1	1	32
	120+48	USH 10, RT	72	1	1	32
	120+98	USH 10, RT	72	1	1	32
	121+54	USH 10, RT	72	1	1	32
	122+63	USH 10, RT	72	1	1	32
	123+14	USH 10, RT	72	1	1	32
	123+42	USH 10, RT	72	1	1	32
	124+03	USH 10, RT	72	1	1	32
	124+46	USH 10, RT	72	1	1	32
	126+06	USH 10, LT	10	1	1	-
	126+60	USH 10, LT	10	1	1	-
	127+10	USH 10, LT	10	1	1	-
	126+07	USH 10, RT	72	1	1	32
	126+57	USH 10, RT	72	1	1	32
	127+10	USH 10, RT	72	1	1	32
	127+58	USH 10, RT	72	1	1	32
	130+38	USH 10, RT	72	1	1	32
	132+16	USH 10, RT	72	1	1	32
	132+70	USH 10, RT	72	1	1	32
	134+87	USH 10, RT	72	1	1	32
	135+54	USH 10, RT	72	1	1	32
	137+17	USH 10, LT	10	1	1	-
	137+93	USH 10, LT	10	1	1	-
	138+08	USH 10, LT	10	1	1	-
	138+68	USH 10, LT	10	1	1	-
	139+40	USH 10, LT	10	1	1	-
	139+95	USH 10, LT	10	1	1	-
	138+85	USH 10, RT	72	1	1	32
	143+10	USH 10, RT	72	1	1	32
	143+60	USH 10, RT	72	1	1	32
	144+62	USH 10, RT	72	1	1	32
	11+98NN	N 9TH ST, RT	10	1	1	-
	12+40NN	N 9TH ST, RT	10	1	1	-
	149+11	USH 10, LT	20	1	1	-
	149+68	USH 10, LT	20	1	1	-
	149+73	USH 10, RT	62	1	1	-
PROJECT TOTALS			3,864	87	87	1,152

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

WATER SERVICE (CONTINUED)

ID	STATION	LOCATION	SPV.0090.105 SERVICE PIPE 1 1/4-INCH LF	SPV.0060.107 CORPORATION STOP & CURB STOP AND BOX EA	SPV.0060.109 CONNECT TO EXISTING EA	SPV.0165.100 2" TRENCH INSULATION SF
PROJECT 4570-12-72						
	152+68	STH 42, LT	8	1	1	-
	153+74	STH 42, LT	8	1	1	-
	154+72	STH 42, LT	8	1	1	-
	153+10	STH 42, RT	72	1	1	-
	154+11	STH 42, RT	72	1	1	32
	158+20	STH 42, LT	8	1	1	-
	159+18	STH 42, LT	8	1	1	-
	157+70	STH 42, RT	72	1	1	32
	158+21	STH 42, RT	72	1	1	32
	162+01	STH 42, LT	8	1	1	-
	161+09	STH 42, RT	72	1	1	32
	162+10	STH 42, RT	72	1	1	32
	162+62	STH 42, RT	72	1	1	32
	PROJECT TOTALS		552	13	13	192
	TOTALS		4,416	100	100	1,344

WATER SERVICE

ID	STATION	LOCATION	SPV.0090.106 SERVICE PIPE 1 - INCH LF	SPV.0060.112 CORPORATION STOP & CURB STOP AND BOX 1-INCH EA	COMMENTS
PROJECT 1500-37-72					
	UNDISTRIBUTED	USH 10	500	10	ONLY TO BE USED WITH MPU APPROVAL
	PROJECT TOTALS		500	10	
PROJECT 4570-12-72					
	UNDISTRIBUTED	STH 42	200	5	ONLY TO BE USED WITH MPU APPROVAL
	PROJECT TOTALS		200	5	
	TOTALS		700	15	

FIRE HYDRANTS, LEAD, AND VALVE

ID	STATION	LOCATION	SPV.0090.100 WATER MAIN 6-INCH * LF	SPV.0060.106 FIRE HYDRANT EA	SPV.0060.102 GATE VALVE AND BOX 6-INCH * EA
PROJECT 1500-37-72					
	70+14	USH 10, LT	7	1	1
	99+92	USH 10, LT	11	1	1
	103+81	USH 10, LT	9	1	1
	115+26	USH 10, LT	11	1	1
	122+48	USH 10, LT	12	1	1
	152+04	USH 10, LT	12	1	1
	9+53	MENASHA, RT	7	1	1
	9+42	N 13TH, RT	9	1	1
	9+52	N 14TH, RT	9	1	1
	9+53	N 15TH, RT	11	1	1
	9+43	N 16TH, RT	11	1	1
	9+52	N 9TH, RT	11	1	1
	PROJECT TOTALS		120	12	12
PROJECT 4570-12-72					
	160+94	WALDO	9	1	1
	9+50	LINCOLN BLVD, RT	14	1	1
	PROJECT TOTALS		23	2	2
	TOTALS		143	14	14

* ADDITONAL QUANTITIES SHOWN ELSEWHERE

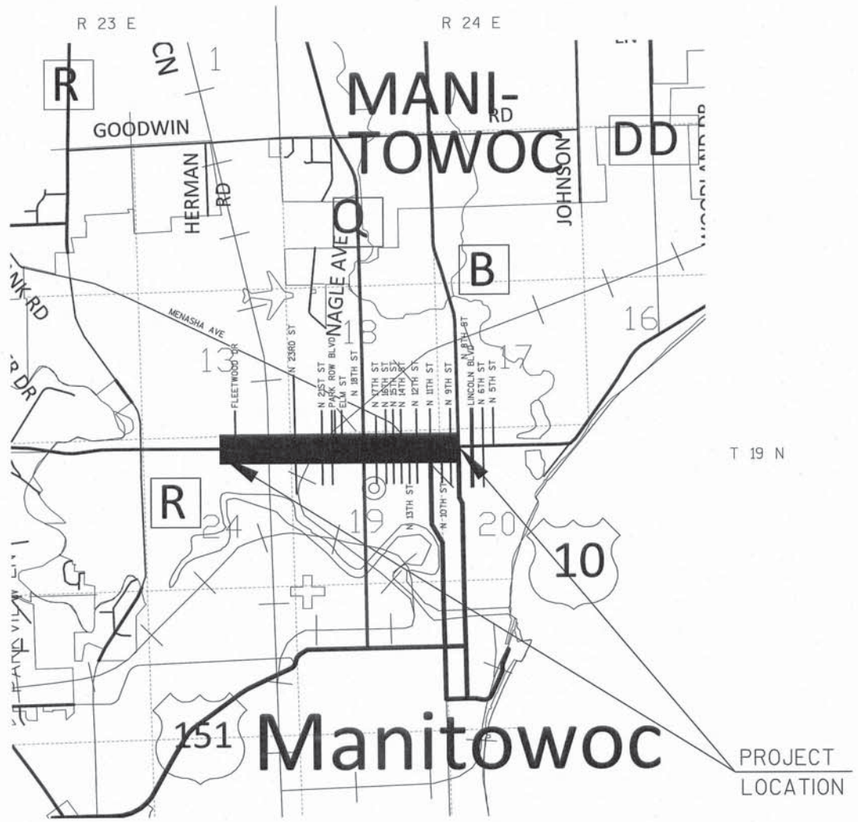
WATER VALVE AND CURB STOP ADJUSTMENTS

STATION	TO	STATION	LOCATION	SPV.0060.110 ADJUSTING WATER VALVE BOX LF	SPV.0060.111 ADJUSTING WATER SERVICE CURB STOP LF
PROJECT 4570-12-72					
152+25	-	194+90	STH 42	7	11
TOTALS				7	11

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE STATED

DOC# 1172800

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
1500-37-21
WALDO BLVD, CITY OF MANITOWOC
CTH R - 8TH STREET
USH 10
MANITOWOC COUNTY



CONVENTIONAL SYMBOLS

- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- NEW REFERENCE LINE
- NEW R/W LINE
- EXISTING R/W OR HE LINE
- PROPERTY LINE
- LOT, TIE & OTHER MINOR LINES
- SLOPE INTERCEPT
- CORPORATE LIMITS
- UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
- NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
- TEMPORARY LIMITED EASEMENT AREA
- EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
- TRANSMISSION STRUCTURES
- BUILDING — TO BE REMOVED
- BRIDGE
- SECTION CORNER SYMBOL
- SECTION CORNER MONUMENT
- GEODETIC SURVEY MONUMENT
- SIXTEENTH CORNER MONUMENT
- SIGN
- R/W MONUMENT (TO BE SET)
- NON-MONUMENTED R/W POINT
- FOUND IRON PIN (1-INCH UNLESS NOTED) IP
- OFF-PREMISE SIGN
- ELECTRIC POLE
- TELEPHONE POLE
- PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)

	COMPENSABLE	NON-COMPENSABLE

- ACCESS RESTRICTED BY ACQUISITION
- NO ACCESS (BY STATUTORY AUTHORITY)
- ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
- NO ACCESS (NEW HIGHWAY)
- PARCEL NUMBER (25) — UTILITY NUMBER (40)
- PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC	PROPERTY LINE	PL
AHEAD	AH	RECORDED AS	100'
ALUMINUM	ALUM	REEL / IMAGE	R/I
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RESTICTIVE DEVELOPMENT EASEMENT	RDE
CENTERLINE	C/L	RIGHT	RT
CERTIFIED SURVEY MAP	CSM	RIGHT OF WAY	R/W
CONCRETE	CONC	SECTION	SEC
COUNTY	CO	SEPTIC VENT	SEPV
COUNTY TRUNK HIGHWAY	CTH	SQUARE FEET	SF
DISTANCE	DIST	STATE TRUNK HIGHWAY	STH
CORNER	COR	STATION	STA
DOCUMENT NUMBER	DOC	TELEPHONE PEDESTAL	TP
EASEMENT	EASE	TEMPORARY LIMITED EASEMENT	TLE
EXISTING	EX	TRANSPORTATION PROJECT PLAT	TPP
GAS VALVE	GV	UNITED STATES HIGHWAY	USH
GRID NORTH	GN	VOLUME	V
HIGHWAY EASEMENT	HE		
IDENTIFICATION	ID		
LAND CONTRACT	LC		
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY NUMBER	NGS NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		
POINT OF COMPOUND CURVE	PCC		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL UTILITY SYMBOLS

- WATER — W
- GAS — G
- TELEPHONE — T
- OVERHEAD TRANSMISSION LINES — OH
- ELECTRIC — E
- CABLE TELEVISION — TV
- FIBER OPTIC — FO
- SANITARY SEWER — SAN
- STORM SEWER — SS

LAYOUT SCALE 0 0.5 MI.

THE NOTES,CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 1500-37-21

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), MANITOWOC COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 1" X 24" IRON PIPE), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE USH 10 EASTBOUND CONSTRUCTION REFERENCE LINE.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.
EXCLUDED FROM THIS EASEMENT IS ANY LAND CURRENTLY OCCUPIED BY BUILDINGS.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

A HIGHWAY (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT OF WAY FOR USH 10 ESTABLISHED FROM PREVIOUS PROJECT 1474-1-71, 1474-2-71, 4991-00-03, AND FEDERAL AID PROJECTS 424-D AND 424-E.

EXISTING HIGHWAY RIGHT OF WAY FOR SIDE STREETS ESTABLISHED FROM SUBDIVISION PLATS.

REGISTERS OFFICE MANITOWOC COUNTY, WI } SS
RECEIVED FOR RECORD
2016 SEPT 23 @ 11:32AM
Cabinet D Plats Jacket 78
PRESTON F. JONES-REGISTER

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1500-37-21 - 4.01
SHEET 2 OF 2
AMENDMENT NO:

FILE NAME : N:\C3D\41062900\RW\1500-37-21 040100 RW.DWG
APPRAISAL PLAT DATE :
PLOT DATE : 9/13/2016
PLOT BY :
PLOT NAME :
LAYOUT NAME - 1500-37-21 040100 RW - TPP TITLE 34X22

Doc# 1172800

TRANSPORTATION PROJECT PLAT NO: 1500-37-21 - 4.01

PART OF GOVERNMENT LOT 2, SECTION 24, TOWNSHIP 19 NORTH, RANGE 23 EAST, CITY OF MANITOWOC, MANITOWOC COUNTY, WISCONSIN.

RELOCATION ORDER USH 10, CTH R-8TH STREET, CITY OF MANITOWOC

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF MANITOWOC DEEM IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF MANITOWOC HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF MANITOWOC, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	NEW R/W SF	TOTAL R/W SF
1	HAROLD K. SALZBERG AND CHERILYN C. STEWART	FEE	4001	4001
2	CHRISTOPHER C. AND CHRISTINE C. ALLIE	FEE	4199	4199

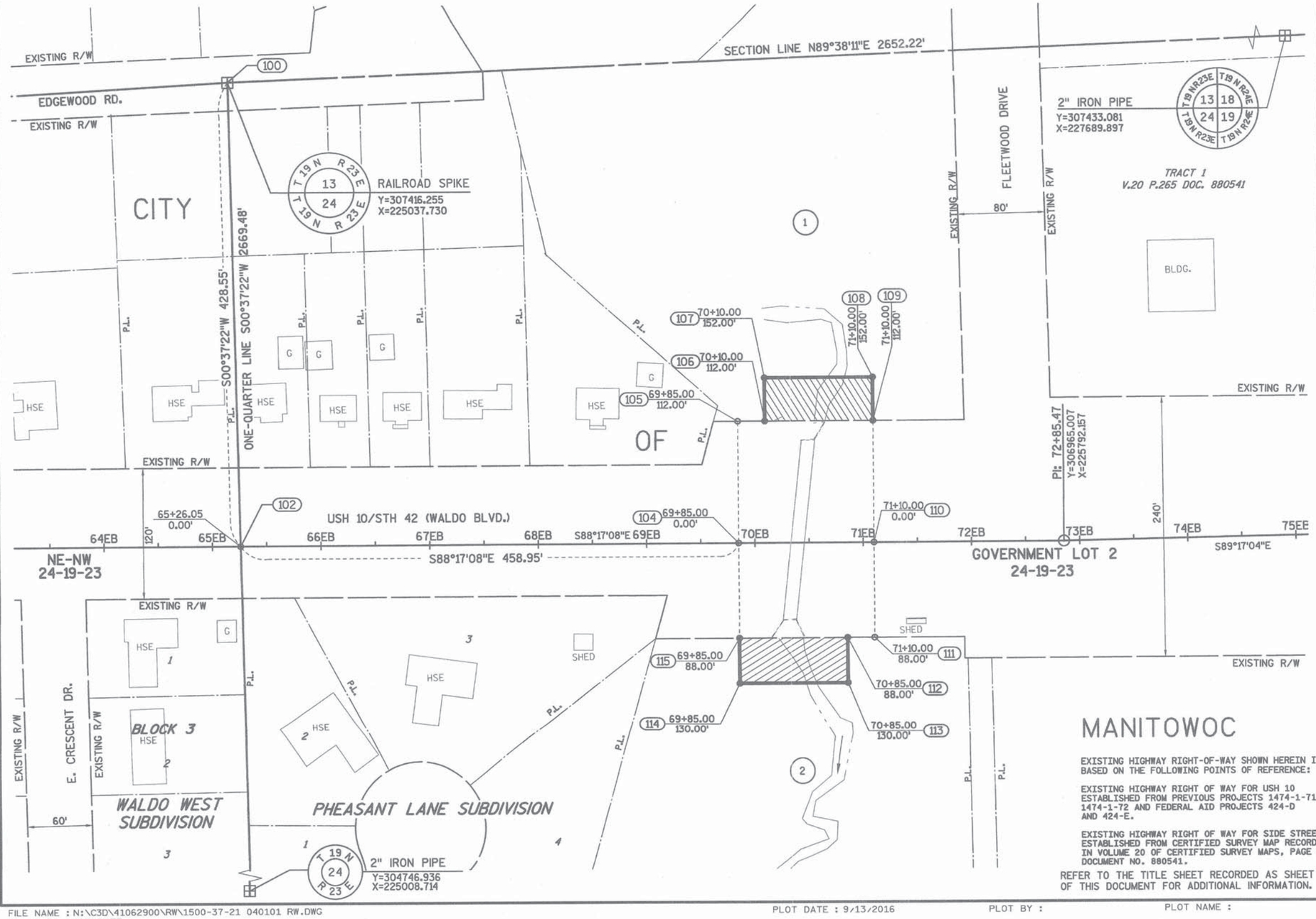
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE CITY.

GN

SCALE, FEET 0 50' 100'

REGISTERS OFFICE
MANITOWOC COUNTY, WI } ss
RECEIVED FOR RECORD
2016 SEPT 23 @ 11:32AM
Cabinet D Plats Packet 78
PRESTON F. JONES-REGISTER

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1500-37-21-4.01
AMENDMENT NO:___
SHEET 1 OF 2



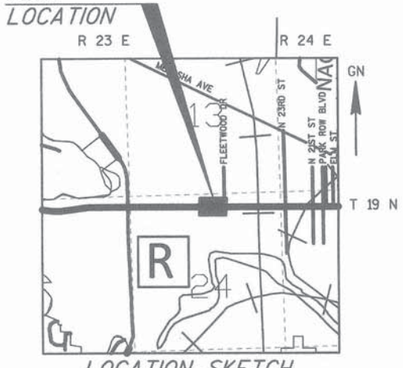
R/W POINT TABLE

POINT	Y COORDS	X COORDS
100	307416.255	225037.730
102	306987.728	225033.072
104	306973.997	225491.819
105	307085.939	225495.170
106	307085.191	225520.159
107	307125.180	225521.356
108	307122.189	225621.311
109	307082.199	225620.114
110	306970.257	225616.763
111	306882.288	225614.130
112	306883.036	225589.141
113	306841.063	225587.885
114	306844.055	225487.930
115	306886.028	225489.186

R/W COURSE TABLE

COURSE	BEARING	DISTANCE
104-105	N01°42'52"E	112.00'
105-106	S88°17'08"E	25.00'
106-107	N01°42'52"E	40.00'
107-108	S88°17'08"E	100.00'
108-109	S01°42'52"W	40.00'
109-110	S01°42'52"W	112.00'
110-111	S01°42'52"W	88.00'
111-112	N88°17'07"W	25.00'
112-113	S01°42'52"W	42.00'
113-114	N88°17'08"W	100.00'
114-115	N01°42'52"E	42.00'
115-104	N01°42'52"E	88.00'

PLAT LOCATION



LOCATION SKETCH
NOT TO SCALE

MANITOWOC

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT OF WAY FOR USH 10 ESTABLISHED FROM PREVIOUS PROJECTS 1474-1-71 AND 1474-1-72 AND FEDERAL AID PROJECTS 424-D AND 424-E.

EXISTING HIGHWAY RIGHT OF WAY FOR SIDE STREET ESTABLISHED FROM CERTIFIED SURVEY MAP RECORDED IN VOLUME 20 OF CERTIFIED SURVEY MAPS, PAGE 265, DOCUMENT NO. 880541.

REFER TO THE TITLE SHEET RECORDED AS SHEET 2 OF 2 OF THIS DOCUMENT FOR ADDITIONAL INFORMATION.

AYRES ASSOCIATES

I, JAMES R. CAPPEART PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF CITY OF MANITOWOC, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: James Cappeart DATE: 9/22/2016
PRINT NAME: JAMES R. CAPPEART
REGISTRATION NUMBER: S-3044

WISCONSIN James R. Cappeart S-3044 Green Bay Wis. LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF MANITOWOC

SIGNATURE: _____ DATE: 9-23-16
PRINT NAME: Daniel J Koski

FILE NAME : N:\C3D\41062900\RW\1500-37-21 040101 RW.DWG
APPRAISAL PLAT DATE : _____
PLOT DATE : 9/13/2016
PLOT BY :
PLOT NAME :
PLOT SCALE : ==========

DOC # 1173018

TRANSPORTATION PROJECT PLAT NO: 1500-37-21 - 4.02

PART OF LOTS 23, 24, AND 28, BLOCK 2 AND LOTS 1 AND 10, BLOCK 3 OF THE PLAT OF MENCHL'S SUBDIVISION NO. 2, PART OF LOTS 3 AND 4 OF THE SUBDIVISION OF THE NORTHWEST QUARTER AND PART OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER, ALL IN SECTION 19, TOWNSHIP 19 NORTH, RANGE 24 EAST, CITY OF MANITOWOC, MANITOWOC COUNTY, WISCONSIN.

RELOCATION ORDER USH 10, CTH R-8TH STREET, CITY OF MANITOWOC

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF MANITOWOC DEEM IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF MANITOWOC HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF MANITOWOC, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

CURVE TABLE					
CURVE	COURSE	LENGTH	RADIUS	LONG CHORD	LONG CHORD BEARING
C1	121-122	17.46'	1755.78'	17.46'	N30°58'39"E
C2	138-140	157.00'	1705.78'	156.94'	S34°47'50"W
C3	141-143	159.82'	1639.78'	159.76'	N36°19'04"E

R/W POINT TABLE		
POINT	Y COORDS	X COORDS
116	306979.371	227885.039
117	306969.224	227890.250
118	306854.233	227888.277
119	306859.084	227893.286
120	306844.129	228392.855
121	306828.712	228398.862
122	306843.681	228407.848
123	306953.631	228411.139
124	306946.226	228775.428
125	306936.526	228765.344

R/W POINT TABLE		
POINT	Y COORDS	X COORDS
126	306839.638	228760.132
127	306829.190	228775.013
128	306839.189	228775.125
129	306936.226	228775.339
130	306969.373	227885.253
131	306859.233	227888.288
138	306969.358	228554.206
140	306840.480	228464.643
141	306838.173	228541.705
143	306966.900	228636.326

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
116-130	S01°13'35"E	10.00'
130-131	S01°34'43"E	110.18'
131-118	N00°07'33"E	5.00'
118-119	N45°55'13"E	6.97'
119-120	S88°17'07"E	499.79'
120-121	S21°17'18"E	16.55'
C1	SEE CURVE TABLE	
122-123	N01°42'53"E	110.00'
123-117	N88°17'07"W	521.12'
117-116	N27°11'08"W	11.41'

R/W COURSE TABLE (HE)		
COURSE	BEARING	DISTANCE
C2	SEE CURVE TABLE	
140-141	S88°17'07"E	77.10'
C3	SEE CURVE TABLE	
143-138	N88°17'07"W	82.16'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
124-125	S46°06'36"W	13.99'
125-126	S03°04'46"W	97.03'
126-127	S54°55'36"E	18.18'
127-128	N00°38'37"E	10.00'
128-129	N00°07'36"E	97.04'
129-124	N00°30'20"E	10.00'

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	NEW R/W SF	TOTAL R/W SF	HIGHWAY EASEMENT SF	TLE SF
3	KURT D. ZIPPERER	FEE AND TLE	25	25	------	968
4	TAMMY S. SCHROEDER	FEE AND TLE	12	12	------	188
---	------	------	------	------	------	------
---	------	------	------	------	------	------
7	WELLNER II, LLC	TLE	------	------	------	272
8	CARRIE BETH FRANZ CONTRERAS	TLE	------	------	------	328
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---	------	------	------	------	------	------
19	ANNA T. KRUEGER	FEE AND TLE	114	114	------	349
20	RICHARD VANG	FEE AND TLE	50	50	------	1620
21	ROBERT H. AND MARY ANN V. ZOCH	TLE	------	------	------	557
22	TROY N. AND JULIE M. HUDY	TLE	------	------	------	644
23	MATTHEW B. KING	FEE AND TLE	75	75	------	821
111	WISCONSIN CENTRAL LTD.	H.E. AND TLE	------	------	10452	637

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE CITY.

REGISTERS OFFICE MANITOWOC COUNTY, WI } ss
RECEIVED FOR RECORD
2016 SEPT 29 @10:00AM
Cabinet D Plats Jacket 80
PRESTON F. JONES, REGISTER

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1500-37-21-4.02
AMENDMENT NO:____

2" IRON PIPE
Y=307433.081
X=227689.897

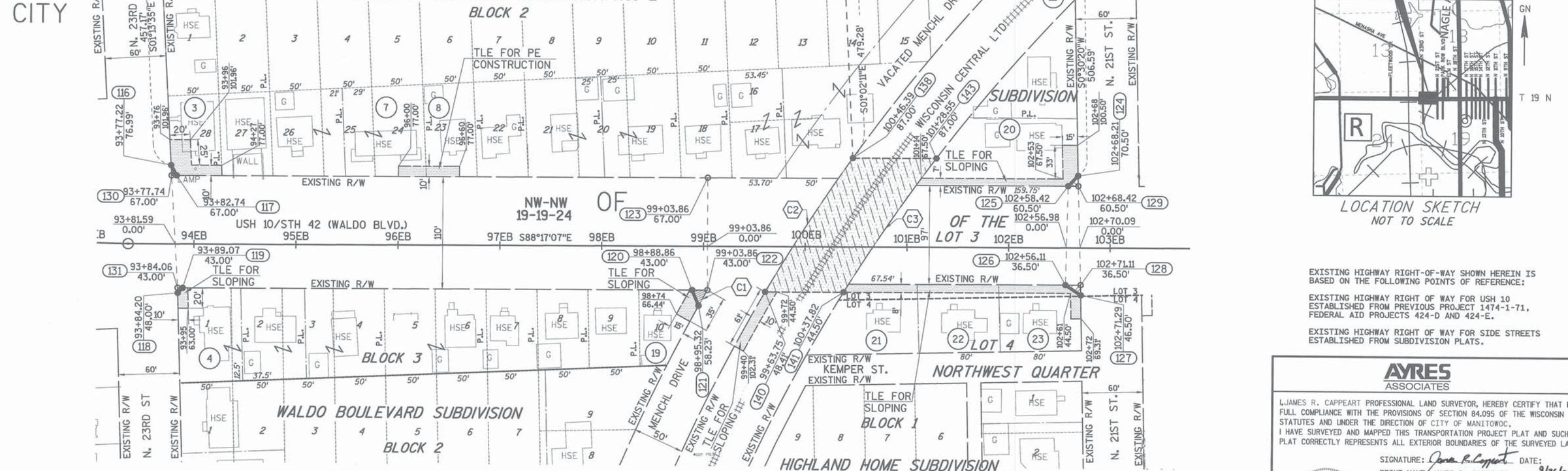
N88°57'49"E 185.39'

N88°57'49"E 670.39'

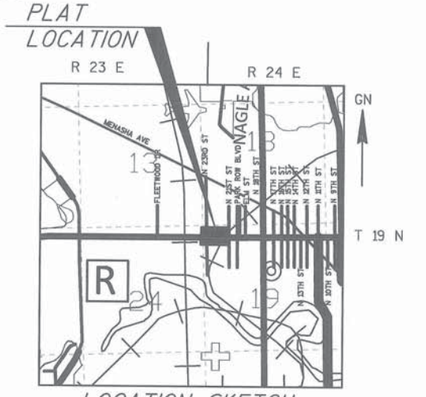
N88°57'49"E 234.40'

SECTION LINE N88°57'49"E 2647.06'

PK NAIL
Y=307480.961
X=230336.520



PLAT LOCATION



LOCATION SKETCH
NOT TO SCALE

GN
0 50 100
SCALE, FEET

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT OF WAY FOR USH 10 ESTABLISHED FROM PREVIOUS PROJECT 1474-1-71, FEDERAL AID PROJECTS 424-D AND 424-E.

EXISTING HIGHWAY RIGHT OF WAY FOR SIDE STREETS ESTABLISHED FROM SUBDIVISION PLATS.

REFER TO THE TITLE SHEET, RECORDED AS 2 OF 2 OF THIS DOCUMENT VOLUME 91172 OF TRANSPORTATION PROJECT PLATS, PAGE 800 AS DOCUMENT NO. 1172800 FOR ADDITIONAL INFORMATION.

AYRES ASSOCIATES

I, JAMES R. CAPPEART PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF CITY OF MANITOWOC, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: James R. Cappeart DATE: 9/26/2016
PRINT NAME: JAMES R. CAPPEART
REGISTRATION NUMBER: S-3044

WISCONSIN James R. Cappeart S-3044 Green Bay Wis. LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF MANITOWOC

SIGNATURE: _____ DATE:
PRINT NAME: DANIEL KOSKI 9-28-16

FILE NAME : N:\C3D\41062900\RW\1500-37-21 040102 RW.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : 9/27/2016 8:29 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : **********

DOC# 1173019

TRANSPORTATION PROJECT PLAT NO: 1500-37-21 - 4.03

PART OF LOTS 13, 14, 15, 16, 19 AND 20, BLOCK 2 OF CENTRAL PARK SUBDIVISION, PART OF LOTS 11, 12 AND 13, BLOCK 1 OF CENTRAL PARK SUBDIVISION, PART OF LOT 4 OF CENTRAL PARK SUBDIVISION NO. 2 AND PART OF LOTS 7, 8, 9, 10 AND 11 OF THE SUBDIVISION OF THE NORTHWEST QUARTER OF SECTION 19, TOWNSHIP 19 NORTH, RANGE 24 EAST, ALL IN SECTION 19, TOWNSHIP 19 NORTH, RANGE 24 EAST, CITY OF MANITOWOC, MANITOWOC COUNTY, WISCONSIN.

RELOCATION ORDER USH 10, CTH R-8TH STREET, CITY OF MANITOWOC

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF MANITOWOC DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF MANITOWOC HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF MANITOWOC, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	NEW R/W SF	TOTAL R/W SF	TLE SF
24	BURT R. AND KIMBERLY M. SILBERSACK	FEE AND TLE	50	50	694
25	DONALD L. AND JUDITH A. WOLLERSHEIM	TLE	------	------	367
26	JEFFERY P. YOUNG	TLE	------	------	358
27	MARK J. RAYMAKER AND JAMES M. MROTEK	FEE AND TLE	25	25	1165
28	INSPIRED ENDEAVORS LLC	TLE	------	------	198
29	ROSE MARIE KUBSCH	FEE AND TLE	25	25	1005
30	ROGER E. ZEAMER	FEE AND TLE	50	50	837
31	ANTHONY L. AND KIMBERLY M. ZUBA	FEE AND TLE	150	150	865
32	FREDERIC D. AND BARBARA L. HEIDERICH	FEE AND TLE	25	25	2205
---	------	------	------	------	------
34	WALDOPEN, LLC AND LMH WALDO BLVD, LLC	TLE	------	------	1814
35	CLYDE M. WEBBER III	TLE	------	------	827
36	ERIC AND SHARON INGMAN	TLE	------	------	1353
37	ROSEMARY A. KONITZER	TLE	------	------	549
38	KAYLA R. BICHLER	TLE	------	------	541
39	DAVID P. AND JOSEPH J. COPPENS	TLE	------	------	582

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE CITY.

GN

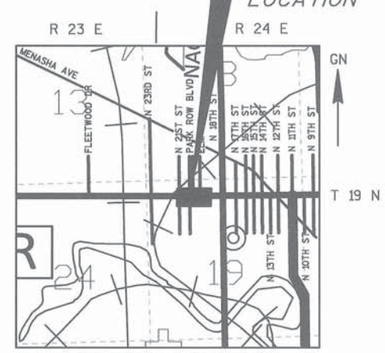
0 50 100

SCALE, FEET

REGISTERS OFFICE MANITOWOC COUNTY, WI } SS
RECEIVED FOR RECORD
2016 SEPT 29 @10:01AM
Cabinet D Plats Packet 80
PRESTON F. JONES, REGISTER

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1500-37-21-4.03
AMENDMENT NO:____

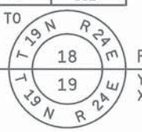
PLAT LOCATION



LOCATION SKETCH
NOT TO SCALE

2" IRON PIPE
Y=307433.081
X=227689.897

N88°57'49"E
1150.20'



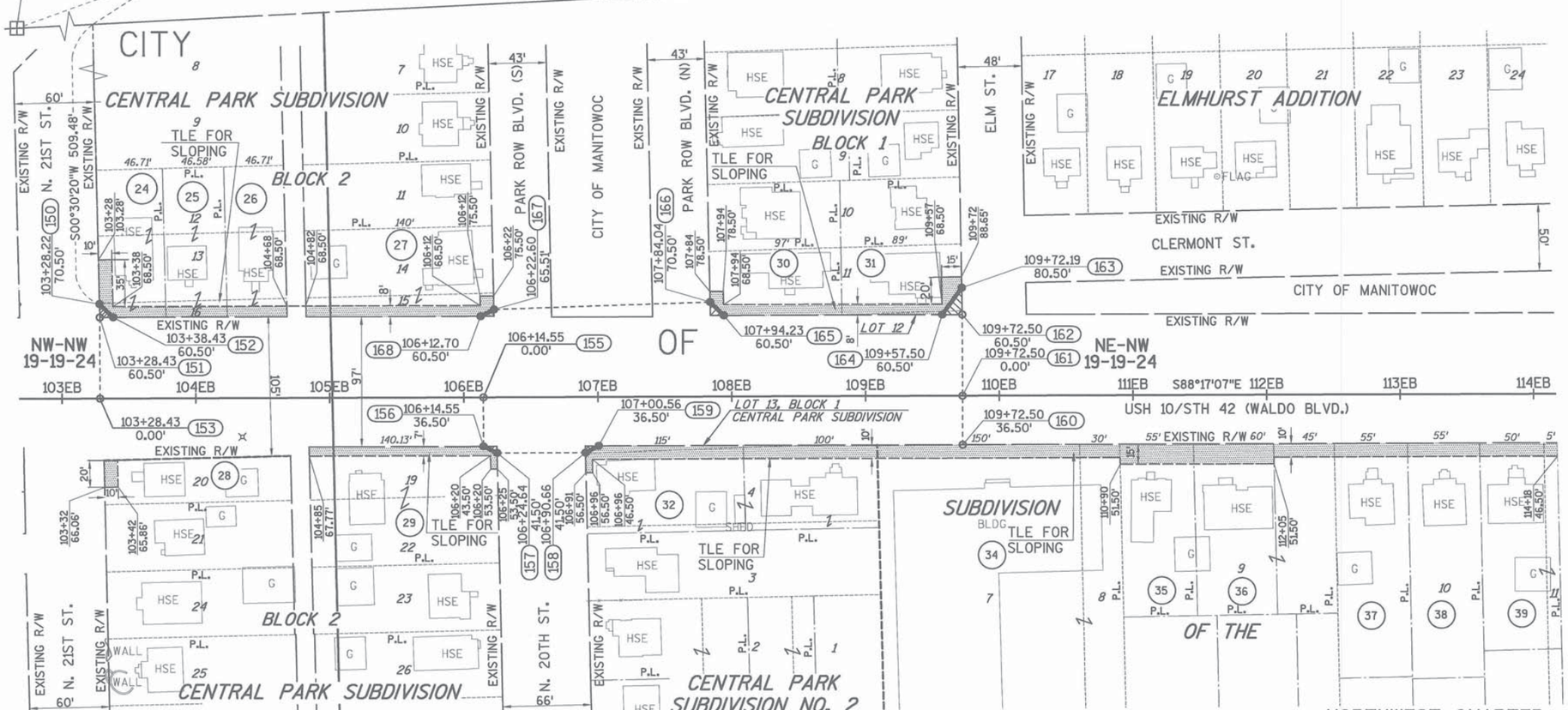
PK NAIL
Y=307480.961
X=230336.520

SECTION LINE N88°57'49"E 2647.06'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
150-152	S43°53'24"E	14.29'
152-168	S88°17'07"E	274.27'
168-167	N64°53'09"E	11.10'
167-166	N89°56'40"E	161.51'
166-165	S43°49'54"E	14.28'
165-164	S88°17'07"E	163.27'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
164-163	N38°01'22"E	24.82'
163-162	S00°50'18"W	20.00'
162-161	S01°42'53"W	60.50'
161-160	S01°42'53"W	36.50'
160-159	N88°17'07"W	271.94'
159-158	S64°57'04"W	11.09'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
158-157	N88°17'19"W	66.01'
157-156	N61°56'29"W	11.27'
156-155	N01°42'53"E	36.50'
155-153	N88°17'07"W	286.12'
153-151	N01°42'53"E	60.50'
151-150	N00°30'20"E	10.00'



R/W POINT TABLE		
POINT	Y COORDS	X COORDS
150	306944.430	228835.414
151	306934.431	228835.326
152	306934.132	228845.321
153	306873.958	228833.516
155	306865.397	229119.506
156	306828.913	229118.414
157	306823.614	229128.355
158	306821.643	229194.338
159	306826.340	229204.388

R/W POINT TABLE		
POINT	Y COORDS	X COORDS
160	306818.203	229476.201
161	306854.687	229477.293
162	306915.160	229479.103
163	306935.158	229479.396
164	306915.609	229464.110
165	306920.494	229300.915
166	306930.792	229291.029
167	306930.636	229129.517
168	306925.925	229119.467

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT OF WAY FOR USH 10 ESTABLISHED FROM PREVIOUS PROJECT 1474-1-71, FEDERAL AID PROJECTS 424-D AND 424-E.

EXISTING HIGHWAY RIGHT OF WAY FOR SIDE STREETS ESTABLISHED FROM SUBDIVISION PLATS.

REFER TO THE TITLE SHEET, RECORDED AS 2 OF 2 OF THIS DOCUMENT VOLUME 91172 OF TRANSPORTATION PROJECT PLATS, PAGE 800 AS DOCUMENT NO. 1172800 FOR ADDITIONAL INFORMATION.

AYRES ASSOCIATES

I, JAMES R. CAPPEART PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF CITY OF MANITOWOC, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN James R. Cappeart S-3044 Green Bay Wis. LAND SURVEYOR

SIGNATURE: James R. Cappeart DATE: 9/26/2016
PRINT NAME: JAMES R. CAPPEART
REGISTRATION NUMBER: S-3044

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF MANITOWOC

SIGNATURE: _____ DATE: 9-28-16
PRINT NAME: DANIEL KOSKI

FILE NAME : N:\C3D\41062900\RW\1500-37-21 040103 RW.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : 9/27/2016 8:32 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : **********

TRANSPORTATION PROJECT PLAT NO: 1500-37-21 - 4.04

PART OF LOTS 11 AND 12 OF THE SUBDIVISION OF THE NORTHWEST QUARTER OF SECTION 19, TOWNSHIP 19 NORTH, RANGE 24 EAST, AND PART OF LOTS 19, 20, 21, 22, 23 AND 24, BLOCK 5, LOTS 19, 20, 21, 22, 23 AND 24, BLOCK 6 OF WOODS PARK ADDITION NO. 2, LOTS 1, 2, 3, 4, 5 AND 6, BLOCK 4, AND LOTS 1, 2, 3, 4, 5 AND 6, BLOCK 3 OF WOODS PARK ADDITION, ALL IN SECTION 19, TOWNSHIP 19 NORTH, RANGE 24 EAST, CITY OF MANITOWOC, MANITOWOC COUNTY, WISCONSIN.

RELOCATION ORDER USH 10, CTH R-8TH STREET, CITY OF MANITOWOC

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY MANITOWOC DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF MANITOWOC HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF MANITOWOC, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT OF WAY FOR USH 10 ESTABLISHED FROM PREVIOUS PROJECTS 1474-1-71 AND 4991-0-03, FEDERAL AID PROJECTS 424-D AND 424-E.

EXISTING HIGHWAY RIGHT OF WAY FOR SIDE STREETS ESTABLISHED FROM SUBDIVISION PLATS.

PK NAIL
Y=307480.961
X=230336.520

2" IRON PIPE
Y=307433.081
X=227689.897

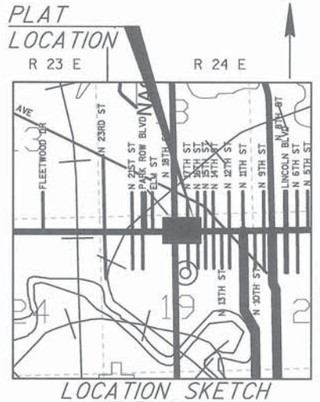
R/W POINT TABLE		
POINT	Y COORDS	X COORDS
181	306910.165	230329.605
182	306909.765	230362.602
183	306889.571	230377.358
184	306885.649	230675.019
185	306893.543	230683.097
186	306892.753	230743.092
187	306884.648	230751.013
188	306881.111	231019.611
189	306888.019	231026.679

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	NEW R/W SF	TOTAL R/W SF	TLE SF
40	DOROTHY T. HOLSCHBACH	TLE	------	------	784
41	KEVIN J. DROSSART AND MICHELLE A. DEAN	TLE	------	------	650
42	RICHARD J. AND MARY LYNN J. RUEHR	TLE	------	------	605
43	RANDALL G. KNAPP	TLE	------	------	502
44	JAYSON LEFKY	TLE	------	------	1614
45	JULIE A. BERNHARDT	FEE AND TLE	150	150	583
46	CATHY A. GARDNER	TLE	------	------	532
47	MARILYN R. NELSON	TLE	------	------	532
48	RUTH A. WEDEMAN LIVING TRUST	TLE	------	------	532
49	JEFFREY J. AND MELISSA A. SCHMITZ	TLE	------	------	532
50	JULEE AND YING LYDIA V. THAO	FEE AND TLE	32	32	714
51	LAURA I. KRUEGER	FEE AND TLE	91	91	1401
52	RONALD AND DEBRA SKARVAN-HORNBURG	TLE	------	------	639
53	COLE AND SAMANTHA SKARVAN	TLE	------	------	373
54	PAULA BIERKE	TLE	------	------	373
55	MICHAEL T. AND JACLYN M. BETHKE, ET AL	FEE AND TLE	24	24	656
56	NHIA YANG AND MAI YIA XIONG	FEE AND TLE	32	32	530
57	DEBRA D. DUENO	TLE	------	------	364
58	VICTORIA K. LEIDER	TLE	------	------	362
59	MACE T. AND LAURA J. MURRAY	TLE	------	------	566
60	KENNETH E. AND DIANE M. BASKEN	FEE AND TLE	24	24	507
61	KENNETH B. STOKES	FEE AND TLE	39	39	872
62	DANIEL L. AND MARGARET A. JUCHNIEWICH	TLE	------	------	803
63	JAMES A. AND JOANNE A. OLM	TLE	------	------	662
64	RYAN E. AND ANDRA L. REVAK	TLE	------	------	331
65	JENNIFER G. WITCZAK	FEE AND TLE	35	35	443

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE CITY.

PLAT LOCATION



LOCATION SKETCH
NOT TO SCALE

PK NAIL
Y=307400.592
X=233003.221

REGISTERS OFFICE
MANITOWOC COUNTY, WI
RECEIVED FOR RECORD
2016 SEPT 29 @10:02AM
Cabinet D Plats Jacket 81
PRESTON F. JONES, REGISTER

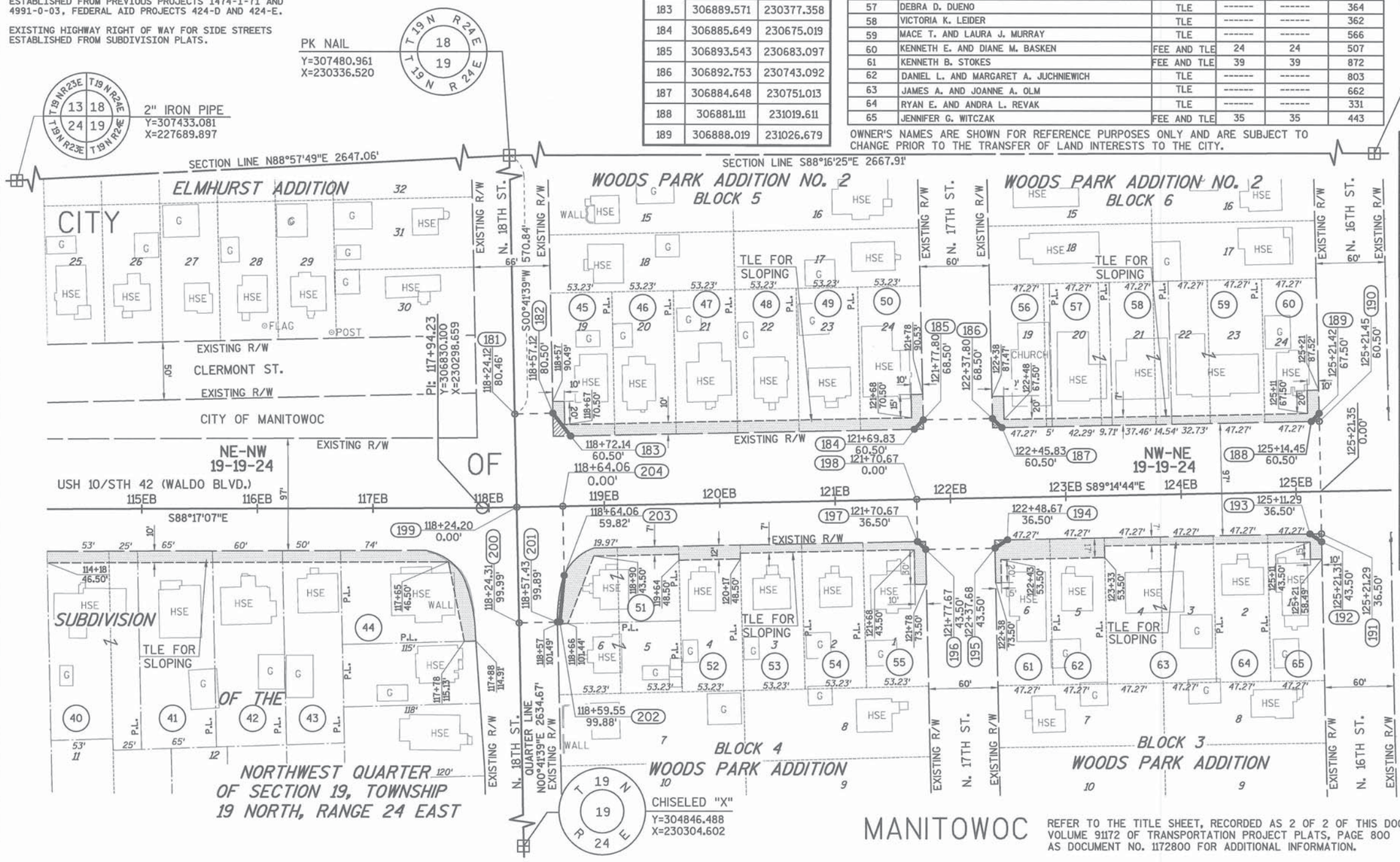
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1500-37-21-4.04
AMENDMENT NO:____

0 50 100
SCALE, FEET

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
203-202	S07°10'31"W	40.31'
202-201	N89°24'26"W	2.13'
201-200	N89°24'26"W	33.12'
200-199	N00°41'39"E	99.99'
199-181	N00°41'39"E	80.46'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
181-182	S89°18'21"E	33.00'
182-183	S36°09'21"E	25.01'
183-184	S89°14'44"E	297.69'
184-185	N45°39'25"E	11.29'
185-186	S89°14'44"E	60.00'
186-187	S44°20'35"E	11.33'
187-188	S89°14'44"E	268.62'
188-189	N45°39'23"E	9.88'
189-190	S00°45'16"W	7.00'
190-191	S00°49'51"W	97.00'
191-192	S00°40'06"W	7.00'
192-193	N54°16'55"W	12.22'
193-194	N89°14'44"W	262.62'
194-195	S58°15'30"W	13.03'
195-196	N89°14'46"W	60.00'
196-197	N44°17'12"W	9.91'
197-198	N00°45'16"E	36.50'
198-204	N89°14'44"W	306.61'
204-203	S00°45'16"W	59.82'

R/W POINT TABLE		
POINT	Y COORDS	X COORDS
190	306881.019	231026.587
191	306784.030	231025.180
192	306777.030	231025.099
193	306784.161	231015.181
194	306787.619	230752.584
195	306780.765	230741.503
196	306781.554	230681.508
197	306788.646	230674.590
199	306829.706	230328.630
200	306729.727	230327.419
201	306729.386	230360.536
202	306729.365	230362.662
203	306769.362	230367.698
204	306829.181	230368.485



MANITOWOC

REFER TO THE TITLE SHEET, RECORDED AS 2 OF 2 OF THIS DOCUMENT VOLUME 91172 OF TRANSPORTATION PROJECT PLATS, PAGE 800 AS DOCUMENT NO. 1172800 FOR ADDITIONAL INFORMATION.

AYRES ASSOCIATES

I, JAMES R. CAPPEART PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF CITY OF MANITOWOC, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN James R Cappeart S-3044 Green Bay Wis. LAND SURVEYOR

SIGNATURE: _____ DATE: 9/26/2016
PRINT NAME: JAMES R. CAPPEART
REGISTRATION NUMBER: S-3044

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF MANITOWOC

SIGNATURE: _____ DATE: 9-28-16
PRINT NAME: DANIEL KOSKI

FILE NAME : N:\C3D\41062900\RW\1500-37-21 040104 RW.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : 9/26/2016 7:45 AM
PLOT BY : SOUFAL, KEVIN
PLOT NAME :
PLOT SCALE : ==========

DOC # 1173021

TRANSPORTATION PROJECT PLAT NO: 1500-37-21 - 4.05

PART OF LOTS 19, 20, 21, AND 22, BLOCK 7, LOTS 19, 20, 21 AND 22, BLOCK 8 AND LOTS 9, 10, 11, 12, 13 AND 14, BLOCK 9 OF WOODS PARK ADDITION NO. 2, PART OF LOTS 1, 2, 3, AND 4, BLOCK 2, LOTS 1, 2, 3 AND 4 BLOCK 1 AND BLOCK K OF WOODS PARK ADDITION, PART OF LOTS 1, 2 AND 13, BLOCK 3 AND LOTS 1, 2, 3, 4 AND 6, BLOCK 2 OF MENCHL'S SUBDIVISION AND PART OF LOT 5 OF ALLEN'S SUBDIVISION OF THE NORTH 1/2 OF THE NORTHEAST 1/4, ALL IN SECTION 19, TOWNSHIP 19 NORTH, RANGE 24 EAST, CITY OF MANITOWOC, MANITOWOC COUNTY, WISCONSIN.

RELOCATION ORDER USH 10, CTH R-8TH STREET, CITY OF MANITOWOC

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY MANITOWOC DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF MANITOWOC HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF MANITOWOC, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT OF WAY FOR USH 10 ESTABLISHED FROM PREVIOUS PROJECT 1474-1-71, FEDERAL AID PROJECTS 424-D AND 424-E.

EXISTING HIGHWAY RIGHT OF WAY FOR SIDE STREETS ESTABLISHED FROM SUBDIVISION PLATS.

R/W POINT TABLE		
POINT	Y COORDS	X COORDS
220	306890.229	231086.704
221	306880.229	231086.606
222	306880.097	231096.605
223	306877.644	231282.894
224	306884.552	231289.969
225	306884.762	231349.975
226	306876.657	231357.888
227	306874.015	231558.519
228	306885.856	231570.658
229	306898.065	231630.805
230	306898.025	231633.805
231	306886.026	231633.665
232	306872.869	231645.511
233	306869.312	231915.621

R/W POINT TABLE		
POINT	Y COORDS	X COORDS
234	306869.519	231926.285
235	306886.308	231939.733
236	306933.361	231925.506
237	306942.393	231921.335
238	306992.303	231981.281
239	306867.133	232085.496
240	306866.757	232116.894
241	306871.660	232124.955
242	306866.661	232124.895
243	306806.165	232124.170
244	306807.222	232035.953
245	306808.783	231917.420
246	306772.286	231916.939
247	306765.405	231907.864

R/W POINT TABLE		
POINT	Y COORDS	X COORDS
248	306767.195	231847.880
249	306773.327	231837.946
250	306775.955	231638.375
251	306769.073	231629.294
252	306769.864	231569.299
253	306776.995	231559.382
254	306779.636	231358.839
255	306772.768	231348.765
256	306773.558	231288.770
257	306780.690	231278.763
258	306783.108	231095.174
259	306776.240	231085.093
260	306783.240	231085.175

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
220-222	S44°20'35"E	14.17'
222-223	S89°14'44"E	186.31'
223-224	N45°41'13"E	9.89'
224-225	N89°47'58"E	60.01'
225-226	S44°18'47"E	11.33'
226-227	S89°14'44"E	200.65'
227-228	N45°42'46"E	16.96'
228-229	N78°31'32"E	61.37'
229-230	S89°14'28"E	3.00'
230-231	S00°40'17"W	12.00'
231-232	S42°00'01"E	17.70'
232-233	S89°14'44"E	270.13'
233-234	N88°53'30"E	10.67'
C4	SEE CURVE TABLE	
C5	SEE CURVE TABLE	
236-237	N24°47'14"W	9.95'
237-238	N50°13'11"E	78.00'
238-239	S39°46'49"E	162.88'
239-240	S89°18'49"E	31.40'
240-241	N58°41'19"E	9.44'
241-242	S00°41'47"W	5.00'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
242-243	S00°41'12"W	60.50'
243-244	N89°18'48"W	88.22'
244-245	N89°14'44"W	118.54'
245-246	S00°45'16"W	36.50'
246-247	S52°49'49"W	11.39'
247-248	N88°17'27"W	60.01'
248-249	N58°18'59"W	11.67'
249-250	N89°14'44"W	199.59'
250-251	S52°50'37"W	11.39'
251-252	N89°14'40"W	60.00'
252-253	N54°16'52"W	12.21'
253-254	N89°14'44"W	200.56'
254-255	S55°43'01"W	12.19'
255-256	N89°14'43"W	60.00'
256-257	N54°31'16"W	12.29'
257-258	N89°14'44"W	183.60'
258-259	S55°44'03"W	12.20'
259-260	N00°40'06"E	7.00'
260-221	N00°50'43"E	97.00'
221-220	N00°33'34"E	10.00'

SCHEDULE OF LANDS & INTERESTS REQUIRED

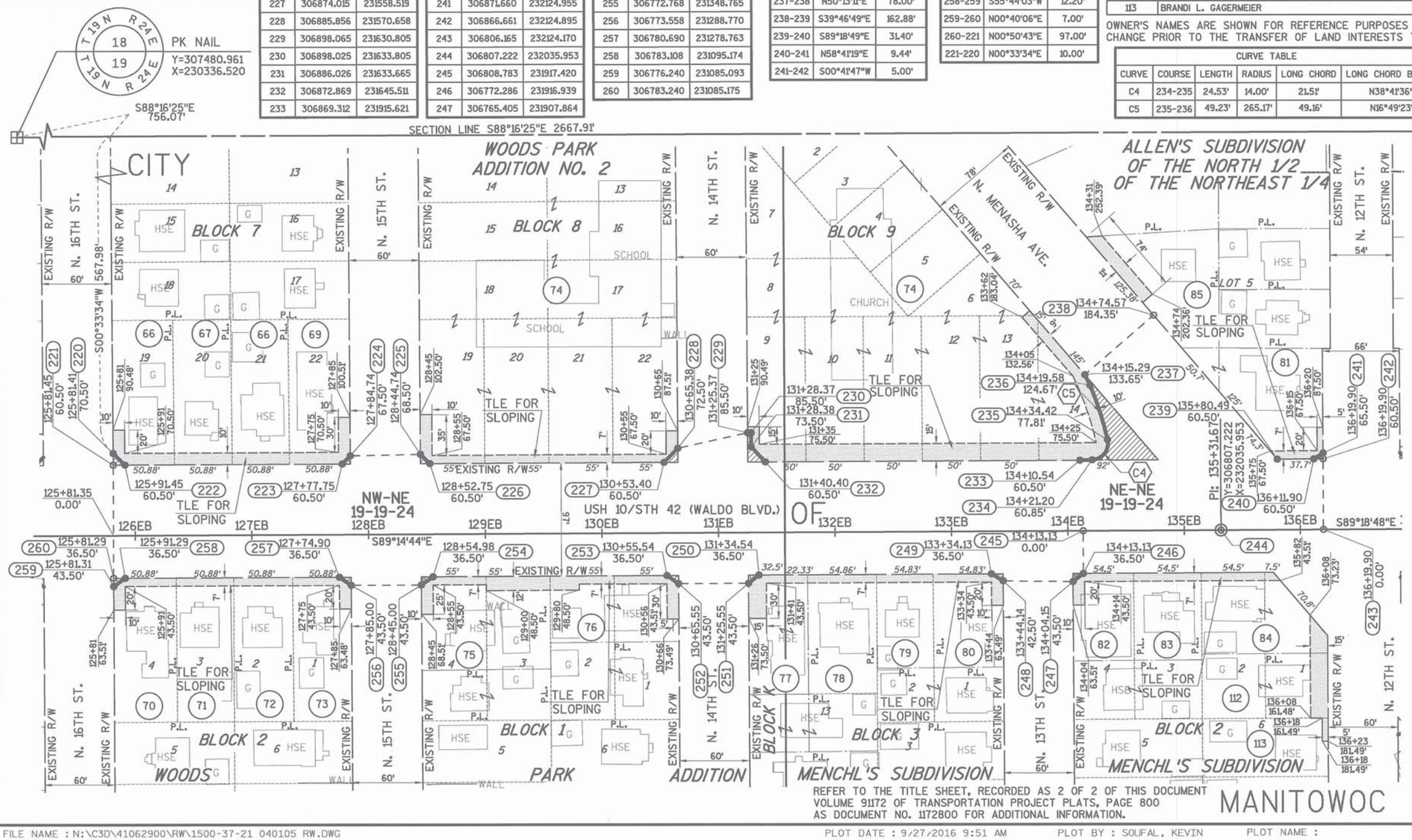
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	NEW R/W SF	TOTAL R/W SF	TLE SF
66	JAVIER AND AURORA SAUCEDO	FEE AND TLE	50	50	1167
67	DAVID A. GILBERT	TLE	------	------	496
---	------	------	------	------	------
69	ROBERT B. AND PATRICIA E. CLARK	FEE AND TLE	25	25	796
70	DENNIS P. AND KATHLEEN A. RYAN	FEE AND TLE	35	35	541
71	YOLANDA F. SHROEDER	TLE	------	------	346
72	THOMAS R. PORTER	TLE	------	------	353
73	BARBARA J. RISTOW ROCKLEWITZ	FEE AND TLE	35	35	517
74	ST. FRANCIS OF ASSISSI	FEE AND TLE	1652	1652	7783
75	WELCOME HOME OF WI LLC	FEE AND TLE	35	35	1262
76	MARILYN M. NEUMEYER	FEE AND TLE	35	35	1162
77	LISA M. SMITH	FEE AND TLE	32	32	780
78	DARLENE E. PATYNSKI	TLE	------	------	415
79	ANDREW TRESTIK	TLE	------	------	339
80	ELAINE M. SCHROEDER	FEE AND TLE	30	30	591
81	THELMA I. AND TRAVIS ERTMAN	FEE AND TLE	20	20	377
82	JANICE JOHNSON	FEE AND TLE	32	32	533
83	JENNIFER HILDEBRANDT	TLE	------	------	408
84	DONNA L. ELLERT	TLE	------	------	812
85	GROELLE INVESTMENTS LLC	TLE	------	------	770
112	ANASTASIA M. CIHLAR	TLE	------	------	835
113	BRANDI L. GAGERMEIER	TLE	------	------	100

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE CITY.

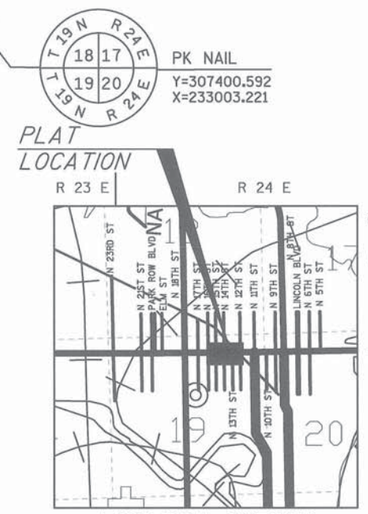
CURVE TABLE					
CURVE	COURSE	LENGTH	RADIUS	LONG CHORD	LONG CHORD BEARING
C4	234-235	24.53'	14.00'	21.51'	N38°41'36"E
C5	235-236	49.23'	265.17'	49.16'	N16°49'23"W

REGISTERS OFFICE
MANITOWOC COUNTY, WI } SS
RECEIVED FOR RECORD
2016 SEPT 29 @ 10:03AM
Cabinet D Plats Jacket 81
PRESTON F. JONES, REGISTER

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1500-37-21-4.05
AMENDMENT NO:____



REFER TO THE TITLE SHEET, RECORDED AS 2 OF 2 OF THIS DOCUMENT VOLUME 91172 OF TRANSPORTATION PROJECT PLATS, PAGE 800 AS DOCUMENT NO. 1172800 FOR ADDITIONAL INFORMATION.



LOCATION SKETCH
NOT TO SCALE

AYRES ASSOCIATES

I, JAMES R. CAPPEART PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF CITY OF MANITOWOC, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: James R. Cappeart DATE: 9/26/2016
PRINT NAME: JAMES R. CAPPEART
REGISTRATION NUMBER: S-3044

WISCONSIN James R. Cappeart S-3044 Green Bay Wis. LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF MANITOWOC

SIGNATURE: _____ DATE: 9-28-16
PRINT NAME: DANIEL KOSKI

FILE NAME : N:\C3D\41062900\RW\1500-37-21 040105 RW.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : 9/27/2016 9:51 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : ==========

DOC # 1173022

TRANSPORTATION PROJECT PLAT NO: 1500-37-21 - 4.06

PART OF LOT 5 OF ALLEN'S SUBDIVISION OF THE NORTH ONE-HALF OF THE NORTHEAST ONE-QUARTER, PART OF LOTS 1, 2, 3, 4 AND 5 OF HOLZINGER ADDITION, PART OF LOT 1, BLOCK 1 OF MENCHL'S SUBDIVISION, PART OF BLOCK 1 AND LOTS 1, 2, 3, 4, 5 AND 6 OF BLOCK 2 OF THE SCHOOL PLAT, ALL IN SECTION 19, TOWNSHIP 19 NORTH, RANGE 24 EAST, CITY OF MANITOWOC, MANITOWOC COUNTY, WISCONSIN.

RELOCATION ORDER USH 10, CTH R-8TH STREET, CITY OF MANITOWOC

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY MANITOWOC DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF MANITOWOC HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF MANITOWOC, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

R/W POINT TABLE		
POINT	Y COORDS	X COORDS
282	306857.734	232994.934
283	306795.740	232993.987
284	306759.245	232993.430
285	306752.245	232993.323
286	306759.364	232983.431
287	306762.826	232694.634
288	306759.862	232691.586
289	306753.654	232625.476

R/W POINT TABLE		
POINT	Y COORDS	X COORDS
290	306763.832	232610.640
291	306768.758	232199.680
292	306763.878	232189.619
293	306768.877	232189.681
294	306805.374	232190.118
295	306865.870	232190.888
296	306870.870	232190.951
297	306865.810	232195.888

R/W POINT TABLE		
POINT	Y COORDS	X COORDS
298	306860.817	232612.475
299	306875.635	232627.734
300	306884.843	232693.903
301	306861.167	232708.495
302	306644.324	232185.130
303	306632.796	232194.728
304	306629.325	232184.943

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	NEW R/W SF	TOTAL R/W SF	TLE SF
86	DOUGLAS J. KUBEC	FEE AND TLE	73	73	219
87	JON A. HACKER	FEE AND TLE	13	13	683
88	JANET B. CHERMAK	TLE	------	------	641
89	JOVON W. AND CASSIDY A. SCHLOSEKY	TLE	------	------	647
90	GREG AND MARILYN HAMACHEK	TLE	------	------	657
91	HIPOLITO JR. AND MIKAELA BROOKS	TLE	------	------	663
92	THEODORE AND SUSAN M. HERRMANN	FEE AND TLE	112	112	1250
93	DEAN M. SCHADRIE	FEE AND TLE	25	25	1692
94	LYNN C. DEBAUCH	TLE	------	------	537
95	DANIEL J. AND TRACY A. PAHMEIER	TLE	------	------	522
96	ANTON F. JR. AND HARRIETT LEFKY	TLE	------	------	1249
97	TIMOTHY L. GUMM	FEE AND TLE	75	75	723
98	DAVID W. AND BARBARA L. HEILMAN	FEE AND TLE	5	5	1909
99	ANDREW W. AND HEIDI M. CLEMENTS	TLE	------	------	894
100	LAWRENCE F. AND JAYNE E. HAGMAN	FEE AND TLE	35	35	1029
101	MANITOWOC PUBLIC SCHOOL DISTRICT WOODROW WILSON	FEE AND TLE	176	176	1863

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE CITY.

REGISTERS OFFICE
MANITOWOC COUNTY, WI } SS
RECEIVED FOR RECORD
2016 SEPT 29 @10:04AM
Cabinet D Plats Jacket 82
PRESTON F. JONES, REGISTER

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1500-37-21-4.06
AMENDMENT NO:____

T 19 N R 24 E
18 | 19
PK NAIL
Y=307480.961
X=230336.520

S88°16'25"E 1859.17'

SECTION LINE S88°16'25"E 2667.91'

T 19 N R 24 E
18 | 17
19 | 20
PK NAIL
Y=307400.592
X=233003.221

GN

SCALE, FEET 0 50' 100'

CITY

ALLEN'S SUBDIVISION OF THE NORTH 1/2 OF THE NORTHEAST 1/4

LOT 5

HOLZINGER ADDITION

TLE FOR SLOPING

EASEMENT FOR TRAFFIC SIGNALS
CITY OF MANITOWOC-30'X30'
V.1833, P. 331, D.938654

SCHOOL PLAT
BLOCK 1

N. 12TH ST.
N. 11TH ST.
N. 10TH ST.
EXISTING R/W

NE-NE 19-19-24

OF

NW-NW 20-19-24

USH 10/STH 42 (WALDO BLVD.)

ALLEN'S SUBDIVISION OF THE NORTH 1/2 OF THE NORTHEAST 1/4

C MEYERS SUBDIVISION

MENASHA AVE.

BLOCK 1

MENCHL'S SUBDIVISION

SCHOOL PLAT
BLOCK 2

MANITOWOC

SECTION LINE S00°52'29"W

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
282-283	S00°52'29"W	62.00'
283-284	S00°52'29"W	36.50'
284-285	S01°52'29"W	7.00'
285-286	N54°15'34"W	12.19'
286-287	N89°18'48"W	288.82'
287-288	S45°48'37"W	4.25'
288-289	S84°38'07"W	66.40'
289-290	N55°32'50"W	17.99'
290-291	N89°18'48"W	410.99'
291-292	S64°07'37"W	11.18'
292-293	N00°42'48"E	5.00'
293-294	N00°41'12"E	36.50'
294-295	N00°43'46"E	60.50'
295-296	N00°42'48"E	5.00'
296-297	S44°18'00"E	7.07'
297-298	S89°18'48"E	416.62'
298-299	N45°50'20"E	21.27'
299-300	N82°04'41"E	66.81'
300-301	S31°38'48"E	27.81'
301-282	S89°18'48"E	286.45'

R/W COURSE TABLE (PARCEL 86)		
COURSE	BEARING	DISTANCE
302-303	S39°46'54"E	15.00'
303-304	S70°27'57"W	10.38'
304-302	N00°42'48"E	15.00'

T 19 N R 24 E
19 | 20
PK NAIL
Y=304857.473
X=232964.396

REFER TO THE TITLE SHEET, RECORDED AS 2 OF 2 OF THIS DOCUMENT VOLUME 91172 OF TRANSPORTATION PROJECT PLATS, PAGE 800 AS DOCUMENT NO. 1172800 FOR ADDITIONAL INFORMATION.

PLAT LOCATION

R 23 E | R 24 E
T 19 N

LOCATION SKETCH
NOT TO SCALE

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT OF WAY FOR USH 10 ESTABLISHED FROM PREVIOUS PROJECT 1474-1-71, FEDERAL AID PROJECTS 424-D AND 424-E.

EXISTING HIGHWAY RIGHT OF WAY FOR SIDE STREETS ESTABLISHED FROM SUBDIVISION PLATS.

AYRES ASSOCIATES

I, JAMES R. CAPPEART PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF CITY OF MANITOWOC, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: James R. Cappeart DATE: 9/26/2016
PRINT NAME: JAMES R. CAPPEART
REGISTRATION NUMBER: S-3044

WISCONSIN James R. Cappeart S-3044 Green Bay Wis. LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF MANITOWOC

SIGNATURE: _____ DATE: 9-28-16
PRINT NAME: DANIEL KOSKI

FILE NAME : N:\C3D\41062900\RW\1500-37-21 040106 RW.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : 9/27/2016 9:07 AM
PLOT BY : SOUFAL, KEVIN
PLOT NAME :
PLOT SCALE : **********

TRANSPORTATION PROJECT PLAT NO: 1500-37-21 - 4.07

PART OF BLOCK 1 AND LOTS 1, 2, 3, 4, AND 5, BLOCK 3 OF THE SCHOOL PLAT, LOTS 12, 13, 14, 15, 16, 21, 22, 23, AND 24, BLOCK F OF REED'S ADDITION, ALL IN SECTION 20, TOWNSHIP 19 NORTH, RANGE 24 EAST, CITY OF MANITOWOC, MANITOWOC COUNTY, WISCONSIN.

RELOCATION ORDER USH 10, CTH R-8TH STREET, CITY OF MANITOWOC

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY MANITOWOC DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF MANITOWOC HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF MANITOWOC, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	NEW R/W SF	TOTAL R/W SF	TLE SF
101	MANITOWOC PUBLIC SCHOOL DISTRICT WOODROW WILSON	FEE AND TLE	43	43	2374
102	IMMANUEL EVANGELICAL LUTHERAN CHURCH	FEE AND TLE	75	75	2935
103	VICTOR E. AND ANNE M. MYERS	FEE AND TLE	50	50	1233
104	BREY PROPERTY MANAGEMENT LLC	TLE	------	------	861
---	------	------	------	------	------
106	JEFFREY C. SCHWARK	TLE	------	------	235
107	RICK PIETROSKE	TLE	------	------	1227
108	ORVILLE K. AND JERILYN RASMUSSEN	FEE AND TLE	50	50	1180
109	STEVEN J. AND KIM A. STEENO	TLE	------	------	3150
110	GREGG P. AND JOANNE M. KADOW	TLE	------	------	208

UTILITY INTERESTS REQUIRED

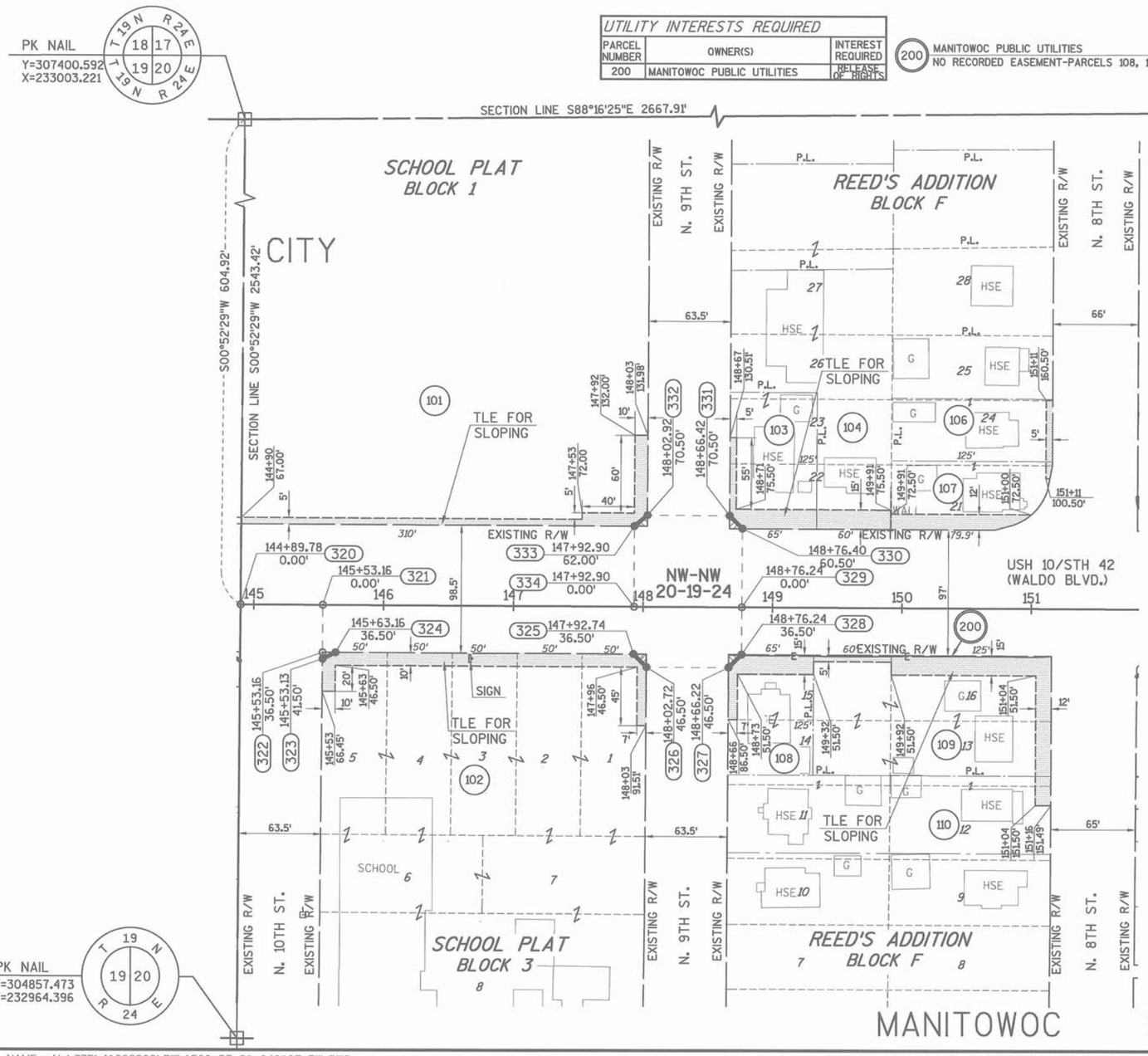
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
200	MANITOWOC PUBLIC UTILITIES	RELEASE OF RIGHTS

200 MANITOWOC PUBLIC UTILITIES
NO RECORDED EASEMENT-PARCELS 108, 109

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE CITY.

REGISTERS OFFICE MANITOWOC COUNTY, WI } SS
RECEIVED FOR RECORD
2016 SEPT 29 @10:05AM
Cabinet D Photo Packet 82
PRESTON F. JONES, REGISTER

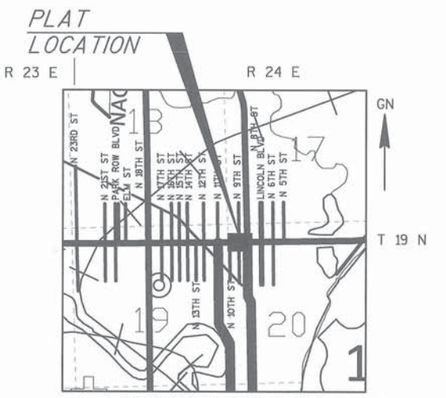
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1500-37-21-4.07
AMENDMENT NO:____



GN

SCALE, FEET 0 50' 100'

PLAT LOCATION



LOCATION SKETCH
NOT TO SCALE

R/W POINT TABLE

POINT	Y COORDS	X COORDS
320	306795.740	232993.987
321	306794.981	233057.363
322	306758.484	233056.926
323	306753.484	233056.840
324	306758.364	233066.925
325	306755.613	233296.487
326	306745.494	233306.349
327	306744.733	233369.845
328	306754.612	233379.981
329	306791.109	233380.418
330	306851.603	233381.309
331	306861.722	233371.447
332	306862.483	233307.951
333	306854.103	233297.836
334	306792.108	233297.090

R/W COURSE TABLE

COURSE	BEARING	DISTANCE
320-321	N89°18'48"W	63.38'
321-322	S00°41'12"W	36.50'
322-323	S00°59'05"W	5.00'
323-324	N64°10'53"E	11.20'
324-325	S89°18'48"E	229.58'
325-326	S44°15'52"E	14.13'
326-327	S89°18'48"E	63.50'
327-328	N45°44'08"E	14.15'
328-329	N00°41'12"E	36.50'
329-330	N00°50'36"E	60.50'
330-331	N44°15'52"W	14.13'
331-332	N89°18'48"W	63.50'
332-333	S50°22'13"W	13.14'
333-334	S00°41'12"W	62.00'
334-321	N89°18'48"W	239.74'

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT OF WAY FOR USH 10 ESTABLISHED FROM PREVIOUS PROJECT 1474-1-71, FEDERAL AID PROJECTS 424-D AND 424-E.

EXISTING HIGHWAY RIGHT OF WAY FOR SIDE STREETS ESTABLISHED FROM SUBDIVISION PLATS.

REFER TO THE TITLE SHEET, RECORDED AS 2 OF 2 OF THIS DOCUMENT VOLUME 91172 OF TRANSPORTATION PROJECT PLATS, PAGE 800 AS DOCUMENT NO. 1172800 FOR ADDITIONAL INFORMATION.

AYRES ASSOCIATES

I, JAMES R. CAPPEART PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF CITY OF MANITOWOC, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: James R. Cappeart DATE: 9/26/2016
PRINT NAME: JAMES R. CAPPEART
REGISTRATION NUMBER: S-3044

WISCONSIN James R. Cappeart S-3044 Green Bay Wis. LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF MANITOWOC

SIGNATURE: _____ DATE: 9-28-16
PRINT NAME: DANIEL KOSKI

FILE NAME : N:\C3D\41062900\RW\1500-37-21 040107 RW.DWG
APPRAISAL PLAT DATE : _____
PLOT DATE : 9/27/2016 8:47 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : **********

doc# 1172801

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
4570-12-21
WALDO BLVD, CITY OF MANITOWOC
8TH STREET - MARITIME DRIVE
STH 42
MANITOWOC COUNTY

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING TO BE REMOVED
BRIDGE

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED) IP
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
OFF-PREMISE SIGN

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE		
TELEPHONE POLE		
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)		

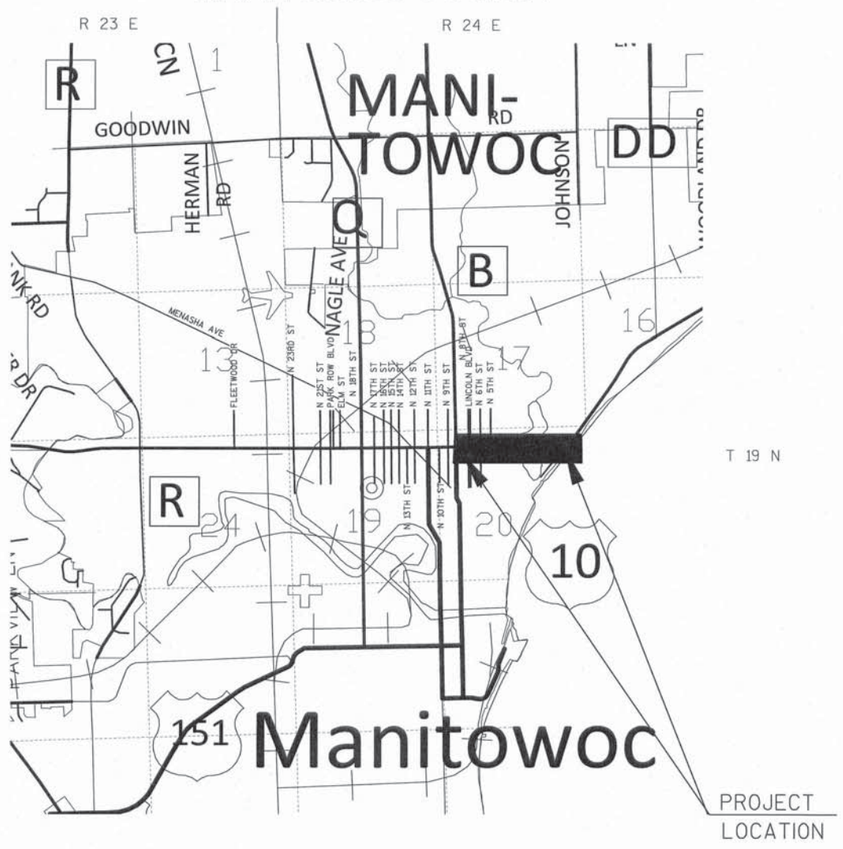
ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER (25) UTILITY NUMBER (40)
PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC	PROPERTY LINE	PL
AHEAD	AH	RECORDED AS	100'
ALUMINUM	ALUM	REEL / IMAGE	R/I
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RESTICTIVE DEVELOPMENT EASEMENT	RDE
CENTERLINE	C/L	RIGHT	RT
CERTIFIED SURVEY MAP	CSM	RIGHT OF WAY	R/W
CONCRETE	CONC	SECTION	SEC
COUNTY	CO	SEPTIC VENT	SEPV
COUNTY TRUNK HIGHWAY	CTH	SQUARE FEET	SF
DISTANCE	DIST	STATE TRUNK HIGHWAY	STH
CORNER	COR	STATION	STA
DOCUMENT NUMBER	DOC	TELEPHONE PEDESTAL	TP
EASEMENT	EASE	TEMPORARY LIMITED EASEMENT	TLE
EXISTING	EX	TRANSPORTATION PROJECT PLAT	TPP
GAS VALVE	GV	UNITED STATES HIGHWAY	USH
GRID NORTH	GN	VOLUME	V
HIGHWAY EASEMENT	HE		
IDENTIFICATION	ID		
LAND CONTRACT	LC		
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS		
NUMBER	NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		
POINT OF COMPOUND CURVE	PCC		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB



GN

LAYOUT
SCALE 0 0.5 MI.

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS

THE NOTES,CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 4570-12-21

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), MANITOWOC COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 1" X 24" IRON PIPE), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE USH 10 EASTBOUND CONSTRUCTION REFERENCE LINE.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.
EXCLUDED FROM THIS EASEMENT IS ANY LAND CURRENTLY OCCUPIED BY BUILDINGS.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED

EXISTING ACCESS CONTROL ALONG STH 42 ESTABLISHED FROM CONTROLLED ACCESS PROJECT CA 01-4(1).

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT OF WAY FOR STH 42 ESTABLISHED FROM PREVIOUS TRANSPORTATION PROJECT PLAT 1470-26-00-4.01, 1470-23-00-4.02, 1470-23-00-4.03 AND NATIONAL RECOVERY PROJECT NO. N.R.M. 2.

EXISTING HIGHWAY RIGHT OF WAY FOR SIDE STREETS ESTABLISHED FROM SUBDIVISION PLATS AND CERTIFIED SURVEY MAP RECORDED IN VOLUME OF CERTIFIED SURVEY MAPS, PAGE 585, DOCUMENT NO. 530194.

REGISTERS OFFICE
MANITOWOC COUNTY, WI } SS
RECEIVED FOR RECORD
2016 SEPT 23 @11:33AM
Cabinet D Plats Jacket 79
PRESTON F. JONES-REGISTER

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 4570-12-21 - 4.01
SHEET 2 OF 2
AMENDMENT NO:

FILE NAME : N:\C3D\41062900\RW\4570-12-21 040100 RW.DWG
APPRAISAL PLAT DATE :
PLOT DATE : 9/13/2016
PLOT BY :
PLOT NAME :
LAYOUT NAME - 4570-12-21 040100 RW - TPP TITLE 34X22

TRANSPORTATION PROJECT PLAT NO: 4570-12-21 - 4.01

PART OF LOTS 16, 17, 18, 19, 20, 21 AND 22, BLOCK 3, LOTS 15, 16, 17, 18, 19 AND 20, BLOCK 4, LOTS 1, 2, 3, 4, 5 AND 6, BLOCK 5 AND LOTS 1, 2, 3, 4, 5, 6 AND 7, BLOCK 6 OF THE LINCOLN PARK SUBDIVISION, PART OF LOT 13 OF THE AUG. BRINKMAN'S RESUBDIVISION IN THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER, ALL IN SECTION 20, TOWNSHIP 19 NORTH, RANGE 24 EAST, CITY OF MANITOWOC, MANITOWOC COUNTY, WISCONSIN.

RELOCATION ORDER STH 42, 8TH STREET-MARITIME DRIVE, CITY OF MANITOWOC

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF MANITOWOC DEEM IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

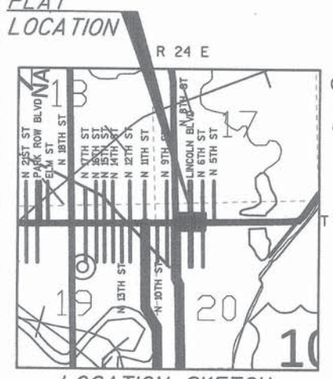
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF MANITOWOC HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF MANITOWOC, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	NEW R/W SF	TOTAL R/W SF	TLE SF
149	RODGER D. WHITESIDE JR.	TLE	-----	-----	175
150	VICTORIA A. HENNING	FEE AND TLE	145	145	1274
151	GILBERTO HERRERA JR.	TLE	-----	-----	521
152	STANLEY J. AND HILDA E. STURA	TLE	-----	-----	826
153	THE DAVID HANSON AND FLORENCE HANSON TRUST	FEE AND TLE	72	72	1116
154	RICHARD W. AND KELLY J. VANDERBLOOMEN	FEE AND TLE	118	118	1848
155	REV. ROBERT M. AND CHERYL L. BLEEKE	TLE	-----	-----	598
156	CONRAD E. BAETZ	TLE	-----	-----	1188
157	STEVEN R. AND KATHLEEN ALPERT	FEE AND TLE	75	75	1622
158	ABEL TRUST	FEE AND TLE	150	150	1447
159	RANDALL K. AND KAREN M. NELSON	TLE	-----	-----	2019
160	CHARLES H. AND KALI M. KELLERMAN	FEE AND TLE	75	75	1126
161	GEORGE A. AND PATRICIA L. SLADKY	FEE AND TLE	35	35	1140
162	WARREN F. KANZELBERGER	TLE	-----	-----	783
163	DANIEL R. AND JENNIFER L. SIMS	TLE	-----	-----	539
164	EDDIE K. AND ANNIE T. MOY	FEE AND TLE	75	75	1540

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE CITY.

PLAT LOCATION



LOCATION SKETCH
NOT TO SCALE

REGISTERS OFFICE
MANITOWOC COUNTY, WI
RECEIVED FOR RECORD
2016 SEPT 23 @11:33AM
Cabinet D Plats Jacket 79
PRESTON F. JONES-REGISTER

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 4570-12-21-4.01
AMENDMENT NO:___
SHEET 1 OF 2

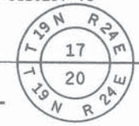
CURVE TABLE					
CURVE	COURSE	LENGTH	RADIUS	LONG CHORD	LONG CHORD BEARING
C1	101-103	40.82'	26.00'	36.76'	S44°20'07"E

PK NAIL
Y=307400.592
X=233003.221
S89°58'20"E
689.50'

SECTION LINE S89°58'20"E 2616.15'

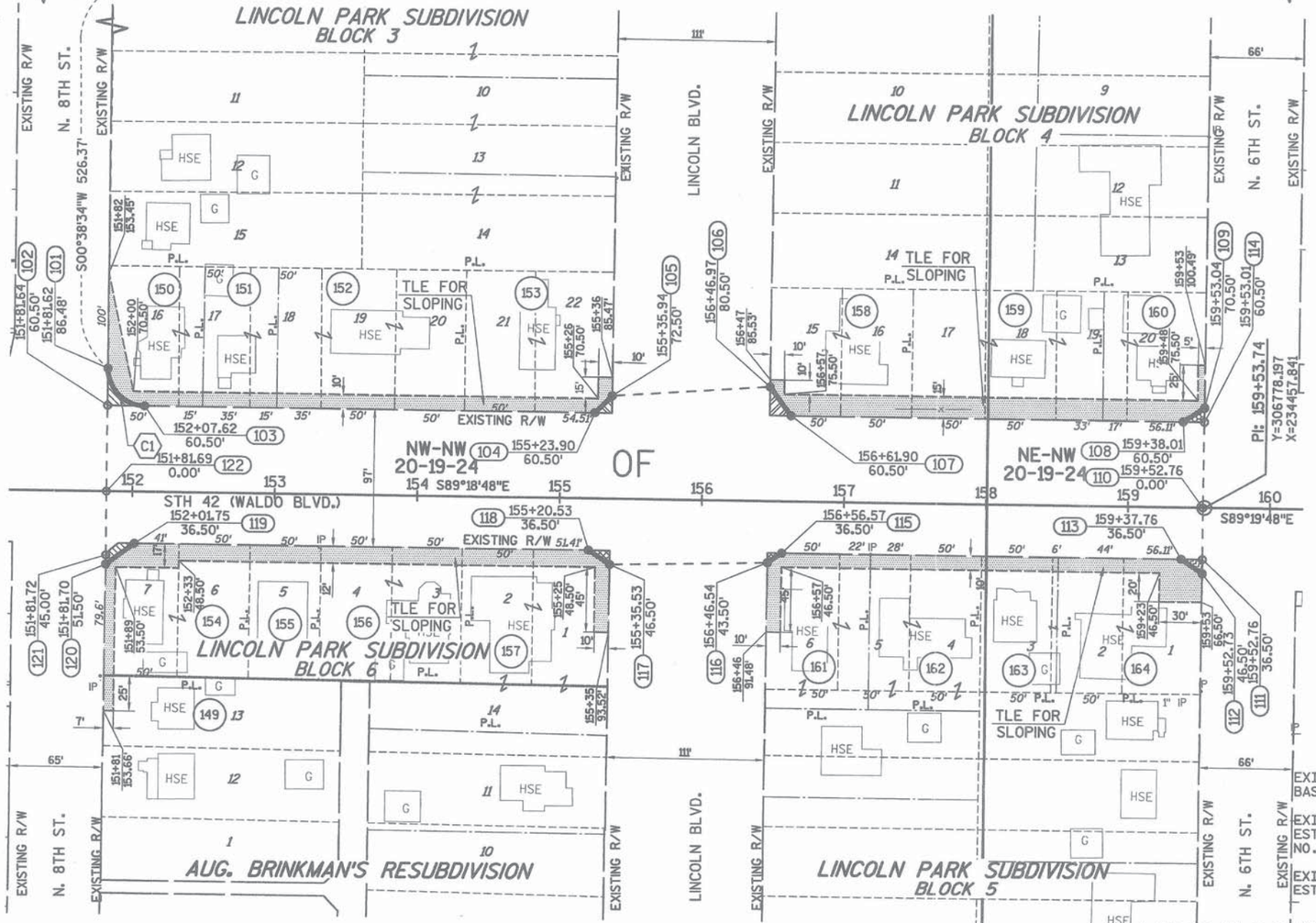
GN

0 50 100
SCALE, FEET



2" IRON PIPE WITH CAP
Y=307399.325
X=235619.375

CITY



R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
C1	SEE CURVE TABLE	
103-104	S89°18'48"E	316.28'
104-105	N45°47'08"E	17.00'
105-106	N86°33'55"E	111.32'
106-107	S36°03'26"E	24.96'
107-108	S89°18'48"E	276.11'
108-109	N57°02'35"E	18.05'
109-114	S00°50'14"W	10.00'
114-110	S00°55'41"W	60.50'
110-111	S00°41'12"W	36.50'
111-112	S00°50'14"W	10.00'
112-113	N55°34'37"W	18.01'
113-115	N89°18'48"W	281.19'
115-116	S55°45'34"W	12.23'
116-117	S89°08'20"W	111.06'
117-118	N55°36'19"W	18.02'
118-119	N89°18'48"W	318.78'
119-120	S53°53'01"W	25.04'
120-121	N00°52'23"E	6.50'
121-122	N00°35'02"E	45.00'
122-102	N00°40'04"E	60.50'
102-101	N00°41'12"E	25.98'

R/W POINT TABLE		
POINT	Y COORDS	X COORDS
101	306873.923	233686.819
102	306847.945	233686.507
103	306847.634	233712.506
104	306843.843	234028.761
105	306855.698	234040.945
106	306862.367	234152.061
107	306842.189	234166.752
108	306838.881	234442.843
109	306848.700	234457.988
110	306778.209	234456.862
111	306741.711	234456.425
112	306731.712	234456.278
113	306741.891	234441.426
114	306838.701	234457.842
115	306745.260	234160.257
116	306738.381	234150.150
117	306736.712	234039.101
118	306746.891	234024.233
119	306750.711	233705.472
120	306735.952	233685.245
121	306742.452	233685.344
122	306787.449	233685.802

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT OF WAY FOR STH 42 ESTABLISHED FROM NATIONAL RECOVERY PROJECT NO. N.R.M. 2.

EXISTING HIGHWAY RIGHT OF WAY FOR SIDE STREETS ESTABLISHED FROM SUBDIVISION PLATS.

REFER TO THE TITLE SHEET RECORDED AS SHEET 2 OF 2 OF THIS DOCUMENT FOR ADDITIONAL INFORMATION.

AYRES ASSOCIATES

I, JAMES R. CAPPEART PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF CITY OF MANITOWOC, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: James Cappeart DATE: 9/22/2016
PRINT NAME: JAMES R. CAPPEART
REGISTRATION NUMBER: S-3044

WISCONSIN James R. Cappeart S-3044 Green Bay Wis. LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF MANITOWOC
SIGNATURE: _____ DATE: 9-23-16
PRINT NAME: David J Kolb

FILE NAME : N:\C3D\41062900\RW\4570-12-21 040101 RW.DWG
APPRAISAL PLAT DATE : _____
PLOT DATE : 9/13/2016 PLOT BY : PLOT NAME : PLOT SCALE : **********

DOC# 1173024

TRANSPORTATION PROJECT PLAT NO: 4570-12-21 - 4.02

PART OF TRACT 1 OF CERTIFIED SURVEY MAP RECORDED IN VOLUME 26, PAGE 255 AS DOCUMENT NO. 1021383 LOCATED IN LOT 1 BLOCK H OF THE SHOREWOOD MANOR NO. 3, PART OF LOT 1 BLOCK G OF SHOREWOOD MANOR NO. 3 AND PART OF THE NORTHWEST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER, ALL IN SECTION 20, TOWNSHIP 19 NORTH, RANGE 24 EAST, CITY OF MANITOWOC, MANITOWOC COUNTY, WISCONSIN.

RELOCATION ORDER STH 42, 8TH STREET-MARITIME DRIVE, CITY OF MANITOWOC

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF MANITOWOC DEEM IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 62.22, WISCONSIN STATUTES, THE CITY OF MANITOWOC HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF MANITOWOC, PURSUANT TO THE PROVISIONS OF SUBSECTION 62.22, WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED						
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	NEW R/W SF	TOTAL R/W SF	PLE SF	TLE SF
167	NICOLE M. AND NIGEL R. ORDIWAY	TLE	-------	-------	-------	673
168	MICKEY VELEKE ET AL	FEE AND TLE	2933	2933	-------	720
169	CITY OF MANITOWOC	PLE	-------	-------	4881	-------
170	MICHAEL A. AND LINDA J. LEFKY	TLE	-------	-------	-------	1184

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE CITY.

REGISTERS OFFICE
MANITOWOC COUNTY, WI } SS
RECEIVED FOR RECORD
2016 SEPT 29 @10:06AM
Cabinet D Plats Jacket 83
PRESTON F. JONES-REGISTER

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 4570-12-21-4.02
AMENDMENT NO:____

R/W POINT TABLE		
POINT	Y COORDS	X COORDS
121	306764.656	235615.520
122	306761.165	235914.005
123	306723.168	235913.561
124	306650.566	235964.614
125	306650.393	235979.385
126	306722.387	235980.267
127	306760.384	235980.733

R/W POINT TABLE		
POINT	Y COORDS	X COORDS
128	306649.805	236029.612
129	306721.805	236030.100
131	306754.829	236455.763
132	306716.830	236455.447
133	306674.831	236455.098
134	306674.621	236473.031
135	306716.326	236498.521

T 19 N R 24 E
17 16
20 21
T 19 N R 24 E

Y=307425.121
X=238285.617

2" IRON PIPE WITH CAP
Y=307399.325
X=235619.375

SECTION LINE N88°26'44"E 2666.37'

CITY OF MANITOWOC

S00°20'53"W 634.68'
P.L.
ONE-QUARTER LINE S00°20'53"W 2642.71'

NE-NW 20-19-24

NW-NE 20-19-24

STH 42 (WALDO BLVD.)

EXISTING R/W

S89°19'48"E

TLE FOR SLOPING

PERMANENT LIMITED EASEMENT FOR DRAINAGE

PEDESTRIAN WALKWAY

WALL

HSE

BLOCK G

BLOCK H

TRACT 1 OF CSM V.26, P.255, DOC. 1021383

SHOREWOOD MANOR NO.3

2" IRON PIPE WITH CAP
Y=304756.660
X=235603.321

EXISTING ACCESS CONTROL ALONG STH 42 ESTABLISHED FROM CONTROLLED ACCESS PROJECT CA 01-4(1).

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT OF WAY FOR STH 42 ESTABLISHED FROM PREVIOUS TRANSPORTATION PROJECT PLAT 1470-26-00-4.01 AND NATIONAL RECOVERY PROJECT NO. N.R.M. 2.

REFER TO THE TITLE SHEET, RECORDED AS 2 OF 2 OF THIS DOCUMENT VOLUME 91172 OF TRANSPORTATION PROJECT PLATS, PAGE 801 AS DOCUMENT NO. 1172801 FOR ADDITIONAL INFORMATION.

R/W COURSE TABLE (PARCEL 169) PLE		
COURSE	BEARING	DISTANCE
121-131	S89°19'48"E	840.30'
131-132	S00°28'36"W	38.00'
132-133	S00°28'34"W	42.00'
133-134	S89°19'48"E	17.93'
134-135	N31°25'58"E	48.88'
135-132	N89°19'48"W	43.08'

R/W COURSE TABLE (PARCEL 168)		
COURSE	BEARING	DISTANCE
121-122	S89°19'48"E	298.51'
122-123	S00°40'12"W	38.00'
123-124	S35°06'52"E	88.76'
124-125	S89°19'48"E	14.77'
125-126	N00°42'08"E	72.00'
126-123	N89°19'48"W	66.71'

R/W COURSE TABLE (PARCEL 169 PLE)		
COURSE	BEARING	DISTANCE
121-127	S89°19'48"E	365.24'
127-126	S00°42'08"W	38.00'
126-125	S00°42'08"W	72.00'
125-128	S89°19'48"E	50.23'
128-129	N00°23'20"E	72.00'
129-126	N89°19'48"W	49.84'

GN

SCALE, FEET 0 50' 100'

PLAT LOCATION

R 19 E

T 24 N

LOCATION SKETCH
NOT TO SCALE

AYRES ASSOCIATES

I, JAMES R. CAPPEART PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF CITY OF MANITOWOC, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: James R. Cappeart DATE: 9/26/2016
PRINT NAME: JAMES R. CAPPEART
REGISTRATION NUMBER: S-3044

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF MANITOWOC

SIGNATURE: _____ E: 9-28-16
PRINT NAME: DANIEL KOSKI

WISCONSIN James R. Cappeart S-3044 Green Bay Wis. LAND SURVEYOR

FILE NAME : N:\C3D\41062900\RW\4570-12-21 040102 RW.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : 9/27/2016 8:14 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : **********

DOC # 1173025

TRANSPORTATION PROJECT PLAT NO: 4570-12-21 - 4.03

PART OF TRACT 8 OF CSM RECORDED IN VOLUME 8, PAGE 577, AS DOCUMENT NO. 547388 LOCATED AND INCLUDING NORTHWEST 1/4 OF THE NORTHEAST 1/4, PART OF TRACTS 1 AND 4 OF CSM RECORDED VOLUME 7, PAGE 585 AS DOCUMENT NO. 530194 LOCATED IN AND INCLUDING THE NORTHEAST 1/4 OF THE NORTHEAST 1/4, ALL IN SECTION 20, TOWNSHIP 19 NORTH, RANGE 24 EAST, CITY OF MANITOWOC, MANITOWOC COUNTY, WISCONSIN.

RELOCATION ORDER STH 42, 8TH STREET-MARITIME DRIVE, CITY OF MANITOWOC

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF MANITOWOC DEEM IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF MANITOWOC HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF MANITOWOC, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

CITY

REFER TO THE TITLE SHEET, RECORDED AS 2 OF 2 OF THIS DOCUMENT VOLUME 91172 OF TRANSPORTATION PROJECT PLATS, PAGE 801 AS DOCUMENT NO. 1172801 FOR ADDITIONAL INFORMATION.

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
145-143	N00°39'41"E	61.98'
143-144	N00°39'41"E	28.04'
144-146	S89°21'13"E	131.43'
146-147	N80°23'14"E	214.56'
147-148	N64°28'22"E	178.28'
148-149	S74°29'14"E	98.66'
149-150	N56°06'07"E	191.00'
150-151	N67°31'48"E	57.60'

R/W COURSE TABLE		
COURSE	BEARING	DISTANCE
151-152	S52°13'36"E	61.55'
152-153	S37°46'02"W	144.92'
C5	SEE CURVE TABLE	
C4	SEE CURVE TABLE	
154-155	S65°57'31"W	59.07'
155-157	N84°34'12"W	147.40'
C3	SEE CURVE TABLE	
158-159	S75°03'48"W	73.99'
C2	SEE CURVE TABLE	
160-145	N89°19'47"W	131.45'

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	NEW R/W SF	TOTAL R/W SF	TLE SF
170	MICHAEL A. AND LINDA J. LEFKY	TLE	------	------	2636
171	ONE EAST WALDO PROPERTIES, LLP	TLE	------	------	4359
172	WALDO PARTNERSHIP INVESTMENTS, LLC	TLE	------	------	728
173	201 WALDO, LLC	TLE	------	------	1526
174	RED ARROW PRODUCTS COMPANY LLC	FEE AND TLE	40,323	40,323	1410

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE CITY.

UTILITY INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
200	CITY OF MANITOWOC	RELEASE OR RIGHTS
201	MANITOWOC PUBLIC UTILITIES	RELEASE OR RIGHTS
202	AT&T	RELEASE OR RIGHTS

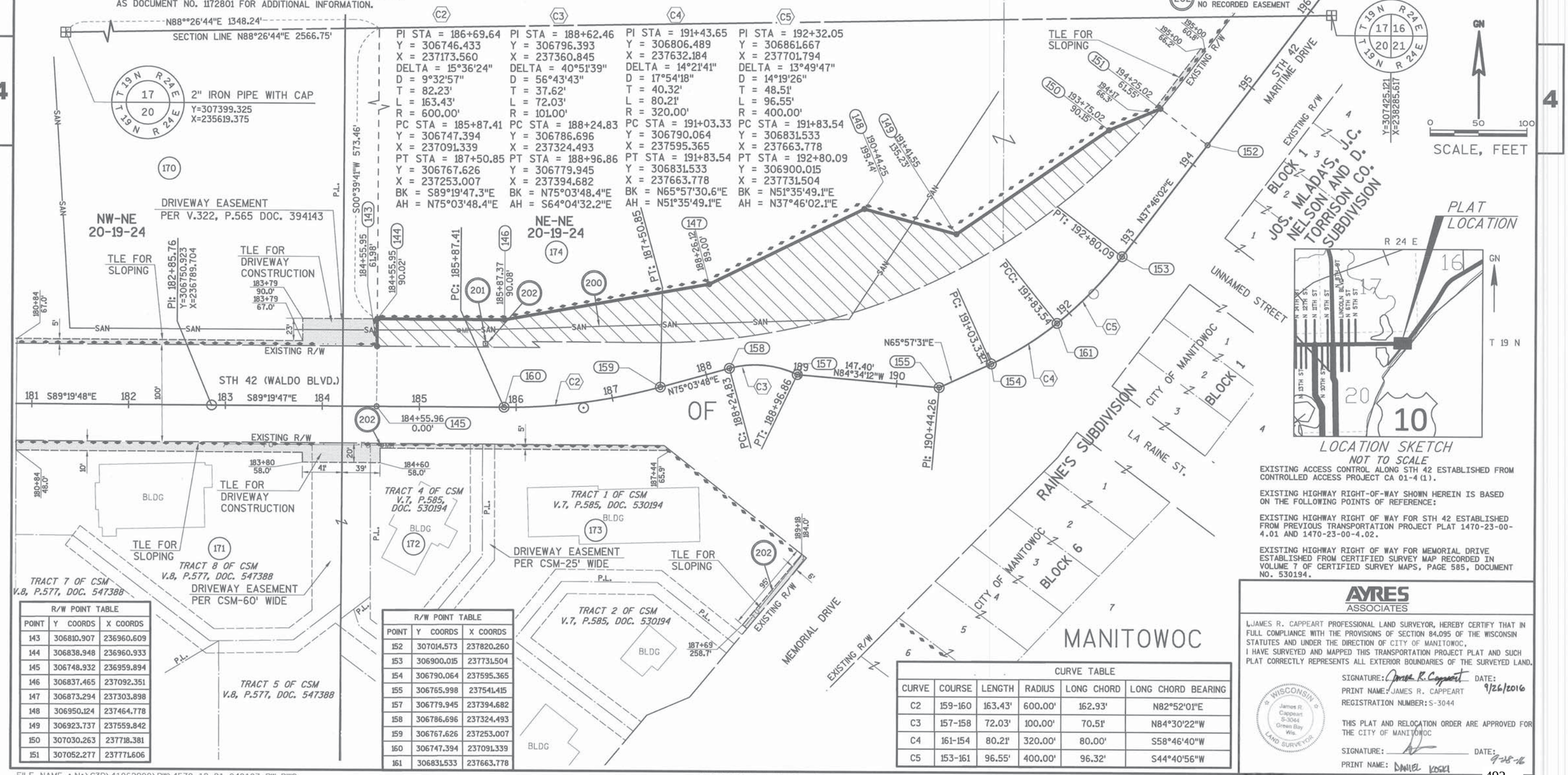
200 CITY OF MANITOWOC
V.2837, P.459, DOC. NO. 1135544-PARCEL 170
V.1061, P.515, DOC. NO. 477491-PARCEL 174
V.1062, P.512, DOC. NO. 477490-PARCEL 174

201 MANITOWOC PUBLIC UTILITIES
NO RECORDED EASEMENT

202 AT&T
NO RECORDED EASEMENT

REGISTERS OFFICE
MANITOWOC COUNTY, WI
RECEIVED FOR RECORD
2016 SEPT 29 @10:07AM
Cabinet D Plats Packed 83
PRESTON F. JONES, REGISTER

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 4570-12-21-4.03
AMENDMENT NO:____



LOCATION SKETCH
NOT TO SCALE

EXISTING ACCESS CONTROL ALONG STH 42 ESTABLISHED FROM CONTROLLED ACCESS PROJECT CA 01-4 (1).

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT OF WAY FOR STH 42 ESTABLISHED FROM PREVIOUS TRANSPORTATION PROJECT PLAT 1470-23-00-4.01 AND 1470-23-00-4.02.

EXISTING HIGHWAY RIGHT OF WAY FOR MEMORIAL DRIVE ESTABLISHED FROM CERTIFIED SURVEY MAP RECORDED IN VOLUME 7 OF CERTIFIED SURVEY MAPS, PAGE 585, DOCUMENT NO. 530194.

R/W POINT TABLE		
POINT	Y COORDS	X COORDS
143	306810.907	236960.609
144	306838.948	236960.933
145	306748.932	236959.894
146	306837.465	237092.351
147	306873.294	237303.898
148	306950.124	237464.778
149	306923.737	237559.842
150	307030.263	237718.381
151	307052.277	237771.606

R/W POINT TABLE		
POINT	Y COORDS	X COORDS
152	307014.573	237820.260
153	306900.015	237731.504
154	306790.064	237595.365
155	306765.998	237541.415
157	306779.945	237394.682
158	306786.696	237324.493
159	306767.626	237253.007
160	306747.394	237091.339
161	306831.533	237663.778

CURVE TABLE					
CURVE	COURSE	LENGTH	RADIUS	LONG CHORD	LONG CHORD BEARING
C2	159-160	163.43'	600.00'	162.93'	N82°52'01"E
C3	157-158	72.03'	100.00'	70.51'	N84°30'22"W
C4	161-154	80.21'	320.00'	80.00'	S58°46'40"W
C5	153-161	96.55'	400.00'	96.32'	S44°40'56"W

AYRES ASSOCIATES

I, JAMES R. CAPPEART PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF CITY OF MANITOWOC, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: James R. Cappeart DATE: 9/26/2016
PRINT NAME: JAMES R. CAPPEART
REGISTRATION NUMBER: S-3044

WISCONSIN James R. Cappeart S-3044 Green Bay Wis. LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF MANITOWOC

SIGNATURE: _____ DATE: 9-28-16
PRINT NAME: DANIEL KOSKI

FILE NAME : N:\C3D\41062900\RW\4570-12-21 040103 RW.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : 9/27/2016 8:17 AM PLOT BY : SOUFAL, KEVIN PLOT NAME : PLOT SCALE : **********

BEGIN PROJECT 1500-47-71
STA. 38+00

BASE PATCHING
CONCRETE REQ'D.

REMOVE AND REPLACE
CONCRETE CURB AND GUTTER
30-INCH TYPE A

REMOVE AND REPLACE
CONCRETE CURB AND GUTTER
30-INCH TYPE A
REMOVE AND REPLACE ISLAND
NOSE

EXISTING R/W

REMOVE ASPHALTIC PAVEMENT
REPLACE WITH CONCRETE
SIDEWALK 4-INCH

REMOVE AND REPLACE
CONCRETE CURB AND GUTTER
30-INCH TYPE A

BASE PATCHING
CONCRETE REQ'D.

MANHOLE
ADJUSTMENT
CASTING REQ'D

BASE PATCHING
CONCRETE REQ'D.

REMOVE AND REPLACE
ASPHALTIC SURFACE

BURIED FIBER OPTIC
(APPROXIMATE LOCATION)

STA. 39+21.34WB USH 10/STH 42=
STA. 10+24.28CR CTH R

BURIED GAS LINE
(APPROXIMATE LOCATION)

REMOVE AND REPLACE
ASPHALTIC SURFACE

BURIED TELEPHONE
(APPROXIMATE LOCATION)

BASE PATCHING
CONCRETE REQ'D.

BASE PATCHING
CONCRETE REQ'D.

BASE PATCHING
CONCRETE REQ'D.

REMOVE AND REPLACE
CONCRETE CURB AND GUTTER
30-INCH TYPE A

REMOVE ASPHALTIC PAVEMENT
REPLACE WITH CONCRETE
SIDEWALK 4-INCH

REMOVE AND REPLACE
CONCRETE CURB AND GUTTER
30-INCH TYPE A

BASE PATCHING
CONCRETE REQ'D.

REMOVE AND REPLACE
CONCRETE CURB AND GUTTER
30-INCH TYPE A

STA. 39+25.03EB USH 10/STH 42=
STA. 10+00.00CR CTH R

BASE PATCHING
CONCRETE REQ'D.

REMOVE AND REPLACE
CONCRETE CURB AND GUTTER
30-INCH TYPE A

BURIED ELECTRIC
(APPROXIMATE LOCATION)

BASE PATCHING
CONCRETE REQ'D.

BASE PATCHING
CONCRETE REQ'D.

EXISTING R/W

BURIED TELEPHONE
(APPROXIMATE LOCATION)

REMOVE AND REPLACE
ASPHALTIC SURFACE

BURIED TELEPHONE
(APPROXIMATE LOCATION)

EXISTING R/W

USH 10/STH 42

CTH R

37WB 38WB 39WB 40WB 41WB 42WB 43WB

37EB 38EB 39EB 40EB 41EB 42EB 43EB

12+00 11+00 10+00 9+00

N

5

5

PROJECT NO: 1500-47-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN	SHEET 493	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_47_71_050201_PN.DWG PLOT DATE : 8/15/2017 10:44 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 050201 pn PLOT SCALE : 1in:40 ft_XREF

WISDOT/CADDS SHEET 44

NOTE:
INLET PROTECTION REQUIRED FOR ALL INLET LOCATIONS. SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS AND TYPE.

N

STA. 47+22.48EB USH 10/STH 42
STA. 10+00.00FR N. 40TH ST.

CONCRETE DRIVEWAY 6-INCH REQ'D.

BURIED GAS LINE (APPROXIMATE LOCATION) CAUTION

BURIED TELEPHONE (APPROXIMATE LOCATION)

REMOVE AND REPLACE CONCRETE CURB AND GUTTER 30-INCH TYPE A

INLET ADJUSTMENT CASTING REQ'D.

CONCRETE SIDEWALK 4-INCH REQ'D.

EXISTING R/W

BASE PATCHING CONCRETE REQ'D.

INLET ADJUSTMENT CASTING REQ'D.

REPLACE ISLAND NOSE

BASE PATCHING CONCRETE REQ'D.

ADJUST MANHOLE

MANHOLE ADJUSTMENT CASTING REQ'D

REPLACE CURB

43WB 44WB 45WB S88°17'08"E 46WB 47WB 48WB 49WB

INLET ADJUSTMENT CASTING REQ'D.

BURIED ELECTRIC (APPROXIMATE LOCATION)

USH 10/STH 42

RECONSTRUCT INLET
INLET ADJUSTMENT CASTING REQ'D
REPLACE CONCRETE CURB
3-FOOT EACH SIDE OF INLET

REPLACE ISLAND NOSE

43EB 44EB 45EB S88°17'08"E 46EB 47EB 48EB 49EB

INLET ADJUSTMENT CASTING REQ'D.

REMOVE AND REPLACE CONCRETE CURB AND GUTTER 30-INCH TYPE A

REPLACE CURB

BASE PATCHING CONCRETE REQ'D.

BASE PATCHING CONCRETE REQ'D.

BASE PATCHING CONCRETE REQ'D.

INLET ADJUSTMENT CASTING REQ'D.

INLET ADJUSTMENT CASTING REQ'D.

CONCRETE SIDEWALK 4-INCH REQ'D.

CURB RAMP TYPE 1 REQ'D.

EXISTING R/W

CURB RAMP TYPE 1 REQ'D.

CONCRETE DRIVEWAY 6-INCH REQ'D.

CONCRETE SIDEWALK 4-INCH REQ'D.
CONSTRUCTION LIMITS
STA. 9+55

CONCRETE DRIVEWAY 6-INCH REQ'D.

EXISTING R/W

N00°49'18"E

40TH ST.
9FR

BP: 8+16.47

PROJECT NO: 1500-47-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN	SHEET 494	E

NOTE:
INLET PROTECTION REQUIRED FOR
ALL INLET LOCATIONS. SEE MISCELLANEOUS
QUANTITIES FOR LOCATIONS AND TYPE.

N

CONCRETE PAVEMENT
8-INCH REQ'D.

ASPHALTIC SURFACE
REQ'D. (MATCH EXISTING
DEPTH)

CURB RAMP
TYPE 4B1 REQ'D.

CONCRETE SIDEWALK
4-INCH REQ'D.

REMOVE AND REPLACE
CONCRETE CURB AND
GUTTER 18-INCH TYPE A

CAUTION
BURIED GAS LINE
(APPROXIMATE LOCATION)

BURIED TELEPHONE
(APPROXIMATE LOCATION)

CONCRETE DRIVEWAY
6-INCH REQ'D.

EXISTING R/W

CONCRETE SIDEWALK
4-INCH REQ'D.

CONCRETE DRIVEWAY
6-INCH REQ'D.

CURB RAMP
TYPE 7B REQ'D.

REMOVE AND REPLACE
CONCRETE CURB AND
GUTTER 30-INCH TYPE A

INLET ADJUSTMENT
CASTING REQ'D.

RECONSTRUCT INLET
INLET ADJUSTMENT CASTING REQ'D
REPLACE CONCRETE CURB
3-FOOT EACH SIDE OF INLET

REPLACE ISLAND
NOSE

INLET ADJUSTMENT
CASTING REQ'D.
BASE PATCHING
CONCRETE REQ'D.

MANHOLE
ADJUSTMENT
CASTING REQ'D

49WB 50WB 51WB S88°17'08"E 52WB 53WB 54WB 55WB

USH 10/STH 42

49EB 50EB 51EB S88°17'08"E 52EB 53EB 54EB 55EB

INLET ADJUSTMENT
CASTING REQ'D.

RECONSTRUCT INLET
INLET ADJUSTMENT
CASTING REQ'D
REPLACE CONCRETE CURB
3-FOOT EACH SIDE OF INLET

BASE PATCHING
CONCRETE REQ'D.

REMOVE AND REPLACE
CONCRETE CURB AND
GUTTER 30-INCH TYPE A

ADJUST
MANHOLE

CURB RAMP
TYPE 1 REQ'D.

CONSTRUCTION LIMIT
STA. 9+52

CONCRETE DRIVEWAY
6-INCH REQ'D.

CONCRETE DRIVEWAY
6-INCH REQ'D.

CONCRETE DRIVEWAY
6-INCH REQ'D.

STA. 53+99.65EB USH 10/STH 42=
STA. 10+00.00GV GLENVIEW DR.

N00°17'29"E

GLENVIEW DR.

CAUTION
BURIED GAS LINE
(APPROXIMATE LOCATION)

BP: 8+29.00

PROJECT NO: 1500-47-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_47_71_050203_PN.DWG PLOT DATE : 8/15/2017 10:53 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 050203 pn PLOT SCALE : 1in:40 ft_XREF

NOTE:
INLET PROTECTION REQUIRED FOR ALL INLET LOCATIONS. SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS AND TYPE.

N

CONCRETE DRIVEWAY 6-INCH REQ'D.

CONCRETE DRIVEWAY 6-INCH REQ'D.

CONCRETE DRIVEWAY 6-INCH REQ'D.

BURIED TELEPHONE (APPROXIMATE LOCATION)

STA. 60+02.36EB USH 10/STH 42=
STA. 10+00.00WC W. CRESCENT DR.

CONCRETE DRIVEWAY 6-INCH REQ'D.

BURIED GAS LINE (APPROXIMATE LOCATION) CAUTION

CONCRETE DRIVEWAY 6-INCH REQ'D.

EXISTING R/W

BASE PATCHING CONCRETE REQ'D.

BASE PATCHING CONCRETE REQ'D.

55WB 56WB 57WB 58WB 59WB 60WB S88°17'08"E 61WB

RECONSTRUCT INLET
INLET ADJUSTMENT CASTING REQ'D
REPLACE CONCRETE CURB
3-FOOT EACH SIDE OF INLET

USH 10/STH 42

BASE PATCHING CONCRETE REQ'D.

55EB 56EB 57EB 58EB 59EB 60EB 61EB

REPLACE ISLAND NOSE

BURIED ELECTRIC (APPROXIMATE LOCATION)

INLET ADJUSTMENT CASTING REQ'D.

BASE PATCHING CONCRETE REQ'D.

BURIED TELEPHONE (APPROXIMATE LOCATION)

MANHOLE ADJUSTMENT CASTING REQ'D

EXISTING R/W

CONCRETE DRIVEWAY 6-INCH REQ'D.

CURB RAMP TYPE 1 REQ'D.

CURB RAMP TYPE 1 REQ'D.

REMOVE AND REPLACE CONCRETE CURB AND GUTTER 30-INCH TYPE A

REMOVE AND REPLACE CONCRETE CURB AND GUTTER 30-INCH TYPE A

CONSTRUCTION LIMITS STA. 9+52

EXISTING R/W

W. CRESCENT DR.

9WC

N00°59'51"E

EXISTING R/W

PROJECT NO: 1500-47-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN	SHEET 496 E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_47_71_050204_PN.DWG PLOT DATE : 8/15/2017 10:57 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 050204 pn PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 44

NOTE:
INLET PROTECTION REQUIRED FOR ALL INLET LOCATIONS. SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS AND TYPE.

N

CONCRETE DRIVEWAY 6-INCH REQ'D.

CONCRETE DRIVEWAY 6-INCH REQ'D.

CONCRETE DRIVEWAY 6-INCH REQ'D.

REMOVE AND REPLACE CONCRETE CURB AND GUTTER 30-INCH TYPE A

CONCRETE DRIVEWAY 6-INCH REQ'D.

CAUTION

BURIED GAS LINE (APPROXIMATE LOCATION)

BURIED TELEPHONE (APPROXIMATE LOCATION)

CONCRETE DRIVEWAY 6-INCH REQ'D.

CONCRETE DRIVEWAY 6-INCH REQ'D.

CONCRETE DRIVEWAY 6-INCH REQ'D.

CONCRETE DRIVEWAY 6-INCH REQ'D.

EXISTING R/W

RECONSTRUCT INLET
INLET ADJUSTMENT CASTING REQ'D
REPLACE CONCRETE CURB
3-FOOT EACH SIDE OF INLET

INLET ADJUSTMENT CASTING REQ'D.

BASE PATCHING CONCRETE REQ'D.

INLET ADJUSTMENT CASTING REQ'D.

5

61WB 62WB 63WB 64WB 65WB 66WB S88°17'08"E 67WB

USH 10/STH 42

REPLACE ISLAND NOSE

BURIED ELECTRIC (APPROXIMATE LOCATION)

61EB 62EB 63EB 64EB 65EB 66EB S88°17'08"E 67EB

5

INLET ADJUSTMENT CASTING REQ'D.

INLET ADJUSTMENT CASTING REQ'D.

MANHOLE ADJUSTMENT CASTING REQ'D

BASE PATCHING CONCRETE REQ'D.

RECONSTRUCT INLET
INLET ADJUSTMENT CASTING REQ'D
REPLACE CONCRETE CURB
3-FOOT EACH SIDE OF INLET

EXISTING R/W

CURB RAMP TYPE 1 REQ'D.

CURB RAMP TYPE 1 REQ'D.

EXISTING R/W

BURIED TELEPHONE (APPROXIMATE LOCATION)

REMOVE AND REPLACE CONCRETE CURB AND GUTTER 30-INCH TYPE A

CONCRETE DRIVEWAY 6-INCH REQ'D.

CONSTRUCTION LIMITS STA. 9+47

REMOVE AND REPLACE CONCRETE CURB AND GUTTER 30-INCH TYPE A

STA. 63+52.30EB USH 10/STH 42=
STA. 10+00.00EC E. CRESCENT DR.

N00°49'57"E

9EC E. CRESCENT DR.

EXISTING R/W

EXISTING R/W

BP: 8+16.17

PROJECT NO: 1500-47-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN	SHEET 497	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_47_71_050205_PN.DWG PLOT DATE : 8/15/2017 11:01 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 050205 pn PLOT SCALE : 1in:40 ft_XREF

WISDOT/CADDS SHEET 44

NOTE:
INLET PROTECTION REQUIRED FOR
ALL INLET LOCATIONS. SEE MISCELLANEOUS
QUANTITIES FOR LOCATIONS AND TYPE.

CONCRETE DRIVEWAY
6-INCH REQ'D.

BURIED TELEPHONE
(APPROXIMATE LOCATION)

CONCRETE DRIVEWAY
6-INCH REQ'D.

BURIED GAS LINE
(APPROXIMATE LOCATION)

REMOVE FENCE
STA. 69+50-STA. 70+00

EXISTING R/W

RECONSTRUCT INLET
INLET ADJUSTMENT CASTING REQ'D
REPLACE CONCRETE CURB
3-FOOT EACH SIDE OF INLET

INLET ADJUSTMENT
CASTING REQ'D.

INLET ADJUSTMENT
CASTING REQ'D.

BASE PATCHING
CONCRETE REQ'D.

BASE PATCHING
CONCRETE REQ'D.

BURIED ELECTRIC
(APPROXIMATE LOCATION)

USH 10/STH 42

BURIED TELEPHONE
(APPROXIMATE LOCATION)

REMOVE FENCE
STA. 69+25-STA. 70+00

END PROJECT 1500-47-71
STA. 70+00.00EB

FLEETWOOD DR.

67WB 68WB 69WB 70WB 71WB 72WB 73WB

67EB 68EB 69EB 70EB 71EB 72EB 73EB

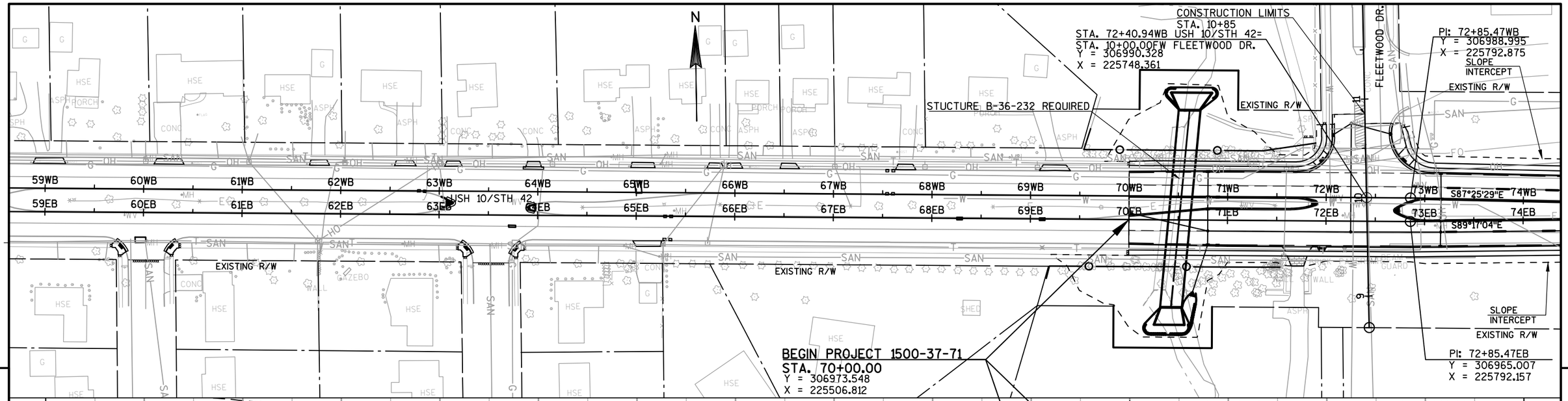
5

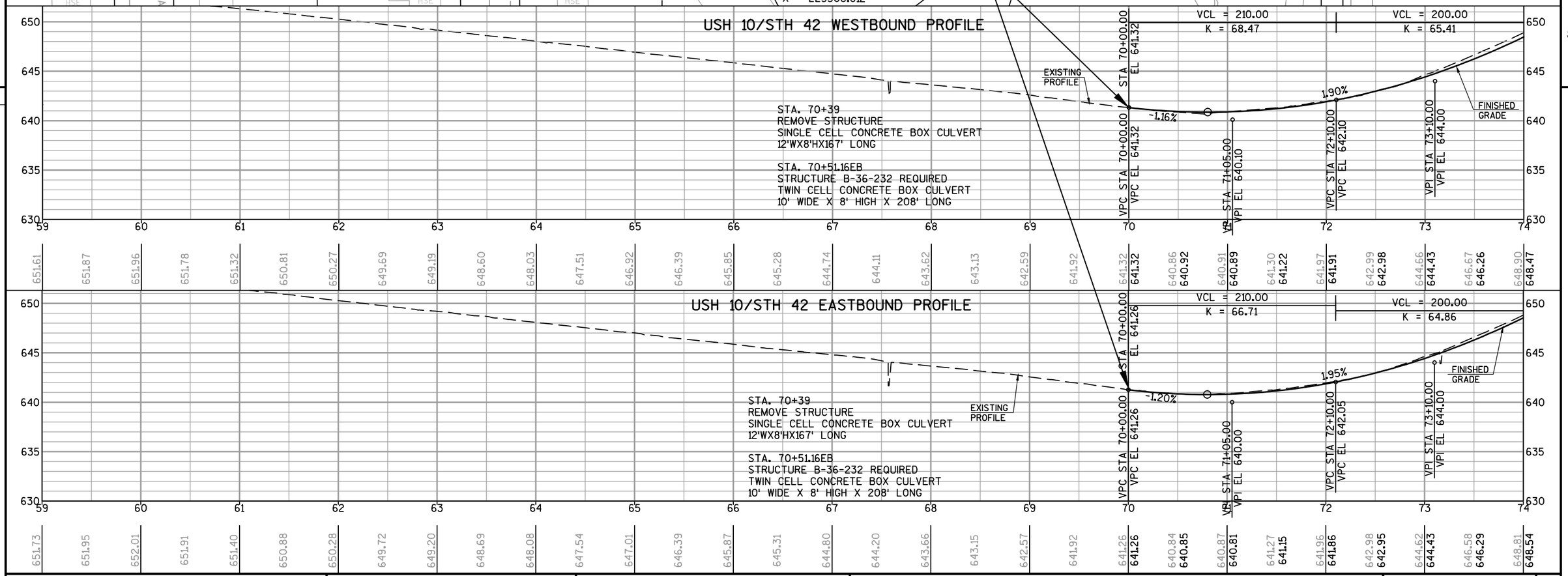
5

N

PROJECT NO: 1500-47-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_47_71_050206_PN.DWG PLOT DATE : 8/15/2017 11:05 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 050206 pn PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 44





5 5

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE:	SHEET 499	E

PI: 79+01.63WB
Y = 306961.311
X = 226408.414

EXISTING R/W

STA. 83+81.89
STRUCTURE B-36-29
4 SPAN 48" PRESTRESSED GIRDER BRIDGE

DECK REPLACEMENT REQUIRED

SLOPE INTERCEPT

N

USH 10/STH 42

74WB 75WB S87°25'29"E 76WB 77WB 78WB 79WB 80WB 81WB S88°16'16"E 82WB 83WB 84WB 85WB 86WB 87WB 88WB 89WB

74EB 75EB 76EB 77EB 78EB 79EB 80EB 81EB S88°16'16"E 82EB 83EB 84EB 85EB 86EB 87EB 88EB 89EB

S89°17'04"E

EXISTING R/W

PI: 79+01.66EB
Y = 306957.314
X = 226408.234

SLOPE INTERCEPT

WISCONSIN CENTRAL LTD.

PLAYGROUND

TREES

SHED

HSE

5

5

VPI STA 80+16.33
VPI EL 679.56

VPI STA 85+37.21
VPI EL 675.81

EXISTING PROFILE

FINISHED GRADE

-0.72%

VPT STA 82+91.33
VPT EL 677.58

VPC STA 83+77.21
VPC EL 676.96

VPT STA 86+97.21
VPT EL 667.86

-4.97%

5.03%

VPC STA 77+41.33
VPC EL 665.72

VCL = 200.00
K = 64.86

VCL = 550.00
K = 95.57

VCL = 320.00
K = 75.29

STA. 83+81.89
STRUCTURE B-36-29
4 SPAN 48" PRESTRESSED GIRDER BRIDGE

DECK REPLACEMENT REQUIRED

VPC STA 74+10.00
VPC EL 649.03

| | | |

PI: 79+01.63WB
Y = 306961.311
X = 226408.414

STA. 83+81.89
STRUCTURE B-36-29
4 SPAN 48" PRESTRESSED GIRDER BRIDGE

DECK REPLACEMENT REQUIRED

N

EXISTING R/W

SLOPE INTERCEPT

USH 10/STH 42

74WB 75WB S87°25'29"E 76WB 77WB 78WB 79WB 80WB 81WB S88°16'15"E 82WB 83WB 84WB 85WB 86WB 87WB 88WB 89WB

74EB 75EB 76EB S89°17'04"E S88°16'16"E

TREES

WISCONSIN CENTRAL LTD.

PLAYGROUND

SHED

HSE

PI: 79+01.66EB
Y = 306957.313
X = 226408.292

SLOPE INTERCEPT

5

5

VPI STA 80+16.31
VPI EL 679.56

VPI STA 85+37.19
VPI EL 675.81

EXISTING PROFILE

FINISHED GRADE

-0.72%

VPC STA 82+91.31
VPT EL 677.58

VPC STA 83+77.19
VPC EL 676.96

STA. 83+81.89
STRUCTURE B-36-29
4 SPAN 48" PRESTRESSED GIRDER BRIDGE

DECK REPLACEMENT REQUIRED

VCL = 200.00
K = 65.41

STA 76+00.00
EL 658.38

5.03%

VPC STA 77+41.31
VPC EL 665.57

4.96%

VCL = 550.00
K = 94.70

VCL = 320.00
K = 75.20

VPT STA 86+97.19
VPT EL 667.85

-4.98%

STA 88+00.00
EL 662.74

-5.00%

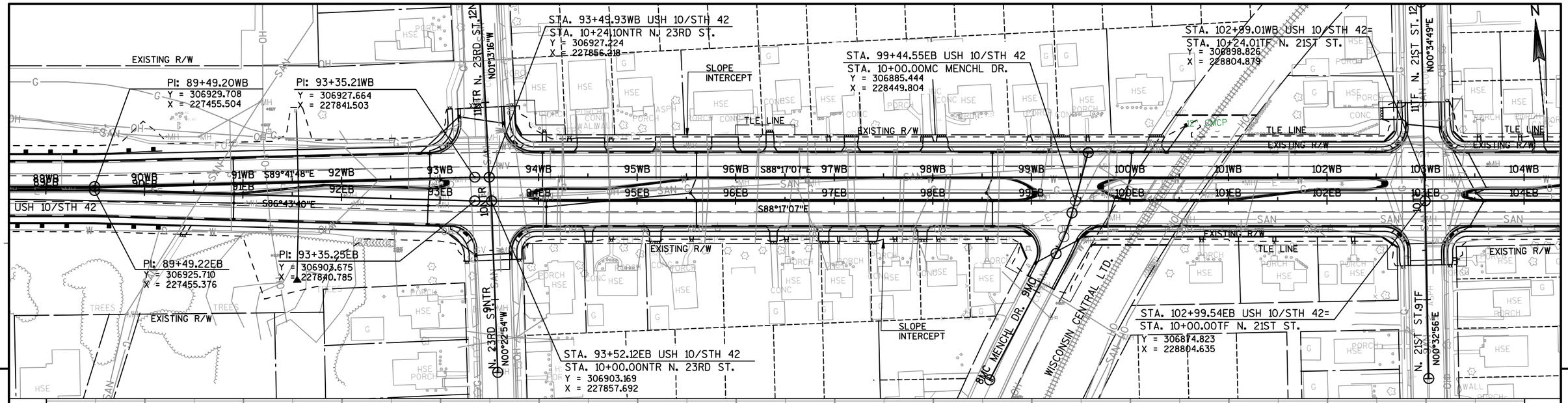
VCL = 100.00
K = 13.48

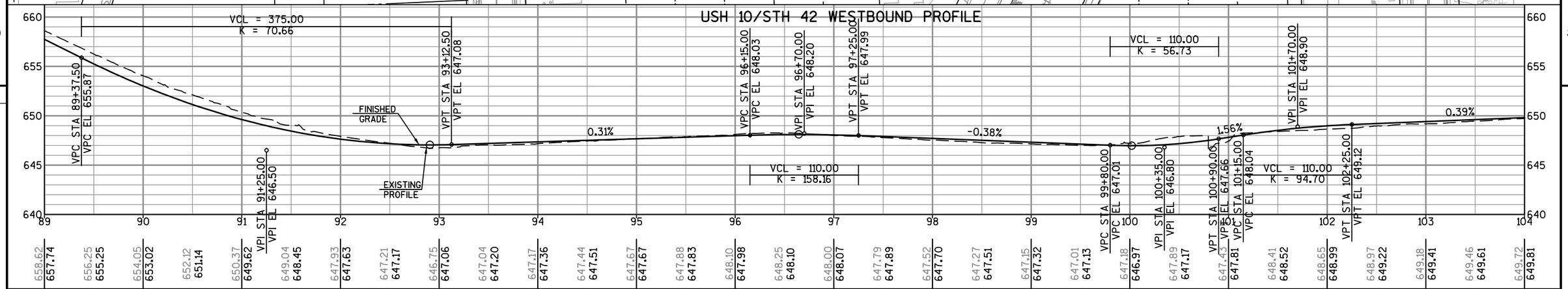
STA 74+00.00
VPT EL 648.96

685 680 675 670 665 660 655 650 645

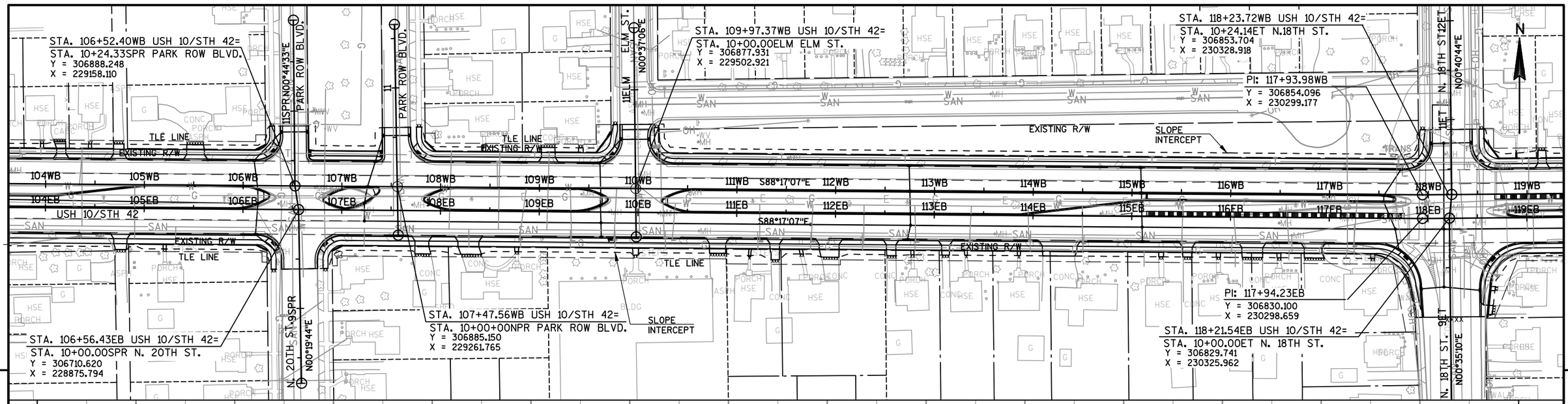
74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89

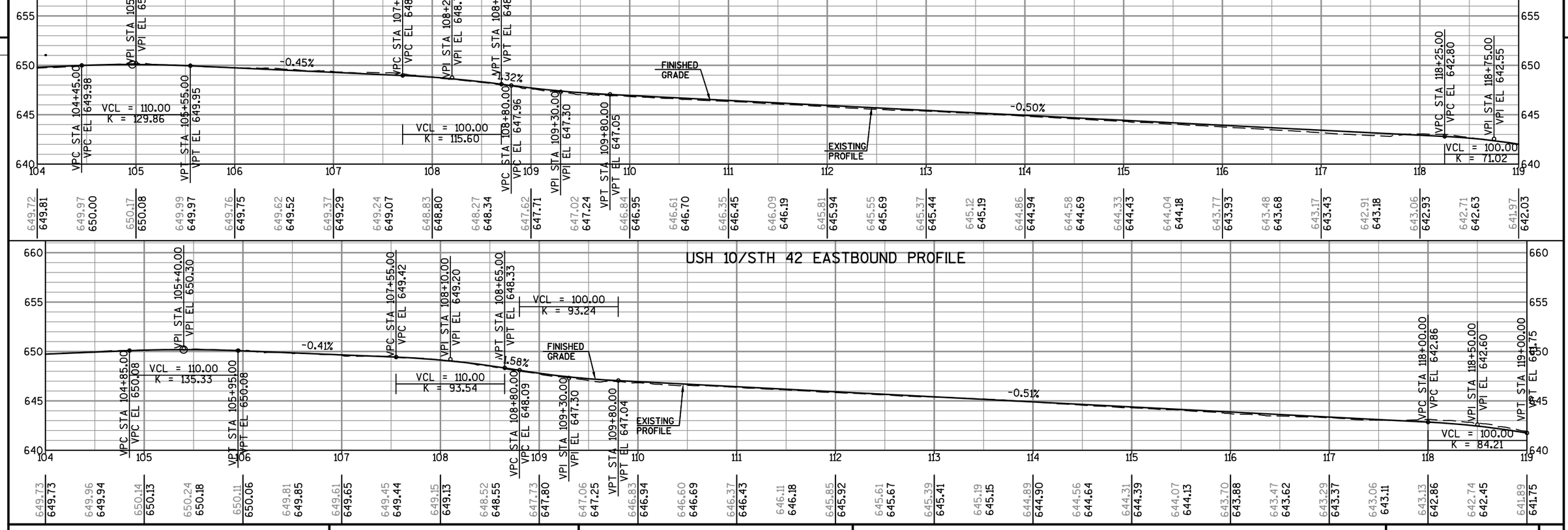
| | | |





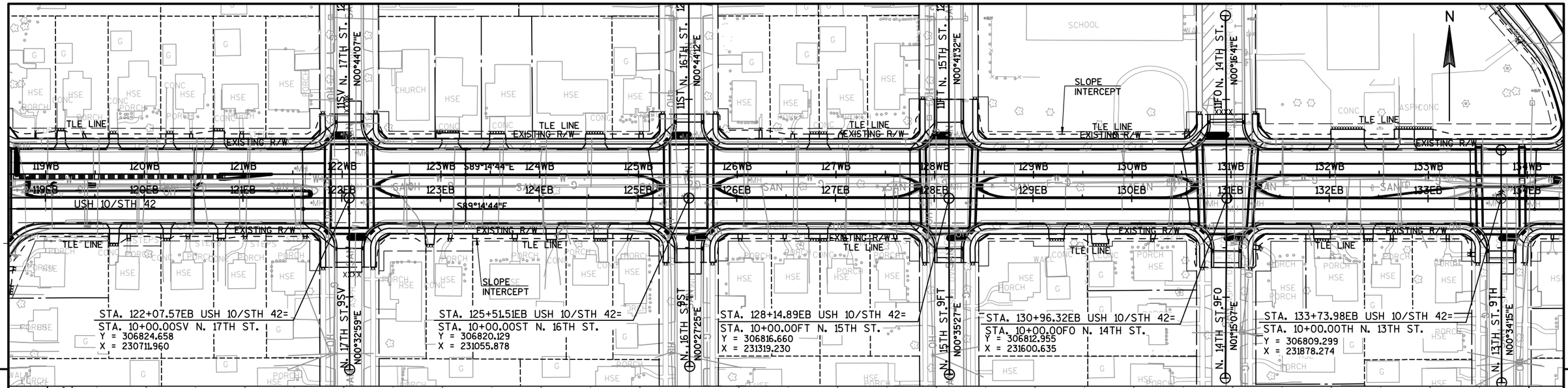
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE:	SHEET 502	E

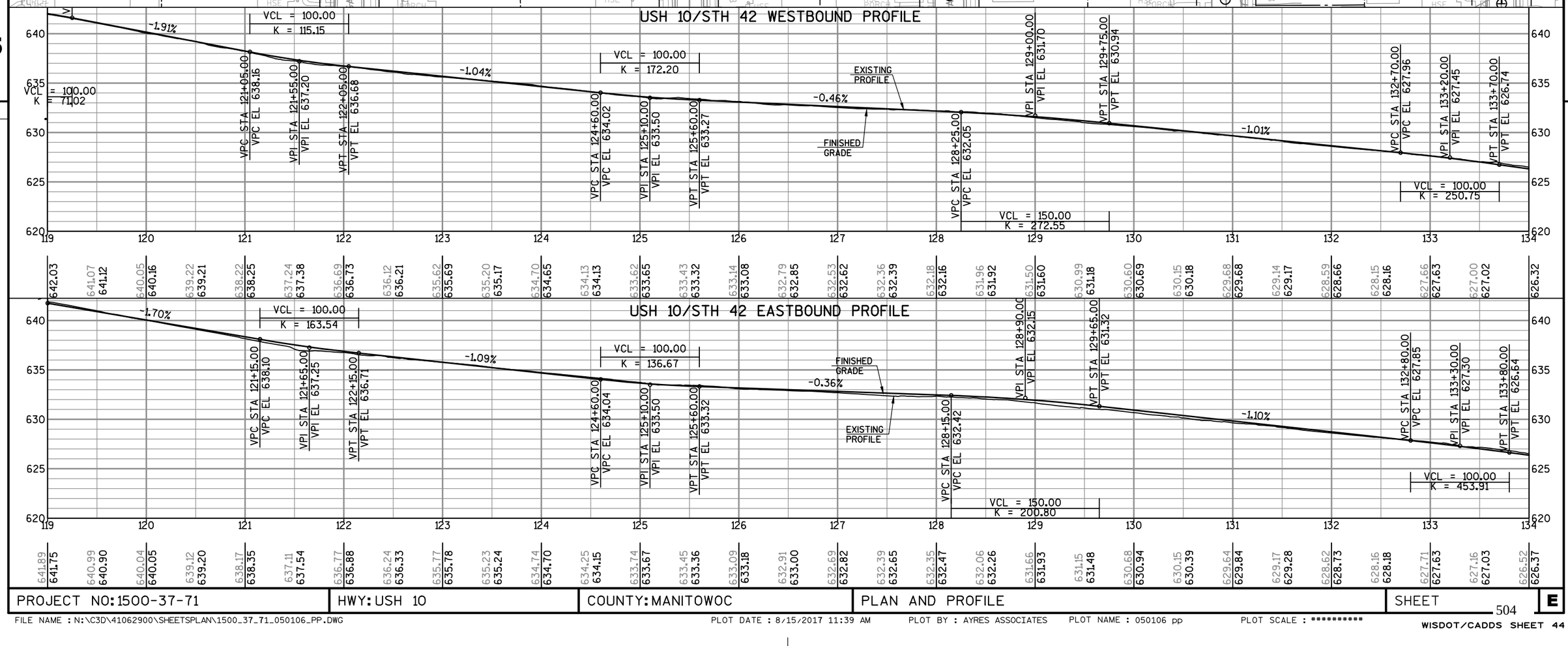




PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE:	SHEET E

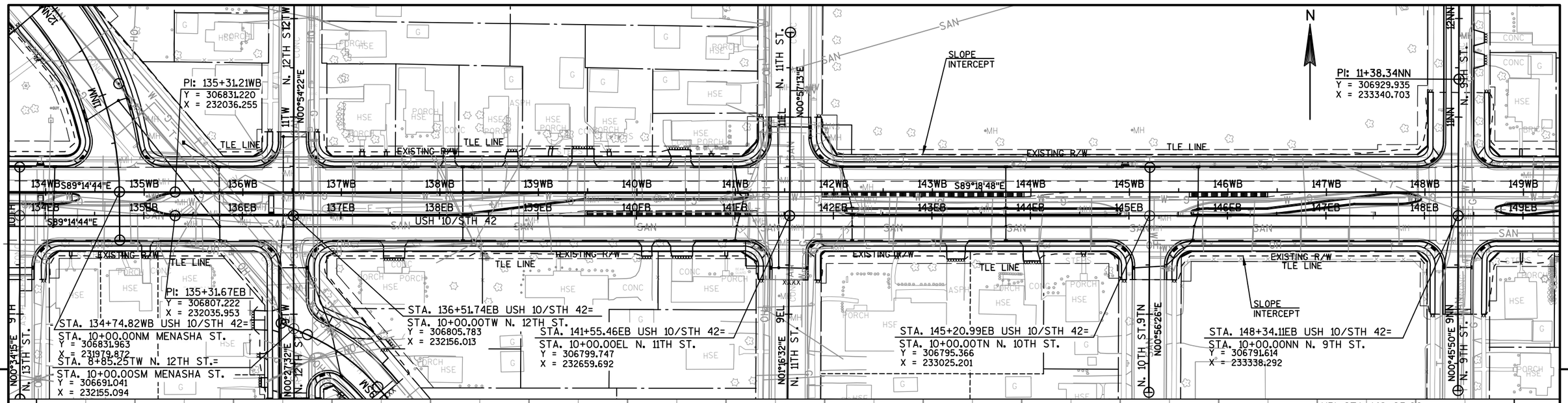
FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_050105_PP.DWG
PLOT DATE : 8/15/2017 11:33 AM
PLOT BY : AYRES ASSOCIATES
PLOT NAME : 050105 pp
PLOT SCALE : [illegible] XREF
WISDOT/CADDS SHEET 44

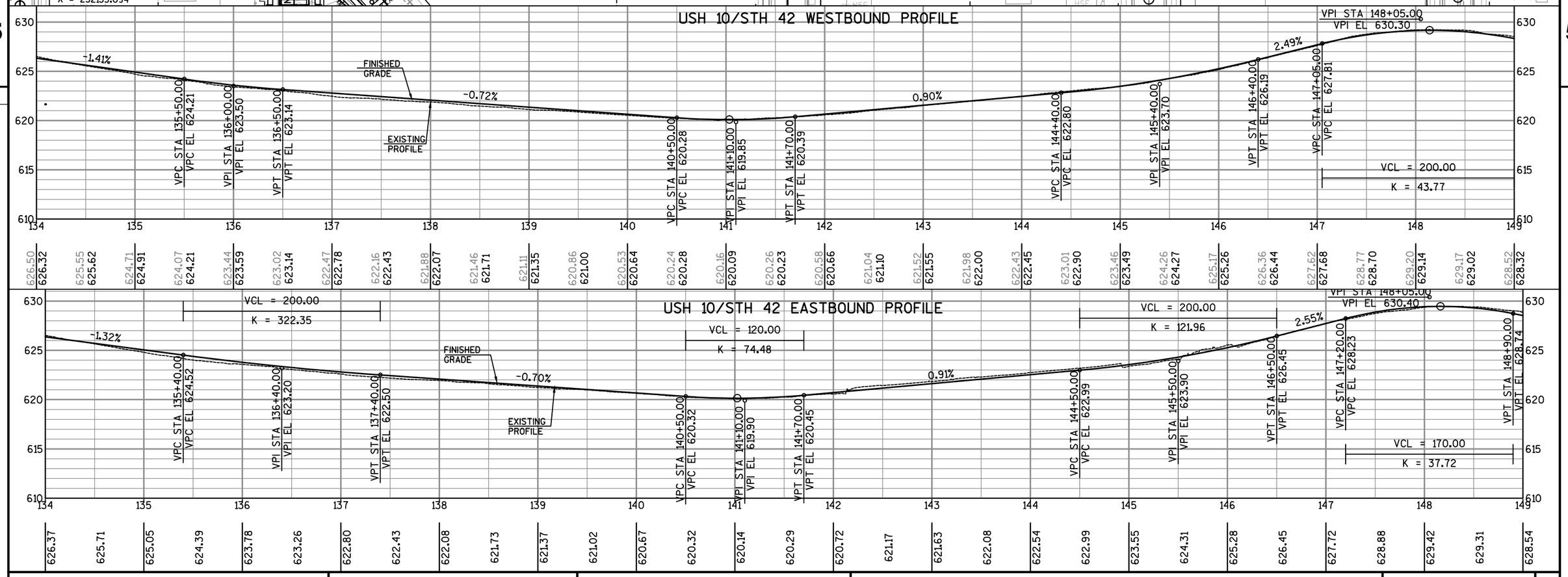




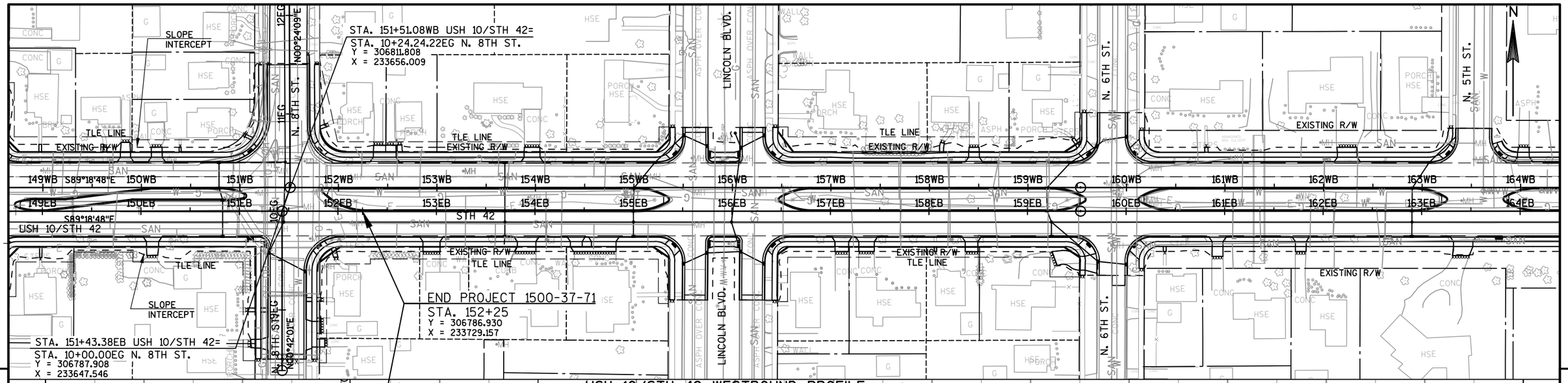
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE	SHEET	E

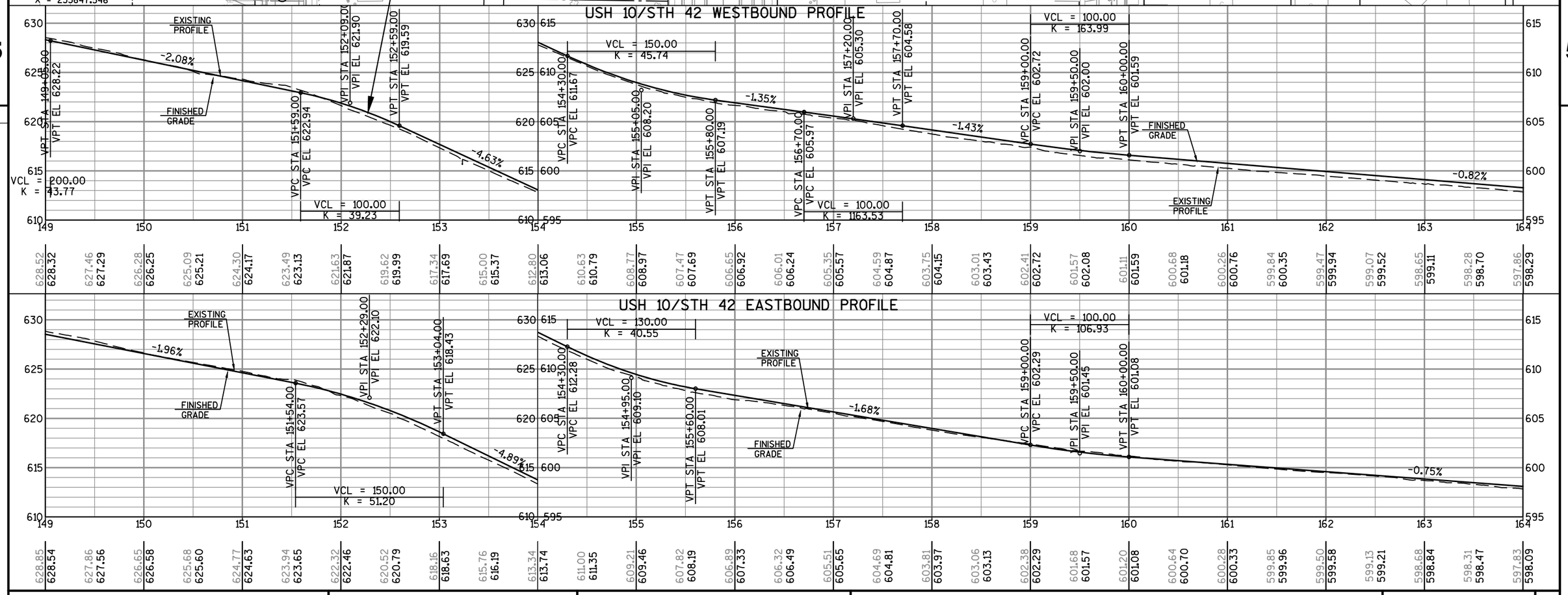
FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_050106_PP.DWG PLOT DATE : 8/15/2017 11:39 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 050106 pp PLOT SCALE : ********** WISDOT/CADDS SHEET 44





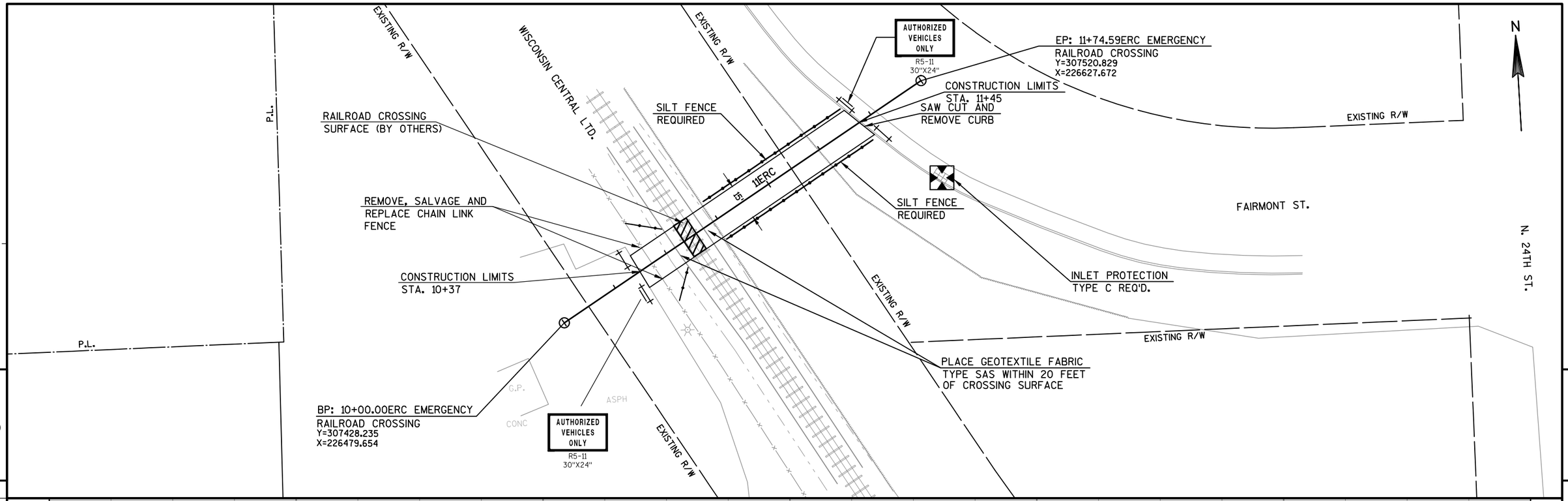
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE	SHEET 505 E

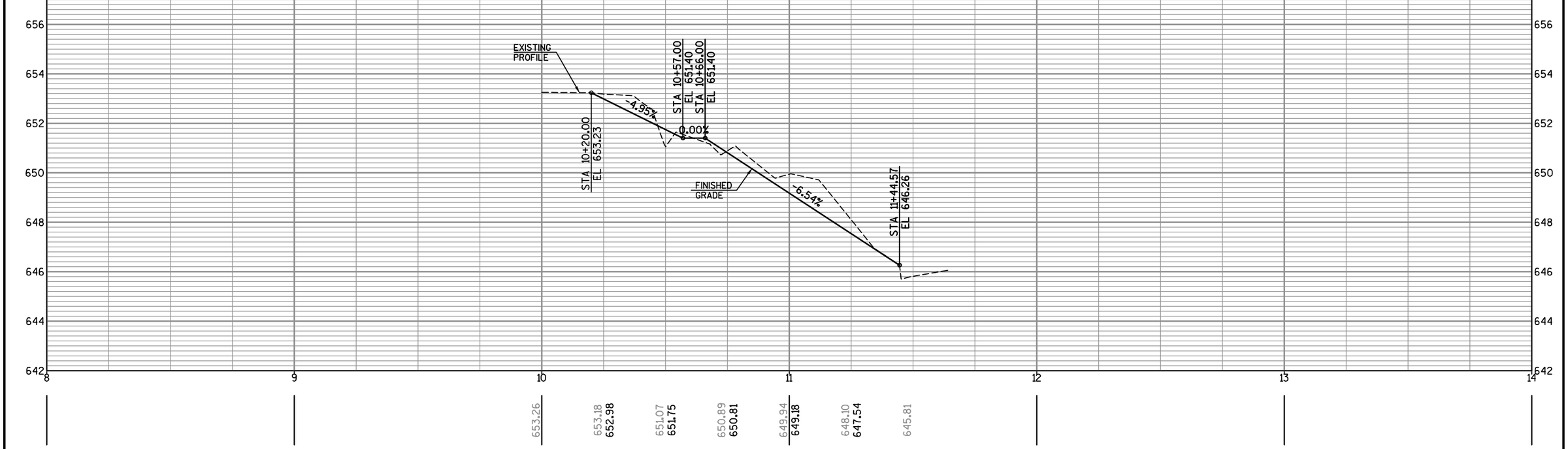




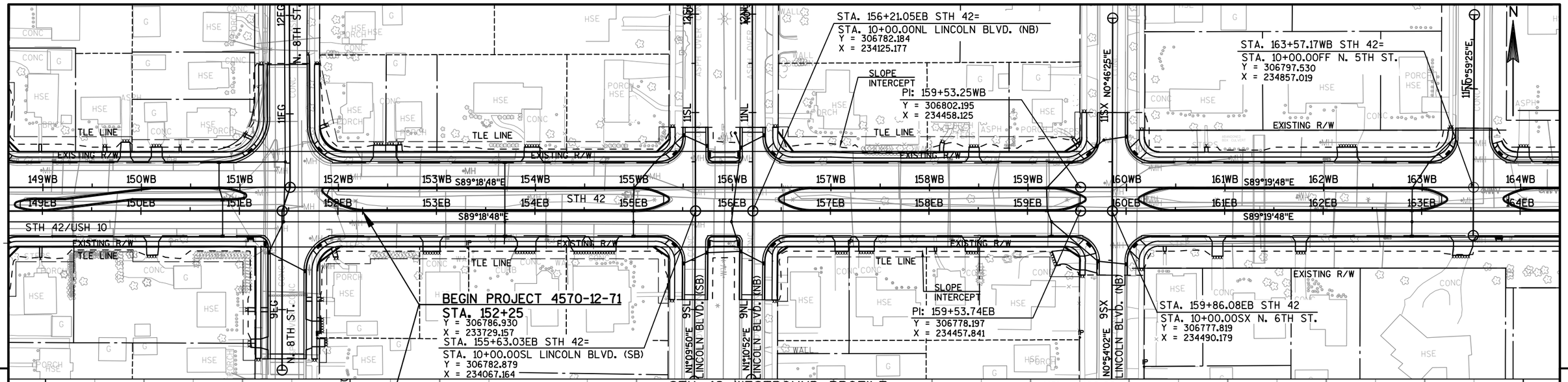
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE	SHEET E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\1500_37_71_050108_PP.DWG PLOT DATE : 8/15/2017 11:51 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : 050108 pp PLOT SCALE : *********

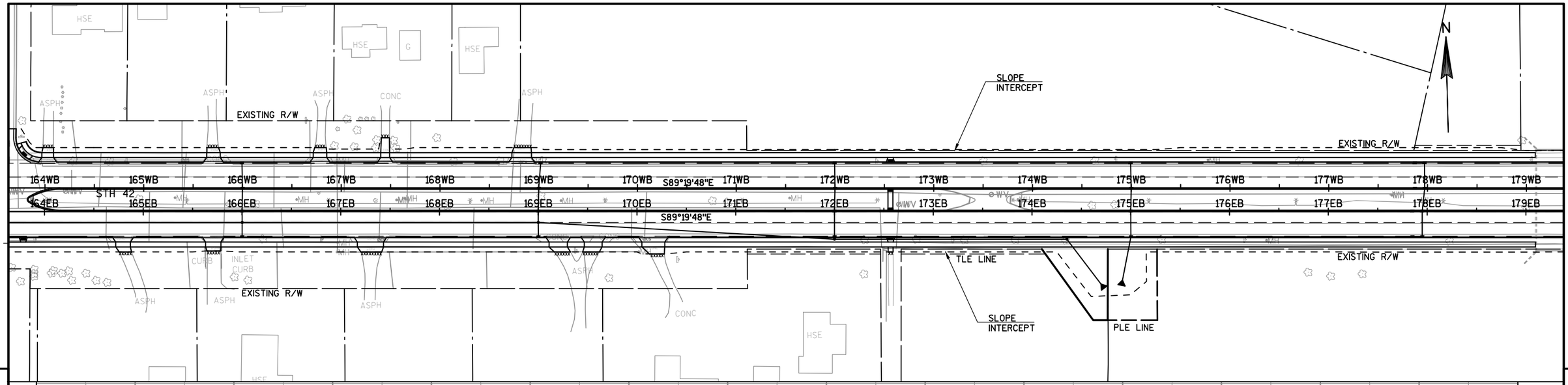


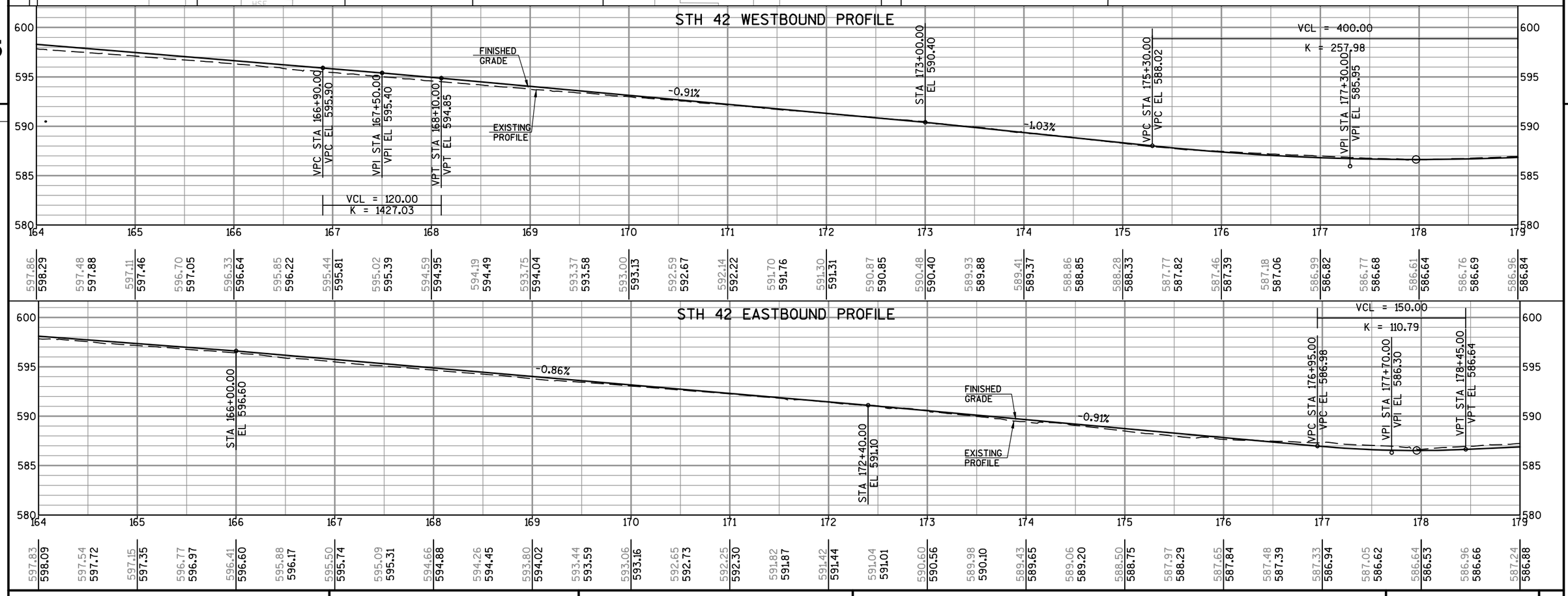


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: EMERGENCY VEHICLE RAILROAD CROSSING	SHEET 507	E



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN AND PROFILE	SHEET 508 E



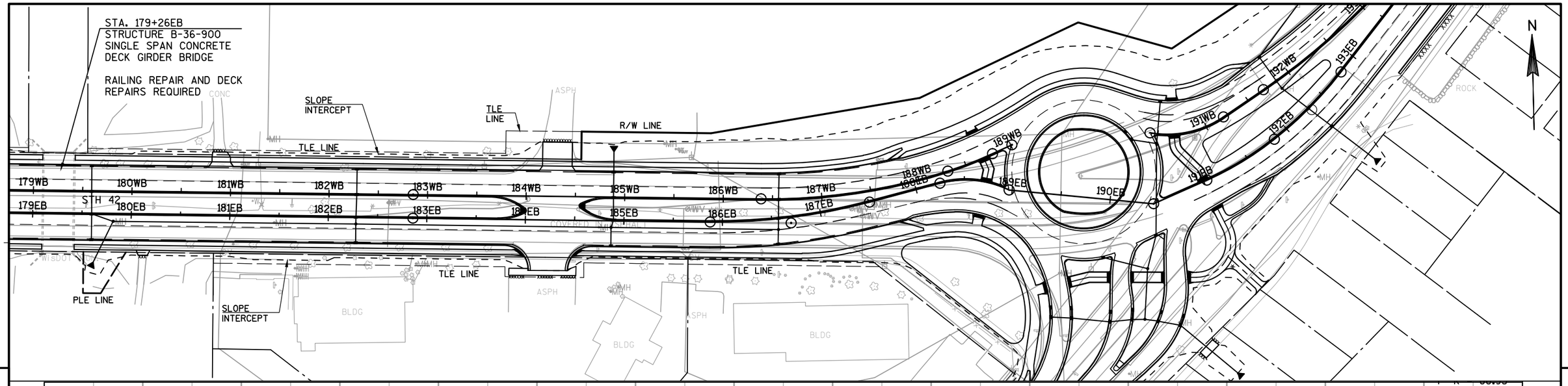


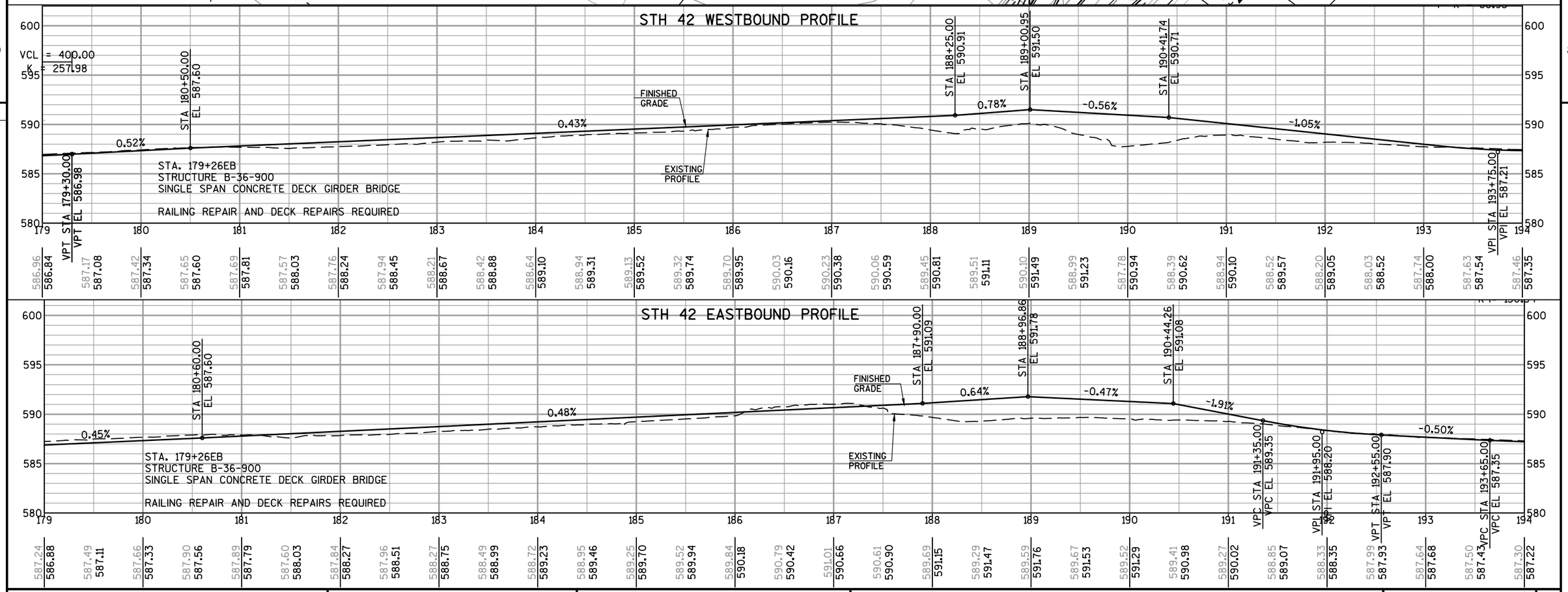
5

5

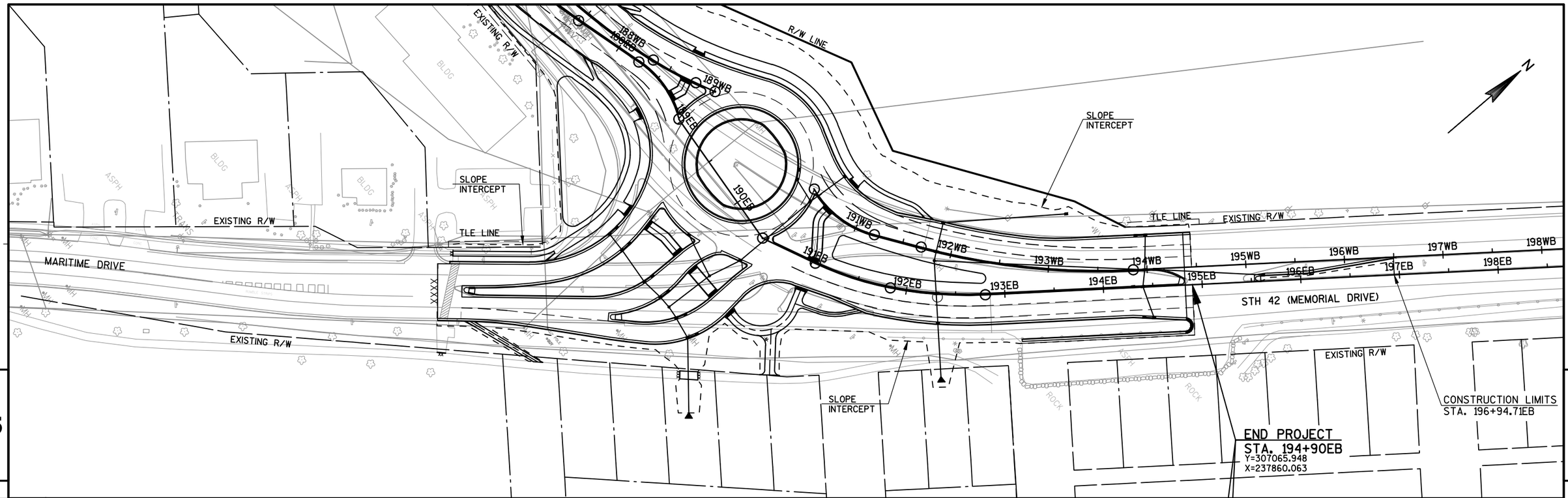
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN AND PROFILE	SHEET	E

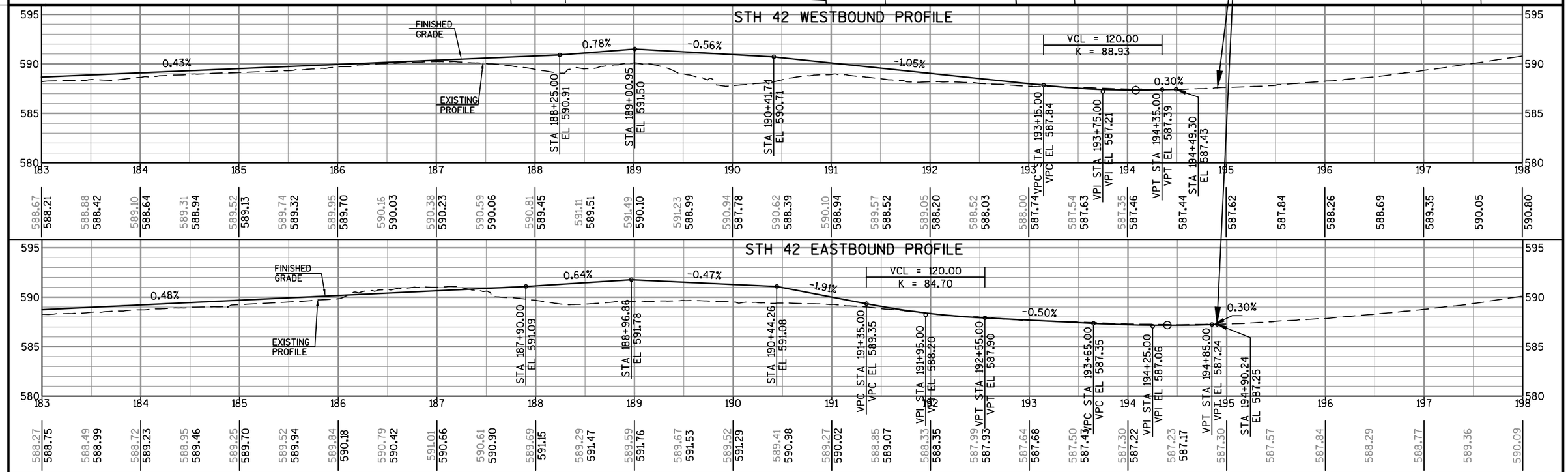
FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_050102_PP.DWG PLOT DATE : 8/15/2017 12:09 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : 050102 pp PLOT SCALE : **********
WISDOT/CADDS SHEET 44





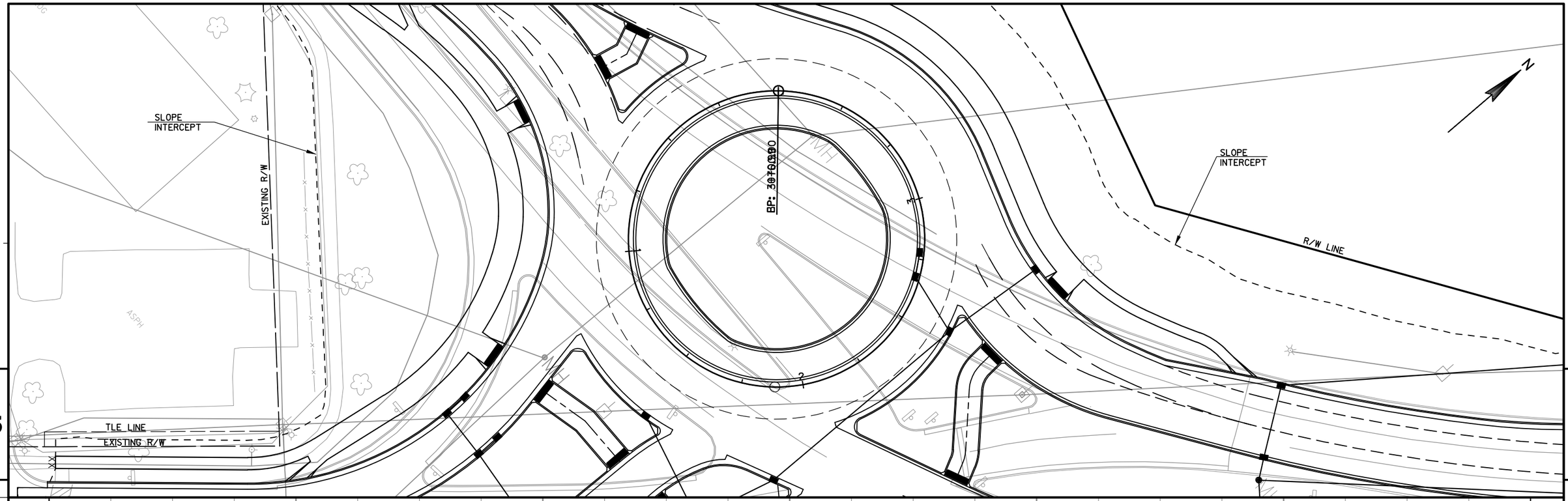
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN AND PROFILE	SHEET 510	E

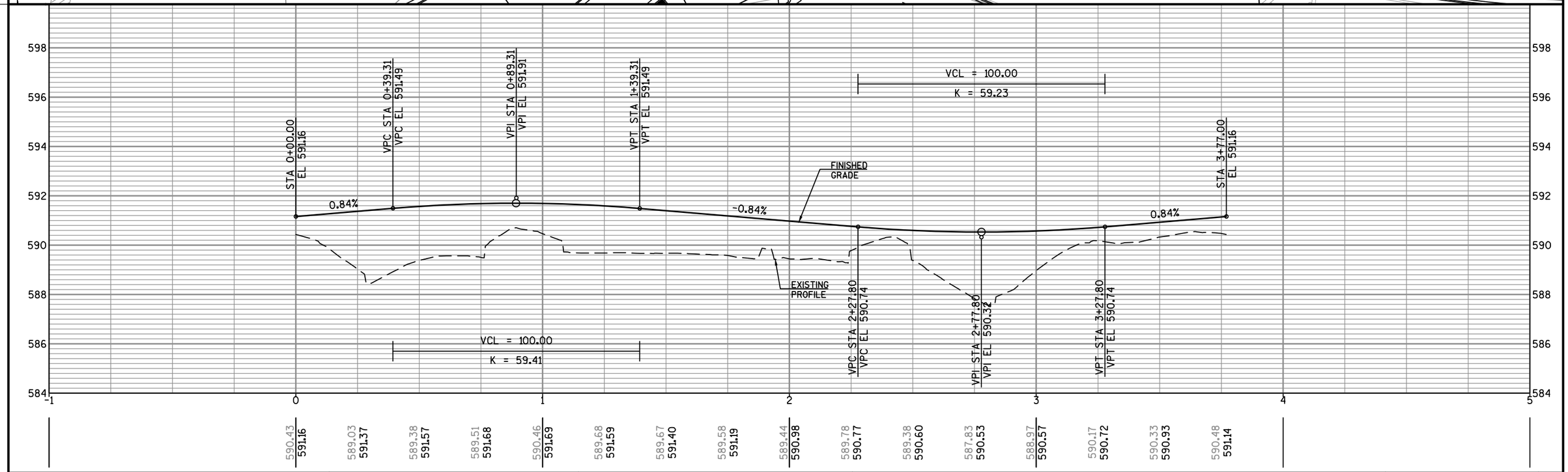




PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN AND PROFILE: STH 42	SHEET E

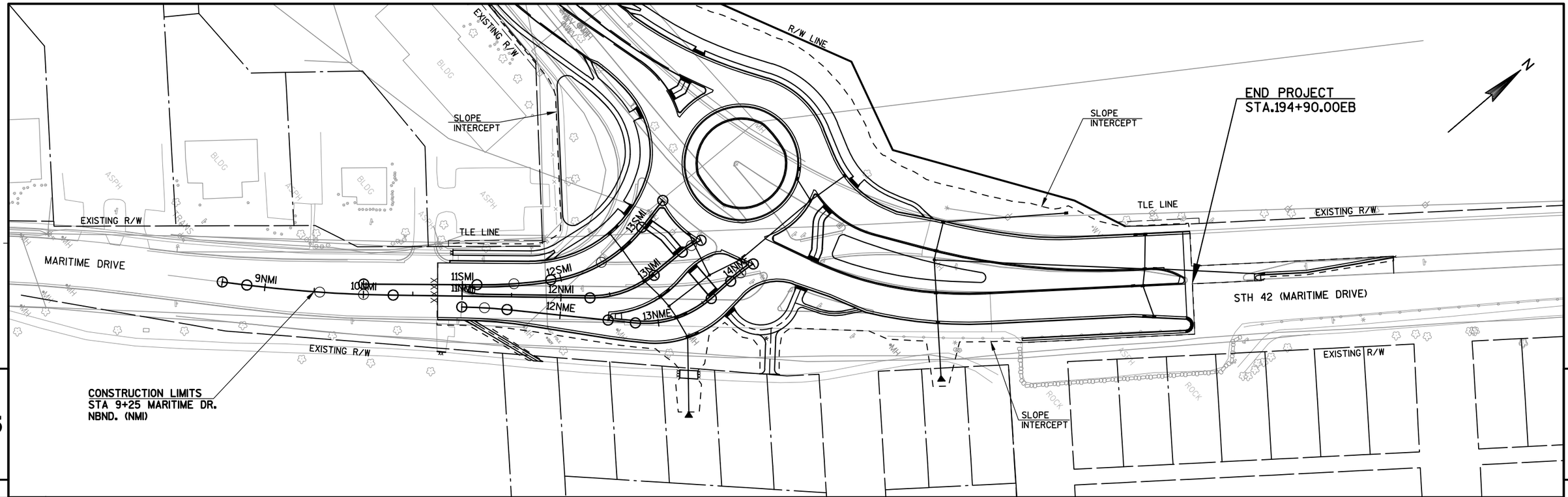
FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_050104_PP.DWG PLOT DATE : 8/15/2017 12:20 PM PLOT BY : AYRES ASSOCIATES PLOT NAME :050104 pp PLOT SCALE : 1in:100ft_XREF

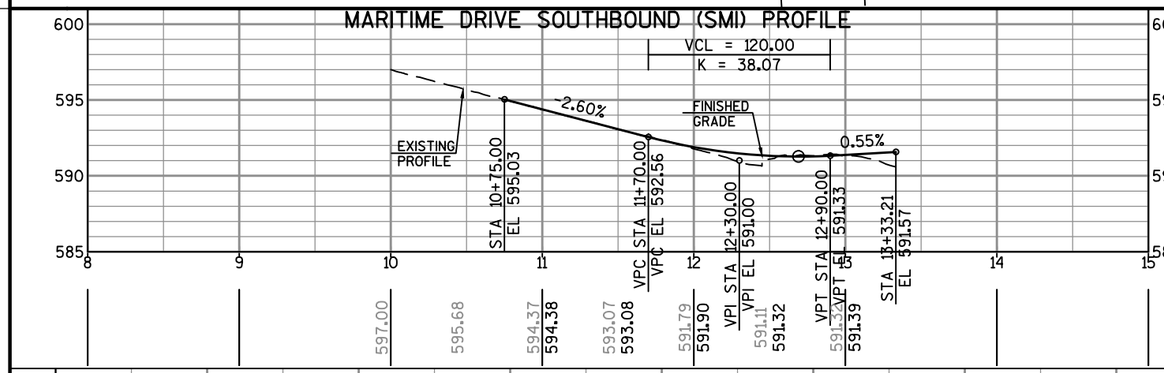


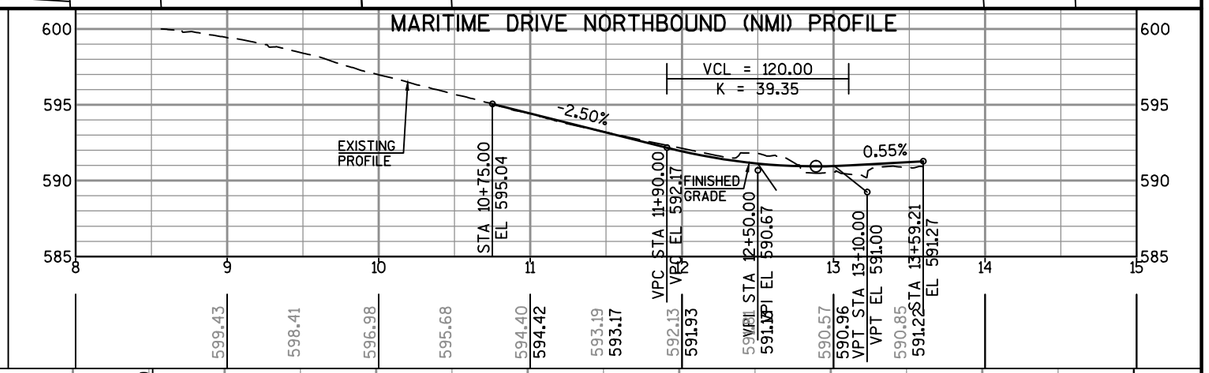


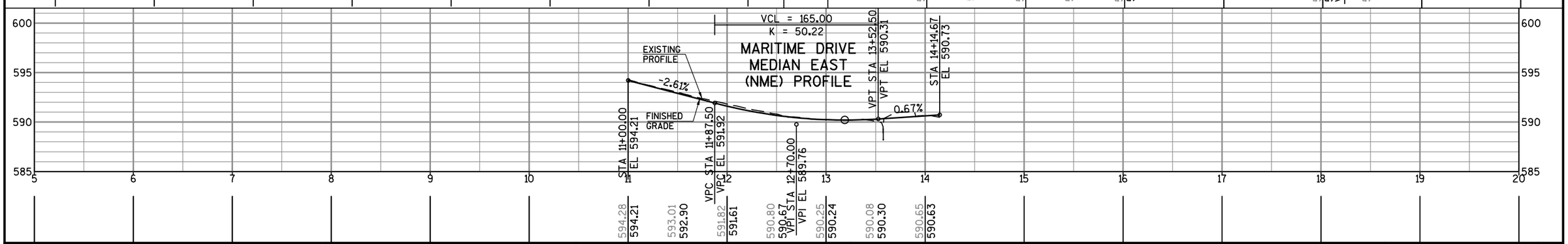
PROJECT NO: 4570-14-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN AND PROFILE: ROUNDABOUT CIRCLE	SHEET	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_050105_PP.DWG PLOT DATE : 8/15/2017 12:25 PM PLOT BY : AYRES ASSOCIATES PLOT NAME :050105 pp PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 44





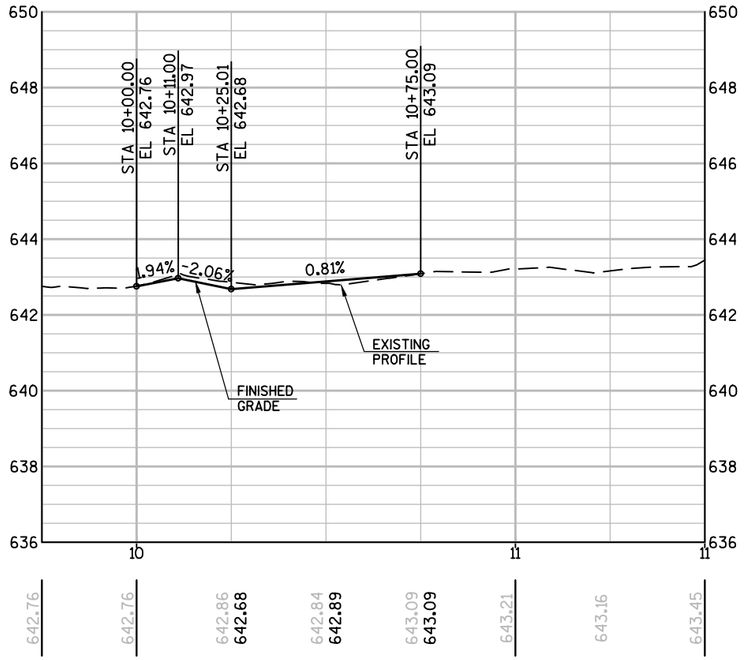




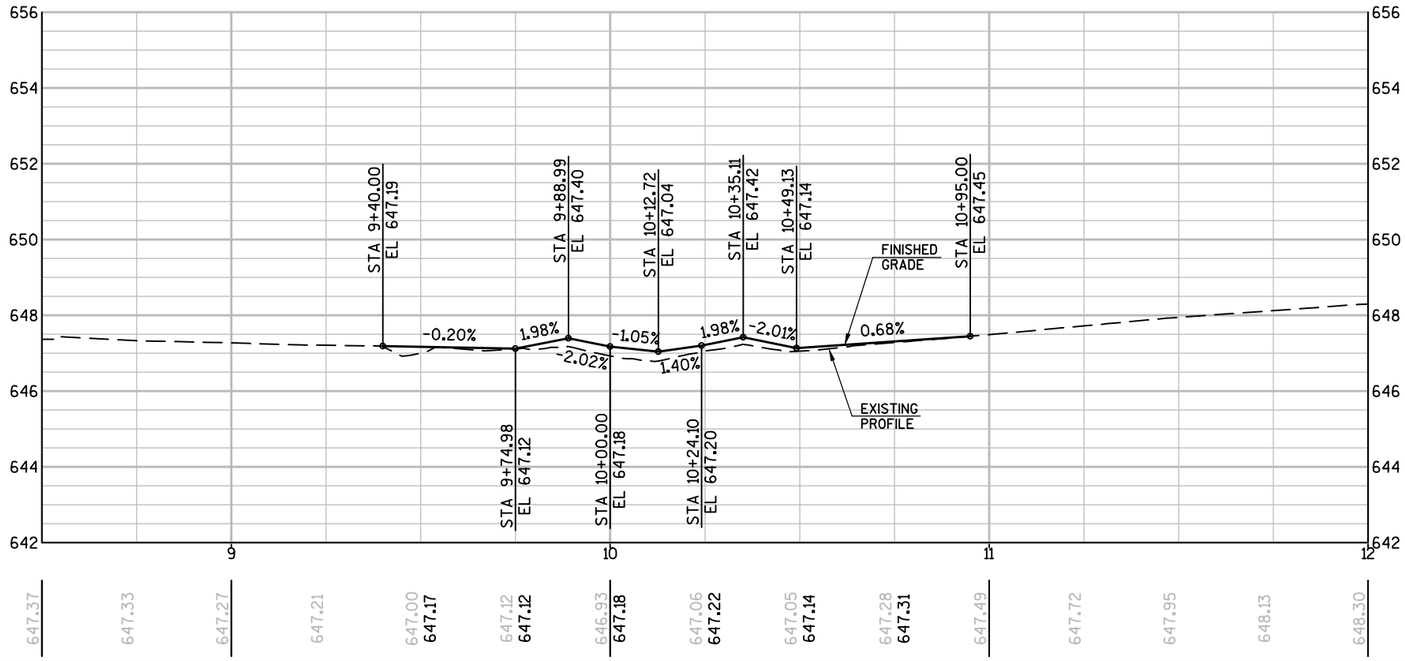
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PLAN AND PROFILE: STH 42	SHEET E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\4570_12_71_050106_PP.DWG PLOT DATE : 8/15/2017 12:31 PM PLOT BY : AYRES ASSOCIATES PLOT NAME :050106 pp PLOT SCALE : 1in:100ft_XREF
WISDOT/CADDS SHEET 44

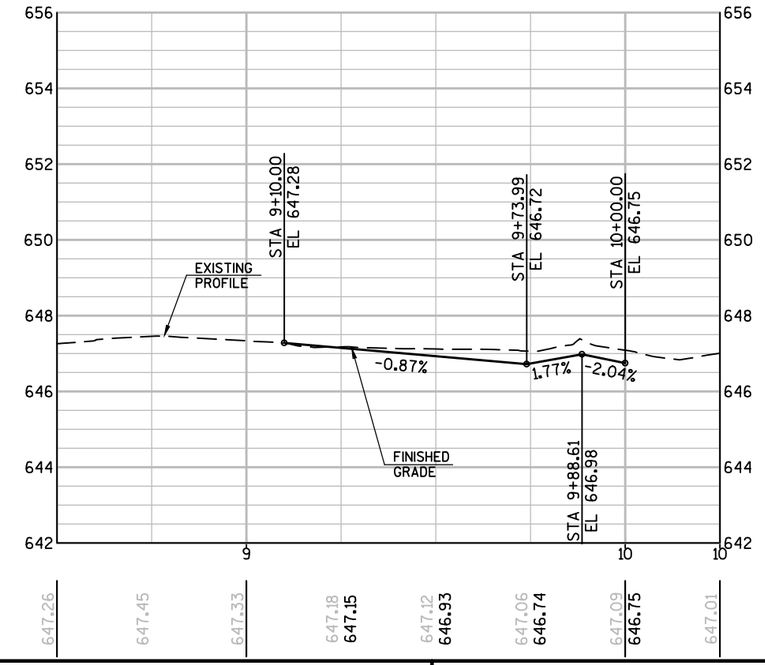
FLEETWOOD DR. PROFILE



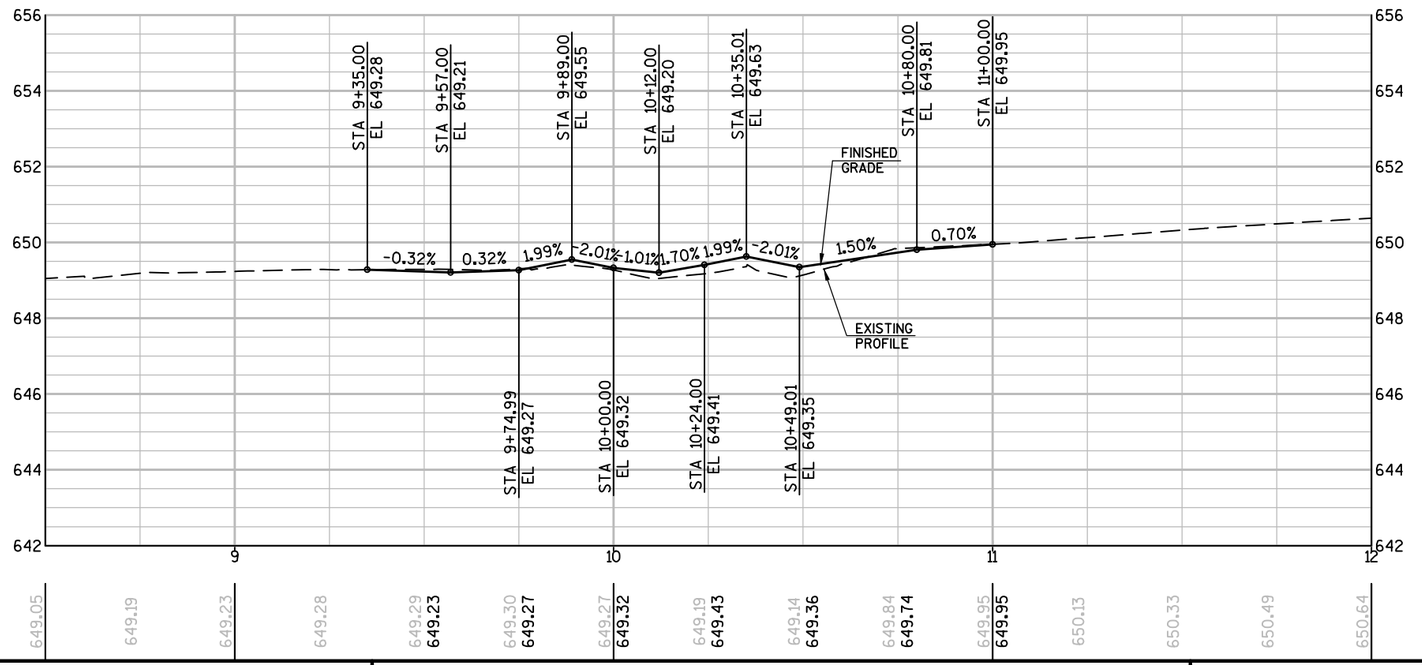
N. 23RD STREET PROFILE



MENCHL DR. PROFILE

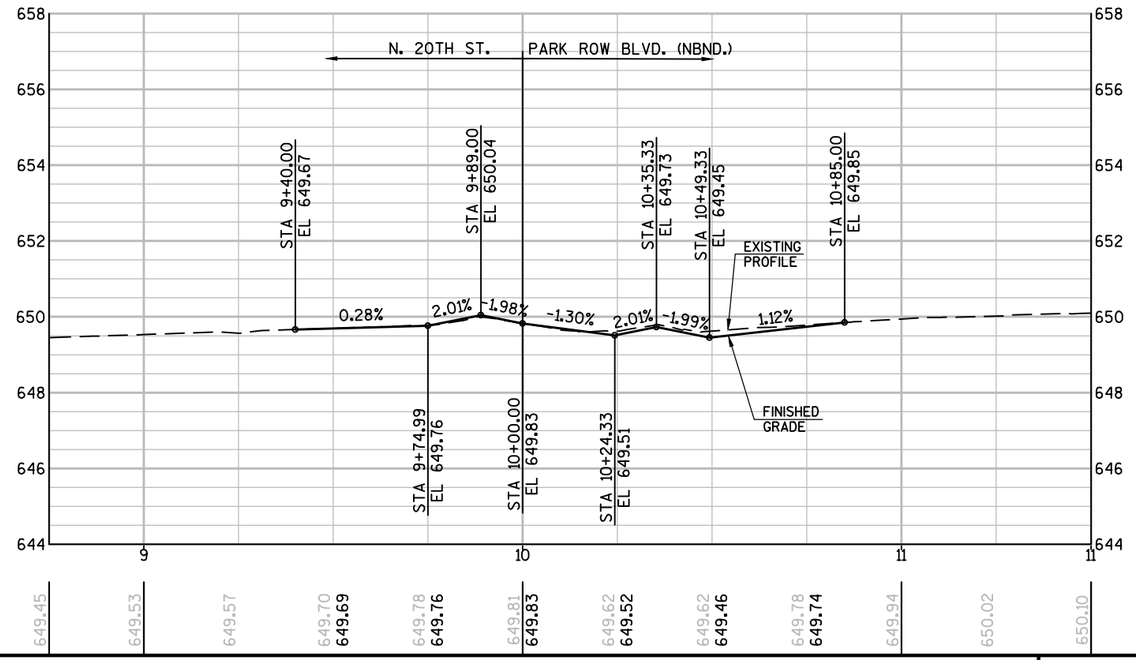


N. 21ST STREET PROFILE

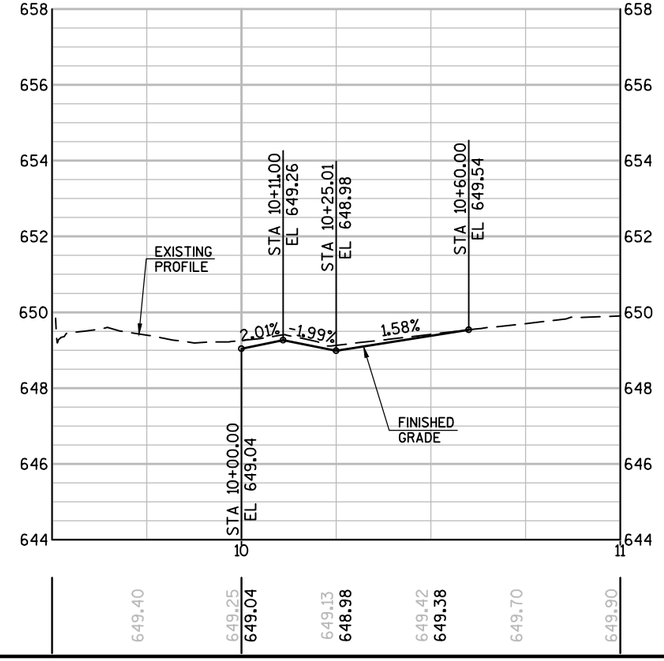


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	SIDE STREET PROFILES	SHEET 514	E

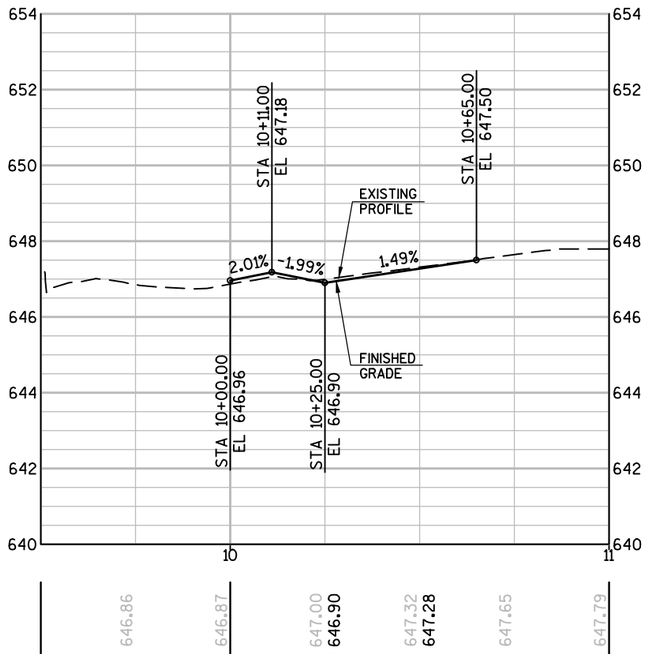
N. 20TH ST.-PARK ROW BLVD. (NBND.) PROFILE



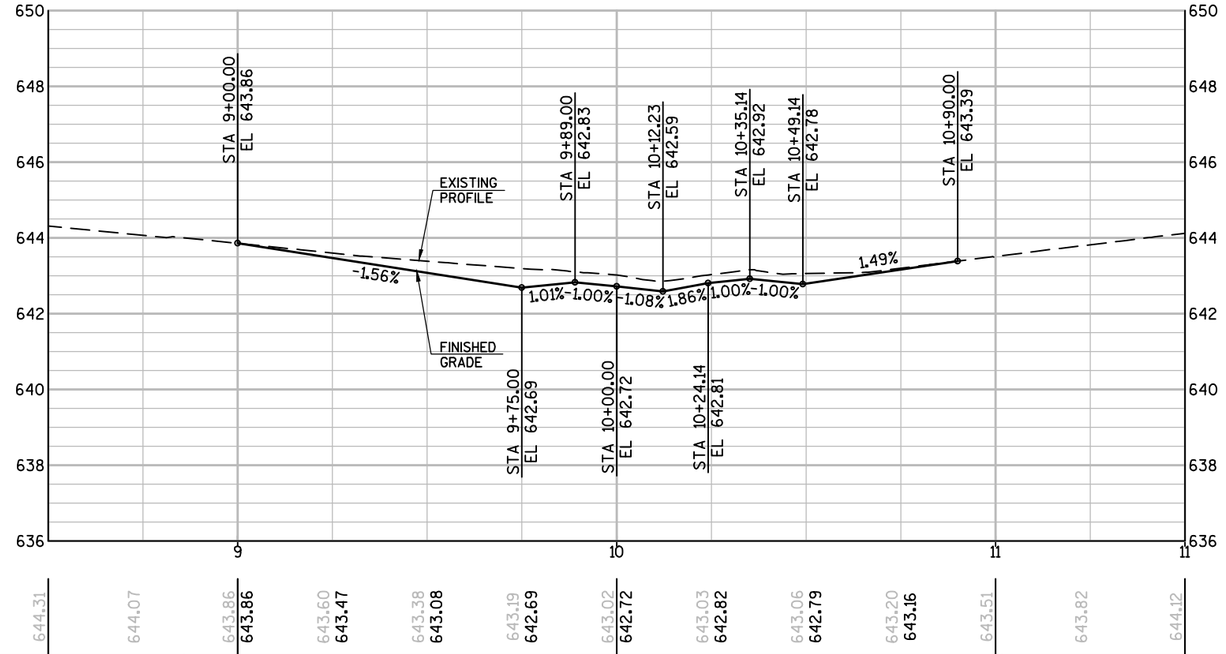
PARK ROW BLVD. (SBND.) PROFILE



ELM ST. PROFILE

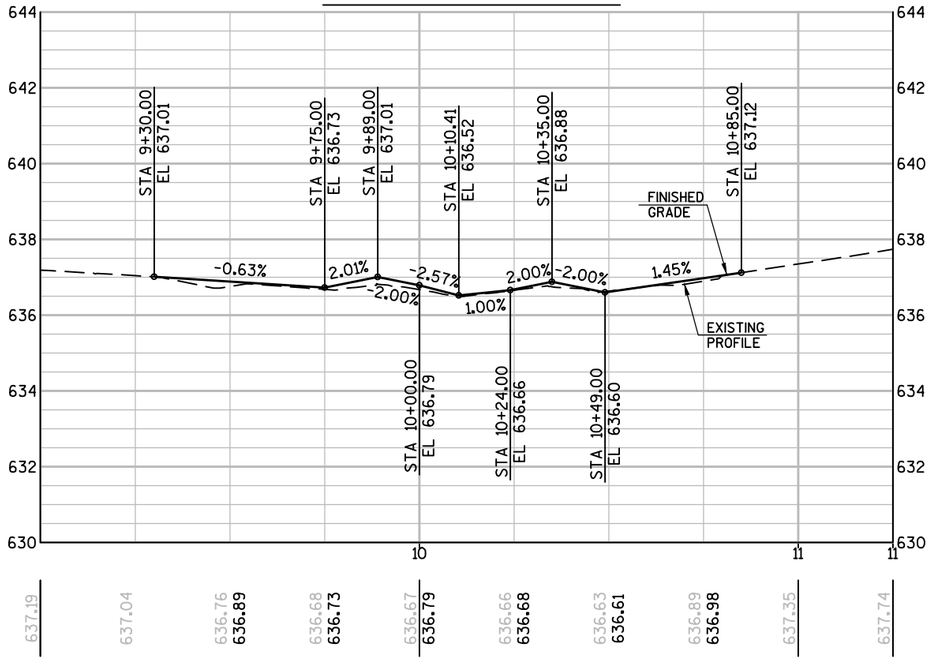


N. 18TH ST. PROFILE

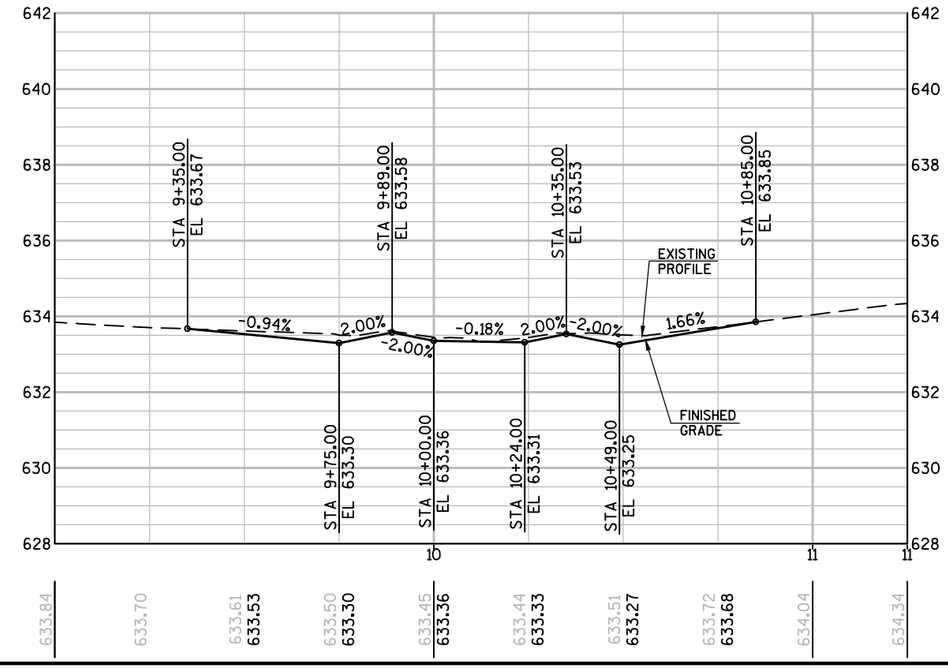


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	SIDE STREET PROFILES	SHEET 515 E

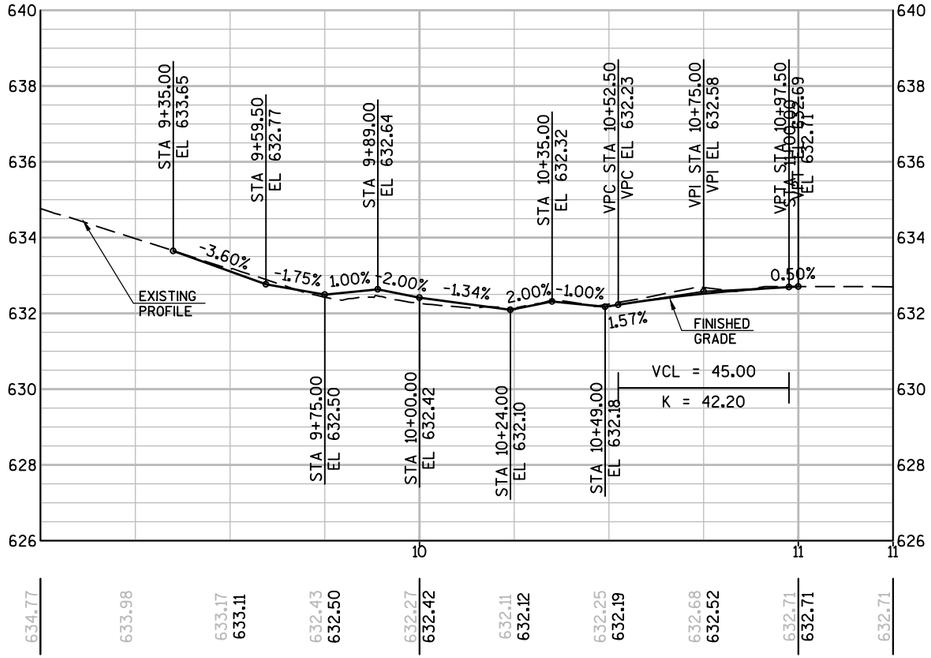
N. 17TH ST. PROFILE



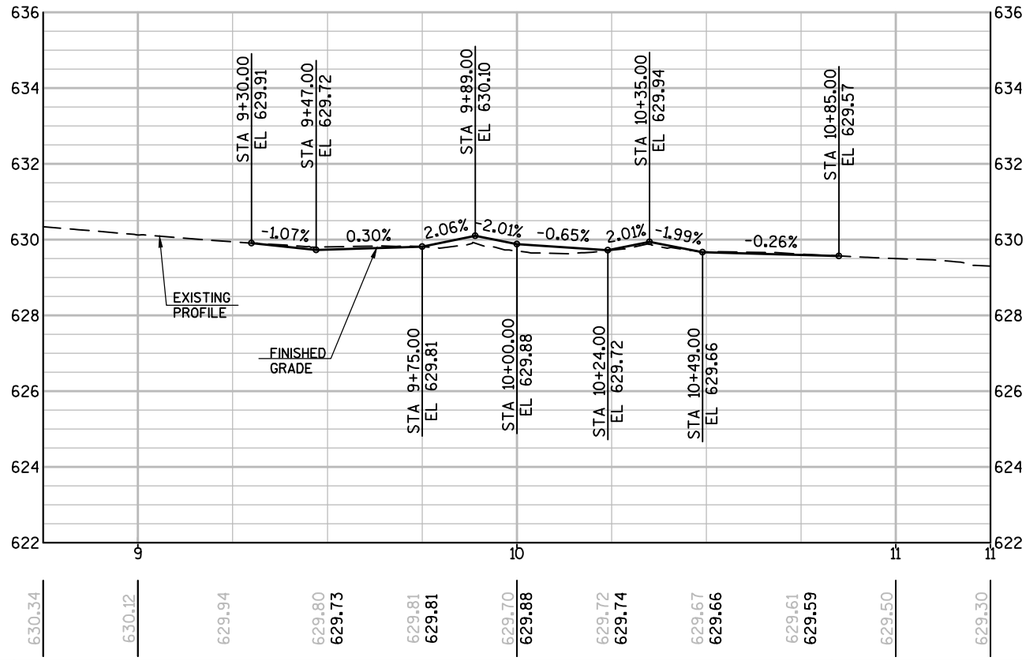
N. 16TH ST. PROFILE



N. 15TH ST. PROFILE

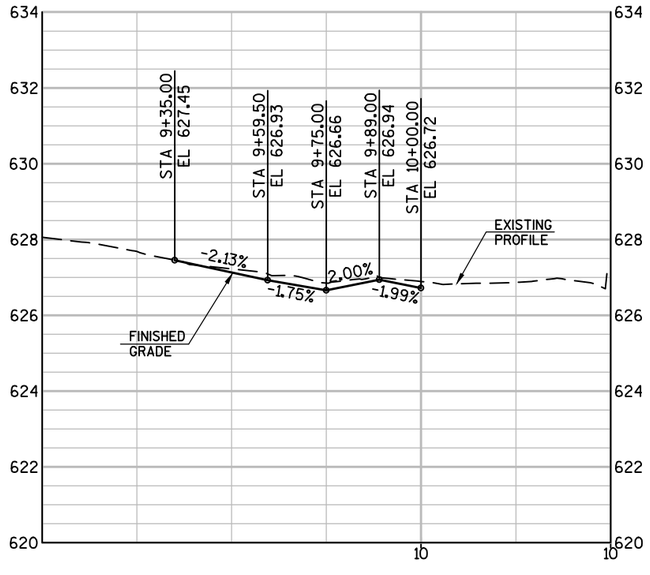


N. 14TH ST. PROFILE

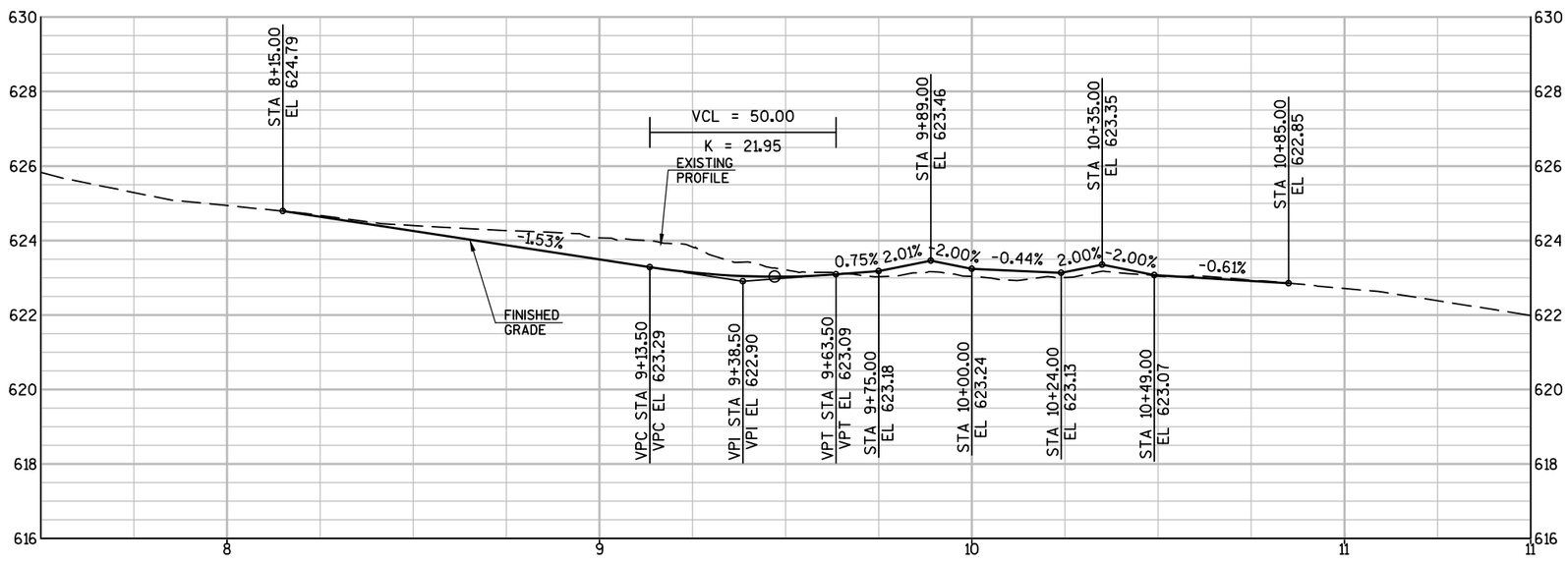


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	SIDE STREET PROFILES	SHEET 516 E

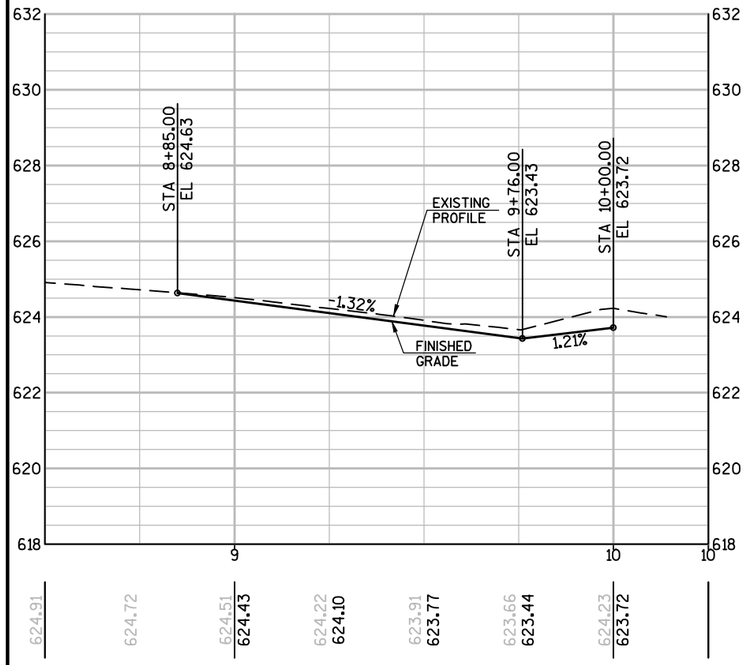
N. 13TH ST. PROFILE



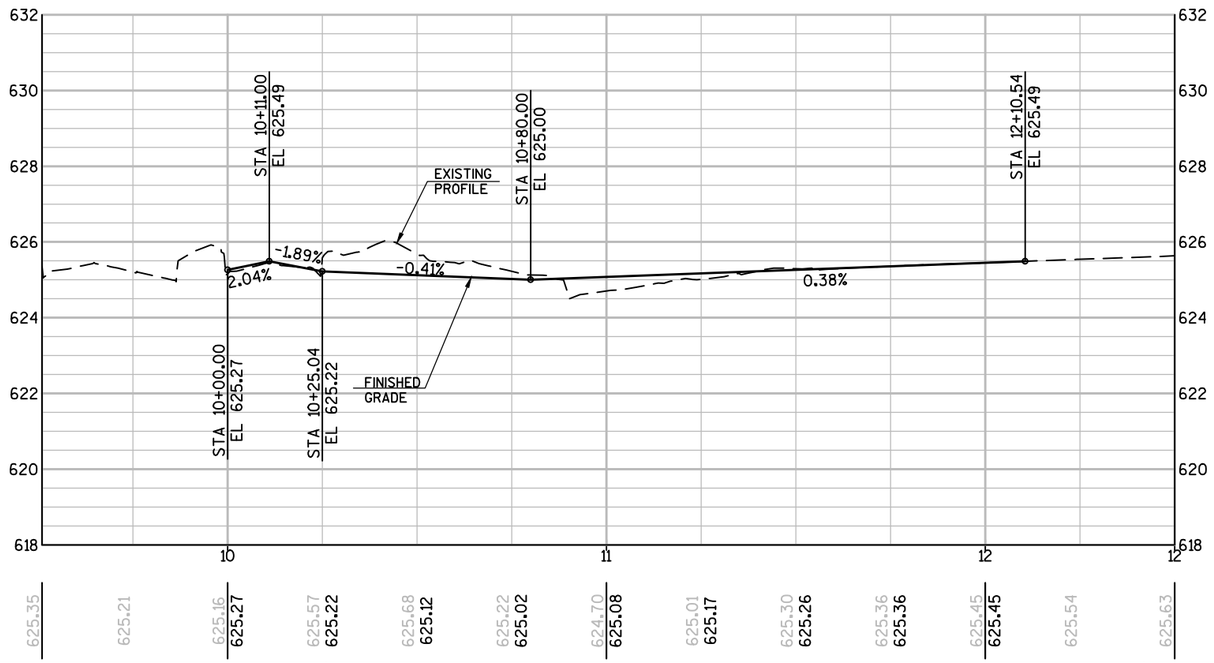
N. 12TH ST. PROFILE



MENASHA AVE. (SOUTH)

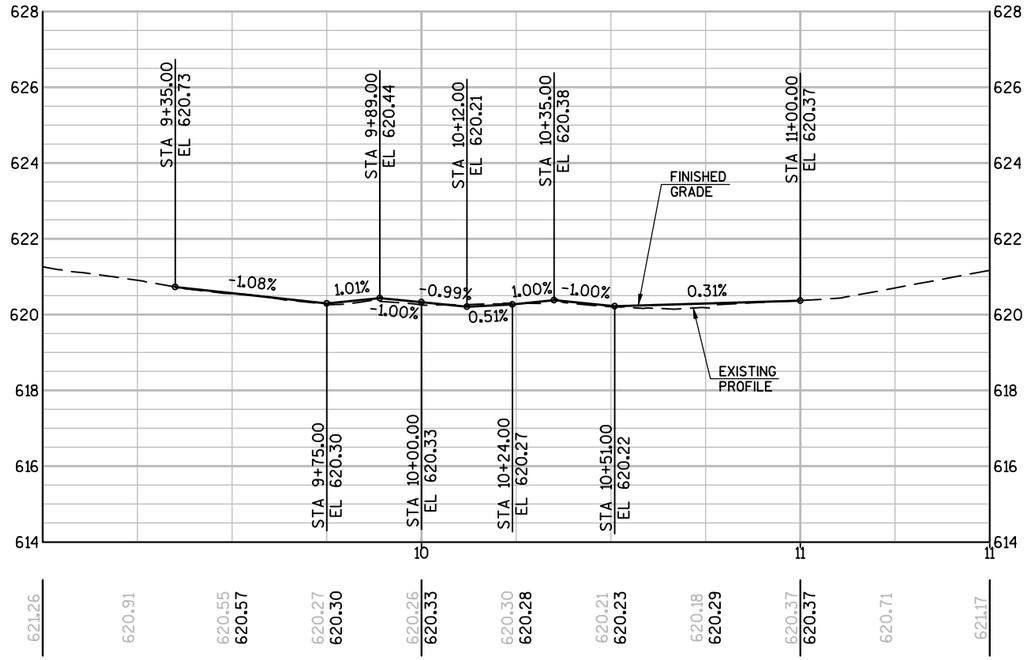


MENASHA AVE. (NORTH)

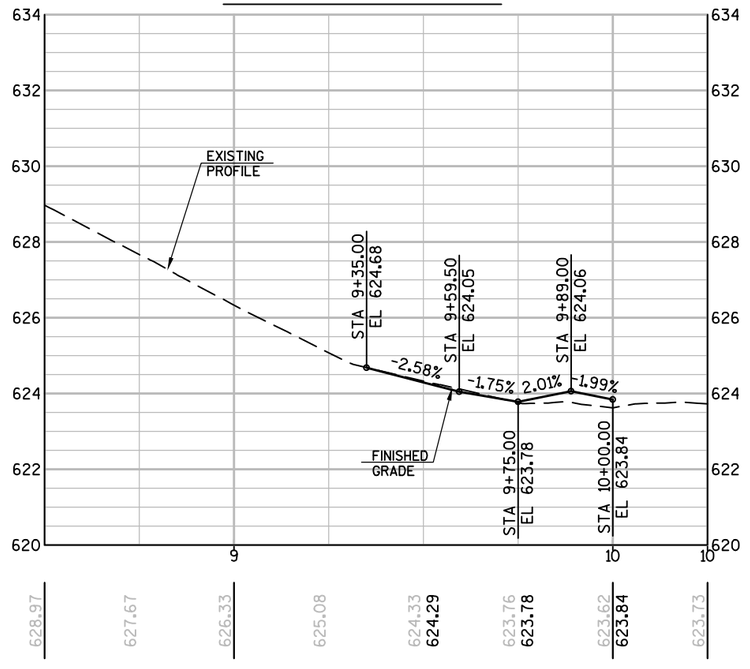


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	SIDE STREET PROFILES	SHEET 517 E

N. 11TH ST. PROFILE

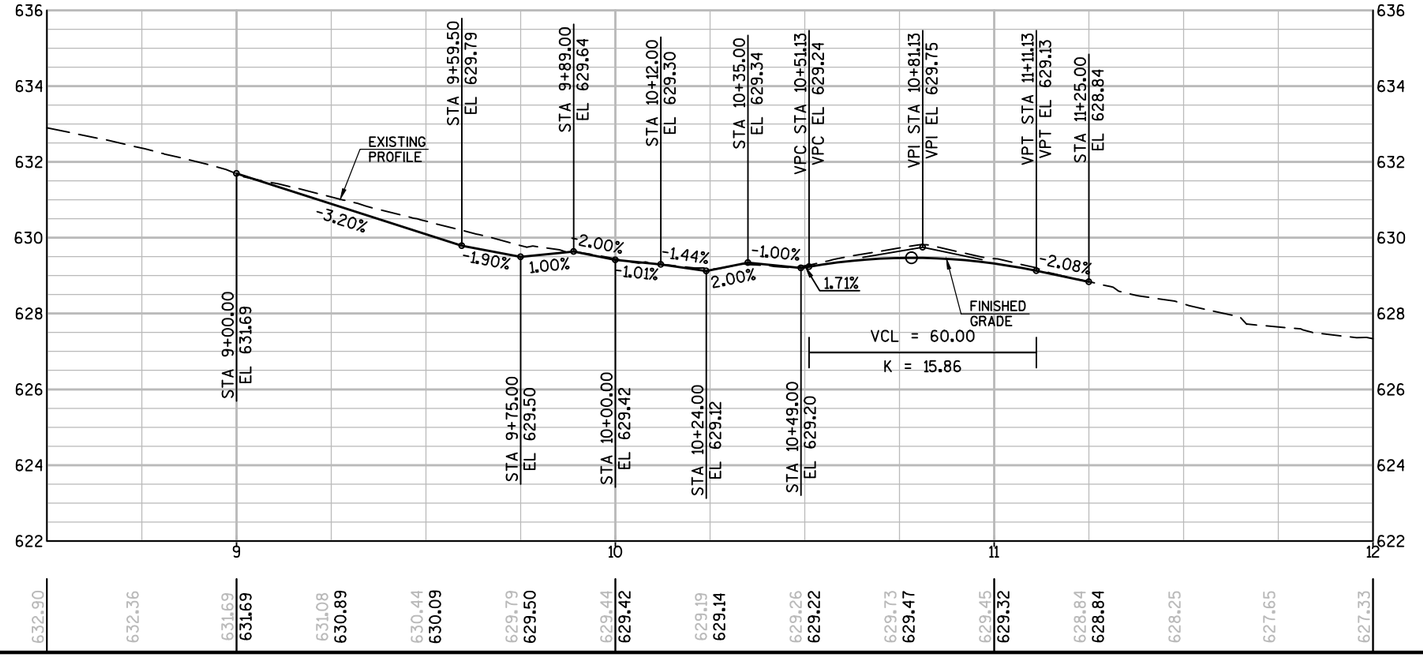


N. 10TH ST. PROFILE

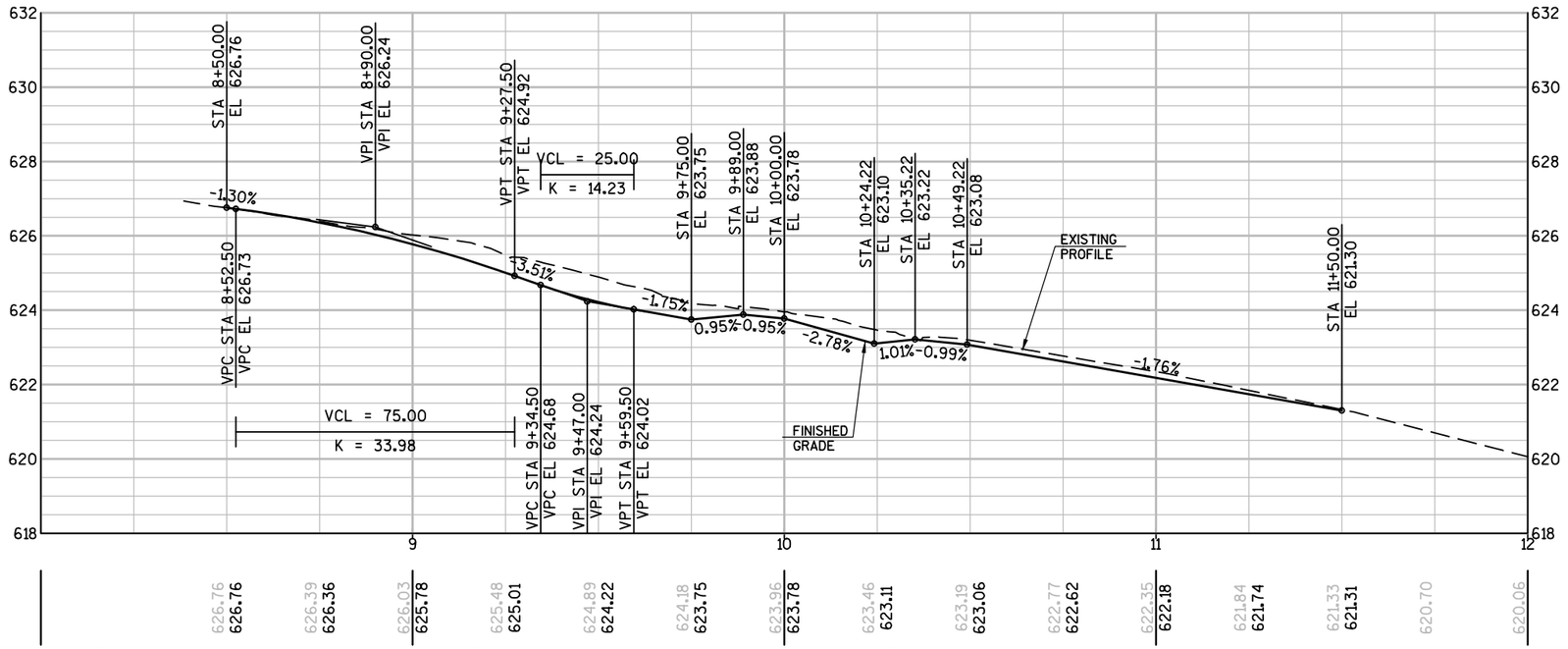


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	SIDE STREET PROFILES	SHEET 518	E

N. 9TH ST. PROFILE

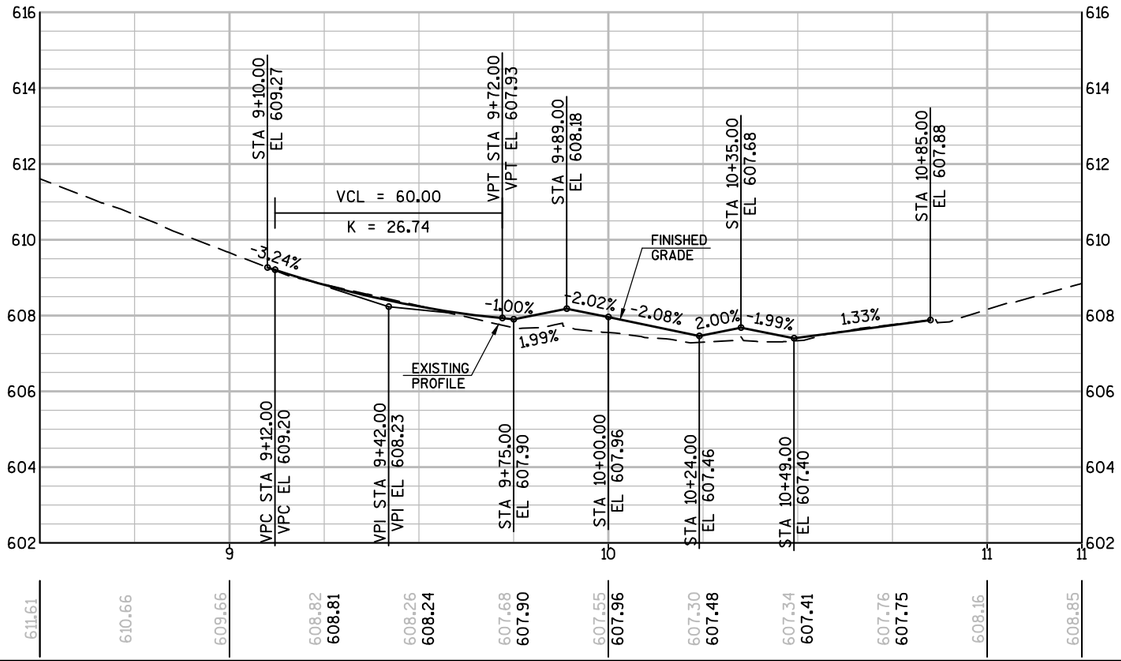


N. 8TH ST. PROFILE

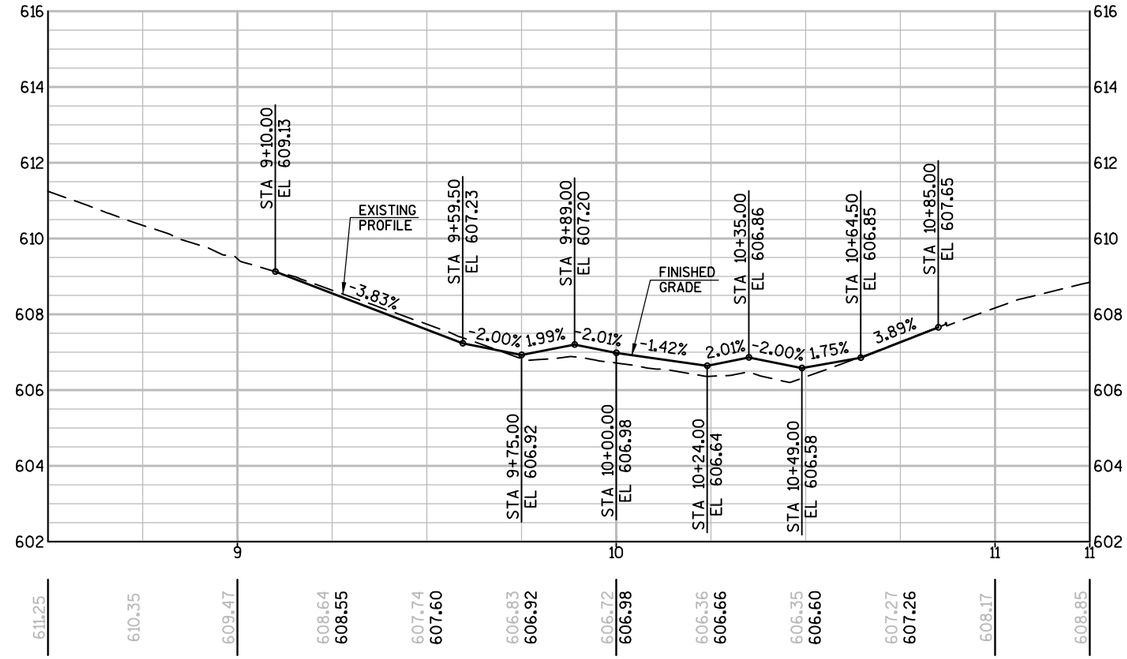


PROJECT NO:1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	SIDE STREET PROFILES	SHEET 519 E

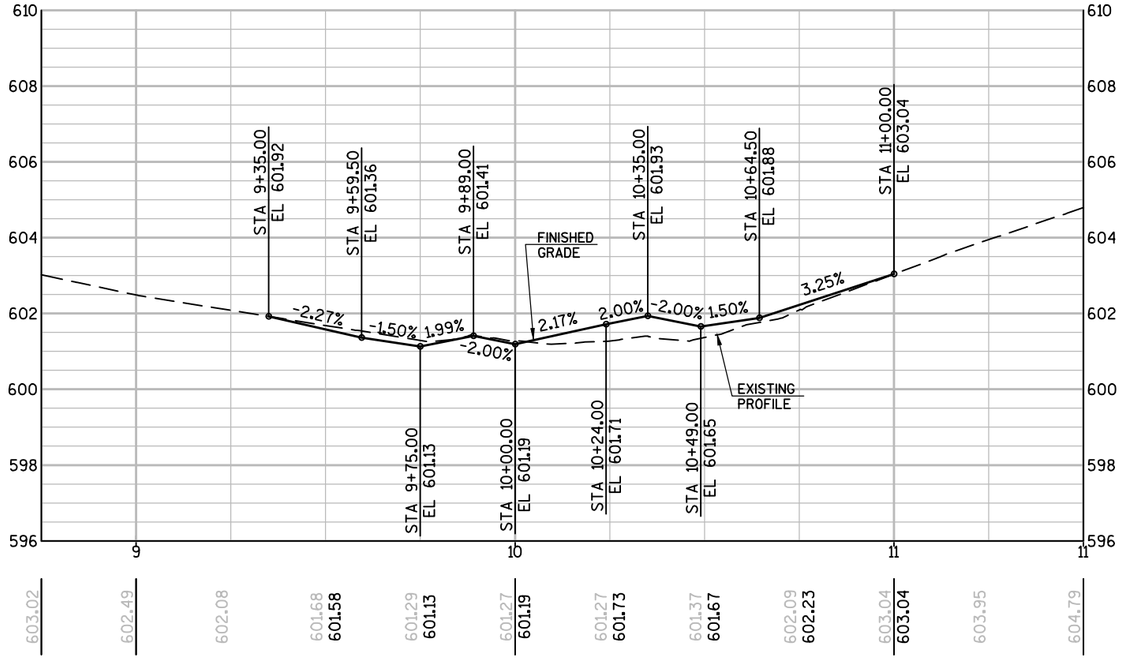
LINCOLN BLVD. (WEST) PROFILE



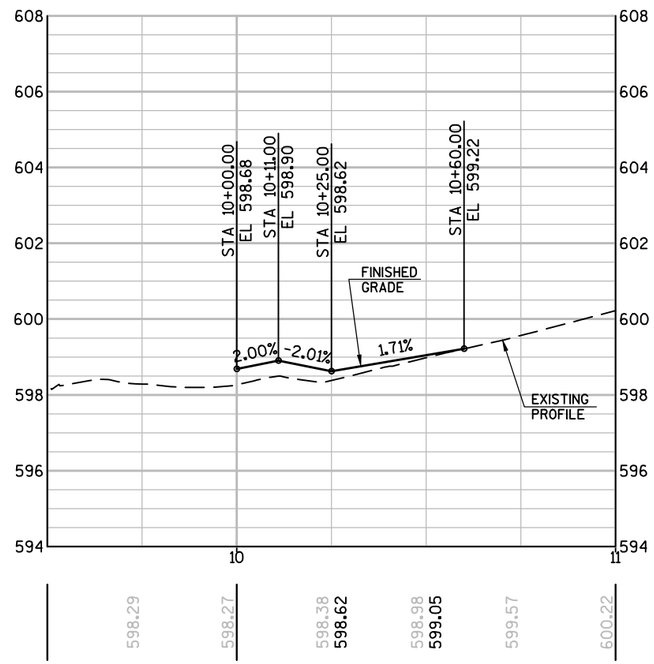
LINCOLN BLVD. (EAST) PROFILE



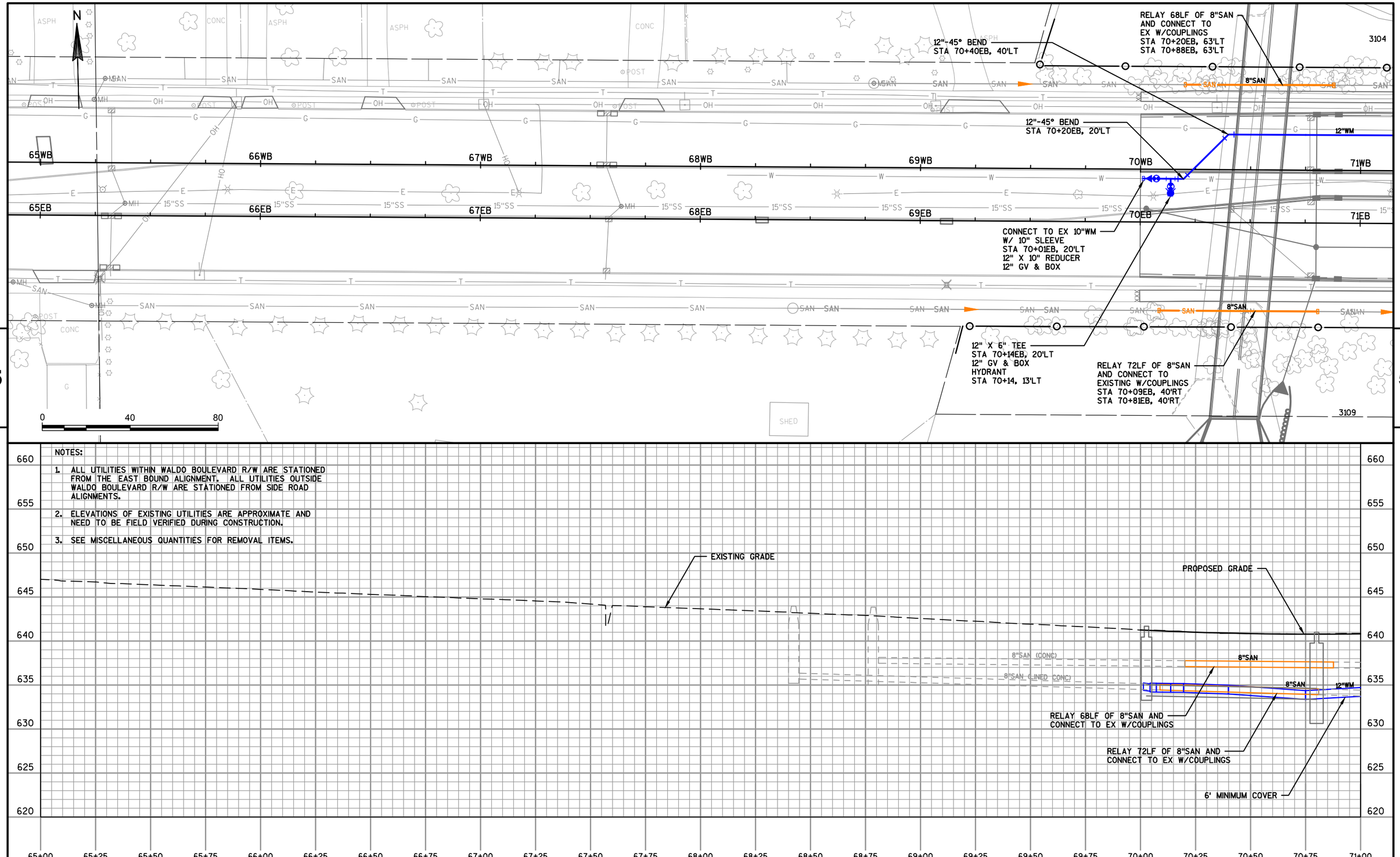
N. 6TH ST. PROFILE



N. 5TH ST. (PROFILE)



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	SIDE ROAD PROFILES	SHEET 520 E



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NOTES:

1. ALL UTILITIES WITHIN WALDO BOULEVARD R/W ARE STATIONED FROM THE EAST BOUND ALIGNMENT. ALL UTILITIES OUTSIDE WALDO BOULEVARD R/W ARE STATIONED FROM SIDE ROAD ALIGNMENTS.
2. ELEVATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND NEED TO BE FIELD VERIFIED DURING CONSTRUCTION.
3. SEE MISCELLANEOUS QUANTITIES FOR REMOVAL ITEMS.

PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 521	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\WM_SAN_WALDO_15003772-1.DWG
LAYOUT NAME - 1500_37_72_023001_UP
PLOT DATE : 7/25/2018 2:08 PM PLOT BY : SHALLOW, JON PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

3104

REMOVE EX SANITARY MANHOLE

FLEETWOOD DR

8"SAN

18"SAN

REMOVE AND NEW MANHOLE #30
STA 72+41EB, 64'LT
CONNECT TO EX SANITARY W/ COUPLINGS

CITY PARKS SHOP

USH 10/STH 42 (WALDO BLVD)

12"WM

71WB 72WB 73WB 74WB 75WB 76WB 77WB

71EB 72EB 73EB 74EB 75EB 76EB 77EB

10"W

9"W

15"SS 12"SS

CONNECT TO EX 12"WM
W/ 12" SLEEVE
12" TEE
STA 72+04EB, 40'LT
12" GV & BOX (W & N)

(2) 12"-45° BENDS
STA 72+05EB, 22'RT
STA 72+16EB, 32'RT

CONNECT TO EX 6"WM
W/ 6" SOLID SLEEVE
STA 72+28EB, 46'RT

12" X 6" TEE
STA 72+28EB, 32'RT
12" GV & BOX (E), 32'RT
6" GV & BOX (S), 43'RT

CONNECT TO EX 12"WM
W/ 12" SLEEVE
STA 74+55EB, 36'RT

3109

0 40 80

5 5

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2. ELEVATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND NEED TO BE FIELD VERIFIED DURING CONSTRUCTION.
3. SEE MISCELLANEOUS QUANTITIES FOR REMOVAL ITEMS.

PROPOSED STORM SEWER

EXISTING GRADE @ ROADWAY

PROPOSED GRADE

RELAY 28LF OF 8" SAN

6' MINIMUM COVER

8"SAN

12"WM

MANHOLE #30
RIM 643.32
INV 8" W 636.40 (EX CONC)
INV 8" W 629.89 DROP
INV 18" S 629.14 (EX CONC LINED)
INV 18" NE 629.29 (EX CONC)

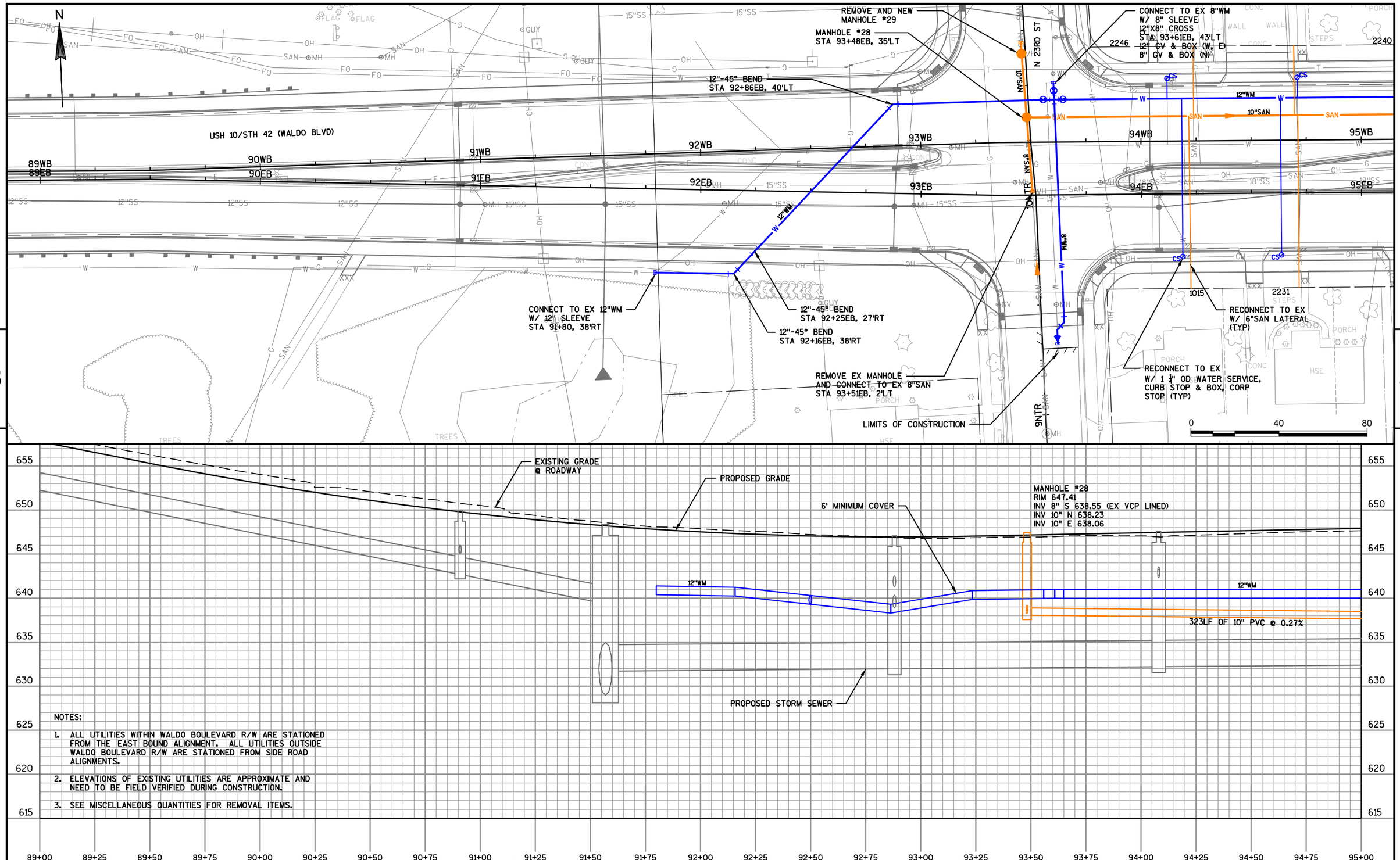
MANHOLE #31
RIM 643.35
INV 15" N 629.35 (EX CONC)
INV 18" SW 629.35 (EX CONC)
INV 10" NE 630.60

RELAY 41LF OF 18" PVC @ 0.15%

660 655 650 645 640 635 630 625 620

71+00 71+25 71+50 71+75 72+00 72+25 72+50 72+75 73+00 73+25 73+50 73+75 74+00 74+25 74+50 74+75 75+00 75+25 75+50 75+75 76+00 76+25 76+50 76+75 77+00

PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 522	E



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3. SEE MISCELLANEOUS QUANTITIES FOR REMOVAL ITEMS.

PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 523 E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\WM_SAN_WALDO_15003772-1.DWG
LAYOUT NAME - 1500_37_72_023005_UP
PLOT DATE : 7/25/2018 2:10 PM PLOT BY : SHALLOW, JON PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

RECONNECT TO EX W/ 1 1" OD WATER SERVICE, CURB STOP & BOX, CORP STOP (TYP)

MANHOLE #27 STA 96+71EB, 35'LT

RECONNECT TO EX W/ 6"SAN LATERAL (TYP)

12" X 6" TEE STA 99+35EB, 43'LT 12" GV & BOX (E) 6" GV & BOX (S)

HYDRANT, STA 99+92EB, 54'LT SEE NOTE 3

REMOVE AND NEW MANHOLE #26 STA 99+68EB, 35'LT CONNECT TO EX SANITARY W/ COUPLING

20" DIA STEEL CASING PIPE 12" DIA CARRIER PIPE STA 100+16EB, 43'LT

20" DIA STEEL CASING PIPE 12" DIA CARRIER PIPE STA 100+96EB, 43'LT

80LF OF 20" STEEL CASING OPEN CUTTING THROUGH RAILROAD CROSSING IS PERMITTED

ABANDON-IN-PLACE EX 10"SAN SEWER

REMOVE EX SANITARY MANHOLE

ABANDON-IN-PLACE EX 10"SAN NORTH RECONSTRUCT MANHOLE BENCH

12" X 6" TEE STA 99+92EB, 43'LT 6" GV & BOX

12" GV & BOX STA 99+85EB, 43'LT

REMOVE AND NEW MANHOLE #25 STA 100+53EB, 19'RT CONNECT TO EX SANITARY W/ COUPLINGS

USH 10/STH 42 (WALDO BLVD)

MENCHL DR

95WB 96WB 97WB 98WB 99WB 100WB 101WB

95EB 96EB 97EB 98EB 99EB 100EB 101EB

10"SAN 12"WM 6"WM

2240 2232 2230 2224 2222 2214 2210 2208 2202 2200 2221 2217 2215 2213 2205 2203 2115

0 40 80

PROPOSED GRADE

EXISTING GRADE

6' MINIMUM COVER

MANHOLE #27
RIM 648.32
INV 10" W 637.19
INV 10" E 637.19

323LF OF 10" PVC @ 0.27%

296LF OF 10" PVC @ 0.27%

PROPOSED STORM SEWER

MANHOLE #26
RIM 647.27
INV 10" W 636.40
INV 12" E 636.40 (EX VCP LINED)

MANHOLE #25
RIM 647.27
INV 12" NW 635.74 (EX VCP LINED)
INV 12" E 635.72 (EX VCP LINED)

660 655 650 645 640 635 630 625 620

95+00 95+25 95+50 95+75 96+00 96+25 96+50 96+75 97+00 97+25 97+50 97+75 98+00 98+25 98+50 98+75 99+00 99+25 99+50 99+75 100+00 100+25 100+50 100+75 101+00

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4. SEE MISCELLANEOUS QUANTITIES FOR REMOVAL ITEMS.

PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 524 E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\WM_SAN_WALDO_15003772-2.DWG
LAYOUT NAME - 1500_37_72_023006_UP

PLOT DATE : 9/18/2018 7:13 AM PLOT BY : SHALLOW, JON PLOT NAME : PLOT SCALE : 1 IN:40 FT

HYDRANT
STA 101+11EB, 54'LT
SEE NOTE 3

RECONNECT TO EX
W/ 1 1" OD WATER SERVICE,
CURB STOP & BOX, CORP
STOP (TYP)

12" CMCP

N 21ST ST

11TR

USH 10/STH 42 (WALDO BLVD)

12"WM

8"WM

101WB 102WB 103WB 104WB 105WB 106WB 107WB

101EB 102EB 103EB 104EB 105EB 106EB 107EB

18"SS 12"SS 15"SS

2109 2103 2020 2016 2014 1102 2009 1023

HYDRANT
STA 103+81EB, 54'LT
SEE NOTE 3

CONNECT TO EX 24"WM
W/ (2) 24" SLEEVES AND
24" X 12" CROSS
STA 106+82EB, 43'LT
STA 106+82EB, 17'LT
12" GV & BOX (W & E)
REMOVE EX CROSS

12"X8" CROSS
STA 106+62EB, 43'LT
12" GV & BOX (W)
8" GV & BOX (N & S)

PARK ROW BLVD

11SPR 10SPR

12"SAN

OVERFLOW

N 20TH ST

12" X 6" TEE
STA 101+11EB, 43'LT
6" GV & BOX

RECONNECT TO EX
W/ 6"SAN LATERAL
(TYP)

12" GV & BOX
STA 101+04EB, 43'LT

REMOVE AND NEW
MANHOLE #24
STA 102+99EB, 18'RT
CONNECT TO EX
SANITARY W/ COUPLING

12" X 8" CROSS
STA 103+21EB, 43'LT
12" GV & BOX (W)
8" GV & BOX (N & S)

12" X 6" TEE
STA 103+81EB, 43'LT
6" GV & BOX

REMOVE AND NEW
MANHOLE #23
STA 106+50EB, 18'RT
CONNECT TO EX
SANITARY W/ COUPLING

N

0 40 80

5 5

660 655 650 645 640 635 630 625 620

EXISTING GRADE

6' MINIMUM COVER

PROPOSED GRADE

PROPOSED STORM SEWER

12"WM 15"SS 12"WM 24"WM

RELAY
110LF OF 12" PVC
@ 0.27%

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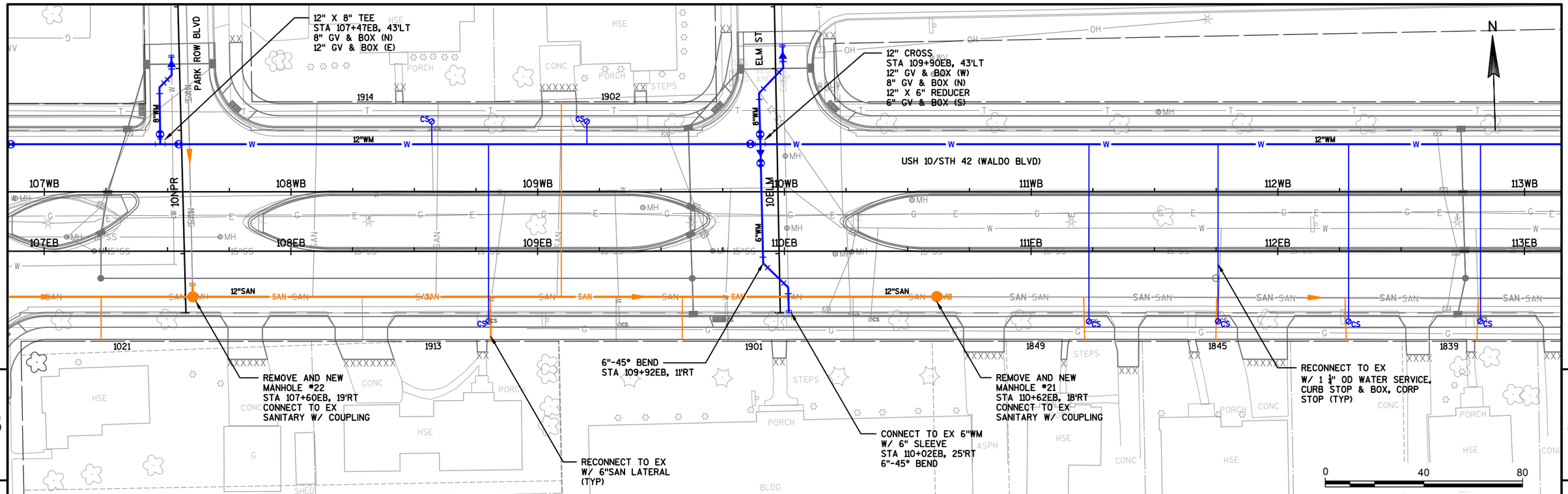
4. SEE MISCELLANEOUS QUANTITIES FOR REMOVAL ITEMS.

MANHOLE #24
RIM 649.40
INV 8" N 639.14 (EX VCP LINED)
INV 8" N 635.10 DROP
INV 12" S 634.79 (EX VCP LINED)
INV 12" W 634.64 (EX VCP LINED)
INV 12" E 634.59 (EX VCP LINED)

MANHOLE #23
RIM 649.92
INV 8" N 640.72 (EX VCP LINED)
INV 8" N 634.00 DROP
INV 10" S 639.62 (EX VCP LINED)
INV 12" W 633.62 (EX VCP LINED)
INV 12" E 633.47

101+00 101+25 101+50 101+75 102+00 102+25 102+50 102+75 103+00 103+25 103+50 103+75 104+00 104+25 104+50 104+75 105+00 105+25 105+50 105+75 106+00 106+25 106+50 106+75 107+00

PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 525	E



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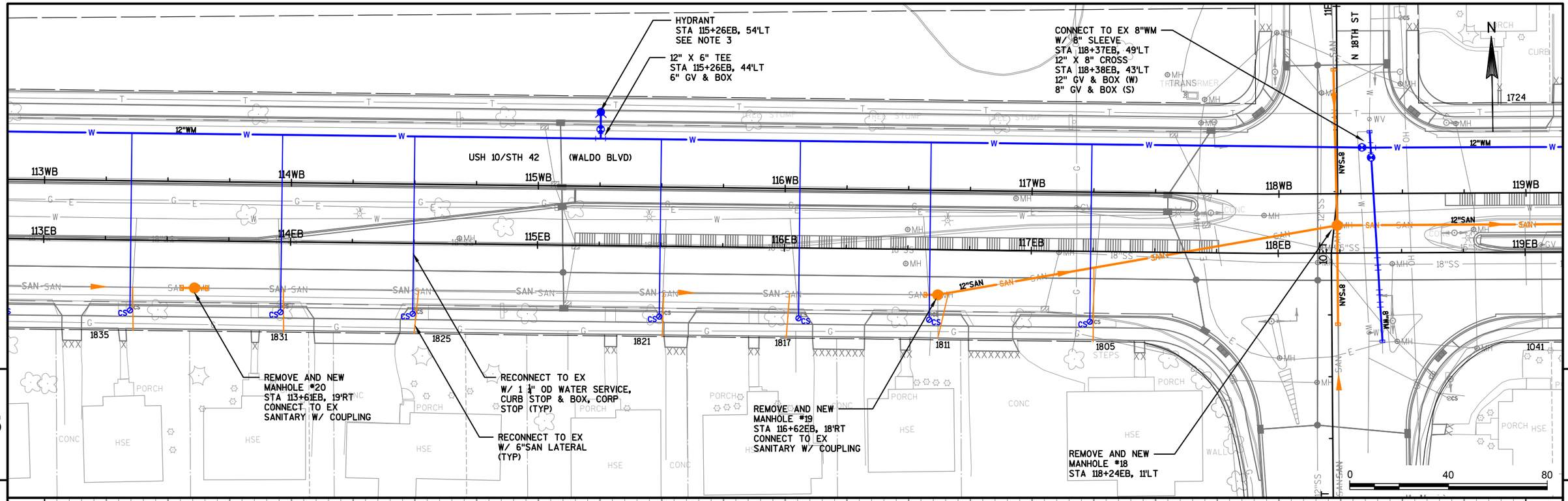
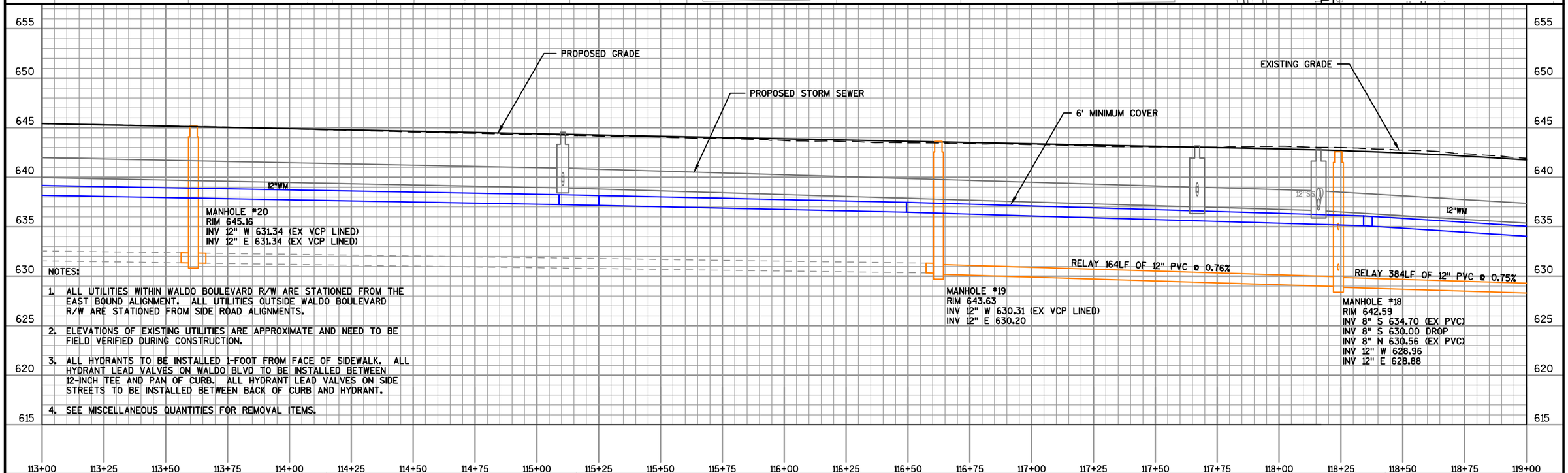
PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 526 E





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PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 527 E

RECONNECT TO EX
W/ 1 ¼" OD WATER SERVICE,
CURB STOP & BOX, CORP
STOP (TYP)

12" X 8" CROSS
STA 122+25EB, 42'LT
12" GV & BOX (W)
8" GV & BOX (N & S)

HYDRANT
STA 122+48EB, 30'LT
SEE NOTE 3

USH 10/STH 42

(WALDO BLVD)

N 17TH ST

RECONNECT TO EX
W/ 6"SAN LATERAL
(TYP)

REMOVE AND NEW
MANHOLE #17
STA 122+08EB, 11'LT
CONNECT TO EX
SANITARY W/ COUPLING

12" X 6" TEE
STA 122+48EB, 18'LT
6" GV & BOX

REMOVE AND NEW
MANHOLE #16A
STA 123+94EB, 11'LT

0 40 80

6' MINIMUM COVER

EXISTING GRADE

PROPOSED STORM SEWER

PROPOSED GRADE

12"WM

12"SS

RELAY 384LF OF 12" PVC @ 0.75%

RELAY 186LF OF 12" PVC @ 0.85%

RELAY 158LF OF 12" PVC @ 0.85%

MANHOLE #17
RIM 636.53
INV 8" S 628.06 (EX VCP LINED)
INV 8" N 628.01 (EX VCP LINED)
INV 12" W 626.00
INV 12" E 625.88

MANHOLE #16A
RIM 635.59
INV 12" W 624.30
INV 12" E 624.19

NOTES:

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4. SEE MISCELLANEOUS QUANTITIES FOR REMOVAL ITEMS.

PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 528 E

12" X 8" CROSS
STA 125+73EB, 42'LT
12" GV & BOX (W)
8" GV & BOX (N & S)

REMOVE AND NEW
MANHOLE #16
STA 125+52EB, 11'LT
CONNECT TO EX
SANITARY W/ COUPLING

REMOVE AND NEW
MANHOLE #15
STA 128+15EB, 12'LT
CONNECT TO EX
SANITARY W/ COUPLING

12" X 8" CROSS
STA 128+35EB, 43'LT
12" GV & BOX (W)
8" GV & BOX (N & S)

RECONNECT TO EX
W/ 1 ¼" OD WATER SERVICE,
CURB STOP & BOX, CORP
STOP (TYP)

USH 10/STH 42 (WALDO BLVD)

RECONNECT TO EX
W/ 6"SAN LATERAL
(TYP)

REMOVE AND NEW
MANHOLE #14
STA 130+95EB, 12'LT
CONNECT TO EX
SANITARY W/ COUPLING

REMOVE EX SANITARY
MANHOLE

MANHOLE #14A

0 40 80

PROPOSED STORM SEWER

EXISTING GRADE

PROPOSED GRADE

6' MINIMUM COVER

158LF OF 12" PVC
@ 0.85%

MANHOLE #16
RIM 633.34
INV 8" N 624.32 (EX VCP LINED)
INV 8" S 624.32 (EX VCP LINED)
INV 12" W 622.85
INV 12" E 622.74

RELAY 264LF OF 12" PVC @ 0.85%

MANHOLE #15
RIM 632.26
INV 8" N 622.16 (EX VCP LINED)
INV 8" S 622.16 (EX VCP)
INV 12" W 620.50
INV 12" E 620.40

RELAY 280LF OF 12" PVC @ 0.85%

MANHOLE #14
RIM 629.81
INV 8" S 618.02
INV 12" W 618.02
INV 12" E 617.92

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PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 529 E

12" X 8" CROSS
STA 131+16EB, 43'LT
12" GV & BOX (W)
8" GV & BOX (N & S)

RELAY AND CAP AT R/W
6"SAN LATERAL FOR FUTURE

RELAY AND CAP AT R/W
6"SAN LATERAL FOR FUTURE

12" x 8" TEE
STA 133+85EB, 44'LT
8" GV & BOX (S)
12" GV & BOX (W)

MANHOLE #12A
STA 134+00EB, 35'LT

CONNECT TO EX 12"WM
STA 135+63EB, 59'LT
12"-45° BEND
12" GV & BOX
STA 135+68EB, 54'LT

12" X 8" TEE
STA 136+62EB, 44'LT
8" GV & BOX (N)
12" GV & BOX (E)

N

N 14TH ST

N 12TH ST

MEMASHA AVE

USH 10/STH 42 (WALDO BLVD)

10TH

10MN

10TH

10TW

N 13TH ST

131WB 132WB 133WB 134WB 135WB 136WB 137WB

131EB 132EB 133EB 134EB 135EB 136EB 137EB

12"WM 8"WM 12"SAN 8"SAN 21"SAN 24"SS 21"SS

1045 1311 1305 1303 1215 1211 1044

ABANDON

RECONNECT TO EX
W/ 1 ¼" OD WATER SERVICE,
CURB STOP & BOX, CORP
STOP (TYP)

RECONNECT TO EX
W/ 6"SAN LATERAL
(TYP)

REMOVE AND NEW
MANHOLE #13
STA 133+75EB, 11'LT

MANHOLE #13A

LIMITS OF CONSTRUCTION

ABANDON-IN-PLACE
EX 12"SAN SEWER

MANHOLE #12
STA 135+59, 35'LT
CONNECT TO EX
SANITARY W/ COUPLING

12" TEE, STA 135EB+71, 44'LT
12" GV & BOX (W)

REMOVE EX SANITARY
MANHOLE

12" X 8" TEE
STA 136+33EB, 44'LT
8" GV & BOX (S)

MANHOLE #11
STA 136+53EB, 35'LT

REMOVE EX SANITARY
MANHOLE

REMOVE & NEW
MANHOLE #11A

5

5

0 40 80

635 630 625 620 615 610 605 600 595

PROPOSED STORM SEWER

EXISTING GRADE

6' MINIMUM COVER

PROPOSED GRADE

12"WM

RELAY 280LF OF 12" PVC @ 0.85%

158LF OF 12" PVC @ 0.88%

35LF OF 12" PVC @ 0.85%

94LF OF 21" PVC @ 1.59%

260LF OF 21" PVC
@ 0.73%

MANHOLE #13
RIM 626.57
INV 8" S 615.71
INV 12" W 615.55
INV 12" NE 615.45

MANHOLE #12A
RIM 626.54
INV 12" SW 615.14
INV 12" E 615.14

MANHOLE #12
RIM 624.31
INV 12" W 613.75
INV 12" W 607.84 DROP
INV 15" NW 607.80 (EX VCP LINED)
INV 21" E 607.00

MANHOLE #11
RIM 623.34
INV 15" N 605.90 (EX VCP)
INV 8" S 606.37
INV 21" W 605.50
INV 21" E 605.50

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3. ALL HYDRANTS TO BE INSTALLED 1-FOOT FROM FACE OF SIDEWALK. ALL HYDRANT LEAD VALVES ON WALDO BLVD TO BE INSTALLED BETWEEN 12-INCH TEE AND PAN OF CURB. ALL HYDRANT LEAD VALVES ON SIDE STREETS TO BE INSTALLED BETWEEN BACK OF CURB AND HYDRANT.
4. SEE MISCELLANEOUS QUANTITIES FOR REMOVAL ITEMS.

131+00 131+25 131+50 131+75 132+00 132+25 132+50 132+75 133+00 133+25 133+50 133+75 134+00 134+25 134+50 134+75 135+00 135+25 135+50 135+75 136+00 136+25 136+50 136+75 137+00

PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 530	E

RECONNECT TO EX W/ 6"SAN LATERAL (TYP)

RECONNECT TO EX W/ 1 ¼" OD WATER SERVICE, CURB STOP & BOX, CORP STOP (TYP)

MANHOLE #10 STA 139+13EB, 35'LT

MANHOLE #9 STA 141+56EB, 35'LT CONNECT TO EX SANITARY W/ COUPLING

12" CROSS STA 141+69EB, 44'LT 12" GV & BOX (W & S) 12" X 8" REDUCER (N) 8" GV & BOX (N)

N

WILSON JR HIGH SCHOOL

N 11TH ST

USH 10/STH 42 (WALDO BLVD)

ABANDON

ABANDON

REMOVE

REMOVE EX SANITARY MANHOLE

REMOVE EX SANITARY MANHOLE

MANHOLE #9B STA 141+56EB, 22'RT CONNECT TO EX SANITARY W/ COUPLING

ABANDON-IN-PLACE EX WATER MAIN

0 40 80

NOTES:

1. ALL UTILITIES WITHIN WALDO BOULEVARD R/W ARE STATIONED FROM THE EAST BOUND ALIGNMENT. ALL UTILITIES OUTSIDE WALDO BOULEVARD R/W ARE STATIONED FROM SIDE ROAD ALIGNMENTS.
2. ELEVATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND NEED TO BE FIELD VERIFIED DURING CONSTRUCTION.
3. SEE MISCELLANEOUS QUANTITIES FOR REMOVAL ITEMS.

PROPOSED GRADE

PROPOSED STORM SEWER

6' MINIMUM COVER

EXISTING GRADE

260LF OF 21" PVC @ 0.73%

244LF OF 21" PVC @ 0.66%

365LF OF 8" PVC @ 1.37%

MANHOLE #10
RIM 621.48
INV 21" W 603.60
INV 21" E 603.60

MANHOLE #9B
RIM 620.33
INV 8" S 611.27 EX PVC)
INV 8" S 607.97 DROP
INV 8" E 610.00
INV 8" N 607.93

MANHOLE #9
RIM 620.25
INV 8" S 606.95
INV 8" S 602.04 DROP
INV 21" W 602.00
INV 21" N 602.00 (EX VCP LINED)

PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 531 E

12" X 8" TEE
STA 145+32EB, 44'LT
12" GV & BOX (W)
8" GV & BOX (S)

12" X 10" CROSS
STA 148+45EB, 44'LT
12" GV & BOX (W)
10" GV & BOX (N)
10" X 8" REDUCER (S)
8" GV & BOX (S)
(2) 12"-45° BENDS (E)
STA 148+53EB, 44'LT
STA 148+64EB, 33'LT

REMOVE AND NEW
MANHOLE *7
STA 148+99EB, 41'LT
CONNECT TO EX
SANITARY W/COUPLING

N

WILSON JR HIGH SCHOOL

N 9TH ST

USH 10/STH 42 (WALDO BLVD)

12"WM

8"WM

10"WM

143WB 144WB 145WB 146WB 147WB 148WB 149WB

143EB 144EB 145EB 146EB 147EB 148EB 149EB

REMOVE

8"SAN

REMOVE

8"SAN

1009

1003

820

819

817

RECONNECT TO EX
W/ 6"SAN LATERAL
(TYP)

REMOVE EX SANITARY
MANHOLE

RECONNECT TO EX
W/ 1 ¼" OD WATER SERVICE,
CURB STOP & BOX, CORP
STOP (TYP)

IMMANUEL SCHOOL & CHURCH

REMOVE EX SANITARY
MANHOLE

MANHOLE *7A
STA 148+35EB, 21'RT
CONNECT TO EX
SANITARY W/COUPLING

MANHOLE *8
STA 145+21EB, 22'RT
CONNECT TO EX
SANITARY W/ COUPLING

N 10TH ST

0 40 80

5

5

630 625 620 615 610 605 600 595 590

EXISTING GRADE

PROPOSED GRADE

MANHOLE *8
RIM 623.74
INV 8" S 616.29 EX PVC)
INV 8" W 615.00

6' MINIMUM COVER

12"WM

365LF OF 8" PVC @ 1.37%

PROPOSED STORM SEWER

MANHOLE *7A
RIM 629.53
INV 8" S 622.93 (EX VCP LINED)
INV 8" E 622.50

12"WM

301LF OF 8" PVC @ 2.16%

MANHOLE *7
RIM 628.45
INV 8" E 621.32 (EX VCP LINED)

NOTES:

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2. ELEVATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND NEED TO BE FIELD VERIFIED DURING CONSTRUCTION.
3. ALL HYDRANTS TO BE INSTALLED 1-FOOT FROM FACE OF SIDEWALK. ALL HYDRANT LEAD VALVES ON WALDO BLVD TO BE INSTALLED BETWEEN 12-INCH TEE AND PAN OF CURB. ALL HYDRANT LEAD VALVES ON SIDE STREETS TO BE INSTALLED BETWEEN BACK OF CURB AND HYDRANT.
4. SEE MISCELLANEOUS QUANTITIES FOR REMOVAL ITEMS.

143+00 143+25 143+50 143+75 144+00 144+25 144+50 144+75 145+00 145+25 145+50 145+75 146+00 146+25 146+50 146+75 147+00 147+25 147+50 147+75 148+00 148+25 148+50 148+75 149+00

PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 532	E

RECONNECT TO EX W/ 6"SAN LATERAL (TYP)

REMOVE AND NEW MANHOLE *6 STA 151+37EB, 41'LT CONNECT TO EX SANITARY W/COUPLINGS

12" TEE STA 151+56EB, 44'LT 12" GV & BOX (N & S)

HYDRANT STA 152+04EB, 53'LT SEE NOTE 3

CONTRACT 1500-37-72 CONTRACT 4570-12-72

N

N 8TH ST

ABANDON 10"SAN

USH 10/STH 42 (WALDO BLVD)

REMOVE

RECONNECT TO EX W/ 1 1/4" OD WATER SERVICE, CURB STOP & BOX, CORP STOP (TYP)

REMOVE EX SANITARY MANHOLE

MANHOLE *6A STA 151+37EB, 21'RT CONNECT TO EX SANITARY W/COUPLING

12" TEE STA 151+56EB 33'RT 12" GV & BOX (W)

REMOVE AND NEW MANHOLE *6B STA 152+11EB, 35'LT CONNECT TO EX SANITARY W/COUPLING

12" X 6" TEE STA 152+04EB, 44'LT 6" GV & BOX

REMOVE EX SANITARY MANHOLE

0 40 80

EXISTING GRADE

6' MINIMUM COVER

PROPOSED GRADE

12"WM 301LF OF 8" PVC @ 2.16%

423LF OF 8" PVC @ 4.24%

PROPOSED STORM SEWER

MANHOLE *6B
RIM 621.72
INV 8" E 613.74 (EX VCP LINED)

MANHOLE *6A
RIM 623.91
INV 8" S 616.33 (EX VCP LINED)
INV 8" W 616.00
INV 8" E 615.12

MANHOLE *6
RIM 623.47
INV 8" W 615.08 (EX VCP LINED)
INV 8" N 615.01 (EX VCP LINED)

NOTES:

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4. SEE MISCELLANEOUS QUANTITIES FOR REMOVAL ITEMS.

625 620 615 610 605 600 595 590 585

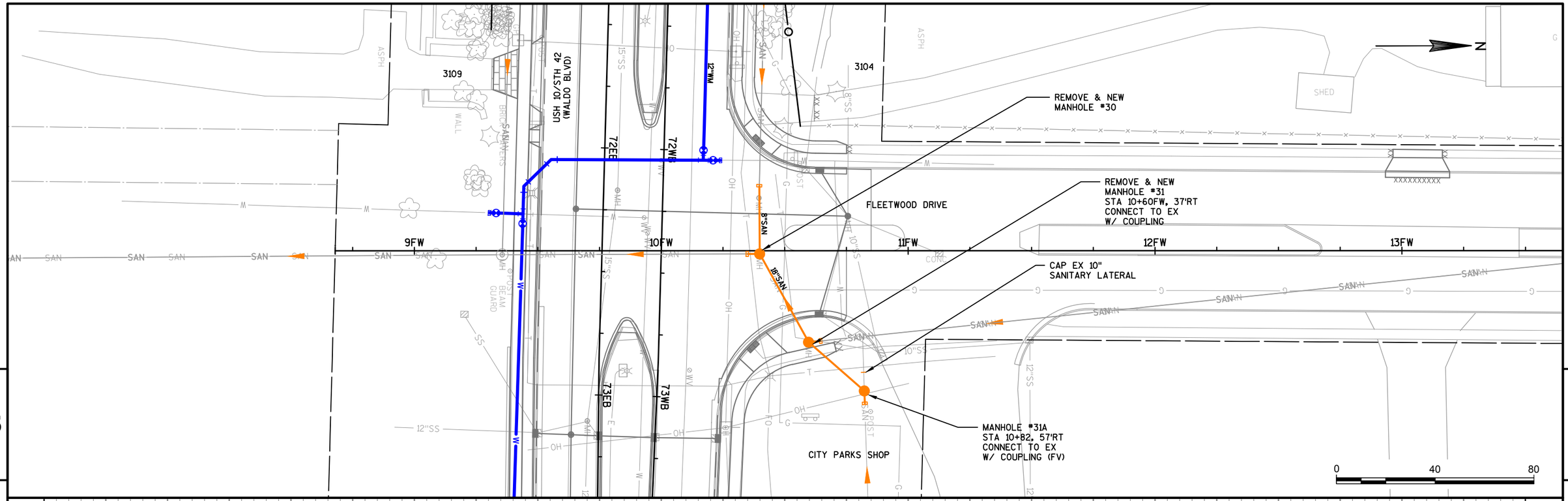
149+00 149+25 149+50 149+75 150+00 150+25 150+50 150+75 151+00 151+25 151+50 151+75 152+00 152+25 152+50 152+75 153+00 153+25 153+50 153+75 154+00 154+25 154+50 154+75 155+00

PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 533	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\WM_SAN_WALDO_15003772-3.DWG
LAYOUT NAME - 1500_37_72_023015_UP

PLOT DATE : 9/18/2018 7:12 AM PLOT BY : SHALLOW, JON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44



NOTES:

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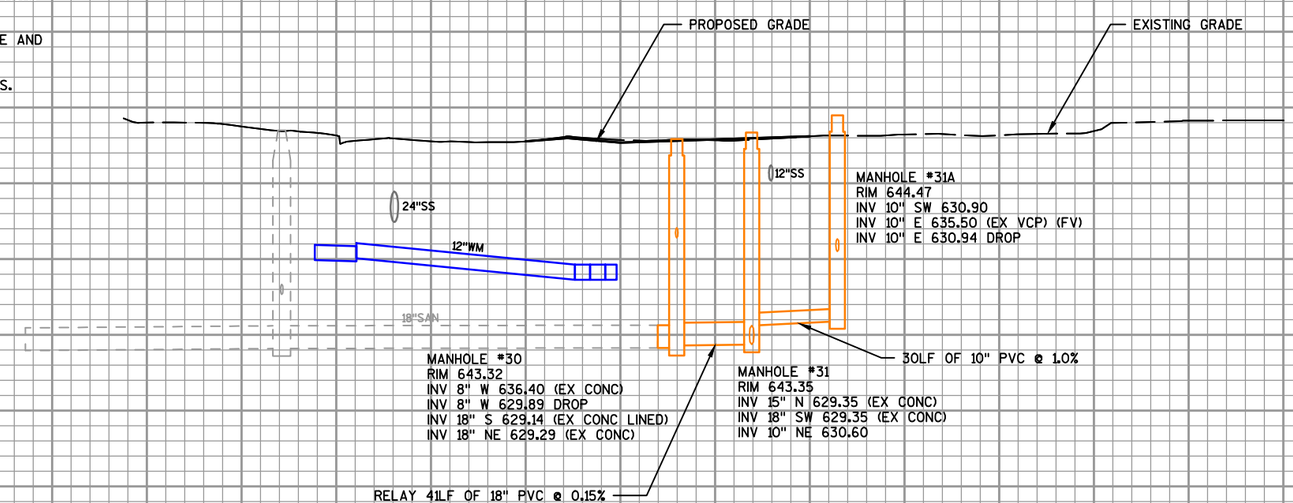
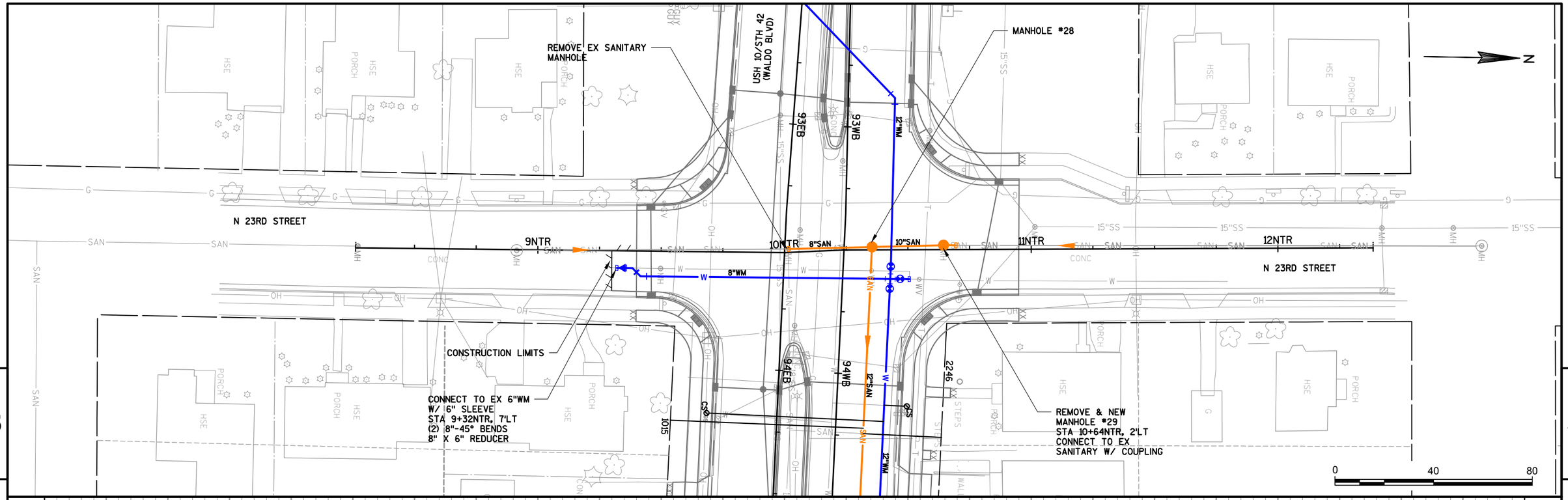
3. SEE MISCELLANEOUS QUANTITIES FOR REMOVAL ITEMS.



PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 534 E



NOTES:

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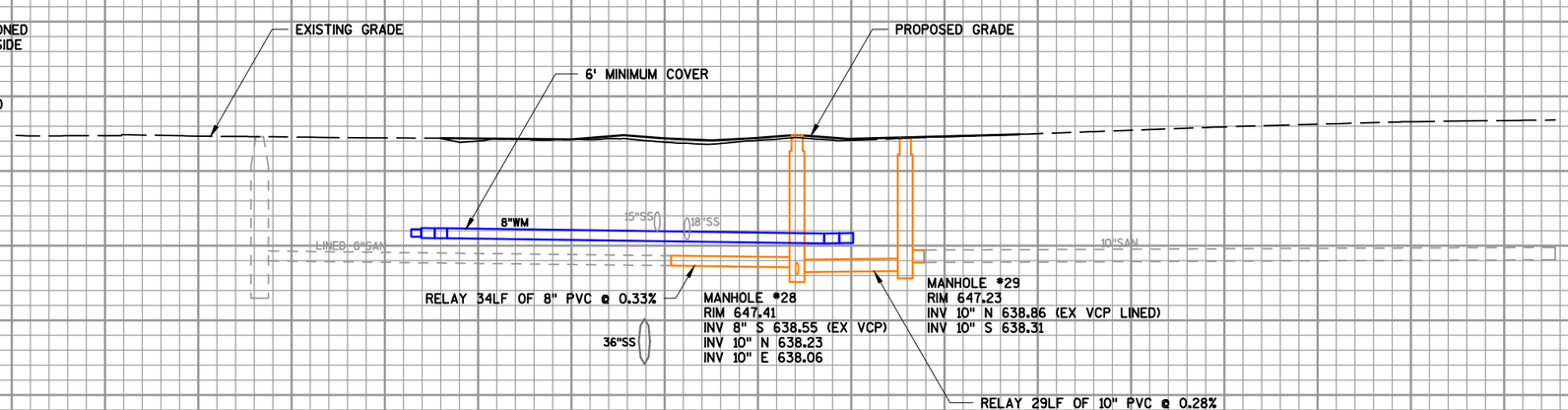
3. SEE MISCELLANEOUS QUANTITIES FOR REMOVAL ITEMS.



655 650 645 640 635 630 625 620 615

7+00 7+25 7+50 7+75 8+00 8+25 8+50 8+75 9+00 9+25 9+50 9+75 10+00 10+25 10+50 10+75 11+00 11+25 11+50 11+75 12+00 12+25 12+50 12+75 13+00

PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 535 E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\WM_SAN_N_23RD_STREET.DWG
LAYOUT NAME - 1500_37_72_023017_UP

PLOT DATE : 7/25/2018 2:27 PM PLOT BY : SHALLOW, JON PLOT NAME : PLOT SCALE : 1 IN:40 FT

(2) 6"-45° BENDS
STA 10+10MC, 12'RT
STA 10+15MC, 14'RT

(2) 6"-45° BENDS
STA 9+96MC, 8'RT
STA 10+01MC, 10'RT

ABANDON-IN-PLACE EX 10"SAN NORTH
RECONSTRUCT MANHOLE BENCH

REMOVE & NEW
MANHOLE *26

MENCHL DRIVE

CONNECT TO EX 6"WM
W/ 6" SLEEVE
STA 9+29MC, 17'RT
6"-45° BEND

6"-22.5° BEND
STA 9+30MC, 17'RT

BULKHEAD 8" CLAY

USH 10/STH 42 (WALDO BLVD)

0 40 80

NOTES:

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2. ELEVATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND NEED TO BE FIELD VERIFIED DURING CONSTRUCTION.
3. SEE MISCELLANEOUS QUANTITIES FOR REMOVAL ITEMS.

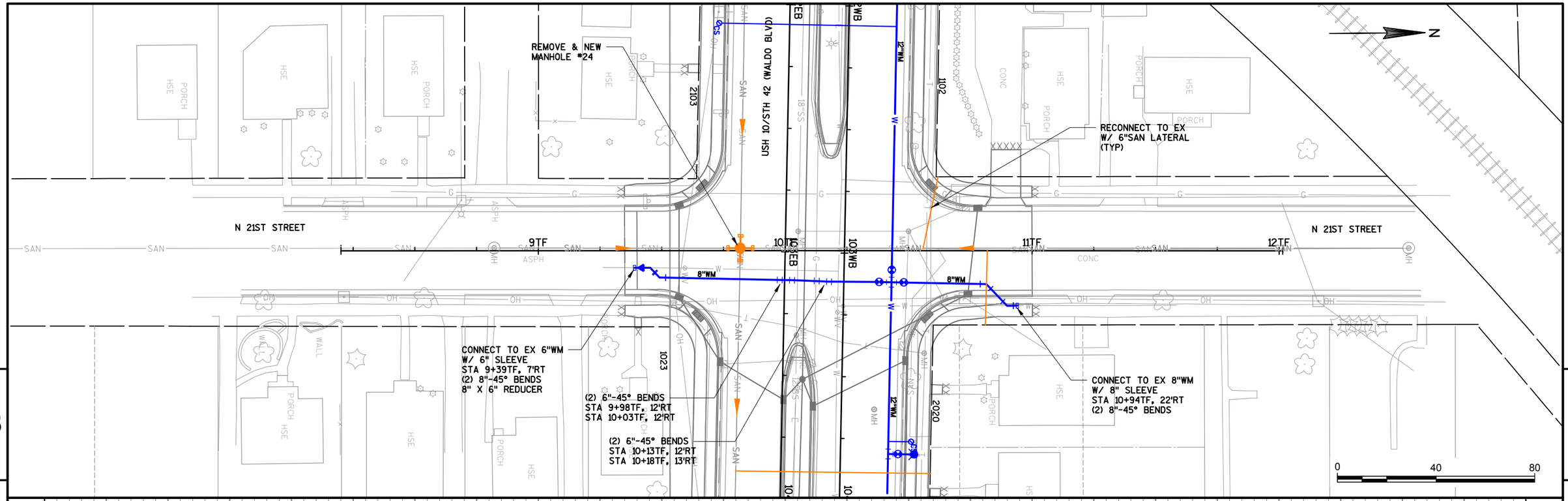
EXISTING GRADE
PROPOSED GRADE
6' MINIMUM COVER
18"SS
30"SS
6"WM

MANHOLE #26
RIM 647.27
INV 10" W 636.40
INV 12" E 636.40 (EX VCP LINED)

655 650 645 640 635 630 625 620 615

6+00 6+25 6+50 6+75 7+00 7+25 7+50 7+75 8+00 8+25 8+50 8+75 9+00 9+25 9+50 9+75 10+00 10+25 10+50 10+75 11+00 11+25 11+50 11+75 12+00

PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 536 E



NOTES:

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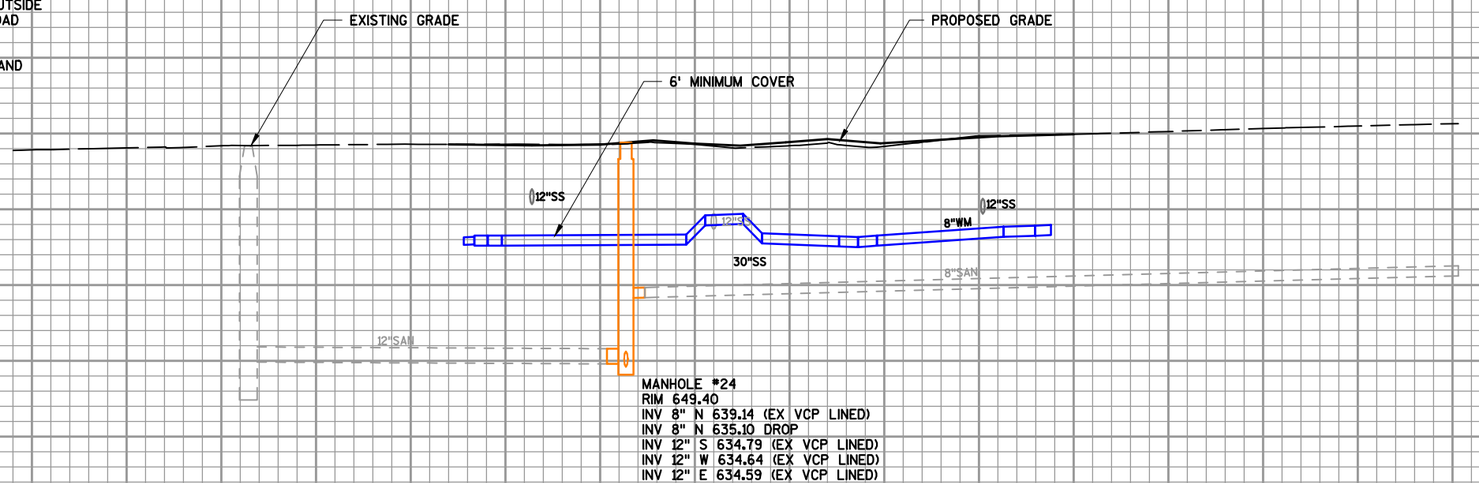

660 655 650 645 640 635 630 625 620

7+00 7+25 7+50 7+75 8+00 8+25 8+50 8+75 9+00 9+25 9+50 9+75 10+00 10+25 10+50 10+75 11+00 11+25 11+50 11+75 12+00 12+25 12+50 12+75 13+00

PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 537 E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\WM_SAN_N_21ST_STREET.DWG
LAYOUT NAME - 1500_37_72_023019_UP
PLOT DATE : 7/25/2018 2:34 PM PLOT BY : SHALLOW, JON PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

REMOVE & NEW MANHOLE #23

USH 10/STH 42 (WALDO BLVD)

2009

105EB

106WB

1102

RECONNECT TO EX W/ 6"SAN LATERAL (TYP)

N 20TH STREET

SB PARK ROW BLVD

9SPR

10SPR

11SPR

8"WM

CONNECT TO EX 6"WM
W/ 6" SLEEVE
STA 9+45SPR, 4'RT
(2) 8"-45° BENDS
8" X 6" REDUCER

(2) 8"-45° BENDS
STA 9+98SPR, 6'RT
STA 10+02SPR, 7'RT

1021

107EB

107WB

CONNECT TO EX 6"WM
W/ 6" SLEEVE
STA 10+80SPR, 4'RT
(2) 8"-45° BENDS
8" X 6" REDUCER

(2) 8"-45° BENDS
STA 10+12SPR, 8'RT
STA 10+17SPR, 9'RT

N

0 40 80

5

5

NOTES:

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2. ELEVATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND NEED TO BE FIELD VERIFIED DURING CONSTRUCTION.
3. SEE MISCELLANEOUS QUANTITIES FOR REMOVAL ITEMS.

EXISTING GRADE

PROPOSED GRADE

6' MINIMUM COVER

15"SS

18"SS

8"WM

10"SAN

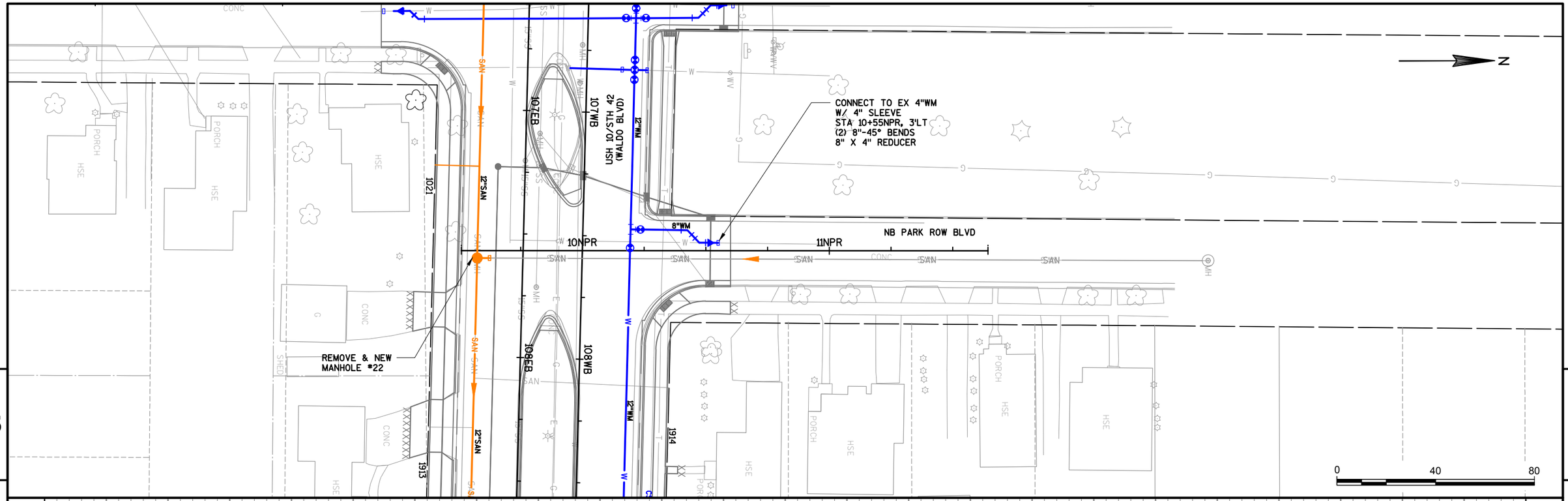
8"SAN

MANHOLE #23
RIM 649.92
INV 8" N 640.72 (EX VCP LINED)
INV 8" N 634.00 DROP
INV 10" S 639.62 (EX VCP LINED)
INV 12" W 633.62 (EX VCP LINED)
INV 12" E 633.47

660 655 650 645 640 635 630 625 620

7+00 7+25 7+50 7+75 8+00 8+25 8+50 8+75 9+00 9+25 9+50 9+75 10+00 10+25 10+50 10+75 11+00 11+25 11+50 11+75 12+00 12+25 12+50 12+75 13+00

PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 538	E



5

5

660

655

650

645

640

635

630

625

620

NOTES:

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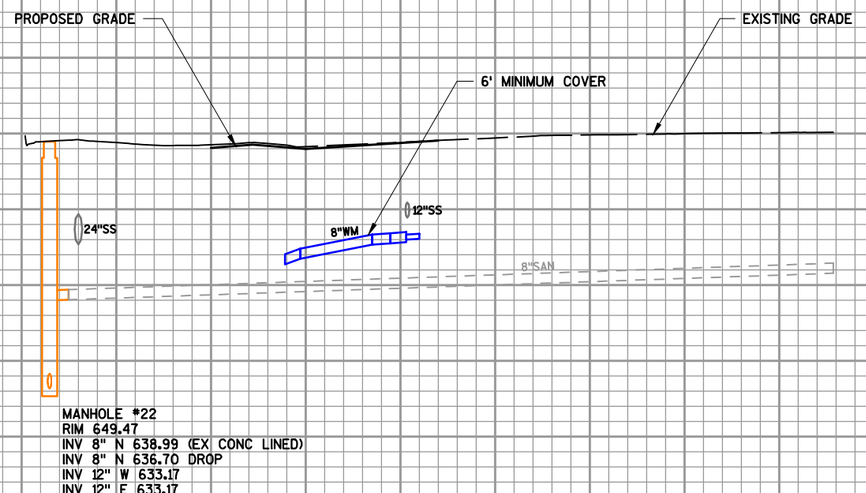

8+00 8+25 8+50 8+75 9+00 9+25 9+50 9+75 10+00 10+25 10+50 10+75 11+00 11+25 11+50 11+75 12+00 12+25 12+50 12+75 13+00 13+25 13+50 13+75 14+00

PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 539 E

8"-45° BEND
STA 10+40ELM, 7'RT

REMOVE & NEW
MANHOLE #21

ELM STREET

CONNECT TO EX 6"WM
W/ 6" SLEEVE
STA 10+59ELM, 3'RT
8"-45° BEND
8" X 6" REDUCER

USH 10/STH 42 (WALDO BLVD)

0 40 80

NOTES:

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2. ELEVATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND NEED TO BE FIELD VERIFIED DURING CONSTRUCTION.
3. SEE MISCELLANEOUS QUANTITIES FOR REMOVAL ITEMS.

PROPOSED GRADE
6' MINIMUM COVER
EXISTING GRADE
24"SS
15"SS
12"SS
6"WM
8"WM
12"SAN

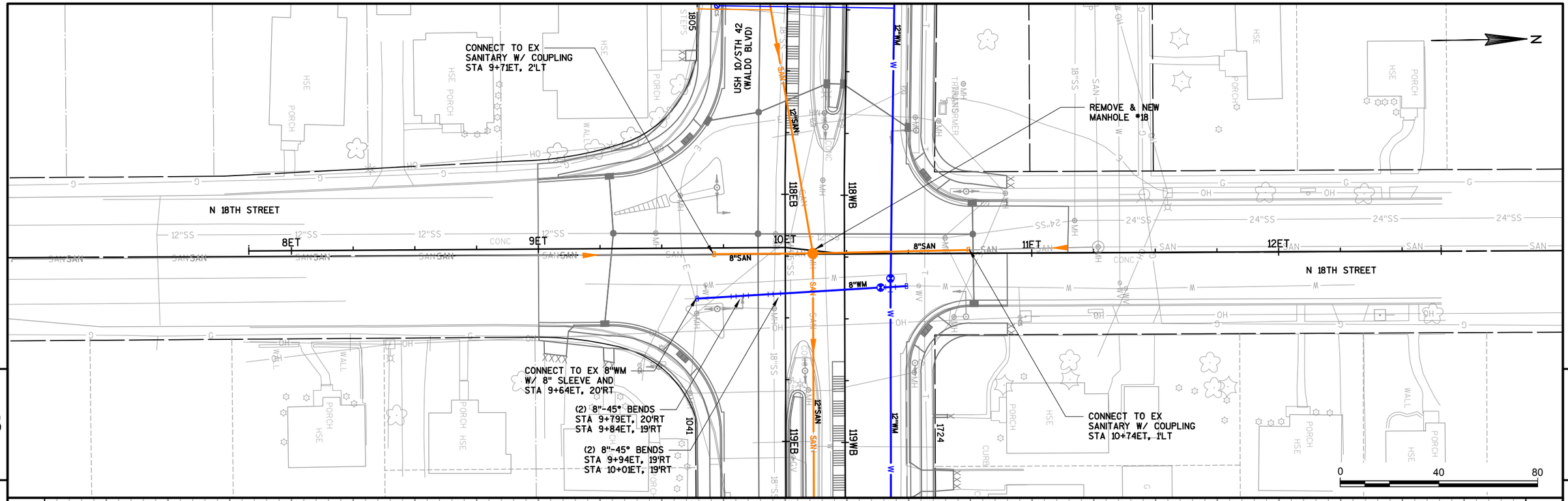
660 655 650 645 640 635 630 625 620

8+00 8+25 8+50 8+75 9+00 9+25 9+50 9+75 10+00 10+25 10+50 10+75 11+00 11+25 11+50 11+75 12+00 12+25 12+50 12+75 13+00 13+25 13+50 13+75 14+00

PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 540 E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\WM_SAN_ELM_STREET.DWG
LAYOUT NAME - 1500_37_72_023022_UP

PLOT DATE : 7/25/2018 2:43 PM PLOT BY : SHALLOW, JON PLOT NAME : PLOT SCALE : 1 IN:40 FT



NOTES:

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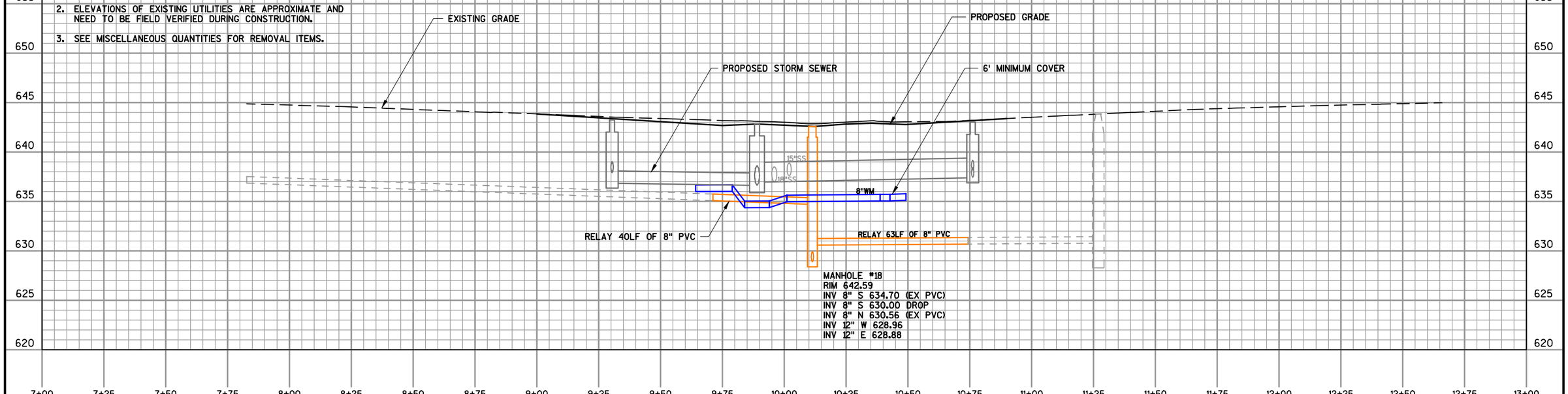
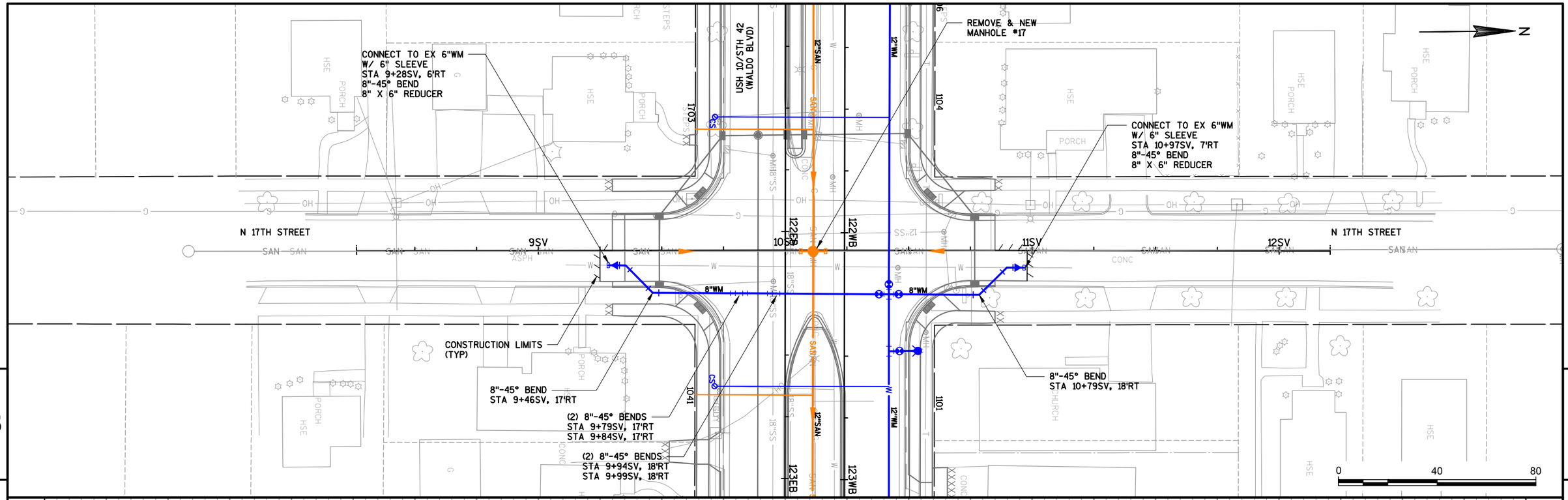


PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 541 E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\WM_SAN_N_18TH_STREET.DWG
LAYOUT NAME - 1500_37_72_023023_UP

PLOT DATE : 7/25/2018 2:47 PM PLOT BY : SHALLOW, JON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44



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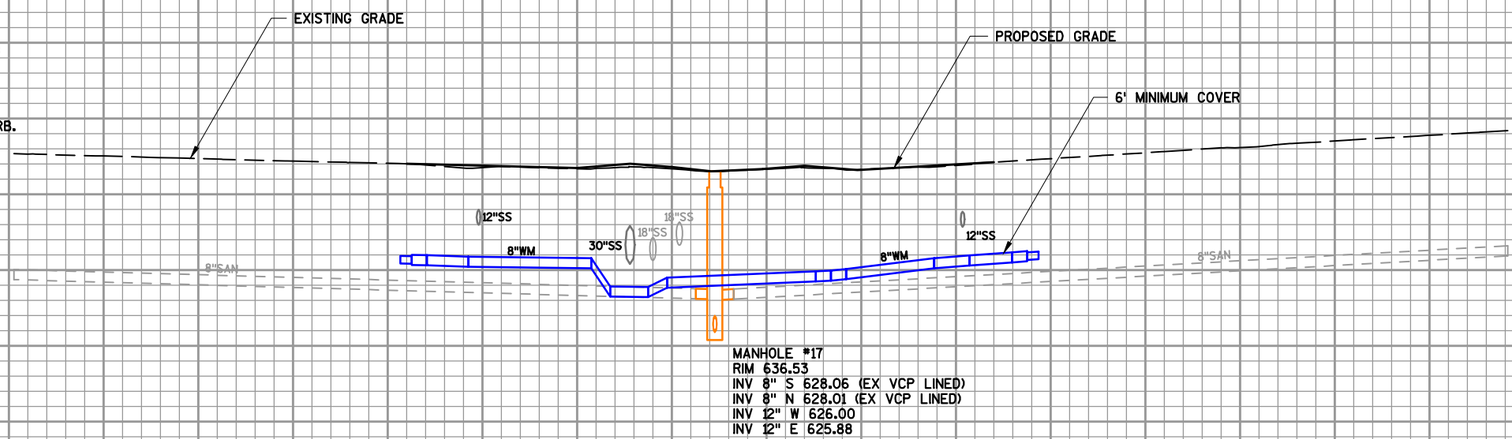
4. SEE MISCELLANEOUS QUANTITIES FOR REMOVAL ITEMS.



650 645 640 635 630 625 620 615 610

7+00 7+25 7+50 7+75 8+00 8+25 8+50 8+75 9+00 9+25 9+50 9+75 10+00 10+25 10+50 10+75 11+00 11+25 11+50 11+75 12+00 12+25 12+50 12+75 13+00

PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 542	E

8" X 6" TEE
STA 9+43ST, 9'RT

CONNECT TO EX 6"WM
W/ 6" SLEEVE
STA 9+27ST, 6'RT
(2) 8"-45° BENDS
8" X 6" REDUCER

CONSTRUCTION LIMITS

REMOVE & NEW
MANHOLE #16

USH 10/STH 42 (WALDO BLVD)

N 16TH STREET

9ST 10ST 11ST 12ST

8"WM

HYDRANT
STA 9+43ST, 20'RT
6" GV & BOX
SEE NOTE 3

(2) 8"-45° BENDS
STA 9+79ST, 9'RT
STA 9+84ST, 9'RT

(2) 8"-45° BENDS
STA 9+94ST, 9'RT
STA 9+99ST, 9'RT

CONNECT TO EX 6"WM
W/ 6" SLEEVE
STA 10+80ST, 6'RT
(2) 8"-45° BENDS
8" X 6" REDUCER

0 40 80

NOTES:

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2. ELEVATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND NEED TO BE FIELD VERIFIED DURING CONSTRUCTION.
3. ALL HYDRANTS TO BE INSTALLED 1-FOOT FROM FACE OF SIDEWALK. ALL HYDRANT LEAD VALVES ON WALDO BLVD TO BE INSTALLED BETWEEN 12-INCH TEE AND PAN OF CURB. ALL HYDRANT LEAD VALVES ON SIDE STREETS TO BE INSTALLED BETWEEN BACK OF CURB AND HYDRANT.
4. SEE MISCELLANEOUS QUANTITIES FOR REMOVAL ITEMS.

EXISTING GRADE
PROPOSED GRADE
6' MINIMUM COVER
MANHOLE #16
12"SS
8"WM
36"SS
21"SS
8"SAN

MANHOLE #16
RIM 633.34
INV 8" N 624.32 (EX VCP LINED)
INV 8" S 624.32 (EX VCP LINED)
INV 12" W 622.85
INV 12" E 622.74

645 640 635 630 625 620 615 610 605

7+00 7+25 7+50 7+75 8+00 8+25 8+50 8+75 9+00 9+25 9+50 9+75 10+00 10+25 10+50 10+75 11+00 11+25 11+50 11+75 12+00 12+25 12+50 12+75 13+00

PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 543	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\WM_SAN_N_16TH_STREET.DWG
LAYOUT NAME - 1500_37_72_023025_UP

PLOT DATE : 7/25/2018 2:53 PM PLOT BY : SHALLOW, JON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

MANHOLE #15A
STA 9+64FT, 0'
CONNECT TO EX
SANITARY W/ COUPLING

8" X 6" TEE
STA 9+53FT, 9'RT

CONNECT TO EX 6"WM
W/ 6" SLEEVE
STA 9+38FT, 6'RT
(2) 8"-45° BENDS
8" X 6" REDUCER

REMOVE & NEW
MANHOLE #15

N 15TH STREET

N 15TH STREET

9FT

10FT

11FT

12FT

8"SAN

8"WM

8"WM

HYDRANT
STA 9+53FT, 20'RT
6" GV & BOX
SEE NOTE 3

(2) 8"-45° BENDS
STA 9+79FT, 9'RT
STA 9+84FT, 9'RT

(2) 8"-45° BENDS
STA 9+94FT, 9'RT
STA 9+99FT, 9'RT

CONNECT TO EX 6"WM
W/ 6" SLEEVE
STA 10+95FT, 6'RT
(2) 8"-45° BENDS
8" X 6" REDUCER

USH 10/STH 42 (WALDO BLVD)

12"SAN

12"WM

12"SAN

12"WM

1503

1106

1041

128EB

128WB

129EB

129WB

N

0 40 80

5

5

645

640

635

630

625

620

615

610

605

NOTES:

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4. SEE MISCELLANEOUS QUANTITIES FOR REMOVAL ITEMS.

EXISTING GRADE

PROPOSED GRADE

6' MINIMUM COVER

15"SS

8"WM

36"SS

21"SS

21"SS

18"SS

8"WM

8"SAN

8"SAN

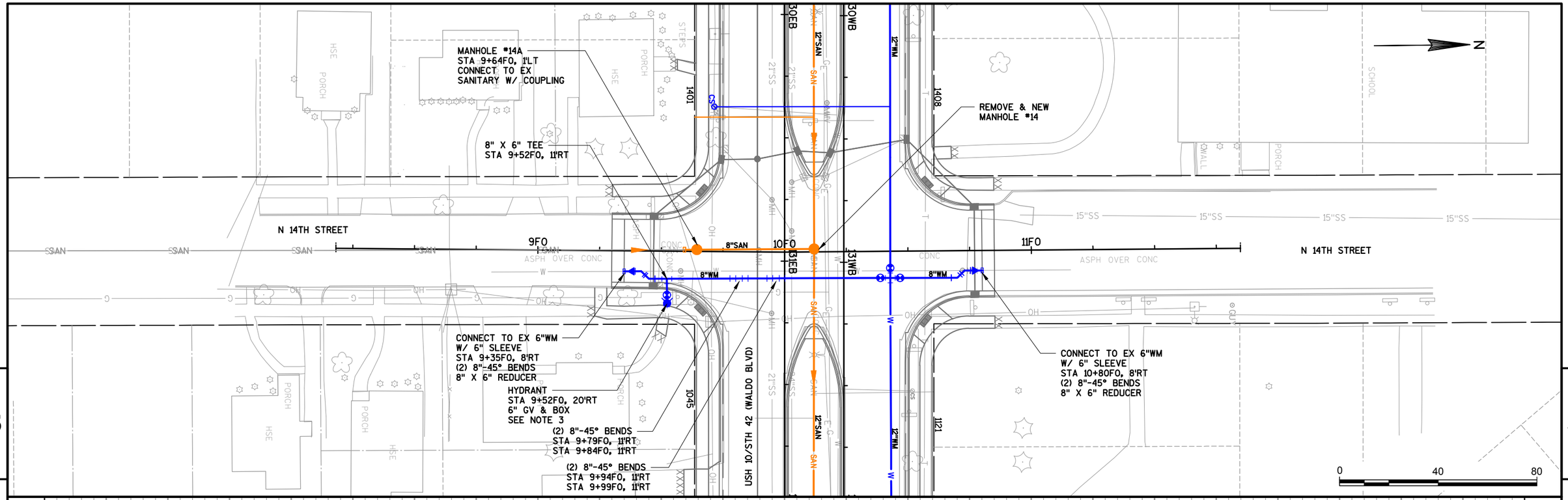
MANHOLE #15A
RIM 632.75
INV 8" S 624.50 (EX VCP)
INV 8" N 622.35

MANHOLE #15
RIM 632.26
INV 8" N 622.16 (EX VCP LINED)
INV 8" S 621.87
INV 12" W 620.50
INV 12" E 620.40

RELAY 48LF OF 8" PVC @ 1.00%

7+00 7+25 7+50 7+75 8+00 8+25 8+50 8+75 9+00 9+25 9+50 9+75 10+00 10+25 10+50 10+75 11+00 11+25 11+50 11+75 12+00 12+25 12+50 12+75 13+00

PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 544	E



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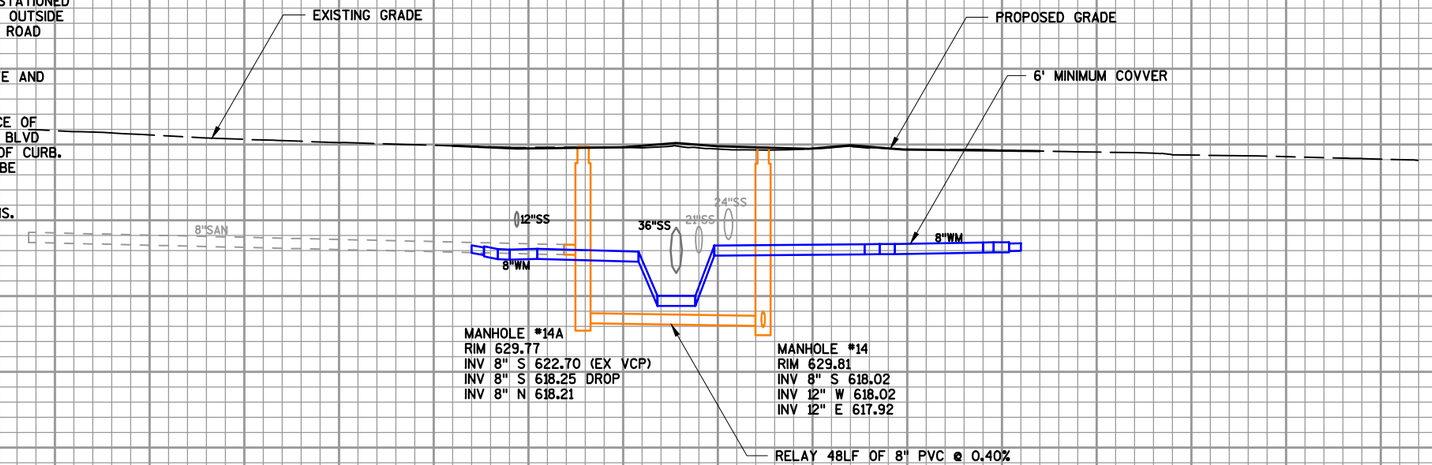
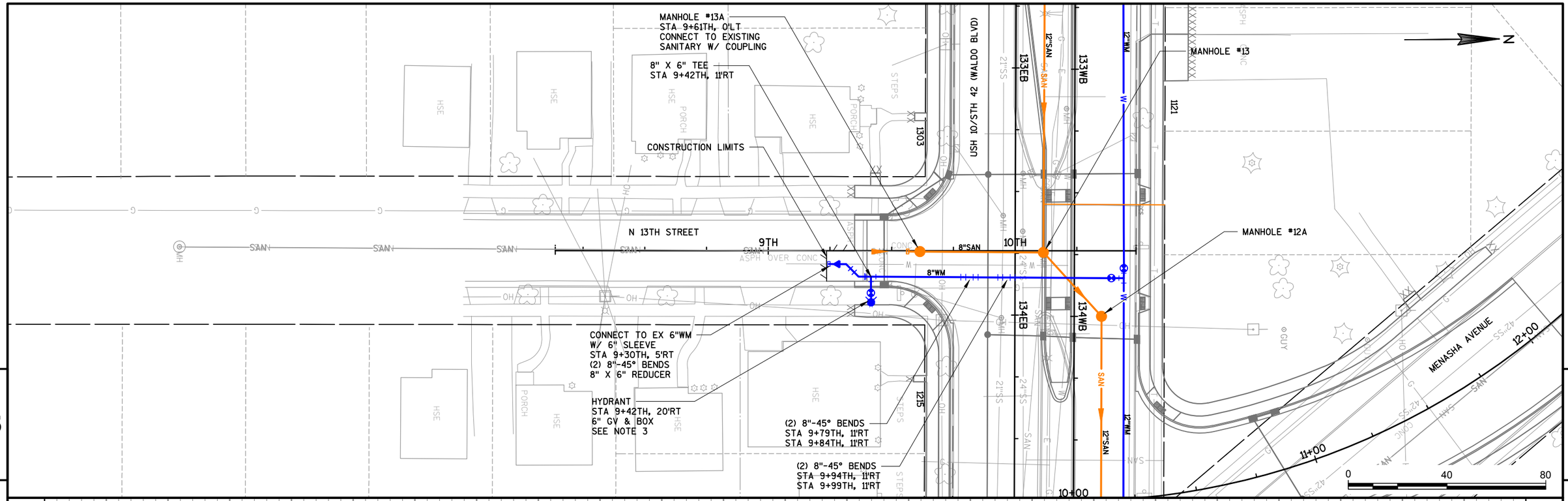


PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 545	E



5

5

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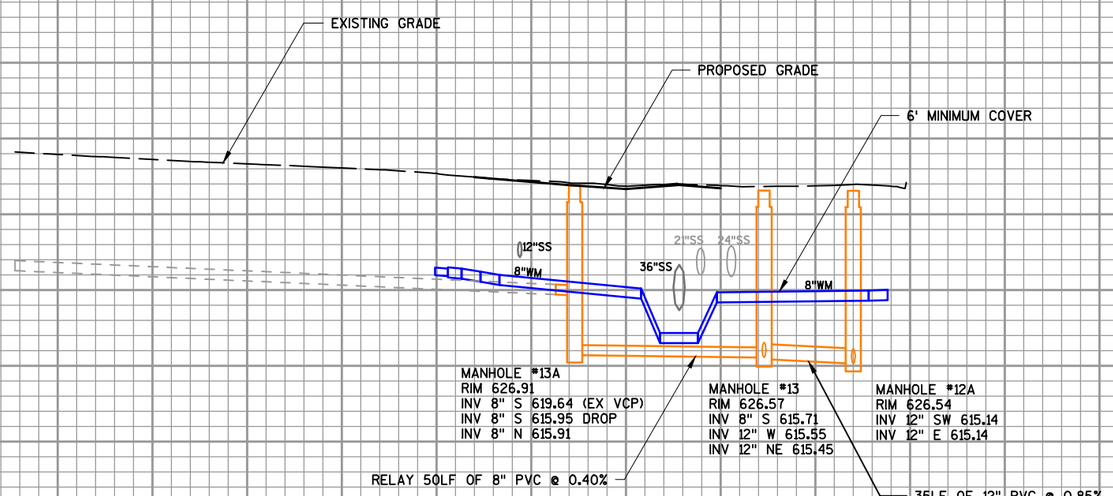
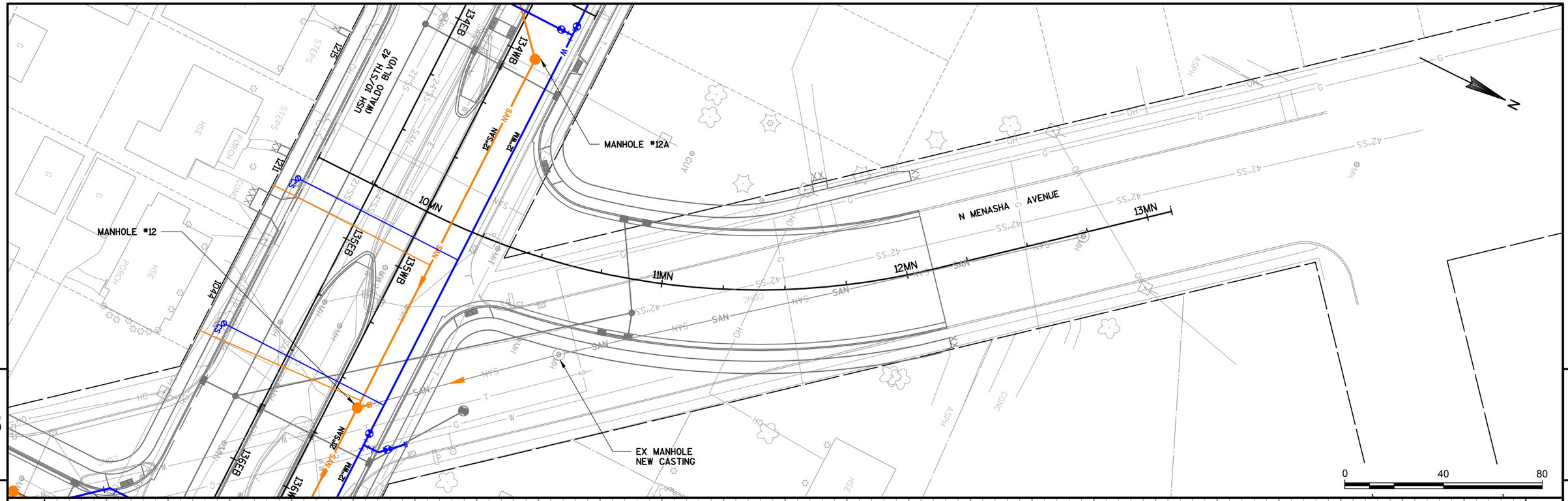


640 635 630 625 620 615 610 605 600

6+00 6+25 6+50 6+75 7+00 7+25 7+50 7+75 8+00 8+25 8+50 8+75 9+00 9+25 9+50 9+75 10+00 10+25 10+50 10+75 11+00 11+25 11+50 11+75 12+00

PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 546 E



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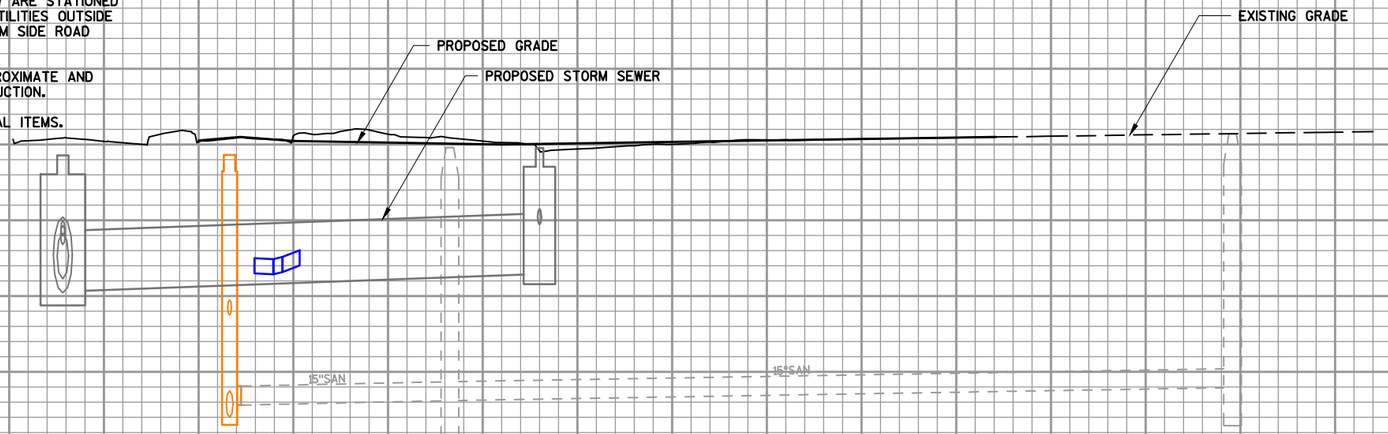
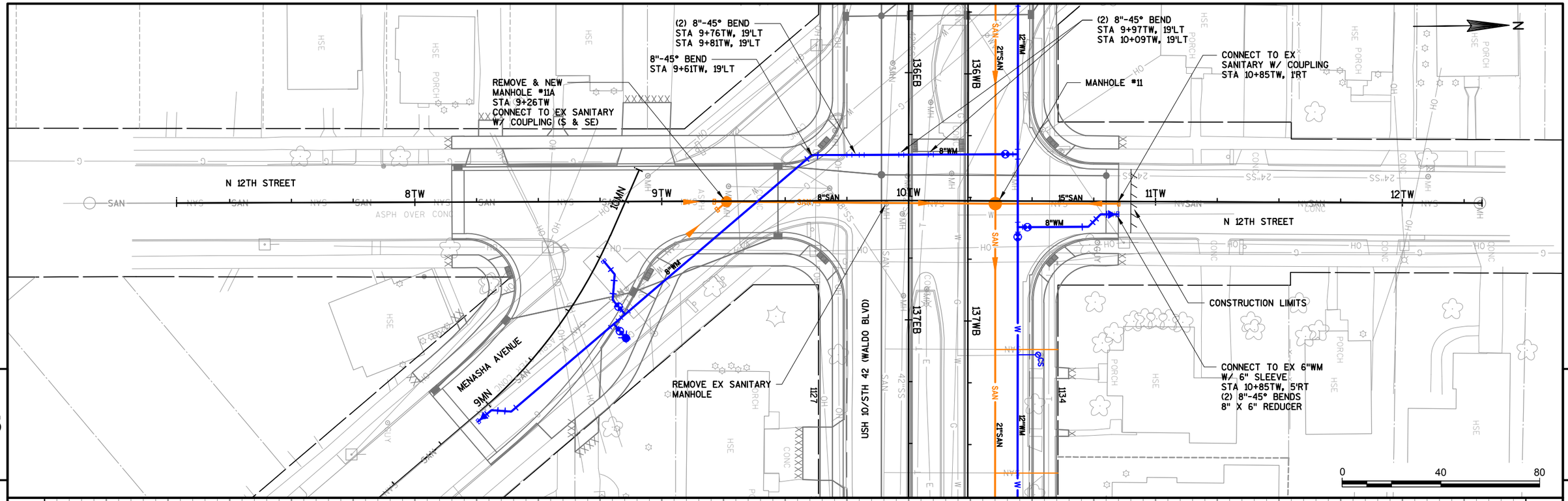
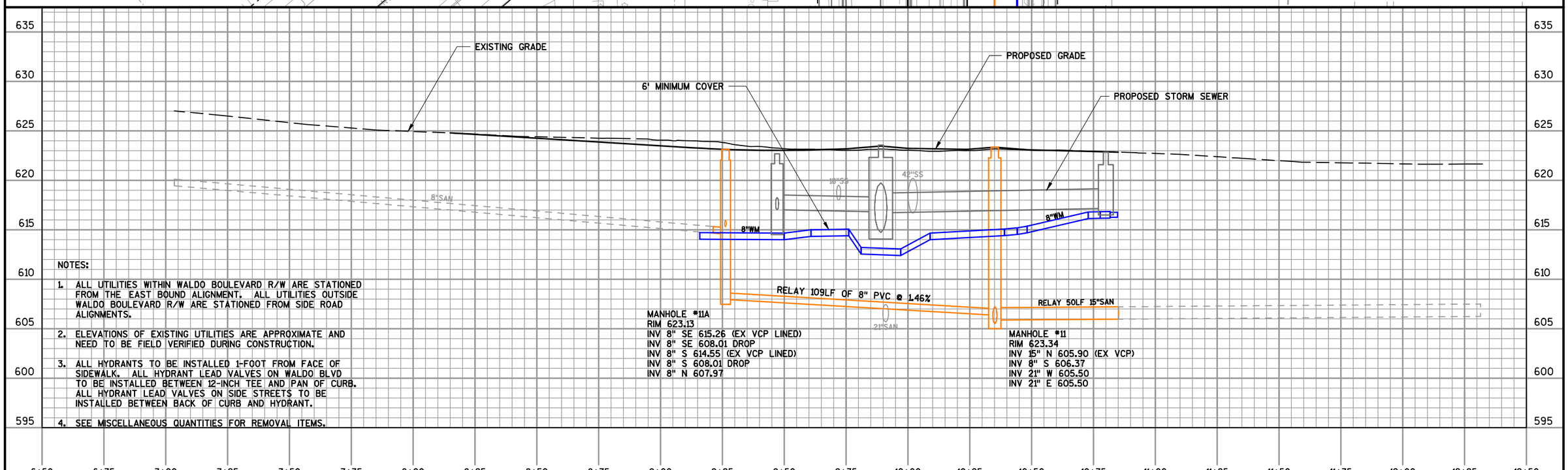


PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 547 E





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4. SEE MISCELLANEOUS QUANTITIES FOR REMOVAL ITEMS.

PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 548 E

CONNECT TO EX 8"WM
W/ 8" SLEEVE
STA 9+75MN, 2'RT
(2) 8"-45° BENDS

8" X 6" TEE
STA 9+55MN, 18'RT

CONNECT TO EX 6"WM
W/ 6" SLEEVE
STA 8+93MN, 18'RT
(2) 8"-45° BENDS
8" X 6" REDUCER

HYDRANT
STA 9+53MN, 25'RT
6" GV & BOX (S)
SEE NOTE 3

8" TEE
STA 9+61MN, 20'RT
8" GV & BOX (S)

N 12TH STREET

MENASHA AVENUE

USH 10/STH 42 (WALDO BLVD)

0 40 80

PROPOSED GRADE

EXISTING GRADE

6' MINIMUM COVER

8"SAN

8"WM

15"SS

NOTES:

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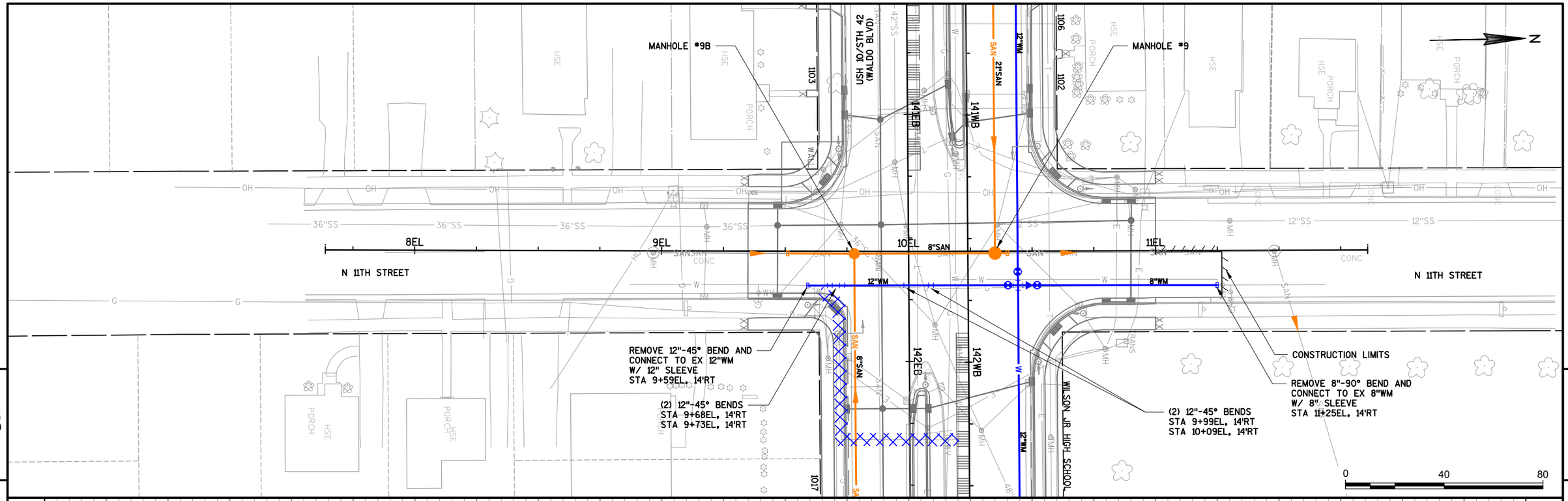
PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 549 E



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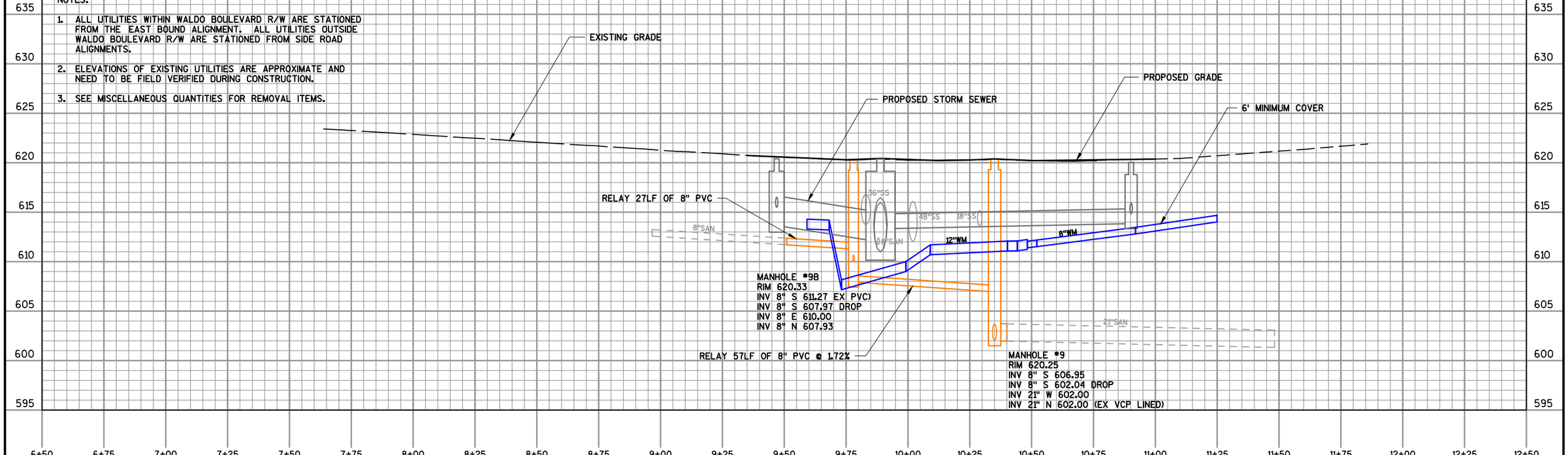
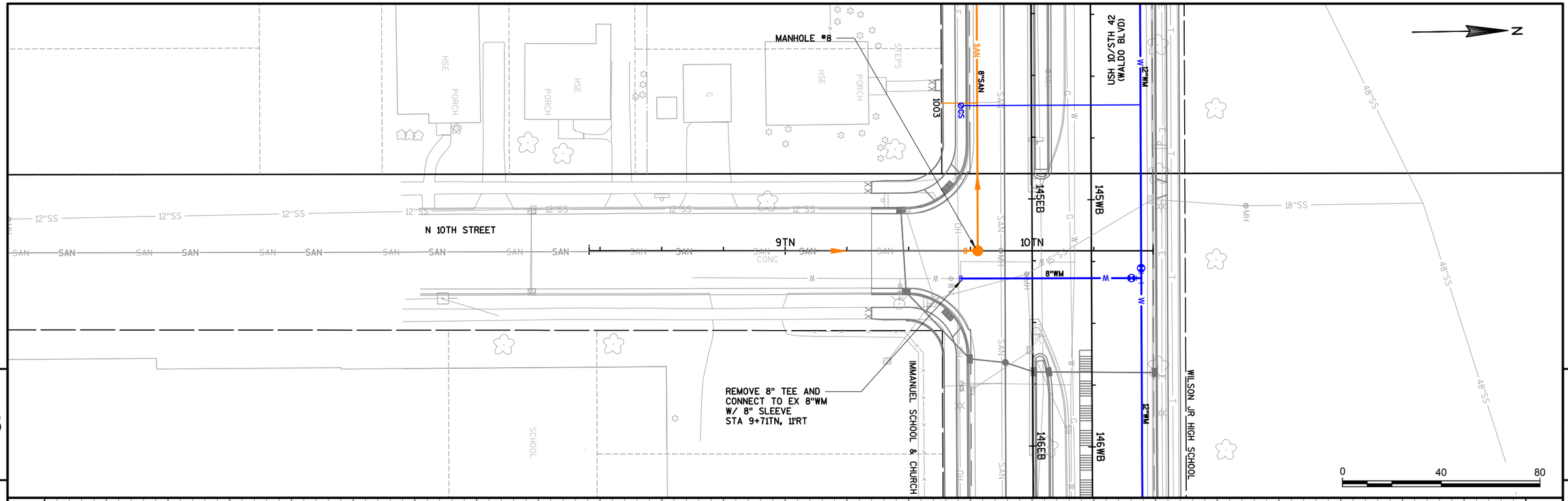


PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 550	E



5

5

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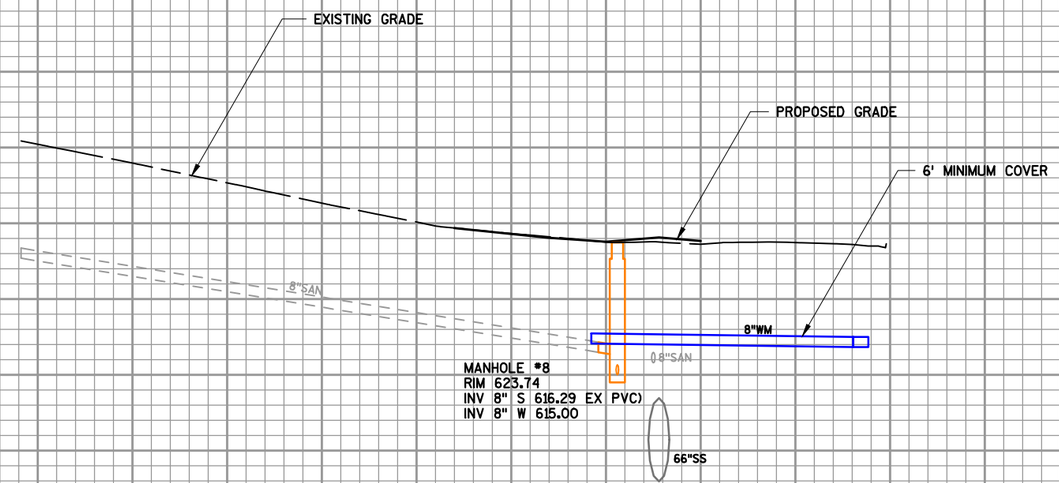

640 635 630 625 620 615 610 605 600

6+00 6+25 6+50 6+75 7+00 7+25 7+50 7+75 8+00 8+25 8+50 8+75 9+00 9+25 9+50 9+75 10+00 10+25 10+50 10+75 11+00 11+25 11+50 11+75 12+00

PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 551 E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\WM_SAN_N_10TH_STREET.DWG
LAYOUT NAME - 1500_37_72_023033_UP
PLOT DATE : 7/25/2018 3:18 PM PLOT BY : SHALLOW, JON PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

MANHOLE *7A

8" X 6" TEE
STA 9+52NN, 11'RT

CONNECT TO EXISTING 6"WM
W/ 6" SLEEVE, 8"X6" REDUCER
AND (2) 8"-45° BENDS
STA 9+05NN, 6'RT

USH 10/STH 42 (WALDO BLVD)

148EB

148WB

N 9TH STREET

9NN

10NN

11NN

12NN

8"SAN

8"WM

10"WM

21"SAN

10"SAN

REMOVE & NEW
MANHOLE *16-74

NEW CASTING
MANHOLE *16-75

REMOVE EXISTING HYDRANT
HYDRANT
STA 9+52NN, 22'RT
6" GV & BOX (E)
SEE NOTE 3

(2) 8"-45° BEND
STA 9+67NN, 11'RT
STA 9+75NN, 11'RT

(2) 8"-45° BEND
STA 9+85NN, 11'RT
STA 9+96NN, 11'RT

819

817

149EB

149WB

820

MANHOLE *7

1109

1115

CONNECT TO EXISTING 10"WM
W/ 10" SLEEVE AND
(2) 10"-45° BENDS
STA 12+67NN, 8'RT

N

0 40 80

5

5

635

630

625

620

615

610

605

600

595

NOTES:

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4. SEE MISCELLANEOUS QUANTITIES FOR REMOVAL ITEMS.

MANHOLE *7A
RIM 629.53
INV 8" S 622.93 (EX VCP LINED)
INV 8" E 622.50

PROPOSED GRADE

6' MINIMUM COVER

EXISTING GRADE

8" SAN

8"WM

10"WM

PROPOSED STORM SEWER

MANHOLE *16-74
RIM 626.98
INV 8" S 618.00 (EX CONC LINED)
INV 10" N 613.60 (EX CONC LINED)
INV 10" N 599.00 (DROP)
INV 8" S 599.00 (DROP)
INV 21" W 597.28 (EX VCP LINED)
INV 21" E 597.23 (EX VCP LINED)

7+00 7+25 7+50 7+75 8+00 8+25 8+50 8+75 9+00 9+25 9+50 9+75 10+00 10+25 10+50 10+75 11+00 11+25 11+50 11+75 12+00 12+25 12+50 12+75 13+00

PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 552	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\WM_SAN_N_9TH_STREET.DWG
LAYOUT NAME - 1500_37_72_023034_UP

PLOT DATE : 7/25/2018 3:20 PM PLOT BY : SHALLOW, JON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

REMOVE EX SANITARY MANHOLE

MANHOLE #6A

USH 10/STH 42 (WALDO BLVD)

MANHOLE #6

MANHOLE #16-59 NEW CASTING

RECONNECT TO EX W/ 6"SAN LATERAL (TYP)

ABANDON

N 8TH STREET

9EG

10EG

11EG

12EG

1104

1108

1110

1116

1109

CONNECT TO EXISTING 12"WM W/ 12" SLEEVE AND (2) 12"-45° BENDS STA 8+55EG, 12'RT

CONNECT TO EXISTING 12"WM W/ 12" SLEEVE AND (2) 12"-45° BENDS STA 11+45EG, 8'RT

MANHOLE #6B

0 40 80

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PROPOSED GRADE

EXISTING GRADE

6' MINIMUM COVER

PROPOSED STORM SEWER

MANHOLE #6
RIM 623.47
INV 8" W 615.08 (EX VCP LINED)
INV 8" N 615.01 (EX VCP LINED)

MANHOLE #6A
RIM 623.91
INV 8" S 616.33 (EX VCP LINED)
INV 8" W 616.00
INV 8" E 615.12

630 625 620 615 610 605 600 595 590

7+50 7+75 8+00 8+25 8+50 8+75 9+00 9+25 9+50 9+75 10+00 10+25 10+50 10+75 11+00 11+25 11+50 11+75 12+00 12+25 12+50 12+75 13+00 13+25 13+50

PROJECT NO: 1500-37-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 553 E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\WM_SAN_N_8TH_STREET.DWG
LAYOUT NAME - 1500_37_72_023035_UP

PLOT DATE : 7/26/2018 7:09 AM PLOT BY : SHALLOW, JON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

MANHOLE #6

N 8TH ST

CONTRACT 1500-37-72
CONTRACT 4570-12-72

MANHOLE 6B

RECONNECT TO EXISTING
W/ 6" SANITARY LATERAL
(TYP)

USH 10/STH 42 (WALDO BLVD)

MANHOLE #6A

RECONNECT TO EXISTING
W/ 1 ¼" OD WATER SERVICE,
CURB STOP & BOX, CORP
STOP (TYP)

N

0 40 80

820 812 1104 728 722 716 1104

149WB 150WB 151WB 152WB 153WB 154WB 155WB

149EB 150EB 151EB 152EB 153EB 154EB 155EB

19 817 1028 725 719 711 1030

12"WM 8"SAN 8"SAN

5 5

625 620 615 610 605 600 595 590 585

12"WM

EXISTING GRADE

PROPOSED GRADE

6' MINIMUM COVER

MANHOLE #6B
RIM 621.72
INV 8" E 613.74 (EX VCP LINED)

MANHOLE #6A
RIM 623.91
INV 8" S 616.33 (EX VCP LINED)
INV 8" W 616.00
INV 8" E 615.12

MANHOLE #6
RIM 623.47
INV 8" W 615.08 (EX VCP LINED)
INV 8" N 615.01 (EX VCP LINED)

423LF OF 8" PVC @ 4.24%

PROPOSED STORM SEWER

NOTES:

1. ALL UTILITIES WITHIN WALDO BOULEVARD R/W ARE STATIONED FROM THE EAST BOUND ALIGNMENT. ALL UTILITIES OUTSIDE WALDO BOULEVARD R/W ARE STATIONED FROM SIDE ROAD ALIGNMENTS.
2. ELEVATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND NEED TO BE FIELD VERIFIED DURING CONSTRUCTION.
3. ALL HYDRANTS TO BE INSTALLED 1-FOOT FROM FACE OF SIDEWALK. ALL HYDRANT LEAD VALVES ON WALDO BLVD TO BE INSTALLED BETWEEN 12-INCH TEE AND PAN OF CURB. ALL HYDRANT LEAD VALVES ON SIDE STREETS TO BE INSTALLED BETWEEN BACK OF CURB AND HYDRANT.
4. SEE MISCELLANEOUS QUANTITIES FOR REMOVAL ITEMS.

149+00 149+25 149+50 149+75 150+00 150+25 150+50 150+75 151+00 151+25 151+50 151+75 152+00 152+25 152+50 152+75 153+00 153+25 153+50 153+75 154+00 154+25 154+50 154+75 155+00

PROJECT NO: 4570-12-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 554	E

REMOVE & NEW MANHOLE #4 STA 155+15EB, 36'LT CONNECT TO EX SAN W/ COUPLING

12" X 8" CROSS STA 155+89EB, 44'LT 8" GV & BOX (N & S) 12" GV & BOX (W)

REMOVE AND NEW MANHOLE #3 STA 156+23EB, 19'LT CONNECT TO EX SANITARY W/ COUPLINGS

RECONNECT TO EX W/ 6"SAN LATERAL (TYP)

REMOVE AND NEW MANHOLE #2 STA 159+85EB, 20'LT CONNECT TO EX SANITARY W/ COUPLINGS

12" X 8" CROSS STA 159+95EB, 44'LT 8" GV & BOX (N & S) 12" GV & BOX (W)

HYDRANT STA 160+94EB, 53'LT SEE NOTE 3

N

SB LINCOLN BLVD

NB LINCOLN BLVD

N 6TH ST

USH 10/STH 42 (WALDO BLVD)

ABANDON

12" X 6" TEE STA 160+94EB, 44'LT 6" GV & BOX

REMOVE EX SANITARY MANHOLE

REMOVE AND NEW MANHOLE #4B STA 155+60EB, 19'LT CONNECT TO EX SAN W/ COUPLINGS

REMOVE EX SANITARY MANHOLE

MANHOLE #4A STA 155+60EB, 21'RT CONNECT TO EX SAN W/ COUPLING

MANHOLE #3A STA 156+23EB, 21'RT CONNECT TO EX SANITARY W/ COUPLING

RECONNECT TO EX W/ 1 1/4" OD WATER SERVICE, CURB STOP & BOX, CORP STOP (TYP)

MANHOLE #1A STA 159+57EB, 21'RT

REMOVE AND NEW MANHOLE #1 STA 159+85EB, 35'RT CONNECT TO EX SANITARY W/ COUPLINGS

0 40 80

NOTES:

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4. SEE MISCELLANEOUS QUANTITIES FOR REMOVAL ITEMS.

EXISTING GRADE

PROPOSED GRADE

6' MINIMUM COVER

PROPOSED STORM SEWER

423LF OF 8" PVC @ 4.24%

63LF OF 8" PVC @ 2.54%

335LF OF 8" PVC @ 1.30%

31LF OF 8" PVC @ 1.29%

MANHOLE #4
RIM 608.77
INV 8" W 603.80 (LINED)
INV 8" SE 600.16 (LINED)

MANHOLE #4A
RIM 608.03
INV 8" S 599.33 (EX VCP LINED)
INV 8" W 597.18
INV 8" E 597.14

MANHOLE #4B
RIM 607.61
INV 8" W 598.51 (EX VCP LINED)
INV 8" W 590.06 DROP
INV 24" E 589.16 (EX VCP LINED)
INV 24" N 589.24 (EX VCP LINED)

MANHOLE #3A
RIM 606.97
INV 8" S 597.64 (EX VCP LINED)
INV 8" W 595.54
INV 8" E 595.50

MANHOLE #3
RIM 606.69
INV 8" N 597.58 (EX VCP LINED)
INV 8" N 589.93 DROP
INV 24" W 588.83 (LINED)
INV 24" E 588.83 (LINED)

MANHOLE #1A
RIM 601.50
INV 8" W 591.20
INV 8" SE 591.20

MANHOLE #1A
RIM 601.50
INV 8" W 591.15
INV 8" SE 591.11

MANHOLE #1
RIM 601.31
INV 8" NW 590.71
INV 8" E 587.71 (EX VCP LINED)
INV 24" N 587.60
INV 24" S 587.58 (EX VCP LINED)

MANHOLE #2
RIM 601.94
INV 8" N 593.76 (EX VCP LINED)
INV 8" N 588.70 DROP
INV 24" W 587.89 (EX VCP LINED)
INV 24" S 587.70

620 615 610 605 600 595 590 585 580

155+00 155+25 155+50 155+75 156+00 156+25 156+50 156+75 157+00 157+25 157+50 157+75 158+00 158+25 158+50 158+75 159+00 159+25 159+50 159+75 160+00 160+25 160+50 160+75 161+00

PROJECT NO: 4570-12-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 555	E

(2) 8"-45° BEND
STA 161+11EB, 44'LT
STA 161+16EB, 44'LT

(2) 12"-45° BEND
STA 161+55EB, 44'LT
STA 161+60EB, 44'LT

CONNECT TO EXISTING 8"WM
W/ 8" SLEEVE
STA 163+63EB, 51'LT
12" X 8" TEE
STA 163+63EB, 44'LT
8" GV & BOX (N)
12" GV & BOX (W)

MANHOLE *16-135
NEW CASTING &
CHIMNEY SEAL

MANHOLE *16-136
NEW CASTING &
CHIMNEY SEAL

12"-45° BEND
STA 163+78EB, 44'LT

MANHOLE *16-130
NEW CASTING

N

USH 10/STH 42 (WALDO BLVD)

N 5TH ST

10F

161WB 162WB 163WB 164WB 165WB 166WB 167WB

161EB 162EB 163EB 164EB 165EB 166EB 167EB

12"WM

8"SAN

CONNECT TO EXISTING 12"WM
W/ 12" SLEEVE
STA 164+15EB, 21'LT
12"-45° BEND
STA 164+01EB, 20'LT

MANHOLE *16-129
NEW CASTING

MANHOLE *16-29
NEW CASTING

RECONNECT TO EXISTING
W/ 1 ¼" OD WATER SERVICE,
CURB STOP & BOX, CORP
STOP (TYP)

REMOVE & NEW
MANHOLE *16-28
STA 163+52, 28'RT

515

0 40 80

5 5

6' MINIMUM COVER

PROPOSED GRADE

PROPOSED STORM SEWER

EXISTING GRADE

12"WM

MANHOLE *16-28
RIM 598.86
INV 8" E 588.69 (EX VCP LINED)
INV 8" W 588.61 (EX VCP LINED)

605 600 595 590 585 580 575 570 565

161+00 161+25 161+50 161+75 162+00 162+25 162+50 162+75 163+00 163+25 163+50 163+75 164+00 164+25 164+50 164+75 165+00 165+25 165+50 165+75 166+00 166+25 166+50 166+75 167+00

NOTES:

1. ALL UTILITIES WITHIN WALDO BOULEVARD R/W ARE STATIONED FROM THE EAST BOUND ALIGNMENT. ALL UTILITIES OUTSIDE WALDO BOULEVARD R/W ARE STATIONED FROM SIDE ROAD ALIGNMENTS.
2. ELEVATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND NEED TO BE FIELD VERIFIED DURING CONSTRUCTION.
3. ALL HYDRANTS TO BE INSTALLED 1-FOOT FROM FACE OF SIDEWALK. ALL HYDRANT LEAD VALVES ON WALDO BLVD TO BE INSTALLED BETWEEN 12-INCH TEE AND PAN OF CURB. ALL HYDRANT LEAD VALVES ON SIDE STREETS TO BE INSTALLED BETWEEN BACK OF CURB AND HYDRANT.
4. SEE MISCELLANEOUS QUANTITIES FOR REMOVAL ITEMS.

PROJECT NO: 4570-12-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 556 E

REMOVE EX SANITARY MANHOLE
MANHOLE *4A
(2) 8"-45° BENDS
STA 9+67SL, 29'RT
STA 9+70SL, 26'RT
8" X 6" TEE
STA 9+50SL, 29'RT
USH 10/STH 42 (WALDO BLVD)
155EB
155WB
156EB
156WB
REMOVE & NEW MANHOLE *4
REMOVE & NEW MANHOLE *4B
(2) 8"-45° BENDS
STA 10+25SL, 26'RT
STA 10+36SL, 26'RT
9SL
10SL
11SL
12SL
8"SAN
SB LINCOLN BLVD
ASPH OVER CONC
8"WM
9NL
10NL
11NL
12NL
CONNECT TO EXISTING 6"WM
W/ 6" SLEEVE
8" X 6" REDUCER
STA 9+43SL, 29'RT
HYDRANT
STA 9+50SL, 43'RT
6" GV & BOX
MANHOLE *3A
REMOVE & NEW MANHOLE *3
CONNECT TO EXISTING 6"WM
W/ 6" SLEEVE, 8"X6" REDUCER
AND (2) 8"-45° BENDS
STA 10+99SL, 30'RT
1025
0 40 80

NOTES:

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3. SEE MISCELLANEOUS QUANTITIES FOR REMOVAL ITEMS.

EXISTING GRADE
PROPOSED GRADE
6' MINIMUM COVER

MANHOLE *4A
RIM 608.03
INV 8" S 599.33 (EX VCP LINED)
INV 8" W 597.18
INV 8" E 597.14

MANHOLE *4B
RIM 607.61
INV 8" W 598.51 (EX VCP LINED)
INV 8" W 590.06 DROP
INV 24" E 589.16 (EX VCP LINED)
INV 24" N 589.24 (EX VCP LINED)

8"SAN
66"SS
8"SAN
15"SS
8"SAN
8"WM
24"SAN
8"SAN

620 615 610 605 600 595 590 585 580

7+00 7+25 7+50 7+75 8+00 8+25 8+50 8+75 9+00 9+25 9+50 9+75 10+00 10+25 10+50 10+75 11+00 11+25 11+50 11+75 12+00 12+25 12+50 12+75 13+00

PROJECT NO: 4570-12-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 557	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\WM_SAN_SB_LINCOLN_BLVD.DWG
LAYOUT NAME - 4570_12_72_023004_UP
PLOT DATE : 9/20/2018 7:33 AM PLOT BY : SHALLOW, JON PLOT NAME : PLOT SCALE : 1 IN:40 FT

MANHOLE *4A

REMOVE & NEW MANHOLE *4B

N

NB LINCOLN BLVD

NB LINCOLN BLVD

MANHOLE *3A

REMOVE & NEW MANHOLE *3

0 40 80

5

5

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4. SEE MISCELLANEOUS QUANTITIES FOR REMOVAL ITEMS.

EXISTING GRADE

PROPOSED GRADE

8"SAN

12"SS

12"SS

8"SAN

MANHOLE *3A
RIM 606.97
INV 8" S 597.64 (EX VCP LINED)
INV 8" W 595.54
INV 8" E 595.50

66"SS

60"SS

8"SAN

MANHOLE *3
RIM 606.69
INV 8" N 597.58 (EX VCP LINED)
INV 24" W 588.83 (LINED)
INV 24" E 588.83 (LINED)

620 615 610 605 600 595 590 585 580

7+00 7+25 7+50 7+75 8+00 8+25 8+50 8+75 9+00 9+25 9+50 9+75 10+00 10+25 10+50 10+75 11+00 11+25 11+50 11+75 12+00 12+25 12+50 12+75 13+00

PROJECT NO: 4570-12-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 558	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\WM_SAN_NB_LINCOLN_BLVD.DWG
LAYOUT NAME - 4570_12_72_023005_UP

PLOT DATE : 9/20/2018 7:34 AM PLOT BY : SHALLOW, JON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

MANHOLE #1A

REMOVWE & NEW MANHOLE #1

CONNECT TO EXISTING 6"WM W/ 6" SLEEVE, 8"X6" REDUCER AND (2) 8"-45° BENDS STA 9+30SX, 5'RT

MANHOLE #2

N 6TH STREET

9SX

24"SAN

10SX

11SX

8"WM

8"WM

N 6TH STREET

CONSTRUCTION LIMITS

(2) 8"-45° BENDS STA 9+70SX, 9'RT STA 9+83SX, 9'RT

(2) 8"-45° BENDS STA 9+94SX, 9'RT STA 10+07SX, 8'RT

USH 10/STH 42 (WALDO BLVD)

CONNECT TO EXISTING 6"WM W/ 6" SLEEVE, 8"X6" REDUCER AND (2) 8"-45° BENDS STA 10+95SX, 5'RT

N

0 40 80

5

5

NOTES:

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EXISTING GRADE

PROPOSED GRADE

6' MINIMUM COVER

12"SS

72"SS

12"SS

8"SAN

60"SS

24"SAN

24"SAN

MANHOLE #1
RIM 601.31
INV 8" NW 590.71
INV 8" E 587.71 (EX VCP LINED)
INV 24" N 587.60
INV 24" S 587.58 (EX VCP LINED)

MANHOLE #2
RIM 601.94
INV 8" N 593.76 (EX VCP LINED)
INV 8" N 588.70 DROP
INV 24" W 587.89 (EX VCP LINED)
INV 24" S 587.70

RELAY 55LF OF 24" PVC (C900) @ 0.18%

615 610 605 600 595 590 585 580 575

7+00 7+25 7+50 7+75 8+00 8+25 8+50 8+75 9+00 9+25 9+50 9+75 10+00 10+25 10+50 10+75 11+00 11+25 11+50 11+75 12+00 12+25 12+50 12+75 13+00

PROJECT NO: 4570-12-72	HWY: USH 10	COUNTY: MANITOWOC	PLAN AND PROFILE: SANITARY SEWER AND WATER MAIN	SHEET 559	E

MANHOLE #16-136
NEW CASTING &
CHIMNEY SEAL

MANHOLE #16-135
NEW CASTING &
CHIMNEY SEAL

LOWER WATER MAIN BELOW INLET
LEAD PER CONSTRUCTION DETAILS

MANHOLE #16-130
NEW CASTING

MANHOLE #16-33
NEW CASTING

USH 10/STH 42 (WALDO BLVD)

N 5TH ST

163WB 164WB 165WB 166WB 167WB 168WB 169WB

163EB 164EB 165EB 166EB 167EB 168EB 169EB

REMOVE & NEW
MANHOLE #16-28
STA 163+52, 28'RT
RIM 598.86
INV 8" E 588.69 (EX VCP LINED)
INV 8" W 588.61 (EX VCP LINED)

MANHOLE #16-129
NEW CASTING

MANHOLE #16-29
NEW CASTING

LOWER WATER MAIN BELOW INLET
LEAD PER CONSTRUCTION DETAILS

0 40 80

LOWER WATER MAIN BELOW INLET
LEAD PER CONSTRUCTION DETAILS

LOWER WATER MAIN BELOW INLET
LEAD PER CONSTRUCTION DETAILS

USH 10/STH 42 (WALDO BLVD)

170WB 171WB 172WB 173WB 174WB 175WB

170EB 171EB 172EB 173EB 174EB 175EB

MANHOLE #16-30
NEW CASTING

0 40 80

PROJECT NO: 4570-12-72	HWY: USH 10	COUNTY: MANITOWOC	SANITARY SEWER AND WATER MAIN	SHEET 560	E

FILE NAME : N:\C3D\41062900\SHEETSPLAN\WM_SAN_WALDO_45701272-2.DWG
LAYOUT NAME - 4570_12_72_023007_UP

PLOT DATE : 9/18/2018 7:15 AM PLOT BY : SHALLOW, JON PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 42

LOWER WATER MAIN BELOW INLET
LEAD PER CONSTRUCTION DETAILS

LOWER WATER MAIN BELOW INLET
LEAD PER CONSTRUCTION DETAILS

USH 10/STH 42 (WALDO BLVD)

176WB 177WB 178WB 179WB 180WB 181WB

176EB 177EB 178EB 179EB 180EB 181EB

WISDOT MON.

0 40 80

REMOVE & NEW MANHOLE #17-71A
WITH CHIMNEY SEAL
STA 185+40, 75'LT
RIM 589.57
INV 8" E 575.66 (EX AC LINED)
INV 8" W 575.66 (EX AC)

LOWER WATER MAIN BELOW INLET
LEAD PER CONSTRUCTION DETAILS

LOWER WATER MAIN BELOW INLET
LEAD PER CONSTRUCTION DETAILS

USH 10/STH 42 (WALDO BLVD)

182WB 183WB 184WB 185WB 186WB 187WB 188WB

182EB 183EB 184EB 185EB 186EB 187EB 188EB

0 40 80

PROJECT NO: 4570-12-72	HWY: USH 10	COUNTY: MANITOWOC	SANITARY SEWER AND WATER MAIN	SHEET 561 E

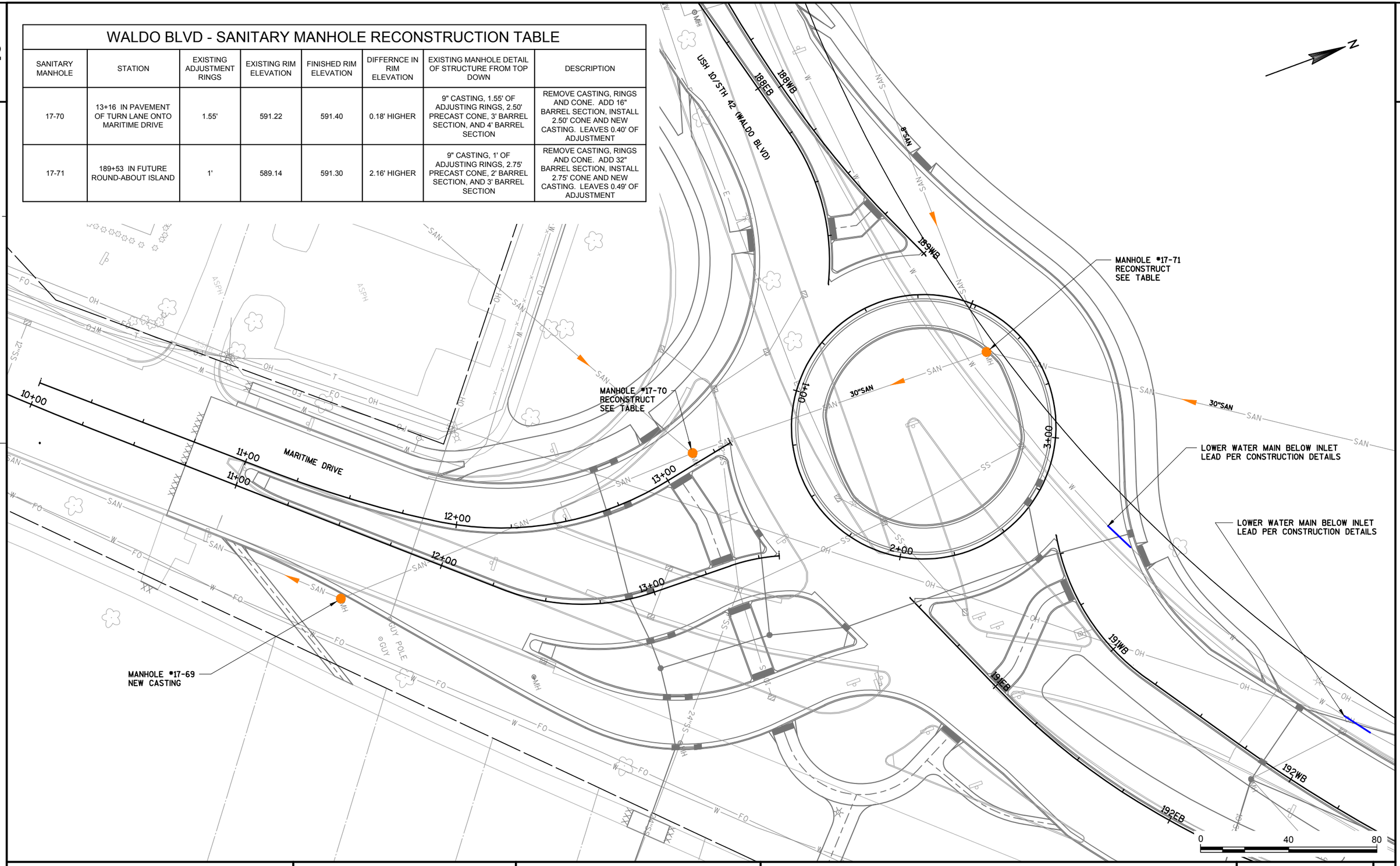
FILE NAME : N:\C3D\41062900\SHEETSPLAN\WM_SAN_WALDO_45701272-2.DWG
LAYOUT NAME - 4570_12_72_023008_UP

PLOT DATE : 9/18/2018 7:16 AM PLOT BY : SHALLOW, JON PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 42

WALDO BLVD - SANITARY MANHOLE RECONSTRUCTION TABLE

SANITARY MANHOLE	STATION	EXISTING ADJUSTMENT RINGS	EXISTING RIM ELEVATION	FINISHED RIM ELEVATION	DIFFERNCE IN RIM ELEVATION	EXISTING MANHOLE DETAIL OF STRUCTURE FROM TOP DOWN	DESCRIPTION
17-70	13+16 IN PAVEMENT OF TURN LANE ONTO MARITIME DRIVE	1.55'	591.22	591.40	0.18' HIGHER	9" CASTING, 1.55' OF ADJUSTING RINGS, 2.50' PRECAST CONE, 3' BARREL SECTION, AND 4' BARREL SECTION	REMOVE CASTING, RINGS AND CONE. ADD 16" BARREL SECTION, INSTALL 2.50' CONE AND NEW CASTING. LEAVES 0.40' OF ADJUSTMENT
17-71	189+53 IN FUTURE ROUND-ABOUT ISLAND	1'	589.14	591.30	2.16' HIGHER	9" CASTING, 1' OF ADJUSTING RINGS, 2.75' PRECAST CONE, 2' BARREL SECTION, AND 3' BARREL SECTION	REMOVE CASTING, RINGS AND CONE. ADD 32" BARREL SECTION, INSTALL 2.75' CONE AND NEW CASTING. LEAVES 0.49' OF ADJUSTMENT



PROJECT NO: 4570-12-72	HWY: USH 10	COUNTY: MANITOWOC	SANITARY SEWER AND WATER MAIN	SHEET 562	E

Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08A08-02	CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER
08A09-02	CATCH BASINS 2X3-FT AND 2.5X3-FT
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08B11-02	MANHOLES VARIABLE TEE AND SPECIAL 4-FT DIAMETER
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D05-19A	CURB RAMPS TYPES 1 AND 1-A
08D05-19B	CURB RAMPS TYPES 2 AND 3
08D05-19C	CURB RAMPS TYPES 4A AND 4A1
08D05-19D	CURB RAMPS TYPE 4B AND 4B1
08D05-19E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-19F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-19G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-10	CONDUIT
09B04-11	PULL BOX
09C02-07	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C06-07	CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL
09C11-10	CONCRETE BASE TYPE 10
09C12-09A	CONCRETE BASE TYPE 13
09C12-09B	CONCRETE BASE TYPE 13
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D02-03	SIGNAL CONTROL CABINET
09E01-14A	POLE MOUNTINGS FOR TRAFFIC SIGNALS TYPE 2
09E01-14B	POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 3 (HEAVY DUTY)
09E01-14G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E05-06	TRAFFIC SIGNAL STANDARD ORNAMENTAL BRACKET MOUNTINGS TYPICAL FOR 13 FT. OR 15 FT.
09E08-08A	TYPE 9 POLE 15'-30' MONOTUBE ARM
09E08-08B	TYPE 10 POLE 15'-30' MONOTUBE ARM
09E08-08C	TYPE 12 POLE 35'-55' MONOTUBE ARM
09E08-08D	TYPE 13 POLE 35'-55' MONOTBE ARM
09E08-08E	GENERAL NOTES AND HARDWARE DETAILS FOR TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS
09F09-04	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT)
11B01-05	CONCRETE CORRUGATED MEDIAN
11B02-02	CONCRETE MEDIAN NOSE
12A03-10	NAME PLATE (STRUCTURES)
12A04-03	STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES & OVERHEAD SIGN SUPPORTS & TRAFFIC SIGNALS
13B02-08A	CONCRETE PAVEMENT APPROACH SLAB
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C04-17	URBAN NON-DOWELED CONCRETE PAVEMENT
13C14-07A	BASE PATCHING CONCRETE
13C14-07B	BASE PATCHING CONCRETE
13C14-07C	BASE PATCHING CONCRETE
13C15-06A	CONCRETE BASE
13C15-06B	CONCRETE BASE
13C18-06A	CONCRETE PAVEMENT JOINTING
13C18-06B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-06C	CONCRETE PAVEMENT JOINT TYPES
13C18-06D	CONCRETE PAVEMENT JOINT TYPES AT UTILITY FIXTURES
13C18-06E	CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS
13C18-06F	CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS
14A02-01	TREE PLANTING DETAIL
14B42-06A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

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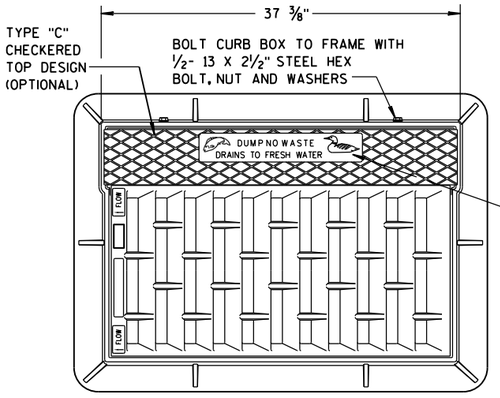
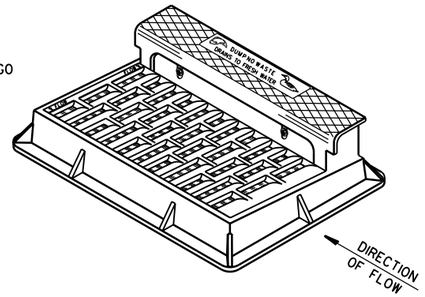
Standard Detail Drawing List

14B42-06D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B47-02A	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02B	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02C	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
15B03-15A	FENCE CHAIN LINK
15B03-15B	FENCE CHAIN LINK
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C07-14A	PAVEMENT MARKING SYMBOLS
15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C07-14D	ROUNDABOUT ARROWS
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C08-19B	PAVEMENT MARKING (TURN LANES)
15C08-19C	PAVEMENT MARKING (TURN LANES)
15C11-07A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C20-02	YIELD MARKING
15C24-04	36" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE
15C27-03B	PAVEMENT MARKING (ISLANDS)
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D06-03	TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION
15D11-07	TRAFFIC CONTROL, SINGLE LANE CROSSOVER
15D12-06A	TRAFFIC CONTROL, LANE CLOSURE
15D20-04	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D30-04A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-04B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-04C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

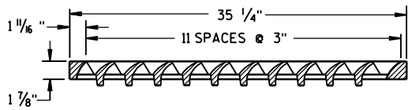
6

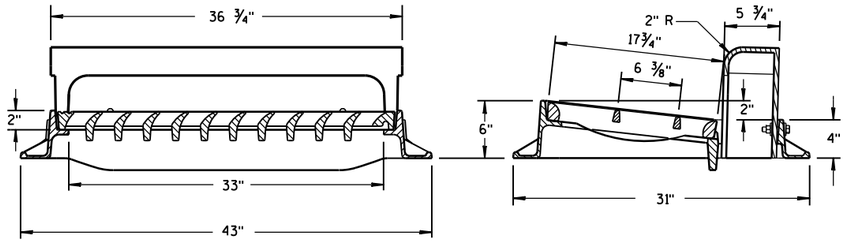


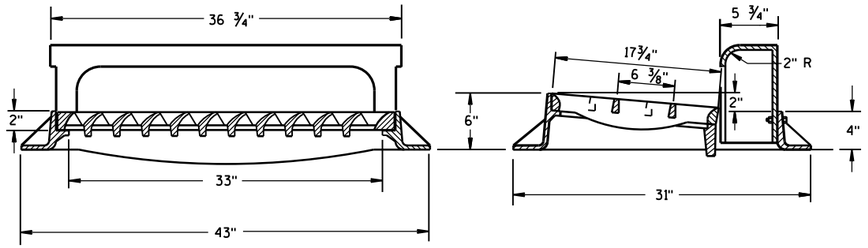
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

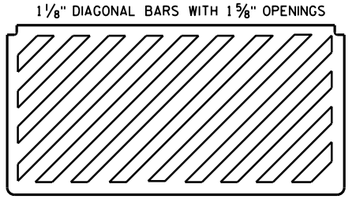






TYPE "H"

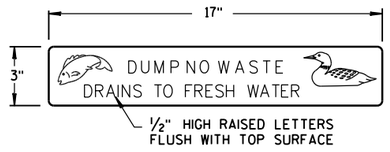
NOTE: EITHER CASTING IS ACCEPTABLE



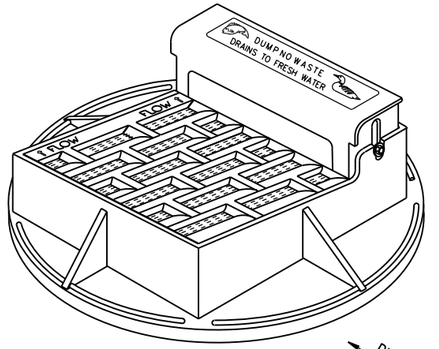
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

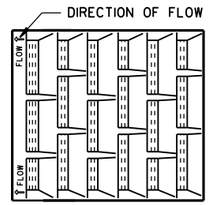
NOTE:
GRATE IS REVERSIBLE.

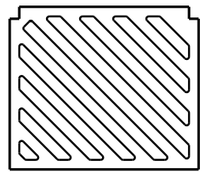
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

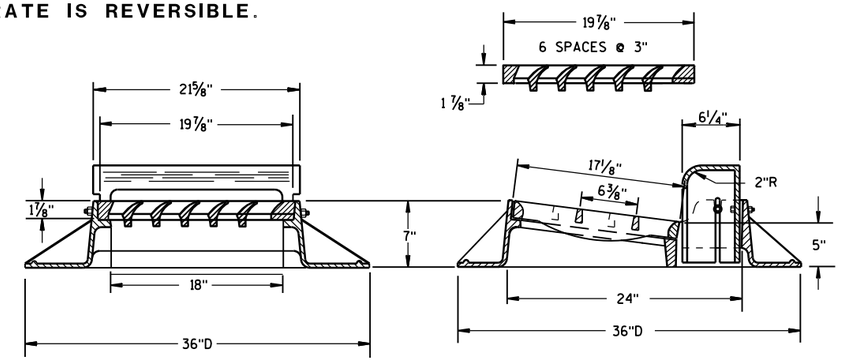




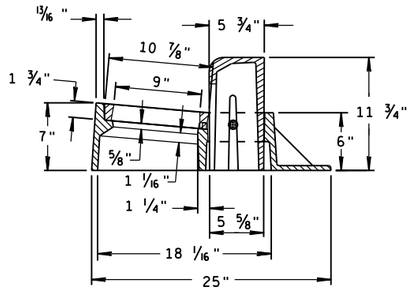
SPECIAL GRATE FOR TYPE "A" COVER

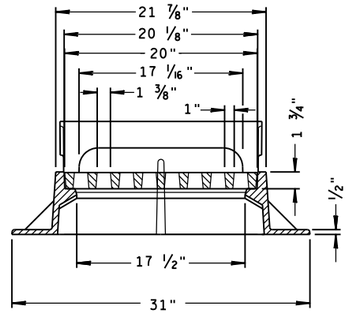
(MEASURES 19 3/4" X 17" X 1 7/8")

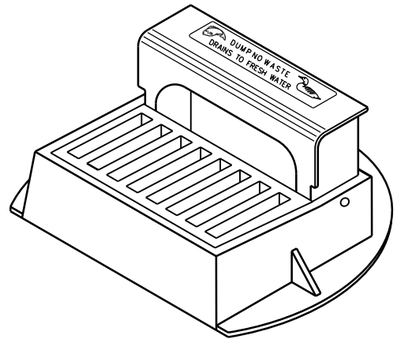
(NOTED AS TYPE A-S ON DRAINAGE TABLE)



TYPE "A"







TYPE "Z"

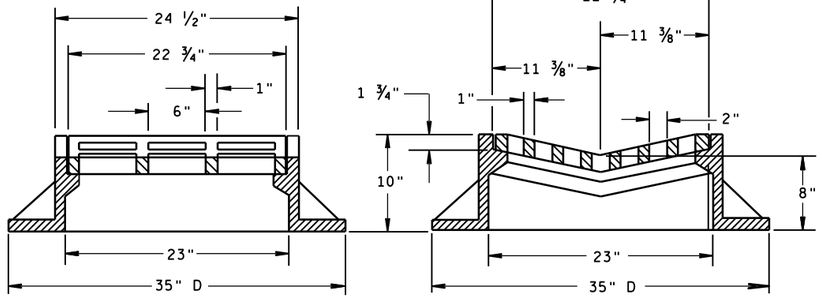
INLET COVERS
TYPE A, H, A-S, H-S & Z

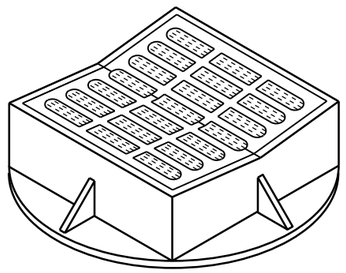
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

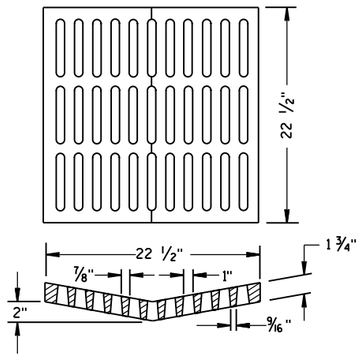
6

S.D.D. 8 A 5-19a



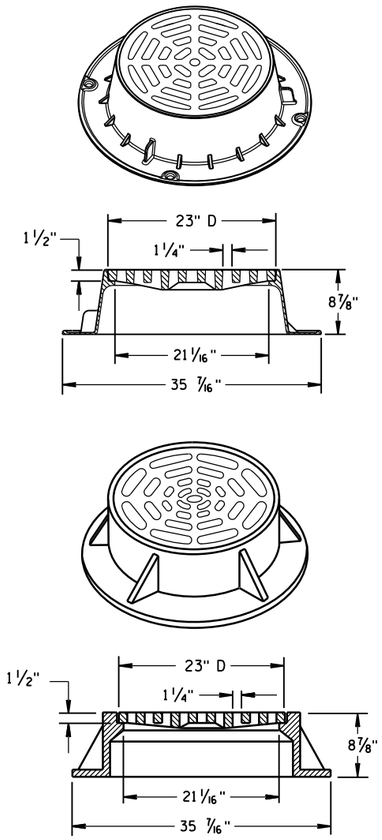


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

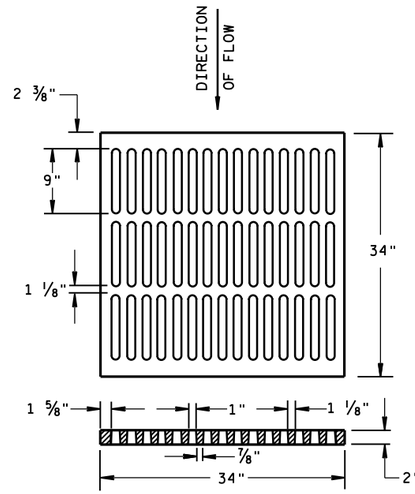
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

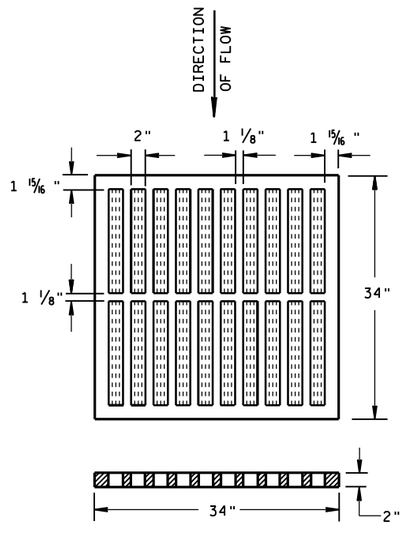
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



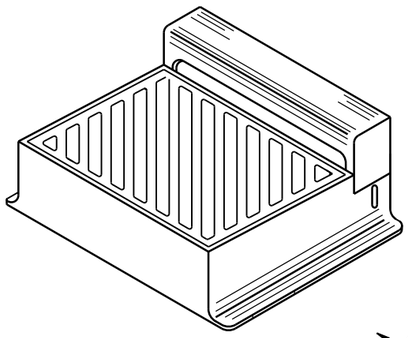
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

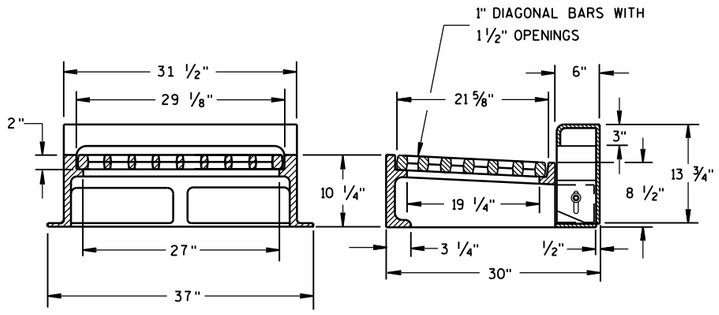


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

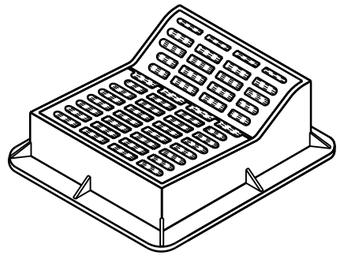
INLET COVERS
TYPE B, B-A, C,
MS, MS-A, & WM

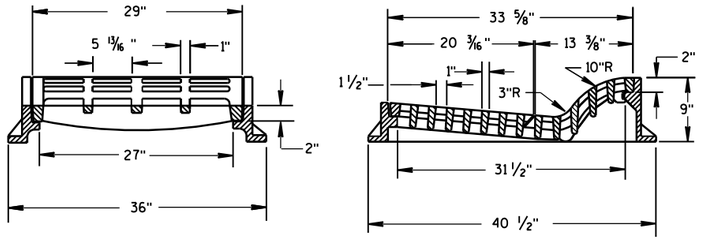
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

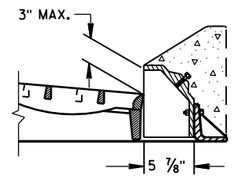
S.D.D. 8 A 5-19b





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

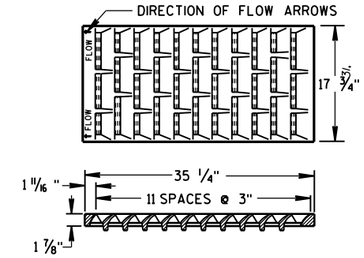
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

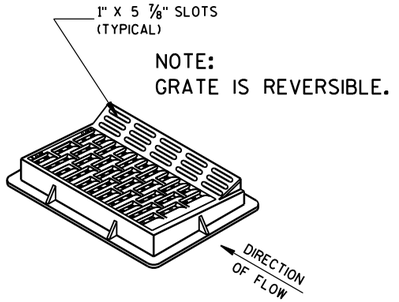
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

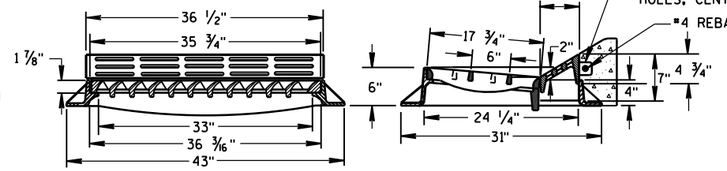
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



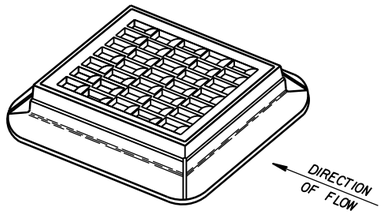


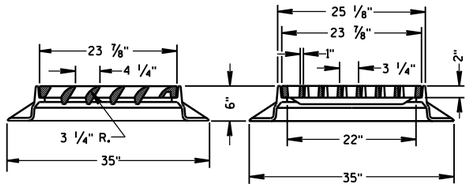


TYPE "HM"

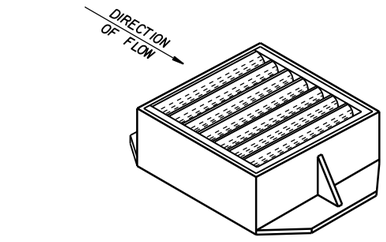
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

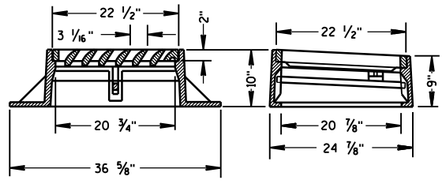
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



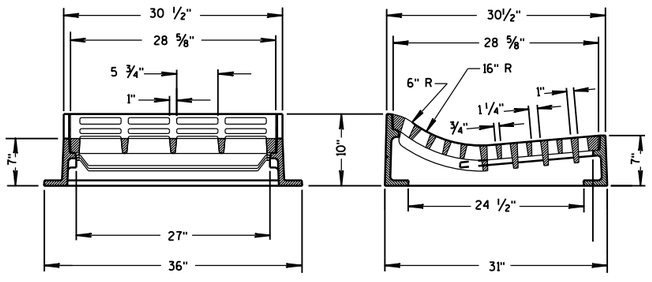


TYPE "S"



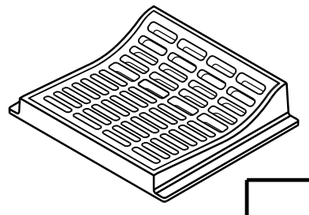


TYPE "V"



TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.



INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

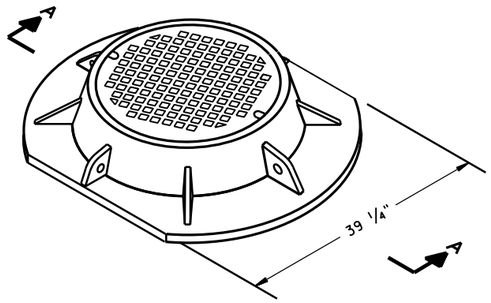
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

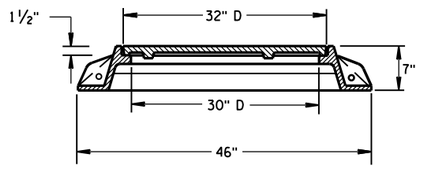
APPROVED
11/27/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

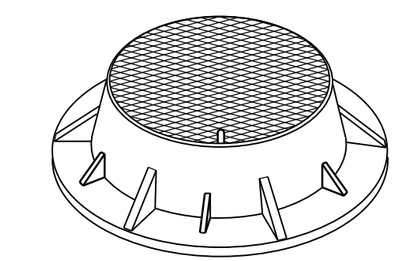
FHWA

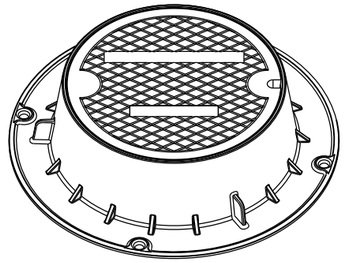
6
S.D.D. 8 A 5-19c

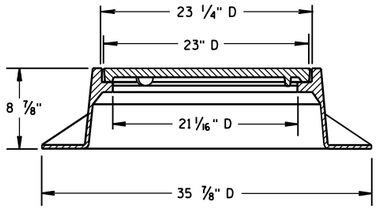


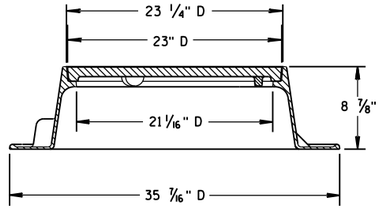


SECTION A-A
TYPE "K"









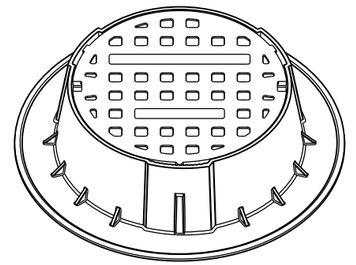
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

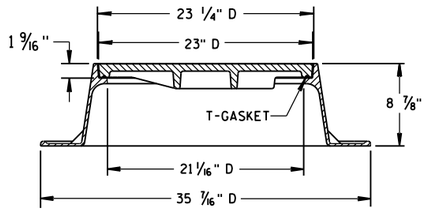
GENERAL NOTES

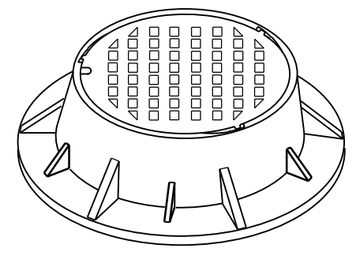
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

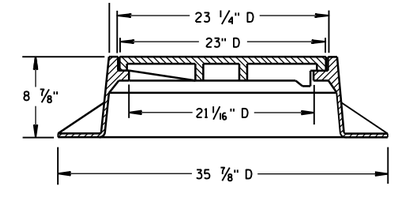
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

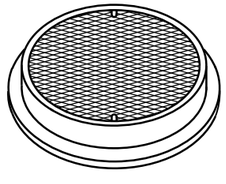


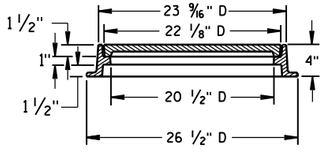






TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE





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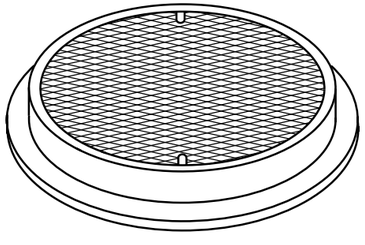

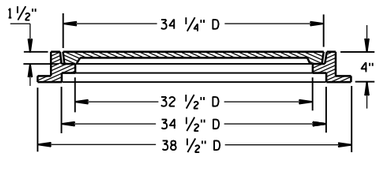

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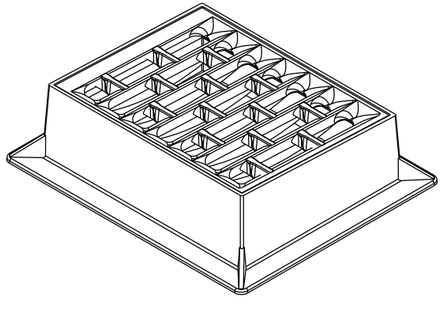
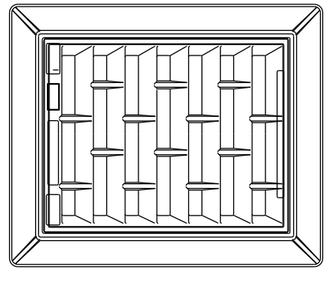
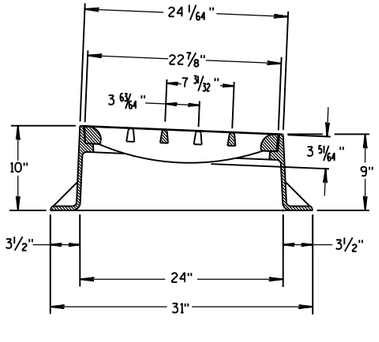
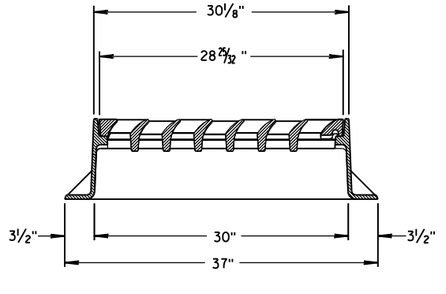








INLET COVER TYPE "BW"

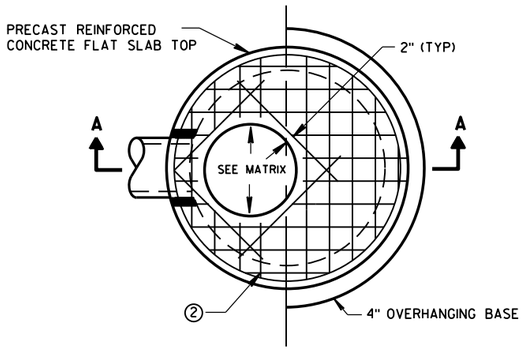
INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

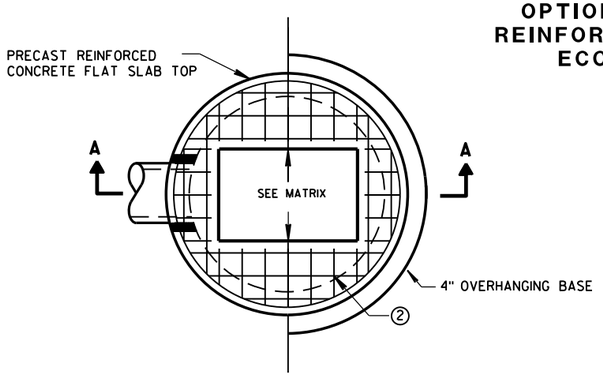
APPROVED
11/27/2013
DATE
FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS D 568 NT
ENGINEER

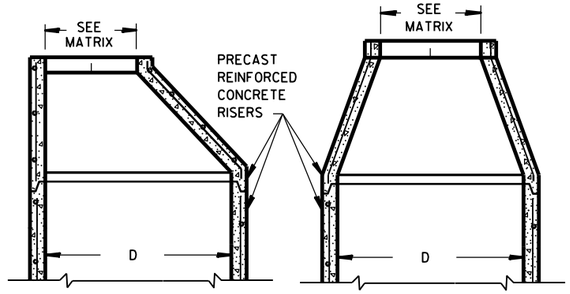
6
S.D.D. 8 A 5-19d



PLAN VIEW CIRCULAR OPENING

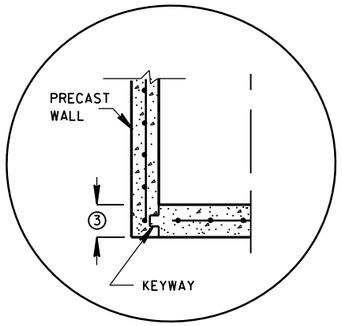


PLAN VIEW RECTANGULAR OPENING

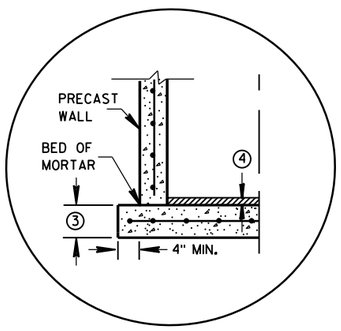


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

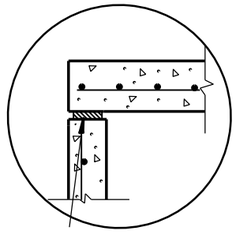


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

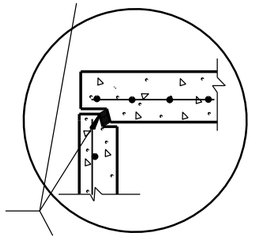


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"

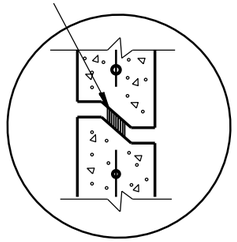


TOP WITH PLAIN END JOINT



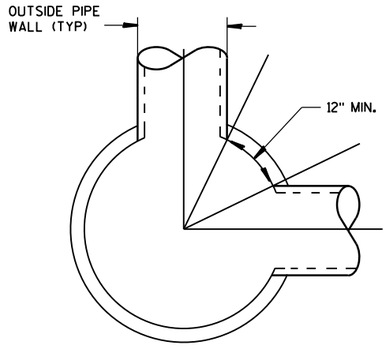
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT

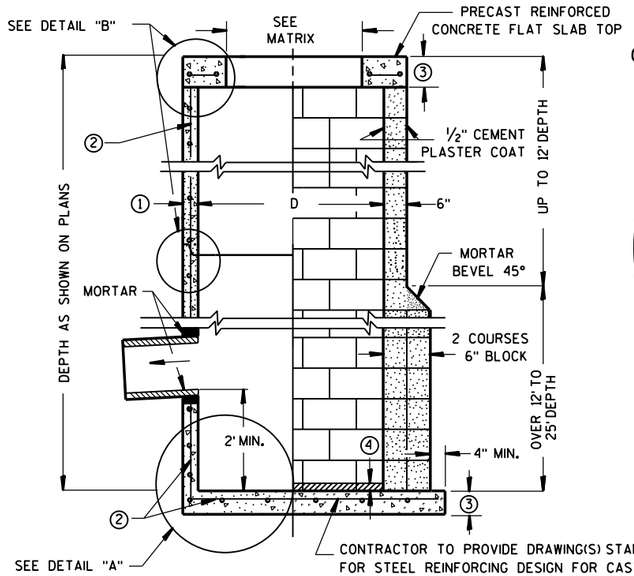


RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"



DETAIL "C"



CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES

SECTION A-A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST CATCH BASIN UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT AND 7 INCHES FOR 6-FT DIAMETER PRECAST CATCH BASINS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

④ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER OPENING MATRIX

CATCH BASIN SIZE	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
	OPENING SIZE (FT)											
3-FT	2X2	X	X					X		X		
	2 DIA.				X							X
4-FT-6-FT	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2 DIA.				X							X
	2X3						X					
	2.5X3					X						

PIPE MATRIX

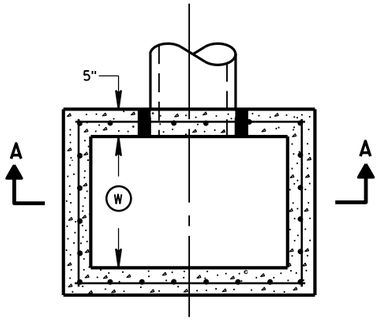
CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	30

CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

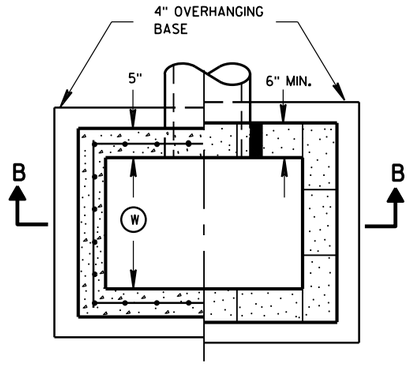
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVI
FHWA

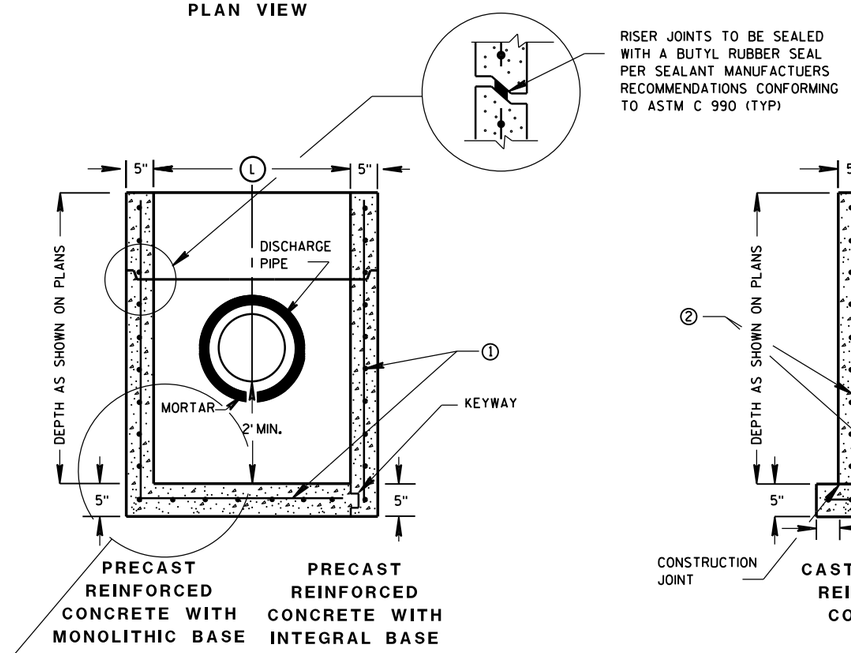
CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER



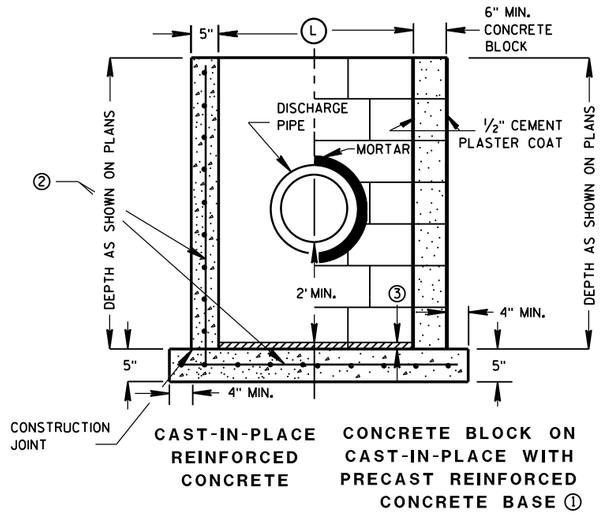
PLAN VIEW



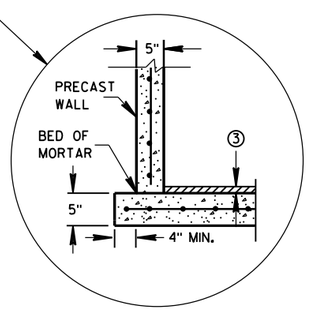
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST CATCH BASIN UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST CATCH BASIN UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

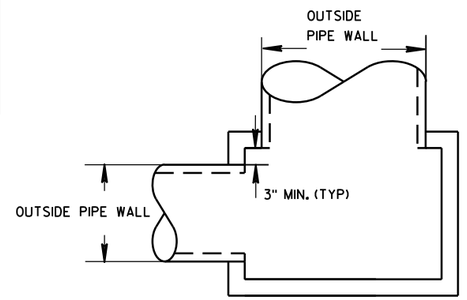
③ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER MATRIX

CATCH BASIN SIZE		INLET COVER TYPE	F	ALL H'S
	WIDTH (W) (FT)	LENGTH (L) (FT)		
2X3-FT	2	3		X
2.5X3-FT	2.5	3	X	

PIPE MATRIX

CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	WIDTH (IN)	LENGTH (IN)
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

CATCH BASINS 2X3-FT AND 2.5X3-FT

CATCH BASINS 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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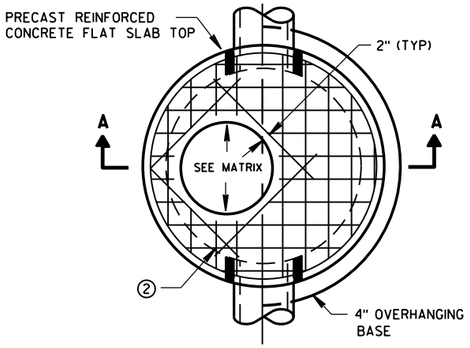
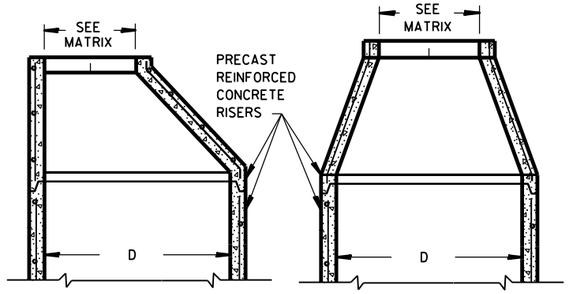
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

6

S.D.D. 8 A 9-2

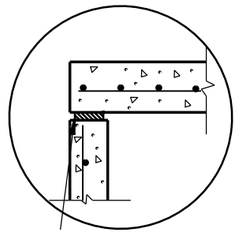


PLAN VIEW CIRCULAR OPENING

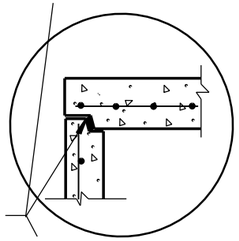


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

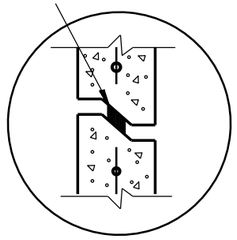


TOP WITH PLAIN END JOINT



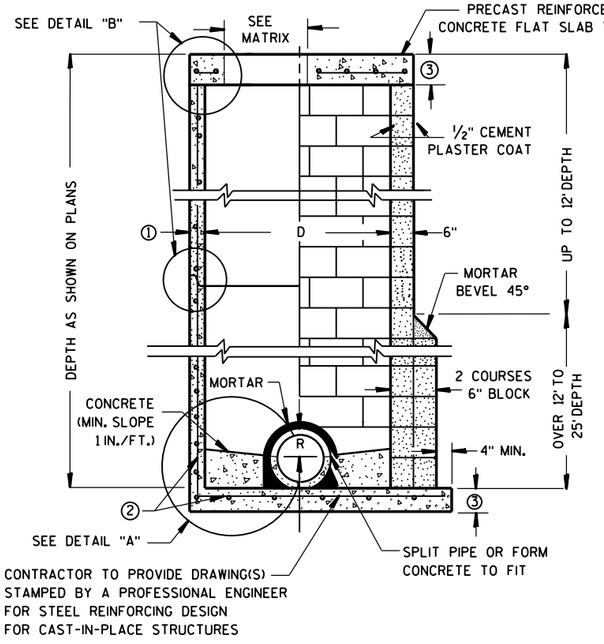
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



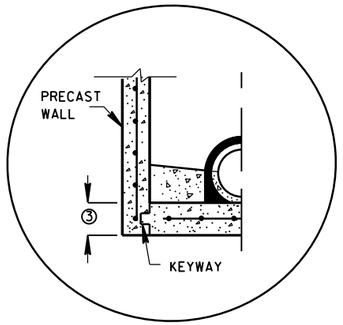
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

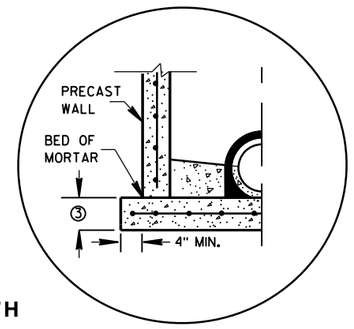


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

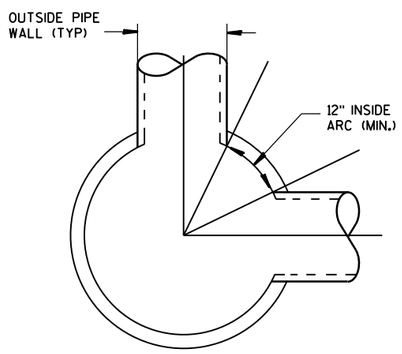


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

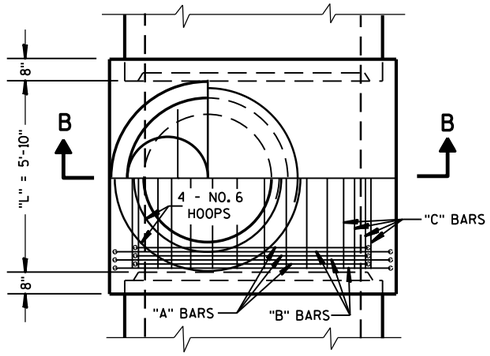
APPROVED

Sept., 2016
DATE

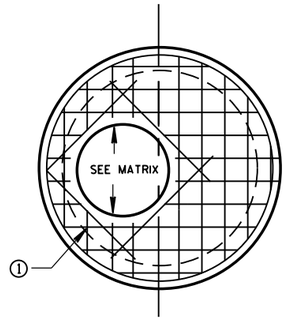
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

FHWA

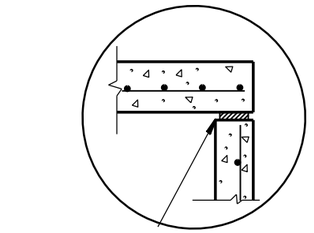
6
S.D.D. 8 B 9-2



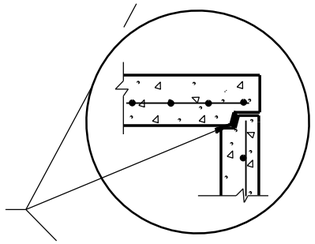
HALF SECTION A-A



PLAN VIEW PRECAST REINFORCED CONCRETE FLAT SLAB TOP WITH ECCENTRIC OPENING

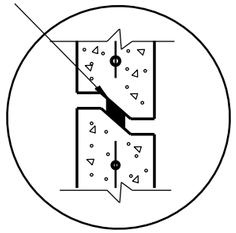


TOP WITH PLAIN END JOINT



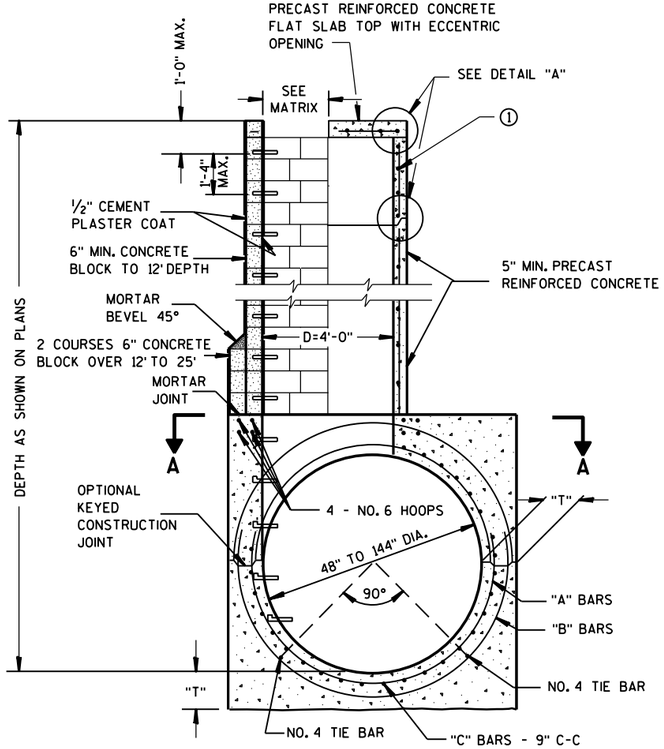
TOP WITH TONGUE AND GROOVE JOINT

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)



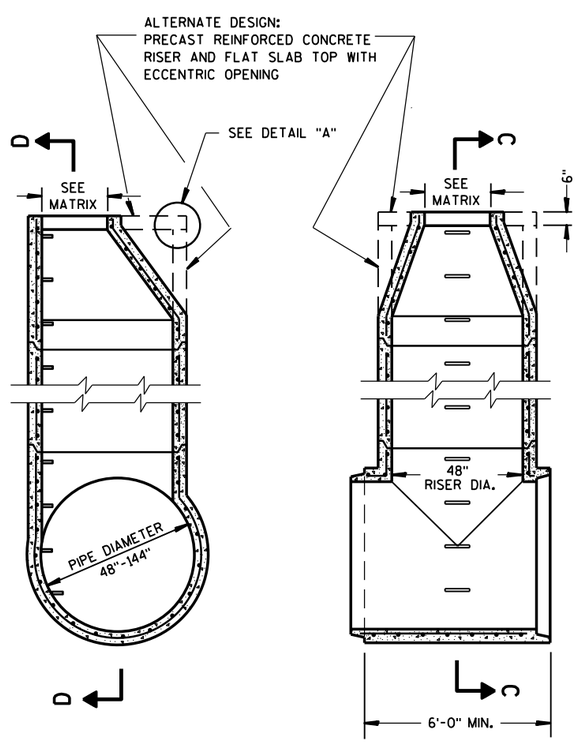
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "A"



SECTION B-B

MANHOLE VARIABLE SPECIAL 4-FT DIAMETER



SECTION C-C SECTION D-D

MANHOLE VARIABLE TEE 4-FT DIAMETER

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 4T-L", "MANHOLES 4S-M", ETC. THE VARIABLE TEE IS DENOTED BY 4T AND THE VARIABLE SPECIAL IS DENOTED BY 4S. THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

STEPS MEETING THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF 1/2 INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE OR CONCRETE BLOCK STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST MANHOLES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

1 FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE WITH AASHTO M 199.

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

NOTES FOR MANHOLE VARIABLE SPECIAL 4-FT DIAMETER

NOTE: ALL "A", "B", AND "C" BAR STEEL REINFORCING IS THE SAME DIAMETER WHICH VARIES WITH DEPTH.
NO. 5 BARS TO 20' DEPTH
NO. 6 BARS OVER 20' TO 30' DEPTH
NO. 7 BARS OVER 30' TO 40' DEPTH

THE "A" AND "B" BARS MAY BE PLACED IN ONE OR TWO SEGMENTS, AND SHALL LAP 24 BAR DIAMETERS.

"C" BARS SHALL HAVE STANDARD HOOKED ENDS.

NOTE: "T" THROUGHOUT LENGTH "L" SHALL BE 13" FOR PIPE DIAMETER 48" TO 84" AND 15" FOR PIPE DIAMETER GREATER THAN 84".

MANHOLE VARIABLE TEE AND SPECIAL 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

6

S.D.D. 8 B 11-2

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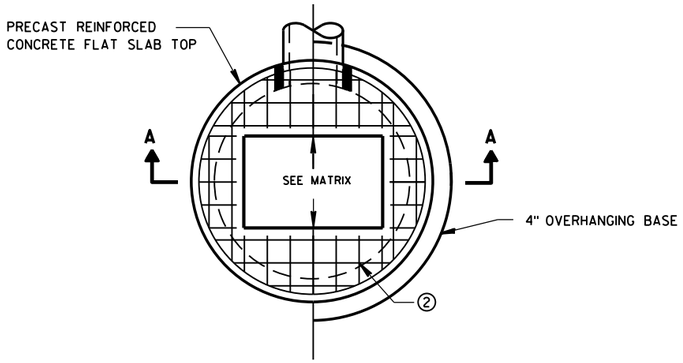
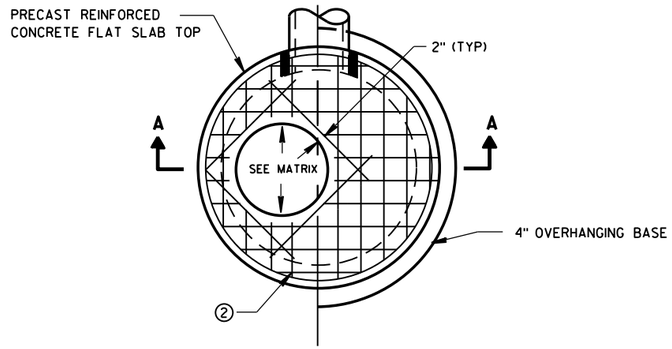
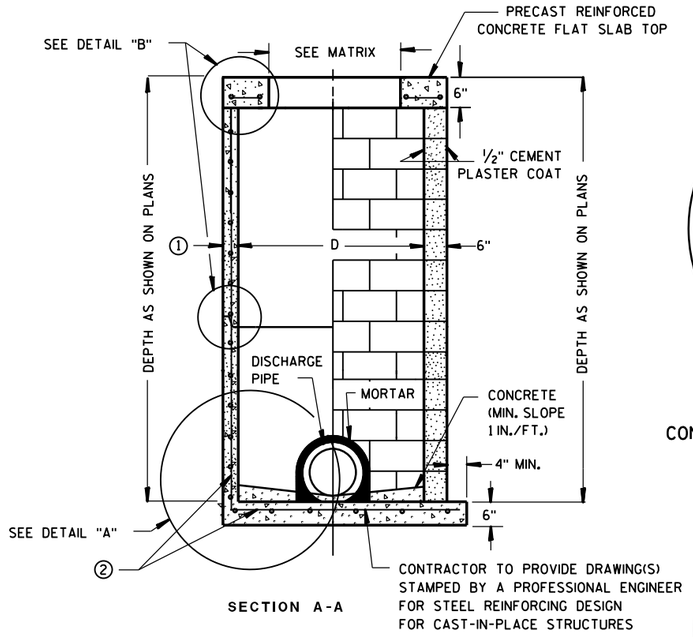
S.D.D. 8 B 11-2



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

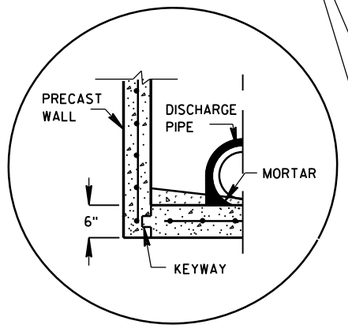


SECTION A-A

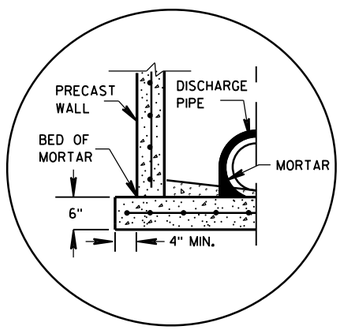
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

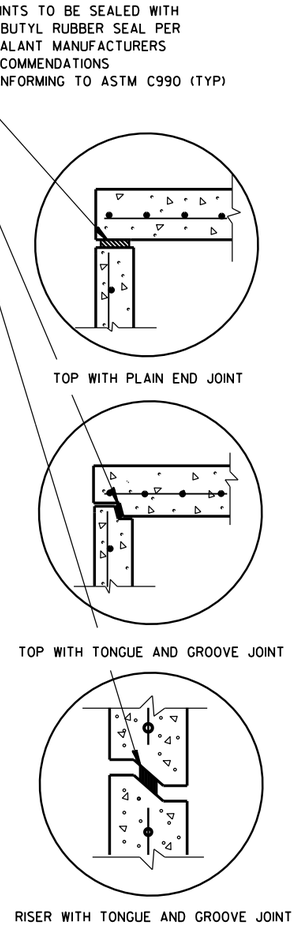


PRECAST REINFORCED
CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED
CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

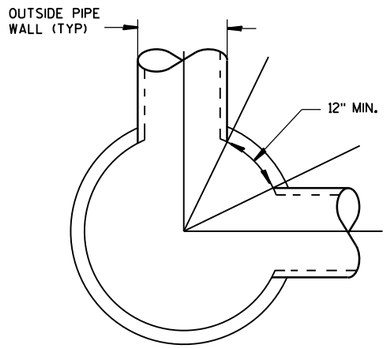
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

INLETS 3-FT
AND 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept.. 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS | UNIT SUPERVI ENT
FHWA

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S.D.D. 8 C 6-2

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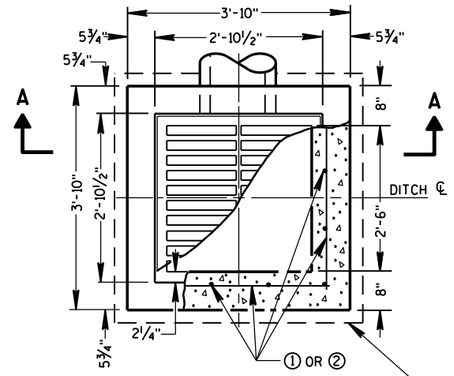
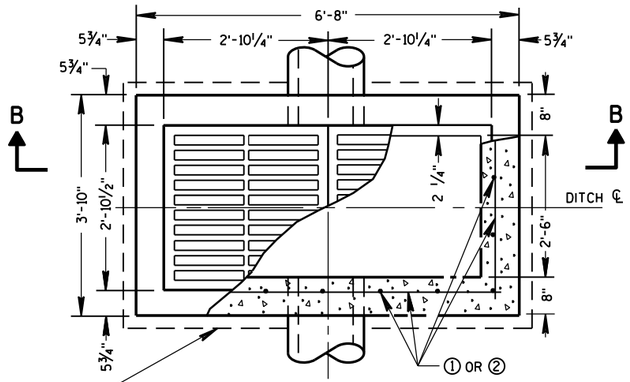
S.D.D. 8 C 6-2

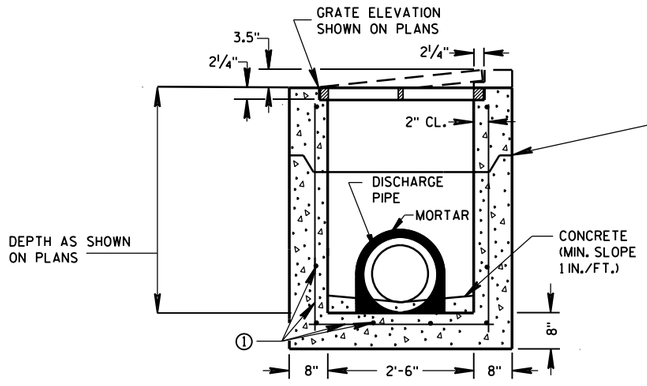


PLAN VIEW

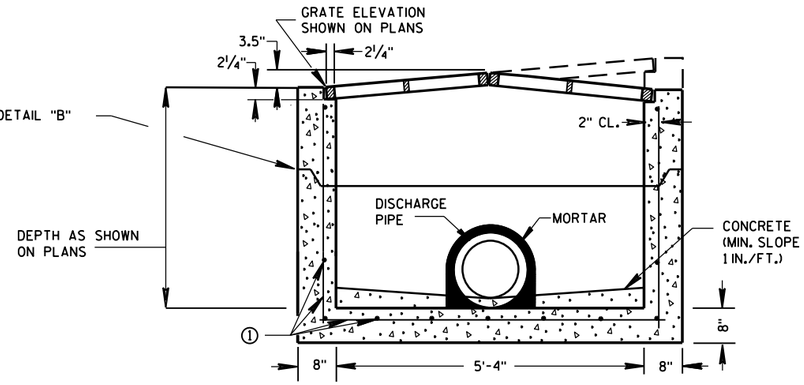


PLAN VIEW

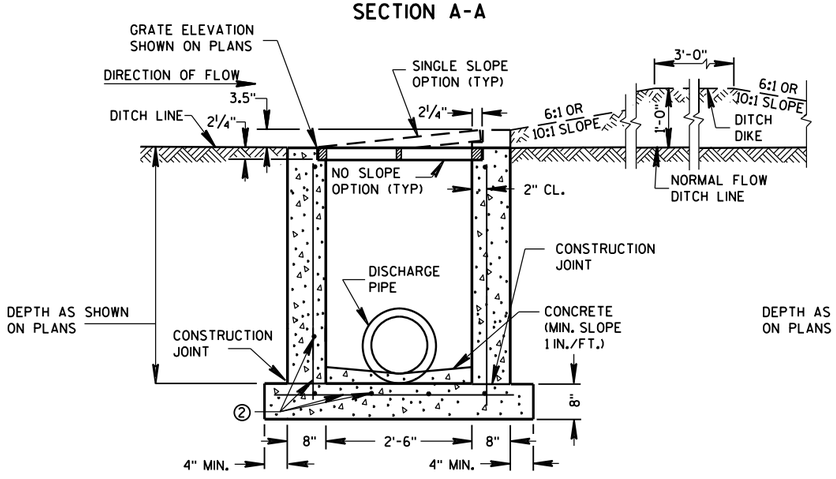
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



PRECAST REINFORCED CONCRETE SECTION A-A

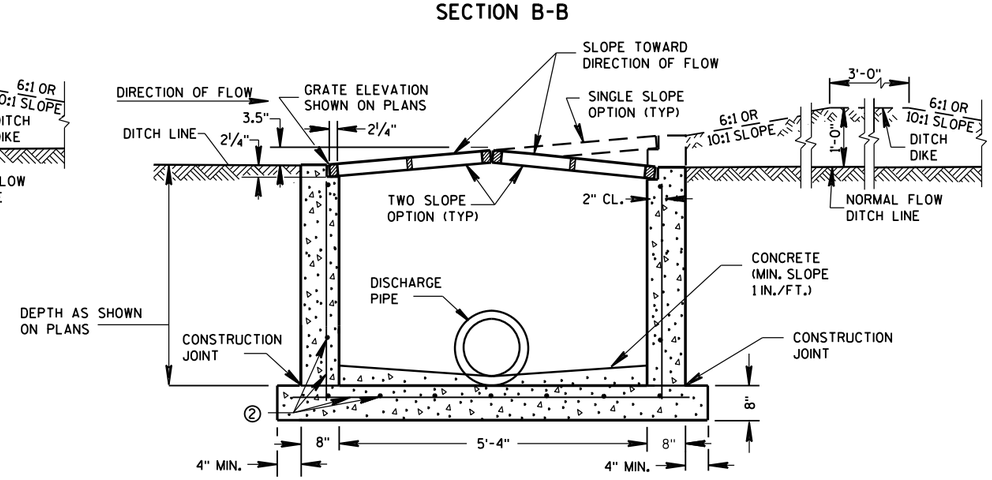


PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A

INLETS MEDIAN 1 GRATE



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 2 GRATE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

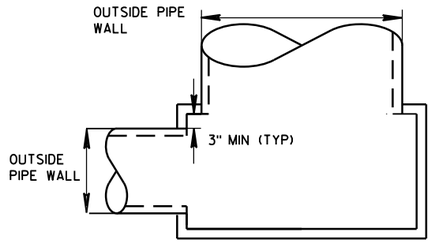
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

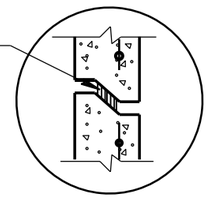
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

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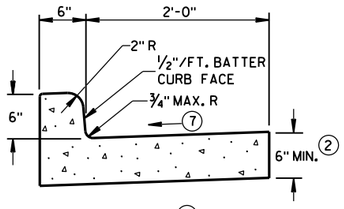
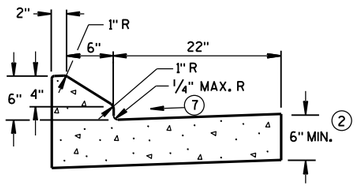
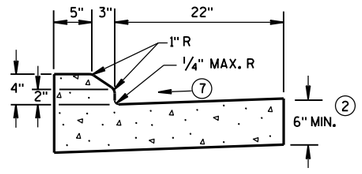
S.D.D. 8 C 8-2



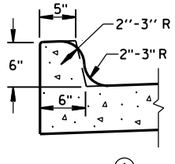
TYPES A (1) & D



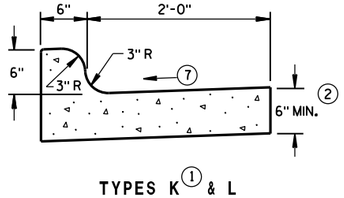
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

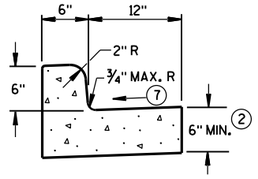


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



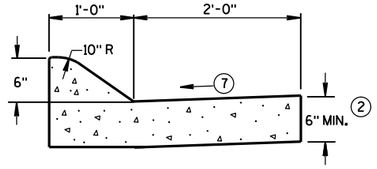
TYPES K (1) & L

CONCRETE CURB & GUTTER 30"

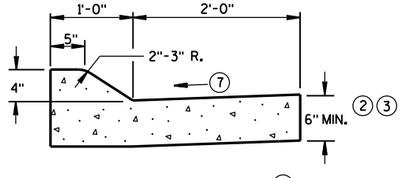


TYPES A (1) & D

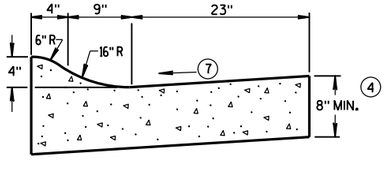
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

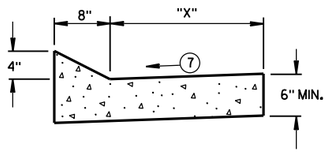


4" SLOPED CURB TYPES A (1) & D



4" SLOPED CURB TYPES R (1) & T (5)

CONCRETE CURB & GUTTER 36"



TYPES TBT & TBTT (1)

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(5) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

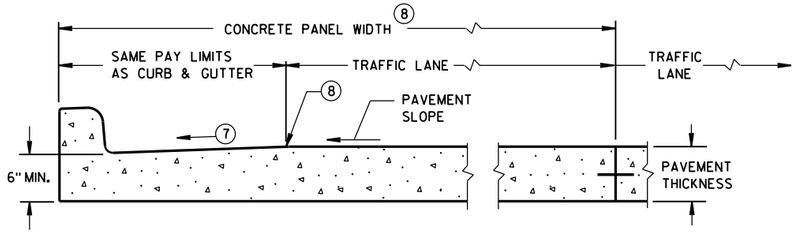
(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

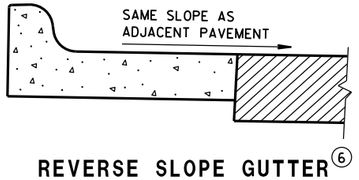
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT *
WITH INTEGRAL CURB & GUTTER

* BIKE LANE IS NOT SHOWN.

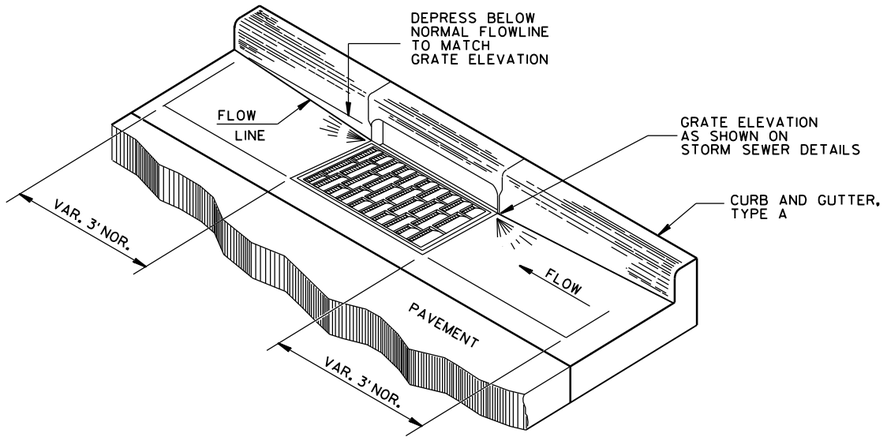


REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

CONCRETE CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 8 D 1-20a



DETAIL OF CURB AND GUTTER AT INLETS

(TYPE H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

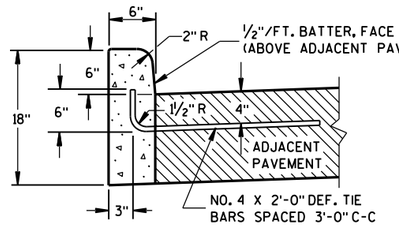
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

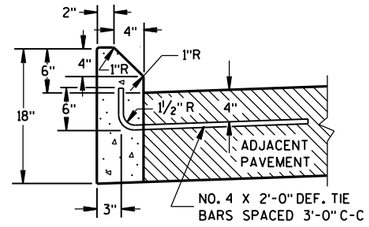
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(9) REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

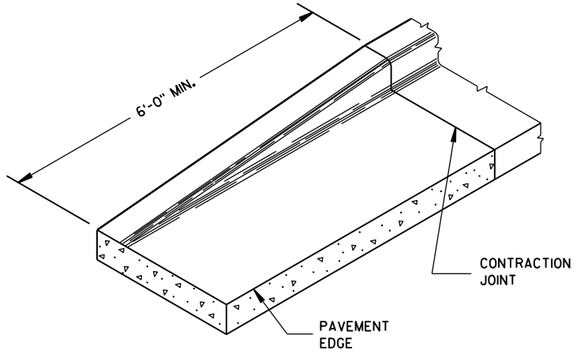


TYPES A (1) & D

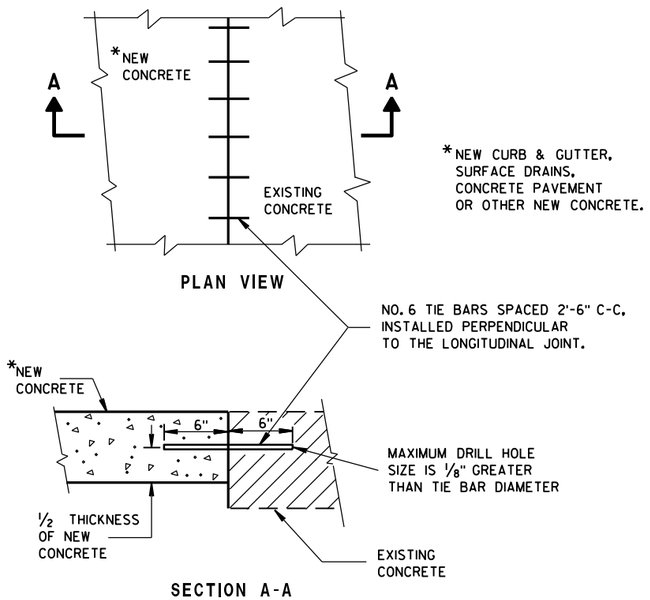


TYPES G (1) & J

CONCRETE CURB



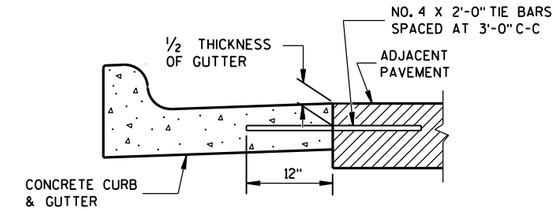
END SECTION CURB & GUTTER



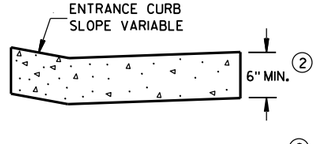
PLAN VIEW

SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
576 — ENT
FHWA

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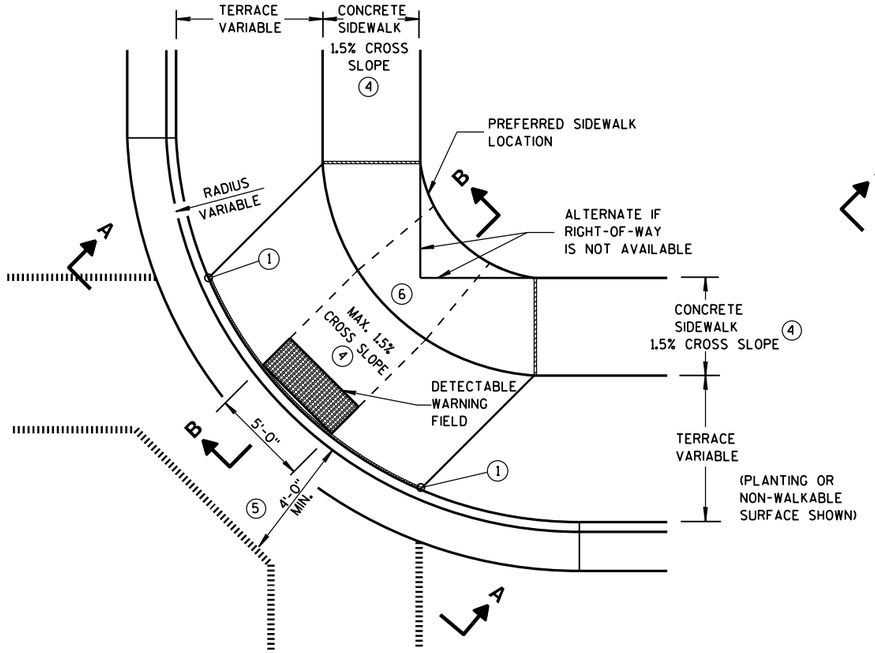
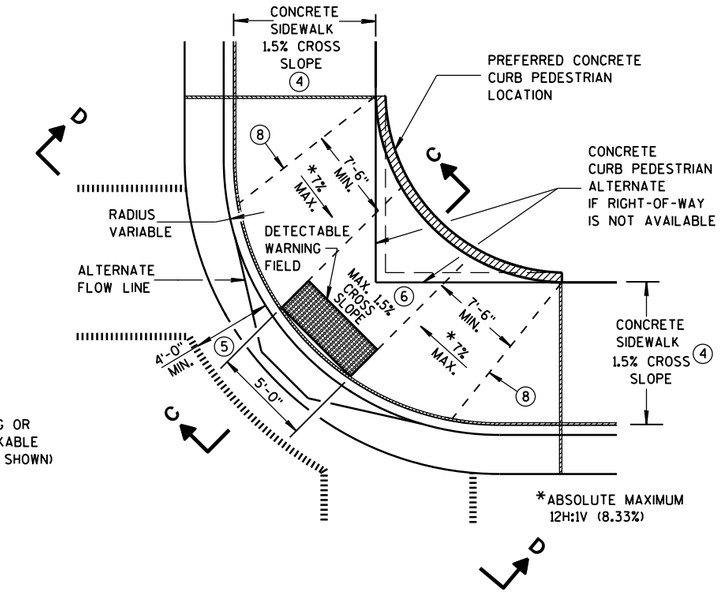
S.D.D. 8 D 1-20b



PLAN VIEW

TYPE 1 RAMP

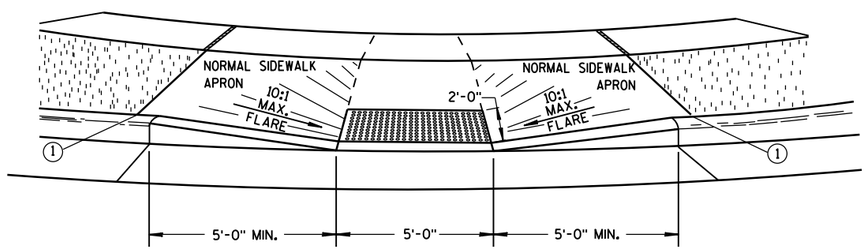
(CENTER OF CORNER RADIUS)



PLAN VIEW

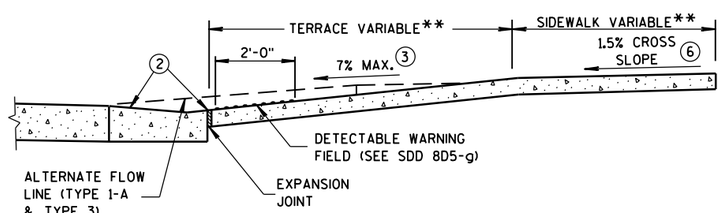
TYPE 1-A RAMP

(NO TERRACE)

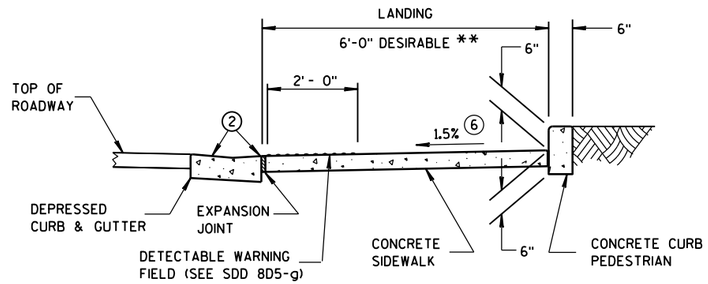


VIEW A-A

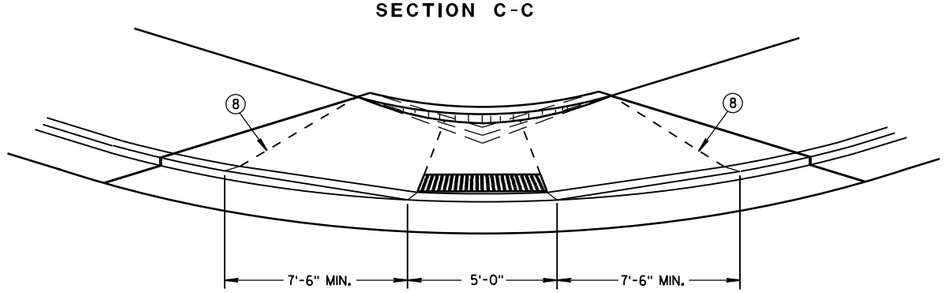
** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B



SECTION C-C



VIEW D-D

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA. (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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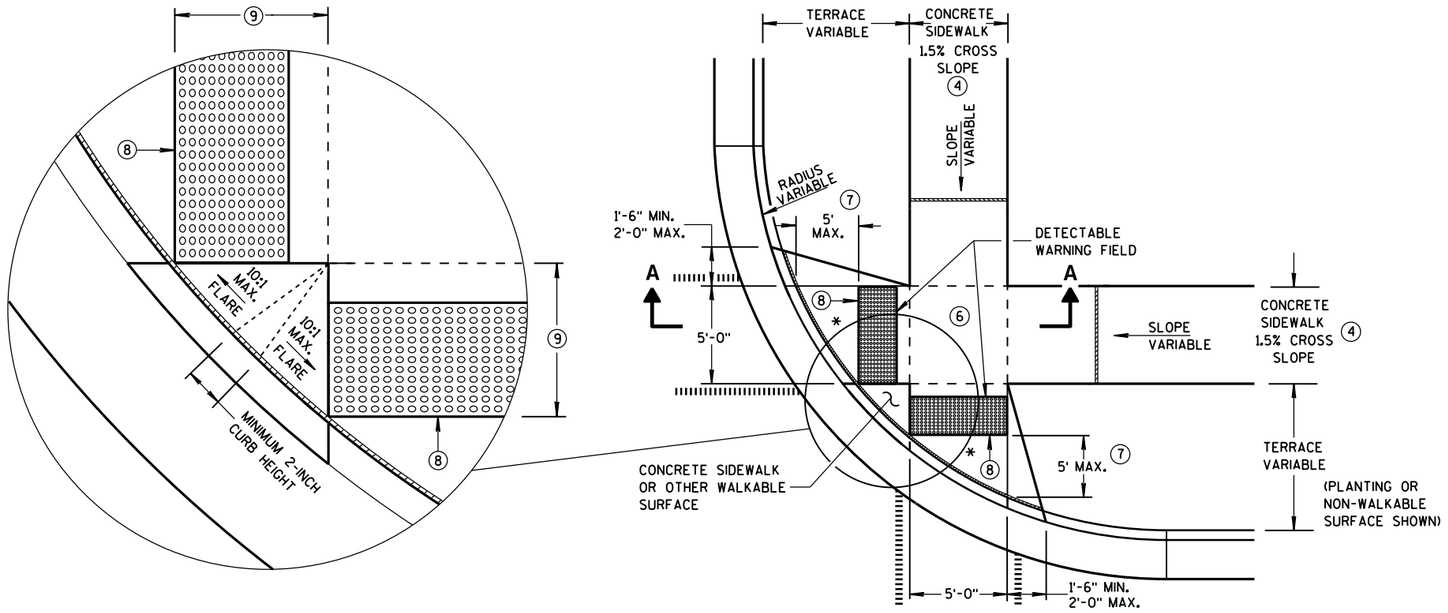
S.D.D. 8 D 5-19a



PLAN VIEW

TYPE 2 RAMP

(ON LINE WITH SIDEWALK)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

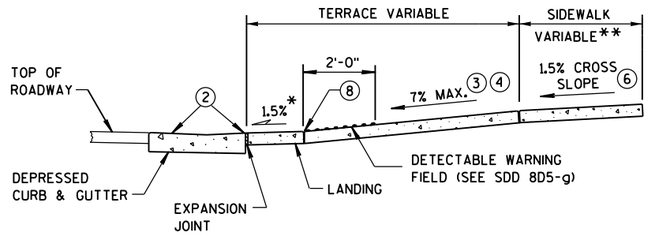
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

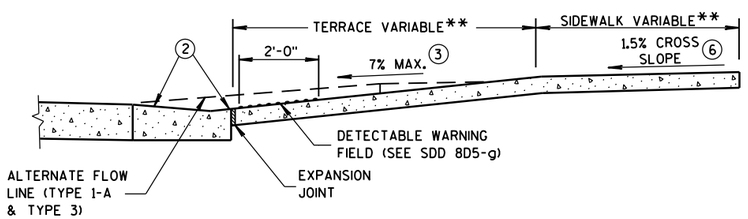
(9) WHEN THIS DISTANCE IS LESS THAN 6'-0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

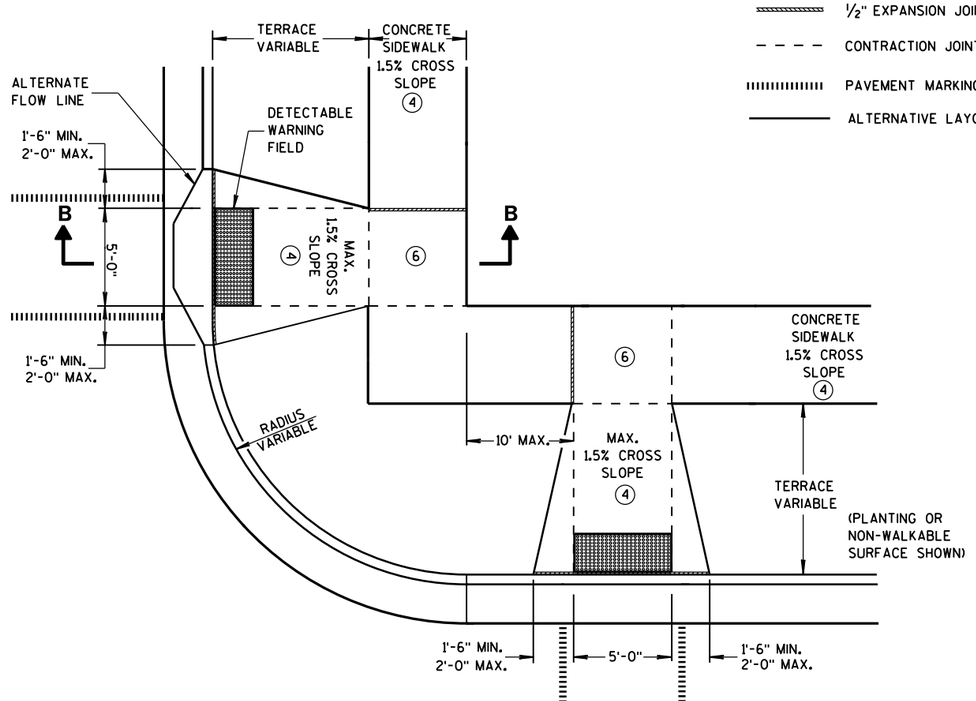


SECTION A-A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B



PLAN VIEW

TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)

LEGEND

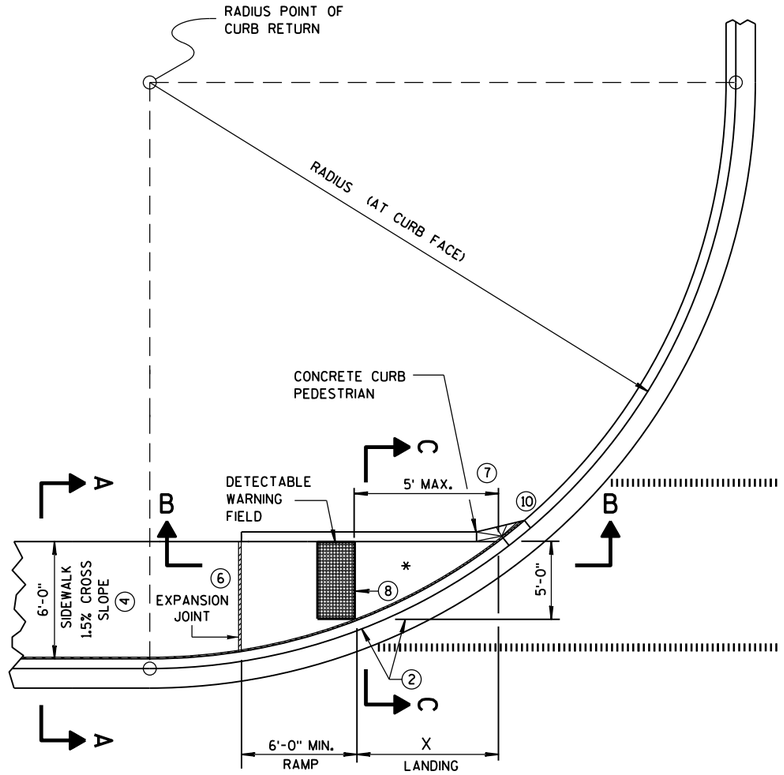
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

CURB RAMPS TYPES 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

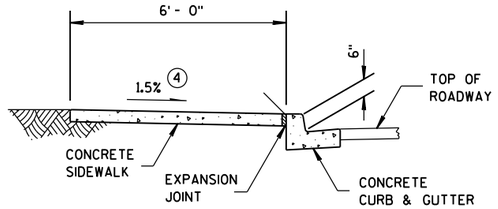
S.D.D. 8 D 5-19b



CURB RAMP TYPE 4A
PLAN VIEW

RADIUS (AT CURB FACE)	X
10 FEET	4'-7"
15 FEET	6'-5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

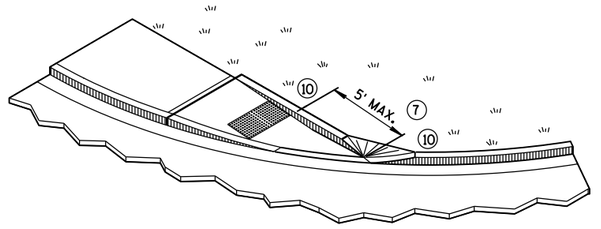
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

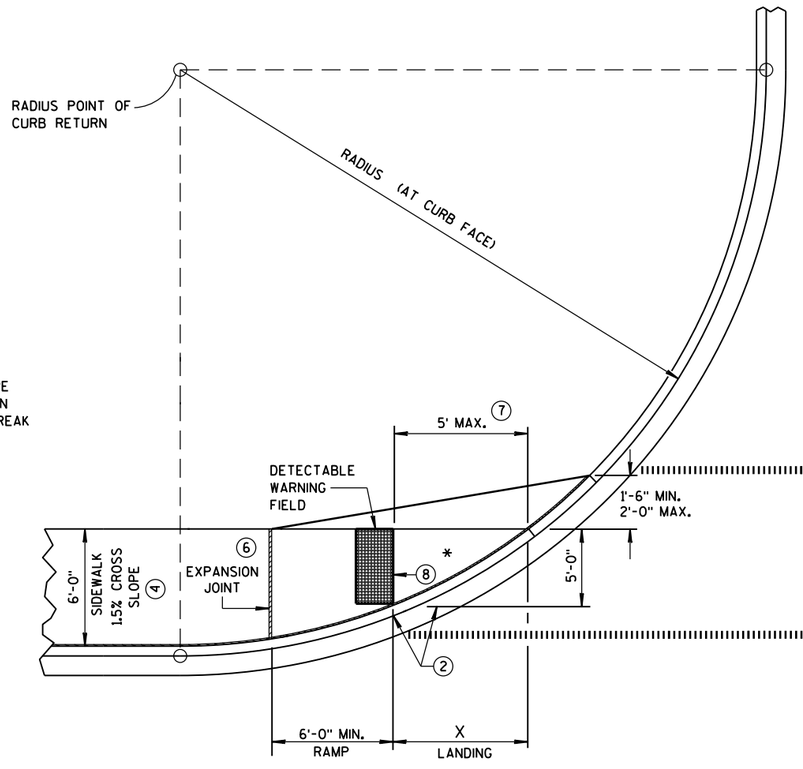
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

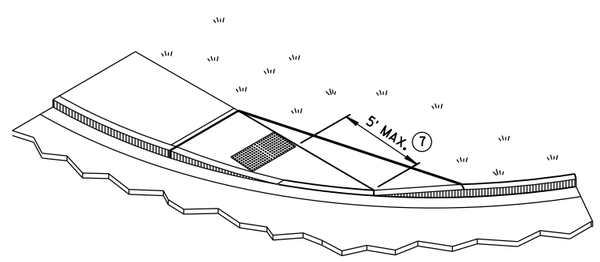
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



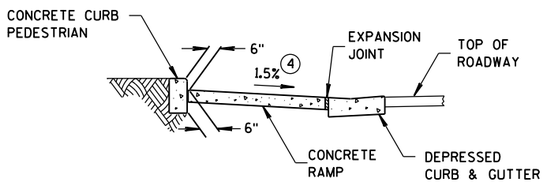
ISOMETRIC VIEW FOR TYPE 4A



CURB RAMP TYPE 4A1
PLAN VIEW

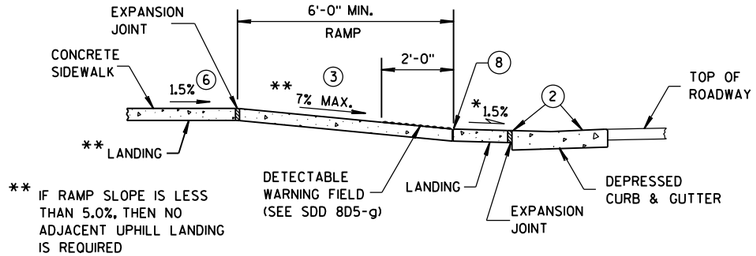


ISOMETRIC VIEW FOR TYPE 4A1



SECTION C-C FOR TYPE 4A

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

SECTION B-B FOR TYPE 4A

LEGEND

½" EXPANSION JOINT-SIDEWALK

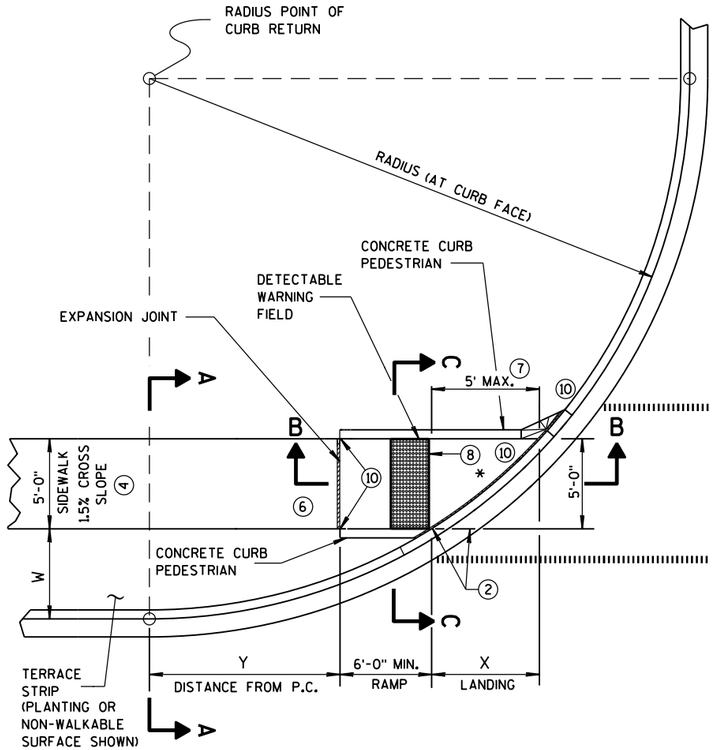
CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)

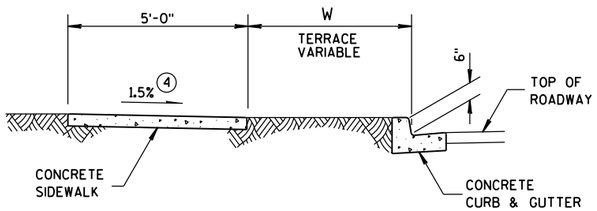
CURB RAMPS TYPES 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

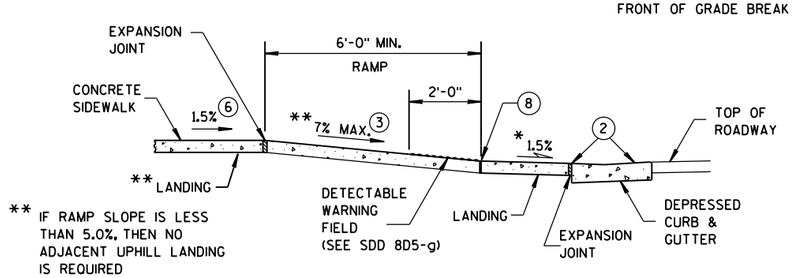
6
S.D.D. 8 D 5-19c



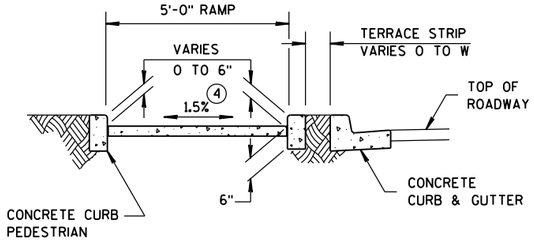
CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



SECTION B-B FOR TYPE 4B



SECTION C-C FOR TYPE 4B

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"		W = 8'-0"		W = 9'-0"		W = 10'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2'-10¼"	0'-5"	2'-1"	1'-4½"	1'-5"	2'-1"	0'-10"	2'-7½"	0'-3¼"	3'-0¼"						
15 FEET	4'-6¾"	2'-1¾"	3'-9"	3'-5¼"	3'-1¼"	4'-6"	2'-6¾"	5'-4½"	2'-1"	6'-1"	1'-8"	6'-8½"	1'-3¼"	7'-2½"	0'-10¾"	7'-7¼"
20 FEET	5'-9¾"	3'-6½"	4'-11½"	5'-1¾"	4'-3¼"	6'-5½"	3'-8¾"	7'-7"	3'-3"	8'-6½"	2'-10"	9'-4½"	2'-5½"	10'-1¼"	2'-1¼"	10'-9"
30 FEET			6'-9¼"	7'-11¼"	6'-0¼"	9'-8"	5'-5"	11'-1¾"	4'-10¾"	12'-5¾"	4'-5½"	13'-7¾"	4'-0¾"	14'-8½"	3'-8½"	15'-8¼"
40 FEET									6'-1¾"	15'-8½"	5'-8"	17'-2"	5'-3"	18'-5¾"	4'-10¾"	19'-8¼"
50 FEET															5'-10¼"	23'-2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

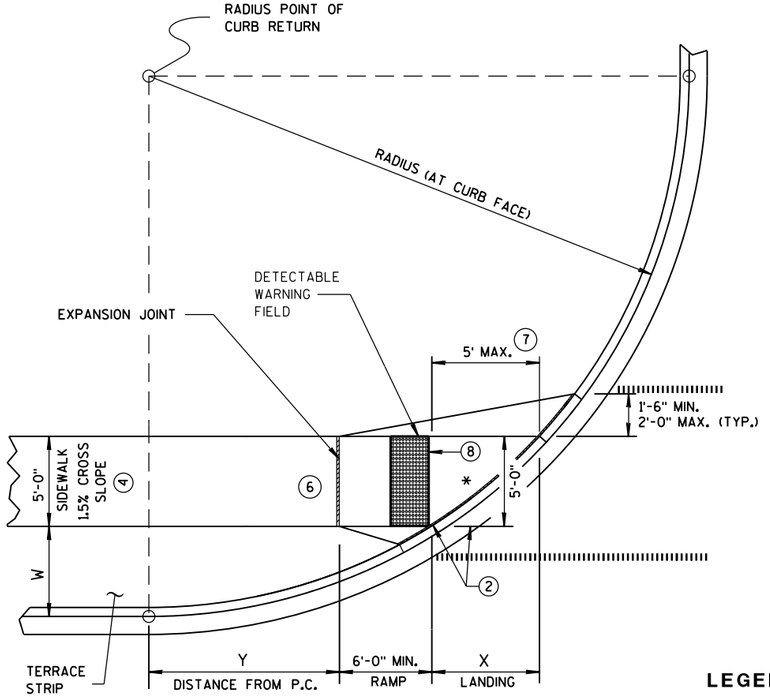
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

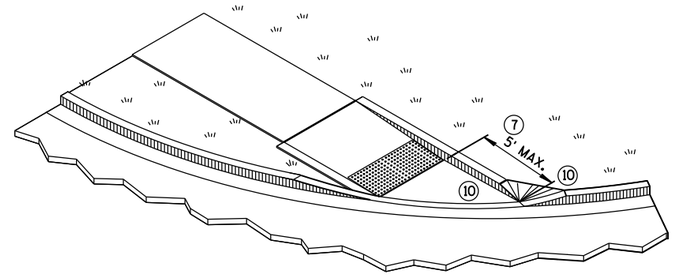
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

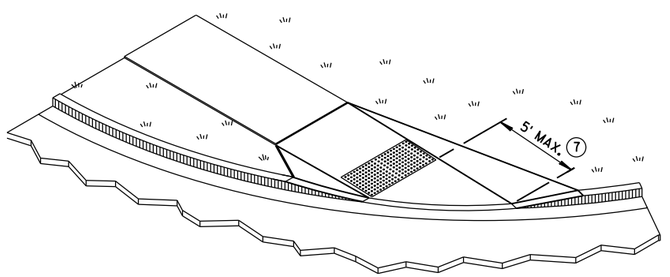
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



CURB RAMP TYPE 4B1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

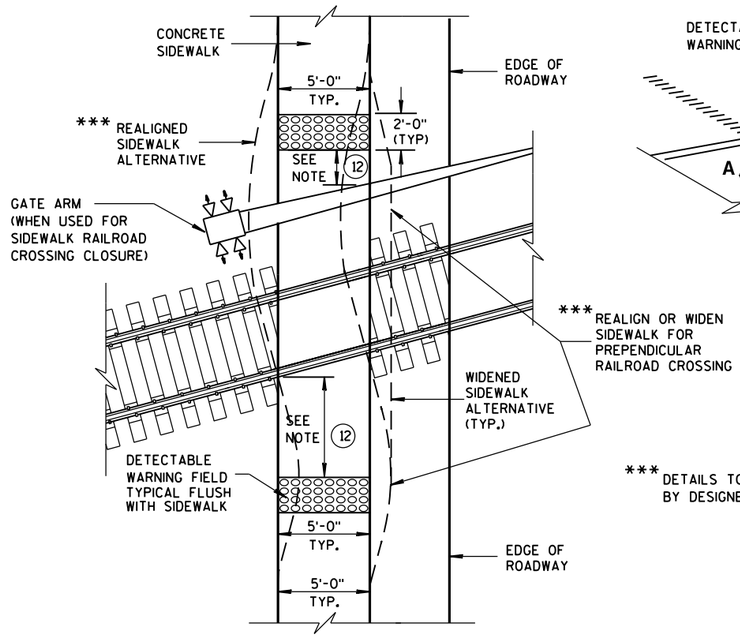
PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

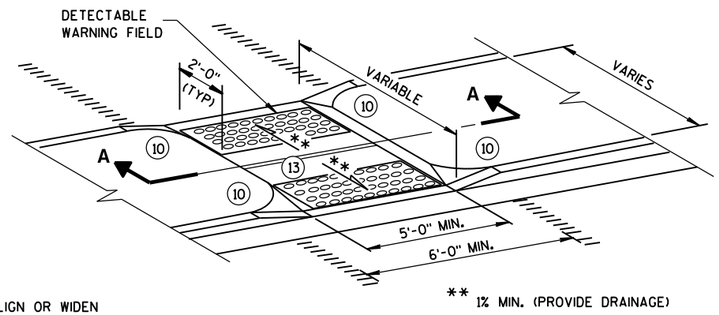
6

S.D.D. 8 D 5-19d



*** DETAILS TO BE DETERMINED BY DESIGNER

TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING



** 1% MIN. (PROVIDE DRAINAGE)

MEDIAN ISLAND
NON-ELEVATED PEDESTRIAN CROSSING
TYPE 5

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

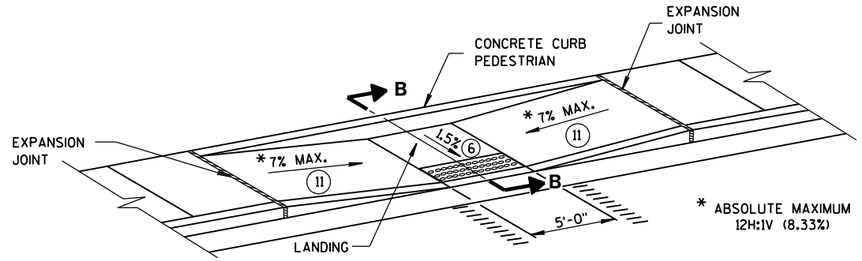
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

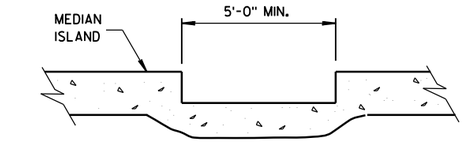
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

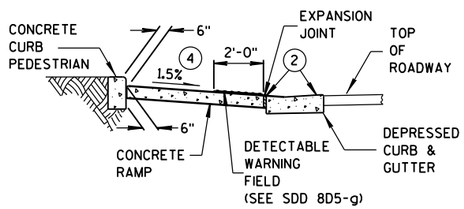
(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STREET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2-FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.



MID-BLOCK CROSSING
TYPE 7A

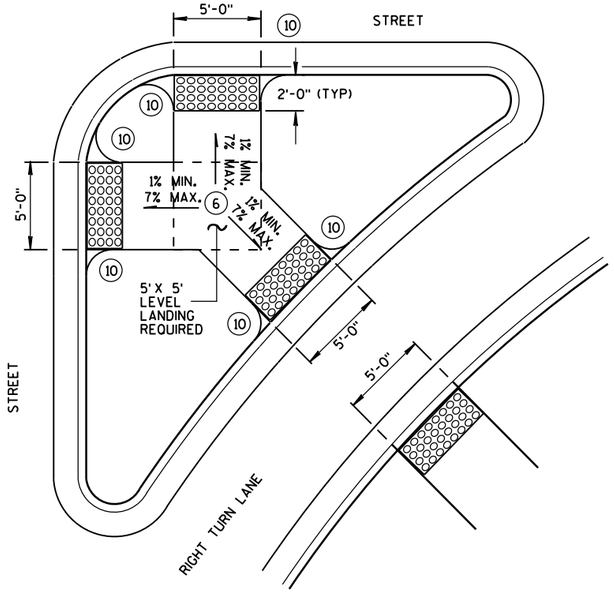


SECTION A-A

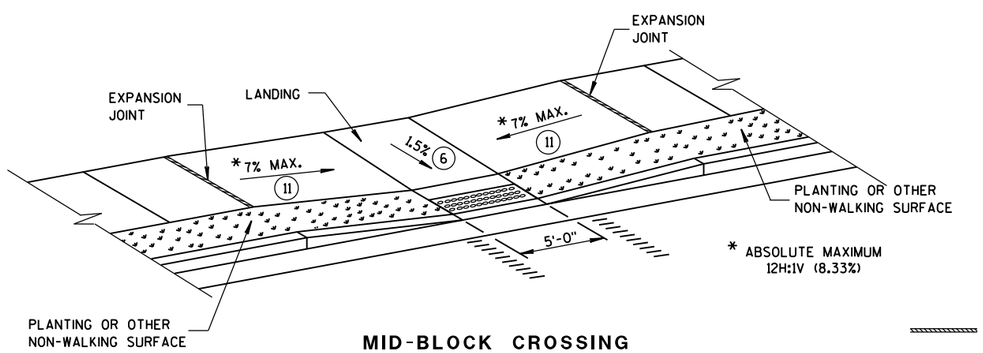


SECTION B-B

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

LEGEND

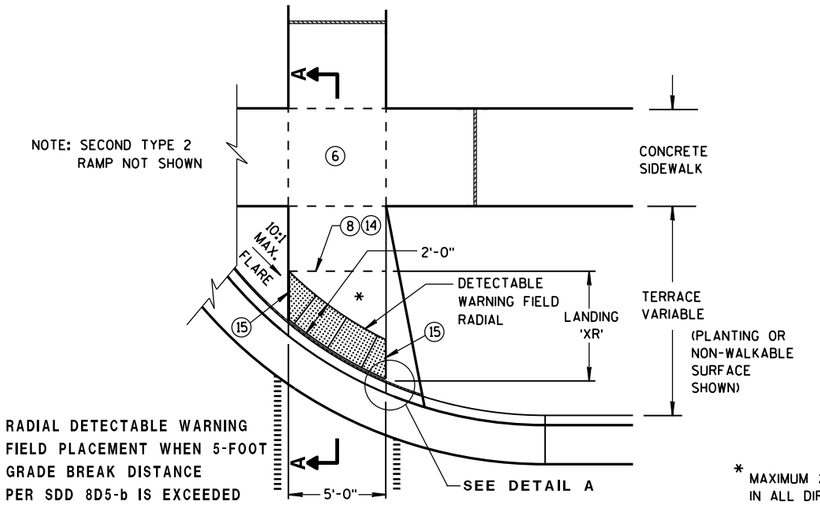
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 8 D 5-19e

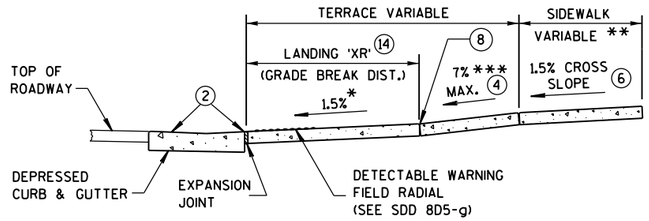


TYPE 2 RAMP
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION A-A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS (DWFs) THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

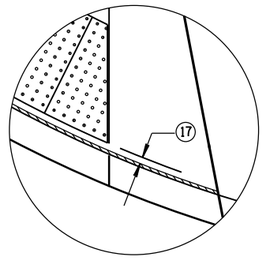
(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION 'XR') REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

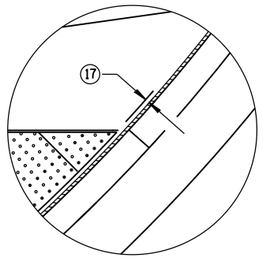
(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1'X 2' RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2'-0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

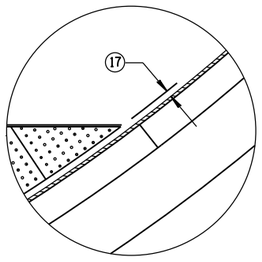
(17) A MAXIMUM 3-INCH CONCRETE BORDER WIDTH IS ALLOWABLE IN FRONT OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.



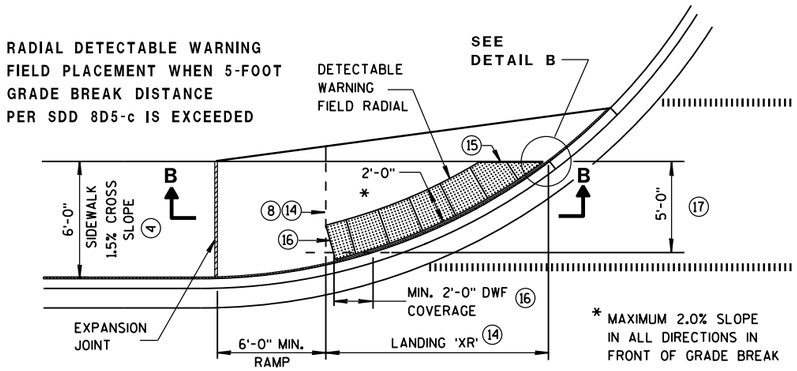
DETAIL A



DETAIL C

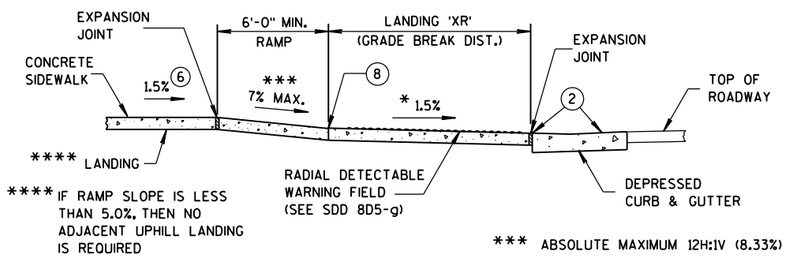


DETAIL B



* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

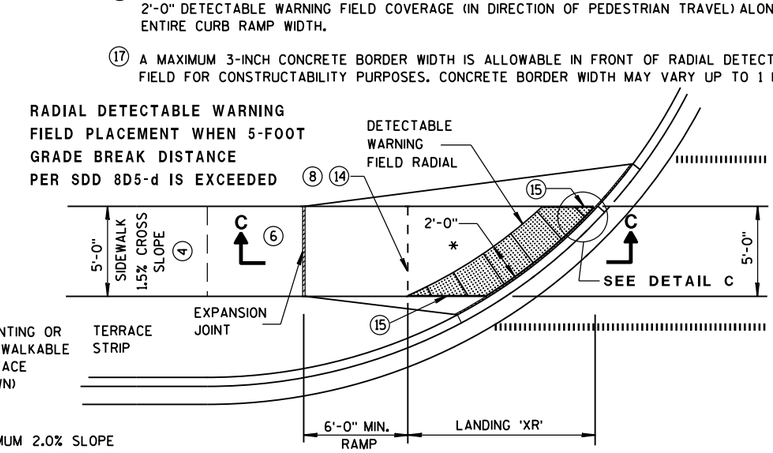
CURB RAMP TYPE 4A1
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

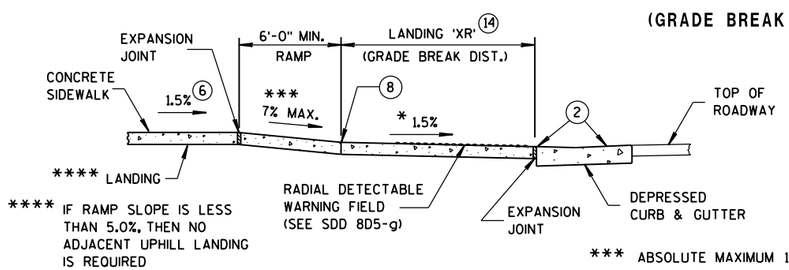
*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION B-B FOR TYPE 4A1



* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

CURB RAMP TYPE 4B1
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION C-C FOR TYPE 4B1

CURB RAMPS
RADIAL DETECTABLE WARNING FIELD APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 582

6

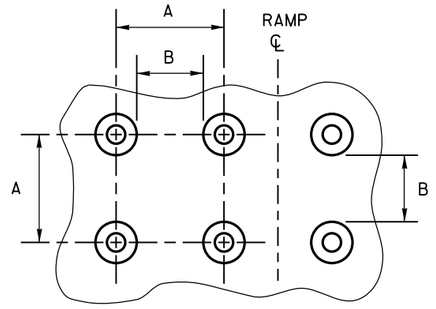
S.D.D. 8 D 5-19f

6

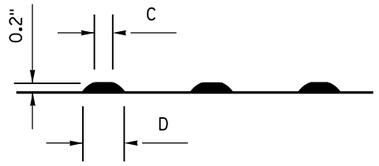
S.D.D. 8 D 5-19f

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES

DETECTABLE WARNING PATTERN DETAIL

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

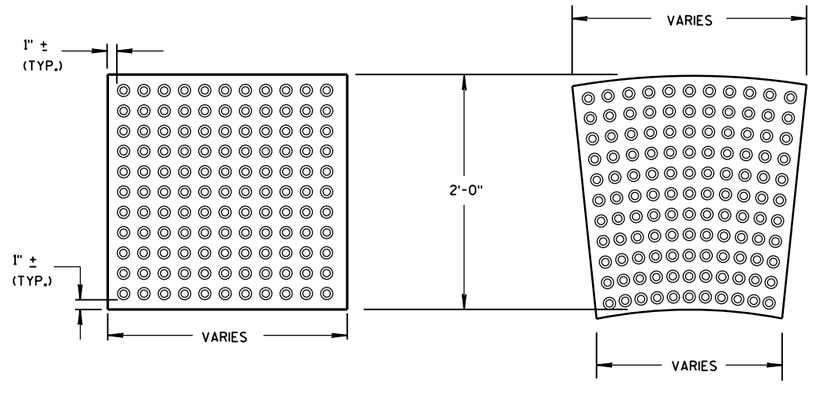
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGES IN COMBINATION WITH SQUARE PANELS ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

⑮ FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

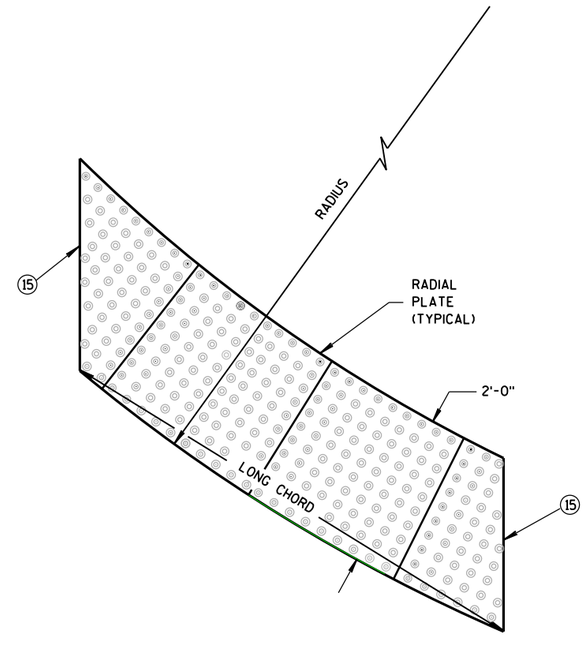


RECTANGULAR PLATES

RADIAL PLATES

DETECTABLE WARNING FIELDS (TYPICAL)

PLAN VIEW



RADIAL DETECTABLE WARNING FIELD ATTRIBUTES

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERV
ENT
FHWA

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S.D.D. 8 D 5-19g

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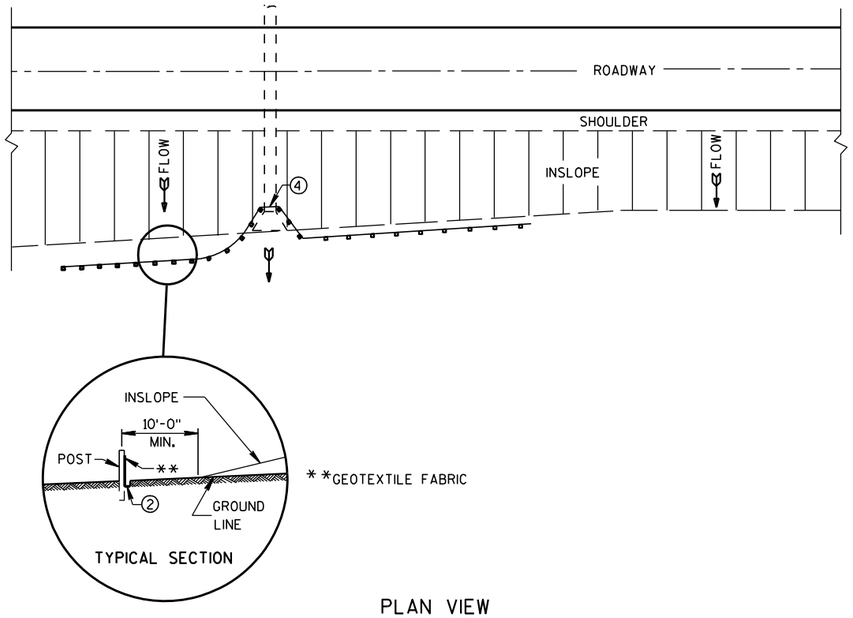
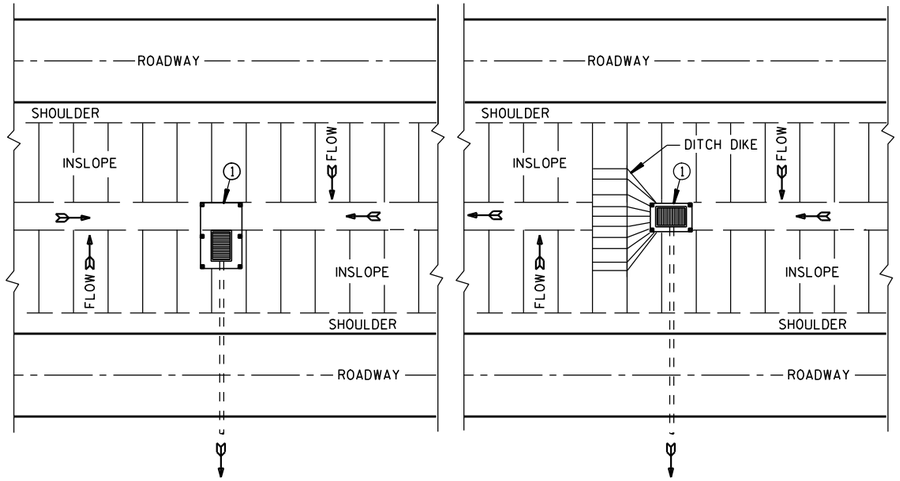
S.D.D. 8 D 5-19g



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



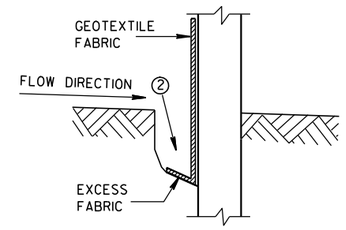
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

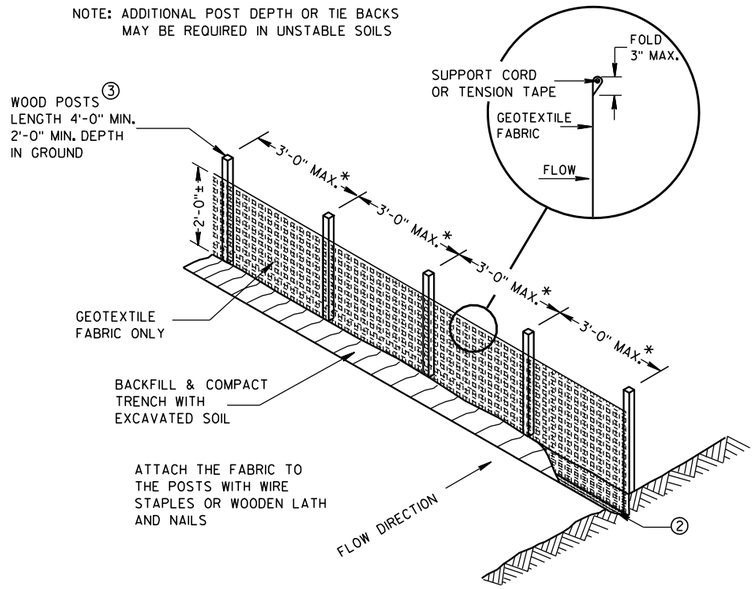
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

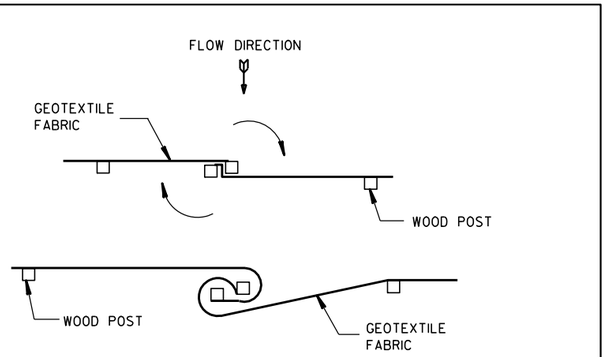
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



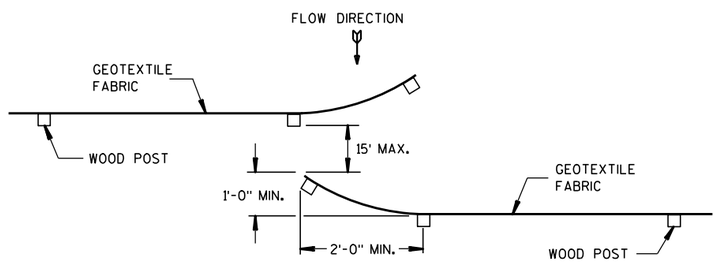
TRENCH DETAIL



SILT FENCE

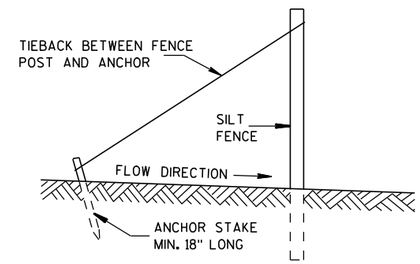


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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S.D.D. 8 E 9-6

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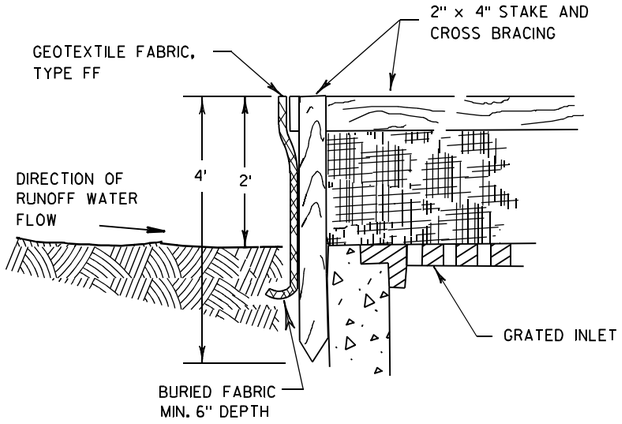
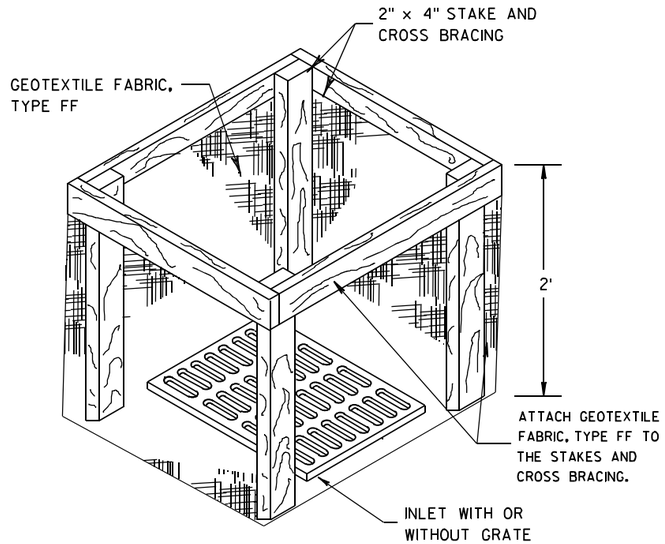
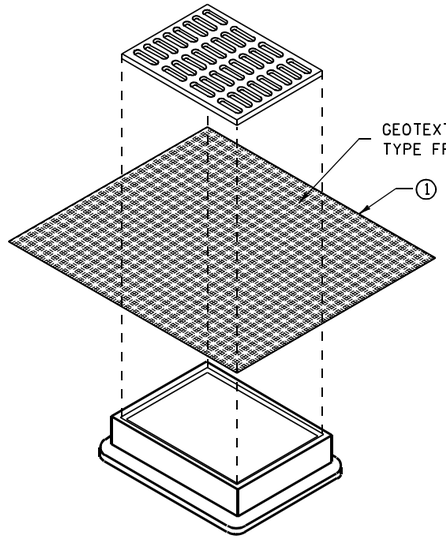
S.D.D. 8 E 9-6



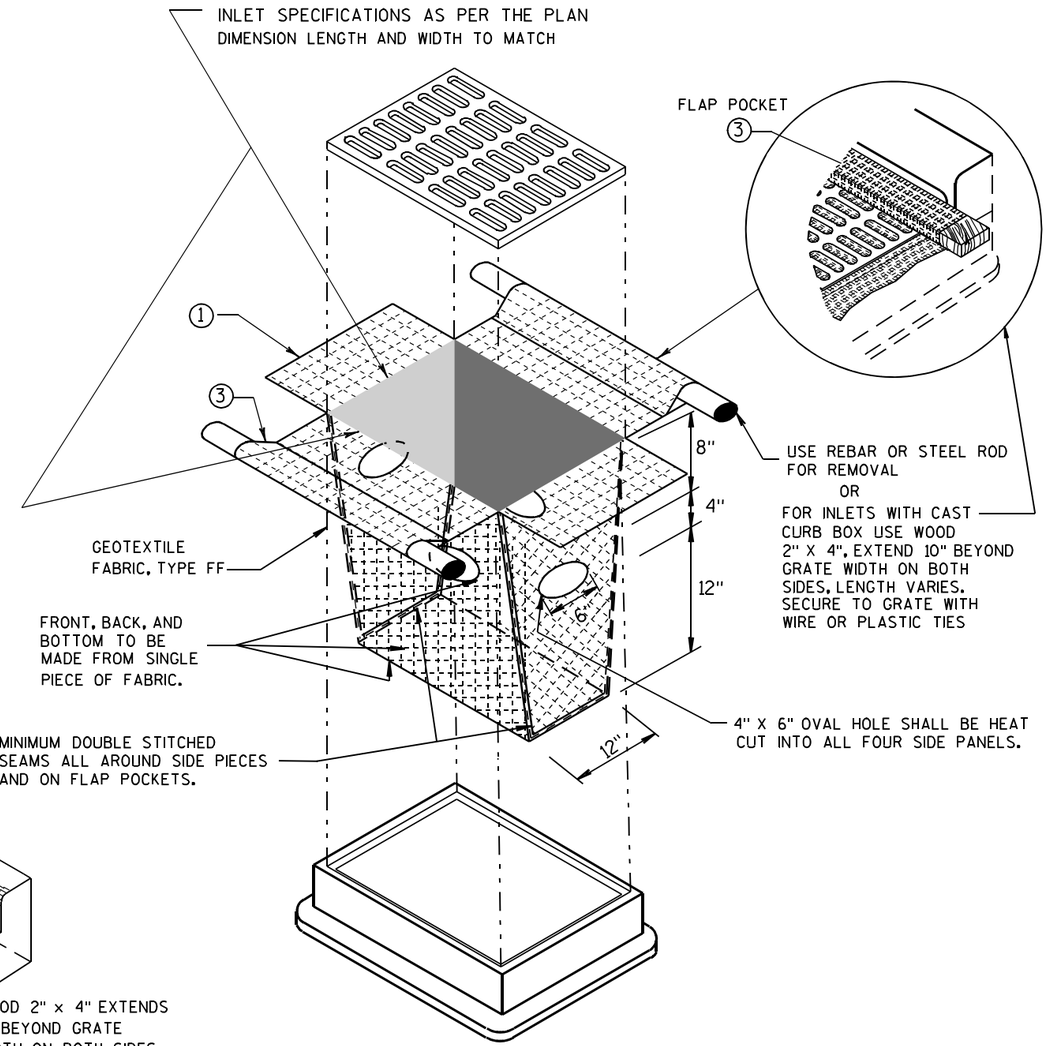


INLET PROTECTION, TYPE A



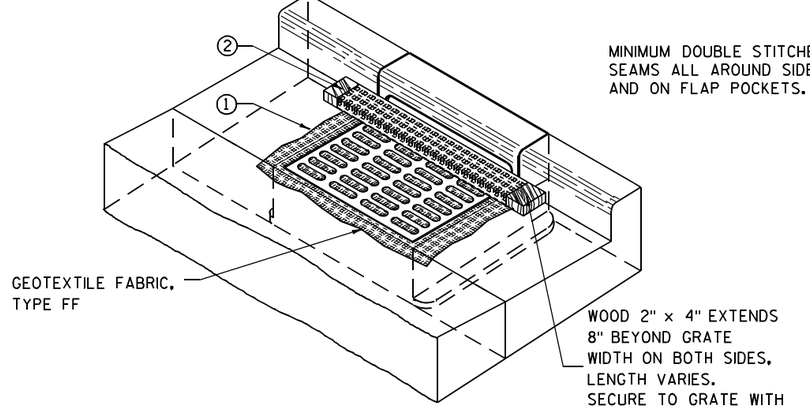
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)



INLET PROTECTION, TYPE C (WITH CURB BOX)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

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S.D.D. 8 E 10-2

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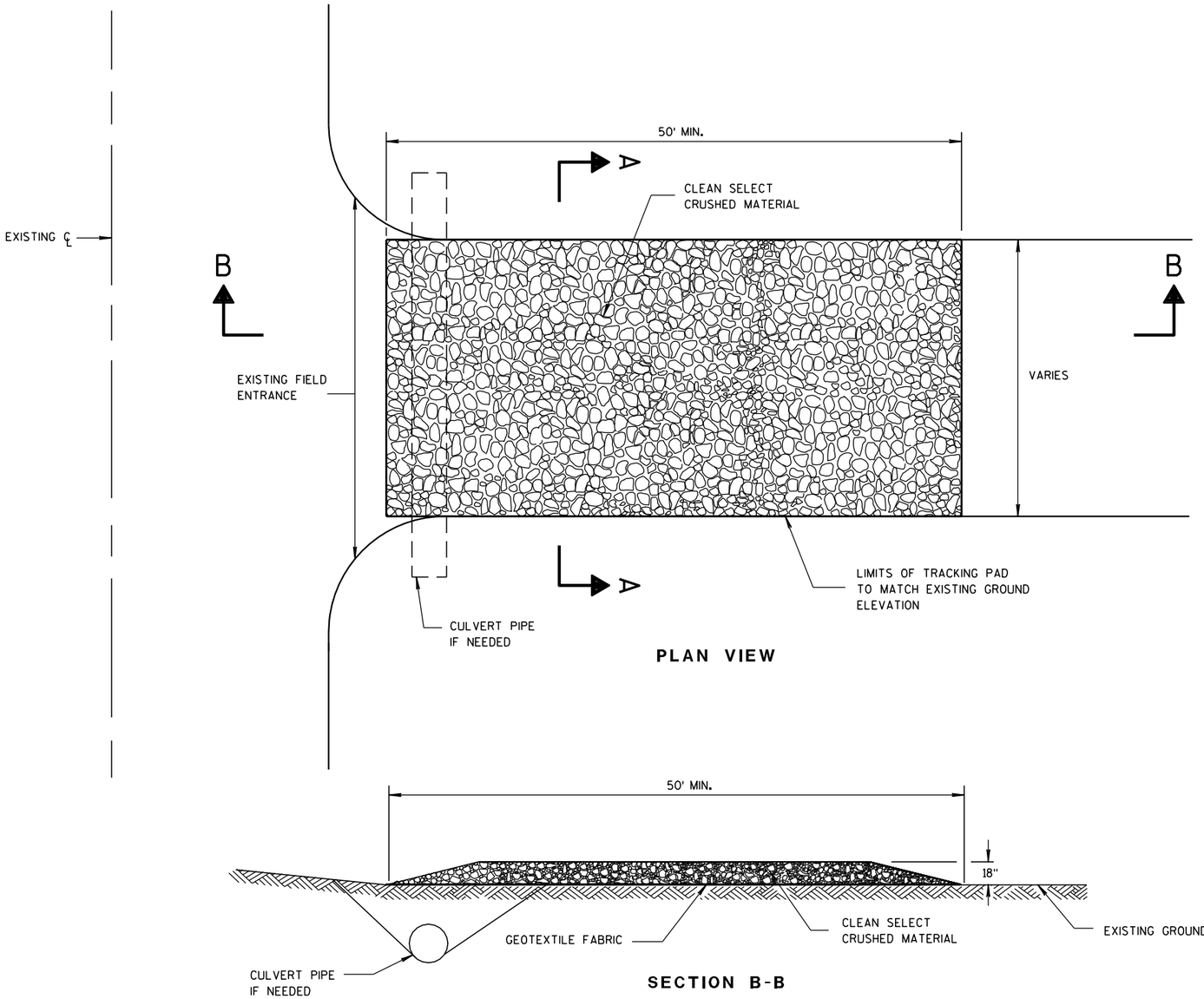
S.D.D. 8 E 10-2



PLAN VIEW

SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

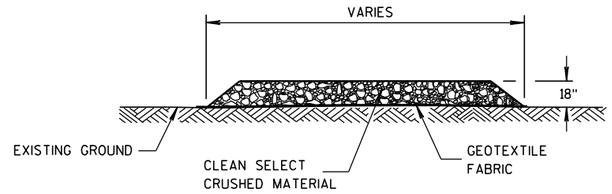
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 8 E 14-1

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S.D.D. 8 E 14-1

METAL APRON ENDWALLS

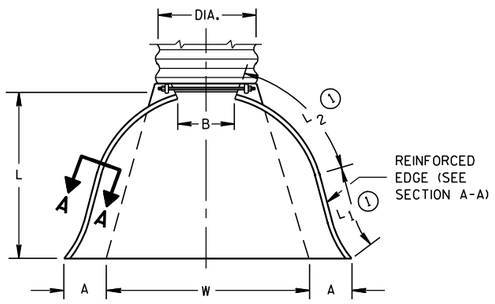
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

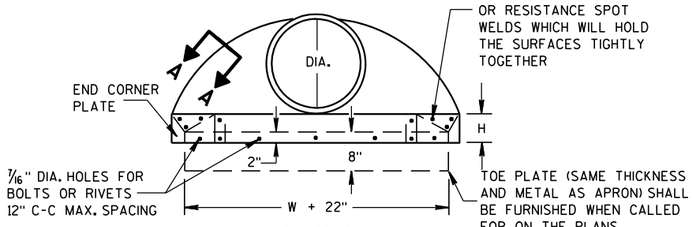
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

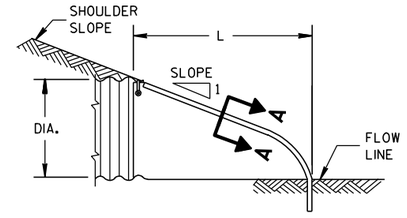
*MINIMUM
**MAXIMUM



PLAN VIEW

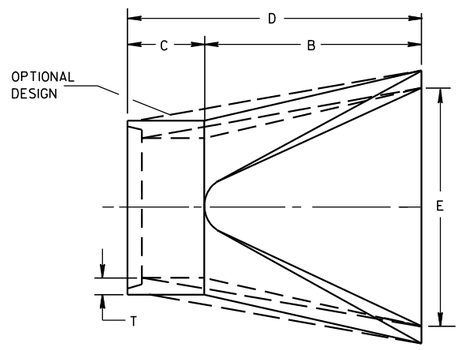


END VIEW

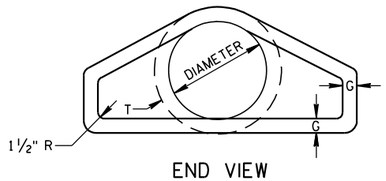


SIDE ELEVATION

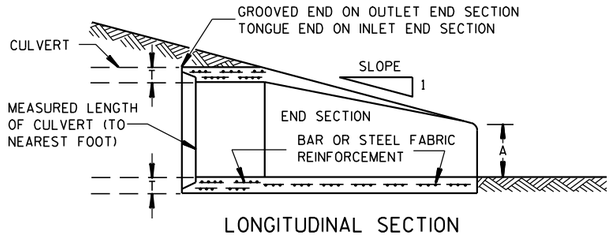
METAL ENDWALLS



PLAN

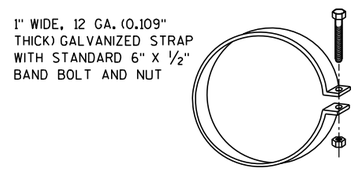


END VIEW



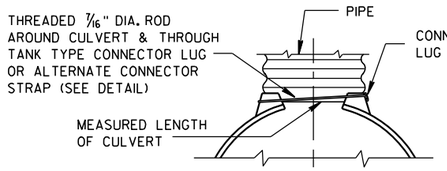
LONGITUDINAL SECTION

CONCRETE ENDWALLS

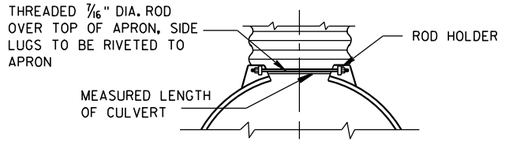


ALTERNATE FOR TYPE 1 CONNECTION

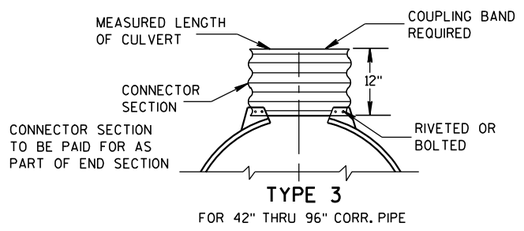
END SECTION CONNECTOR STRAP



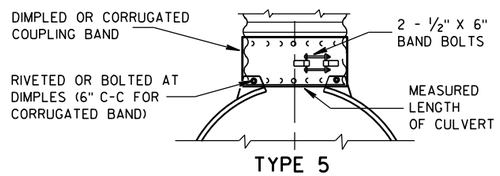
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

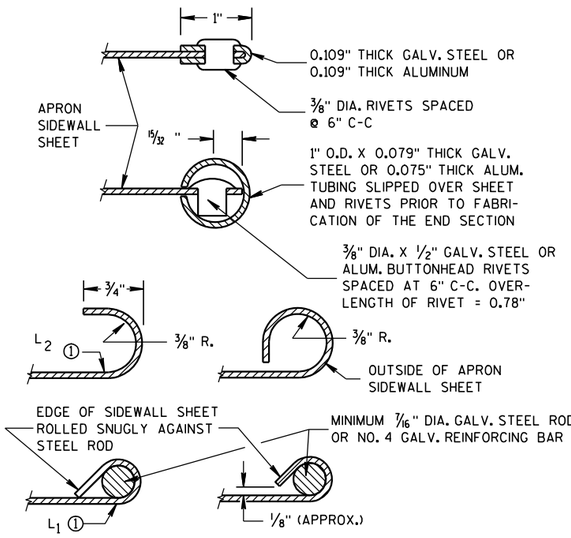
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

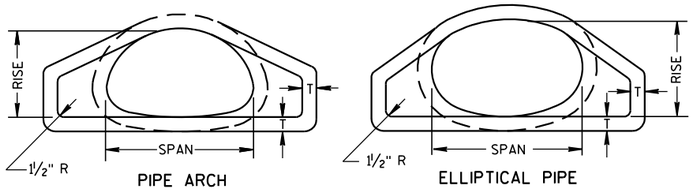
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

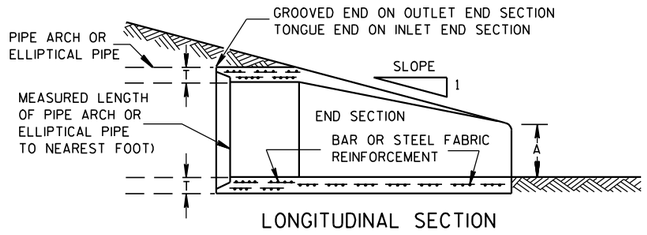
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



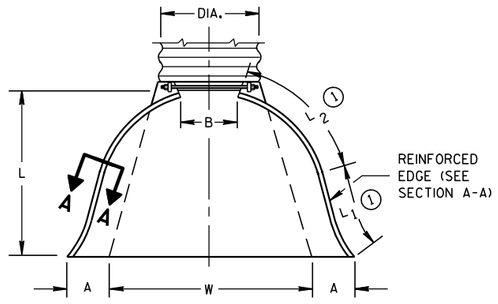
END VIEW



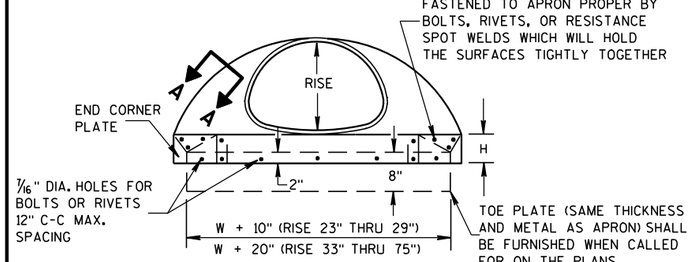
LONGITUDINAL SECTION

PLAN VIEW

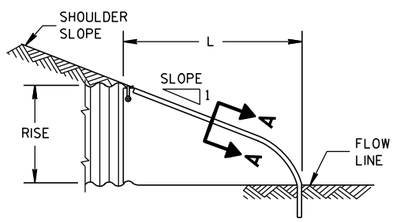
CONCRETE ENDWALLS



PLAN VIEW

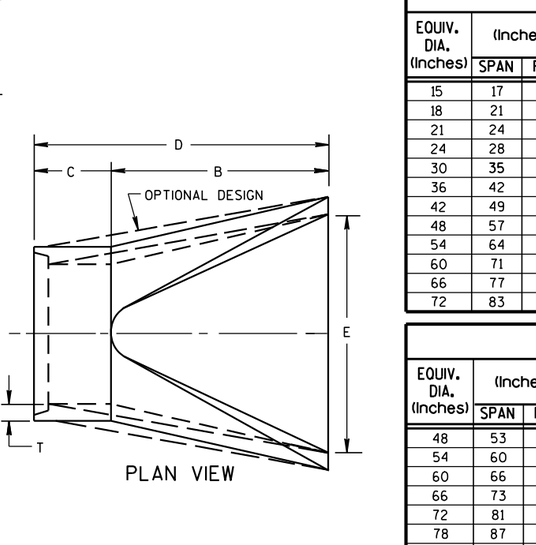


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

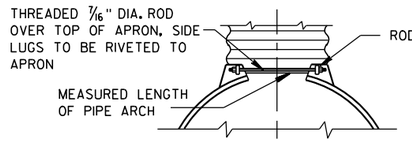
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

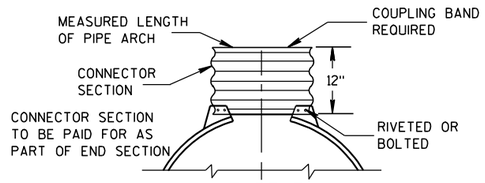
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



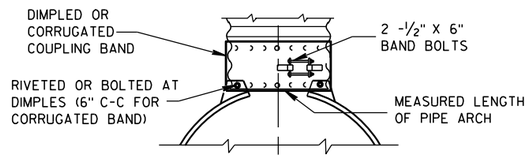
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

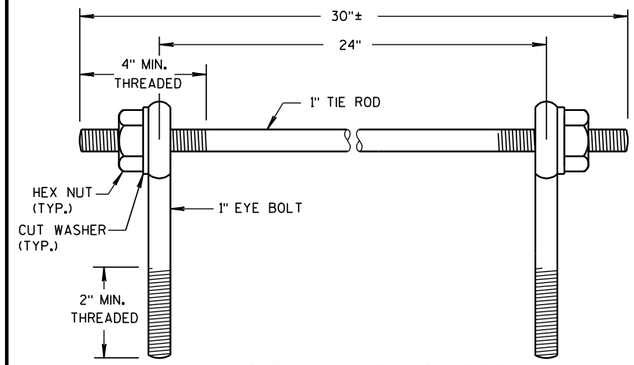
FHWA

6

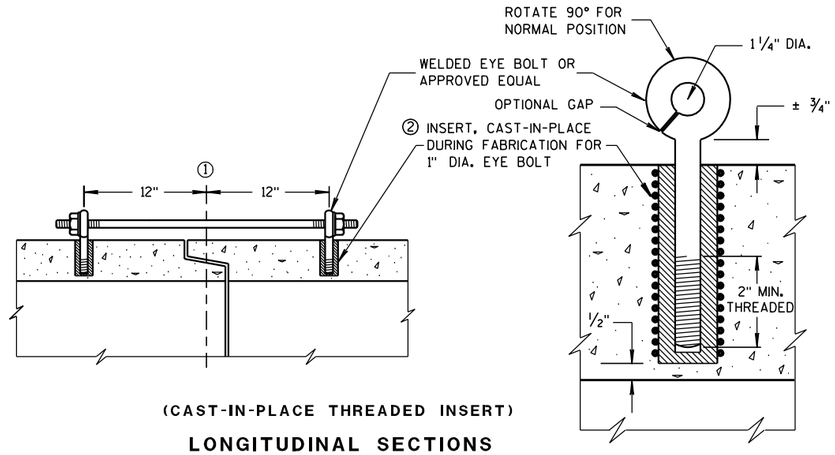
S.D.D. 8 F 2-1

6

S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

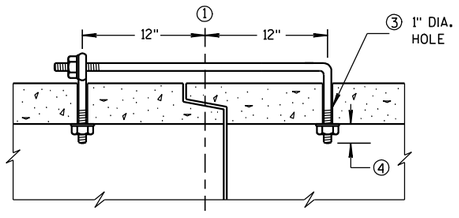
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

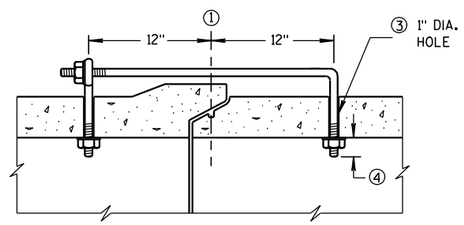
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

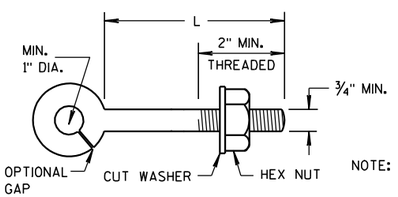


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

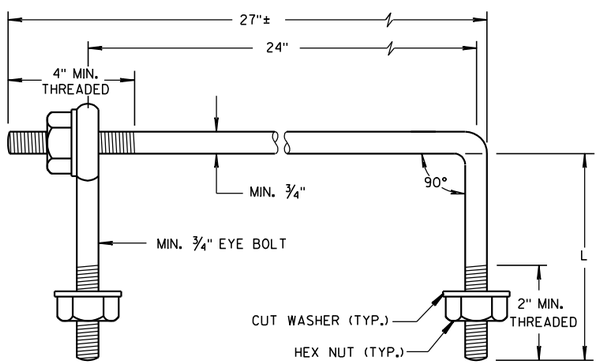
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

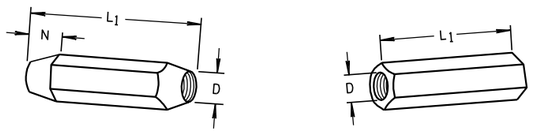
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

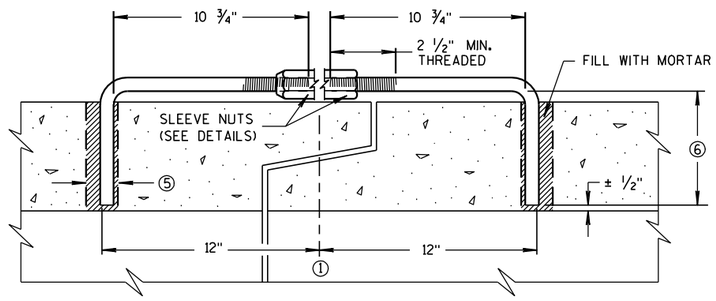
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

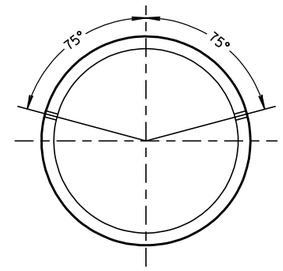
SLEEVE NUTS



LONGITUDINAL SECTION

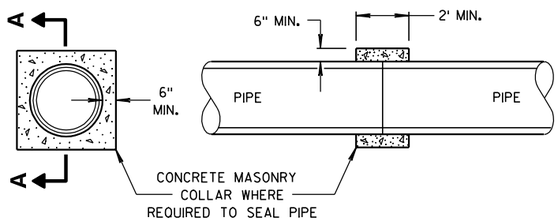
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

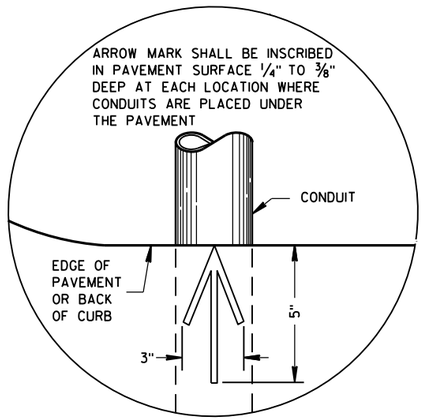
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
589
FHWA

6

S.D.D. 8 F 4-7

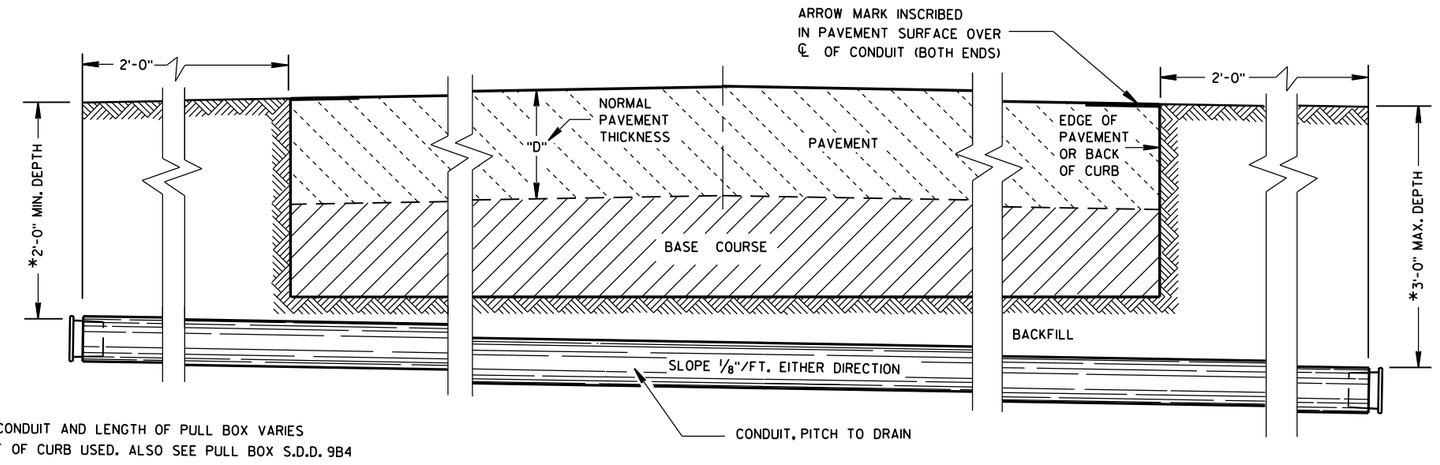
6

S.D.D. 8 F 4-7



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

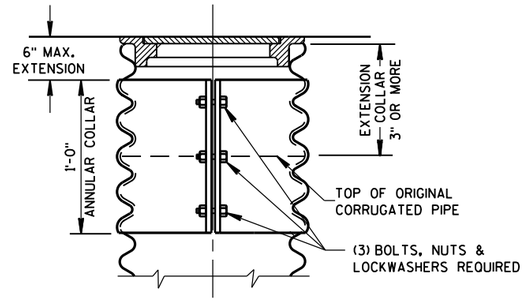
S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

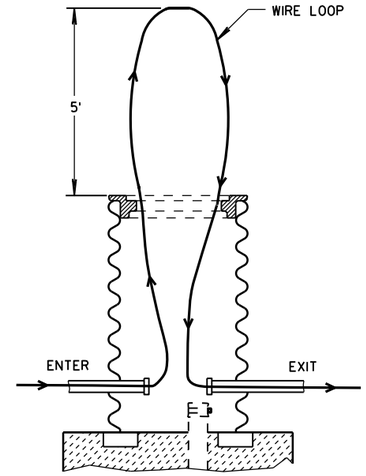
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

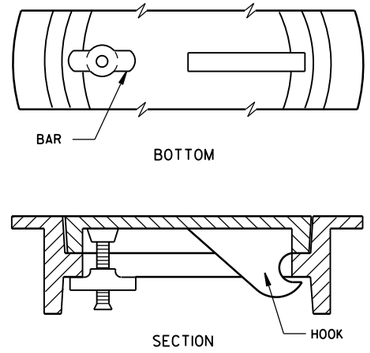
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

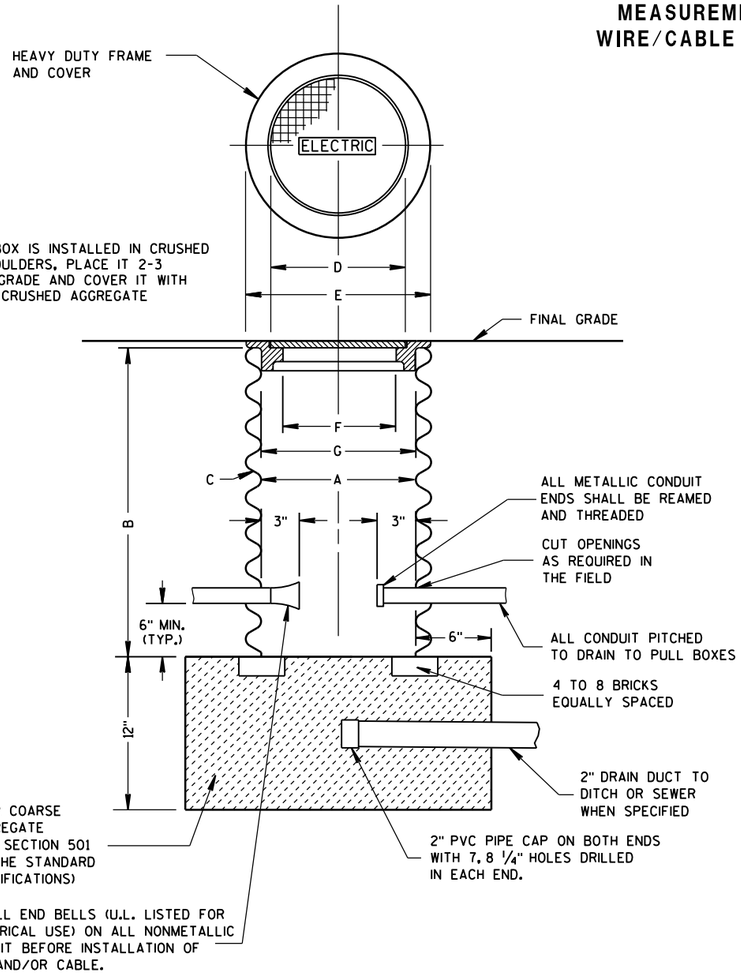


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



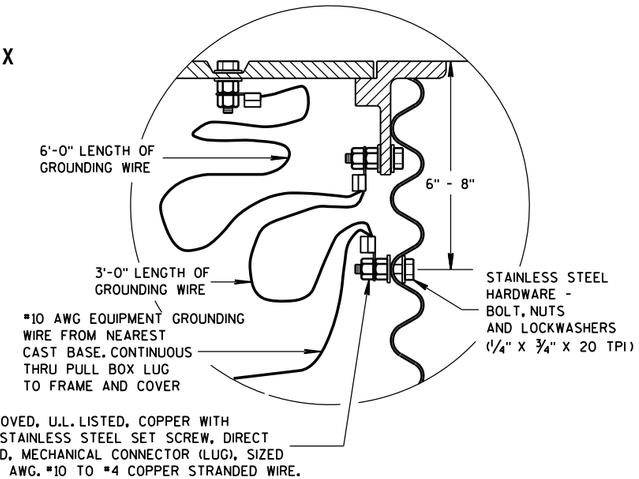
ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

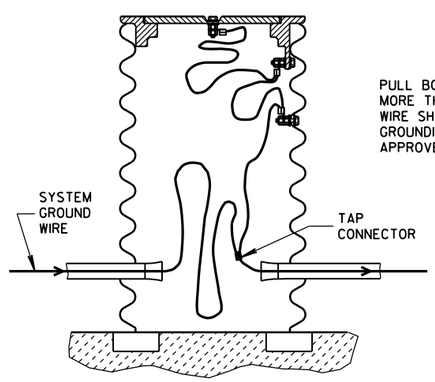
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

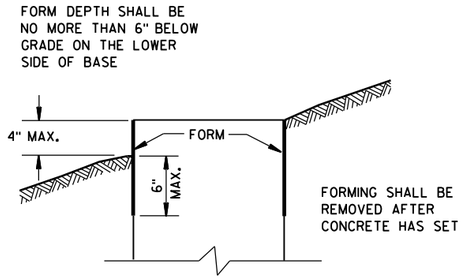
PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL
FHWA

6

S.D.D. 9 B 4-11



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

GENERAL NOTES (CONTINUED)

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 1, TYPE 2, TYPE 5, AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(3) (4) 1" DIA. X 5'-0" ANCHOR RODS.

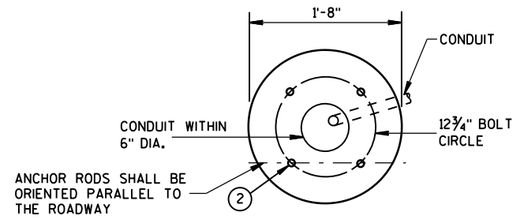
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

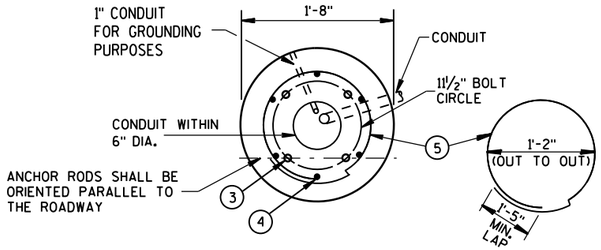
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

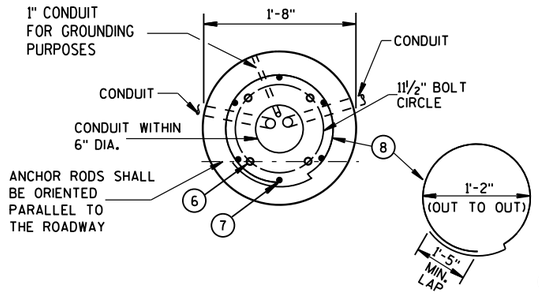
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

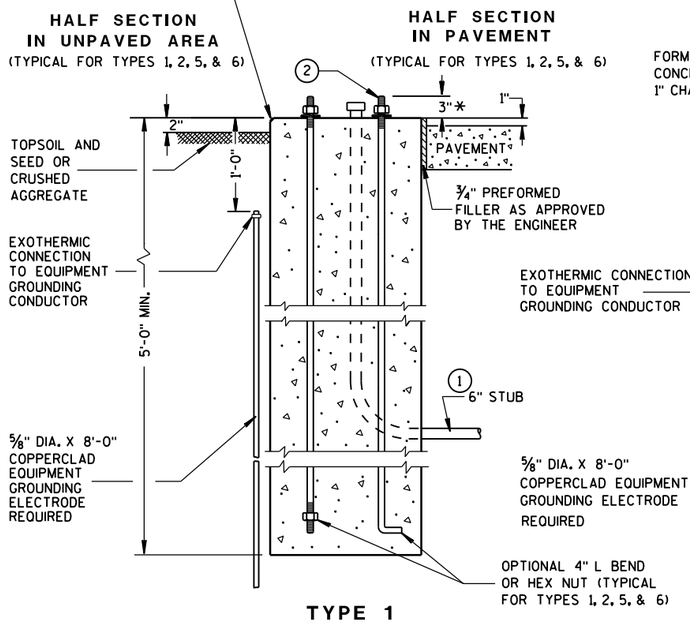
(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.

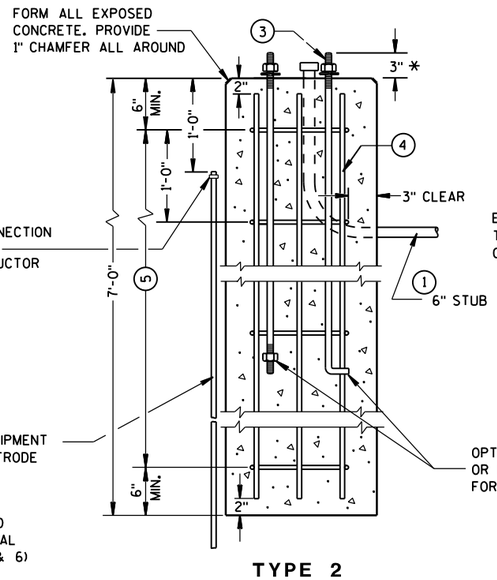
(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

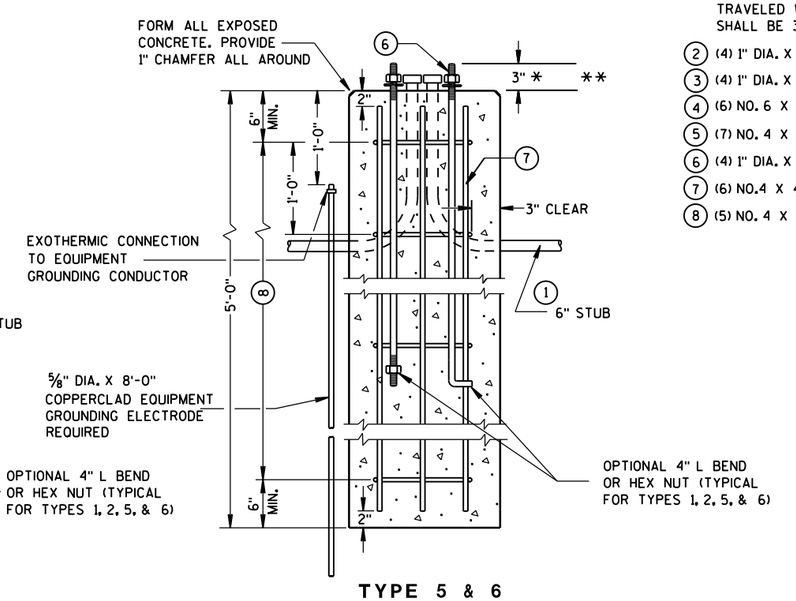












CONCRETE BASES

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWAY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

CONCRETE BASES, TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 592
FHWA

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S.D.D. 9 C 2-7

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S.D.D. 9 C 2-7

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

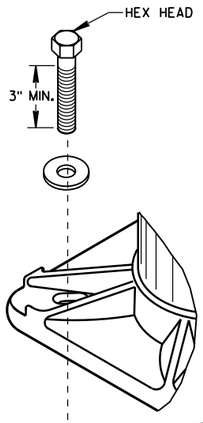
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

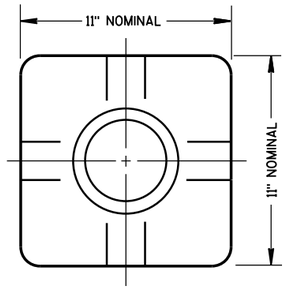
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

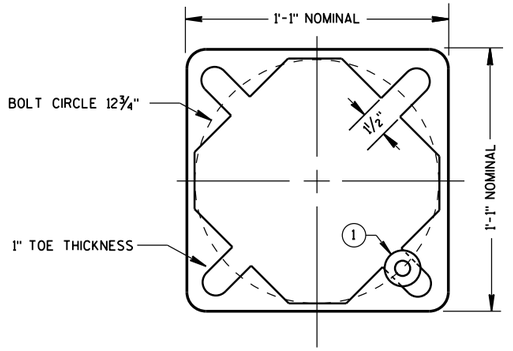
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

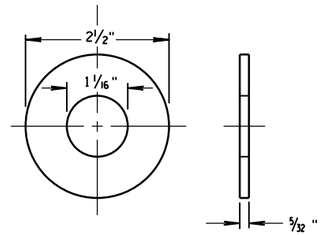




TOP VIEW
(PEDESTAL BASE)

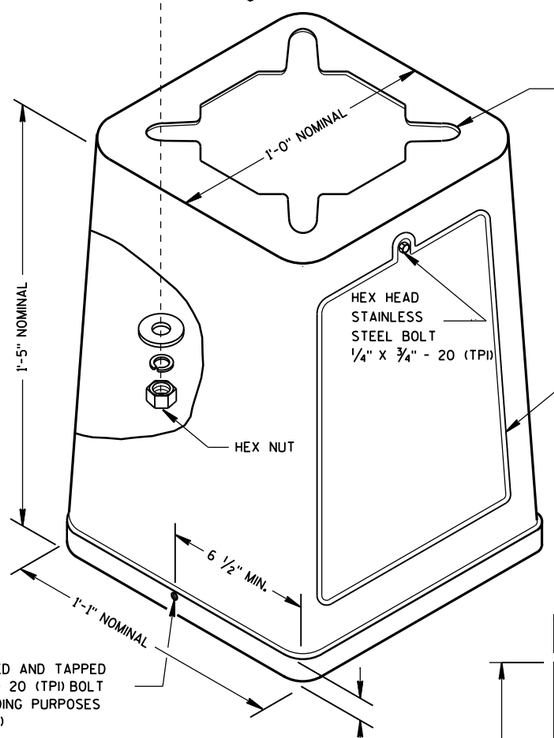


BOTTOM VIEW
(PEDESTAL BASE)

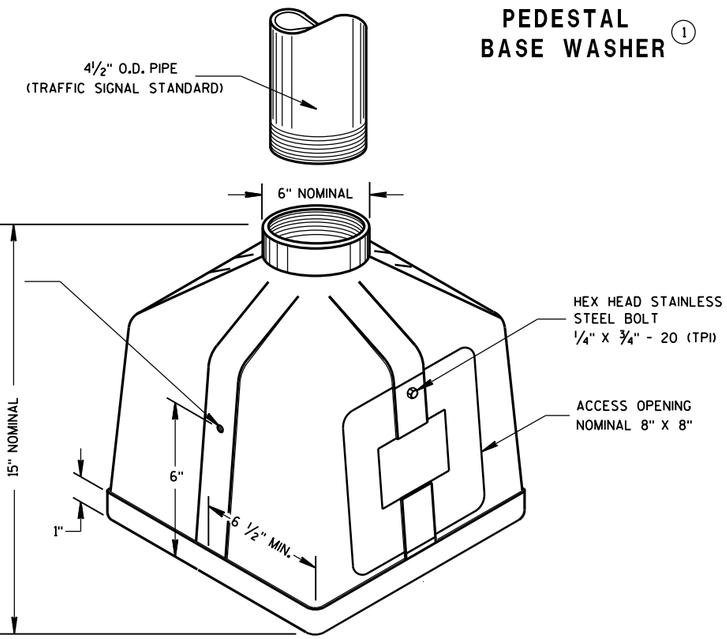


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

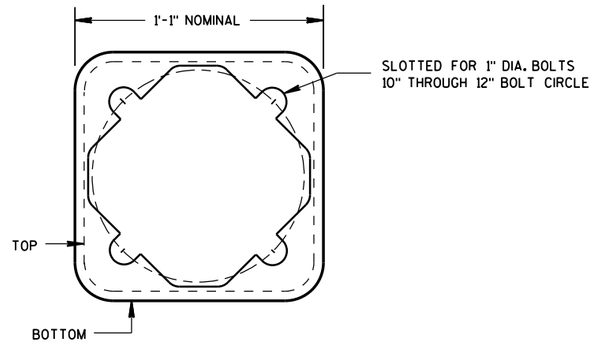


ISOMETRIC VIEW

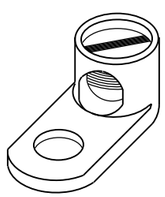


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

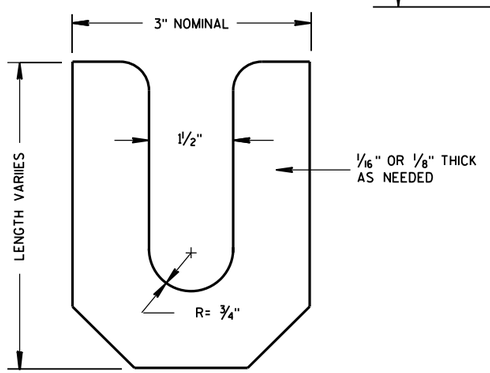


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 9 C 3-4

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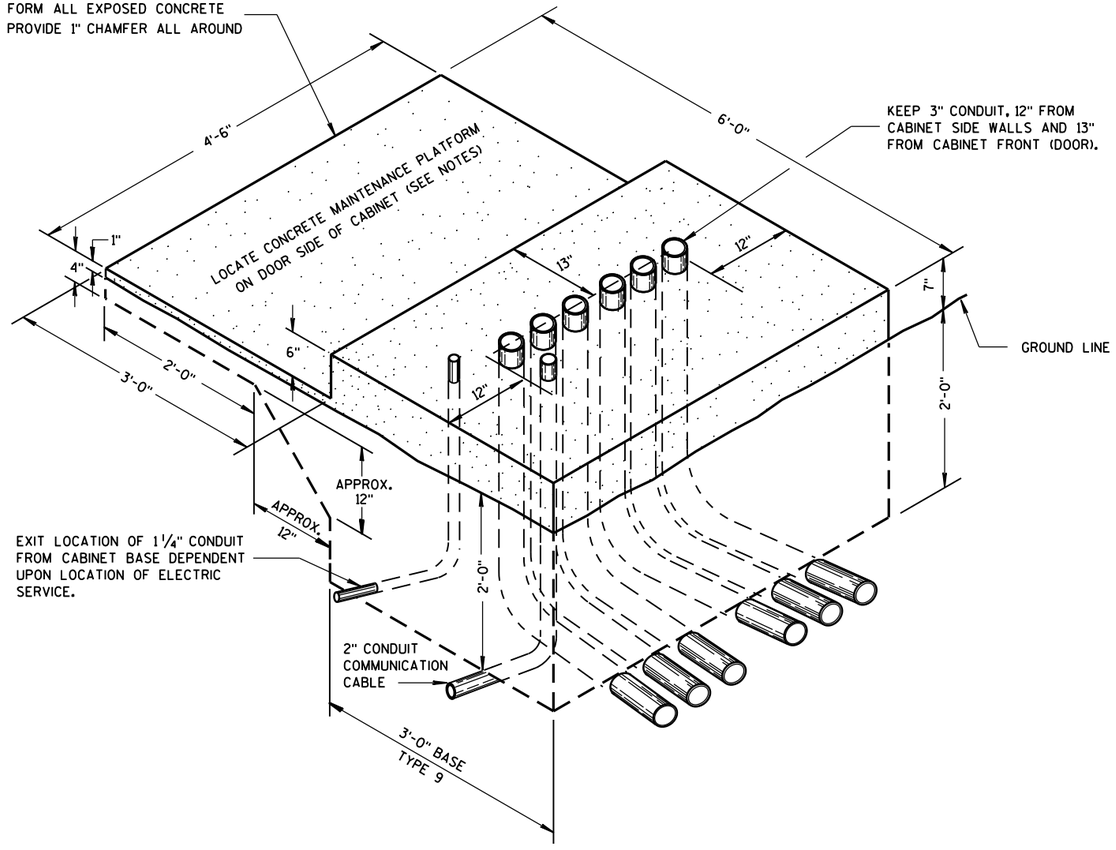
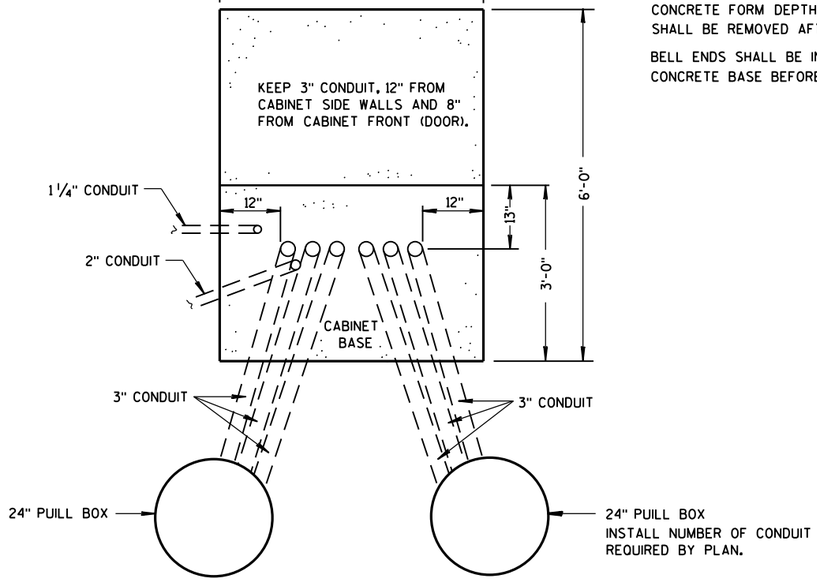


ISOMETRIC VIEW

TYPE 9, SPECIAL

(C.Y. CONCRETE = APPROX. 1.56)



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR ½ INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS WITH A PULLOUT STRENGTH OF 9,000 LBS. TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONDUIT EXITING THE CONCRETE BASE (SIX THREE INCH) SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 594
FHWA

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL END INSTALLED. ALL CONDUIT SHALL BE SLOPED TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUIT IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

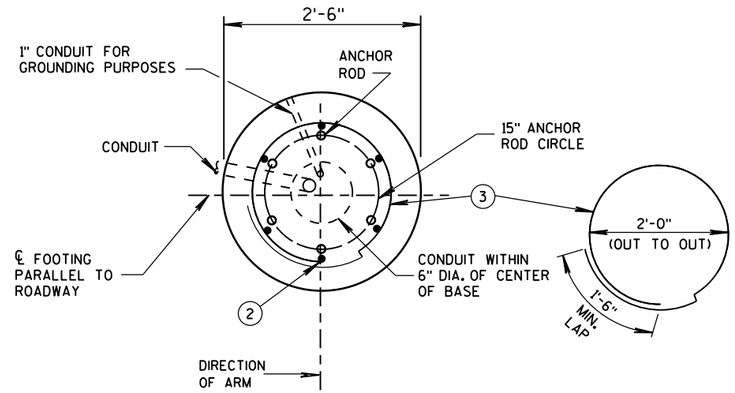
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

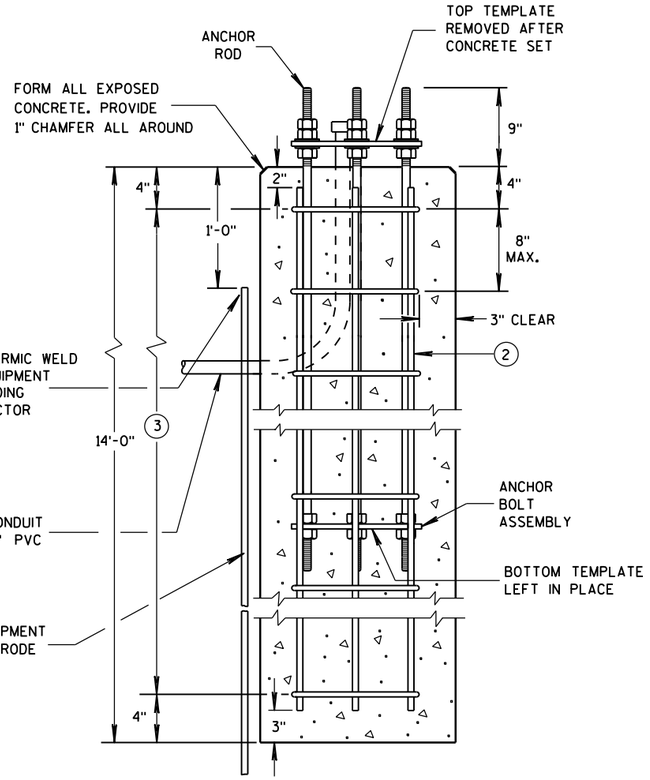
(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES, (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (6) NO. 6 X 13'-7" BAR STEEL REINFORCEMENT.

(3) (21) NO. 5 X 7'-10" BAR STEEL REINFORCEMENT @ 8" MAX. C-C.

CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 641.2.2.3 OF THE STANDARD SPECIFICATION)	fy=55,000 p.s.i.
TEMPLATES, ASTM, A709 GRADE 36	fy=36,000 p.s.i.

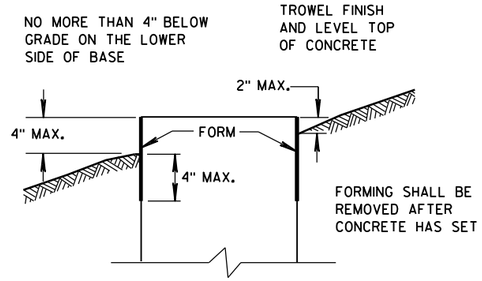




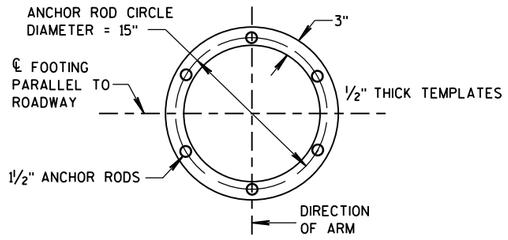
CONCRETE BASE TYPE 10

(FOR TYPE 9 & 10 & OVER HEIGHT (OH) POLES)

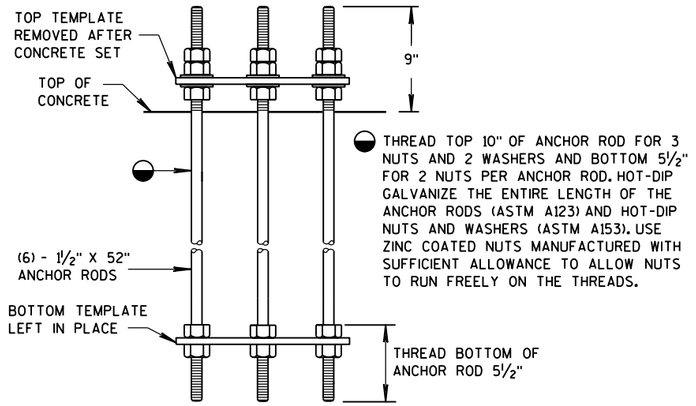
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.



FORMING DETAIL



TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 10 ANCHOR ASSEMBLY

QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	2.5
LBS. OF HOOP BAR STEEL	172
LBS. OF VERTICAL BAR STEEL	122

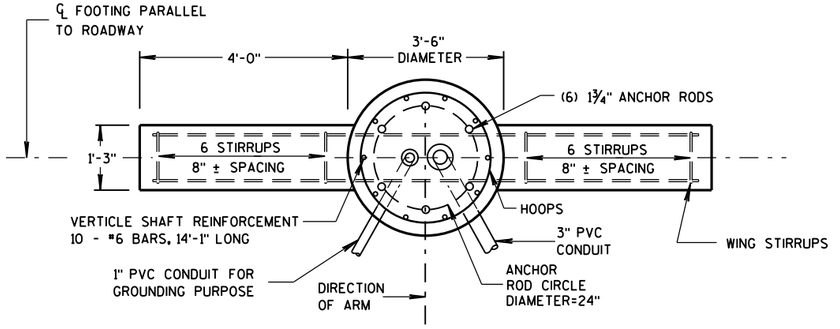
CONCRETE BASE TYPE 10

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

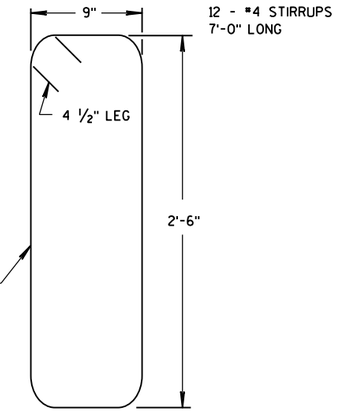
APPROVED
May 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
595
FHWA

6

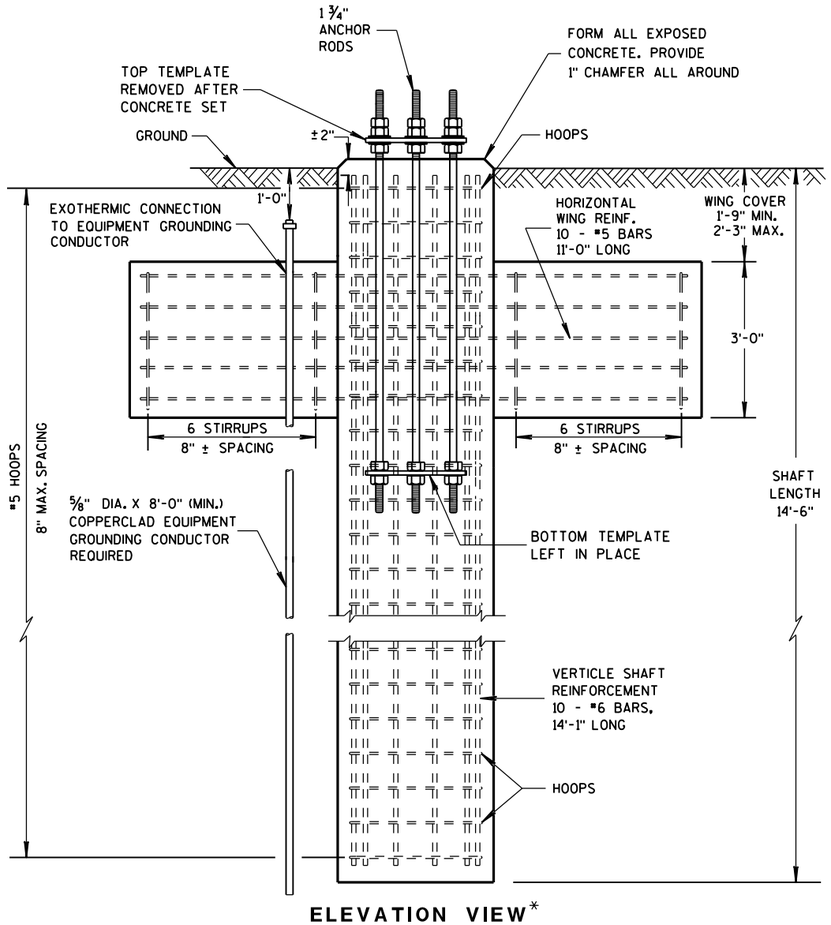
S.D.D. 9 C 11-10



PLAN VIEW

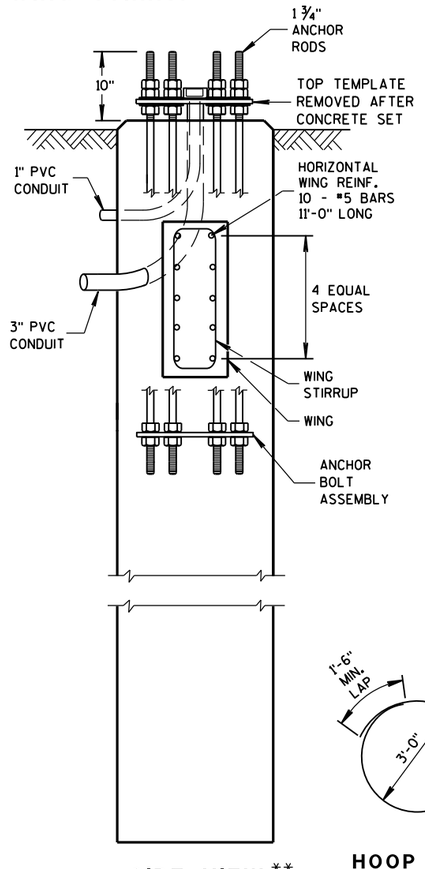


WING STIRRUP



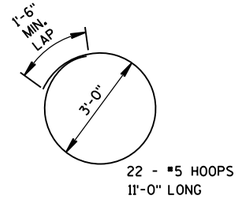
ELEVATION VIEW*

* CONDUITS ARE NOT SHOWN ON THIS VIEW FOR CLARITY



SIDE VIEW**

** HOOPS AND VERTICAL SHAFT REINFORCEMENT NOT SHOWN ON THIS VIEW FOR CLARITY



HOOP DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR ROD PROJECTION ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF THE UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BASES (SHAFT), BELOW THE WING, SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUNG THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZE AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASE SHALL BE 4½" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF THE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTOR FITTINGS, UL LISTED FOR ELECTRICAL USE, SHALL BE USED.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1-INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4-FOOT COIL OF WIRE ABOVE THE CONCRETE BASE, THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS.

THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVEL WAY SHALL BE 24-INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18-INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36-INCHES, (GREATER THAN 36-INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH THE WRITTEN APPROVAL OF THE ENGINEER.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 641.2.2.3 OF THE STANDARD SPECIFICATIONS	fy=55,000 p.s.i.
TEMPLATES, ASTM A709 GRADE 36	fy=36,000 p.s.i.

(FOR TYPE 12 & 13 & OVER HEIGHT (OH) POLES)

CONCRETE = 6.3 C.Y.
H.S. REINFORCEMENT = 635 LBS.

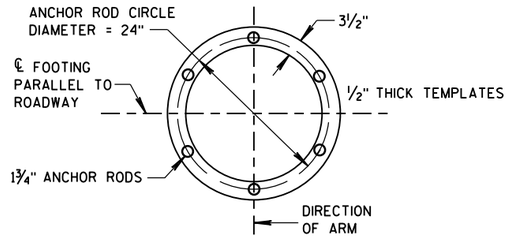
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION.
SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.

CONCRETE BASE TYPE 13

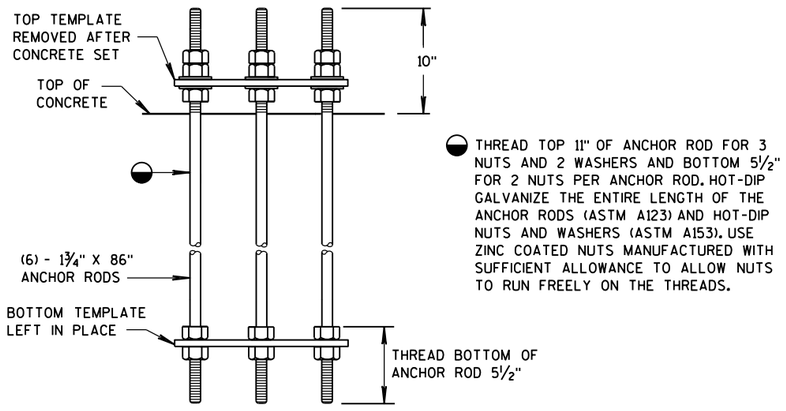
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 9 C 12-9a

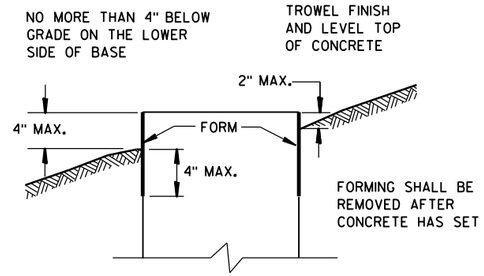


TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 13 ANCHOR ASSEMBLY



FORMING DETAIL

6

S.D.D. 9 C 12-9b

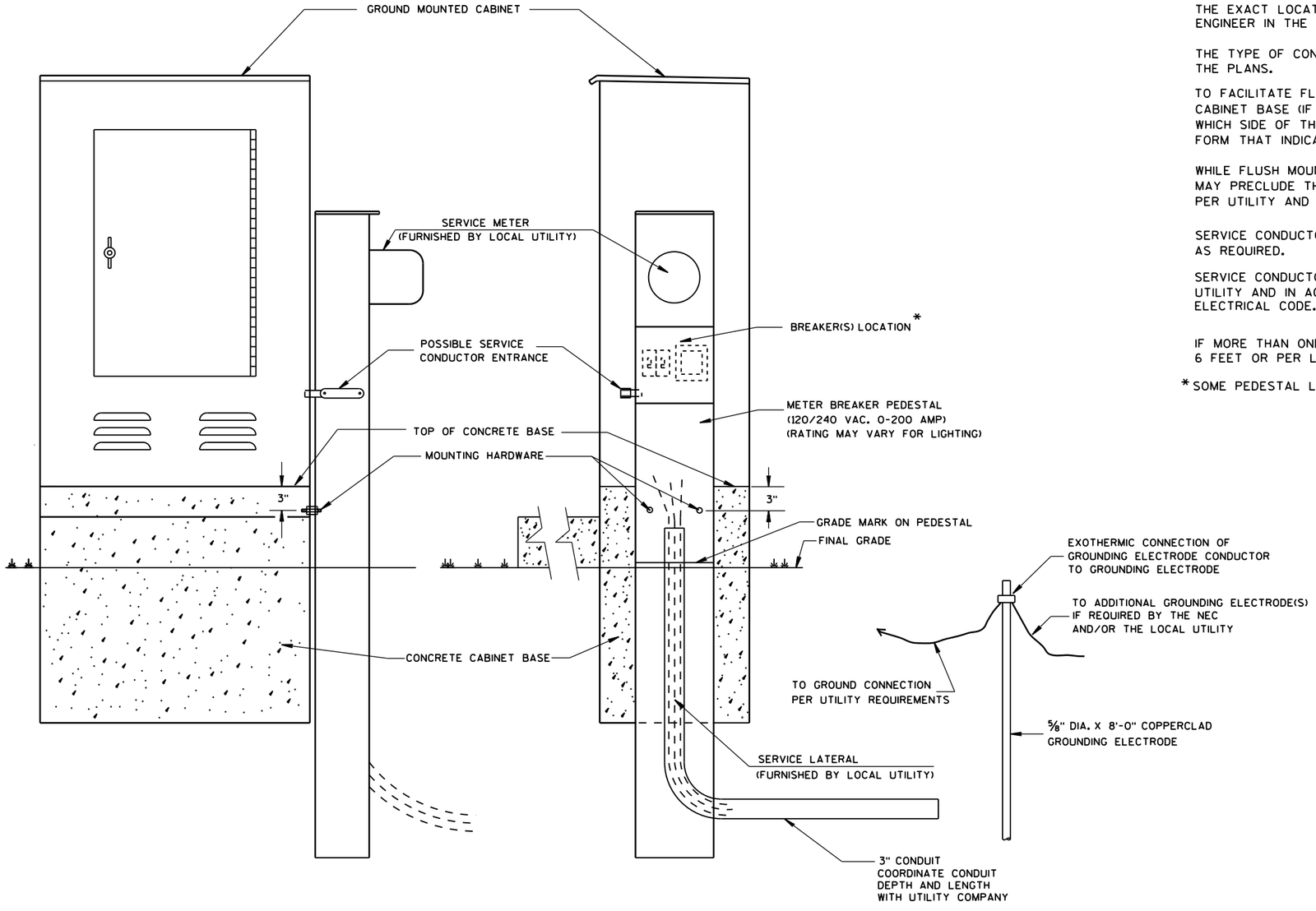
CONCRETE BASE TYPE 13

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 C 12-9b



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

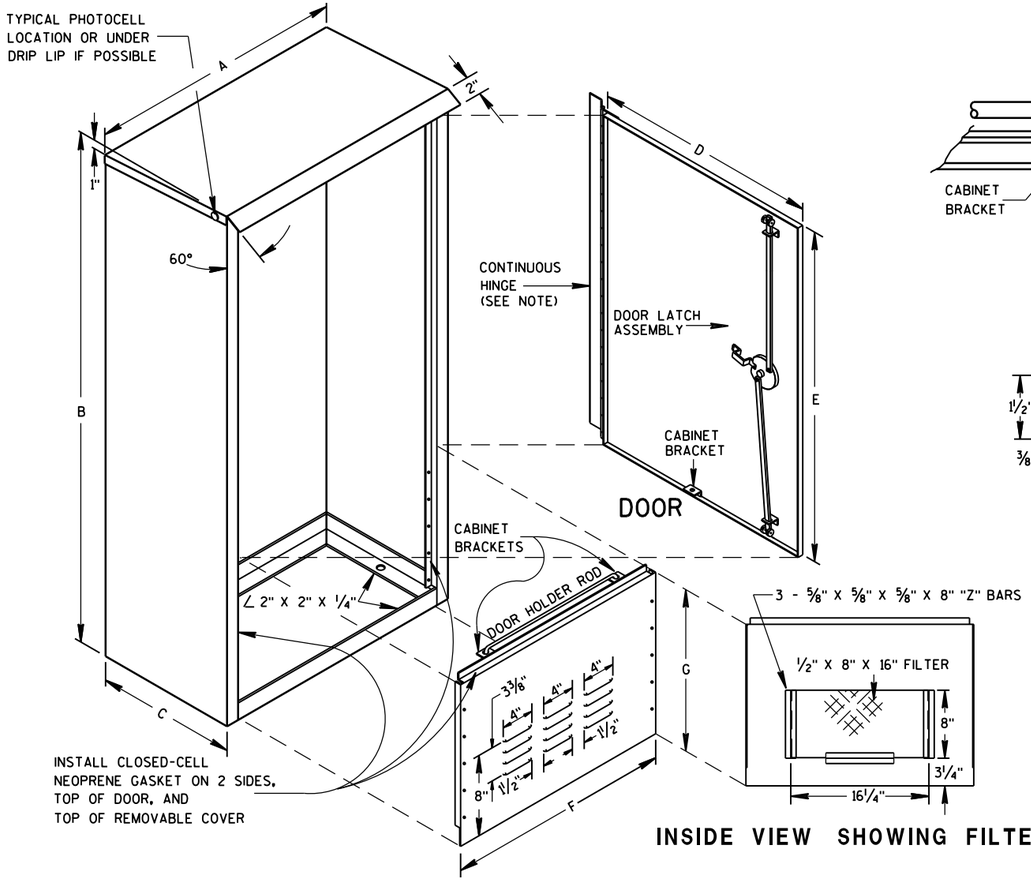
* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

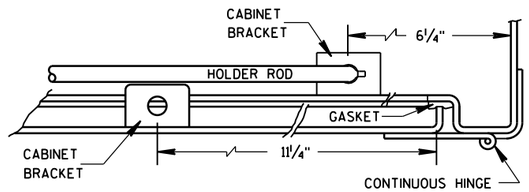
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6
S.D.D. 9 D 1-5

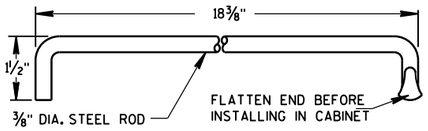


REMOVABLE COVER

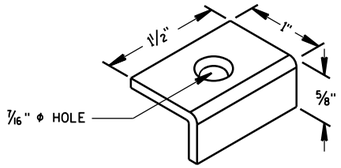
INSIDE VIEW SHOWING FILTER



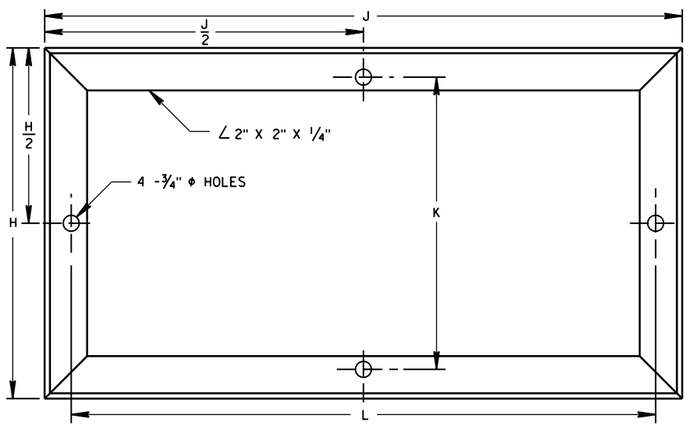
HINGE & DOOR HOLDER



HOLDER ROD



CABINET BRACKET



MOUNTING BASE

TABLE OF DIMENSIONS (INCHES)

MARK	CABINET TYPE		
	3060	3860	3866
A	30	38	38
B	60	60	66
C	16 1/2	16 1/2	24
D	26 1/2	34 3/4	33 3/4
E	38 3/4	38 3/4	38 3/4
F	26 1/2	34 3/4	33 3/4
G	19	19	25
H	16 1/2	16 1/2	24
H/2	8 1/4	8 1/4	12
J	30	38	38
J/2	15	19	19
K	13 3/4	13 3/4	21 1/4
L	27 1/2	35 1/2	35 1/2

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PRIME WITH PHOSPHATE TREATMENT AND PRIMER.

FINISH EXTERIOR SURFACES WITH RUSTOLEUM #906 SILVER GRAY OR APPROVED EQUAL.

FINISH INTERIOR WITH RUSTOLEUM #2766 HIGH GLOSS WHITE ENAMEL OR APPROVED EQUAL.

ALL SHEET METAL PARTS SHALL BE .125 INCH THICK ALUMINUM.

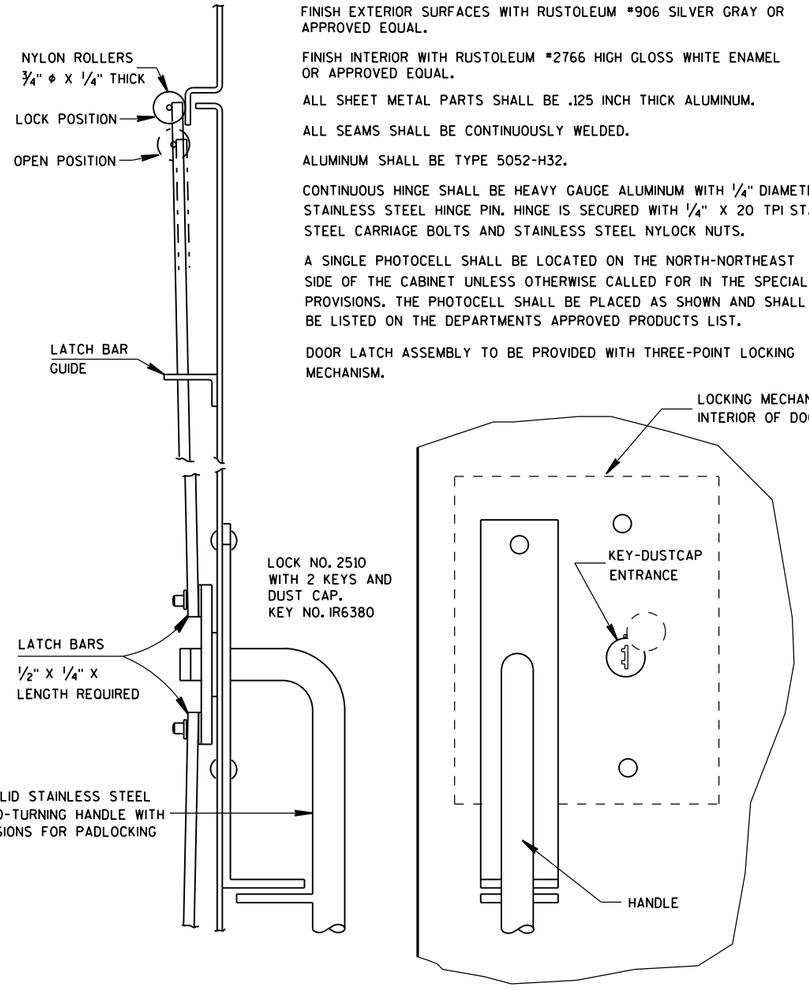
ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

ALUMINUM SHALL BE TYPE 5052-H32.

CONTINUOUS HINGE SHALL BE HEAVY GAUGE ALUMINUM WITH 1/4" DIAMETER STAINLESS STEEL HINGE PIN. HINGE IS SECURED WITH 1/4" X 20 TPI STAINLESS STEEL CARRIAGE BOLTS AND STAINLESS STEEL NYLOCK NUTS.

A SINGLE PHOTOCELL SHALL BE LOCATED ON THE NORTH-NORTHEAST SIDE OF THE CABINET UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISIONS. THE PHOTOCELL SHALL BE PLACED AS SHOWN AND SHALL BE LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST.

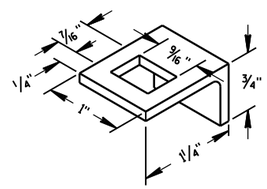
DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.



SIDE VIEW

FRONT VIEW

LATCH ASSEMBLY



LATCH BAR GUIDE

SIGNAL CONTROL CABINET

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL 599
FHWA

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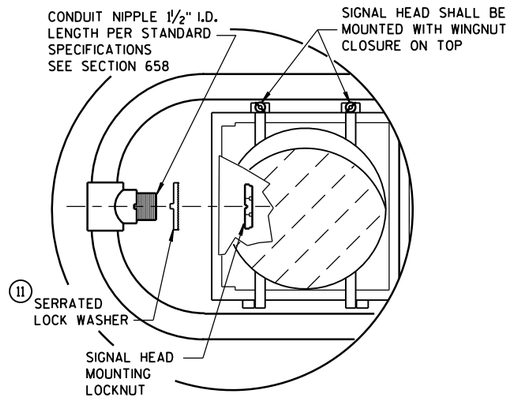
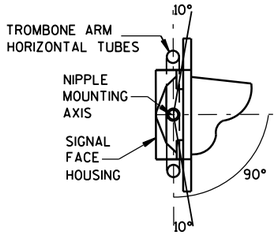


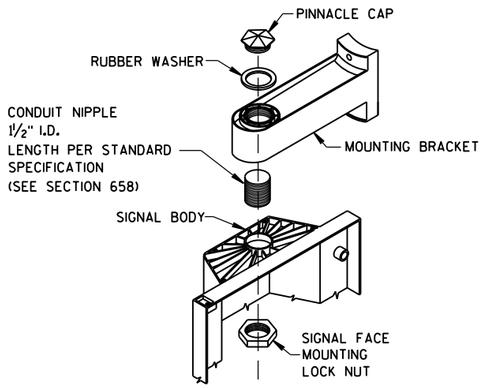
HORIZONTAL SIGNAL HEAD MOUNTING DETAIL *

* SIGNAL HEAD ATTACHMENT ALSO APPLYS TO MOUNTING AT CROSS BAR



SECTION A-A

(10 DEGREES TILT REQUIREMENT OF FACE(S) IN THE TROMBONE MOUNTING)



SIGNAL FACE MOUNTING DETAIL

(BANDED)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

POLES SHALL BE EITHER ALUMINUM OR GALVANIZED STEEL AS CALLED FOR IN THE CONTRACT.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

A PULL WIRE/ROPE IN ACCORDANCE WITH STANDARD SPECIFICATION 652 SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

TYPE 2 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063-T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ¼" X ¾" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.

(2) SIGNAL FACE MOUNTING BRACKETS. MOUNT WITH CAP SCREWS AND BANDING. (SEE STANDARD SPECIFICATIONS - SEC. 658)

(3) GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.

(4) SECURELY MOUNT DULL BLACK POLYCARBONATE BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURER'S RECOMMENDATIONS.

(5) POLE MOUNTED SIGNAL FACES SHALL REQUIRE 1 OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACES.

(6) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(7) MOUNTING BRACKET NIPPLES FOR THE SIGNAL FACE(S) SHALL BE 2 INCHES IN LENGTH AND 1½ INCHES IN DIAMETER. (SEE STANDARD SPECIFICATION - SECTION 658).

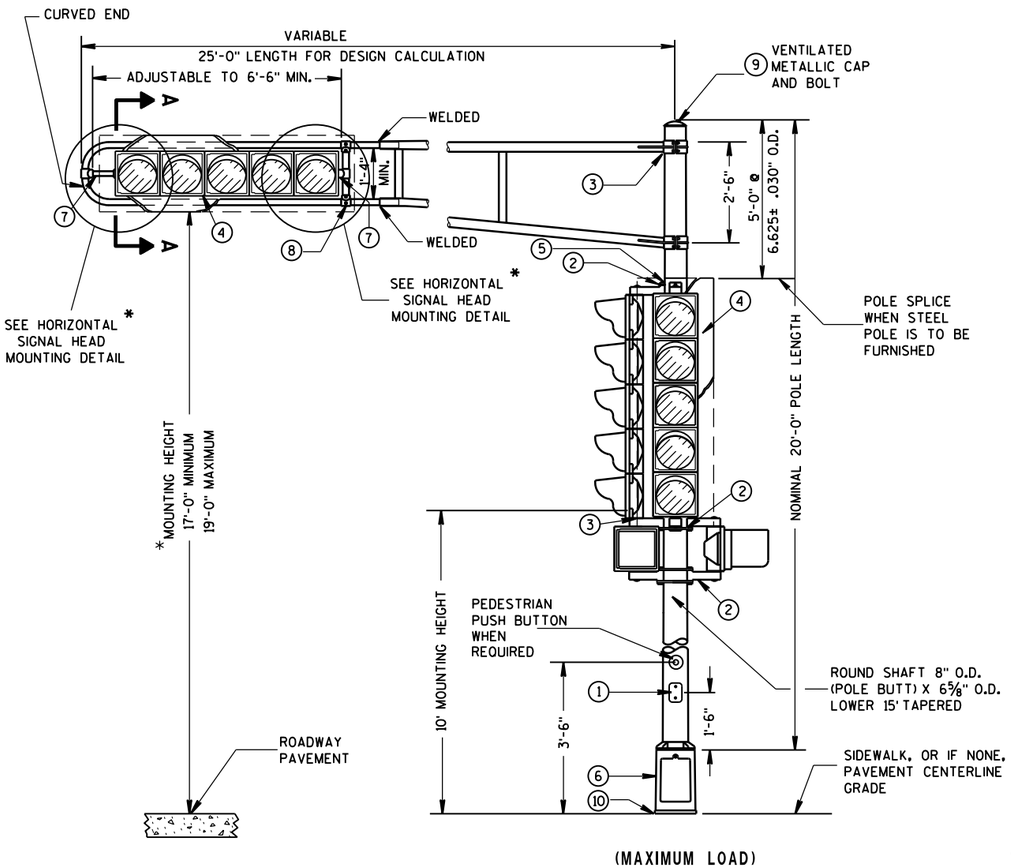
(8) VERTICAL STRUT (ADJUSTABLE). ONE (1) SET SCREW (¼" X ¾" LONG - 20 TPI, STAINLESS STEEL, HEX HEAD) INTO EACH ARM MEMBER IF STRUT IS THE SLIDING TYPE.

(9) FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

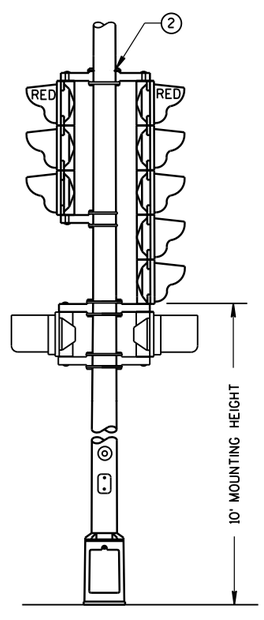
(10) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

(11) USE SERRATED LOCK WASHERS WITH NOTCHES BETWEEN END TEE AND SIGNAL HEAD.

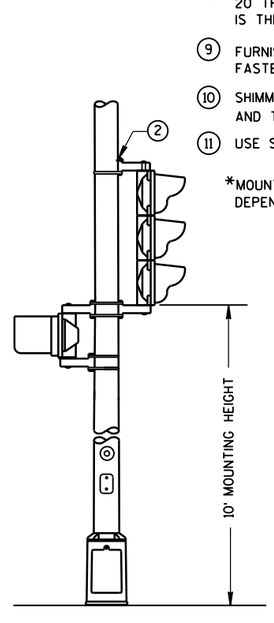
*MOUNTING HEIGHT LIMITATION DIMENSIONS OF THE TROMBONE MAST ARM WILL BE DEPENDENT UPON THE USE/NON-USE OF A TRANSFORMER BASE.



(MAXIMUM LOAD)



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES

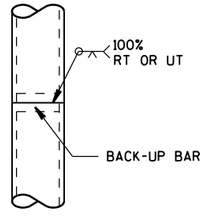


TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE

TYPE 2 POLE MOUNTING CONFIGURATION

FOR MANUFACTURERS USE ONLY

WELD TO BE 100% R.T. OR U.T. TESTED AS PER THE REQUIREMENTS OF AWS D 1.5-88. RECORDS OF COMPLIANCE OF SUCH TESTING SHALL BE FURNISHED TO THE OFFICE OF DESIGN/BRIDGE FOR VERIFICATION AND APPROVAL.



POLE SPLICE DETAIL

POLE MOUNTINGS FOR TRAFFIC SIGNALS TYPE 2

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 600

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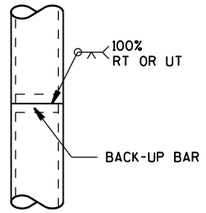
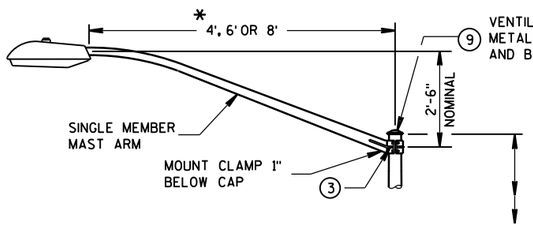
S.D.D. 9 E 1-14a

FOR MANUFACTURERS USE ONLY

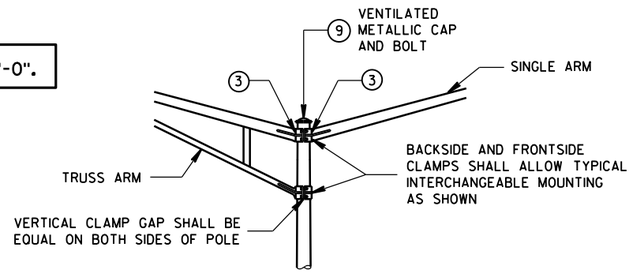
WELD TO BE 100% R.T. OR U.T. TESTED AS PER THE REQUIREMENTS OF AWS D 1.5-88. RECORDS OF COMPLIANCE OF SUCH TESTING SHALL BE FURNISHED TO THE OFFICE OF DESIGN/BRIDGE FOR VERIFICATION AND APPROVAL.

*RISE FOR 4' ARM SHALL BE 2'-0".





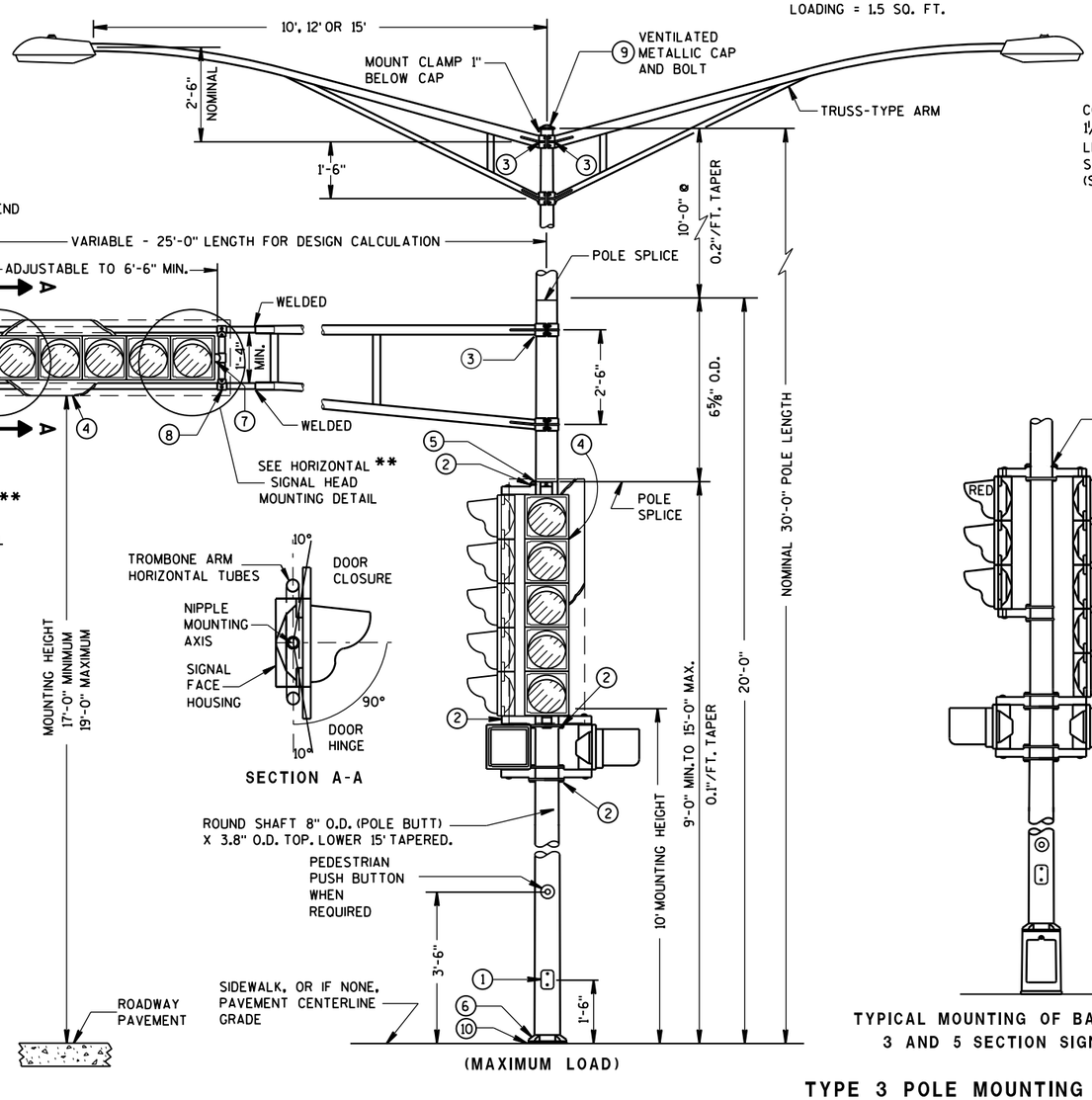
POLE SPLICE DETAIL

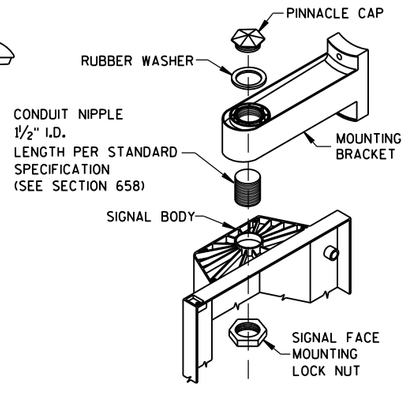


INTERCHANGEABLE MOUNTING DETAIL

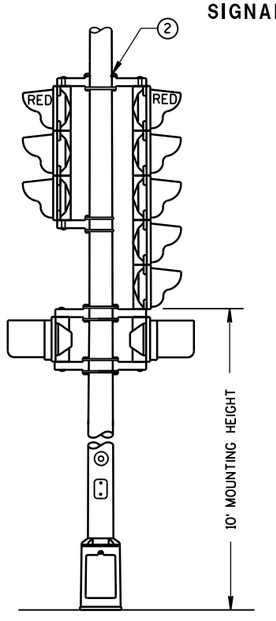
LUMINAIRE

WT. - 50 LBS.
EFFECTIVE PROJECTED AREA FOR WIND LOADING = 1.5 SQ. FT.

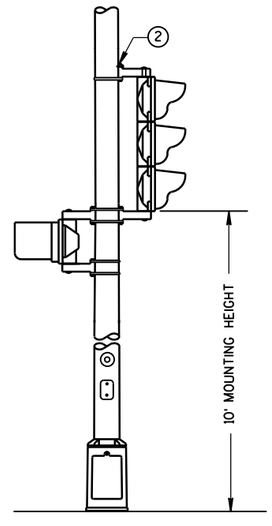




SIGNAL FACE MOUNTING DETAIL (BANDED)



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL TYPE 3 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

A PULL WIRE/ROPE IN ACCORDANCE WITH STANDARD SPECIFICATION 652, SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ¼" X ¾" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.

(2) SIGNAL FACE MOUNTING BRACKETS, MOUNT WITH CAP SCREWS AND BANDING. (SEE STANDARD SPECIFICATIONS - SEC. 658)

(3) GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.

(4) SECURELY MOUNT DULL BLACK POLYCARBONATE BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURER'S RECOMMENDATIONS.

(5) POLE MOUNTED SIGNAL FACES SHALL REQUIRE 1 OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACE.

(6) TYPE 3 POLE CONFIGURATIONS SHALL BE MOUNTED DIRECTLY TO THEIR CONCRETE BASES.

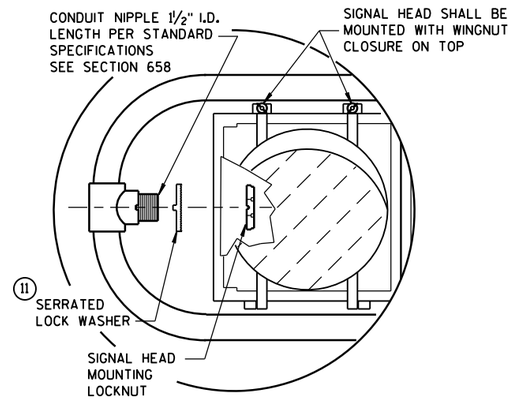
(7) MOUNTING BRACKET NIPPLES FOR THE SIGNAL FACE(S) SHALL BE 2 INCHES IN LENGTH AND 1½ INCHES IN DIAMETER. (SEE STANDARD SPECIFICATION - SECTION 658)

(8) VERTICAL STRUT (ADJUSTABLE). ONE (1) SET SCREW (1/4 " X ¾" -20 TPI, STAINLESS STEEL, HEX HEAD) INTO EACH ARM MEMBER IF STRUT IS THE SLIDING TYPE.

(9) FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(10) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(11) USE SERRATED LOCK WASHERS WITH NOTCHES BETWEEN END TEE AND SIGNAL HEAD.



HORIZONTAL SIGNAL HEAD MOUNTING DETAIL **

** SIGNAL HEAD ATTACHMENT ALSO APPLYS TO MOUNTING AT CROSS BAR

TYPE 3 POLE MOUNTING CONFIGURATION

POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 3 (HEAVY DUTY)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI 601

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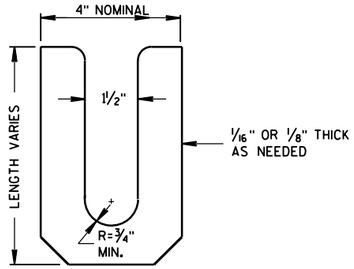
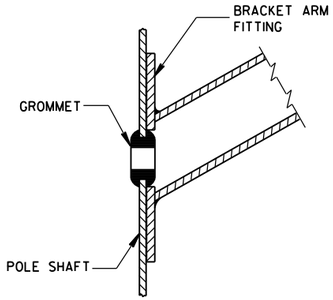
S.D.D. 9 E 1-14b

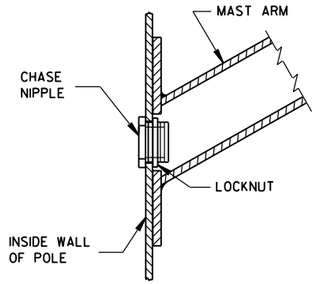


LEVELING SHIM (13)

SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

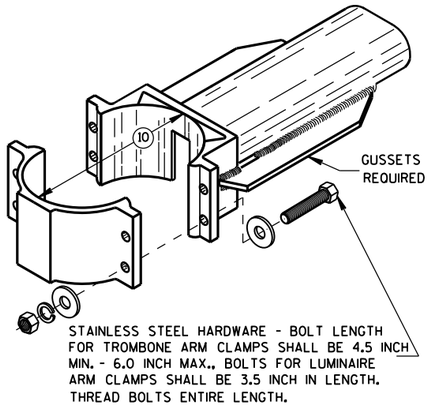
(10) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP.
6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(11) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

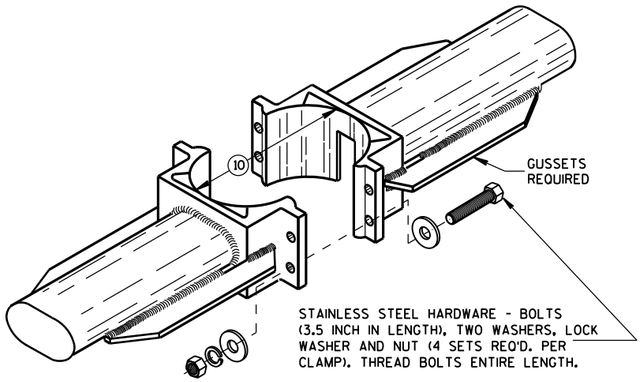
(12) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(13) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

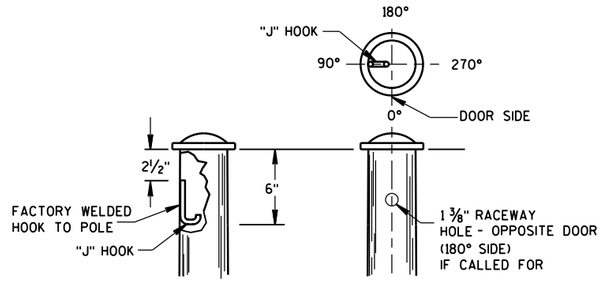
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



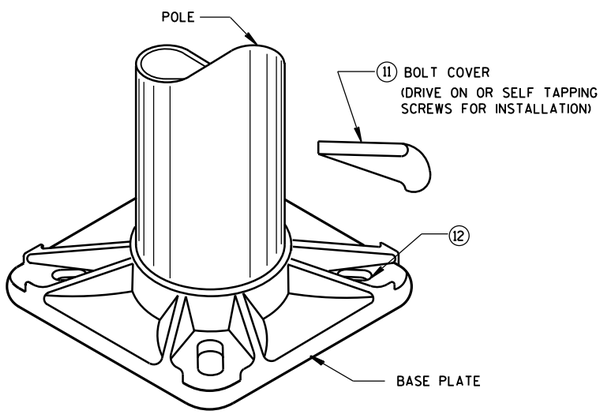
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



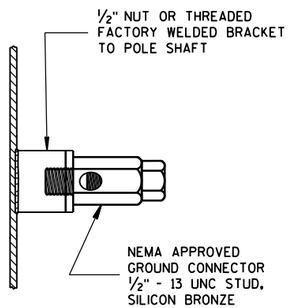
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

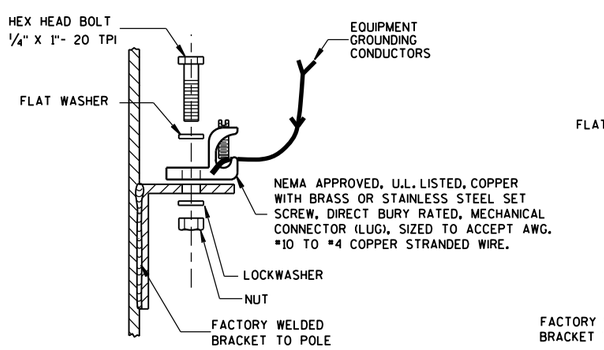


TYPICAL "J" HOOK LOCATION



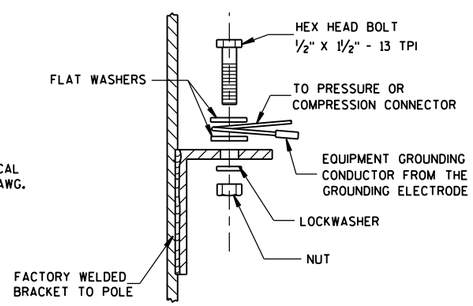
BASE PLATE





TYPICAL GROUNDING CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



HARDWARE DETAILS FOR POLE MOUNTINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Feb. 2015
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL

FHWA

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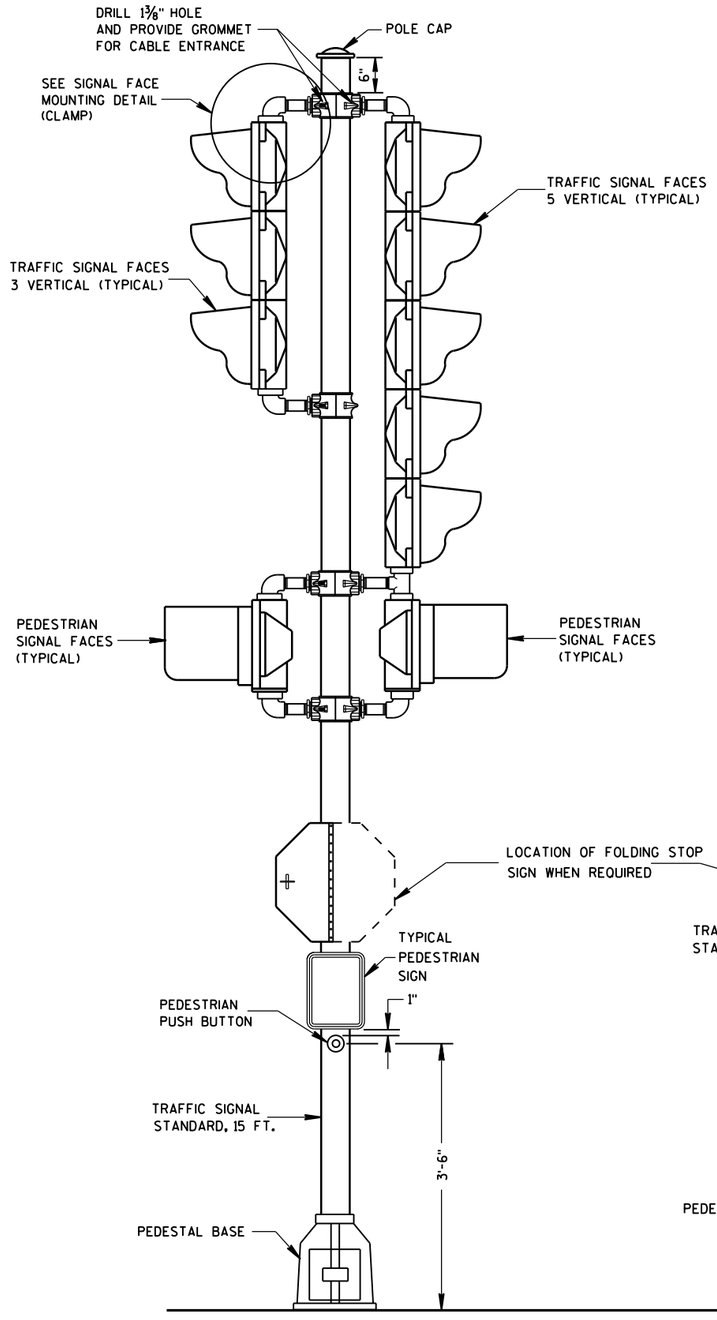
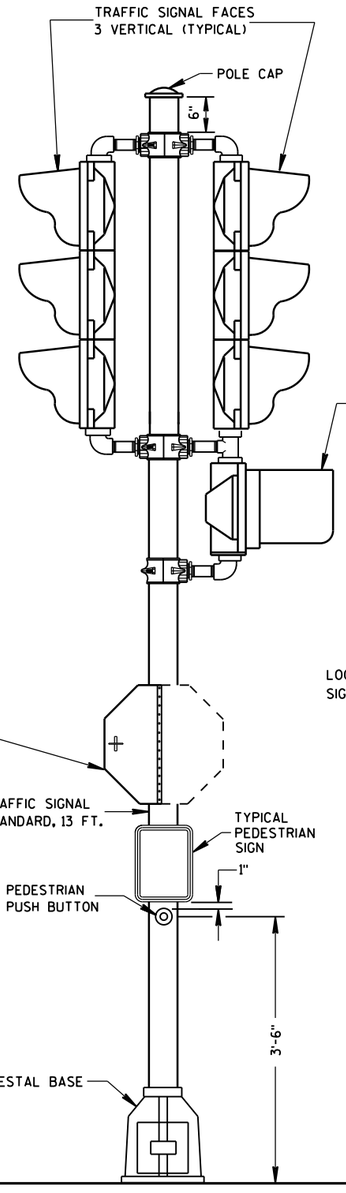
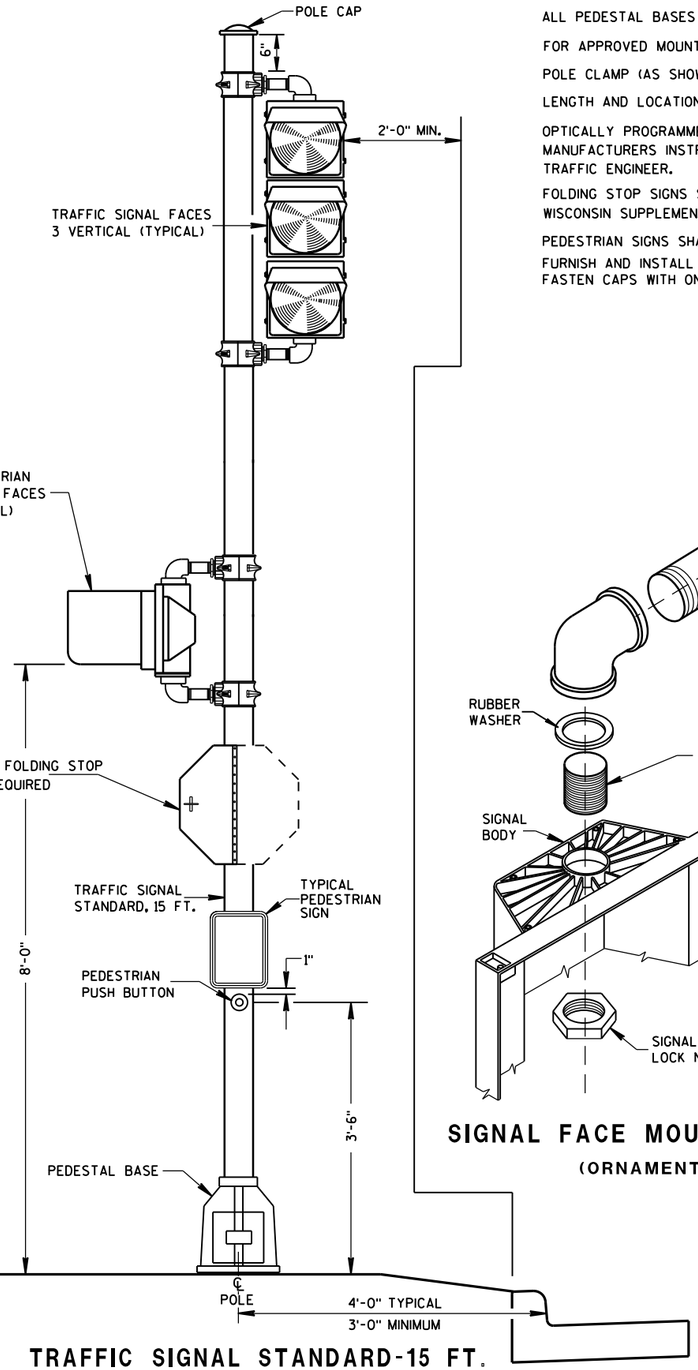


TRAFFIC SIGNAL STANDARD-15 FT.



TRAFFIC SIGNAL STANDARD-13 FT.



TRAFFIC SIGNAL STANDARD-15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLE CLAMP (AS SHOWN) MOUNTING BRACKETS SHALL BE USED.

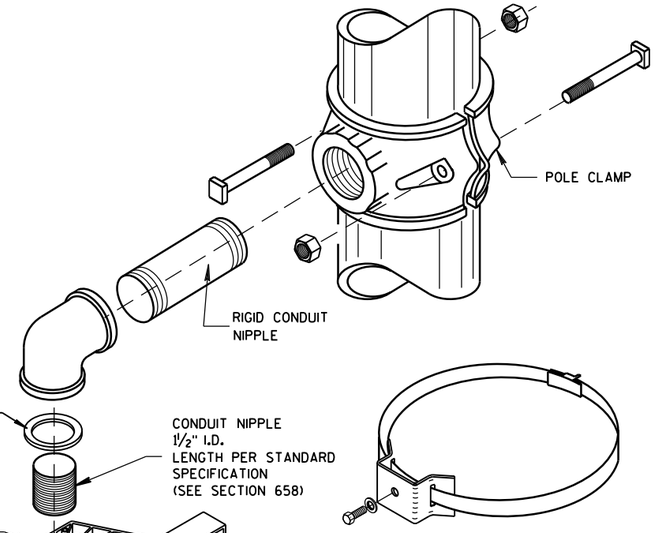
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

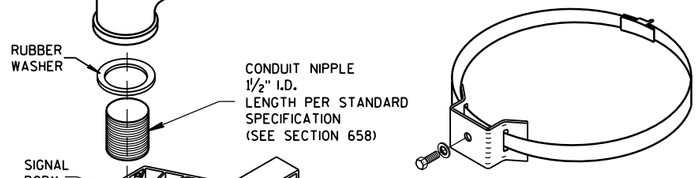
OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN THE PLANS.

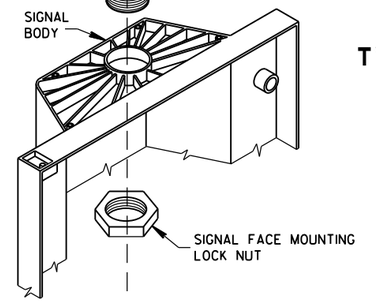
PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) 1/4" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.





TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



SIGNAL FACE MOUNTING DETAIL
(ORNAMENTAL)

TRAFFIC SIGNAL STANDARD
ORNAMENTAL BRACKET MOUNTINGS
TYPICAL FOR 13 FT. OR 15 FT.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/28/2013
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL 603
FHWA

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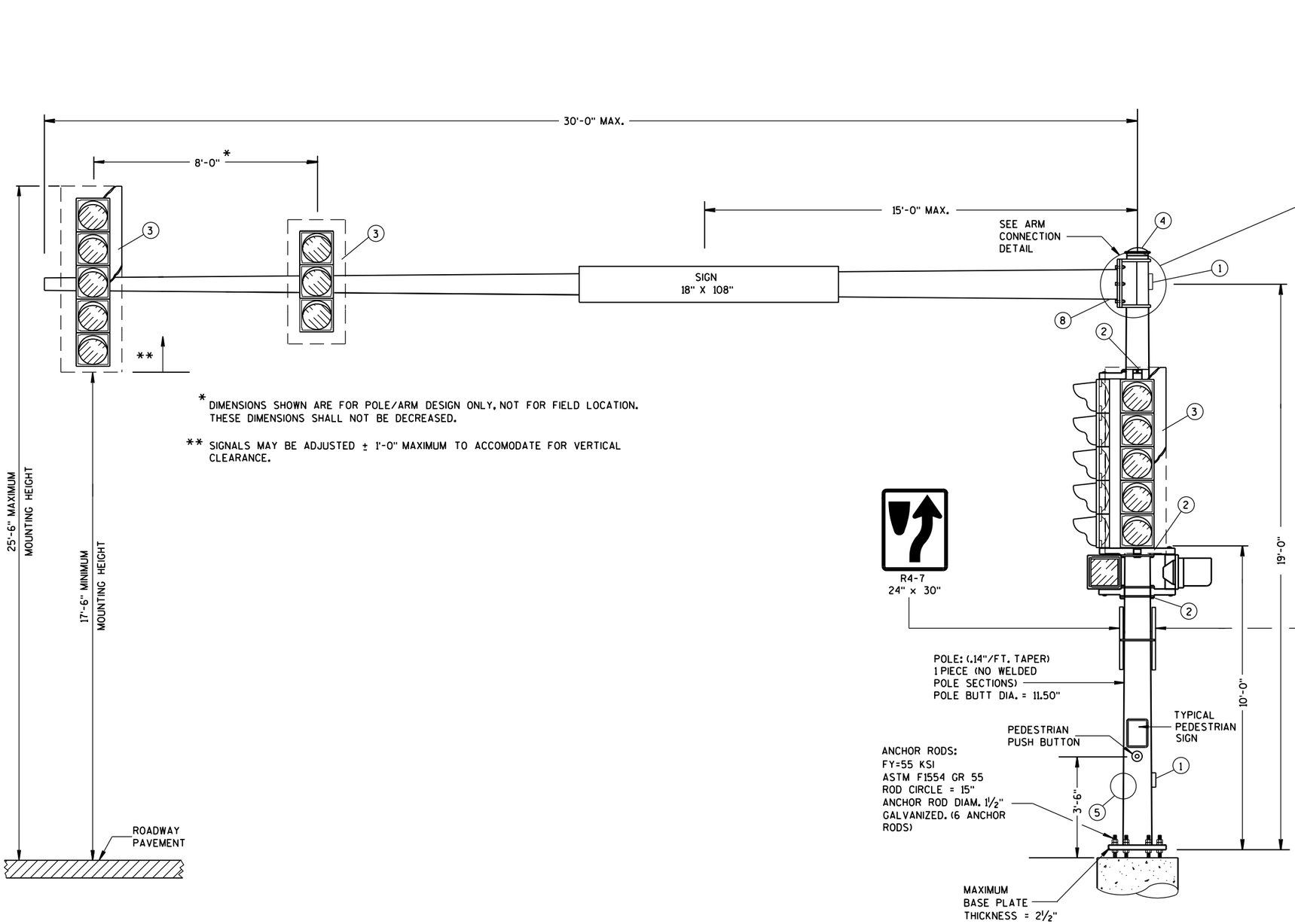
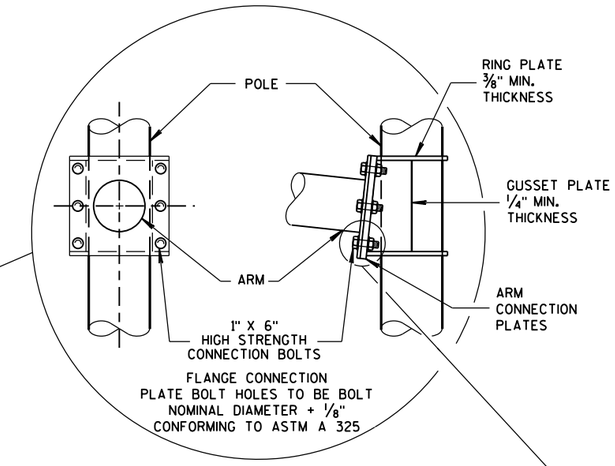
S.D.D. 9 E 5-6

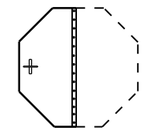


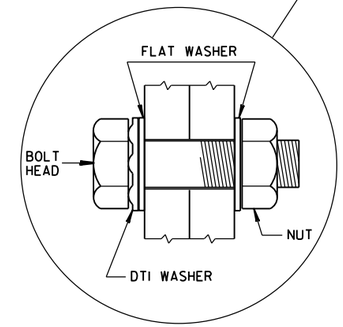
* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.

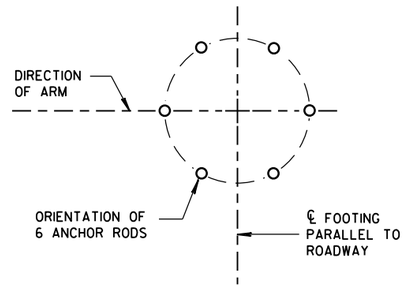


6 BOLT ARM CONNECTION DETAIL





RECOMMENDED BOLT ASSEMBLY DETAIL



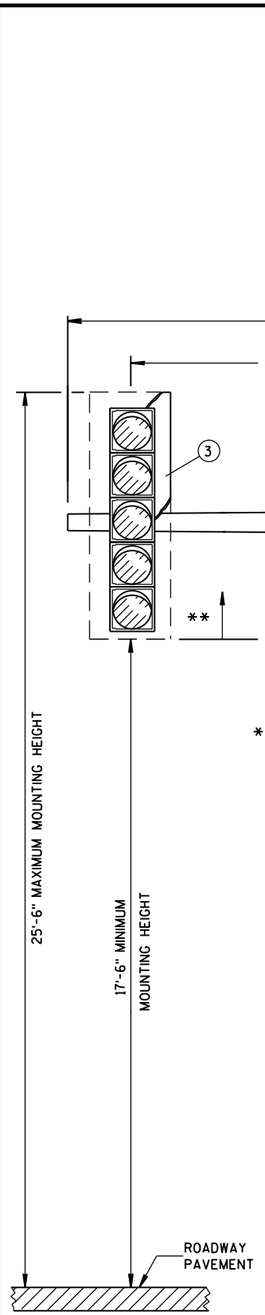
ANCHOR ROD LOCATION

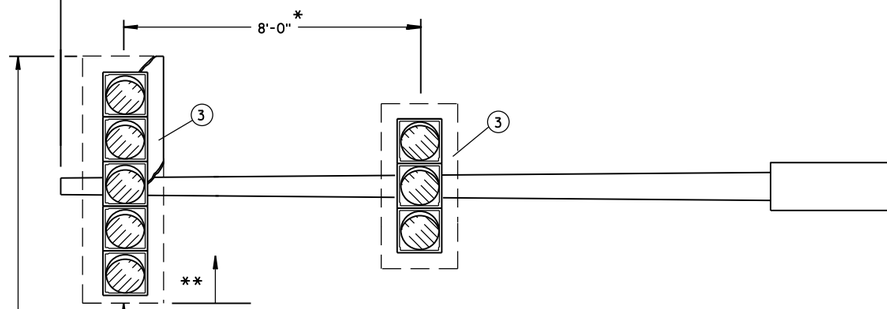
(MAXIMUM LOAD)

TYPE 9 POLE 15'- 30' MONOTUBE ARM

TYPE 9 POLE 15' - 30' MONOTUBE ARM	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May, 2016 DATE FHWA	/S/ Ahmet Demirbilek STATE ELECTRICAL

S.D.D. 9 E 8-8a





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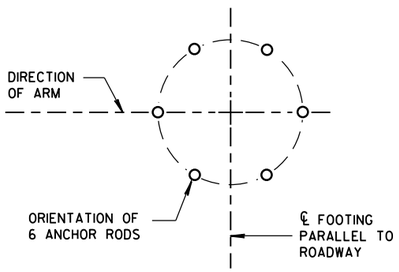
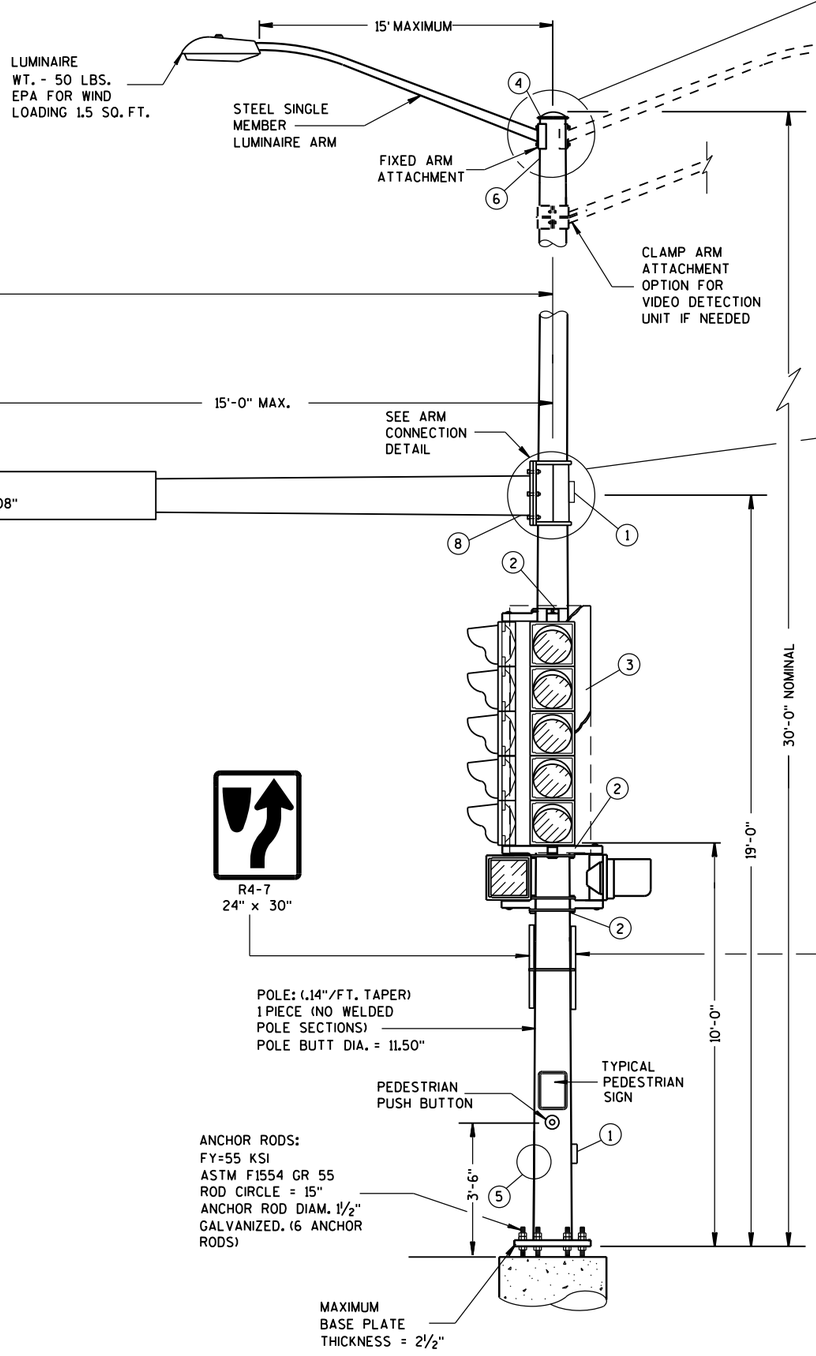
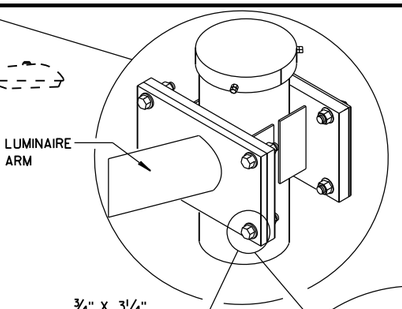
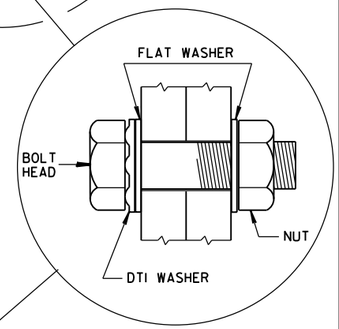
** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.



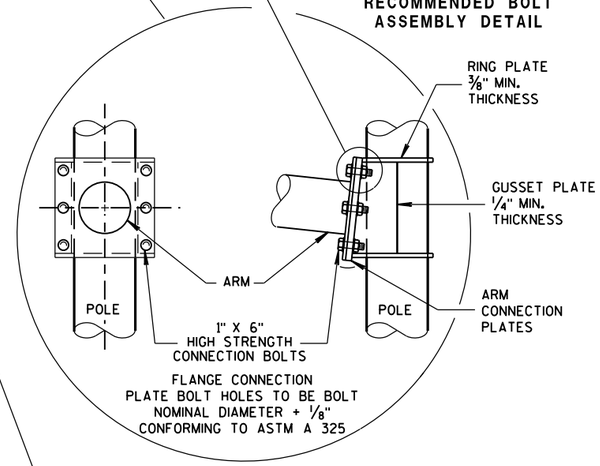
ANCHOR ROD LOCATION



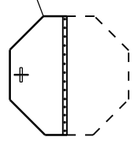




RECOMMENDED BOLT ASSEMBLY DETAIL



6 BOLT ARM CONNECTION DETAIL



(MAXIMUM LOAD)

TYPE 10 POLE
15'- 30' MONOTUBE ARM

TYPE 10 POLE 15' - 30' MONOTUBE ARM	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May, 2016 DATE FHWA	/S/ Ahmet Demirbilek STATE ELECTRICAL 605

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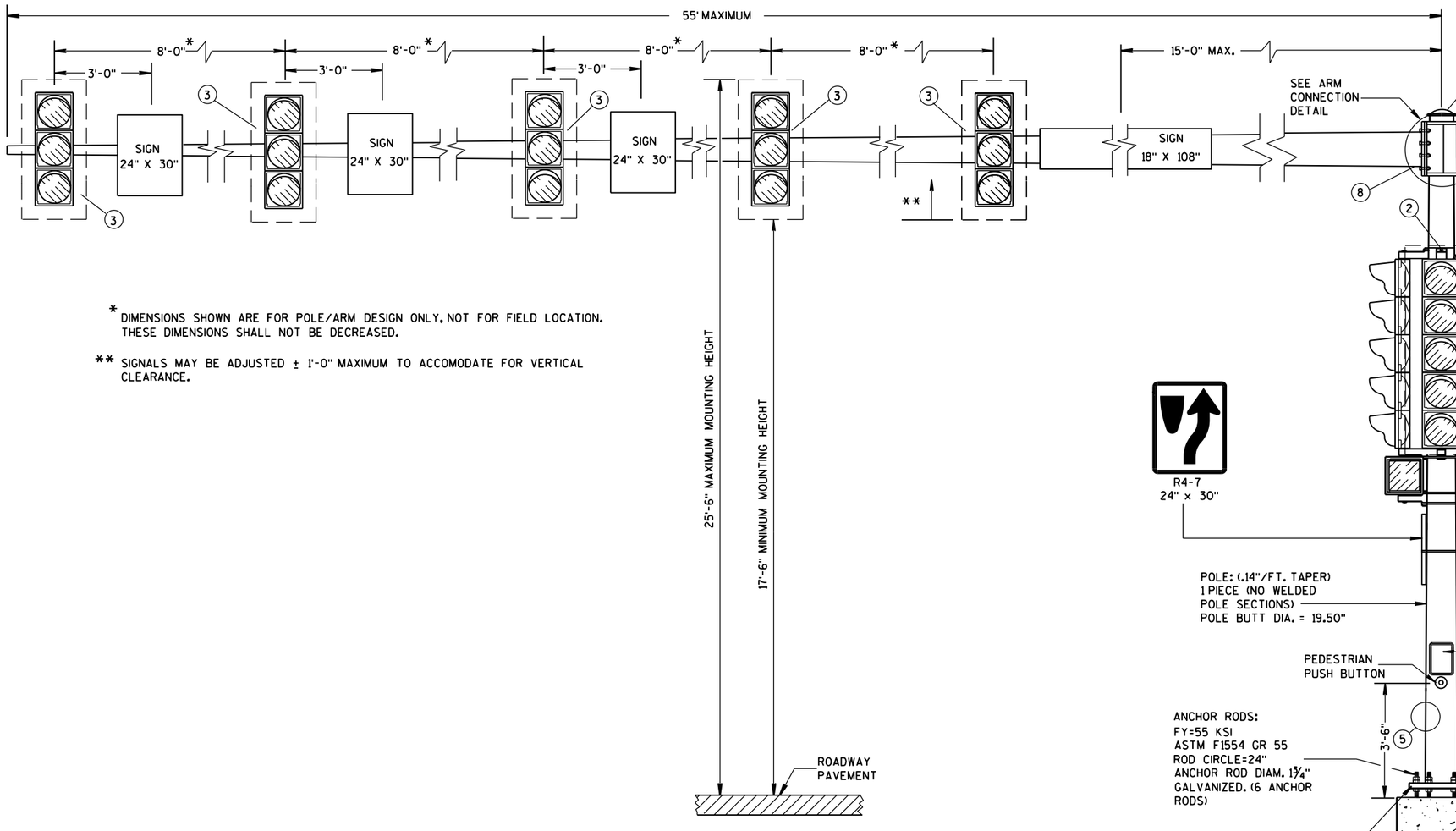

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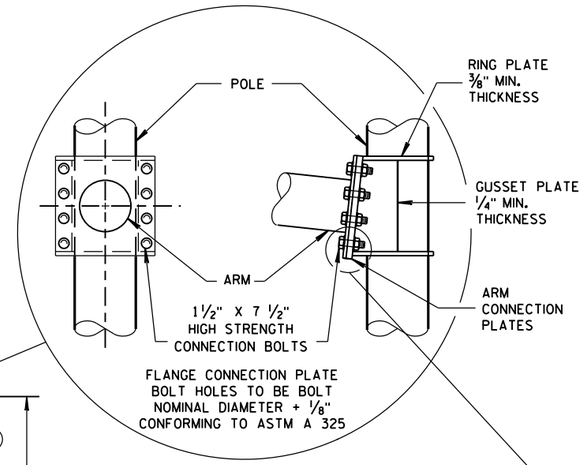
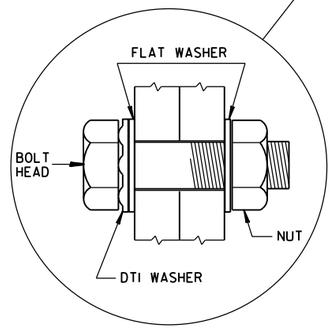
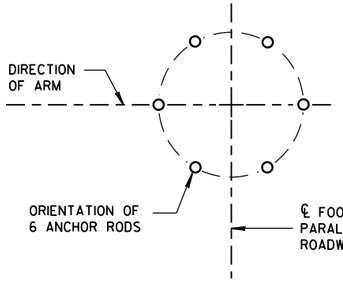


8 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL



ANCHOR ROD LOCATION

(MAXIMUM LOAD)

TYPE 12 POLE 35'- 55' MONOTUBE ARM

TYPE 12 POLE 35' - 55' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May, 2015
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL 606

FHWA

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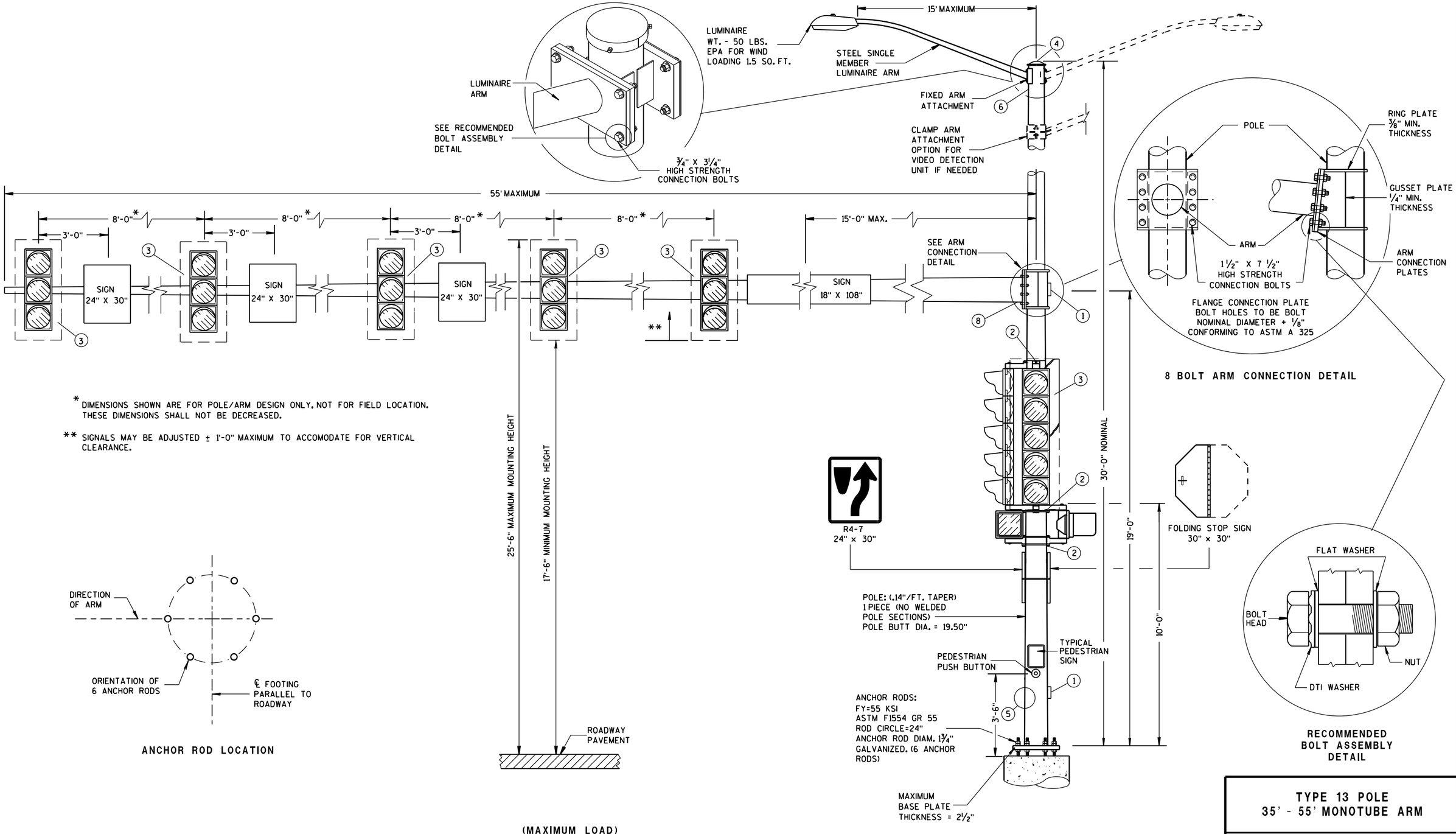

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8 BOLT ARM CONNECTION DETAIL

RECOMMENDED BOLT ASSEMBLY DETAIL

ANCHOR ROD LOCATION

(MAXIMUM LOAD)

TYPE 13 POLE 35'- 55' MONOTUBE ARM

TYPE 13 POLE 35' - 55' MONOTUBE ARM	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2016 DATE	/S/ Ahmet Demirbilek STATE ELECTRICAL 607
FHWA	

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GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15-FOOT TO 30-FOOT.

POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35-FOOT TO 55-FOOT.

MONOTUBE POLE AND ARM SHALL BE GALVANIZED STEEL.

RING-STIFFENED BUILT-UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE (1) PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3 % ± RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

PROVIDE WIREWAY THRU POLE WALL AND ARM CONNECTION PLATES. PROVIDE ROUND, SMOOTH INSIDE SURFACE.

MANUFACTURER'S SUBMITTED POLE DESIGNS AND DRAWINGS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED AS BEING IN COMPLIANCE WITH THE AASHTO 2013 6TH EDITION AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR TRAFFIC AND LIGHTING STRUCTURES AND AS FOLLOWS:

- CATEGORY III FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 AND TYPE 10 STRUCTURES.
- CATEGORY II FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 12 AND TYPE 13 STRUCTURES.
- 90 MPH (3-SECOND GUST) WIND SPEED AND A 50 YEAR DESIGN LIFE.

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH ¾" S.S. BANDING AROUND THE LEVELING NUTS.

INDENT PRINT (NOMINAL ½" HIGH) THE POLE LENGTH AND FIRST TWO LETTERS OF THE MANUFACTURERS NAME ON TWO SIDES OF THE BASE PLATE 180 DEGREES APART, BEFORE GALVANIZING. THE ARM SHALL BE IDENTIFIED WITH THE SAME INFORMATION BY INDENT PRINT.

SIGNAL FACE SHALL BE MOUNTED 6 INCHES (NOMINAL) FROM THE END OF THE MONOTUBE ARM OR AS SHOWN ON THE PLAN CONSTRUCTION DETAIL OR AS DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL. MOUNT ALL LIKE HEADS AT SAME ELEVATION.

SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

(1) DESIGN FOR MAXIMUM ALLOWABLE HANDHOLE WITH COVER ASSEMBLY WITH TWO ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

(2) SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING, (SEE SPECIFICATIONS SEC. 658).

(3) SECURELY MOUNT BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS.

(4) THE TOP OF THE POLE SHAFT AND THE END OF THE MONOTUBE ARM SHALL BE EQUIPPED WITH A REMOVABLE, VENTILATED CAP HELD SECURELY IN PLACE WITH SET SCREWS.

(5) FACTORY-WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HANDHOLE, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM). PROVIDE HOLE IN BRACKET FOR ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.

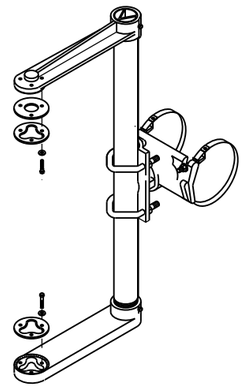
(6) FACTORY-WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

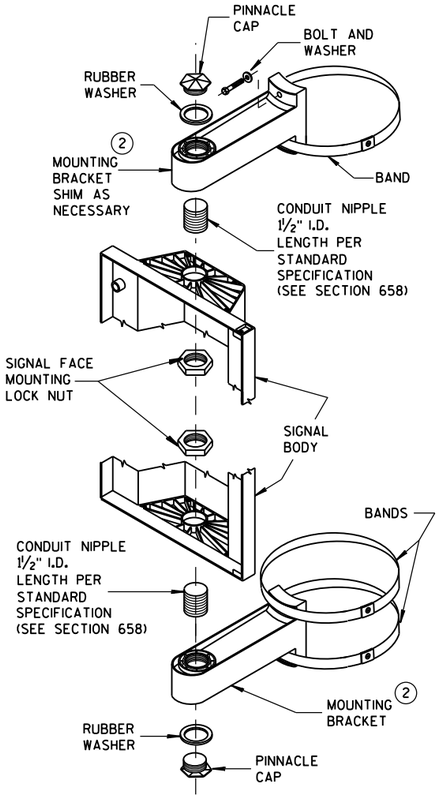
MOUNTING HEIGHT SHALL BE 6'-0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

(8) FACTORY DRILLED ½" DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE.

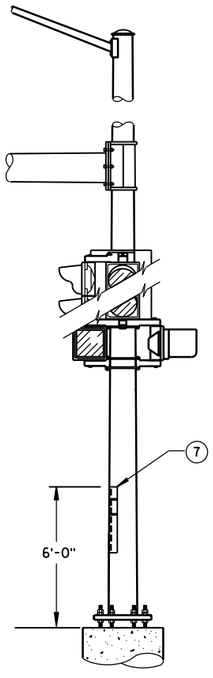


SIGNAL FACE MOUNTING BRACKET
DETAIL FOR MONOTUBE ARM

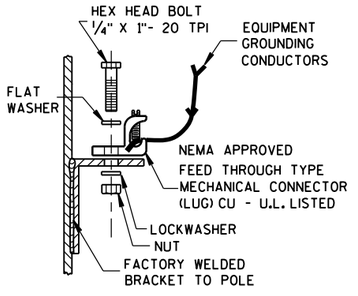
(MOUNT PER MANUFACTURER'S RECOMMENDATION)



SIGNAL FACE
VERTICAL MOUNTING DETAIL

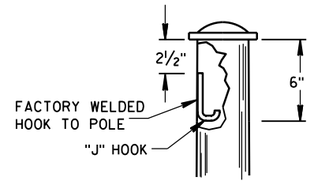


STRUCTURAL IDENTIFICATION
PLAQUE PLACEMENT



TYPICAL GROUNDING CONNECTIONS (5)

NUT, BOLT AND WASHERS SHALL
BE STAINLESS STEEL



"J" HOOK WIRE SUPPORT (6)

GENERAL NOTES AND HARDWARE DETAILS FOR TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2016
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL 608

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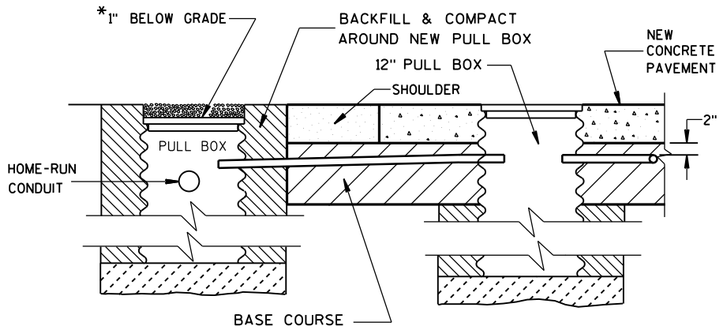


SECTION A-A

NO CURB & GUTTER

LOOP DETECTOR INSTALLATION DETAILS

*RECESS PULL BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

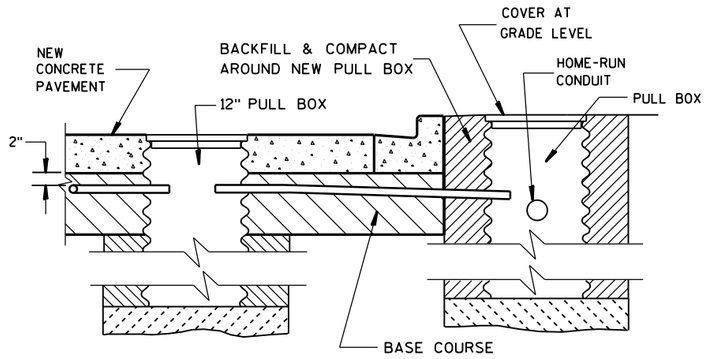
THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, THROUGH THE LOOP DUCT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE, NON-SPLICED, CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT, CONDULET AND PULL BOX SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE THE NEW CONCRETE PAVEMENT IS PLACED.

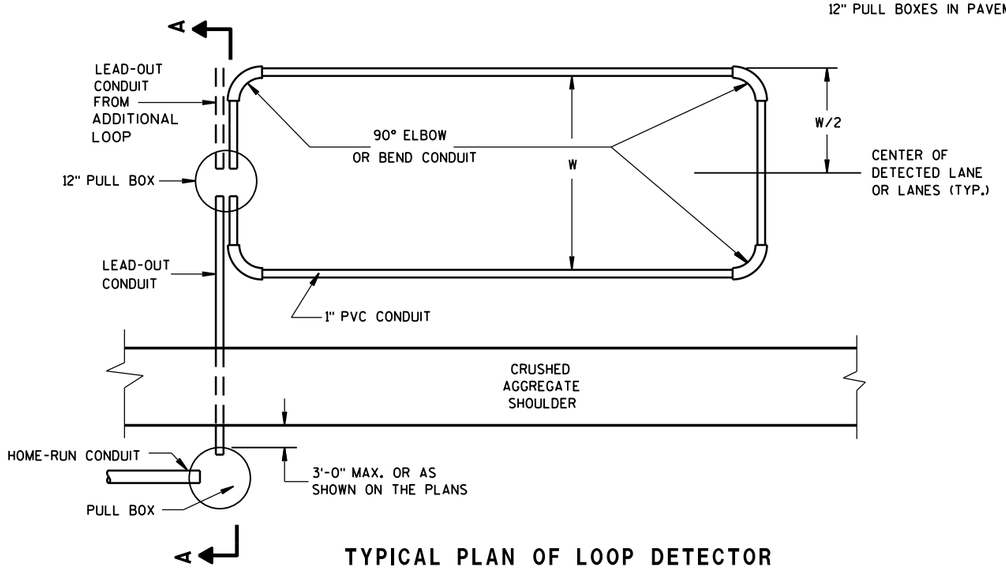
12" PULL BOXES IN PAVEMENT SHALL BE CORRUGATED STEEL ONLY.



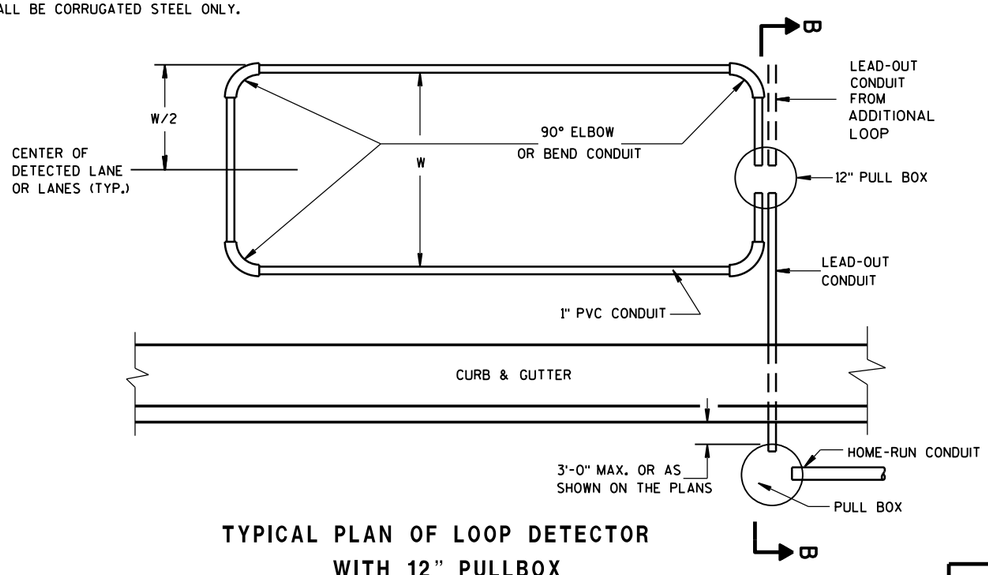
SECTION B-B

CURB & GUTTER

LOOP DETECTOR INSTALLATION DETAILS



TYPICAL PLAN OF LOOP DETECTOR WITH 12" PULLBOX



TYPICAL PLAN OF LOOP DETECTOR WITH 12" PULLBOX

LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW CONCRETE PAVEMENT)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2014 — DATE

/S/ Ahmet Demirbilek — STATE ELECTRICAL

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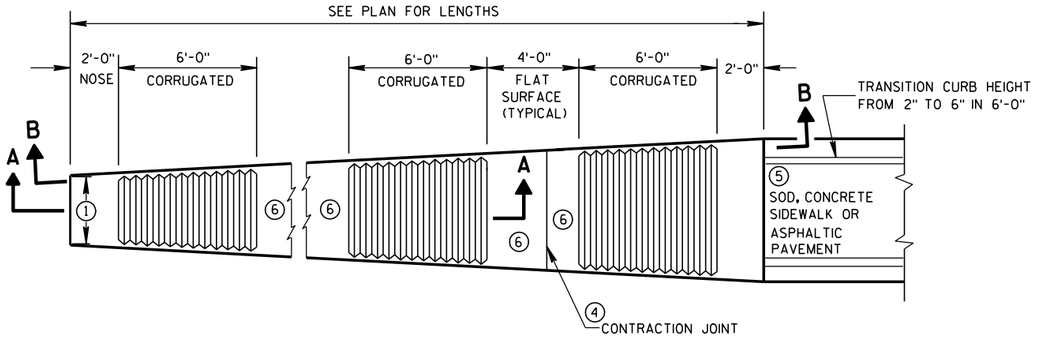
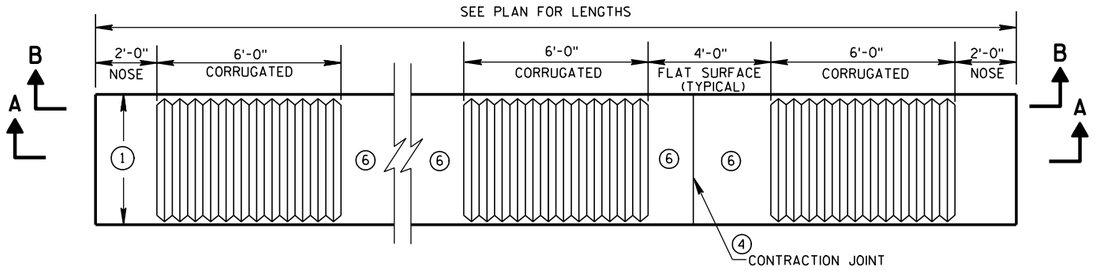


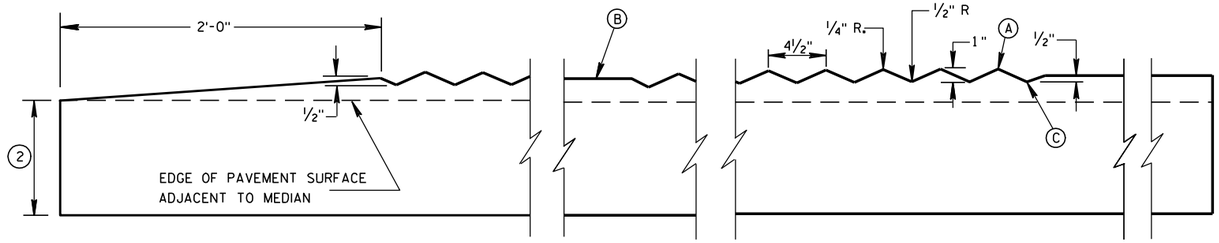
PLAN VIEW

VARIABLE WIDTH CONCRETE CORRUGATED MEDIAN



PLAN VIEW

UNIFORM WIDTH CONCRETE CORRUGATED MEDIAN



SECTION A-A

LONGITUDINAL SECTION

GENERAL NOTES

(1) SEE PLANS FOR CONSTANT OR VARIABLE WIDTH.

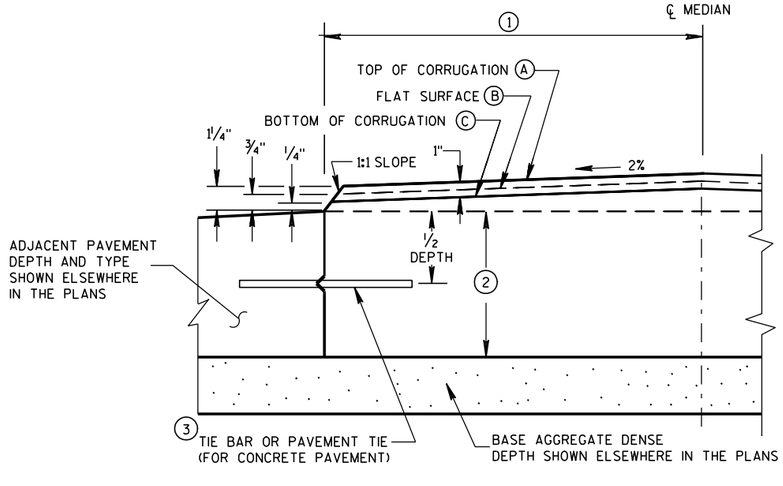
(2) THE DEPTH OF THE CONCRETE CORRUGATED MEDIAN SHALL BE 9-INCHES UNLESS SHOWN OTHERWISE IN THE PLAN.
ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN IN THE PLAN. TYPICAL OPTIONS ARE:
(1) NEW OR EXISTING CONCRETE PAVEMENT.
(2) ASPHALTIC CONCRETE OVER NEW OR EXISTING CONCRETE BASE COURSE, OR PAVEMENT.
(3) ASPHALTIC PAVEMENT OVER BASE AGGREGATE DENSE.

(3) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.
INSTALL TIE BARS TO MAINTAIN A MINIMUM OF 3-INCHES OF COVER BETWEEN THE TIE BAR AND THE CONCRETE SURFACE (BOTTOM AND TOP).
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE PAVEMENT OR CONCRETE BASE COURSE, PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(4) CONCRETE CORRUGATED MEDIAN CONTRACTION JOINTS SHALL BE CONSTRUCTED TO MATCH THE JOINTS IN ADJACENT CONCRETE PAVEMENT. WHERE ADJACENT PAVEMENT IS ASPHALT WITH BASE AGGREGATE DENSE. TRANSVERSE CONTRACTION JOINTS SHALL BE PROVIDED AT 20 FOOT INTERVALS.

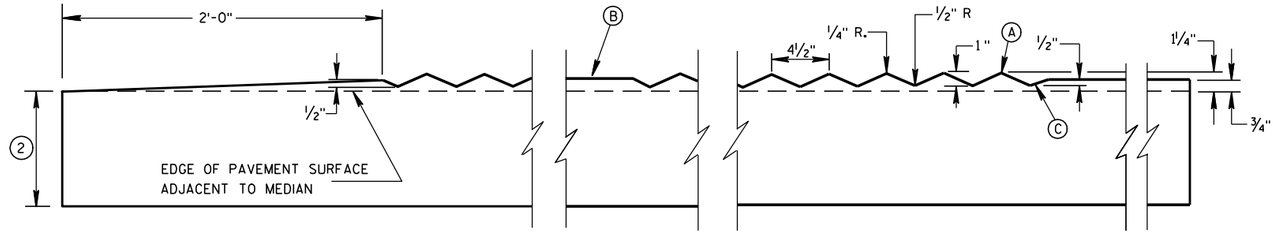
(5) SURFACE TYPE AND DETAILS ARE DEFINED ELSEWHERE IN THE PLAN.

(6) YELLOW MARKING ON FLAT SURFACE WHEN MEDIAN SEPARATES OPPOSING TRAFFIC.



HALF CROSS SECTION

(2) CONCRETE CORRUGATED MEDIAN AND ADJACENT PAVEMENT



SECTION B-B

LONGITUDINAL SECTION

CONCRETE CORRUGATED MEDIAN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/17/07
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

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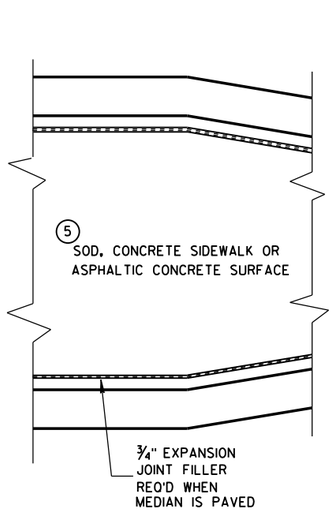
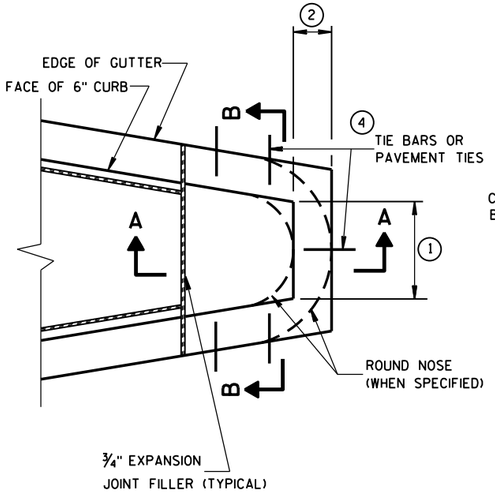
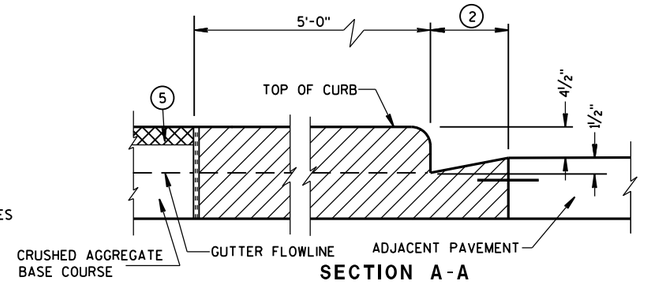
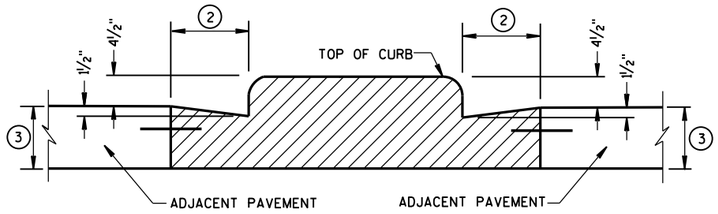
S.D.D. 11 B 1-5







SECTION A-A



SECTION B-B

CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

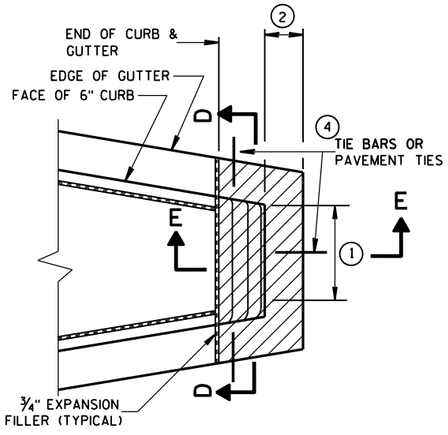
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

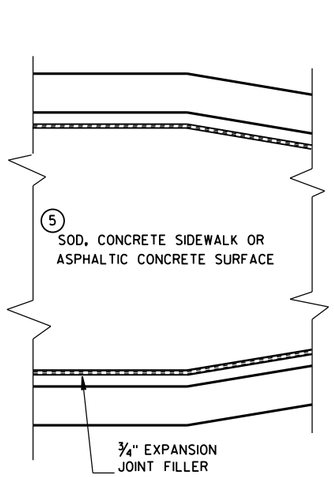
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

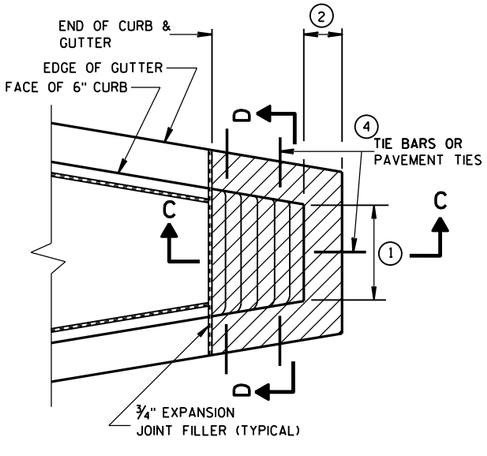
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

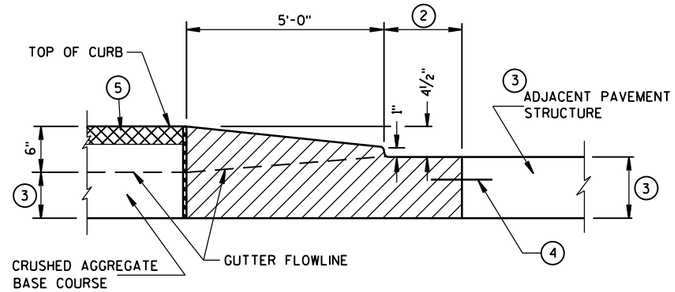
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



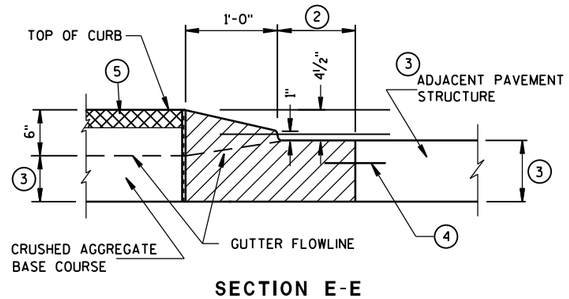




CONCRETE MEDIAN SLOPED NOSE TYPE 1

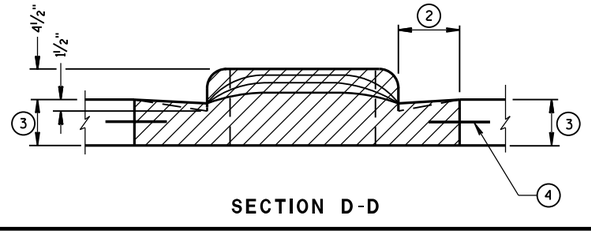


SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/8/2006
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER

FHWA

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S.D.D. 11 B 2-2

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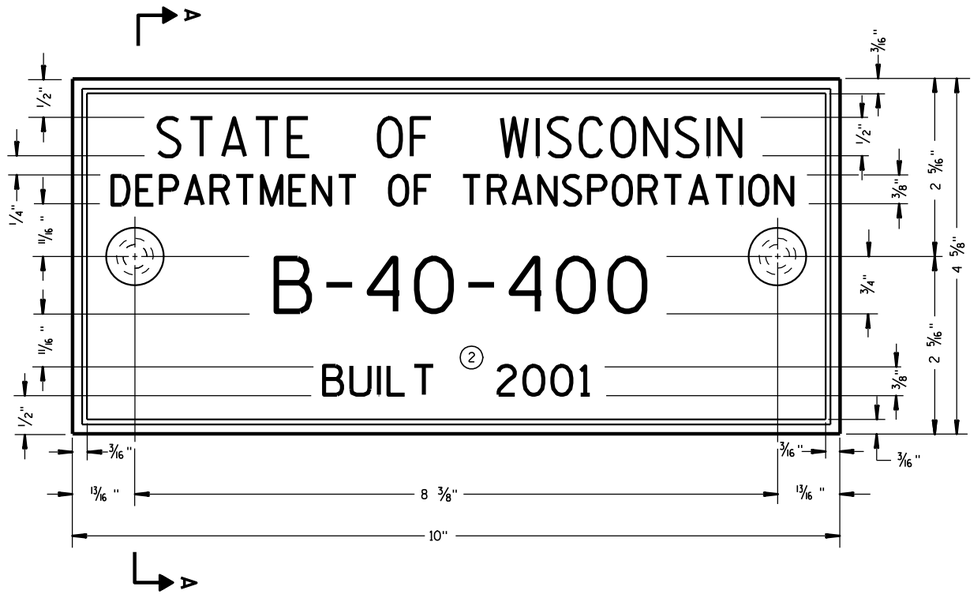
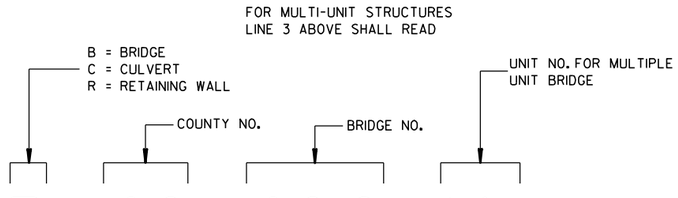
S.D.D. 11 B 2-2



TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES

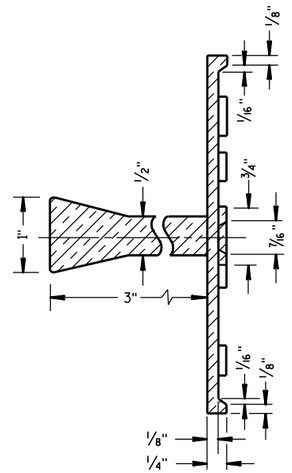
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

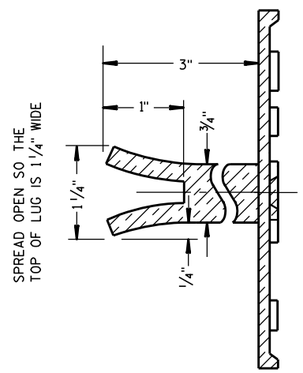
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

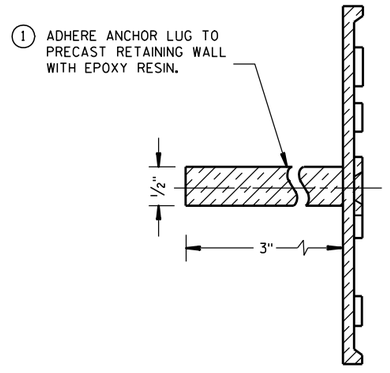
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/26/10 DATE — /S/ Scot Beck — CHIEF STRUCTURAL DEVELOPMENT ENGINEER

FHWA

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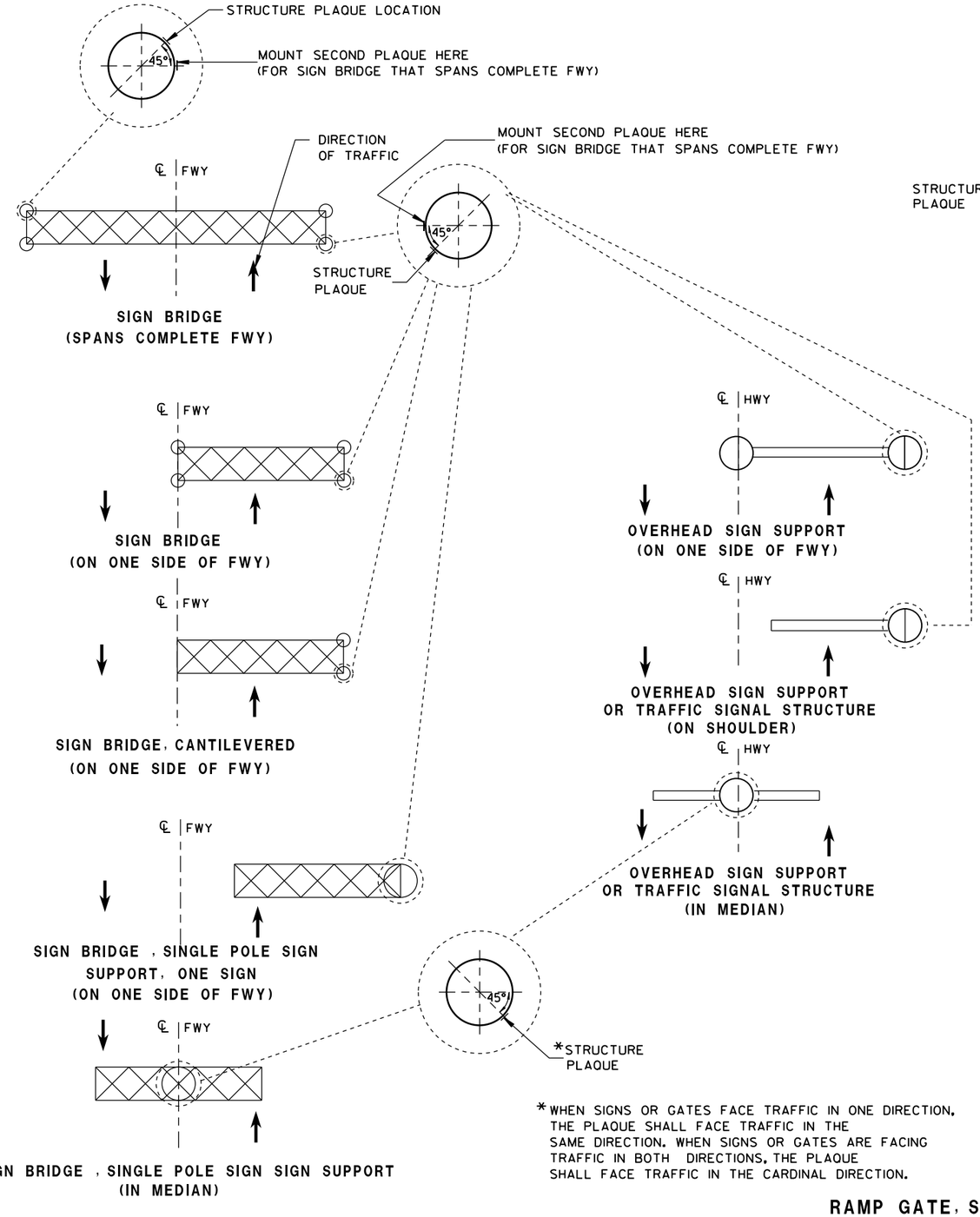
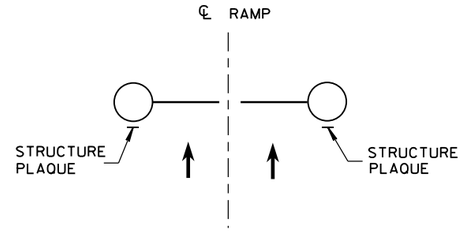
S.D.D. 12 A 3-10

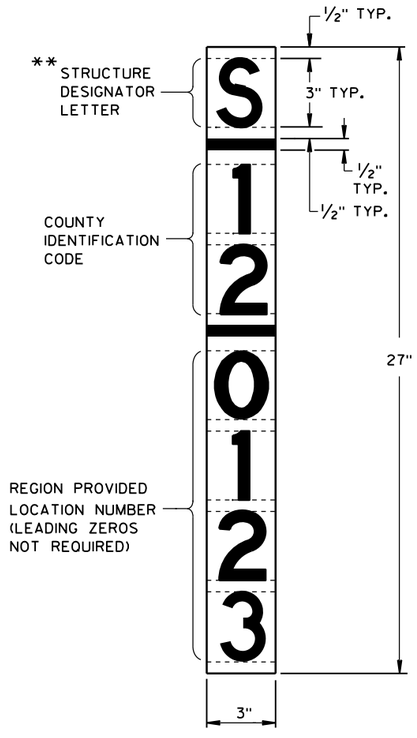


LOCATION OF RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT & TRAFFIC SIGNAL STRUCTURE PLAQUES

* WHEN SIGNS OR GATES FACE TRAFFIC IN ONE DIRECTION, THE PLAQUE SHALL FACE TRAFFIC IN THE SAME DIRECTION. WHEN SIGNS OR GATES ARE FACING TRAFFIC IN BOTH DIRECTIONS, THE PLAQUE SHALL FACE TRAFFIC IN THE CARDINAL DIRECTION.



RAMP GATE
(ACROSS FWY ON-RAMP)



** LETTER "G" UTILIZED FOR RAMP GATES. LETTER "S" UTILIZED FOR SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, AND TRAFFIC SIGNALS.

RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT AND TRAFFIC SIGNAL STRUCTURE PLAQUE FOR SIGN BRIDGES AND OVERHEAD SIGN SUPPORT WHICH ARE NOT STRUCTURE MOUNTED

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN IN THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

IF THE PROPOSED SIGN BRIDGE OR OVERHEAD SIGN SUPPORT IS REPLACING AN EXISTING SIGN BRIDGE OR OVERHEAD SIGN SUPPORT, A NEW IDENTIFICATION PLAQUE WILL BE REQUIRED.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

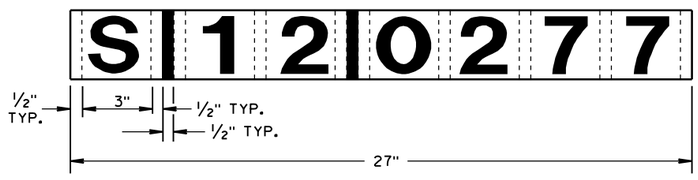
FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, ½" WIDE, SELF-ADHESIVE

CHARACTERS:- BLACK, SELF ADHESIVE, SERIES "D", SIZE AS SHOWN.

FOR SIGN BRIDGES, STRUCTURE MOUNTED, THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE DRAWING. THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY TO THE BACK OF THE SIGN, BETWEEN THE ALUMINUM EXTRUSIONS, NEAR THE TOP LEFT HAND CORNER OF THE SIGN. THE BASE MATERIAL SHALL BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE ALUMINUM SURFACE. PRIOR TO ADHERING THE MATERIAL, THE ALUMINUM SURFACE SHALL BE SMOOTH, CLEAN AND DRY.

WHERE SIGN BRIDGE ILLUMINATION IS PROVIDED, THE STRUCTURE MUST ALSO HAVE A SIGN BRIDGE CIRCUIT PLAQUE AS SHOWN IN THE ELECTRICAL DETAILS.



IDENTIFICATION PLAQUE FOR SIGN BRIDGE, STRUCTURE MOUNTED

STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, & TRAFFIC SIGNALS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/4/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

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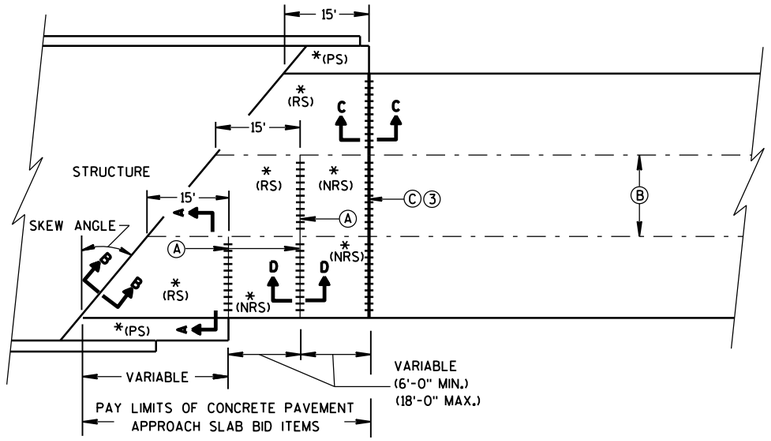
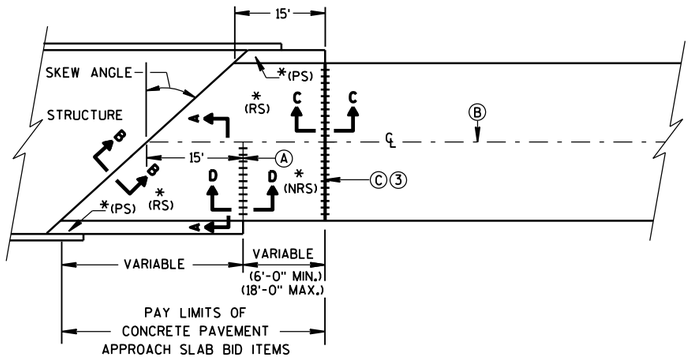
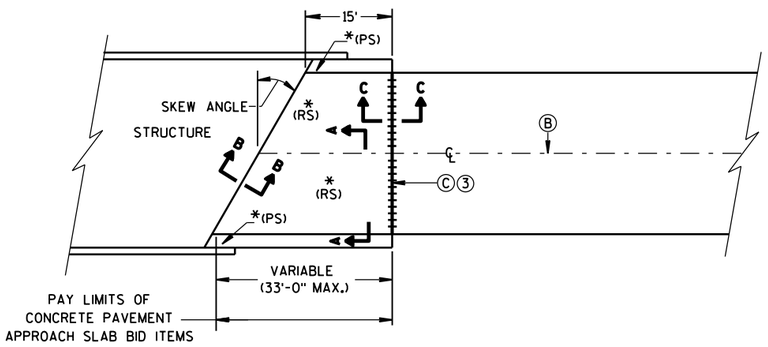
S.D.D. 12 A 4-3



SKEWED APPROACH
(PAVEMENT MORE THAN 2 LANES)



SKEWS >20°
(PAVEMENT WIDTH ≤30')



SKEWS ≤20°
(PAVEMENT WIDTH ≤30')

APPROACH SLAB AND ADJACENT PAVEMENT

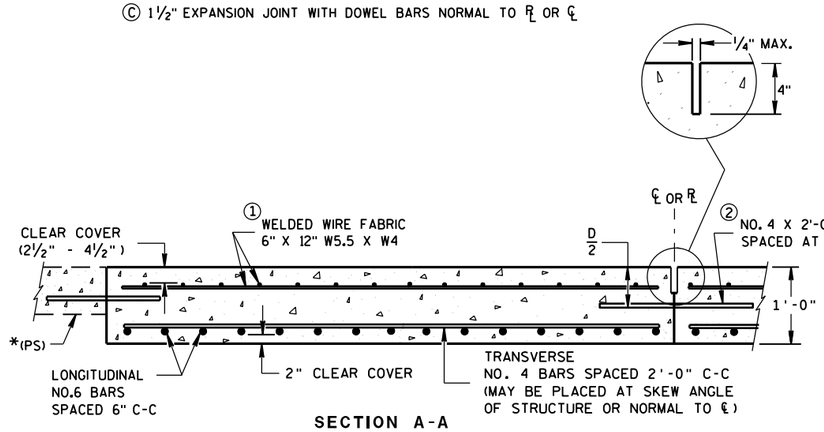
*(RS) = REINFORCED CONCRETE SLAB
*(PS) = PAVED CONCRETE SHOULDER OR CONCRETE DRAINAGE SLAB
(SEE DETAILS ELSEWHERE IN THE PLAN)
*(NRS) = NON-REINFORCED CONCRETE SLAB

***STANDARD DOWEL BAR DIAMETER
(SEE SDD 13C11, & SDD 13C13)

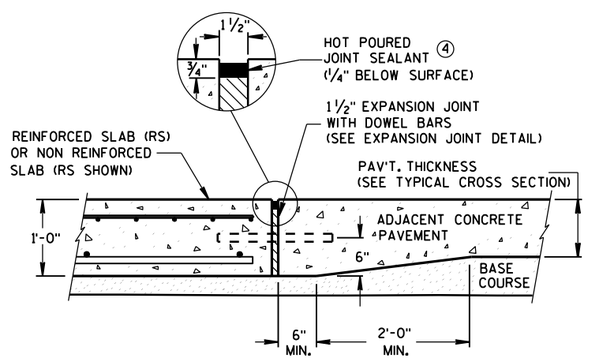
Ⓐ STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℄

Ⓑ STANDARD LONGITUDINAL JOINT WITH TIE BARS.

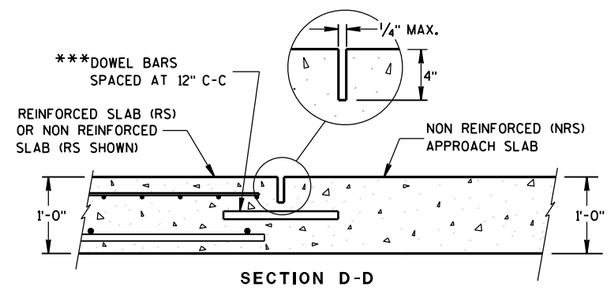
Ⓒ 1½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℄



SECTION A-A
REINFORCEMENT POSITIONING DETAIL



SECTION C-C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT



SECTION D-D
CONTRACTION JOINT

GENERAL NOTES

THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

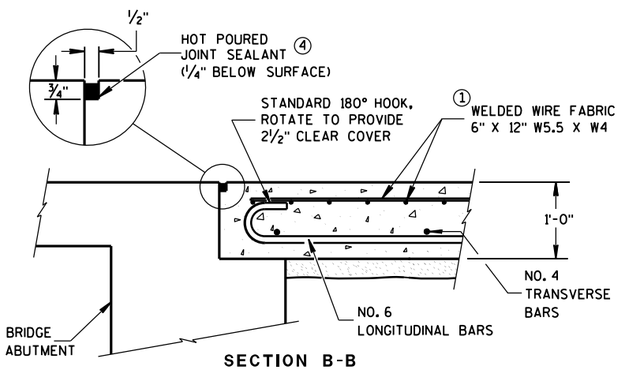
① THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2'-0" C-C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.

② THE CONTRACTOR MAY OMIT TIE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.

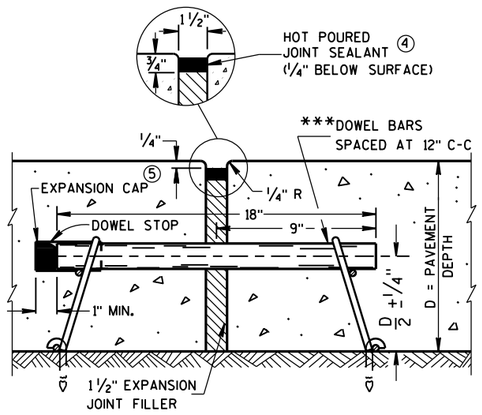
③ DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.

④ USE A JOINT SEALANT MEETING THE REQUIREMENTS OF ASTM D6690.

⑤ PLACE EXPANSION CAP ON THE END OF THE DOWEL THAT IS NOT TACK WELDED TO THE BASKET. DO NOT FORCE DOWEL BAR PAST THE DOWEL STOP.



SECTION B-B
BEND DETAIL
BOTTOM REINFORCEMENT



EXPANSION JOINT DETAIL

CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015
DATE
/S/ Peter Kemp, P.E.
PAVEMENT SUPER
FHWA

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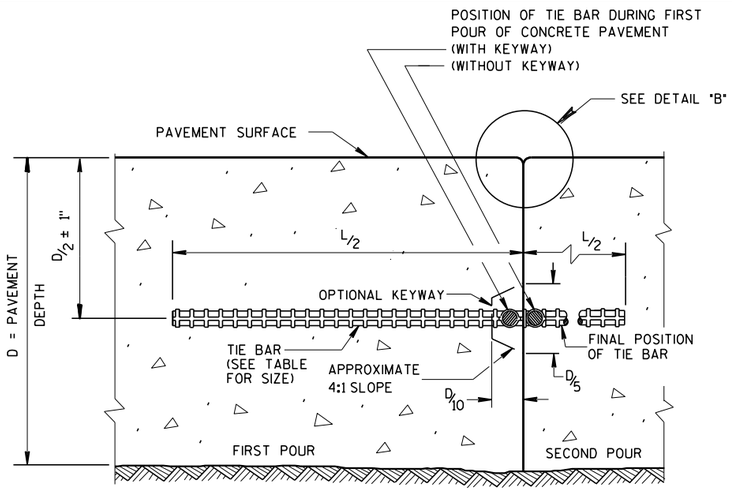
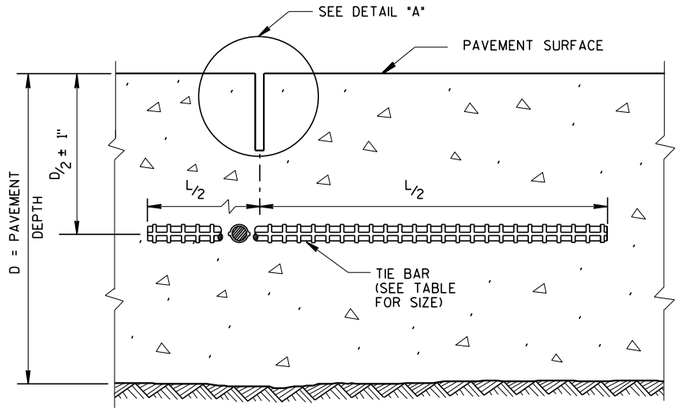
S.D.D. 13 B 2-8a



CONSTRUCTION JOINT



SAWED JOINT

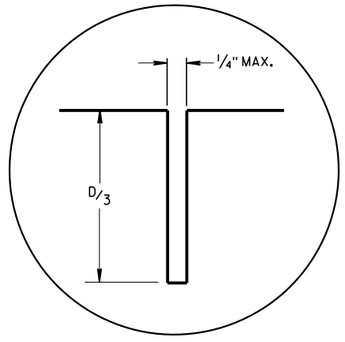
GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

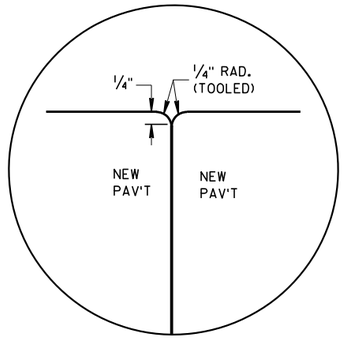
CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.



DETAIL "A"



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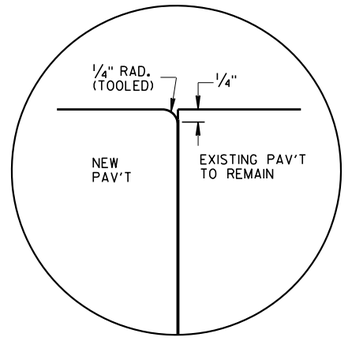

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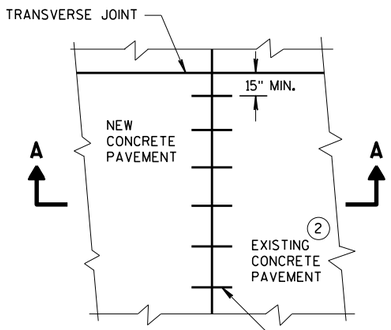
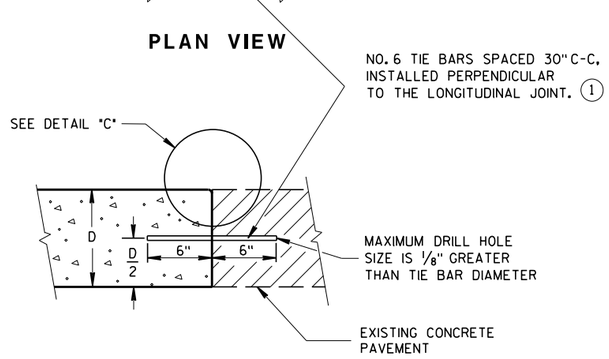


PLAN VIEW



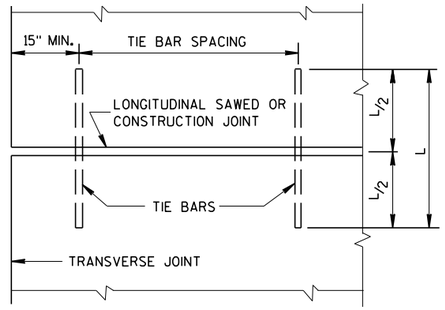
SECTION A-A
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Peter Kemp PE — PAVEMENT SUPE
FHWA

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S.D.D. 13 C 1-19

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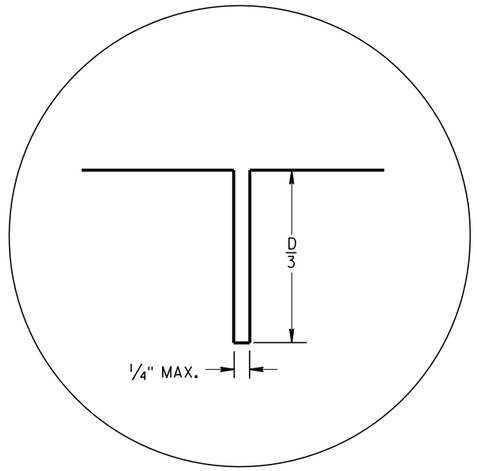
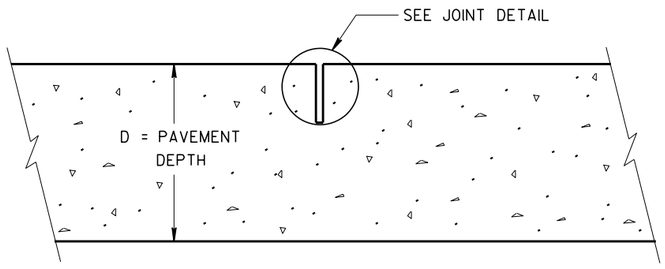
S.D.D. 13 C 1-19



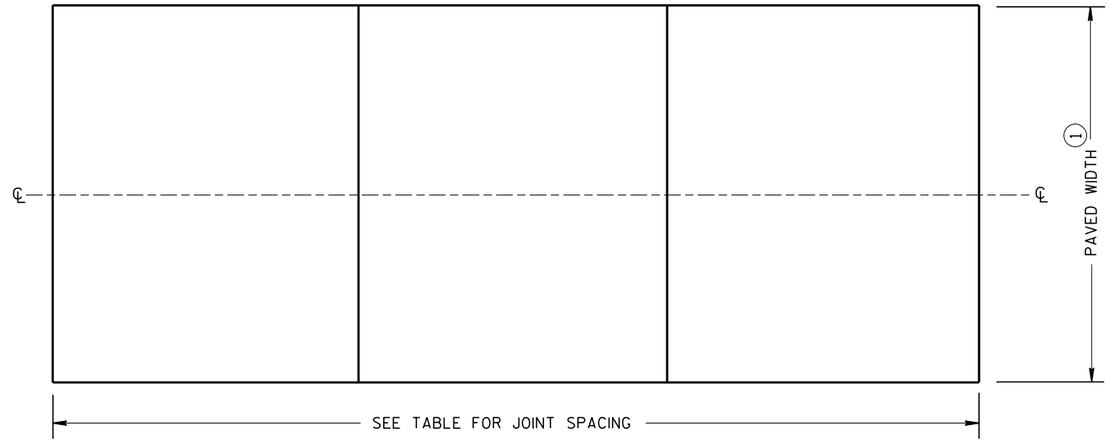
JOINT DETAIL



CONTRACTION JOINT

PAVEMENT DEPTH AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 1/2"	12'
7", 7 1/2"	14'
8" & ABOVE	15'



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE.

LOCATE AND ORIENT CONTRACTION JOINTS THROUGH INTERSECTIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

CONSTRUCTION JOINTS

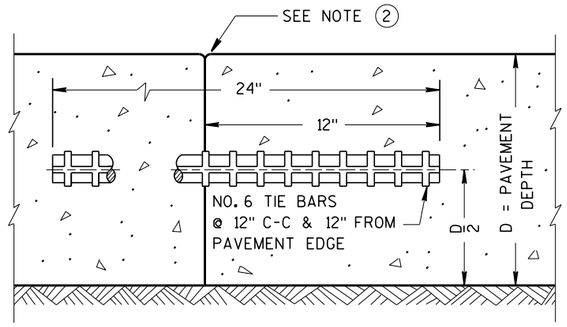
LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO THE CONTRACTION JOINTS.

FORM OR SAW CONSTRUCTION JOINTS.

THE CONTRACTOR MAY INSERT TIE BARS THROUGH THE HEADER BOARD AFTER THE CONCRETE HAS BEEN PLACED.

(1) REFER TO TYPICAL CROSS SECTIONS FOR PAVED WIDTH AND LOCATION OF LONGITUDINAL JOINTS.

(2) PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS. PROVIDE A 1/4-INCH RADIUS AT FORMED JOINTS.



TIED TRANSVERSE CONSTRUCTION JOINT

URBAN
NON-DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPI

FHWA

6

S.D.D. 13 C 4-17

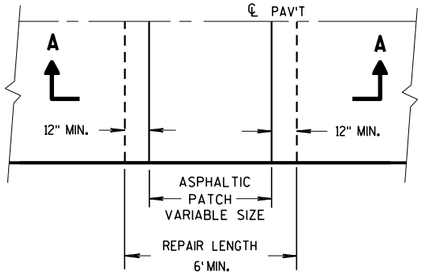
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

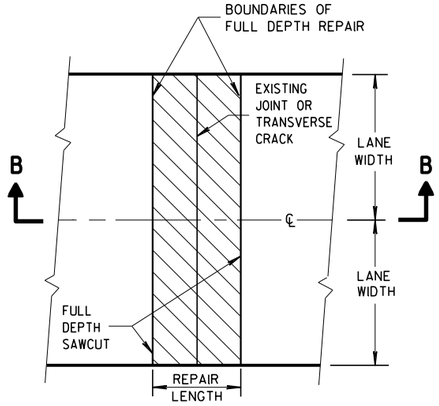
PROVIDE 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

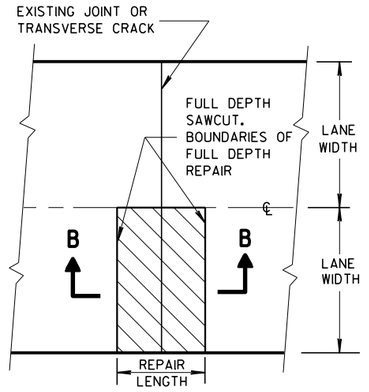
(1) DOWEL BARS MIGHT NOT EXIST.



PLAN VIEW

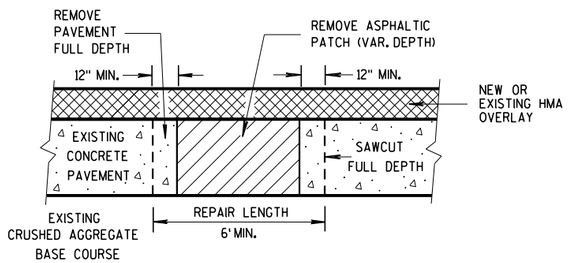


PLAN VIEW
(DOUBLE LANE REPAIR)



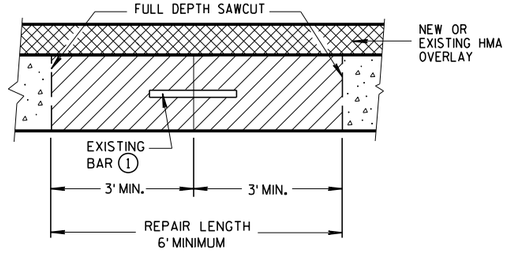
PLAN VIEW
(SINGLE LANE REPAIR)

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION A-A

HMA PATCH REMOVAL



SECTION B-B

CONCRETE REMOVAL

BASE PATCHING CONCRETE

STATE OF WISCONSI
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 13 C 14-7a

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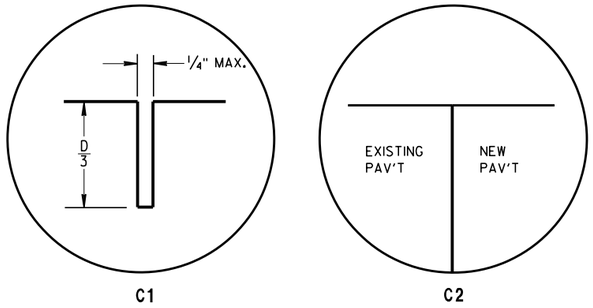
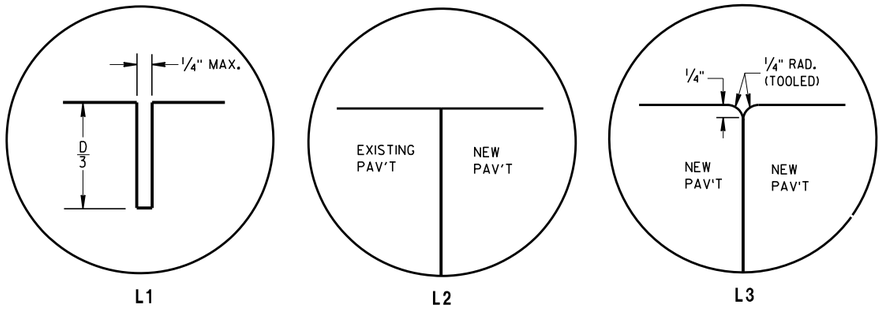
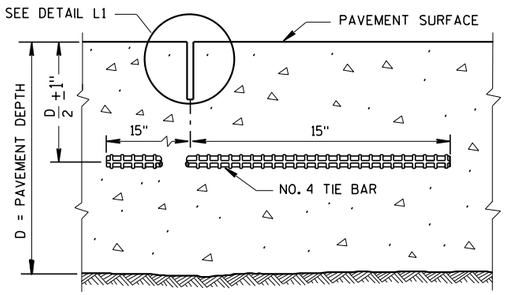
S.D.D. 13 C 14-7a



TRANSVERSE JOINTS

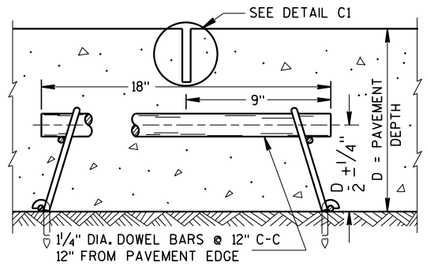


LONGITUDINAL JOINTS



SECTION C-C

SAWED LONGITUDINAL JOINT



SECTION F-F

CONTRACTION JOINT

GENERAL NOTES

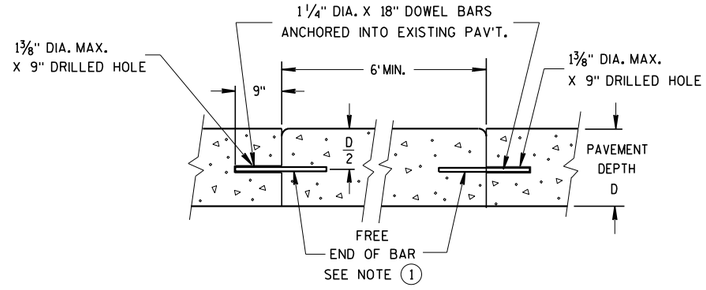
INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

CONCRETE BASE PATCHES OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

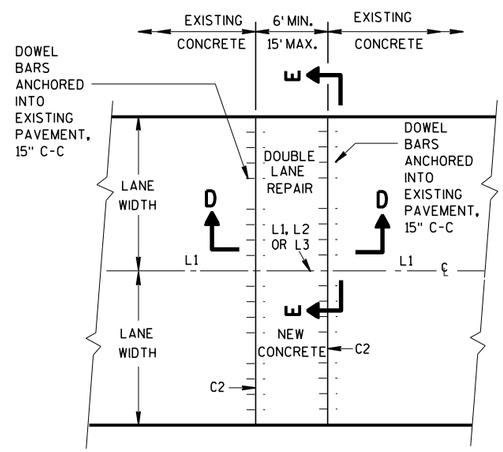
ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM AN EXISTING TRANSVERSE JOINT OR THE EDGE OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

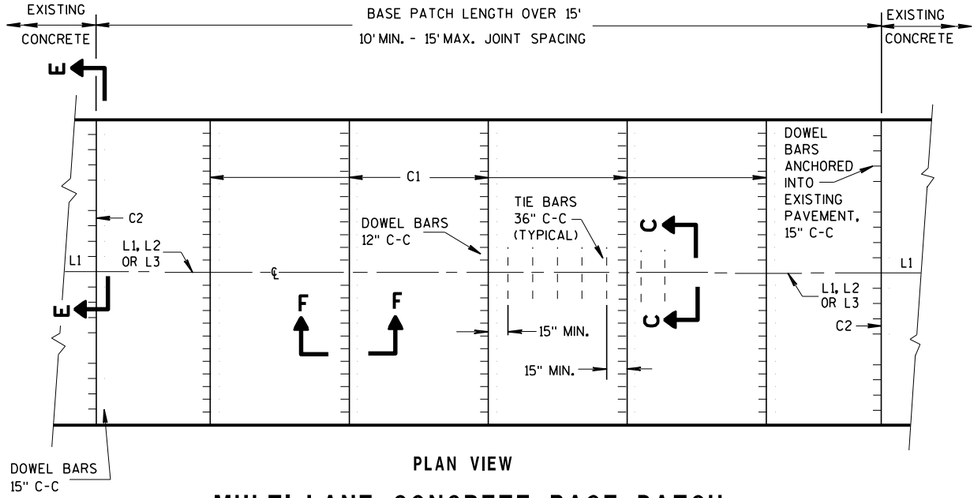


SECTION D-D



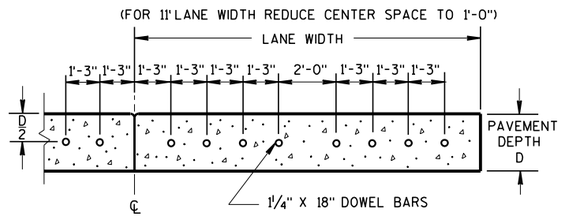
PLAN VIEW

MULTI-LANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

MULTI-LANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH



SECTION E-E

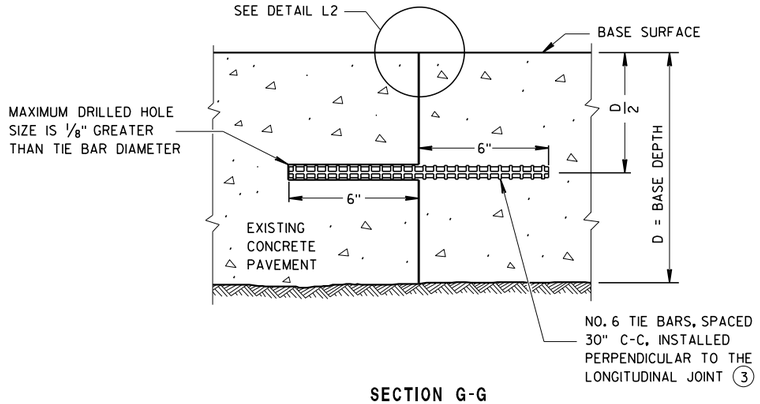
SPACING OF DOWEL BARS ANCHORED INTO EXISTING PAVEMENT

BASE PATCHING CONCRETE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 13 C 14-7b



SECTION G-G

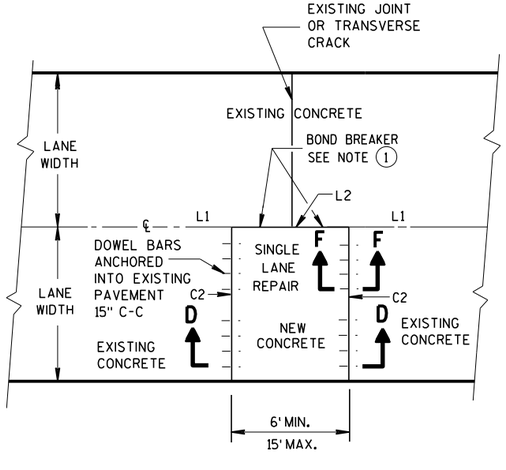
TIE BARS ANCHORED INTO EXISTING PAVEMENT

GENERAL NOTES

(1) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE BASE PATCHES UP TO 15 FEET IN LENGTH.

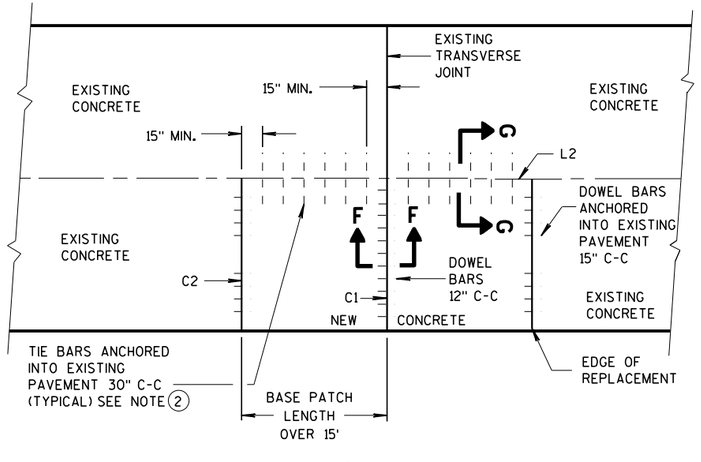
(2) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, DRILLED TIE BARS MAY BE INSTALLED ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.

(3) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH

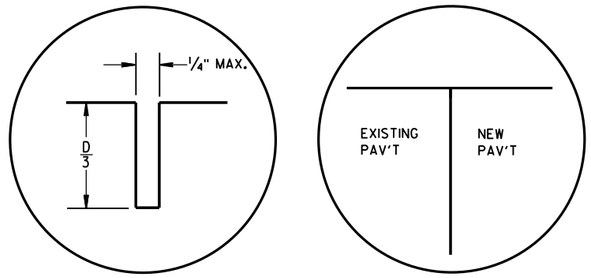
BASE PATCHING CONCRETE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

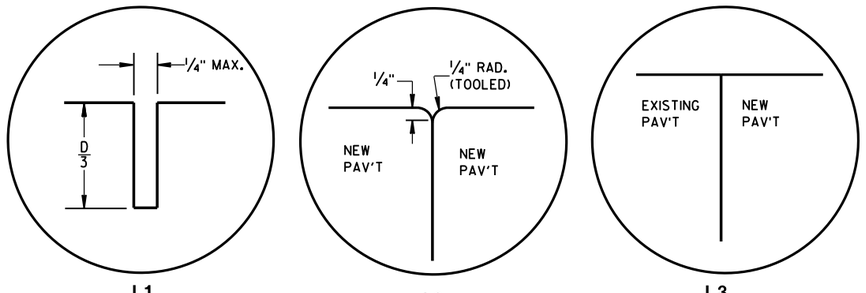
APPROVED
March 2018 — DATE
/S/ Peter Kemp P.E. — PAVEMENT SUPERVISOR
FHWA

6

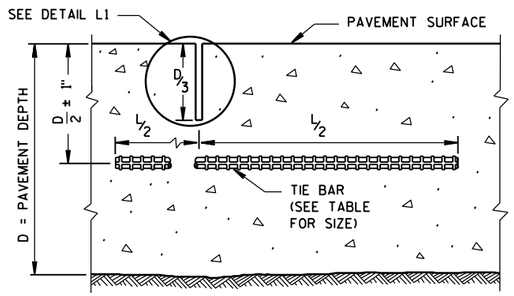
S.D.D. 13 C 14-7c



TRANSVERSE JOINTS

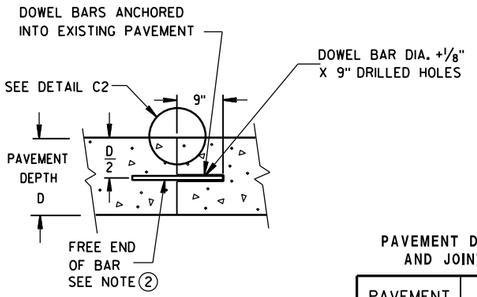


LONGITUDINAL JOINTS



SECTION C-C

SAWED JOINT



SECTION D-D

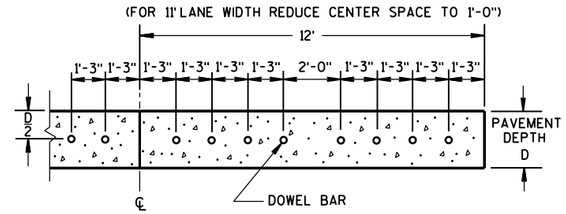
GENERAL NOTES

ANCHOR TIE BARS AND DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY.

PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM AN EXISTING TRANSVERSE JOINT OR THE EDGE OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

(2) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.



SECTION E-E

SPACING OF DOWEL BARS ANCHORED INTO EXISTING PAVEMENT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

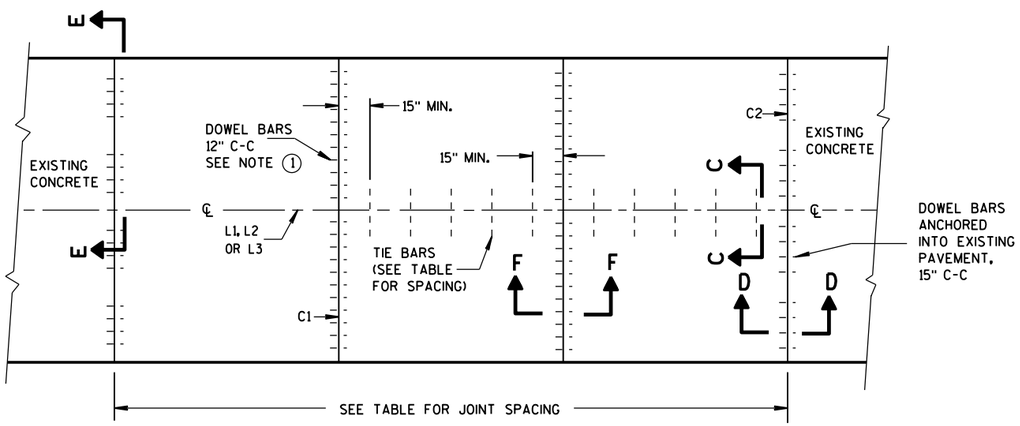
PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5½", 6, 6 ½"	NONE	12'
7, 7 ½"	1"	14'
8, 8 ½"	1 ¼"	15'
9, 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

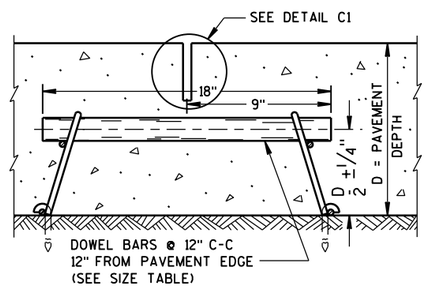
* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



PLAN VIEW

CONCRETE BASE CONTRACTION JOINT LOCATIONS



SECTION F-F

CONTRACTION JOINT

CONCRETE BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

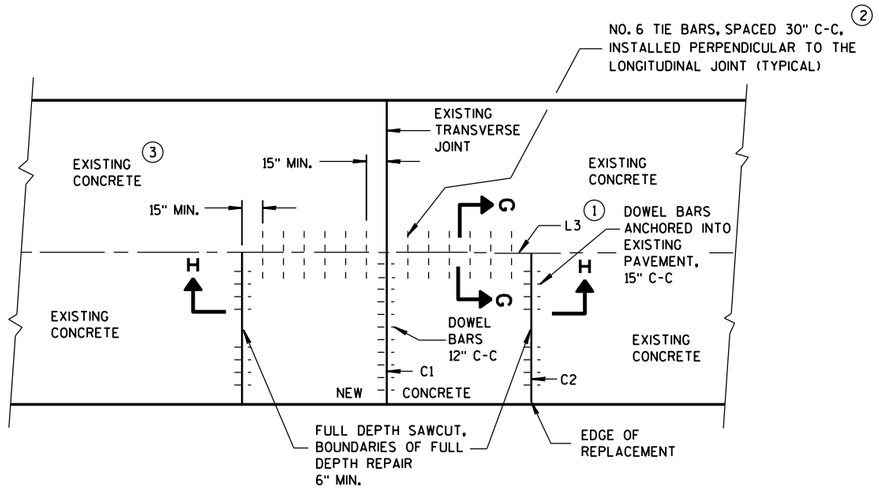
6
S.D.D. 13 C 15-6a

GENERAL NOTES

(1) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) AT THE LONGITUDINAL JOINT IN LIEU OF TIE BARS FOR SINGLE LANE CONCRETE BASE REPAIRS UP TO 15 FEET IN LENGTH.

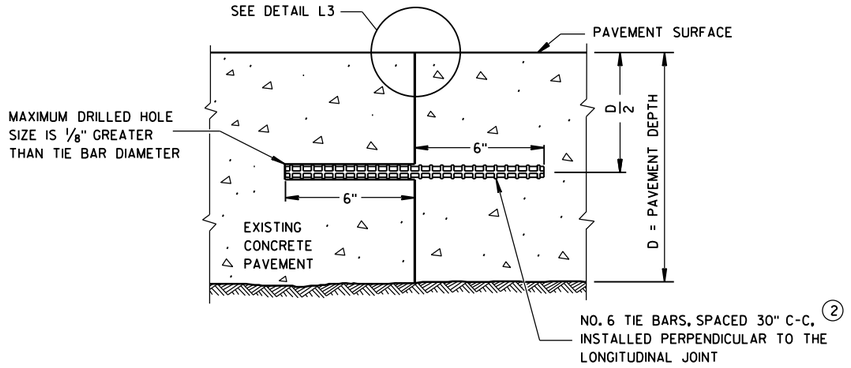
(2) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(3) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.



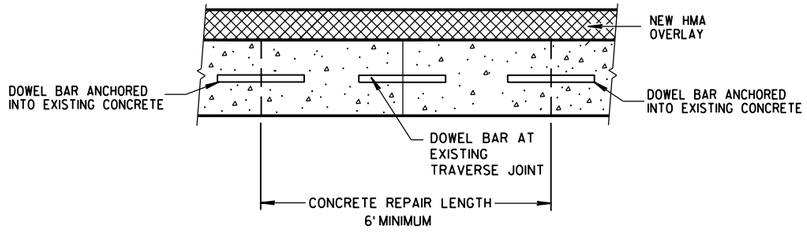
PLAN VIEW

SINGLE LANE CONCRETE BASE REPAIR



SECTION G-G

TIE BARS ANCHORED INTO EXISTING PAVEMENT



SECTION H-H

CONCRETE BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPEI
FHWA

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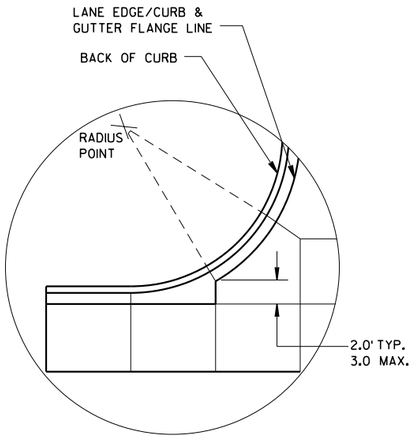
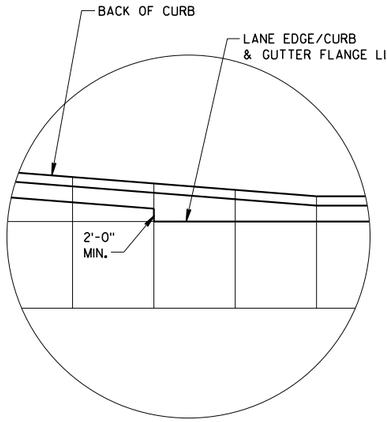
S.D.D. 13 C 15-6b



DETAIL "A"



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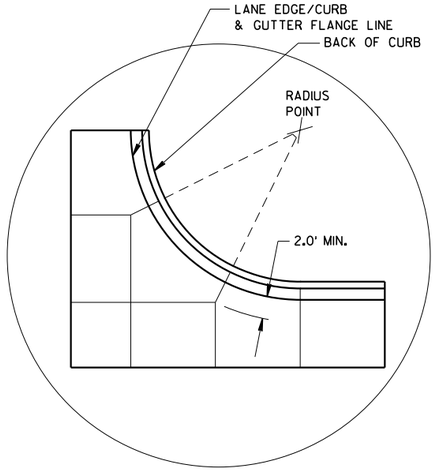

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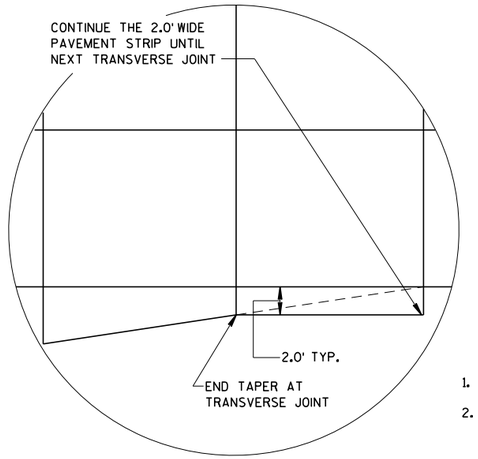


DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G. MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

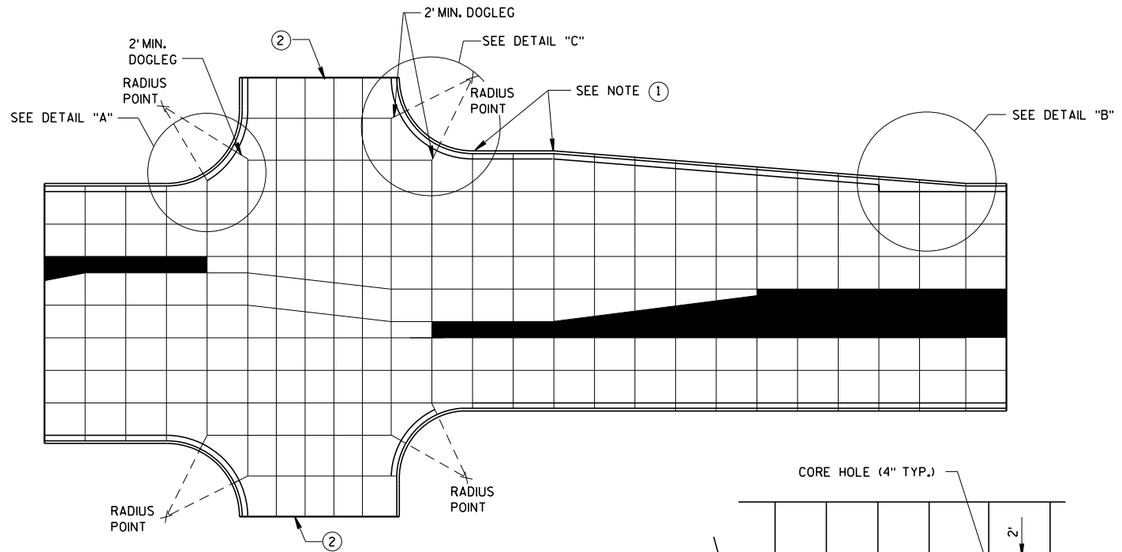
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

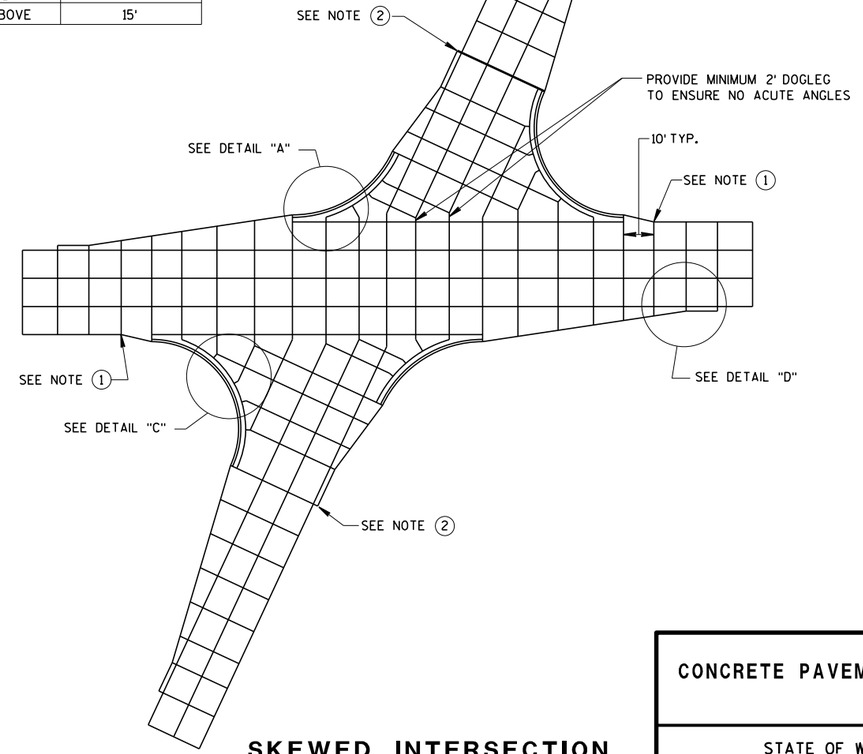
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



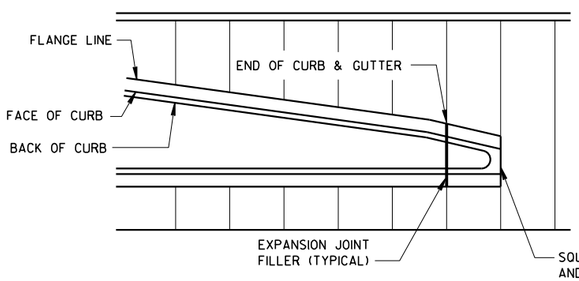
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

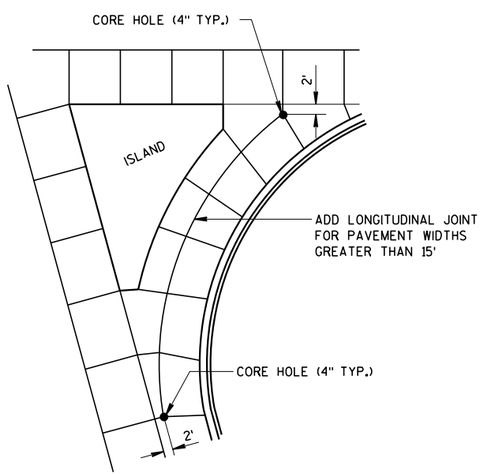
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

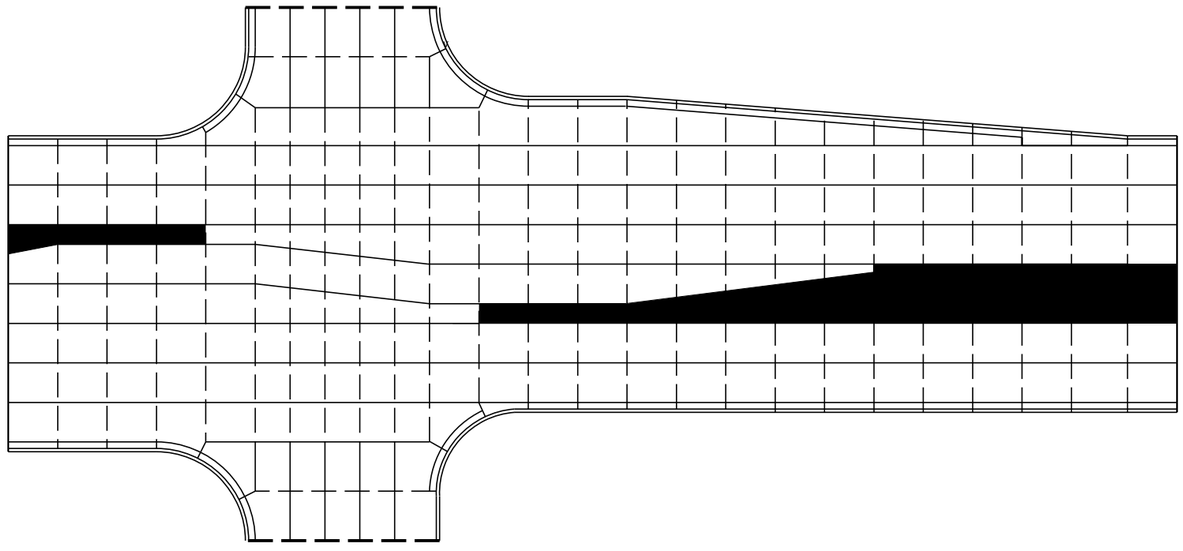
6
S.D.D. 13 C 18-6a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

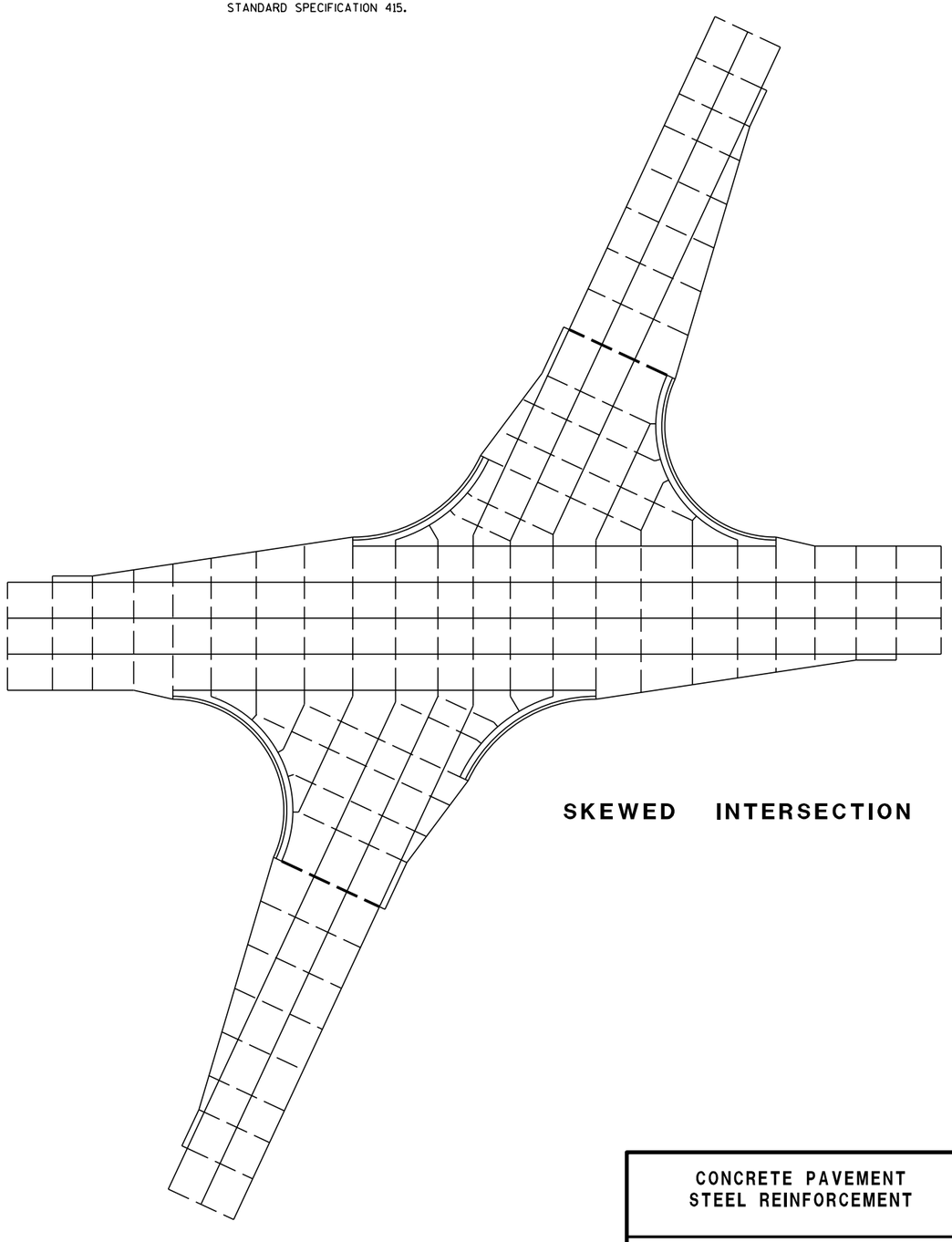
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

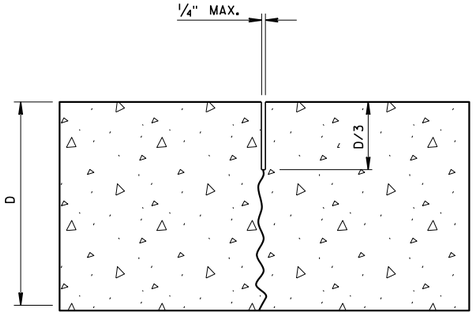
S.D.D. 13 C 18-6b

CONCRETE PAVEMENT
STEEL REINFORCEMENT

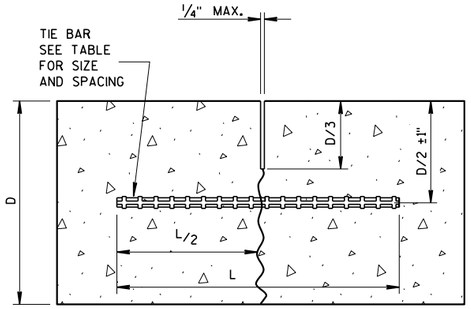
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 13 C 18-6b



UNDOWELED-TRANSVERSE



TIED LONGITUDINAL

TIE BAR TABLE

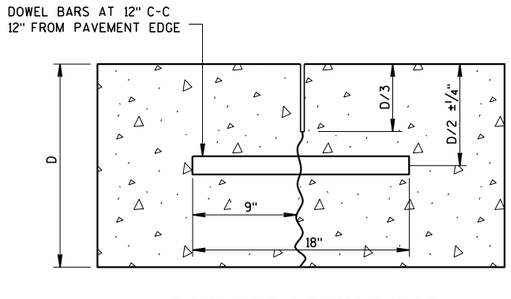
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

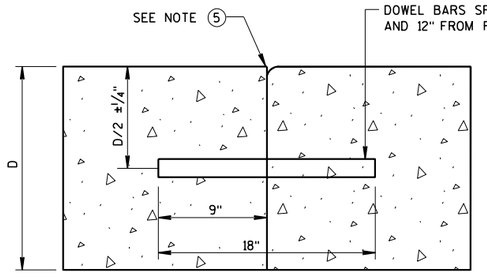
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A 1/4-INCH RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



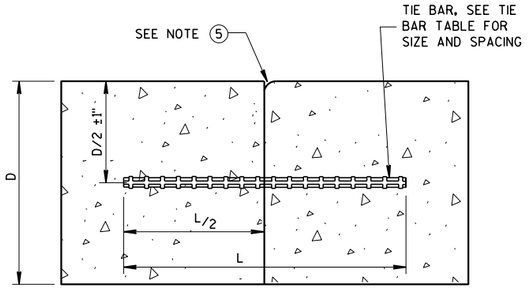
DOWELED-TRANSVERSE

CONTRACTION JOINTS

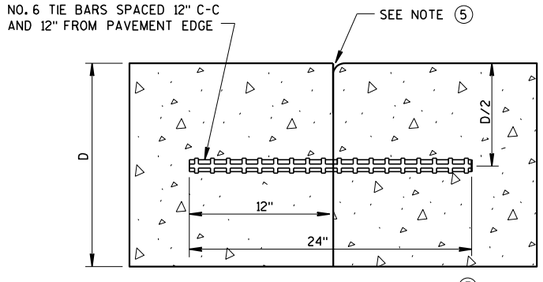
SEE NOTE (2)



DOWELED TRANSVERSE (3)

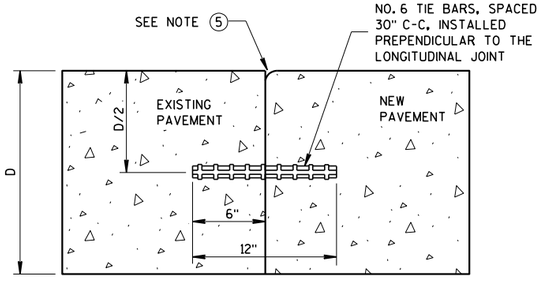


TIED LONGITUDINAL



TIED TRANSVERSE (3)

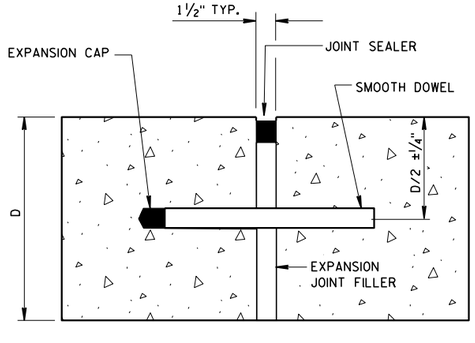
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

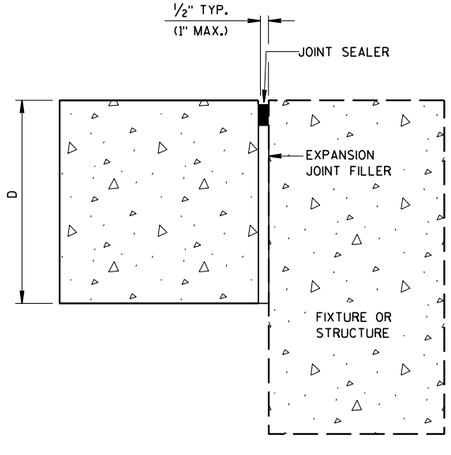
CONSTRUCTION JOINTS

SEE NOTE (4)



DOWELED-TRANSVERSE

SEE NOTE (1)



UNTIED-LONGITUDINAL

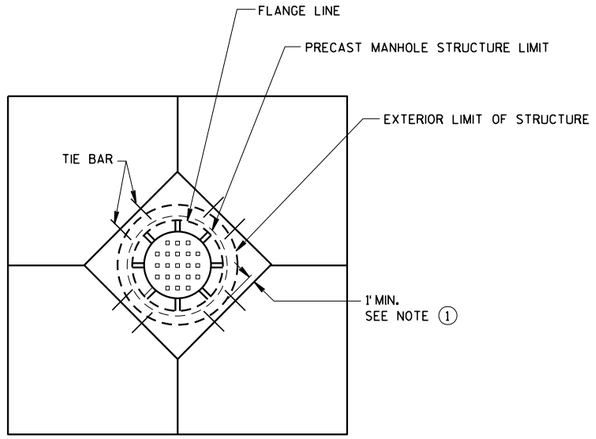
EXPANSION JOINTS

CONCRETE PAVEMENT
JOINT TYPES

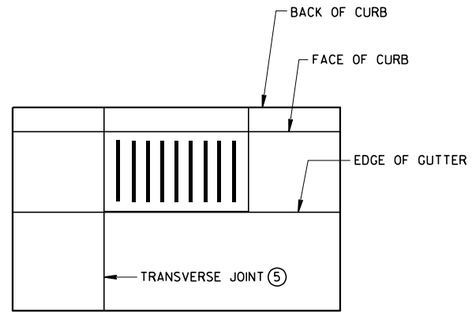
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

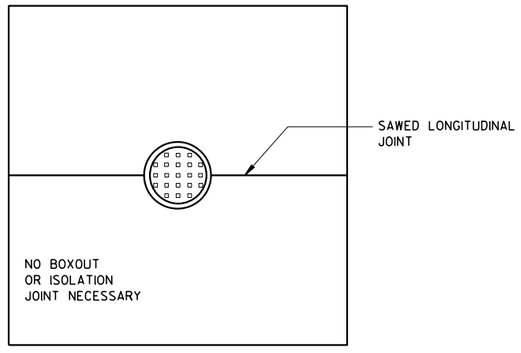
S.D.D. 13 C 18-6c



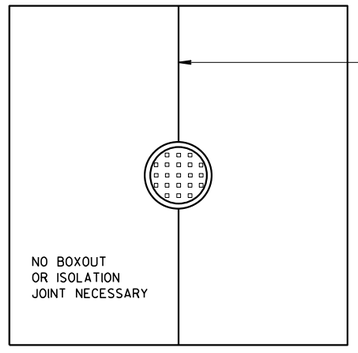
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



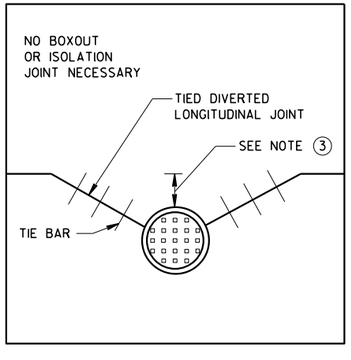
INLET WITH TRANSVERSE JOINT



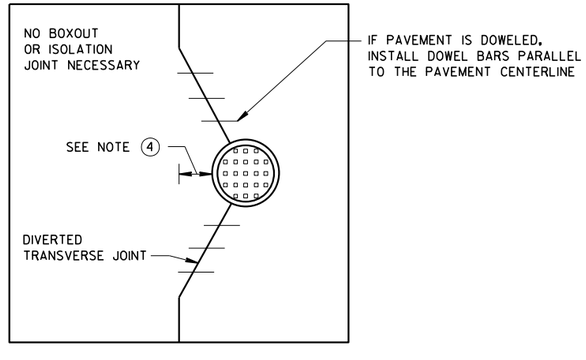
MANHOLE WITH LONGITUDINAL JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

GENERAL NOTES

(1) USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1-FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.

(2) ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.

(3) IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDIAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(4) IF DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

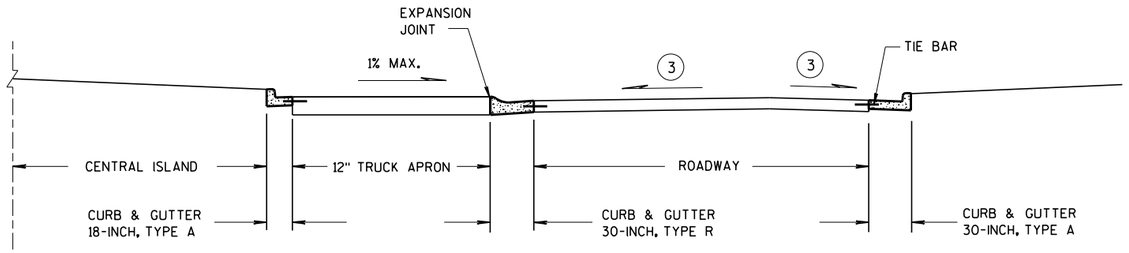
CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

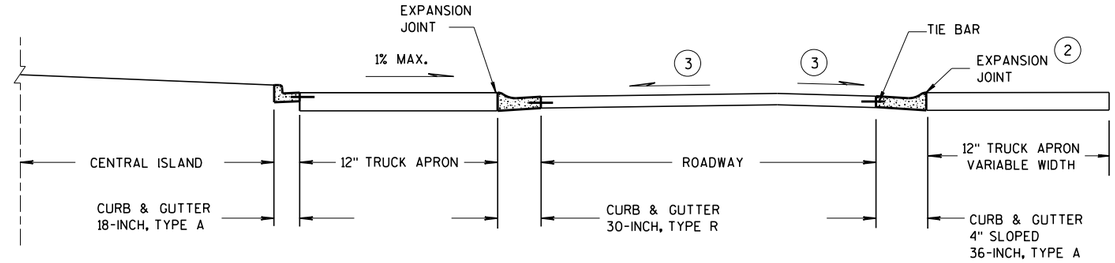
APPROVED
March 2018 — DATE
/S/ Peter K[illegible] P.E. — PAVEMENT SUPE
FHWA

6

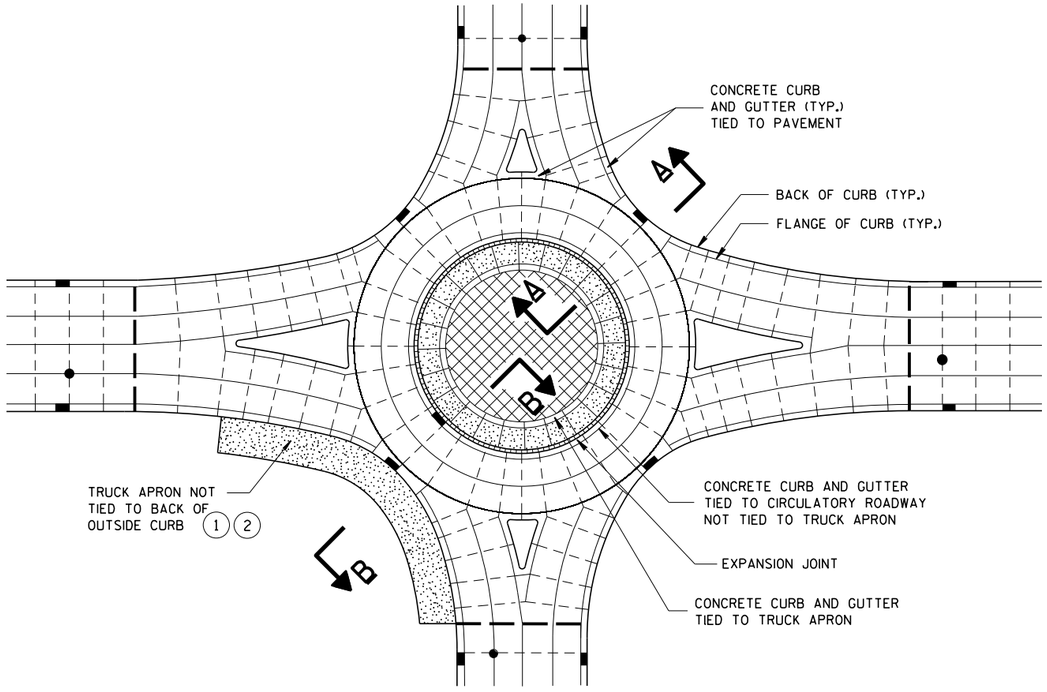
S.D.D. 13 C 18-6d



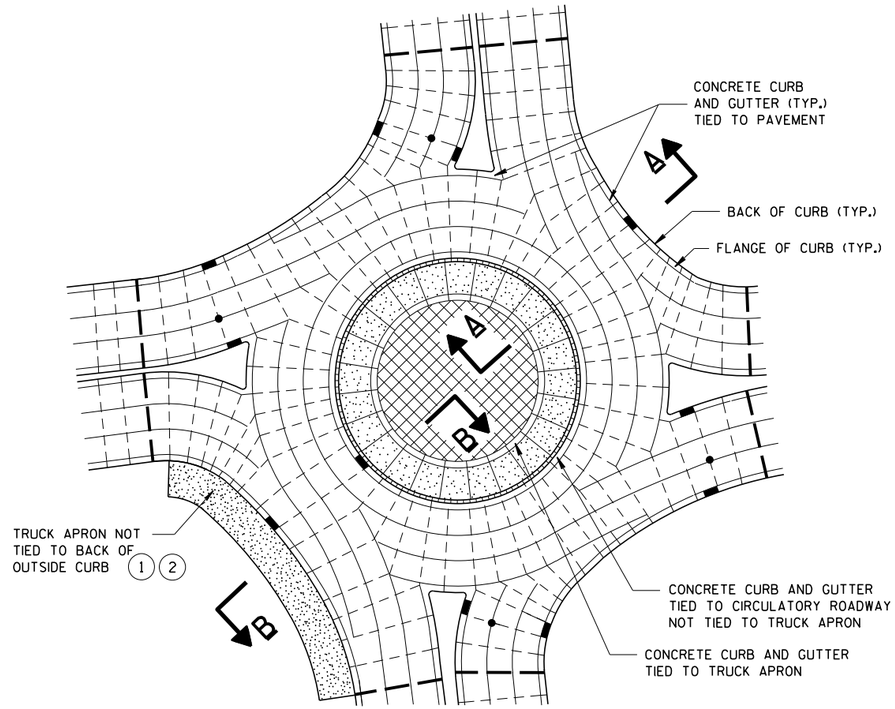
SECTION A-A



SECTION B-B



ISOLATED CIRCLE JOINT LAYOUT FOR ROUNDABOUTS



PINWHEEL JOINT LAYOUT FOR ROUNDABOUTS

GENERAL NOTES

MAXIMUM JOINT SPACING IS IN ACCORDANCE WITH THE TABLE SHOWN ON SDD 13C18 SHEET "a".

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.

DO NOT DOWEL OR TIE THE TRUCK APRON TRANSVERSE JOINTS.

(1) DESIGNER DETERMINES SIZE AND LOCATION(S) OF TRUCK APRON TO ACCOMMODATE TRACKING OF OVERSIZE/OVERWEIGHT VEHICLES.

(2) TIE THE OUTSIDE TRUCK APRON TO THE BACK SIDE OF CURB ONLY WHEN ENTIRE TRUCK APRON WIDTH IS LESS THAN 3 FEET.

(3) CONFORM TO PLAN CONSTRUCTION DETAILS FOR CIRCULATORY ROADWAY CROSS SLOPE.

LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT
- TRUCK APRON
- CENTRAL ISLAND
- UTILITY STRUCTURES

CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

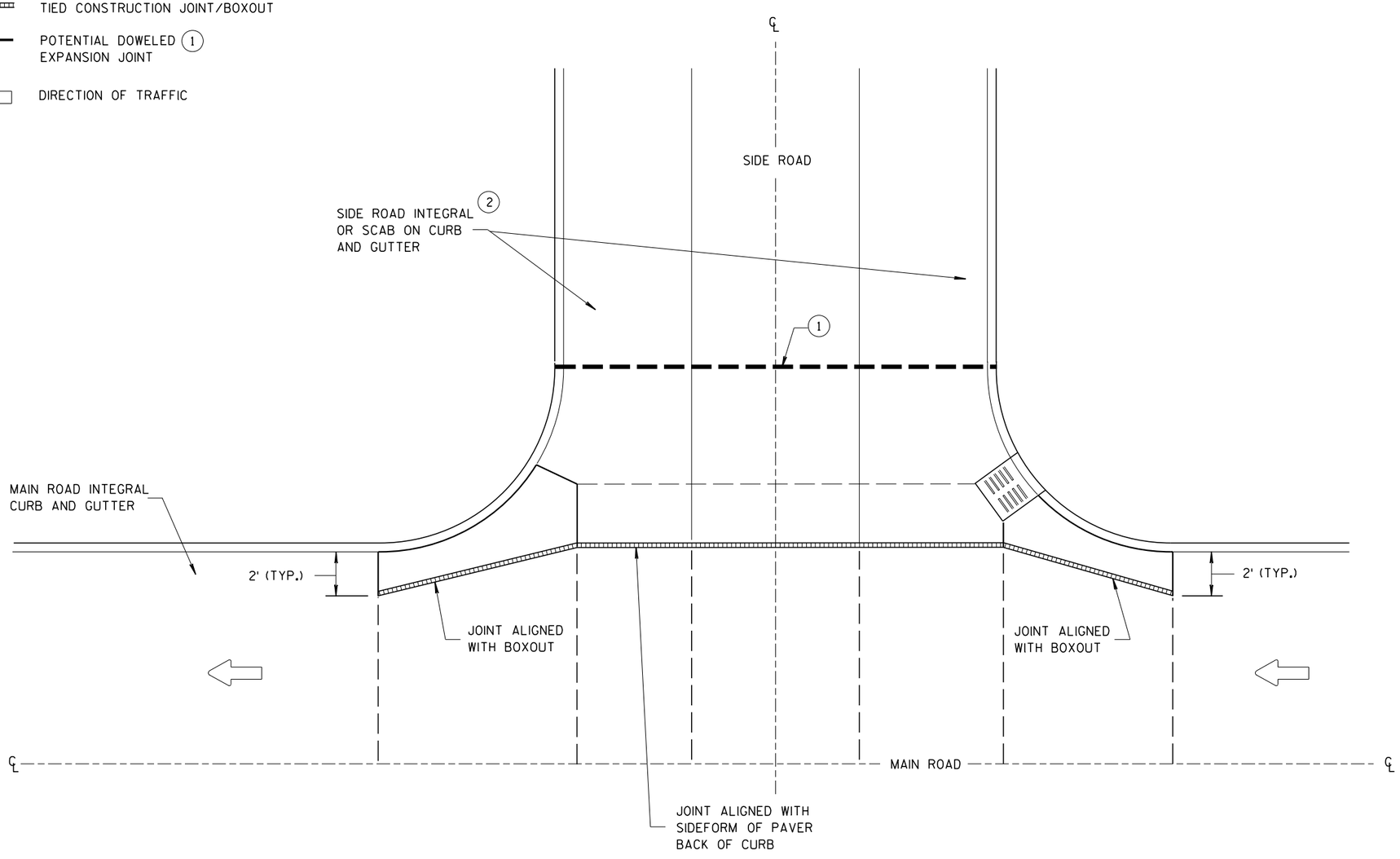
APPROVED
March 2018 — DATE
/S/ Peter Ke — PAVEMENT SUF
FHWA

6

S.D.D. 13 C 18-6e

LEGEND

- DOWELED JOINT
- TIED JOINT
- TIED CONSTRUCTION JOINT/BOXOUT
- POTENTIAL DOWELED EXPANSION JOINT (1)
- DIRECTION OF TRAFFIC



GENERAL NOTES

1. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH, ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.

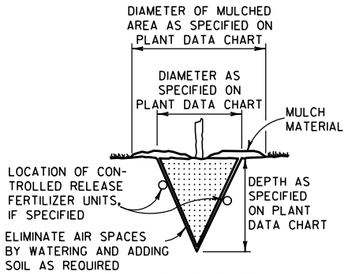
2. PROVIDE TIED JOINT AT THE FLANGE OF SCAB ON CURB IF SCAB ON CURB AND GUTTER IS USED.

INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER

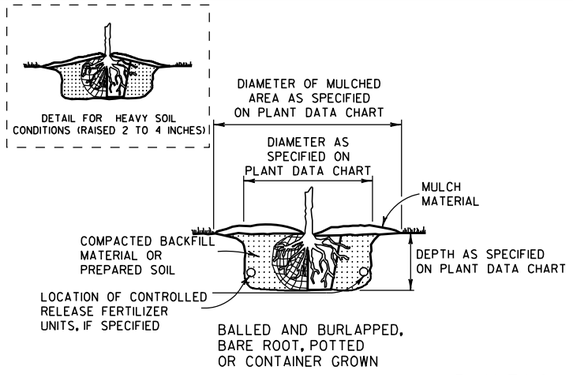
CONCRETE PAVEMENT INTERSECTION BOXOUT FOR INTEGRAL CURB AND GUTTER	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
March 2018 DATE	/S/ Peter Ke-- P.E. PAVEMENT SUF
FHWA	

6

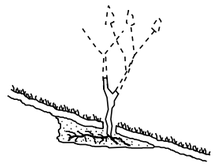
S.D.D. 13 C 18-6f



MACHINE MOVED

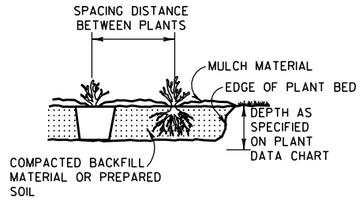


BALLED AND BURLAPPED, BARE ROOT, POTTED OR CONTAINER GROWN



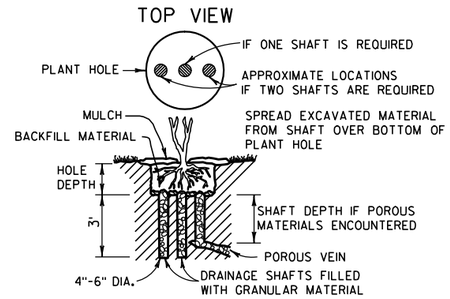
ACCOMMODATE ROOTS (SMOOTH AND STAGHORN SUMAC)

NOTE:
1) ENGINEER SHALL REQUIRE 3 SLITS IN POT TO SPEED DETERIORATION
2) METAL, PLASTIC OR OTHER NONDEGRADABLE POTS SHALL BE REMOVED PRIOR TO PLANTING



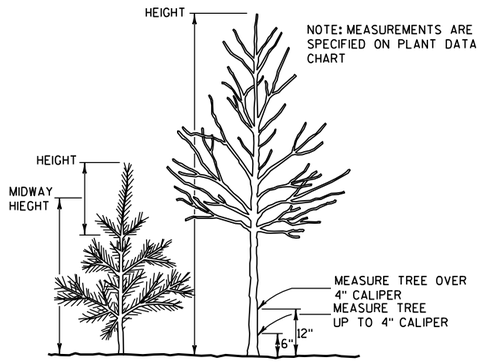
PREPARED BED (BARE ROOT AND POTTED)

PLANTING

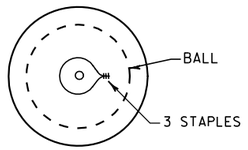


NOTE:
DRAINAGE SHAFT AS SPECIFIED ON PLANT DATA CHART

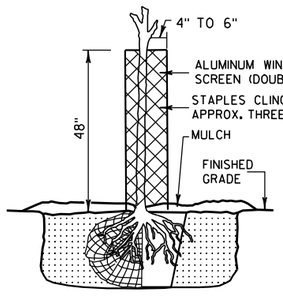
DRAINING



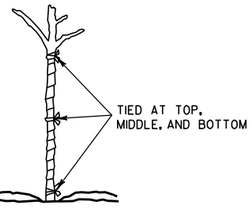
MEASURING



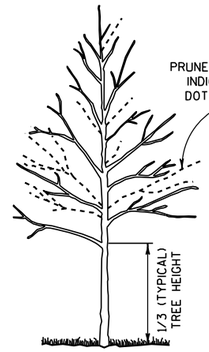
TOP VIEW



RODENT PROTECTION



WRAPPING

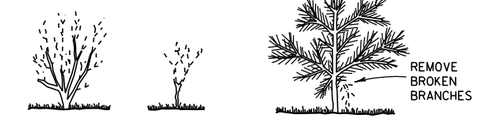


TALL DECIDUOUS TREES (ASH, MAPLE, LINDEN, OAK)

SINGLE STEMMED LOW DECIDUOUS TREES (CRABS AND OTHER SINGLE STEM TYPE)

MULTI-STEMMED LOW DECIDUOUS TREES OR LARGE SHRUBS (HAWTHORN, SERVICEBERRY)

NOTE: WHEN PRUNING, PRESERVE CHARACTER AND SHAPE OF TREE. AVOID LEAVING STUBS - REMOVE BRANCH OR TWIG BACK TO THE NEAREST CROTCH
1) PRUNE TO REMOVE DEAD AND BROKEN BRANCHES
2) PRUNE TO REMOVE BRANCHES THAT TOUCH OR ARE TOO CLOSE TO OTHER BRANCHES

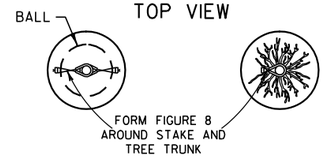


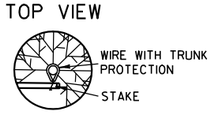
SHRUBS (GRAY DOGWOOD ARROWWOOD VIBURNUM)

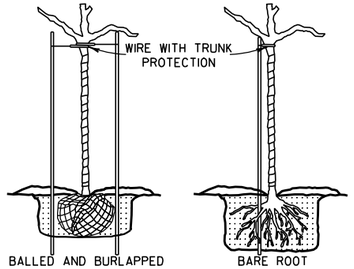
SUMAC

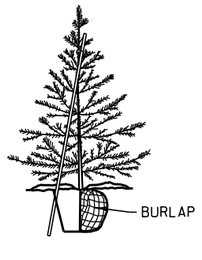
TREE TYPE EVERGREENS (PINE, SPRUCE, FIR) EVERGREENS USUALLY ARE NOT PRUNED

PRUNING



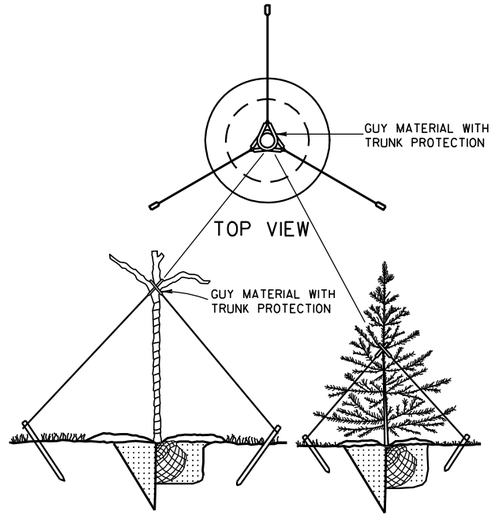






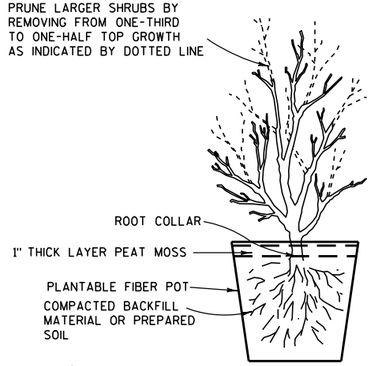
NOTE: BRACING STAKE
1) SHALL BE DRIVEN INTO THE GROUND AS CLOSE TO THE TREE AS POSSIBLE WITHOUT DAMAGING THE BRANCHES.
2) MAY BE DRIVEN AT SUCH AN ANGLE THAT IT DOES NOT PENETRATE THE BALL OR POT.
3) SHALL NOT PROTRUDE ABOVE THE TOP OF THE TREE; AND
4) SHALL HAVE A HOLE NEAR THE TOP TO HOLD THE WIRE IN PLACE.

BRACING



GUYING

PRUNE LARGER SHRUBS BY REMOVING FROM ONE-THIRD TO ONE-HALF TOP GROWTH AS INDICATED BY DOTTED LINE



POTTING

NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

BRACING, WRAPPING, GUYING, RODENT PROTECTION, FERTILIZER AND MULCH SHALL BE USED ONLY WHEN SPECIFIED ON THE PLANT DATA CHART (PART OF PLAN) OR SPECIAL PROVISIONS.

TREE PLANTING DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/11/94
DATE
/S/ Rory L. Rhinesmith
CHIEF METHODS DEVELOPMENT ENGINEER
628
FHWA

6
S.D.D. 14 A 2-1
6

(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

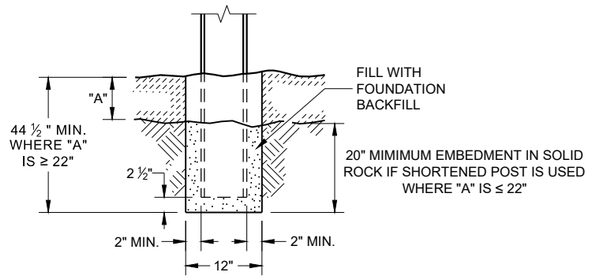
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

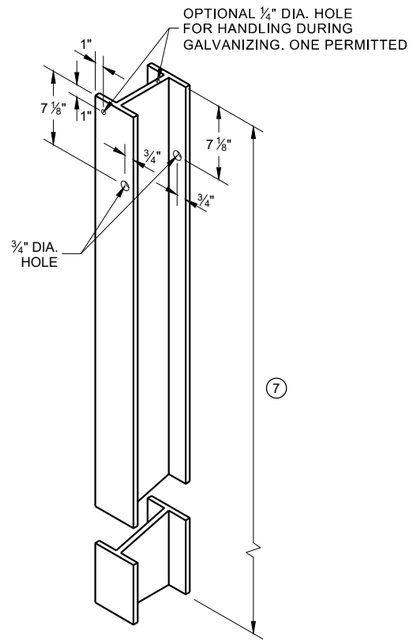
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS +1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

(6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

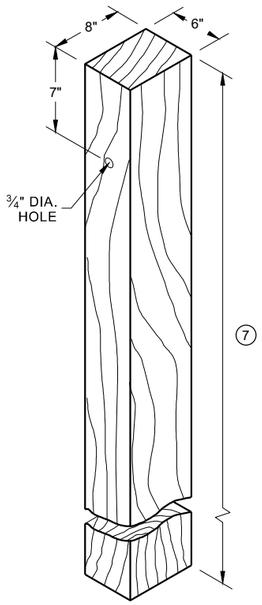
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



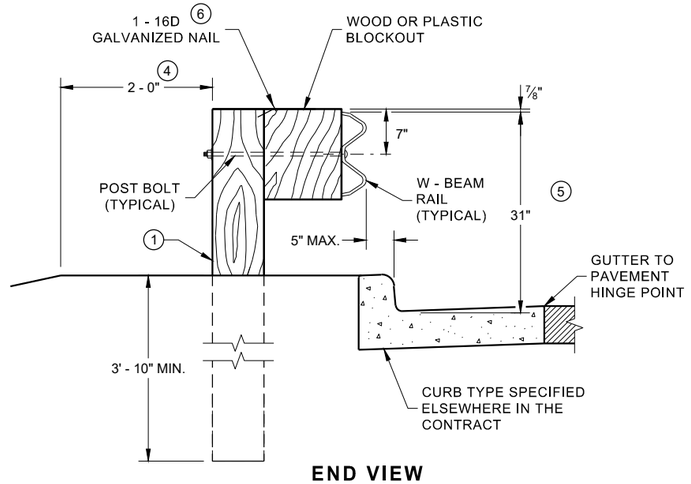
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



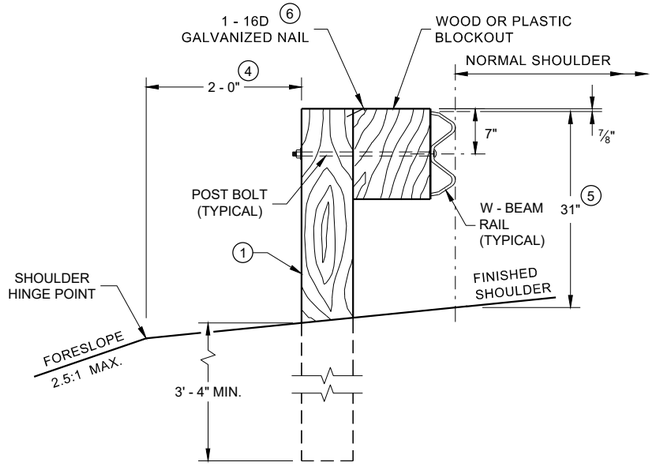
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



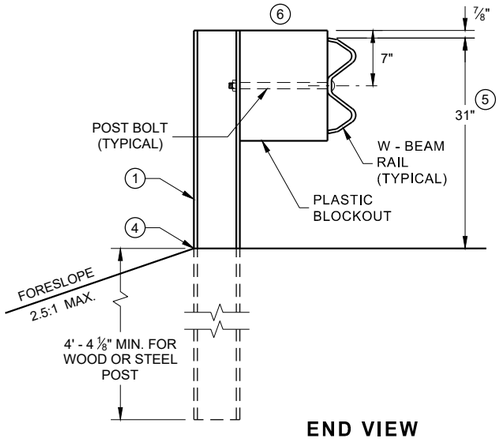
WOOD POST (6" X 8") NOMINAL (1)



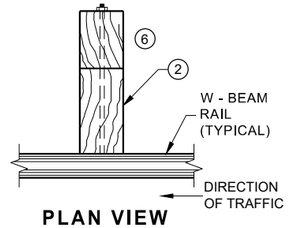
END VIEW
LOCATED ALONG A CURBED ROADWAY



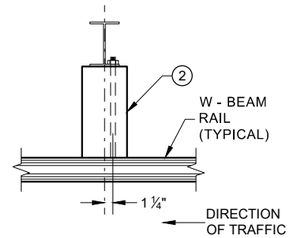
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



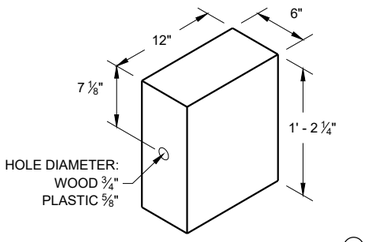
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

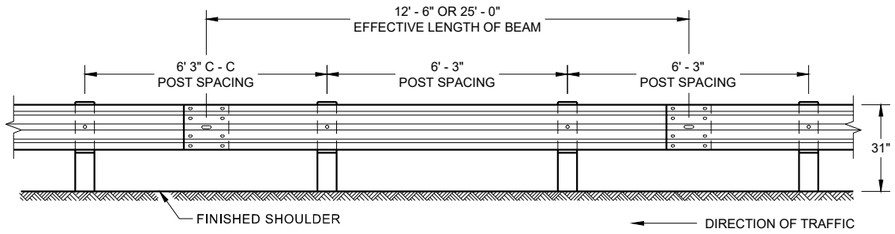
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

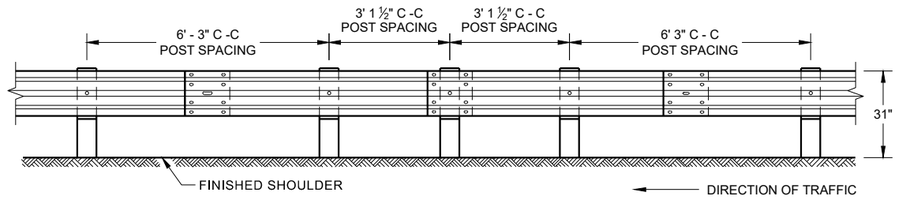
SDD 14B42 - 06a

6

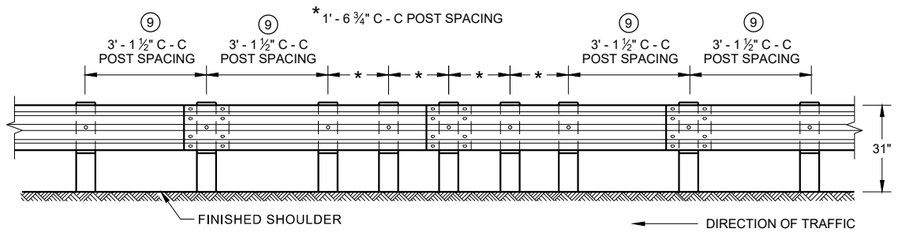
SDD 14B42 - 06a



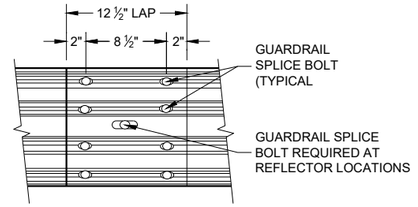
FRONT VIEW
POST SPACING STANDARD INSTALLATION



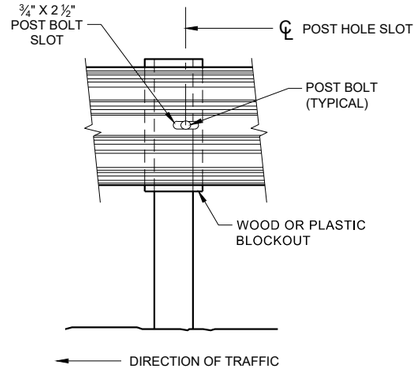
FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



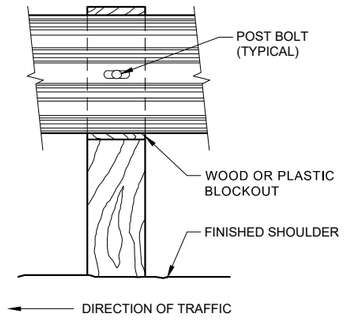
FRONT VIEW
QUARTER POST SPACING (QS)



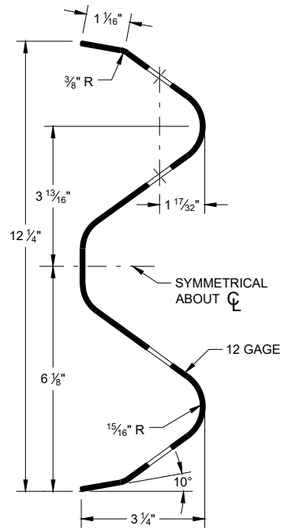
FRONT VIEW
MID-SPAN BEAM SPLICE



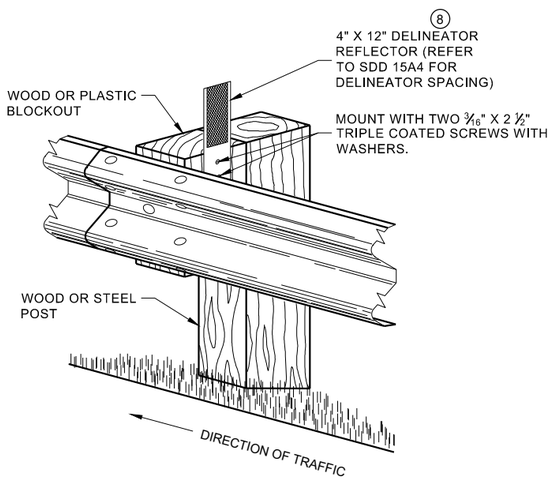
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

GENERAL NOTES

⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.

⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

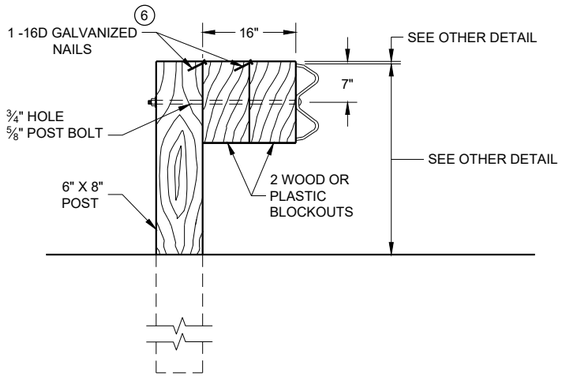
POST BOLTS ARE A ¾" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 14B42 - 06b

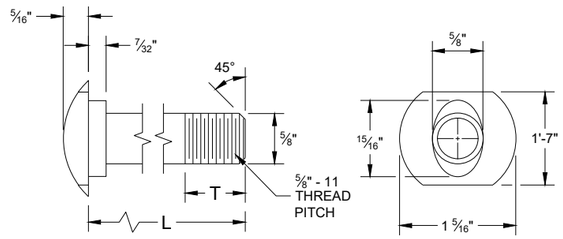


DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

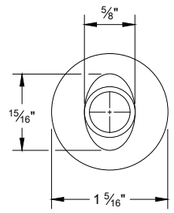
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3⁄16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

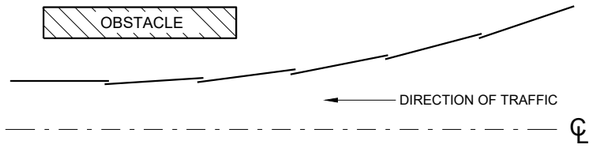


POST BOLT TABLE

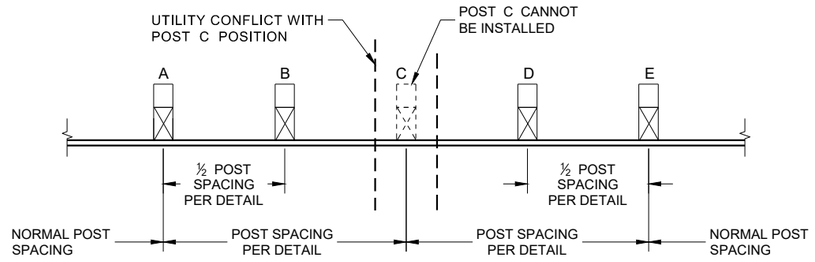
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"



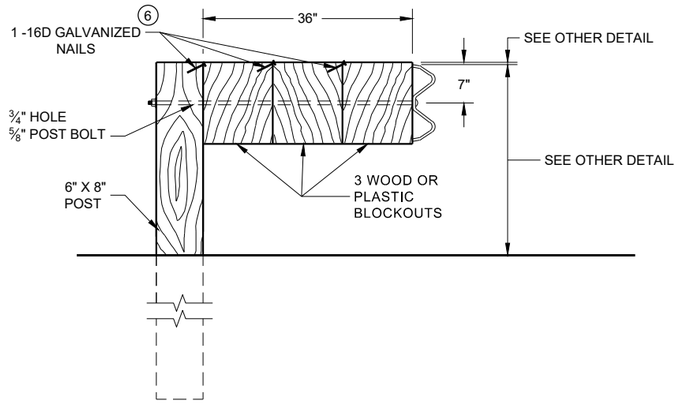
ALTERNATE BOLT HEAD



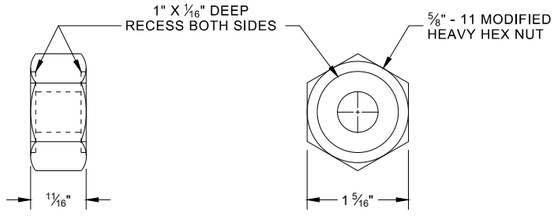
PLAN VIEW
BEAM LAPPING DETAIL



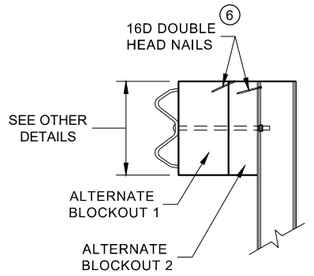
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



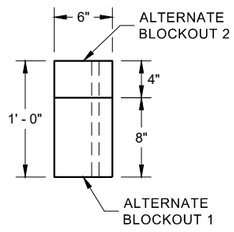
DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



PLAN VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

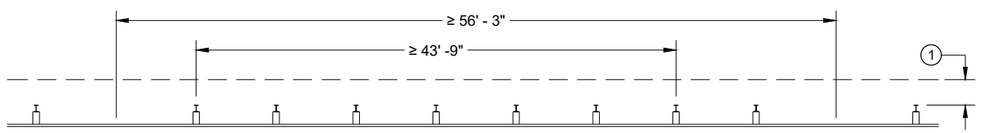
(6) WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

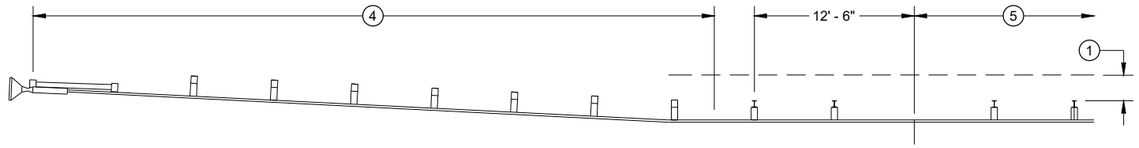
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

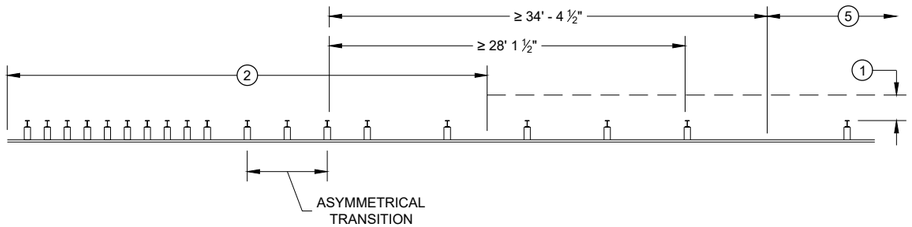
SDD 14B42 - 06c



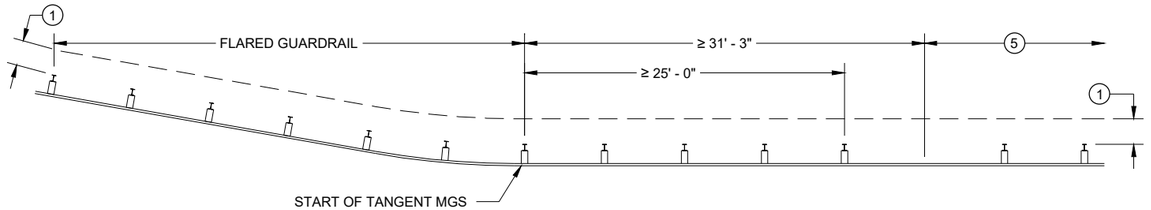
MISSING POST IN NORMAL BEAM GUARD RUN



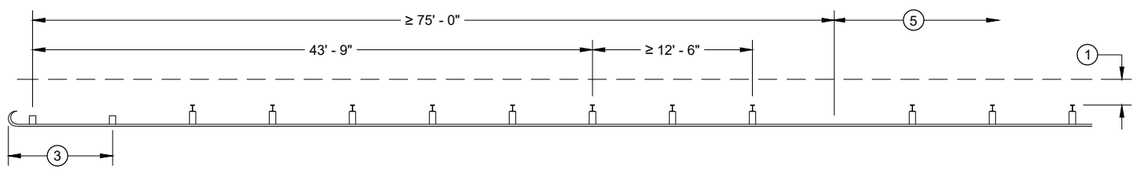
MISSING POST IN NORMAL BEAM GUARD RUN NEAR EAT



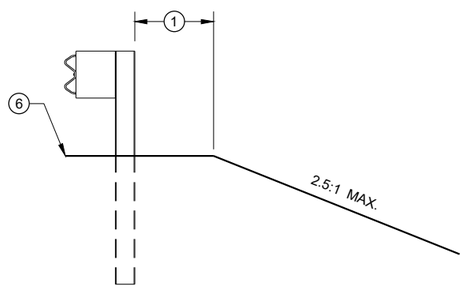
MISSING POST NEAR APPROACH THRIE BEAM TRANSITION



MISSING POST IN NORMAL BEAM GUARD RUN NEAR FLARED BEAM GUARD



MISSING POST IN NORMAL BEAM GUARD RUN NEAR TYPE 2 TERMINAL



CROSS SECTION VIEW

1. MINIMUM OF 2 FEET OF GRADING BEHIND POST.
2. SEE SDD 14B45 FOR MORE DETAILS.
3. SEE SDD 14B47 FOR MORE DETAILS.
4. SEE SDD 14B44 FOR MORE DETAILS.
5. SEE MISSING POST IN NORMAL BEAM GUARD RUN FOR DISTANCE TO NEXT MISSING POST AND AREA FOR WELL DRAINED, COMPACTED SOILS.
6. SEE PLAN FOR SHOULDER DESIGN.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR
FHWA

6

SDD 14B42 - 06d

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED

(C) DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.

(D) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.

(E) HARDWARE MAY VARY BETWEEN MANUFACTURER. SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

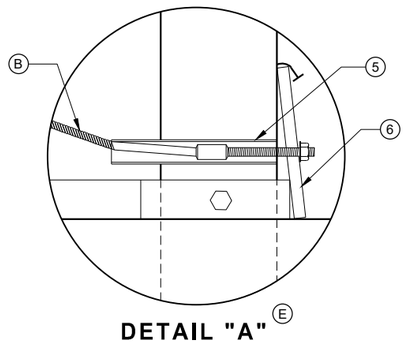
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

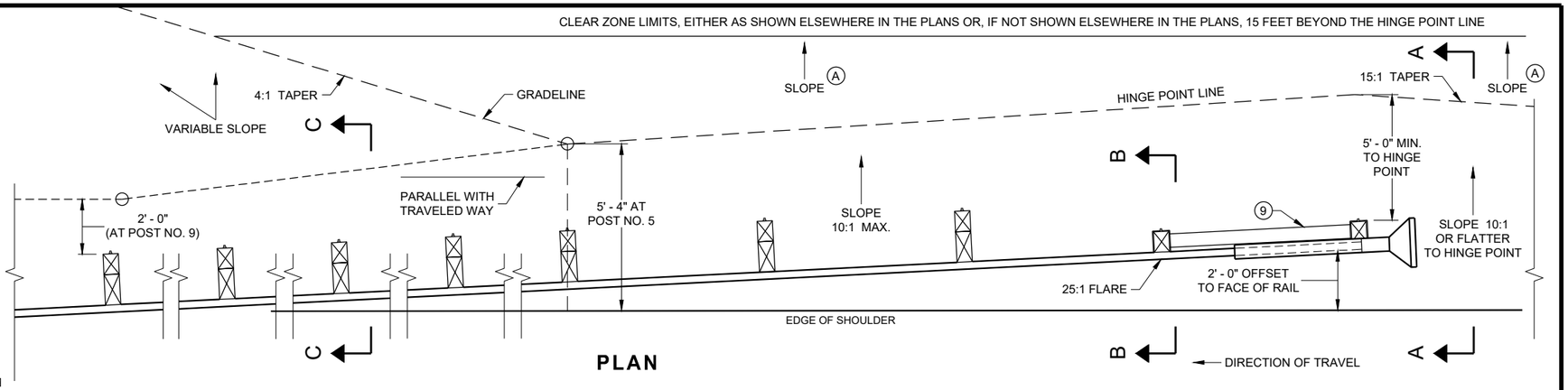
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

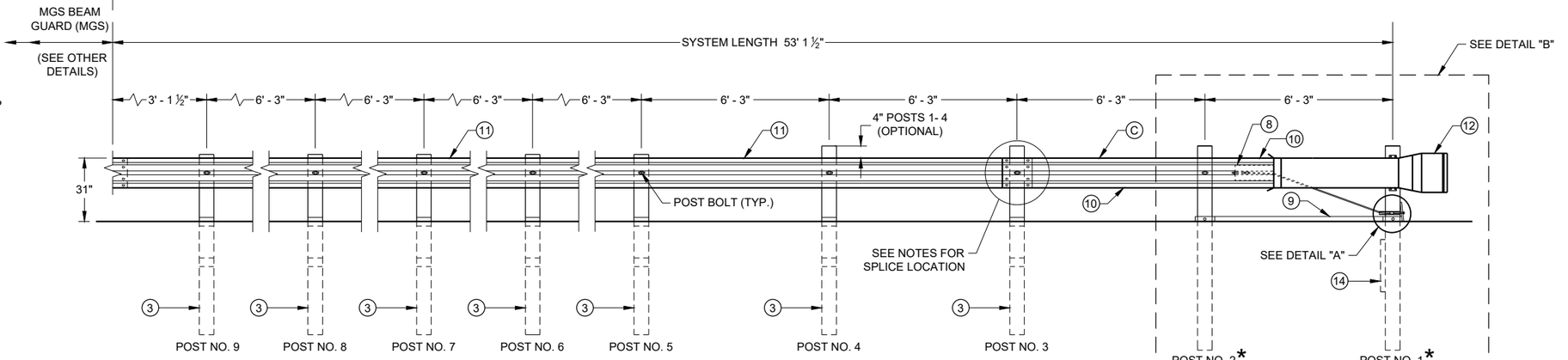
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



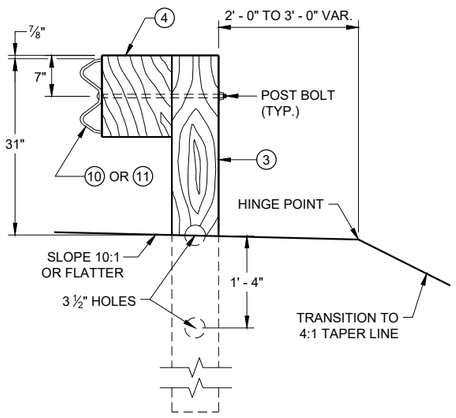
DETAIL "A" (E)



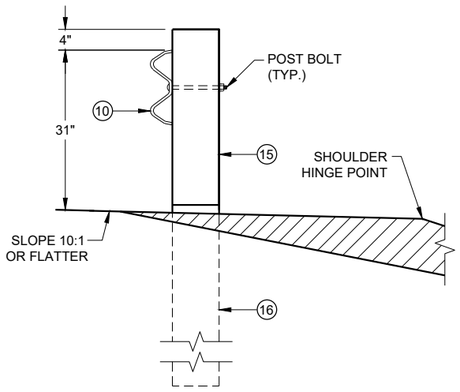
PLAN



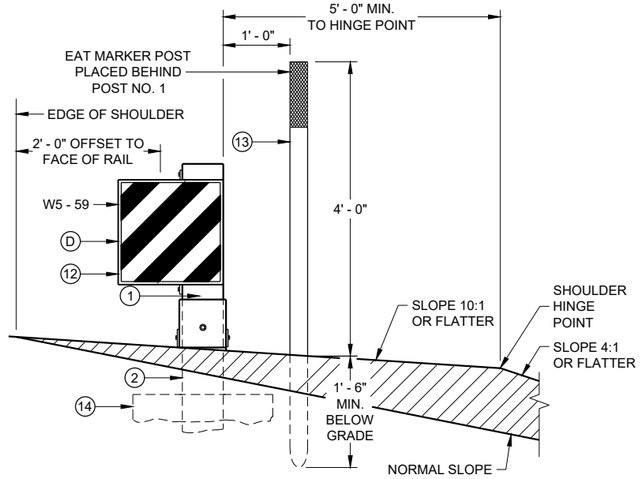
ELEVATION



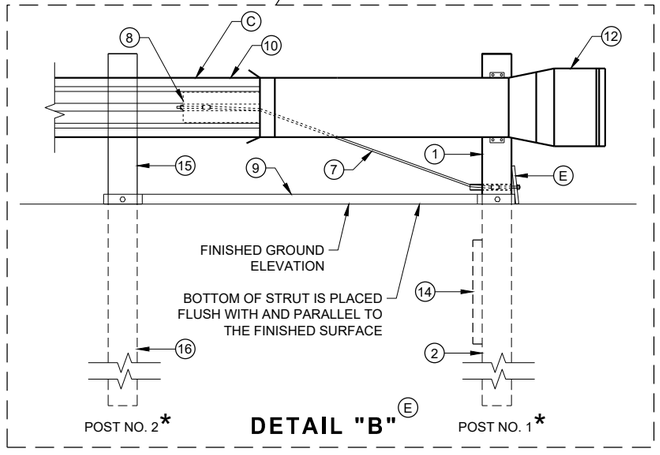
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

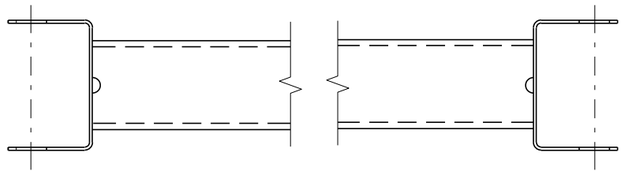
633

SDD 14B44 - 04a

SDD 14B44 - 04a

6

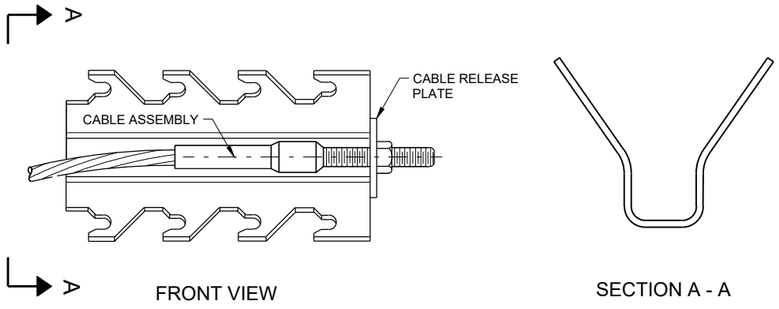
6



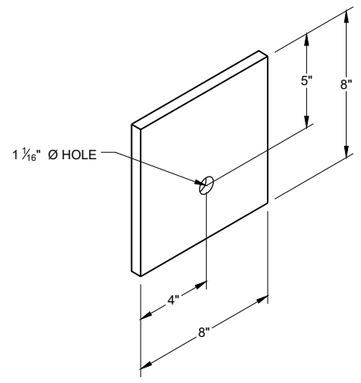
GENERIC GROUND STRUT ⑨ Ⓔ

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
①	UPPER POST NO. 1 6" X 6" TUBE
②	LOWER POST NO. 1
③	WOOD CRT
④	WOOD BLOCKOUT
⑤	PIPE SLEEVE
⑥	BEARING PLATE
⑦	BCT CABLE ASSEMBLY
⑧	ANCHOR CABLE BOX
⑨	GROUND STRUT
⑩	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
⑪	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
⑫	IMPACT HEAD
⑬	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
⑭	SOIL PLATE
⑮	UPPER POST NO. 2
⑯	LOWER POST NO. 2



GENERIC ANCHOR CABLE BOX ⑧ Ⓔ



BEARING PLATE ⑥ Ⓔ

6

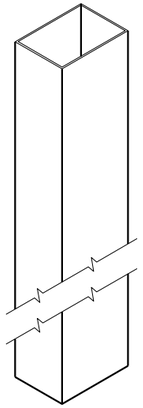
6

SDD 14B45 - 04b

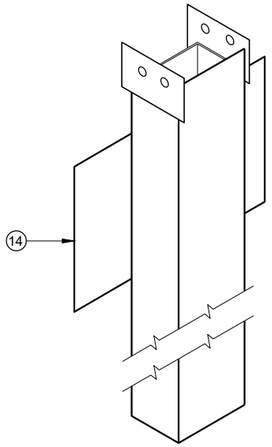
SDD 14B45 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

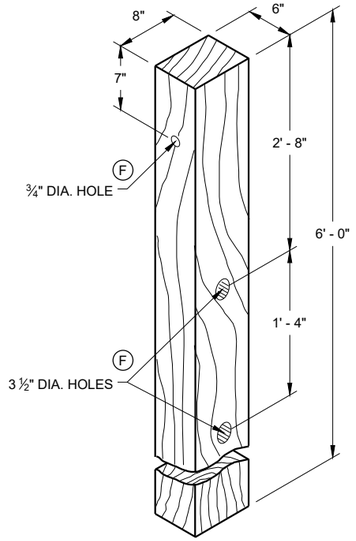
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



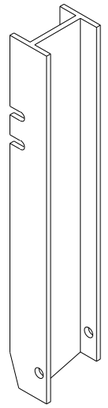
UPPER POST NO. 1 (1) (E)



LOWER POST NO. 1 (2) (E)



WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



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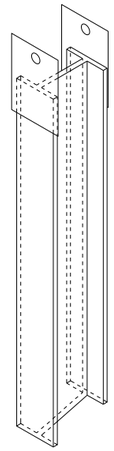
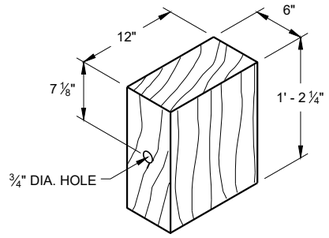
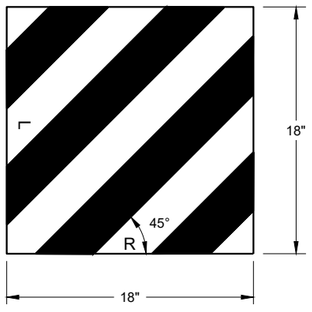


LOWER POST NO. 2 (16) (E)

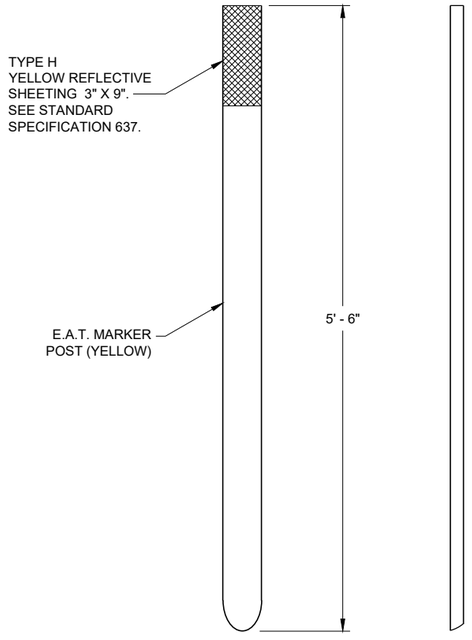


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



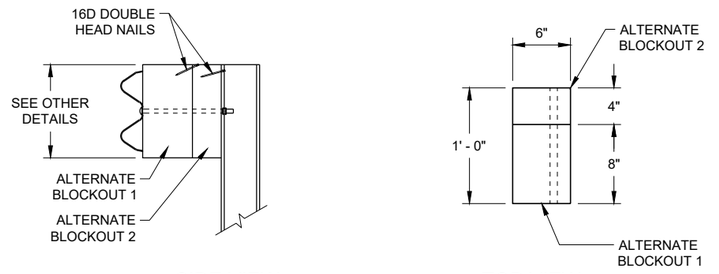
W5 - 59

REFLECTIVE SHEETING DETAIL (E)



FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

635

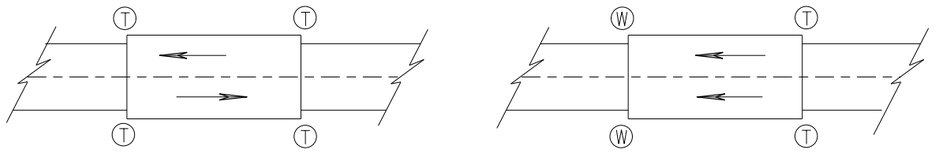
FHWA

6

SDD 14B44 - 04c

6

SDD 14B44 - 04c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

(T) THRIE BEAM CONNECTION

(W) W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

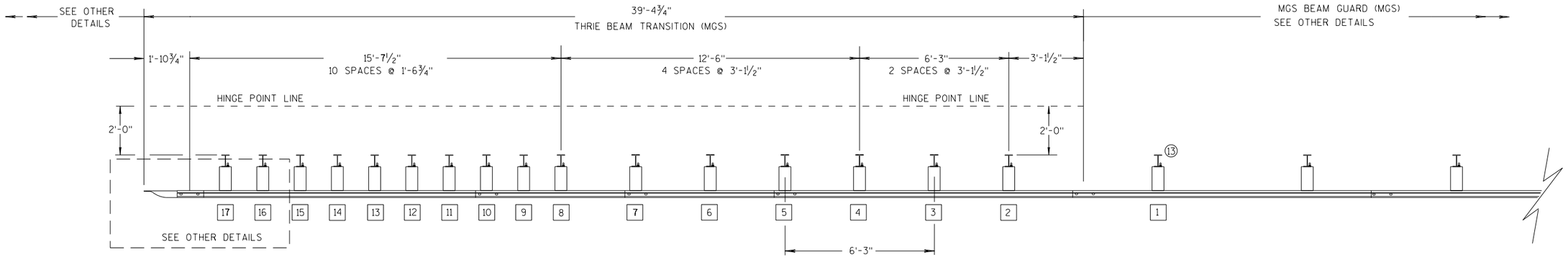
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

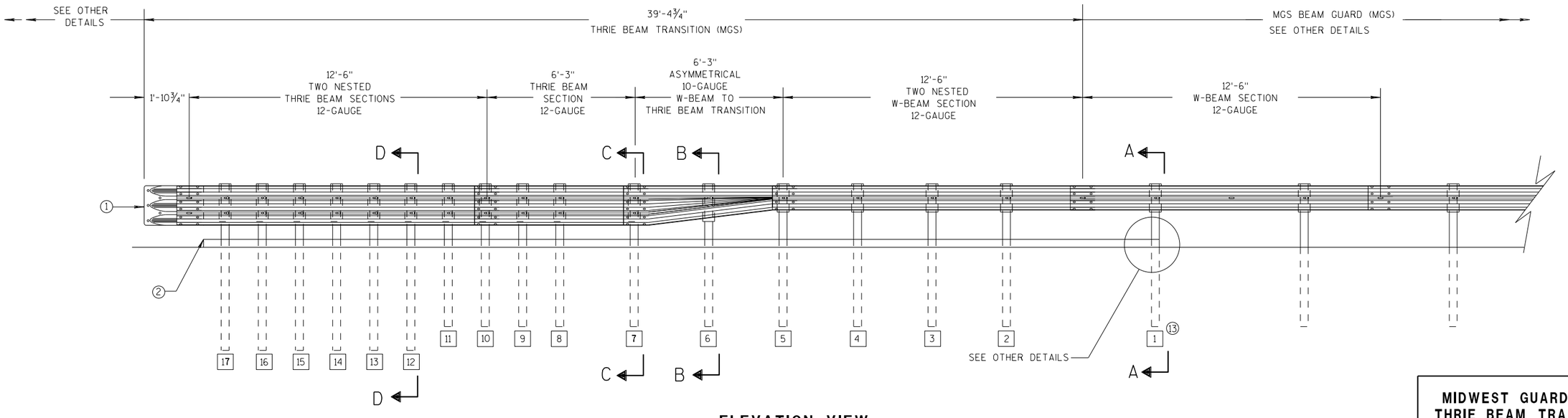
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD14B42



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF 636

6

S.D.D. 14 B 45-5a

6

S.D.D. 14 B 45-5a

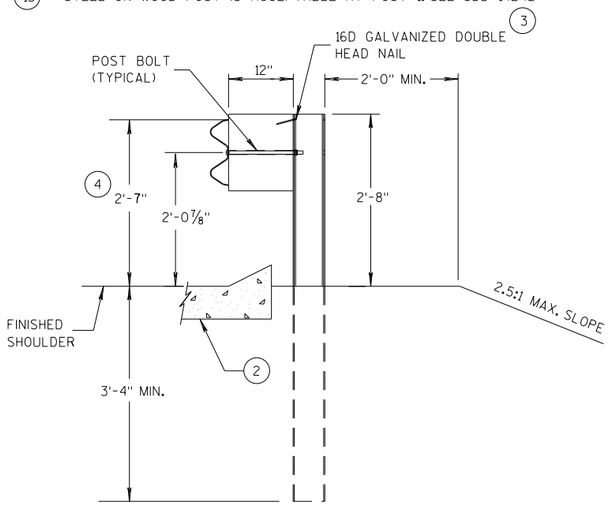
GENERAL NOTES

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

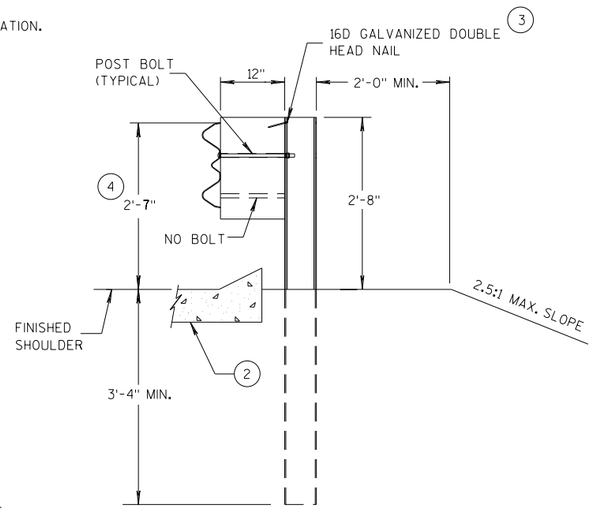
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42



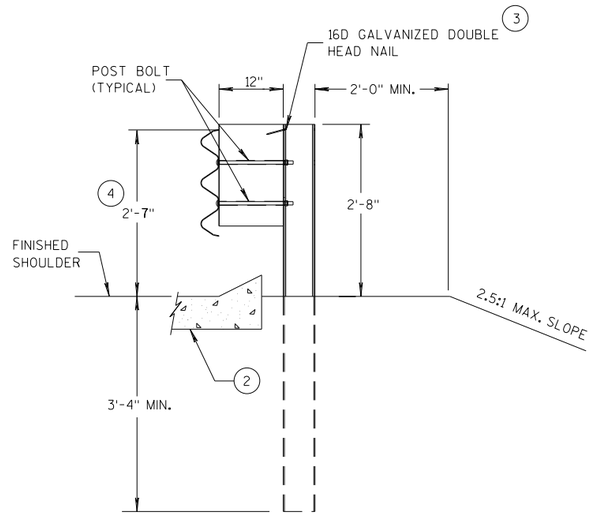
SECTION A-A (13)

POSTS 1-5



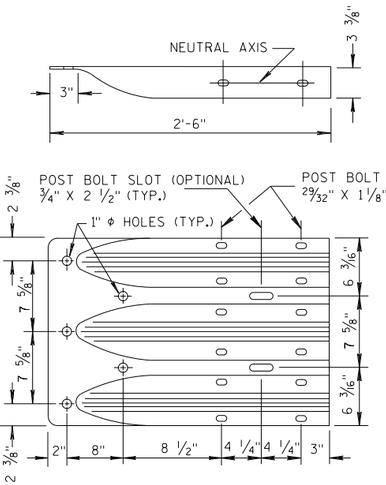
SECTION B-B

POST 6

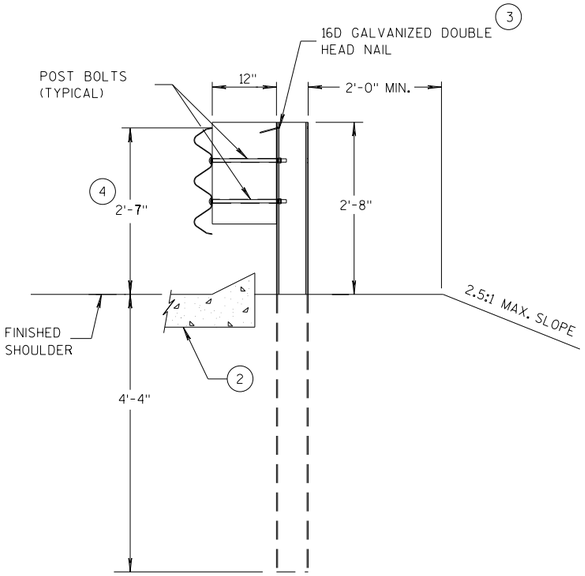


SECTION C-C

POSTS 7-11

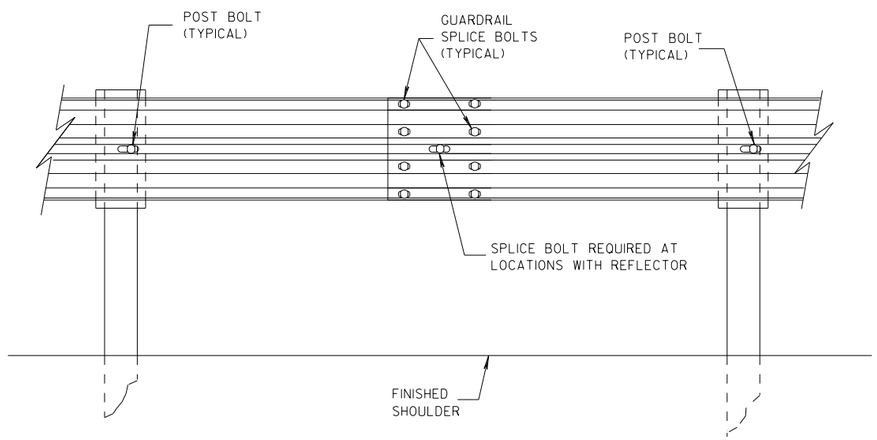


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-17



SPLICE DETAIL

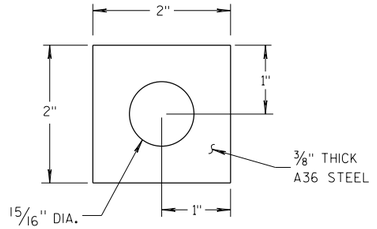
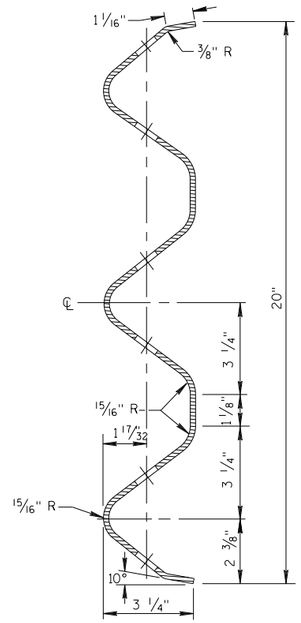


PLATE WASHER DETAIL

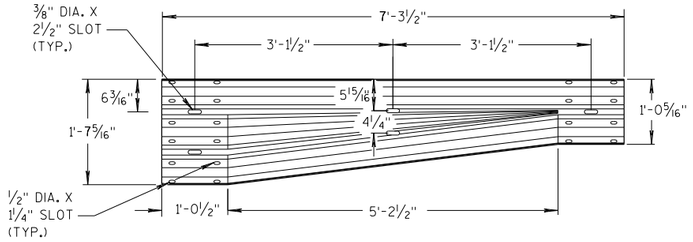


SECTION THRU THRIE BEAM RAIL ELEMENT

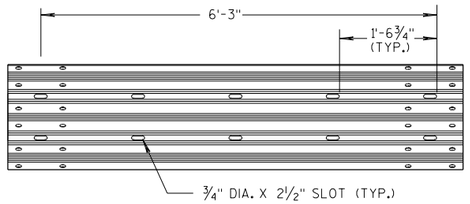
MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF

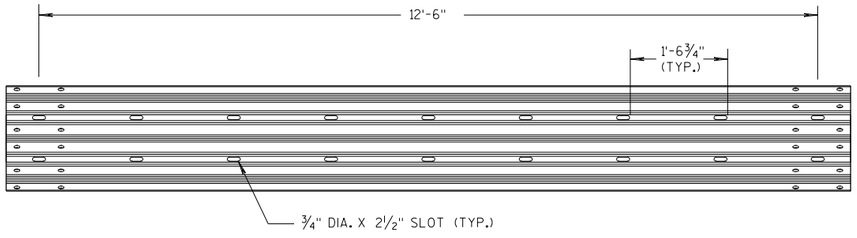
6
S.D.D. 14 B 45-5b



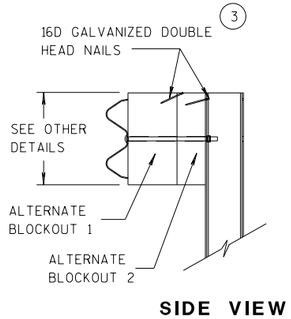
W-BEAM TO THRIE BEAM TRANSITION SECTION



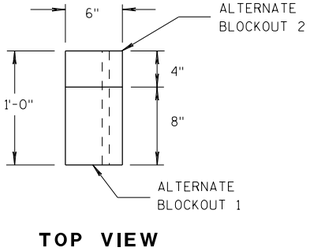
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

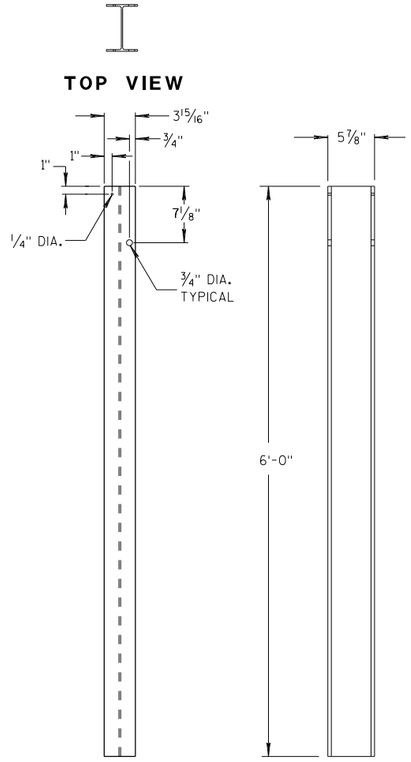


SIDE VIEW



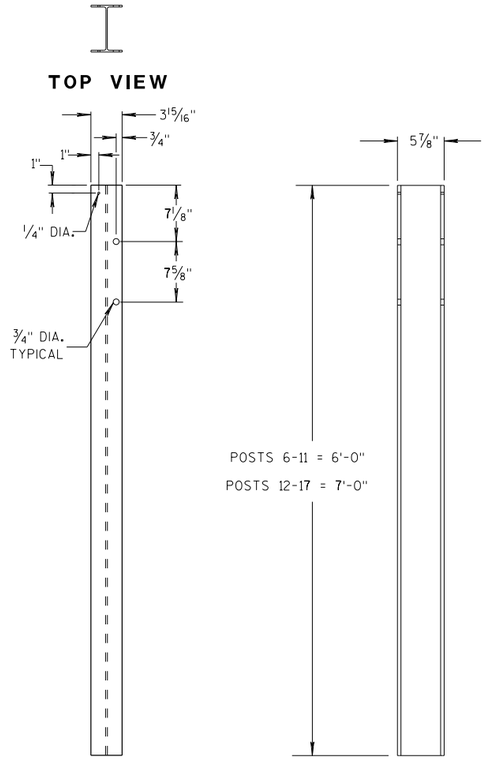
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



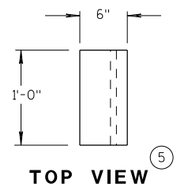
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

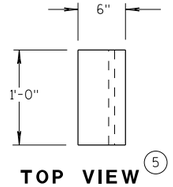


FRONT VIEW SIDE VIEW

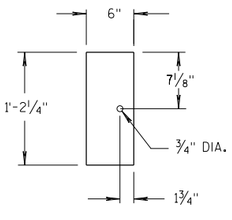
STEEL POSTS 6-17



TOP VIEW (5)

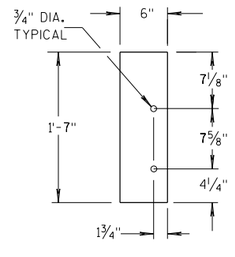


TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

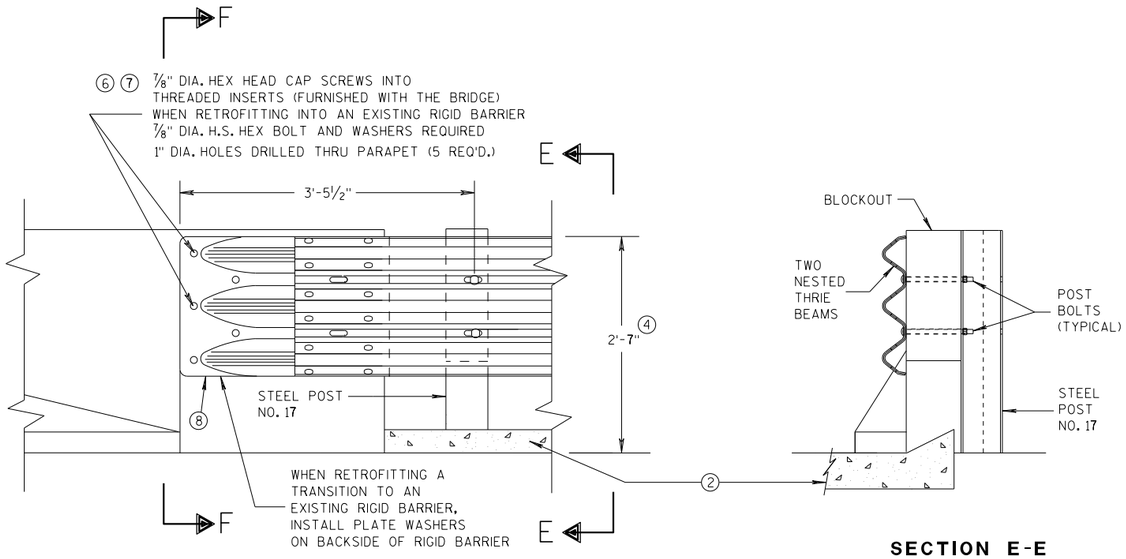
(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF 638

6
S.D.D. 14 B 45-5c



FRONT VIEW

SECTION E-E

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

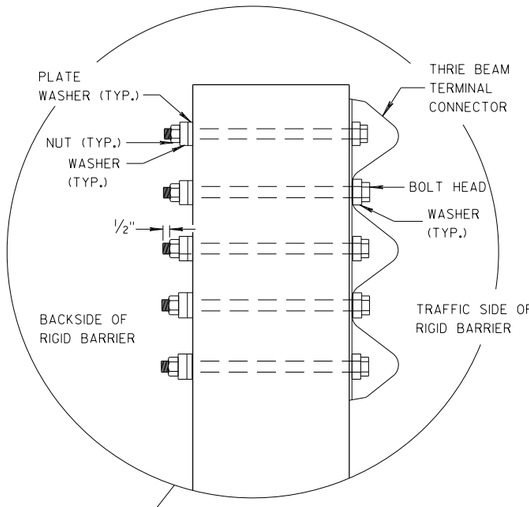
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

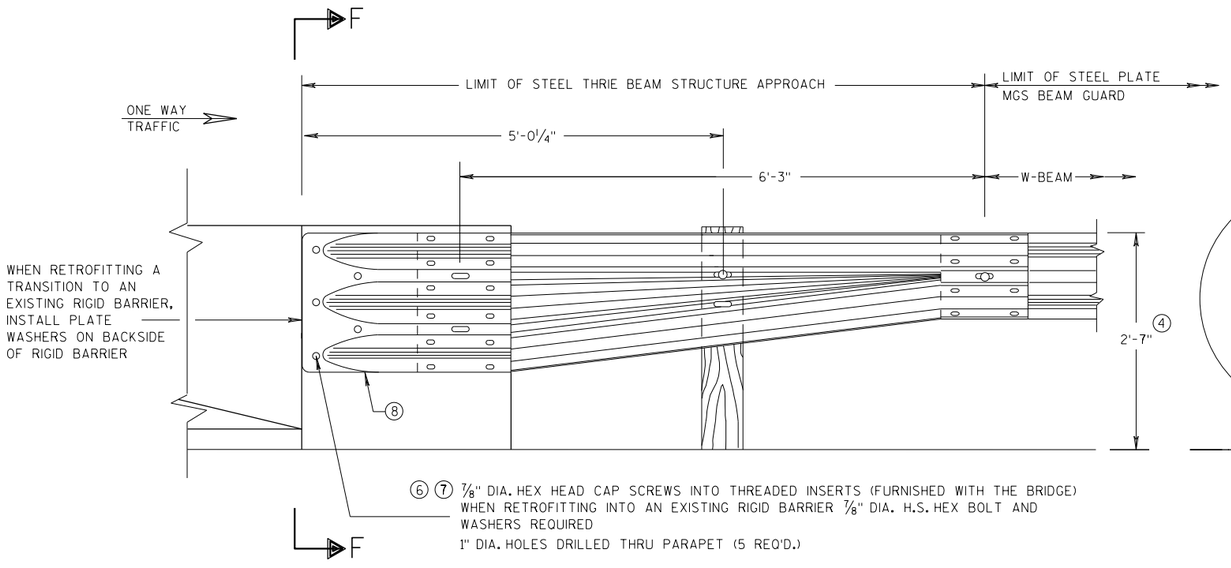
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

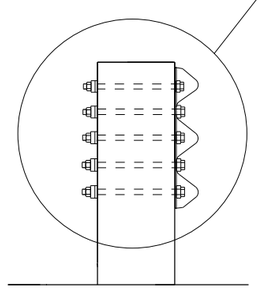
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

⑧ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

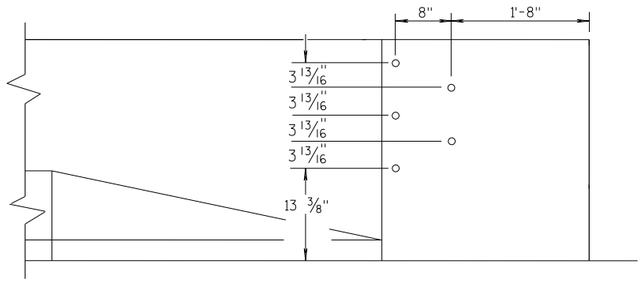




FRONT VIEW



SECTION F-F



DRILL HOLE LOCATION

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

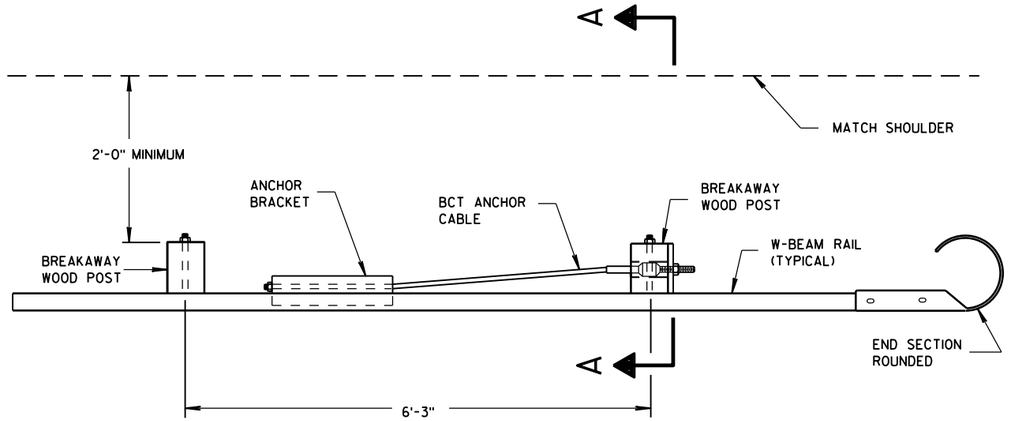
MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

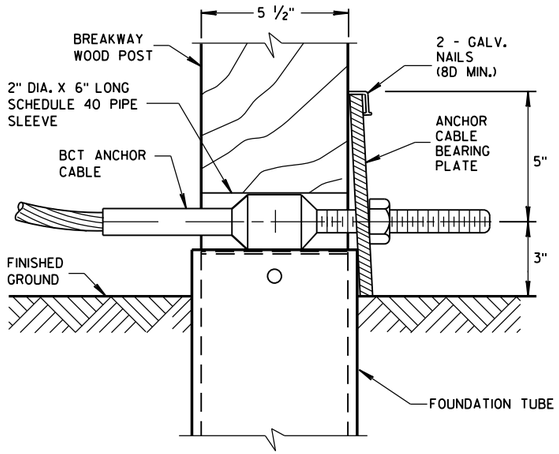
APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS D UNIT SUPERVIS
NT
FHWA

6

S.D.D. 14 B 45-5d



PLAN VIEW



DETAIL A

POST NO. 1
GROUNG STRUT NOT SHOWN FOR CLARITY.

GENERAL NOTES

SEE SDD 14 B 42 FOR MORE INFORMATION.

END SECTION BOLTS AND NUTS HAVE THE SAME MATERIAL REQUIREMENTS AS SPLICE BOLTS.

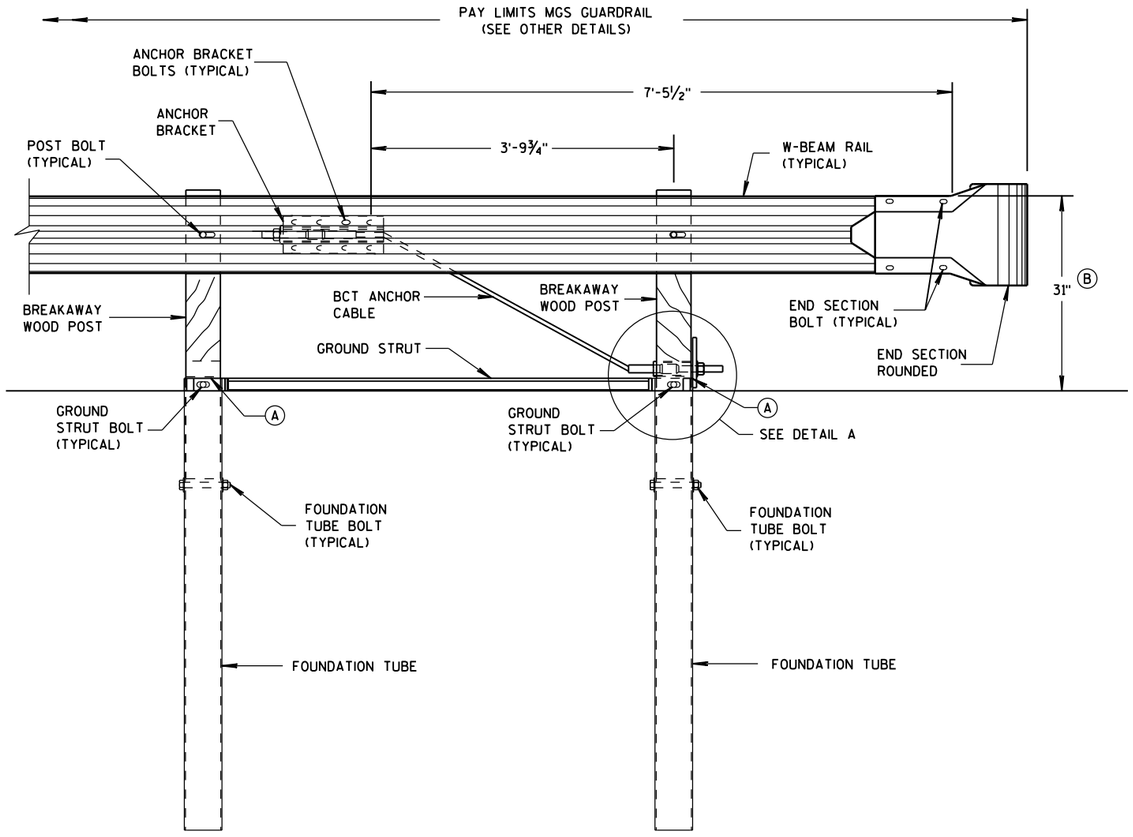
FOUNDATION TUBE BOLTS ARE ⅞" DIAMETER ASTM A307 HEX HEAD BOLT. FOUNDATION TUBE BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 ⅞" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

ANCHOR BRACKET AND GROUND STRUT BOLTS ARE A ⅝" DIAMETER ASTM A307 HEX HEAD BOLT. ANCHOR BRACKET BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 ⅝" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

W-BEAM END SECTION ROUNDED HAS THE SAME MATERIAL PROPERTIES AS STANDARD STEEL RAIL.

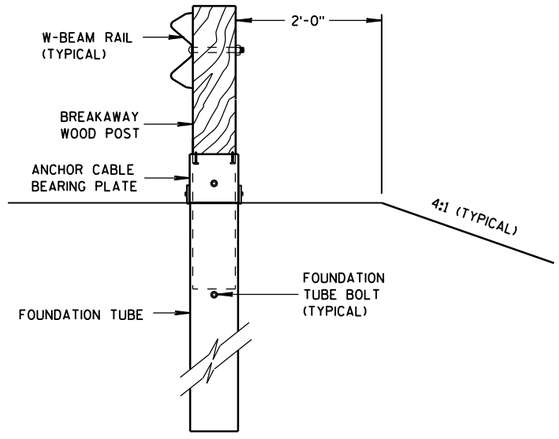
(A) TOP OF FOUNDATION TUBE SHALL BE NO MORE THAN 3" ABOVE FINISHED GROUND.

(B) FOR NEW CONSTRUCTION TOP OF RAIL IS 31" ± 1".
FOR EXISTING INSTALLATIONS TOP OF RAIL IS BETWEEN 27¾" TO 32" ± 1".

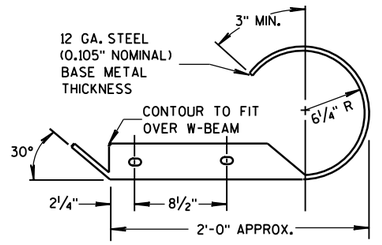


FRONT VIEW

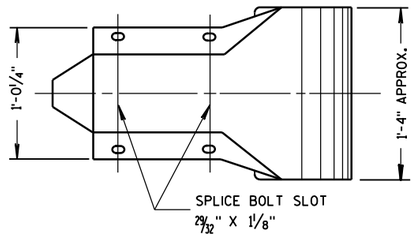
END RAIL DETAIL



SECTION A-A



PLAN VIEW



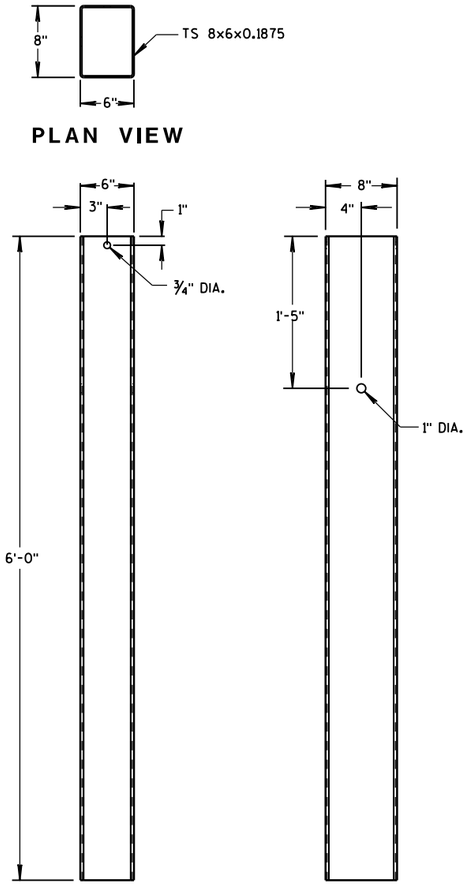
FRONT VIEW

W BEAM END SECTION ROUNDED

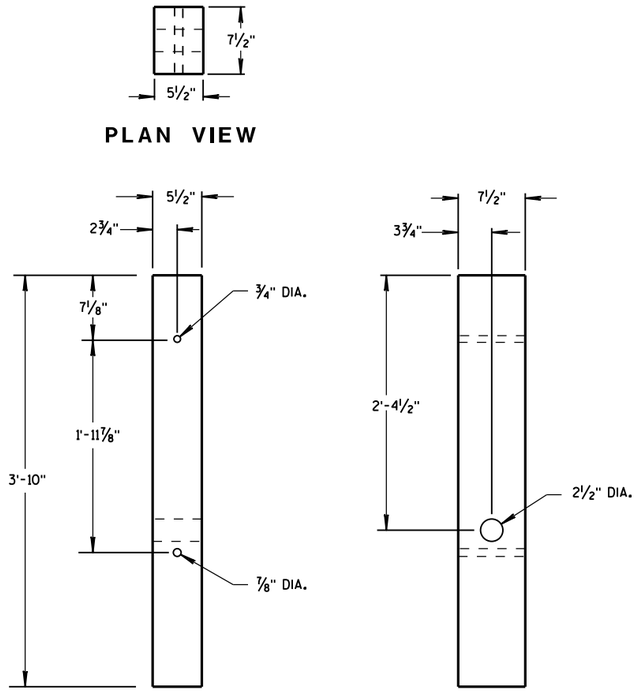
MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6
S.D.D. 14 B 47-2a



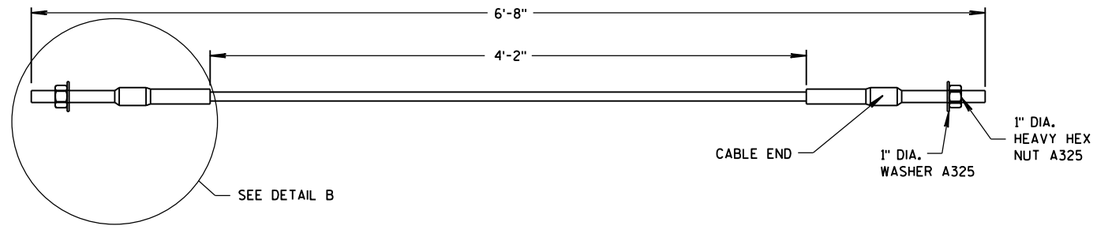
FOUNDATION TUBE



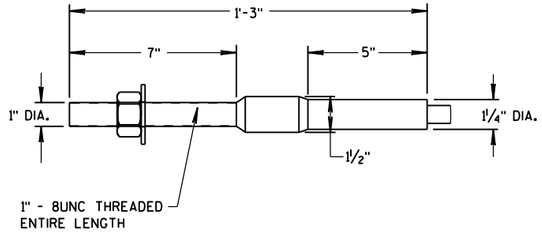
BREAKAWAY WOOD POST

GENERAL NOTES

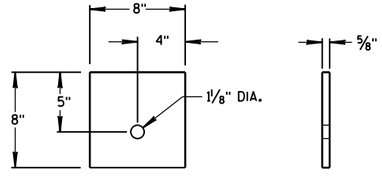
BCT ANCHOR CABLE IS A ¾" DIAMETER 6X19 IWRC IPS GALVANIZED WIRE ROPE. THE SWAGED FITTINGS AND STUD ARE REQUIRED. END FITTING SHALL BE MACHINED FROM HOT-ROLLED CARBON STEEL CONFORMING TO ASTM A576 GRADE 1035 AND GALVANIZED ACCORDING TO ASTM A123. TREADED STUD SHALL CONFORM TO ASTM A325 OR SAE GRADE 5. MINIMUM BREAKING STRENGTH OF WIRE ROPE IS 43,000 LB. WIRE ROPE IS TO BE TAUT.



BCT ANCHOR CABLE



DETAIL B



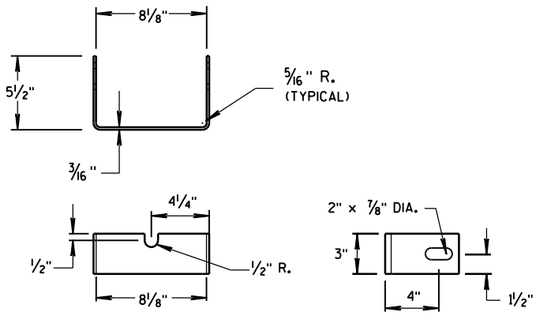
ANCHOR CABLE
BEARING PLATE

MIDWEST GUARDRAIL
SYSTEM (MGS) TYPE 2 TERMINAL

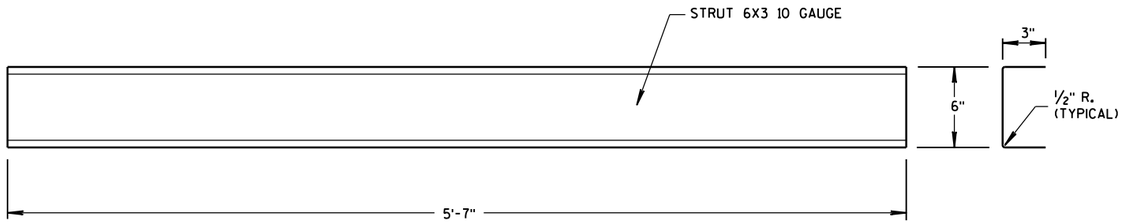
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

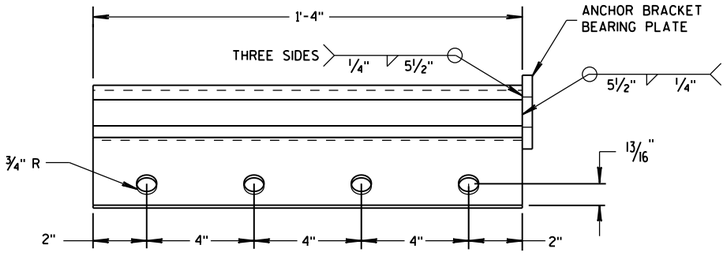
S.D.D. 14 B 47-2b

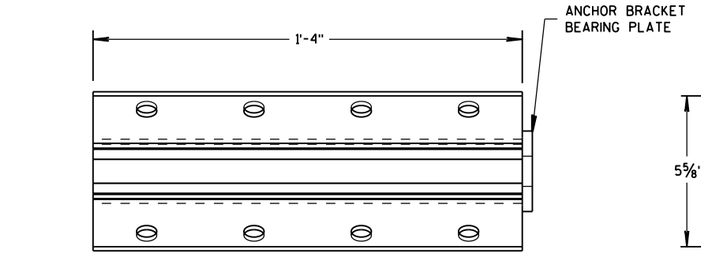


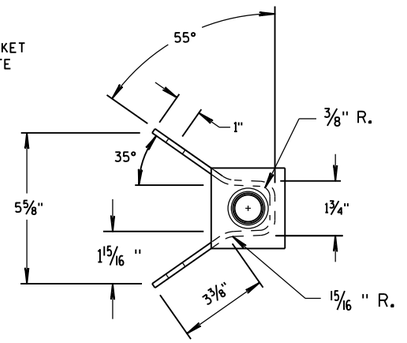
YOKE DETAIL



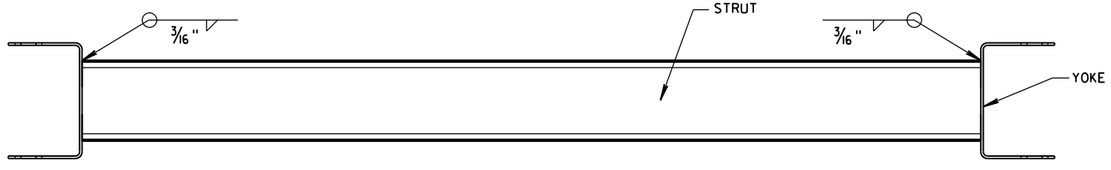
STRUT DETAIL



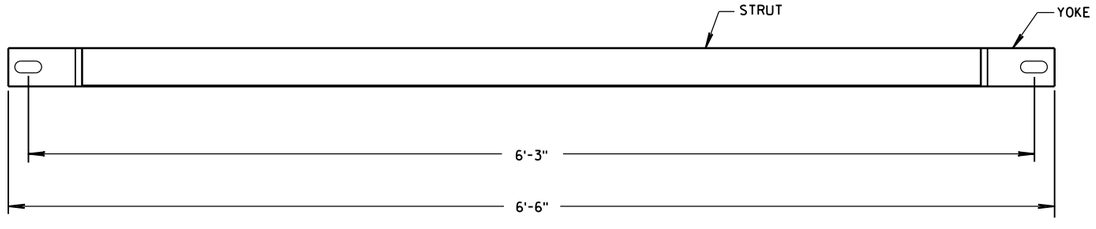




ANCHOR BRACKET

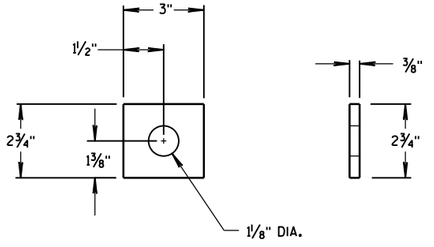


PLAN VIEW



FRONT VIEW

GROUND STRUT DETAIL



ANCHOR BRACKET BEARING PLATE

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

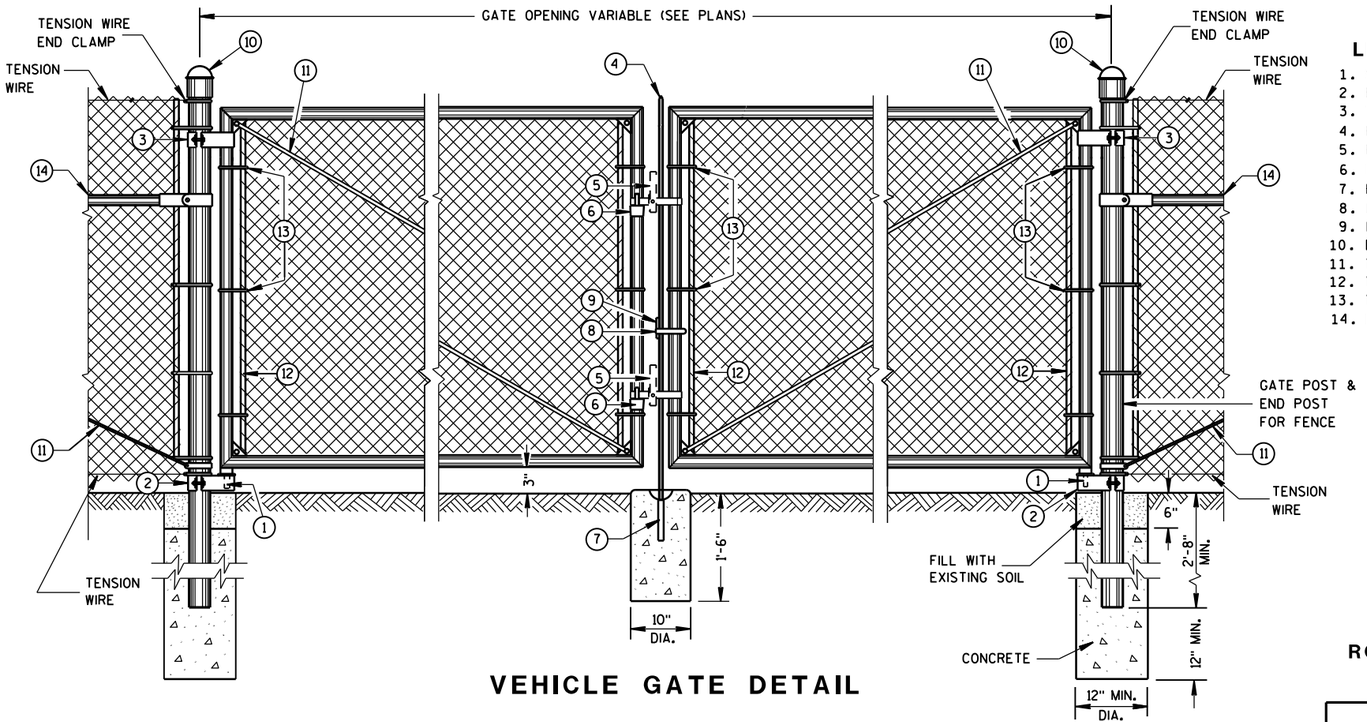
642

6

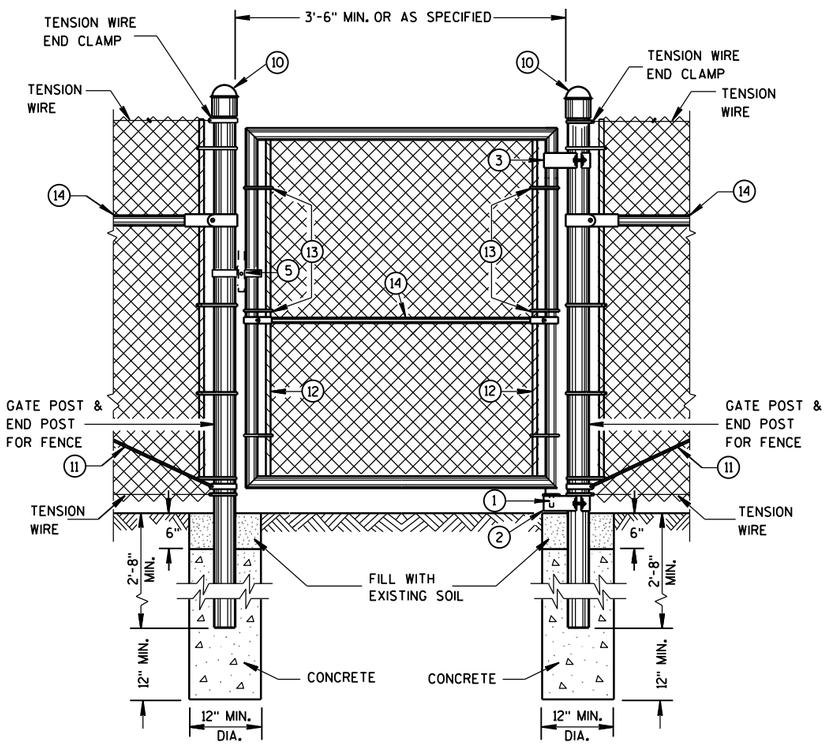
S.D.D. 14 B 47-2c

6

S.D.D. 14 B 47-2c



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

LEGEND

1. STRAIGHT PLUG
2. BOTTOM HINGE
3. TOP HINGE
4. PLUNGER ROD
5. FULCRUM LATCH
6. FORK CATCH *
7. PLUNGER ROD CATCH
8. LOCK KEEPER GUIDE
9. LOCK KEEPER
10. DOME TOPS
11. TRUSS RODS
12. TENSION BAR
13. TENSION BANDS
14. BRACE RAIL

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

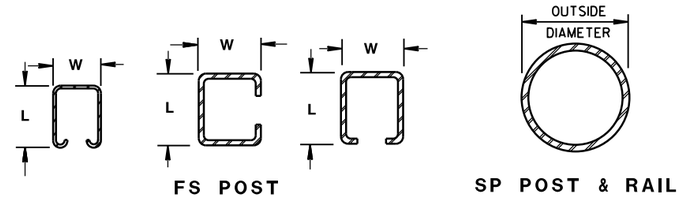
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.

USE TYPE 2, CLASS 3, MARCELLED/CRIMPED, TENSION WIRE PER ASTM A 817.



FS POST

SP POST & RAIL

CROSS SECTIONS OF POSTS AND RAILS

REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL POSTS **	LESS THAN OR EQUAL TO 6 FT.	SP3
	GREATER THAN OR EQUAL TO 6 FT.	SP4
LINE POSTS	LESS THAN OR EQUAL TO 6 FT.	SP2
	LESS THAN OR EQUAL TO 8 FT.	SP3
	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EQUAL TO 8 FT.	FS3

BRACE RAIL TYPES

USE		TYPE
BRACE RAIL		SP1 OR FS1

** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

ROLLED-FORMED STEEL FENCE POST (2.0 OZ./SQ. FT. COATING)

POST TYPE	LENGTH (L) INCH	WIDTH (W) INCH	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

REQUIRED POST SIZE FOR GATES

USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EQUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EQUAL TO 23 FT.	SP7

ROUND STEEL FENCE POST (1.8 OZ./SQ. FT. COATING)

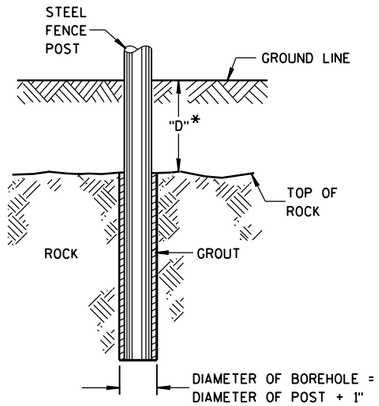
POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

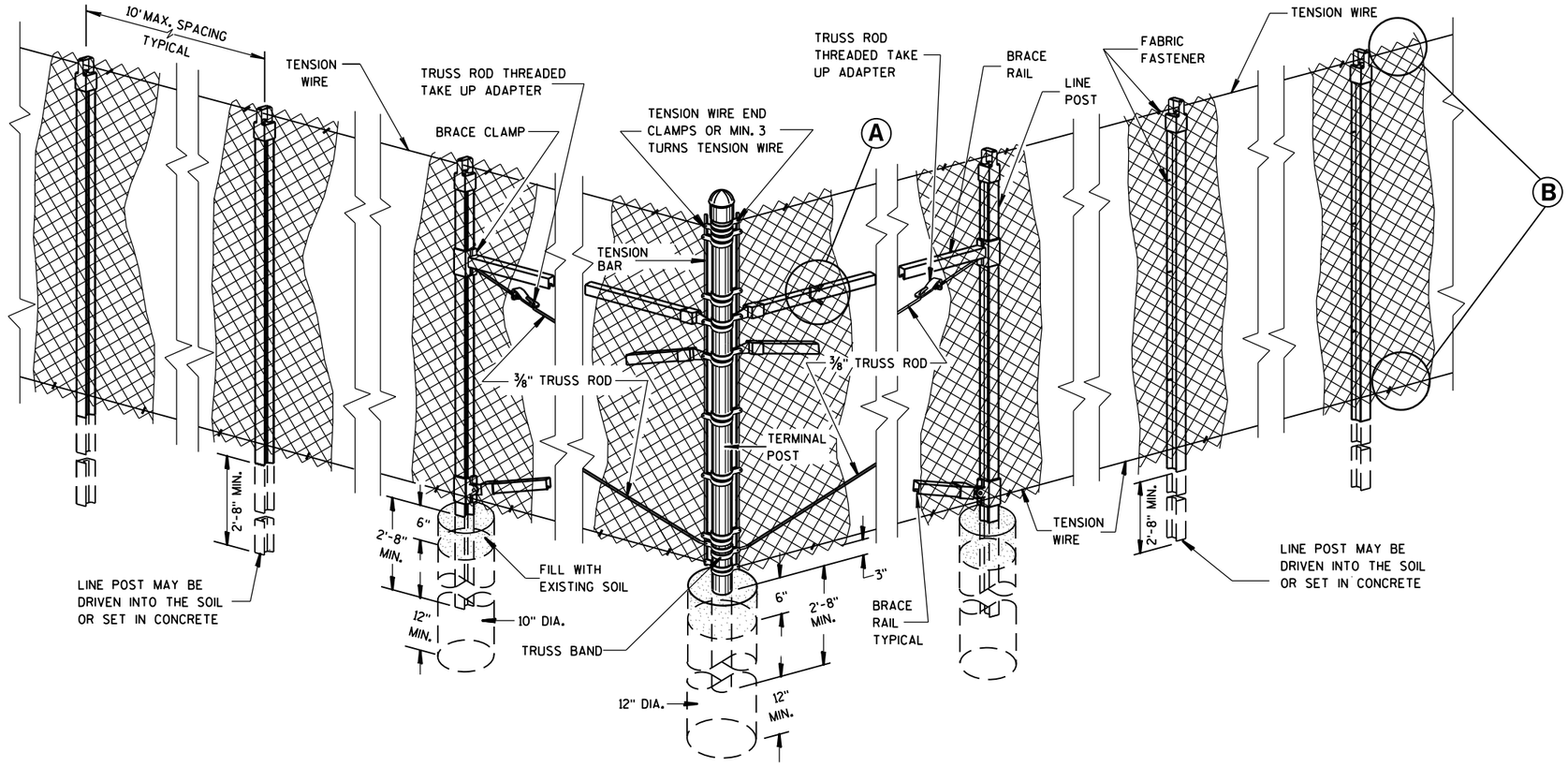
6

S.D.D. 15 B 3-15a

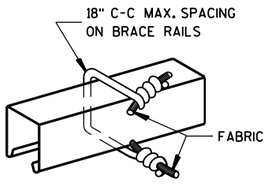


*IF "D" IS LESS THAN 2'-6", DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST



END, CORNER, ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS



BRACE RAIL

FABRIC FASTENER

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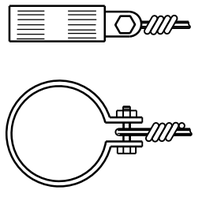
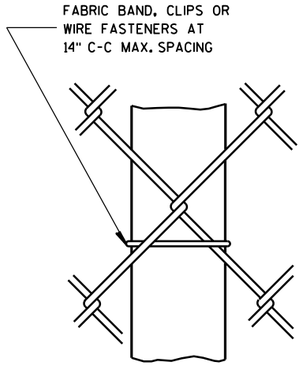


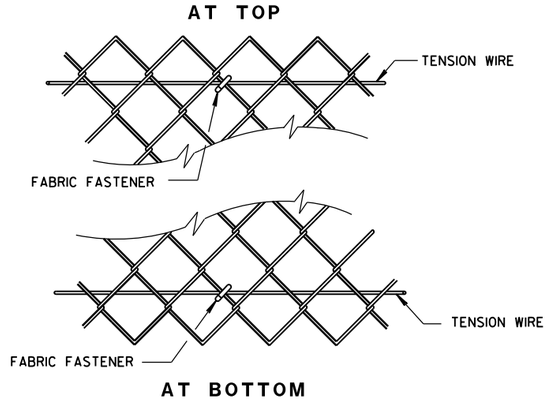
TENSION WIRE END CLAMP



LINE POST

FABRIC FASTENER

AT TOP



AT BOTTOM

SELVAGES

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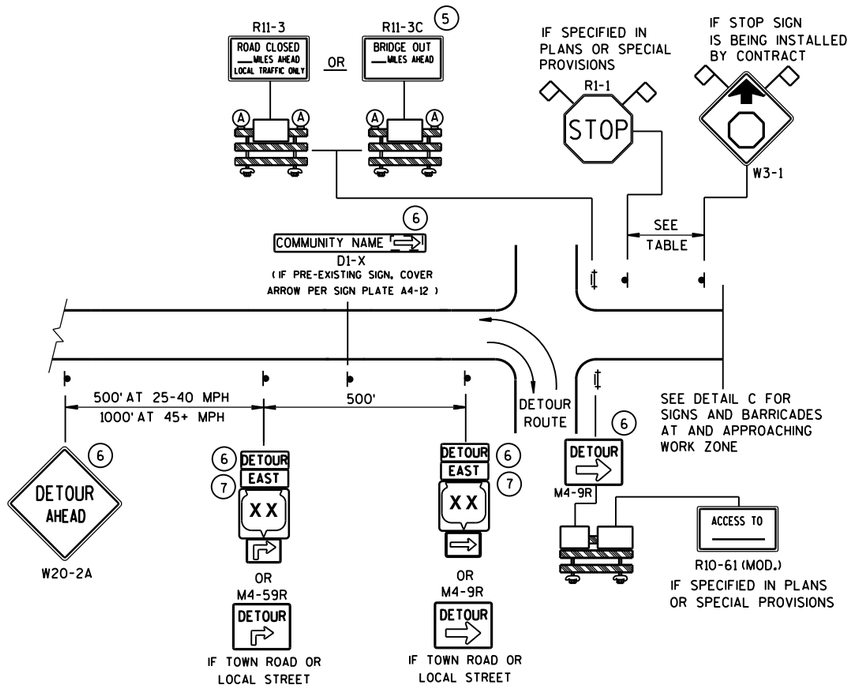
FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
FEB. 2015 DATE
FHWA
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

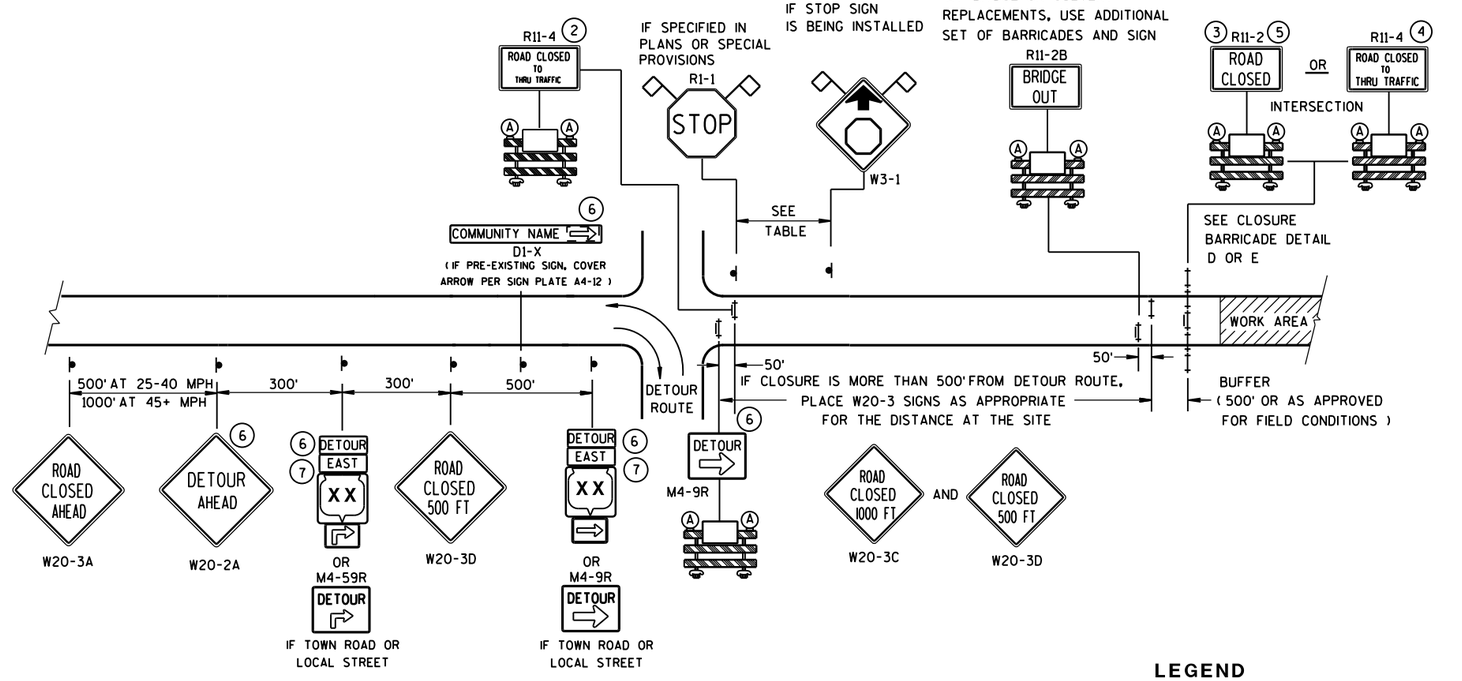
6

S.D.D. 15 B 3-15b



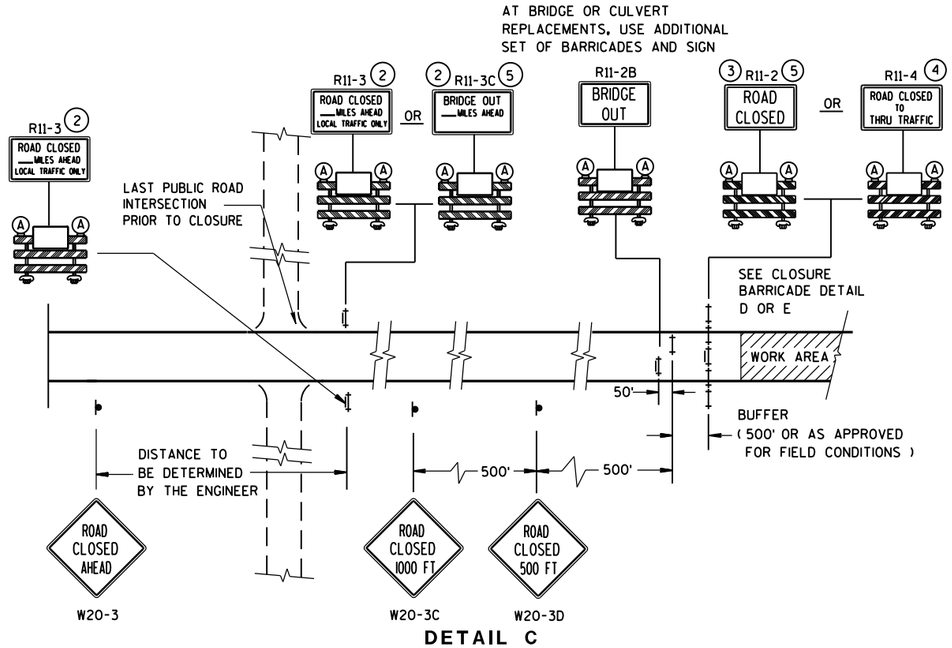
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "**b**" FOR GENERAL NOTES AND FOOTNOTES (1) THROUGH (7)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

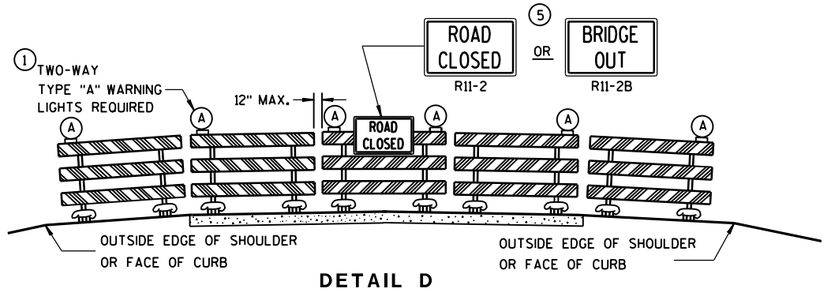
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

6

S.D.D. 15 C 2-6a

6

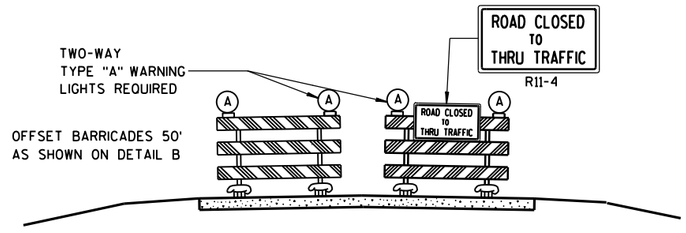
S.D.D. 15 C 2-6a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "**a**" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO SAFETY ENGI — FHWA

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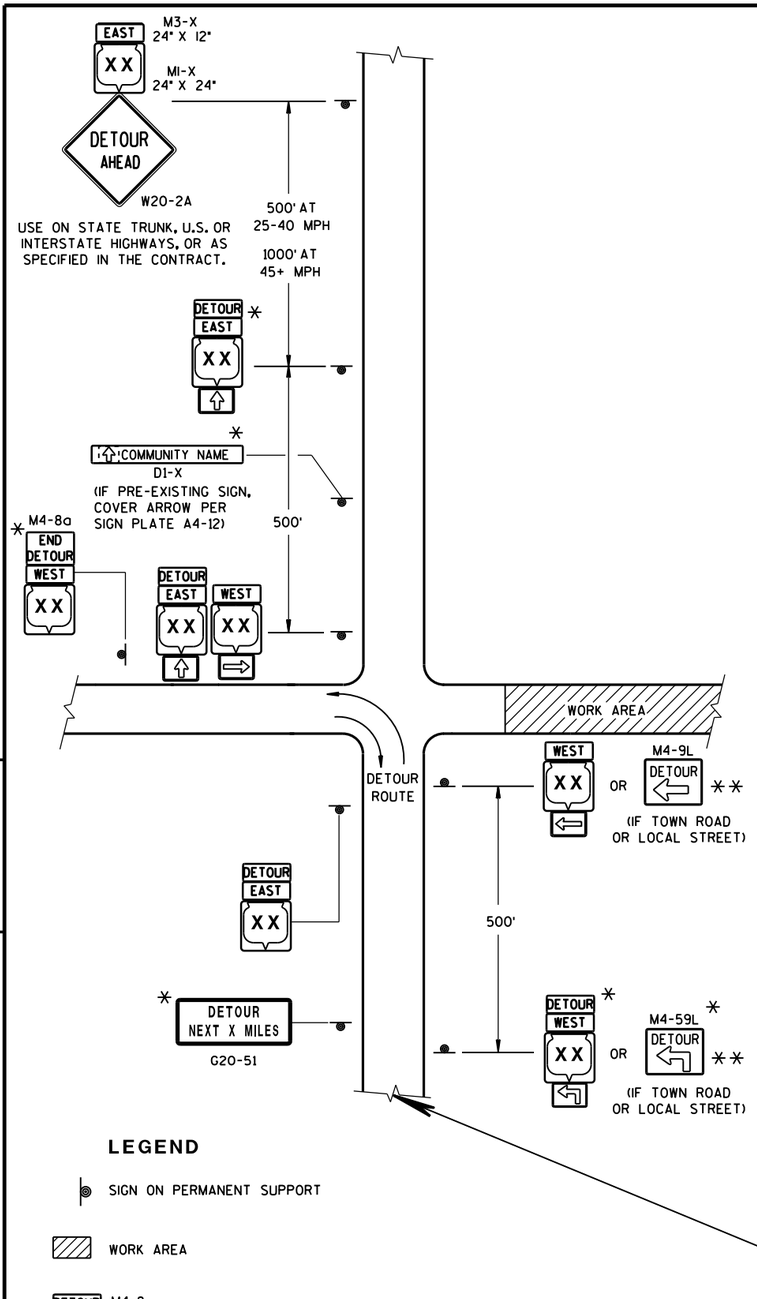
S.D.D. 15 C 2-6b

6

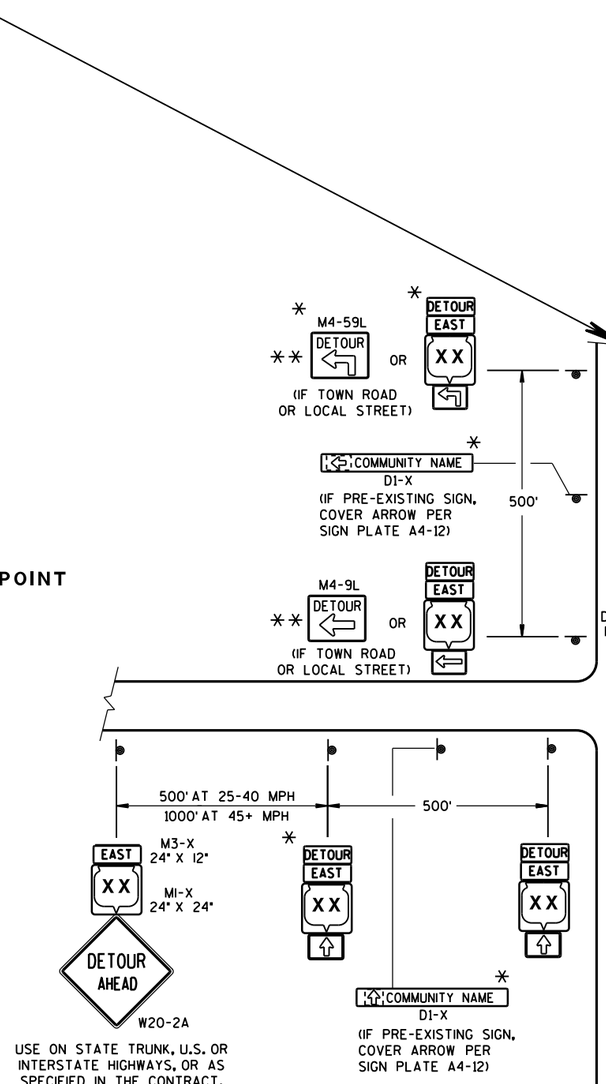
S.D.D. 15 C 2-6b

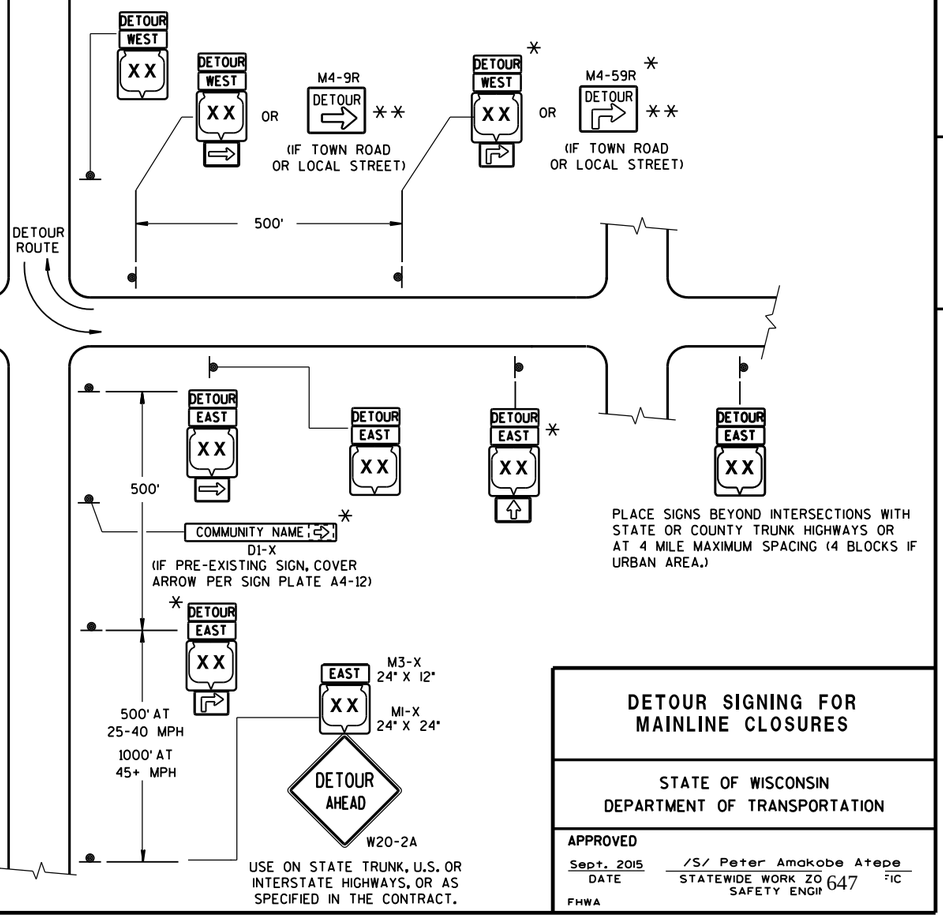


SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD 15C2-SHEET "a"

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

MATCH POINT





DETAIL F

DETOUR SIGNING

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 SHALL BE 48" X 48".
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

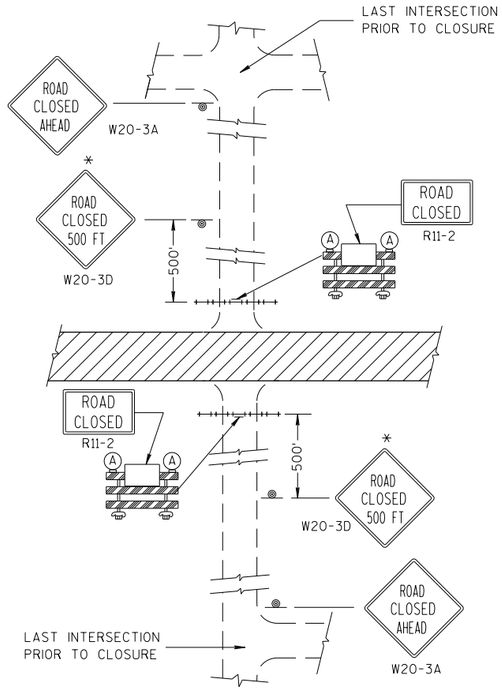
Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO SAFETY ENGI

FHWA

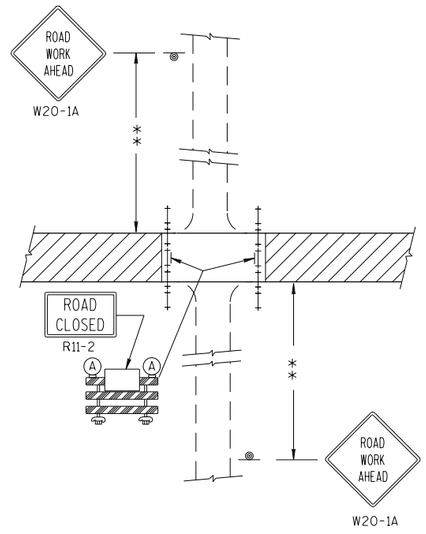
6

S.D.D. 15 C 2-6c



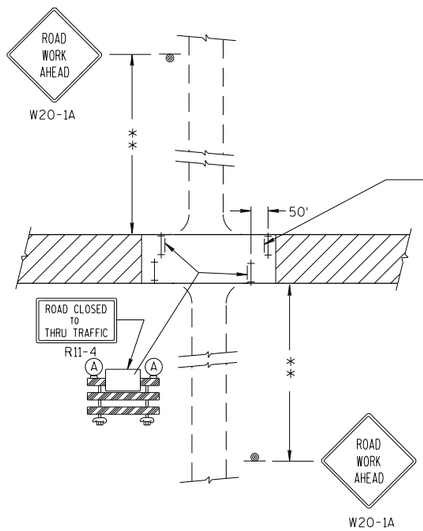
DETAIL 1

(NO ACCESS TO PROJECT)



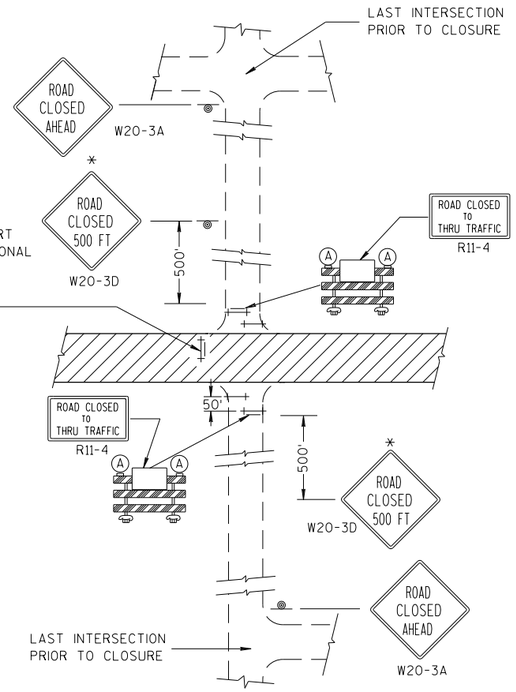
DETAIL 2

(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT).



DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR,
LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

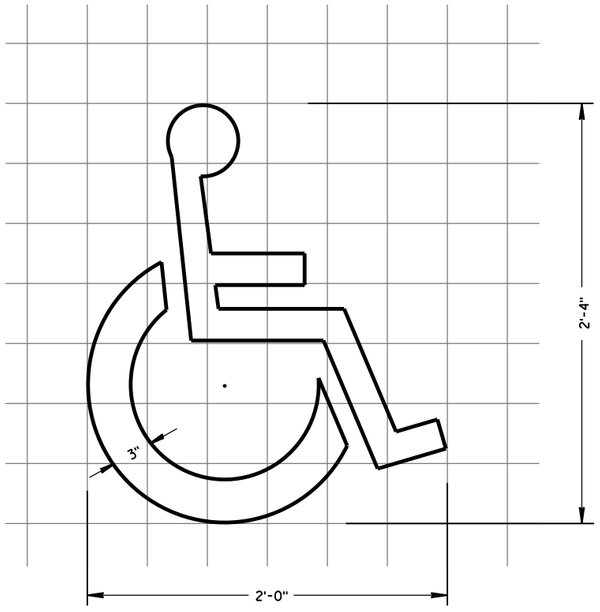
7/2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGI

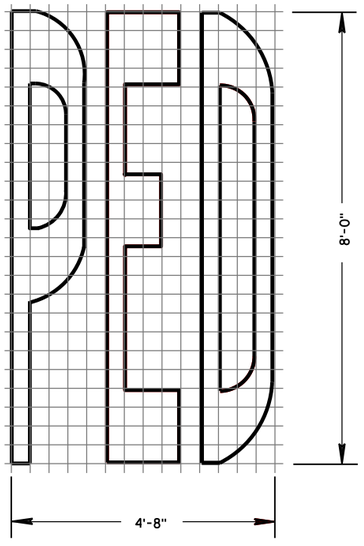
FHWA

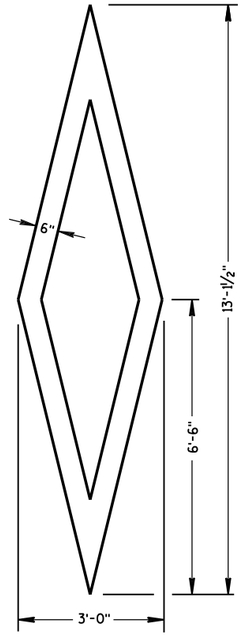
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



HANDICAP SYMBOL





PREFERENTIAL LANE SYMBOL

6

S.D.D. 15 C 7-14a

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MARK EER

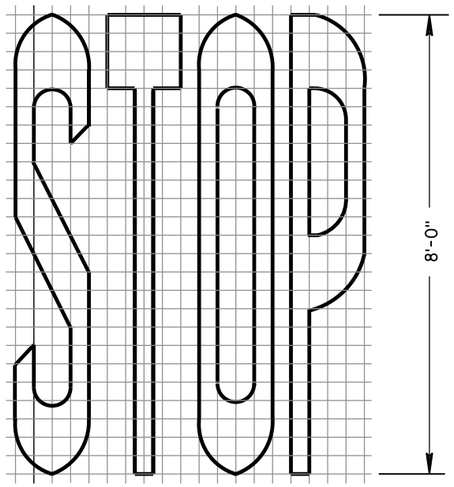
FHWA

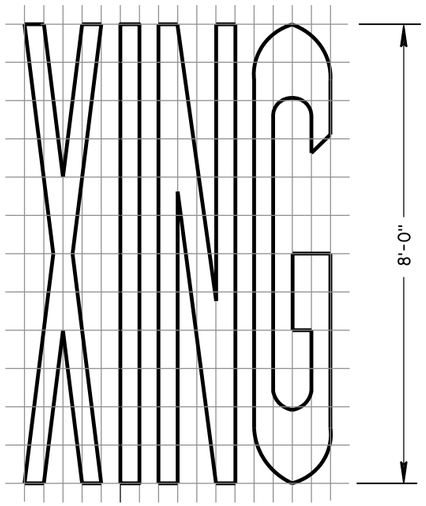
6

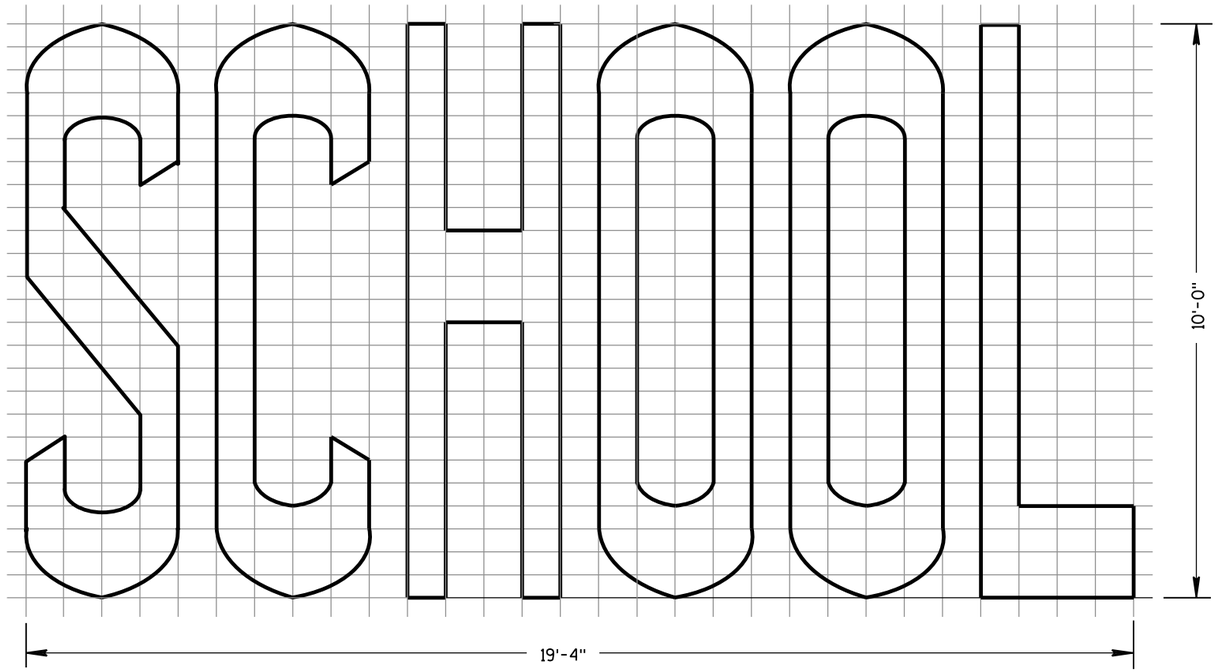
S.D.D. 15 C 7-14a

GENERAL NOTES

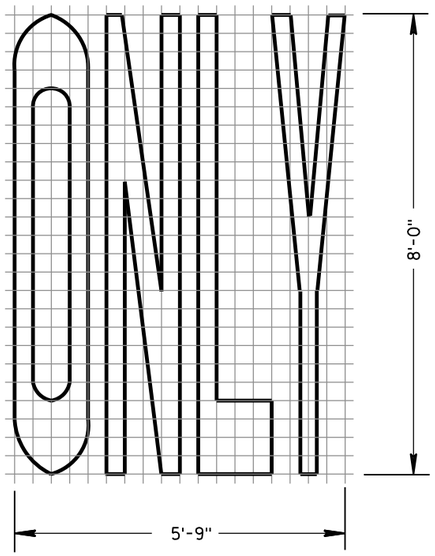
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

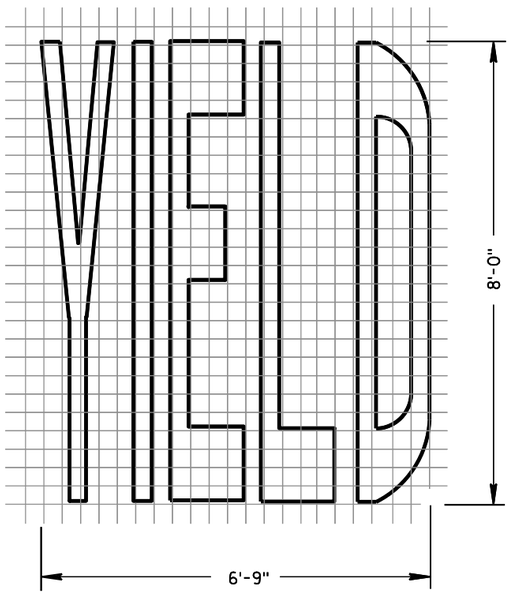


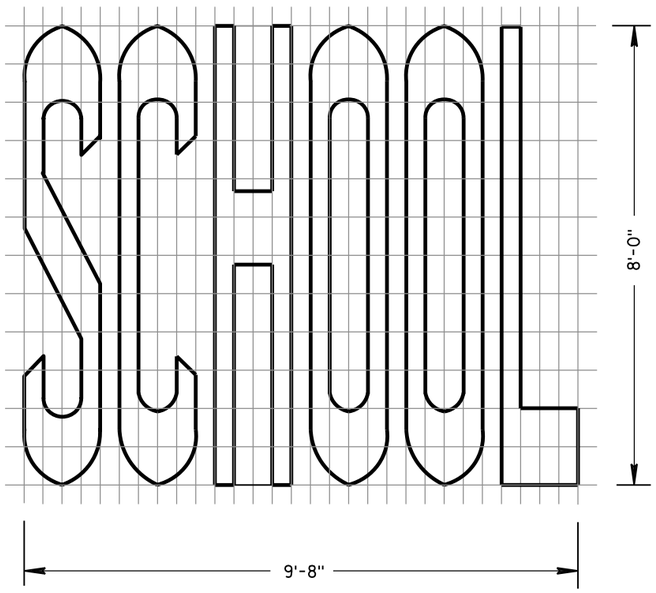




TWO-LANE







SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARK
650
EER
FHWA

6

S.D.D. 15 C 7-14b

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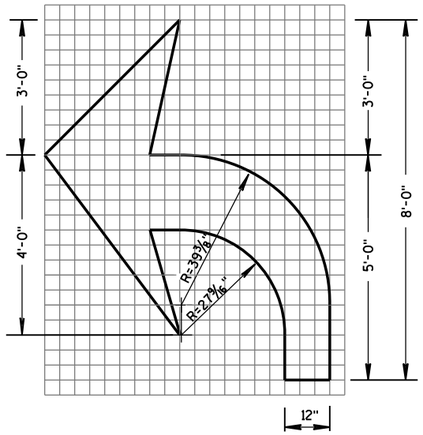
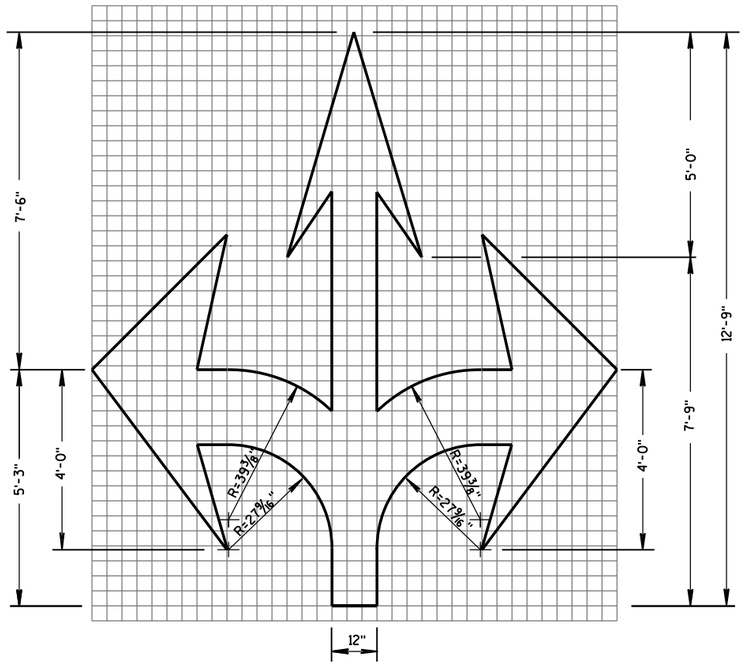
S.D.D. 15 C 7-14b

GENERAL NOTES

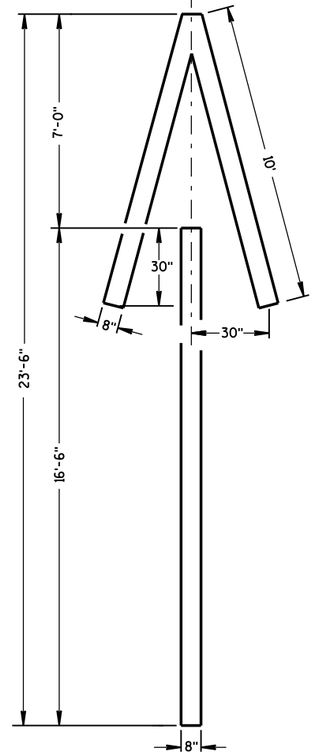
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



TYPE 2



TYPE 6



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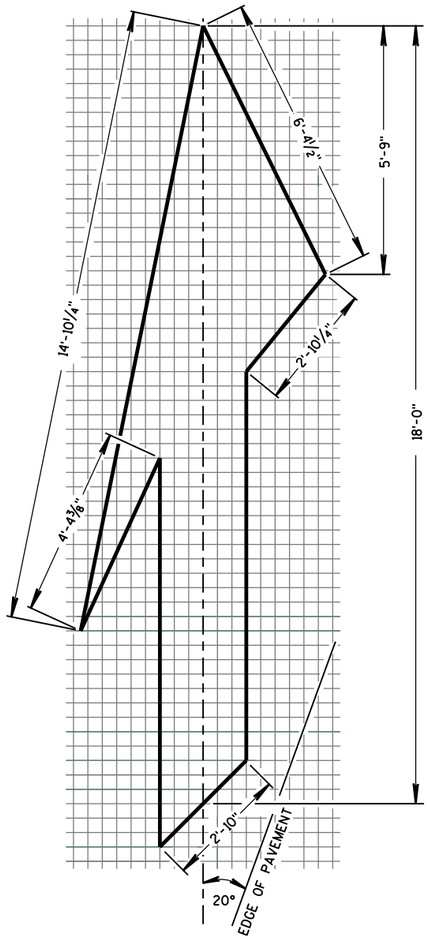
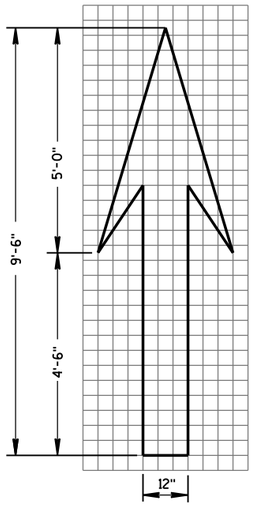
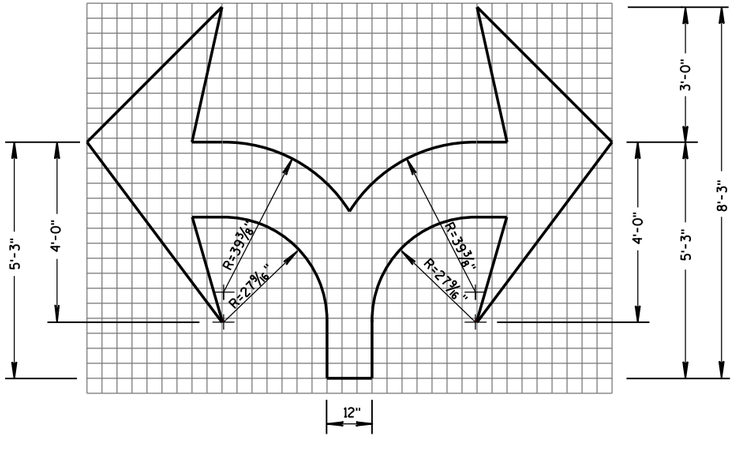


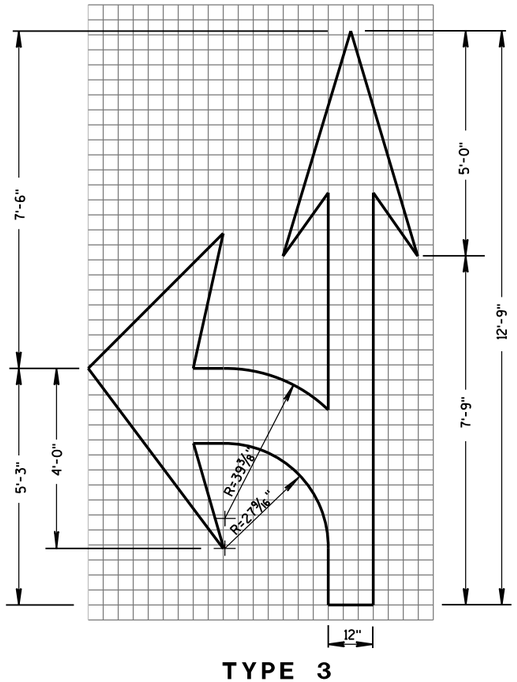
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MAR651 NEER
FHWA

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S.D.D. 15 C 7-14c

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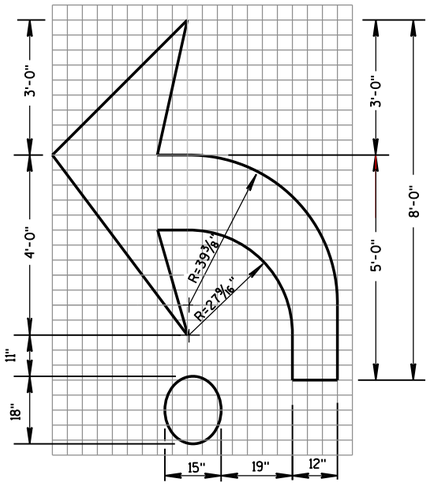
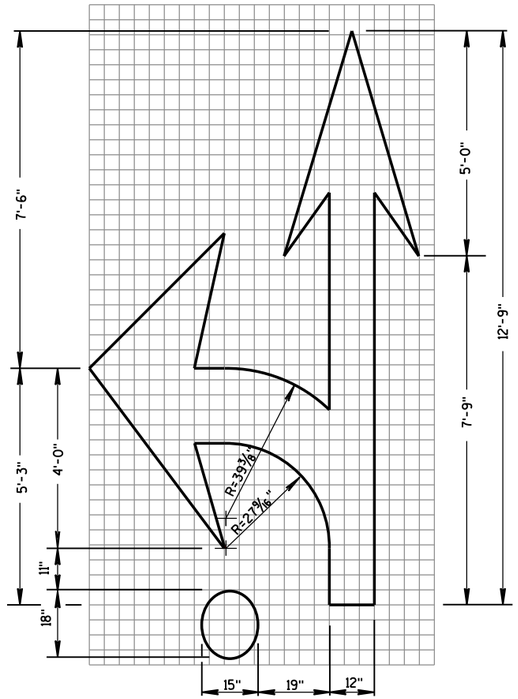
S.D.D. 15 C 7-14c

GENERAL NOTES

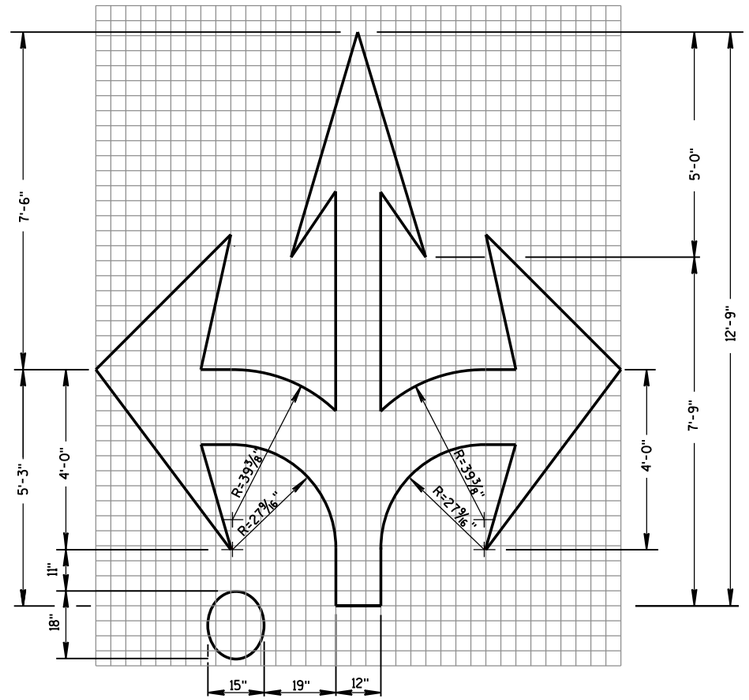
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



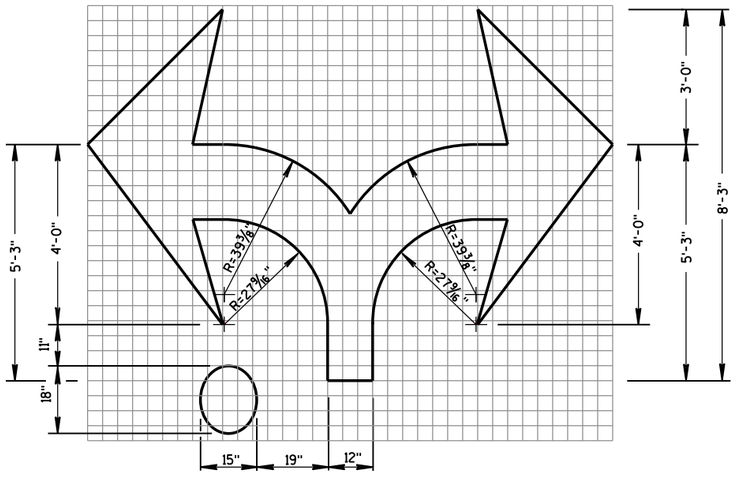
TYPE 2R



TYPE 3R



TYPE 6R



TYPE 7R

ROUNDABOUT ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAR NEER

FHWA

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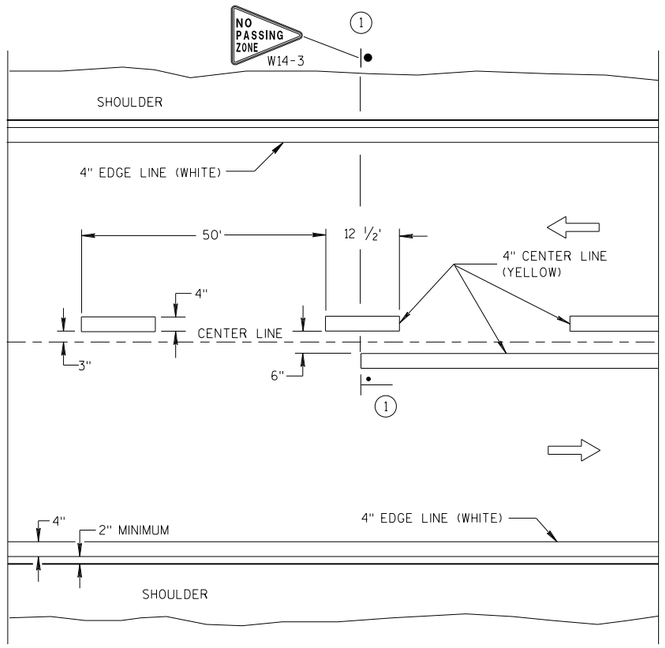
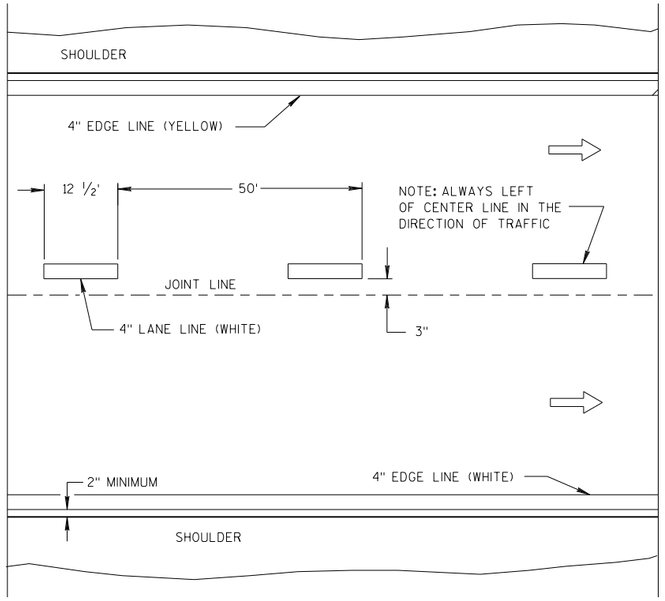
S.D.D. 15 C 7-14d



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

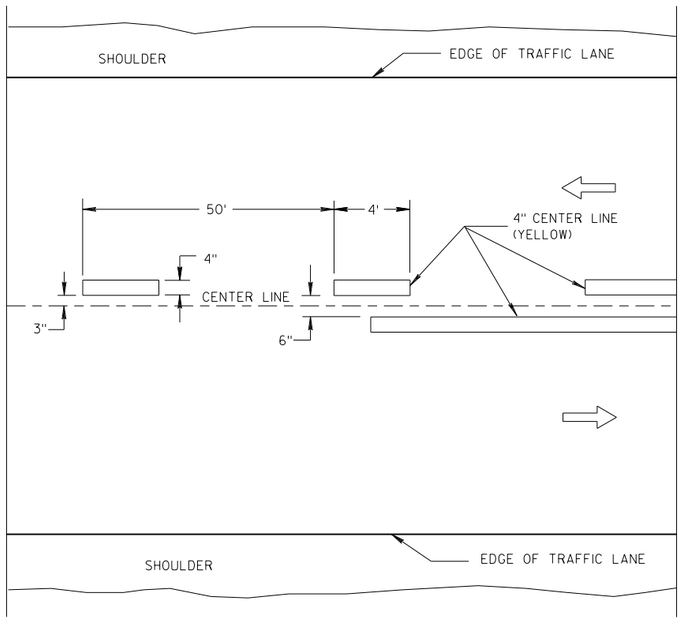
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

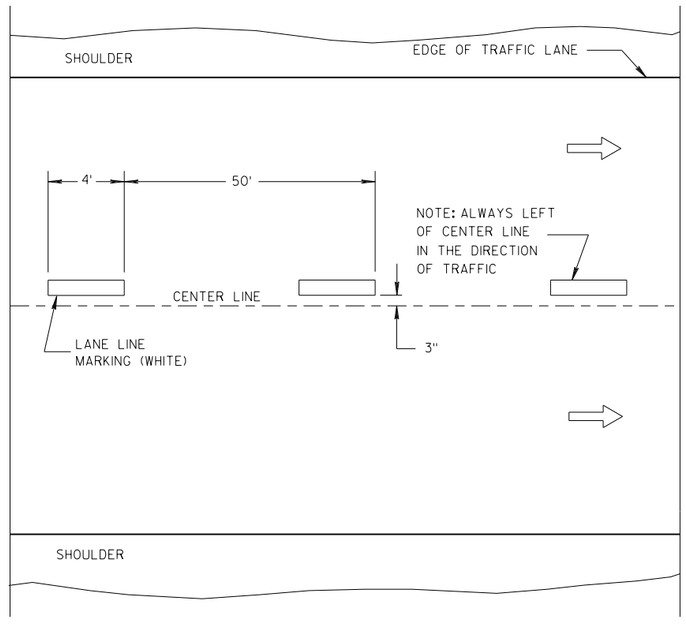
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018 DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER

FHWA

653

6

S.D.D. 15 C 8-19a

6

S.D.D. 15 C 8-19a

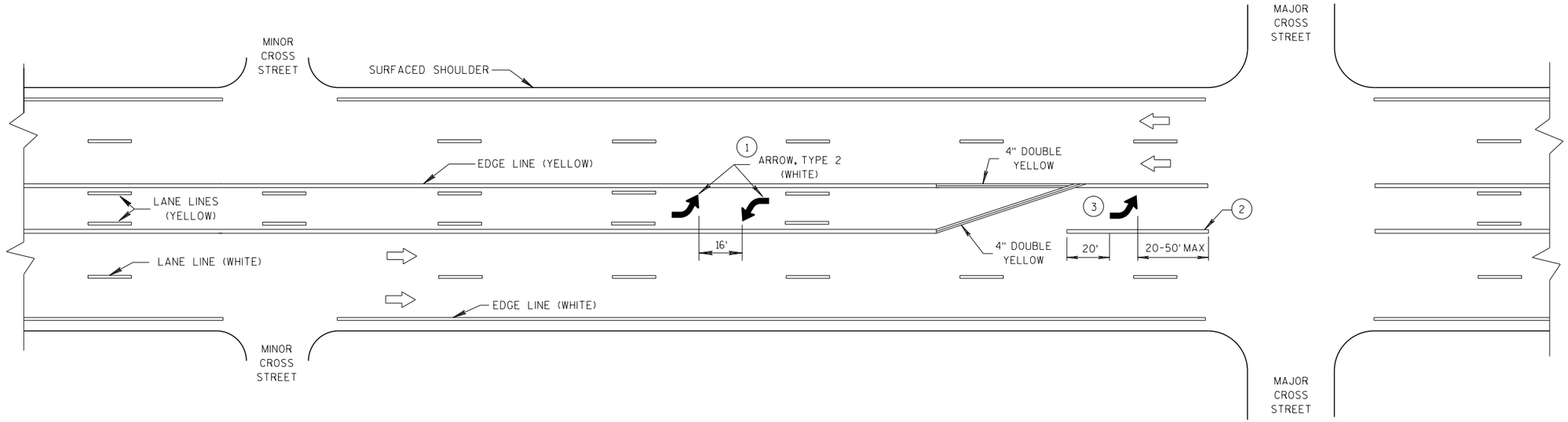
GENERAL NOTES

(1) A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

(2) 8" WHITE

(3) TURN BAY LENGTH OF LESS THAN 48'DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT

DIRECTION OF TRAFFIC



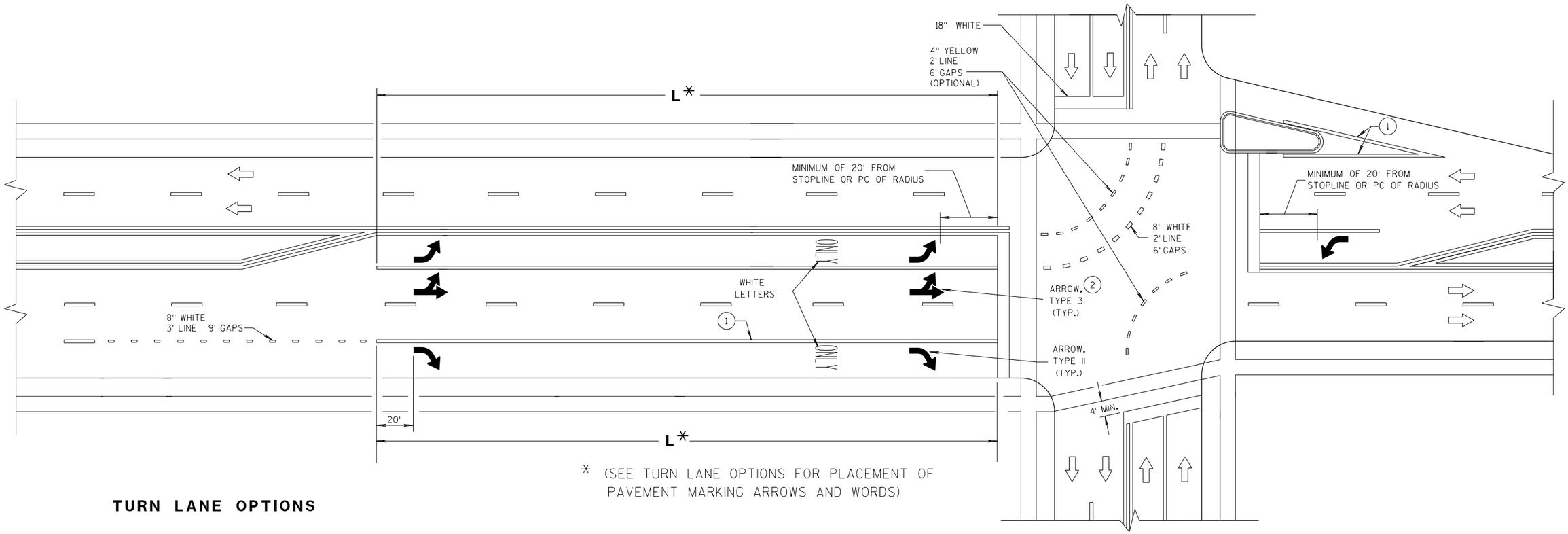
TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

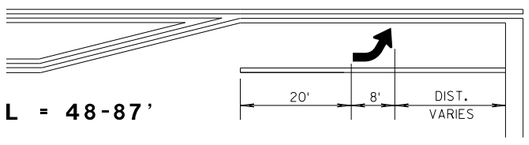
S.D.D. 15 C 8-19b



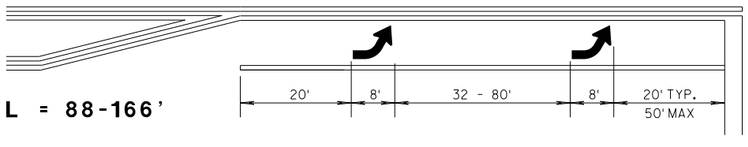
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

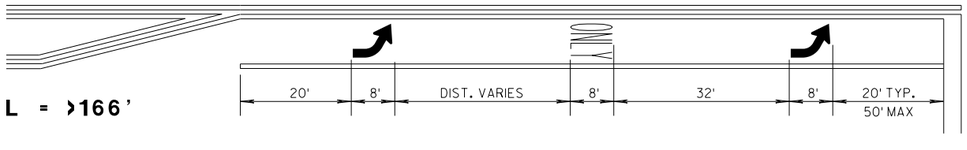
LENGTH OF TURN BAY (**L**) OF 0-47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48-87'



L = 88-166'



L = >166'

GENERAL NOTES

1. 8" WHITE
2. QUANTITY AND LOCATION OF TYPE 3 ARROW ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION, THE ARROWS AND ONLY MARKING ARE ELIMINATED.

⇨ DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORT

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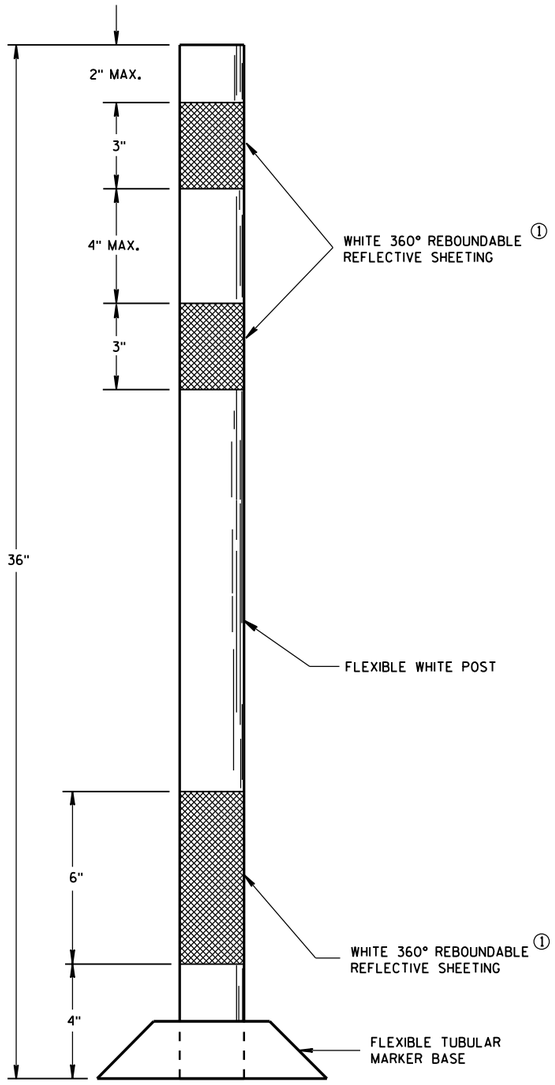
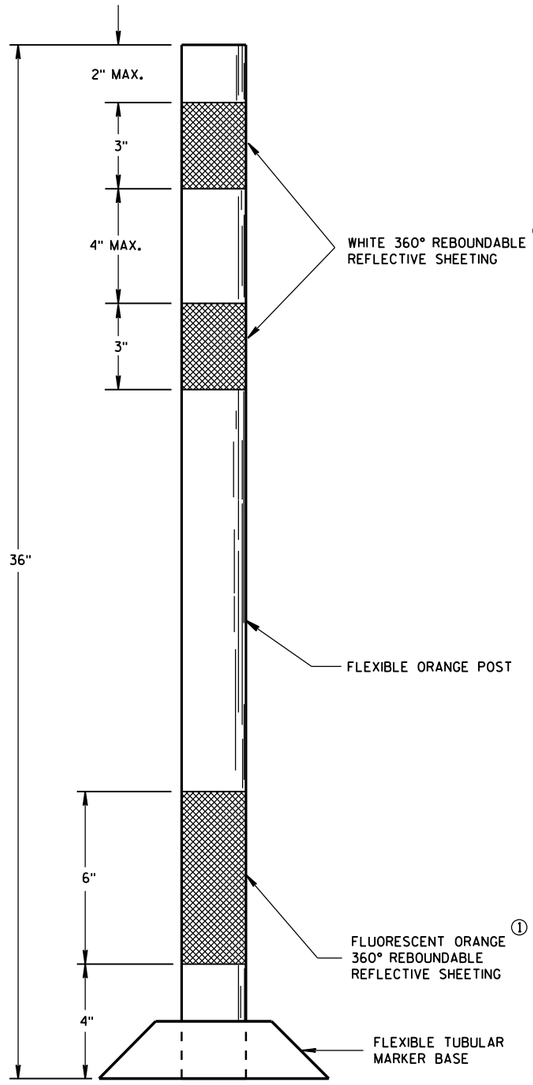
S.D.D. 15 C 8-19c



FLEXIBLE
TUBULAR MARKER POST
PERMANENT CROSSOVER



FLEXIBLE
TUBULAR MARKER POST
WORK ZONE

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

6

S.D.D. 15 C 11-7a

CHANNELIZING DEVICES
FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Andrew Heldtke — WORK ZONE ENGR
FHWA

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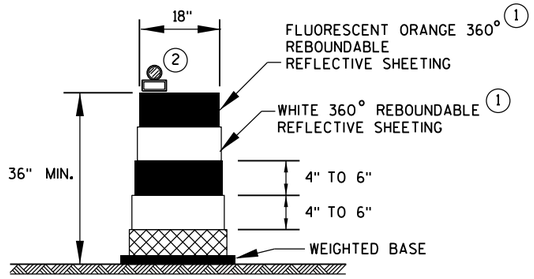
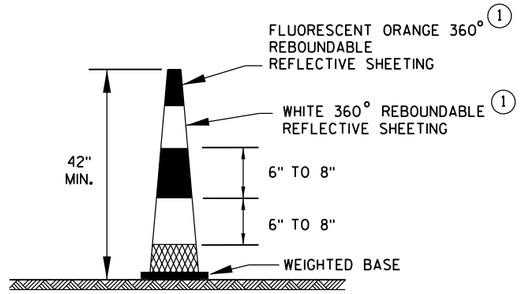
S.D.D. 15 C 11-7a



DRUM

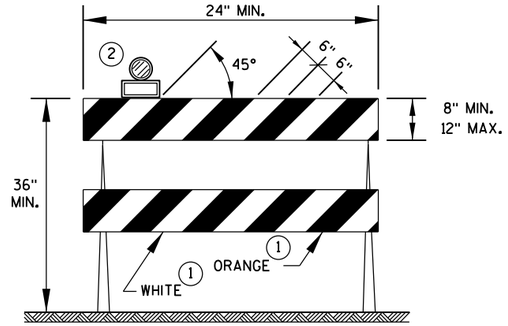


42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

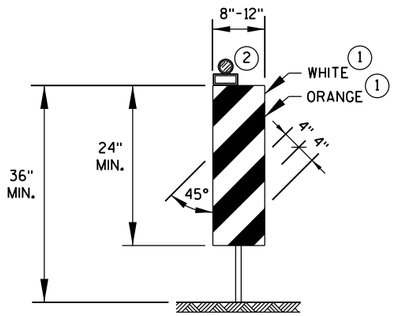
GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



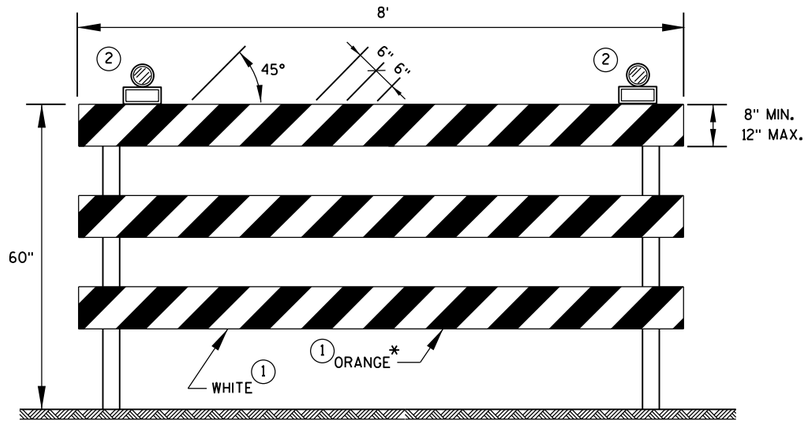
TYPE 2 BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE 3 BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION, USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017	/S/ Andrew Heidtke
DATE	WORK ZONE ENG

FHWA

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S.D.D. 15 C 11-7b

LEGEND

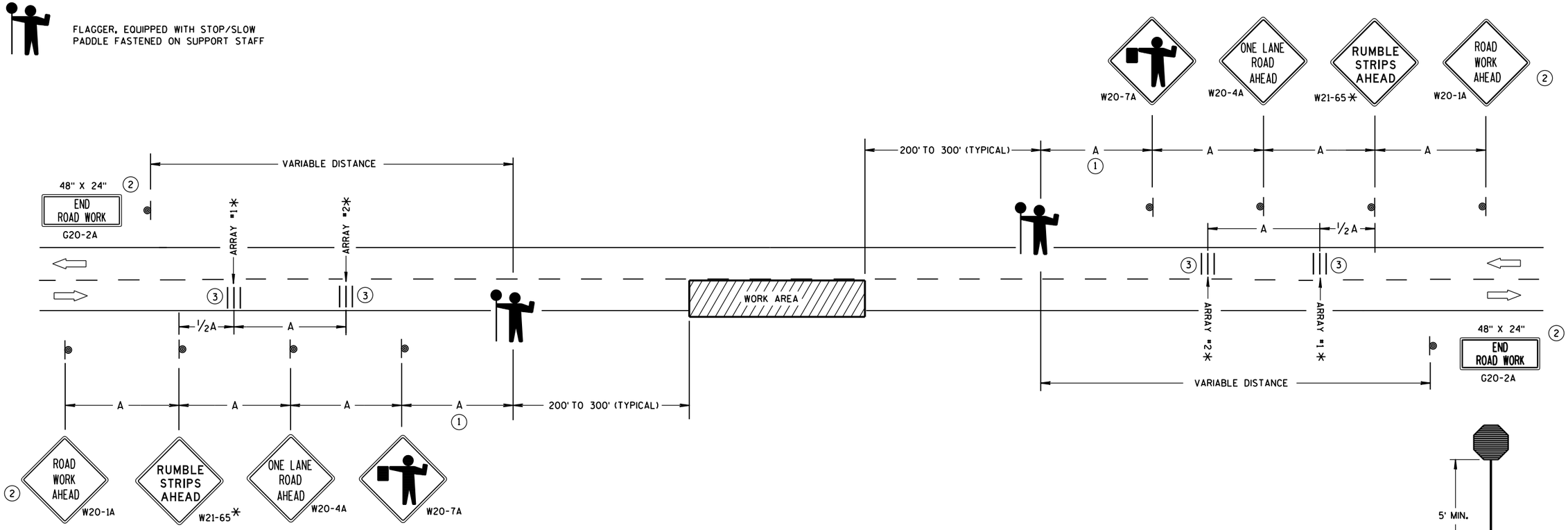
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

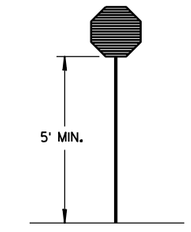
SPEED LIMIT	SPACING A
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

W03-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING A.



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION



STOP/SLOW PADDLE ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

(1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

(3) EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Andrew Heldtke — WORK ZONE ENG
FHWA

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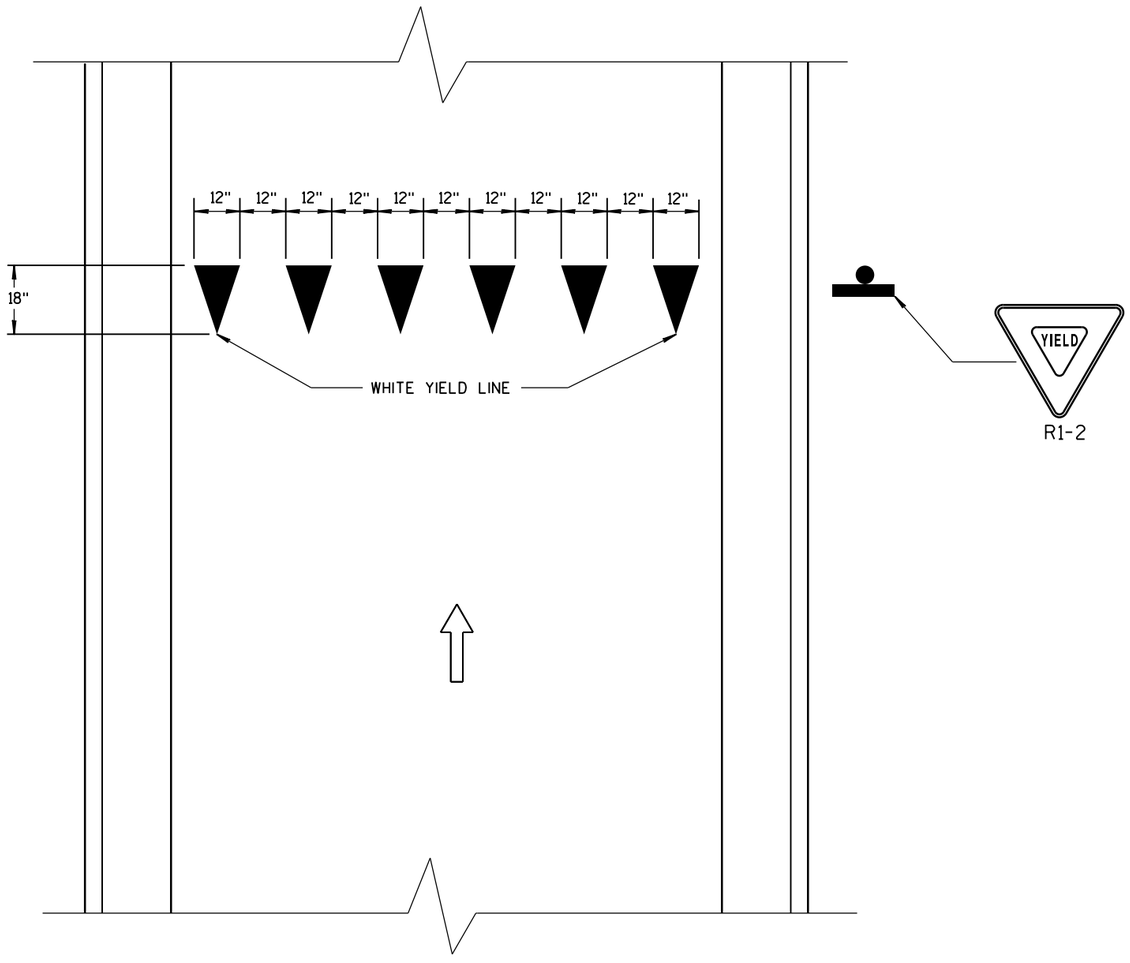
S.D.D. 15 C 12-6



DIRECTION OF TRAVEL

YIELD LINE

6

6

S.D.D. 15 C 20-2

S.D.D. 15 C 20-2

YIELD MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-18-2016
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER

FHWA

GENERAL NOTES

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR ROD STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER FABRICATION DRAWING.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

SIGN SUPPORTS SHALL BE LOCATED NORMAL TO ROADWAY.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BAR CAGE TO BE ASSEMBLED USING TIE WIRES ONLY, NO WELDING.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACK FILLING AROUND THE BASE. ANY REQUIRED BACKFILL SHALL BE WELL COMPACTED IN LAYERS OF 1 FOOT OR LESS. COMPACTION SHALL BE BY MECHANICAL MEANS. CARE SHALL BE TAKEN SO NO DAMAGE OCCURS TO THE CONCRETE BASE DURING COMPACTION.

EXCAVATION OF MATERIALS NOT OCCUPIED BY CONCRETE SHALL BE MINIMIZED TO REDUCE DISTURBANCE OF THE SURROUNDING SOILS.

THE BOTTOM OF THE DRILLED HOLE SHALL BE FIRM AND THOROUGHLY CLEANED SO NO LOOSE OR COMPRESSIBLE MATERIALS ARE PRESENT AT THE TIME OF THE CONCRETE PLACEMENT.

IF THE DRILLED HOLE CONTAINS STANDING WATER, THE CONCRETE SHALL BE PLACED USING A TREMIE TO DISPLACE THE WATER.

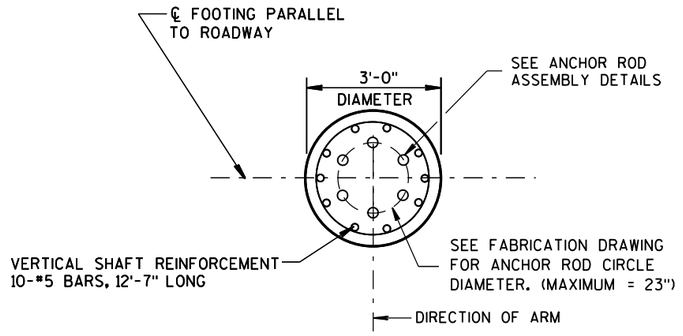
THE REINFORCEMENT AND ANCHOR RODS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

FORM ALL EXPOSED CONCRETE CORNERS WITH ¾" CHAMFER ALL AROUND. TOP OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

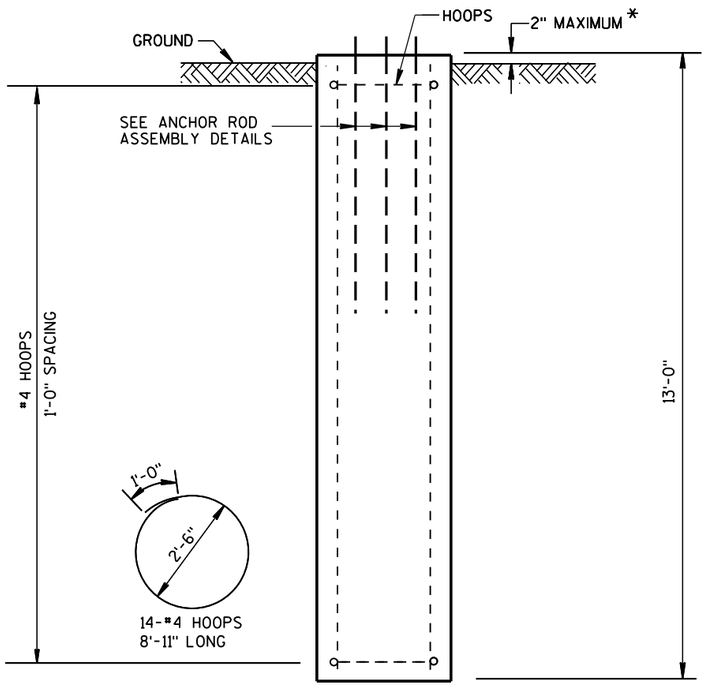
ANY DAMAGE TO THE CONCRETE BASE AND ANCHOR RODS DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, ASTM F1554, GRADE 55	fy=55,000 p.s.i.
ASTM A563A HEAVY HEX NUTS, AND ASTM F436 WASHERS.	
PLATES, ASTM A709, GRADE 36	fy=36,000 p.s.i.

THIS FOOTING HAS BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 20 DEGREES (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 350 PSF (COHESIVE SOILS).

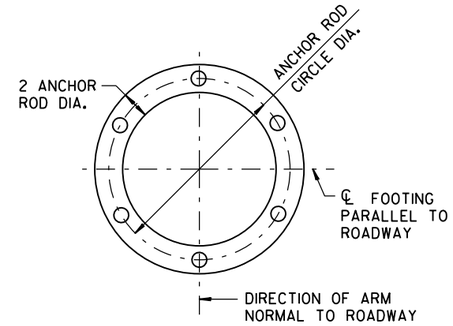


PLAN VIEW

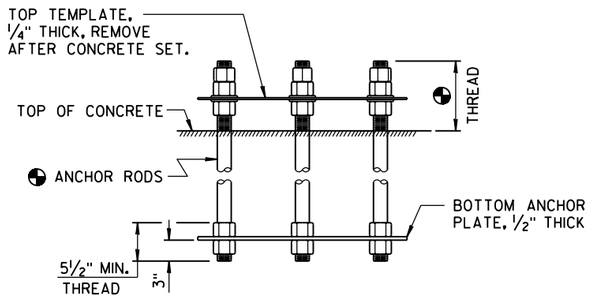


ELEVATION VIEW

* FOR OVERHEAD SIGN SUPPORTS THAT ARE INSTALLED ADJACENT TO SIDEWALKS, THE TOP OF THE BASE SHALL BE POURED FLUSH WITH THE GROUND.



TOP TEMPLATE AND BOTTOM ANCHOR PLATE



ANCHOR ROD ASSEMBLY DETAILS

⊕ MINIMUM OF 6 ANCHOR RODS, EXACT NUMBER, SIZE, DIMENSION AND ORIENTATION AS SHOWN ON FABRICATION DRAWING.

CONCRETE - 3.4 C.Y. PER FOOTING
H.S. REINFORCEMENT - 215 LBS. PER FOOTING

36" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
FHWA

/S/ Vu Thao
WIND LOADED STRU PROGRAM LEAD

6

S.D.D. 15 C 24-4

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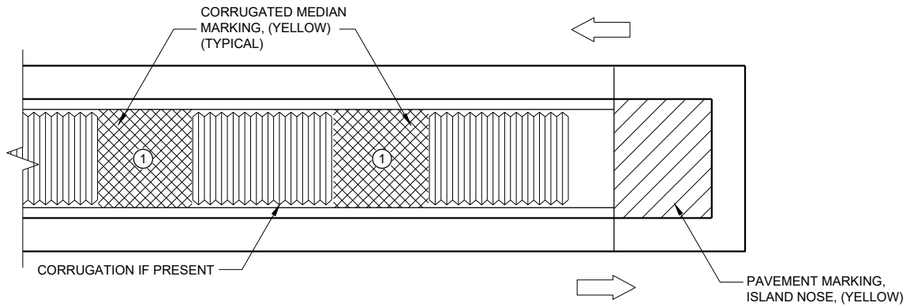
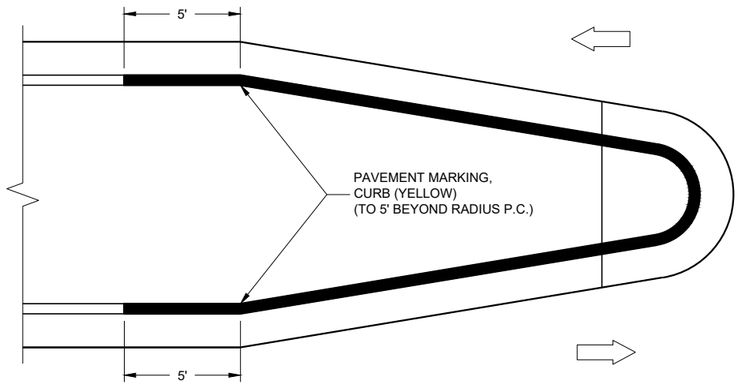
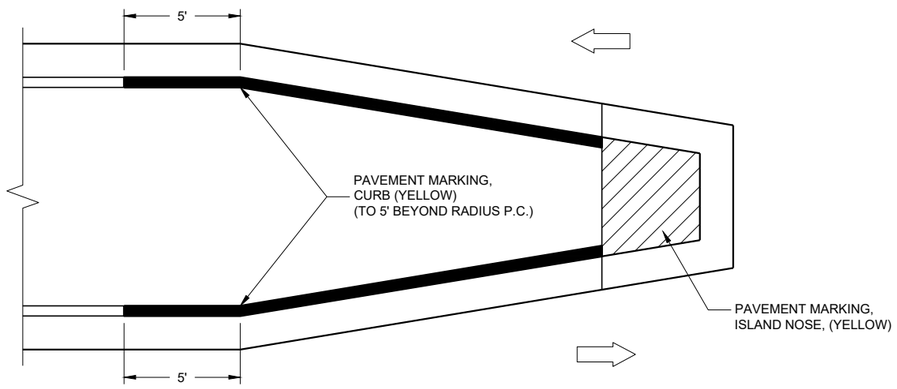
S.D.D. 15 C 24-4



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF
PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

PAVEMENT MARKINGS
(ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAF ENGINEER
FHWA

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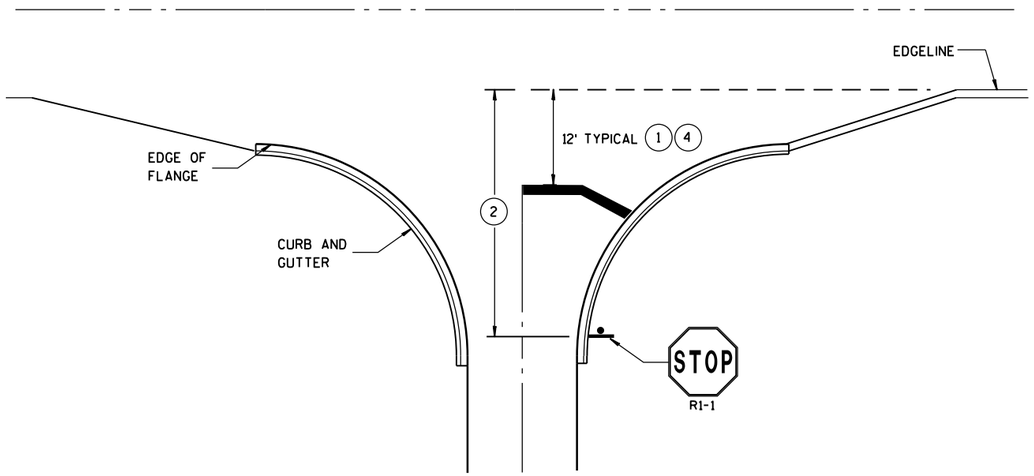
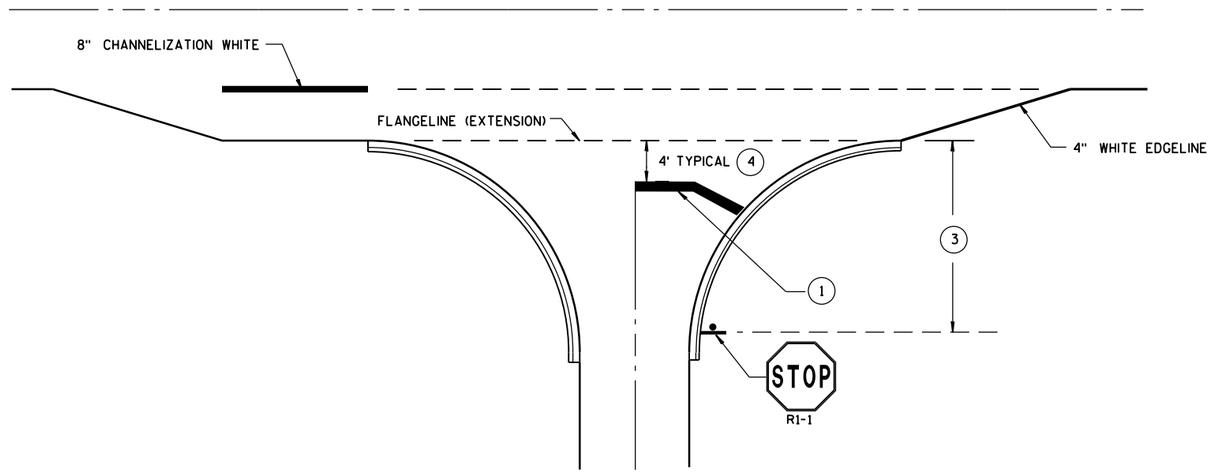
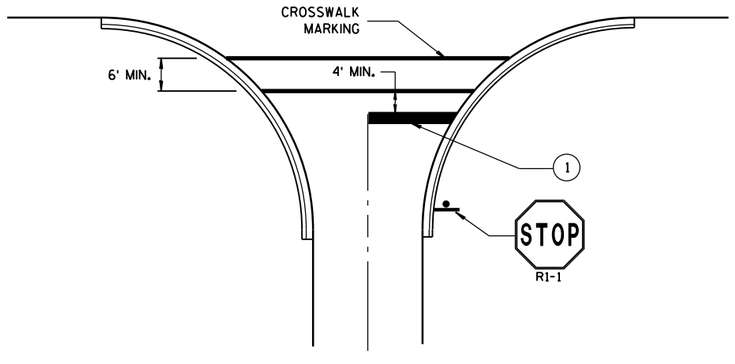
SDD15C27 - 03b



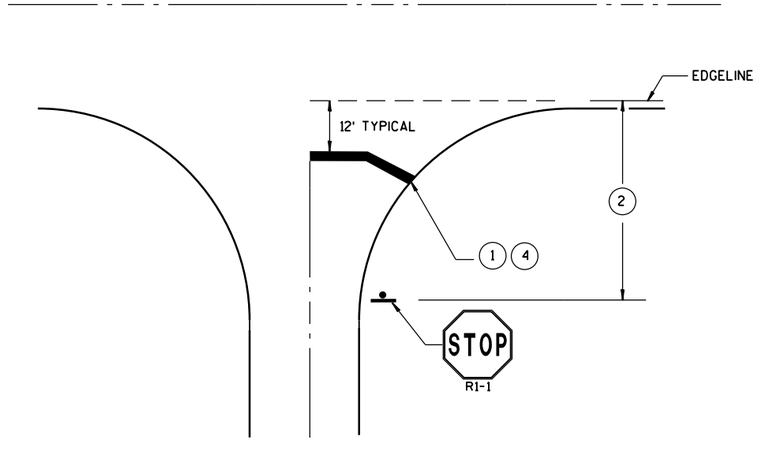
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
3. IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
4. MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MAR[illegible]NEER

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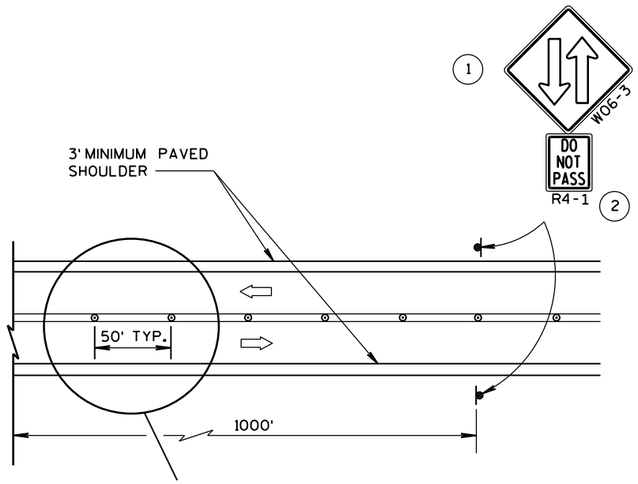
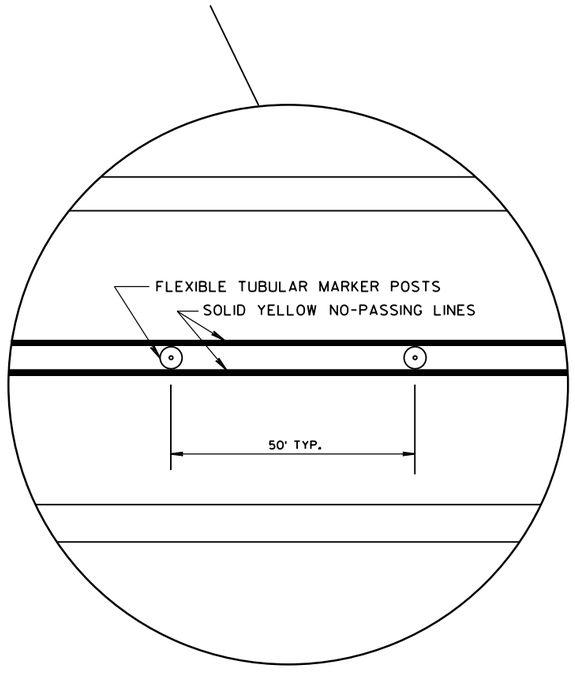
S.D.D. 15 C 33-3



TWO LANE, TWO WAY OPERATION



LEGEND

- SIGN ON PERMANENT SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- DIRECTION OF TRAFFIC

GENERAL NOTES

ALL SIGNS ARE 48"x48" UNLESS OTHERS NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

A SINGLE ROW OF FLEXIBLE TUBULAR MARKERS ON CENTERLINE EXTEND FOR THE ENTIRE LENGTH OF TWO-WAY TRAFFIC AT 50-FOOT SPACING.

COVER EXISTING CENTERLINE STRIPE WITH TEMPORARY PAVEMENT MARKING, 4-INCH DOUBLE YELLOW.

(1)

W057-51
48"x24"

R4-1 (2)

THE W06-3 WITH THE W057-51 SHALL BE LOCATED 200 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP AND/OR 500 FEET BEYOND ANY SIDEROAD. THE W06-3 WITH THE R4-1 SHALL BE LOCATED 1000 FEET BEYOND THE W06-3 AND THE W057-51 AND THE SIGNS SHALL BE ALTERNATED WITH ONE MILE INTERVALS BETWEEN W06-3 SIGNS.

(2) CONVENTIONAL: 24"x30"
FREEWAY AND EXPRESSWAY: 36"x48"

TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER — SIGN

FHWA

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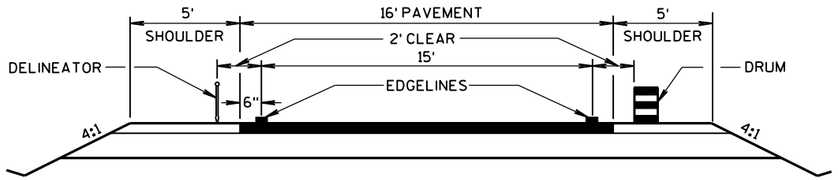
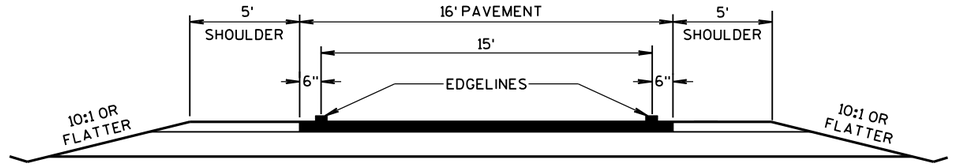
S.D.D. 15 D 6-3



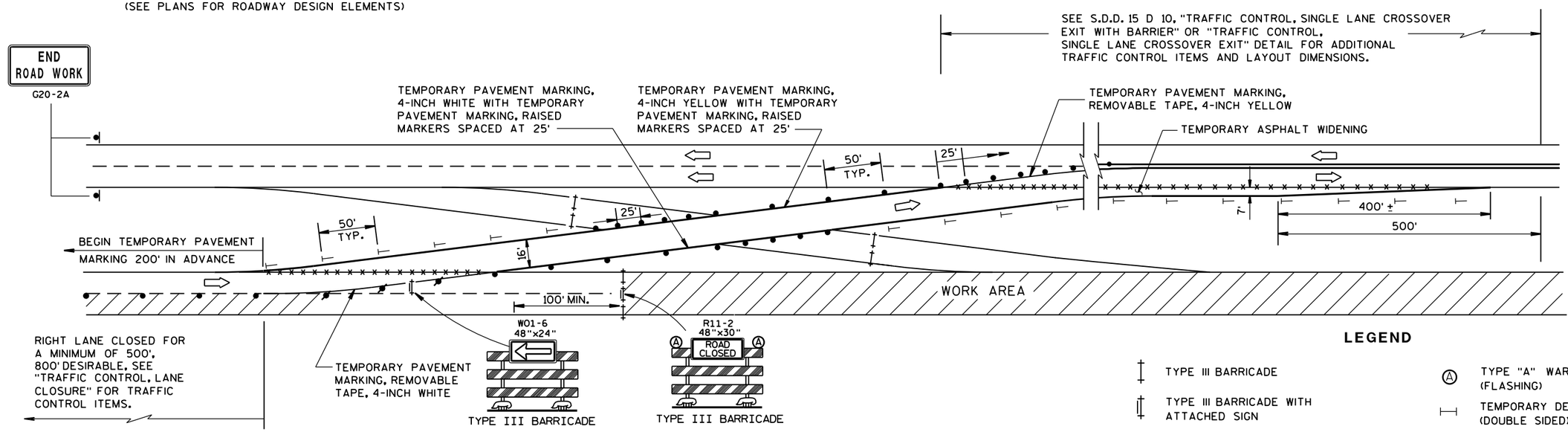
TYPICAL TEMPORARY CROSSOVER ROADWAY DIMENSIONS

(SEE PLANS FOR ROADWAY DESIGN ELEMENTS)



TYPICAL CROSSOVER TO REMAIN IN PLACE ROADWAY DIMENSIONS

(SEE PLANS FOR ROADWAY DESIGN ELEMENTS)



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- TEMPORARY DELINEATOR (STEEL POST W/SINGLE DELINEATOR) COLOR OF DELINEATOR SHALL MATCH THE COLOR OF THE RESPECTIVE EDGELINE MARKING
- TYPE "A" WARNING LIGHT (FLASHING)
- TEMPORARY DELINEATOR (DOUBLE SIDED)
- REMOVING PAVEMENT MARKINGS
- DELINEATOR FLEXIBLE/ TUBULAR MARKER
- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PERMANENT SUPPORT

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN PROPOSED SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE SHALL BE USED WHEN CROSSING PERMANENT ROADWAY SURFACES THAT WILL REMAIN AFTER USE OF CROSSOVER AND TEMPORARY PAVEMENT MARKING WHERE USED.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

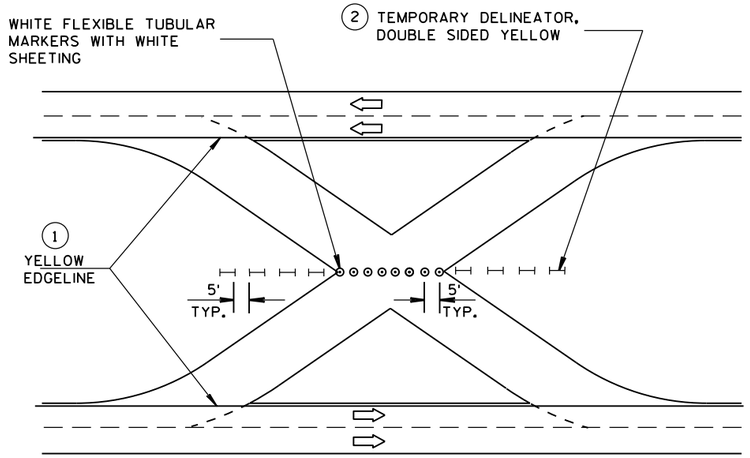
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

REVERSE DEVICES WHEN OTHER LEG OF CROSSOVER IS IN USE.

(1) FOR PERMANENT CROSSOVER, PAVEMENT MARKING SHOULD CONFORM TO SECTION 646 OF THE STANDARD SPECIFICATIONS.

(2) FOR PERMANENT CROSSOVER, INSTALL PERMANENT DELINEATORS ACCORDING TO SECTION 633 OF THE STANDARD SPECIFICATIONS.



TRAFFIC CONTROL FOR CROSSOVER THAT IS NOT IN USE

TRAFFIC CONTROL, SINGLE LANE CROSSOVER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2017
DATE
/S/ Andrew Heldtke
WORK ZONE ENGI
FHWA

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LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMENENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

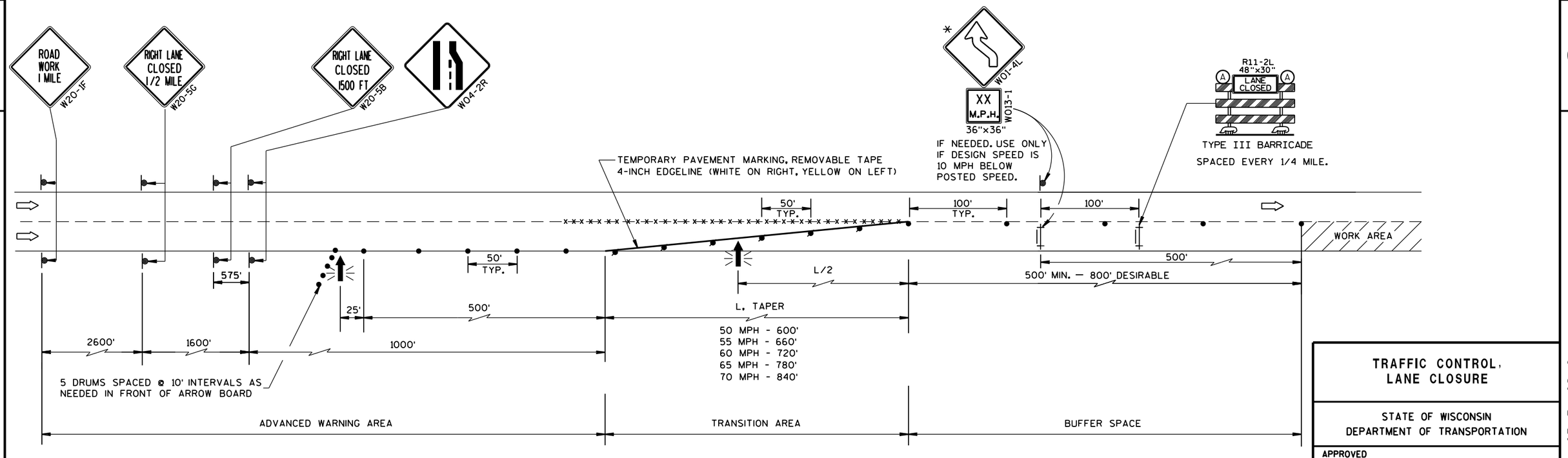
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

* THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.



TRAFFIC CONTROL, LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2016 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

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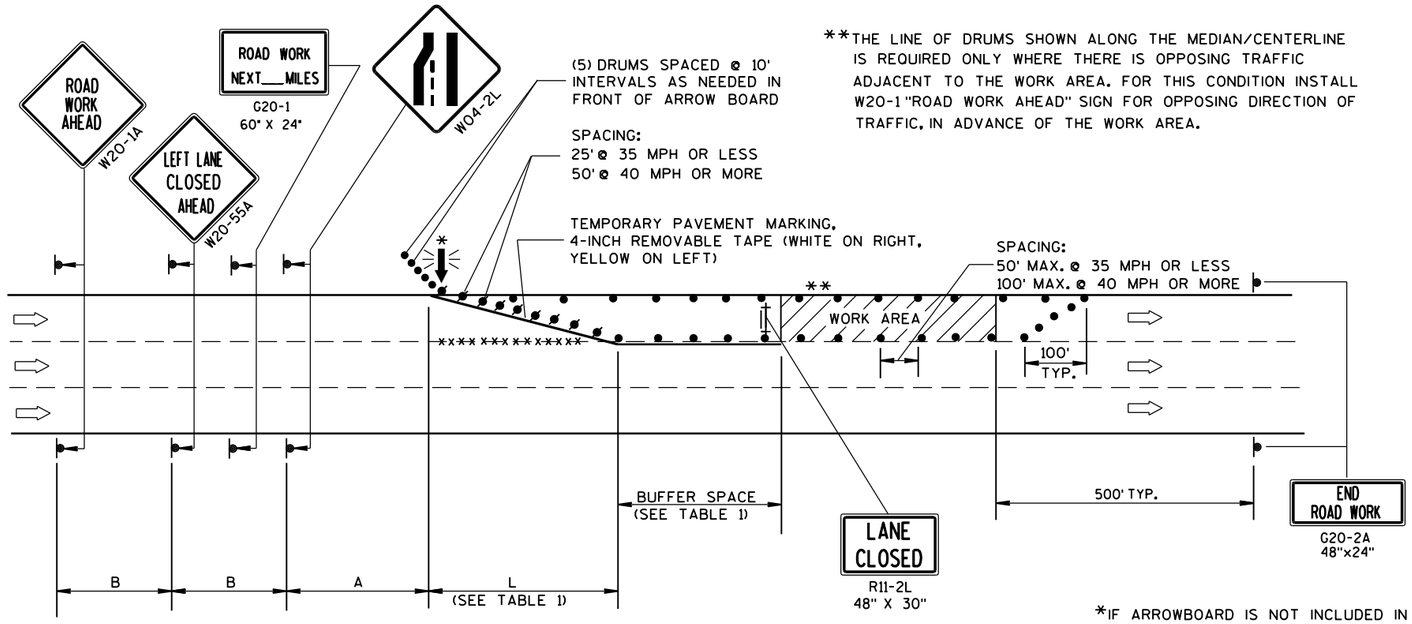
S.D.D. 15 D 12-6a



**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF TRAFFIC, IN ADVANCE OF THE WORK AREA.

B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

(PLACE BARRICADE AND SIGN APPROX. EVERY 1000' ACROSS THE CLOSED LANE)

*IF ARROWBOARD IS NOT INCLUDED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE A TYPE III BARRICADE WITH W01-6 SIGN IN THE LANE CLOSURE TAPER.

W01-6
48"x24"

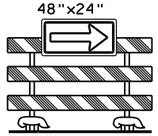


TABLE 1
TAPER AND BUFFER SPACE FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

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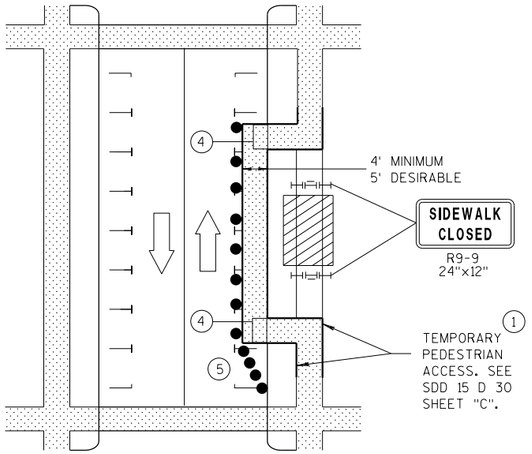
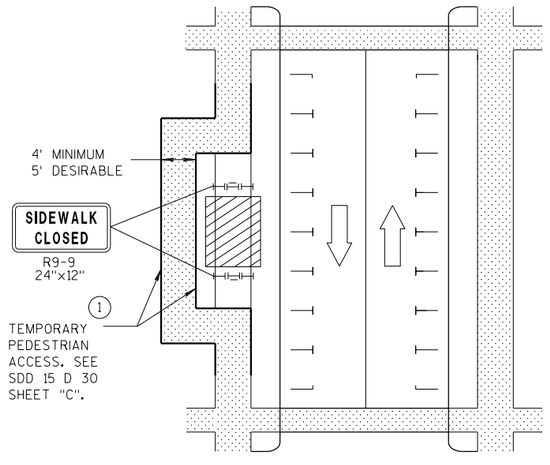
NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

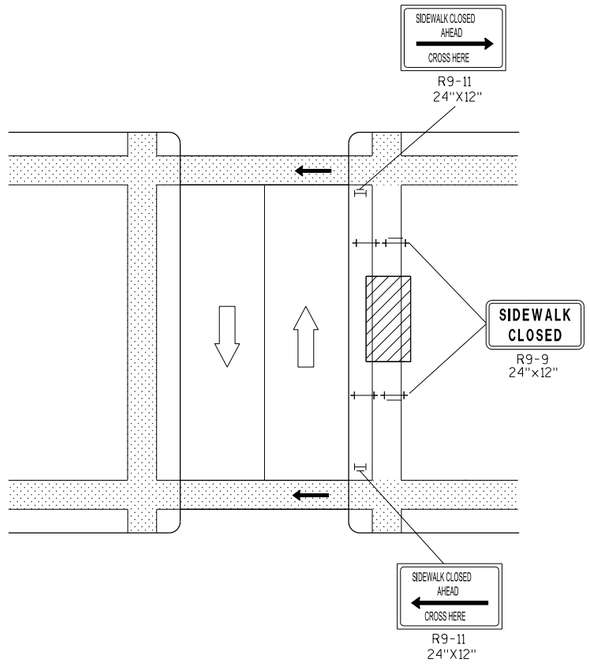


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

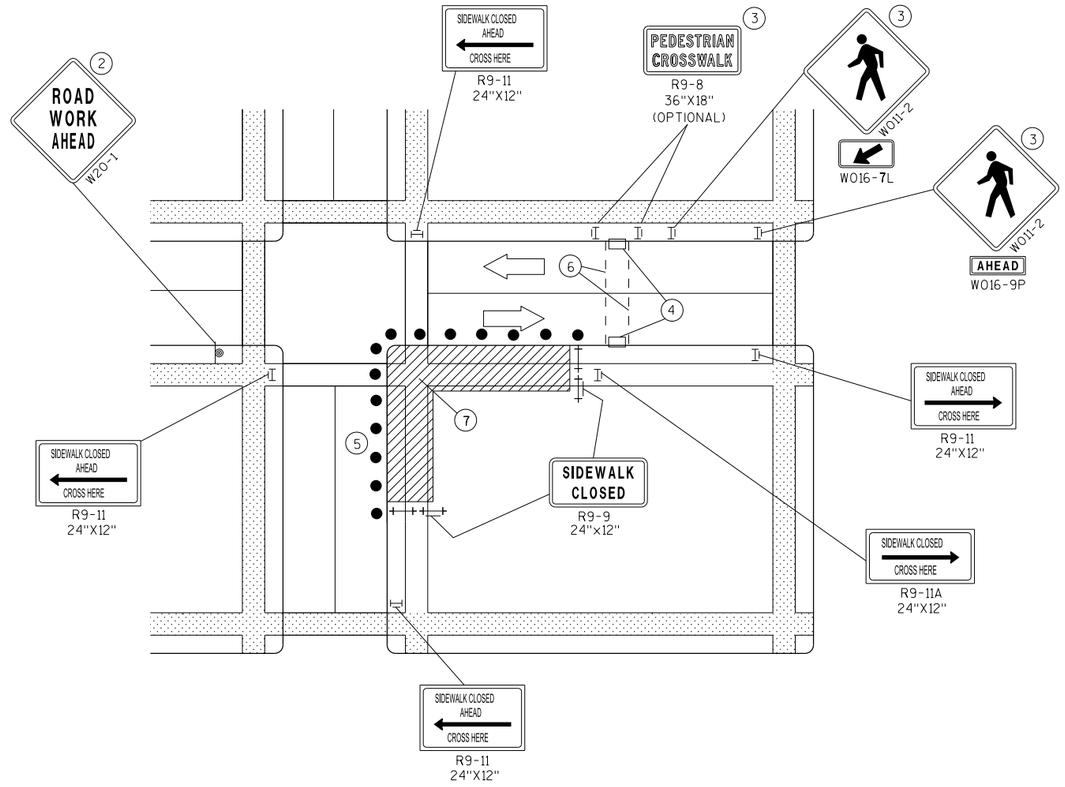
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

FOR NIGHTTIME CLOSURE USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

(1) IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE.

(2) "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

(3) IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND W011-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.

(4) TEMPORARY CURB RAMPS. SEE SDD 15 D 30 SHEET "B".

(5) DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.

(6) TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.

(7) LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

LEGEND

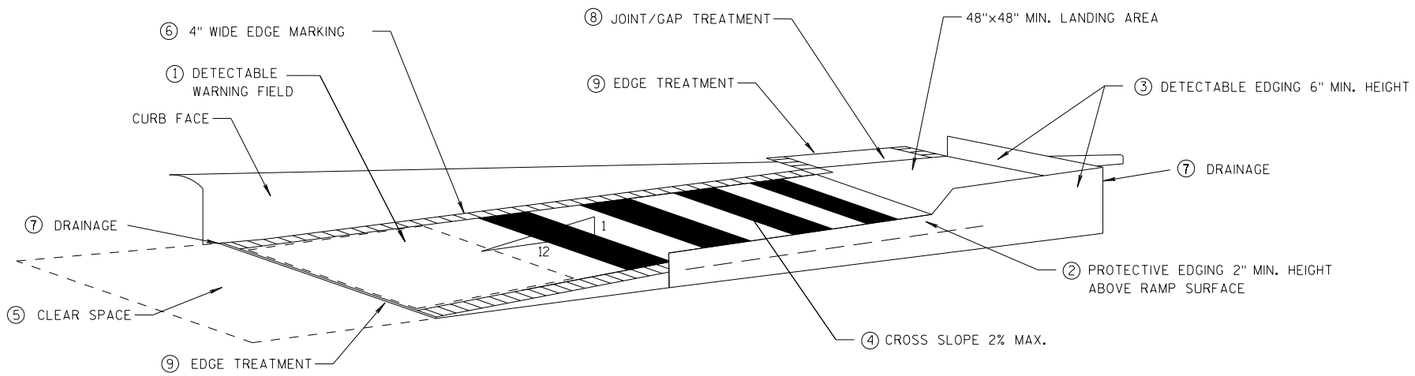
- SIGN ON PERMANENT SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- DIRECTION OF TRAFFIC
- TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF

6

S.D.D. 15 D 30-4a



TEMPORARY CURB RAMP PARALLEL TO CURB

GENERAL NOTES

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

① CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 8D5 SHEET "E".

② PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

③ DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

④ CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

⑤ CLEAR SPACE OF 48"X48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

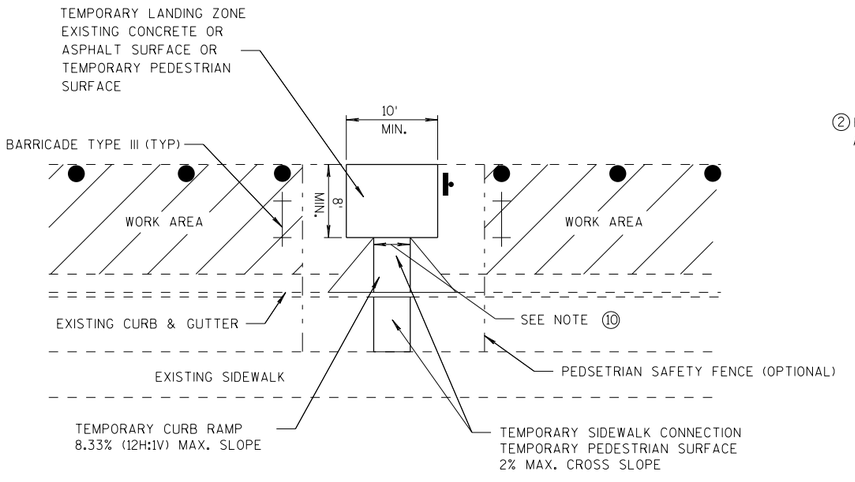
⑥ THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.

⑦ DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

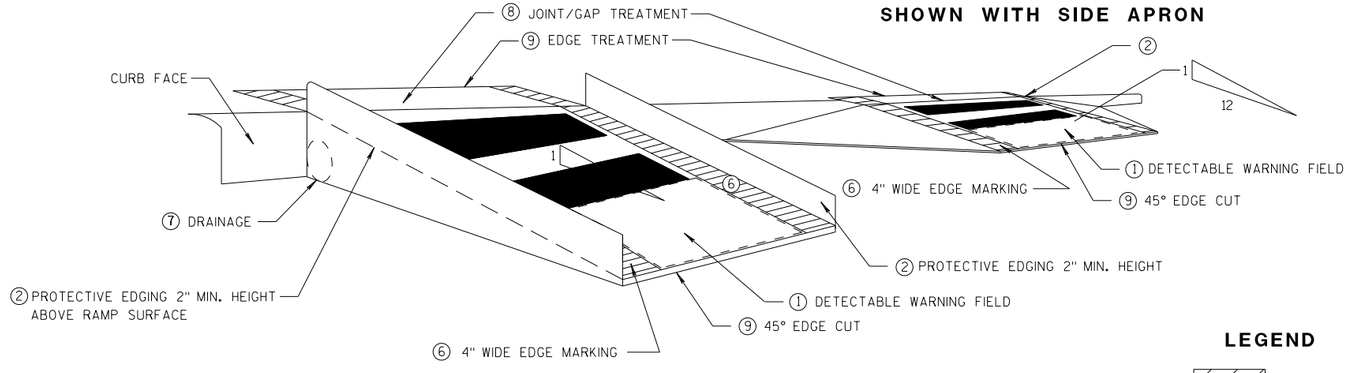
⑧ LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.

⑨ CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES SHALL BE VERTICAL UP TO 1/4" HIGH, AND BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".

⑩ 5' WIDE MIN. WITH PEDSETRIAN SAFETY FENCE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY FENCE.



TEMPORARY BUS STOP PAD



SHOWN WITH SIDE APRON

SHOWN WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

LEGEND

WORK AREA

TYPE III BARRICADE

TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018 DATE

/S/ Andrew Heidtke
WORK ZONE ENG

668

FHWA

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S.D.D. 15 D 30-4b

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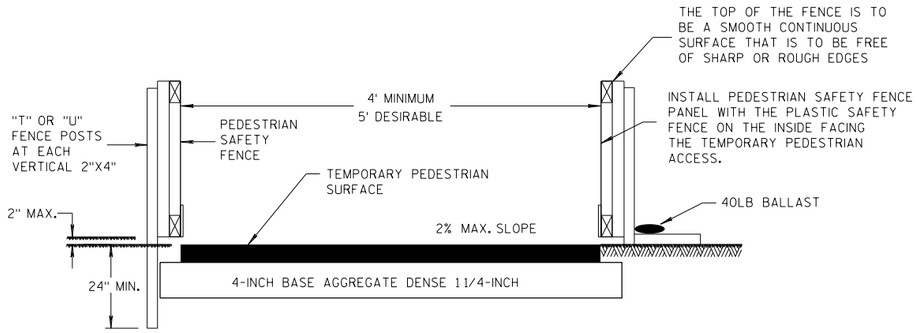
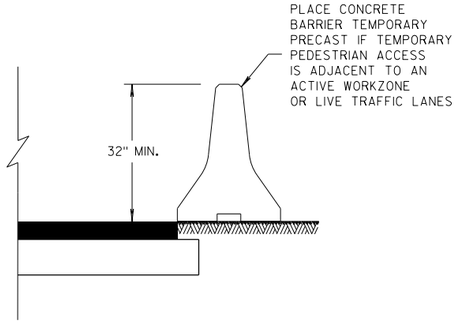
S.D.D. 15 D 30-4b

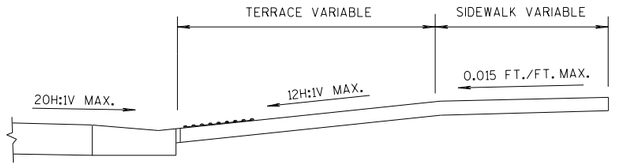




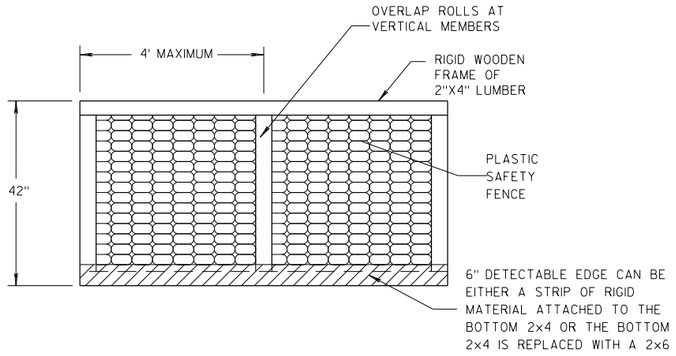
TEMPORARY PEDESTRIAN ACCESS

GENERAL NOTES

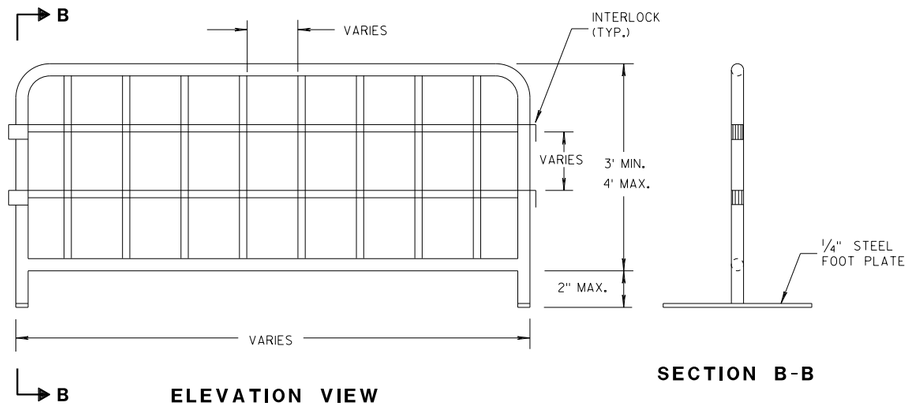
(1) INTERCHANGEABLE WITH THE PEDESTRIAN SAFETY FENCE.



SECTION A-A



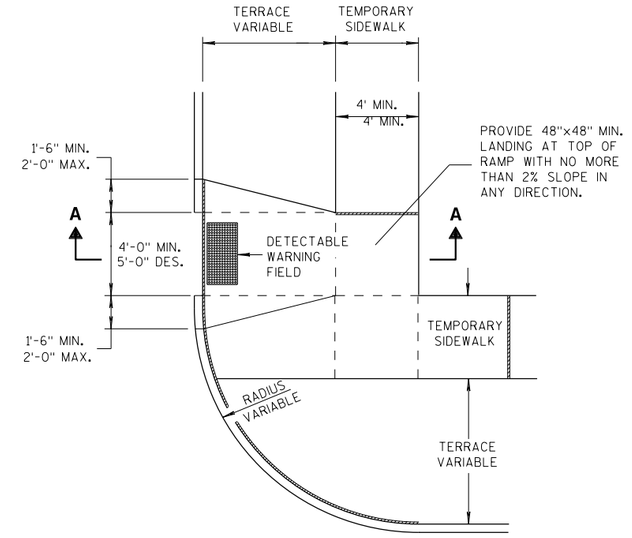
PEDESTRIAN SAFETY FENCE



ELEVATION VIEW

SECTION B-B

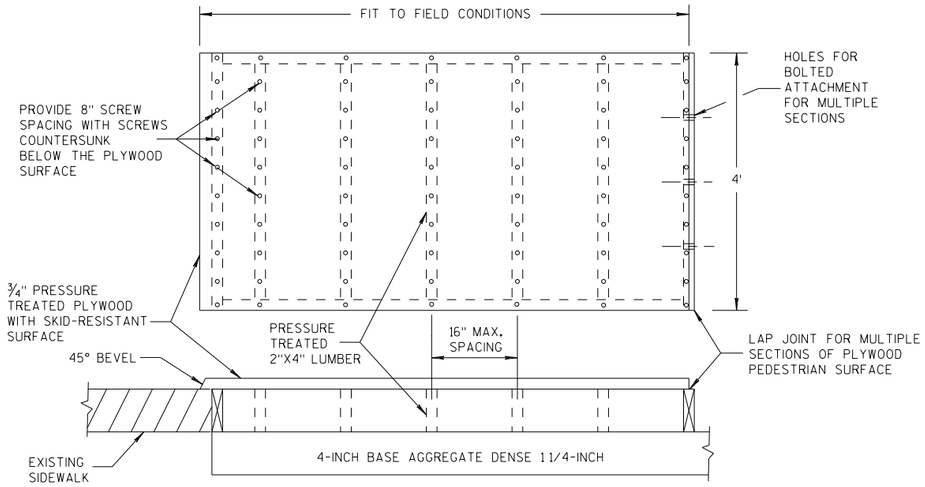
TEMPORARY PEDESTRIAN STEEL BARRICADE (1)



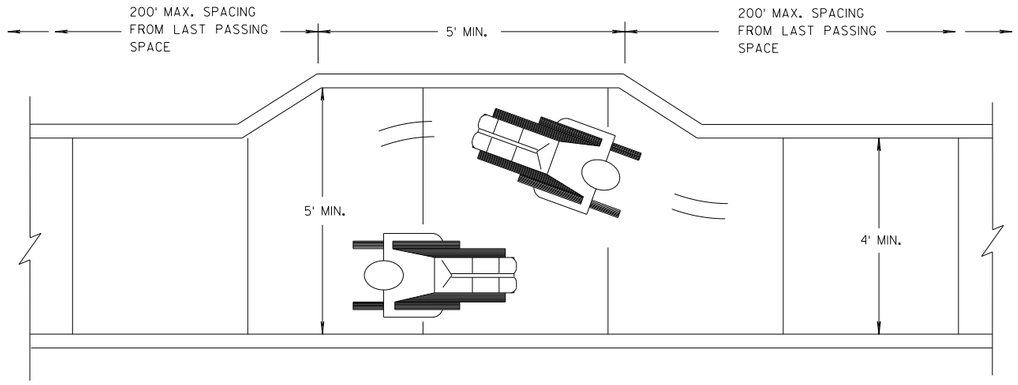
PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



NARROW SIDEWALK PASSING DETAIL

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Andrew Heidtke
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669

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S.D.D. 15 D 30-4c

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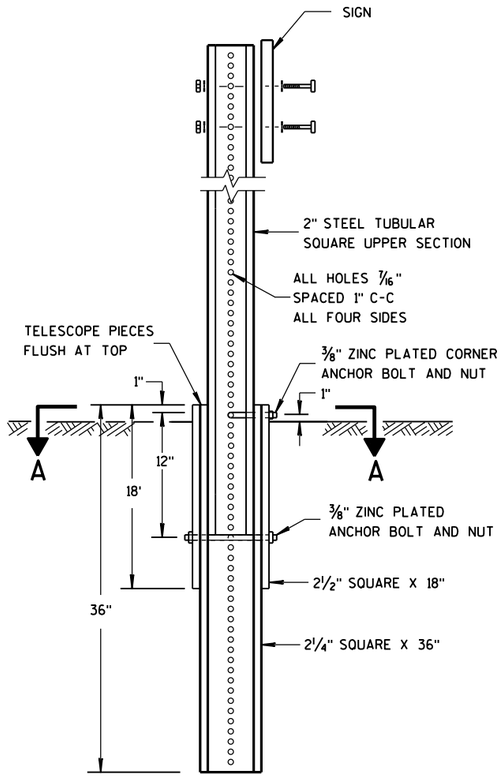
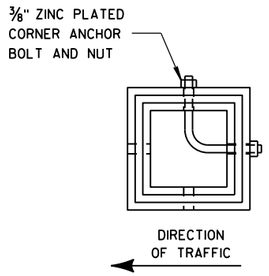
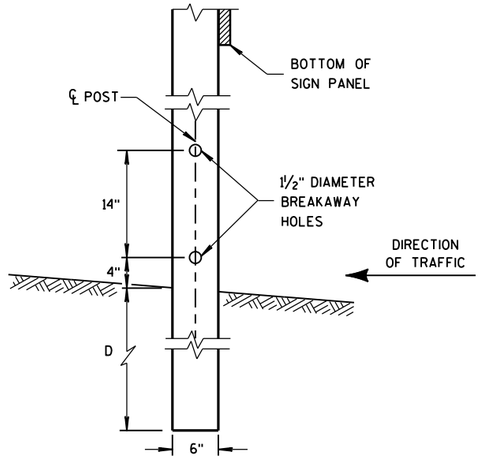
S.D.D. 15 D 30-4c



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



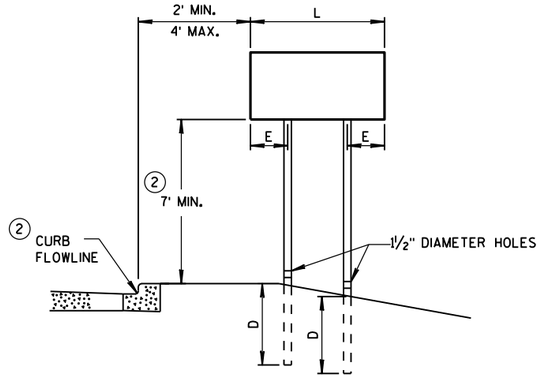
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

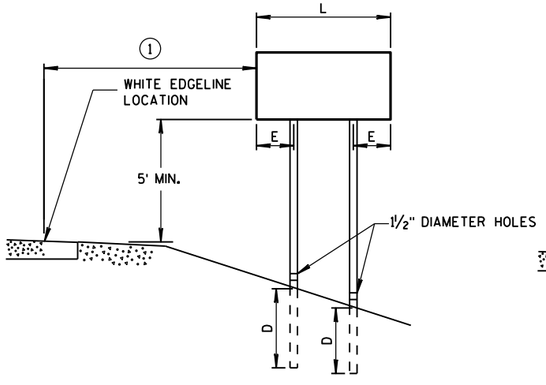
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

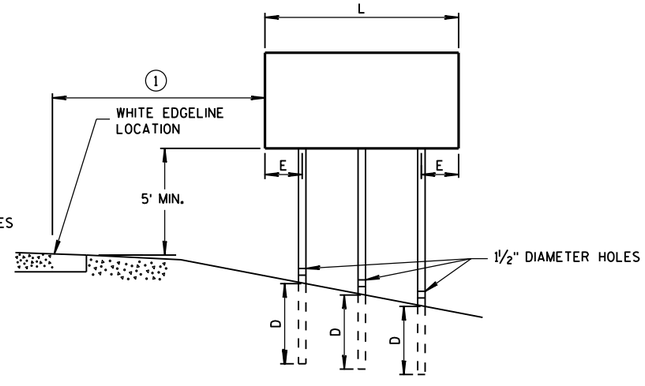
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

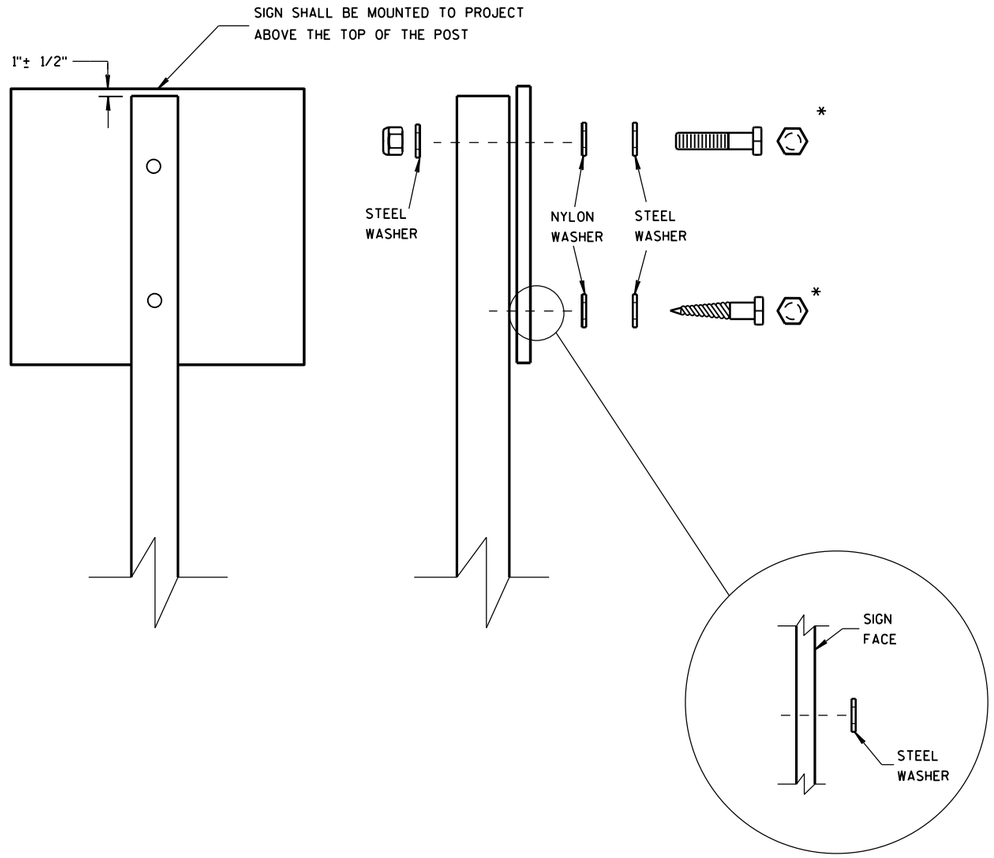
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 38-2a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

S.D.D. 15 D 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

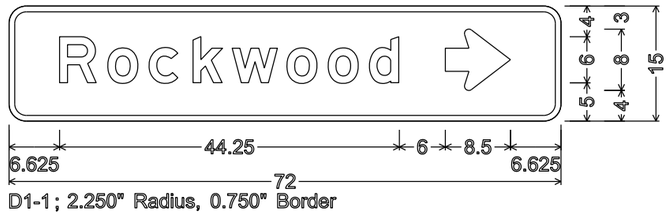
June 2017
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

FHWA

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E



D1-1 ; 2.250" Radius, 0.750" Border

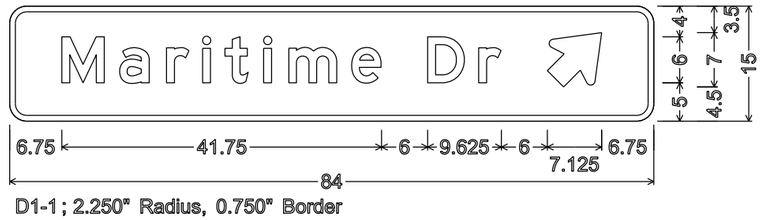
7

7

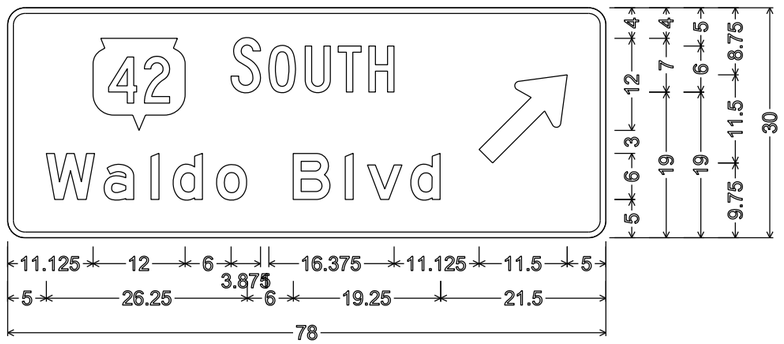
PROJECT NO: 1500-47-71	HWY: USH 10	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET NO: 672	E

NOTES

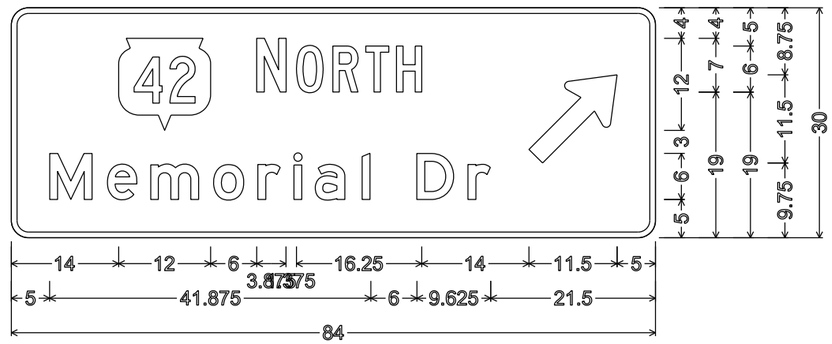
1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E except as noted



D1-1 ; 2.250" Radius, 0.750" Border



D1-2 ; 2.250" Radius, 0.750" Border
"SOUTH" C; "Waldo" E; "Blvd" E



D1-2 ; 2.250" Radius, 0.750" Border
"NORTH" C; "Memorial" E; "Dr" E

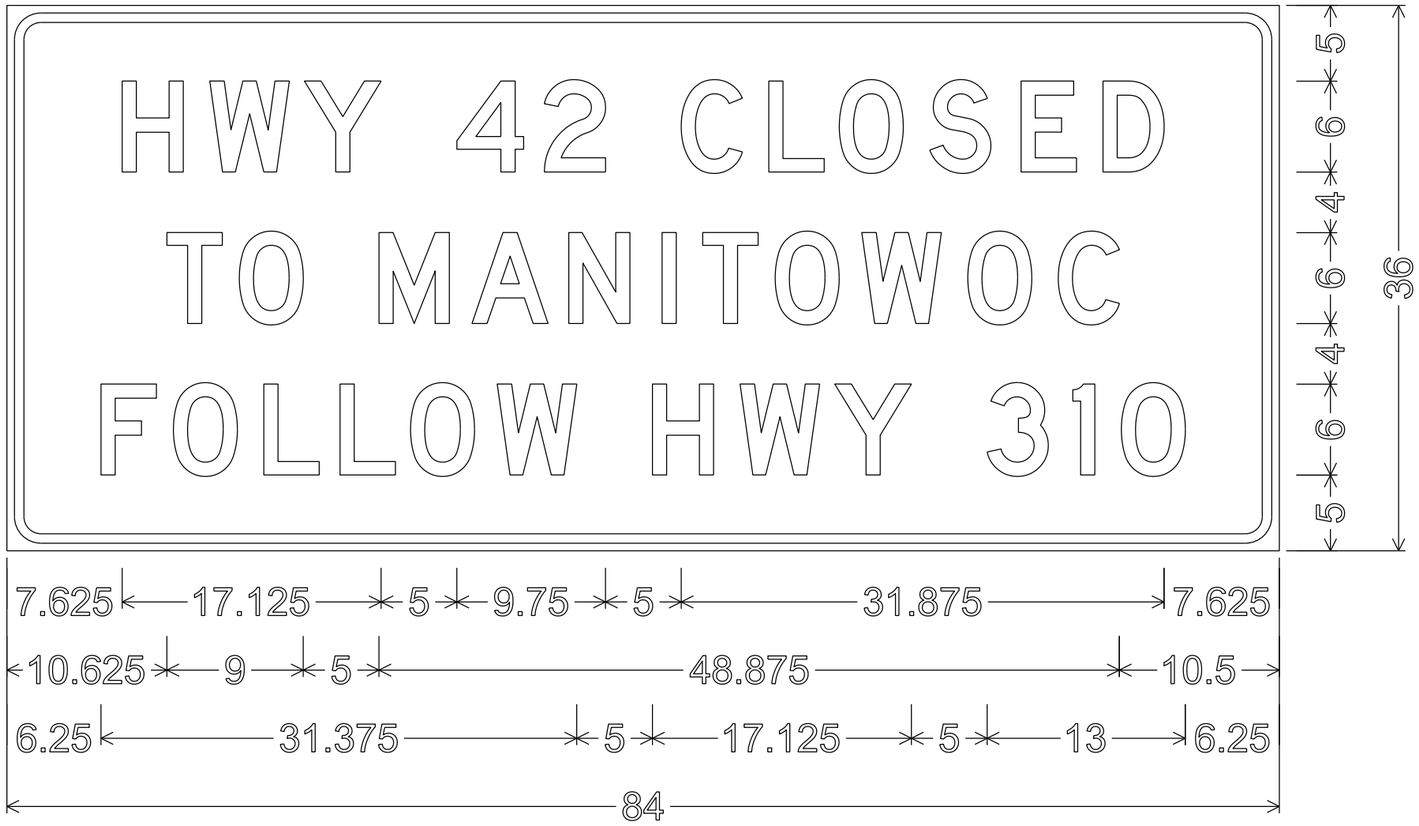
7

7

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	PERMANENT SIGNING	SHEET NO: 673	E

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D



2.250" Radius, 0.625" Border, 0.500" Indent

7

7

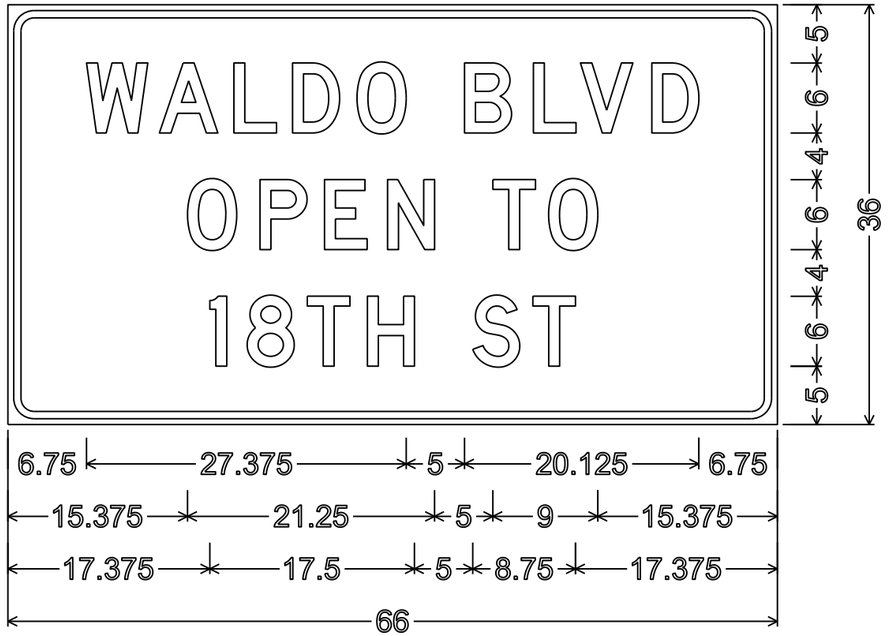
PROJECT NO: 1500-37/47-71, 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	FIXED MESSAGE SIGN DETAIL	SHEET NO: E

FILE NAME : N:\spo\traffic\A Work Zone\Detours\Manitowoc County\USH 10\CTH R - CTH B\Hwy42Closed.dgn PLOT DATE : 31-MAY-2016 07:21 PLOT BY : dotj1f PLOT NAME : PLOT SCALE : 10:1

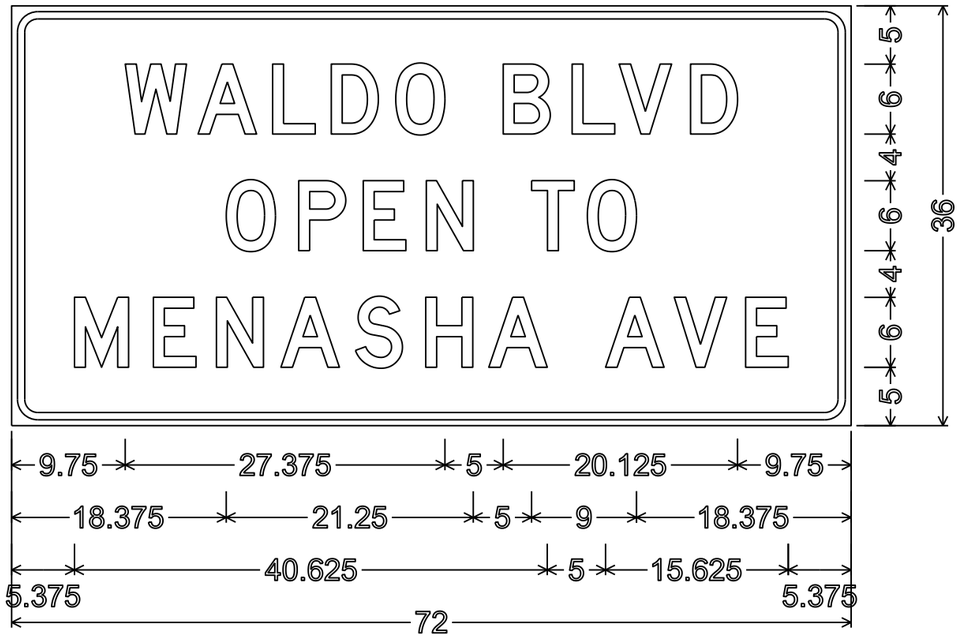
WISDOT/CADDS SHEET: 42

NOTES

1. Fixed Message Type II Signs - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D



2.250" Radius, 0.625" Border, 0.500" Indent



2.250" Radius, 0.625" Border, 0.500" Indent

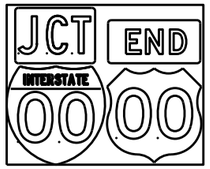
7

7

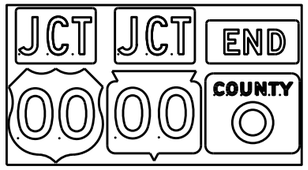
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	TEMPORARY SIGNING	SHEET NO: 675	E

TYPICAL ASSEMBLIES

J1-1

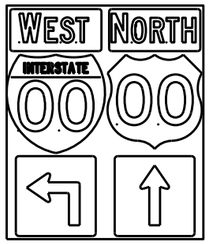


J1-2

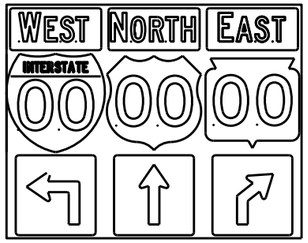


J1-3

J2-1



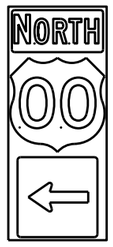
J2-2



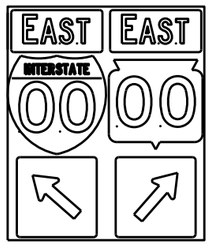
J2-3

JV

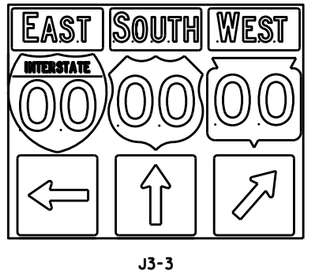
(Typical Vertical J-Assembly
See Note 10 and 11)



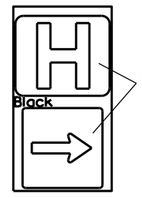
J3-1



J3-2



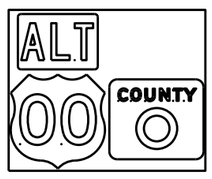
J3-3



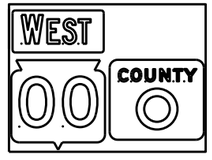
Blue Background

JH-1

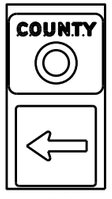
J4-1



J4-2



J4-2



J13-1

J12-1

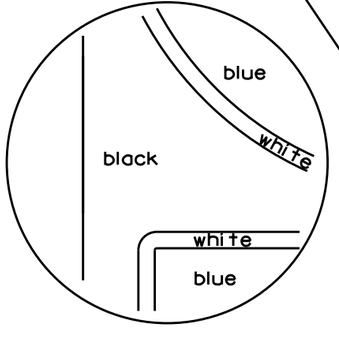
J32-1

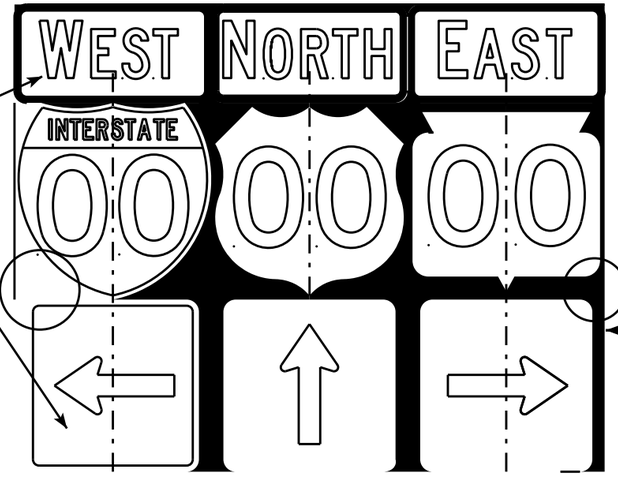
J33-1

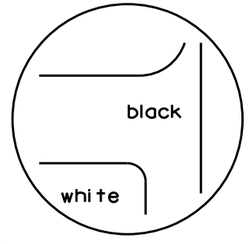
J23-1

J22-1

[blue background with interstate]







[black background]

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/06/14 PL... A2-1S.8

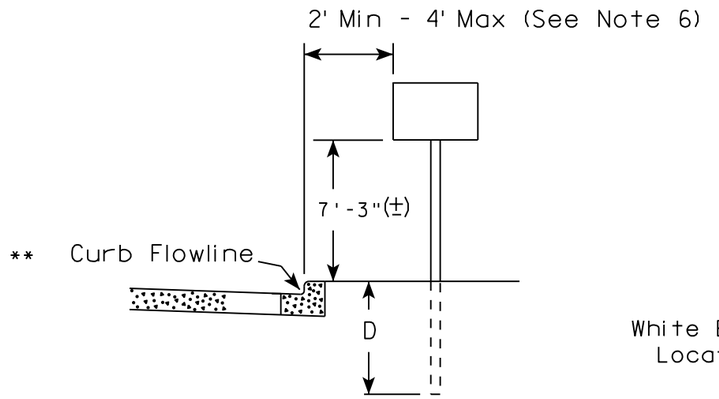
PROJECT NO:

SHEET NO: E

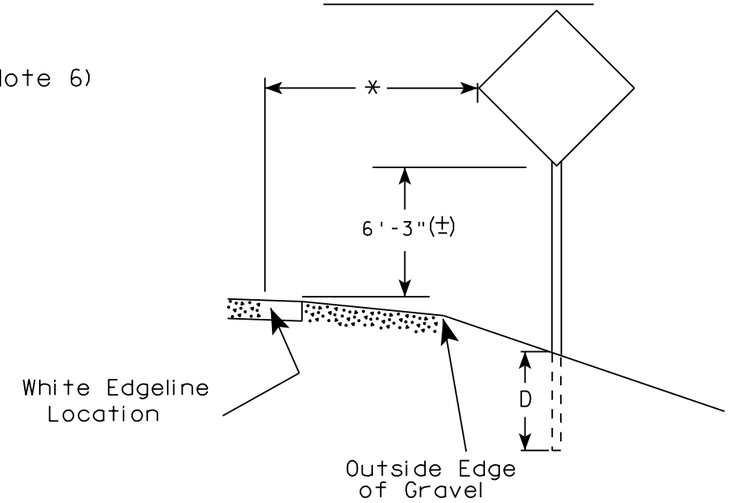
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :

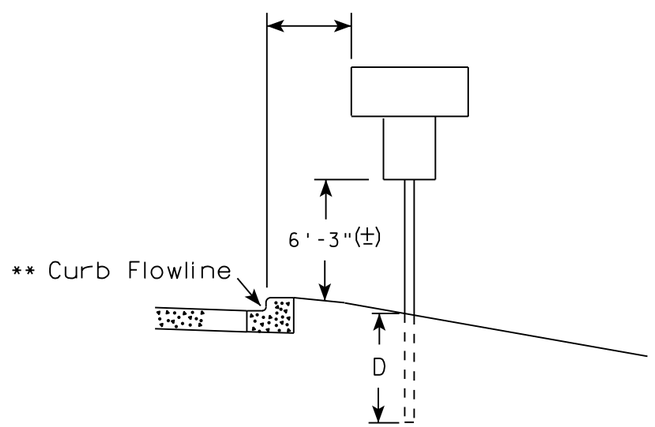
WISDOT/CADDS SHEET 42

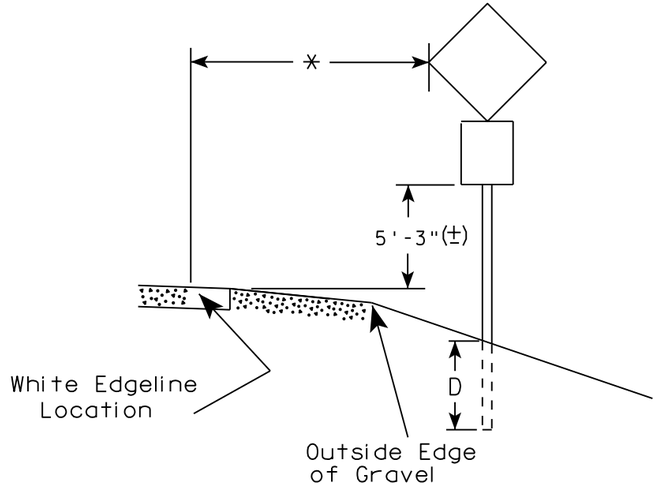
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

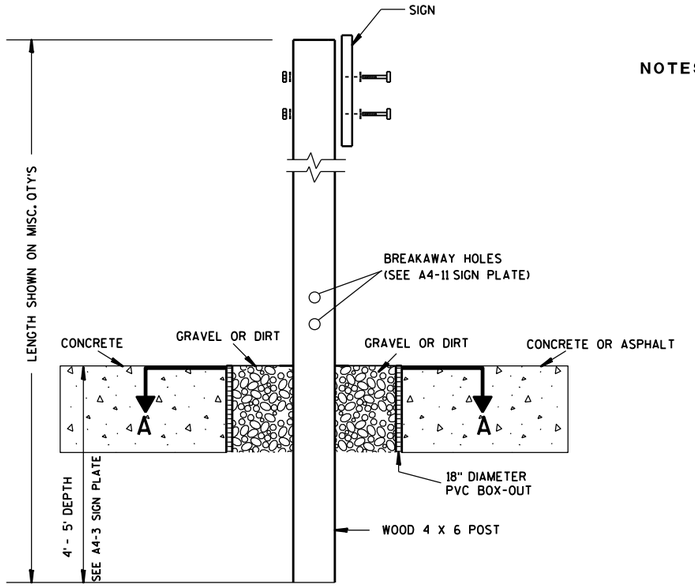
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

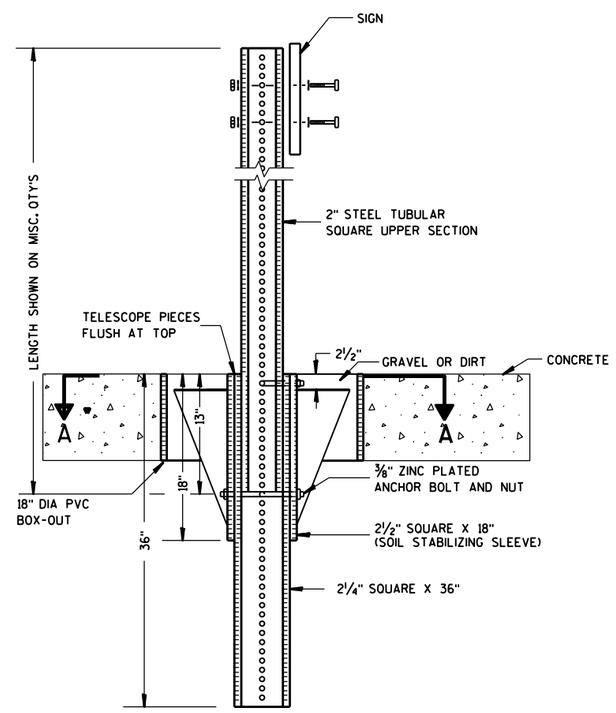
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 677	E



ELEVATION VIEW

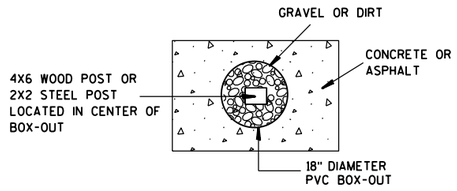
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

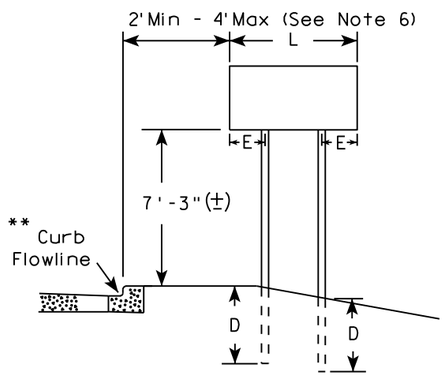
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

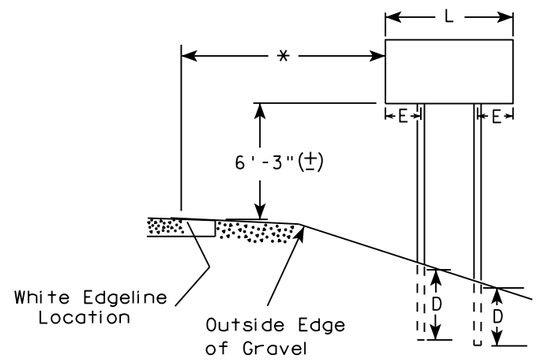
DATE 1/27/14 PLATE NO. A4-3B.1

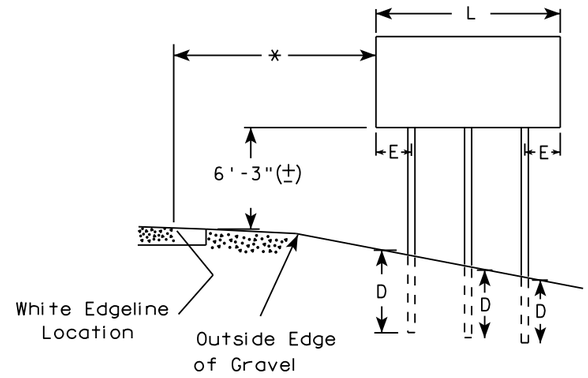
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

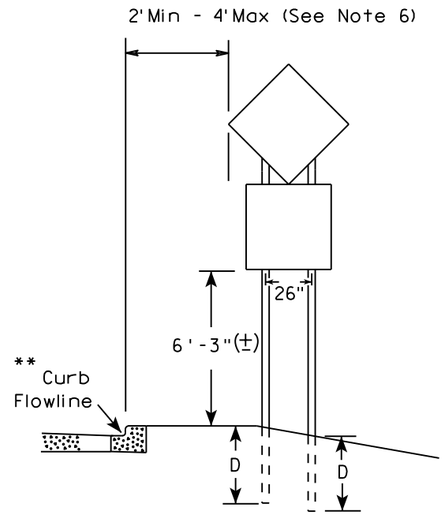
URBAN AREA



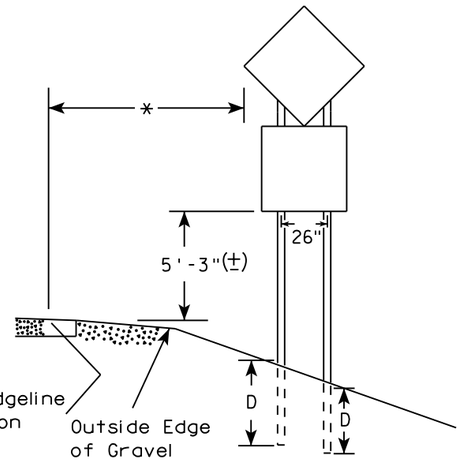
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

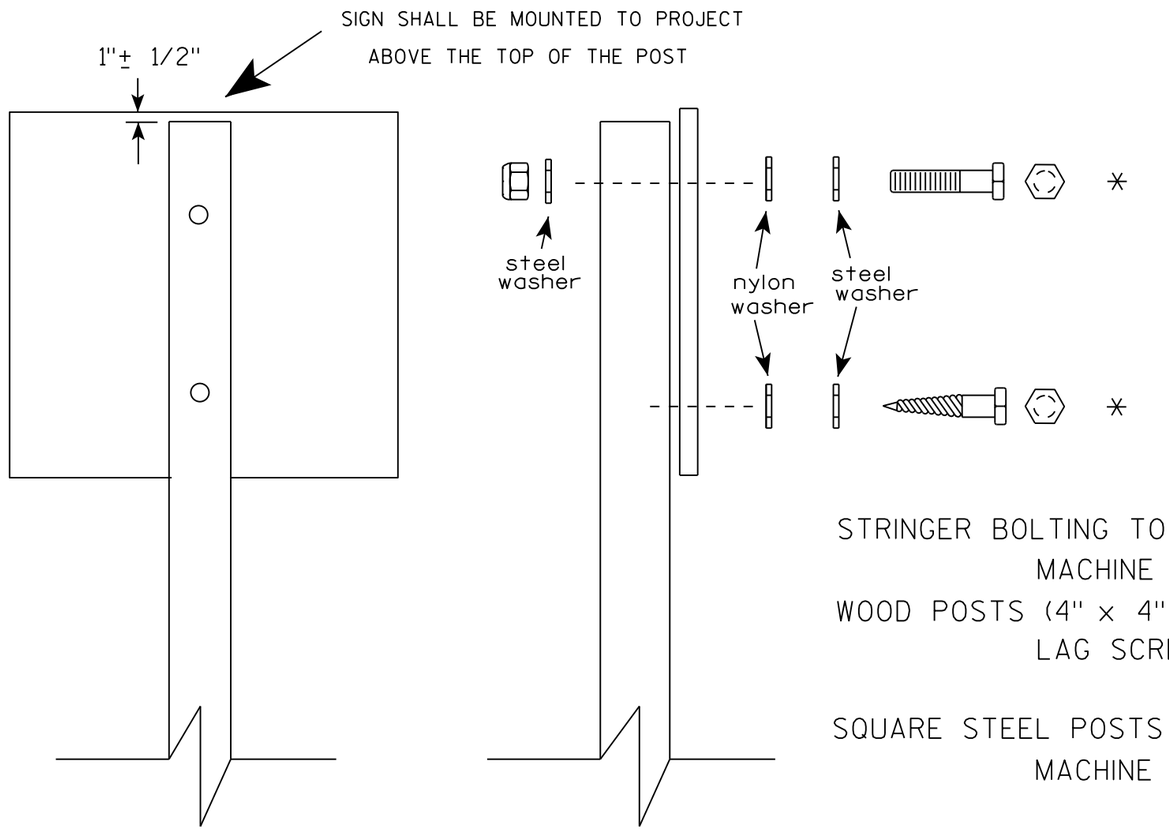
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 679	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)

3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)

3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/11/16 PLATE NO. A4-8.8

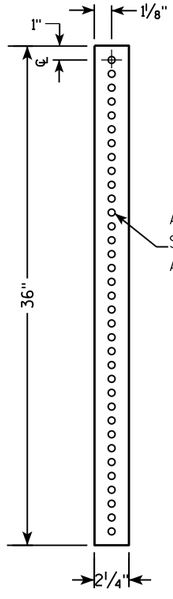
PROJECT NO:

SHEET NO: E

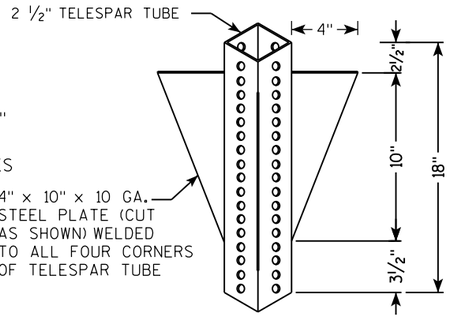
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

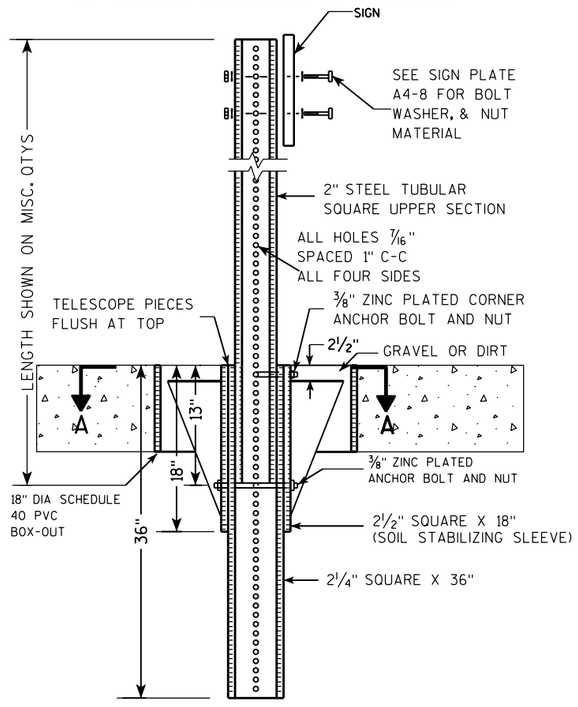
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



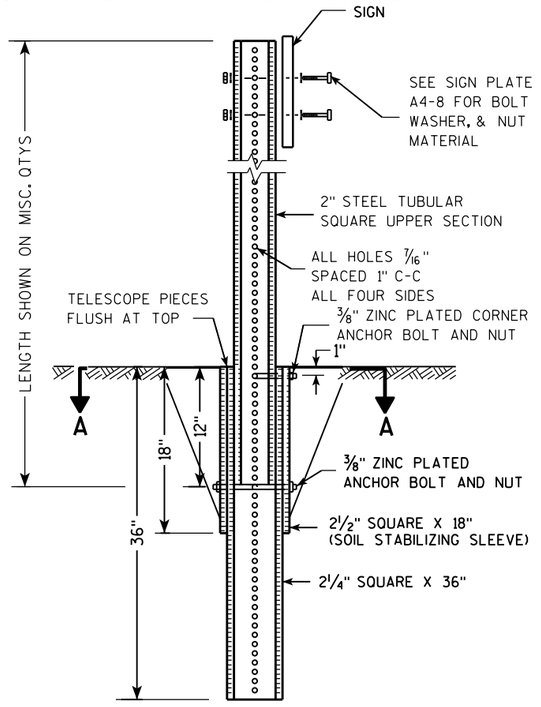
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

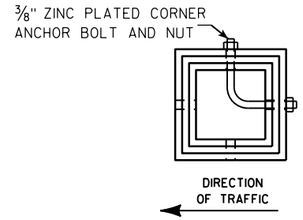


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

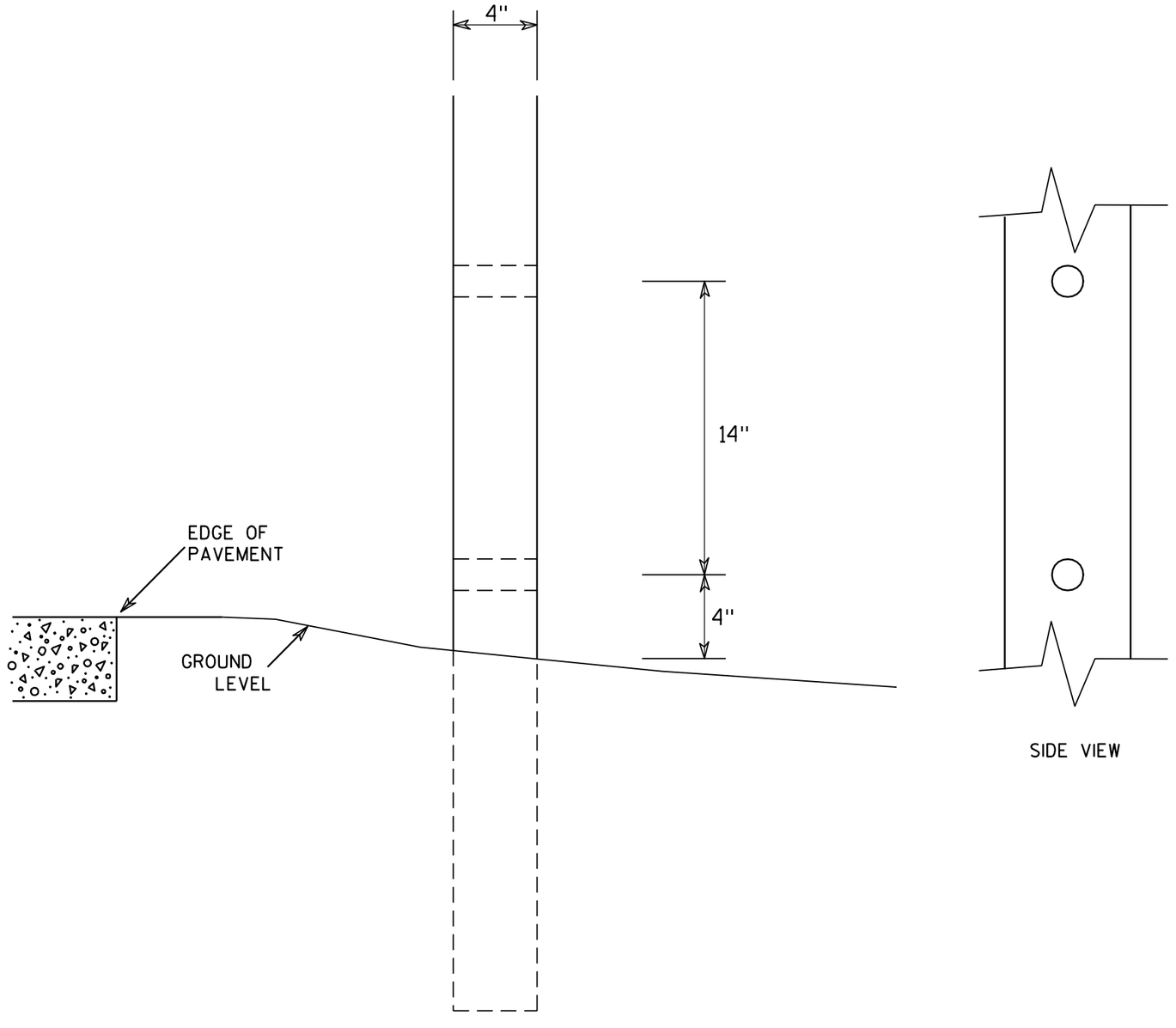
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 681 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

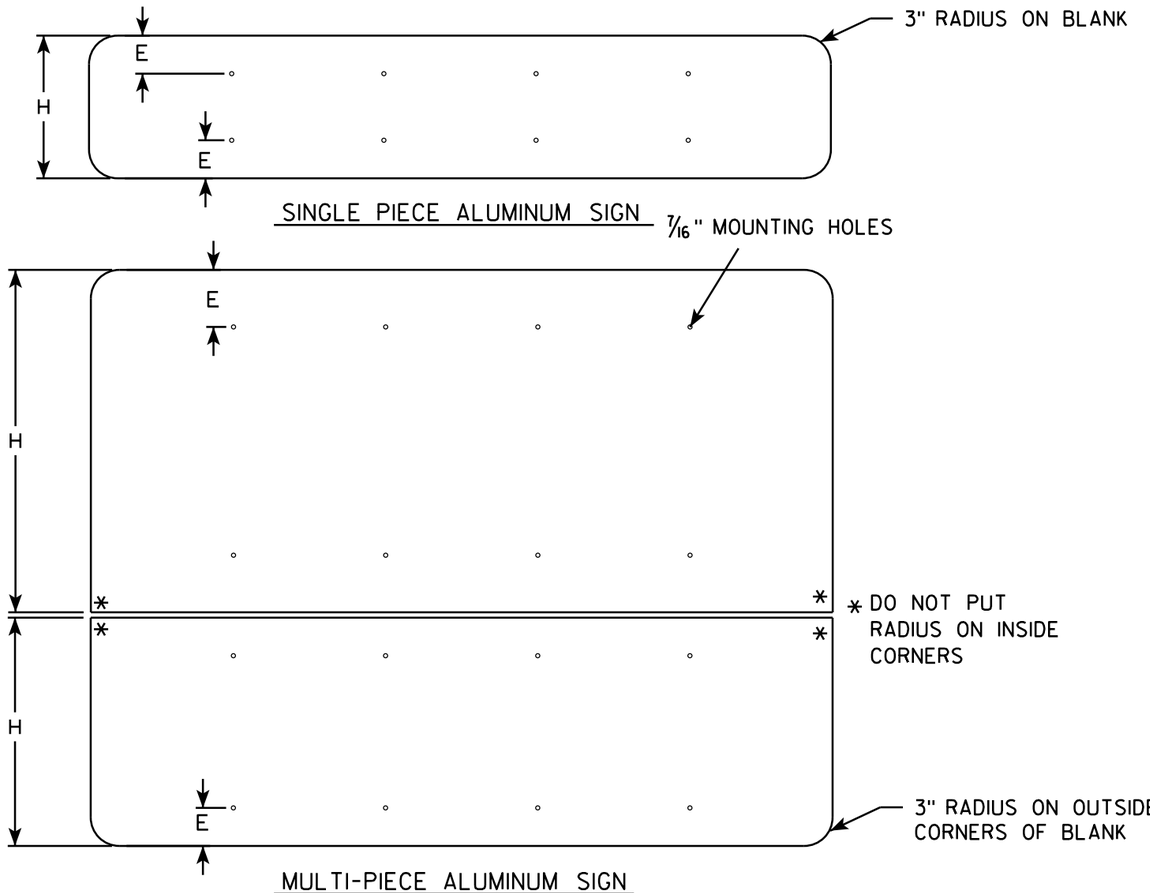
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

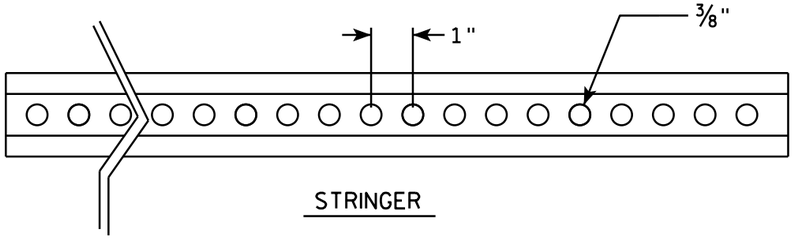
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 682	E



GENERAL NOTES

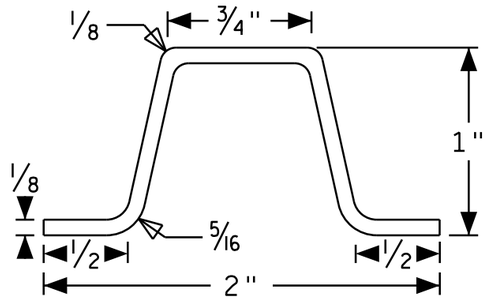
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

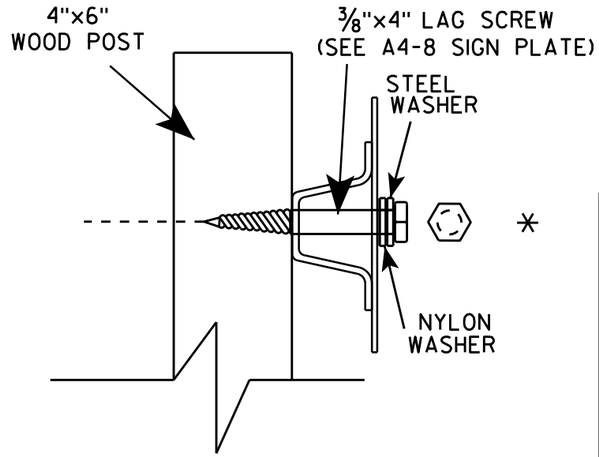


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

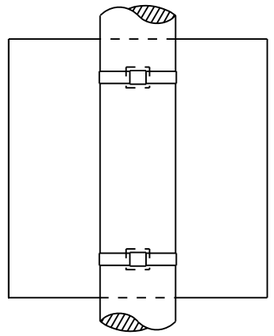
DATE 4/26/16 PLATE NO A4-18.1

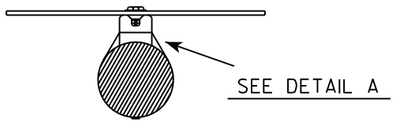
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

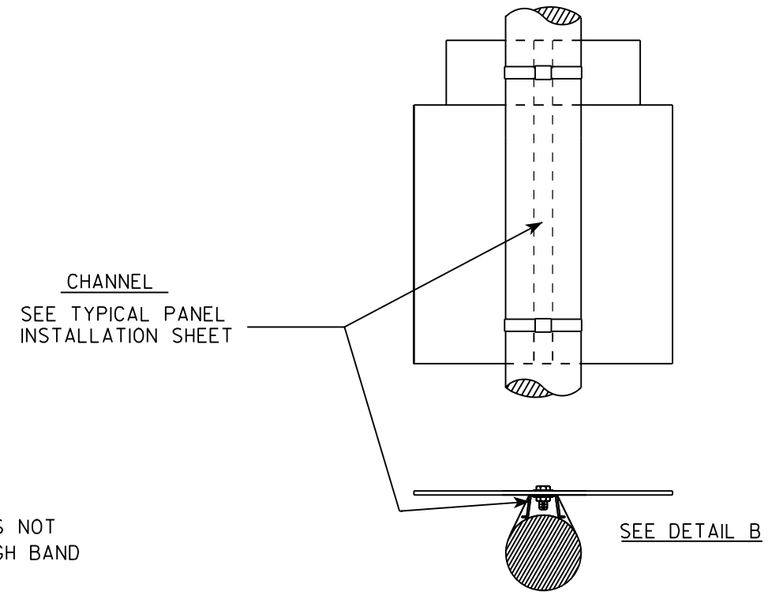
BANDING

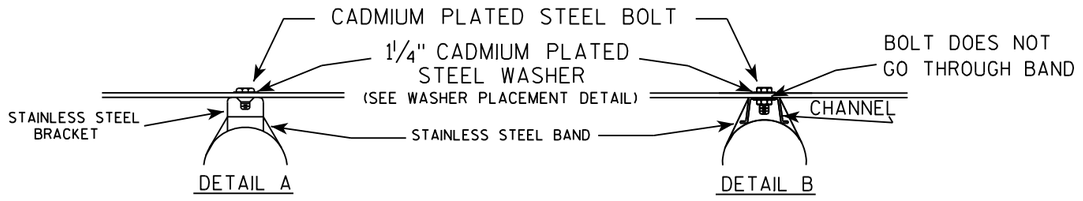
SINGLE SIGN



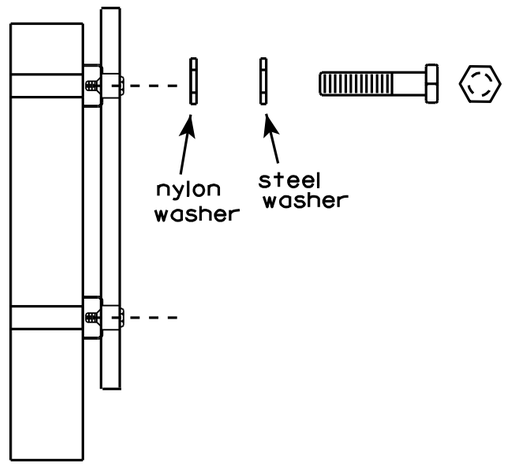


"J" ASSEMBLY





WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.

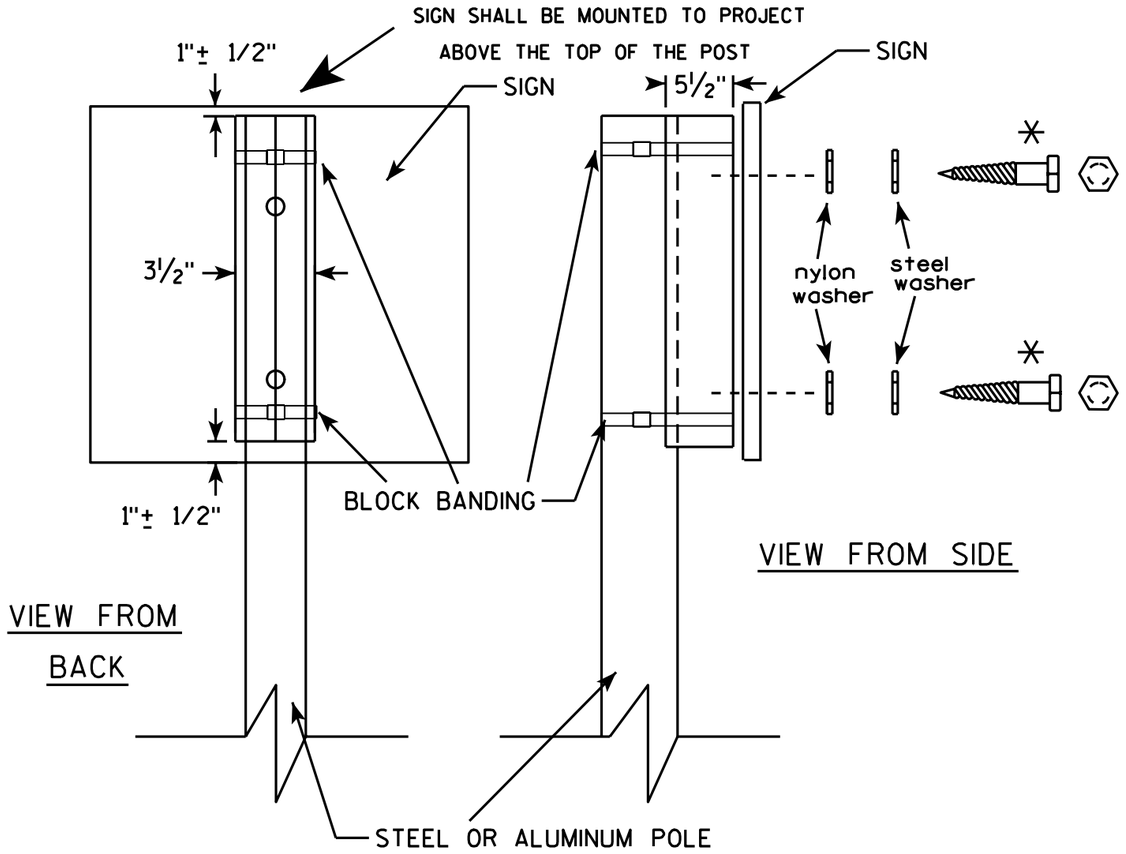
STANDARD SIGN
SIGN BANDING DETAILS

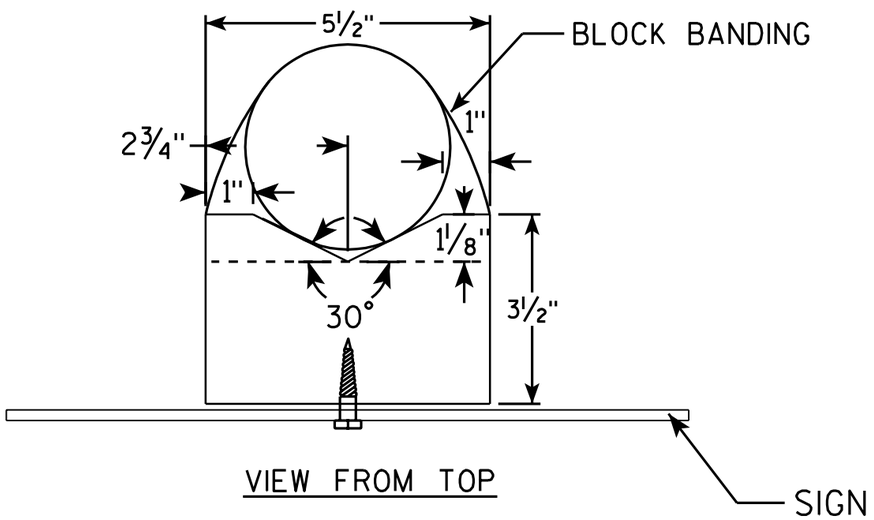
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 684	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

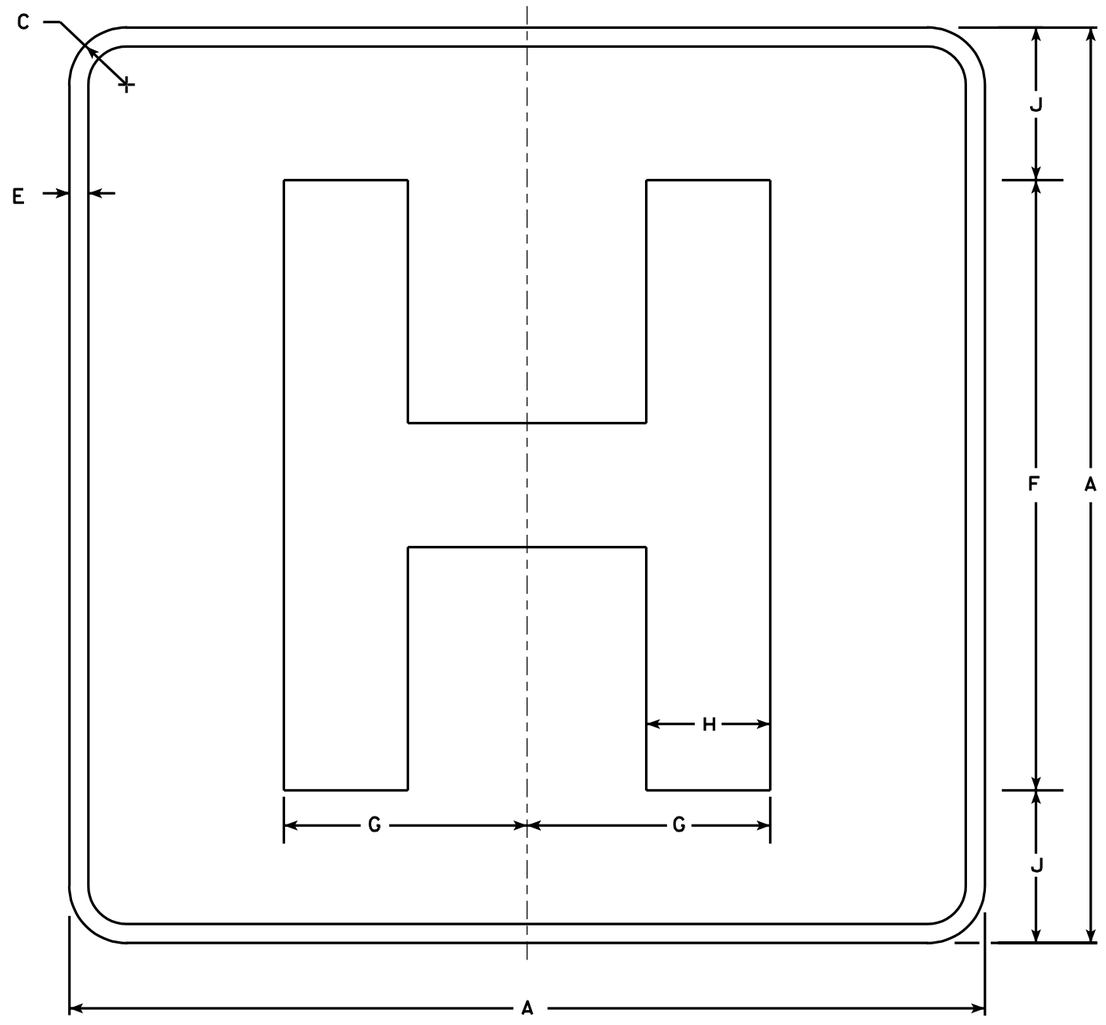
DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

SHEET NO: 685 E

FILE NAME : C:\Users\Projects\tr_stdplate\A510.dgn PLOT DATE : 06-AUG-2007 13:37 PLOT BY : ditjph

WISDOT/CADDS SHEET 42



D9-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Blue
   Message - White - Type H Reflective
3. Message Series - E Modified
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	450 mmX 450 mm
2	600 mmX 600 mm
3	900 mmX 900 mm
4	X
5	X

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18		1 1/8		1/2	12	4 3/4	2 3/8		3																	4.0
2	24		1 1/2		1/2	16	6 3/8	3 1/4		4																	4.0
3	36		2 1/4		3/4	24	9 1/2	4 7/8		6																	9.0
4																											
5																											

STANDARD SIGN
D9-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spong for State Traffic Engineer

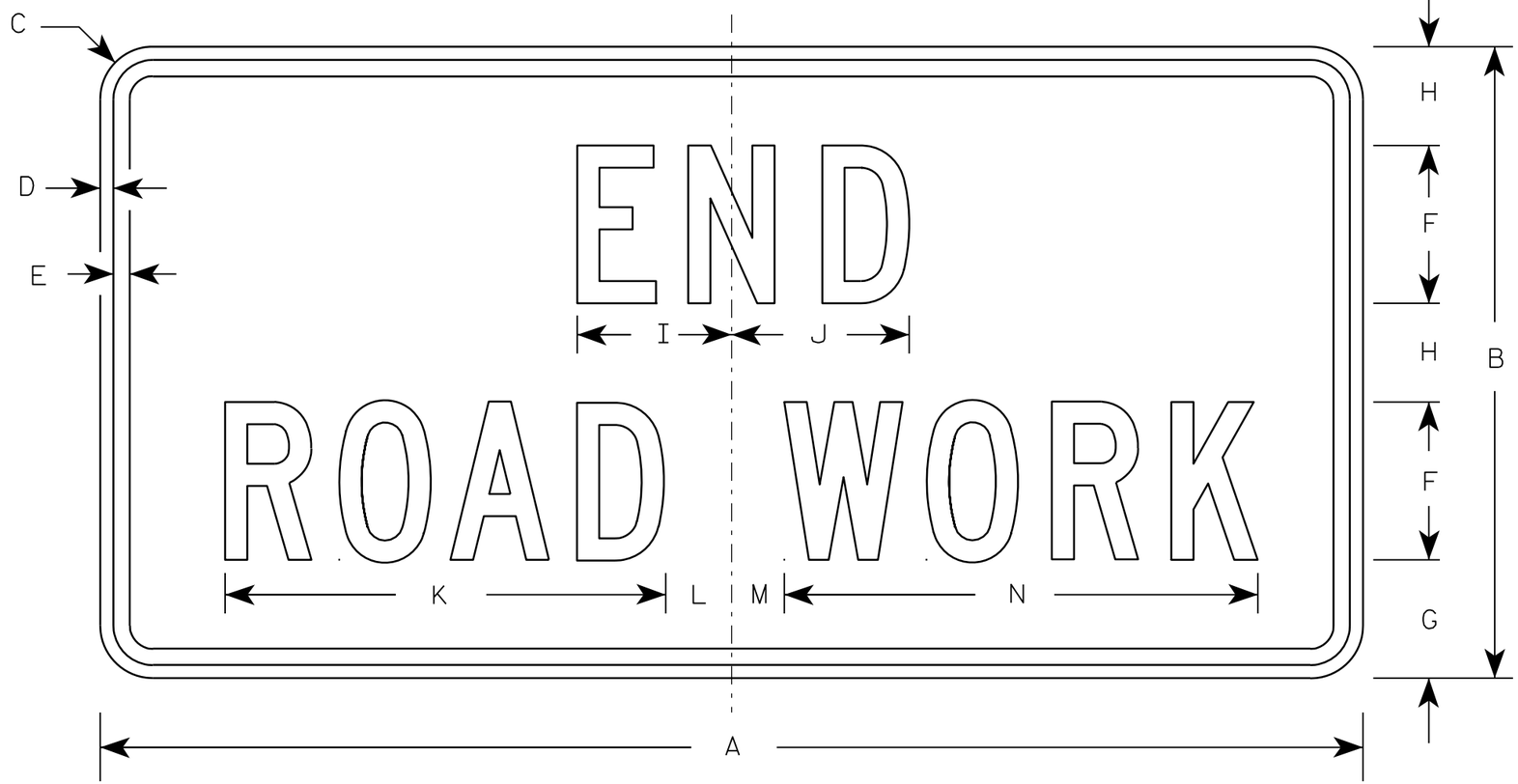
DATE 1/15/02 PLATE NO. D9-2.4

PROJECT NO:

SHEET NO: 686 E

FILE NAME : C:\Users\Projects\tr_stdplate\D92.DGN PLOT DATE : 21-OCT-2005 10:28 PLOT BY : DOTSJA

WISDOT/CADDS SHEET 42



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

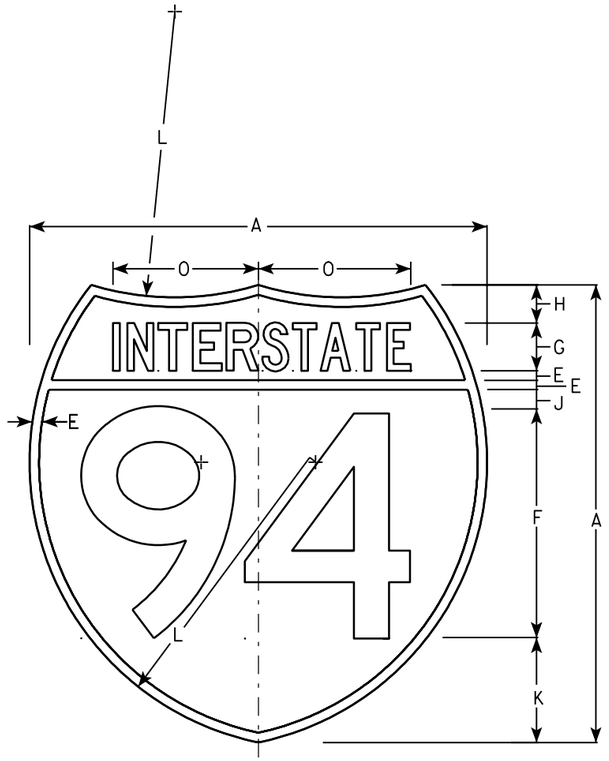
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

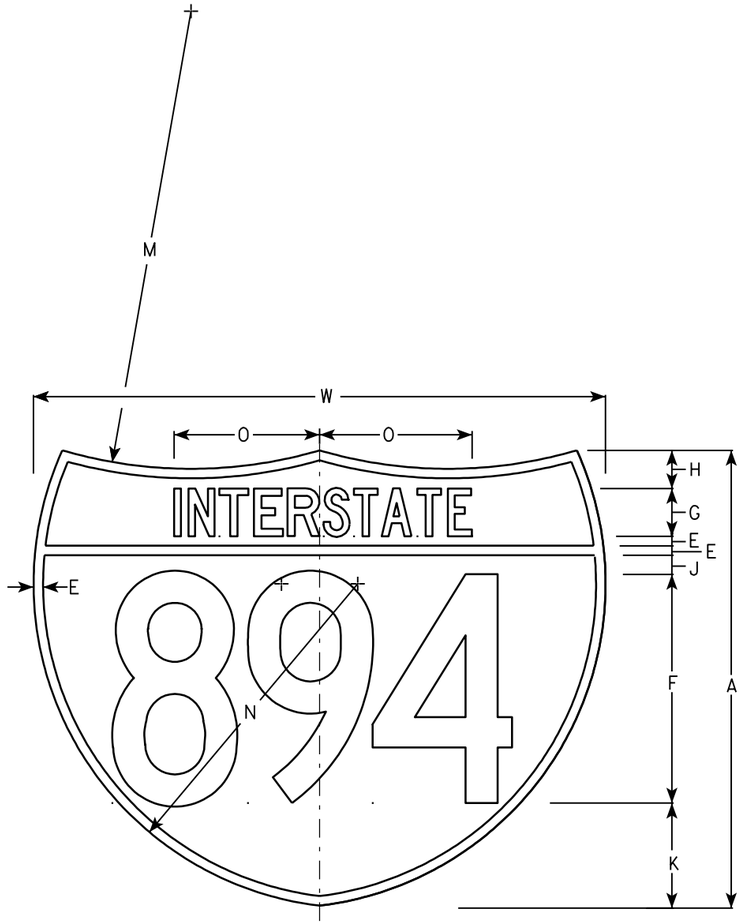
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 687	E



M1-1



M1-1A

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Top Red - Bottom Blue (See Note 6)
   Message - White - See Note 6
3. Message Series - See note 5
4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
5. M1-1 - Numerals - D
   Interstate - C
   M1-1A - All copy - C
6. Permanent Signs
   Message - Type H Reflective
   Detour or other temporary signs
   Background - Reflective
   Message - Reflective

Metric equivalent for these signs are:

SIZE	M1-1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	M1-1 Area sq. ft.	M1-1A Area sq. ft.	M1-1 Area m2	M1-1A Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91	.36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05

INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

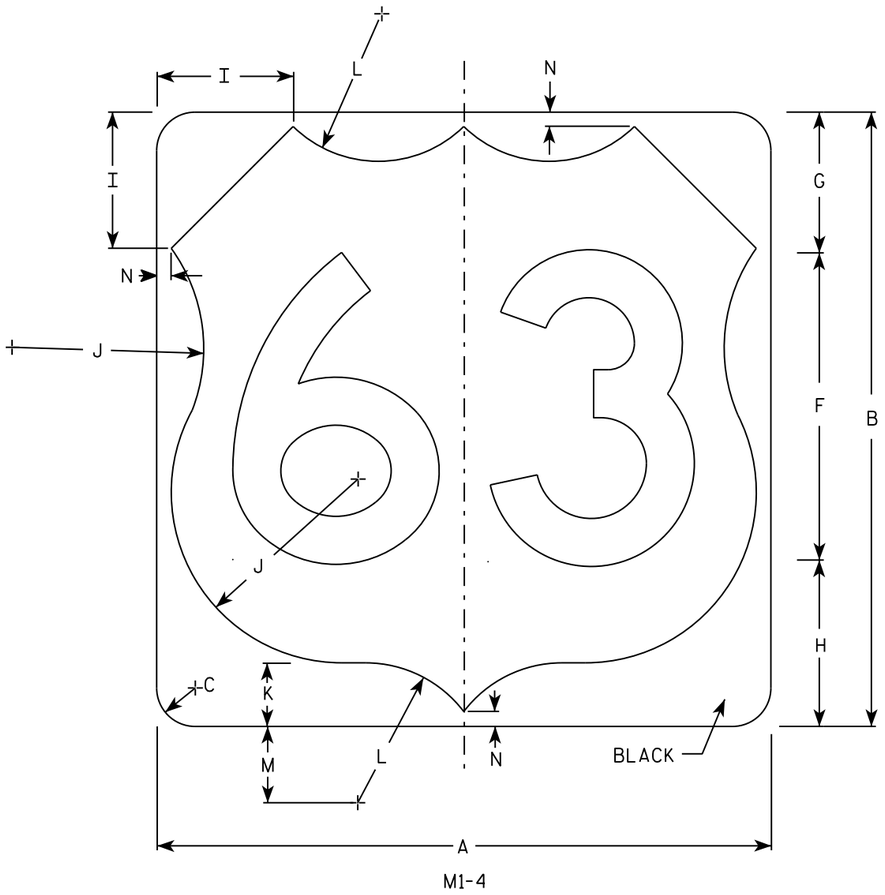
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/23/05 PLATE NO. M1-1.8

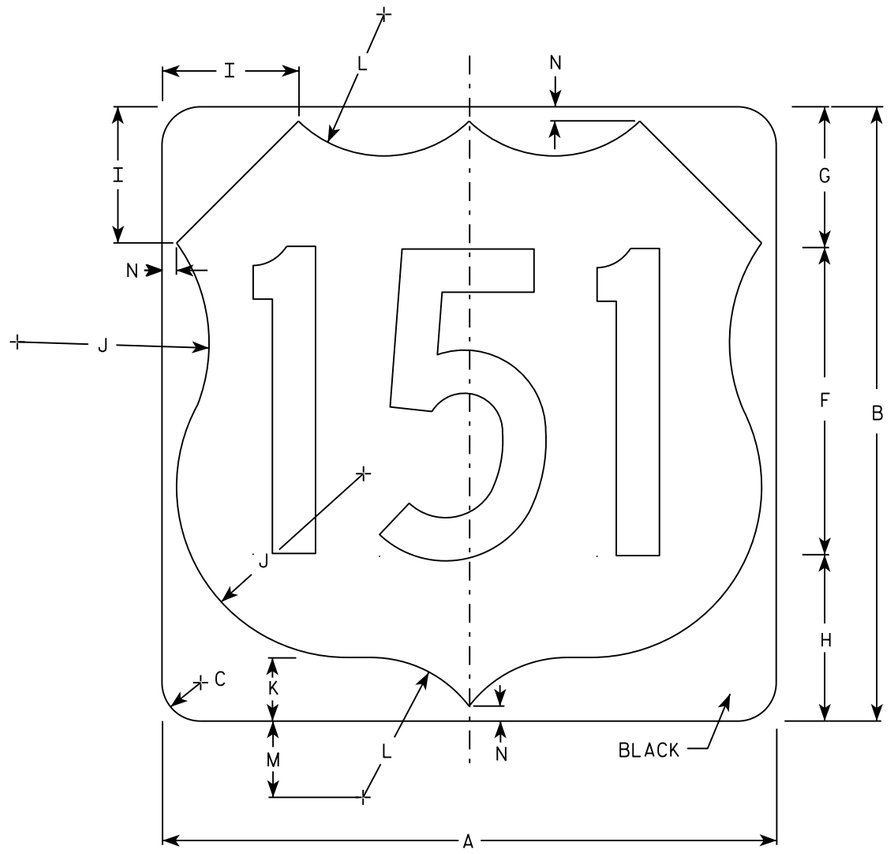
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 688	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



M1-4



M1-4

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area Sq. ft.
1																											
2	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0

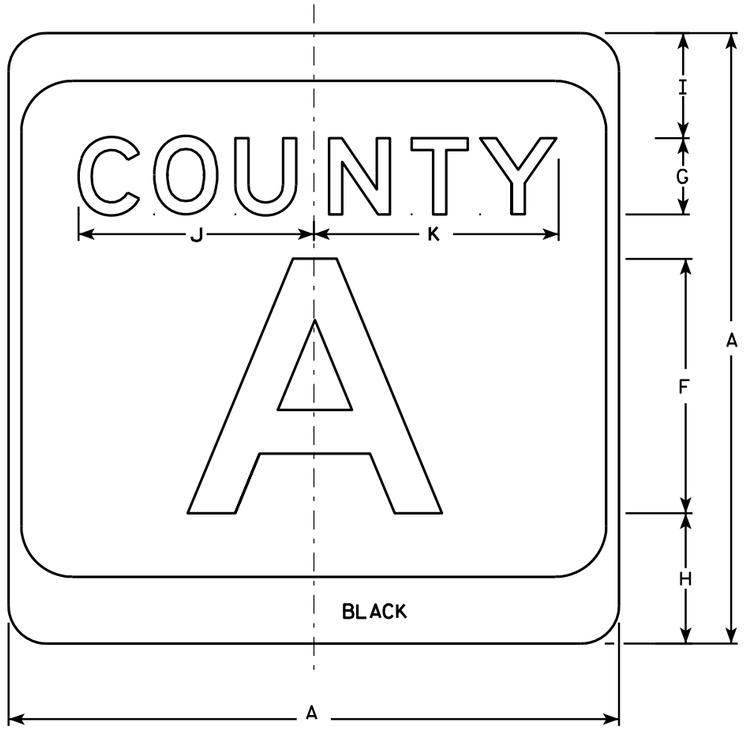
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

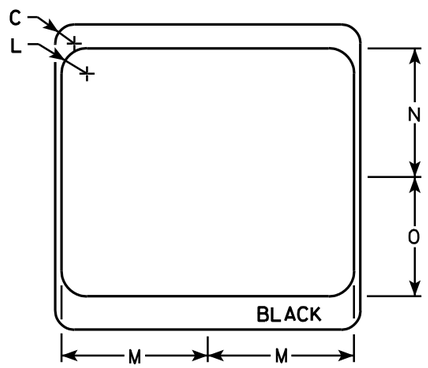
APPROVED Matthew R Rauch
for State Traffic Engineer

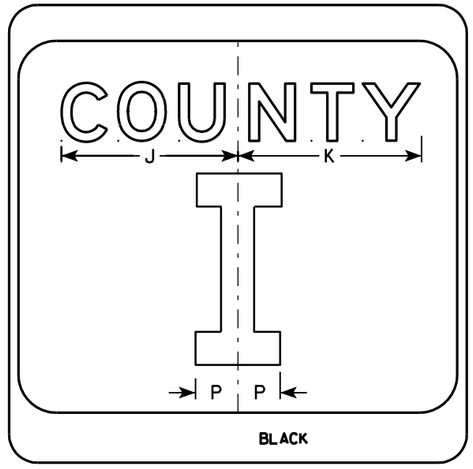
DATE 3/16/18 PLATE NO. M1-4.10

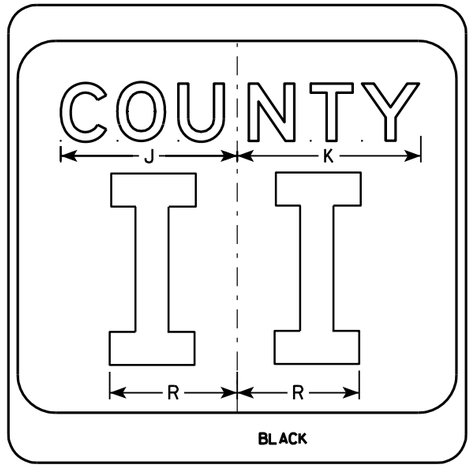
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 689	E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

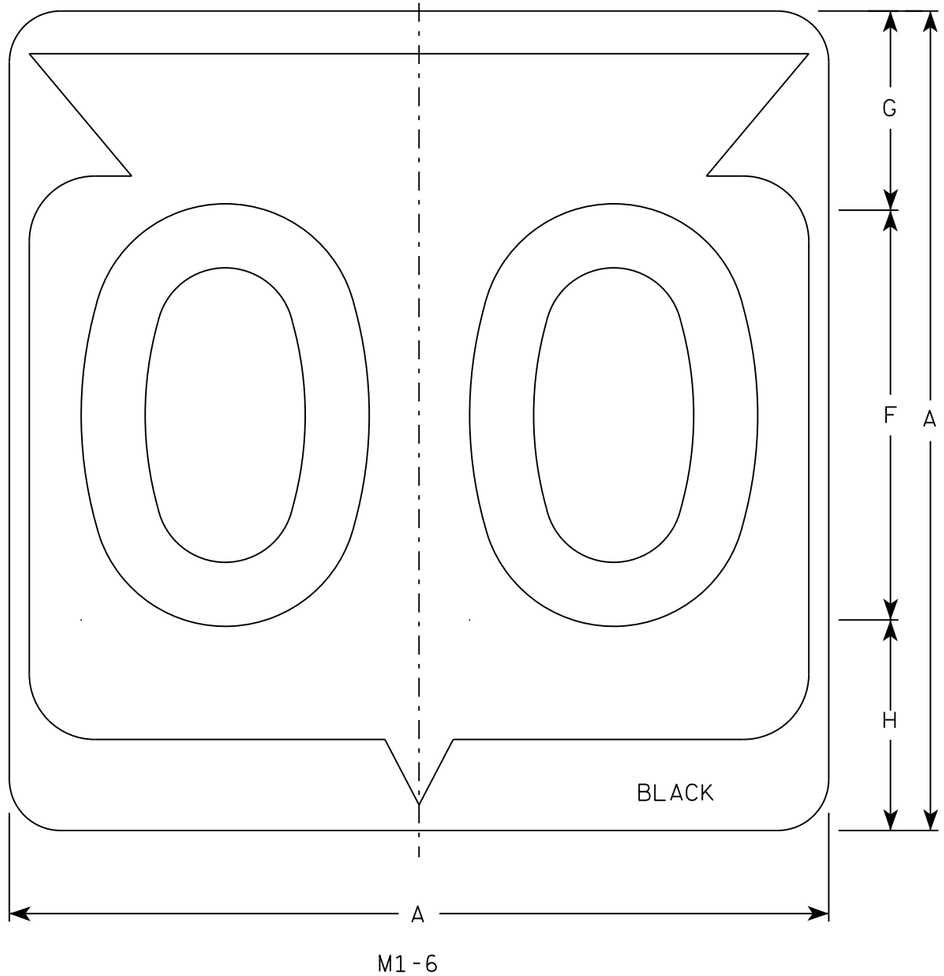
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

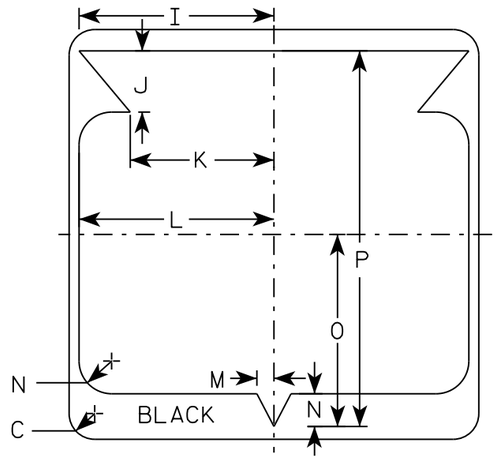
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 690	E



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 691 E

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White - Graphics - White
   Circle Tour Message is Green
3. Message Series - Special
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24			1 1/8	1/2																						4.0	.36
3																												
4	36			1 5/8	3/4																						9.0	.81
5																												

STANDARD SIGN
M1-93

WISCONSIN DEPT OF TRANSPORTATION

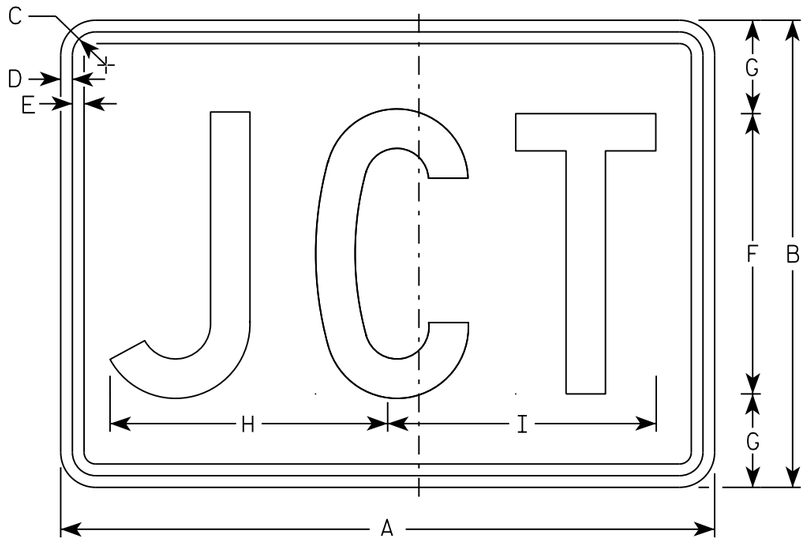
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/5/15 PLATE NO. M1-93.2

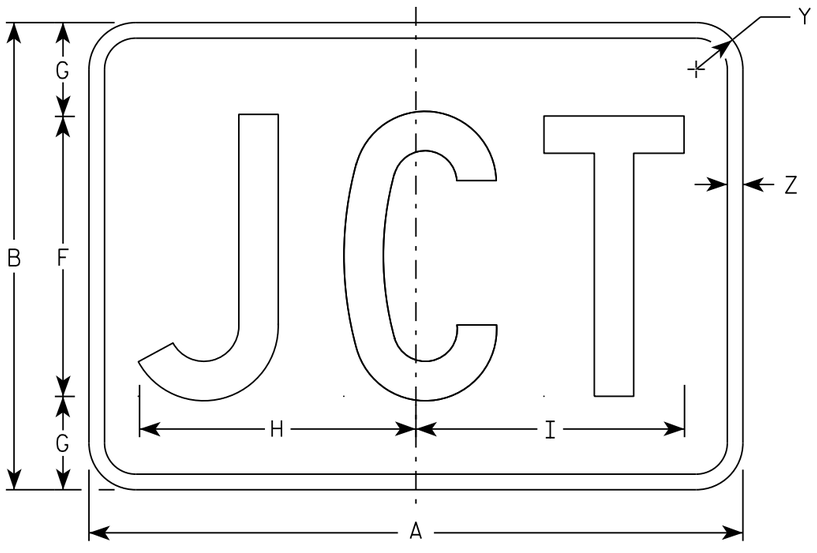
692

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M193.DGN PLOT DATE : 01-DEC-2015 18:00 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.837526:1.000000



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN
M2-1

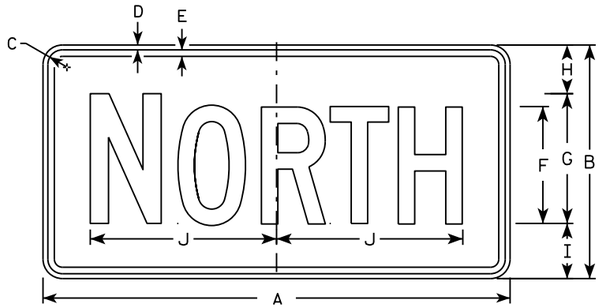
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

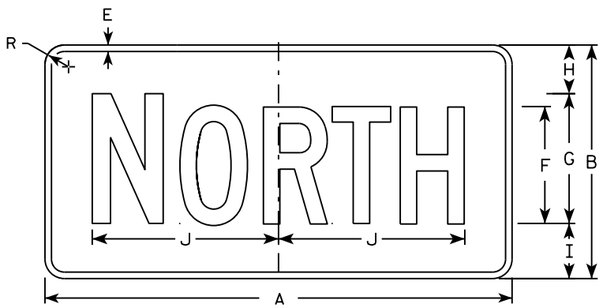
DATE 10/15/15 PLATE 693 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



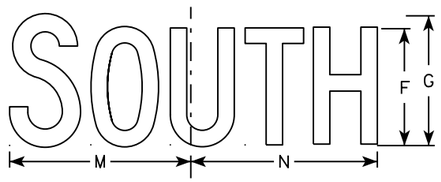
M3-1
MM3-1
MP3-1



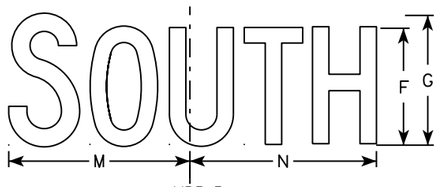
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

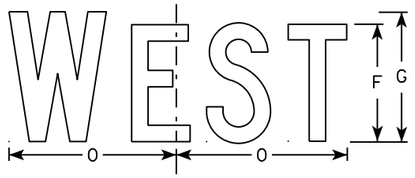
MB3-2
MK3-2
MN3-2



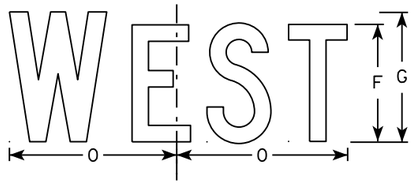
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

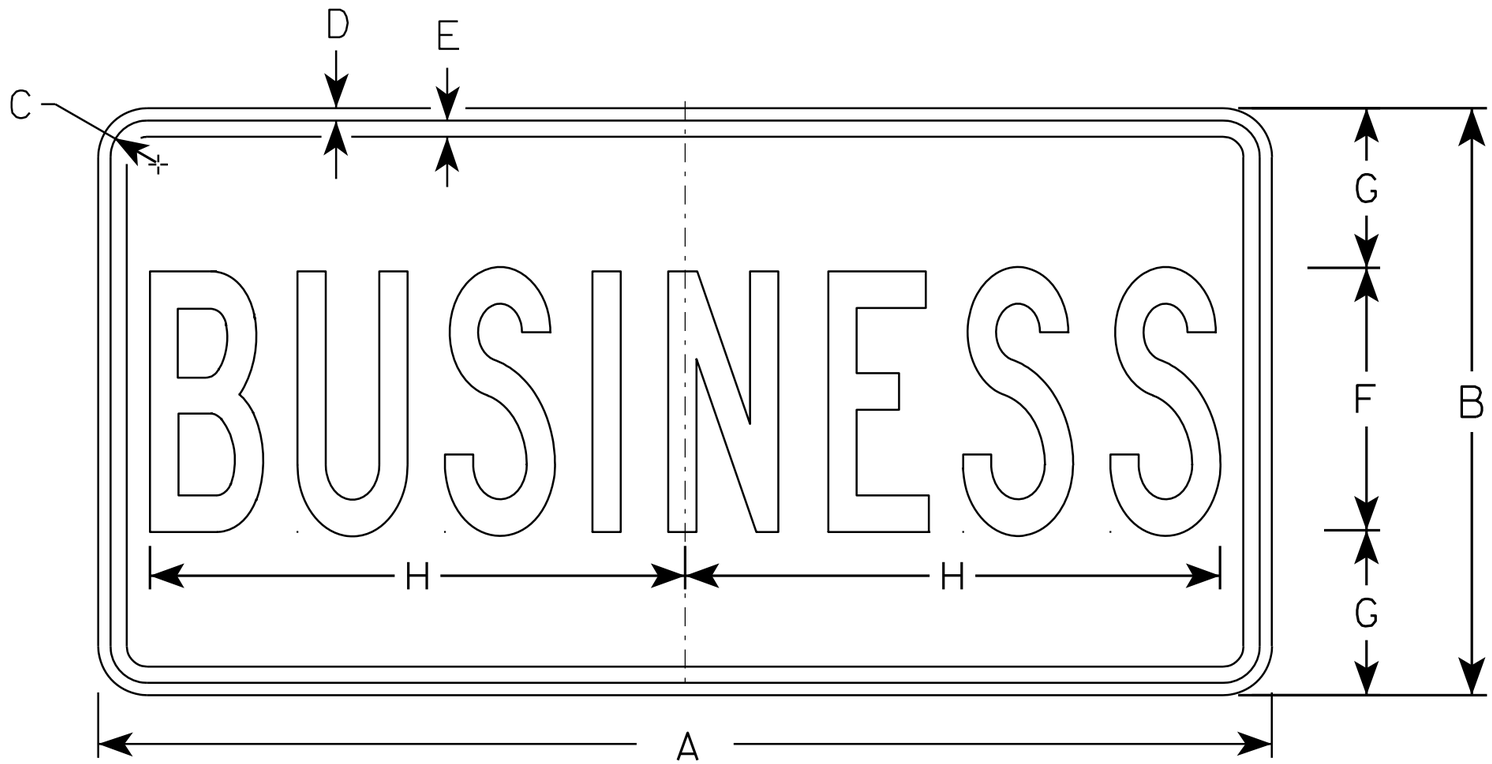
APPROVED Matthew P Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000

7



M4-3

NOTES

1. Sign is Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White - See Note 5
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Permanent Signs
   Background - Type H Reflective
   Detour or other temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	5	3 1/2	9 5/8																			2.0
3	36	18	1 1/8	3/8	1/2	8	5	16 3/8																			4.5
4																											
5																											

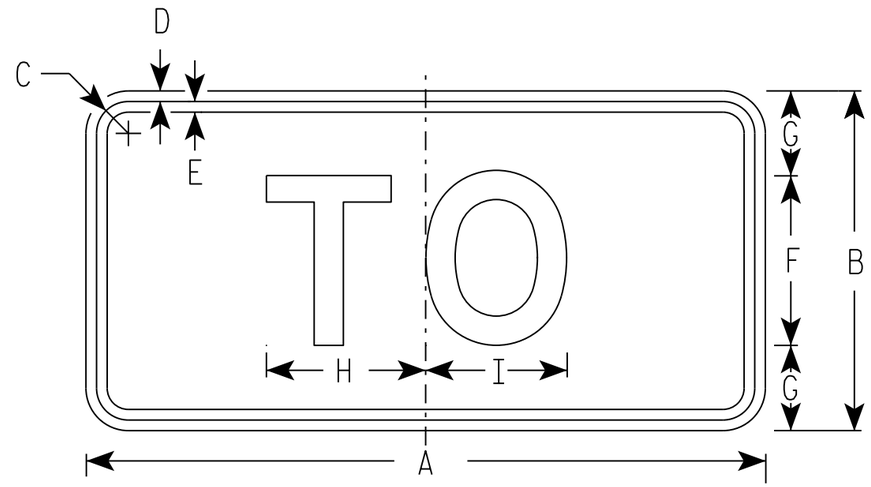
STANDARD SIGN
M4-3

WISCONSIN DEPT OF TRANSPORTATION

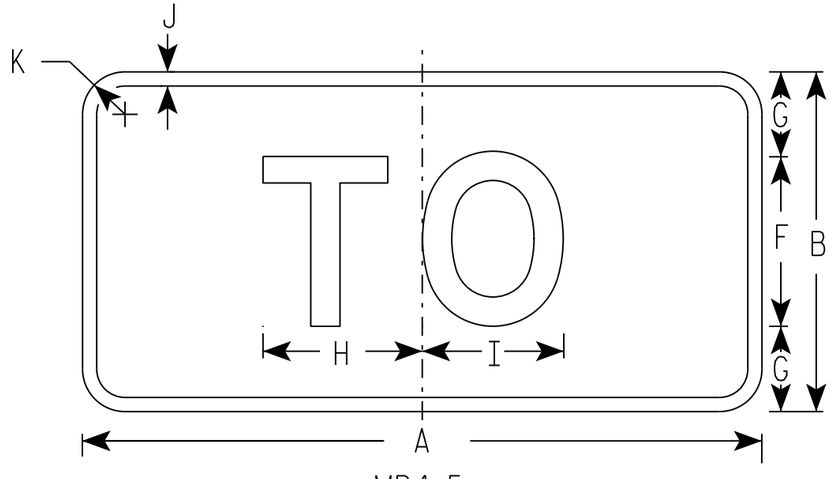
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-3.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 695 | E



M4-5
MM4-5
MP4-5



MB4-5
MK4-5
MN4-5

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-5 Background - White
   Message - Black

   MB4-5 Background - Blue
   Message - White

   MK4-5 Background - Green
   Message - White

   MM4-5 Background - White
   Message - Green

   MN4-5 Background - Brown
   Message - White

   MP4-5 Background - White
   Message - Blue

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5

STANDARD SIGN
M4-5

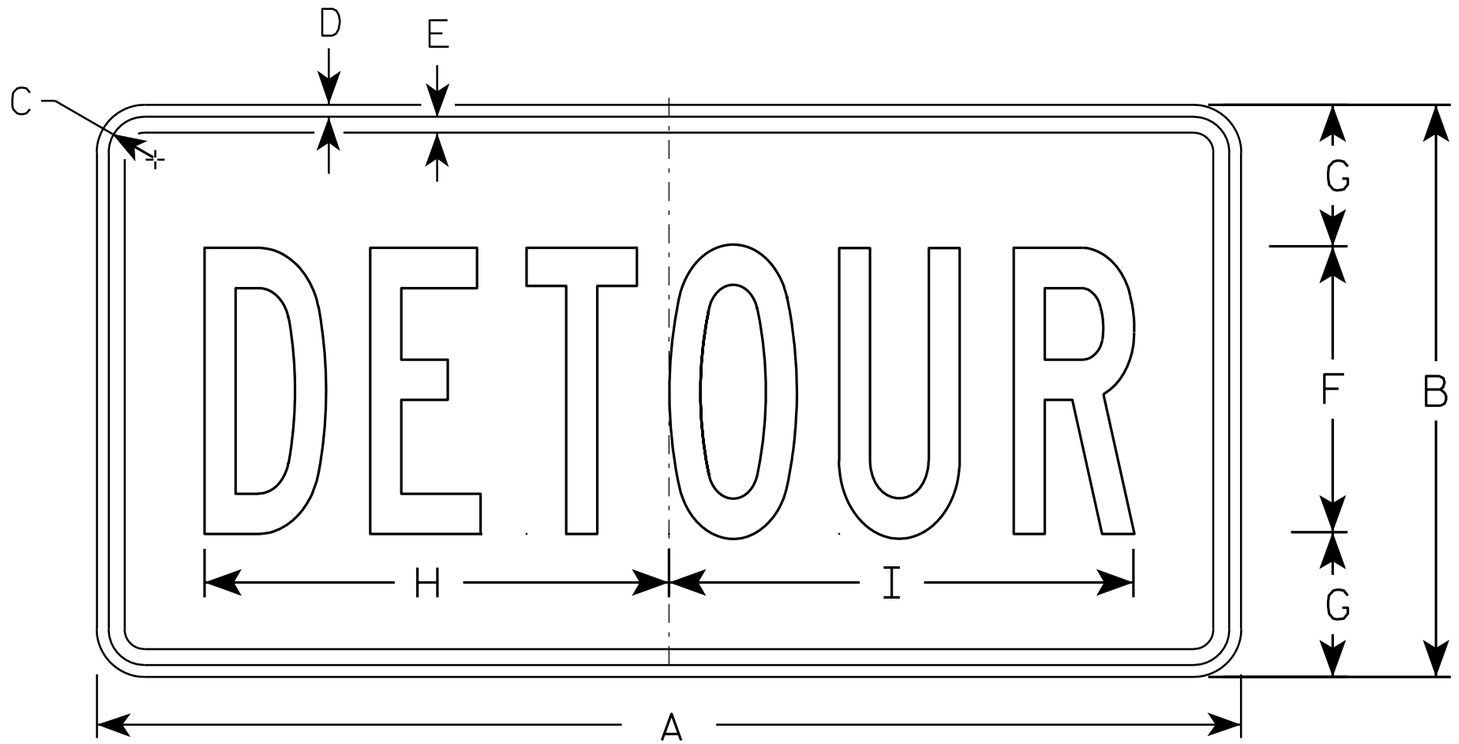
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 696 M4-5.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M45.DGN PLOT DATE : 01-DEC-2015 17:55 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.351066:1.000000



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

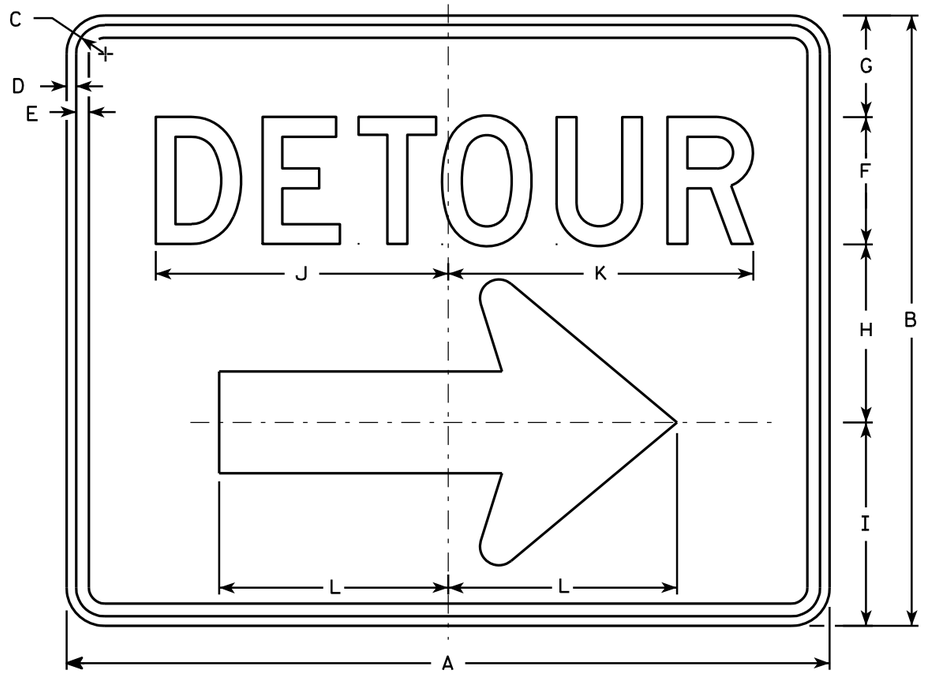
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

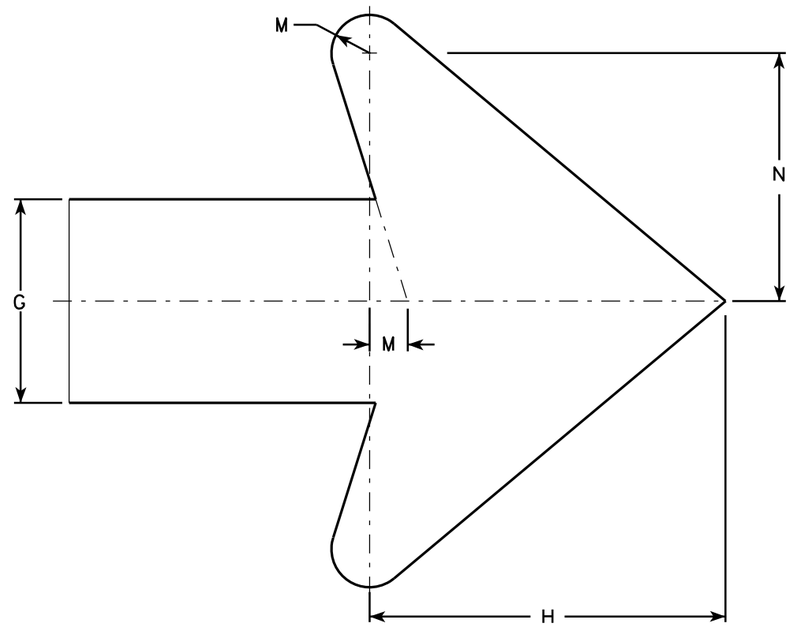
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 697	E



M4-9R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-9L is the same as M4-9R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/8	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 3/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

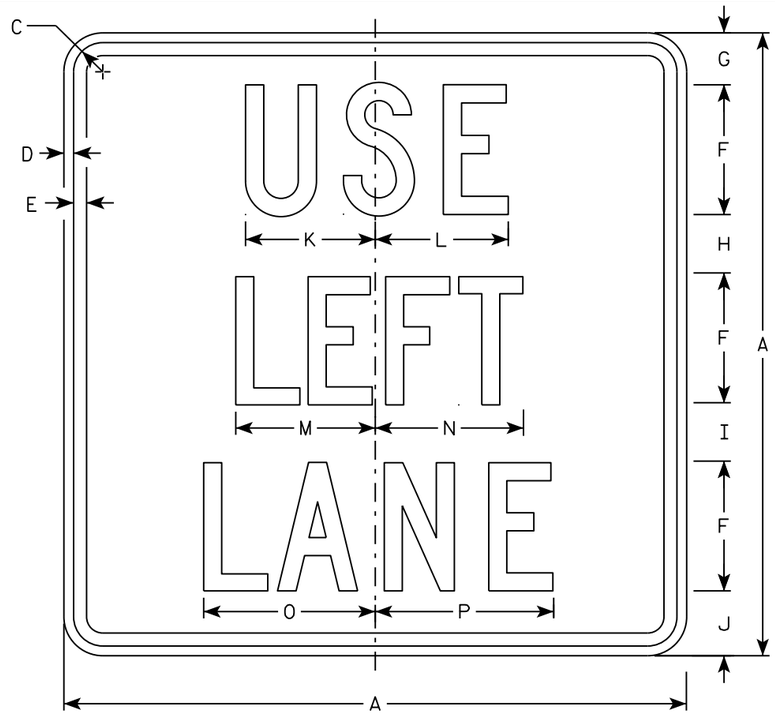
STANDARD SIGN
M4-9 R & L

WISCONSIN DEPT OF TRANSPORTATION

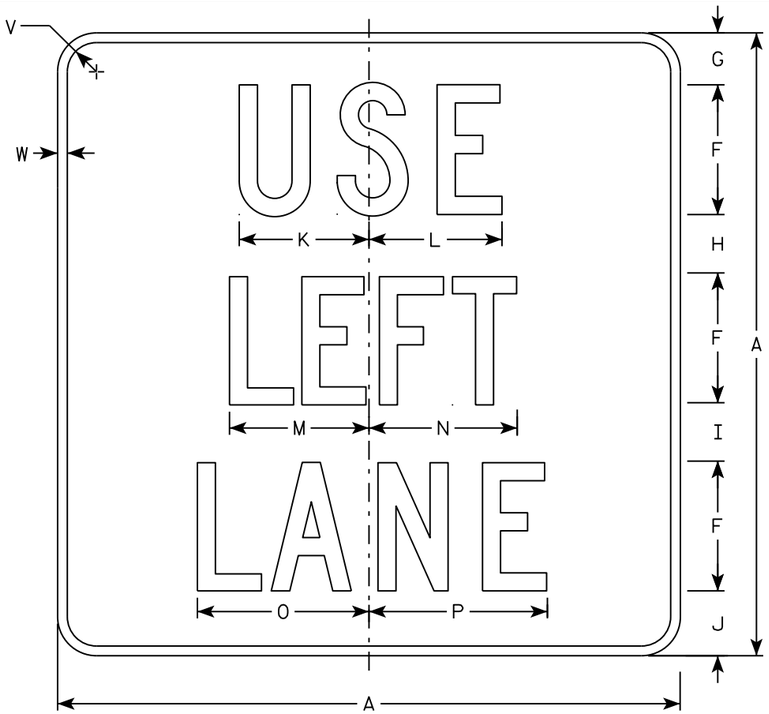
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-9R.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 698	E



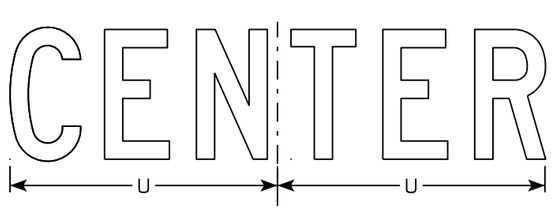
M4-20L



MB4-20L

M4-20L
MM4-20L
M04-20L
MP4-20L

MB4-20L
MK4-20L
MN4-20L
MR4-20L



M4-20C
MB4-20C
MK4-20C
MM4-20C
MN4-20C
M04-20C
MP4-20C
MR4-20C

M4-20R
MB4-20R
MK4-20R
MM4-20R
MN4-20R
M04-20R
MP4-20R
MR4-20R

NOTES

1. Sign is Type II - Type H except as Shown
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-20 Background - White
   Message - Black
   MB4-20 Background - Blue
   Message - White
   MK4-20 Background - Green
   Message - White
   MM4-20 Background - White
   Message - Green
   MN4-20 Background - Brown
   Message - White
   M04-20 Background - Orange - Type F Reflective
   Message - Black
   MP4-20 Background - White
   Message - Blue
   MR4-20 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/8	3/8	1/2	5	2	2 1/4	2 1/4	2 1/2	5	5 1/8	5 3/8	5 3/4	6 5/8	6 7/8			7	7 5/8	10 1/4	1 1/2	1/2				4.0
3	36		1 5/8	5/8	3/4	7	4	3	3 1/2	4 1/2	7 1/2	7 3/4	8	8 5/8	9 7/8	10 1/4			10 3/8	11 3/8	14 3/8	1 7/8	1/2				9.0
4																											
5																											

STANDARD SIGN
M4-20

WISCONSIN DEPT OF TRANSPORTATION

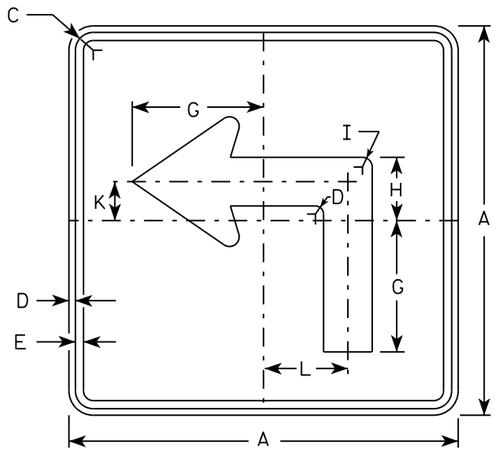
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 10/15/15 PLATE NO M4-20.5

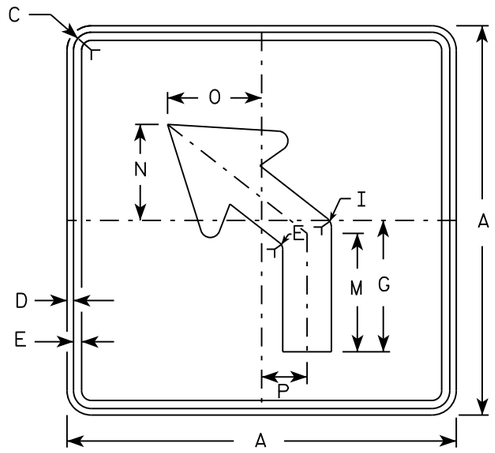
699

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

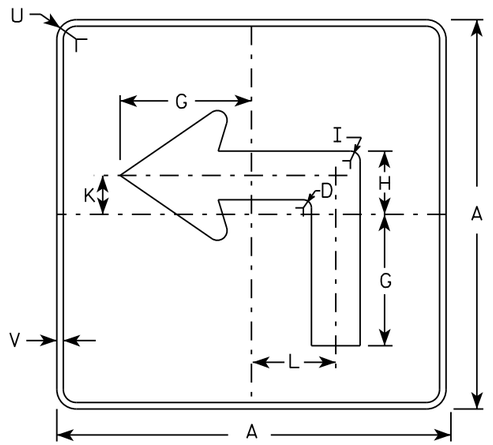
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M420.DGN PLOT DATE : 01-DEC-2015 18:03 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.837526:1.000000



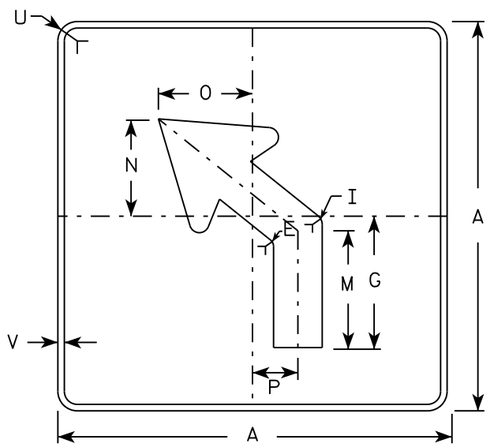
M5-1L
MM5-1L
MO5-1L
MP5-1L



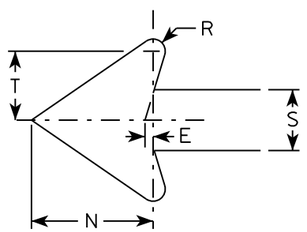
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

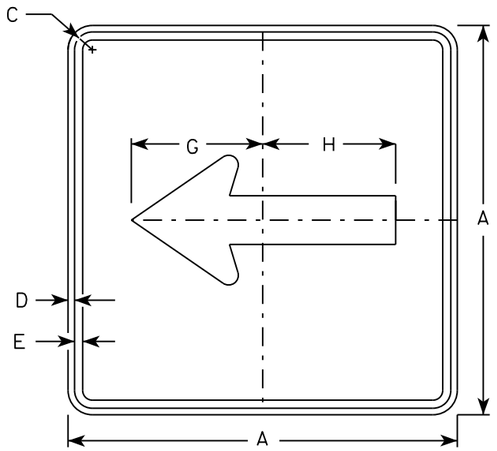
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

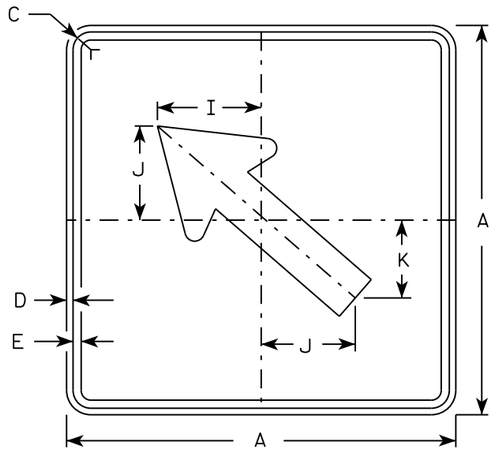
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



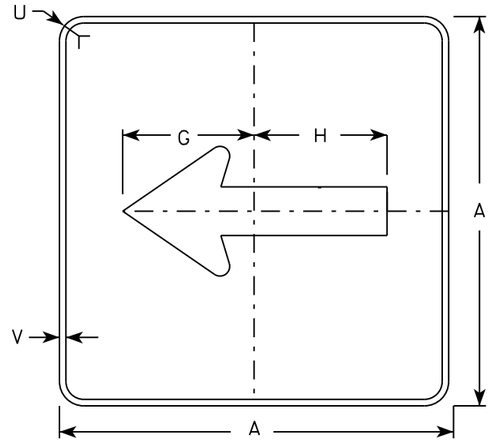
M6-1
MM6-1
MO6-1
MP6-1



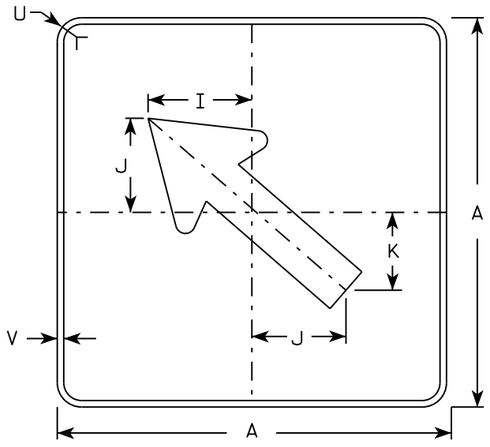
M6-2
MM6-2
MO6-2
MP6-2

NOTES

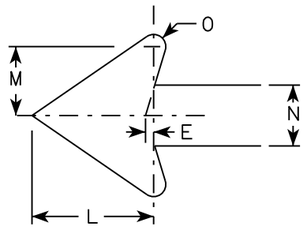
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN M6-1 & M6-2 SERIES

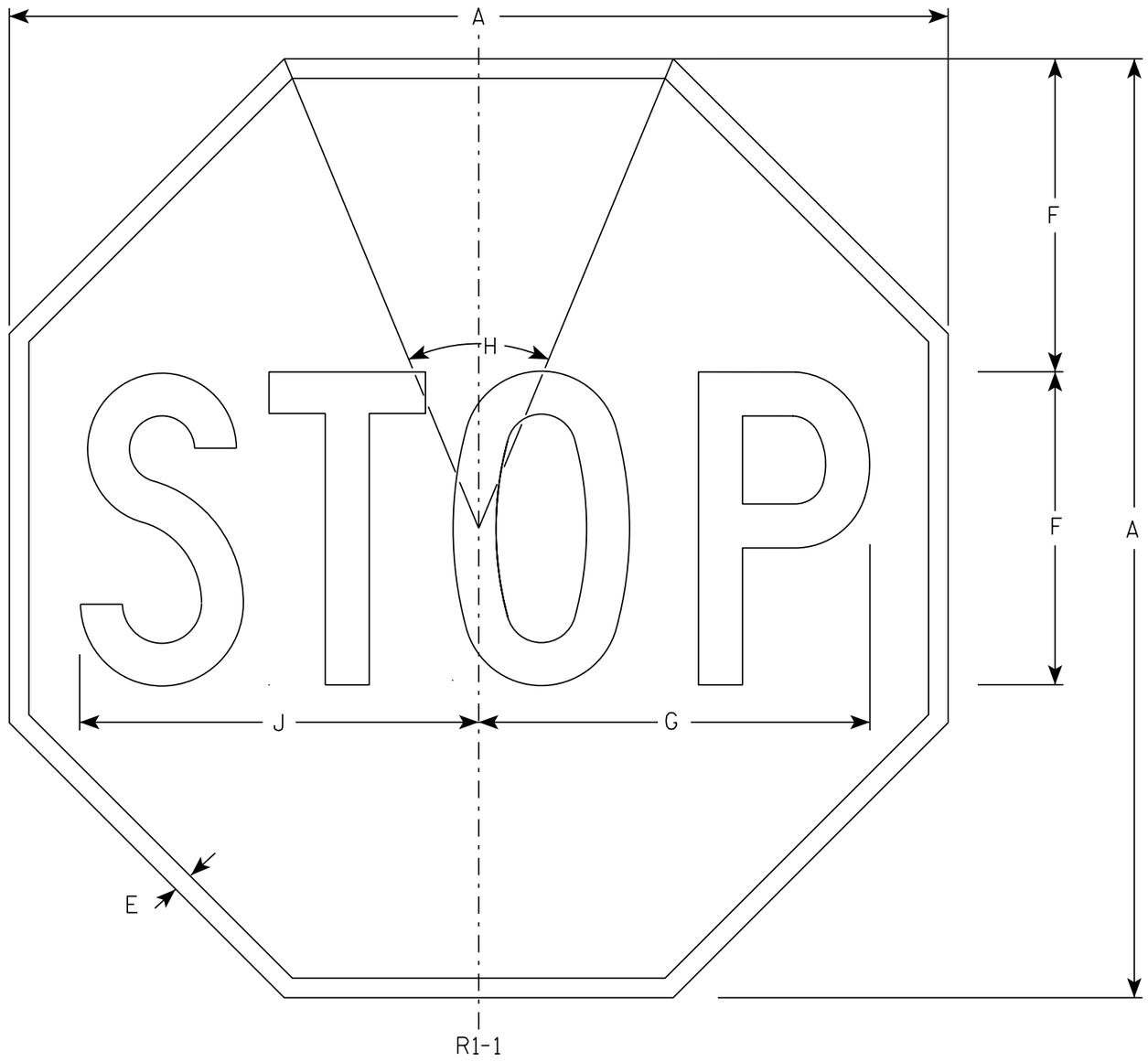
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 701 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

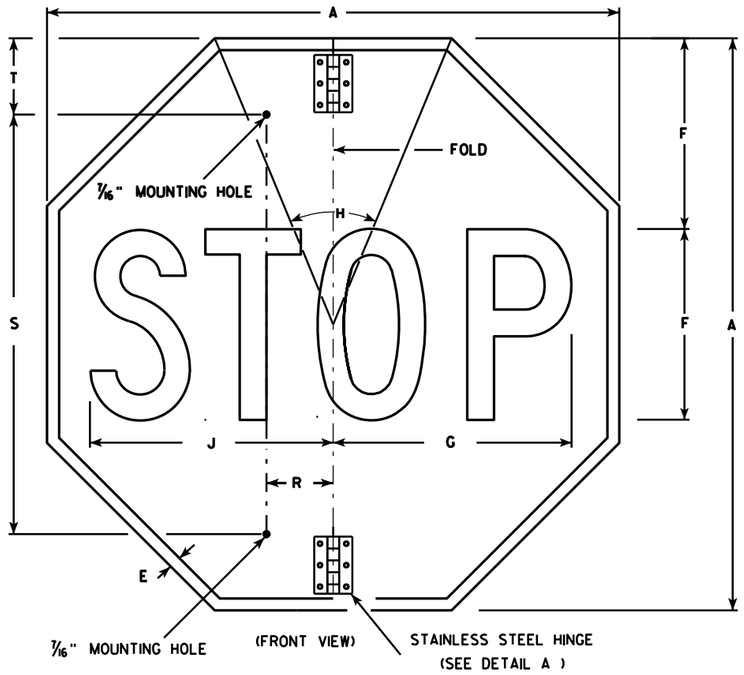
STANDARD SIGN
R1-1

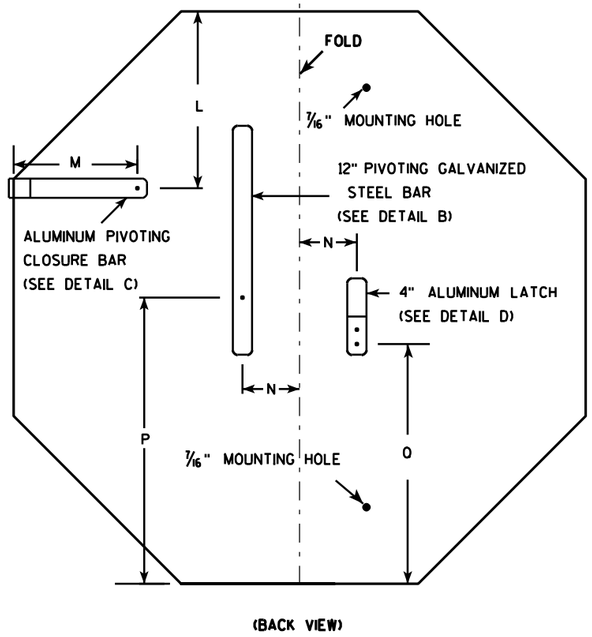
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

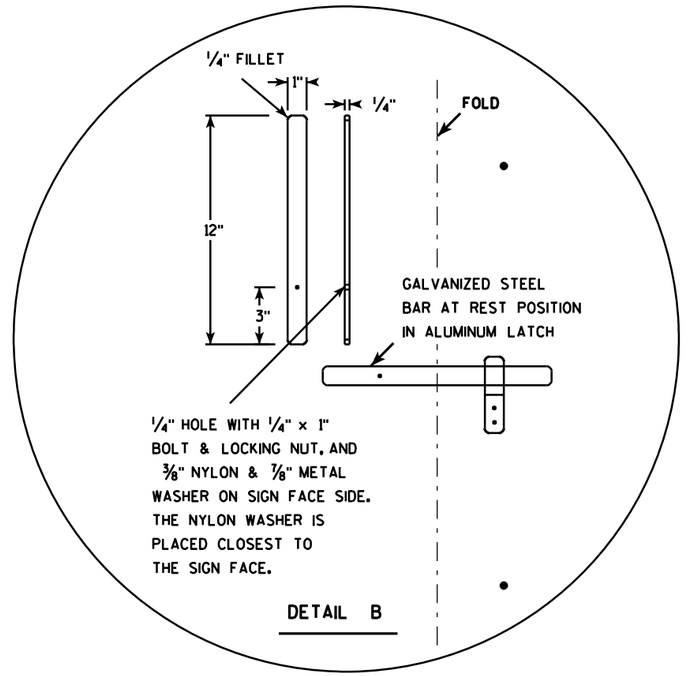
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 702	E

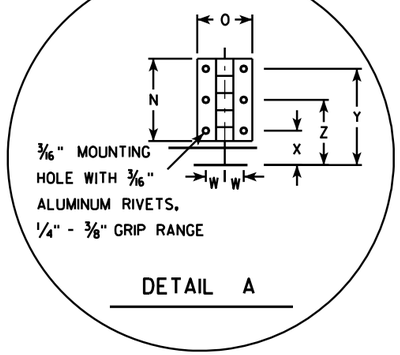


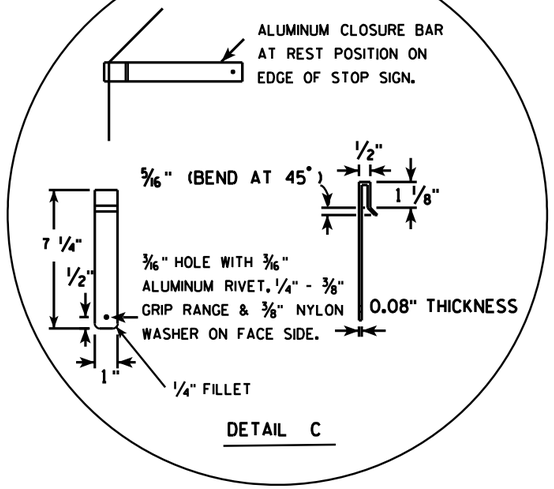


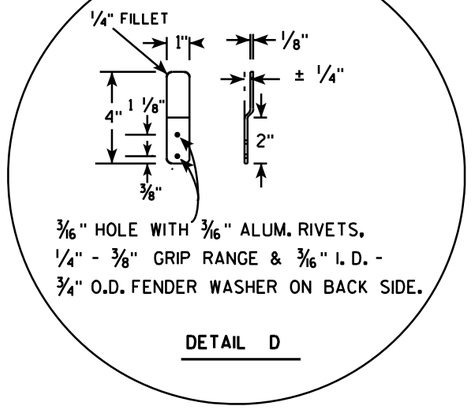
NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.









SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

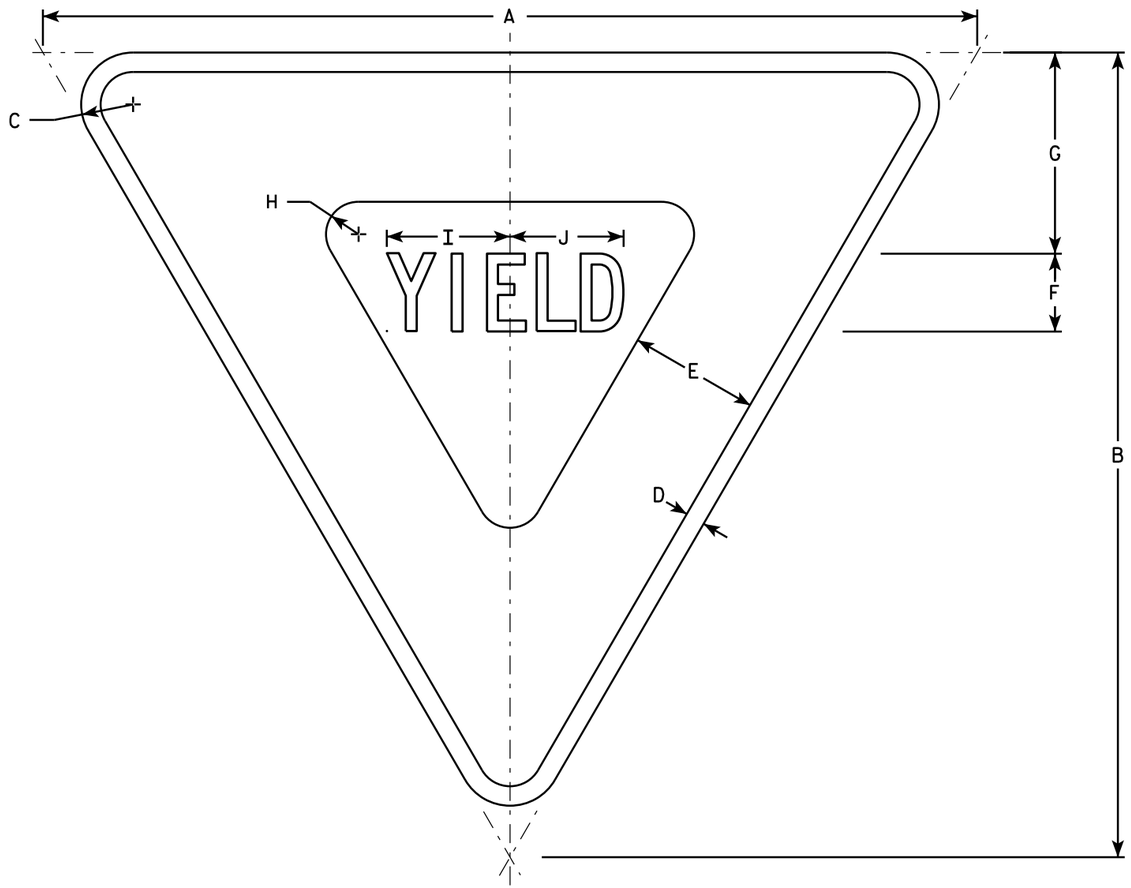
STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 703	E



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

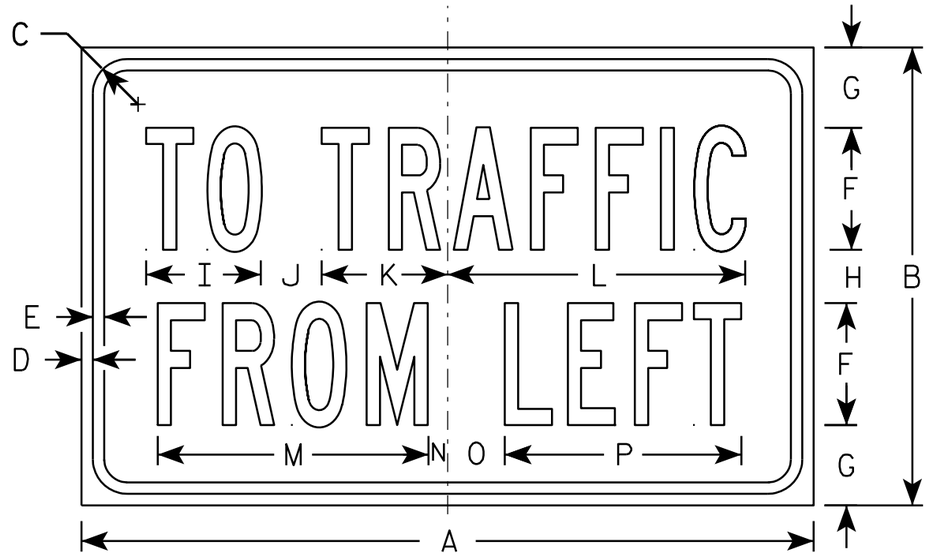
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE P1-2.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R12.DGN PLOT DATE : 13-OCT-2014 15:12 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000
WISDOT/CADDS SHEET 42



R1-54

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
2M	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
3																											
4																											
5																											

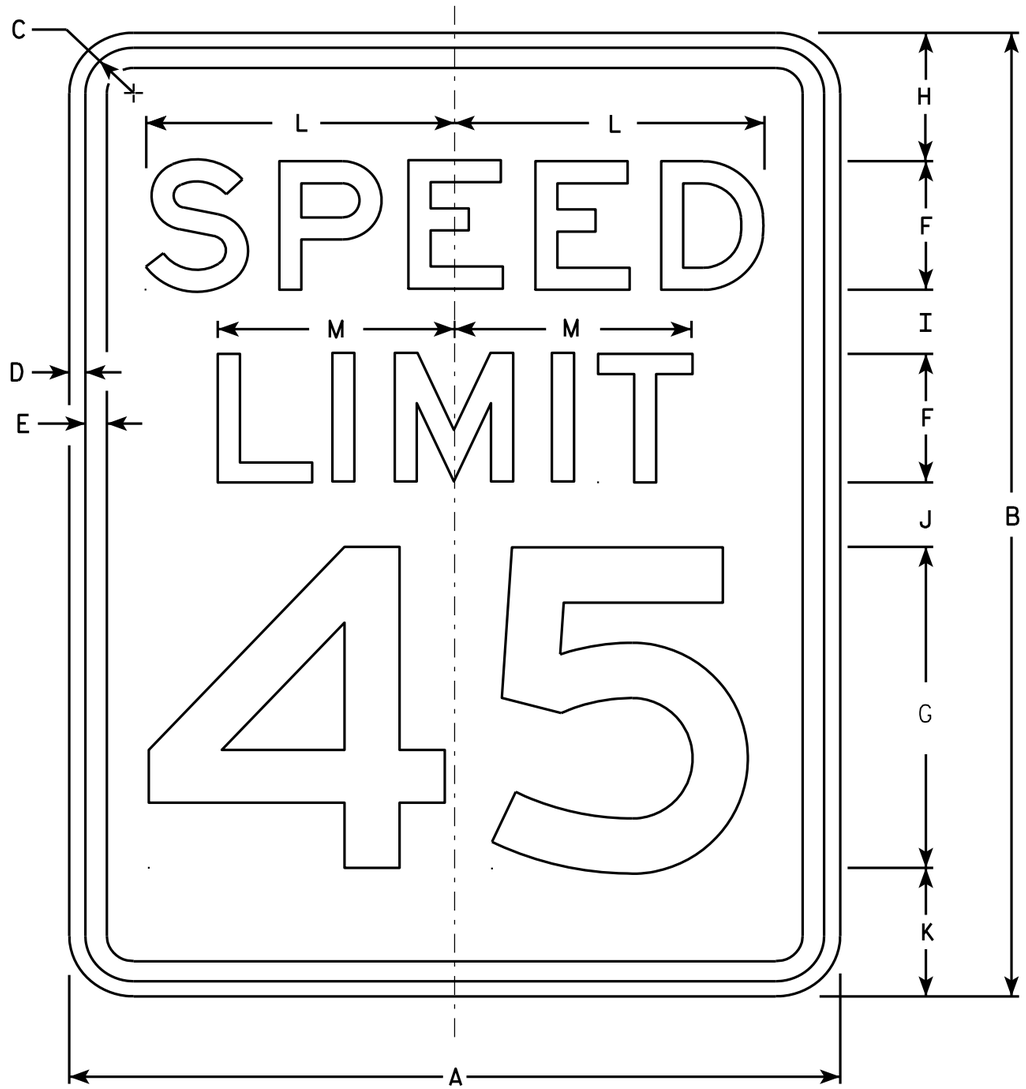
STANDARD SIGN
R1-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-54.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 705	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

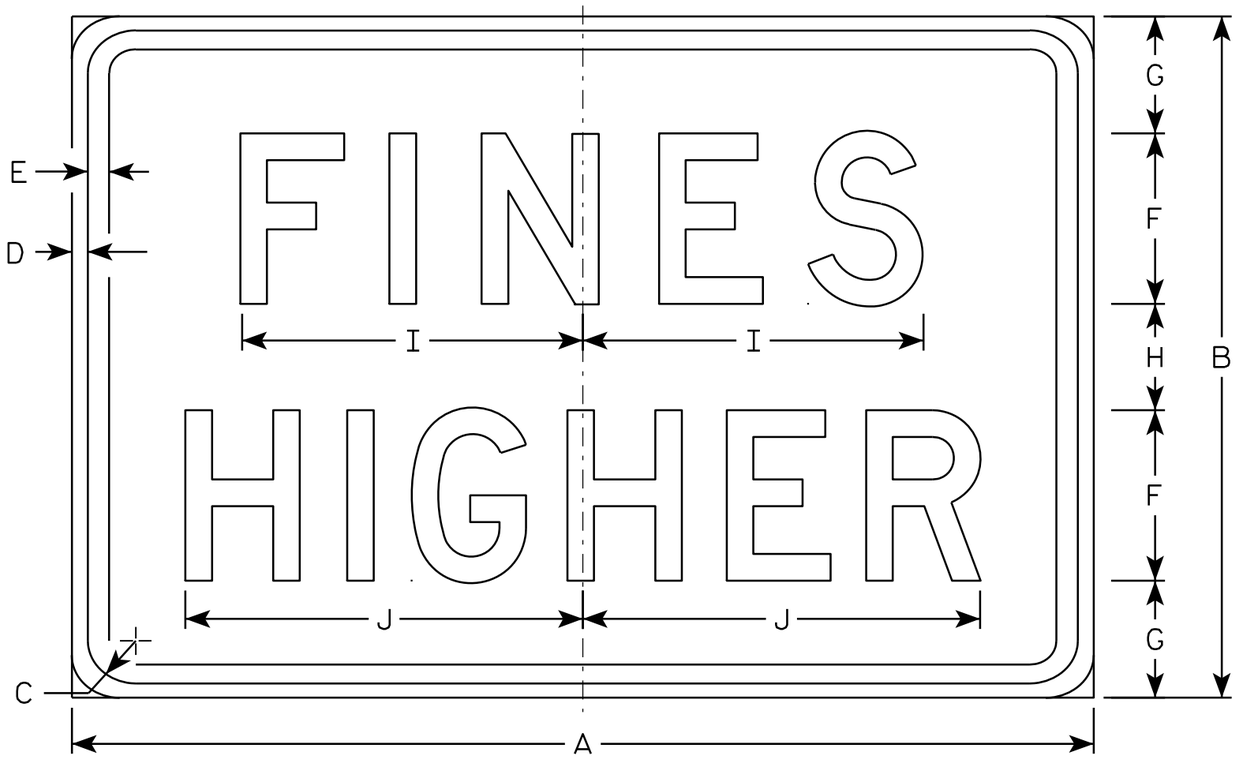
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 706	E



R2-6P

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
2M	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
3	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
4	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
5	48	36	1 3/8	1/2	5/8	8	7	6	15 1/8	19																	12.0

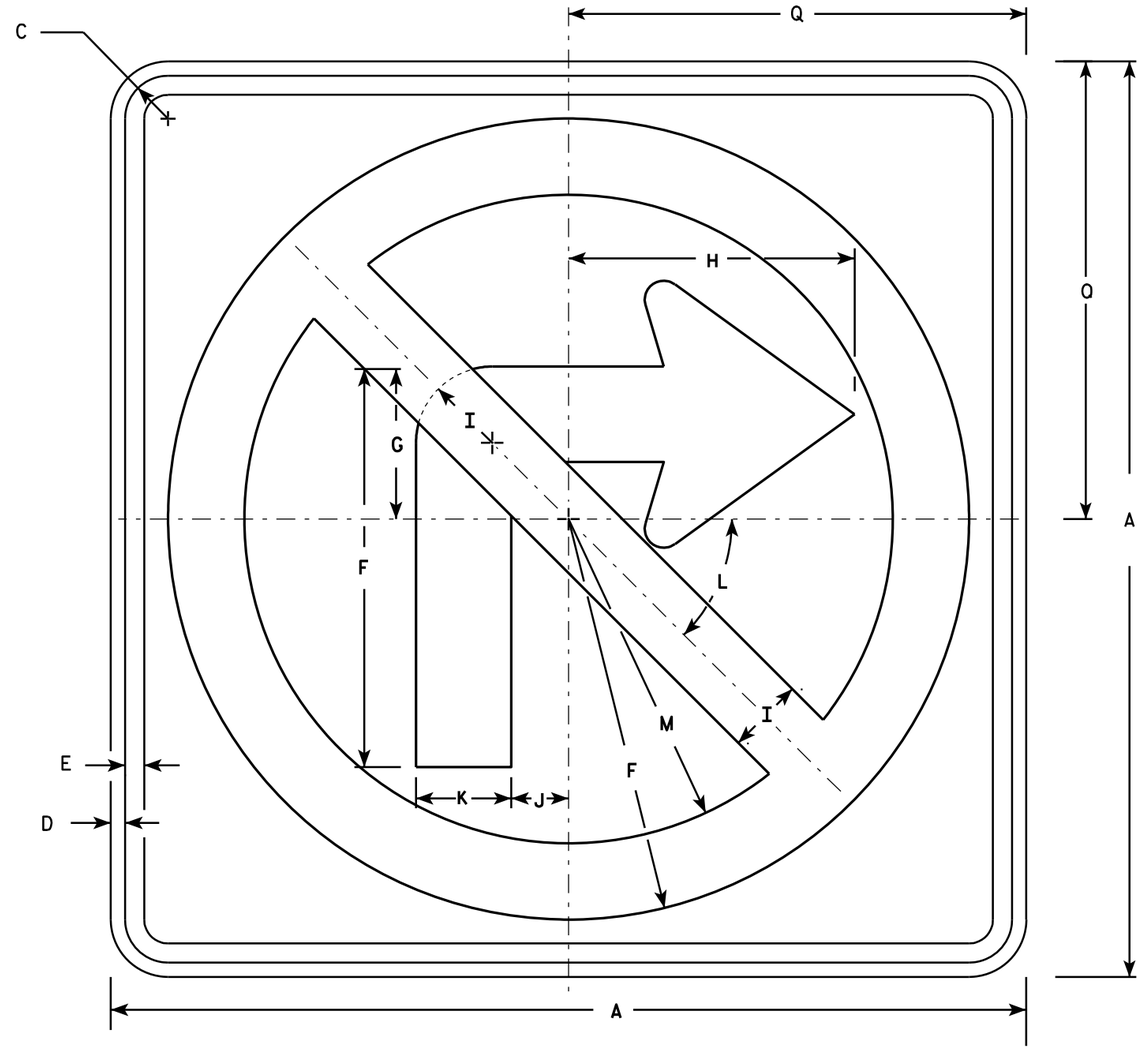
STANDARD SIGN
R2-6P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/20/10 PLATE NO. R2-6P.2

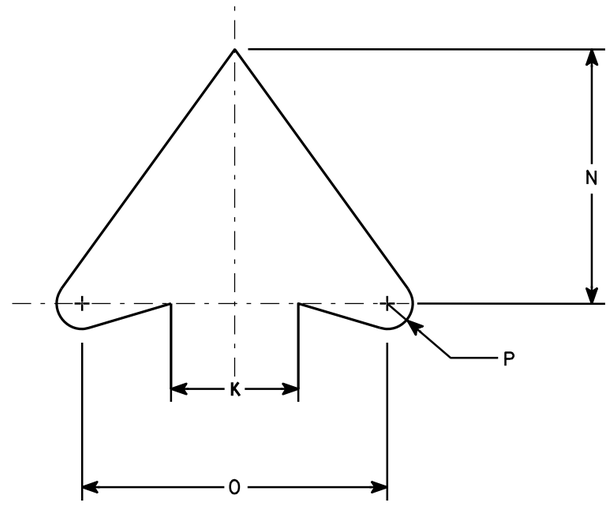
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 707 | E



R3-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

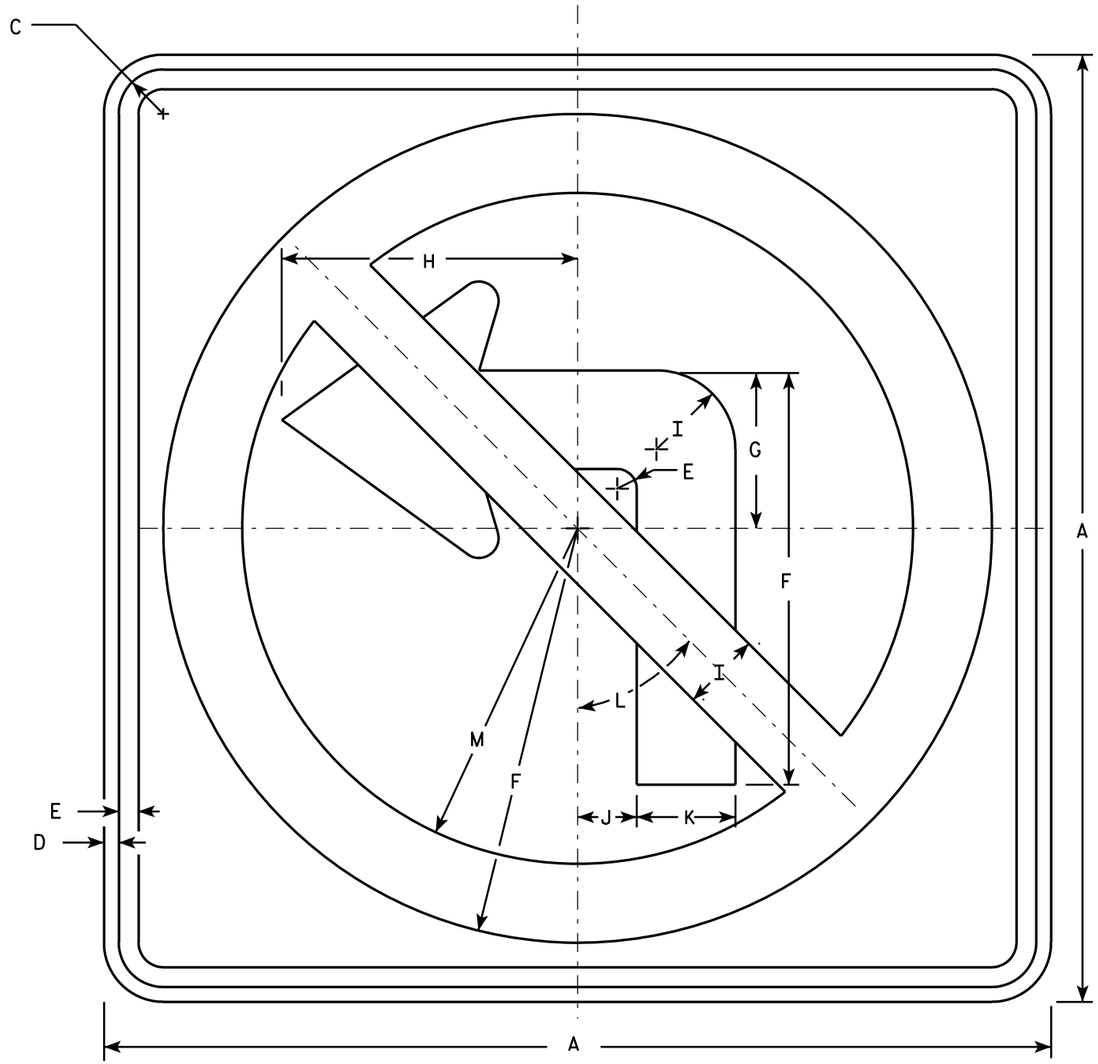
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

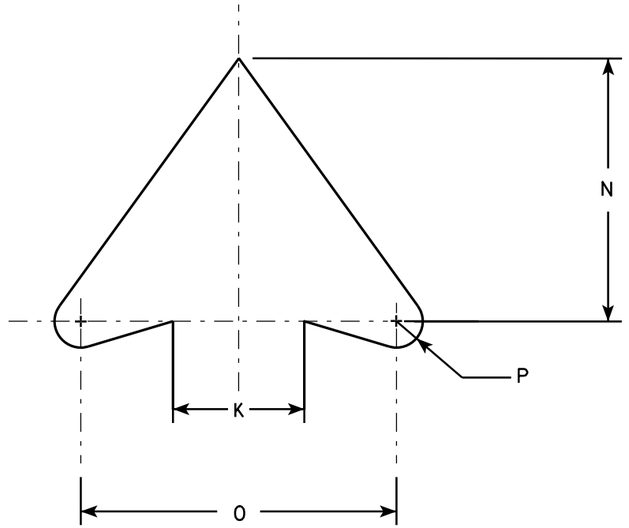
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 708	E



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

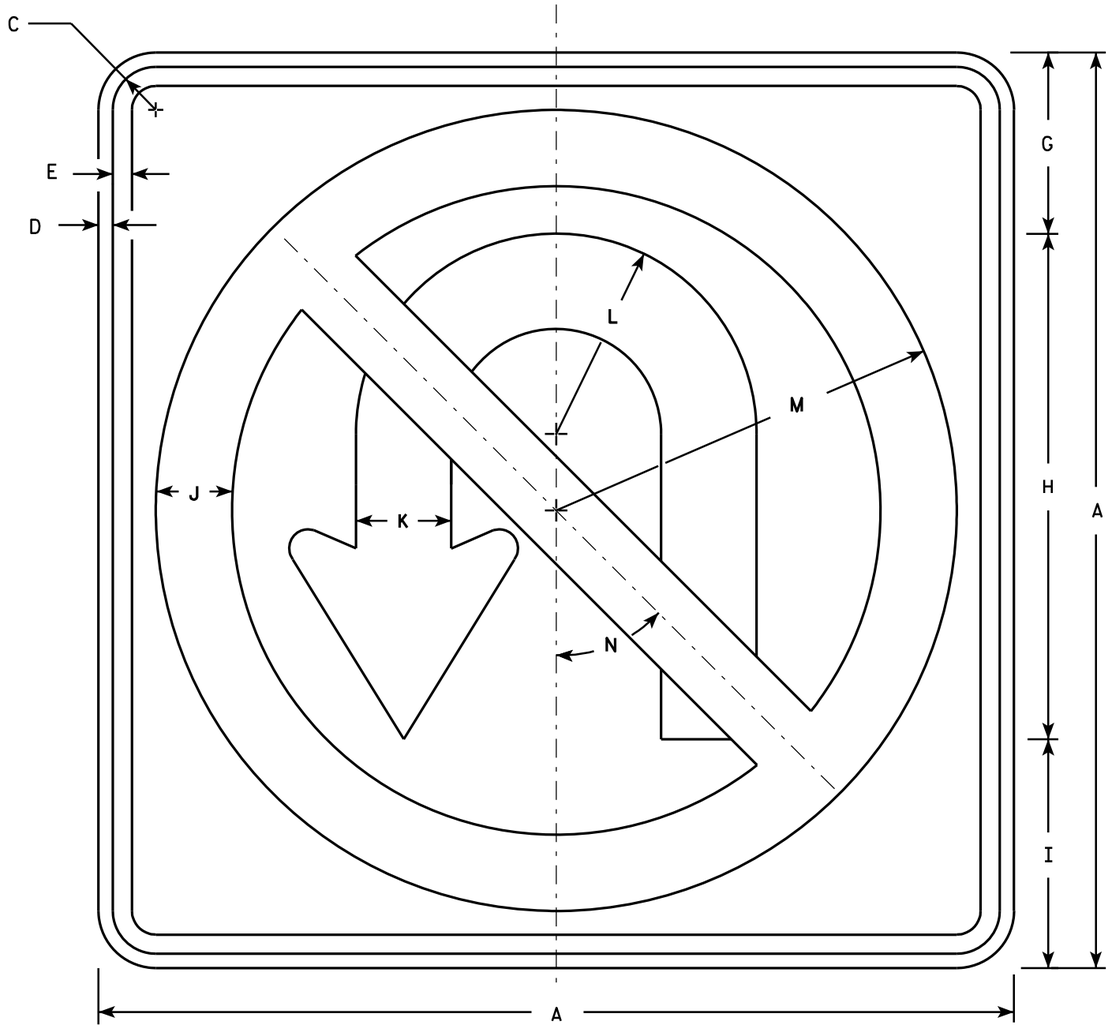
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

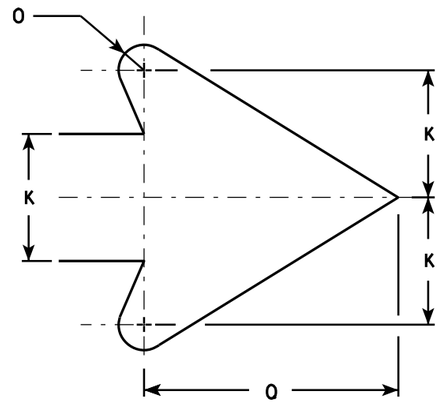
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 709	E



R3-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	3/8	1/2		4 3/4	13 1/4	6	2	2 1/2	5 1/4	10 1/2	45°	1/2		5										4.0
2M	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
3	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
4	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
5	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0

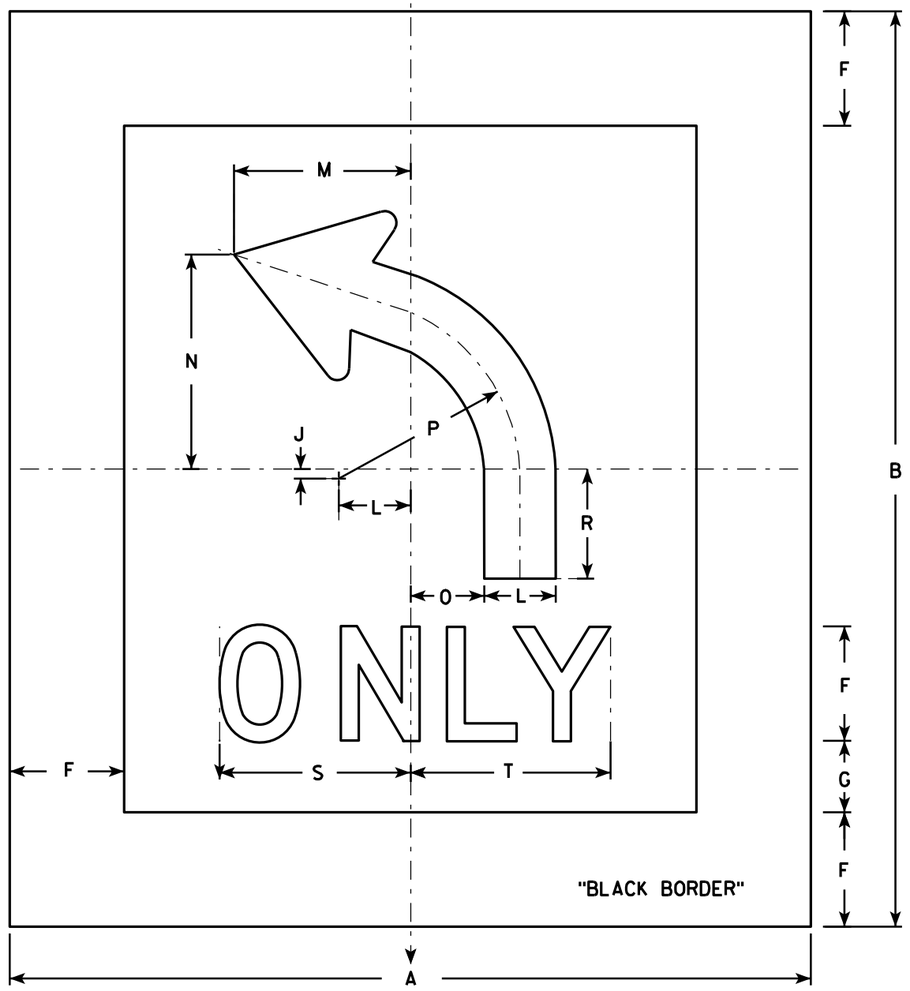
STANDARD SIGN
R3-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-4.11

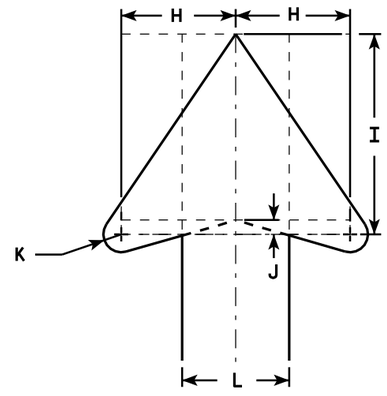
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 710 | E



R3-5L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
5. R3-5R is the same as R3-5L except curved portion of arrow points right.
6. The 6" border is non-reflective black.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	42	48				6	3 3/4	4	7	1/2	5/8	3 3/4	9 1/4	11 1/4	3 7/8	9 1/2		5 3/4	10	10 1/2							1.26
2M	42	48				6	3 3/4	4	7	1/2	5/8	3 3/4	9 1/4	11 1/4	3 7/8	9 1/2		5 3/4	10	10 1/2							1.26
3																											
4																											
5																											

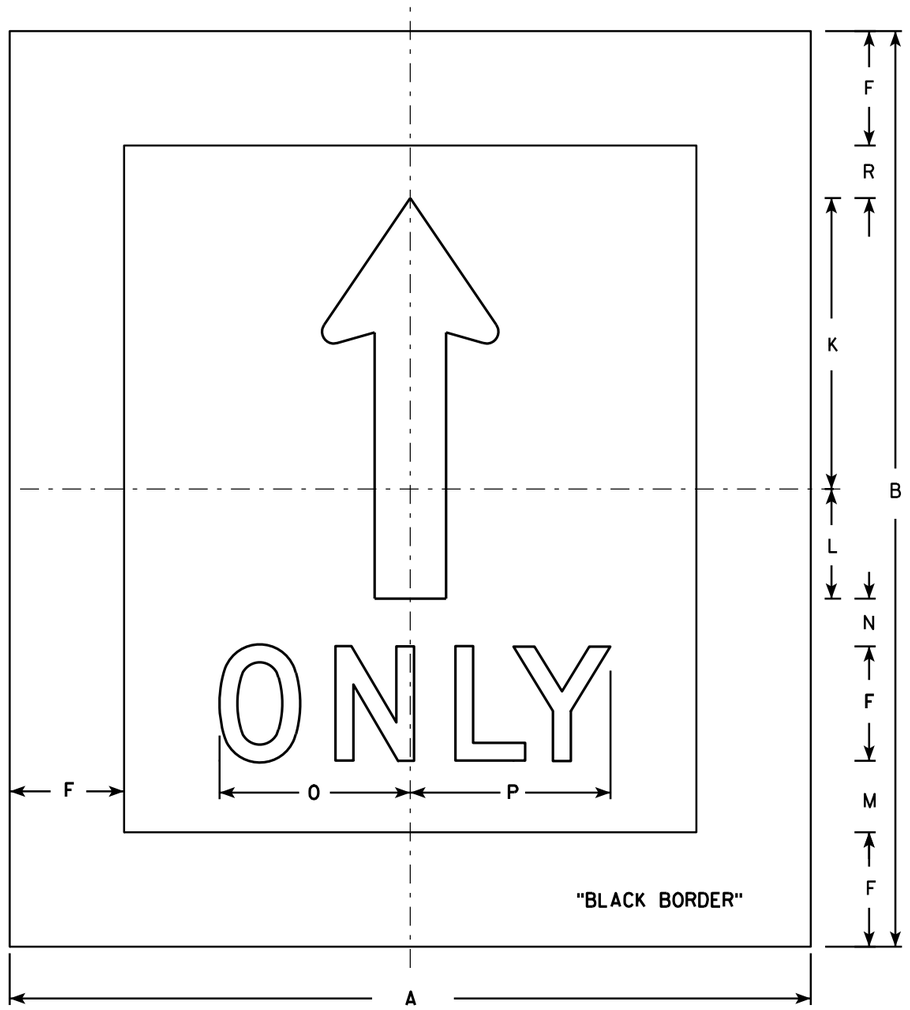
STANDARD SIGN
R3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/24/11 PLATE NO. R3-5.6

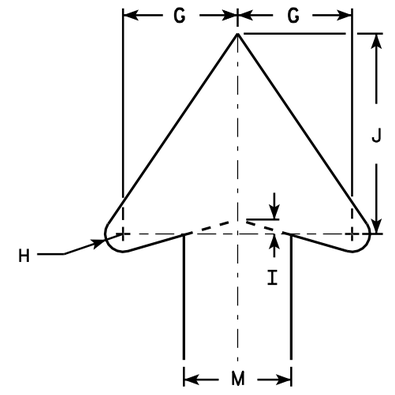
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 711 | E



R3-5A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
5. The 6" border is non-reflective black.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	42	48				6	4	5/8	1/2	7	15 1/4	5 3/4	3 3/4	2 1/2	10	10 1/2		2 3/4									1.26
2M	42	48				6	4	5/8	1/2	7	15 1/4	5 3/4	3 3/4	2 1/2	10	10 1/2		2 3/4									1.26
3																											
4																											
5																											

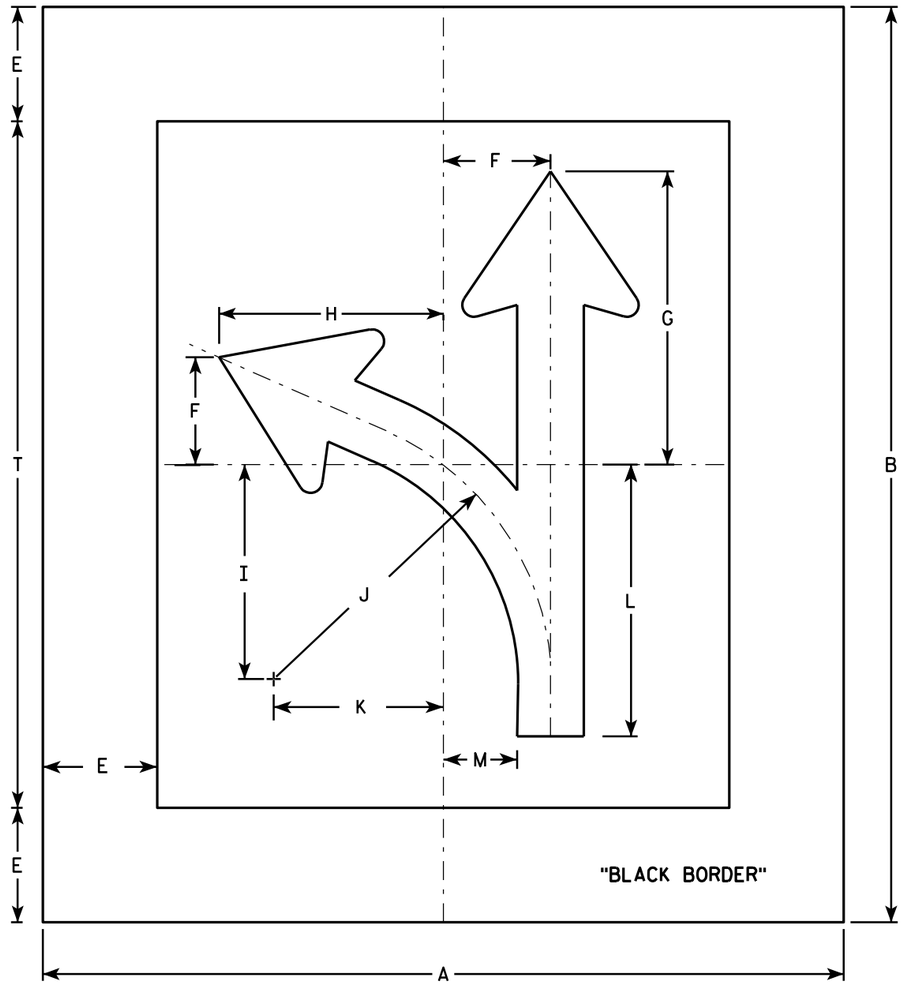
STANDARD SIGN
R3-5A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/24/11 PLATE NO. R3-5A.5

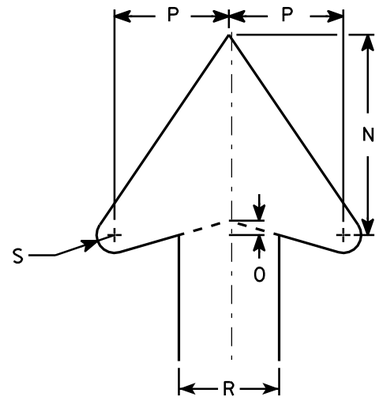
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 712	E



R3-6L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
4. R3-6R is the same as R3-6L except curved portion of arrow points right.
5. The 6" border is non-reflective black.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	42	48			6	5 5/8	15 3/8	11 3/4	11 1/4	14 1/2	8 7/8	14 1/4	3 7/8	7	1/2	4		3 1/2	5/8	36							14.0
2M	42	48			6	5 5/8	15 3/8	11 3/4	11 1/4	14 1/2	8 7/8	14 1/4	3 7/8	7	1/2	4		3 1/2	5/8	36							14.0
3																											
4																											
5																											

STANDARD SIGN
R3-6

WISCONSIN DEPT OF TRANSPORTATION

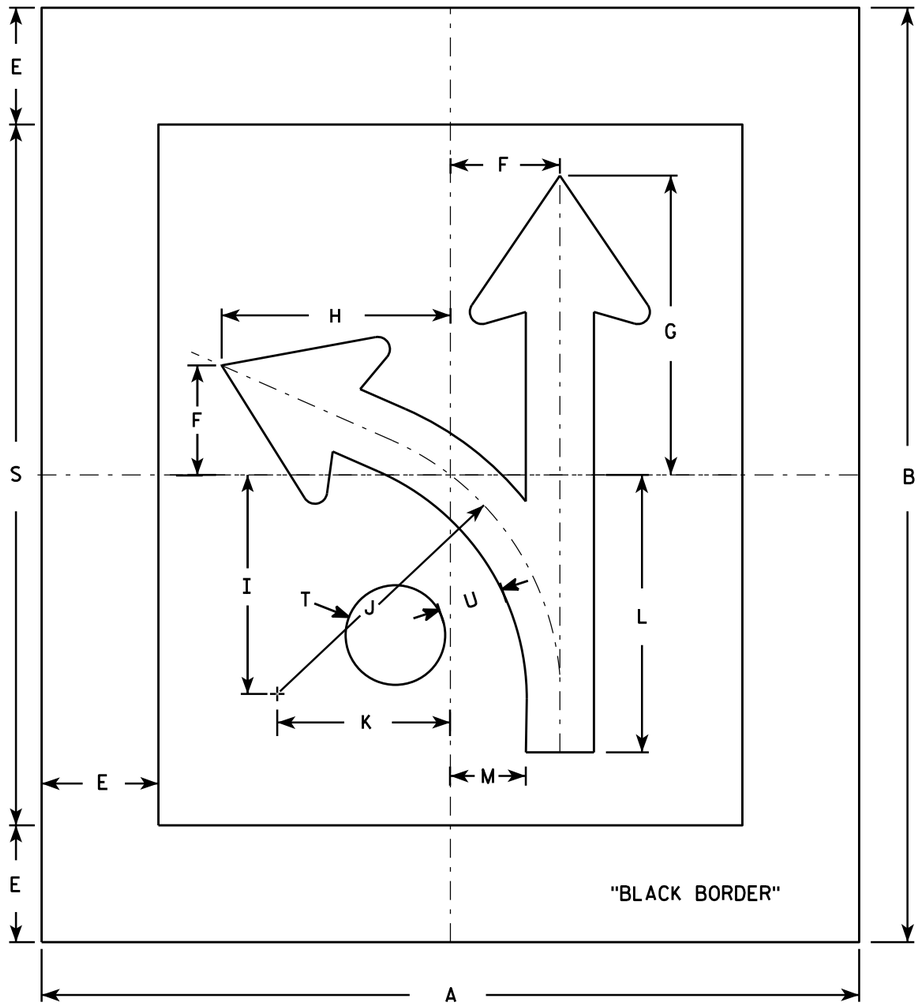
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/17/2011 PLATE NO. R3-6.5

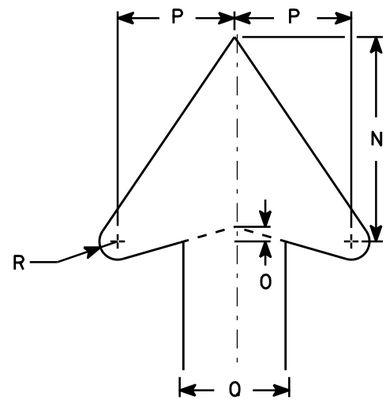
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 713 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
4. The 6" border is non-reflective black.



R3-6X



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	42	48			6	5 5/8	15 3/8	11 3/4	11 1/4	14 1/2	8 7/8	14 1/4	3 7/8	7	1/2	4	3 1/2	5/8	36	5	3 1/2						14.0
2M	42	48			6	5 5/8	15 3/8	11 3/4	11 1/4	14 1/2	8 7/8	14 1/4	3 7/8	7	1/2	4	3 1/2	5/8	36	5	3 1/2						14.0
3																											
4																											
5																											

STANDARD SIGN
R3-6X

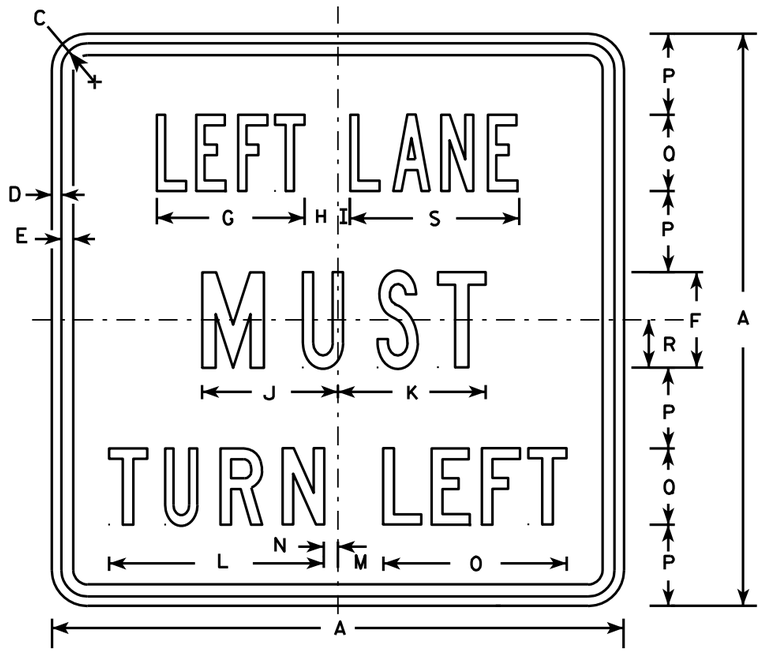
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

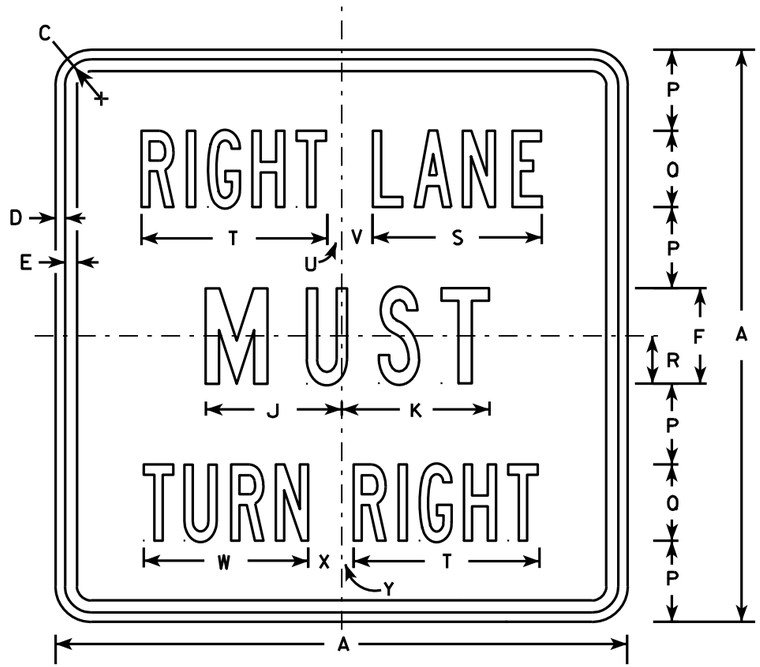
DATE 2/05/15 PLATE R3-6X.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R36X.DGN PLOT DATE : 05-FEB-2015 14:49 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 7.783368:1.000000
WISDOT/CADDS SHEET 42



R3-7L



R3-7R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Line 1 is Series B.
   Line 2 is Series C.
   Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2S	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2M	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
3	36		1 5/8	5/8	3/4	6	9 5/8	2	1 1/8	8 3/4	9	13 1/2	3 7/8	1 1/2	12 1/2	5	5	3	10 5/8	12	7/8	2 1/4	10 5/8	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 1/2	11 1/2	11 7/8	17 3/4	3 5/8	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 7/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

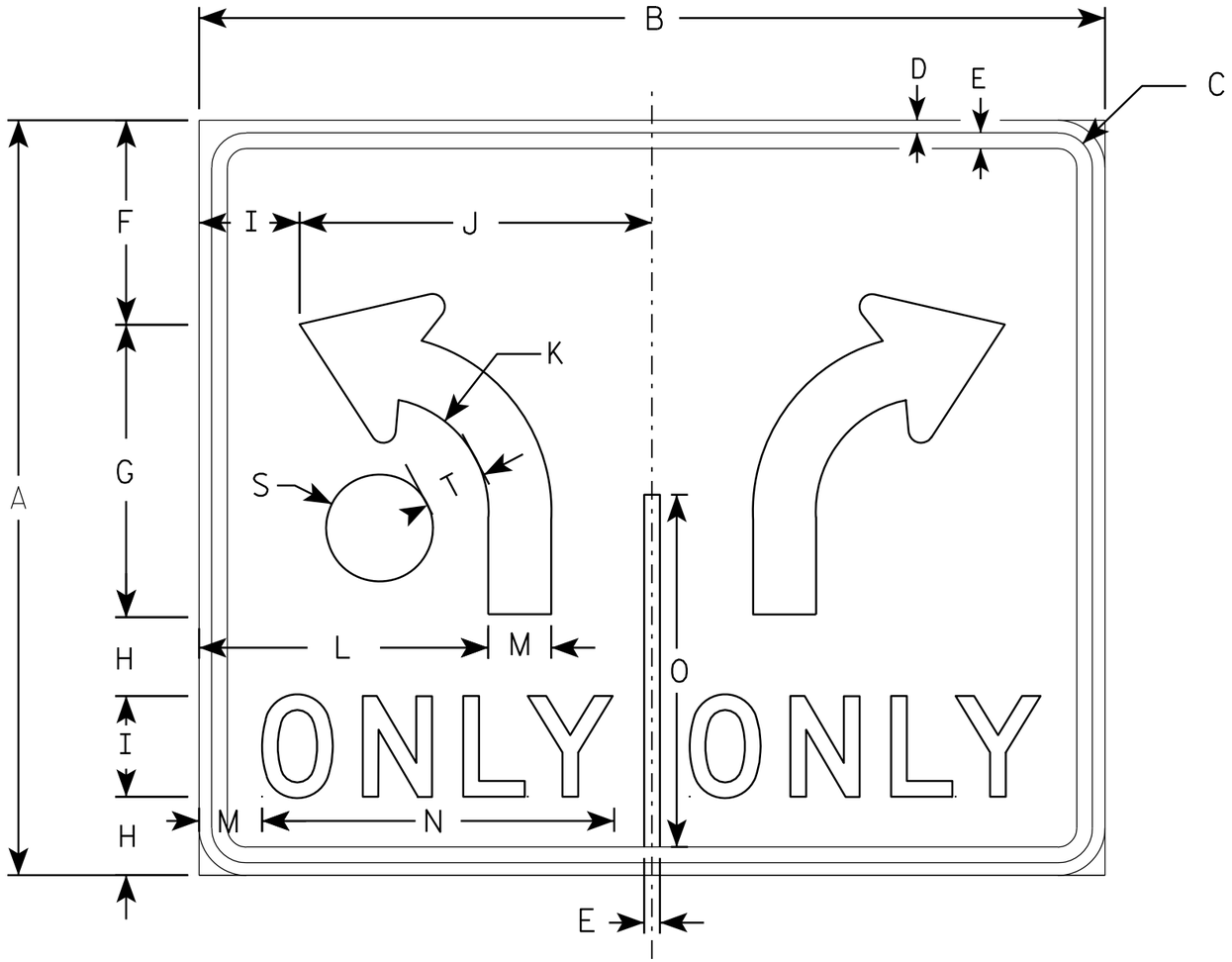
STANDARD SIGN
R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-7.3

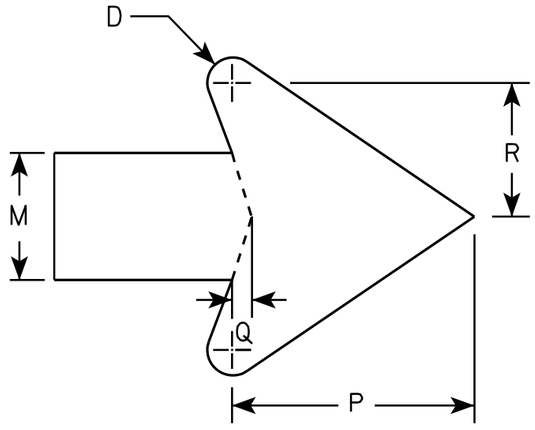
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 715 | E



R3-8HH

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	14	4 1/2	11 1/2	2 1/2	14	14	4 3/4	3/8	2 5/8	4 1/4	2 1/2							7.5
2M	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	14	4 1/2	11 1/2	2 1/2	14	14	4 3/4	3/8	2 5/8	4 1/4	2 1/2							7.5
3																											
4																											
5																											

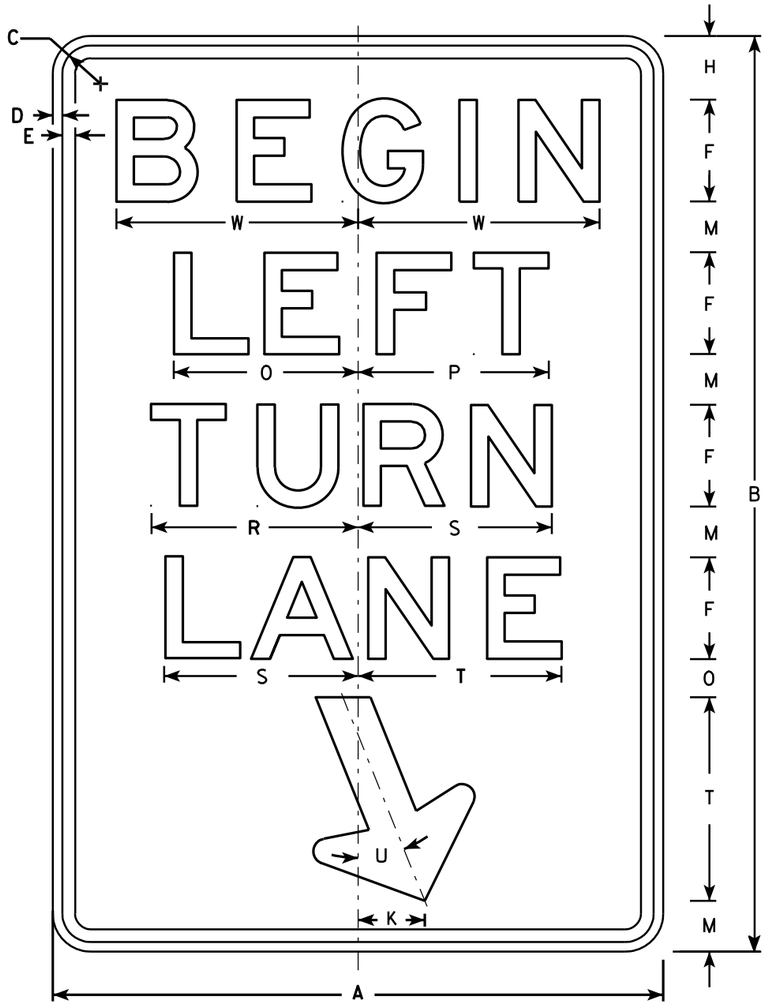
STANDARD SIGN
R3-8HH

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-8HH.2

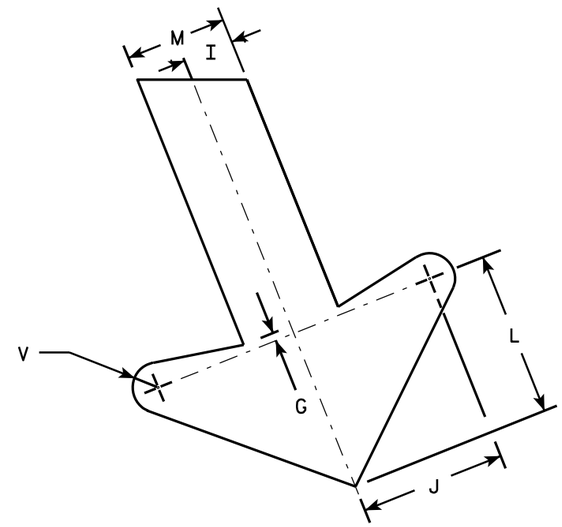
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 716 | E



R3-20L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

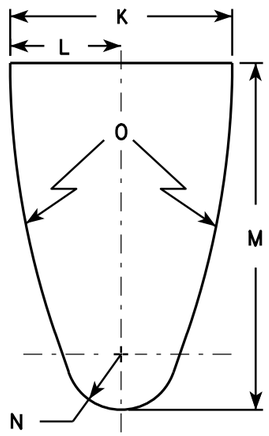
STANDARD SIGN
R3-20L

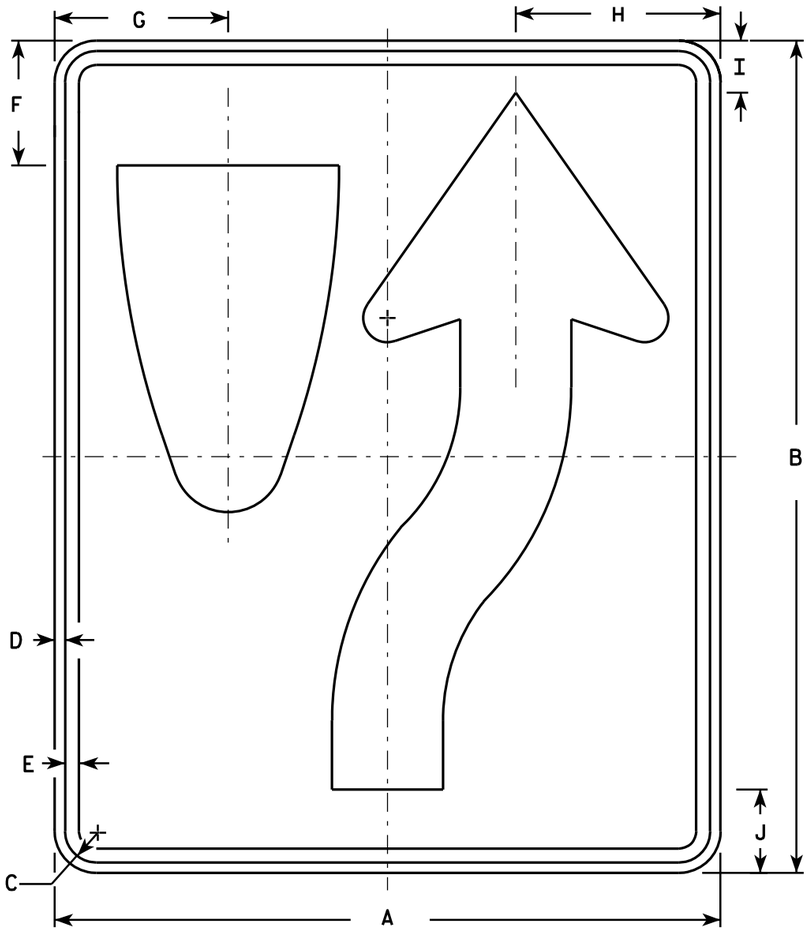
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 717 | E

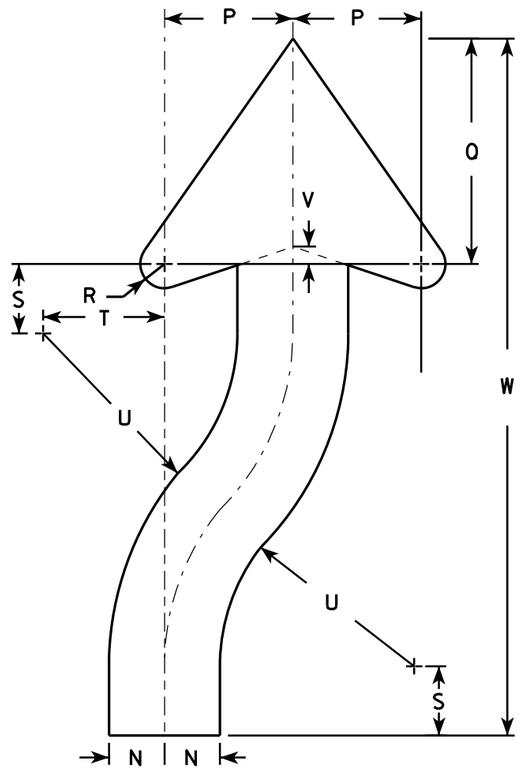




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

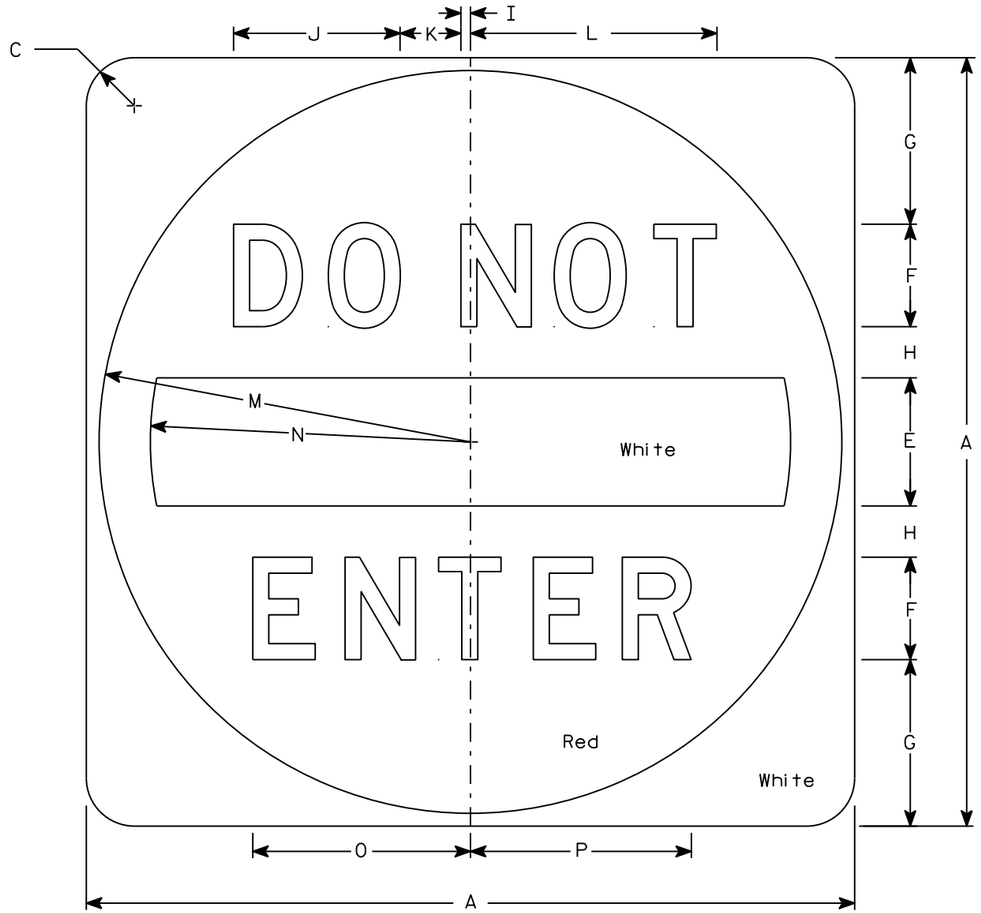
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 718	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See detail
   Message - White
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

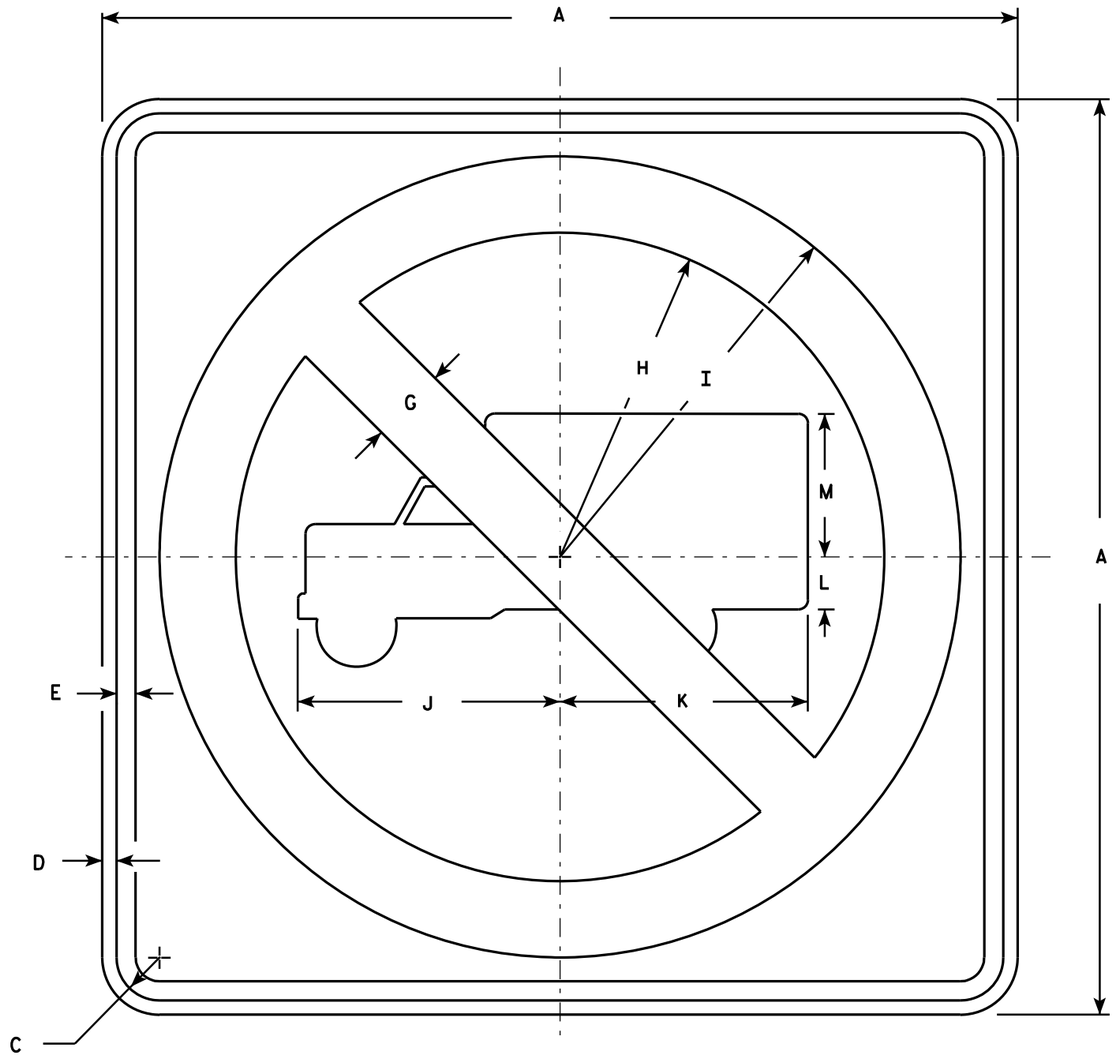
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 719 | E



R5-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Circle & Diagonal - Reflective red.
   Truck Symbol & Border - Non-reflective black.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	3/8	1/2		2	8 1/2	10 1/2	6 7/8	6 1/2	1 3/8	3 3/4														4.0
2M	24		1 1/8	3/8	1/2		2	8 1/2	10 1/2	6 7/8	6 1/2	1 3/8	3 3/4														4.0
3	30		1 3/8	1/2	5/8		2 1/2	10 5/8	13 1/8	8 1/2	8 1/8	1 5/8	4 3/4														6.25
4	36		1 5/8	5/8	3/4		3	12 3/4	15 3/4	10 1/4	9 3/4	2	5 3/4														9.0
5	48		2 1/4	3/4	1		4	17	21	13 5/8	13	2 5/8	7 5/8														16.0

STANDARD SIGN
R5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-2.6

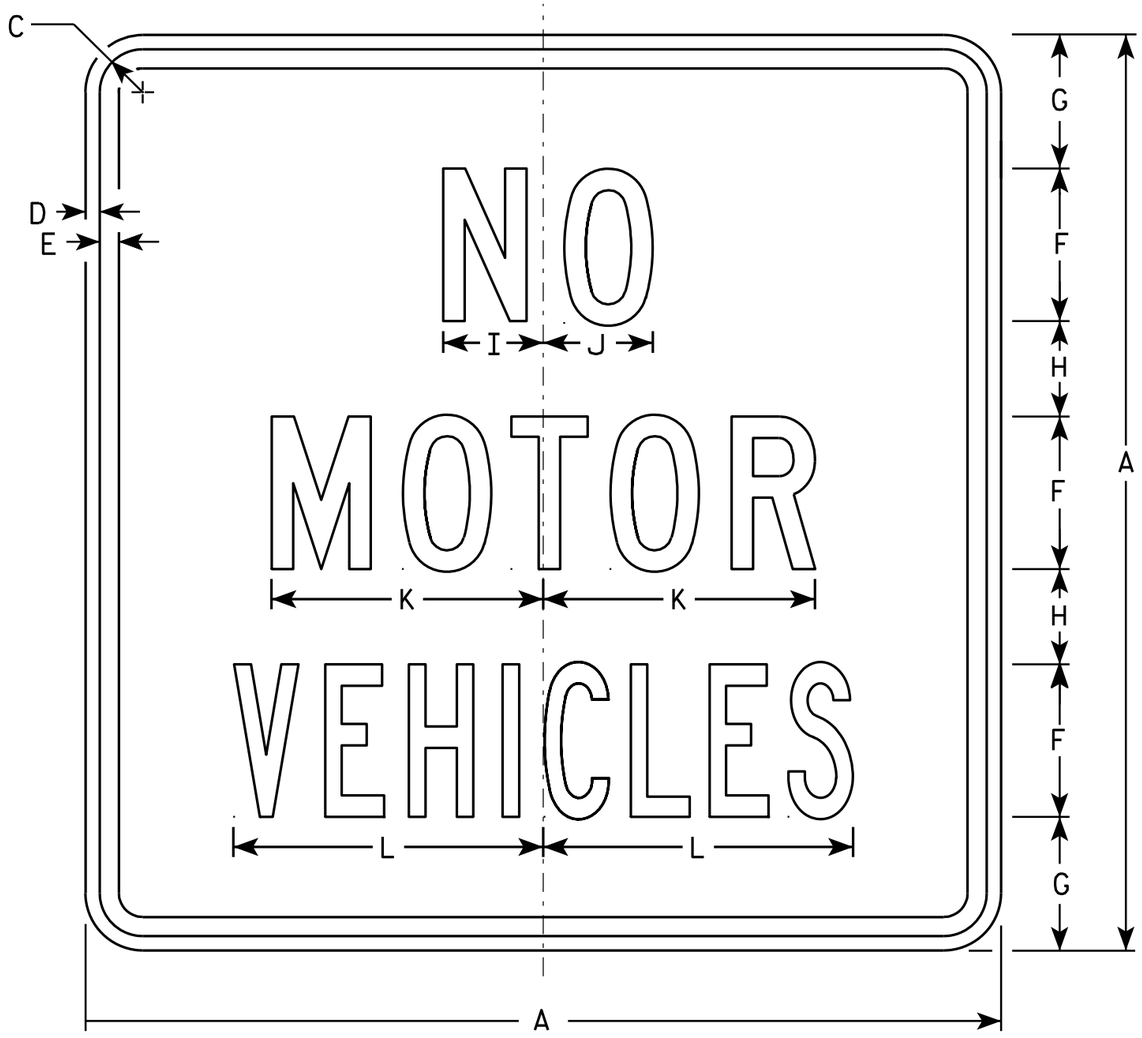
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 720	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R52.DGN PLOT DATE : 29-MAR-2011 11:02 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.959043:1.000000

WISDOT/CADDS SHEET 42

7

7



R5-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - See Note 5.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 & 2 are Series C.
   Line 3 is Series B.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	3/8	1/2	4	3 1/2	2 1/2	2 5/8	2 7/8	7 1/8	8 1/8															4.0
2M	24		1 1/8	3/8	1/2	4	3 1/2	2 1/2	2 5/8	2 7/8	7 1/8	8 1/8															4.0
3																											
4																											
5																											

STANDARD SIGN
R5-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-3.2

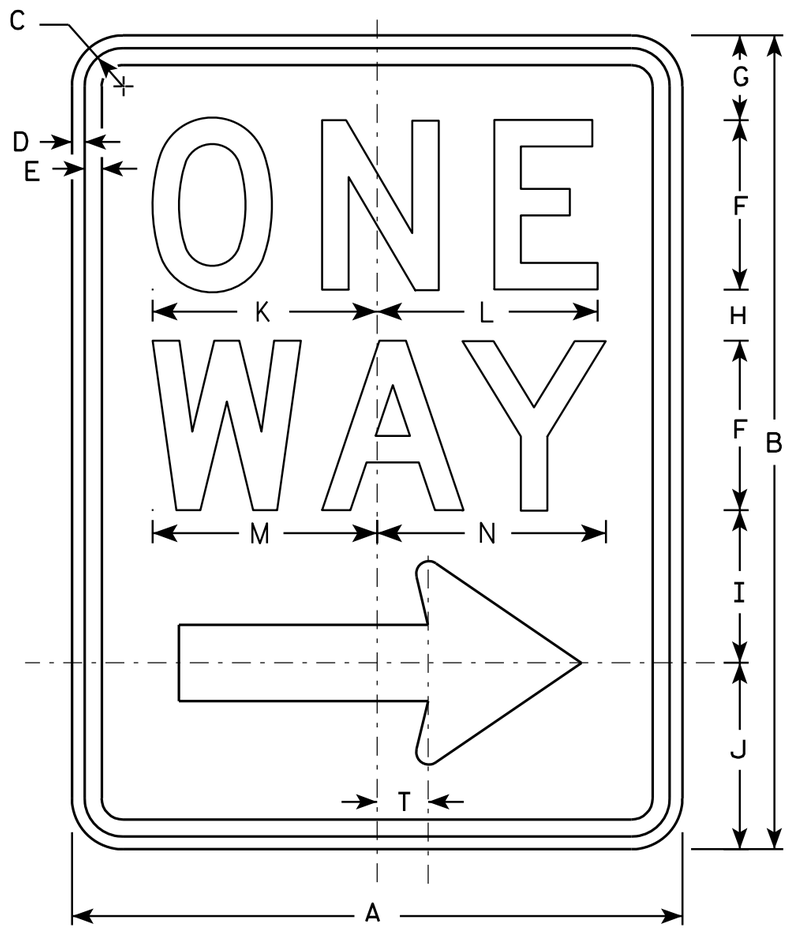
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 721 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R53.DGN PLOT DATE : 29-MAR-2011 13:25 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.972696:1.000000

WISDOT/CADDS SHEET 42

7

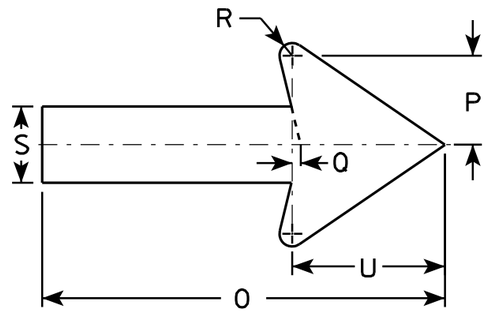
7



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

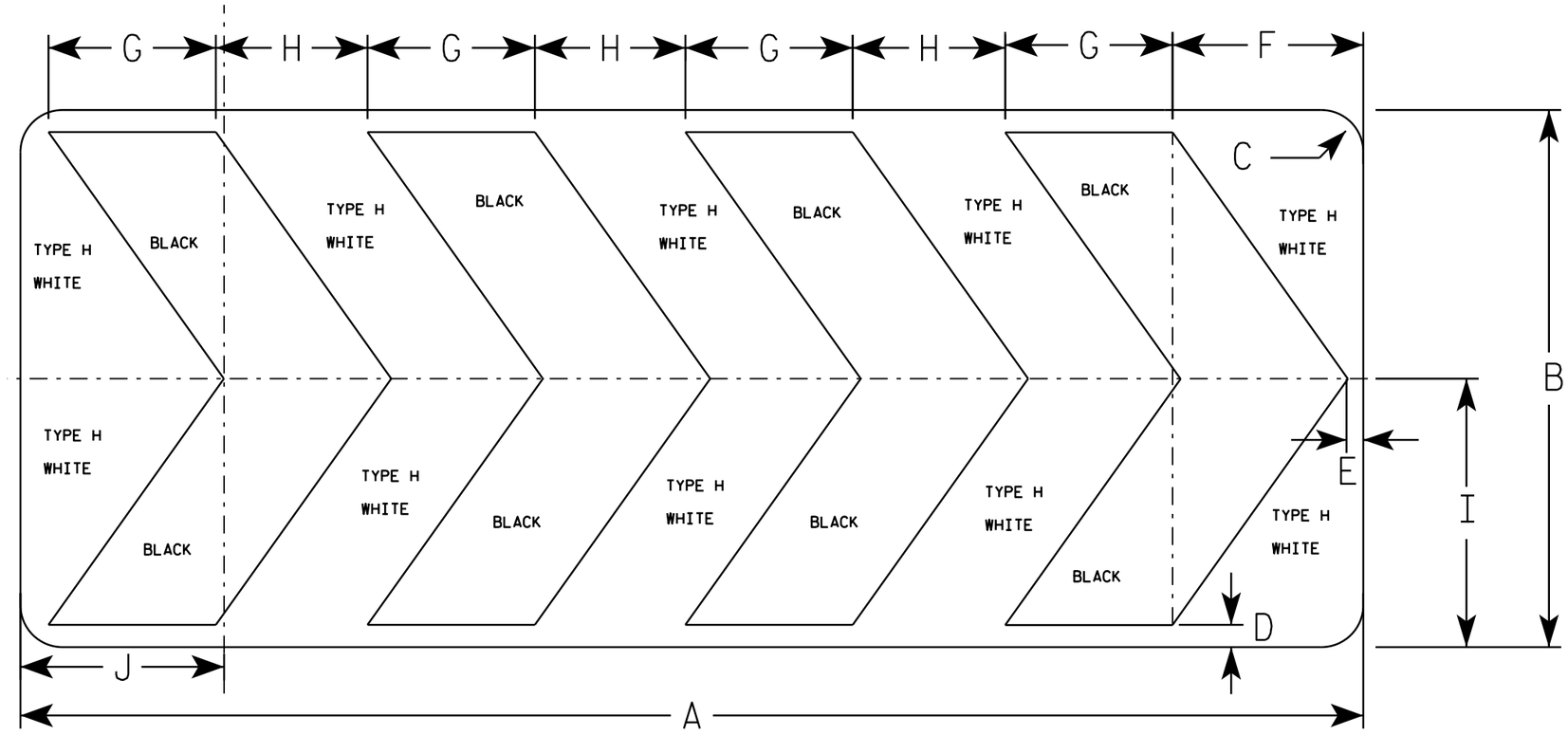
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 722	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - WHITE
   Message - BLACK
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R6-4B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
2M	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
3																											
4																											
5																											

STANDARD SIGN
R6-4B

WISCONSIN DEPT OF TRANSPORTATION

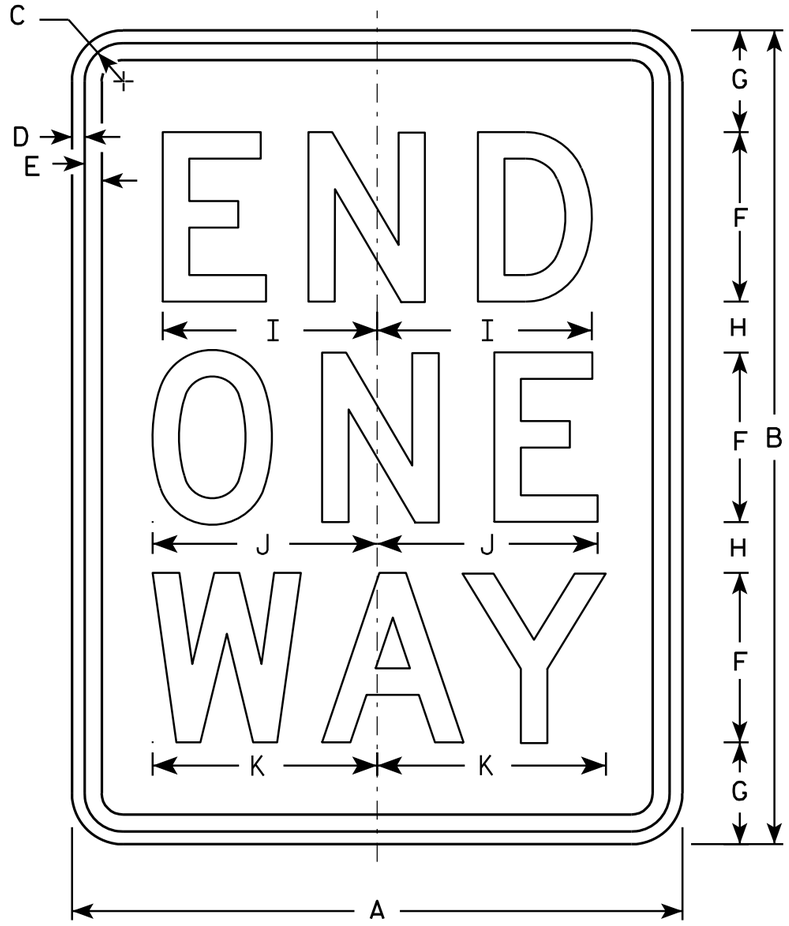
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/14 PLATE NO. R6-4.3

PROJECT NO: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R64B.DGN PLOT DATE : 21-AUG-2014 15:01 PLOT BY : mscsja

WISDOT/CADDS SHEET 42



R6-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1																										
2S	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	8	8 1/8	8 1/2															
2M	30	36	1 3/8	1/2	5/8	8	3 1/4	2 3/4	10 1/8	10 1/2	11 1/2															
3	36	48	1 3/8	1/2	5/8	10	5 1/4	3 1/4	12 5/8	12 3/4	13 3/8															
4	36	48	1 3/8	1/2	5/8	10	5 1/4	3 1/4	12 5/8	12 3/4	13 3/8															
5																										

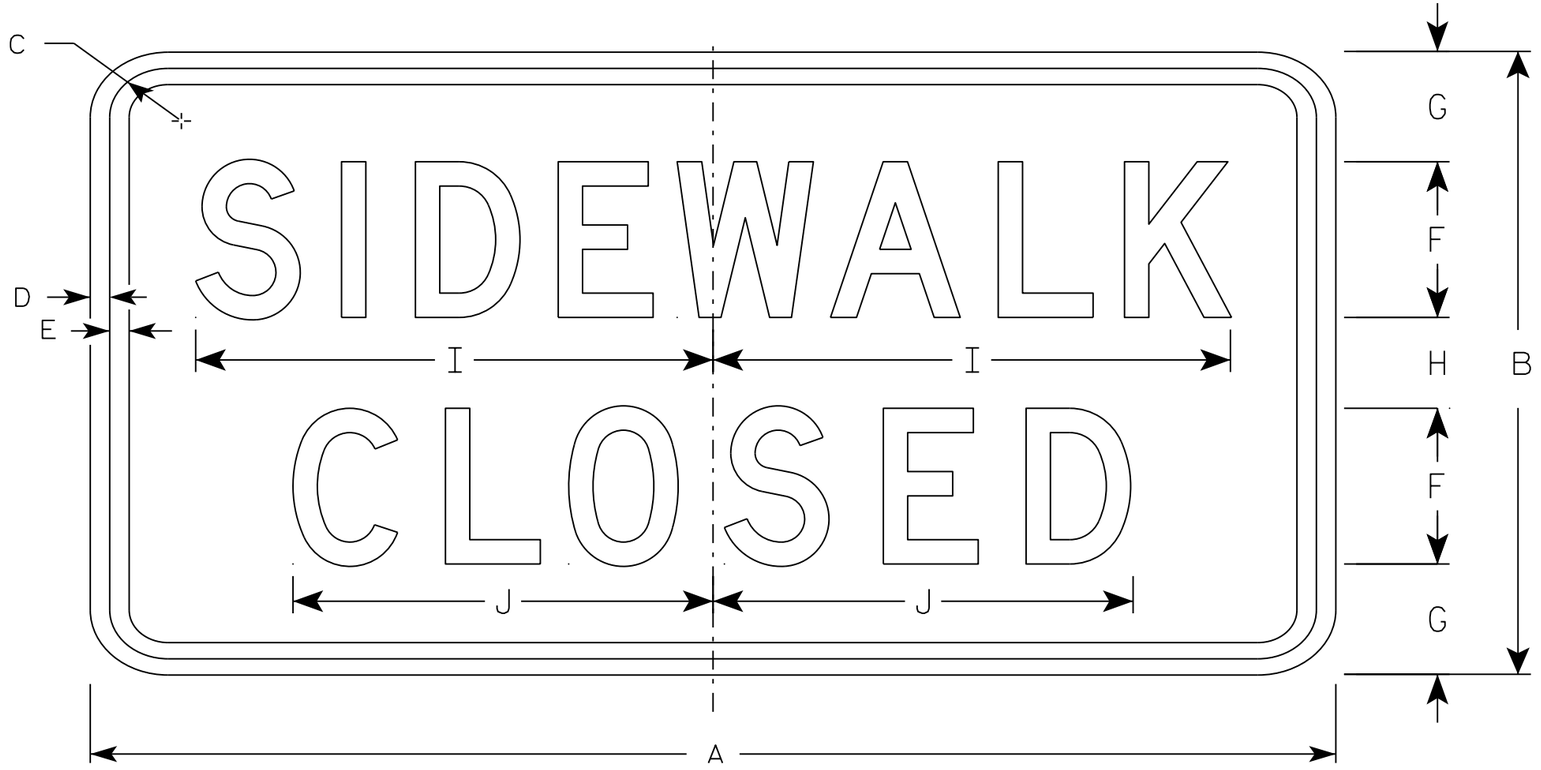
STANDARD SIGN
R6-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-7.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 724	E



R9-9

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
2M	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
3	30	18	1 3/4	1/2	1/2	4	3 1/2	3	12 1/2	10 1/4																	3.75
4																											
5																											

STANDARD SIGN
R9-9

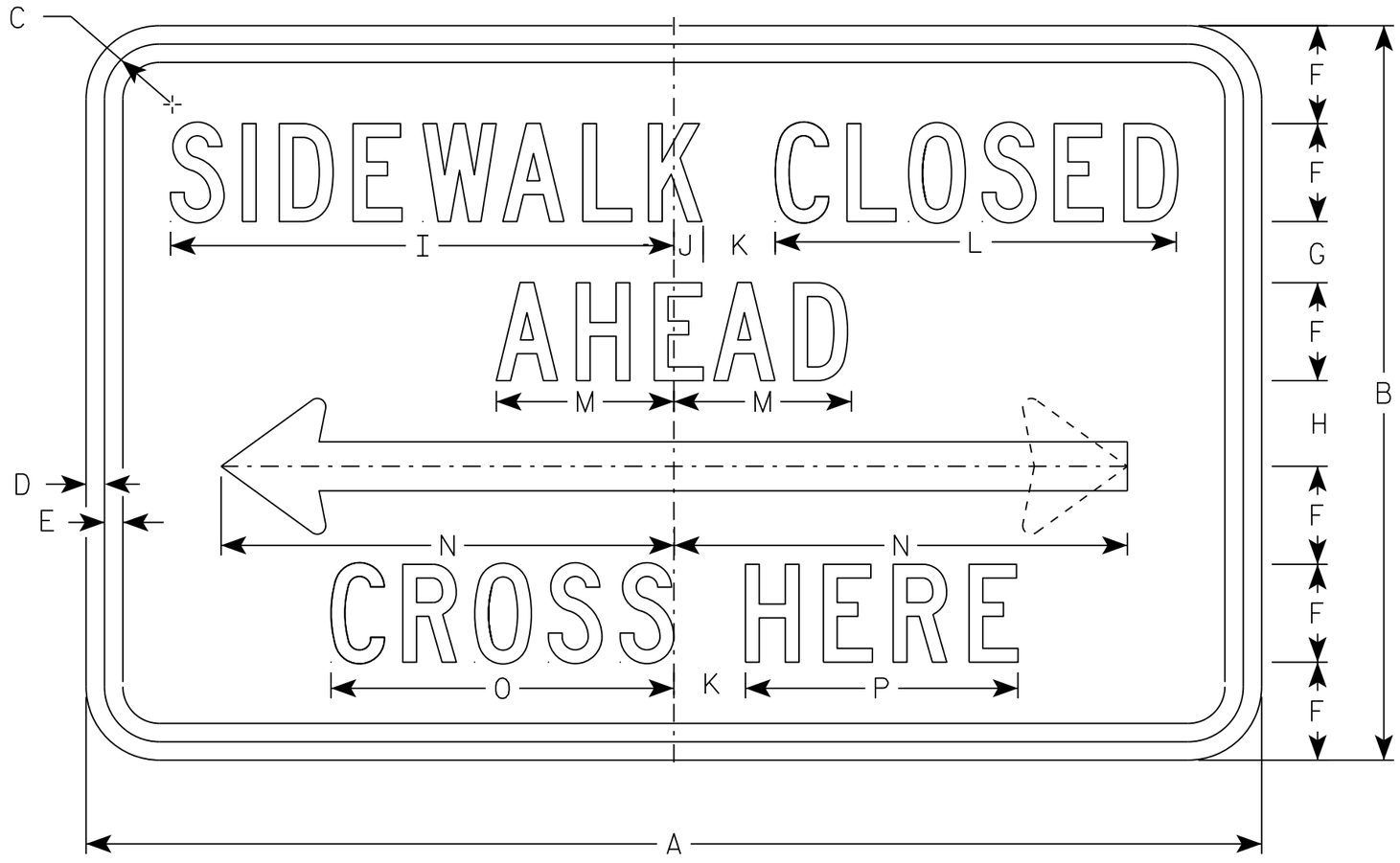
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

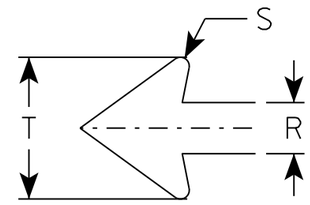
DATE 8/11/16 PLATE 725 R9-9.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R99.DGN PLOT DATE : 11-AUG-2016 11:33 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 2.918761:1.000000



R9-11



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C except Size 1 is Series D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 5/8	3 1/2	9 1/4	6 5/8	5 1/8		1	1/8	2 3/4							2.0
2M	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 5/8	3 1/2	9 1/4	6 5/8	5 1/8		1	1/8	2 3/4							2.0
3	30	15	1 1/8	3/8	1/2	2	1 1/2	1 1/2	13	3/4	2	10 1/4	4 5/8	12 3/8	8 7/8	6 7/8		1 1/4	1/4	3 5/8							3.125
4																											
5																											

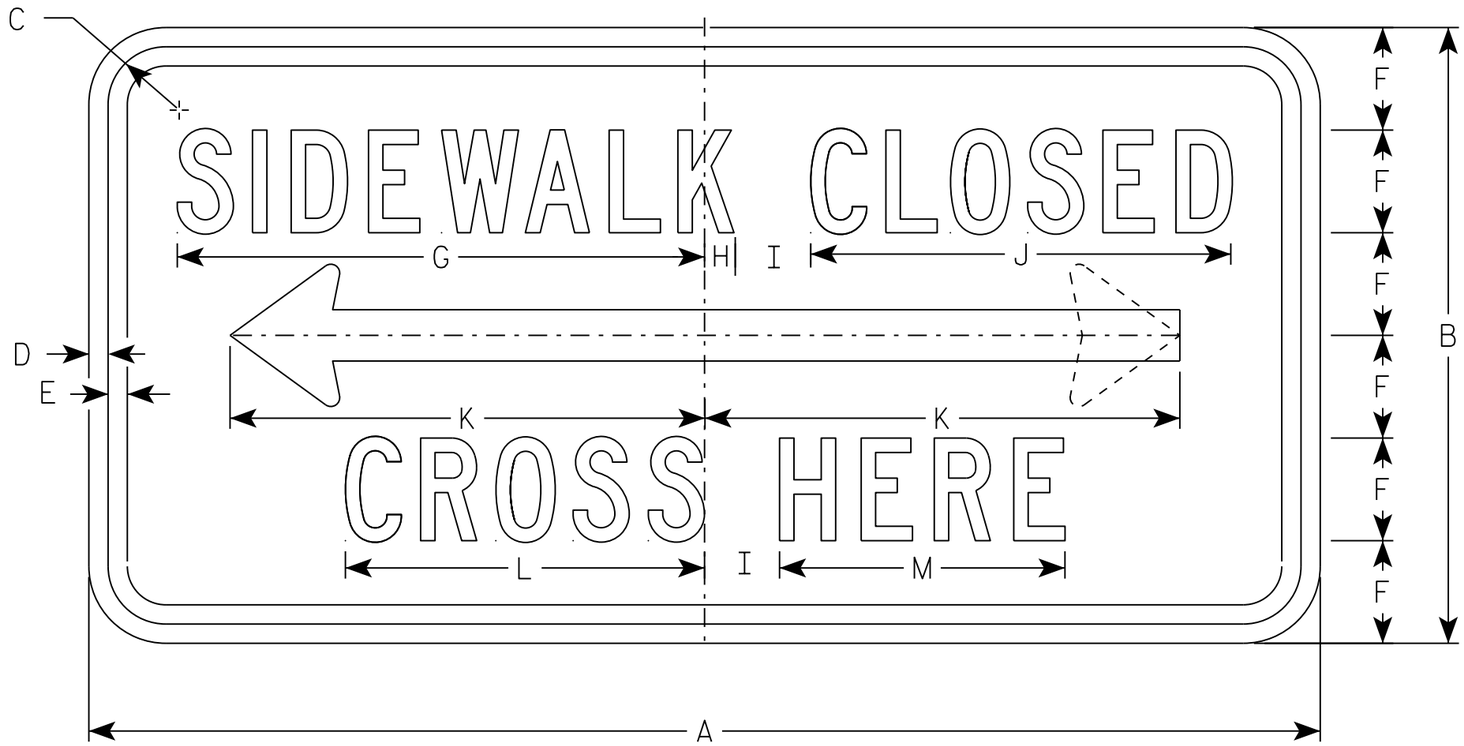
STANDARD SIGN
R9-11

WISCONSIN DEPT OF TRANSPORTATION

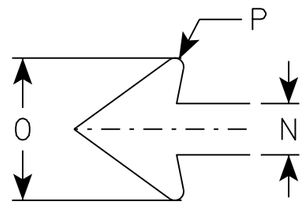
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/29/16 PLATE NO. R9-11.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 726	E



R9-11A



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Use Size 2 for Sidewalks. Use Size 3 for paths and Trails.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	2	10 1/4	5/8	1 1/2	8 1/4	9 1/4	7	5 5/8	1	2 3/4	1/8											2.0
2M	24	12	1 1/8	3/8	3/8	2	10 1/4	5/8	1 1/2	8 1/4	9 1/4	7	5 5/8	1	2 3/4	1/8											2.0
3	30	15	1 1/8	3/8	1/2	2	13	3/4	2	10 1/4	12 3/8	8 7/8	6 7/8	1 1/4	3 5/8	1/4											3.125
4																											
5																											

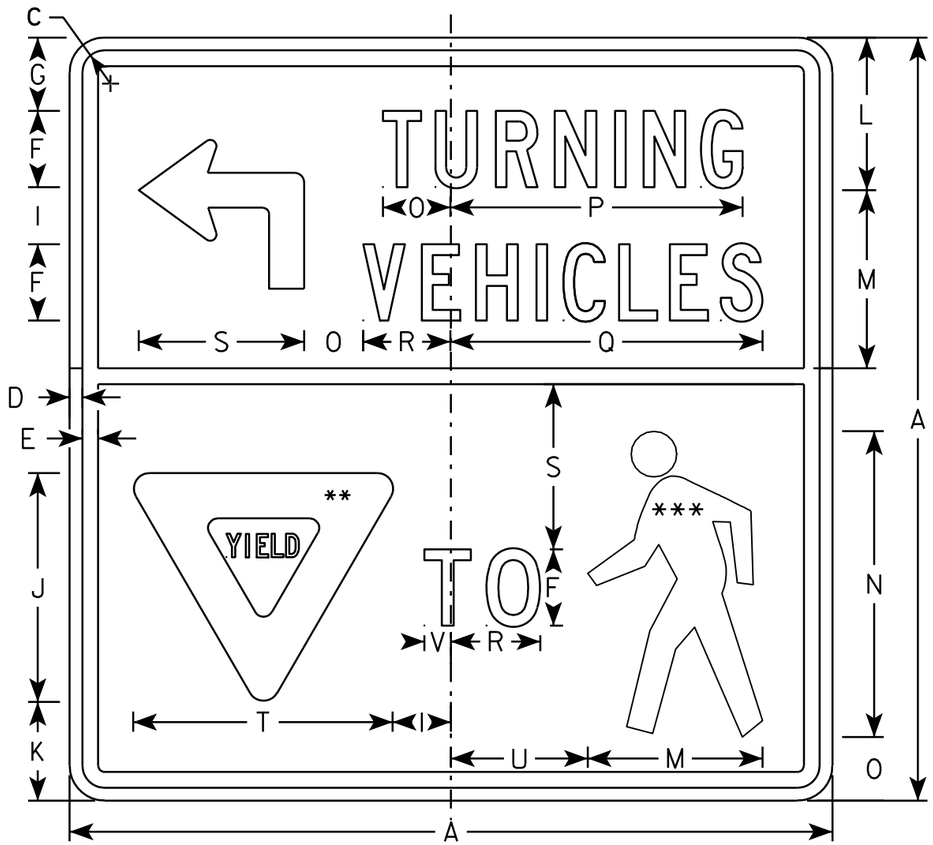
STANDARD SIGN
R9-11A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/29/16 PLATE NO. R9-11A.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 727 E



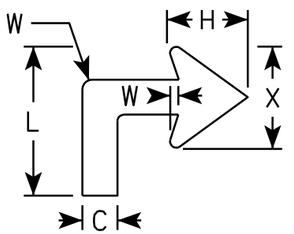
R10-15L

NOTES

1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Top Half- Yellow
   Bottom Half - WHITE
   Message - BLACK
   YIELD SYMBOL - RED ON WHITE
   PED SYMBOL - BLACK ON WHITE
3. Message Series - C except "TO" Series D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

** INSERT R1-2 AND SIZE TO FIT

*** INSERT W11-2 AND SIZE TO FIT



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 3/8	1/2	5/8	3	2 7/8	3	2 1/4	9	3 7/8	6	7	12	2 1/2	11 1/2	12 1/4	3 1/2	6 1/2	10 1/4	5 3/8	1	3/8	4			6.25
2M	30		1 3/8	1/2	5/8	3	2 7/8	3	2 1/4	9	3 7/8	6	7	12	2 1/2	11 1/2	12 1/4	3 1/2	6 1/2	10 1/4	5 3/8	1	3/8	4			6.25
3																											
4																											
5																											

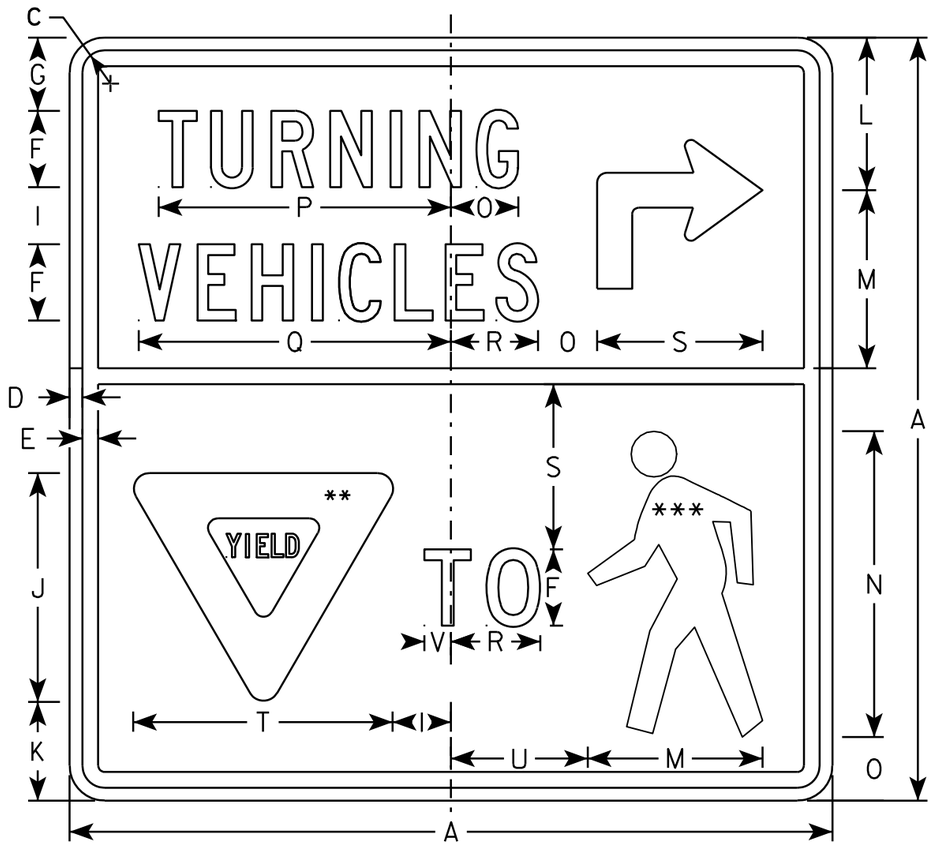
STANDARD SIGN
R10-15L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/2/10 PLATE NO. R10-15L.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 728	E



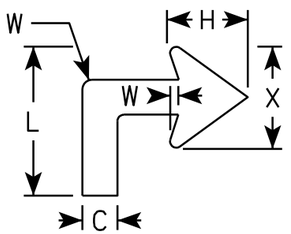
R10-15R

NOTES

1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Top Half- Yellow
   Bottom Half - WHITE
   Message - BLACK
   YIELD SYMBOL - RED ON WHITE
   PED SYMBOL - BLACK ON WHITE
3. Message Series - C except "TO" Series D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

** INSERT R1-2 AND SIZE TO FIT

*** INSERT W11-2 AND SIZE TO FIT



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 3/8	1/2	5/8	3	2 7/8	3	2 1/4	9	3 7/8	6	7	12	2 1/2	11 1/2	12 1/4	3 1/2	6 1/2	10 1/4	5 3/8	1	3/8	4			6.25
2M	30		1 3/8	1/2	5/8	3	2 7/8	3	2 1/4	9	3 7/8	6	7	12	2 1/2	11 1/2	12 1/4	3 1/2	6 1/2	10 1/4	5 3/8	1	3/8	4			6.25
3																											
4																											
5																											

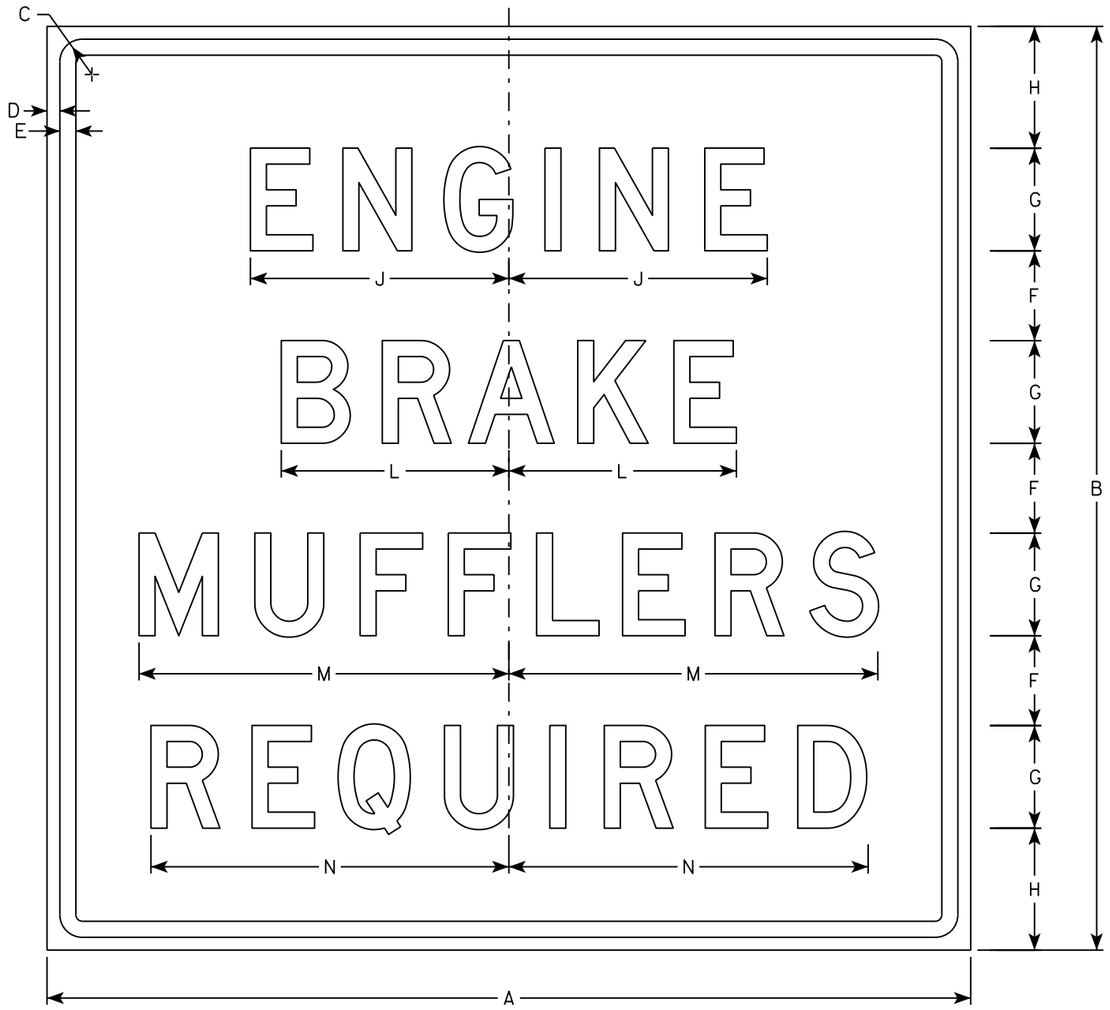
STANDARD SIGN
R10-15R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/2/10 PLATE NO. R10-15R.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 729	E



R10-64

NOTES

1. Signs are Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D See note 5
4. Corners shall be rounded when base material is metal

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	36	1 3/8	1/2	5/8	3 1/2	4	4 3/4	2	10 1/8	3 1/2	8 7/8	14 3/8	14													9.0
2S	36	36	1 3/8	1/2	5/8	3 1/2	4	4 3/4	2	10 1/8	3 1/2	8 7/8	14 3/8	14													9.0
2M	36	36	1 3/8	1/2	5/8	3 1/2	4	4 3/4	2	10 1/8	3 1/2	8 7/8	14 3/8	14													9.0
3	42	42	1 3/8	1/2	5/8	4	5	5	3	12 5/8	4	11 1/8	18	17 3/8													12.25
4																											
5																											

STANDARD SIGN
R10-64

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/3/18 PLATE NO. R10-64.8

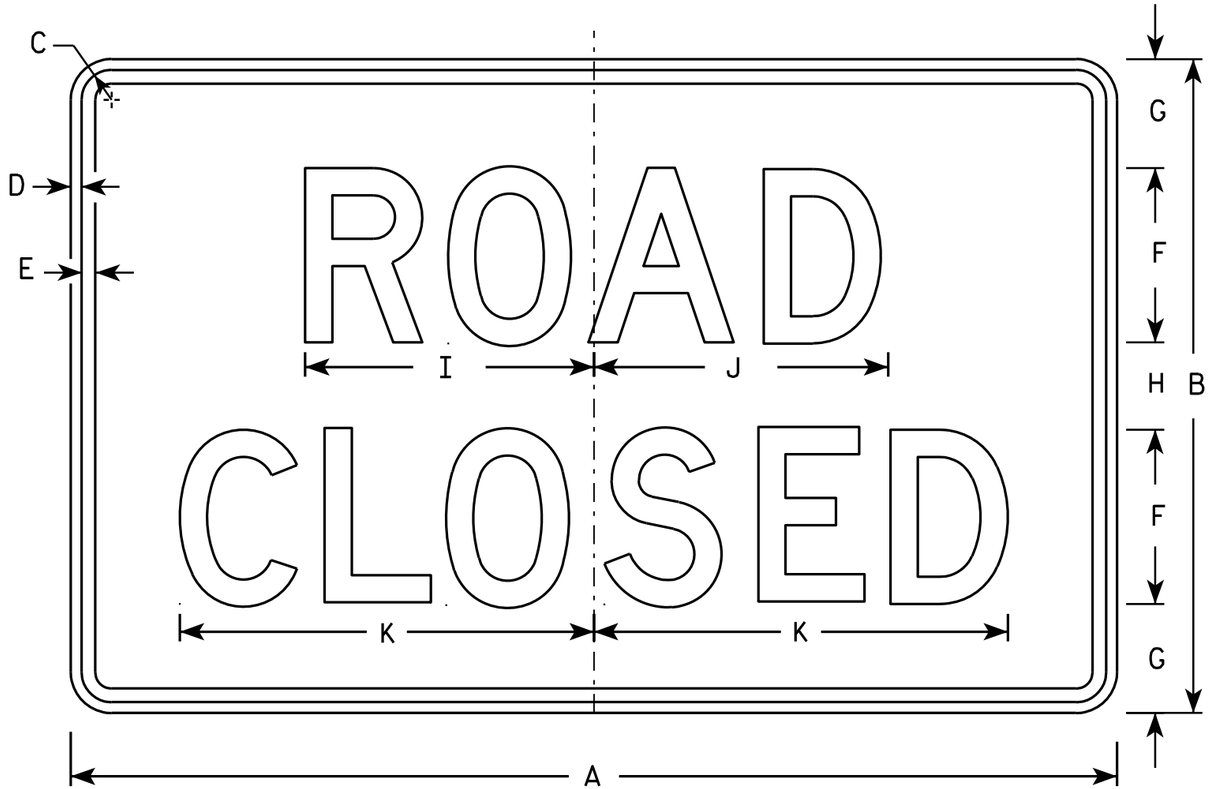
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 730 | E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R1064.DGN PLOT DATE : 03-JAN-2018 17:38 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 5.903922:1.000000

WISDOT/CADDS SHEET 42

7

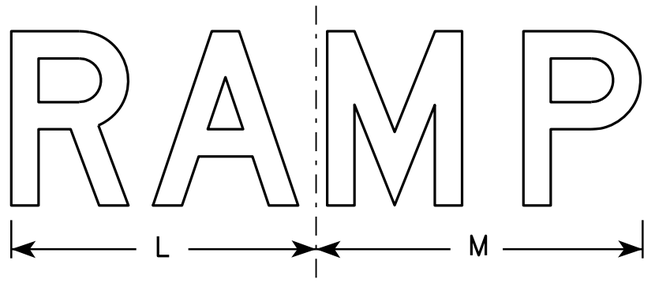
7



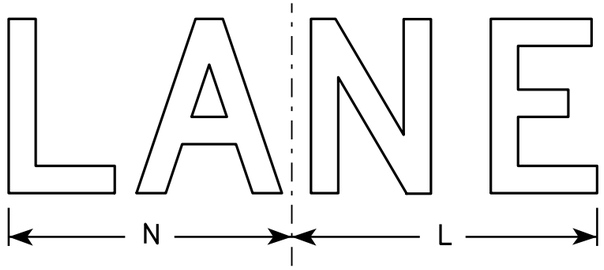
R11-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

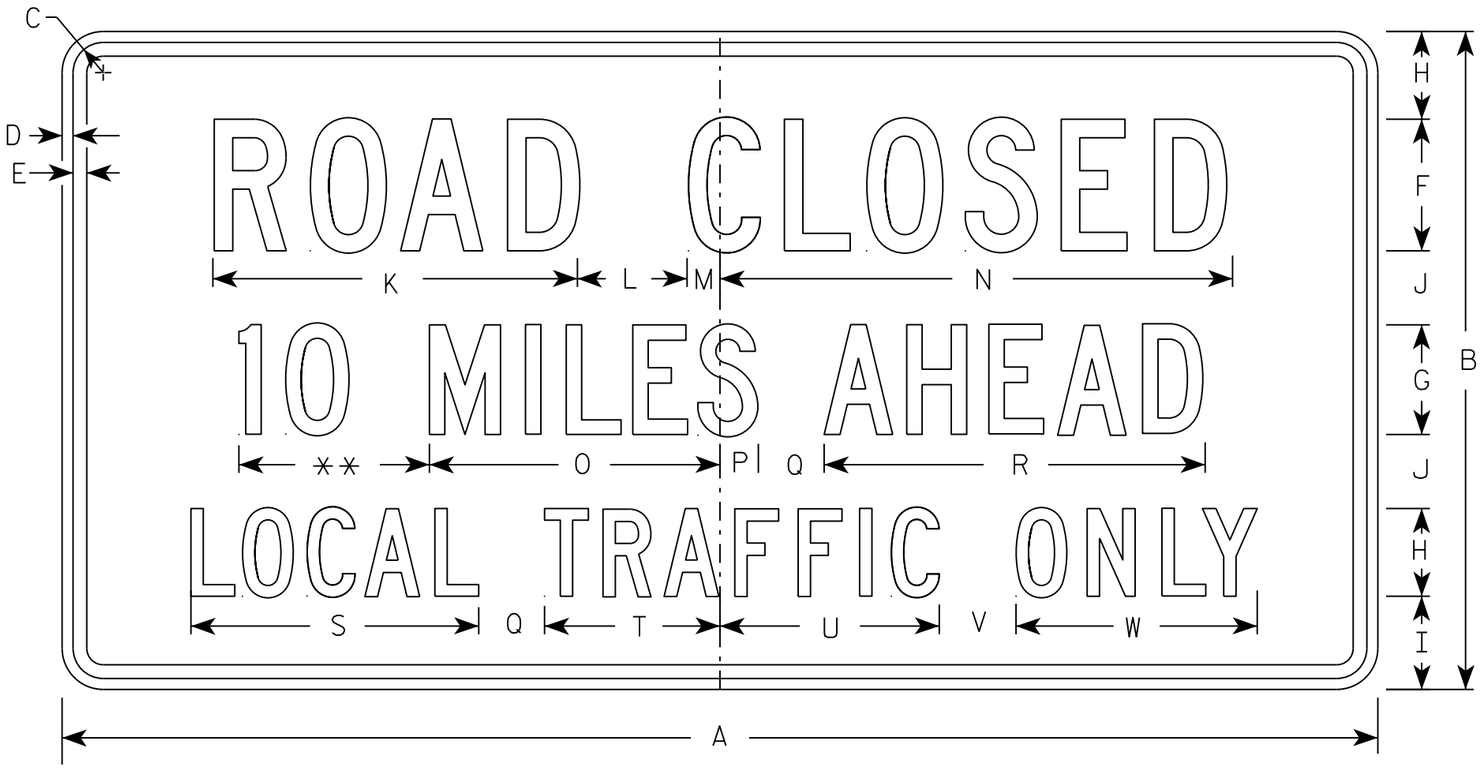
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 731	E

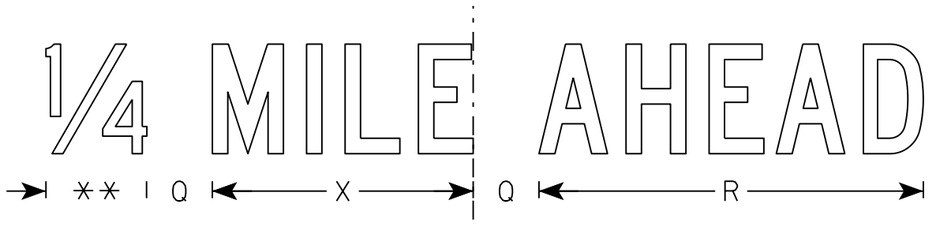
FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112.DGN PLOT DATE : 01-APR-2011 14:25 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.952219:1.000000

WISDOT/CADDS SHEET 42



R11-3

** See Note 5



NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	11 1/8	3	1 1/8	15 1/4	8	1 1/2	2	10 3/4	8 3/8	4 3/4	6 1/2	2	6 3/4	7 1/8			4.5
2S	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11	11 7/8			12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11	11 7/8			12.5
3																											
4																											
5																											

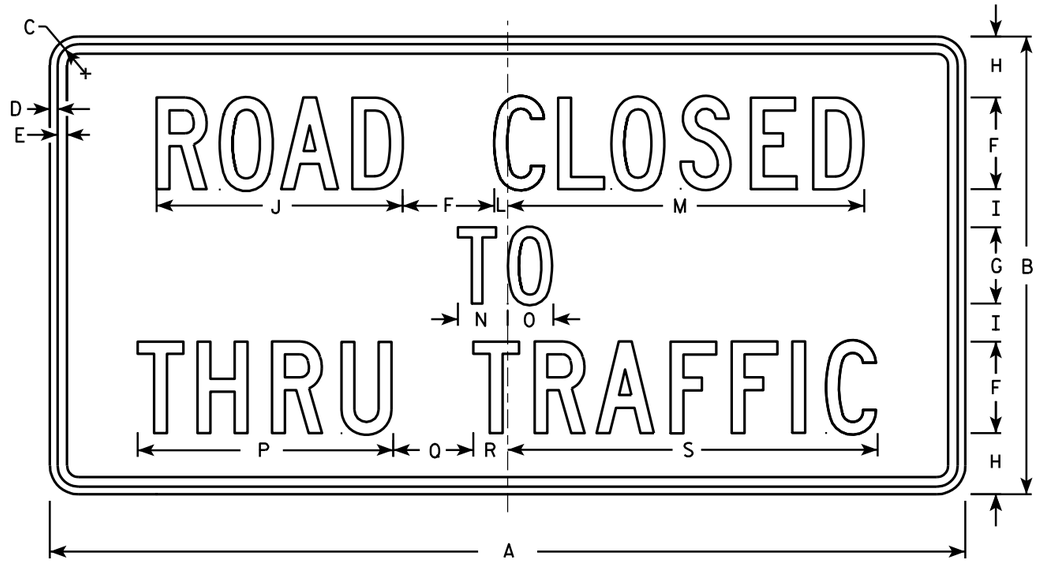
STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/17 PLATE NO. R11-3.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 732 | E



R11-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

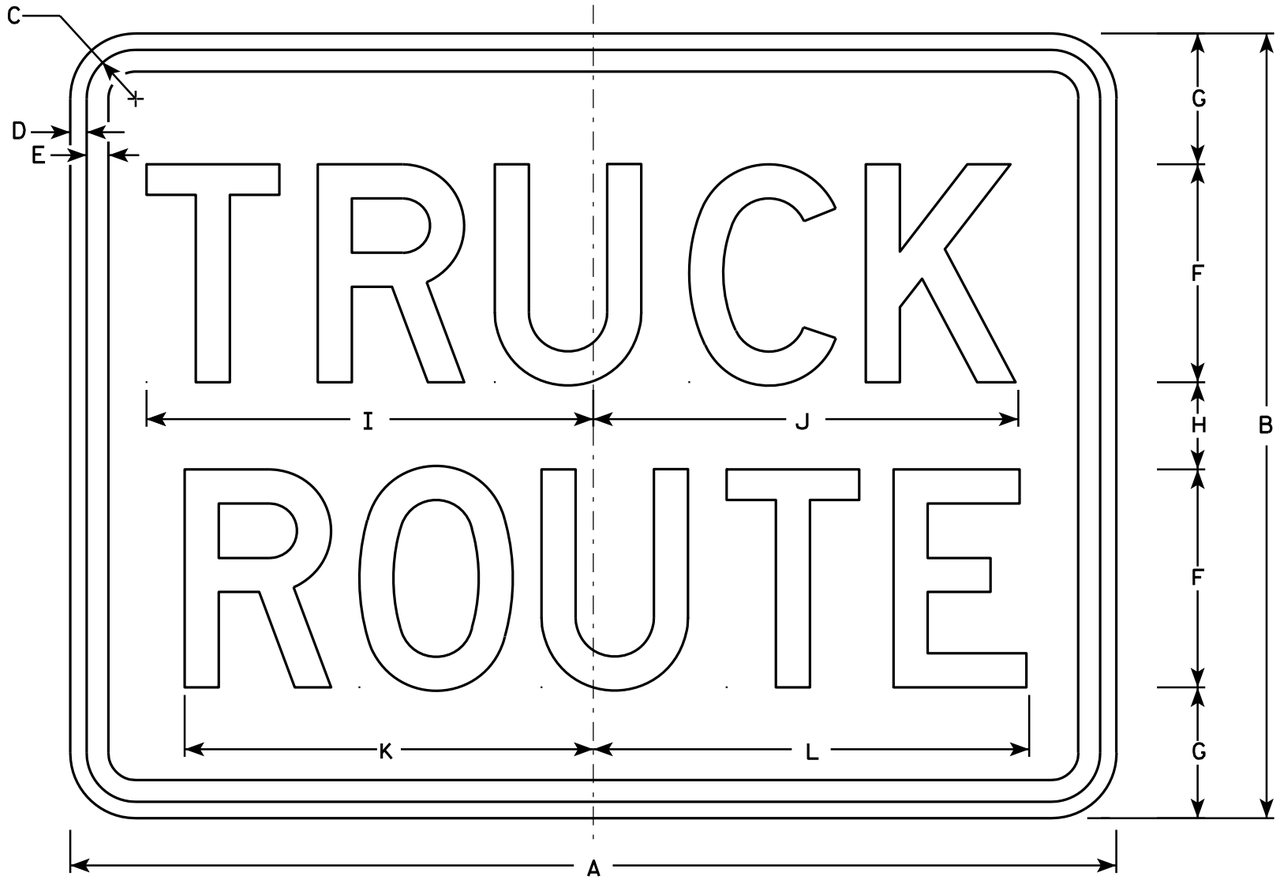
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 733 | E



R14-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	5	3	2	10 1/4	9 3/4	9 3/8	10															3.0
2	24	18	1 1/8	3/8	1/2	5	3	2	10 1/4	9 3/4	9 3/8	10															3.0
3	30	24	1 1/8	3/8	1/2	6	4	4	12 1/4	11 3/4	11 1/4	12															5.0
4																											
5																											

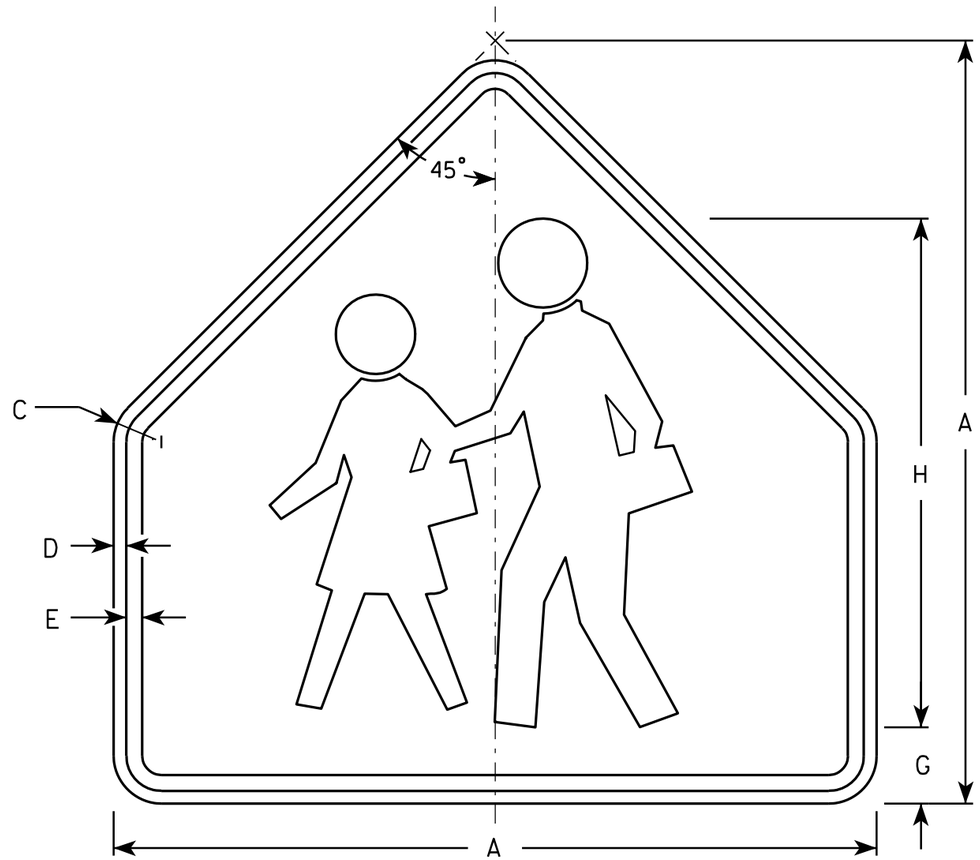
STANDARD SIGN
R14-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew L Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R14-1.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 734	E



S1-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow-Green
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		3	20																			4.69
2	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
3	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
4	48		2 1/4	3/4	1		4 3/4	32																			12
5																											

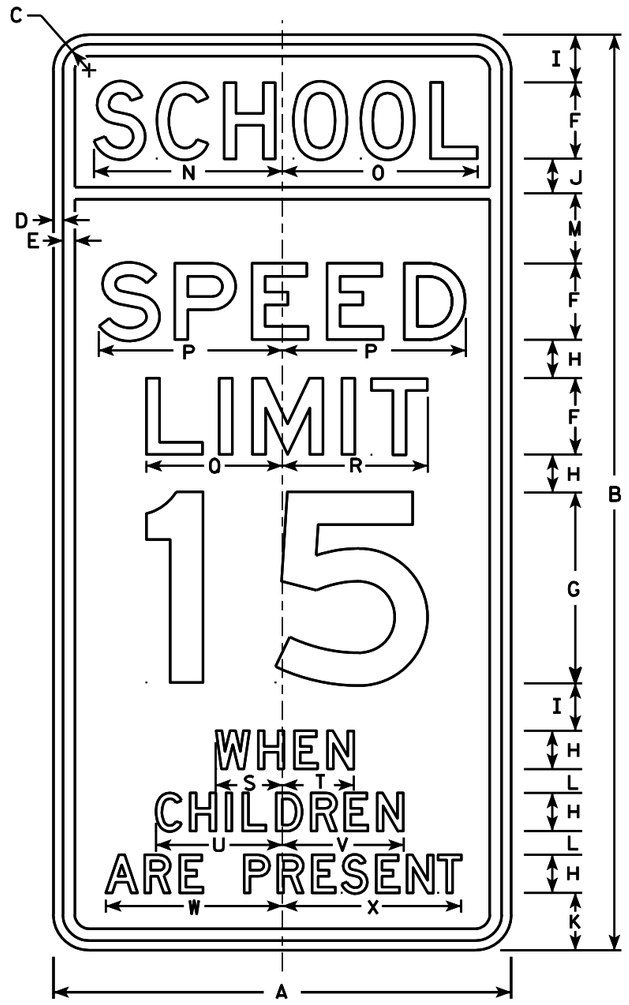
STANDARD SIGN
S1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/05 PLATE NO. S1-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 735	E



S4-51

NOTES

1. Sign is Type II - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. (See note 5).
2. Color:
   Background - See note 5
   Message - Black
3. Message Series - See note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Top panel (SCHOOL) background - Yellow Green -Type F Reflective.
   Lower panel background - White -Type H Reflective.
6. From top to bottom:
   Lines 1, 5, 6 & 7 are series D
   Lines 2, 3 & 4 are series E
7. Line 4 substitute appropriate numerals and adjust spacing to achieve proper balance.

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 1200 mm
3	900 mm X 1800 mm
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	48	1 3/8	1/2	5/8	4	10	2	2 1/2	1 3/4	3	1 1/4	3 3/4	9 7/8	10 1/4	9 5/8	7 1/8	7 5/8	3 1/2	3 3/8	6 5/8	6 3/8	9 1/4	9 3/8			8.00	0.72
3	36	72	2 1/4	3/4	1	6	15	3	3 3/4	2 3/4	4 1/2	1 7/8	5 1/2	15	15 1/4	14 1/2	11 1/4	11 1/2	5 1/2	5 3/4	10	9 3/4	14	14 1/8			18.00	1.62
4																												
5																												

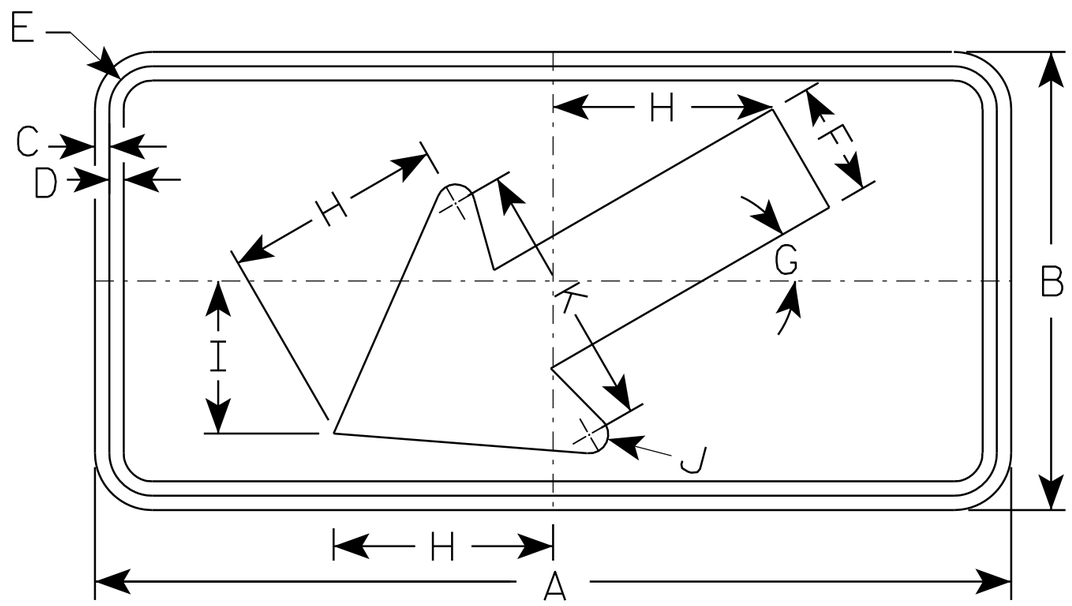
STANDARD SIGN
S4-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/26/10 PLATE NO. S4-51.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 736	E



S16-7L

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow-Green
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. S16-7R are the same as S16-7L except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
2S	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
2M	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4	48	24	1/2	5/8	1 3/8	6	30°	11 1/2	8	1	14																8.0
5																											

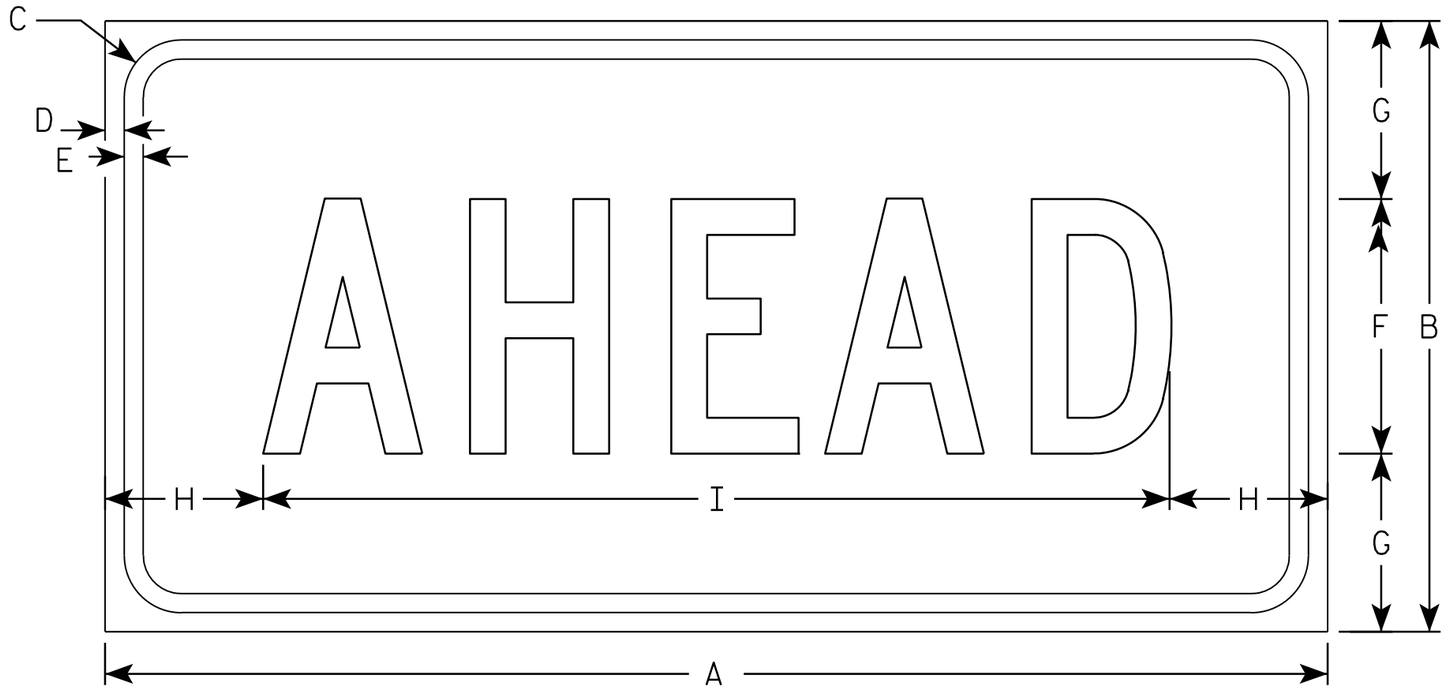
STANDARD SIGN
S16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/22/13 PLATE NO. S16-7.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 737 | E



S16-9P

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow-Green
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2S	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

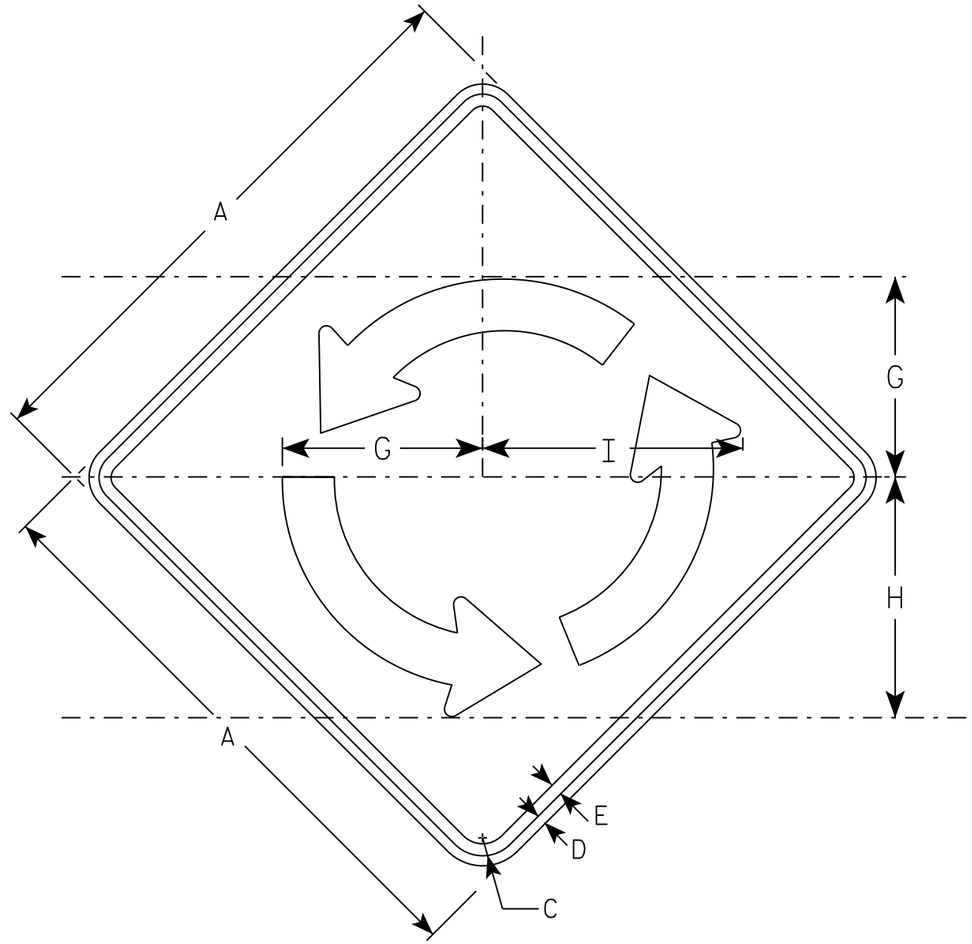
STANDARD SIGN
S16-9P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/22/13 PLATE NO. S16-9P.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 738 | E



W2-6

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - YELLOW
   Message - BLACK

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Area sq. ft.
1																									
2S	30		1 3/8	1/2	5/8		10 3/8	12 1/2	13 1/2																6.25
2M	30		1 3/8	1/2	5/8		10 3/8	12 1/2	13 1/2																6.25
3	36		1 5/8	5/8	3/4		12 1/2	15	16 1/4																9.00
4	48		2 1/4	3/4	1		16 5/8	20	16 1/4																16.0
5																									

STANDARD SIGN
W2-6

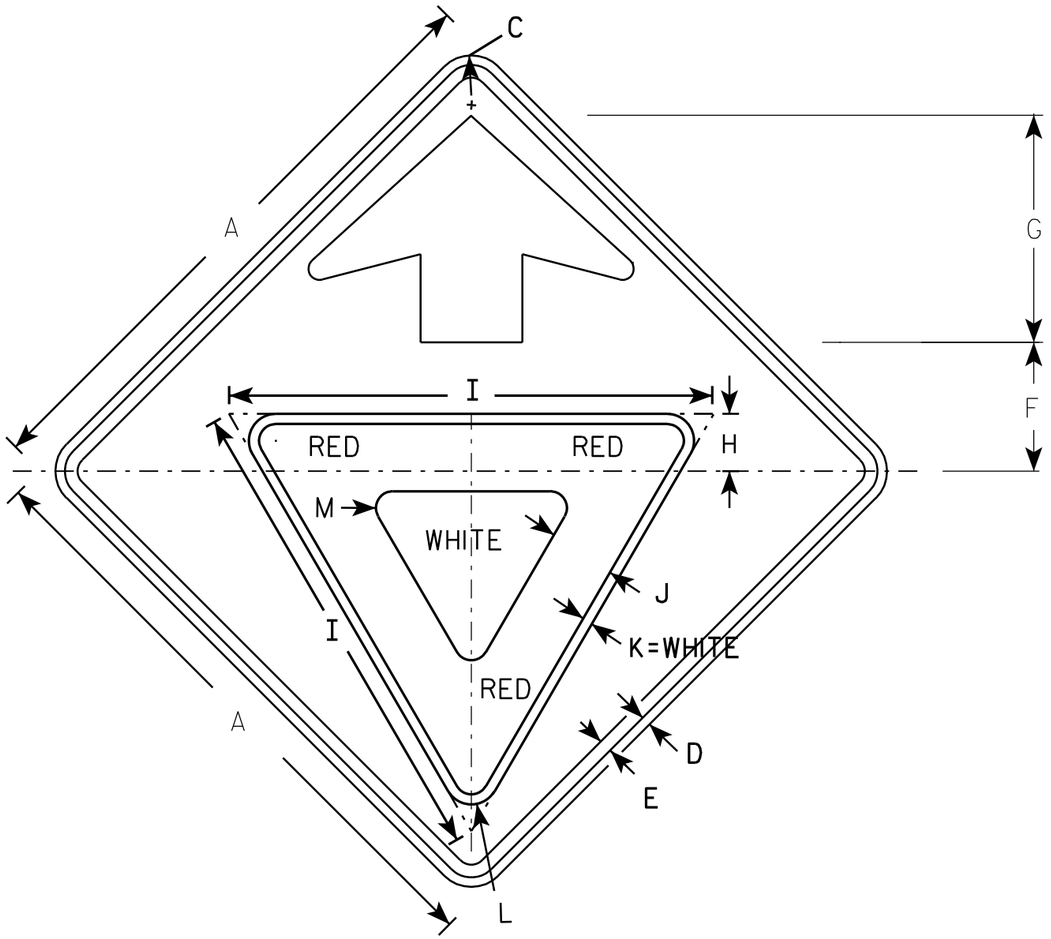
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. W2-6.6

PROJECT NO:

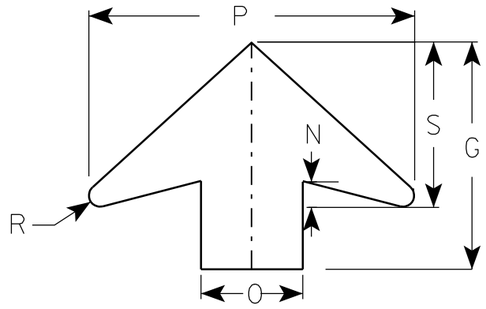
SHEET NO: 739 E



W3-2

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Yield Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	3	25	3 3/8	1/2	1 3/8	7/8	1 1/4	5	16		1/2	8								6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0

STANDARD SIGN
W3-2

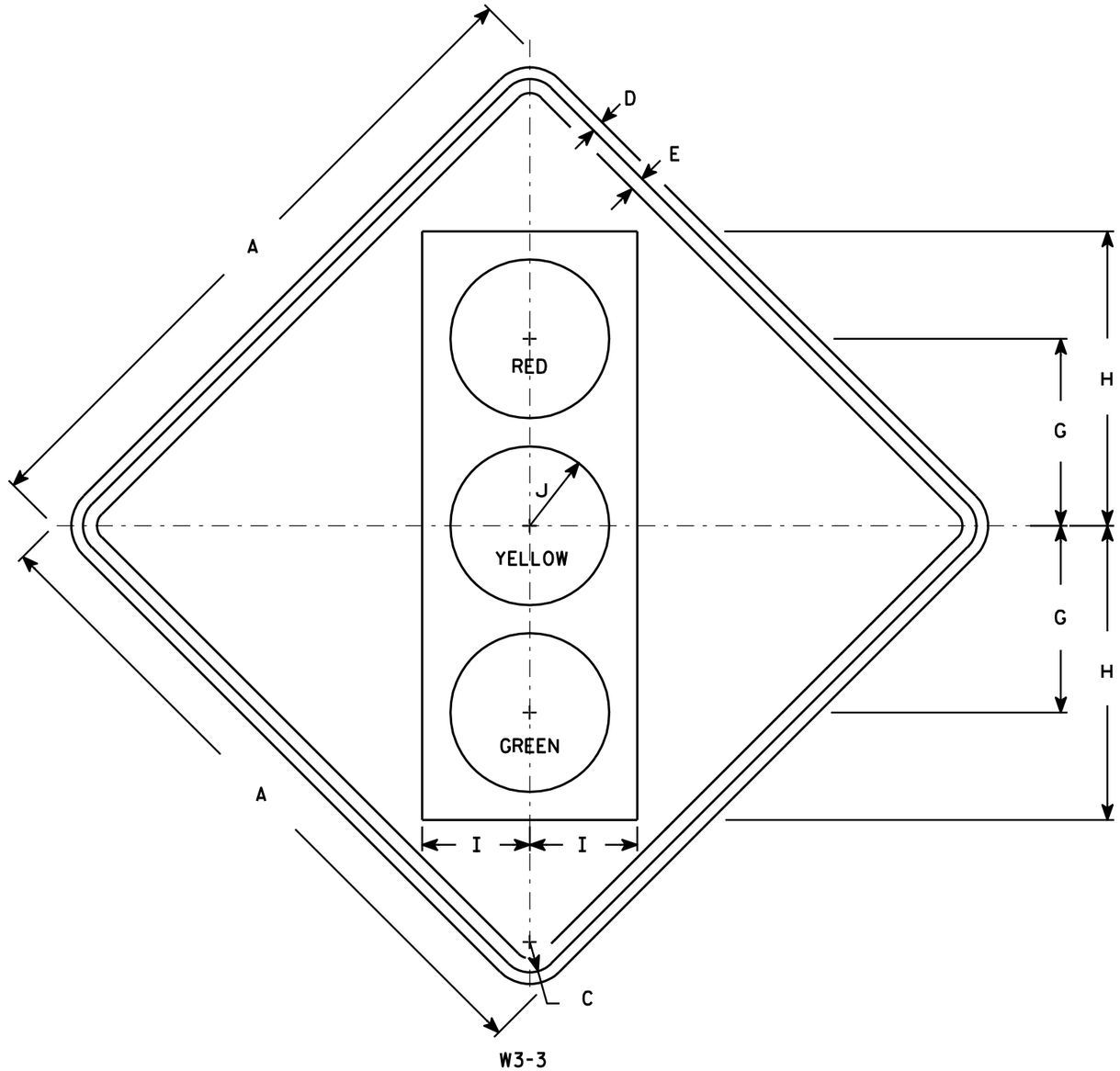
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-2..9

PROJECT NO:

SHEET NO: 740 E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

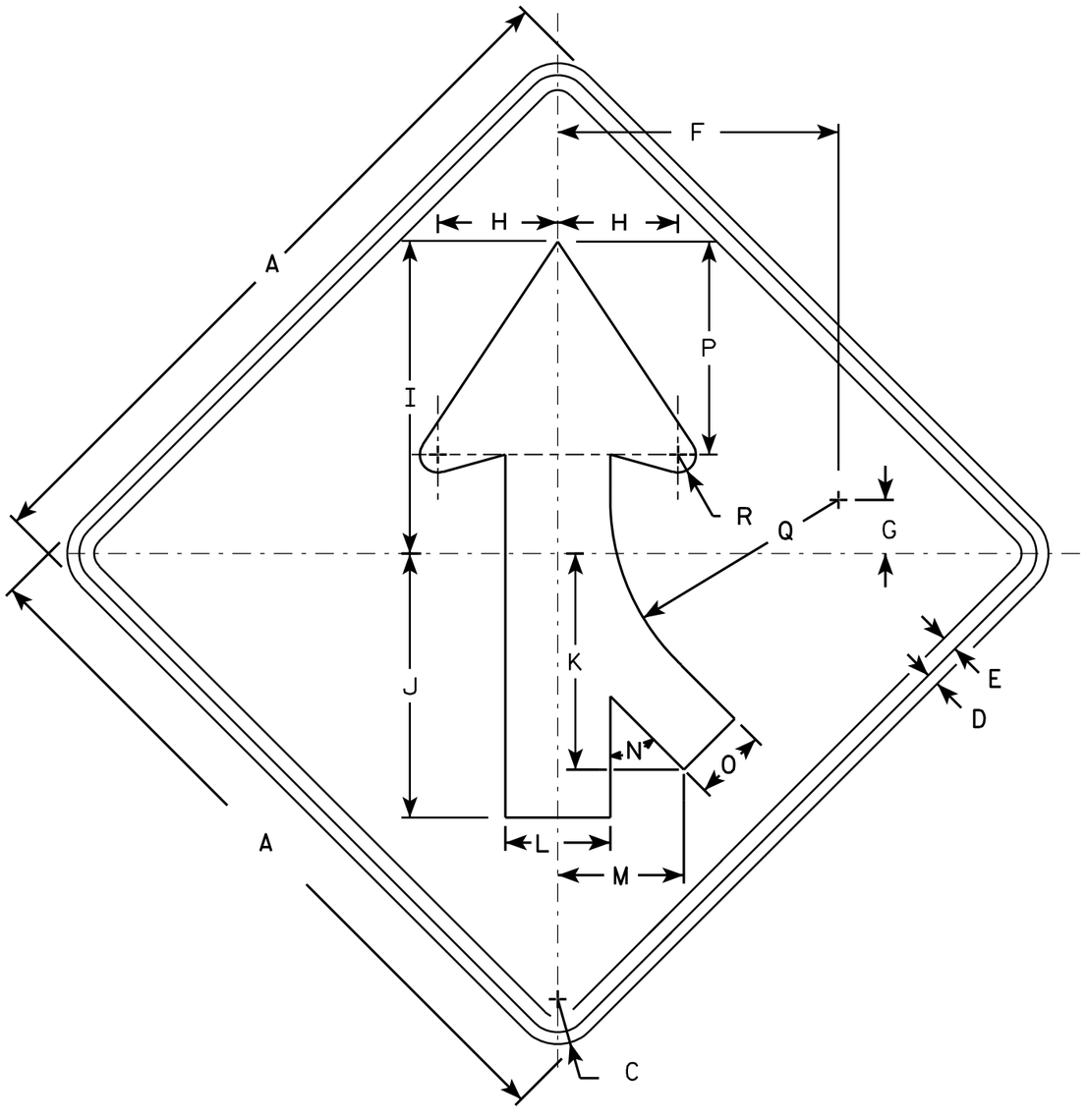
STANDARD SIGN
W3-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 741 | E



W4-1 R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-1L is the same as W4-1R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	11 5/8	2 1/2	5	13	11	9	4 3/8	5 1/4	45°	3	8 7/8	9 1/2	3/4									6.25
2S	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
2M	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
3	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
4	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
5	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0

STANDARD SIGN
W4-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-1.14

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 742	E

W4-4P

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	8	1 1/2	3/8	10	6 1/4	2 1/4	2 1/4	6 1/4											2.0
2M	24	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	8	1 1/2	3/8	10	6 1/4	2 1/4	2 1/4	6 1/4											2.0
3	36	15	1 1/8	3/8	1/2	4	2 5/8	1 3/4	10 3/4	2 3/8	3/8	13 1/2	8 3/8	3	3 1/8	8 3/8											3.75
4	42	18	1 1/8	3/8	1/2	5	3	2	13 3/8	3 1/8	3/8	16 7/8	10 1/2	3 5/8	3 7/8	10 3/8											5.25
5																											

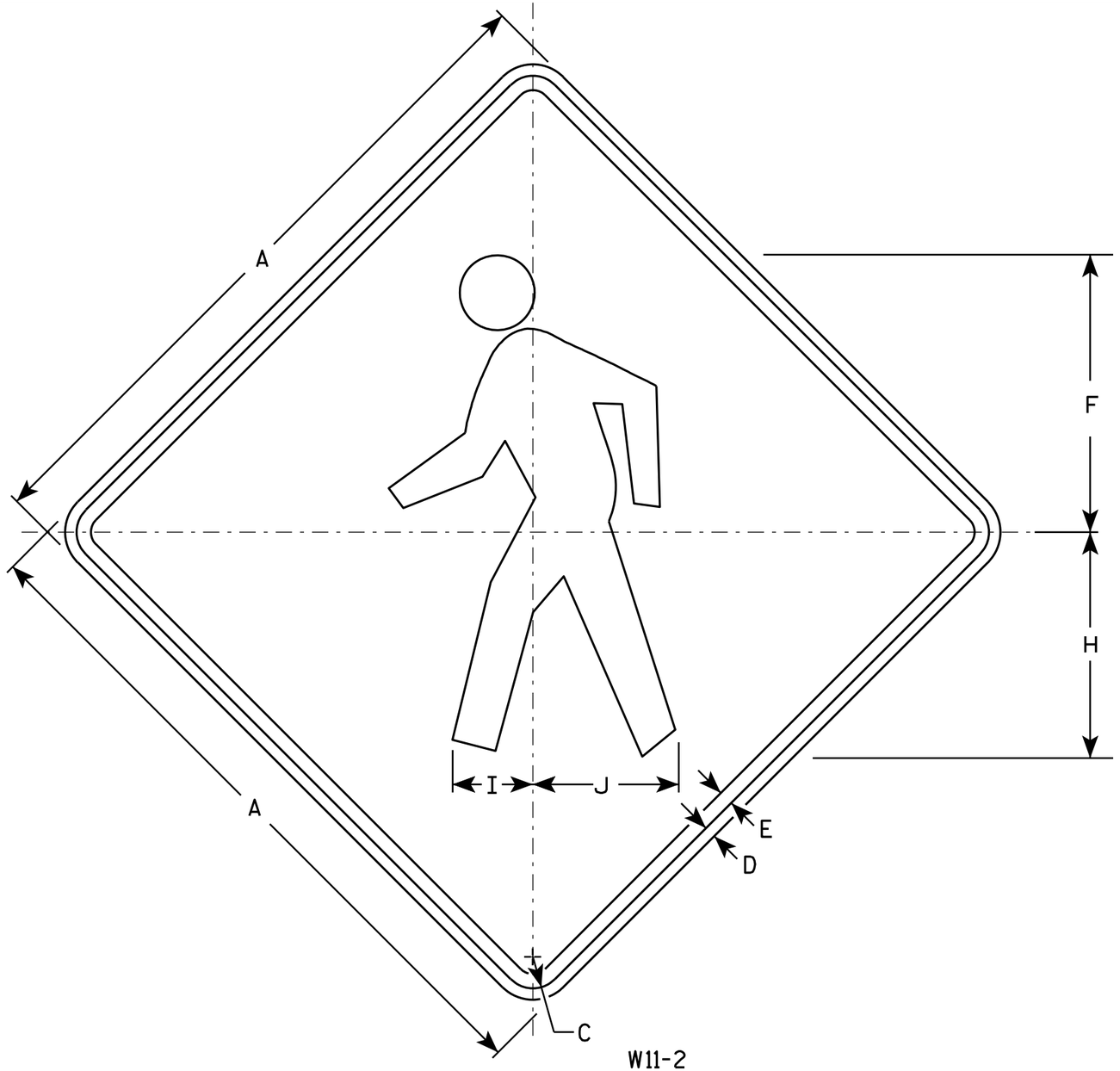
STANDARD SIGN
W4-4P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-4P.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 743	E



W11-2

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	9 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 3/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

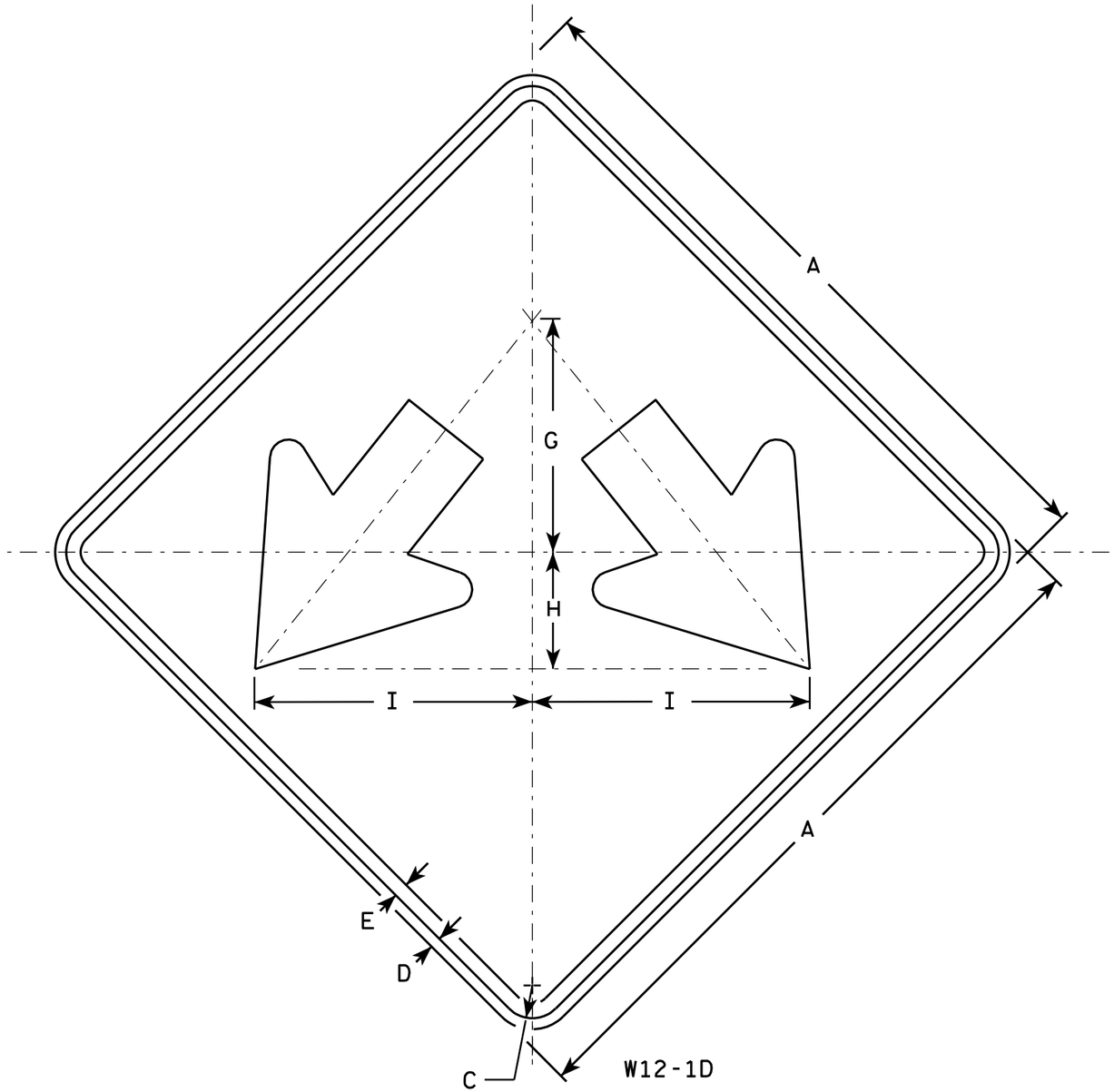
STANDARD SIGN
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

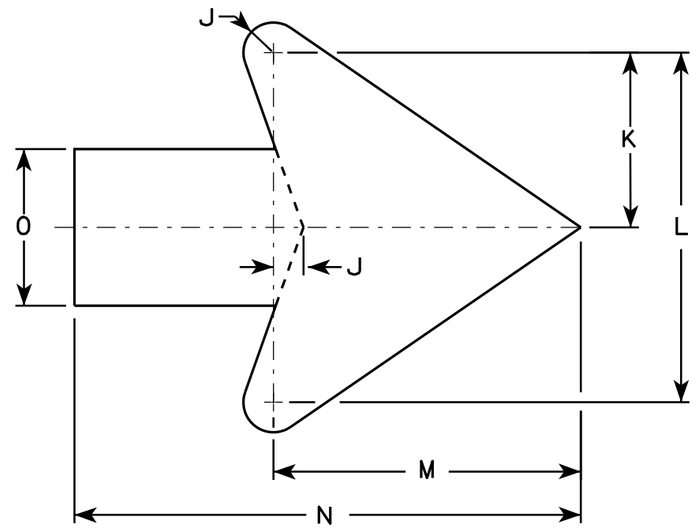
DATE 6/7/10 PLATE NO. W11-2.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 744	E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

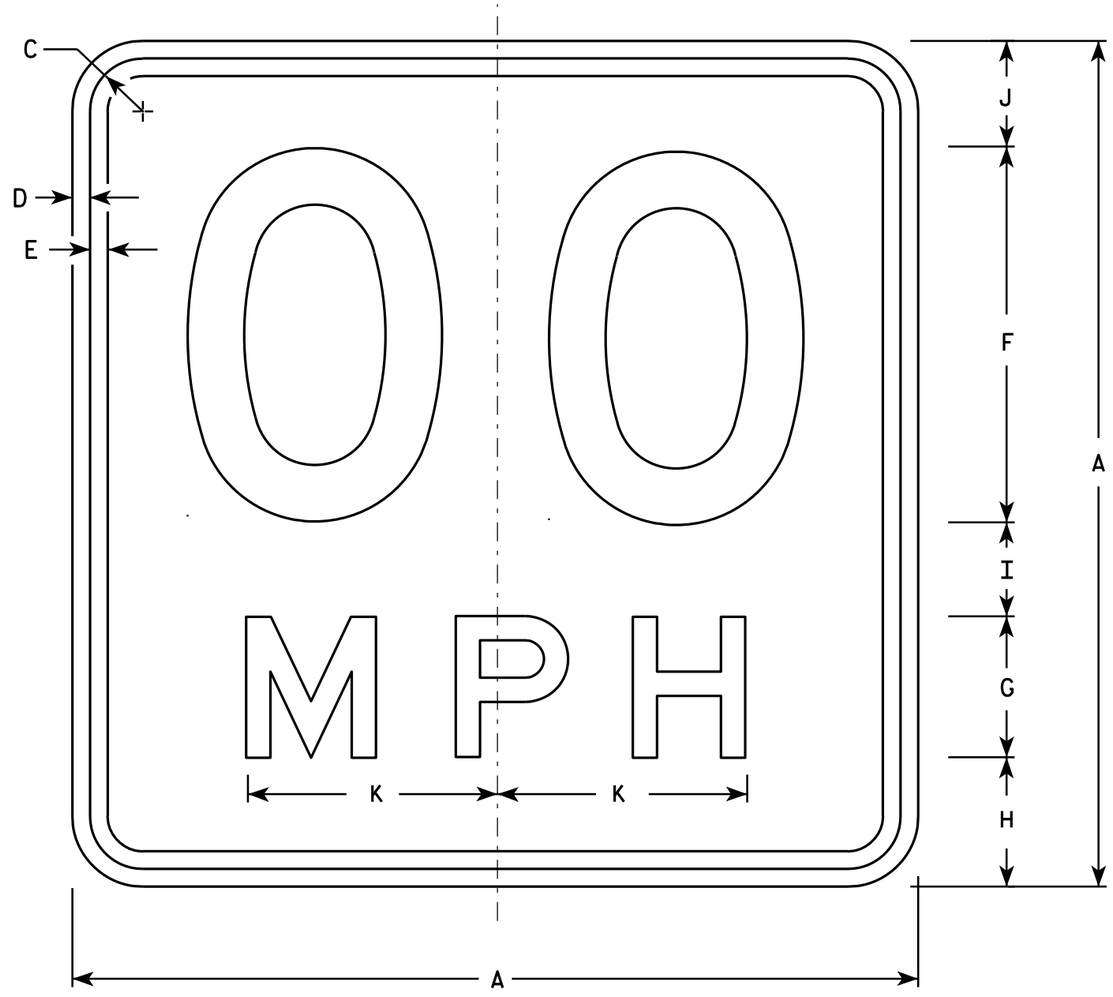
STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 745	E



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

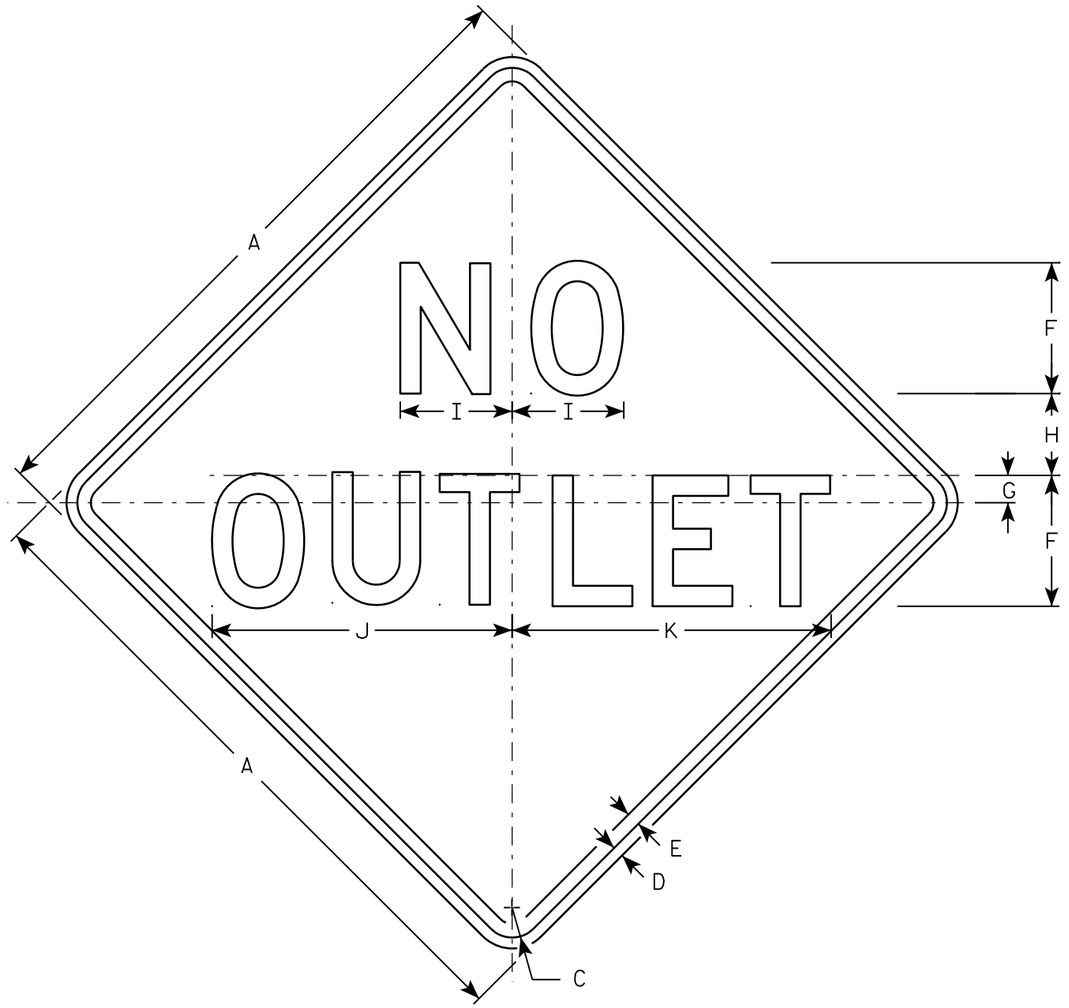
STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 746 | E



W14-2

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	5	1	2 3/4	4 1/8	11 3/4	12 3/8																4.0
2S	30		1 3/8	1/2	5/8	6	1 1/4	3 3/4	5 1/8	13 3/4	14 5/8																6.25
2M	30		1 3/8	1/2	5/8	6	1 1/4	3 3/4	5 1/8	13 3/4	14 5/8																6.25
3	36		1 5/8	5/8	3/4	7	1 3/8	4 5/8	6	16 1/8	17 1/8																9.0
4																											
5																											

STANDARD SIGN
W14-2

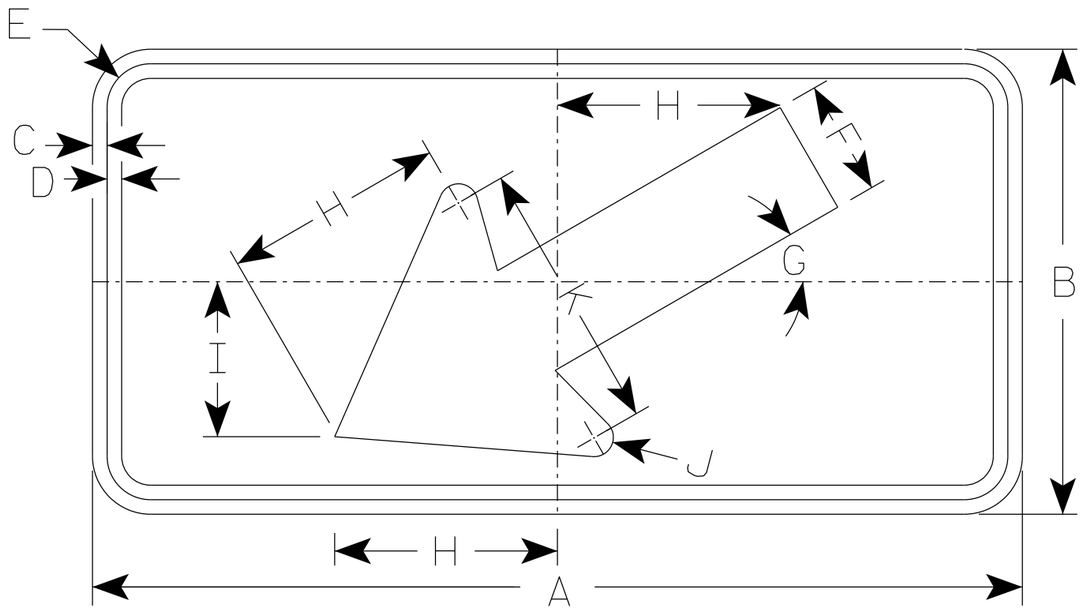
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W14-2.3

PROJECT NO:

SHEET NO: 747 E



W16-7L

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. W16-7R is the same as W16-L
   except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
2M	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4	48	24	1/2	5/8	1 3/8	6	30°	11 1/2	8	1	14																8.0
5																											

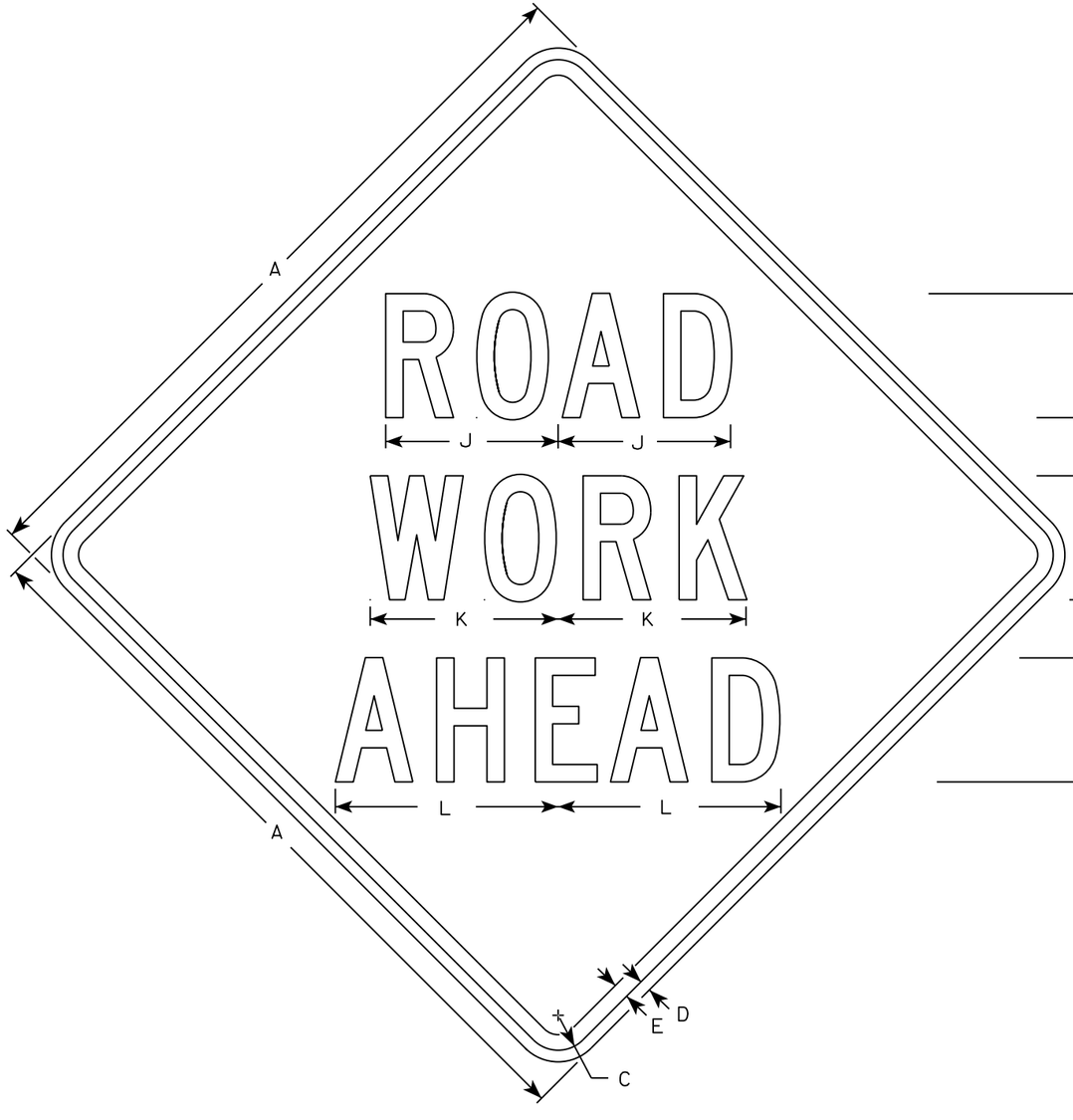
STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

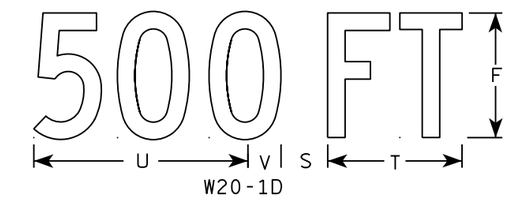
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 7/11/18 PLATE NO. W16-7.6

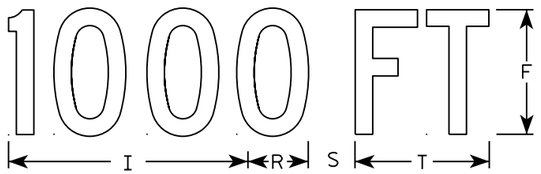
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 748 | E



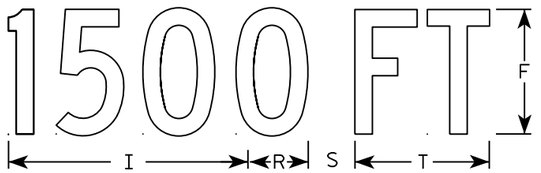
W20-1A



W20-1D

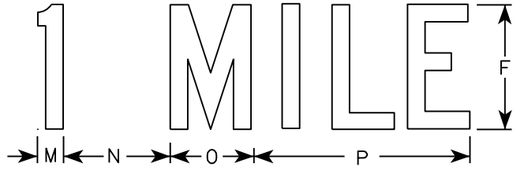


W20-1C

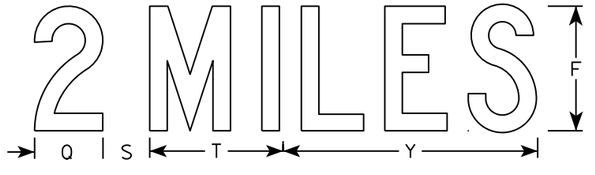


W20-1B

W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

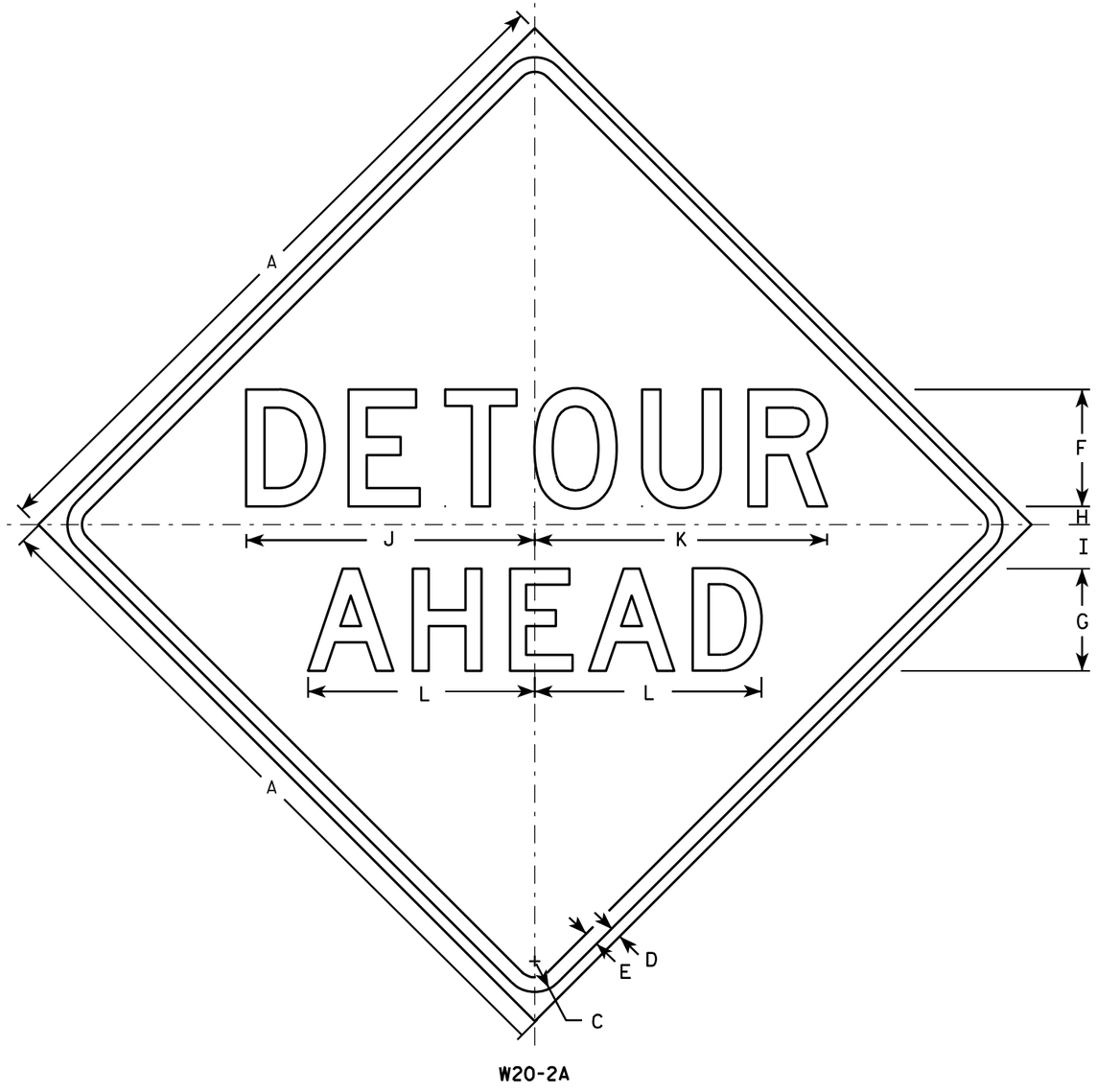
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

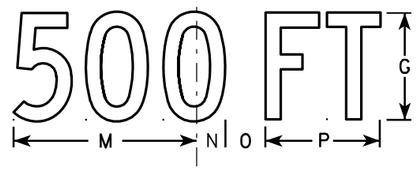
PROJECT NO:

SHEET NO: E

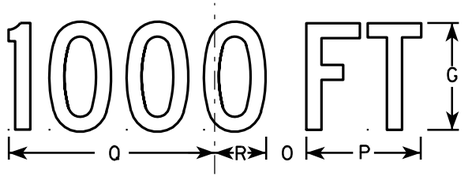
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



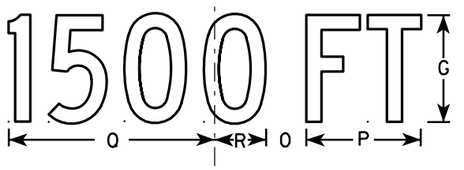
W20-2A



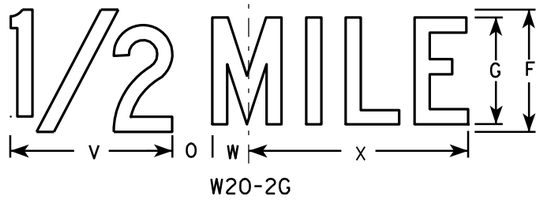
W20-2D



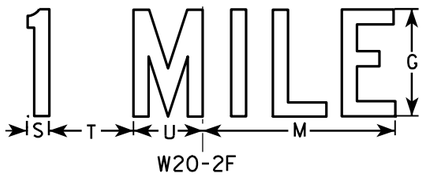
W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

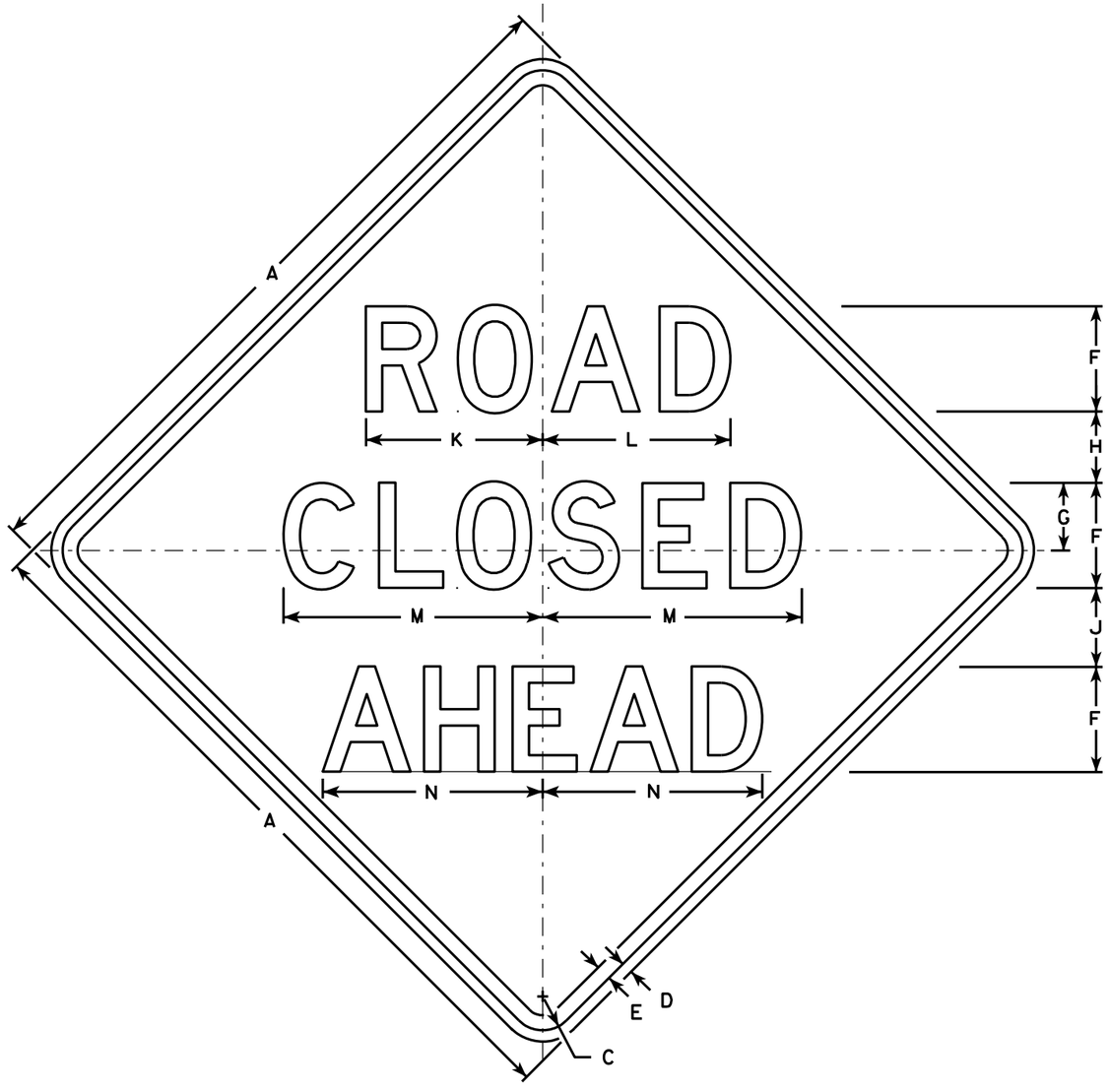
STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

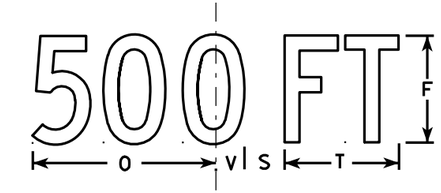
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

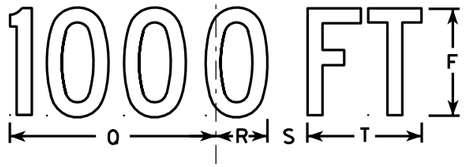
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 750	E



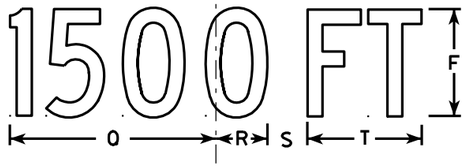
W20-3A



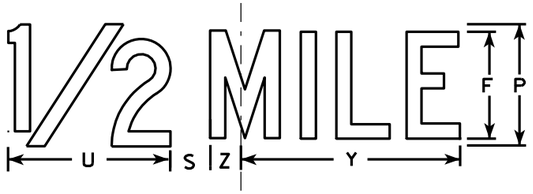
W20-3D



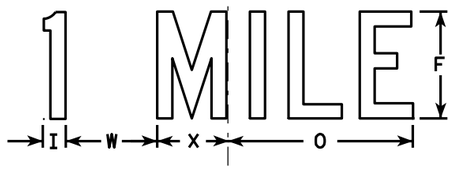
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

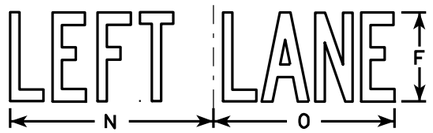
STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

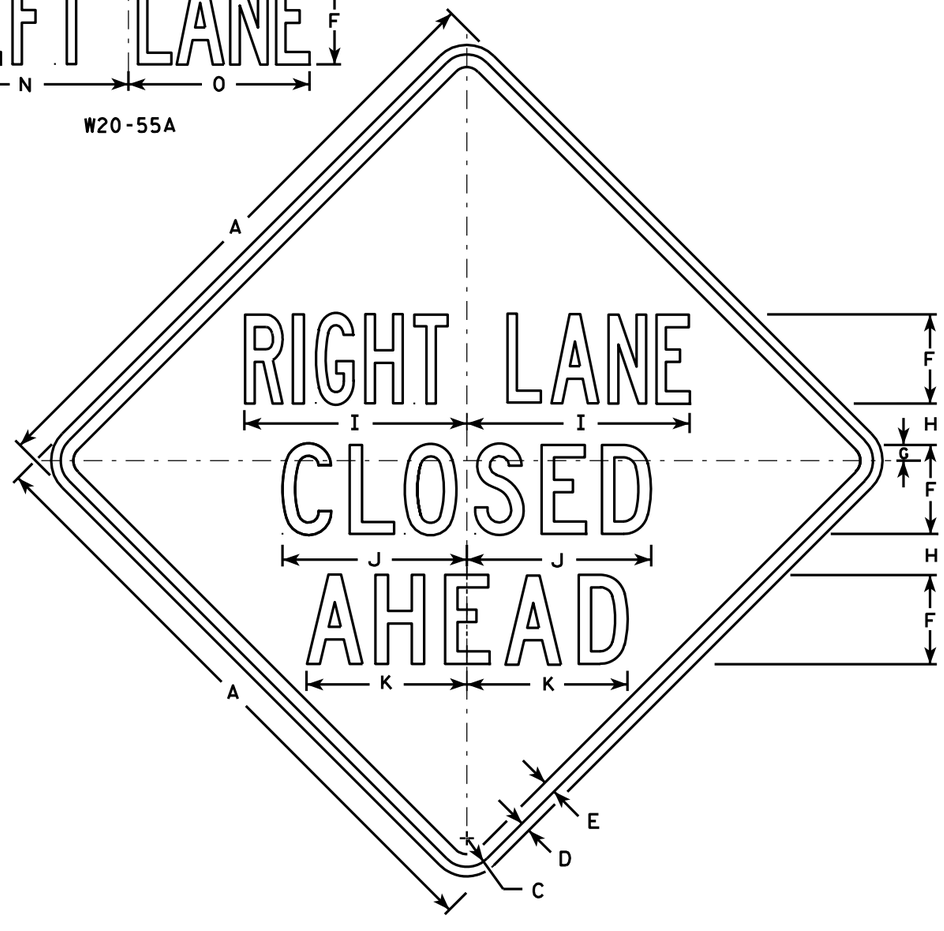
APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 751 | E

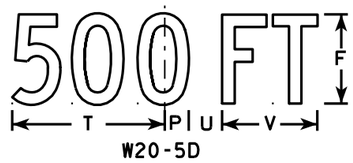
W20-56A



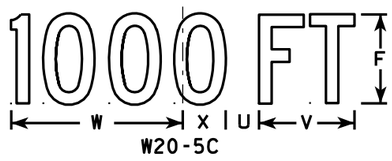
W20-55A



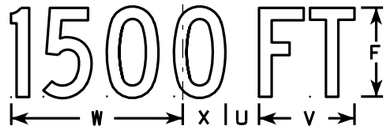
W20-5A



W20-5D



W20-5C



W20-5B

W20-5G

W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5	1/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

STANDARD SIGN
W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

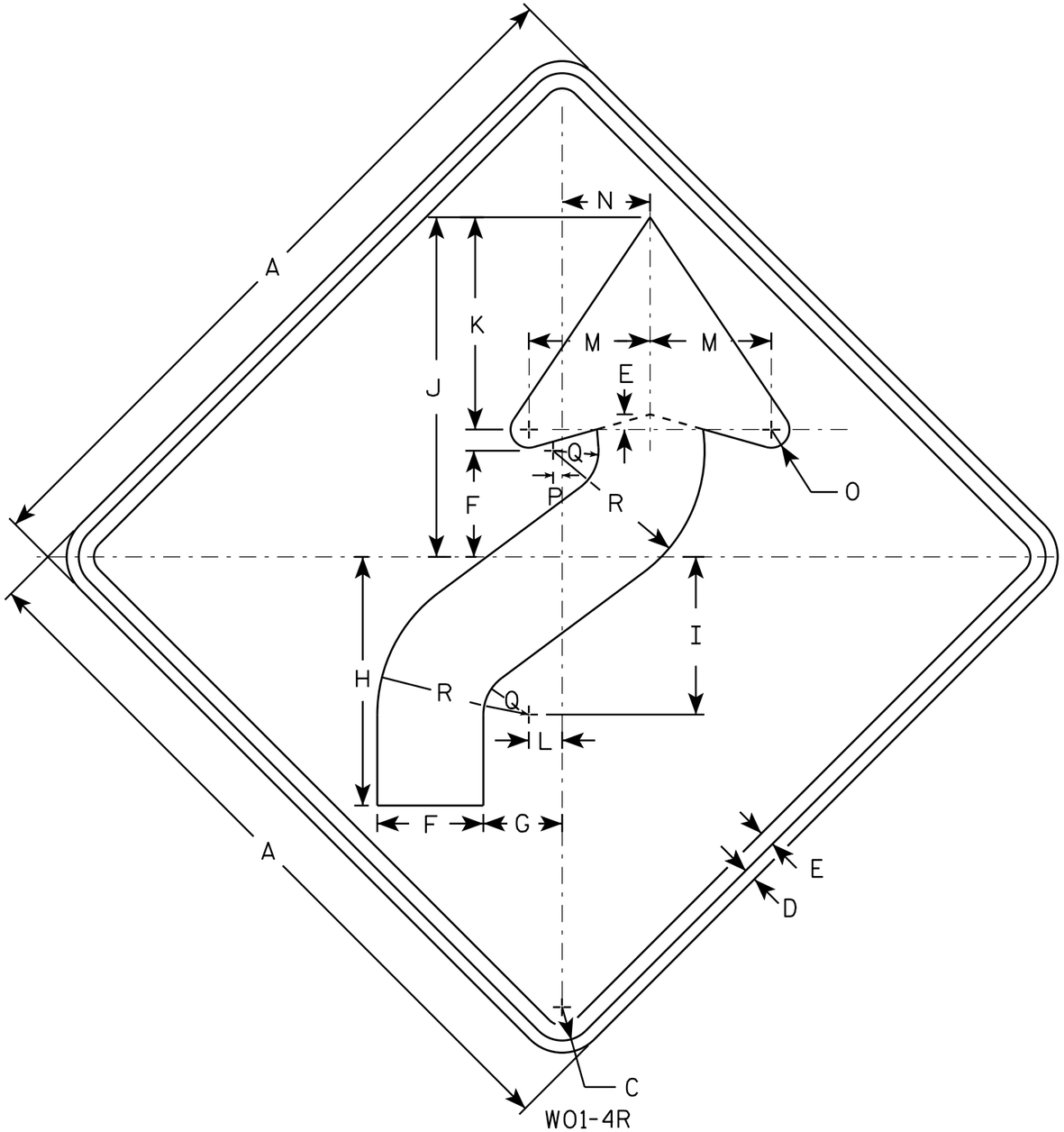
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 752 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000
WISDOT/CADDS SHEET 42



W01-4R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN
W01-4

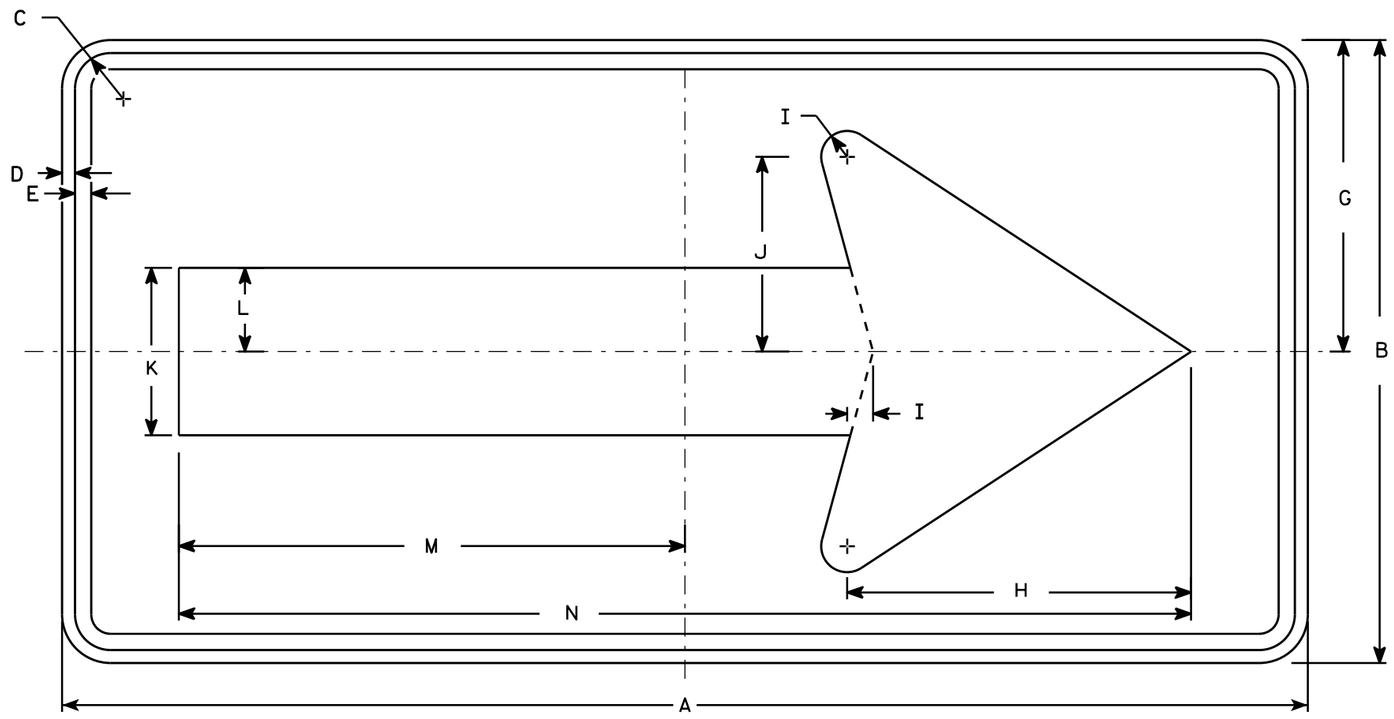
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO W01-4.1

753

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W01-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

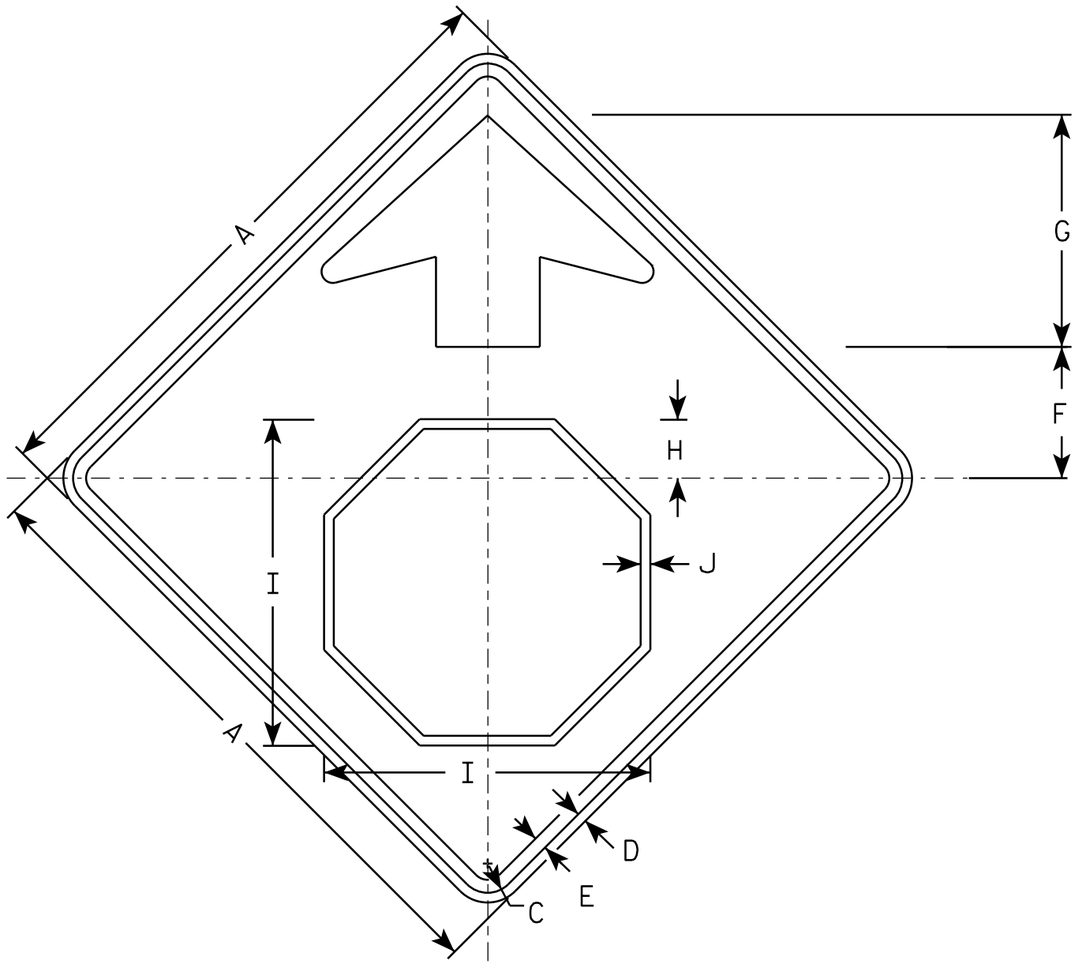
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO W01-6.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

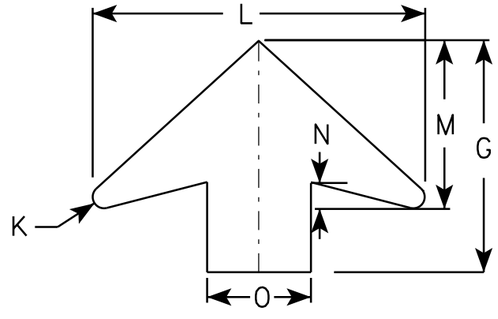
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



W03-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - ORANGE
   Arrow & Border - BLACK
   Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2S	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
2M	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
3	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

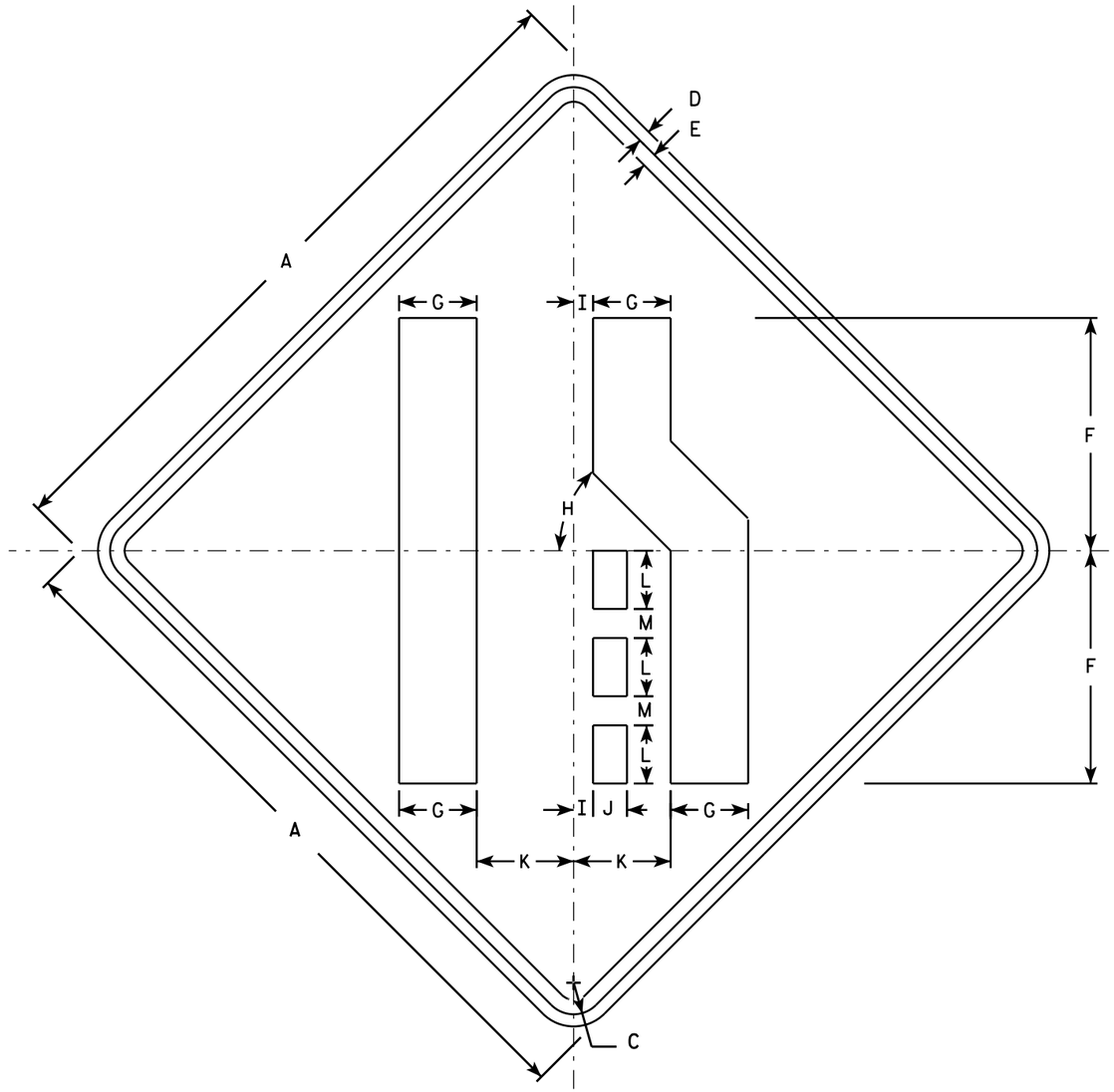
STANDARD SIGN
W03-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 755 03-1.1

PROJECT NO: | SHEET NO: E



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W04-2

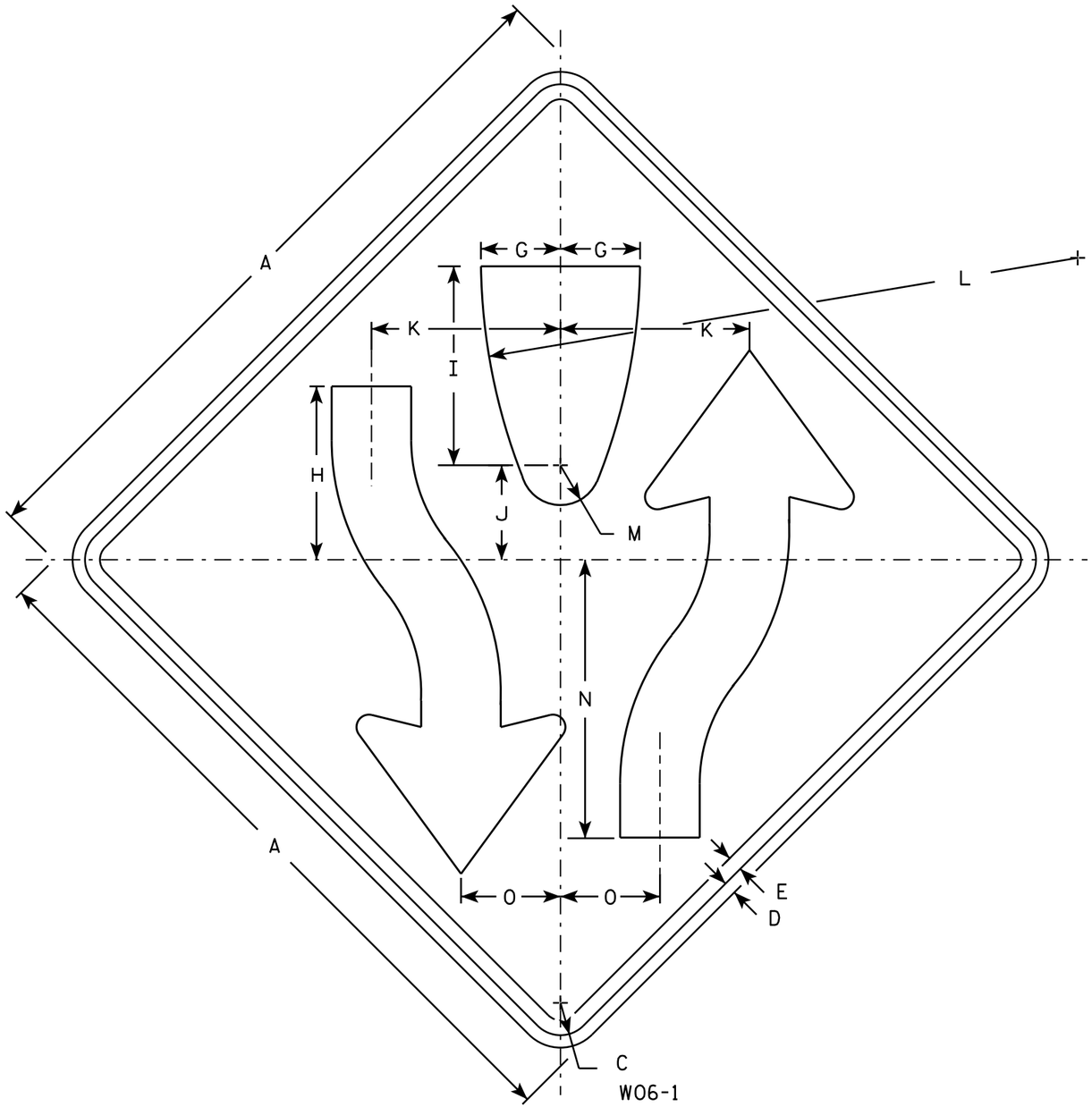
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 756 W04-2.1

PROJECT NO:

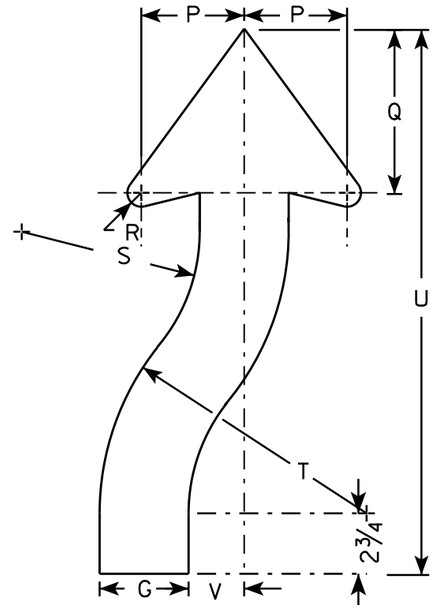
SHEET NO: E



W06-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W06-2 same as W06-1 but is rotated 180° when mounted.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
2S	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
2M	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
3	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
4	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
5	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0

STANDARD SIGN
W06-1 & W06-2

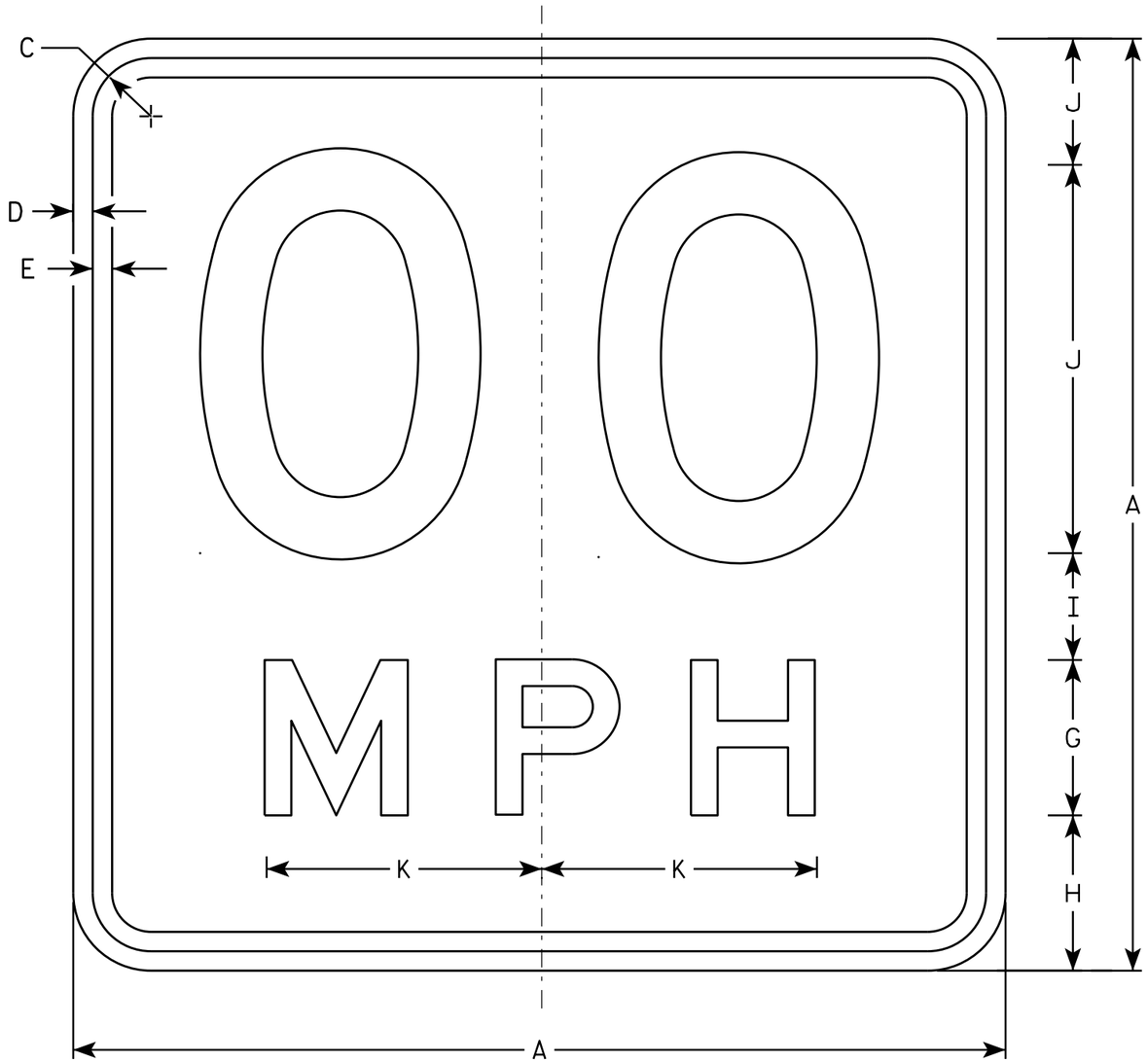
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE NO W06-1.1

757

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



W013-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	7 1/8																4.00
2S	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
2M	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
3	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W013-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

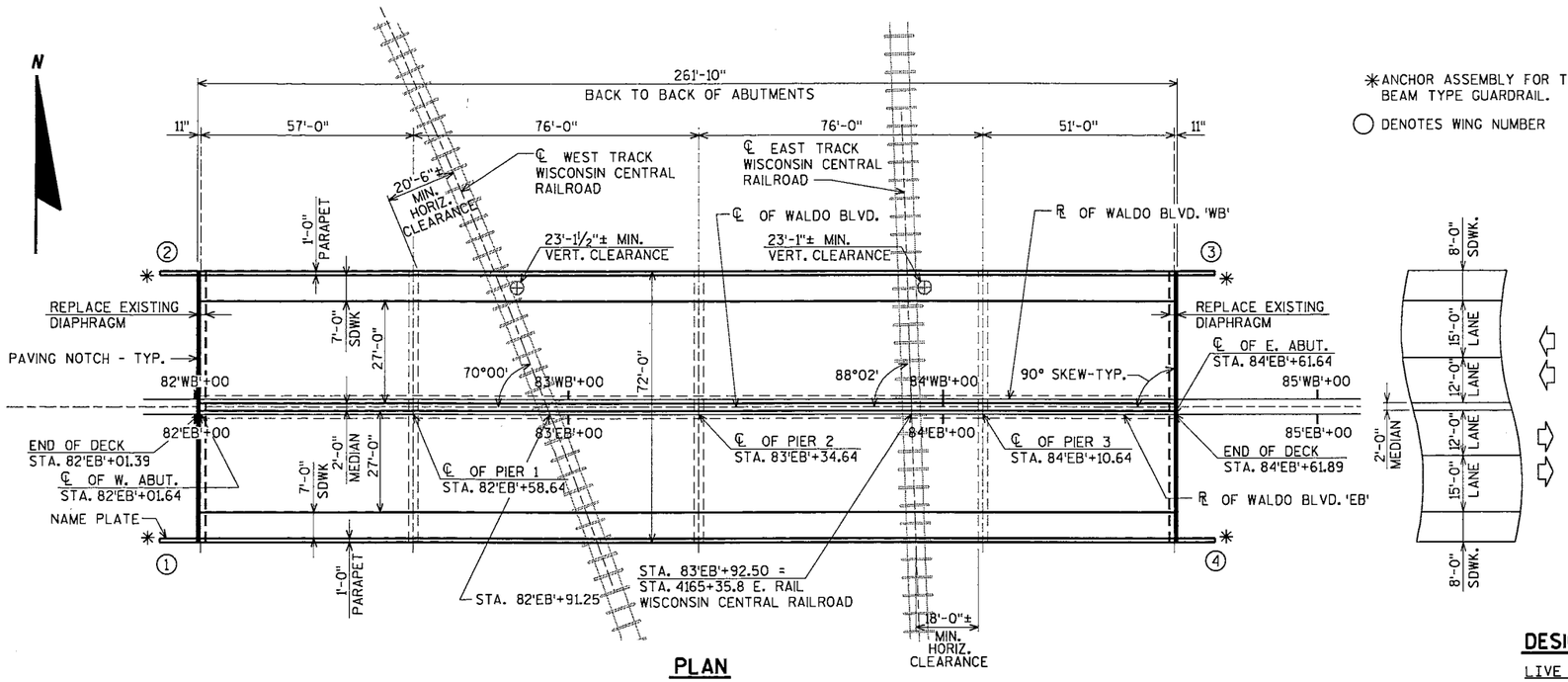
DATE 11/21/13 PLATE 758 W013-1.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W0131.DGN PLOT DATE : 02-DEC-2013 13:55 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.794391:1.000000
WISDOT/CADDS SHEET 42

STATE PROJECT NUMBER

1500-37-71

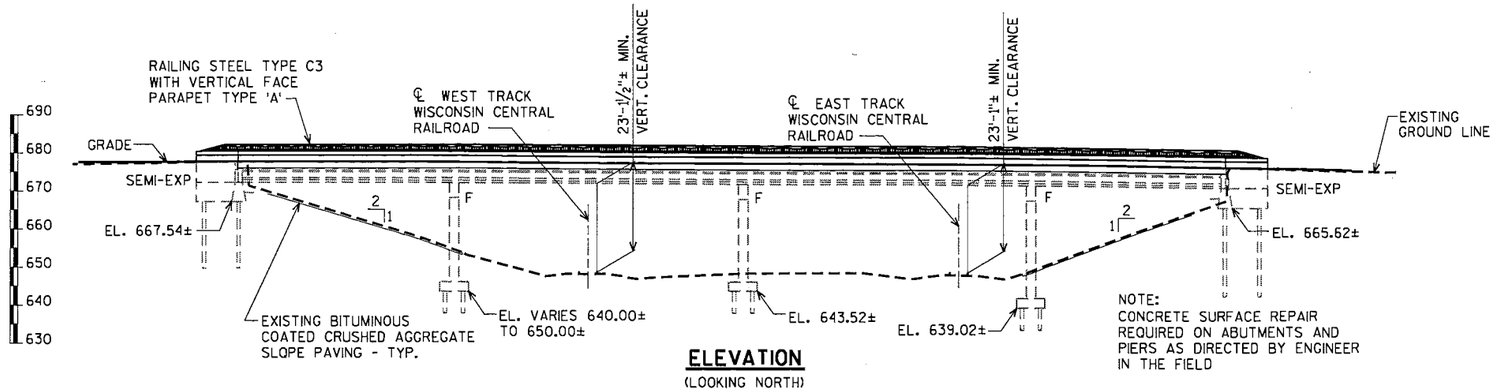


✳ ANCHOR ASSEMBLY FOR THRIE BEAM TYPE GUARDRAIL.

◯ DENOTES WING NUMBER

PLAN

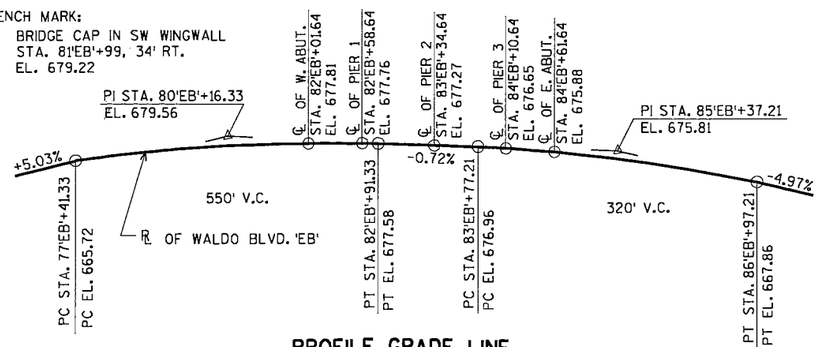
4-SPAN 45" PRESTRESSED GIRDER BRIDGE
(DECK REPLACEMENT)



ELEVATION

(LOOKING NORTH)

BENCH MARK:
BRIDGE CAP IN SW WINGWALL
STA. 81'EB'+99, 34' RT.
EL. 679.22



PROFILE GRADE LINE

WALDO BLVD. 'EB'

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS-20
INVENTORY RATING: HS-21
OPERATING RATING: HS-36
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 250 KIPS

MATERIAL PROPERTIES:

CONCRETE MASONRY	SUPERSTRUCTURE	f'c =	4,000 p.s.i.
	ALL OTHER	f'c =	3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60)		fy =	60,000 p.s.i.

TRAFFIC DATA:

A.A.D.T. = 9,700 (2016)
A.A.D.T. = 11,300 (2036)
R.D.S. = 40 M.P.H.

FOR TYPICAL SECTION AND GENERAL NOTES SEE SHEET 2

LIST OF DRAWINGS

1. GENERAL PLAN
2. TYPICAL SECTION, QUANTITIES & NOTES
3. WEST ABUTMENT
4. WEST ABUTMENT DETAILS & BILL OF BARS
5. EAST ABUTMENT
6. EAST ABUTMENT DETAILS & BILL OF BARS
7. STEEL DIAPHRAGM DETAILS
8. DECK ELEVATIONS
9. SUPERSTRUCTURE
10. SUPERSTRUCTURE PLAN
11. SUPERSTRUCTURE DETAILS
12. SUPERSTRUCTURE BILL OF BARS
13. RAILING STEEL TYPE C3 AND VERTICAL FACE PARAPET "A" DETAILS
14. RAILING STEEL TYPE C3 DETAILS

BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608)-266-8489

CONSULTANT CONTACT:
CHRIS MCMAHON
(715)-834-3161

WISCONSIN
CHRISTOPHER B. McMAHON
E-29454
EAU CLAIRE
WI
PROFESSIONAL ENGINEER
6/21/18

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR — 08/02/18
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-36-29

WALDO BLVD. OVER WISCONSIN CENTRAL RAILROAD

COUNTY	MANITOWOC
~~TOWN/CITY/VILLAGE~~	MANITOWOC
DESIGN SPEC.	REHABILITATION
	N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
JLB	JWZ	CLS	CBM

GENERAL PLAN

SHT 759 OF 14

I.D.

DATE:

DATE: DATE: DATE:
CHECKED BY: BACK CHECKED BY: CORRECTED BY:

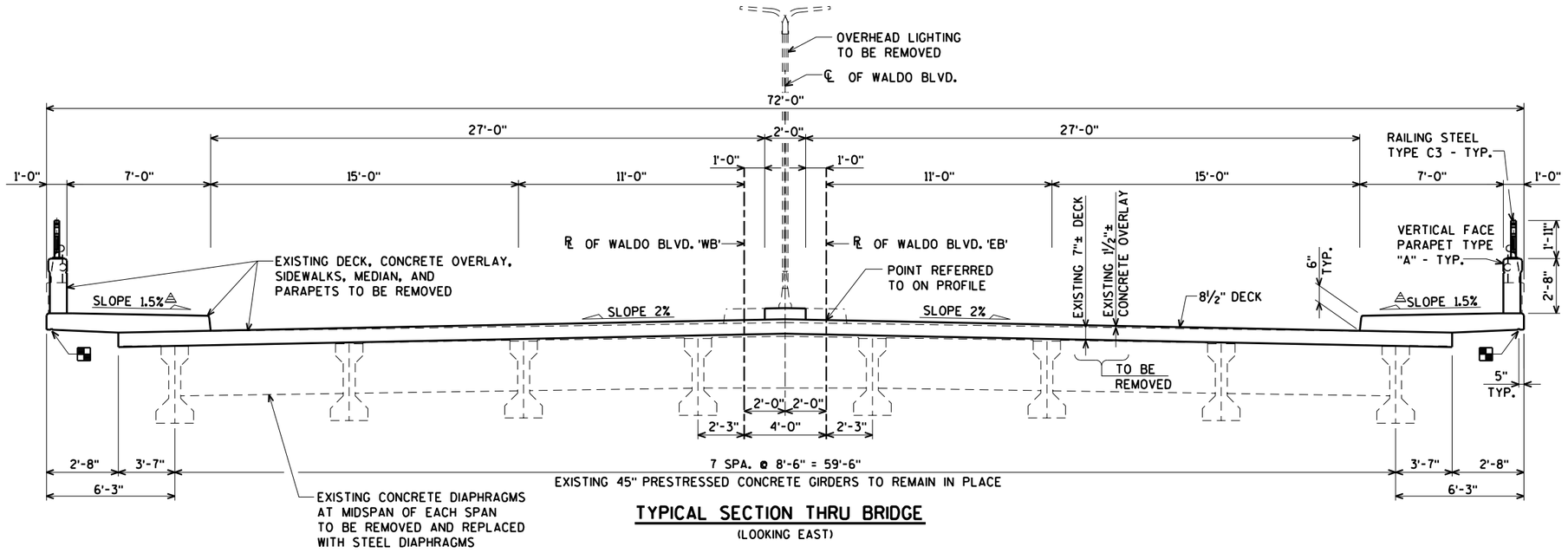
$PRFNAME$
U:\41-0629.00 - Manitowoc County, Waldo Blvd&CN Overpass\BRIDGE\410629 gp.dgn

8

8

6/21/2018

PENTABLE:BRequ_shd_util.tbl



TYPICAL SECTION THRU BRIDGE

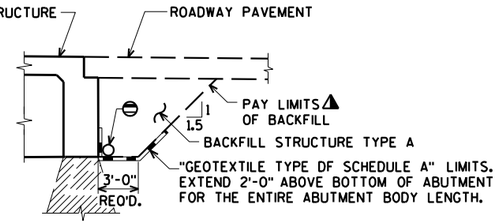
(LOOKING EAST)

△ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

■ ¾" V - GROOVE. EXTEND V - GROOVE TO 6" FROM FRONT FACE OF ABUTMENT DIAPHRAGMS - TYP.

▲ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 4.



BACKFILL STRUCTURE LIMITS THRU ABUTMENT

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	W. ABUT.	E. ABUT.	SUPER.	TOTAL	CATEGORY 0020	CATEGORY 0030
203.0200	REMOVING OLD STRUCTURE STATION 83'EB'+32	LS	-----	-----	-----	1	-----	1
203.0225.S	DEBRIS CONTAINMENT B-36-29	LS	-----	-----	-----	1	-----	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-36-29	LS	-----	-----	-----	1	-----	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	125	125	-----	250	-----	250
502.0100	CONCRETE MASONRY BRIDGES	CY	7	7	716	730	-----	730
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-----	-----	2,085	2,085	-----	2,085
502.3210	PIGMENTED SURFACE SEALER	SY	12	12	215	239	-----	239
502.4204	ADHESIVE ANCHORS NO. 4 BARS	EACH	160	160	822	1,142	-----	1,142
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,050	1,050	163,100	165,200	-----	165,200
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	8	8	-----	16	-----	16
506.4000	STEEL DIAPHRAGMS B-36-29	EACH	-----	-----	28	28	-----	28
506.7050.S	REMOVING BEARINGS B-36-29	EACH	8	8	-----	16	-----	16
◨ 509.1500	CONCRETE SURFACE REPAIR	SF	-----	-----	-----	100	-----	100
513.7016	RAILING STEEL TYPE C3	LF	27	27	524	578	578	-----
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	18	18	-----	36	-----	36
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	125	125	-----	250	-----	250
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	2	2	-----	4	-----	4
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	70	70	-----	140	-----	140
	NON-BID ITEMS							
	FILLER	SIZE	-----	-----	-----	½" & ¾"		

◨ UNDISTRIBUTED QUANTITY FOR SUBSTRUCTURE UNITS AS DIRECTED BY THE ENGINEER, IF NECESSARY.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.

THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMIT FOR EXCAVATION FOR STRUCTURES.

AT BACKFACE OF ABUTMENTS ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE TYPE A.

PROTECTIVE SURFACE TREATMENT IS TO BE APPLIED TO THE TOP OF DECK, TOP OF SIDEWALK, FACE OF CURBS, AND TOP OF MEDIAN.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE TOP AND INSIDE FACES OF PARAPETS.

DIMENSIONS SHOWN ARE BASED ON ORIGINAL STRUCTURE PLANS.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1" DEEP SAW CUT UNLESS SHOWN OR NOTED OTHERWISE.

VARIATIONS TO THE NEW GRADE LINE OVER ½" MUST BE SUBMITTED BY THE FIELD ENGINEER TO THE STRUCTURES DESIGN SECTION FOR REVIEW.

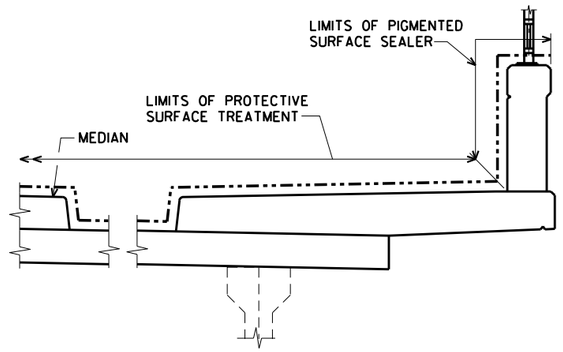
THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW ORIGINAL CONSTRUCTION YEAR OF 1975.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213.

THE MINIMUM CONCRETE HAUNCH SHALL BE 2" FOR DESIGN CALCULATIONS AND THE HAUNCH CONCRETE QUANTITY IS BASED ON AN AVERAGE HAUNCH DEPTH OF 4", WHICH IS THE MAXIMUM HAUNCH QUANTITY FOR WHICH THE CONTRACTOR WILL BE PAID.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS NOTED OTHERWISE.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.



PROTECTIVE SURFACE TREATMENT AND PIGMENTED SURFACE SEALER DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-36-29

DRAWN BY CLS | PLANS CK'D. CBM

TYPICAL SECTION, QUANTITIES & NOTES

SHEET 2 OF 14
760

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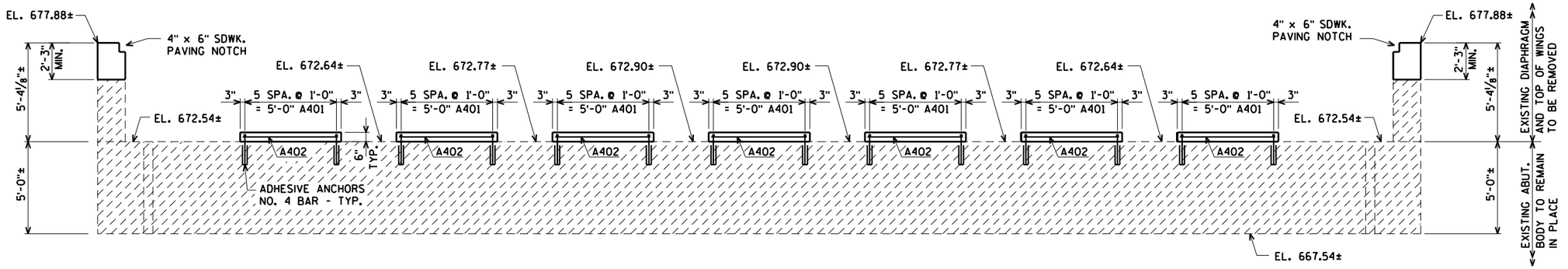
U:\41-0629.00 - Manitowoc County, Waldo Blvd\CN Overpass\BRIDGE\410629 gp typ.dgn

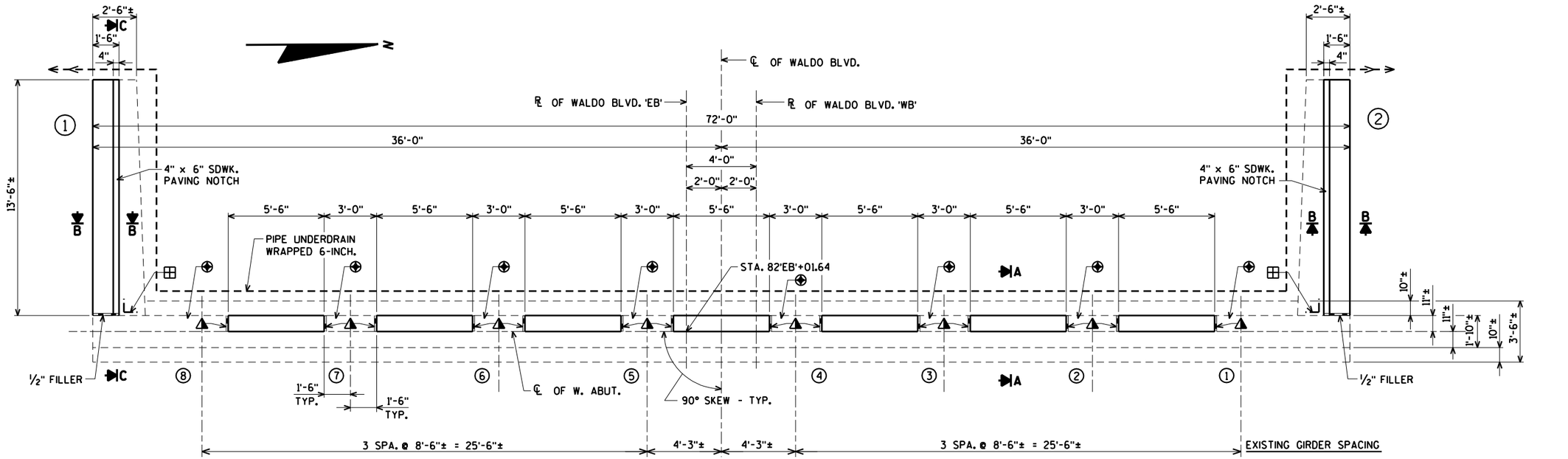
NOTE:
SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE.)

VERTICAL FACE PARAPET "A" NOT SHOWN. FOR DETAILS SEE SHEET 13

STATE PROJECT NUMBER
1500-37-71



ELEVATION
(LOOKING WEST)



PLAN

FOR SECTIONS A, B, AND C SEE SHEET 4

⊞ 18" RUBBERIZED MEMBRANE WATERPROOFING FROM BRIDGE SEAT TO TOP OF WING.

⊕ GRIND SMOOTH TOP OF ABUTMENT AFTER REMOVING DIAPHRAGM CONCRETE.

▲ ¾" CORK FILLER ON VERTICAL FACES THAT RUN PARALLEL WITH GIRDER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-36-29

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WEST ABUTMENT

SHEET 3 OF 14
761

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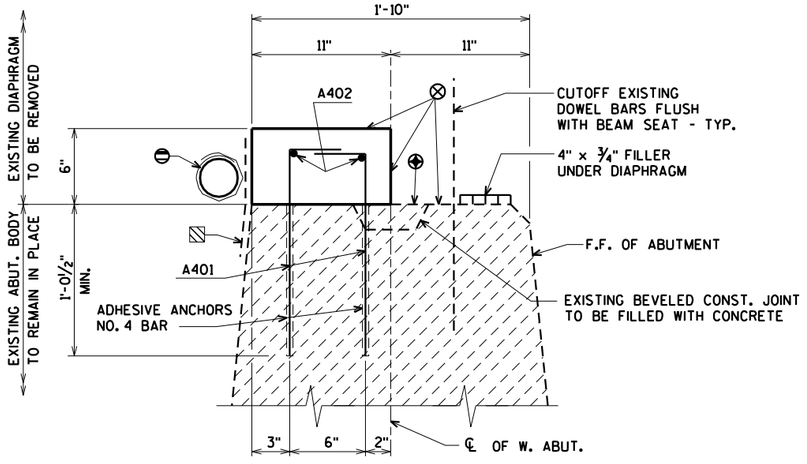
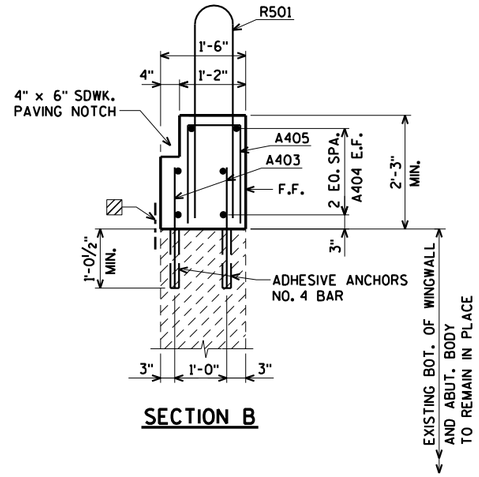


SECTION A



SECTION B

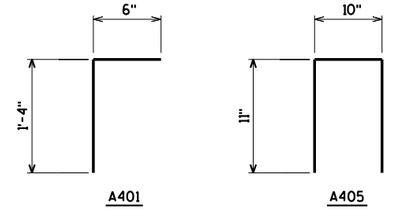
BILL OF BARS

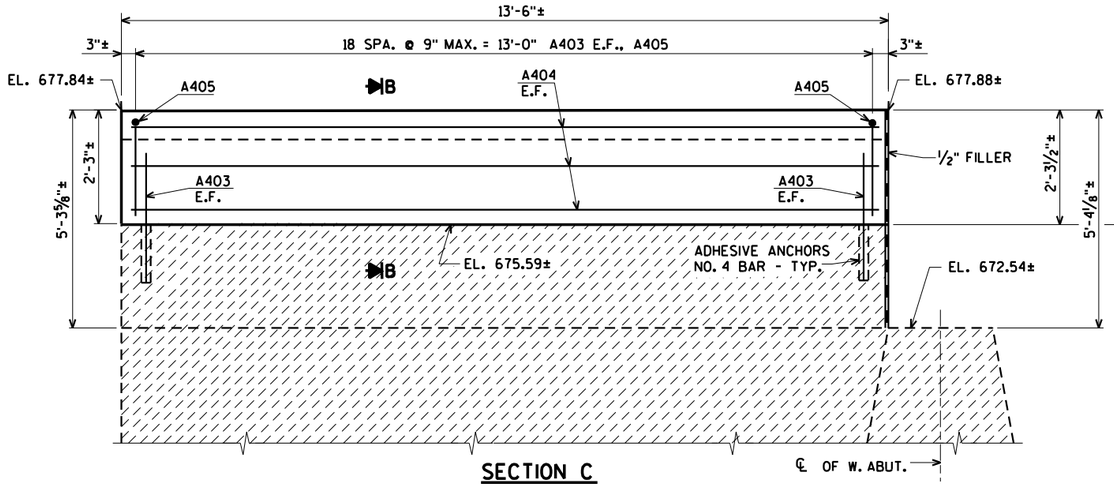
WEIGHT INCLUDES PARAPET STEEL SHOWN ON SHEET 13.

	BAR. NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR SERIES	1.050" COATED LOCATION
▲	A401	X	84	1-9	X		BODY DOWELS BTWN GIRDERS VERT.
	A402	X	14	5-2			BODY BTWN GIRDERS HORIZ.
▲	A403	X	76	2-7			TOP OF WING DOWELS
	A404	X	12	13-2			TOP OF WING HORIZ.
	A405	X	38	4-6	X		TOP OF WING VERT.

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

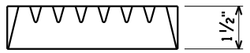
▲ ADHESIVE ANCHORS NO. 4 BAR





SECTION C

WING 1 SHOWN, WING 2 SIMILAR



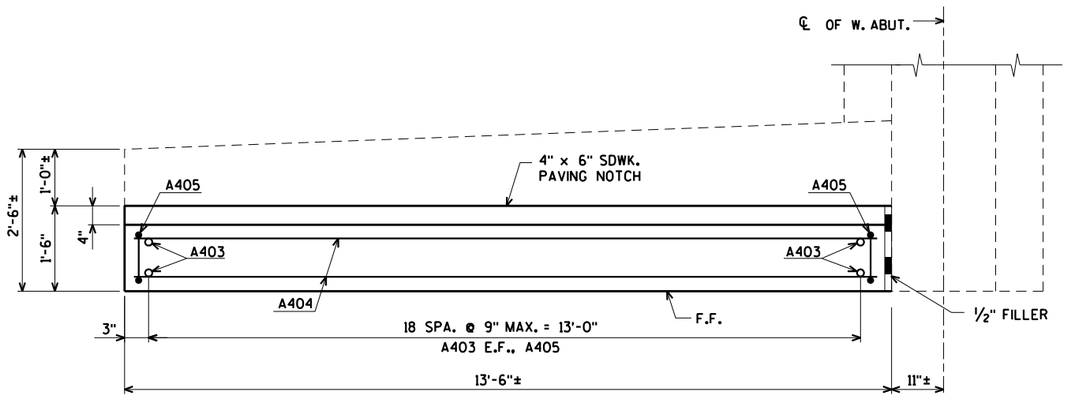
SECTION G-G

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 x 1-INCH SHEET METAL SCREWS.

RODENT SHIELD DETAIL



WING PLAN

WING 1 SHOWN, WING 2 SIMILAR

FOR LOCATION OF SECTIONS A, B, AND C SEE SHEET 3

⊗ STEEL TROWEL TOP SURFACE OF ABUTMENT NOTCHES. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING NEW BEARING PADS AND SUPERSTRUCTURE DIAPHRAGM CONCRETE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03".

⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE DETAIL ON THIS SHEET.

⊕ GRIND SMOOTH TOP OF ABUTMENT AFTER REMOVING DIAPHRAGM CONCRETE.

▨ 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE OF ABUTMENT.

F.F. DENOTES FRONT FACE

E.F. DENOTES EACH FACE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-36-29

DRAWN BY CLS | PLANS CK'D. CBM

WEST ABUTMENT DETAILS & BILL OF BARS

SHEET 4 OF 14
762

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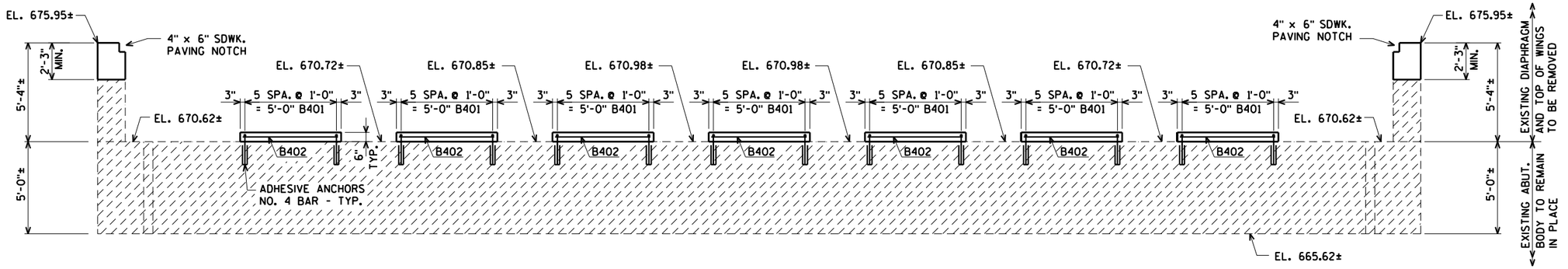
NOTE:
SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE.)

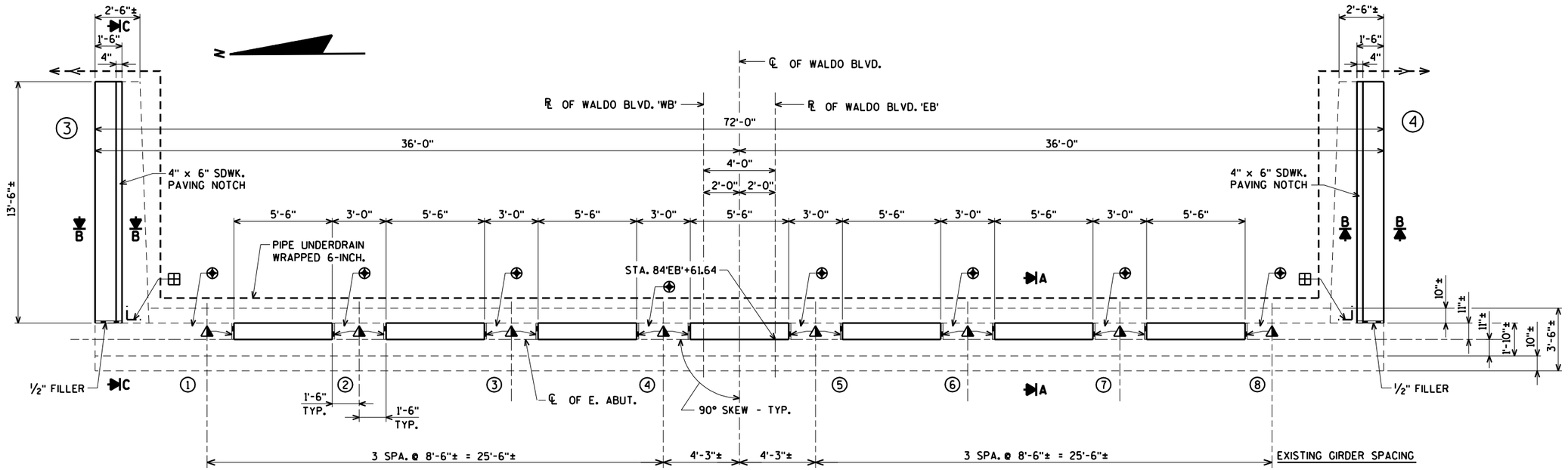
VERTICAL FACE PARAPET "A" NOT SHOWN. FOR DETAILS SEE SHEET 13

STATE PROJECT NUMBER

1500-37-71



ELEVATION
(LOOKING EAST)



PLAN

FOR SECTIONS A, B, AND C SEE SHEET 6

⊞ 18" RUBBERIZED MEMBRANE WATERPROOFING FROM BRIDGE SEAT TO TOP OF WING.

⊕ GRIND SMOOTH TOP OF ABUTMENT AFTER REMOVING DIAPHRAGM CONCRETE.

▲ ¾" CORK FILLER ON VERTICAL FACES THAT RUN PARALLEL WITH GIRDER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-36-29

DRAWN BY CLS | PLANS CK'D. CBM

EAST ABUTMENT

SHEET 5 OF 14
763

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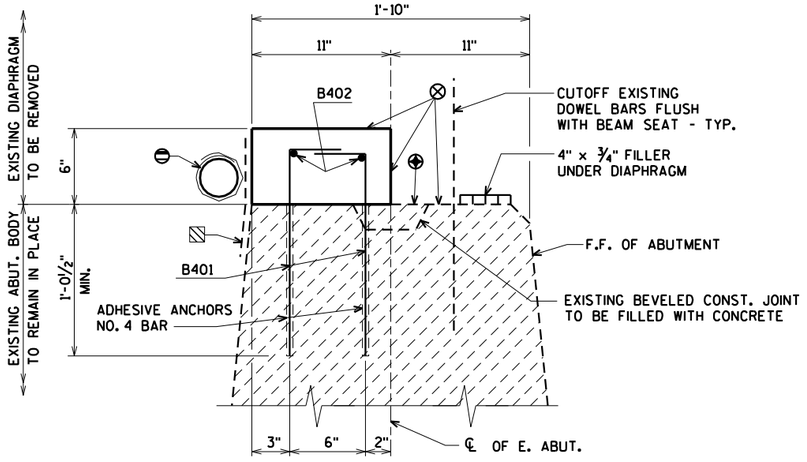
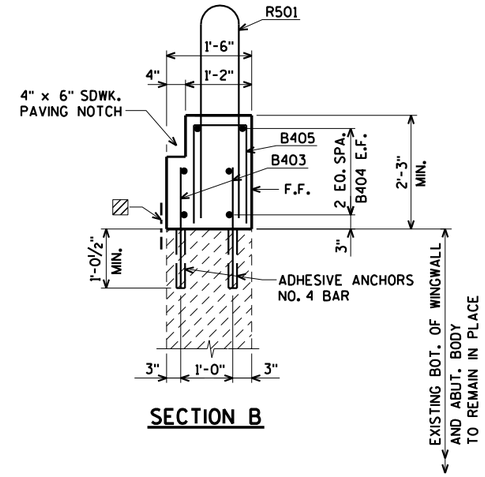
STATE PROJECT NUMBER

1500-37-71



SECTION A



SECTION B

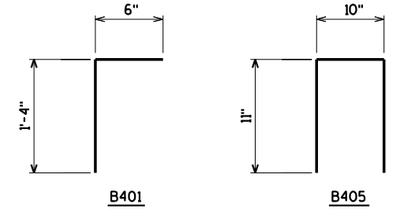
BILL OF BARS

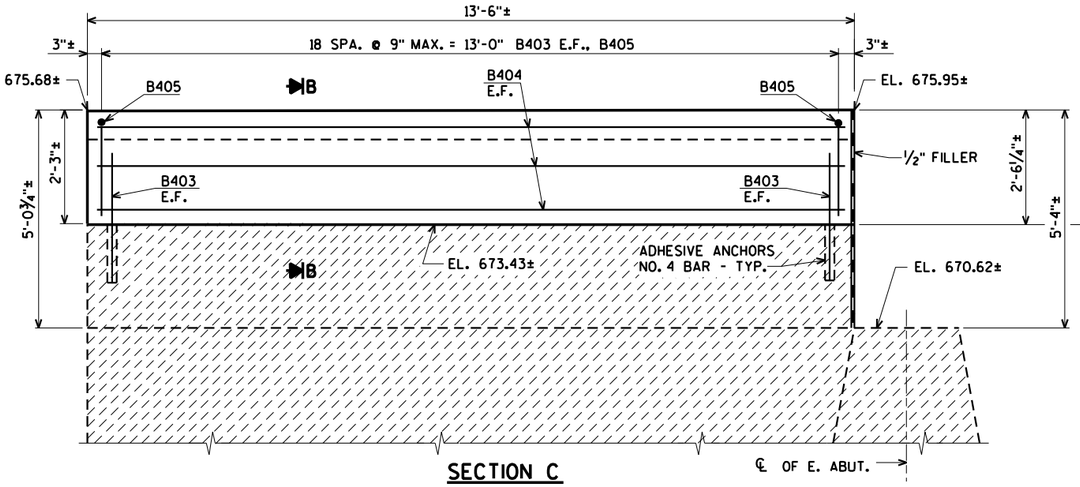
WEIGHT INCLUDES PARAPET STEEL SHOWN ON SHEET 13.

	BAR. NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR SERIES	1.050" COATED LOCATION
▲	B401	X	84	1-9	X		BODY DOWELS BTWN GIRDERS VERT.
	B402	X	14	5-2			BODY BTWN GIRDERS HORIZ.
▲	B403	X	76	2-7			TOP OF WING DOWELS
	B404	X	12	13-2			TOP OF WING HORIZ.
	B405	X	38	4-6	X		TOP OF WING VERT.

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

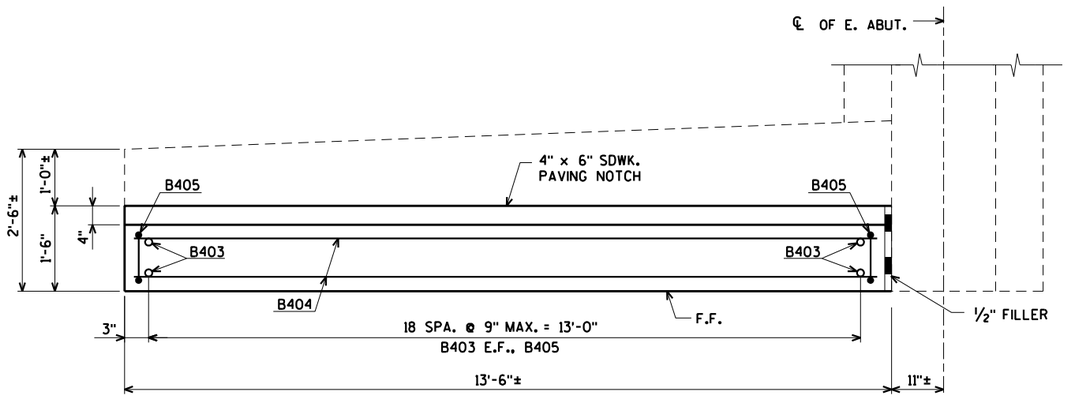
▲ ADHESIVE ANCHORS NO. 4 BAR





SECTION C

WING 3 SHOWN, WING 4 SIMILAR



WING PLAN

WING 3 SHOWN, WING 4 SIMILAR

FOR LOCATION OF SECTIONS A, B, AND C SEE SHEET 5

⊗ STEEL TROWEL TOP SURFACE OF ABUTMENT NOTCHES. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING NEW BEARING PADS AND SUPERSTRUCTURE DIAPHRAGM CONCRETE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03".

⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE DETAIL ON SHEET 4.

⊕ GRIND SMOOTH TOP OF ABUTMENT AFTER REMOVING DIAPHRAGM CONCRETE.

▨ 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE OF ABUTMENT.

F.F. DENOTES FRONT FACE

E.F. DENOTES EACH FACE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-36-29

DRAWN BY CLS | PLANS CK'D. CBM

EAST ABUTMENT DETAILS & BILL OF BARS

SHEET 6 OF 14
764

ORIGINAL PLANS PREPARED BY
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Eau Claire, WI 54701
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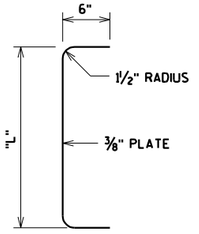
STATE PROJECT NUMBER

1500-37-71

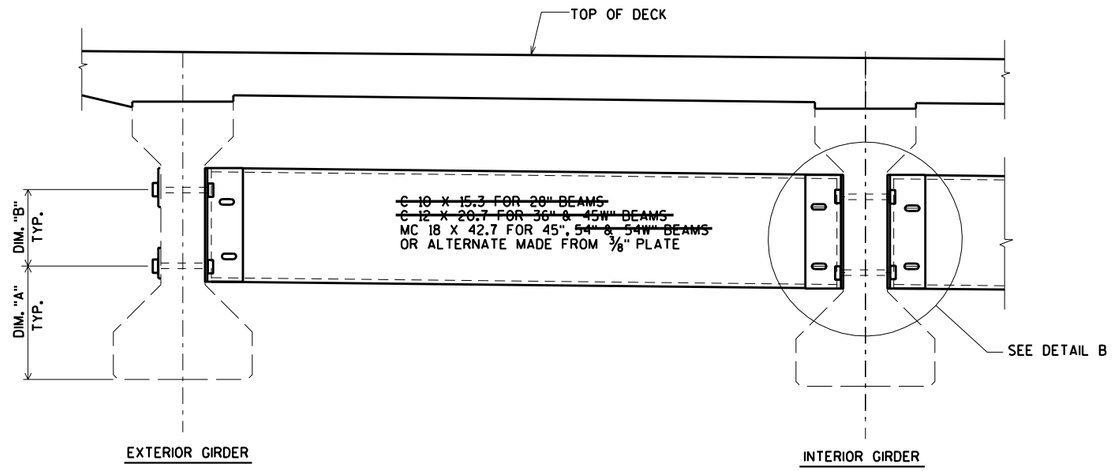
TABLE

GIRDER HEIGHT	DIM. "A"	DIM. "B"	DIM. "L"	* DIM. "X"
~~28"~~	~~1'-0⅞"~~	~~5⅞"~~	~~9½"~~	~~2¼"~~
~~36"~~	~~1'-2⅞"~~	~~9⅞"~~	~~1'-1½"~~	~~3¼"~~
45"	1'-5⅜"	1'-1 ⅞"	1'-5½"	2¼"
~~45W"~~	~~1'-9⅛"~~	~~8⅞"~~	~~1'-0½"~~	~~2¾"~~
~~54"~~	~~1'-7⅞"~~	~~1'-5⅞"~~	~~1'-9½"~~	~~4¼"~~
~~54W"~~	~~1'-9⅛"~~	~~1'-5⅞"~~	~~1'-9½"~~	~~4¼"~~



SECTION THRU ALTERNATE DIAPHRAGM

*DIM "X" = 2½" FOR ALTERNATE PLATE DIAPHRAGM



PART TRANSVERSE SECTION AT DIAPHRAGM

NOTES

ALL DIAPHRAGM MATERIAL AND CORED HOLES IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-36-29", EACH.

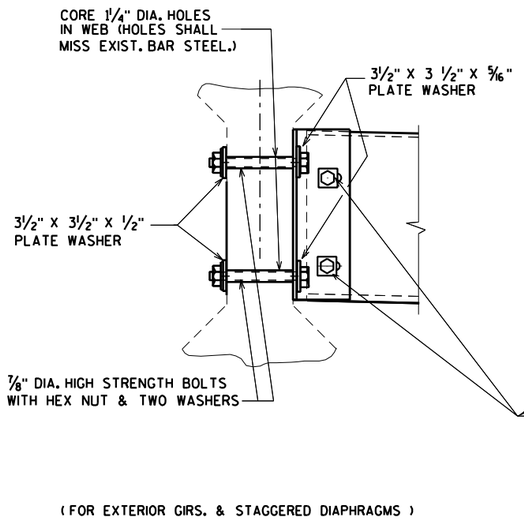
EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36.

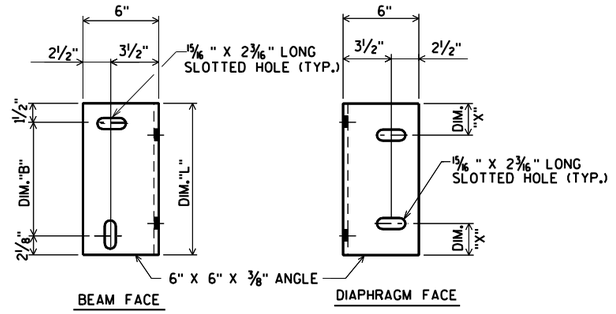
ALL DIAPHRAGM MATERIAL INCLUDING BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AFTER FABRICATION.

STEEL DIAPHRAGM TO CONCRETE WEB CONNECTION SHALL BE SNUG-TIGHT PLUS ¼ TURN, UNLESS NOTED OTHERWISE. HIGH STRENGTH BOLTS FOR WEB CONNECTION SHALL MEET THE REQUIREMENTS FOR ASTM A325 OR ASTM A449.

CORING HOLES IN EXISTING GIRDERS SHALL BE CONSIDERED INCIDENTAL TO "STEEL DIAPHRAGMS B-36-29".



DETAIL B



DIAPHRAGM SUPPORT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-36-29

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STEEL DIAPHRAGM DETAILS

SHEET 7 OF 14
765

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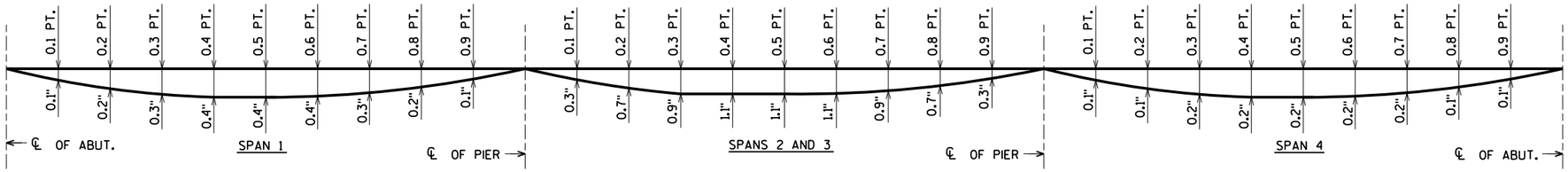


ESTIMATED BEAM DEAD LOAD DEFLECTION DIAGRAMS

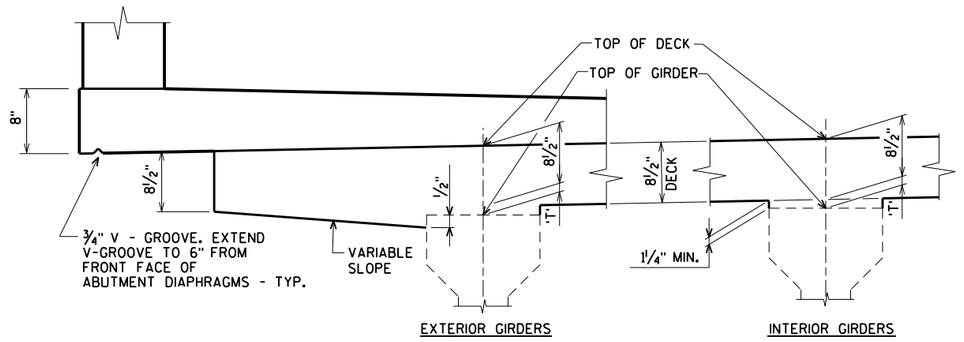
TOP OF DECK ELEVATIONS

SPAN 1											
	℄ OF WEST ABUT.	0.1 PT.	0.2 PT.	0.3 PT.	0.4 PT.	0.5 PT.	0.6 PT.	0.7 PT.	0.8 PT.	0.9 PT.	℄ OF PIER 1
NORTH EDGE OF DECK	677.17	677.18	677.19	677.19	677.19	677.19	677.18	677.17	677.16	677.15	677.13
GIRDER 1	677.24	677.25	677.26	677.26	677.27	677.26	677.26	677.25	677.23	677.22	677.20
EDGE OF SIDEWALK	677.28	677.29	677.30	677.30	677.30	677.30	677.29	677.28	677.27	677.25	677.23
GIRDER 2	677.41	677.42	677.43	677.43	677.44	677.43	677.43	677.42	677.40	677.39	677.37
GIRDER 3	677.58	677.59	677.60	677.60	677.61	677.60	677.60	677.59	677.57	677.56	677.54
GIRDER 4	677.75	677.76	677.77	677.77	677.78	677.77	677.77	677.76	677.74	677.73	677.71
RL of Waldo Boulevard 'WB'	677.81	677.81	677.82	677.82	677.82	677.82	677.81	677.80	677.79	677.77	677.76
℄ OF WALDO BOULEVARD	677.84	677.85	677.86	677.86	677.86	677.86	677.85	677.84	677.83	677.81	677.79
RL of Waldo Boulevard 'EB'	677.81	677.81	677.82	677.82	677.82	677.82	677.81	677.80	677.79	677.77	677.76
GIRDER 5	677.75	677.76	677.77	677.77	677.78	677.77	677.77	677.76	677.74	677.73	677.71
GIRDER 6	677.58	677.59	677.60	677.60	677.61	677.60	677.60	677.59	677.57	677.56	677.54
GIRDER 7	677.41	677.42	677.43	677.43	677.44	677.43	677.43	677.42	677.40	677.39	677.37
EDGE OF SIDEWALK	677.28	677.29	677.30	677.30	677.30	677.30	677.29	677.28	677.27	677.25	677.23
GIRDER 8	677.24	677.25	677.26	677.26	677.27	677.26	677.26	677.25	677.23	677.22	677.20
SOUTH EDGE OF DECK	677.17	677.18	677.19	677.19	677.19	677.19	677.18	677.17	677.16	677.15	677.13

SPAN 2											
	℄ OF PIER 1	0.1 PT.	0.2 PT.	0.3 PT.	0.4 PT.	0.5 PT.	0.6 PT.	0.7 PT.	0.8 PT.	0.9 PT.	℄ OF PIER 2
NORTH EDGE OF DECK	677.13	677.09	677.06	677.01	676.96	676.92	676.86	676.81	676.75	676.70	676.64
GIRDER 1	677.20	677.17	677.13	677.08	677.03	676.99	676.93	676.88	676.82	676.77	676.71
EDGE OF SIDEWALK	677.23	677.20	677.16	677.12	677.07	677.02	676.97	676.91	676.86	676.80	676.75
GIRDER 2	677.37	677.34	677.30	677.25	677.20	677.16	677.10	677.05	676.99	676.94	676.88
GIRDER 3	677.54	677.51	677.47	677.42	677.37	677.33	677.27	677.22	677.16	677.11	677.05
GIRDER 4	677.71	677.68	677.64	677.59	677.54	677.50	677.44	677.39	677.33	677.28	677.22
RL of Waldo Boulevard 'WB'	677.76	677.72	677.68	677.64	677.59	677.54	677.49	677.43	677.38	677.32	677.27
℄ OF WALDO BOULEVARD	677.79	677.76	677.72	677.68	677.63	677.58	677.53	677.47	677.42	677.36	677.31
RL of Waldo Boulevard 'EB'	677.76	677.72	677.68	677.64	677.59	677.54	677.49	677.43	677.38	677.32	677.27
GIRDER 5	677.71	677.68	677.64	677.59	677.54	677.50	677.44	677.39	677.33	677.28	677.22
GIRDER 6	677.54	677.51	677.47	677.42	677.37	677.33	677.27	677.22	677.16	677.11	677.05
GIRDER 7	677.37	677.34	677.30	677.25	677.20	677.16	677.10	677.05	676.99	676.94	676.88
EDGE OF SIDEWALK	677.23	677.20	677.16	677.12	677.07	677.02	676.97	676.91	676.86	676.80	676.75
GIRDER 8	677.20	677.17	677.13	677.08	677.03	676.99	676.93	676.88	676.82	676.77	676.71
SOUTH EDGE OF DECK	677.13	677.09	677.06	677.01	676.96	676.92	676.86	676.81	676.75	676.70	676.64

SPAN 3											
	℄ OF PIER 2	0.1 PT.	0.2 PT.	0.3 PT.	0.4 PT.	0.5 PT.	0.6 PT.	0.7 PT.	0.8 PT.	0.9 PT.	℄ OF PIER 3
NORTH EDGE OF DECK	676.64	676.59	676.53	676.48	676.42	676.37	676.31	676.25	676.18	676.10	676.02
GIRDER 1	676.71	676.66	676.60	676.55	676.49	676.44	676.38	676.32	676.25	676.17	676.09
EDGE OF SIDEWALK	676.75	676.69	676.64	676.58	676.53	676.47	676.42	676.36	676.29	676.21	676.13
GIRDER 2	676.88	676.83	676.77	676.72	676.66	676.61	676.55	676.49	676.42	676.34	676.26
GIRDER 3	677.05	677.00	676.94	676.89	676.83	676.78	676.72	676.66	676.59	676.51	676.43
GIRDER 4	677.22	677.17	677.11	677.06	677.00	676.95	676.89	676.83	676.76	676.68	676.60
RL of Waldo Boulevard 'WB'	677.27	677.21	677.16	677.10	677.05	676.99	676.94	676.88	676.81	676.73	676.65
℄ OF WALDO BOULEVARD	677.31	677.25	677.20	677.14	677.09	677.03	676.98	676.92	676.85	676.77	676.69
RL of Waldo Boulevard 'EB'	677.27	677.21	677.16	677.10	677.05	676.99	676.94	676.88	676.81	676.73	676.65
GIRDER 5	677.22	677.17	677.11	677.06	677.00	676.95	676.89	676.83	676.76	676.68	676.60
GIRDER 6	677.05	677.00	676.94	676.89	676.83	676.78	676.72	676.66	676.59	676.51	676.43
GIRDER 7	676.88	676.83	676.77	676.72	676.66	676.61	676.55	676.49	676.42	676.34	676.26
EDGE OF SIDEWALK	676.75	676.69	676.64	676.58	676.53	676.47	676.42	676.36	676.29	676.21	676.13
GIRDER 8	676.71	676.66	676.60	676.55	676.49	676.44	676.38	676.32	676.25	676.17	676.09
SOUTH EDGE OF DECK	676.64	676.59	676.53	676.48	676.42	676.37	676.31	676.25	676.18	676.10	676.02

SPAN 4											
	℄ OF PIER 3	0.1 PT.	0.2 PT.	0.3 PT.	0.4 PT.	0.5 PT.	0.6 PT.	0.7 PT.	0.8 PT.	0.9 PT.	℄ OF EAST ABUT.
NORTH EDGE OF DECK	676.02	675.96	675.89	675.82	675.75	675.68	675.60	675.52	675.43	675.34	675.25
GIRDER 1	676.09	676.03	675.96	675.90	675.83	675.75	675.67	675.59	675.50	675.42	675.32
EDGE OF SIDEWALK	676.13	676.06	676.00	675.93	675.86	675.79	675.71	675.62	675.54	675.45	675.36
GIRDER 2	676.26	676.20	676.13	676.07	676.00	675.92	675.84	675.76	675.67	675.59	675.49
GIRDER 3	676.43	676.37	676.30	676.24	676.17	676.09	676.01	675.93	675.84	675.76	675.66
GIRDER 4	676.60	676.54	676.47	676.41	676.34	676.26	676.18	676.10	676.01	675.93	675.83
RL of Waldo Boulevard 'WB'	676.65	676.58	676.52	676.45	676.38	676.31	676.23	676.14	676.06	675.97	675.88
℄ OF WALDO BOULEVARD	676.69	676.62	676.56	676.49	676.42	676.35	676.27	676.18	676.10	676.01	675.92
RL of Waldo Boulevard 'EB'	676.65	676.58	676.52	676.45	676.38	676.31	676.23	676.14	676.06	675.97	675.88
GIRDER 5	676.60	676.54	676.47	676.41	676.34	676.26	676.18	676.10	676.01	675.93	675.83
GIRDER 6	676.43	676.37	676.30	676.24	676.17	676.09	676.01	675.93	675.84	675.76	675.66
GIRDER 7	676.26	676.20	676.13	676.07	676.00	675.92	675.84	675.76	675.67	675.59	675.49
EDGE OF SIDEWALK	676.13	676.06	676.00	675.93	675.86	675.79	675.71	675.62	675.54	675.45	675.36
GIRDER 8	676.09	676.03	675.96	675.90	675.83	675.75	675.67	675.59	675.50	675.42	675.32
SOUTH EDGE OF DECK	676.02	675.96	675.89	675.82	675.75	675.68	675.60	675.52	675.43	675.34	675.25



DECK HAUNCH DETAILS

TO DETERMINE 'T': AFTER ALL DECK IS REMOVED. ELEVATIONS OF THE TOP FLANGES SHALL BE TAKEN AT CENTERLINE OF SUBSTRUCTURE AND AT TENTH POINTS OF EACH SPAN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEVATION AT FINAL GRADE
- TOP OF GIRDER ELEVATION AFTER DECK REMOVAL
+ DEAD LOAD DEFLECTION
- SLAB THICKNESS (8½")

= HAUNCH THICKNESS 'T'

IF 1¼" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR. THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½".

NOTE: AN AVERAGE HAUNCH ('T') OF 4" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-36-29

DRAWN BY CLS | PLANS CK'D. CBM

DECK ELEVATIONS

SHEET 8 OF 14
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4/13/2018
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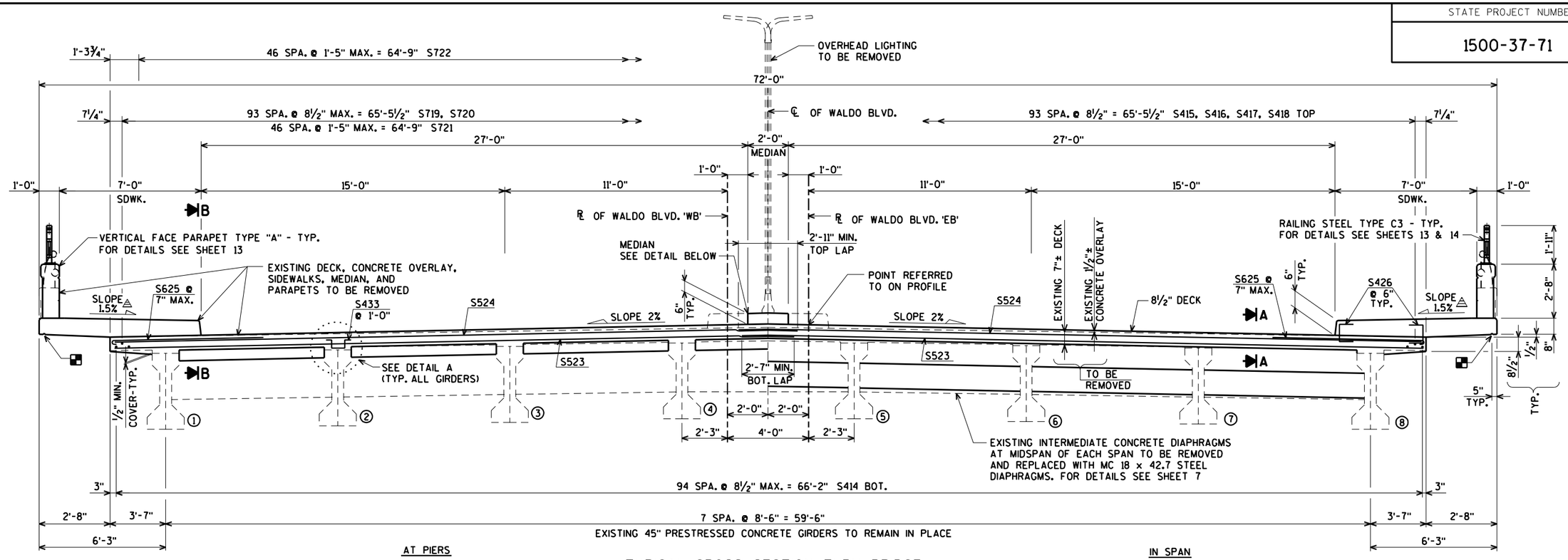
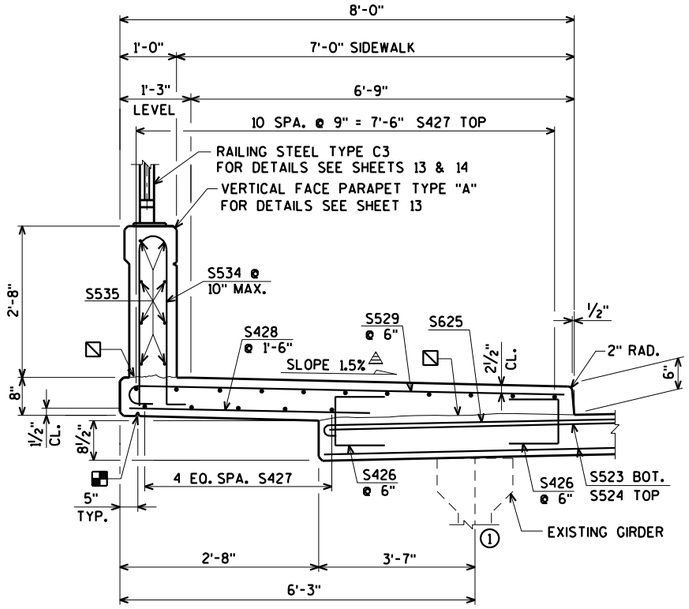


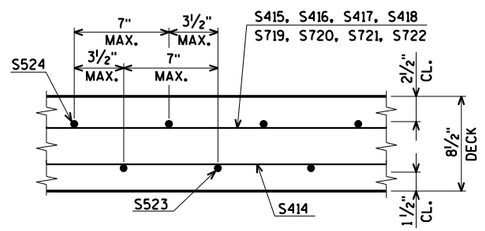
TYPICAL CROSS SECTION THRU BRIDGE

(LOOKING EAST)

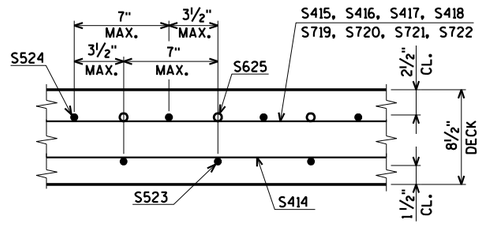


SECTION THRU SIDEWALK

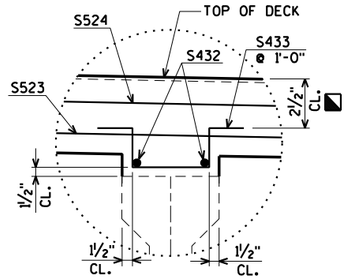
(LOOKING EAST)



SECTION A

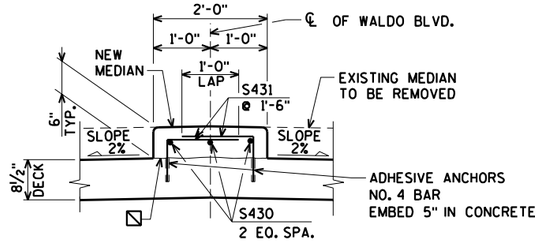


SECTION B



DETAIL A

TILT S433 BARS AS REQ'D. TO MAINTAIN 2½" CLEAR



MEDIAN DETAIL

△ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

▪ ¾" V - GROOVE. EXTEND V - GROOVE TO 6" FROM FRONT FACE OF ABUTMENT DIAPHRAGMS - TYP.

▨ CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH. FOR DECK POUR, MATCH BRIDGE X-SLOPE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-36-29

DRAWN BY CLS | PLANS CK'D. CBM

SUPERSTRUCTURE

SHEET 9 OF 14
767

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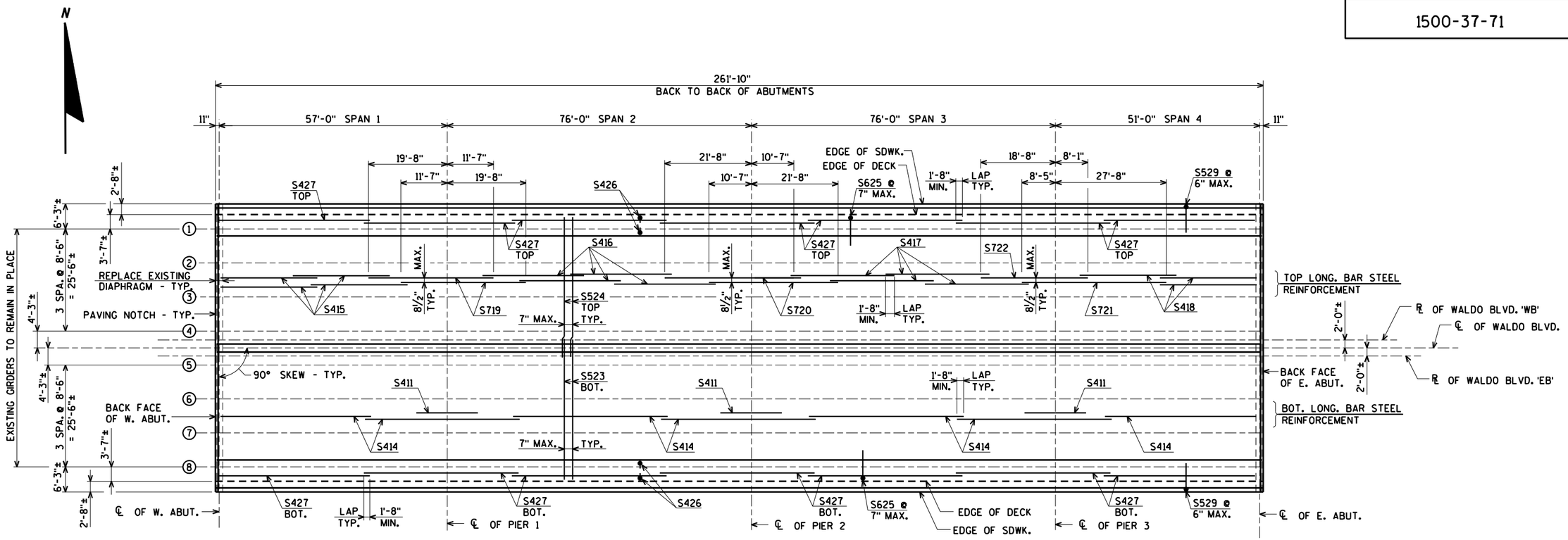
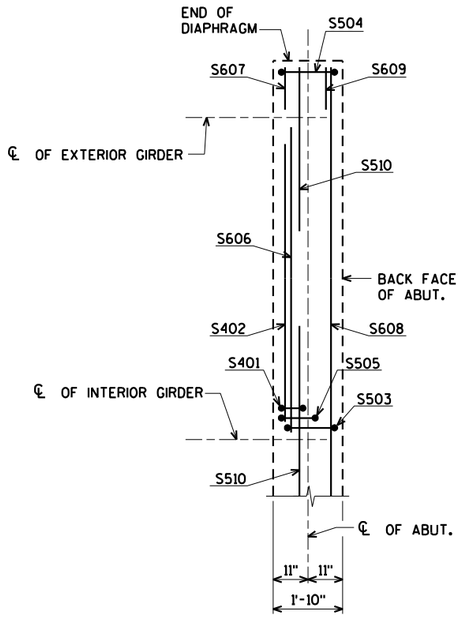
STATE PROJECT NUMBER

1500-37-71

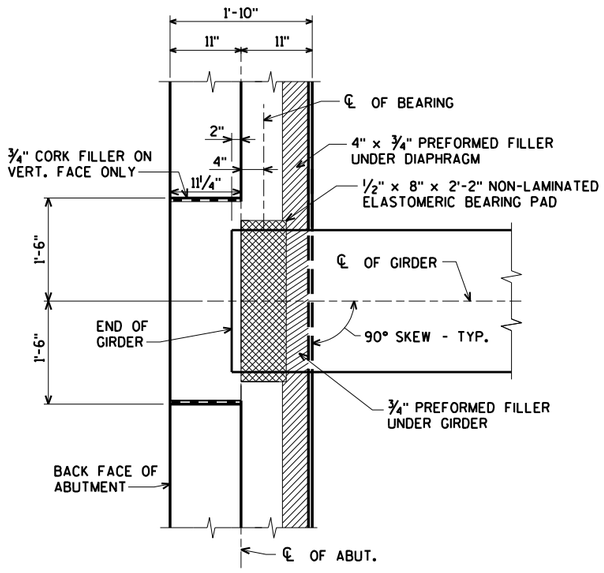


PLAN

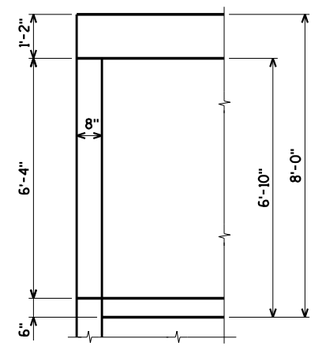


BAR STEEL AT DIAPHRAGM

(EAST ABUTMENT SHOW, WEST ABUTMENT SIMILAR)



ABUTMENT BEARING PAD DETAIL



PAVING NOTCH DETAIL

(TYPICAL ALL 4 CORNERS)
(WING 2 CORNER SHOWN, OTHER CORNERS SIMILAR)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-36-29

DRAWN BY CLS | PLANS CK'D. CBM

SUPERSTRUCTURE PLAN

SHEET 10 OF 14
768

ORIGINAL PLANS PREPARED BY
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4/13/2018

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STATE PROJECT NUMBER

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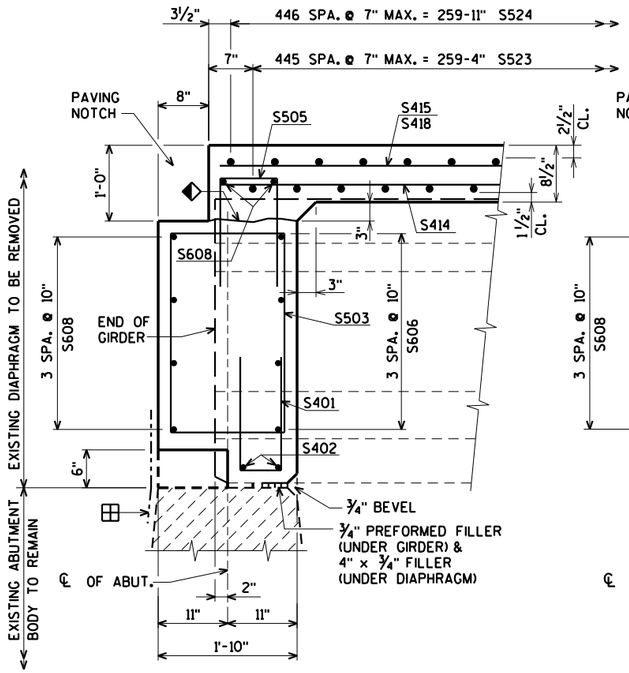
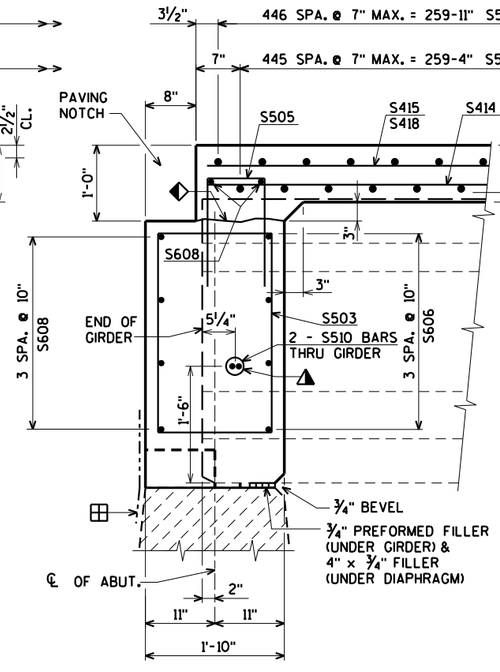
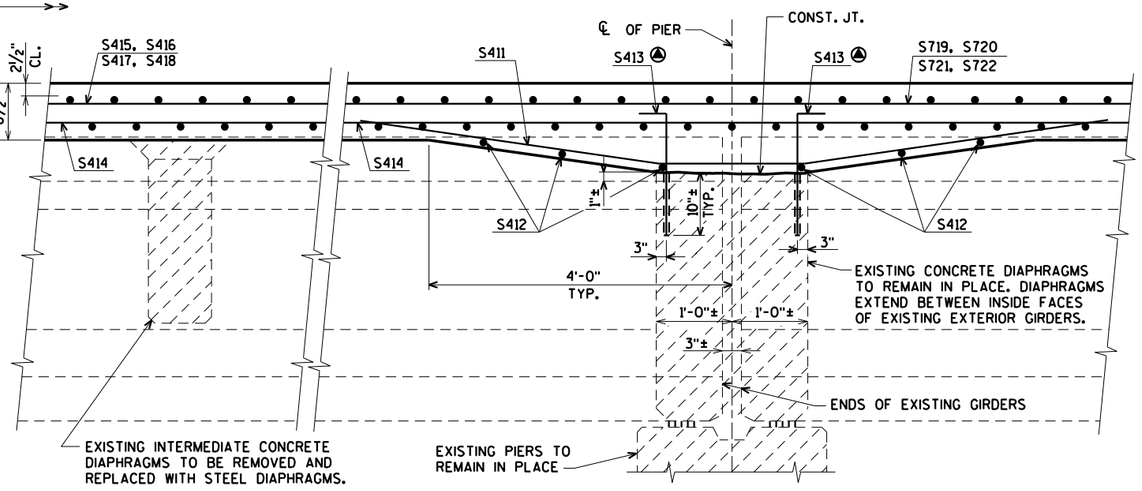


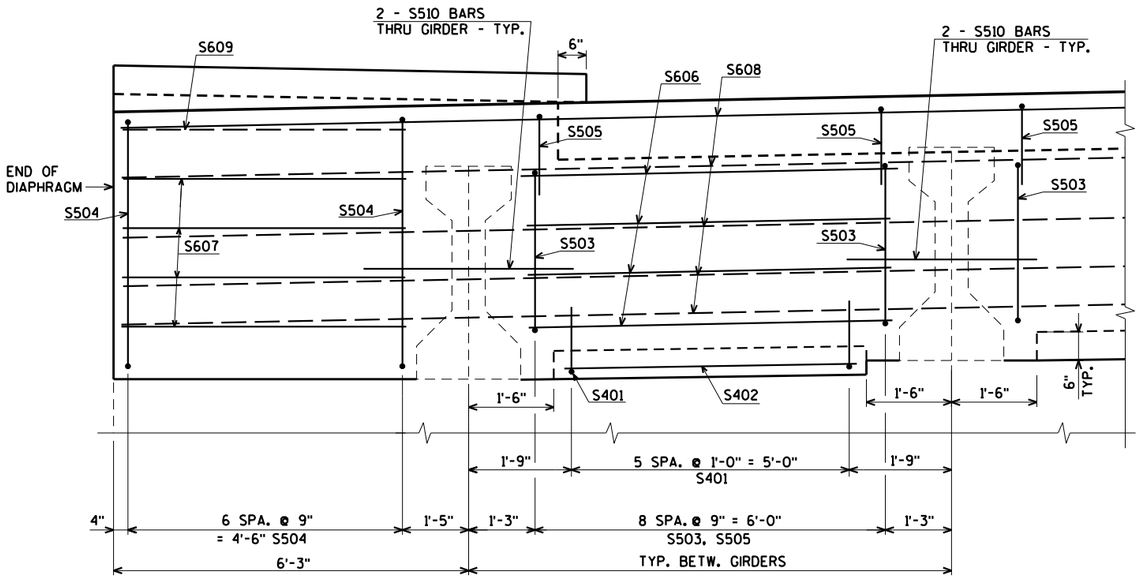
PART LONGITUDINAL SECTION AT ABUTMENT
(TYP. BETWEEN GIRDERS)



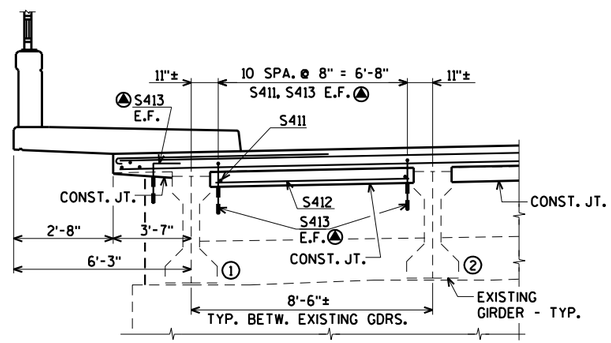
PART LONGITUDINAL SECTION AT ABUTMENT
(TYP. AT GIRDERS)



PART LONGITUDINAL SECTION ℄ DIAPH. & PIERS



PART ELEVATION AT ABUTMENT



TYPICAL SECTION AT EXISTING PIERS
(NORTH SIDE SHOWN, SOUTH SIDE SIMILAR)

◆ OPTIONAL CONSTRUCTION JOINT. IF USED, DECK POUR MUST BE WITHIN 2 WEEKS FROM THE TIME OF THE DIAPHRAGM POUR.

▲ FIELD DRILL 1½ ϕ HOLE IN WEB OF EXISTING GIRDERS FOR 2 S510 BARS. FIELD DRILLING INCLUDED IN BID ITEM "CONCRETE MASONRY BRIDGES".

⊞ 18" RUBBERIZED MEMBRANE WATERPROOFING

ⓐ ADHESIVE ANCHORS NO. 4 BAR

E.F. DENOTES EACH FACE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-36-29

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SUPERSTRUCTURE DETAILS

SHEET 11 OF 14
769

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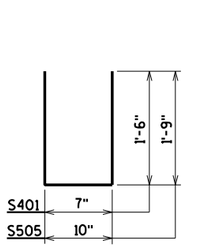

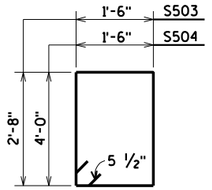

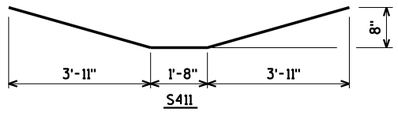

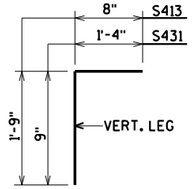

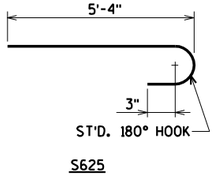

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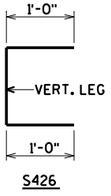

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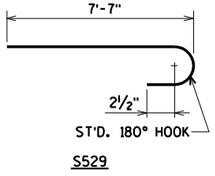

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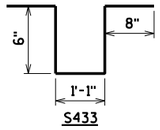

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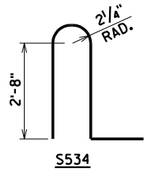

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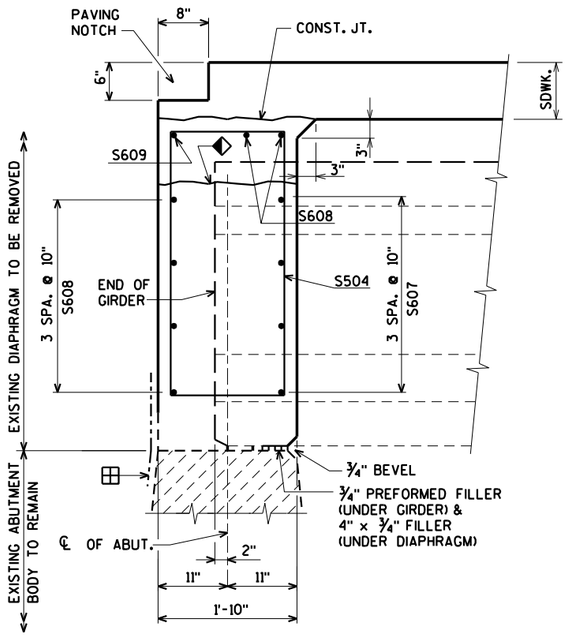

PART LONGITUDINAL SECTION AT ABUTMENT
(TYP. AT ENDS OF DIAPHRAGM UNDER SIDEWALK)

◆ OPTIONAL CONSTRUCTION JOINT. IF USED, DECK POUR MUST BE WITHIN 2 WEEKS FROM THE TIME OF THE DIAPHRAGM POUR.

⊞ 18" RUBBERIZED MEMBRANE WATERPROOFING

BILL OF BARS

BAR. NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR	SERIES	163,100* COATED LOCATION
S401	X	84	3-5	X			DIAPH. @ ABUT. VERT. @ NOTCH
S402	X	28	5-2				DIAPH. @ ABUT. HORIZ. @ NOTCH
S503	X	126	9-0	X			DIAPH. @ ABUT. VERT. BETWEEN GIRDERS
S504	X	28	11-8	X			DIAPH. @ ABUT. VERT. EXTERIOR GIRDER
S505	X	126	4-2	X			DIAPH. @ ABUT. VERT. BETWEEN GIRDERS
S606	X	56	6-4				DIAPH. @ ABUT. HORIZ. BETW. GDRS.
S607	X	16	5-0				DIAPH. @ ABUT. HORIZ. @ EXT. GDRS.
S608	X	24	36-10				DIAPH. @ ABUT. HORIZ.
S609	X	4	5-3				DIAPH. @ ABUT. HORIZ. EXTERIOR GIRDER
S510	X	32	6-0				DIAPH. @ ABUT. HORIZ. THRU GDRS.
S411	X	231	9-6	X			EXISTING DIAPH. @ PIER LONG.
S412	X	126	6-10				EXISTING DIAPH. @ PIER TRANS.
▲ S413	X	474	2-4	X			EXISTING DIAPH. @ EXISTING PIERS VERT.
S414	X	665	38-8				DECK LONG. BOT.
S415	X	188	24-4				DECK LONG. TOP SPAN 1
S416	X	188	25-5				DECK LONG. TOP SPAN 2
S417	X	188	25-11				DECK LONG. TOP SPAN 3
S418	X	141	23-5				DECK LONG. TOP SPAN 4
S719	X	94	31-3				DECK LONG. TOP @ PIER 1
S720	X	94	32-3				DECK LONG. TOP @ PIER 2
S721	X	47	36-1				DECK LONG. TOP @ PIER 3
S722	X	47	26-9				DECK LONG. TOP @ PIER 3
S523	X	892	34-5				DECK TRANS. BOT.
S524	X	894	34-8				DECK TRANS. TOP
S625	X	892	6-0	X			DECK TRANS. TOP @ OVERHANG
S426	X	2084	2-6	X			SDWK. VERT. @ DECK
S427	X	224	38-8				SDWK. LONG. TOP & BOT.
S428	X	348	3-6				SDWK. TRANS. BOT.
S529	X	1042	8-3	X			SDWK. TRANS. TOP
S430	X	21	38-8				MEDIAN LONG. TOP
▲ S431	X	348	2-0	X			MEDIAN VERT.
S432	X	112	38-8				DECK LONG. BOT. @ HAUNCHES
S433	X	2072	3-1	X			DECK @ GIRDER HAUNCHES
S534	X	626	6-9	X			PARAPET VERT. @ SDWK.
S535	X	112	39-7				PARAPET HORIZ. @ SDWK.

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

▲ ADHESIVE ANCHORS NO. 4 BAR

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-36-29

DRAWN BY CLS | PLANS CK'D. CBM

SUPERSTRUCTURE BILL OF BARS

SHEET 12 OF 14
770

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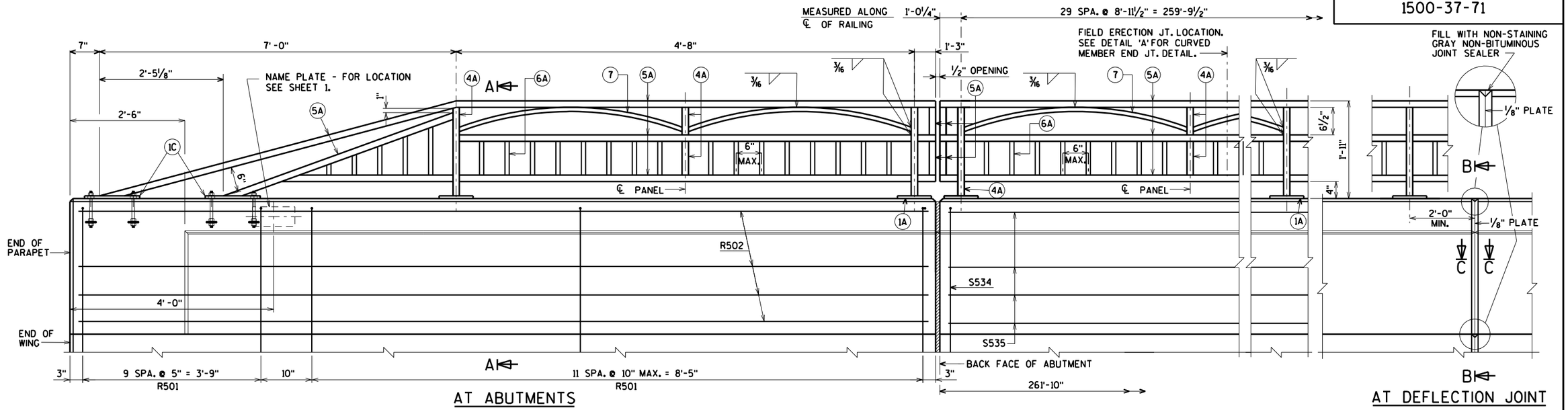
4/13/2018

PENTABLE:BReau_shd_util.tbl

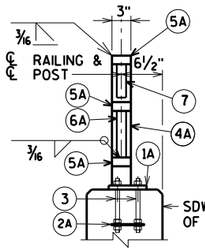
STATE PROJECT NUMBER

1500-37-71

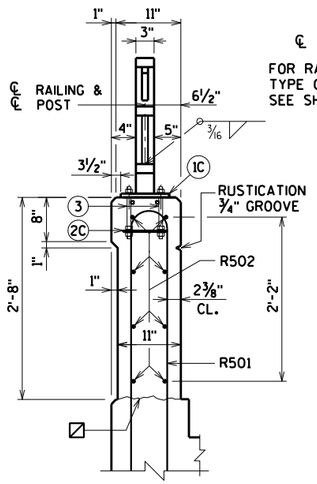


ELEVATION OF BACK FACE PARAPET AT SUPERSTRUCTURE AND WINGS

(WINGS 1 & 3 SHOWN, WINGS 2 & 4 SIMILAR)

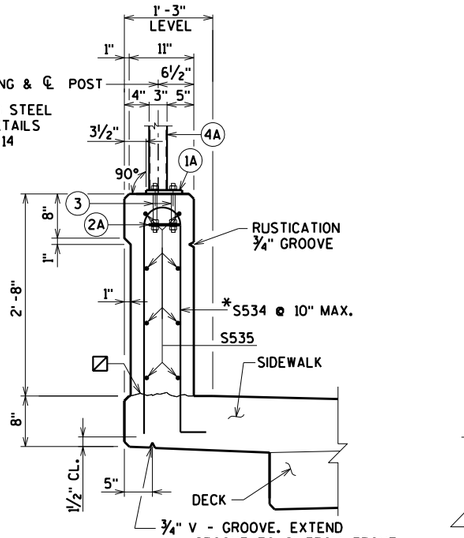


END VIEW



SECTION A-A

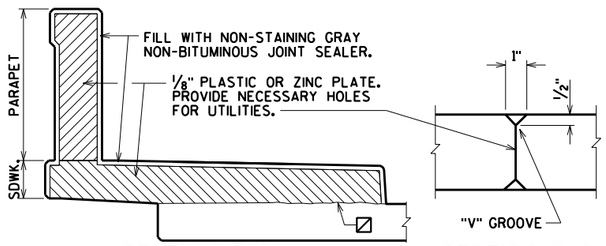
☑ CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH.



¾" V - GROOVE. EXTEND V - GROOVE TO 6" FROM FRONT FACE OF ABUTMENT DIAPHRAGMS - TYP.

SECTION THRU PARAPET ON BRIDGE

*ADJUST LOCATIONS OF BARS TO ALLOW PLACEMENT OF ANCHOR ASSEMBLY FOR RAILING

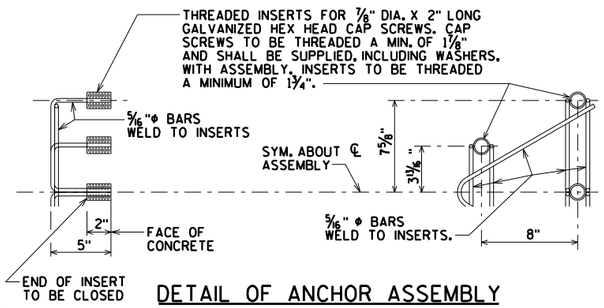


SECTION B-B

SECTION C-C

(SHOWING DEFLECTION JOINT IN PARAPET AND SIDEWALK.)

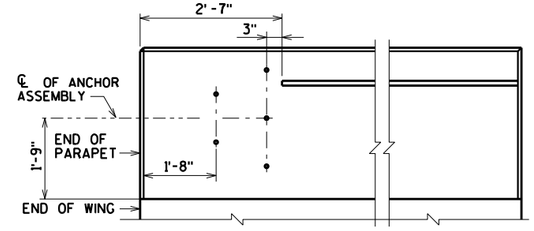
WHEN PARAPETS ARE POURED CONTINUOUSLY FROM END TO END, THEY SHALL BE SEPARATED AT THE DEFLECTION JOINTS BY A PIECE OF ⅛" ZINC OR PLASTIC PLATE CUT AS SHOWN IN SECTION B-B BY SHADED AREA. IF CONSTRUCTION JOINTS IN PARAPETS ARE USED AT THE DEFLECTION JOINTS, ONE SIDE OF JOINT SHALL BE COATED WITH AN APPROVED LIQUID BOND BREAKER AND PLATE SEPARATORS MAY BE OMITTED.



DETAIL OF ANCHOR ASSEMBLY

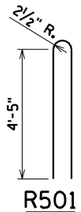
NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

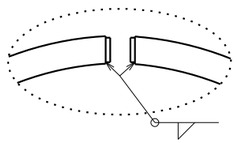


FRONT FACE OF PARAPET

(WINGS 2 & 4 SHOWN, WINGS 1 & 3 SIMILAR)



R501



DETAIL A

SEAL ENDS ON CURVED STRUCTURAL TUBING WITH ¼" PLATE. WELD AND GRIND SMOOTH.

BILL OF BARS

550* COATED (WEST ABUTMENT)
550* COATED (EAST ABUTMENT)

BAR MARK	COAT	WEST ABUT.	EAST ABUT.	LENGTH	BENT	LOCATION
R501	X	44	44	9-6	X	PARAPET VERT.
R502	X	8	8	13-2		PARAPET HORIZ.

BENDING DIMENSIONS ARE OUT TO OUT OF BARS

WORK THIS WHEET WITH SHEET 14.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-36-29

DRAWN BY CLS | PLANS CK'D. CBM

RAILING STEEL TYPE C3 AND VERTICAL FACE PARAPET "A" DETAILS

SHEET 13 OF 14
771

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6/22/2018

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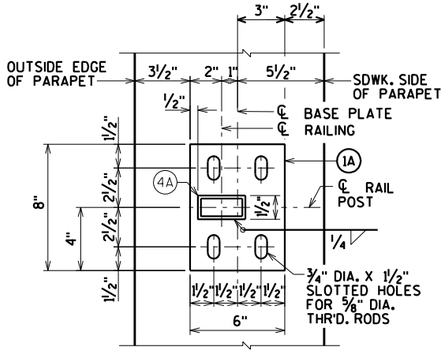
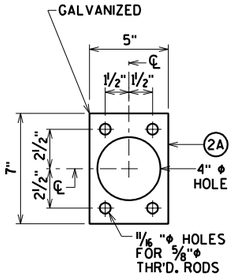


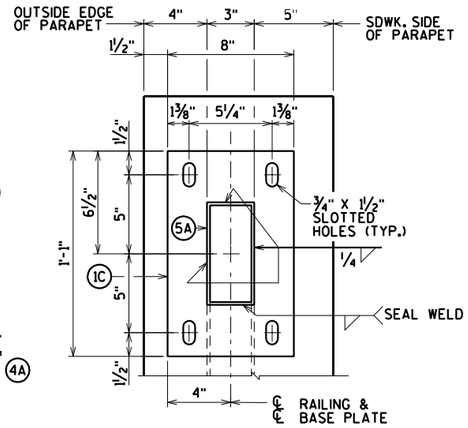
TYPICAL RAIL POST BASE PLATE

FOR 3"x1½"x3⁄16" POSTS (4A)

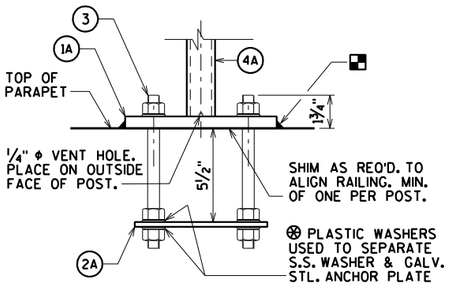


ANCHOR PLATE

FOR 3"x1½"x3⁄16" POSTS (4A)

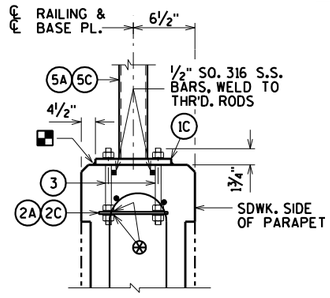


END RAIL BASE PLATE



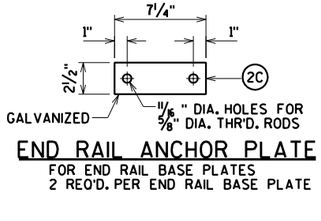
ANCHORAGE FOR RAIL POSTS

NOTE: ANCHOR PLATE NOT REQUIRED WHEN ADHESIVE ANCHORS ARE USED.



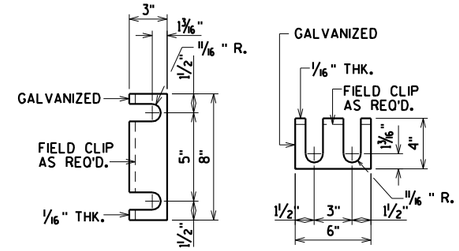
ANCHORAGE FOR END RAIL

NOTE: ANCHOR PLATES NOT REQ'D. WHEN ADHESIVE ANCHORS ARE USED.



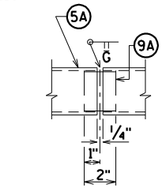
END RAIL ANCHOR PLATE

FOR END RAIL BASE PLATES
2 REQ'D. PER END RAIL BASE PLATE



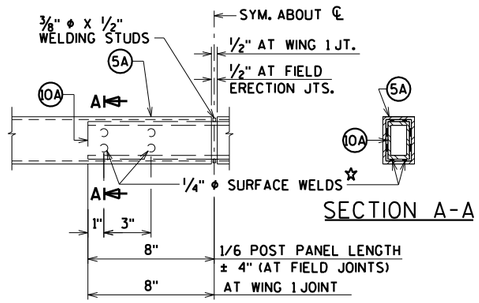
RAIL POST SHIM DETAIL

(2 SETS PER POST)



SHOP RAIL SPLICE DETAIL

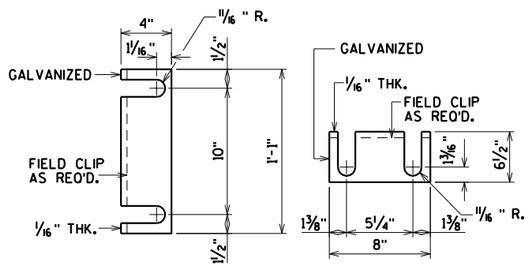
(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



SECTION A-A

FIELD ERECTION JOINT DETAIL

☆ MIN. ⅝" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.



END RAIL SHIM DETAIL

(2 SETS PER POST)

LEGEND

(1A) PLATE ⅝" X 6" X 8" WITH ¾" X 1½" SLOTTED HOLES.

(1C) PLATE ⅝" X 8" X 1'-1" WITH ¾" X 1½" SLOTTED HOLES.

(2A) ¼" X 5" X 7" ANCHOR PLATE WITH 11⁄16 " DIA. HOLES FOR THR'D. RODS NO. 3.

(2C) ¼" X 2½" X 7¼" ANCHOR PLATE WITH 11⁄16 " DIA. HOLES FOR THR'D. RODS NO. 3.

(3) ⅝" DIA. X 9" LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. ALTERNATIVE ANCHORAGE: CONCRETE ADHESIVE ANCHORS ⅝-INCH. EMBED 7" IN CONCRETE FOR RAIL POSTS. EMBED 5" IN CONCRETE FOR END RAILS. ADHESIVE ANCHORS SHALL CONFORM TO SECTION 502.2.12 OF THE STANDARD SPECIFICATIONS.

(4A) STRUCTURAL TUBING 3" X 1½" X 3⁄16". PLACE VERTICAL. WELD TO NO. 1 & 5.

(5A) STRUCTURAL TUBING 3" X 1½" X 3⁄16" RAILS. WELD TO NO. 1 & NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION & EXPANSION JOINTS.

(6A) BAR 1" X 1" PICKETS. WELD TO NO. 5. (SPACE AT 6" MAX. ℄ TO ℄ SPACING). PLACE VERTICAL.

(7) BAR 1" X 1". BEND TO REQUIRED RADIUS. WELD TO NO. 4 & 5.

(9A) RECTANGULAR SLEEVE FABRICATED FROM 3⁄16" PLATES. PROVIDE "SLIDING FIT".

(10A) RECTANGULAR SLEEVE FABRICATED FROM 3⁄16" PLATES. (1'-4" @ FIELD ERECTION JTS.) (1'-4" @ WING 1 JT.)

NOTES

BID ITEM SHALL BE "RAILING STEEL TYPE C3", WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ALL PLATES, BARS, AND RECTANGULAR SLEEVES SHALL CONFORM TO ASTM A709 GRADE 36. ALL STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

▀ CAULK AROUND PERIMETER OF BASE PLATES, NO. 1, AND FILL BOLT SLOT OPENINGS IN SHIMS AND BASE PLATES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

ALL JOINTS AND RECESSES IN CONCRETE PARAPET ARE TO BE VERTICAL.

ALL MATERIAL (EXCEPT NO. 3) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE CONTRACT DOCUMENTS. THE RAILING SHALL BE PAINTED FEDERAL COLOR NO. 27038, BLACK.

VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.

WORK THIS SHEET WITH SHEET 13.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-36-29

DRAWN BY CLS | PLANS CK'D. CBM

RAILING STEEL TYPE C3 DETAILS

SHEET 14 OF 14
772

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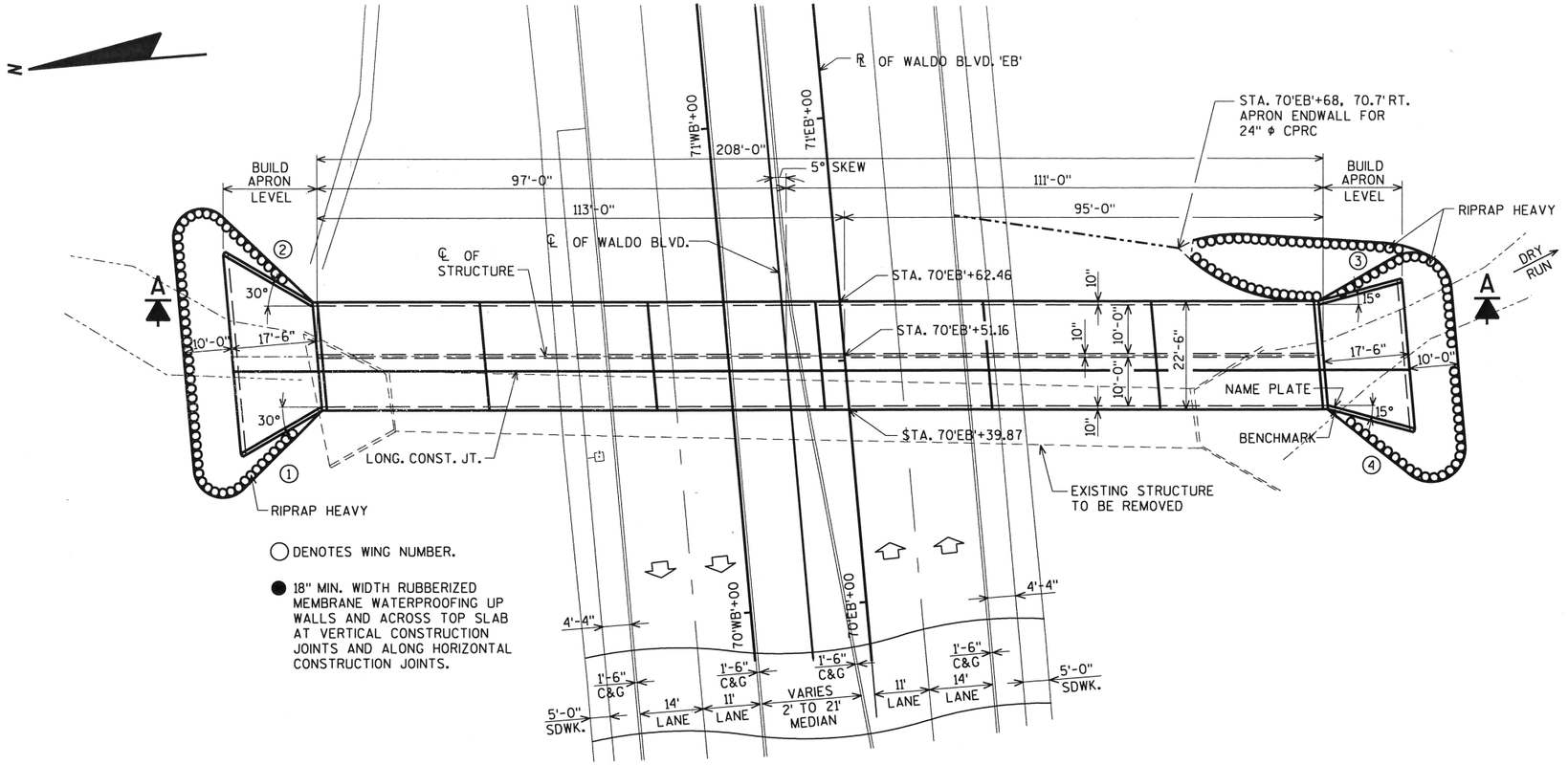
U:±41-0629.00 - Manitowoc County, Waldo Blvd±CN Overpass±BRIDGE±410629 para A.DGN

$PRFNAME$
U:\41-0629.00 - Manitowoc County, Waldo Blvd\Box Culvert\BRIDGE\Final\410629 gp culv.dgn

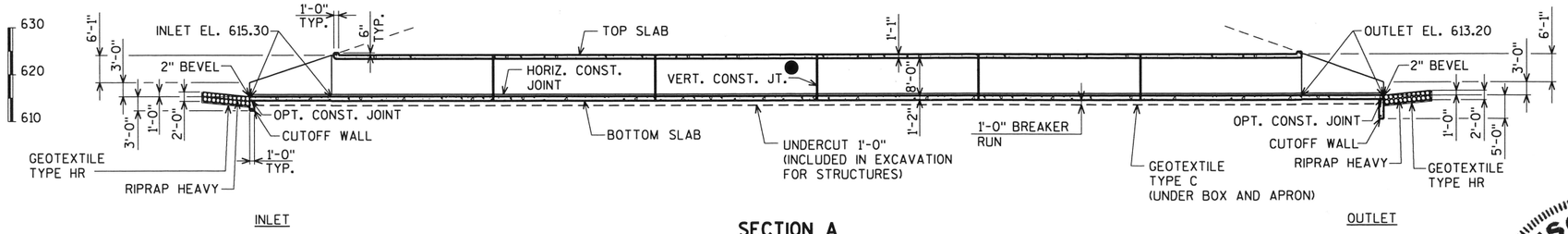
STATE PROJECT NUMBER

1500-37-71



PLAN

(TWIN CELL CONCRETE BOX CULVERT)



INLET

SECTION A

OUTLET

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: 1.05
OPERATING RATING FACTOR : 1.35
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 255 KIPS

EARTH LOAD: DESIGNED FOR FILL HEIGHT RANGE OF 18 TO 20 FEET

MATERIAL PROPERTIES:

CONCRETE MASONRY ____ f'_c = 3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60) ____ f_y = 60,000 p.s.i.

HYDRAULIC DATA:

100 YEAR FLOOD

DRAINAGE AREA = 0.48 sq. mi.
WATERWAY AREA = 96 sq. ft.
V = 6.2 f.p.s.
Q_{100} = 590 c.f.s.
Q_2 = 180 c.f.s.
HIGH $WATER_{100}$ EL. 620.4
HIGH $WATER_2$ EL. 617.6
RDWY. OVERRFLOW = N/A
SCOUR CRITICAL CODE = 8

TRAFFIC DATA:

A.D.T. = 11,700 (2016)
A.D.T. = 13,600 (2036)
R.D.S. = 40 M.P.H.

FOR GENERAL NOTES SEE SHEET 2

LIST OF DRAWINGS

1. GENERAL PLAN
2. QUANTITIES AND NOTES
3. SUBSURFACE EXPLORATION
4. APRON DETAILS
5. INLET WING DETAILS
6. OUTLET WING DETAILS
7. BOX DETAILS
8. BAR STEEL LAYOUT
9. BILL OF BARS AND DETAILS

WISCONSIN
ARLEN E. BEAUDETTE
E-36829
EAU CLAIRE WI
PROFESSIONAL ENGINEER
8-6-18

BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608)-266-8489

CONSULTANT CONTACT:
ARLEN BEAUDETTE
(715)-834-3161

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 08/09/18
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-36-232

WALDO BLVD. OVER DRY RUN

COUNTY MANITOWOC | ~~TOWN~~/CITY/~~VILLAGE~~ MANITOWOC

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY CKJ/JWZ	DESIGN CK'D. JLB	DRAWN BY CJM/CLS	PLANS CK'D.

GENERAL PLAN

SHEET 1 OF 9
773

DATE: DATE: DATE:
CHECKED BY: BACK CHECKED BY: CORRECTED BY:

8 8

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O DESIGNATION M 213.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES" SHALL BE THE EXISTING GROUND LINE.

THE ALTERNATE CUTOFF WALL MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONCRETE CUTOFF WALLS. PAYMENT SHALL BE BASED ON THE CONCRETE CUTOFF WALLS.

THE CONCRETE IN THE CUTOFF WALL MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

THE EXISTING STRUCTURE TO BE REMOVED, IS A SINGLE CELL 12'± × 8'± CONCRETE BOX CULVERT WITH A BARREL LENGTH OF 167'±.

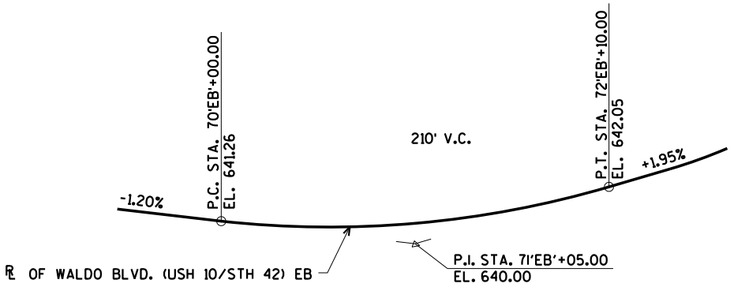
ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE TO THE ELEVATION OF THE TOP OF THE BOX WITHIN THE LENGTH OF THE BOX. THE PAY LIMITS OF THE BACKFILL STRUCTURAL ARE 3'-0" BEYOND THE HORIZONTAL PLAN LIMITS AT THE BOTTOM OF THE BOX AND APRON AND UP AT A 1:1.5 BACKFILL SLOPE FROM BOTTOM OF SLAB TO TOP OF BOX.

THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS IN CHAPTER 36 STANDARDS OF THE CURRENT WISCONSIN DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES"

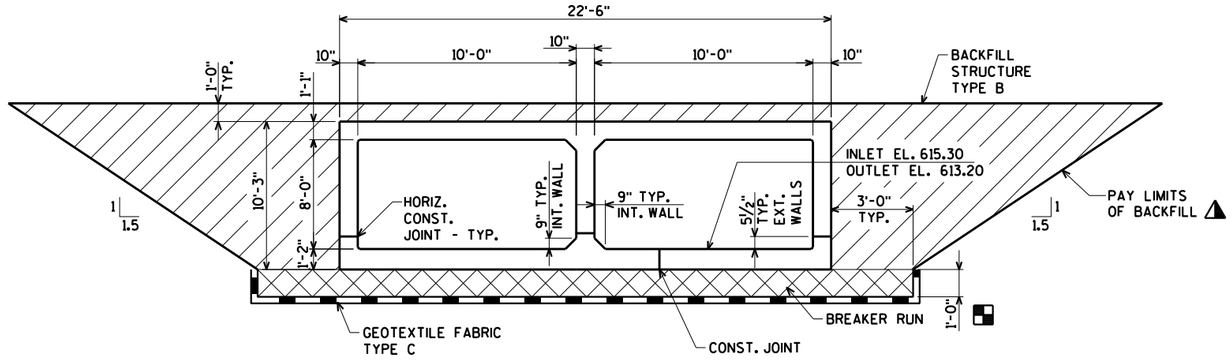
IN LIEU OF USING BREAKER RUN FOR THE BOX CONSTRUCTION PLATFORM, THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE. SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL. THE REGION GEOTECHNICAL ENGINEER MAY BE CONTACTED TO DETERMINE IF "OTHER GRANUALR MATERIAL" IS ACCEPTABLE.

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEMS	AMOUNT
203.0500.S	REMOVING OLD STRUCTURE OVER WATERWAY STATION 70+52	1 LS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS B-36-232	1 LS
210.2500	BACKFILL STRUCTURE TYPE B	4,590 TON
311.0110	BREAKER RUN	530 TON
504.0100	CONCRETE MASONRY CULVERTS	613 CY
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	75,760 LB
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	3,350 LB
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	42 SY
606.0300	RIPRAP HEAVY	135 CY
645.0105	GEOTEXTILE TYPE C	850 SY
645.0120	GEOTEXTILE TYPE HR	265 SY
	NON-BID ITEMS	
	FILLER	¾ SIZE



PROFILE GRADE LINE
WALDO BLVD. (USH 10/STH 42) EB



TYPICAL SECTION THRU BOX CULVERT AND BACKFILL DETAIL
(LOOKING SOUTH)

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

▪ IN LIEU OF USING BREAKER RUN FOR THE BOX CONSTRUCTION PLATFORM, THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL. THE REGION GEOTECHNICAL ENGINEER MAY BE CONTACTED TO DETERMINE IF "OTHER GRANULAR MATERIAL" IS ACCEPTABLE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-36-232

DRAWN BY CLS | PLANS CK'D. AEB

QUANTITIES AND NOTES

SHEET 2 OF 9
774

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
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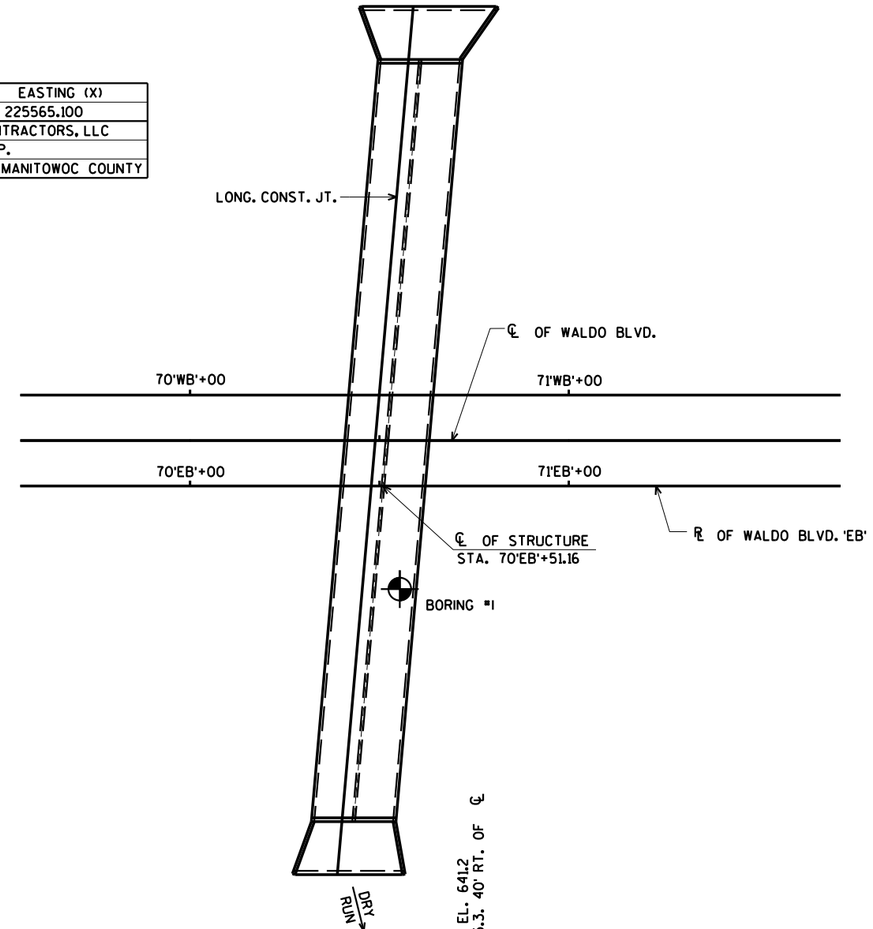
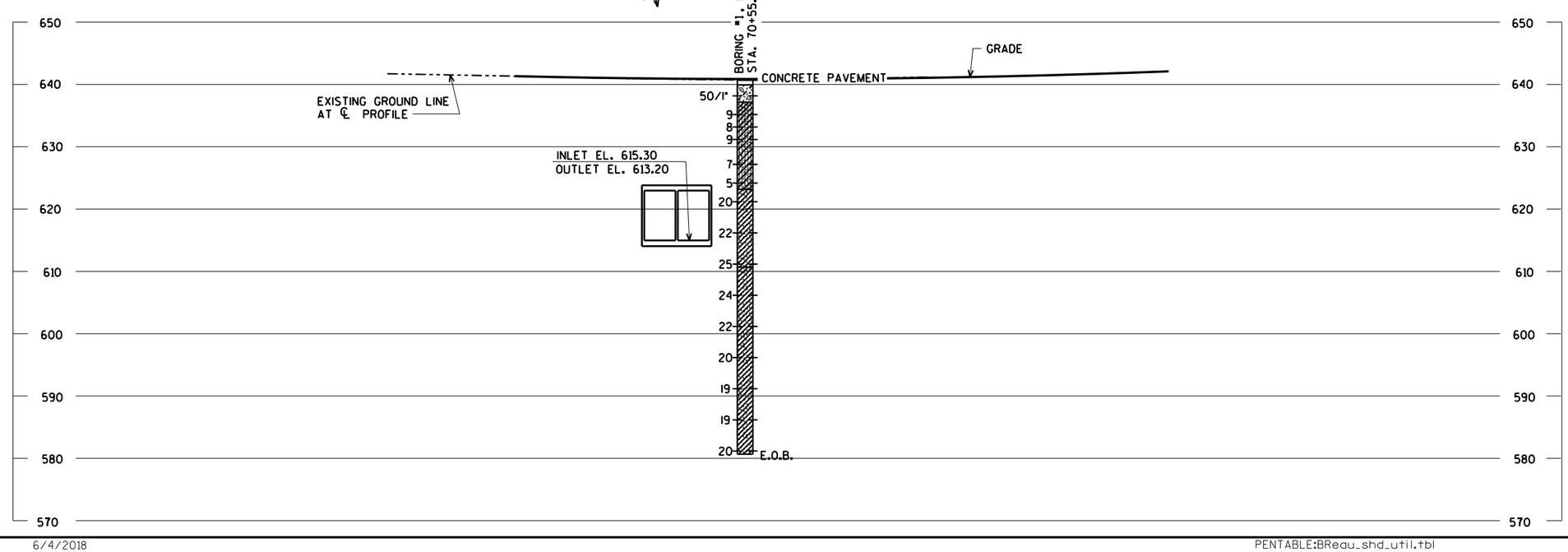
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1	01/20/2015	306943.533	225565.100
BORINGS COMPLETED BY: GEOTECHNICAL DRILLING CONTRACTORS, LLC			
REPORT COMPLETED BY: RIVER VALLEY TESTING CORP.			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) MANITOWOC COUNTY			





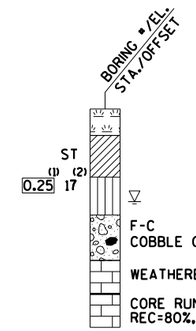
STATE PROJECT NUMBER

1500-37-71

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▼ END OF DRILLING
- ▽ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-36-232

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SUBSURFACE EXPLORATION

SHEET 3 OF 9
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6/4/2018

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STATE PROJECT NUMBER

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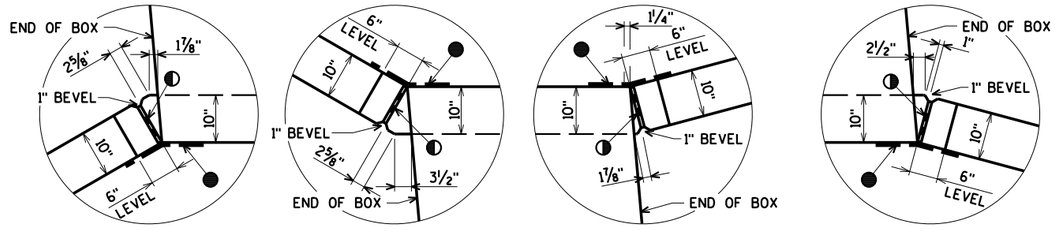
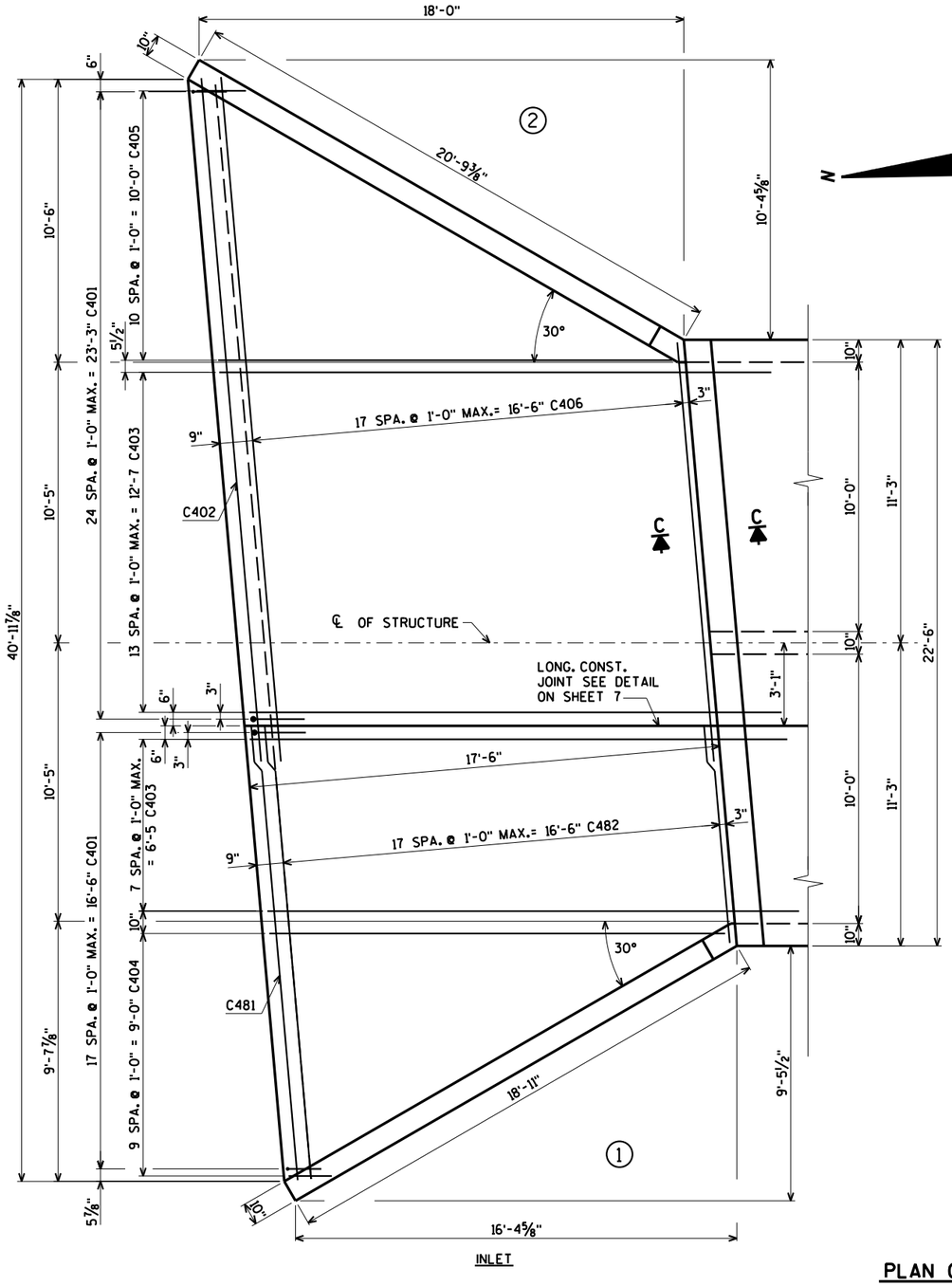
NOTE:
DO NOT RUN ANY BAR STEEL REINF. THRU JOINT FILLER.



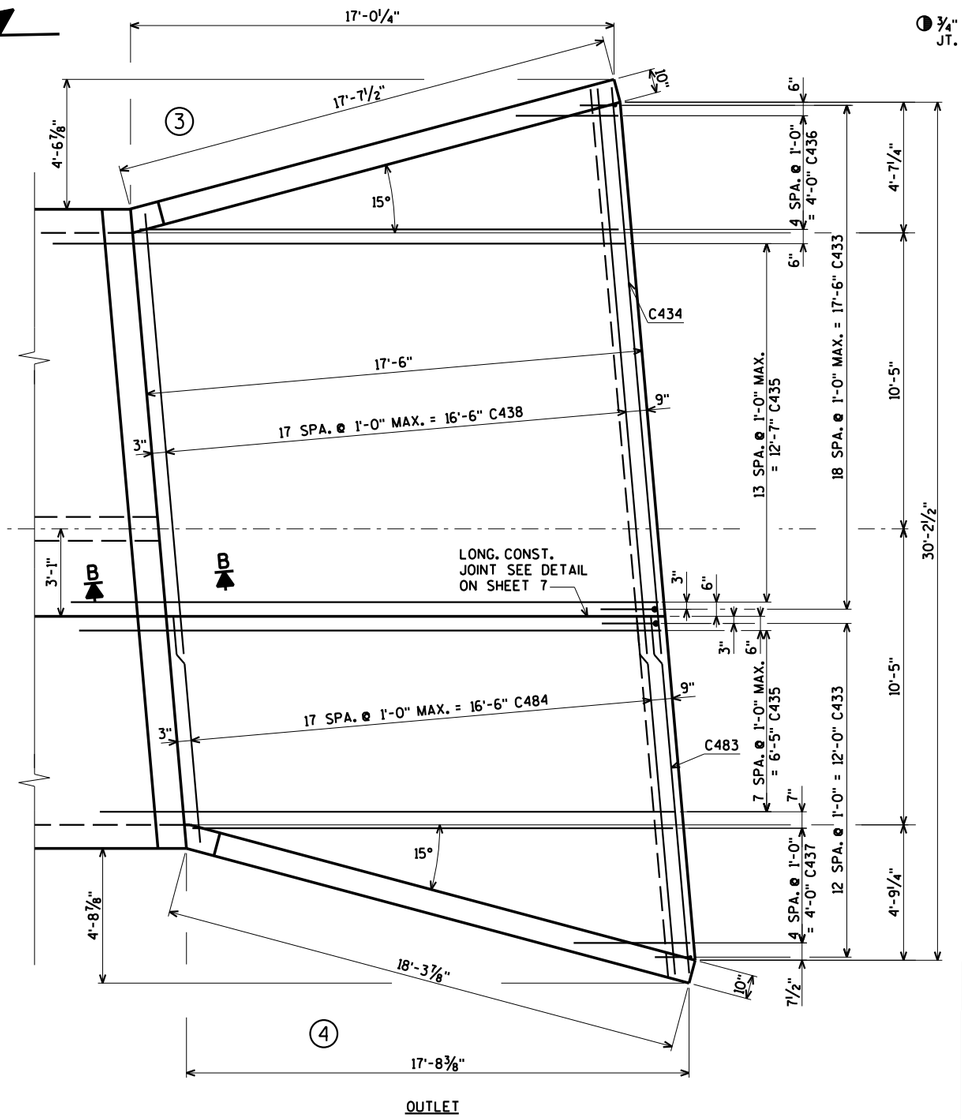
● 18" RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM HORIZ. CONST. JT. TO TOP OF WING.

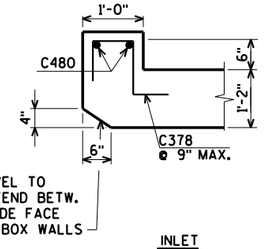
◑ ¾" FILLER TO EXTEND FROM HORIZ. CONST. JT. TO TOP OF WING.



PLAN OF APRONS

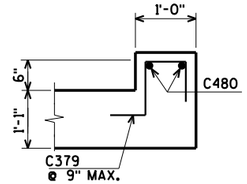
CORNER DETAIL





INLET

SECTION C



OUTLET

SECTION B

HEADER DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-36-232

DRAWN BY CJM | PLANS CK'D. AEB

APRON DETAILS

SHEET 4 OF 9
776

ORIGINAL PLANS PREPARED BY
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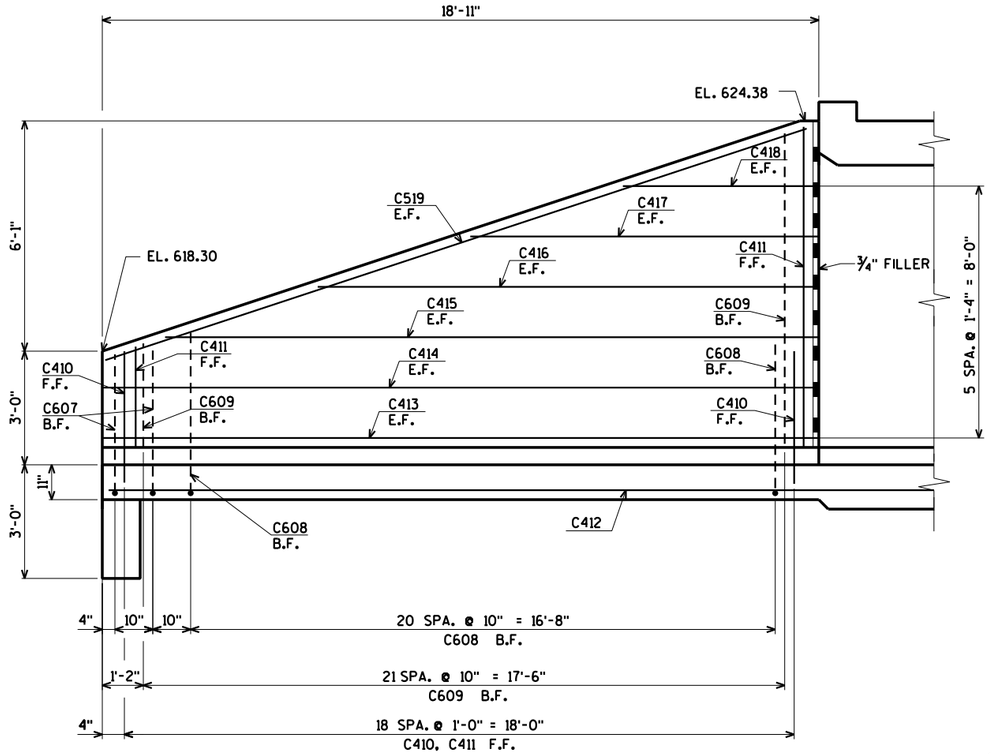
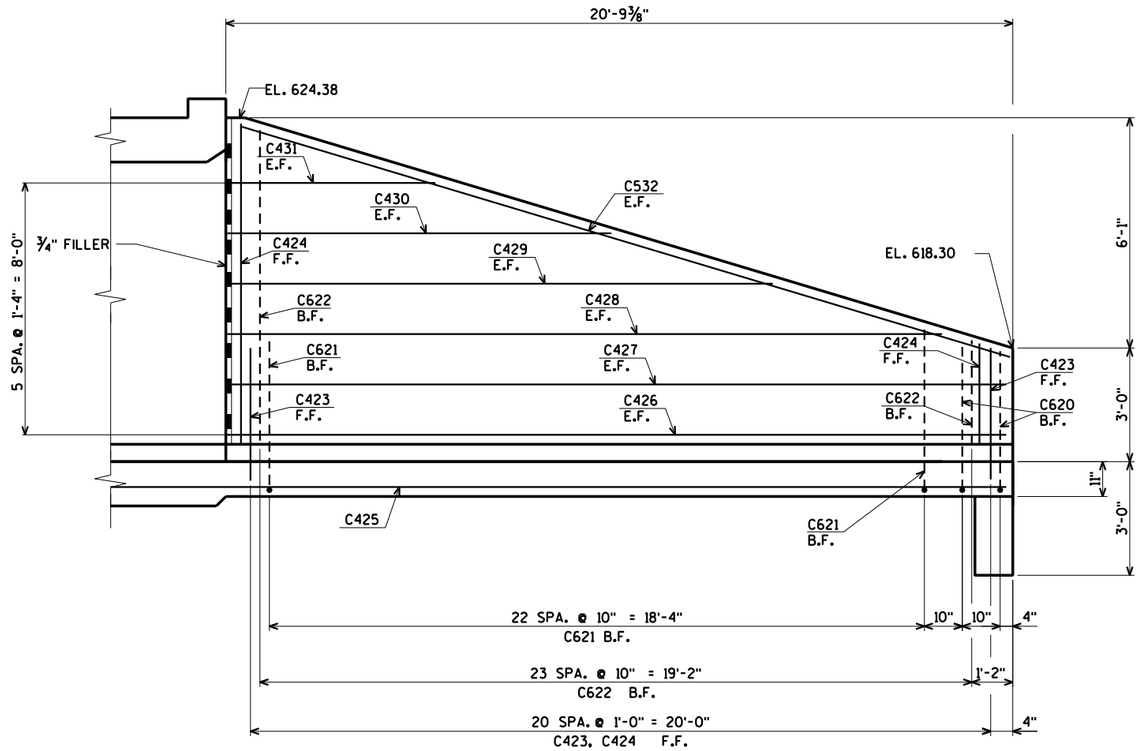
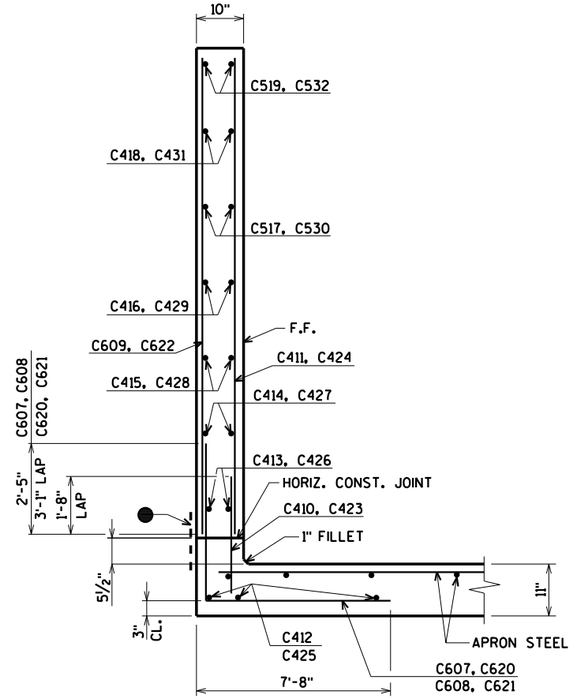


ELEVATION - WING 1



ELEVATION - WING 2



TYP. SECTION THRU WING

● 18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING ALONG HORIZ. CONSTR. JT. IN WING

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

B.F. DENOTES BACK FACE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-36-232

DRAWN BY CJM | PLANS CK'D. AEB

INLET WING DETAILS

SHEET 5 OF 9
777

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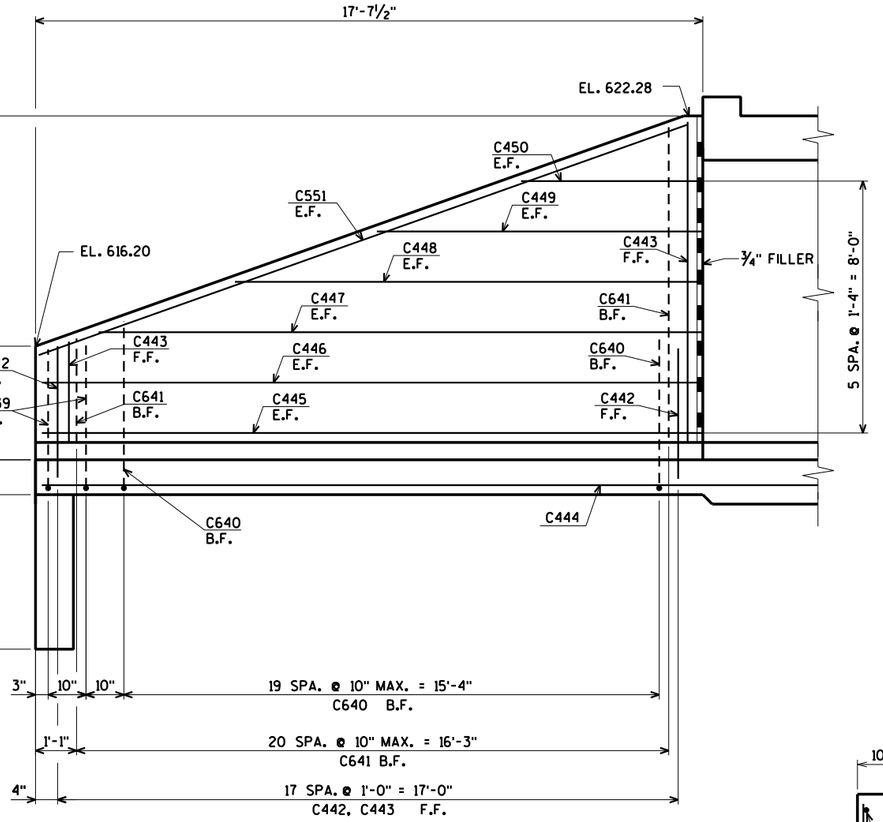
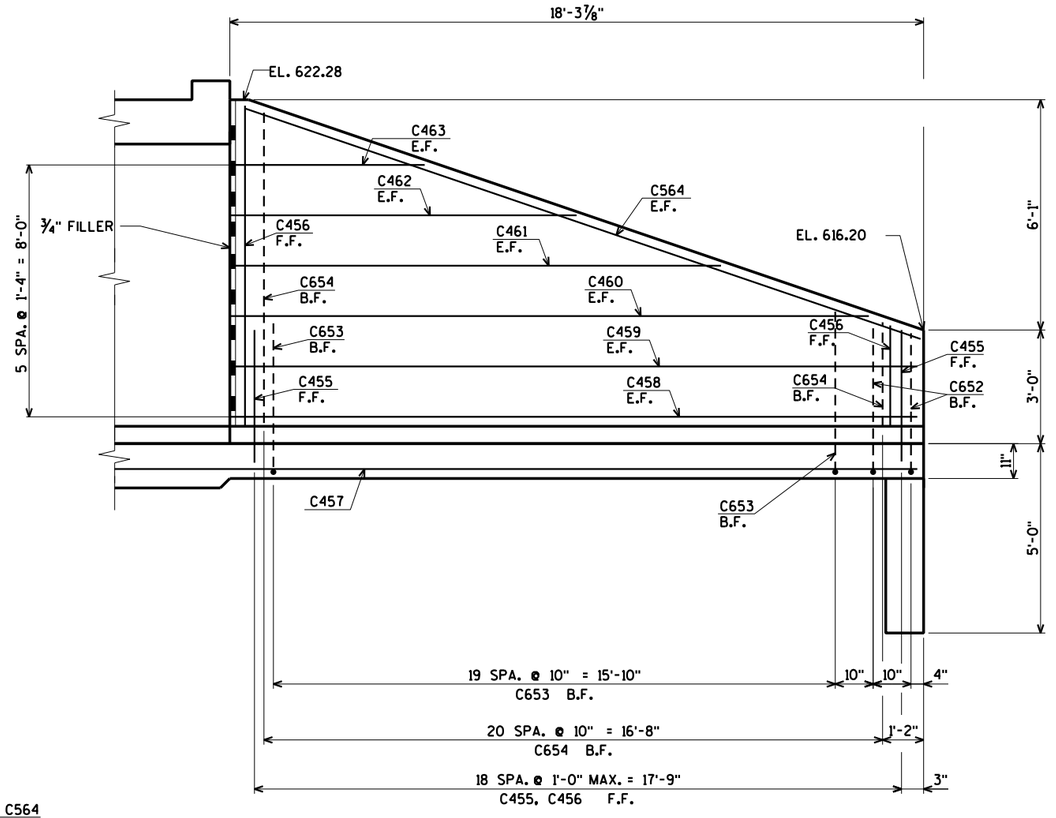
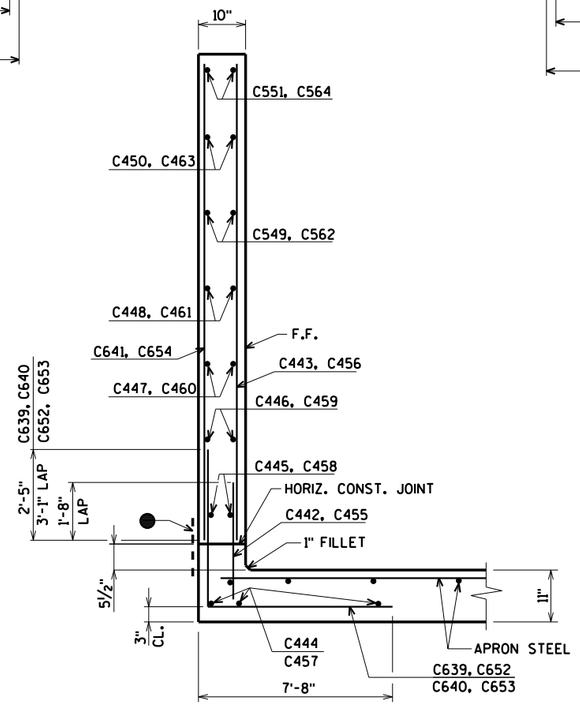


ELEVATION - WING 3



ELEVATION - WING 4



TYP. SECTION THRU WING

● 18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING ALONG HORIZ. CONSTR. JT. IN WING

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

B.F. DENOTES BACK FACE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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STRUCTURE B-36-232

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OUTLET WING DETAILS

SHEET 6 OF 9
778

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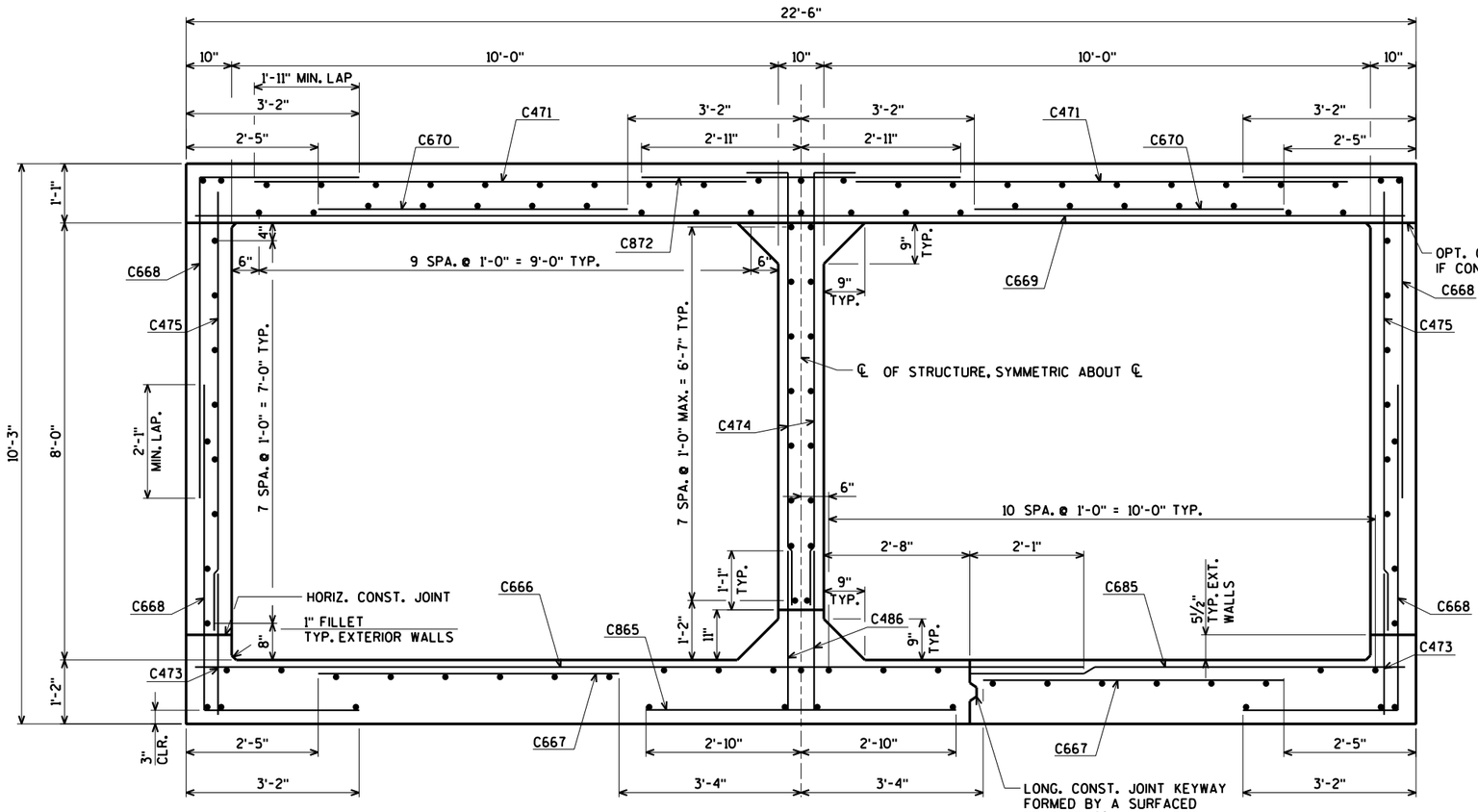
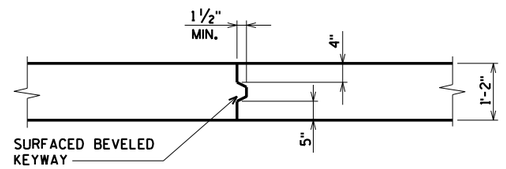
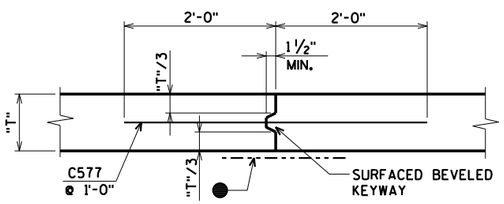


TYPICAL SECTION THRU BOX
(LOOKING SOUTH)

ALL LONGITUDINAL BARS IN BOX ARE C476 UNLESS SHOWN OTHERWISE



LONG. CONST. JOINT DETAIL
(BOTTOM SLAB OF BOX)



VERT. CONST. JOINT
(ALL WALLS AND SLABS)

● 18" RUBBERIZED MEMBRANE WATERPROOFING UP WALLS AND ACROSS TOP SLAB AT VERTICAL CONST. JOINTS AND ALONG HORIZONTAL CONST. JOINTS

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STATE OF WISCONSIN
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STRUCTURE B-36-232

DRAWN BY CJM | PLANS CK'D. AEB

BOX DETAILS

SHEET 7 OF 9
779

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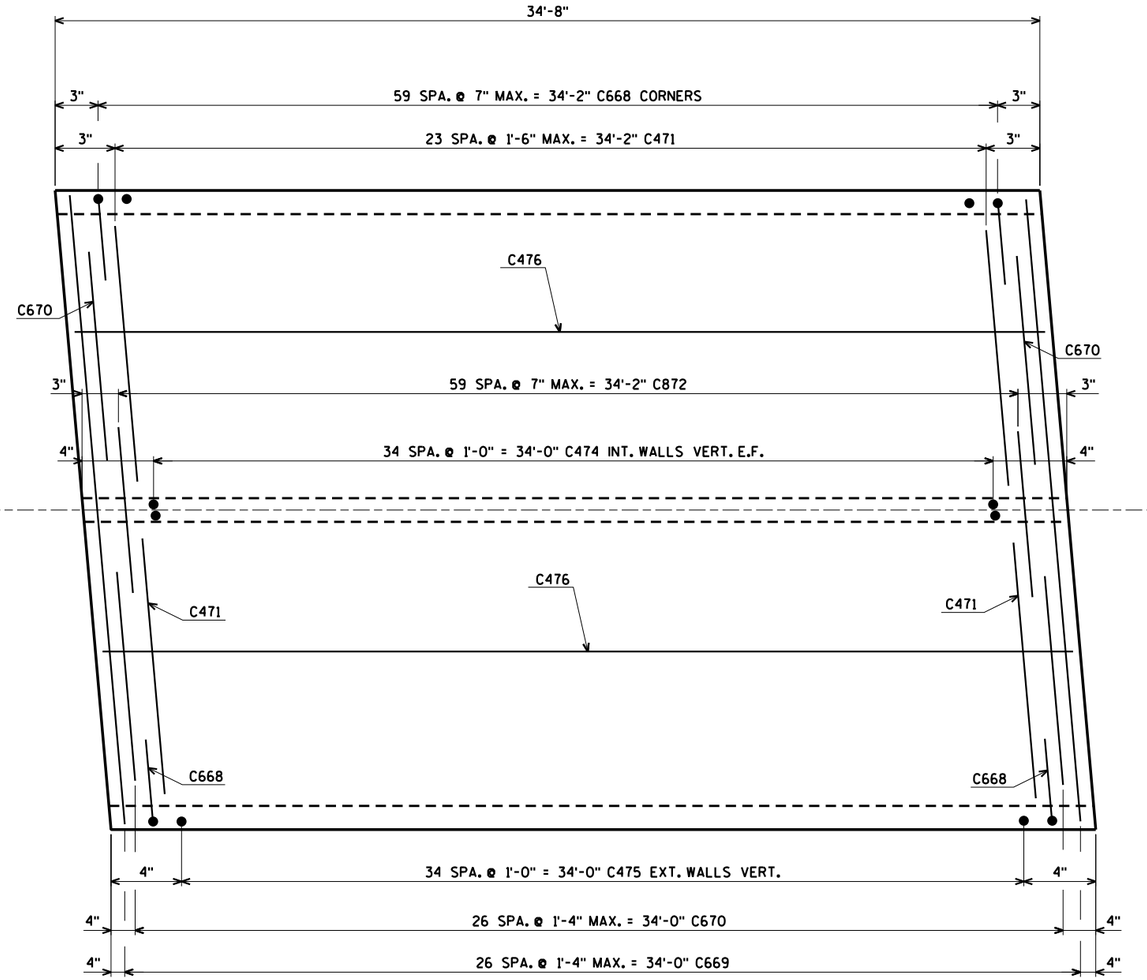
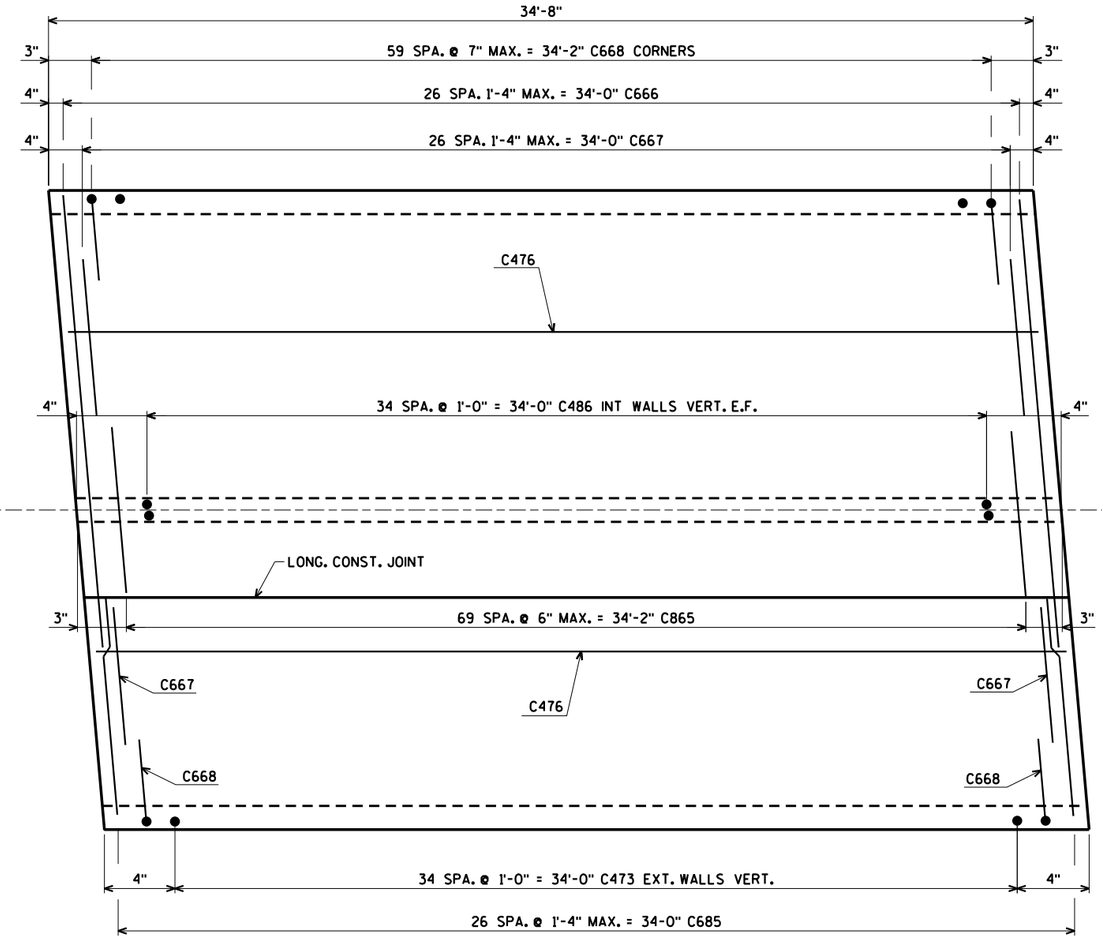


TOP SLAB PLAN

(SIX SECTIONS REQUIRED)



BOTTOM SLAB PLAN

(SIX SECTIONS REQUIRED)

E.F. DENOTES EACH FACE.

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STRUCTURE B-36-232

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BAR STEEL LAYOUT

SHEET 8 OF 9
780

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8/1/2018

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BILL OF BARS

BAR. NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR	SERIES	3,350# COATED 75,760# UNCOATED LOCATION
C401		43	3-7	X			CUTOFF WALL INLET
C402		3	25-3				CUTOFF WALL INLET
C403		22	19-7				APRON INLET
C404		10	9-10			⊗	APRON INLET WING 1
C405		11	9-1			⊗	APRON INLET WING 2
C406		18	20-5			⊗	APRON INLET
C607	X	2	10-11	X			WING 1 VERT B.F.
C608	X	21	11-7	X			WING 1 VERT B.F.
C609	X	22	5-6			⊗	WING 1 VERT B.F.
C410	X	19	2-10				WING 1 VERT. F.F.
C411	X	19	5-5			⊗	WING 1 VERT. F.F.
C412		3	21-0				WING 1 HORIZ. APRON
C413	X	2	18-7				WING 1 HORIZ. E.F.
C414	X	2	18-7				WING 1 HORIZ. E.F.
C415	X	2	17-1				WING 1 HORIZ. E.F.
C416	X	2	13-1				WING 1 HORIZ. E.F.
C417	X	2	9-0				WING 1 HORIZ. E.F.
C418	X	2	5-0				WING 1 HORIZ. E.F.
C519	X	2	19-1				WING 1 DIAG. E.F.
C620	X	2	10-11	X			WING 2 VERT B.F.
C621	X	23	11-7	X			WING 2 VERT B.F.
C622	X	24	5-7			⊗	WING 2 VERT B.F.
C423	X	21	2-10				WING 2 VERT. F.F.
C424	X	21	5-4			⊗	WING 2 VERT. F.F.
C425		3	22-11				WING 2 HORIZ. APRON
C426	X	2	20-5				WING 2 HORIZ. E.F.
C427	X	2	20-5				WING 2 HORIZ. E.F.
C428	X	2	18-9				WING 2 HORIZ. E.F.
C429	X	2	14-4				WING 2 HORIZ. E.F.
C430	X	2	9-11				WING 2 HORIZ. E.F.
C431	X	2	5-6				WING 2 HORIZ. E.F.
C532	X	2	21-1				WING 2 DIAG. E.F.
C433		32	5-7	X			CUTOFF WALL OUTLET
C434		5	18-2				CUTOFF WALL OUTLET
C435		22	19-7				APRON OUTLET
C436		5	10-11			⊗	APRON OUTLET WING 3
C437		5	10-8			⊗	APRON OUTLET WING 4
C438		18	17-6			⊗	APRON OUTLET
C639	X	2	10-11	X			WING 3 VERT B.F.
C640	X	20	11-7	X			WING 3 VERT B.F.

BILL OF BARS (CONTINUED)

BAR. NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR	SERIES	LOCATION
C641	X	21	5-7			⊗	WING 3 VERT B.F.
C442	X	18	2-10				WING 3 VERT. F.F.
C443	X	18	6-9			⊗	WING 3 VERT. F.F.
C444		3	19-9				WING 3 HORIZ. APRON
C445	X	2	17-3				WING 3 HORIZ. E.F.
C446	X	2	17-3				WING 3 HORIZ. E.F.
C447	X	2	15-5				WING 3 HORIZ. E.F.
C448	X	2	11-8				WING 3 HORIZ. E.F.
C449	X	2	7-11				WING 3 HORIZ. E.F.
C450	X	2	2-3				WING 3 HORIZ. E.F.
C551	X	2	18-4				WING 3 DIAG. E.F.
C652	X	2	10-11	X			WING 4 VERT B.F.
C653	X	20	11-7	X			WING 4 VERT B.F.
C654	X	21	5-5			⊗	WING 4 VERT B.F.
C455	X	19	2-10				WING 4 VERT. F.F.
C456	X	19	5-5			⊗	WING 4 VERT. F.F.
C457		3	20-5				WING 4 HORIZ. APRON
C458	X	2	18-0				WING 4 HORIZ. E.F.
C459	X	2	18-0				WING 4 HORIZ. E.F.
C460	X	2	16-6				WING 4 HORIZ. E.F.
C461	X	2	12-8				WING 4 HORIZ. E.F.
C462	X	2	8-9				WING 4 HORIZ. E.F.
C463	X	2	4-10				WING 4 HORIZ. E.F.
C564	X	2	18-11				WING 4 DIAG. E.F.
C865		420	5-8				BOX BOT. SLAB TRANS
C666		162	16-3				BOX BOT. SLAB TRANS.
C667		324	5-6				BOX BOT. SLAB TRANS.
C668		1,440	9-0	X			BOX CORNERS
C669		162	22-2				BOX TOP SLAB TRANS. TOP
C670		324	5-8				BOX TOP SLAB TRANS.
C471		288	9-0				BOX TOP SLAB TRANS.
C872		360	5-10				BOX TOP SLAB TRANS.
C473		420	2-10				BOX DOWELS VERT. EXT. WALLS
C474		420	8-11	X			BOX INT. WALL VERT. E.F.
C475		420	8-5				BOX EXT. WALLS VERT.
C476		678	34-4				BOX LONG.
C577		365	4-0				BOX DOWELS
C378		31	2-9	X			BOX HEADER VERT.
C379		31	2-11	X			BOX HEADER LONG.
C480		4	22-3				BOX HEADER INLET AND OUTLET
C481		3	16-11				CUTOFF WALL INLET
C482		18	12-6			⊗	APRON INLET
C483		5	12-2				CUTOFF WALL OUTLET
C484		18	10-1			⊗	APRON OUTLET
C685		162	8-0				BOX BOT. SLAB TRANS.
C486		420	3-4				BOX DOWELS VERT. INT. WALL E.F.

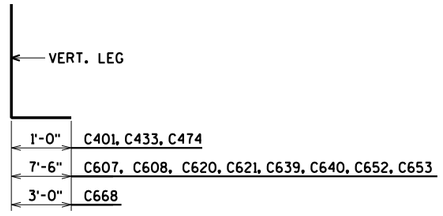
BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

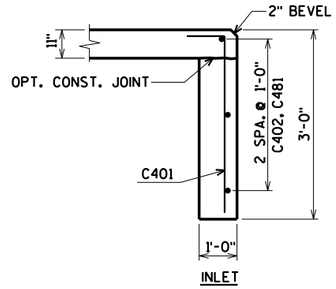
⊗ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

BAR MARK	NO REQ'D.	LENGTH
C404	1 SERIES OF 10	1'-7" TO 18'-1"
C405	1 SERIES OF 11	6" TO 17'-8"
C406	1 SERIES OF 18	15'-7" TO 25'-3"
C609	1 SERIES OF 22	2'-9" TO 8'-3"
C411	1 SERIES OF 19	2'-5" TO 8'-5"
C622	1 SERIES OF 24	2'-9" TO 8'-5"
C424	1 SERIES OF 21	2'-4" TO 8'-4"
C436	1 SERIES OF 5	4'-9" TO 17'-1"
C437	1 SERIES OF 5	4'-3" TO 17'-1"
C438	1 SERIES OF 18	15'-7" TO 19'-5"
C641	1 SERIES OF 21	2'-9" TO 8'-5"
C443	1 SERIES OF 18	3'-9" TO 9'-9"
C654	1 SERIES OF 21	2'-6" TO 8'-4"
C456	1 SERIES OF 19	2'-4" TO 8'-6"
C482	1 SERIES OF 18	8'-0" TO 17'-0"
C484	1 SERIES OF 18	8'-0" TO 12'-2"

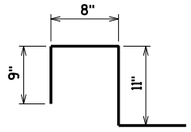
BUNDLE AND TAG EACH SERIES SEPARATELY.





INLET

SECTION THRU CUTOFF WALL



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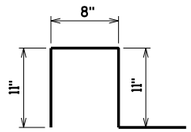

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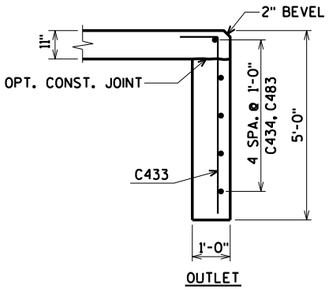
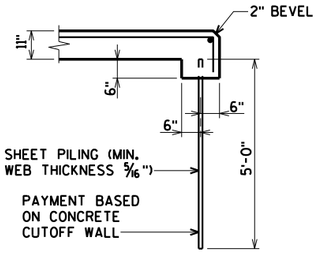


OUTLET

SECTION THRU CUTOFF WALL



SECTION THRU ALTERNATE CUTOFF WALL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-36-232

DRAWN BY CJM | PLANS CK'D. AEB

BILL OF BARS AND DETAILS

SHEET 9 OF 9
781

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

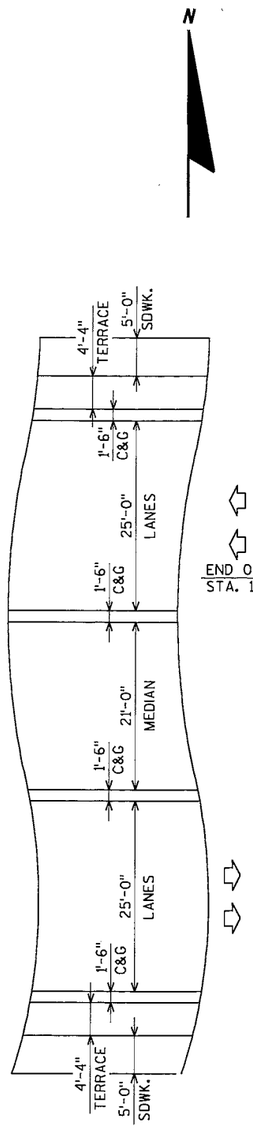
$PRFNAME$
U:\41-0629.00 - Manitowoc County, Waldo Blvd\Box Culvert\BRIDGE\Final\410629 culv dtls.DGN

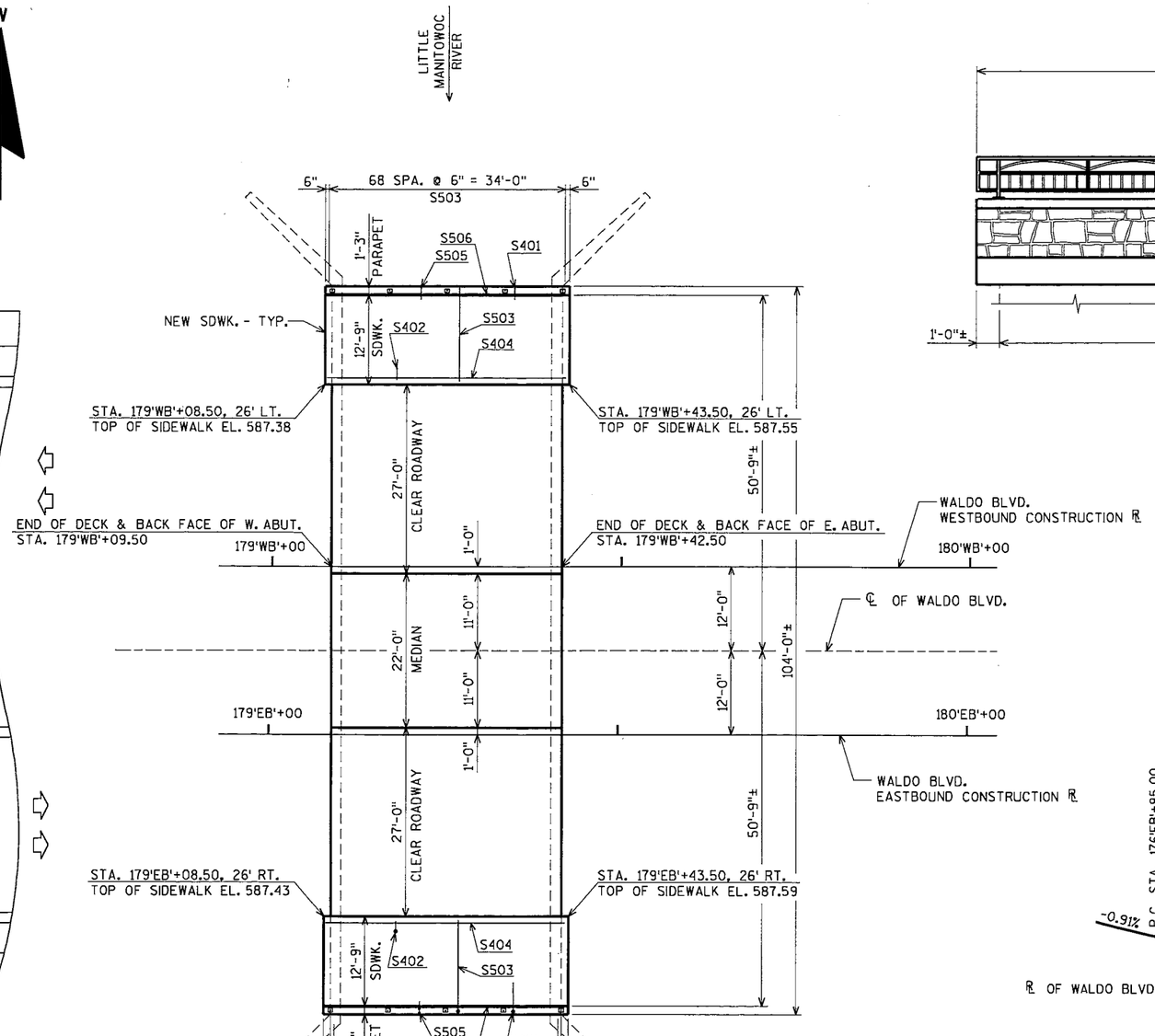
8

8

STATE PROJECT NUMBER

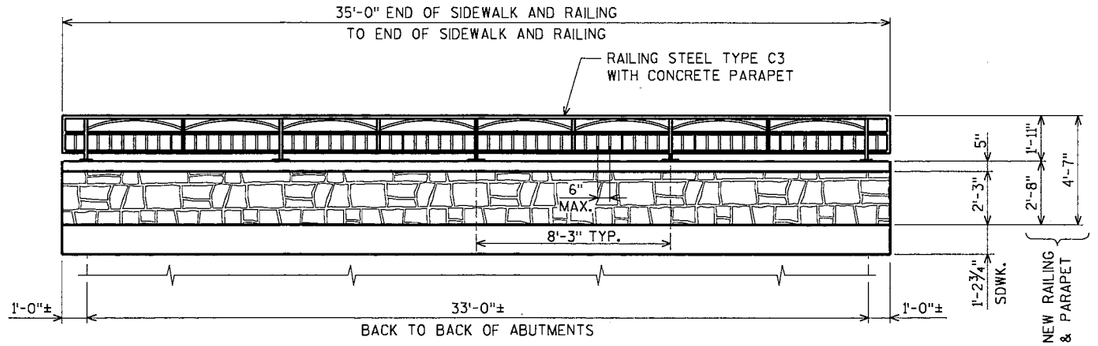
4570-12-71





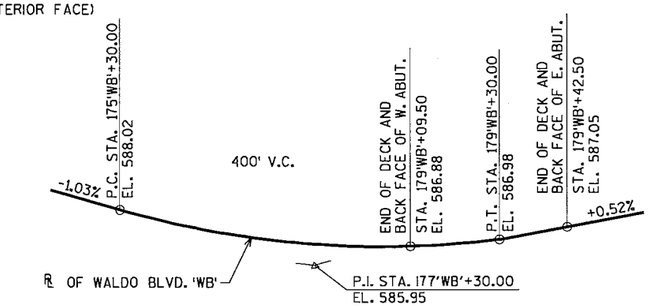
PLAN

SINGLE-SPAN CONCRETE DECK GIRDER BRIDGE
(RAILING REPLACEMENT AND DECK REPAIRS)



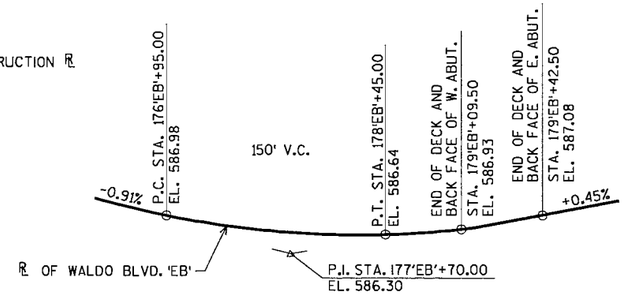
ELEVATION OF RAILING

(EXTERIOR FACE)



PROFILE GRADE LINE

(WALDO BLVD. 'WB')



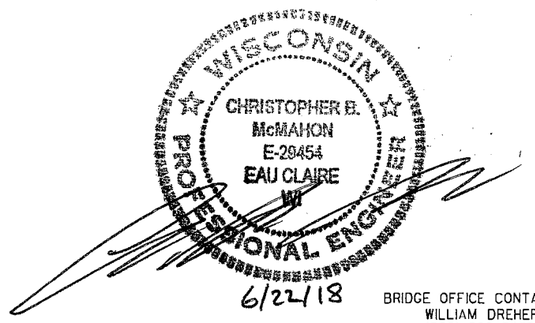
PROFILE GRADE LINE

(WALDO BLVD. 'EB')

FOR TYPICAL SECTION AND DESIGN DATA SEE SHEET 2

LIST OF DRAWINGS

1. GENERAL PLAN
2. TYPICAL SECTION AND DESIGN DATA
3. SIDEWALK DETAILS
4. RAILING STEEL TYPE C3 AND PARAPET DETAILS
5. RAILING STEEL TYPE C3 DETAILS



BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608)-266-8489

CONSULTANT CONTACT:
CHRIS MCMAHON
(715)-834-3161

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 08/02/18
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-36-900

WALDO BLVD. OVER THE LITTLE MANITOWOC RIVER

COUNTY	~~TOWN~~/CITY/~~VILLAGE~~
MANITOWOC	MANITOWOC

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	JWZ	DESIGN CK'D.	JLB	DRAWN BY	CLS	PLANS CK'D.	CBM

GENERAL PLAN

SHE 782 F 5

DATE:
DATE:
DATE:
CHECKED BY:
BACK CHECKED BY:
CORRECTED BY:

11X17-5200.plt
410629 gp rail.dgn

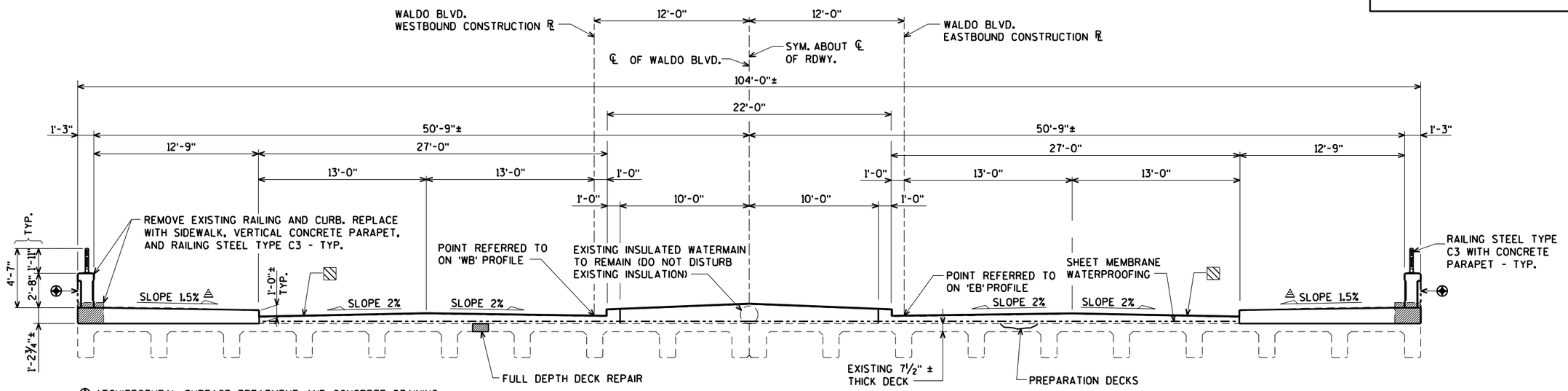
6/22/2018 black.tbl I.D. DATE:

8

8

STATE PROJECT NUMBER

4570-12-71



⊕ ARCHITECTURAL SURFACE TREATMENT AND CONCRETE STAINING

△ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

CROSS SECTION THRU ROADWAY

(LOOKING EAST)

▨ REMOVE AND RECONSTRUCT ROADWAY. ROADWAY PAVEMENT WILL BE 8½" OF CONCRETE OVER BASE AGGREGATE DENSE. INCREASE PAVEMENT THICKNESS ON BRIDGE AS NECESSARY AT THE CROWN. REDUCE PAVEMENT THICKNESS ON BRIDGE AS NECESSARY AT CURBS. BASE AGGREGATE DENSE WILL NOT BE ALLOWED TO BE PLACED ON THE DECK. - SEE ROAD PLANS

TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEMS	UNIT	TOTAL	CATEGORY 0030	CATEGORY 0020
	203.0200	REMOVING OLD STRUCTURE STATION 179'EB'+26.00	LS	1	1	-----
	502.0100	CONCRETE MASONRY BRIDGES	CY	50	50	-----
	502.3200	PROTECTIVE SURFACE TREATMENT	SY	110	110	-----
	502.3210	PIGMENTED SURFACE SEALER	SY	35	35	-----
	502.4204	ADHESIVE ANCHORS NO. 4 BAR	EACH	260	260	-----
	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	4,540	4,540	-----
	509.0301	PREPARATION DECKS TYPE 1	SY	30	30	-----
	509.0302	PREPARATION DECKS TYPE 2	SY	15	15	-----
◨	509.1500	CONCRETE SURFACE REPAIR	SF	50	50	-----
	509.2000	FULL DEPTH DECK REPAIR	SY	5	5	-----
●	509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	5	5	-----
	513.7016	RAILING STEEL TYPE C3	LF	70	-----	70
	516.0610.S	SHEET MEMBRANE WATERPROOFING FOR TOP SLAB B-36-900	SY	280	280	-----
	517.1010.S	CONCRETE STAINING B-36-900	SF	460	-----	460
	517.1050.S	ARCHITECTURAL SURFACE TREATMENT B-36-900	SF	160	-----	160

◨ UNDISTRIBUTED QUANTITY FOR ABUTMENTS AS DIRECTED BY THE ENGINEER, IF NECESSARY.

● UNDISTRIBUTED QUANTITY FOR PREPARATION DECKS AND FULL DEPTH DECK REPAIR AREAS.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

ANY EXCAVATION NECESSARY TO COMPLETE THE WORK IS CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY BRIDGES".

ALL CONCRETE REMOVAL NOT COVERED WITH SHEET MEMBRANE WATERPROOFING SHALL BE DEFINED BY A 1" DEEP SAW CUT UNLESS SHOWN OR NOTED OTHERWISE.

BAR STEEL REINFORCEMENT SHALL BE EMBEDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.

PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2, CONCRETE SURFACE REPAIR AND FULL DEPTH DECK REPAIR AREAS SHALL BE DETERMINED BY THE FIELD ENGINEER.

UTILIZE EXISTING BAR STEEL RENIFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

REMOVAL OF THE EXISTING RAILING AND PARAPET IS INCLUDED IN THE BID ITEM "REMOVING OLD STRUCTURE STATION 179'EB'+26.00.

PROTECTIVE SURFACE TREATMENT IS TO BE APPLIED TO THE FACE OF CURB AND TOP OF SIDEWALK. PIGMENTED SURFACE SEALER IS TO BE APPLIED TO THE TOP AND INSIDE FACES OF PARAPETS, AS SHOWN IN DETAIL ON SHEET 3.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS NOTED OTHERWISE.

ORIGINAL CONSTRUCTION YEAR IS 1934.

PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2, AND FULL DEPTH DECK REPAIR AREAS WILL BE FILLED WITH CONCRETE MASONRY OVERLAY DECKS.

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS-20
INVENTORY RATING: HS-20
OPERATING RATING: HS-34

WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 220 KIPS

MATERIAL PROPERTIES:

CONCRETE MASONRY { SUPERSTRUCTURE _____ f'c = 4,000 p.s.i.
ALL OTHER _____ f'c = 3,500 p.s.i.

HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60) _____ fy = 60,000 p.s.i.

TRAFFIC DATA:

A.D.T. = 11,700 (2019)
A.D.T. = 13,600 (2039)
R.D.S. = 40 M.P.H.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-36-900

DRAWN BY CLS | PLANS CK'D. CBM

TYPICAL SECTION AND DESIGN DATA

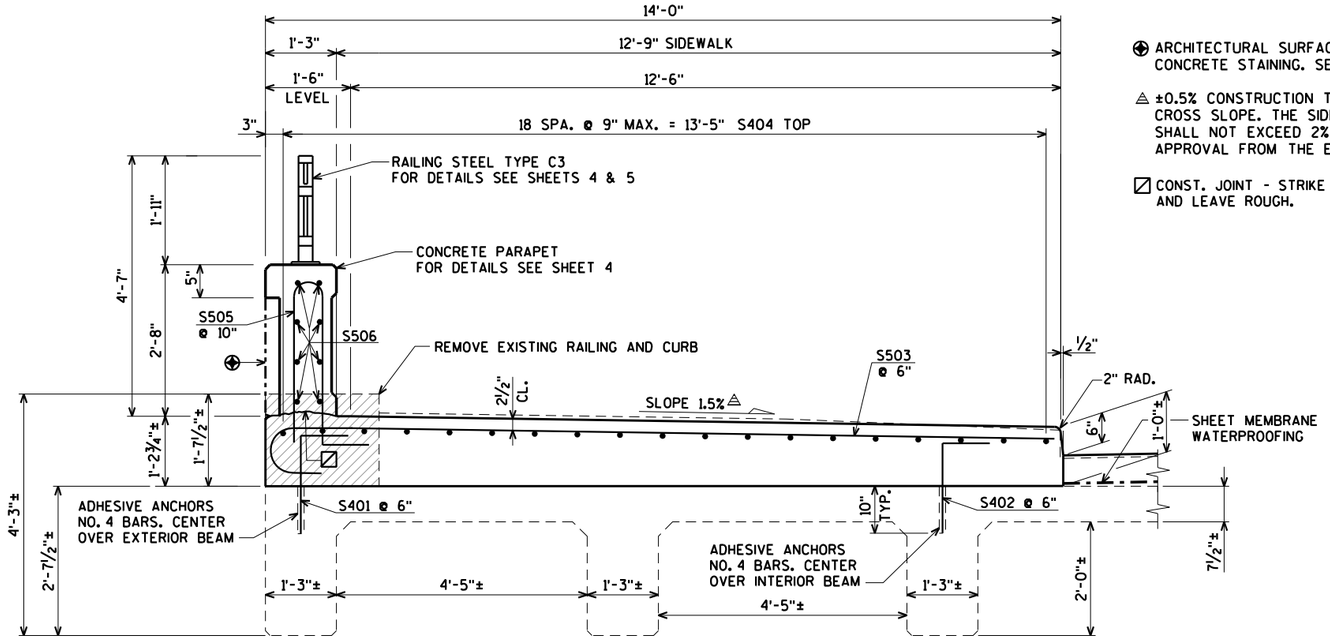
SHEET 2 OF 5
783

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

$PRFNAME$
U:\41-0629.00 - Manitowoc County, Waldo Blvd\Bridge over Little Manitowoc River\BRIDGE\410629 gp rail.dgn

STATE PROJECT NUMBER

4570-12-71



TYPICAL SECTION THRU SIDEWALK

⊕ ARCHITECTURAL SURFACE TREATMENT AND CONCRETE STAINING. SEE DETAILS ON THIS SHEET.

△ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

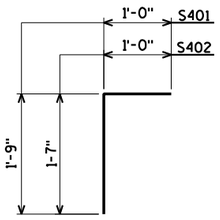
☒ CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH.

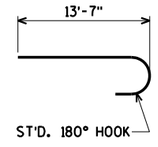
BILL OF BARS

	BAR. NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR SERIES	4,540# COATED LOCATION
▲	S401	X	130	2-8	X		EXISTING SLAB @ SIDEWALK
▲	S402	X	130	2-6	X		EXISTING SLAB @ SIDEWALK
	S503	X	138	14-2	X		SIDEWALK TRANS.
	S404	X	38	34-8			SIDEWALK LONG.
	S505	X	84	6-9	X		PARAPET VERT.
	S506	X	16	34-8			SDWK. @ PARAPET HORIZ.

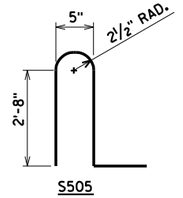
BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

▲ ADHESIVE ANCHORS NO. 4 BAR





S503



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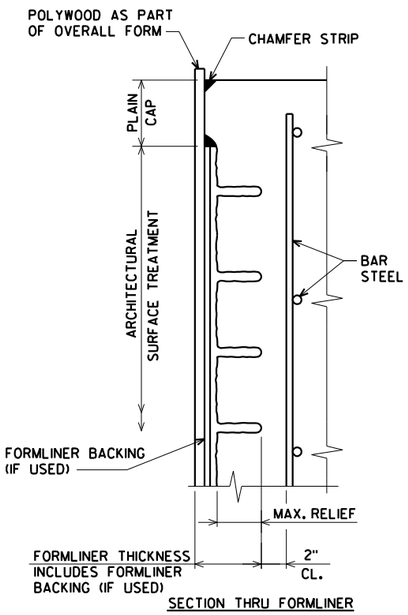
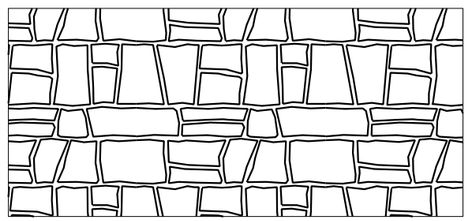


SECTION THRU FORMLINER

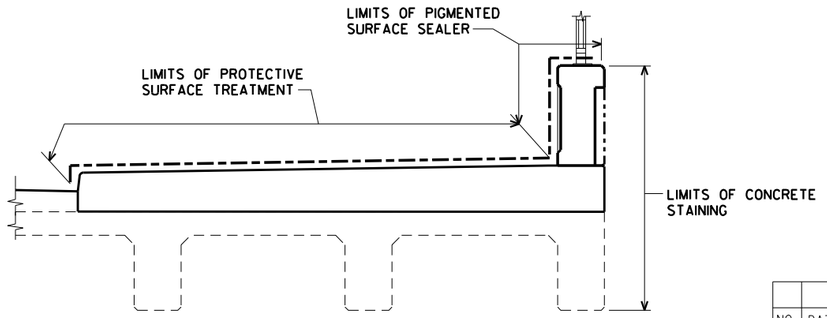
PARAPET NOTES

FORMLINER COURSING ON PARAPETS SHALL BE PARALLEL TO TOP OF PARAPET.



RUSTIC ASHLAR

FORMLINER THICKNESS = 3"
SIZE = 8" & 32"
MAX. RELIEF = 2"



SURFACE TREATMENT DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-36-900

DRAWN BY CLS | PLANS CK'D. CBM

SIDEWALK DETAILS

SHEET 3 OF 5
784

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
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Eau Claire, WI 54701
www.AyresAssociates.com

ecpdf.plt
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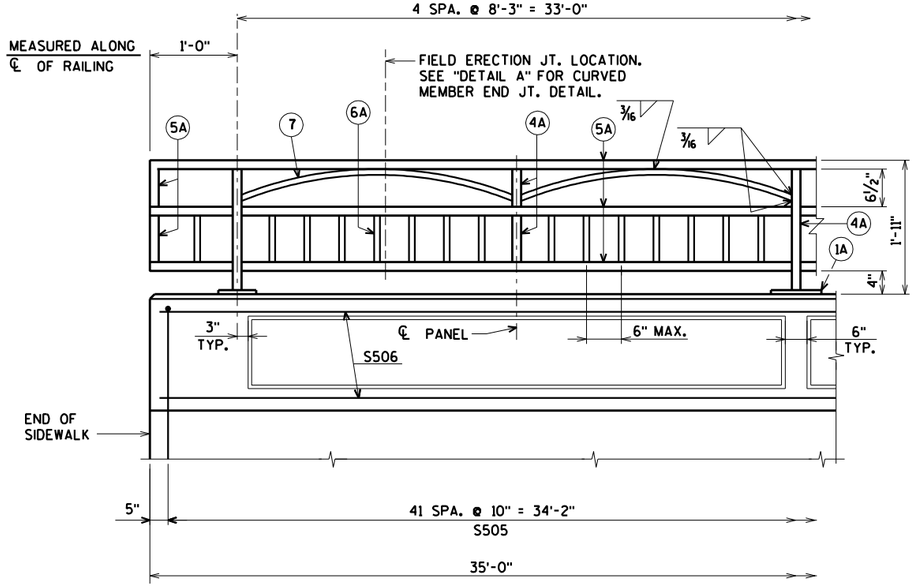
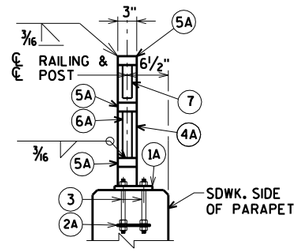
6/22/2018

black.tbl

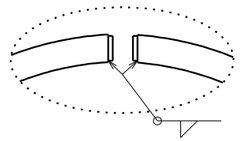


ELEVATION OF RAILING

(LOOKING AT INSIDE FACE OF PARAPET)

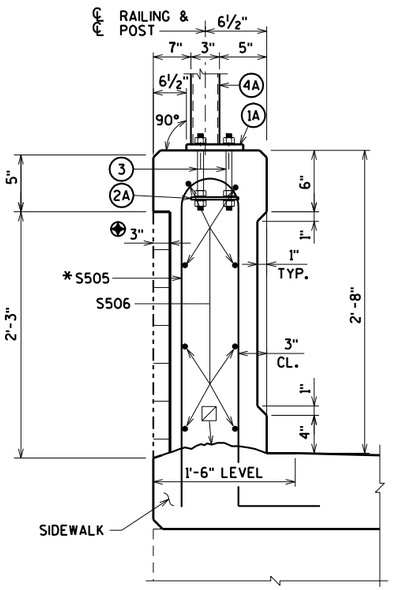


END VIEW



DETAIL A

SEAL ENDS ON CURVED STRUCTURAL TUBING WITH 1/4" PLATE. WELD AND GRIND SMOOTH.



SECTION THRU PARAPET ON BRIDGE

* ADJUST LOCATIONS OF BARS TO ALLOW PLACEMENT OF ANCHOR ASSEMBLY FOR RAILING

☒ CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH.

⊕ ARCHITECTURAL SURFACE TREATMENT FOR DETAILS SEE SHEET 3.

WORK THIS SHEET WITH SHEET 5.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-36-900

DRAWN BY CLS | PLANS CK'D. CBM

RAILING STEEL TYPE C3 AND PARAPET DETAILS

SHEET 4 OF 5
785

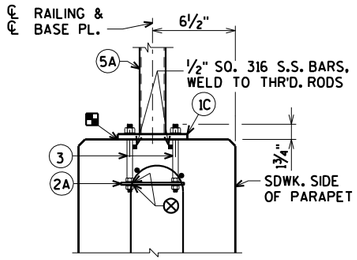
ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

$PRFNAME$
U:\41-0629.00 - Manitowoc County, Waldo Blvd\Bridge over Little Manitowoc River\BRIDGE\410629 C3 rail.dgn

$PRFNAME$
U:\41-0629.00 - Manitowoc County, Waldo Blvd\Bridge over Little Manitowoc River\BRIDGE\410629 C3

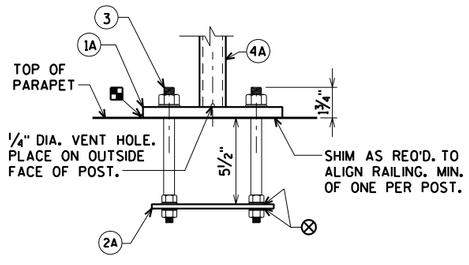
STATE PROJECT NUMBER

4570-12-71



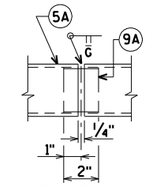
ANCHORAGE FOR END RAIL

NOTE: ANCHOR PLATES NOT REQ'D. WHEN ADHESIVE ANCHORS ARE USED.



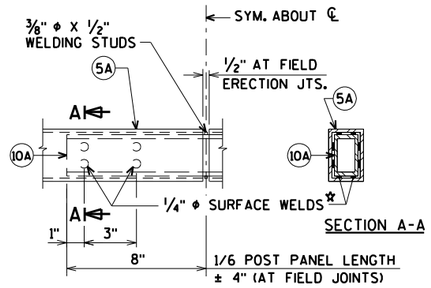
ANCHORAGE FOR RAIL POSTS

NOTE: ANCHOR PLATES NOT REQ'D. WHEN ADHESIVE ANCHORS ARE USED.



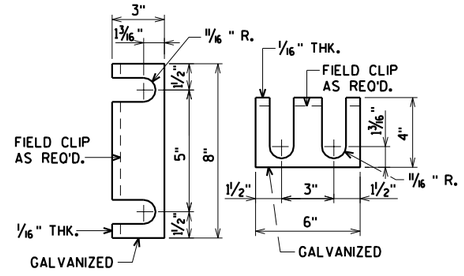
SHOP RAIL SPLICE DETAIL

(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



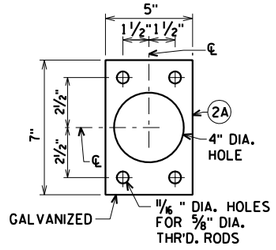
FIELD ERECTION JOINT DETAIL

☆ MIN. ⅝" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.



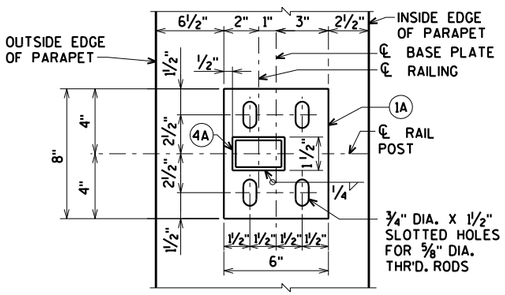
RAIL POST SHIM DETAIL

(2 SETS PER POST)



ANCHOR PLATE

FOR 3" X 1½" X 3/16" POSTS (4A)



TYP. RAIL POST BASE PLATE

FOR 3" X 1½" X 3/16" POSTS (4A)

LEGEND

(1A) PLATE ⅝" x 6" x 8" WITH ¾" x 1½" SLOTTED HOLES.

(2A) ¼" x 5" x 7" ANCHOR PLATE WITH 1 1/16" DIA. HOLES FOR THR'D. RODS NO. 3.

(3) ⅝" DIA. x 9" LONG, TYPE 316 STAINLESS STEEL THR'D. RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. ALTERNATE ANCHORAGE: CONCRETE ADHESIVE ANCHORS ⅝-INCH. EMBED 7" IN CONCRETE FOR RAIL POSTS. EMBED 5" IN CONCRETE FOR END RAILS. ADHESIVE ANCHORS SHALL CONFORM TO SECTION 502.2.12 OF THE STANDARD SPECIFICATIONS.

(4A) STRUCTURAL TUBING 3" x 1½" x 3/16". PLACE VERTICAL. WELD TO NO. 1 & 5.

(5A) STRUCTURAL TUBING 3" x 1½" x 3/16" RAILS. WELD TO NO. 1 & NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION JOINTS.

(6A) BAR 1" x 1" PICKETS. WELD TO NO. 5. (SPACE AT 6" MAX. ℄ TO ℄ SPACING). PLACE VERTICAL.

(7) BAR 1" x 1". BEND TO REQUIRED RADIUS. WELD TO NO. 4 & 5.

(9A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. PROVIDE "SLIDING FIT".

(10A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. (1'-4" @ FIELD ERECTION JTS.)

NOTES

BID ITEM SHALL BE "RAILING STEEL TYPE C3" WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ALL PLATES, BARS, AND RECTANGULAR SLEEVES SHALL CONFORM ASTM A709 GRADE 36. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

▪ CAULK AROUND PERIMETER OF BASE PLATES NO. 1 AND FILL BOLT SLOT OPENINGS IN SHIMS AND BASE PLATES WITH NON-STAINING GREY NON-BITUMINOUS JOINT SEALER.

ALL JOINTS AND RECESSES IN CONCRETE PARAPET ARE TO BE VERTICAL.

ALL MATERIAL (EXCEPT NO. 3) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE CONTRACT DOCUMENTS. THE RAILING SHALL BE PAINTED FEDERAL COLOR NO. 27038, BLACK.

VENT HOLES SHAL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.

⊗ PLASTIC WASHERS USED TO SEPARATE S.S. WASHER AND GALVANIZED STEEL ANCHOR PLATE.

WORK THIS SHEET WITH SHEET 4.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-36-900

DRAWN BY CLS | PLANS CK'D. CBM

RAILING STEEL TYPE C3 DETAILS

SHEET 5 OF 5
786

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

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EARTHWORK - USH 10 / STH 42 'EB'

STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 2	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate Note 3
70+00	95.2	216.6					
70+25	98.7	258.9	90	220	90	293	-203
70+50	103.0	190.3	93	208	183	569	-386
70+75	111.1	39.5	99	106	282	711	-429
71+00	117.6	0.3	106	18	388	735	-347
71+25	124.4	0.0	112	0	500	736	-235
71+50	125.1	0.0	116	0	616	736	-120
71+75	115.2	0.1	111	0	727	736	-9
72+00	126.4	0.0	112	0	839	736	103
72+25	121.0	0.3	114	0	953	736	217
72+50	125.0	0.0	114	0	1,067	736	331
72+75	110.3	0.3	109	0	1,176	736	440
73+00	94.0	0.0	95	0	1,271	737	534
73+25	102.0	0.0	91	0	1,361	737	625
73+50	105.0	0.0	96	0	1,457	737	721
73+75	105.2	0.0	97	0	1,555	737	818
74+00	108.3	0.0	99	0	1,653	737	917
74+25	100.6	0.0	97	0	1,750	737	1,014
74+50	98.6	0.0	92	0	1,842	737	1,106
74+75	102.2	0.0	93	0	1,935	737	1,199
75+00	103.0	0.0	95	0	2,030	737	1,294
75+25	99.6	8.7	94	4	2,124	742	1,382
75+50	100.1	12.3	92	10	2,216	755	1,462
75+75	100.0	1.8	93	7	2,309	764	1,546
76+00	96.0	0.2	91	1	2,400	765	1,635
76+25	92.2	0.8	87	0	2,487	765	1,722
76+50	90.9	1.2	85	1	2,572	767	1,805
76+75	90.2	1.1	84	1	2,656	768	1,888
77+00	90.3	1.7	84	1	2,739	770	1,969
77+25	92.9	1.7	85	2	2,824	772	2,052
77+50	89.0	1.7	84	2	2,908	774	2,134
77+75	85.8	1.8	81	2	2,989	776	2,213
78+00	82.4	4.3	78	3	3,067	780	2,287
78+25	78.7	7.5	75	5	3,142	787	2,355
78+50	75.1	7.4	71	7	3,213	796	2,417
78+75	72.5	7.9	68	7	3,281	806	2,476
79+00	70.0	5.0	66	6	3,347	813	2,534
79+25	66.5	5.5	63	5	3,410	820	2,590
79+50	62.9	4.8	60	5	3,470	826	2,644
79+75	60.9	5.6	57	5	3,528	833	2,695
80+00	60.6	5.8	56	5	3,584	840	2,744
80+25	62.4	7.3	57	6	3,641	848	2,793
80+50	62.2	7.3	58	7	3,698	857	2,842
80+75	61.7	6.7	57	7	3,756	865	2,890
81+00	64.9	4.4	59	5	3,814	872	2,942

EARTHWORK - USH 10 / STH 42 'EB' (CONTINUED)

STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 2	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate Note 3
81+25	66.1	4.0	61	4	3,875	877	2,998
81+50	67.9	4.2	62	4	3,937	882	3,055
81+75	69.1	5.3	63	4	4,000	888	3,112
82+00	72.0	66.1	65	33	4,066	932	3,133
82+01.39	72.0	66.1	4	3	4,070	937	3,133
B-36-0029							
84+61.64	69.1	118.1	0	0	4,070	937	3,133
84+75	69.1	118.1	34	58	4,104	1,015	3,089
85+00	57.7	2.9	59	56	4,162	1,089	3,073
85+25	64.6	1.2	57	2	4,219	1,092	3,127
85+50	67.1	1.1	61	1	4,280	1,093	3,187
85+75	65.6	1.1	61	1	4,341	1,094	3,247
86+00	71.0	0.6	63	1	4,405	1,095	3,309
86+25	73.7	0.2	67	0	4,472	1,096	3,376
86+50	76.6	0.0	70	0	4,541	1,096	3,445
86+75	76.4	0.1	71	0	4,612	1,096	3,516
87+00	79.1	0.1	72	0	4,684	1,096	3,588
87+25	82.2	0.1	75	0	4,759	1,096	3,662
87+50	83.7	0.0	77	0	4,836	1,096	3,739
87+75	87.5	0.0	79	0	4,915	1,096	3,818
88+00	90.8	0.0	83	0	4,997	1,096	3,901
88+25	92.4	0.0	85	0	5,082	1,096	3,986
88+50	94.1	0.0	86	0	5,168	1,096	4,072
88+75	97.6	0.0	89	0	5,257	1,096	4,161
89+00	99.0	0.0	91	0	5,348	1,096	4,252
89+25	100.5	0.0	92	0	5,441	1,096	4,344
89+50	103.5	0.0	94	0	5,535	1,096	4,439
89+75	110.1	0.0	99	0	5,634	1,096	4,538
90+00	117.9	0.0	106	0	5,740	1,096	4,643
90+25	112.2	0.0	106	0	5,846	1,096	4,750
90+50	117.6	0.0	106	0	5,952	1,096	4,856
90+75	124.8	0.0	112	0	6,065	1,096	4,968
91+00	128.3	0.0	117	0	6,182	1,096	5,085
91+25	129.9	154.0	120	71	6,301	1,191	5,110
91+50	127.7	306.7	119	213	6,421	1,475	4,946
91+75	125.7	176.5	117	224	6,538	1,772	4,765
92+00	129.7	12.3	118	87	6,656	1,889	4,767
92+25	139.5	0.5	125	6	6,781	1,897	4,884
92+50	126.0	0.4	123	0	6,904	1,897	5,007
92+75	123.7	0.0	116	0	7,019	1,897	5,122
93+00	97.6	1.4	102	1	7,122	1,898	5,223
93+25	104.5	0.0	94	1	7,215	1,899	5,316
93+50	150.9	0.0	118	0	7,333	1,899	5,434
			7,333	1,428			

Notes:	
1 - Cut	Cut includes existing aspahlt and concrete
2 - Fill	Unexpanded
3 - Mass Ordinate	Cut - (Fill * Fill Factor)

EARTHWORK - USH 10 / STH 42 'WB'

STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 2	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate Note 3
70+00	70.90	107.89					
70+25	70.33	121.68	65	106	65	141	-76
70+50	69.03	201.63	65	150	130	340	-211
70+75	70.24	119.37	64	149	194	538	-344
71+00	78.48	50.12	69	78	263	642	-379
71+25	101.27	0.05	83	23	346	673	-327
71+50	79.87	0.00	84	0	430	673	-243
71+75	75.91	0.00	72	0	502	673	-171
72+00	89.41	0.00	77	0	579	673	-94
72+25	148.07	0.00	110	0	689	673	16
72+50	148.14	0.00	137	0	826	673	153
72+75	95.89	0.00	113	0	939	673	266
73+00	75.44	0.00	79	0	1,018	673	345
73+25	82.40	0.00	73	0	1,091	673	418
73+50	84.10	0.00	77	0	1,168	673	495
73+75	84.51	0.00	78	0	1,247	673	573
74+00	83.50	0.00	78	0	1,324	673	651
74+25	80.86	0.00	76	0	1,400	673	727
74+50	79.16	0.00	74	0	1,475	673	801
74+75	78.26	0.00	73	0	1,547	673	874
75+00	78.97	0.00	73	0	1,620	673	947
75+25	79.28	0.00	73	0	1,693	673	1,020
75+50	79.09	0.01	73	0	1,767	673	1,093
75+75	79.63	0.00	73	0	1,840	673	1,167
76+00	78.95	0.00	73	0	1,914	673	1,240
76+25	77.11	0.00	72	0	1,986	673	1,313
76+50	76.91	0.02	71	0	2,057	673	1,384
76+75	77.70	0.00	72	0	2,129	673	1,455
77+00	78.74	0.00	72	0	2,201	673	1,528
77+25	75.10	0.09	71	0	2,272	673	1,599
77+50	73.73	0.35	69	0	2,341	674	1,668
77+75	71.44	0.80	67	1	2,409	674	1,734
78+00	70.23	1.52	66	1	2,474	676	1,798
78+25	66.57	3.83	63	2	2,537	679	1,858
78+50	64.39	5.61	61	4	2,598	685	1,913
78+75	63.00	5.39	59	5	2,657	692	1,965
79+00	63.02	5.63	58	5	2,715	699	2,017
79+25	59.01	8.08	56	6	2,772	707	2,065
79+50	56.14	5.92	53	6	2,825	716	2,110
79+75	53.16	6.19	51	6	2,876	723	2,153
80+00	51.90	5.34	49	5	2,924	730	2,194
80+25	48.98	8.08	47	6	2,971	738	2,233
80+50	47.95	9.56	45	8	3,016	749	2,267
80+75	46.64	19.35	44	13	3,060	767	2,293
81+00	48.51	14.11	44	15	3,104	788	2,316

EARTHWORK - USH 10 / STH 42 'WB' (CONTINUED)

STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 2	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate Note 3
81+25	52.04	6.48	47	10	3,150	800	2,350
81+50	55.30	5.38	50	5	3,200	808	2,392
81+75	56.72	12.55	52	8	3,252	819	2,433
82+00	61.56	156.74	55	78	3,307	923	2,384
82+01.39	61.56	156.74	3	8	3,310	934	2,376
B-36-0029							
84+61.64	57.57	56.68	0	0	3,310	934	2,376
84+75	57.57	56.68	28	28	3,338	971	2,367
85+00	50.93	1.99	50	27	3,389	1,007	2,382
85+25	51.39	2.53	47	2	3,436	1,010	2,426
85+50	52.33	2.51	48	2	3,484	1,013	2,471
85+75	52.54	2.28	49	2	3,533	1,016	2,517
86+00	57.50	1.77	51	2	3,584	1,018	2,565
86+25	59.31	1.93	54	2	3,638	1,021	2,617
86+50	63.05	1.83	57	2	3,694	1,023	2,671
86+75	65.66	1.79	60	2	3,754	1,025	2,729
87+00	69.28	1.01	62	1	3,816	1,027	2,789
87+25	72.23	0.31	66	1	3,882	1,028	2,854
87+50	74.98	0.06	68	0	3,950	1,028	2,922
87+75	76.06	0.00	70	0	4,020	1,028	2,992
88+00	79.41	0.00	72	0	4,092	1,028	3,064
88+25	82.37	0.00	75	0	4,167	1,028	3,139
88+50	84.70	0.00	77	0	4,244	1,028	3,216
88+75	86.64	0.00	79	0	4,323	1,028	3,295
89+00	88.68	0.00	81	0	4,405	1,028	3,377
89+25	90.13	0.00	83	0	4,487	1,028	3,459
89+50	92.06	0.00	84	0	4,572	1,028	3,544
89+75	91.49	0.00	85	0	4,657	1,028	3,629
90+00	88.52	16.44	83	8	4,740	1,038	3,702
90+25	86.25	0.90	81	8	4,821	1,049	3,772
90+50	86.28	0.00	80	0	4,901	1,049	3,851
90+75	87.51	0.00	80	0	4,981	1,049	3,932
91+00	85.76	0.00	80	0	5,062	1,049	4,012
91+25	85.21	0.00	79	0	5,141	1,049	4,091
91+50	83.14	0.00	78	0	5,219	1,049	4,169
91+75	78.05	0.05	75	0	5,293	1,049	4,244
92+00	75.41	0.28	71	0	5,364	1,050	4,315
92+25	76.39	0.37	70	0	5,435	1,050	4,384
92+50	71.47	1.04	68	1	5,503	1,051	4,452
92+75	66.71	0.34	64	1	5,567	1,052	4,515
93+00	60.41	0.00	59	0	5,626	1,052	4,574
93+25	119.97	0.00	84	0	5,709	1,052	4,657
93+50	121.50	0.00	112	0	5,821	1,052	4,769
			5,821	791			

Notes:	
1 - Cut	Cut includes existing aspahlt and concrete
2 - Fill	Unexpanded
3 - Mass Ordinate	Cut - (Fill * Fill Factor)

EARTHWORK - USH 10 / STH 42

STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 2	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate Note 3
93+75	187.92	0.00					
94+00	155.52	4.51	159	2	159	3	156
94+25	166.64	1.89	149	3	308	7	301
94+50	177.33	0.87	159	1	467	8	459
94+75	170.82	1.54	161	1	629	10	619
95+00	166.03	1.19	156	1	785	12	773
95+25	161.62	1.54	152	1	936	13	923
95+50	153.76	1.00	146	1	1,082	15	1,067
95+75	152.10	0.59	142	1	1,224	16	1,208
96+00	158.85	0.80	144	1	1,368	17	1,351
96+25	161.44	1.29	148	1	1,516	18	1,498
96+50	158.15	2.36	148	2	1,664	20	1,644
96+75	149.15	3.47	142	3	1,806	24	1,782
97+00	141.41	5.19	135	4	1,941	29	1,912
97+25	140.09	2.83	130	4	2,071	34	2,037
97+50	142.88	2.36	131	2	2,202	37	2,165
97+75	143.98	1.89	133	2	2,335	40	2,295
98+00	151.42	0.31	137	1	2,472	41	2,430
98+25	151.09	0.78	140	1	2,612	42	2,570
98+50	152.50	0.86	141	1	2,752	43	2,709
98+75	146.23	0.65	138	1	2,891	44	2,847
99+00	173.79	1.48	148	1	3,039	45	2,994
99+25	242.57	0.61	193	1	3,232	46	3,185
99+50	202.32	0.01	206	0	3,437	47	3,391
99+75	194.43	2.84	184	1	3,621	49	3,573
100+00	185.72	0.15	176	1	3,797	50	3,747
100+25	190.30	1.60	174	1	3,971	51	3,920
100+50	190.61	1.33	176	1	4,148	53	4,094
100+75	190.64	0.02	177	1	4,324	54	4,270
101+00	177.64	0.00	170	0	4,495	54	4,440
101+25	176.43	0.00	164	0	4,659	54	4,604
101+50	174.68	0.07	163	0	4,821	54	4,767
101+75	169.53	0.17	159	0	4,980	54	4,926
102+00	173.37	0.71	159	0	5,139	55	5,084
102+25	171.04	0.07	159	0	5,299	55	5,243
102+50	168.73	1.18	157	1	5,456	56	5,400
102+75	180.12	0.00	162	1	5,617	57	5,561
103+00	267.61	0.00	207	0	5,825	57	5,768
103+25	178.94	0.00	207	0	6,031	57	5,975
103+50	167.16	1.67	160	1	6,192	58	6,134

EARTHWORK - USH 10 / STH 42 (CONTINUED)

STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 2	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate Note 3
103+75	177.18	0.15	159	1	6,351	59	6,292
104+00	182.14	0.07	166	0	6,517	59	6,458
104+25	176.93	0.15	166	0	6,684	59	6,624
104+50	173.93	0.06	162	0	6,846	59	6,787
104+75	170.35	0.53	159	0	7,006	60	6,946
105+00	161.40	0.37	154	0	7,159	60	7,099
105+25	162.61	0.52	150	0	7,309	61	7,248
105+50	164.88	0.45	152	0	7,461	61	7,399
105+75	164.06	0.39	152	0	7,613	62	7,551
106+00	159.32	0.18	150	0	7,763	62	7,700
106+25	147.23	0.00	142	0	7,905	62	7,842
106+50	275.95	0.00	196	0	8,101	62	8,038
106+75	215.07	0.03	227	0	8,328	62	8,265
107+00	164.41	0.09	176	0	8,504	62	8,441
107+25	166.61	2.84	153	1	8,657	64	8,593
107+50	242.01	0.00	189	1	8,846	66	8,780
107+75	203.57	0.00	206	0	9,052	66	8,986
108+00	174.09	0.01	175	0	9,227	66	9,161
108+25	174.95	0.00	162	0	9,389	66	9,323
108+50	165.72	0.00	158	0	9,546	66	9,480
108+75	158.75	0.14	150	0	9,697	66	9,631
109+00	154.82	0.81	145	0	9,842	67	9,775
109+25	151.09	1.47	142	1	9,983	68	9,915
109+50	142.17	2.16	136	2	10,119	70	10,049
109+75	173.09	1.00	146	1	10,265	72	10,193
110+00	222.32	1.95	183	1	10,448	74	10,374
110+25	138.79	0.43	167	1	10,615	76	10,540
110+50	141.25	0.45	130	0	10,745	76	10,669
110+75	158.16	0.18	139	0	10,884	77	10,807
111+00	159.95	0.11	147	0	11,031	77	10,954
111+25	157.34	0.18	147	0	11,178	77	11,101
111+50	158.97	0.27	146	0	11,324	77	11,247
111+75	155.90	0.37	146	0	11,470	78	11,392
112+00	164.22	0.04	148	0	11,618	78	11,540
112+25	157.36	0.05	149	0	11,767	78	11,689
112+50	158.67	0.00	146	0	11,913	78	11,836
112+75	159.81	0.00	147	0	12,061	78	11,983
113+00	161.74	0.00	149	0	12,210	78	12,132
113+25	161.55	0.00	150	0	12,359	78	12,282
113+50	160.00	0.26	149	0	12,508	78	12,430

Notes:	
1 - Cut	Cut includes existing aspahlt and concrete
2 - Fill	Unexpanded
3 - Mass Ordinate	Cut - (Fill * Fill Factor)

EARTHWORK - USH 10 / STH 42 (CONTINUED)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
113+75	164.16	0.00	150	0	12,658	78	12,580
114+00	168.63	0.00	154	0	12,812	78	12,734
114+25	174.60	0.00	159	0	12,971	78	12,893
114+50	181.32	0.00	165	0	13,136	78	13,058
114+75	206.05	0.00	179	0	13,315	78	13,237
115+00	207.61	0.00	192	0	13,507	78	13,429
115+25	206.14	0.18	192	0	13,699	78	13,620
115+50	204.24	0.00	190	0	13,888	78	13,810
115+75	203.78	0.06	189	0	14,077	78	13,999
116+00	203.16	0.21	188	0	14,266	79	14,187
116+25	199.45	0.41	186	0	14,452	79	14,373
116+50	190.31	1.20	180	1	14,633	80	14,553
116+75	189.97	0.42	176	1	14,809	81	14,728
117+00	189.15	0.32	176	0	14,984	81	14,903
117+25	183.18	0.58	172	0	15,157	82	15,075
117+50	178.71	3.11	168	2	15,324	84	15,240
117+75	198.34	0.00	175	1	15,499	86	15,412
118+00	302.18	0.00	232	0	15,730	86	15,644
118+25	338.76	0.00	297	0	16,027	86	15,941
118+50	285.97	0.00	289	0	16,316	86	16,230
118+75	206.40	0.01	228	0	16,544	86	16,458
119+00	198.36	0.35	187	0	16,732	86	16,645
119+25	203.37	0.00	186	0	16,918	87	16,831
119+50	202.43	0.00	188	0	17,106	87	17,019
119+75	202.25	0.23	187	0	17,293	87	17,206
120+00	200.48	0.00	186	0	17,479	87	17,392
120+25	200.25	0.00	186	0	17,665	87	17,578
120+50	196.85	0.12	184	0	17,849	87	17,762
120+75	200.80	0.01	184	0	18,033	87	17,946
121+00	193.82	0.63	183	0	18,216	88	18,128
121+25	191.62	0.06	178	0	18,394	88	18,306
121+50	180.18	0.36	172	0	18,566	88	18,478
121+75	145.95	0.00	151	0	18,717	88	18,629
122+00	266.01	0.00	191	0	18,908	88	18,819
122+25	197.29	0.00	214	0	19,122	88	19,034
122+50	150.12	0.93	161	0	19,283	89	19,194
122+75	153.64	0.90	141	1	19,424	90	19,334
123+00	159.95	0.03	145	0	19,569	91	19,478
123+25	162.61	0.15	149	0	19,718	91	19,627
123+50	167.78	0.01	153	0	19,871	91	19,780

EARTHWORK - USH 10 / STH 42 (CONTINUED)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
123+75	168.34	0.00	156	0	20,027	91	19,936
124+00	174.75	0.00	159	0	20,186	91	20,095
124+25	180.40	0.00	164	0	20,350	91	20,259
124+50	178.93	0.10	166	0	20,516	91	20,425
124+75	169.19	0.82	161	0	20,678	92	20,586
125+00	160.41	0.06	153	0	20,830	92	20,738
125+25	161.70	0.00	149	0	20,979	92	20,887
125+50	289.38	0.00	209	0	21,188	92	21,096
125+75	186.41	0.00	220	0	21,408	92	21,316
126+00	151.09	0.97	156	0	21,565	93	21,472
126+25	154.33	1.69	141	1	21,706	94	21,612
126+50	155.14	1.00	143	1	21,849	96	21,753
126+75	160.19	0.99	146	1	21,995	97	21,898
127+00	156.27	0.40	147	1	22,142	98	22,044
127+25	157.83	0.00	145	0	22,287	98	22,189
127+50	153.66	0.12	144	0	22,431	98	22,333
127+75	160.02	0.20	145	0	22,577	99	22,478
128+00	214.37	0.00	173	0	22,750	99	22,651
128+25	269.37	0.00	224	0	22,974	99	22,875
128+50	138.74	0.27	189	0	23,163	99	23,064
128+75	146.71	0.35	132	0	23,295	99	23,196
129+00	147.33	2.22	136	1	23,431	101	23,330
129+25	144.44	1.97	135	2	23,566	103	23,463
129+50	141.91	1.40	133	2	23,699	105	23,593
129+75	140.11	2.39	131	2	23,829	108	23,722
130+00	144.54	0.69	132	1	23,961	110	23,851
130+25	144.92	0.82	134	1	24,095	111	23,985
130+50	144.63	1.32	134	1	24,229	112	24,117
130+75	188.81	0.00	154	1	24,384	113	24,271
131+00	266.51	0.00	211	0	24,594	113	24,482
131+25	162.48	0.00	199	0	24,793	113	24,680
131+50	143.06	1.20	141	1	24,935	114	24,821
131+75	148.83	1.29	135	1	25,070	115	24,955
132+00	154.59	0.39	140	1	25,210	116	25,094
132+25	153.90	0.20	143	0	25,353	116	25,236
132+50	161.66	0.02	146	0	25,499	117	25,382
132+75	176.72	0.01	157	0	25,656	117	25,539
133+00	188.12	0.00	169	0	25,825	117	25,708
133+25	194.16	0.01	177	0	26,002	117	25,885
133+50	179.48	3.90	173	2	26,175	119	26,056

Notes:	
1 - Cut	Cut includes existing aspahlt and concrete
2 - Fill	Unexpanded
3 - Mass Ordinate	Cut - (Fill * Fill Factor)

EARTHWORK - USH 10 / STH 42 (CONTINUED)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut	Fill	Cut 1.00	Expanded Fill 1.33	Mass Ordinate
			Note 1	Note 2	Note 1		Note 3
133+75	234.01	2.53	191	3	26,366	123	26,243
134+00	182.62	3.24	193	3	26,559	127	26,432
134+25	185.69	0.27	171	2	26,729	129	26,601
134+50	288.90	0.01	220	0	26,949	129	26,820
134+75	229.88	0.00	240	0	27,189	129	27,060
135+00	185.63	0.00	192	0	27,382	129	27,253
135+25	133.44	24.03	148	11	27,529	144	27,386
135+50	129.26	24.99	122	23	27,651	174	27,477
135+75	130.02	19.13	120	20	27,771	201	27,570
136+00	125.09	21.04	118	19	27,889	226	27,663
136+25	124.58	13.85	116	16	28,005	247	27,757
136+50	231.99	14.72	165	13	28,170	265	27,905
136+75	135.49	16.18	170	14	28,340	284	28,056
137+00	137.01	13.23	126	14	28,466	302	28,164
137+25	142.85	10.99	130	11	28,596	317	28,279
137+50	146.70	10.28	134	10	28,730	330	28,400
137+75	146.57	10.22	136	9	28,866	343	28,523
138+00	146.81	9.41	136	9	29,001	355	28,647
138+25	146.23	8.97	136	9	29,137	366	28,771
138+50	154.37	5.77	139	7	29,276	375	28,901
138+75	163.57	2.75	147	4	29,423	380	29,043
139+00	190.87	0.00	164	1	29,587	382	29,205
139+25	191.89	0.00	177	0	29,765	382	29,383
139+50	196.38	0.00	180	0	29,944	382	29,562
139+75	196.05	0.00	182	0	30,126	382	29,744
140+00	196.30	0.00	182	0	30,308	382	29,926
140+25	196.39	0.00	182	0	30,490	382	30,107
140+50	199.90	0.00	183	0	30,673	382	30,291
140+75	196.73	0.01	184	0	30,857	382	30,475
141+00	189.83	0.21	179	0	31,036	382	30,653
141+25	184.59	0.00	173	0	31,209	382	30,827
141+50	284.72	0.00	217	0	31,426	382	31,044
141+75	227.55	0.00	237	0	31,663	382	31,281
142+00	161.57	1.14	180	1	31,844	383	31,460
142+25	177.27	1.14	157	1	32,000	384	31,616
142+50	182.33	0.49	166	1	32,167	385	31,781
142+75	185.48	0.30	170	0	32,337	386	31,951
143+00	187.87	0.35	173	0	32,510	386	32,124
143+25	192.18	0.01	176	0	32,686	387	32,299
143+50	186.92	0.20	176	0	32,861	387	32,475

EARTHWORK - USH 10 / STH 42 (CONTINUED)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut	Fill	Cut 1.00	Expanded Fill 1.33	Mass Ordinate
			Note 1	Note 2	Note 1		Note 3
143+75	186.63	0.37	173	0	33,034	387	32,647
144+00	194.62	0.07	177	0	33,211	387	32,824
144+25	192.83	0.05	179	0	33,390	387	33,003
144+50	191.62	0.23	178	0	33,568	388	33,181
144+75	186.68	0.30	175	0	33,743	388	33,356
145+00	190.11	0.03	174	0	33,918	388	33,530
145+25	217.86	0.18	189	0	34,107	388	33,719
145+50	170.99	0.18	180	0	34,287	388	33,898
145+75	183.00	0.26	164	0	34,451	389	34,062
146+00	189.80	0.08	173	0	34,623	389	34,234
146+25	194.51	0.00	178	0	34,801	389	34,412
146+50	198.18	0.00	182	0	34,983	389	34,594
146+75	201.51	0.00	185	0	35,168	389	34,779
147+00	204.66	0.00	188	0	35,356	389	34,967
147+25	200.03	0.00	187	0	35,543	389	35,154
147+50	190.99	0.00	181	0	35,724	389	35,335
147+75	180.16	0.44	172	0	35,896	389	35,507
148+00	122.99	1.13	140	1	36,037	390	35,646
148+25	290.43	0.00	191	1	36,228	391	35,837
148+50	233.18	0.00	242	0	36,470	391	36,080
148+75	195.12	0.01	198	0	36,669	391	36,278
149+00	215.03	0.91	190	0	36,859	391	36,467
149+25	218.09	0.38	201	1	37,059	392	36,667
149+50	209.03	0.31	198	0	37,257	393	36,864
149+75	197.65	0.94	188	1	37,445	393	37,052
150+00	189.74	0.96	179	1	37,624	395	37,230
150+25	187.63	1.27	175	1	37,799	396	37,403
150+50	181.95	2.04	171	2	37,970	398	37,572
150+75	179.45	2.00	167	2	38,138	400	37,737
151+00	174.62	1.93	164	2	38,301	403	37,899
151+25	244.94	0.00	194	1	38,496	404	38,092
151+50	364.85	0.00	282	0	38,778	404	38,374
151+75	231.53	0.00	276	0	39,054	404	38,650
152+00	123.77	1.25	164	1	39,219	405	38,814
152+25	130.24	2.71	118	2	39,336	407	38,929
			39,336	306			

Notes:	
1 - Cut	Cut includes existing aspahlt and concrete
2 - Fill	Unexpanded
3 - Mass Ordinate	Cut - (Fill * Fill Factor)

EARTHWORK - FLEETWOOD DR

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
10+64	178.10	0.00					
10+75	157.40	0.00	68	0	68	0	68
			68	0			

EARTHWORK - MENCHL DR

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
9+10	81.55	0.02					
9+25	38.47	0.93	33	0	33	0	33
9+50	42.31	0.00	37	0	71	1	70
9+64	42.35	0.69	22	0	93	1	92
			93	1			

EARTHWORK - N 23RD ST (SOUTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
9+40	99.99	0.00					
9+50	102.15	0.00	37	0	37	0	37
			37	0			

EARTHWORK - N 21ST ST (SOUTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
9+35	99.81	0.00					
9+48	108.35	0.00	50	0	50	0	50
			50	0			

EARTHWORK - N 23RD ST (NORTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
10+82	124.11	0.02					
10+95	121.08	0.25	59	0	59	0	59
			59	0			

EARTHWORK - N 21ST ST (NORTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
10+76	103.93	0.00					
11+00	99.19	0.06	90	0	90	0	90
			90	0			

Notes:	
1 - Cut	Cut includes existing aspahlt and concrete
2 - Fill	Unexpanded
3 - Mass Ordinate	Cut - (Fill * Fill Factor)

EARTHWORK - N 20TH ST

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
9+40	100.14	0.00					
9+50	97.98	0.08	37	0	37	0	37
			37	0			

EARTHWORK - ELM ST

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
10+51	90.29	0.10					
10+65	84.14	0.00	45	0	45	0	45
			45	0			

EARTHWORK - PARK ROW BLVD, SB

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
10+74	75.15	0.00					
10+85	78.78	0.00	31	0	31	0	31
			31	0			

EARTHWORK - N 18TH ST (SOUTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
9+00	144.78	0.04					
9+25	168.51	0.11	145	0	145	0	145
9+37	167.51	2.66	75	1	220	1	219
			220	1			

EARTHWORK - PARK ROW BLVD, NB

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
10+50	82.10	0.00					
10+60	80.73	0.00	30	0	30	0	30
			30	0			

EARTHWORK - N 18TH ST (NORTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
10+75	124.20	0.00					
10+90	110.99	0.19	65	0	65	0	65
			65	0			

Notes:	
1 - Cut	Cut includes existing aspahlt and concrete
2 - Fill	Unexpanded
3 - Mass Ordinate	Cut - (Fill * Fill Factor)

EARTHWORK - N 17TH ST (SOUTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
9+30	83.99	0.31					
9+49	77.61	0.55	57	1	57	1	56
			57	1			

EARTHWORK - N 16TH ST (NORTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
10+75	88.04	0.28					
10+85	90.15	0.00	33	0	33	0	33
			33	0			

EARTHWORK - N 17TH ST (NORTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
10+75	90.00	0.00					
10+85	86.14	0.13	33	0	33	0	33
			33	0			

EARTHWORK - N 15TH ST (SOUTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
9+35	84.70	0.00					
9+49	79.03	1.40	42	0	42	0	42
			42	0			

EARTHWORK - N 16TH ST (SOUTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
9+35	86.73	0.00					
9+49	84.81	0.04	44	0	44	0	44
			44	0			

EARTHWORK - N 15TH ST (NORTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
10+75	90.45	1.28					
11+00	85.62	0.06	82	1	82	1	81
			82	1			

Notes:	
1 - Cut	Cut includes existing aspahlt and concrete
2 - Fill	Unexpanded
3 - Mass Ordinate	Cut - (Fill * Fill Factor)

EARTHWORK - N 14TH ST (SOUTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
9+30	85.99	0.19					
9+49	90.54	0.00	62	0	62	0	62
			62	0			

EARTHWORK - MENASHA AVE (SOUTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
8+85	103.04	0.00					
9+00	103.12	0.57	57	0	57	0	57
9+25	103.29	3.00	96	2	153	2	150
9+50	53.79	6.25	73	4	226	8	217
9+75	61.33	8.13	53	7	279	17	262
9+77.6	61.85	0.71	6	0	285	17	268
			285	13			

EARTHWORK - N 14TH ST (NORTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
10+75	97.91	0.46					
10+85	101.03	0.00	37	0	37	0	37
			37	0			

EARTHWORK - MENASHA AVE (NORTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
10+43.7	71.49	10.83					
10+61	164.72	5.88	76	5	76	7	69
10+75	161.14	3.73	84	2	160	10	150
11+00	148.29	4.44	143	4	303	15	288
11+25	141.33	2.54	134	3	437	20	418
11+50	136.04	0.99	128	2	566	22	544
11+75	129.54	0.36	123	1	689	23	666
12+00	127.05	0.67	119	0	808	23	784
12+10.5	124.91	0.22	49	0	857	24	833
			857	18			

EARTHWORK - N 13TH ST

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
9+35	85.00	0.00					
9+50	90.20	1.29	49	0	49	0	49
			49	0			

EARTHWORK - N 12TH ST (SOUTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
8+15	83.94	0.70					
8+25	74.58	0.07	29	0	29	0	29
8+50	178.15	0.00	117	0	146	0	146
8+75	109.83	0.00	133	0	280	0	279
9+00	122.11	0.00	107	0	387	0	387
9+25	102.28	5.07	104	2	491	3	488
9+49	100.06	5.26	90	5	581	9	572
			581	7			

Notes:	
1 - Cut	Cut includes existing aspahlt and concrete
2 - Fill	Unexpanded
3 - Mass Ordinate	Cut - (Fill * Fill Factor)

EARTHWORK - N 12TH ST (NORTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
10+75	91.80	0.47					
10+85	89.52	0.19	34	0	34	0	34
			34	0			

EARTHWORK - N 10TH ST

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
9+35	94.30	0.06					
9+49	101.52	0.00	51	0	51	0	51
			51	0			

EARTHWORK - N 11TH ST (SOUTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
9+35	104.38	0.00					
9+49	106.11	0.00	55	0	55	0	55
			55	0			

EARTHWORK - N 9TH ST (SOUTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
9+00	85.01	0.13					
9+25	107.65	0.00	89	0	89	0	89
9+49	116.40	0.00	100	0	189	0	189
			189	0			

EARTHWORK - N 11TH ST (NORTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
10+80	107.83	0.10					
11+00	112.64	0.00	82	0	82	0	82
			82	0			

EARTHWORK - N 9TH ST (NORTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
10+75	106.56	0.00					
11+00	90.66	0.60	91	0	91	0	91
11+25	80.82	1.03	79	1	171	1	170
			171	1			

Notes:	
1 - Cut	Cut includes existing aspahlt and concrete
2 - Fill	Unexpanded
3 - Mass Ordinate	Cut - (Fill * Fill Factor)

EARTHWORK - N 8TH ST (SOUTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
8+50	103.78	0.00					
8+75	105.40	0.36	97	0	97	0	97
9+00	112.99	0.37	101	0	198	1	197
9+25	133.94	0.34	114	0	312	1	311
9+39	141.14	0.00	71	0	384	1	382
9+50	57.59	0.03	40	0	424	1	423
			424	1			

EARTHWORK - N 8TH ST (NORTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
10+85	122.55	0.64					
11+00	122.94	0.14	68	0	68	0	68
11+25	120.72	0.19	113	0	181	0	181
11+50	115.95	0.00	110	0	291	1	290
			291	0			

Notes:	
1 - Cut	Cut includes existing aspahlt and concrete
2 - Fill	Unexpanded
3 - Mass Ordinate	Cut - (Fill * Fill Factor)

EARTHWORK - STH 42

STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 2	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate Note 3
152+25	130.24	2.71					
152+50	139.78	1.02	125	2	125	2	123
152+75	134.00	3.04	127	2	252	5	247
153+00	131.93	4.47	123	3	375	9	365
153+25	127.77	4.02	120	4	495	14	481
153+50	133.41	1.36	121	2	616	18	598
153+75	133.84	1.52	124	1	740	19	720
154+00	144.24	1.00	129	1	869	21	847
154+25	140.00	0.73	132	1	1,000	22	978
154+50	146.07	0.19	132	0	1,133	23	1,110
154+75	144.71	0.27	135	0	1,267	23	1,244
155+00	139.63	1.19	132	1	1,399	24	1,375
155+25	129.12	1.84	124	1	1,523	26	1,498
155+50	201.25	0.00	153	1	1,676	27	1,649
155+75	144.79	0.00	160	0	1,836	27	1,810
156+00	159.49	1.14	141	1	1,977	28	1,950
156+25	253.28	0.00	191	1	2,168	28	2,140
156+50	125.51	0.00	175	0	2,344	28	2,315
156+75	140.82	0.60	123	0	2,467	29	2,438
157+00	148.04	1.83	134	1	2,601	30	2,571
157+25	142.84	2.29	135	2	2,735	33	2,703
157+50	139.35	2.52	131	2	2,866	36	2,830
157+75	136.82	3.73	128	3	2,994	39	2,954
158+00	136.01	3.06	126	3	3,120	44	3,077
158+25	136.55	5.02	126	4	3,246	49	3,198
158+50	140.70	2.46	128	3	3,375	53	3,322
158+75	141.10	1.65	130	2	3,505	56	3,449
159+00	154.03	0.15	137	1	3,642	57	3,585
159+25	149.43	2.88	140	1	3,782	59	3,724
159+50	125.85	2.58	127	3	3,910	62	3,848
159+75	269.86	0.00	183	1	4,093	64	4,029
160+00	219.78	0.00	227	0	4,320	64	4,256
160+25	115.03	2.72	155	1	4,475	65	4,409
160+50	133.74	4.69	115	3	4,590	70	4,520
160+75	134.58	3.96	124	4	4,714	75	4,639
161+00	132.28	5.55	124	4	4,838	81	4,757
161+25	133.38	5.69	123	5	4,961	88	4,873
161+50	134.83	5.30	124	5	5,085	95	4,990
161+75	138.45	5.61	127	5	5,211	101	5,110
162+00	137.86	3.95	128	4	5,339	107	5,232

EARTHWORK - STH 42 (CONTINUED)

STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 2	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate Note 3
162+25	139.71	4.71	129	4	5,468	113	5,355
162+50	137.29	4.58	128	4	5,596	118	5,478
162+75	136.42	4.42	127	4	5,723	124	5,599
163+00	127.40	2.78	122	3	5,845	128	5,716
163+25	133.59	0.64	121	2	5,966	131	5,835
163+50	206.23	0.67	157	1	6,123	131	5,992
163+75	166.94	0.84	173	1	6,296	132	6,163
164+00	133.18	3.87	139	2	6,435	135	6,300
164+25	133.51	5.27	123	4	6,558	141	6,417
164+50	135.15	4.83	124	5	6,683	147	6,536
164+75	137.42	5.20	126	0	6,809	147	6,662
165+00	138.08	6.12	128	5	6,936	154	6,782
165+25	137.55	3.51	128	4	7,064	160	6,904
165+50	139.06	4.01	128	3	7,192	165	7,027
165+75	139.80	5.42	129	4	7,321	170	7,151
166+00	135.90	6.10	128	5	7,449	177	7,271
166+25	136.04	4.19	126	5	7,575	184	7,391
166+50	133.54	3.78	125	4	7,699	189	7,511
166+75	136.07	4.75	125	4	7,824	194	7,630
167+00	132.34	4.79	124	4	7,948	200	7,749
167+25	137.43	4.47	125	4	8,073	206	7,868
167+50	134.14	5.62	126	5	8,199	212	7,987
167+75	132.87	4.85	124	5	8,323	218	8,105
168+00	133.36	7.89	123	6	8,446	226	8,220
168+25	134.03	6.88	124	7	8,570	235	8,335
168+50	136.09	4.86	125	5	8,695	242	8,452
168+75	139.75	5.14	128	5	8,822	248	8,574
169+00	137.72	3.46	128	4	8,951	254	8,697
169+25	145.05	3.56	131	3	9,082	258	8,824
169+50	147.68	3.59	136	3	9,217	262	8,955
169+75	142.67	3.12	134	3	9,352	267	9,085
170+00	143.61	3.07	133	3	9,484	270	9,214
170+25	150.70	0.55	136	2	9,621	273	9,348
170+50	148.51	0.61	139	1	9,759	273	9,486
170+75	156.71	0.39	141	0	9,900	274	9,626
171+00	155.46	0.55	145	0	10,045	275	9,770
171+25	150.57	0.44	142	0	10,187	275	9,911
171+50	149.40	0.51	139	0	10,325	276	10,050
171+75	150.46	0.26	139	0	10,464	276	10,188
172+00	149.19	0.43	139	0	10,603	277	10,326

Notes:	
1 - Cut	Cut includes existing aspahlt and concrete
2 - Fill	Unexpanded
3 - Mass Ordinate	Cut - (Fill * Fill Factor)

EARTHWORK - STH 42 (CONTINUED)

	AREA (SF)		Incremental Vol (CY)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
172+25	150.55	1.05	139	0	10,742	277	10,465
172+50	152.10	0.69	140	1	10,882	278	10,604
172+75	153.56	0.00	142	0	11,023	278	10,745
173+00	154.19	0.09	142	0	11,166	278	10,888
173+25	150.34	4.85	141	2	11,307	281	11,026
173+50	151.12	12.72	140	8	11,446	292	11,154
173+75	147.50	13.11	138	12	11,585	308	11,277
174+00	146.94	1.43	136	7	11,721	317	11,404
174+25	146.26	0.52	136	1	11,857	318	11,539
174+50	142.95	1.02	134	1	11,991	319	11,672
174+75	138.81	1.80	130	1	12,121	321	11,800
175+00	133.35	2.73	126	2	12,247	324	11,923
175+25	129.20	4.04	122	3	12,369	328	12,041
175+50	131.79	3.35	121	3	12,489	332	12,157
175+75	136.71	2.97	124	3	12,614	336	12,278
176+00	143.45	1.77	130	2	12,743	339	12,404
176+25	148.19	1.94	135	2	12,878	341	12,537
176+50	154.44	1.12	140	1	13,019	343	12,675
176+75	160.17	1.17	146	1	13,164	345	12,820
177+00	163.58	0.75	150	1	13,314	346	12,968
177+25	166.59	0.54	153	1	13,467	347	13,120
177+50	164.08	0.66	153	1	13,620	347	13,273
177+75	163.74	0.35	152	0	13,772	348	13,424
178+00	164.62	0.04	152	0	13,924	348	13,576
178+25	166.30	0.00	153	0	14,077	348	13,729
178+50	166.09	0.00	154	0	14,231	348	13,883
178+75	168.15	0.04	155	0	14,386	348	14,037
179+00	173.77	0.00	158	0	14,544	348	14,196
179+25	184.51	0.00	166	0	14,710	348	14,362
179+50	172.46	0.03	165	0	14,875	348	14,527
179+75	173.91	0.00	160	0	15,036	348	14,687
180+00	170.99	0.10	160	0	15,195	348	14,847
180+25	170.32	0.00	158	0	15,353	349	15,005
180+50	170.62	0.00	158	0	15,511	349	15,163
181+00	150.35	2.19	297	2	15,808	351	15,457
181+25	138.11	3.44	134	3	15,942	355	15,587
181+50	127.69	7.51	123	5	16,065	361	15,703
181+75	124.48	8.49	117	7	16,182	371	15,810
182+00	122.55	7.89	114	8	16,296	381	15,915
182+25	123.57	6.66	114	0	16,410	381	16,029

EARTHWORK - STH 42 (CONTINUED)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
182+50	120.06	10.38	113	8	16,523	392	16,131
182+75	117.18	13.76	110	11	16,633	407	16,226
183+00	119.51	13.68	110	13	16,742	424	16,318
183+25	118.22	14.59	110	13	16,852	441	16,411
183+50	117.64	15.79	109	14	16,961	460	16,502
183+75	112.37	17.40	106	15	17,068	480	16,588
184+00	131.19	5.97	113	11	17,181	495	16,686
184+25	194.49	10.45	151	8	17,331	505	16,827
184+50	147.88	9.56	159	9	17,490	517	16,973
184+75	115.70	16.87	122	12	17,612	533	17,079
185+00	125.21	21.34	112	18	17,723	557	17,167
185+25	133.13	18.36	120	18	17,843	581	17,262
185+50	134.51	14.72	124	15	17,967	602	17,365
185+75	137.97	10.75	126	12	18,093	617	17,476
			18,093	464			

Notes:	
1 - Cut	Cut includes existing aspahlt and concrete
2 - Fill	Unexpanded
3 - Mass Ordinate	Cut - (Fill * Fill Factor)

EARTHWORK - STH 42 'EB'

STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 2	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate Note 3
186+00	68.65	1.47					
186+25	68.97	0.01	64	1	64	1	63
186+50	69.53	0.39	64	0	128	1	127
186+75	71.14	3.65	65	2	193	4	189
187+00	72.06	10.71	66	7	259	12	247
187+25	70.69	17.44	66	13	325	30	296
187+50	67.25	29.20	64	22	389	59	331
187+75	61.33	43.55	60	34	449	103	345
188+00	43.08	93.91	48	64	497	188	309
188+25	27.25	119.45	33	99	530	319	210
188+50	19.54	127.80	22	114	551	472	80
188+75	21.81	156.34	19	132	570	647	-76
188+96.86 ROUNDABOUT	25.91	139.53	19	120	590	806	-216
190+44.26	33.45	0.00	0	0	590	806	-216
190+50	38.89	0.00	8	0	597	806	-208
190+75	46.32	61.62	39	29	637	844	-207
191+00	63.34	58.67	51	56	688	918	-230
191+25	79.35	51.24	66	51	754	986	-232
191+50	85.05	33.11	76	39	830	1,037	-208
191+75	89.49	16.27	81	23	911	1,068	-157
192+00	93.10	8.38	85	11	995	1,083	-88
192+25	85.22	6.35	83	7	1,078	1,092	-14
192+50	80.61	5.66	77	6	1,154	1,100	55
192+75	77.44	5.88	73	5	1,228	1,107	121
193+00	74.93	9.44	71	7	1,298	1,116	182
193+25	76.99	5.38	70	7	1,369	1,125	243
193+50	81.61	3.32	73	4	1,442	1,131	311
193+75	86.43	2.20	78	3	1,520	1,134	386
194+00	88.73	1.08	81	2	1,601	1,136	465
194+25	89.07	0.91	82	1	1,683	1,137	546
194+50	94.57	0.82	85	1	1,768	1,138	630
194+75	95.65	1.07	88	1	1,856	1,139	717
194+88.66	87.85	0.00	46	0	1,903	1,140	763
			1,903	857			

EARTHWORK - STH 42 'WB'

STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 2	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate Note 3
186+00	77.94	5.33					
186+25	82.98	2.80	75	4	75	5	69
186+50	83.83	3.04	77	3	152	9	143
186+75	81.21	3.09	76	3	228	12	216
187+00	80.46	4.22	75	3	303	17	286
187+25	82.69	4.37	76	4	379	22	356
187+50	71.85	5.01	72	4	450	28	422
187+75	63.74	7.24	63	6	513	35	477
188+00	51.82	15.43	53	10	566	49	517
188+25	52.75	20.04	48	16	615	71	543
188+50	54.25	34.20	50	25	664	105	560
188+75	66.72	48.34	56	38	720	156	565
189+00	73.21	4.07	65	24	785	188	597
189+00.95 ROUNDABOUT	73.44	4.10	3	0	788	188	600
190+41.8	11.53	37.62	0	0	788	188	600
190+50	11.66	37.71	4	11	791	203	588
190+75	21.33	51.07	15	41	806	258	549
191+00	33.95	58.42	26	51	832	325	507
191+25	35.17	60.14	32	55	864	398	466
191+50	29.33	55.34	30	53	894	469	425
191+75	25.94	34.41	26	42	919	525	395
192+00	29.01	29.90	25	30	945	564	381
192+25	34.69	27.66	29	27	974	600	375
192+50	40.61	29.83	35	27	1,009	635	374
192+75	51.27	21.85	43	24	1,052	667	385
193+00	58.27	15.89	51	17	1,103	690	412
193+25	70.69	5.74	60	10	1,162	703	459
193+50	82.38	3.27	71	4	1,233	709	524
193+75	91.22	0.61	80	2	1,313	711	602
194+00	94.24	1.22	86	1	1,399	713	687
194+25	107.92	0.38	94	1	1,493	714	779
194+50	39.30	0.00	68	0	1,561	714	847
194+75	39.66	0.00	37	0	1,598	714	884
195+00	41.00	0.00	37	0	1,635	714	921
195+25	36.22	0.00	36	0	1,671	714	957
195+50	39.25	0.00	35	0	1,706	714	992
195+75	37.53	0.00	36	0	1,741	714	1,027
196+00	27.71	0.00	30	0	1,771	714	1,058
196+25	18.72	0.00	21	0	1,793	714	1,079
196+49.62	11.47	0.00	14	0	1,807	714	1,093

Notes:	
1 - Cut	Cut includes existing aspahlt and concrete
2 - Fill	Unexpanded
3 - Mass Ordinate	Cut - (Fill * Fill Factor)

EARTHWORK - W. LINCOLN BLVD (SOUTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
9+10	75.11	0.08					
9+25	68.47	1.79	40	1	40	1	39
9+48.65	62.07	1.98	57	2	97	3	94
			97	3			

EARTHWORK - N 6TH ST (SOUTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
9+35	89.93	0.07					
9+49	93.48	0.75	48	0	48	0	48
			48	0			

EARTHWORK - W. LINCOLN BLVD (NORTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
10+75	75.41	0.00					
10+85	71.37	0.03	27	0	27	0	27
			27	0			

EARTHWORK - N 6TH ST (NORTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
10+75	84.46	0.48					
11+00	86.21	0.27	79	0	79	0	79
			79	0			

EARTHWORK - E. LINCOLN BLVD (SOUTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
9+10	70.91	0.00					
9+25	72.39	0.40	40	0	40	0	40
9+49	75.28	0.41	66	0	105	0	105
			105	0			

EARTHWORK - N 5TH ST

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
10+51	96.58	0.00					
10+60	94.07	0.00	32	0	32	0	32
			32	0			

EARTHWORK - E. LINCOLN BLVD (NORTH)

	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
STATION	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1.33	Mass Ordinate Note 3
10+75	74.59	0.08					
10+85	77.36	0.02	28	0	28	0	28
			28	0			

Notes:	
1 - Cut	Cut includes existing aspahlt and concrete
2 - Fill	Unexpanded
3 - Mass Ordinate	Cut - (Fill * Fill Factor)

EARTHWORK - ROUNDABOUT CIRCLE

STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 2	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate Note 3
00+00	52.50	227.69					
00+25	5.80	232.12	27	213	27	283	-256
00+50	1.89	214.61	4	207	31	558	-528
00+75	15.41	201.00	8	192	39	814	-776
01+25	38.28	196.71	25	184	63	1,059	-996
01+25	30.24	189.32	32	179	95	1,297	-1,202
01+50	49.59	187.61	37	175	132	1,529	-1,397
01+75	60.23	202.85	51	181	183	1,769	-1,586
02+00	35.71	182.75	44	179	227	2,007	-1,779
02+25	44.79	160.83	37	159	265	2,218	-1,954
02+50	39.00	188.30	39	162	303	2,433	-2,130
02+75	0.00	232.49	18	195	321	2,692	-2,371
03+00	63.51	240.64	29	219	351	2,984	-2,633
03+25	92.59	232.49	72	219	423	3,275	-2,852
03+50	109.69	225.32	94	212	517	3,557	-3,040
03+75	55.83	227.22	77	210	593	3,835	-3,242
03+76.99	91.66	228.89	5	17	599	3,858	-3,259
			599	2,901			

EARTHWORK - MARITIME DR, MEDIAN EAST

STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 2	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate Note 3
12+50	54.08	0.46					
12+75	55.53	4.21	51	2	51	3	48
13+00	54.63	8.60	51	6	102	11	91
13+25	61.12	10.59	54	9	155	23	133
13+50	62.31	9.30	57	9	212	35	178
13+75	67.86	7.31	60	8	273	45	228
14+00	70.19	2.68	64	5	337	51	285
14+14.67	58.54	1.68	35	1	372	53	319
			372	40			

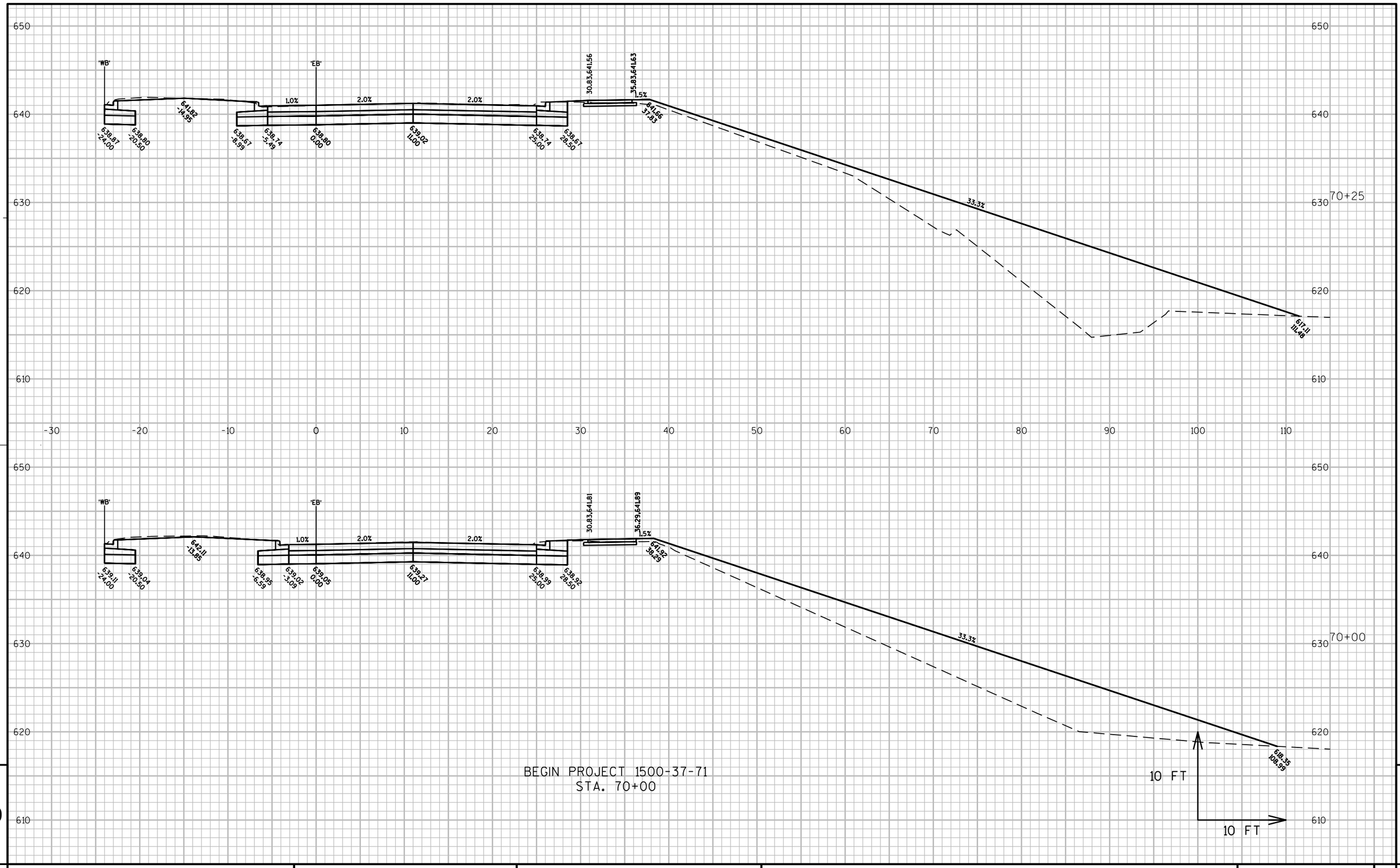
EARTHWORK - MARITIME DR, NB

STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 2	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate Note 3
10+75	140.69	0.41					
11+00	154.83	0.26	137	0	137	0	136
11+25	75.10	0.13	106	0	243	1	243
11+50	82.38	0.02	73	0	316	1	315
11+75	93.10	0.00	81	0	397	1	397
12+00	106.88	0.00	93	0	490	1	489
12+25	114.24	2.24	102	1	592	2	590
12+50	66.37	10.19	84	6	676	10	666
12+75	64.53	23.52	61	16	737	31	706
13+00	58.75	30.57	57	25	794	64	730
13+25	49.14	24.09	50	25	844	98	746
13+50	48.01	11.00	45	16	889	119	769
13+59.2	40.42	12.64	15	4	904	125	779
			904	94			

EARTHWORK - MARITIME DR, SB

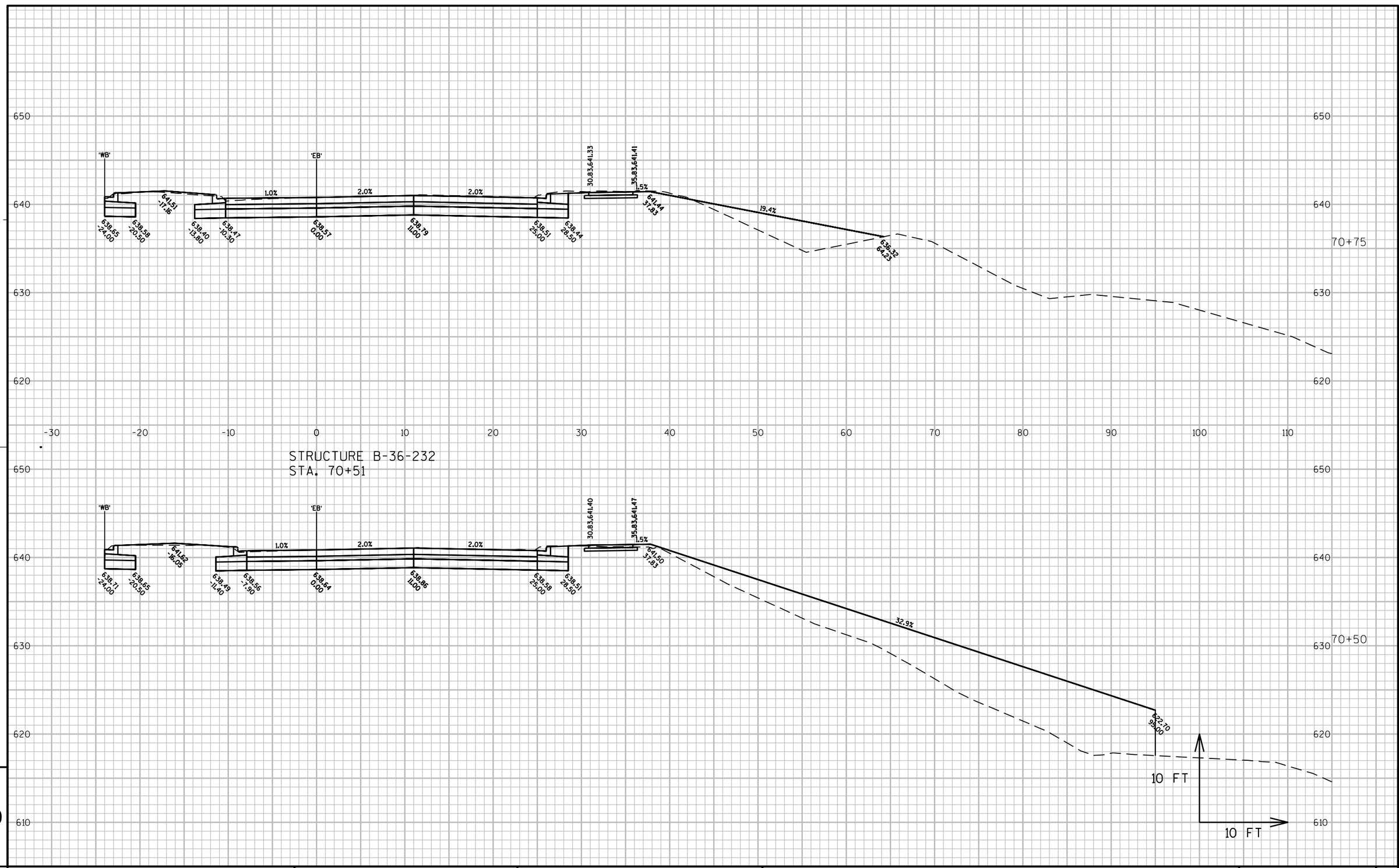
STATION	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 2	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.33	Mass Ordinate Note 3
11+25	78.81	0.02					
11+50	74.93	0.00	71	0	71	0	71
11+75	67.62	1.00	66	0	137	1	137
12+00	65.90	2.28	62	2	199	3	196
12+25	63.06	12.20	60	7	259	12	247
12+50	72.46	24.91	63	17	321	34	287
12+75	73.32	23.66	67	22	389	64	325
13+00	59.91	45.74	62	32	451	107	344
13+25	48.57	107.34	50	71	501	201	300
13+33.21	35.33	124.73	13	35	514	249	265
			514	187			

Notes:	
1 - Cut	Cut includes existing aspahlt and concrete
2 - Fill	Unexpanded
3 - Mass Ordinate	Cut - (Fill * Fill Factor)



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_7000-8203.DWG PLOT DATE : 8/16/2017 1:51 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (9) US 10 PLOT SCALE : 1:10_XREF



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 804	E

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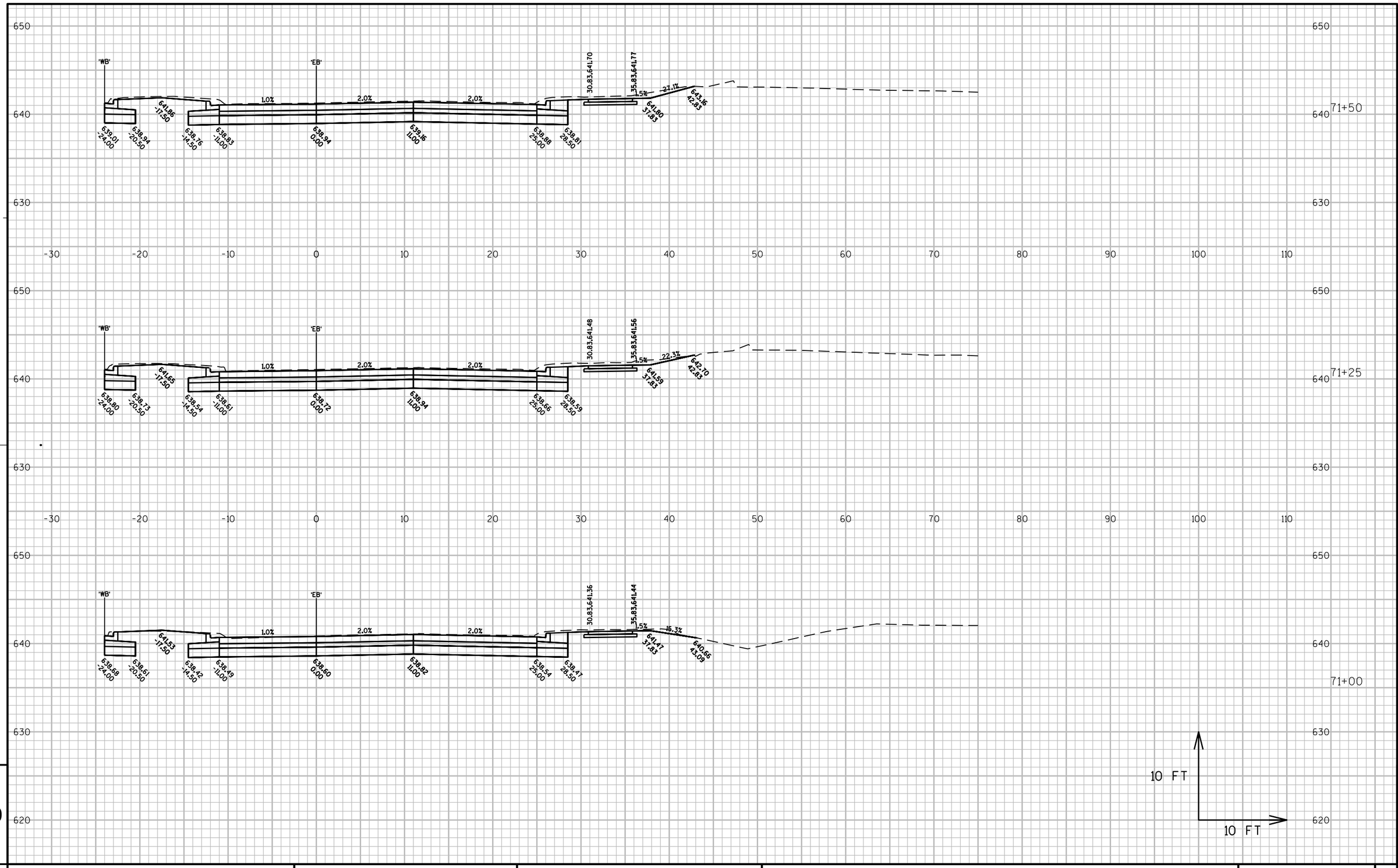
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_7000-8203.DWG PLOT DATE : 8/16/2017 1:52 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (11) US 10 PLOT SCALE : 1:10_XREF

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 806	E

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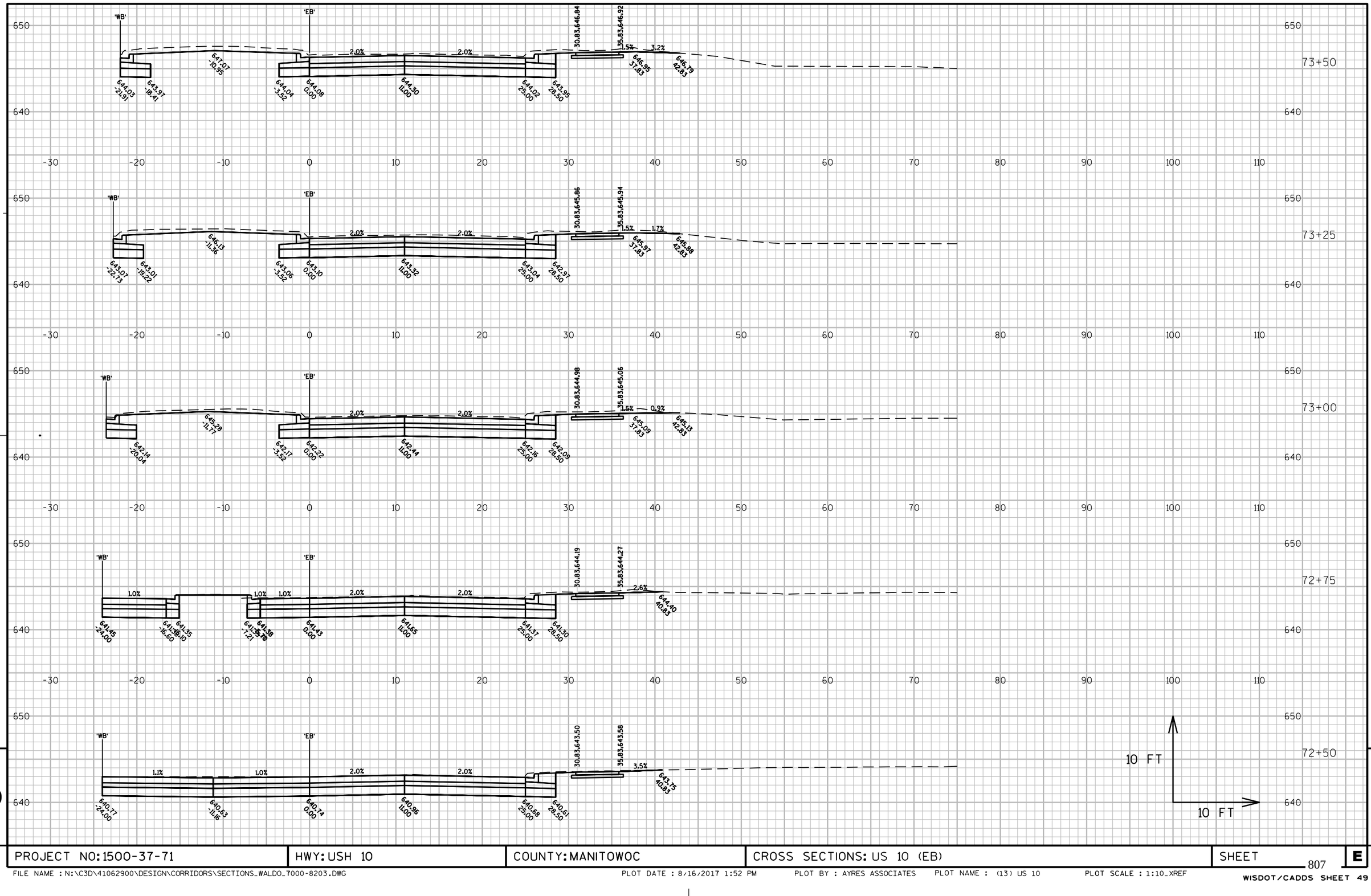
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 807	E

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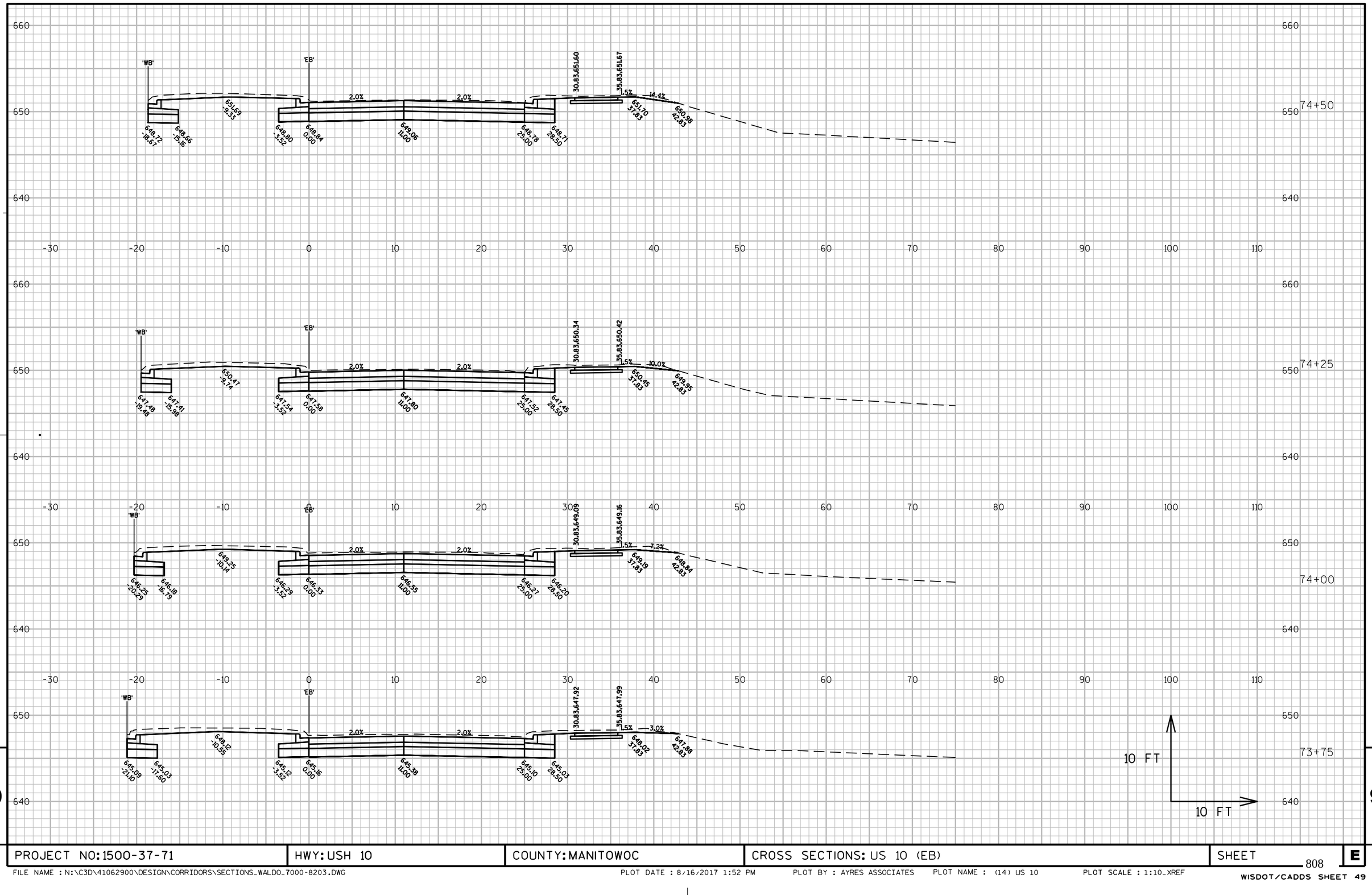
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 808	E

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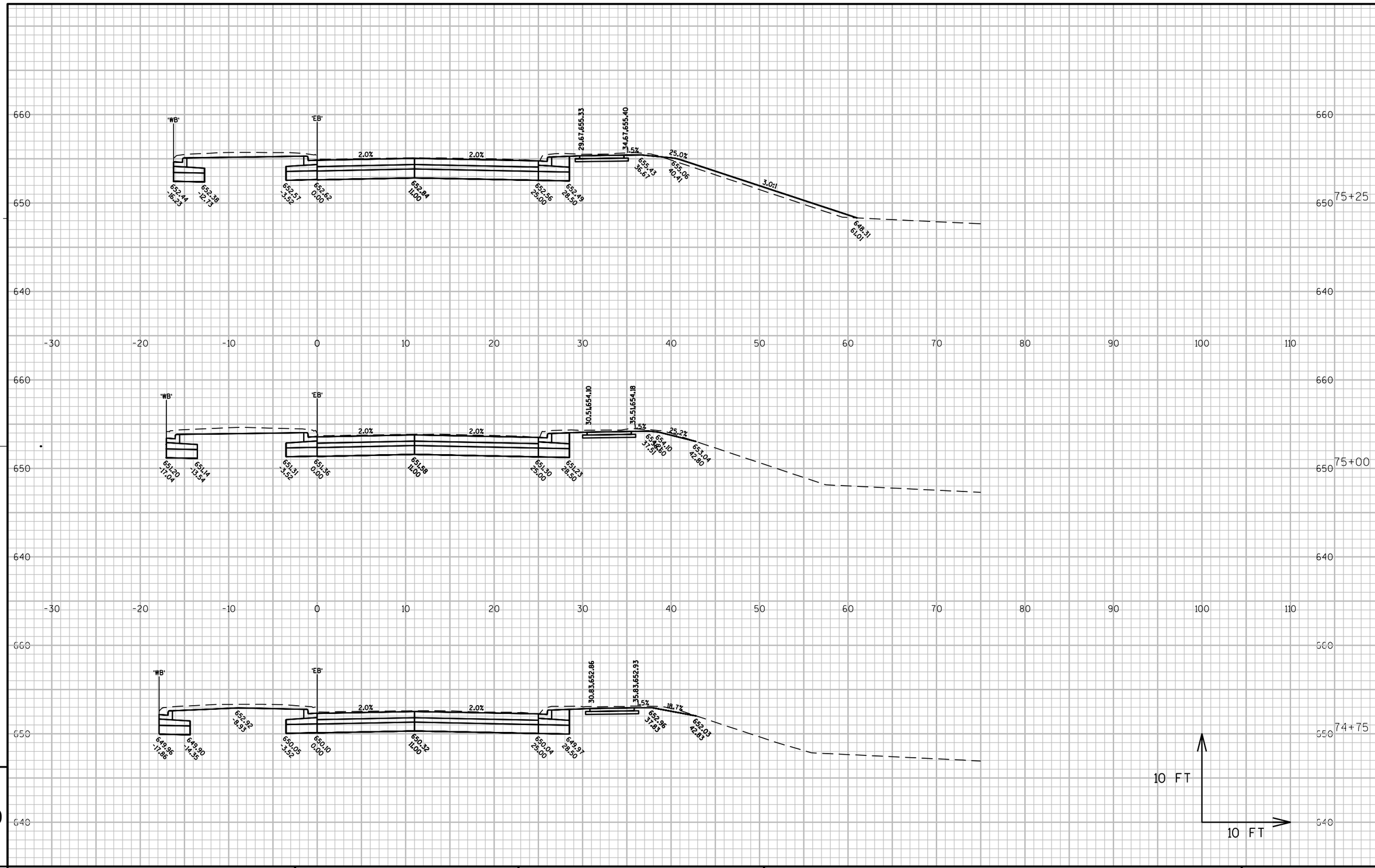

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 809	E

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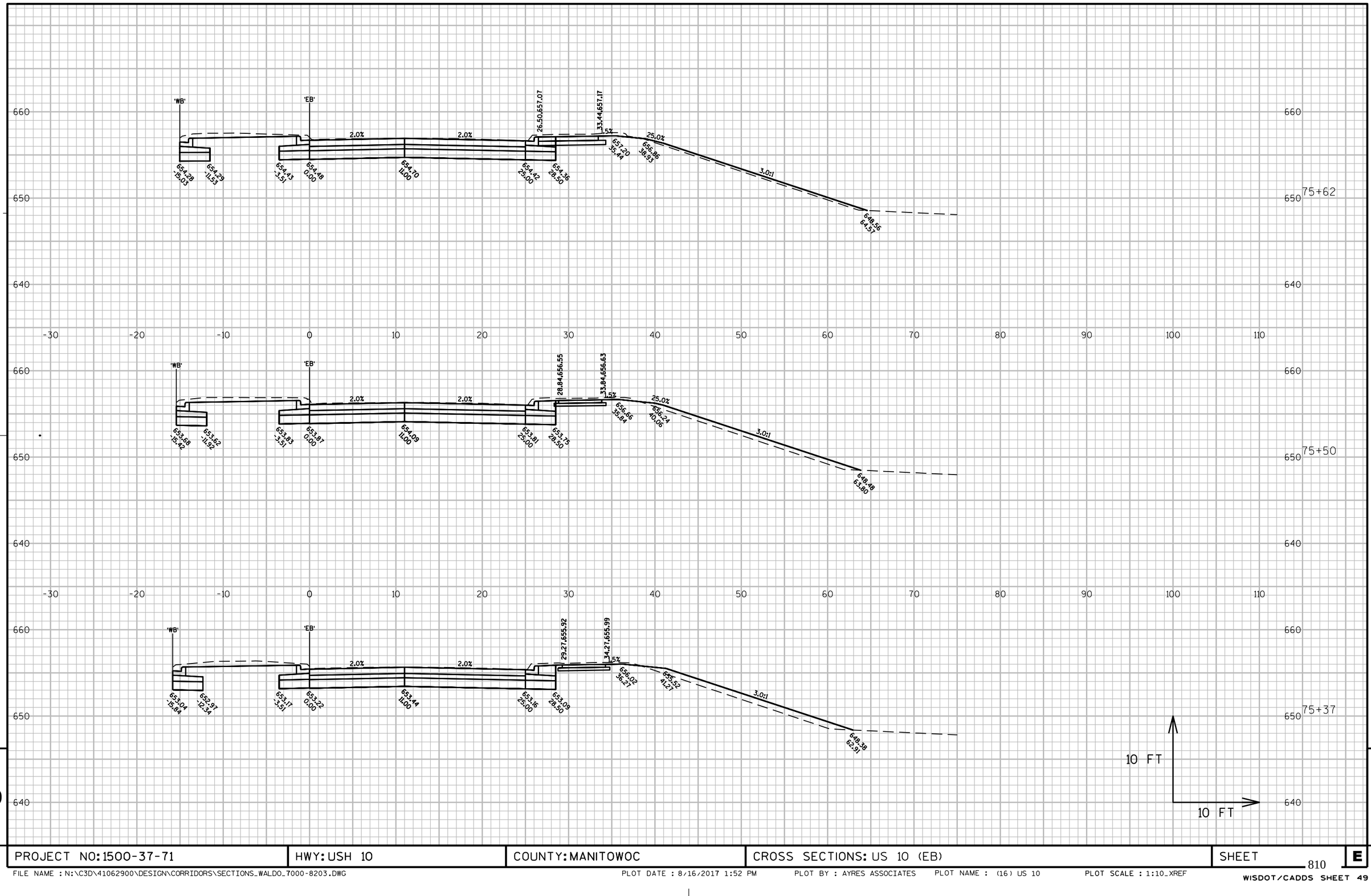
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 810	E

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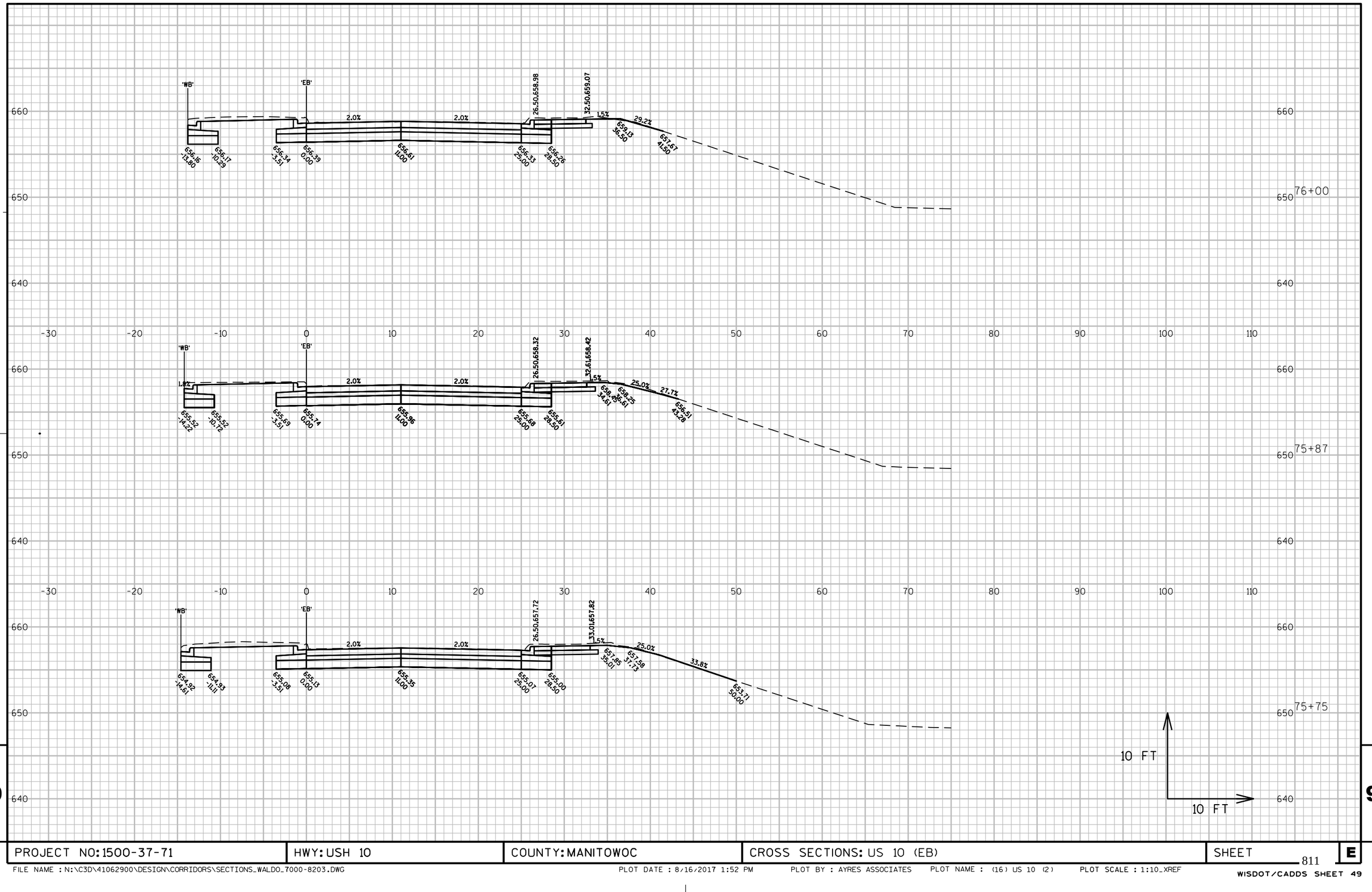
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 811	E

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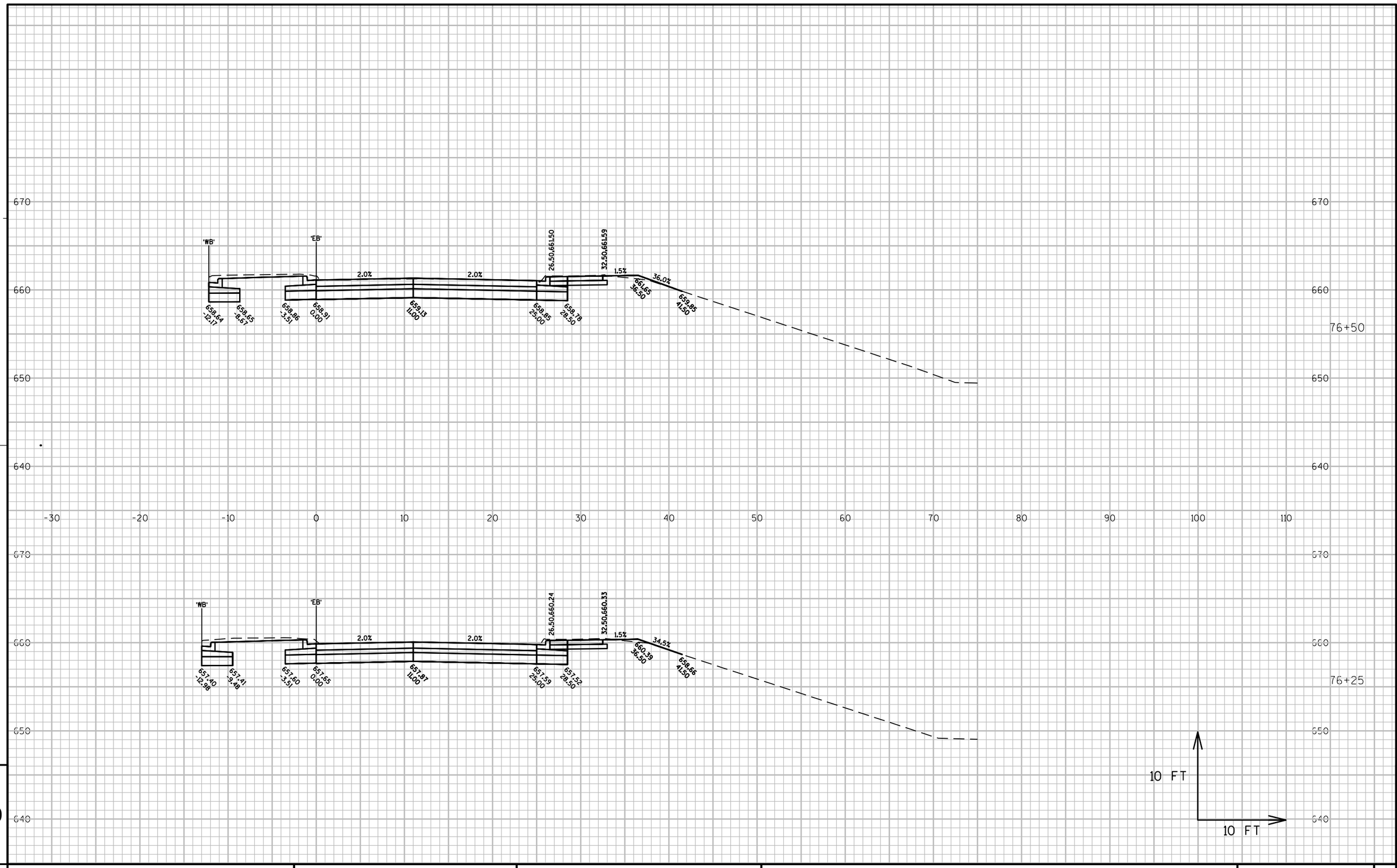
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 812	E

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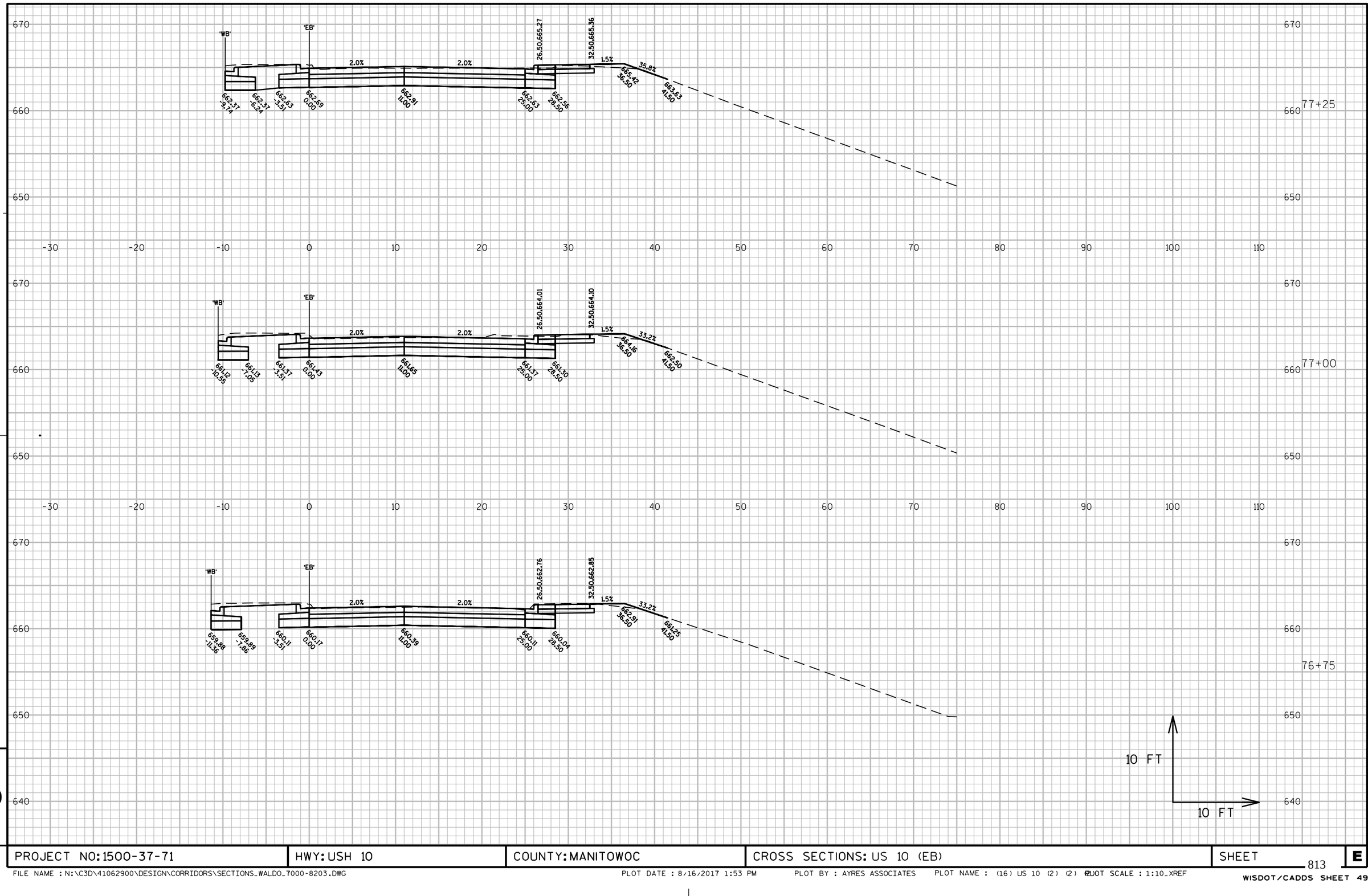
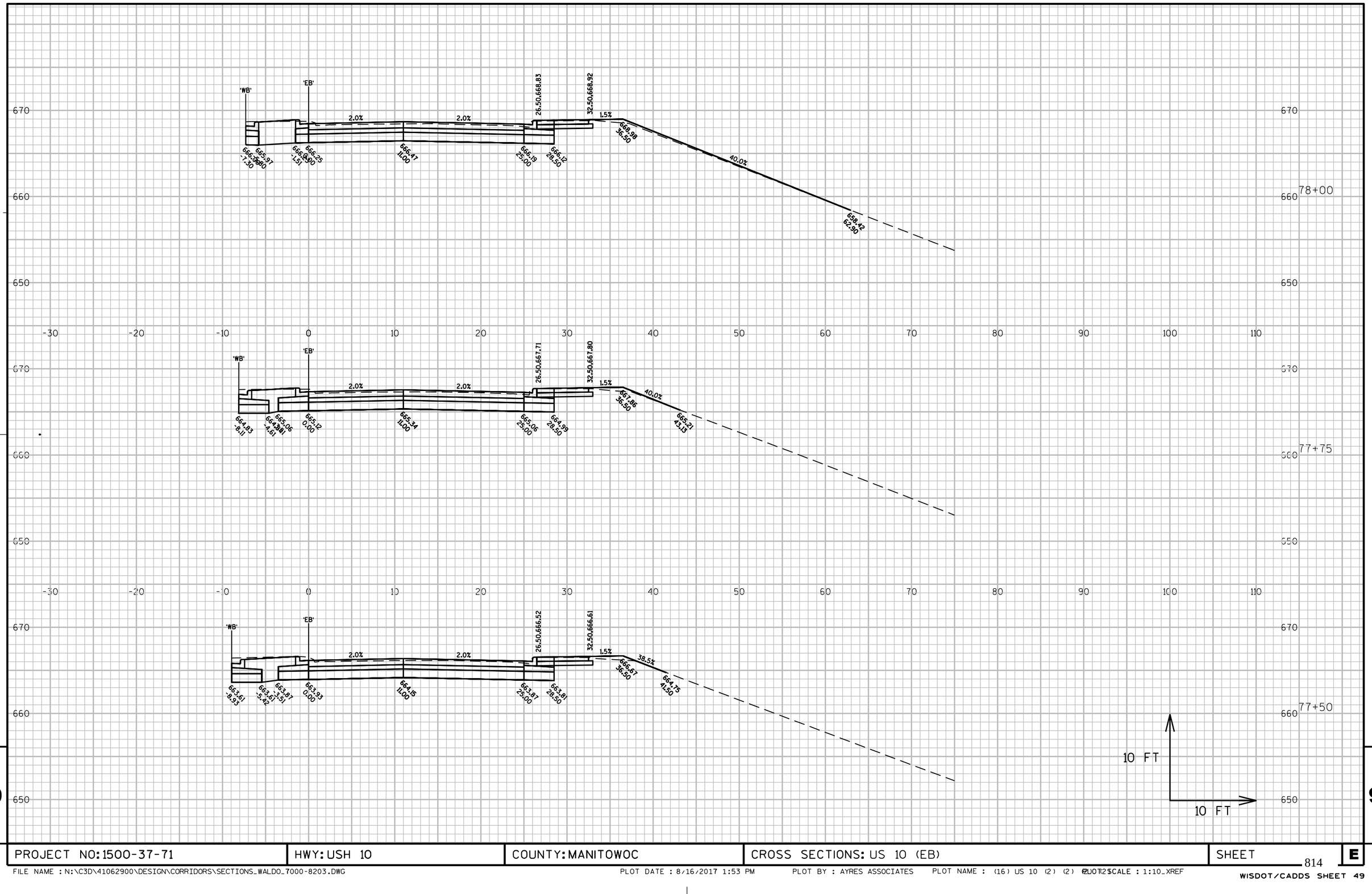
WISDOT/CADDS SHEET 49



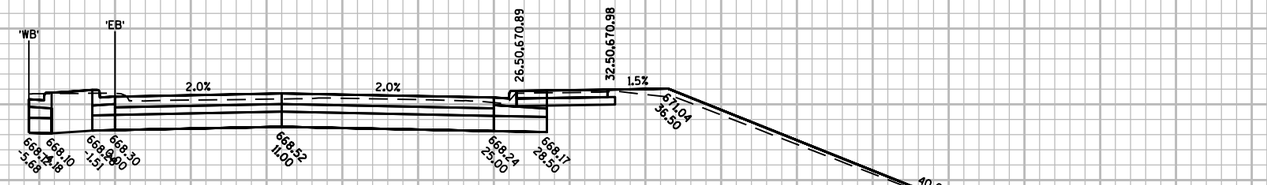
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 813	E

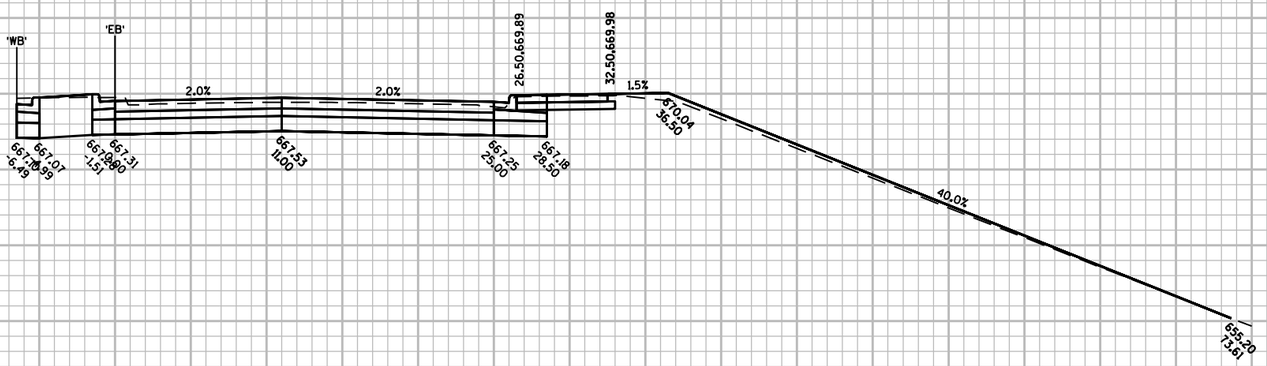


9

9

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 814	E





PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 815	E

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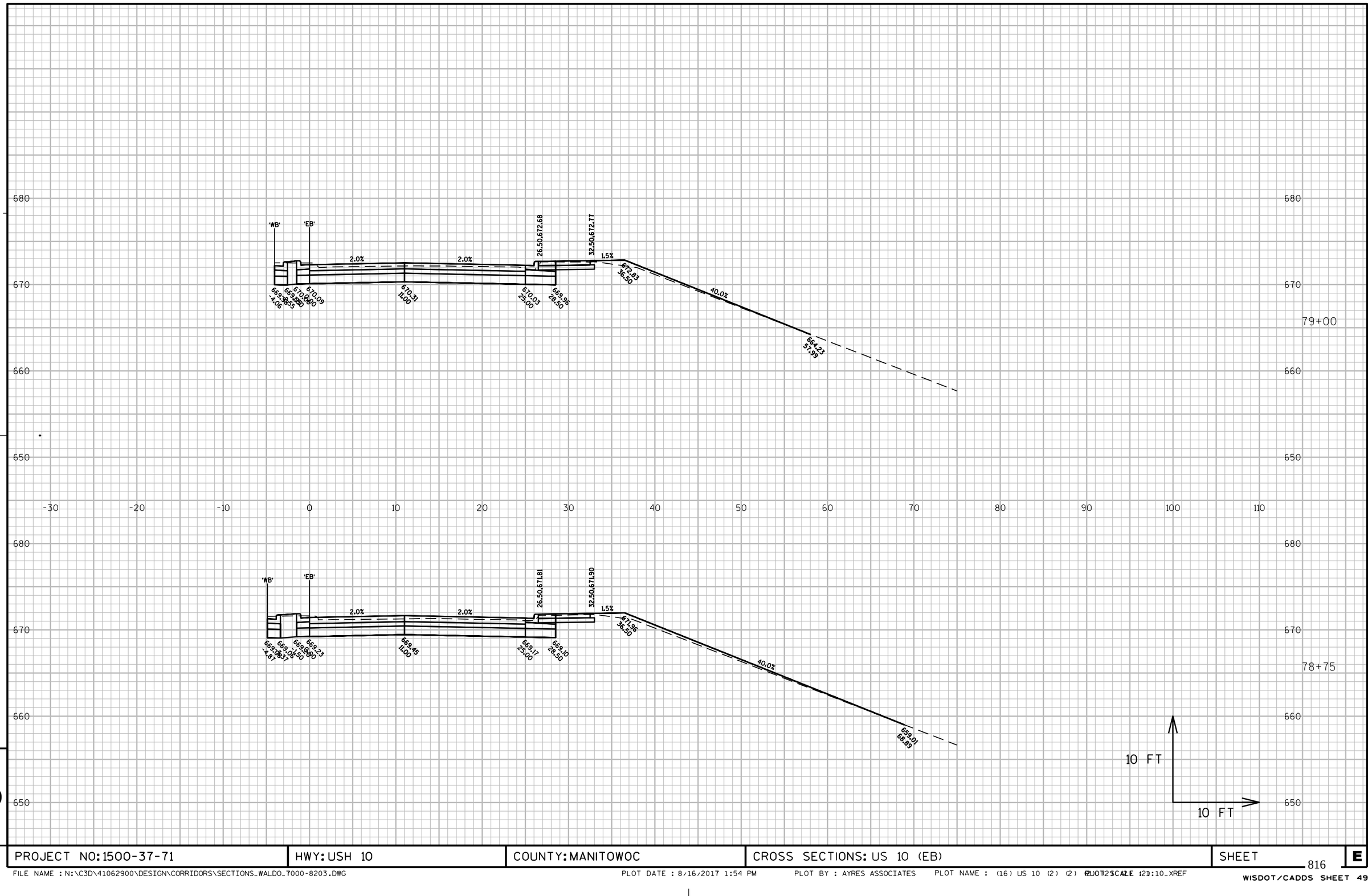
WISDOT/CADDS SHEET 49


'WB'
'EB'
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2.0%
26.50,672.68
32.50,672.77
1.5%
672.83
36.50
40.0%
669.96
669.96
670.08
670.09
670.31
11.00
670.03
25.00
669.96
28.50
664.23
57.99
4.06
680
670
660
650
79+00
-30
-20
-10
0
10
20
30
40
50
60
70
80
90
100
110
'WB'
'EB'
2.0%
2.0%
26.50,671.81
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1.5%
671.96
36.50
40.0%
669.45
11.00
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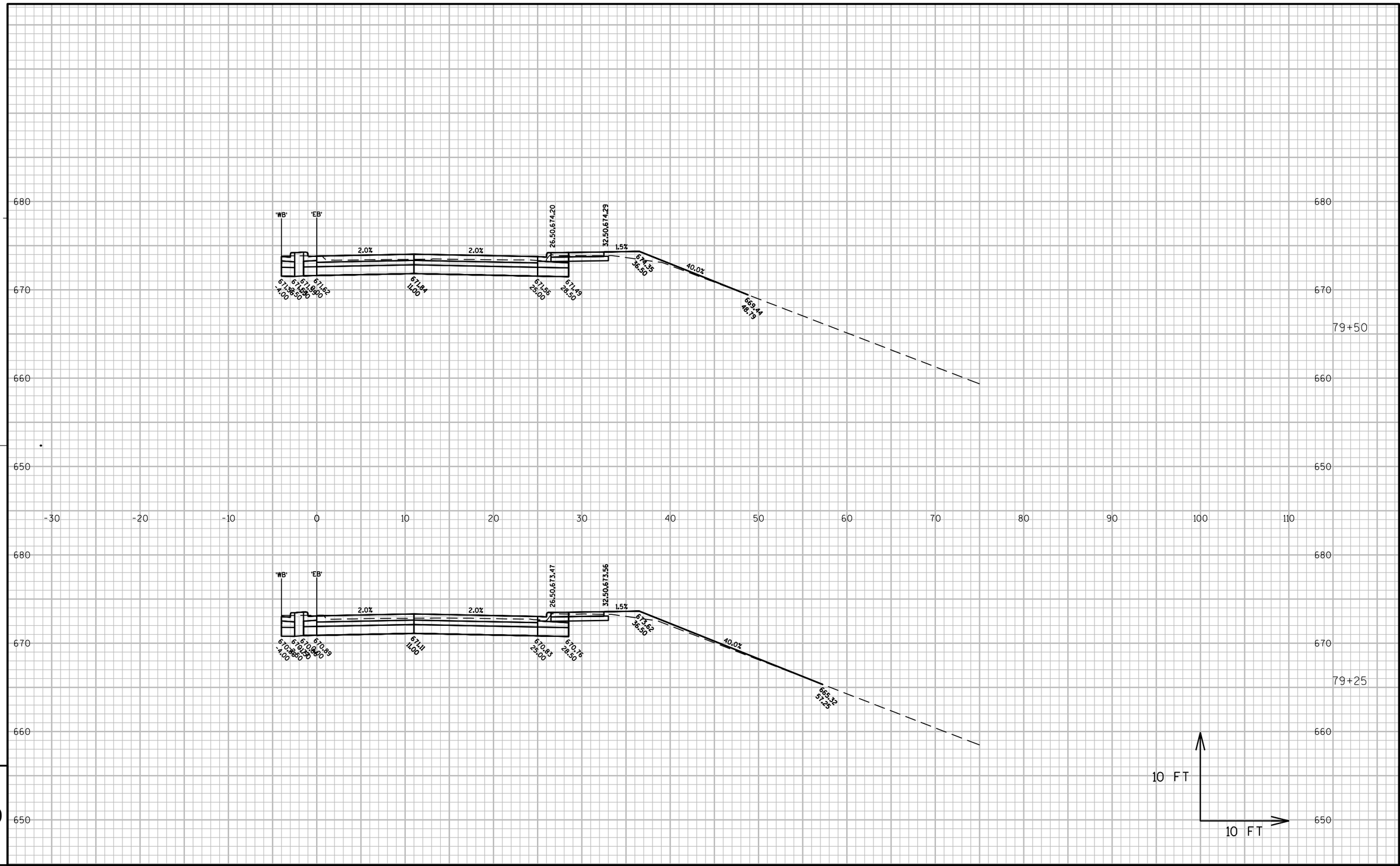
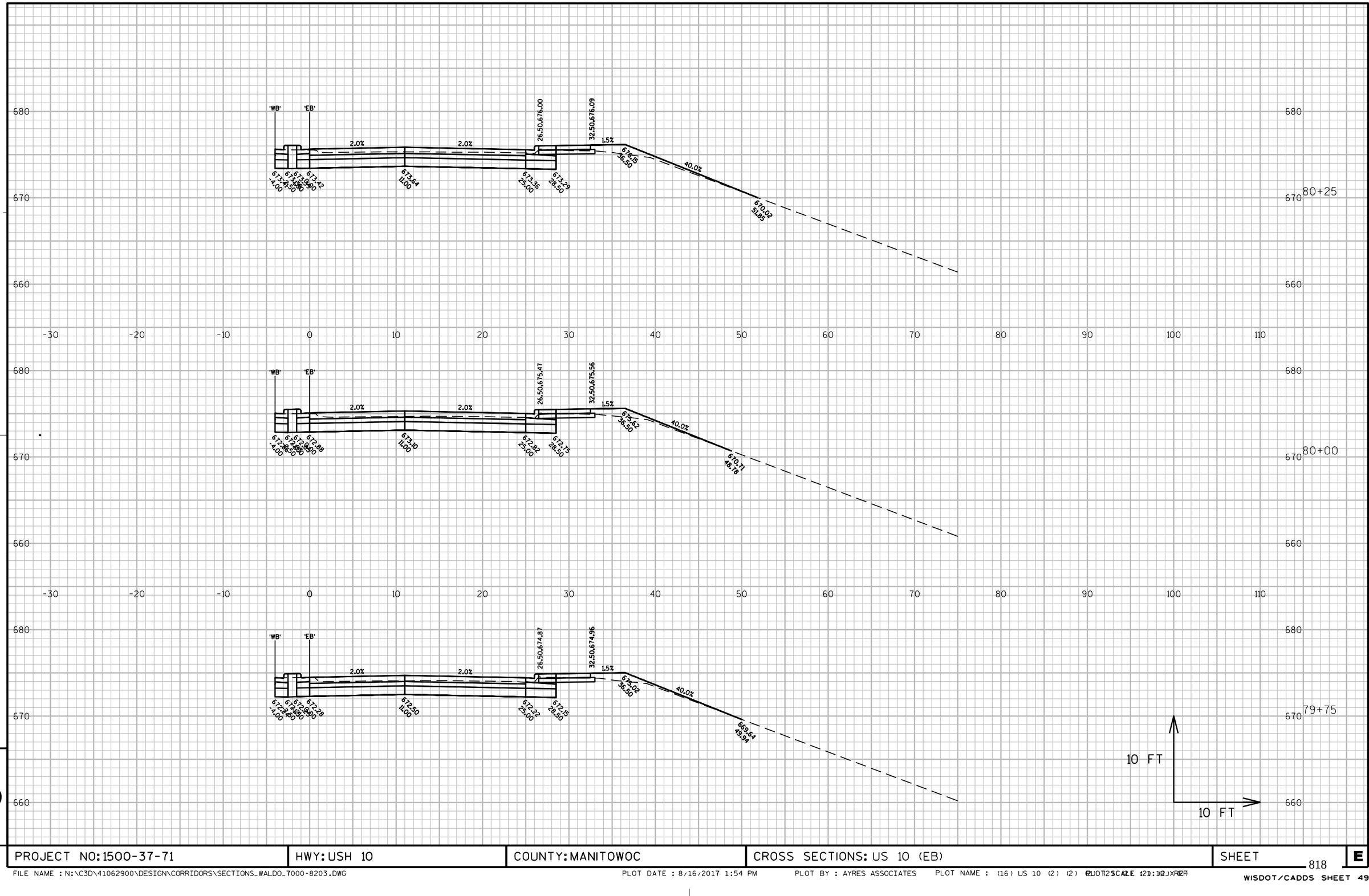


9

9

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_7000-8203.DWG
PLOT DATE : 8/16/2017 1:54 PM
PLOT BY : AYRES ASSOCIATES
PLOT NAME : (16) US 10 (2) (2) PLOT SCALE = 1.000 XREF
WISDOT/CADDS SHEET 49

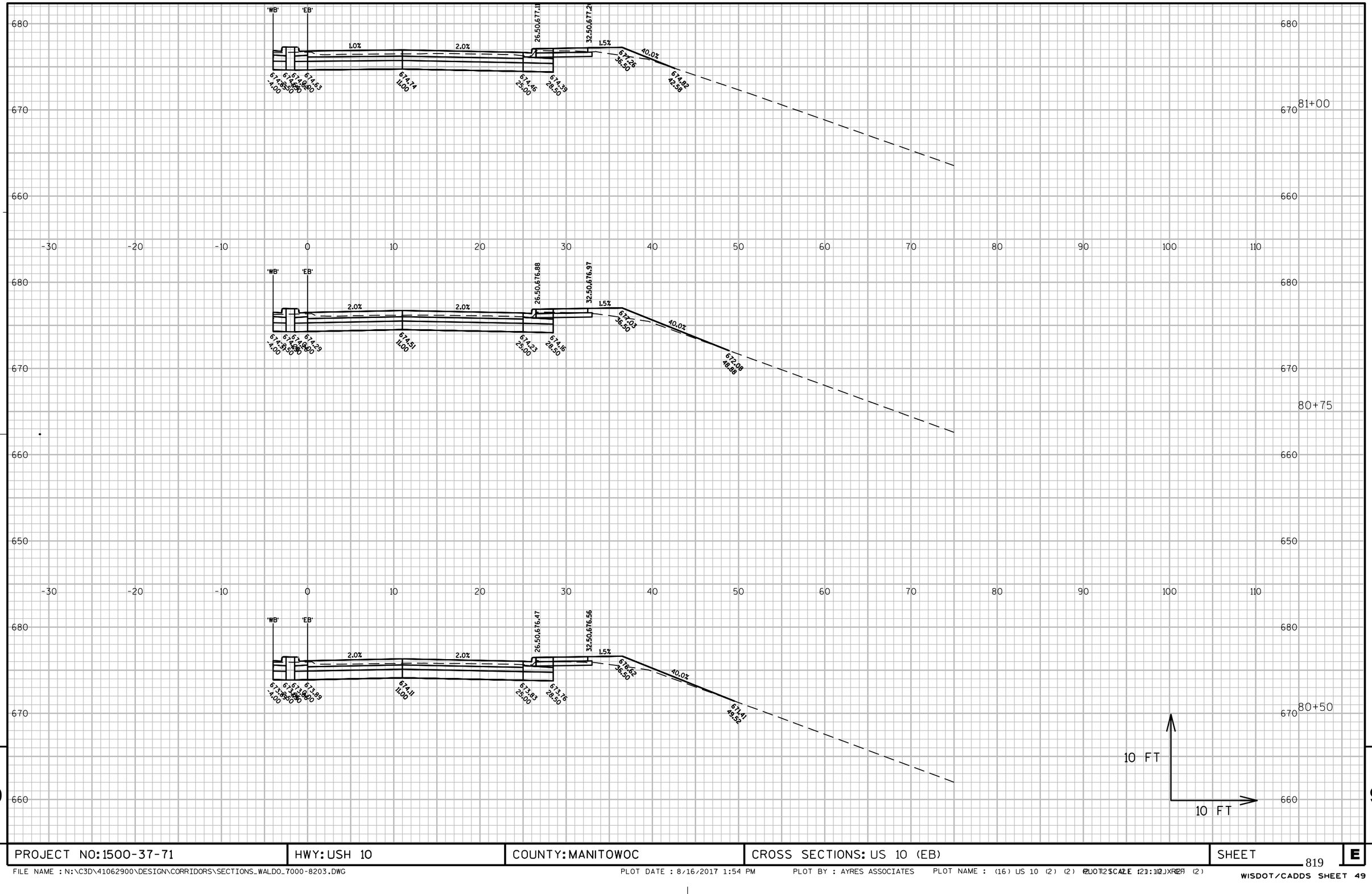


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET	E

818

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_7000-8203.DWG PLOT DATE : 8/16/2017 1:54 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (16) US 10 (2) (2) PLOT SCALE 1:1.0 XREF

WISDOT/CADDS SHEET 49



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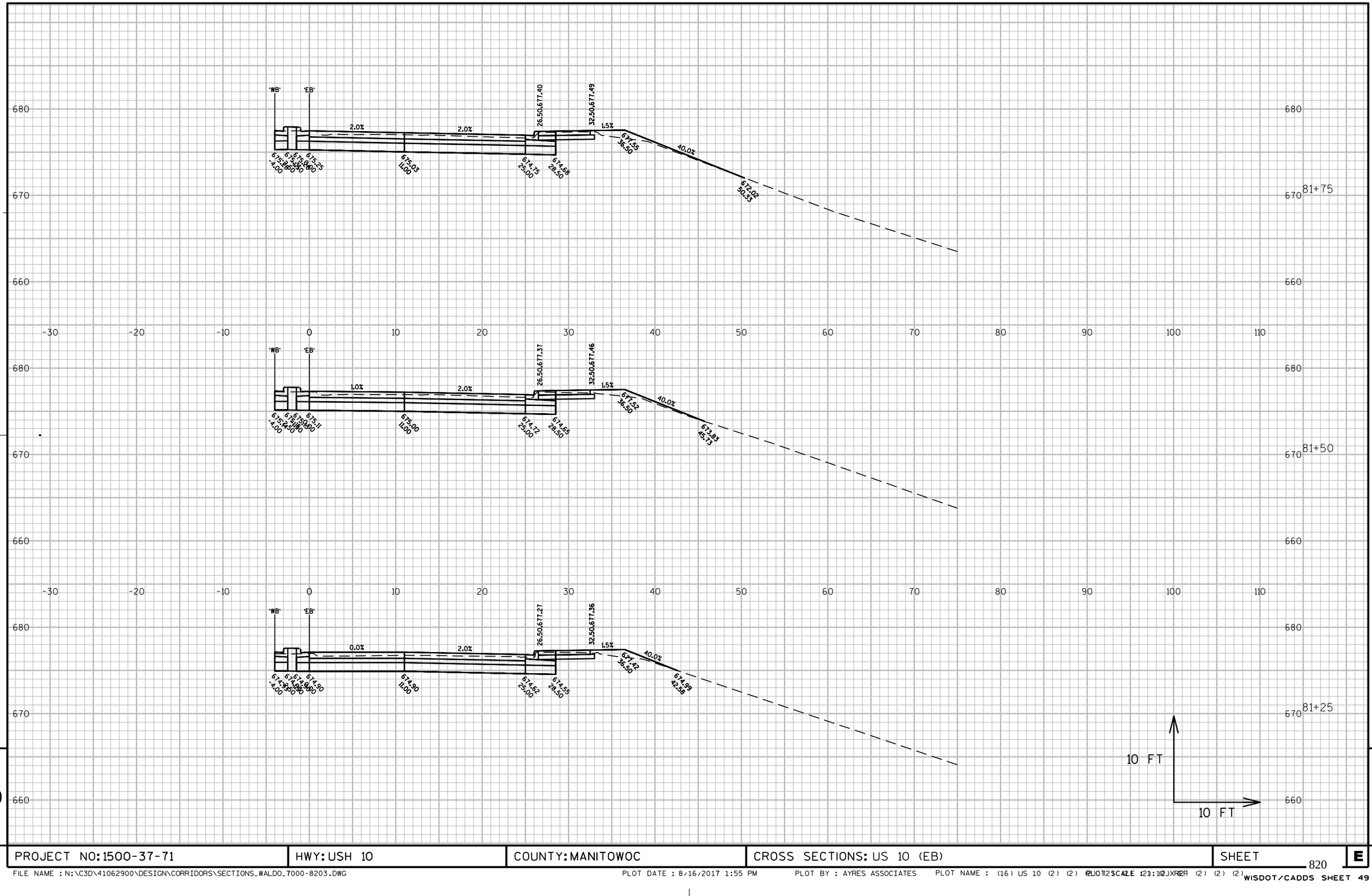
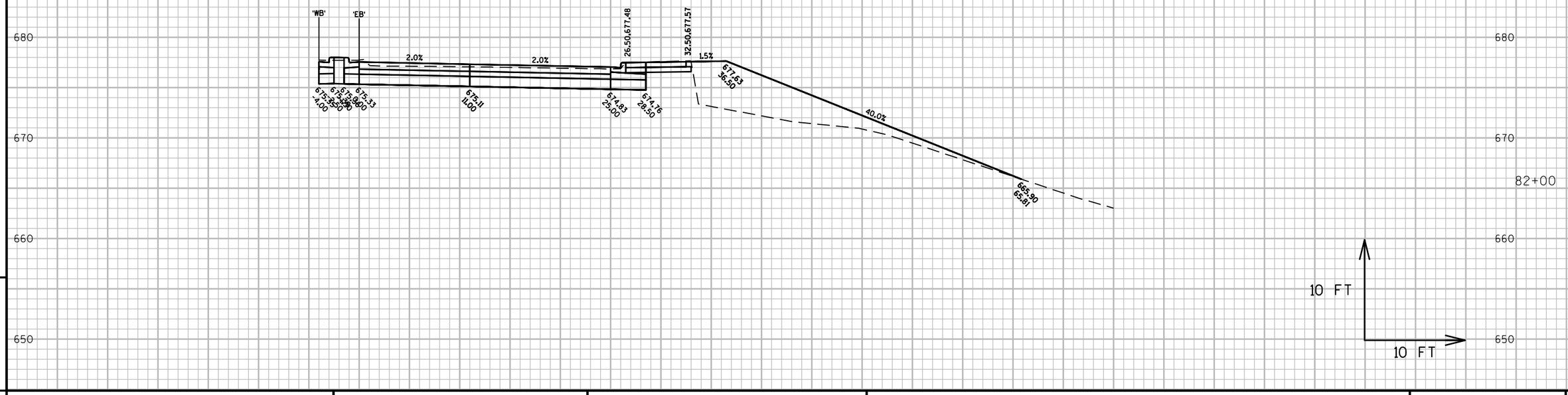
9

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 819	E



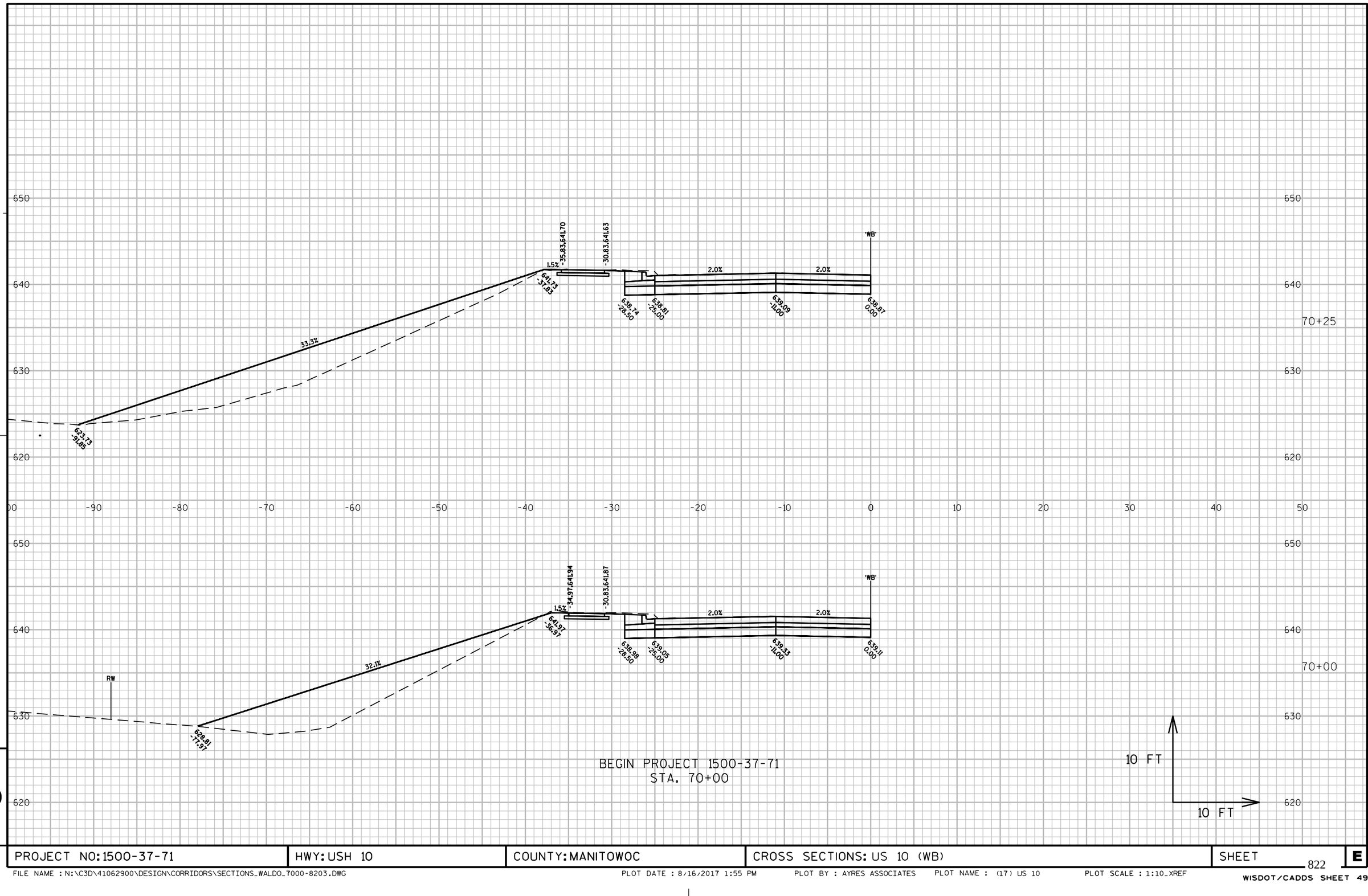
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 820 E

STRUCTURE B-36-29
STA. 83+35



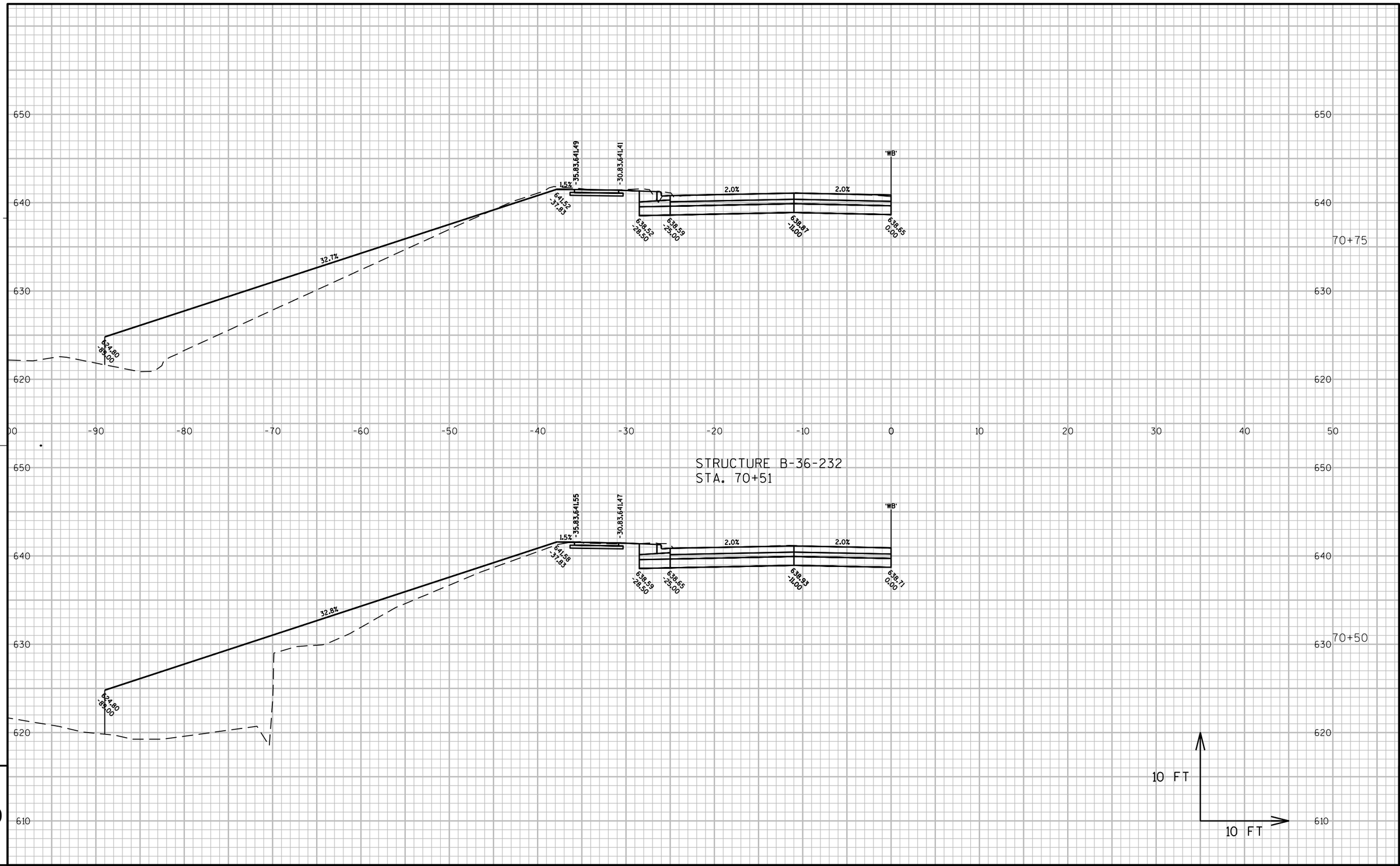
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_7000-8203.DWG
PLOT DATE : 8/16/2017 1:54 PM
PLOT BY : AYRES ASSOCIATES
PLOT NAME : (16) US 10 (2) (2) PLOT SCALE = 1.0000 '/ IN
(2) (2)
WISDOT/CADDS SHEET 49



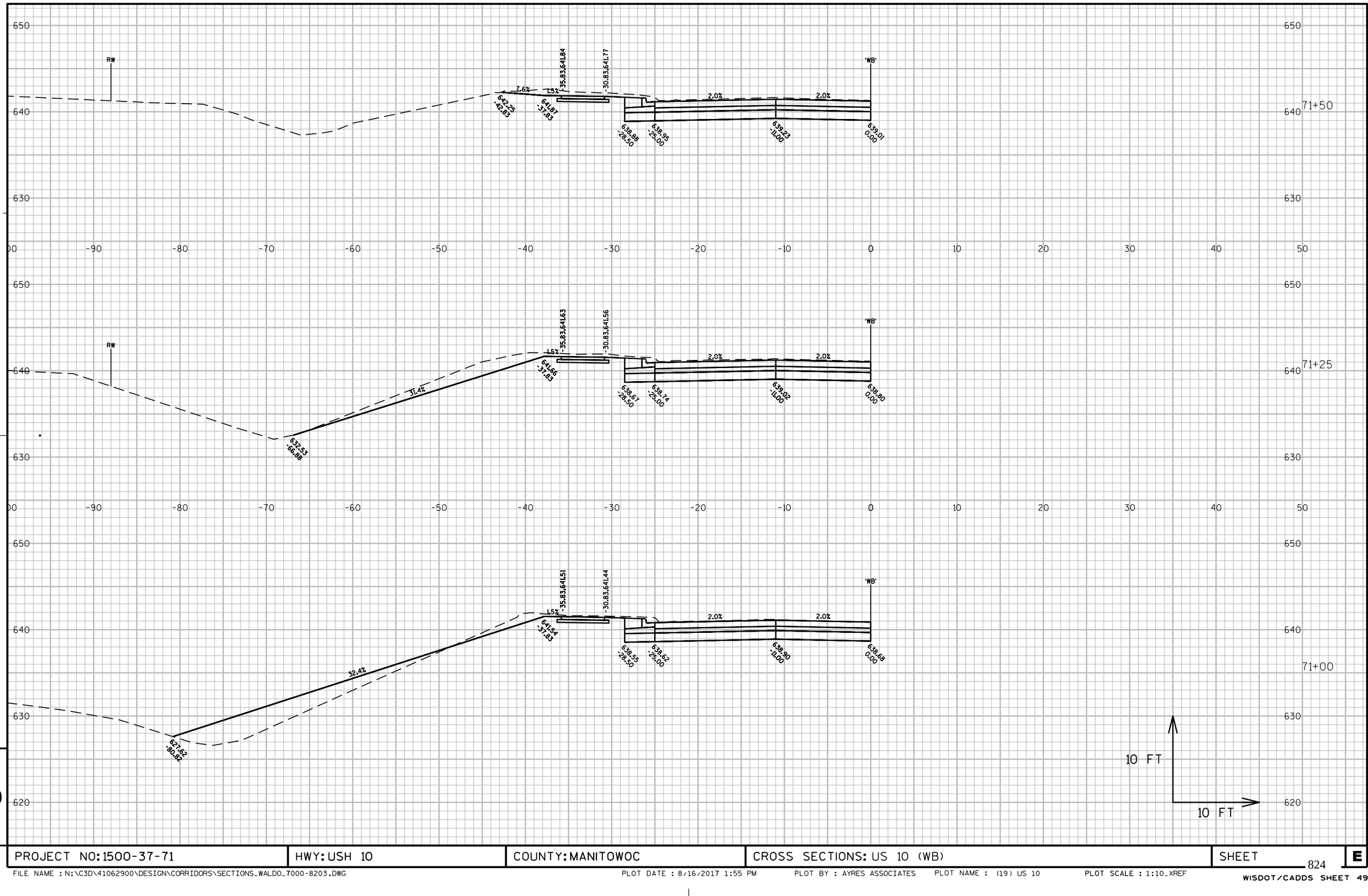
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_7000-8203.DWG PLOT DATE : 8/16/2017 1:55 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (17) US 10 PLOT SCALE : 1:10_XREF

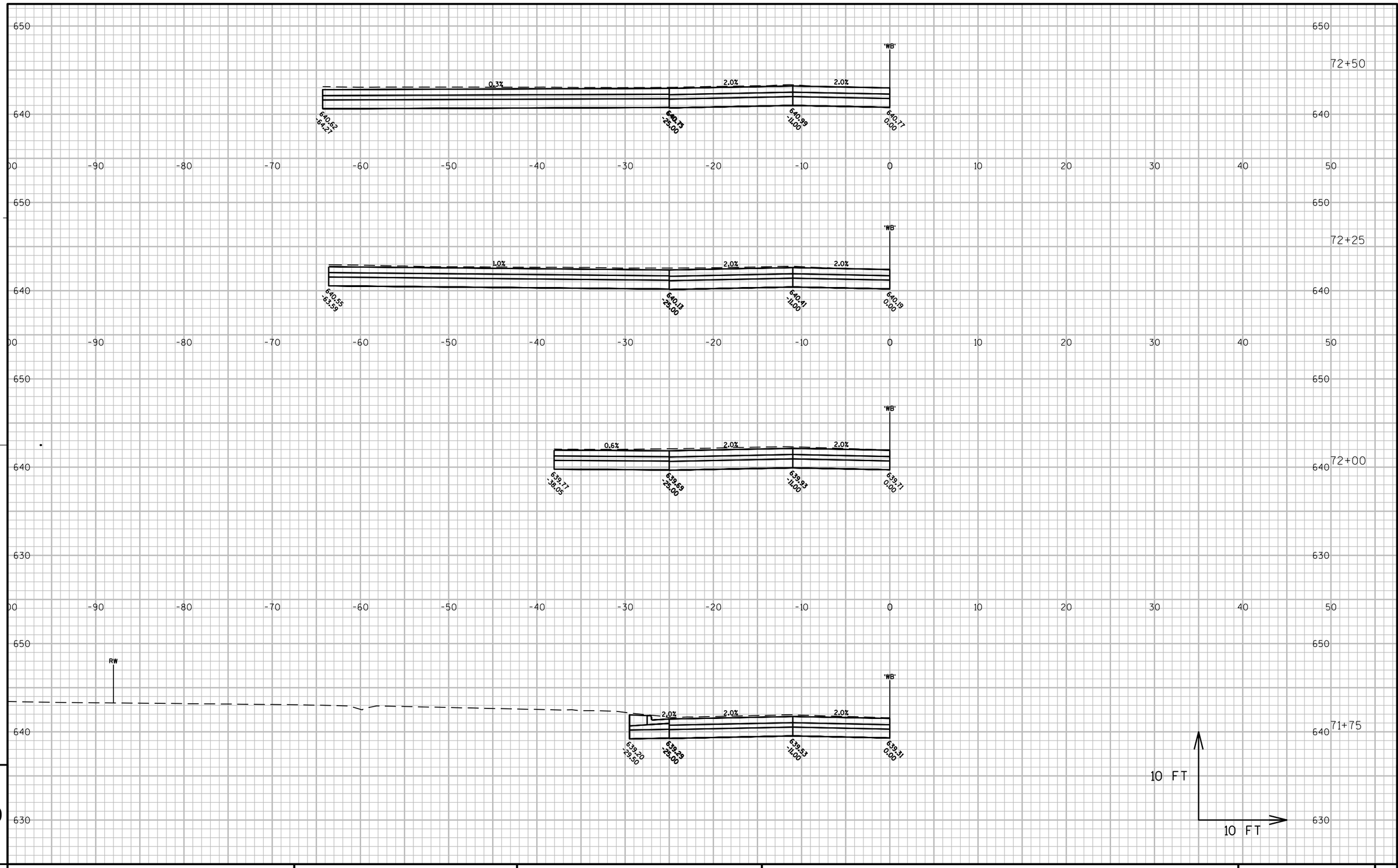


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET	E

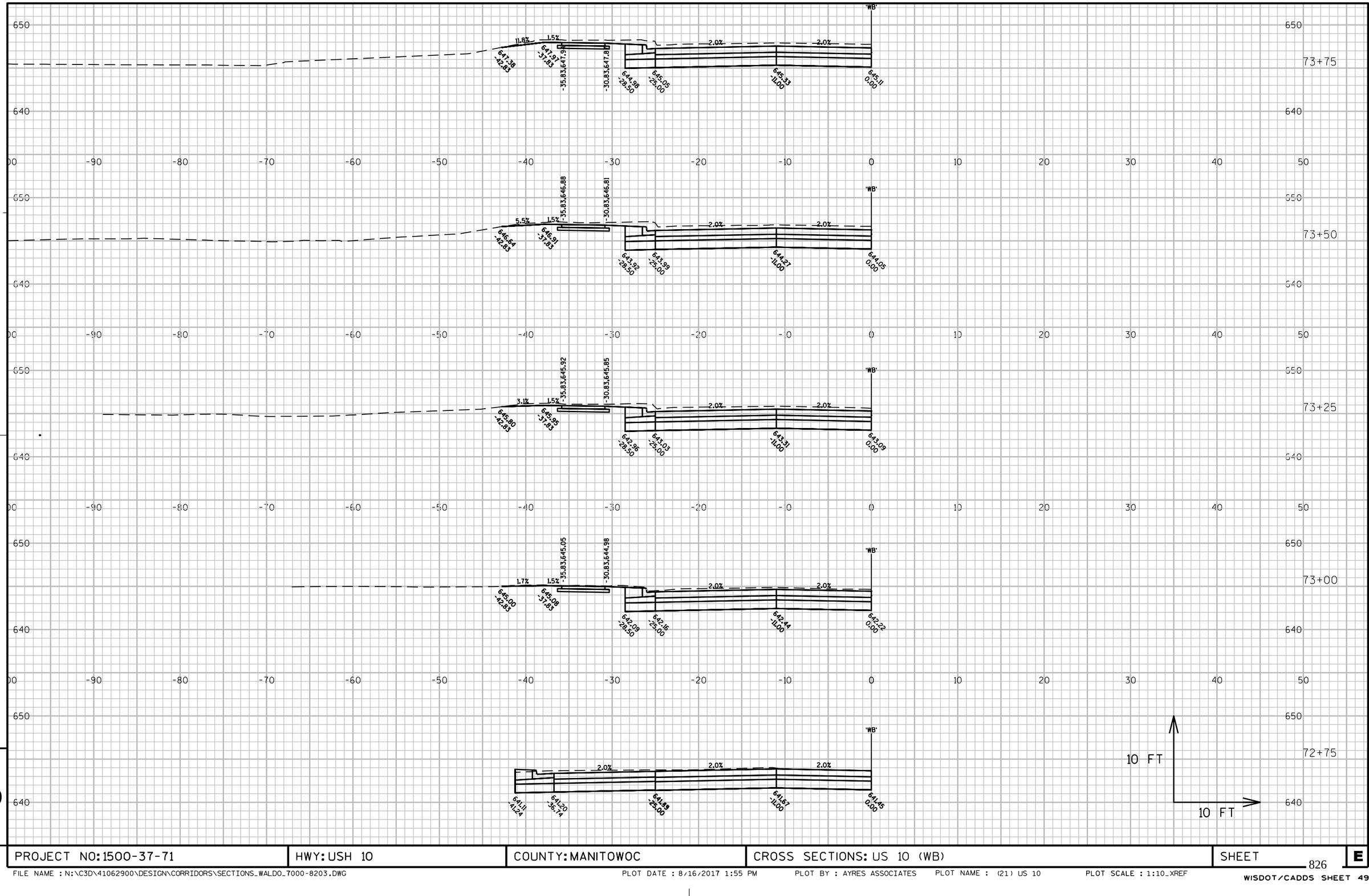
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_7000-8203.DWG PLOT DATE : 8/16/2017 1:55 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (18) US 10 PLOT SCALE : 1:10_XREF
WISDOT/CADDS SHEET 49



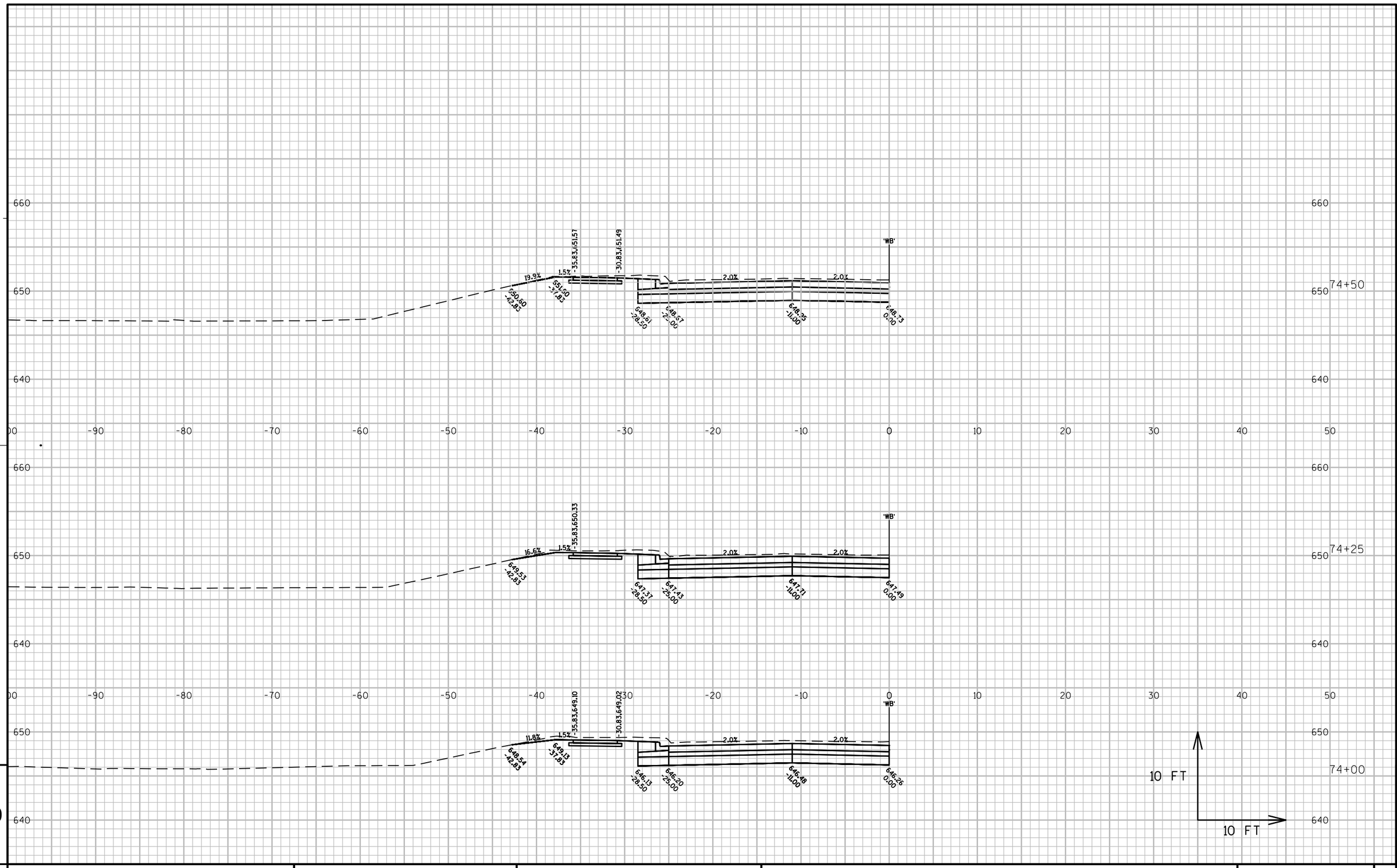
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET 824	E



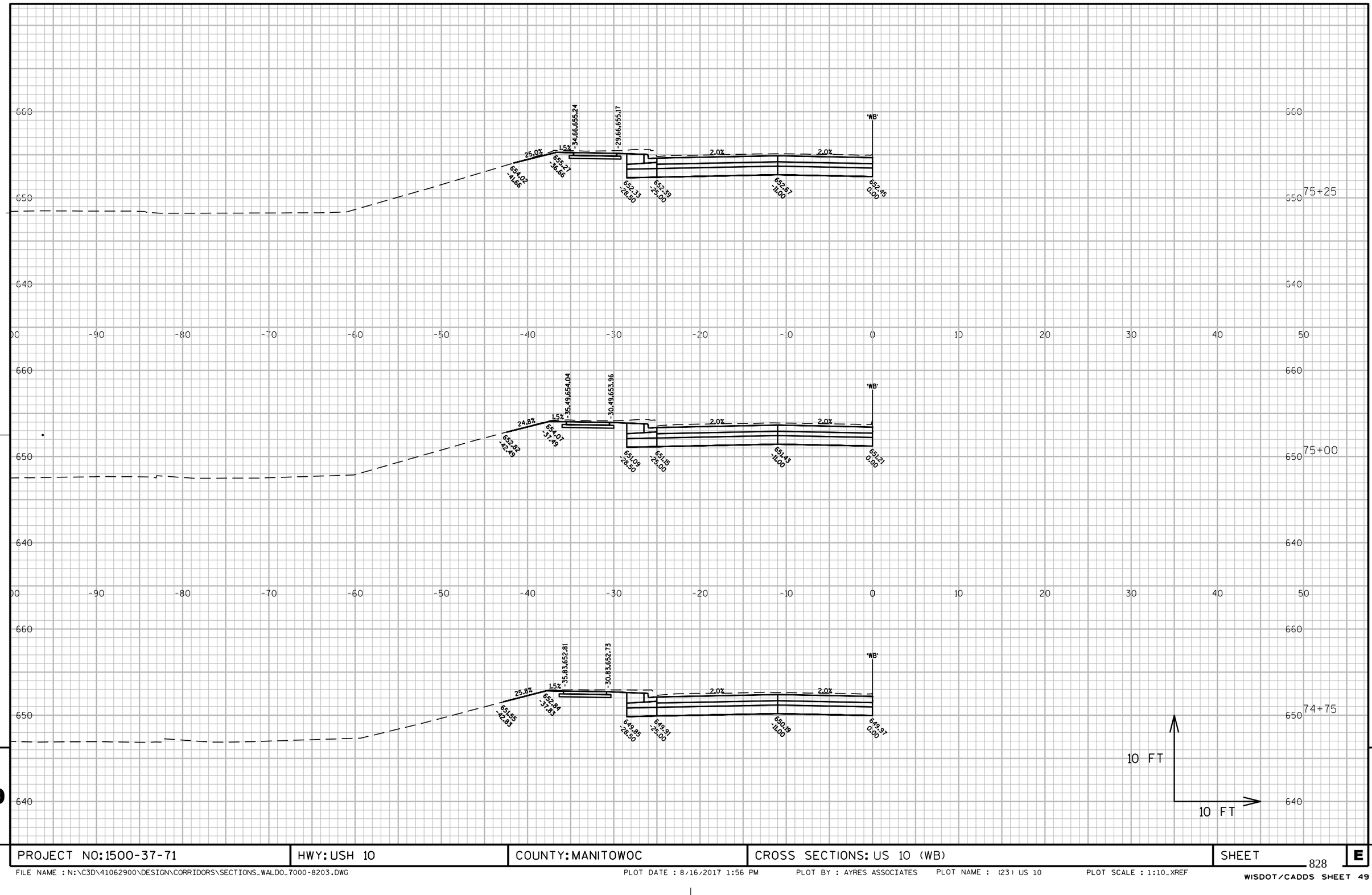
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET	E



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET	E



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET 827	E

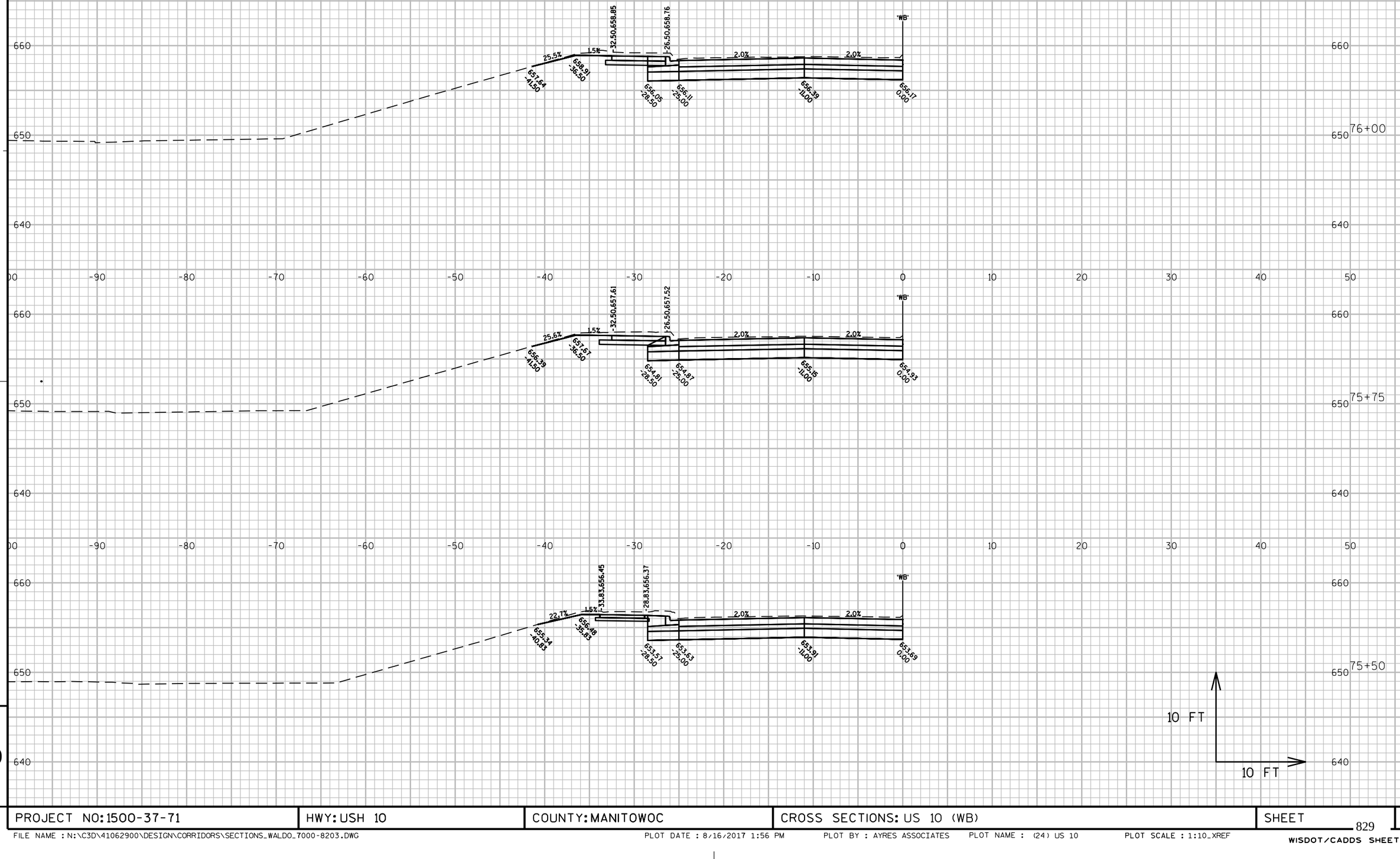


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET	E

828

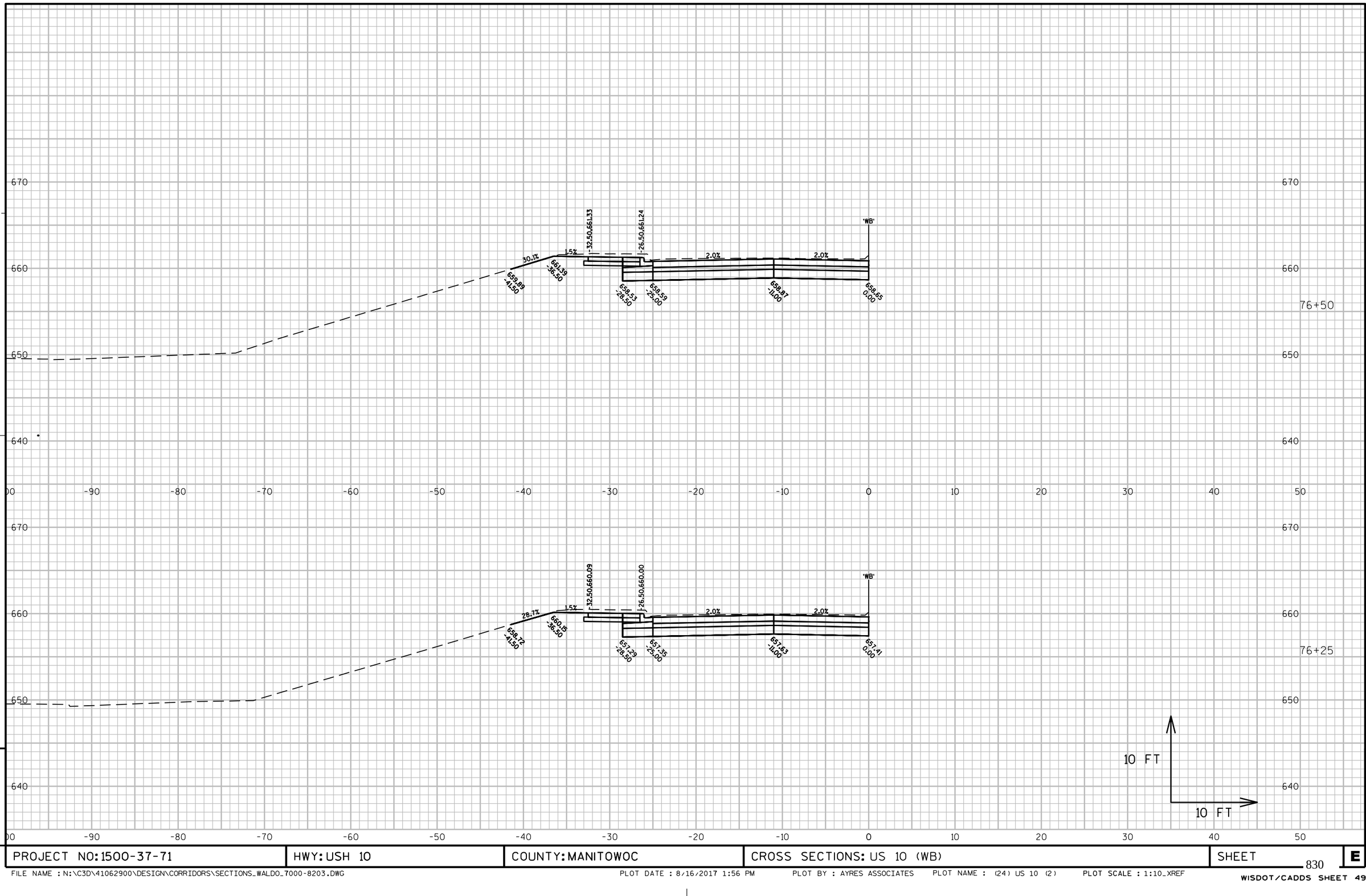
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_7000-8203.DWG PLOT DATE : 8/16/2017 1:56 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (23) US 10 PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET	E

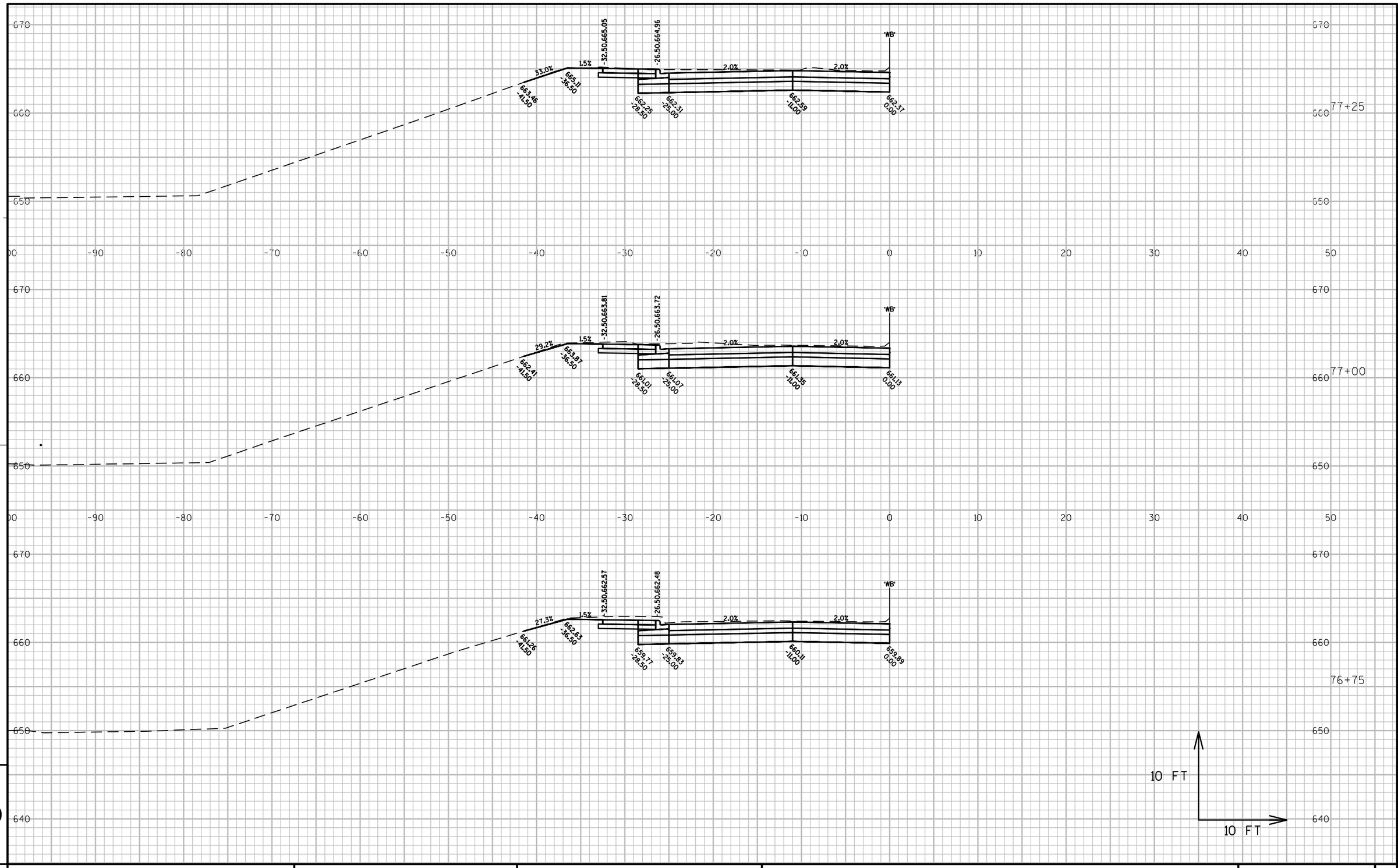
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_7000-8203.DWG PLOT DATE : 8/16/2017 1:56 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (24) US 10 PLOT SCALE : 1:10_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET 830	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_7000-8203.DWG PLOT DATE : 8/16/2017 1:56 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (24) US 10 (2) PLOT SCALE : 1:10_XREF

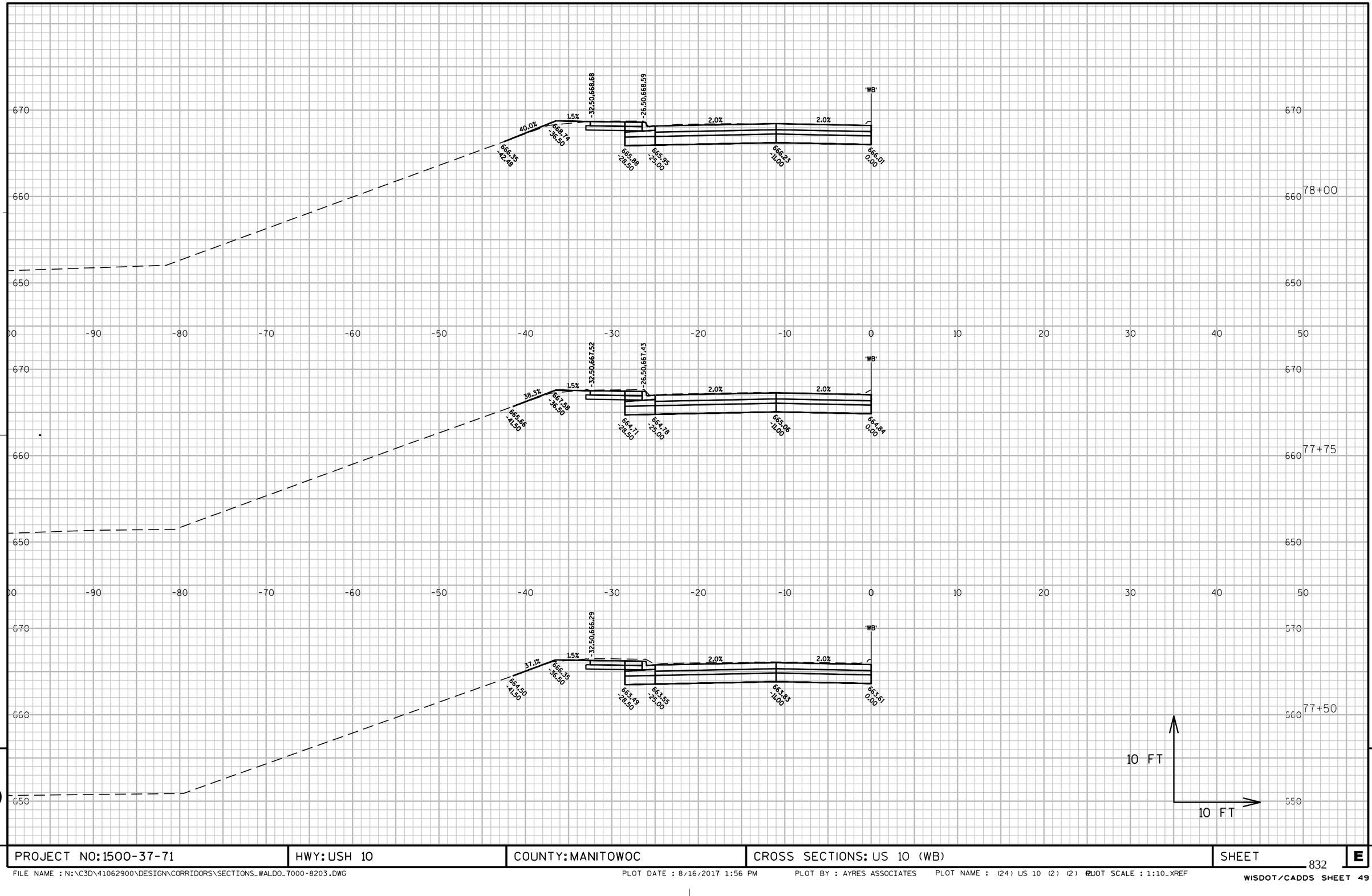
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_7000-8203.DWG PLOT DATE : 8/16/2017 1:56 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (24) US 10 (2) (2) PLOT SCALE : 1:10_XREF

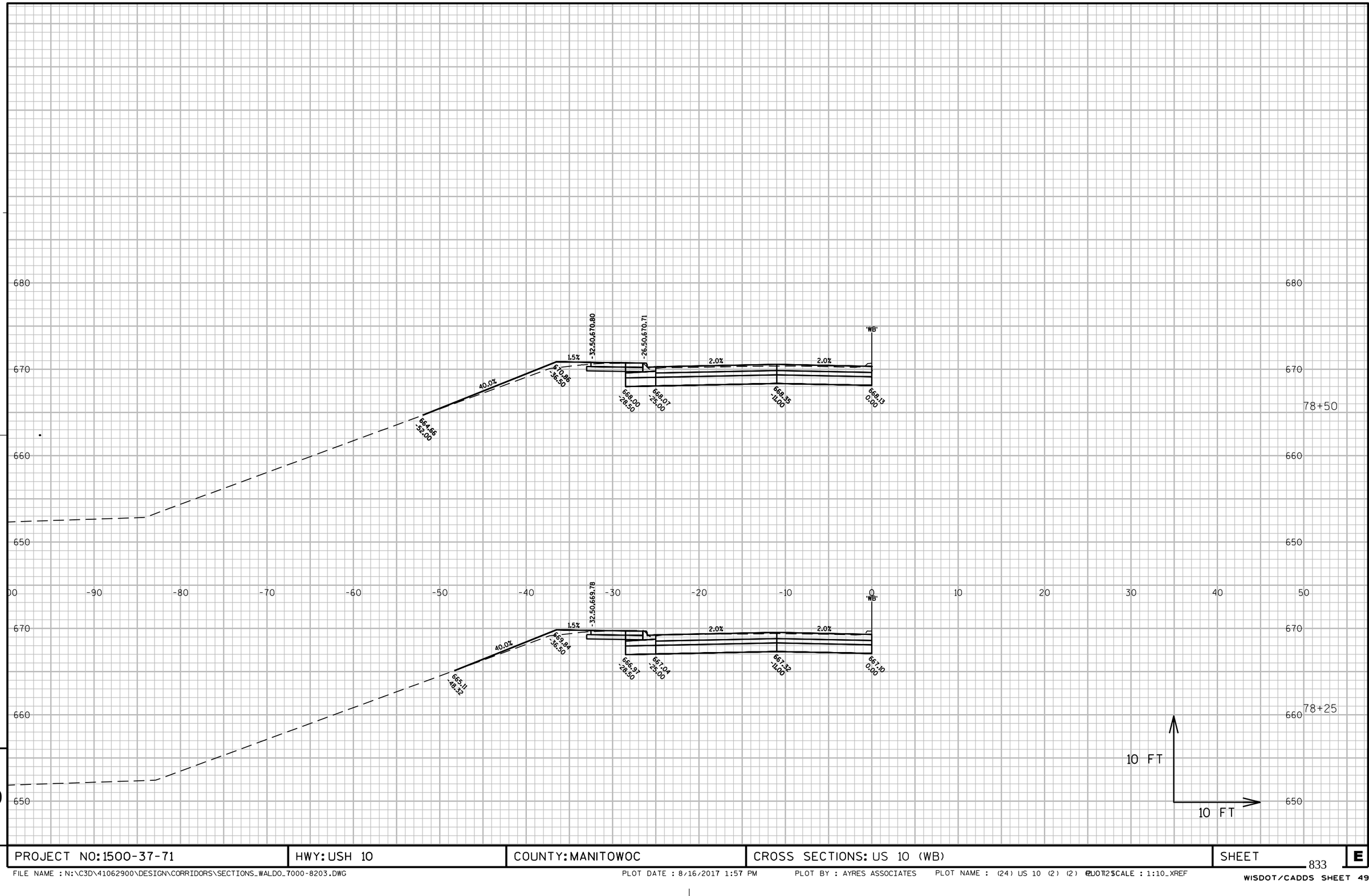
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET	E

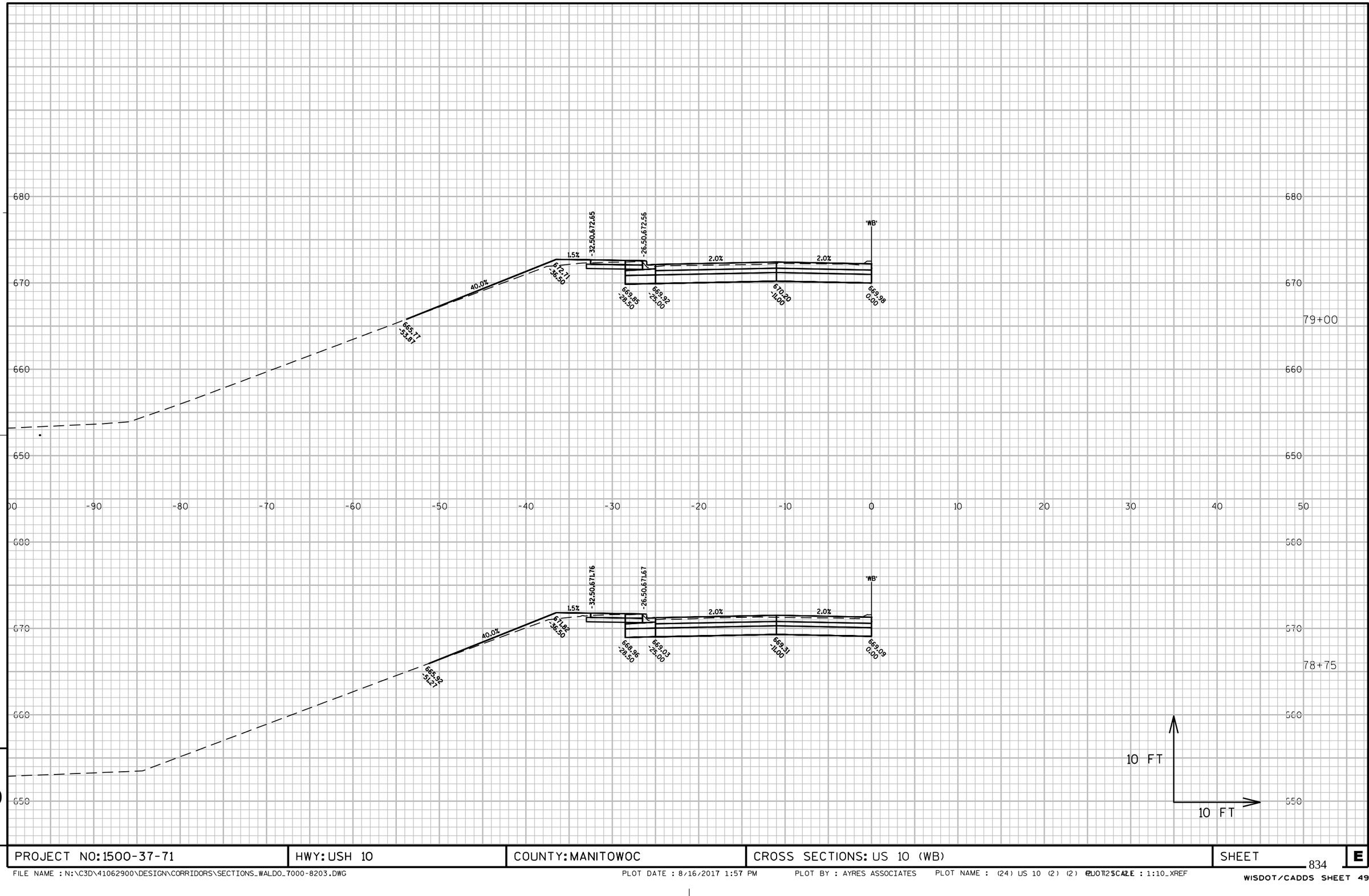
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_7000-8203.DWG PLOT DATE : 8/16/2017 1:56 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (24) US 10 (2) (2) PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET 833	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_7000-8203.DWG PLOT DATE : 8/16/2017 1:57 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (24) US 10 (2) (2) PLOT SCALE : 1:10_XREF

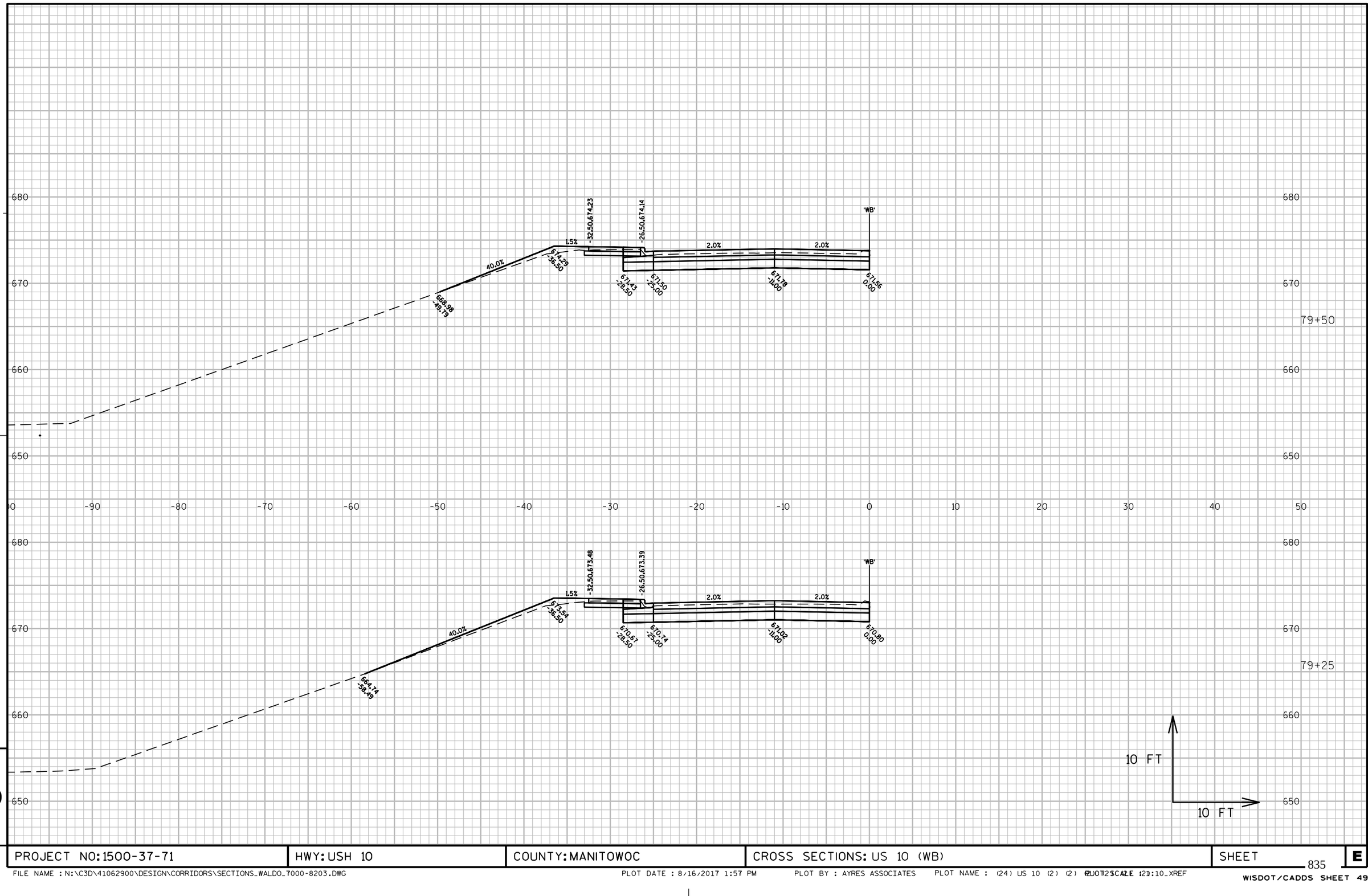


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET	E

834

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_7000-8203.DWG PLOT DATE : 8/16/2017 1:57 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (24) US 10 (2) (2) PLOT SCALE : 1:10_XREF

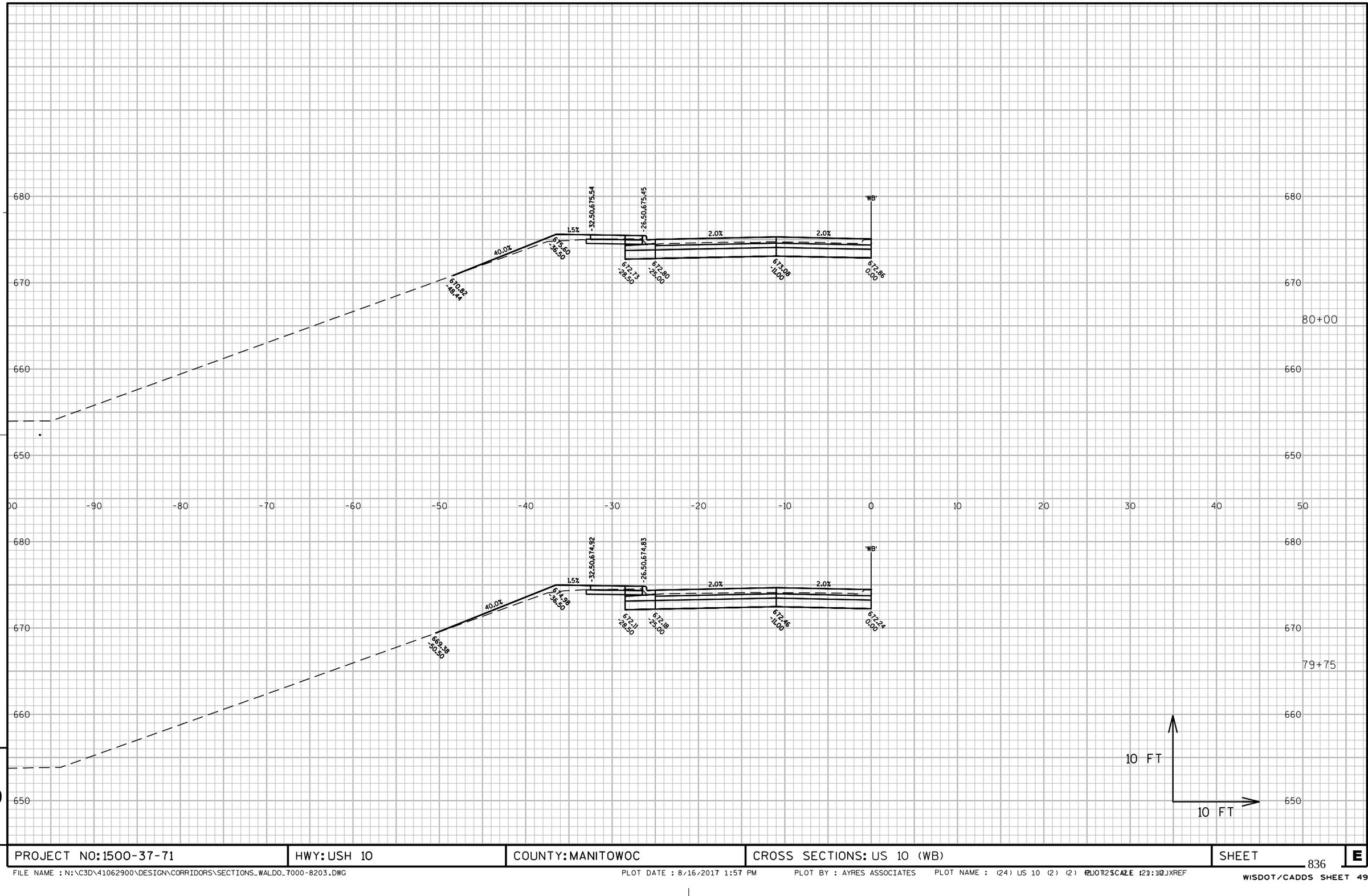
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET 835	E



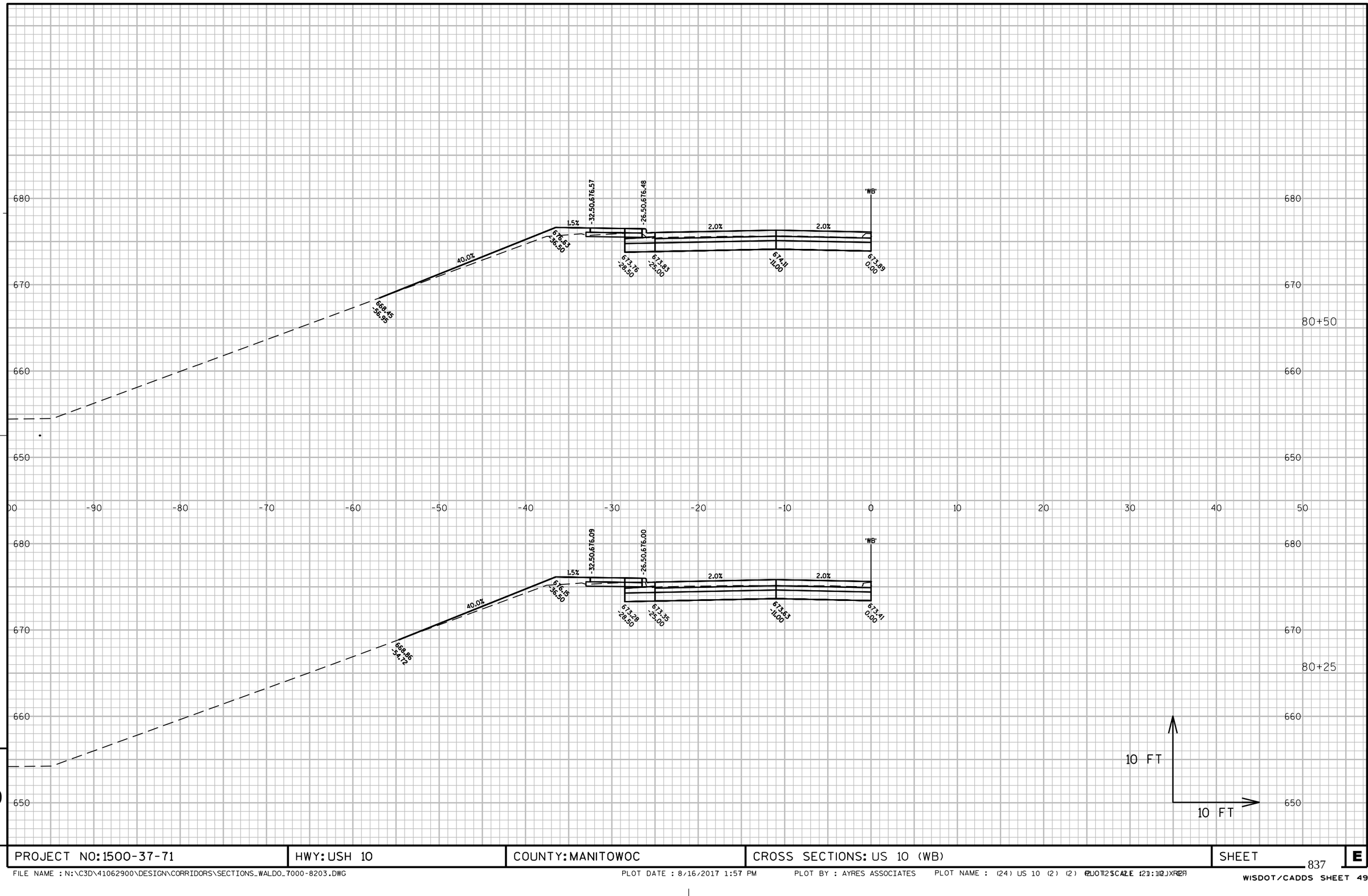
9

9

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET 836	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_7000-8203.DWG PLOT DATE : 8/16/2017 1:57 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (24) US 10 (2) (2) PLOT SCALE = 1.0000 XREF

WISDOT/CADDS SHEET 49



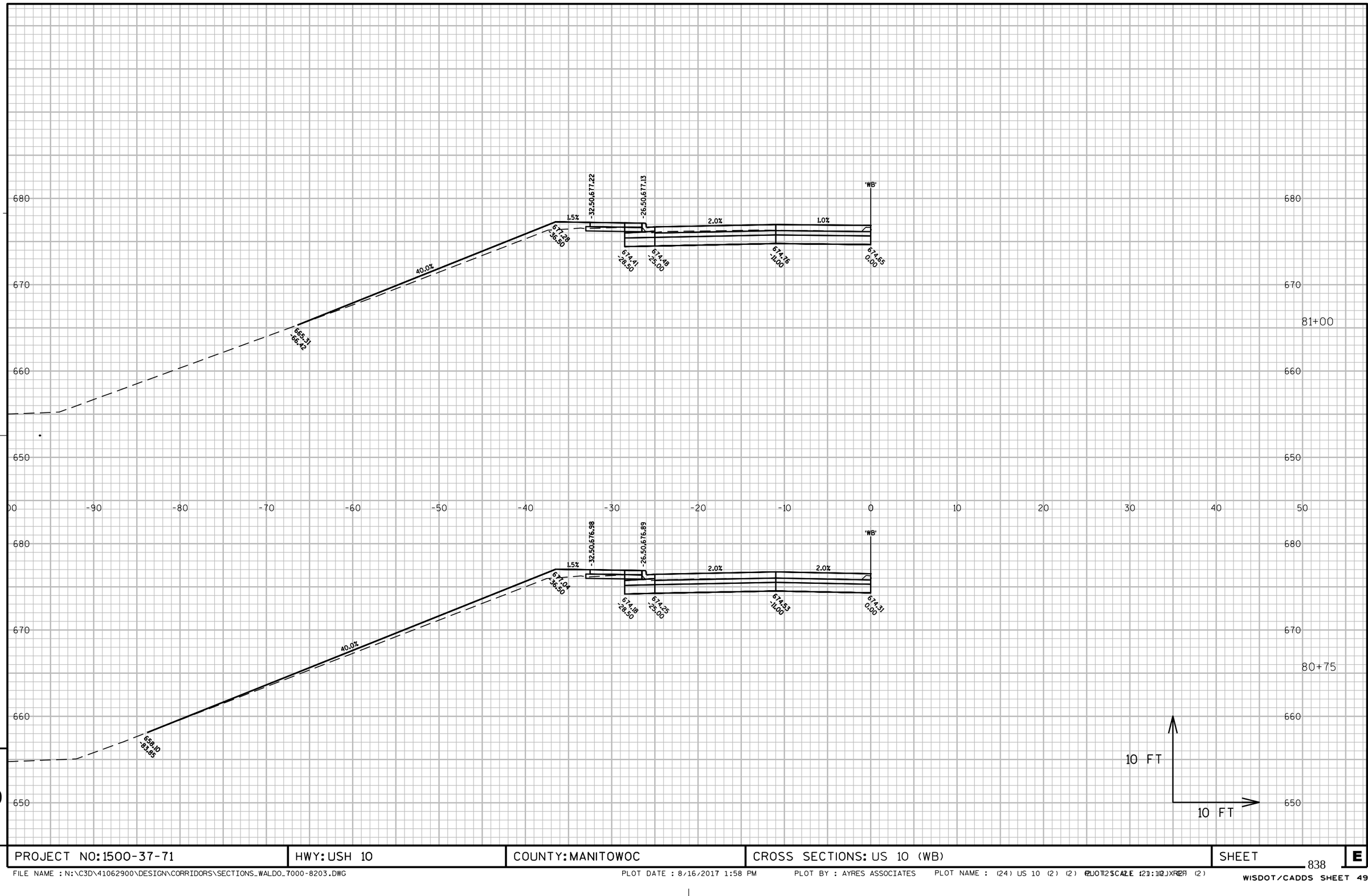
9

9

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET 837	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_7000-8203.DWG PLOT DATE : 8/16/2017 1:57 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (24) US 10 (2) (2) PLOT SCALE 1.0000 PLOT STYLE TABLE : XREF

WISDOT/CADDS SHEET 49



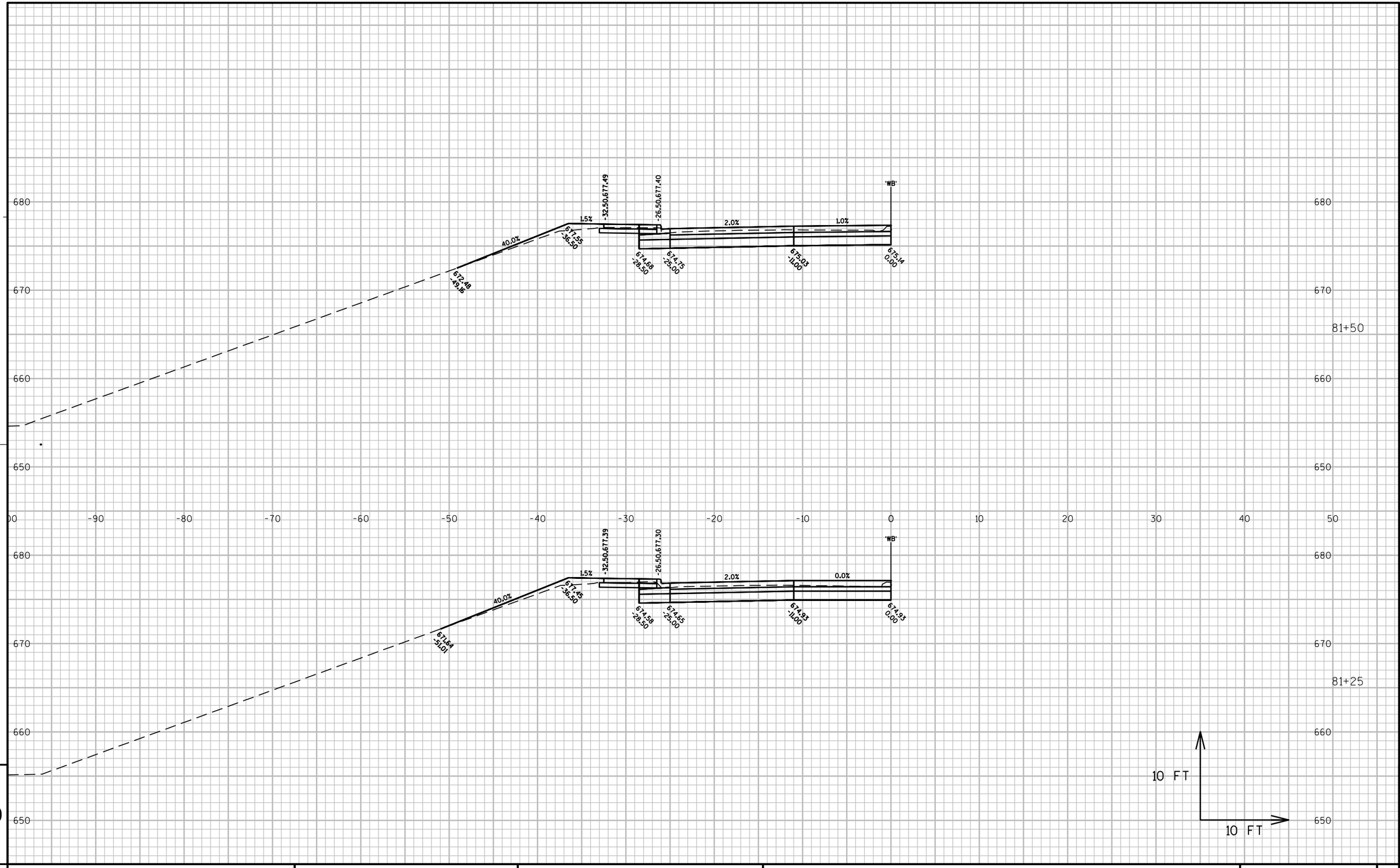
9

9

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET	E

838

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_7000-8203.DWG PLOT DATE : 8/16/2017 1:58 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (24) US 10 (2) (2) PLOT SCALE : 1.0000 PLOT XREF (2)



9

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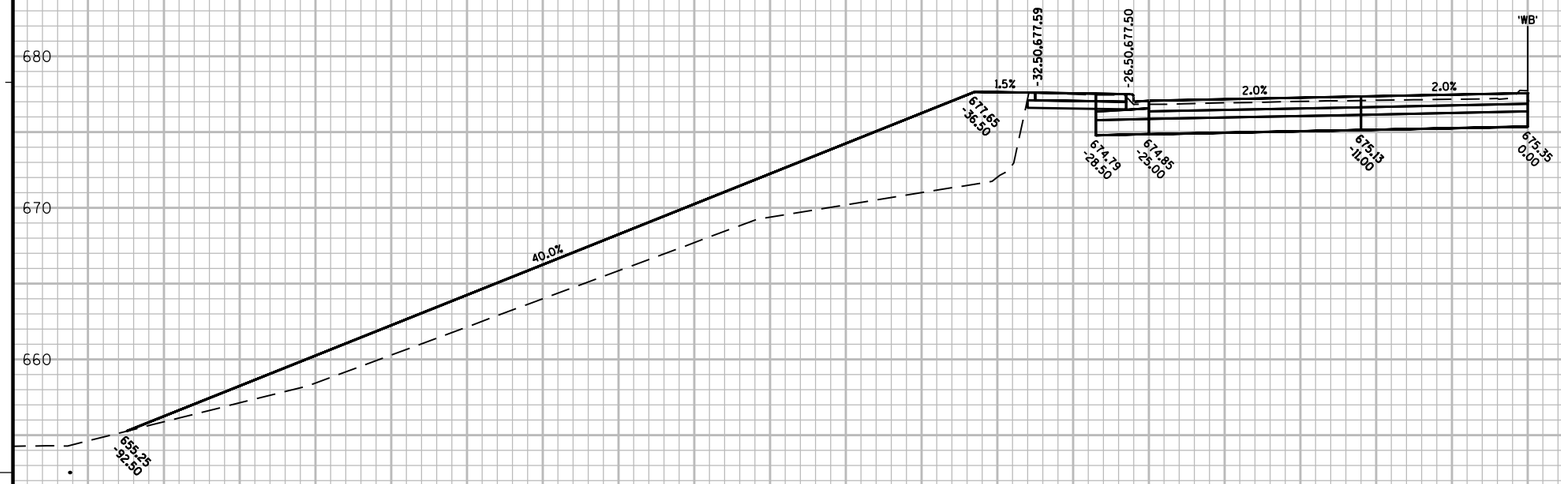
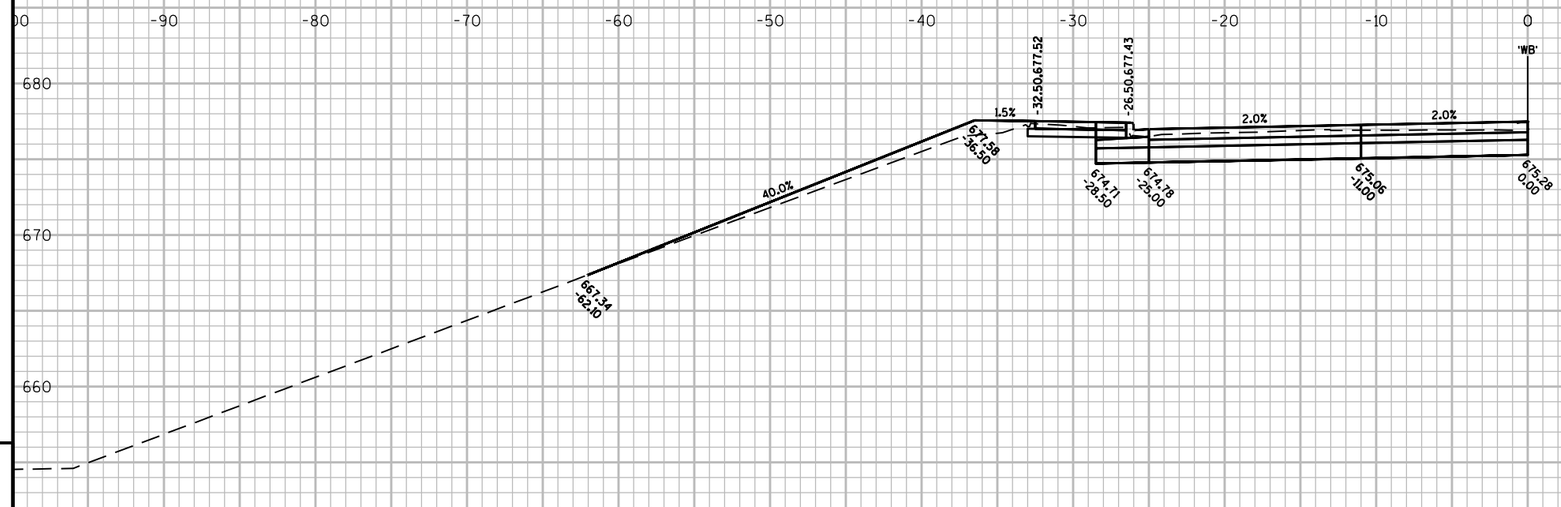
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_7000-8203.DWG PLOT DATE : 8/16/2017 1:58 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (24) US 10 (2) (2) PLOT SCALE : 1.0000 PLOT STYLE TABLE : (2) (2)

WISDOT/CADDS SHEET 49

STRUCTURE B-36-29
STA. 83+35





82+00

81+75

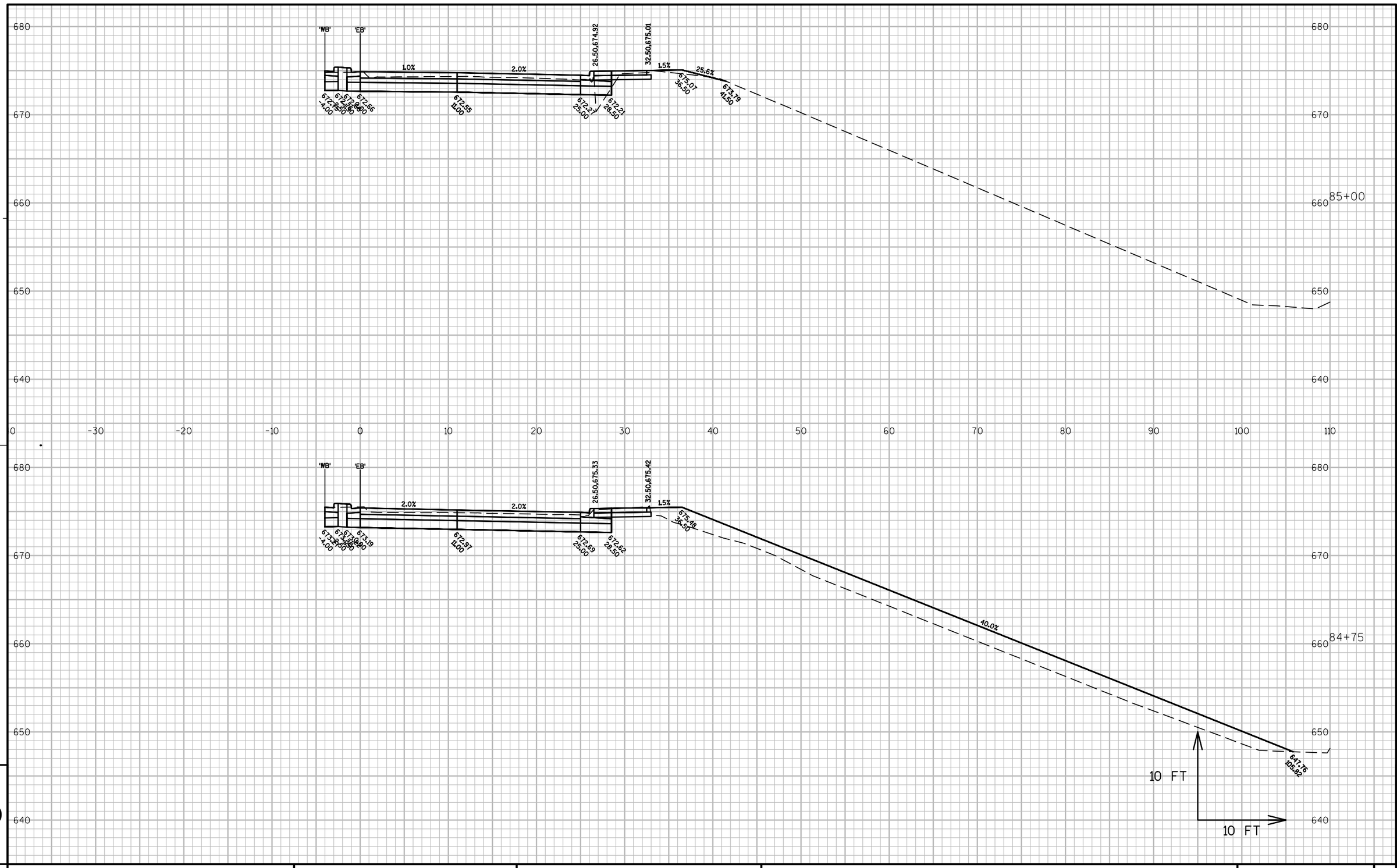
10 FT

10 FT

9

9

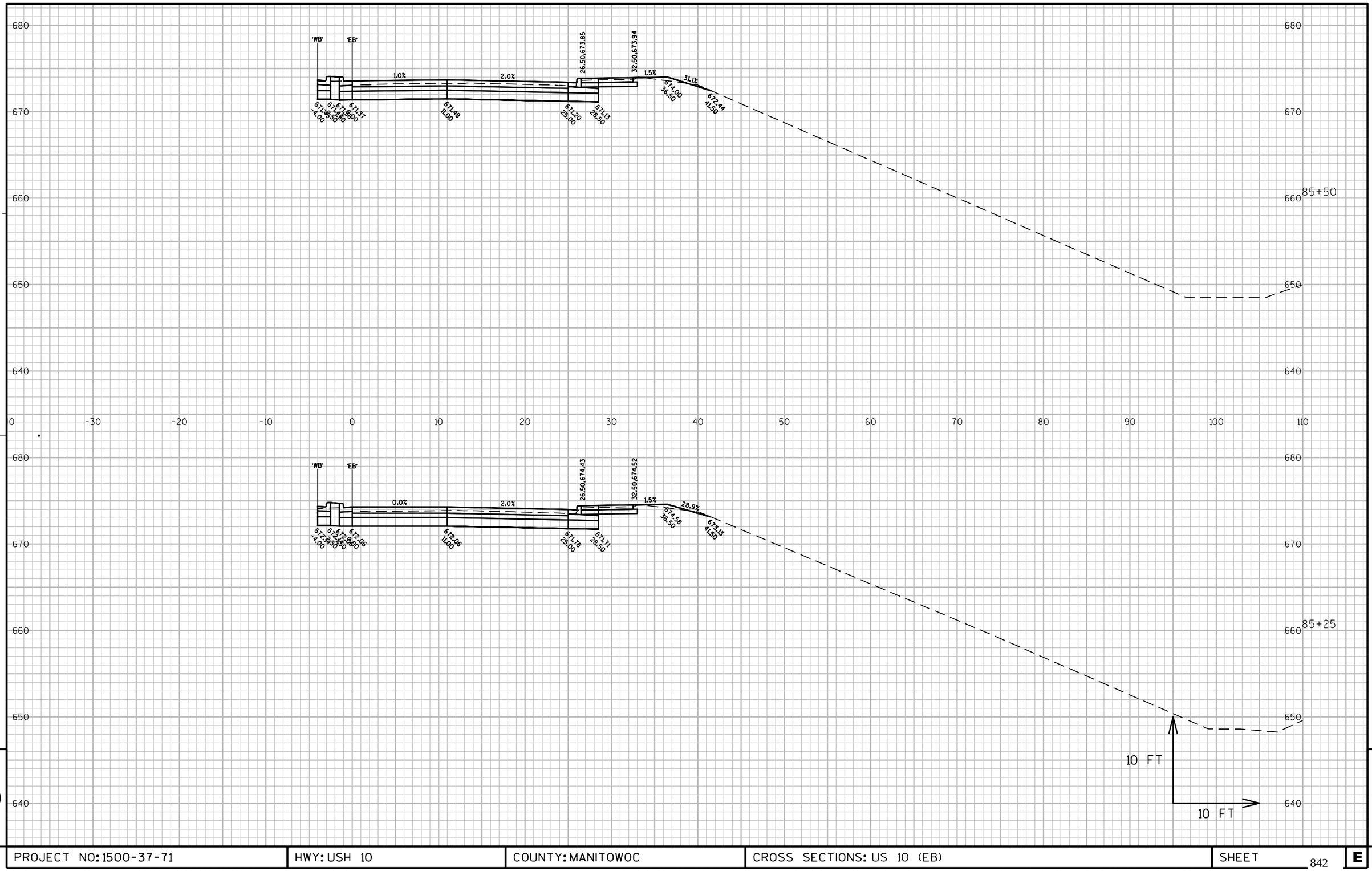
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET 840	E



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (EB)

PLOT DATE : 8/16/2017 1:59 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1) - US 10 (EB) PLOT SCALE : 1 IN:10 FT



9

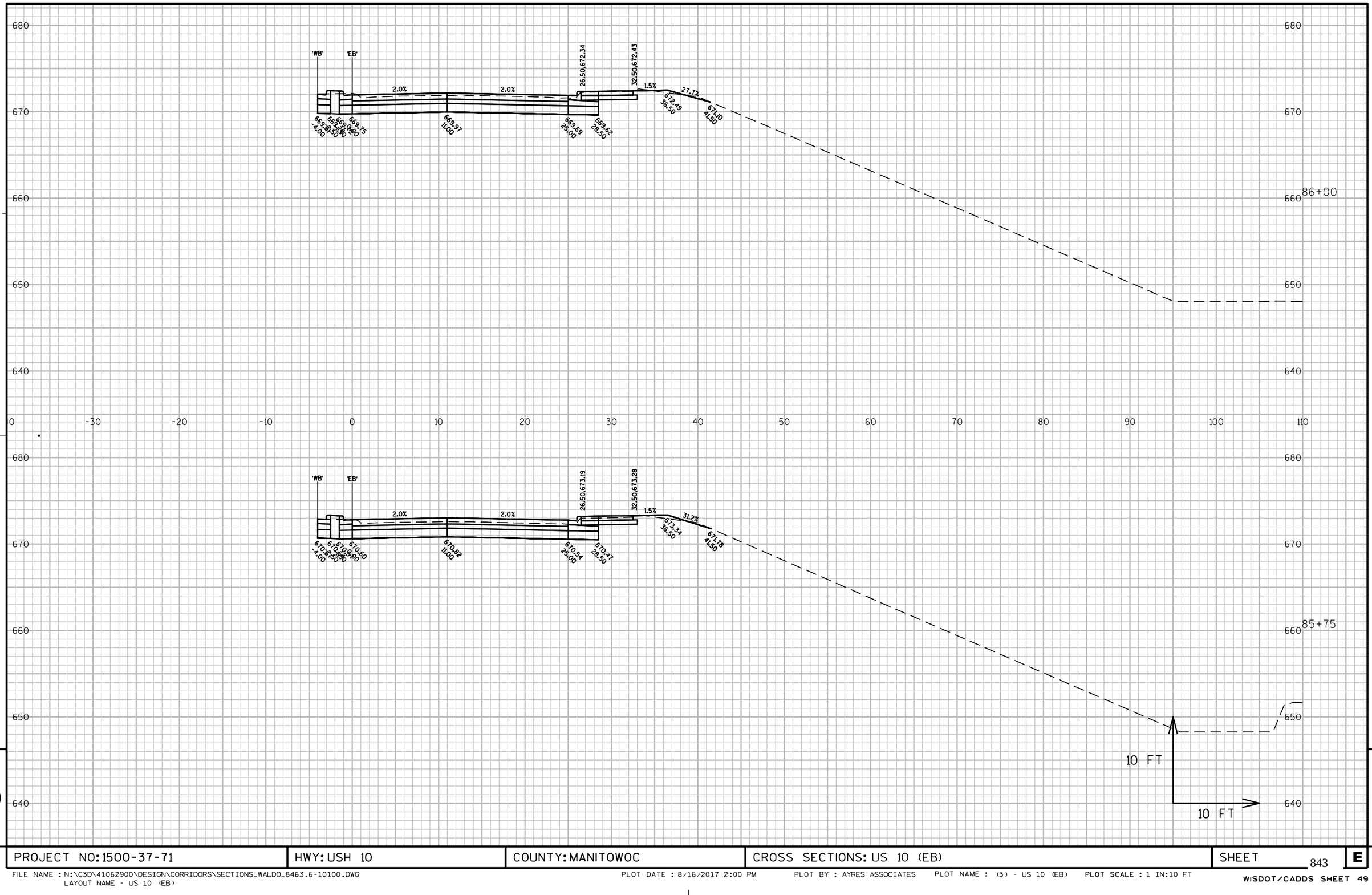
9

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 842	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (EB)

PLOT DATE : 8/16/2017 1:59 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (2) - US 10 (EB) PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

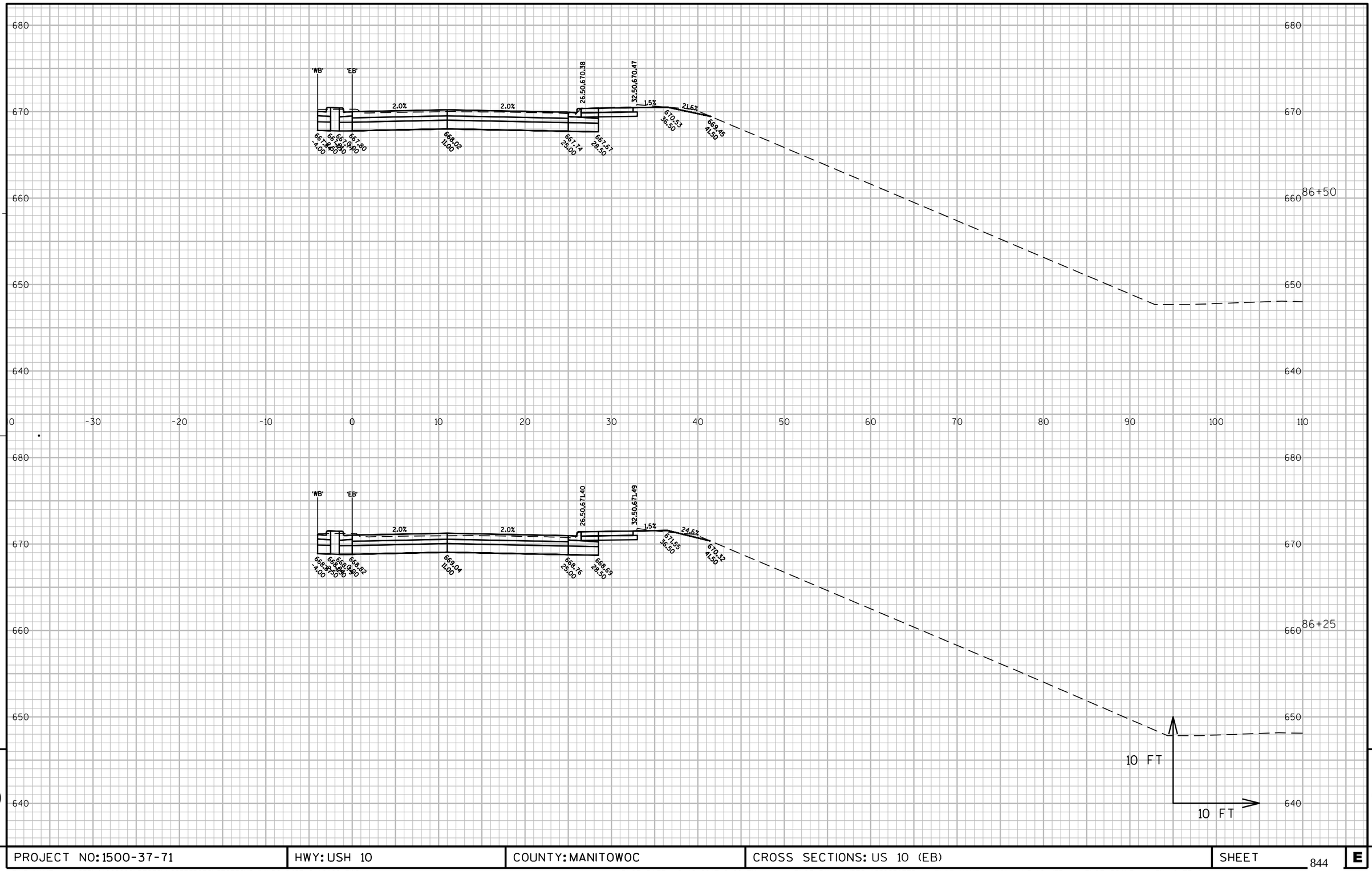


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 843	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (EB)

PLOT DATE : 8/16/2017 2:00 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (3) - US 10 (EB) PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

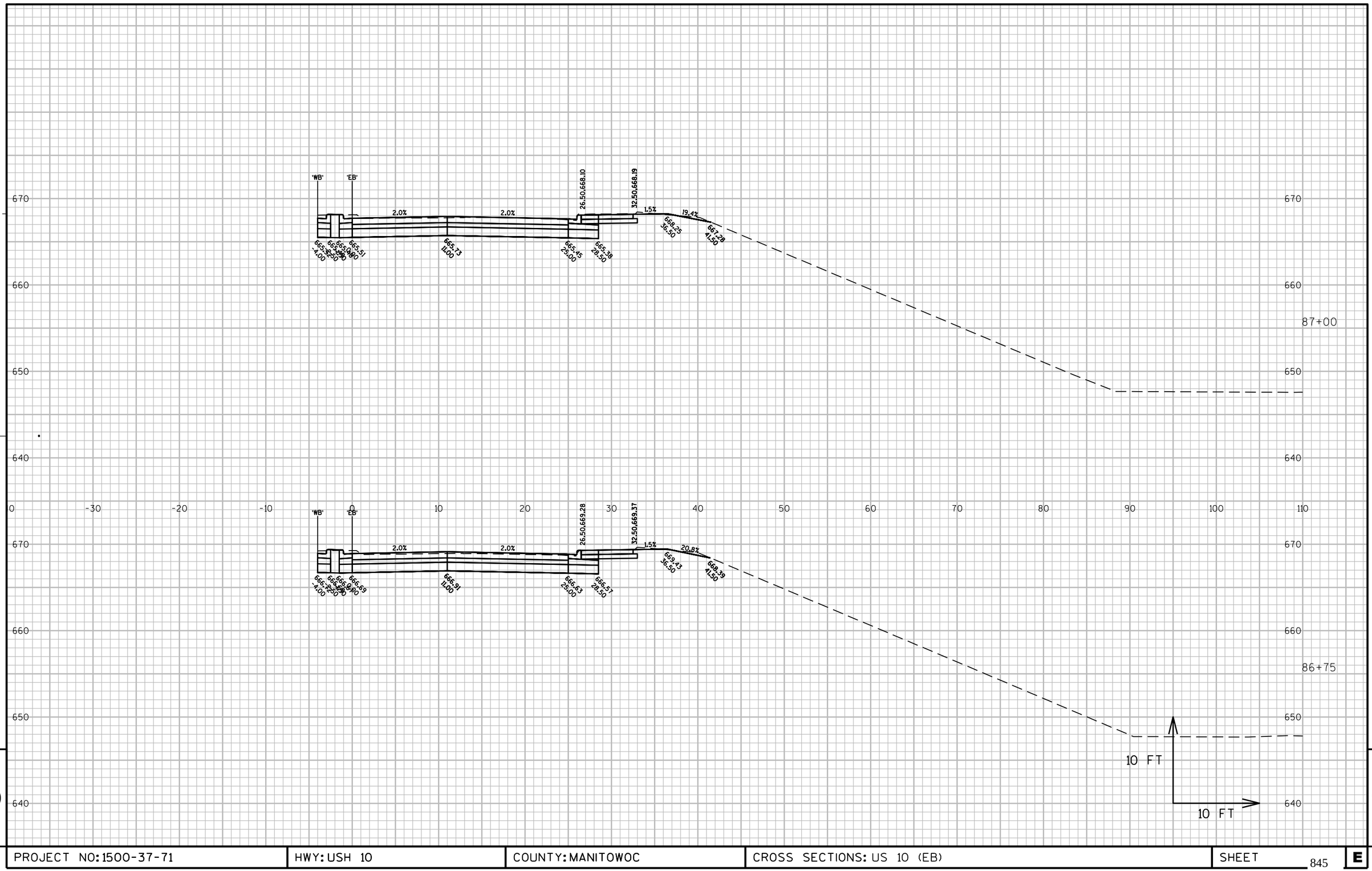


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 844	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (EB)

PLOT DATE : 8/16/2017 2:00 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (4) - US 10 (EB) PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

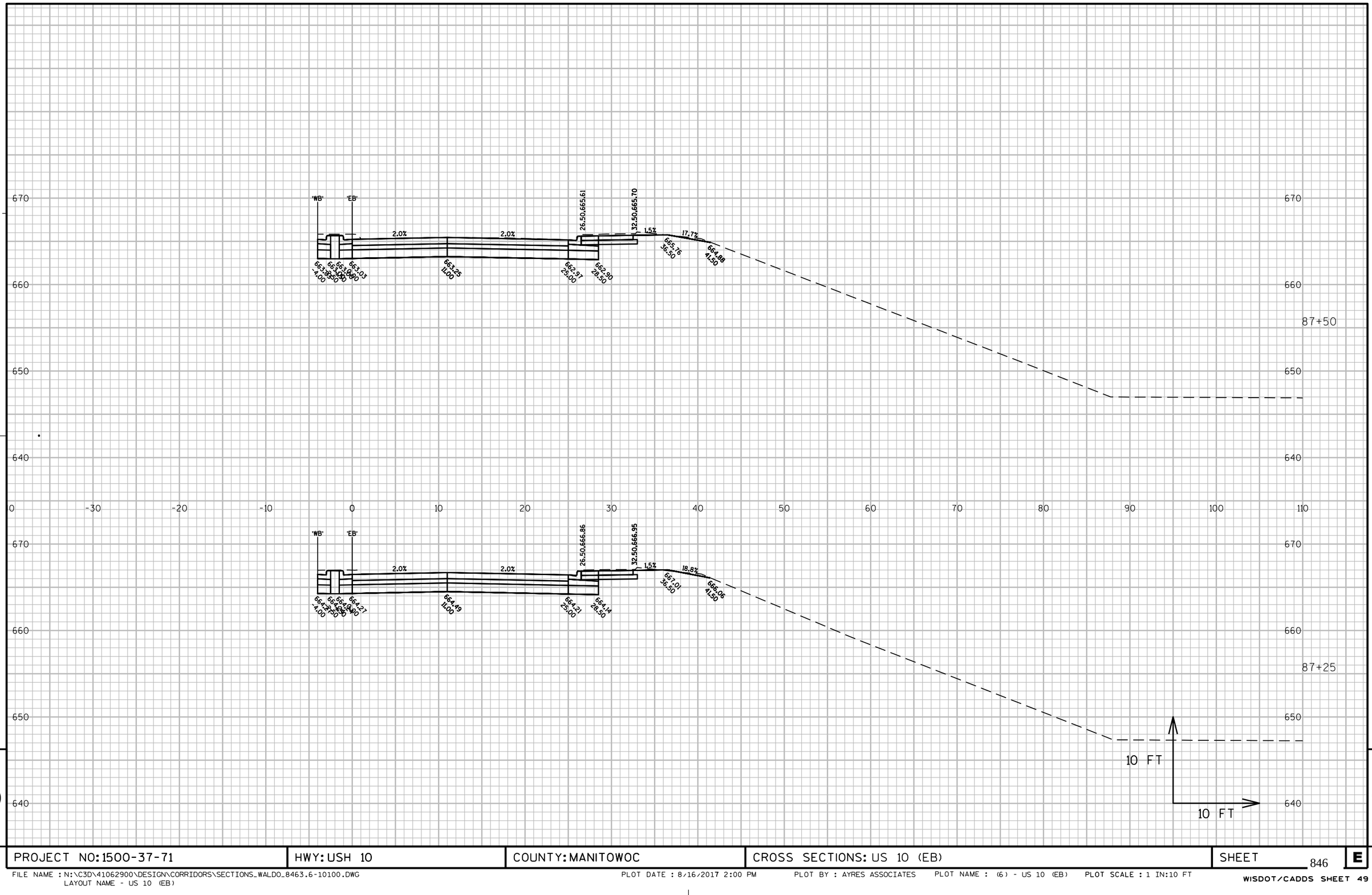


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 845	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (EB)

PLOT DATE : 8/16/2017 2:00 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (5) - US 10 (EB) PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

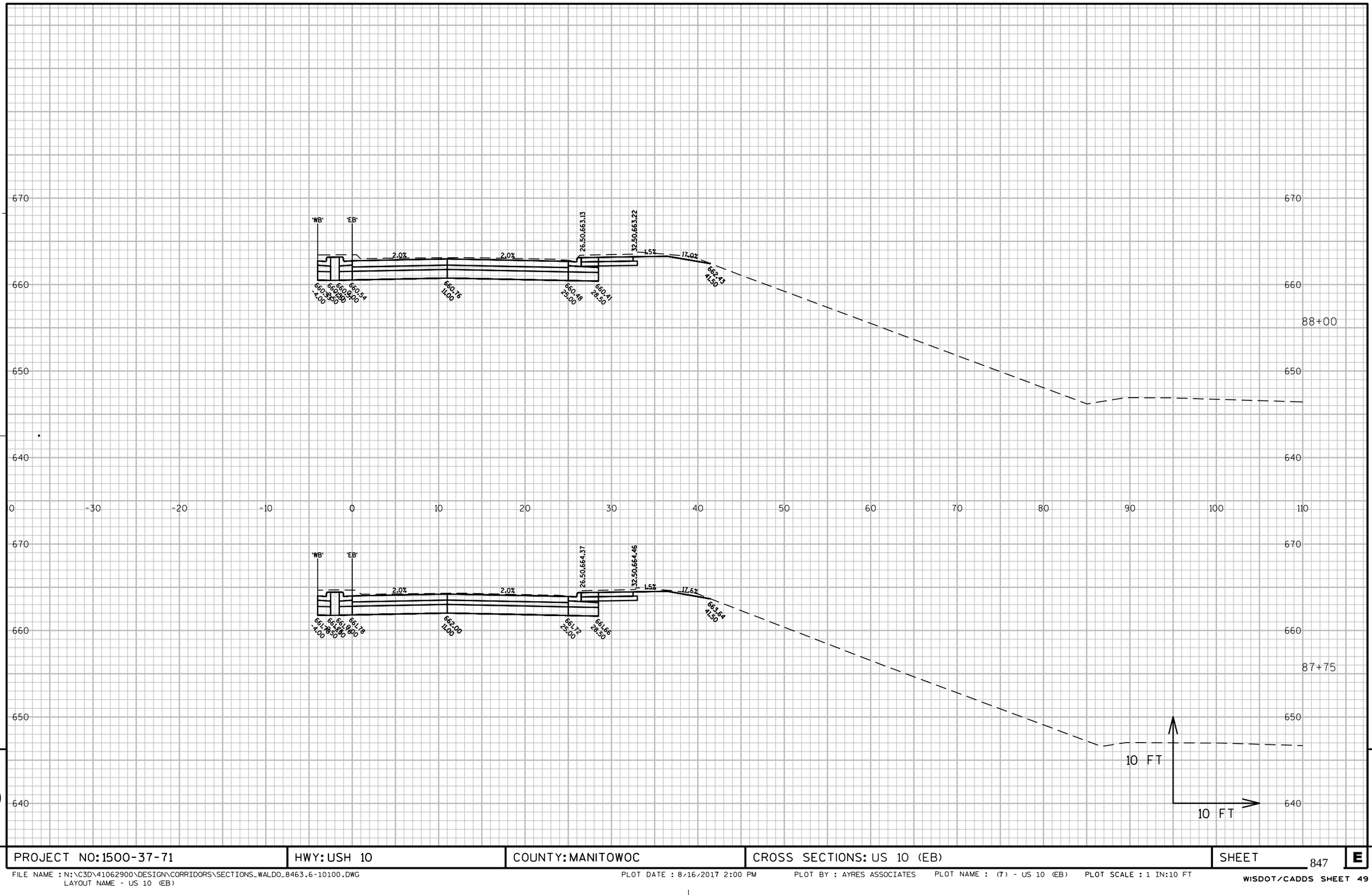


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 846	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (EB)

PLOT DATE : 8/16/2017 2:00 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (6) - US 10 (EB) PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

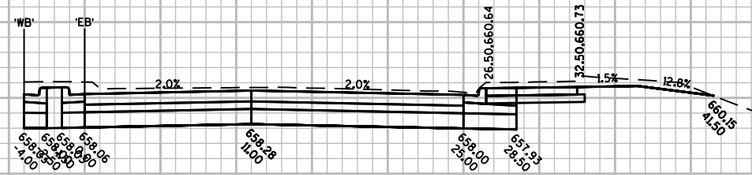


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 847	E

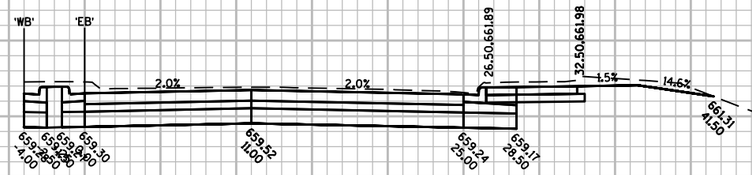
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (EB)

PLOT DATE : 8/16/2017 2:00 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (7) - US 10 (EB) PLOT SCALE : 1 IN:10 FT

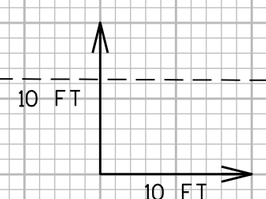
WISDOT/CADDS SHEET 49



88+50



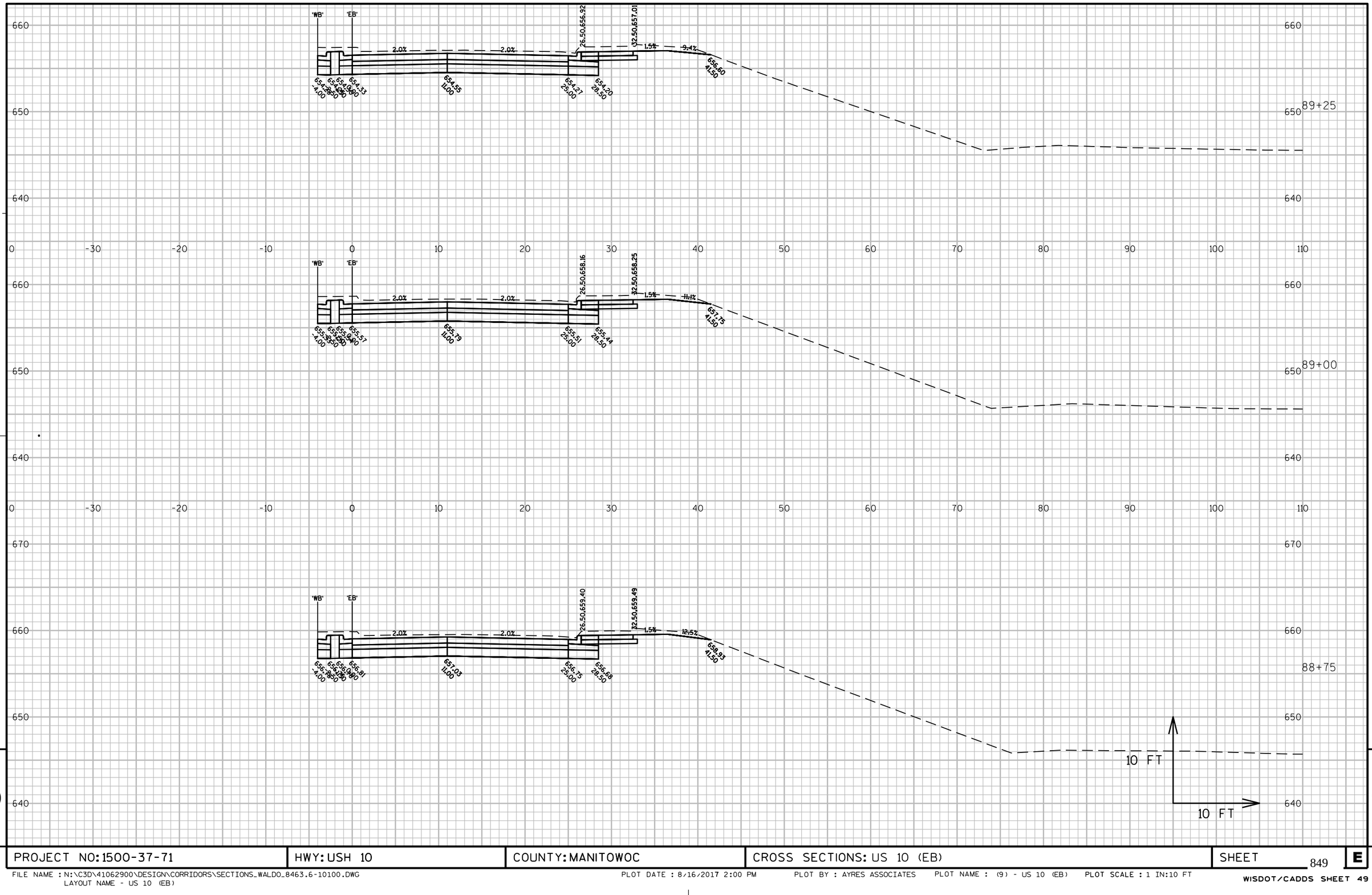
88+25



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 848	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (EB)

PLOT DATE : 8/16/2017 2:00 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (8) - US 10 (EB) PLOT SCALE : 1 IN:10 FT



9

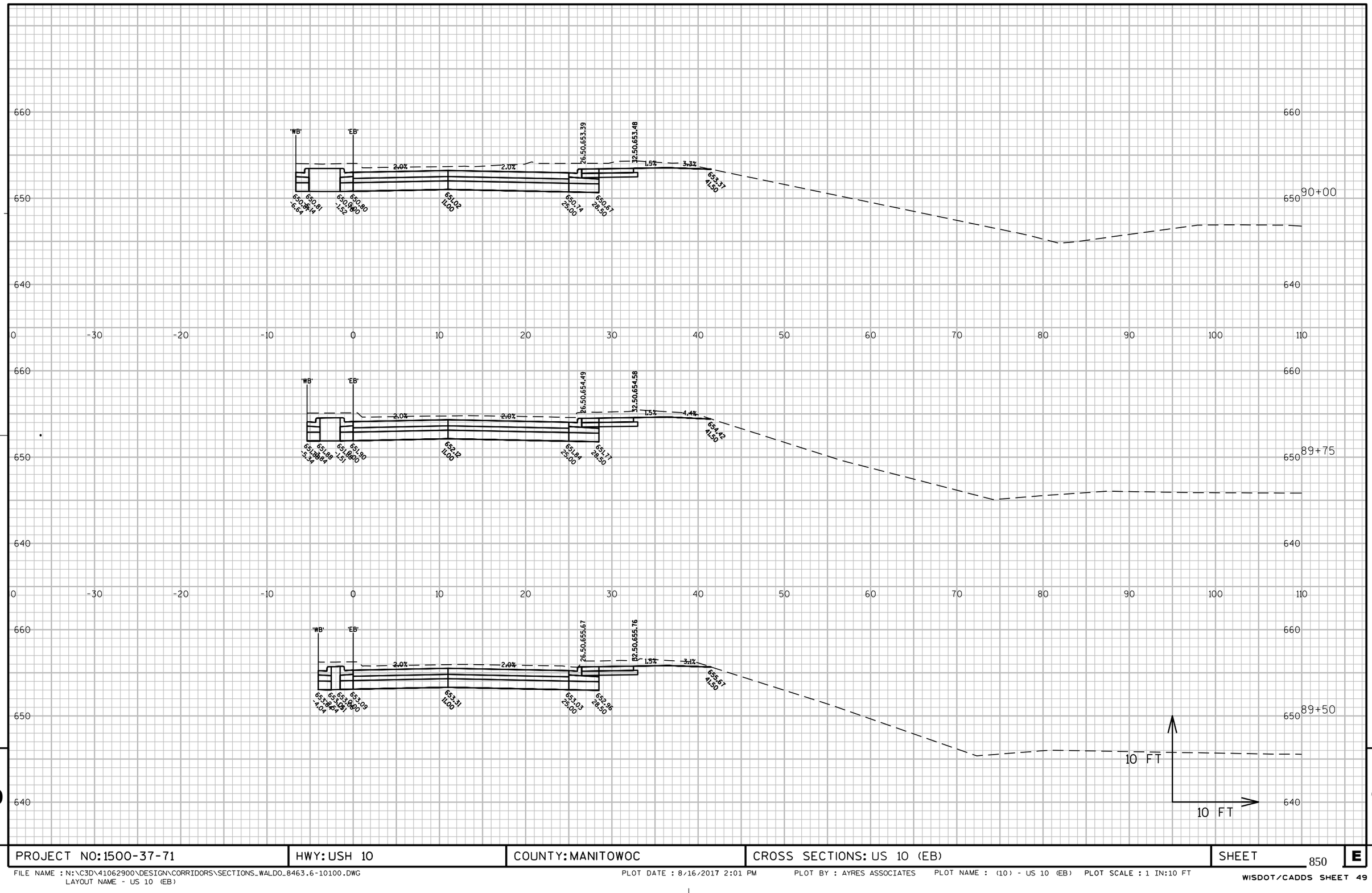
9

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 849	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (EB)

PLOT DATE : 8/16/2017 2:00 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (9) - US 10 (EB) PLOT SCALE : 1 IN:10 FT

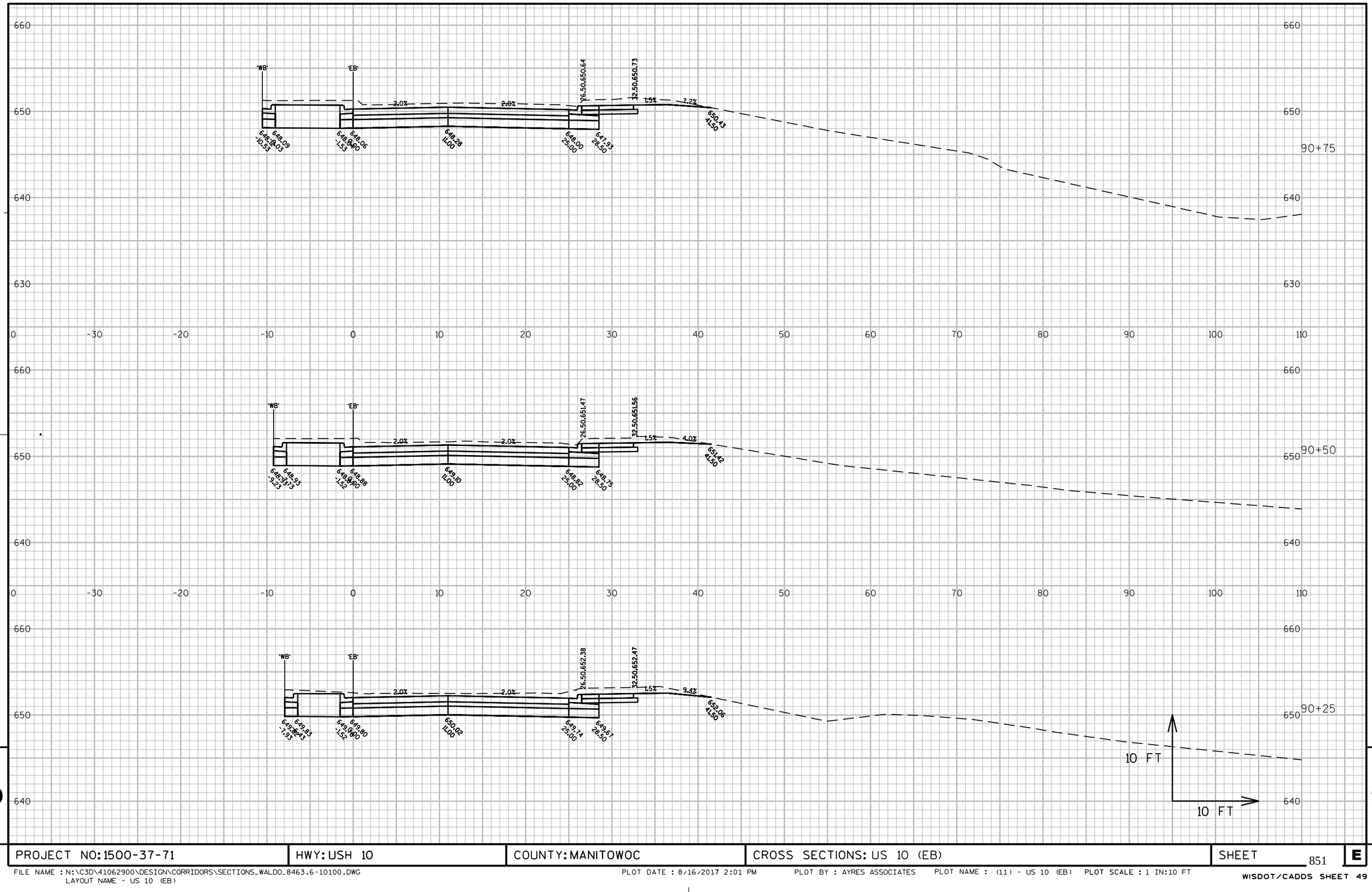
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 850	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (EB)

PLOT DATE : 8/16/2017 2:01 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (10) - US 10 (EB) PLOT SCALE : 1 IN:10 FT

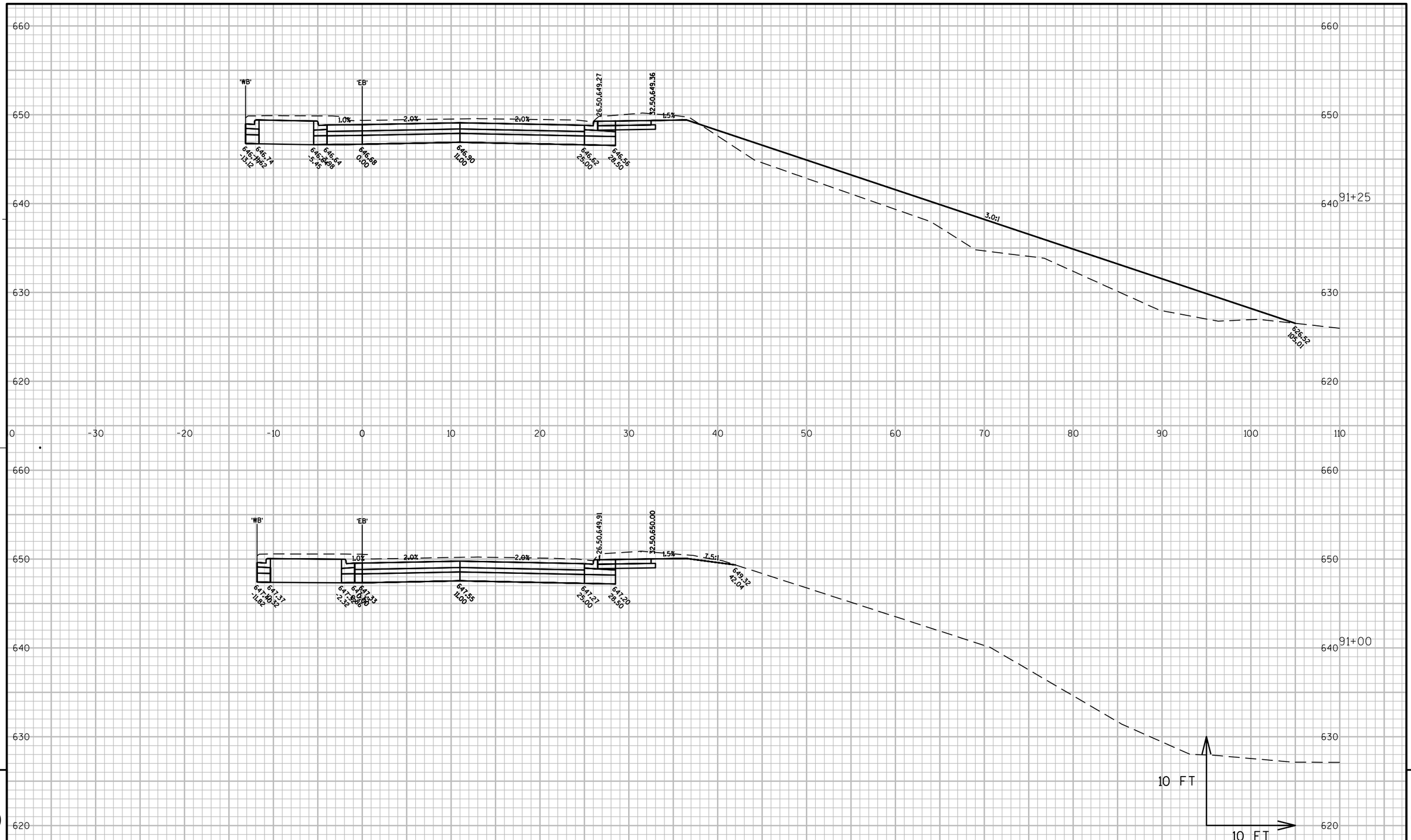


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 851	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (EB)

PLOT DATE : 8/16/2017 2:01 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (11) - US 10 (EB) PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

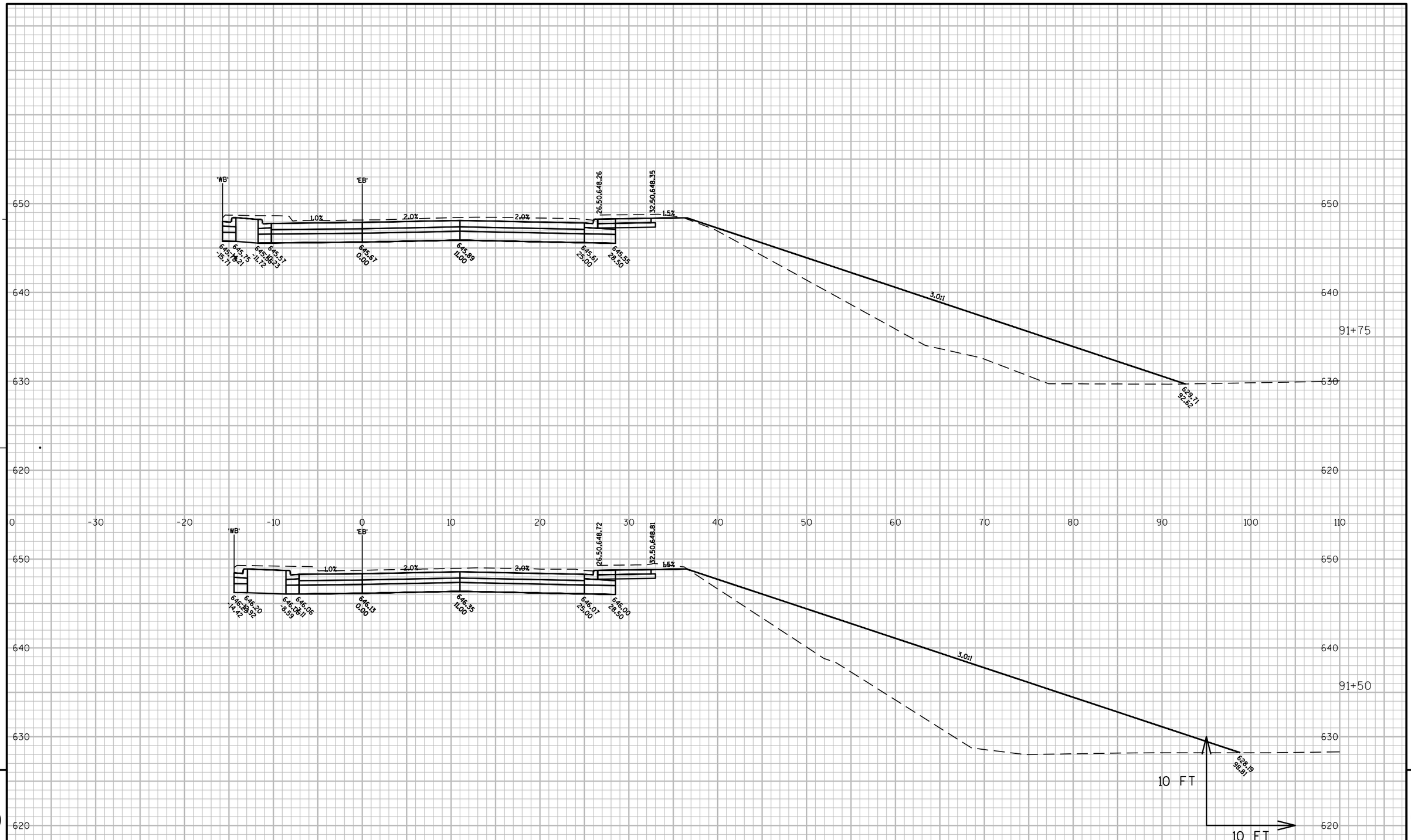


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 852	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (EB)

PLOT DATE : 8/16/2017 2:01 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (12) - US 10 (EB) PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

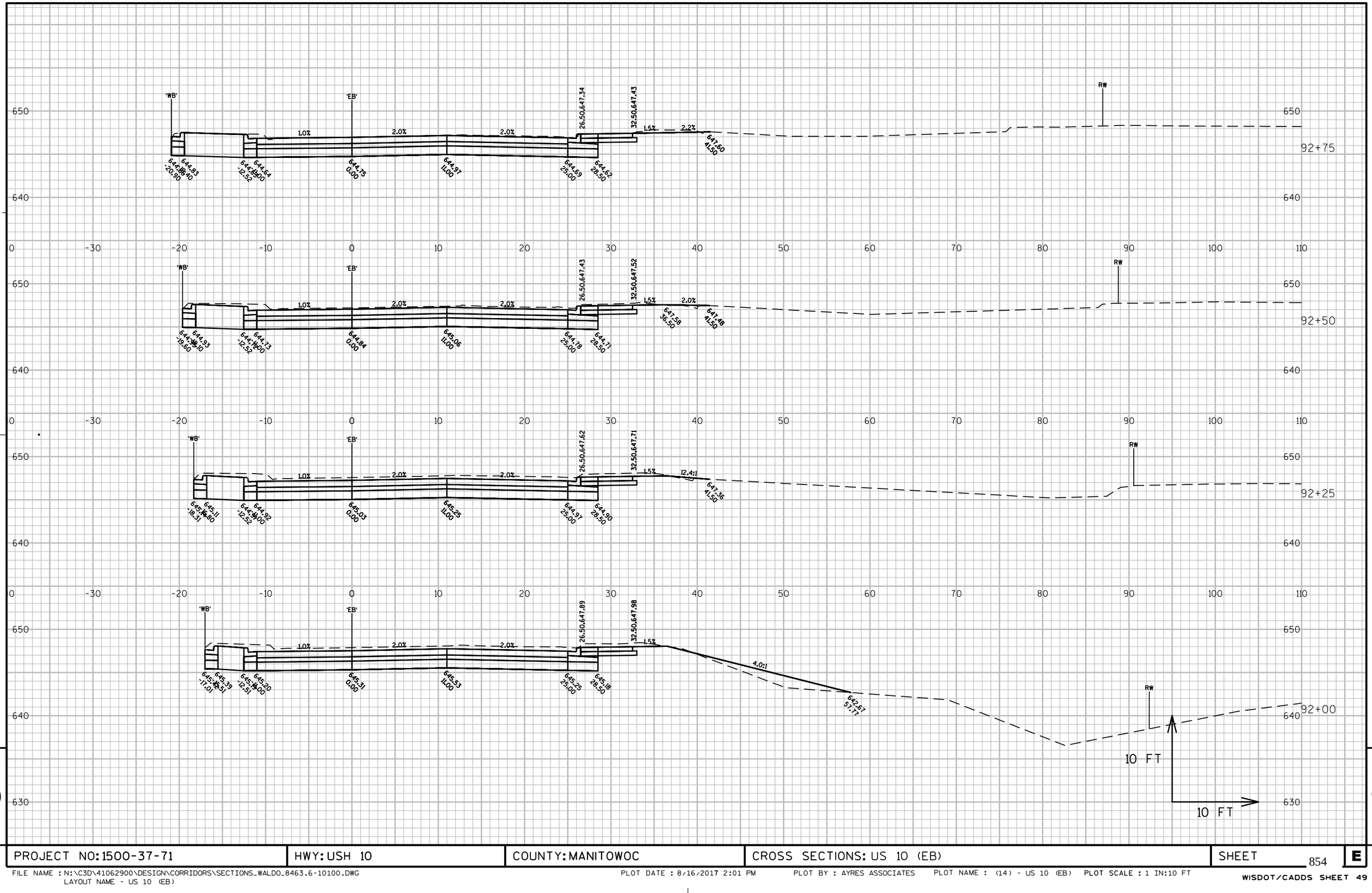


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 853	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (EB)

PLOT DATE : 8/16/2017 2:01 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (13) - US 10 (EB) PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

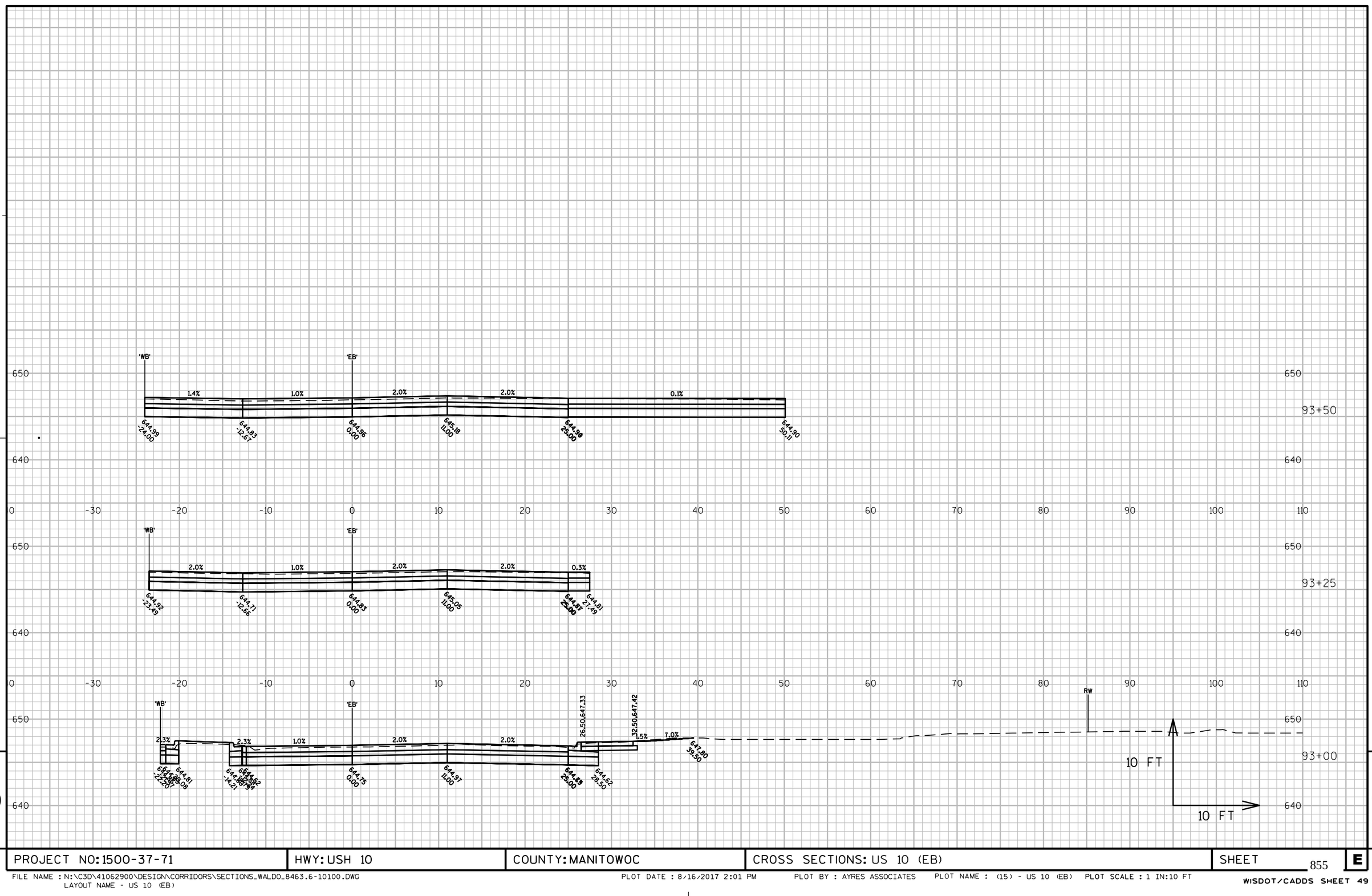


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 854	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (EB)

PLOT DATE : 8/16/2017 2:01 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (14) - US 10 (EB) PLOT SCALE : 1 IN:10 FT

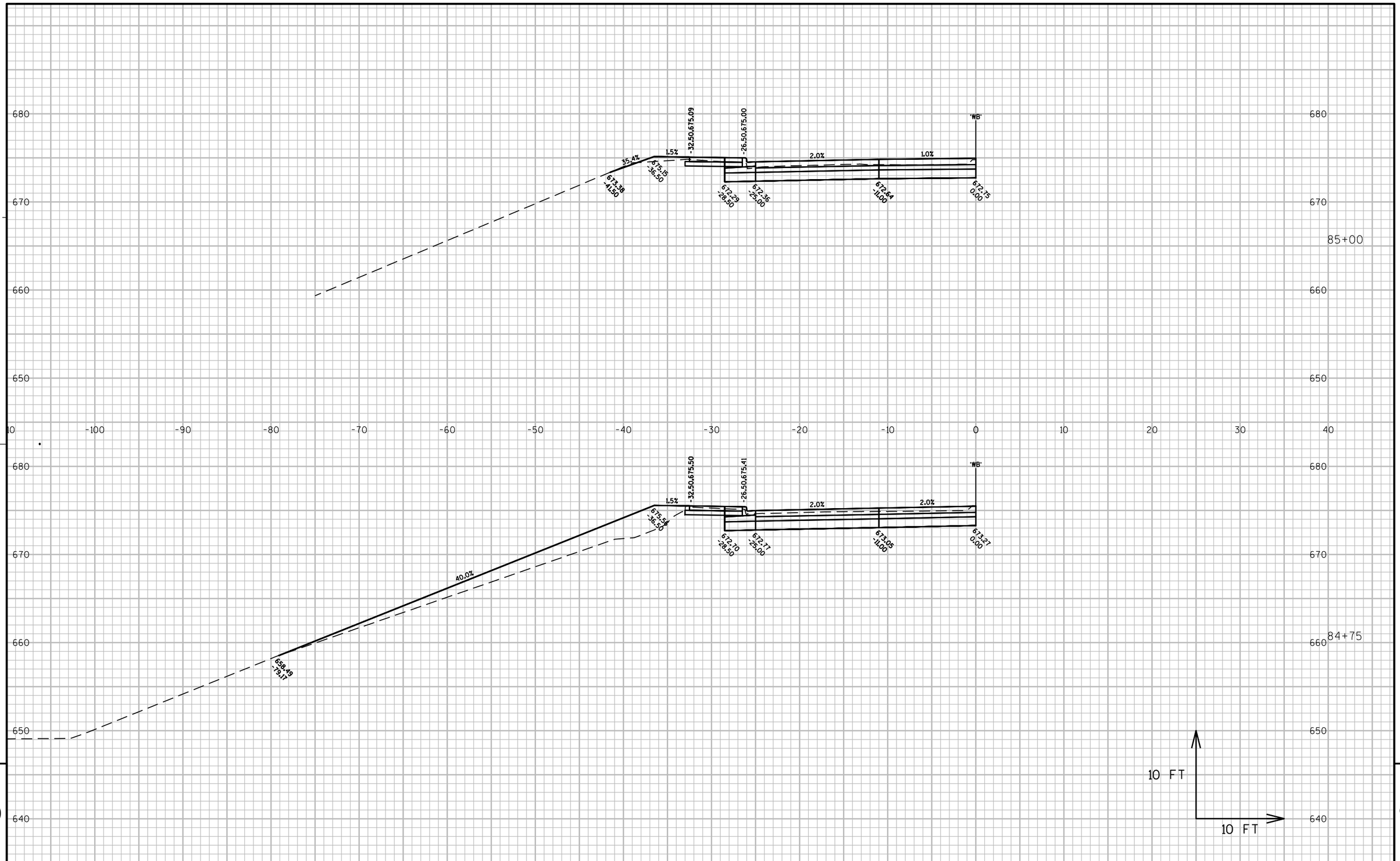
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (EB)	SHEET 855	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (EB)

PLOT DATE : 8/16/2017 2:01 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (15) - US 10 (EB) PLOT SCALE : 1 IN:10 FT

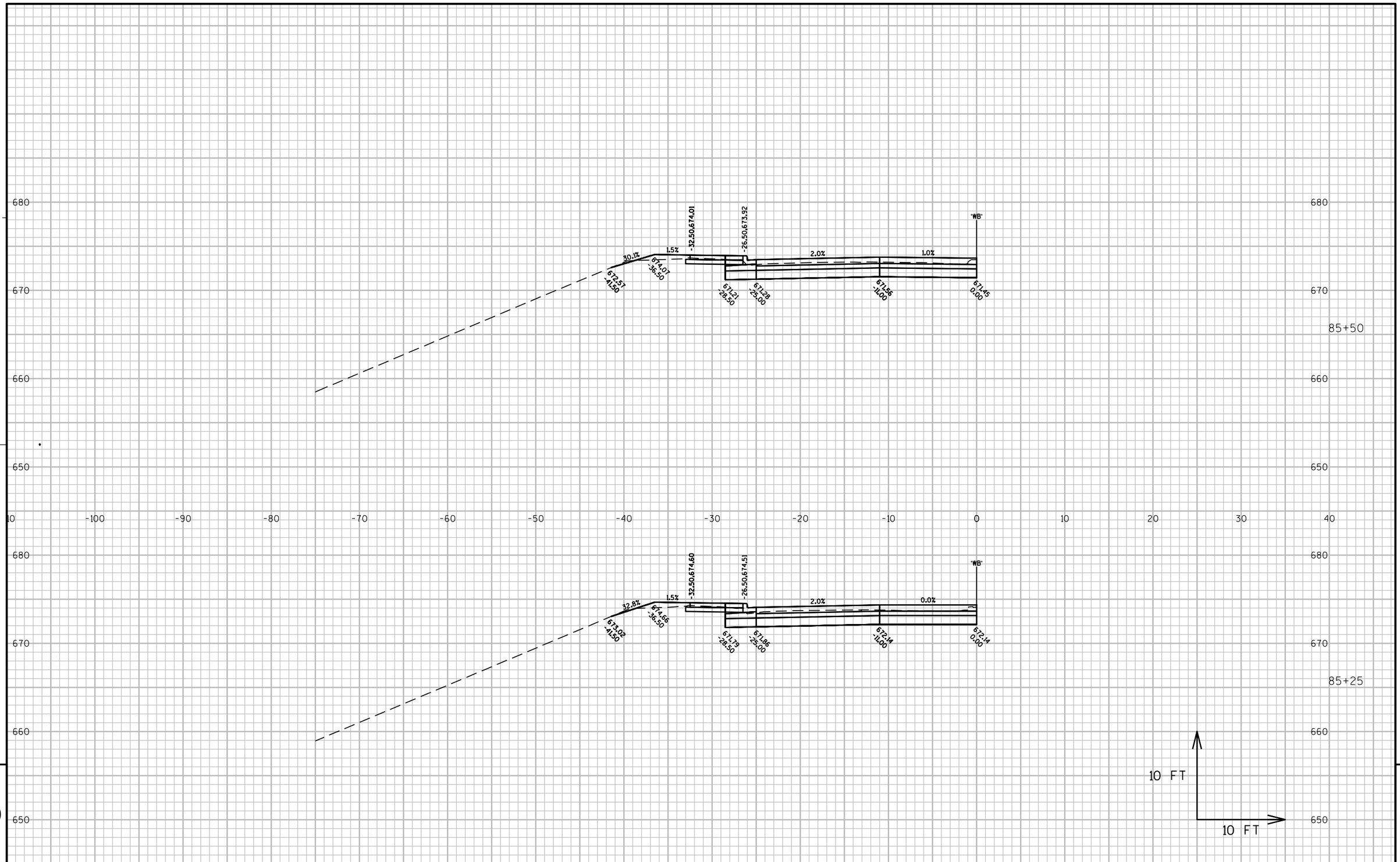


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET 856	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (WB)

PLOT DATE : 8/16/2017 2:01 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1) US 10 (WB) PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

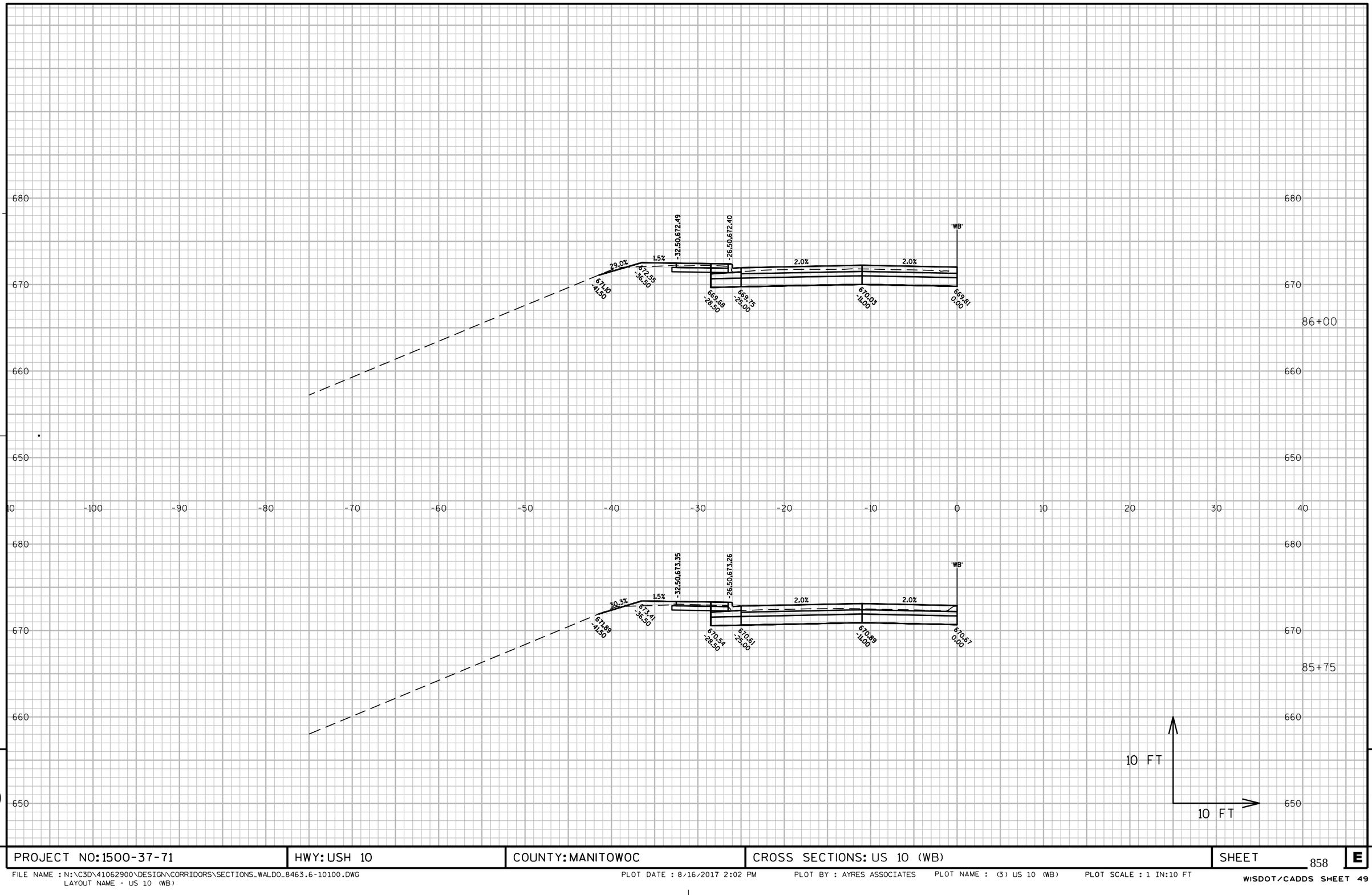


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET 857	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (WB)

PLOT DATE : 8/16/2017 2:01 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (2) US 10 (WB) PLOT SCALE : 1 IN:10 FT

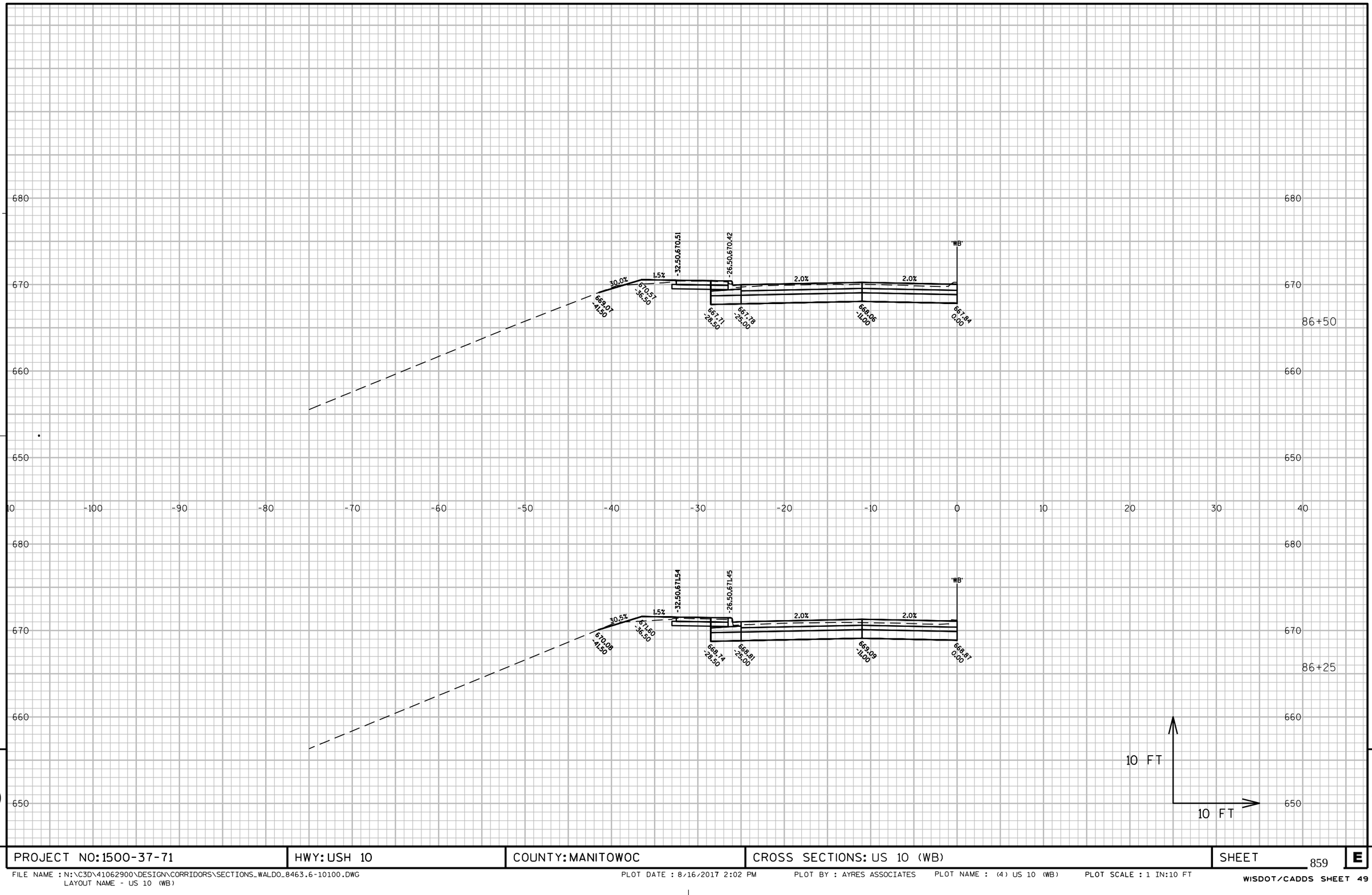
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET 858	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (WB)

PLOT DATE : 8/16/2017 2:02 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (3) US 10 (WB) PLOT SCALE : 1 IN:10 FT

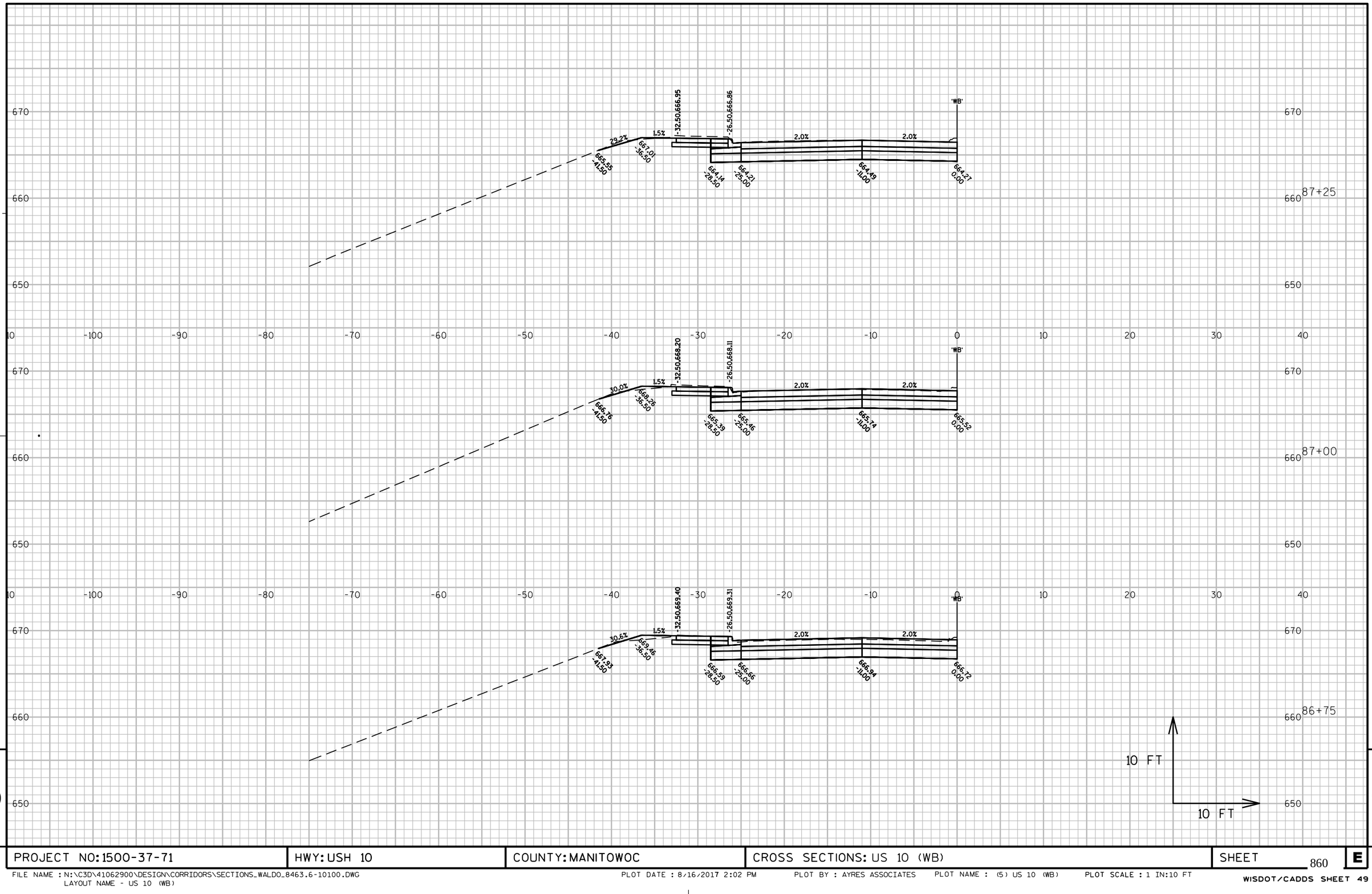


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET 859	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (WB)

PLOT DATE : 8/16/2017 2:02 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (4) US 10 (WB) PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET 860	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (WB)

PLOT DATE : 8/16/2017 2:02 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (5) US 10 (WB) PLOT SCALE : 1 IN:10 FT

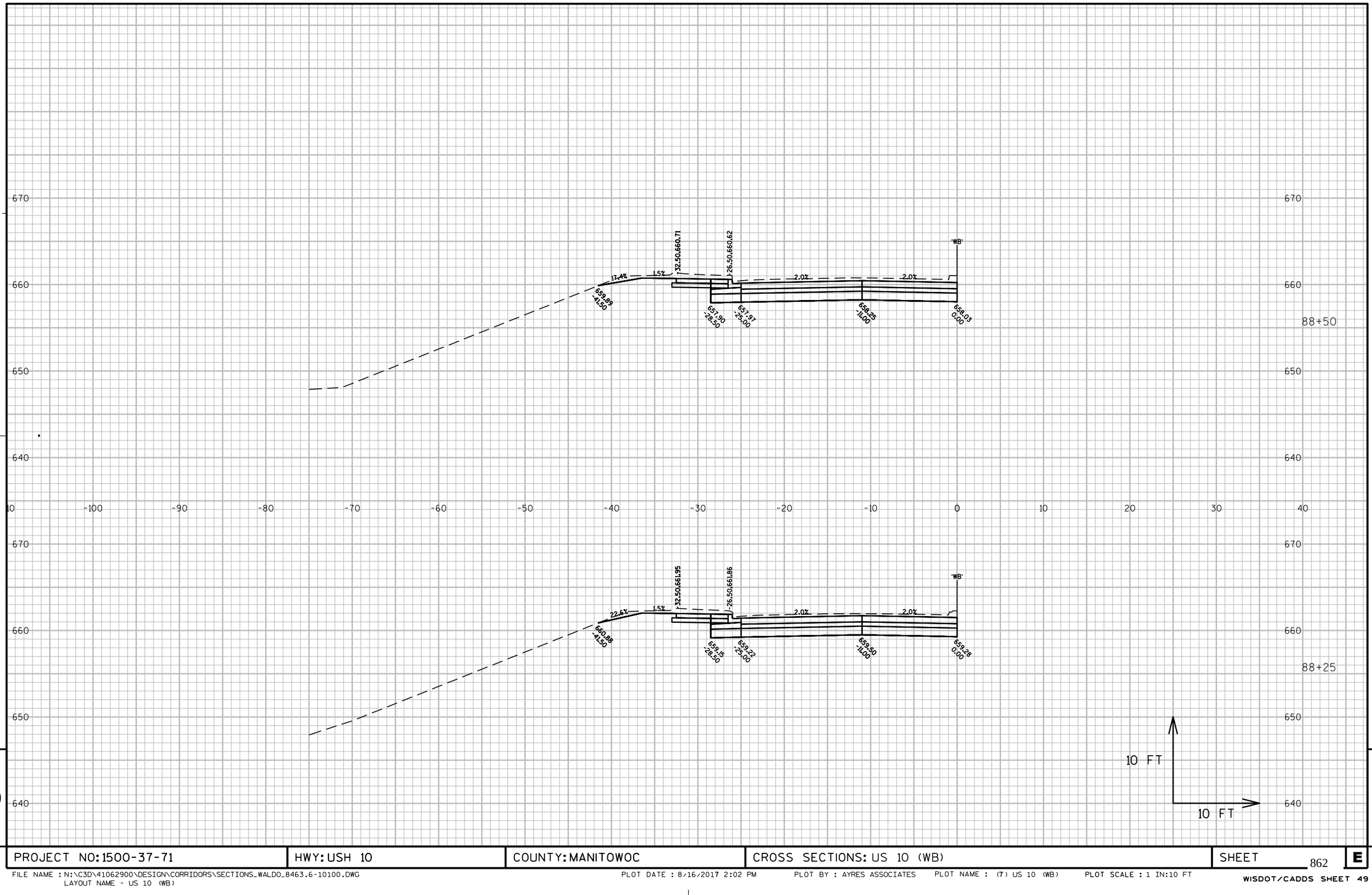
WISDOT/CADDS SHEET 49

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET 861	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (WB)

PLOT DATE : 8/16/2017 2:02 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (6) US 10 (WB) PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

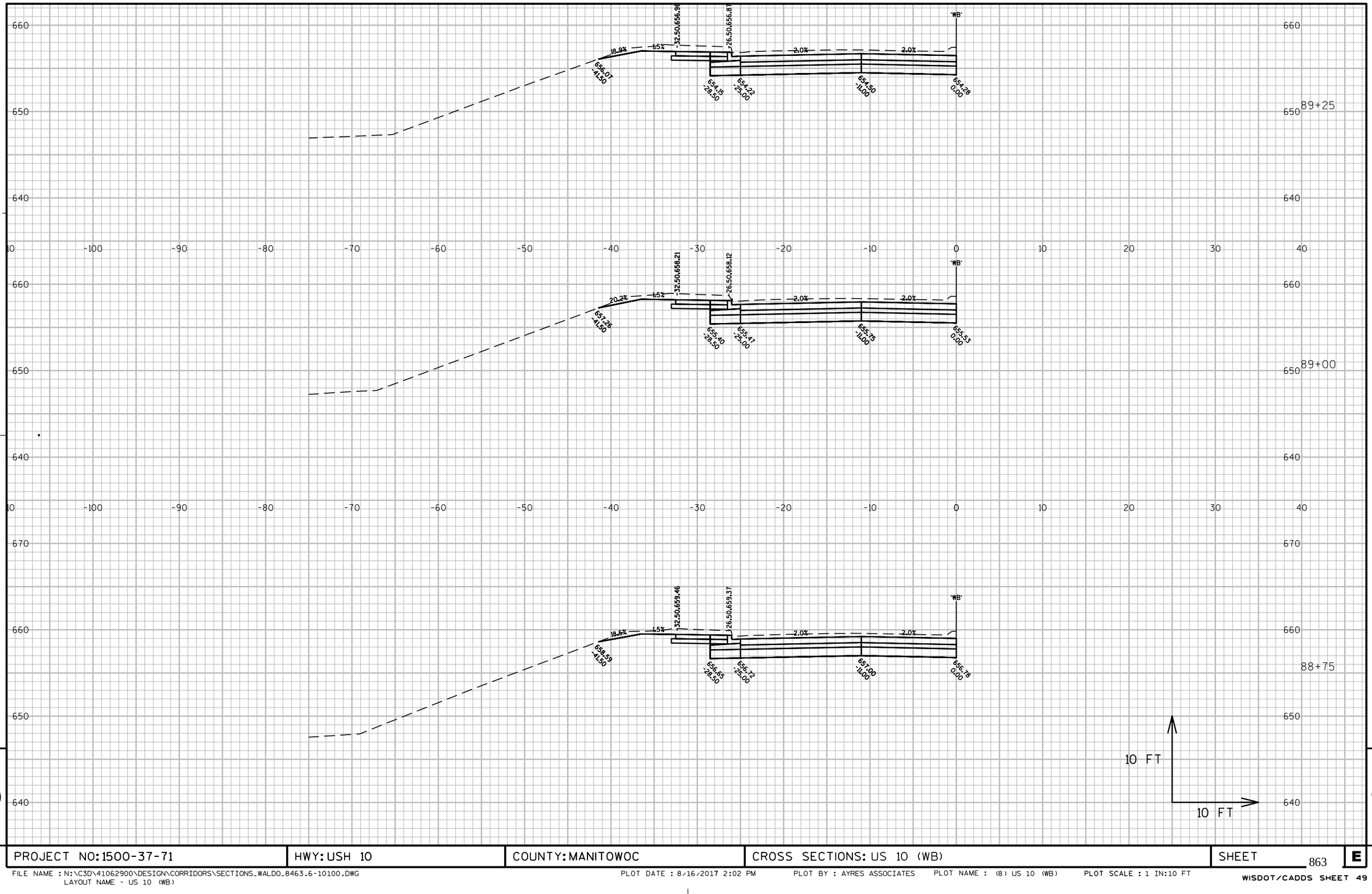


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET 862	E

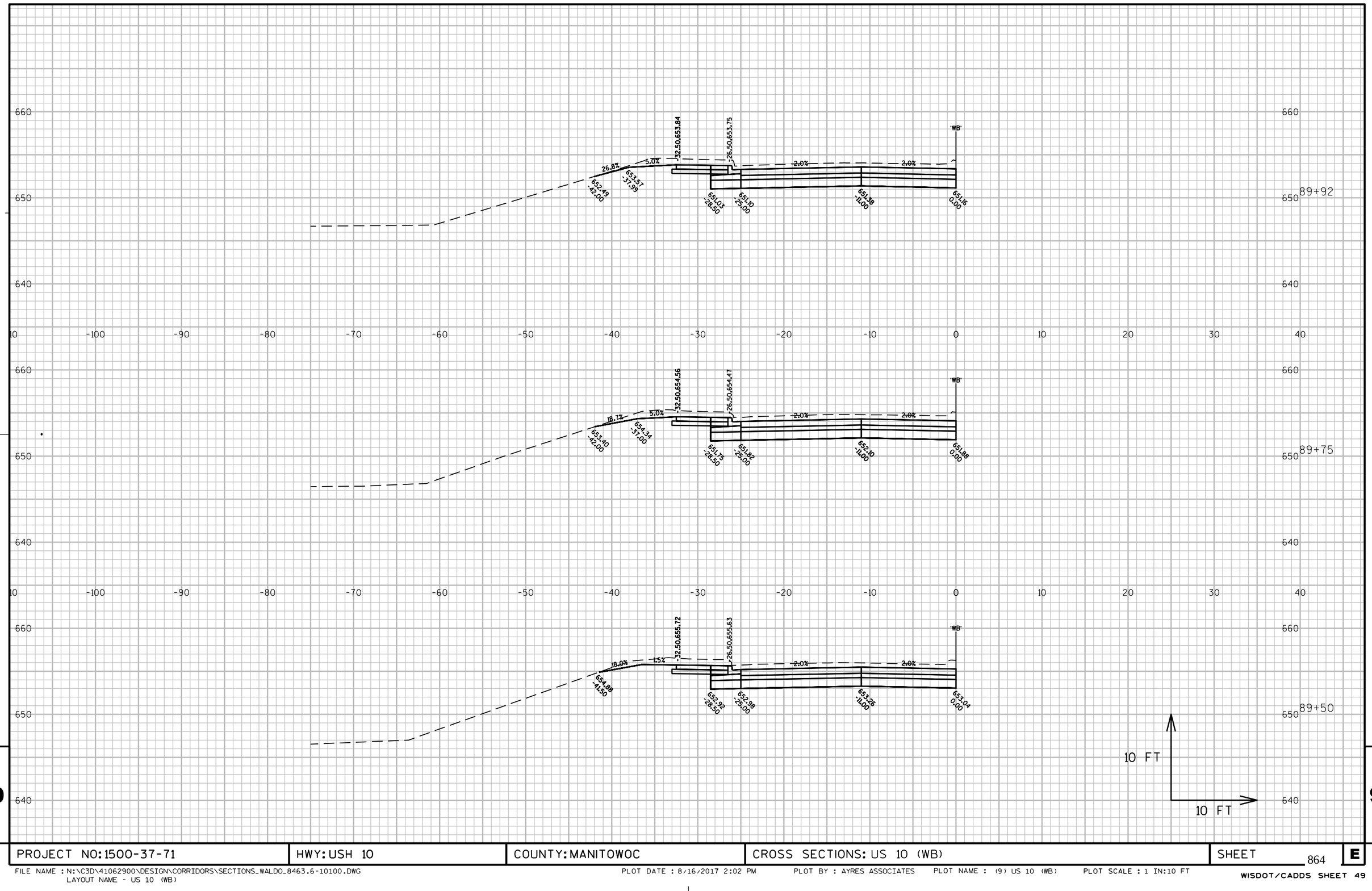
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (WB)

PLOT DATE : 8/16/2017 2:02 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (7) US 10 (WB) PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET 863	E



9

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET 864	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (WB)

PLOT DATE : 8/16/2017 2:02 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (9) US 10 (WB) PLOT SCALE : 1 IN:10 FT

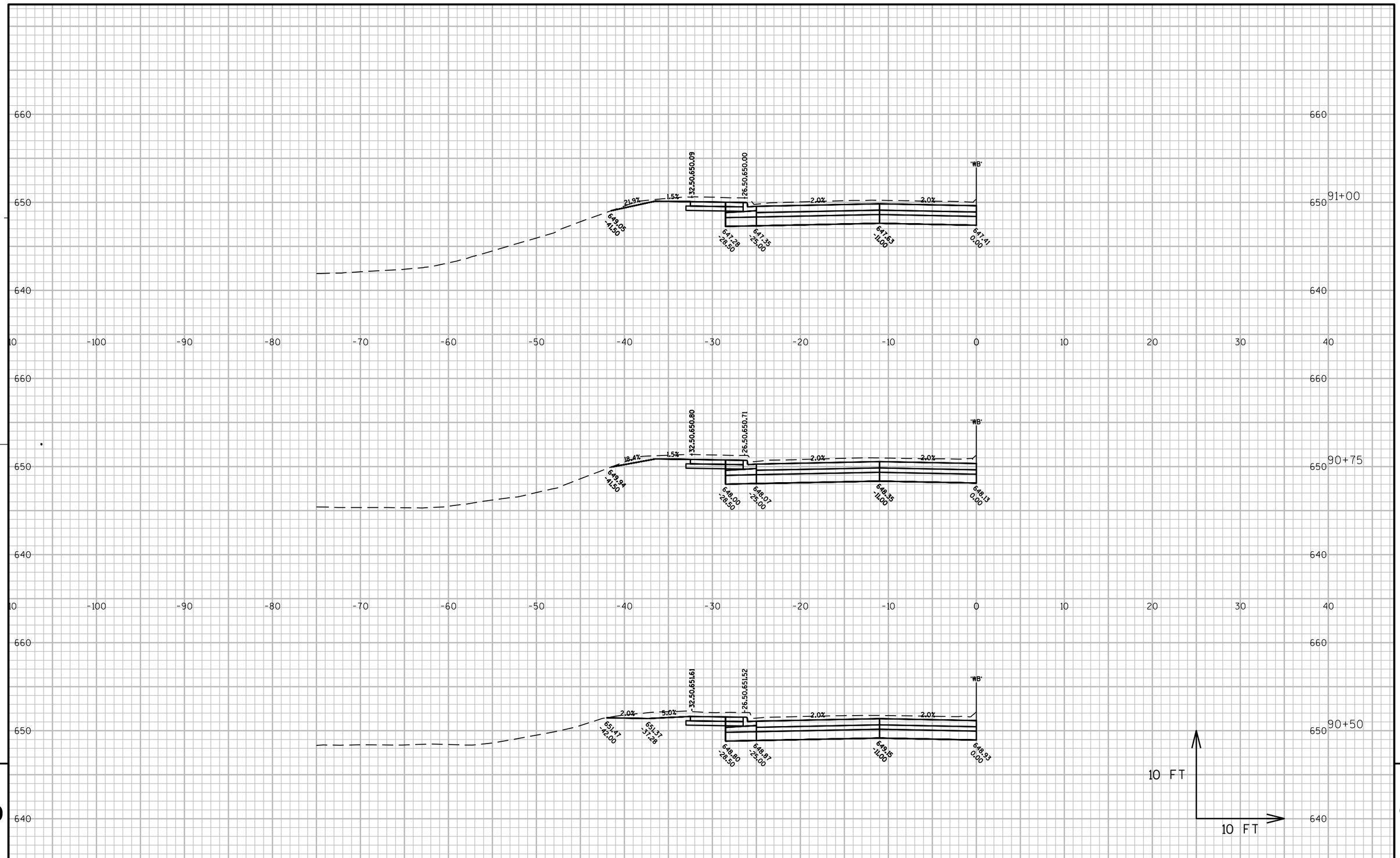
WISDOT/CADDS SHEET 49

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET 865	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (WB)

PLOT DATE : 8/16/2017 2:03 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (10) US 10 (WB) PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

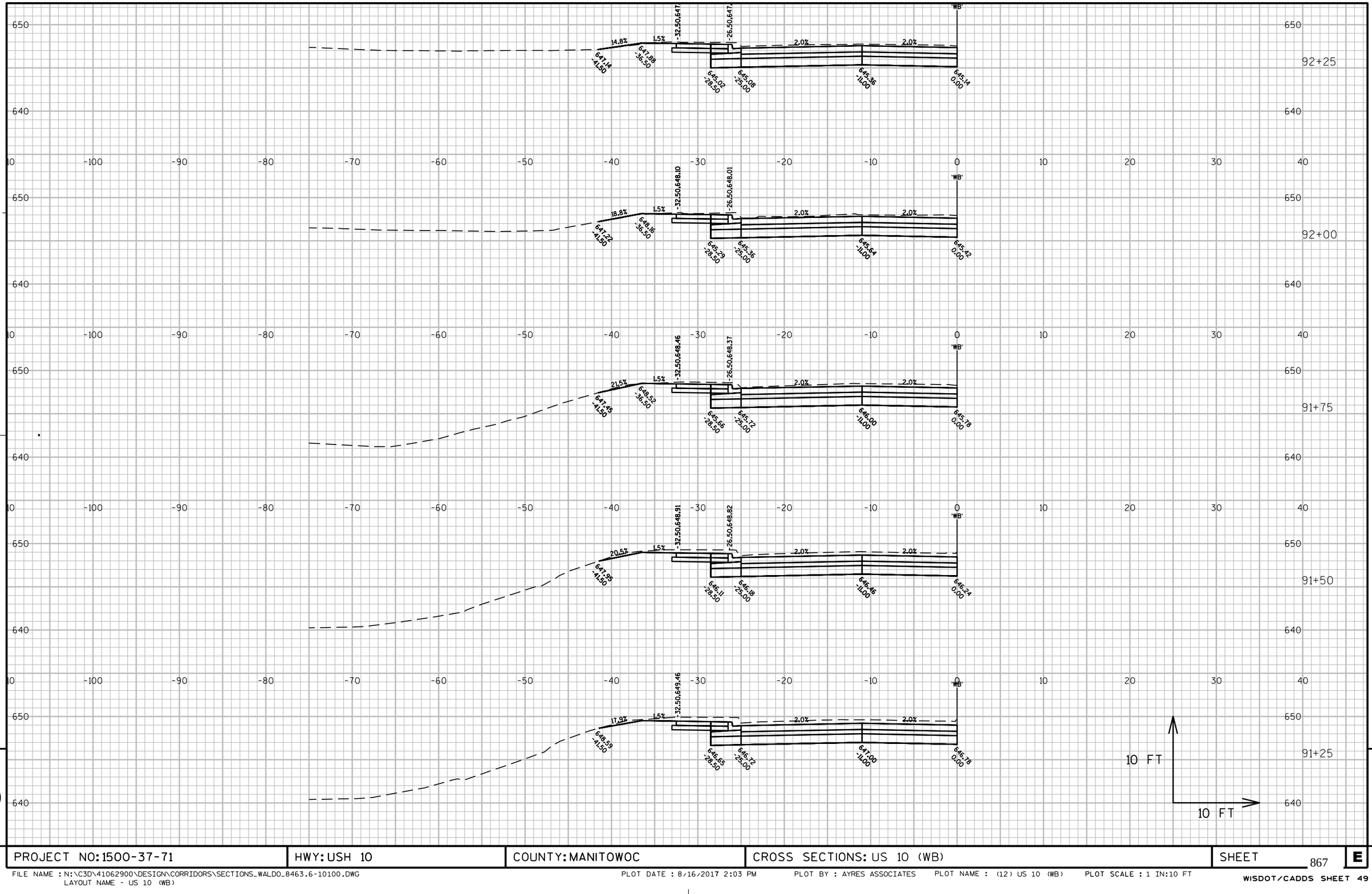


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET 866 E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (WB)

PLOT DATE : 8/16/2017 2:03 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (11) US 10 (WB) PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

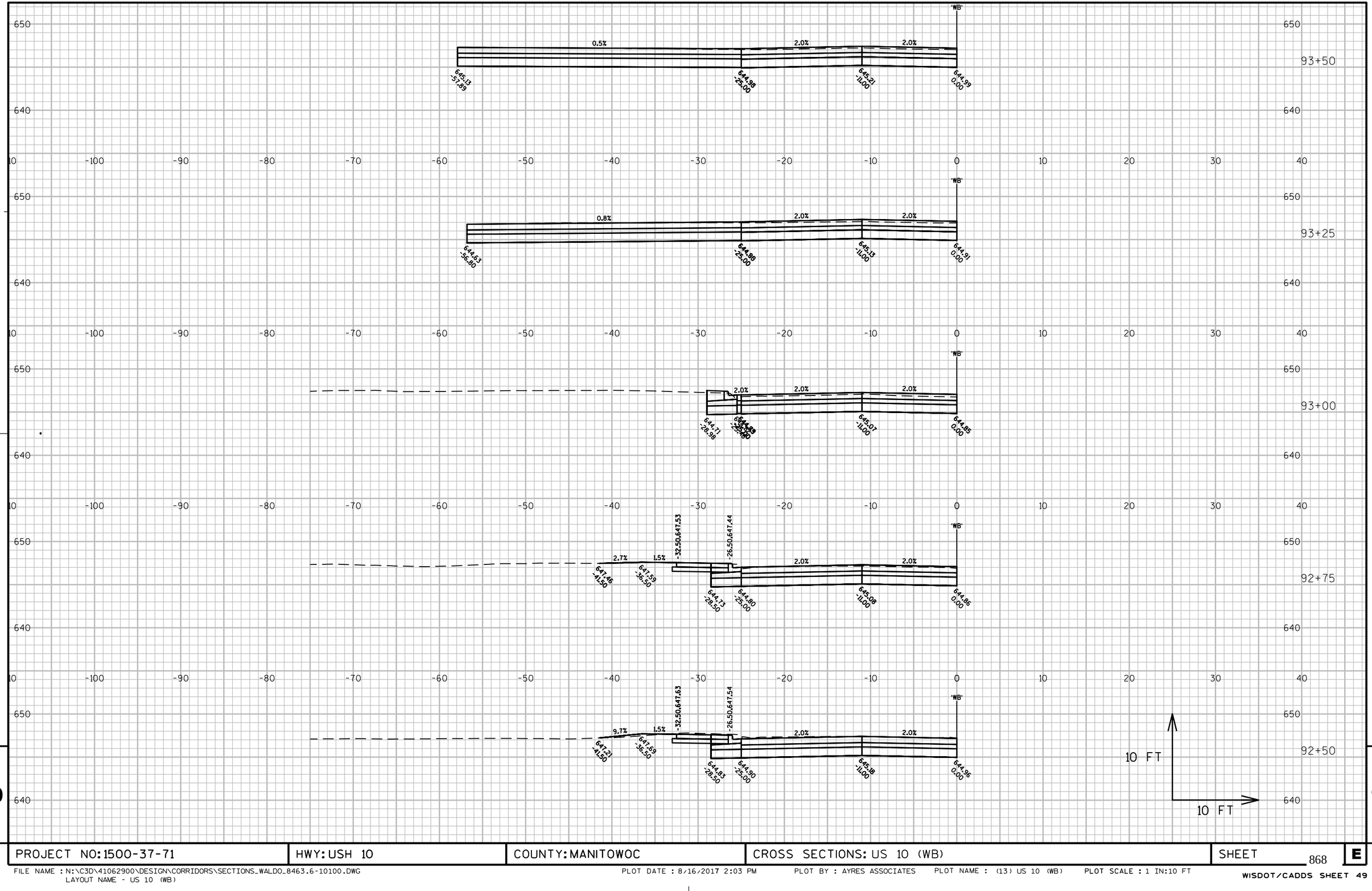
9

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET 867	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (WB)

PLOT DATE : 8/16/2017 2:03 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (12) US 10 (WB) PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

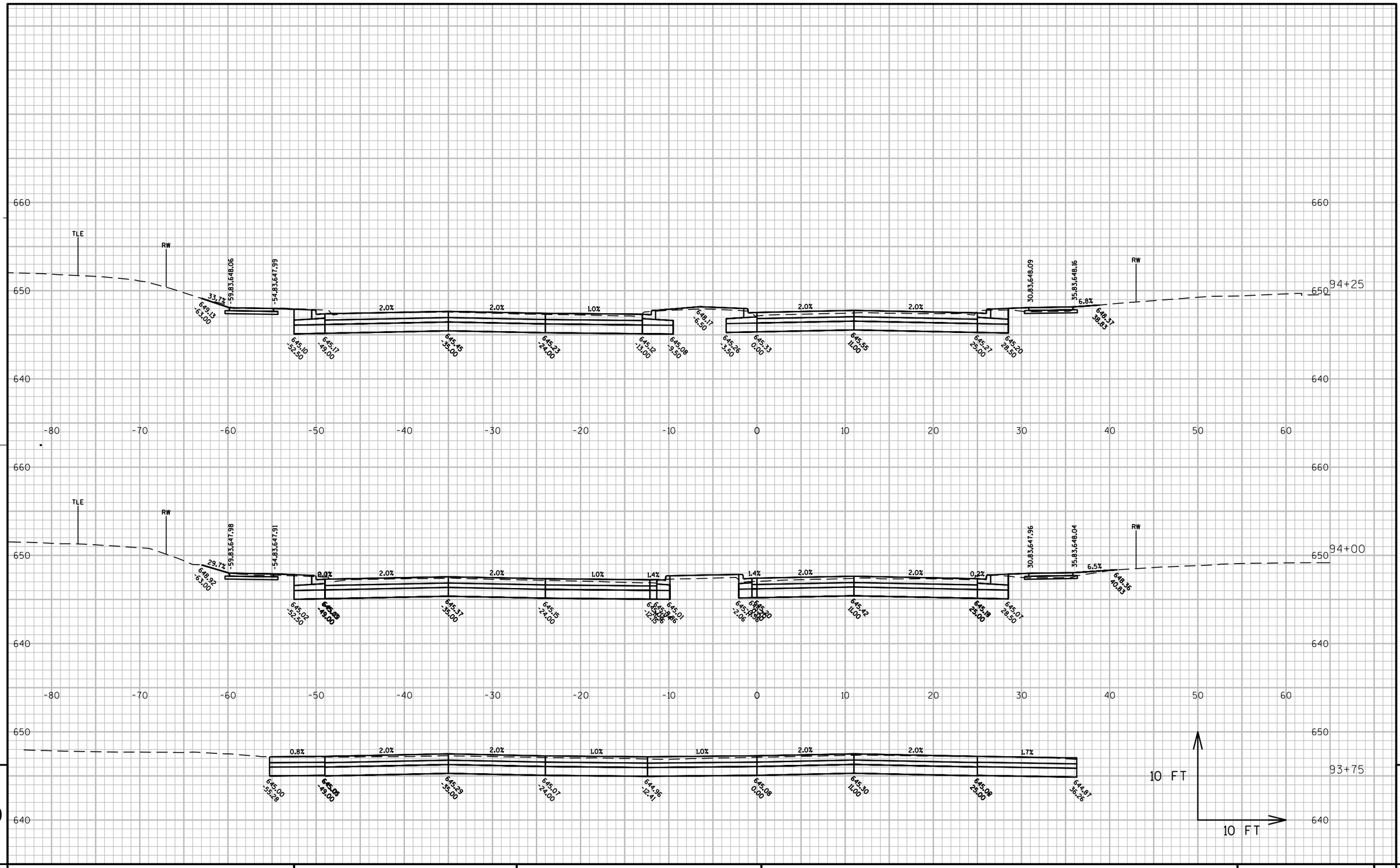


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10 (WB)	SHEET 868	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - US 10 (WB)

PLOT DATE : 8/16/2017 2:03 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (13) US 10 (WB) PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E

869

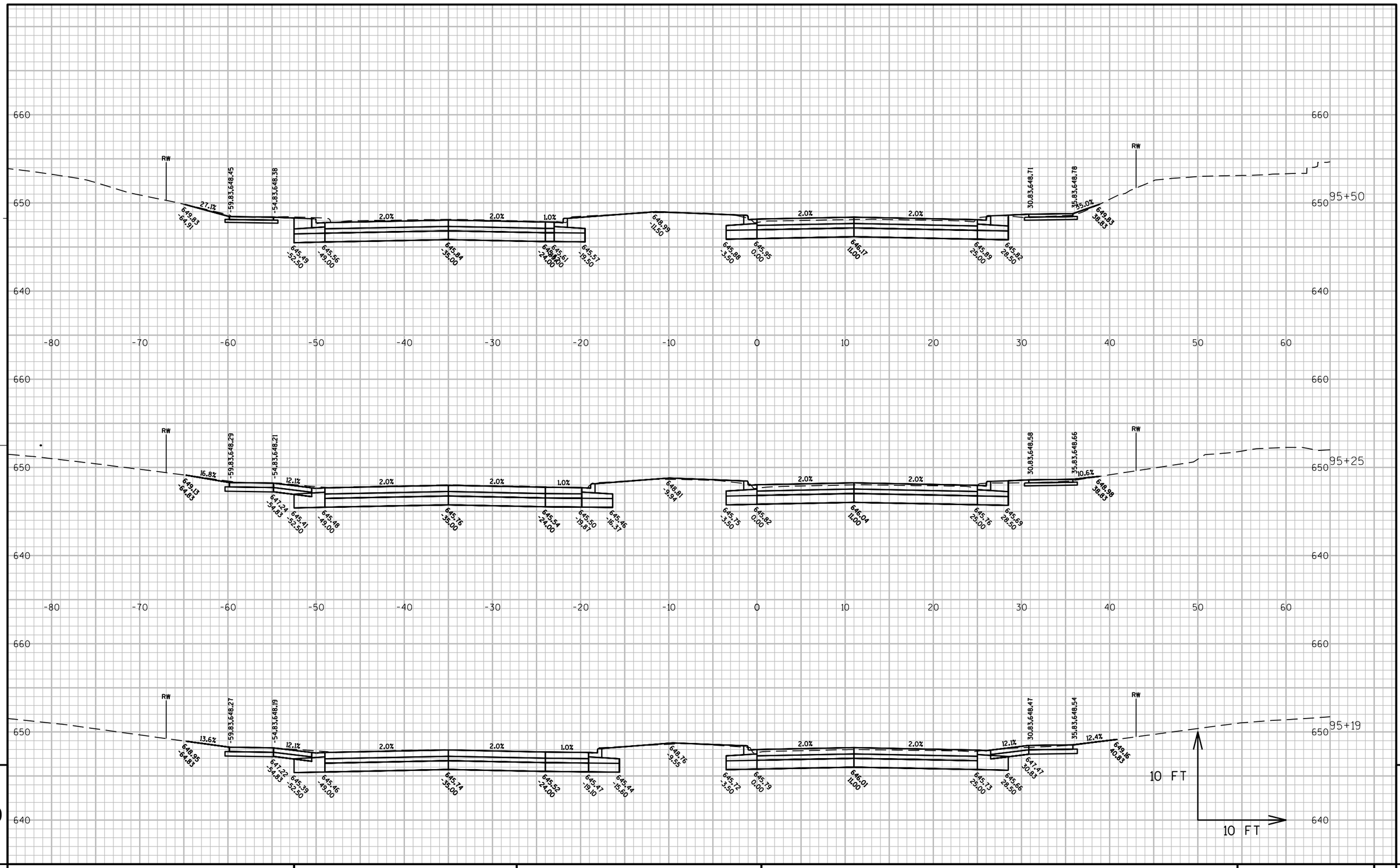
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG PLOT DATE : 8/16/2017 2:03 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (9) US 10 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 870	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG PLOT DATE : 8/16/2017 2:03 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (10) US 10 PLOT SCALE : 1" = 10'_XREF

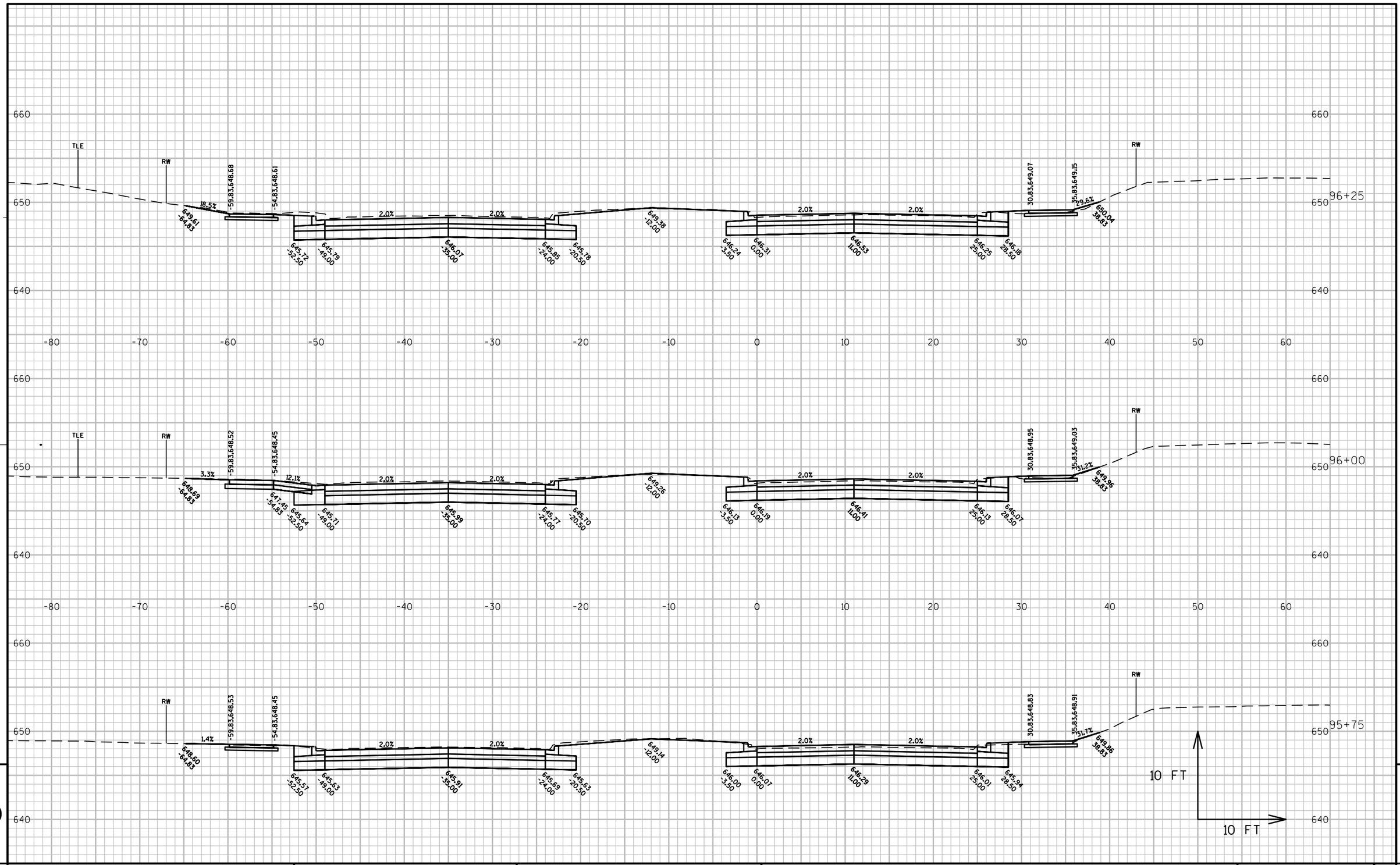
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG PLOT DATE : 8/16/2017 2:04 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (11) US 10 PLOT SCALE : 1" = 10'_XREF

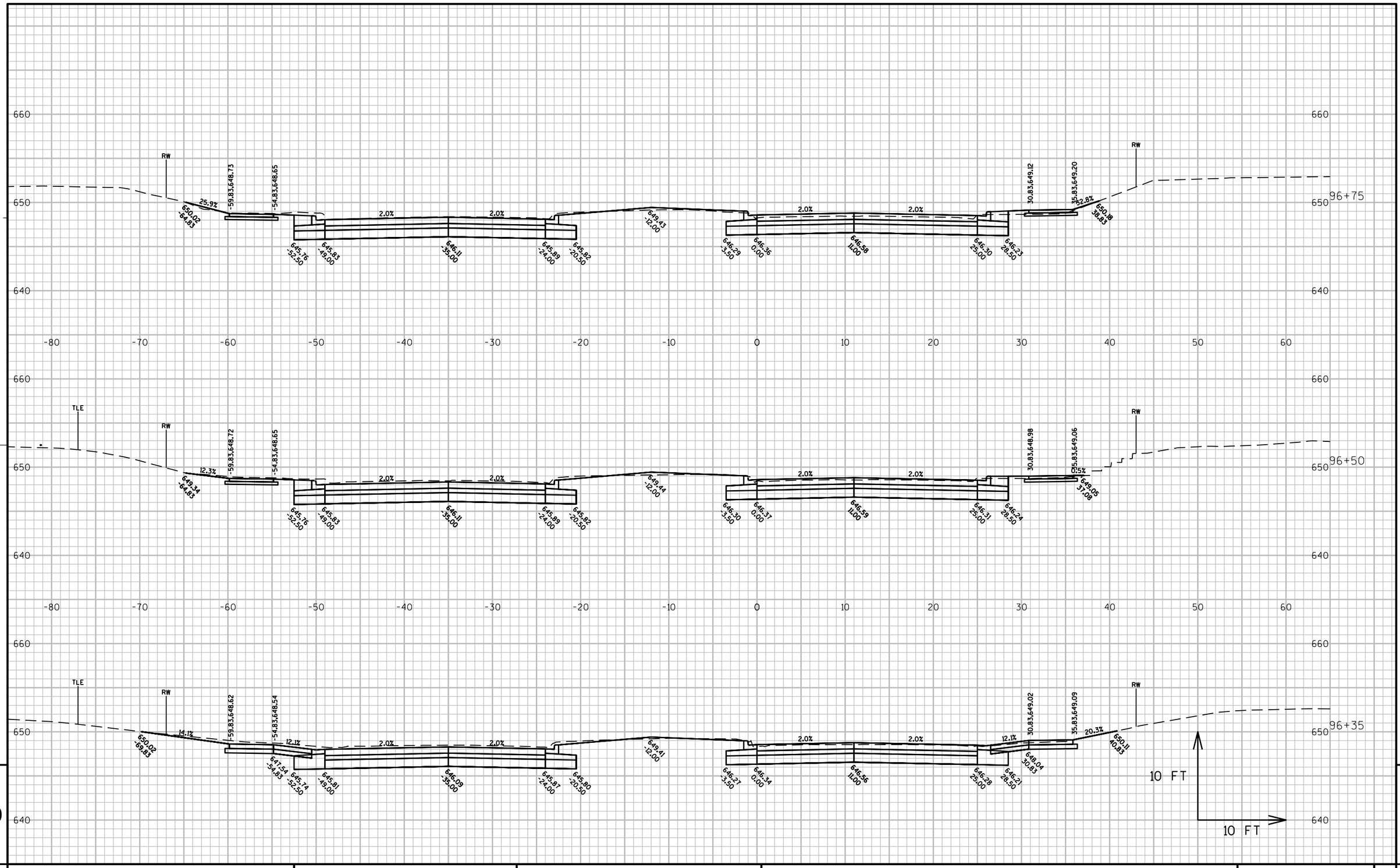
WISDOT/CADDS SHEET 49



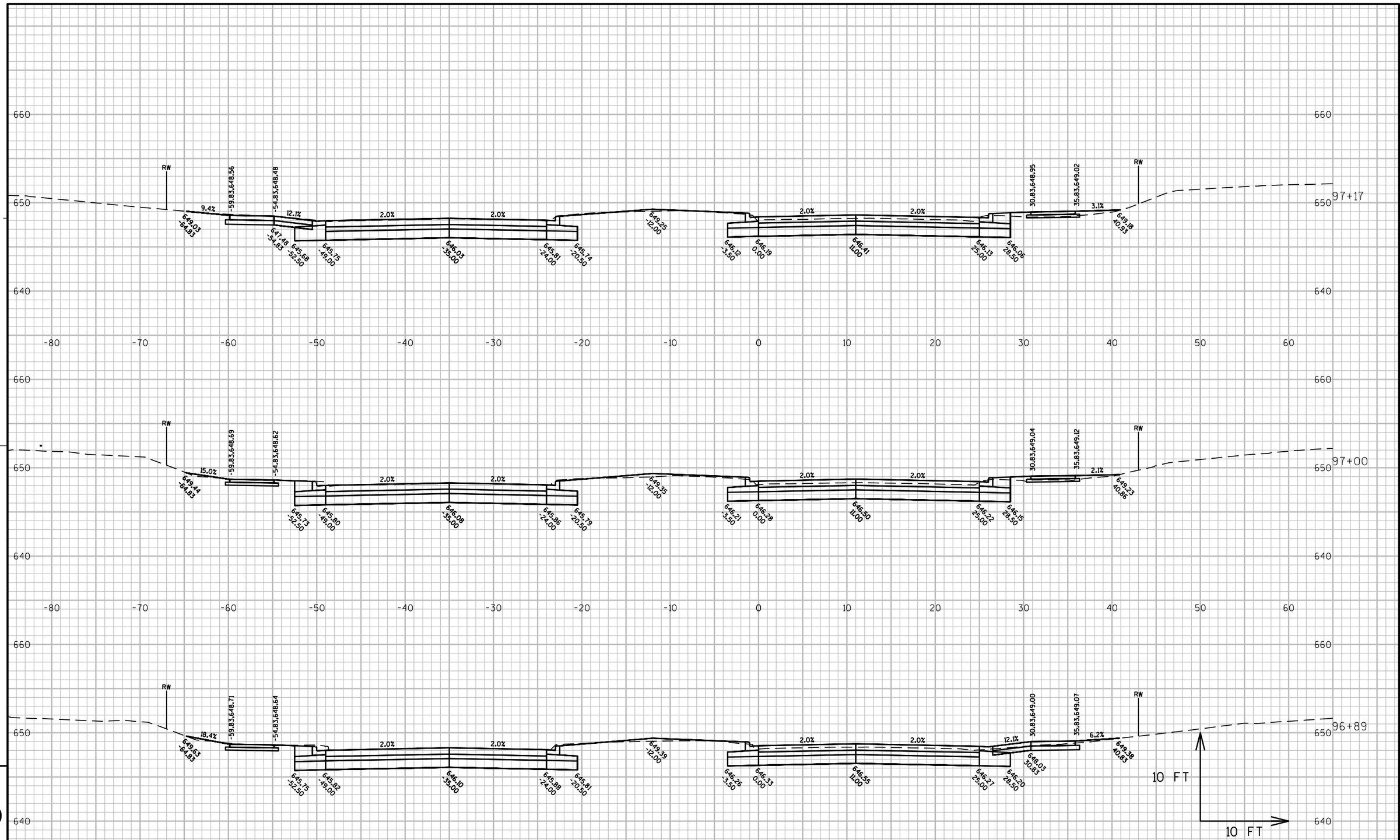
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 872	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG PLOT DATE : 8/16/2017 2:04 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (12) US 10 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



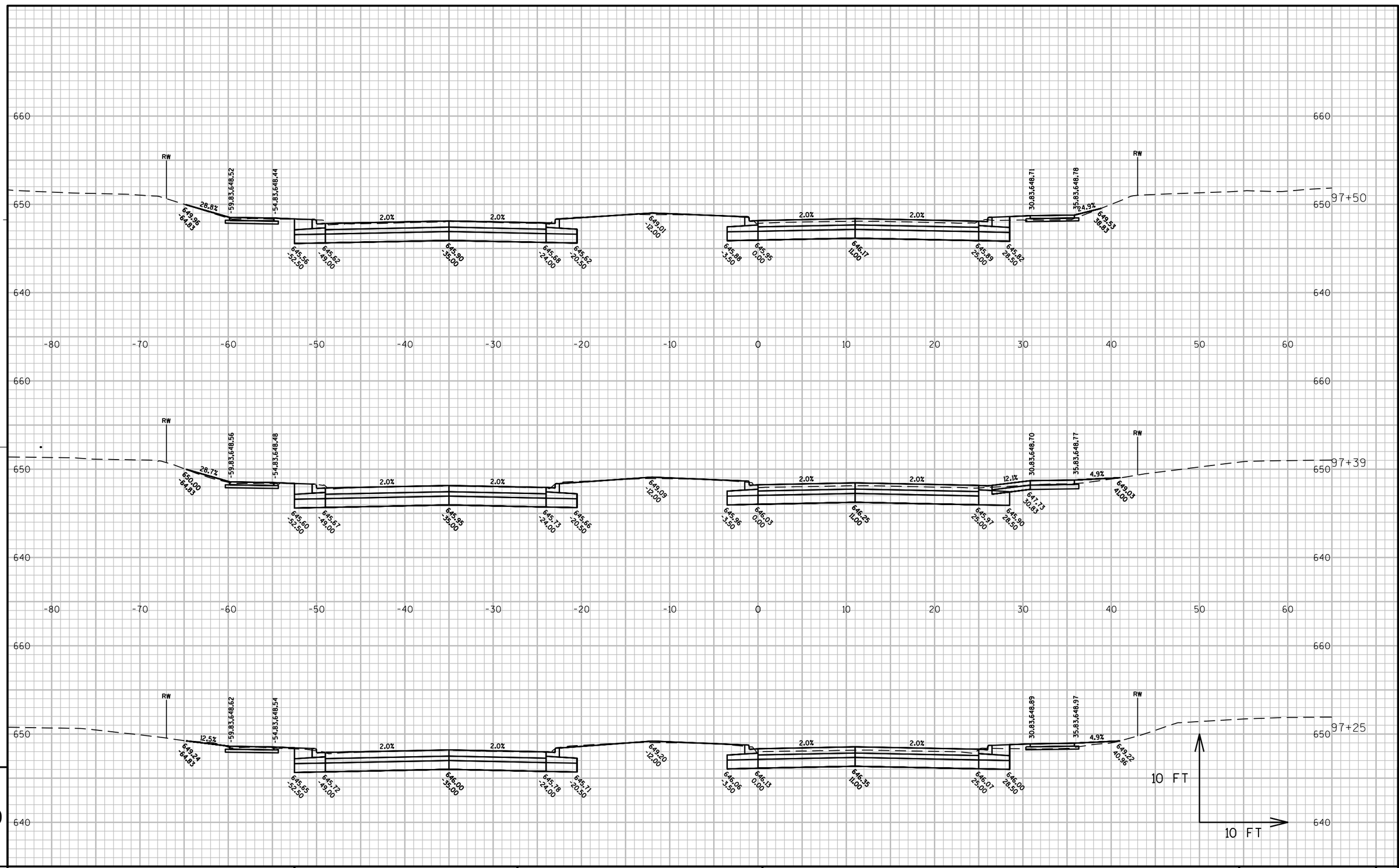
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 874	E

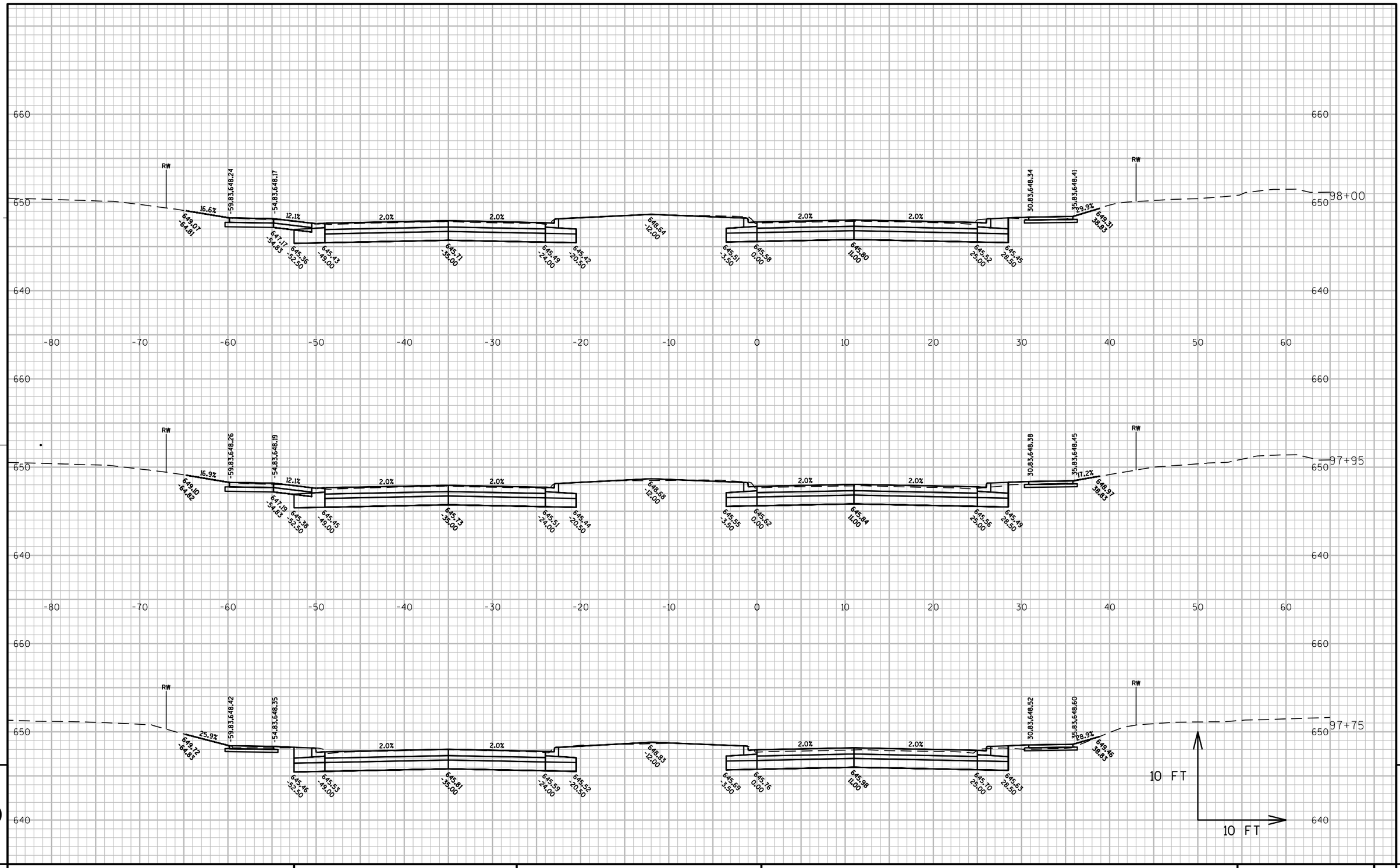
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG PLOT DATE : 8/16/2017 2:04 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (14) US 10 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG PLOT DATE : 8/16/2017 2:04 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (15) US 10 PLOT SCALE : 1" = 10'_XREF



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9

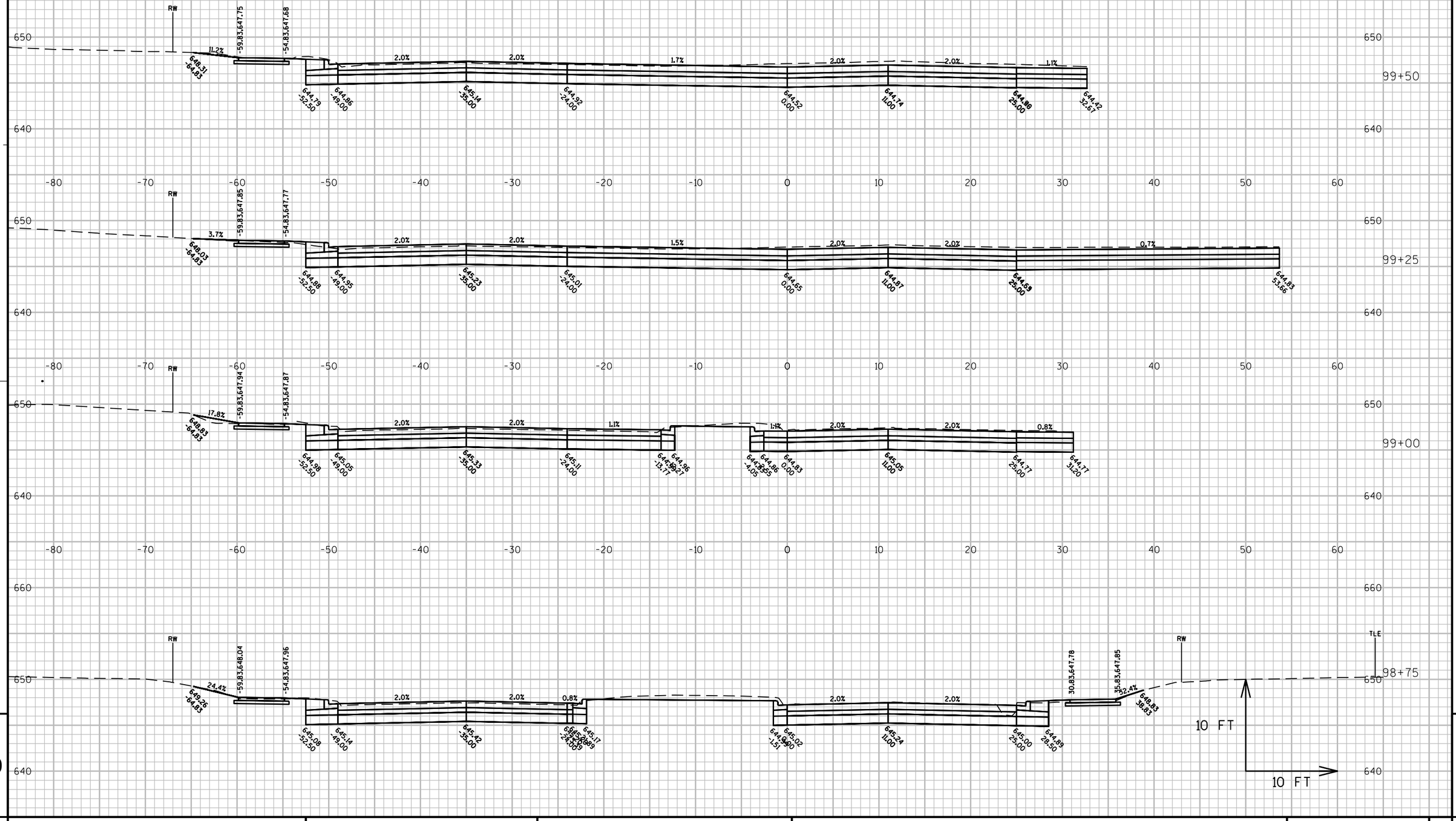
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG PLOT DATE : 8/16/2017 2:05 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (16) US 10 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 877	E

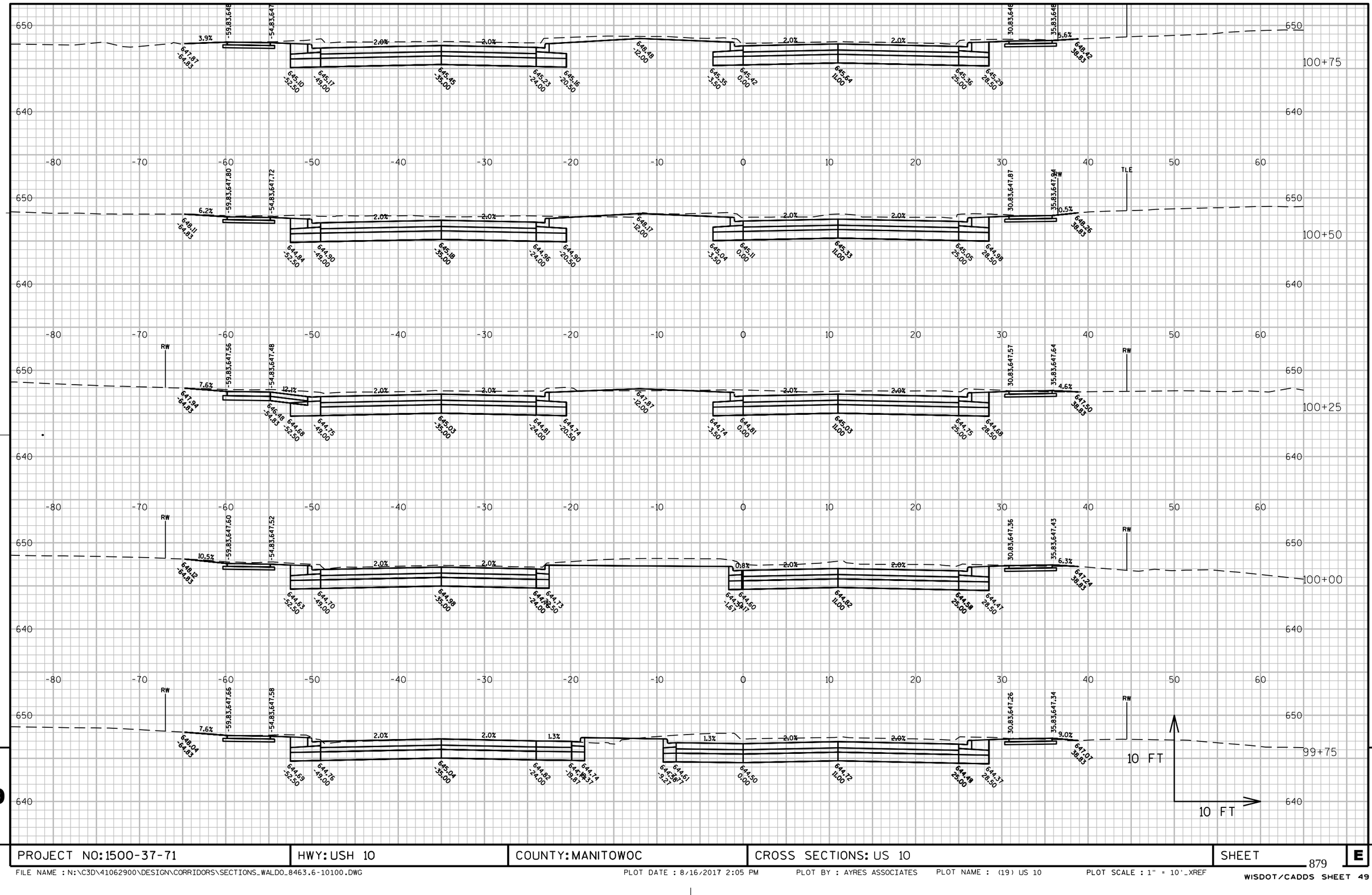
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG PLOT DATE : 8/16/2017 2:05 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (17) US 10 PLOT SCALE : 1" = 10'_XREF



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG PLOT DATE : 8/16/2017 2:05 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (18) US 10 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 879 E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG PLOT DATE : 8/16/2017 2:05 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (19) US 10 PLOT SCALE : 1" = 10'_XREF
WISDOT/CADDS SHEET 49

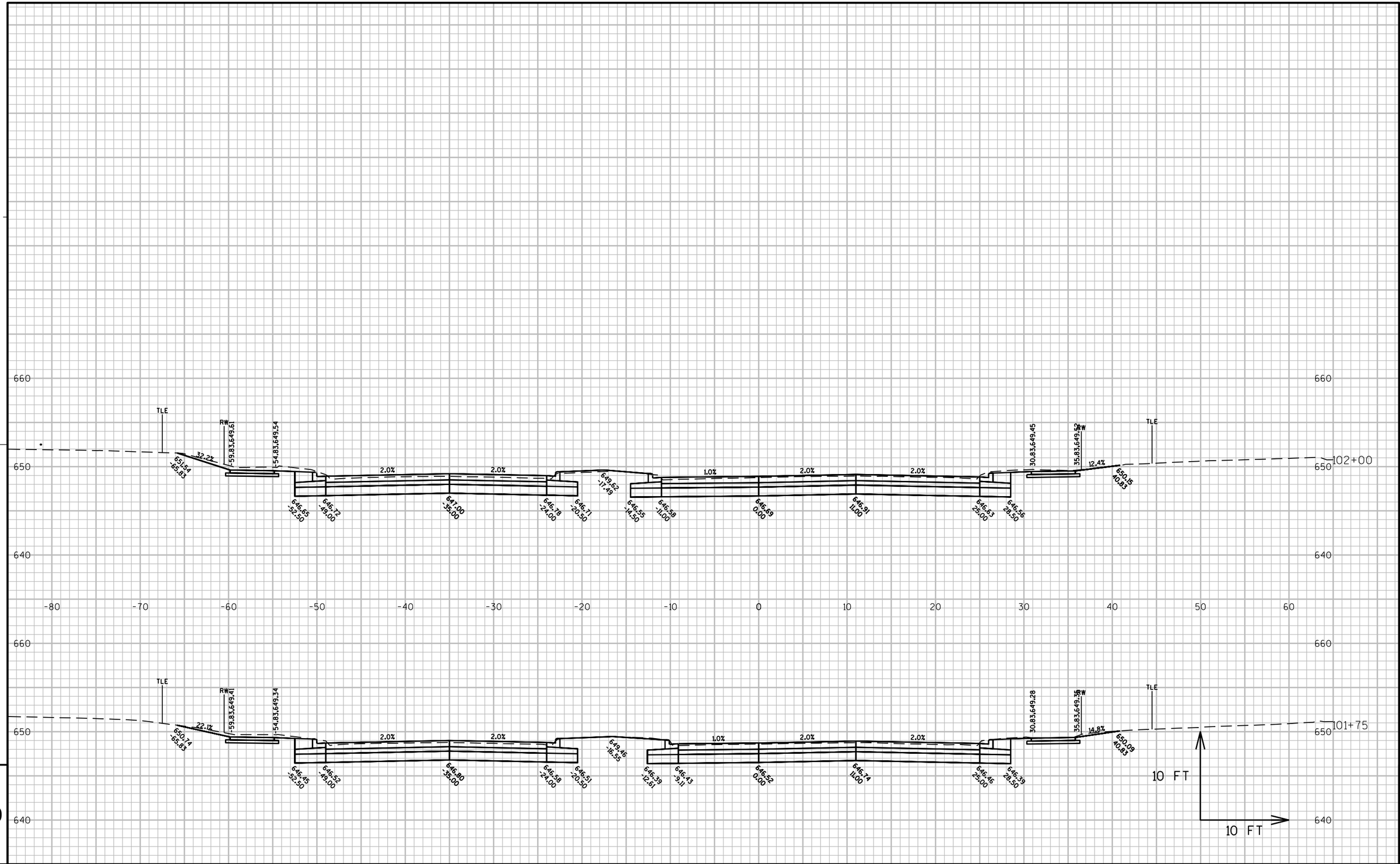
9

9

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 880	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG PLOT DATE : 8/16/2017 2:06 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (19) US 10 (2) PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



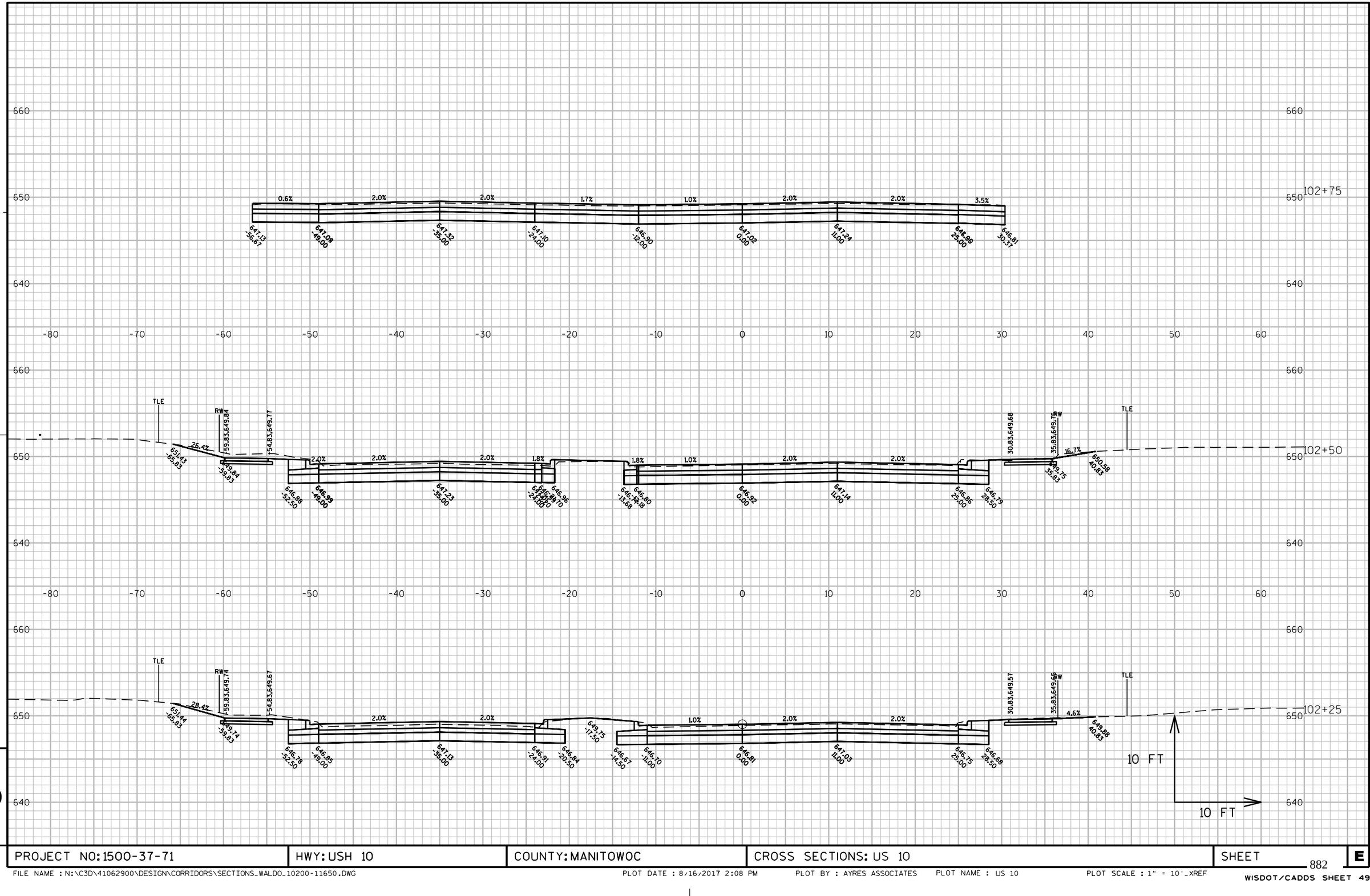
9

9

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 881	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG PLOT DATE : 8/16/2017 2:06 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (19) US 10 (2) (2) PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



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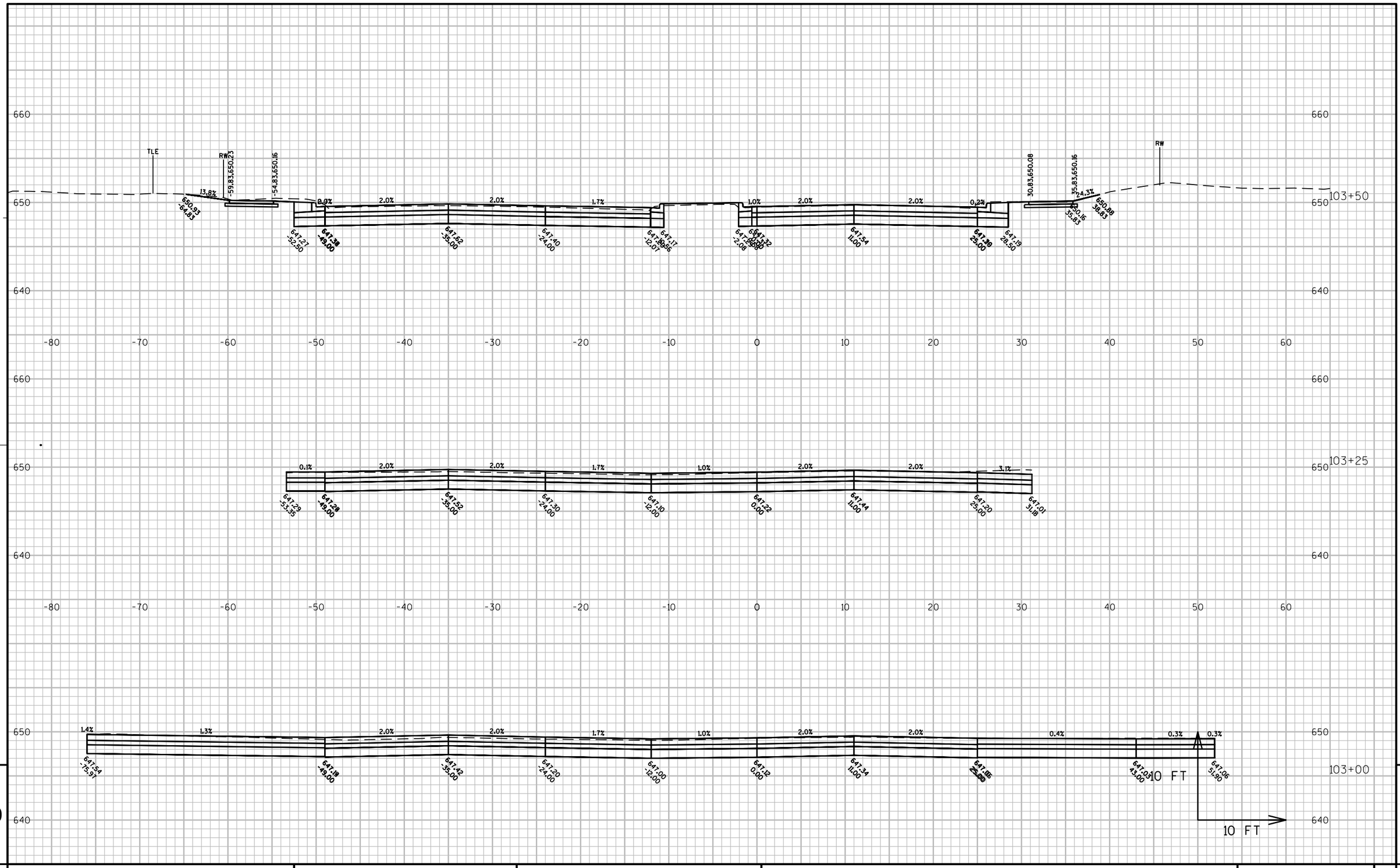
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 882	E

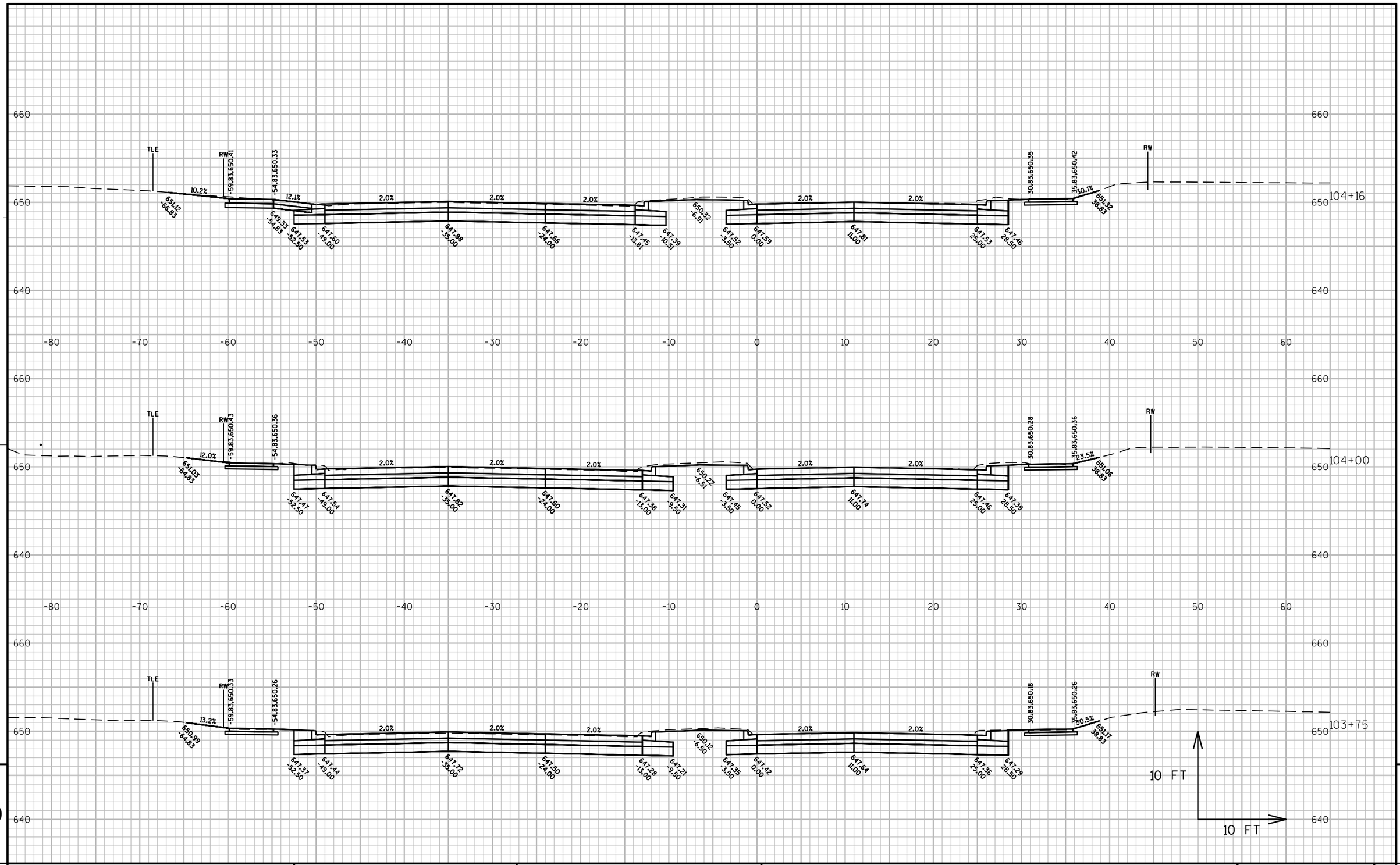
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_10200-11650.DWG PLOT DATE : 8/16/2017 2:08 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : US 10 PLOT SCALE : 1" = 10'_XREF



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_10200-11650.DWG PLOT DATE : 8/16/2017 2:09 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (2) US 10 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



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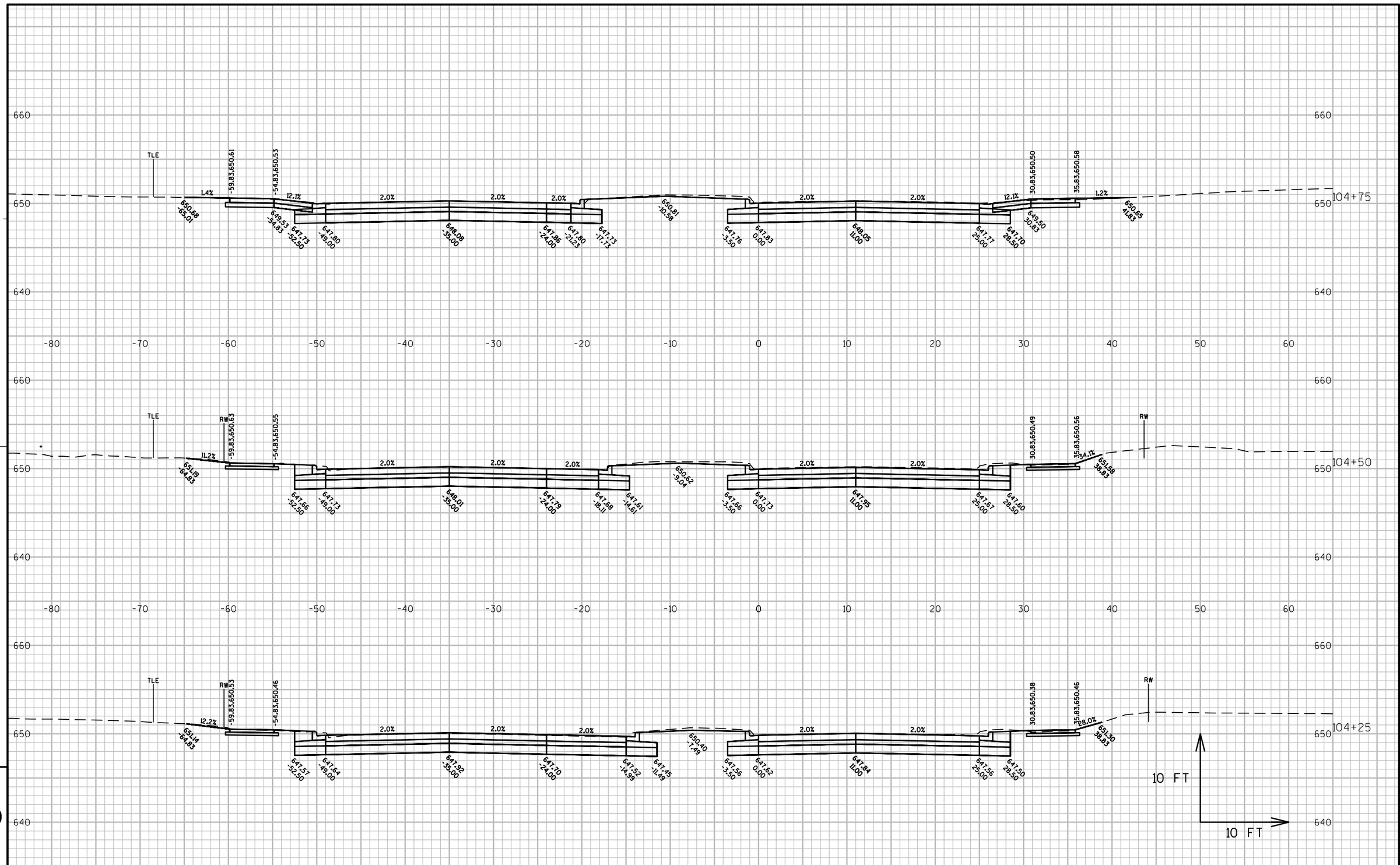
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 884	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_10200-11650.DWG
PLOT DATE : 8/16/2017 2:09 PM
PLOT BY : AYRES ASSOCIATES
PLOT NAME : (3) US 10
PLOT SCALE : 1" = 10'_XREF
WISDOT/CADDS SHEET 49



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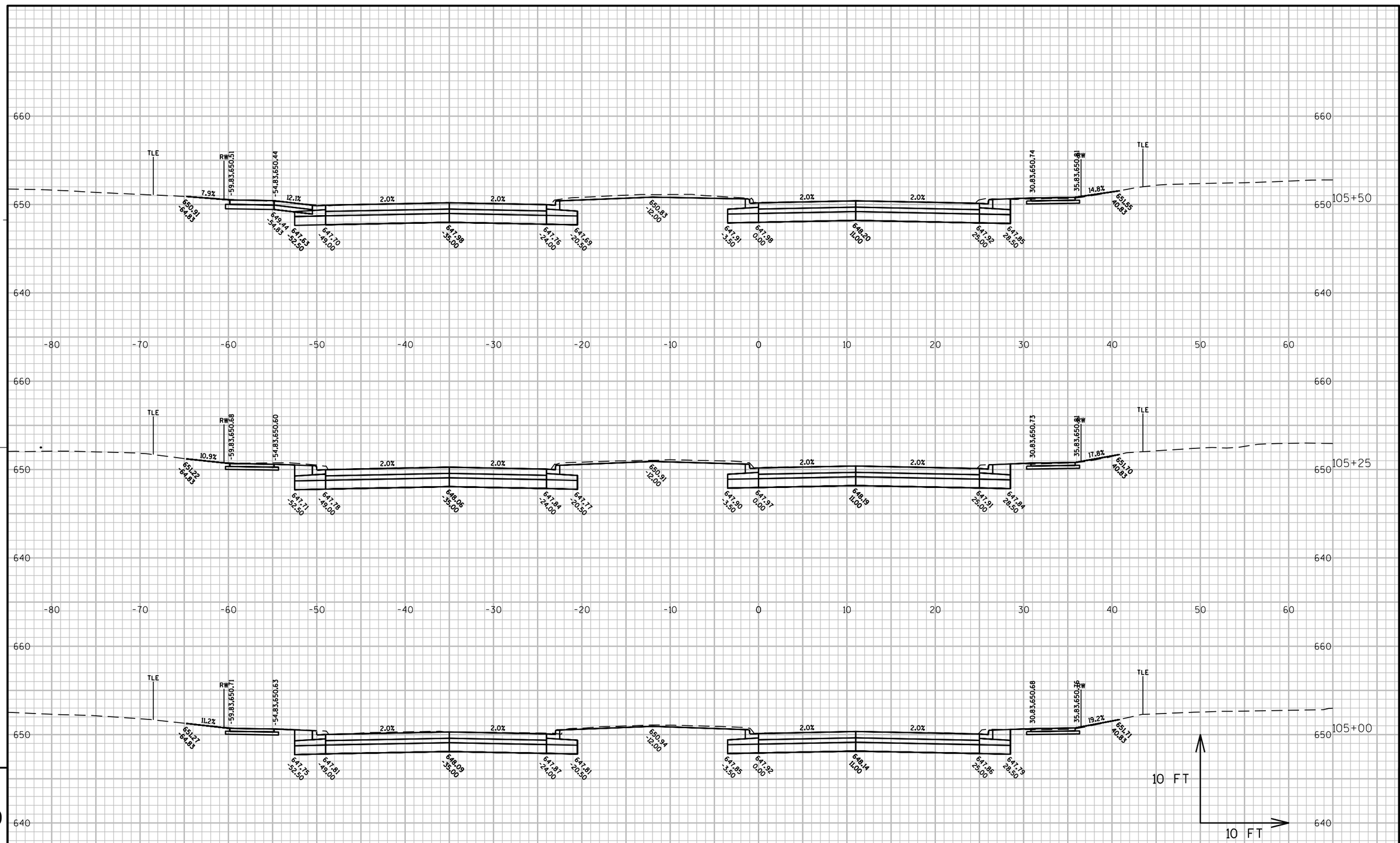
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_10200-11650.DWG PLOT DATE : 8/16/2017 2:10 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (4) US 10 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



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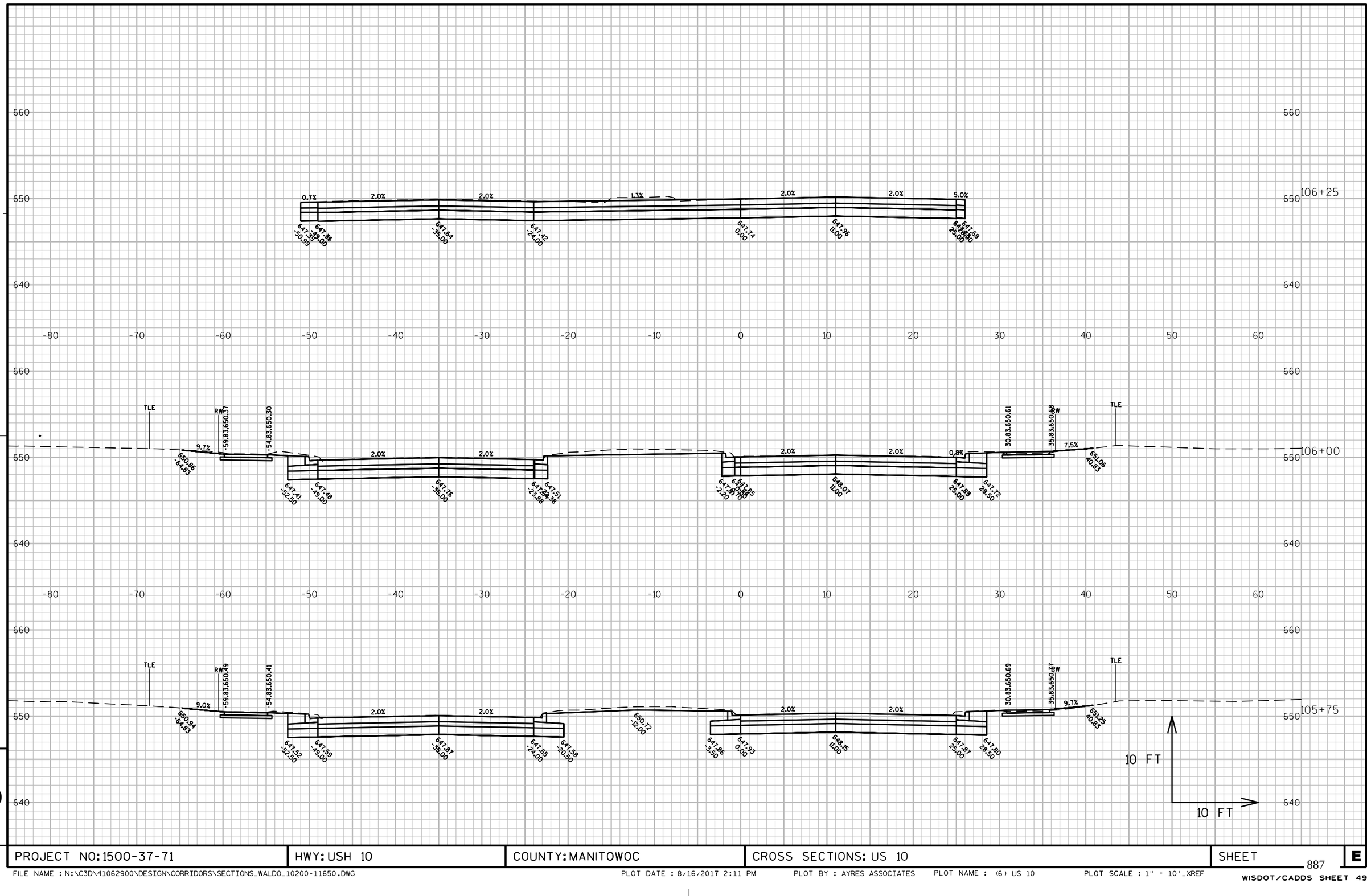
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_10200-11650.DWG PLOT DATE : 8/16/2017 2:10 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (5) US 10 PLOT SCALE : 1" = 10'_XREF

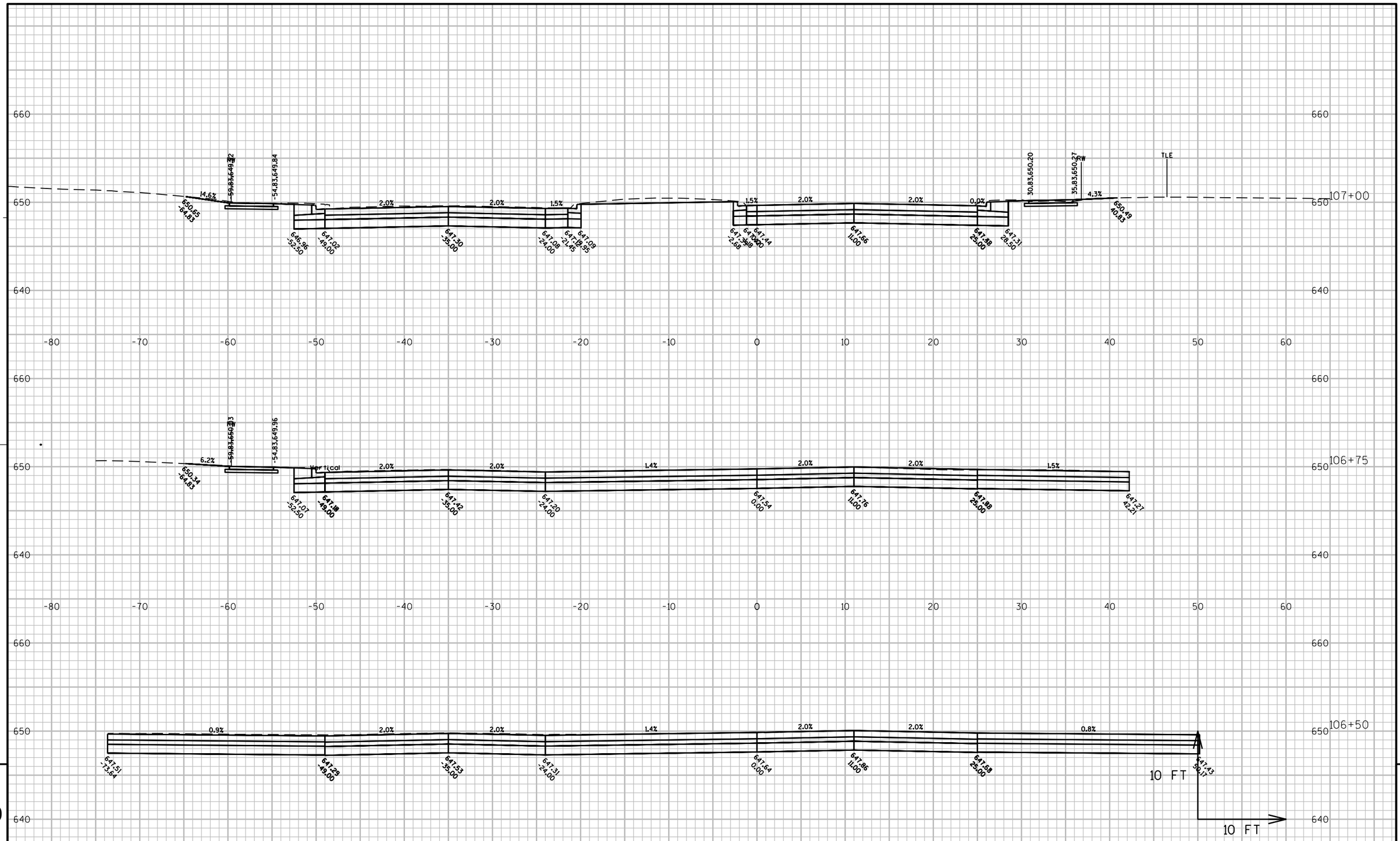
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 887	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_10200-11650.DWG PLOT DATE : 8/16/2017 2:11 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (6) US 10 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



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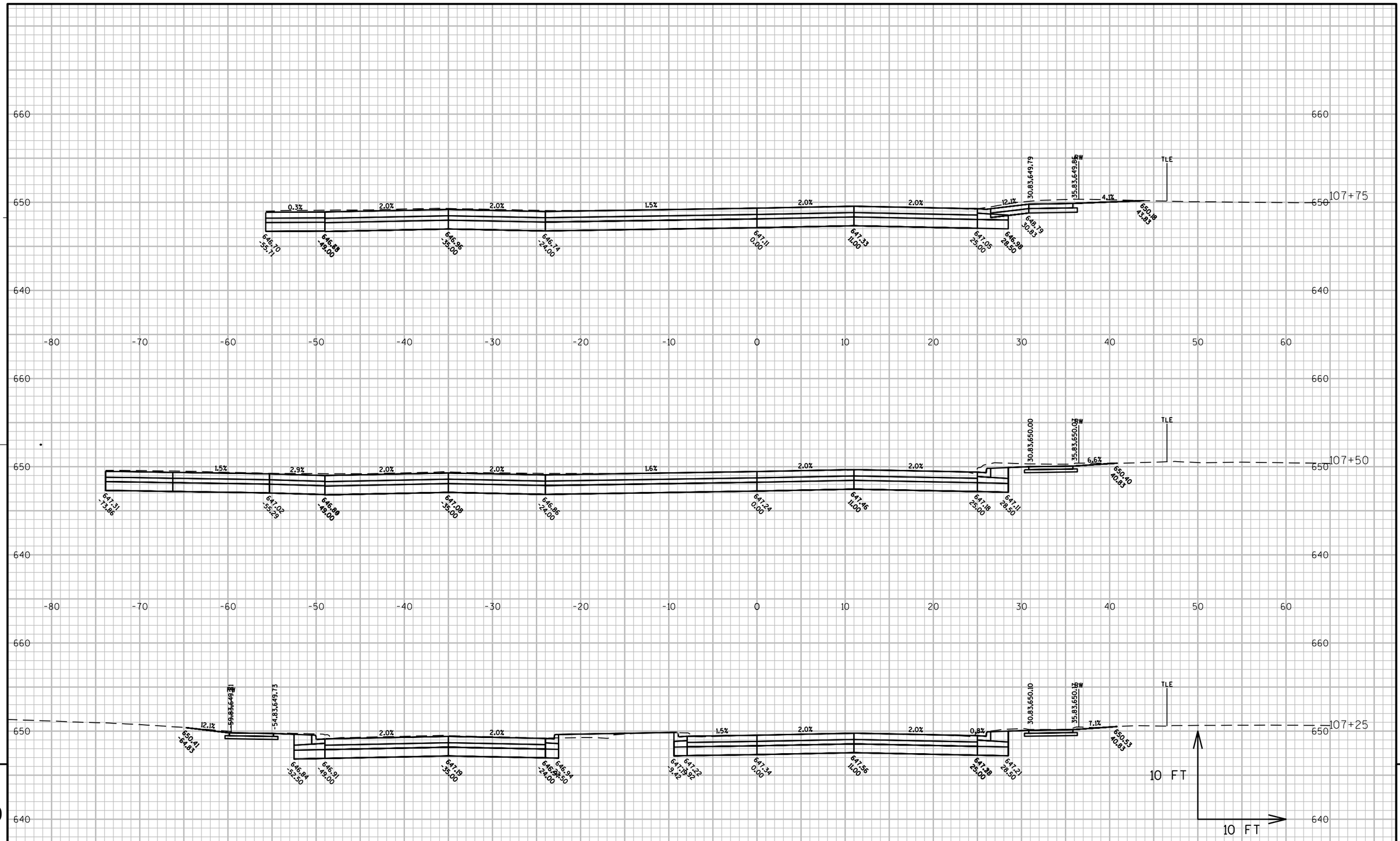
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 888	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_10200-11650.DWG PLOT DATE : 8/16/2017 2:11 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (7) US 10 PLOT SCALE : 1" = 10'_XREF

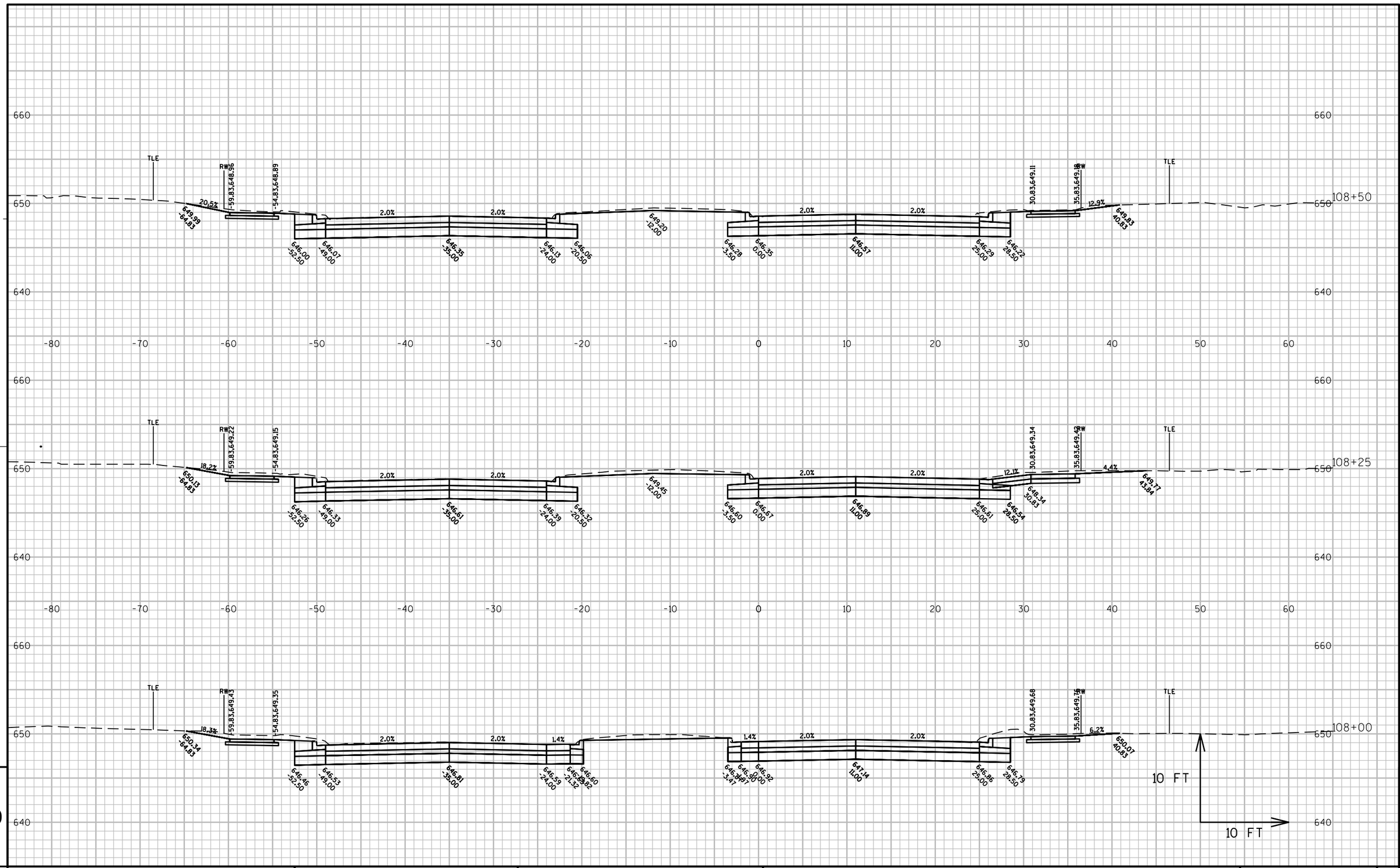
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 889	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_10200-11650.DWG PLOT DATE : 8/16/2017 2:12 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (8) US 10 PLOT SCALE : 1" = 10'_XREF

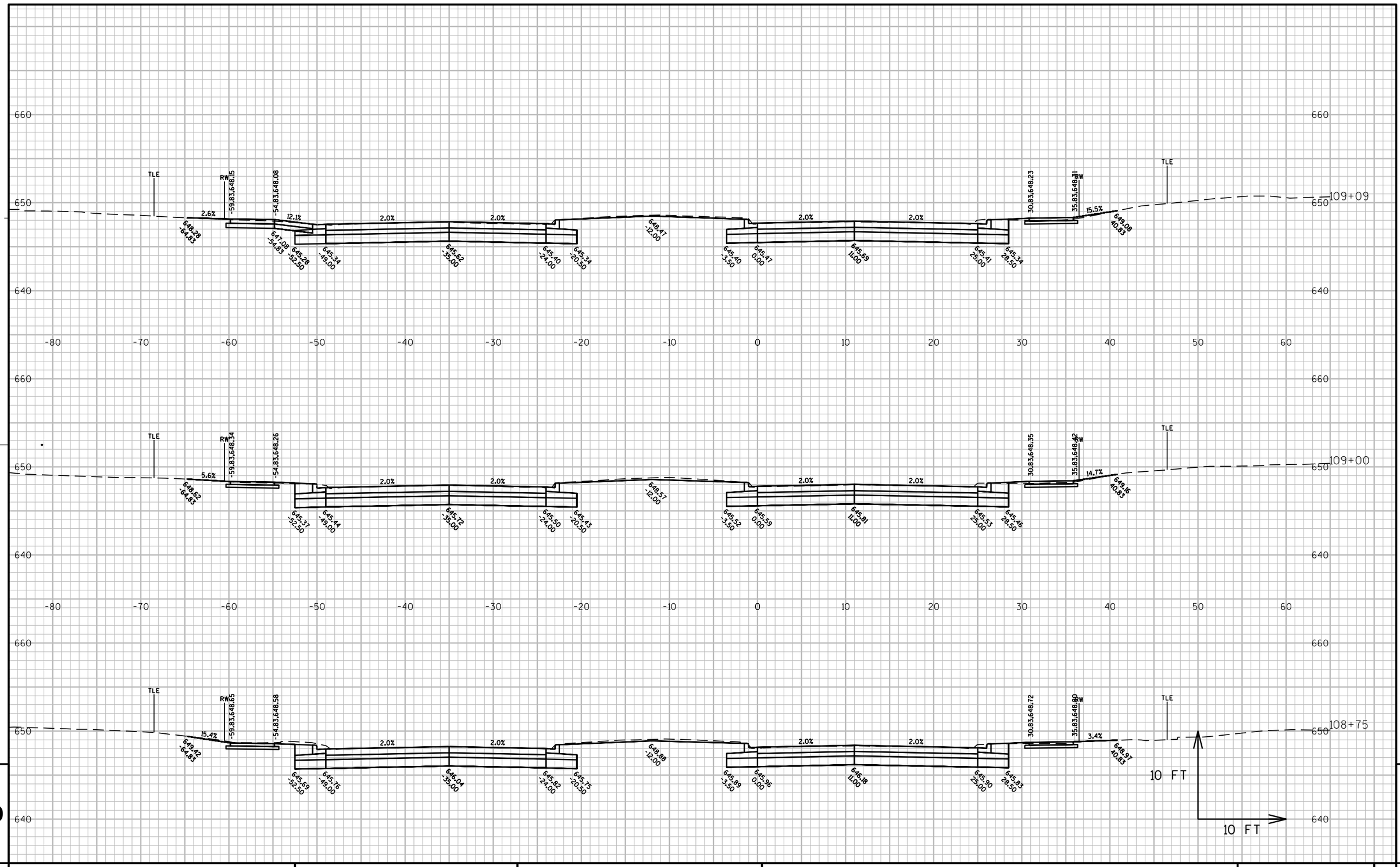
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 890	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_10200-11650.DWG PLOT DATE : 8/16/2017 2:12 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (9) US 10 PLOT SCALE : 1" = 10'_XREF

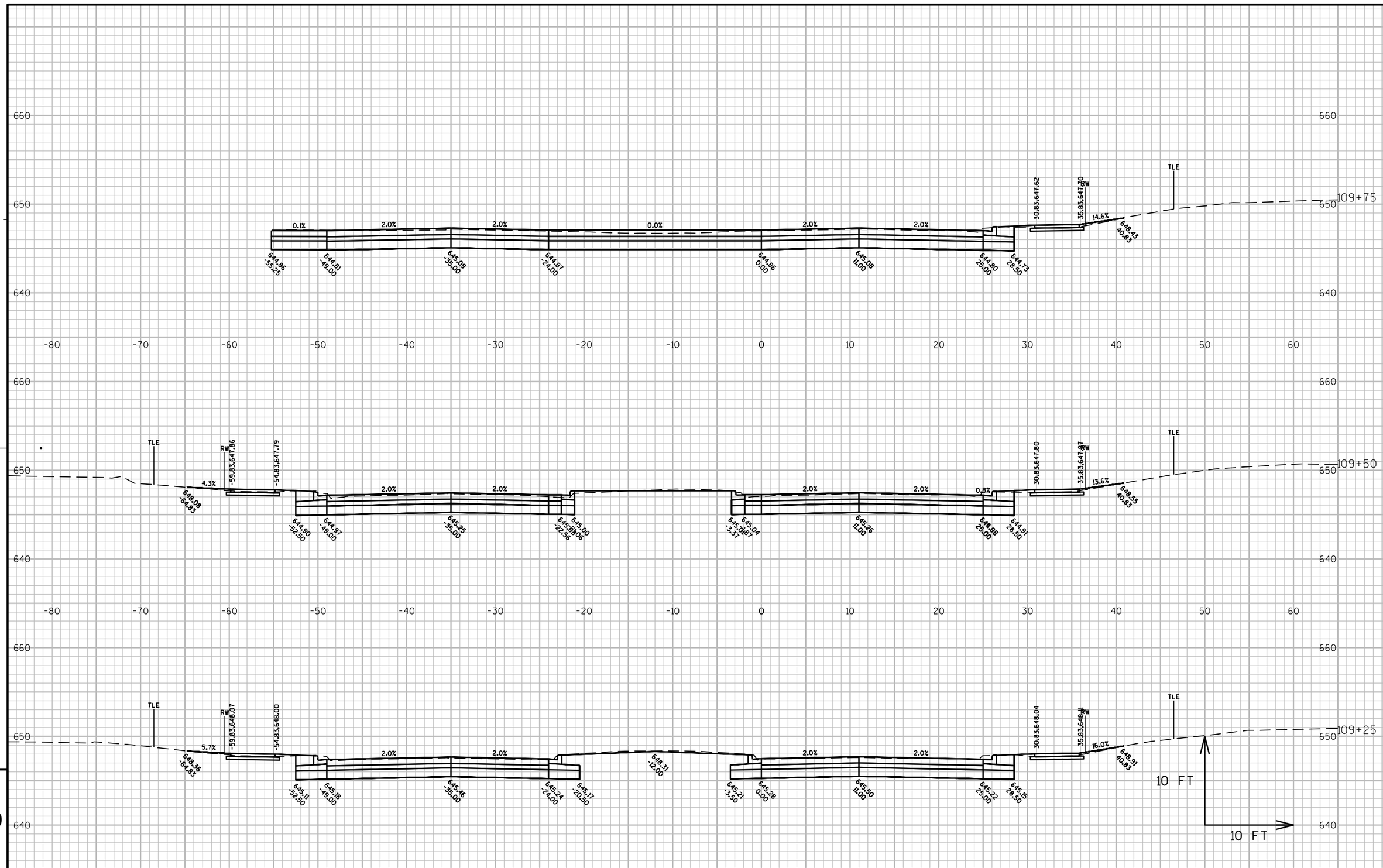
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 891	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_10200-11650.DWG PLOT DATE : 8/16/2017 2:13 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (10) US 10 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



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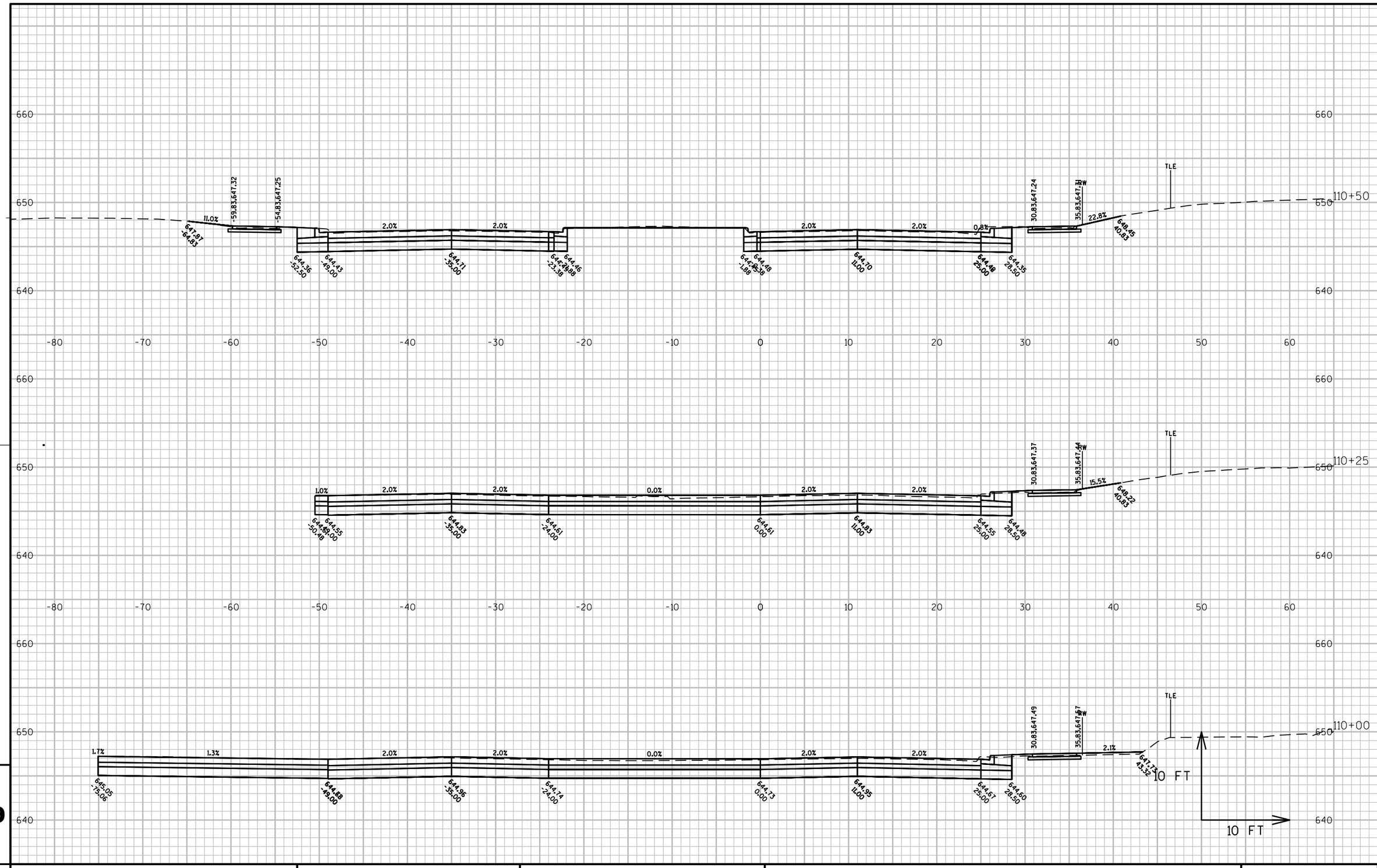
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_10200-11650.DWG PLOT DATE : 8/16/2017 2:13 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (11) US 10 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



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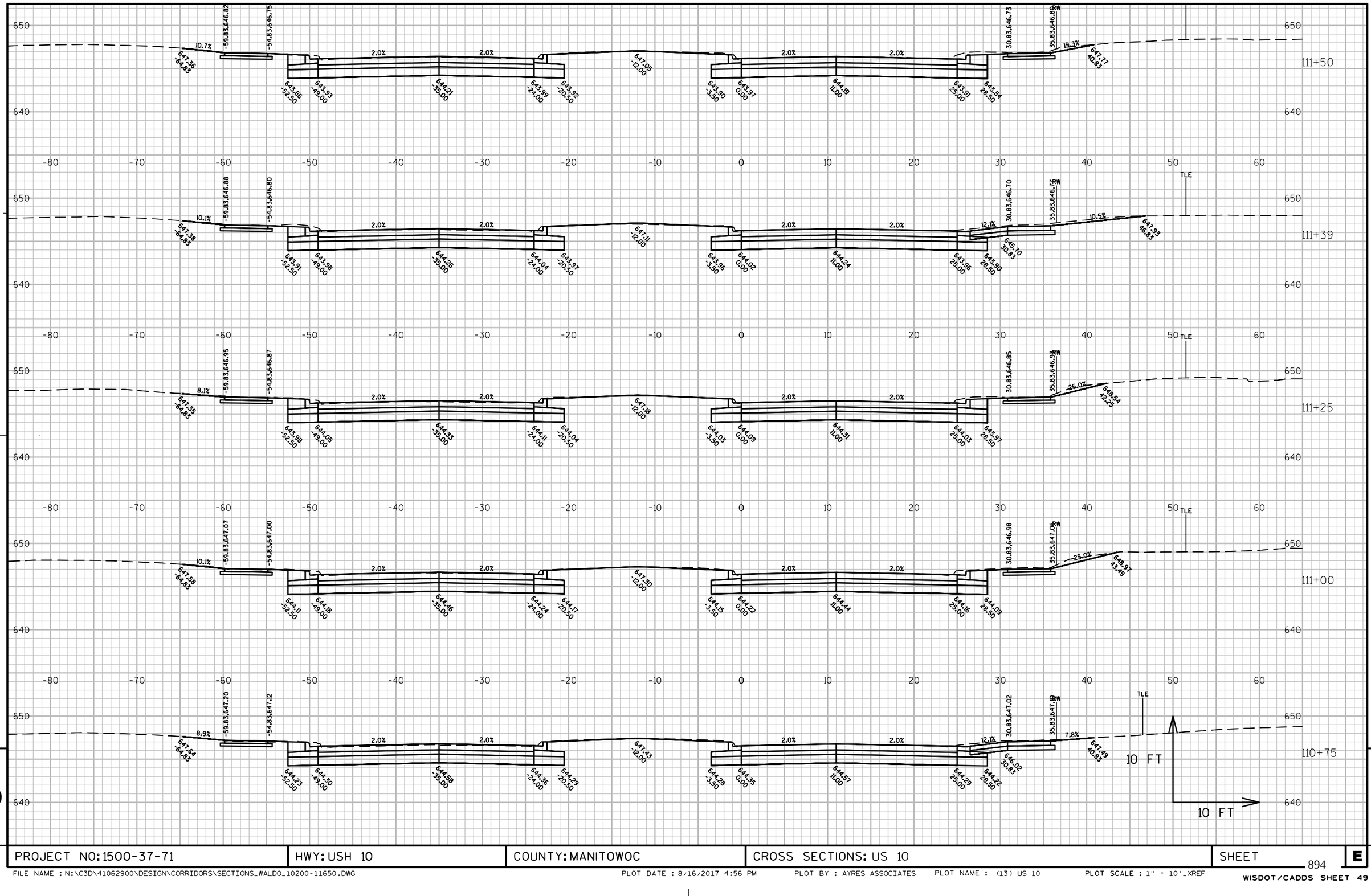
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_10200-11650.DWG PLOT DATE : 8/16/2017 2:13 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (12) US 10 PLOT SCALE : 1" = 10'_XREF

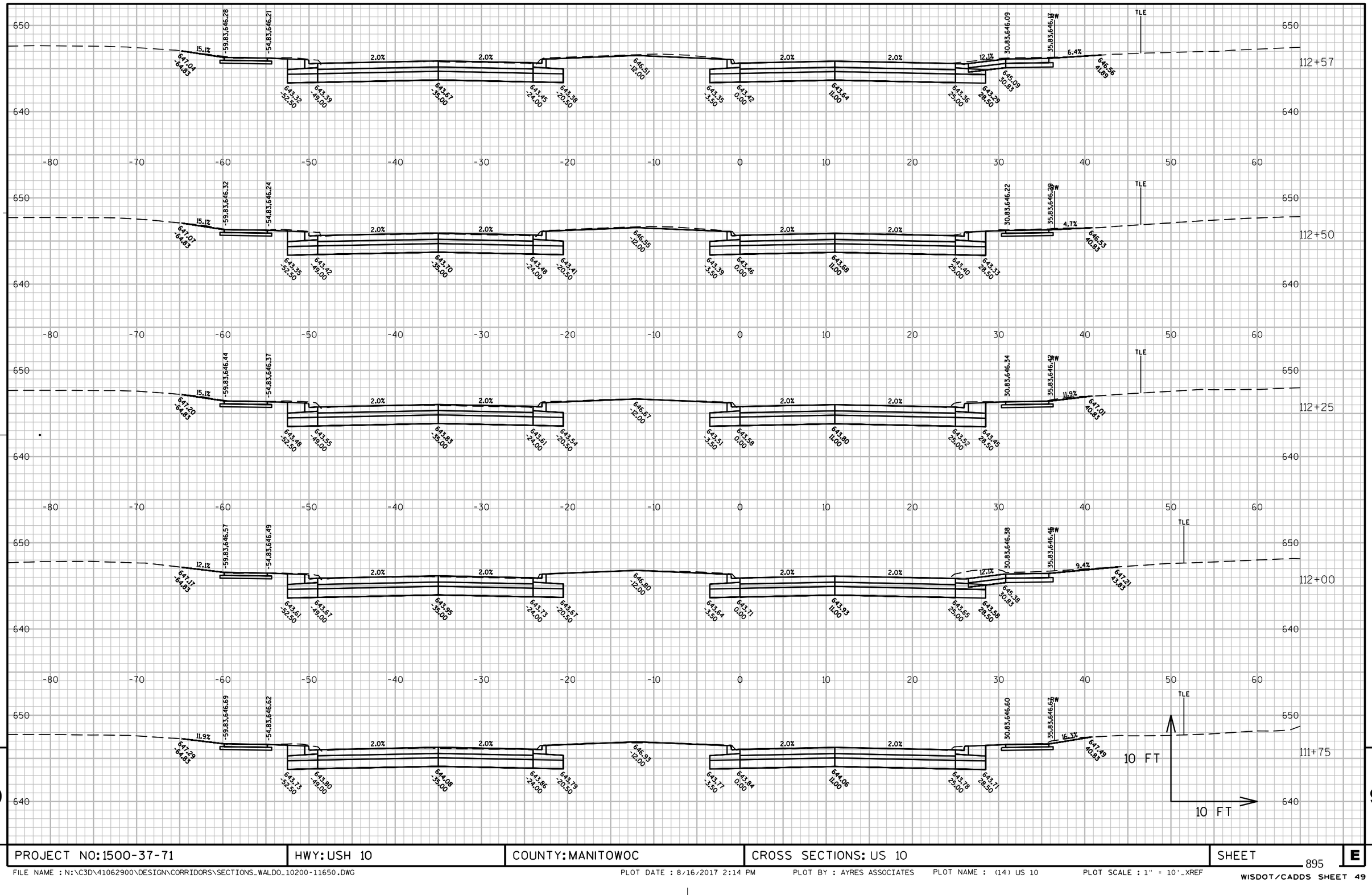
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 894	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_10200-11650.DWG PLOT DATE : 8/16/2017 4:56 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (13) US 10 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



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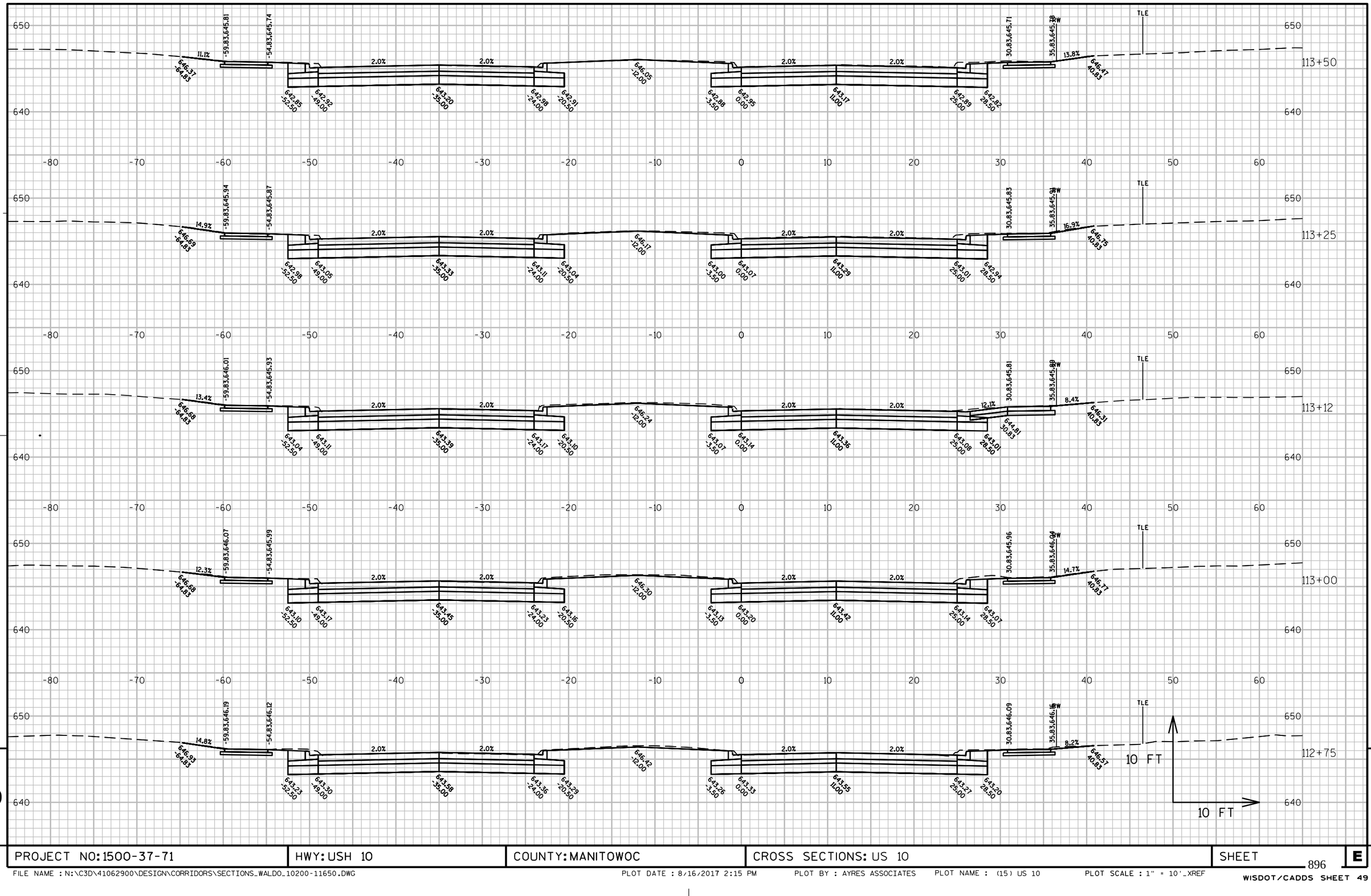
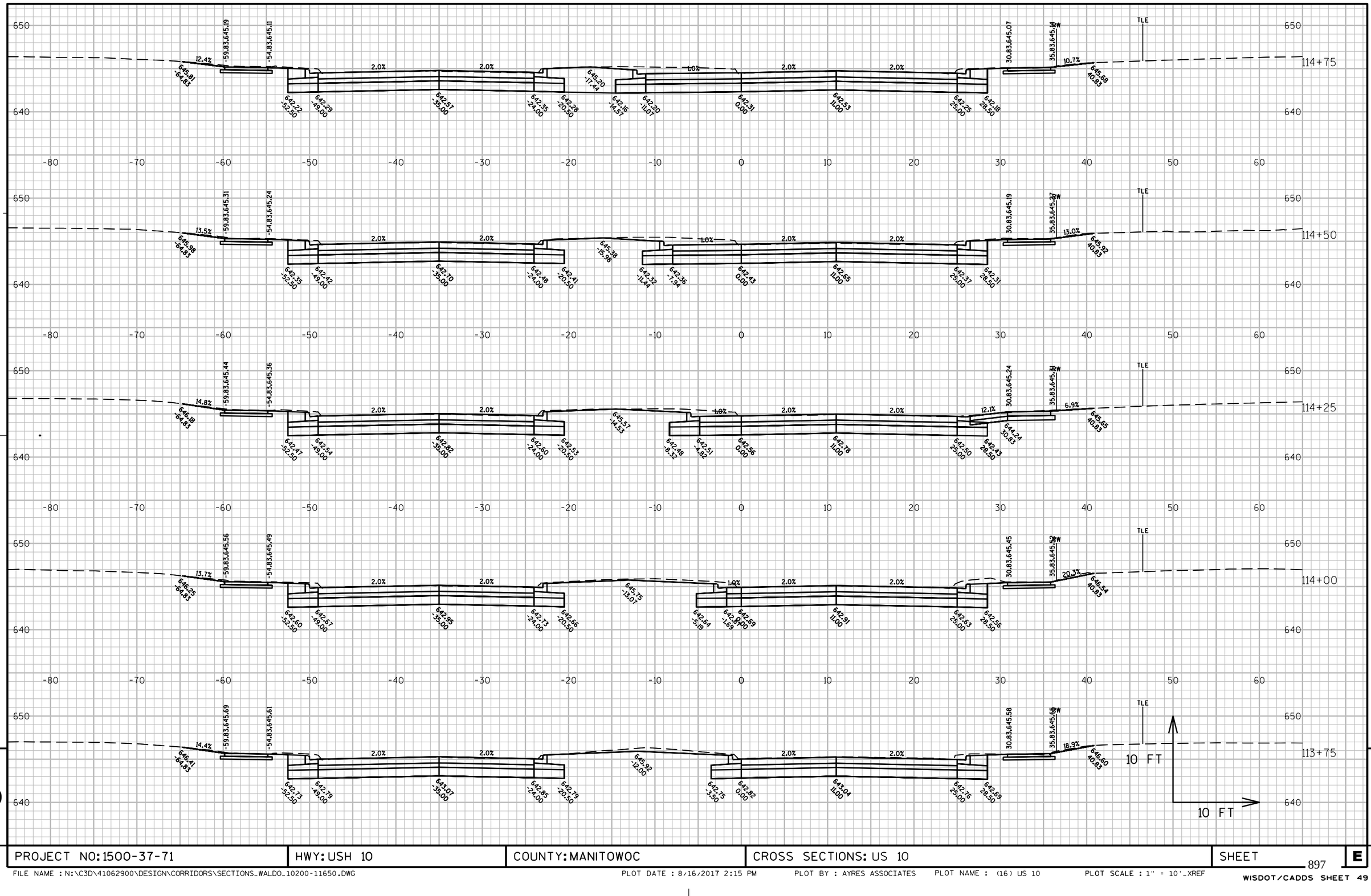
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_10200-11650.DWG PLOT DATE : 8/16/2017 2:14 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (14) US 10 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E



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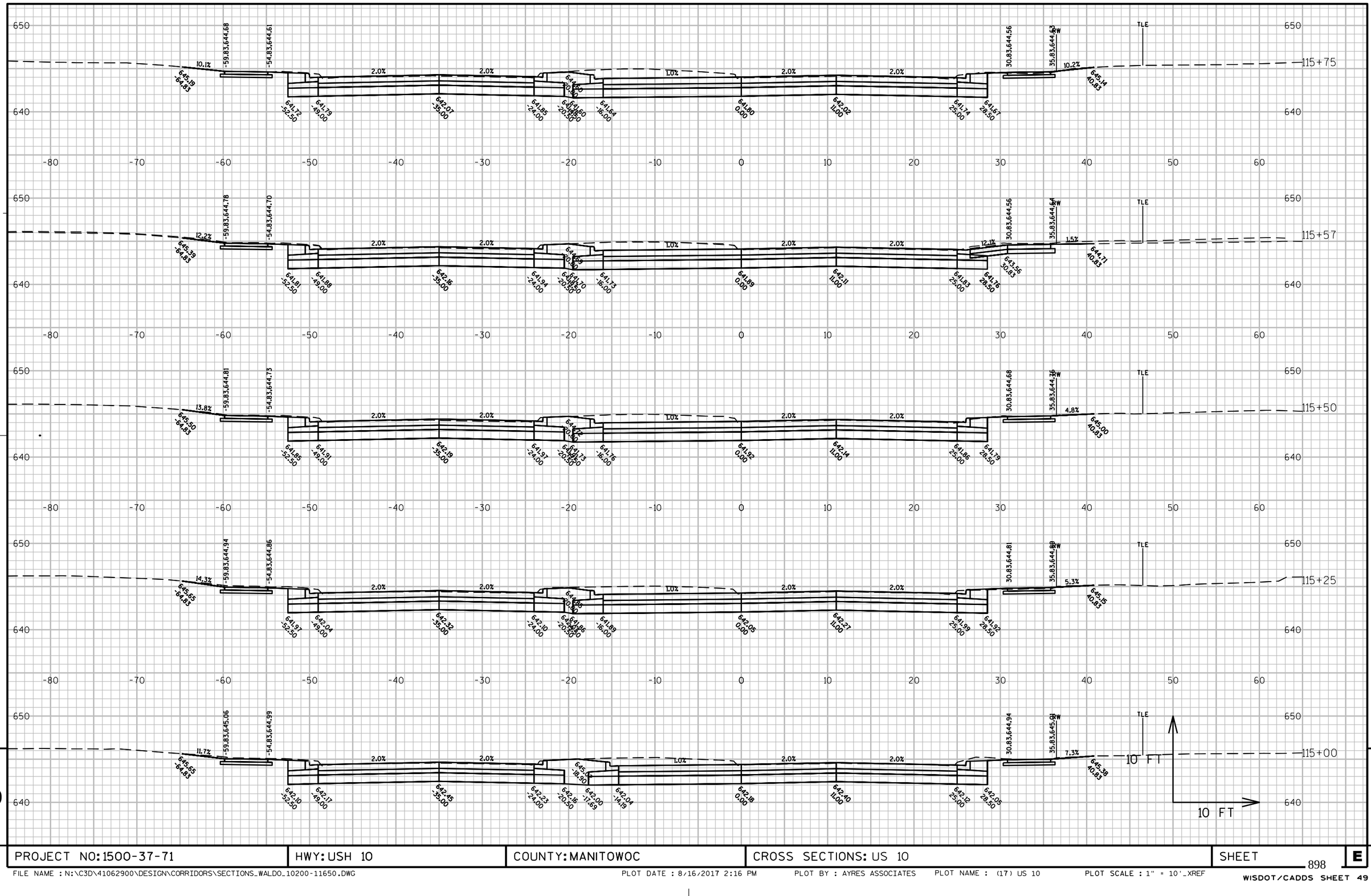
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E

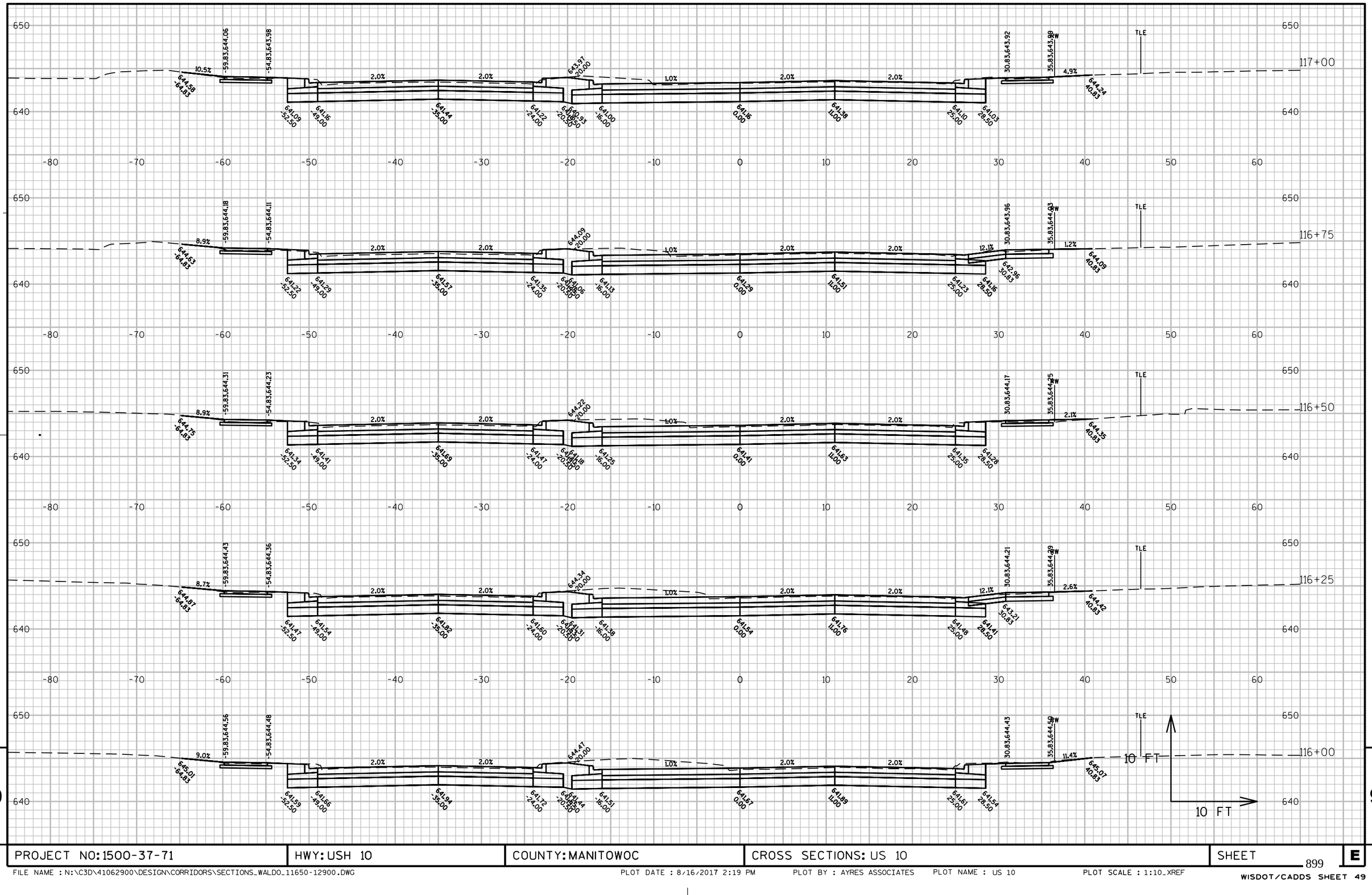
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_10200-11650.DWG PLOT DATE : 8/16/2017 2:15 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (16) US 10 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 898 E

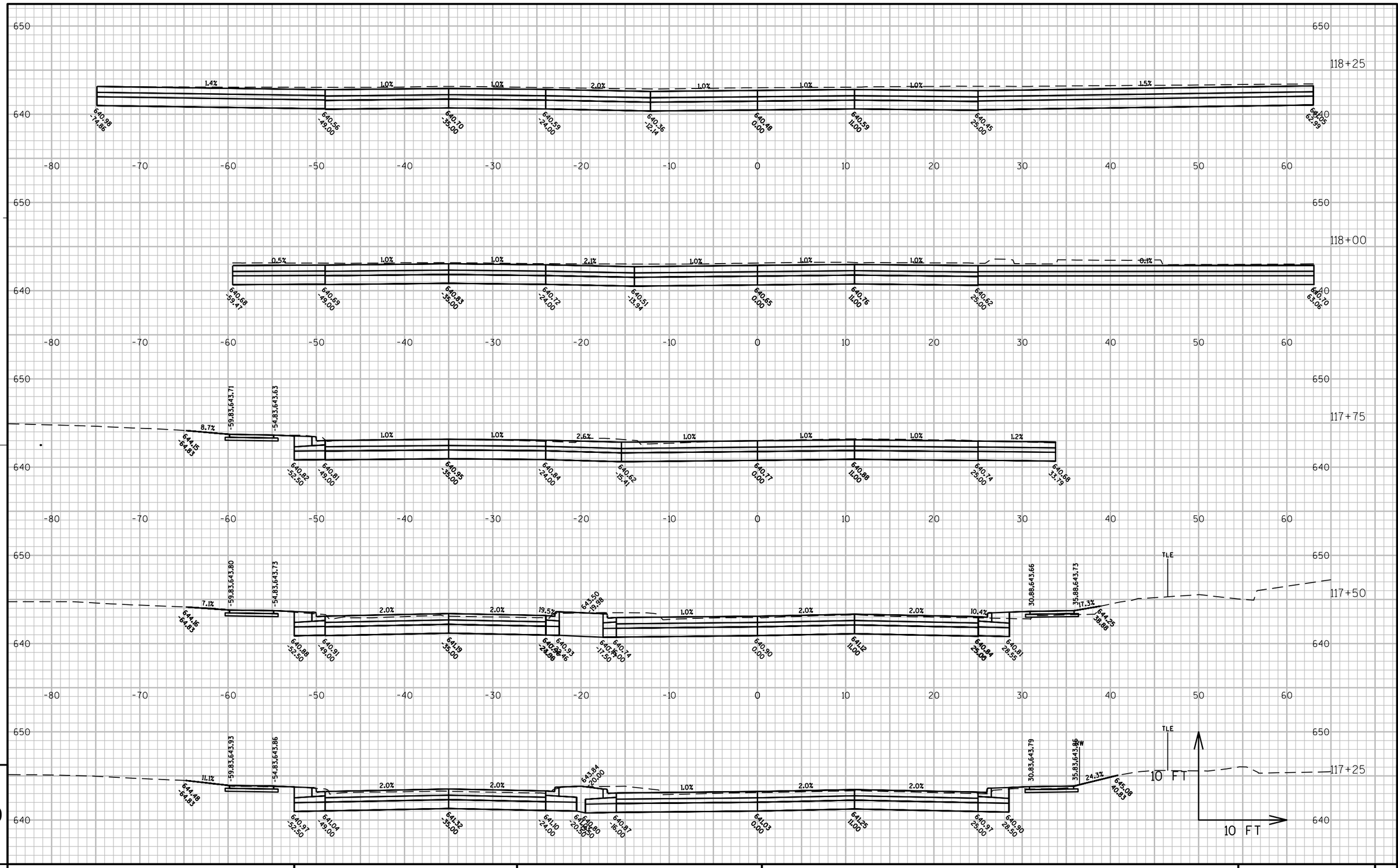
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_10200-11650.DWG PLOT DATE : 8/16/2017 2:16 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (17) US 10 PLOT SCALE : 1" = 10'_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 899	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_11650-12900.DWG PLOT DATE : 8/16/2017 2:19 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : US 10 PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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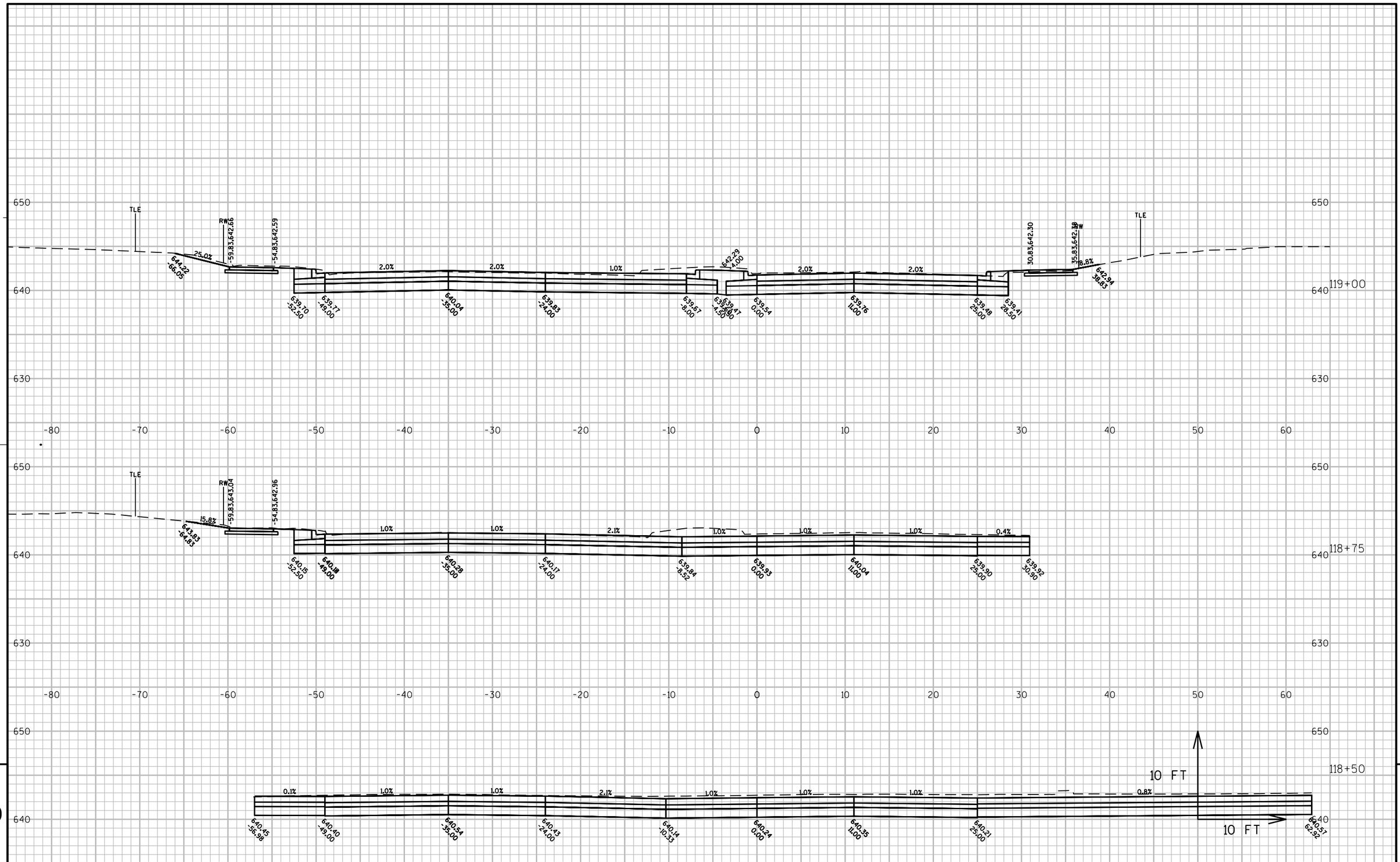
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 900	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_11650-12900.DWG PLOT DATE : 8/16/2017 2:19 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (15) US 10 PLOT SCALE : 1:10_XREF



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E

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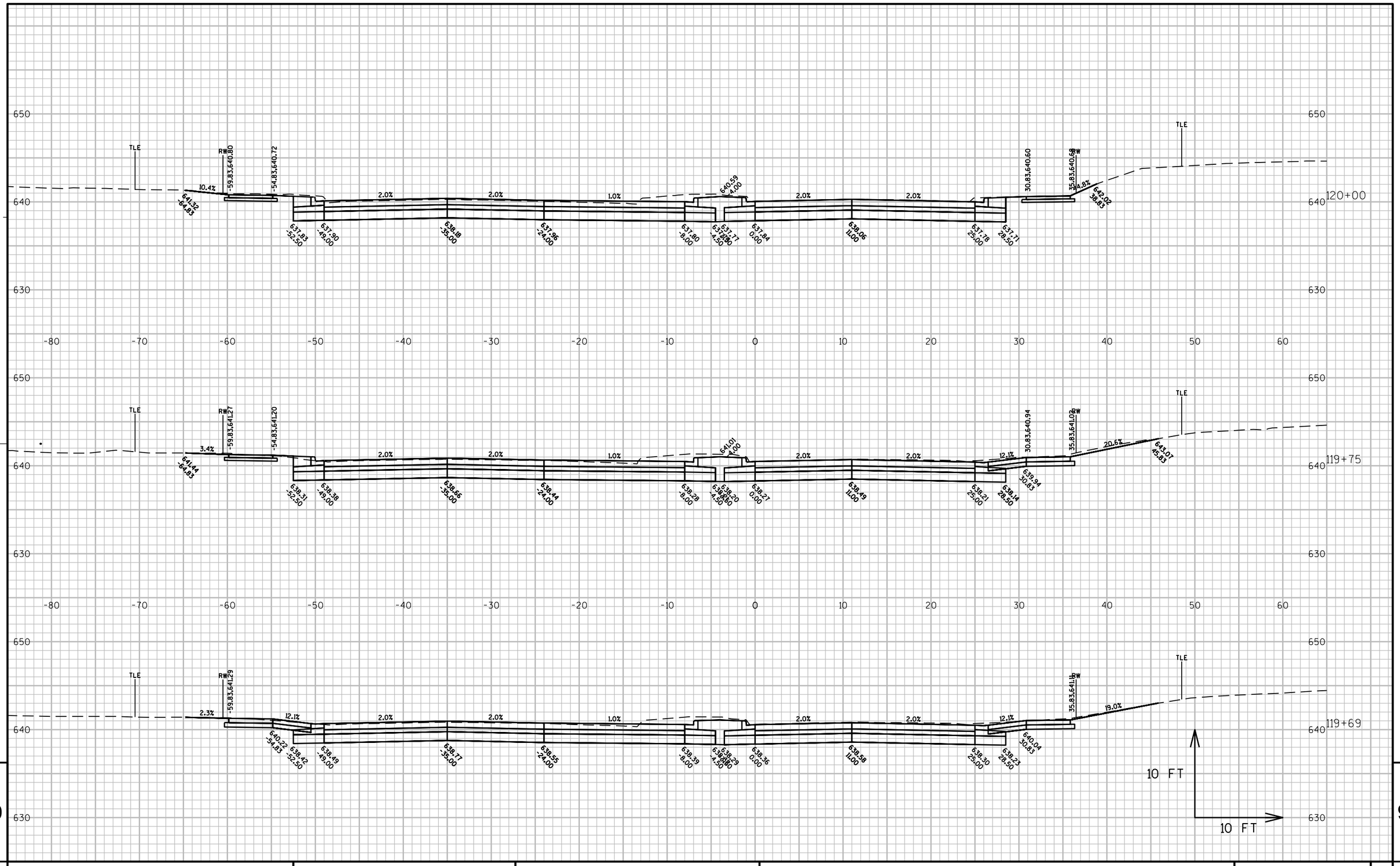
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E

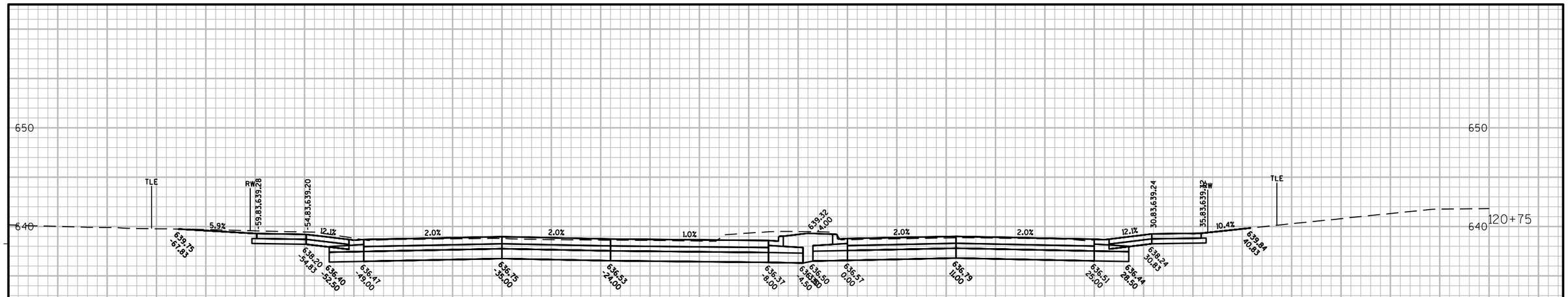
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_11650-12900.DWG PLOT DATE : 8/16/2017 2:20 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (17) US 10 PLOT SCALE : 1:10_XREF
WISDOT/CADDS SHEET 49

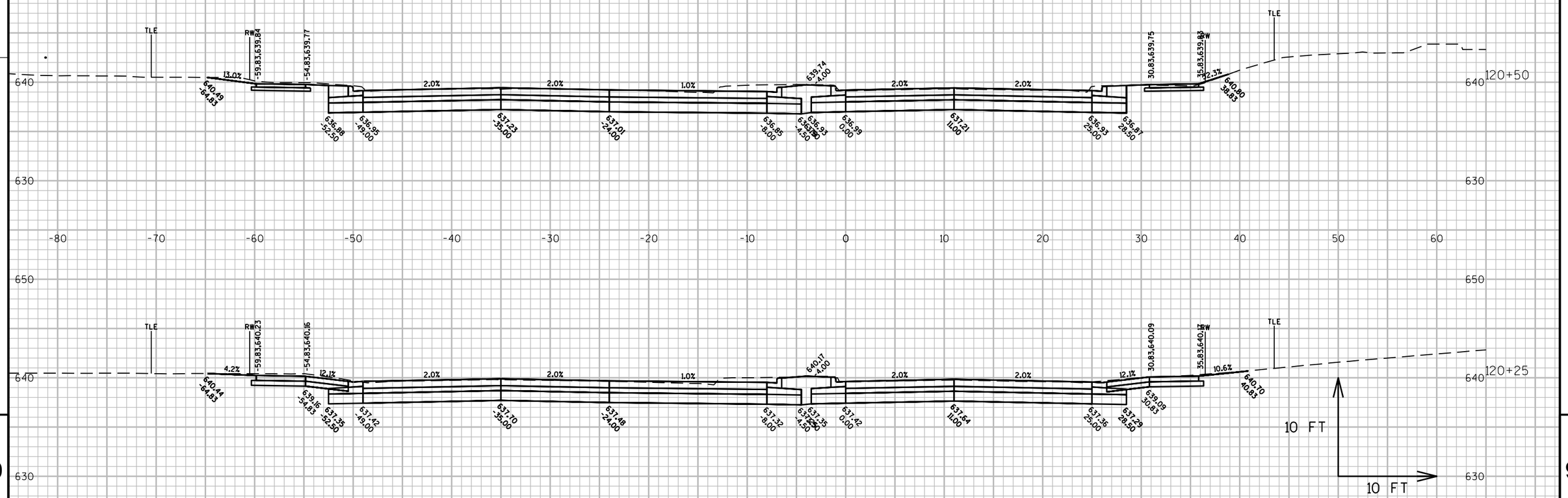


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 903	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_11650-12900.DWG PLOT DATE : 8/16/2017 2:20 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (18) US 10 PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49

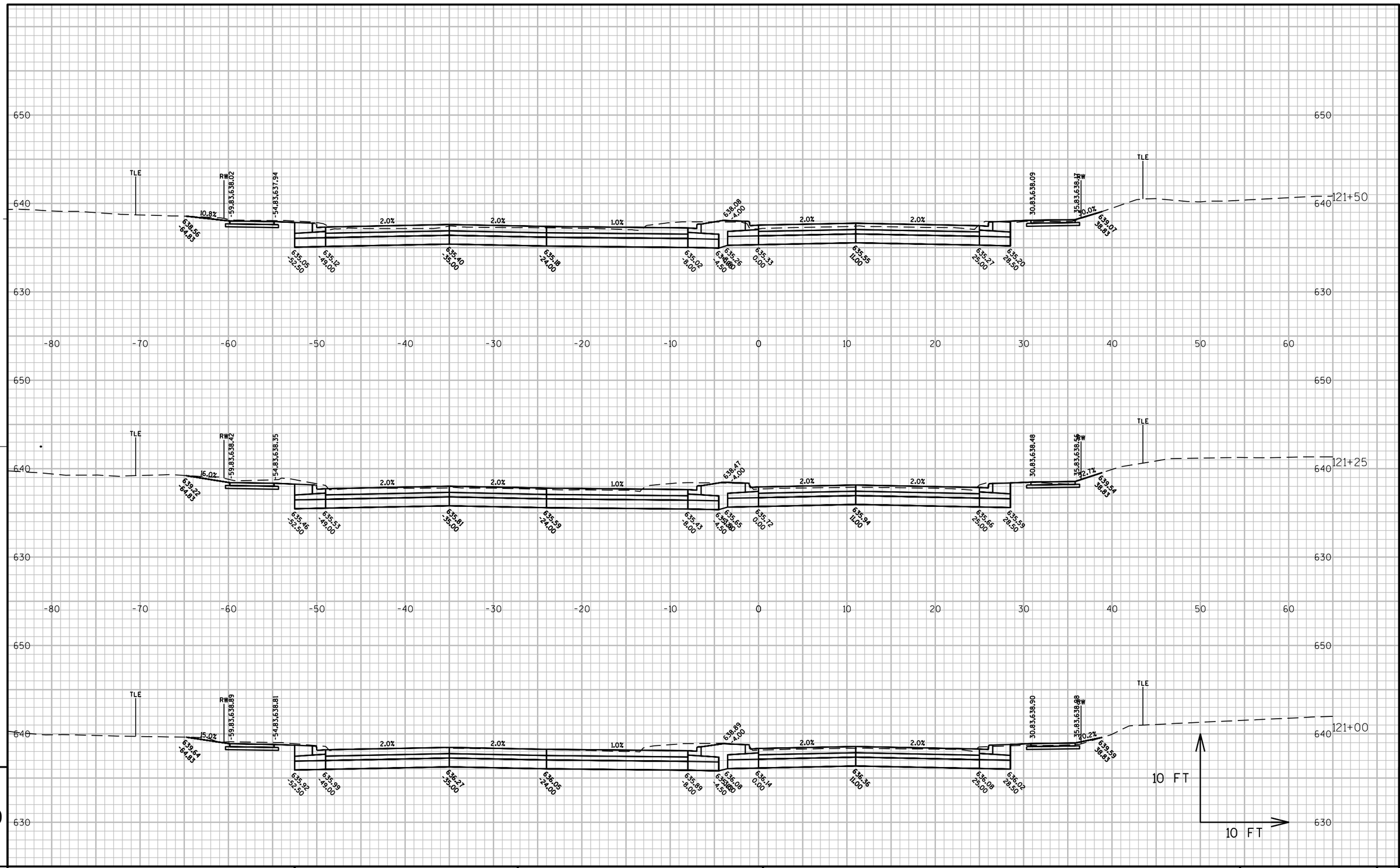




PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_11650-12900.DWG PLOT DATE : 8/16/2017 2:20 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (19) US 10 PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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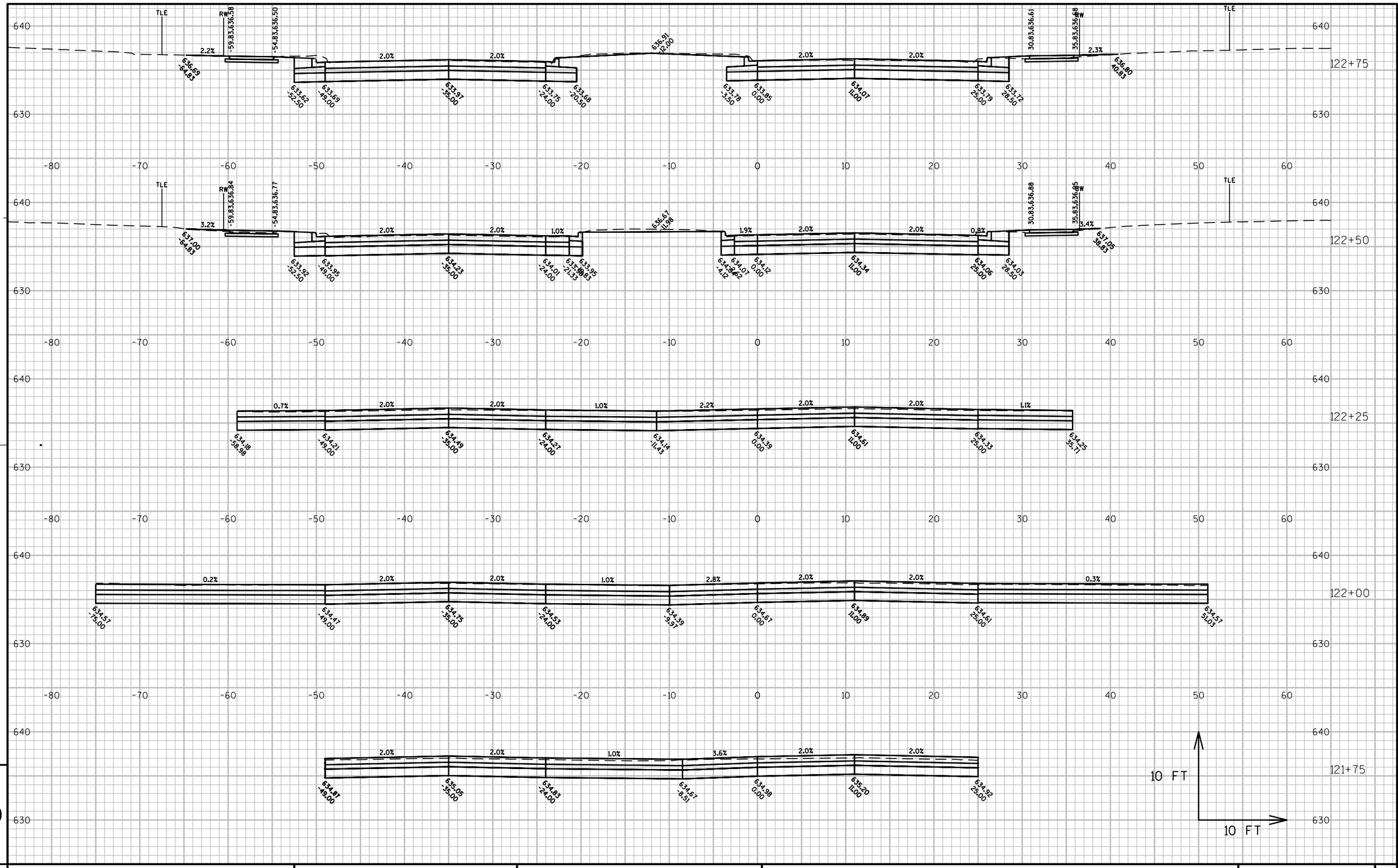
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 905	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_11650-12900.DWG PLOT DATE : 8/16/2017 2:20 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (20) US 10 PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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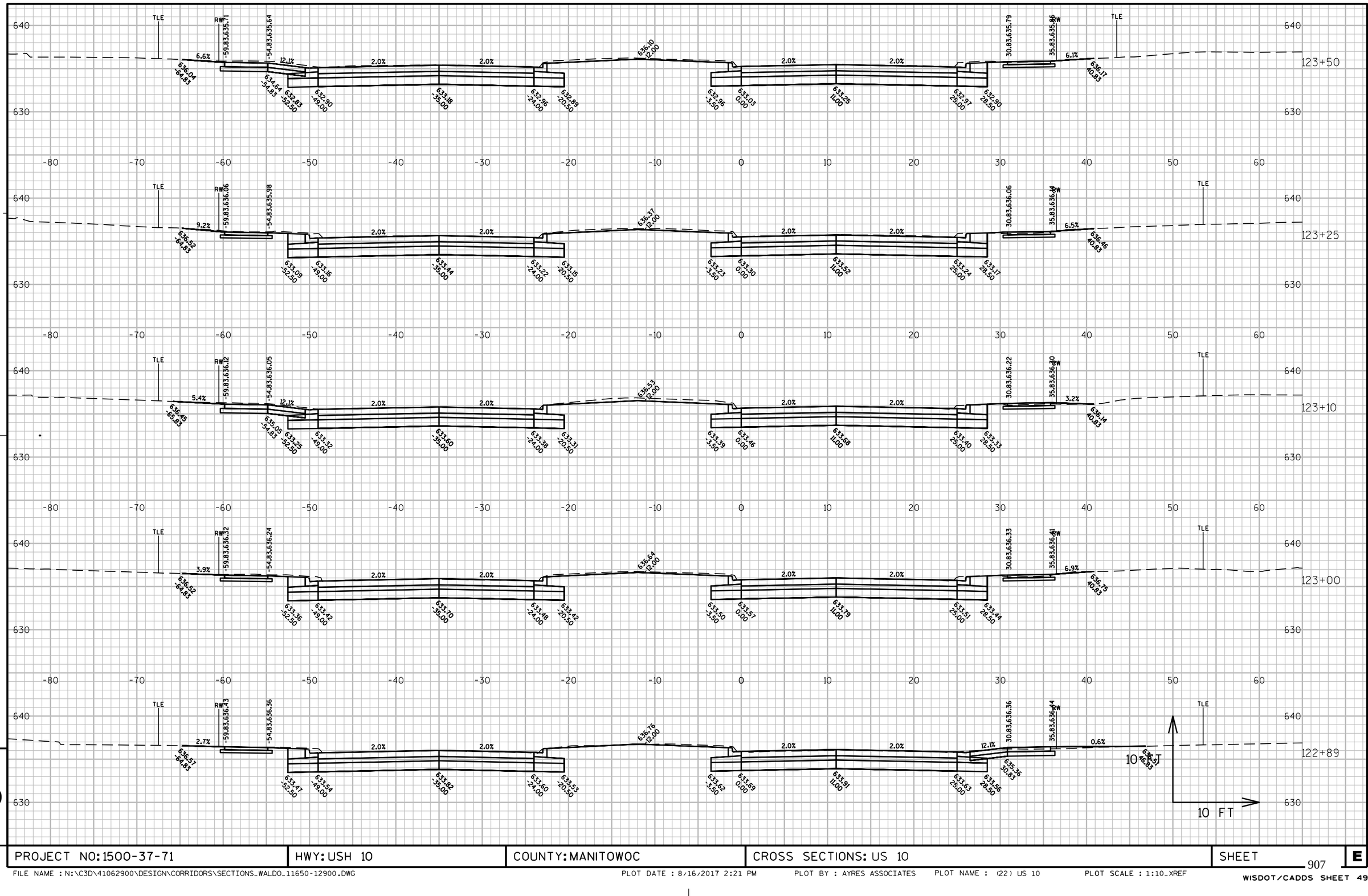
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 906	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_11650-12900.DWG PLOT DATE : 8/16/2017 2:21 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (21) US 10 PLOT SCALE : 1:10_XREF

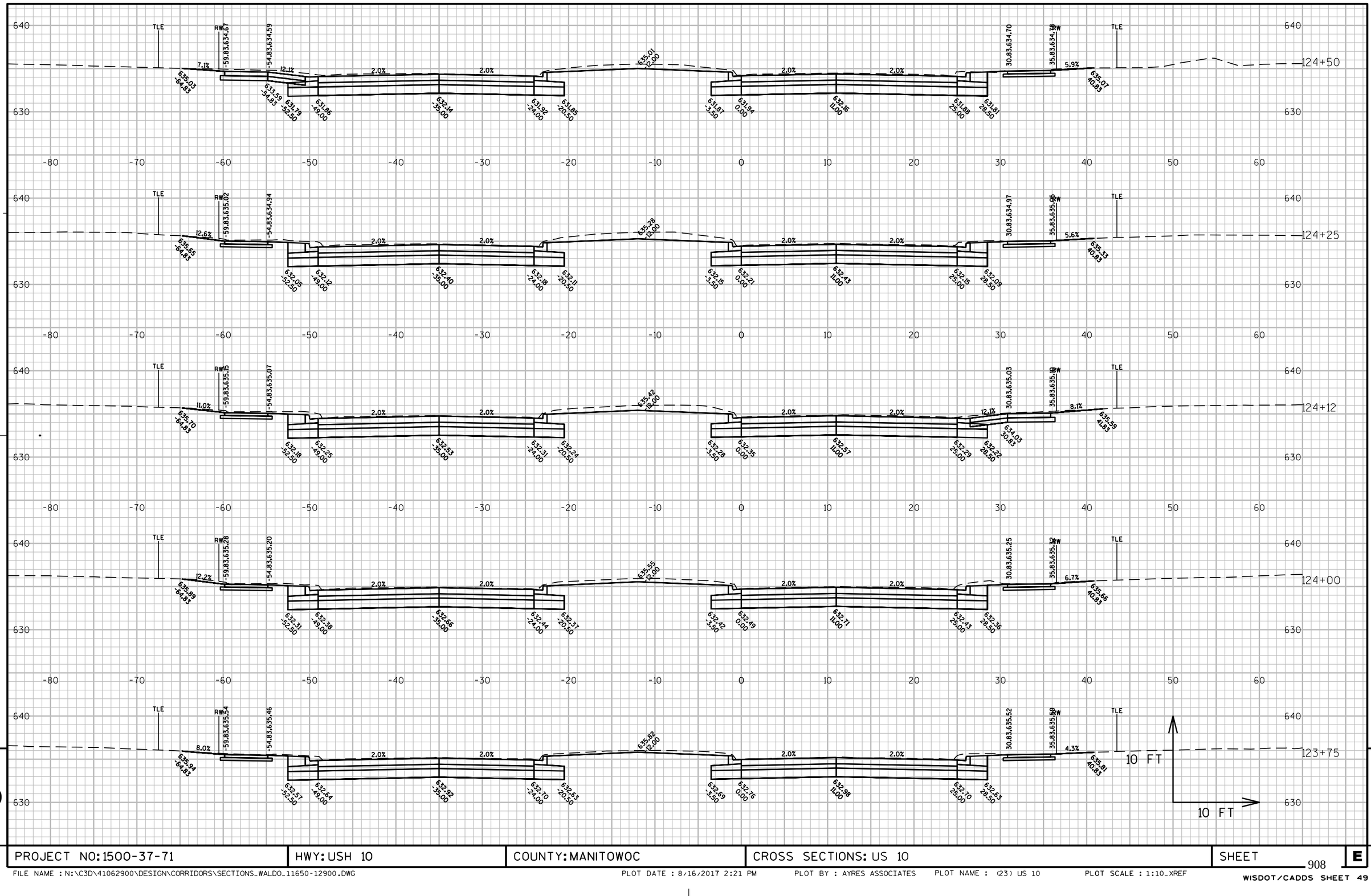
WISDOT/CADDS SHEET 49



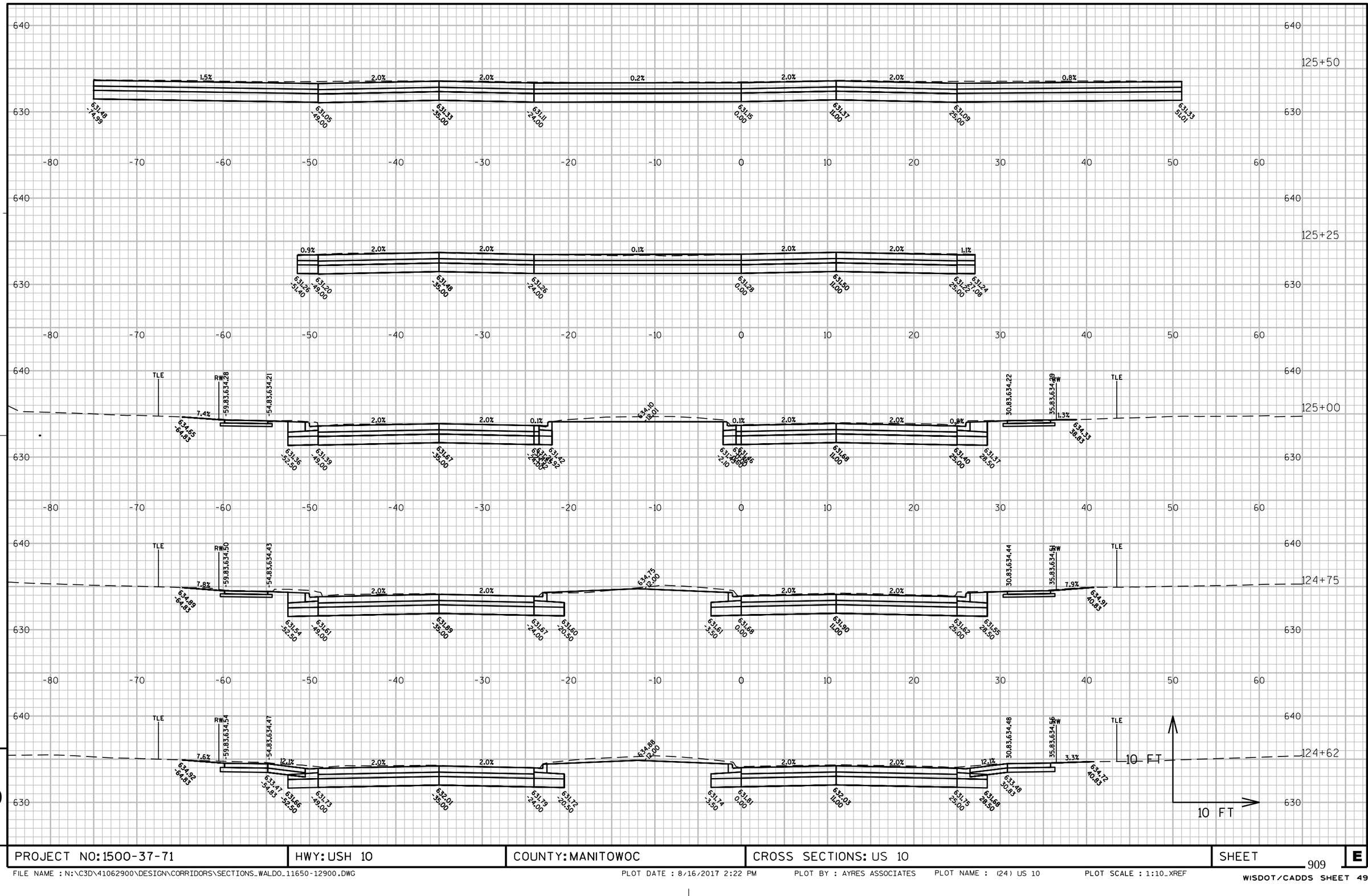
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 907	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_11650-12900.DWG PLOT DATE : 8/16/2017 2:21 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (22) US 10 PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E



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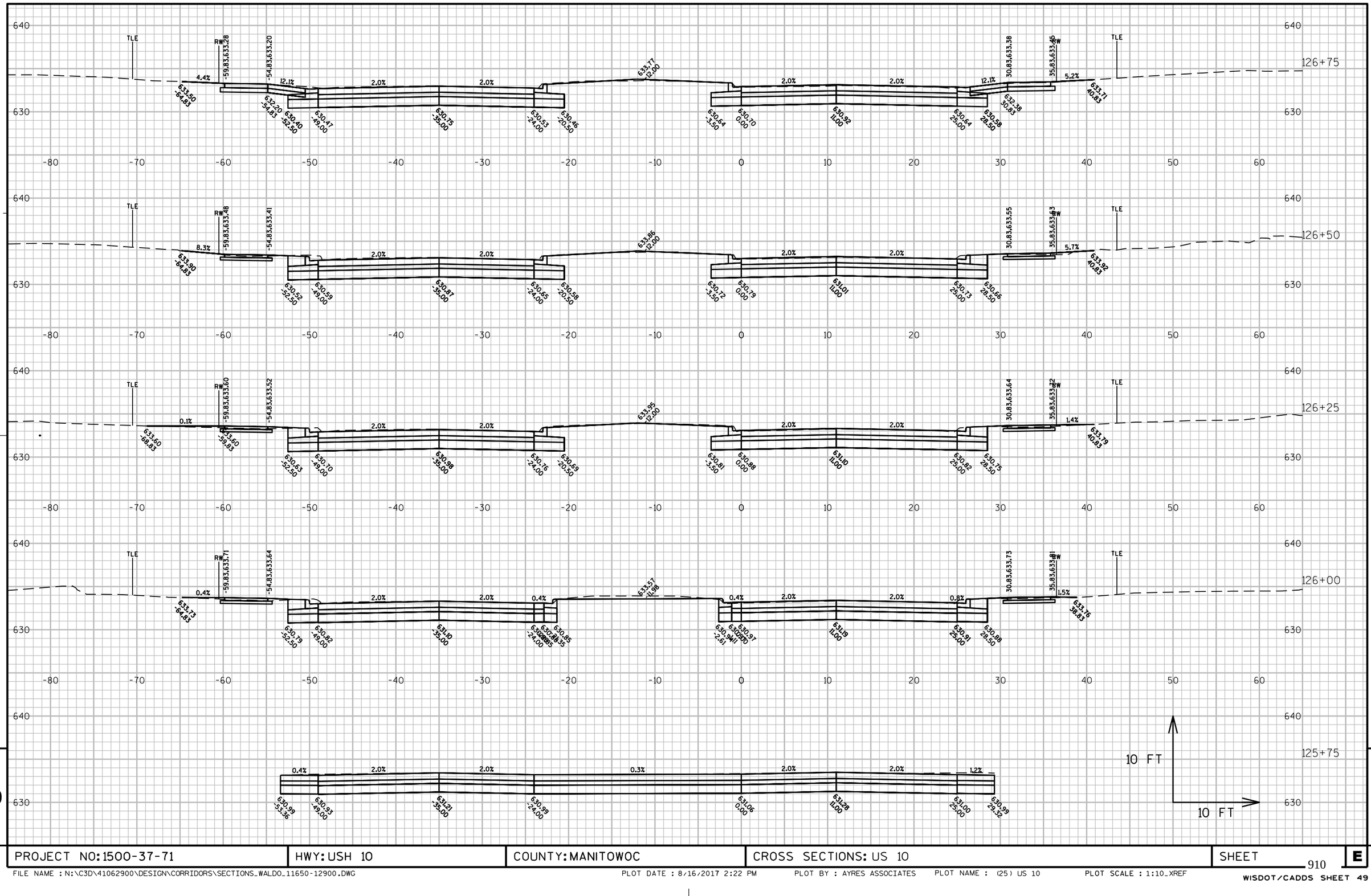
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_11650-12900.DWG PLOT DATE : 8/16/2017 2:22 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (24) US 10 PLOT SCALE : 1:10_XREF



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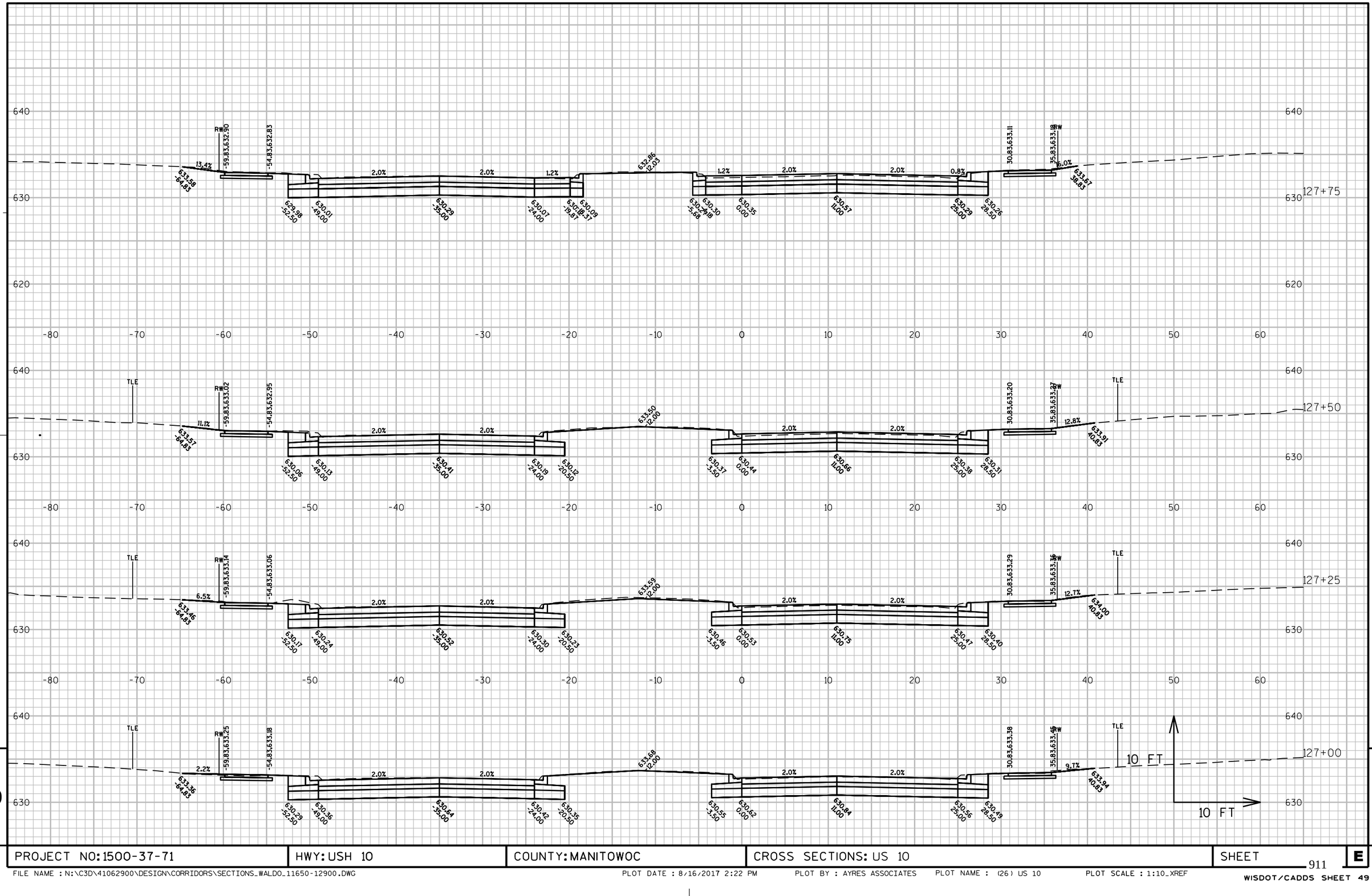
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 910	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_11650-12900.DWG PLOT DATE : 8/16/2017 2:22 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (25) US 10 PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E

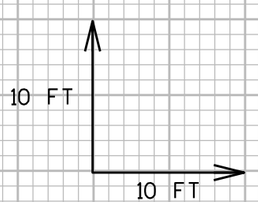
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_11650-12900.DWG PLOT DATE : 8/16/2017 2:22 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (26) US 10 PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49

128+50

128+25

128+00



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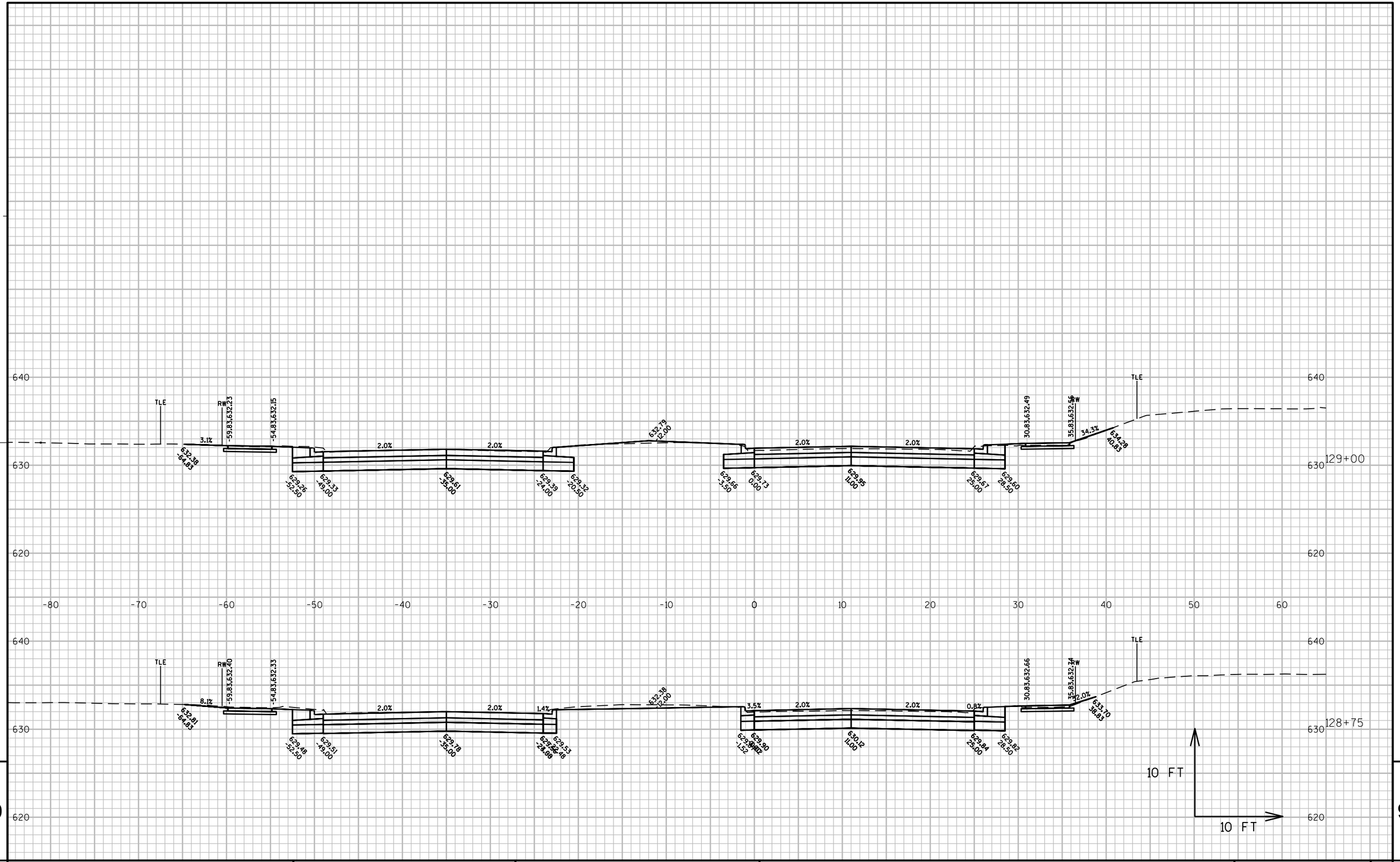
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 912	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_11650-12900.DWG PLOT DATE : 8/16/2017 2:23 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (26) US 10 (2) PLOT SCALE : 1:10_XREF

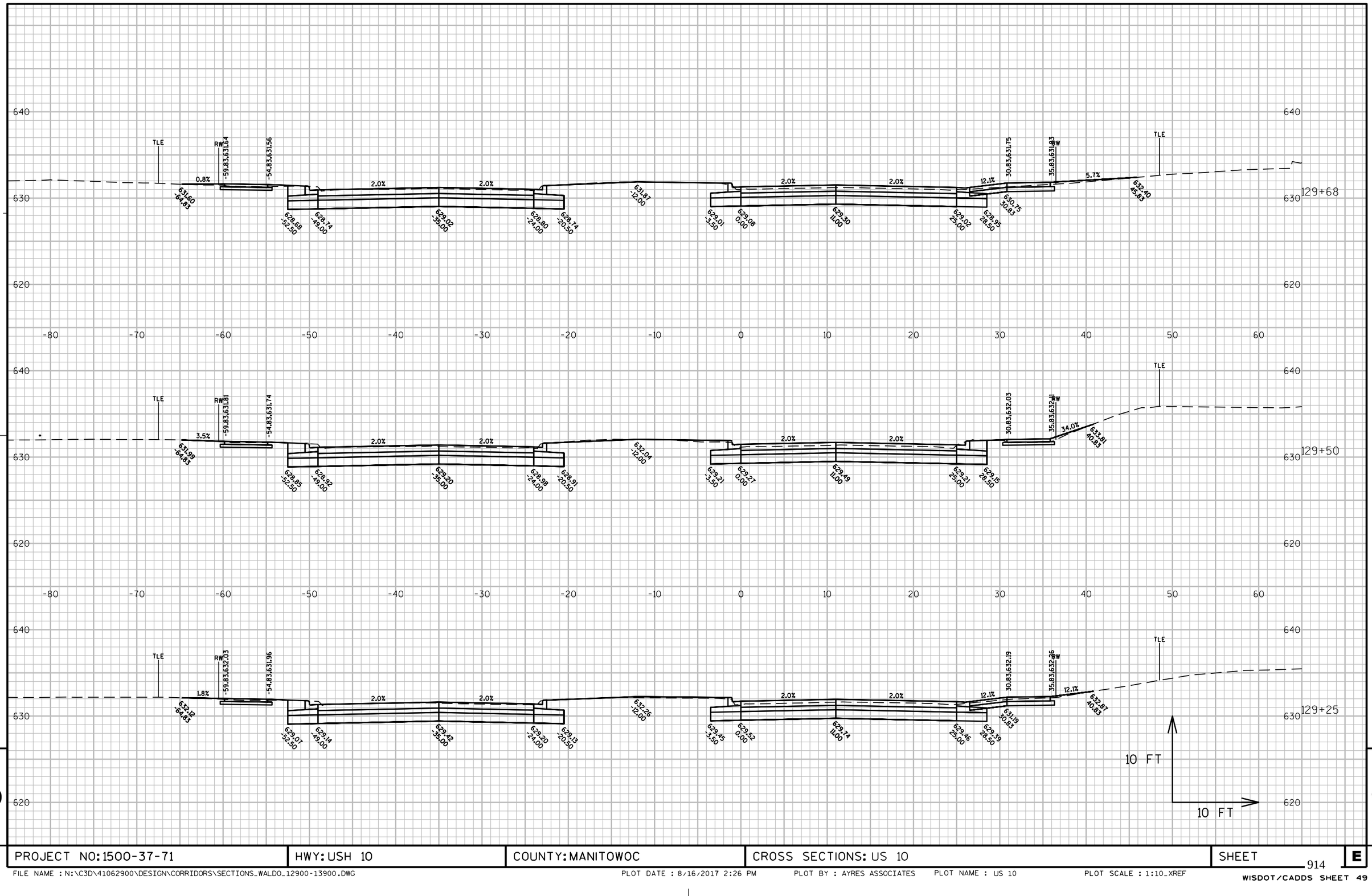
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 913	E

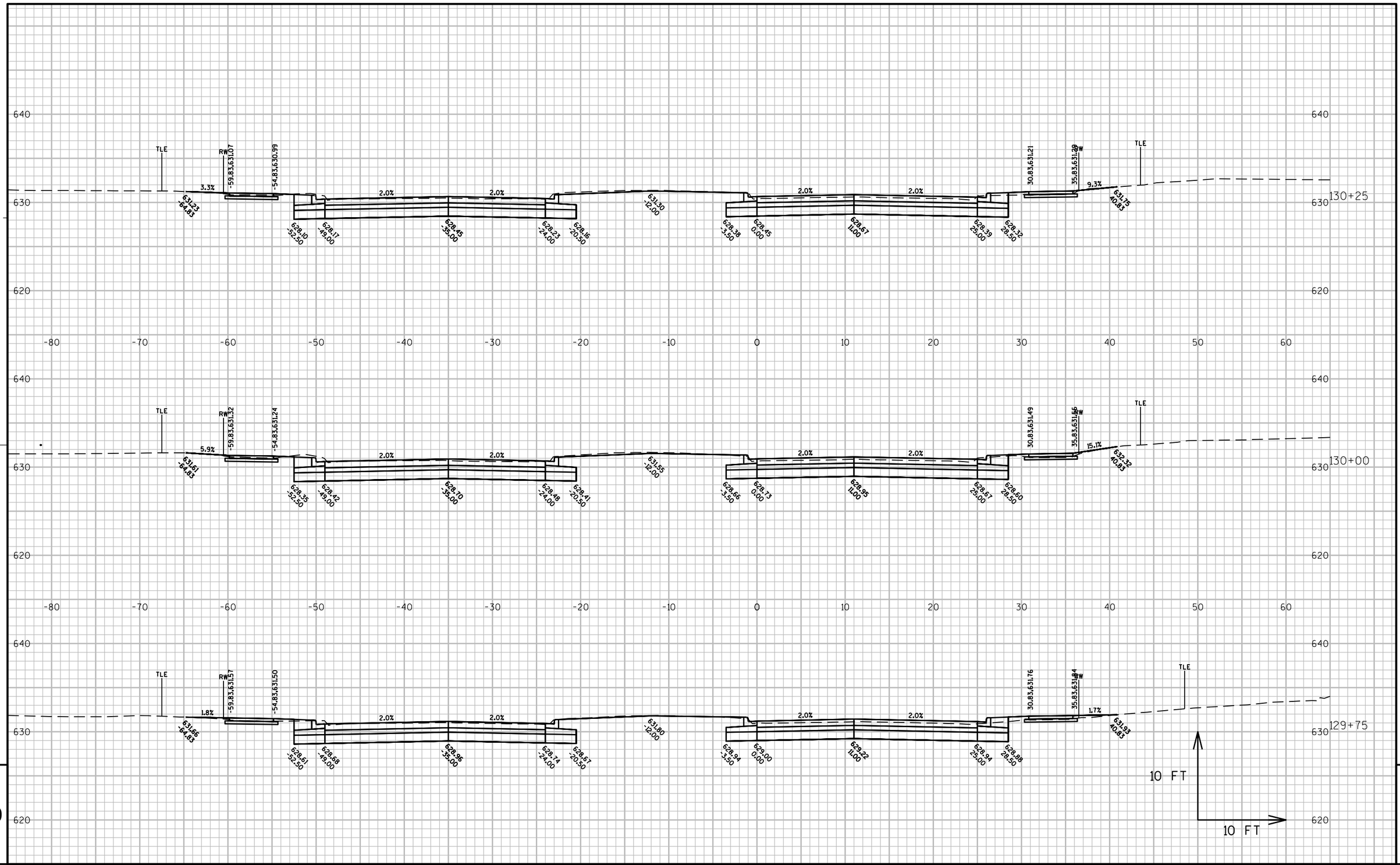
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_11650-12900.DWG PLOT DATE : 8/16/2017 2:24 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (26) US 10 (2) (2) PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



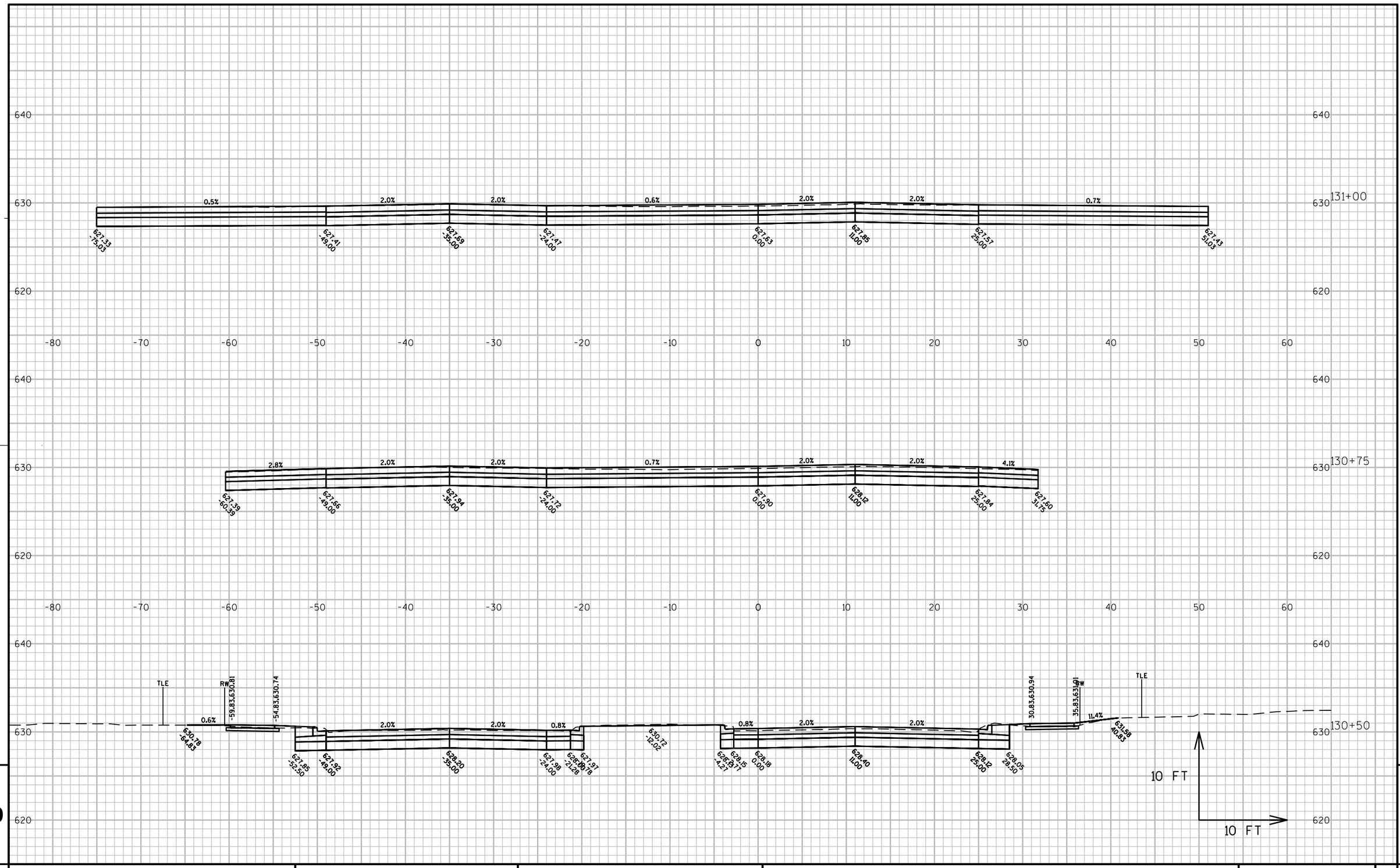
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_12900-13900.DWG PLOT DATE : 8/16/2017 2:26 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : US 10 PLOT SCALE : 1:10_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_12900-13900.DWG PLOT DATE : 8/16/2017 2:26 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (2) US 10 PLOT SCALE : 1:10_XREF



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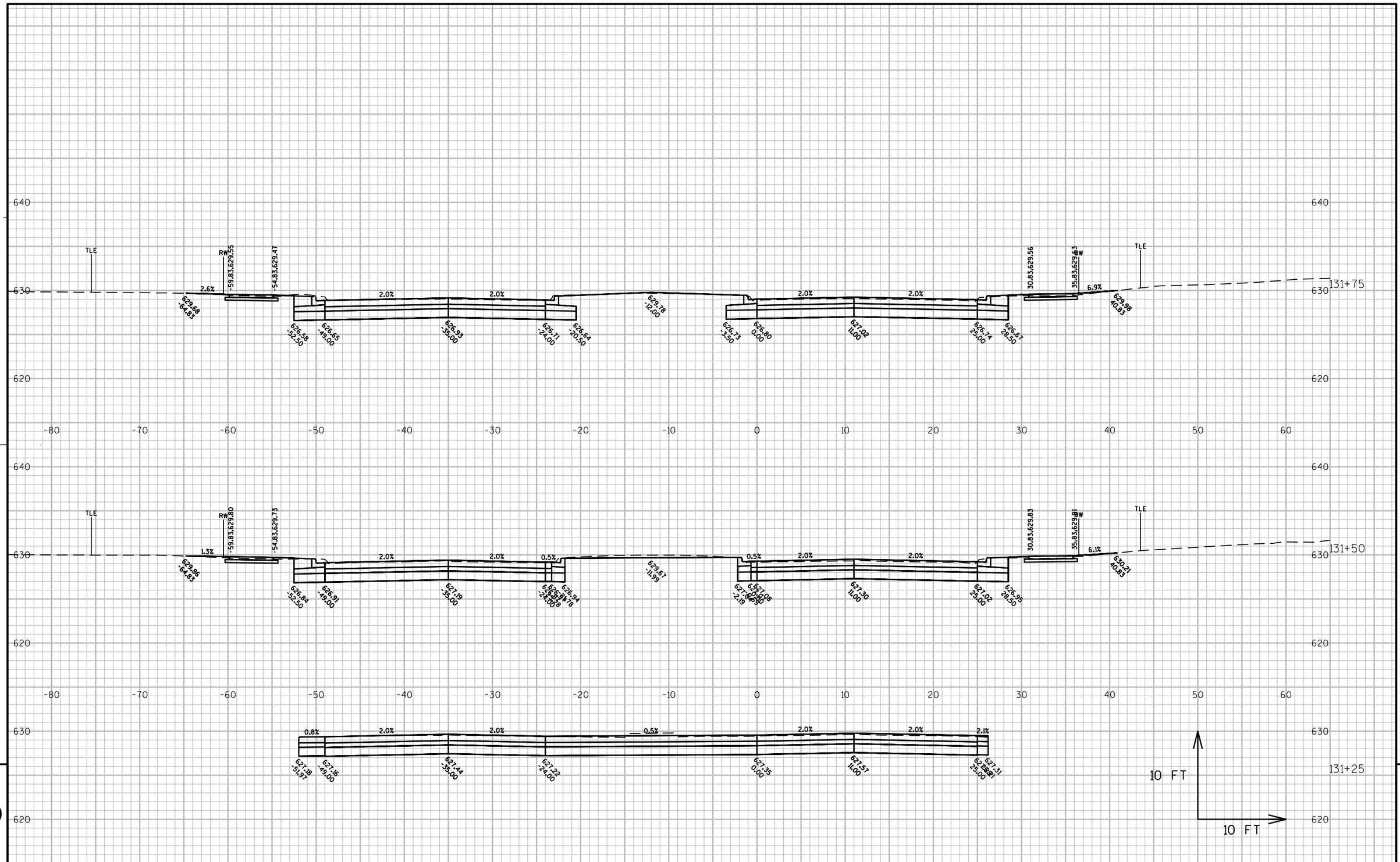
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_12900-13900.DWG PLOT DATE : 8/17/2017 8:03 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : (3) US 10 PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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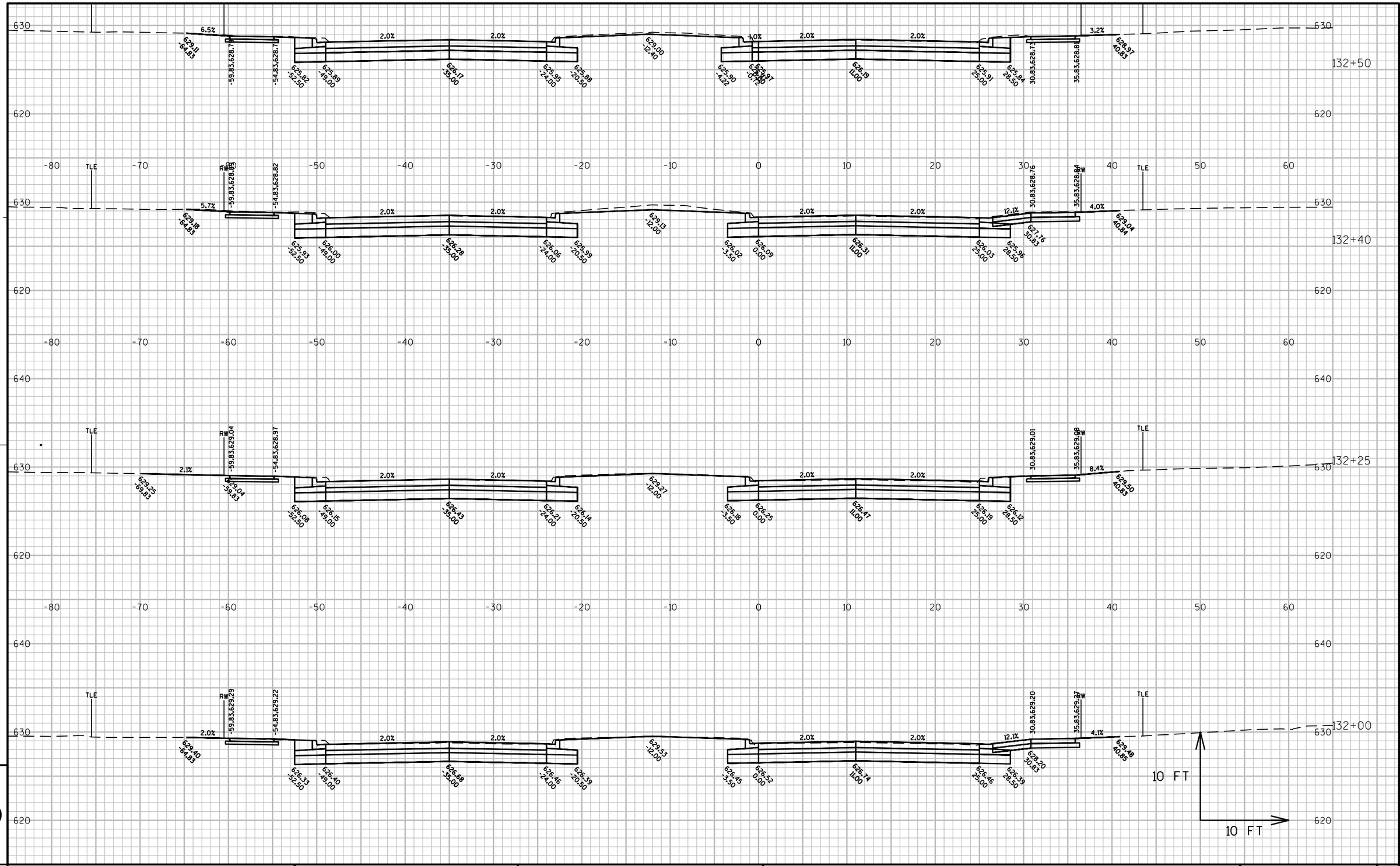
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_12900-13900.DWG PLOT DATE : 8/17/2017 8:19 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : (4) US 10 PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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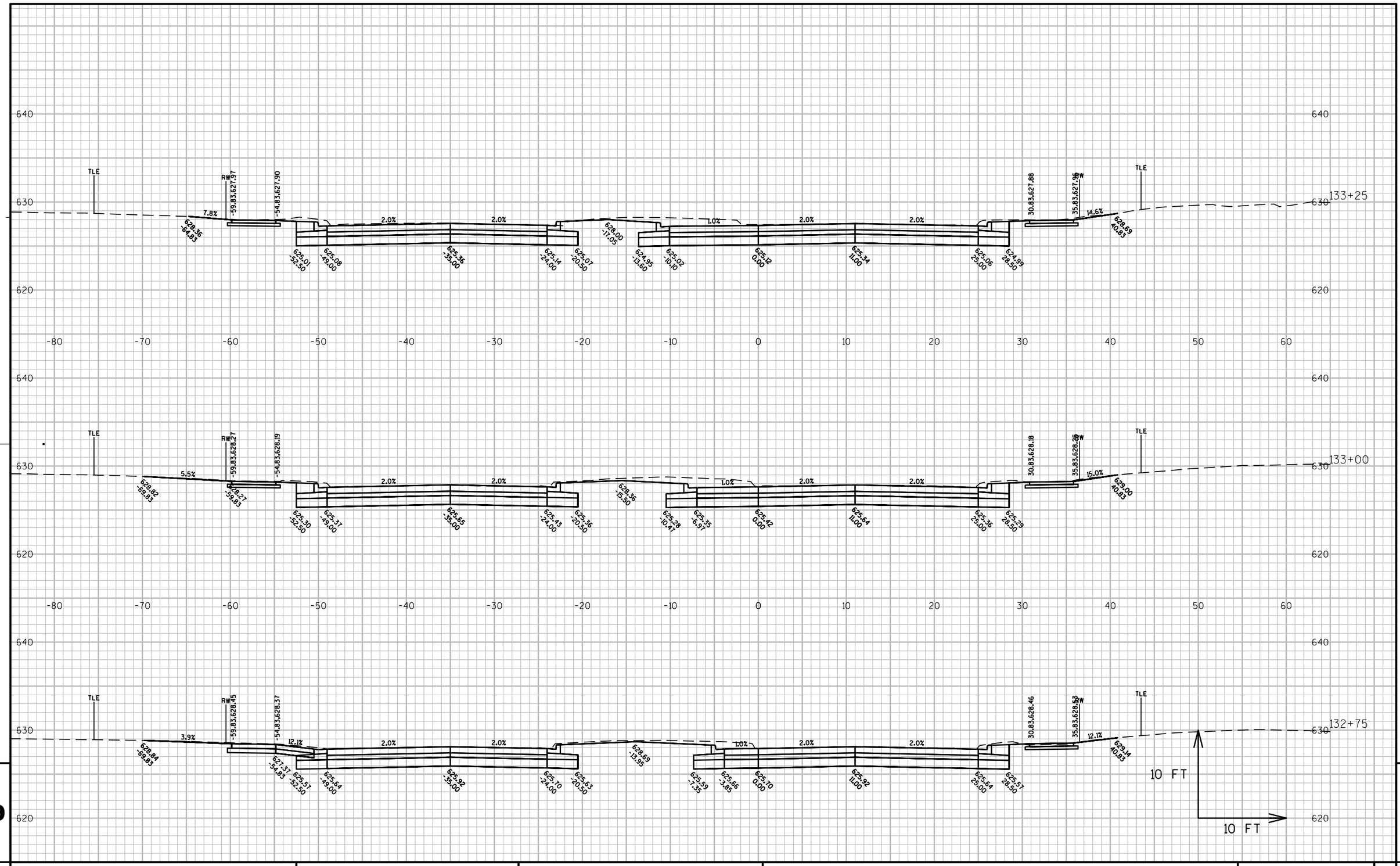
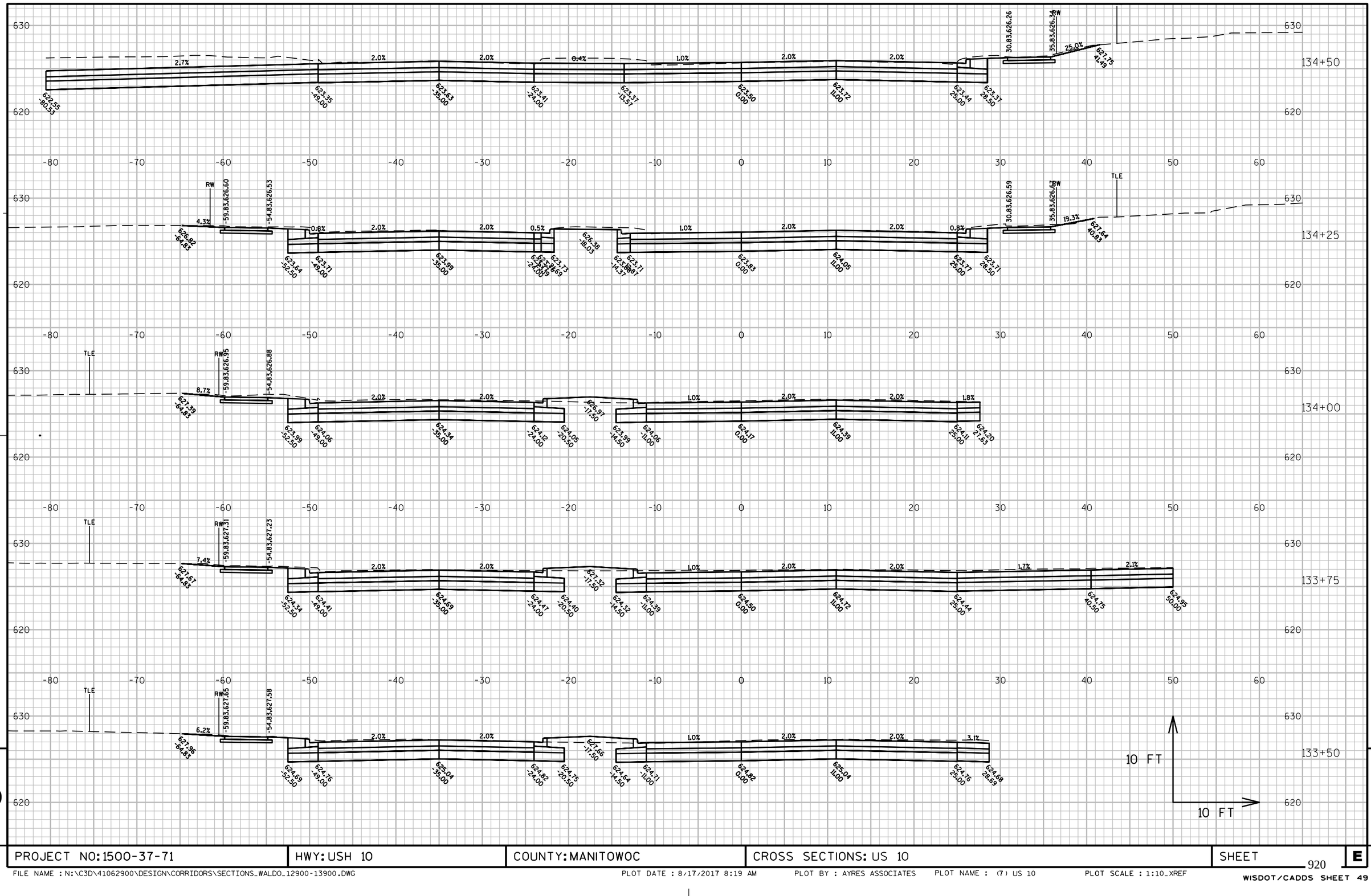
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 919	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_12900-13900.DWG PLOT DATE : 8/17/2017 8:19 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : (6) US 10 PLOT SCALE : 1:10_XREF

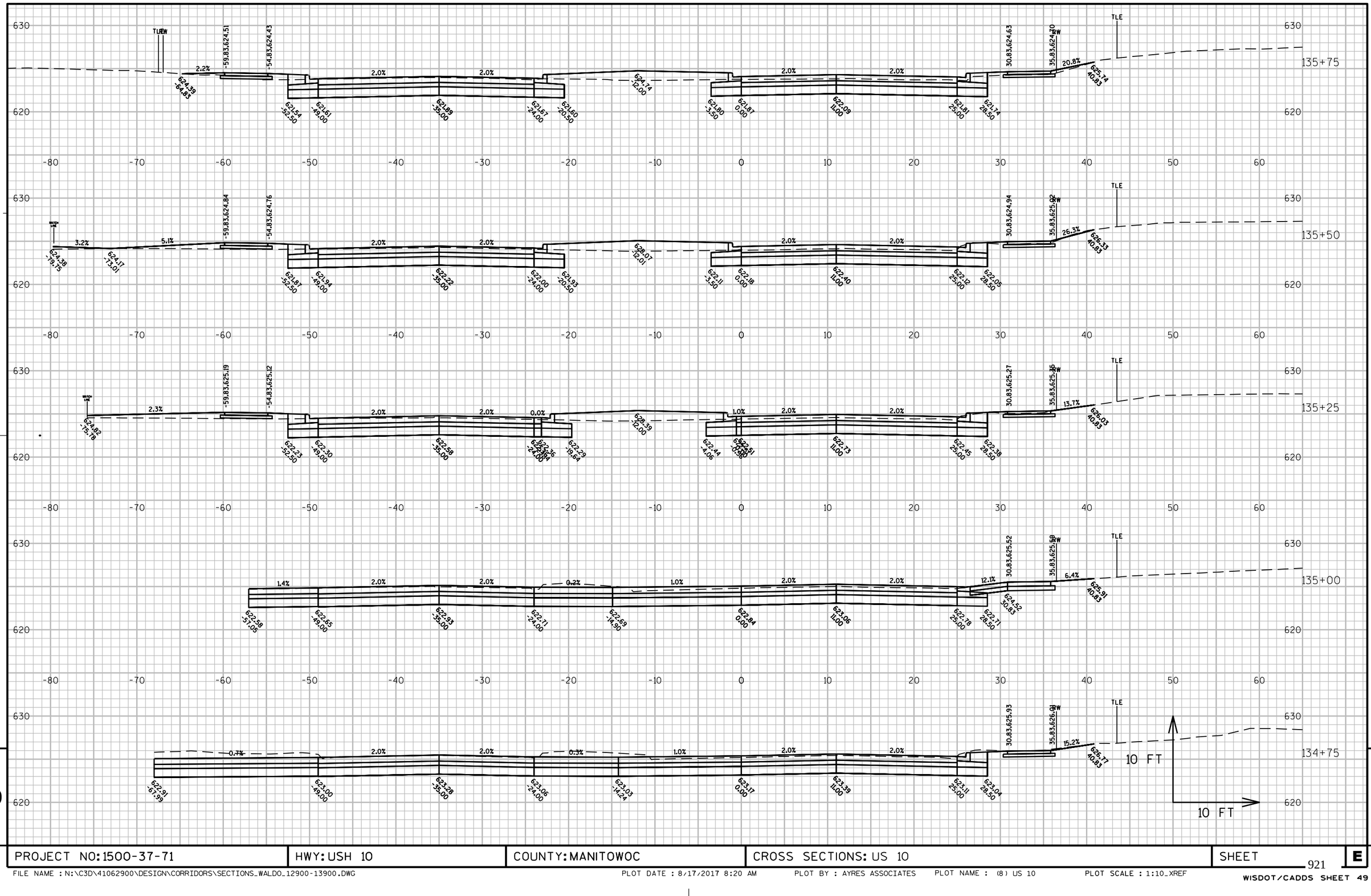
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 920	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_12900-13900.DWG PLOT DATE : 8/17/2017 8:19 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : (7) US 10 PLOT SCALE : 1:10_XREF

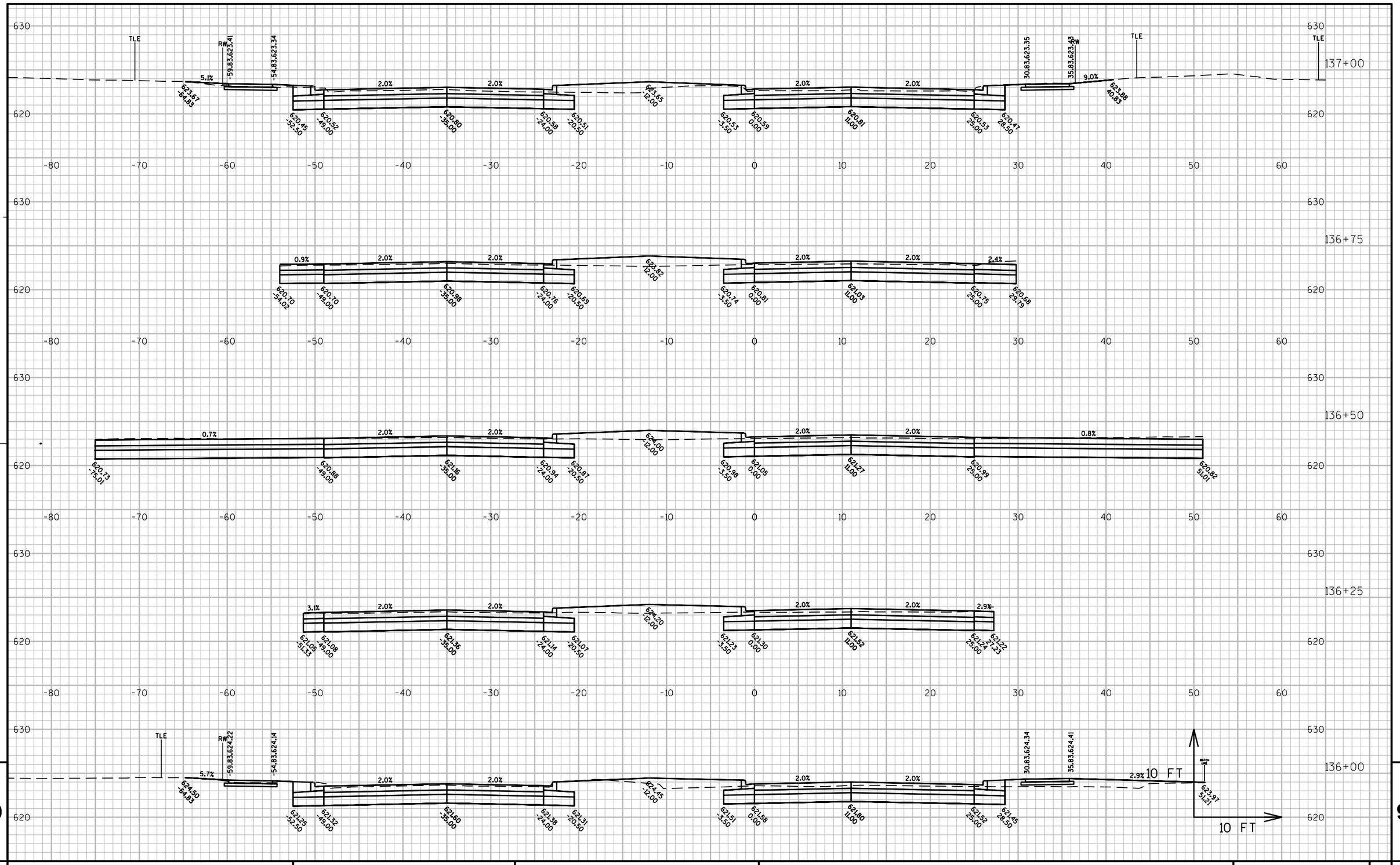
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 921	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_12900-13900.DWG PLOT DATE : 8/17/2017 8:20 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : (8) US 10 PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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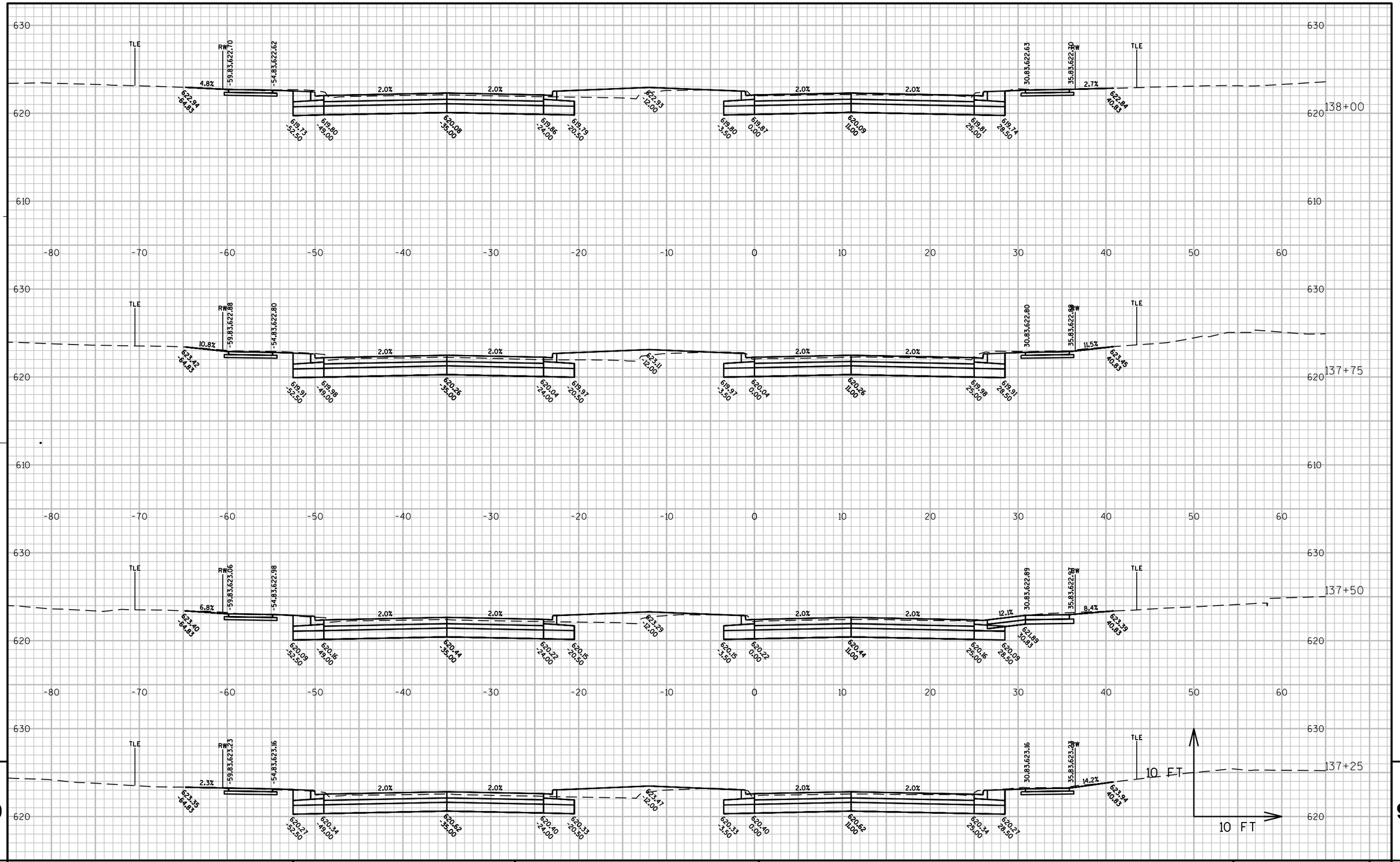
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_12900-13900.DWG PLOT DATE : 8/17/2017 8:20 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : (9) US 10 PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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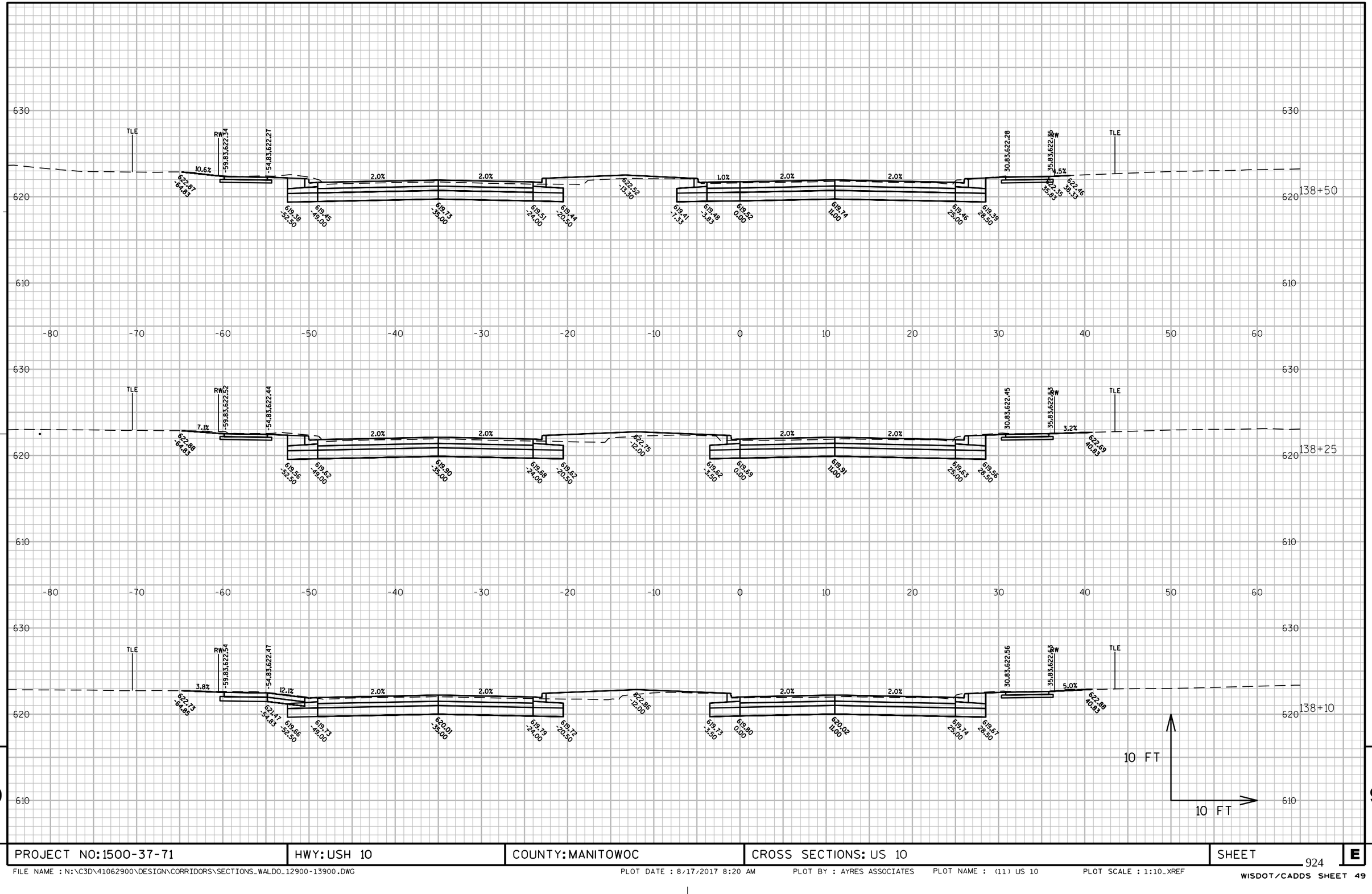
9

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_12900-13900.DWG PLOT DATE : 8/17/2017 8:20 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : (10) US 10 PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET	E

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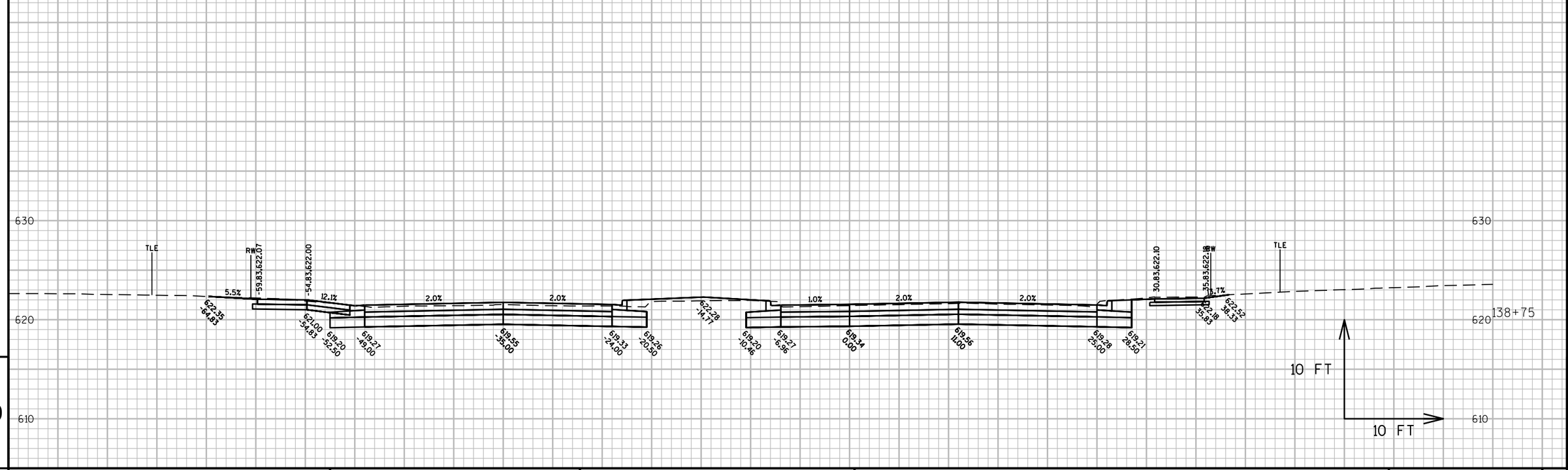
924

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_12900-13900.DWG PLOT DATE : 8/17/2017 8:20 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : (11) US 10 PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 925	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_12900-13900.DWG PLOT DATE : 8/17/2017 8:20 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : (12) US 10 PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49

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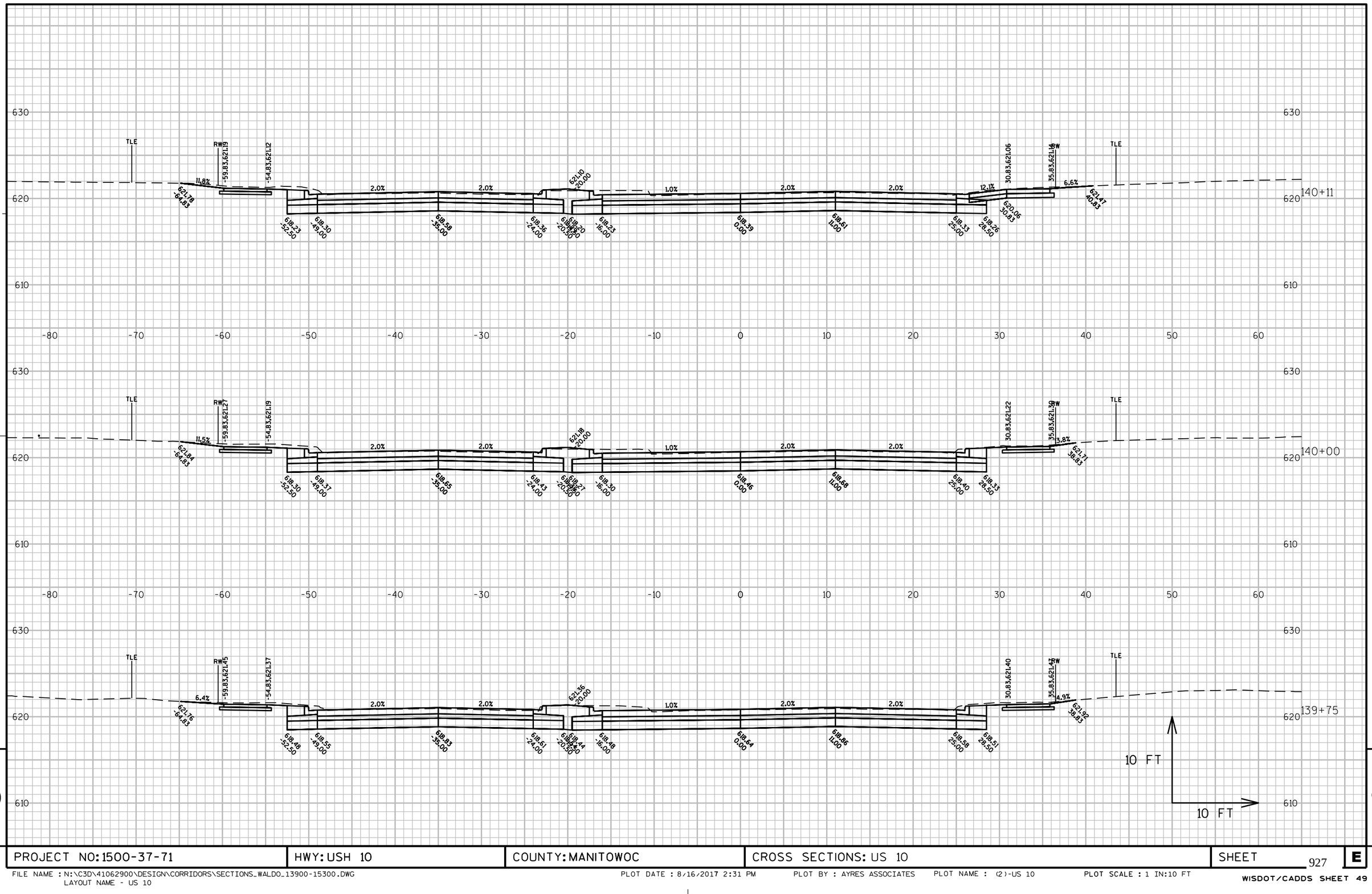
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 926	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - US 10

PLOT DATE : 8/16/2017 2:31 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1)-US 10 PLOT SCALE : 1 IN:10 FT

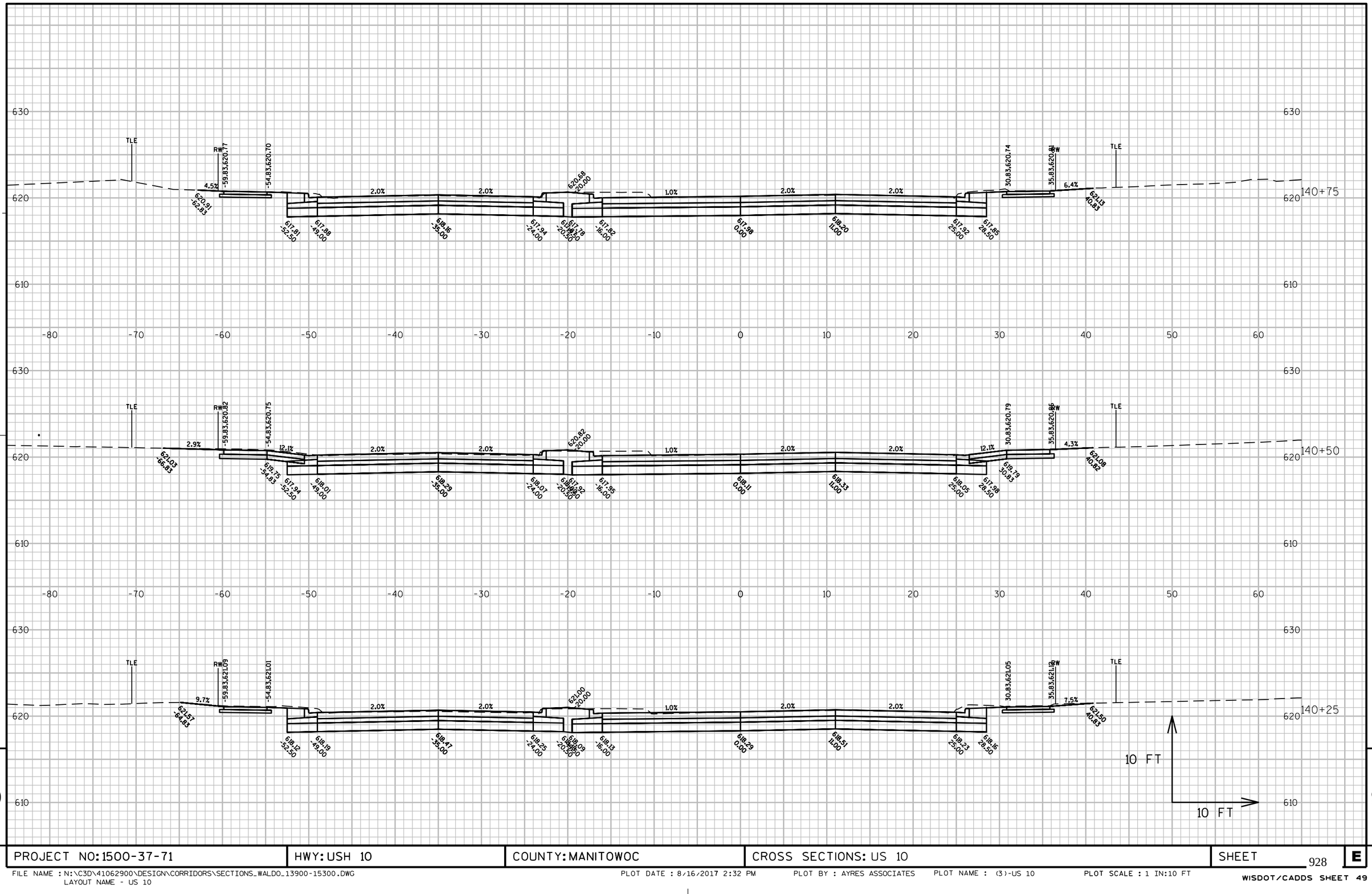


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 927	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - US 10

PLOT DATE : 8/16/2017 2:31 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (2)-US 10 PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

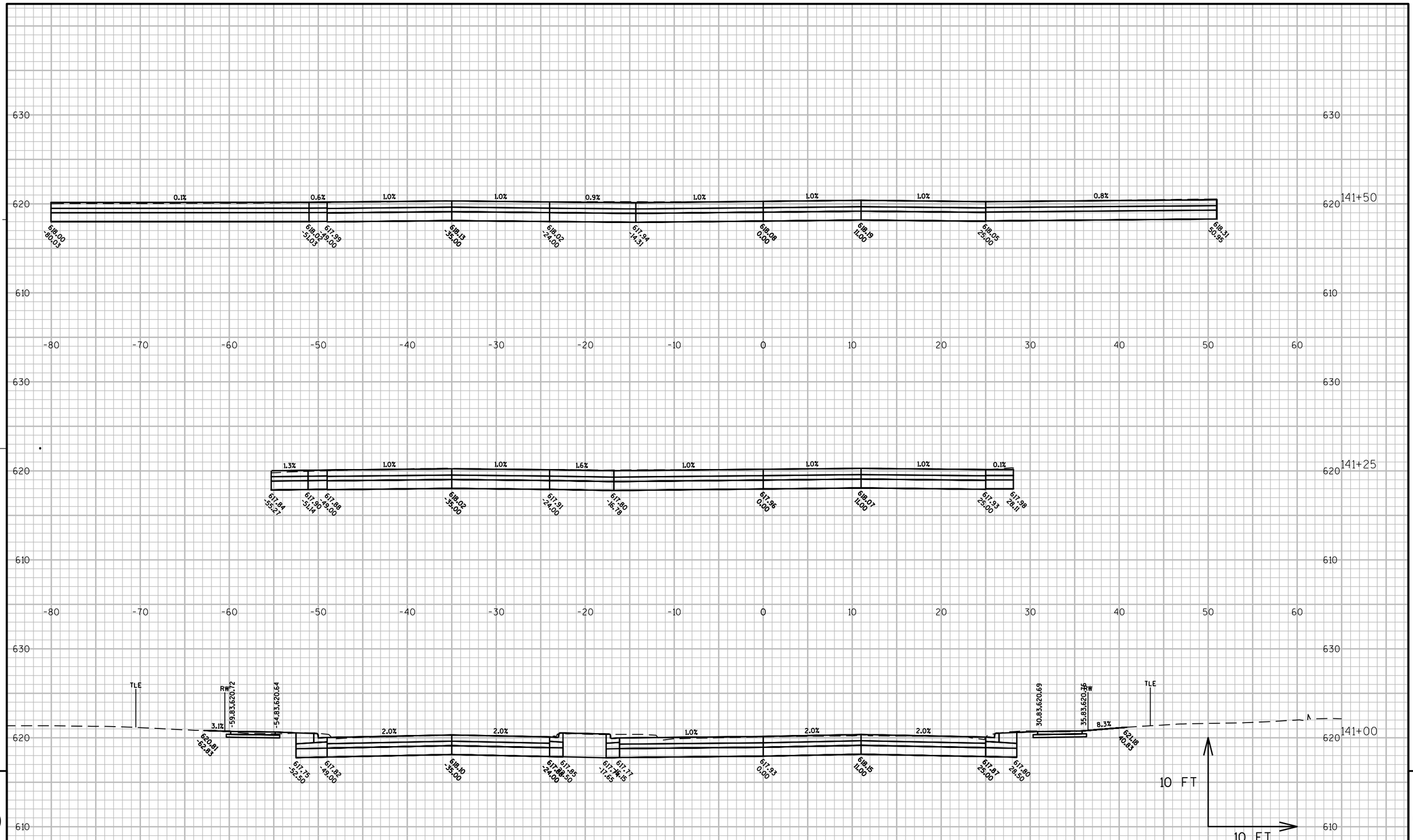


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 928	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - US 10

PLOT DATE : 8/16/2017 2:32 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (3)-US 10 PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

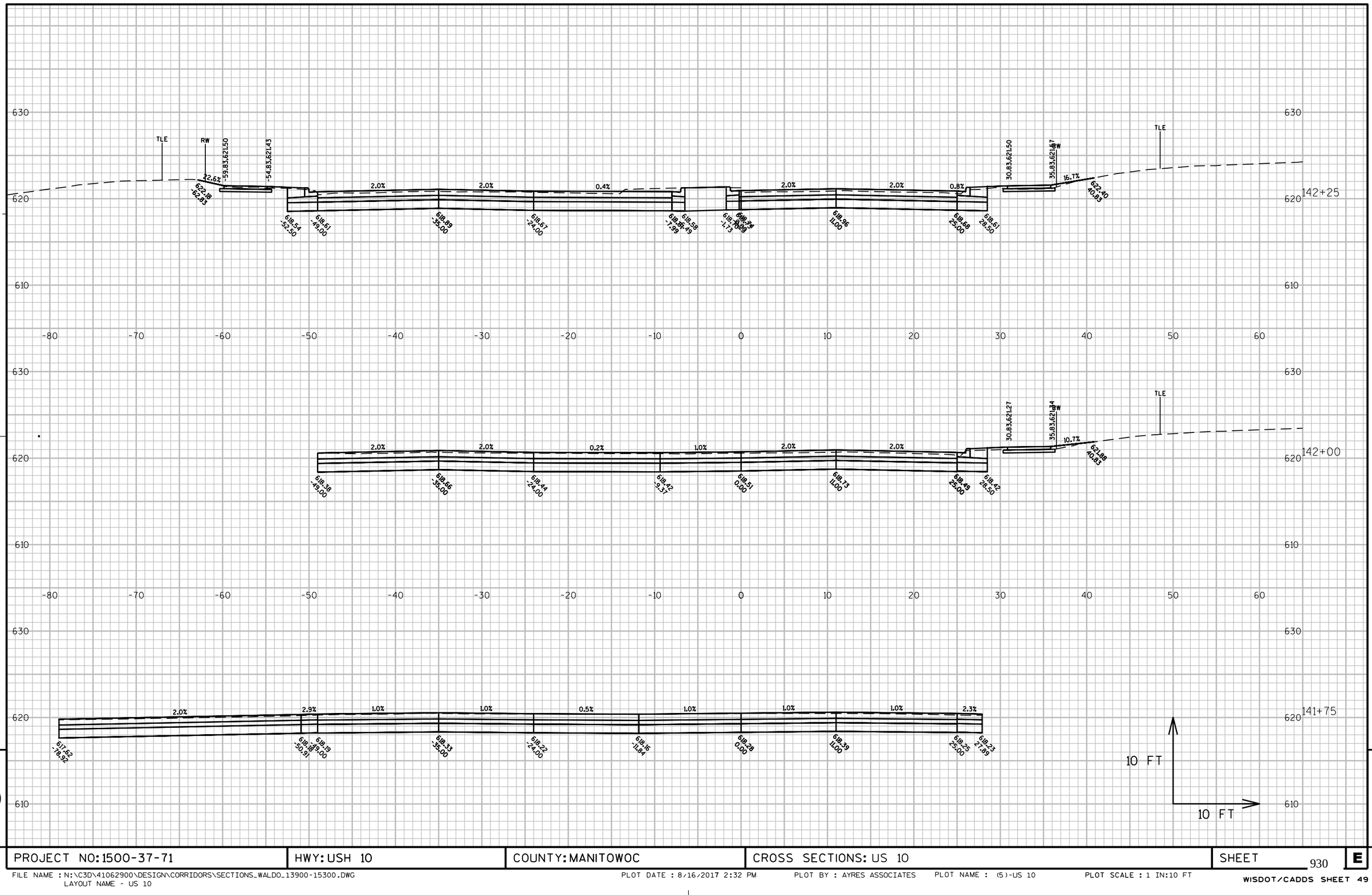


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 929	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - US 10

PLOT DATE : 8/16/2017 2:32 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (4)-US 10 PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 930	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - US 10

PLOT DATE : 8/16/2017 2:32 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (5)-US 10 PLOT SCALE : 1 IN:10 FT

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 931	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - US 10

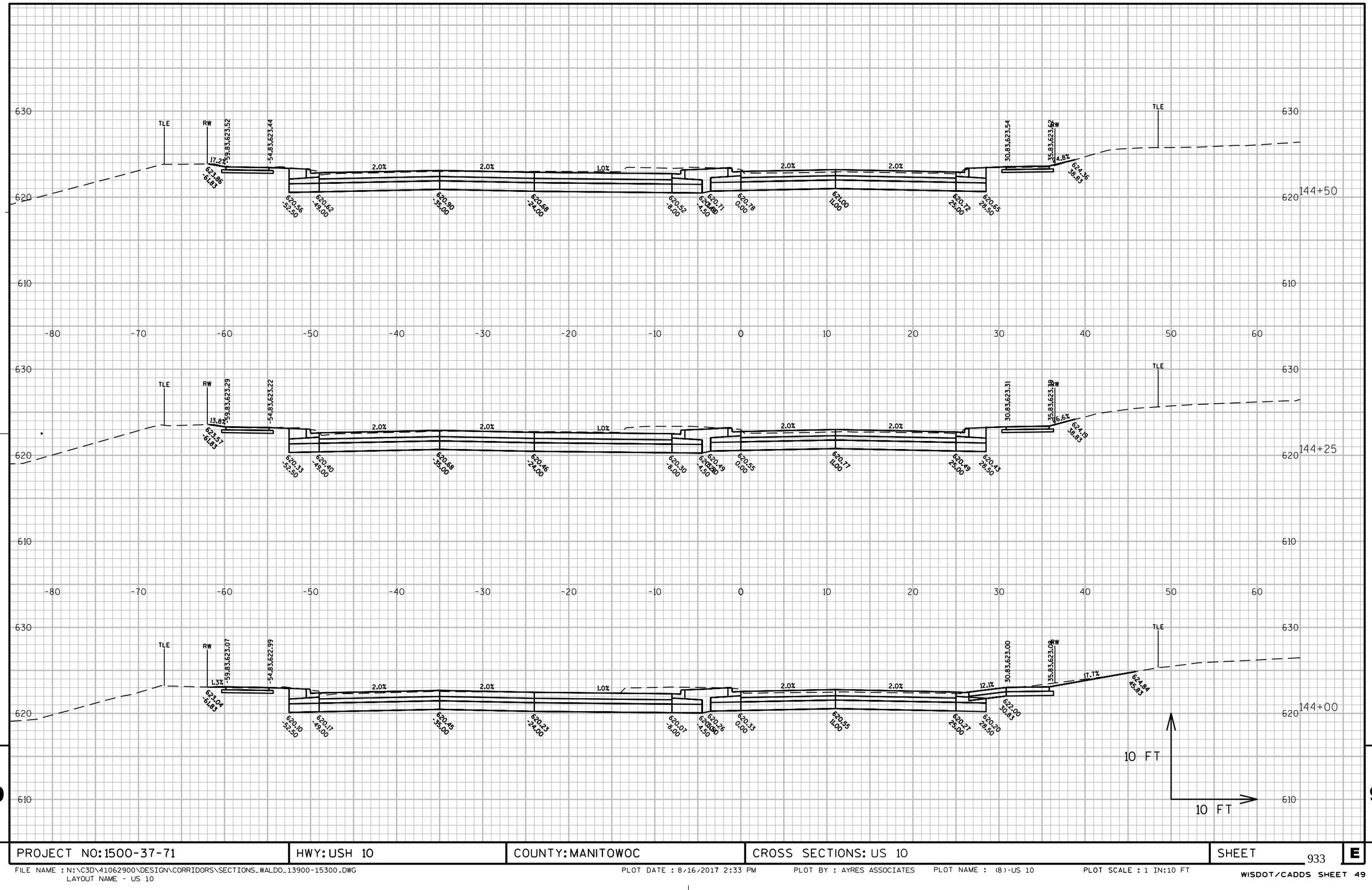
PLOT DATE : 8/16/2017 2:32 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (6)-US 10 PLOT SCALE : 1 IN:10 FT

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 932	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - US 10

PLOT DATE : 8/16/2017 2:33 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (7)-US 10 PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

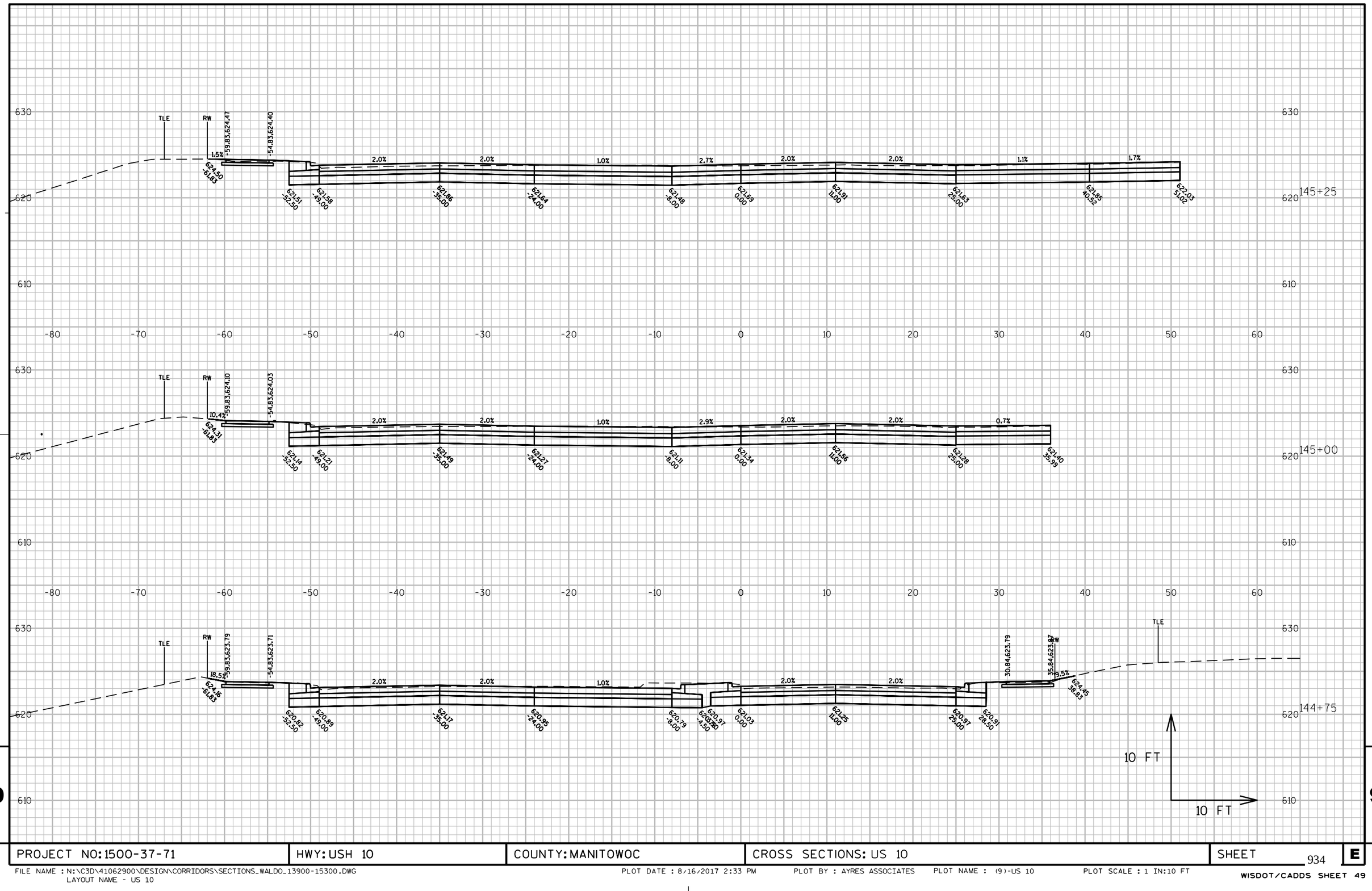


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 933	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - US 10

PLOT DATE : 8/16/2017 2:33 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (8)-US 10 PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

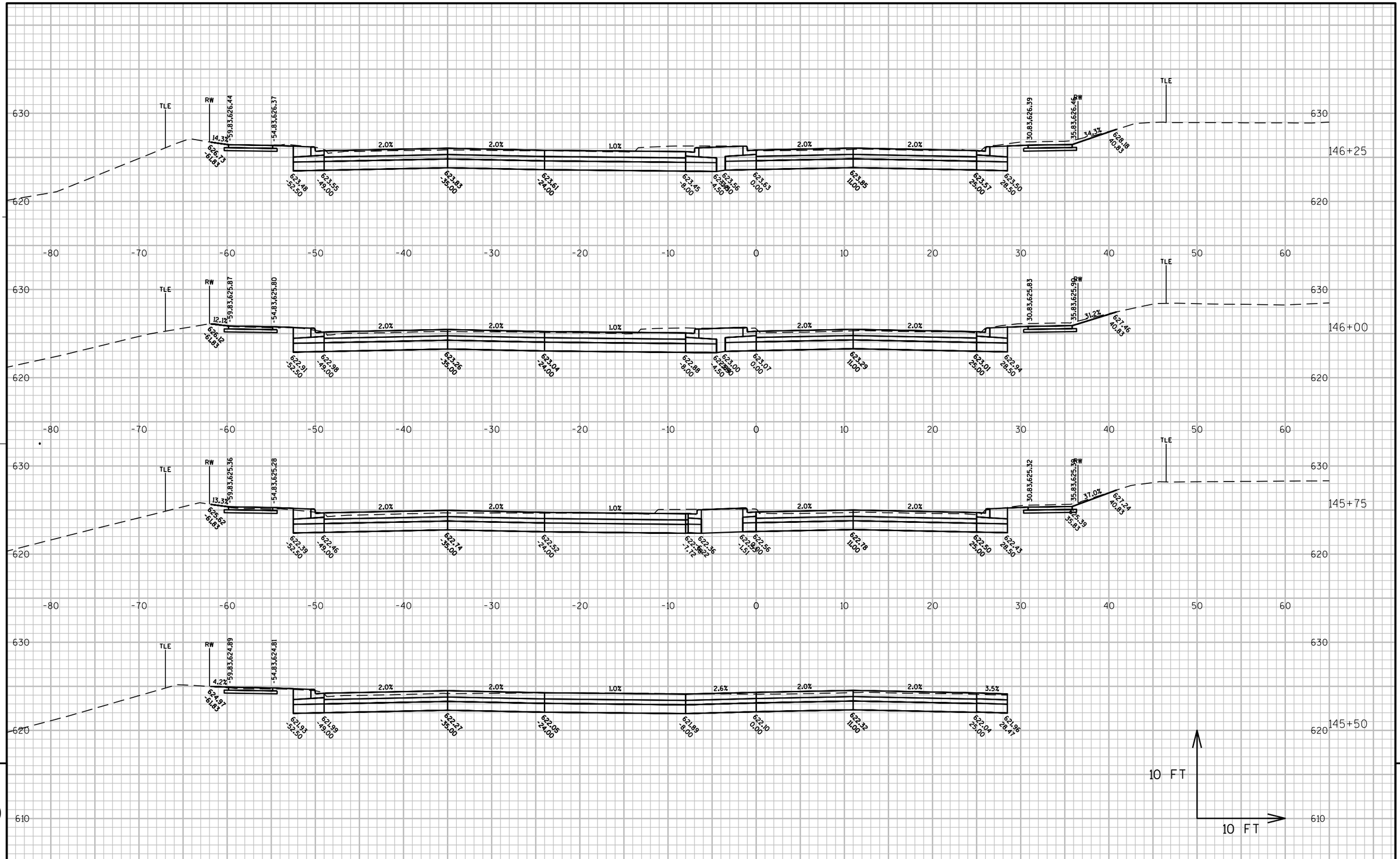


PROJECT NO:1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 934	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - US 10

PLOT DATE : 8/16/2017 2:33 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (9)-US 10 PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 935	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - US 10

PLOT DATE : 8/16/2017 2:33 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (10)-US 10 PLOT SCALE : 1 IN:10 FT

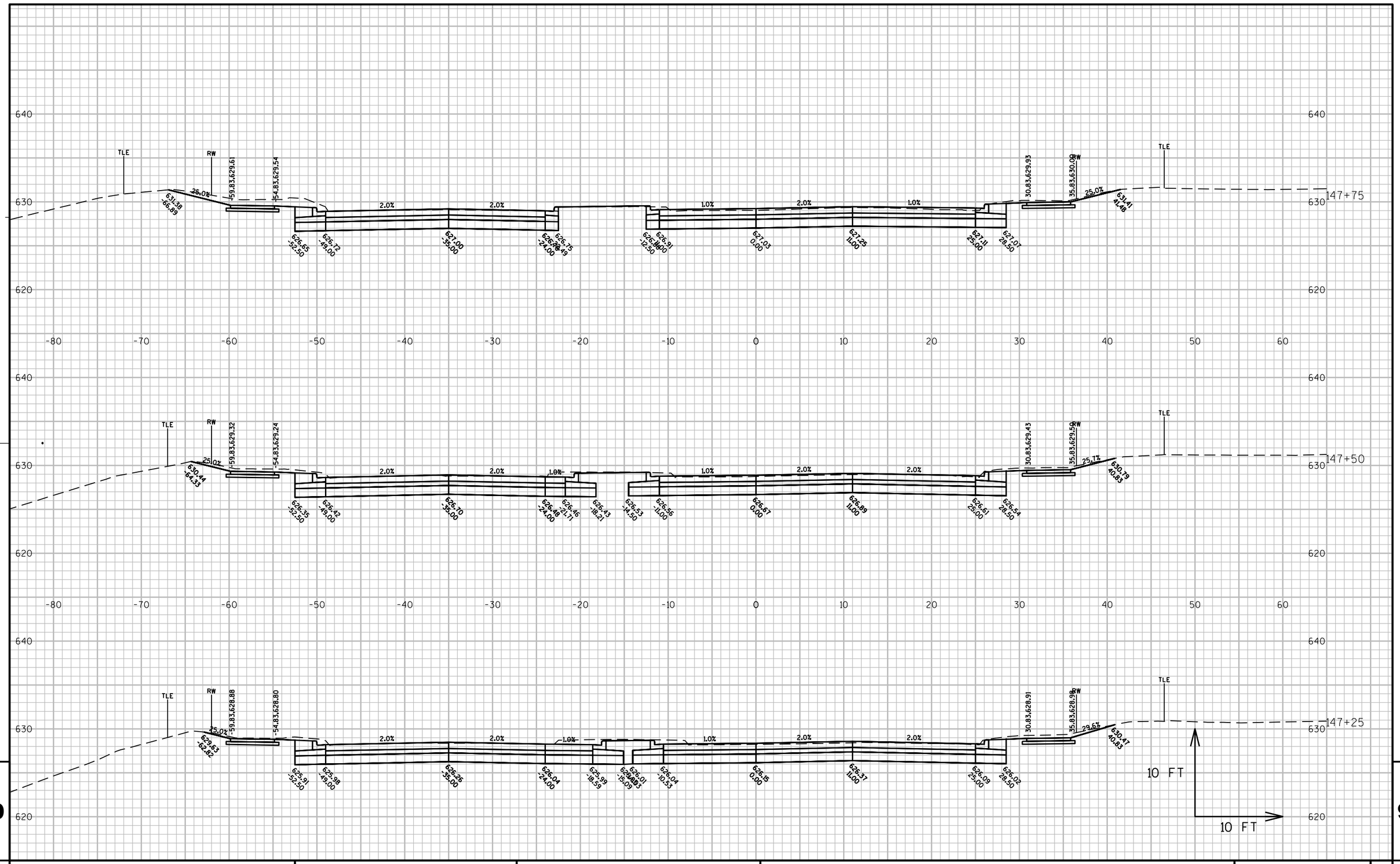
WISDOT/CADDS SHEET 49

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 936	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - US 10

PLOT DATE : 8/16/2017 2:34 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (11)-US 10 PLOT SCALE : 1 IN:10 FT

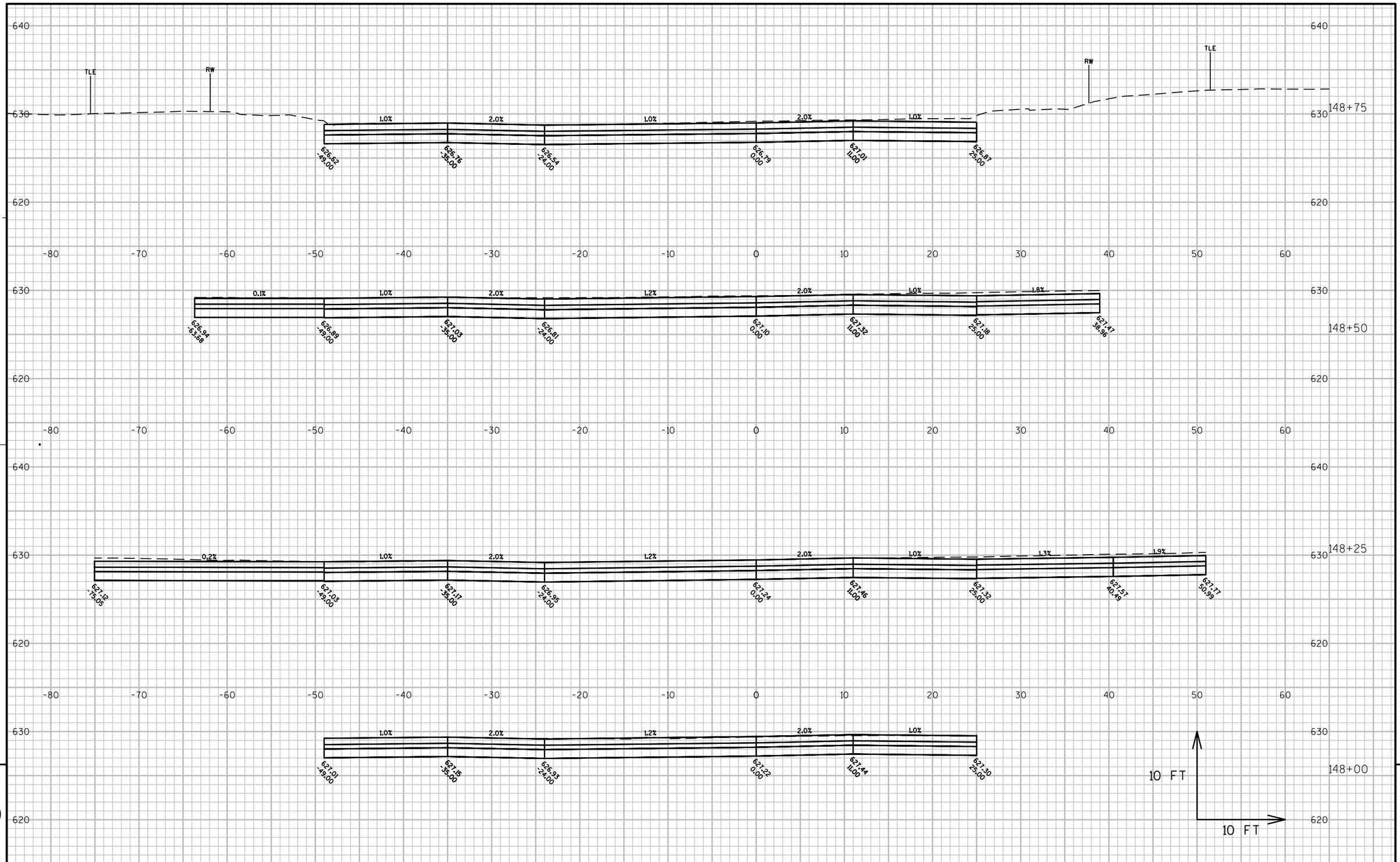
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 937	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - US 10

PLOT DATE : 8/16/2017 2:34 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (12)-US 10 PLOT SCALE : 1 IN:10 FT



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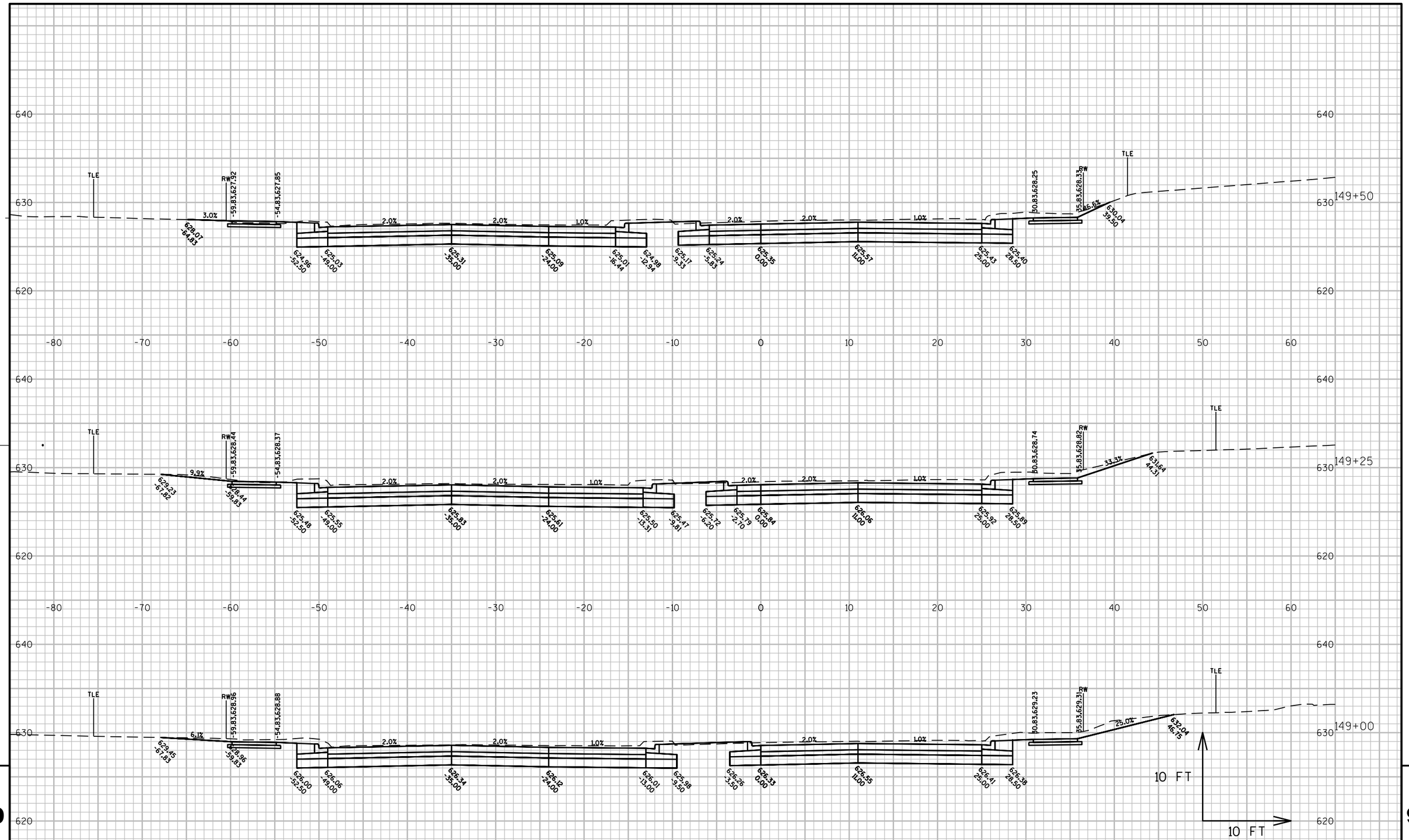
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 938	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - US 10

PLOT DATE : 8/16/2017 2:34 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (13)-US 10 PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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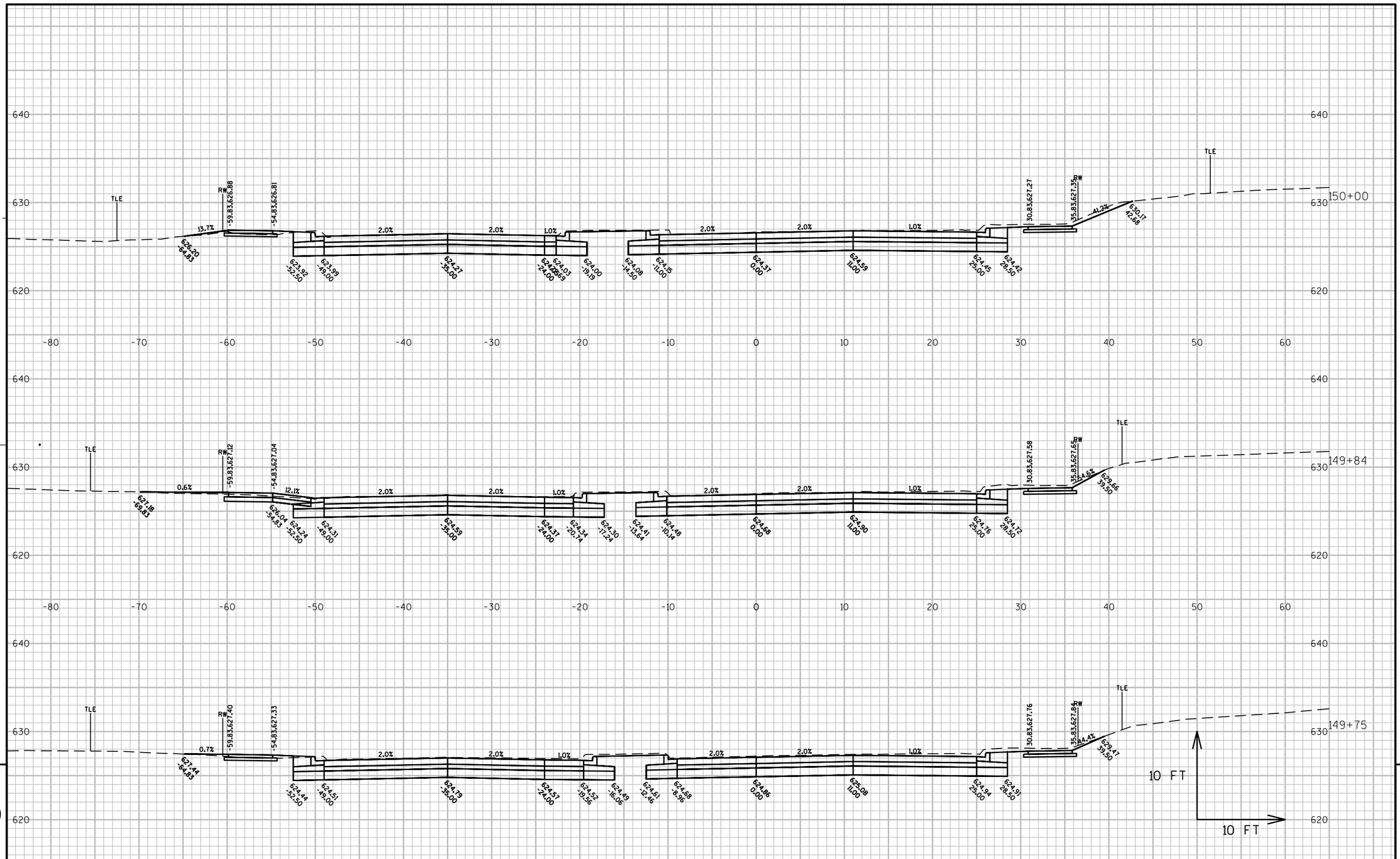
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 939	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - US 10

PLOT DATE : 8/16/2017 2:34 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (14)-US 10 PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

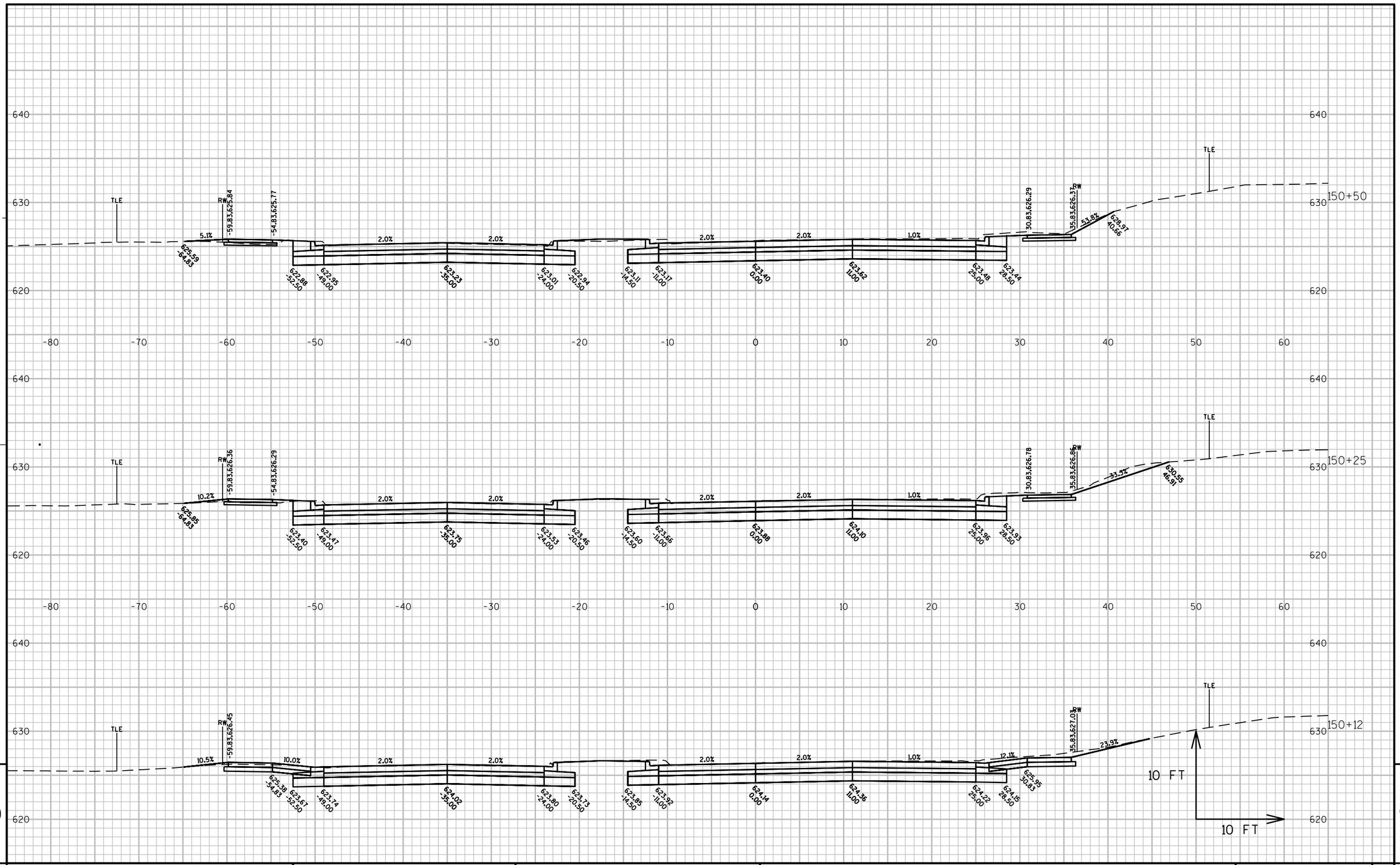


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 940	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - US 10

PLOT DATE : 8/16/2017 2:35 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (15)-US 10 PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

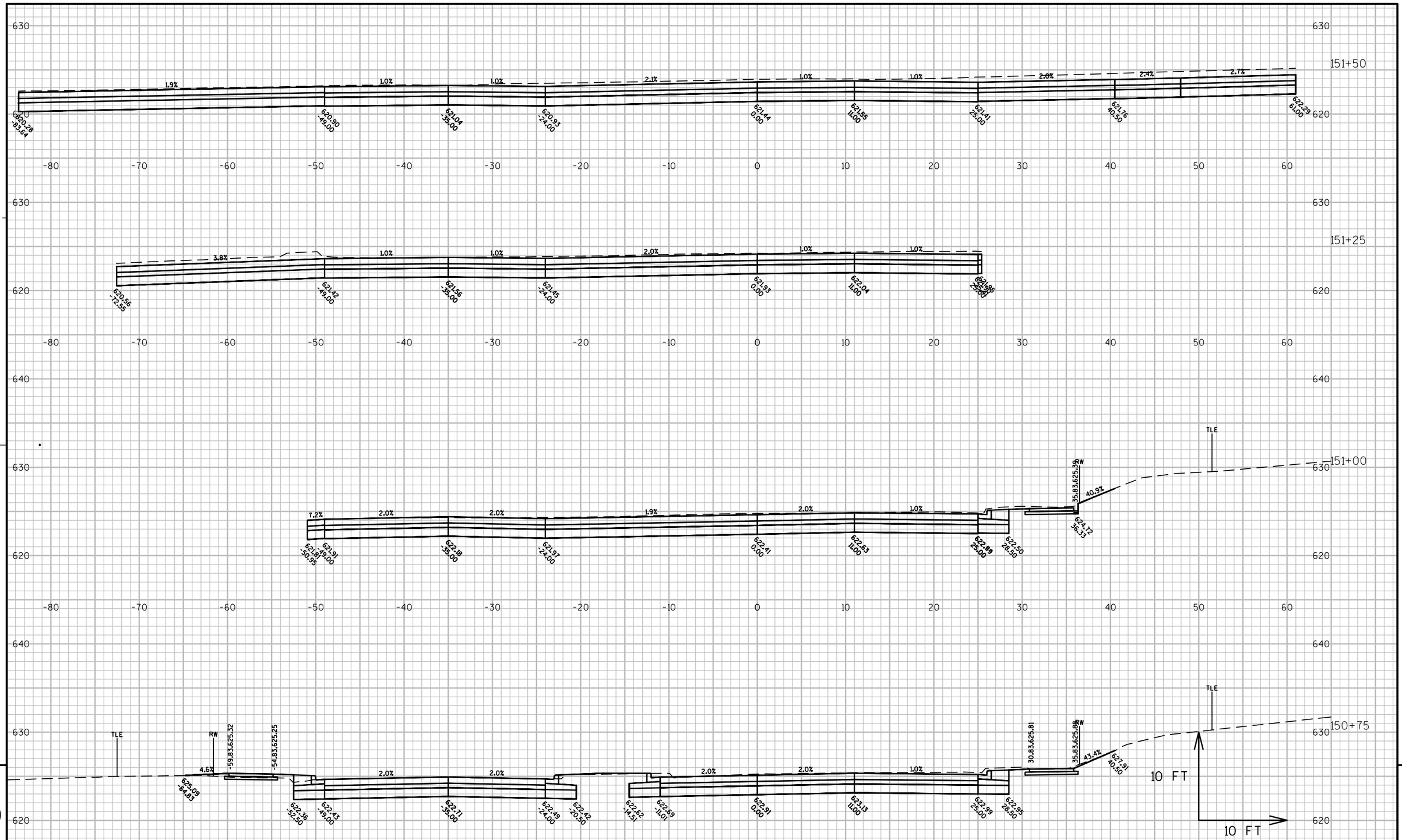


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 941	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - US 10

PLOT DATE : 8/16/2017 2:35 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (16)-US 10 PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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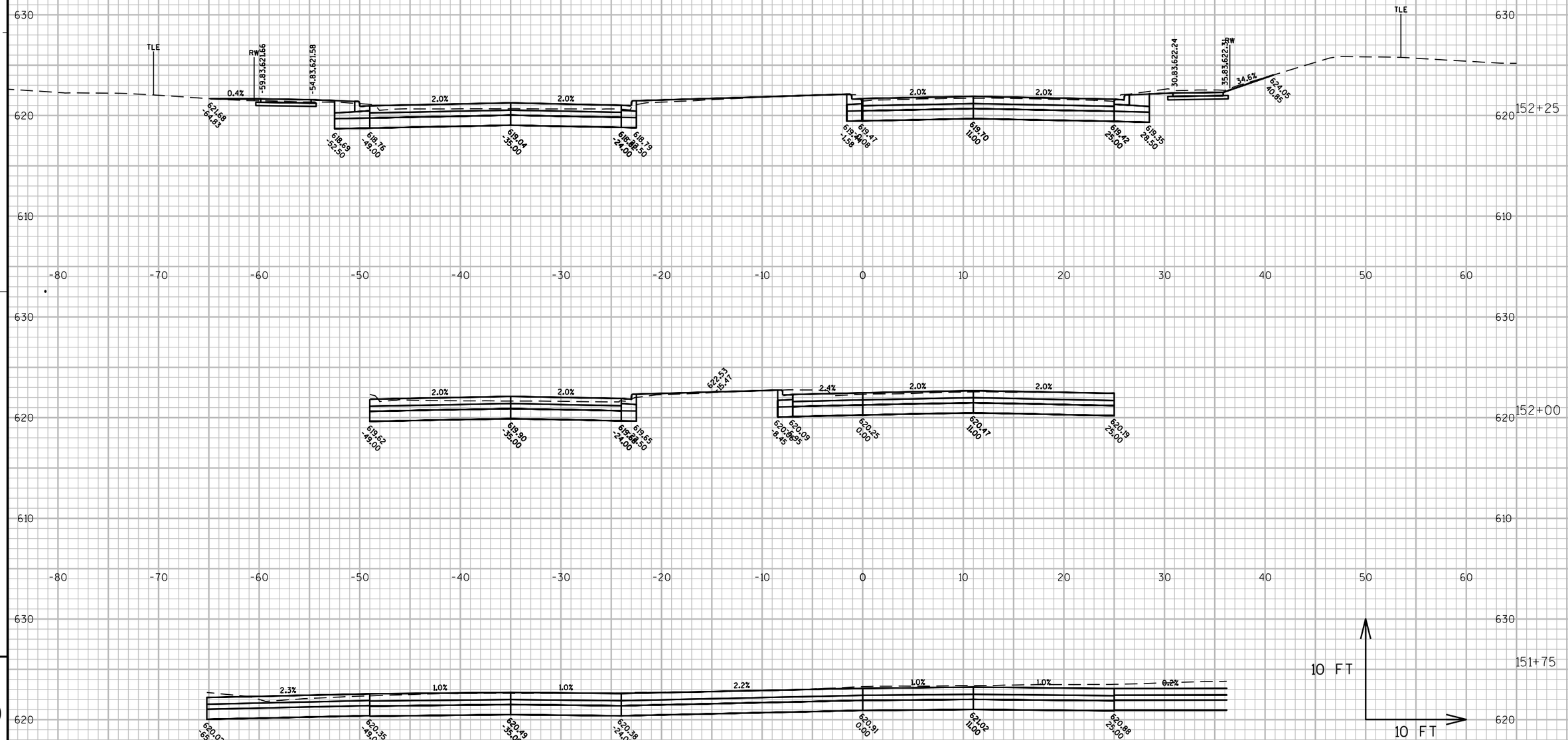
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 942	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - US 10

PLOT DATE : 8/16/2017 2:35 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (17)-US 10 PLOT SCALE : 1 IN:10 FT

END PROJECT 1500-37-71
STA. 152+25



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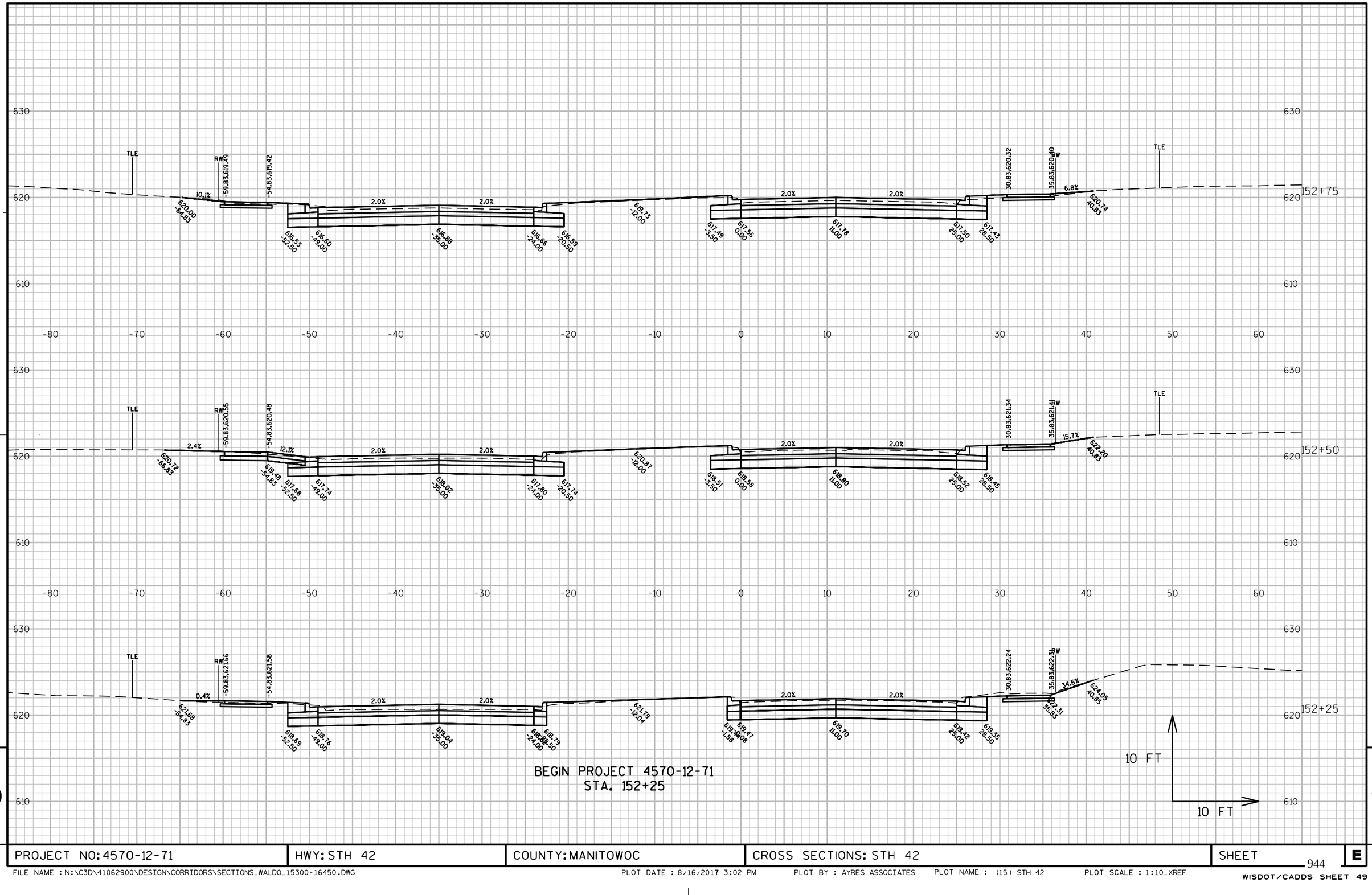
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: US 10	SHEET 943	E

9

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - US 10

PLOT DATE : 8/16/2017 2:35 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (18)-US 10 PLOT SCALE : 1 IN:10 FT

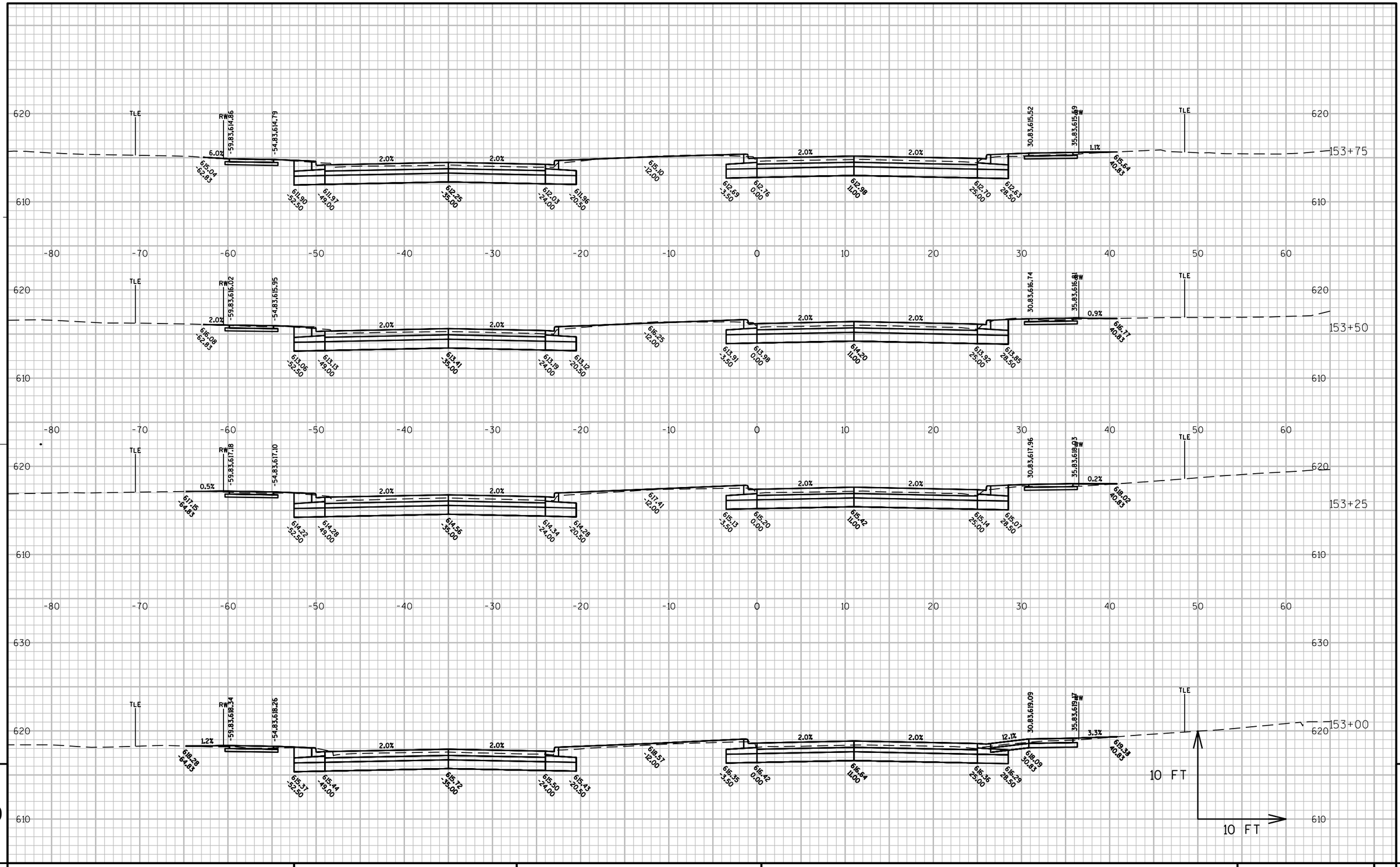
WISDOT/CADDS SHEET 49



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 944

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_15300-16450.DWG PLOT DATE : 8/16/2017 3:02 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (15) STH 42 PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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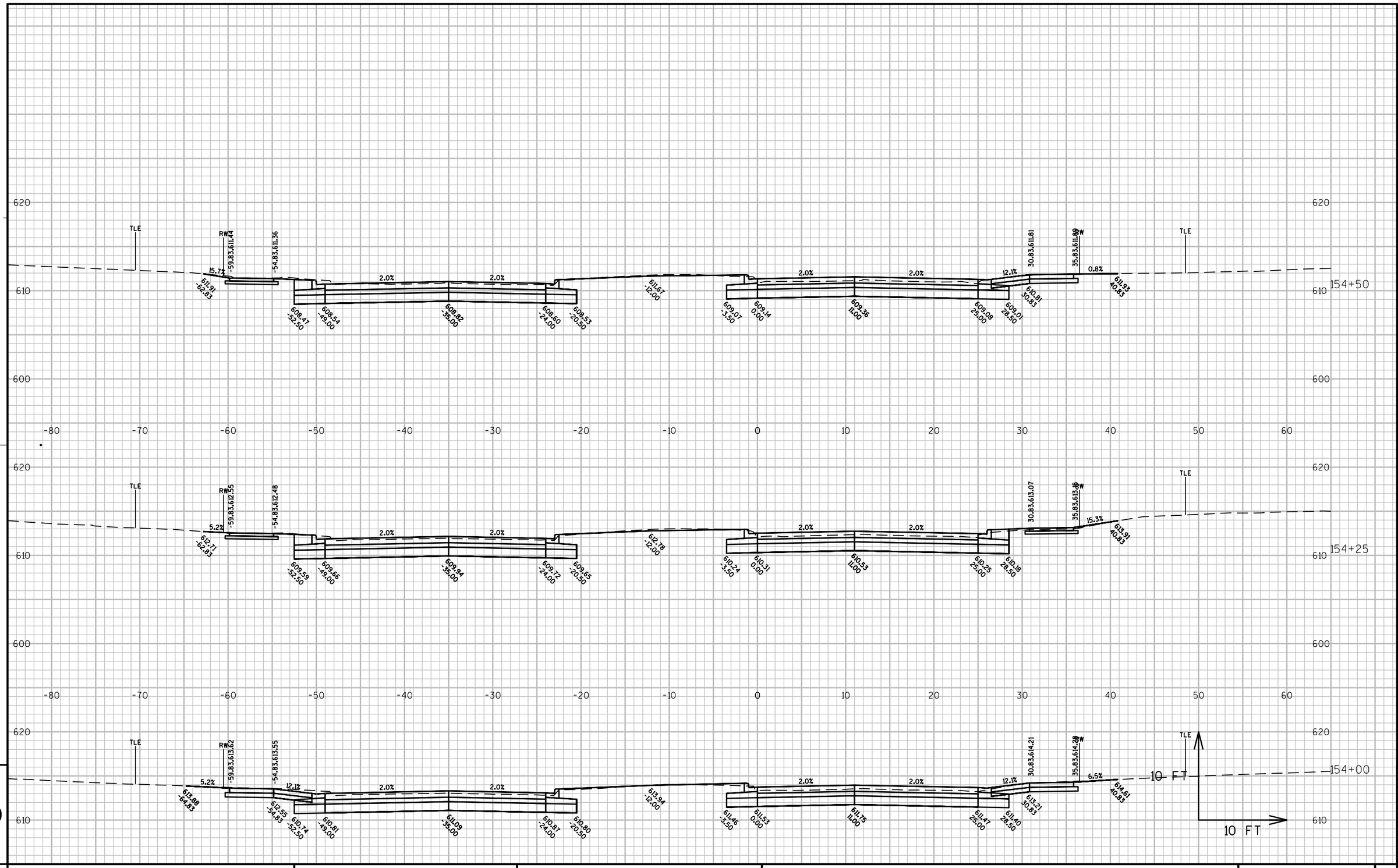
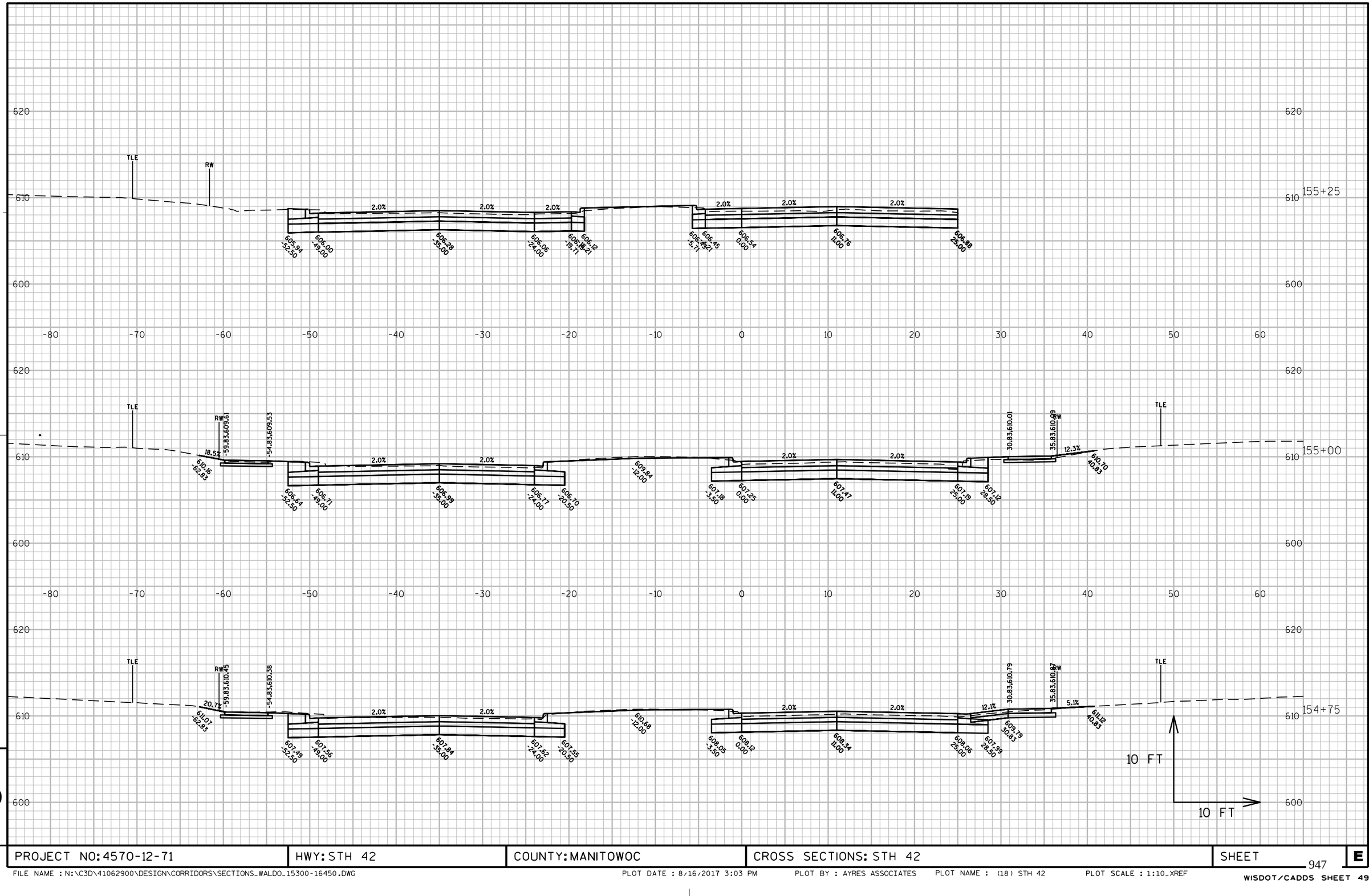
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 945	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_15300-16450.DWG PLOT DATE : 8/16/2017 3:03 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (16) STH 42 PLOT SCALE : 1:10_XREF
WISDOT/CADDS SHEET 49

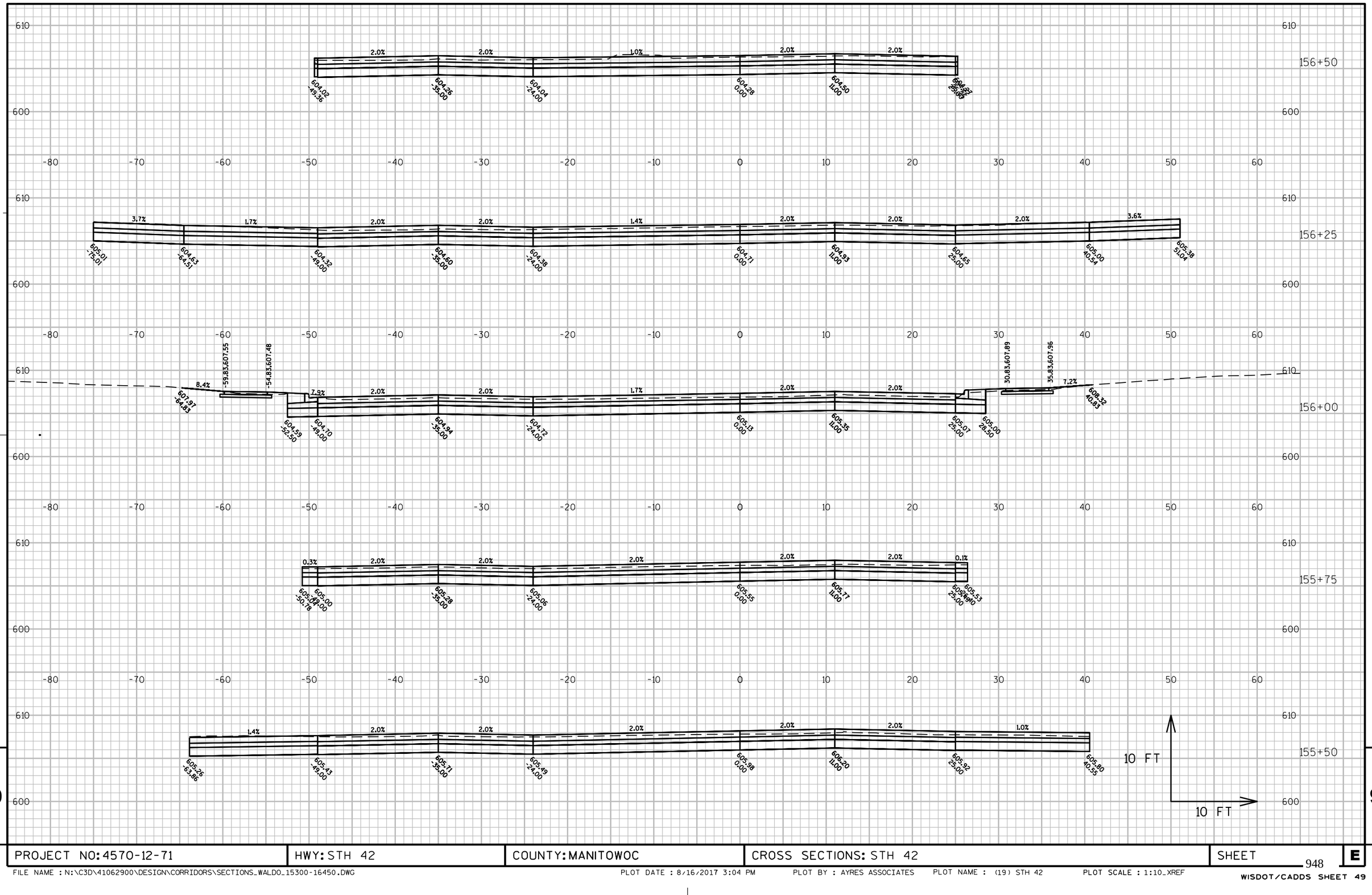


PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET	E

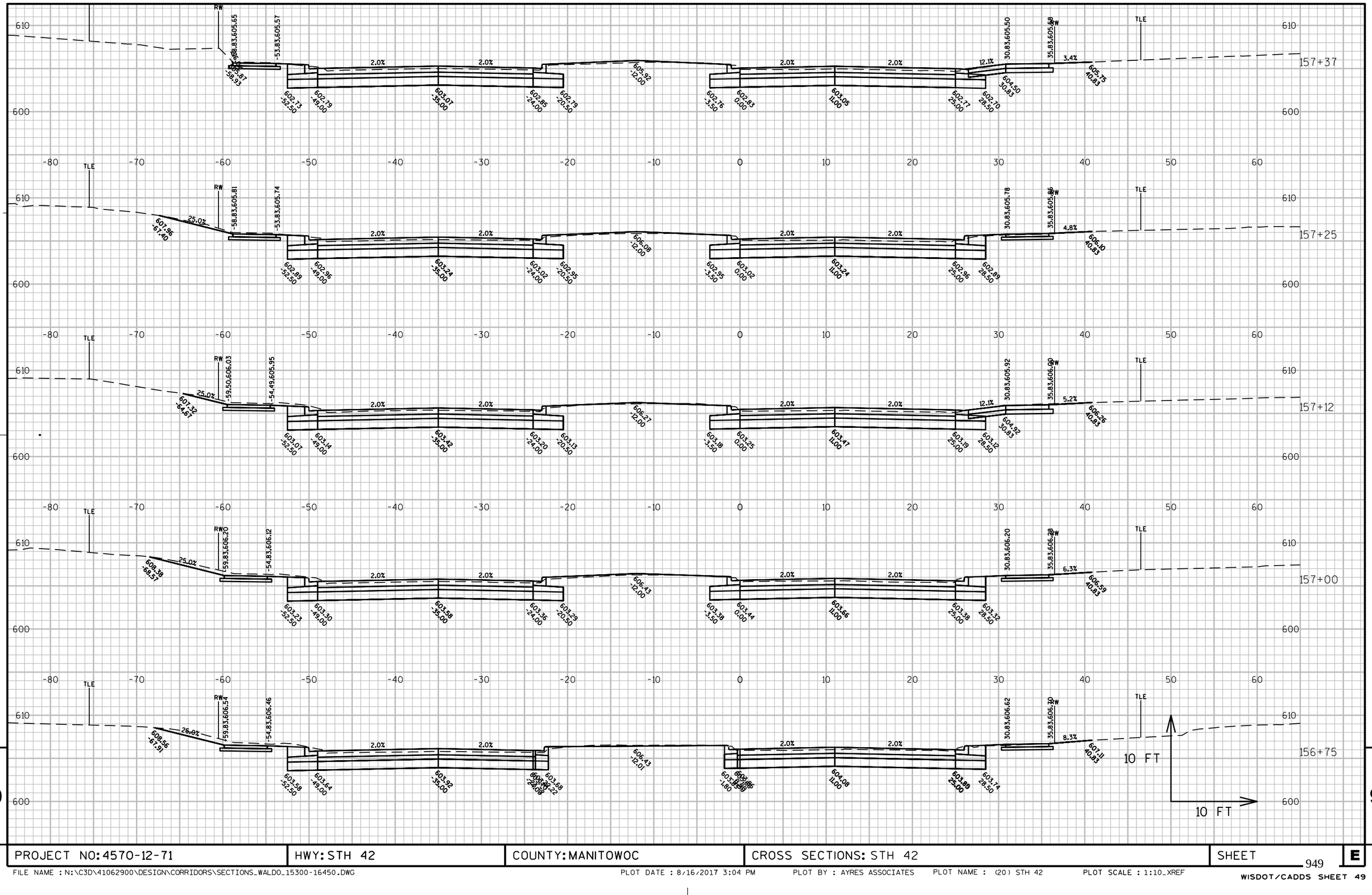
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_15300-16450.DWG PLOT DATE : 8/16/2017 3:03 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (17) STH 42 PLOT SCALE : 1:10_XREF



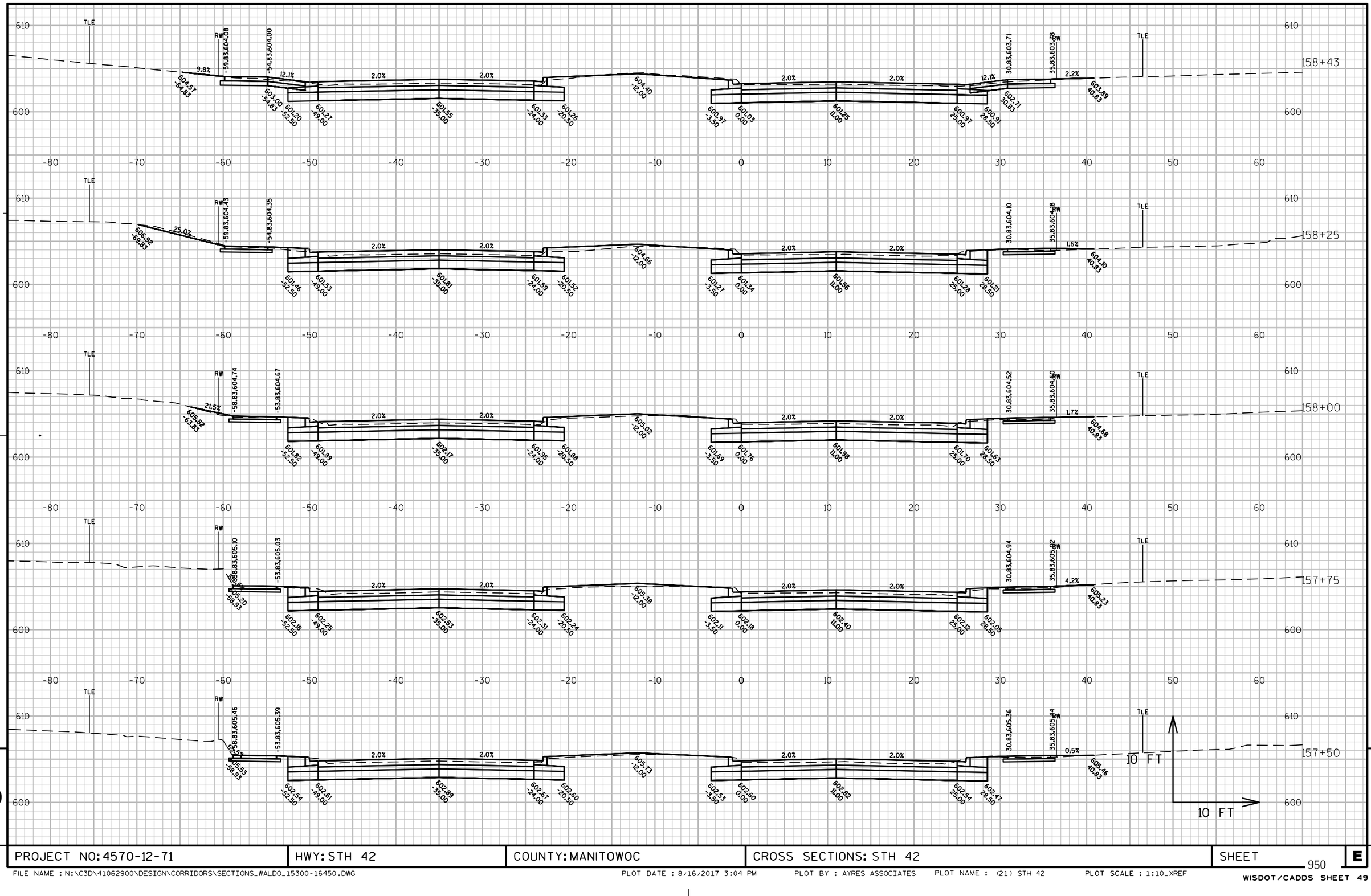
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 947 E



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 948	E

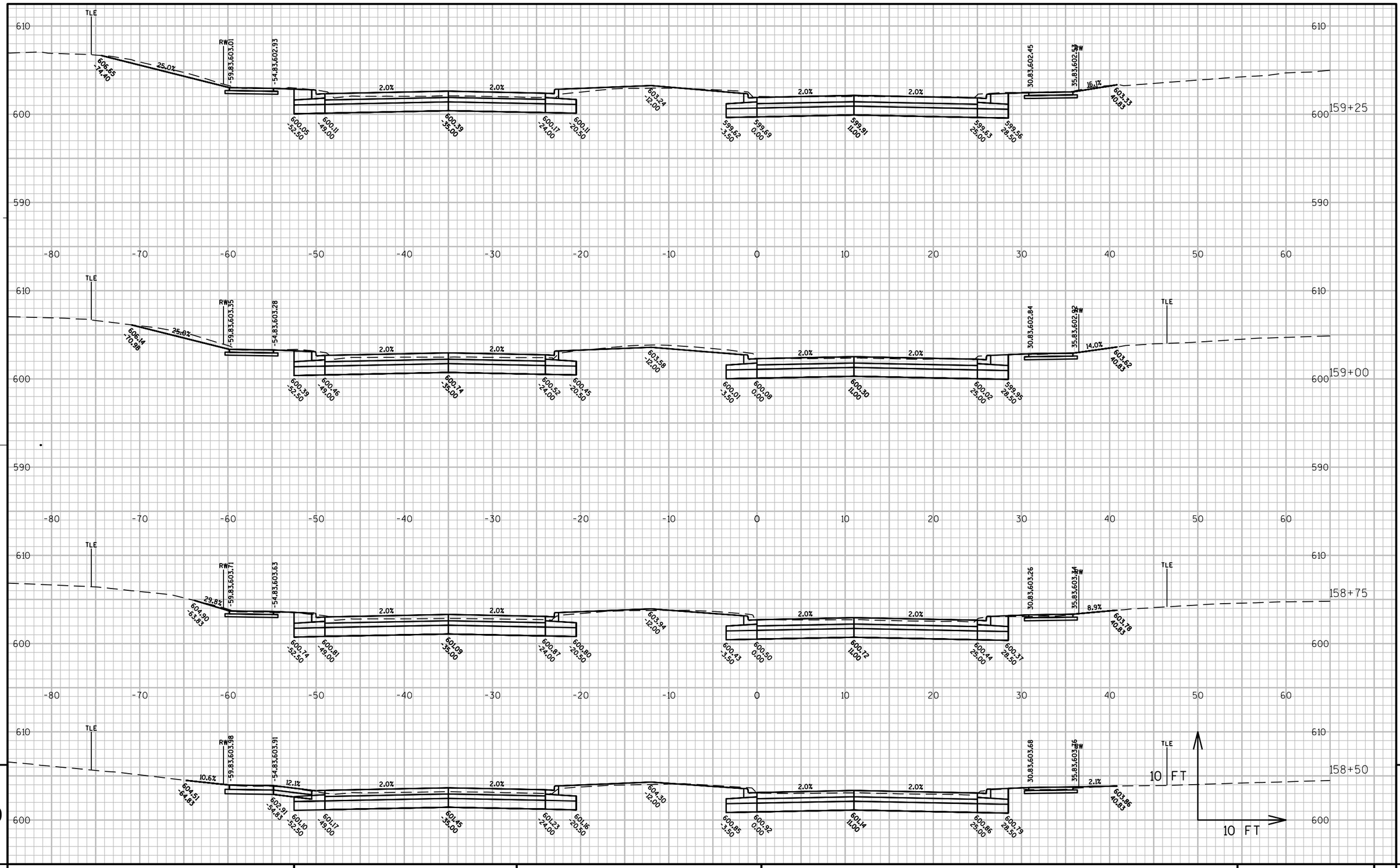


PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET	E



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 950	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_15300-16450.DWG PLOT DATE : 8/16/2017 3:04 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (21) STH 42 PLOT SCALE : 1:10_XREF
WISDOT/CADDS SHEET 49



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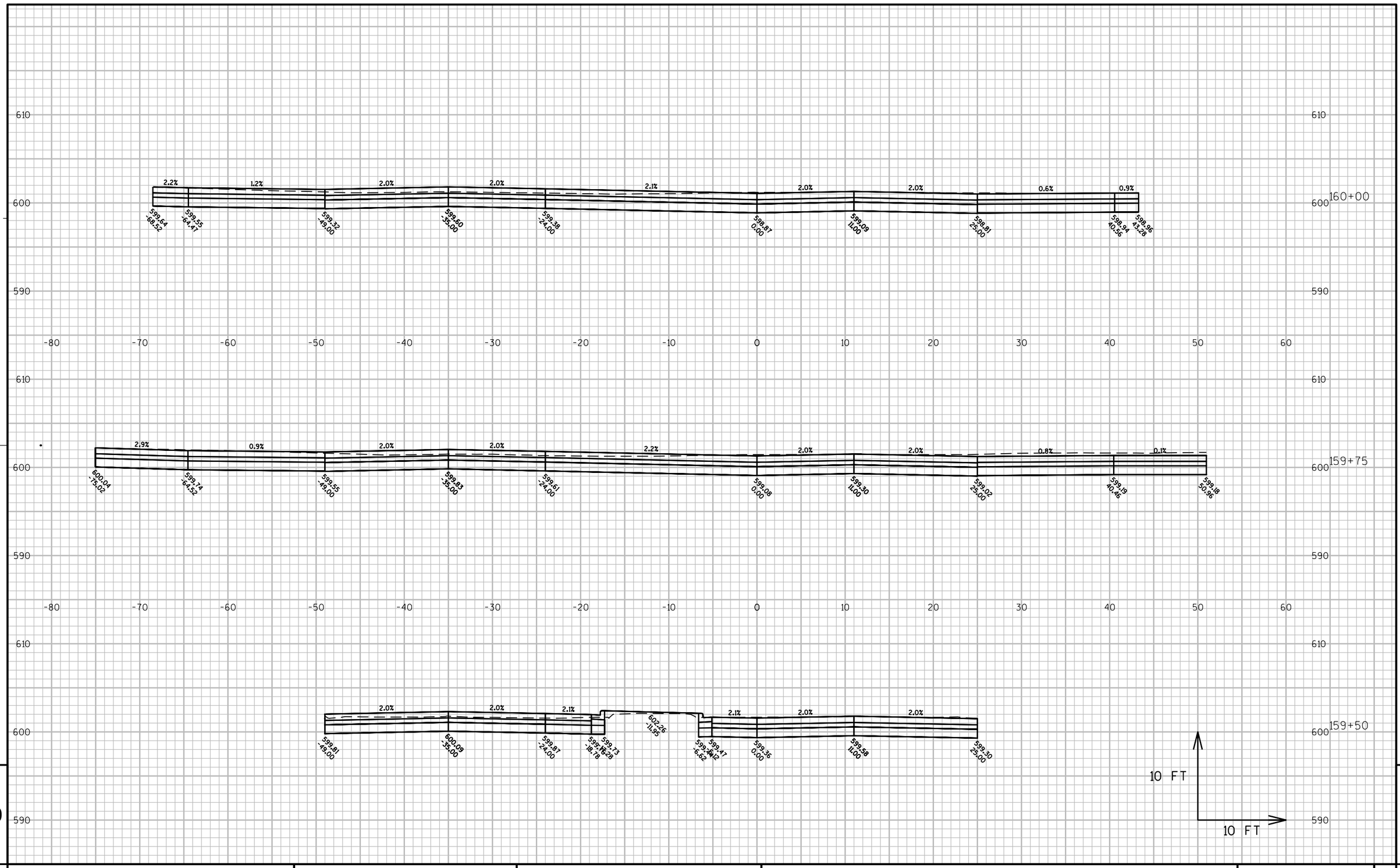
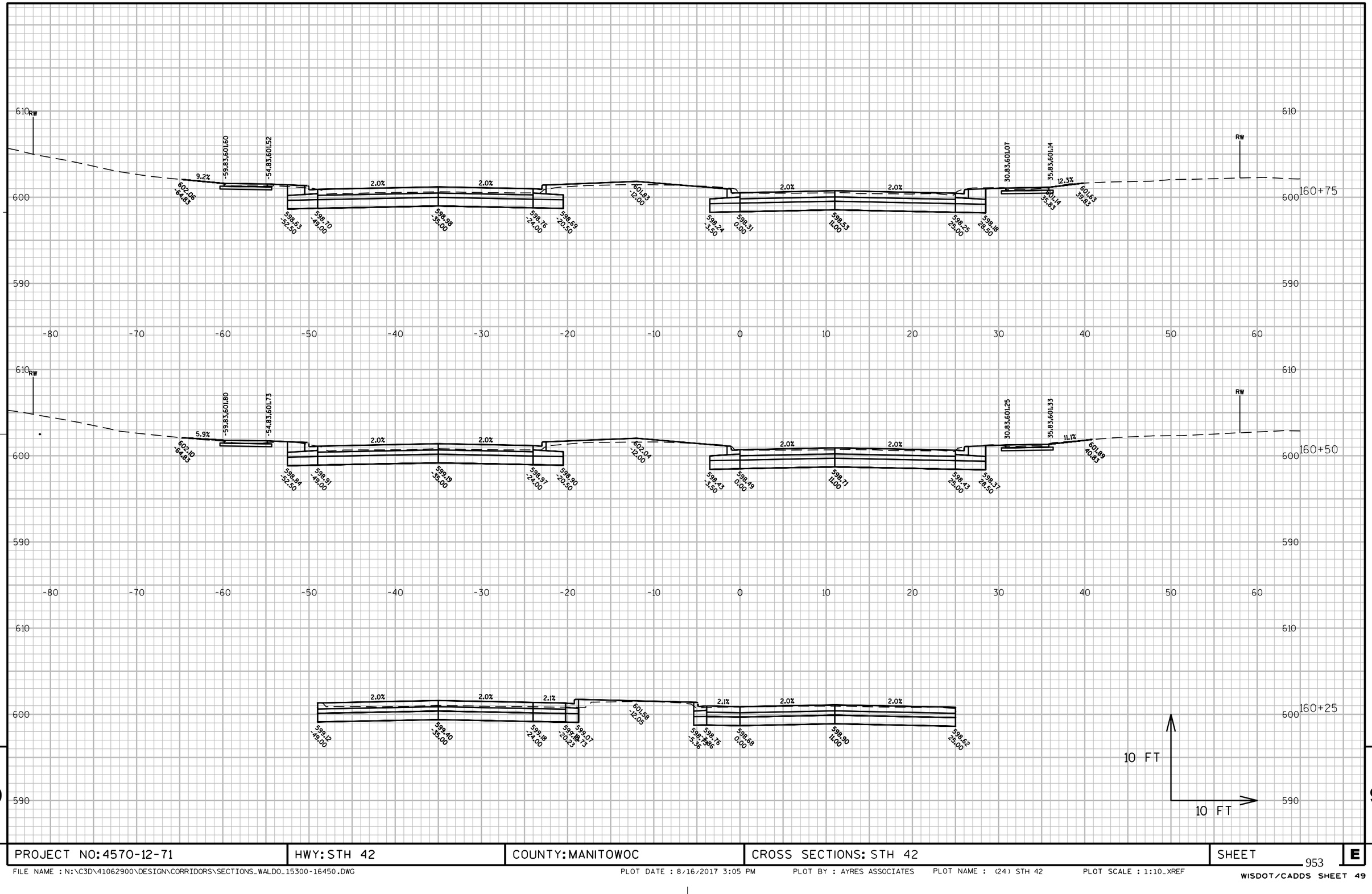
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 951	E



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 952	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_15300-16450.DWG PLOT DATE : 8/16/2017 3:05 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (23) STH 42 PLOT SCALE : 1:10_XREF

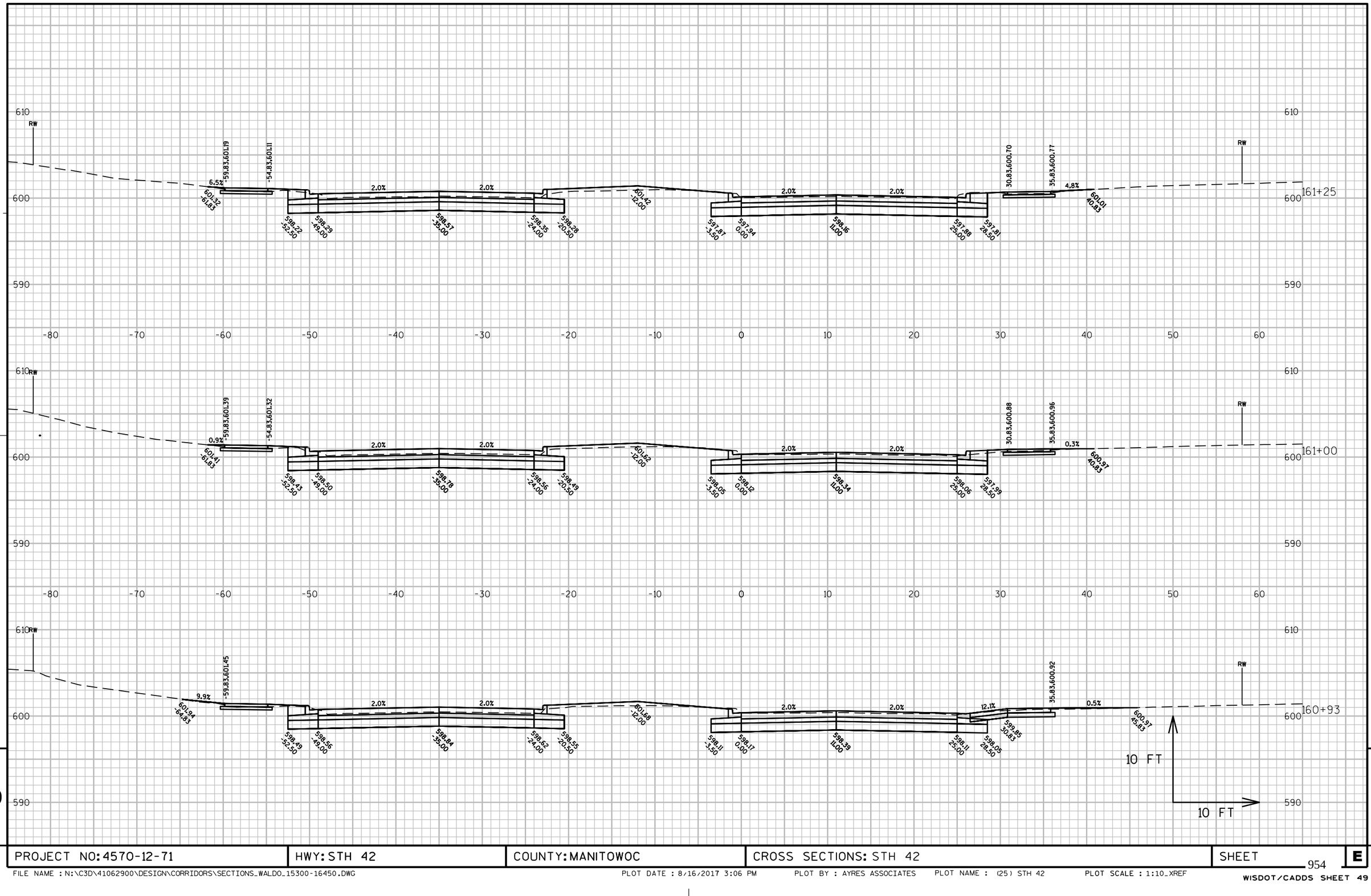
WISDOT/CADDS SHEET 49



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 953	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_15300-16450.DWG PLOT DATE : 8/16/2017 3:05 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (24) STH 42 PLOT SCALE : 1:10_XREF

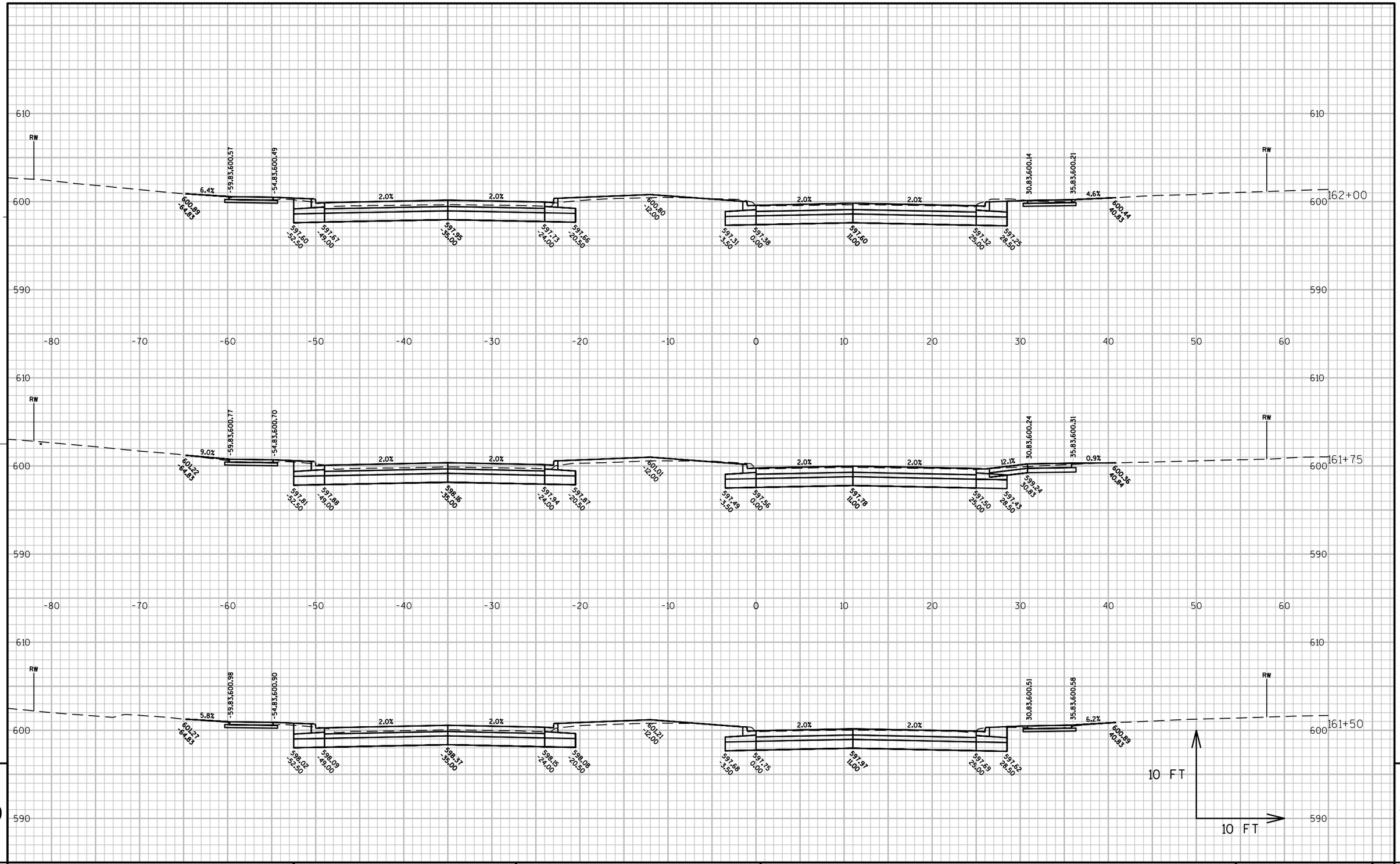
WISDOT/CADDS SHEET 49



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 954	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_15300-16450.DWG PLOT DATE : 8/16/2017 3:06 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (25) STH 42 PLOT SCALE : 1:10_XREF

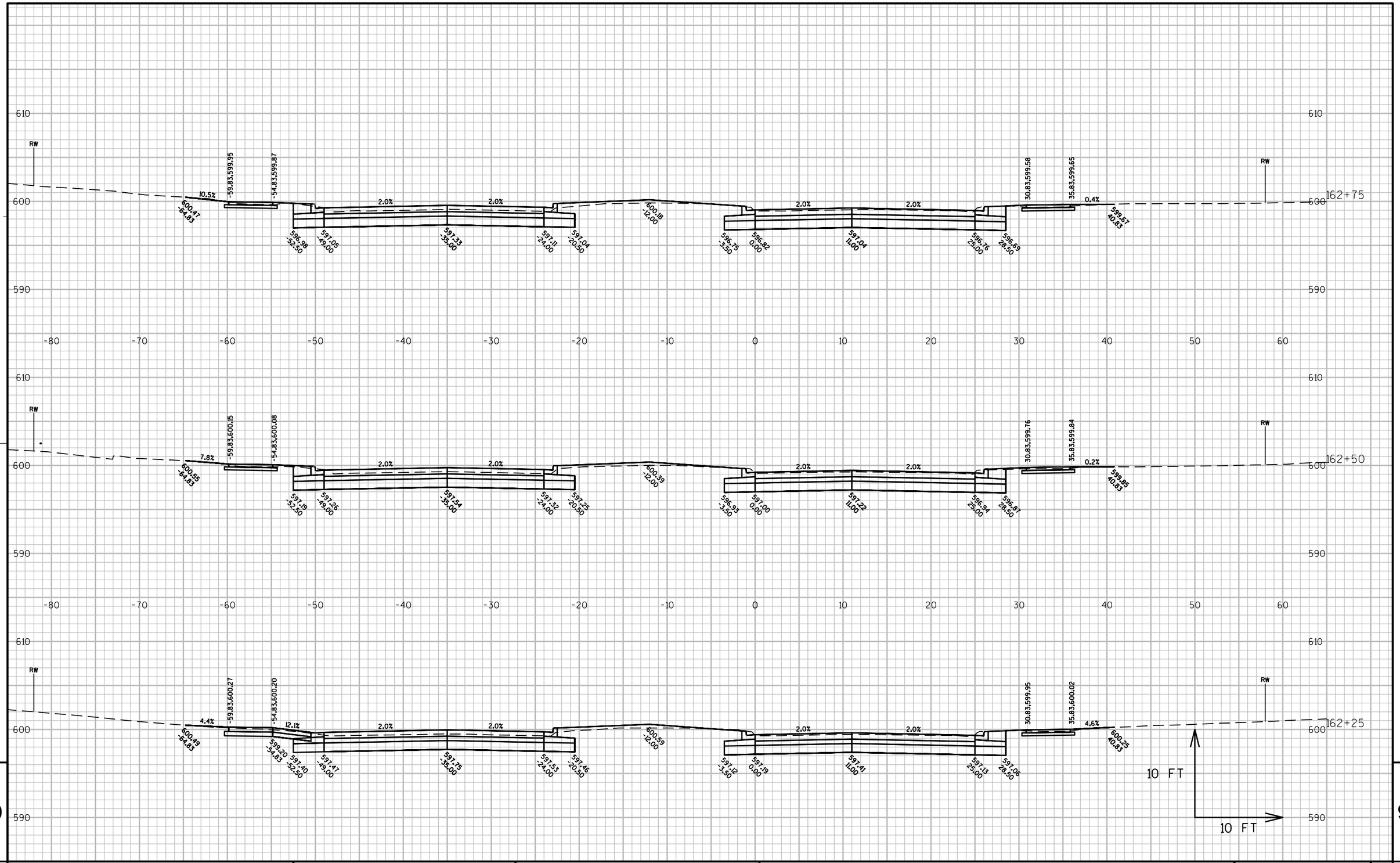
WISDOT/CADDS SHEET 49



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 955	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_15300-16450.DWG PLOT DATE : 8/16/2017 3:06 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (26) STH 42 PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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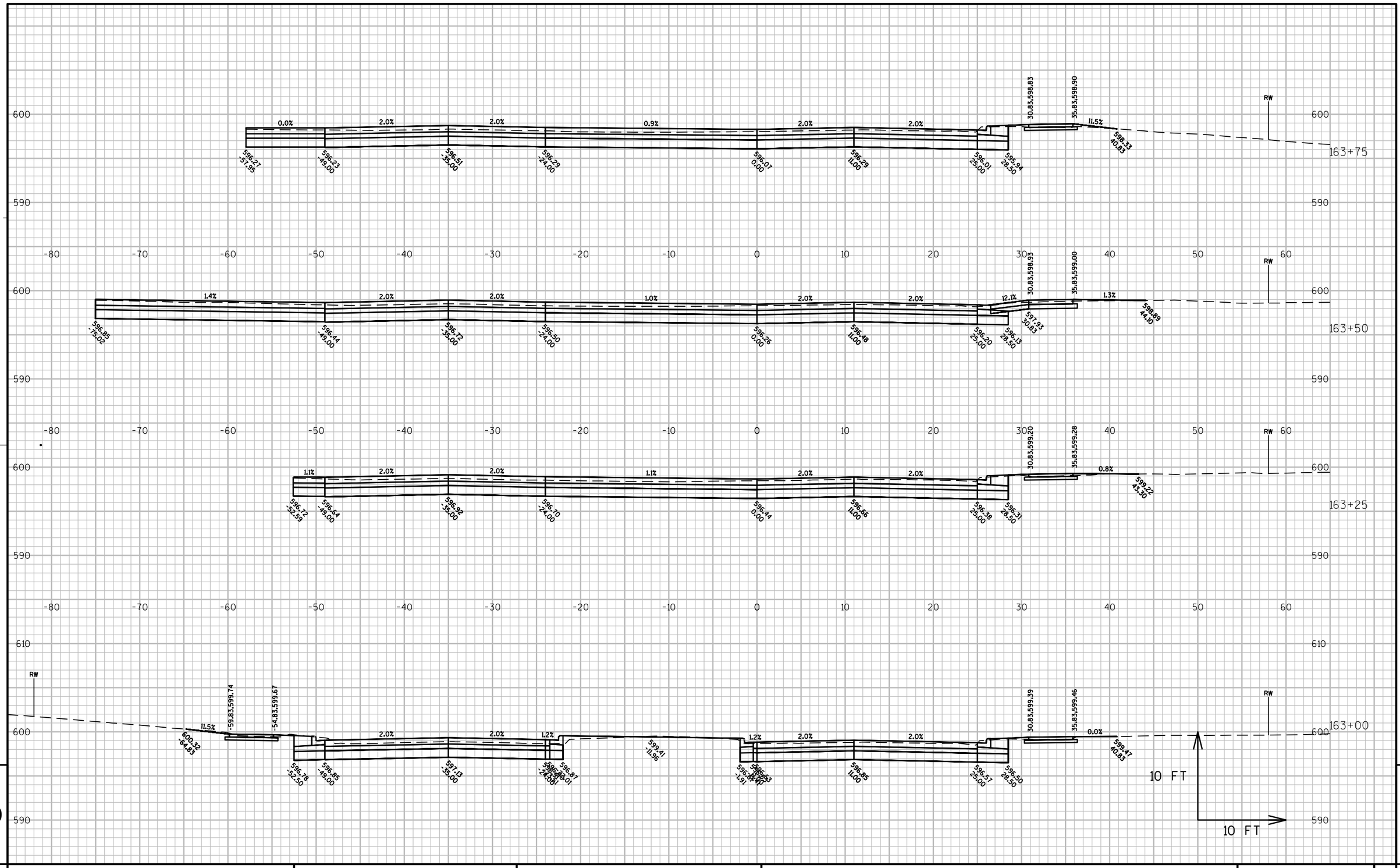
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 956	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_15300-16450.DWG PLOT DATE : 8/16/2017 3:06 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (27) STH 42 PLOT SCALE : 1:10_XREF

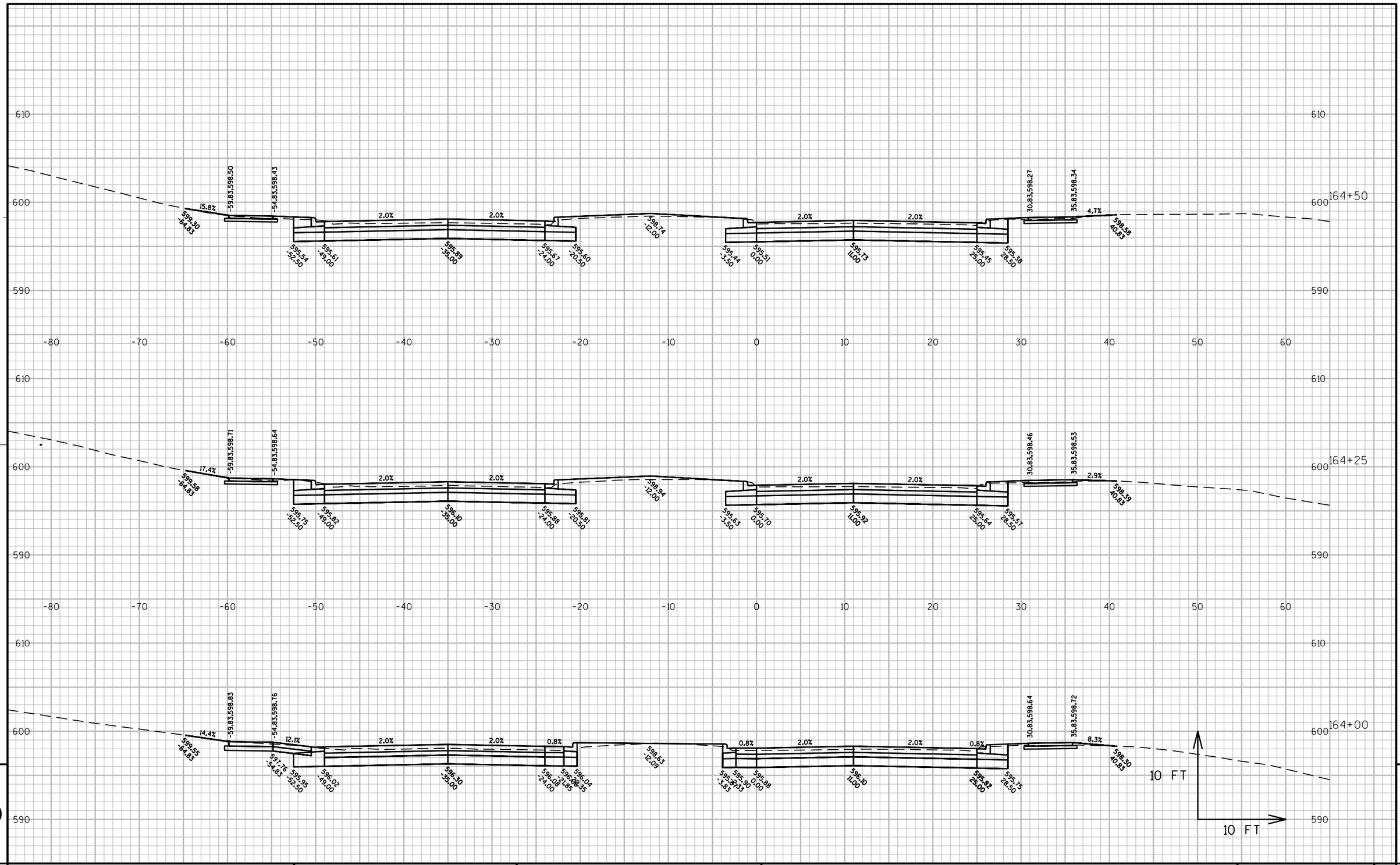
WISDOT/CADDS SHEET 49



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 957	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_15300-16450.DWG PLOT DATE : 8/16/2017 3:08 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (28) STH 42 (2) PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49

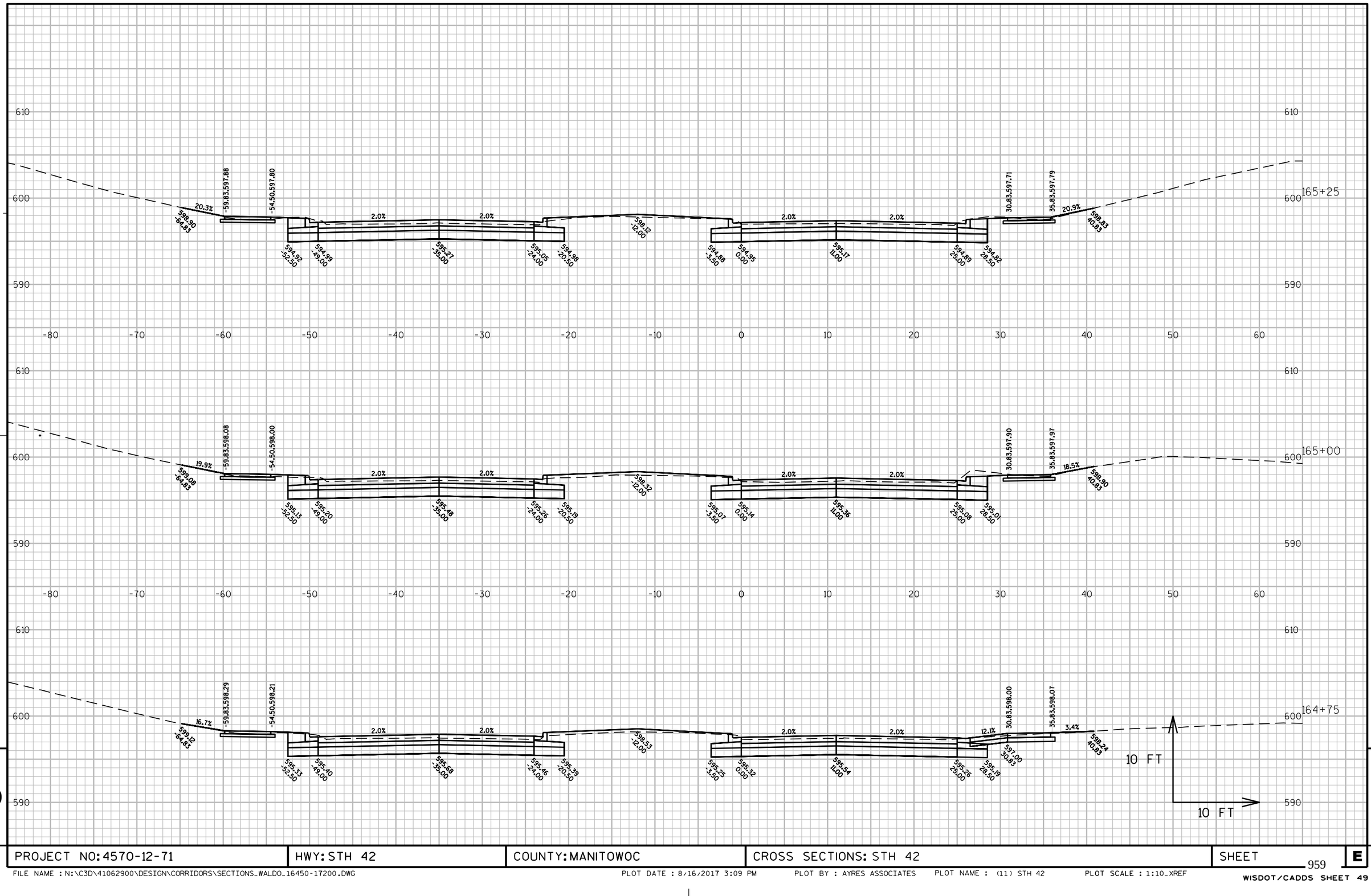


9

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 958	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_15300-16450.DWG PLOT DATE : 8/16/2017 3:07 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (28) STH 42 PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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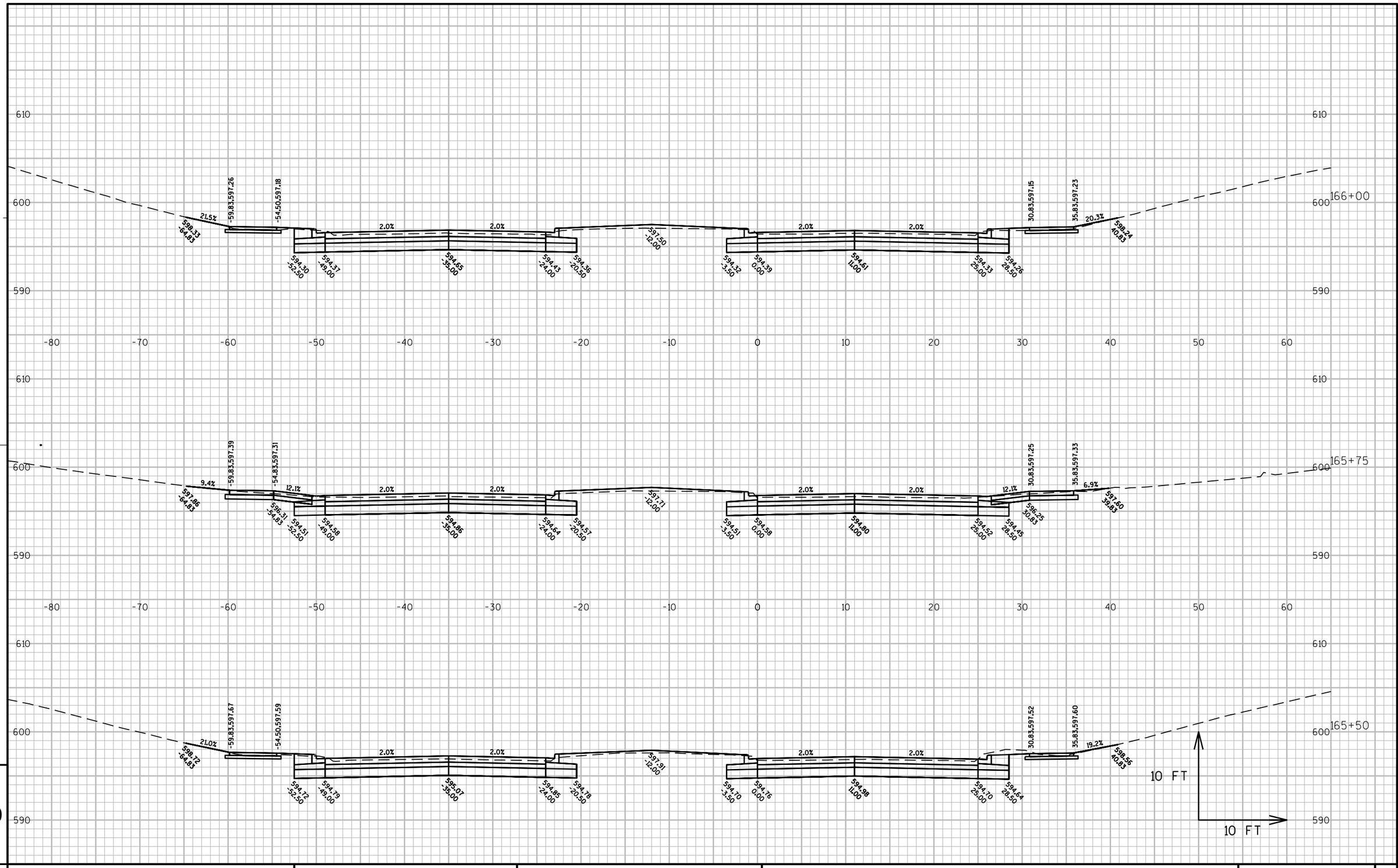
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 959	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_16450-17200.DWG PLOT DATE : 8/16/2017 3:09 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (11) STH 42 PLOT SCALE : 1:10_XREF
WISDOT/CADDS SHEET 49



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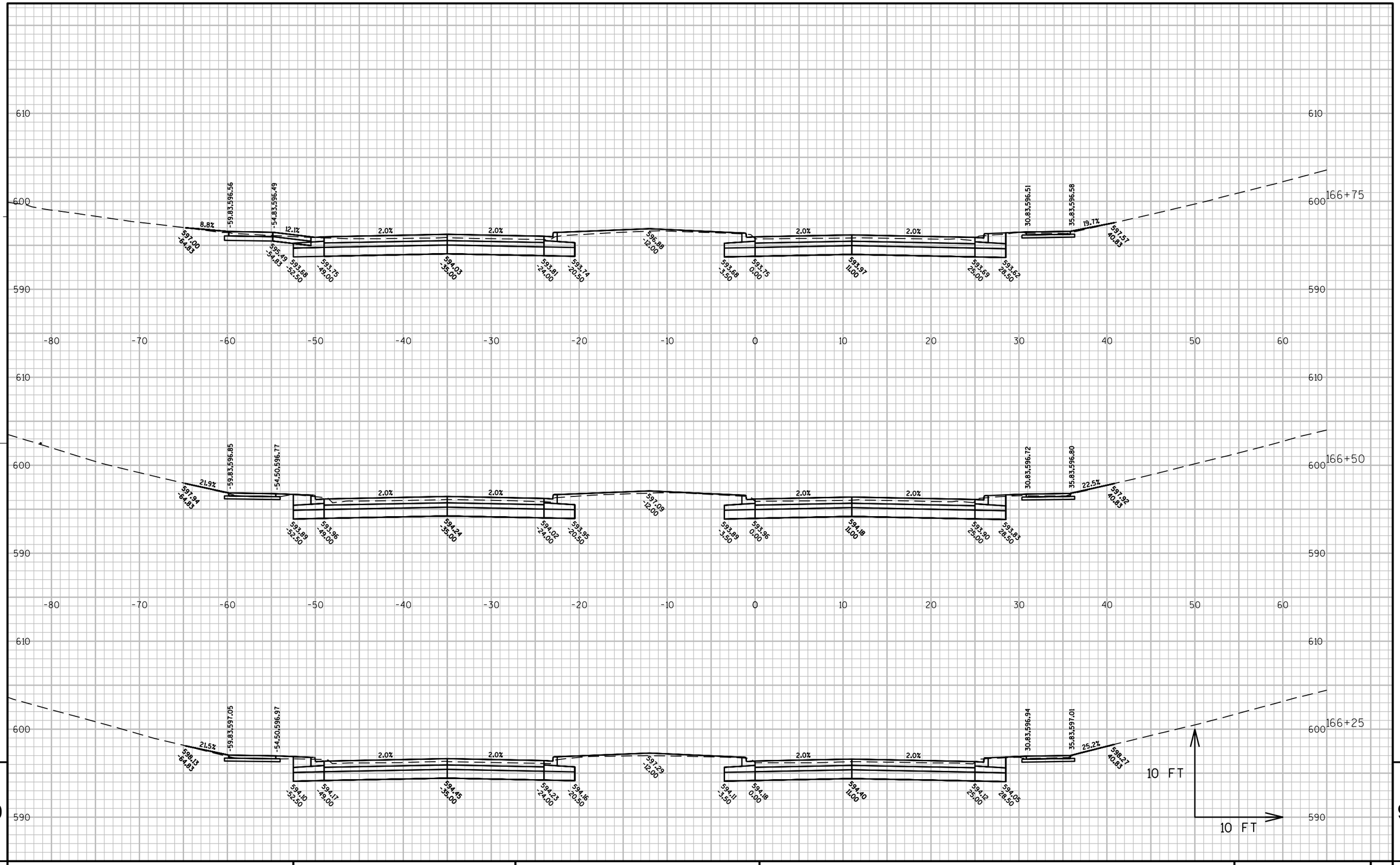
9

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 960	E

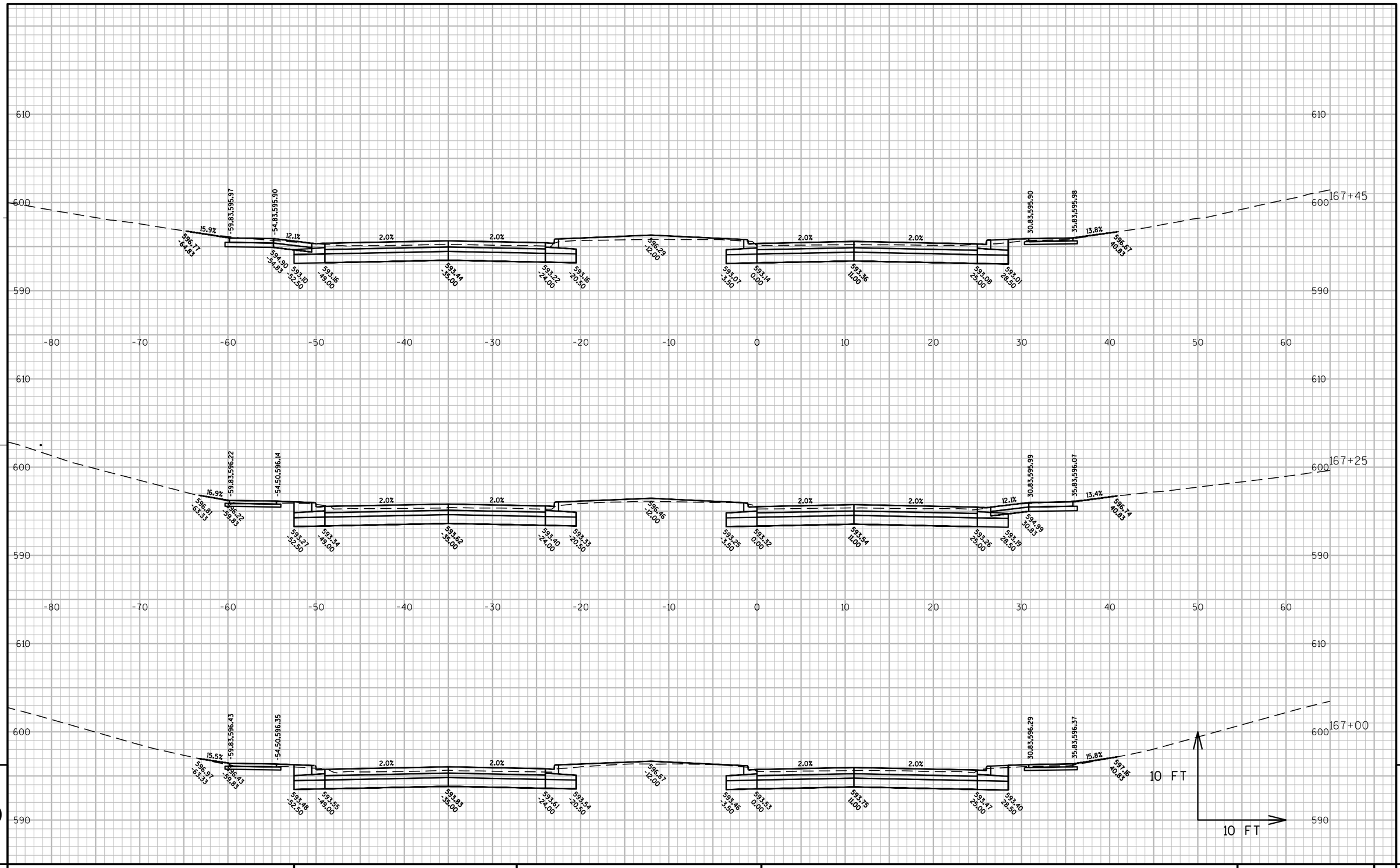
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_16450-17200.DWG PLOT DATE : 8/16/2017 3:09 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (12) STH 42 PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 961	E

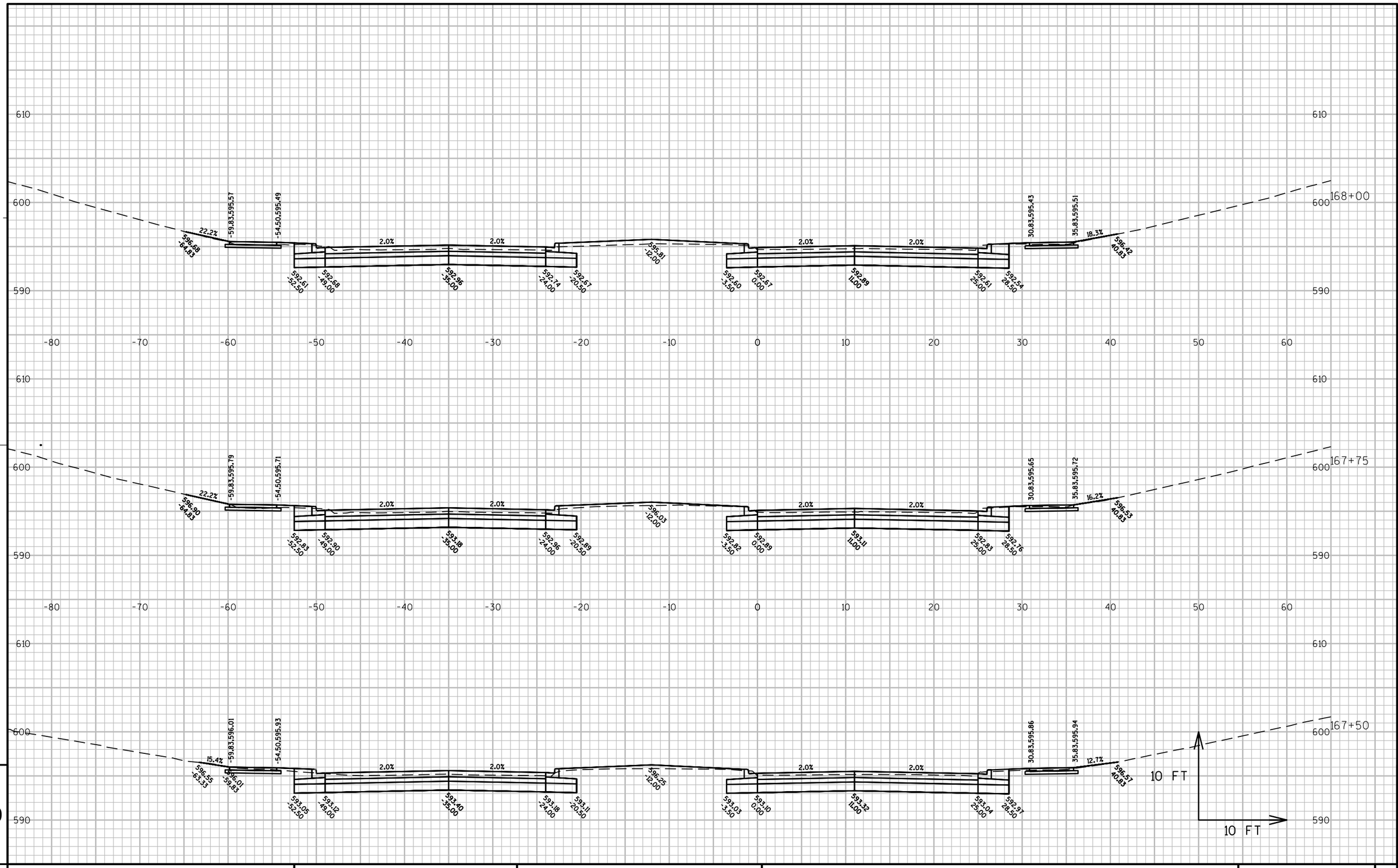
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_16450-17200.DWG PLOT DATE : 8/16/2017 3:10 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (13) STH 42 PLOT SCALE : 1:10_XREF
WISDOT/CADDS SHEET 49



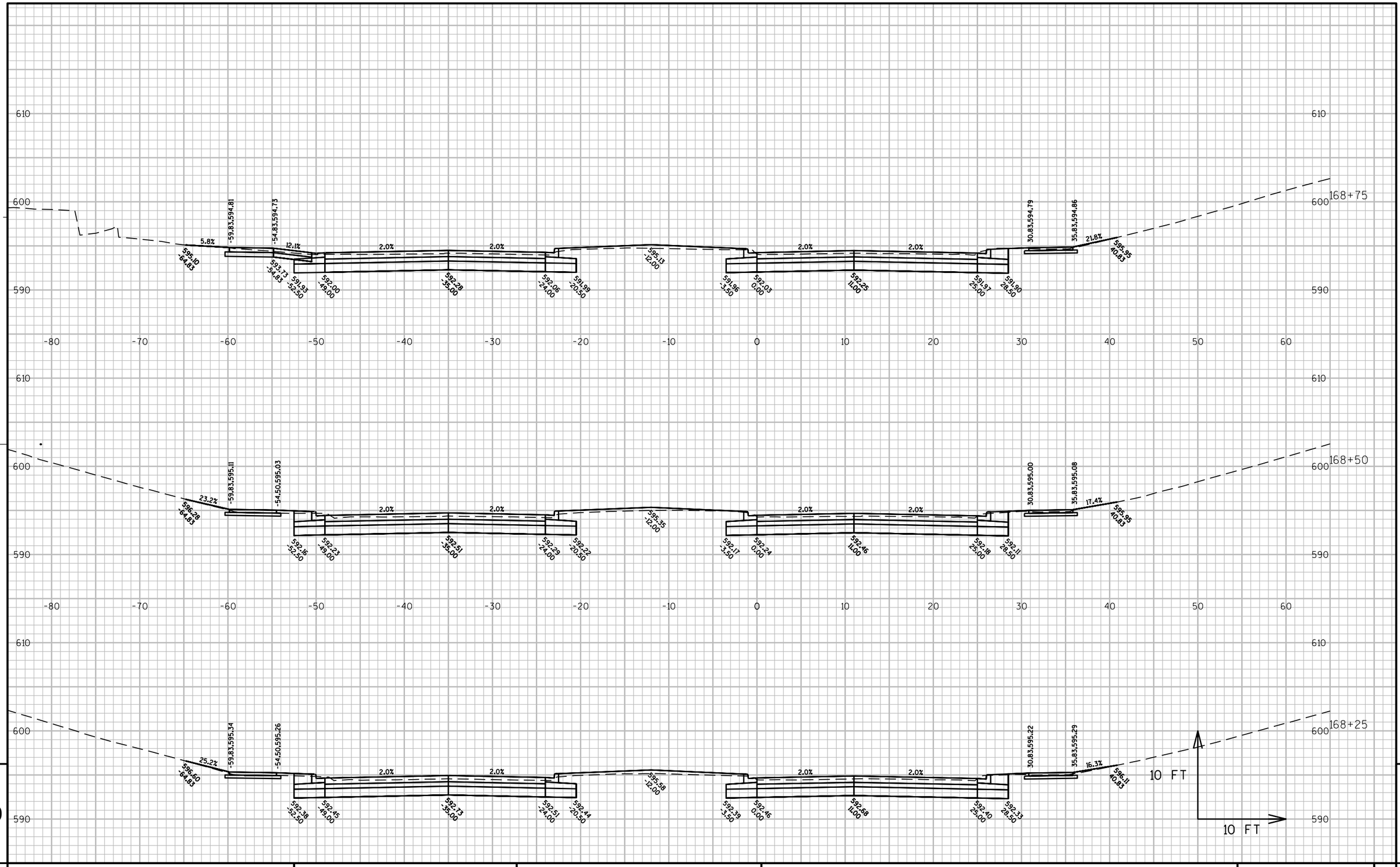
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_16450-17200.DWG PLOT DATE : 8/16/2017 3:10 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (14) STH 42 PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



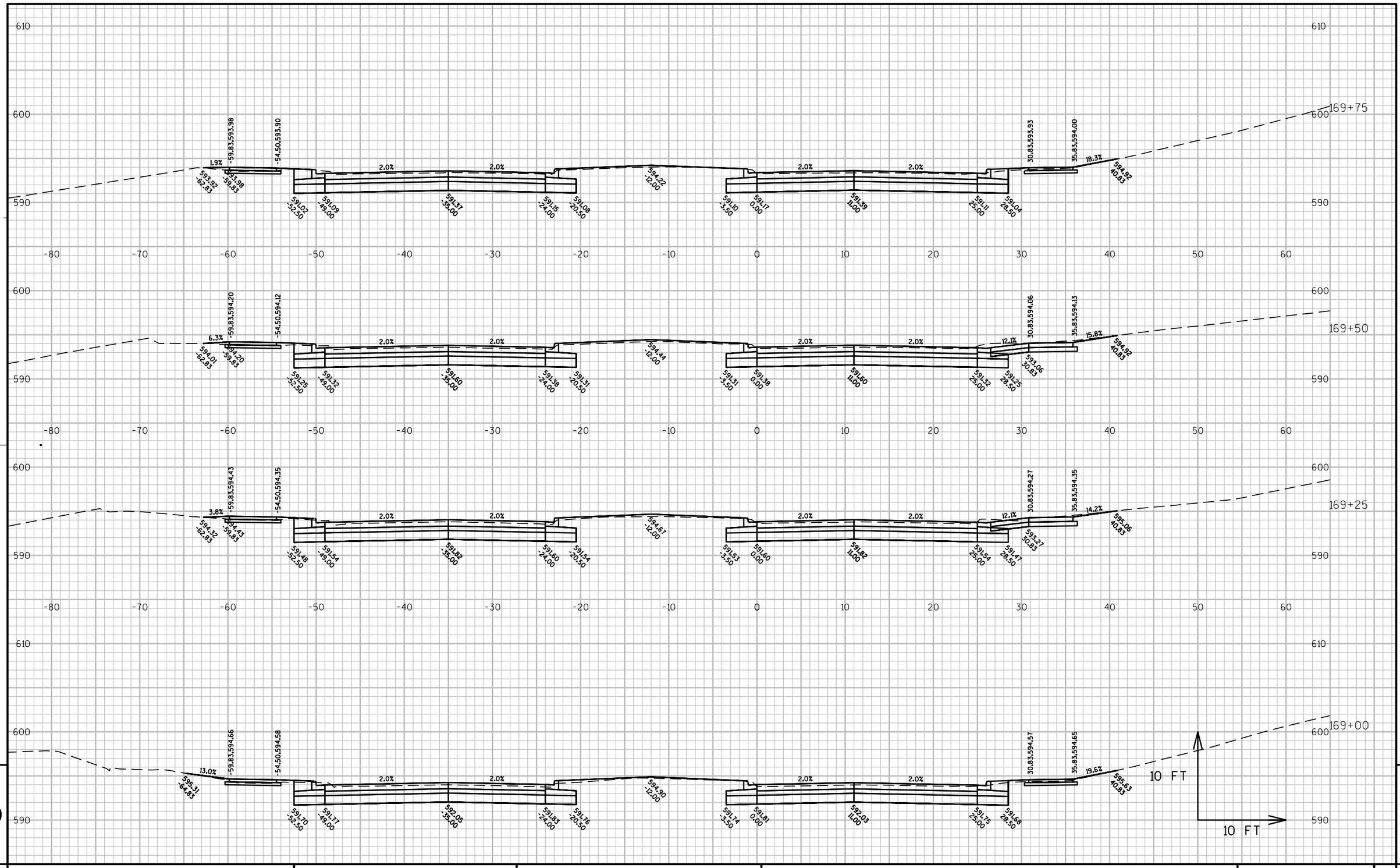
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 963	E



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 964	E

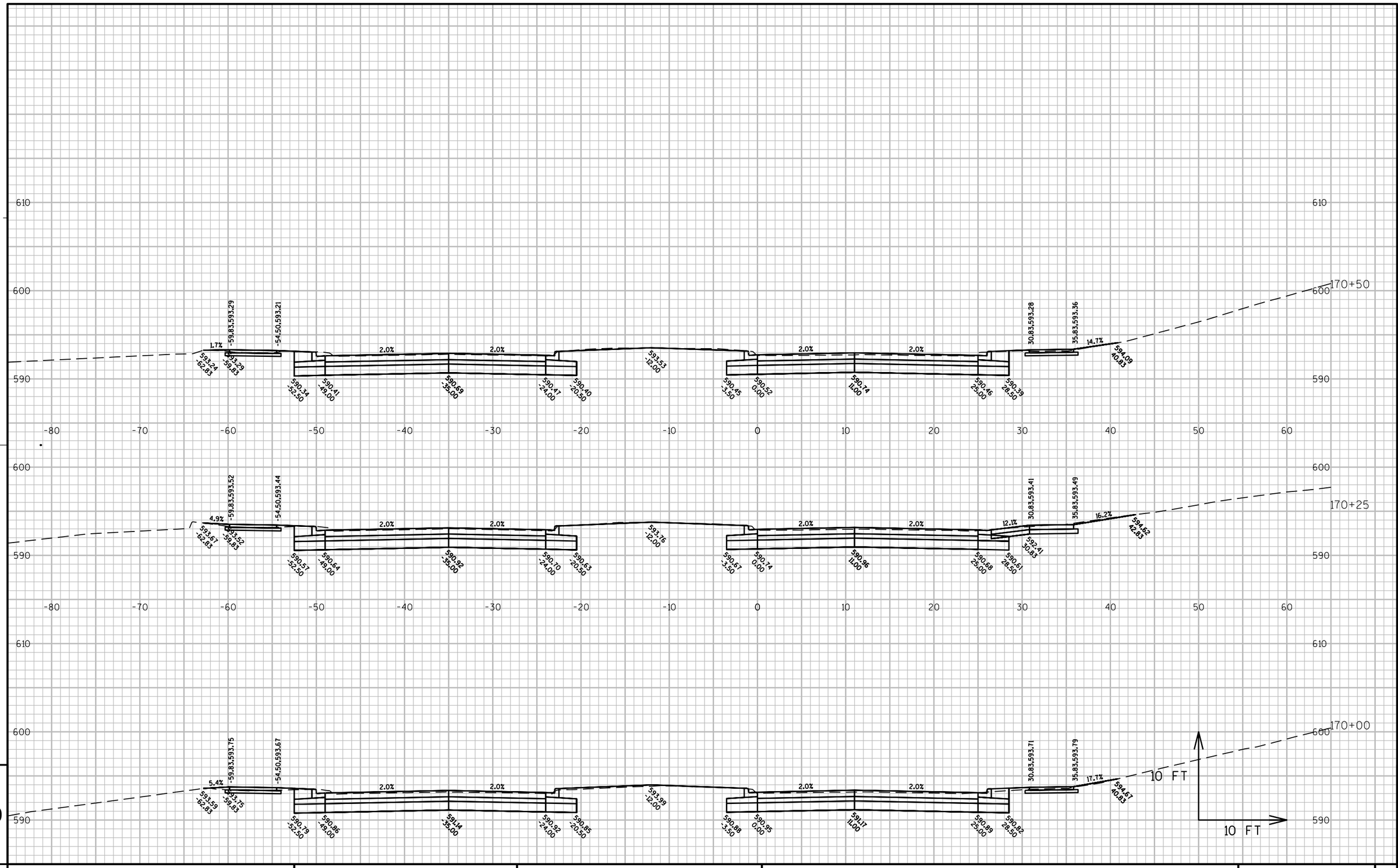
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_16450-17200.DWG PLOT DATE : 8/16/2017 3:10 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (16) STH 42 PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



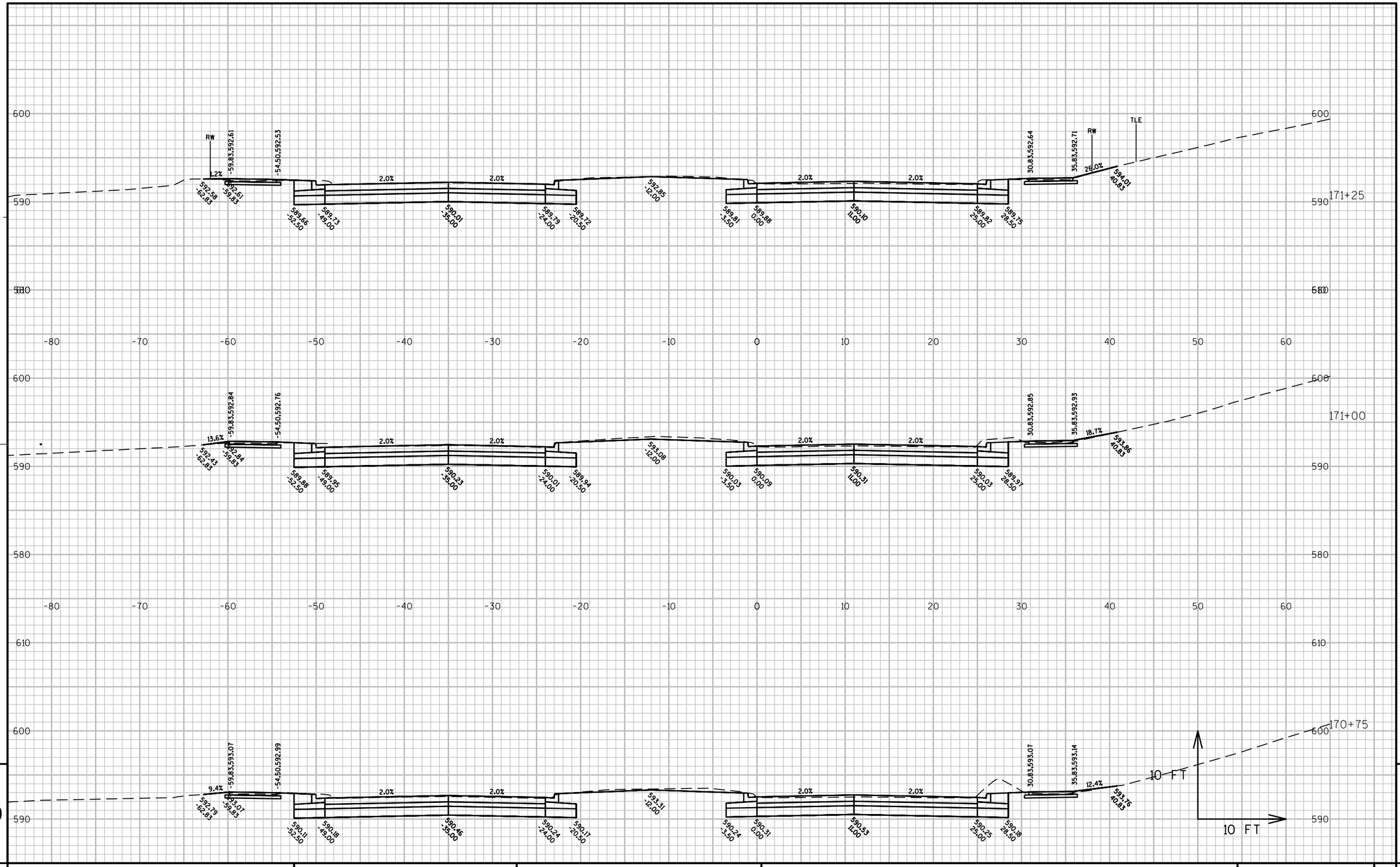
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_16450-17200.DWG PLOT DATE : 8/16/2017 3:10 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (17) STH 42 PLOT SCALE : 1:10_XREF



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_16450-17200.DWG PLOT DATE : 8/16/2017 3:10 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (18) STH 42 PLOT SCALE : 1:10_XREF



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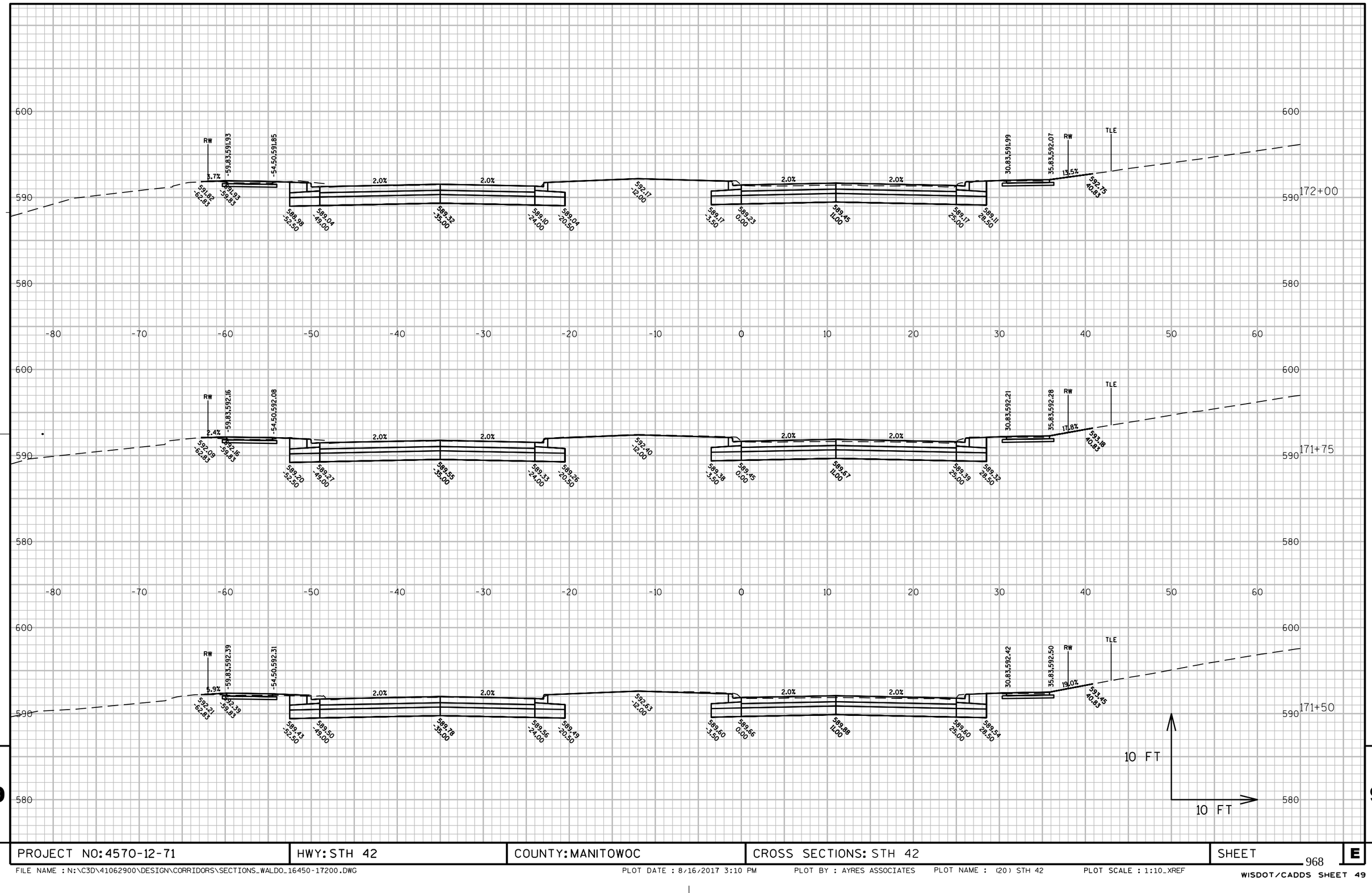
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 967	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_16450-17200.DWG PLOT DATE : 8/16/2017 3:10 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (19) STH 42 PLOT SCALE : 1:10_XREF

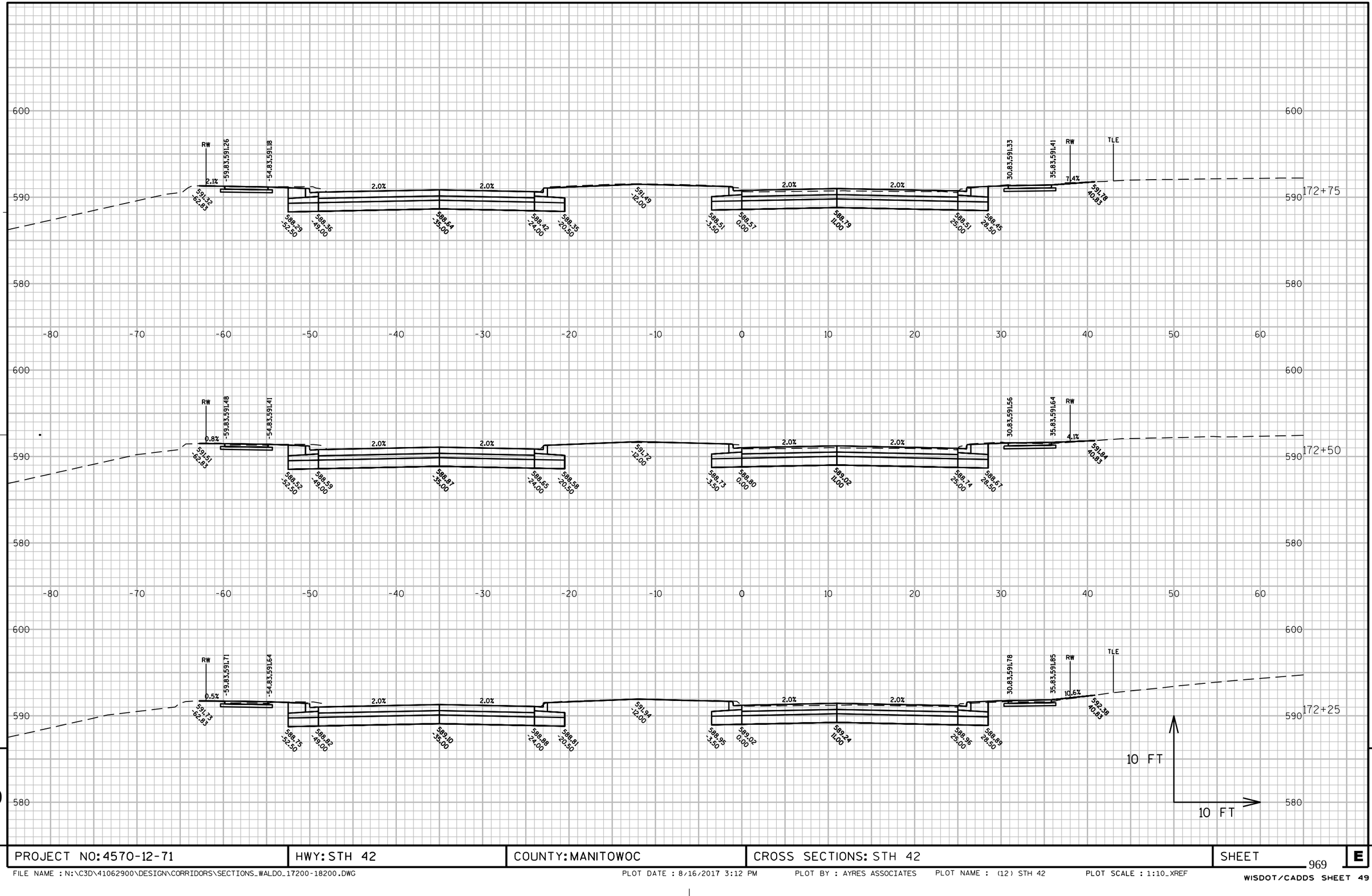
WISDOT/CADDS SHEET 49



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_16450-17200.DWG PLOT DATE : 8/16/2017 3:10 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (20) STH 42 PLOT SCALE : 1:10_XREF

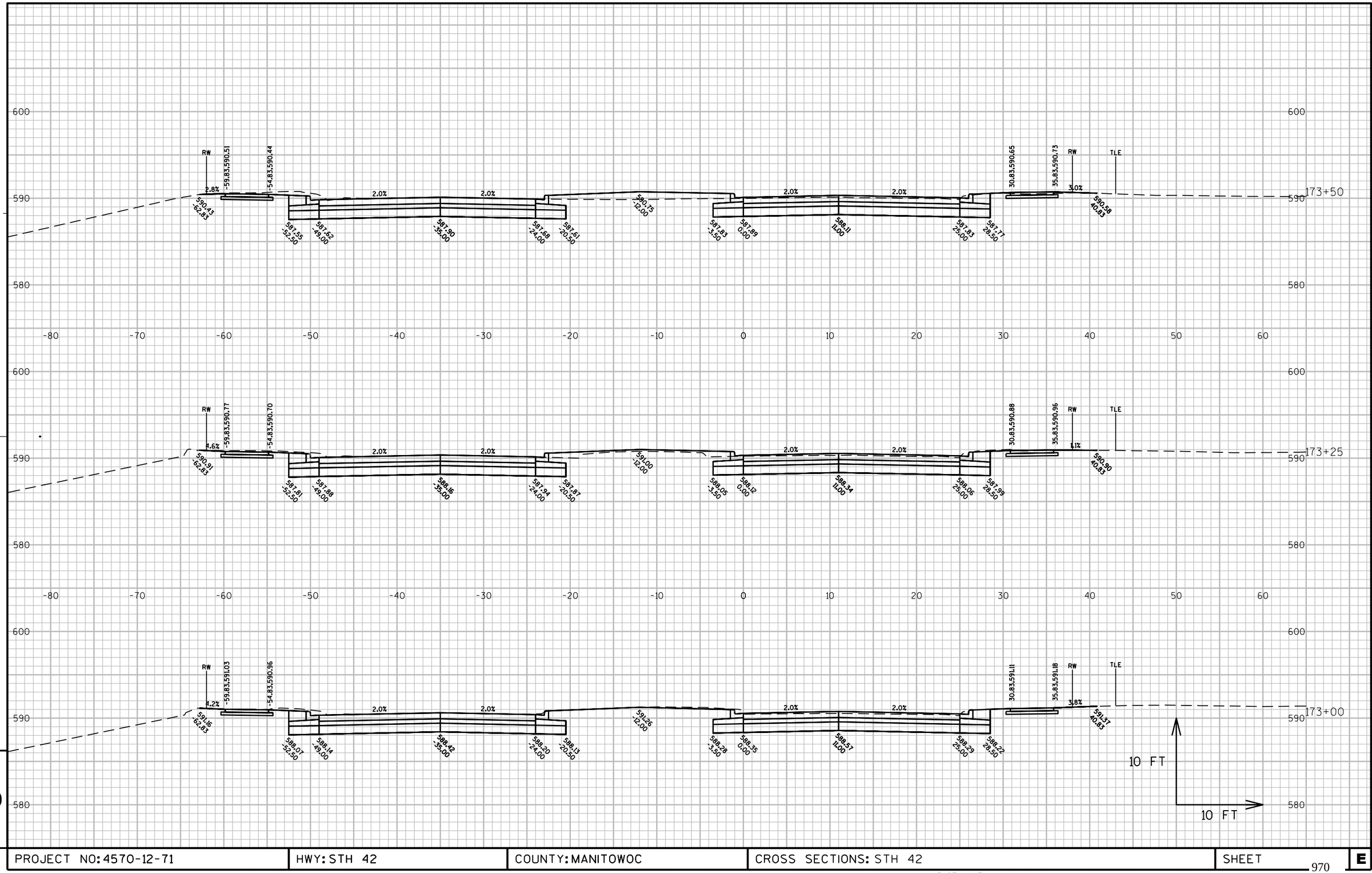
WISDOT/CADDS SHEET 49



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_17200-18200.DWG PLOT DATE : 8/16/2017 3:12 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (12) STH 42 PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



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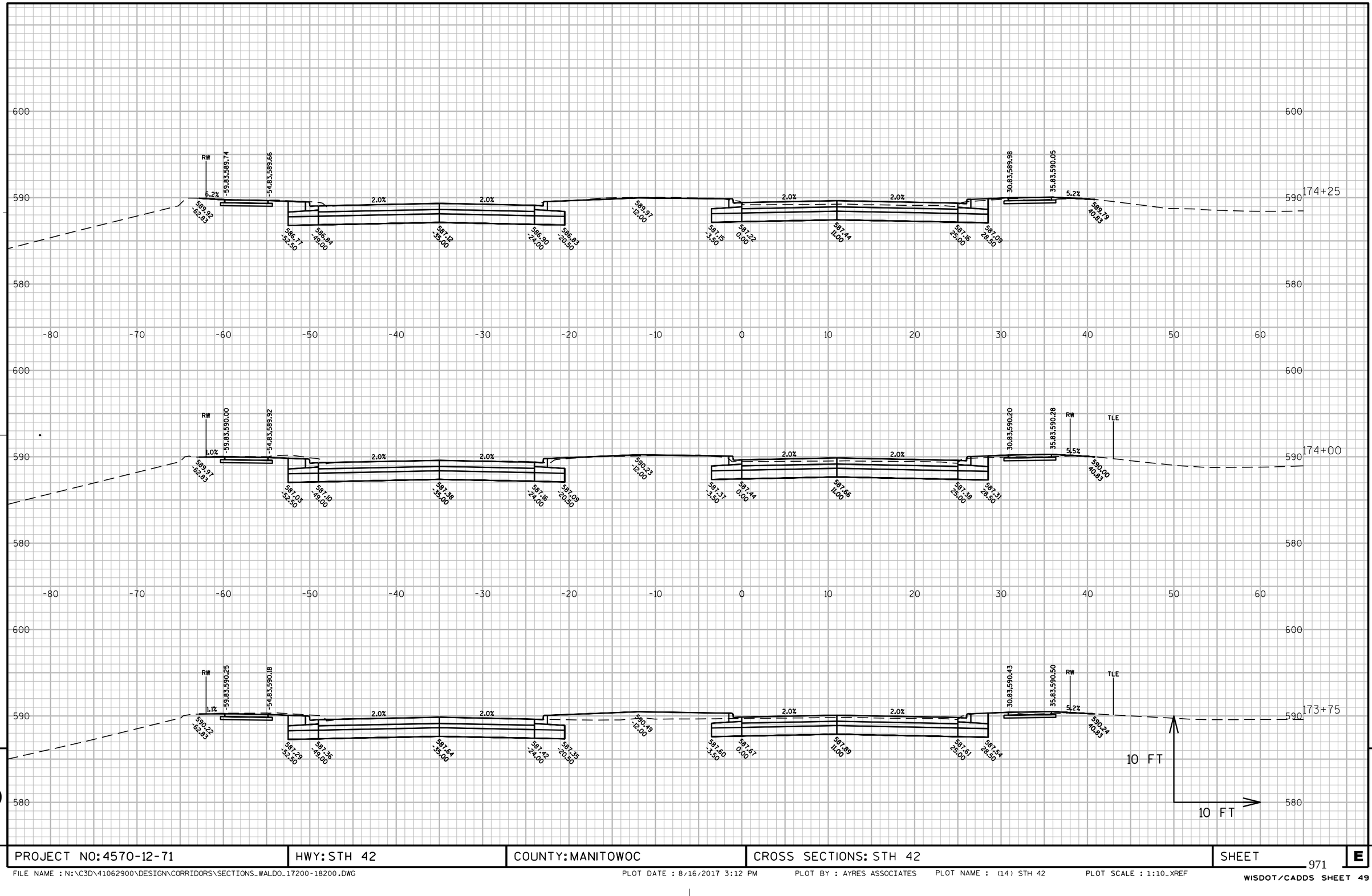
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET	E

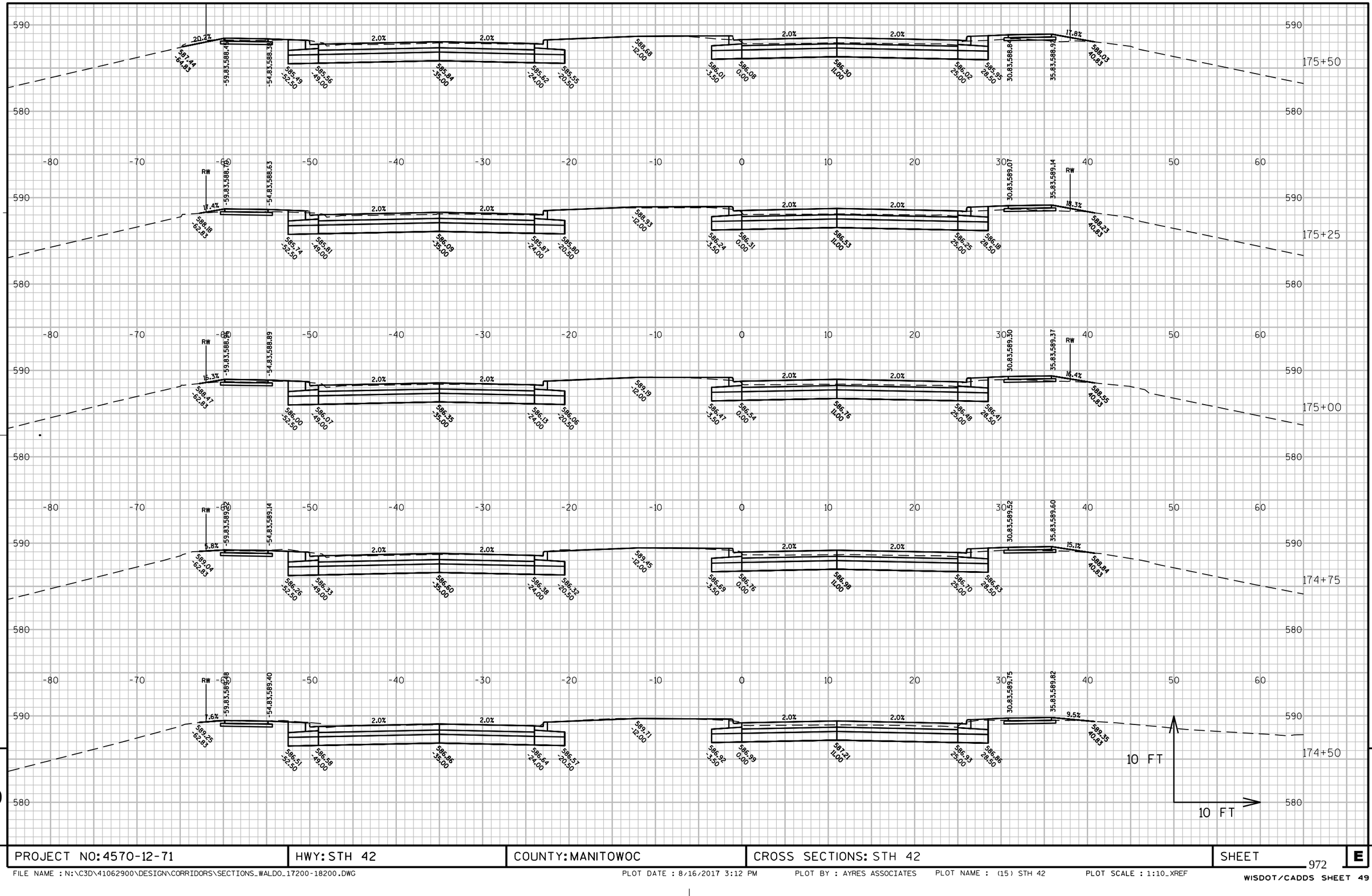
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_17200-18200.DWG PLOT DATE : 8/16/2017 3:12 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (13) STH 42 PLOT SCALE : 1:10_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 971 E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_17200-18200.DWG PLOT DATE : 8/16/2017 3:12 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (14) STH 42 PLOT SCALE : 1:10_XREF

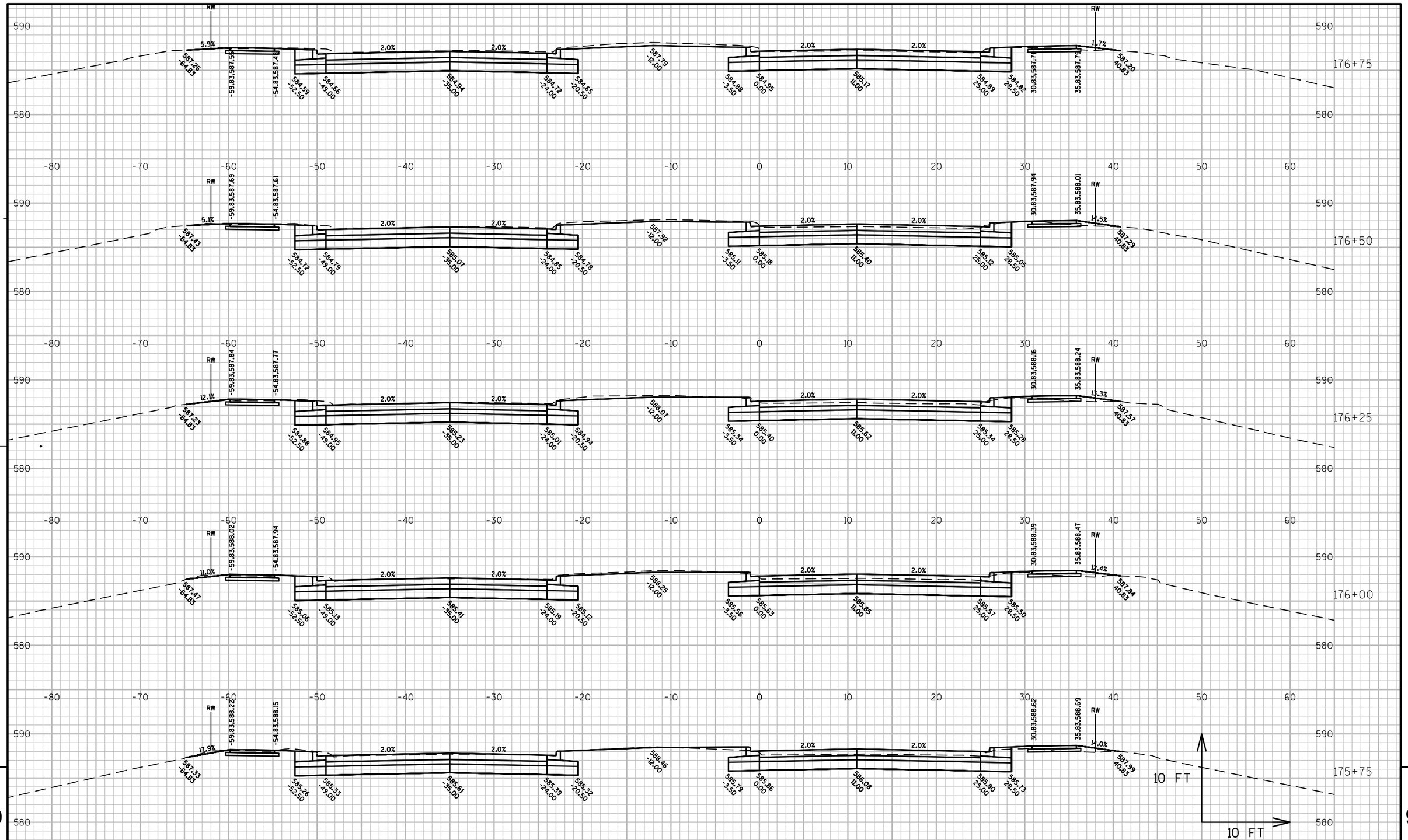
WISDOT/CADDS SHEET 49



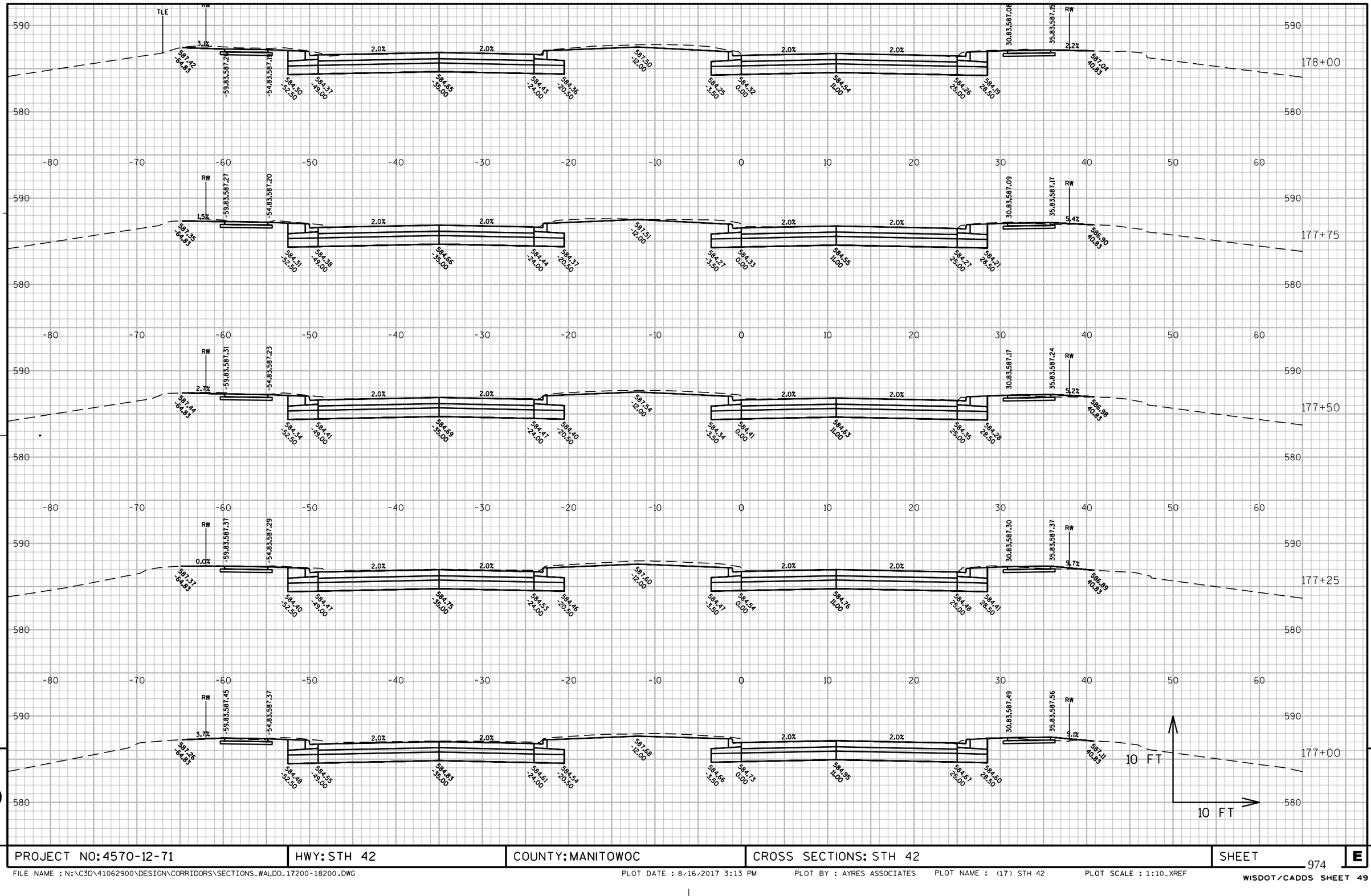
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 972	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_17200-18200.DWG PLOT DATE : 8/16/2017 3:12 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (15) STH 42 PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



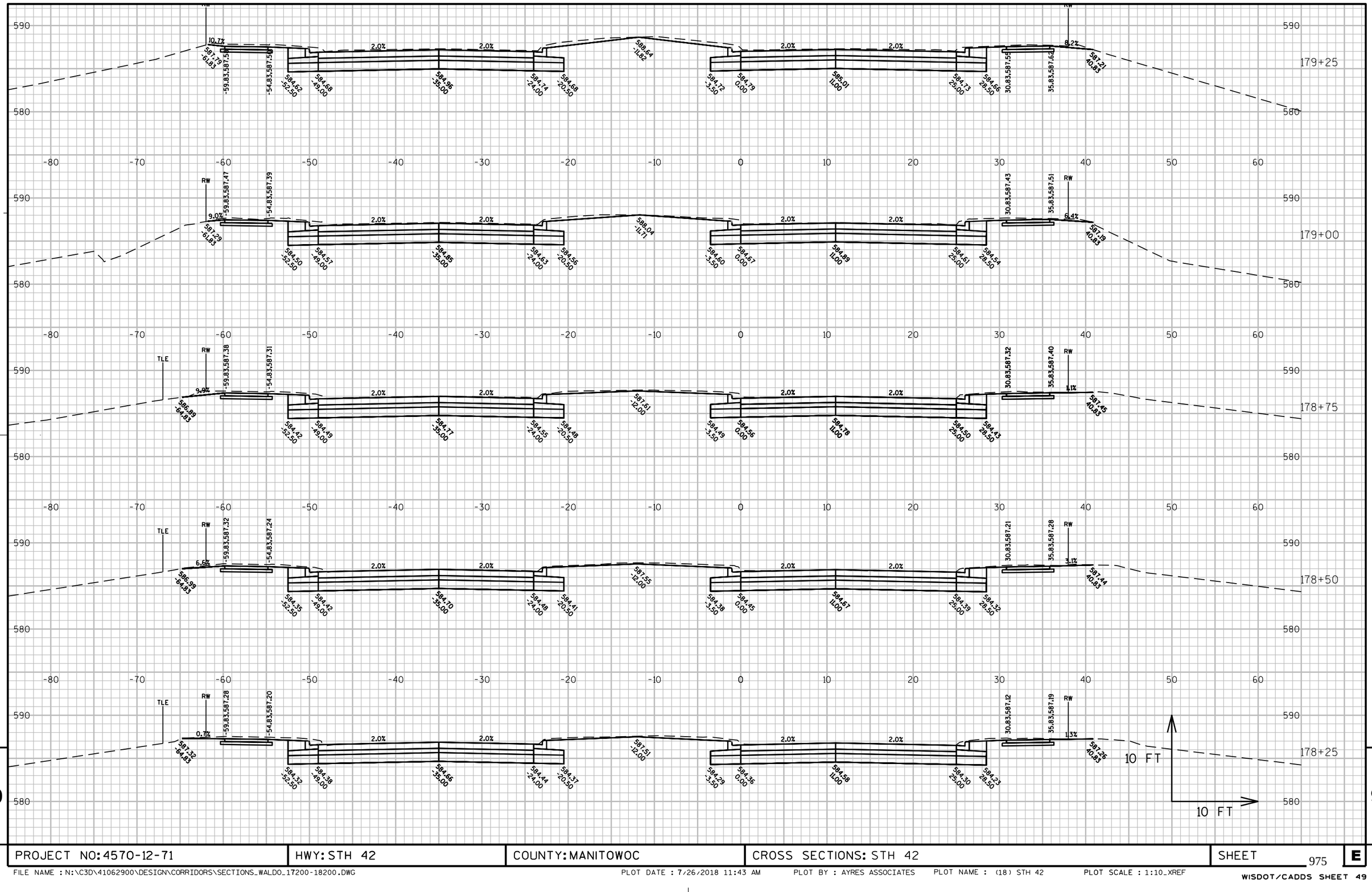
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET	E



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 974	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_17200-18200.DWG PLOT DATE : 8/16/2017 3:13 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (17) STH 42 PLOT SCALE : 1:10_XREF

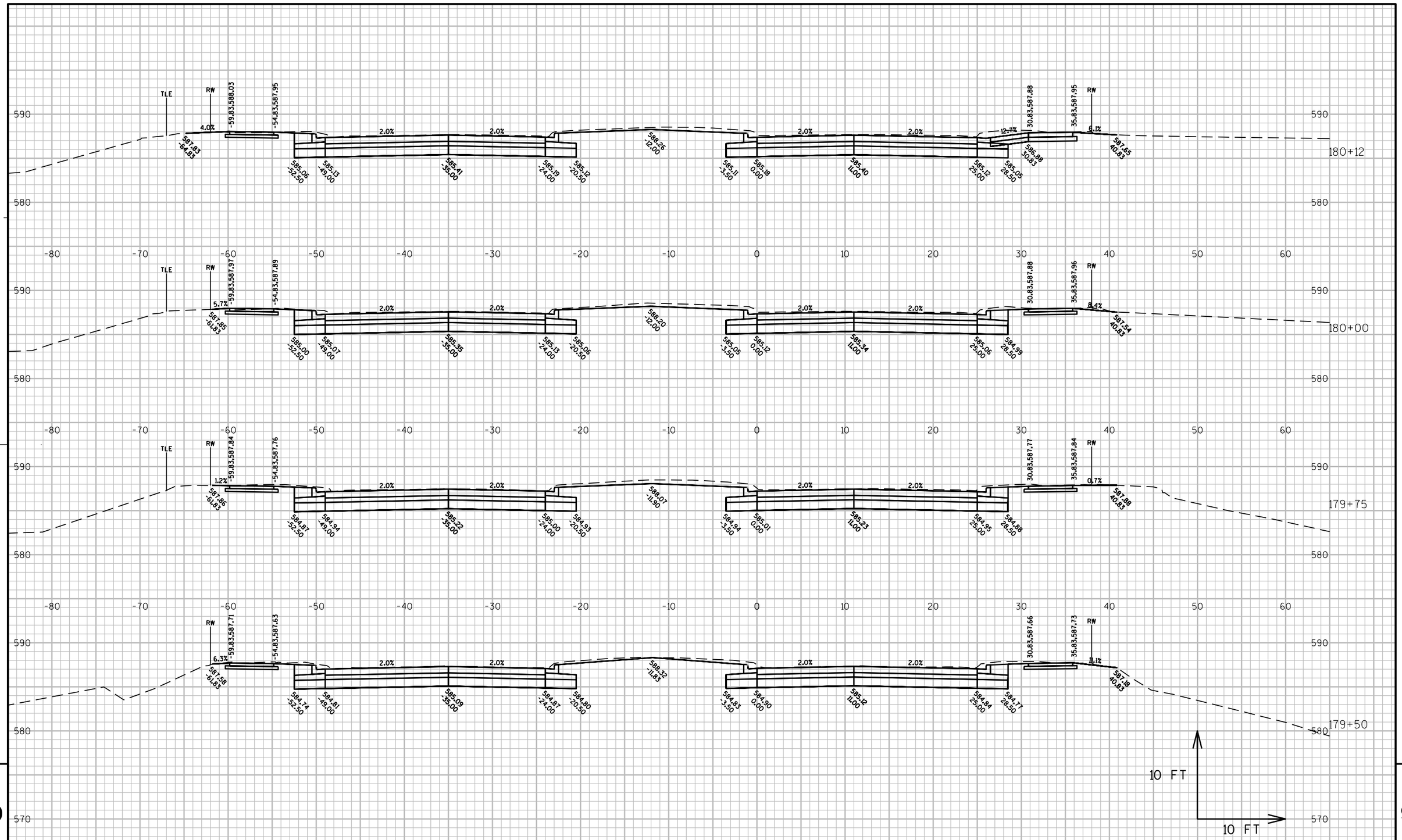
WISDOT/CADDS SHEET 49



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 975	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_17200-18200.DWG PLOT DATE : 7/26/2018 11:43 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : (18) STH 42 PLOT SCALE : 1:10_XREF

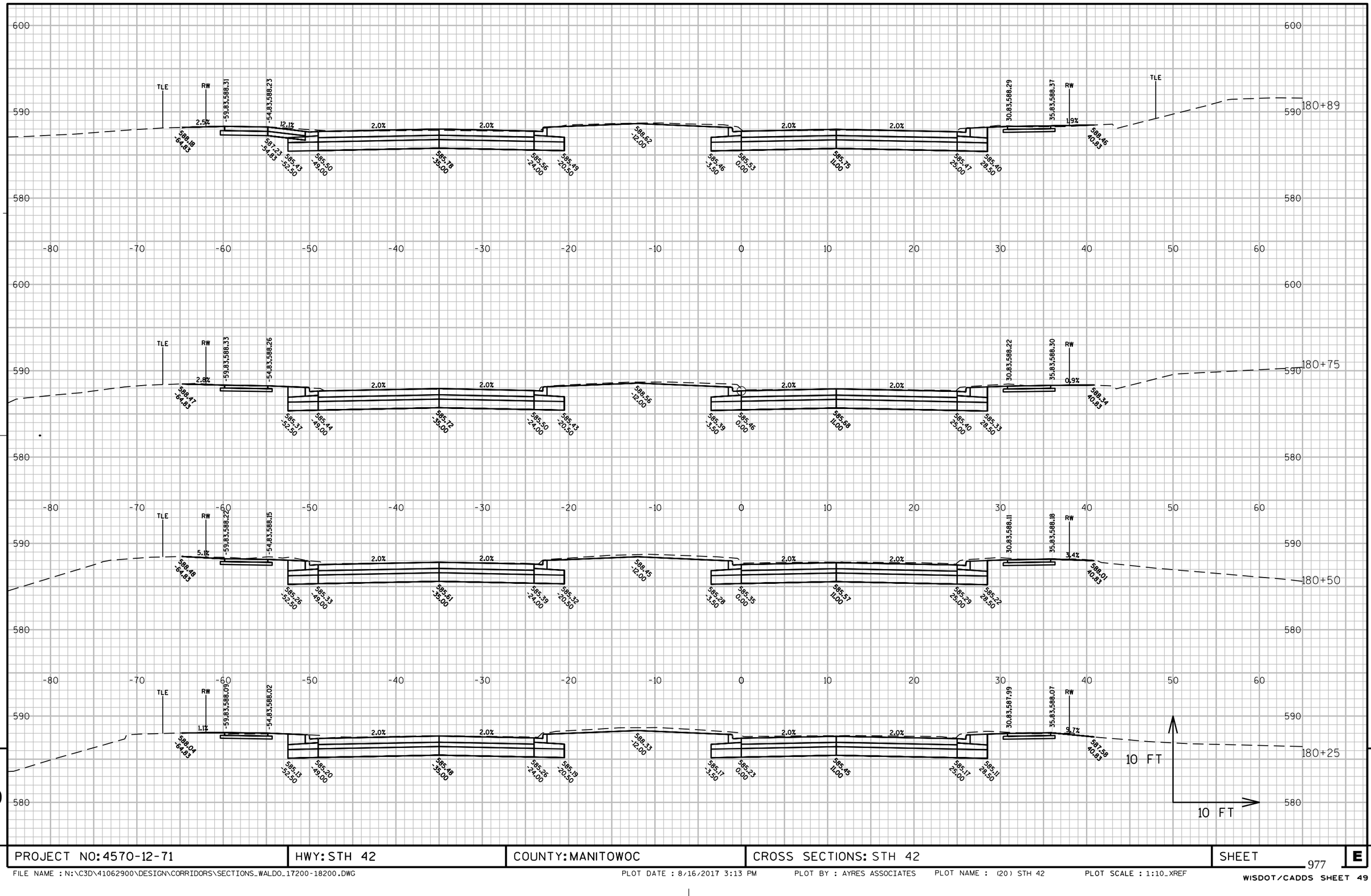
WISDOT/CADDS SHEET 49



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 976	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_17200-18200.DWG PLOT DATE : 7/26/2018 11:43 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : (19) STH 42 PLOT SCALE : 1:10_XREF

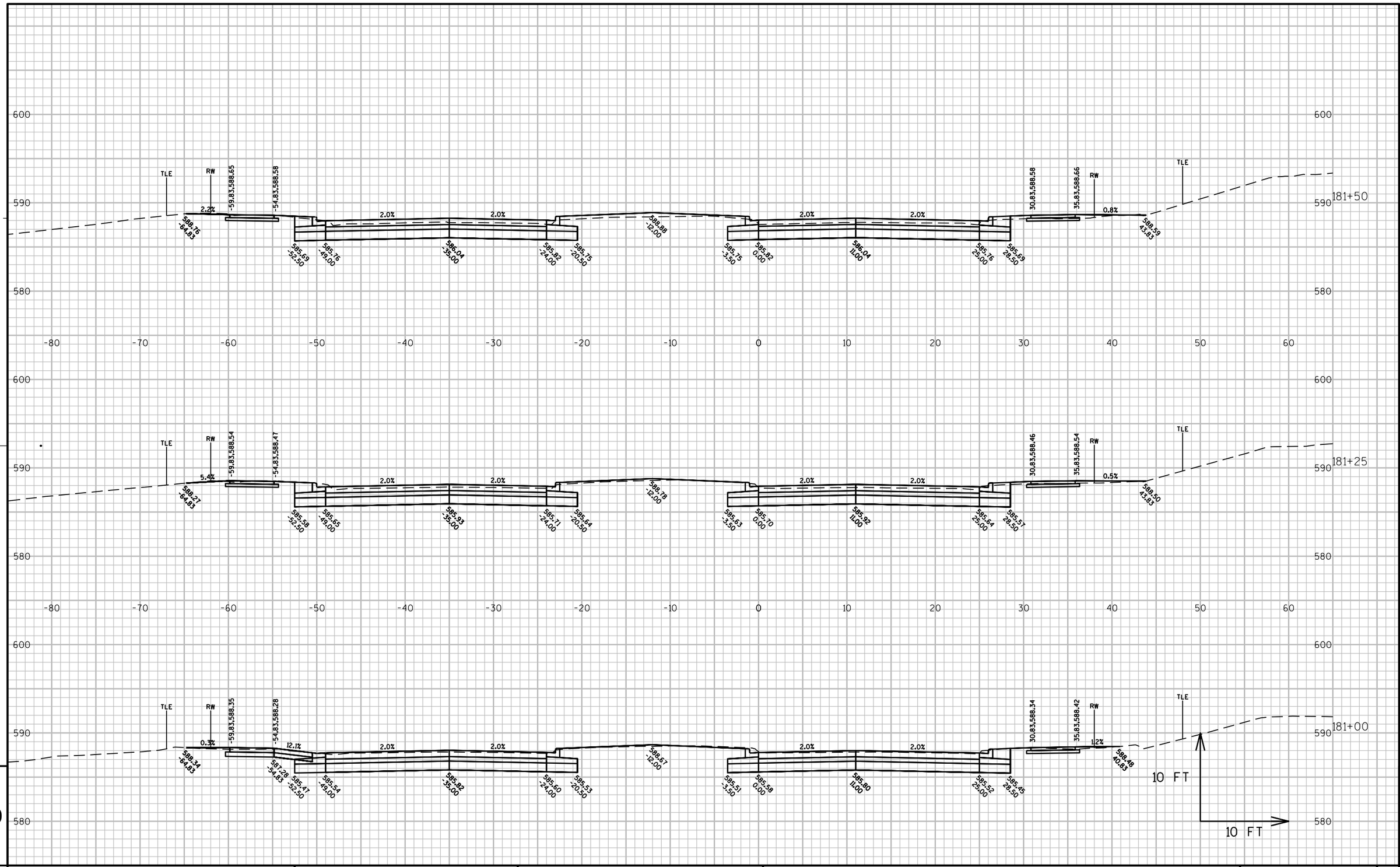
WISDOT/CADDS SHEET 49



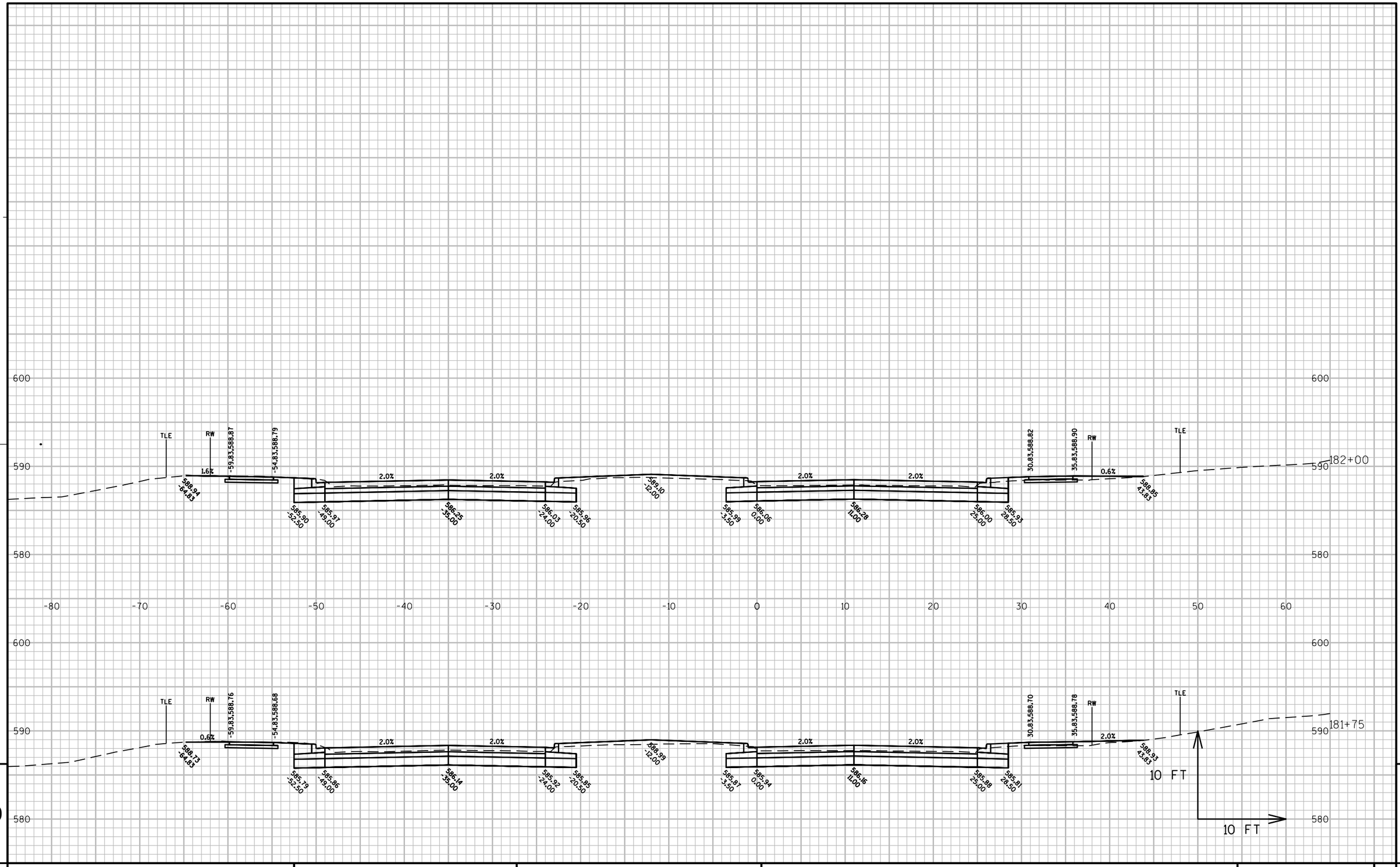
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_17200-18200.DWG PLOT DATE : 8/16/2017 3:13 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (20) STH 42 PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 978	E



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 979	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_17200-18200.DWG PLOT DATE : 8/16/2017 3:13 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (22) STH 42 PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49

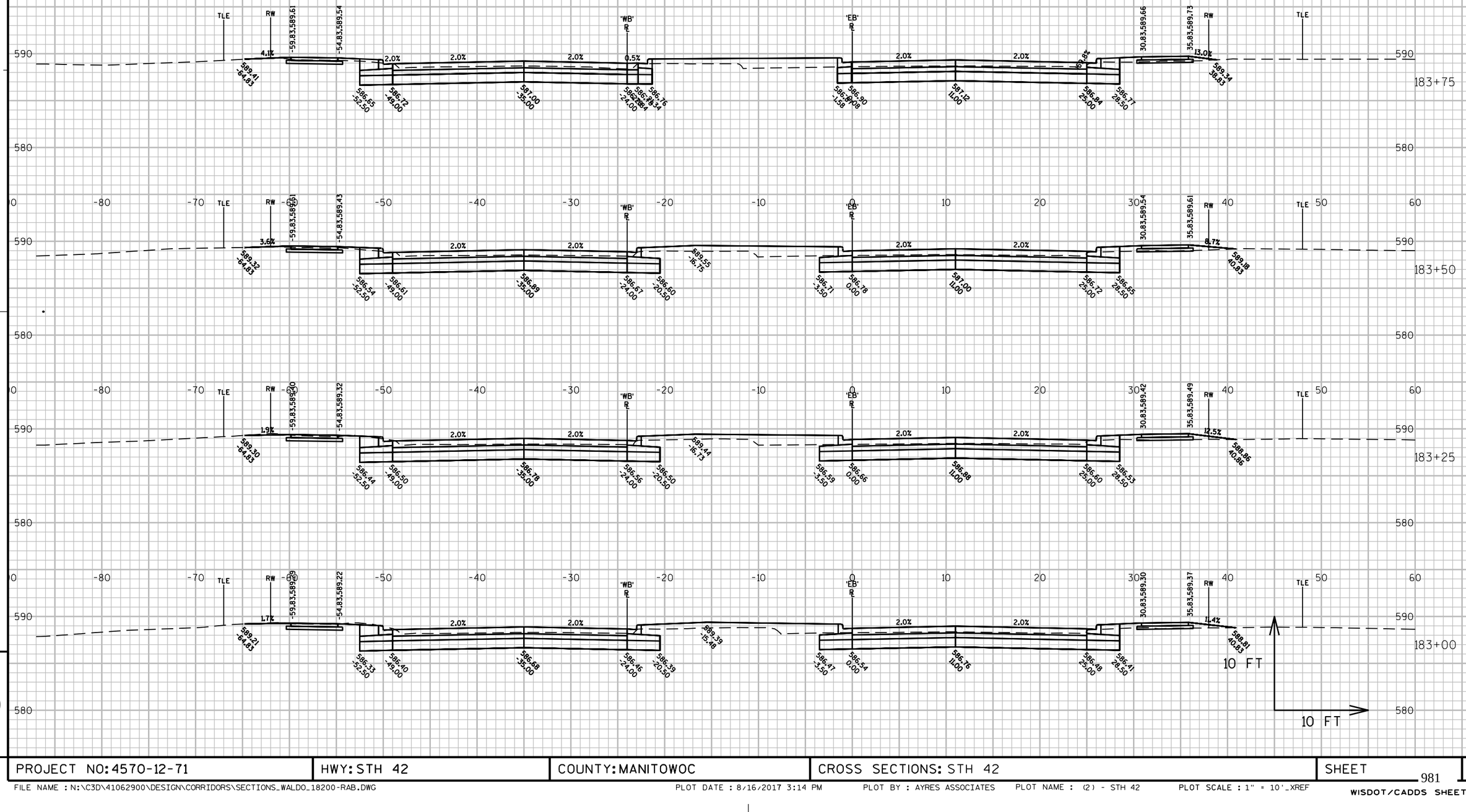
9

9

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 980	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:13 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1) - STH 42 PLOT SCALE : 1" = 10'_XREF

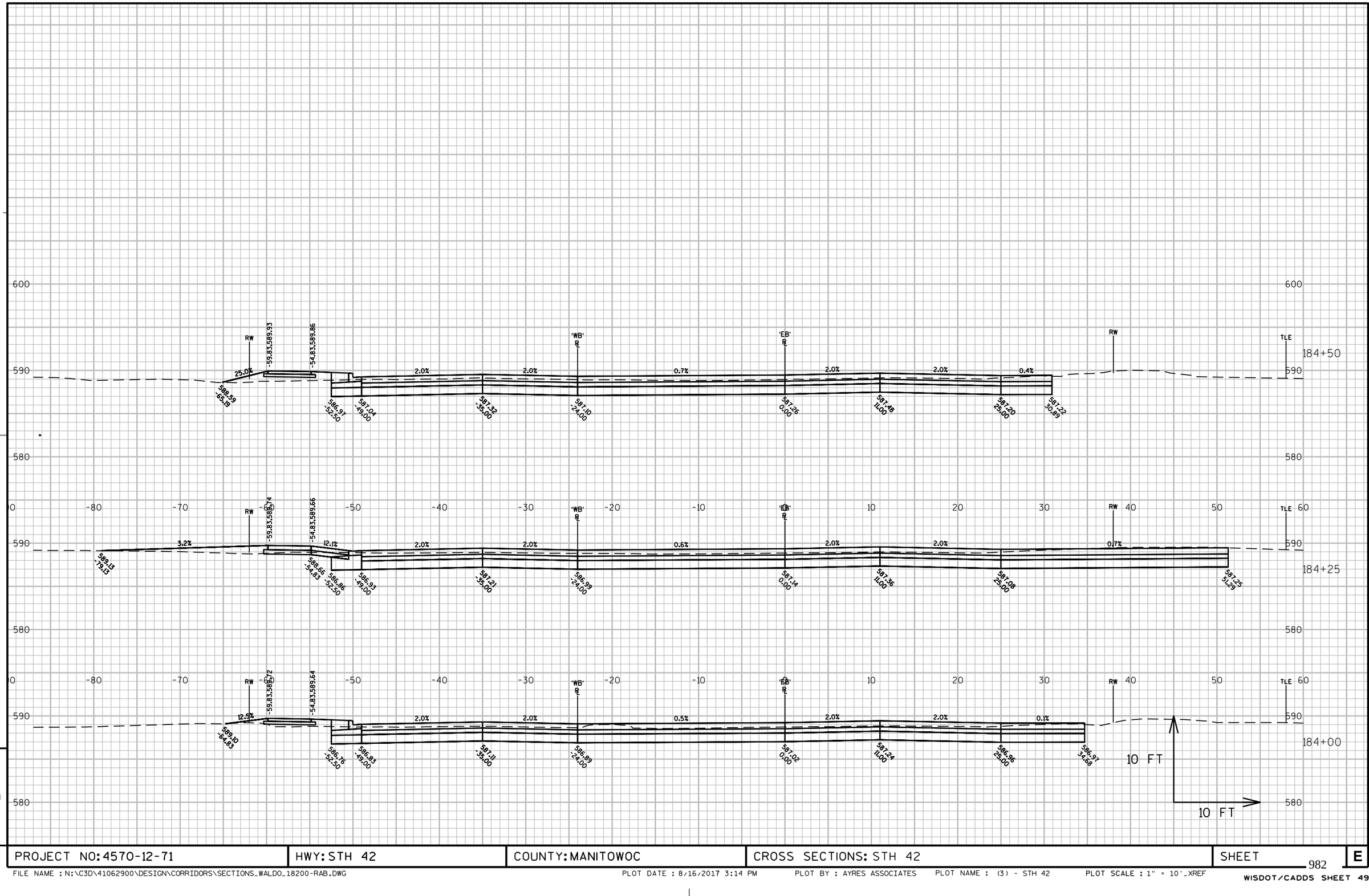
WISDOT/CADDS SHEET 49



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 981	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:14 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (2) - STH 42 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 982	E

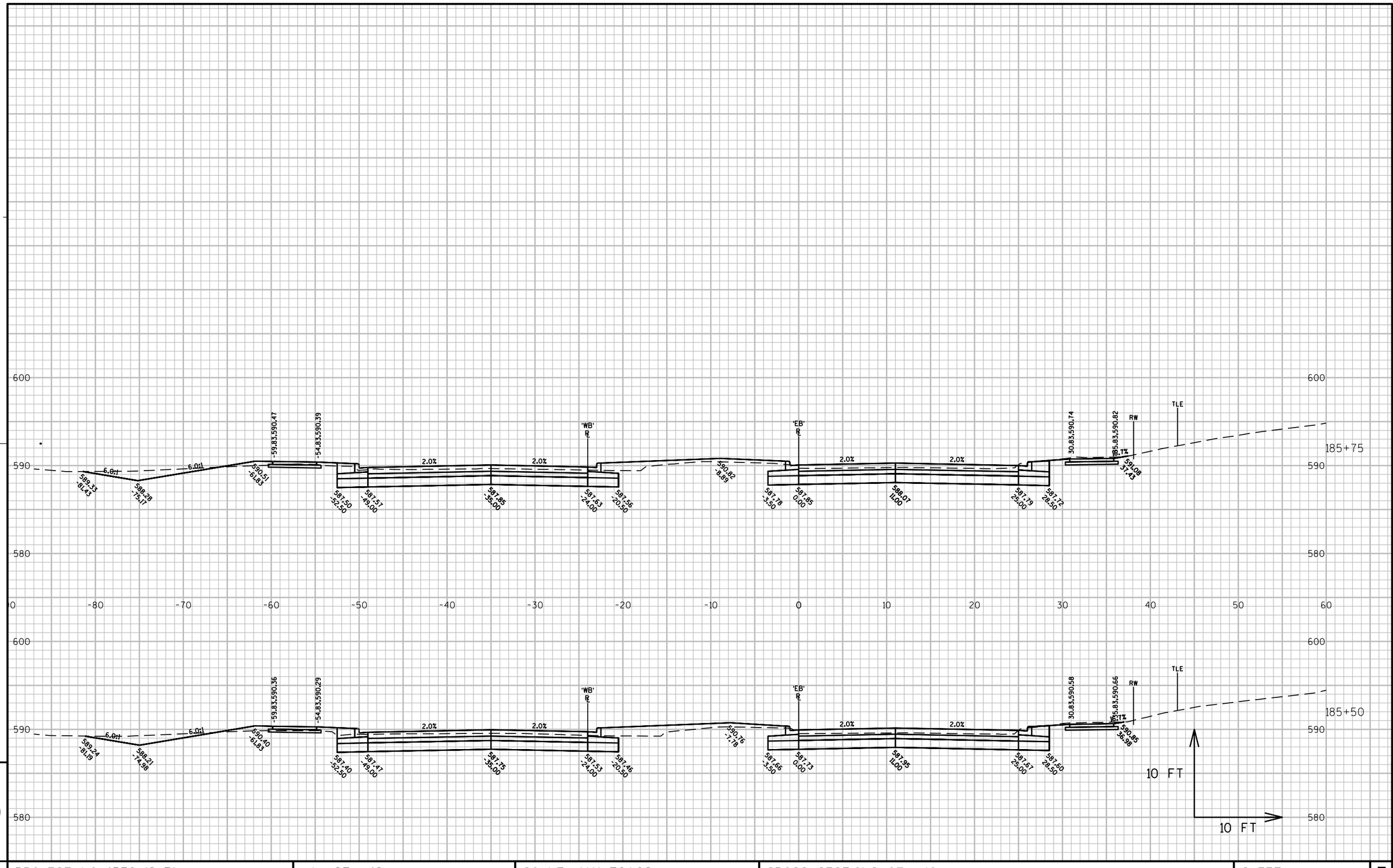
9

9

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET 983 E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:14 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (4) - STH 42 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49

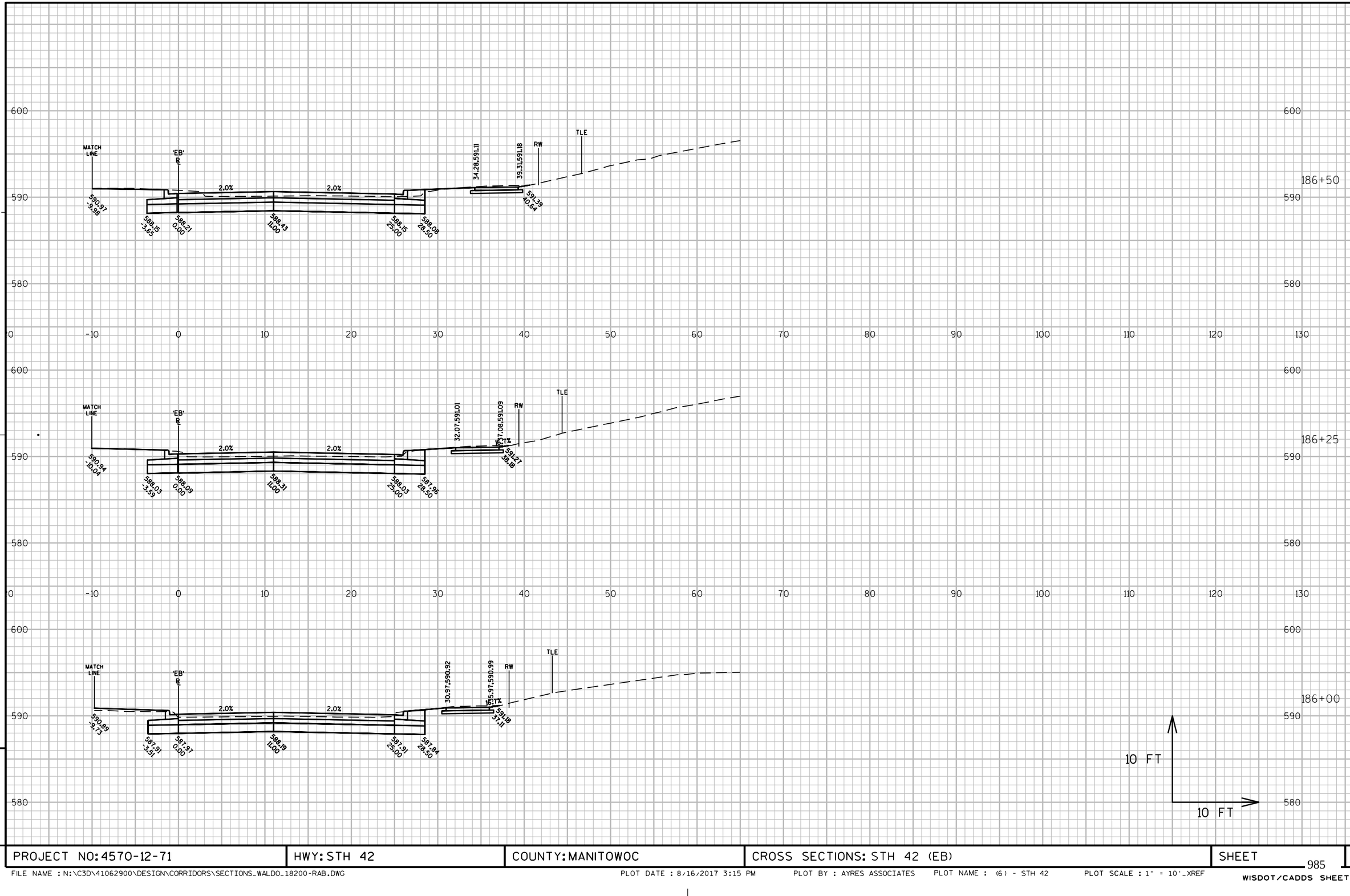


9

9

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:14 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (5) - STH 42 PLOT SCALE : 1" = 10'_XREF



9

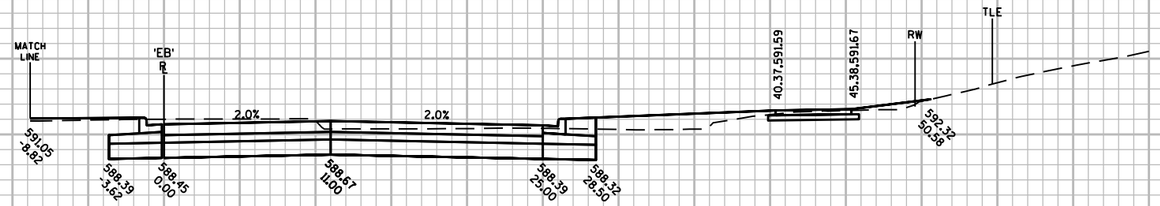
9

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42 (EB)	SHEET 985	E

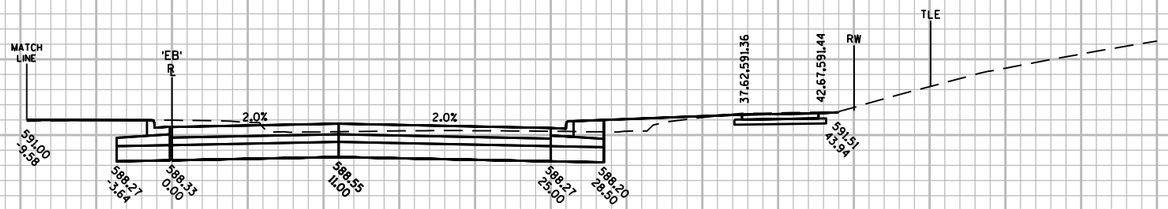
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:15 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (6) - STH 42 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49

187+25



187+00



186+75

10 FT

10 FT

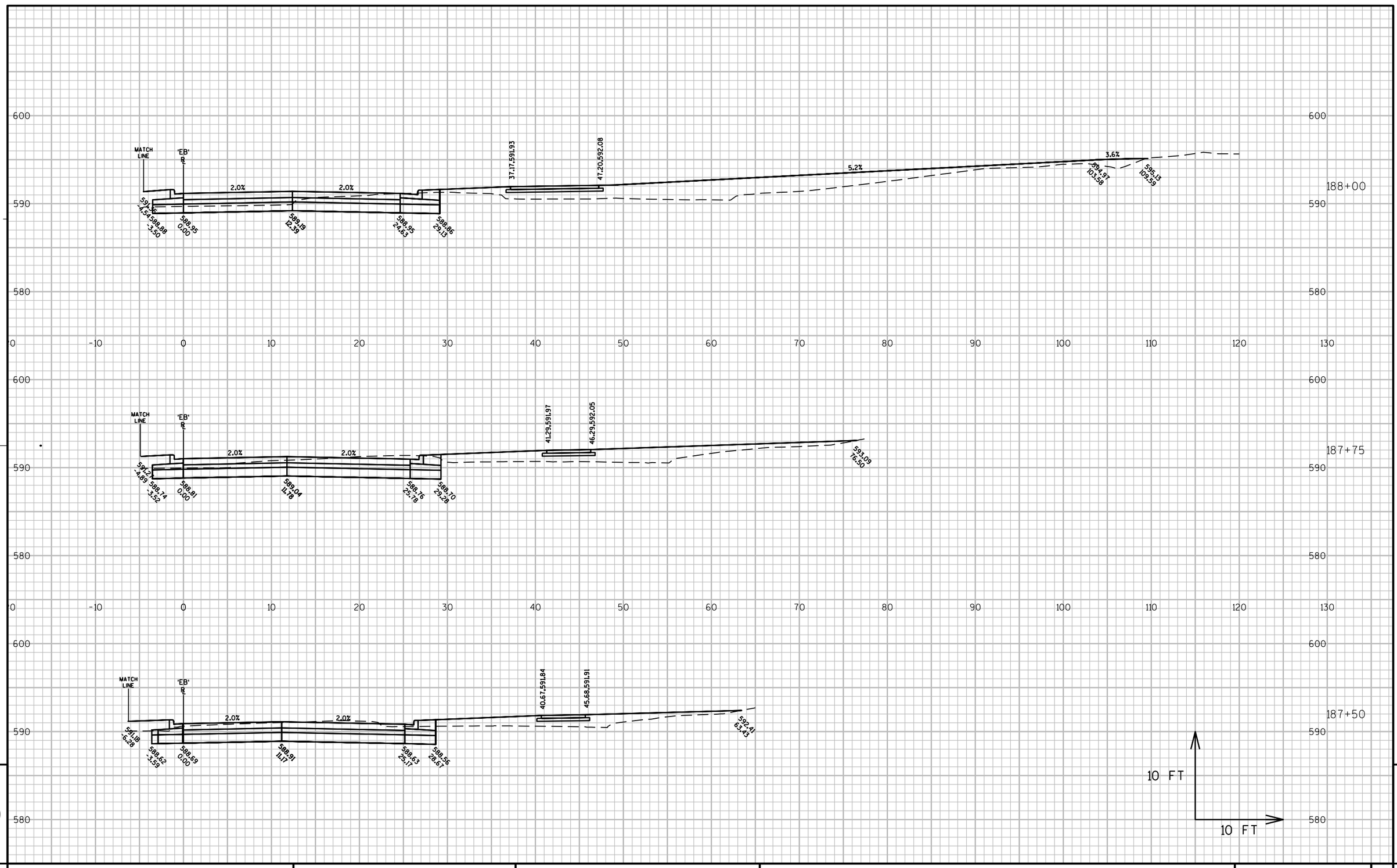
9

9

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42 (EB)	SHEET 986	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:15 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (7) - STH 42 PLOT SCALE : 1" = 10'_XREF

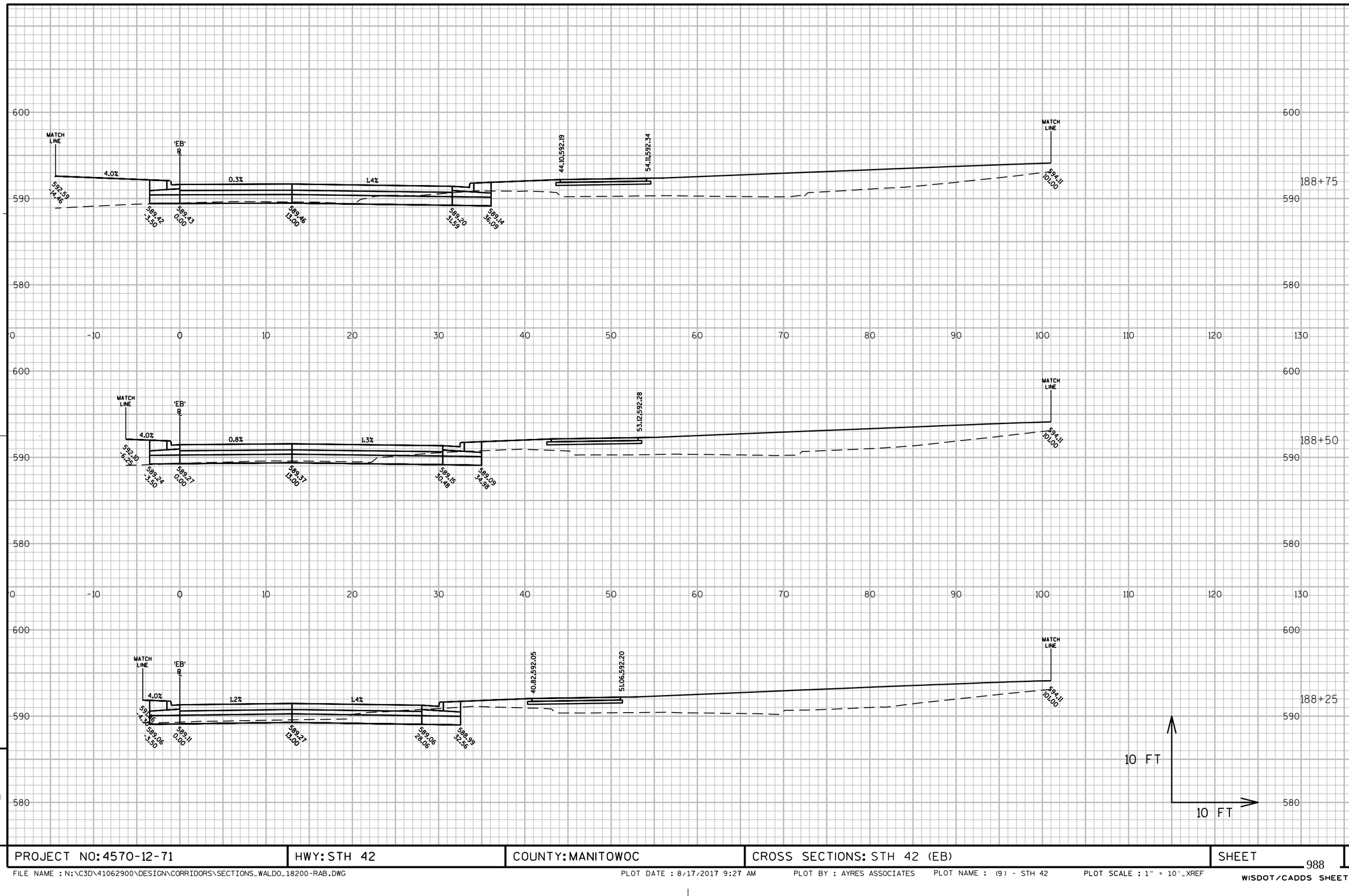
WISDOT/CADDS SHEET 49



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42 (EB)	SHEET 987	E

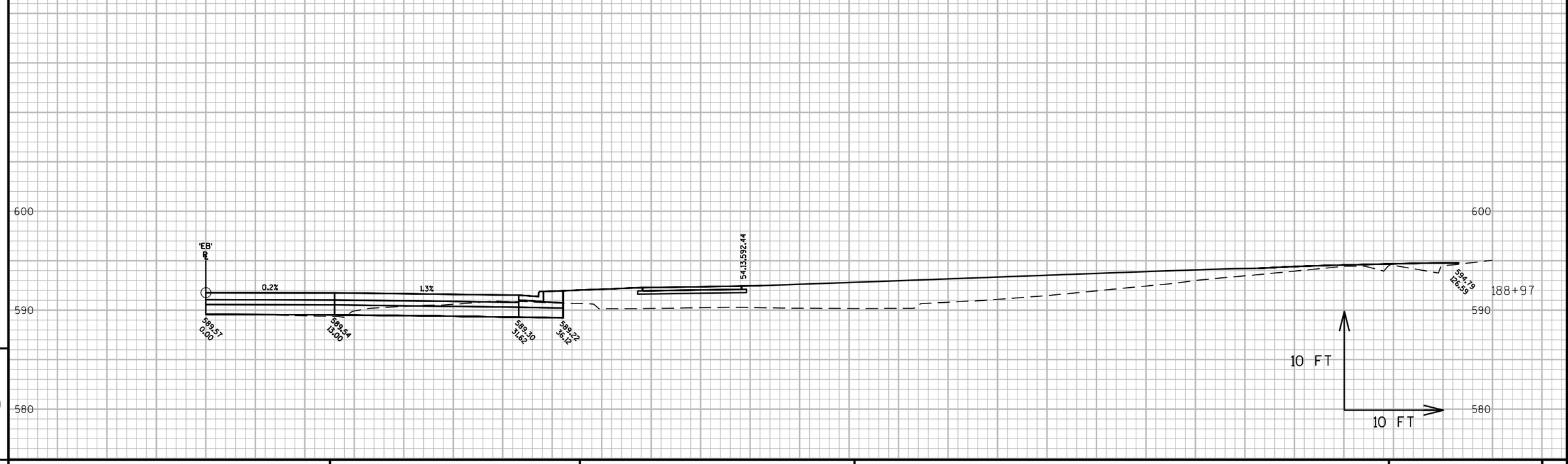
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:15 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (8) - STH 42 PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42 (EB)	SHEET 988	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/17/2017 9:27 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : (9) - STH 42 PLOT SCALE : 1" = 10'_XREF
WISDOT/CADDS SHEET 49



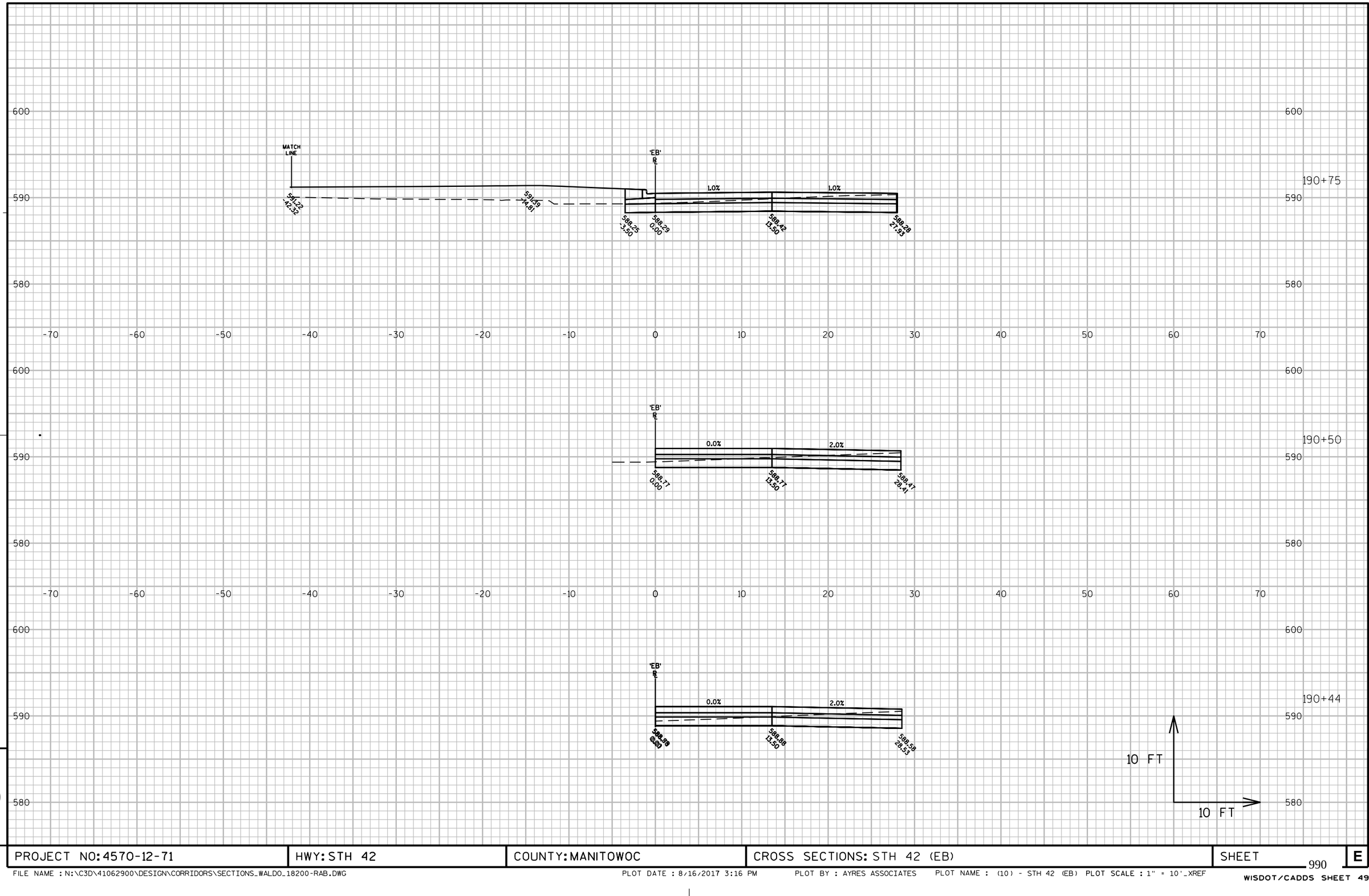
9

9

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42 (EB)	SHEET 989	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:16 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : STH 42 (EB) PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49

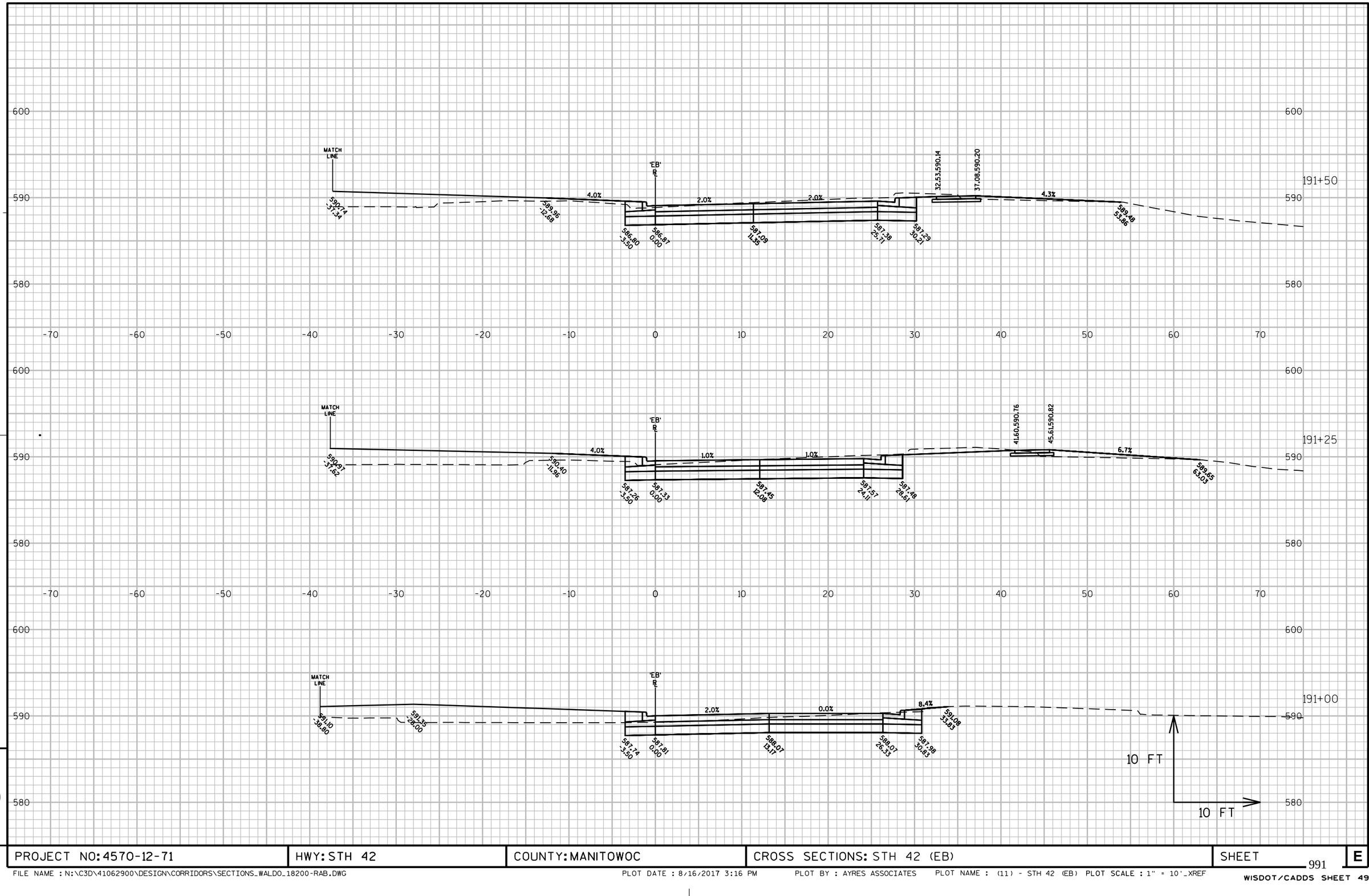


9

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42 (EB)	SHEET 990	E

9

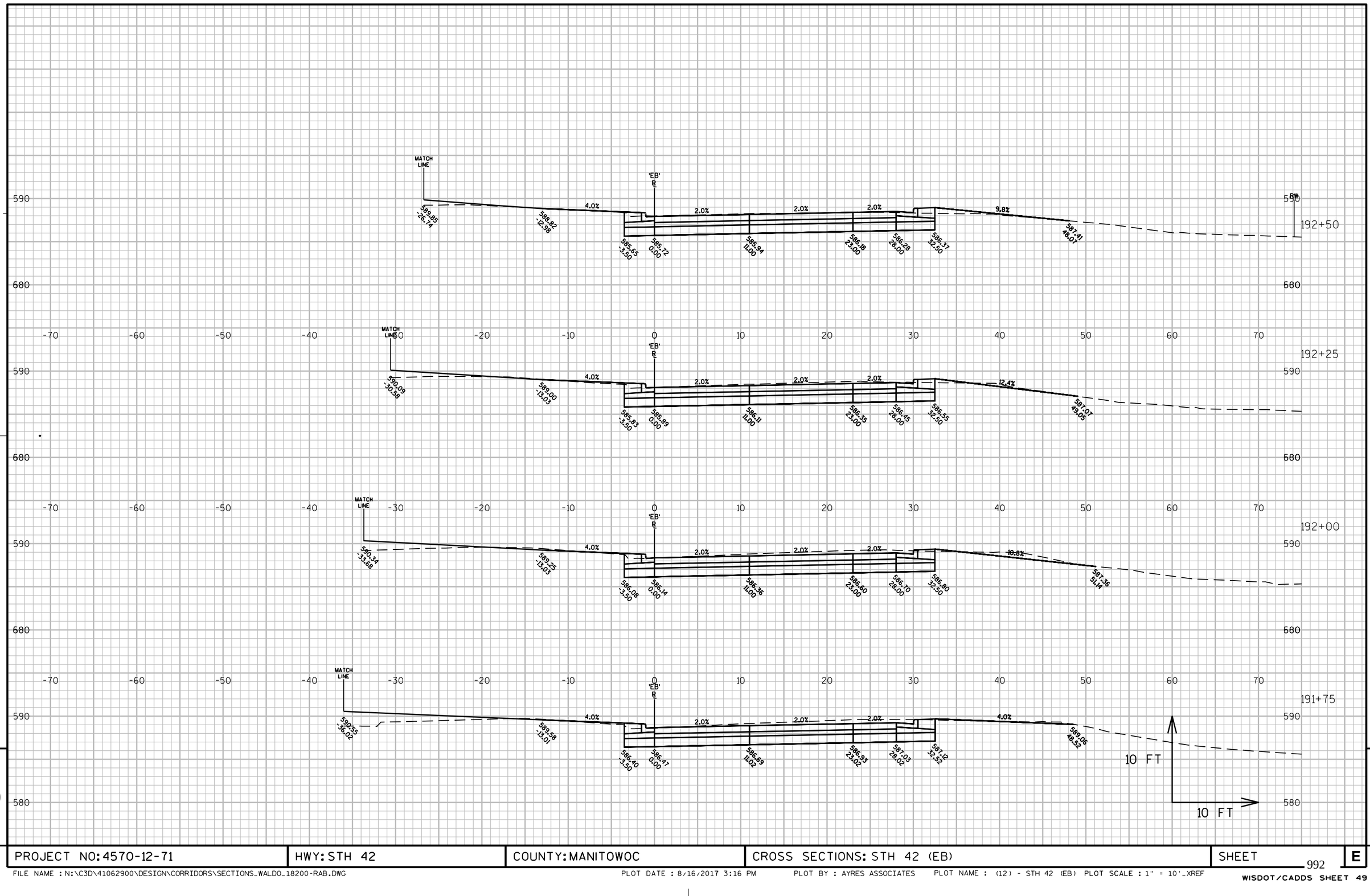
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:16 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (10) - STH 42 (EB) PLOT SCALE : 1" = 10'_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42 (EB)	SHEET 991	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:16 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (11) - STH 42 (EB) PLOT SCALE : 1" = 10'_XREF

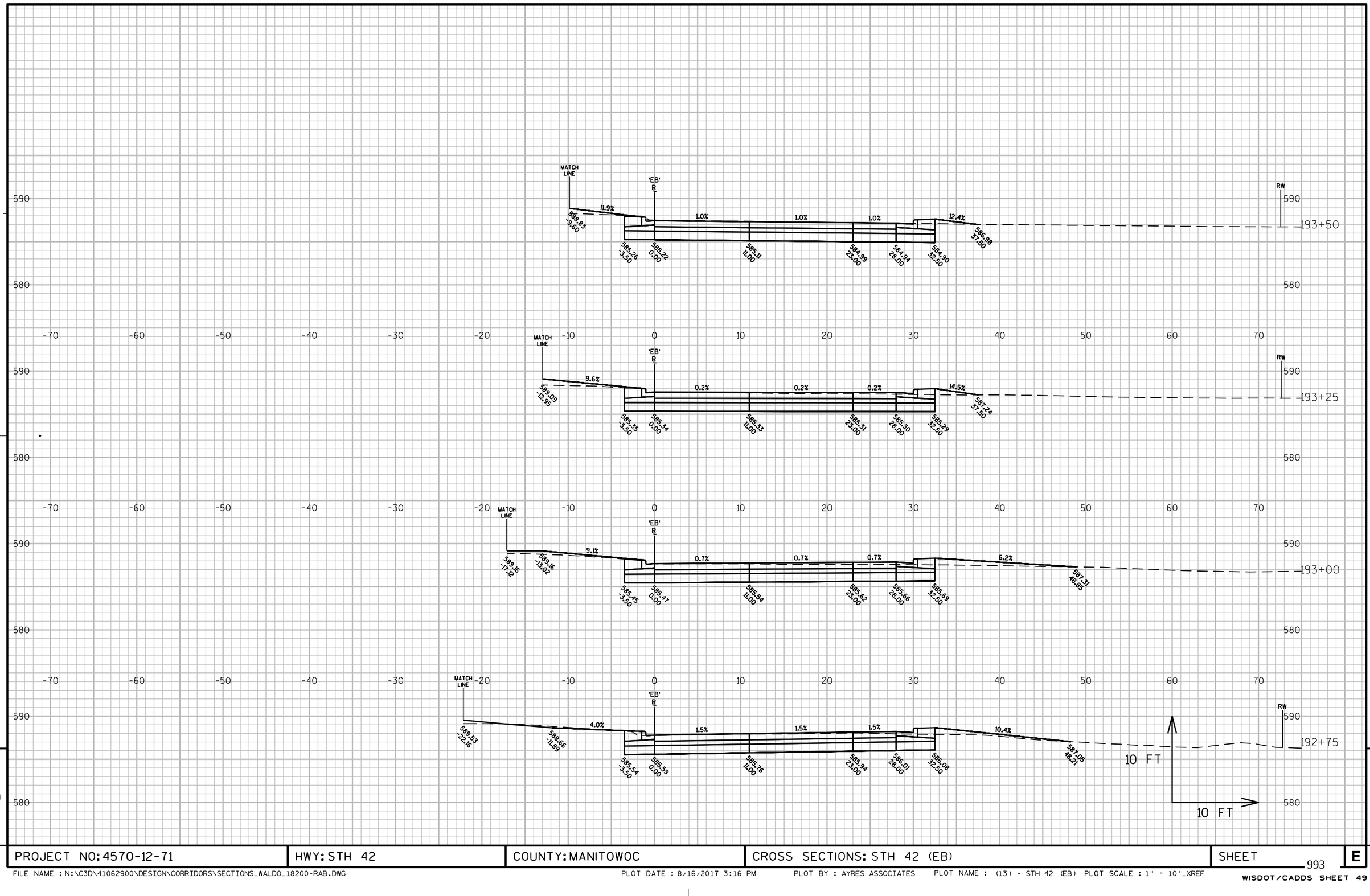
WISDOT/CADDS SHEET 49



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42 (EB)	SHEET 992	E

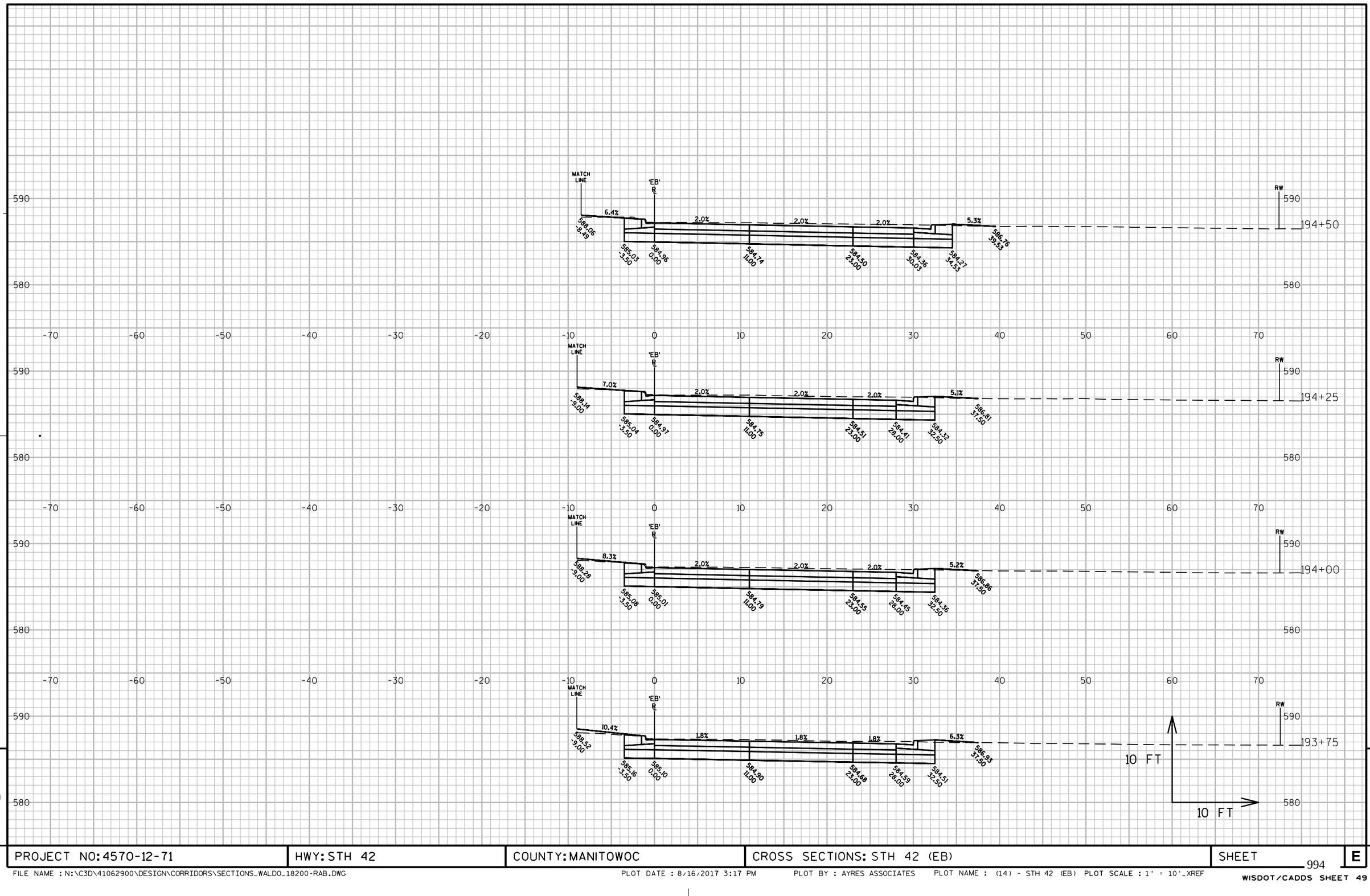
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:16 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (12) - STH 42 (EB) PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42 (EB)	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:16 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (13) - STH 42 (EB) PLOT SCALE : 1" = 10'_XREF



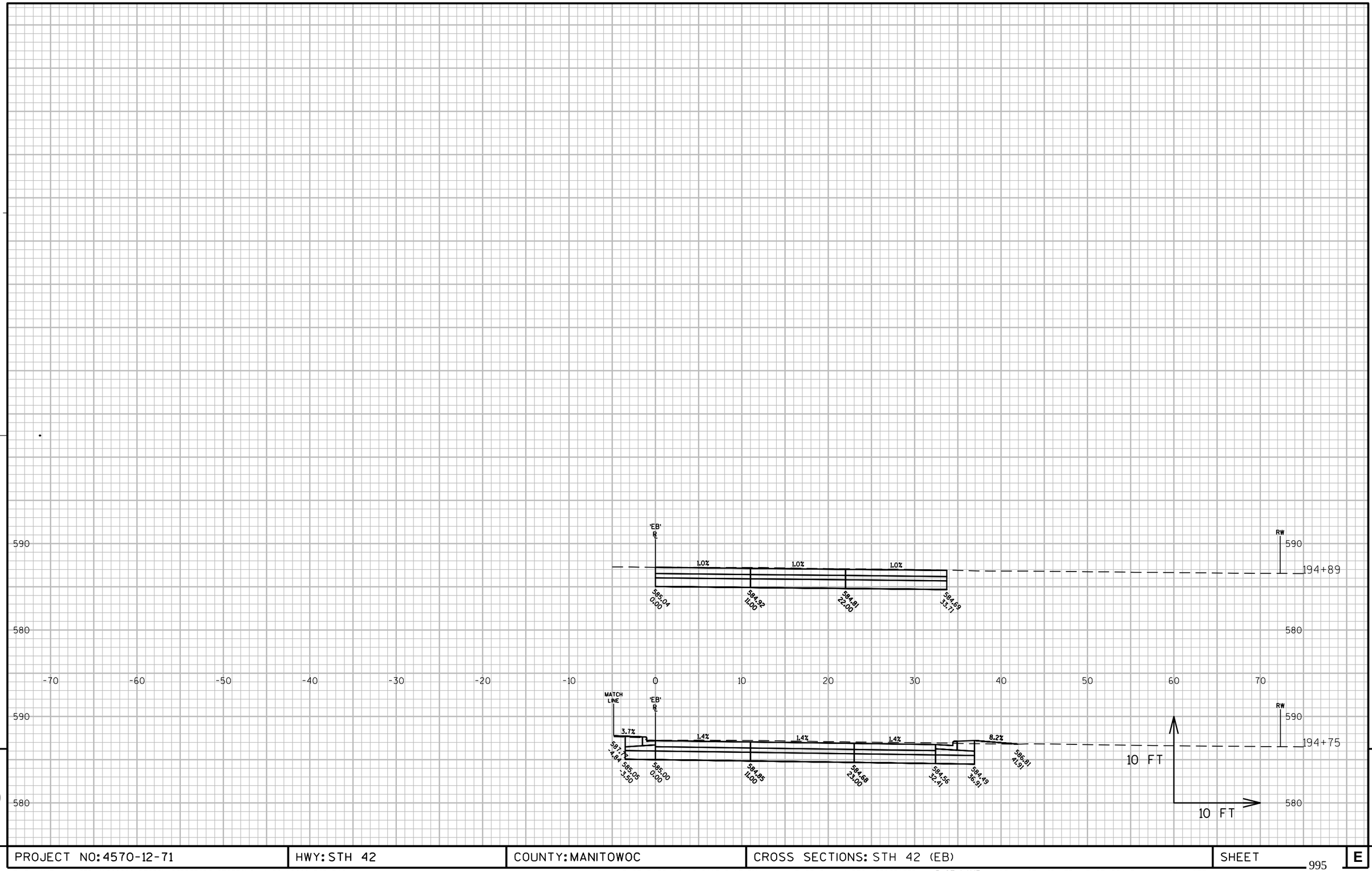
9

9

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42 (EB)	SHEET 994	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:17 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (14) - STH 42 (EB) PLOT SCALE : 1" = 10'_XREF

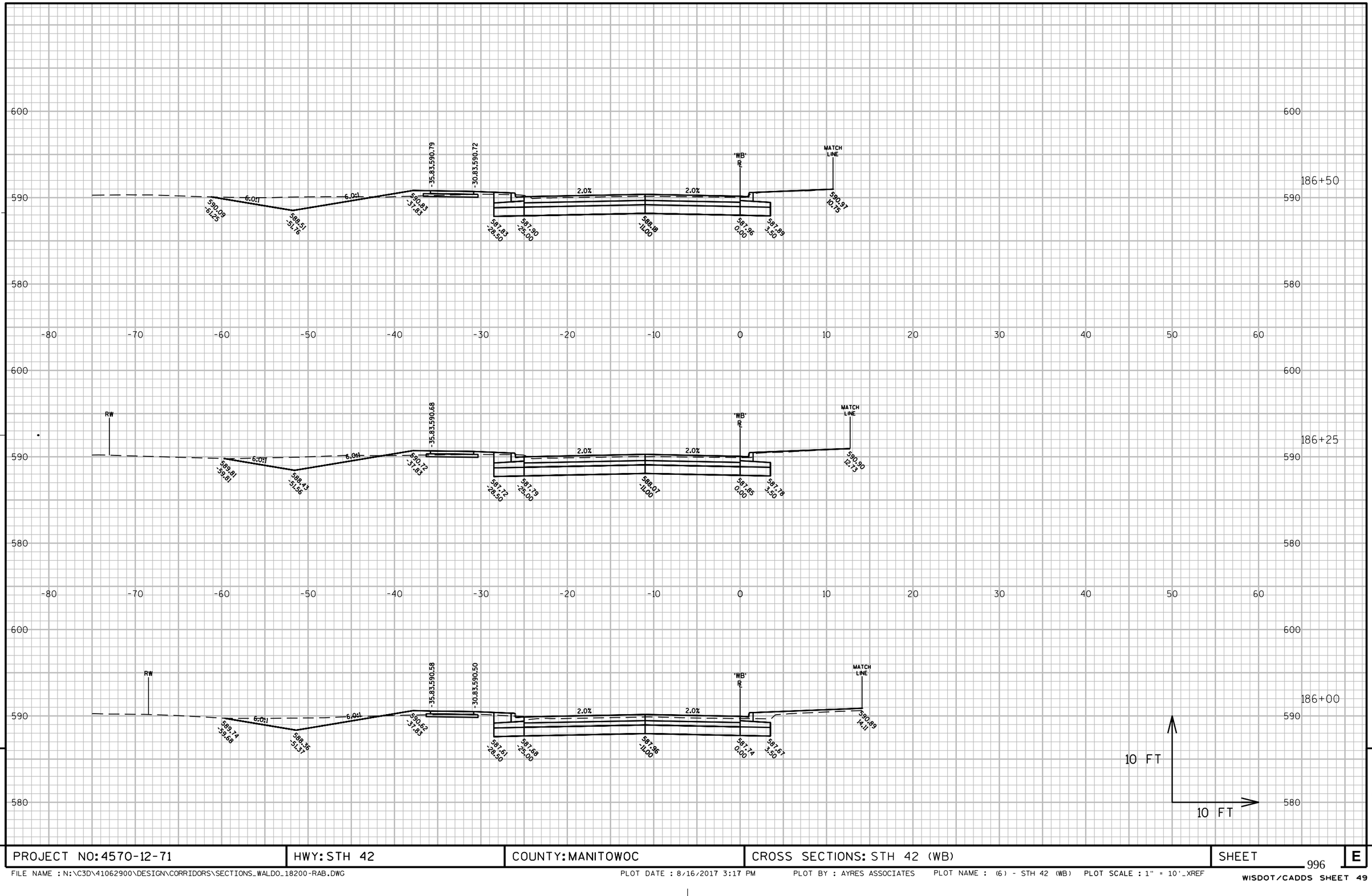
WISDOT/CADDS SHEET 49



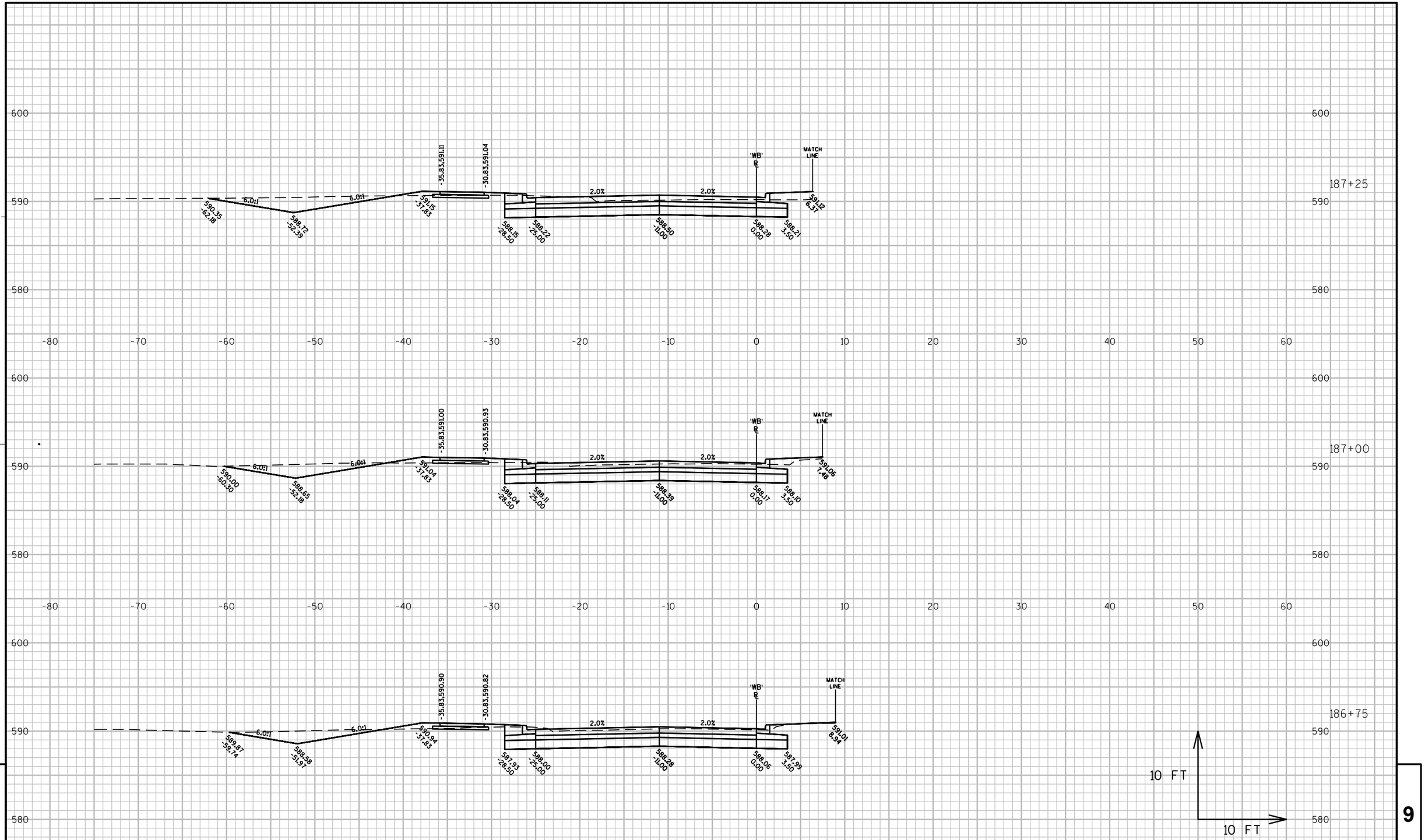
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42 (EB)	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:17 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (15) - STH 42 (EB) PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



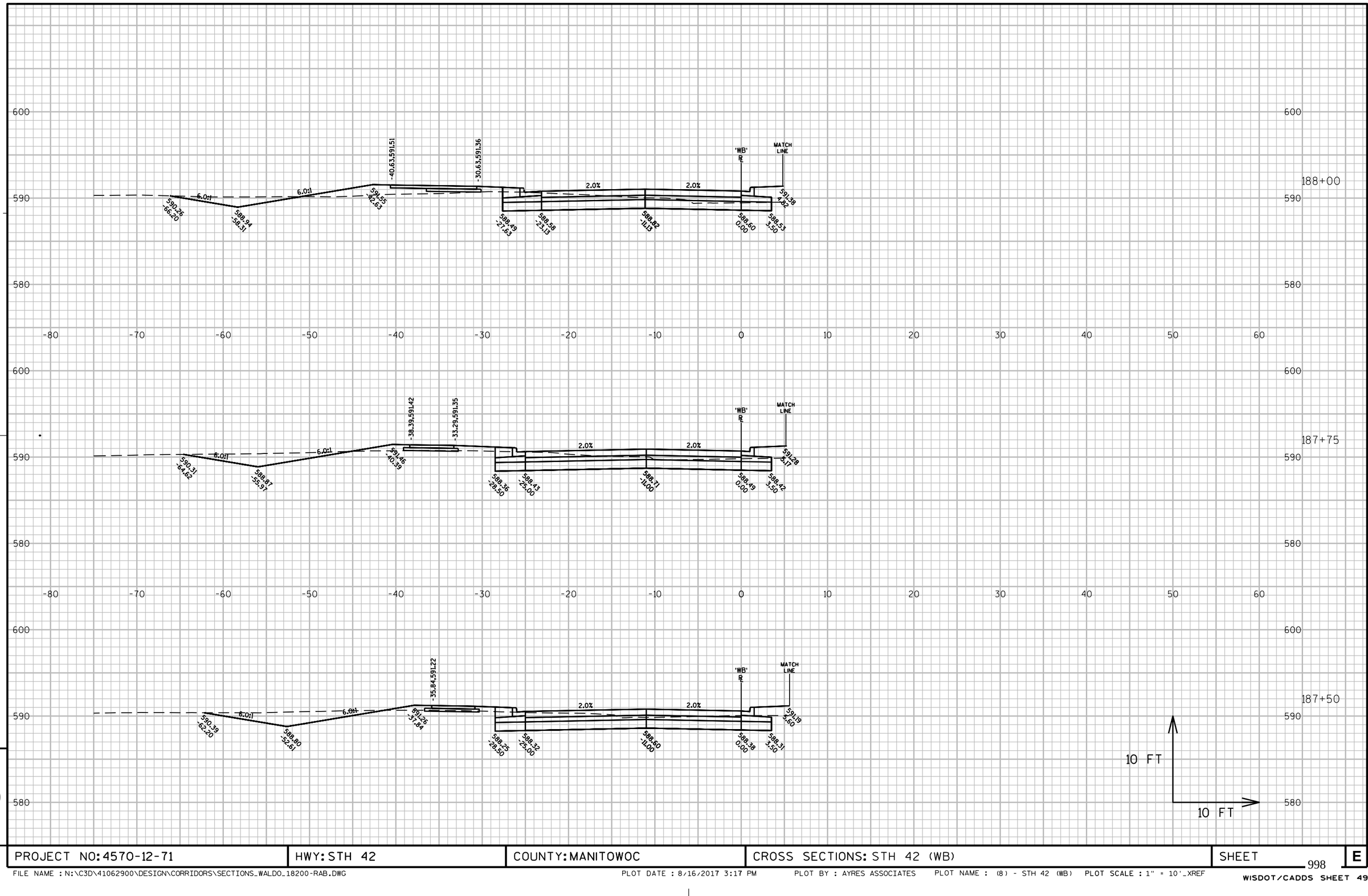
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42 (WB)	SHEET 996	E



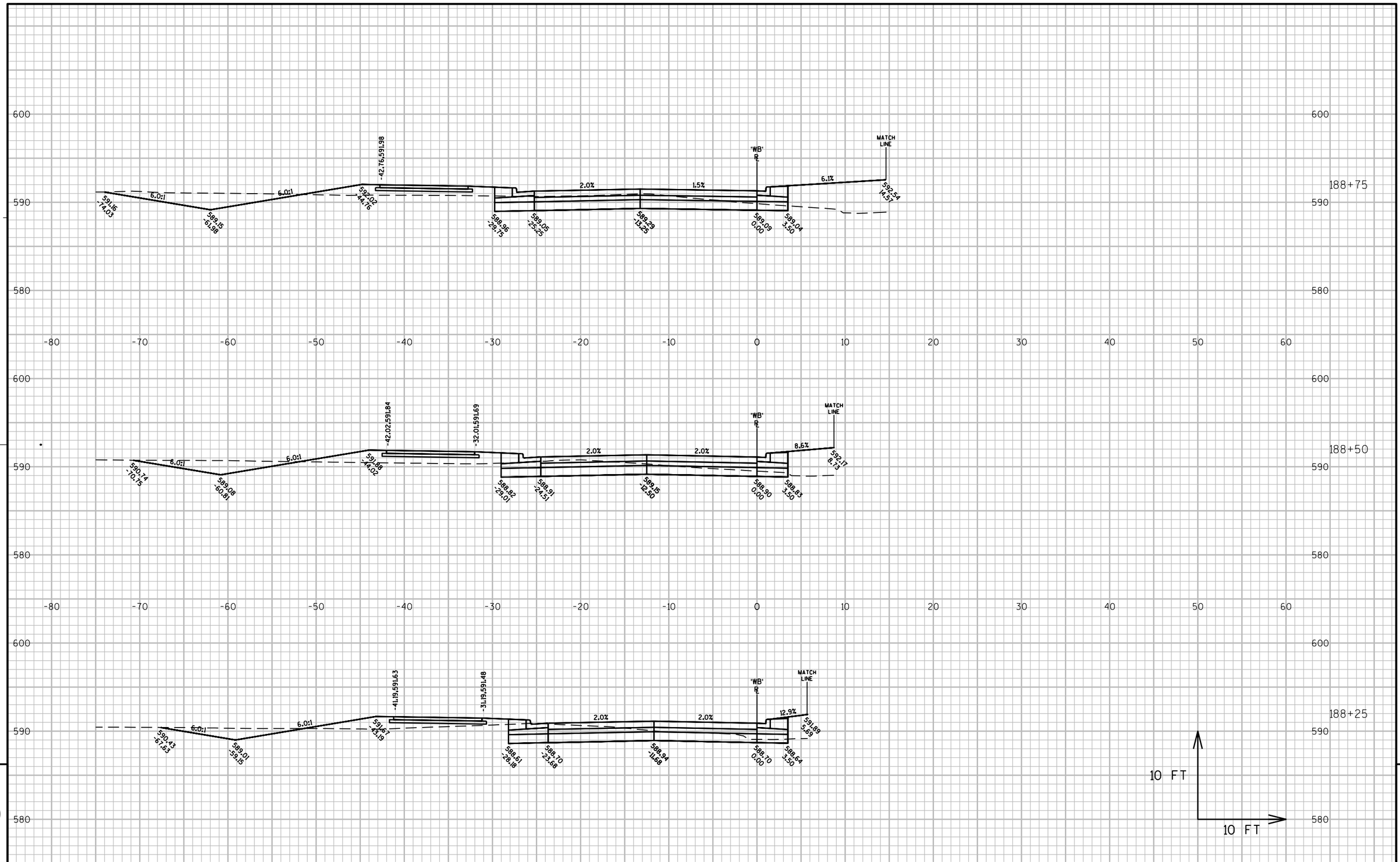
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42 (WB)	SHEET 997	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:17 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (7) - STH 42 (WB) PLOT SCALE : 1" = 10'_XREF

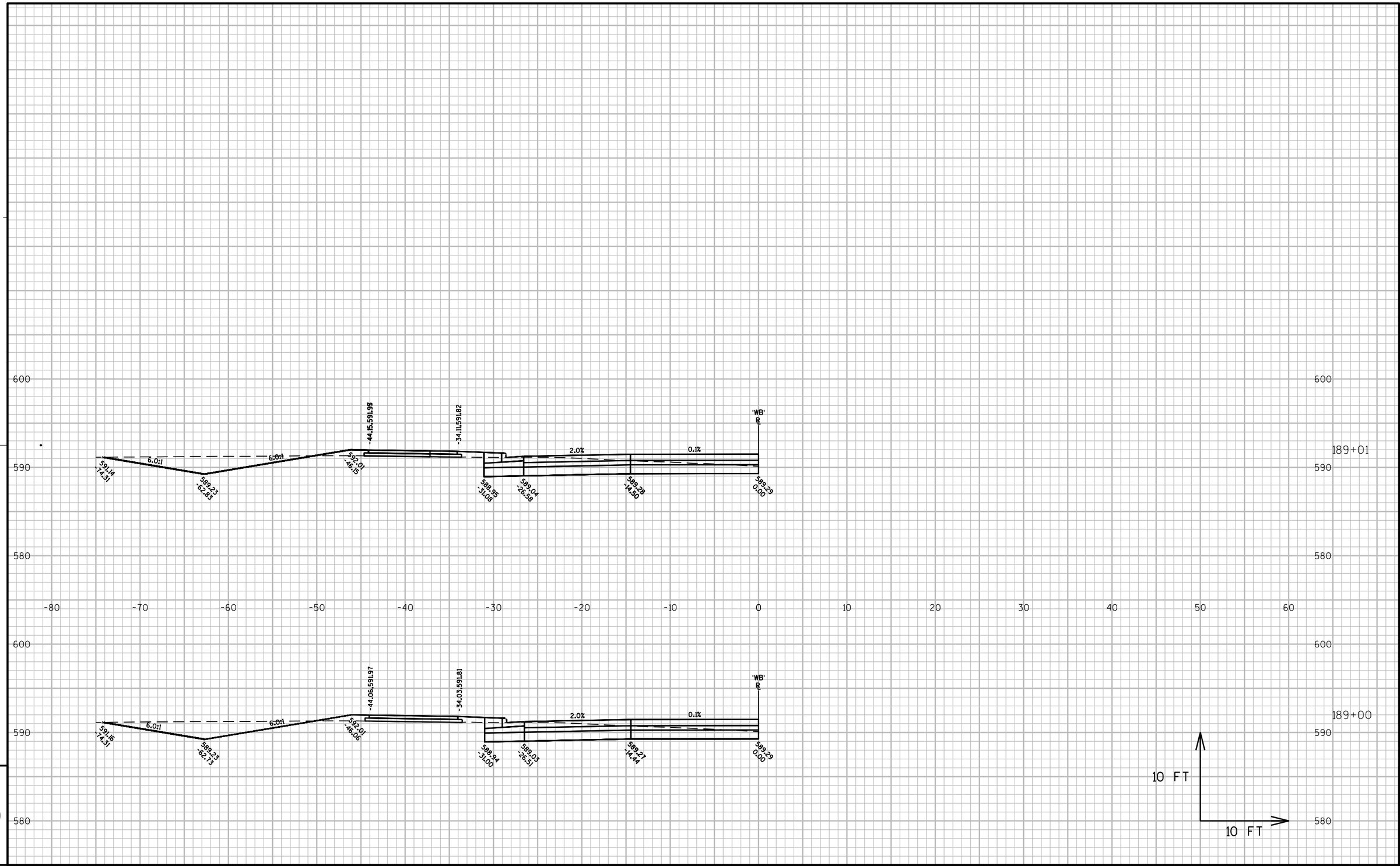
WISDOT/CADDS SHEET 49



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42 (WB)	SHEET 998	E



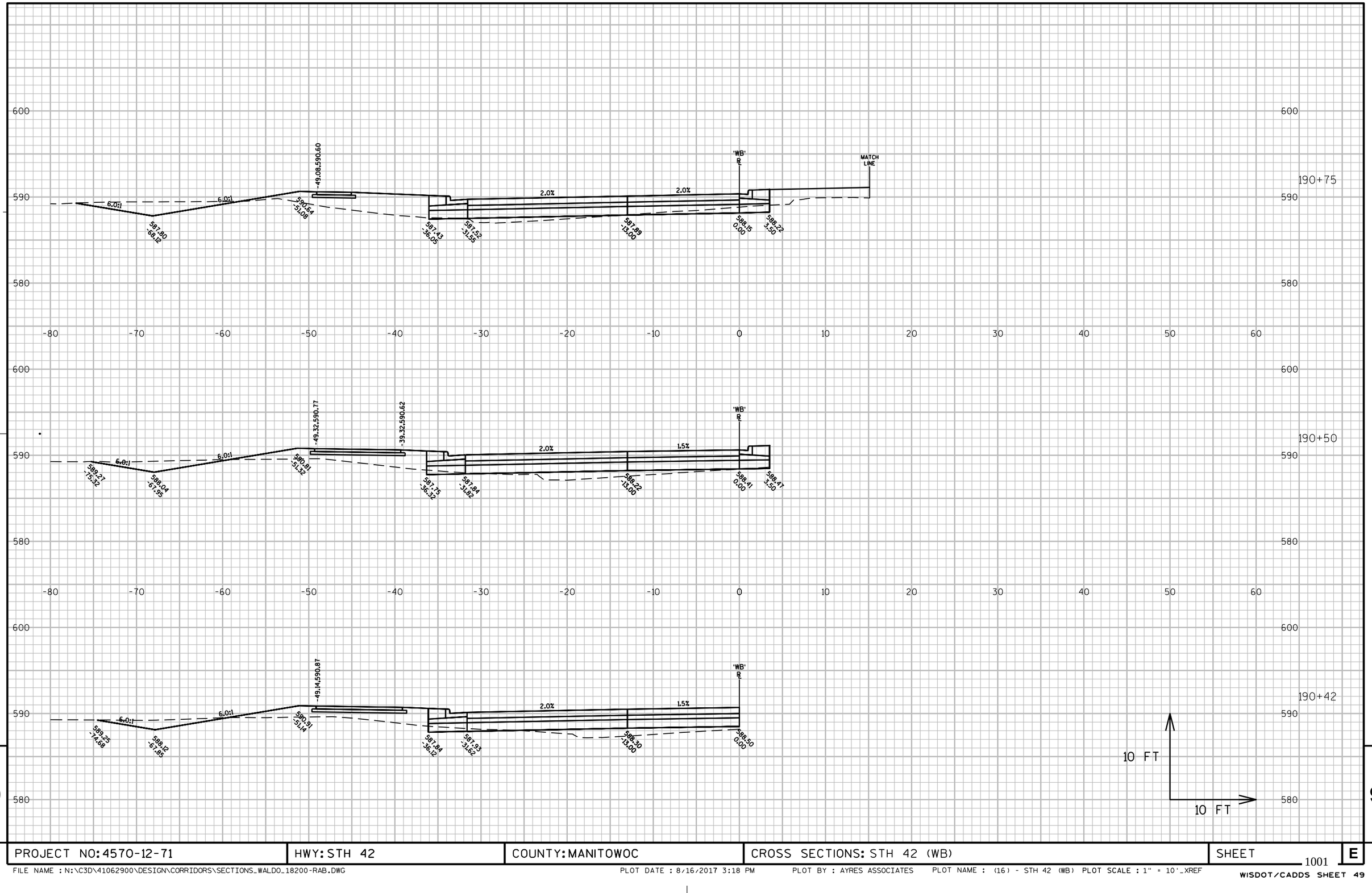
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42 (WB)	SHEET 999	E



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42 (WB)	SHEET 1000	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:18 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (10) - STH 42 (WB) PLOT SCALE : 1" = 10'_XREF

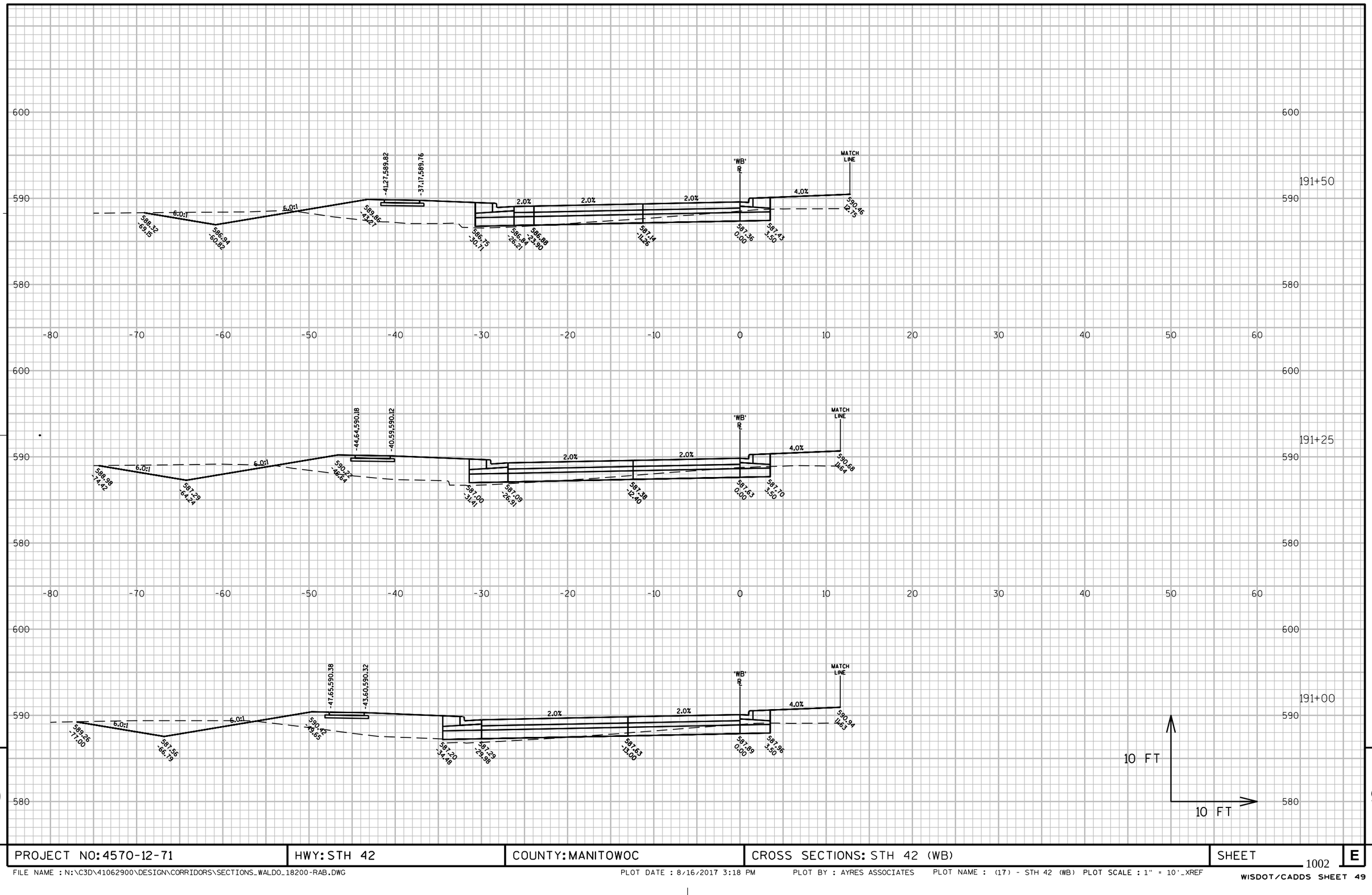
WISDOT/CADDS SHEET 49



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42 (WB)	SHEET 1001	E

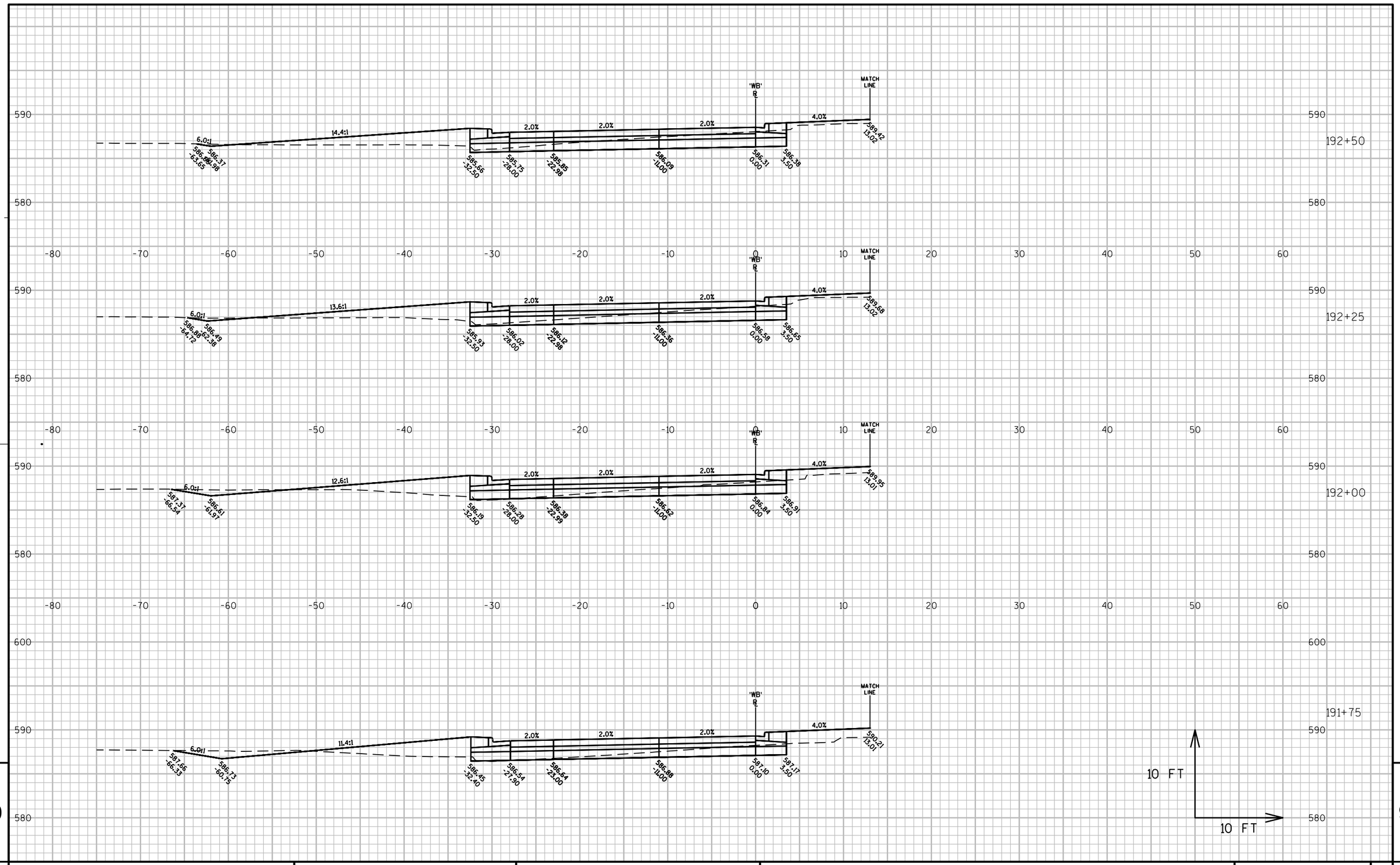
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:18 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (16) - STH 42 (WB) PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49

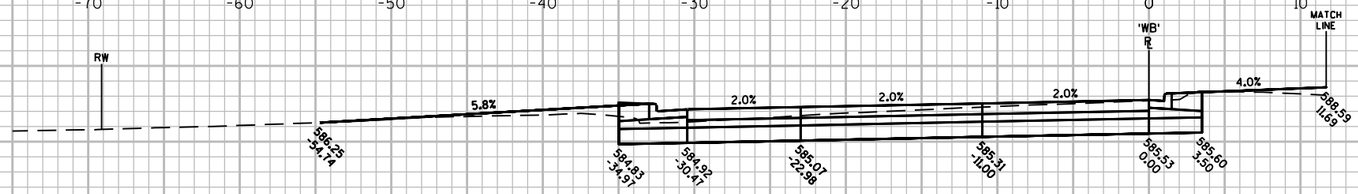


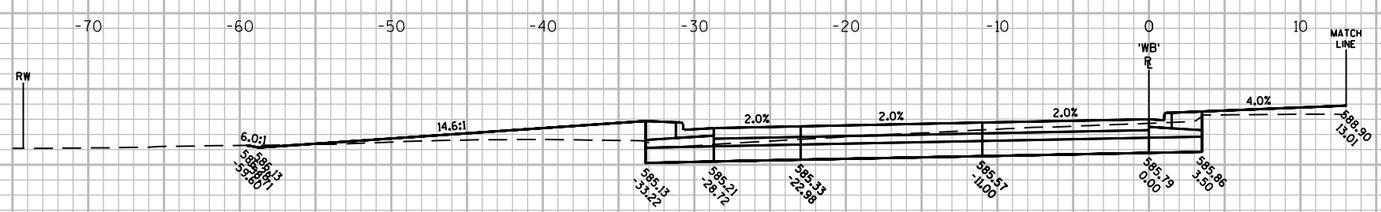
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42 (WB)	SHEET 1002	E

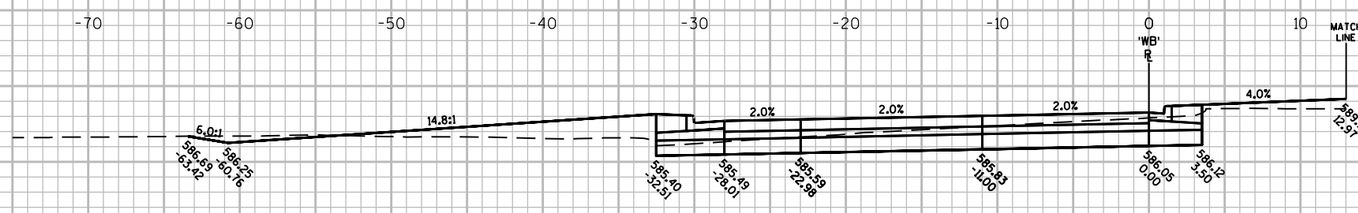
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:18 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (17) - STH 42 (WB) PLOT SCALE : 1" = 10'_XREF
WISDOT/CADDS SHEET 49

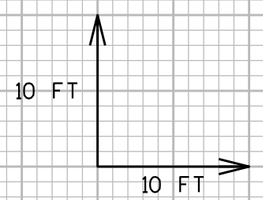


PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42 (WB)	SHEET 1003	E









193+50

193+25

193+00

192+75

9

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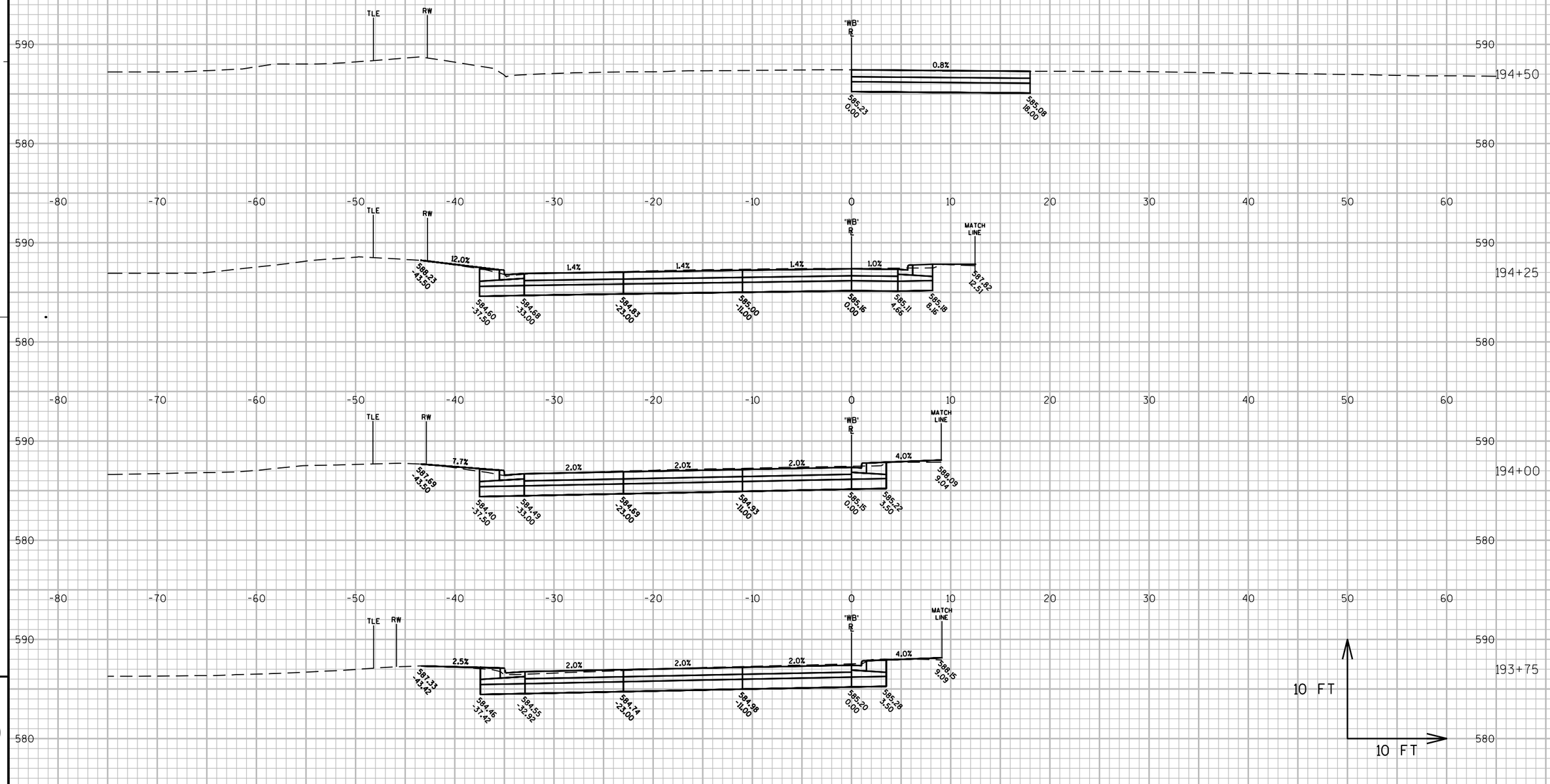
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42 (WB)	SHEET 1004	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:18 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (19) - STH 42 (WB) PLOT SCALE : 1" = 10'_XREF



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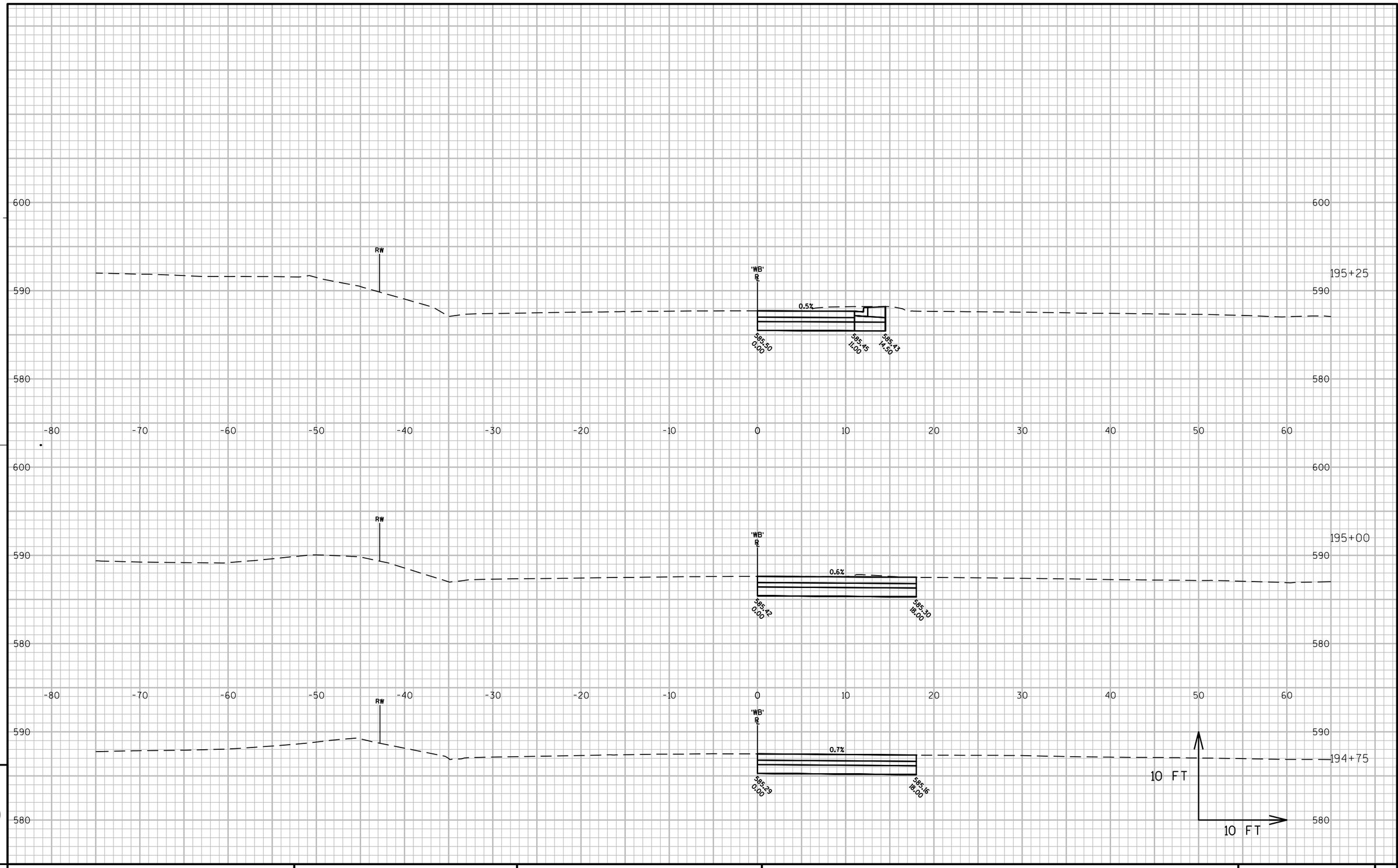
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42 (WB)	SHEET 1005	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:18 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (20) - STH 42 (WB) PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



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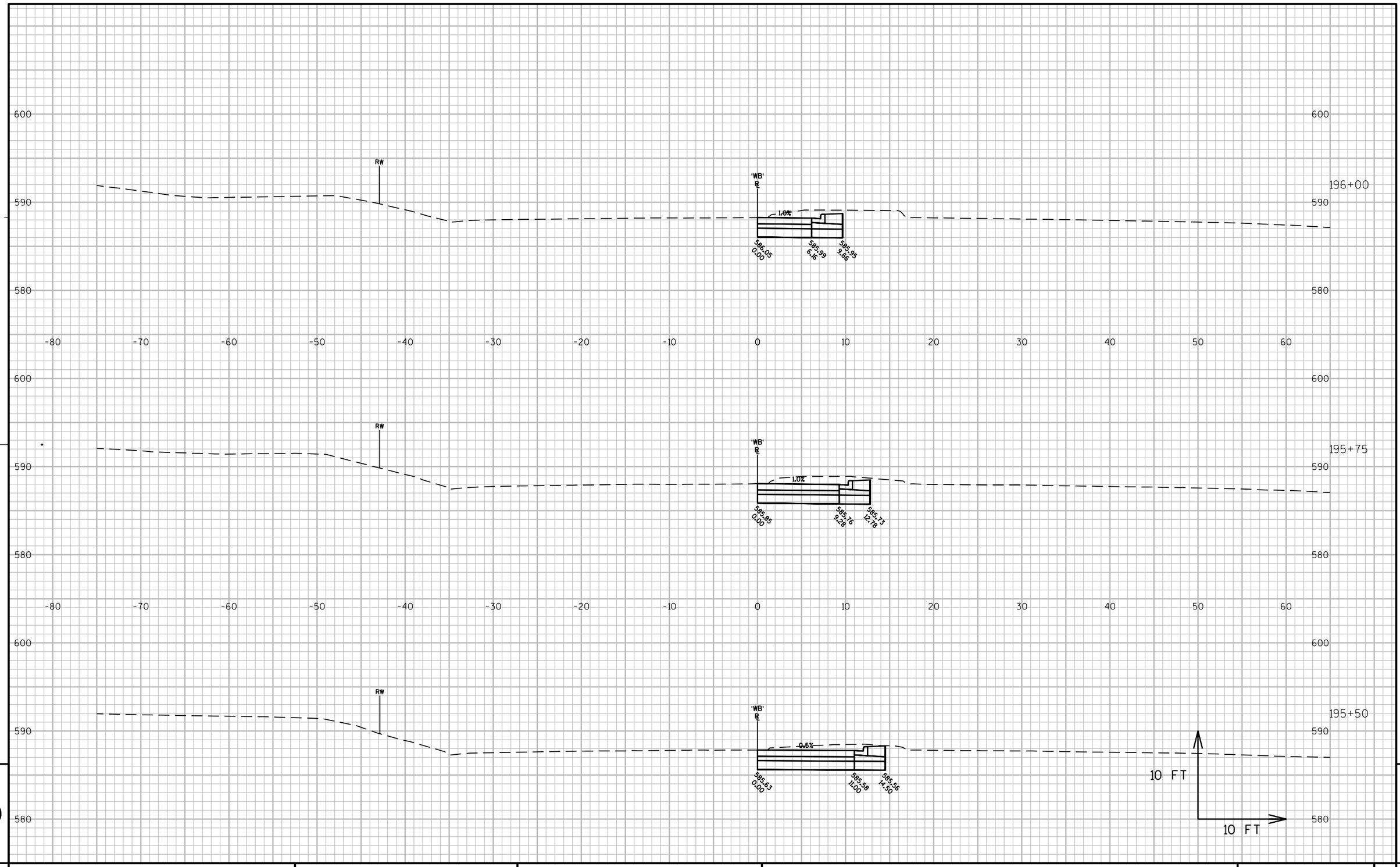
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42 (WB)	SHEET 1006	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:18 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (21) - STH 42 (WB) PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



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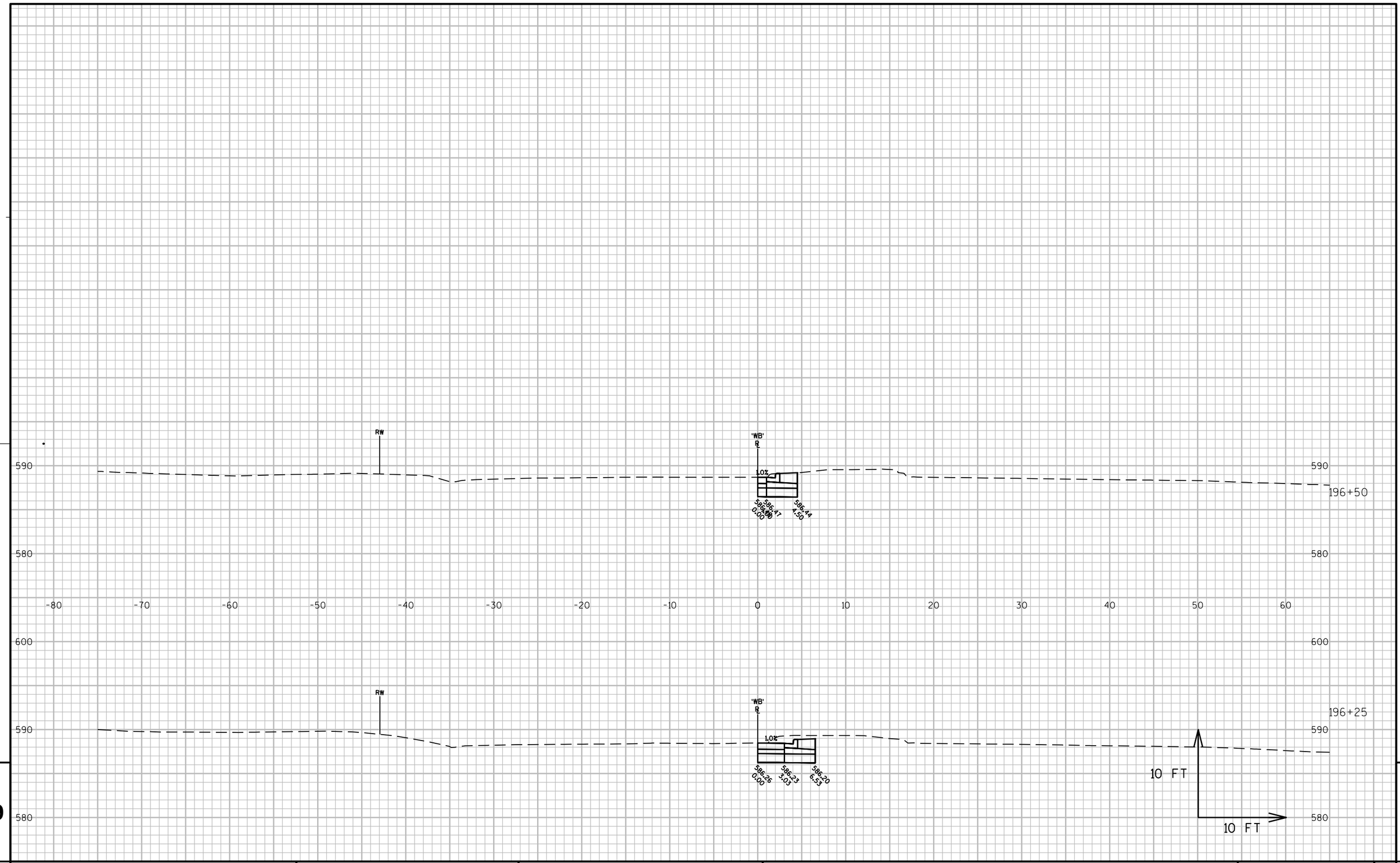
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42 (WB)	SHEET	E

1007

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:18 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (22) - STH 42 (WB) PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



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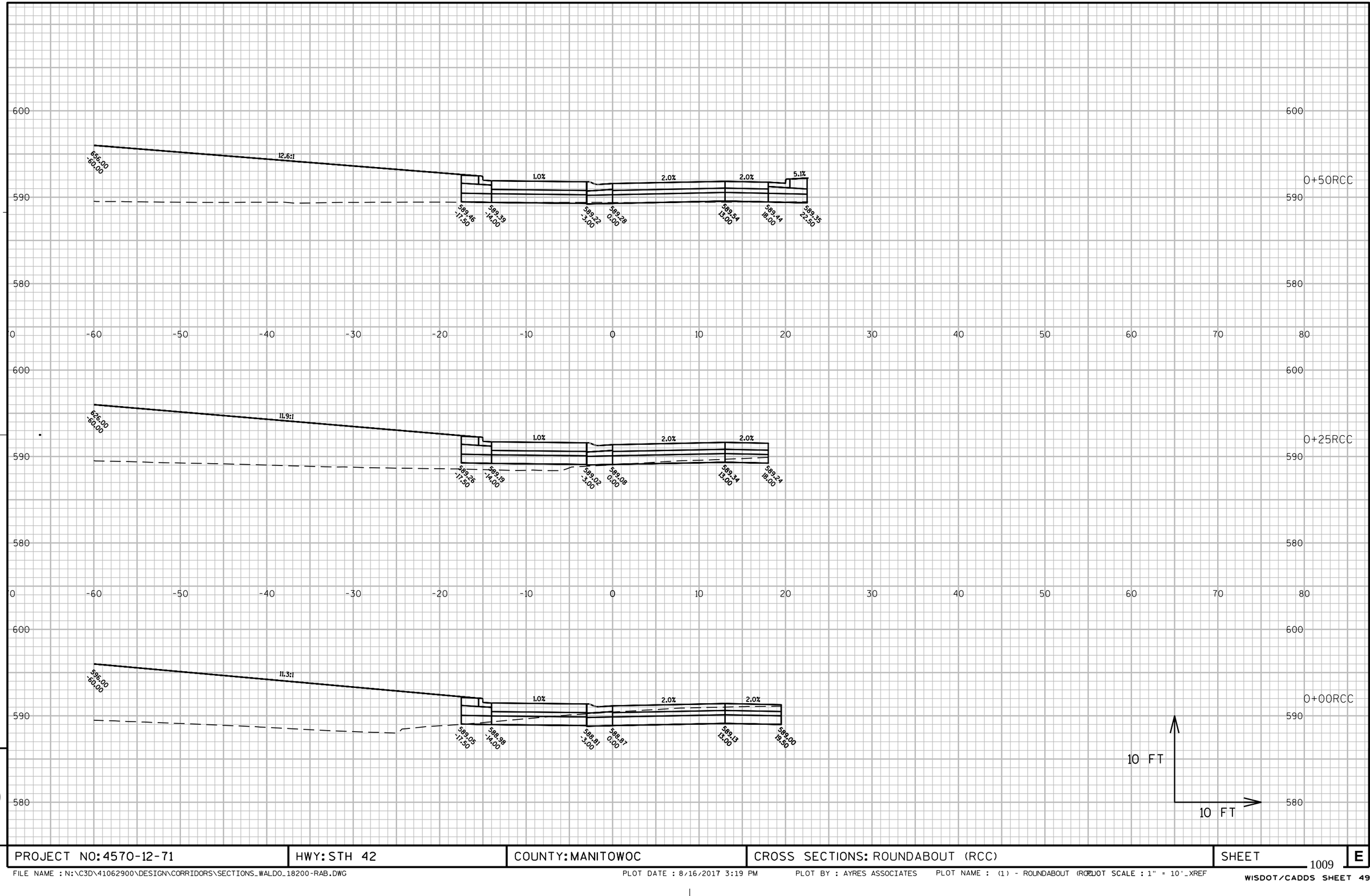
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: STH 42 (WB)	SHEET 1008	E



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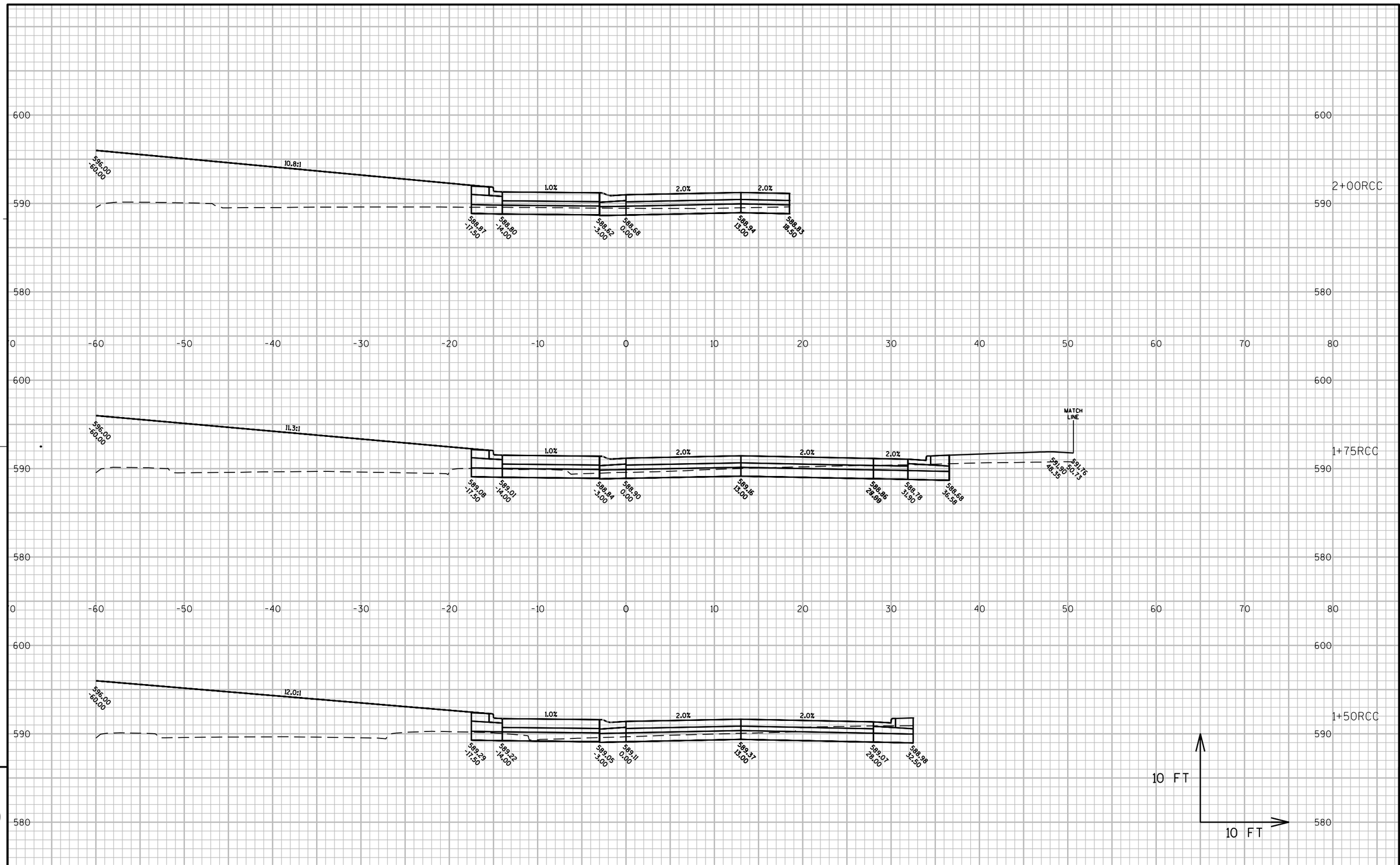
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: ROUNDABOUT (RCC)	SHEET 1009	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:19 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1) - ROUNDABOUT (RCC).DWG PLOT SCALE : 1" = 10'_XREF

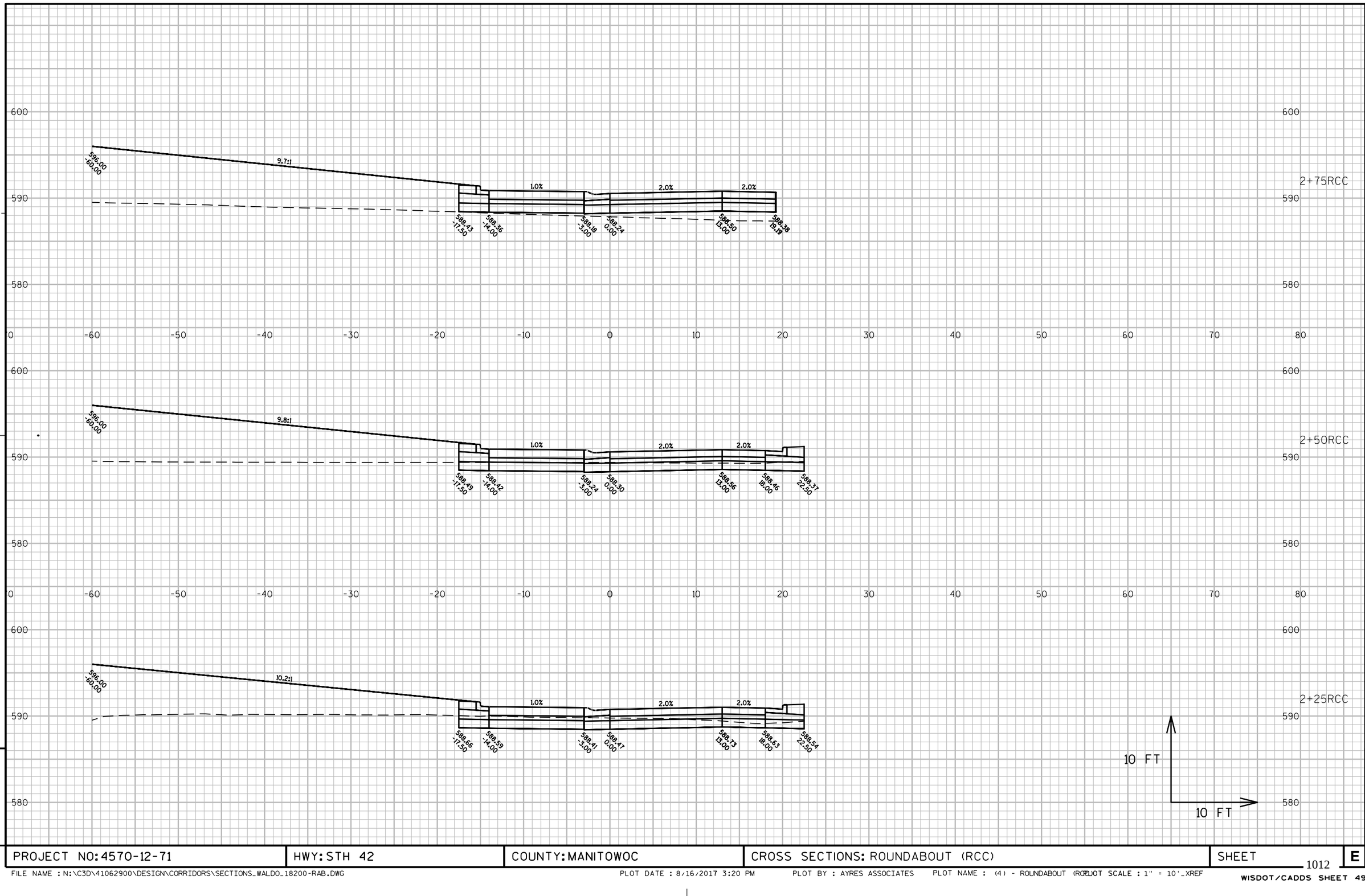
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: ROUNDABOUT (RCC)	SHEET 1010	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:19 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (2) - ROUNDABOUT (RCC).DWG PLOT SCALE : 1" = 10'_XREF

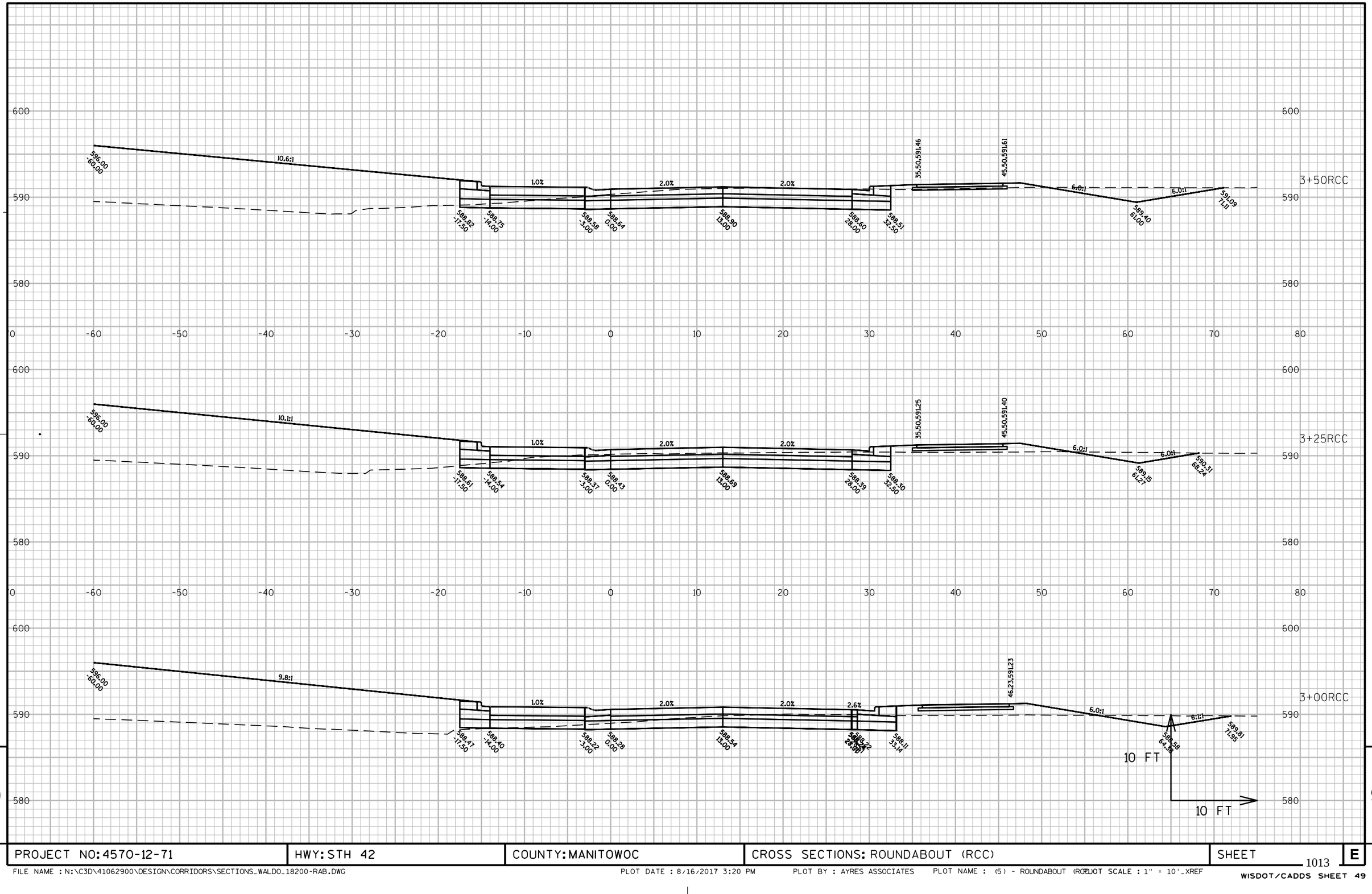
WISDOT/CADDS SHEET 49



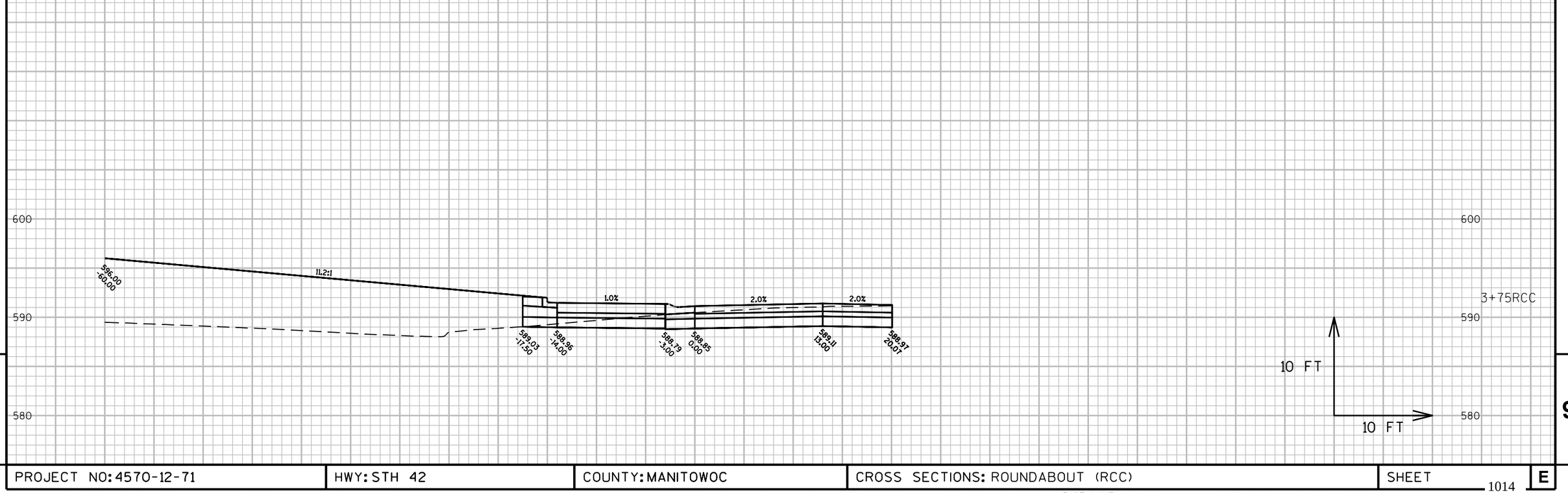
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: ROUNDABOUT (RCC)	SHEET 1011	E



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: ROUNDABOUT (RCC)	SHEET 1012	E



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: ROUNDABOUT (RCC)	SHEET 1013	E



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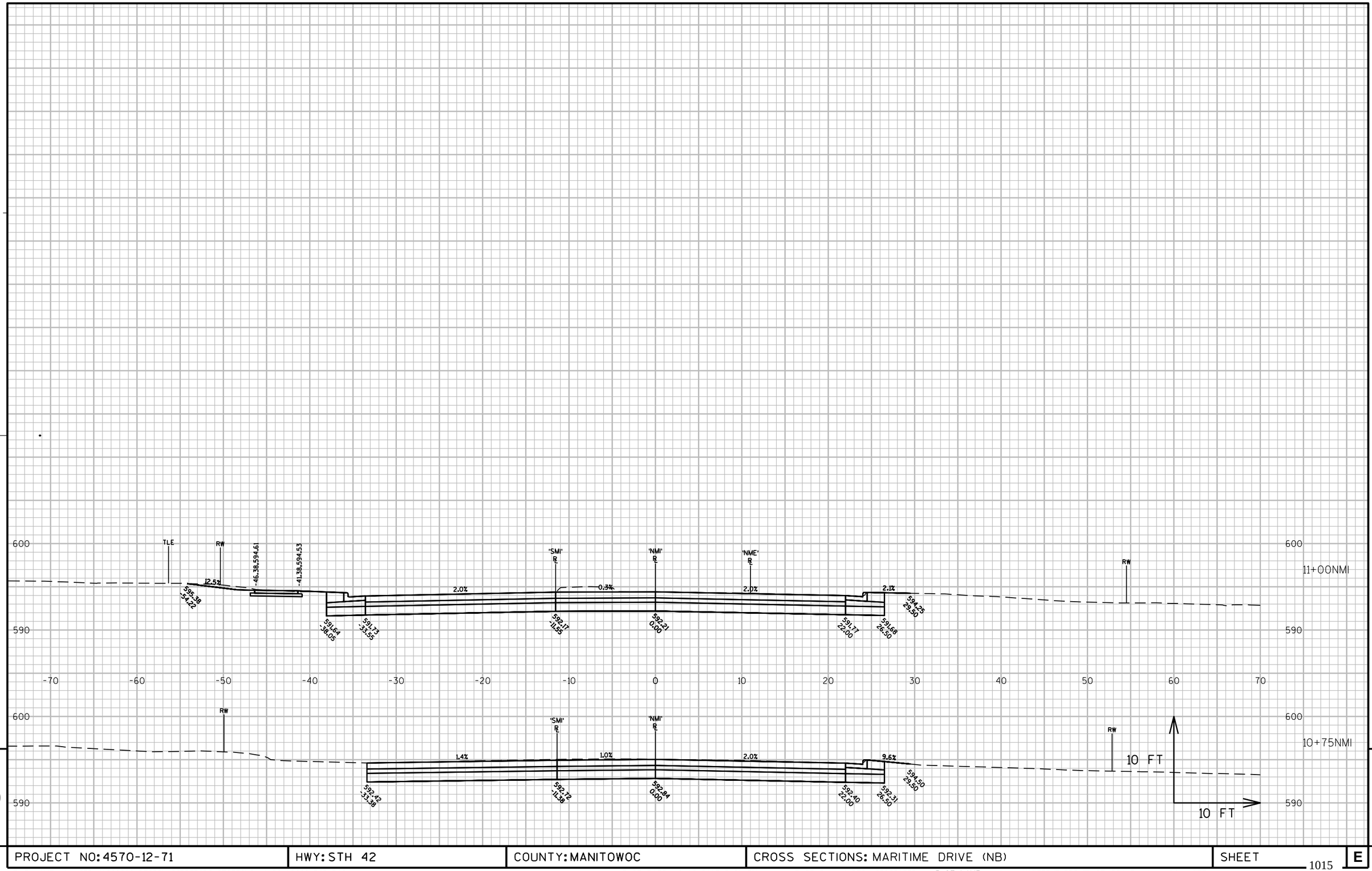
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: ROUNDABOUT (RCC)	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:20 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (6) - ROUNDABOUT (RCC).DWG PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



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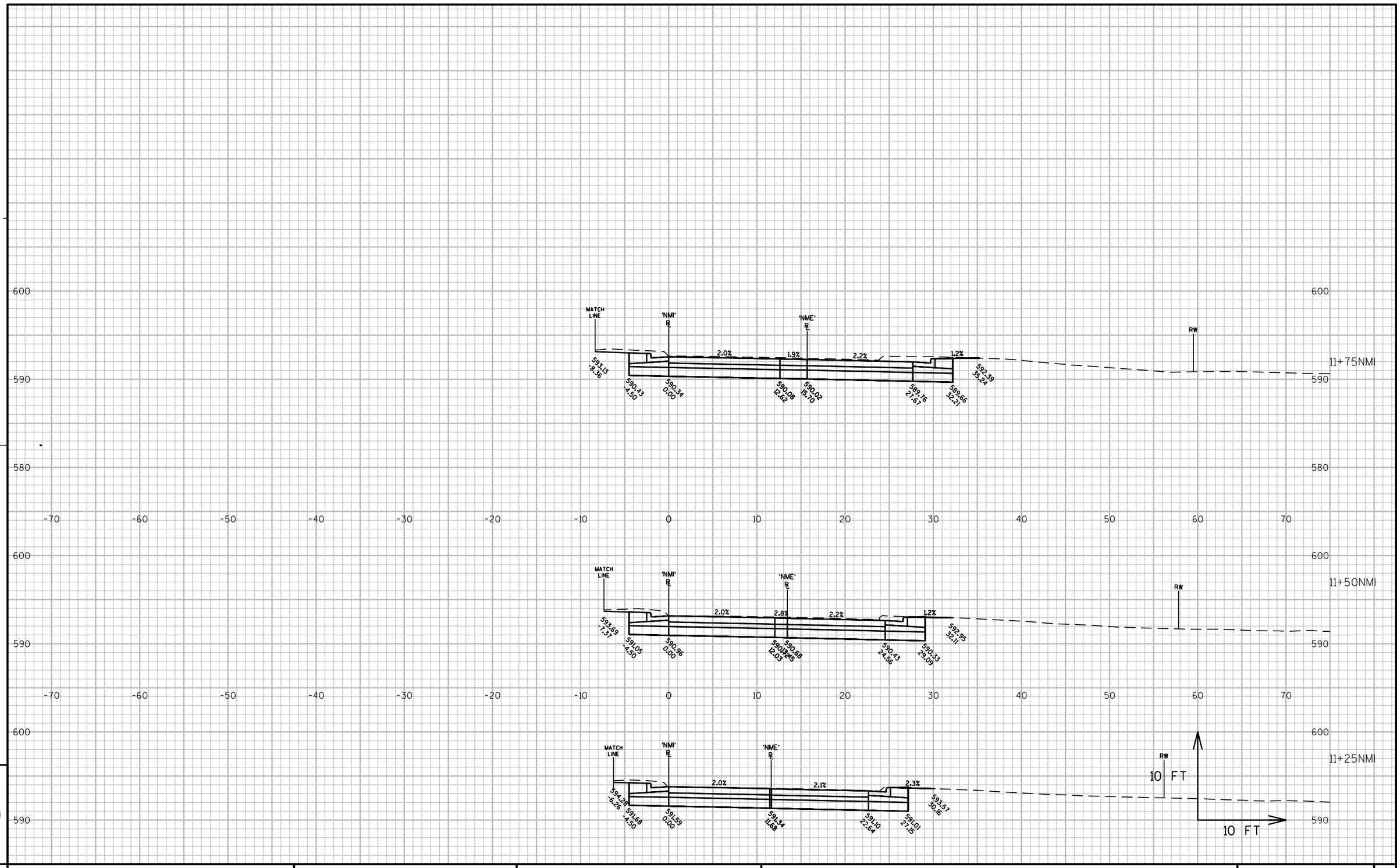
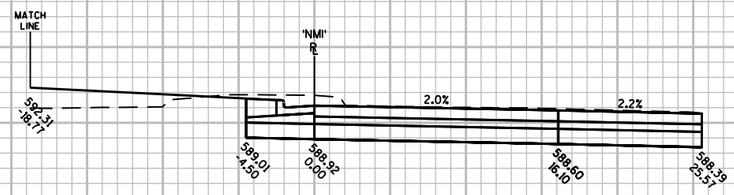
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: MARITIME DRIVE (NB)	SHEET 1015	E



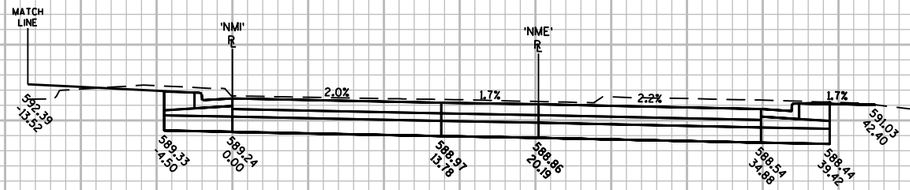
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: MARITIME DRIVE (NB)	SHEET 1016	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:21 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1) - MARITIME DRIVE.PLT PLOT SCALE : 1" = 10'_XREF

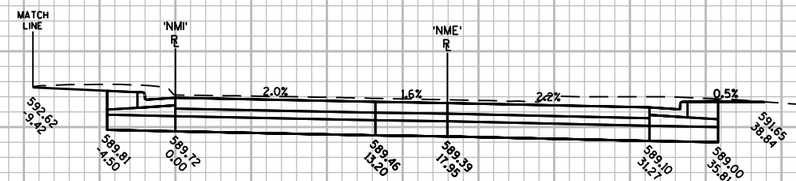
WISDOT/CADDS SHEET 49



12+50NMI



12+25NMI



12+00NMI

9

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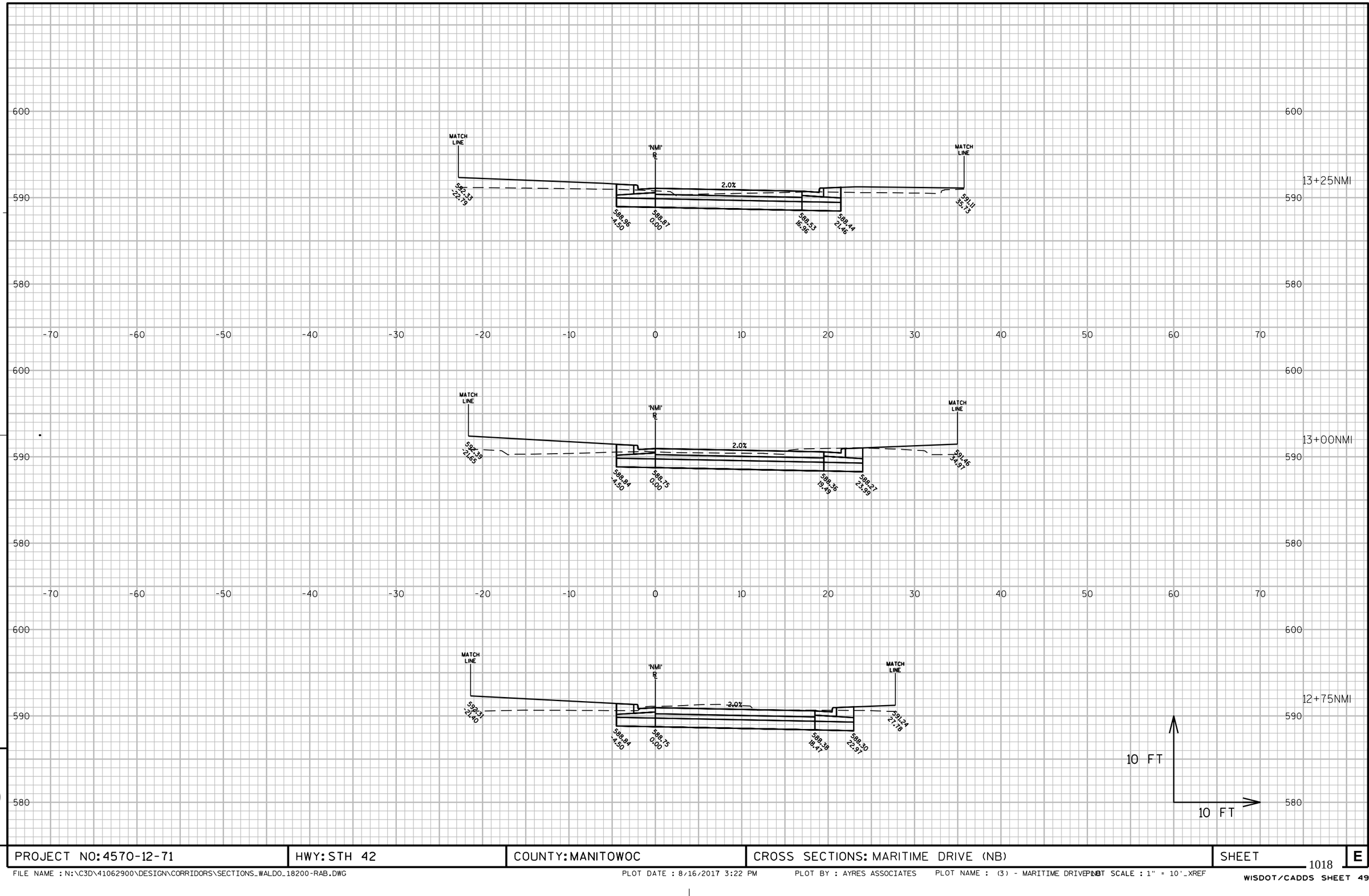
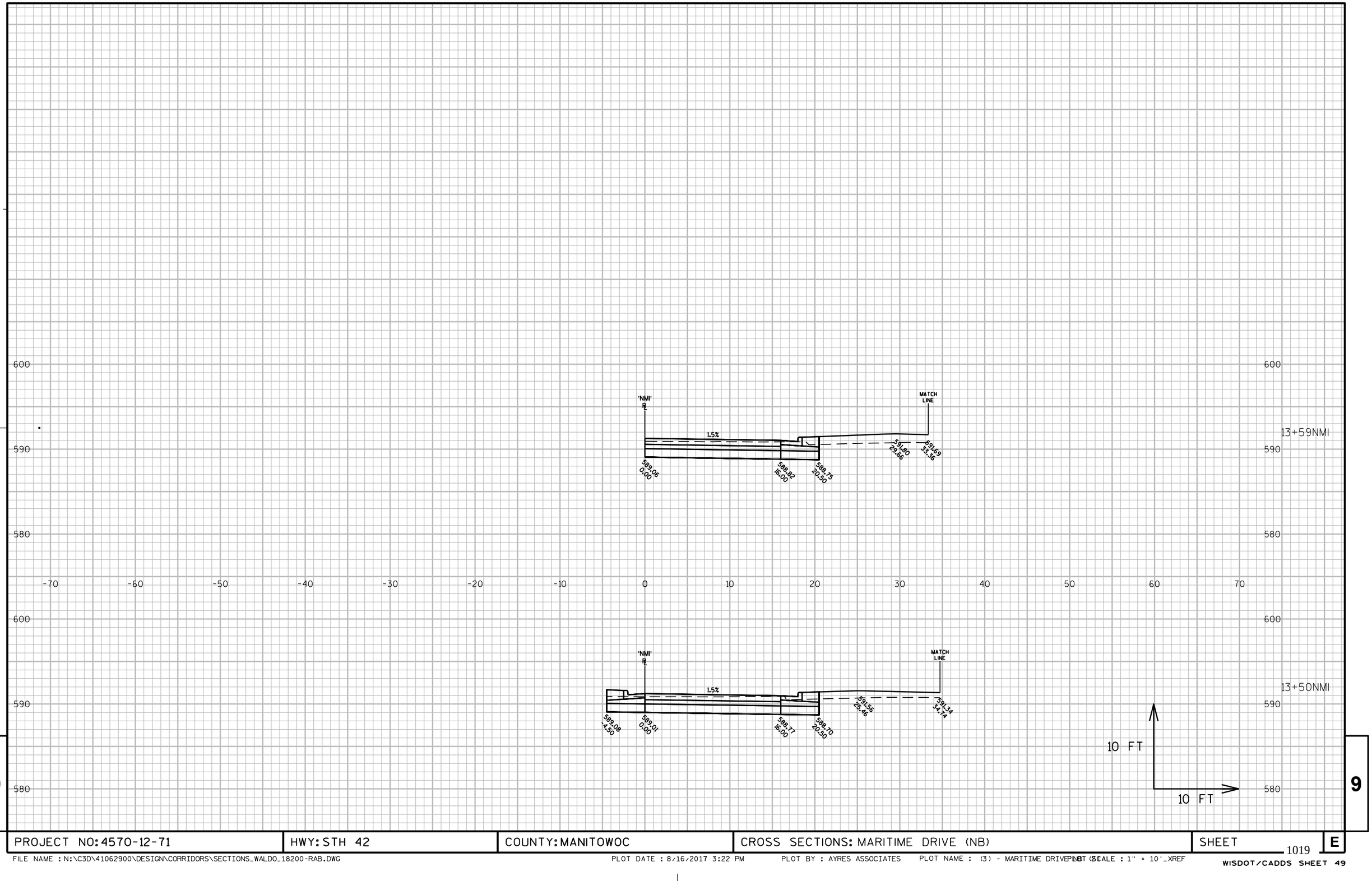
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: MARITIME DRIVE (NB)	SHEET 1017	E



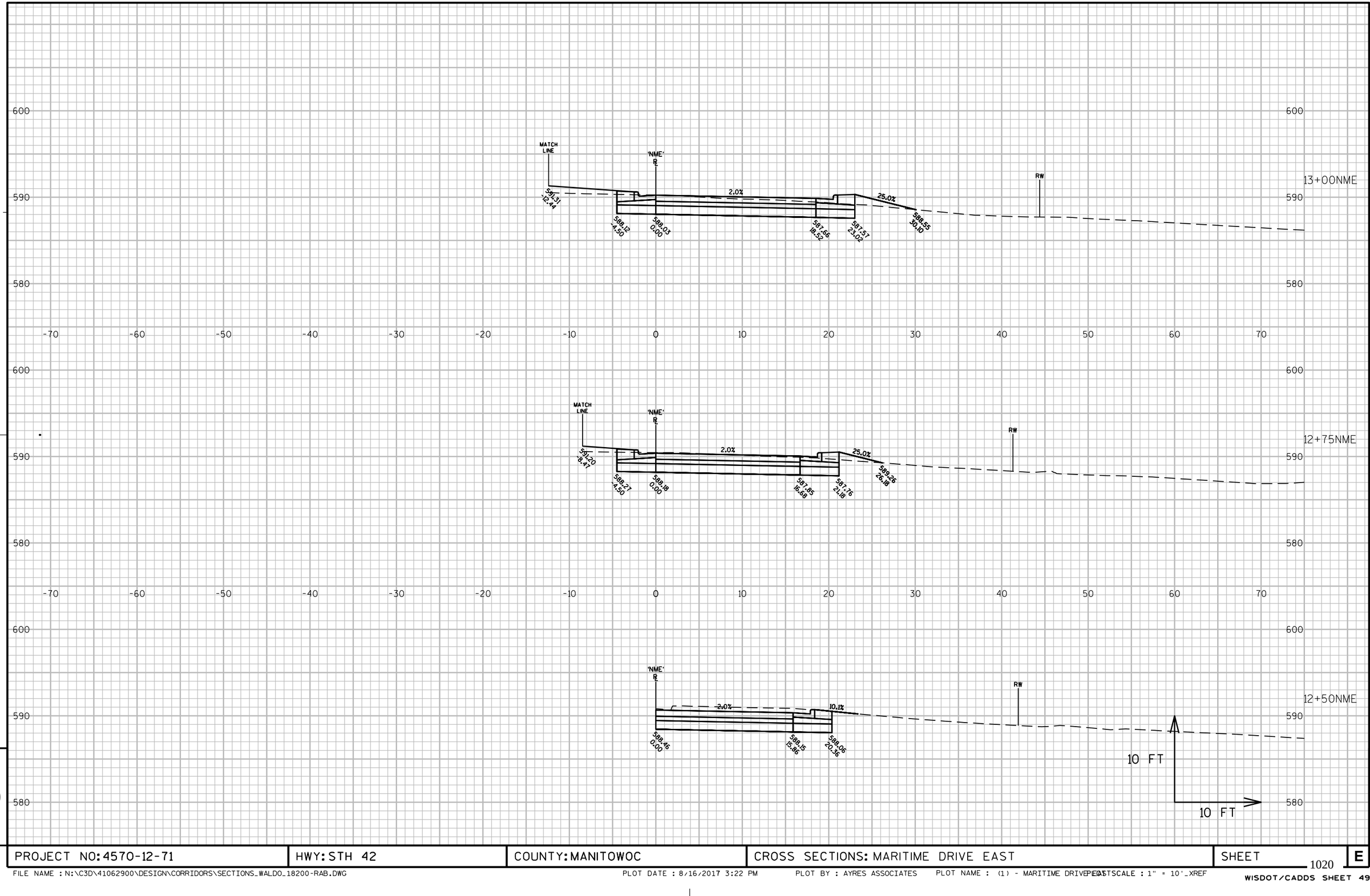
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: MARITIME DRIVE (NB)	SHEET 1018	E



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: MARITIME DRIVE (NB)	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:22 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (3) - MARITIME DRIVE.PLT (3C PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



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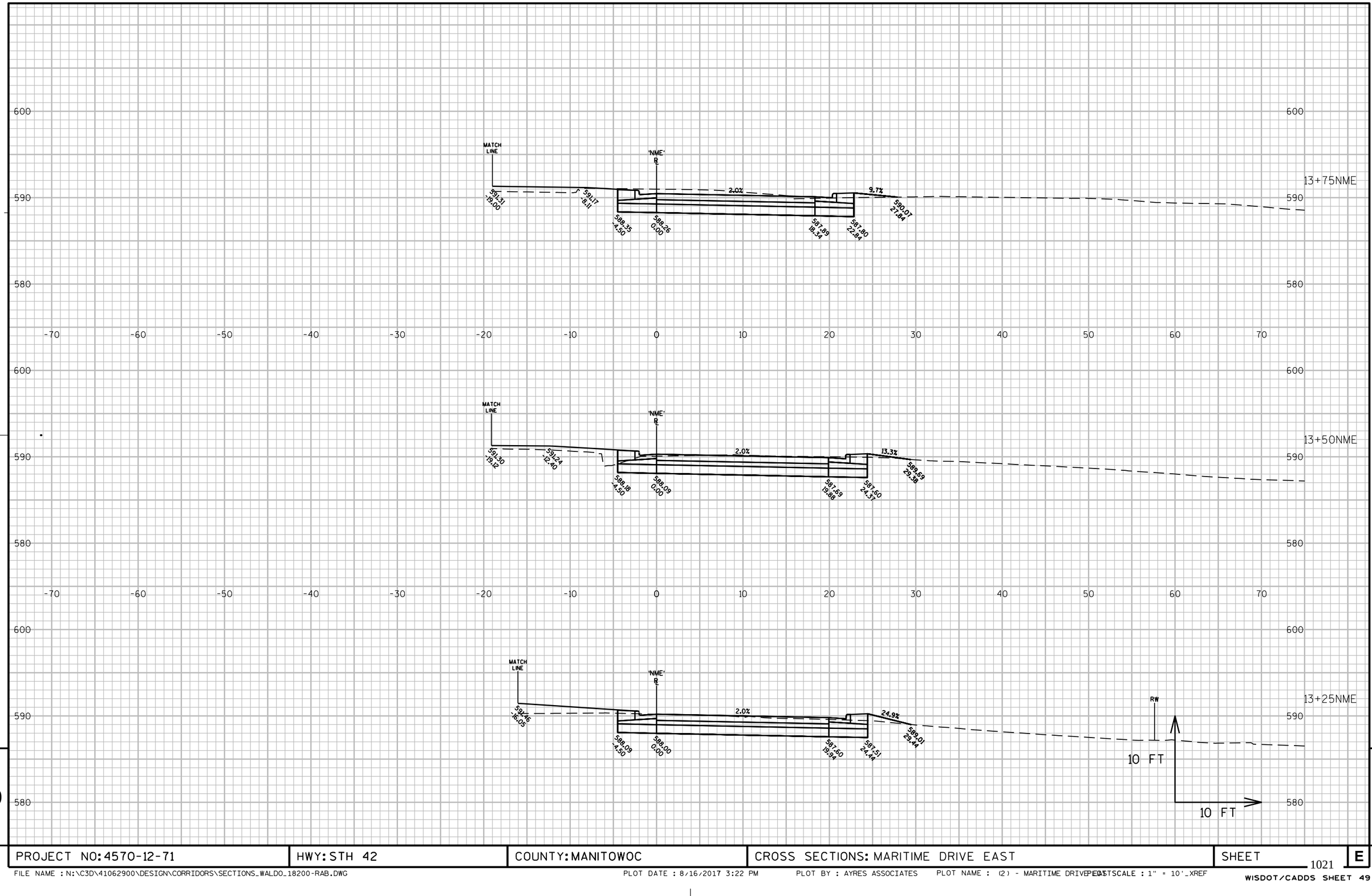
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: MARITIME DRIVE EAST	SHEET 1020	E

9

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:22 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1) - MARITIME DRIVE_EAST.TSCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



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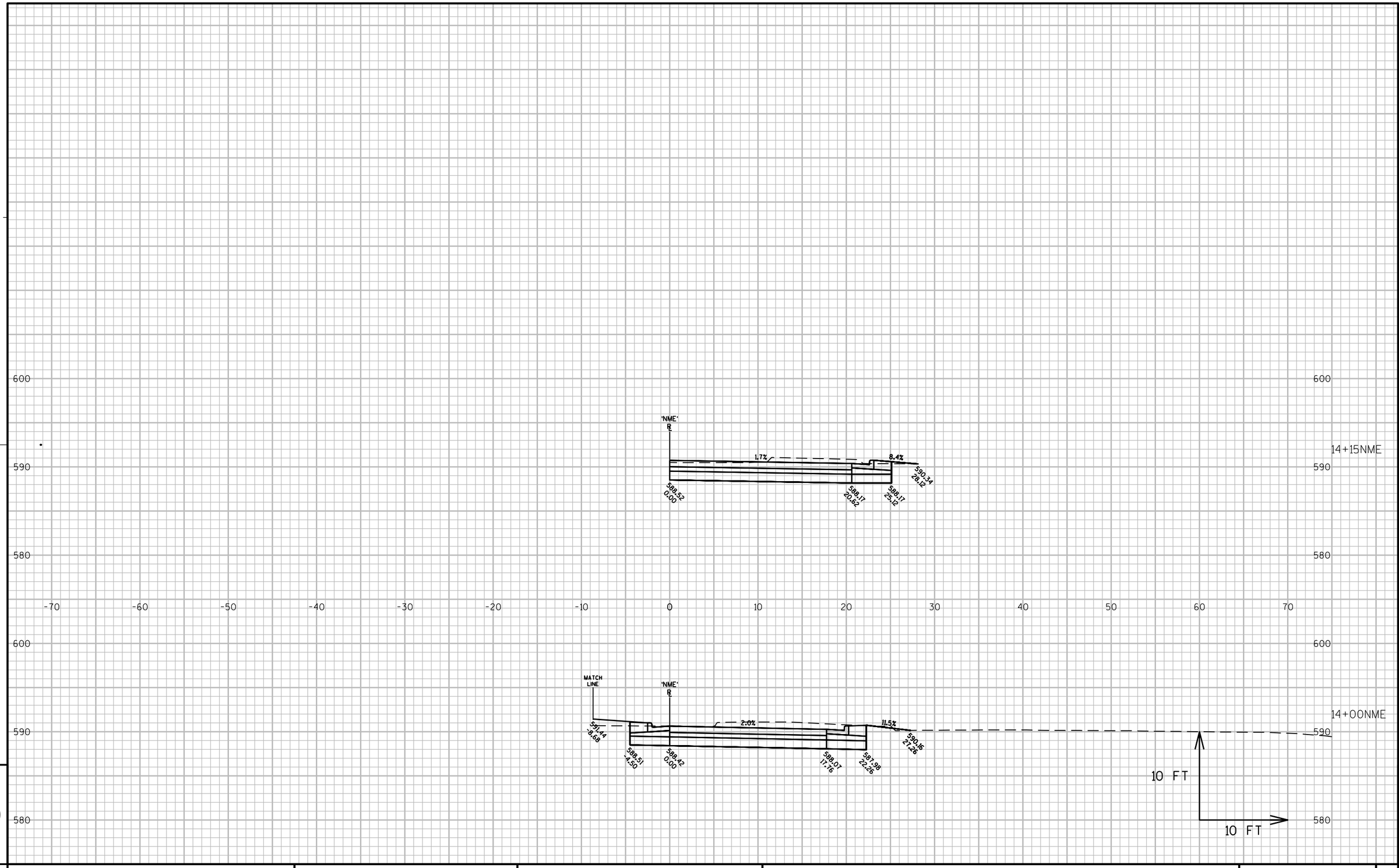
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: MARITIME DRIVE EAST	SHEET 1021	E

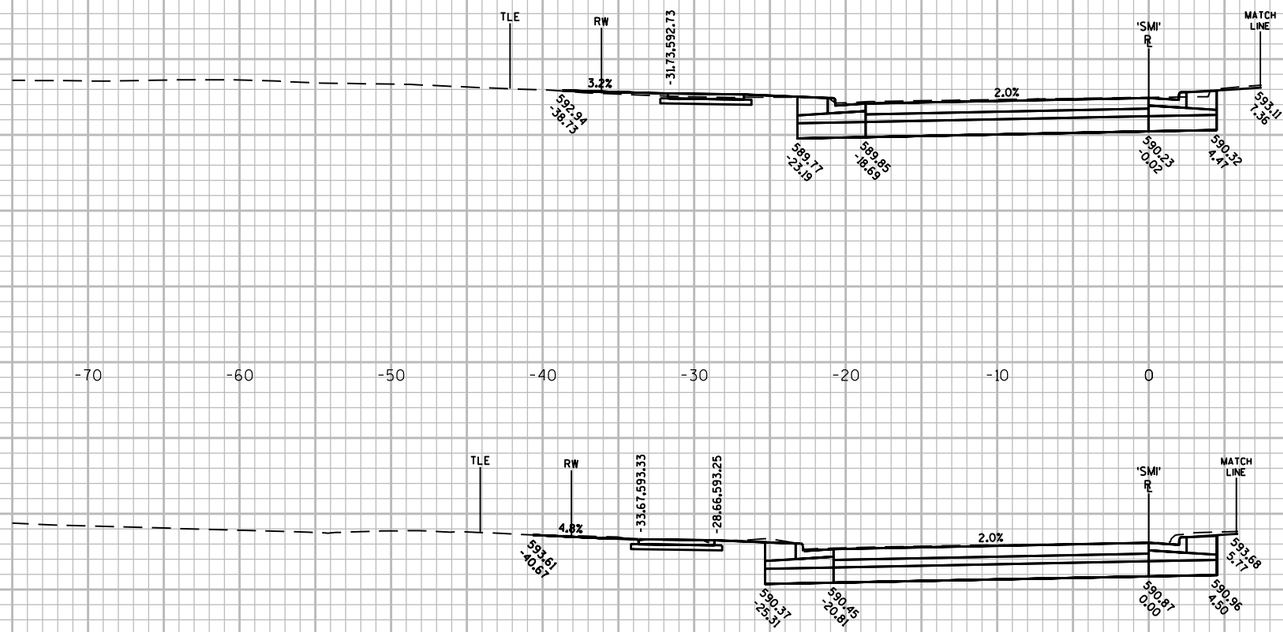
FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:22 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (2) - MARITIME DRIVE EAST.PLT PLOTSCALE : 1" = 10'_XREF



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: MARITIME DRIVE EAST	SHEET	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:23 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (3) - MARITIME DRIVE EAST.PLT SCALE : 1" = 10'_XREF

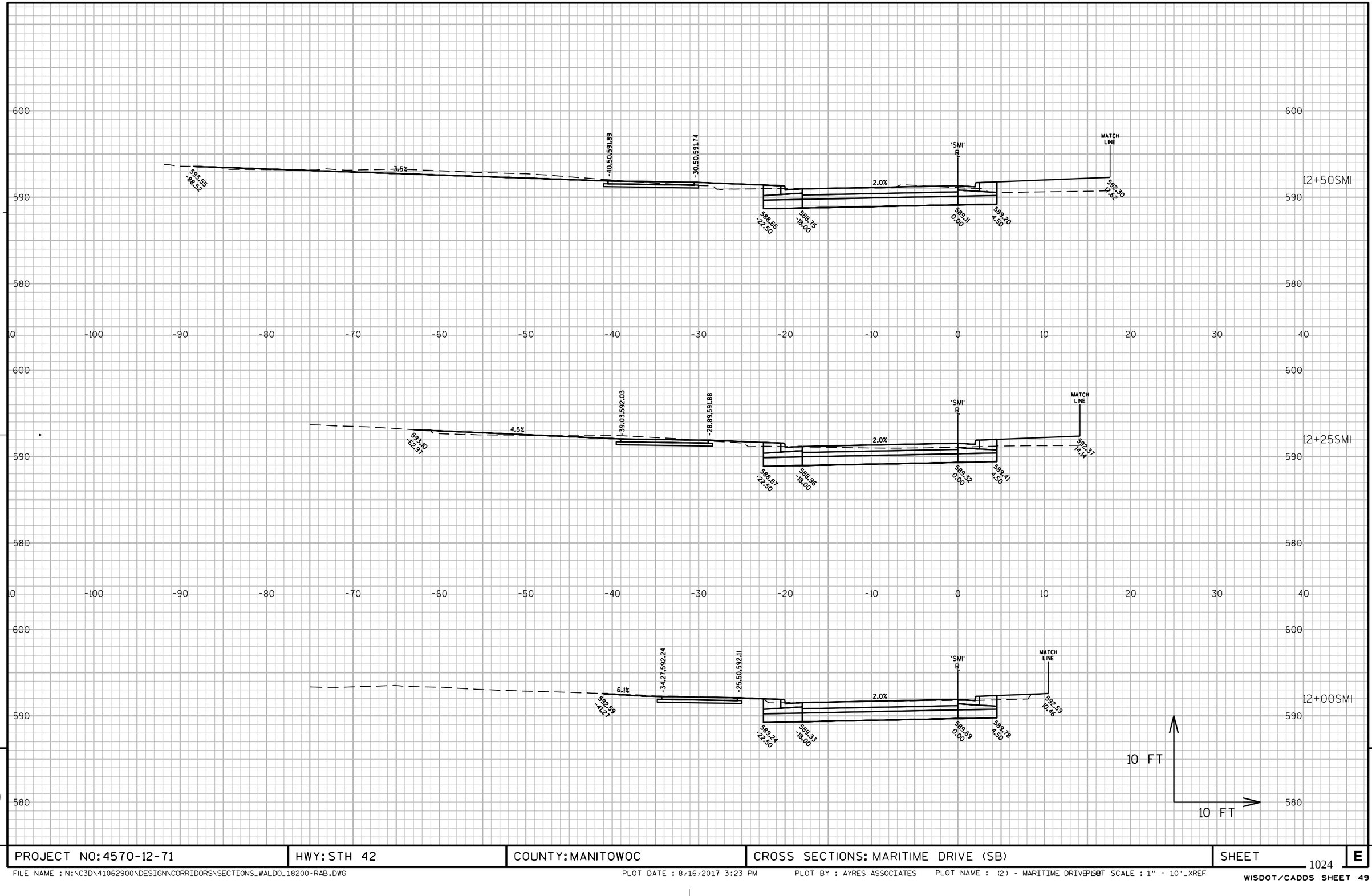
WISDOT/CADDS SHEET 49



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: MARITIME DRIVE (SB)	SHEET 1023	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:23 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1) - MARITIME DRIVE.DWG PLOT SCALE : 1" = 10'_XREF

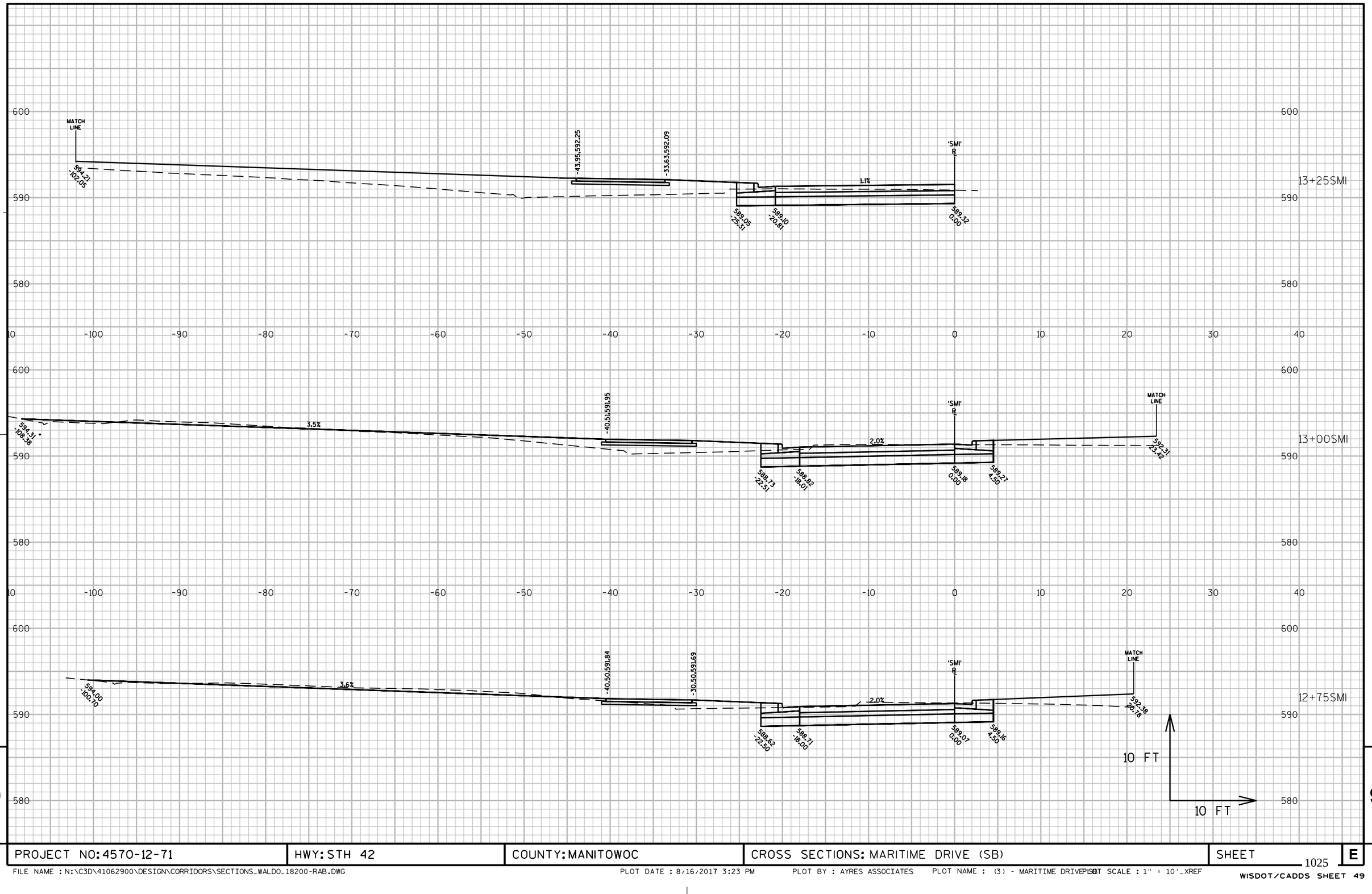
WISDOT/CADDS SHEET 49



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: MARITIME DRIVE (SB)	SHEET 1024	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:23 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (2) - MARITIME DRIVE.PLT PLOT SCALE : 1" = 10'_XREF

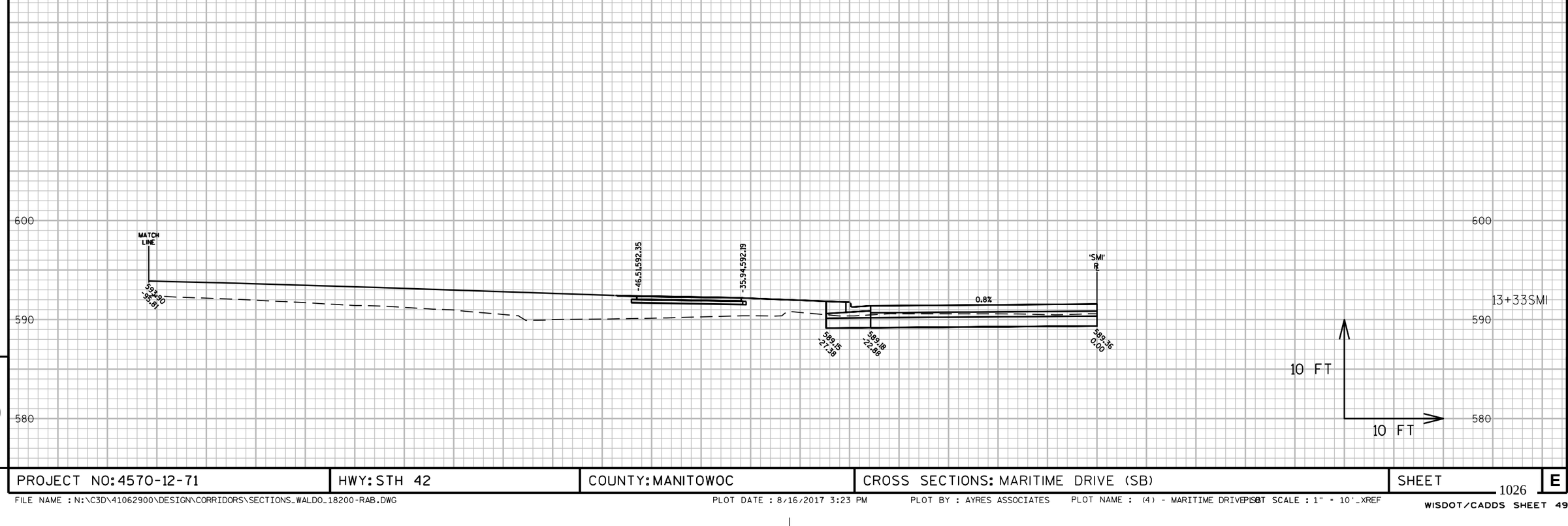
WISDOT/CADDS SHEET 49



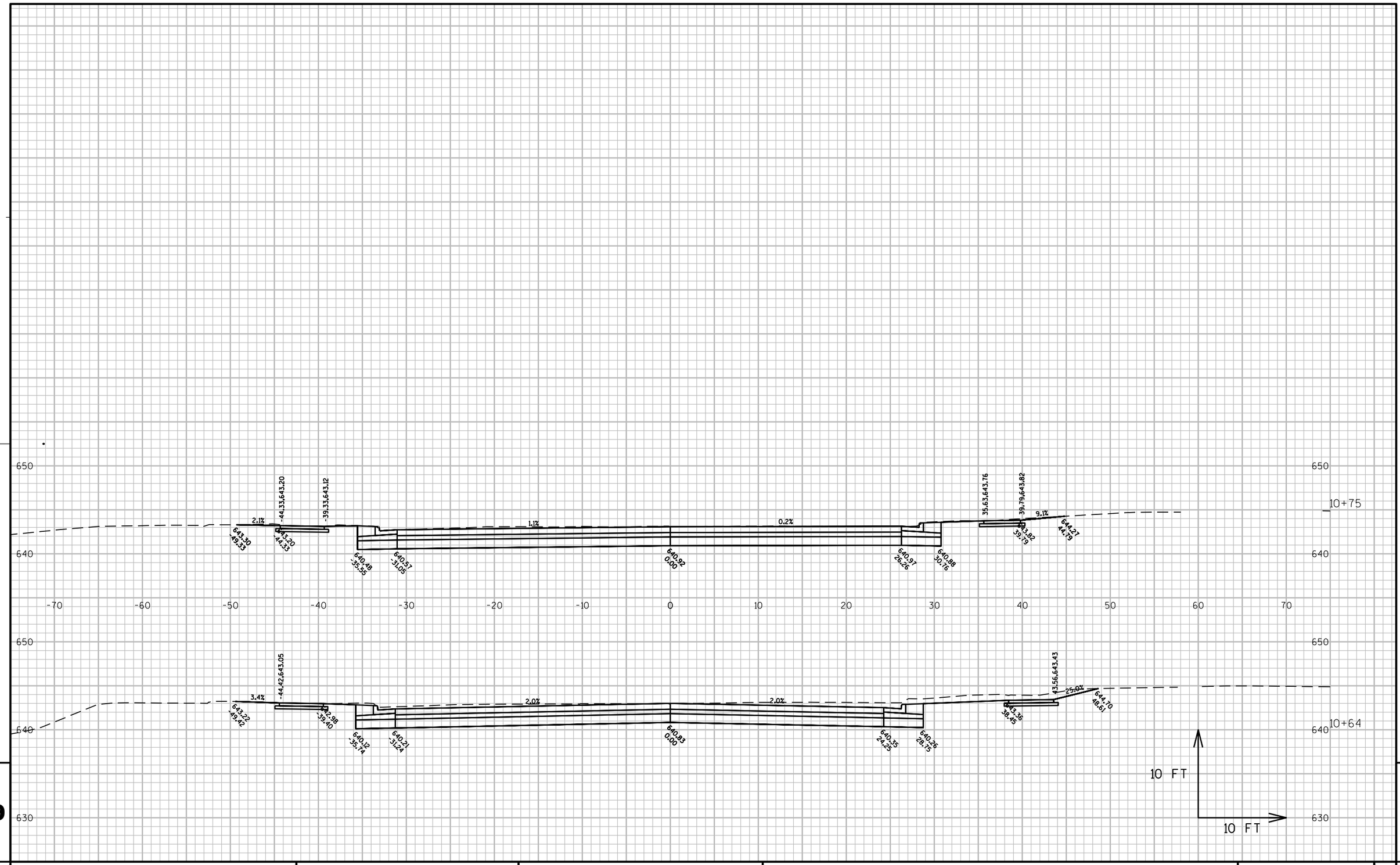
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: MARITIME DRIVE (SB)	SHEET 1025	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_18200-RAB.DWG PLOT DATE : 8/16/2017 3:23 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (3) - MARITIME DRIVE.PLOT PLOT SCALE : 1" = 10'_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: MARITIME DRIVE (SB)	SHEET	E



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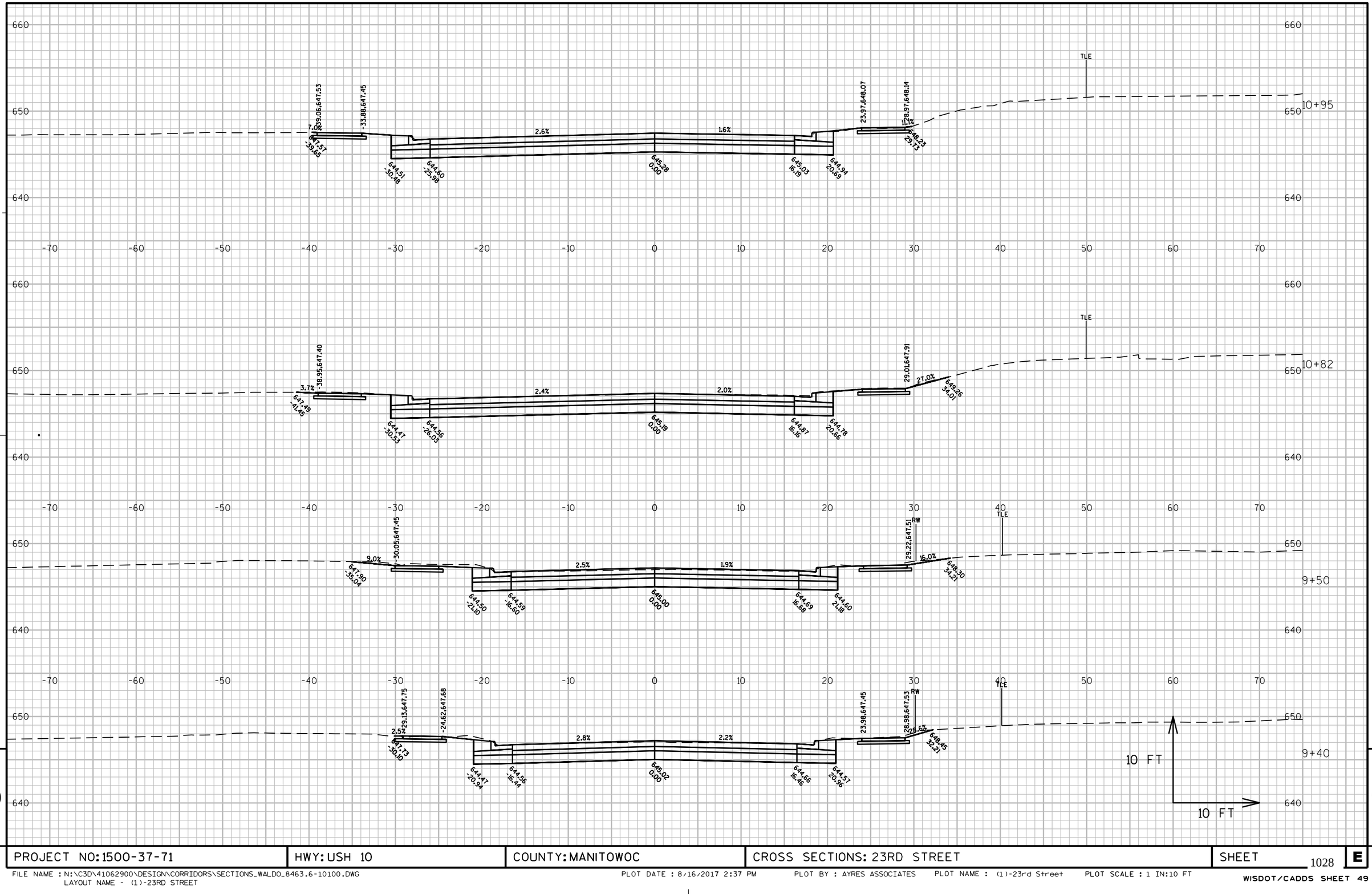
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: FLEETWOOD DRIVE	SHEET 1027	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_7000-8203.DWG
LAYOUT NAME - FLEETWOOD DRIVE

PLOT DATE : 8/16/2017 2:36 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : Fleetwood Drive PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

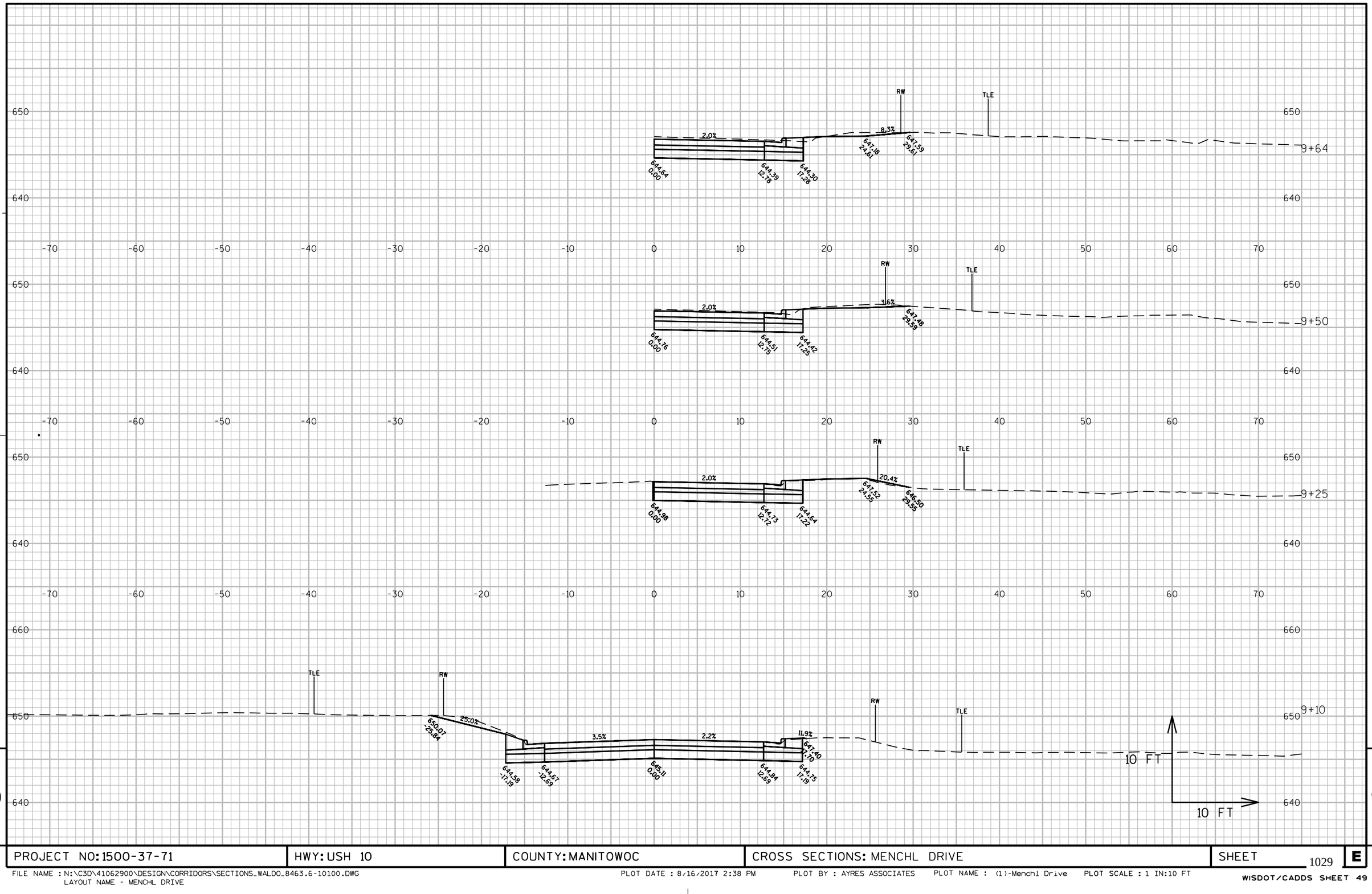


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: 23RD STREET	SHEET 1028	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - (1)-23RD STREET

PLOT DATE : 8/16/2017 2:37 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1)-23rd Street PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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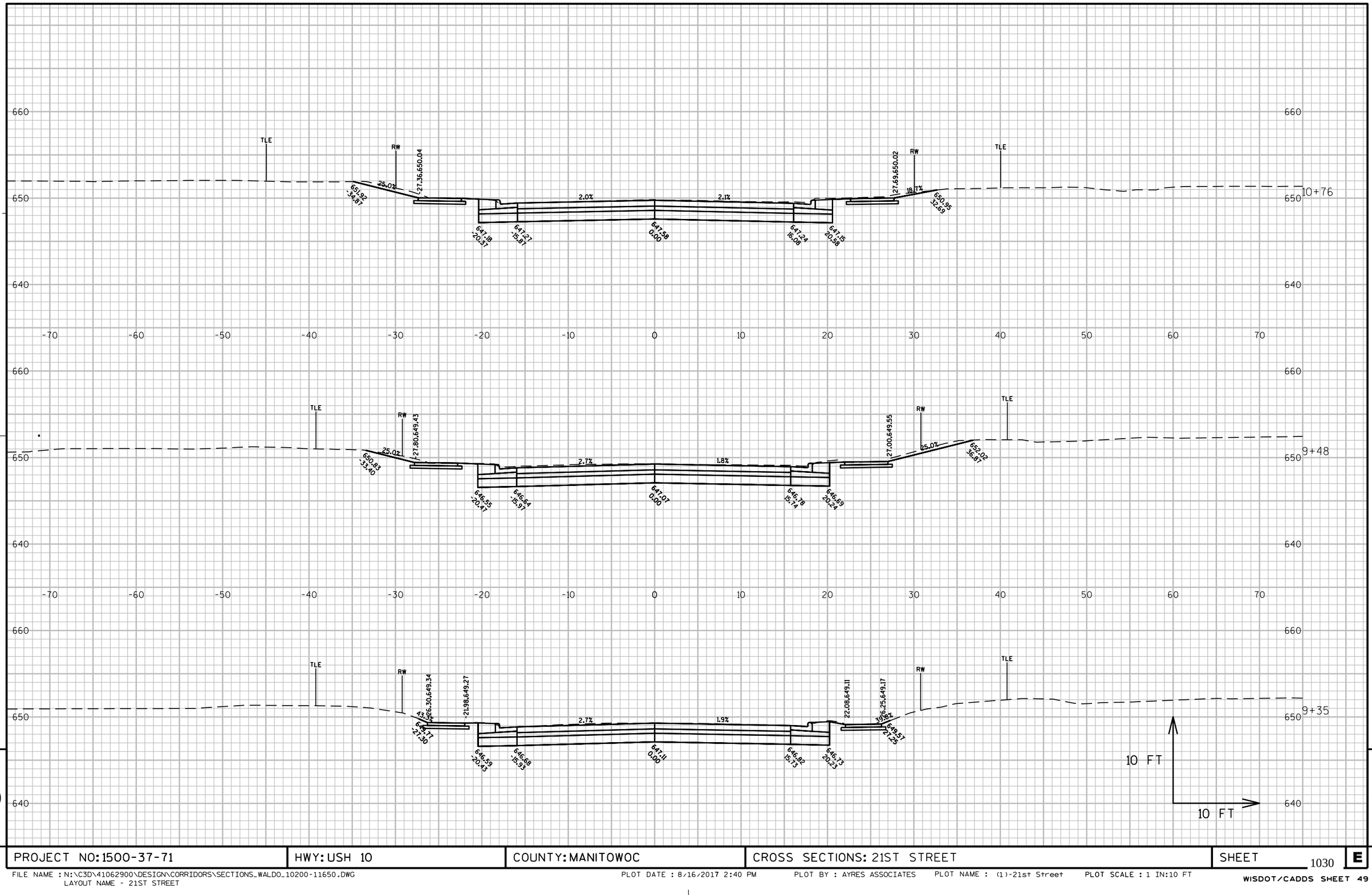
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: MENCHL DRIVE	SHEET 1029	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_8463.6-10100.DWG
LAYOUT NAME - MENCHL DRIVE

PLOT DATE : 8/16/2017 2:38 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1)-Menchl Drive PLOT SCALE : 1 IN:10 FT

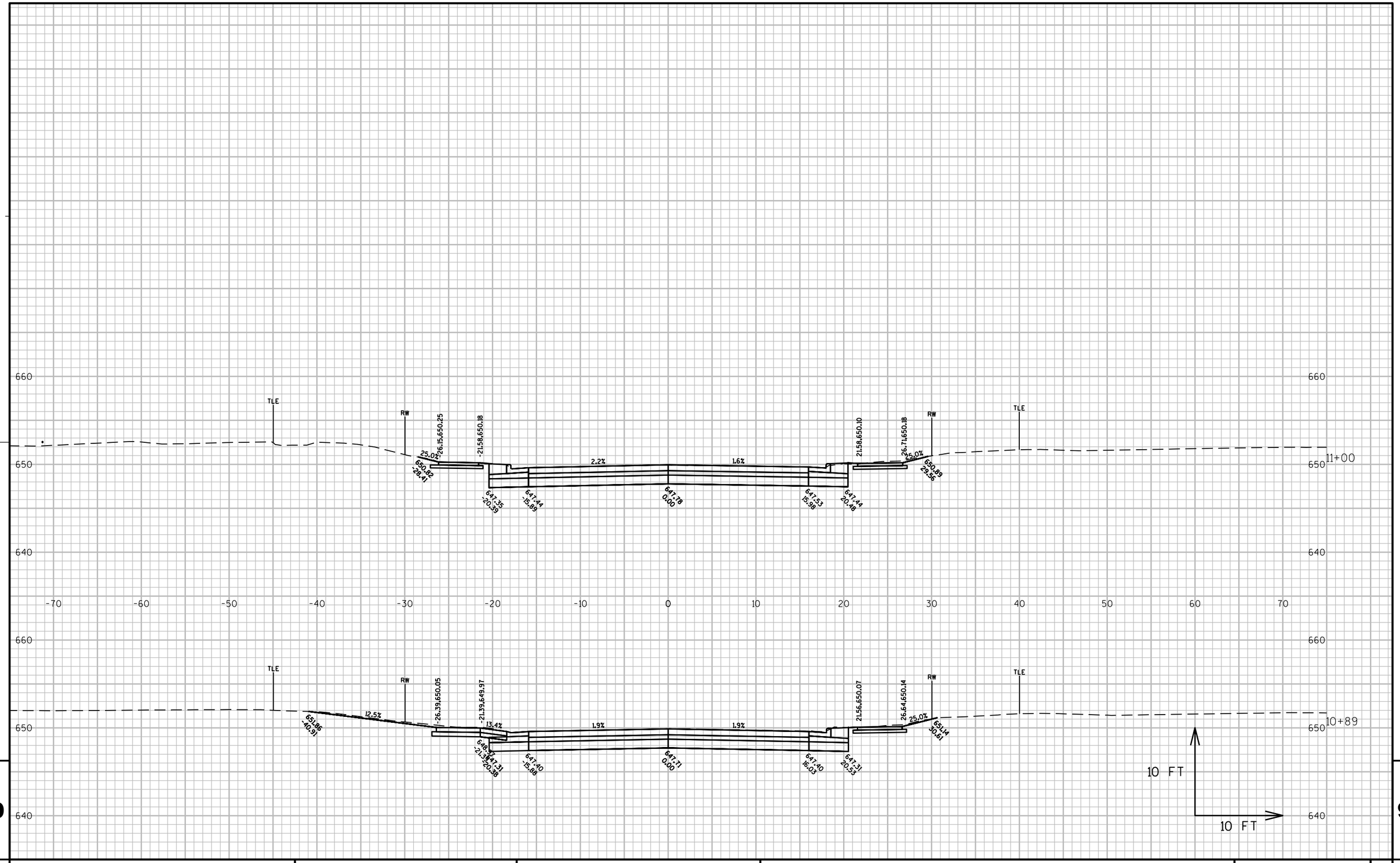


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: 21ST STREET	SHEET 1030	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_10200-11650.DWG
LAYOUT NAME - 21ST STREET

PLOT DATE : 8/16/2017 2:40 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1)-21st Street PLOT SCALE : 1 IN:10 FT

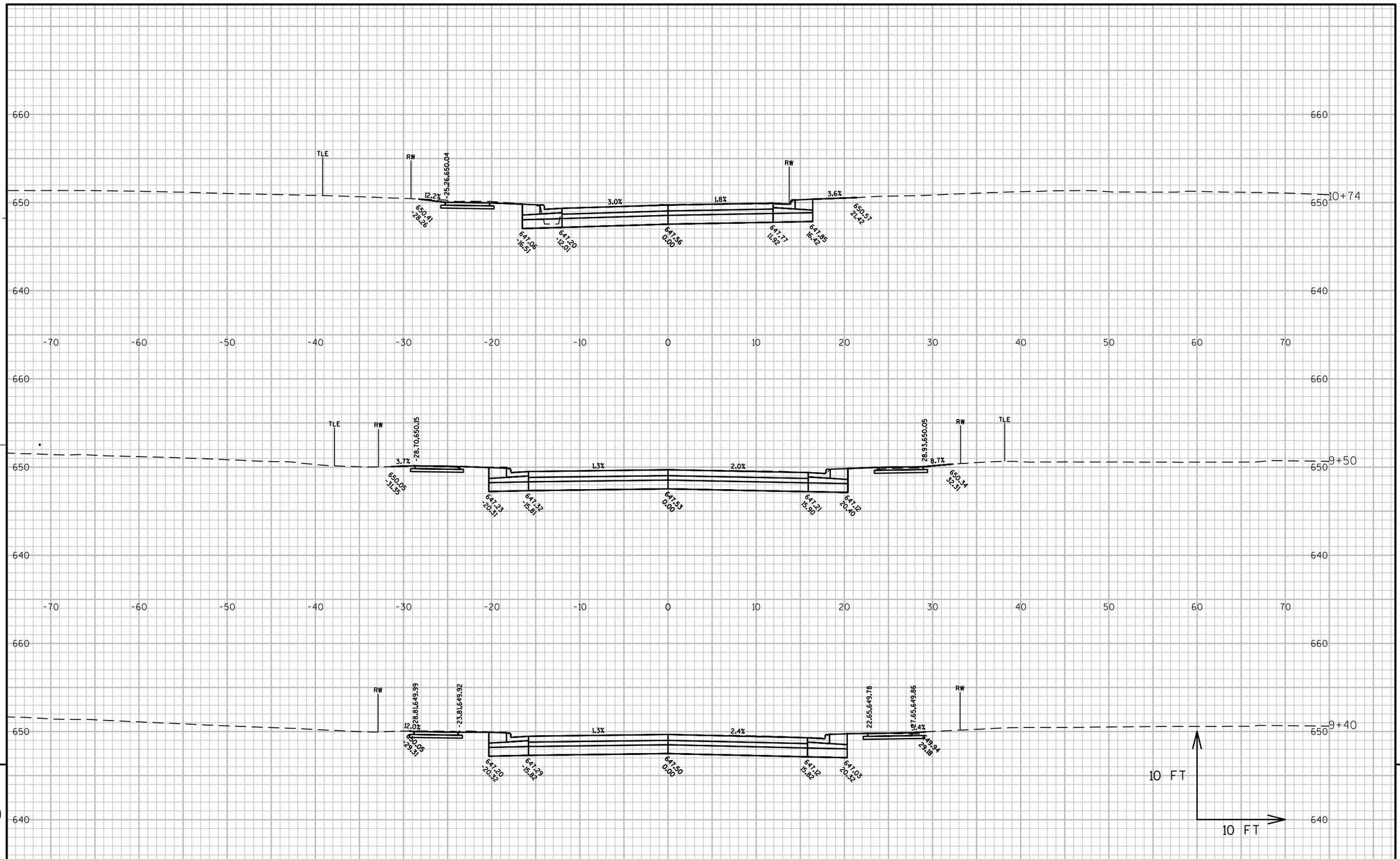
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: 21ST STREET	SHEET 1031	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_10200-11650.DWG
LAYOUT NAME - 21ST STREET

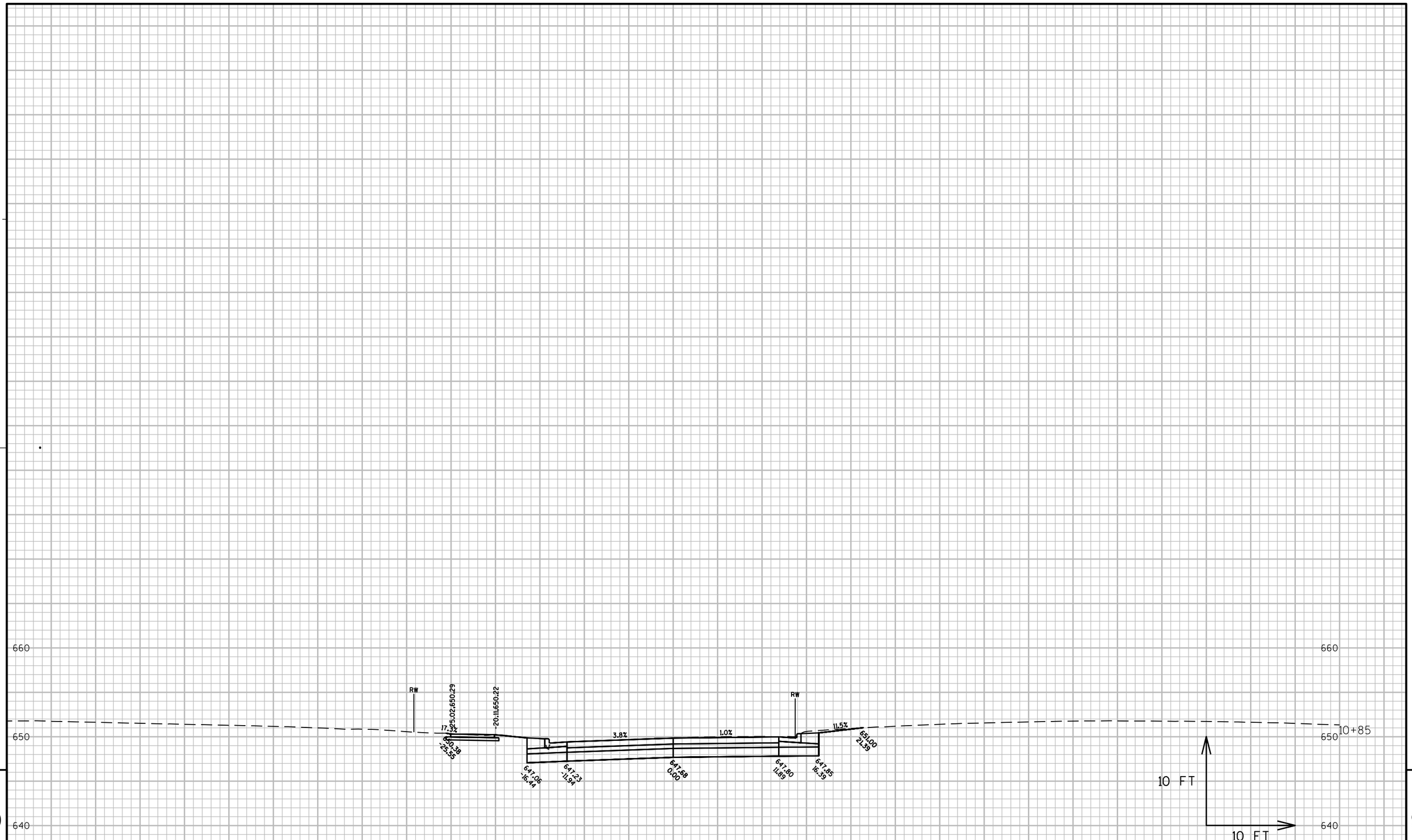
PLOT DATE : 8/16/2017 2:40 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (2)-21st Street PLOT SCALE : 1 IN:10 FT



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: SB PARK ROW BLVD	SHEET 1032	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_10200-11650.DWG
LAYOUT NAME - SB PARK ROW BLVD

PLOT DATE : 8/16/2017 2:41 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1)-SB Park Row Blvd PLOT SCALE : 1 IN:10 FT

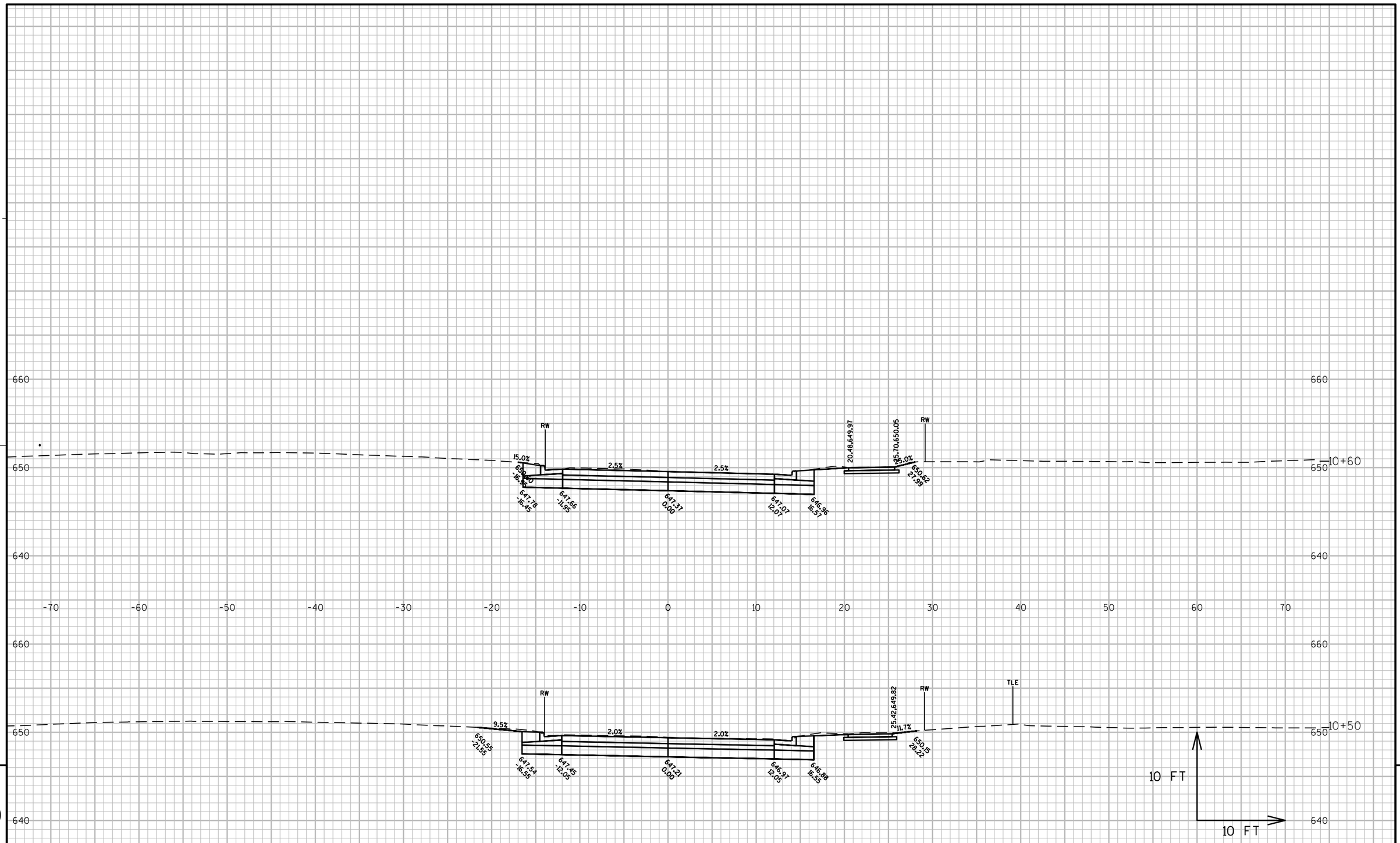


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: SB PARK ROW BLVD	SHEET 1033	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_10200-11650.DWG
LAYOUT NAME - SB PARK ROW BLVD

PLOT DATE : 8/16/2017 2:41 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (2)-SB Park Row Blvd PLOT SCALE : 1 IN:10 FT

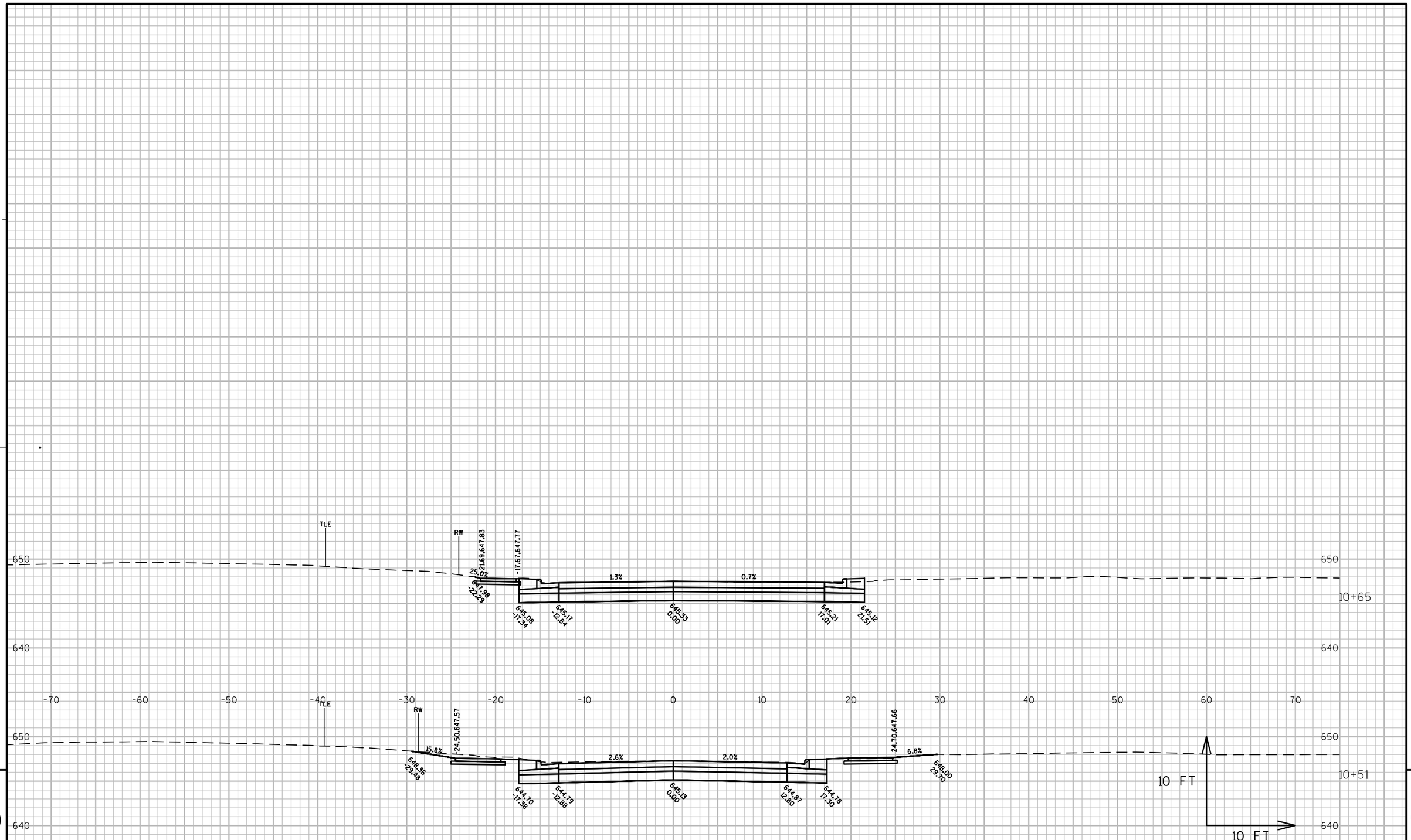
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: NB PARK ROW BLVD	SHEET 1034	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_10200-11650.DWG
LAYOUT NAME - NB PARK ROW BLVD

PLOT DATE : 8/16/2017 2:42 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1)-NB Park Row Blvd PLOT SCALE : 1 IN:10 FT



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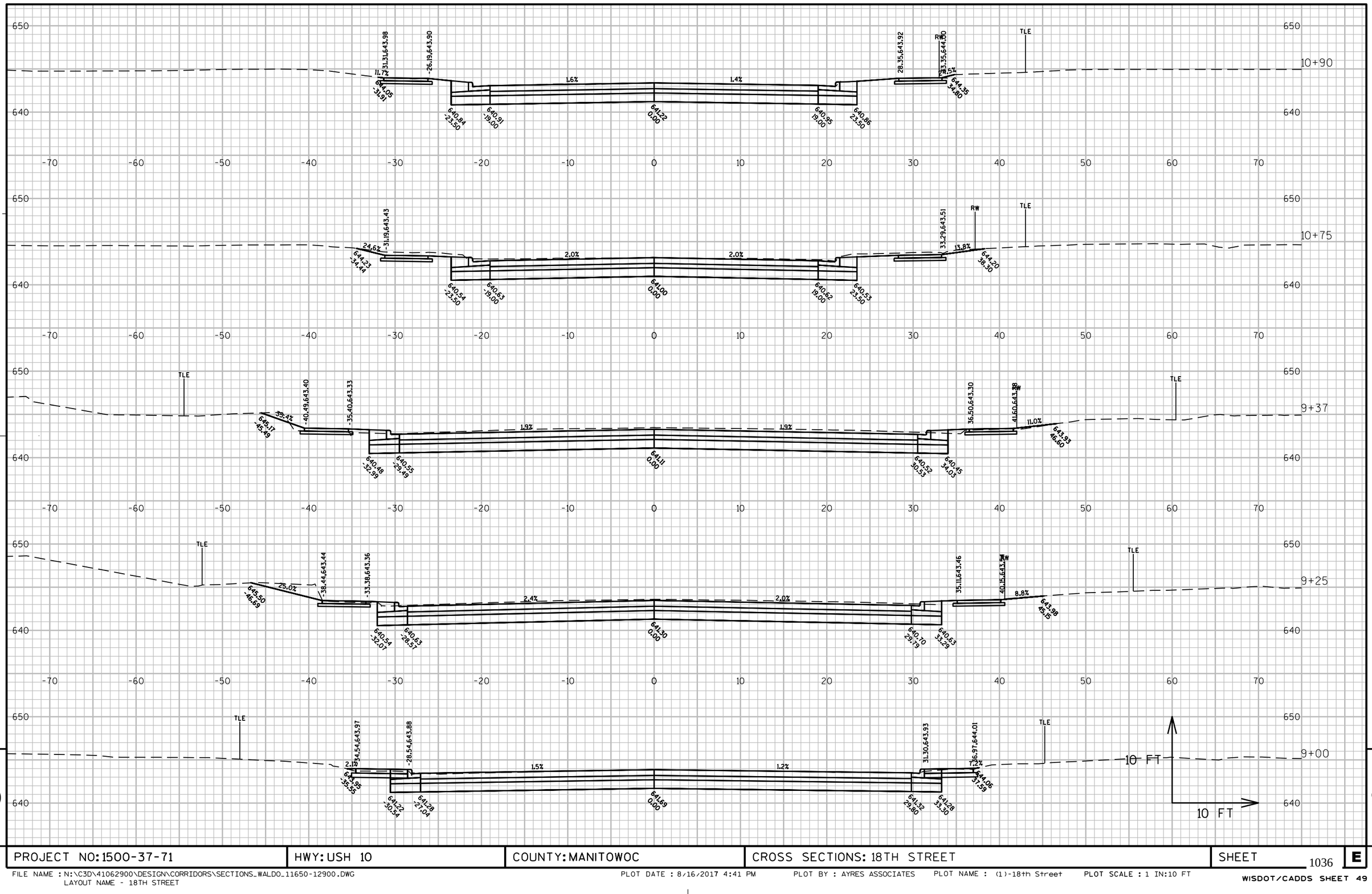
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: ELM STREET	SHEET 1035	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_10200-11650.DWG
LAYOUT NAME - ELM STREET

PLOT DATE : 8/16/2017 2:42 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1)-Elm Street PLOT SCALE : 1 IN:10 FT



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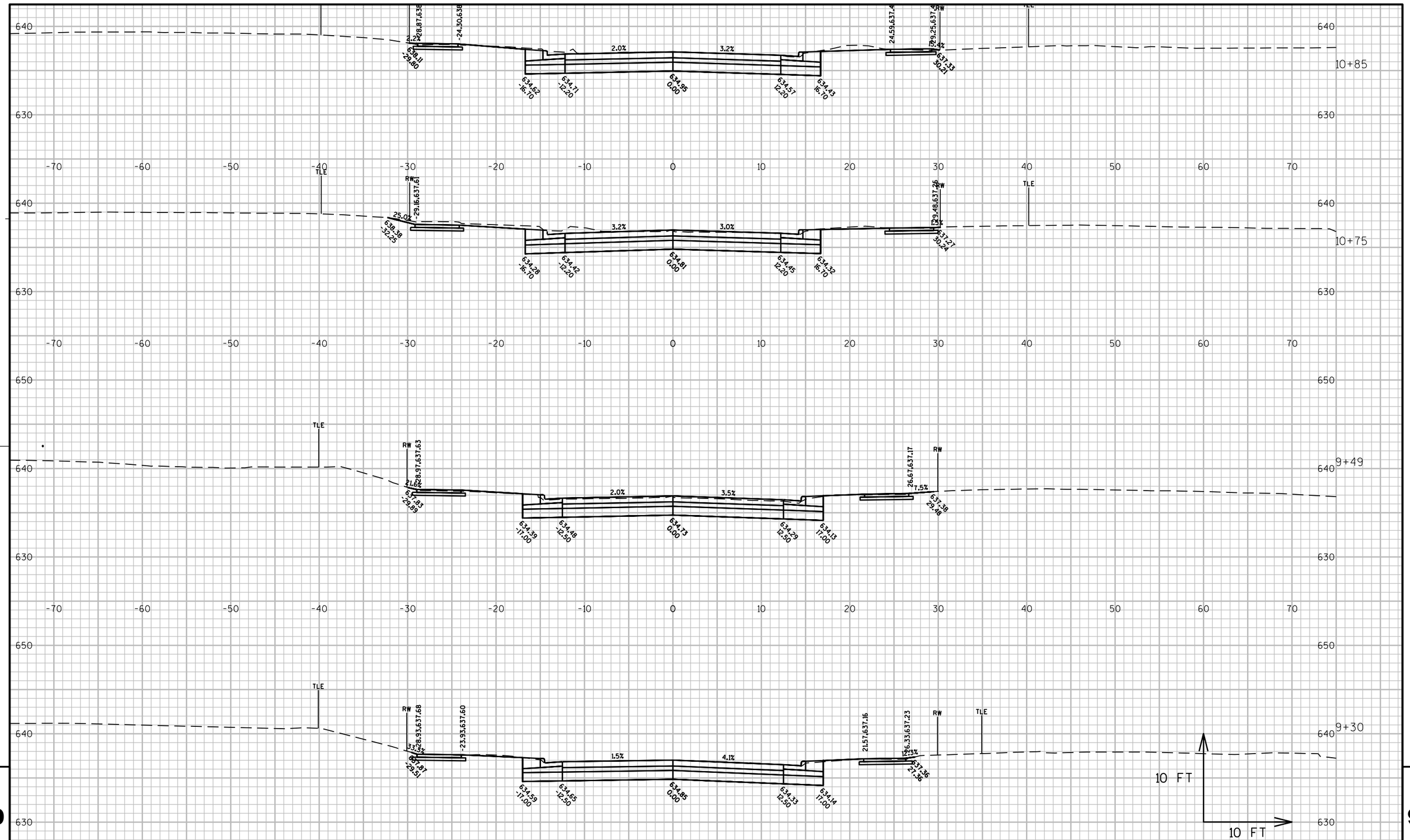
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: 18TH STREET	SHEET 1036	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_11650-12900.DWG
LAYOUT NAME - 18TH STREET

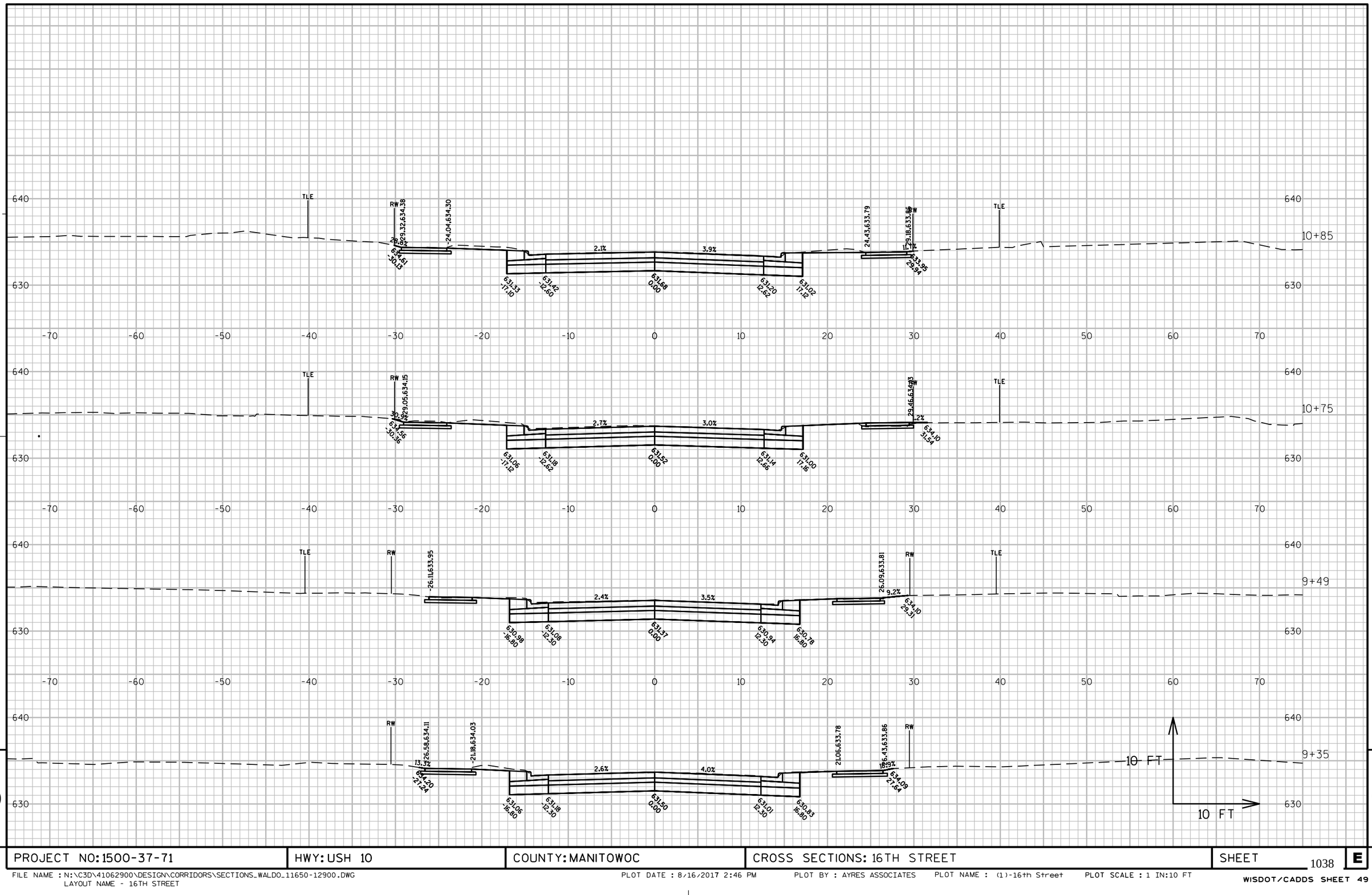
PLOT DATE : 8/16/2017 4:41 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1)-18th Street PLOT SCALE : 1 IN:10 FT

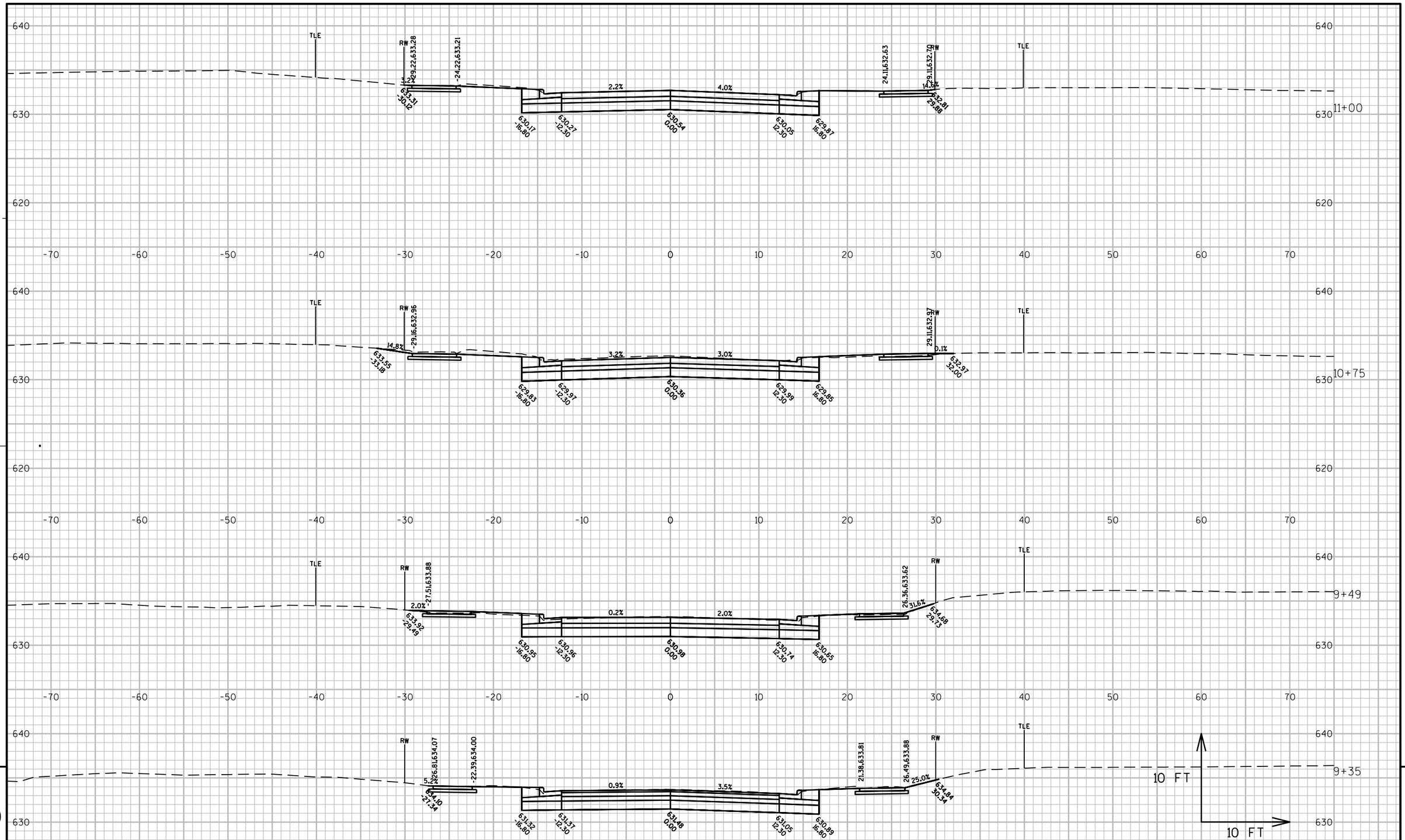


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: 17TH STREET	SHEET 1037 E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_11650-12900.DWG
LAYOUT NAME - 17TH STREET

PLOT DATE : 8/16/2017 2:45 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1)-17th Street PLOT SCALE : 1 IN:10 FT


640
630
TLE
RW
-24.04,634.30
29.82
6.1%
-30.13
-30.61
6.1%
6.1%
6.1%



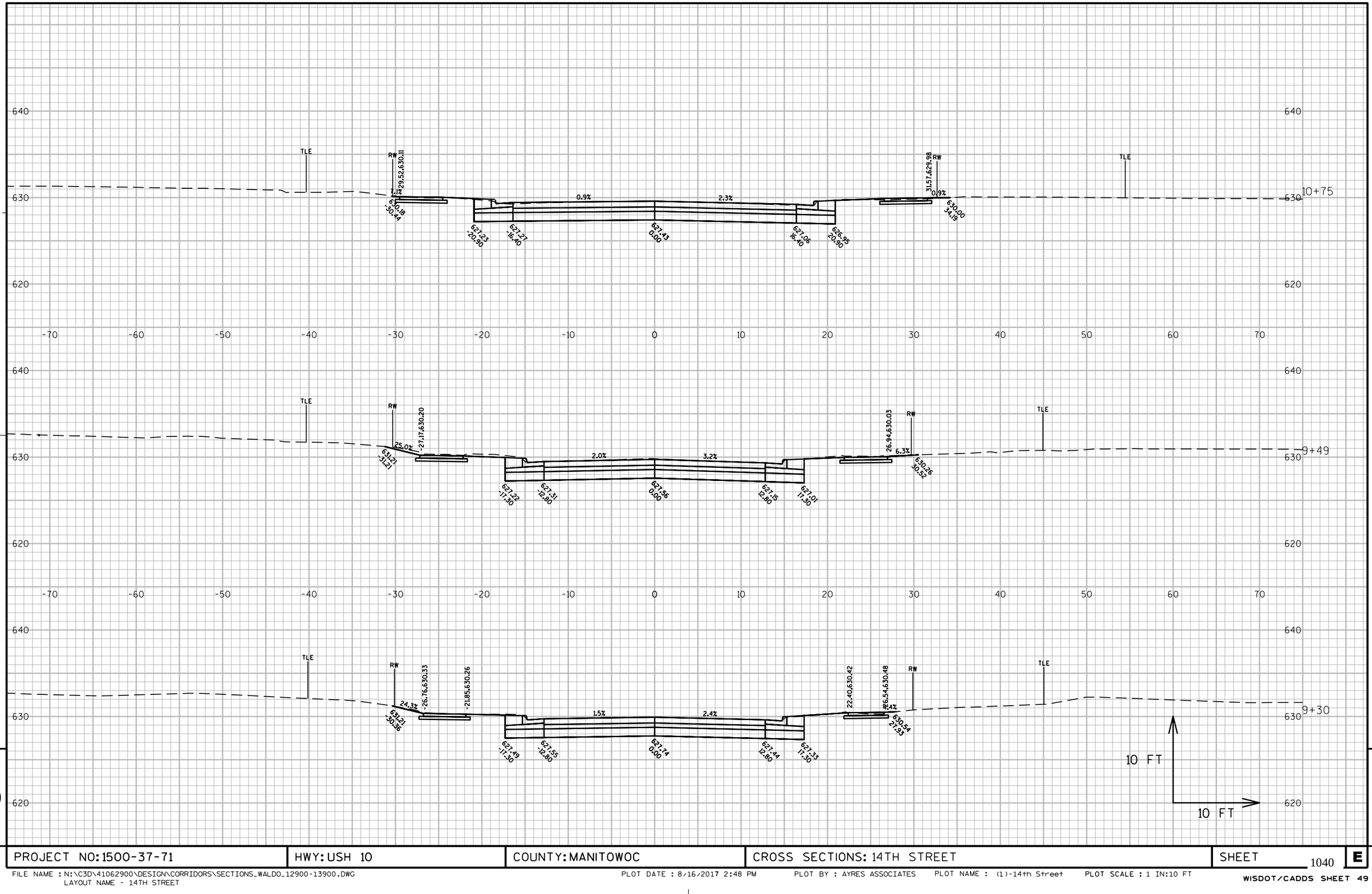
9 9

PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: 15TH STREET	SHEET 1039	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_11650-12900.DWG
LAYOUT NAME - 15TH STREET

PLOT DATE : 8/16/2017 2:46 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1)-15th Street PLOT SCALE : 1 IN:10 FT

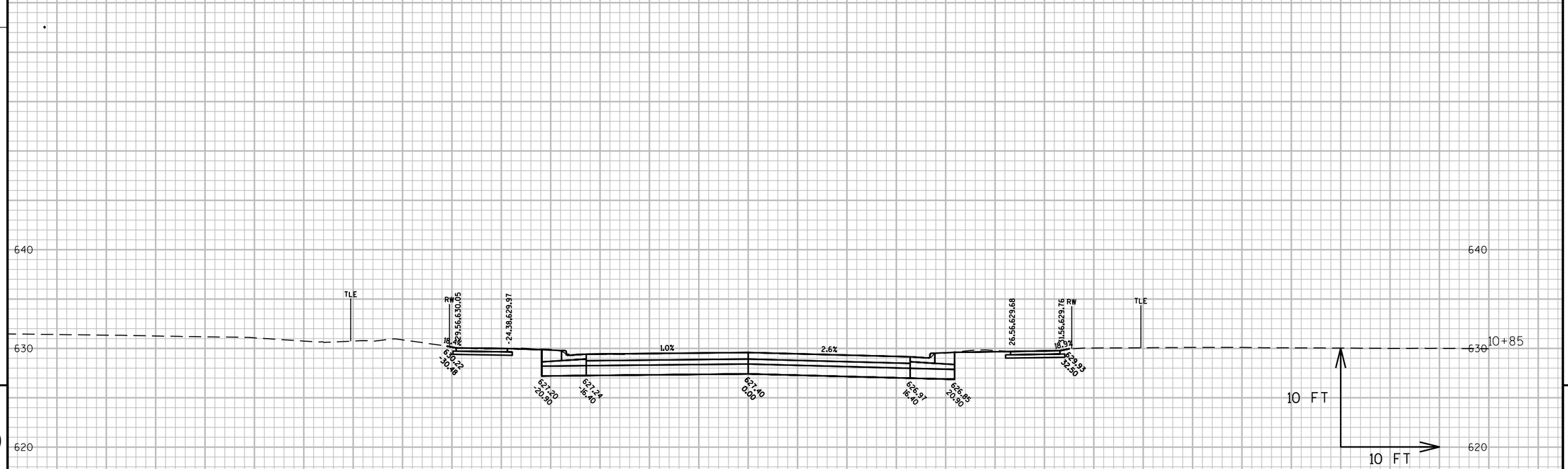
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: 14TH STREET	SHEET 1040	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_12900-13900.DWG
LAYOUT NAME - 14TH STREET

PLOT DATE : 8/16/2017 2:48 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1)-14th Street PLOT SCALE : 1 IN:10 FT



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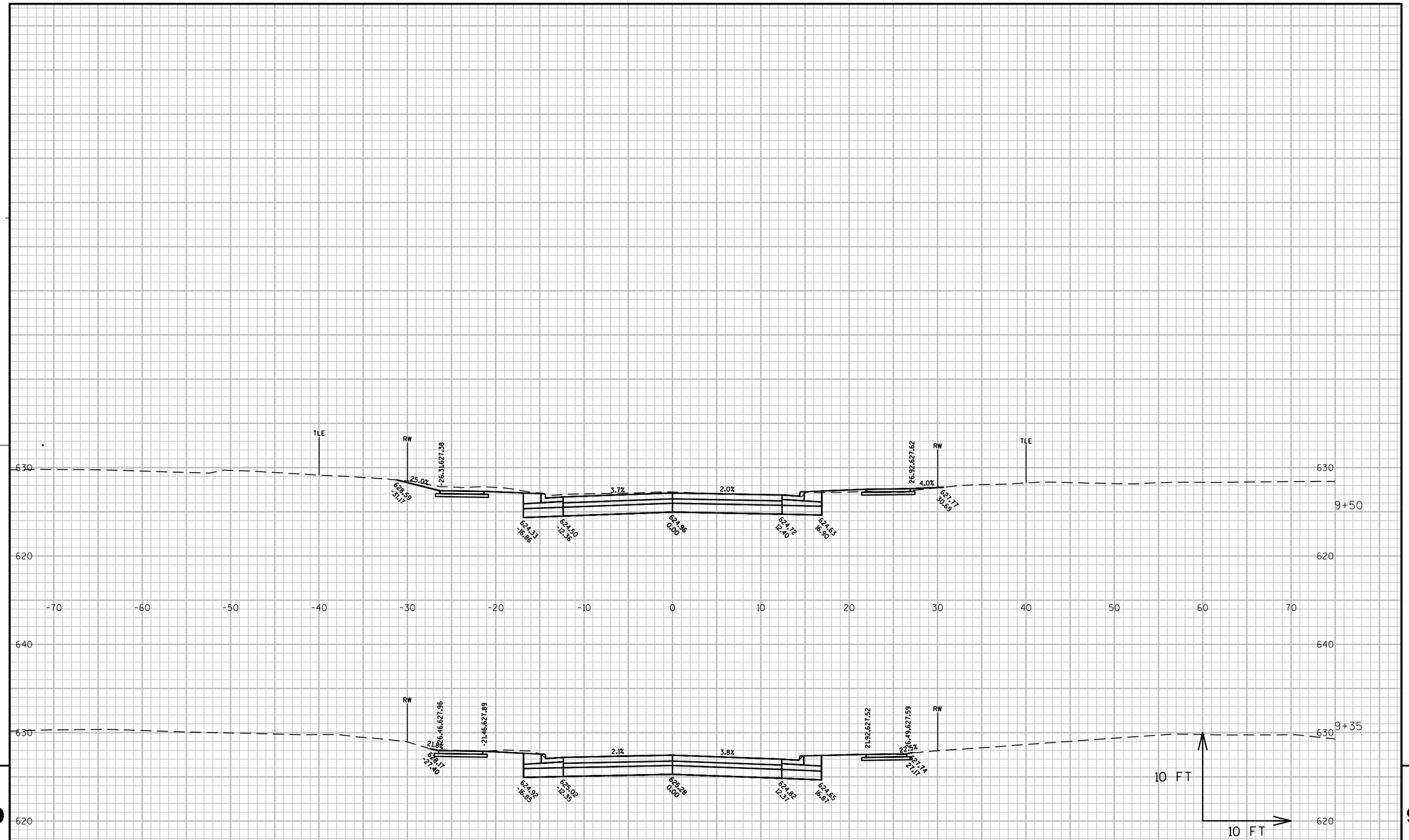
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: 14TH STREET	SHEET 1041	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_12900-13900.DWG
LAYOUT NAME - 14TH STREET

PLOT DATE : 8/16/2017 2:49 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (2)-14th Street PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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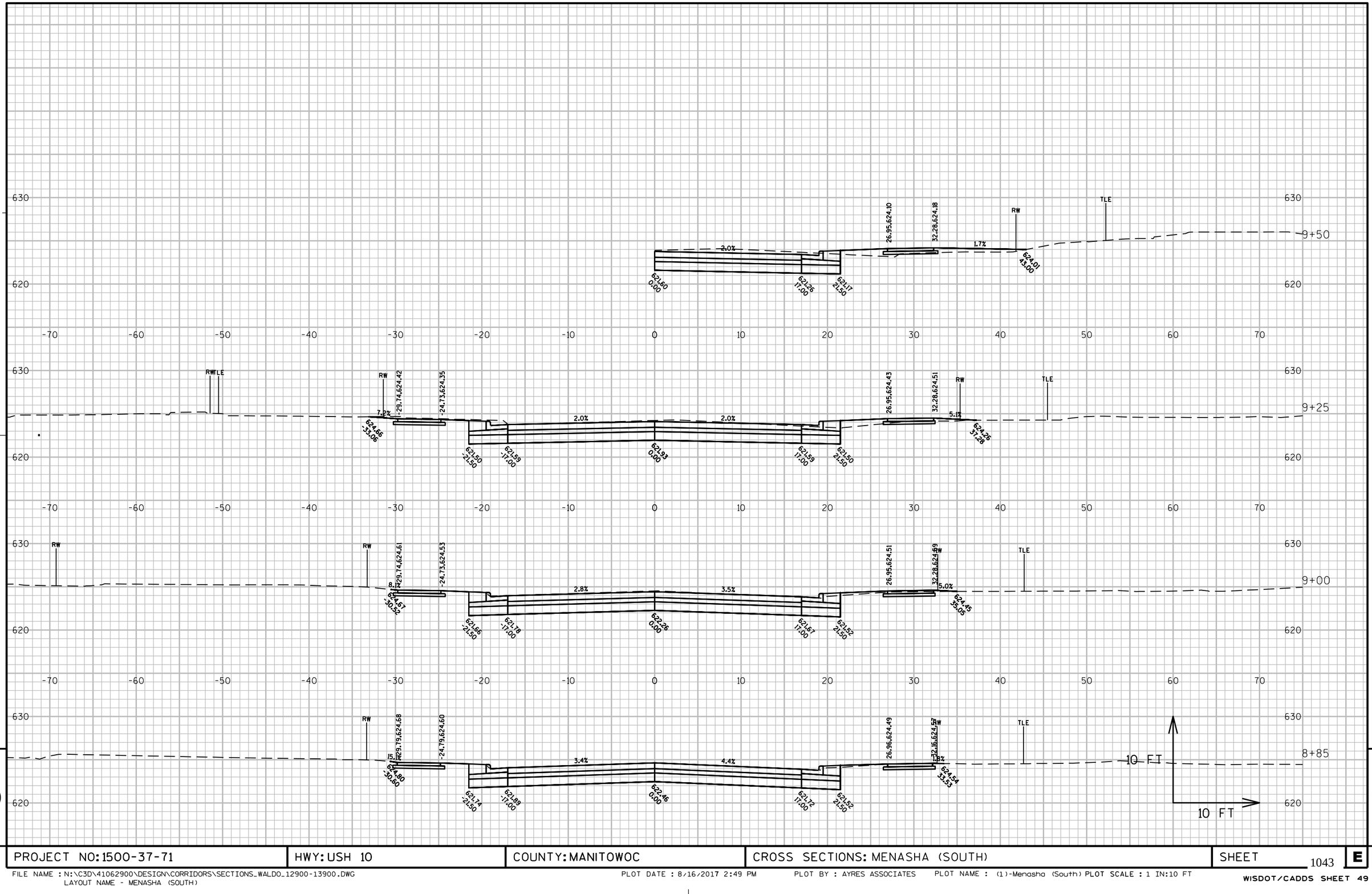
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: 13TH STREET	SHEET 1042	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_12900-13900.DWG
LAYOUT NAME - 13TH STREET

PLOT DATE : 8/16/2017 2:49 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1)-13th Street PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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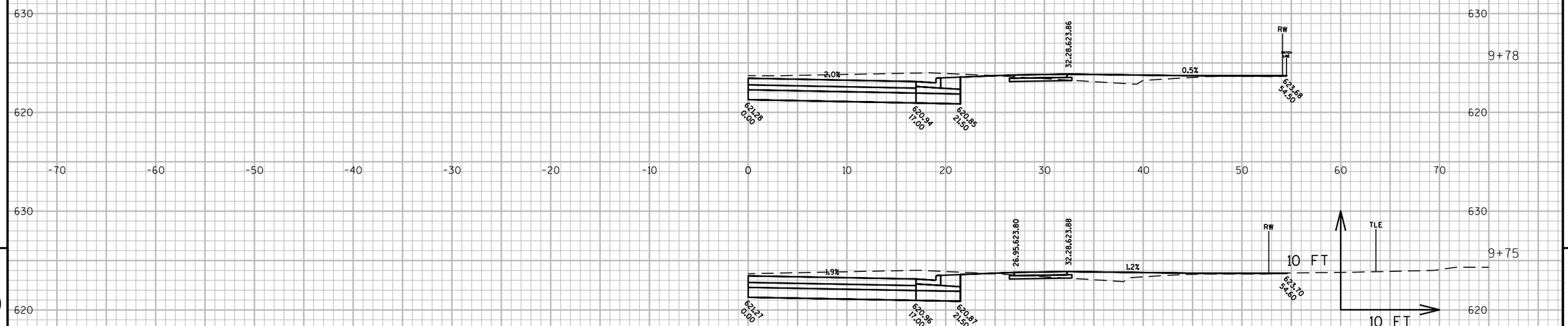
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: MENASHA (SOUTH)	SHEET 1043	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_12900-13900.DWG
LAYOUT NAME - MENASHA (SOUTH)

PLOT DATE : 8/16/2017 2:49 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1)-Menasha (South) PLOT SCALE : 1 IN:10 FT



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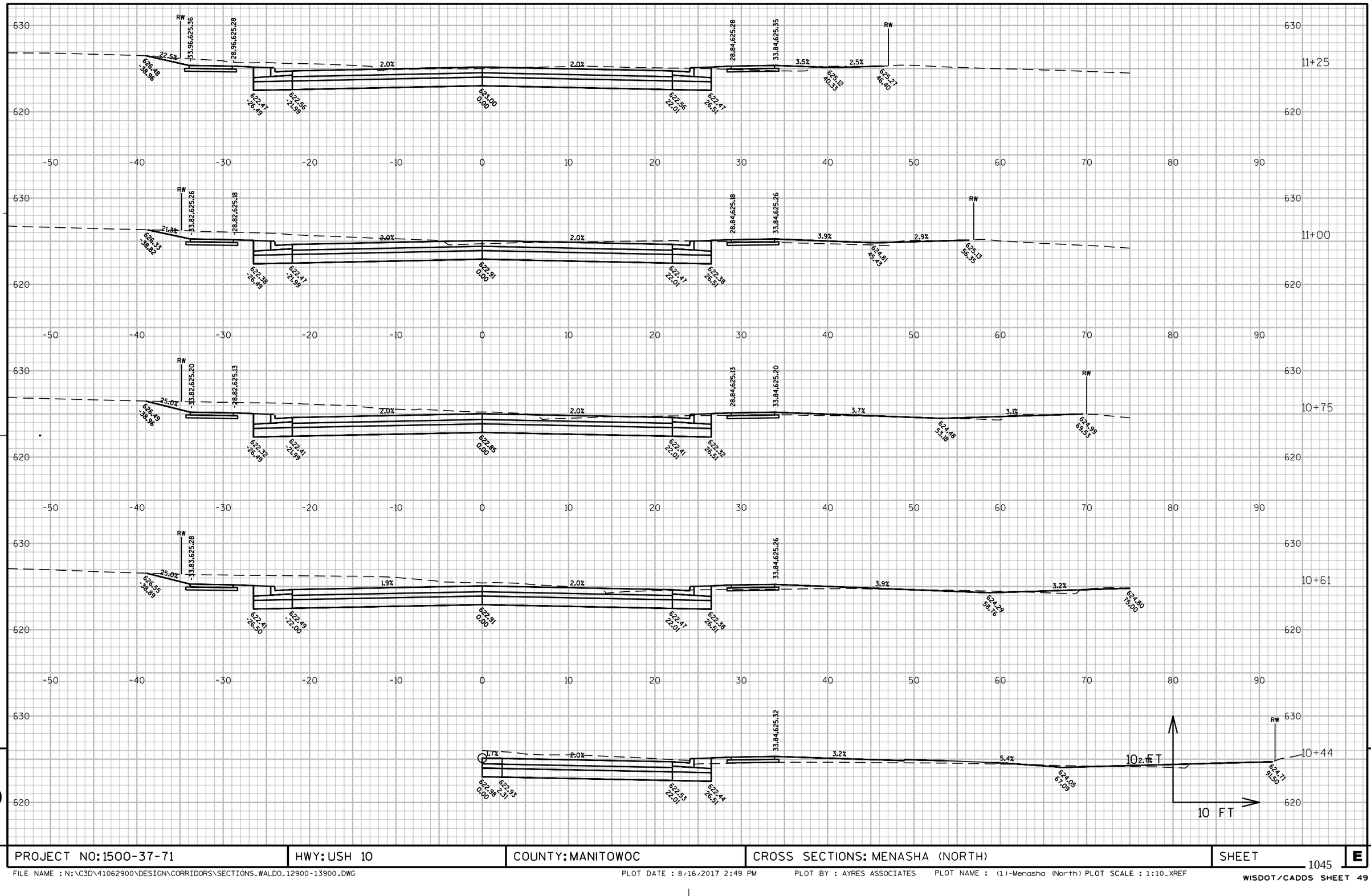
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: MENASHA (SOUTH)	SHEET 1044	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_12900-13900.DWG
LAYOUT NAME - MENASHA (SOUTH)

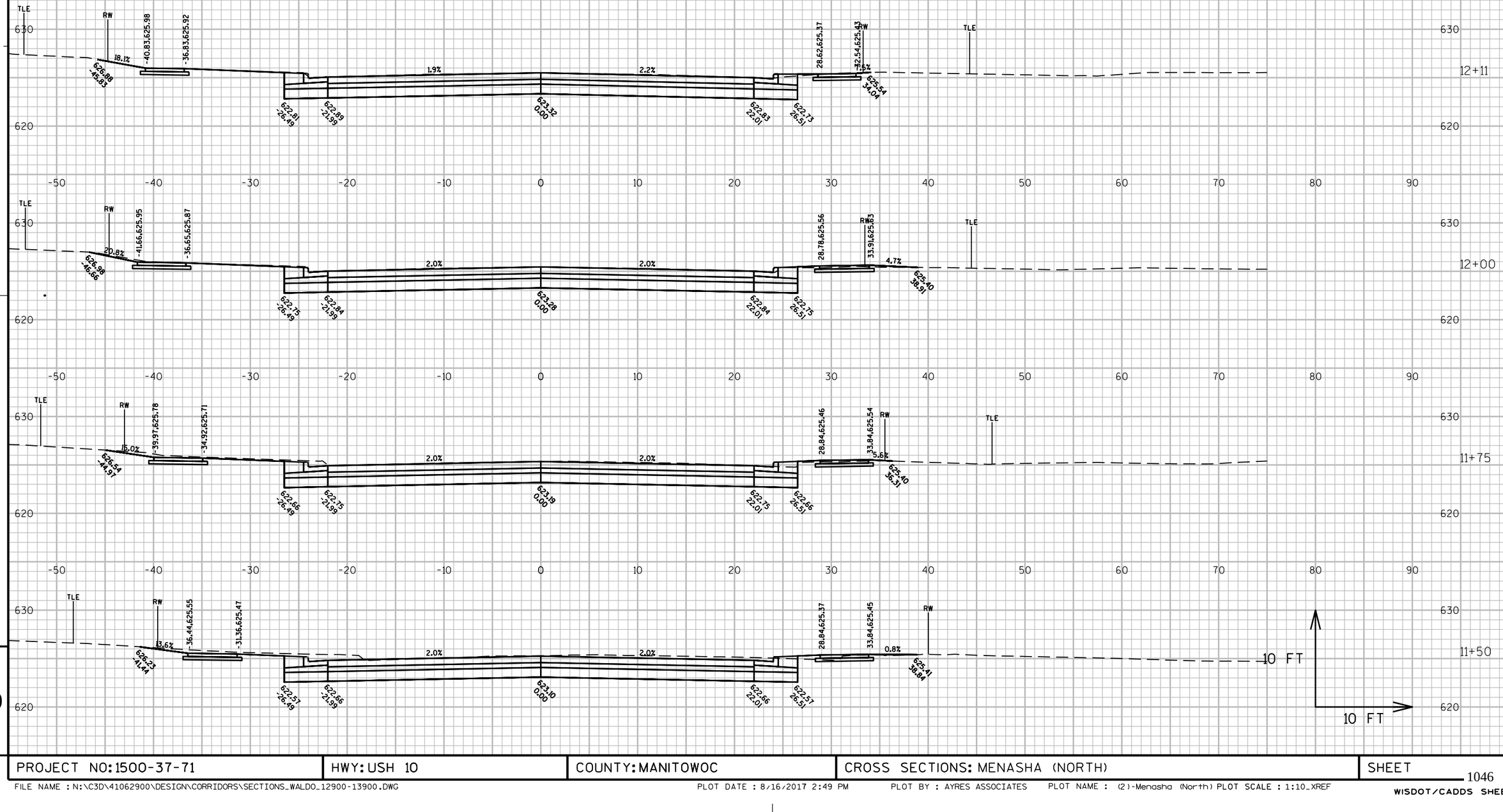
PLOT DATE : 8/16/2017 2:49 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (2)-Menasha (South) PLOT SCALE : 1 IN:10 FT



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: MENASHA (NORTH)	SHEET 1045	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_12900-13900.DWG PLOT DATE : 8/16/2017 2:49 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1)-Menasha (North) PLOT SCALE : 1:10_XREF

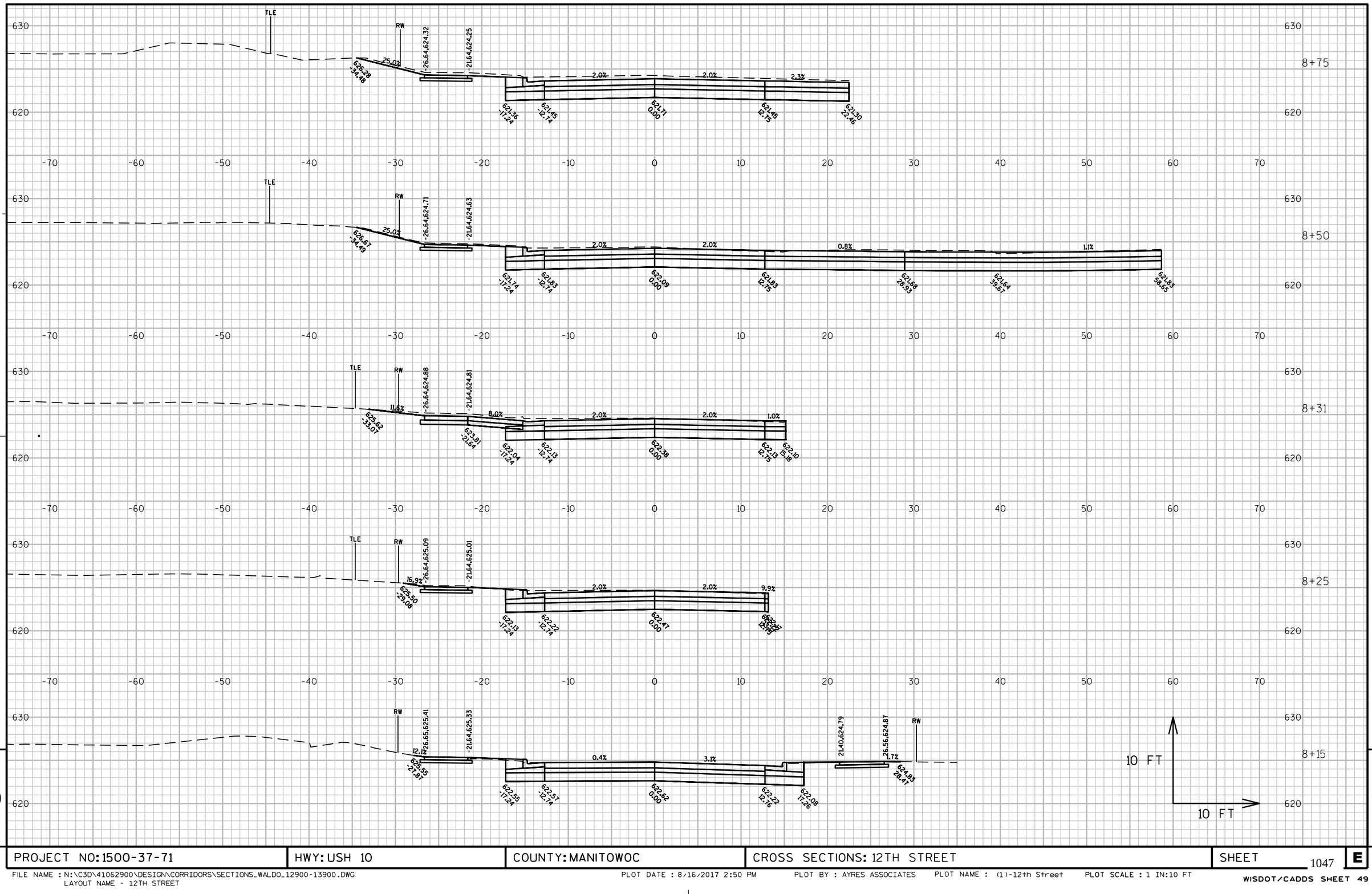
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: MENASHA (NORTH)	SHEET 1046	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_12900-13900.DWG PLOT DATE : 8/16/2017 2:49 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (2)-Menasha (North) PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 49

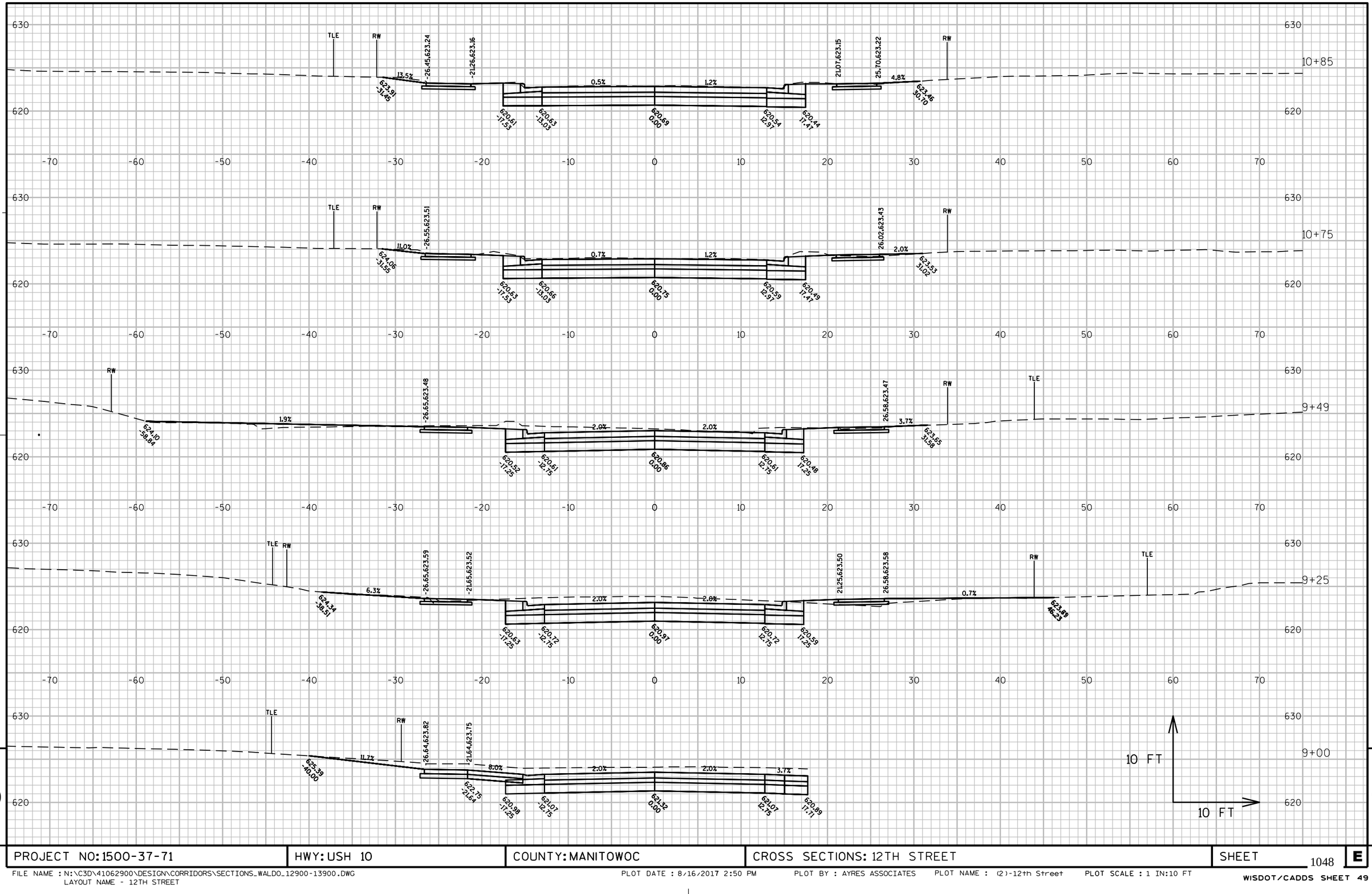


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: 12TH STREET	SHEET 1047 E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_12900-13900.DWG
LAYOUT NAME - 12TH STREET

PLOT DATE : 8/16/2017 2:50 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1)-12th Street PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

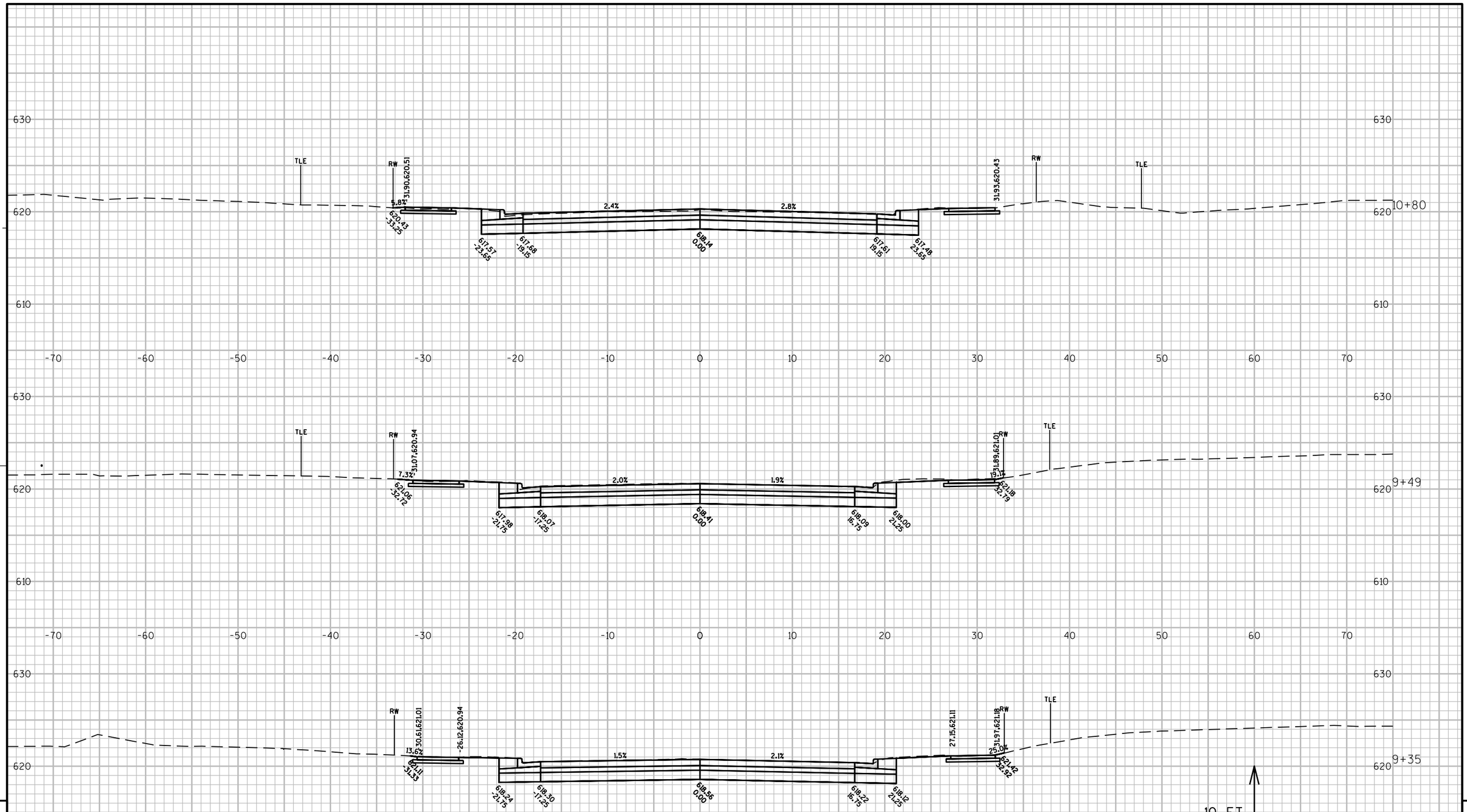


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: 12TH STREET	SHEET 1048	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_12900-13900.DWG
LAYOUT NAME - 12TH STREET

PLOT DATE : 8/16/2017 2:50 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (2)-12th Street PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

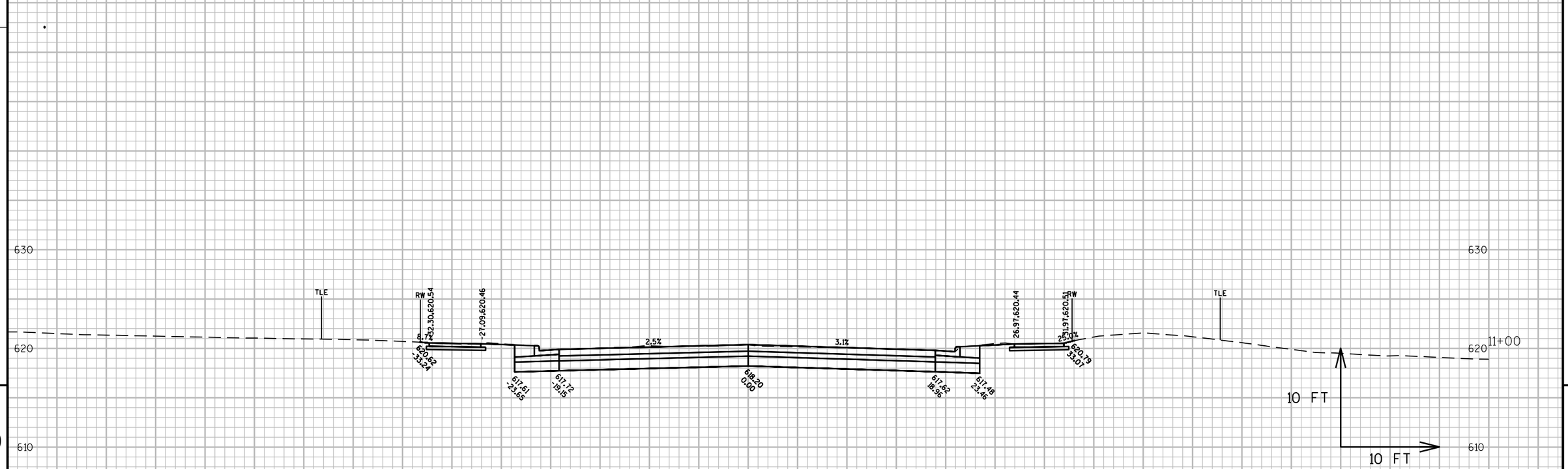


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: 11TH STREET	SHEET 1049	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - (1)-11TH STREET

PLOT DATE : 8/16/2017 2:53 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1)-11th Street PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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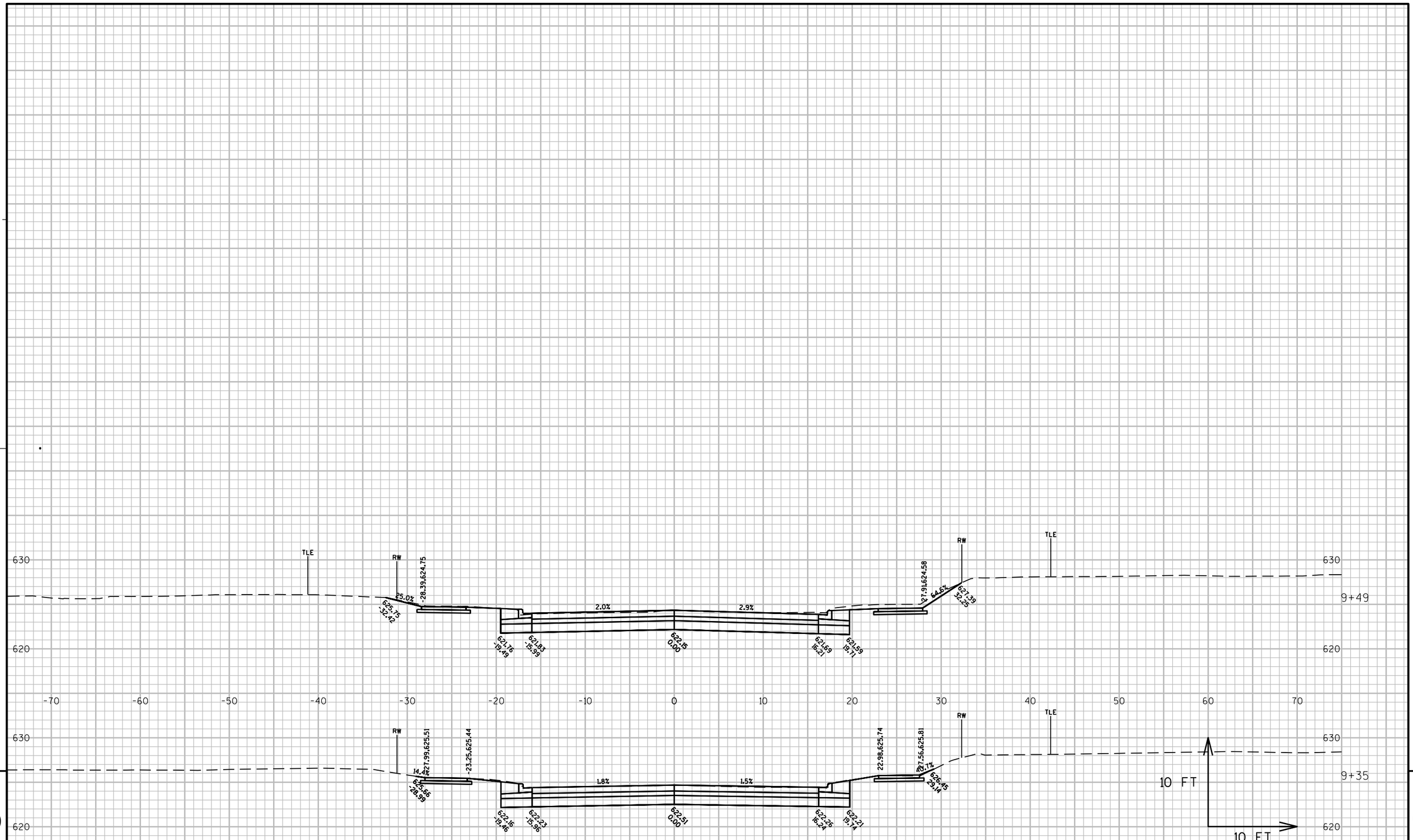
PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: 11TH STREET	SHEET 1050	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - (2)-11TH STREET

PLOT DATE : 8/16/2017 2:53 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (2)-11th Street PLOT SCALE : 1 IN:10 FT

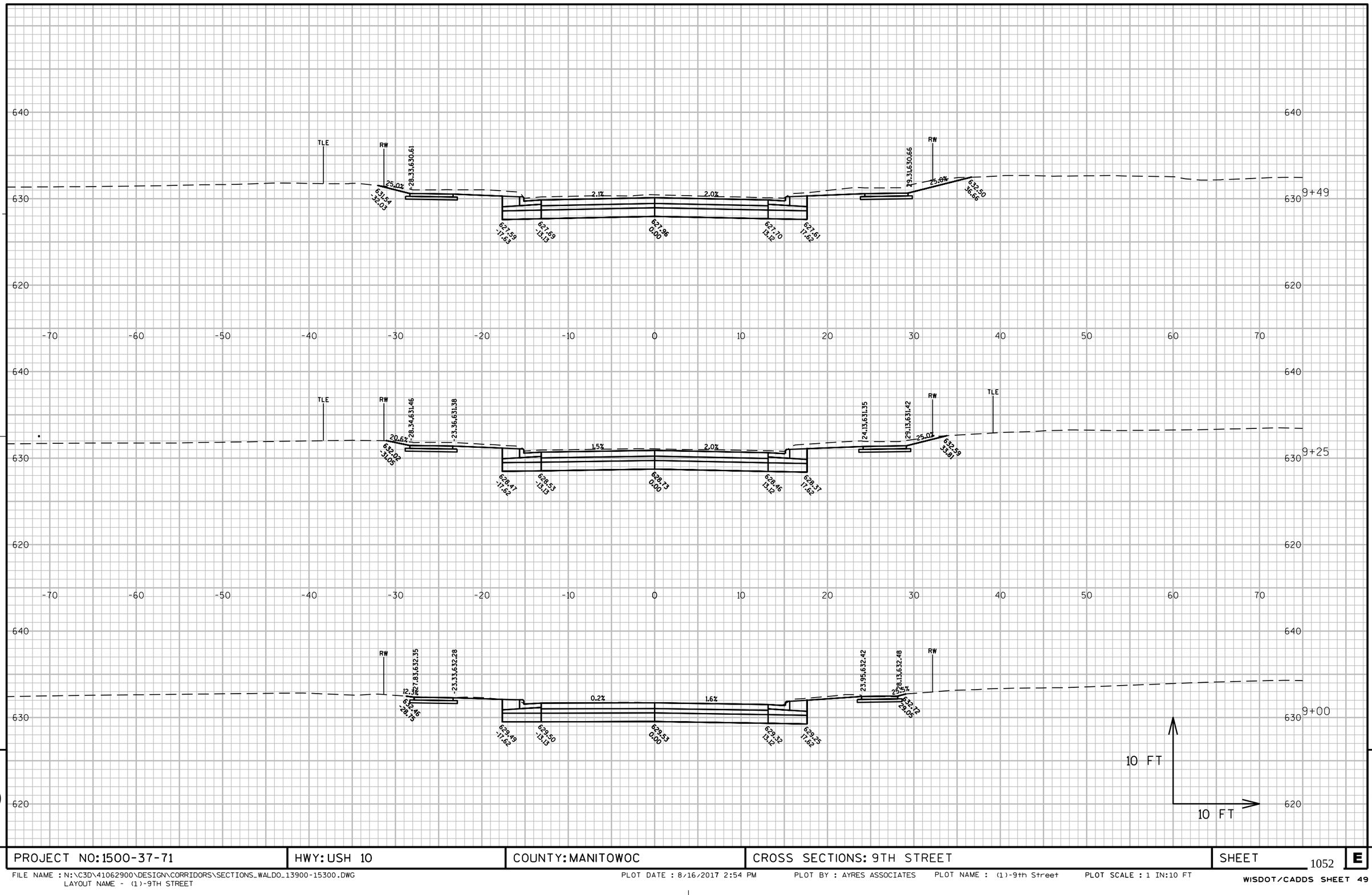


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: 10TH STREET	SHEET 1051	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - (1)-10TH STREET

PLOT DATE : 8/16/2017 2:54 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1)-10th Street PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

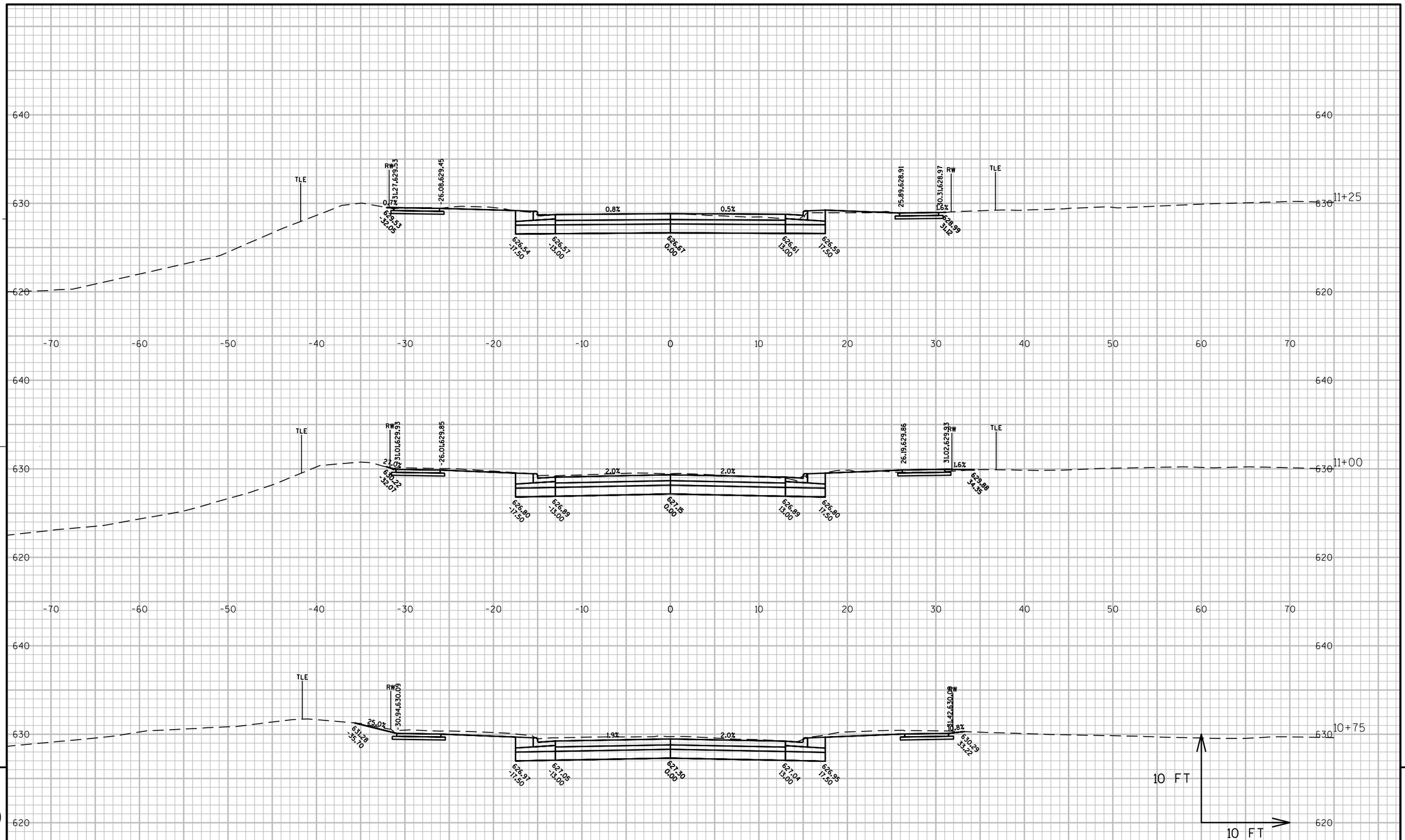


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: 9TH STREET	SHEET 1052	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - (1)-9TH STREET

PLOT DATE : 8/16/2017 2:54 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1)-9th Street PLOT SCALE : 1 IN:10 FT

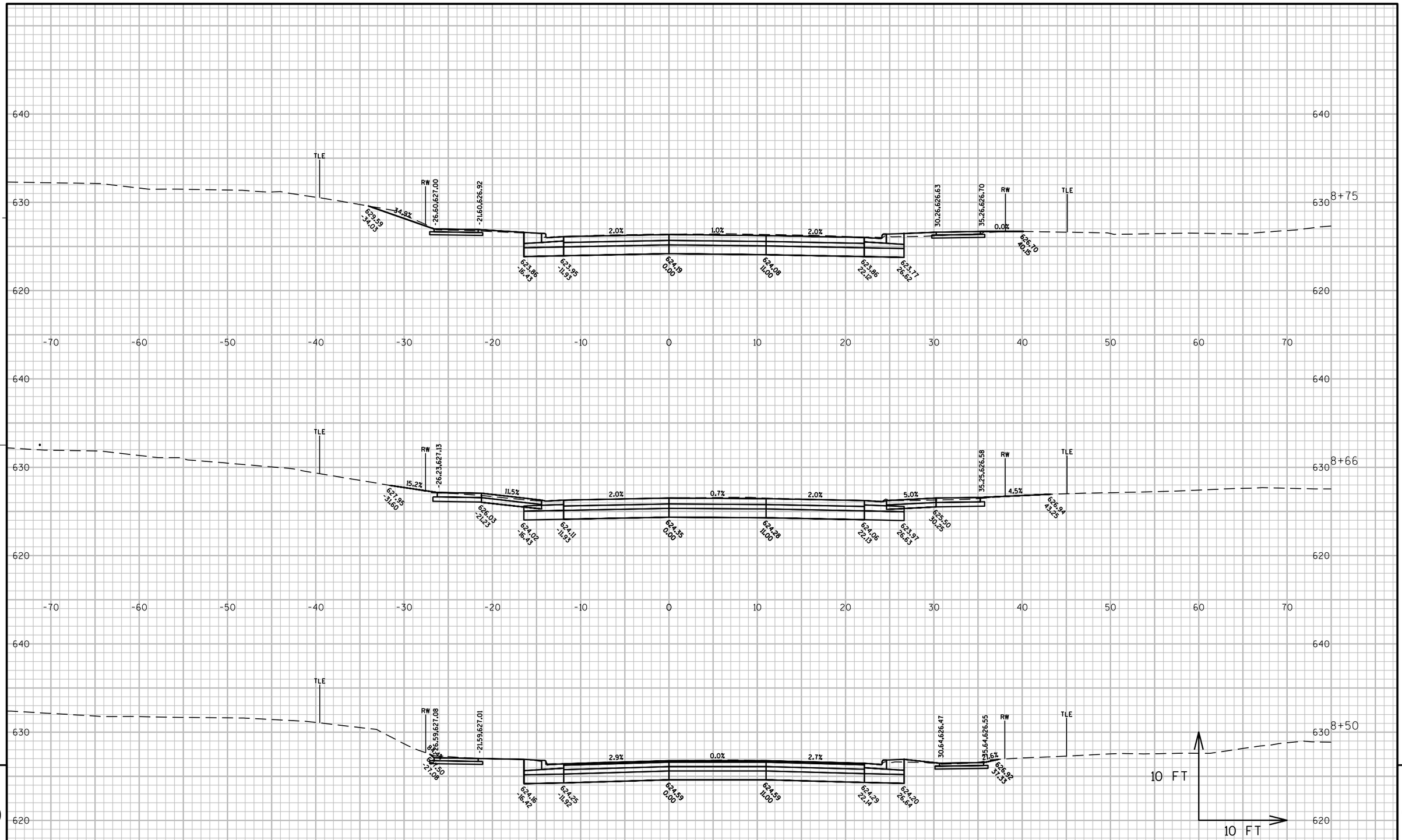
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: 9TH STREET	SHEET 1053	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - (2)-9TH STREET

PLOT DATE : 8/17/2017 9:58 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : (2)-9th Street PLOT SCALE : 1 IN:10 FT

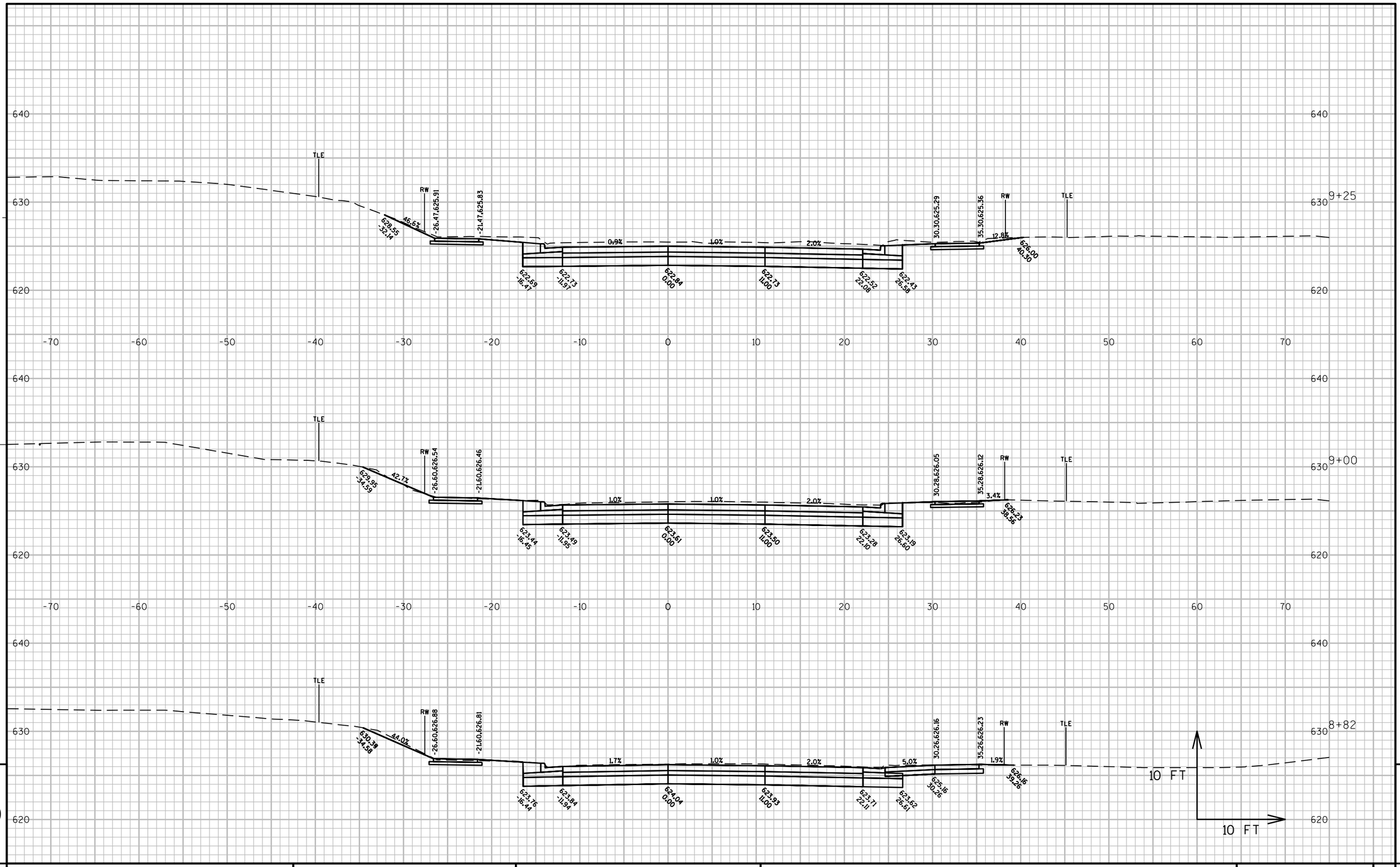


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: 8TH STREET	SHEET 1054	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - (1)-8TH STREET

PLOT DATE : 8/16/2017 2:55 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1)-8th Street PLOT SCALE : 1 IN:10 FT

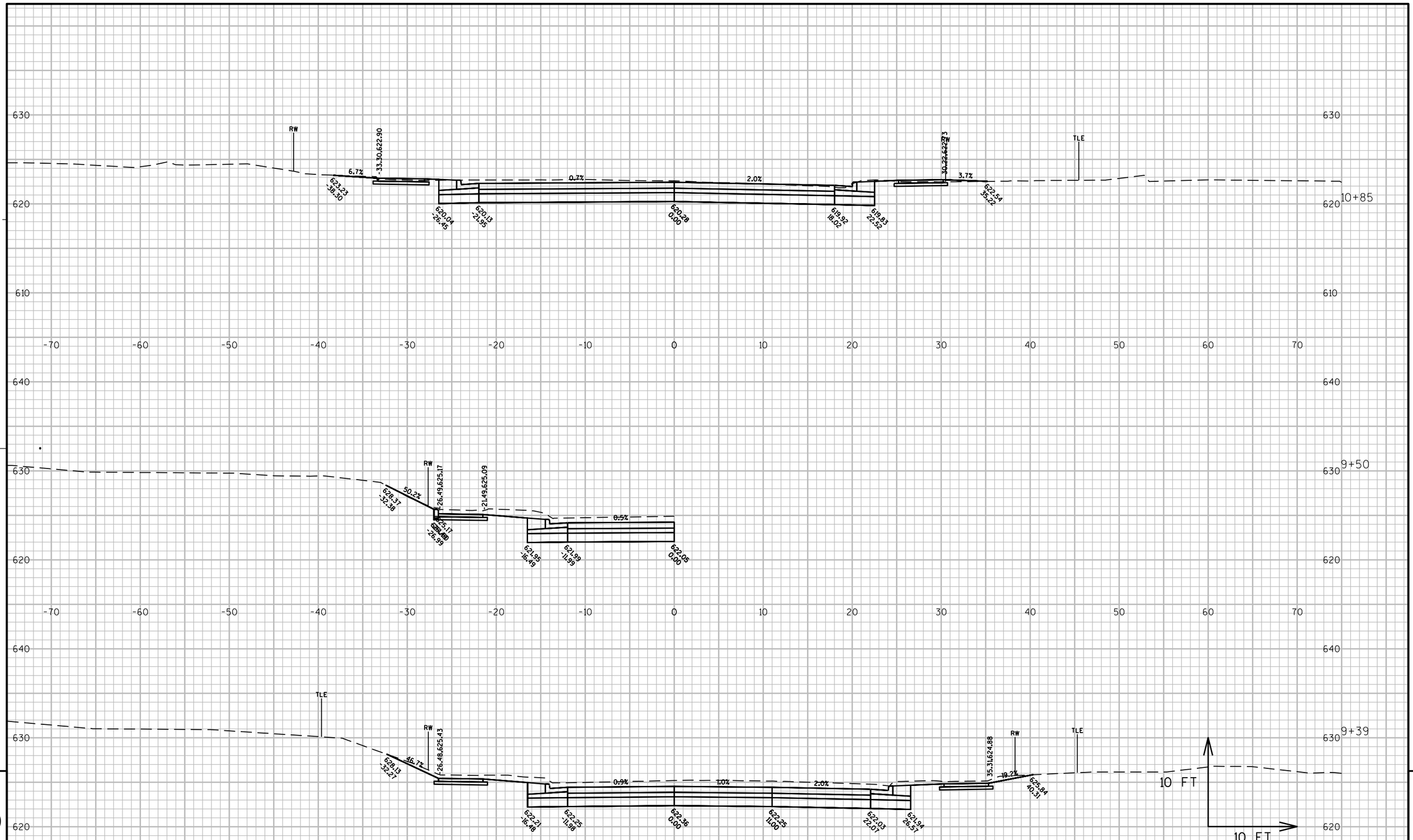
WISDOT/CADDS SHEET 49



PROJECT NO:1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: 8TH STREET	SHEET 1055	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - (2)-8TH STREET

PLOT DATE : 8/16/2017 2:55 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (2)-8th Street PLOT SCALE : 1 IN:10 FT

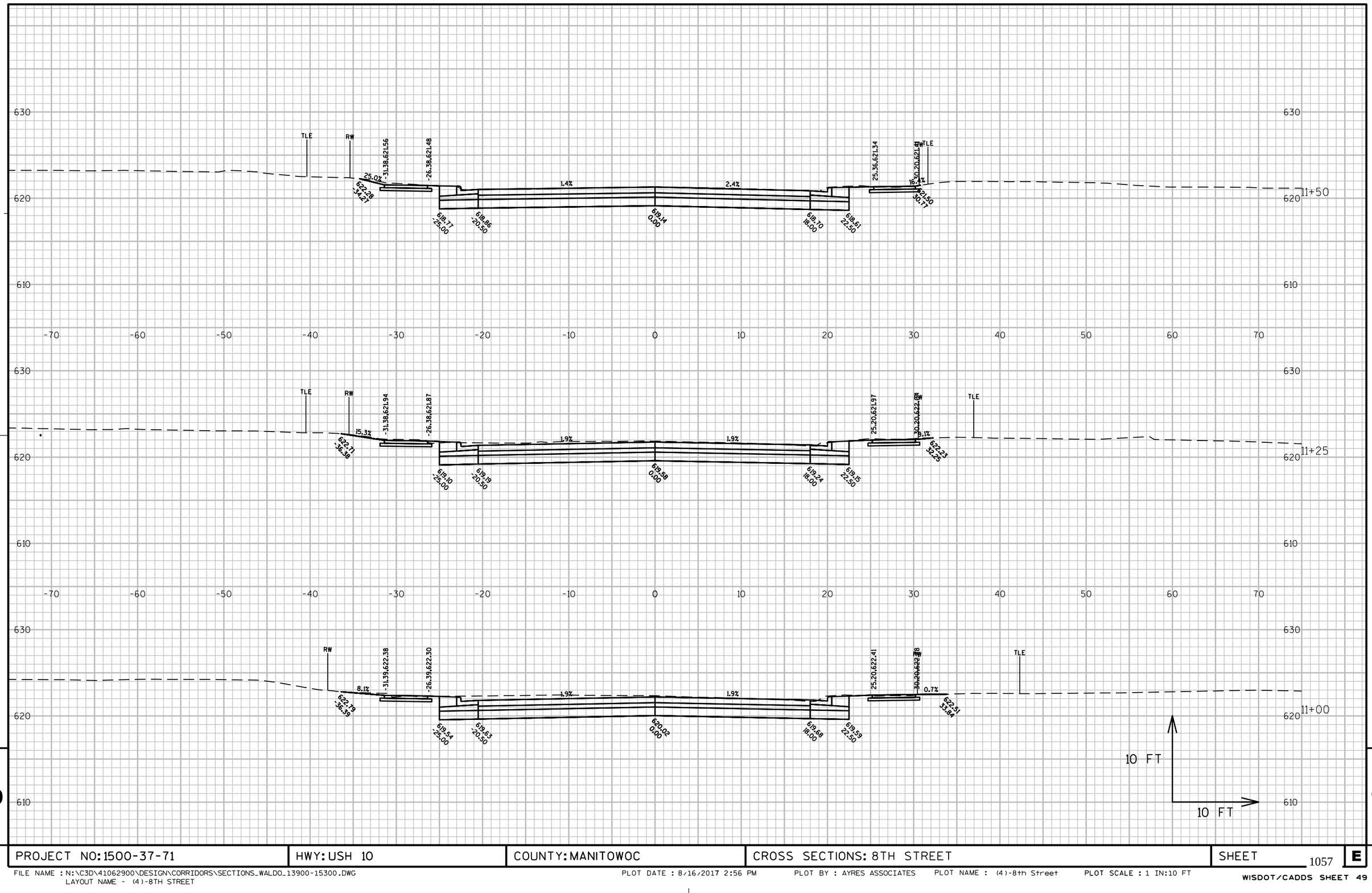


PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: 8TH STREET	SHEET 1056	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - (3)-8TH STREET

PLOT DATE : 8/16/2017 2:56 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (3)-8th Street PLOT SCALE : 1 IN:10 FT

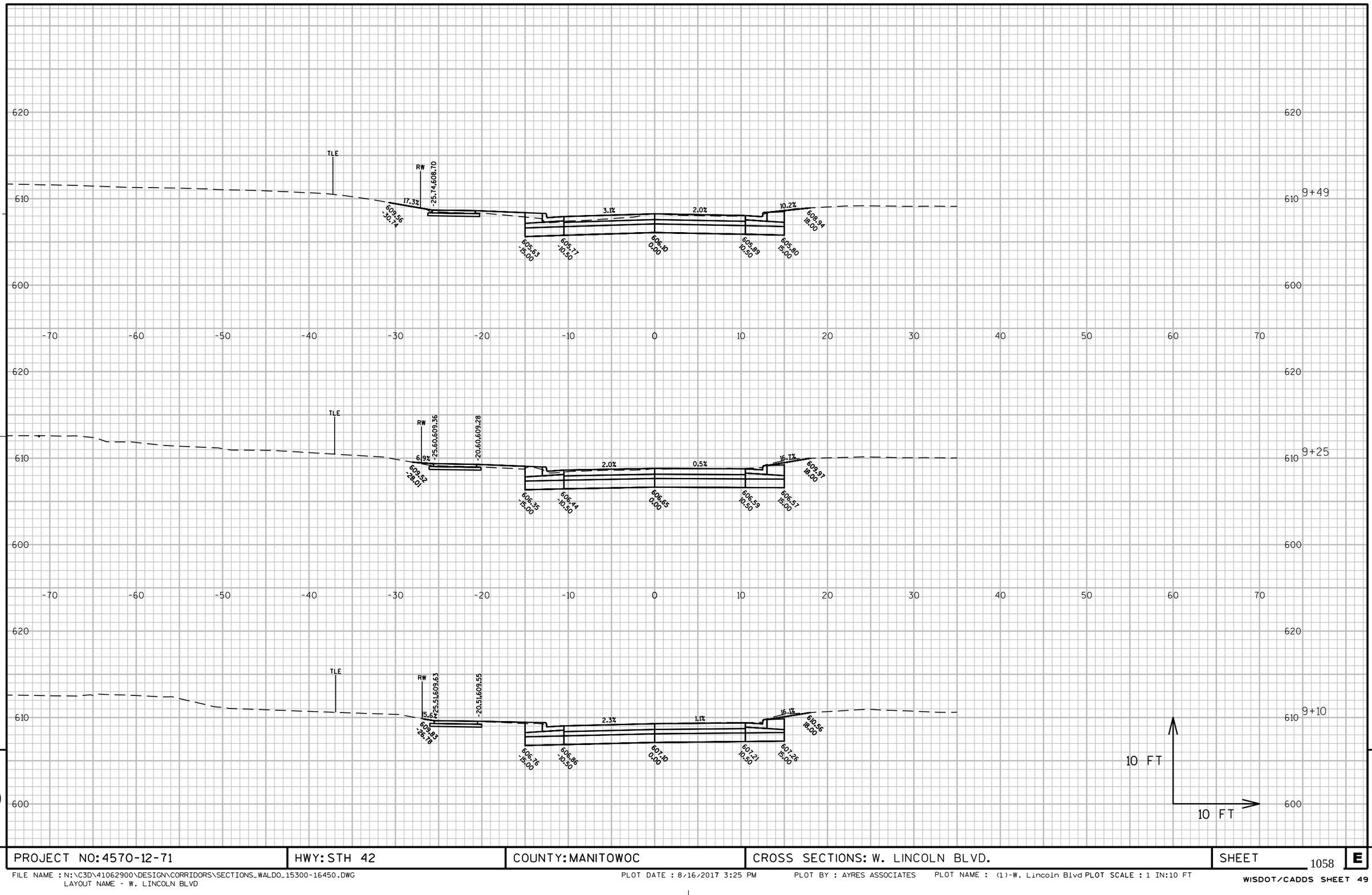
WISDOT/CADDS SHEET 49



PROJECT NO: 1500-37-71	HWY: USH 10	COUNTY: MANITOWOC	CROSS SECTIONS: 8TH STREET	SHEET 1057	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_13900-15300.DWG
LAYOUT NAME - (4)-8TH STREET

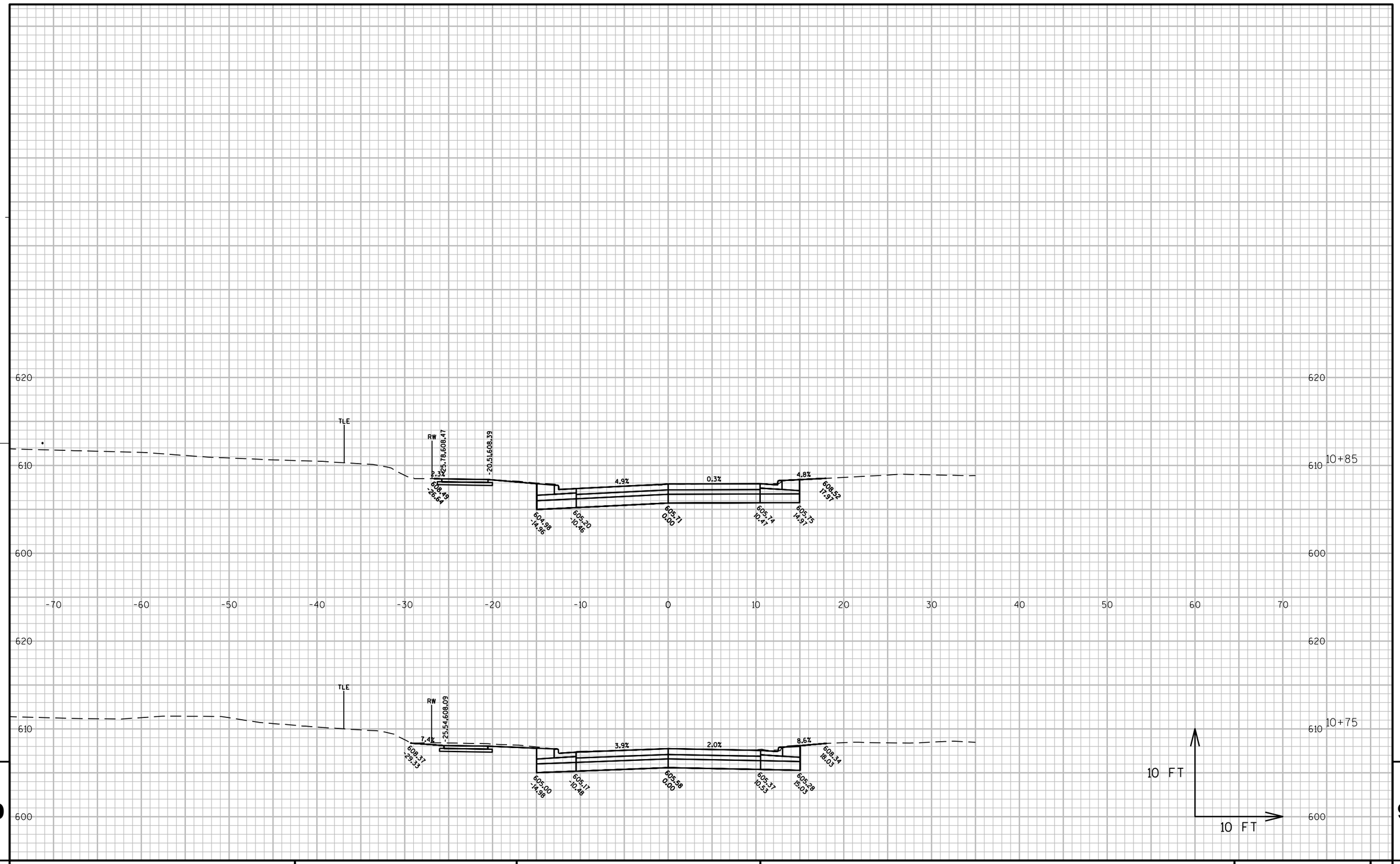
PLOT DATE : 8/16/2017 2:56 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (4)-8th Street PLOT SCALE : 1 IN:10 FT



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: W. LINCOLN BLVD.	SHEET 1058	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_15300-16450.DWG
LAYOUT NAME - W. LINCOLN BLVD

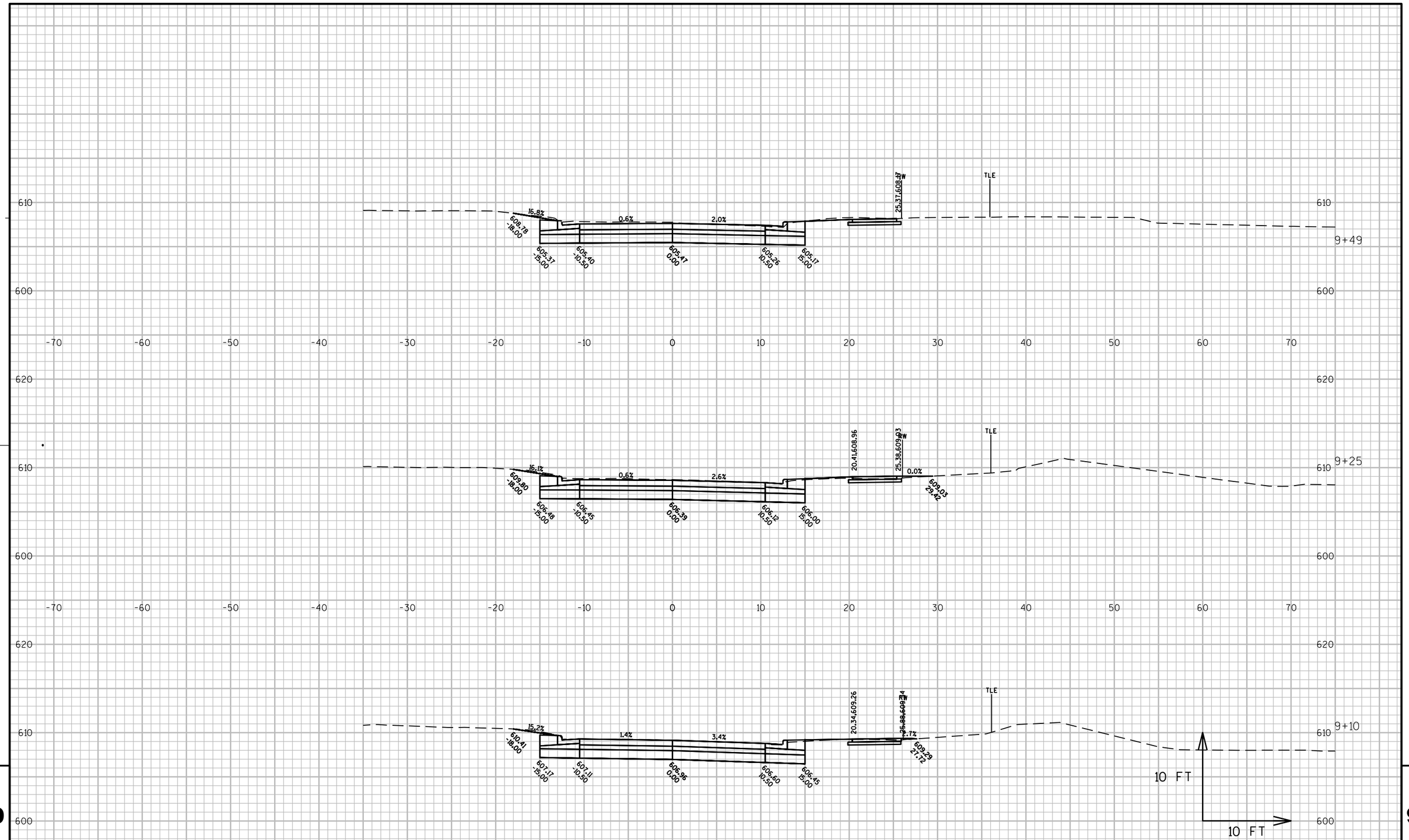
PLOT DATE : 8/16/2017 3:25 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1)-W. Lincoln Blvd PLOT SCALE : 1 IN:10 FT



PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: W. LINCOLN BLVD.	SHEET 1059	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_15300-16450.DWG
LAYOUT NAME - W. LINCOLN BLVD

PLOT DATE : 8/16/2017 3:26 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (2)-W. Lincoln Blvd PLOT SCALE : 1 IN:10 FT



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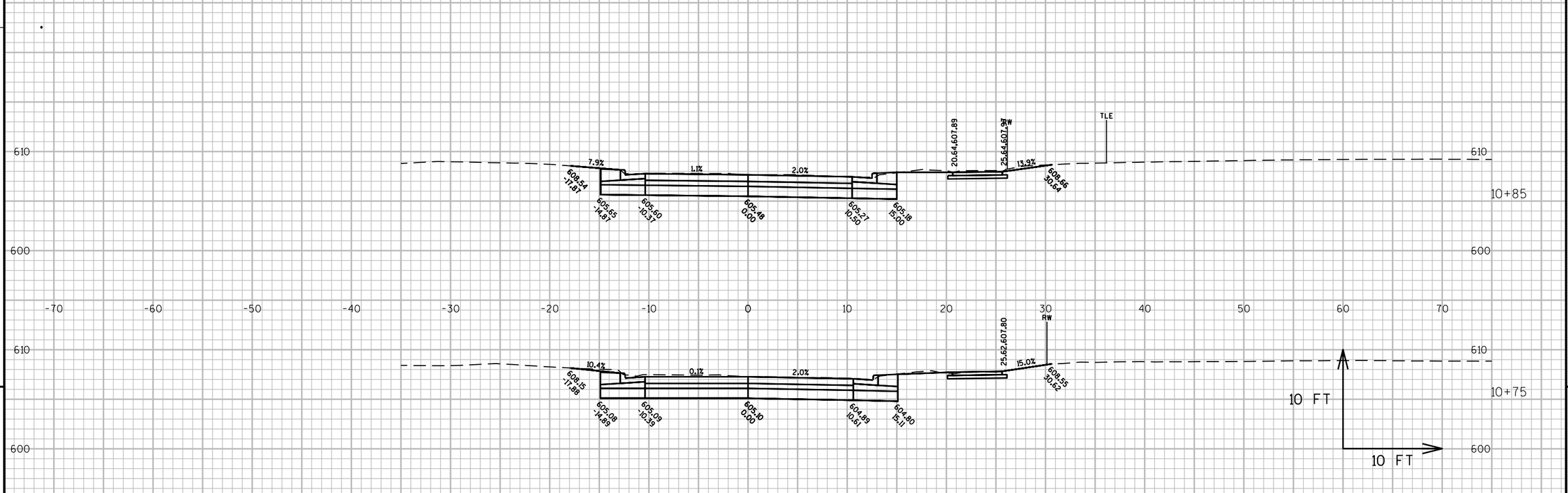
PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: E. LINCOLN BLVD.	SHEET 1060	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_15300-16450.DWG
LAYOUT NAME - E. LINCOLN BLVD

PLOT DATE : 8/16/2017 3:26 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1)-E. Lincoln Blvd PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

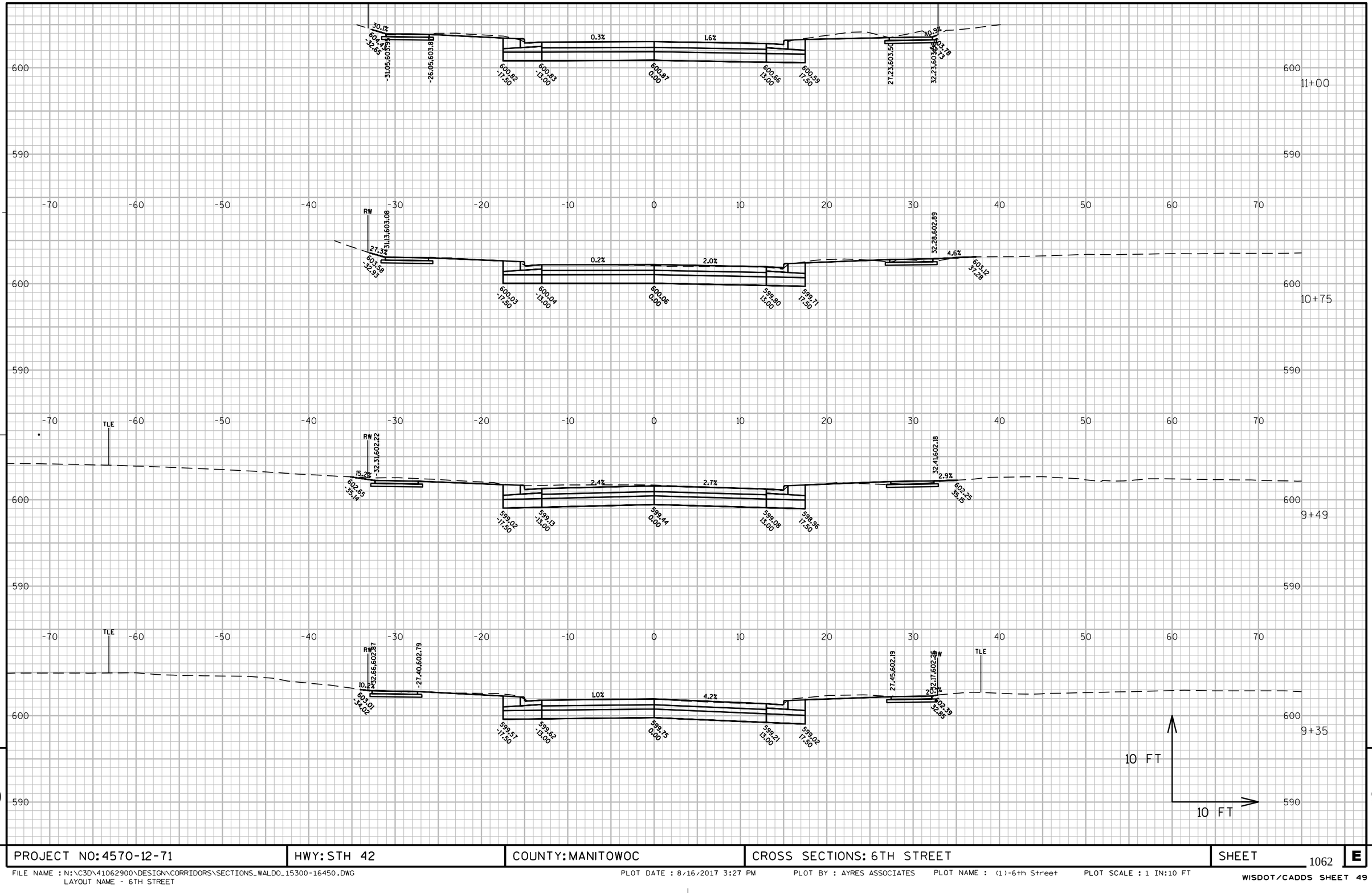


PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: E. LINCOLN BLVD.	SHEET 1061	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_15300-16450.DWG
LAYOUT NAME - E. LINCOLN BLVD

PLOT DATE : 8/16/2017 3:26 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (2)-E. Lincoln Blvd PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

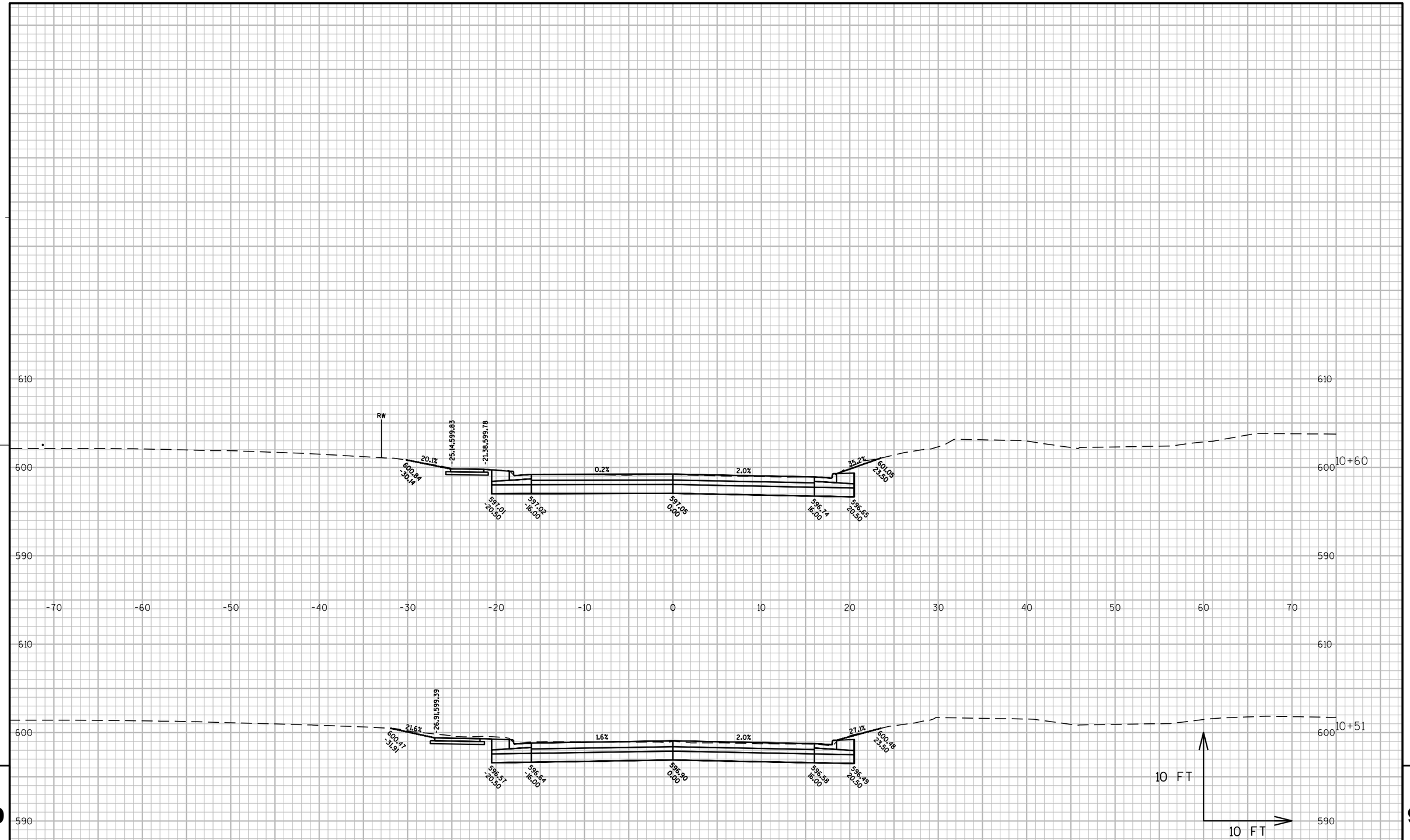


PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: 6TH STREET	SHEET 1062	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_15300-16450.DWG
LAYOUT NAME - 6TH STREET

PLOT DATE : 8/16/2017 3:27 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1)-6th Street PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 4570-12-71	HWY: STH 42	COUNTY: MANITOWOC	CROSS SECTIONS: 5TH STREET	SHEET 1063	E

FILE NAME : N:\C3D\41062900\DESIGN\CORRIDORS\SECTIONS_WALDO_15300-16450.DWG
LAYOUT NAME - 5TH STREET

PLOT DATE : 8/16/2017 3:27 PM PLOT BY : AYRES ASSOCIATES PLOT NAME : (1)-5th Street PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

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