GRE DECEMBER 2016

PROJECT ID: 1470-18-71/1470-18-72

WITH: N/A

COUNTY: MANITOWOC

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 = 334

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

LINCOLN AVENUE, CITY OF TWO RIVERS

(22ND STREET - 35TH PLACE)

STH 42

MANITOWOC COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1470-18-71	WISC 2016479	1
1470-18-72	———	———

STATE PROJECT NUMBER	STATE PROJECT NUMBER
1470-18-71	1470-18-72
ROADWAY	LOCAL UTILITIES



PROJECT LOCATION

19

DESIGN DESIGNATION

A.A.D.T. (2017)	=	4,800
A.A.D.T. (2037)	=	5,580
D.H.V. (2037)	=	700
D.D.	=	59/41
T.	=	6.3%
DESIGN SPEED	=	30 mph
ESALS	=	1,189,652

CONVENTIONAL SYMBOLS

PLAN

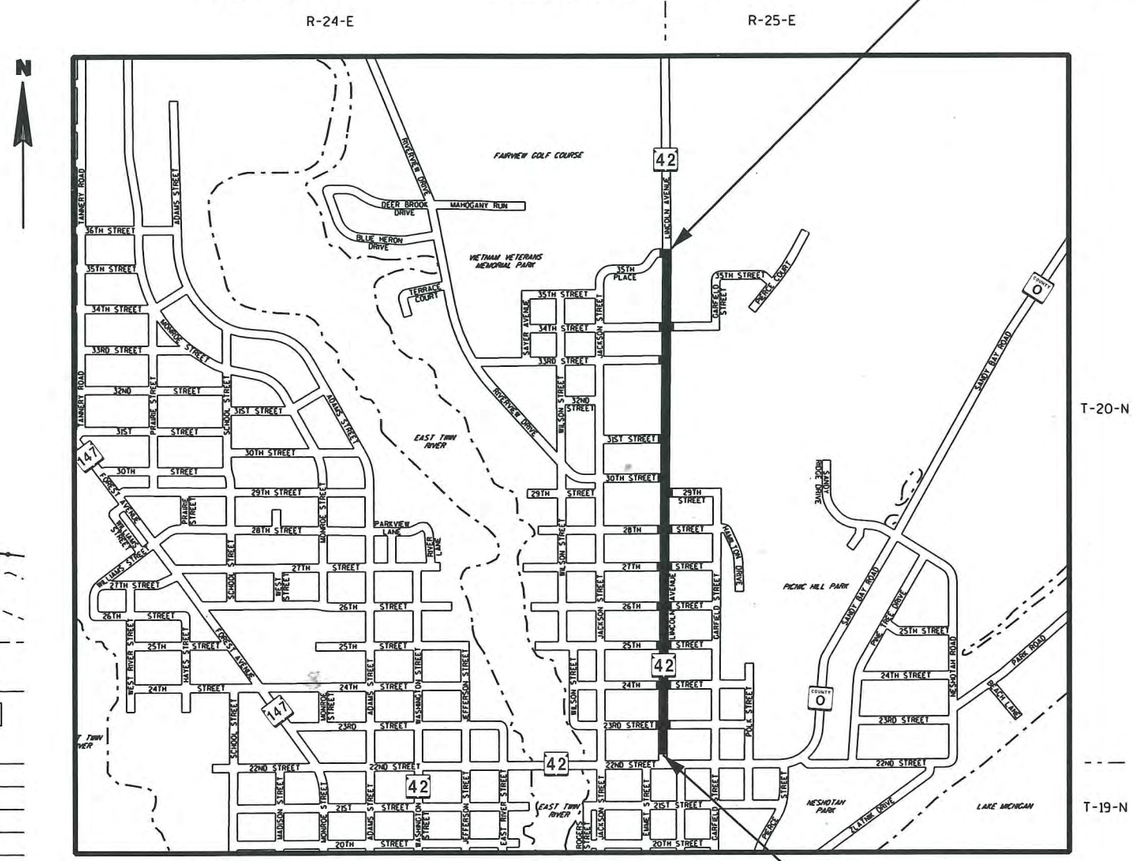
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

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



SCALE 0 0.25 MI. LAYOUT

TOTAL NET LENGTH OF CENTERLINE 1470-18-71 = 0.879 MI.

Coordinates on this plan are referenced to the Wisconsin County Coordinate System (WCCS), Manitowoc County. Elevations shown on this plan are referenced to the North American Vertical Datum of 1988 (NAVD 88).

END PROJECT 1470-18-71
STA. 79+50.00

BEGIN PROJECT 1470-18-71
STA. 33+10.00
Y = 323,406.09
X = 259,420.57

ACCEPTED FOR

City of Two Rivers

July 7, 2016 (Date) (City Administrator)

ORIGINAL PLANS PREPARED BY:

MSA PROFESSIONAL SERVICES
TRANSPORTATION • MUNICIPAL • REMEDIATION
DEVELOPMENT • ENVIRONMENTAL

2901 International Lane, Suite 300, Madison, WI 53704
608-242-7779 1-800-446-0679 Fax: 608-242-5664

WISCONSIN PROFESSIONAL ENGINEER
BRIAN G. HUIBREGTSE
E-40465
MADISON
WI

7/6/16 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	City of Two Rivers
Designer	MSA Professional Services, Inc.
Project Manager	Brian Haen
Regional Examiner	
Regional Supervisor	Chuck Karow
C.O. Examiner	

APPROVED FOR THE DEPARTMENT

DATE: 7/8/16 (Signature)

E

2

GENERAL NOTES

INLET OFFSETS GIVEN TO THE CENTER OF STRUCTURE.

ELEVATIONS SHOWN ON THE STORM SEWER SHEETS ARE AT THE CENTER OF STRUCTURE.

STORM SEWER PIPES LENGTHS ARE TO CENTER OF STRUCTURES.

THE MINI STORM SEWER SYSTEM WAS DESIGNED BY SCOTT AHL AT THE CITY OF TWO RIVERS. IF THERE ARE ANY QUESTIONS DURING CONSTRUCTION CONTACT HIM AT (920)793-5542.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS IN THE AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND ALL OTHER UTILITIES IN THE VACINITY OF THE PROJECT TO LOCATE THEIR FACILITIES AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING WORK.

THE LIMITS OF PAVEMENT REMOVAL ON SIDE STREETS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER. REMOVAL LIMITS ON SIDE STREETS WITH CONCRETE PAVEMENT SHALL BE ADJUSTED TO AN EXISTING JOINT AS DIRECTED BY THE ENGINEER.

ALL CURB & GUTTER AND SIDEWALK REMOVAL SHALL BE TO AN EXISTING JOINT AS DIRECTED BY THE ENGINEER.

REMOVING CONCRETE STEPS WILL BE PAID FOR AS REMOVING CONCRETE SIDEWALK.

NO SHRUBS OR TREES ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

CURB & GUTTER PLAN GRADES ARE AT THE FLAG LINE UNLESS OTHERWISE NOTED.

THE LATERAL CLEARANCE BEHIND CURB AND GUTTER IS 2 FEET FROM THE FACE OF CURB.

THE EXACT LOCATION AND WIDTH OF PRIVATE ENTRANCES AND DRIVEWAYS IS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

UNLESS OTHERWISE SHOWN ON THE PLAN, ALL MATCHING DRIVEWAYS AND STREETS SHALL BE SAWCUT. COST OF CUTTING IS TO BE PAID FOR UNDER "SAWING ASPHALT" FOR ASPHALT PAVEMENT OR "SAWING CONCRETE" FOR CONCRETE PAVEMENT.

THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING OR PARKING LANE.

TRANSVERSE CONCRETE JOINT DESIGN AND FIELD LAYOUT TO BE PAID FOR UNDER "CONCRETE PAVEMENT JOINT LAYOUT".

SIDEWALK AND DRIVEWAY ELEVATION GRADES, AS SHOWN ON THE CROSS SECTION PLAN SHEETS, HAVE BEEN ADJUSTED TO MEET ADA GUIDELINES AND MINIMIZE THE GRADE SLOPE BREAKS REQUIRED TO MATCH INTO DRIVEWAYS, PRIVATE WALKS AND CURB RAMPS.

SEE SUBSURFACE EXPLORATIONS REPORTS FOR SOIL BORING INFORMATION. REPORTS ARE AVAILABLE FROM WISDOT NE PROJECT SECTION, BRIAN HAEN, PHONE 920-366-4788.

FOR THE PERPETUATION OF THE LANDMARK REFERENCE MONUMENTS CONTACT CORMAC MCINNIS, NER SURVEY COORDINATOR, AT 920-492-5638.

EROSION CONTROL DEVICES AS SHOWN ON THE EROSION CONTROL SHEETS ARE AT SUGGESTED LOCATIONS. THE EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER. ALL EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE DEVICE IS NO LONGER NECESSARY.

EROSION CONTROL DEVICES SHALL BE PLACED IN SEQUENCE WITH CONSTRUCTION OPERATIONS AND MAINTAINED AS DETERMINED BY THE ENGINEER.

ORDER OF TYPICAL SECTION & DETAIL SHEETS

1. GENERAL NOTES
2. PROJECT OVERVIEW
3. TYPICAL SECTIONS
4. CONSTRUCTION DETAILS
5. OVERVIEW DETAILS
6. PAVING DETAILS
7. CURB RAMP DETAILS
8. EROSION CONTROL
9. STORM SEWER
10. SANITARY SEWER & WATERMAIN
11. PLANTING DETAILS
12. PERMANENT SIGNING AND PAVEMENT MARKINGS
13. STREET LIGHTING
14. TRAFFIC CONTROL OVERVIEW
15. PEDESTRIAN DETOUR SIGNING
16. DETOUR SIGNING DETAILS
17. ALIGNMENT OVERVIEW
18. CONTROL POINT TIES

DESIGN CONTACTS

WISCONSIN DEPARTMENT OF TRANSPORTATION
ATTN: BRIAN HAEN
NE REGION REPRESENTATIVE
944 VANDERPERREN WAY
GREEN BAY, WI 54304
PHONE: (920)366-4788
EMAIL:brian.haen@dot.wi.gov

MSA PROFESSIONAL SERVICES
ATTN: BRIAN HUIBREGTSE
2901 INTERNATIONAL LANE, SUITE 300
MADISON, WI 53704
PHONE: (608)242-6650
EMAIL: bhuibregtse@msa-ps.com

DEPARTMENT OF NATURAL RESOURCES
ATTN: MATT SCHAEVE
2984 SHAWANO AVENUE
GREEN BAY, WI 54313
PHONE: (920)662-5472
EMAIL: matthew.schaeve@wisconsin.gov

STANDARD ABBREVIATIONS

AC	ACRES
AEW	APRON ENDWALL
AH	AHEAD
ALUM.	ALUMINUM
A.P.	ACCESS POINT
ASPH	ASPHALT
BAD	BASE AGGREGATE DENSE
BK	BACK
BLK	BLOCK
BOC	BACK OF CURB
BOW	BACK OF SIDEWALK
BM	BENCHMARK
CL or C/L	CENTERLINE
Δ.	CENTRAL ANGLE or DELTA
C.O.	CLEAN OUT
CONC	CONCRETE
CSM	CERTIFIED SURVEY MAP
CTH	COUNTY TRUNK HIGHWAY
CY	CUBIC YARD
D	DEGREE OF CURVE
DIA	DIAMETER
E	EAST
EB	EASTBOUND
EBS	EXCAVATION BELOW SUBGRADE
EOP	EDGE OF PAVEMENT
ET AL	AND OTHERS
EXIST or EX.	EXISTING
EW	END WALL
FOC	FACE OF CURB
FT	FOOT
FT2	SQUARE FEET
GN	GRID NORTH
GV	GAS VALVE
HB	HOSE BIB
HERCP	HORIZONTAL ELLIPTICAL CONCRETE PIPE
IN	INCH
INV	INVERT
IP	IRON PIPE
L	LENGTH
L	LENGTH OF CURVE
LC	LONG CHORD
LCB	LONG CHORD BEARING
LF	LINEAR FEET
LS	LUMP SUM
LT	LEFT
MH	MANHOLE
MI	MILE
MON	MONUMENT
N	NORTH
NB	NORTHBOUND
NO	NUMBER
PT	POINT
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PL	PROPERTY LINE
POB	POINT OF BEGINNING
R	RADIUS
RP	RADIUS POINT
R	RANGE
RL or R/L	REFERENCE LINE
REQ'D	REQUIRED
RT	RIGHT
R/W	RIGHT-OF-WAY
RD	ROAD
S	SOUTH
SB	SOUTHBOUND
SQ	SQUARE
SAN	SANITARY SEWER
STD	STANDARD
STH	STATE TRUNK HIGHWAY
STM	STORM SEWER
SEC	SECTION
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
STA	STATION
STR	STRUCTURE
SY	SQUARE YARD
T	TANGENT
TAN	TANGENT
TEMP	TEMPORARY
TLE	TEMPORARY LIMITED EASEMENT
TYP	TYPICAL
T or TN	TOWN
W	WEST
WB	WESTBOUND
WM	WATERMAIN
X	EAST GRID COORDINATE
Y	NORTH GRID COORDINATE

UTILITIES

ELECTRIC
TWO RIVERS WATER & LIGHT
ATTN: KEN KOZAK
1415 LAKE STREET
P.O. BOX 87
TWO RIVERS, WI 54241
PHONE: (920)793-5550
EMAIL: kenkoz@two-rivers.org
ATTN: BRIAN DELLEMANN
PHONE: (920)793-7277
EMAIL: bridel@two-rivers.org

STORM SEWER, SANITARY SEWER & WATER MAIN
CITY OF TWO RIVERS
ATTN: JIM McDONALD
1415 LAKE STREET
TWO RIVERS, WI 54241
PHONE: (920)793-5540
EMAIL: jammcd@two-rivers.org
ATTN: SCOTT AHL
PHONE: (920)793-5542
EMAIL: scoahl@two-rivers.org

GAS
WISCONSIN PUBLIC SERVICE
ATTN: LORI BUTRY
700 N. ADAMS STREET
P.O. BOX 19001
GREEN BAY, WI 54307
PHONE: (920)433-1703
FAX: (920)433-1360
EMAIL: LAButry@integrysgroup.com
ATTN: MIKE LOWTHER
933 S. WILDWOOD AVENUE
SHEBOYGAN, WI 53081
PHONE: (920)849-7903
CELL: (920)946-3198
EMAIL: mllowther@wisconsinpublicservice.com

TELECOMMUNICATIONS
CHARTER COMMUNCATIONS
ATTN: NICK FRASE
3315 LINCOLN AVENUE
TWO RIVERS, WI 54241
PHONE: (920)304-6797
CELL: (920)263-0100
FAX: (920)793-3342
EMAIL: nick.frase@charter.com

TELECOMMUNICATIONS
FRONTIER NORTH, INC.
ATTN: ROBERT CHURCH
118 DIVISION STREET
PLYMOUTH, WI 53073
PHONE: (608)837-1881
EMAIL: robert.church@ftr.com
ATTN: DICK ENDSLEY
PHONE: (920)893-7242
EMAIL: richard.j.endsley@ftr.com

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

WISCONSIN POWER AND LIGHT COMPANY (ALLIANT ENERGY) EMERGENCY NUMBERS:
ELECTRIC: THE 24-HOUR TOLL FREE NUMBER IS 1-800-862-6261
GAS: THE 24-HOUR TOLL FREE NUMBER IS 1-800-862-6263

2

2

FAIRVIEW GOLF COURSE

RIVERVIEW DRIVE

DEER BROOK DRIVE

MAHOGANY RUN

BLUE HERON DRIVE

END PROJECT 1470-18-71
STA. 79+50.00

VIETNAM VETERANS MEMORIAL PARK

TERRACE COURT

35TH PLACE

35TH STREET

PIERCE COURT

SAYER AVENUE

JACKSON STREET

GARFIELD STREET

34TH STREET

33RD STREET

32ND STREET

31ST STREET

30TH STREET

29TH STREET

28TH STREET

27TH STREET

26TH STREET

25TH STREET

24TH STREET

23RD STREET

22ND STREET

21ST STREET

20TH STREET

TANNERY ROAD

ADAMS STREET

MONROE STREET

PRAIRIE STREET

SCHOOL STREET

WILSON STREET

FOREST AVENUE

WILLIAMS STREET

PARKVIEW LANE

RIVER LANE

WEST STREET

WEST RIVER STREET

HAYES STREET

LINCOLN AVENUE

HAMILTON DRIVE

WASHINGTON STREET

JEFFERSON STREET

EAST RIVER STREET

ROGERS STREET

EMMET STREET

POLK STREET

PIERCE STREET

MADISON STREET

EAST TWIN RIVER

WEST TWIN RIVER

147

42

42

42

80+00

75+00

70+00

65+00

60+00

55+00

50+00

45+00

40+00

35+00

COUNTY O

SANDY BAY ROAD

SANDY RIDGE DRIVE

POINT BEACH STATE FOREST

PICNIC HILL PARK

PINE TREE DRIVE

NESHOTAH ROAD

PARK ROAD

BEACH LANE

BEGIN PROJECT 1470-18-71
STA. 33+10.00

NESHOTAH PARK

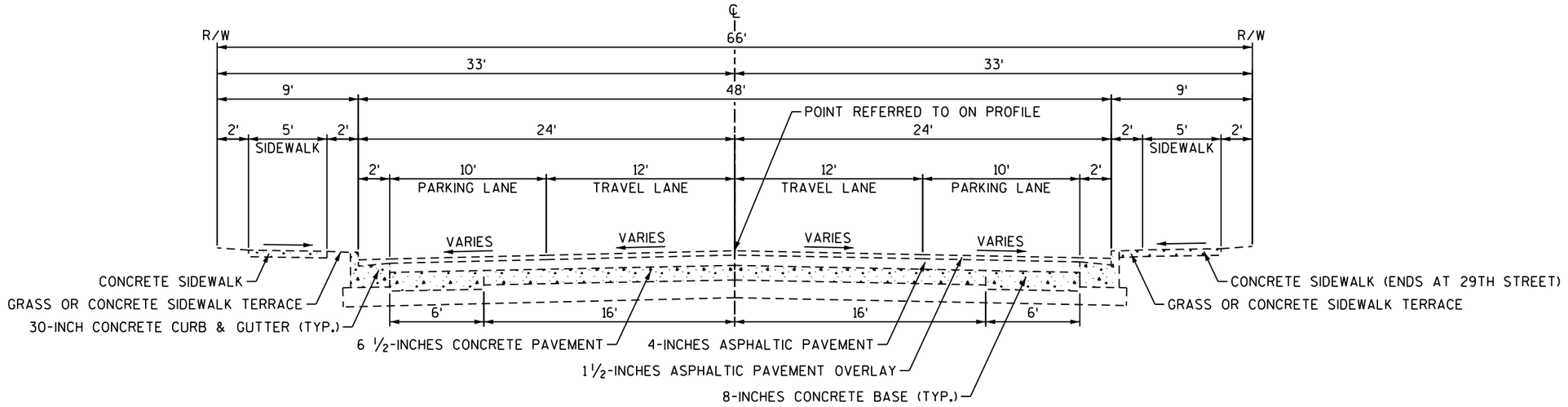
ZLATNIK DRIVE

LAKE MICHIGAN

N

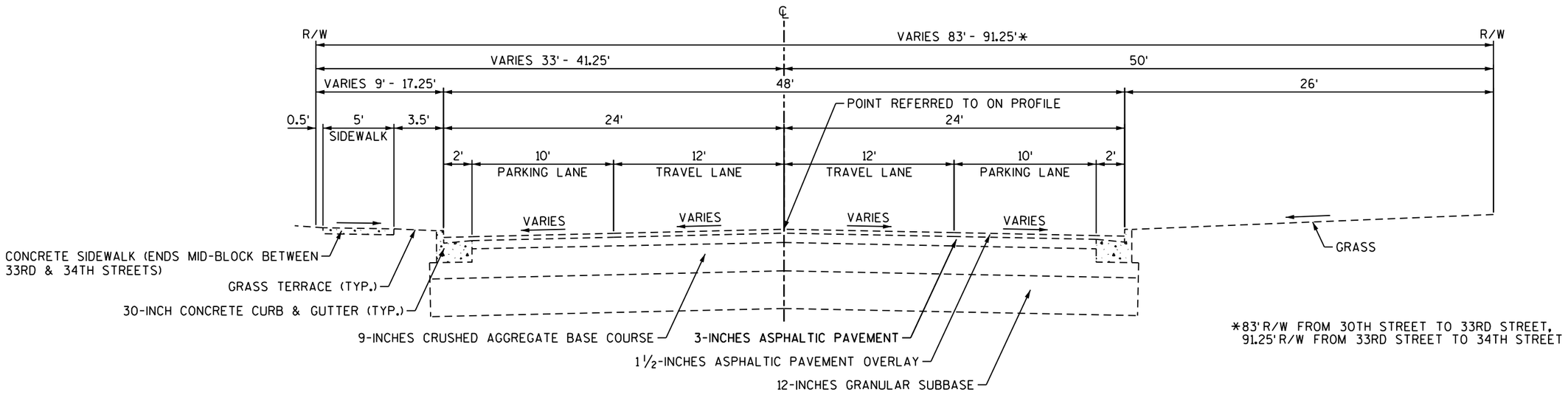
PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PROJECT OVERVIEW	SHEET	E

FILE NAME : P:\90s\93\00093170\CADD\Microstation\Project Overview.dgn
PLOT DATE : 6/1/2016
PLOT BY : jdolens
PLOT NAME :
PLOT SCALE : 1:675.001
WISDOT/CADDS SHEET 42



EXISTING TYPICAL SECTION - LINCOLN STREET (WIS 42)

(22ND STREET - 30TH STREET)
STA. 33+10 - STA. 58+83

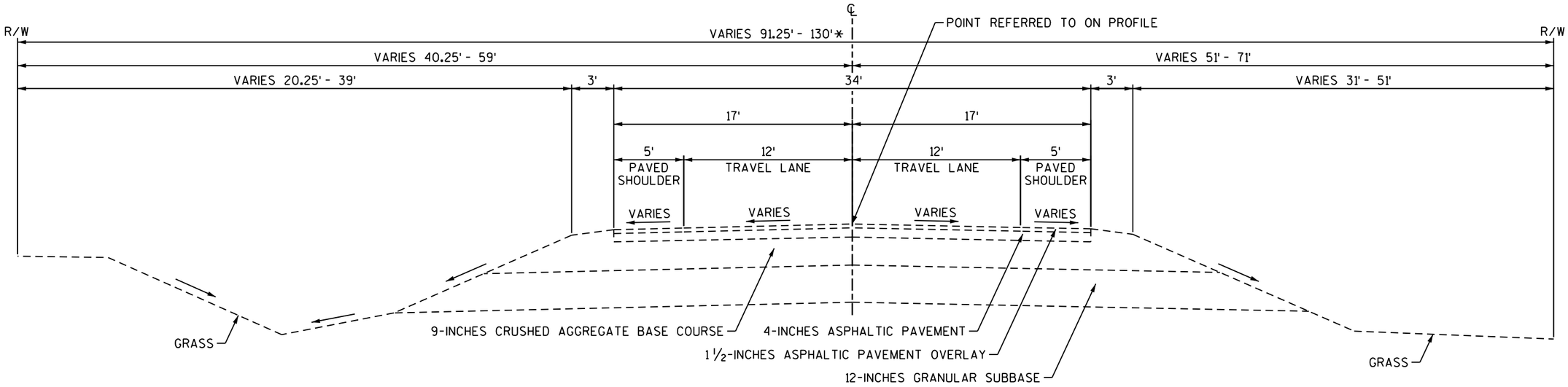


*83' R/W FROM 30TH STREET TO 33RD STREET,
91.25' R/W FROM 33RD STREET TO 34TH STREET

EXISTING TYPICAL SECTION - LINCOLN STREET (WIS 42)

(30TH STREET - 34TH STREET)
STA. 58+83 - STA. 72+25

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	EXISTING TYPICAL SECTIONS	SHEET 4	E



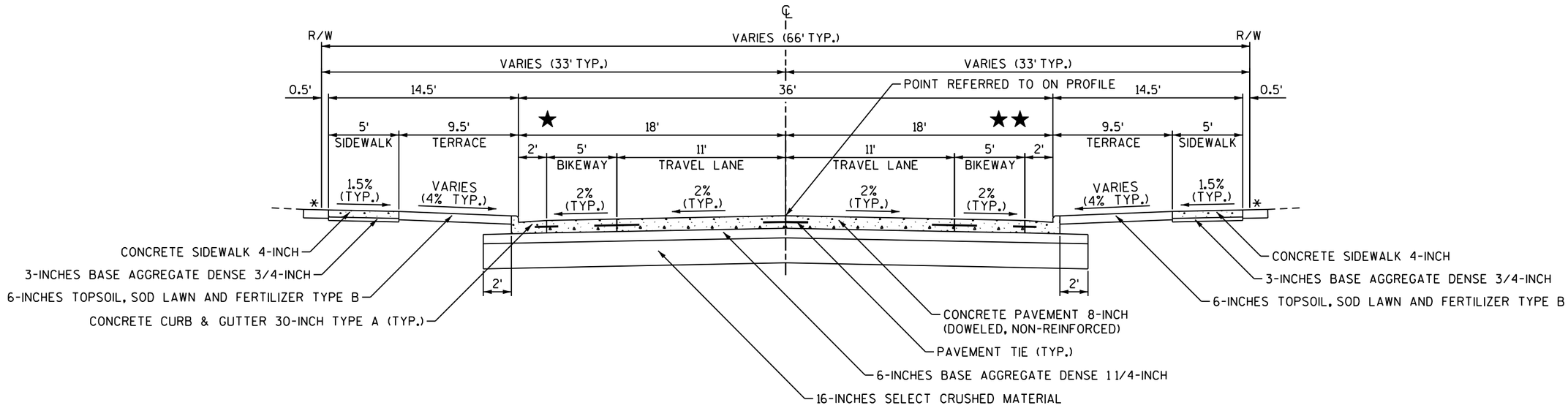
EXISTING TYPICAL SECTION - LINCOLN STREET (WIS 42)

(34TH STREET - 35TH PLACE)
STA. 72+25 - STA. 79+50

*91.25' R/W FROM 34TH STREET TO MID-BLOCK BETWEEN 34TH & 35TH PLACE,
130' R/W FROM MID-BLOCK BETWEEN 34TH & 35TH STREETS TO 35TH PLACE

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	EXISTING TYPICAL SECTIONS	SHEET 5	E

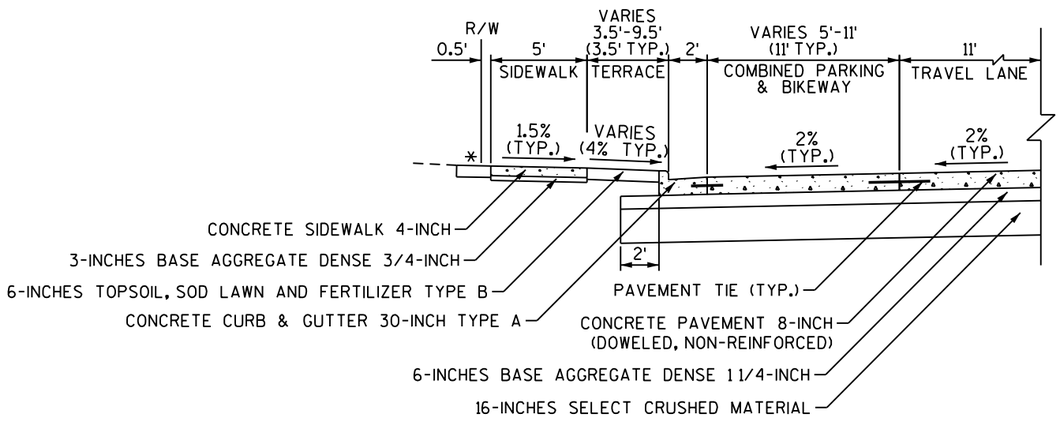
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PLOT DATE : 4/1/2016
PLOT BY : jdolens
PLOT NAME :
PLOT SCALE : 1:7.87502
WISDOT/CADDS SHEET 42



*DISTURBED AREAS BEHIND THE SIDEWALK SHALL BE RESTORED WITH 6-INCHES OF TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B AND MULCH.

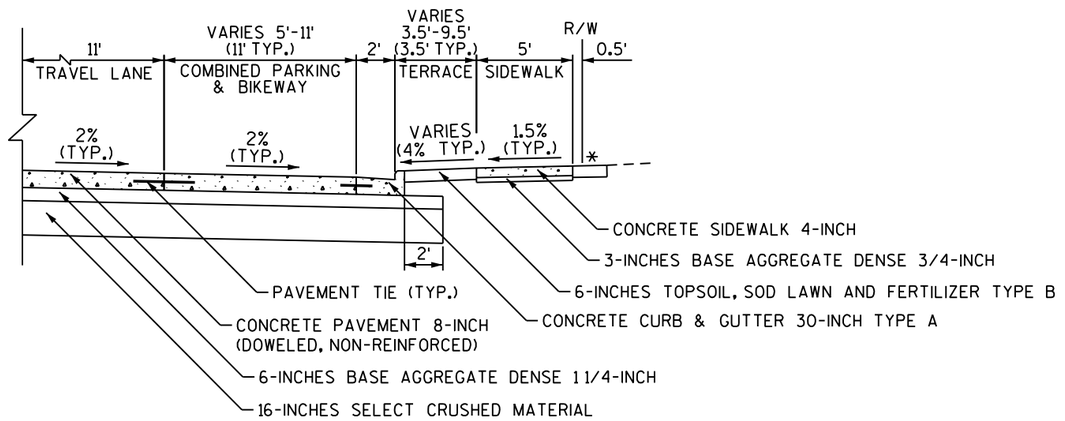
FINISHED TYPICAL SECTION - LINCOLN STREET (WIS 42)

(22ND STREET - 34TH STREET)
STA. 33+10 - STA. 72+50



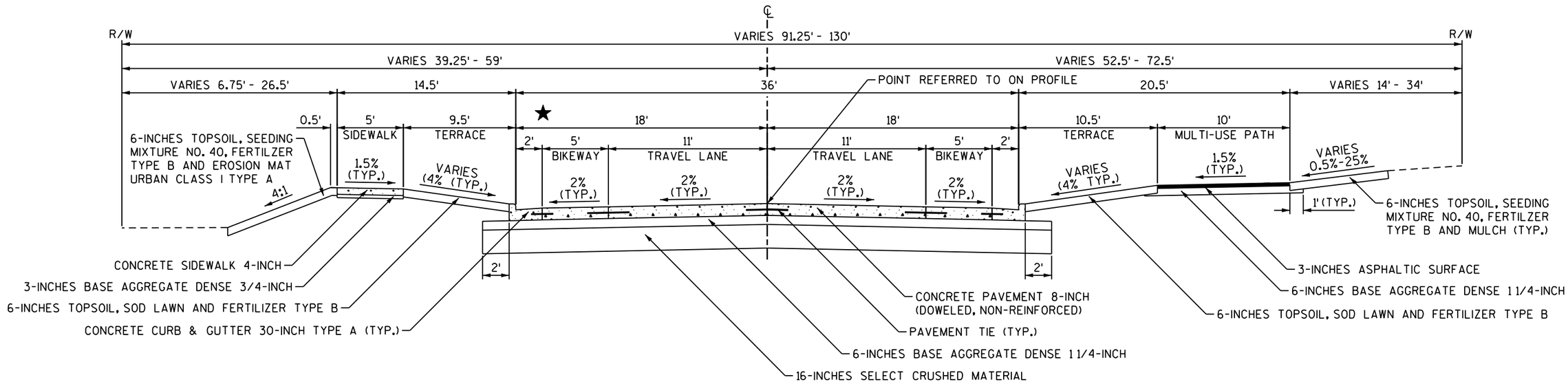
★ COMBINED PARKING & BIKEWAY DETAIL (SOUTHBOUND WIS 42)

STA. 33+10 - STA. 37+81
STA. 40+03 - STA. 41+79
STA. 43+63 - STA. 44+90
STA. 47+23 - STA. 48+71
STA. 50+83 - STA. 51+81
STA. 54+21 - STA. 55+94
STA. 57+37 - STA. 60+75
STA. 62+51 - STA. 65+31
STA. 69+75 - STA. 70+35



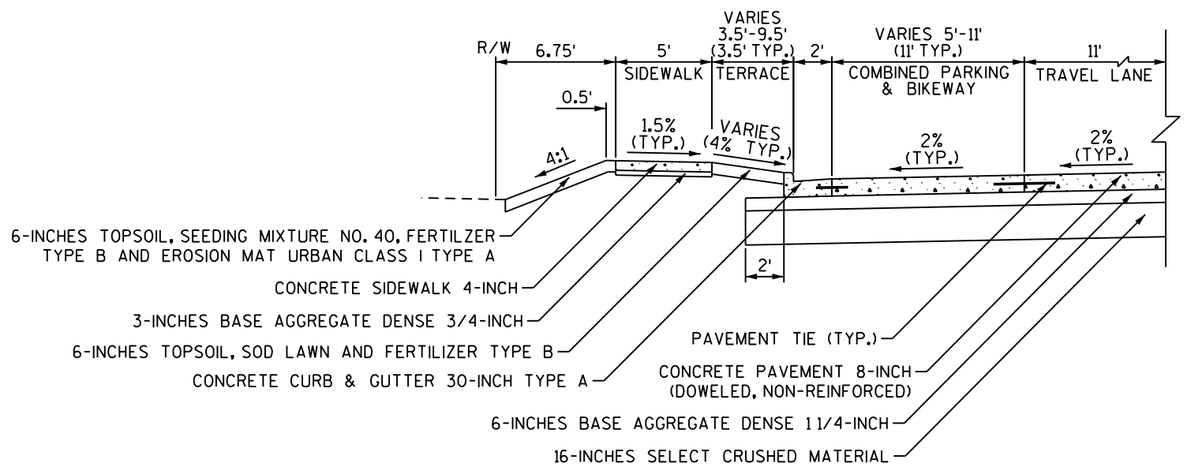
★★ COMBINED PARKING & BIKEWAY DETAIL (NORTHBOUND WIS 42)

STA. 33+10 - STA. 35+61
STA. 37+88 - STA. 39+24
STA. 41+25 - STA. 42+65
STA. 45+05 - STA. 46+44
STA. 48+49 - STA. 50+04
STA. 52+15 - STA. 53+39
STA. 55+93 - STA. 58+77
STA. 71+22 - STA. 71+86



FINISHED TYPICAL SECTION - LINCOLN STREET (WIS 42)

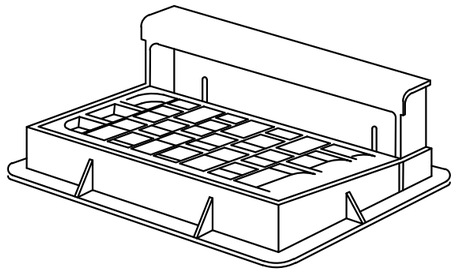
(34TH STREET - 35TH PLACE)
STA. 72+50 - STA. 79+50



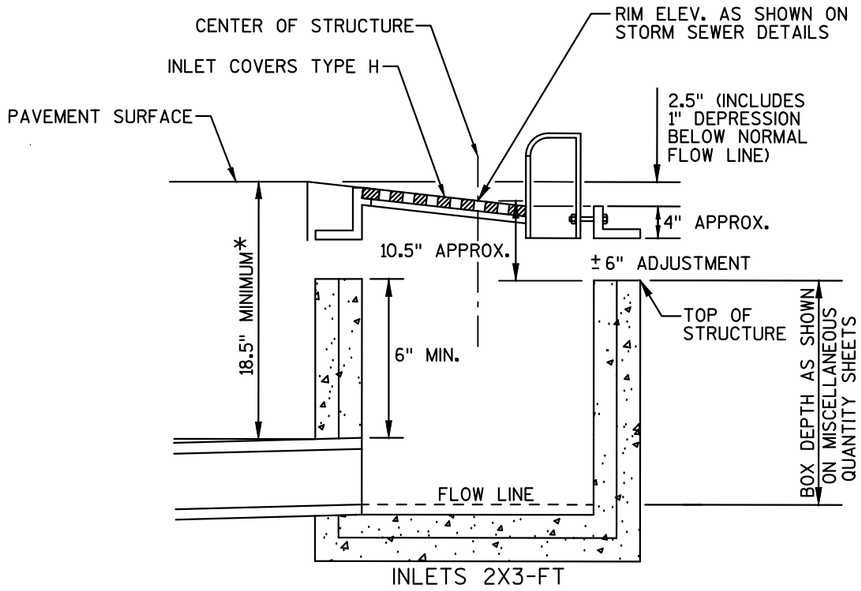
★ COMBINED PARKING & BIKEWAY DETAIL (SOUTHBOUND WIS 42)

STA. 72+72 - STA. 73+36

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	FINISHED TYPICAL SECTIONS	SHEET 7	E

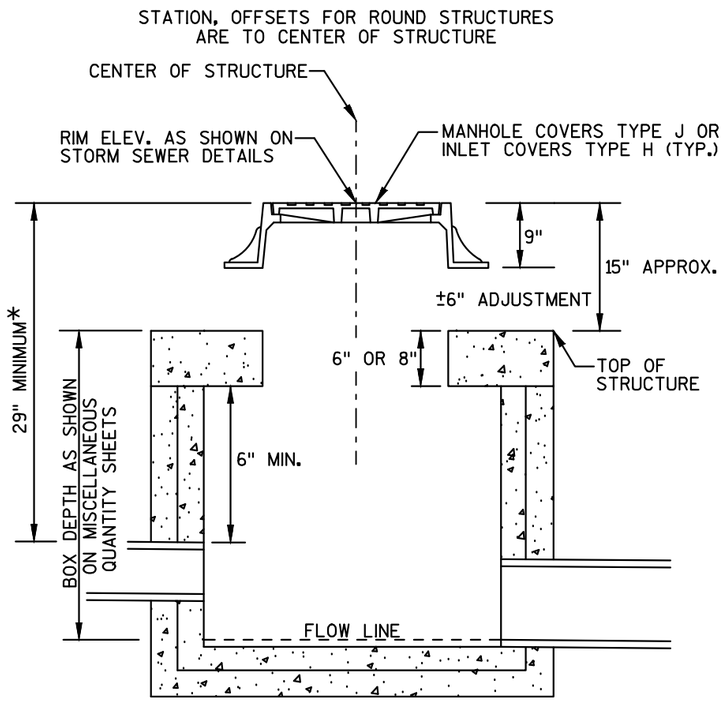


INLET COVERS TYPE H DETAIL



*CONSIDER CAST-IN-PLACE STRUCTURE IF DEPTH IS LESS THAN 18.5"

DETAIL FOR COMPUTING INLET ELEVATIONS
SCALE: NONE

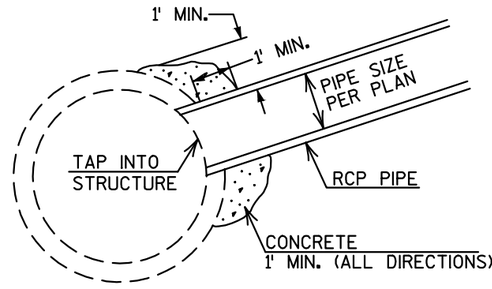


*CONSIDER CAST-IN-PLACE STRUCTURE IF DEPTH IS LESS THAN 29"

DETAIL FOR COMPUTING ROUND STRUCTURE ELEVATIONS
SCALE: NONE

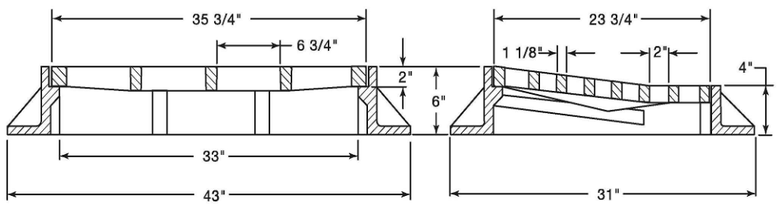
NOTE: CONCRETE INCIDENTAL TO INSTALLATION OF STORM SEWER PIPE

NO PIPE TO PROTRUDE INTO MANHOLE



PLAN VIEW

MANHOLE CONNECTION DETAIL
SCALE: NONE

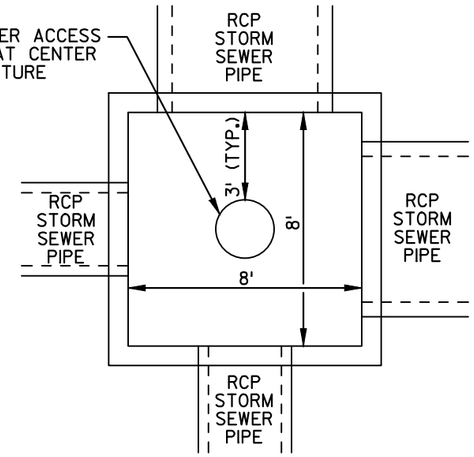




INLET COVER TYPE DRIVEWAY SPECIAL DETAIL
SCALE: NONE

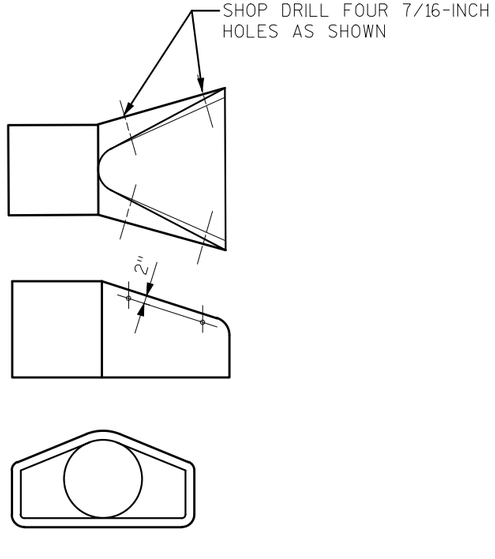
GENERAL NOTES:

1. 8-INCH THICK REINFORCED CONCRETE WALLS AND FLOOR.
2. 9-INCH THICK REINFORCED CONCRETE TOP.
3. CONTRACTOR TO PROVIDE DRAWINGS STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN.
4. SEE STORM SEWER DETAILS FOR PIPE CONFIGURATIONS AND ELEVATIONS.
5. STORM SEWER STRUCTURES ARE SHALLOW AND HAVE LIMITED COVER, CONSIDER CAST-IN-PLACE STRUCTURES.

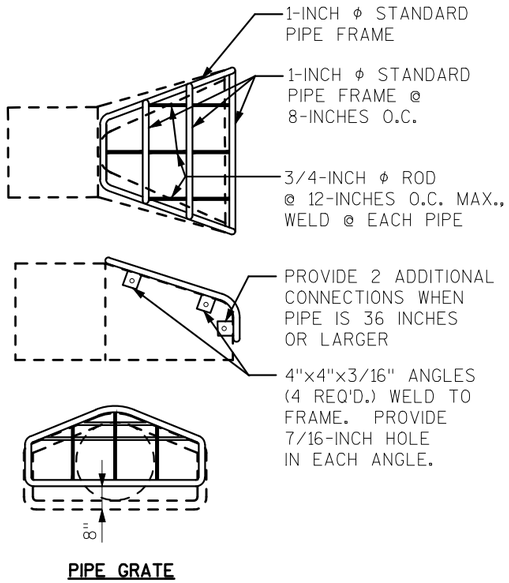


PLAN

MANHOLES 8x8-FT SPECIAL DETAIL
SCALE: NONE



REINFORCED CONCRETE APRON ENDWALL



PIPE GRATE

PIPE GRATE DETAIL
SCALE: NONE

GENERAL NOTES:

1. THE CONTRACTOR SHALL BOLT THE PIPE GRATE TO THE ENDWALL WITH FOUR 3/8-INCH x 6-INCH STAINLESS STEEL ZINC COATED MACHINE BOLTS WITH NUTS ON INSIDE WALL.
2. PAINTING SPECIFICATIONS

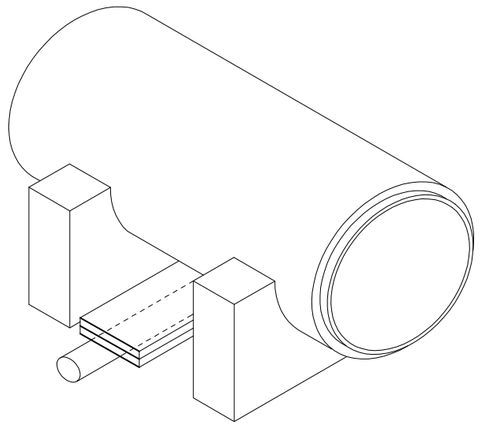
   THE PIPE GRATE SHALL RECEIVE THE FOLLOWING PREPARATION AND PAINTING.

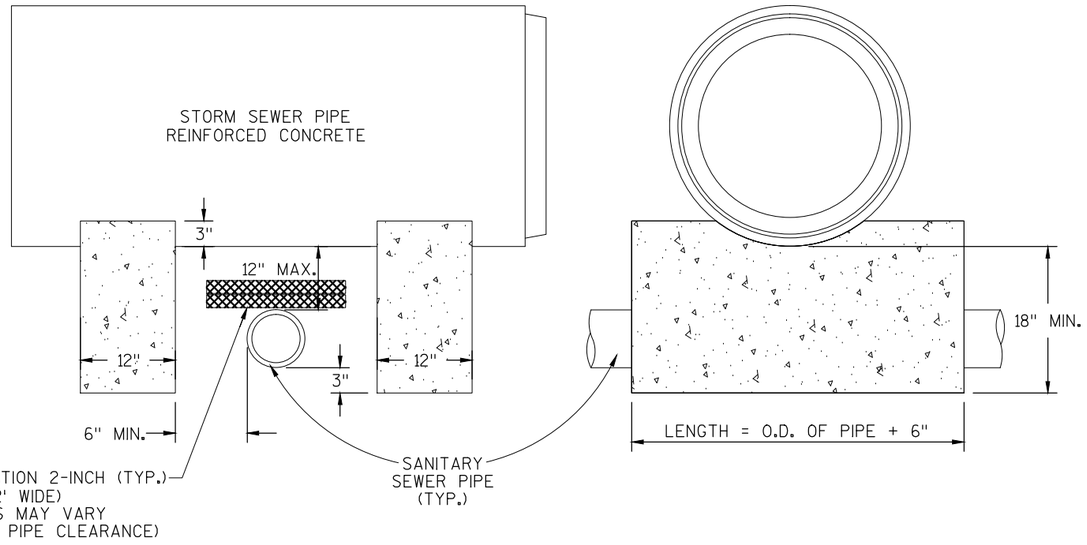
   PREPARATION:
   BARE SURFACES BY THOROUGH SCRAPING, WIRE BRUSHING AND CLEANING. APPLY THE THREE COAT SYSTEM LISTED.

   EACH COAT SHALL BE AN OVERALL COAT.

   FIRST COAT: RUST-OLEUM X-60 RED BARE METAL PRIMER OR EQUAL
   SECOND COAT: RUST-OLEUM 960 ZINC CHROMATE PRIMER OR EQUAL
   THIRD COAT: RUST-OLEUM 1282 HIGH GLOSS AND METALIC FINISH OR EQUAL

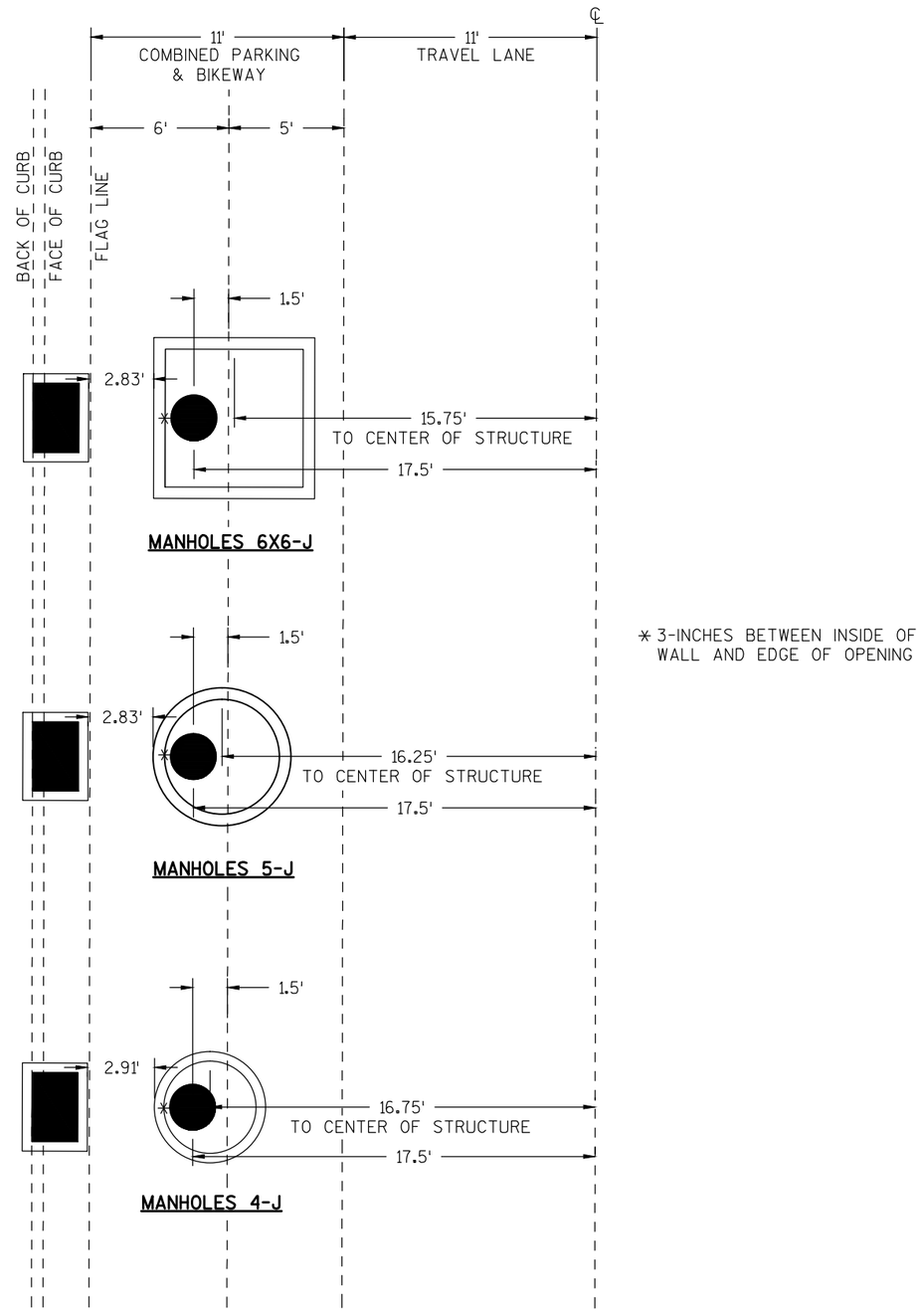
   ALLOW 24 - 48 HOURS DRYING TIME BETWEEN COATS.





NOTE:
1. FIELD POURED, CONCRETE PIPE SUPPORT SHALL BE INSTALLED FOR STORM SEWERS WHEN CLEARANCE BETWEEN BOTTOM OF PIPE AND TOP OF SANITARY SEWER PIPE IS 12-INCHES OR LESS.

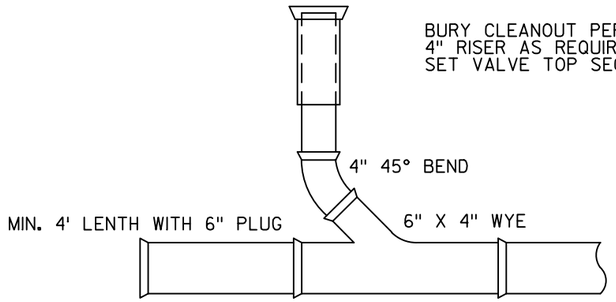
CONCRETE PIPE SUPPORT DETAIL
SCALE: NONE



* 3-INCHES BETWEEN INSIDE OF WALL AND EDGE OF OPENING

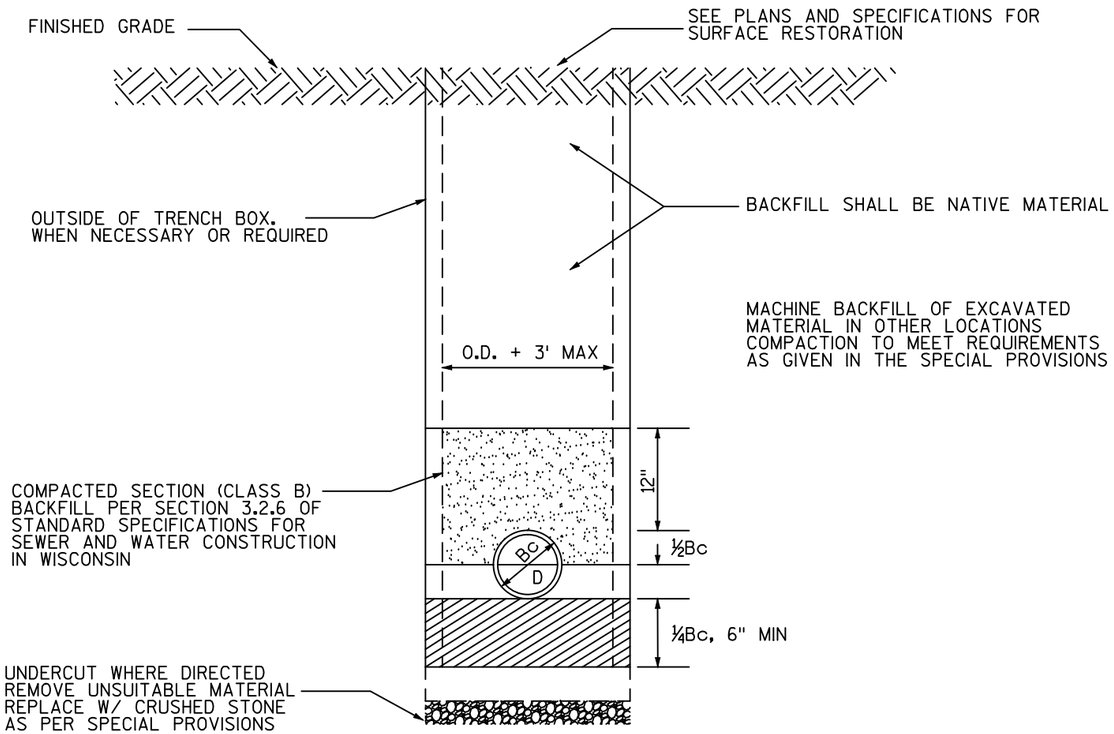
DETAIL FOR STORM SEWER STRUCTURES WITH ECCENTRIC TOP/OFFSET OPENING
SCALE: NONE

USE VALVE BOX TOP SECTION WITH COVER MARKED "SEWER"

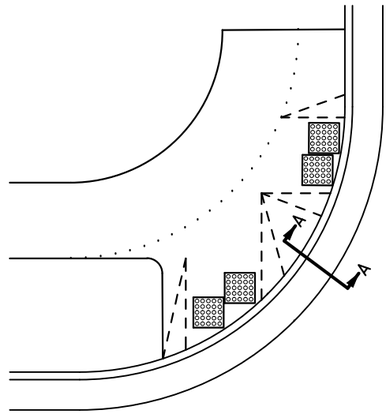


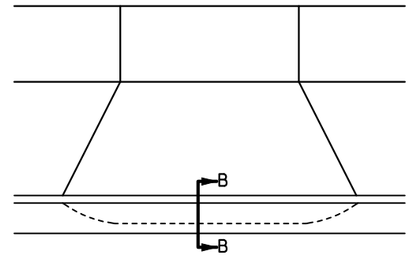
TYPICAL MINISTORM SEWER CLEANOUT
SCALE: NONE

(MAX.) TRENCH WIDTH: - 9" + O.D. + 9". WHEN TRENCH IS LESS THAN 5' DEEP
- 18" + O.D. + 18". WHEN TRENCH IS GREATER THAN 5'



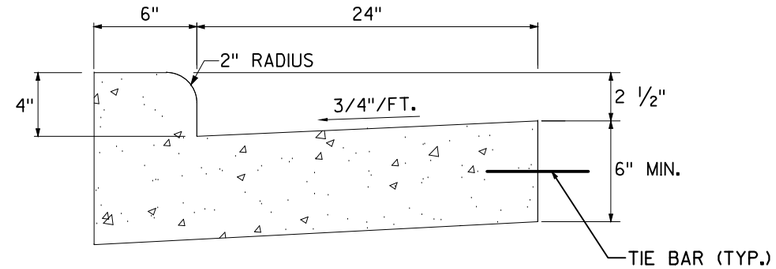
TYPICAL MINISTORM SEWER AND MINI STORM SEWER LATERAL TRENCH AND BEDDING DETAIL
SCALE: NONE



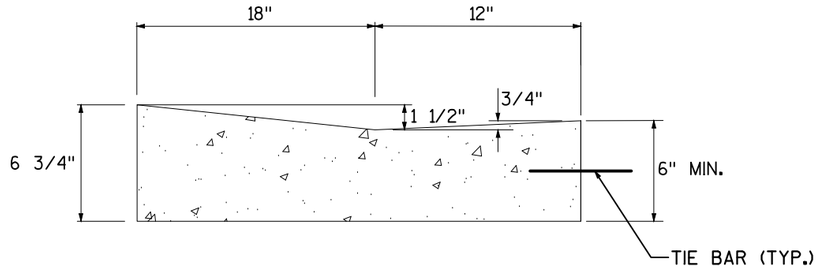


(STA. 55+14, LT.)

PLAN VIEW



SECTION A-A (4-INCH CURB HEAD)

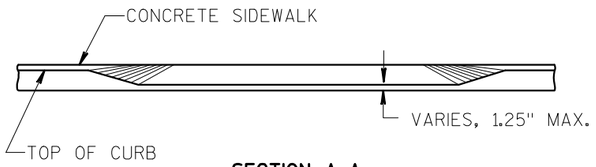


SECTION B-B (DRIVEWAY ALTERNATE FLOW LINE)

NOTES:

1. TIE BARS ARE INCIDENTAL TO CONCRETE CURB AND GUTTER 30-INCH TYPE A SPECIAL.
2. SEE CURB RAMP DETAILS FOR LOCATIONS.
3. IF NOT SHOWN DIFFERENTLY IN CURB RAMP DETAILS, CONSTRUCT CURB & GUTTER WITH 6-INCH CURB HEAD.

CONCRETE CURB & GUTTER 30-INCH TYPE A SPECIAL DETAIL
SCALE: NONE

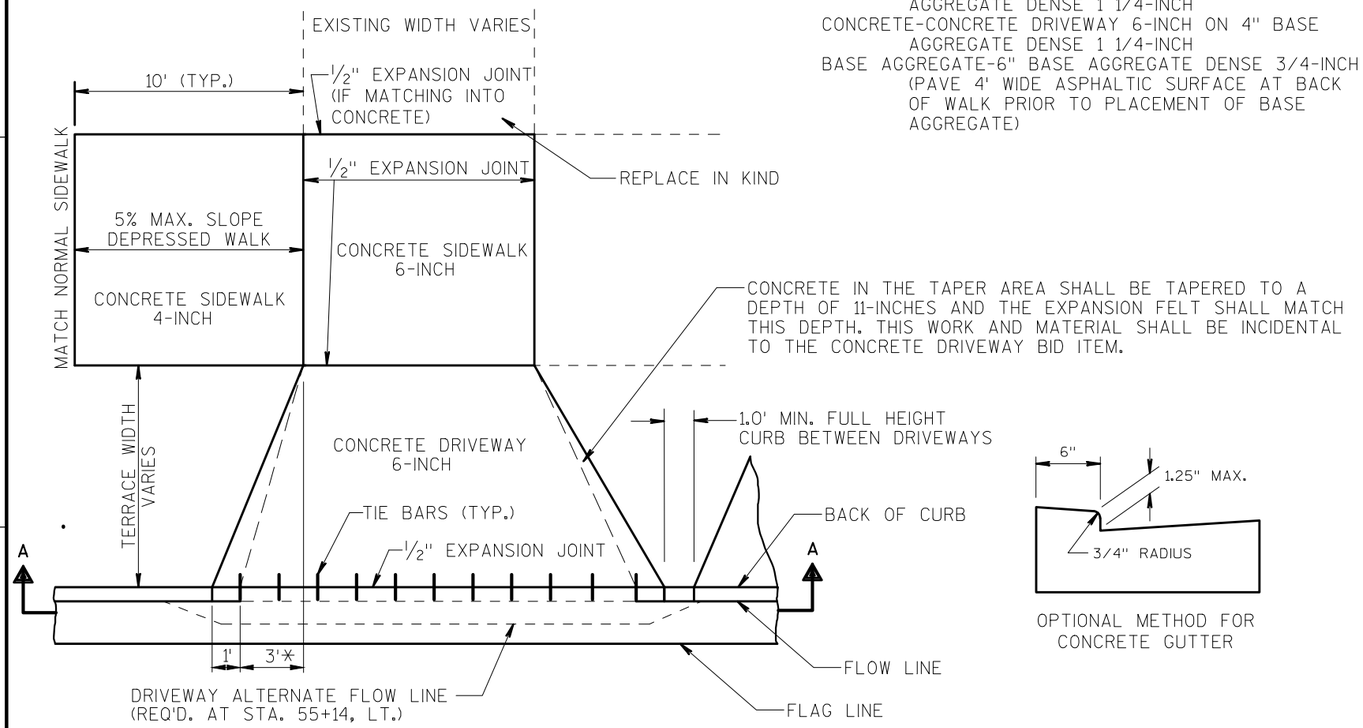


SECTION A-A

NOTES:

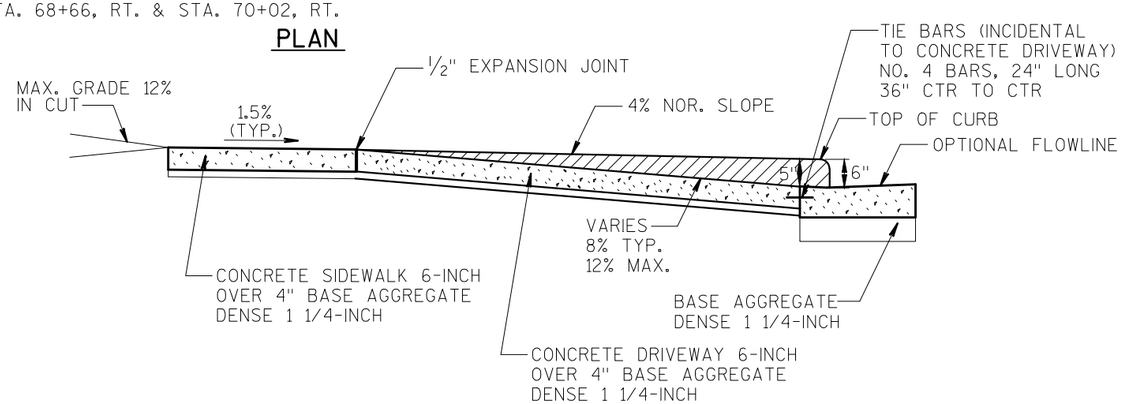
① DRIVEWAY WIDTHS
COMMERCIAL: 35' MAX., 12' MIN.
NON-COMMERCIAL: 24' MAX., 10' MIN.

② DRIVEWAY SURFACE BEHIND SIDEWALK SHALL BE REPLACED IN-KIND WITH MINIMUM SECTION OF:
ASPHALT-3" ASPHALTIC SURFACE ON 4" BASE AGGREGATE DENSE 1 1/4-INCH
CONCRETE-CONCRETE DRIVEWAY 6-INCH ON 4" BASE AGGREGATE DENSE 1 1/4-INCH
BASE AGGREGATE-6" BASE AGGREGATE DENSE 3/4-INCH (PAVE 4' WIDE ASPHALTIC SURFACE AT BACK OF WALK PRIOR TO PLACEMENT OF BASE AGGREGATE)



* 9' AT STA. 68+66, RT. & STA. 70+02, RT.

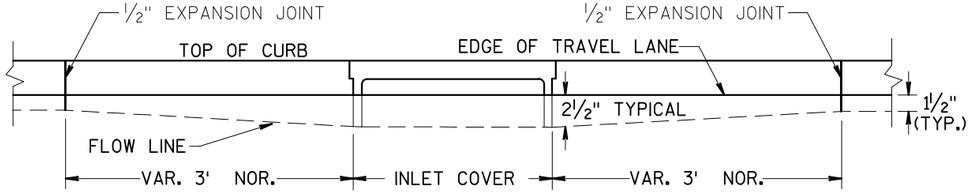
PLAN



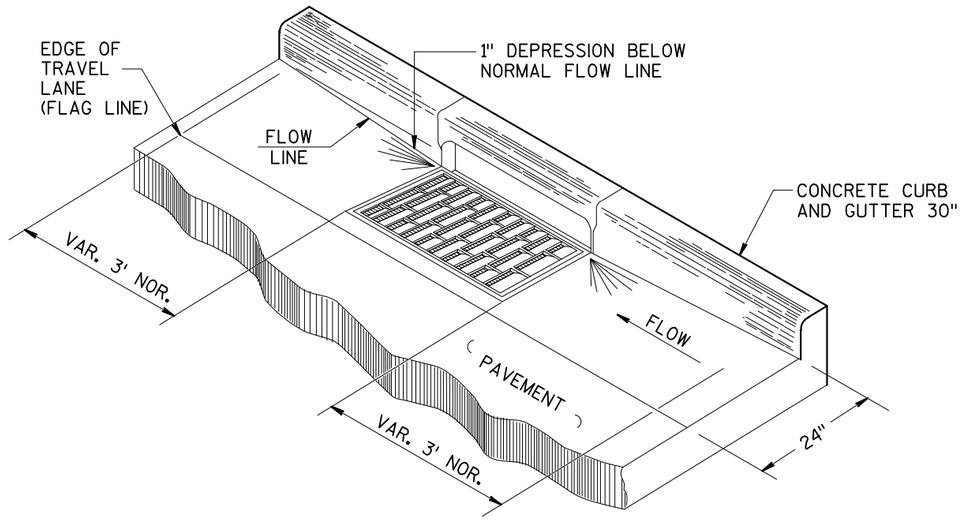
PROFILE

URBAN DRIVEWAY DETAIL
SCALE: NONE

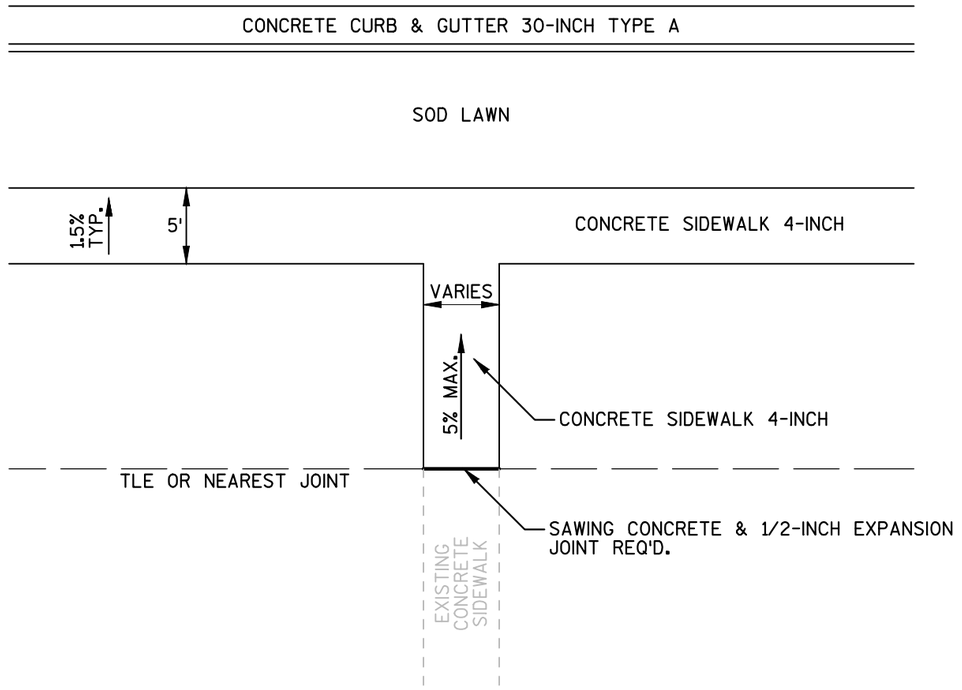
OPTIONAL METHOD FOR CONCRETE GUTTER



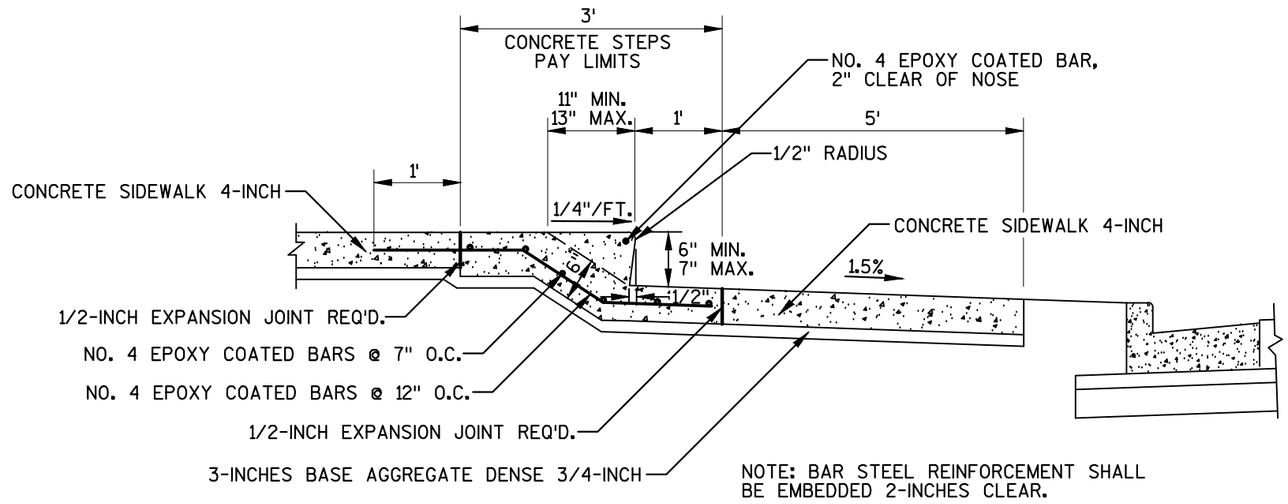
ELEVATION



DETAIL OF CURB & GUTTER AT INLETS
SCALE: NONE

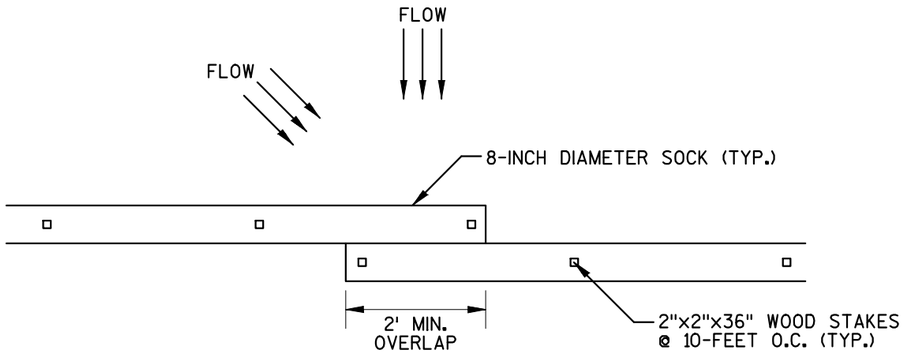


PRIVATE SIDEWALK CONNECTION DETAIL
SCALE: NONE

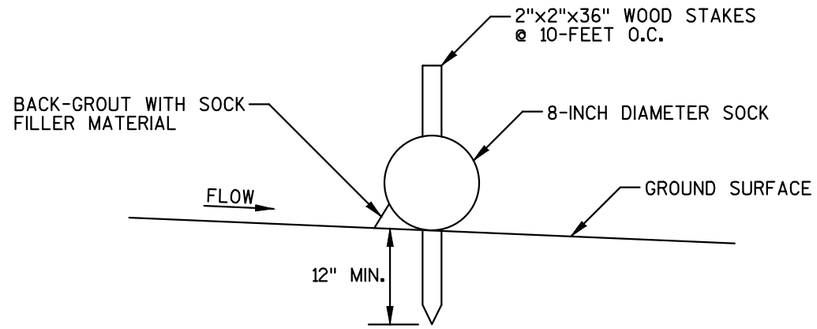


(STATION 37+02, LT.)

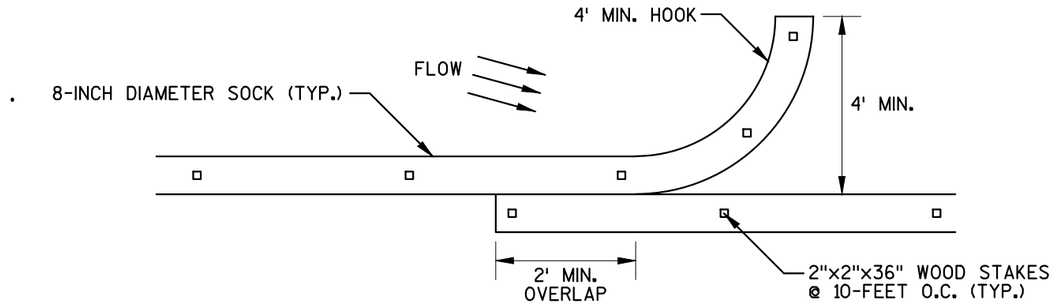
CONCRETE STEPS DETAIL
SCALE: NONE



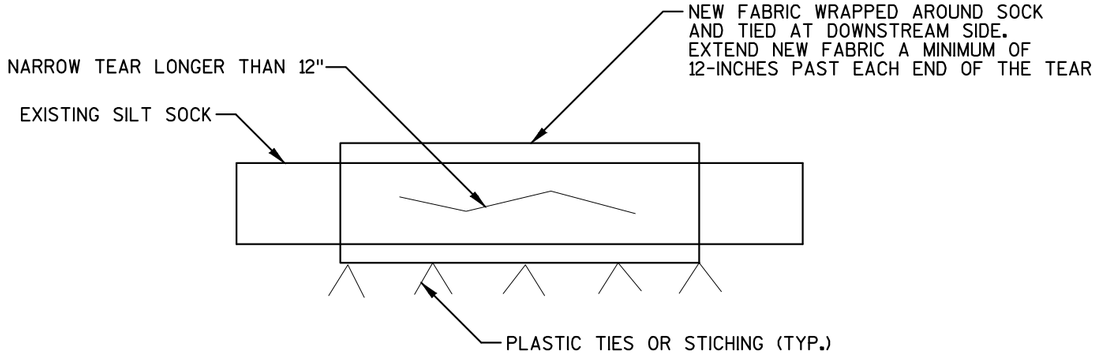
PLAN VIEW - FLOW 45° TO 90° TO SOCK



SECTION VIEW



PLAN VIEW - FLOW LESS THAN 45° TO SOCK



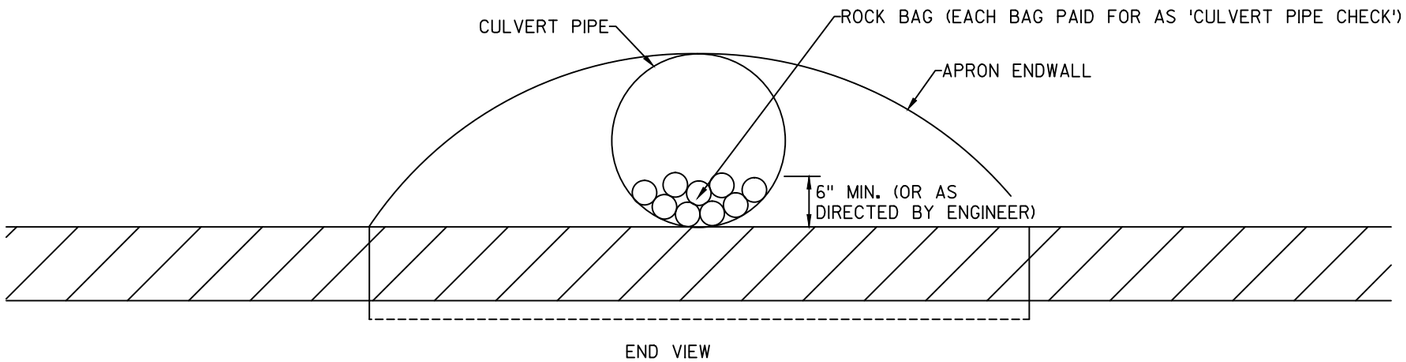
REPAIR DETAIL - TEAR GREATER THAN 12-INCHES

GENERAL NOTES:

1. SILT SOCK MATERIAL AND FILLER SHALL MEET REQUIREMENTS SPECIFIED IN THE SPECIAL PROVISIONS.
2. WHEN SILT SOCK IS USED ON A PAVED SURFACE, CONCRETE BLOCKS SHALL BE USED TO SECURE SILT SOCK IN PLACE OF STAKING.
3. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM BEHIND THE SILT SOCK WHEN IT HAS REACHED A HEIGHT EQUAL TO HALF OF THE SOCK HEIGHT.
4. SMALL HOLES OR NARROW RIPS LESS THAN 12-INCHES LONG MAY BE STICHED CLOSED USING PLASTIC ZIP TIES. LARGER RIPS SHALL BE FIXED PER THE REPAIR DETAIL. HEAVILY DAMAGED SECTIONS SHALL BE REPLACED ENTIRELY, MAINTAIN 2' MINIMUM OVERLAP AT EACH END.

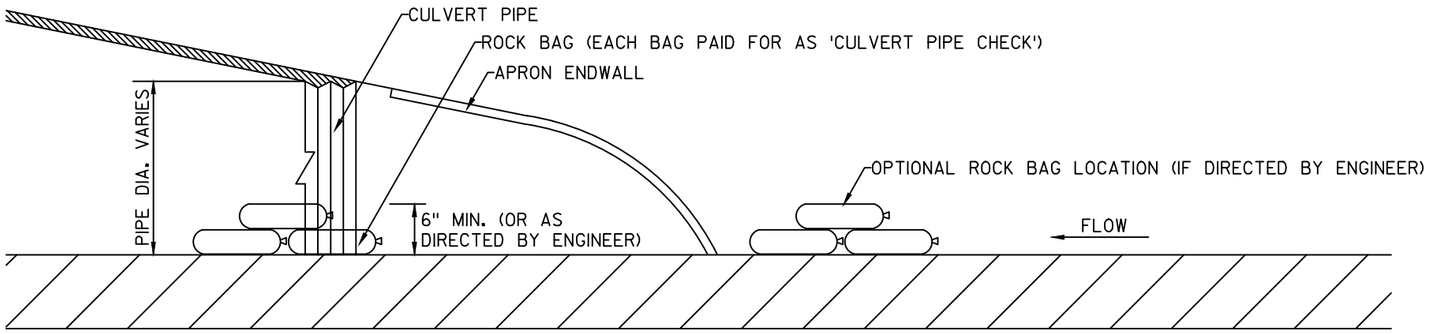
TUBULAR SEDIMENT CONTROL (SILT SOCK) DETAIL
SCALE: NONE

2



END VIEW

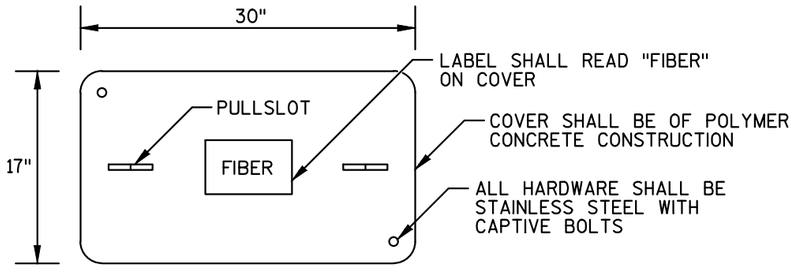
ESTIMATED BAG SIZE = 24" X 12" X 6"	
PIPE SIZE	ESTIMATED NO. OF BAGS
12"	2
15"	2
18"	2
24"	3
30"	5
48"	10
54"	10
60"	13

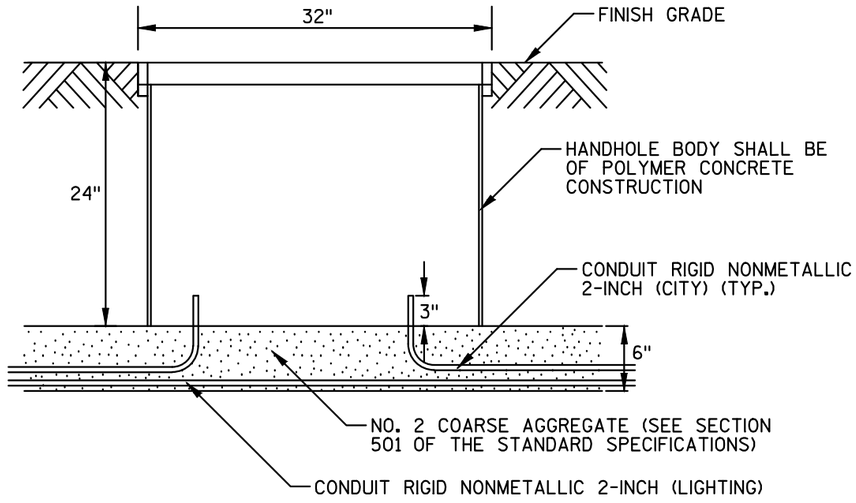


SIDE VIEW

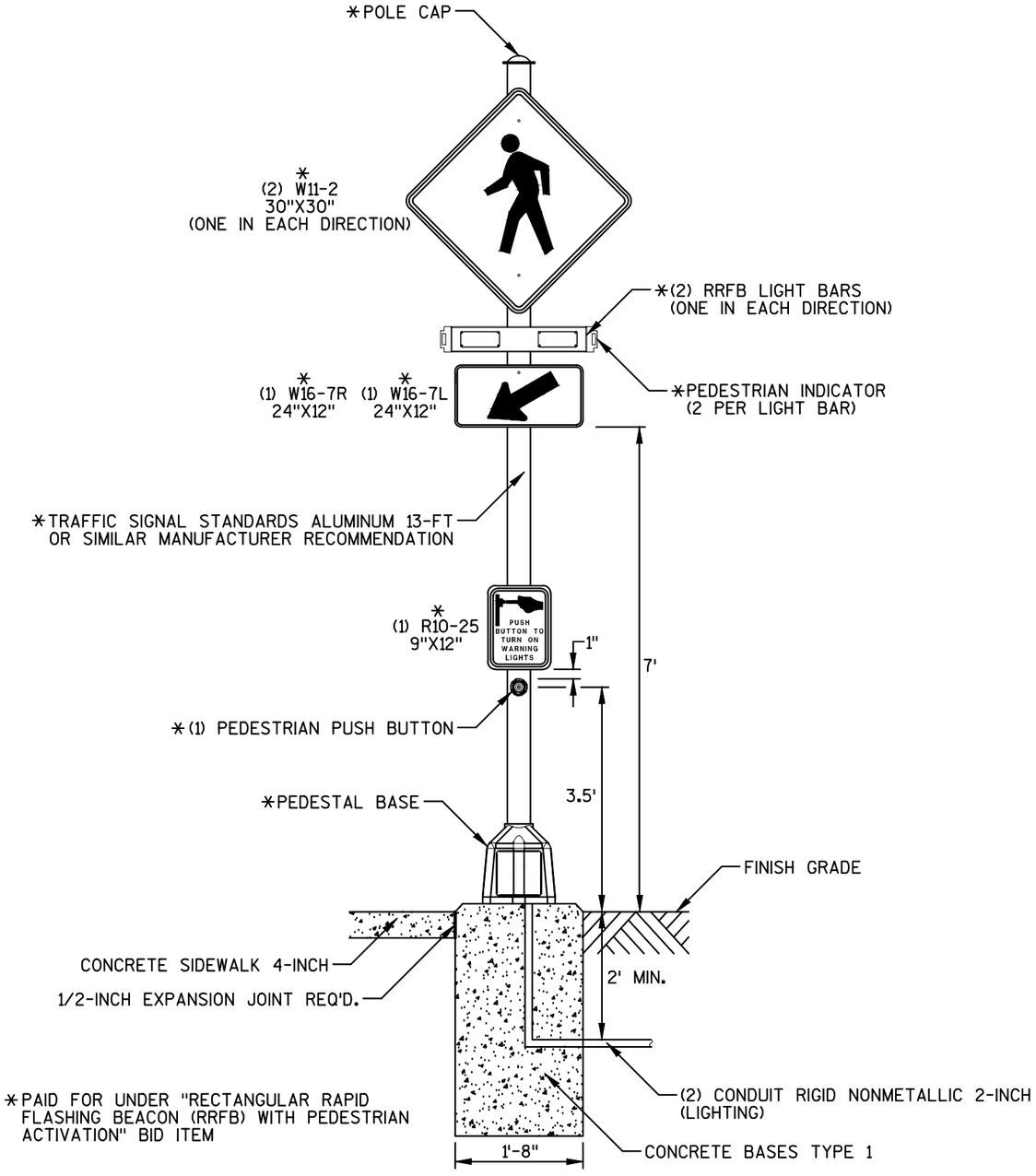
CULVERT PIPE CHECK DETAIL
SCALE: NONE

STATION, OFFSETS FOR PULL BOXES
ARE TO CENTER OF STRUCTURE



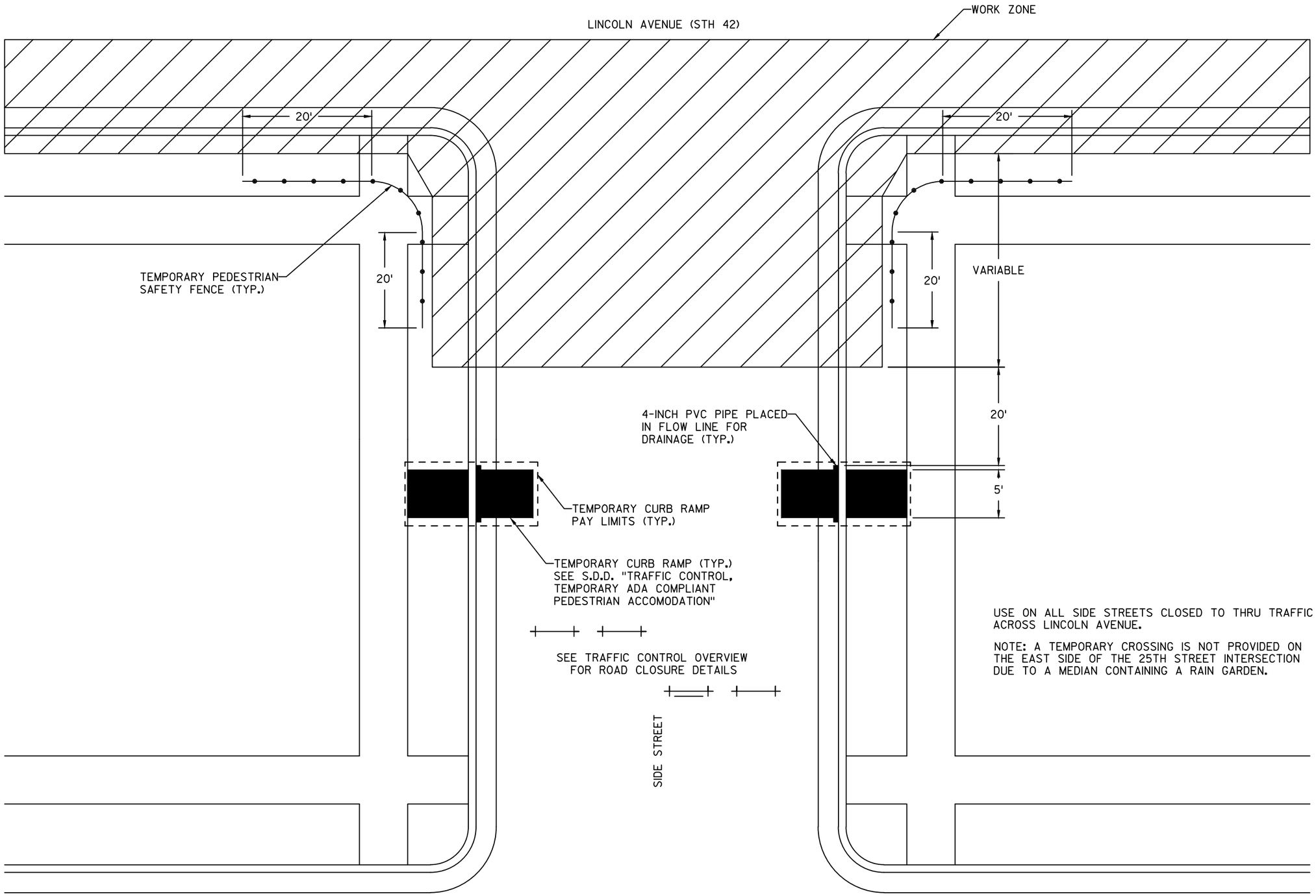


POLYMER CONCRETE PULL BOX DETAIL
SCALE: NONE



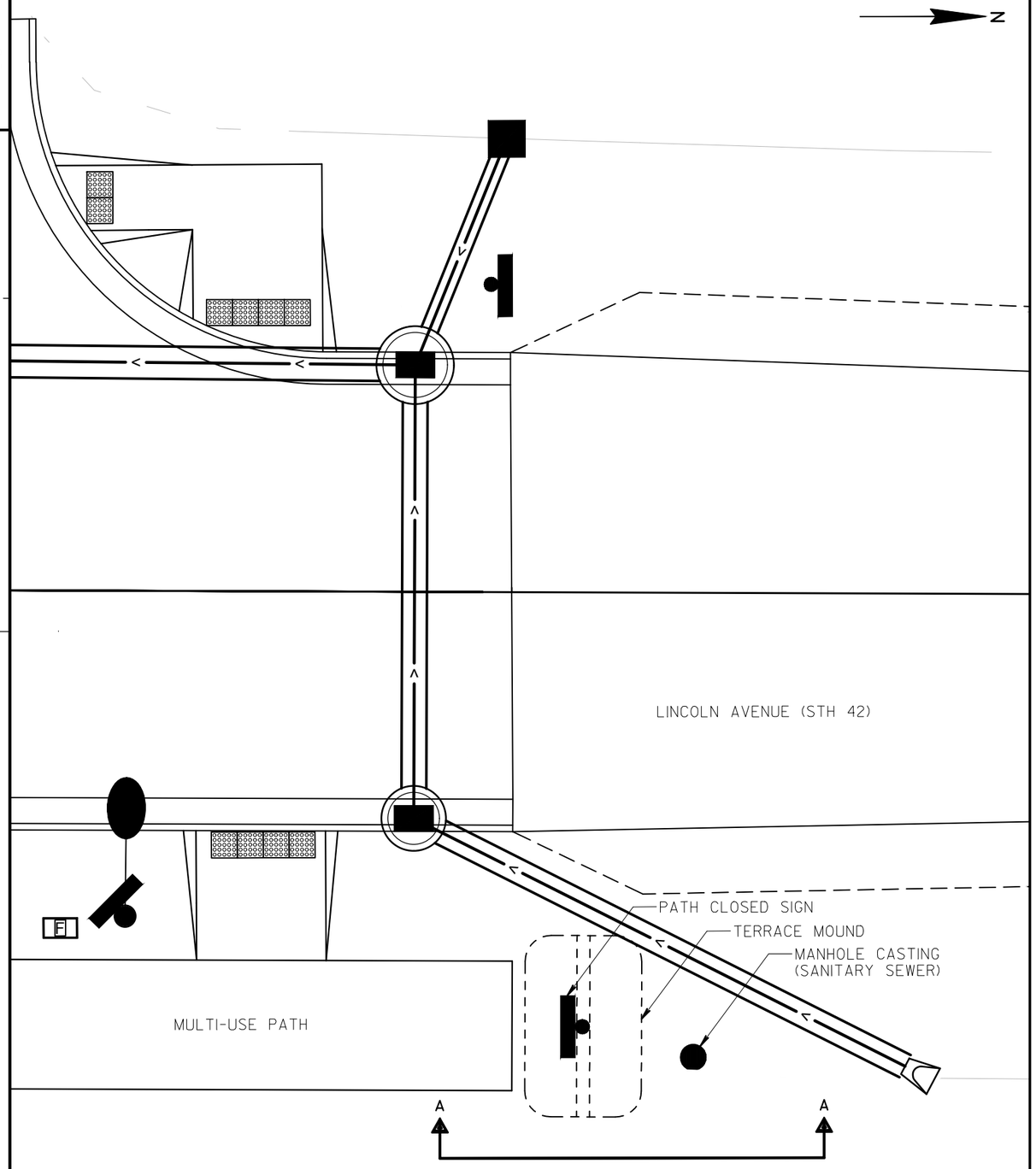
RECTANGULAR RAPID FLASHING BEACON (RRFB) WITH PEDESTRIAN ACTIVATION DETAIL
SCALE: NONE

2



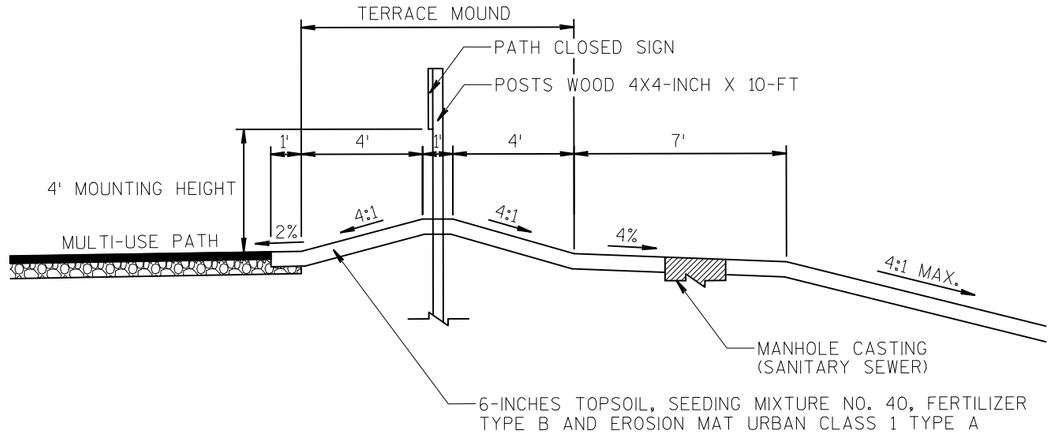
TEMPORARY CROSSWALK DETAIL (SIDE STREET CROSSINGS)
SCALE: NONE

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CONSTRUCTION DETAILS	SHEET 17	E



PLAN

END OF MULTI-USE PATH DETAIL
SCALE: NONE



SECTION A-A

2

PROJECT NO:1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CONSTRUCTION DETAILS	SHEET 18	E

2

2

N

22ND STREET (STH 42)

23RD STREET

LINCOLN AVENUE (STH 42)

BP: 32+44.07

MATCHLINE STA. 38+50

33+00 34+00 35+00 36+00 37+00 38+00

PULL BOX (TYP.)

STORM SEWER MANHOLE (TYP.)

SANITARY SEWER PIPE (TYP.)

STORM SEWER LATERAL (TYP.)

SANITARY SEWER MANHOLE (TYP.)

CONDUIT (TYP.)

SIGN (TYP.)

STREET LIGHT POLE (TYP.)

PETROLEUM-CONTAMINATED SOIL AND GROUNDWATER

WATERMAIN (TYP.)

STORM SEWER PIPE (TYP.)

MINI STORM SEWER SYSTEM (TYP.)

TREE (TYP.)

STORM SEWER INLET (TYP.)

WATER VALVE (TYP.)

TLE

TLE R/W

1560010162
THE FOUR SEAS BUILDING PARTNERSHIP LLP
1010 22ND ST.

1560052009
GLADYS BEAUDIN
2304 LINCOLN AVENUE

1560050216
ARTHUR ALLIE
2314 LINCOLN AVENUE

1470011306
PATSY'S HWY 42 MOBILE MART, LLC
816 22ND ST

1470010609
NEW BANCSHARES, INC.
2221 LINCOLN AVENUE

1470021107
GEORGE & EDITH FRASCH
2305 LINCOLN AVENUE

1470021009
ROSE LECLAIR
2311 LINCOLN AVENUE

1470020901
DAVID LEE BIELY
2315 LINCOLN AVENUE

EDWARD BARUTH
828 23RD ST.

2-200 PAIR (BURIED)

CANOPY

WALLS

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	OVERVIEW DETAILS	SHEET 19	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\OVERVIEW DETAILS.DWG
WIS 42 LINCOLN - OVERVIEW DETAILS - OVERVIEW_01

PLOT DATE : 9/12/2016 10:19 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

N

TREE (TYP.)
PULL BOX (TYP.)
STORM SEWER INLET (TYP.)
STORM SEWER PIPE (TYP.)
STREET LIGHT POLE (TYP.)
STORM SEWER LATERAL (TYP.)
CONDUIT (TYP.)
STORM SEWER MANHOLE (TYP.)
WATER VALVE (TYP.)
HYDRANT (TYP.)
SANITARY SEWER PIPE (TYP.)
MINI STORM SEWER SYSTEM (TYP.)
WATERMAIN (TYP.)
SIGN (TYP.)
SANITARY SEWER MANHOLE (TYP.)
TLE
R/W
24TH STREET
25TH STREET
LINCOLN AVENUE (STH 42)
MATCHLINE STA. 38+50
MATCHLINE STA. 44+50
39+00
40+00
41+00
42+00
43+00
44+00

0127
A AMMERMAN
INCOLN AVENUE

1560050118
LEONARD & SYLVIA
LESPERANCE
2320 LINCOLN AVENUE

1560062016
WILLIAM & CYNTHIA
SCHWERMA
1000 24TH ST.

1560061927
SHANE & KAY FRISCH
2404 LINCOLN AVENUE

1560061918
NORBERT & DIANE
VOHWINKEL
2410 LINCOLN AVENUE

1560060223
SENG YANG & MAO MOUA
2412 LINCOLN AVENUE

1560060214
GENIE VARNEY
2418 LINCOLN AVENUE

1560060125
SUSAN DEKOK
2420 LINCOLN AVENUE

1380012029
CONRAD & ELAINE
1002 25TH ST.

1380012010
DORIS EURICH
2504 LINCOLN AVENUE

20803
INE SCHWINDLER
LINCOLN AVENUE

1470020705
NANCY KAKES
2321 LINCOLN AVENUE

1470031007
CANDICE WEBERSKI
2403 LINCOLN AVENUE

1470030909
PATRICK & NATHLEEN
BAGNALL
2407 LINCOLN AVENUE

1470030801
NELDA DAUGHERTY
2409 LINCOLN AVENUE

1470030703
JOHN EDWARD RUETHER
2413 LINCOLN AVENUE

1470030605
AARON & KRISTEN
SCHULTZ
827 25TH ST.

1470041005
CLYDE & ELLEN
SAHN
828 25TH ST.

1470
BRIAN
MCDA
2505

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	OVERVIEW DETAILS	SHEET 20	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\OVERVIEW DETAILS.DWG
WIS 42 LINCOLN - OVERVIEW DETAILS - OVERVIEW_02

PLOT DATE : 9/12/2016 10:19 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF

2

2

N

MATCHLINE STA. 44+50

MATCHLINE STA. 50+50

MATCHLINE

MATCHLINE

26TH STREET

27TH STREET

LINCOLN AVENUE (STH 42)

45+00

46+00

47+00

48+00

49+00

50+00

STORM SEWER LATERAL (TYP.)

STORM SEWER MANHOLE (TYP.)

CONDUIT (TYP.)

PULL BOX (TYP.)

SIGN (TYP.)

STORM SEWER PIPE (TYP.)

STREET LIGHT POLE (TYP.)

TREE (TYP.)

MINI STORM SEWER SYSTEM (TYP.)

SANITARY SEWER MANHOLE (TYP.)

SANITARY SEWER PIPE (TYP.)

WATERMAIN (TYP.)

STORM SEWER INLET (TYP.)

HYDRANT (TYP.)

WATER VALVE (TYP.)

TLE

R/W

1380011921
MARY GRAMS
2510 LINCOLN AVENUE

1380010316
LINDA DAMROW
2514 LINCOLN AVENUE

1380010129
TINA CHRISTMAN
2422 LINCOLN AVENUE

1380061920
DAVID & WENDY ZUNKER
2602 LINCOLN AVENUE

1380062019
BLAINE WALESH
2608 LINCOLN AVENUE

1380060100
GERALD & KENNETH MESSMAN
2618 LINCOLN AVENUE

1470040809
DANIEL & JODI MILLER
2509 LINCOLN AVENUE

1470040701
JEROME & MICHELLE LEGREVE
2513 LINCOLN AVENUE

1470040603
JANET PARMA & DAVID STODOLA
2517 LINCOLN AVENUE

1470041002
JAMES ABNER
826 26TH ST.

1470050904
PATRICIA PIETROSKE
2607 LINCOLN AVENUE

1470050806
JEAN ZAHORIK
2611 LINCOLN AVENUE

1470050708
ELIZABETH BLAZER
2615 LINCOLN AVENUE

1470050600
DONALD & KATHRYN KUBEC
2617 LINCOLN AVENUE

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	OVERVIEW DETAILS	SHEET 21	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\OVERVIEW DETAILS.DWG
WIS 42 LINCOLN - OVERVIEW DETAILS - OVERVIEW_03

PLOT DATE : 9/12/2016 10:19 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

2

N

27TH STREET

28TH STREET

RUINS

WALLS

1380072017
EUGENE KAPLA
2704 LINCOLN AVENUE

1380070116
CLEM BECKER, INC.
2720 LINCOLN AVENUE

1380122008
CLEM BECKER, INC.
2806 LINCOLN AVENUE

138012
JOHN
GAIL
2822

STORM SEWER PIPE (TYP.)
STORM SEWER MANHOLE (TYP.)
STREET LIGHT POLE (TYP.)
PULL BOX (TYP.)
CONDUIT (TYP.)
SIGN (TYP.)
SANITARY SEWER MANHOLE (TYP.)
STORM SEWER LATERAL (TYP.)
PULL BOX (TYP.)

MATCHLINE STA. 50+50

51+00
52+00
53+00
54+00
55+00
56+00

LINCOLN AVENUE (STH 42)

MATCHLINE STA. 56+50

TLE
R/W

TREE (TYP.)
MINI STORM SEWER SYSTEM (TYP.)
HYDRANT (TYP.)
WATER VALVE (TYP.)
SANITARY SEWER PIPE (TYP.)
WATERMAIN (TYP.)
STORM SEWER INLET (TYP.)

1470061000
STEVEN KAKES
828 27TH ST.

1470060902
RONALD & PATRICIA LUTZ
2711 LINCOLN AVENUE

1470060804
RONALD & PATRICIA LUTZ
2711 LINCOLN AVENUE

1470060706
ERVIN KRIZEK
2713 LINCOLN AVENUE

1470060608
PAUL & PAULETTE SIMONAR
825 28TH ST.

1470071008
PAUL & PAULETTE SIMONAR
828 28TH ST.

1470070893
THOMAS TERP
2809 LINCOLN AVENUE

1470070679
LEONARD & YVONNE HENRICKSON
2819 LINCOLN AVENUE

PROJECT NO:1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	OVERVIEW DETAILS	SHEET 22	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\OVERVIEW DETAILS.DWG
WIS 42 LINCOLN - OVERVIEW DETAILS - OVERVIEW_04

PLOT DATE : 9/12/2016 10:19 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

2

N

30TH STREET

31ST STREET

29TH STREET

LINCOLN AVENUE (STH 42)

MATCHLINE STA. 56+50

MATCHLINE STA. 62+50

57+00

58+00

59+00

60+00

61+00

62+00

STA. 58+78.84

1380130124
HOLLY'S HAIR SALON
SCOTT & HOLLY ANDERSON
2910 LINCOLN AVENUE

1622032002
RAYMOND & LISA
MIKEAL
1002 30TH ST.

1622030219
STEVEN KUBEC
3014 LINCOLN AVENUE

1622030120
LARRY & JOANNE
RAATZ
3020 LINCOLN AVENUE

1470110065
COOL CITY MOTEL
MARY BETH LECLAIR
3009 LINCOLN AVENUE

DAIRY QUEEN
JALO INC.
2901 LINCOLN AVENUE

PULL BOX (TYP.)

STREET LIGHT POLE (TYP.)

PULL BOX (TYP.)

STORM SEWER PIPE (TYP.)

CONDUIT (TYP.)

MINI STORM SEWER SYSTEM (TYP.)

STORM SEWER MANHOLE (TYP.)

SANITARY SEWER PIPE (TYP.)

WATERMAIN (TYP.)

SANITARY SEWER MANHOLE (TYP.)

STORM SEWER LATERAL (TYP.)

WATER VALVE (TYP.)

TREE (TYP.)

STORM SEWER INLET (TYP.)

SIGN (TYP.)

HYDRANT (TYP.)

TLE

R/W

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	OVERVIEW DETAILS	SHEET 23	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\OVERVIEW DETAILS.DWG
WIS 42 LINCOLN - OVERVIEW DETAILS - OVERVIEW_05

PLOT DATE : 9/12/2016 10:19 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

2

N

1622011980
ARSKE PROPERTIES, LLC

1622011881
PEKARSKE PROPERTIES, LLC
3108 LINCOLN AVENUE

1622010118
PEKARSKE PROPERTIES, LLC
3116 LINCOLN AVENUE

1623010749
THE LIGHTHOUSE ASSEMBLY
OF GOD CHURCH, INC.
3204 LINCOLN AVENUE

1623010239
DONNA WALOTKIEWICZ
3222 LINCOLN AVENUE

TLE
CONDUIT (TYP.)
STORM SEWER PIPE (TYP.)
PULL BOX (TYP.)
STORM SEWER MANHOLE (TYP.)
STORM SEWER LATERAL (TYP.)

MATCHLINE STA. 62+50

63+00 64+00 65+00 66+00 67+00 68+00

MATCHLINE STA. 68+50

SANITARY SEWER PIPE (TYP.)
LINCOLN AVENUE (STH 42)
WATERMAIN (TYP.)
HYDRANT (TYP.)
WATER VALVE (TYP.)
TREE (TYP.)
STORM SEWER INLET (TYP.)
STREET LIGHT POLE (TYP.)
SIGN (TYP.)
LIGHTING CONTROL CABINET
SANITARY SEWER MANHOLE (TYP.)

2312030001
ROBERT LAPOINT III
3109 LINCOLN AVENUE

2312030305
GTE TELEPHONE
3203 LINCOLN AVENUE

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	OVERVIEW DETAILS	SHEET 24	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\OVERVIEW DETAILS.DWG
WIS 42 LINCOLN - OVERVIEW DETAILS - OVERVIEW_06

PLOT DATE : 9/12/2016 10:19 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

2

N

33RD STREET

34TH STREET

1623010131
DONNA WALOTKIEWICZ
3222 LINCOLN AVENUE

1624082007
JOHN TORRISON

1624080116
WALTER & AMALIA HARROLD
3312 LINCOLN AVENUE

1624012002
MERWYNN TRADE GROUP, LLC.
1010 34TH ST.

1624010120
MERWYNN TRADE GROUP, LI

TLE
R/W
STORM SEWER LATERAL (TYP.)
STORM SEWER PIPE (TYP.)
SANITARY SEWER MANHOLE (TYP.)
STORM SEWER MANHOLE (TYP.)
SIGN (TYP.)
TREE (TYP.)

STA. 68+50
MATCHLINE STA. 68+50
69+00
70+00
71+00
72+00
73+00
74+00
STA. 74+50
MATCHLINE STA. 74+50

LINCOLN AVENUE (STH 42)

CONDUIT (TYP.)
SANITARY SEWER PIPE (TYP.)
WATERMAIN (TYP.)
STORM SEWER INLET (TYP.)
WATER VALVE (TYP.)
STREET LIGHT POLE (TYP.)
HYDRANT (TYP.)
PULL BOX (TYP.)

2312030109
KRAJNIK CHEVROLET
3303 LINCOLN AVENUE

2312030403
CHARTER COMMUNICATIONS
3315 LINCOLN AVENUE

3130010108
VINCENT & CHERYL
BURKE
3405 LINCOLN AVENUE

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	OVERVIEW DETAILS	SHEET	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\OVERVIEW DETAILS.DWG
WIS 42 LINCOLN - OVERVIEW DETAILS - OVERVIEW_07

PLOT DATE : 9/12/2016 10:19 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

N

3090010603
LARIS VALDRE
1448 TERRACE COURT

3090010505
TIMOTHY LOHR
1005 35TH PLACE

2361010011
STREU CONSTRUCTION COMP.
3612 LINCOLN AVENUE

35TH STREET

35TH PLACE

TLE

STORM SEWER LATERAL (TYP.)

STORM SEWER PIPE (TYP.)

SIGN (TYP.)

TREE (TYP.)

PI: 78+80.40

PI: 80+50.00

MATCHLINE STA. 74+50

75+00

76+00

77+00

78+00

79+00

80+00

STORM SEWER MANHOLE (TYP.)

LINCOLN AVENUE (STH 42)

SANITARY SEWER PIPE (TYP.)

CONDUIT (TYP.)

WATERMAIN (TYP.)

PULL BOX (TYP.)

SANITARY SEWER MANHOLE (TYP.)

STORM SEWER INLET (TYP.)

HYDRANT (TYP.)

WATER VALVE (TYP.)

STREET LIGHT POLE (TYP.)

2312020557
BRUCE MOFFATT
STORAGE UNITS
3501 LINCOLN AVENUE

2312020209
TWO RIVERS BUSES INC.
3515 LINCOLN AVENUE

2312020405
BRUCE MOFFATT
3601 LINCOLN AVENUE

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	OVERVIEW DETAILS	SHEET 26	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\OVERVIEW DETAILS.DWG
WIS 42 LINCOLN - OVERVIEW DETAILS - OVERVIEW_08

PLOT DATE : 9/12/2016 10:19 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

2

N

CURB & GUTTER RADIUS STAKING INFORMATION

POINT NO.	STATION	OFFSET	RADIUS
1A	35+63.82	49.00' LT.	25.0'
1B	36+43.83	49.00' LT.	25.0'
1C	37+61.79	5.00' LT.	19.0'
1D	37+81.07	33.00' LT.	15.0'
1E	35+60.89	49.00' RT.	25.0'
1F	36+46.86	43.00' RT.	25.0'
1G	37+87.99	33.00' RT.	15.0'
1H	38+07.28	5.00' RT.	19.0'

22ND STREET (STH 42)

23RD STREET

BP: 32+44.07

MATCHLINE STA. 38+50

1560010162
THE FOUR SEAS BUILDING
PARTNERSHIP LLP
1010 22ND ST.

1560050216
ARTHUR ALLIE
2314 LINCOLN AVENUE

1560052009
GLADYS BEAUDIN

1470011306
PATSY'S HWY 42 MOBILE
MART, LLC
816 22ND ST

1470010609
NEW BANCSHARES, INC.
2221 LINCOLN AVENUE

1470021107
GEORGE & EDITH FRASCH
2305 LINCOLN AVENUE

1470021009
ROSE LECLAIR

1470020901
DAVID LEE BIELY

EDWARD BARUTH
2308 23RD ST.

LINCOLN AVENUE (STH 42)

STA. 33+37, 32.5' LT.
CONCRETE SIDEWALK 4-INCH
37.5' LT.
STA. 33+38
A-30
33.5' LT.
STA. 35+15
BEGIN 10' TAPER
FROM 6-INCH CURB HEAD
TO 4-INCH CURB HEAD
STA. 35+25
STA. 35+74, 44.0' LT.
STA. 35+60, 33.5' LT.
A-30
SPECIAL
(4-INCH
CURB HEAD)
SAWING CONCRETE REQ'D.
78.5' LT.
78.5' LT.
74.5' LT.
STA. 36+38
45.5' LT.
CONCRETE CURB PEDESTRIAN
STA. 36+45
42.5' LT.
CONCRETE STEPS
A-30
37.5' LT.
37.5' LT.
SAWING CONCRETE REQ'D.
STA. 33+10
SHREDDED HARDWOOD BARK MULCH
A-30
SPECIAL
(4-INCH CURB HEAD)
BETWEEN DRIVEWAYS
32.5' RT.
37.5' RT.
A-30
SPECIAL
PARKING LOT
37.5' RT.
A-30
SPECIAL
PARKING LOT
A-30
SPECIAL
(4-INCH CURB HEAD)
BETWEEN DRIVEWAYS
53' RT.
SAWING CONCRETE REQ'D.
59.0' RT.
SAWING CONCRETE REQ'D.
70.0' RT.
58.5' RT.
37.5' RT.
37.5' RT.
A-30
37.5' RT.
37.5' RT.
37.5' RT.
42.5' RT.

33+00 34+00 35+00 36+00 37+00 38+00

587.98 588.07 587.84 587.71 587.59 587.47 587.38 587.37 587.43 587.56 587.71 587.85 587.98 588.09 588.05 587.94 587.80 587.75 587.87 587.99 588.09
588.44 588.24 588.06 587.93 587.81 587.69 587.60 587.59 587.65 587.78 587.96 588.13 588.26 588.31 588.27 588.16 588.02 587.97 588.00 588.09 588.19
588.53 588.40 588.28 588.15 588.03 587.91 587.82 587.81 587.87 588.00 588.18 588.35 588.48 588.53 588.49 588.38 588.24 588.19 588.22 588.31 588.41
588.40 588.20 588.06 587.93 587.81 587.69 587.60 587.59 587.65 587.78 587.96 588.13 588.26 588.31 588.27 588.16 588.02 587.97 588.00 588.09 588.19
587.96 587.84 587.71 587.59 587.47 587.38 587.37 587.43 587.56 587.73 587.90 587.94 588.21 588.17 588.06 587.92 587.87 587.90 587.90 587.97
588.07 587.53 587.82

587.16 587.26 587.50 587.60 587.37 587.65 587.58 587.45 587.65 587.67 587.59

CURB & GUTTER STAKING INFORMATION

POINT NO.	DESCRIPTION	STATION	OFFSET	RADIUS	FLAG ELEV.
100	PT	33+18.27	22.00' LT.	MATCH	587.96
101	PC	35+63.83	22.00' LT.	27.0'	587.62
102	MID PT.	35+82.97	29.96' LT.	27.0'	587.42
103	PT	35+90.82	49.16' LT.	27.0'	587.10
104	PC	36+16.83	48.85' LT.	27.0'	587.32
105	MID PT.	36+24.79	29.85' LT.	27.0'	587.63
106	PT	36+43.83	22.00' LT.	27.0'	588.08
107	PC	37+61.75	22.00' LT.	17.0'	587.75
108	PT/PC	37+71.43	19.00' LT.	17.0'/17.0'	587.83
109	PT	37+81.11	16.00' LT.	17.0'	587.91

CURB & GUTTER STAKING INFORMATION

POINT NO.	DESCRIPTION	STATION	OFFSET	RADIUS	FLAG ELEV.
110	PC	35+60.89	22.00' RT.	27.0'	587.61
111	MID PT.	35+79.92	29.85' RT.	27.0'	587.49
112	PT	35+87.89	48.84' RT.	27.0'	587.34
113	PC	36+19.86	43.07' RT.	27.0'	587.48
114	MID PT.	36+27.74	23.93' RT.	27.0'	587.90
115	PT	36+46.86	16.00' RT.	27.0'	588.21
116	PC	37+87.95	16.00' RT.	17.0'	587.94
117	PT/PC	37+97.64	19.00' RT.	17.0'/17.0'	587.92
118	PT	38+07.32	22.00' RT.	17.0'	587.90

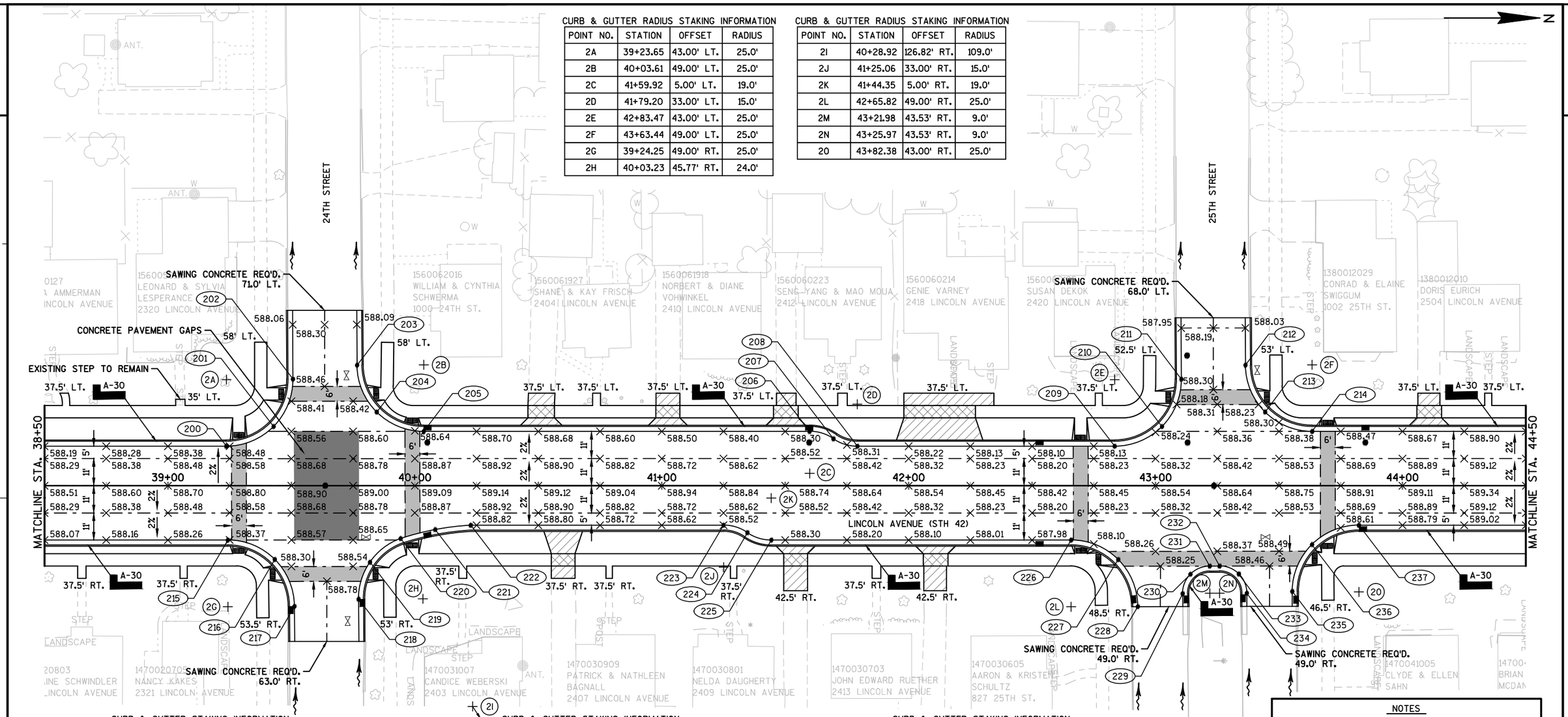
NOTES

1. ELEVATIONS ARE AT 25-FOOT INTERVALS.
2. RADIUS DIMENSIONS ARE TO THE FACE OF CURB.

LEGEND

- LONGITUDINAL JOINT
- CONCRETE DRIVEWAY 6-INCH
- CONCRETE SIDEWALK 6-INCH
- COLORING CONCRETE CUSTOM
- X-XX CONCRETE CURB & GUTTER XX-INCH TYPE X
- MANHOLE COVER
- INLET COVER
- WATER VALVE
- DRAINAGE DIRECTION

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PAVING DETAILS	SHEET 27	E



CURB & GUTTER RADIUS STAKING INFORMATION

POINT NO.	STATION	OFFSET	RADIUS
2A	39+23.65	43.00' LT.	25.0'
2B	40+03.61	49.00' LT.	25.0'
2C	41+59.92	5.00' LT.	19.0'
2D	41+79.20	33.00' LT.	15.0'
2E	42+83.47	43.00' LT.	25.0'
2F	43+63.44	49.00' LT.	25.0'
2G	39+24.25	49.00' RT.	25.0'
2H	40+03.23	45.77' RT.	24.0'

CURB & GUTTER RADIUS STAKING INFORMATION

POINT NO.	STATION	OFFSET	RADIUS
2I	40+28.92	126.82' RT.	109.0'
2J	41+25.06	33.00' RT.	15.0'
2K	41+44.35	5.00' RT.	19.0'
2L	42+65.82	49.00' RT.	25.0'
2M	43+21.98	43.53' RT.	9.0'
2N	43+25.97	43.53' RT.	9.0'
2O	43+82.38	43.00' RT.	25.0'

CURB & GUTTER STAKING INFORMATION

POINT NO.	DESCRIPTION	STATION	OFFSET	RADIUS	FLAG ELEV.
200	PC	39+23.65	16.00' LT.	27.0'	588.48
201	MID PT.	39+42.80	23.97' LT.	27.0'	588.54
202	PT	39+50.65	43.18' LT.	27.0'	588.31
203	PC	39+76.61	48.83' LT.	27.0'	588.25
204	MID PT.	39+84.58	29.85' LT.	27.0'	588.46
205	PT	40+03.61	22.00' LT.	27.0'	588.66
206	PC	41+59.88	22.00' LT.	17.0'	588.26
207	PT/PC	41+69.56	19.00' LT.	17.0'/17.0'	588.28
208	PT	41+79.24	16.00' LT.	17.0'	588.30
209	PC	42+83.47	16.00' LT.	27.0'	588.15
210	MID PT.	43+02.61	23.96' LT.	27.0'	588.26
211	PT	43+10.47	43.14' LT.	27.0'	588.10
212	PC	43+36.44	48.87' LT.	27.0'	588.13

CURB & GUTTER STAKING INFORMATION

POINT NO.	DESCRIPTION	STATION	OFFSET	RADIUS	FLAG ELEV.
213	MID PT.	43+44.39	29.86' LT.	27.0'	588.26
214	PT	43+63.44	22.00' LT.	27.0'	588.39
215	PC	39+24.25	22.00' RT.	27.0'	588.36
216	MID PT.	39+43.28	29.84' RT.	27.0'	588.25
217	PT	39+51.25	48.82' RT.	27.0'	588.14
218	PC	39+77.23	45.94' RT.	26.0'	588.29
219	MID PT.	39+81.85	30.97' RT.	26.0'	588.51
220	PT/PC	39+94.24	21.37' RT.	26.0'/111.0'	588.62
221	MID PT.	40+08.27	17.76' RT.	111.0'	588.72
222	PT	40+22.64	16.00' RT.	111.0'	588.82
223	PC	41+25.02	16.00' RT.	17.0'	588.52
224	PT/PC	41+34.70	19.00' RT.	17.0'/17.0'	588.42
225	PT	41+44.38	22.00' RT.	17.0'	588.32

CURB & GUTTER STAKING INFORMATION

POINT NO.	DESCRIPTION	STATION	OFFSET	RADIUS	FLAG ELEV.
226	PC	42+65.82	22.00' RT.	27.0'	587.99
227	MID PT.	42+84.89	29.89' RT.	27.0'	588.23
228	PT	42+92.82	48.95' RT.	27.0'	588.12
229	PC	43+10.98	43.68' RT.	11.0'	588.22
230	MID PT.	43+14.14	35.82' RT.	11.0'	588.27
231	PT	43+21.96	32.53' RT.	11.0'	588.33
232	PC	43+25.95	32.53' RT.	11.0'	588.37
233	MID PT.	43+33.74	35.74' RT.	11.0'	588.48
234	PT	43+36.97	43.51' RT.	11.0'	588.59
235	PC	43+55.38	42.76' RT.	27.0'	588.47
236	MID PT.	43+63.37	23.82' RT.	27.0'	588.55
237	PT	43+82.38	16.00' RT.	27.0'	588.64

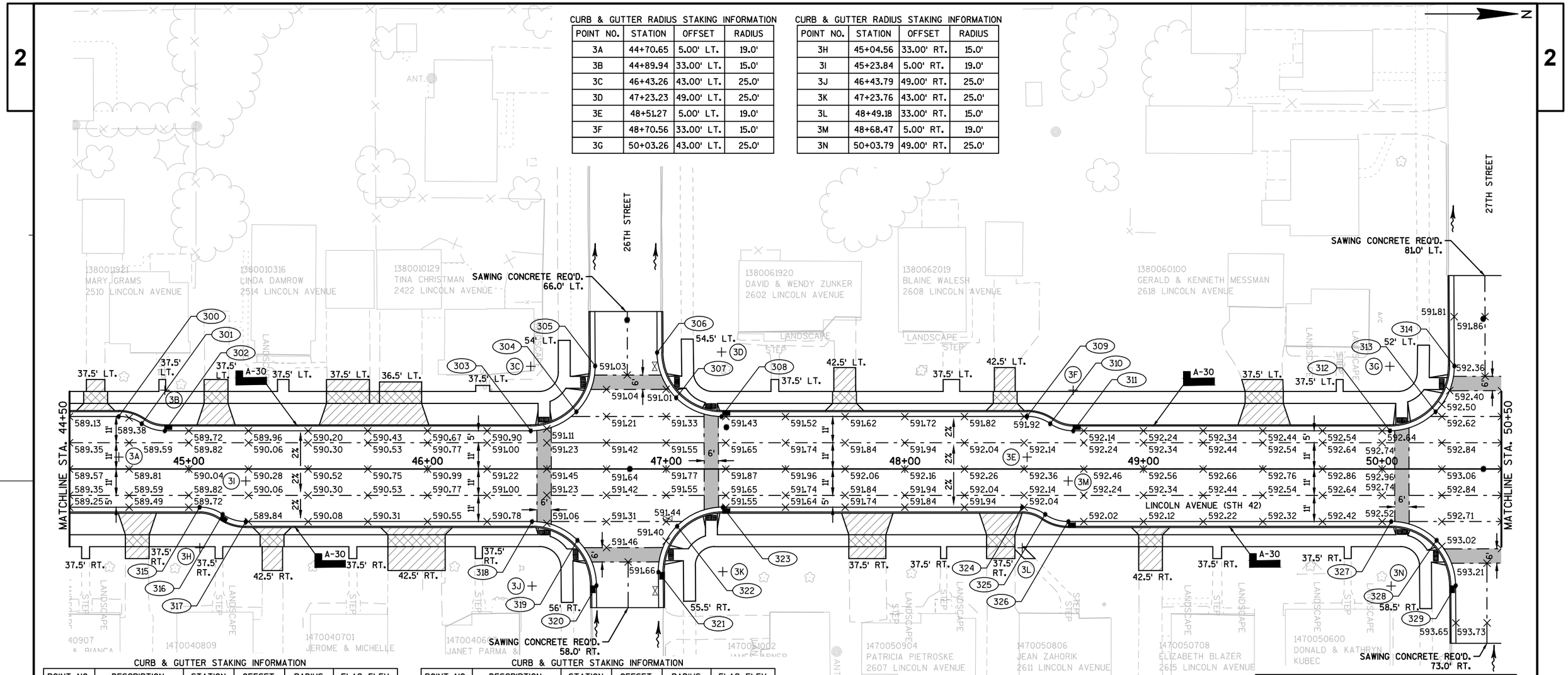
NOTES

1. ELEVATIONS ARE AT 25-FOOT INTERVALS.
2. RADIUS DIMENSIONS ARE TO THE FACE OF CURB.

LEGEND

- LONGITUDINAL JOINT
- CONCRETE DRIVEWAY 6-INCH
- CONCRETE SIDEWALK 6-INCH
- COLORING CONCRETE CUSTOM
- X-XX CONCRETE CURB & GUTTER XX-INCH TYPE X
- MANHOLE COVER
- INLET COVER
- WATER VALVE
- DRAINAGE DIRECTION

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PAVING DETAILS	SHEET 28	E



CURB & GUTTER RADIUS STAKING INFORMATION

POINT NO.	STATION	OFFSET	RADIUS
3A	44+70.65	5.00' LT.	19.0'
3B	44+89.94	33.00' LT.	15.0'
3C	46+43.26	43.00' LT.	25.0'
3D	47+23.23	49.00' LT.	25.0'
3E	48+51.27	5.00' LT.	19.0'
3F	48+70.56	33.00' LT.	15.0'
3G	50+03.26	43.00' LT.	25.0'

CURB & GUTTER RADIUS STAKING INFORMATION

POINT NO.	STATION	OFFSET	RADIUS
3H	45+04.56	33.00' RT.	15.0'
3I	45+23.84	5.00' RT.	19.0'
3J	46+43.79	49.00' RT.	25.0'
3K	47+23.76	43.00' RT.	25.0'
3L	48+49.18	33.00' RT.	15.0'
3M	48+68.47	5.00' RT.	19.0'
3N	50+03.79	49.00' RT.	25.0'

CURB & GUTTER STAKING INFORMATION

POINT NO.	DESCRIPTION	STATION	OFFSET	RADIUS	FLAG ELEV.
300	PC	44+70.61	22.00' LT.	17.0'	589.33
301	PT/PC	44+80.29	19.00' LT.	17.0'/17.0'	589.48
302	PT	44+89.98	16.00' LT.	17.0'	589.63
303	PC	46+43.26	16.00' LT.	27.0'	591.07
304	MID PT.	46+62.41	23.97' LT.	27.0'	591.18
305	PT	46+70.26	43.16' LT.	27.0'	590.82
306	PC	46+96.23	48.85' LT.	27.0'	590.74
307	MID PT.	47+04.19	29.86' LT.	27.0'	591.08
308	PT	47+23.23	22.00' LT.	27.0'	591.42
309	PC	48+51.24	22.00' LT.	17.0'	591.93
310	PT/PC	48+60.92	19.00' LT.	17.0'/17.0'	592.03
311	PT	48+70.60	16.00' LT.	17.0'	592.12
312	PC	50+03.26	16.00' LT.	27.0'	592.65
313	MID PT.	50+22.41	23.97' LT.	27.0'	592.56
314	PT	50+30.26	43.16' LT.	27.0'	592.24

CURB & GUTTER STAKING INFORMATION

POINT NO.	DESCRIPTION	STATION	OFFSET	RADIUS	FLAG ELEV.
315	PC	45+04.52	16.00' RT.	17.0'	589.77
316	PT/PC	45+14.20	19.00' RT.	17.0'/17.0'	589.80
317	PT	45+23.88	22.00' RT.	17.0'	589.83
318	PC	46+43.79	22.00' RT.	27.0'	590.96
319	MID PT.	46+62.83	29.85' RT.	27.0'	591.29
320	PT	46+70.79	48.84' RT.	27.0'	591.62
321	PC	46+96.76	43.15' RT.	27.0'	591.33
322	MID PT.	47+04.61	23.96' RT.	27.0'	591.43
323	PT	47+23.76	16.00' RT.	27.0'	591.54
324	PC	48+49.14	16.00' RT.	17.0'	592.04
325	PT/PC	48+58.82	19.00' RT.	17.0'/17.0'	592.02
326	PT	48+68.50	22.00' RT.	17.0'	592.00
327	PC	50+03.79	22.00' RT.	27.0'	592.54
328	MID PT.	50+22.83	29.85' RT.	27.0'	592.97
329	PT	50+30.79	48.84' RT.	27.0'	593.29

NOTES

1. ELEVATIONS ARE AT 25-FOOT INTERVALS.
2. RADIUS DIMENSIONS ARE TO THE FACE OF CURB.

LEGEND

- LONGITUDINAL JOINT
- CONCRETE DRIVEWAY 6-INCH
- CONCRETE SIDEWALK 6-INCH
- COLORING CONCRETE CUSTOM
- X-XX CONCRETE CURB & GUTTER XX-INCH TYPE X
- MANHOLE COVER
- INLET COVER
- WATER VALVE
- DRAINAGE DIRECTION

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PAVING DETAILS	SHEET 29	E

2

2

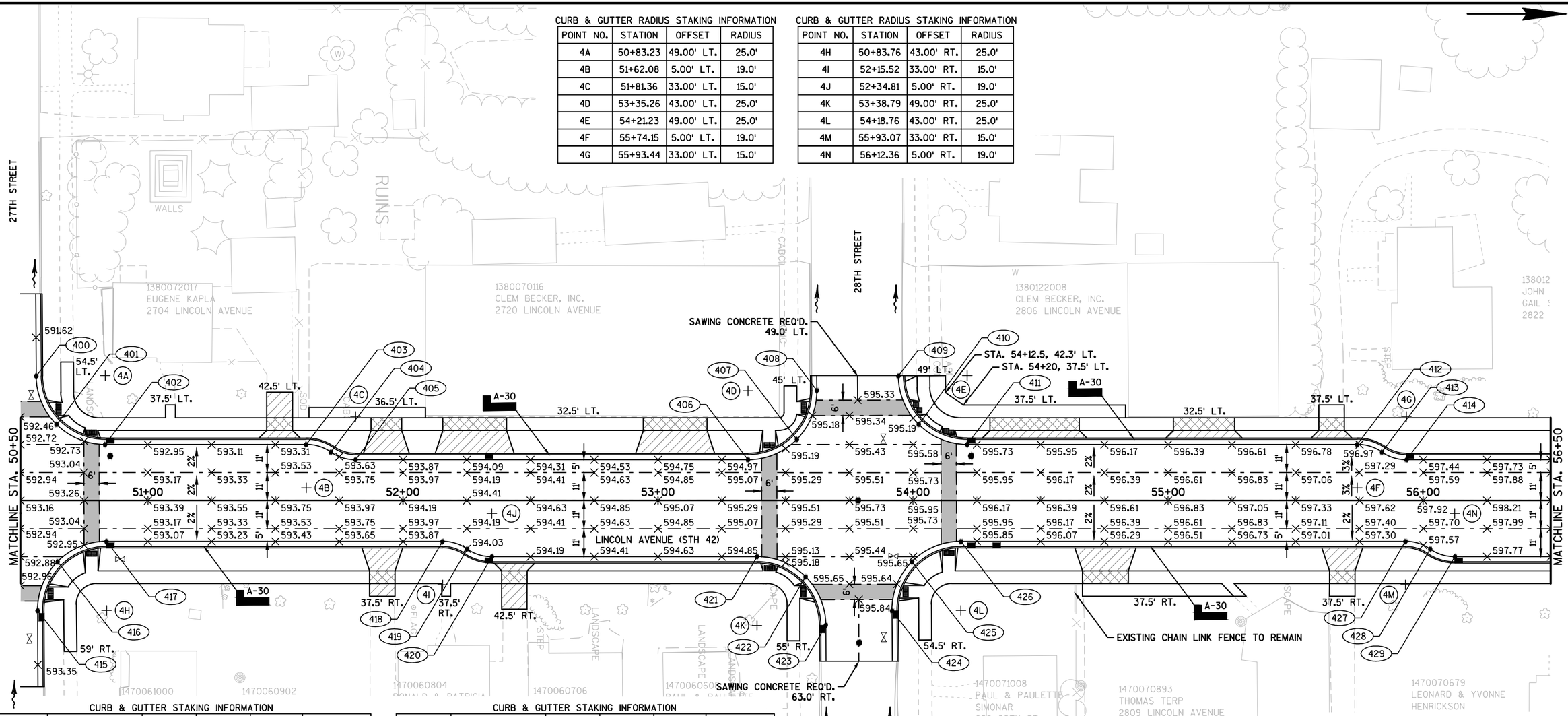
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CURB & GUTTER RADIUS STAKING INFORMATION

POINT NO.	STATION	OFFSET	RADIUS
4A	50+83.23	49.00' LT.	25.0'
4B	51+62.08	5.00' LT.	19.0'
4C	51+81.36	33.00' LT.	15.0'
4D	53+35.26	43.00' LT.	25.0'
4E	54+21.23	49.00' LT.	25.0'
4F	55+74.15	5.00' LT.	19.0'
4G	55+93.44	33.00' LT.	15.0'

CURB & GUTTER RADIUS STAKING INFORMATION

POINT NO.	STATION	OFFSET	RADIUS
4H	50+83.76	43.00' RT.	25.0'
4I	52+15.52	33.00' RT.	15.0'
4J	52+34.81	5.00' RT.	19.0'
4K	53+38.79	49.00' RT.	25.0'
4L	54+18.76	43.00' RT.	25.0'
4M	55+93.07	33.00' RT.	15.0'
4N	56+12.36	5.00' RT.	19.0'



CURB & GUTTER STAKING INFORMATION

POINT NO.	DESCRIPTION	STATION	OFFSET	RADIUS	FLAG ELEV.
400	PC	50+56.23	48.85' LT.	27.0'	592.11
401	MID PT.	50+64.19	29.86' LT.	27.0'	592.53
402	PT	50+83.23	22.00' LT.	27.0'	592.85
403	PC	51+62.04	22.00' LT.	17.0'	593.42
404	PT/PC	51+71.72	19.00' LT.	17.0'/17.0'	593.56
405	PT	51+81.40	16.00' LT.	17.0'	593.71
406	PC	53+35.26	16.00' LT.	27.0'	595.06
407	MID PT.	53+54.41	23.97' LT.	27.0'	595.23
408	PT	53+62.26	43.16' LT.	27.0'	595.13
409	PC	53+94.23	48.85' LT.	27.0'	594.93
410	MID PT.	54+02.19	29.86' LT.	27.0'	595.24
411	PT	54+21.23	22.00' LT.	27.0'	595.70
412	PC	55+74.12	22.00' LT.	17.0'	596.96
413	PT/PC	55+83.80	19.00' LT.	17.0'/17.0'	597.16
414	PT	55+93.48	16.00' LT.	17.0'	597.36

CURB & GUTTER STAKING INFORMATION

POINT NO.	DESCRIPTION	STATION	OFFSET	RADIUS	FLAG ELEV.
415	PC	50+56.76	43.15' RT.	27.0'	592.81
416	MID PT.	50+64.61	23.96' RT.	27.0'	592.91
417	PT	50+83.76	16.00' RT.	27.0'	592.98
418	PC	52+15.48	16.00' RT.	17.0'	594.01
419	PT/PC	52+25.16	19.00' RT.	17.0'/17.0'	594.03
420	PT	52+34.85	22.00' RT.	17.0'	594.06
421	PC	53+38.79	22.00' RT.	27.0'	594.97
422	MID PT.	53+57.83	29.86' RT.	27.0'	595.36
423	PT	53+65.79	48.85' RT.	27.0'	595.74
424	PC	53+91.76	43.16' RT.	27.0'	595.59
425	MID PT.	53+99.61	23.97' RT.	27.0'	595.69
426	PT	54+18.76	16.00' RT.	27.0'	595.80
427	PC	55+93.03	16.00' RT.	17.0'	597.52
428	PT/PC	56+02.72	19.00' RT.	17.0'/17.0'	597.57
429	PT	56+12.40	22.00' RT.	17.0'	597.62

NOTES

1. ELEVATIONS ARE AT 25-FOOT INTERVALS.
2. RADIUS DIMENSIONS ARE TO THE FACE OF CURB.

LEGEND

- LONGITUDINAL JOINT
- CONCRETE DRIVEWAY 6-INCH
- CONCRETE SIDEWALK 6-INCH
- COLORING CONCRETE CUSTOM
- X-XX CONCRETE CURB & GUTTER XX-INCH TYPE X
- MANHOLE COVER
- INLET COVER
- WATER VALVE
- DRAINAGE DIRECTION

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PAVING DETAILS	SHEET 30	E

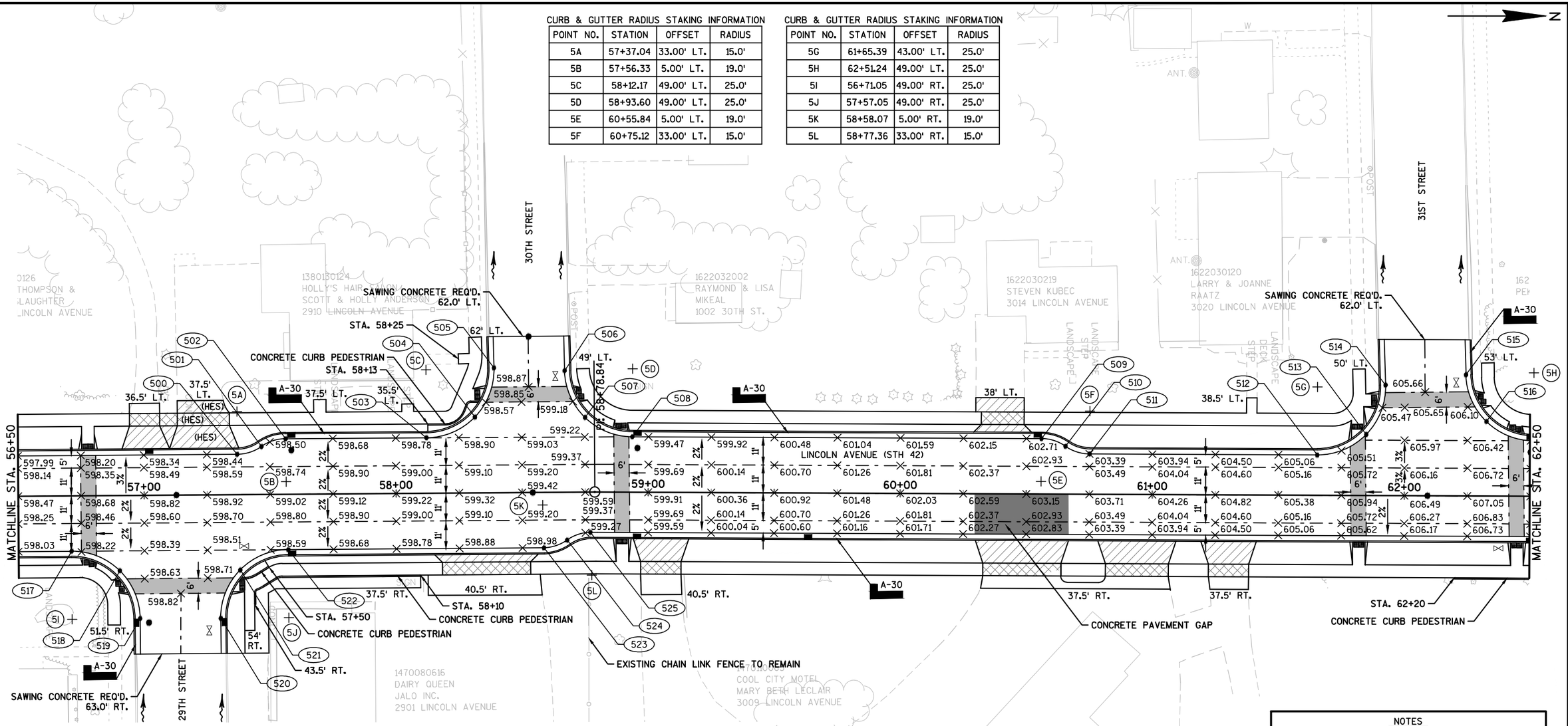
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CURB & GUTTER RADIUS STAKING INFORMATION

POINT NO.	STATION	OFFSET	RADIUS
5A	57+37.04	33.00' LT.	15.0'
5B	57+56.33	5.00' LT.	19.0'
5C	58+12.17	49.00' LT.	25.0'
5D	58+93.60	49.00' LT.	25.0'
5E	60+55.84	5.00' LT.	19.0'
5F	60+75.12	33.00' LT.	15.0'

CURB & GUTTER RADIUS STAKING INFORMATION

POINT NO.	STATION	OFFSET	RADIUS
5G	61+65.39	43.00' LT.	25.0'
5H	62+51.24	49.00' LT.	25.0'
5I	56+71.05	49.00' RT.	25.0'
5J	57+57.05	49.00' RT.	25.0'
5K	58+58.07	5.00' RT.	19.0'
5L	58+77.36	33.00' RT.	15.0'



CURB & GUTTER STAKING INFORMATION

POINT NO.	DESCRIPTION	STATION	OFFSET	RADIUS	FLAG ELEV.
500	PC	57+37.00	16.00' LT.	17.0'	598.49
501	PT/PC	57+46.68	19.00' LT.	17.0'/17.0'	598.53
502	PT	57+56.29	22.00' LT.	17.0'	598.49
503	PC	58+12.17	22.00' LT.	27.0'	598.83
504	MID PT.	58+31.45	30.11' LT.	27.0'	598.63
505	PT	58+39.16	49.56' LT.	27.0'	598.44
506	PC	58+67.19	48.28' LT.	27.0'	599.09
507	MID PT.	58+75.18	29.66' LT.	27.0'	599.23
508	PT	58+93.60	22.00' LT.	27.0'	599.37
509	PC	60+55.94	22.00' LT.	17.0'	602.84
510	PT/PC	60+65.48	19.00' LT.	17.0'/17.0'	603.11
511	PT	60+75.02	16.00' LT.	17.0'	603.39
512	PC	61+65.39	16.00' LT.	27.0'	605.40

CURB & GUTTER STAKING INFORMATION

POINT NO.	DESCRIPTION	STATION	OFFSET	RADIUS	FLAG ELEV.
513	MID PT.	61+84.79	24.22' LT.	27.0'	605.64
514	PT	61+92.38	43.87' LT.	27.0'	605.33
515	PC	62+24.26	48.14' LT.	27.0'	605.86
516	MID PT.	62+32.46	29.60' LT.	27.0'	606.30
517	PC	56+71.05	22.00' RT.	27.0'	598.21
518	MID PT.	56+90.12	29.87' RT.	27.0'	598.53
519	PT	56+98.05	48.92' RT.	27.0'	598.86
520	PC	57+30.05	49.06' RT.	27.0'	598.94
521	MID PT.	57+37.93	29.93' RT.	27.0'	598.67
522	PT	57+57.05	22.00' RT.	27.0'	598.61
523	PC	58+58.47	22.00' RT.	17.0'	599.02
524	PT/PC	58+67.71	19.00' RT.	17.0'/17.0'	599.15
525	PT	58+76.95	16.00' RT.	17.0'	599.29

NOTES

1. ELEVATIONS ARE AT 25-FOOT INTERVALS.
2. RADIUS DIMENSIONS ARE TO THE FACE OF CURB.

LEGEND

- LONGITUDINAL JOINT
- CONCRETE DRIVEWAY 6-INCH
- CONCRETE SIDEWALK 6-INCH
- COLORING CONCRETE CUSTOM
- X-XX CONCRETE CURB & GUTTER XX-INCH TYPE X
- MANHOLE COVER
- INLET COVER
- WATER VALVE
- DRAINAGE DIRECTION

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PAVING DETAILS	SHEET 31	E

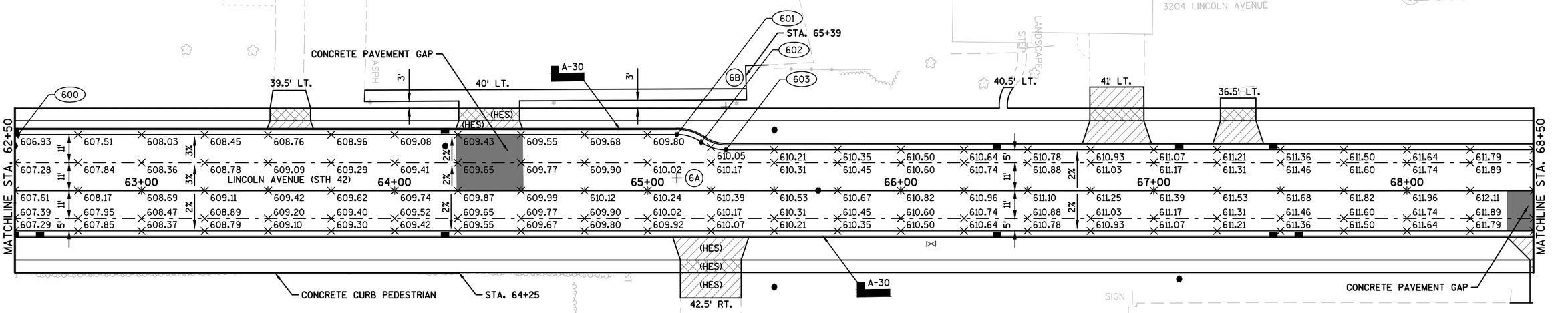
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CURB & GUTTER RADIUS STAKING INFORMATION

POINT NO.	STATION	OFFSET	RADIUS
6A	65+11.56	5.00' LT.	19.0'
6B	65+30.84	33.00' LT.	15.0'



CURB & GUTTER STAKING INFORMATION

POINT NO.	DESCRIPTION	STATION	OFFSET	RADIUS	FLAG ELEV.
600	PT	62+51.24	22.00' LT.	27.0'	606.93
601	PC	65+11.52	22.00' LT.	17.0'	609.87
602	PT/PC	65+21.20	19.00' LT.	17.0'/17.0'	609.99
603	PT	65+30.88	16.00' LT.	17.0'	610.10

NOTES

1. ELEVATIONS ARE AT 25-FOOT INTERVALS.
2. RADIUS DIMENSIONS ARE TO THE FACE OF CURB.

LEGEND

- LONGITUDINAL JOINT
- CONCRETE DRIVEWAY 6-INCH
- CONCRETE SIDEWALK 6-INCH
- COLORING CONCRETE CUSTOM
- X-XX CONCRETE CURB & GUTTER XX-INCH TYPE X
- MANHOLE COVER
- INLET COVER
- WATER VALVE
- DRAINAGE DIRECTION

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PAVING DETAILS	SHEET 32	E

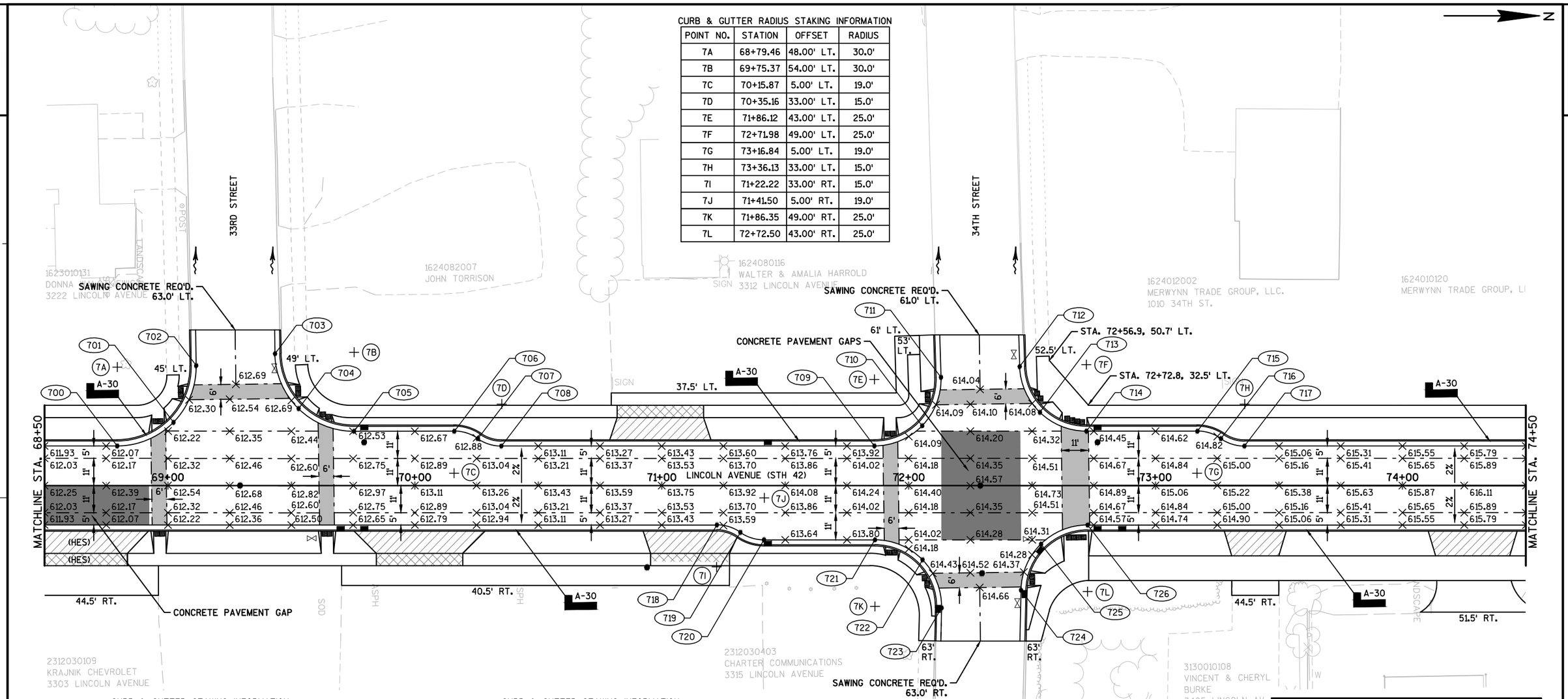
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WIS 42 LINCOLN - PAVING DETAILS - PAVING_06

PLOT DATE : 9/12/2016 11:52 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

CURB & GUTTER RADIUS STAKING INFORMATION

POINT NO.	STATION	OFFSET	RADIUS
7A	68+79.46	48.00' LT.	30.0'
7B	69+75.37	54.00' LT.	30.0'
7C	70+15.87	5.00' LT.	19.0'
7D	70+35.16	33.00' LT.	15.0'
7E	71+86.12	43.00' LT.	25.0'
7F	72+71.98	49.00' LT.	25.0'
7G	73+16.84	5.00' LT.	19.0'
7H	73+36.13	33.00' LT.	15.0'
7I	71+22.22	33.00' RT.	15.0'
7J	71+41.50	5.00' RT.	19.0'
7K	71+86.35	49.00' RT.	25.0'
7L	72+72.50	43.00' RT.	25.0'



CURB & GUTTER STAKING INFORMATION

POINT NO.	DESCRIPTION	STATION	OFFSET	RADIUS	FLAG ELEV.
700	PC	68+79.46	16.00' LT.	32.0'	612.10
701	MID PT.	69+02.28	25.57' LT.	32.0'	612.24
702	PT	69+11.46	48.55' LT.	32.0'	612.38
703	PC	69+43.38	53.45' LT.	32.0'	612.51
704	MID PT.	69+52.94	31.17' LT.	32.0'	612.72
705	PT	69+75.38	22.00' LT.	32.0'	612.53
706	PC	70+15.98	22.00' LT.	17.0'	612.76
707	PT/PC	70+25.52	19.00' LT.	17.0'/17.0'	612.89
708	PT	70+35.05	16.00' LT.	17.0'	613.01
709	PC	71+86.12	16.00' LT.	27.0'	613.99
710	MID PT.	72+05.49	24.19' LT.	27.0'	614.14
711	PT	72+13.11	43.79' LT.	27.0'	614.03
712	PC	72+44.99	48.21' LT.	27.0'	613.84
713	MID PT.	72+53.17	29.63' LT.	27.0'	614.15

CURB & GUTTER STAKING INFORMATION

POINT NO.	DESCRIPTION	STATION	OFFSET	RADIUS	FLAG ELEV.
714	PT	72+71.98	22.00' LT.	27.0'	614.43
715	PC	73+16.94	22.00' LT.	17.0'	614.73
716	PT/PC	73+26.48	19.00' LT.	17.0'/17.0'	614.85
717	PT	73+36.02	16.00' LT.	17.0'	614.97
718	PC	71+22.32	16.00' RT.	17.0'	613.58
719	PT/PC	71+31.86	19.00' RT.	17.0'/17.0'	613.63
720	PT	71+41.40	22.00' RT.	17.0'	613.58
721	PC	71+86.35	22.00' RT.	27.0'	613.88
722	MID PT.	72+05.64	30.11' RT.	27.0'	614.33
723	PT	72+13.35	49.57' RT.	27.0'	614.65
724	PC	72+45.50	42.43' RT.	27.0'	614.46
725	MID PT.	72+53.61	23.71' RT.	27.0'	614.27
726	PT	72+72.50	16.00' RT.	27.0'	614.56

NOTES

1. ELEVATIONS ARE AT 25-FOOT INTERVALS.
2. RADIUS DIMENSIONS ARE TO THE FACE OF CURB.

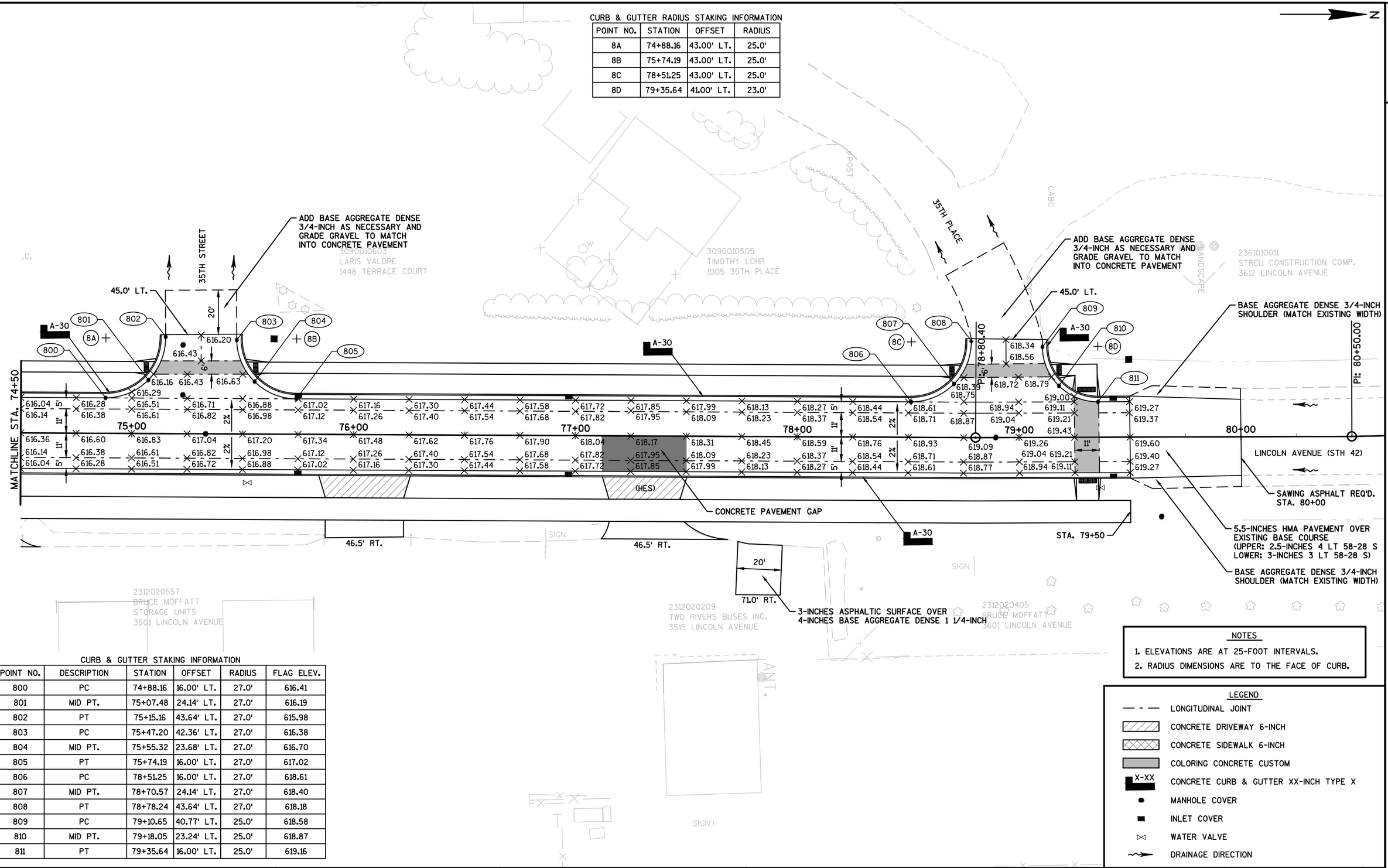
LEGEND

- LONGITUDINAL JOINT
- CONCRETE DRIVEWAY 6-INCH
- CONCRETE SIDEWALK 6-INCH
- COLORING CONCRETE CUSTOM
- X-XX CONCRETE CURB & GUTTER XX-INCH TYPE X
- MANHOLE COVER
- INLET COVER
- WATER VALVE
- DRAINAGE DIRECTION

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PAVING DETAILS	SHEET 33	E

CURB & GUTTER RADIUS STAKING INFORMATION

POINT NO.	STATION	OFFSET	RADIUS
8A	74+88.16	43.00' LT.	25.0'
8B	75+74.19	43.00' LT.	25.0'
8C	78+51.25	43.00' LT.	25.0'
8D	79+35.64	41.00' LT.	23.0'



CURB & GUTTER STAKING INFORMATION

POINT NO.	DESCRIPTION	STATION	OFFSET	RADIUS	FLAG ELEV.
800	PC	74+88.16	16.00' LT.	27.0'	616.41
801	MID PT.	75+07.48	24.14' LT.	27.0'	616.19
802	PT	75+15.16	43.64' LT.	27.0'	615.98
803	PC	75+47.20	42.36' LT.	27.0'	616.38
804	MID PT.	75+55.32	23.68' LT.	27.0'	616.70
805	PT	75+74.19	16.00' LT.	27.0'	617.02
806	PC	78+51.25	16.00' LT.	27.0'	618.61
807	MID PT.	78+70.57	24.14' LT.	27.0'	618.40
808	PT	78+78.24	43.64' LT.	27.0'	618.18
809	PC	79+10.65	40.77' LT.	25.0'	618.58
810	MID PT.	79+18.05	23.24' LT.	25.0'	618.87
811	PT	79+35.64	16.00' LT.	25.0'	619.16

NOTES

1. ELEVATIONS ARE AT 25-FOOT INTERVALS.
2. RADIUS DIMENSIONS ARE TO THE FACE OF CURB.

LEGEND

- LONGITUDINAL JOINT
- CONCRETE DRIVEWAY 6-INCH
- CONCRETE SIDEWALK 6-INCH
- COLORING CONCRETE CUSTOM
- X-XX CONCRETE CURB & GUTTER XX-INCH TYPE X
- MANHOLE COVER
- INLET COVER
- WATER VALVE
- DRAINAGE DIRECTION

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PAVING DETAILS	SHEET 34	E

2

N

THE FOUR SEAS BUILDING PARTNERSHIP LLP
1010 22ND STREET

ASPHALT

CONCRETE

GLADYS BEAUDIN
2304 LINCOLN AVENUE

23RD STREET

STA. 35+80.66, 37.74' LT
STA. 35+78.10, 32.74' LT
STA. 35+67.67, 40.50' LT
8.0' RAD.
STA. 35+70.70, 27.86' LT
STA. 35+65.71, 27.50' LT
STA. 35+85.59, 37.75' LT
STA. 35+82.16, 32.75' LT
STA. 35+70.70, 25.49' LT
STA. 35+65.71, 24.57' LT
5.6%
4.7%
4.6%
4.7%
STA. 35+50
-0.5%
6'
5'
3'
5'
5'
.9
32.3' LT

STA. 36+31.64, 45.48' LT
STA. 36+26.76, 37.82' LT
CONCRETE CURB PEDESTRIAN
STA. 36+39.73, 40.50' LT
8.0' RAD.
STA. 36+35.38, 28.25' LT
STA. 36+44.73, 32.50' LT
STA. 36+40.38, 27.52' LT
STA. 36+50
-3.2%
STA. 36+22.03, 37.81' LT
STA. 36+25.43, 32.82' LT
STA. 36+29.24, 32.83' LT
STA. 36+35.38, 26.00' LT
STA. 36+40.38, 24.74' LT
7.7%
4.7%
4.7%
5'
5'
5'
3'
18.2'

CONCRETE CURB & GUTTER 30-INCH
TYPE A SPECIAL (4-INCH CURB HEAD)

POLES TYPE 5-ALUMINUM

CONCRETE CURB & GUTTER 30-INCH TYPE A

LINCOLN AVENUE (STH 42)

MANHOLE COVER (TYP.)

COLORING CONCRETE CUSTOM (TYP.)

36+00

STA. 35+65.2

STA. 36+35.0

6'

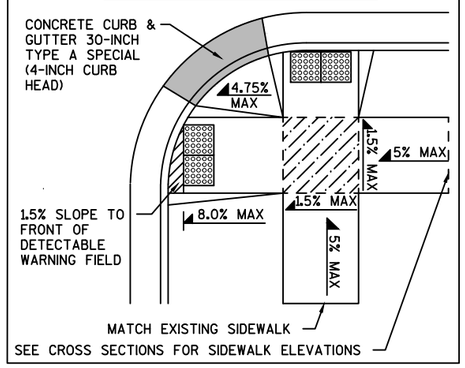
6'

STA. 36+40.46, 19.35' RT

STA. 36+35.46, 21.31' RT

WATER VALVE (TYP.)

TYPICAL CURB RAMP DETAIL



CONCRETE CURB & GUTTER 30-INCH TYPE A

HYDRANT

STA. 35+65.79, 25.00' RT

2'x2' CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA (TYP.)

STA. 35+70.79, 26.59' RT

STA. 35+76.23, 34.33' RT

STA. 35+80.50, 34.32' RT

STA. 35+83.39, 39.31' RT

33.8' RT

STA. 35+50
-0.3%

STA. 35+65.80, 27.96' RT

STA. 35+70.80, 29.85' RT

STA. 35+61.65, 46.50' RT
14.0' RAD.

STA. 35+79.24, 39.32' RT

5.7%
4.0%
4.2%
5.4%
3'
5'
5'
5'
5'
.9

NEW BANCSHARES, INC.
2221 LINCOLN AVENUE

ASPHALT

STORM SEWER INLET COVER TYPE H (TYP.)

STA. 36+23.97, 34.24' RT

STA. 36+22.65, 39.25' RT

STA. 36+27.18, 39.24' RT

STA. 36+28.04, 34.24' RT

STA. 36+38.18, 38.50' RT
6.0' RAD.

STA. 36+35.47, 27.84' RT

STA. 36+40.47, 27.50' RT

STA. 36+50
-3.6%

SIGN (TYP.)

TREE

4.7%
6.4%
4.1%
3.3%
5'
5'
5'
9'
5'

EDWARD BARUTH
828 23RD STREET

CONCRETE CURB & GUTTER 30-INCH TYPE A

NOTES:

1. ADJUST SLOPES TO ACCOMMODATE FIELD CONDITIONS.
2. THE EXACT LOCATION OF THE COLORED CONCRETE CROSSWALKS MAY NEED TO BE ADJUSTED IN THE FIELD TO ALIGN WITH INSTALLED LOCATION OF DETECTABLE WARNING FIELDS.

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CURB RAMP DETAILS: 23RD STREET	SHEET 35	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\CURB RAMP DETAILS.DWG
WIS 42 LINCOLN - CURB RAMP DETAILS - 23RD

PLOT DATE : 9/12/2016 10:14 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 42

2

LEONARD & SYLVIA LESPERANCE
2320 LINCOLN AVENUE

EXISTING STEP TO REMAIN

STEP

STA. 39+40.08, 39.69' LT

STA. 39+38.71, 34.69' LT

STA. 39+27.07, 40.50' LT
8.0' RAD.

STA. 39+31.22, 28.18' LT

STA. 39+26.23, 27.50' LT

STA. 39+00
-0.8%

5.2%

4.7%

STA. 39+47.93, 39.71' LT

STA. 39+46.70, 34.71' LT

24TH STREET

9'

34.2' LT

STA. 39+80.92, 39.76' LT

STA. 39+83.67, 34.77' LT

WILLIAM & CYNTHIA SCHWERMA
1000 25TH STREET

N

STA. 39+86.21, 39.78' LT

STA. 39+87.60, 34.78' LT

STA. 39+99.28, 40.50' LT
8.0' RAD.

STA. 39+96.49, 27.80' LT

STA. 40+01.50, 27.50' LT

4.5%

4.6%

STA. 40+25
-2.0%

4.7%

5.5%

STA. 39+96.50, 25.56' LT

STA. 40+01.50, 24.59' LT

TREE (TYP.)

5.0%

4.42%

PULL BOXES STEEL 24x42-INCH

POLYMER CONCRETE PULL BOX

STA. 39+31.24, 19.71' LT

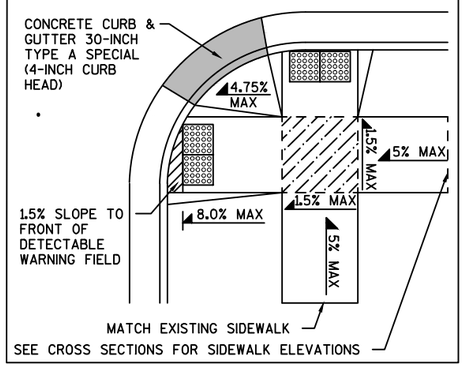
STA. 39+26.24, 18.64' LT

CONCRETE CURB & GUTTER 30-INCH TYPE A

CONCRETE CURB & GUTTER 30-INCH TYPE A

POLES TYPE 5-ALUMINUM

TYPICAL CURB RAMP DETAIL



COLORING CONCRETE CUSTOM (TYP.)

STA. 39+25.8

STA. 39+96.0

40+00

MANHOLE COVER (TYP.)

6'

6'

LINCOLN AVENUE (STH 42)

STORM SEWER INLET COVER TYPE H (TYP.)

STA. 40+01.58, 21.82' RT

CONCRETE CURB & GUTTER 30-INCH TYPE A

STA. 39+96.58, 23.25' RT

WATER VALVE (TYP.)

CONCRETE CURB & GUTTER 30-INCH TYPE A

HYDRANT

STA. 39+26.31, 24.58' RT

STA. 39+31.31, 25.53' RT

STA. 39+43.02, 33.24' RT

2'x2' CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA (TYP.)

STA. 39+46.26, 38.24' RT

STA. 39+89.64, 33.17' RT

SIGN (TYP.)

6.0%

3.7%

3.4%

2.7%

STA. 39+00
-1.9%

STA. 40+25
-2.3%

STA. 39+26.32, 27.50' RT

STA. 39+31.32, 27.98' RT

32.7' RT

4.5%

4.1%

STA. 40+01.61, 27.50' RT

STA. 39+96.59, 28.06' RT

STA. 39+27.80, 40.50' RT
8.0' RAD.

6.2%

5.5%

STA. 40+00.38, 40.50' RT
8.0' RAD.

STA. 39+38.59, 33.25' RT

STA. 39+40.77, 38.25' RT

STA. 39+83.39, 33.18' RT

STA. 39+80.99, 38.18' RT

STA. 39+87.35, 38.17' RT

NANCY KAKES
2321 LINCOLN AVENUE

CONCRETE SIDEWALK

CONCRETE SIDEWALK

CANDICE WEBERSKI
2403 LINCOLN AVENUE

NOTES:

1. ADJUST SLOPES TO ACCOMMODATE FIELD CONDITIONS.
2. THE EXACT LOCATION OF THE COLORED CONCRETE CROSSWALKS MAY NEED TO BE ADJUSTED IN THE FIELD TO ALIGN WITH INSTALLED LOCATION OF DETECTABLE WARNING FIELDS.

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CURB RAMP DETAILS: 24TH STREET	SHEET 36	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\CURB RAMP DETAILS.DWG
WIS 42 LINCOLN - CURB RAMP DETAILS - 24TH

PLOT DATE : 9/12/2016 10:14 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 42

NOTES:

1. ADJUST SLOPES TO ACCOMMODATE FIELD CONDITIONS.
2. THE EXACT LOCATION OF THE COLORED CONCRETE CROSSWALKS MAY NEED TO BE ADJUSTED IN THE FIELD TO ALIGN WITH INSTALLED LOCATION OF DETECTABLE WARNING FIELDS.

N

25TH STREET

LINCOLN AVENUE (STH 42)

SUSAN DEKOK
2420 LINCOLN AVENUE

CONRAD & ELAINE SWIGGUM
1002 25TH STREET

AARON & KRISTEN SCHULTZ
827 25TH STREET

CLYDE & ELLEN SAHN
828 25TH STREET

STA. 42+99.87, 38.34' LT
STA. 42+87.05, 40.50' LT
8.0' RAD.
CONCRETE SIDEWALK
STA. 42+72.16, 27.50' LT
STA. 42+67.16, 27.50' LT
STA. 42+50
-2.4%
TREE
STA. 42+72.17, 18.50' LT
STA. 42+67.17, 18.50' LT
STA. 42+66.7
STA. 43+07.52, 38.36' LT
STA. 43+05.99, 33.35' LT
STA. 42+97.90, 33.34' LT
CONCRETE CURB & GUTTER 30-INCH TYPE A (6-INCH CURB HEAD)
STA. 43+46.33, 38.42' LT
STA. 43+48.41, 33.43' LT
STA. 43+59.32, 40.50' LT
8.0' RAD.
STA. 43+67.25, 27.50' LT
STA. 43+72.25, 27.50' LT
STA. 43+41.35, 38.41' LT
STA. 43+44.53, 33.42' LT
POLES TYPE 5-ALUMINUM
STA. 44+00
-4.0%
STA. 43+67.25, 24.50' LT
STA. 43+72.25, 24.50' LT
MANHOLE COVER (TYP.)
STA. 43+66.7
44+00

TYPICAL CURB RAMP DETAIL

CONCRETE CURB & GUTTER 30-INCH TYPE A SPECIAL (4-INCH CURB HEAD)
14.75% MAX
4.5% MAX
5% MAX
1.5% SLOPE TO FRONT OF DETECTABLE WARNING FIELD
8.0% MAX
1.5% MAX
5% MAX
MATCH EXISTING SIDEWALK
SEE CROSS SECTIONS FOR SIDEWALK ELEVATIONS

STA. 42+67.25, 24.54' RT
STA. 42+72.25, 25.36' RT
CONCRETE SIDEWALK 4-INCH
STA. 42+76.76, 27.08' RT
2'x2' CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA (TYP.)
STA. 42+83.56, 32.10' RT
COLORING CONCRETE CUSTOM (TYP.)
26.5' RT
STA. 42+50
-2.3%
STA. 42+67.25, 27.60' RT
STA. 42+72.25, 27.42' RT
STA. 42+65.50, 42.50' RT
10.0' RAD.
STA. 42+76.33, 32.11' RT
CONCRETE CURB & GUTTER 30-INCH TYPE A
STA. 43+72.25, 20.69' RT
STA. 43+67.25, 23.73' RT
CONCRETE SIDEWALK 4-INCH
WATER VALVE (TYP.)
STA. 43+67.25, 26.96' RT
STA. 43+63.86, 26.97' RT
STA. 43+60.54, 31.97' RT
STORM SEWER INLET COVER TYPE H (TYP.)
SIGN (TYP.)
STA. 44+00
-2.4%
STA. 43+72.25, 27.50' RT
STA. 43+76.28, 36.50' RT
4.0' RAD.
STA. 43+67.27, 31.96' RT
CONCRETE CURB & GUTTER 30-INCH TYPE A
CONCRETE CURB & GUTTER 30-INCH TYPE A

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CURB RAMP DETAILS: 25TH STREET	SHEET 37	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\CURB RAMP DETAILS.DWG
WIS 42 LINCOLN - CURB RAMP DETAILS - 25TH
PLOT DATE : 9/12/2016 10:14 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 42

TINA CHRISTMAN
2422 LINCOLN AVENUE

CONCRETE SIDEWALK

STA. 46+59.82, 38.83' LT
STA. 46+67.41, 38.85' LT
STA. 46+65.99, 33.84' LT
STA. 46+46.82, 40.50' LT
8.0' RAD.
STA. 46+51.32, 28.30' LT
STA. 46+46.32, 27.50' LT
STA. 46+25
-0.5%
STA. 46+57.98, 33.83' LT
STA. 46+51.33, 19.87' LT
STA. 46+46.34, 18.70' LT
TREE (TYP.)
POLYMER CONCRETE PULL BOX
CONCRETE CURB & GUTTER 30-INCH TYPE A

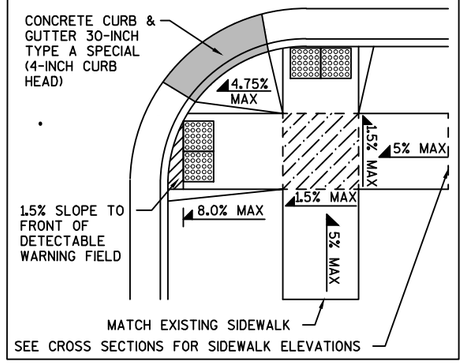
26TH STREET

33.4' LT

STA. 47+00.91, 38.90' LT
STA. 47+03.93, 33.91' LT
STA. 47+06.53, 38.91' LT
STA. 47+08.31, 33.92' LT
STA. 47+19.51, 40.50' LT
8.0' RAD.
STA. 47+16.37, 27.89' LT
STA. 47+21.37, 27.50' LT
STA. 47+50
-2.4%
STA. 47+16.38, 25.48' LT
STA. 47+21.38, 24.57' LT
DAVID & WENDY ZUNKER
2602 LINCOLN AVENUE
CONCRETE SIDEWALK
CONCRETE CURB & GUTTER 30-INCH TYPE A
POLES TYPE 5-ALUMINUM
LINCOLN AVENUE (STH 42)

N

TYPICAL CURB RAMP DETAIL



STA. 46+45.9
47+00
STA. 47+15.9
MANHOLE COVER (TYP.)
COLORING CONCRETE CUSTOM (TYP.)

CONCRETE CURB & GUTTER 30-INCH TYPE A
HYDRANT
STA. 46+46.41, 24.64' RT
2'x2' CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA (TYP.)
STA. 46+51.41, 25.71' RT
STA. 46+58.40, 33.43' RT
STA. 46+62.70, 33.42' RT
STA. 46+25
-1.0%
STA. 46+46.41, 27.50' RT
STA. 46+51.42, 28.23' RT
STA. 46+65.87, 38.42' RT
32.9' RT
STA. 46+46.96, 41.50' RT
9.0' RAD.
STA. 46+60.93, 38.42' RT
JANET PARMA & DAVID STODOLA
2517 LINCOLN AVENUE
CONCRETE SIDEWALK

WATER VALVE (TYP.)
STORM SEWER INLET COVER TYPE H (TYP.)
CONCRETE CURB & GUTTER 30-INCH TYPE A
STA. 47+21.45, 18.61' RT
STA. 47+16.45, 19.61' RT
STA. 47+09.39, 33.35' RT
STA. 47+01.23, 33.36' RT
SIGN (TYP.)
STA. 47+50
-1.4%
STA. 47+21.47, 27.50' RT
STA. 47+16.47, 28.06' RT
STA. 47+20.25, 40.50' RT
8.0' RAD.
JAMES ABNER
826 26TH STREET
STA. 46+99.71, 38.36' RT
STA. 47+07.24, 38.34' RT

NOTES:

1. ADJUST SLOPES TO ACCOMMODATE FIELD CONDITIONS.
2. THE EXACT LOCATION OF THE COLORED CONCRETE CROSSWALKS MAY NEED TO BE ADJUSTED IN THE FIELD TO ALIGN WITH INSTALLED LOCATION OF DETECTABLE WARNING FIELDS.

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CURB RAMP DETAILS: 26TH STREET	SHEET	E

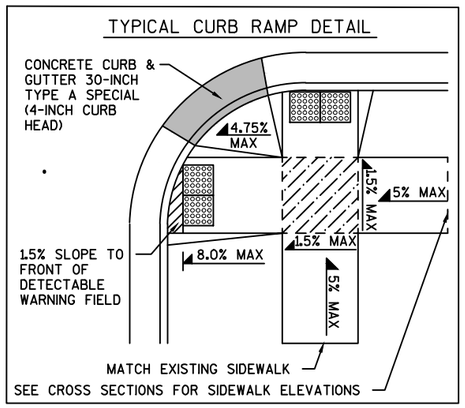
FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\CURB RAMP DETAILS.DWG
WIS 42 LINCOLN - CURB RAMP DETAILS - 26TH
PLOT DATE : 9/12/2016 10:14 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:10_XREF

2

N

STA. 50+19.68, 38.28' LT
STA. 50+17.51, 33.28' LT
STA. 50+06.71, 40.50' LT
8.0' RAD.
STA. 50+10.70, 28.13' LT
STA. 50+05.71, 27.50' LT
STA. 49+75
0.4%
5'
9'
TREE (TYP.)
CONCRETE CURB & GUTTER 30-INCH TYPE A
STA. 50+10.72, 19.67' LT
STA. 50+05.72, 18.63' LT
GERALD & KENNETH MESSMAN
2618 LINCOLN AVENUE
CONCRETE SIDEWALK
5.9%
4.4%
4.1%
4.7%
STA. 50+27.31, 38.30' LT
STA. 50+25.76, 33.30' LT
WATER VALVE (TYP.)
6'
32.8' LT
STA. 50+61.17, 38.36' LT
STA. 50+64.38, 33.36' LT
8.0%
4.0%
STA. 50+66.48, 38.37' LT
STA. 50+69.00, 33.37' LT
STA. 50+80.90, 42.50' LT
10.0' RAD.
STA. 50+75.38, 28.56' LT
STA. 50+80.38, 27.50' LT
STA. 51+00
-2.9%
4.1%
5.2%
3'
STA. 50+75.38, 25.80' LT
STA. 50+80.38, 24.67' LT
CONCRETE CURB & GUTTER 30-INCH TYPE A
POLES TYPE 5-ALUMINUM
EUGENE KAPLA
2704 LINCOLN AVENUE
CONCRETE SIDEWALK
LINCOLN AVENUE (STH 42)

TYPICAL CURB RAMP DETAIL



50+00
STA. 50+05.3
MANHOLE COVER (TYP.)
51+00
STA. 50+74.9
6'
COLORING CONCRETE CUSTOM (TYP.)

CONCRETE CURB & GUTTER 30-INCH TYPE A
HYDRANT
STA. 50+05.79, 24.58' RT
2'x2' CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA (TYP.)
STA. 50+10.80, 25.52' RT
STA. 49+86
-2.5%
3'
5'
8.0%
4.7%
STA. 50+05.80, 27.50' RT
STA. 50+10.80, 27.88' RT
STA. 50+07.64, 40.50' RT
8.0' RAD.
STA. 50+18.86, 33.94' RT
STA. 50+20.63, 38.93' RT
DONALD & KATHRYN KUBEC
2617 LINCOLN AVENUE
CONCRETE SIDEWALK
STA. 50+23.11, 33.93' RT
STA. 50+26.13, 38.92' RT
33.4' RT
4.7%
5.0%
27TH STREET
STA. 50+61.02, 33.86' RT
STA. 50+59.61, 38.87' RT
STA. 50+80.46, 18.72' RT
STA. 50+75.46, 19.95' RT
STORM SEWER INLET COVER TYPE H (TYP.)
CONCRETE CURB & GUTTER 30-INCH TYPE A
SIGN (TYP.)
4.4%
3.6%
STA. 51+00
-1.0%
STA. 50+80.47, 27.50' RT
STA. 50+75.47, 28.29' RT
STA. 50+79.95, 40.50' RT
8.0' RAD.
STA. 50+68.78, 33.85' RT
STA. 50+66.93, 38.85' RT
5.4%
STEVEN KAKES
828 27TH STREET

NOTES:

1. ADJUST SLOPES TO ACCOMMODATE FIELD CONDITIONS.
2. THE EXACT LOCATION OF THE COLORED CONCRETE CROSSWALKS MAY NEED TO BE ADJUSTED IN THE FIELD TO ALIGN WITH INSTALLED LOCATION OF DETECTABLE WARNING FIELDS.

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CURB RAMP DETAILS: 27TH STREET	SHEET	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\CURB RAMP DETAILS.DWG
WIS 42 LINCOLN - CURB RAMP DETAILS - 27TH
PLOT DATE : 9/12/2016 10:14 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:10_XREF

2

N

CLEM BECKER, INC.
2720 LINCOLN AVENUE

CONCRETE SIDEWALK

CONCRETE SIDEWALK

28TH STREET

STA. 53+54.38, 38.84' LT

STA. 53+54.34, 33.84' LT

5'

4.0%

5'

STA. 53+47.38, 34.50' LT
2.0' RAD.

STA. 53+41.08, 27.50' LT

4.7%

STA. 53+59.41, 38.85' LT

STA. 53+57.99, 33.85' LT

9'

33.4' LT

STA. 53+98.90, 38.92' LT

CONCRETE SIDEWALK 6-INCH

STA. 53+25
-0.5%

5'

CONCRETE DRIVEWAY 6-INCH

9'

4.4%

5'

4.6%

F

POLYMER CONCRETE PULL BOX

STA. 53+46.08, 27.50' LT

STA. 53+46.09, 21.03' LT

STA. 53+41.09, 19.21' LT

CONCRETE CURB & GUTTER 30-INCH TYPE A

STA. 54+02.52, 38.92' LT

5'

ASPHALT

STA. 54+18.57, 44.50' LT
12.0' RAD.

CLEM BECKER, INC.
2806 LINCOLN AVENUE

ASPHALT

4.7%

STA. 54+25
-2.0%

STA. 54+11.42, 29.09' LT

STA. 54+16.42, 27.50' LT

5'

4.4%

STA. 54+01.93, 33.92' LT

STA. 54+05.27, 33.92' LT

4.7%

5'

2.3%

5'

CONCRETE SIDEWALK 6-INCH

3'

CONCRETE DRIVEWAY 6-INCH

STA. 54+11.42, 26.56' LT

STA. 54+16.42, 24.98' LT

CONCRETE CURB & GUTTER 30-INCH TYPE A

POLES TYPE 5-ALUMINUM

LINCOLN AVENUE (STH 42)

TYPICAL CURB RAMP DETAIL

CONCRETE CURB & GUTTER 30-INCH TYPE A SPECIAL (4-INCH CURB HEAD)

4.75% MAX

1.5% MAX

5% MAX

1.5% MAX

1.5% SLOPE TO FRONT OF DETECTABLE WARNING FIELD

8.0% MAX

5% MAX

MATCH EXISTING SIDEWALK

SEE CROSS SECTIONS FOR SIDEWALK ELEVATIONS

MANHOLE COVER (TYP.)

54+00

COLORING CONCRETE CUSTOM (TYP.)

STA. 53+40.6

STA. 54+11.0

6'

6'

STA. 54+16.51, 18.60' RT

STA. 54+11.50, 19.60' RT

STORM SEWER INLET COVER TYPE H (TYP.)

CONCRETE CURB & GUTTER 30-INCH TYPE A

CONCRETE CURB & GUTTER 30-INCH TYPE A

HYDRANT

STA. 53+41.17, 24.61' RT

2'x2' CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA (TYP.)

STA. 53+46.17, 25.63' RT

WATER VALVE (TYP.)

STA. 54+04.39, 33.25' RT

4.7%

5'

6.3%

SIGN (TYP.)

9'

3'

5.5%

4.7%

STA. 53+25
-1.4%

5'

STA. 53+57.62, 33.32' RT

STA. 53+60.84, 38.32' RT

STA. 54+25
-2.4%

TREE

5'

4.4%

32.8' RT

STA. 53+41.17, 27.50' RT

STA. 53+46.17, 28.00' RT

5'

6'

4.7%

5'

STA. 54+16.51, 27.50' RT

STA. 54+11.51, 28.02' RT

PAUL & PAULETTE SIMONAR
825 28TH STREET

STA. 53+42.57, 40.50' RT
8.0' RAD.

3.4%

STA. 53+53.41, 33.32' RT

STA. 53+55.57, 38.32' RT

5'

STA. 53+96.28, 33.26' RT

STA. 53+94.72, 38.26' RT

5.8%

STA. 54+15.17, 40.50' RT
8.0' RAD.

STA. 54+02.16, 38.25' RT

5'

PAUL & PAULETTE SIMONAR
828 28TH STREET

NOTES:

1. ADJUST SLOPES TO ACCOMMODATE FIELD CONDITIONS.
2. THE EXACT LOCATION OF THE COLORED CONCRETE CROSSWALKS MAY NEED TO BE ADJUSTED IN THE FIELD TO ALIGN WITH INSTALLED LOCATION OF DETECTABLE WARNING FIELDS.

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CURB RAMP DETAILS: 28TH STREET	SHEET 40	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\CURB RAMP DETAILS.DWG
WIS 42 LINCOLN - CURB RAMP DETAILS - 28TH

PLOT DATE : 9/12/2016 10:14 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 42

JOHN THOMPSON & GAIL SLAUGHTER
2822 LINCOLN AVENUE

HOLLY'S HAIR SALON
SCOTTY & HOLLY ANDERSON
2910 LINCOLN AVENUE

CONCRETE SIDEWALK

STA. 56+75.35, 27.51' LT
STA. 56+80.35, 27.51' LT
EL. 598.73
STA. 56+60
-0.8%
POLES TYPE 5-ALUMINUM
SIGN (TYP.)
TREE
5'
6'
4.8%
5'
3.8%
STA. 56+95
1.0%
CONCRETE SIDEWALK 6-INCH
CONCRETE DRIVEWAY 6-INCH HES
CONCRETE SIDEWALK 6-INCH HES
CONCRETE DRIVEWAY 6-INCH
CONCRETE DRIVEWAY 6-INCH HES
3'
STA. 56+75.37, 18.50' LT
STA. 56+80.37, 18.50' LT
CONCRETE CURB & GUTTER 30-INCH TYPE A
CONCRETE DRIVEWAY 6-INCH

N

57+00

STA. 56+74.9
6'
MANHOLE COVER (TYP.)

COLORING CONCRETE CUSTOM (TYP.)

LINCOLN AVENUE (STH 42)

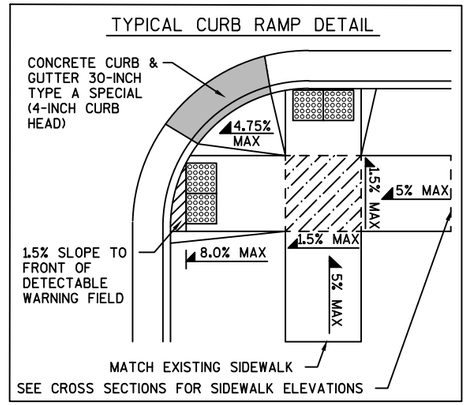
STA. 56+75.45, 27.50' RT
HYDRANT (TYP.)
CONCRETE CURB & GUTTER 30-INCH TYPE A
STA. 56+75.44, 24.89' RT
2'x2' CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA (TYP.)
STA. 56+80.45, 26.36' RT
3'
STA. 56+50
-1.0%
5'
4.6%
5'
4.3%
STA. 56+90.11, 33.59' RT
STA. 56+93.23, 38.59' RT
33.1' RT
4.6%
5'
3.3%
STA. 56+80.45, 28.73' RT
STA. 56+74.27, 43.50' RT
11.0' RAD.
STA. 56+86.85, 33.61' RT
STA. 56+89.50, 38.60' RT
5'
9'
29TH STREET

WATER VALVE (TYP.)
STORM SEWER INLET COVER TYPE H (TYP.)
CONCRETE CURB & GUTTER 30-INCH TYPE A
STA. 57+39.13, 23.52' RT
10.0' RAD.
STA. 57+39.15, 33.52' RT
STA. 57+38.06, 33.52' RT
STA. 57+34.90, 38.53' RT
CONCRETE SIDEWALK 4-INCH
3'
STA. 57+49.36, 28.98' RT
2.0%
STA. 57+75
-0.5%
5'
12.7%
5'
CONCRETE CURB PEDESTRIAN
STA. 57+54.59, 37.50' RT
5.0' RAD.
CONCRETE CURB PEDESTRIAN
2.9%
STA. 57+45.02, 38.93' RT
1.5' RAD.
STA. 57+39.52, 38.51' RT
STA. 57+43.54, 43.62' RT
5% MAX

LEONARD & YVONNE HENRICKSON
2819 LINCOLN AVENUE

DAIRY QUEEN
JALO INC.
2901 LINCOLN AVENUE

TYPICAL CURB RAMP DETAIL



NOTES:

1. ADJUST SLOPES TO ACCOMMODATE FIELD CONDITIONS.
2. THE EXACT LOCATION OF THE COLORED CONCRETE CROSSWALKS MAY NEED TO BE ADJUSTED IN THE FIELD TO ALIGN WITH INSTALLED LOCATION OF DETECTABLE WARNING FIELDS.

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CURB RAMP DETAILS: 29TH STREET	SHEET 41	E

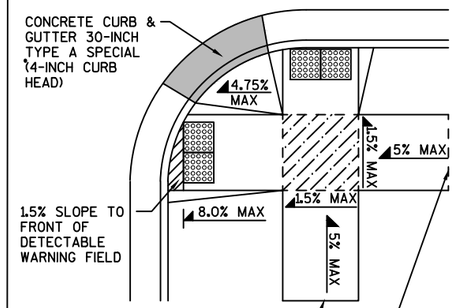
NOTES:

1. ADJUST SLOPES TO ACCOMMODATE FIELD CONDITIONS.
2. THE EXACT LOCATION OF THE COLORED CONCRETE CROSSWALKS MAY NEED TO BE ADJUSTED IN THE FIELD TO ALIGN WITH INSTALLED LOCATION OF DETECTABLE WARNING FIELDS.

STA. 58+14.40, 54.34' LT
15.0' RAD.
5'
STA. 58+30.68, 41.44' LT
STA. 58+35.47, 41.45' LT
STA. 58+29.92, 36.44' LT
6.9%
5'
2.3%
STA. 58+19.53, 35.50' LT
3.0' RAD.
HOLLY'S HAIR SALON
SCOTTY & HOLLY ANDERSON
2910 LINCOLN AVENUE
CONCRETE SIDEWALK
5'
3'
STA. 58+00
-1.7%
5.0%
2.0%
A
A
STA. 58+33.20, 36.45' LT
STA. 58+29.92, 34.44' LT
2.0' RAD.
CONCRETE SIDEWALK 4-INCH
CONCRETE CURB PEDESTRIAN
STA. 58+12.74, 27.50' LT
CONCRETE CURB & GUTTER 30-INCH TYPE A
PULL BOXES STEEL 24x42-INCH

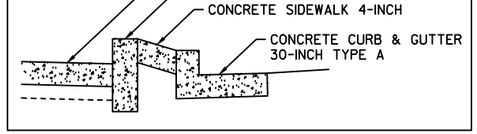
WATER VALVE (TYP.)
30TH STREET
6'
36.0' LT
STA. 58+70.81, 41.51' LT
STA. 58+73.38, 35.90' LT
STA. 58+76.14, 36.52' LT
CONCRETE SIDEWALK
STA. 58+73.46, 41.52' LT
5'
3.9%
5'
4.5%
STA. 58+93.44, 49.50' LT
17.0' RAD.
RAYMOND & LISA MIKEAL
1002 30TH STREET
POLYMER CONCRETE PULL BOX
STA. 58+86.64, 28.58' LT
STA. 58+91.65, 27.50' LT
5'
4.5%
STA. 59+00
-3.9%
POLES TYPE 5-ALUMINUM
22'9
5'
3'
STA. 58+86.68, 25.50' LT
STA. 58+91.69, 24.57' LT
CONCRETE CURB & GUTTER 30-INCH TYPE A

TYPICAL CURB RAMP DETAIL



SEE CROSS SECTIONS FOR SIDEWALK ELEVATIONS

SECTION A-A



COLORING CONCRETE CUSTOM (TYP.)
59+00
STA. 58+86.5
MANHOLE COVER (TYP.)
LINCOLN AVENUE (STH 42)
6'
STA. 58+87.28, 18.50' RT
2'x2' CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA (TYP.)
STA. 58+92.28, 18.50' RT
STORM SEWER INLET COVER TYPE H (TYP.)
CONCRETE SIDEWALK 4-INCH
SIGN (TYP.)
CONCRETE CURB & GUTTER 30-INCH TYPE A
CONCRETE DRIVEWAY 6-INCH
CONCRETE SIDEWALK 6-INCH
3'
5'
4.7%
5'
4.7%
CONCRETE DRIVEWAY 6-INCH
9'
STA. 58+75
-0.5%
STA. 59+00
-2.3%
CONCRETE SIDEWALK 6-INCH
5'
CONCRETE CURB & PEDESTRIAN
DAIRY QUEEN
JALO INC.
2901 LINCOLN AVENUE
STA. 58+87.40, 27.50' RT
STA. 58+92.40, 27.50' RT
EXISTING CHAIN LINK FENCE TO REMAIN
COOL CITY MOTEL
MARY BETH LECLAIR
3009 LINCOLN AVENUE

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CURB RAMP DETAILS: 30TH STREET	SHEET 42	E

NOTES:

1. ADJUST SLOPES TO ACCOMMODATE FIELD CONDITIONS.
2. THE EXACT LOCATION OF THE COLORED CONCRETE CROSSWALKS MAY NEED TO BE ADJUSTED IN THE FIELD TO ALIGN WITH INSTALLED LOCATION OF DETECTABLE WARNING FIELDS.

N

CONCRETE SIDEWALK

LARRY & JOANNE RAATZ
3020 LINCOLN AVENUE

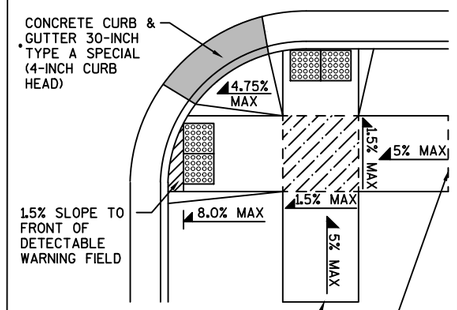
31ST STREET

CONCRETE SIDEWALK

PEKARSKIE PROPERTIES, LLC

STA. 61+84.51, 40.28' LT
STA. 61+83.74, 35.27' LT
STA. 61+71.50, 40.50' LT
8.0' RAD.
STA. 61+78.81, 29.76' LT
STA. 61+50
1.1%
STA. 61+89.75, 40.35' LT
WATER VALVE (TYP.)
STA. 61+88.66, 35.34' LT
STA. 62+28.13, 40.87' LT
STA. 62+30.54, 35.91' LT
STA. 62+31.62, 40.92' LT
STA. 62+34.18, 35.96' LT
STA. 62+50.51, 47.50' LT
15.0' RAD.
STA. 62+41.53, 29.63' LT
STA. 62+46.56, 27.89' LT
POLES TYPE 5-ALUMINUM
STA. 62+75
-3.6%
5.4%
4.6%
0.8%
4.7%
3.3%
4.7%
10.2%
5'
9'
6'
3'
35.1' LT
SIGN (TYP.)
TREE (TYP.)
STA. 61+83.85, 26.89' LT
2'x2' CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA (TYP.)
STA. 61+78.91, 22.57' LT
STA. 62+41.58, 26.49' LT
STA. 62+46.60, 24.94' LT
CONCRETE CURB & GUTTER 30-INCH TYPE A
CONCRETE CURB & GUTTER 30-INCH TYPE A

TYPICAL CURB RAMP DETAIL



SEE CROSS SECTIONS FOR SIDEWALK ELEVATIONS

COLORING CONCRETE CUSTOM (TYP.)

62+00

STA. 61+78.7
STA. 62+41.4
MANHOLE COVER (TYP.)

LINCOLN AVENUE (STH 42)

6'

STA. 61+79.47, 18.50' RT
STA. 61+84.47, 18.50' RT
STA. 62+42.19, 18.50' RT
STA. 62+47.19, 18.50' RT
STORM SEWER INLET COVER TYPE H (TYP.)

CONCRETE DRIVEWAY 6-INCH
CONCRETE SIDEWALK 6-INCH

STA. 62+42.31, 27.50' RT
HYDRANT
4.5%
4.0%
4.6%
4.0%
STA. 61+75
-1.5%
STA. 62+00
-3.8%
STA. 62+35
-1.4%
STA. 62+60
-3.0%
EL. 607.61
EL. 607.95
STA. 61+79.59, 27.50' RT
STA. 61+84.60, 27.50' RT
STA. 62+47.31, 27.50' RT
CONCRETE CURB PEDESTRIAN

ROBERT LANPOINT III
3109 LINCOLN AVENUE

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CURB RAMP DETAILS: 31ST STREET	SHEET 43 E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\CURB RAMP DETAILS.DWG
WIS 42 LINCOLN - CURB RAMP DETAILS - 31ST

PLOT DATE : 9/12/2016 10:14 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 42

NOTES:

1. ADJUST SLOPES TO ACCOMMODATE FIELD CONDITIONS.
2. THE EXACT LOCATION OF THE COLORED CONCRETE CROSSWALKS MAY NEED TO BE ADJUSTED IN THE FIELD TO ALIGN WITH INSTALLED LOCATION OF DETECTABLE WARNING FIELDS.

N

33RD STREET

CONCRETE SIDEWALK

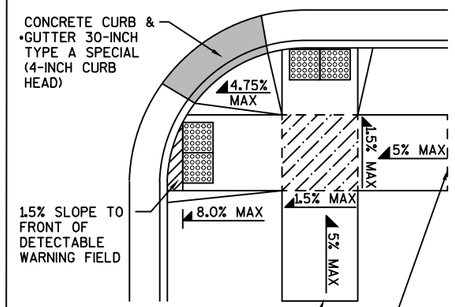
DONNA WALOTKIEWICZ
3222 LINCOLN AVENUE

JOHN TORRISON

KRAJNIK CHEVROLET
3303 LINCOLN AVENUE

STA. 69+03.99, 40.18' LT
STA. 69+01.75, 35.15' LT
STA. 68+87.55, 44.50' LT
12.0' RAD.
STA. 68+98.46, 31.46' LT
STA. 68+93.41, 28.55' LT
STA. 68+75
0.5%
STA. 69+07.92, 40.23' LT
STA. 69+06.04, 35.21' LT
STA. 68+98.54, 25.50' LT
STA. 68+93.50, 22.06' LT
SIGN (TYP.)
CONCRETE CURB & GUTTER 30-INCH TYPE A
2'x2' CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA (TYP.)
8.0%
4.7%
3.6%
4.6%
5'
9'
WATER VALVE (TYP.)
STA. 69+53.43, 40.85' LT
STA. 69+56.37, 35.89' LT
STA. 69+73.66, 49.50' LT
17.0' RAD.
STA. 69+61.27, 31.32' LT
STA. 69+66.30, 28.76' LT
STA. 69+48.99, 40.79' LT
STA. 69+53.01, 34.75' LT
STA. 69+61.31, 28.06' LT
STA. 69+66.34, 25.91' LT
35.0' LT
4.4%
4.7%
STA. 70+00
-0.8%
3'
CONCRETE CURB & GUTTER 30-INCH TYPE A
COLORING CONCRETE CUSTOM (TYP.)

TYPICAL CURB RAMP DETAIL



69+00
70+00
STA. 68+93.4
STA. 69+61.2
MANHOLE COVER (TYP.)
6'
LINCOLN AVENUE (STH 42)

STA. 68+94.14, 18.50' RT
STA. 68+99.14, 18.50' RT
STA. 68+94.26, 27.50' RT
HYDRANT
CONCRETE DRIVEWAY 6-INCH HES
CONCRETE SIDEWALK 6-INCH HES
STA. 68+84
-2.1%
STA. 69+10
-2.9%
EL. 612.80
EL. 612.92
STA. 68+99.26, 27.50' RT
POLES TYPE 5-ALUMINUM
STA. 69+50
-2.5%
STA. 69+75
-2.8%
STA. 69+62.07, 27.50' RT
STA. 69+67.07, 27.50' RT
STA. 69+61.94, 18.50' RT
STA. 69+66.94, 18.50' RT
STORM SEWER INLET COVER TYPE H (TYP.)
CONCRETE DRIVEWAY 6-INCH
CONCRETE SIDEWALK 6-INCH

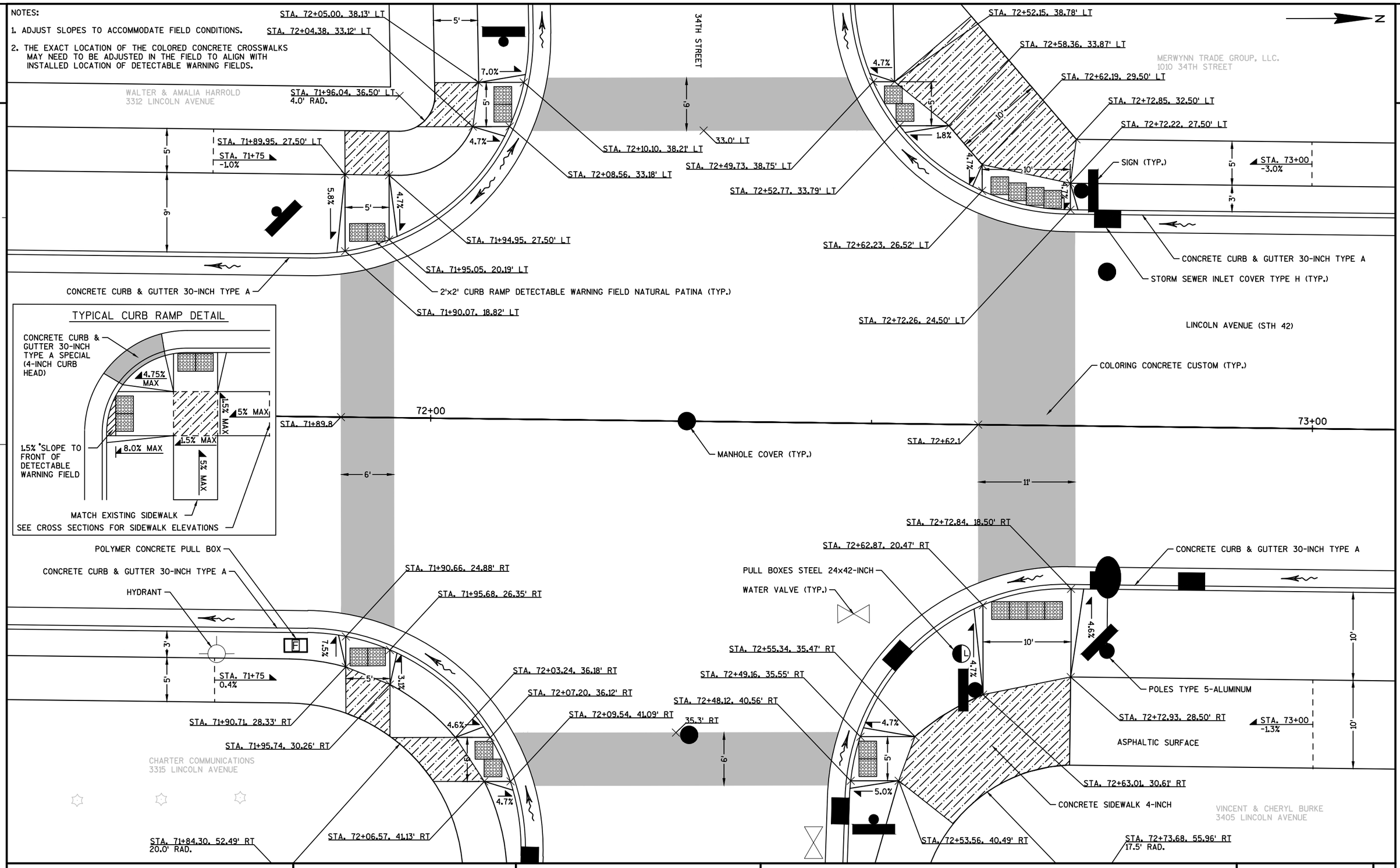
PROJECT NO:1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CURB RAMP DETAILS: 33RD STREET	SHEET 44	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\CURB RAMP DETAILS.DWG
WIS 42 LINCOLN - CURB RAMP DETAILS - 33RD
PLOT DATE : 9/12/2016 10:15 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 42

NOTES:

1. ADJUST SLOPES TO ACCOMMODATE FIELD CONDITIONS.
2. THE EXACT LOCATION OF THE COLORED CONCRETE CROSSWALKS MAY NEED TO BE ADJUSTED IN THE FIELD TO ALIGN WITH INSTALLED LOCATION OF DETECTABLE WARNING FIELDS.



PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CURB RAMP DETAILS: 34TH STREET	SHEET 45	E

NOTES:

1. ADJUST SLOPES TO ACCOMMODATE FIELD CONDITIONS.
2. THE EXACT LOCATION OF THE COLORED CONCRETE CROSSWALKS MAY NEED TO BE ADJUSTED IN THE FIELD TO ALIGN WITH INSTALLED LOCATION OF DETECTABLE WARNING FIELDS.

N

MERWYNN TRADE GROUP, LLC.

35TH STREET

STA. 75+01.28, 32.50' LT
STA. 75+01.28, 27.50' LT
3.9%
COLORING CONCRETE CUSTOM
STA. 76+75
-2.8%
5'
9'
4.7%
STA. 75+10.30, 32.50' LT
26.9' LT
STA. 75+07.14, 27.50' LT
TREE (TYP.)
CONCRETE CURB & GUTTER 30-INCH TYPE A

2'x2' CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA (TYP.)
STA. 75+61.08, 32.50' LT
STA. 75+61.08, 27.50' LT
7.1%
STA. 75+52.05, 32.50' LT
STA. 75+55.21, 27.50' LT
4.7%
SIGN (TYP.)
STA. 76+00
-2.2%
5'
9'
CONCRETE CURB & GUTTER 30-INCH TYPE A

LARIS VALDRE
1448 TERRACE COURT

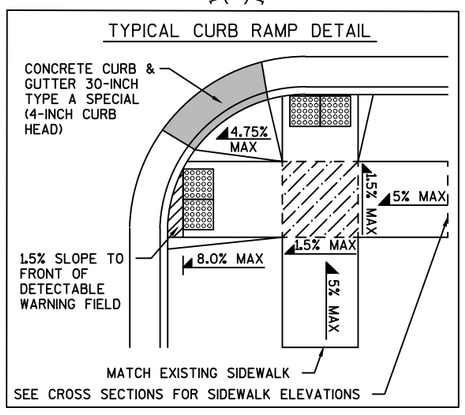
75+00
76+00
MANHOLE COVER (TYP.)

LINCOLN AVENUE (STH 42)

CONCRETE CURB & GUTTER 30-INCH TYPE A
STORM SEWER INLET COVER TYPE H (TYP.)
10'
WATER VALVE (TYP.)
HYDRANT
CONCRETE DRIVEWAY 6-INCH
POLES TYPE 5-ALUMINUM
10'
ASPHALTIC SURFACE

STORAGE UNITS
BRUCE MOFFATT
3501 LINCOLN AVENUE

TYPICAL CURB RAMP DETAIL



PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CURB RAMP DETAILS: 35TH STREET	SHEET 46	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\CURB RAMP DETAILS.DWG
WIS 42 LINCOLN - CURB RAMP DETAILS - 35TH

PLOT DATE : 9/12/2016 10:15 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 42

NOTES:

1. ADJUST SLOPES TO ACCOMMODATE FIELD CONDITIONS.

2. THE EXACT LOCATION OF THE COLORED CONCRETE CROSSWALKS MAY NEED TO BE ADJUSTED IN THE FIELD TO ALIGN WITH INSTALLED LOCATION OF DETECTABLE WARNING FIELDS.

N

TIMOTHY LOHR
1005 35TH PLACE

STREU CONSTRUCTION COMPANY
3612 LINCOLN AVENUE

35TH PLACE

STA. 78+73.39, 32.50' LT
STA. 78+64.35, 32.50' LT
STA. 78+64.35, 27.50' LT
6.0%
STA. 78+50
-0.8%
4.7%
SIGN (TYP.)
5'
9'
STA. 78+70.22, 27.50' LT
CONCRETE CURB & GUTTER 30-INCH TYPE A
COLORING CONCRETE CUSTOM (TYP.)
6'
27.2' LT
STA. 79+14.69, 32.81' LT
STA. 79+17.41, 27.82' LT
STA. 79+25.34, 21.00' LT
STA. 79+35.36, 18.50' LT
CONCRETE CURB & GUTTER 30-INCH TYPE A
STA. 79+25.24, 32.88' LT
STA. 79+25.27, 27.91' LT
CONCRETE SIDEWALK 4-INCH
STA. 79+35.22, 33.00' LT
5.8%
5'
STA. 79+35.27, 28.06' LT
2'x2' CURB RAMP DETECTABLE WARNING FIELD
NATURAL PATINA (TYP.)
4.2%
2.4%
10'
4.3%

79+00
MANHOLE COVER (TYP.)
STA. 79+25.0
11'
STA. 79+35.69, 18.50' RT
CONCRETE SIDEWALK 4-INCH
STA. 79+25.69, 18.50' RT
LINCOLN AVENUE (STH 42)
CONCRETE CURB & GUTTER 30-INCH TYPE A
POLYMER CONCRETE PULL BOX
10'
4.7%
10'
4.7%
STORM SEWER INLET COVER TYPE H (TYP.)
WATER VALVE (TYP.)
TREE (TYP.)
10'
10'
ASPHALTIC SURFACE
POLES TYPE 5-ALUMINUM
STA. 79+25.78, 28.50' RT
STA. 79+10
-2.0%
1.5% MAX.
1.5% MAX.
STA. 79+50
-2.5%
EL. 619.86
STA. 79+35.78, 28.50' RT

BRUCE MOFFATT
3601 LINCOLN AVENUE

TYPICAL CURB RAMP DETAIL

CONCRETE CURB & GUTTER 30-INCH TYPE A SPECIAL (4-INCH CURB HEAD)
4.75% MAX
1.5% MAX
5% MAX
1.5% MAX
1.5% SLOPE TO FRONT OF DETECTABLE WARNING FIELD
8.0% MAX
1.5% MAX
5% MAX
MATCH EXISTING SIDEWALK
SEE CROSS SECTIONS FOR SIDEWALK ELEVATIONS

PROJECT NO:1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CURB RAMP DETAILS: 35TH PLACE	SHEET 47	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\CURB RAMP DETAILS.DWG
WIS 42 LINCOLN - CURB RAMP DETAILS - 35TH PLACE

PLOT DATE : 9/12/2016 10:15 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:10_XREF

WISDOT/CADDS SHEET 42

2

INSTALL INLET PROTECTION TYPE D IN EXISTING INLETS ON THE EAST SIDE OF THE JACKSON STREET INTERSECTION

N

22ND STREET (STH 42)

23RD STREET

1560010162
THE FOUR SEAS BUILDING PARTNERSHIP LLP
1010 22ND ST.

1560052009
GLADYS BEAUDIN
2304 LINCOLN AVENUE

1560050216
ARTHUR ALLIE
2314 LINCOLN AVENUE

50'

TRACKING PAD

33+00 34+00 35+00 36+00 37+00 38+00

MATCHLINE STA. 38+50

LINCOLN AVENUE (STH 42)

1470011306
PATSY'S HWY 42 MOBILE MART, LLC
816 22ND ST

CANOPY

1470010609
NEW BANCSHARES, INC.
2221 LINCOLN AVENUE

1470021205
EDWARD BARUTH
828 23RD ST.

1470021107
GEORGE & EDITH FRASCH
2305 LINCOLN AVENUE

1470021009
ROSE LECLAIR
2311 LINCOLN AVENUE

1470020901
DAVID LEE BIELY
2315 LINCOLN AVENUE

LEGEND

- INLET PROTECTION
- INLET PROTECTION FOR EXISTING INLET (TYPE)
- INLET PROTECTION FOR PROPOSED INLET (TYPE)
- SOD LAWN
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- CULVERT PIPE CHECKS
- TUBULAR SEDIMENT CONTROL (SILT SOCK)
- SLOPE INTERCEPTS

NOTE: DISTURBED AREAS BEHIND THE SIDEWALK SHALL BE RESTORED WITH 6-INCHES OF TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B AND MULCH.

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	EROSION CONTROL	SHEET 48	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\EROSION CONTROL.DWG
WIS 42 LINCOLN - EROSION CONTROL - EC_01
PLOT DATE : 7/26/2016 1:22 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF

INSTALL INLET PROTECTION TYPE D IN EXISTING INLETS ON THE EAST SIDE OF THE JACKSON STREET INTERSECTION

INSTALL INLET PROTECTION TYPE D IN EXISTING INLET ON THE NORTHEAST CORNER OF THE JACKSON STREET INTERSECTION AND THE FIRST INLET STRUCTURE WEST OF THE PROJECT LIMITS

N

24TH STREET

25TH STREET

1560050118
LEONARD & SYLVIA
LESPERANCE
2320 LINCOLN AVENUE

1560062016
WILLIAM & CYNTHIA
SCHWERMA
1000 24TH ST.

1560061927
SHANE & KAY FRISCH
2404 LINCOLN AVENUE

1560061918
NORBERT & DIANE
VOHWINKEL
2410 LINCOLN AVENUE

1560060223
SENG-YANG & MAO MOUA
2412 LINCOLN AVENUE

1560060214
GENIE VARNEY
2418 LINCOLN AVENUE

1560060125
SUSAN DEKOK
2420 LINCOLN AVENUE

1380012029
CONRAD & ELAINE
SWIGGUM
1002 25TH ST.

1380012010
DORIS EURICH
2504 LINCOLN AVENUE

MATCHLINE STA. 38+50

39+00 40+00 41+00 42+00 43+00 44+00

MATCHLINE STA. 44+50

LINCOLN AVENUE (STH 42)

1470020705
NANCY KAKES
2321 LINCOLN AVENUE

1470031007
CANDICE WEBERSKI
2403 LINCOLN AVENUE

1470030909
PATRICK & NATHLEEN
BAGNALL
2407 LINCOLN AVENUE

1470030801
NELDA DAUGHERTY
2409 LINCOLN AVENUE

1470030703
JOHN EDWARD RUETHER
2413 LINCOLN AVENUE

1470030605
AARON & KRISTEN
SCHULTZ
827 25TH ST.

1470041005
CLYDE & ELLEN
SAHN
828 25TH ST.

NOTE: DISTURBED AREAS BEHIND THE SIDEWALK SHALL BE RESTORED WITH 6-INCHES OF TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B AND MULCH.

LEGEND

- INLET PROTECTION
- INLET PROTECTION FOR EXISTING INLET (TYPE)
- INLET PROTECTION FOR PROPOSED INLET (TYPE)
- SOD LAWN
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- CULVERT PIPE CHECKS
- TUBULAR SEDIMENT CONTROL (SILT SOCK)
- SLOPE INTERCEPTS

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	EROSION CONTROL	SHEET 49	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\EROSION CONTROL.DWG
WIS 42 LINCOLN - EROSION CONTROL - EC_02

PLOT DATE : 7/26/2016 1:22 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

INSTALL INLET PROTECTION TYPE D IN EXISTING INLETS ON THE EAST SIDE OF THE JACKSON STREET INTERSECTION

INSTALL INLET PROTECTION TYPE D IN EXISTING INLETS ON THE EAST SIDE OF THE JACKSON STREET INTERSECTION

N

26TH STREET

27TH STREET

1380011921
MARY GRAMS
2510 LINCOLN AVENUE

1380010316
LINDA DAMROW
2514 LINCOLN AVENUE

1380010129
TINA CHRISTMAN
2422 LINCOLN AVENUE

1380061920
DAVID & WENDY ZUNKER
2602 LINCOLN AVENUE

1380062019
BLAINE WALESH
2608 LINCOLN AVENUE

1380060100
GERALD & KENNETH MESSMAN
2618 LINCOLN AVENUE

MATCHLINE STA. 44+50

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

MATCHLINE STA. 50+50

LINCOLN AVENUE (STH 42)

1470040809
DANIEL & JODI MILLER
2509 LINCOLN AVENUE

1470040701
JEROME & MICHELLE LEGREVE
2513 LINCOLN AVENUE

1470040603
JANET PARMA & DAVID STODOLA
2517 LINCOLN AVENUE

1470050904
PATRICIA PIETROSKE
2607 LINCOLN AVENUE

1470050806
JEAN ZAHORIK
2611 LINCOLN AVENUE

1470050708
ELIZABETH BLAZER
2615 LINCOLN AVENUE

1470050600
DONALD & KATHRYN KUBEC
2617 LINCOLN AVENUE

NOTE: DISTURBED AREAS BEHIND THE SIDEWALK SHALL BE RESTORED WITH 6-INCHES OF TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B AND MULCH.

LEGEND

- INLET PROTECTION
- INLET PROTECTION FOR EXISTING INLET (TYPE)
- INLET PROTECTION FOR PROPOSED INLET (TYPE)
- SOD LAWN
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- CULVERT PIPE CHECKS
- TUBULAR SEDIMENT CONTROL (SILT SOCK)
- SLOPE INTERCEPTS

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	EROSION CONTROL	SHEET 50	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\EROSION CONTROL.DWG
WIS 42 LINCOLN - EROSION CONTROL - EC_03

PLOT DATE : 7/26/2016 1:22 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

INSTALL INLET PROTECTION TYPE D IN EXISTING INLETS ON THE EAST SIDE OF THE JACKSON STREET INTERSECTION

INSTALL INLET PROTECTION TYPE D IN EXISTING INLETS ON THE EAST SIDE OF THE JACKSON STREET INTERSECTION

N

27TH STREET

28TH STREET

WALLS

RUINS

1380072017
EUGENE KAPLA
2704 LINCOLN AVENUE

1380070116
CLEM BECKER, INC.
2720 LINCOLN AVENUE

1380122008
CLEM BECKER, INC.
2806 LINCOLN AVENUE

138012
JOHN
GAIL
2822

MATCHLINE STA. 50+50

51+00 52+00 53+00 54+00 55+00 56+00

MATCHLINE STA. 56+50

LINCOLN AVENUE (STH 42)

1470061000
STEVEN KAKES
828 27TH ST.

1470060902
RONALD & PATRICIA LUTZ
2711 LINCOLN AVENUE

1470060804
RONALD & PATRICIA LUTZ
2711 LINCOLN AVENUE

1470060706
ERVIN KRIZEK
2713 LINCOLN AVENUE

1470060608
PAUL & PAULETTE SIMONAR
825 28TH ST.

1470071008
PAUL & PAULETTE SIMONAR
828 28TH ST.

1470070893
THOMAS TERP
2809 LINCOLN AVENUE

1470070679
LEONARD & YVONNE HENRICKSON
2819 LINCOLN AVENUE

NOTE: DISTURBED AREAS BEHIND THE SIDEWALK SHALL BE RESTORED WITH 6-INCHES OF TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B AND MULCH.

LEGEND

- INLET PROTECTION
- INLET PROTECTION FOR EXISTING INLET (TYPE)
- INLET PROTECTION FOR PROPOSED INLET (TYPE)
- SOD LAWN
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- CULVERT PIPE CHECKS
- TUBULAR SEDIMENT CONTROL (SILT SOCK)
- SLOPE INTERCEPTS

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	EROSION CONTROL	SHEET 51	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\EROSION CONTROL.DWG
WIS 42 LINCOLN - EROSION CONTROL - EC_04

PLOT DATE : 7/26/2016 1:22 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

INSTALL INLET PROTECTION TYPE D IN EXISTING INLETS ON THE EAST SIDE OF THE JACKSON STREET INTERSECTION

INSTALL INLET PROTECTION TYPE D IN EXISTING INLETS ON THE EAST SIDE OF THE JACKSON STREET INTERSECTION

N

2

2

30TH STREET

31ST STREET

1380130124
HOLLY'S HAIR SALON
SCOTT & HOLLY ANDERSON
2910 LINCOLN AVENUE

1622032002
RAYMOND & LISA
MIKEAL
1002 30TH ST.

1622030219
STEVEN KUBEC
3014 LINCOLN AVENUE

1622030120
LARRY & JOANNE
RAATZ
3020 LINCOLN AVENUE

MATCHLINE STA. 56+50

57+00 58+00 59+00 60+00 61+00 62+00

MATCHLINE STA. 62+50

LINCOLN AVENUE (STH 42)

29TH STREET

1470080616
DAIRY QUEEN
JALO INC.
2901 LINCOLN AVENUE

1470110065
COOL CITY MOTEL
MARY BETH LECLAIR
3009 LINCOLN AVENUE

NOTE: DISTURBED AREAS BEHIND THE SIDEWALK SHALL BE RESTORED WITH 6-INCHES OF TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B AND MULCH.

LEGEND

- INLET PROTECTION
- INLET PROTECTION FOR EXISTING INLET (TYPE)
- INLET PROTECTION FOR PROPOSED INLET (TYPE)
- SOD LAWN
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- CULVERT PIPE CHECKS
- TUBULAR SEDIMENT CONTROL (SILT SOCK)
- SLOPE INTERCEPTS

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	EROSION CONTROL	SHEET 52 E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\EROSION CONTROL.DWG
WIS 42 LINCOLN - EROSION CONTROL - EC_05

PLOT DATE : 7/26/2016 1:22 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

N

2011980
ARSKE PROPERTIES, LLC

1622011891
PEKARSKE PROPERTIES, LLC
3108 LINCOLN AVENUE

1622010118
PEKARSKE PROPERTIES, LLC
3116 LINCOLN AVENUE

1623010749
THE LIGHTHOUSE ASSEMBLY
OF GOD CHURCH, INC.
3204 LINCOLN AVENUE

1623010239
DONNA WALOTKIEWICZ
3222 LINCOLN AVENUE

ASPH

LANDSCAPE STEP

CONC

MATCHLINE STA. 62+50

63+00

64+00

65+00

66+00

67+00

68+00

MATCHLINE STA. 68+50

LINCOLN AVENUE (STH 42)

SIGN

2312030001
ROBERT LAPOINT III
3109 LINCOLN AVENUE

2312030305
GTE TELEPHONE
3203 LINCOLN AVENUE

NOTE: DISTURBED AREAS BEHIND THE SIDEWALK SHALL BE RESTORED WITH 6-INCHES OF TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B AND MULCH.

LEGEND

- INLET PROTECTION
- INLET PROTECTION FOR EXISTING INLET (TYPE)
- INLET PROTECTION FOR PROPOSED INLET (TYPE)
- SOD LAWN
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- CULVERT PIPE CHECKS
- TUBULAR SEDIMENT CONTROL (SILT SOCK)
- SLOPE INTERCEPTS

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	EROSION CONTROL	SHEET 53	E

INSTALL INLET PROTECTION TYPE D IN EXISTING INLETS ON THE EAST SIDE OF THE JACKSON STREET INTERSECTION

INSTALL INLET PROTECTION TYPE D IN EXISTING INLETS ON THE EAST SIDE OF THE JACKSON STREET INTERSECTION

N

33RD STREET

34TH STREET

1623010131
DONNA WALOTKIEWICZ
3222 LINCOLN AVENUE

1624082007
JOHN TORRISON

1624080116
WALTER & AMALIA HARROLD
3312 LINCOLN AVENUE

1624012002
MERWYNN TRADE GROUP, LLC.
1010 34TH ST.

1624010120
MERWYNN TRADE GROUP, LI

MATCHLINE STA. 68+50

MATCHLINE STA. 74+50

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

LINCOLN AVENUE (STH 42)

2312030109
KRAJNIK CHEVROLET
3303 LINCOLN AVENUE

2312030403
CHARTER COMMUNICATIONS
3315 LINCOLN AVENUE

3130010108
VINCENT & CHERYL
BURKE
3405 LINCOLN AVENUE

TOWER

NOTE: DISTURBED AREAS BEHIND THE SIDEWALK SHALL BE RESTORED WITH 6-INCHES OF TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B AND MULCH.

LEGEND

- INLET PROTECTION
- INLET PROTECTION FOR EXISTING INLET (TYPE)
- INLET PROTECTION FOR PROPOSED INLET (TYPE)
- SOD LAWN
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- CULVERT PIPE CHECKS
- TUBULAR SEDIMENT CONTROL (SILT SOCK)
- SLOPE INTERCEPTS

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	EROSION CONTROL	SHEET 54 E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\EROSION CONTROL.DWG
WIS 42 LINCOLN - EROSION CONTROL - EC_07

PLOT DATE : 7/26/2016 1:22 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

2

N

3090010603
LARIS VALDRE
1448 TERRACE COURT

3090010505
TIMOTHY LOHR
1005 35TH PLACE

2361010011
STREU CONSTRUCTION COMP.
3612 LINCOLN AVENUE

35TH STREET

35TH PLACE

MATCHLINE STA. 74+50

75+00 76+00 77+00 78+00 79+00 80+00

LINCOLN AVENUE (STH 42)

TRACKING PAD

50'

2312020557
BRUCE MOFFATT
STORAGE UNITS
3501 LINCOLN AVENUE

2312020209
TWO RIVERS BUSES INC.
3515 LINCOLN AVENUE

2312020405
BRUCE MOFFATT
3601 LINCOLN AVENUE

NOTE: DISTURBED AREAS BEHIND THE SIDEWALK SHALL BE RESTORED WITH 6-INCHES OF TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B AND MULCH.

LEGEND

- INLET PROTECTION
- INLET PROTECTION FOR EXISTING INLET (TYPE)
- INLET PROTECTION FOR PROPOSED INLET (TYPE)
- SOD LAWN
- EROSION MAT URBAN CLASS I TYPE A
- SILT FENCE
- CULVERT PIPE CHECKS
- TUBULAR SEDIMENT CONTROL (SILT SOCK)
- SLOPE INTERCEPTS

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	EROSION CONTROL	SHEET 55	E

BENCHMARKS				
NO.	STATION	LOCATION	DESCRIPTION	ELEV.
701	36+26.7	47.4' RT.	TOP OF HYDRANT PUMPER NOZZLE	590.26

22ND STREET (STH 42)

BP: 32+44.07

LINCOLN AVENUE (STH 42)

CONCRETE COLLARS FOR PIPE

1.0 MANHOLES 4-J
STA = 33+50.00 @ 8.50' LT

INLETS 2X3-H 2.1
STA = 34+92.00 @ 23.50' LT

MANHOLES 4X4-J 2.0
STA = 34+92.00 @ 5.50' LT

PETROLEUM-CONTAMINATED SOIL AND GROUNDWATER

EXISTING MANHOLE TO REMAIN, ADJUSTING MANHOLE COVERS EX.1
STA = 34+62.31 @ 29.55' RT

INLETS 2X3-H 2.2
STA = 34+92.00 @ 23.50' RT

RECONNECT EXISTING 24" STORM SEWER

MANHOLES 5X5-J 9.0
STA = 34+92.00 @ 30.00' RT

INLETS 2X3-H 2.3
STA = 35+02.00 @ 23.50' RT

RECONNECT EXISTING 18" STORM SEWER

RECONNECT EXISTING 24" STORM SEWER

MANHOLES 6X6-J 4.0
STA = 35+84.20 @ 58.20' LT

INLETS 2X3-H 4.1
STA = 35+89.32 @ 50.65' LT

REMOVING MANHOLES

MANHOLES 6X6-J 3.0
STA = 35+84.50 @ 5.50' LT

REMOVING INLETS

(18-INCH)

(24-INCH)

(12-INCH)

(15-INCH)

MANHOLES 5X5-J 5.0
STA = 35+85.00 @ 30.00' RT

INLETS 2X3-H 8.1
STA = 35+86.13 @ 45.40' RT

INLETS 2X3-DRIVEWAY SPECIAL 8.3
STA = 35+86.40 @ 55.40' RT

23RD STREET

6.0 MANHOLES 6X6-J
STA = 35+95.50 @ 58.20' LT

7.0 MANHOLES 6X6-J
STA = 35+95.75 @ 23.50' LT

6.1 INLETS 2X3-H
STA = 36+18.33 @ 48.90' LT

STORM SEWER LATERAL 4-INCH

MANHOLES 4X4-H 10.0
STA = 37+52.00 @ 23.50' LT

REMOVING INLETS

REMOVING MANHOLES

F.C.O.

BM*701

8.2 INLETS 2X3-H
STA = 36+21.37 @ 49.23' RT

8.0 MANHOLES 6X6-J
STA = 35+96.30 @ 45.40' RT

CONCRETE COLLARS FOR PIPE

MINI STORM SEWER 6-INCH

MINI STORM SEWER LATERAL 4-INCH (TYP.)

10.1 INLETS 2X3-H
STA = 37+54.00 @ 17.50' RT

INLETS 2X3-H 10.2
STA = 38+01.00 @ 22.34' RT

MATCHLINE STA. 38+50

CAUTION

33+00 34+00 35+00 36+00 37+00 38+00

N

1560050216 ARTHUR ALLIE 2314 LINCOLN AVENUE

1560050 SANDRA 2318 LIN

1560052009 LOUIS BEAUDIN 2310 LINCOLN AVENUE

1470011306 PATSY'S HWY 42 MART, LLC 816 22ND ST

1470010609 NEW BANCSHARES, INC.

1470021107 GEORGE & EDITH FRASCH 2305 LINCOLN AVENUE

1470021009 ROSE LECLAIR 2311 LINCOLN AVENUE

1470020901 DAVID LEE BIELY 2315 LINCOLN AVENUE

1470 LORRAI 2319 LI

PARTNERSHIP LLP 1010 22ND ST.

LEGEND

XXXXX XXXXX REMOVING STORM SEWER (SIZE)

590.00
580.00
578.00

1.0 Rim = 588.28 (NO ADJUSTMENT RINGS)

2.0 Rim = 587.69 (CONSIDER CAST-IN-PLACE) (NO ADJUSTMENT RINGS)

3.0 Rim = 588.13 (CONSIDER CAST-IN-PLACE) (2"-4" ADJUSTMENT RINGS)

7.0 Rim = 587.77 (CONSIDER CAST-IN-PLACE) (NO ADJUSTMENT RINGS)

10.0 Rim = 587.66 (CONSIDER CAST-IN-PLACE) (NO ADJUSTMENT RINGS)

FINISHED ℄ PROFILE

CONCRETE COLLARS FOR PIPE

11 L.F.-SSPRC Class III 18-Inch @ 0.22%
Inv. = 584.72
1.0 Inv. = 584.70

142 L.F.-SSPRCHE Class HE-IV 14x23-Inch @ 0.20%
1.0 Inv. = 584.52
2.0 Inv. = 584.24

93 L.F.-SSPRCHE Class HE-IV 14x23-Inch @ 0.20%
2.0 Inv. = 584.24
3.0 Inv. = 584.05

156 L.F.-SSPRCHE Class HE-IV 14x23-Inch @ 0.40%
10.0 Inv. = 584.78
7.0 Inv. = 584.15

CONCRETE PIPE SUPPORT, (FOR LATERAL) SEE DETAIL

8" PVC SANITARY Inv.=582.89

CONCRETE PIPE SUPPORT, SEE DETAIL

*ALL EXISTING STORM SEWER INFORMATION IS APPROXIMATE. FIELD VERIFY ALL INFORMATION PRIOR TO CONSTRUCTION.

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	STORM SEWER	SHEET 56	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\STORM SEWER.DWG
WIS 42 LINCOLN - STORM_01

PLOT DATE : 9/12/2016 9:46 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 0.024933

WISDOT/CADDS SHEET 41

BENCHMARKS				
NO.	STATION	LOCATION	DESCRIPTION	ELEV.
702	39+41.8	35.9' RT.	TOP OF HYDRANT PUMPER NOZZLE	591.24

N

MATCHLINE STA. 38+50

MATCHLINE STA. 44+50

REMOVING INLETS

MINI STORM SEWER LATERAL 4-INCH (TYP.)

MINI STORM SEWER 6-INCH

C.O.

CAUTION

(12-INCH)

REMOVING MANHOLES

39+00

40+00

41+00

42+00

43+00

44+00

STA. 40+68

STA. 41+19

STA. 42+14

STA. 44+29

LINCOLN AVENUE (STH 42)

STORM SEWER LATERAL 4-INCH

STORM SEWER LATERAL 4-INCH

11.1 INLETS 2X3-H
STA = 40+05.10 @ 23.50' LT

11.0 MANHOLES 4-J
STA = 40+05.10 @ 16.75' LT

12.1 INLETS 2X3-H
STA = 41+59.75 @ 23.50' LT

12.0 MANHOLES 4-J
STA = 41+59.75 @ 16.75' LT

13.0 INLETS 4-H
STA = 42+53.00 @ 17.50' LT

13.1 INLETS 2X3-H
STA = 42+53.00 @ 23.50' RT

CONNECT TO EXISTING 24" STORM SEWER

15.0 MANHOLES 8X8 SPECIAL-J
STA = 43+12.75 @ 52.70' LT

14.0 MANHOLES 8X8 SPECIAL-J
STA = 43+13.00 @ 17.50' LT

17.1 INLETS 2X3-H
STA = 43+85.00 @ 23.50' LT

17.0 MANHOLES 6X6-J
STA = 43+85.00 @ 15.75' LT

(24-INCH)

(15-INCH)

(18-INCH)

17.2 INLETS 2X3-H
STA = 43+84.00 @ 17.50' RT

EXISTING INLET TO REMAIN, ADJUSTING INLET COVERS
STA = 43+56.85 @ 46.15' RT
EX.3

16.1 INLETS 2X3-H
STA = 42+91.10 @ 46.00' RT

16.0 MANHOLES 4X4-H
STA = 43+12.50 @ 46.00' RT

RECONNECT EXISTING 12" STORM SEWER

EXISTING INLET TO REMAIN, ADJUSTING INLET COVERS
STA = 43+35.47 @ 45.60' RT
EX.2

BM*702

MINI STORM SEWER LATERAL 4-INCH (TYP.)

MINI STORM SEWER 6-INCH

STORM SEWER LATERAL 4-INCH

REMOVING INLETS

11.4 INLETS 2X3-H
STA = 39+49.76 @ 50.33' RT

11.3 INLETS 2X3-H
STA = 39+78.74 @ 47.43' RT

11.2 INLETS 2X3-H
STA = 40+05.10 @ 19.95' RT

24TH STREET

25TH STREET

LEGEND

XXXXX XXXXX REMOVING STORM SEWER (SIZE)

590.00

580.00

FINISHED ℄ PROFILE

11.0
Rim = 588.77

12.0
Rim = 588.36

13.0
Rim = 588.01

14.0
Rim = 588.33

17.0
Rim = 588.67

(CONSIDER CAST-IN-PLACE)
(NO ADJUSTMENT RINGS)

(CONSIDER CAST-IN-PLACE)
(2"-4" ADJUSTMENT RINGS)

155 L.F.-SSPRC Class IV 24-Inch @ 0.30%
11.0 Inv. = 584.09
12.0 Inv. = 583.62

93 L.F.-SSPRC Class IV 24-Inch @ 0.30%
12.0 Inv. = 583.62
13.0 Inv. = 583.34

60 L.F.-SSPRC Class IV 24-Inch @ 0.30%
13.0 Inv. = 583.34
14.0 Inv. = 583.16

72 L.F.-SSPRCHE Class HE-IV 34x53-Inch @ 0.21%
14.0 Inv. = 583.16
17.0 Inv. = 583.31

106 L.F.-SSPRCHE Class HE-IV 34x53-Inch @ 0.21%
17.0 Inv. = 583.31
18.0 Inv. = 583.53

15" PVC SANITARY
Inv.=580.76

CONCRETE PIPE SUPPORT, SEE DETAIL

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	STORM SEWER	SHEET 57	E

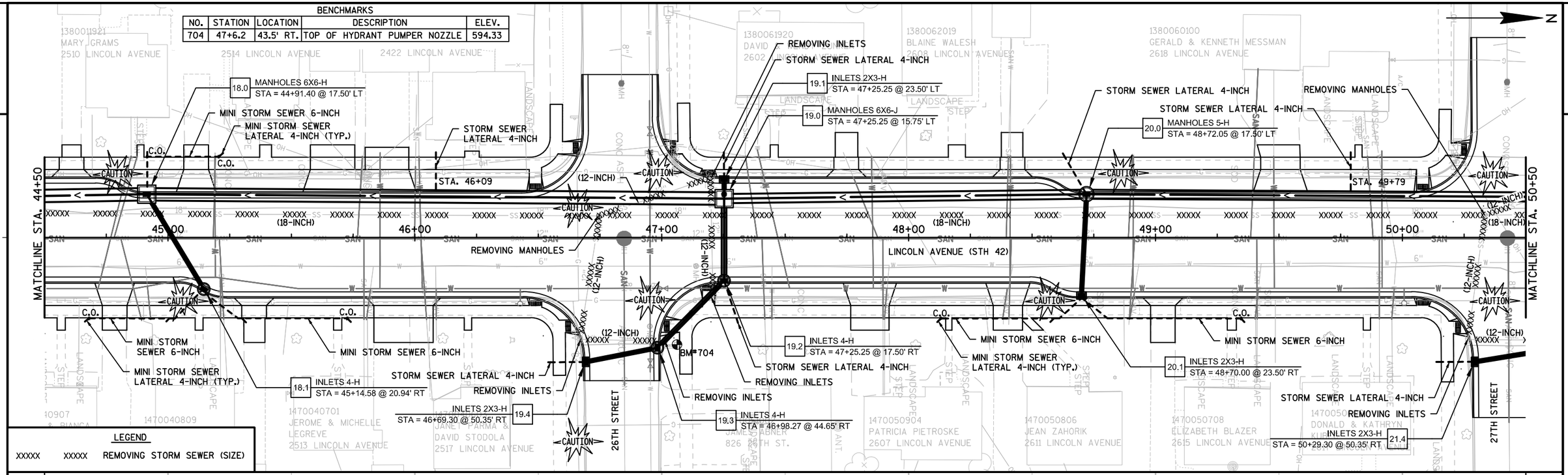
FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\STORM SEWER.DWG
WIS 42 LINCOLN - STORM_02

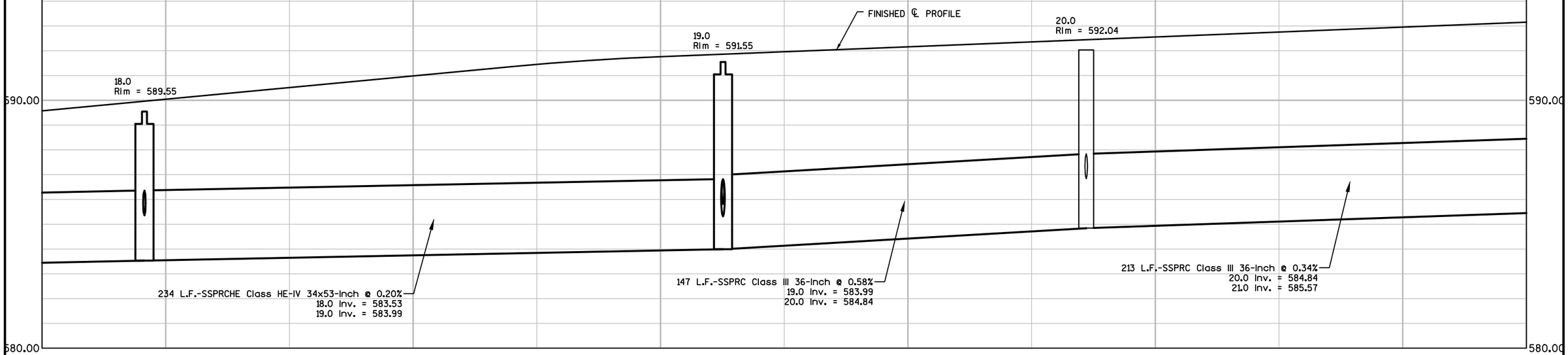
PLOT DATE : 9/12/2016 9:46 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 41

BENCHMARKS

NO.	STATION	LOCATION	DESCRIPTION	ELEV.
704	47+6.2	43.5' RT.	TOP OF HYDRANT PUMPER NOZZLE	594.33





PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	STORM SEWER	SHEET 58	E

BENCHMARKS				
NO.	STATION	LOCATION	DESCRIPTION	ELEV.
705	50+65.2	41.6' RT.	TOP OF HYDRANT PUMPER NOZZLE	595.58
706	53+97.7	39.7' LT.	TOP OF HYDRANT PUMPER NOZZLE	597.85

N

MATCHLINE STA. 50+50

MATCHLINE STA. 56+50

51+00 52+00 53+00 54+00 55+00 56+00

LINCOLN AVENUE (STH 42)

STA. 55+42

(12-INCH) REMOVING INLETS

STORM SEWER LATERAL 4-INCH

21.1 INLETS 2X3-H
STA = 50+85.25 @ 23.50' LT

21.0 MANHOLES 5-J
STA = 50+85.25 @ 16.25' LT

22.0 MANHOLES 5-DRIVEWAY SPECIAL
STA = 52+33.75 @ 17.50' LT

REMOVING MANHOLES

(12-INCH) REMOVING INLETS

23.1 INLETS 2X3-H
STA = 54+22.75 @ 23.50' LT

23.0 MANHOLES 5-J
STA = 54+22.75 @ 16.25' LT

STORM SEWER LATERAL 4-INCH

MANHOLES 5-H
STA = 55+94.90 @ 17.50' LT 42.0

CAUTION

(18-INCH)

(15-INCH)

(12-INCH) XXXXX

BM*705

BM*706

C.O.

MINI STORM SEWER 6-INCH

MINI STORM SEWER LATERAL 4-INCH (TYP.)

21.2 INLETS 4-H
STA = 50+85.25 @ 17.50' RT

REMOVING INLETS

STORM SEWER LATERAL 4-INCH

INLETS 2X3-H
STA = 52+33.75 @ 23.43' RT 22.1

STORM SEWER LATERAL 4-INCH

REMOVING INLETS

21.3 INLETS 4-H
STA = 50+58.27 @ 45.66' RT

27TH STREET

STORM SEWER LATERAL 4-INCH

REMOVING INLETS

INLETS 2X3-H
STA = 53+64.30 @ 50.35' RT 23.4

28TH STREET

23.5 INLETS 2X3-H
STA = 54+32.75 @ 17.50' RT

23.2 INLETS 4-H
STA = 54+22.75 @ 17.50' RT

REMOVING INLETS

REMOVING INLETS

23.3 INLETS 4-H
STA = 53+93.27 @ 44.66' RT

MINI STORM SEWER LATERAL 4-INCH (TYP.)

MINI STORM SEWER 6-INCH

INLETS 2X3-H
STA = 56+13.90 @ 23.50' RT 42.1

LEGEND

XXXXX XXXXX REMOVING STORM SEWER (SIZE)

1380122008
CLEM BECKER, INC.
2806 LINCOLN AVENUE

1470060902
RONALD & PATRICIA LUTZ
2711 LINCOLN AVENUE

1470060804
RONALD & PATRICIA LUTZ
2711 LINCOLN AVENUE

1470060706
ERVIN KRIZEK
2713 LINCOLN AVENUE

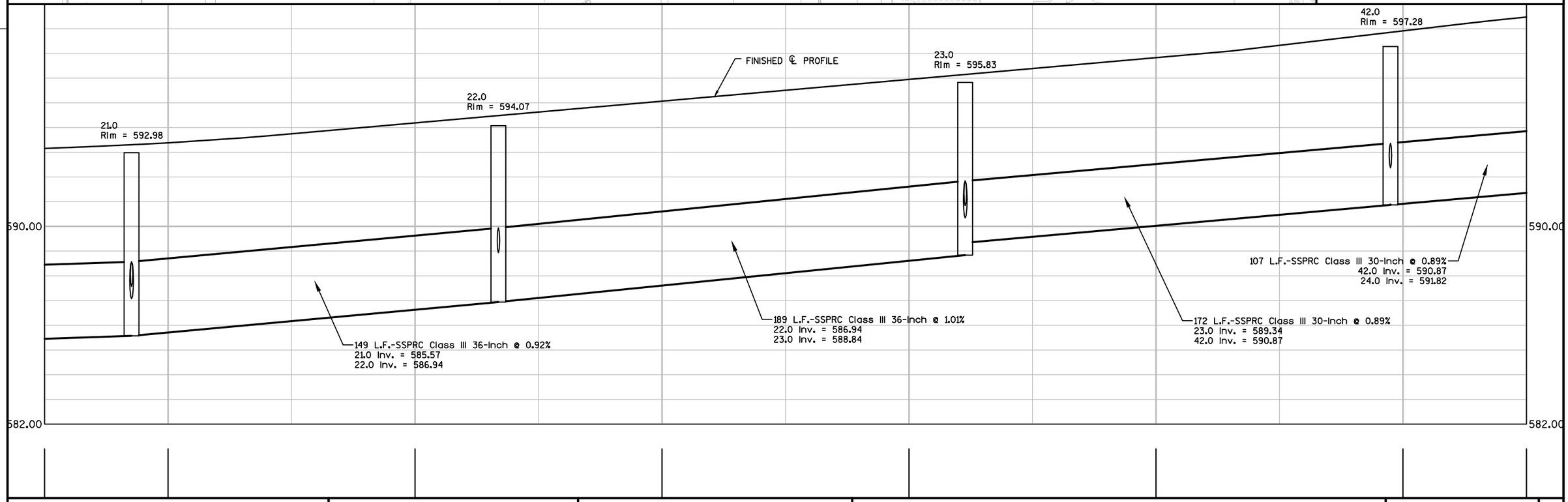
1470070679
LEONARD & YVONNE

1470070893
THOMAS TERP
2809 LINCOLN AVENUE

STEVEN KAKES
828 27TH ST.

PAUL & PAULETTE SIMONAR
825 28TH ST.

PAUL & PAULETTE SIMONAR

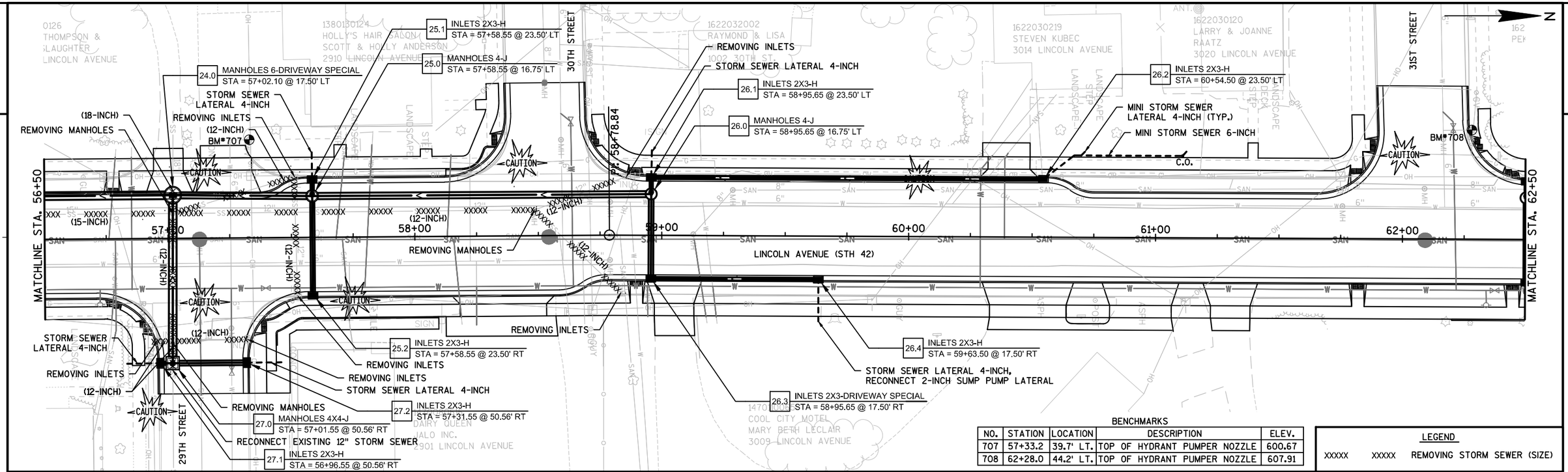


PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	STORM SEWER	SHEET 59	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\STORM SEWER.DWG
WIS 42 LINCOLN - STORM_04

PLOT DATE : 9/12/2016 9:47 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 41

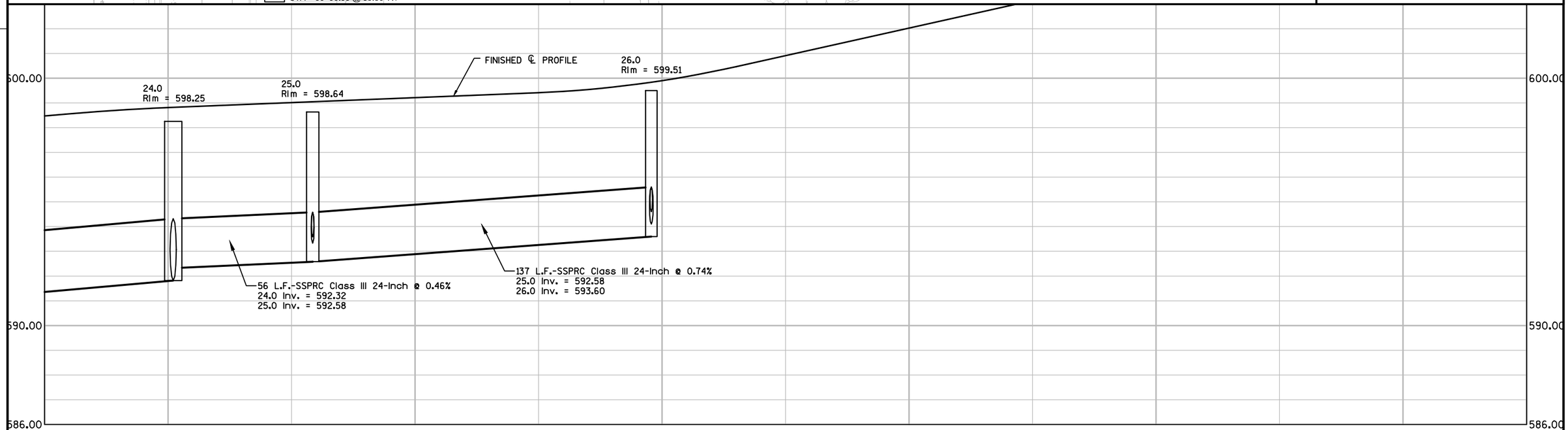


BENCHMARKS

NO.	STATION	LOCATION	DESCRIPTION	ELEV.
707	57+33.2	39.7' LT.	TOP OF HYDRANT PUMPER NOZZLE	600.67
708	62+28.0	44.2' LT.	TOP OF HYDRANT PUMPER NOZZLE	607.91

LEGEND

XXXXX XXXXX REMOVING STORM SEWER (SIZE)



PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	STORM SEWER	SHEET 60	E

FILE NAME : P:\90S\93\0009317O\CADD\C3D\SHEETSPLAN\STORM SEWER.DWG
WIS 42 LINCOLN - STORM_05

PLOT DATE : 9/12/2016 9:47 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 41

1622011980
PEKARSKE PROPERTIES, LLC

1622011981
PEKARSKE PROPERTIES, LLC
3108 LINCOLN AVENUE

1622010118
PEKARSKE PROPERTIES, LLC
3116 LINCOLN AVENUE

1623010749
THE LIGHTHOUSE ASSEMBLY
OF GOD CHURCH, INC.
3204 LINCOLN AVENUE

1623010239
DONNA WALOTKIEWICZ
3222 LINCOLN AVENUE

2312030001
ROBERT LAPOINT III

GTE TELEPHONE
3203 LINCOLN AVENUE

N

STORM SEWER LATERAL 4-INCH

28.1 INLETS 2X3-H
STA = 62+50.00 @ 23.50' LT

28.0 MANHOLES 4-J
STA = 62+50.00 @ 16.75' LT

STA. 63+45

MATCHLINE STA. 62+50

63+00

LINCOLN AVENUE (STH 42)

64+00

65+00

66+00

67+00

68+00

STA. 68+22

MATCHLINE STA. 68+50

STORM SEWER LATERAL 4-INCH

29.1 INLETS 2X3-H
STA = 64+20.00 @ 23.50' LT

29.0 MANHOLES 4-J
STA = 64+20.00 @ 16.75' LT

29.2 INLETS 2X3-H
STA = 64+20.00 @ 17.50' RT

RECONNECT EXISTING 36" STORM SEWER

30.0 MANHOLES 6-J
STA = 65+49.25 @ 23.00' LT

(36-INCH)

REMOVING INLETS

(12-INCH)

REMOVING MANHOLES

RECONNECT EXISTING 36" STORM SEWER

MANHOLES 5-J 31.0
STA = 65+50.00 @ 38.25' RT

INLETS 2X3-H 32.1
STA = 66+38.00 @ 17.50' RT

RECONNECT EXISTING 8" STORM SEWER

STORM SEWER LATERAL 4-INCH

32.0 MANHOLES 5-H
STA = 66+38.00 @ 17.50' LT

43.0 MANHOLES 5-H
STA = 67+10.00 @ 17.50' LT

33.0 MANHOLES 5-H
STA = 67+47.25 @ 17.50' LT

STORM SEWER LATERAL 4-INCH

(18-INCH)

33.2 INLETS 2X3-H
STA = 67+57.25 @ 17.50' RT

33.1 INLETS 2X3-H
STA = 67+47.25 @ 17.50' RT

REMOVING MANHOLES

RECONNECT EXISTING 8" STORM SEWER

44.0 MANHOLES 4-J
STA = 67+10.00 @ 35.00' RT

28.3 INLETS 2X3-H
STA = 62+60.00 @ 17.50' RT

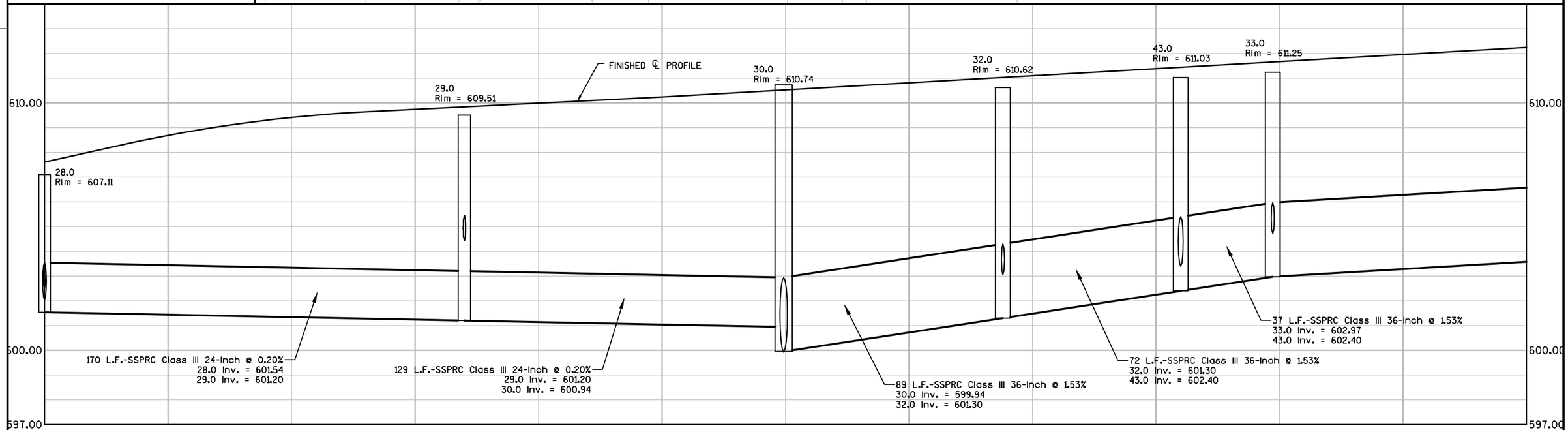
28.2 INLETS 2X3-H
STA = 62+50.00 @ 17.50' RT

STORM SEWER LATERAL 4-INCH

CAUTION

LEGEND

XXXXX XXXXX REMOVING STORM SEWER (SIZE)

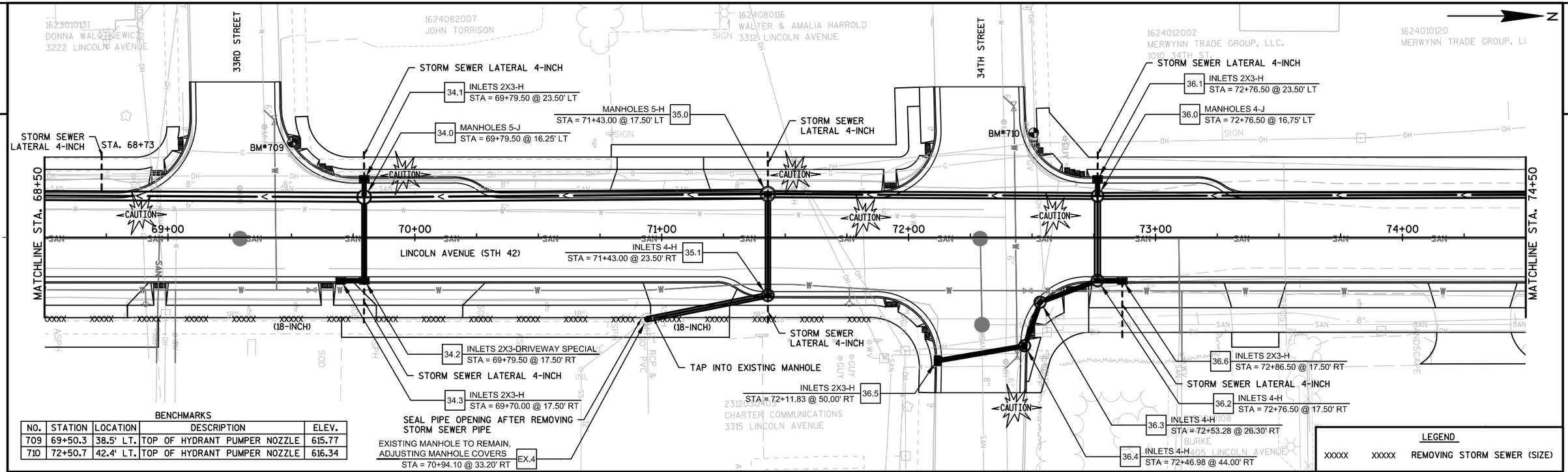


PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	STORM SEWER	SHEET 61	E

FILE NAME : P:\90S\93\0009317O\CADD\C3D\SHEETSPLAN\STORM SEWER.DWG
WIS 42 LINCOLN - STORM_06

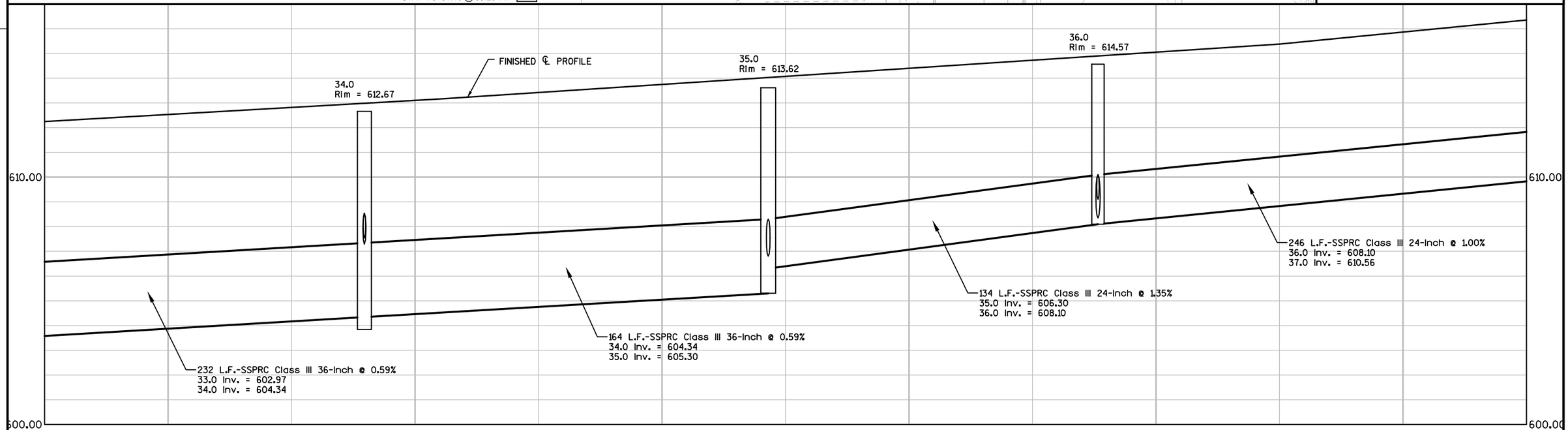
PLOT DATE : 9/12/2016 9:47 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 41



BENCHMARKS

NO.	STATION	LOCATION	DESCRIPTION	ELEV.
709	69+50.3	38.5' LT.	TOP OF HYDRANT PUMPER NOZZLE	615.77
710	72+50.7	42.4' LT.	TOP OF HYDRANT PUMPER NOZZLE	616.34



PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	STORM SEWER	SHEET 62	E

41.0 MANHOLES 4-J
STA = 75+23.00 @ 40.00' LT

37.0 MANHOLES 5-J
STA = 75+23.00 @ 17.50' LT

41.1 INLETS 1G-MS
STA = 75+64.00 @ 43.00' LT

STORM SEWER LATERAL 4-INCH

STORM SEWER LATERAL 4-INCH

38.0 INLETS 4-H
STA = 75+75.00 @ 17.50' LT

STORM SEWER LATERAL 4-INCH

39.0 INLETS 4-H
STA = 76+97.00 @ 17.50' LT

35TH STREET

35TH PLACE

PI: 78+80.40

PI: 80+50.00

40.1 INLETS 1G-MS
STA = 79+49.50 @ 35.00' LT

40.0 MANHOLES 5-H
STA = 79+42.50 @ 17.50' LT

MATCHLINE STA. 74+50

75+00 76+00 77+00 78+00 79+00 80+00

38.1 INLETS 2X3-H
STA = 75+75.00 @ 17.50' RT

39.1 INLETS 2X3-H
STA = 76+97.00 @ 17.50' RT

LINCOLN AVENUE (STH 42)

CAUTION

CAUTION

40.3 APRON ENDWALL FOR CPRC 18-INCH WITH PIPE GRATE REQ'D.
STA = 79+80.50 @ 36.50' RT

40.2 INLETS 4-H
STA = 79+42.50 @ 17.50' RT

BM*711

STORM SEWER LATERAL 4-INCH

RECONNECT STORM SEWER LATERAL

CONNECT TO EXISTING 4" PVC LATERAL

3090010505
TIMOTHY LOHR
1005 35TH PLACE

2361010011
STREU CONSTRUCTION COMP.
3612 LINCOLN AVENUE

2312020557

2312020209
TWO RIVERS BUSES INC.
3515 LINCOLN AVENUE

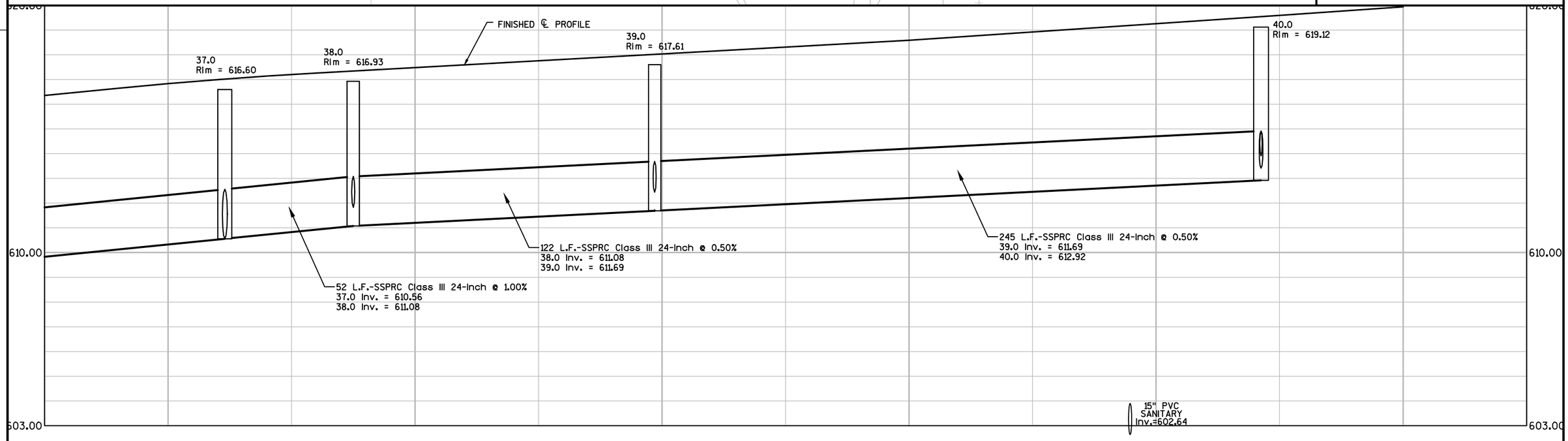
2312020405
BRUCE MOFFATT
3601 LINCOLN AVENUE

BENCHMARKS

NO.	STATION	LOCATION	DESCRIPTION	ELEV.
711	75+62.4	42.5' RT.	TOP OF HYDRANT PUMPER NOZZLE	619.63

LEGEND

XXXXX XXXXX REMOVING STORM SEWER (SIZE)

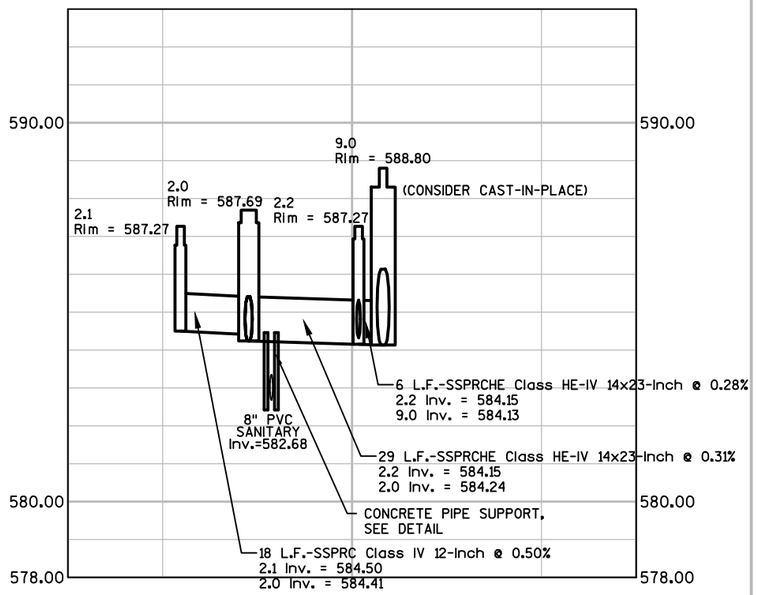


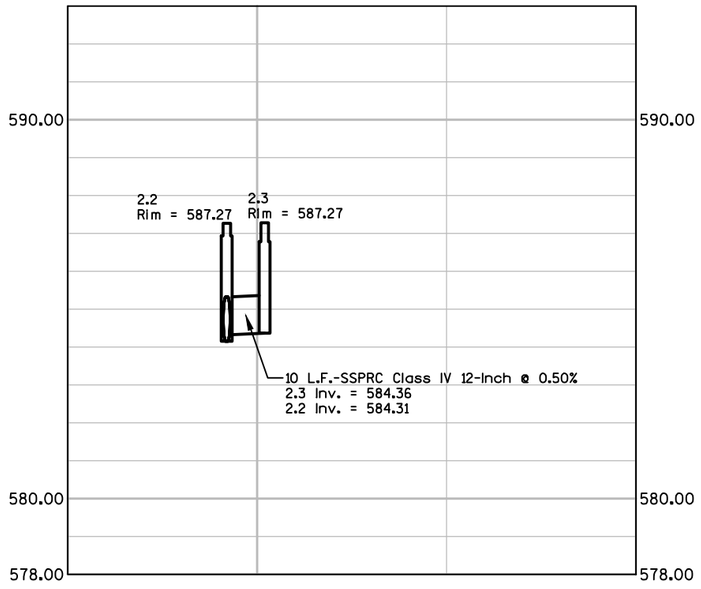
PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	STORM SEWER	SHEET 63	E

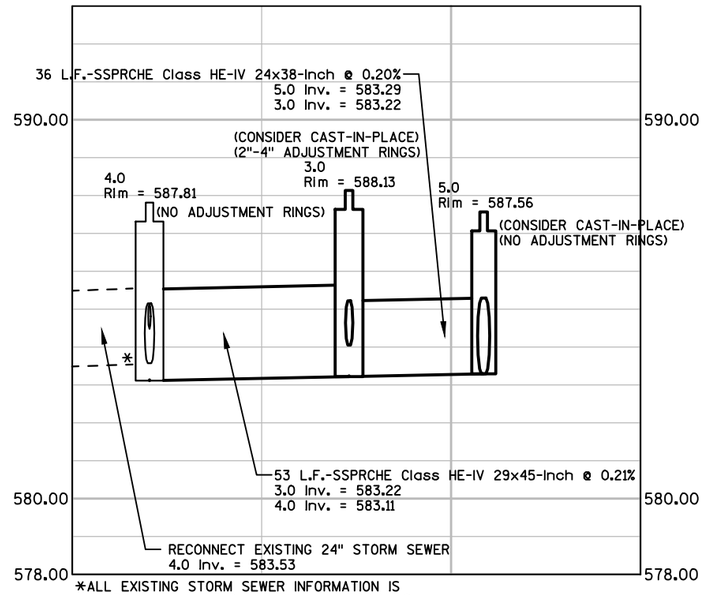
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WIS 42 LINCOLN - STORM_08

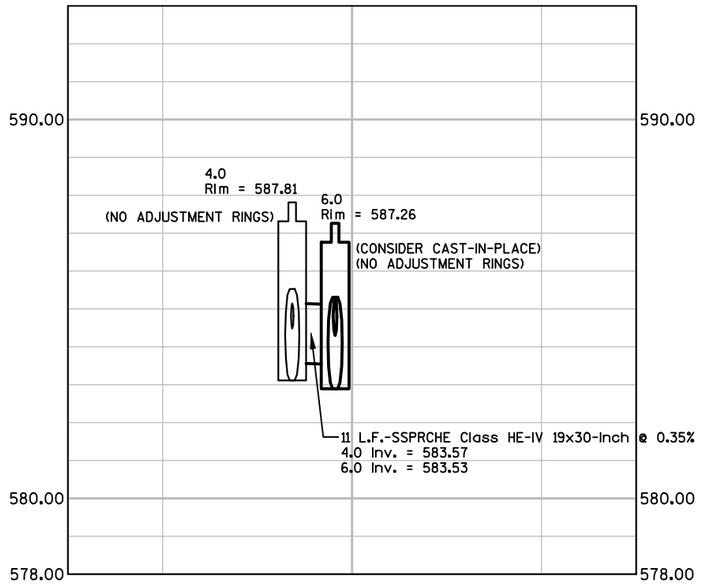
PLOT DATE : 9/12/2016 9:47 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1" = 40'_XREF

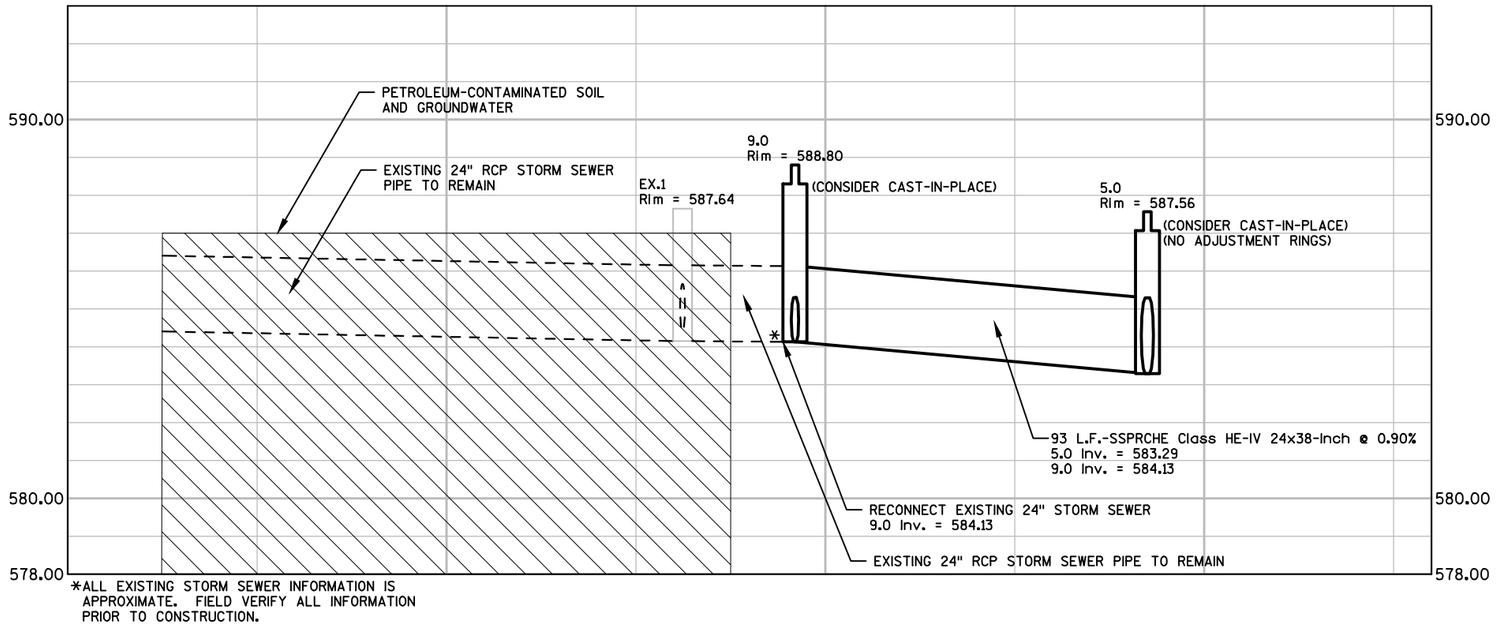
WISDOT/CADDS SHEET 41



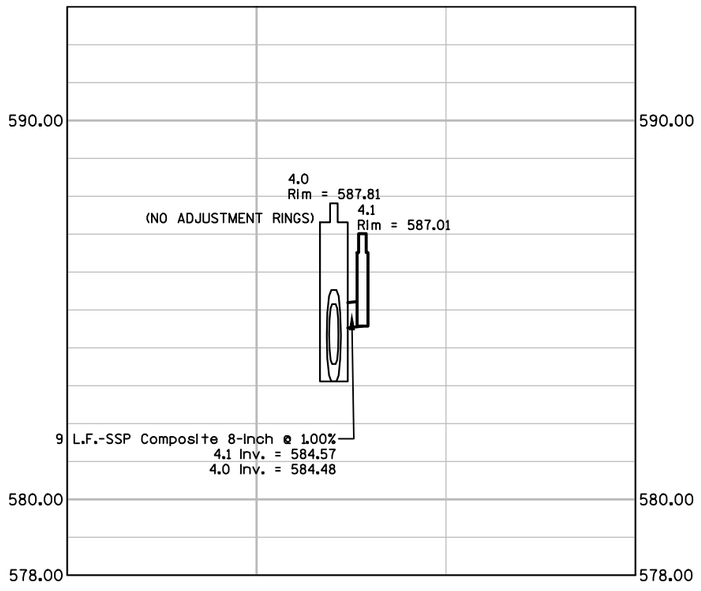


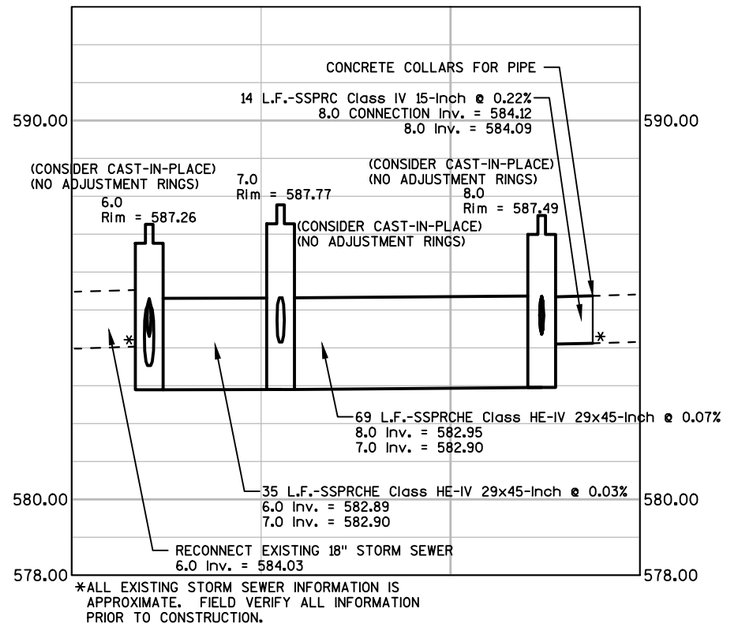


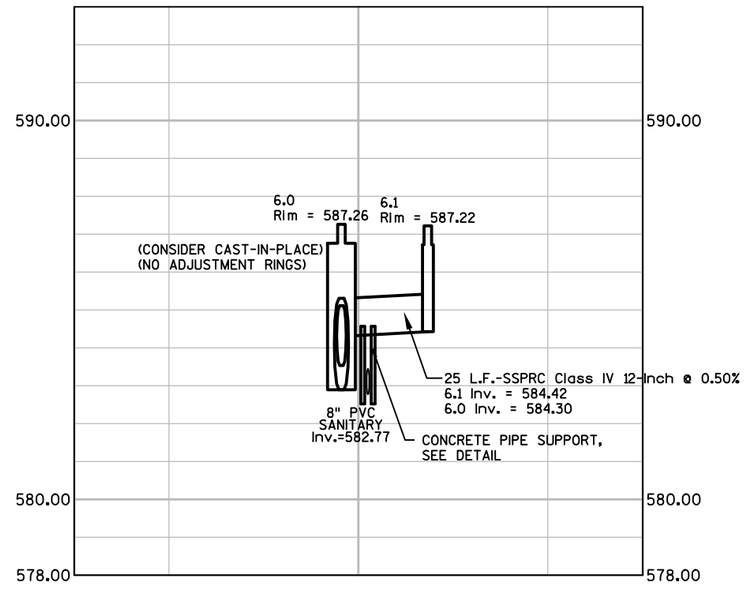


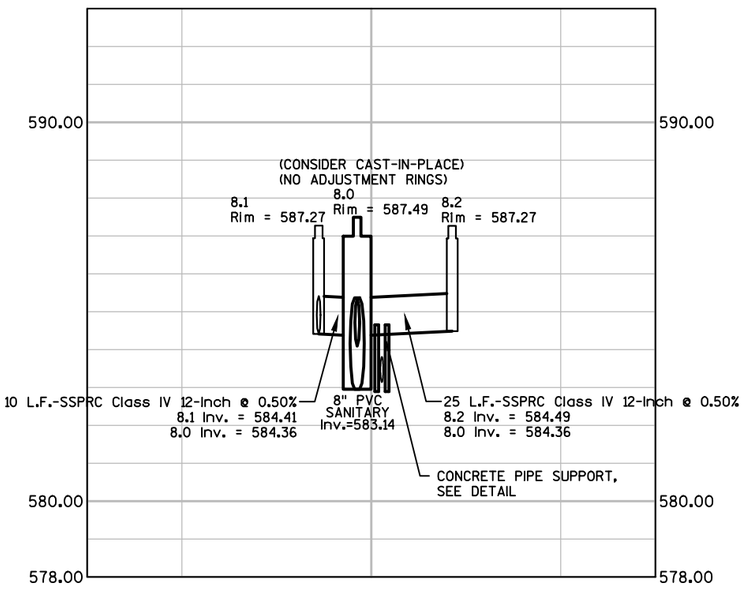


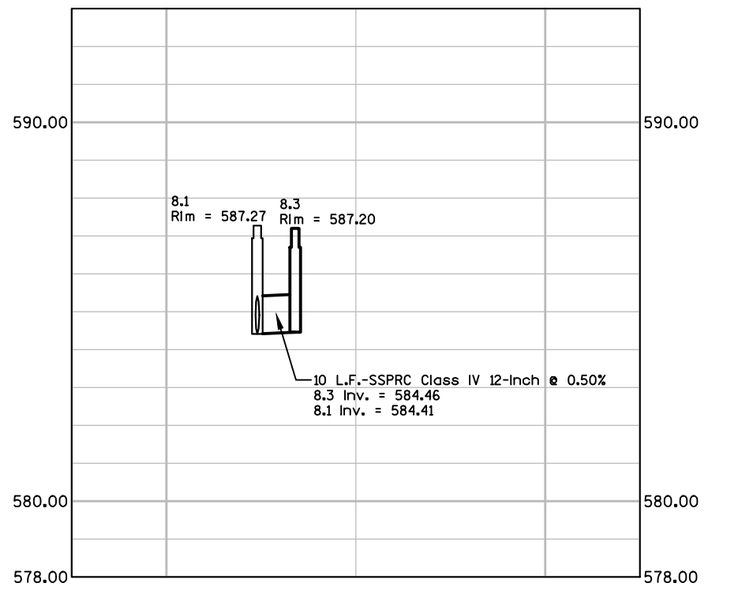
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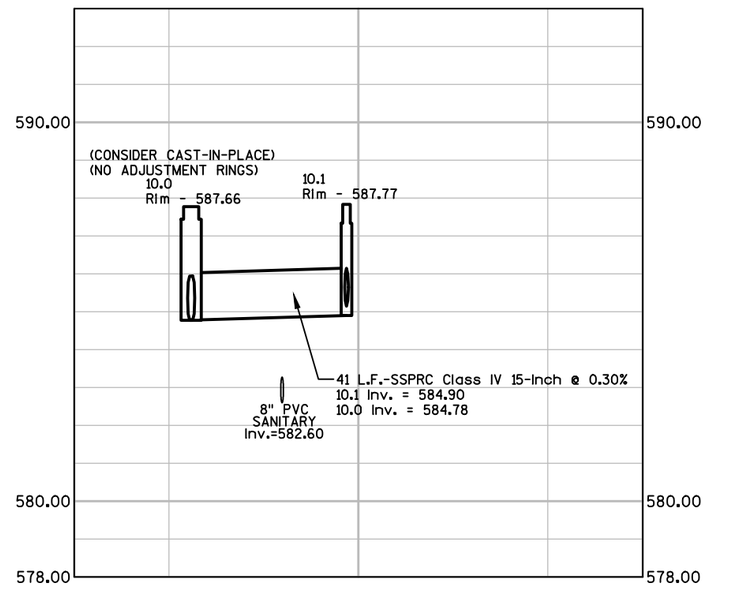




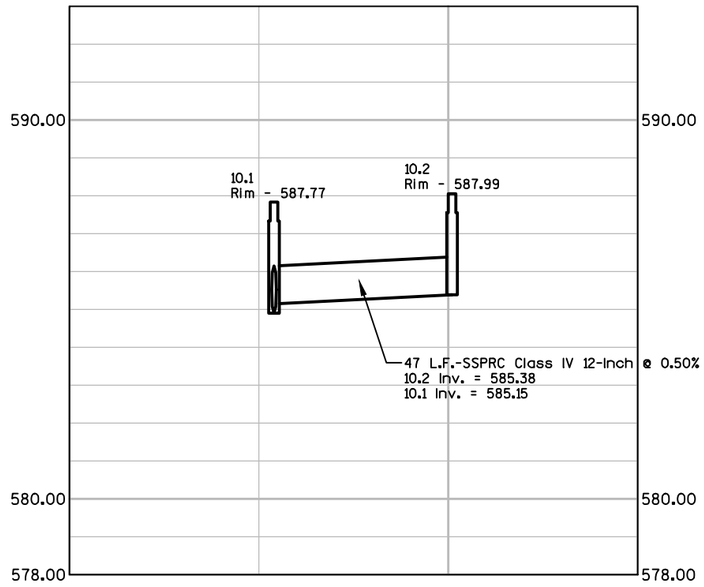


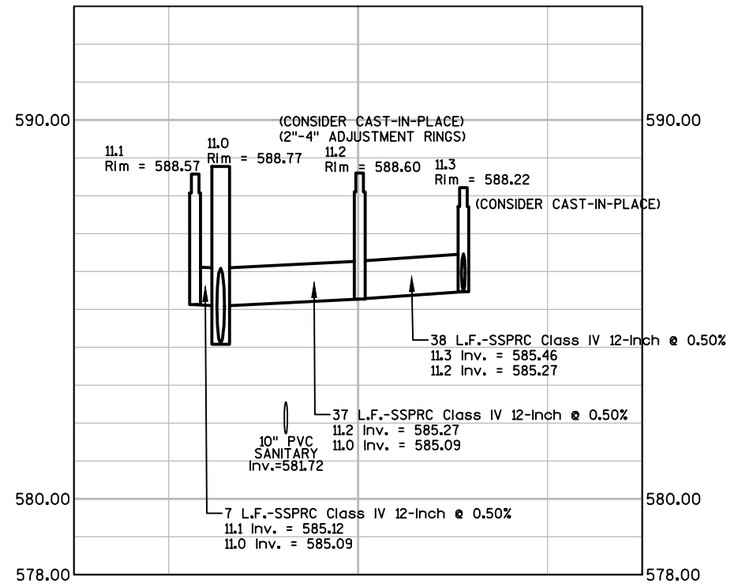


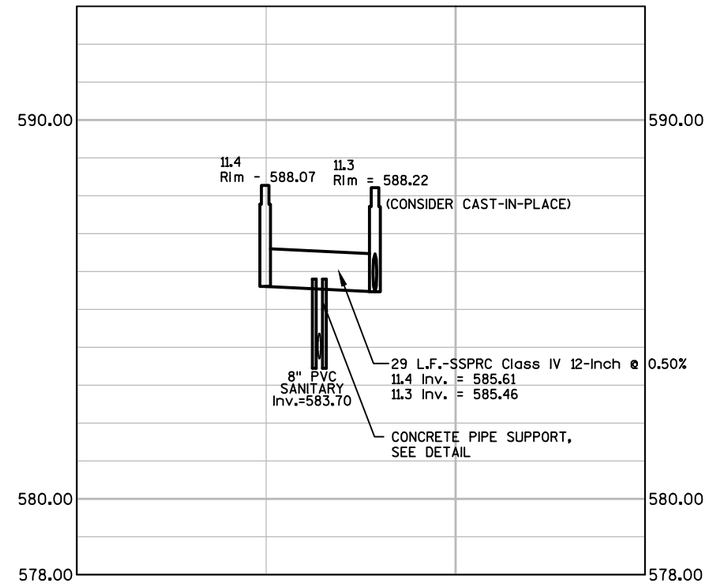


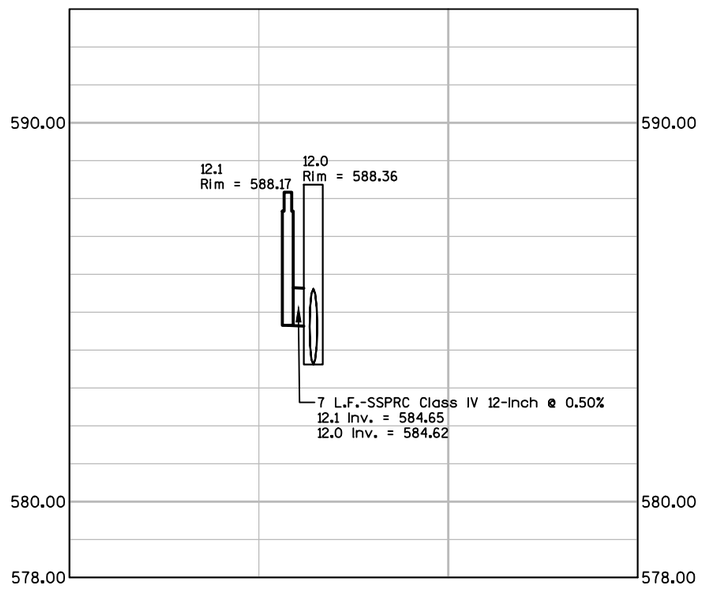


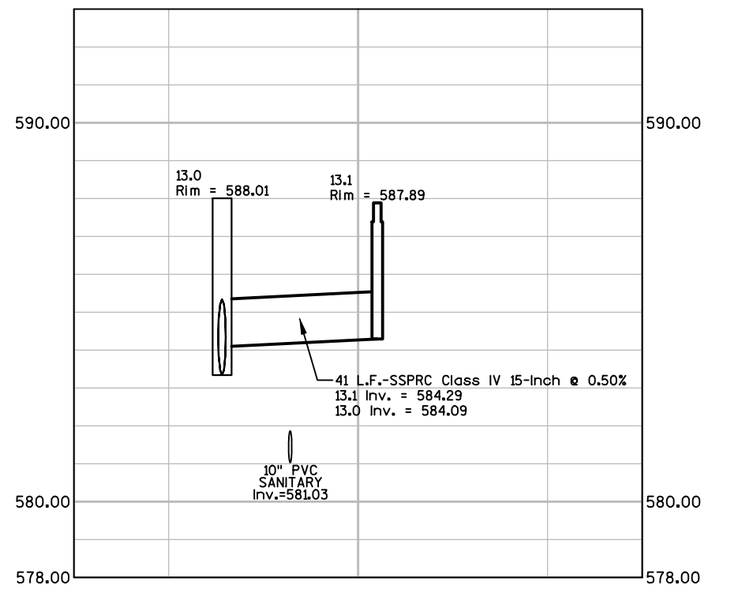
PROJECT NO:1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	STORM SEWER	SHEET 65	E

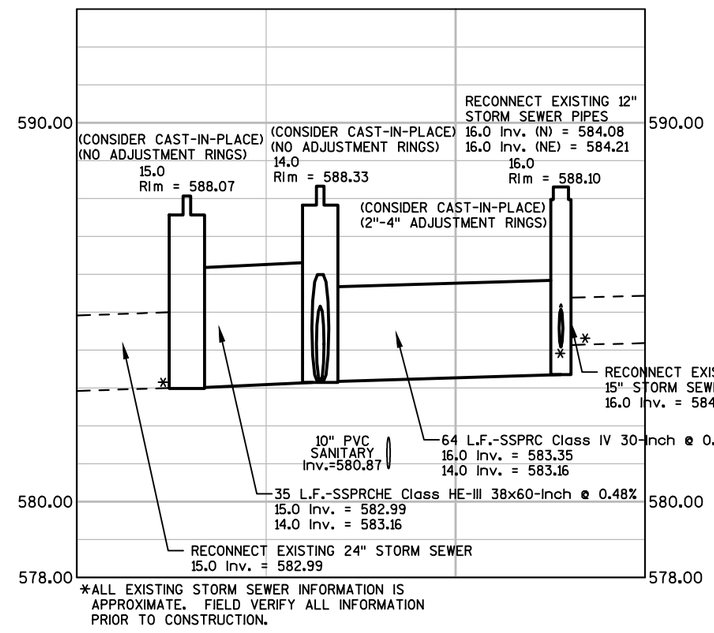

590.00
580.00
578.00
10.1
Rim = 587.77
10.2
Rim = 587.99
47 L.F.-SSPRC Class IV 12-Inch @ 0.50%
10.2 Inv. = 585.38
10.1 Inv. = 585.15

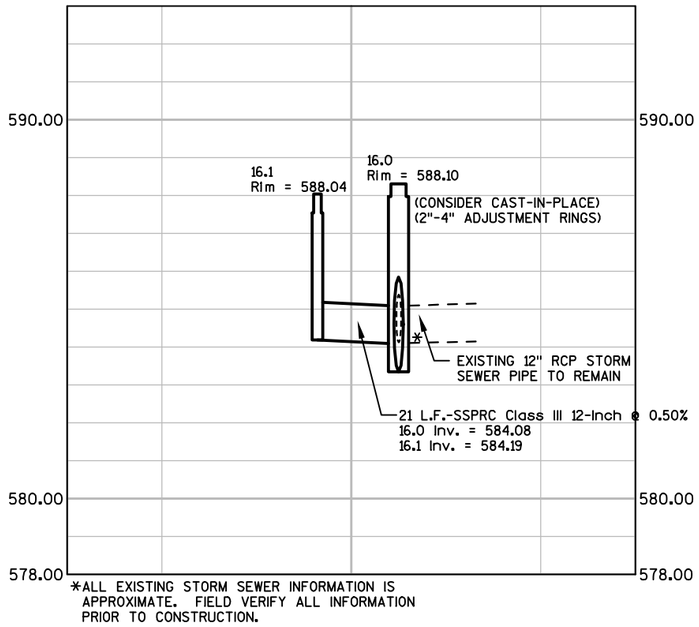

590.00
580.00
578.00
(CONSIDER CAST-IN-PLACE)
(2"-4" ADJUSTMENT RINGS)
11.1
Rim = 588.57
11.0
Rim = 588.77
11.2
Rim = 588.60
11.3
Rim = 588.22
(CONSIDER CAST-IN-PLACE)
38 L.F.-SSPRC Class IV 12-Inch @ 0.50%
11.3 Inv. = 585.46
11.2 Inv. = 585.27
37 L.F.-SSPRC Class IV 12-Inch @ 0.50%
11.2 Inv. = 585.27
11.0 Inv. = 585.09
10" PVC
SANITARY
Inv.=581.72
7 L.F.-SSPRC Class IV 12-Inch @ 0.50%
11.1 Inv. = 585.12
11.0 Inv. = 585.09

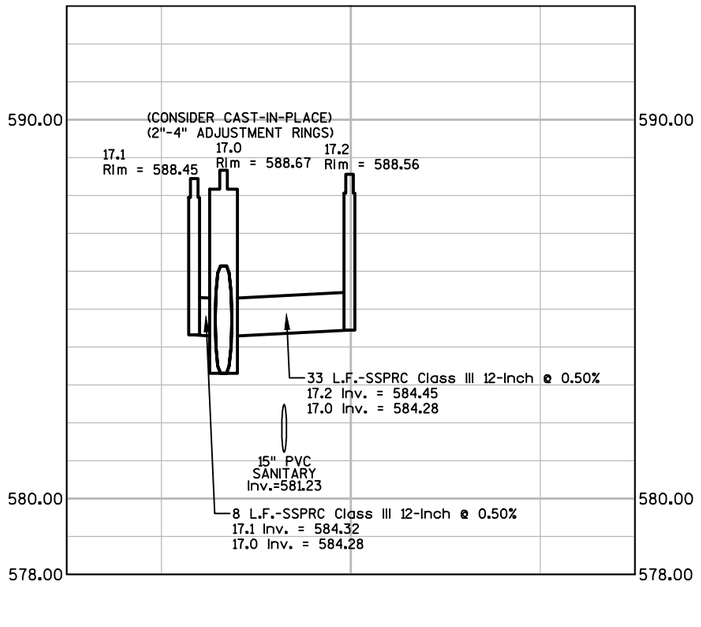

590.00
580.00
578.00
11.4
Rim = 588.07
11.3
Rim = 588.22
(CONSIDER CAST-IN-PLACE)
29 L.F.-SSPRC Class IV 12-Inch @ 0.50%
11.4 Inv. = 585.61
11.3 Inv. = 585.46
8" PVC
SANITARY
Inv.=583.70
CONCRETE PIPE SUPPORT,
SEE DETAIL

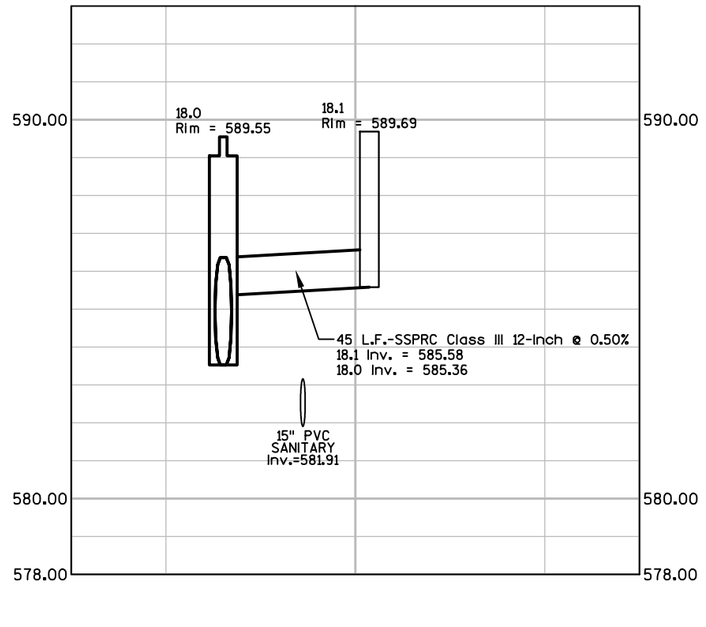

590.00
580.00
578.00
12.1
Rim = 588.17
12.0
Rim = 588.36
7 L.F.-SSPRC Class IV 12-Inch @ 0.50%
12.1 Inv. = 584.65
12.0 Inv. = 584.62

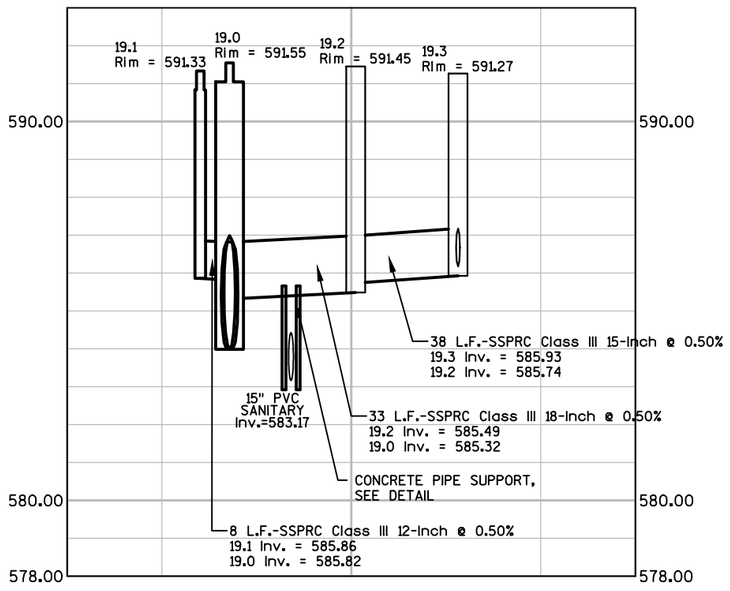

590.00
580.00
578.00
13.0
Rim = 588.01
13.1
Rim = 587.89
41 L.F.-SSPRC Class IV 15-Inch @ 0.50%
13.1 Inv. = 584.29
13.0 Inv. = 584.09
10" PVC
SANITARY
Inv.=581.03

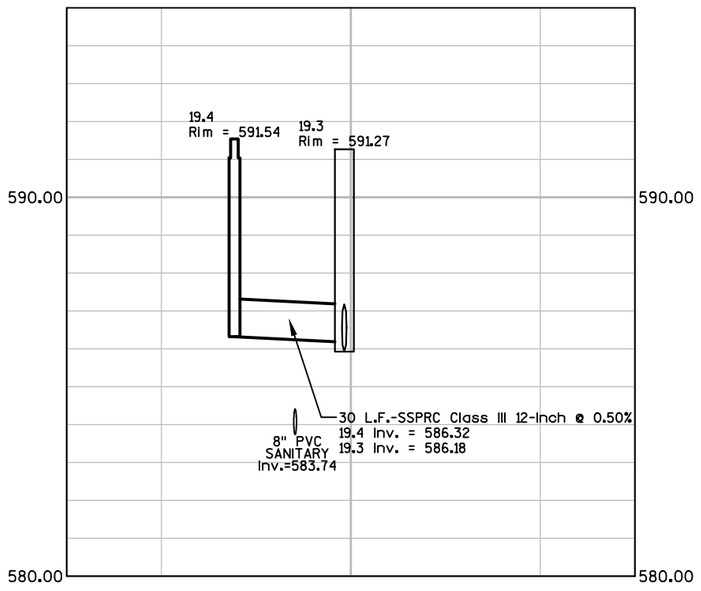

590.00
580.00
578.00
RECONNECT EXISTING 12"
STORM SEWER PIPES
16.0 Inv. (N) = 584.08
16.0 Inv. (NE) = 584.21
(CONSIDER CAST-IN-PLACE)
(NO ADJUSTMENT RINGS)
15.0
Rim = 588.07
(CONSIDER CAST-IN-PLACE)
(NO ADJUSTMENT RINGS)
14.0
Rim = 588.33
16.0
Rim = 588.10
(CONSIDER CAST-IN-PLACE)
(2"-4" ADJUSTMENT RINGS)
RECONNECT EXISTING
15" STORM SEWER (E)
16.0 Inv. = 584.13
10" PVC
SANITARY
Inv.=580.87
64 L.F.-SSPRC Class IV 30-Inch @ 0.30%
16.0 Inv. = 583.35
14.0 Inv. = 583.16
35 L.F.-SSPRCHE Class HE-III 38x60-Inch @ 0.48%
15.0 Inv. = 582.99
14.0 Inv. = 583.16
RECONNECT EXISTING 24" STORM SEWER
15.0 Inv. = 582.99
*ALL EXISTING STORM SEWER INFORMATION IS
APPROXIMATE. FIELD VERIFY ALL INFORMATION
PRIOR TO CONSTRUCTION.

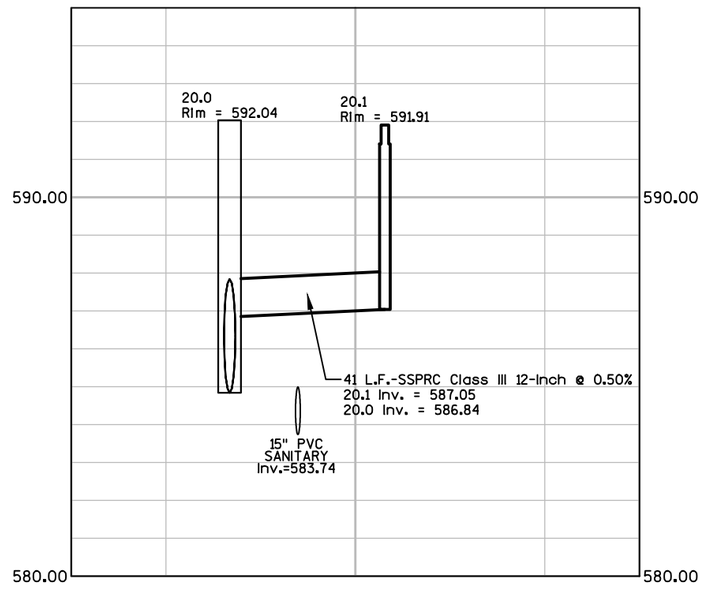




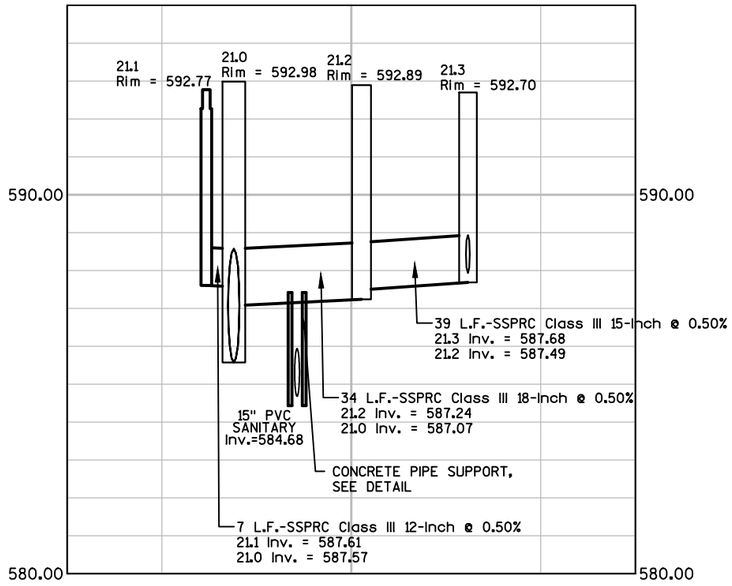


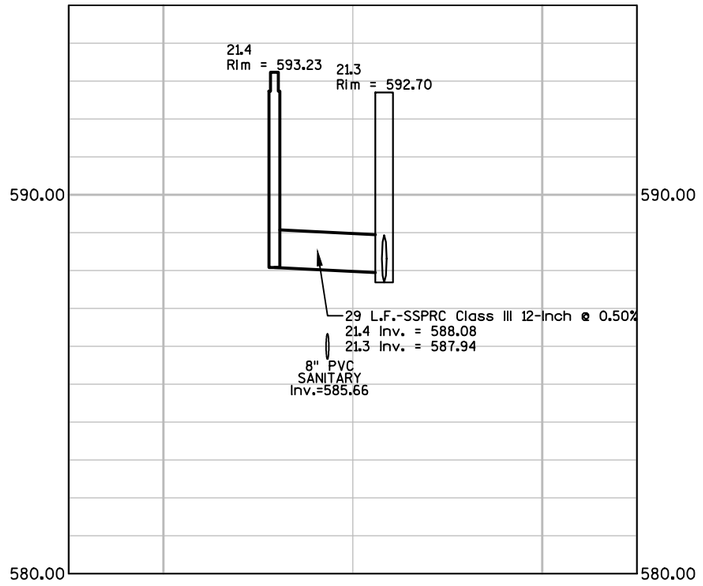




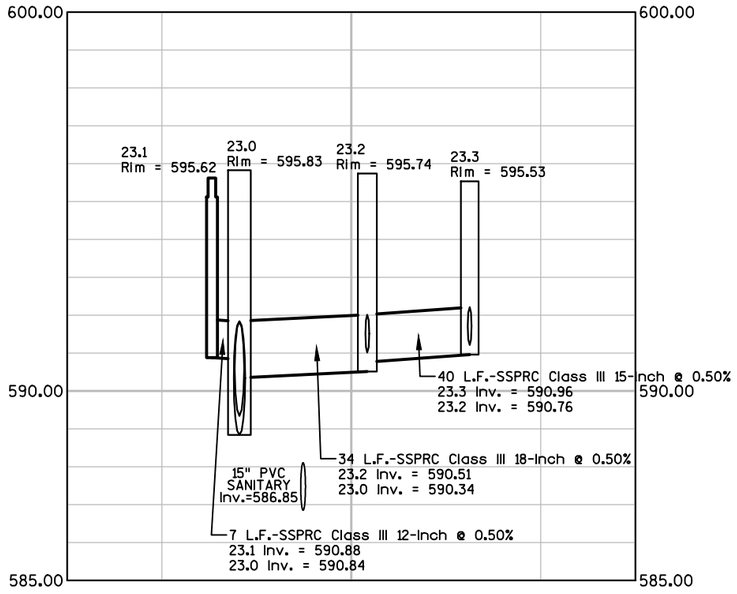


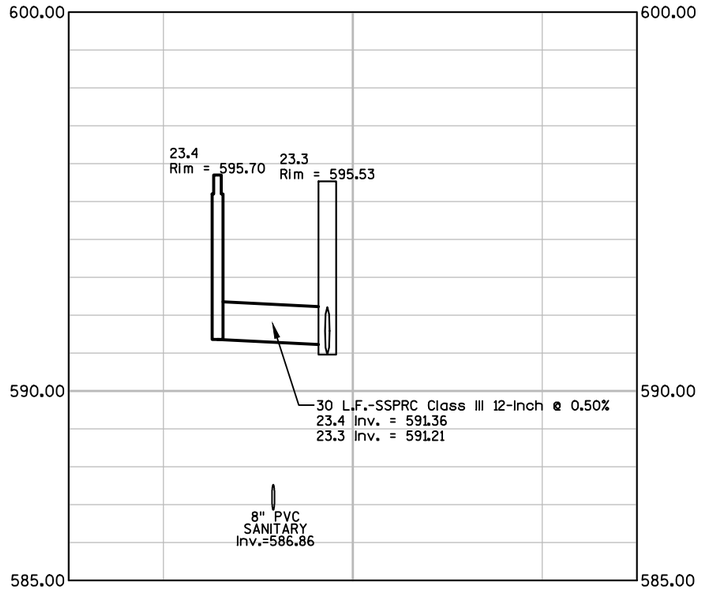
PROJECT NO:1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	STORM SEWER	SHEET 67	E

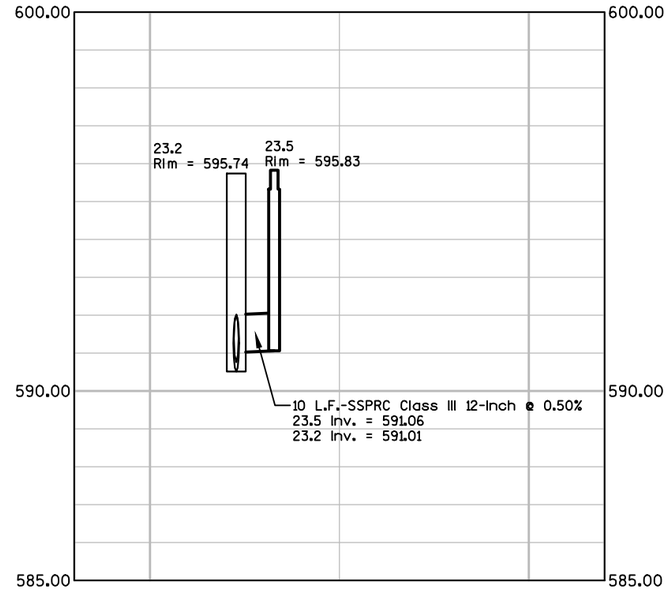

21.1
Rim = 592.77
21.0
Rim = 592.98
21.2
Rim = 592.89
21.3
Rim = 592.70
590.00
580.00
39 L.F.-SSPRC Class III 15-Inch @ 0.50%
21.3 Inv. = 587.68
21.2 Inv. = 587.49
34 L.F.-SSPRC Class III 18-Inch @ 0.50%
21.2 Inv. = 587.24
21.0 Inv. = 587.07
15" PVC
SANITARY
Inv.=584.68
CONCRETE PIPE SUPPORT,
SEE DETAIL
7 L.F.-SSPRC Class III 12-Inch @ 0.50%
21.1 Inv. = 587.61
21.0 Inv. = 587.57

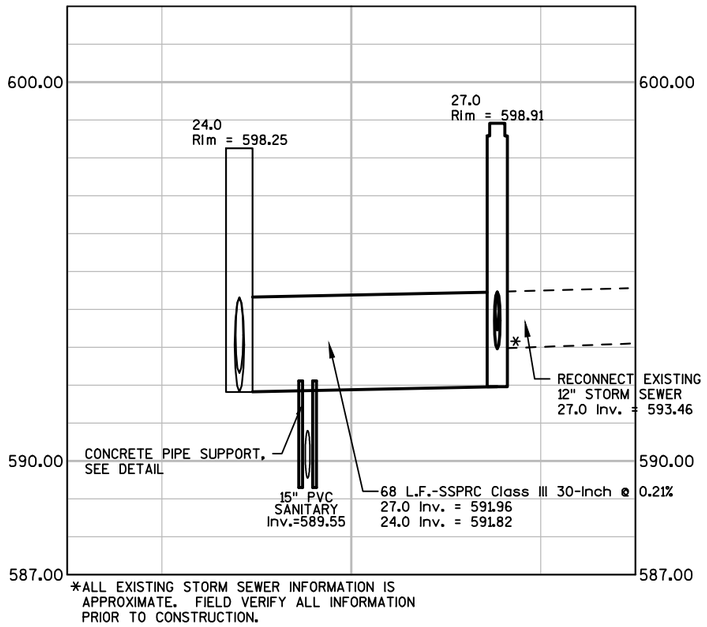

21.4
Rim = 593.23
21.3
Rim = 592.70
590.00
580.00
29 L.F.-SSPRC Class III 12-Inch @ 0.50%
21.4 Inv. = 588.08
21.3 Inv. = 587.94
8" PVC
SANITARY
Inv.=585.66


600.00
590.00
585.00
22.0
Rim = 594.07
22.1
Rim = 594.34
41 L.F.-SSPRC Class III 12-Inch @ 0.50%
22.1 Inv. = 589.14
22.0 Inv. = 588.94
15" PVC
SANITARY
Inv.=585.54

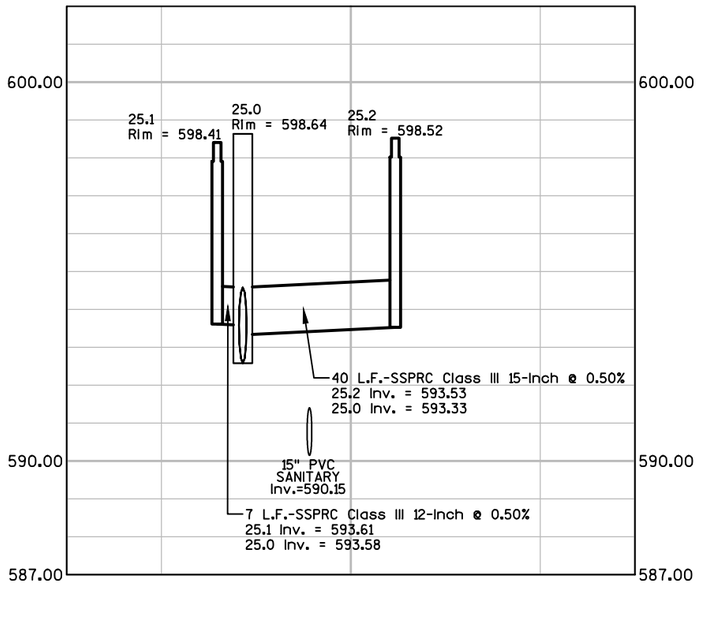

600.00
590.00
585.00
23.1
Rim = 595.62
23.0
Rim = 595.83
23.2
Rim = 595.74
23.3
Rim = 595.53
40 L.F.-SSPRC Class III 15-Inch @ 0.50%
23.3 Inv. = 590.96
23.2 Inv. = 590.76
34 L.F.-SSPRC Class III 18-Inch @ 0.50%
23.2 Inv. = 590.51
23.0 Inv. = 590.34
15" PVC
SANITARY
Inv.=586.85
7 L.F.-SSPRC Class III 12-Inch @ 0.50%
23.1 Inv. = 590.88
23.0 Inv. = 590.84

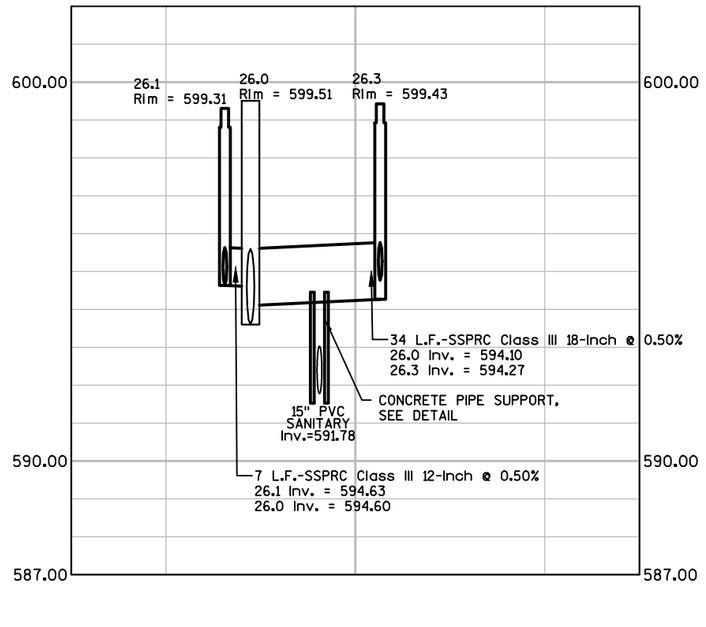

600.00
590.00
585.00
23.4
Rim = 595.70
23.3
Rim = 595.53
30 L.F.-SSPRC Class III 12-Inch @ 0.50%
23.4 Inv. = 591.36
23.3 Inv. = 591.21
8" PVC
SANITARY
Inv.=586.86

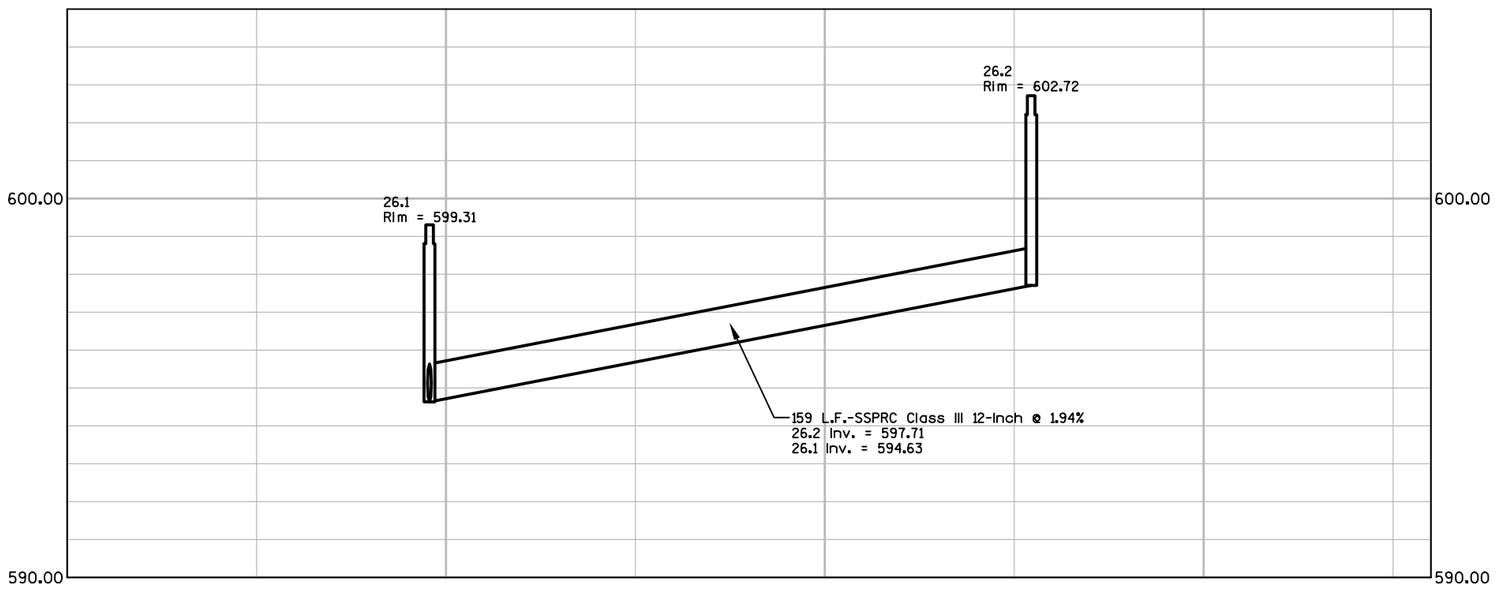

600.00
590.00
585.00
23.2
Rim = 595.74
23.5
Rim = 595.83
10 L.F.-SSPRC Class III 12-Inch @ 0.50%
23.5 Inv. = 591.06
23.2 Inv. = 591.01

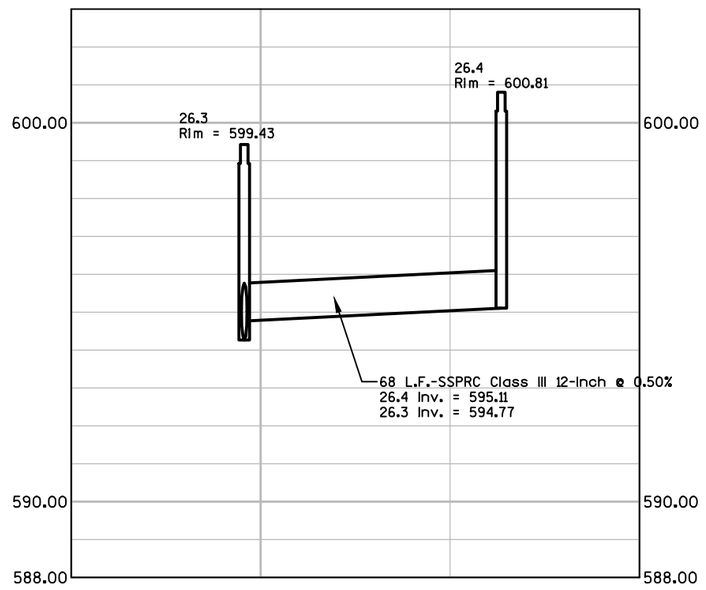


*ALL EXISTING STORM SEWER INFORMATION IS APPROXIMATE. FIELD VERIFY ALL INFORMATION PRIOR TO CONSTRUCTION.

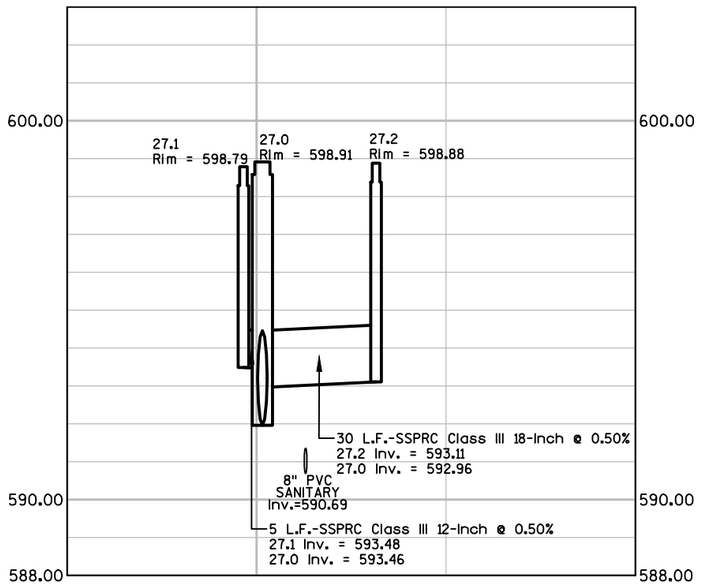


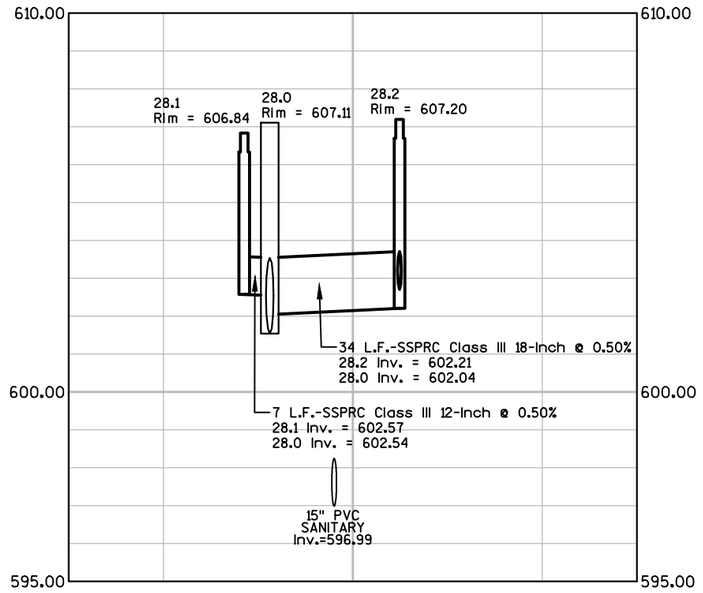


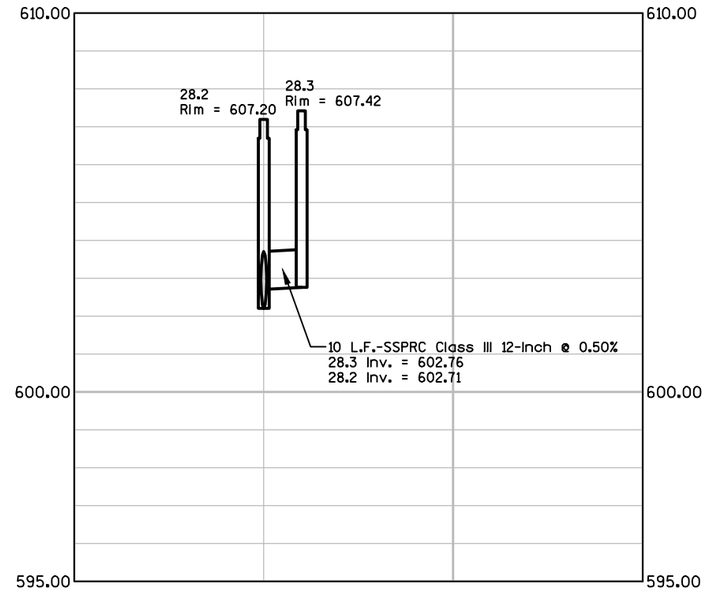


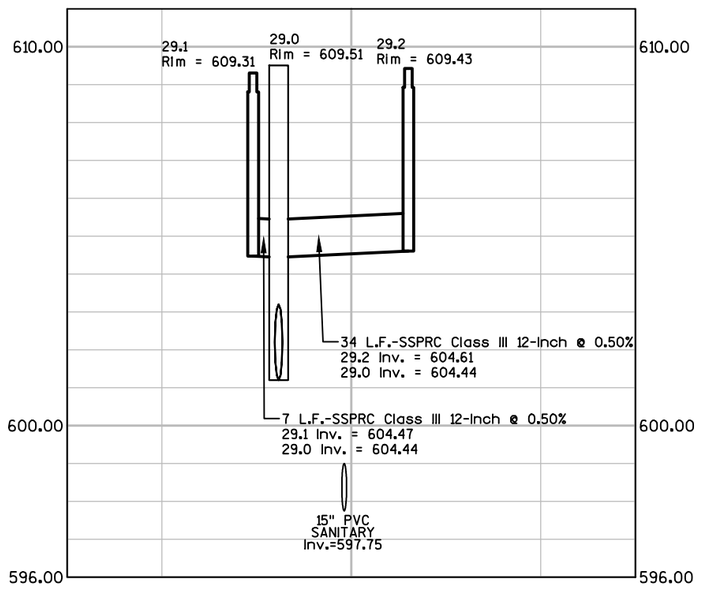


PROJECT NO:1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	STORM SEWER	SHEET 69	E

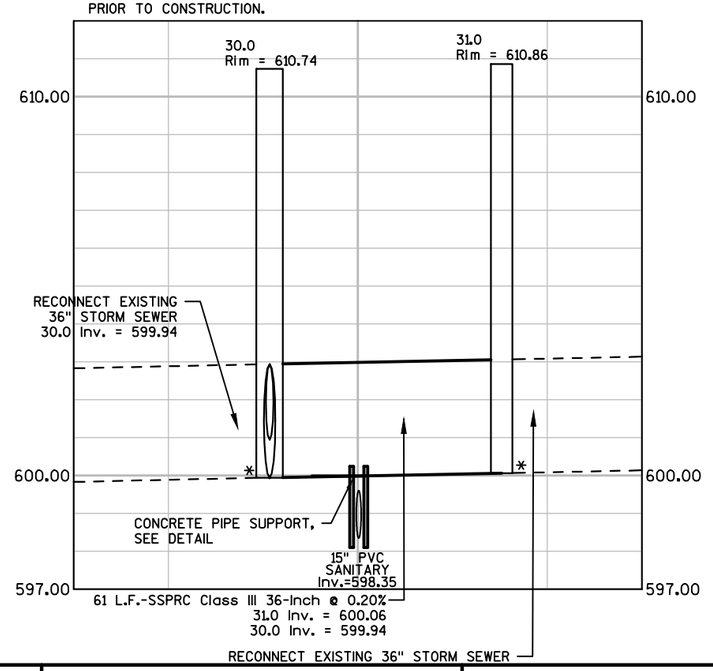




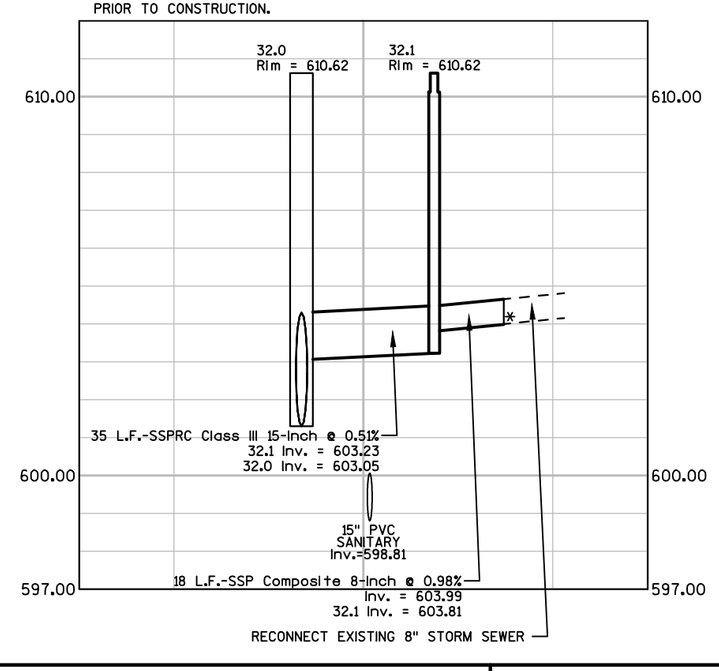




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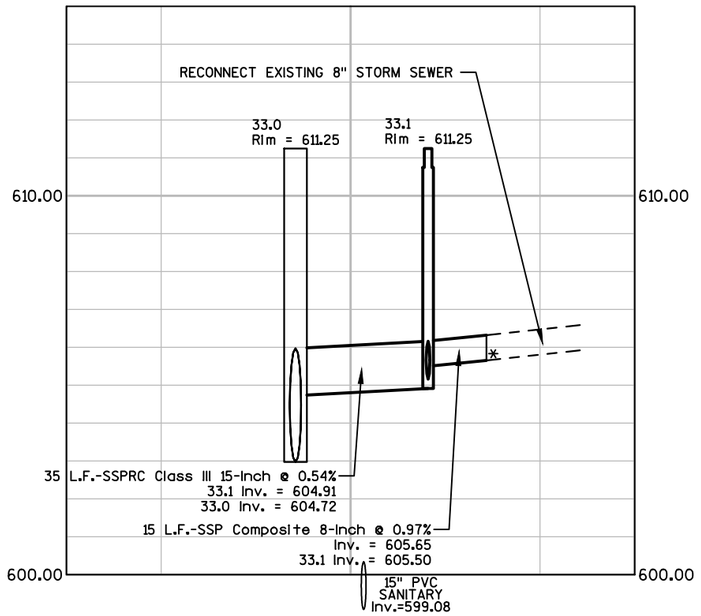


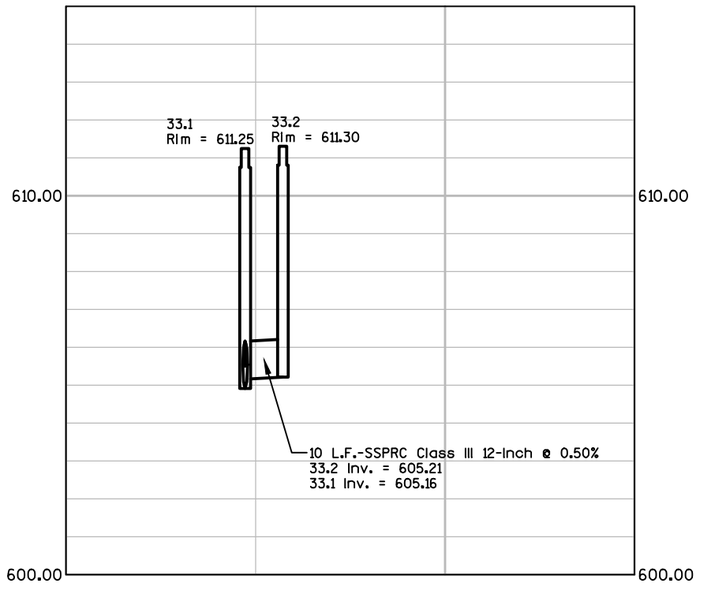
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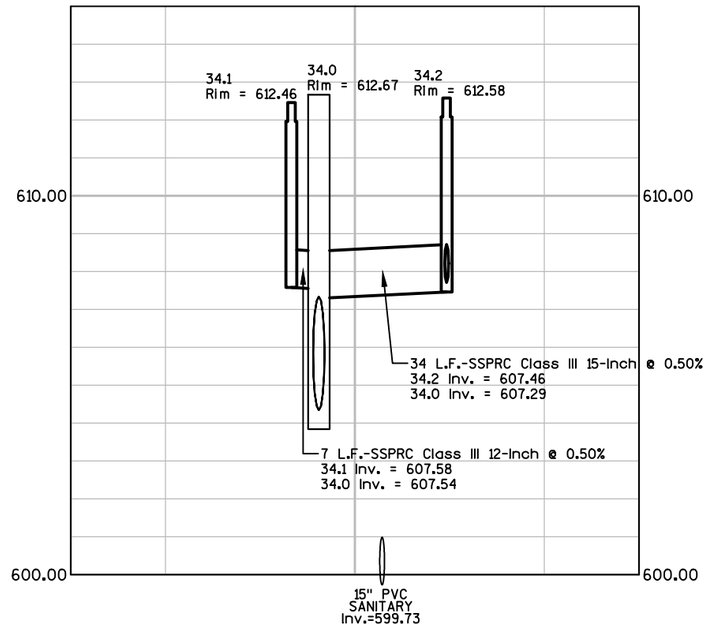


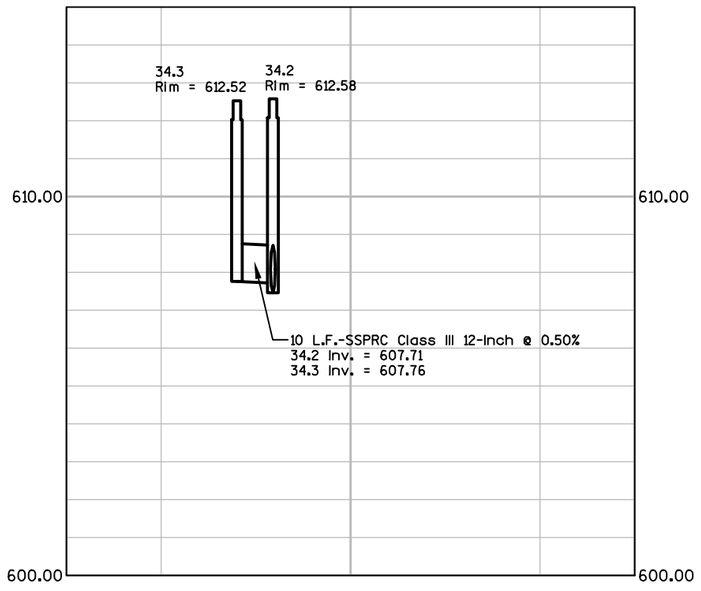
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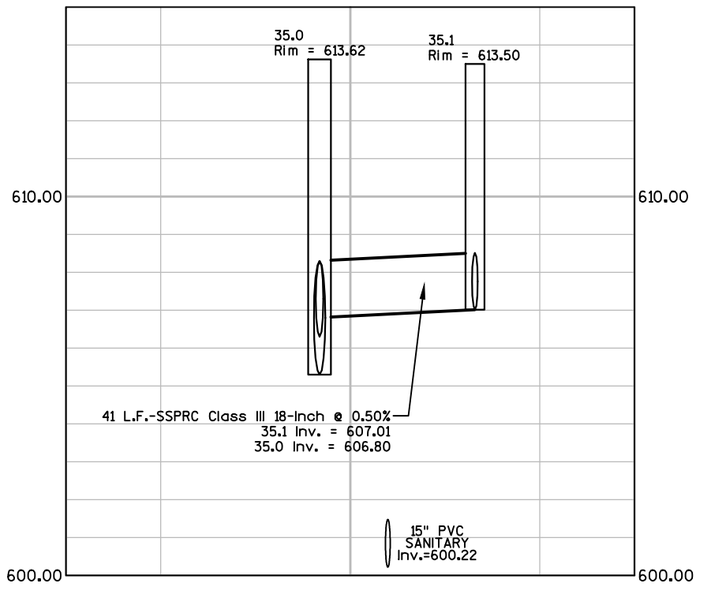
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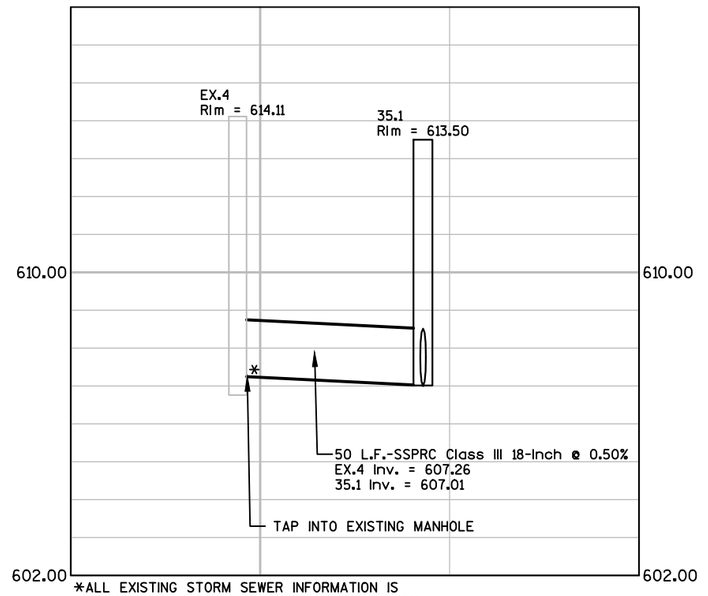




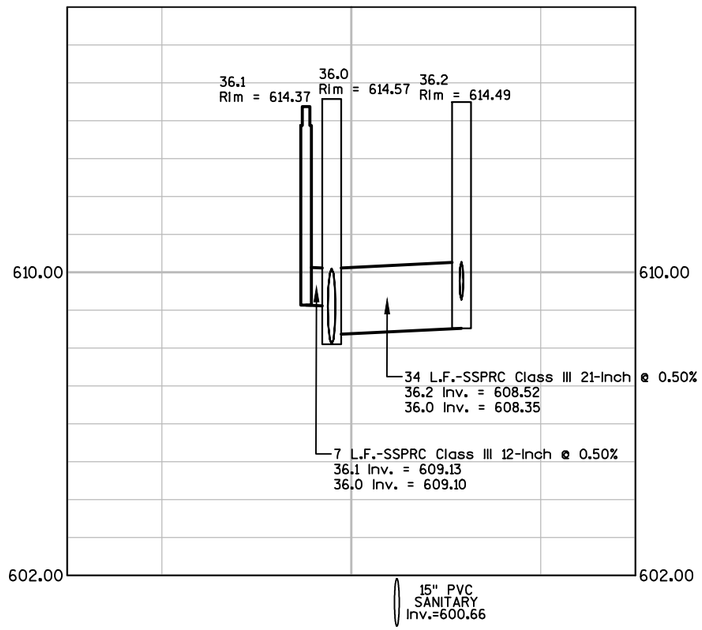


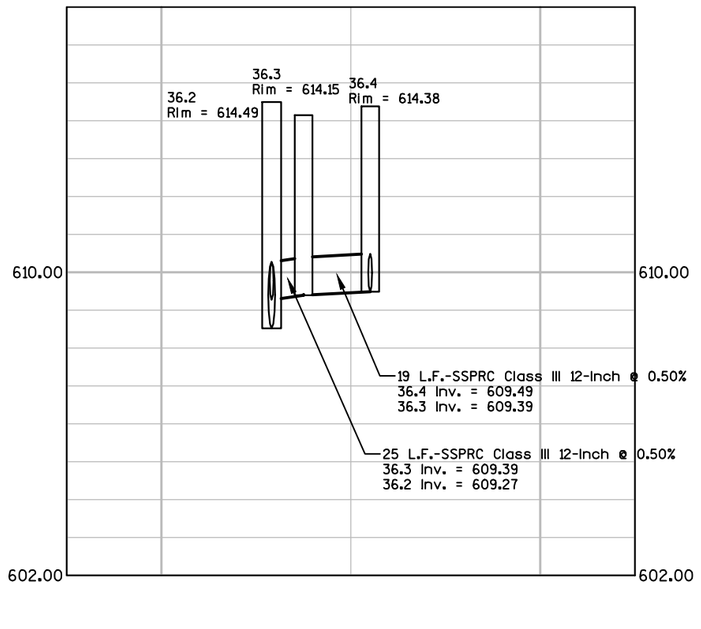


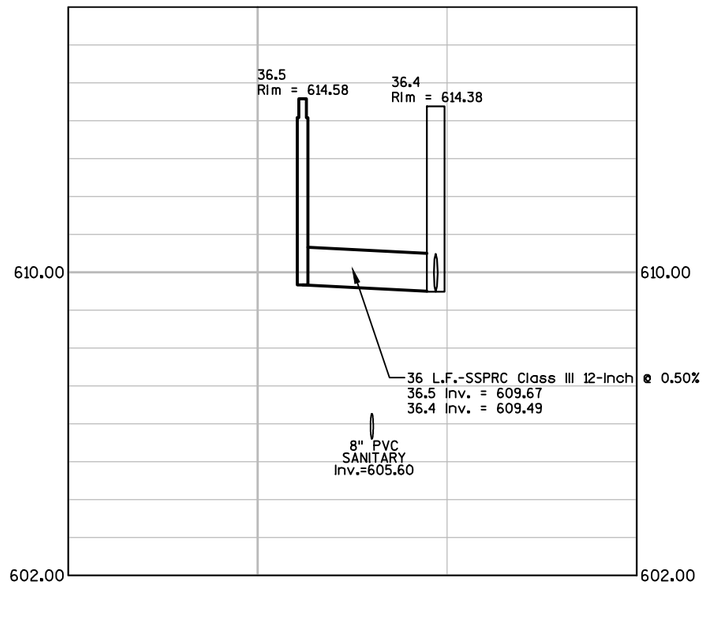


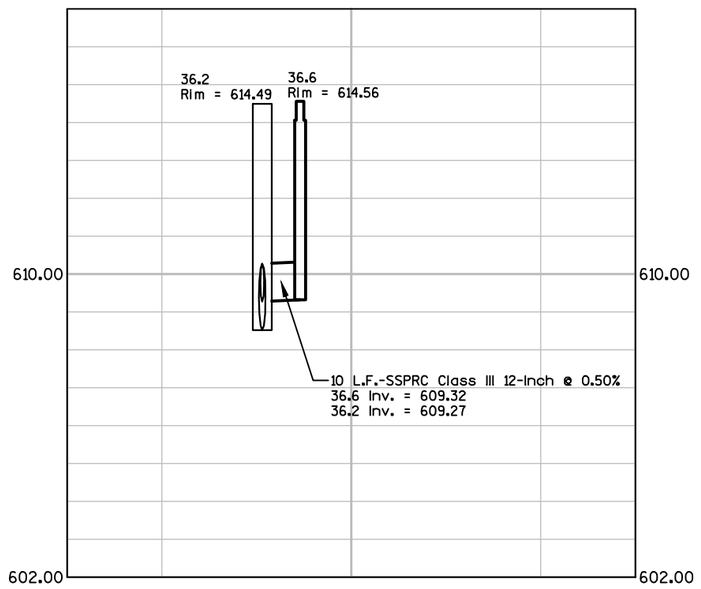


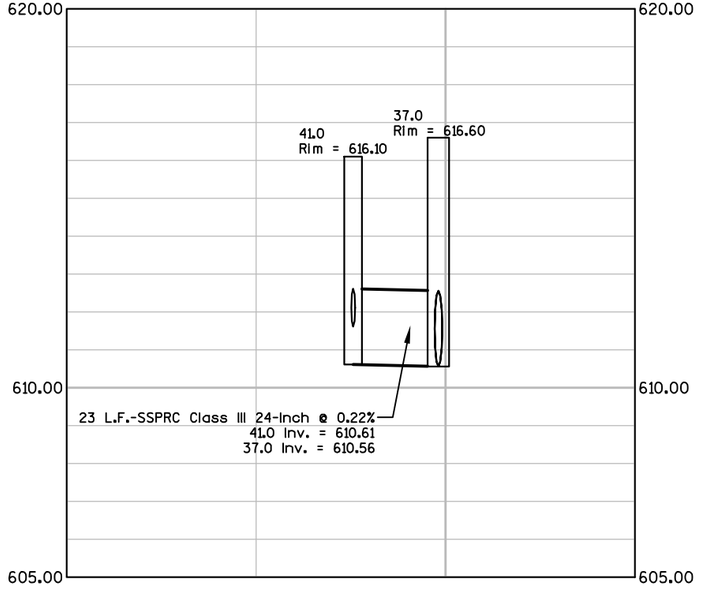
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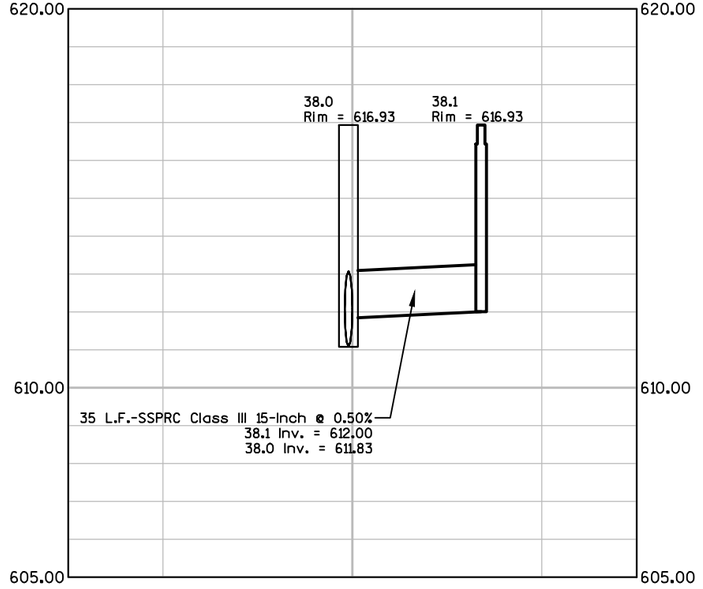




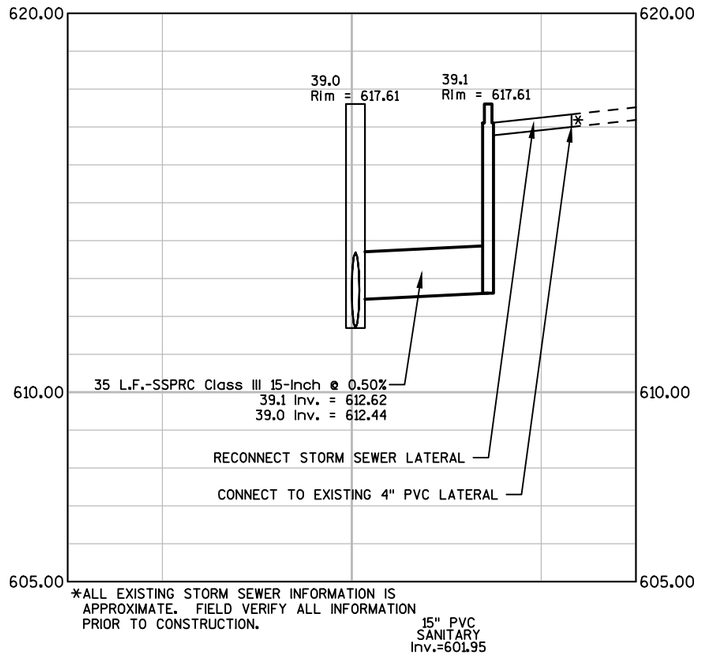


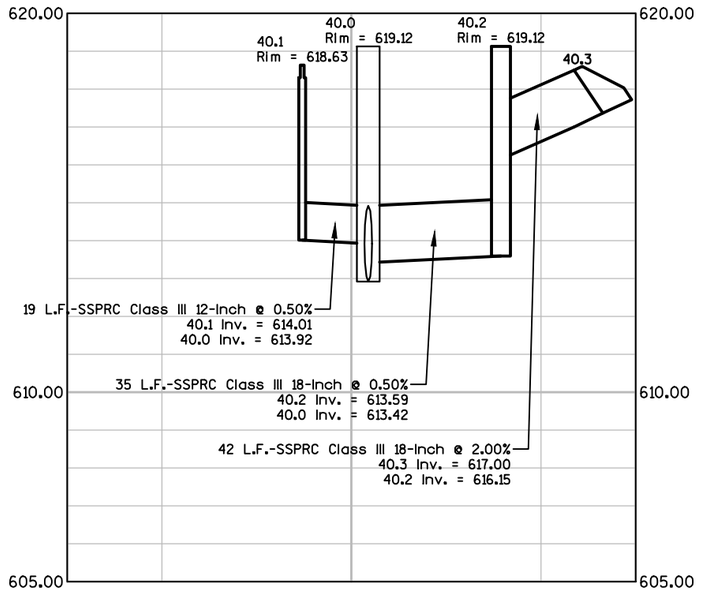


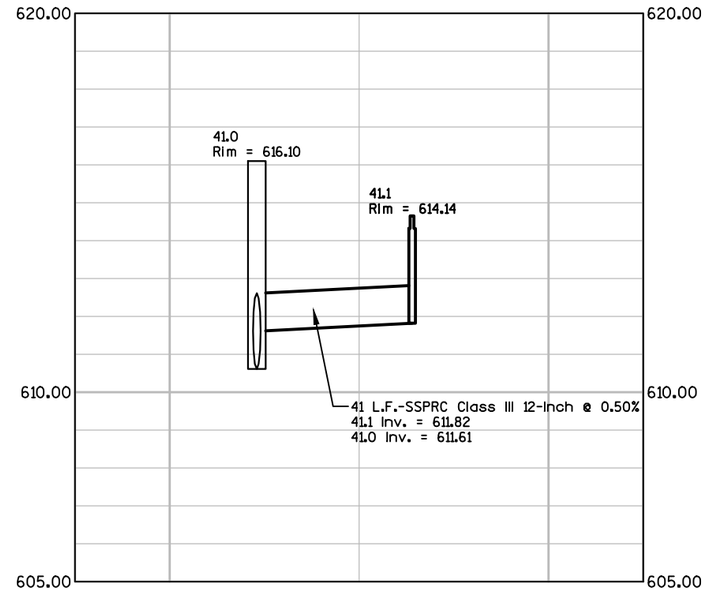


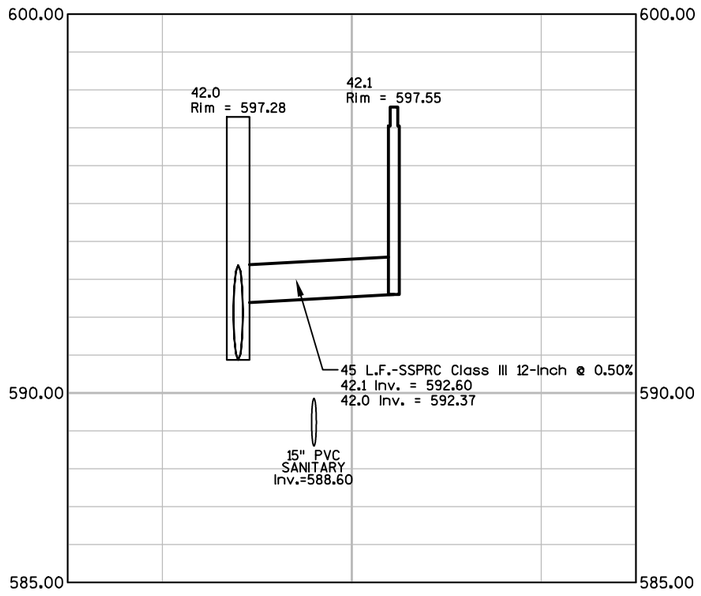


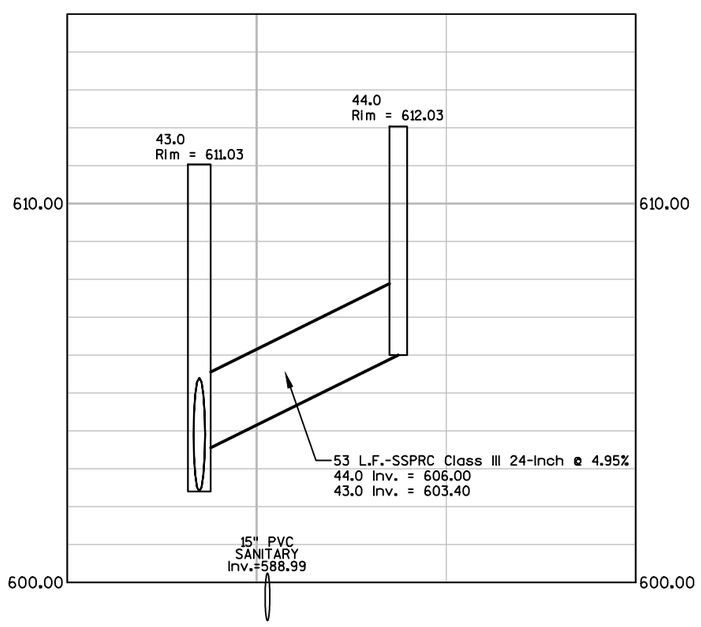
PROJECT NO:1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	STORM SEWER	SHEET 72	E











PROJECT NO:1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	STORM SEWER	SHEET 73	E

NOTE: SANITARY LATERALS SHALL BE 6" PVC (TYP)
WATER SERVICES SHALL BE 1" COPPER (TYP)
TAP & CORPORATION SHALL BE 1" (TYP)
WATER SERVICE VALVE & BOX SHALL BE 1" (TYP)

NOTE: REFER TO MISCELLANEOUS QUANTITY SHEETS FOR COMPLETE LISTING OF SANITARY AND WATER SERVICE LOCATIONS & QUANTITIES

1560010162
THOMAS CZERWONKA
1010 22ND ST.

CONNECT TO EXISTING SANITARY SEWER

LOW PERMEABILITY TRENCH PLUG REQUIRED
STA 33+25 AND 34+75
SANITARY SEWER AND WATER MAIN TRENCHES

PROPOSED STORM SEWER
(SEE STORM SEWER SHEETS)

EX 8",SAN

33+00

8" PVC SAN REO'D 34+00

35+00

MH SA22.1

36+00

MH SA23.2

37+00

8" PVC SAN REO'D

38+00

LINCOLN AVENUE (STH 42)

EX 8" WM

149 LF 12" D.I. WM REO'D

138 LF 12" PVC WM REO'D

359 LF 12"PVC WM REO'D

149 LF - POLYWRAPPED WATER MAIN
WITH FLUOROCARBON GASKETS REQUIRED
STA 33+26 TO 34+75, RT

PETROLEUM -CONTAMINATED SOIL
AND GROUNDWATER

CONNECT TO EXISTING WATER MAIN

STA 35+40 HYDRANT
& VALVE REO'D

1470011306
PATSY'S HWY 42 MOBIL
816 22ND ST

1470010609
MYRON BODART, JR.
2221 LINCOLN AVENUE

CONNECT TO EXISTING SANITARY SEWER

SEE SANITARY SEWER & WATER MAIN
INTERSECTION PROFILES FOR
CROSS-STREET UTILITY INFORMATION

EX 18" SAN

23RD STREET

EX 4" WM

SA 23.1 SANITARY MANHOLE
STA 36+02.65' LT
RIM = 587.47
E. INV = 582.74
DEPTH = 4.73'

MH SA23.1

CONNECT TO EXISTING WATER MAIN

8" VALVE & BOX REO'D

REMOVE VALVE & PIT

REMOVE SANITARY MANHOLE

PROPOSED 6-INCH SANITARY SERVICE
PROPOSED 1-INCH WATER SERVICE (TYP.)

REMOVE VALVE & PIT

REMOVE HYDRANT, LEAD, & VALVE

8" VALVE & BOX REO'D

REMOVE VALVE & PIT

CONNECT TO EXISTING WATER MAIN

EX 8" SAN

EX 6" WM

1560050216
ARTHUR A. ALLIE
2314 LINCOLN AVENUE

1560050(
SANDRA
2318 LI

1470021205
ADELINE SCHNEIDER, L.
828 23RD ST.

1470021107
GEORGE FRASCH
2305 LINCOLN AVENUE

1470021009
ROSE LECLAIR
2311 LINCOLN AVENUE

1470020901
DAVID LEE BIELY
2315 LINCOLN AVENUE

147002(
LORRA
2319 L

20 40 (HOR)
0 3 6 (VERT)

SANITARY SEWER AND WATER MAIN
PLANS AND DETAILS PREPARED BY:

WISCONSIN
SCOTT W.
AHL
E-32339
TWO RIVERS
WI
PROFESSIONAL ENGINEER
9-8-2016

SCALE

SA22.1 SANITARY MANHOLE
STA 35+45 C/L
RIM = 587.97
S. INV = 582.84
DEPTH = 5.13'

SA23.2 SANITARY MANHOLE
STA 36+65 C/L
RIM = 588.51
N. INV = 582.91
DEPTH = 5.60'

PROPOSED C/L PROFILE

MH SA 22.1

MH SA 23.2

STA 33+04
CONNECT TO
EXISTING 8"
PVC SAN. SEWER

PROPOSED STORM SEWER
(SEE STORM SEWER SHEETS)

242 LF 8" PVC SAN SEWER @ 0.29%

298 LF 8" PVC SAN SEWER @ 0.35%

PROPOSED 12" PVC WATER MAIN

PROPOSED 12" PVC WATER MAIN

PROPOSED WATER MAIN (12-INCH TYP)
MIN. 7.5' COVER

STA 33+26
CONNECT TO EXIST
W/ 12"x 12"x 12"REDUCER
INV 580.3 +/-

STA 35+40 16' RT
12"x 6" TEE W/ HYD.
6" VALVE & V.B.
INV 578.07

STA 35+82 16' RT
BRK IN GRD (VER)
INV 578.75

STA 36+13 16' RT
12"x 8" CROSS
INV 578.87

STA 36+19 16' RT
12" VALVE & V.B.
INV 578.87

STA 38+10 16' RT
45° BEND (HOR)
INV 579.15

STA 38+15 21' RT
45° BEND (HOR)
INV 579.15

594 588 582 576 570

32+50 33+00 33+50 34+00 34+50 35+00 35+50 36+00 36+50 37+00 37+50 38+00 38+50

PROJECT NO: 1470-18-72	HWY: WIS 42	COUNTY: MANITOWOC	SANITARY SEWER AND WATER MAIN: LINCOLN AVENUE	SHEET 74	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 41a

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NOTE: SANITARY LATERALS SHALL BE 6" PVC (TYP)
WATER SERVICES SHALL BE 1" COPPER (TYP)
TAP & CORPORATION SHALL BE 1" (TYP)
WATER SERVICE VALVE & BOX SHALL BE 1" (TYP)

NOTE: REFER TO MISCELLANEOUS QUANTITY SHEETS FOR COMPLETE LISTING OF SANITARY AND WATER SERVICE LOCATIONS & QUANTITIES

N

24TH STREET

25TH STREET

LINCOLN AVENUE (STH 42)

CONNECT TO EXISTING WATER MAIN
8" VALVE & BOX REQ'D
REMOVE VALVE & PIT
REMOVE & REPLACE SAN. MH
REMOVE SANITARY MANHOLE
PROPOSED 6-INCH SANITARY SERVICE
PROPOSED 1-INCH WATER SERVICE (TYP.)
PROPOSED STORM SEWER (SEE STORM SEWER SHEETS)
CONNECT TO EXISTING SANITARY SEWER
REMOVE & REPLACE SAN. MH
CONNECT TO EXISTING WATER MAIN
8" VALVE & BOX REQ'D
REMOVE VALVE & PIT
39+00
8" PVC SAN REQ'D
MH SA24
40+00
41+00
10" PVC SAN REQ'D
42+00
43+00
MH SA25
44+00
363 LF 12" PVC WM REQ'D
STA 39+22 HYDRANT & VALVE REQ'D
REMOVE VALVE & PIT
REMOVE HYDRANT, LEAD, & VALVE
8" VALVE & BOX REQ'D
CONNECT TO EXISTING SANITARY SEWER
CONNECT TO EXISTING WATER MAIN
REMOVE VALVE & PIT
CONNECT TO EXISTING WATER MAIN
STA 43+30: EXIST. HYDRANT TO REMAIN
SEE SANITARY SEWER & WATER MAIN INTERSECTION PROFILES FOR CROSS-STREET UTILITY INFORMATION

EX 12" WM
EX 8" SAN
EX 15" SAN
EX 6" WM
EX 10" SAN
EX 8" WM

1560050118 LEONARD E. LESPERANCE 2320 LINCOLN AVENUE
1560062016 WILLIAM G. SCHWERMA 1000 24TH ST.
1560060223 SHANE D. FRISCH 2404 LINCOLN AVENUE
1560060214 NORBET F. VOHWINKEL 2410 LINCOLN AVENUE
1560060125 GENIE VARNEY 2412 LINCOLN AVENUE
1380012029 SUSAN E. DEKOK 2420 LINCOLN AVENUE
1380012010 CONRAD SWIGGUM 1002 25TH ST.
DORIS L. EURICH 2504 LINCOLN AVENUE
1470020705 NANCY KAKES 2321 LINCOLN AVENUE
1470031007 CANDICE WEBERSKI 2403 LINCOLN AVENUE
1470030909 PATRICK BAGNALL 2407 LINCOLN AVENUE
1470030801 ROBERT J. HELGANS, JR. 2409 LINCOLN AVENUE
1470030703 JOHN E. RUETHER 2413 LINCOLN AVENUE
1470030605 MICHELLE SHAMBUREK 827 25TH ST.
SCOTT LOUCKS 828 25TH ST.
BRIAN L. 2505 LIN

SCALE 0 3 6 (VERT) 20 40 (HOR)

SA24 SANITARY MANHOLE
STA 39+63.3 C/L
RIM = 588.95
N. INV = 581.84
S. INV = 581.86
E. INV = 583.4
DEPTH = 7.11'

SA25 SANITARY MANHOLE
STA 43+23 C/L
RIM = 588.63
N. INV = 580.88
S. INV = 580.84
E. INV = 581.0
W. INV = 580.82
DEPTH = 7.81'

PROPOSED C/L PROFILE
PROPOSED STORM SEWER (SEE STORM SEWER SHEETS)
8" SAN
360 LF 10" PVC SAN SEWER @ 0.28%
361 LF 15" PVC SAN SEWER @ 0.58%
PROPOSED 12" PVC WATER MAIN
PROPOSED WATER MAIN (12-INCH TYP) (363')
MIN. 7.5' COVER

STA 39+12 20' RT 12"x6" TEE & HYD., 6" VALVE & V.B. INV 579.30
STA 39+72 20' RT 12"x12" CROSS INV 579.30
STA 39+80 20' RT 12" VALVE & V.B. INV 579.30
STA 39+85 20' RT 22 1/2° BEND (HOR) INV 579.50
STA 39+95 16' RT 22 1/2° BEND (HOR) INV 579.30
STA 40+17 16' RT DEFLECTION (HOR) INV 579.30
STA 40+40 20' RT DEFLECTION (HOR) INV 579.30
STA 43+00 20' RT BRK IN GRD (VER) INV 578.50
STA 43+35 20' RT 12"x8" CROSS INV 578.50
STA 43+39 20' RT 12" VALVE & V.B. INV 578.62
STA 44+00 20' RT BRK IN GRD (VER) INV 580.45

594 588 582 576 570

38+50 39+00 39+50 40+00 40+50 41+00 41+50 42+00 42+50 43+00 43+50 44+00 44+50

PROJECT NO: 1470-18-72	HWY: WIS 42	COUNTY: MANITOWOC	SANITARY SEWER AND WATER MAIN: LINCOLN AVENUE	SHEET 75	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 41a

I:\DGN\PLANS\WisDOT\Lincoln_22_35\UtilityPlans\023002_up.dgn 9/9/2016 8:00:57 AM SCALE = 40.0000 sf / in.

2

1380011921
MARY GRAMS
2510 LINCOLN AVENUE

1380010316
LINDA M. DAMROW
2514 LINCOLN AVENUE

1380010129
FLOYD M. LAWLER
2422 LINCOLN AVENUE

1380061920
DENNIS D. NOOKER
2602 LINCOLN AVENUE

1380062019
BLAINE & SALOME WALESH
2608 LINCOLN AVENUE

1380060100
GERALD W. MESSMAN
2618 LINCOLN AVENUE

EX 6" WM
26TH STREET

27TH STREET

N

CONNECT TO EXISTING WATER MAIN
8" VALVE & BOX REQ'D
REMOVE VALVE & PIT
REMOVE & REPLACE SAN. MH
PROPOSED 6-INCH SANITARY SERVICE
PROPOSED 1-INCH WATER SERVICE (TYP.)
REMOVE & REPLACE SAN. MH
PROPOSED STORM SEWER
(SEE STORM SEWER SHEETS)

45+00 | 46+00 | 47+00 | 48+00 | 49+00 | 50+00

15" PVC SAN REQ'D
MH SA26
15" PVC SAN REQ'D
LINCOLN AVENUE (STH 42)
MH SA27

360 LF 12" PVC WM REQ'D
358 LF 12" PVC WM REQ'D

8" SAN

REMOVE VALVE & PIT
LIMIT EXCAVATION FOR SERVICE LATERAL CONNECTIONS TO AVOID DAMAGE TO PRIVATELYOWNED LANDSCAPING/BRICK PAVER PATIO

STA 46+42 HYDRANT & VALVE REQ'D
CONNECT TO EXISTING SANITARY SEWER
EX 8" SAN
EX 6" WM
REMOVE HYDRANT, LEAD, & VALVE
8" VALVE & BOX REQ'D
CONNECT TO EXISTING WATER MAIN
STA 50+00 HYDRANT & VALVE REQ'D
CONNECT TO EXISTING SANITARY SEWER

1470040307
MCDANIEL
LINCOLN AVENUE

1470040809
DANIEL MILLER
2509 LINCOLN AVENUE

1470040701
JEROME LEGREVE
2513 LINCOLN AVENUE

1470051002
JANET PARMA
2517 LINCOLN AVENUE

1470050904
PATRICIA PIETROSKE
2607 LINCOLN AVENUE

1470050806
JEAN ZAHORIK
2611 LINCOLN AVENUE

1470050708
ELIZABETH BLAXER
2615 LINCOLN AVENUE

DONALD J. KUBEC
2617 LINCOLN AVENUE

0 3 6 20 40 (HOR)
SCALE
(VERT)

NOTE: SANITARY LATERALS SHALL BE 6" PVC (TYP)
WATER SERVICES SHALL BE 1" COPPER (TYP)
TAP & CORPORATION SHALL BE 1" (TYP)
WATER SERVICE VALVE & BOX SHALL BE 1" (TYP)

SEE SANITARY SEWER & WATER MAIN INTERSECTION PROFILES FOR CROSS-STREET UTILITY INFORMATION

NOTE: REFER TO MISCELLANEOUS QUANTITY SHEETS FOR COMPLETE LISTING OF SANITARY AND WATER SERVICE LOCATIONS & QUANTITIES

SA26 SANITARY MANHOLE
STA 46+84.1 C/L
RIM = 591.70
N. INV = 583.01
S. INV = 582.97
E. INV = 583.05
DEPTH = 8.73'

SA27 SANITARY MANHOLE
STA 50+41.8 C/L
RIM = 593.13
N. INV = 584.44
S. INV = 584.40
E. INV = 584.7
DEPTH = 8.73'

PROPOSED C/L PROFILE
PROPOSED STORM SEWER
(SEE STORM SEWER SHEETS)
350 LF 15" PVC SAN SEWER @ 0.39%
PROPOSED 12" PVC WATER MAIN
PROPOSED 12" PVC WATER MAIN
PROPOSED WATER MAIN (12-INCH TYP)
MIN. 7.5' COVER

STA 44+86 20'RT
DEFLECTION (HOR)
INV 581.26

STA 45+11 15'RT
DEFLECTION (HOR)
INV 581.49

STA 45+19 15'RT
DEFLECTION (HOR)
INV 581.57

STA 45+52 20'RT
DEFLECTION (HOR)
INV 581.88

STA 46+42 20'RT
12"X 6"TEE,HYD.,
6"VALVE & V.B.
INV 582.72

STA 46+78 20'RT
BRK IN GRD(VER)
INV 580.65

STA 46+95 20'RT
12"X 8"CROSS
INV 580.65

STA 47+00 20'RT
12"VALVE & V.B.
INV 580.65

STA 47+80 20'RT
BRK IN GRD(VER)
INV 583.50

STA 50+00 20'RT
12"X 6"TEE,HYD.,
6"VALVE & V.B.
INV 584.30

STA 50+33 20'RT
BRK IN GRD(VER)
INV 584.40

STA 50+38 20'RT
BRK IN GRD(VER)
INV 582.00

50+00

594 | 588 | 582 | 576 | 570

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

PROJECT NO: 1470-18-72	HWY: WIS 42	COUNTY: MANITOWOC	SANITARY SEWER AND WATER MAIN: LINCOLN AVENUE	SHEET 76	E

NOTE: SANITARY LATERALS SHALL BE 6" PVC (TYP)
WATER SERVICES SHALL BE 1" COPPER (TYP)
TAP & CORPORATION SHALL BE 1" (TYP)
WATER SERVICE VALVE & BOX SHALL BE 1" (TYP)

NOTE: REFER TO MISCELLANEOUS QUANTITY SHEETS FOR COMPLETE LISTING OF SANITARY AND WATER SERVICE LOCATIONS & QUANTITIES

27TH STREET

28TH STREET

LINCOLN AVENUE (STH 42)

1380072017
EUGENE A. KAPLA
2704 LINCOLN AVENUE

1380122008
CLEM BECKER INC.
2806 LINCOLN AVENUE

1380120
JOHN H
2822 L

1470061000
STEVEN KAKES
828 27TH ST.

1470060902
RONALD J. LUTZ
2711 LINCOLN AVENUE

1470060804
RONALD J. LUTZ
2711 LINCOLN AVENUE

1470060706
ELAINE D. KRIZEK
2713 LINCOLN AVENUE

1470060608
PAUL SIMONAR
825 28TH ST.

PAUL SIMONAR
828 28TH ST.

1470070893
THOMAS J. TERP
2809 LINCOLN AVENUE

1470070679
LEONARD P. HENRICKSON
2819 LINCOLN AVENUE

8" VALVE & BOX REQ'D
REMOVE VALVE & PIT
REMOVE & REPLACE SAN. MH
PROPOSED 6-INCH SANITARY SERVICE
PROPOSED 1-INCH WATER SERVICE (TYP.)
CONNECT TO EXISTING WATER MAIN
REMOVE VALVE & PIT
REMOVE HYDRANT, LEAD, & VALVE
PROPOSED STORM SEWER (SEE STORM SEWER SHEETS)
51+00
52+00
15" PVC SAN REQ'D
53+00
MH SA28
54+00
15" PVC SAN REQ'D
55+00
56+00
335 LF 12" PVC WM REQ'D
337 LF 12" PVC WM REQ'D
8" SAN
8" WM
EX 6" WM
EX 8" SAN
REMOVE HYDRANT, LEAD, & VALVE
STA 53+38 HYDRANT & VALVE REQ'D
MH SA28.1
REMOVE VALVE & PIT
REMOVE VALVE & PIT
CONNECT TO EXISTING SANITARY SEWER
8" VALVE & BOX REQ'D
CONNECT TO EXISTING WATER MAIN
8" VALVE & BOX REQ'D
SEE SANITARY SEWER & WATER MAIN INTERSECTION PROFILES FOR CROSS-STREET UTILITY INFORMATION
20
40 (HOR)
0
3
6 (VERT)
SCALE

SA28 SANITARY MANHOLE
STA 53+77.8 C/L
RIM = 595.76
N. INV = 586.42
S. INV = 586.38
E. INV = 586.59
DEPTH = 9.38'

SA28.1 SANITARY MANHOLE
STA 53+77.8 55' RT
RIM = 596.0
W. INV = 586.90
E. INV = 588.0
DEPTH = 9.1'

PROPOSED C/L PROFILE
PROPOSED STORM SEWER (SEE STORM SEWER SHEETS)
PROPOSED WATER MAIN (12-INCH TYP) MIN. 7.5' COVER
PROPOSED 12" PVC WATER MAIN
336 LF 15" PVC SAN SEWER @ 0.58%
PROPOSED 12" PVC WATER MAIN
334 LF 15" PVC SAN SEWER @ 0.97%

597
591
585
579
573

STA 50+53 20' RT
12"X 8"CROSS
INV 582.0

STA 50+57 20' RT
BRK IN GRD(VER)
INV 582.0

STA 50+66 23' RT
BRK IN GRD(VER)
INV 584.40

STA 50+88 23' RT
12" VALVE & V.B.
INV 584.66

STA 50+95 23' RT
BRK IN GRD(HOR)
INV 584.75

STA 51+35 20' RT
BRK IN GRD(HOR)
INV 585.2

STA 53+25 20' RT
BRK IN GRD(VER)
INV 587.67

STA 53+38 20' RT
12"X 6" TEE+HYD.
6" VALVE & V.B.
INV 587.77

STA 53+72 20' RT
BRK IN GRD(HOR)
INV 588.0

STA 53+88 21' RT
12"X 8"CROSS
INV 588.10

STA 53+92 21' RT
12" VALVE & V.B.
INV 588.13

STA 54+12 23' RT
BRK IN GRD(HOR)
INV 588.13

STA 54+32 23' RT
BRK IN GRD(HOR)
INV 588.13

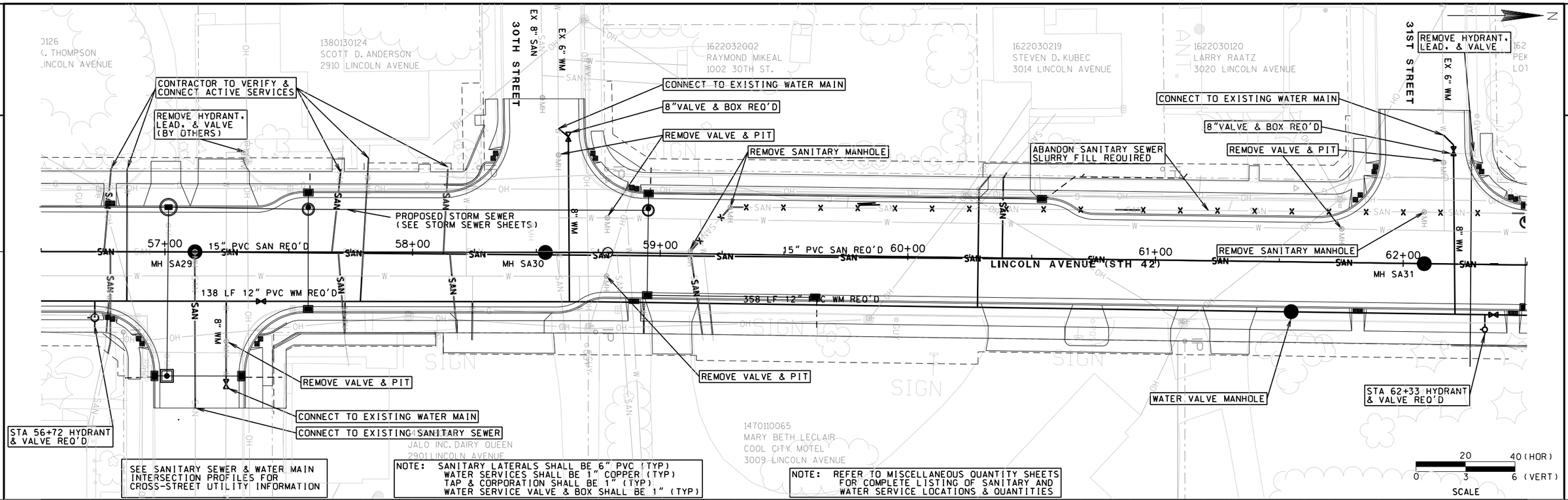
STA 54+50 21.5' RT
BRK IN GRD (VER)
INV 588.13

STA 54+72 20' RT
BRK IN GRD(HOR)
INV 588.31

50+50
51+00
51+50
52+00
52+50
53+00
53+50
54+00
54+50
55+00
55+50
56+00
56+50

PROJECT NO: 1470-18-72	HWY: WIS 42	COUNTY: MANITOWOC	SANITARY SEWER AND WATER MAIN: LINCOLN AVENUE	SHEET 77	E

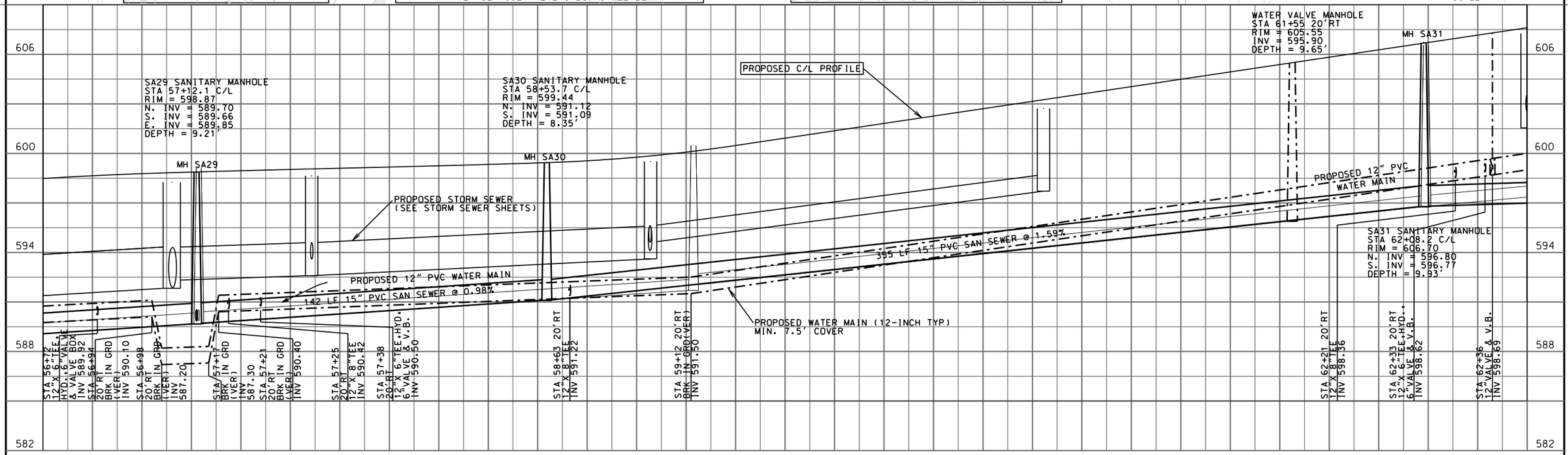
2



SEE SANITARY SEWER & WATER MAIN INTERSECTION PROFILES FOR CROSS-STREET UTILITY INFORMATION

NOTE: SANITARY LATERALS SHALL BE 6" PVC (TYP)
WATER SERVICES SHALL BE 1" COPPER (TYP)
TAP & CORPORATION SHALL BE 1" (TYP)
WATER SERVICE VALVE & BOX SHALL BE 1" (TYP)

NOTE: REFER TO MISCELLANEOUS QUANTITY SHEETS FOR COMPLETE LISTING OF SANITARY AND WATER SERVICE LOCATIONS & QUANTITIES



PROJECT NO: 1470-18-72	HWY: WIS 42	COUNTY: MANITOWOC	SANITARY SEWER AND WATER MAIN: LINCOLN AVENUE	SHEET 78 E

2

2311980
LARSKE PROPERTIES
NW CORNER OF 31ST ST

1622011891
PEKARSKE PROPERTIES
3108 LINCOLN AVENUE

1622010118
PEKARSKE PROPERTIES
3116 LINCOLN AVENUE

1623010749
LIGHTHOUSE ASSEMBLY
3204 LINCOLN AVENUE

1623010239
LEE WALOTKIEWICZ
3222 LINCOLN AVENUE

N

NOTE: SANITARY LATERALS SHALL BE 6" PVC (TYP)
WATER SERVICES SHALL BE 1" COPPER (TYP)
TAP & CORPORATION SHALL BE 1" (TYP)
WATER SERVICE VALVE & BOX SHALL BE 1" (TYP)

NOTE: REFER TO MISCELLANEOUS QUANTITY SHEETS FOR COMPLETE LISTING OF SANITARY AND WATER SERVICE LOCATIONS & QUANTITIES

ABANDON SANITARY SEWER
SLURRY FILL REQUIRED

REMOVE SANITARY MANHOLE

PROPOSED 6-INCH SANITARY SERVICE
PROPOSED 1-INCH WATER SERVICE (TYP.)

PROPOSED STORM SEWER
(SEE STORM SEWER SHEETS)

63+00 15" PVC SAN REQ'D 64+00 65+00 66+00 67+00 15" PVC SAN REQ'D 68+00

MH SA32

LINCOLN AVENUE (STH 42)

722 LF 12" PVC WM REQ'D

STA 65+05 HYDRANT
& VALVE REQ'D

2312030001
MARTIN D. FREDENBERG
3109 LINCOLN AVENUE

2312030305
GTE TELEPHONE
3203 LINCOLN AVENUE

SEE SANITARY SEWER & WATER MAIN
INTERSECTION PROFILES FOR
CROSS-STREET UTILITY INFORMATION

0 3 6 (VERT) 20 40 (HOR)
SCALE

SA32 SANITARY MANHOLE
STA 65+66.8 C/L
RIM = 610.63
N. INV = 598.63
S. INV = 598.43
DEPTH = 12.20'

MH SA32

PROPOSED C/L PROFILE

PROPOSED STORM SEWER
(SEE STORM SEWER SHEETS)

12.00in Circular PVC 0.28%

PROPOSED 12" PVC WATER MAIN

359 LF 15" PVC SAN SEWER @ 0.45%

362 LF 15" PVC SAN SEWER @ 0.25%

PROPOSED WATER MAIN (12-INCH TYP)
MIN. 7.5' COVER

STA 63+90 20'RT
BRK IN GRD(VER)
INV 601.20

STA 65+05 20'RT
12"x 6"TEE-HYD.,
6"VALVE & V.B.
INV 601.52

STA 65+35 20'RT
BRK IN GRD(VER)
INV 601.60

STA 65+43 20'RT
BRK IN GRD(VER)
INV 597.50

STA 65+54 20'RT
BRK IN GRD(VER)
INV 597.50

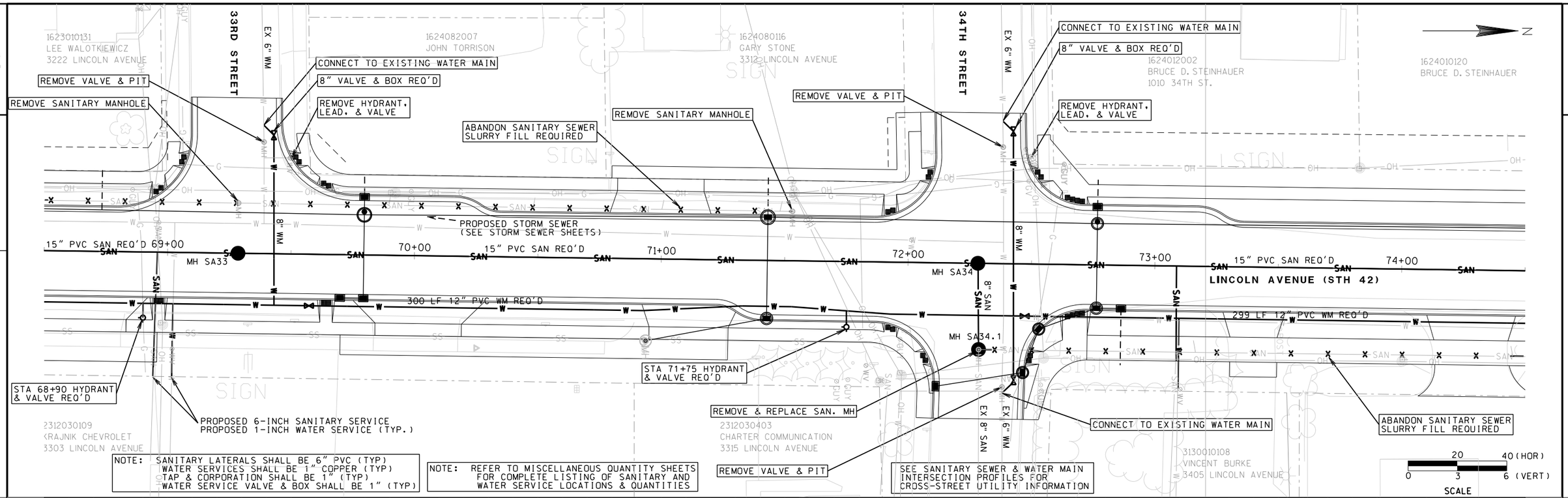
STA 65+65 20'RT
BRK IN GRD(VER)
INV 600.20

STA 66+11 20'RT
12"VALVE & V.B.
INV 600.71

612 606 600 594 588

62+50 63+00 63+50 64+00 64+50 65+00 65+50 66+00 66+50 67+00 67+50 68+00 68+50

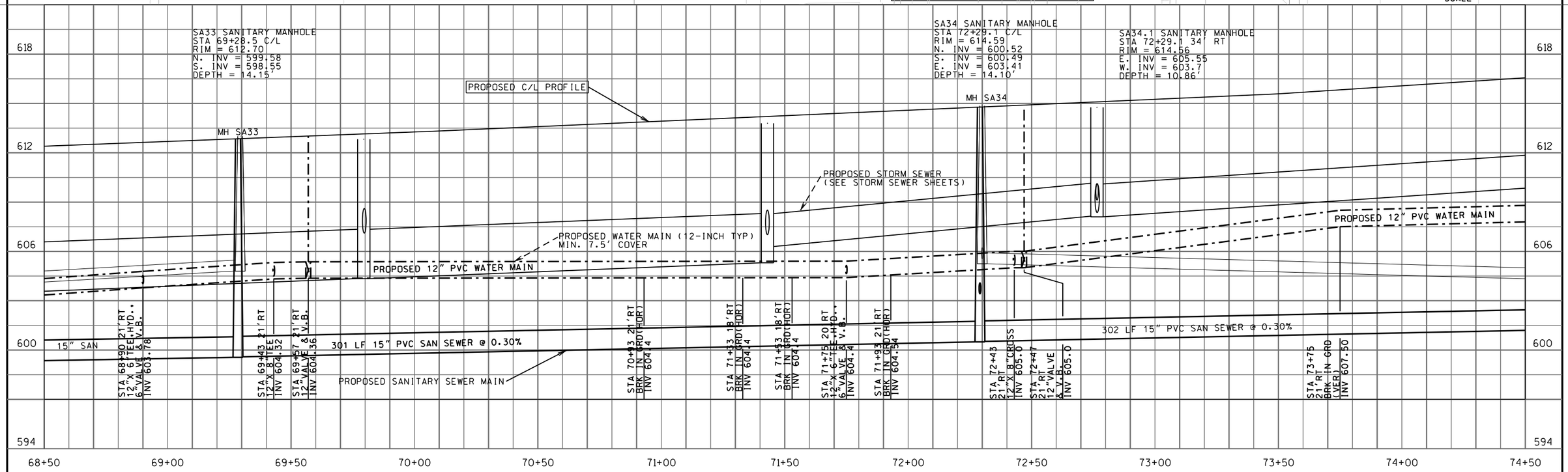
PROJECT NO: 1470-18-72	HWY: WIS 42	COUNTY: MANITOWOC	SANITARY SEWER AND WATER MAIN: LINCOLN AVENUE	SHEET 79	E



NOTE: SANITARY LATERALS SHALL BE 6" PVC (TYP)
WATER SERVICES SHALL BE 1" COPPER (TYP)
TAP & CORPORATION SHALL BE 1" (TYP)
WATER SERVICE VALVE & BOX SHALL BE 1" (TYP)

NOTE: REFER TO MISCELLANEOUS QUANTITY SHEETS FOR COMPLETE LISTING OF SANITARY AND WATER SERVICE LOCATIONS & QUANTITIES

SEE SANITARY SEWER & WATER MAIN INTERSECTION PROFILES FOR CROSS-STREET UTILITY INFORMATION



PROJECT NO: 1470-18-72	HWY: WIS 42	COUNTY: MANITOWOC	SANITARY SEWER AND WATER MAIN: LINCOLN AVENUE	SHEET 80	E

NOTE: REFER TO MISCELLANEOUS QUANTITY SHEETS FOR COMPLETE LISTING OF SANITARY AND WATER SERVICE LOCATIONS & QUANTITIES

NOTE: SANITARY LATERALS SHALL BE 6" PVC (TYP)
WATER SERVICES SHALL BE 1" COPPER (TYP)
TAP & CORPORATION SHALL BE 1" (TYP)
WATER SERVICE VALVE & BOX SHALL BE 1" (TYP)

SEE SANITARY SEWER & WATER MAIN INTERSECTION PROFILES FOR CROSS-STREET UTILITY INFORMATION

35TH STREET

35TH PLACE

3090010603
LARIS VALDRE
1448 TERRACE COURT

3090010505
TIMOTHY LOHR
1005 35TH PLACE

2361010011
STREU CONSTRUCTION COMP
3612 LINCOLN AVENUE

8" PLUG REQ'D

CONNECT TO EXISTING SANITARY SEWER

CONNECT TO EXISTING WATER MAIN

EX 8" WM

EX 8" SAN

PI 78+80.40

8" WM

8" SAN

PROPOSED STORM SEWER
(SEE STORM SEWER SHEETS)

15" PVC SAN REQ'D 75+00

MH SA35

76+00

15" PVC SAN REQ'D

77+00

78+00

79+00

80+00

MH SA35.1

INCOLN AVENUE (STH 42)

ABANDON SANITARY SEWER
SLURRY FILL REQUIRED

360 LF 12" PVC WM REQ'D

EX 8" WM

MH SA35.2

EX 8" SAN

REMOVE SANITARY MANHOLE

REMOVE HYDRANT, LEAD, & VALVE

PROPOSED 6-INCH SANITARY SERVICE
PROPOSED 1-INCH WATER SERVICE (TYP.)

STA 75+65 HYDRANT & VALVE REQ'D

ABANDON SANITARY SEWER
SLURRY FILL REQUIRED

REMOVE VALVE & PIT

REMOVE SANITARY MANHOLE

CONNECT TO EXISTING SANITARY SEWER

CONNECT TO EXISTING WATER MAIN

SCALE 0 3 6 (VERT) 20 40 (HOR)

2312020557
BRUCE MOFFATT
STORAGE UNITS
3501 LINCOLN AVENUE

2312020209
TWO RIVERS BUSES INC.
3515 LINCOLN AVENUE

2312020405
BRUCE MOFFATT
3601 LINCOLN AVENUE

PROPOSED C/L PROFILE

MH SA35

MH SA35.1

SA35.2 SANITARY MANHOLE
STA 79+61.2 C/L
RIM = 616.71
N. INV = 602.96
S. INV = 602.93
DEPTH = 13.78'

MH SA35.2

SA35.1 SANITARY MANHOLE
STA 78+89.1 C/L
RIM = 619.19
N. INV = 602.57
S. INV = 602.54
DEPTH = 16.65'

PROPOSED STORM SEWER
(SEE STORM SEWER SHEETS)

PROPOSED 12" PVC WATER MAIN

PROPOSED WATER MAIN (12-INCH TYP)
MIN. 7.5' COVER

72 LF 15" PVC SAN @ 0.50%

15" SAN

359 LF 15" PVC SAN @ 0.30%

PROPOSED SANITARY SEWER MAIN

SA35 SANITARY MANHOLE
STA 75+30.7 C/L
RIM = 617.09
N. INV = 601.46
S. INV = 601.43
DEPTH = 15.66'

STA 75+42
21° RT
12"X 8" TEE
INV 608.15

STA 75+52
12" VALVE & V.B.
INV 608.30

STA 75+65.21 RT
12"X 6" TEE HD.
6" VALVE & V.B.
INV 608.49

STA 76+00
21° RT
BRK IN GRD
INVERT
INV 609.00

STA 79+02.22 RT
12"X 8" TEE
INV 610.71

STA 79+36.22 RT
12" VALVE & V.B.
INV 610.92

STA 79+46.22 RT
2-45° BENDS(HOR)
INV 610.98

STA 79+50.29 RT
CONNECT TO EXIST
INV 611.0V +/-

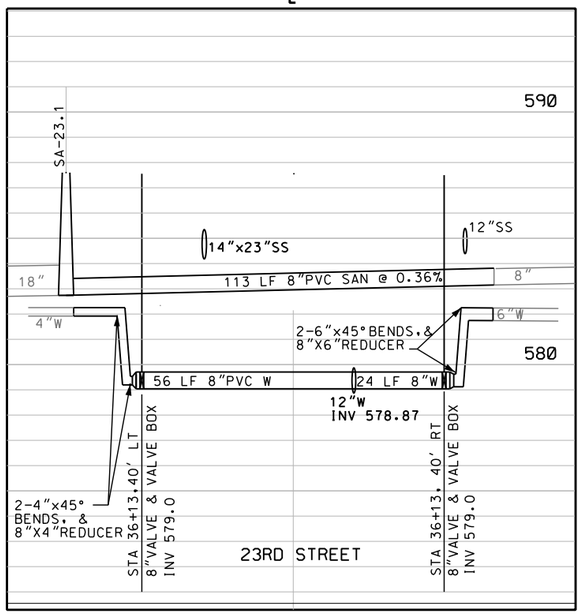
618 612 606 600 594

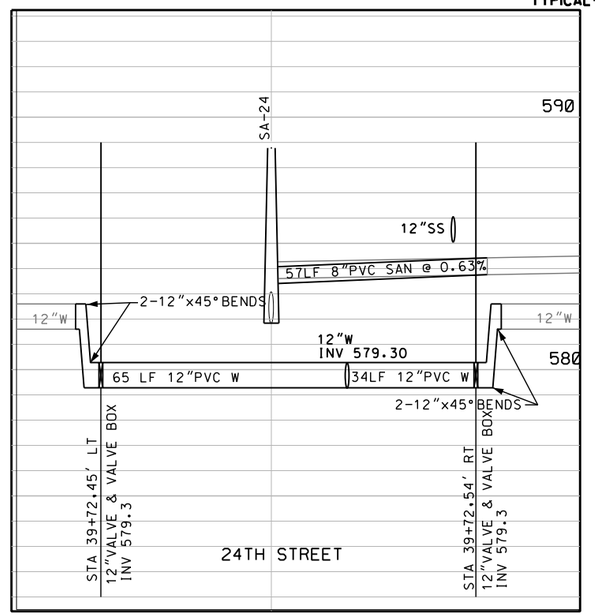
74+50 75+00 75+50 76+00 76+50 77+00 77+50 78+00 78+50 79+00 79+50 80+00 80+50

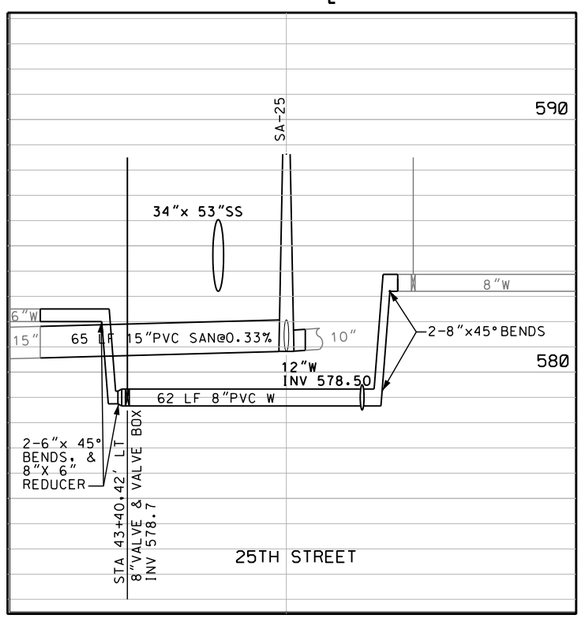
PROJECT NO: 1470-18-72	HWY: WIS 42	COUNTY: MANITOWOC	SANITARY SEWER AND WATER MAIN: LINCOLN AVENUE	SHEET 81	E

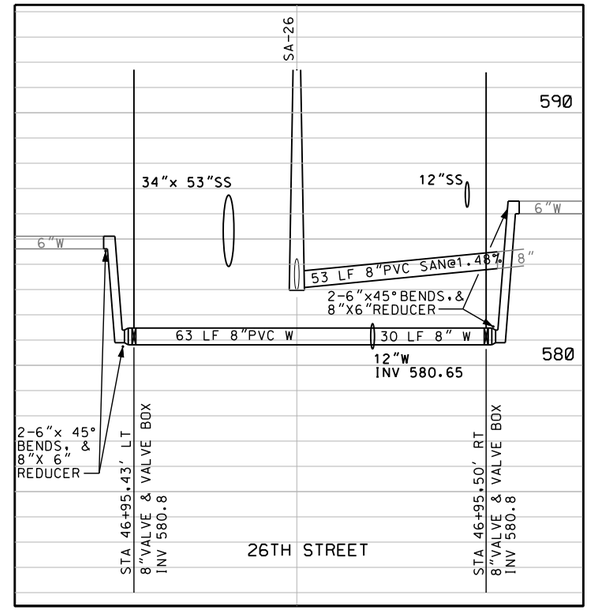
SCALE, FEET 0 20 40 (3 6)

TYPICAL-ALL SECTIONS SHOWN THIS SHEET









PROJECT NO: 1470-18-72	HWY: WIS 42	COUNTY: MANITOWOC	SANITARY SEWER & WATER MAIN - INTERSECTION PROFILES	SHEET 82	E

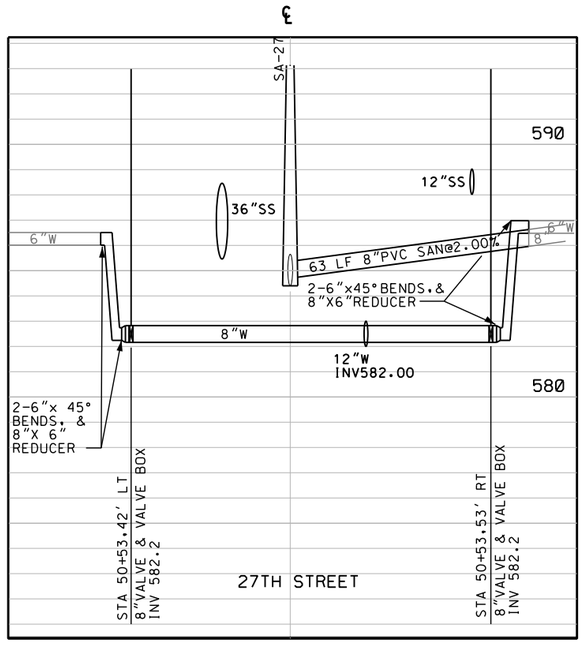
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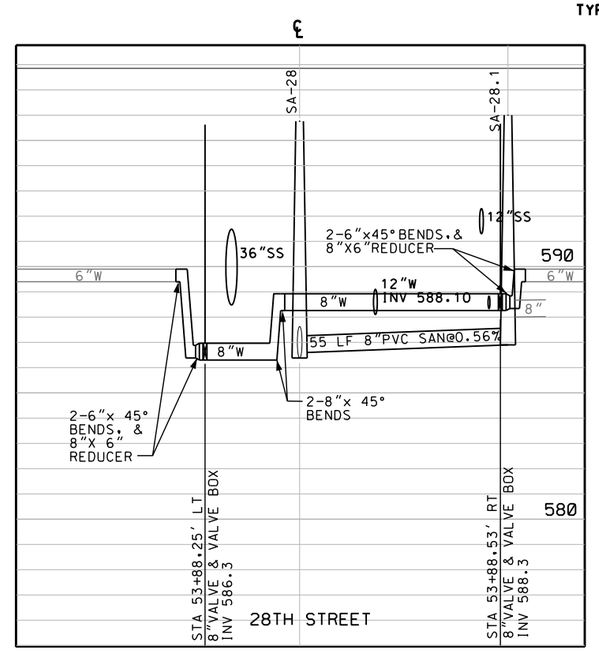
WISDOT/CADDS SHEET 35

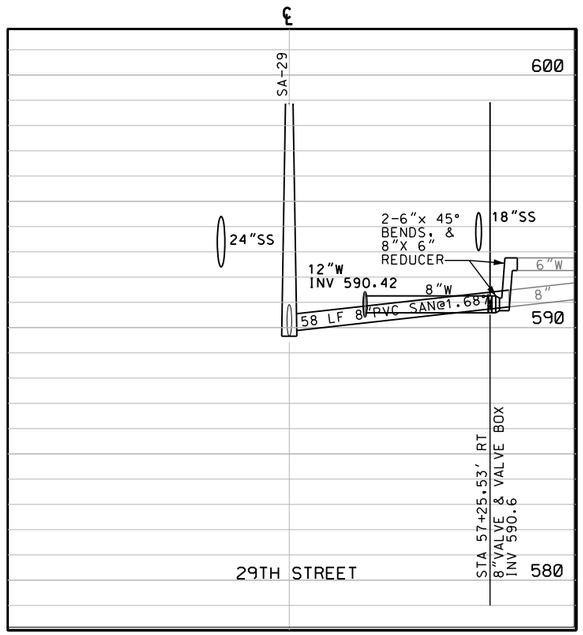
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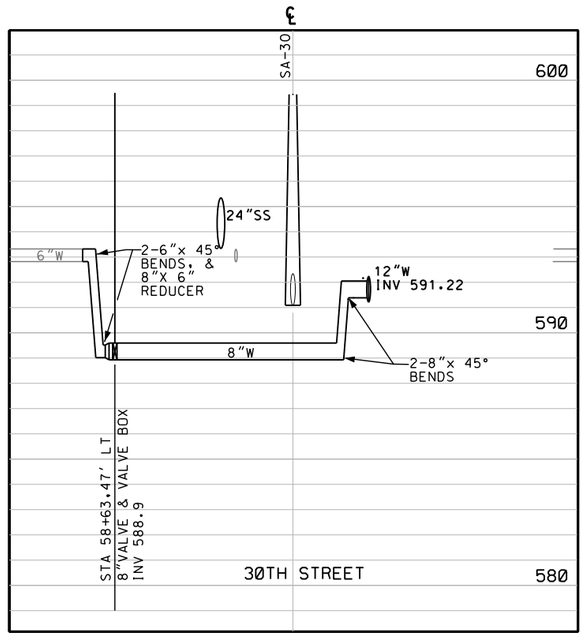
SCALE, FEET 0 20 40 (3 6)

TYPICAL-ALL SECTIONS SHOWN THIS SHEET









PROJECT NO: 1470-18-72	HWY: WIS 42	COUNTY: MANITOWOC	SANITARY SEWER & WATER MAIN - INTERSECTION PROFILES	SHEET 83	E

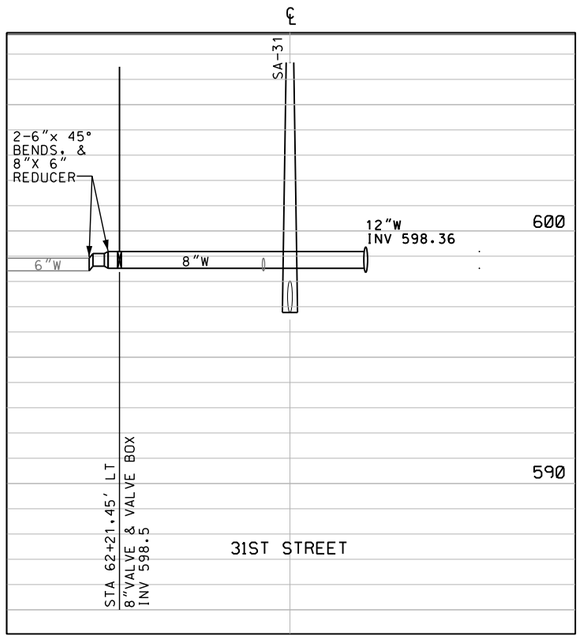
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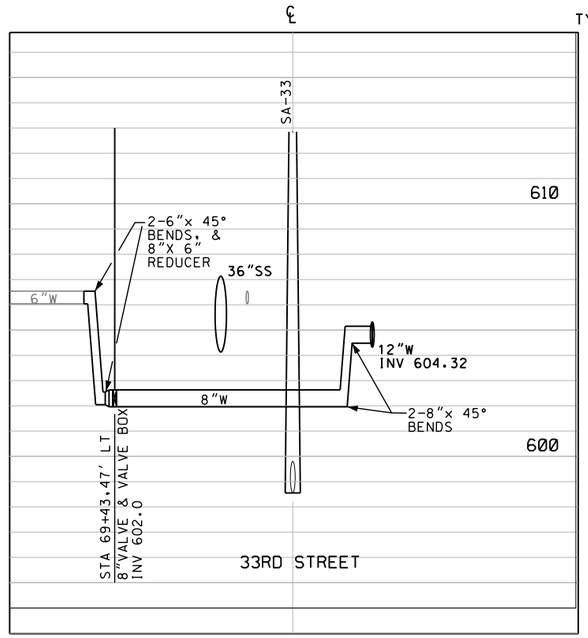
WISDOT/CADDS SHEET 35

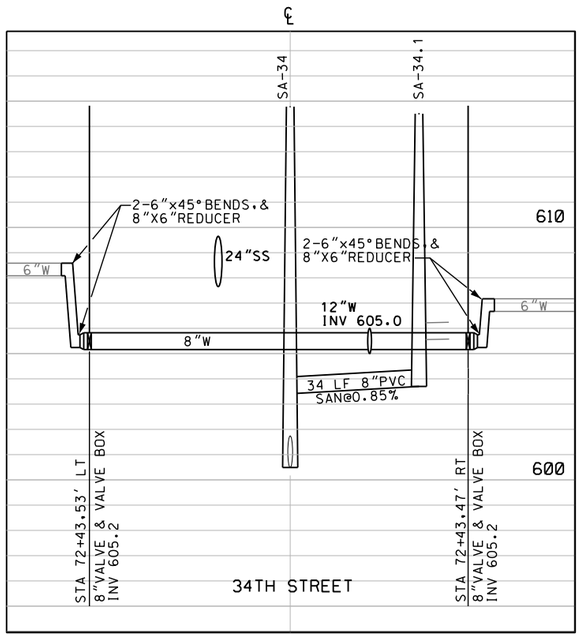
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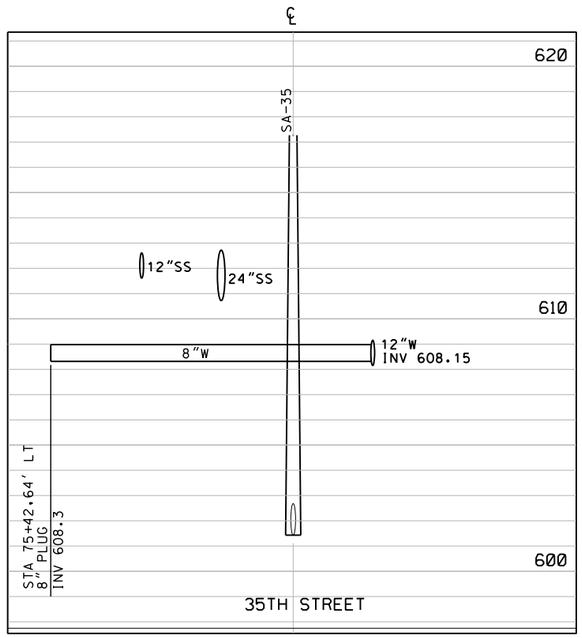
SCALE, FEET 0 20 40 (3 6)

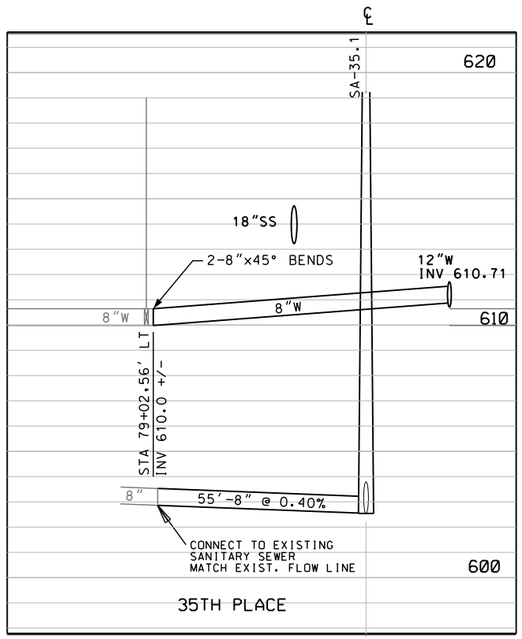
TYPICAL-ALL SECTIONS SHOWN THIS SHEET











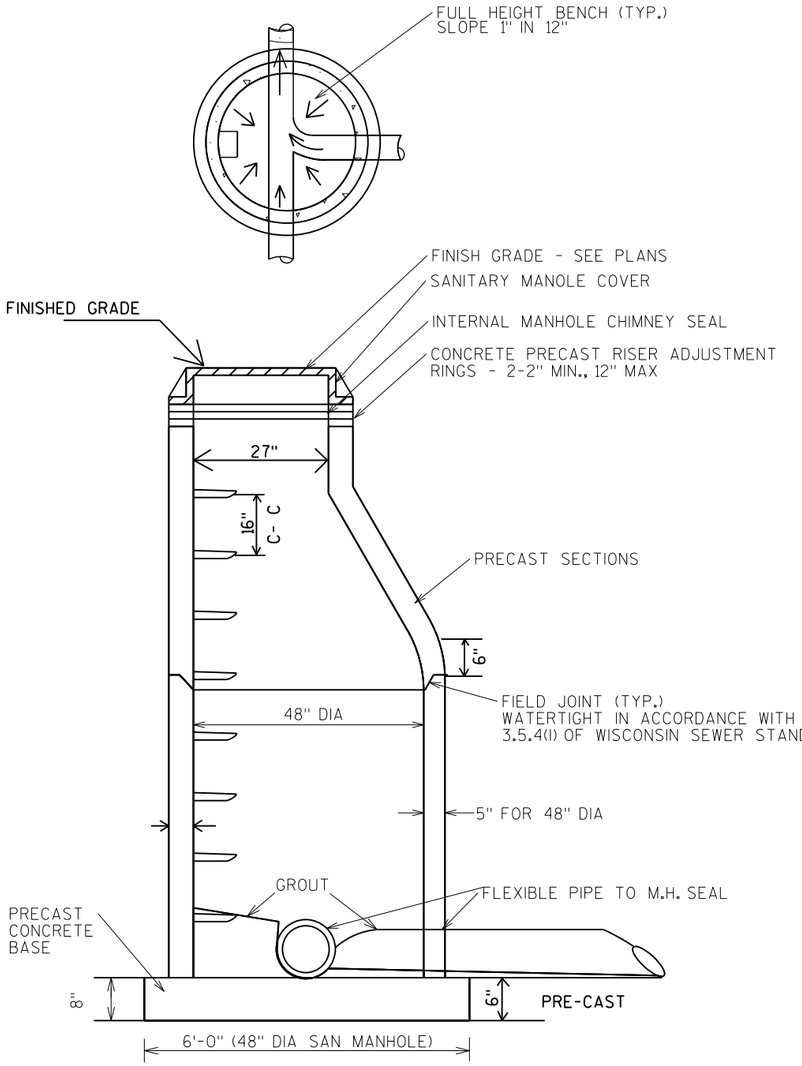
PROJECT NO: 1470-18-72	HWY: WIS 42	COUNTY: MANITOWOC	SANITARY SEWER & WATER MAIN - INTERSECTION PROFILES	SHEET 84	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

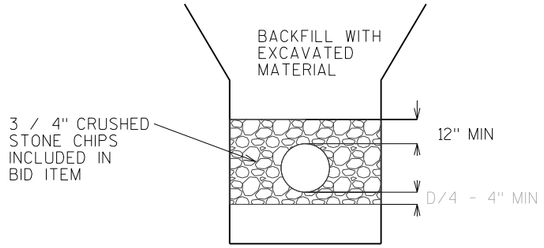
WISDOT/CADDS SHEET 35

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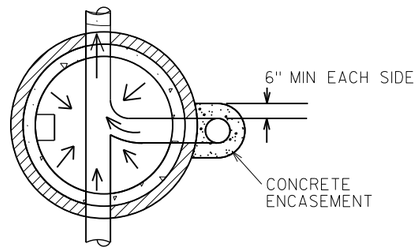
2

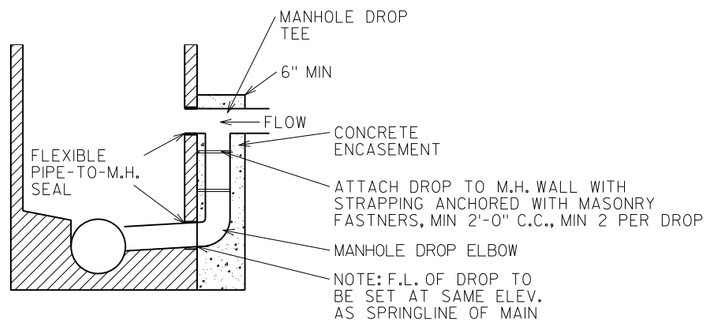


STANDARD SANITARY MANHOLE

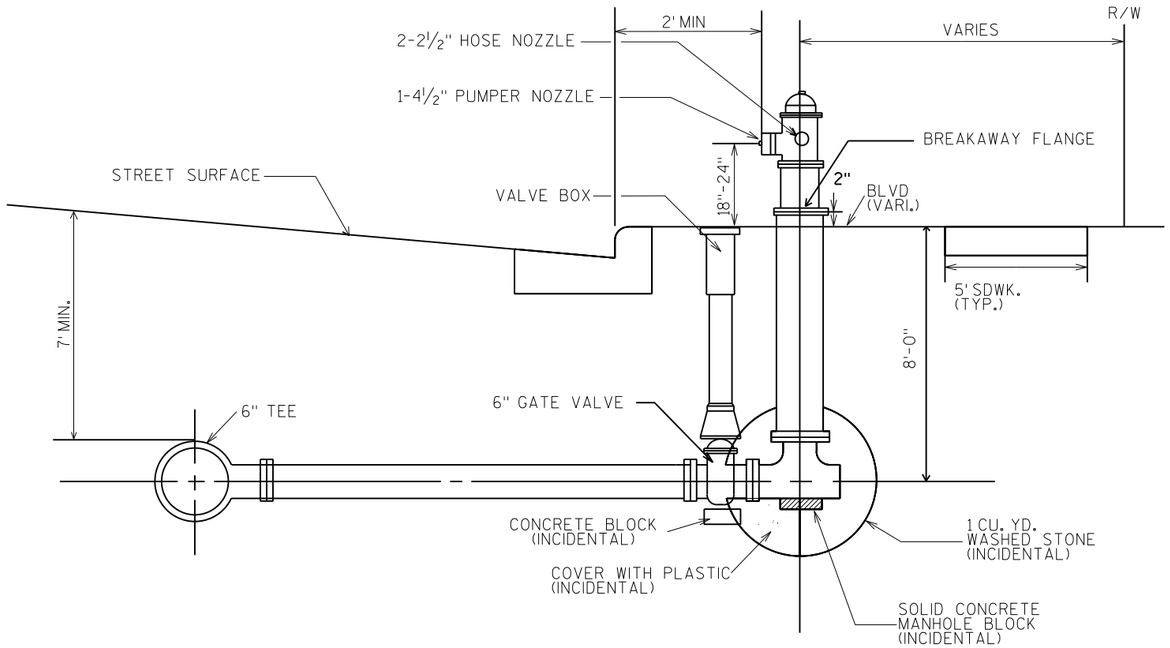


SANITARY AND WATER PIPE BEDDING DETAIL

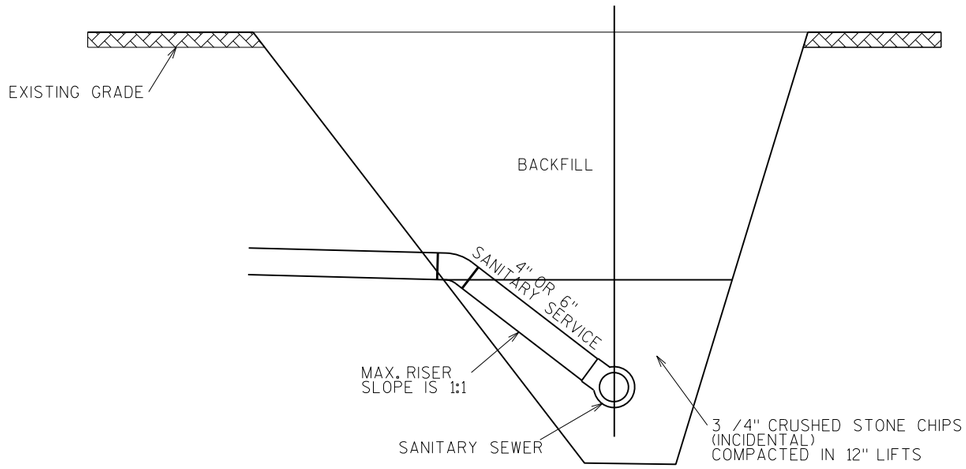




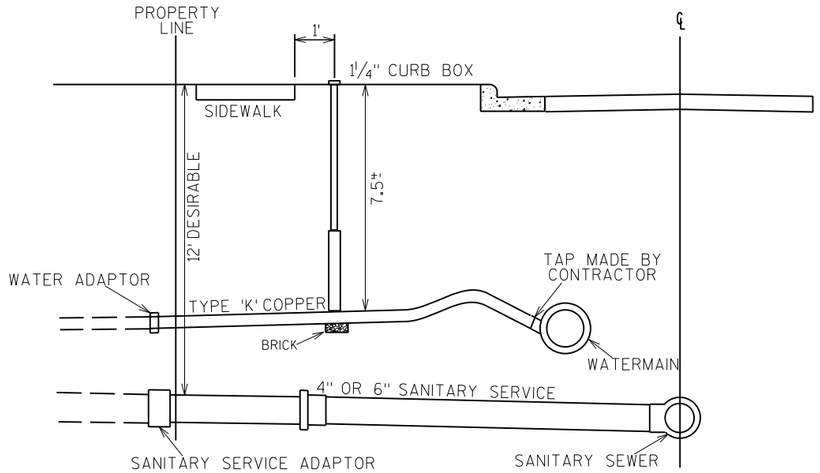
OUTSIDE DROP PRECAST MANHOLE DETAIL



STANDARD HYDRANT INSTALLATION

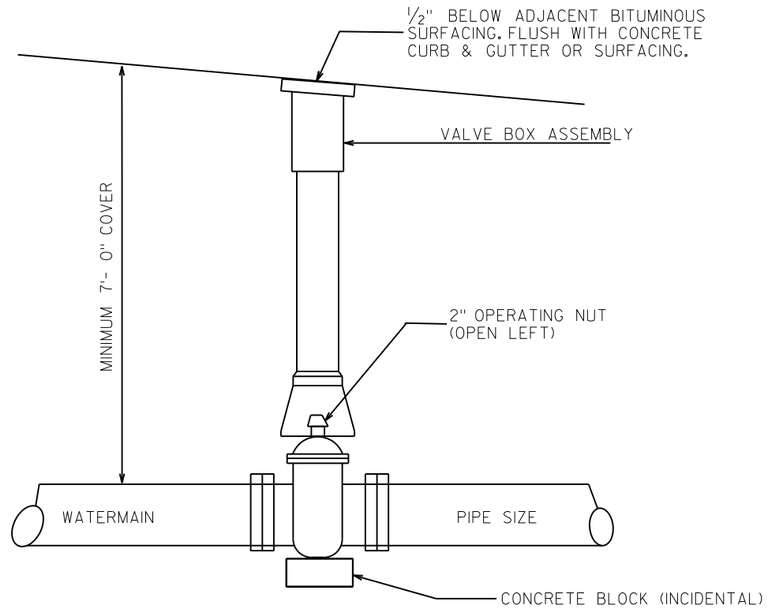


RISER DETAIL



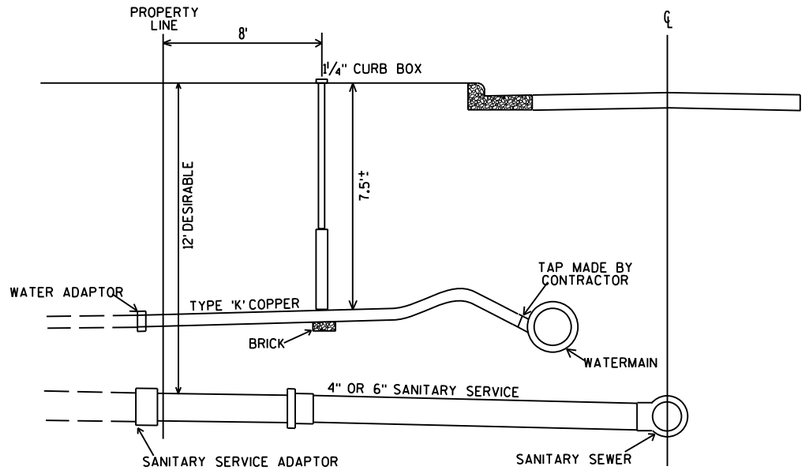
NOTE: TAP WATERMAIN ON 45° WITH PIPE.
SANITARY SERVICE TO BE INSTALLED AT A MINIMUM GRADE OF 1/4" PER FOOT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
MINIMUM SEPARATION BETWEEN SERVICES SHALL BE 12" VERTICAL AND 18" HORIZONTAL.

EXISTING SERVICE INSTALLATION



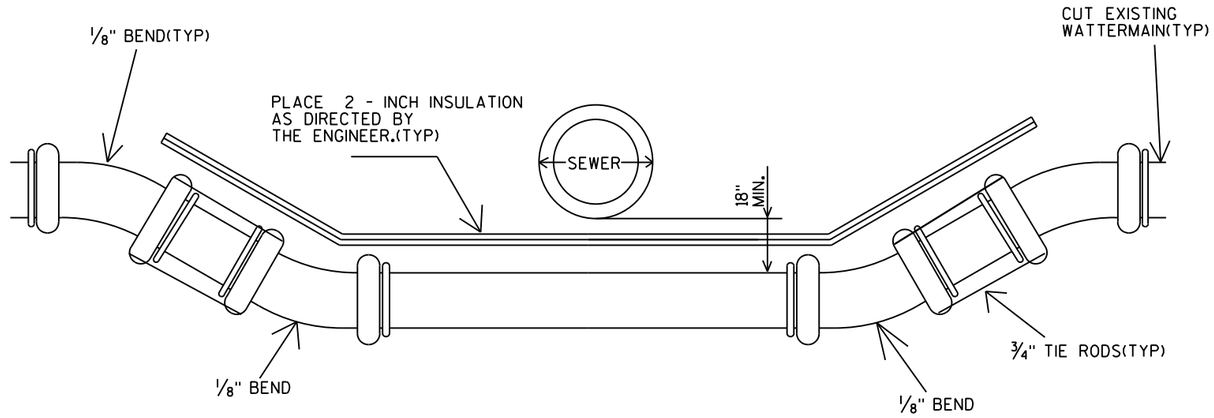
TYPICAL GATE VALVE & BOX INSTALLATION

PROJECT NO: 1470-18-72	HWY: WIS 42	COUNTY: MANITOWOC	CONSTRUCTION DETAIL	SHEET 86	E



NOTE: TAP WATERMAIN ON 45° WITH PIPE.
SANITARY SERVICE TO BE INSTALLED AT A MINIMUM GRADE OF ¼" PER FOOT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
MINIMUM SEPARATION BETWEEN SERVICES SHALL BE 12" VERTICAL AND 18" HORIZONTAL.

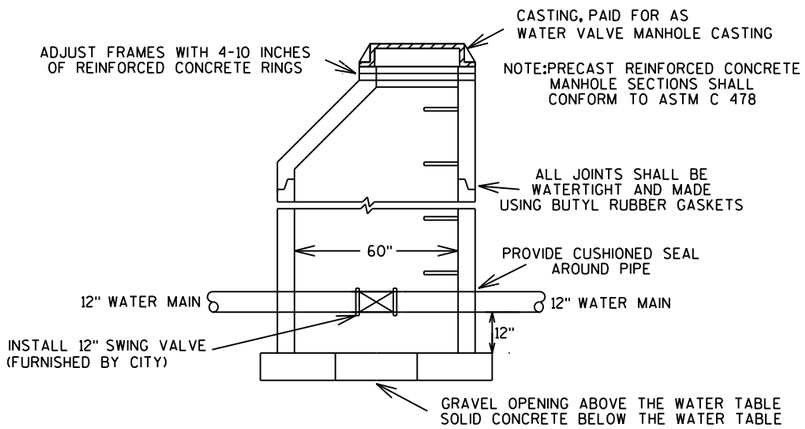
EXISTING SERVICE INSTALLATION



LOWERING WATER MAIN DETAIL

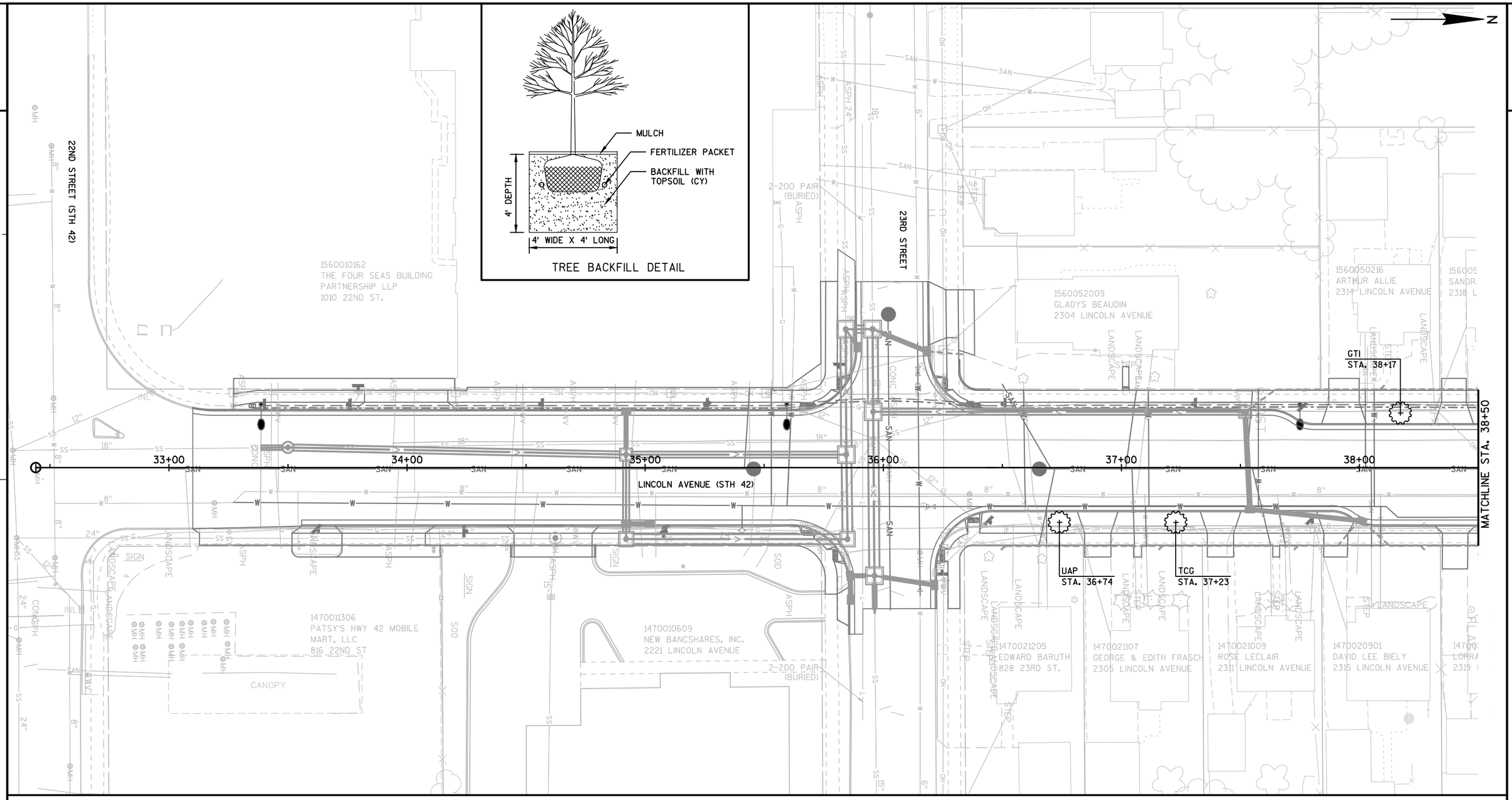
HORIZONTAL OR VERTICAL

VALVE SIZE	MH TOP REQUIRED	CASTING REQUIRED	CASTING HEIGHT	MANHOLE DIAMETER
VARIES	FLAT TOP	SEE SPECIAL PROVISIONS	6 15/16 "	60"



WATER VALVE MANHOLE DETAIL

TREE BACKFILL DETAIL



PLANT DATA TABLE

SYMBOL	COMMON NAME	SCIENTIFIC NAME	AVG. MATURE HEIGHT	SIZE WHEN PLANTED	ROOT ZONE	BALL DIA.	BALL DEPTH	PLANT HOLE SIZE	PLANT HOLE DEPTH	FERTLIZER UNITS REQ'D.	RODENT PROTECTION REQ'D.	BRACING REQ'D.	MULCH RING REQ'D.
SRI	JAPANESE TREE LILAC, 'IVORY SILK'	SYRINGA RETICULATA 'IVORY SILK'	20-25' HT.	2.5" CAL.	B&B	32"	20"	48"x48"	48"	5	YES	YES	4' DIA.
TCG	LITTLELEAF LINDEN, 'GREENSPIRE'	TILIA CORDATA 'GREENSPIRE'	50-70' HT.	2.5" CAL.	B&B	32"	20"	48"x48"	48"	5	YES	YES	4' DIA.
GTI	HONEYLOCUST, 'SKYLINE'	GLEDITSIA TRIACANTHOS VAR. INERMIS 'SKYLINE'	35-45' HT.	2.5" CAL.	B&B	32"	20"	48"x48"	48"	5	YES	YES	4' DIA.
UAP	ELM, 'PRINCETON'	ULMUS AMERICANA 'PRINCETON'	50-70' HT.	2.5" CAL.	B&B	32"	20"	48"x48"	48"	5	YES	YES	4' DIA.

PROJECT NO:1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PLANTING DETAILS	SHEET 88	E

2

2

N

MATCHLINE STA. 38+50

MATCHLINE STA. 44+50

24TH STREET

25TH STREET

LINCOLN AVENUE (STH 42)

39+00 40+00 41+00 42+00 43+00 44+00

SRI STA. 38+82

SRI STA. 41+78

GTI STA. 42+42

SRI STA. 40+45

TCG STA. 40+85

UAP STA. 41+25

GTI STA. 44+13

1560050118
LEONARD & SYLVIA
LESPERANCE
2320 LINCOLN AVENUE

1560062016
WILLIAM & CYNTHIA
SCHWERMA
1000 24TH ST.

1560061927
SHANE & KAY FRISCH
2404 LINCOLN AVENUE

1560061918
NORBERT & DIANE
VOHWINKEL
2410 LINCOLN AVENUE

1560060223
SENG-YANG & MAO MOUA
2412 LINCOLN AVENUE

1560060214
GENIE VARNEY
2418 LINCOLN AVENUE

1560060125
SUSAN DEKOK
2420 LINCOLN AVENUE

1380012029
CONRAD & ELAINE
SWIGGUM
1002 25TH ST.

1380012010
DORIS EURICH
2504 LINCOLN AVENUE

1470020705
NANCY KAKES
2321 LINCOLN AVENUE

1470031007
CANDICE WEBERSKI
2403 LINCOLN AVENUE

1470030909
PATRICK & NATHLEEN
BAGNALL
2407 LINCOLN AVENUE

1470030801
NELDA DAUGHERTY
2409 LINCOLN AVENUE

1470030703
JOHN EDWARD RUETHER
2413 LINCOLN AVENUE

1470030605
AARON & KRISTEN
SCHULTZ
827 25TH ST.

1470041005
CLYDE & ELLEN
SAHN
828 25TH ST.

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PLANTING DETAILS	SHEET 89	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\TREE PLANTING PLAN.DWG
WIS 42 LINCOLN - TREE PLANTING PLAN - PLANTING_02

PLOT DATE : 9/12/2016 10:23 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE STA. 44+50

MATCHLINE STA. 50+50

26TH STREET

27TH STREET

LINCOLN AVENUE (STH 42)

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

GTI STA. 45+36

UAP STA. 46+18

UAP STA. 48+82

SRI STA. 49+27

UAP STA. 49+72

UAP STA. 44+54

TCG STA. 44+97

GTI STA. 47+57

GTI STA. 48+07

1380011921
MARY GRAMS
2510 LINCOLN AVENUE

1380010316
LINDA DAMROW
2514 LINCOLN AVENUE

1380010129
TINA CHRISTMAN
2422 LINCOLN AVENUE

1380061920
DAVID & WENDY ZUNKER
2602 LINCOLN AVENUE

1380062019
BLAINE WALESH
2608 LINCOLN AVENUE

1380060100
GERALD & KENNETH MESSMAN
2618 LINCOLN AVENUE

10907
& BIANCA
IEL
LINCOLN AVENUE

1470040809
DANIEL & JODI MILLER
2509 LINCOLN AVENUE

1470040701
JEROME & MICHELLE
LEGREVE
2513 LINCOLN AVENUE

1470040603
JANET PARMA &
DAVID STODOLA
2517 LINCOLN AVENUE

1470041002
JAMES ABNER
826 26TH ST.

1470050904
PATRICIA PIETROSKE
2607 LINCOLN AVENUE

1470050806
JEAN ZAHORIK
2611 LINCOLN AVENUE

1470050708
ELIZABETH BLAZER
2615 LINCOLN AVENUE

1470050600
DONALD & KATHRYN
KUBEC
2617 LINCOLN AVENUE

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PLANTING DETAILS	SHEET 90	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\TREE PLANTING PLAN.DWG
WIS 42 LINCOLN - TREE PLANTING PLAN - PLANTING_03

PLOT DATE : 9/12/2016 10:23 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

2

N

27TH STREET

28TH STREET

RUINS

WALLS

1380072017
EUGENE KAPLA
2704 LINCOLN AVENUE

1380070116
CLEM BECKER, INC.
2720 LINCOLN AVENUE

1380122008
CLEM BECKER, INC.
2806 LINCOLN AVENUE

138012
JOHN
GAIL
2822

SRI
STA. 52+75

GTI
STA. 56+09

MATCHLINE STA. 50+50

51+00 52+00 53+00 54+00 55+00 56+00

LINCOLN AVENUE (STH 42)

MATCHLINE STA. 56+50

UAP
STA. 51+18

TCG
STA. 51+63

GTI
STA. 54+52

TCG
STA. 54+99

GTI
STA. 55+46

SRI
STA. 55+92

1470061000
STEVEN KAKES
828 27TH ST.

1470060902
RONALD & PATRICIA LUTZ
2711 LINCOLN AVENUE

1470060804
RONALD & PATRICIA LUTZ
2711 LINCOLN AVENUE

1470060706
ERVIN KRIZEK
2713 LINCOLN AVENUE

1470060608
PAUL & PAULETTE SIMONAR
825 28TH ST.

1470071008
PAUL & PAULETTE SIMONAR
828 28TH ST.

1470070893
THOMAS TERP
2809 LINCOLN AVENUE

1470070679
LEONARD & YVONNE HENRICKSON
2819 LINCOLN AVENUE

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PLANTING DETAILS	SHEET 91	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\TREE PLANTING PLAN.DWG
WIS 42 LINCOLN - TREE PLANTING PLAN - PLANTING_04

PLOT DATE : 9/12/2016 10:23 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

2

2

N

30TH STREET

31ST STREET

29TH STREET

1380130124
HOLLY'S HAIR SALON
SCOTT & HOLLY ANDERSON
2910 LINCOLN AVENUE

1622032002
RAYMOND & LISA
MIKEAL
1002 30TH ST.

1622030219
STEVEN KUBEC
3014 LINCOLN AVENUE

1622030120
LARRY & JOANNE
RAATZ
3020 LINCOLN AVENUE

1470080616
DAIRY QUEEN
JALO INC.
2901 LINCOLN AVENUE

1470110065
COOL CITY MOTEL
MARY BETH LECLAIR
3009 LINCOLN AVENUE

GTI
STA. 56+53

UAP
STA. 60+92

UAP
STA. 61+37

MATCHLINE STA. 56+50

MATCHLINE STA. 62+50

57+00

58+00

59+00

60+00

61+00

62+00

LINCOLN AVENUE (STH 42)

TLE

TCG
STA. 59+50

TCG
STA. 60+00

SRI
STA. 61+58

SRI
STA. 62+08

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PLANTING DETAILS	SHEET 92	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\TREE PLANTING PLAN.DWG
WIS 42 LINCOLN - TREE PLANTING PLAN - PLANTING_05

PLOT DATE : 9/12/2016 10:23 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

2

2

N

MATCHLINE STA. 62+50

MATCHLINE STA. 68+50

63+00 64+00 65+00 66+00 67+00 68+00

LINCOLN AVENUE (STH 42)

TCG STA. 62+58

UAP STA. 63+08

GTI STA. 63+58

UAP STA. 64+08

TCG STA. 64+58

TCG STA. 65+63

UAP STA. 66+18

GTI STA. 66+73

UAP STA. 67+28

TCG STA. 67+78

UAP STA. 66+61

GTI STA. 67+17

UAP STA. 67+72

TCG STA. 68+27

1622011980
ARSKE PROPERTIES, LLC

1622011891
PEKARSKE PROPERTIES, LLC
3108 LINCOLN AVENUE

1622010118
PEKARSKE PROPERTIES, LLC
3116 LINCOLN AVENUE

1623010749
THE LIGHTHOUSE ASSEMBLY
OF GOD CHURCH, INC.
3204 LINCOLN AVENUE

1623010239
DONNA WALOTKIEWICZ
3222 LINCOLN AVENUE

2312030001
ROBERT LAPOINT III
3109 LINCOLN AVENUE

2312030305
GTE TELEPHONE
3203 LINCOLN AVENUE

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PLANTING DETAILS	SHEET 93	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\TREE PLANTING PLAN.DWG
WIS 42 LINCOLN - TREE PLANTING PLAN - PLANTING_06

PLOT DATE : 9/12/2016 10:23 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

2

2

N

33RD STREET

34TH STREET

1623010131
DONNA WALOTKIEWICZ
3222 LINCOLN AVENUE

1624082007
JOHN TORRISON

1624080116
WALTER & AMALIA HARROLD
3312 LINCOLN AVENUE

1624012002
MERWYNN TRADE GROUP, LLC.
1010 34TH ST.

1624010120
MERWYNN TRADE GROUP, LI

GTI
STA. 70+55

GTI
STA. 71+35

SRI
STA. 73+60

GTI
STA. 74+10

STA. 68+50

MATCHLINE STA. 68+50

69+00

70+00

71+00

72+00

73+00

74+00

STA. 74+50

MATCHLINE STA. 74+50

LINCOLN AVENUE (STH 42)

UAP
STA. 70+65

2312030109
KRAJNIK CHEVROLET
3303 LINCOLN AVENUE

2312030403
CHARTER COMMUNICATIONS
3315 LINCOLN AVENUE

3130010108
VINCENT & CHERYL
BURKE
3405 LINCOLN AVENUE

TOWER

PROJECT NO:1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PLANTING DETAILS	SHEET 94	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\TREE PLANTING PLAN.DWG
WIS 42 LINCOLN - TREE PLANTING PLAN - PLANTING_07

PLOT DATE : 9/12/2016 10:23 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

2

2

N

3090010603
LARIS VALDRE
1448 TERRACE COURT

3090010505
TIMOTHY LOHR
1005 35TH PLACE

2361010011
STREU CONSTRUCTION COMP.
3612 LINCOLN AVENUE

35TH STREET

35TH PLACE

SRI
STA. 74+60

SRI
STA. 76+10

GTI
STA. 76+60

SRI
STA. 77+10

GTI
STA. 77+60

SRI
STA. 78+10

MATCHLINE STA. 74+50

75+00

76+00

77+00

78+00

79+00

80+00

LINCOLN AVENUE (STH 42)

SRI
STA. 74+70

GTI
STA. 75+20

SRI
STA. 76+38

GTI
STA. 76+88

SRI
STA. 77+58

GTI
STA. 78+08

SRI
STA. 78+58

GTI
STA. 79+08

2312020557
BRUCE MOFFATT
STORAGE UNITS
3501 LINCOLN AVENUE

2312020209
TWO RIVERS BUSES INC.
3515 LINCOLN AVENUE

2312020405
BRUCE MOFFATT
3601 LINCOLN AVENUE

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PLANTING DETAILS	SHEET 95	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\TREE PLANTING PLAN.DWG
WIS 42 LINCOLN - TREE PLANTING PLAN - PLANTING_08

PLOT DATE : 9/12/2016 10:24 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

2

2

31ST STREET

PEKARSKE PROPERTIES, LLC
3108 LINCOLN AVENUE

PEKARSKE PROPERTIES, LLC
3116 LINCOLN AVENUE

ASPH

N

62+00 63+00 64+00 65+00

LINCOLN AVENUE (STH 42)

CONCRETE CURB PEDESTRIAN

BACK OF CONCRETE SIDEWALK

5'

5.5'

(38' RT.)

AT
38

5'
(TYP.)

MULCH RING (INCIDENTAL TO TREES BID ITEM)

EXISTING R/W

EXISTING R/W

231203001
ROBERT LAPOINT III
3109 LINCOLN AVENUE

PLANT DATA TABLE

SYMBOL	COMMON NAME	SCIENTIFIC NAME	TYPE	AVG. MATURE HEIGHT	SIZE WHEN PLANTED	ROOT ZONE	BALL DIA.	BALL DEPTH	PLANT HOLE DIA.	PLANT HOLE DEPTH	FERTLIZER UNITS REQ'D.	RODENT PROTECTION REQ'D.	MULCH RING REQ'D.
AT	ARBORVITAE, AMERICAN 'TECHNY'	THUJA OCCIDENTALIS 'TECHNY'	4E	10-15' HT.	5' HT.	B&B	20"	12"	44"	44"	3	NO	BED

PROJECT NO:1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PLANTING DETAILS	SHEET 96	E

(TO BE REMOVED BY OTHERS)

TWO RIVERS ATTRACTIONS
NESHOTAH BEACH & WALSH FIELD
POINT BEACH STATE FOREST
BUSINESS DISTRICT
HOSPITAL
VISITOR INFO. & MUSEUMS
WASHINGTON PARK

22ND STREET (STH 42)

SPEED LIMIT 25 (TO REMAIN)

STOP RIGHT TURN NO STOP (TO REMAIN)

*7' MOUNTING HEIGHT TO BOTTOM SIGN

1.1 M1-93 24"X24"
1.2 MK6-1 21"X21"
1.3 J3-1 24"X57" SOUTH M3-3 24"X12" 42 M1-6 24"X24" RIGHT TURN NO STOP M6-1R 21"X21"
1.4 J13-1 24"X45" COUNTY O M1-5A 24"X24" M6-1L 21"X21"
1.5 ONLY ONLY R3-8-F 36"X30"
1.6 NO PARKING ANY TIME R7-1-D 18"X24"
1.7 STOP R1-1 30"X30"
1.8 J3-1 24"X57" SOUTH M3-3 24"X12" 42 M1-6 24"X24" M5-1R 21"X21"
1.9 J1-1 24"X39" JCT M2-1 21"X15" COUNTY O M1-5A 24"X24"
1.10 NO PARKING ANY TIME R7-1-R 18"X24"
1.11 NO PARKING ANY TIME R7-1-D 18"X24"
1.12 J4-1 24"X36" NORTH M3-1 24"X12" 42 M1-6 24"X24"
1.13 M1-93 24"X24"
1.14 SPEED LIMIT 25 R2-1 24"X30"
1.15 NO PARKING ANY TIME R7-1-D 18"X24"
1.16 STOP R1-1 30"X30"
1.17 NO PARKING ANY TIME R7-1-L 18"X24"
1.18 NO PARKING ANY TIME R7-1-R 18"X24"
1.19 STOP (MOVING SIGNS TYPE II AND MOVING SMALL SIGN SUPPORT)

(ON UTILITY POLE) E1.1 SOUTH 42 RIGHT TURN NO STOP
(ON UTILITY POLE) E1.2 LEFT LANE MUST TURN LEFT
(ON UTILITY POLE) E1.3 42 NO PARKING THIS SIDE OF STREET
E1.4 STOP
E1.5 NO PARKING ANYTIME
E1.6 NO PARKING THIS SIDE OF STREET
E1.7 SPEED LIMIT 25 NO PARKING THIS SIDE OF STREET
E1.8 STOP (TO BE REMOVED BY OTHERS)
E1.9 42

(TO REMAIN) J (TYP.)

D E F H G E I A

STA. 34+55
33+00 34+00 35+00 36+00 37+00 38+00
6' TYP.
11' 11' 22'
LINCOLN AVENUE (STH 42)
6' TYP. 5' 5' 6'
MATCHLINE STA. 38+50

MATCH INTO EXISTING PAVEMENT MARKINGS

1470011306 PATSY'S HWY 42 MART, LLC 816 22ND ST
1470010609 NEW BANCSHARES, INC. 2221 LINCOLN AVENUE
1560052009 GLADYS BEAU 2304 LINCOLI
1560050216 ARTHUR ALLIE 2314 LINCOLN AVENUE
156005 SANDR 2318 L
1470021009 ROSE LECLAIR 2311 LINCOLN AVENUE
1470020901 DAVID LEE BIELY 2315 LINCOLN AVENUE
147002 LORRA 2319
BARUTH 228 23RD ST.
107 & EDITH FRASCH 2305 LINCOLN AVENUE

CANOPY
CONCRETE
LANDSCAPE
SIGN
SOD
ASPH
INL
OHL
STEP
23RD ST. LINCOLN AVE.
LINCOLN AVE. 22ND ST. STOP ONCOMING TRAFFIC DOES NOT STOP (TO REMAIN)
NORTH 42 42 (TO REMAIN)

4' TYP.

NOTE: ALL EXISTING SIGNS AND POSTS WITHIN THE PROJECT LIMITS TO BE REMOVED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.

LEGEND

A	PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW	H	PAVEMENT MARKING ARROWS EPOXY TYPE 2
B	PAVEMENT MARKING EPOXY 4-INCH, YELLOW, 12.5' LINE, 37.5' GAP	I	PAVEMENT MARKING EPOXY 4-INCH, WHITE, 3' LINE, 9' GAP
C	PAVEMENT MARKING EPOXY 4-INCH, WHITE	J	PAVEMENT MARKING PARKING STALL EPOXY, YELLOW
D	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH	K	PAVEMENT MARKING ARROWS BIKE LANE EPOXY
E	PAVEMENT MARKING EPOXY 8-INCH, WHITE	L	PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
F	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	M	PAVEMENT MARKING WORDS BIKE LANE EPOXY
G	PAVEMENT MARKING WORDS EPOXY		

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET 97	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\PERMANENT SIGNING AND PAVEMENT MARKINGS.DWG
WIS 42 LINCOLN - PERMANENT SIGNING AND PAVEMENT MARKINGS - SIGNING_01
PLOT DATE : 9/12/2016 10:27 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF

2

2

N

24TH STREET

25TH STREET

MATCHLINE STA. 38+50

MATCHLINE STA. 44+50

39+00

40+00

41+00

42+00

43+00

44+00

LINCOLN AVENUE (STH 42)

6' TYP.

4' TYP.

2.1 NO PARKING ANY TIME R7-1-L 18"X24"

2.2 STOP R1-1 30"X30"

2.3 SPEED LIMIT 25 R2-1 24"X30"

2.4 NO PARKING ANY TIME R7-1-R 18"X24"

2.5 NO PARKING ANY TIME R7-1-L 18"X24"

2.6 STOP R1-1 30"X30"

2.7 STOP R1-1 30"X30"

2.8 NO PARKING ANY TIME R7-1-L 18"X24"

2.9 SPEED LIMIT 25 R2-1 24"X30"

2.10 NO PARKING ANY TIME R7-1-R 18"X24"

2.11 KEEP RIGHT

2.12 (MOVING SIGNS TYPE II AND MOVING SMALL SIGN SUPPORT)

2.13 DO NOT ENTER (MOVING SIGNS TYPE II AND MOVING SMALL SIGN SUPPORT)

2.14 STOP R1-1 30"X30"

2.15 NO PARKING ANY TIME R7-1-L 18"X24"

E2.1 JCT COUNTY O

E2.2 STOP

E2.3 42 SPEED LIMIT 25

E2.4 STOP

E2.5 STOP

E2.6 SPEED LIMIT 25

E2.7 STOP

(ON UTILITY POLE)

(TO BE REMOVED BY OTHERS)

(TO BE REMOVED BY OTHERS)

(ON UTILITY POLE)

(MOVING SIGNS TYPE II AND MOVING SMALL SIGN SUPPORT)

(MOVING SIGNS TYPE II AND MOVING SMALL SIGN SUPPORT)

1560062016 WILLIAM & CYNTHIA SCHWERMA 1000 24TH ST.

1560061927 SHANE & KAY FRISCH 2404 LINCOLN AVENUE

1560061918 NORBERT & DIANE VOHWINKEL 2410 LINCOLN

1560060223 SENG YANG & MAO MOUA 2412 LINCOLN AVENUE

1560060214 GENIE VARNEY 2418 LINCOLN AVENUE

1560060125 SUSAN DEKOK 2420 LINCOLN AVENUE

1380012029 CONRAD & ELAINE SWIGGUM 1002 25TH ST.

1380012010 DORIS EURICH 2504 LINCOLN AVENUE

1470030909 PATRICK & NATHLEEN BAGNALL 2407 LINCOLN AVENUE

1470030801 NELDA DAUGHERTY 2409 LINCOLN AVE

30703 EDWARD RUETHER LINCOLN AVENUE

1470030605 AARON & KRISTEN SCHULTZ 827 25TH ST.

1470041005 CLYDE & ELLEN SAHN 828

1470031 CANDICE 2403 LINCOLN AVENUE

1470020705 NANCY KAKES 2321 LINCOLN AVENUE

20803 INE SCHWINDLER LINCOLN AVENUE

0127 AMMERMAN INCOLN AVENUE

NOTE: ALL EXISTING SIGNS AND POSTS WITHIN THE PROJECT LIMITS TO BE REMOVED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.

LEGEND

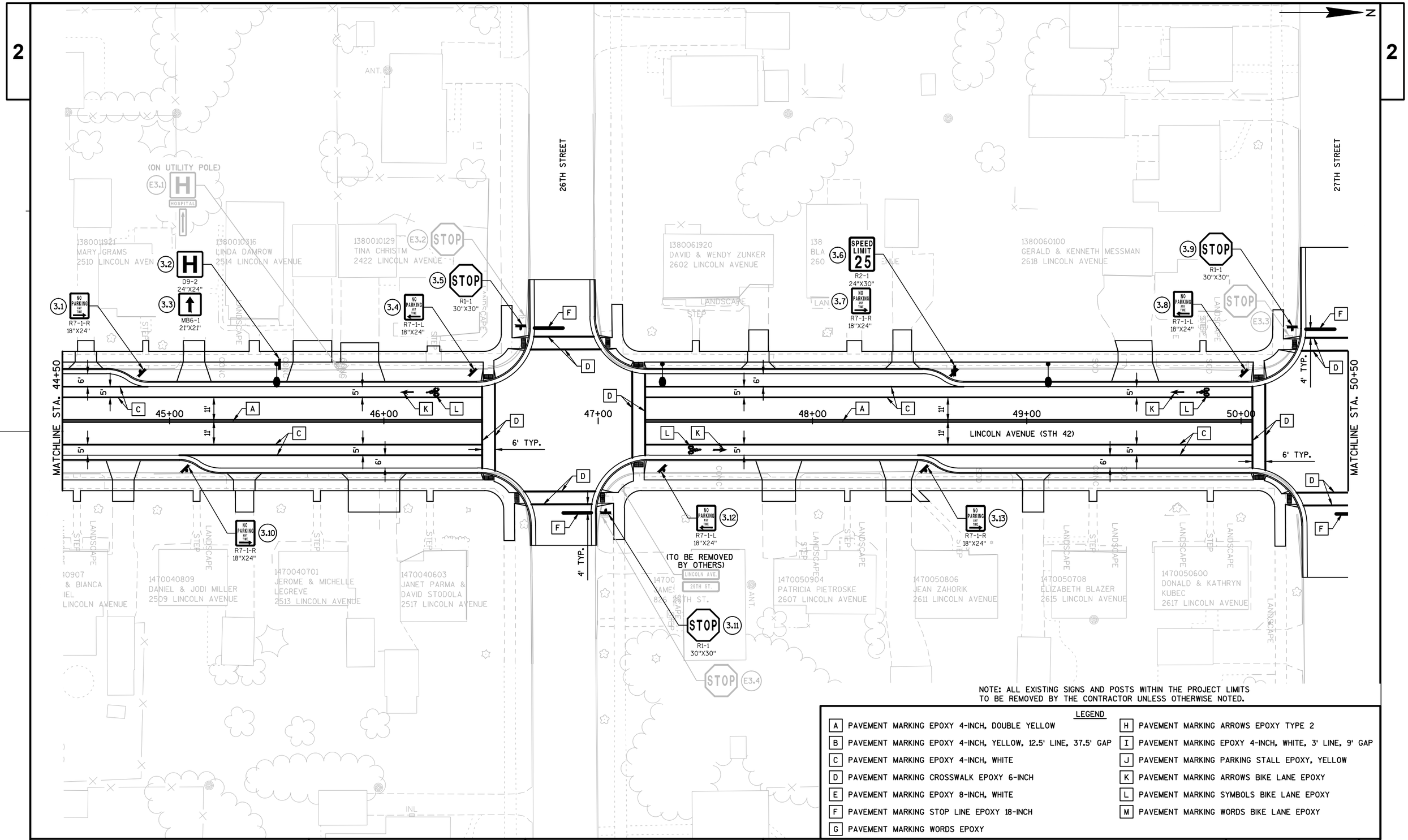
- A PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
- B PAVEMENT MARKING EPOXY 4-INCH, YELLOW, 12.5' LINE, 37.5' GAP
- C PAVEMENT MARKING EPOXY 4-INCH, WHITE
- D PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
- E PAVEMENT MARKING EPOXY 8-INCH, WHITE
- F PAVEMENT MARKING STOP LINE EPOXY 18-INCH
- G PAVEMENT MARKING WORDS EPOXY
- H PAVEMENT MARKING ARROWS EPOXY TYPE 2
- I PAVEMENT MARKING EPOXY 4-INCH, WHITE, 3' LINE, 9' GAP
- J PAVEMENT MARKING PARKING STALL EPOXY, YELLOW
- K PAVEMENT MARKING ARROWS BIKE LANE EPOXY
- L PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
- M PAVEMENT MARKING WORDS BIKE LANE EPOXY

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET 98	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\PERMANENT SIGNING AND PAVEMENT MARKINGS.DWG
WIS 42 LINCOLN - PERMANENT SIGNING AND PAVEMENT MARKINGS - SIGNING_02

PLOT DATE : 9/12/2016 10:27 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42



NOTE: ALL EXISTING SIGNS AND POSTS WITHIN THE PROJECT LIMITS TO BE REMOVED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.

LEGEND

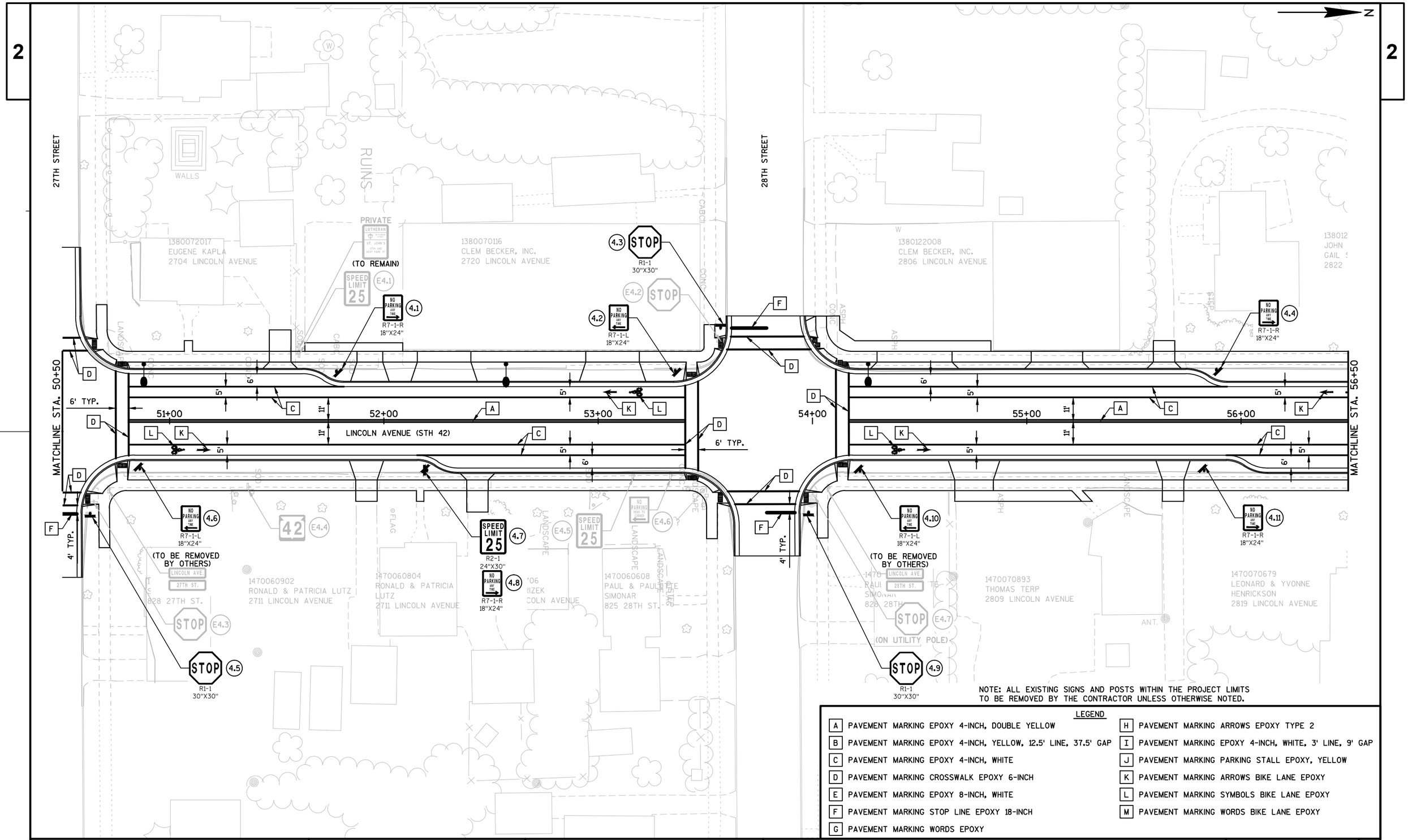
A	PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW	H	PAVEMENT MARKING ARROWS EPOXY TYPE 2
B	PAVEMENT MARKING EPOXY 4-INCH, YELLOW, 12.5' LINE, 37.5' GAP	I	PAVEMENT MARKING EPOXY 4-INCH, WHITE, 3' LINE, 9' GAP
C	PAVEMENT MARKING EPOXY 4-INCH, WHITE	J	PAVEMENT MARKING PARKING STALL EPOXY, YELLOW
D	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH	K	PAVEMENT MARKING ARROWS BIKE LANE EPOXY
E	PAVEMENT MARKING EPOXY 8-INCH, WHITE	L	PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
F	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	M	PAVEMENT MARKING WORDS BIKE LANE EPOXY
G	PAVEMENT MARKING WORDS EPOXY		

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET 99	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\PERMANENT SIGNING AND PAVEMENT MARKINGS.DWG
WIS 42 LINCOLN - PERMANENT SIGNING AND PAVEMENT MARKINGS - SIGNING_03

PLOT DATE : 9/12/2016 10:27 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42



NOTE: ALL EXISTING SIGNS AND POSTS WITHIN THE PROJECT LIMITS TO BE REMOVED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.

LEGEND

A	PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW	H	PAVEMENT MARKING ARROWS EPOXY TYPE 2
B	PAVEMENT MARKING EPOXY 4-INCH, YELLOW, 12.5' LINE, 37.5' GAP	I	PAVEMENT MARKING EPOXY 4-INCH, WHITE, 3' LINE, 9' GAP
C	PAVEMENT MARKING EPOXY 4-INCH, WHITE	J	PAVEMENT MARKING PARKING STALL EPOXY, YELLOW
D	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH	K	PAVEMENT MARKING ARROWS BIKE LANE EPOXY
E	PAVEMENT MARKING EPOXY 8-INCH, WHITE	L	PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
F	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	M	PAVEMENT MARKING WORDS BIKE LANE EPOXY
G	PAVEMENT MARKING WORDS EPOXY		

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET 100	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\PERMANENT SIGNING AND PAVEMENT MARKINGS.DWG
WIS 42 LINCOLN - PERMANENT SIGNING AND PAVEMENT MARKINGS - SIGNING_04

PLOT DATE : 9/12/2016 10:27 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

N

5.1 J4-1 24"X36" SOUTH
M3-3 24"X12"
42
M1-6 24"X24"
5.18 M1-93 24"X24"

(ON UTILITY POLE)
NESHOTAH BEACH AREA
42 E5.1
(TO BE REMOVED BY OTHERS)

5.2 SPEED LIMIT 25 R2-1 24"X30"
5.3 NO PARKING ANY TIME R7-1-L 18"X24"
5.4 R9-3-A 24"X24"
5.5 USE CROSSWALK R9-3-BL 18"X12"
5.6 STOP R1-1 30"X30"
E5.2 STOP

30TH STREET

4' TYP.

1622032002
RAYMOND & LISA
MIKEAL
1002 30TH ST.

FLASHING WARNING BEACON
(FLASHING WARNING BEACON TO BE REMOVED BY OTHERS PRIOR TO CONSTRUCTION)
SPEED LIMIT 25 E5.3
(ON UTILITY POLE)

1622030219
STEVEN KUBEC
3014 LINCOLN AVENUE

5.7 NO PARKING ANY TIME R7-1-R 18"X24"
5.8 NO PARKING ANY TIME R7-1-L 18"X24"

1622030120
LARRY & JOA RAATZ
3020 LINCOLN AVENUE

5.9 STOP R1-1 30"X30"
E5.4 STOP

31ST STREET

SPEED LIMIT 25 (TO REMAIN)
(TO BE REMOVED BY OTHERS)
LINCOLN AVE.
31ST ST.

MATCHLINE STA. 56+50

57+00 58+00 59+00 60+00 61+00 62+00

LINCOLN AVENUE (STH 42)

6' TYP.

5' 11' 6'

5.10 STOP R1-1 30"X30"
E5.5 STOP

29TH STREET

5.11 R9-3-A 24"X24"
5.12 USE CROSSWALK R9-3-BL 18"X12"
(TO BE REMOVED BY OTHERS)
LINCOLN AVE. 29TH ST.

1470080616
DAIRY QUEEN INC.
LINCOLN AVENUE

BUS STOP 1
(TO BE REMOVED BY OTHERS)

5.13 NO PARKING ANY TIME R7-1-L 18"X24"

SPEED LIMIT 35 E5.6
(ON UTILITY POLE)
LINCOLN AVE. 30TH ST.
(TO BE REMOVED BY OTHERS)

5.14 SPEED LIMIT 25 R2-1 24"X30"
5.15 NO PARKING ANY TIME R7-1-D 18"X24"

1470
COOL
MARY ECLAIR
3009 LINCOLN AVENUE

5.16 J4-1 24"X36" NORTH
M3-1 24"X12"
42
M1-6 24"X24"

5.17 NO PARKING ANY TIME R7-1-D 18"X24"

NOTE: ALL EXISTING SIGNS AND POSTS WITHIN THE PROJECT LIMITS TO BE REMOVED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.

LEGEND

A	PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW	H	PAVEMENT MARKING ARROWS EPOXY TYPE 2
B	PAVEMENT MARKING EPOXY 4-INCH, YELLOW, 12.5' LINE, 37.5' GAP	I	PAVEMENT MARKING EPOXY 4-INCH, WHITE, 3' LINE, 9' GAP
C	PAVEMENT MARKING EPOXY 4-INCH, WHITE	J	PAVEMENT MARKING PARKING STALL EPOXY, YELLOW
D	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH	K	PAVEMENT MARKING ARROWS BIKE LANE EPOXY
E	PAVEMENT MARKING EPOXY 8-INCH, WHITE	L	PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
F	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	M	PAVEMENT MARKING WORDS BIKE LANE EPOXY
G	PAVEMENT MARKING WORDS EPOXY		

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET 101	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\PERMANENT SIGNING AND PAVEMENT MARKINGS.DWG
WIS 42 LINCOLN - PERMANENT SIGNING AND PAVEMENT MARKINGS - SIGNING_05
PLOT DATE : 9/12/2016 10:27 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 42

2

N

2011980
ARSKE PROPERTIES, LLC

1622011891
PEKARSKE PROPERTIES, LLC
3108 LINCOLN AVENUE

1622010118
PEKARSKE PROPERTIES, LLC
3116 LINCOLN AVENUE

1623010749
THE LIGHTHOUSE ASSEMBLY
OF GOD CHURCH, INC.
3204 LINCOLN AVENUE

1623010239
DONNA WALOTKIEWICZ
3222 LINCOLN AVENUE

E6.1
42
REDUCED SPEED AHEAD
25 M.P.H.

SPEED LIMIT 25 — 6.1
R2-1
24"X30"

NO PARKING ANY TIME — 6.2
R7-1-R
18"X24"

LANDSCAPE STEP

ASPH

CONC

MATCHLINE STA. 62+50

MATCHLINE STA. 68+50

63+00 64+00 65+00 66+00 67+00 68+00

11' 11' 11' 11'

5' 6' 5' 5'

A C K L

L K

LINCOLN AVENUE (STH 42)

L K

C

NO PARKING ANY TIME — 6.3
R7-1-D
18"X24"

NO PARKING ANY TIME — 6.4
R7-1-D
18"X24"

NO PARKING ANY TIME — 6.5
R7-1-D
18"X24"

SIGN

2312030001
ROBERT LAPOINT III
3109 LINCOLN AVENUE

2312030305
GTE TELEPHONE
3203 LINCOLN AVENUE

NOTE: ALL EXISTING SIGNS AND POSTS WITHIN THE PROJECT LIMITS TO BE REMOVED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.

LEGEND

A	PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW	H	PAVEMENT MARKING ARROWS EPOXY TYPE 2
B	PAVEMENT MARKING EPOXY 4-INCH, YELLOW, 12.5' LINE, 37.5' GAP	I	PAVEMENT MARKING EPOXY 4-INCH, WHITE, 3' LINE, 9' GAP
C	PAVEMENT MARKING EPOXY 4-INCH, WHITE	J	PAVEMENT MARKING PARKING STALL EPOXY, YELLOW
D	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH	K	PAVEMENT MARKING ARROWS BIKE LANE EPOXY
E	PAVEMENT MARKING EPOXY 8-INCH, WHITE	L	PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
F	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	M	PAVEMENT MARKING WORDS BIKE LANE EPOXY
G	PAVEMENT MARKING WORDS EPOXY		

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET 102	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\PERMANENT SIGNING AND PAVEMENT MARKINGS.DWG
WIS 42 LINCOLN - PERMANENT SIGNING AND PAVEMENT MARKINGS - SIGNING_06

PLOT DATE : 9/12/2016 10:27 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF

2

N

33RD STREET

34TH STREET

SPEED LIMIT 25 (TO REMAIN)

1623010131
DONNA WALOSKIEWICZ
3222 LINCOLN AVENUE

1624082007
JOHN TORRISON

1624080
WALTER
3312 LIN

PRIVATE (TO REMAIN)

SIGN

7.1 NO PARKING ANY TIME R7-1-L 18"X24"

7.2 STOP R1-1 30"X30"

7.3 SPEED LIMIT 25 R2-1 24"X30"

7.4 NO PARKING ANY TIME R7-1-R 18"X24"

7.5 NO PARKING ANY TIME R7-1-L 18"X24"

7.6 STOP R1-1 30"X30"

7.7 *7' MOUNTING HEIGHT
RECTANGULAR RAPID FLASHING BEACON (RRFB) WITH PEDESTRIAN ACTIVATION (SEE DETAIL)
(2) W11-2 30"X30"
(1) W16-7L 24"X12"
(1) W16-7R 24"X12"
(1) R10-25 9"X12"

7.8 NO PARKING ANY TIME R7-1-R 18"X24"

7.9 W11-2 30"X30"

7.10 AHEAD W16-9P 24"X12"

E7.1 STOP

E7.2 STOP

E7.3

4' TYP.

MATCHLINE STA. 68+50

MATCHLINE STA. 74+50

69+00

70+00

71+00

72+00

73+00

74+00

6' TYP.

LINCOLN AVENUE (STH 42)

LINCOLN AVE. 34TH ST. (TO BE REMOVED BY OTHERS)

2312030109
KRAJNIK CHEVROLET
3303 LINCOLN AVENUE

(ON UTILITY POLE) (TO BE REMOVED BY OTHERS)

LINCOLN AVE. 33RD ST. (TO BE REMOVED BY OTHERS)

7.11 SPEED LIMIT 25 R2-1 24"X30"

7.12 NO PARKING ANY TIME R7-1-D 18"X24"

7.13 W11-2 30"X30" AHEAD W16-9P 24"X12"

7.14

7.15 NO PARKING ANY TIME R7-1-R 18"X24"

7.16 (2) W11-2 30"X30"

7.17 STOP R1-1 30"X30"

7.18 NO PARKING ANY TIME R7-1-L 18"X24"

7.19 (MOVING SIGNS TYPE II)

*7' MOUNTING HEIGHT
RECTANGULAR RAPID FLASHING BEACON (RRFB) WITH PEDESTRIAN ACTIVATION (SEE DETAIL)
(1) W16-7L 24"X12"
(1) W16-7R 24"X12"
(1) R10-25 9"X12"

E7.4 AHEAD

E7.5 SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT

E7.6

E7.7 STOP

2312030403
CHARTER COMMUNICATIONS
3315 LINCOLN AVENUE

DEAD END (TO REMAIN)

SPEED LIMIT 25 (TO REMAIN)

TOWER

F 4' TYP.

D 6' TYP.

NOTE: ALL EXISTING SIGNS AND POSTS WITHIN THE PROJECT LIMITS TO BE REMOVED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.

LEGEND

A	PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW	H	PAVEMENT MARKING ARROWS EPOXY TYPE 2
B	PAVEMENT MARKING EPOXY 4-INCH, YELLOW, 12.5' LINE, 37.5' GAP	I	PAVEMENT MARKING EPOXY 4-INCH, WHITE, 3' LINE, 9' GAP
C	PAVEMENT MARKING EPOXY 4-INCH, WHITE	J	PAVEMENT MARKING PARKING STALL EPOXY, YELLOW
D	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH	K	PAVEMENT MARKING ARROWS BIKE LANE EPOXY
E	PAVEMENT MARKING EPOXY 8-INCH, WHITE	L	PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
F	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	M	PAVEMENT MARKING WORDS BIKE LANE EPOXY
G	PAVEMENT MARKING WORDS EPOXY		

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET 103	E

2

N

E8.2 STOP

8.2 STOP R1-1 30"X30"

E8.1 SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT

8.1 NO PARKING ANY TIME R7-1-L 18"X24"

35TH STREET

4' TYP.

6'

F

D

DEAD END (TO REMAIN)

(TO BE REMOVED BY OTHERS)

LINCOLN AVE.

35TH ST.

8.3 NO PARKING ANY TIME R7-1-R 18"X24"

3090010603
LARIS VALDRE
RRACE COURT

E8.3 H HOSPITAL

8.4 H D9-2 24"X24"

8.5 MB6-1 21"X21"

E8.4 AHEAD

3090010505
TIMOTHY LOHR
1005 35TH PLACE

8.7 STOP R1-1 30"X30"

E8.5 STOP

LINCOLN AVE.
35TH PL.

(TO BE REMOVED BY OTHERS)

8.6 NO PARKING ANY TIME R7-1-L 18"X24"

35TH PLACE

4' TYP.

6' TYP.

F

D

CABC

8.9 SPEED LIMIT 25 W3-5 36"X36"

2361010011
STREU CONSTRUCTION CORP.
3612 LINCOLN AVENUE

8.8 SPEED LIMIT 25 R2-1 24"X30"

E8.6 SPEED LIMIT 35

BEGIN TAPER TO MATCH INTO EXISTING WHITE EDGELINE

REMOVING PAVEMENT MARKINGS (TYP.)

475'

MATCHLINE STA. 74+50

75+00

76+00

77+00

78+00

79+00

80+00

K L D A C E

LINCOLN AVENUE (STH 42)

L M

BEGIN TAPER TO MATCH INTO EXISTING WHITE EDGELINE

MATCH INTO EXISTING PAVEMENT MARKINGS

8.10 NO PARKING ANY TIME R7-1-D 18"X24"

2312020557
BRUCE MOFFATT
STORAGE UNITS
3501 LINCOLN AVENUE

8.11 NO PARKING ANY TIME R7-1-D 18"X24"

PRIVATE DRIVE

PRIVATE (TO BE REMOVED BY OTHERS)

2312020209
TWO RIVERS
3515 LINCOLN

NO TURN AROUND

PRIVATE (TO BE REMOVED BY OTHERS)

SIGN

8.12 NO PARKING ANY TIME R7-1-D 18"X24"

SPEED LIMIT 45 E8.7

2312020405
BRUCE MOFFATT
3601 LINCOLN AVENUE

8.13 SPEED LIMIT 45 R2-1 24"X30"

8.14 PATH ENDS 24"X18"

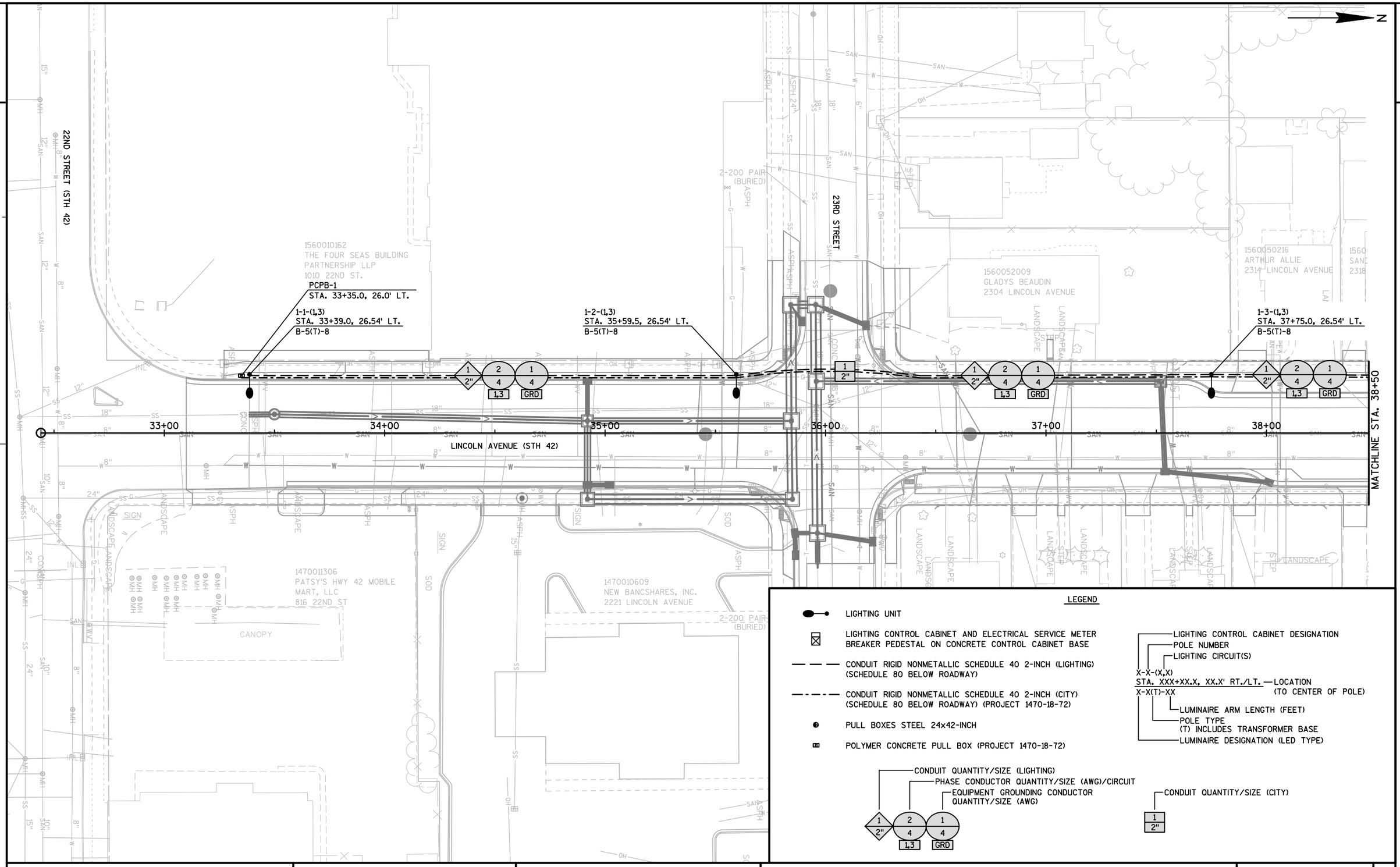
(SEE SIGN PLATE DETAIL)
*4' MOUNTING HEIGHT
(SEE "END OF MULTI-USE PATH DETAIL")

NOTE: ALL EXISTING SIGNS AND POSTS WITHIN THE PROJECT LIMITS TO BE REMOVED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.

LEGEND

A	PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW	H	PAVEMENT MARKING ARROWS EPOXY TYPE 2
B	PAVEMENT MARKING EPOXY 4-INCH, YELLOW, 12.5' LINE, 37.5' GAP	I	PAVEMENT MARKING EPOXY 4-INCH, WHITE, 3' LINE, 9' GAP
C	PAVEMENT MARKING EPOXY 4-INCH, WHITE	J	PAVEMENT MARKING PARKING STALL EPOXY, YELLOW
D	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH	K	PAVEMENT MARKING ARROWS BIKE LANE EPOXY
E	PAVEMENT MARKING EPOXY 8-INCH, WHITE	L	PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
F	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	M	PAVEMENT MARKING WORDS BIKE LANE EPOXY
G	PAVEMENT MARKING WORDS EPOXY		

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PERMANENT SIGNING AND PAVEMENT MARKINGS	SHEET 104	E



LEGEND

- LIGHTING UNIT
- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (LIGHTING) (SCHEDULE 80 BELOW ROADWAY)
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (CITY) (SCHEDULE 80 BELOW ROADWAY) (PROJECT 1470-18-72)
- PULL BOXES STEEL 24x42-INCH
- POLYMER CONCRETE PULL BOX (PROJECT 1470-18-72)

X-X-(X,X)
STA. XXX+XX.X, XX.X' RT./LT.
X-X(T)-XX

- LIGHTING CONTROL CABINET DESIGNATION
- POLE NUMBER
- LIGHTING CIRCUIT(S)
- LOCATION (TO CENTER OF POLE)
- LUMINAIRE ARM LENGTH (FEET)
- POLE TYPE (T) INCLUDES TRANSFORMER BASE
- LUMINAIRE DESIGNATION (LED TYPE)

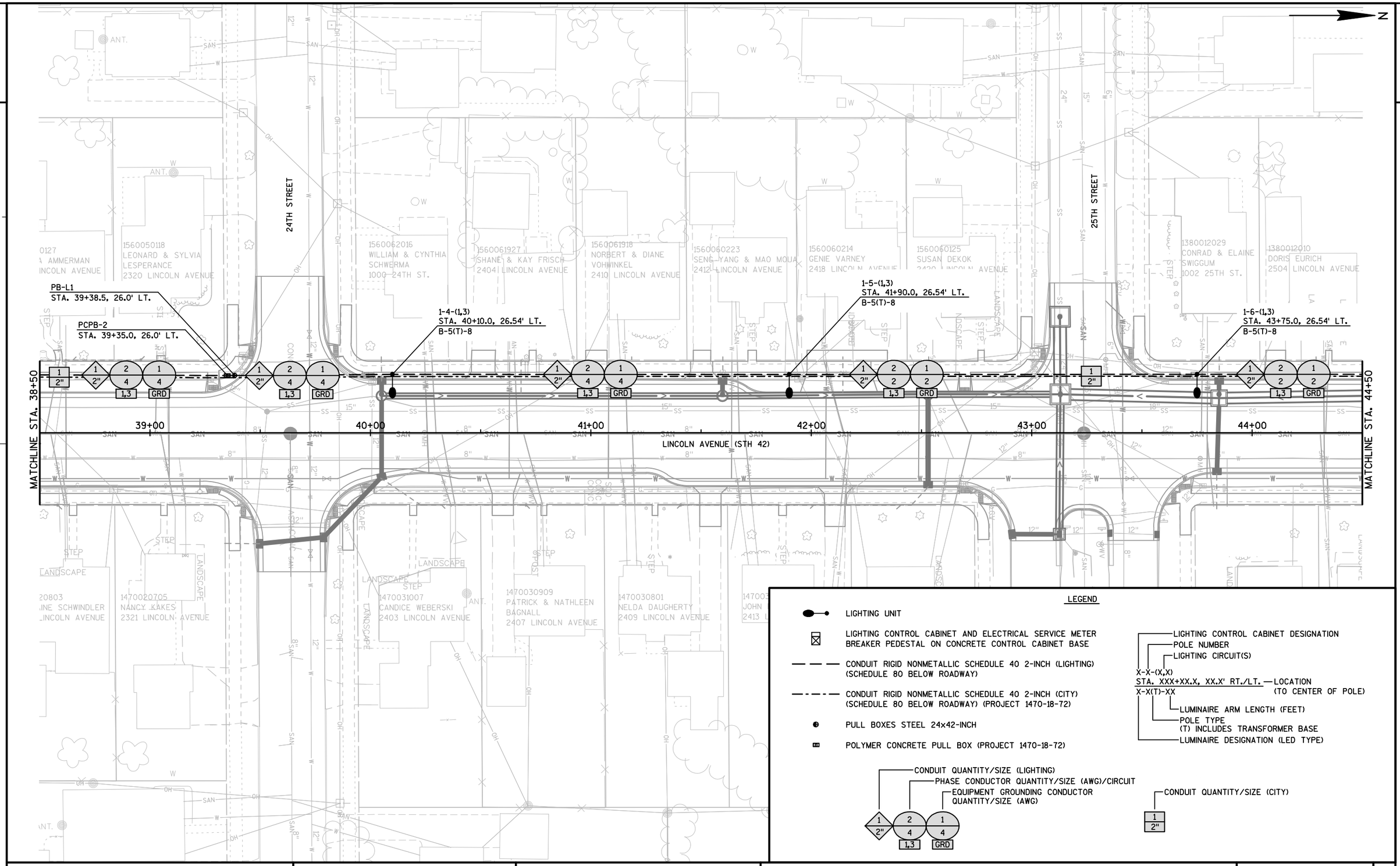
1 | 2 | 1
2" | 4 | 4
1,3 | GRD

- CONDUIT QUANTITY/SIZE (LIGHTING)
- PHASE CONDUCTOR QUANTITY/SIZE (AWG)/CIRCUIT
- EQUIPMENT GROUNDING CONDUCTOR QUANTITY/SIZE (AWG)

1 | 2"

- CONDUIT QUANTITY/SIZE (CITY)

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	STREET LIGHTING	SHEET 105	E



PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	STREET LIGHTING	SHEET 106	E

2

N

1380011921
MARY GRAMS
2510 LINCOLN AVENUE

1380010316
LINDA DAMROW
2514 LINCOLN AVENUE

1380010129
TINA CHRISTMAN
2422 LINCOLN AVENUE

26TH STREET

1380061920
DAVID & WENDY ZUNKER
2602 LINCOLN AVENUE

1380062019
BLAINE WALESH
2608 LINCOLN AVENUE

1380060100
GERALD & KENNETH MESSMAN
2618 LINCOLN AVENUE

27TH STREET

1-7-(1,3)
STA. 45+50.0, 26.54' LT.
B-5(T)-8

PCPB-3
STA. 46+57.0, 26.0' LT.

1-8-(1,3)
STA. 47+30.0, 26.54' LT.
B-5(T)-8

1-9-(1,3)
STA. 49+10.0, 26.54' LT.
B-5(T)-8

MATCHLINE STA. 44+50

MATCHLINE STA. 50+50

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

LINCOLN AVENUE (STH 42)

1470040907
& BIANCA
IEL
LINCOLN AVENUE

1470040809
DANIEL & JODI MILLER
2509 LINCOLN AVENUE

1470040701
JEROME & MICHELLE
LEGREVE
2513 LINCOLN AVENUE

1470040603
JANET PARMA &
DAVID STODOLA
2517 LINCOLN AVENUE

1470041002
JAMES ABNER
826 26TH ST.

LEGEND

- LIGHTING UNIT
- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (LIGHTING) (SCHEDULE 80 BELOW ROADWAY)
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (CITY) (SCHEDULE 80 BELOW ROADWAY) (PROJECT 1470-18-72)
- PULL BOXES STEEL 24x42-INCH
- POLYMER CONCRETE PULL BOX (PROJECT 1470-18-72)

X-X-(X,X)
STA. XXX+XX.X, XX.X' RT./LT.
X-X(T)-XX

- LIGHTING CONTROL CABINET DESIGNATION
- POLE NUMBER
- LIGHTING CIRCUIT(S)
- LOCATION (TO CENTER OF POLE)
- LUMINAIRE ARM LENGTH (FEET)
- POLE TYPE (T) INCLUDES TRANSFORMER BASE
- LUMINAIRE DESIGNATION (LED TYPE)

CONDUIT QUANTITY/SIZE (LIGHTING)
PHASE CONDUCTOR QUANTITY/SIZE (AWG)/CIRCUIT
EQUIPMENT GROUNDING CONDUCTOR QUANTITY/SIZE (AWG)

1 2" | 2 4 | 1 4 | 1,3 | GRD

CONDUIT QUANTITY/SIZE (CITY)

1 2"

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	STREET LIGHTING	SHEET 107	E

2

N

27TH STREET

28TH STREET

RUINS

WALLS

1380072017
EUGENE KAPLA
2704 LINCOLN AVENUE

1380070116
CLEM BECKER, INC.
2720 LINCOLN AVENUE

1380122008
CLEM BECKER, INC.
2806 LINCOLN AVENUE

138012
JOHN
GAIL
2822

1-10-(1,3)
STA. 50+88.0, 26.54' LT.
B-5(T)-8

1-11-(1,3)
STA. 52+57.0, 26.54' LT.
B-5(T)-8

PCPB-4
STA. 53+49.0, 26.0' LT.

1-12-(1,3)
STA. 54+26.0, 26.54' LT.
B-5(T)-8

PB-L2
STA. 55+50.0, 26.0' LT.

MATCHLINE STA. 50+50

MATCHLINE STA. 56+50

51+00 52+00 53+00 54+00 55+00 56+00

LINCOLN AVENUE (STH 42)

1470061000
STEVEN KAKES
828 27TH ST.

1470060902
RONALD & PATRICIA LUTZ
2711 LINCOLN AVENUE

1470060804
RONALD & PATRICIA LUTZ
2711 LINCOLN AVENUE

1470060706
ERVIN KRIZEK
2713 LINCOLN AVENUE

1470060608
PAUL & PAULINE SIMONAR
825 28TH ST.

LEGEND

- LIGHTING UNIT
- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (LIGHTING) (SCHEDULE 80 BELOW ROADWAY)
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (CITY) (SCHEDULE 80 BELOW ROADWAY) (PROJECT 1470-18-72)
- PULL BOXES STEEL 24x42-INCH
- POLYMER CONCRETE PULL BOX (PROJECT 1470-18-72)

X-X-(X,X)
STA. XXX+XX.X, XX.X' RT./LT.
X-X(T)-XX

- LIGHTING CONTROL CABINET DESIGNATION
- POLE NUMBER
- LIGHTING CIRCUIT(S)
- LOCATION (TO CENTER OF POLE)
- LUMINAIRE ARM LENGTH (FEET)
- POLE TYPE (T) INCLUDES TRANSFORMER BASE
- LUMINAIRE DESIGNATION (LED TYPE)

1 / 2" — CONDUIT QUANTITY/SIZE (LIGHTING)
2 / 4 — PHASE CONDUCTOR QUANTITY/SIZE (AWG)/CIRCUIT
1 / 4 — EQUIPMENT GROUNDING CONDUCTOR QUANTITY/SIZE (AWG)
1,3 GRD

1 / 2" — CONDUIT QUANTITY/SIZE (CITY)

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	STREET LIGHTING	SHEET 108 E

2

N

1-13-(1,3)
STA. 56+69.0, 26.54' LT.
B-5(T)-8

PB-L3
STA. 58+11.0, 26.0' LT.

1-14-(1,3)
STA. 58+98.0, 26.54' LT.
B-5(T)-8

PCPB-5
STA. 59+25.0, 26.0' LT.

1-15-(1,3)
STA. 60+76.0, 26.54' LT.
B-5(T)-8

MATCHLINE STA. 56+50

MATCHLINE STA. 62+50

57+00 58+00 59+00 60+00 61+00 62+00

30TH STREET

31ST STREET

29TH STREET

LINCOLN AVENUE (STH 42)

0126
THOMPSON &
LAUGHTER
LINCOLN AVENUE

1380130124
HOLLY'S HAIR SALON
SCOTT & HOLLY ANDERSON
2910 LINCOLN AVENUE

1622032002
RAYMOND & LISA
MIKEAL
1002 30TH ST.

1622030219
STEVEN KUBEC
3014 LINCOLN AVENUE

1622030120
LARRY & JOANNE
RAATZ
3020 LINCOLN AVENUE

1470080616
DAIRY QUEEN
JALO INC.
2901 LINCOLN AVENUE

1470110065
COOL CITY MOTEL
MARY BETH LECLAIR
3009 LINCOLN AVENUE

LEGEND

- LIGHTING UNIT
- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (LIGHTING) (SCHEDULE 80 BELOW ROADWAY)
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (CITY) (SCHEDULE 80 BELOW ROADWAY) (PROJECT 1470-18-72)
- PULL BOXES STEEL 24x42-INCH
- POLYMER CONCRETE PULL BOX (PROJECT 1470-18-72)

X-X-(X,X)
STA. XXX+XX.X, XX.X' RT./LT. — LOCATION (TO CENTER OF POLE)
X-X(T)-XX

- LIGHTING CONTROL CABINET DESIGNATION
- POLE NUMBER
- LIGHTING CIRCUIT(S)
- LUMINAIRE ARM LENGTH (FEET)
- POLE TYPE (T) INCLUDES TRANSFORMER BASE
- LUMINAIRE DESIGNATION (LED TYPE)

CONDUIT QUANTITY/SIZE (LIGHTING)
PHASE CONDUCTOR QUANTITY/SIZE (AWG)/CIRCUIT
EQUIPMENT GROUNDING CONDUCTOR QUANTITY/SIZE (AWG)

1 / 2" | 2 / 4 | 1 / 4 | 1,3 | GRD

CONDUIT QUANTITY/SIZE (CITY)

1 / 2"

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	STREET LIGHTING	SHEET 109	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\STREET LIGHTING.DWG
WIS 42 LINCOLN - STREET LIGHTING - LIGHTING_05
PLOT DATE : 9/12/2016 10:35 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 42

2

N

1622011980
ARSKE PROPERTIES, LLC

1622011881
PEKARSKE PROPERTIES, LLC
3108 LINCOLN AVENUE

1622010118
PEKARSKE PROPERTIES, LLC
3116 LINCOLN AVENUE

1623010749
THE LIGHTHOUSE ASSEMBLY
OF GOD CHURCH, INC.
3204 LINCOLN AVENUE

1623010239
DONNA WALOTKIEWICZ
3222 LINCOLN AVENUE

2312030001
ROBERT LAPOINT III
3109 LINCOLN AVENUE

MATCHLINE STA. 62+50

MATCHLINE STA. 68+50

63+00 64+00 65+00 66+00 67+00 68+00

LINCOLN AVENUE (STH 42)

1-16-(1,3)
STA. 62+53.0, 26.54' LT.
B-5(T)-8

1-17-(1,3)
STA. 64+16.0, 26.54' LT.
B-5(T)-8

PCPB-6
STA. 64+96.0, 26.0' LT.

PB-L4
STA. 65+00.0, 26.0' LT.

PB-L5
STA. 65+00.0, 26.0' RT.

PCPB-7
STA. 64+96.0, 26.0' RT.

LCC-1
STA. 65+00.0, 48.5' RT.
CONSTRUCT CONCRETE CONTROL CABINET BASE TYPE L24 SO THAT IS ABUTS THE EXISTING TWO RIVERS WATER & LIGHT CONCRETE BASE. THE TOP OF THE CONCRETE BASE SHALL BE FLUSH TO THE ADJACENT BASE.

1-18-(2,4)
STA. 65+93.0, 26.54' RT.
B-5(T)-8

1-19-(2,4)
STA. 67+63.0, 26.54' RT.
B-5(T)-8

LEGEND

- LIGHTING UNIT
- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (LIGHTING) (SCHEDULE 80 BELOW ROADWAY)
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (CITY) (SCHEDULE 80 BELOW ROADWAY) (PROJECT 1470-18-72)
- PULL BOXES STEEL 24x42-INCH
- POLYMER CONCRETE PULL BOX (PROJECT 1470-18-72)

X-X-(X,X)
STA. XXX+XX.X, XX.X' RT./LT.
X-X(T)-XX

- LIGHTING CONTROL CABINET DESIGNATION
- POLE NUMBER
- LIGHTING CIRCUIT(S)
- LOCATION (TO CENTER OF POLE)
- LUMINAIRE ARM LENGTH (FEET)
- POLE TYPE (T) INCLUDES TRANSFORMER BASE
- LUMINAIRE DESIGNATION (LED TYPE)

- CONDUIT QUANTITY/SIZE (LIGHTING)
- PHASE CONDUCTOR QUANTITY/SIZE (AWG)/CIRCUIT
- EQUIPMENT GROUNDING CONDUCTOR QUANTITY/SIZE (AWG)
- CONDUIT QUANTITY/SIZE (CITY)

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	STREET LIGHTING	SHEET 110	E

2

N

33RD STREET

34TH STREET

1623010131
DONNA WALOTKIEWICZ
3222 LINCOLN AVENUE

1624082007
JOHN TORRISON

1624080116
WALTER & AMALIA HARROLD
3312 LINCOLN AVENUE

1624012002
MERWYNN TRADE GROUP, LLC.
1010 34TH ST.

1624010120
MERWYNN TRADE GROUP, LI

MATCHLINE STA. 68+50

MATCHLINE STA. 74+50

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

LINCOLN AVENUE (STH 42)

SIGN 7.7

SIGN 7.16

1-20-(2,4)
STA. 69+40.0, 26.54' RT.
B-5(T)-8

1-21-(2,4)
STA. 71+47.0, 26.54' RT.
B-5(T)-8

PCPB-8
STA. 71+85.0, 26.0' RT.

1-22-(2,4)
STA. 72+77.0, 25.50' RT.
B-5(T)-8

PB-L6
STA. 72+60.5, 26.0' RT.

2312030109
KRAJNIK CHEVROLET
3303 LINCOLN AVENUE

CHARTER COMMUNICATIONS
3315 LINCOLN AVENUE

TOWER

LEGEND

- LIGHTING UNIT
- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE METER BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (LIGHTING) (SCHEDULE 80 BELOW ROADWAY)
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (CITY) (SCHEDULE 80 BELOW ROADWAY) (PROJECT 1470-18-72)
- PULL BOXES STEEL 24x42-INCH
- POLYMER CONCRETE PULL BOX (PROJECT 1470-18-72)

X-X-(X,X)
STA. XXX+XX.X, XX.X' RT./LT.
X-X(T)-XX

- LIGHTING CONTROL CABINET DESIGNATION
- POLE NUMBER
- LIGHTING CIRCUIT(S)
- LOCATION (TO CENTER OF POLE)
- LUMINAIRE ARM LENGTH (FEET)
- POLE TYPE (T) INCLUDES TRANSFORMER BASE
- LUMINAIRE DESIGNATION (LED TYPE)

- CONDUIT QUANTITY/SIZE (LIGHTING)
- PHASE CONDUCTOR QUANTITY/SIZE (AWG)/CIRCUIT
- EQUIPMENT GROUNDING CONDUCTOR QUANTITY/SIZE (AWG)
- CONDUIT QUANTITY/SIZE (CITY)

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	STREET LIGHTING	SHEET 111	E

2

N

3090010603
LARIS VALDRE
1448 TERRACE COURT

3090010505
TIMOTHY LOHR
1005 35TH PLACE

2361010011
STREU CONSTRUCTION COMP.
3612 LINCOLN AVENUE

35TH STREET

35TH PLACE

MATCHLINE STA. 74+50

75+00 76+00 77+00 78+00 79+00 80+00

LINCOLN AVENUE (STH 42)

1-23-(2,4)
STA. 75+00.0, 25.50' RT.
B-5(T)-8

1-24-(2,4)
STA. 77+10.0, 25.50' RT.
B-5(T)-8

PCPB-9
STA. 79+15.0, 27.7' RT.

1-25-(2,4)
STA. 79+20.0, 25.50' RT.
B-5(T)-8

CAP CONDUIT STUBS
STA. 79+45.0

2312020557
BRUCE MOFFATT
STORAGE UNITS
3501 LINCOLN AVENUE

2312020209
TWO RIVERS BUSES
3515 LINCOLN AVENU

LEGEND

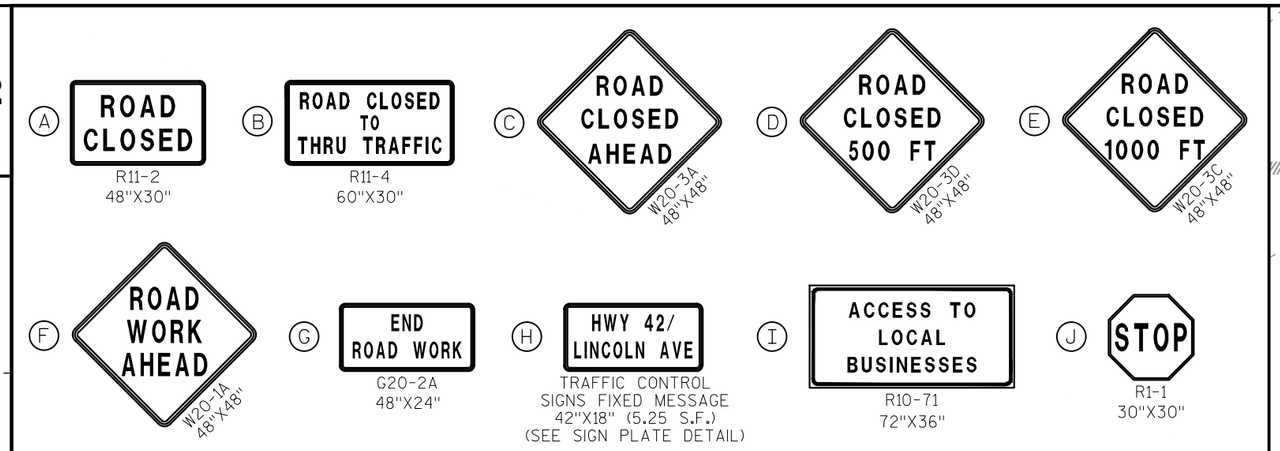
- LIGHTING UNIT
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- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (LIGHTING) (SCHEDULE 80 BELOW ROADWAY)
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (CITY) (SCHEDULE 80 BELOW ROADWAY) (PROJECT 1470-18-72)
- PULL BOXES STEEL 24x42-INCH
- POLYMER CONCRETE PULL BOX (PROJECT 1470-18-72)

X-X-(X,X)
STA. XXX+XX.X, XX.X' RT./LT.
X-X(T)-XX

- LIGHTING CONTROL CABINET DESIGNATION
- POLE NUMBER
- LIGHTING CIRCUIT(S)
- LOCATION (TO CENTER OF POLE)
- LUMINAIRE ARM LENGTH (FEET)
- POLE TYPE (T) INCLUDES TRANSFORMER BASE
- LUMINAIRE DESIGNATION (LED TYPE)

- CONDUIT QUANTITY/SIZE (LIGHTING)
- PHASE CONDUCTOR QUANTITY/SIZE (AWG)/CIRCUIT
- EQUIPMENT GROUNDING CONDUCTOR QUANTITY/SIZE (AWG)
- CONDUIT QUANTITY/SIZE (CITY)

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	STREET LIGHTING	SHEET 112	E



2

EAST TWIN RIVER
42
WILSON STREET
ROGERS STREET
JACKSON STREET
EMMET STREET
GARFIELD STREET
POLK STREET
PIERCE STREET
LINCOLN AVENUE
HAMILTON DRIVE
RIVERVIEW DRIVE
SAYER AVENUE
TERRACE COURT
BLUE HERON DRIVE
MAHOGANY RUN
VIETNAM VETERANS MEMORIAL PARK
FAIRVIEW GOLF COURSE
20TH STREET
21ST STREET
22ND STREET
23RD STREET
24TH STREET
25TH STREET
26TH STREET
27TH STREET
28TH STREET
29TH STREET
30TH STREET
31ST STREET
32ND STREET
33RD STREET
34TH STREET
35TH STREET
35TH PLACE
GROCERY STORE ACCESS
GAS STATION NORTHERN ACCESS
INTERSECTION TO REMAIN OPEN UNTIL AFTER THE SCHOOL YEAR HAS BEEN COMPLETED.
PICNIC HILL PARK
NESHOTAH PARK
ZLATNIK DRIVE
COUNTY O
SANDY BAY ROAD
PINE TREE DRIVE
SANDY RIDGE DRIVE
PIERCE COURT

LEGEND

WORK AREA
POST MOUNTED SIGN
TYPE III BARRICADE WITH/WITHOUT SIGN
TRAFFIC FLOW ARROW

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	TRAFFIC CONTROL OVERVIEW	SHEET 113	E

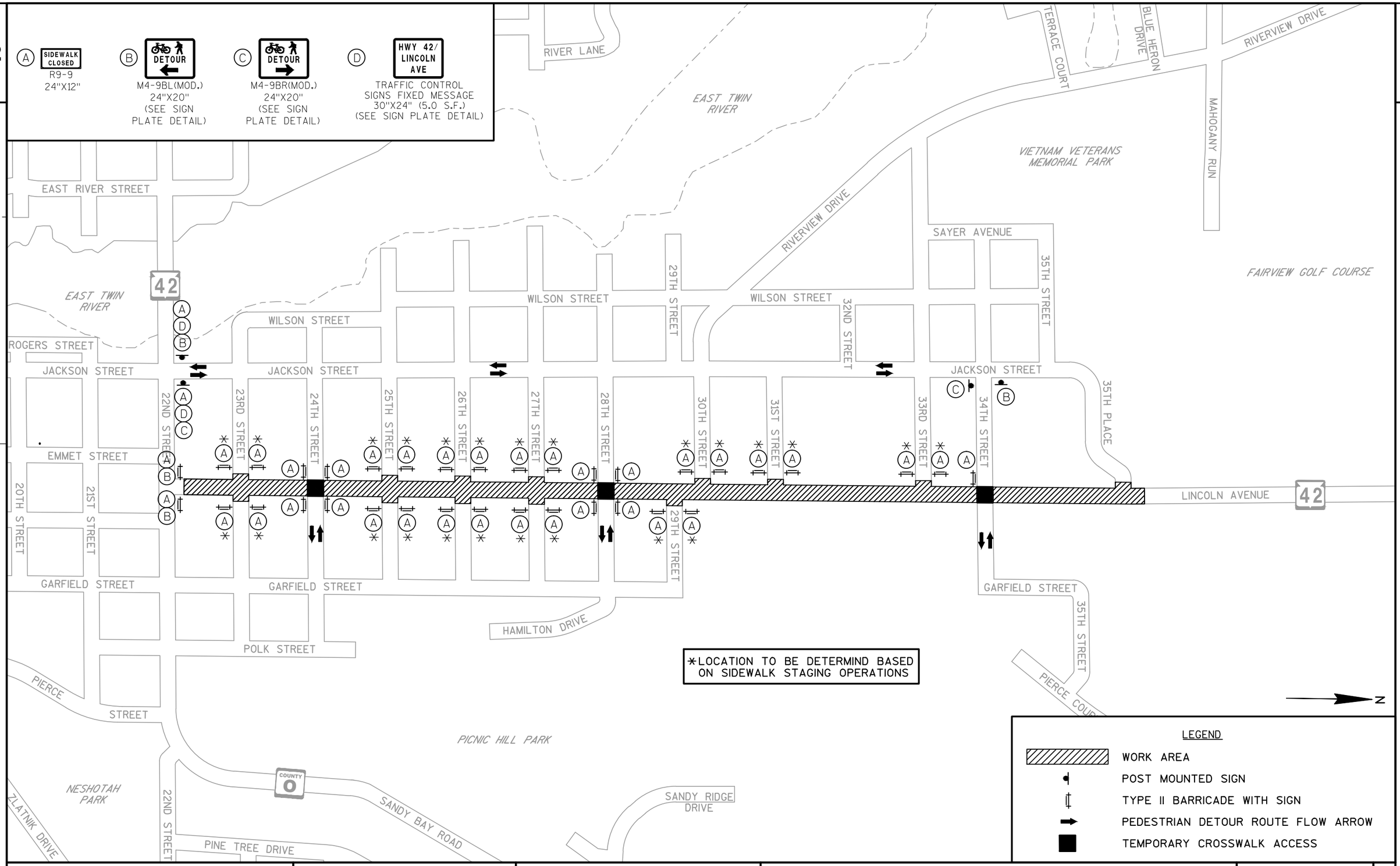
2

(A) SIDEWALK CLOSED
R9-9
24"X12"

(B) DETOUR
M4-9BL(MOD.)
24"X20"
(SEE SIGN PLATE DETAIL)

(C) DETOUR
M4-9BR(MOD.)
24"X20"
(SEE SIGN PLATE DETAIL)

(D) HWY 42/ LINCOLN AVE
TRAFFIC CONTROL SIGNS FIXED MESSAGE
30"X24" (5.0 S.F.)
(SEE SIGN PLATE DETAIL)



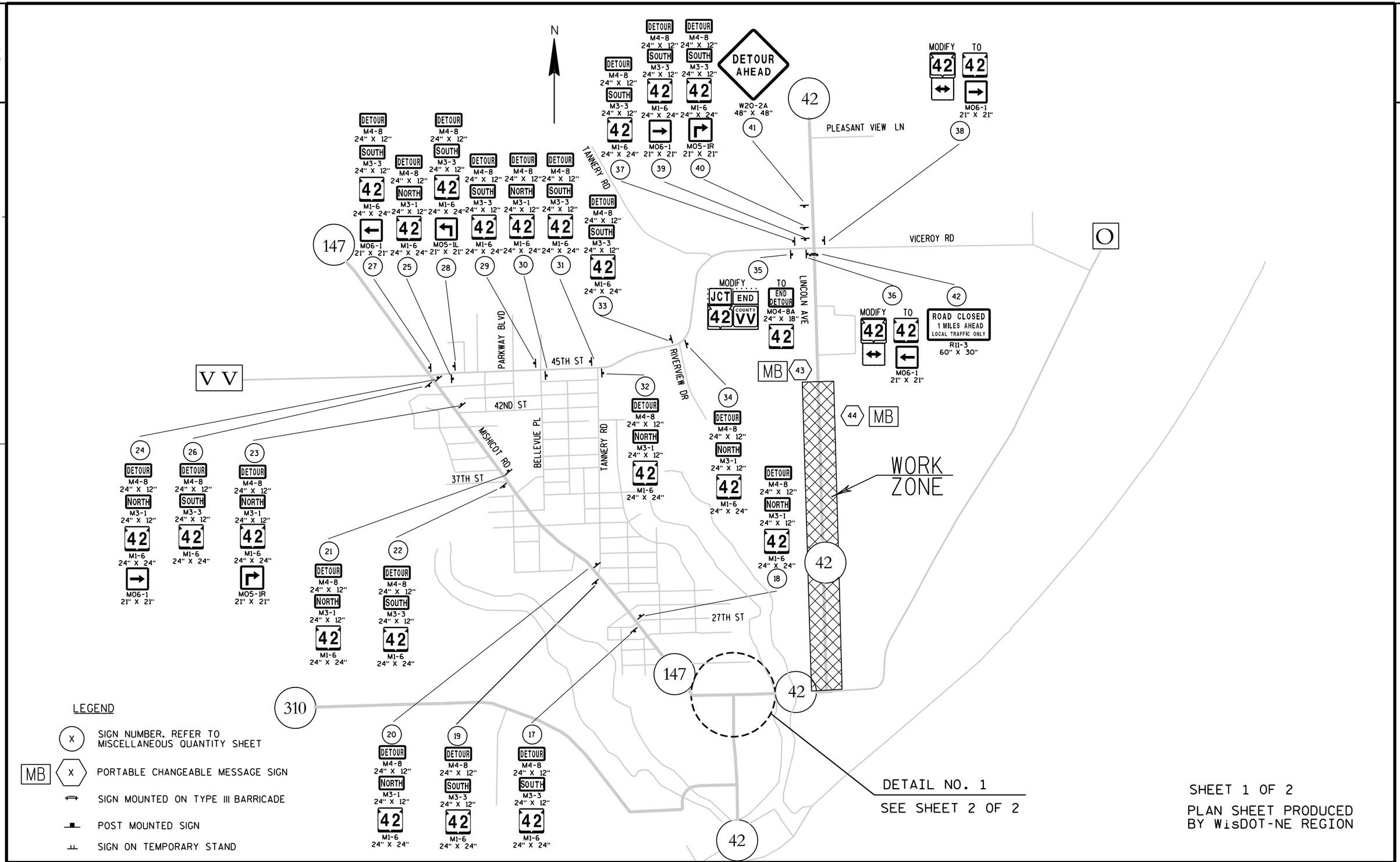
*LOCATION TO BE DETERMIND BASED ON SIDEWALK STAGING OPERATIONS

LEGEND

- WORK AREA
- POST MOUNTED SIGN
- TYPE II BARRICADE WITH SIGN
- PEDESTRIAN DETOUR ROUTE FLOW ARROW
- TEMPORARY CROSSWALK ACCESS

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PEDESTRIAN DETOUR SIGNING	SHEET 114	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\PEDESTRIAN DETOUR.DWG PLOT DATE : 6/20/2016 1:11 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 0.003340



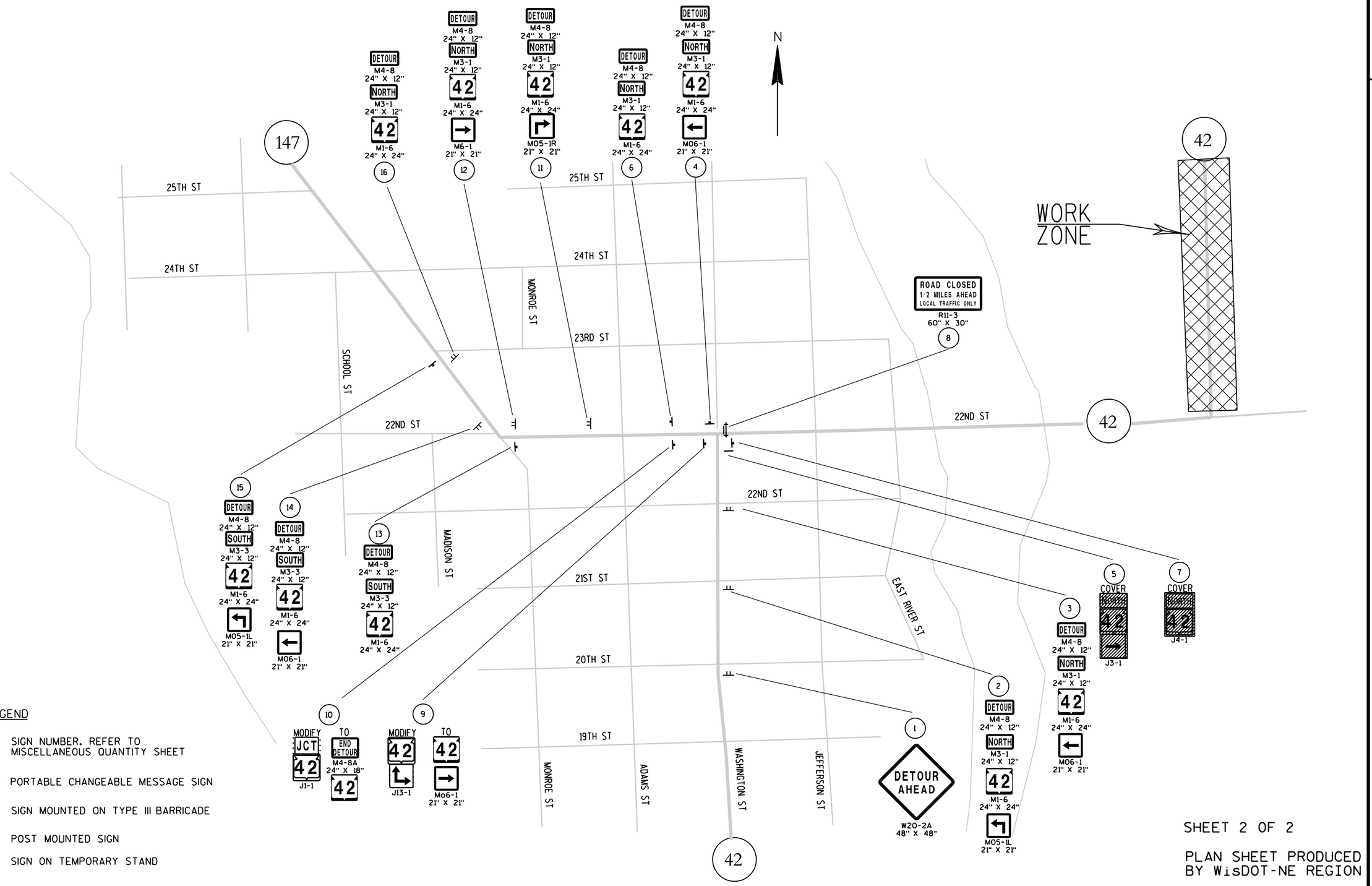
SHEET 1 OF 2

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	DETOUR SIGNING DETAIL	SHEET	E

FILE NAME : P:\90s\93\00093170\CADD\Detour\027001_dt.dgn PLOT DATE : 6/20/2016 PLOT BY : jdolens PLOT NAME : PLOT SCALE : 1:2100

WISDOT/CADDS SHEET 42

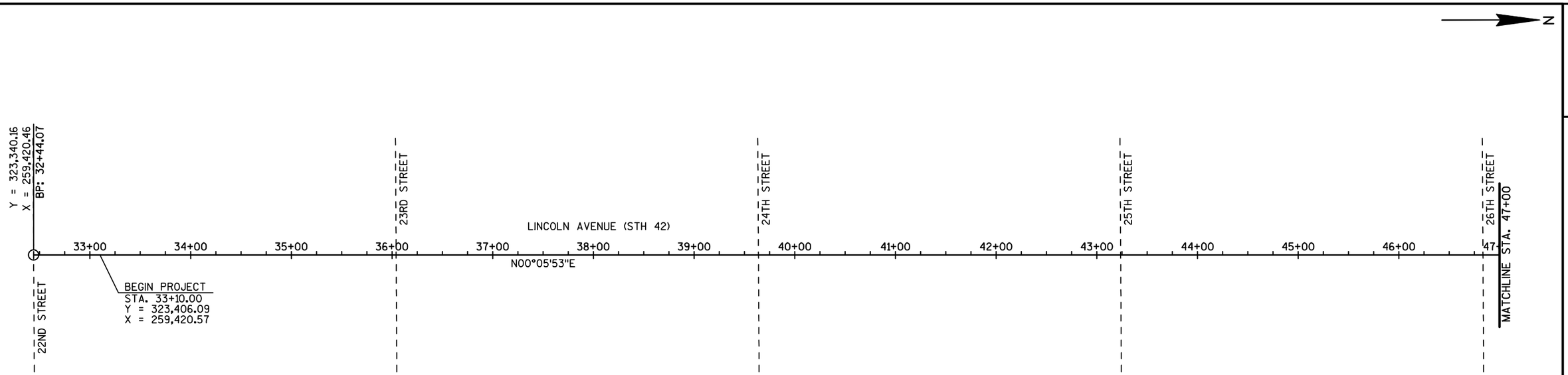


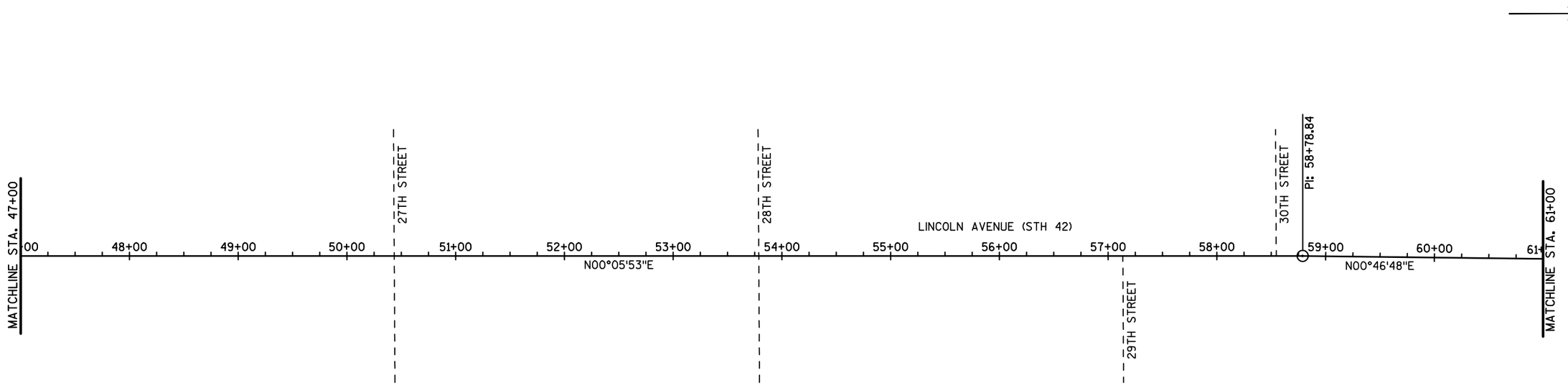
SHEET 2 OF 2

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	DETOUR SIGNING DETAIL	SHEET E

FILE NAME : P:\90s\93\00093170\CADD\Detour\027002_dt.dgn PLOT DATE : 6/20/2016 PLOT BY : jdolens PLOT NAME : PLOT SCALE : 1:420
WISDOT/CADDS SHEET 42





LINCOLN AVENUE P.I. DATA

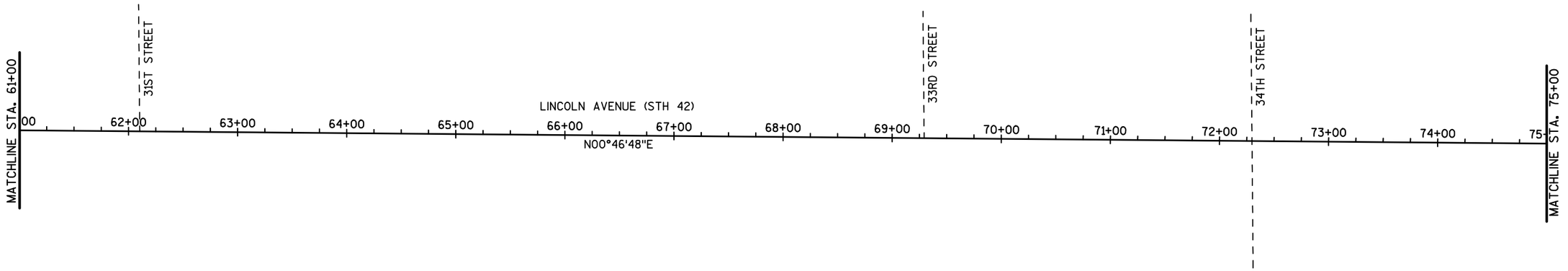
P.I. STA. = 58+78.84
Y = 325,974.92
X = 259,424.97
Δ. = 00°40'55"

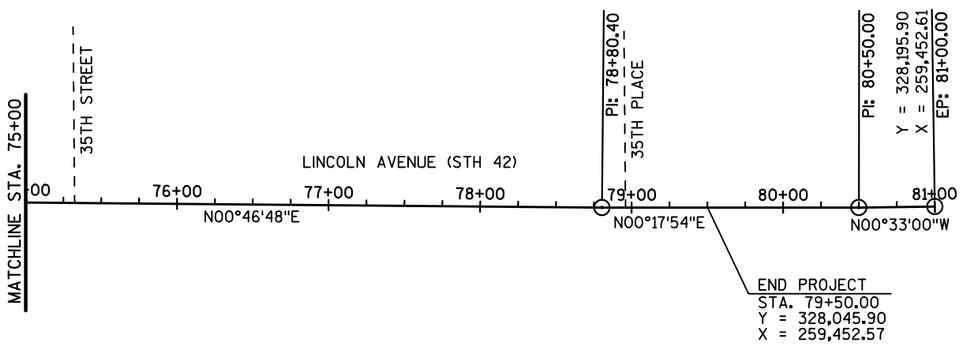
PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	ALIGNMENT OVERVIEW	SHEET	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\ALIGNMENT OVERVIEW.DWG
WIS 42 LINCOLN - ALIGNMENT OVERVIEW - ALIGN_01

PLOT DATE : 3/17/2016 6:04 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1" = 100'_XREF

WISDOT/CADDS SHEET 44





LINCOLN AVENUE P.I. DATA

P.I. STA. = 78+80.40	P.I. STA. = 80+50.00
Y = 327,976.29	Y = 328,145.89
X = 259,452.21	X = 259,453.09
Δ. = 00°28'54"	Δ. = 00°15'06"

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	ALIGNMENT OVERVIEW	SHEET 118	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\ALIGNMENT OVERVIEW.DWG
WIS 42 LINCOLN - ALIGNMENT OVERVIEW - ALIGN_02

PLOT DATE : 3/17/2016 6:04 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1" = 100'_XREF

WISDOT/CADDS SHEET 44

2

THE FOUR SEAS BUILDING PARTNERSHIP LLP
1010 22ND ST.

22ND STREET (STH 42)

SIGN POST
UTILITY POLE
44.8'
6.2'
16.3'
SIGN POST
CP*800
CHISELED CROSS
Y=323,520.16
X=259,394.08

SIGN POST
9.0'
19.1'
CENTER STORM SEWER MANHOLE
CP*809
CHISELED CROSS
Y=323,312.40
X=259,420.63
28.5'
CENTER SANITARY SEWER MANHOLE

33+00
34+00

LINCOLN AVENUE (STH 42)

1470011306
PATSY'S HWY 42 MOBILE MART, LLC
816 22ND ST

CANOPY

1560060214
GENIE VARNEY
2418 LINCOLN AVENUE

1560060125
SUSAN DEKOK
2420 LINCOLN AVENUE

25TH STREET

CP*803
CHISELED CROSS
Y=324,373.66
X=259,393.40
25.0'
UTILITY POLE
28.5'
10.0'
CENTER WATER VALVE
CENTER STORM SEWER INLET

1380012029
CONRAD & ELAINE SWIGGUM
1002 25TH ST.

1380012010
DORIS EURICH
2504 LINCOLN AVENUE

42+00
43+00
44+00

LINCOLN AVENUE (STH 42)

1470030703
JOHN EDWARD RUETHER
2413 LINCOLN AVENUE

1470030605
AARON & KRISTEN SCHULTZ
827 25TH ST.

1470041005
CLYDE & ELLEN SAHN
828 25TH ST.

1470040907
BRIAN & BIANCA MCDANIEL
2505 LINCOLN AVE

1380060100
GERALD & KENNETH MESSMAN
2618 LINCOLN AVENUE

27TH STREET

1380072017
EUGENE KAPLA
2704 LINCOLN AVENUE

CP*805
CHISELED CROSS
Y=325,186.53
X=259,394.71
CENTER WATER MANHOLE
33.1'
9.8'
CENTER GAS VALVE
26.0'
CENTER WATER VALVE

49+00
50+00
51+00
52+00

CENTER SANITARY SEWER MANHOLE
42.0'
CENTER WATER VALVE
16.2'
19.1'
CP*825
CHISELED CROSS
Y=325,107.92
X=259,452.54
CENTER STORM SEWER INLET

LINCOLN AVENUE (STH 42)

1470050708
ELIZABETH BLAZER
2615 LINCOLN AVENUE

1470050600
DONALD & KATHRYN KUBEC
2617 LINCOLN AVENUE

1470061000
STEVEN KAKES
828 27TH ST.

1470060902
RONALD & PATRICIA LUTZ
2711 LINCOLN AVENUE

1380070116
CLEM BECKER, INC.
2720 LINCOLN AVENUE

28TH STREET

1380122008
CLEM BECKER, INC.
2806 LINCOLN AVENUE

CP*821
PK NAIL
Y=325,542.22
X=259,388.58
UTILITY POLE
46.5'
16.4'
34.5'
CENTER WATER VALVE
CENTER WATER VALVE

53+00
54+00
55+00

LINCOLN AVENUE (STH 42)

SIGN POST
WOOD FENCE CORNER
4.6'
20.6'
CP*824
CHISELED CROSS
Y=325,448.93
X=259,458.74
UTILITY POLE
4.8'

1470060706
ERVIN KRIZEK
2713 LINCOLN AVENUE

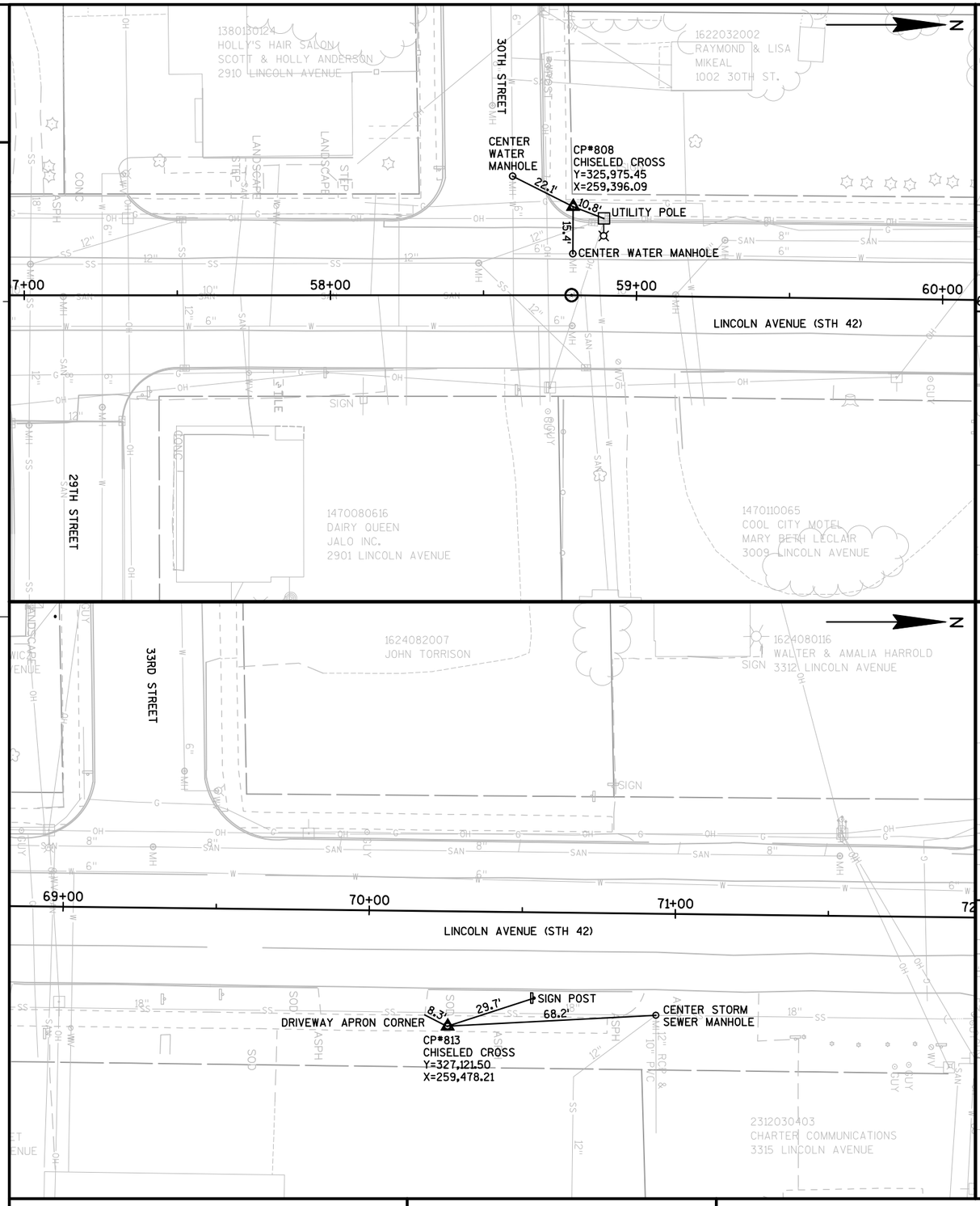
1470060608
PAUL & PAULETTE SIMONAR
825 28TH ST.

1470071008
PAUL & PAULETTE SIMONAR
828 28TH ST.

1470070893
THOMAS TERP
2809 LINCOLN AVENUE

PROJECT NO:1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CONTROL POINT TIES	SHEET 119	E

2



PROJECT NO:1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CONTROL POINT TIES	SHEET 120	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\CONTROL POINT TIES.DWG
WIS 42 LINCOLN - CONTROL POINT TIES - CP_02
PLOT DATE : 5/26/2016 3:07 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1" = 40'_XREF
WISDOT/CADDS SHEET 42

DATE 11OCT16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1470-18-71 QUANTITY	1470-18-72 QUANTITY
0010	201.0105	Clearing	STA	4.000	4.000	
0020	201.0120	Clearing	ID	160.000	160.000	
0030	201.0205	Grubbing	STA	4.000	4.000	
0040	201.0220	Grubbing	ID	201.000	201.000	
0050	203.0100	Removing Small Pipe Culverts	EACH	6.000	6.000	
0060	204.0100	Removing Pavement	SY	17,515.000	17,515.000	
0070	204.0110	Removing Asphaltic Surface	SY	691.000	691.000	
0080	204.0150	Removing Curb & Gutter	LF	2,652.000	2,652.000	
0090	204.0155	Removing Concrete Sidewalk	SY	4,131.000	4,131.000	
0100	204.0210	Removing Manholes	EACH	13.000	13.000	
0110	204.0220	Removing Inlets	EACH	36.000	36.000	
0120	204.0245	Removing Storm Sewer (size) 01. 12-Inch or Less	LF	1,703.000	1,703.000	
0130	204.0245	Removing Storm Sewer (size) 02. 15 to 18-Inch	LF	2,830.000	2,830.000	
0140	204.0245	Removing Storm Sewer (size) 03. 24-Inch	LF	171.000	171.000	
0150	204.0245	Removing Storm Sewer (size) 04. 36-Inch	LF	61.000	61.000	
0160	205.0100	Excavation Common	CY	28,972.000	28,972.000	
0170	213.0100	Finishing Roadway (project) 01. 1470-18-71	EACH	1.000	1.000	
0180	305.0110	Base Aggregate Dense 3/4-Inch	TON	851.000	851.000	
0190	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	10,010.000	10,010.000	
0200	312.0110	Select Crushed Material	TON	23,051.000	23,051.000	
0210	405.0200	Coloring Concrete Custom	CY	237.000	237.000	
0220	415.0080	Concrete Pavement 8-Inch	SY	22,489.000	22,489.000	
0230	415.0210	Concrete Pavement Gaps	EACH	10.000	10.000	
0240	416.0160	Concrete Driveway 6-Inch	SY	1,265.000	1,265.000	
0250	416.0260	Concrete Driveway HES 6-Inch	SY	181.000	181.000	
0260	416.0610	Drilled Tie Bars	EACH	18.000	18.000	
0270	416.0620	Drilled Dowel Bars	EACH	527.000	527.000	
0280	455.0605	Tack Coat	GAL	10.000	10.000	
0290	460.2000	Incentive Density HMA Pavement	DOL	40.000	40.000	
0300	460.5223	HMA Pavement 3 LT 58-28 S	TON	33.000	33.000	
0310	460.5224	HMA Pavement 4 LT 58-28 S	TON	28.000	28.000	
0320	465.0105	Asphaltic Surface	TON	290.000	290.000	
0330	520.8000	Concrete Collars for Pipe	EACH	2.000	2.000	
0340	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	1.000	1.000	
0350	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	9,088.000	9,088.000	
0360	601.0600	Concrete Curb Pedestrian	LF	339.000	339.000	
0370	602.0405	Concrete Sidewalk 4-Inch	SF	39,705.000	39,705.000	
0380	602.0415	Concrete Sidewalk 6-Inch	SF	4,820.000	4,820.000	
0390	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	688.000	688.000	
0400	602.1500	Concrete Steps	SF	9.000	9.000	
0410	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	843.000	843.000	
0420	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	331.000	331.000	
0430	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	378.000	378.000	
0440	608.0321	Storm Sewer Pipe Reinforced Concrete Class III 21-Inch	LF	34.000	34.000	
0450	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	1,367.000	1,367.000	

3

DATE 11OCT16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1470-18-71 QUANTITY	1470-18-72 QUANTITY
0460	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	347.000	347.000	
0470	608.0336	Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	LF	1,353.000	1,353.000	
0480	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	263.000	263.000	
0490	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	96.000	96.000	
0500	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	308.000	308.000	
0510	608.0430	Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	LF	64.000	64.000	
0520	608.6008	Storm Sewer Pipe Composite 8-Inch	LF	42.000	42.000	
0530	610.0138	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 38x60-Inch	LF	35.000	35.000	
0540	610.0414	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 14x23-Inch	LF	426.000	426.000	
0550	610.0419	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch	LF	11.000	11.000	
0560	610.0424	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 24x38-Inch	LF	129.000	129.000	
0570	610.0429	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 29x45-Inch	LF	157.000	157.000	
0580	610.0434	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 34x53-Inch	LF	412.000	412.000	
0590	611.0530	Manhole Covers Type J	EACH	29.000	29.000	
0600	611.0624	Inlet Covers Type H	EACH	75.000	75.000	
0610	611.0642	Inlet Covers Type MS	EACH	2.000	2.000	
0620	611.2004	Manholes 4-FT Diameter	EACH	10.000	10.000	
0630	611.2005	Manholes 5-FT Diameter	EACH	13.000	13.000	
0640	611.2006	Manholes 6-FT Diameter	EACH	2.000	2.000	
0650	611.2044	Manholes 4x4-FT	EACH	4.000	4.000	
0660	611.2055	Manholes 5x5-FT	EACH	2.000	2.000	
0670	611.2066	Manholes 6x6-FT	EACH	8.000	8.000	
0680	611.3004	Inlets 4-FT Diameter	EACH	15.000	15.000	
0690	611.3230	Inlets 2x3-FT	EACH	53.000	53.000	
0700	611.3901	Inlets Median 1 Grate	EACH	2.000	2.000	
0710	611.8110	Adjusting Manhole Covers	EACH	2.000	2.000	
0720	611.8115	Adjusting Inlet Covers	EACH	2.000	2.000	
0730	611.9800.S	Pipe Grates	EACH	1.000	1.000	
0740	616.0700.S	Fence Safety	LF	500.000	500.000	
0750	619.1000	Mobilization	EACH	1.000	0.660	0.340
0760	624.0100	Water	MGAL	128.000	128.000	
0770	625.0100	Topsoil	SY	10,723.000	10,723.000	
0780	625.0105	Topsoil	CY	134.000	134.000	
0790	627.0200	Mulching	SY	3,618.000	3,618.000	
0800	628.1504	Silt Fence	LF	750.000	750.000	
0810	628.1520	Silt Fence Maintenance	LF	1,500.000	1,500.000	
0820	628.1905	Mobilizations Erosion Control	EACH	12.000	12.000	
0830	628.1910	Mobilizations Emergency Erosion Control	EACH	6.000	6.000	
0840	628.2006	Erosion Mat Urban Class I Type A	SY	1,452.000	1,452.000	

3

DATE 11OCT16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1470-18-71 QUANTITY	1470-18-72 QUANTITY
0850	628.7005	Inlet Protection Type A	EACH	3.000	3.000	
0860	628.7015	Inlet Protection Type C	EACH	32.000	32.000	
0870	628.7020	Inlet Protection Type D	EACH	108.000	108.000	
0880	628.7555	Culvert Pipe Checks	EACH	2.000	2.000	
0890	628.7560	Tracking Pads	EACH	2.000	2.000	
0900	629.0210	Fertilizer Type B	CWT	6.760	6.760	
0910	630.0140	Seeding Mixture No. 40	LB	90.000	90.000	
0920	631.0300	Sod Water	MGAL	320.000	320.000	
0930	631.1000	Sod Lawn	SY	5,653.000	5,653.000	
0940	632.0101	Trees (species) (size) (root) 01. Arborvitae, American 'Techny', 5-FT, B&B	EACH	38.000	38.000	
0950	632.0101	Trees (species) (size) (root) 02. Japanese Tree Lilac, 'Ivory Silk', 2.5" Cal., B&B	EACH	17.000	17.000	
0960	632.0101	Trees (species) (size) (root) 03. Littleleaf Linden, 'Greenspire', 2.5" Cal., B&B	EACH	12.000	12.000	
0970	632.0101	Trees (species) (size) (root) 04. Honeylocust, 'Skyline', 2.5" Cal., B&B	EACH	22.000	22.000	
0980	632.0101	Trees (species) (size) (root) 05. Elm, 'Princeton', 2.5" Cal., B&B	EACH	16.000	16.000	
0990	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	10.000	10.000	
1000	634.0410	Posts Wood 4x4-Inch X 10-FT	EACH	1.000	1.000	
1010	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	1.000	1.000	
1020	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	6.000	6.000	
1030	634.0810	Posts Tubular Steel 2x2-Inch X 10-FT	EACH	31.000	31.000	
1040	634.0811	Posts Tubular Steel 2x2-Inch X 11-FT	EACH	27.000	27.000	
1050	634.0812	Posts Tubular Steel 2x2-Inch X 12-FT	EACH	11.000	11.000	
1060	637.2210	Signs Type II Reflective H	SF	412.290	412.290	
1070	637.2230	Signs Type II Reflective F	SF	25.500	25.500	
1080	638.2102	Moving Signs Type II	EACH	5.000	5.000	
1090	638.2602	Removing Signs Type II	EACH	48.000	48.000	
1100	638.3000	Removing Small Sign Supports	EACH	37.000	37.000	
1110	638.4000	Moving Small Sign Supports	EACH	4.000	4.000	
1120	642.5201	Field Office Type C	EACH	1.000	1.000	
1130	643.0100	Traffic Control (project) 01. 1470-18-71	EACH	1.000	1.000	
1140	643.0410	Traffic Control Barricades Type II	DAY	7,280.000	7,280.000	
1150	643.0420	Traffic Control Barricades Type III	DAY	19,628.000	19,628.000	
1160	643.0705	Traffic Control Warning Lights Type A	DAY	37,554.000	37,554.000	
1170	643.0900	Traffic Control Signs	DAY	22,502.000	22,502.000	
1180	643.0920	Traffic Control Covering Signs Type II	EACH	2.000	2.000	
1190	643.1000	Traffic Control Signs Fixed Message	SF	31.000	31.000	
1200	643.1050	Traffic Control Signs PCMS	DAY	12.000	12.000	
1210	643.2000	Traffic Control Detour (project) 01. 1470-18-71	EACH	1.000	1.000	
1220	643.3000	Traffic Control Detour Signs	DAY	23,920.000	23,920.000	
1230	644.1601.S	Temporary Curb Ramp	EACH	34.000	34.000	
1240	644.1616.S	Temporary Pedestrian Safety Fence	LF	1,800.000	1,800.000	
1250	646.0106	Pavement Marking Epoxy 4-Inch	LF	17,795.000	17,795.000	
1260	646.0126	Pavement Marking Epoxy 8-Inch	LF	195.000	195.000	
1270	646.0600	Removing Pavement Markings	LF	125.000	125.000	
1280	647.0166	Pavement Marking Arrows Epoxy Type 2	EACH	4.000	4.000	
1290	647.0206	Pavement Marking Arrows Bike Lane Epoxy	EACH	25.000	25.000	
1300	647.0306	Pavement Marking Symbols Bike Lane Epoxy	EACH	27.000	27.000	

3

DATE 11OCT16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1470-18-71 QUANTITY	1470-18-72 QUANTITY
1310	647.0356	Pavement Marking Words Epoxy	EACH	2.000	2.000	
1320	647.0406	Pavement Marking Words Bike Lane Epoxy	EACH	2.000	2.000	
1330	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	318.000	318.000	
1340	647.0656	Pavement Marking Parking Stall Epoxy	LF	55.000	55.000	
1350	647.0766	Pavement Marking Crosswalk Epoxy 6-Inch	LF	3,225.000	3,225.000	
1360	650.4000	Construction Staking Storm Sewer	EACH	112.000	112.000	
1370	650.4500	Construction Staking Subgrade	LF	4,640.000	4,640.000	
1380	650.7000	Construction Staking Concrete Pavement	LF	4,640.000	4,640.000	
1390	650.8500	Construction Staking Electrical Installations (project) 01. 1470-18-71	LS	1.000	1.000	
1400	650.8500	Construction Staking Electrical Installations (project) 02. 1470-18-72	LS	1.000		1.000
1410	650.9910	Construction Staking Supplemental Control (project) 01.1470-18-71	LS	1.000	1.000	
1420	650.9920	Construction Staking Slope Stakes	LF	4,640.000	4,640.000	
1430	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	8,028.000	4,027.000	4,001.000
1440	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	45.000	45.000	
1450	652.0325	Conduit Rigid Nonmetallic Schedule 80 2-Inch	LF	1,425.000	764.000	661.000
1460	653.0140	Pull Boxes Steel 24x42-Inch	EACH	6.000	6.000	
1470	654.0101	Concrete Bases Type 1	EACH	2.000	2.000	
1480	654.0105	Concrete Bases Type 5	EACH	25.000	25.000	
1490	654.0224	Concrete Control Cabinet Bases Type L24	EACH	1.000	1.000	
1500	655.0610	Electrical Wire Lighting 12 AWG	LF	6,012.000	6,012.000	
1510	655.0620	Electrical Wire Lighting 8 AWG	LF	4,800.000	4,800.000	
1520	655.0630	Electrical Wire Lighting 4 AWG	LF	2,775.000	2,775.000	
1530	655.0635	Electrical Wire Lighting 2 AWG	LF	7,935.000	7,935.000	
1540	656.0200	Electrical Service Meter Breaker Pedestal (location) 01. Station 65+00.0, 48.5' RT.	LS	1.000	1.000	
1550	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	25.000	25.000	
1560	657.0322	Poles Type 5-Aluminum	EACH	25.000	25.000	
1570	657.0615	Luminaire Arms Single Member 4 1/2-Inch Clamp 8-FT	EACH	25.000	25.000	
1580	659.1120	Luminaires Utility LED B	EACH	25.000	25.000	
1590	659.2124	Lighting Control Cabinets 120/240 24-Inch	EACH	1.000	1.000	
1600	690.0150	Sawing Asphalt	LF	1,511.000	1,511.000	
1610	690.0250	Sawing Concrete	LF	1,710.000	1,710.000	
1620	715.0415	Incentive Strength Concrete Pavement	DOL	6,747.000	6,747.000	
1630	999.1500.S	Crack and Damage Survey	LS	1.000	1.000	
1640	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,400.000	2,400.000	
1650	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	2,100.000	2,100.000	
1660	SPV.0035	Special 01. Backfill Sanitary and Water Utility	CY	7,500.000		7,500.000
1670	SPV.0035	Special 02. Low Permeability Trench Plug	CY	27.000		27.000
1680	SPV.0045	Special 01. Temporary Crosswalk Access	DAY	624.000	624.000	
1690	SPV.0060	Special 01. Tree Trimming	EACH	5.000	5.000	
1700	SPV.0060	Special 02. Reconnect Storm Sewer Laterals	EACH	4.000	4.000	

DATE 11OCT16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1470-18-71 QUANTITY	1470-18-72 QUANTITY
1710	SPV.0060	Special 03. Inlet Cover Type Driveway Special	EACH	5.000	5.000	
1720	SPV.0060	Special 04. Manholes 8x8-FT Special	EACH	2.000	2.000	
1730	SPV.0060	Special 05. Concrete Pipe Support	EACH	17.000	17.000	
1740	SPV.0060	Special 06. Lighting Assemblies Black Finish	EACH	25.000	25.000	
1750	SPV.0060	Special 07. Polymer Concrete Pull Box	EACH	9.000		9.000
1760	SPV.0060	Special 08. Mini Storm Sewer Cleanouts	EACH	14.000		14.000
1770	SPV.0060	Special 09. Remove Valve and Pit	EACH	33.000		33.000
1780	SPV.0060	Special 10. Remove Sanitary Manhole	EACH	17.000		17.000
1790	SPV.0060	Special 11. Remove Hydrant, Lead, and Valve	EACH	10.000		10.000
1800	SPV.0060	Special 12. Curb Stop Valve and Box, 1-Inch	EACH	85.000		85.000
1810	SPV.0060	Special 13. Curb Stop Valve and Box, 2-Inch	EACH	2.000		2.000
1820	SPV.0060	Special 14. Valve and Box, 6-Inch	EACH	11.000		11.000
1830	SPV.0060	Special 15. Valve and Box, 8-Inch	EACH	15.000		15.000
1840	SPV.0060	Special 16. Valve and Box, 12-Inch	EACH	15.000		15.000
1850	SPV.0060	Special 17. Hydrant	EACH	11.000		11.000
1860	SPV.0060	Special 18. Tap and Corporation, 1-Inch	EACH	85.000		85.000
1870	SPV.0060	Special 19. Tap and Corporation, 2-Inch	EACH	2.000		2.000
1880	SPV.0060	Special 20. Sanitary Manhole Casting	EACH	19.000		19.000
1890	SPV.0060	Special 21. Water Valve Manhole Casting	EACH	1.000		1.000
1900	SPV.0060	Special 22. Adjusting Sanitary Manhole Casting	EACH	3.000		3.000
1910	SPV.0060	Special 23. Water Valve Manhole 60-Inch	EACH	1.000		1.000
1920	SPV.0060	Special 24. Construction Staking Sanitary Sewer	EACH	19.000		19.000
1930	SPV.0075	Special 01. Street Sweeping	HRS	60.000	60.000	
1940	SPV.0085	Special 01. Water Main Fittings	LB	6,264.000		6,264.000
1950	SPV.0090	Special 01. Concrete Curb & Gutter 30-Inch Type A Special	LF	565.000	565.000	
1960	SPV.0090	Special 02. Concrete Curb & Gutter Type Special Parking Lot	LF	10.000	10.000	
1970	SPV.0090	Special 03. Concrete Curb & Gutter HES 30-Inch Type A	LF	175.000	175.000	
1980	SPV.0090	Special 04. Mini Storm Sewer 6-Inch	LF	1,080.000		1,080.000
1990	SPV.0090	Special 05. Mini Storm Sewer Lateral 4-Inch	LF	56.000		56.000
2000	SPV.0090	Special 06. Storm Sewer Lateral 4-Inch	LF	724.000		724.000
2010	SPV.0090	Special 07. Tubular Sediment Control (Silt Sock)	LF	155.000	155.000	
2020	SPV.0090	Special 08. Remove Existing Water Main	LF	5,685.000		5,685.000
2030	SPV.0090	Special 09. Hydrant Lead, 6-Inch	LF	70.000		70.000
2040	SPV.0090	Special 10. Water Main, 4-Inch	LF	18.000		18.000
2050	SPV.0090	Special 11. Water Main, 6-Inch	LF	126.000		126.000
2060	SPV.0090	Special 12. Water Main, 8-Inch	LF	877.000		877.000
2070	SPV.0090	Special 13. Water Main, 12-Inch	LF	4,588.000		4,588.000
2080	SPV.0090	Special 14. Water Service, 1-Inch	LF	3,099.000		3,099.000
2090	SPV.0090	Special 15. Water Service, 2-Inch	LF	67.000		67.000
2100	SPV.0090	Special 16. Sanitary Lateral, 6-Inch	LF	3,258.000		3,258.000
2110	SPV.0090	Special 17. Sanitary Sewer, 8-Inch	LF	1,028.000		1,028.000
2120	SPV.0090	Special 18. Sanitary Sewer, 10-Inch	LF	360.000		360.000
2130	SPV.0090	Special 19. Sanitary Sewer, 15-Inch	LF	3,708.000		3,708.000

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DATE 11OCT16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1470-18-71 QUANTITY	1470-18-72 QUANTITY
2140	SPV.0090	Special 20. Abandon Sanitary Sewer, 8-Inch, Slurry Fill	LF	1,252.000		1,252.000
2150	SPV.0090	Special 21. Construction Staking Water Main	LF	5,758.000		5,758.000
2160	SPV.0090	Special 22. Water Main, DI, 12-Inch	LF	149.000		149.000
2170	SPV.0105	Special 01. Concrete Pavement Joint Layout	LS	1.000	1.000	
2180	SPV.0105	Special 02. Rectangular Rapid Flashing Beacon (RRFB) With Pedestrian Activation	LS	1.000	1.000	
2190	SPV.0120	Special 01. Water of Seeded Area	MGAL	205.000	205.000	
2200	SPV.0165	Special 01. Concrete Sidewalk HES 6-Inch	SF	535.000	535.000	
2210	SPV.0165	Special 02. Insulation 2-Inch	SF	2,440.000	200.000	2,240.000
2220	SPV.0180	Special 01. Shredded Hardwood Bark Mulch	SY	12.000	12.000	
2230	SPV.0180	Special 02. Concrete Joint Sealing	SY	22,489.000		22,489.000
2240	SPV.0195	Special 01. Excavation,Segregation, Hauling & Dis posal of Contaminated Soil & Groundwater	TON	100.000	100.000	
2250	SPV.0200	Special 01. Sanitary Manhole 48-Inch	VF	191.410		191.410

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CLEARING & GRUBBING

CATEGORY	STATION	TO STATION	LOCATION	(201.0105) CLEARING STA	(201.0120) CLEARING ID	(201.0205) GRUBBING STA	(201.0220) GRUBBING ID
0010	38+53	-	LT	-	-	-	14
	40+00	-	LT	-	18	-	18
	43+42	-	LT	-	15	-	15
	43+43	-	LT	-	15	-	15
	46+66	-	RT	-	24	-	24
	52+99	-	RT	-	15	-	15
	55+90	-	LT	-	12	-	12
	56+43	-	LT	-	27	-	27
	59+70	-	RT	-	-	-	27
	61+46	61+70	RT	1	-	1	-
	62+18	-	RT	-	12	-	12
	62+49	-	RT	-	10	-	10
	62+59	64+84	RT	3	-	3	-
	72+59	-	RT	-	12	-	12
	PROJECT TOTALS			**4**	**160**	**4**	**201**

REMOVING ASPHALTIC SURFACE

CATEGORY	STATION	TO STATION	LOCATION	(204.0110) SY	* (690.0150) SAWING ASPHALT LF
0010	33+27	33+82	LT	41	62
	34+25	35+76	LT	65	60
	35+81	35+88	LT	38	-
	54+12	54+30	LT	16	27
	54+65	54+83	LT	13	23
	57+32	58+10	RT	80	89
	63+88	64+25	LT	30	37
	64+49	65+65	LT	104	108
	71+17	72+04	LT	63	118
	77+73	77+93	RT	51	66
	79+50	80+00	LT & RT	189	34
	PROJECT TOTALS			**691**	**624**

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

NOTE: REMOVING ASPHALTIC SURFACE AT DRIVEWAY ENTRANCES IS PAID FOR UNDER THE EXCAVATION COMMON BID ITEM

TREE TRIMMING

CATEGORY	STATION	LOCATION	(SPV.0060.01) EACH
0010	40+84	38' LT	1
	59+68	38' LT	1
	59+75	38' LT	1
	59+83	38' LT	1
	59+89	38' LT	1
	PROJECT TOTAL		**5**

CRACK AND DAMAGE SURVEY

CATEGORY	LOCATION	(999.1500.S) LS	NOTES
0010	LINCOLN AVENUE (STH 42)	1	APPROX. 5 PARCELS
	PROJECT TOTAL	**1**	

REMOVING SMALL PIPE CULVERTS

CATEGORY	STATION	TO STATION	LOCATION	(203.0100) EACH	PIPE DIA. INCHES	TYPE
0010	71+98	72+63	RT	1	18	CMP
	73+25	73+56	RT	1	18	CMP
	74+08	74+48	RT	1	18	CMP
	75+82	76+26	LT	1	12	CMP
	75+00	75+59	RT	1	12	CMP
	77+13	77+52	RT	1	12	CMP
	PROJECT TOTAL			**6**		

STREET SWEEPING

CATEGORY	DESCRIPTION	(SPV.0075.01) HRS
0010	PROJECT 1470-18-71	60
	PROJECT TOTAL	**60**

EXCAVATION, SEGREGATION, HAULING AND DISPOSAL OF CONTAMINATED SOIL AND GROUNDWATER

CATEGORY	STATION	TO STATION	LOCATION	(SPV.0195.01) TON
0010	33+25	34+75	RT	100
			PROJECT TOTAL	**100**

Earthwork Summary

Division	From/To Station	Location	Common Excavation (1)	(item # 205.0100)	Salvaged/Unusable Pavement Material (4)	Available Material (5)	Unexpanded Fill	Expanded Fill (6)	Mass Ordinate +/- (7)	Waste	Borrow	Comment:
			Cut (2)	EBS Excavation (3)				Factor 1.25			(item #208.0100)	
1470-18-71												
WIS 42 (Lincoln Ave)	33+10 - 79+50		27,972	1,000	6,263	21,709	1,616	2,020	19,689	19,689	0	
Project Totals			27,972	1,000	6,263	21,709	1,616	2,020	19,689	19,689	0	
	Overall Project Total:		28,972									

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
2) Salvaged/Unsuable Pavement Material is included in Cut.
3) EBS Excavation to be backfilled with Select Crushed material. An undistributed amount of Select Crush material is included in the project.
4) Existing pavement and curb and gutter
5) Available Material = Cut - Salvaged/Unusuable Pavement Material
6) Expanded Fill. Factor = 1.25
7) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

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REMOVING STORM SEWER STRUCTURES

CATEGORY	STATION	LOCATION	(204.0210) REMOVING MANHOLES EACH	(204.0220) REMOVING INLETS EACH
0010	35+67	24' LT	-	1
	35+67	24' RT	-	1
	35+73	30' RT	1	-
	35+84	37' RT	-	1
	35+85	11' LT	1	-
	35+96	12' LT	1	-
	36+22	44' RT	-	1
	36+40	24' LT	-	1
	36+42	24' RT	-	1
	39+27	24' LT	-	1
	39+47	42' RT	-	1
	39+53	10' LT	1	-
	39+80	41' RT	-	1
	40+01	24' LT	-	1
	40+01	24' RT	-	1
	42+70	24' RT	-	1
	42+86	24' LT	-	1
	42+91	46' RT	-	1
	43+13	46' RT	-	1
	43+13	10' LT	1	-
	43+60	24' LT	-	1
	43+78	24' RT	-	1
	46+67	41' RT	-	1
	46+75	9' LT	1	-
	47+01	42' RT	-	1
	47+20	24' LT	-	1
	47+21	24' RT	-	1
	50+27	41' RT	-	1
	50+33	9' LT	1	-
	50+61	42' RT	-	1
	50+80	24' LT	-	1
	50+81	24' RT	-	1
	53+62	42' RT	-	1
	53+67	10' LT	1	-
	53+95	43' RT	-	1
	54+15	24' LT	-	1
	54+16	24' RT	-	1
	56+96	42' RT	-	1
	57+02	10' LT	1	-
	57+02	42' RT	1	-
	57+32	41' RT	-	1
	57+52	24' LT	-	1
	57+52	24' RT	-	1
	58+49	10' LT	1	-
	58+84	24' RT	-	1
	58+86	24' LT	-	1
	65+50	38' RT	1	-
	65+62	24' RT	-	1
	67+47	33' RT	1	-
	PROJECT TOTALS		**13**	**36**

REMOVING STORM SEWER

CATEGORY	STATION	TO STATION	LOCATION	SIZE 01. (204.0245.01) 12-INCH OR LESS LF	SIZE 02. (204.0245.02) 15 TO 18-INCH LF	SIZE 03. (204.0245.03) 24-INCH LF	SIZE 04. (204.0245.04) 36-INCH LF
0010	33+39	35+85	LT	-	246	-	-
	34+92	35+73	RT	-	-	81	-
	35+67	35+73	RT	9	-	-	-
	35+67	35+96	LT	31	-	-	-
	35+73	35+84	RT	13	-	-	-
	35+73	35+96	RT & LT	48	-	-	-
	35+85	35+85	LT	-	-	47	-
	35+85	35+96	LT	-	11	-	-
	35+96	35+96	LT & RT	-	72	-	-
	35+96	35+96	LT	-	46	-	-
	35+96	36+40	LT	46	-	-	-
	35+96	36+42	LT & RT	60	-	-	-
	36+22	36+40	RT	29	-	-	-
	39+27	39+53	LT	30	-	-	-
	39+48	39+53	RT & LT	52	-	-	-
	39+48	39+80	RT	33	-	-	-
	39+53	40+01	LT	50	-	-	-
	39+53	43+13	LT	-	360	-	-
	40+01	40+01	LT & RT	48	-	-	-
	42+70	42+78	RT	12	-	-	-
	42+70	43+13	RT & LT	55	-	-	-
	42+86	43+13	LT	30	-	-	-
	42+91	43+13	RT	22	-	-	-
	43+13	43+13	RT & LT	-	57	-	-
	43+13	43+13	LT	-	-	43	-
	43+13	43+60	LT	50	-	-	-
	43+13	43+78	LT & RT	74	-	-	-
	43+13	46+75	LT	-	362	-	-
	43+70	43+78	RT	11	-	-	-
	46+67	46+75	RT & LT	51	-	-	-
	46+67	47+01	RT	34	-	-	-
	46+75	47+20	LT	48	-	-	-
	46+75	50+33	LT	-	359	-	-
	47+20	47+21	LT & RT	48	-	-	-
	50+27	50+33	RT & LT	51	-	-	-
	50+27	50+61	RT	34	-	-	-
	50+33	50+80	LT	50	-	-	-
	50+33	53+67	LT	-	334	-	-
	50+80	50+81	LT & RT	48	-	-	-
	53+62	53+67	RT & LT	52	-	-	-
	53+62	53+95	RT	34	-	-	-
	53+67	54+15	LT	50	-	-	-
	53+67	57+02	LT	-	335	-	-
	54+15	54+16	LT & RT	48	-	-	-
	56+96	57+02	RT	6	-	-	-
	57+02	57+02	RT	8	-	-	-
	57+02	57+02	LT & RT	53	-	-	-
	57+02	57+02	LT	-	8	-	-
	57+02	57+32	RT	31	-	-	-
	57+02	57+52	LT	51	-	-	-
	57+02	58+49	LT	147	-	-	-
	57+52	57+52	LT & RT	48	-	-	-
	58+49	58+84	LT & RT	49	-	-	-
	58+49	58+86	LT	40	-	-	-
	65+49	65+50	LT & RT	-	-	-	61
	65+50	65+62	RT	19	-	-	-
	65+50	67+47	RT	-	198	-	-
	67+47	70+94	RT	-	347	-	-
	70+94	71+89	RT	-	95	-	-
		PROJECT TOTALS		**1,703**	**2,830**	**171**	**61**

NOTE: REMOVING APRON ENDWALLS WILL BE PAID FOR AS REMOVING STORM SEWER PIPE.

CONCRETE PAVEMENT

CATEGORY	STATION	TO STATION	LOCATION	* (204.0100) REMOVING PAVEMENT SY	* (305.0110) BASE AGGREGATE DENSE 3/4-INCH TON	* (305.0120) BASE AGGREGATE DENSE 1 1/4-INCH TON	(624.0100) WATER MGAL	(312.0110) SELECT CRUSHED MATERIAL TON	(415.0080) CONCRETE PAVEMENT 8-INCH SY	(415.0210) CONCRETE PAVEMENT GAPS EACH	(416.0610) DRILLED TIE BARS EACH	(416.0620) DRILLED DOWEL BARS EACH	(SPV.0105.01) CONCRETE PAVEMENT JOINT LAYOUT LS	* (690.0250) SAWING CONCRETE LF
0010	33+10	35+65	LT & RT	1,404	-	497	7	1,161	1,264	-	15	45	-	49
	35+65	36+41	LT & RT	561	-	195	3	456	533	-	-	-	-	-
	23RD STREET (WEST APPROACH)			145	-	52	1	122	117	-	-	24	-	26
	23RD STREET (EAST APPROACH)			87	-	33	0	77	74	-	3	28	-	43
	36+41	39+26	LT & RT	1,560	-	491	7	1,145	1,185	-	-	-	-	-
	39+26	40+02	LT & RT	563	-	192	3	449	518	2	-	-	-	-
	24TH STREET (WEST APPROACH)			114	-	40	1	94	89	-	-	24	-	26
	24TH STREET (EAST APPROACH)			91	-	32	0	74	71	-	-	24	-	26
	40+02	42+67	LT & RT	1,448	-	470	7	1,096	1,144	-	-	-	-	-
	42+67	43+73	LT & RT	602	-	242	3	566	664	-	-	-	-	-
	25TH STREET (WEST APPROACH)			108	-	38	1	89	85	-	-	24	-	26
	25TH STREET (EAST APPROACH)			-	-	38	1	89	76	-	-	32	-	37
	43+73	46+46	LT & RT	1,488	-	469	7	1,093	1,131	-	-	-	-	-
	46+46	47+22	LT & RT	561	-	188	3	440	506	-	-	-	-	-
	26TH STREET (WEST APPROACH)			98	-	35	0	81	77	-	-	24	-	26
	26TH STREET (EAST APPROACH)			70	-	25	0	59	56	-	-	24	-	26
	47+22	50+05	LT & RT	1,546	-	494	7	1,153	1,198	-	-	-	-	-
	50+05	50+81	LT & RT	556	-	188	3	438	504	-	-	-	-	-
	27TH STREET (WEST APPROACH)			154	-	55	1	128	123	-	-	24	-	26
	27TH STREET (EAST APPROACH)			126	-	44	1	102	98	-	-	24	-	26
	50+81	53+41	LT & RT	1,415	-	441	6	1,028	1,061	-	-	-	-	-
	53+41	54+17	LT & RT	559	-	192	3	449	520	-	-	-	-	-
	28TH STREET (WEST APPROACH)			39	-	15	0	35	35	-	-	30	-	32
	28TH STREET (EAST APPROACH)			90	-	32	0	74	71	-	-	24	-	26
	54+17	56+75	LT & RT	1,400	-	445	6	1,039	1,077	-	-	-	-	-
	56+75	58+92	LT & RT	1,325	-	462	6	1,077	1,190	-	-	-	-	-
	29TH STREET (EAST APPROACH)			98	-	37	1	86	87	-	-	30	-	32
	30TH STREET (WEST APPROACH)			73	-	28	0	64	63	-	-	26	-	28
	58+92	61+79	LT & RT	-	-	474	7	1,106	1,135	1	-	-	-	-
	61+79	62+47	LT & RT	-	-	147	2	343	382	-	-	-	-	-
	31ST STREET (WEST APPROACH)			187	-	32	0	74	74	-	-	30	-	32
	62+47	68+93	LT & RT	-	-	1,043	15	2,433	2,481	2	-	-	-	-
	68+93	69+67	LT & RT	-	-	158	2	369	412	-	-	-	-	-
	33RD STREET (WEST APPROACH)			91	-	34	0	79	80	-	-	30	-	32
	69+67	71+90	LT & RT	-	-	365	5	851	870	-	-	-	-	-
	71+90	72+73	LT & RT	-	-	211	3	493	570	2	-	-	-	-
	34TH STREET (WEST APPROACH)			195	-	34	0	79	79	-	-	30	-	32
	34TH STREET (EAST APPROACH)			73	-	33	0	77	77	-	-	30	-	32
	72+73	79+36	LT & RT	-	-	1,071	15	2,500	2,579	1	-	-	-	-
	35TH STREET (WEST APPROACH)			-	32	19	0	44	44	-	-	-	-	-
	35TH PLACE (WEST APPROACH)			-	58	17	0	41	41	-	-	-	-	-
	79+36	79+50	LT & RT	-	-	21	0	50	50	-	-	-	-	-
	79+50	80+00	SHOULDERS	-	15	-	-	-	-	-	-	-	-	-
	PROJECT 1470-18-71			-	-	-	-	-	-	-	-	-	1	-
	UNDISTRIBUTED (BUSINESS ACCESS)			-	-	-	-	-	-	2	-	-	-	-
	UNDISTRIBUTED (EBS)			-	-	-	-	1,750	-	-	-	-	-	-
	PROJECT TOTALS			**16,826**	**105**	**9,129**	**128**	**23,051**	**22,489**	**10**	**18**	**527**	**1**	**583**

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

NOTE: REMOVING PAVEMENT QUANTITY INCLUDES REMOVING CONCRETE CURB & GUTTER WHERE IT IS ADJACENT TO CONCRETE PAVEMENT.
NOTE: WATER BID ITEM TO BE USED FOR BASE AGGREGATE DUST CONTROL AND COMPACTION

HMA PAVEMENT

CATEGORY	STATION	TO STATION	LOCATION	(460.5223) HMA PAVEMENT 3 LT 58-28 S TON	(460.5224) HMA PAVEMENT 4 LT 58-28 S TON	(455.0605) TACK COAT GAL
0010	79+50	80+00	LT & RT	33	28	10
		PROJECT TOTALS		**33**	**28**	**10**

MULTI-USE PATH

CATEGORY	STATION	TO STATION	LOCATION	* (305.0120) BASE AGGREGATE DENSE 1 1/4-INCH TON	* (465.0105) ASPHALTIC SURFACE TON
0010	72+73	79+50	RT	251	130
		PROJECT TOTALS		**251**	**130**

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

COLORING CONCRETE CUSTOM

CATEGORY	STATION	TO STATION	LOCATION	(405.0200) CY
0030	35+65	36+41	LT & RT	23
	39+26	40+02	LT & RT	21
	42+67	43+73	LT & RT	27
	46+46	47+22	LT & RT	21
	50+05	50+81	LT & RT	21
	53+41	54+17	LT & RT	22
	56+75	58+92	LT & RT	22
	61+79	62+47	LT & RT	16
	68+93	69+67	LT & RT	17
	71+90	72+73	LT & RT	27
	72+73	79+36	LT & RT	20
		PROJECT TOTAL		**237**

DRIVEWAYS

CATEGORY	STATION	LOCATION	* (204.0100) REMOVING PAVEMENT (APRON) SY	* (204.0100) REMOVING PAVEMENT (BEHIND SIDEWALK) SY	* (305.0110) BASE AGGREGATE DENSE 3/4-INCH TON	* (305.0120) BASE AGGREGATE DENSE 1 1/4-INCH TON	* (465.0105) ASPHALTIC SURFACE TON	(602.0415) CONCRETE SIDEWALK 6-INCH SF	(SPV.0165.01) CONCRETE SIDEWALK HES 6-INCH SF	(416.0160) CONCRETE DRIVEWAY 6-INCH (APRON) SY	(416.0160) CONCRETE DRIVEWAY 6-INCH (BEHIND SIDEWALK) SY	(416.0260) CONCRETE DRIVEWAY HES 6-INCH SY	* (690.0150) SAWING ASPHALT LF	* (690.0250) SAWING CONCRETE LF
0010	33+32	RT	-	-	-	7	0	0	-	33	-	-	39	-
	33+90	RT	-	-	-	11	4	175	-	13	-	-	45	-
	34+00	LT	-	-	-	18	9	175	-	13	-	-	43	-
	34+61	RT	-	-	-	10	3	165	-	12	-	-	33	-
	35+82	RT	8	-	-	2	0	0	-	7	-	-	-	-
	36+26	LT	16	20	-	10	0	100	-	19	20	-	-	28
	36+90	RT	2	7	-	5	0	55	-	14	6	-	-	11
	37+41	RT	2	7	-	5	0	55	-	14	6	-	-	11
	37+90	RT	2	6	-	5	0	50	-	12	6	-	-	10
	37+94	LT	3	9	-	6	0	65	-	16	7	-	-	13
	38+40	LT	3	8	-	5	0	50	-	13	6	-	-	11
	38+40	RT	3	13	-	5	0	55	-	5	12	-	-	11
	40+51	LT	2	8	-	3	0	55	-	5	6	-	-	11
	40+60	RT	2	6	-	5	0	50	-	13	5	-	-	10
	41+02	LT	2	7	-	3	0	50	-	4	5	-	-	10
	41+50	LT	2	6	-	3	0	50	-	4	4	-	-	8
	41+54	RT	2	11	-	4	0	50	-	4	11	-	-	10
	42+11	RT	3	11	-	4	0	50	-	4	10	-	-	9
	42+12	LT	6	25	-	14	0	145	-	32	20	-	-	39
	44+11	LT	2	6	-	3	0	50	-	4	5	-	-	9
	44+61	LT	2	6	-	3	0	50	-	4	4	-	-	8
	44+78	RT	3	7	-	5	0	50	-	13	6	-	-	10
	45+11	LT	2	7	-	5	0	50	-	13	6	-	-	10
	45+35	RT	3	11	-	4	0	50	-	4	10	-	-	9
	45+67	LT	4	13	-	9	0	100	-	21	10	-	-	18
	45+89	LT	3	10	-	8	0	100	-	21	8	-	-	18
	45+95	RT	5	29	-	10	0	120	-	9	27	-	-	24
	47+75	LT	2	12	-	4	0	50	-	4	10	-	-	9
	47+84	RT	3	11	-	7	0	75	-	19	9	-	-	16
	48+40	RT	3	8	-	6	0	60	-	15	7	-	-	12
	48+42	LT	2	11	-	4	0	50	-	4	10	-	-	9
	49+03	RT	3	12	-	4	0	50	-	4	11	-	-	10
	49+51	LT	2	12	-	8	0	80	-	19	9	-	-	17
	51+52	LT	2	12	-	4	0	50	-	4	11	-	-	10
	51+92	RT	2	7	-	5	0	50	-	13	6	-	-	10
	51+93	LT	2	-	3	9	4	60	-	15	-	-	-	-
	52+34	LT	-	-	-	9	0	125	-	28	-	-	-	-
	52+44	RT	3	12	-	4	0	50	-	4	11	-	-	10
	53+07	LT	8	0	-	9	0	125	-	28	-	-	-	153
	54+48	LT	20	10	-	17	8	175	-	13	-	-	35	5
	54+75	RT	4	-	-	13	5	90	-	21	-	-	60	-
	55+14	LT	8	-	-	4	0	120	-	9	-	-	-	59
	55+64	LT	4	-	-	3	1	50	-	4	-	-	10	-
	55+68	RT	2	-	-	5	1	50	-	13	-	-	10	-
	57+00	LT	-	-	1	7	1	80	-	17	-	-	-	-
	57+23	LT	-	11	-	11	0	0	120	-	-	36	-	18
	58+36	RT	-	-	-	26	15	175	-	13	-	-	53	-
	59+05	RT	-	-	-	9	2	80	-	19	-	-	16	-
	60+41	LT	3	14	-	6	0	85	-	7	12	-	-	19
	60+48	RT	-	-	-	15	3	155	-	34	-	-	41	-
	60+94	RT	-	-	-	12	3	125	-	28	-	-	35	-
	61+30	RT	-	-	2	7	1	80	-	19	-	-	16	-
	63+59	LT	7	-	-	5	2	80	-	6	-	-	13	-
	64+37	LT	8	-	-	23	14	0	120	-	-	8	24	-
	65+25	RT	52	-	-	15	0	0	120	-	-	54	-	24
	66+85	LT	8	21	-	12	0	105	-	24	20	-	-	22
	67+33	LT	8	-	5	6	1	70	-	17	-	-	-	-
	68+66	RT	33	-	-	28	11	0	175	-	-	44	56	-
	70+02	RT	33	-	-	29	12	175	-	44	-	-	79	-
	70+99	LT	-	-	-	30	14	175	-	38	-	-	37	-
	71+11	RT	-	-	-	26	12	160	-	35	-	-	79	-
	73+40	RT	-	-	-	8	2	0	-	25	-	-	19	-
	74+29	RT	-	-	-	20	9	0	-	37	-	-	52	-
	76+05	RT	-	-	-	16	5	0	-	43	-	-	35	-
	77+31	RT	-	-	-	28	15	0	-	-	-	39	57	-
SUBTOTALS			**306**	**384**	**-**	**-**	**-**	**-**	**-**	**950**	**315**	**-**	**-**	**-**
PROJECT TOTALS			**689**		**11**	**630**	**160**	**4,820**	**535**	**1,265**		**181**	**887**	**701**

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

CONCRETE CURB & GUTTER

CATEGORY	STATION	TO STATION	LOCATION	(204.0150) REMOVING CURB & GUTTER LF	(SPV.0090.02) CONCRETE CURB & GUTTER TYPE SPECIAL PARKING LOT LF	(601.0409) CONCRETE CURB & GUTTER 30-INCH TYPE A LF	(SPV.0090.03) CONCRETE CURB & GUTTER HES 30-INCH TYPE A LF	(SPV.0090.01) CONCRETE CURB & GUTTER 30-INCH TYPE A SPECIAL LF	(601.0600) CONCRETE CURB PEDESTRIAN LF	*(690.0250) SAWING CONCRETE LF
0010	33+10	35+89	LT	-	-	232	-	62	-	2.5
	33+56	35+86	RT	-	-	190	-	55	-	-
	34+43	34+79	RT	12	10	-	-	-	-	3
	23RD STREET (WEST APPROACH)			-	-	59	-	-	-	5
	23RD STREET (EAST APPROACH)			-	-	37	-	-	-	5
	36+19	39+49	LT	-	-	328	-	32	23	-
	36+22	39+49	RT	-	-	329	-	28	-	-
	24TH STREET (WEST APPROACH)			-	-	50	-	-	-	5
	24TH STREET (EAST APPROACH)			-	-	31	-	-	-	5
	39+79	43+09	LT	-	-	345	-	15	-	-
	39+79	42+91	RT	26	-	324	-	17	-	2.5
	25TH STREET (WEST APPROACH)			-	-	44	-	-	-	5
	25TH STREET (EAST APPROACH MEDIAN)			44	-	43	-	-	-	5
	43+38	46+68	LT	-	-	340	-	20	-	-
	43+57	46+68	RT	17	-	330	-	17	-	2.5
	26TH STREET (WEST APPROACH)			-	-	40	-	-	-	5
	26TH STREET (EAST APPROACH)			-	-	24	-	-	-	5
	46+98	50+29	LT	-	-	328	-	32	-	-
	46+98	50+29	RT	-	-	328	-	32	-	-
	27TH STREET (WEST APPROACH)			-	-	70	-	-	-	5
	27TH STREET (EAST APPROACH)			-	-	54	-	-	-	5
	50+58	53+60	LT	-	-	304	-	28	-	-
	50+58	53+64	RT	-	-	304	-	31	-	-
	28TH STREET (WEST APPROACH)			-	-	6	-	-	-	5
	28TH STREET (EAST APPROACH)			-	-	34	-	-	-	5
	53+94	56+96	RT	-	-	302	-	30	-	-
	53+96	58+37	LT	-	-	404	28	41	25	-
	29TH STREET (EAST APPROACH)			-	-	28	-	-	-	5
	30TH STREET (WEST APPROACH)			-	-	26	-	-	-	5
	57+32	72+11	RT	1,348	-	1,415	83	13	291	-
	58+69	61+90	LT	295	-	327	-	25	-	-
	31ST STREET (WEST APPROACH)			-	-	32	-	-	-	5
	62+26	69+10	LT	643	-	667	26	23	-	-
	33RD STREET (WEST APPROACH)			-	-	24	-	-	-	5
	69+45	72+11	LT	253	-	272	-	27	-	-
	34TH STREET (WEST APPROACH)			-	-	30	-	-	-	5
	34TH STREET (EAST APPROACH)			14	-	34	-	-	-	5
	72+47	79+50	RT	-	-	660	38	19	-	-
	72+47	75+13	LT	-	-	287	-	10	-	-
	75+49	78+76	LT	-	-	360	-	-	-	-
	79+13	79+50	LT	-	-	46	-	8	-	-
	PROJECT TOTALS			**2,652**	**10**	**9,088**	**175**	**565**	**339**	**101**

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

NOTE: BASE AGGREGATE DENSE 1 1/4-INCH UNDER THE CURB & GUTTER IS INCLUDED WITH THE CONCRETE PAVEMENT BID ITEMS

CONCRETE SIDEWALK

CATEGORY	STATION	TO STATION	LOCATION	(204.0155) REMOVING CONCRETE SIDEWALK (MAINLINE) SY	(204.0155) REMOVING CONCRETE SIDEWALK (PRIVATE WALKS) SY	(305.0110)* BASE AGGREGATE DENSE 3/4-INCH TON	(602.0405) CONCRETE SIDEWALK 4-INCH (MAINLINE) SF	(602.0405) CONCRETE SIDEWALK 4-INCH (PRIVATE WALKS) SF	(602.0515) CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF	(602.1500) CONCRETE STEPS SF	(690.0250)* SAWING CONCRETE (MAINLINE) LF	(690.0250)* SAWING CONCRETE (PRIVATE WALKS) LF
0010	33+27	35+86	LT	182	-	27	1,450	0	16	-	7	-
	33+10	35+84	RT	194	-	16	850	0	16	-	8	-
	23RD STREET (WEST APPROACH)			54	-	5	290	0	-	-	10	-
	23RD STREET (EAST APPROACH)			35	-	3	170	0	-	-	10	-
	36+22	39+48	LT	217	8	31	1,605	45	32	9	-	10
	36+22	39+47	RT	224	8	29	1,495	65	32	-	-	13
	24TH STREET (WEST APPROACH)			29	-	3	185	0	-	-	10	-
	24TH STREET (EAST APPROACH)			25	-	3	150	0	-	-	10	-
	39+80	43+08	LT	198	11	28	1,440	50	32	-	-	10
	39+80	42+86	RT	192	9	27	1,420	60	32	-	-	12
	25TH STREET (WEST APPROACH)			25	-	3	145	0	-	-	10	-
	25TH STREET (EAST APPROACH)			20	-	3	170	0	-	-	10	-
	43+41	46+68	LT	198	11	27	1,370	70	32	-	-	17
	43+60	46+66	RT	174	12	26	1,360	65	32	-	-	13
	26TH STREET (WEST APPROACH)			30	-	3	155	0	-	-	10	-
	26TH STREET (EAST APPROACH)			30	-	3	175	0	-	-	10	-
	47+00	50+27	LT	202	9	30	1,550	65	32	-	-	13
	47+00	50+27	RT	205	10	30	1,540	70	32	-	-	14
	27TH STREET (WEST APPROACH)			24	-	3	150	0	-	-	10	-
	27TH STREET (EAST APPROACH)			32	-	4	200	0	-	-	10	-
	50+60	53+62	RT	165	3	28	1,500	20	32	-	-	4
	50+61	53+60	LT	217	3	23	1,225	20	32	-	-	4
	28TH STREET (WEST APPROACH)			23	-	2	85	0	-	-	10	-
	28TH STREET (EAST APPROACH)			28	-	3	165	0	-	-	10	-
	53+95	56+94	RT	199	4	27	1,445	25	32	-	-	5
	53+98	58+36	LT	215	5	34	1,775	40	32	-	-	10
	29TH STREET (EAST APPROACH)			15	-	2	130	0	-	-	5	-
	30TH STREET (WEST APPROACH)			29	2	3	145	20	-	-	10	4
	57+34	72+10	RT	137	3	120	6,460	0	64	-	-	-
	58+70	61+90	LT	194	3	30	1,610	25	32	-	-	4
	31ST STREET (WEST APPROACH)			25	-	2	110	0	-	-	10	-
	62+27	69+08	LT	362	4	58	3,110	30	32	-	-	4
	33RD STREET (WEST APPROACH)			17	-	1	65	0	-	-	10	-
	69+48	72+10	LT	72	-	23	1,225	0	32	-	-	-
	34TH STREET (WEST APPROACH)			17	-	4	205	0	-	-	5	-
	34TH STREET (EAST APPROACH)			24	-	5	285	0	-	-	13	-
	72+48	79+50	RT	0	-	8	430	0	40	-	-	-
	72+49	75+11	LT	0	-	26	1,385	0	32	-	-	-
	75+52	78+74	LT	0	-	30	1,605	0	16	-	-	-
	79+14	79+36	LT	0	-	4	205	0	24	-	-	-
	SUBTOTALS			**4,026**	**105**	**-**	**39,035**	**670**	**-**	**-**	**188**	**137**
	PROJECT TOTALS			**4,131**		**735**	**39,705**		**688**	**9**	**325**	

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

STORM SEWER PIPE REINFORCED CONCRETE

CATEGORY	FROM STRUCTURE ID	TO STRUCTURE ID	(520.8000) CONCRETE COLLARS FOR PIPE EACH	(608.6008) STORM SEWER PIPE COMPOSITE 8-INCH LF	(608.0312) CLASS III 12-INCH LF	(608.0315) CLASS III 15-INCH LF	(608.0318) CLASS III 18-INCH LF	(608.0321) CLASS III 21-INCH LF	(608.0324) CLASS III 24-INCH LF	(608.0330) CLASS III 30-INCH LF	(608.0336) CLASS III 36-INCH LF	(608.0412) CLASS IV 12-INCH LF	(608.0415) CLASS IV 15-INCH LF	(608.0424) CLASS IV 24-INCH LF	(608.0430) CLASS IV 30-INCH LF	(610.0138) HORIZONTAL ELLIPTICAL CLASS HE-III 38x60-INCH LF	(610.0414) HORIZONTAL ELLIPTICAL CLASS HE-IV 14x23-INCH LF	(610.0419) HORIZONTAL ELLIPTICAL CLASS HE-IV 19x30-INCH LF	(610.0424) HORIZONTAL ELLIPTICAL CLASS HE-IV 24x38-INCH LF	(610.0429) HORIZONTAL ELLIPTICAL CLASS HE-IV 29x45-INCH LF	(610.0434) HORIZONTAL ELLIPTICAL CLASS HE-IV 34x53-INCH LF
0010	CONNECTION	1.0	1	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1.0	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	142	-	-	-	-
	2.0	3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	93	-	-	-	-
	2.0	2.1	-	-	-	-	-	-	-	-	-	18	-	-	-	-	-	-	-	-	-
	2.0	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	-	-	-	-
	2.2	9.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-
	2.2	2.3	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-
	3.0	4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	-	-
	3.0	5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	-	-
	4.0	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-
	4.0	4.1	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5.0	9.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	93	-	-
	6.0	7.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	-
	6.0	6.1	-	-	-	-	-	-	-	-	-	25	-	-	-	-	-	-	-	-	-
	7.0	8.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69	-
	7.0	10.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	156	-	-	-	-
	8.0	CONNECTION	1	-	-	-	-	-	-	-	-	-	14	-	-	-	-	-	-	-	-
	8.0	8.1	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-
	8.0	8.2	-	-	-	-	-	-	-	-	-	25	-	-	-	-	-	-	-	-	-
	8.1	8.3	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-
	10.0	10.1	-	-	-	-	-	-	-	-	-	-	41	-	-	-	-	-	-	-	-
	10.1	10.2	-	-	-	-	-	-	-	-	-	47	-	-	-	-	-	-	-	-	-
	11.0	12.0	-	-	-	-	-	-	-	-	-	-	-	155	-	-	-	-	-	-	-
	11.0	11.1	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-	-	-
	11.0	11.2	-	-	-	-	-	-	-	-	-	37	-	-	-	-	-	-	-	-	-
	11.2	11.3	-	-	-	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-	-
	11.3	11.4	-	-	-	-	-	-	-	-	-	29	-	-	-	-	-	-	-	-	-
	12.0	13.0	-	-	-	-	-	-	-	-	-	-	-	93	-	-	-	-	-	-	-
	12.0	12.1	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-	-	-
	13.0	14.0	-	-	-	-	-	-	-	-	-	-	-	60	-	-	-	-	-	-	-
	13.0	13.1	-	-	-	-	-	-	-	-	-	-	41	-	-	-	-	-	-	-	-
	14.0	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	35	-	-	-	-	-
	14.0	16.0	-	-	-	-	-	-	-	-	-	-	-	-	64	-	-	-	-	-	-
	14.0	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72
	16.0	16.1	-	-	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17.0	18.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106
	17.0	17.1	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17.0	17.2	-	-	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18.0	19.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	234
	18.0	18.1	-	-	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19.0	20.0	-	-	-	-	-	-	-	-	147	-	-	-	-	-	-	-	-	-	-
	19.0	19.1	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19.0	19.2	-	-	-	-	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19.2	19.3	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	19.3	19.4	-	-	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	20.0	21.0	-	-	-	-	-	-	-	-	213	-	-	-	-	-	-	-	-	-	-
	20.0	20.1	-	-	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21.0	22.0	-	-	-	-	-	-	-	-	149	-	-	-	-	-	-	-	-	-	-
	21.0	21.1	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21.0	21.2	-	-	-	-	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21.2	21.3	-	-	-	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21.3	21.4	-	-	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	22.0	23.0	-	-	-	-	-	-	-	-	189	-	-	-	-	-	-	-	-	-	-
	22.0	22.1	-	-	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23.0	42.0	-	-	-	-	-	-	-	172	-	-	-	-	-	-	-	-	-	-	-
	23.0	23.1	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23.0	23.2	-	-	-	-	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23.2	23.3	-	-	-	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23.2	23.5	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	23.3	23.4	-	-	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CONTINUED ON NEXT PAGE

STORM SEWER PIPE REINFORCED CONCRETE CONTINUED

CATEGORY	FROM STRUCTURE ID	TO STRUCTURE ID	(520.8000) CONCRETE COLLARS FOR PIPE EACH	(608.6008) STORM SEWER PIPE COMPOSITE 8-INCH LF	(608.0312) CLASS III 12-INCH LF	(608.0315) CLASS III 15-INCH LF	(608.0318) CLASS III 18-INCH LF	(608.0321) CLASS III 21-INCH LF	(608.0324) CLASS III 24-INCH LF	(608.0330) CLASS III 30-INCH LF	(608.0336) CLASS III 36-INCH LF	(608.0412) CLASS IV 12-INCH LF	(608.0415) CLASS IV 15-INCH LF	(608.0424) CLASS IV 24-INCH LF	(608.0430) CLASS IV 30-INCH LF	(610.0138) HORIZONTAL ELLIPTICAL CLASS HE-III 38x60-INCH LF	(610.0414) HORIZONTAL ELLIPTICAL CLASS HE-IV 14x23-INCH LF	(610.0419) HORIZONTAL ELLIPTICAL CLASS HE-IV 19x30-INCH LF	(610.0424) HORIZONTAL ELLIPTICAL CLASS HE-IV 24x38-INCH LF	(610.0429) HORIZONTAL ELLIPTICAL CLASS HE-IV 29x45-INCH LF	(610.0434) HORIZONTAL ELLIPTICAL CLASS HE-IV 34x53-INCH LF
0010	42.0	24.0	-	-	-	-	-	-	-	107	-	-	-	-	-	-	-	-	-	-	-
	24.0	25.0	-	-	-	-	-	-	56	-	-	-	-	-	-	-	-	-	-	-	-
	24.0	27.0	-	-	-	-	-	-	-	68	-	-	-	-	-	-	-	-	-	-	-
	25.0	26.0	-	-	-	-	-	-	137	-	-	-	-	-	-	-	-	-	-	-	-
	25.0	25.1	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	25.0	25.2	-	-	-	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	26.0	26.1	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	26.0	26.3	-	-	-	-	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	26.1	26.2	-	-	159	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	26.3	26.4	-	-	68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	27.0	27.1	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	27.0	27.2	-	-	-	-	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	28.0	29.0	-	-	-	-	-	-	170	-	-	-	-	-	-	-	-	-	-	-	-
	28.0	28.1	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	28.0	28.2	-	-	-	-	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	28.2	28.3	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	29.0	30.0	-	-	-	-	-	-	129	-	-	-	-	-	-	-	-	-	-	-	-
	29.0	29.1	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	29.0	29.2	-	-	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	30.0	31.0	-	-	-	-	-	-	-	-	61	-	-	-	-	-	-	-	-	-	-
	30.0	32.0	-	-	-	-	-	-	-	-	89	-	-	-	-	-	-	-	-	-	-
	32.0	43.0	-	-	-	-	-	-	-	-	72	-	-	-	-	-	-	-	-	-	-
	32.0	32.1	-	-	-	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	32.1	CONNECTION	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	43.0	33.0	-	-	-	-	-	-	-	-	37	-	-	-	-	-	-	-	-	-	-
	33.0	34.0	-	-	-	-	-	-	-	-	232	-	-	-	-	-	-	-	-	-	-
	33.0	33.1	-	-	-	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	33.1	33.2	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	33.1	CONNECTION	-	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	34.0	35.0	-	-	-	-	-	-	-	-	164	-	-	-	-	-	-	-	-	-	-
	34.0	34.1	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	34.0	34.2	-	-	-	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	34.2	34.3	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	35.0	36.0	-	-	-	-	-	-	134	-	-	-	-	-	-	-	-	-	-	-	-
	35.0	35.1	-	-	-	-	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	35.1	EX.4	-	-	-	-	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	36.0	37.0	-	-	-	-	-	-	246	-	-	-	-	-	-	-	-	-	-	-	-
	36.0	36.1	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	36.0	36.2	-	-	-	-	-	34	-	-	-	-	-	-	-	-	-	-	-	-	-
	36.2	36.3	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	36.2	36.6	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	36.3	36.4	-	-	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	36..4	36.5	-	-	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	37.0	38.0	-	-	-	-	-	-	52	-	-	-	-	-	-	-	-	-	-	-	-
	37.0	41.0	-	-	-	-	-	-	23	-	-	-	-	-	-	-	-	-	-	-	-
	38.0	39.0	-	-	-	-	-	-	122	-	-	-	-	-	-	-	-	-	-	-	-
	38.0	38.1	-	-	-	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	39.0	40.0	-	-	-	-	-	-	245	-	-	-	-	-	-	-	-	-	-	-	-
	39.0	39.1	-	-	-	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	40.0	40.1	-	-	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	40.0	40.2	-	-	-	-	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	40.2	40.3	-	-	-	-	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	41.0	41.1	-	-	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	42.0	42.1	-	-	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	43.0	44.0	-	-	-	-	-	-	53	-	-	-	-	-	-	-	-	-	-	-	-
PROJECT TOTALS			**2**	**42**	**843**	**331**	**378**	**34**	**1,367**	**347**	**1,353**	**263**	**96**	**308**	**64**	**35**	**426**	**11**	**129**	**157**	**412**

STORM SEWER STRUCTURES

CATEGORY	STRUCTURE I.D.	STATION	LOCATION	(611.2004) MANHOLES 4-FT DIAMETER EACH	(611.2005) MANHOLES 5-FT DIAMETER EACH	(611.2006) MANHOLES 6-FT DIAMETER EACH	(611.2044) MANHOLES 4x4-FT EACH	(611.2055) MANHOLES 5x5-FT EACH	(611.2066) MANHOLES 6x6-FT EACH	(SPV.0060.04) MANHOLES 8x8-FT SPECIAL EACH	(611.3004) INLETS 4-FT DIAMETER EACH	(611.3230) INLETS 2x3-FT EACH	(611.3901) INLETS MEDIAN 1 GRATE EACH	(611.0530) MANHOLE COVERS TYPE J EACH	(611.0624) INLET COVERS TYPE H EACH	(611.0642) INLET COVERS TYPE MS EACH	(SPV.0060.03) INLET COVER TYPE DRIVEWAY SPECIAL EACH	* (650.4000) CONSTRUCTION STAKING STORM SEWER EACH	TOP OF STRUCTURE ELEVATION	BOX DEPTH FEET	RIM ELEVATION	INVERT	NOTES
0010	1.0	33+50.00	8.50' LT	1	-	-	-	-	-	-	-	-	-	1	-	-	-	1	587.03	2.51	588.28	584.52	NO ADJUSTMENT RINGS
	2.0	34+92.00	5.50' LT	-	-	-	1	-	-	-	-	-	-	1	-	-	-	1	586.44	2.20	587.69	584.24	#CAST-IN-PLACE, NO ADJUSTMENT RINGS
	2.1	34+92.00	23.50' LT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	586.40	1.89	587.27	584.50	
	2.2	34+92.00	23.50' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	586.40	2.25	587.27	584.15	
	2.3	35+02.00	23.50' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	586.40	2.03	587.27	584.36	
	3.0	35+84.50	5.50' LT	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1	586.88	3.66	588.13	583.22	#CAST-IN-PLACE, 2"-4" ADJUSTMENT RINGS
	4.0	35+84.20	58.20' LT	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1	586.56	3.45	587.81	583.11	NO ADJUSTMENT RINGS
	4.1	35+89.32	50.65' LT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	586.14	1.56	587.01	584.57	
	5.0	35+85.00	30.00' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	-	1	586.31	3.02	587.56	583.29	#CAST-IN-PLACE, NO ADJUSTMENT RINGS
	6.0	35+95.50	58.20' LT	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1	586.01	3.12	587.26	582.89	#CAST-IN-PLACE, NO ADJUSTMENT RINGS
	6.1	36+18.33	48.90' LT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	586.35	1.93	587.22	584.42	
	7.0	35+95.75	23.50' LT	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1	586.52	3.62	587.77	582.90	#CAST-IN-PLACE, NO ADJUSTMENT RINGS
	8.0	35+96.30	45.40' RT	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1	586.24	3.29	587.49	582.95	#CAST-IN-PLACE, NO ADJUSTMENT RINGS
	8.1	35+86.13	45.40' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	586.40	1.99	587.27	584.41	
	8.2	36+21.37	49.23' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	586.40	1.90	587.27	584.49	
	8.3	35+86.40	55.40' RT	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1	586.33	1.87	587.20	584.46	
	9.0	34+92.00	30.00' RT	-	-	-	-	1	-	-	-	-	-	1	-	-	-	1	587.55	3.42	588.80	584.13	#CAST-IN-PLACE
	10.0	37+52.00	23.50' LT	-	-	-	1	-	-	-	-	-	-	-	1	-	-	1	586.79	2.01	587.66	584.78	#CAST-IN-PLACE, NO ADJUSTMENT RINGS
	10.1	37+54.00	17.50' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	586.90	2.00	587.77	584.90	
	10.2	38+01.00	22.34' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	587.12	1.74	587.99	585.38	
	11.0	40+05.10	16.75' LT	1	-	-	-	-	-	-	-	-	-	1	-	-	-	1	587.52	3.43	588.77	584.09	
	11.1	40+05.10	23.50' LT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	587.70	2.58	588.57	585.12	
	11.2	40+05.10	19.95' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	587.73	2.46	588.60	585.27	#CAST-IN-PLACE
	11.3	39+78.74	47.43' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	587.35	1.88	588.22	585.46	#CAST-IN-PLACE
	11.4	39+49.76	50.33' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	587.20	1.59	588.07	585.61	
	12.0	41+59.75	16.75' LT	1	-	-	-	-	-	-	-	-	-	1	-	-	-	1	587.11	3.49	588.36	583.62	
	12.1	41+59.75	23.50' LT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	587.30	2.64	588.17	584.65	
	13.0	42+53.00	17.50' LT	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	587.14	3.79	588.01	583.34	
	13.1	42+53.00	23.50' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	587.02	2.73	587.89	584.29	
	14.0	43+13.00	17.50' LT	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	587.08	3.92	588.33	583.16	#CAST-IN-PLACE, NO ADJUSTMENT RINGS
	15.0	43+12.75	52.70' LT	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	586.82	3.83	588.07	582.99	#CAST-IN-PLACE, NO ADJUSTMENT RINGS
	16.0	43+12.50	46.00' RT	-	-	-	1	-	-	-	-	-	-	-	1	-	-	1	587.23	3.88	588.10	583.35	#CAST-IN-PLACE, 2"-4" ADJUSTMENT RINGS
	16.1	42+91.10	46.00' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	587.17	2.97	588.04	584.19	
	17.0	43+85.00	15.75' LT	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1	587.42	4.11	588.67	583.31	#CAST-IN-PLACE, 2"-4" ADJUSTMENT RINGS
	17.1	43+85.00	23.50' LT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	587.58	3.26	588.45	584.32	
	17.2	43+84.00	17.50' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	587.69	3.23	588.56	584.45	
	18.0	44+91.40	17.50' LT	-	-	-	-	-	1	-	-	-	-	-	1	-	-	1	588.68	5.14	589.55	583.53	
	18.1	45+14.58	20.94' RT	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	588.82	3.24	589.69	585.58	
	19.0	47+25.25	15.75' LT	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1	590.30	6.31	591.55	583.99	
	19.1	47+25.25	23.50' LT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	590.46	4.60	591.33	585.86	
	19.2	47+25.25	17.50' RT	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	590.58	5.09	591.45	585.49	
	19.3	46+98.27	44.65' RT	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	590.40	4.47	591.27	585.93	
	19.4	46+69.30	50.35' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	590.67	4.34	591.54	586.32	
	20.0	48+72.05	17.50' LT	-	1	-	-	-	-	-	-	-	-	-	1	-	-	1	591.17	6.32	592.04	584.84	
	20.1	48+70.00	23.50' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	591.04	3.99	591.91	587.05	
	21.0	50+85.25	16.25' LT	-	1	-	-	-	-	-	-	-	-	1	-	-	-	1	591.73	6.16	592.98	585.57	
	21.1	50+85.25	23.50' LT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	591.90	4.28	592.77	587.61	
	21.2	50+85.25	17.50' RT	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	592.02	4.77	592.89	587.24	
	21.3	50+58.27	45.66' RT	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	591.83	4.15	592.70	587.68	
	21.4	50+29.30	50.35' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	592.36	4.27	593.23	588.08	
	22.0	52+33.75	17.50' LT	-	1	-	-	-	-	-	-	-	-	-	-	-	1	1	593.20	6.26	594.07	586.94	
	22.1	52+33.75	23.43' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	593.47	4.33	594.34	589.14	
	23.0	54+22.75	16.25' LT	-	1	-	-	-	-	-	-	-	-	1	-	-	-	1	594.58	5.74	595.83	588.84	
	23.1	54+22.75	23.50' LT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	594.75	3.87	595.62	590.88	
	23.2	54+22.75	17.50' RT	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	594.87	4.36	595.74	590.51	
	23.3	53+93.27	44.66' RT	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	594.66	3.69	595.53	590.96	
	23.4	53+64.30	50.35' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	594.83	3.47	595.70	591.36	
	23.5	54+32.75	17.50' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	594.96	3.90	595.83	591.06	
	24.0	57+02.10	17.50' LT	-	-	1	-	-	-	-	-	-	-	-	-	-	1	1	597.38	5.55	598.25	591.82	
	25.0	57+58.55	16.75' LT	1	-	-	-	-	-	-	-	-	-	1	-	-	-	1	597.39	4.81	598.64	592.58	

CONTINUED ON NEXT PAGE

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

#STORM SEWER STRUCTURE IS SHALLOW AND HAS LIMITED COVER, CONSIDER CAST-IN-PLACE STRUCTURE

STORM SEWER STRUCTURES CONTINUED

CATEGORY	STRUCTURE I.D.	STATION	LOCATION	(611.2004) MANHOLES 4-FT DIAMETER EACH	(611.2005) MANHOLES 5-FT DIAMETER EACH	(611.2006) MANHOLES 6-FT DIAMETER EACH	(611.2044) MANHOLES 4x4-FT EACH	(611.2055) MANHOLES 5x5-FT EACH	(611.2066) MANHOLES 6x6-FT EACH	(SPV.0060.04) MANHOLES 8x8-FT SPECIAL EACH	(611.3004) INLETS 4-FT DIAMETER EACH	(611.3230) INLETS 2x3-FT EACH	(611.3901) INLETS MEDIAN 1 GRATE EACH	(611.0530) MANHOLE COVERS TYPE J EACH	(611.0624) INLET COVERS TYPE H EACH	(611.0642) INLET COVERS TYPE MS EACH	(SPV.0060.03) INLET COVER TYPE DRIVEWAY SPECIAL EACH	(650.4000)* CONSTRUCTION STAKING STORM SEWER EACH	TOP OF STRUCTURE ELEVATION	BOX DEPTH FEET	RIM ELEVATION	INVERT	NOTES
0010	25.1	57+58.55	23.50' LT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	597.54	3.92	598.41	593.61	
	25.2	57+58.55	23.50' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	597.65	4.12	598.52	593.53	
	26.0	58+95.65	16.75' LT	1	-	-	-	-	-	-	-	-	-	1	-	-	-	1	598.26	4.66	599.51	593.60	
	26.1	58+95.65	23.50' LT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	598.44	3.80	599.31	594.63	
	26.2	60+54.50	23.50' LT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	601.85	4.13	602.72	597.71	
	26.3	58+95.65	17.50' RT	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1	598.56	4.28	599.43	594.27	
	26.4	59+63.50	17.50' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	599.94	4.82	600.81	595.11	
	27.0	57+01.55	50.56' RT	-	-	-	1	-	-	-	-	-	-	1	-	-	-	1	597.66	5.70	598.91	591.96	
	27.1	56+96.55	50.56' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	597.92	4.43	598.79	593.48	
	27.2	57+31.55	50.56' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	598.01	4.89	598.88	593.11	
	28.0	62+50.00	16.75' LT	1	-	-	-	-	-	-	-	-	-	1	-	-	-	1	605.86	4.32	607.11	601.54	
	28.1	62+50.00	23.50' LT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	605.97	3.39	606.84	602.57	
	28.2	62+50.00	17.50' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	606.33	4.12	607.20	602.21	
	28.3	62+60.00	17.50' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	606.55	3.78	607.42	602.76	
	29.0	64+20.00	16.75' LT	1	-	-	-	-	-	-	-	-	-	1	-	-	-	1	608.26	7.06	609.51	601.20	
	29.1	64+20.00	23.50' LT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	608.44	3.96	609.31	604.47	
	29.2	64+20.00	17.50' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	608.56	3.94	609.43	604.61	
	30.0	65+49.25	23.00' LT	-	-	1	-	-	-	-	-	-	-	1	-	-	-	1	609.49	9.55	610.74	599.94	
	31.0	65+50.00	38.25' RT	-	1	-	-	-	-	-	-	-	-	1	-	-	-	1	609.61	9.55	610.86	600.06	
	32.0	66+38.00	17.50' LT	-	1	-	-	-	-	-	-	-	-	-	1	-	-	1	609.75	8.45	610.62	601.30	
	32.1	66+38.00	17.50' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	609.75	6.51	610.62	603.23	
	33.0	67+47.25	17.50' LT	-	1	-	-	-	-	-	-	-	-	-	1	-	-	1	610.38	7.40	611.25	602.97	
	33.1	67+47.25	17.50' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	610.38	5.47	611.25	604.91	
	33.2	67+57.25	17.50' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	610.43	5.21	611.30	605.21	
	34.0	69+79.50	16.25' LT	-	1	-	-	-	-	-	-	-	-	1	-	-	-	1	611.42	7.08	612.67	604.34	
	34.1	69+79.50	23.50' LT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	611.59	4.01	612.46	607.58	
	34.2	69+79.50	17.50' RT	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1	611.71	4.25	612.58	607.46	
	34.3	69+70.00	17.50' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	611.65	3.88	612.52	607.76	
	35.0	71+43.00	17.50' LT	-	1	-	-	-	-	-	-	-	-	-	1	-	-	1	612.75	7.45	613.62	605.30	
	35.1	71+43.00	23.50' RT	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	612.63	5.62	613.50	607.01	
	36.0	72+76.50	16.75' LT	1	-	-	-	-	-	-	-	-	-	1	-	-	-	1	613.32	5.22	614.57	608.10	
	36.1	72+76.50	23.50' LT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	613.50	4.37	614.37	609.13	
	36.2	72+76.50	17.50' RT	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	613.62	5.10	614.49	608.52	
	36.3	72+53.28	26.30' RT	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	613.28	3.88	614.15	609.39	
	36.4	72+46.98	44.00' RT	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	613.51	4.01	614.38	609.49	
	36.5	72+11.83	50.00' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	613.71	4.04	614.58	609.67	
	36.6	72+86.50	17.50' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	613.69	4.36	614.56	609.32	
	37.0	75+23.00	17.50' LT	-	1	-	-	-	-	-	-	-	-	1	-	-	-	1	615.35	4.79	616.60	610.56	
	38.0	75+75.00	17.50' LT	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	616.06	4.97	616.93	611.08	
	38.1	75+75.00	17.50' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	616.06	4.05	616.93	612.00	
	39.0	76+97.00	17.50' LT	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	616.74	5.04	617.61	611.69	
	39.1	76+97.00	17.50' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	616.74	4.12	617.61	612.62	
	40.0	79+42.50	17.50' LT	-	1	-	-	-	-	-	-	-	-	-	1	-	-	1	618.25	5.33	619.12	612.92	
	40.1	79+49.50	35.00' LT	-	-	-	-	-	-	-	-	-	1	-	-	1	-	1	618.63	4.62	618.63	614.01	
	40.2	79+42.50	17.50' RT	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1	618.25	4.65	619.12	613.59	
	41.0	75+23.00	40.00' LT	1	-	-	-	-	-	-	-	-	-	1	-	-	-	1	614.85	4.24	616.10	610.61	
	41.1	75+64.00	43.00' LT	-	-	-	-	-	-	-	-	-	1	-	-	1	-	1	614.14	2.32	614.14	611.82	
	42.0	55+94.90	17.50' LT	-	1	-	-	-	-	-	-	-	-	-	1	-	-	1	596.41	5.53	597.28	590.87	
	42.1	56+13.90	23.50' RT	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	596.68	4.07	597.55	592.60	
	43.0	67+10.00	17.50' LT	-	1	-	-	-	-	-	-	-	-	-	1	-	-	1	610.16	7.76	611.03	602.40	
	44.0	67+10.00	35.00' RT	1	-	-	-	-	-	-	-	-	-	1	-	-	-	1	610.78	4.78	612.03	606.00	
PROJECT TOTALS				**10**	**13**	**2**	**4**	**2**	**8**	**2**	**15**	**53**	**2**	**29**	**75**	**2**	**5**	**111**					

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

#STORM SEWER STRUCTURE IS SHALLOW AND HAS LIMITED COVER, CONSIDER CAST-IN-PLACE STRUCTURE

ADJUSTING STORM SEWER STRUCTURES

CATEGORY	STRUCTURE I.D.	STATION	LOCATION	(611.8110) ADJUSTING MANHOLE COVERS EACH	(611.8115) ADJUSTING INLET COVERS EACH
0010	EX1	34+62.31	29.55' RT	1	-
	EX2	43+35.47	45.60' RT	-	1
	EX3	43+56.85	46.15' RT	-	1
	EX4	70+94.10	33.20' RT	1	-
PROJECT TOTALS				**2**	**2**

APRON ENDWALLS

CATEGORY	STRUCTURE I.D.	STATION	LOCATION	(522.1018) APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	(611.9800.S) PIPE GRATES EACH	* (650.4000) CONSTRUCTION STAKING STORM SEWER EACH
0010	40.3	79+80.50	36.50' RT	1	1	1
PROJECT TOTALS				**1**	**1**	**1**

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

RECONNECT STORM SEWER LATERALS

CATEGORY	STATION	LOCATION	(SPV.0060.02) EACH	NOTES
0010	59+63.5	32.5' RT	1	2-INCH
	77+7.0	37.5' RT	1	4-INCH
UNDISTRIBUTED			2	
PROJECT TOTAL			**4**	

CONCRETE PIPE SUPPORT

CATEGORY	STATION	LOCATION	(SPV.0060.05) CONCRETE PIPE SUPPORT EACH	* (SPV.0165.02) INSULATION 2-INCH SF
0010	34+92	ON LINE	1	12
	35+42	5.5' LT	1	12
	36+02	23.5' LT	1	12
	36+02	55.5' LT	1	8
	36+02	45.5' RT	1	8
	36+56	23.5' LT	1	12
	37+05	23.5' LT	1	12
	39+64	49.0' RT	1	8
	43+23	17.0' LT	1	23
	47+25	ON LINE	1	10
	50+85	ON LINE	1	10
	57+02	ON LINE	1	15
	58+95	ON LINE	1	10
	65+49	ON LINE	1	17
UNDISTRIBUTED			3	31
PROJECT TOTALS			**17**	**200**

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

FINISHING ITEMS

CATEGORY	STATION	TO STATION	LOCATION	(625.0100) TOPSOIL SY	(627.0200) MULCHING SY	(629.0210) FERTILIZER TYPE B CWT	(630.0140) SEEDING MIXTURE NO. 40 LB	(631.1000) SOD LAWN SY	(631.0300) SOD WATER MGAL	(SPV.0120.01) WATER OF SEEDED AREA MGAL	(628.2006) EROSION MAT URBAN CLASS 1 TYPE A SY
0010	33+51	35+85	RT	94	37	0.06	1	57	3	2	0
	34+17	35+88	LT	93	0	0.06	0	93	5	0	0
	36+19	39+48	LT	369	145	0.23	3	223	13	8	0
	36+22	39+49	RT	356	162	0.22	3	194	11	9	0
	39+79	43+08	LT	309	119	0.19	2	190	11	7	0
	39+80	42+90	RT	333	139	0.21	3	194	11	8	0
	43+13	43+34	RT	29	0	0.02	0	29	2	0	0
	43+39	46+68	LT	315	114	0.20	2	201	11	6	0
	43+58	46+68	RT	330	137	0.21	2	192	11	8	0
	46+99	50+28	RT	339	132	0.21	2	207	12	7	0
	46+99	50+28	LT	367	132	0.23	2	235	13	7	0
	50+59	53+63	RT	366	138	0.23	2	228	13	8	0
	50+59	53+60	LT	211	41	0.13	1	170	10	2	0
	53+94	56+96	RT	348	124	0.22	2	224	13	7	0
	53+97	58+36	LT	295	117	0.19	2	178	10	7	0
	57+33	72+11	RT	2,109	1,052	1.33	19	1,057	60	59	0
	58+69	61+89	LT	292	105	0.18	2	187	11	6	0
	62+26	69+09	LT	704	272	0.44	5	432	24	15	0
	69+46	72+10	LT	220	38	0.14	1	182	10	2	0
	72+47	79+50	RT	1,587	614	1.00	17	615	35	35	358
	72+47	75+13	LT	570	0	0.36	6	213	12	0	357
	75+50	78+76	LT	897	0	0.57	10	319	18	0	578
	79+13	79+50	LT	193	0	0.12	3	33	2	0	160
	PROJECT TOTALS			**10,723**	**3,618**	**6.76**	**90**	**5,653**	**320**	**205**	**1,452**

SHREDDED HARDWOOD BARK MULCH

CATEGORY	STATION	TO STATION	LOCATION	(SPV.0180.01) SY
0010	33+52	33+73	RT	12
		PROJECT TOTAL		**12**

TREES

CATEGORY	STATION	LOCATION	(632.0101.01) TREES (ARBORVITAE, AMERICAN 'TECHNY', 5-FT, 'B&B) EACH	(632.0101.02) TREES (JAPANESE TREE LILAC, 'IVORY SILK', 2.5" CAL., B&B) EACH	(632.0101.03) TREES (LITTLELEAF LINDEN, 'GREENSPIRE', 2.5" CAL., B&B) EACH	(632.0101.04) TREES (HONEYLOCUST, 'SKYLINE', 2.5" CAL., B&B) EACH	(632.0101.05) TREES (ELM, 'PRINCETON', 2.5" CAL., B&B) EACH	(632.9101) LANDSCAPE PLANTING SURVEILLANCE AND CARE CYCLES EACH	(625.0105) TOPSOIL CY
0030	36+74	RT	-	-	-	-	1	-	2
	37+23	RT	-	-	1	-	-	-	2
	38+17	LT	-	-	-	1	-	-	2
	38+82	LT	-	1	-	-	-	-	2
	40+45	RT	-	1	-	-	-	-	2
	40+85	RT	-	-	1	-	-	-	2
	41+25	RT	-	-	-	-	1	-	2
	41+78	LT	-	1	-	-	-	-	2
	42+42	LT	-	-	-	1	-	-	2
	44+13	RT	-	-	-	1	-	-	2
	44+54	RT	-	-	-	-	1	-	2
	44+97	RT	-	-	1	-	-	-	2
	45+36	LT	-	-	-	1	-	-	2
	46+18	LT	-	-	-	-	1	-	2
	47+57	RT	-	-	-	1	-	-	2
	48+07	RT	-	-	-	1	-	-	2
	48+82	LT	-	-	-	-	1	-	2
	49+27	LT	-	1	-	-	-	-	2
	49+72	LT	-	-	-	-	1	-	2
	51+18	RT	-	-	-	-	1	-	2
	51+63	RT	-	-	1	-	-	-	2
	52+75	LT	-	1	-	-	-	-	2
	54+52	RT	-	-	-	1	-	-	2
	54+99	RT	-	-	1	-	-	-	2
	55+46	RT	-	-	-	1	-	-	2
	55+92	RT	-	1	-	-	-	-	2
	56+09	LT	-	-	-	1	-	-	2
	56+53	LT	-	-	-	1	-	-	2
	59+50	RT	-	-	1	-	-	-	2
	60+00	RT	-	-	1	-	-	-	2
	60+92	LT	-	-	-	-	1	-	2
	61+37	LT	-	-	-	-	1	-	2
	61+58	RT	-	1	-	-	-	-	2
	62+08	RT	-	1	-	-	-	-	2
	62+58	RT	-	-	1	-	-	-	2
	62+82 - 64+72	38' RT	38	-	-	-	-	-	-
	63+08	RT	-	-	-	-	1	-	2
	63+58	RT	-	-	-	1	-	-	2
	64+08	RT	-	-	-	-	1	-	2
	64+58	RT	-	-	1	-	-	-	2
	65+63	RT	-	-	1	-	-	-	2
	66+18	RT	-	-	-	-	1	-	2
	66+61	LT	-	-	-	-	1	-	2
	66+73	RT	-	-	-	1	-	-	2
	67+17	LT	-	-	-	1	-	-	2
	67+28	RT	-	-	-	-	1	-	2
	67+72	LT	-	-	-	-	1	-	2
	67+78	RT	-	-	1	-	-	-	2
	68+27	LT	-	-	1	-	-	-	2
	70+55	LT	-	-	-	1	-	-	2
	70+65	RT	-	-	-	-	1	-	2
	71+35	LT	-	-	-	1	-	-	2
	73+60	LT	-	1	-	-	-	-	2
	74+10	LT	-	-	-	1	-	-	2
	74+60	LT	-	1	-	-	-	-	2
	74+70	RT	-	1	-	-	-	-	2
	75+20	RT	-	-	-	1	-	-	2
	76+10	LT	-	1	-	-	-	-	2
	76+38	RT	-	1	-	-	-	-	2
	76+60	LT	-	-	-	1	-	-	2
	76+88	RT	-	-	-	1	-	-	2
	77+10	LT	-	1	-	-	-	-	2
	77+58	RT	-	1	-	-	-	-	2
	77+60	LT	-	-	-	1	-	-	2
	78+08	RT	-	-	-	1	-	-	2
	78+10	LT	-	1	-	-	-	-	2
	78+58	RT	-	1	-	-	-	-	2
	79+08	RT	-	-	-	1	-	-	2
	PROJECT 1470-18-71		-	-	-	-	-	10	-
	PROJECT TOTALS		**38**	**17**	**12**	**22**	**16**	**10**	**134**

SILT FENCE

CATEGORY	STATION	TO STATION	LOCATION	(628.1504) LF	(628.1520) MAINTENANCE LF
0010	72+57	75+12	LT	255	510
	75+50	78+70	LT	320	640
	79+00	80+00	LT	100	200
		UNDISTRIBUTED		75	150
		PROJECT TOTALS		**750**	**1,500**

MOBILIZATIONS EROSION CONTROL

CATEGORY	PROJECT	(628.1905) EACH	(628.1910) EMERGENCY EACH
0010	1470-18-71	12	6
	PROJECT TOTALS	**12**	**6**

TUBULAR SEDIMENT CONTROL (SILT SOCK)

CATEGORY	STATION	TO STATION	LOCATION	(SPV.0090.07) LF
0010	58+80	60+30	LT	155
		PROJECT TOTAL		**155**

CULVERT PIPE CHECKS

CATEGORY	STATION	LOCATION	(628.7555) EACH
0010	79+80	RT	2
	PROJECT TOTAL		**2**

TRACKING PADS

CATEGORY	STATION	TO STATION	(628.7560) EACH
0010	33+55	34+05	1
	78+00	78+50	1
	PROJECT TOTAL		**2**

INLET PROTECTION

CATEGORY	STATION	LOCATION	(628.7005) TYPE A EACH	(628.7015) TYPE C EACH	(628.7020) TYPE D EACH	NOTES
0010	32+63	RT	-	-	1	EXISTING
	32+93	LT	-	-	1	EXISTING
	34+92	LT	-	-	1	PROPOSED
	34+92	RT	-	-	1	PROPOSED
	35+02	RT	-	-	1	PROPOSED
	35+67	LT	-	-	1	EXISTING
	35+67	RT	-	-	1	EXISTING
	35+84	RT	-	-	1	EXISTING
	35+86	RT	-	-	1	PROPOSED
	35+86	RT	-	-	1	PROPOSED
	35+89	LT	-	-	1	PROPOSED
	36+18	LT	-	-	1	PROPOSED
	36+21	RT	-	-	1	PROPOSED
	36+22	RT	-	-	1	EXISTING
	23RD ST./JACKSON ST.		-	-	2	EXISTING
	36+40	LT	-	-	1	EXISTING
	36+42	RT	-	-	1	EXISTING
	37+52	LT	-	-	1	PROPOSED
	37+54	RT	-	-	1	PROPOSED
	38+01	RT	-	-	1	PROPOSED
	39+27	LT	-	1	-	EXISTING
	39+47	RT	-	1	-	EXISTING
	39+50	RT	-	-	1	PROPOSED
	39+79	RT	-	-	1	PROPOSED
	39+80	RT	-	1	-	EXISTING
	24TH ST./JACKSON ST.		-	-	2	EXISTING
	40+01	LT	-	1	-	EXISTING
	40+01	RT	-	1	-	EXISTING
	40+05	LT	-	-	1	PROPOSED
	40+05	RT	-	-	1	PROPOSED
	41+60	LT	-	-	1	PROPOSED
	42+53	LT	-	-	1	PROPOSED
	42+53	RT	-	-	1	PROPOSED
	42+70	RT	-	1	-	EXISTING
	42+86	LT	-	1	-	EXISTING
	42+91	RT	-	1	-	EXISTING
	42+91	RT	-	-	1	PROPOSED
	43+13	RT	-	1	-	EXISTING
	43+13	RT	-	-	1	PROPOSED
	43+20	RT	1	-	-	EXISTING
	43+35	RT	-	1	-	EXISTING
	43+57	RT	-	1	-	EXISTING
	25TH ST./JACKSON ST.		-	-	2	EXISTING
	43+60	LT	-	1	-	EXISTING
	43+78	RT	-	1	-	EXISTING
	43+84	RT	-	-	1	PROPOSED
	43+85	LT	-	-	1	PROPOSED
	44+91	LT	-	-	1	PROPOSED
	45+15	RT	-	-	1	PROPOSED
	46+67	RT	-	1	-	EXISTING
	46+69	RT	-	-	1	PROPOSED
	46+98	RT	-	-	1	PROPOSED
	47+01	RT	-	1	-	EXISTING
	26TH ST./JACKSON ST.		-	-	2	EXISTING
	47+20	LT	-	1	-	EXISTING
	47+21	RT	-	1	-	EXISTING
	47+25	LT	-	-	1	PROPOSED
	47+25	RT	-	-	1	PROPOSED
	48+70	RT	-	-	1	PROPOSED
	48+72	RT	-	-	1	PROPOSED
	50+27	RT	-	1	-	EXISTING
	50+29	RT	-	-	1	PROPOSED
	50+58	RT	-	-	1	PROPOSED
	50+61	RT	-	1	-	EXISTING
	27TH ST./JACKSON ST.		-	-	2	EXISTING
	50+80	LT	-	1	-	EXISTING
	50+81	RT	-	1	-	EXISTING
	50+85	LT	-	-	1	PROPOSED
	50+85	RT	-	-	1	PROPOSED
	52+34	LT	-	-	1	PROPOSED

CONTINUED

INLET PROTECTION CONTINUED

CATEGORY	STATION	LOCATION	(628.7005) TYPE A EACH	(628.7015) TYPE C EACH	(628.7020) TYPE D EACH	NOTES
0010	52+34	RT	-	-	1	PROPOSED
	53+62	RT	-	1	-	EXISTING
	53+64	RT	-	-	1	PROPOSED
	53+93	RT	-	-	1	PROPOSED
	53+95	RT	-	1	-	EXISTING
	28TH ST./JACKSON ST.		-	-	2	EXISTING
	54+15	LT	-	1	-	EXISTING
	54+16	RT	-	1	-	EXISTING
	54+23	LT	-	-	1	PROPOSED
	54+23	RT	-	-	1	PROPOSED
	54+33	RT	-	-	1	PROPOSED
	55+95	LT	-	-	1	PROPOSED
	56+14	RT	-	-	1	PROPOSED
	56+96	RT	-	1	-	EXISTING
	56+97	RT	-	-	1	PROPOSED
	57+02	LT	-	-	1	PROPOSED
	57+32	RT	-	1	-	EXISTING
	57+32	RT	-	-	1	PROPOSED
	57+52	LT	-	1	-	EXISTING
	57+52	RT	-	1	-	EXISTING
	57+59	LT	-	-	1	PROPOSED
	57+59	RT	-	-	1	PROPOSED
	30TH ST./JACKSON ST.		-	-	2	EXISTING
	58+84	RT	-	1	-	EXISTING
	58+86	LT	-	1	-	EXISTING
	58+96	LT	-	-	1	PROPOSED
	58+96	RT	-	-	1	PROPOSED
	59+64	RT	-	-	1	PROPOSED
	60+55	LT	-	-	1	PROPOSED
	31ST ST./JACKSON ST.		-	-	2	EXISTING
	62+50	LT	-	-	1	PROPOSED
	62+50	RT	-	-	1	PROPOSED
	62+60	RT	-	-	1	PROPOSED
	64+20	LT	-	-	1	PROPOSED
	64+20	RT	-	-	1	PROPOSED
	65+62	RT	-	1	-	EXISTING
	66+38	LT	-	-	1	PROPOSED
	66+38	RT	-	-	1	PROPOSED
	67+10	LT	-	-	1	PROPOSED
	67+47	LT	-	-	1	PROPOSED
	67+47	RT	-	-	1	PROPOSED
	67+57	RT	-	-	1	PROPOSED
	33RD ST./JACKSON ST.		-	-	2	EXISTING
	69+70	RT	-	-	1	PROPOSED
	69+80	RT	-	-	1	PROPOSED
	69+80	LT	-	-	1	PROPOSED
	71+43	LT	-	-	1	PROPOSED
	71+43	RT	-	-	1	PROPOSED
	72+12	RT	-	-	1	PROPOSED
	72+47	RT	-	-	1	PROPOSED
	72+53	RT	-	-	1	PROPOSED
	34TH ST./JACKSON ST.		-	-	2	EXISTING
	72+77	LT	-	-	1	PROPOSED
	72+77	RT	-	-	1	PROPOSED
	72+87	RT	-	-	1	PROPOSED
	75+64	LT	1	-	-	PROPOSED
	75+75	LT	-	-	1	PROPOSED
	75+75	RT	-	-	1	PROPOSED
	76+97	LT	-	-	1	PROPOSED
	76+97	RT	-	-	1	PROPOSED
	79+42	LT	-	-	1	PROPOSED
	79+42	RT	-	-	1	PROPOSED
	79+50	LT	1	-	-	PROPOSED
	PROJECT TOTALS		**3**	**32**	**108**	

REMOVING SIGNS

CATEGORY	SIGN NO.	STATION	LOCATION	(638.2602) REMOVING SIGNS TYPE II EACH	(638.3000) REMOVING SMALL SIGN SUPPORTS EACH	NOTES
0010	E1.1	33+27	LT	1	-	ON UTILITY POLE
	E1.2	35+11	LT	1	-	ON UTILITY POLE
	E1.3	35+51	LT	1	-	ON UTILITY POLE
	E1.4	35+83	LT	1	1	
	E1.5	35+87	LT	1	1	
	E1.6	33+55	RT	1	1	
	E1.7	34+43	RT	1	1	
	E1.8	36+24	RT	1	1	
	E1.9	36+52	RT	1	1	
	E2.1	39+42	LT	1	-	ON UTILITY POLE
	E2.2	39+43	LT	1	1	
	E2.3	41+94	LT	1	-	ON UTILITY POLE
	E2.4	43+03	LT	1	1	
	E2.5	39+83	RT	1	1	
	E2.6	42+19	RT	1	-	ON UTILITY POLE
	E2.7	43+60	RT	1	1	
	E3.1	45+78	LT	1	-	ON UTILITY POLE
	E3.2	46+65	LT	1	1	
	E3.3	50+22	LT	1	1	
	E3.4	47+03	RT	1	1	
	E4.1	51+60	LT	1	1	
	E4.2	53+57	LT	1	1	
	E4.3	50+65	RT	1	1	
	E4.4	51+37	RT	1	1	
	E4.5	53+17	RT	1	1	
	E4.6	53+35	RT	1	1	
	E4.7	54+00	RT	1	-	ON UTILITY POLE
	E5.1	56+74	LT	1	-	ON UTILITY POLE
	E5.2	58+35	LT	1	1	
	E5.3	58+89	LT	1	-	ON UTILITY POLE
	E5.4	61+88	LT	1	1	
	E5.5	57+39	RT	1	1	
	E5.6	58+72	RT	1	-	ON UTILITY POLE
	E6.1	68+25	LT	1	1	
	E7.1	69+08	LT	1	1	
	E7.2	72+10	LT	1	1	
	E7.3	72+63	LT	1	1	
	E7.4	69+52	RT	1	1	
	E7.5	70+54	RT	1	1	
	E7.6	72+00	RT	1	1	
	E7.7	72+55	RT	1	1	
	E8.1	75+04	LT	1	1	
	E8.2	75+03	LT	1	1	
	E8.3	76+94	LT	1	1	
	E8.4	78+10	LT	1	1	
	E8.5	78+64	LT	1	1	
	E8.6	80+10	LT	1	1	
	E8.7	79+46	RT	1	1	
	PROJECT TOTALS			**48**	**37**	

NOTE: SIGNS AT THE SAME LOCATION ARE COUNTED AS ONE SIGN REMOVAL

PERMANENT SIGNING

CATEGORY	SIGN NO	STATION	LOCATION	SIGN CODE	SIZE IN X IN	(637.2210) SIGNS TYPE II REFLECTIVE H SF	(637.2230) SIGNS TYPE II REFLECTIVE F SF	(634.0410) POSTS WOOD 4X4-INCH X 10-FT EACH	(634.0614) POSTS WOOD 4X6-INCH X 14-FT EACH	(634.0616) POSTS WOOD 4X6-INCH X 16-FT EACH	(634.0810) POSTS TUBULAR STEEL 2X2-INCH X 10-FT EACH	(634.0811) POSTS TUBULAR STEEL 2X2-INCH X 11-FT EACH	(634.0812) POSTS TUBULAR STEEL 2X2-INCH X 12-FT EACH	(638.2102) MOVING SIGNS TYPE II EACH	(638.4000) MOVING SMALL SIGN SUPPORTS EACH	NOTES
0010	1.1	33+39	LT	M1-93	24 X 24	4.00	-	-	-	-	-	-	-	-	-	ON STREET LIGHT POLE, 7' MOUNTING HEIGHT
	1.2	33+39	LT	MK6-1	21 X 21	3.06	-	-	-	-	-	-	-	-	-	ON STREET LIGHT POLE, 7' MOUNTING HEIGHT
	1.3	33+75	LT	J3-1	24 X 57	9.50	-	-	-	1	-	-	-	-	-	M3-3, M1-6, M6-1R
	1.4	34+55	LT	J13-1	24 X 45	7.50	-	-	-	1	-	-	-	-	-	M1-5A, M6-1L
	1.5	35+25	LT	R3-8F	36 X 30	7.50	-	-	-	-	-	-	1	-	-	
	1.6	35+25	LT	R7-1D	18 X 24	3.00	-	-	-	-	-	-	-	-	-	MOUNTED WITH SIGN 1.5
	1.7	35+82	LT	R1-1	30 X 30	5.18	-	-	-	-	-	1	-	-	-	
	1.8	36+50	LT	J3-1	24 X 57	9.50	-	-	-	1	-	-	-	-	-	M3-3, M1-6, M5-1R
	1.9	37+30	LT	J1-1	24 X 39	6.50	-	-	-	1	-	-	-	-	-	M2-1, M1-5A
	1.10	37+75	LT	R7-1R	18 X 24	3.00	-	-	-	-	-	-	-	-	-	ON STREET LIGHT POLE
	1.11	33+63	RT	R7-1D	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	1.12	34+25	RT	J4-1	24 X 36	6.00	-	-	-	1	-	-	-	-	-	M3-1, M1-6
	1.13	34+25	RT	M1-93	24 X 24	4.00	-	-	-	-	-	-	-	-	-	MOUNTED WITH SIGN 1.12
	1.14	35+09	RT	R2-1	24 X 30	5.00	-	-	-	-	-	-	1	-	-	25 MPH
	1.15	35+09	RT	R7-1D	18 X 24	3.00	-	-	-	-	-	-	-	-	-	MOUNTED WITH SIGN 1.14
	1.16	36+25	RT	R1-1	30 X 30	5.18	-	-	-	-	-	1	-	-	-	
	1.17	36+45	RT	R7-1L	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	1.18	37+80	RT	R7-1R	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	1.19	33+79	LT	EXISTING	EXISTING	-	-	-	-	-	-	-	-	1	1	
	2.1	39+21	LT	R7-1L	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	2.2	39+44	LT	R1-1	30 X 30	5.18	-	-	-	-	-	1	-	-	-	
	2.3	41+83	LT	R2-1	24 X 30	5.00	-	-	-	-	-	-	1	-	-	25 MPH
	2.4	41+83	LT	R7-1R	18 X 24	3.00	-	-	-	-	-	-	-	-	-	MOUNTED WITH SIGN 2.3
	2.5	42+63	LT	R7-1L	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	2.6	43+04	LT	R1-1	30 X 30	5.18	-	-	-	-	-	1	-	-	-	
	2.7	39+84	RT	R1-1	30 X 30	5.18	-	-	-	-	-	1	-	-	-	
	2.8	40+06	RT	R7-1L	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	2.9	41+18	RT	R2-1	24 X 30	5.00	-	-	-	-	-	-	1	-	-	25 MPH
	2.10	41+18	RT	R7-1R	18 X 24	3.00	-	-	-	-	-	-	-	-	-	MOUNTED WITH SIGN 2.9
	2.11	43+17	RT	EXISTING	EXISTING	-	-	-	-	-	-	-	-	1	1	
	2.12	43+23	RT	EXISTING	EXISTING	-	-	-	-	-	-	-	-	1	1	
	2.13	43+32	RT	EXISTING	EXISTING	-	-	-	-	-	-	-	-	1	1	
	2.14	43+63	RT	R1-1	30 X 30	5.18	-	-	-	-	-	1	-	-	-	
	2.15	43+78	RT	R7-1L	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	3.1	44+86	LT	R7-1R	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	3.2	45+50	LT	D9-2	24 X 24	4.00	-	-	-	-	-	-	-	-	-	ON STREET LIGHT POLE
	3.3	45+50	LT	MB6-1	21 X 21	3.06	-	-	-	-	-	-	-	-	-	ON STREET LIGHT POLE
	3.4	46+40	LT	R7-1L	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	3.5	46+64	LT	R1-1	30 X 30	5.18	-	-	-	-	-	1	-	-	-	
	3.6	48+65	LT	R2-1	24 X 30	5.00	-	-	-	-	-	-	1	-	-	25 MPH
	3.7	48+65	LT	R7-1R	18 X 24	3.00	-	-	-	-	-	-	-	-	-	MOUNTED WITH SIGN 3.6
	3.8	50+00	LT	R7-1L	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	3.9	50+24	LT	R1-1	30 X 30	5.18	-	-	-	-	-	1	-	-	-	
	3.10	45+08	RT	R7-1R	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	3.11	47+03	RT	R1-1	30 X 30	5.18	-	-	-	-	-	1	-	-	-	
	3.12	47+31	RT	R7-1L	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	3.13	48+53	RT	R7-1R	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	4.1	51+78	LT	R7-1R	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	4.2	53+36	LT	R7-1L	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	4.3	53+57	LT	R1-1	30 X 30	5.18	-	-	-	-	-	1	-	-	-	
	4.4	55+88	LT	R7-1R	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	4.5	50+63	RT	R1-1	30 X 30	5.18	-	-	-	-	-	1	-	-	-	
	4.6	50+86	RT	R7-1L	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	4.7	52+20	RT	R2-1	24 X 30	5.00	-	-	-	-	-	-	1	-	-	25 MPH
	4.8	52+20	RT	R7-1R	18 X 24	3.00	-	-	-	-	-	-	-	-	-	MOUNTED WITH SIGN 4.7
	4.9	53+98	RT	R1-1	30 X 30	5.18	-	-	-	-	-	1	-	-	-	
	4.10	54+22	RT	R7-1L	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	4.11	55+83	RT	R7-1R	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	5.1	56+64	LT	J4-1	24 X 36	6.00	-	-	-	1	-	-	-	-	-	M3-3, M1-6
	5.2	57+41	LT	R2-1	24 X 30	5.00	-	-	-	-	-	-	1	-	-	25 MPH
	5.3	57+41	LT	R7-1L	18 X 24	3.00	-	-	-	-	-	-	-	-	-	MOUNTED WITH SIGN 5.2
	5.4	58+18	LT	R9-3A	24 X 24	4.00	-	-	-	-	1	-	-	-	-	
	5.5	58+18	LT	R9-3BL	18 X 12	1.50	-	-	-	-	-	-	-	-	-	MOUNTED WITH SIGN 5.4
	5.6	58+35	LT	R1-1	30 X 30	5.18	-	-	-	-	-	1	-	-	-	
	5.7	60+76	LT	R7-1R	18 X 24	3.00	-	-	-	-	-	-	-	-	-	ON STREET LIGHT POLE

CONTINUED ON NEXT PAGE

PERMANENT SIGNING CONTINUED

CATEGORY	SIGN NO.	STATION	LOCATION	SIGN CODE	SIZE IN X IN	(637.2210) SIGNS TYPE II REFLECTIVE H SF	(637.2230) SIGNS TYPE II REFLECTIVE F SF	(634.0410) POSTS WOOD 4X4-INCH X 10-FT EACH	(634.0614) POSTS WOOD 4X6-INCH X 14-FT EACH	(634.0616) POSTS WOOD 4X6-INCH X 16-FT EACH	(634.0810) POSTS TUBULAR STEEL 2X2-INCH X 10-FT EACH	(634.0811) POSTS TUBULAR STEEL 2X2-INCH X 11-FT EACH	(634.0812) POSTS TUBULAR STEEL 2X2-INCH X 12-FT EACH	(638.2102) MOVING SIGNS TYPE II EACH	(638.4000) MOVING SMALL SIGN SUPPORTS EACH	NOTES
0010	5.8	61+71	LT	R7-1L	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	5.9	61+87	LT	R1-1	30 X 30	5.18	-	-	-	-	-	1	-	-	-	
	5.10	57+36	RT	R1-1	30 X 30	5.18	-	-	-	-	-	1	-	-	-	
	5.11	57+42	RT	R9-3A	24 X 24	4.00	-	-	-	-	1	-	-	-	-	
	5.12	57+42	RT	R9-3BL	18 X 12	1.50	-	-	-	-	-	-	-	-	-	MOUNTED WITH SIGN 5.11
	5.13	58+13	RT	R7-1L	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	5.14	59+32	RT	R2-1	24 X 30	5.00	-	-	-	-	-	-	1	-	-	25 MPH
	5.15	59+32	RT	R7-1D	18 X 24	3.00	-	-	-	-	-	-	-	-	-	MOUNTED WITH SIGN 5.14
	5.16	59+78	RT	J4-1	24 X 36	6.00	-	-	1	-	-	-	-	-	-	M3-1, M1-6
	5.17	61+71	RT	R7-1D	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	5.18	56+64	LT	M1-93	24 X 24	4.00	-	-	-	-	-	-	-	-	-	MOUNTED WITH SIGN 5.1
	6.1	65+29	LT	R2-1	24 X 30	5.00	-	-	-	-	-	-	1	-	-	25 MPH
	6.2	65+29	LT	R7-1R	18 X 24	3.00	-	-	-	-	-	-	-	-	-	MOUNTED WITH SIGN 6.1
	6.3	64+00	RT	R7-1D	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	6.4	65+93	RT	R7-1D	18 X 24	3.00	-	-	-	-	-	-	-	-	-	ON STREET LIGHT POLE
	6.5	67+63	RT	R7-1D	18 X 24	3.00	-	-	-	-	-	-	-	-	-	ON STREET LIGHT POLE
	7.1	68+86	LT	R7-1L	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	7.2	69+07	LT	R1-1	30 X 30	5.18	-	-	-	-	-	1	-	-	-	
	7.3	70+31	LT	R2-1	24 X 30	5.00	-	-	-	-	-	-	1	-	-	25 MPH
	7.4	70+31	LT	R7-1R	18 X 24	3.00	-	-	-	-	-	-	-	-	-	MOUNTED WITH SIGN 7.3
	7.5	71+82	LT	R7-1L	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	7.6	72+08	LT	R1-1	30 X 30	5.18	-	-	-	-	-	1	-	-	-	
	7.8	73+31	LT	R7-1R	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	7.9	74+35	LT	W11-2	30 X 30	-	6.25	-	-	-	-	1	-	-	-	
	7.10	74+35	LT	W16-9P	24 X 12	-	2.00	-	-	-	-	-	-	-	-	MOUNTED WITH SIGN 7.9
	7.11	69+76	RT	R2-1	24 X 30	5.00	-	-	-	-	-	-	1	-	-	25 MPH
	7.12	69+76	RT	R7-1D	18 X 24	3.00	-	-	-	-	-	-	-	-	-	MOUNTED WITH SIGN 7.11
	7.13	70+30	RT	W11-2	30 X 30	-	6.25	-	-	-	-	1	-	-	-	
	7.14	70+30	RT	W16-9P	24 X 12	-	2.00	-	-	-	-	-	-	-	-	MOUNTED WITH SIGN 7.13
	7.15	71+47	RT	R7-1R	18 X 24	3.00	-	-	-	-	-	-	-	-	-	ON STREET LIGHT POLE
	7.17	72+51	RT	R1-1	30 X 30	5.18	-	-	-	-	-	1	-	-	-	
	7.18	72+77	RT	R7-1L	18 X 24	3.00	-	-	-	-	-	-	-	-	-	ON STREET LIGHT POLE
	7.19	73+83	RT	EXISTING	EXISTING	-	-	-	-	-	-	1	-	1	-	
	8.1	74+93	LT	R7-1L	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	8.2	75+09	LT	R1-1	30 X 30	5.18	-	-	-	-	-	1	-	-	-	
	8.3	75+70	LT	R7-1R	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	8.4	77+35	LT	D9-2	24 X 24	4.00	-	-	-	-	-	1	-	-	-	
	8.5	77+35	LT	MB6-1	21 X 21	3.06	-	-	-	-	-	-	-	-	-	MOUNTED WITH SIGN 8.4
	8.6	78+56	LT	R7-1L	18 X 24	3.00	-	-	-	-	1	-	-	-	-	
	8.7	78+72	LT	R1-1	30 X 30	5.18	-	-	-	-	-	1	-	-	-	
	8.8	79+48	LT	R2-1	24 X 30	5.00	-	-	-	-	-	1	-	-	-	25 MPH
	8.9	84+23	LT	W3-5	36 X 36	-	9.00	-	-	-	-	1	-	-	-	
	8.10	75+00	RT	R7-1D	18 X 24	3.00	-	-	-	-	-	-	-	-	-	ON STREET LIGHT POLE
	8.11	77+10	RT	R7-1D	18 X 24	3.00	-	-	-	-	-	-	-	-	-	ON STREET LIGHT POLE
	8.12	79+20	RT	R7-1D	18 X 24	3.00	-	-	-	-	-	-	-	-	-	ON STREET LIGHT POLE
	8.13	80+62	RT	R2-1	24 X 30	5.00	-	-	-	-	-	1	-	-	-	45 MPH
	8.14	79+55	RT	PATH ENDS	24 X 18	3.00	-	1	-	-	-	-	-	-	-	SEE SIGN PLATE DETAIL
		PROJECT TOTALS				**412.29**	**25.50**	**1**	**1**	**6**	**31**	**27**	**11**	**5**	**4**	

RECTANGULAR RAPID FLASHING BEACON (RRFB) WITH PEDESTRIAN ACTIVATION

CATEGORY	SIGN NO	STATION	LOCATION	(SPV.0105.02) LS	(654.0101) CONCRETE BASES TYPE 1 EACH	NOTES
0010	7.7	72+73.5	26.6' LT	-	1	7' MOUNTING HEIGHT, SEE DETAIL
	7.16	72+62.1	30.1' RT	-	1	7' MOUNTING HEIGHT, SEE DETAIL
		PROJECT TOTALS		**1**	**2**	

TRAFFIC CONTROL

CATEGORY	DESCRIPTION	(643.0100) TRAFFIC CONTROL (PROJECT) EACH	BARRICADES TYPE III NO. DEVICES	* (643.0420) TRAFFIC CONTROL BARRICADES TYPE III DAY	WARNING LIGHTS TYPE A NO. DEVICES	* (643.0705) TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	SIGNS NO. DEVICES	* (643.0900) TRAFFIC CONTROL SIGNS DAY	SIGNS FIXED MESSAGE NO. DEVICES	* (643.1000) TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	DURATION	
0010	22ND STREET	-	4	832	6	1,248	7	1,456	4	21	208	DAYS
	23RD STREET	-	8	1,664	12	2,496	4	832	-	-	208	DAYS
	24TH STREET	-	8	1,664	12	2,496	8	1,664	-	-	208	DAYS
	25TH STREET	-	8	1,664	12	2,496	4	832	-	-	208	DAYS
	26TH STREET	-	8	1,664	12	2,496	4	832	-	-	208	DAYS
	27TH STREET	-	8	1,664	12	2,496	4	832	-	-	208	DAYS
	28TH STREET	-	8	1,664	12	2,496	4	832	-	-	208	DAYS
	29TH STREET	-	5	1,040	8	1,664	3	624	-	-	208	DAYS
	30TH STREET	-	5	1,040	8	1,664	3	624	-	-	208	DAYS
	31ST STREET	-	5	1,040	8	1,664	3	624	-	-	208	DAYS
	33RD STREET	-	5	1,040	8	1,664	3	624	-	-	208	DAYS
	34TH STREET	-	8	1,664	12	2,496	10	2,080	-	-	208	DAYS
	35TH PLACE	-	4	492	6	738	2	246	-	-	123	DAYS
	LINCOLN AVENUE	-	10	2,080	16	3,328	7	1,456	-	-	208	DAYS
	PROJECT 1470-18-71	1	-	-	-	-	-	-	-	-	208	DAYS
	PROJECT TOTALS	**1**	**-**	**19,212**	**-**	**29,442**	**-**	**13,558**	**-**	**21**		

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

FENCE SAFETY

CATEGORY	DESCRIPTION	(616.0700.S) LF
0010	UNDISTRIBUTED	500
	PROJECT TOTAL	**500**

PEDESTRIAN DETOUR

CATEGORY	DESCRIPTION	BARRICADES TYPE II NO. DEVICES	(643.0410) TRAFFIC CONTROL BARRICADES TYPE II DAY	WARNING LIGHTS TYPE A NO. DEVICES	* (643.0705) TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	SIGNS NO. DEVICES	* (643.0900) TRAFFIC CONTROL SIGNS DAY	SIGNS FIXED MESSAGE NO. DEVICES	* (643.1000) TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	(SPV.0045.01) TEMPORARY CROSSWALK ACCESS DAY	(644.1601.S) TEMPORARY CURB RAMP EACH	(644.1616.S) TEMPORARY PEDESTRIAN SAFETY FENCE LF	DURATION	
0010	22ND STREET	2	416	2	416	8	1,664	2	10	-	-	-	208	DAYS
	23RD STREET	4	832	4	832	4	832	-	-	-	4	200	208	DAYS
	24TH STREET	4	832	4	832	4	832	-	-	208	4	200	208	DAYS
	25TH STREET	4	832	4	832	4	832	-	-	-	2	200	208	DAYS
	26TH STREET	4	832	4	832	4	832	-	-	-	4	200	208	DAYS
	27TH STREET	4	832	4	832	4	832	-	-	-	4	200	208	DAYS
	28TH STREET	4	832	4	832	4	832	-	-	208	4	200	208	DAYS
	29TH STREET	2	416	2	416	2	416	-	-	-	2	100	208	DAYS
	30TH STREET	2	416	2	416	2	416	-	-	-	2	100	208	DAYS
	31ST STREET	2	416	2	416	2	416	-	-	-	2	100	208	DAYS
	33RD STREET	2	416	2	416	2	416	-	-	-	2	100	208	DAYS
	34TH STREET	1	208	1	208	3	624	-	-	208	4	200	208	DAYS
	PROJECT TOTALS	**-**	**7,280**	**-**	**7,280**	**-**	**8,944**	**-**	**10**	**624**	**34**	**1,800**		

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

TRAFFIC CONTROL DETOUR

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 208 DAYS	(643.3000) TRAFFIC CONTROL DETOUR SIGNS DAYS	* (643.0420) TRAFFIC CONTROL BARRICADES TYPE III DAYS	* (643.0705) TRAFFIC CONTROL WARNING LIGHTS TYPE A DAYS	NUMBER OF CYCLES OF COVERINGS	(643.0920) TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	(643.1050) TRAFFIC CONTROL SIGNS PCMS DAYS	(643.2000) TRAFFIC CONTROL DETOUR (PROJECT) EACH	NOTES
1	100' S OF 19TH ST INTERSECTION ON STH 42	W20-2-A	48"x48"	1	208	208	-	-	-	-	-	-	ON TEMPORARY STAND
2	100' S OF 20TH ST INTERSECTION ON STH 42	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	ON TEMPORARY STAND
	"	M 3-1	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
	"	MO 5-1-L	21"x21"	1	208	208	-	-	-	-	-	-	
3	100' S OF 21ST ST INTERSECTION ON STH 42	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	ON TEMPORARY STAND
	"	M 3-1	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
	"	MO 6-1	21"x21"	1	208	208	-	-	-	-	-	-	LEFT
4	NW QUAD OF 22ND ST & WASHINGTON ST INTERSECTION	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 3-1	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
	"	MO 6-1	21"x21"	1	208	208	-	-	-	-	-	-	LEFT
5	J3-1 (N-42-RT) (OVERHEAD)	-	-	-	-	-	-	-	1	1	-	-	NORTH 42
6	ABOVE J4-1 (N-147)	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 3-1	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
7	J4-1 (N-42)	-	-	-	-	-	-	-	1	1	-	-	NORTH 42
8	SE QUAD OF WASHINGTON ST & 22ND ST INTERSECTION	R-11-3	60"x30"	1	208	208	208	416	-	-	-	-	1/2 MILE
9	MODIFY J13-1 (42-AH & RT)	M 1-6	EXISTING	-	-	-	-	-	-	-	-	-	
	"	MO 6-1	21"x21"	1	208	208	-	-	-	-	-	-	RIGHT
10	MODIFY J1-1 (JCT 42)	M 4-8-A	24"x18"	1	208	208	-	-	-	-	-	-	
	"	M1-6	EXISTING	-	-	-	-	-	-	-	-	-	
11	100' E OF J12-1 (147-AH RT)	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	ON TEMPORARY STAND
	"	M 3-1	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
	"	MO 5-1-R	21"x21"	1	208	208	-	-	-	-	-	-	
12	100' E OF STOP SIGN	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	ON TEMPORARY STAND
	"	M 3-1	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
	"	MO 6-1	21"x21"	1	208	208	-	-	-	-	-	-	RIGHT
13	20' E OF MONROE ST - RT TURN LANE	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 3-3	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
14	50'N OF STOP SIGN	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	ON TEMPORARY STAND
	"	M 3-3	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
	"	MO 6-1	21"x21"	1	208	208	-	-	-	-	-	-	LEFT
15	50' N OF J12-1 (147-AH LT)	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 3-3	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
	"	MO 5-1-L	21"x21"	1	208	208	-	-	-	-	-	-	
16	50' N OF J4-1 (N-147)	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	ON TEMPORARY STAND
	"	M 3-1	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
17	ABOVE M1-6 (147) @ 27TH ST	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 3-3	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
18	ABOVE M1-6 (147) @ 27TH ST	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 3-1	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
19	50 ' S OF TARINERY RD INTERSECTION ON STH 147	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 3-3	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
20	50 ' N OF TARINERY RD INTERSECTION ON STH 147	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 3-1	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
21	50 ' S OF M1-6 (147) @ 37TH ST	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 3-3	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
22	ACROSS FROM SIGN # 21 NB DIRECTION	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 3-1	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
23	100' S OF J1-1 (JCT VV)	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 3-1	24"x12"	1	208	208	-	-	-	-	-	-	

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TRAFFIC CONTROL DETOUR CONTINUED

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 208 DAYS	(643.3000) TRAFFIC CONTROL DETOUR SIGNS DAYS	* (643.0420) TRAFFIC CONTROL BARRICADES TYPE III DAYS	* (643.0705) TRAFFIC CONTROL WARNING LIGHTS TYPE A DAYS	NUMBER OF CYCLES OF COVERINGS	(643.0920) TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	(643.1050) TRAFFIC CONTROL SIGNS PCMS DAYS	(643.2000) TRAFFIC CONTROL DETOUR (PROJECT) EACH	NOTES
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
	"	MO 5-1-R	21"x21"	1	208	208	-	-	-	-	-	-	
24	50' S OF STOP SIGN	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 3-1	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
	"	MO 6-1	21"x21"	1	208	208	-	-	-	-	-	-	RIGHT
25	150' E OFSTH 147 INTERSECTION ON CTH VV	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 3-1	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
26	150 ' S OF CTH VV INTERSECTION ON STH 147	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 3-3	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
27	ABOVE J13-2 (VV-AH; 147-LT)	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 3-3	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
	"	MO 6-1	21"x21"	1	208	208	-	-	-	-	-	-	LEFT
28	ABOVE J1-1 (JCT 147)	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 3-3	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
	"	MO 5-1-L	21"x21"	1	208	208	-	-	-	-	-	-	
29	100' W OF BELLEVUE ST INTERSECTION ON CTH VV	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 3-3	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
30	100' E OF BELLEVUE ST INTERSECTION ON CTH VV	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 3-1	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
31	100' W OF TANNERY RD INTERSECTION ON CTH VV	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 3-3	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
32	100' E OF TANNERY RD INTERSECTION ON CTH VV	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 3-1	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
33	100' W OF RIVERVIEW DR INTERSECTION ON CTH VV	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 3-3	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
34	100' E OF RIVERVIEW DR INTERSECTION ON CTH VV	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 3-1	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
35	MODIFY J1-2 (JCT 42; END VV)	MO 4-8-A	24"x18"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	EXISTING	-	-	-	-	-	-	-	-	-	
36	MODIFY J13-1 (42-DBL ARROW)	M 1-6	EXISTING	-	-	-	-	-	-	-	-	-	
	"	MO 6-1	21"x21"	1	208	208	-	-	-	-	-	-	LEFT
37	200' W OF STH 42 INTERSECTION ON CTH VV	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 3-3	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
38	MODIFY J13-2 (42-DBL ARROW; VV-AH)	M 1-6	EXISTING	-	-	-	-	-	-	-	-	-	
	"	MO 6-1	21"x21"	1	208	208	-	-	-	-	-	-	RIGHT
39	RT OF J13-1 (VV-RT)	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 3-3	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
	"	MO 6-1	21"x21"	1	208	208	-	-	-	-	-	-	RIGHT
40	RT OF J1-1 (JCT VV)	M 4-8	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 3-3	24"x12"	1	208	208	-	-	-	-	-	-	
	"	M 1-6	24"x24"	1	208	208	-	-	-	-	-	-	42
	"	MO 5-1-R	21"x21"	1	208	208	-	-	-	-	-	-	
41	700' N OF SIGN # 40	W20-2-A	48"x48"	1	208	208	-	-	-	-	-	-	
42	SW QUAD OF STH 42 & CTH VV INTERSECTION	R 11-3	60"x30"	1	208	208	208	416	-	-	-	-	1 MILE
43	FACING SB TRAFFIC, TO BE DETERMINED IN THE FIELD		PCMS	1	6	-	-	-	-	-	6	-	PRIOR TO CONST START
44	FACING NB TRAFFIC, TO BE DETERMINED IN THE FIELD		PCMS	1	6	-	-	-	-	-	6	-	PRIOR TO CONST START
	PROJECT 1470-18-71	-	-	-	-	-	-	-	-	-	-	1	
	PROJECT TOTALS					**23,920**	**416**	**832**	**-**	**2**	**12**	**1**	

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

PAVEMENT MARKINGS

CATEGORY	STATION	TO STATION	(646.0600) REMOVING PAVEMENT MARKINGS LF	(646.0106) PAVEMENT MARKING EPOXY 4-INCH (YELLOW) LF	(646.0106) PAVEMENT MARKING EPOXY 4-INCH (WHITE) LF	(646.0126) PAVEMENT MARKING EPOXY 8-INCH (WHITE) LF	(647.0166) PAVEMENT MARKING ARROWS EPOXY TYPE 2 EACH	(647.0206) PAVEMENT MARKING ARROWS BIKE LANE EPOXY EACH	(647.0306) PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY EACH	(647.0356) PAVEMENT MARKING WORDS EPOXY EACH	(647.0406) PAVEMENT MARKING WORDS BIKE LANE EPOXY EACH	(647.0566) PAVEMENT MARKING STOP LINE EPOXY 18-INCH LF	(647.0656) PAVEMENT MARKING PARKING STALL EPOXY (YELLOW) LF	(647.0766) PAVEMENT MARKING CROSSWALK EPOXY 6-INCH LF
0010	32+70	35+65	-	570	30	195	4	-	-	2	-	11	55	119
	35+65	36+41	-	-	-	-	-	-	-	-	-	31	-	313
	36+41	39+26	-	570	850	-	-	2	3	-	1	-	-	-
	39+26	40+02	-	-	-	-	-	-	-	-	-	27	-	287
	40+02	42+67	-	530	850	-	-	2	2	-	-	-	-	-
	42+67	43+73	-	-	-	-	-	-	-	-	-	34	-	372
	43+73	46+46	-	550	805	-	-	2	2	-	-	-	-	-
	46+46	47+22	-	-	-	-	-	-	-	-	-	27	-	280
	47+22	50+05	-	570	875	-	-	2	2	-	-	-	-	-
	50+05	50+81	-	-	-	-	-	-	-	-	-	26	-	280
	50+81	53+41	-	520	745	-	-	2	2	-	-	-	-	-
	53+41	54+17	-	-	-	-	-	-	-	-	-	30	-	295
	54+17	56+75	-	515	775	-	-	2	2	-	-	-	-	-
	56+75	58+93	-	415	480	-	-	2	2	-	-	32	-	298
	58+93	61+79	-	575	755	-	-	2	2	-	-	-	-	-
	61+79	62+47	-	-	60	-	-	-	-	-	-	16	-	223
	62+47	68+93	-	1,295	1,575	-	-	4	4	-	-	-	-	-
	68+93	69+67	-	-	60	-	-	-	-	-	-	17	-	231
	69+67	71+90	-	445	580	-	-	2	2	-	-	-	-	-
	71+90	72+73	-	-	-	-	-	-	-	-	-	33	-	304
	72+73	79+25	-	1,305	1,225	-	-	3	4	-	1	34	-	156
	79+25	80+50	125	40	230	-	-	-	-	-	-	-	-	67
SUBTOTALS			**-**	**7,900**	**9,895**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
PROJECT TOTALS			**125**	**17,795**		**195**	**4**	**25**	**27**	**2**	**2**	**318**	**55**	**3,225**

CONSTRUCTION STAKING

CATEGORY	STATION	TO STATION	LOCATION	(650.4500) SUBGRADE LF	(650.7000) CONCRETE PAVEMENT LF	(650.9910) SUPPLEMENTAL CONTROL LS	(650.9920) SLOPE STAKES LF
0010	33+10	35+65	LT & RT	255	255	-	255
	35+65	36+41	LT & RT	76	76	-	76
	36+41	39+26	LT & RT	285	285	-	285
	39+26	40+02	LT & RT	76	76	-	76
	40+02	42+67	LT & RT	265	265	-	265
	42+67	43+73	LT & RT	106	106	-	106
	43+73	46+46	LT & RT	273	273	-	273
	46+46	47+22	LT & RT	76	76	-	76
	47+22	50+05	LT & RT	283	283	-	283
	50+05	50+81	LT & RT	76	76	-	76
	50+81	53+41	LT & RT	260	260	-	260
	53+41	54+17	LT & RT	76	76	-	76
	54+17	56+75	LT & RT	258	258	-	258
	56+75	58+92	LT & RT	217	217	-	217
	58+92	61+79	LT & RT	287	287	-	287
	61+79	62+47	LT & RT	68	68	-	68
	62+47	68+93	LT & RT	646	646	-	646
	68+93	69+67	LT & RT	74	74	-	74
	69+67	71+90	LT & RT	223	223	-	223
	71+90	72+73	LT & RT	83	83	-	83
	72+73	79+36	LT & RT	663	663	-	663
	79+36	79+50	LT & RT	14	14	-	14
		PROJECT 1470-18-71		-	-	1	-
		PROJECT TOTALS		**4,640**	**4,640**	**1**	**4,640**

3

CONDUIT RIGID NONMETALLIC

CATEGORY	FROM	TO	* (652.0225) SCHEDULE 40 2-INCH LF	(652.0235) SCHEDULE 40 3-INCH LF	* (652.0325) SCHEDULE 80 2-INCH LF
0020	LP-1	LP-2	221	-	-
	LP-2	LP-3	146	-	70
	LP-3	PB-L1	164	-	-
	PB-L1	LP-4	-	-	72
	LP-4	LP-5	180	-	-
	LP-5	LP-6	125	-	60
	LP-6	LP-7	175	-	-
	LP-7	LP-8	120	-	60
	LP-8	LP-9	180	-	-
	LP-9	LP-10	118	-	60
	LP-10	LP-11	169	-	-
	LP-11	LP-12	109	-	60
	LP-12	PB-L2	124	-	-
	PB-L2	LP-13	119	-	-
	LP-13	PB-L3	142	-	-
	PB-L3	LP-14	-	-	87
	LP-14	LP-15	178	-	-
	LP-15	LP-16	112	-	65
	LP-16	LP-17	163	-	-
	LP-17	PB-L4	84	-	-
	PB-L4	PB-L5	-	-	52
	PB-L5	LCC-1	-	45	-
	PB-L5	LP-18	93	-	-
	LP-18	LP-19	170	-	-
	LP-19	LP-20	177	-	-
	LP-20	LP-21	207	-	-
	LP-21	PB-L6	43	-	70
	PB-L6	SIGN 7.7	-	-	108
	PB-L6	SIGN 7.16	10	-	-
	PB-L6	LP-22	18	-	-
	LP-22	LP-23	226	-	-
	LP-23	LP-24	213	-	-
	LP-24	LP-25	214	-	-
	LP-25	STUB	27	-	-
	PROJECT TOTALS		**4,027**	**45**	**764**

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

ELECTRICAL WIRE LIGHTING

CATEGORY	FROM	TO	* (655.0610) 12 AWG LF	(655.0620) 8 AWG LF	(655.0630) 4 AWG LF	(655.0635) 2 AWG LF
0020	LP-1	LP-2	-	-	693	-
	LP-2	LP-3	-	-	678	-
	LP-3	PB-L1	-	-	555	-
	PB-L1	LP-4	-	-	279	-
	LP-4	LP-5	-	-	570	-
	LP-5	LP-6	-	-	-	585
	LP-6	LP-7	-	-	-	555
	LP-7	LP-8	-	-	-	570
	LP-8	LP-9	-	-	-	570
	LP-9	LP-10	-	-	-	564
	LP-10	LP-11	-	-	-	537
	LP-11	LP-12	-	-	-	537
	LP-12	PB-L2	-	-	-	435
	PB-L2	LP-13	-	-	-	420
	LP-13	PB-L3	-	-	-	489
	PB-L3	LP-14	-	-	-	324
	LP-14	LP-15	-	-	-	564
	LP-15	LP-16	-	-	-	561
	LP-16	LP-17	-	-	-	519
	LP-17	PB-L4	-	-	-	315
	PB-L4	PB-L5	-	-	-	252
	PB-L5	LCC-1	138	138	-	138
	PB-L5	LP-18	342	342	-	-
	LP-18	LP-19	540	540	-	-
	LP-19	LP-20	561	561	-	-
	LP-20	LP-21	651	651	-	-
	LP-21	PB-L6	402	402	-	-
	PB-L6	SIGN 7.7	225	-	-	-
	PB-L6	SIGN 7.16	78	-	-	-
	PB-L6	LP-22	-	117	-	-
	LP-22	LP-23	-	708	-	-
	LP-23	LP-24	-	669	-	-
	LP-24	LP-25	-	672	-	-
	LP-25	STUB	-	-	-	-
	PROJECT TOTALS		**2,937**	**4,800**	**2,775**	**7,935**

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

PULL BOXES STEEL 24x42-INCH

CATEGORY	PULL BOX NUMBER	STATION	LOCATION	(653.0140) EACH
0020	PB-L1	39+38.5	26.0' LT	1
	PB-L2	55+50.0	26.0' LT	1
	PB-L3	58+11.0	26.0' LT	1
	PB-L4	65+00.0	26.0' LT	1
	PB-L5	65+00.0	26.0' RT	1
	PB-L6	72+60.5	26.0' RT	1
		PROJECT TOTAL		**6**

CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS

CATEGORY	PROJECT	(650.8500.01) LS
0020	1470-18-71	1
	PROJECT TOTAL	**1**

STREET LIGHT POLE ASSEMBLY

CATEGORY	POLE NUMBER	STATION	LOCATION	(654.0105) CONCRETE BASES TYPE 5 EACH	(657.0255) TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	(657.0322) POLES TYPE 5-ALUMINUM EACH	(657.0615) LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 8-FT EACH	(659.1120) LUMINAIRES UTILITY LED B EACH	(SPV.0060.06) LIGHTING ASSEMBLIES BLACK FINISH EACH	* (655.0610) ELECTRICAL WIRE LIGHTING 12 AWG LF
0020	LP-1	33+39.0	26.54' LT	1	1	1	1	1	1	123
	LP-2	35+59.5	26.54' LT	1	1	1	1	1	1	123
	LP-3	37+75.0	26.54' LT	1	1	1	1	1	1	123
	LP-4	40+10.0	26.54' LT	1	1	1	1	1	1	123
	LP-5	41+90.0	26.54' LT	1	1	1	1	1	1	123
	LP-6	43+75.0	26.54' LT	1	1	1	1	1	1	123
	LP-7	45+50.0	26.54' LT	1	1	1	1	1	1	123
	LP-8	47+30.0	26.54' LT	1	1	1	1	1	1	123
	LP-9	49+10.0	26.54' LT	1	1	1	1	1	1	123
	LP-10	50+88.0	26.54' LT	1	1	1	1	1	1	123
	LP-11	52+57.0	26.54' LT	1	1	1	1	1	1	123
	LP-12	54+26.0	26.54' LT	1	1	1	1	1	1	123
	LP-13	56+69.0	26.54' LT	1	1	1	1	1	1	123
	LP-14	58+98.0	26.54' LT	1	1	1	1	1	1	123
	LP 15	60+76.0	26.54' LT	1	1	1	1	1	1	123
	LP-16	62+53.0	26.54' LT	1	1	1	1	1	1	123
	LP-17	64+16.0	26.54' LT	1	1	1	1	1	1	123
	LP-18	65+93.0	26.54' RT	1	1	1	1	1	1	123
	LP-19	67+63.0	26.54' RT	1	1	1	1	1	1	123
	LP-20	69+40.0	26.54' RT	1	1	1	1	1	1	123
	LP-21	71+47.0	26.54' RT	1	1	1	1	1	1	123
	LP-22	72+77.0	25.50' RT	1	1	1	1	1	1	123
	LF-23	75+00.0	25.50' RT	1	1	1	1	1	1	123
	LP-24	77+10.0	25.50' RT	1	1	1	1	1	1	123
	LP-25	79+20.0	25.50' RT	1	1	1	1	1	1	123
PROJECT TOTALS				**25**	**25**	**25**	**25**	**25**	**25**	**3,075**

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

STREET LIGHTING CONTROL CABINET

CATEGORY	CABINET NUMBER	STATION	LOCATION	(654.0224) CONCRETE CONTROL CABINET BASES TYPE L24 EACH	(656.0200.01) ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) LS	(659.2124) LIGHTING CONTROL CABINETS 120/240 24-INCH EACH
0020	LCC-1	65+00.0	48.5' RT	1	1	1
PROJECT TOTALS				**1**	**1**	**1**

CONCRETE JOINT SEALING

CATEGORY	STATION	TO STATION	LOCATION	(SPV.0180.02) SY
0010	33+10	35+65	LT & RT	1,264
	35+65	36+41	LT & RT	533
	23RD STREET (WEST APPROACH)			117
	23RD STREET (EAST APPROACH)			74
	36+41	39+26	LT & RT	1,185
	39+26	40+02	LT & RT	518
	24TH STREET (WEST APPROACH)			89
	24TH STREET (EAST APPROACH)			71
	40+02	42+67	LT & RT	1,144
	42+67	43+73	LT & RT	664
	25TH STREET (WEST APPROACH)			85
	25TH STREET (EAST APPROACH)			76
	43+73	46+46	LT & RT	1,131
	46+46	47+22	LT & RT	506
	26TH STREET (WEST APPROACH)			77
	26TH STREET (EAST APPROACH)			56
	47+22	50+05	LT & RT	1,198
	50+05	50+81	LT & RT	504
	27TH STREET (WEST APPROACH)			123
	27TH STREET (EAST APPROACH)			98
	50+81	53+41	LT & RT	1,061
	53+41	54+17	LT & RT	520
	28TH STREET (WEST APPROACH)			35
	28TH STREET (EAST APPROACH)			71
	54+17	56+75	LT & RT	1,077
	56+75	58+92	LT & RT	1,190
	29TH STREET (EAST APPROACH)			87
	30TH STREET (WEST APPROACH)			63
	58+92	61+79	LT & RT	1,135
	61+79	62+47	LT & RT	382
	31ST STREET (WEST APPROACH)			74
	62+47	68+93	LT & RT	2,481
	68+93	69+67	LT & RT	412
	33RD STREET (WEST APPROACH)			80
	69+67	71+90	LT & RT	870
	71+90	72+73	LT & RT	570
	34TH STREET (WEST APPROACH)			79
	34TH STREET (EAST APPROACH)			77
	72+73	79+36	LT & RT	2,579
	35TH STREET (WEST APPROACH)			44
	35TH PLACE (WEST APPROACH)			41
	79+36	79+50	LT & RT	50
	PROJECT TOTAL			**22,489**

MINI STORM SEWER SYSTEM

CATEGORY	STATION	TO STATION	LOCATION	(SPV.0090.04) MINI STORM SEWER 6-INCH LF	(SPV.0090.05) MINI STORM SEWER LATERAL 4-INCH LF	(SPV.0090.06) STORM SEWER LATERAL 4-INCH LF	(SPV.0060.08) MINI STORM SEWER CLEANOUTS EACH	CLEANOUT STATION	CLEANOUT INVERT ELEV	DISCHARGE STATION	DISCHARGE INLET ID	DISCHARGE INVERT ELEV
0010	36+18	36+33	LT	-	-	15	-	-	-	-	-	-
	36+51	38+01	RT	154	6	-	1	36+51	585.90	37+54	10.1	585.20
	37+52	38+96	LT	147	6	-	1	38+96	586.20	37+52	10.0	585.30
	38+01	38+58	RT	62	4	-	1	38+58	585.80	38+01	10.2	585.38
	39+34	39+50	RT	-	-	16	-	-	-	-	-	-
	40+05	-	LT	-	-	11	-	-	-	-	-	-
	40+05	40+72	RT	70	4	-	1	40+70	586.20	40+05	11.2	585.70
	40+68	-	LT	-	-	16	-	-	-	-	-	-
	41+19	-	LT	-	-	16	-	-	-	-	-	-
	41+41	42+53	RT	118	6	-	1	41+41	586.10	42+53	13.1	585.40
	41+60	-	LT	-	-	11	-	-	-	-	-	-
	42+14	-	LT	-	-	16	-	-	-	-	-	-
	42+53	-	LT	-	-	16	-	-	-	-	-	-
	43+84	-	RT	-	-	17	-	-	-	-	-	-
	43+85	-	LT	-	-	11	-	-	-	-	-	-
	44+29	-	LT	-	-	17	-	-	-	-	-	-
	44+68	45+15	RT	51	4	-	1	44+68	587.10	45+15	18.1	586.80
	44+91	45+21	LT	42	4	-	2	45+21	587.60	44+91	18.0	587.20
	45+15	45+73	RT	62	4	-	1	45+73	587.90	45+15	18.1	587.20
	46+09	-	LT	-	-	16	-	-	-	-	-	-
	46+54	46+69	RT	-	-	15	-	-	-	-	-	-
	47+25	-	LT	-	-	11	-	-	-	-	-	-
	47+25	47+31	RT	-	-	18	-	-	-	-	-	-
	48+13	48+70	RT	62	4	-	1	48+10	589.70	48+70	20.1	589.00
	48+62	48+72	LT	-	-	19	-	-	-	-	-	-
	48+70	49+35	RT	69	2	-	1	49+70	588.91	48+70	20.1	588.10
	49+79	-	LT	-	-	17	-	-	-	-	-	-
	50+14	50+29	RT	-	-	16	-	-	-	-	-	-
	50+85	-	LT	-	-	11	-	-	-	-	-	-
	50+85	51+55	RT	77	4	-	1	51+55	591.25	50+85	21.2	590.45
	52+23	52+34	RT	-	-	15	-	-	-	-	-	-
	52+34	52+52	RT	-	-	21	-	-	-	-	-	-
	52+34	-	LT	-	-	16	-	-	-	-	-	-
	53+49	53+64	RT	-	-	16	-	-	-	-	-	-
	54+33	55+33	RT	106	4	-	1	55+33	594.63	54+33	23.5	593.50
	55+42	-	LT	-	-	16	-	-	-	-	-	-
	55+95	-	LT	-	-	17	-	-	-	-	-	-
	56+83	56+97	RT	-	-	14	-	-	-	-	-	-
	57+32	57+46	RT	-	-	14	-	-	-	-	-	-
	57+59	-	LT	-	-	11	-	-	-	-	-	-
	58+96	-	LT	-	-	11	-	-	-	-	-	-
	59+64	-	RT	-	-	17	-	-	-	-	-	-
	60+54	61+11	LT	60	4	-	1	61+11	601.59	60+54	26.2	600.42
	62+50	62+53	LT	-	-	12	-	-	-	-	-	-
	63+45	-	LT	-	-	17	-	-	-	-	-	-
	64+20	-	LT	-	-	11	-	-	-	-	-	-
	64+20	-	RT	-	-	17	-	-	-	-	-	-
	66+38	-	LT	-	-	16	-	-	-	-	-	-
	68+22	-	LT	-	-	17	-	-	-	-	-	-
	68+73	-	LT	-	-	17	-	-	-	-	-	-
	69+80	-	LT	-	-	11	-	-	-	-	-	-
	69+80	-	RT	-	-	17	-	-	-	-	-	-
	71+43	-	LT	-	-	17	-	-	-	-	-	-
	71+43	-	RT	-	-	11	-	-	-	-	-	-
	72+77	-	LT	-	-	11	-	-	-	-	-	-
	72+87	-	RT	-	-	23	-	-	-	-	-	-
	75+06	75+23	LT	-	-	17	-	-	-	-	-	-
	75+75	-	LT	-	-	17	-	-	-	-	-	-
	75+75	-	RT	-	-	23	-	-	-	-	-	-
	76+97	-	LT	-	-	17	-	-	-	-	-	-
	PROJECT TOTALS			**1,080**	**56**	**724**	**14**					

CONDUIT RIGID NONMETALLIC

CATEGORY	FROM	TO	* (652.0225) SCHEDULE 40 2-INCH LF	* (652.0325) SCHEDULE 80 2-INCH LF
0010	PCPB-1	PCPB-2	530	70
	PCPB-2	PCPB-3	590	132
	PCPB-3	PCPB-4	572	120
	PCPB-4	PCPB-5	429	147
	PCPB-5	PCPB-6	506	65
	PCPB-6	PCPB-7	-	52
	PCPB-7	PCPB-8	689	-
	PCPB-8	PCPB-9	655	75
	PCPB-9	STUB	30	-
	PROJECT TOTALS		**4,001**	**661**

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

POLYMER CONCRETE PULL BOX

CATEGORY	PULL BOX NUMBER	STATION	LOCATION	(SPV.0060.07) EACH
0010	PCPB-1	33+35.0	26.0' LT	1
	PCPB-2	39+35.0	26.0' LT	1
	PCPB-3	46+57.0	26.0' LT	1
	PCPB-4	53+49.0	26.0' LT	1
	PCPB-5	59+25.0	26.0' LT	1
	PCPB-6	64+96.0	26.0' LT	1
	PCPB-7	64+96.0	26.0' RT	1
	PCPB-8	71+85.0	26.0' RT	1
	PCPB-9	79+15.0	27.7' RT	1
	PROJECT TOTAL			**9**

CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS

CATEGORY	PROJECT	(650.8500.02) LS
0010	1470-18-72	1
	PROJECT TOTAL	**1**

3

REMOVE SANITARY MANHOLE

CATEGORY	STATION	LOCATION	(SPV.0060.10) EACH	NOTES
0010	36+02	C/L	1	LINCOLN AVE. / 23RD ST.
	39+64	C/L	1	LINCOLN AVE. / 24TH ST.
	40+24	C/L	1	LINCOLN AVE. / 24TH ST.
	43+23	C/L	1	LINCOLN AVE. / 25TH ST.
	46+84	C/L	1	LINCOLN AVE. / 26TH ST.
	50+42	C/L	1	LINCOLN AVE. / 27TH ST.
	53+78	C/L	1	LINCOLN AVE. / 28TH ST.
	57+12	C/L	1	LINCOLN AVE. / 29TH ST.
	59+12	C/L	1	LINCOLN AVE. / 30TH ST.
	59+28	18' LT	1	LINCOLN AVE. / 30TH ST.
	62+09	20' LT	1	LINCOLN AVE. / 31ST ST.
	65+67	20' LT	1	LINCOLN AVE. / 32ND ST.
	69+29	20' LT	1	LINCOLN AVE. / 33RD ST.
	71+53	20' LT	1	34TH ST. MIDBLOCK
	72+29	34' RT	1	LINCOLN AVE. / 34TH ST.
	75+31	33' RT	1	LINCOLN AVE. / 35TH ST.
	78+89	34' RT	1	35TH PL.
	PROJECT TOTAL		**17**	

ADJUSTING SANITARY MANHOLE CASTING

CATEGORY	STATION	LOCATION	(SPV.0060.22) EACH	NOTES
0010	46+83	62' LT	1	26TH ST.
	50+42	62' LT	1	27TH ST.
	58+53	61' LT	1	30TH ST.
	PROJECT TOTAL		**3**	

ABANDON SANITARY SEWER, 8-INCH, SLURRY FILL

CATEGORY	STATION TO STATION	(SPV.0090.20) LF	NOTES
0010	59+12 TO 59+28	25	LINCOLN AVE.
	59+28 TO 62+09	281	LINCOLN AVE.
	62+09 TO 65+67	359	LINCOLN AVE.
	65+67 TO 69+29	362	LINCOLN AVE.
	69+29 TO 71+53	225	LINCOLN AVE.
	PROJECT TOTAL	**1,252**	

SANITARY SEWER MANHOLE

CATEGORY	STATION	LOCATION	(SPV.0200.01) SANITARY MANHOLE 48-INCH VF	(SPV.0060.20) SANITARY MANHOLE CASTING EACH	(SPV.0060.24) CONSTRUCTION STAKING SANITARY SEWER EACH	NOTES
0010	35+45.0	C/L	5.13	1	1	SA 22.1
	36+02.0	65' LT	4.73	1	1	SA 23.1
	36+65.0	C/L	5.60	1	1	SA 23.2
	39+63.3	C/L	7.11	1	1	SA 24
	43+23.0	C/L	7.81	1	1	SA 25
	46+84.1	C/L	8.73	1	1	SA 26
	50+41.8	C/L	8.73	1	1	SA 27
	53+77.8	C/L	9.38	1	1	SA 28
	53+77.8	55' RT	9.30	1	1	SA 28.1
	57+12.1	C/L	9.21	1	1	SA 29
	58+53.7	C/L	8.35	1	1	SA 30
	62+08.2	C/L	9.93	1	1	SA 31
	65+66.8	C/L	12.20	1	1	SA 32
	69+28.5	C/L	14.15	1	1	SA 33
	72+29.1	C/L	14.10	1	1	SA 34
	72+29.1	34' RT	10.86	1	1	SA 34.1
	75+30.7	C/L	15.66	1	1	SA 35
	78+89.1	C/L	16.65	1	1	SA 35.1
	79+61.2	36' RT	13.78	1	1	SA 35.2
	PROJECT TOTALS		**191.41**	**19**	**19**	

SANITARY SEWER,

CATEGORY	STATION TO STATION	LOCATION	(SPV.0090.17) 8-INCH LF	(SPV.0090.18) 10-INCH LF	(SPV.0090.19) 15-INCH LF	NOTES
0010	33+14 TO 35+45	C/L	242	-	-	EXIST TO SA 22.1
	36+65 TO 39+64	C/L	298	-	-	SA 23.2 TO SA 24
	39+64 TO 43+23	C/L	-	360	-	SA 24 TO SA 25
	43+23 TO 46+84	C/L	-	-	361	SA 25 TOSA 26
	46+84 TO 50+42	C/L	-	-	360	SA 26 TO SA 27
	50+42 TO 53+78	C/L	-	-	336	SA 27 TO SA 28
	53+78 TO 57+12	C/L	-	-	335	SA 28 TO SA 29
	57+12 TO 58+53	C/L	-	-	142	SA 29 TO SA 30
	58+53 TO 62+09	C/L	-	-	355	SA 30 TO SA 31
	62+09 TO 65+67	C/L	-	-	359	SA 31 TO SA 32
	65+67 TO 69+29	C/L	-	-	362	SA 32 TO SA 33
	69+29 TO 72+29	C/L	-	-	300	SA 33 TO SA 34
	72+29 TO 75+31	C/L	-	-	302	SA 34 TO SA 35
	75+31 TO 78+89	C/L	-	-	359	SA 35 TO SA 35.1
	78+89 TO 79+61.2	C/L	-	-	72	SA 35.1 TO SA 35.2
	36+02	INTERSECTION	113	-	-	23RD ST.
	39+64	INTERSECTION	57	-	-	24TH ST.
	43+23	INTERSECTION	-	-	65	25TH ST.
	46+84	INTERSECTION	53	-	-	26TH ST.
	50+42	INTERSECTION	63	-	-	27TH ST.
	53+78	INTERSECTION	55	-	-	28TH ST.
	57+12	INTERSECTION	58	-	-	29TH ST.
	72+29	INTERSECTION	34	-	-	34TH ST.
	78+89	INTERSECTION	55	-	-	35TH PL.
	PROJECT TOTALS		**1,028**	**360**	**3,708**	

SANITARY LATERAL, 6-INCH

CATEGORY	STATION	LOCATION	(SPV.0090.16) LF	NOTES
0010	35+42	LT	35	8" X 6" WYE
	36+70	LT	41	8" X 6" WYE
	36+72	RT	35	8" X 6" WYE
	37+01	LT	35	8" X 6" WYE
	37+04	RT	35	8" X 6" WYE
	37+52	LT	35	8" X 6" WYE
	37+54	RT	35	8" X 6" WYE
	38+02	LT	35	8" X 6" WYE
	38+04	RT	35	8" X 6" WYE
	38+52	LT	35	8" X 6" WYE
	38+55	RT	35	8" X 6" WYE
	39+02	LT	35	8" X 6" WYE
	39+04	RT	35	8" X 6" WYE
	40+29	LT	35	10" X 6" WYE
	40+32	RT	35	10" X 6" WYE
	40+65	LT	35	10" X 6" WYE
	40+69	RT	35	10" X 6" WYE
	41+15	LT	35	10" X 6" WYE
	41+18	RT	35	10" X 6" WYE
	41+65	LT	35	10" X 6" WYE
	41+70	RT	35	10" X 6" WYE
	42+13	LT	35	10" X 6" WYE
	42+15	RT	35	10" X 6" WYE
	42+70	LT	35	10" X 6" WYE
	42+72	RT	35	10" X 6" WYE
	43+77	LT	35	15" X 6" WYE
	43+78	RT	35	15" X 6" WYE
	44+31	RT	35	15" X 6" WYE
	44+33	LT	35	15" X 6" WYE
	44+77	LT	35	15" X 6" WYE
	44+80	RT	35	15" X 6" WYE
	45+18	LT	35	15" X 6" WYE
	45+20	RT	35	15" X 6" WYE
	45+76	LT	35	15" X 6" WYE
	45+78	RT	35	15" X 6" WYE
	46+00	LT	35	15" X 6" WYE
	46+02	RT	35	15" X 6" WYE
	47+38	LT	35	15" X 6" WYE
	47+40	RT	35	15" X 6" WYE
	47+86	LT	35	15" X 6" WYE
	47+89	RT	35	15" X 6" WYE
	48+39	LT	35	15" X 6" WYE
	48+41	RT	35	15" X 6" WYE
	48+88	LT	35	15" X 6" WYE
	48+90	RT	35	15" X 6" WYE
	49+38	LT	35	15" X 6" WYE
	49+40	RT	35	15" X 6" WYE
	49+87	LT	35	15" X 6" WYE
	49+90	RT	35	15" X 6" WYE
	50+95	LT	35	15" X 6" WYE
	50+98	RT	35	15" X 6" WYE
	51+40	LT	35	15" X 6" WYE
	51+43	RT	35	15" X 6" WYE
	51+90	LT	35	15" X 6" WYE
	51+93	RT	35	15" X 6" WYE
	52+42	LT	35	15" X 6" WYE
	52+45	RT	35	15" X 6" WYE
	52+91	LT	35	15" X 6" WYE
	52+93	RT	35	15" X 6" WYE
	53+40	LT	35	15" X 6" WYE

CONTINUED

SANITARY LATERAL, 6-INCH CONTINUED

CATEGORY	STATION	LOCATION	(SPV.0090.16) LF	NOTES
0010	53+42	RT	35	15" X 6" WYE
	54+30	LT	35	15" X 6" WYE
	54+33	RT	35	15" X 6" WYE
	54+75	LT	35	15" X 6" WYE
	54+78	RT	35	15" X 6" WYE
	55+26	LT	35	15" X 6" WYE
	55+29	RT	35	15" X 6" WYE
	55+77	LT	35	15" X 6" WYE
	55+80	RT	35	15" X 6" WYE
	56+25	LT	35	15" X 6" WYE
	56+27	RT	35	15" X 6" WYE
	56+75	LT	35	15" X 6" WYE
	56+78	RT	35	15" X 6" WYE
	57+67	LT	35	15" X 6" WYE
	57+70	RT	35	15" X 6" WYE
	58+12	LT	35	15" X 6" WYE
	58+15	RT	35	15" X 6" WYE
	59+12	RT	35	15" X 6" WYE
	60+39	LT	35	15" X 6" WYE
	63+72	LT	35	15" X 6" WYE
	64+45	RT	50	15" X 6" WYE
	65+77	RT	50	15" X 6" WYE
	66+66	LT	35	15" X 6" WYE
	68+96	RT	50	15" X 6" WYE
	73+09	RT	50	15" X 6" WYE
	75+60	RT	50	15" X 6" WYE
	76+00	LT	60	15" X 6" WYE
	77+80	RT	72	15" X 6" WYE
	79+40	RT	35	15" X 6" WYE
	PROJECT TOTAL		**3,258**	

BACKFILL SANITARY AND WATER UTILITY

CATEGORY	LOCATION	(SPV.0035.01) CY	NOTES
0010	LINCOLN AVE.	7,500	UNDISTRIBUTED
	PROJECT TOTAL	**7,500**	

3

REMOVE VALVE AND PIT

CATEGORY	STATION	LOCATION	(SPV.0060.09) EACH	NOTES	MH OR VALVE BOX
0010	36+14	35' LT	1	23RD ST.	MH
	36+15	35' RT	1	23RD ST.	MH
	36+36	11' RT	1	LINCOLN AVE. / 23RD ST.	MH
	39+73	38' LT	1	24TH ST.	MH
	39+73	37'RT	1	24TH ST.	MH
	39+95	11' RT	1	LINCOLN AVE. / 24TH ST.	MH
	43+33	33' LT	1	25TH ST.	MH
	43+36	34' RT	1	25TH ST.	MH
	43+76	11' RT	1	LINCOLN AVE. / 25TH ST.	MH
	46+95	32' LT	1	26TH ST.	MH
	46+95	35' RT	1	26TH ST.	MH
	47+14	11' RT	1	LINCOLN AVE. / 26TH ST.	MH
	50+58	36' LT	1	27TH ST.	MH
	50+57	37' RT	1	27TH ST.	MH
	50+75	9' RT	1	LINCOLN AVE. / 27TH ST.	MH
	53+92	35' LT	1	28TH ST.	MH
	54+09	10' RT	1	LINCOLN AVE. / 28TH ST.	MH
	54+10	21' RT	1	28TH ST.	MH
	57+25	36' RT	1	29TH ST.	MH
	58+59	38' LT	1	30TH ST.	MH
	58+79	10' RT	1	LINCOLN AVE. / 30TH ST.	MH
	58+79	13' LT	1	LINCOLN AVE. / 30TH ST.	MH
	61+75	13' LT	1	LINCOLN AVE. / 31ST ST.	MH
	62+16	40' LT	1	31ST ST.	MH
	65+35	11' LT	1	LINCOLN AVE. / 32ND ST.	VALVE BOX
	68+97	12; LT	1	LINCOLN AVE. / 33RD ST.	VALVE BOX
	69+39	45' LT	1	33RD ST.	MH
	72+02	9' LT	1	LINCOLN AVE. / 34TH ST.	VALVE BOX
	72+38	47' LT	1	34TH ST.	MH
	72+39	49' RT	1	34TH ST.	MH
	75+04	24' RT	1	LINCOLN AVE. / 35TH ST.	MH
	78+61	26' RT	1	LINCOLN AVE. / 35TH PL.	MH
	78+98	60' LT	1	35TH PL.	MH
	PROJECT TOTAL		**33**		

REMOVE HYDRANT, LEAD, AND VALVE

CATEGORY	STATION	LOCATION	(SPV.0060.11) EACH	NOTES
0010	36+25	47' RT	1	23RD ST.
	39+40	35' RT	1	24TH ST.
	47+05	43' RT	1	26TH ST.
	50+60	45' RT	1	27TH ST.
	54+00	40' LT	1	28TH ST.
	57+32	35' LT	1	29TH ST.
	62+28	44' LT	1	31ST ST.
	69+50	38' LT	1	33RD ST.
	72+50	42' LT	1	34TH ST.
	75+62	42' RT	1	35TH ST.
	PROJECT TOTAL		**10**	

REMOVE EXISTING WATER MAIN

CATEGORY	STATION TO STATION	LOCATION	(SPV.0090.08) LF	NOTES
0010	33+25 TO 36+36	14' RT TO 10' RT	311	LINCOLN AVE.
	36+36 TO 40+54	10' RT TO 11' RT	418	LINCOLN AVE.
	40+54 TO 43+76	11' RT	322	LINCOLN AVE.
	43+76 TO 47+14	11' RT	338	LINCOLN AVE.
	47+14 TO 50+75	11' TO 9' RT	361	LINCOLN AVE.
	50+75 TO 54+09	9' TO 10' RT	334	LINCOLN AVE.
	54+09 TO 58+79	10' RT	470	LINCOLN AVE.
	58+79 TO 61+75	13' LT	296	LINCOLN AVE.
	61+75 TO 65+35	13' LT TO 11' LT	360	LINCOLN AVE.
	65+35 TO 68+97	11' LT TO 12' LT	362	LINCOLN AVE.
	68+97 TO 72+39	12' LT TO 9' LT	342	LINCOLN AVE.
	72+39 TO 75+04	22' RT TO 25' RT	265	LINCOLN AVE.
	75+04 TO 78+61	25' RT	371	LINCOLN AVE.
	36+13	53' LT TO 53' RT	106	23RD ST.
	39+72	52' LT TO 61' RT	113	24TH ST.
	43+35	65' LT TO 30' RT	95	25TH ST.
	46+95	51' LT TO 59' RT	110	26TH ST.
	50+53	50' LT TP 63' RT	113	27TH ST.
	53+88	33' LT TO 60' RT	93	28TH ST.
	57+25	30' LT TO 55' RT	85	29TH ST.
	58+63	56' LT TO 20' RT	76	30TH ST.
	62+21	53' LT TO 20' RT	73	31ST ST.
	69+43	55' LT TO 22' RT	77	33RD ST.
	72+43	61' LT TO 54' RT	115	34TH ST.
	79+02	56' LT TO 25' RT	79	35TH PL.
	PROJECT TOTAL		**5,685**	

LOW PERMEABILITY TRENCH PLUG

CATEGORY	STATION	LOCATION	(SPV.0035.02) CY	NOTES
0010	33+25	16' RT	8	WATERMAIN TRENCH
	33+25	C/L	5.5	SANITARY SEWER TRENCH
	34+75	16' RT	9	WATERMAIN TRENCH
	34+75	C/L	4.5	SANITARY SEWER TRENCH
	PROJECT TOTAL		**27**	

3

VALVE AND BOX,

CATEGORY	STATION	LOCATION	(SPV.0060.14) 6-INCH EACH	(SPV.0060.15) 8-INCH EACH	(SPV.0060.16) 12-INCH EACH	NOTES
0010	35+40	16' RT	1	-	-	LINCOLN AVE.
	36+13	40' LT	-	1	-	23RD ST.
	36+13	40' RT	-	1	-	23RD ST.
	36+19	16' RT	-	-	1	LINCOLN AVE.
	39+22	20' RT	1	-	-	LINCOLN AVE.
	39+72	45' LT	-	-	1	24TH ST.
	39+72	54' RT	-	-	1	24TH ST.
	39+80	20' RT	-	-	1	LINCOLN AVE.
	43+40	42' LT	-	1	-	25TH ST.
	43+44	20' RT	-	-	1	LINCOLN AVE.
	46+42	20' RT	1	-	-	LINCOLN AVE.
	46+95	43' LT	-	1	-	26TH ST.
	46+95	50' RT	-	1	-	26TH ST.
	47+00	20' RT	-	-	1	LINCOLN AVE.
	50+00	20' RT	1	-	-	LINCOLN AVE.
	50+53	42' LT	-	1	-	27TH ST.
	50+53	53' RT	-	1	-	27TH ST.
	50+88	23' RT	-	-	1	LINCOLN AVE.
	53+38	20' RT	1	-	-	LINCOLN AVE.
	53+88	25' LT	-	1	-	28TH ST.
	53+88	53' RT	-	1	-	28TH ST.
	53+92	21' RT	-	-	1	LINCOLN AVE.
	56+72	20' RT	1	-	-	LINCOLN AVE.
	57+25	53' RT	-	1	-	29TH ST.
	57+38	20' RT	-	-	1	LINCOLN AVE.
	57+65	20' RT	1	-	-	LINCOLN AVE.
	58+63	47' LT	-	1	-	30TH ST.
	62+21	45' LT	-	1	-	31ST ST.
	62+33	20' RT	1	-	-	LINCOLN AVE.
	62+36	20' RT	-	-	1	LINCOLN AVE.
	65+05	20' RT	1	-	-	LINCOLN AVE.
	66+11	20' RT	-	-	1	LINCOLN AVE.
	68+90	21' RT	1	-	-	LINCOLN AVE.
	69+43	47' LT	-	1	-	33RD ST.
	69+57	21' RT	-	-	1	LINCOLN AVE.
	71+75	21' RT	1	-	-	LINCOLN AVE.
	72+43	53' LT	-	1	-	34TH ST.
	72+43	47' RT	-	1	-	34TH ST.
	72+47	21' RT	-	-	1	LINCOLN AVE.
	75+52	21' RT	-	-	1	LINCOLN AVE.
	79+36	22' RT	-	-	1	LINCOLN AVE.
PROJECT TOTALS			**11**	**15**	**15**	

WATER MAIN

CATEGORY	STATION TO STATION	LOCATION	(SPV.0090.10) WATER MAIN, 4-INCH LF	(SPV.0090.11) WATER MAIN, 6-INCH LF	(SPV.0090.12) WATER MAIN, 8-INCH LF	(SPV.0090.13) WATER MAIN, 12-INCH LF	(SPV.0090.22) WATER MAIN, DI, 12-INCH LF	(SPV.0090.21) CONSTRUCTION STAKING WATER MAIN LF	NOTES
0010	33+26 TO 34+75	16' RT	-	-	-	-	149	149	LINCOLN AVE.
	34+75 TO 36+13	16' RT	-	-	-	138	-	138	LINCOLN AVE.
	36+13 TO 39+72	16' TO 20' RT	-	-	-	359	-	359	LINCOLN AVE.
	39+72 TO 43+35	20' RT	-	-	-	363	-	363	LINCOLN AVE.
	43+35 TO 46+95	20' RT	-	-	-	360	-	360	LINCOLN AVE.
	46+95 TO 50+53	20' RT	-	-	-	358	-	358	LINCOLN AVE.
	50+53 TO 53+88	20' RT	-	-	-	335	-	335	LINCOLN AVE.
	53+88 TO 57+25	20' RT	-	-	-	337	-	337	LINCOLN AVE.
	57+25 TO 58+63	20' RT	-	-	-	138	-	138	LINCOLN AVE.
	58+63 TO 62+33	20' RT	-	-	-	370	-	370	LINCOLN AVE.
	62+33 TO 69+43	20' RT	-	-	-	710	-	710	LINCOLN AVE.
	69+43 TO 72+43	20' RT	-	-	-	300	-	300	LINCOLN AVE.
	72+43 TO 75+42	21' RT	-	-	-	299	-	299	LINCOLN AVE.
	75+42 TO 79+50	21' RT	-	-	-	408	-	408	LINCOLN AVE.
	36+13	58' LT TO 53' RT	18	13	80	-	-	111	23RD ST.
	39+72	52' LT TO 61' RT	-	-	-	113	-	113	24TH ST.
	43+35	65' LT TO 30' RT	-	33	62	-	-	95	25TH ST.
	46+95	51' LT TO 59' RT	-	-	63	-	-	63	26TH ST.
	50+53	50' LT TP 60' RT	-	17	93	-	-	110	27TH ST.
	53+88	33' LT TO 60' RT	-	15	78	-	-	93	28TH ST.
	57+25	20' RT TO 60' RT	-	7	33	-	-	40	29TH ST.
	58+63	56' LT TO 20' RT	-	9	67	-	-	76	30TH ST.
	62+21	53' LT TO 20' RT	-	8	65	-	-	73	31ST ST.
	69+43	55' LT TO 22' RT	-	9	68	-	-	77	33RD ST.
	72+43	61' LT TO 54' RT	-	15	100	-	-	115	34TH ST.
	75+42	69' LT TO 21' RT	-	-	90	-	-	90	35TH ST.
	79+02	56' LT TO 22' RT	-	-	78	-	-	78	35TH PL.
PROJECT TOTALS			**18**	**126**	**877**	**4,588**	**149**	**5,758**	

WATER VALVE MANHOLE

CATEGORY	STATION	LOCATION	(SPV.0060.23) WATER VALVE MANHOLE 60-INCH EACH	(SPV.0060.21) WATER VALVE MANHOLE CASTING EACH	NOTES
0010	61+55	RT	1	1	LINCOLN AVE.
PROJECT TOTALS			**1**	**1**	

HYDRANT AND HYDRANT LEAD

CATEGORY	STATION	LOCATION	(SPV.0060.17) HYDRANT EACH	(SPV.0090.09) HYDRANT LEAD, 6-INCH LF	REMARKS
0010	35+40	25' RT	1	10	23RD ST.
	39+22	27' RT	1	6	24TH ST.
	46+42	25' RT	1	6	26TH ST.
	50+00	27' RT	1	6	27TH ST.
	53+38	27' RT	1	6	28TH ST.
	56+72	27' RT	1	6	29TH ST.
	62+33	27' RT	1	6	31ST ST.
	65+05	27' RT	1	6	LINCOLN AVE.
	68+90	27' RT	1	6	33RD ST.
	71+75	27' RT	1	6	34TH ST.
	75+65	27' RT	1	6	LINCOLN AVE.
PROJECT TOTALS			**11**	**70**	

WATER SERVICES

CATEGORY	STATION	LOCATION	(SPV.0060.18) TAP AND CORPORATION, 1-INCH EACH	(SPV.0060.12) CURB STOP VALVE AND BOX, 1-INCH EACH	(SPV.0090.14) WATER SERVICE, 1-INCH LF	(SPV.0060.19) TAP AND CORPORATION, 2-INCH EACH	(SPV.0060.13) CURB STOP VALVE AND BOX, 2-INCH EACH	(SPV.0090.15) WATER SERVICE, 2-INCH LF	(SPV.0165.02)* INSULATION 2-INCH SF
0010	35+52	LT	-	-	-	1	1	52	-
	35+59	LT	1	1	52	-	-	-	32
	36+58	LT	1	1	56	-	-	-	32
	36+68	RT	1	1	15	-	-	-	-
	37+09	RT	1	1	15	-	-	-	-
	37+11	LT	1	1	56	-	-	-	32
	37+57	LT	1	1	53	-	-	-	-
	37+65	RT	1	1	17	-	-	-	-
	38+06	LT	1	1	52	-	-	-	-
	38+08	RT	1	1	17	-	-	-	-
	38+59	LT	1	1	56	-	-	-	-
	38+60	RT	1	1	15	-	-	-	-
	39+08	LT	1	1	56	-	-	-	-
	39+15	RT	1	1	15	-	-	-	-
	40+25	LT	1	1	52	-	-	-	32
	40+30	RT	1	1	15	-	-	-	-
	40+61	LT	1	1	55	-	-	-	32
	40+69	RT	1	1	15	-	-	-	-
	41+08	LT	1	1	56	-	-	-	32
	41+13	RT	1	1	15	-	-	-	-
	41+63	LT	1	1	56	-	-	-	32
	41+66	RT	1	1	15	-	-	-	-
	42+06	LT	1	1	56	-	-	-	32
	42+14	RT	1	1	15	-	-	-	-
	42+48	LT	1	1	56	-	-	-	32
	42+60	RT	1	1	15	-	-	-	-
	43+80	LT	1	1	56	-	-	-	32
	43+88	RT	1	1	15	-	-	-	-
	44+32	LT	1	1	56	-	-	-	32
	44+34	RT	1	1	15	-	-	-	-
	44+72	LT	1	1	56	-	-	-	32
	44+92	RT	1	1	15	-	-	-	-
	45+19	LT	1	1	50	-	-	-	32
	45+19	RT	1	1	15	-	-	-	-
	45+79	RT	1	1	15	-	-	-	-
	45+86	LT	1	1	56	-	-	-	32
	46+08	RT	1	1	15	-	-	-	-
	47+44	RT	1	1	15	-	-	-	-
	47+50	LT	1	1	56	-	-	-	32
	47+85	LT	1	1	56	-	-	-	32
	47+90	RT	1	1	15	-	-	-	-
	48+38	RT	1	1	15	-	-	-	-
	48+41	LT	1	1	56	-	-	-	32
	48+90	LT	1	1	56	-	-	-	32
	48+93	RT	1	1	15	-	-	-	-
	49+41	RT	1	1	15	-	-	-	-
	49+47	LT	1	1	56	-	-	-	32
	49+91	LT	1	1	56	-	-	-	32
	49+95	RT	1	1	15	-	-	-	-
	50+99	LT	1	1	59	-	-	-	32
	51+06	RT	1	1	12	-	-	-	-
	51+45	LT	1	1	56	-	-	-	32
	51+52	RT	1	1	15	-	-	-	-
	51+94	LT	1	1	56	-	-	-	32
	51+97	RT	1	1	15	-	-	-	-

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

CONTINUTED ON NEXT PAGE

WATER SERVICES CONTINUED

CATEGORY	STATION	LOCATION	(SPV.0060.18) TAP AND CORPORATION, 1-INCH EACH	(SPV.0060.12) CURB STOP VALVE AND BOX, 1-INCH EACH	(SPV.0090.14) WATER SERVICE, 1-INCH LF	(SPV.0060.19) TAP AND CORPORATION, 2-INCH EACH	(SPV.0060.13) CURB STOP VALVE AND BOX, 2-INCH EACH	(SPV.0090.15) WATER SERVICE, 2-INCH LF	* (SPV.0165.02) INSULATION 2-INCH SF
0010	52+44	LT	1	1	56	-	-	-	32
	52+46	RT	1	1	15	-	-	-	-
	52+96	RT	1	1	15	-	-	-	-
	53+00	LT	1	1	56	-	-	-	32
	53+43	LT	1	1	56	-	-	-	32
	53+50	RT	1	1	27	-	-	-	-
	54+37	LT	1	1	59	-	-	-	32
	54+40	RT	1	1	12	-	-	-	-
	54+79	LT	1	1	56	-	-	-	32
	54+87	RT	1	1	15	-	-	-	-
	55+30	LT	1	1	56	-	-	-	32
	55+31	RT	1	1	15	-	-	-	-
	55+81	LT	1	1	56	-	-	-	32
	55+84	RT	1	1	15	-	-	-	-
	56+33	LT	1	1	56	-	-	-	32
	56+37	RT	1	1	15	-	-	-	-
	56+78	RT	1	1	15	-	-	-	-
	56+85	LT	1	1	56	-	-	-	32
	57+72	RT	1	1	15	-	-	-	-
	57+78	LT	1	1	56	-	-	-	32
	58+25	RT	1	1	15	-	-	-	-
	59+20	RT	-	-	-	1	1	15	-
	60+28	LT	1	1	56	-	-	-	32
	63+76	LT	1	1	56	-	-	-	32
	64+50	RT	1	1	32	-	-	-	-
	65+82	RT	1	1	32	-	-	-	-
	66+77	LT	1	1	56	-	-	-	32
	69+03	RT	1	1	32	-	-	-	-
	73+10	RT	1	1	32	-	-	-	-
	75+62	RT	1	1	32	-	-	-	-
	75+95	LT	1	1	83	-	-	-	32
	77+85	RT	1	1	52	-	-	-	-
PROJECT TOTALS			**85**	**85**	**3,099**	**2**	**2**	**67**	**1,184**

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

INSULATION

CATEGORY	STATION	LOCATION	* (SPV.0165.02) INSULATION 2-INCH SF
0010	37+54	RT	32
	40+05	RT	32
	42+53	RT	32
	43+84	RT	32
	45+15	RT	32
	47+25	RT	32
	48+70	RT	32
	50+85	RT	32
	52+34	RT	32
	54+22	RT	32
	54+33	RT	32
	56+14	RT	32
	57+59	RT	32
	58+96	RT	32
	59+64	RT	32
	62+50	RT	32
	62+60	RT	32
	64+20	RT	32
	65+50	RT	32
	66+38	RT	32
	67+10	RT	32
	67+47	RT	32
	67+57	RT	32
	69+43	LT	32
	69+70	RT	32
	69+79	RT	32
	71+43	RT	32
	72+43	LT	32
	72+77	RT	32
	72+87	RT	32
	75+75	RT	32
	76+97	RT	32
	79+80	RT	32
PROJECT TOTALS			**1,056**

*ADDITIONAL QUANTITIES FOUND ELSEWHERE

WATER MAIN FITTINGS

(SPV.0085.01)

			8-INCH X 4-INCH REDUCER		8-INCH X 6-INCH REDUCER		12-INCH X 8-INCH REDUCER		12-INCH X 6-INCH TEE		12-INCH X 8-INCH TEE		12-INCH X 8-INCH CROSS		12-INCH X 12-INCH CROSS		12-INCH 22.5-DEGREE BEND		4-INCH 45-DEGREE BEND		6-INCH 45-DEGREE BEND		8-INCH 45-DEGREE BEND		12-INCH 45-DEGREE BEND		8-INCH PLUG		
	Weight per Fitting		(36)	Lbs	(39)	Lbs	(57)	Lbs	(119)	Lbs	(126)	Lbs	(149)	Lbs	(214)	Lbs	(87)	Lbs	(22)	Lbs	(39)	Lbs	(56)	Lbs	(102)	Lbs	(25)	Lbs	
CATEGORY	STATION	LOCATION	No.	(LBS)	No.	(LBS)	No.	(LBS)	No.	(LBS)	No.	(LBS)	No.	(LBS)	No.	(LBS)	No.	(LBS)	No.	(LBS)	No.	(LBS)	No.	(LBS)	No.	(LBS)	No.	(LBS)	NOTES
0010	33+26	16' RT	-	-	-	-	1	(57)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LINCOLN AVE.
	35+40	16' RT	-	-	-	-	-	-	1	(119)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LINCOLN AVE.
	36+13	40' LT	1	(36)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	(44)	-	-	-	-	-	-	-	-	23RD ST.
	36+13	16' RT	-	-	-	-	-	-	-	-	-	-	1	(149)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23RD ST.
	36+13	40' RT	-	-	1	(39)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	(78)	-	-	-	-	-	-	23RD ST.
	36+25	16' RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	(102)	-	-	LINCOLN AVE.
	36+30	21' RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	(102)	-	-	LINCOLN AVE.
	39+22	20' RT	-	-	-	-	-	-	1	(119)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LINCOLN AVE.
	39+72	45' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	(204)	-	-	24TH ST.
	39+72	20' RT	-	-	-	-	-	-	-	-	-	-	-	-	1	(214)	-	-	-	-	-	-	-	-	-	-	-	-	24TH ST.
	39+72	54' RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	(204)	-	-	24TH ST.
	39+85	20' RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	(87)	-	-	-	-	-	-	-	-	-	-	LINCOLN AVE.
	39+95	16' RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	(87)	-	-	-	-	-	-	-	-	-	-	LINCOLN AVE.
	43+40	42' LT	-	-	1	(39)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	(78)	-	-	-	-	-	-	25TH ST.
	43+40	20' RT	-	-	-	-	-	-	-	-	-	-	1	(149)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25TH ST.
	43+40	30' RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	(112)	-	-	-	-	25TH ST.
	46+42	20' RT	-	-	-	-	-	-	1	(119)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LINCOLN AVE.
	46+95	43' LT	-	-	1	(39)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	(78)	-	-	-	-	-	-	26TH ST.
	46+95	20' RT	-	-	-	-	-	-	-	-	-	-	1	(149)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26TH ST.
	46+95	50' RT	-	-	1	(39)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	(78)	-	-	-	-	-	-	26TH ST.
	50+00	20' RT	-	-	-	-	-	-	1	(119)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LINCOLN AVE.
	50+53	42' LT	-	-	1	(39)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	(78)	-	-	-	-	-	-	27TH ST.
	50+53	20' RT	-	-	-	-	-	-	-	-	-	-	1	(149)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27TH ST.
	50+53	53' RT	-	-	1	(39)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	(78)	-	-	-	-	-	-	27TH ST.
	53+38	20' RT	-	-	-	-	-	-	1	(119)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LINCOLN AVE.
	53+88	25' LT	-	-	1	(39)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	(78)	2	(112)	-	-	-	-	28TH ST.
	53+88	20' RT	-	-	-	-	-	-	-	-	-	-	1	(149)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28TH ST.
	53+88	53' RT	-	-	1	(39)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	(78)	-	-	-	-	-	-	28TH ST.
	56+72	20' RT	-	-	-	-	-	-	1	(119)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LINCOLN AVE.
	57+25	20' RT	-	-	-	-	-	-	-	-	1	(126)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29TH ST.
	57+25	53' RT	-	-	1	(39)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	(78)	-	-	-	-	-	-	29TH ST.
	57+65	20' RT	-	-	-	-	-	-	1	(119)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LINCOLN AVE.
	58+63	47' LT	-	-	1	(39)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	(78)	-	-	-	-	-	-	30TH ST.
	58+63	20' RT	-	-	-	-	-	-	-	-	1	(126)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30TH ST.
	62+21	45' LT	-	-	1	(39)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	(78)	-	-	-	-	-	-	31ST ST.
	62+21	20' RT	-	-	-	-	-	-	-	-	1	(126)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31ST ST.
	62+33	20' RT	-	-	-	-	-	-	1	(119)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LINCOLN AVE.
	65+05	20' RT	-	-	-	-	-	-	1	(119)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LINCOLN AVE.
	68+90	21' RT	-	-	-	-	-	-	1	(119)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LINCOLN AVE.
	69+43	47' LT	-	-	1	(39)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	(78)	-	-	-	-	-	-	33RD ST.
	69+43	21' RT	-	-	-	-	-	-	-	-	1	(126)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33RD ST.
	71+75	21' RT	-	-	-	-	-	-	1	(119)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LINCOLN AVE.
	72+43	53' LT	-	-	1	(39)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	(78)	-	-	-	-	-	-	34TH ST.
	72+43	21' RT	-	-	-	-	-	-	-	-	-	-	1	(149)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34TH ST.
	72+43	47' RT	-	-	1	(39)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	(78)	-	-	-	-	-	-	34TH ST.
	75+42	64' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	(25)	35TH ST.
	75+42	21' RT	-	-	-	-	-	-	-	-	1	(126)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35TH ST.
	79+02	56' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	(112)	-	-	-	-	35TH PL.
	79+02	22' RT	-	-	-	-	-	-	-	-	1	(126)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35TH PL.
	79+46	22' RT	-	-	-	-	1	(57)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	(112)	-	-	-	-	LINCOLN AVE.
SUBTOTALS			**1**	**(36)**	**14**	**(546)**	**2**	**(114)**	**11**	**(1,309)**	**6**	**(756)**	**6**	**(894)**	**1**	**(214)**	**2**	**(174)**	**2**	**(44)**	**28**	**(1,092)**	**8**	**(448)**	**6**	**(612)**	**1**	**(25)**	
PROJECT TOTAL																													**6264 LBS**

1154272

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
1470-18-21
LINCOLN AVENUE, CITY OF TWO RIVERS
(22ND STREET - 35TH PLACE)
STH 42
MANITOWOC COUNTY



CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
FEE ACQUISITION AREA (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (HIGHWAY, PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
NATIONAL GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT

SECTION CORNER
NOTATION FOR COMBUSTABLE FLUIDS
NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES
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)
BRIDGE

R/W MONUMENT
NON-MONUMENTED R/W POINT
FOUND 1" IRON PIPE (UNLESS NOTED)
VALVE (GAS, WATER, ETC.)
SIGN
OFF-PREMISE SIGN

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE	■	□
TELEPHONE POLE	⌀	⌀
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)	⌀	⌀

PARCEL NUMBER (25)
UTILITY NUMBER (40)

CONVENTIONAL ABBREVIATIONS

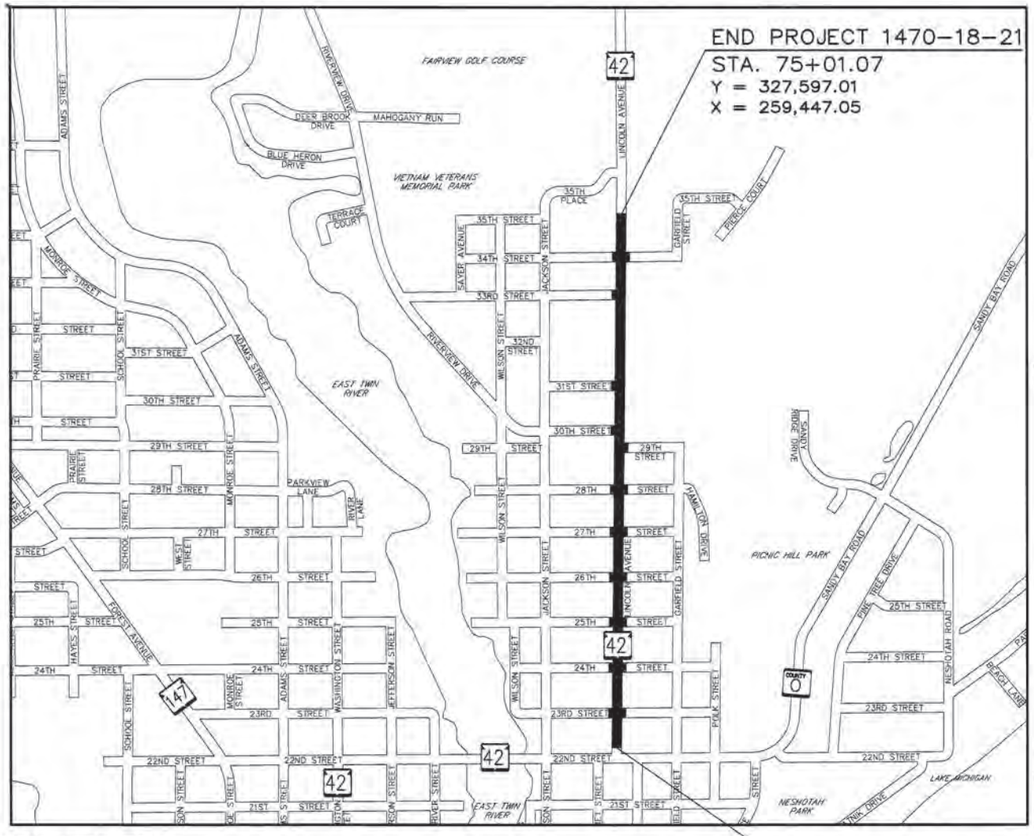
ACCESS RIGHTS	AR	POINT OF COMPOUND CURVE	PCC
ACRES	AC	POINT OF INTERSECTION	PI
AHEAD	AH	PROPERTY LINE	PL
ALUMINUM	ALUM	RECORDED AS	(100')
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RIGHT	RT
CENTERLINE	C/L	RIGHT OF WAY	R/W
CERTIFIED SURVEY MAP	CSM	SECTION	SEC
CONCRETE	CONC	SEPTIC VENT	SEPV
COUNTY	CO	SQUARE FEET	SF
COUNTY TRUNK HIGHWAY	CTH	STATE TRUNK HIGHWAY	STH
DISTANCE	DIST	STATION	STA
CORNER	COR	SUBDIVISION	SUBD
DOCUMENT NUMBER	DOC	TANGENT	TAN
EASEMENT	EASE	TELEPHONE PEDESTAL	TP
EXISTING	EX	TEMPORARY LIMITED EASEMENT	TLE
GAS VALVE	GV	TRANSPORTATION PROJECT PLAT	TPP
GRID NORTH	GN	UNITED STATES HIGHWAY	USH
HIGHWAY EASEMENT	HE	VOLUME	V
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		

CURVE DATA

LONG CHORD	LC
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	Δ
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 0.125 MI.

TOTAL NET LENGTH OF CENTERLINE 1470-18-71 = 0.791 MI.

THE NOTES, CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 1470-18-21

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, MANITOWOC COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES 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 NEW REFERENCE LINES.

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.

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 EASEMENT (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 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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY

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:

PREVIOUS PROJECT T01-4 (22)
RIVERSIDE ADDITION
LECLAIR'S ADDITION
PICNIC HILL 1ST PORTION
PICNIC HILL 2ND PORTION
CHAS SAYER'S SUBDIVISION NO.2 ADDITION
CHAS SAYER'S SUBDIVISION NO.3 ADDITION
CHAS SAYER'S SUBDIVISION NO.4 ADDITION
EAST POINT SUBDIVISION NO.1
CSM V.22, PG.287, DOCUMENT #927317
CSM V.9, PG.199, DOCUMENT #557123
CSM V.6, PG.253, DOCUMENT #502312
CSM V.8, PG.119, DOCUMENT #536161
CSM V.30, PG.119, DOCUMENT #1116364

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1470-18-21- 4. 01
SHEET 2 OF 2
AMENDMENT NO:

FILE NAME : P:\90S\93\00093170\CADD\C3D\RW\PLINE_93170.DWG
APPRAISAL PLAT DATE :
PLOT DATE : 12/14/2012 7:46 PM
PLOT BY : BRAD TISDALE
PLOT NAME :
1470-18-21 4.01

1154272

TRANSPORTATION PROJECT PLAT NO: 1470-18-21 - 4.01

THAT PART OF LOTS 1 AND 20 OF BLOCK 1 OF RIVERSIDE ADDITION, LOTS 1 AND 20 OF BLOCK 2 OF RIVERSIDE ADDITION, LOTS 1 AND 20 BLOCK 3 OF RIVERSIDE ADDITION, LOTS 1 AND 20 BLOCK 1 OF LECLAIR'S ADDITION ALL LOCATED IN THE SE 1/4 OF THE SE 1/4 AND THE NE 1/4 OF THE SE 1/4 OF SECTION 36, T20N, R24E CITY OF TWO RIVERS AND PART OF LOTS 7, 8 AND 9 OF BLOCK "A" OF PICNIC HILL ADDITION - 1ST PORTION, LOTS 7, 8, 9, 10, 11 AND 12 OF BLOCK "B" OF PICNIC HILL ADDITION - 1ST PORTION, LOTS 6, 7, 8, 9 AND 10 OF BLOCK "C" OF PICNIC HILL ADDITION - 2ND PORTION, LOTS 6, 7, 8, 9 AND 10 OF BLOCK "D" OF PICNIC HILL ADDITION - 2ND PORTION, TRACT 1 CSM V22, PG287 ALL LOCATED IN THE SW 1/4 OF THE SW 1/4 AND THE NW 1/4 OF THE SW 1/4 OF SECTION 31, T20N, R25E, CITY OF TWO RIVERS, MANITOWOC COUNTY, WISCONSIN.

RELOCATION ORDER STH 42 LINCOLN AVENUE, CITY OF TWO RIVERS, MANITOWOC COUNTY.

R/W POINT	STATION	OFFSET	Y	X
100	33+25.00	33.00 L	323,421.144	259,387.598
101	35+66.92	33.00 L	323,663.061	259,388.012
102	35+73.89	38.00 L	323,670.041	259,383.024
103	36+33.89	38.00 L	323,730.041	259383.127
104	36+39.92	33.00 L	323,736.061	259,388.137
105	39+27.72	33.00 L	324,023.859	259,388.629
106	39+33.68	38.00 L	324,029.836	259,383.639
107	39+93.69	38.00 L	324,089.837	259,383.742
108	39+98.72	33.00 L	324,094.861	259,388.750
109	42+87.52	33.00 L	324,383.660	259,389.244
110	42+93.49	38.00 L	324,389.644	259,384.255
111	43+53.49	38.00 L	324,449.644	259,384.357
112	43+59.49	33.00 L	324,455.637	259,389.367
113	46+47.32	33.00 L	324,743.465	259,389.860
114	46+53.29	38.00 L	324,749.444	259,384.870
115	46+54.04	38.00 R	324,750.058	259,460.871
116	46+47.01	33.00 R	324,743.038	259,455.859
117	43+79.01	33.00 R	324,475.039	259,455.401
118	43+74.04	38.00 R	324,470.059	259,460.392
119	42+74.04	39.00 R	324,370.063	259,461.221
120	42+66.01	33.00 R	324,362.039	259455.207
121	40+00.01	33.00 R	324,096.039	259,454.753
122	39+94.04	38.00 R	324,090.059	259,459.742
123	39+34.04	38.00 R	324,030.060	259,459.640
124	39+29.01	33.00 R	324,025.039	259,454.631
125	36+39.01	33.00 R	323,735.040	259,454.135
126	36+34.03	38.00 R	323,730.053	259,459.127
127	35+74.06	42.00 R	323,670.076	259,463.024
128	35+63.00	33.00 R	323,659.031	259,454.005
129	33+25.00	33.00 R	323,421.031	259,453.598

TLE POINT	STATION	OFFSET
T-500	33+25.00	38.00 L
T-501	34+20.00	38.00 L
T-502	34+20.00	33.00 L
T-503	34+23.22	33.00 L
T-504	34+23.22	33.75 L
T-505	35+59.38	33.75 L
T-506	35+73.85	44.13 L
T-507	36+33.68	74.69 L
T-508	36+38.68	74.72 L
T-509	36+38.88	40.36 L
T-510	36+41.72	38.00 L
T-511	36+93.50	38.00 L
T-512	36+93.50	43.00 L
T-513	37+09.50	43.00 L
T-514	37+09.50	38.00 L
T-515	39+25.90	38.00 L
T-516	39+33.64	44.49 L
T-517	39+93.64	45.10 L
T-518	40+00.78	38.00 L
T-519	42+85.70	38.00 L
T-520	42+91.47	42.83 L
T-521	42+91.37	63.00 L
T-522	42+93.37	63.00 L
T-523	43+53.41	54.54 L

TLE POINT	STATION	OFFSET
T-524	43+55.41	54.54 L
T-525	43+55.47	42.86 L
T-526	43+61.30	38.00 L
T-527	45+78.34	38.00 L
T-528	45+78.35	37.00 L
T-529	46+48.30	37.00 L
T-530	46+48.20	53.85 L
T-531	46+53.20	53.88 L
T-532	46+54.07	44.16 R
T-533	46+45.41	38.00 R
T-534	46+09.40	38.00 R
T-535	46+09.40	43.00 R
T-536	45+81.40	43.00 R
T-537	45+81.40	38.00 R
T-538	45+42.04	38.00 R
T-539	45+42.07	43.00 R
T-540	45+28.50	43.00 R
T-541	45+28.50	38.00 R
T-542	43+81.09	38.00 R
T-543	43+79.05	40.05 R
T-544	43+79.14	55.02 R
T-545	43+74.14	55.05 R
T-546	42+74.14	55.26 R
T-547	42+69.14	55.30 R

TLE POINT	STATION	OFFSET
T-548	42+69.06	41.52 R
T-549	42+64.35	38.00 R
T-550	42+18.04	38.00 R
T-551	42+18.06	43.00 R
T-552	42+03.01	43.00 R
T-553	42+03.01	38.00 R
T-554	41+61.40	38.00 R
T-555	41+61.40	43.00 R
T-556	41+47.40	43.00 R
T-557	41+47.40	38.00 R
T-558	40+01.83	38.00 R
T-559	39+94.07	44.48 R
T-560	39+34.08	45.10 R
T-561	39+26.94	38.00 R
T-562	38+47.88	38.00 R
T-563	38+47.88	43.00 R
T-564	38+31.88	43.00 R
T-565	38+31.88	38.00 R
T-566	36+40.04	38.00 R
T-567	36+40.19	65.00 R
T-568	36+34.19	65.04 R
T-569	35+74.10	48.48 R
T-570	35+61.23	38.00 R
T-571	33+25.00	38.00 R

REGISTERS OFFICE
MANITOWOC COUNTY, WI } SS
RECEIVED FOR RECORD
APRIL 8, 2015 @ 8:42 AM
Cabinet D Plats Jacket 68
PRESTON F. JONES, REGISTER

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1470-18-21
SHEET NO: 1 OF 2

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF TWO RIVERS DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22 WISCONSIN STATUTES, THE CITY OF TWO RIVERS 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 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 TWO RIVERS, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

COURSE	BEARING	DISTANCE	COURSE	BEARING	DISTANCE
101-102	N35°33'01"W	8.58'	115-116	S35°31'29"W	8.63'
102-103	N00°05'53"E	60.00'	117-118	S45°03'58"E	7.05'
103-104	N39°46'09"E	7.83'	118-119	S00°28'30"E	100.00'
105-106	N39°51'34"W	7.79'	119-120	S36°50'59"W	10.03'
106-107	N00°05'53"E	60.00'	121-122	S39°50'31"E	7.79'
107-108	N44°54'45"E	7.09'	122-123	S00°05'53"W	60.00'
109-110	N39°49'28"W	7.79'	123-124	S44°56'03"W	7.09'
110-111	N00°05'53"E	60.00'	125-126	S45°01'27"E	7.06'
111-112	N39°53'56"E	7.81'	126-127	S03°43'04"E	60.10'
113-114	N39°50'31"W	7.79'	127-128	S39°13'59"W	14.26'
114-115	S89°32'14"W	76.00'	129-100	N89°54'07"W	66.00'

ALIGNMENT INFORMATION

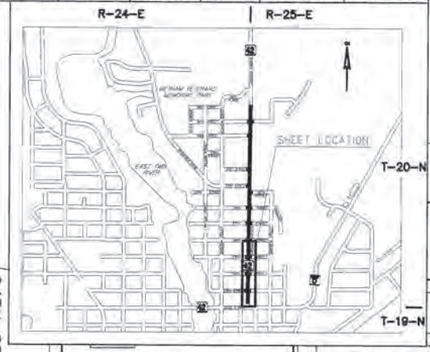
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Y = 323,340.158
X = 259,420.460

DA = N00°05'53"E

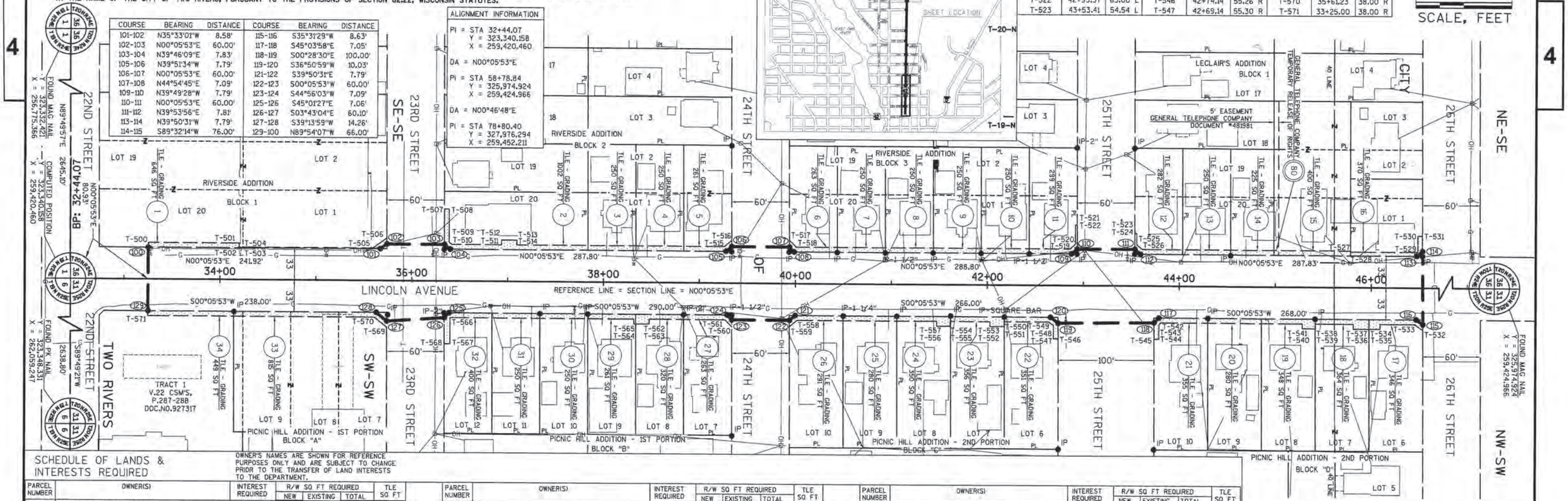
PI = STA 58+78.84
Y = 325,974.924
X = 259,424.966

DA = N00°46'48"E

PI = STA 78+80.40
Y = 327,976.294
X = 259,452.211







SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W SQ FT REQUIRED NEW	EXISTING	TOTAL	TLE SQ FT
1	THE FOUR SEASONS BUILDING PARTNERSHIP, LLP	FEE/TLE	18	--	18	646
2	GLADYS BEAUDIN	FEE/TLE	15	--	15	1002
3	ARTHUR A. ALLIE, A SINGLE PERSON	TLE	--	--	--	250
4	LINDSAY LEIGH AMMERMAN, SUBJECT TO LIFE ESTATE INTERSET OF SANDRA A. AMMERMAN	TLE	--	--	--	250
5	LEONARD E. LESPERANCE AND SYLVIA LESPERANCE, HIS WIFE AND THE SURVIVOR OF THEM	FEE/TLE	15	--	15	261
6	WILLIAM G. SCHWERMA AND CYNTHIA ANN SCHWERMA, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY	FEE/TLE	13	--	13	263
7	SHANE D. FRISH AND KAY L. FRISH, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY	TLE	--	--	--	250
8	NORBERT F. VOHWINKEL AND DIANE D. VOHWINKEL, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY	TLE	--	--	--	250
9	SENG YANG AND MAO MOUA, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY	TLE	--	--	--	250
10	GENIE VARNEY a/k/a GENEVIEVE VARNEY	TLE	--	--	--	250
11	SUSAN E. DEKOK, A SINGLE PERSON	FEE/TLE	15	--	15	299
12	CONRAD SWIGGUM AND ELAINE SWIGGUM, HUSBAND AND WIFE	FEE/TLE	15	--	15	282
13	DORIS L. EURICH, A SINGLE PERSON	TLE	--	--	--	250
14	MARY L GRAMS, A SINGLE PERSON	TLE	--	--	--	225
15	LINDA M. DAMROW REVOCABLE TRUST U/A DATED OCTOBER 25, 2005	TLE	--	--	--	400
16	TINA M. CHRISTMAN, A SINGLE PERSON	FEE/TLE	15	--	15	370
17	JANET M. PARMA AND DAVID E. STODOLA, TO EACH AN UNDIVIDED 1/2 INTEREST AS TENANTS IN COMMON AND NOT AS JOINT TENANTS	FEE/TLE	18	--	18	346
18	JEROME AND MICHELLE LEGREVE, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY	TLE	--	--	--	364
19	DANIEL M. AND JODI A. MILLER, HUSBAND AND WIFE	TLE	--	--	--	348
20	BRIAN L. AND BIANCA McDANIEL, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY	TLE	--	--	--	280
21	CLYDE J. AND ELLEN M. SAHN, HUSBAND AND WIFE	FEE/TLE	13	--	13	355
22	AARON M. SCHULTZ AND KRISTEN M. SCHULTZ, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY	FEE/TLE	24	--	24	351
23	JOHN EDWARD RUETHER, A SINGLE PERSON	TLE	--	--	--	356
24	NELDA M. DAUGHERTY, A SINGLE PERSON	TLE	--	--	--	350
25	PATRICK G. BAGNALL AND NATHLEEN N. BAGNALL, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY	TLE	--	--	--	280
26	CANDICE N. WEBERSKI, A SINGLE PERSON	FEE/TLE	15	--	15	291
27	NANCY A . KAKES, A SINGLE PERSON	FEE/TLE	13	--	13	263
28	THE LORRAINE E. SCHWINDLER REVOCABLE LIVING TRUST, LORRAINE E. SCHWINDLER, TRUSTEE	TLE	--	--	--	320
29	DAVID LEE BIELY, A SINGLE PERSON	TLE	--	--	--	261
30	ROSE F. LaCLAIR, A SINGLE PERSON	TLE	--	--	--	250
31	GEORGE FRASCH AND EDITH FRASCH, HUSBAND AND WIFE, AS JOINT TENANTS, WITH FULL RIGHT OF SURVIVIORSHIP	TLE	--	--	--	250
32	EDWARD T. BARUTH	FEE/TLE	13	--	13	400
33	NEW BANCSHARES, INC.	FEE/TLE	50	--	50	815
34	PATSY'S HWY 42 MOBILE MART, LLC, A WISCONSIN LIMITED LIABILITY COMPANY	TLE	--	--	--	449
80	GENERAL TELEPHONE COMPANY	TEMPORARY RELEASE OF RIGHTS				

MSA PROFESSIONAL SERVICES
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

I,BRADLEY L. TISDALE 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 THE DEPARTMENT OF TRANSPORTATION, I HAVE MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN BRADLEY L. TISDALE S-2824 WAUNAKEE WI LAND SURVEYOR

SIGNATURE: _____ DATE: 04/07/15
PRINT NAME: BRADLEY L TISDALE
REGISTRATION NUMBER: S-2824

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF TWO RIVERS

SIGNATURE: _____ 4/07/15
PRINT NAME: JAMES McDONALD

FILE NAME : P:\90S\93\00093170\CADD\C3D\RW\PLINE_93170.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : 4/7/2015 11:57 AM PLOT BY : BRAD TISDALE PLOT NAME : PLOT SCALE : **********

---------- 1470-18-21 4.01

TRANSPORTATION PROJECT PLAT NO: 1470-18-21- 4.02

THAT PART OF LOTS 1 AND 20 BLOCK 6 OF LECLAIR'S ADDITION, LOTS 1 AND 20 BLOCK 7 OF LECLAIR'S ADDITION, LOTS 1 AND 20 BLOCK 12 OF LECLAIR'S ADDITION, VACATED 29TH STREET V717, PG380, DOCUMENT NO. 658249, TRACT 3 CSM V.9, P.199, LOTS 1 AND 20 OF BLOCK 3 OF CHAS SAYER'S SUBDIVISION NO. 2 ADDITION ALL LOCATED IN THE NE 1/4 OF THE SE 1/4 AND THE SE 1/4 OF THE NE 1/4 OF SECTION 36, T20N, R24E CITY OF TWO RIVERS AND PART OF LOTS 6, 7, 8, 9 AND 10 OF BLOCK "E" OF PICNIC HILL ADDITION - 2ND PORTION, LOTS 6, 7, 8, 9 AND 10 OF BLOCK "F" OF PICNIC HILL ADDITION - 2ND PORTION, LOTS 6, 7, 8, 9, AND 10 OF BLOCK "G" OF PICNIC HILL ADDITION - 2ND PORTION, LOTS 6, 7 AND LOT 8 OF BLOCK "H" OF PICNIC HILL ADDITION - 2ND PORTION, ALL LOCATED IN AND INCLUDING THE NW 1/4 OF THE SW 1/4 AND THE SW 1/4 OF THE NW 1/4 OF SECTION 31, T20N, R25E, CITY OF TWO RIVERS, MANITOWOC COUNTY, WISCONSIN.

RELOCATION ORDER STH 42 LINCOLN AVENUE, CITY OF TWO RIVERS, MANITOWOC COUNTY.

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF TWO RIVERS DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22 WISCONSIN STATUTES, THE CITY OF TWO RIVERS 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 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 TWO RIVERS, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

R/W POINT	STATION	OFFSET	Y	X
130	47+13.29	38.00 L	324,809.444	259,384.973
131	47+18.32	33.00 L	324,814.464	259,389.981
132	50+07.32	33.00 L	325,103.464	259,390.475
133	50+13.29	38.00 L	325,109.444	259,385.486
134	50+73.29	38.00 L	325,169.445	259,385.588
135	50+80.32	33.00 L	325,176.465	259,390.600
136	53+48.32	33.00 L	325,444.462	259,391.059
137	54+08.28	40.00 L	325,504.435	259,384.161
138	54+18.32	33.00 L	325,514.463	259,391.178
139	58+21.19	33.00 L	325,917.330	259,391.867
140	58+28.63	50.78 L	325,924.804	259,374.103
141	58+78.80	43.00 L	325,974.959	259,381.965
142	58+93.61	33.06 L	325,990.145	259,392.108
143	61+73.69	34.23 L	326,270.213	259,394.753
144	61+78.53	39.25 L	326,275.120	259,389.801
145	61+78.53	0.00 R	326,274.586	259,429.045
146	61+12.84	0.00 R	326,208.906	259,428.151
147	61+12.84	33.00 R	326,208.457	259,461.148
148	58+79.82	33.00 R	325,975.454	259,457.972
149	57+55.01	33.00 R	325,851.037	259,457.754
150	57+44.02	39.00 R	325,840.042	259,463.735
151	56+84.03	40.00 R	325,780.043	259,464.633
152	56+75.01	33.00 R	325,771.037	259,457.617
153	54+15.01	33.00 R	325,511.037	259,457.173
154	54+09.04	38.00 R	325,505.057	259,462.162
155	53+49.04	38.00 R	325,445.057	259,462.060
156	53+42.01	33.00 R	325,438.037	259,457.048
157	50+80.01	33.00 R	325,176.038	259,456.600
158	50+74.04	38.00 R	325,170.058	259,461.589
159	50+14.04	38.00 R	325,110.058	259,461.487
160	50+07.01	33.00 R	325,103.038	259,456.475
161	47+20.01	33.00 R	324,816.038	259,455.984
162	47+14.04	38.00 R	324,810.058	259,460.974

TLE POINT	STATION	OFFSET
T-572	47+13.25	45.09 L
T-573	47+20.38	38.00 L
T-574	47+67.72	38.00 L
T-575	47+67.72	43.00 L
T-576	47+81.72	43.00 L
T-577	47+81.72	38.00 L
T-578	48+34.07	38.00 L
T-579	48+34.07	43.00 L
T-580	48+49.07	43.00 L
T-581	48+49.07	38.00 L
T-582	50+05.51	38.00 L
T-583	50+13.26	44.49 L
T-584	50+73.26	44.16 L
T-585	50+81.92	38.00 L
T-586	51+43.21	38.00 L
T-587	51+43.21	43.00 L
T-588	51+58.21	43.00 L
T-589	51+58.21	38.00 L
T-590	52+08.63	38.00 L
T-591	52+08.63	33.00 L
T-592	54+08.15	62.59 L
T-593	54+13.15	62.62 L
T-594	54+13.27	42.62 L
T-595	54+19.89	38.00 L
T-596	54+83.23	38.00 L
T-597	54+83.23	33.00 L
T-598	55+45.67	33.00 L
T-599	55+45.65	38.00 L
T-600	57+72.42	38.00 L

TLE POINT	STATION	OFFSET
T-601	57+72.42	33.00 L
T-602	57+80.42	33.00 L
T-603	57+80.42	36.00 L
T-604	58+15.51	36.00 L
T-605	58+15.51	33.00 L
T-606	58+20.49	33.00 L
T-607	58+19.78	68.17 L
T-608	58+28.27	68.35 L
T-609	58+78.27	69.09 L
T-610	58+79.45	69.14 L
T-611	58+80.14	47.76 L
T-612	58+95.08	38.07 L
T-613	61+71.56	39.22 L
T-614	61+76.37	44.21 L
T-615	61+75.89	59.20 L
T-616	61+77.89	59.27 L
T-617	61+12.99	38.00 R
T-618	60+28.89	38.00 R
T-619	60+28.89	43.00 R
T-620	59+15.19	43.00 R
T-621	59+15.19	41.00 R
T-622	58+12.45	41.00 R
T-623	58+12.45	33.00 R
T-624	58+09.45	33.00 R
T-625	58+09.45	38.00 R
T-626	57+52.11	38.00 R
T-627	57+49.03	39.69 R
T-628	57+49.09	63.00 R
T-629	57+44.09	63.00 R

TLE POINT	STATION	OFFSET
T-630	56+84.05	50.07 R
T-631	56+81.05	50.07 R
T-632	56+81.04	44.00 R
T-633	56+73.28	38.00 R
T-634	54+16.83	38.00 R
T-635	54+09.07	44.49 R
T-636	53+49.15	57.72 R
T-637	53+47.15	57.73 R
T-638	53+47.06	42.73 R
T-639	53+40.41	38.00 R
T-640	52+50.66	38.00 R
T-641	52+50.66	43.00 R
T-642	52+36.66	43.00 R
T-643	52+36.66	38.00 R
T-644	50+81.82	38.00 R
T-645	50+74.07	44.46 R
T-646	50+14.16	60.17 R
T-647	50+12.16	60.18 R
T-648	50+12.08	45.18 R
T-649	49+99.14	36.00 R
T-650	49+88.26	36.00 R
T-651	49+88.26	38.00 R
T-652	49+11.04	38.00 R
T-653	49+11.07	43.00 R
T-654	48+94.07	43.00 R
T-655	48+94.04	38.00 R
T-656	47+21.83	38.00 R
T-657	47+14.07	44.49 R

COURSE	BEARING	DISTANCE
130-131	N44°56'02"E	7.09'
132-133	N39°50'31"W	7.79'
133-134	N00°05'53"E	60.00'
134-135	N35°31'29"E	8.63'
136-137	N06°33'38"W	60.37'
137-138	N34°58'55"E	12.24'
139-140	N67°10'56"W	19.27'
140-141	N08°54'35"E	50.77'
141-142	N33°44'23"E	18.26'
143-144	N45°15'26"W	6.97'
144-145	S89°13'12"E	39.25'
145-146	S00°46'48"W	65.69'
146-147	S89°13'12"E	33.00'
149-150	S28°32'50"E	12.52'
150-151	S00°51'25"E	60.01'
151-152	S37°54'56"W	11.42'
153-154	S39°50'31"E	7.79'
154-155	S00°05'53"W	60.00'
155-156	S35°31'29"W	8.63'
157-158	S39°50'31"E	7.79'
158-159	S00°05'53"W	60.00'
159-160	S35°31'29"W	8.63'
161-162	S39°50'31"E	7.79'
162-130	S89°32'14"W	76.00'

1154576

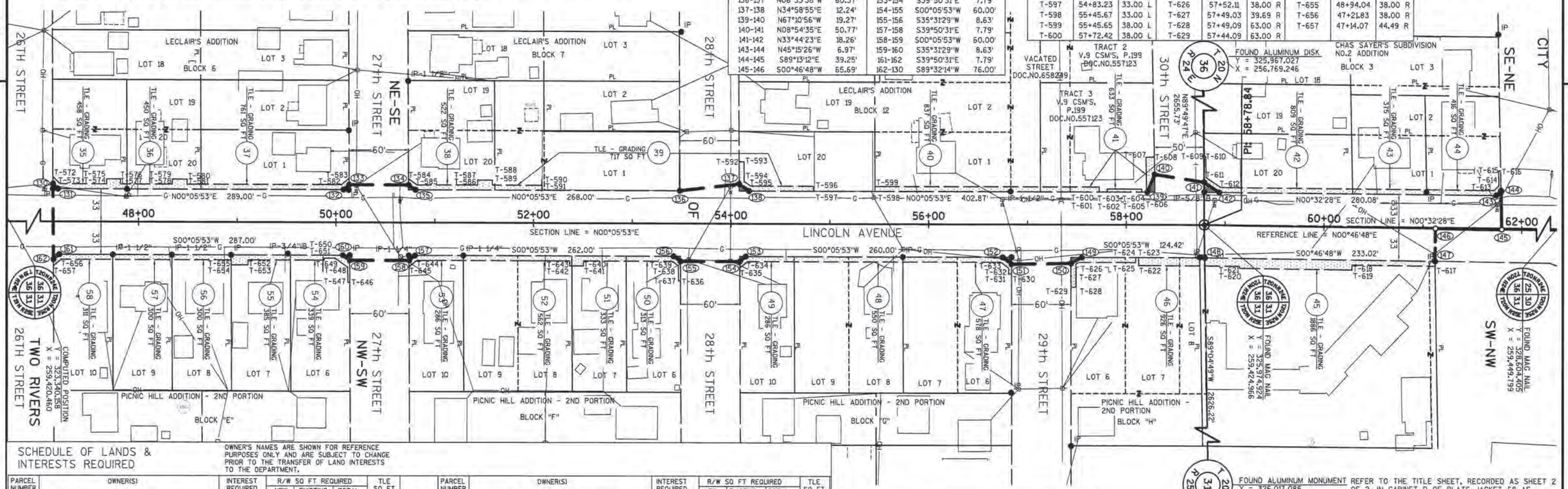
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PROJECT NUMBER 1470-18-21
SHEET NO: 1 OF 1

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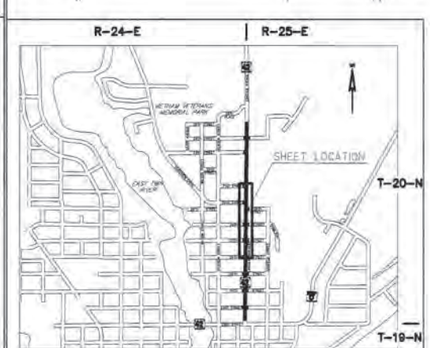


SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W SQ FT REQUIRED NEW	R/W SQ FT REQUIRED EXISTING	R/W SQ FT REQUIRED TOTAL	TLE SQ FT
35	DAVID D. ZUNKER AND WENDY S. ZUNKER, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY	FEE/TLE	13	--	13	458
36	BLAINE P. WALESH	TLE	--	--	--	450
37	GEROLD W. MESSMAN AND KENNETH T. MESSMAN, AS JOINT WITH RIGHT OF SUVIVORSHIP	FEE/TLE	15	--	15	761
38	EUGENE J. KAPLA	FEE/TLE	18	--	18	522
39	CLEM BECKER, INC.	FEE/TLE	35	--	35	717
40	JOHN K. THOMPSON AND GAIL C. SLAUGHTER	TLE	--	--	--	837
41	SCOTT D. ANDERSON AND HOLLY A. ANDERSON, HUSBAND AND WIFE AS SURVIVORSHIP MARITAL PROPERTY	FEE/TLE	70	--	70	633
42	RAYMOND M. MIKEAL AND LISA M. MIKEAL, HUSBAND AND WIFE AS SURVIVORSHIP MARITAL PROPERTY	FEE/TLE	75	--	75	809
43	STEVEN D. KUBEC, A SINGLE PERSON	TLE	--	--	--	375
44	LARRY P. RAATZ AND JOANNE L. RAATZ, HIS WIFE AS SURVIVORSHIP MARITAL PROPERTY	FEE/TLE	13	--	13	416
45	MARY BETH LECLAIR, A MARRIED PERSON	TLE	--	--	--	1886
46	JALO, INC., A WISCONSIN CORPORATION	FEE/TLE	33	--	33	926

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W SQ FT REQUIRED NEW	R/W SQ FT REQUIRED EXISTING	R/W SQ FT REQUIRED TOTAL	TLE SQ FT
47	LEONARD P. HENRICKSON AND YVONNE J. HENRICKSON, HIS AS JOINT TENANTS	FEE/TLE	32	--	32	578
48	THOMAS J. TERP	TLE	--	--	--	550
49	PAUL SIMONAR AND PAULETTE SIMONAR, HUSBAND AND WIFE, AS SURVIVORSHIP MARITAL PROPERTY	FEE/TLE	15	--	15	286
50	PAUL SIMONAR AND PAULETTE SIMONAR, HIS WIFE, AND THE SURVIVOR OF THEM	FEE/TLE	18	--	18	313
51	ERVIN H. KRIZEK	TLE	--	--	--	333
52	RONALD J. LUTZ AND PATRICIA KAE LUTZ, HUSBAND AND WIFE AS SURVIVORSHIP MARITAL PROPERTY	TLE	--	--	--	562
53	STEVEN W. KAKES	FEE/TLE	15	--	15	286
54	DONALD J. KUBEC AND KATHRYN L KUBEC, HUSBAND AND WIFE AS JOINT TENANTS WITH FULL RIGHT OF SURVIVORSHIP	FEE/TLE	18	--	18	339
55	ELIZABETH E. BLAZER, A SINGLE PERSON	TLE	--	--	--	365
56	JEAN ZAHORIK, A SINGLE PERSON	TLE	--	--	--	300
57	PATRICIA A. PIETROSKE AS INDIVIDUAL PROPERTY	TLE	--	--	--	300
58	JAMES L. ABNER, A SINGLE PERSON	FEE/TLE	15	--	15	311



ALIGNMENT INFORMATION

PI = STA 32+44.07
Y = 323,340.158
X = 259,420.460

DA = N00°05'53"E

PI = STA 58+78.84
Y = 325,974.924
X = 259,424.966

DA = N00°46'48"E

PI = STA 78+80.40
Y = 327,976.294
X = 259,452.211

FOUND ALUMINUM MONUMENT Y = 326,017.085 X = 262,050.846

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN CABINET D OF PLATS JACKET 68 AS DOCUMENT NO. 1154272 FOR ADDITIONAL INFORMATION.

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

I, BRADLEY L. TISDALE 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 THE DEPARTMENT OF TRANSPORTATION, I HAVE MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN — BRADLEY L. TISDALE S-2824 WAUNAKEE WI — LAND SURVEYOR

SIGNATURE: _____ DATE: 04/08/15
PRINT NAME: BRADLEY L TISDALE
REGISTRATION NUMBER: S-2824

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF TWO RIVERS

SIGNATURE: _____ DATE: 04/08/15
PRINT NAME: JAMES McDONALD

FILE NAME : P:\90S\93\00093170\CADD\C3D\RW\PLINE_93170.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : 4/14/2015 12:21 PM PLOT BY : BRAD TISDALE PLOT NAME : PLOT SCALE : **********

---------- 1470-18-21 4.02

TRANSPORTATION PROJECT PLAT NO: 1470-18-21 - 4.03

THAT PART OF THE LOTS 1 AND 20 OF BLOCK 1 OF CHAS SAYER'S SUBDIVISION NO.2 ADDITION, LOTS 1 AND 20 OF BLOCK 1 OF CHAS SAYER'S SUBDIVISION NO.3 ADDITION, LOTS 1 AND 20 BLOCK 8 OF CHAS SAYER'S SUBDIVISION NO.4 ADDITION, TRACT 1 AND 3 CSM V.6, P.253 ALL LOCATED IN THE SE 1/4 OF THE NE 1/4 AND THE NE 1/4 OF THE NE 1/4, SECTION 36 T20N, R24E, CITY OF TWO RIVERS AND PART OF TRACT 2A CSM V.8, PG.119 AND LOT 1, BLOCK 1 EASTPOINT SUBDIVISION NO.1 ALL LOCATED IN THE SW 1/4 OF THE NW 1/4 AND THE NW 1/4 OF OF THE NW 1/4 OF SECTION 31, T20N, R25E, CITY OF TWO RIVERS, MANITOWOC COUNTY, WISCONSIN.

RELOCATION ORDER STH 42 LINCOLN AVENUE, CITY OF TWO RIVERS, MANITOWOC COUNTY.

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF TWO RIVERS DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22 WISCONSIN STATUTES, THE CITY OF TWO RIVERS 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 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 TWO RIVERS, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

COURSE	BEARING	DISTANCE	COURSE	BEARING	DISTANCE
147-146	N89°13'12"W	33.00'	171-172	N12°00'51"W	61.11'
146-182	N00°46'48"E	126.95'	172-173	N49°35'25"E	6.67'
182-163	S88°56'40"W	39.52'	174-175	S89°13'12"E	48.01'
163-164	N39°41'25"E	7.92'	176-177	S89°13'12"E	51.17'
165-166	N00°32'28"E	60.00'	177-178	S43°35'14"E	10.00'
167-168	N58°33'39"W	9.32'	178-179	S06°35'54"W	69.70'
168-169	N03°23'55"E	60.16'	180-181	S19°43'30"W	53.00'
169-170	N44°46'26"E	7.17'	181-147	S00°46'48"W	115.80'

R/W POINT	STATION	OFFSET	Y	X
146	61+12.84	0.00 R	326,208.906	259,428.151
147	61+12.84	33.00 R	326,208.457	259,461.148
163	62+38.53	39.50 L	326,335.118	259,390.368
164	62+44.69	34.53 L	326,341.210	259,395.424
165	65+39.09	35.75 L	326,635.596	259,398.204
166	65+99.09	36.00 L	326,695.594	259,398.771
167	68+94.48	37.23 L	326,990.981	259,401.560
168	68+99.24	45.25 L	326,995.842	259,393.609
169	69+59.33	42.50 L	327,055.891	259,397.175
170	69+64.48	37.53 L	327,060.977	259,402.221
171	71+99.48	38.51 L	327,295.967	259,404.441
172	72+59.07	52.04 L	327,355.738	259,391.720
173	72+63.46	47.02 L	327,360.059	259,396.795
174	75+01.07	48.01 L	327,597.661	259,399.039
175	75+01.07	0.00 L	327,597.008	259,447.048
176	72+66.22	0.00 L	327,362.180	259443.851
177	72+66.22	51.17 R	327,361.483	259,495.014
178	72+59.08	58.16 R	327,354.241	259,501.907
179	71+89.73	51.09 R	327,285.002	259,493.898
180	62+78.78	50.21 R	326,374.143	259,480.614
181	62+28.65	33.00 R	326,324.248	259,462.724
182	62+39.80	0.00 R	326,335.846	259,429.879

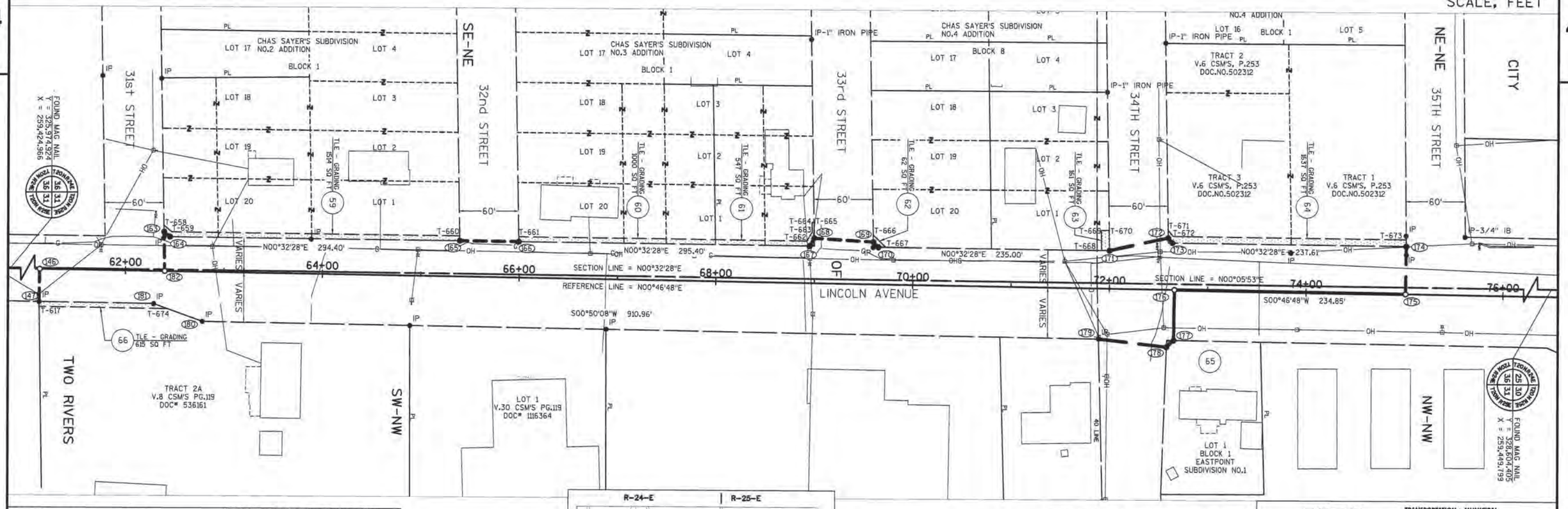
TLE POINT	STATION	OFFSET
T-617	61+12.99	38.00 R
T-658	62+38.32	46.09 L
T-659	62+46.45	39.53 L
T-660	65+38.93	40.75 L
T-661	65+99.07	41.00 L
T-662	68+91.63	42.22 L
T-663	68+97.05	51.36 L
T-664	68+96.74	61.36 L
T-665	68+98.74	61.42 L
T-666	69+59.11	49.67 L
T-667	69+71.65	37.56 L
T-668	71+91.48	38.47 L
T-669	71+90.87	58.46 L
T-670	71+98.86	58.71 L
T-671	72+58.83	59.91 L
T-672	72+64.20	53.78 L
T-673	75+00.91	54.76 L
T-674	62+43.21	38.00 R

1154577

REGISTERS OFFICE MANITOWOC COUNTY, WI } SS
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RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1470-18-21
SHEET NO: 1 OF 1

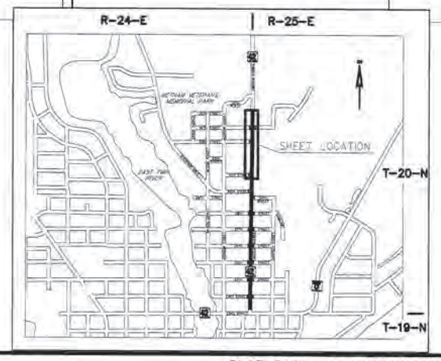
N
0 50 100
SCALE, FEET



PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W SQ FT REQUIRED NEW	EXISTING	TOTAL	TLE SQ FT
59	PEKARSKE PROPERTIES, LLC A WISCONSIN LIMITED LIABILITY COMPANY	FEE/TLE	15	--	15	1514
60	THE LIGHTHOUSE ASSEMBLY OF GOD CHURCH, INC.	TLE	--	--	--	1000
61	DONNA WALOTKIEWICZ	FEE/TLE	20	--	20	547
62	JOHN S. TORRISON	FEE/TLE	13	--	13	62
63	WALTER HARROLD AND AMALIA P. HARROLD, HUSBAND AND WIFE, AS SURVIVORSHIP MARITIAL PROPERTY	TLE	--	--	--	161
64	MERWYNN TRADE GROUP, LLC, A WISCONSIN LIMITED LIABILITY COMPANY	FEE/TLE	11	--	11	1637
65	VINCENT BURKE AND CHERYL BURKE, AS JOINT TENANTS WITH FULL RIGHT OF SURVIVORSHIP	FEE	25	--	25	--
66	ROBERT P. LAPOINT, III	TLE	--	--	--	615

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.



ALIGNMENT INFORMATION

PI = STA 32+44.07
Y = 323,340.158
X = 259,420.460

DA = N00°05'53"E

PI = STA 58+78.84
Y = 325,974.924
X = 259,424.966

DA = N00°46'48"E

PI = STA 78+80.40
Y = 327,976.294
X = 259,452.211

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN CABINET D OF PLATS JACKET 68 AS DOCUMENT NO. 1154272 FOR ADDITIONAL INFORMATION.

MSA PROFESSIONAL SERVICES
TRANSPORTATION • MUNICIPAL DEVELOPMENT • ENVIRONMENTAL
2901 International Lane Madison, WI 53704
608-242-7778 1-800-446-0679 Fax: 608-242-5664
Web Address: www.msa-ps.com
©MSA Professional Services, Inc.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

I, BRADLEY L TISDALE, 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 THE DEPARTMENT OF TRANSPORTATION, I HAVE MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN BRADLEY L TISDALE S-2824 WAUNAKEE WI LAND SURVEYOR

SIGNATURE: _____ DATE: 04/08/15
PRINT NAME: BRADLEY L TISDALE
REGISTRATION NUMBER: S-2824

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF TWO RIVERS

SIGNATURE: _____ 04/08/15
PRINT NAME: JAMES McDONALD

FILE NAME : P:\90S\93\00093170\CADD\C3D\RW\PLINE_93170.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : 4/9/2015 2:51 PM PLOT BY : BRAD TISDALE PLOT NAME : PLOT SCALE : **********

BENCHMARKS				
NO.	STATION	LOCATION	DESCRIPTION	ELEV.
701	36+26.7	47.4' RT.	TOP OF HYDRANT PUMPER NOZZLE	590.26

BEGIN PROJECT
STA. 33+10.00
Y = 323,406.09
X = 259,420.57

Y = 323,340.16
X = 259,420.46
BP: 32+44.07

22ND STREET (STH 42)
LINCOLN AVENUE (STH 42)
23RD STREET
MATCHLINE STA. 38+50

THE FOUR SEAS BUILDING PARTNERSHIP LLP
1010 22ND ST.

1560052009
GLADYS BEAUDIN
2304 LINCOLN AVENUE

1560050216
ARTHUR ALLIE
2314 LINCOLN AVENUE

1560050
SANDRA
2318 LI

1470011306
PATSY'S HWY 42 MOBILE MART, LLC
816 22ND ST

1470010609
NEW BANCSHARES, INC.
2221 LINCOLN AVENUE

1470021205
EDWARD BARUTH
828 23RD ST.

1470021107
GEORGE & EDITH FRASCH
2305 LINCOLN AVENUE

1470021009
ROSE LECLAIR
2311 LINCOLN AVENUE

1470020901
DAVID LEE BIELY
2315 LINCOLN AVENUE

1470
LORRA
2319

2634.77'
N00°05'53"E

REMOVING ASPHALTIC SURFACE
REMOVING ASPHALTIC SURFACE
REMOVING ASPHALTIC SURFACE
TWO RIVERS WATER & LIGHT (OVERHEAD)
WISCONSIN PUBLIC SERVICE (GAS)
CITY OF TWO RIVERS (STORM SEWER)
CHARTER COMMUNICATIONS (OVERHEAD)
CITY OF TWO RIVERS (SANITARY SEWER & WATER MAIN)
FRONTIER NORTH, INC. (FIBER)
CITY OF TWO RIVERS (STORM SEWER)
WISCONSIN PUBLIC SERVICE (GAS)
TWO RIVERS WATER & LIGHT (OVERHEAD)
SIGN LOCATED IN TLE TO REMAIN
REMOVING CURB & GUTTER
WISCONSIN PUBLIC SERVICE (GAS)
LIGHT POLE IN TLE TO REMAIN
PETROLEUM-CONTAMINATED SOIL AND GROUNDWATER
SHREDDED HARDWOOD BARK MULCH
CONCRETE STEPS
SLOPE INTERCEPTS (TYP.)
CONCRETE CURB PEDESTRIAN

STA. 34+00, LT.
35' ASPHALT
DRIVEWAY REQ'D.

STA. 36+26, LT.
20' CONC.
DRIVEWAY REQ'D.

STA. 37+94, LT.
13' CONC.
DRIVEWAY REQ'D.

STA. 38+40, LT.
10' CONC.
DRIVEWAY REQ'D.

STA. 32+32, RT.
39' CONC. DRIVEWAY
APRON REQ'D.

STA. 33+90, RT.
35' ASPHALT
DRIVEWAY REQ'D.

STA. 34+61, RT.
33' ASPHALT
DRIVEWAY REQ'D.

STA. 35+82, RT.
11' CONC. DRIVEWAY
APRON REQ'D.

STA. 36+90, RT.
11' CONC.
DRIVEWAY REQ'D.

STA. 37+41, RT.
11' CONC.
DRIVEWAY REQ'D.

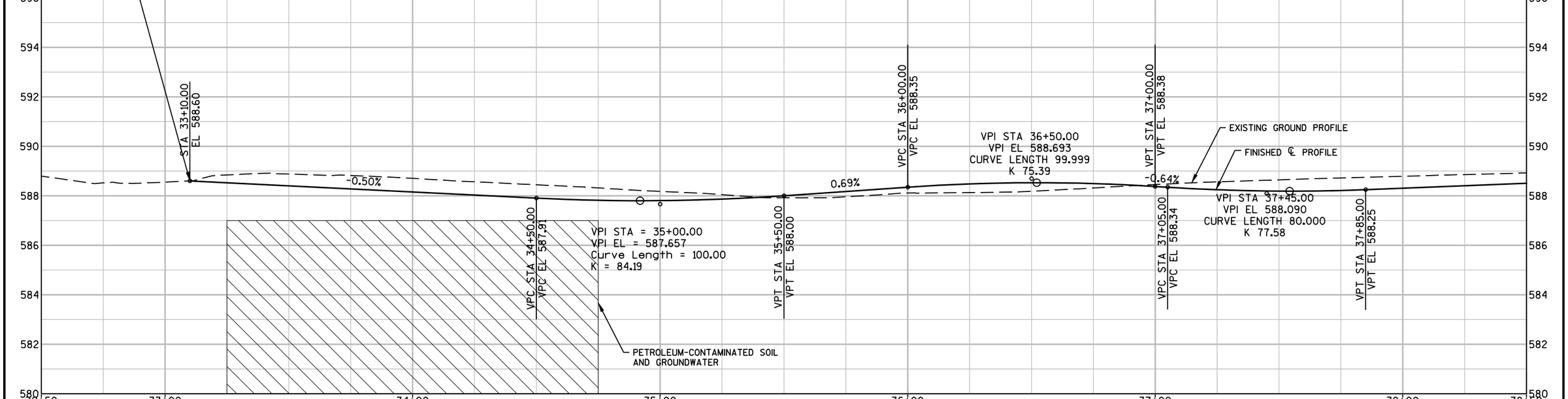
STA. 37+90, RT.
10' CONC.
DRIVEWAY REQ'D.

STA. 38+40, RT.
11' CONC.
DRIVEWAY REQ'D.

BM*701

2-200 PAIR (BURIED)

33+00 34+00 35+00 36+00 37+00 38+00

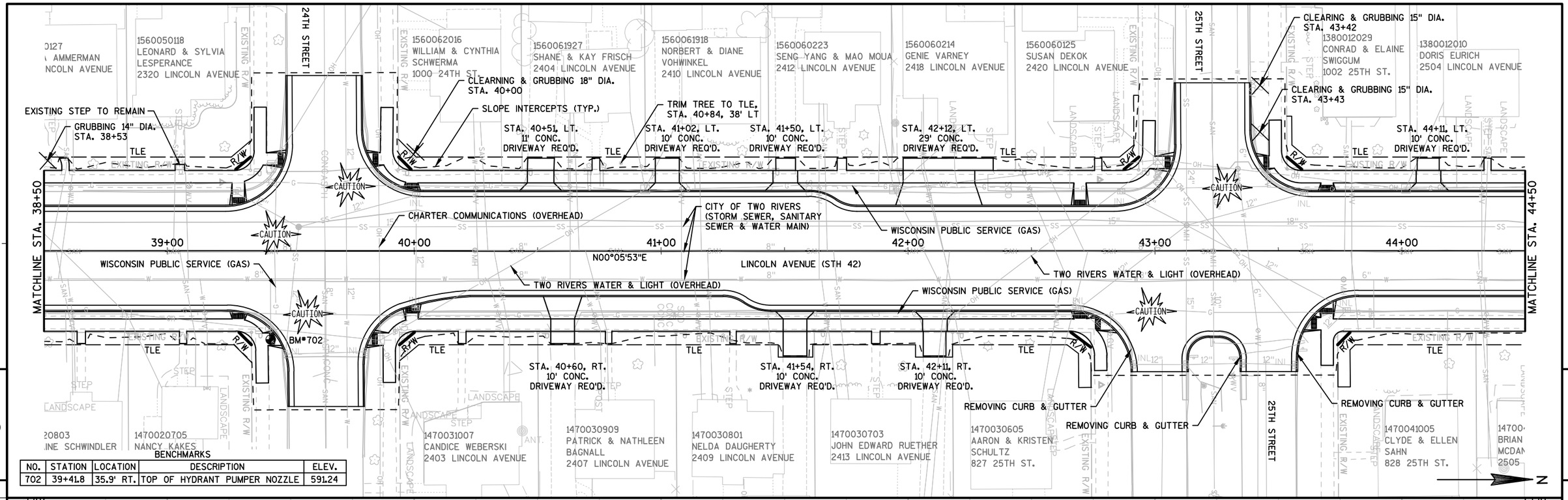


588.80 588.52 588.55 588.84 588.53 588.88 588.40 588.82 588.28 588.71 588.15 588.56 588.03 588.44 587.91 588.32 587.82 588.18 587.81 588.05 587.87 587.92 588.00 587.96 588.18 588.11 588.35 588.13 588.48 588.18 588.53 588.32 588.49 588.45 588.38 588.56 588.24 588.64 588.19 588.72 588.22 588.79 588.31 588.86 588.41 588.93 588.51

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PLAN AND PROFILE: LINCOLN AVENUE	SHEET 163 E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\93170 PLANPROFILE.DWG PLOT DATE : 7/13/2016 2:12 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 44

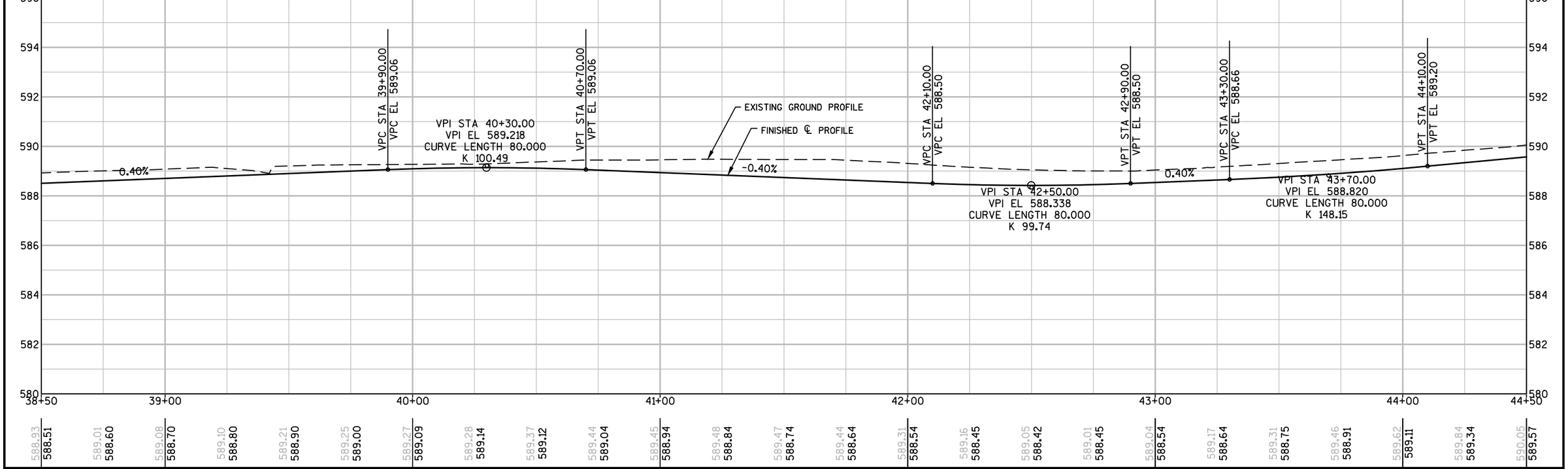


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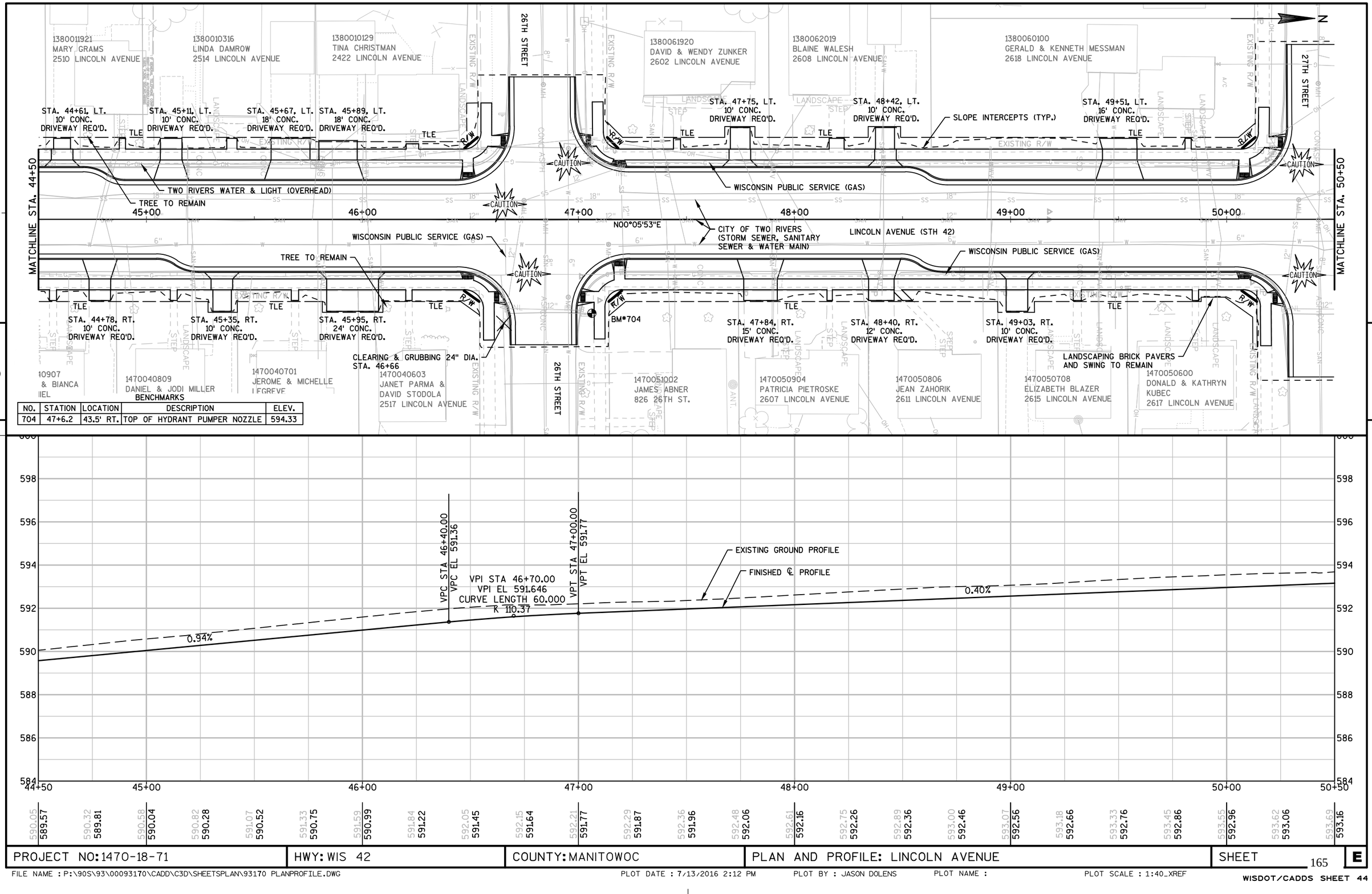
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BENCHMARKS

NO.	STATION	LOCATION	DESCRIPTION	ELEV.
702	39+41.8	35.9' RT.	TOP OF HYDRANT PUMPER NOZZLE	591.24



PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PLAN AND PROFILE: LINCOLN AVENUE	SHEET 164	E



5

5

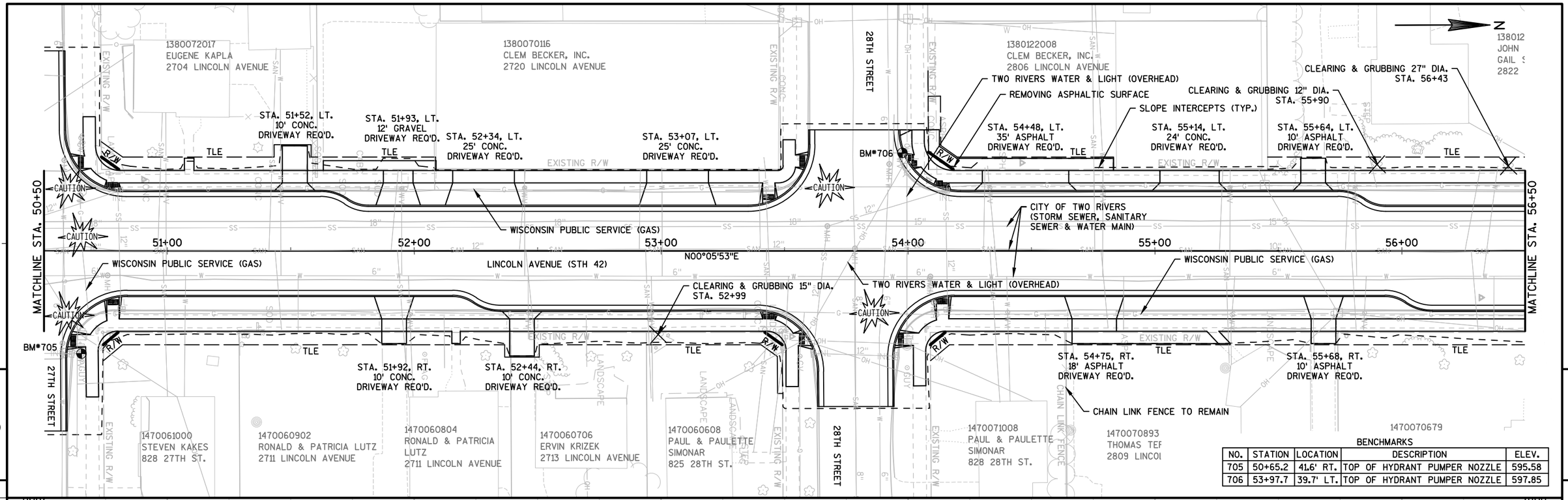
BENCHMARKS

NO.	STATION	LOCATION	DESCRIPTION	ELEV.
704	47+6.2	43.5' RT.	TOP OF HYDRANT PUMPER NOZZLE	594.33

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PLAN AND PROFILE: LINCOLN AVENUE	SHEET	E

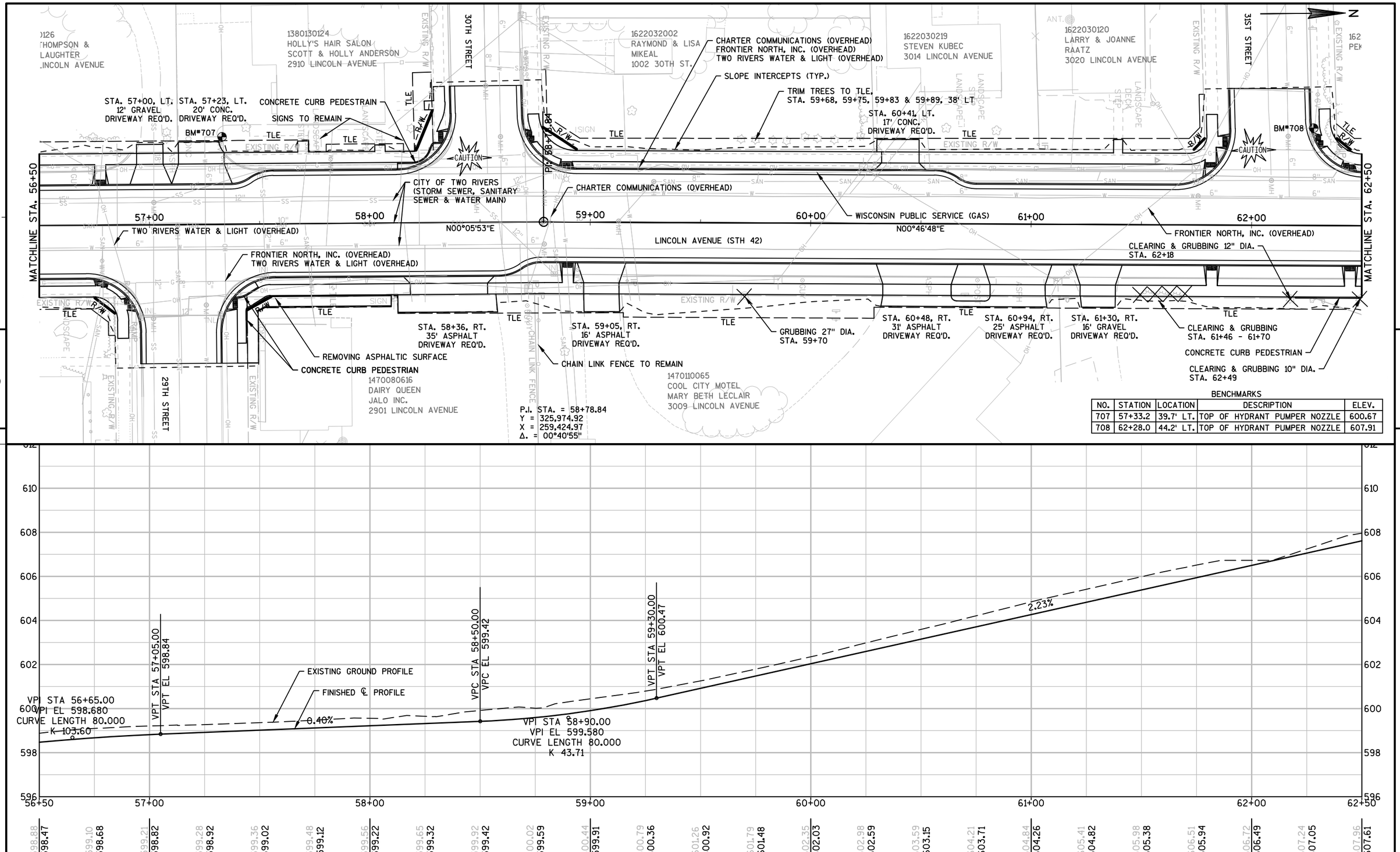
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WISDOT/CADDS SHEET 44



PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PLAN AND PROFILE: LINCOLN AVENUE	SHEET E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\93170 PLANPROFILE.DWG PLOT DATE : 7/13/2016 2:12 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF



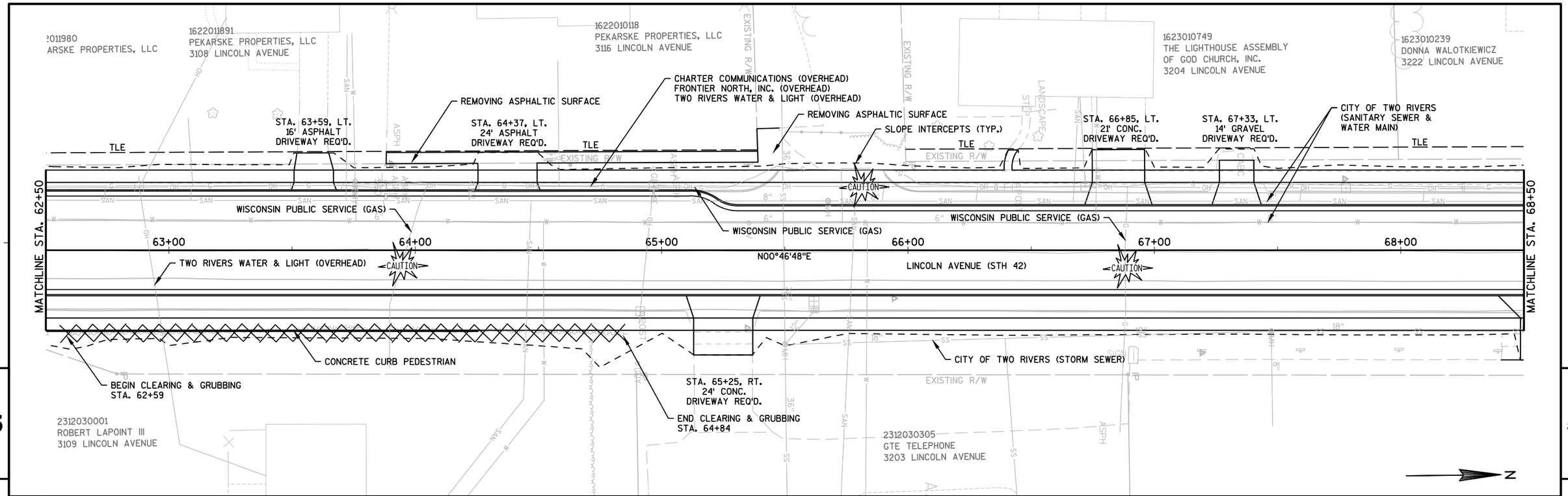
BENCHMARKS

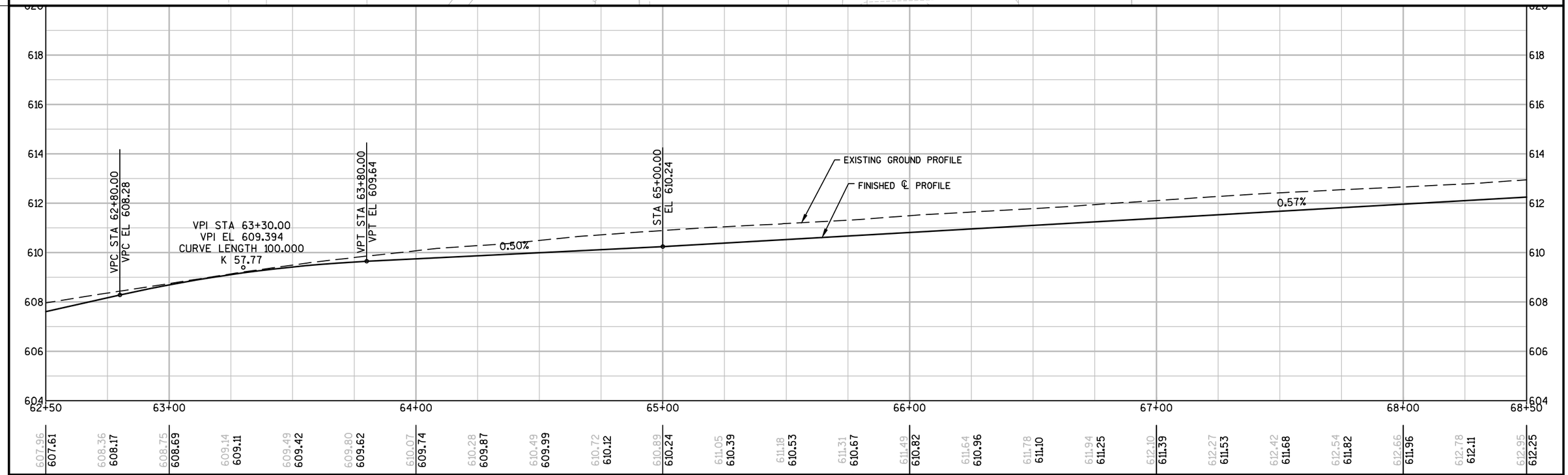
NO.	STATION	LOCATION	DESCRIPTION	ELEV.
707	57+33.2	39.7' LT.	TOP OF HYDRANT PUMPER NOZZLE	600.67
708	62+28.0	44.2' LT.	TOP OF HYDRANT PUMPER NOZZLE	607.91

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PLAN AND PROFILE: LINCOLN AVENUE	SHEET 167 E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\93170 PLANPROFILE.DWG PLOT DATE : 7/26/2016 1:45 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 44

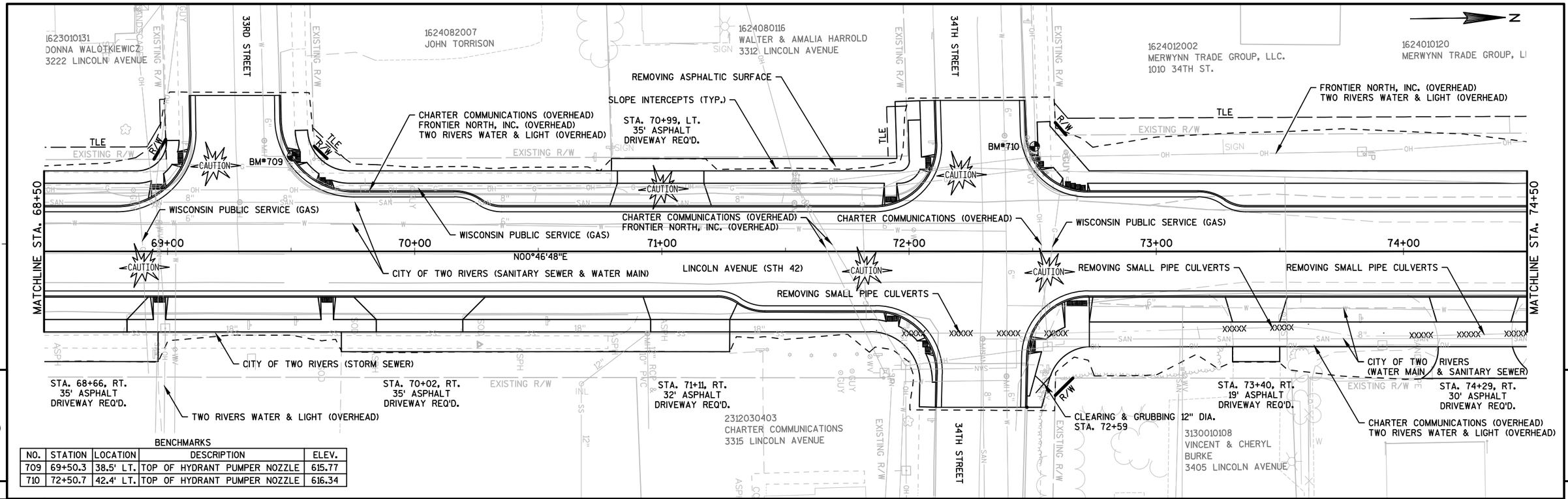




PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PLAN AND PROFILE: LINCOLN AVENUE	SHEET 168 E

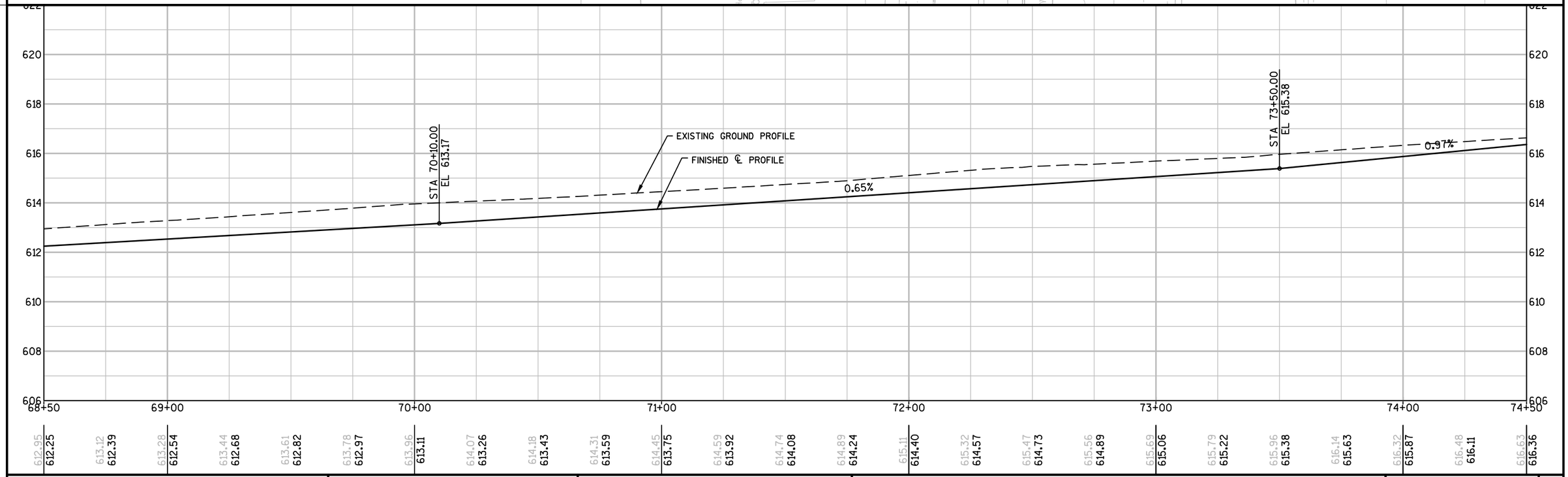
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WISDOT/CADDS SHEET 44



BENCHMARKS

NO.	STATION	LOCATION	DESCRIPTION	ELEV.
709	69+50.3	38.5' LT.	TOP OF HYDRANT PUMPER NOZZLE	615.77
710	72+50.7	42.4' LT.	TOP OF HYDRANT PUMPER NOZZLE	616.34



PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PLAN AND PROFILE: LINCOLN AVENUE	SHEET E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\93170 PLANPROFILE.DWG PLOT DATE : 7/13/2016 2:12 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1:40_XREF

P.I. STA. = 78+80.40
Y = 327,976.29
X = 259,452.21
Δ. = 00°28'54"

P.I. STA. = 80+50.00
Y = 328,145.89
X = 259,453.09
Δ. = 00°15'06"

N

3090010603
LARIS VALDRE
1448 TERRACE COURT

3090010505
TIMOTHY LOHR
1005 35TH PLACE

2361010011
STREU CONSTRUCTION COMP.
3612 LINCOLN AVENUE

35TH STREET

35TH PLACE

FRONTIER NORTH, INC. (OVERHEAD)
TWO RIVERS WATER & LIGHT (OVERHEAD)

FRONTIER NORTH, INC. (TELECOMMUNICATIONS)

SLOPE INTERCEPTS (TYP.)

TLE

EXISTING R/W

MATCHLINE STA. 74+50

REMOVING SMALL PIPE CULVERTS

CHARTER COMMUNICATIONS (OVERHEAD)

REMOVING ASPHALTIC SURFACE

PI: 78+80.40

PI: 80+50.00

75+00 76+00 77+00 78+00 79+00 80+00

N00°46'48"E N00°46'48"E N00°17'54"E

REMOVING SMALL PIPE CULVERTS

REMOVING SMALL PIPE CULVERTS

LINCOLN AVENUE (STH 42)

CAUTION

BM#711

STA. 76+05, RT.
35' ASPHALT
DRIVEWAY REQ'D.

STA. 77+31, RT.
32' ASPHALT
DRIVEWAY REQ'D.

CHARTER COMMUNICATIONS (OVERHEAD)
TWO RIVERS WATER & LIGHT (OVERHEAD)

WISCONSIN PUBLIC SERVICE (GAS)

CITY OF TWO RIVERS
(WATER MAIN & SANITARY SEWER)

END PROJECT
STA. 79+50.00
Y = 328,045.90
X = 259,452.57

2312020557
BRUCE MOFFATT

2312020209
TWO RIVERS BUSES INC.
3515 LINCOLN AVENUE

REMOVING ASPHALTIC SURFACE

2312020405
BRUCE MOFFATT
3601 LINCOLN AVENUE

BENCHMARKS

NO.	STATION	LOCATION	DESCRIPTION	ELEV.
711	75+62.4	42.5' RT.	TOP OF HYDRANT PUMPER NOZZLE	619.63

VPC STA 74+80.00
VPC EL 616.65

VPI STA 75+20.00
VPI EL 617.040
CURVE LENGTH 80.000
K 189.91

VPT STA 75+60.00
VPT EL 617.26

EXISTING GROUND PROFILE

FINISHED ℄ PROFILE

0.55%

STA 78+00.00
EL 618.59

0.67%

STA 79+50.00
EL 619.60

0.70%

STA 80+00.00
EL 619.95

624 622 620 618 616 614 612 610

74+50 75+00 76+00 77+00 78+00 79+00 80+00 80+50

616.63	616.77	616.92	617.12	617.32	617.53	617.70	617.90	618.06	618.25	618.35	618.44	618.55	618.67	618.82	618.98	619.05	619.23	619.34	619.43	619.60	619.77	619.95	620.10	620.24
616.36	616.60	616.83	617.04	617.20	617.34	617.48	617.62	617.76	617.90	618.04	618.17	618.31	618.45	618.59	618.76	618.93	619.09	619.26	619.43	619.60	619.77	619.95		

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	PLAN AND PROFILE: LINCOLN AVENUE	SHEET 170 E

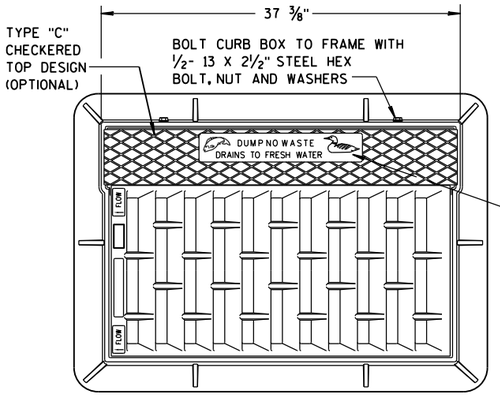
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WISDOT/CADDS SHEET 44

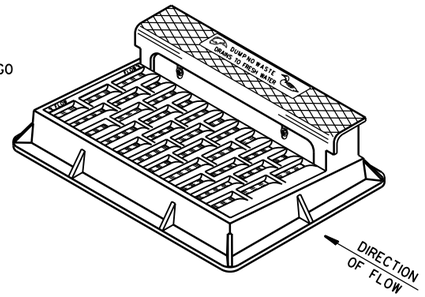
Standard Detail Drawing List

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
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08B10-01	MANHOLES 3X3-FT, 4X4-FT, 5X5-FT AND 6X6-FT
08C06-01	INLETS 3-FT AND 4-FT DIAMETER
08C07-01	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-01	INLETS MEDIAN 1 AND 2 GRATE
08D01-19	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D05-17A	CURB RAMPS TYPES 1 AND 1-A
08D05-17B	CURB RAMPS TYPES 2 AND 3
08D05-17C	CURB RAMPS TYPES 4A AND 4A1
08D05-17D	CURB RAMPS TYPE 4B AND 4B1
08D05-17E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
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
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-09	CONDUIT
09B04-11	PULL BOX
09C02-07	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C14-02	CONCRETE CONTROL CABINET BASE, TYPE L
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D04-02	LIGHTING CONTROL CABINET 120/240 VOLT
09E01-14D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E01-14G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-05	NON-FREEWAY LIGHTING UNIT POLE WIRING
13C01-18	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-08	URBAN DOWELED CONCRETE PAVEMENT
13C18-03A	CONCRETE PAVEMENT JOINTING
13C18-03B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-03C	CONCRETE PAVEMENT JOINT TIES
13C18-03D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
14A02-01	TREE PLANTING DETAIL
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-03	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C07-13B	PAVEMENT MARKING WORDS
15C07-13C	PAVEMENT MARKING ARROWS
15C07-13E	PAVEMENT MARKING FOR BIKE LANES
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C29-04A	BICYCLE LANE MARKING
15C33-02	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D30-03A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-03B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-03C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D38-01A	TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS
15D38-01B	ATTACHMENT OF SIGNS TO POSTS

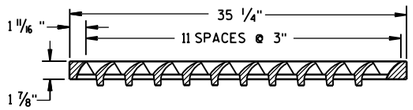
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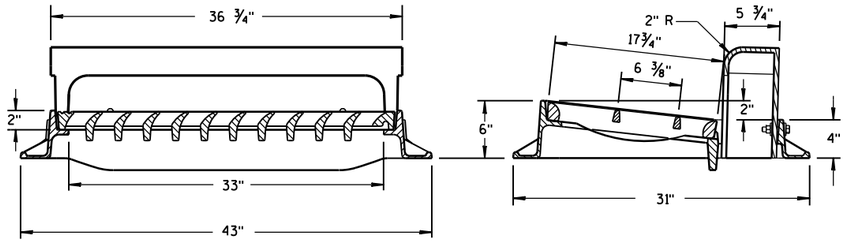


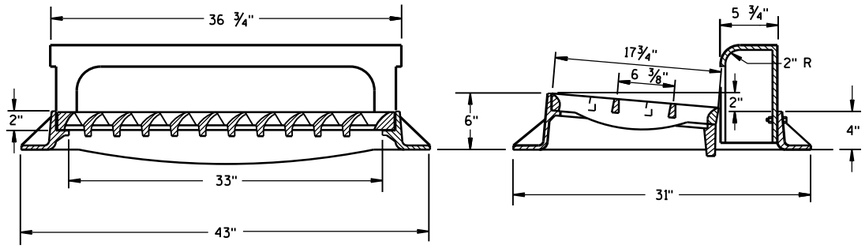
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

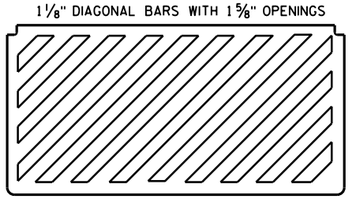






TYPE "H"

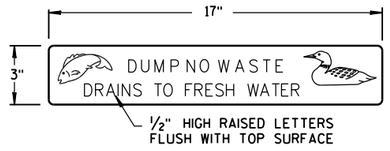
NOTE: EITHER CASTING IS ACCEPTABLE



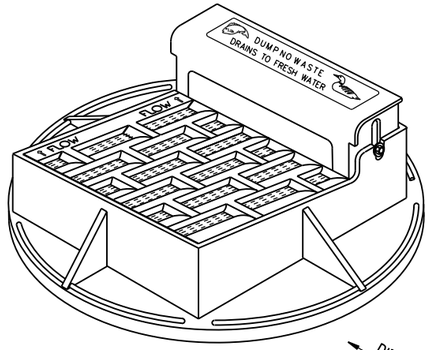
SPECIAL GRATE FOR TYPE "H" COVER

(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"

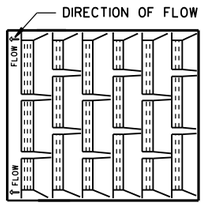
NOTE:
GRATE IS REVERSIBLE.

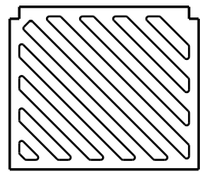
GENERAL NOTES

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.

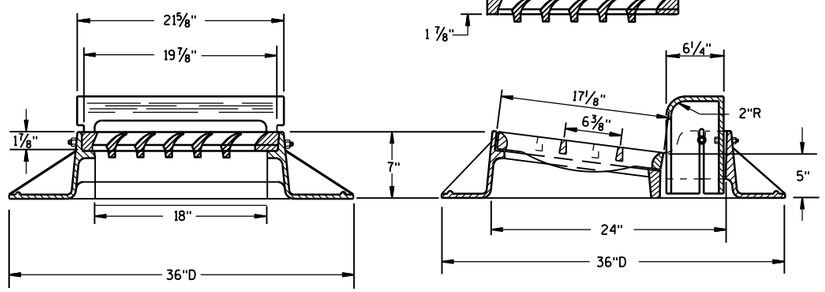




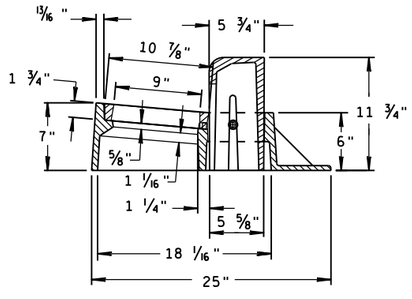
SPECIAL GRATE FOR TYPE "A" COVER

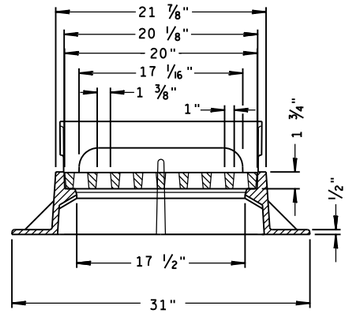
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)

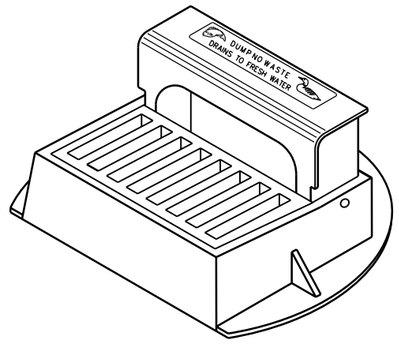


TYPE "A"





TYPE "Z"



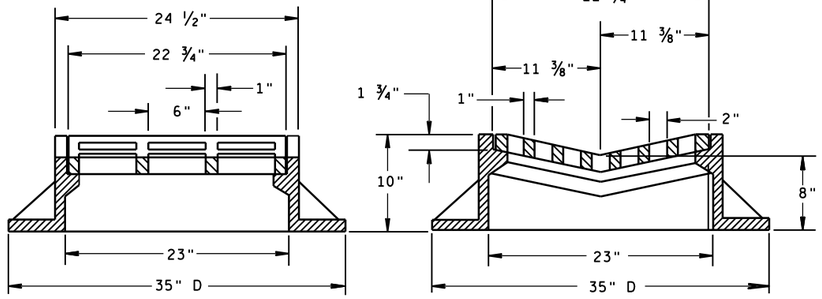
INLET COVERS
TYPE A, H, A-S, H-S & Z

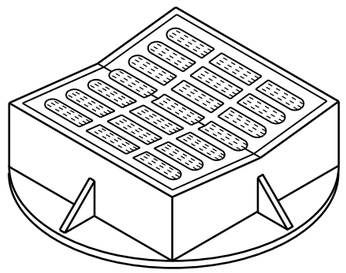
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

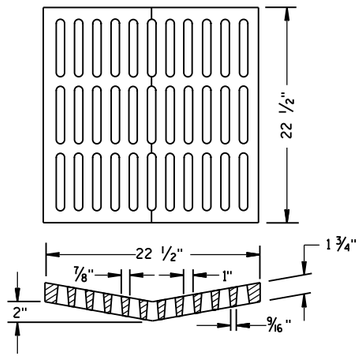
6

S.D.D. 8 A 5-19a



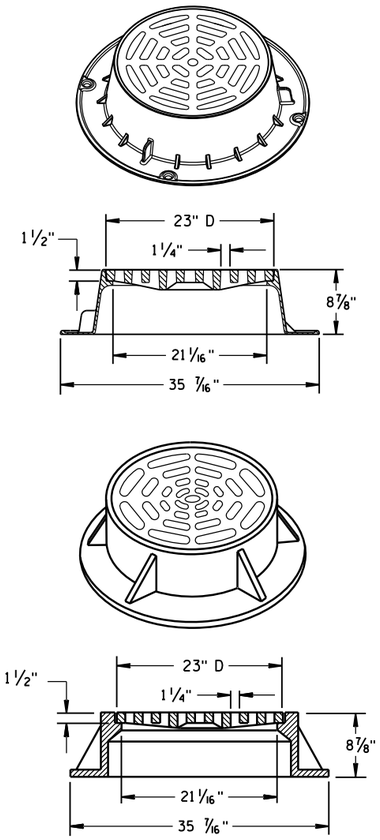


TYPE "B"



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"

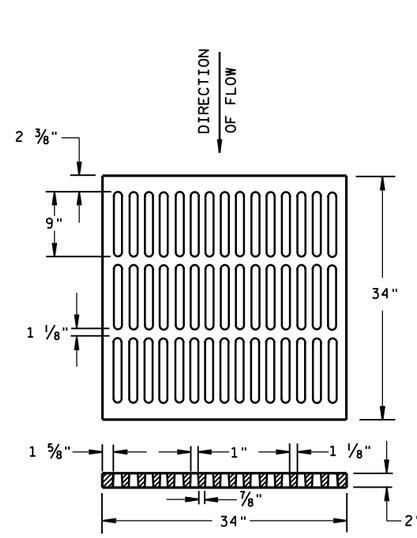
NOTE: EITHER CASTING IS ACCEPTABLE

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.

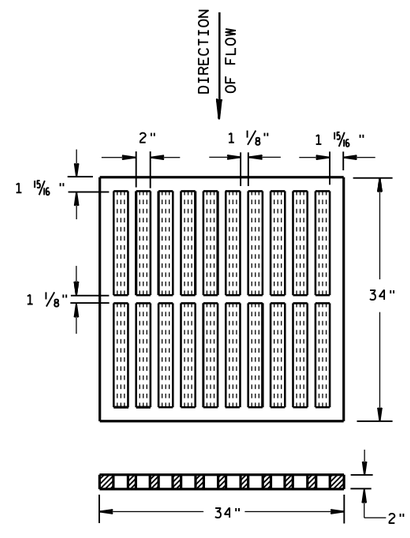
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



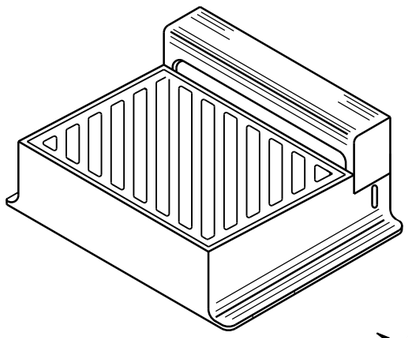
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

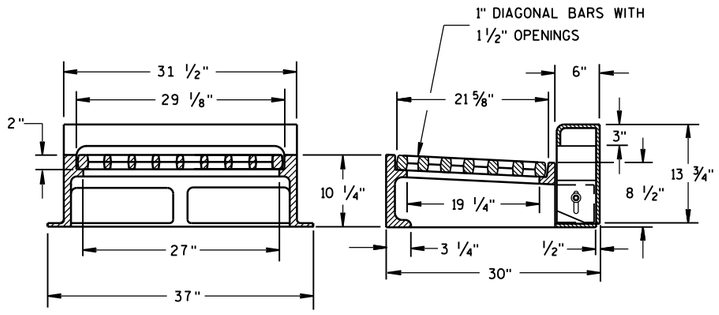


TYPE "MS"

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"

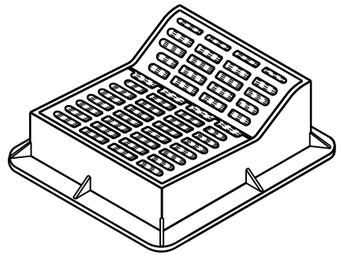
INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

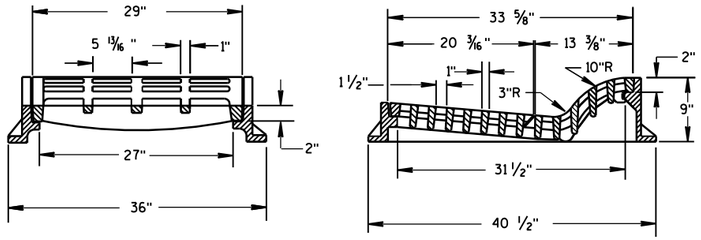
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

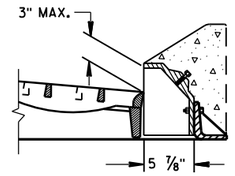
S.D.D. 8 A 5-19b





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

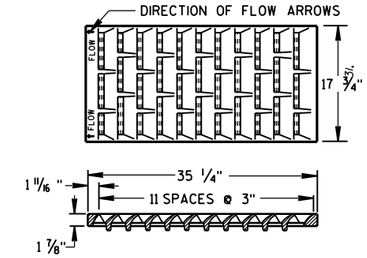
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

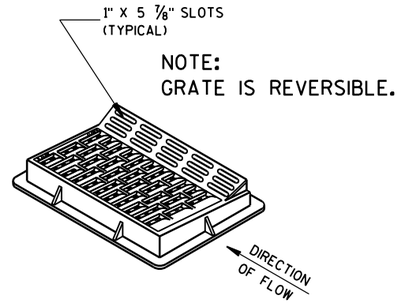
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

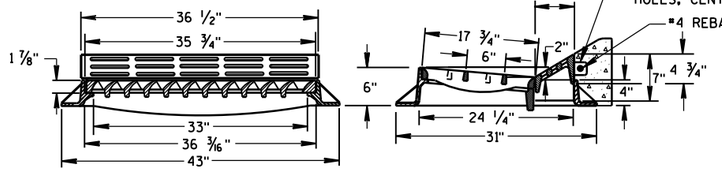
GENERAL NOTES

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.



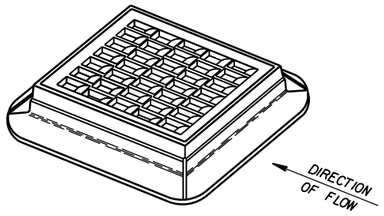


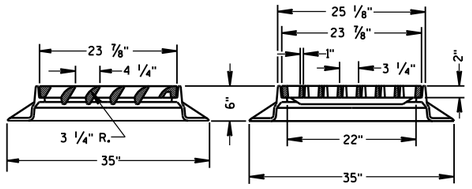


TYPE "HM"

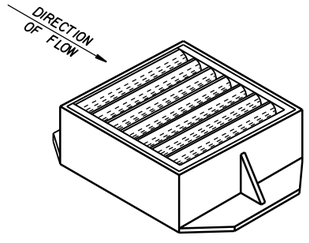
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

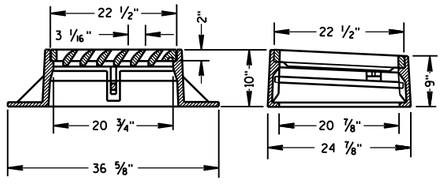
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



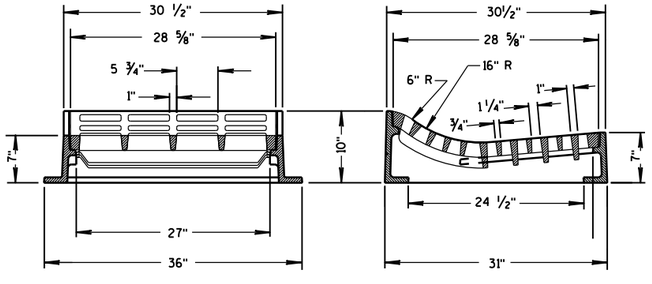


TYPE "S"



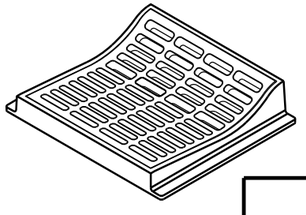


TYPE "V"



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

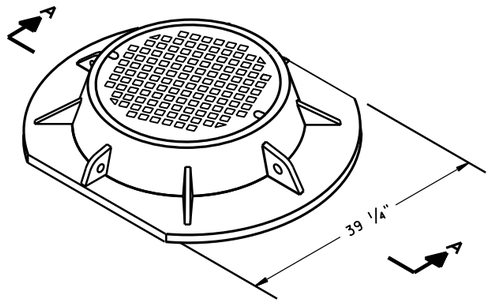
FHWA

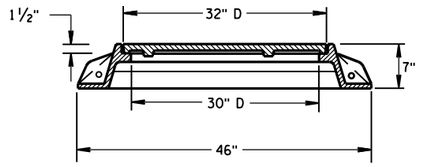
6

S.D.D. 8 A 5-19c

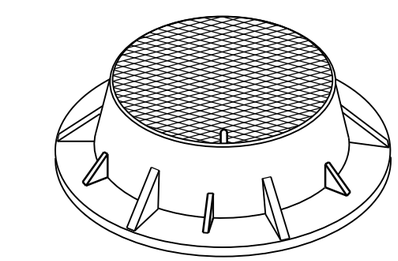
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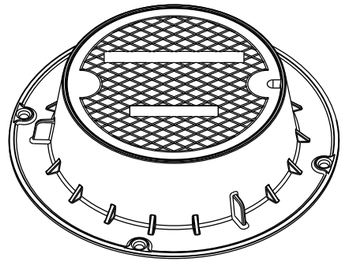
S.D.D. 8 A 5-19c

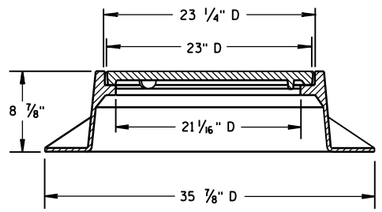


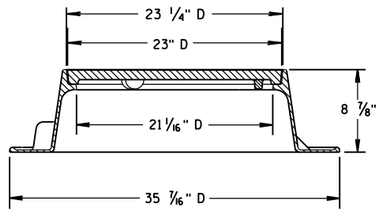


SECTION A-A
TYPE "K"









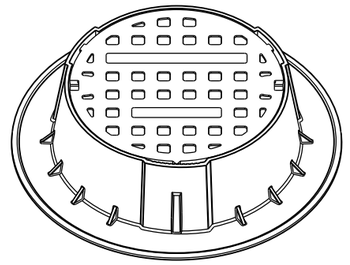
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

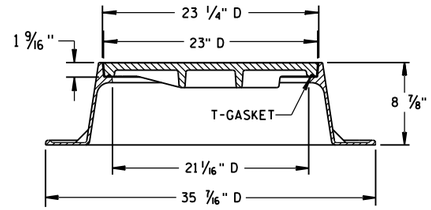
GENERAL NOTES

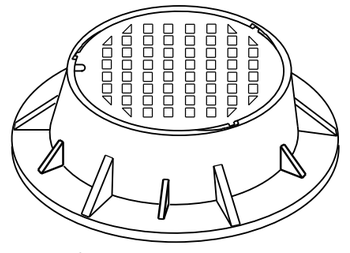
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

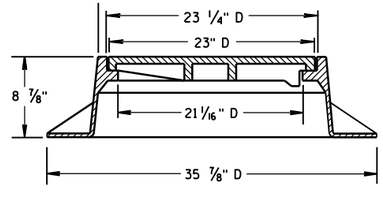
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

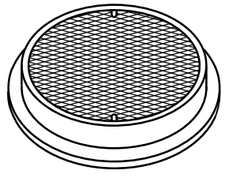


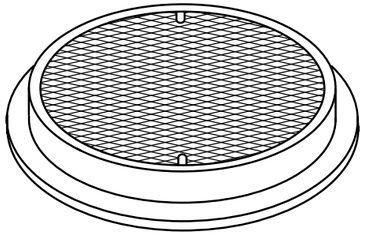


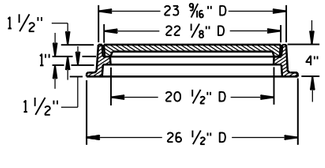




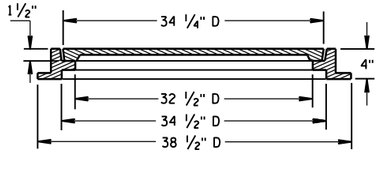
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



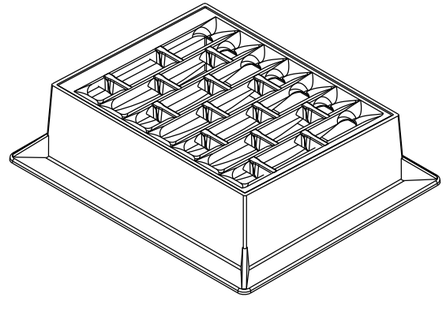


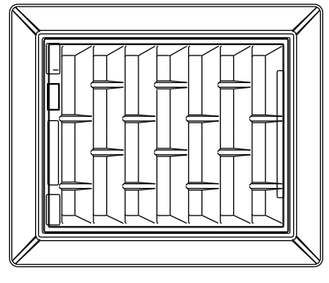


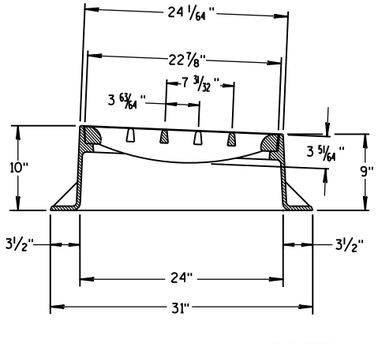
TYPE "L"

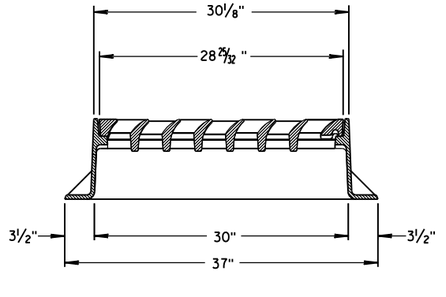


TYPE "M"









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

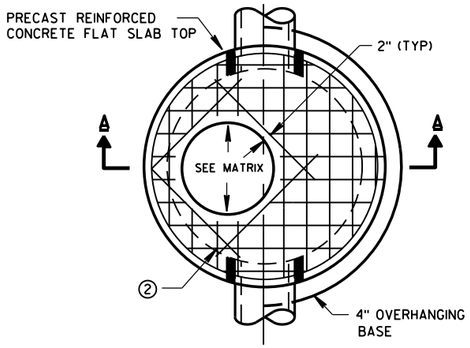
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

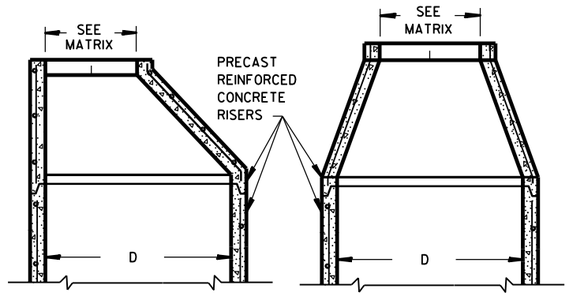
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S.D.D. 8 A 5-19d

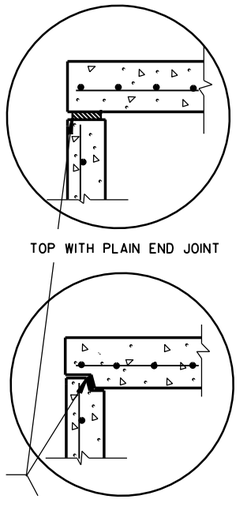


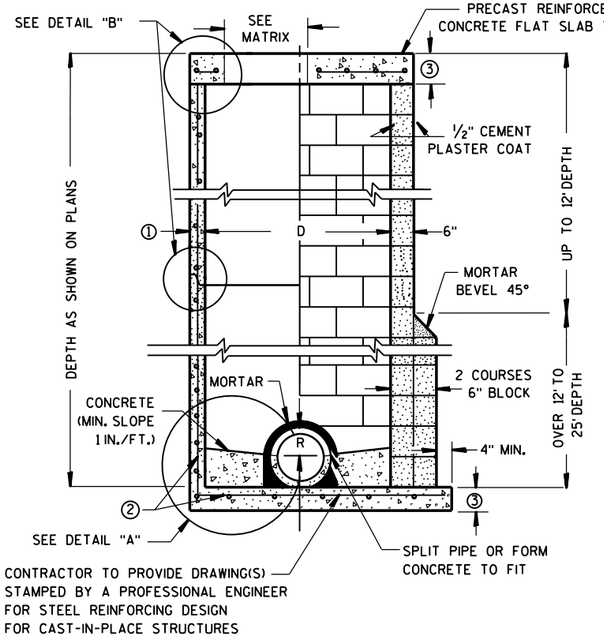
PLAN VIEW CIRCULAR OPENING



OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

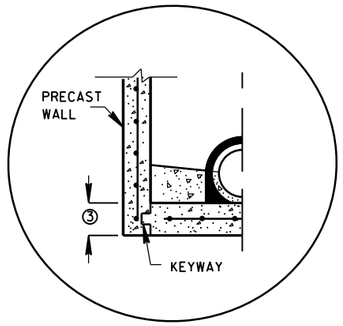
OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP



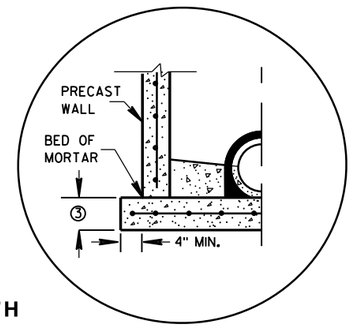


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

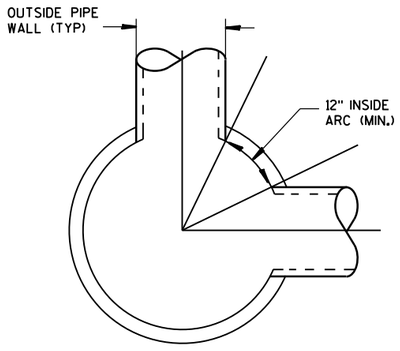


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

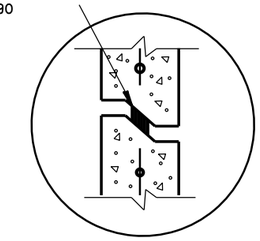


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"



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 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 GRANULAR 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. THE CONE 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.

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

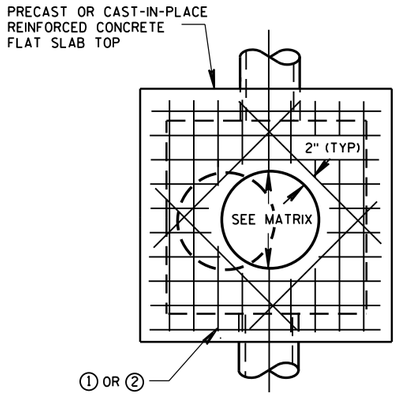
MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

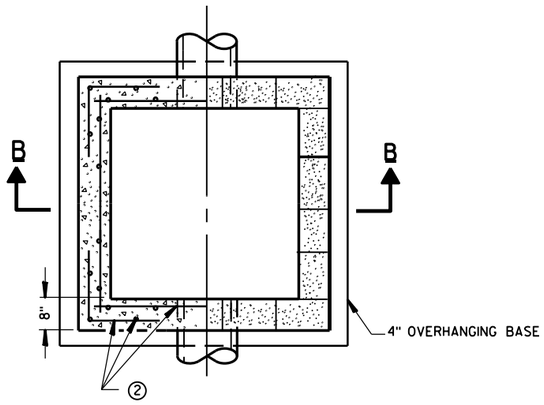
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

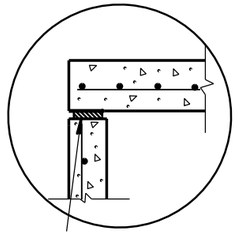
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S.D.D. 8 B 9-1



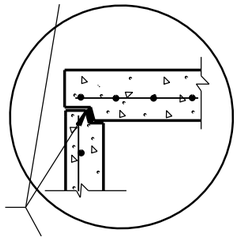
PLAN VIEW
CIRCULAR OPENING



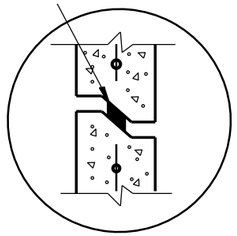
SECTION A-A
PLAN VIEW



TOP WITH PLAIN END JOINT

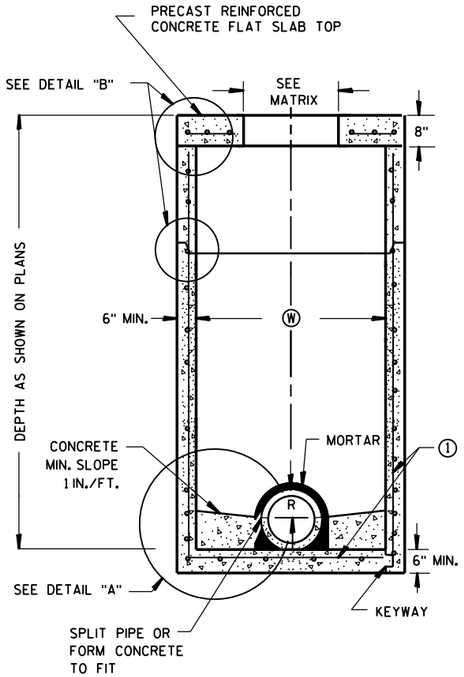


TOP WITH TONGUE AND GROOVE JOINT

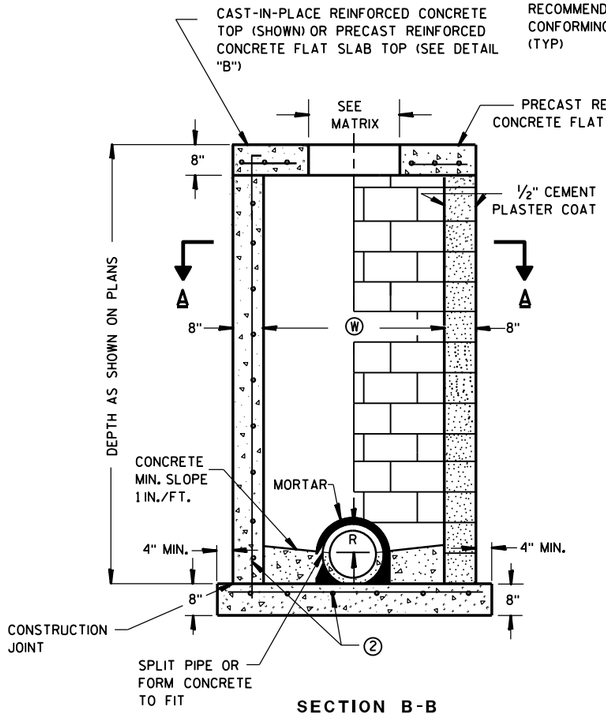


RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"



PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

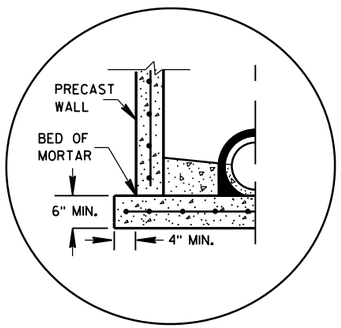


SECTION B-B

PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE

CAST-IN-PLACE REINFORCED CONCRETE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "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.

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 GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

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.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN WIDTH.

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 ASTM C 913.

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.

MAXIMUM PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "C". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

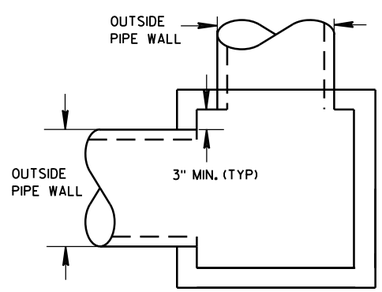
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

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	
	WIDTH (W) (IN)	LENGTH (L) (IN)
3X3-FT	24	24
4X4-FT	30	30
5X5-FT	42	42
6X6-FT	54	54



DETAIL "C"

SQUARE MANHOLES W/ FLAT TOP

MANHOLES 3X3-FT, 4X4-FT, 5X5-FT AND 6X6-FT

MANHOLES 3X3-FT, 4X4-FT
5X5-FT AND 6X6-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

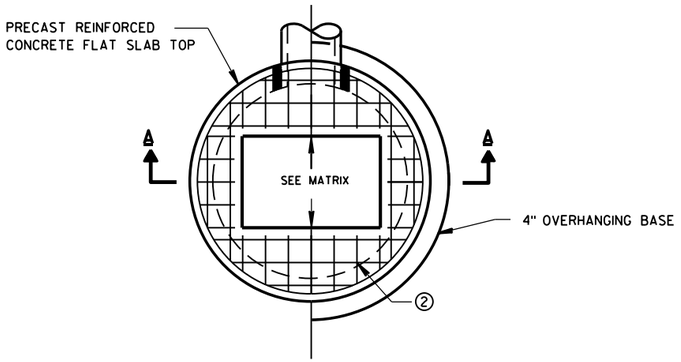
APPROVED
6/5/2012
DATE
/S/ Jerry H. Zoda
ROADWAY STANDARDS ENGINEER
FHWA

6

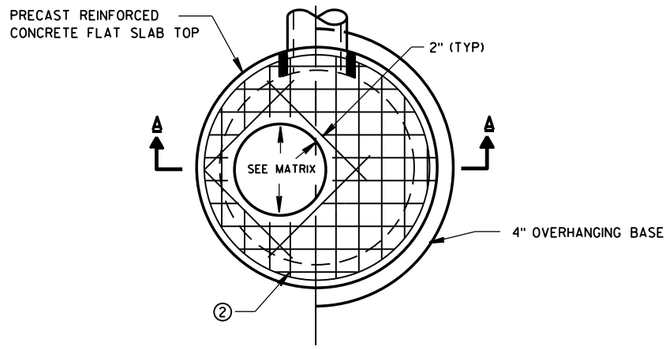
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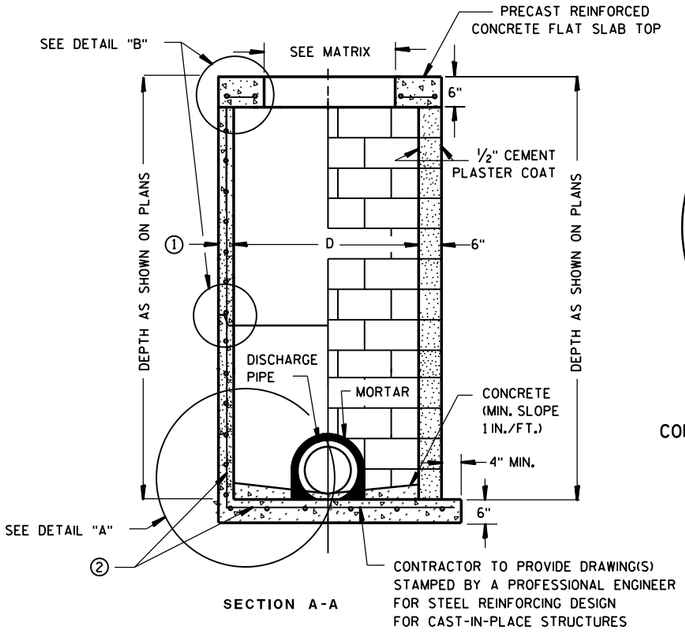
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PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

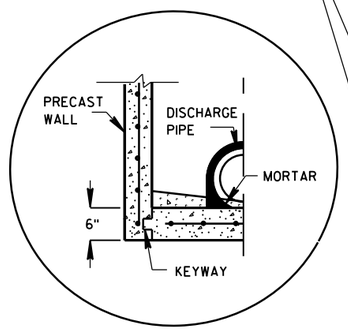


SECTION A-A

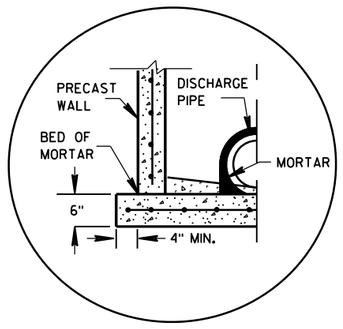
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

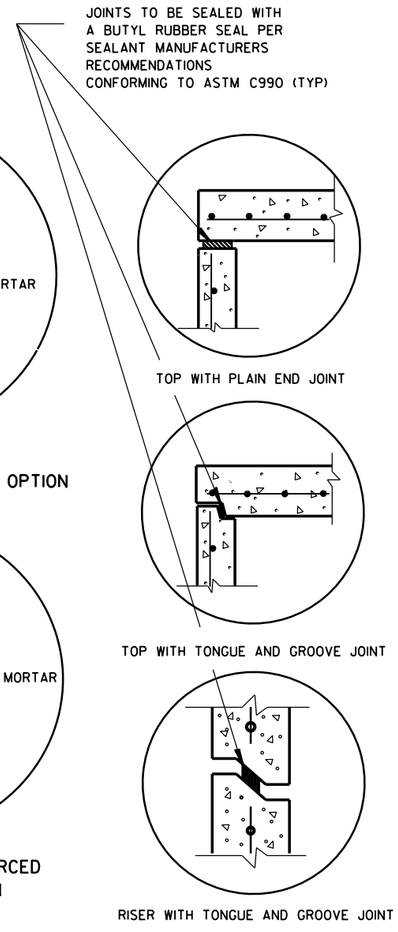


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



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 GRANULAR 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.

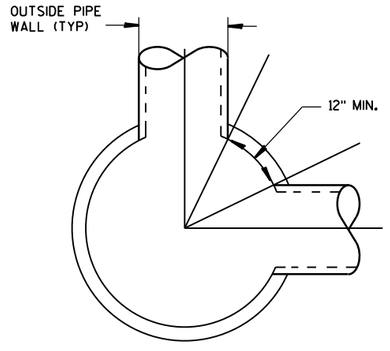
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

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

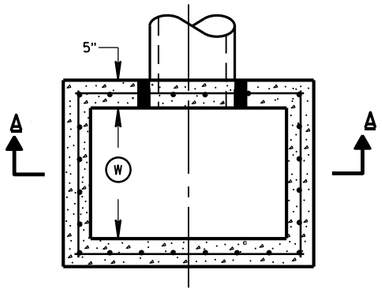
INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN
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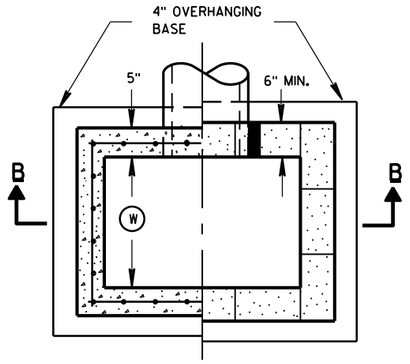
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

INLETS 3-FT AND 4-FT DIAMETER

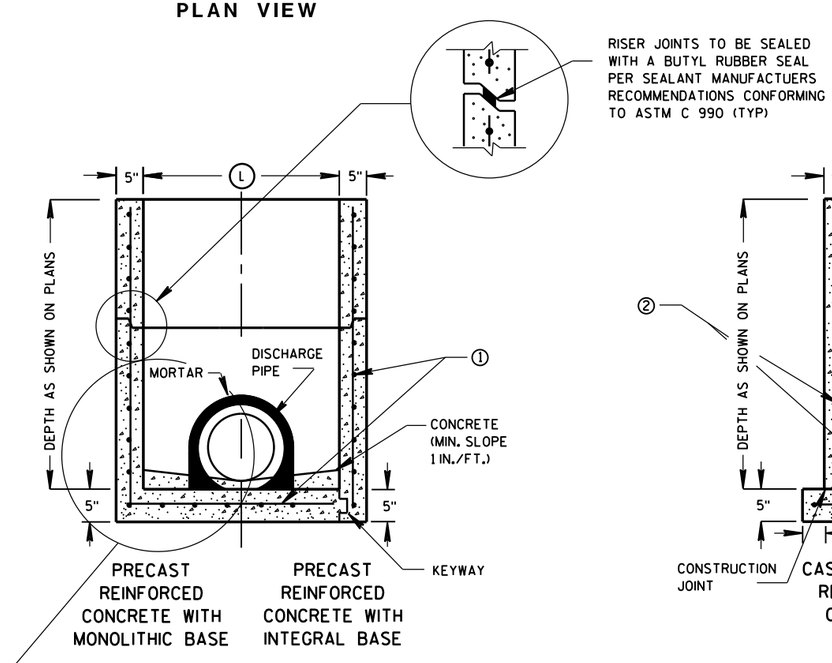
6
S.D.D. 8 C 6-1



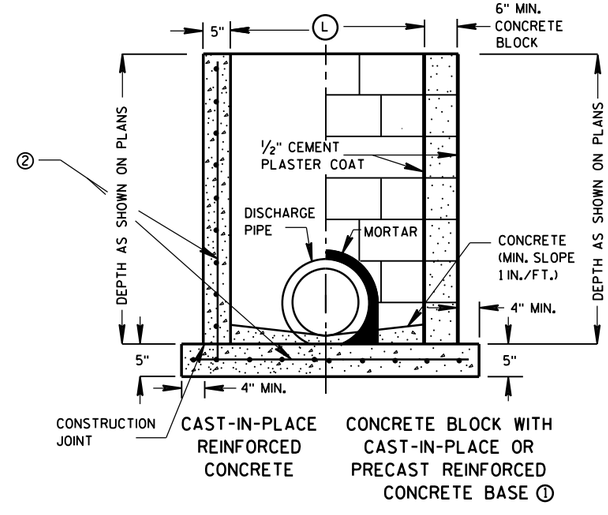
PLAN VIEW



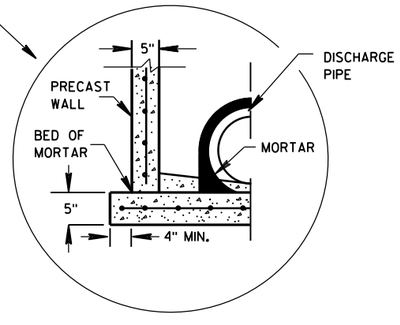
PLAN VIEW



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 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 PRECAST INLET 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 GRANULAR 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 INCH 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.

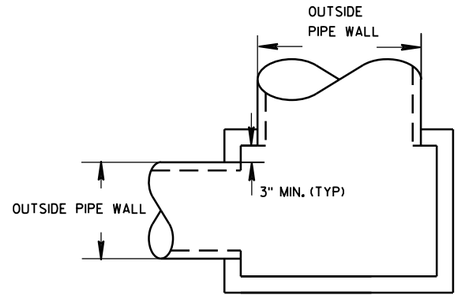
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



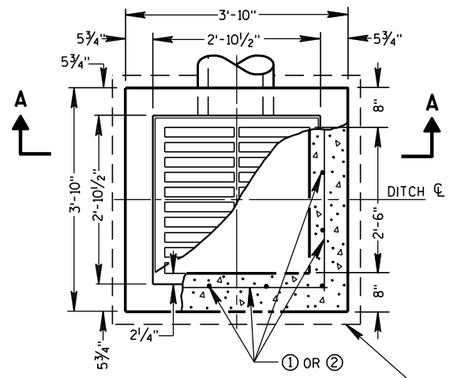
DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

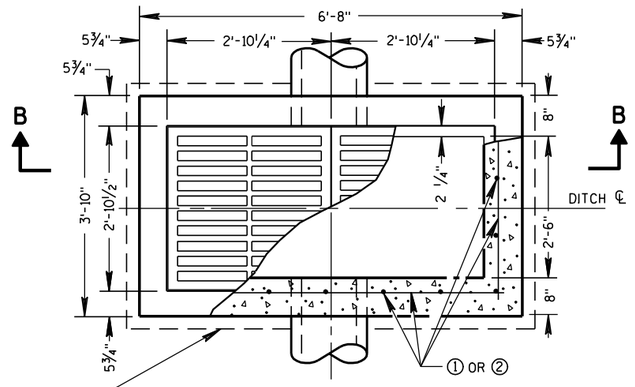
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DE ENGINEER
FHWA

6
S.D.D. 8 C 7-1

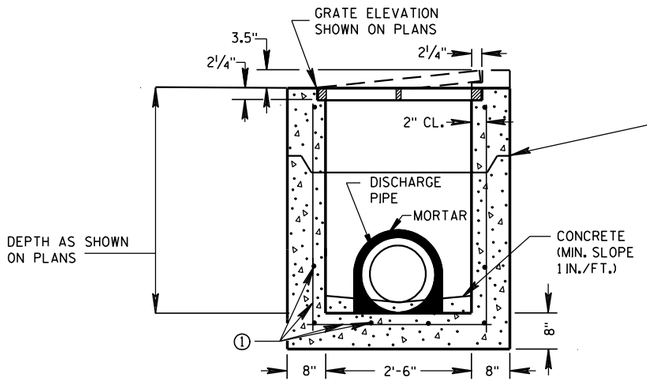


PLAN VIEW

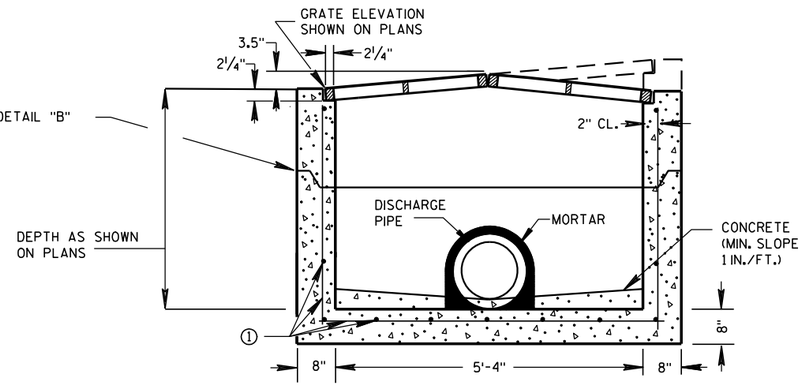


PLAN VIEW

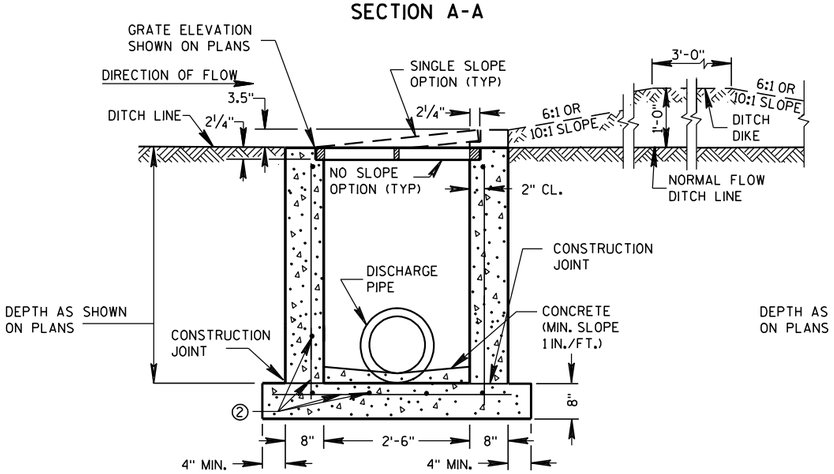
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



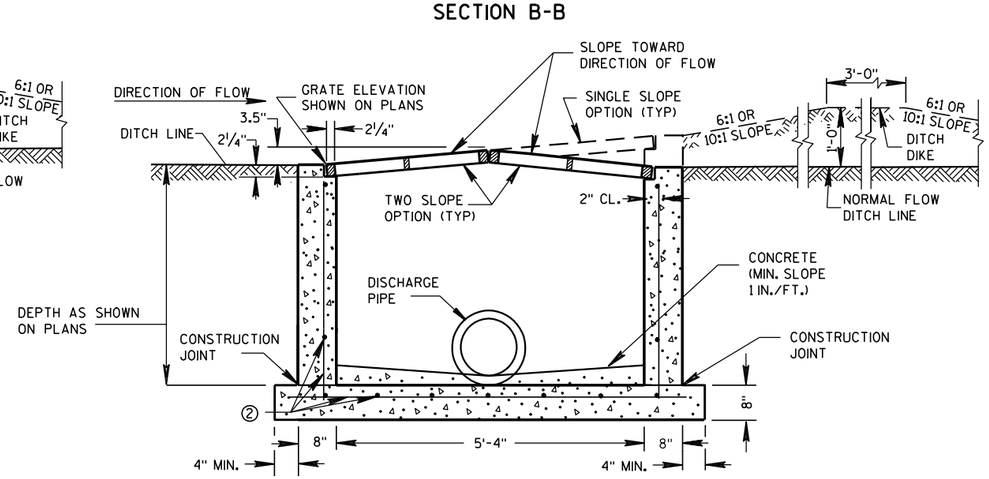
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE 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.

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.

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.

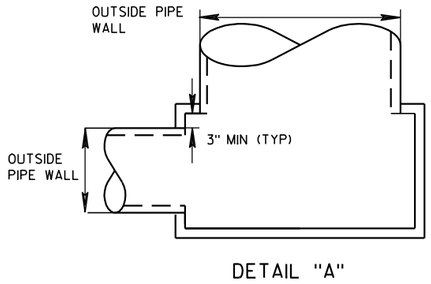
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

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.

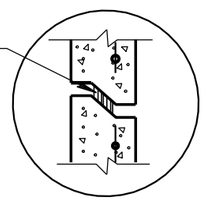
PIPE MATRIX

	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 GRATE

INLETS MEDIAN 2 GRATE

INLETS MEDIAN 1 AND 2 GRATE

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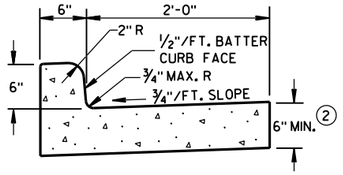
APPROVED

6/5/2012
DATE

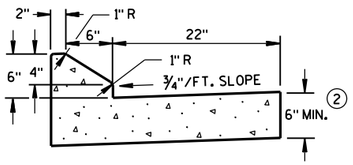
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

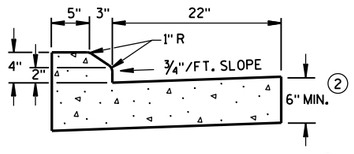
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S.D.D. 8 C 8-1



TYPES A & D ①

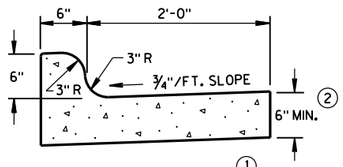


6" SLOPED CURB TYPES G & J ①

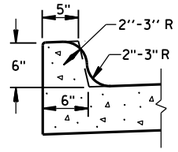


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

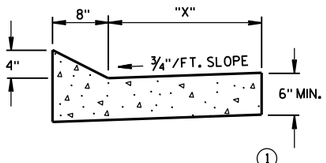


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

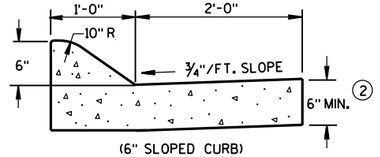
CONCRETE CURB & GUTTER 30"



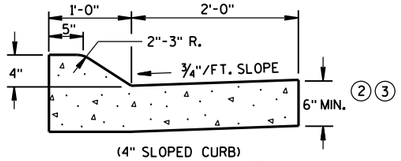
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

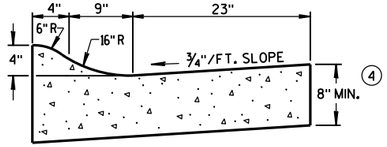


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ①⑤

CONCRETE CURB & GUTTER 36"

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. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

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.

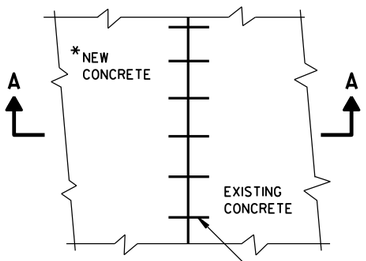
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

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.

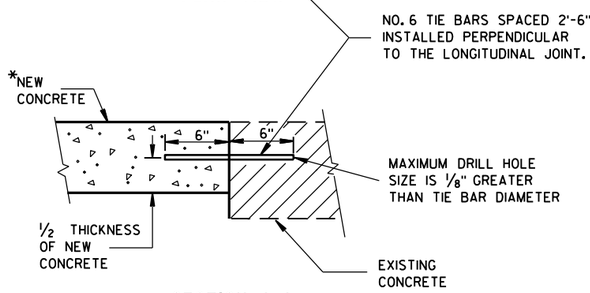
⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



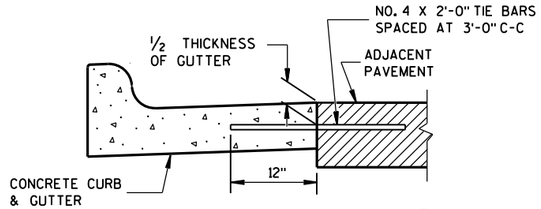
PLAN VIEW

*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

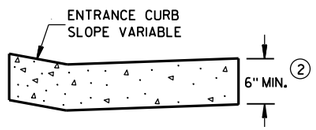


SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT

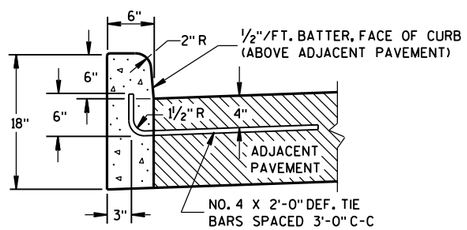


TYPICAL TIE BAR LOCATION ①

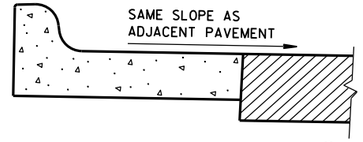


DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

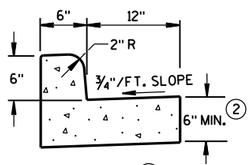


① TYPES A & D



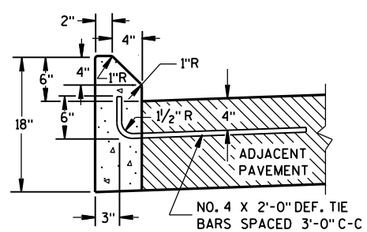
⑥ REVERSE SLOPE GUTTER

(TYPICAL FOR ALL CURB & GUTTER TYPES)



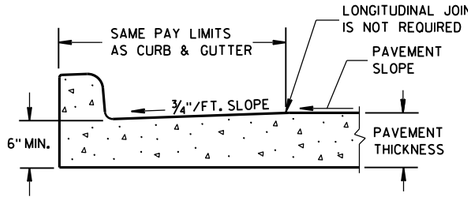
① TYPES A & D

CONCRETE CURB & GUTTER 18"

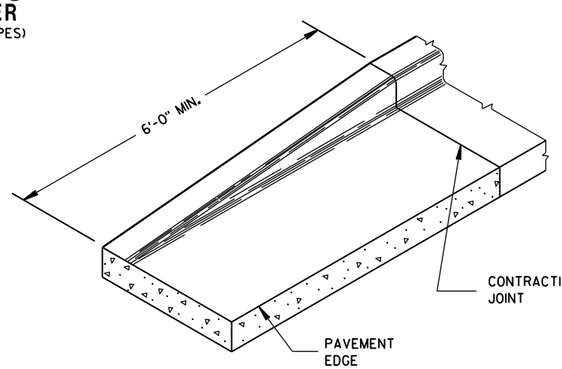


① TYPES G & J

CONCRETE CURB



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

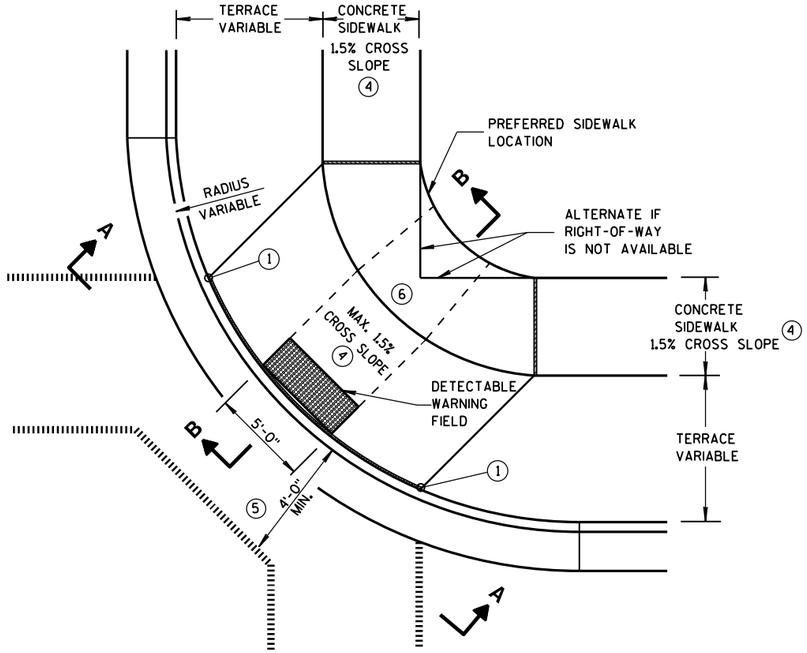
CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2016 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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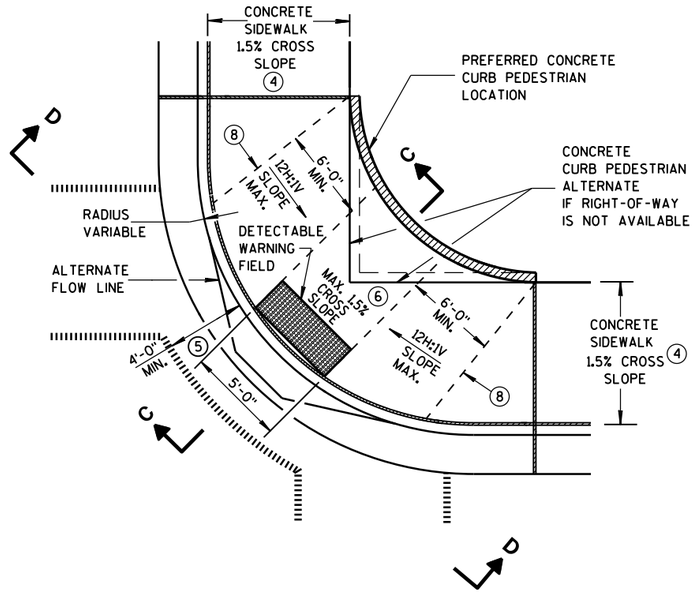
S.D.D. 8 D 1-19



PLAN VIEW

TYPE 1 RAMP

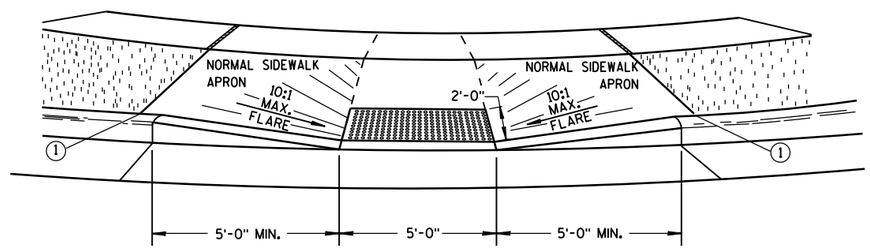
(CENTER OF CORNER RADIUS)



PLAN VIEW

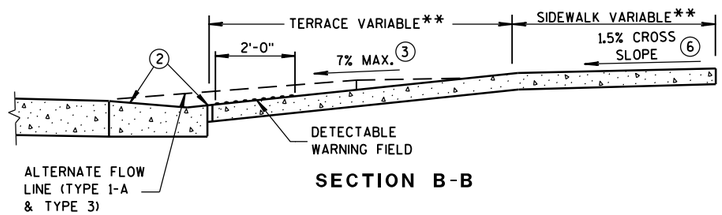
TYPE 1-A RAMP

(NO TERRACE)

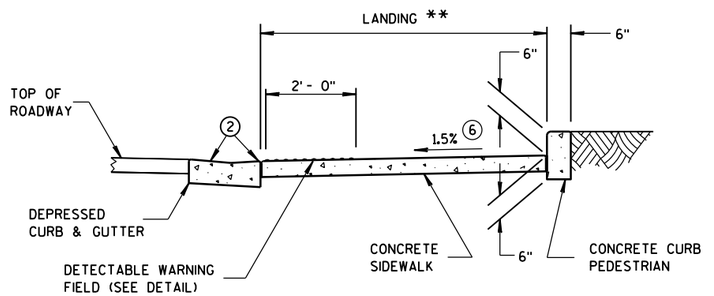


VIEW A-A

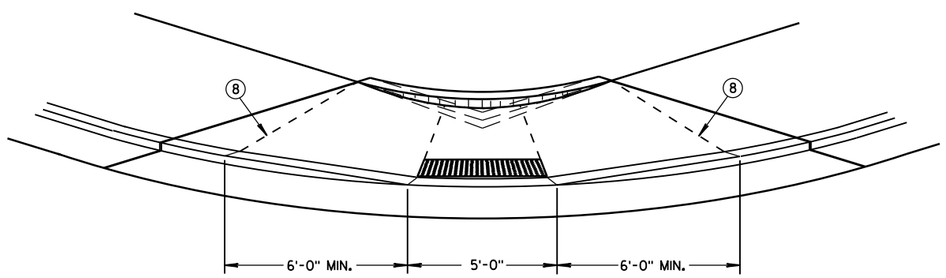
** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B



SECTION C-C



VIEW D-D

GENERAL NOTES

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 NOT EXCEED 7%.

(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 (MINIMUM 4 FEET X 4 FEET).

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

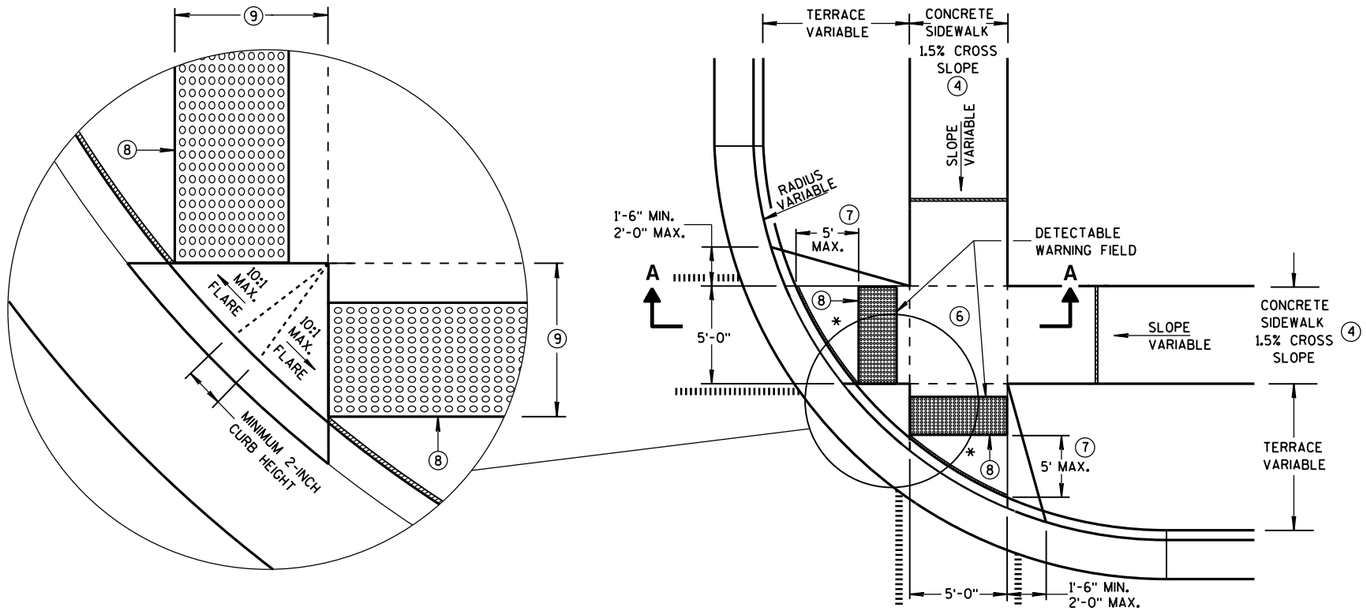
- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 8 D 5-17a

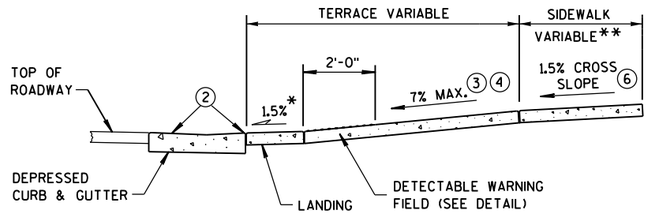


PLAN VIEW

TYPE 2 RAMP

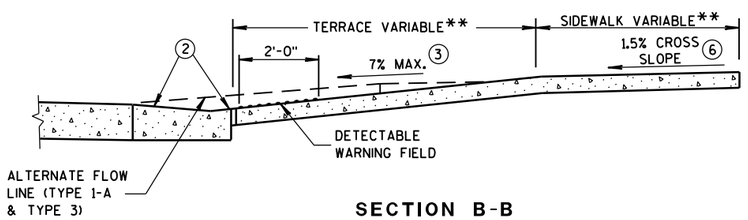
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



SECTION A-A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B

GENERAL NOTES

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 NOT EXCEED 7%.

(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 (MINIMUM 4 FEET X 4 FEET).

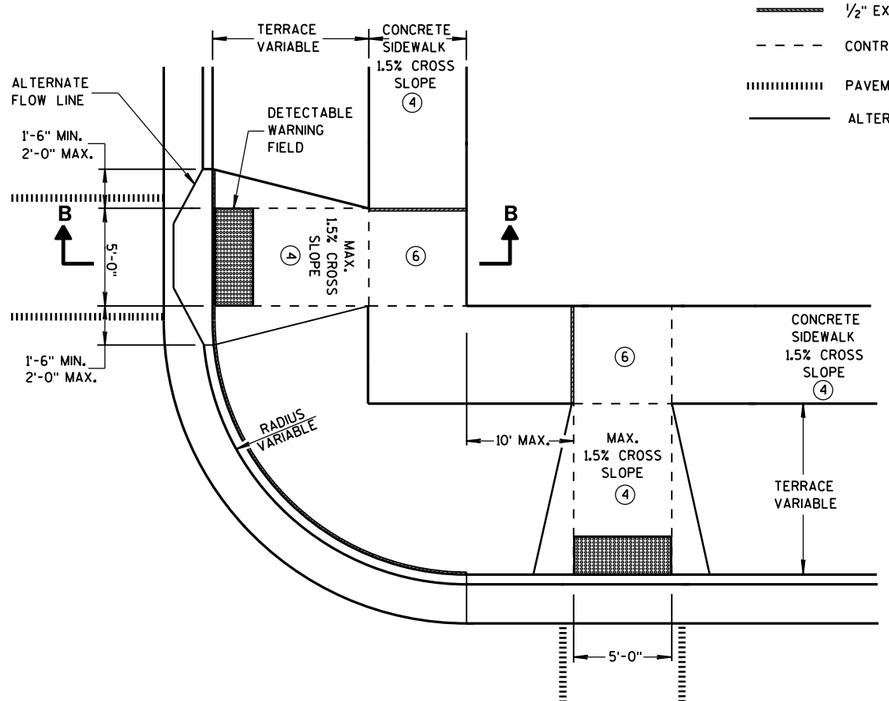
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, STAGGER ADDITIONAL DETECTABLE WARNING PANEL FORWARD TO REDUCE THIS DISTANCE. PROVIDE MINIMUM 12-INCH ROW OVERLAP TO AVOID SIDESTEP OF DOME DETECTION. ALIGN DOMES BETWEEN OVERLAPPING ROWS AND IN DIRECTION OF PEDESTRIAN TRAVEL.

(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.

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



PLAN VIEW

TYPE 3 RAMP

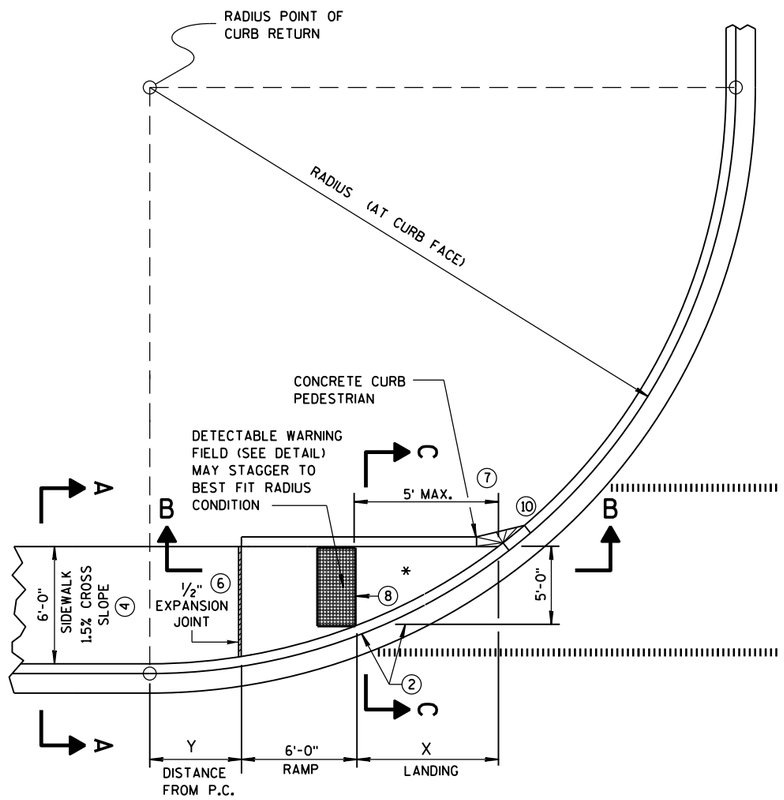
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS TYPES 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

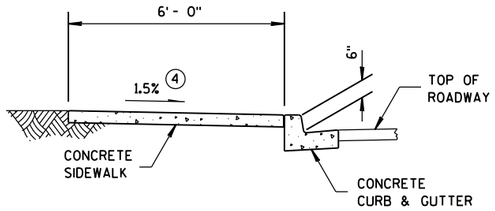
S.D.D. 8 D 5-17b



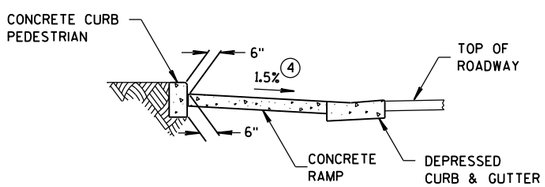
CURB RAMP TYPE 4A
PLAN VIEW

RADIUS (AT CURB FACE)	X	Y
20 FEET	7'-11"	0'-2"
30 FEET	10'-2¾"	1'-7½"
40 FEET	12'-1¼"	2'-10"
50 FEET	13'-8¾"	3'-10¾"
60 FEET	15'-2"	4'-10¼"

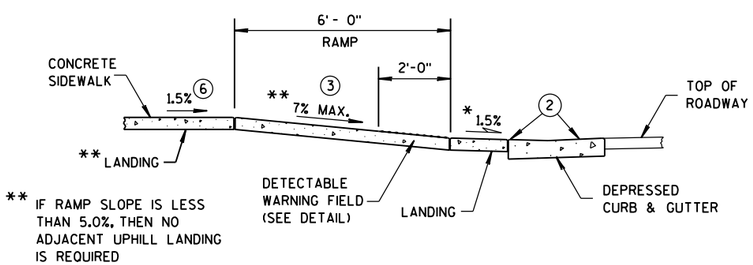
INTERMEDIATE RADII CAN BE INTERPOLATED



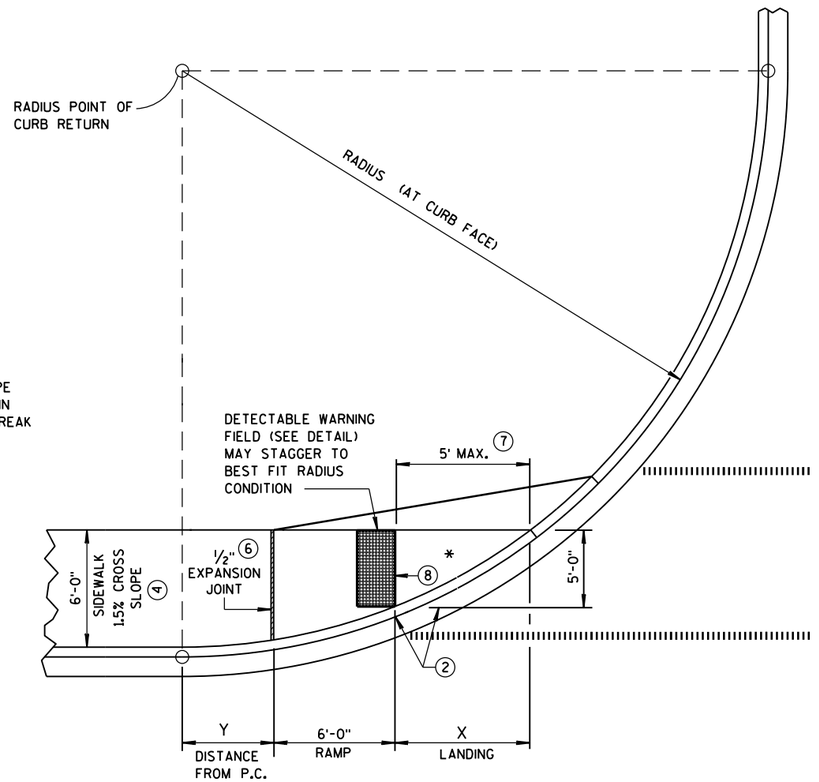
SECTION A-A FOR TYPE 4A



SECTION C-C FOR TYPE 4A



SECTION B-B FOR TYPE 4A



* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

CURB RAMP TYPE 4A1
PLAN VIEW

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 NOT EXCEED 7%.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

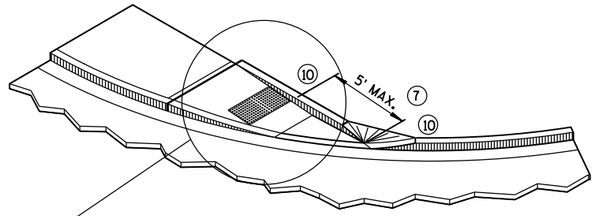
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

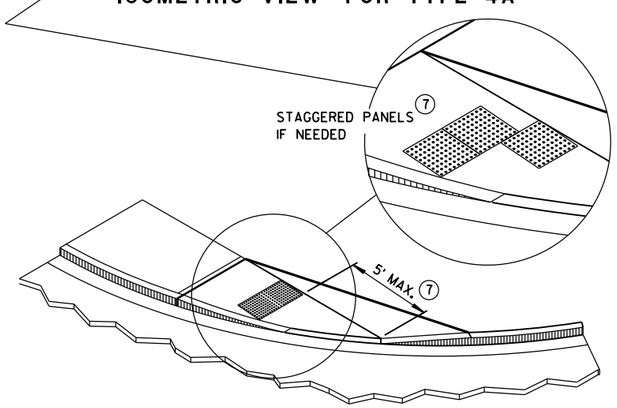
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, STAGGER ADDITIONAL DETECTABLE WARNING PANEL FORWARD TO REDUCE THIS DISTANCE. PROVIDE MINIMUM 12-INCH ROW OVERLAP TO AVOID SIDESTEP OF DOME DETECTION. ALIGN DOMES BETWEEN OVERLAPPING ROWS AND IN DIRECTION OF PEDESTRIAN TRAVEL.

(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



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

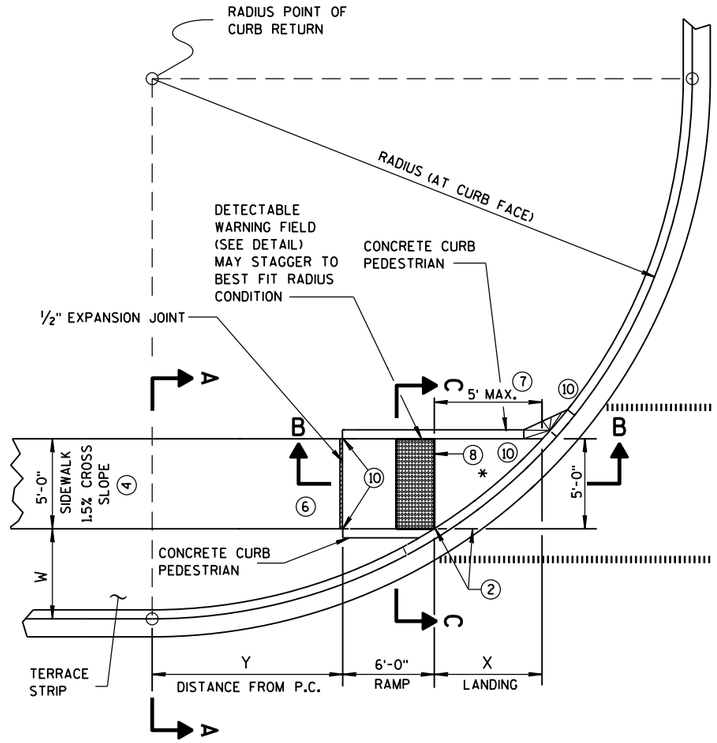
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 4A AND 4A1

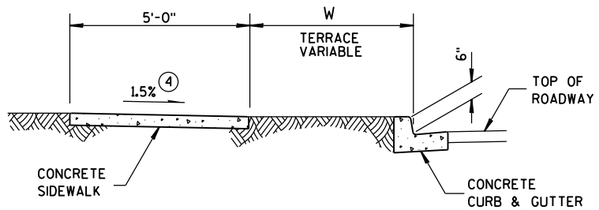
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

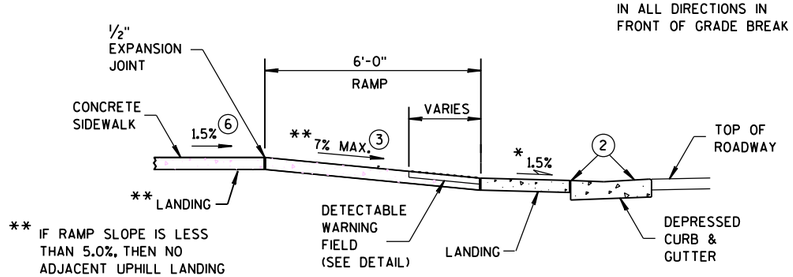
S.D.D. 8 D 5-17c



CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



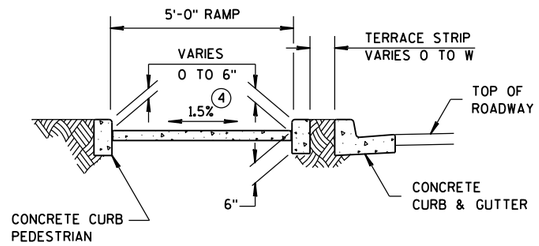
SECTION B-B FOR TYPE 4B

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)



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"	
	X	Y	X	Y	X	Y	X	Y	X	Y
20 FEET	5'-9¾"	3'-6½"	4'-11½"	5'-1¾"	4'-3¼"	6'-5½"	3'-8¾"	7'-6¾"	3'-3"	8'-6¼"
30 FEET	7'-9¼"	5'-10½"	6'-9½"	7'-11¼"	6'-0¼"	9'-8"	5'-5"	11'-1¾"	4'-10¾"	12'-5¾"
40 FEET	9'-4"	7'-10"	8'-2¾"	10'-3"	7'-4¾"	12'-3¾"	6'-8½"	14'-1¼"	6'-1¾"	15'-8½"
50 FEET	10'-8"	9'-6½"	9'-5½"	12'-3¼"	8'-6½"	14'-7½"	7'-9¾"	16'-8¼"	7'-2½"	18'-6¼"
60 FEET	11'-10¼"	11'-0¾"	10'-6½"	14'-1¼"	9'-6½"	16'-8½"	8'-9¼"	18'-11¾"	8'-1½"	21'-0½"

INTERMEDIATE RADII CAN BE INTERPOLATED

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 NOT EXCEED 7%.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

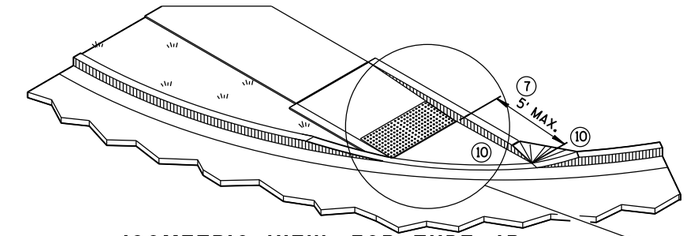
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

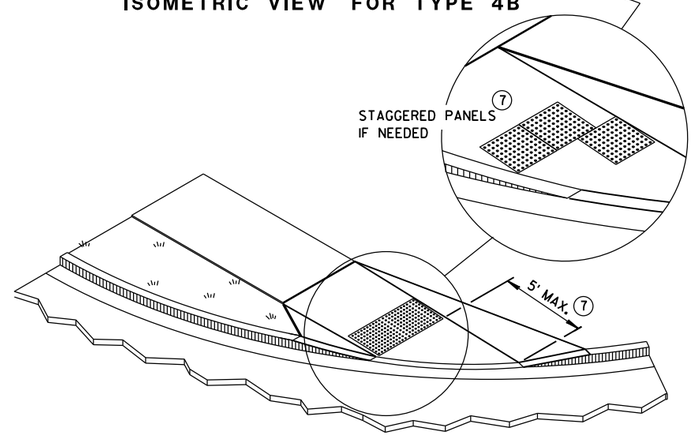
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, STAGGER ADDITIONAL DETECTABLE WARNING PANEL FORWARD TO REDUCE THIS DISTANCE. PROVIDE MINIMUM 12-INCH ROW OVERLAP TO AVOID SIDESTEP OF DOME DETECTION. ALIGN DOMES BETWEEN OVERLAPPING ROWS AND IN DIRECTION OF PEDESTRIAN TRAVEL.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

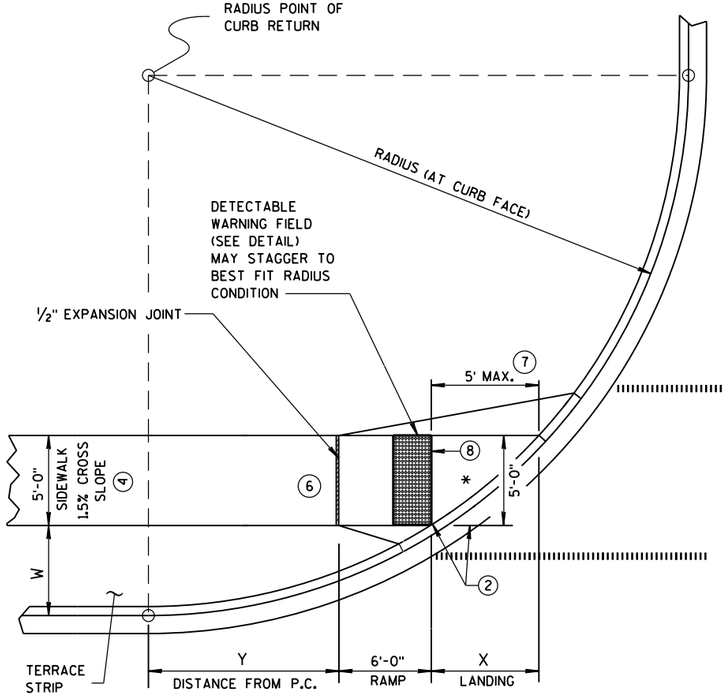
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1



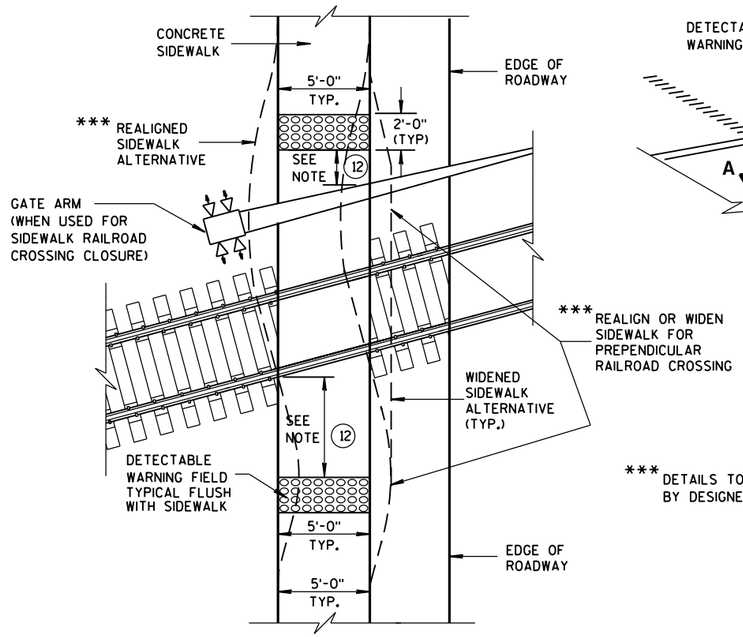
CURB RAMP TYPE 4B1
PLAN VIEW

CURB RAMPS
TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

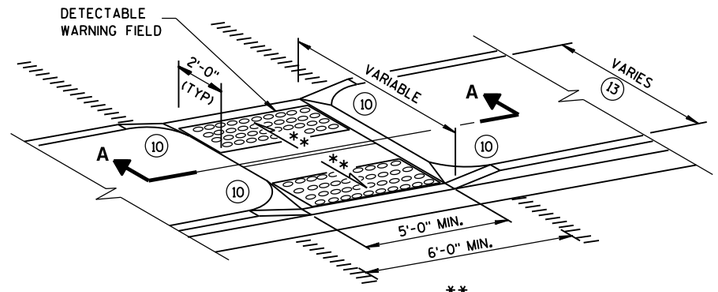
6

S.D.D. 8 D 5-17d



*** DETAILS TO BE DETERMINED BY DESIGNER

TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING



** 1% MIN. (PROVIDE DRAINAGE)

MEDIAN ISLAND NON-ELEVATED CROSSING
TYPE 5

GENERAL NOTES

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 NOT EXCEED 7%.

(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.

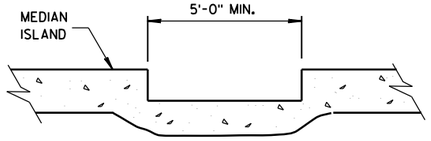
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

(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.

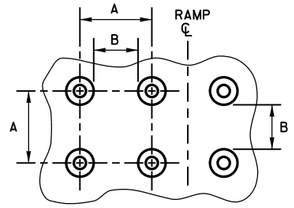
(13) DO NOT INSTALL DETECTABLE WARNING FIELDS IF MEDIAN WIDTH BETWEEN BACK OF CURBS IS LESS THAN 6 FEET.



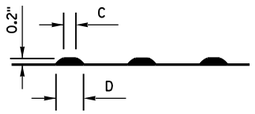
SECTION A-A

	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.

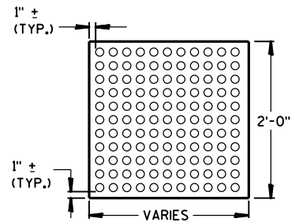


PLAN VIEW

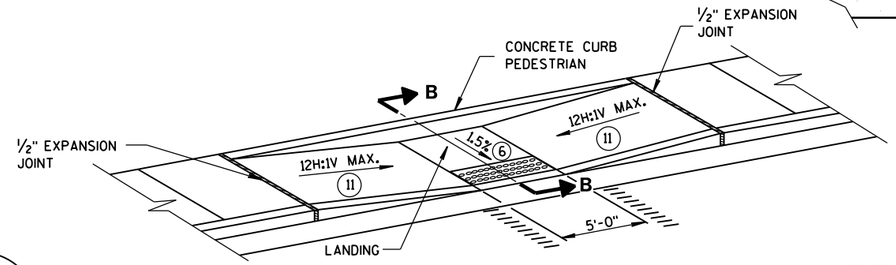


ELEVATION VIEW

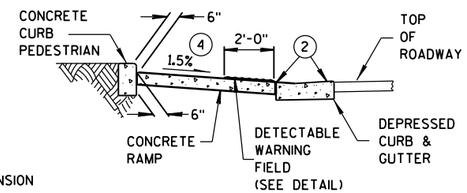
TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



PLAN VIEW
DETECTABLE WARNING FIELD (TYPICAL)

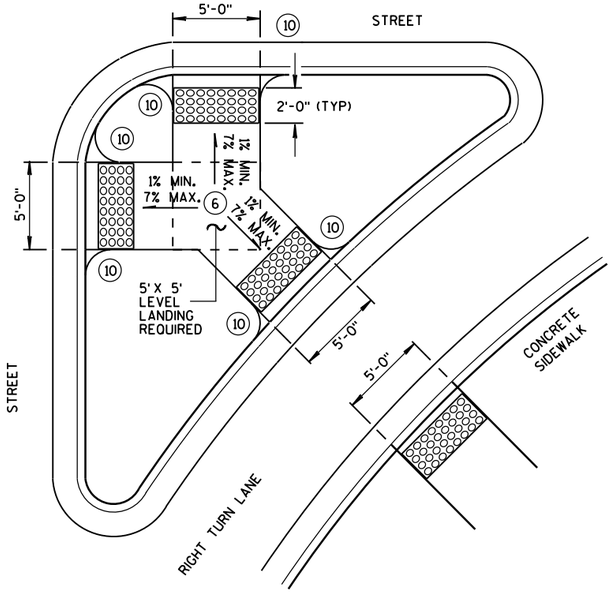


MID-BLOCK CROSSING
TYPE 7A

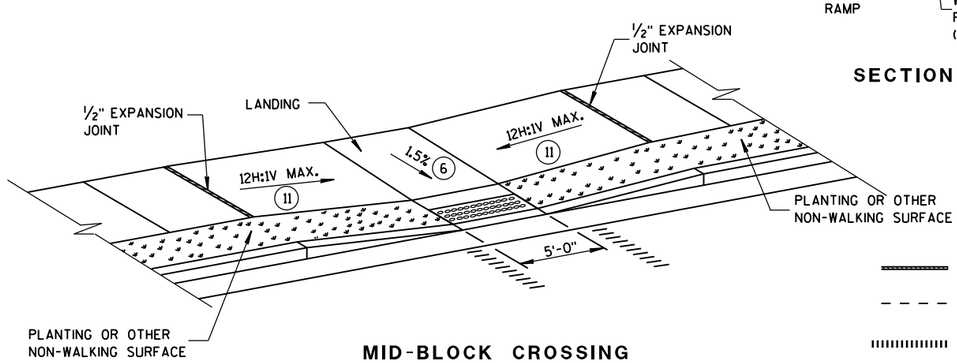


SECTION B-B

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

- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

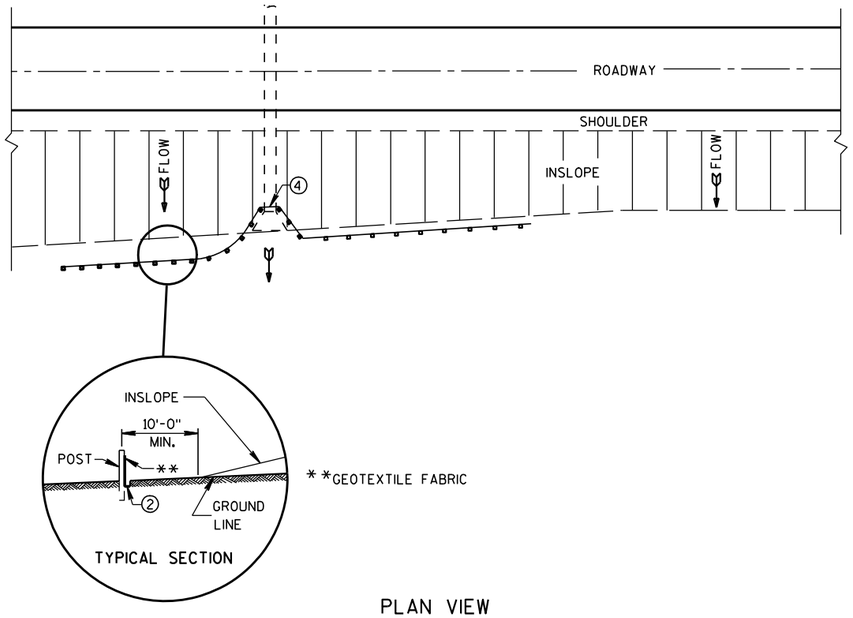
CURB RAMPS TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2016 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

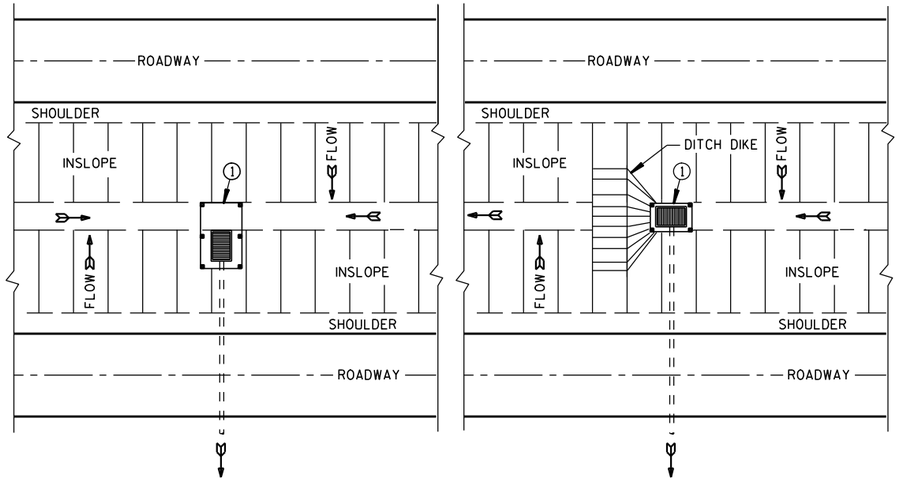
6

S.D.D. 8 D 5-17e



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.

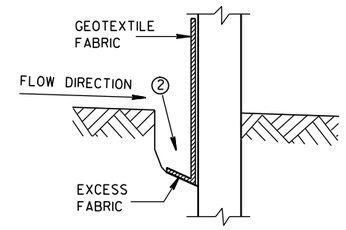
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

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.

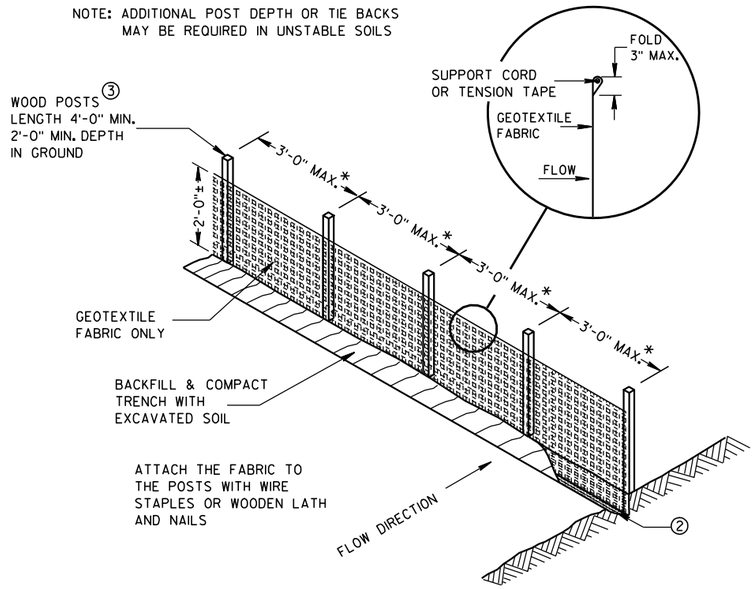
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

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.

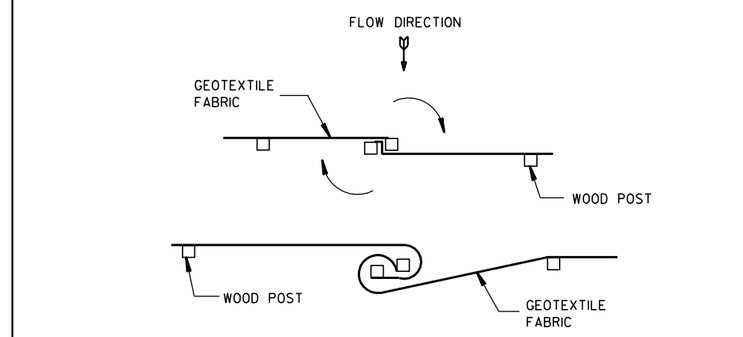


TRENCH DETAIL

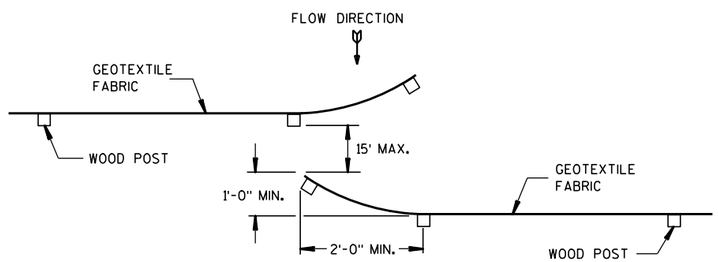


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

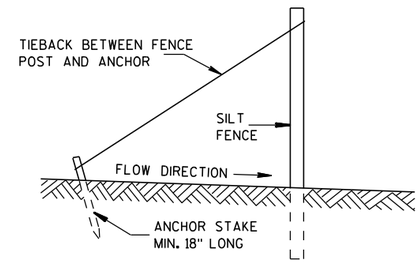


TWIST METHOD



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

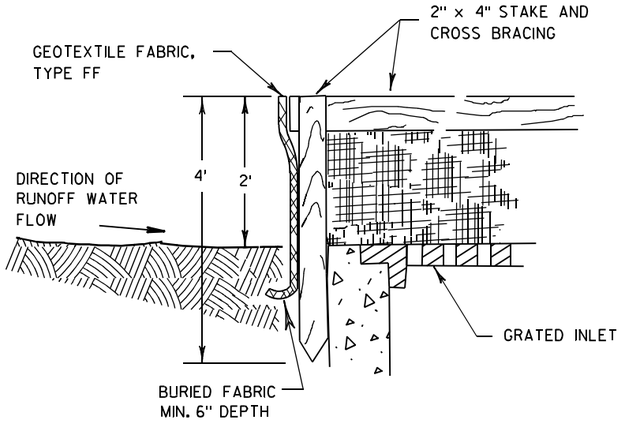
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

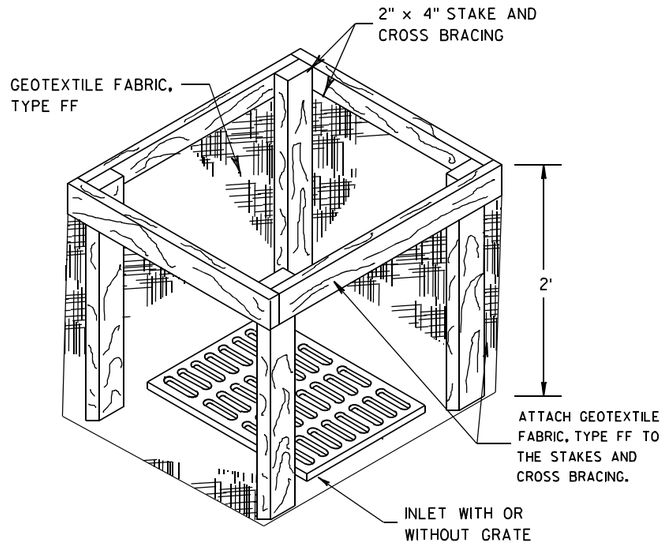
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S.D.D. 8 E 9-6

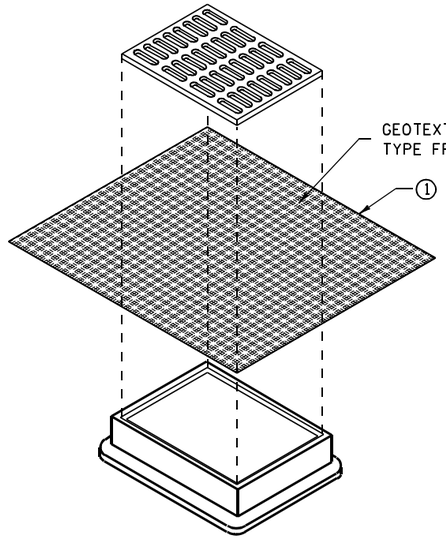
6

S.D.D. 8 E 9-6



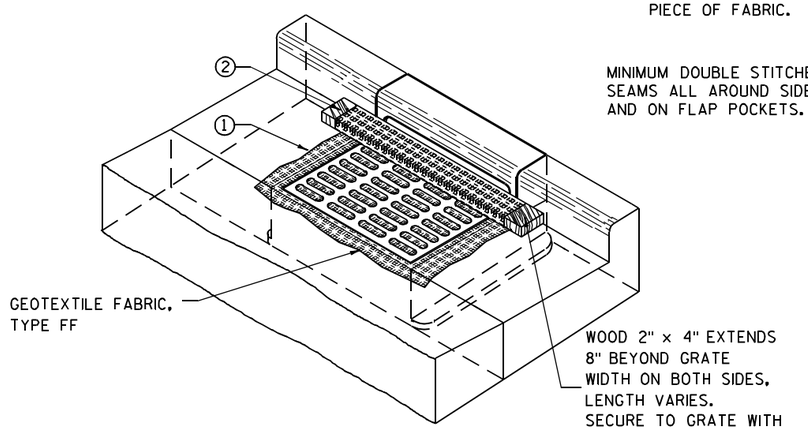


INLET PROTECTION, TYPE A

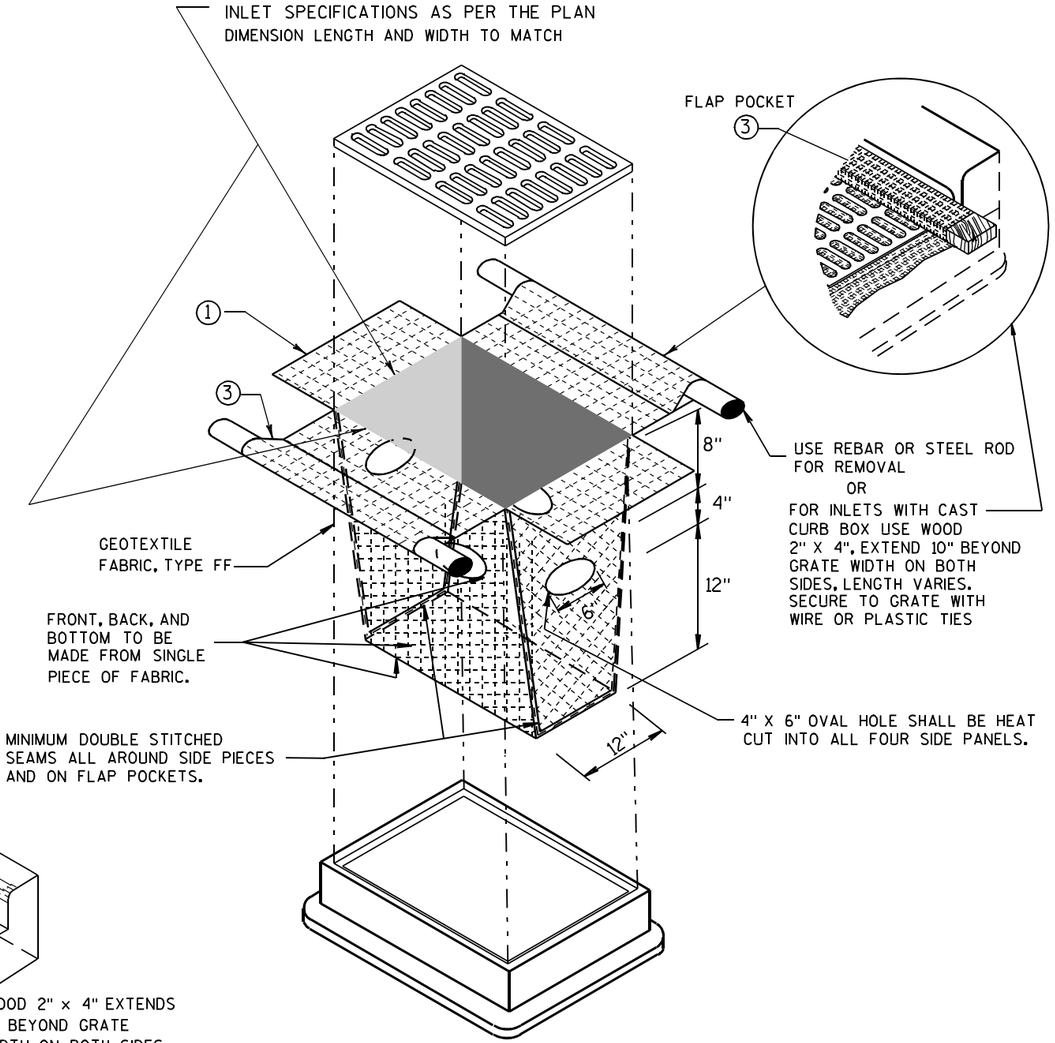


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

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.

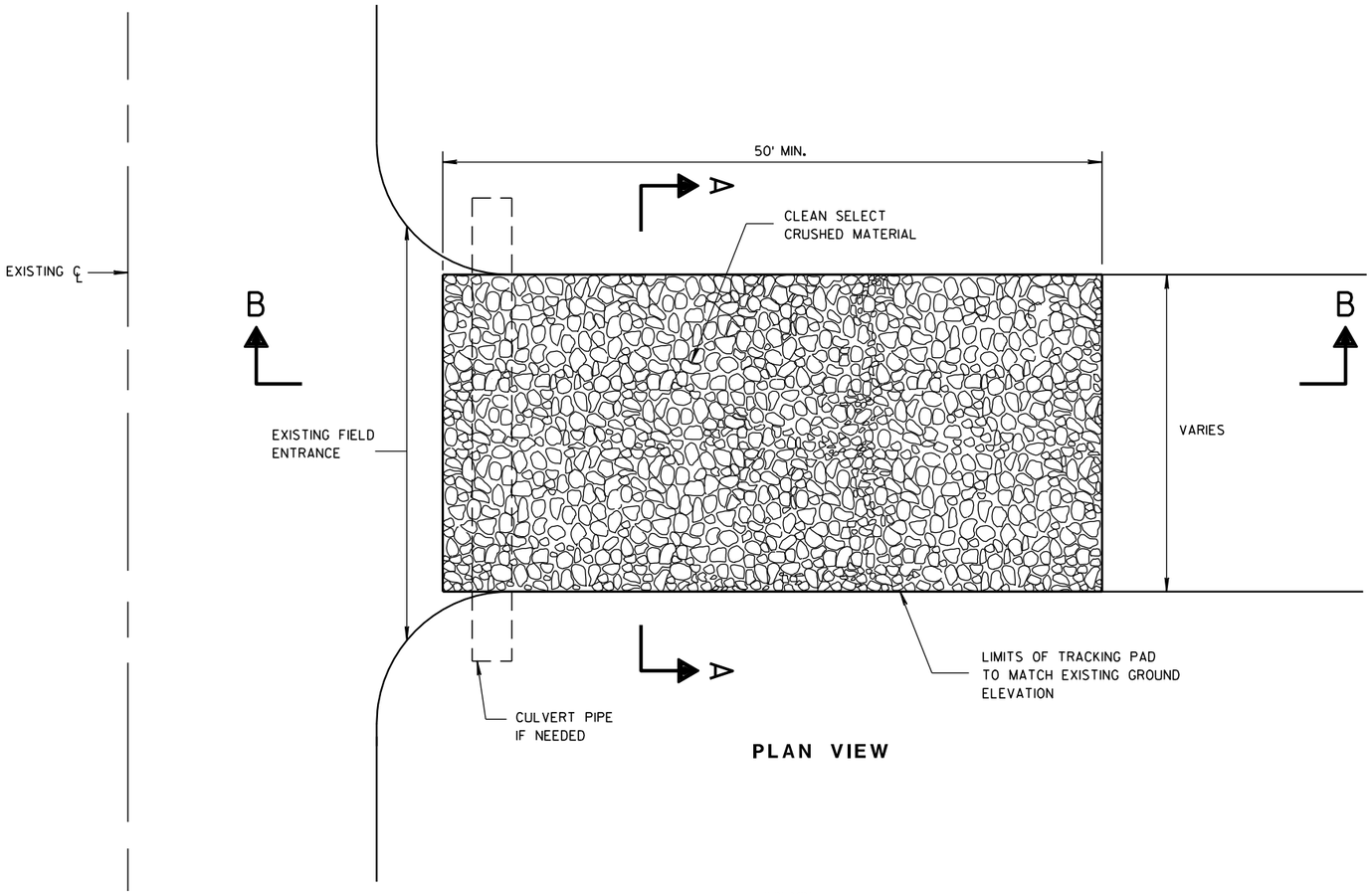
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

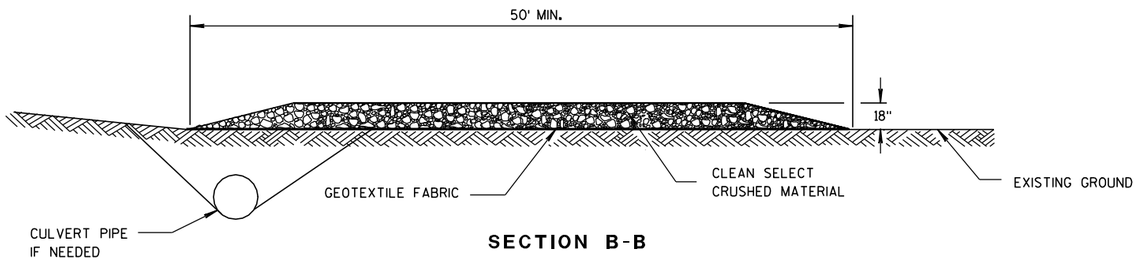
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
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.

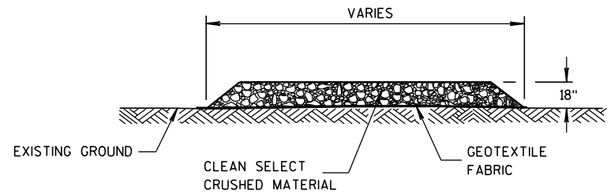
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

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

6

S.D.D. 8 E 14-1

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/24/2011	/S/ Jerry H. Zoda	
DATE	ROADWAY STANDARDS ENGINEER	ENT

FHWA

6

S.D.D. 8 E 14-1

METAL APRON ENDWALLS

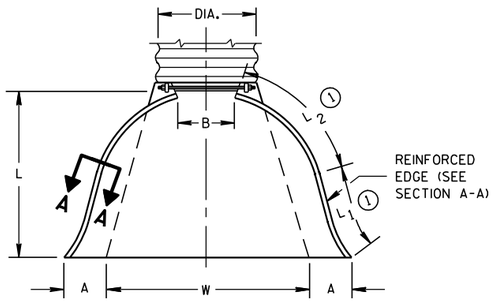
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	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

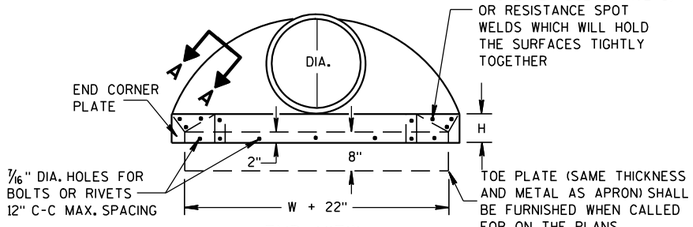
REINFORCED CONCRETE APRON ENDWALLS

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

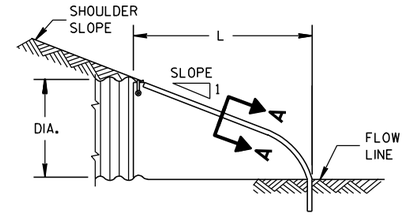
* MINIMUM
** MAXIMUM



PLAN VIEW

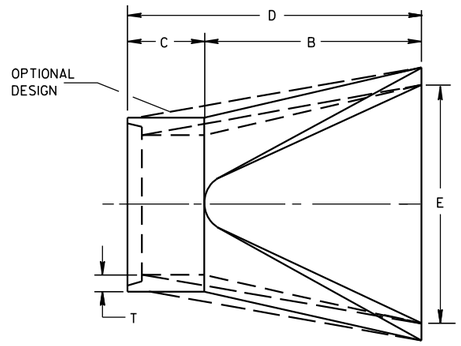


END VIEW

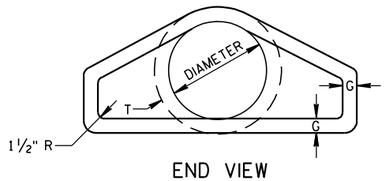


SIDE ELEVATION

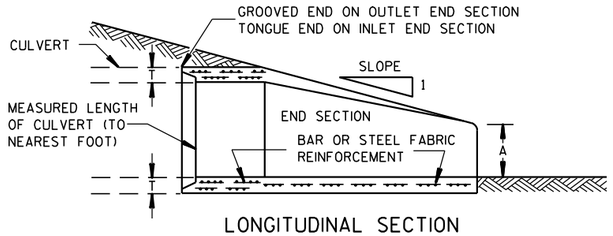
METAL ENDWALLS



PLAN

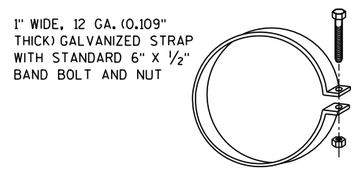


END VIEW



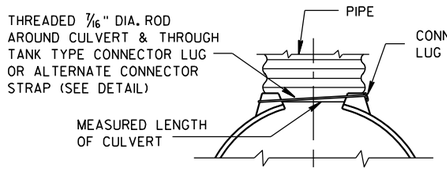
LONGITUDINAL SECTION

CONCRETE ENDWALLS

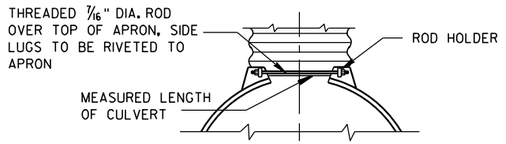


ALTERNATE FOR TYPE 1 CONNECTION

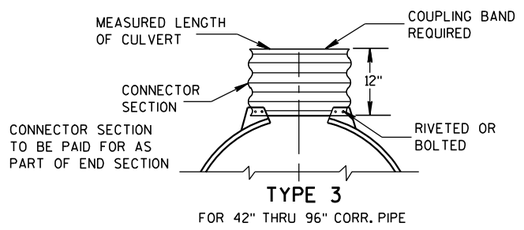
END SECTION CONNECTOR STRAP



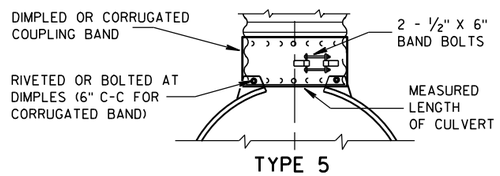
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

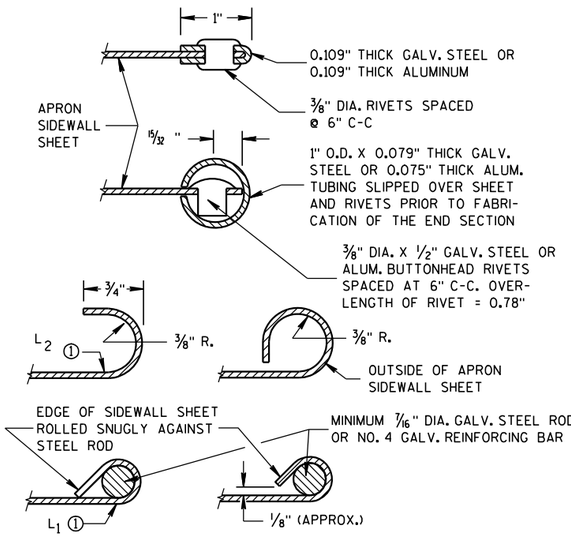
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

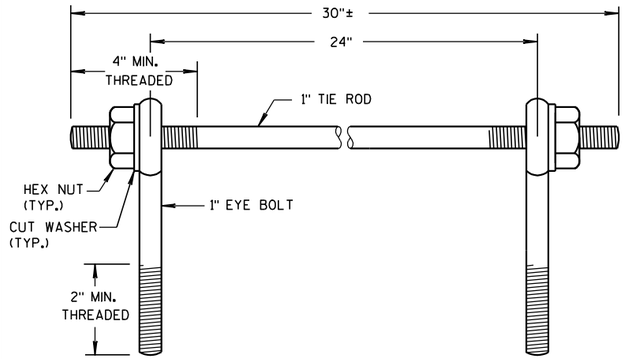
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

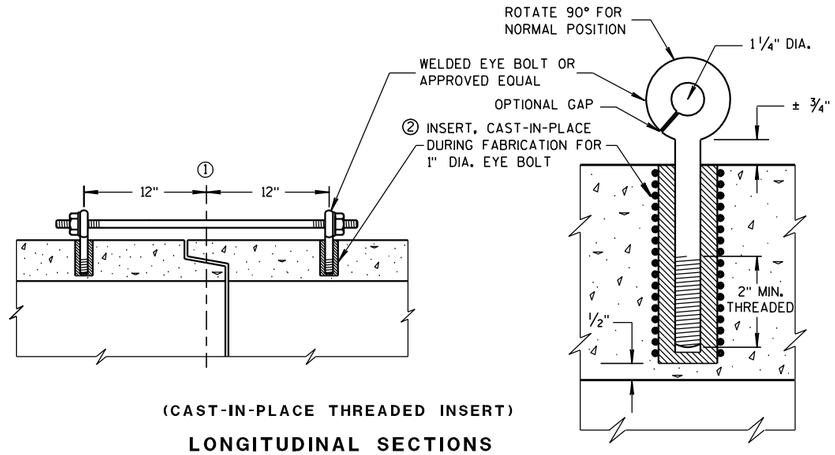
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 F 1-11



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.

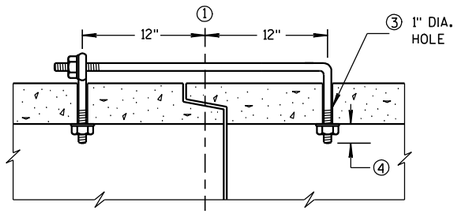
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

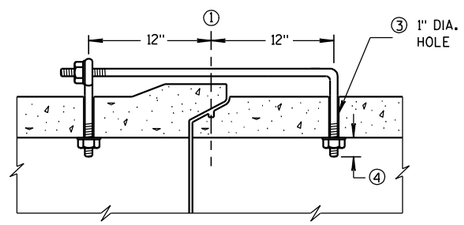
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

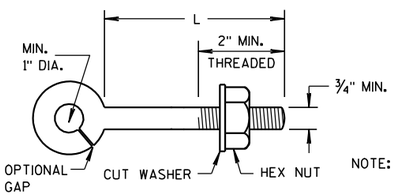


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

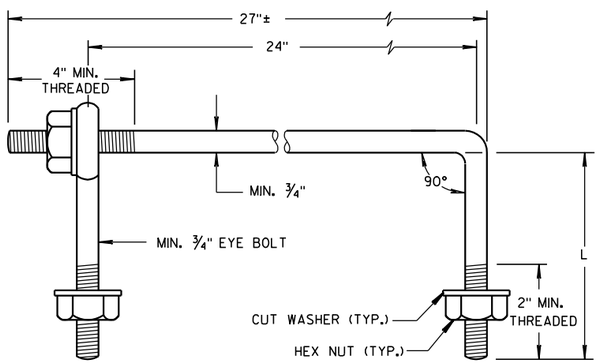
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

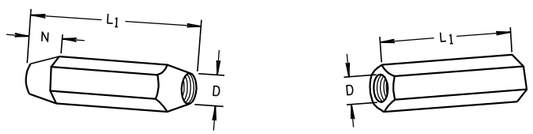
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

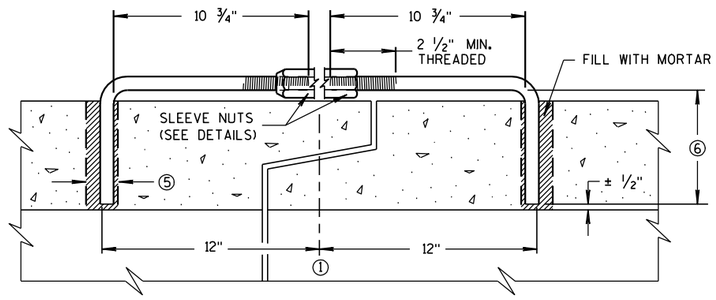
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

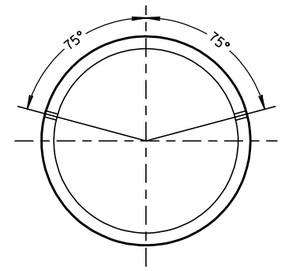
SLEEVE NUTS



LONGITUDINAL SECTION

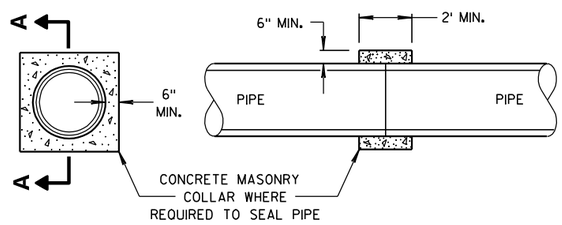
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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

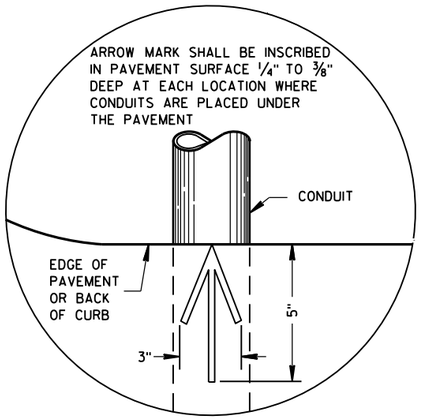
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 8 F 4-7

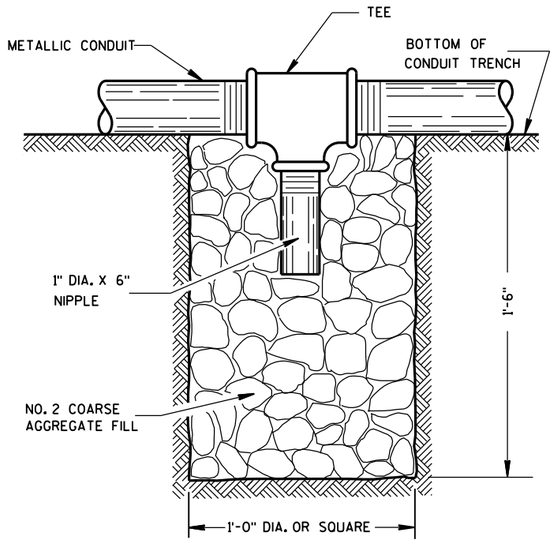
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S.D.D. 8 F 4-7



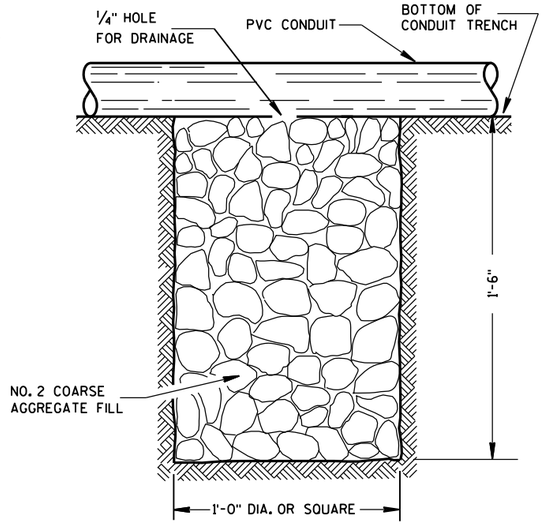
PLAN VIEW

ARROW MARK



NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT



NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

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.

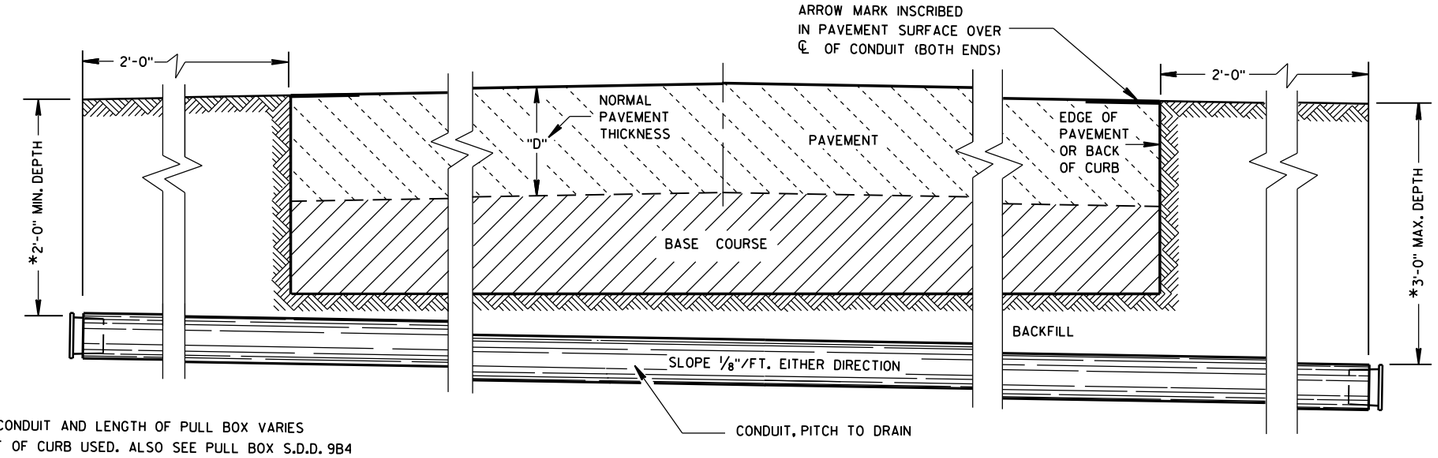
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

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.



*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

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 9 B 2-9

6

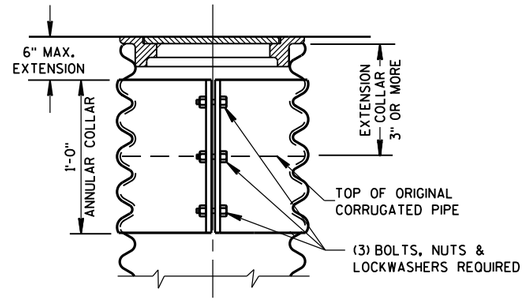
S.D.D. 9 B 2-9

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

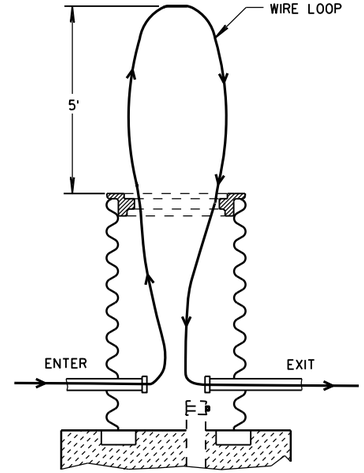
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	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.

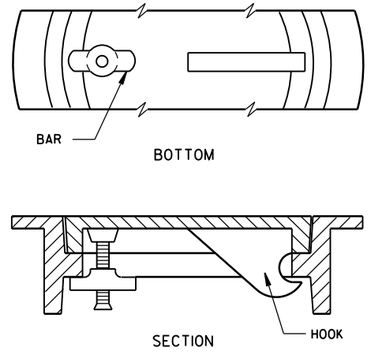
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

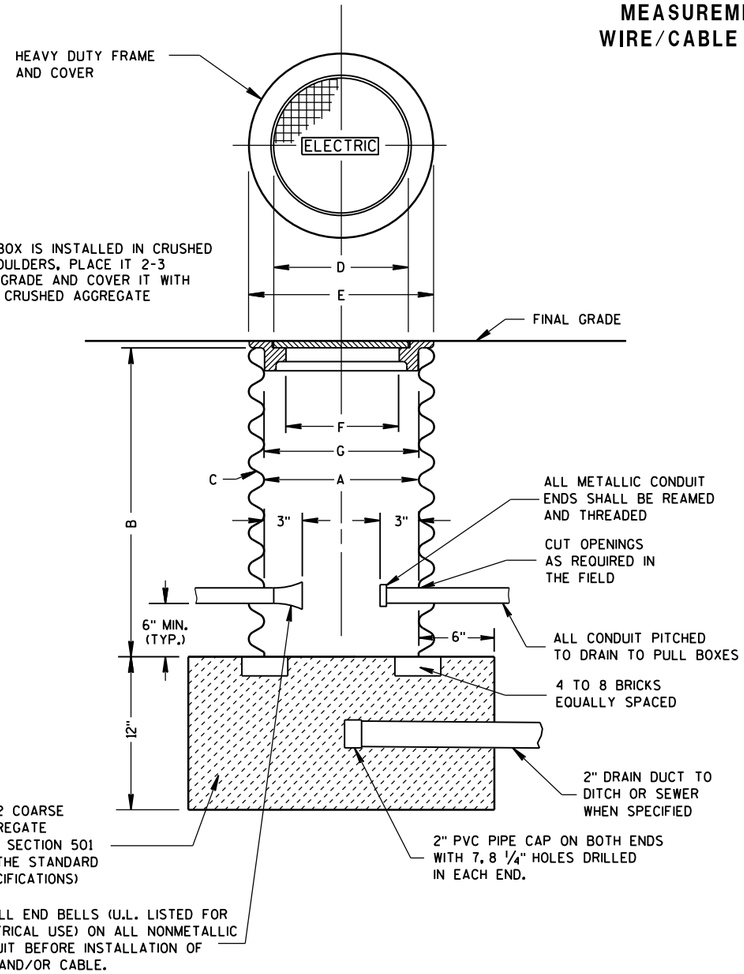


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



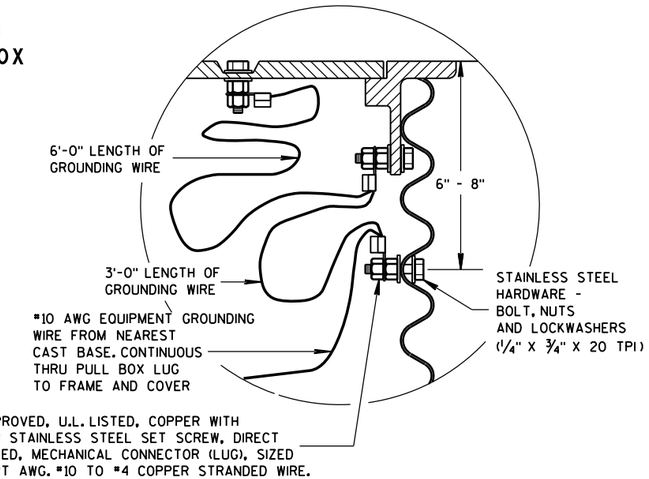
ALTERNATE COVER (LOCKING)

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.

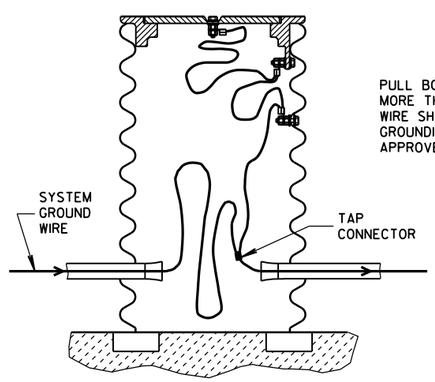
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

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

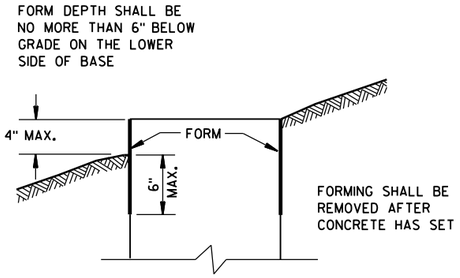
PULL BOX

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.

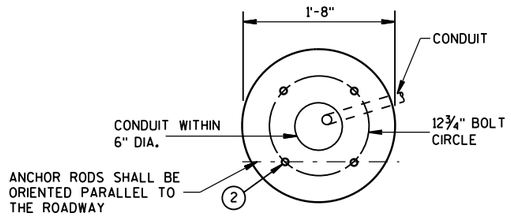
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

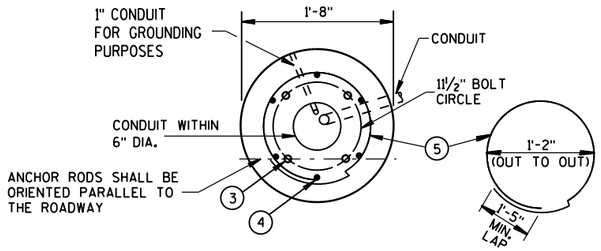
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

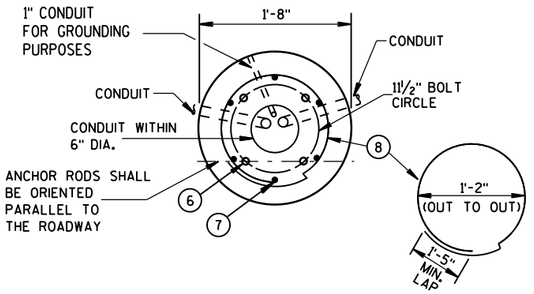
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.

(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

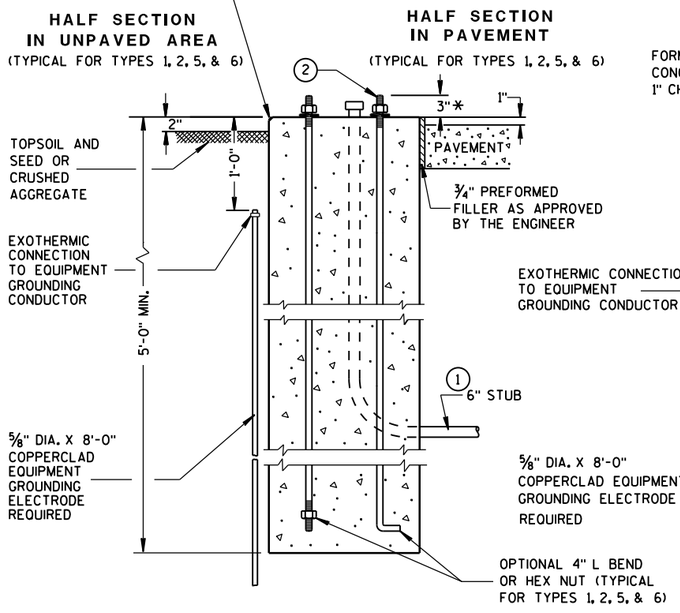


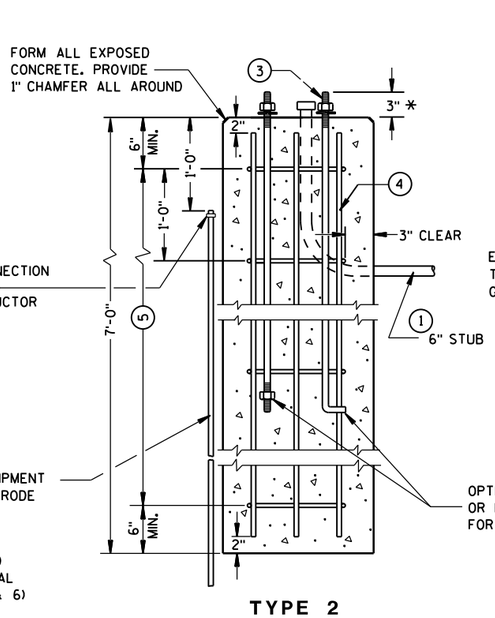




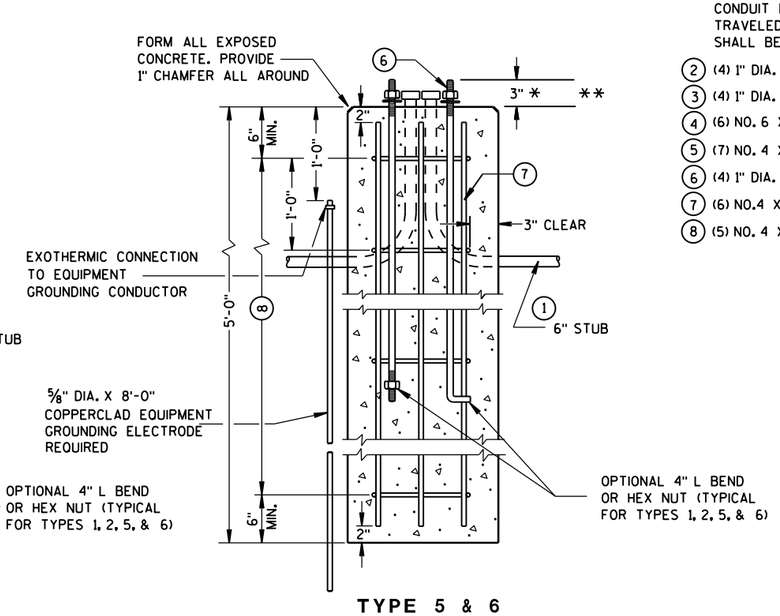
HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5, & 6)

HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5, & 6)





TYPE 2



TYPE 5 & 6

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
FHWA

6

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.

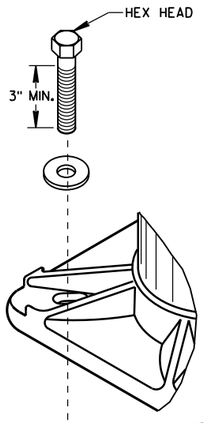
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

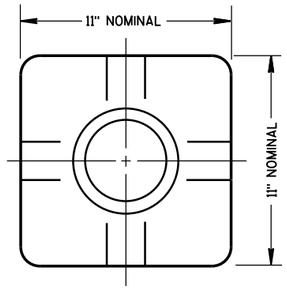
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

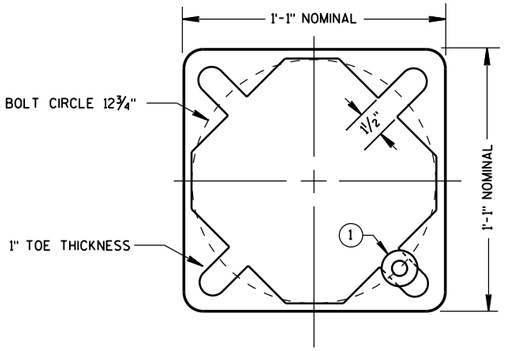
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

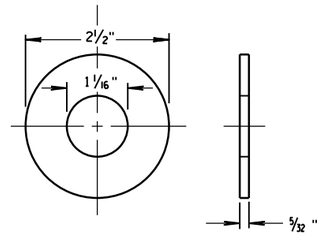




TOP VIEW
(PEDESTAL BASE)

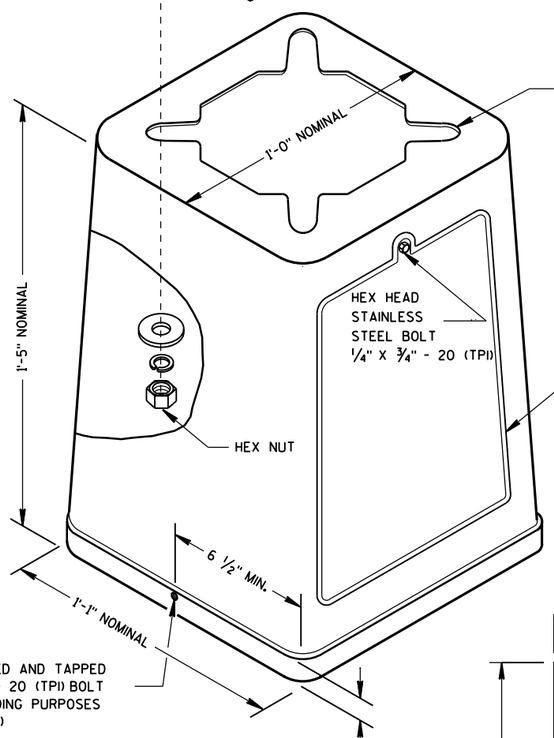


BOTTOM VIEW
(PEDESTAL BASE)

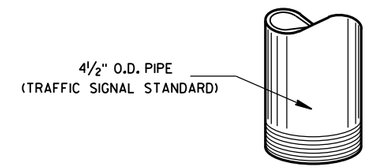


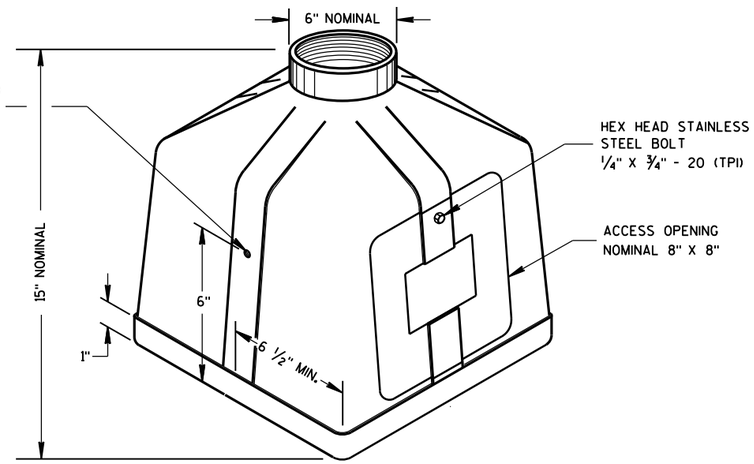
ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)



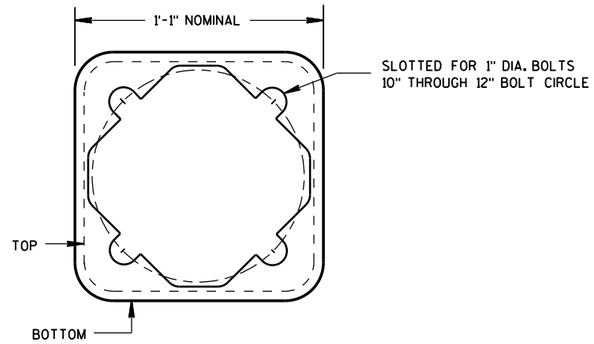
ISOMETRIC VIEW



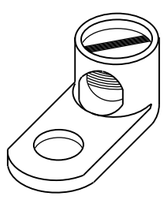


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

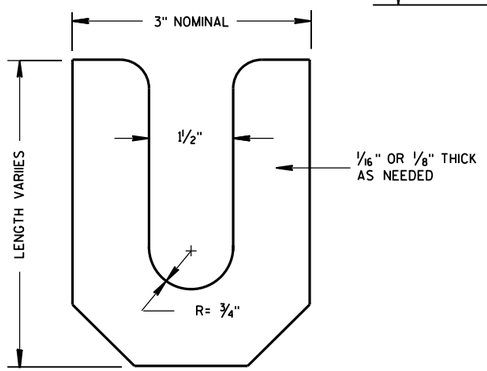


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

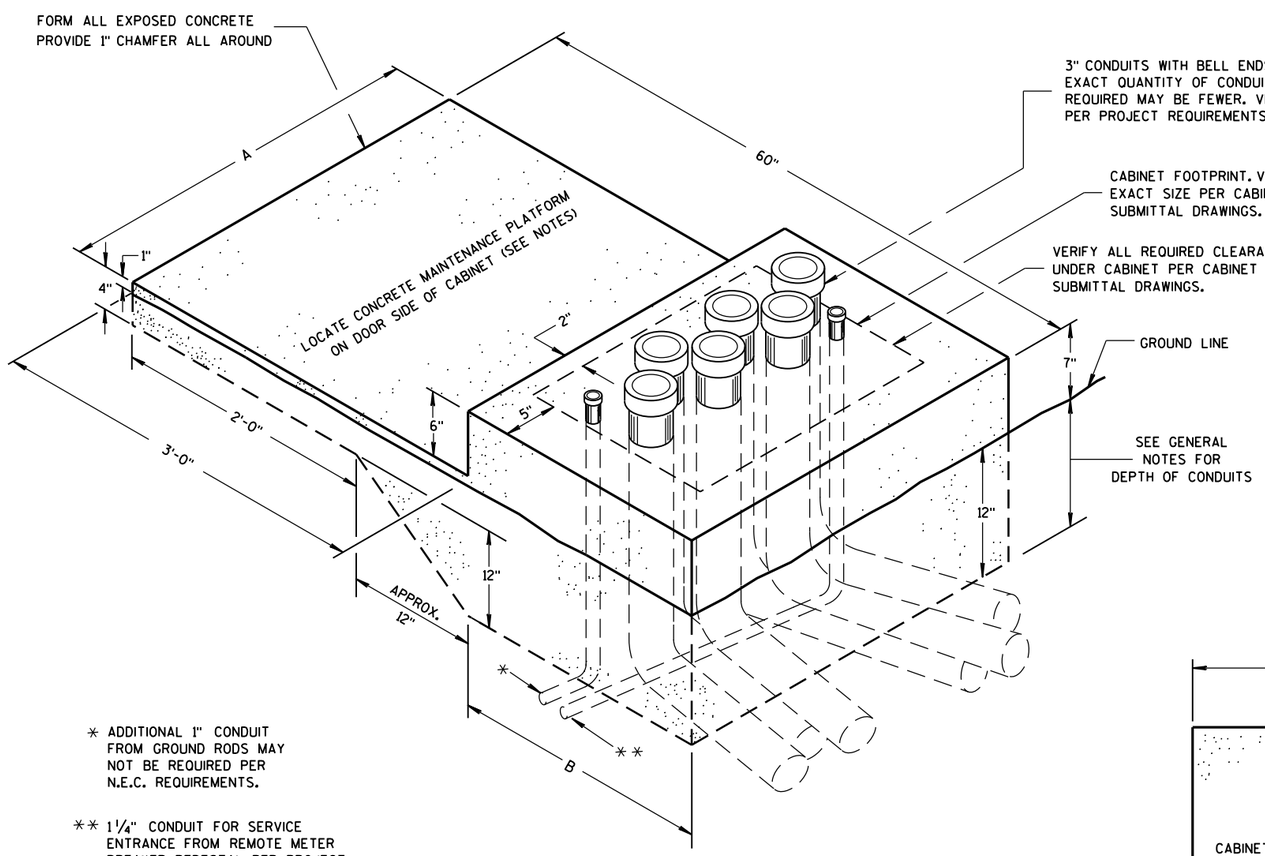
TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 C 3-4



* ADDITIONAL 1" CONDUIT FROM GROUND RODS MAY NOT BE REQUIRED PER N.E.C. REQUIREMENTS.

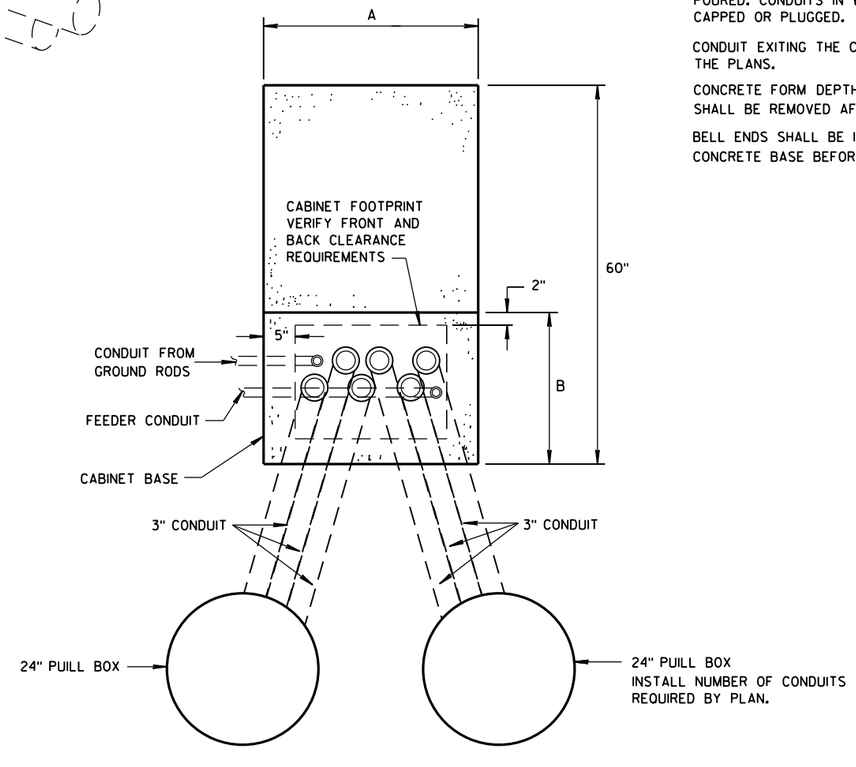
** 1¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. VERIFY LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

ISOMETRIC VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

(C.Y. CONCRETE = APPROX. 0.4)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSIONS		MAXIMUM 3" CONDUITS
		A	B	
L24	24"	34"	24"	4
L30	30"	40"	24"	6



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

GENERAL NOTES

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

INSTALL FOUR STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET BASES. THE ANCHORS 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 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.

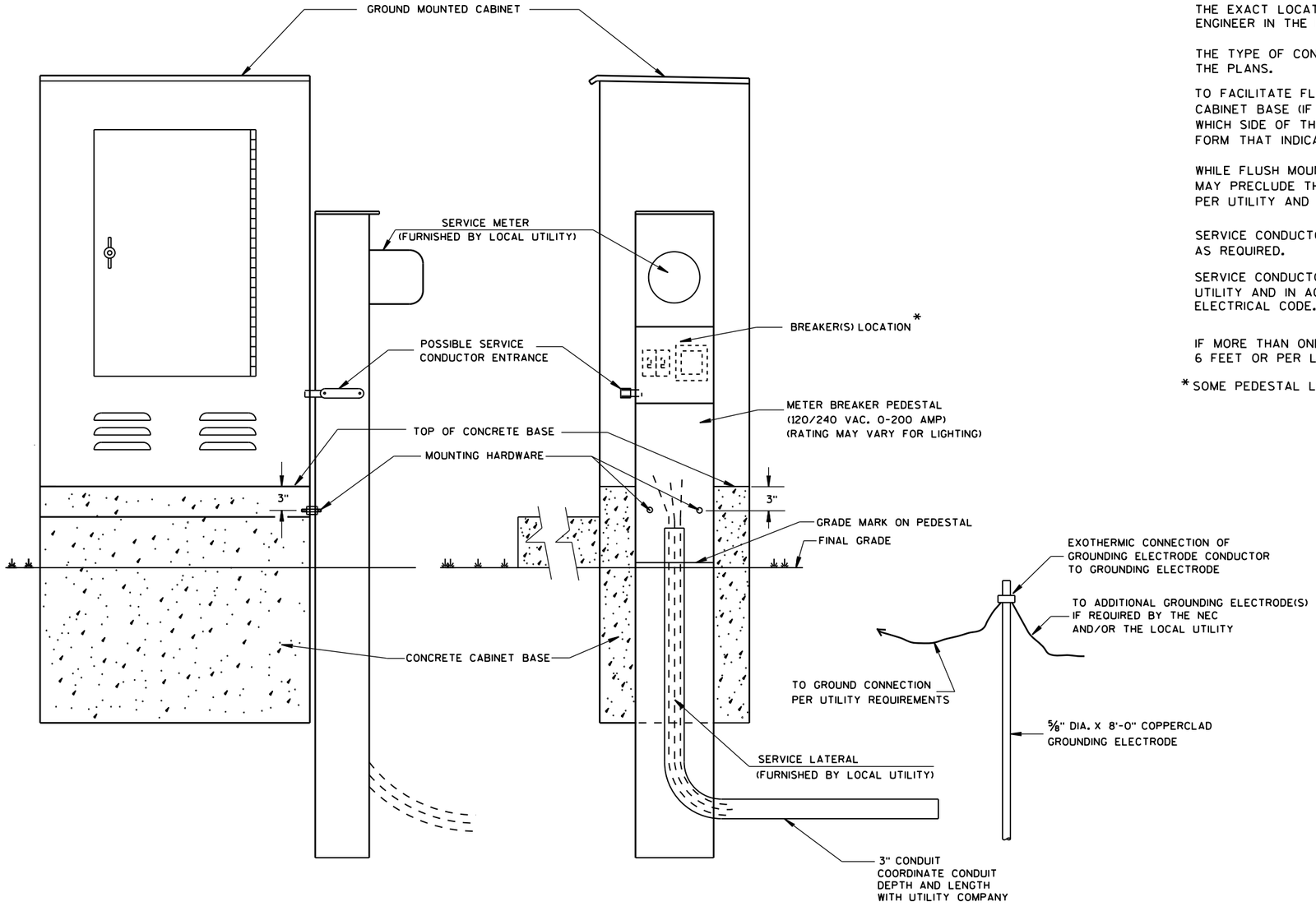
CONCRETE CONTROL CABINET BASE, TYPE L

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Nov. 2014 — DATE
/S/ Thomas Gonring — STATE LIGHTING ENGINE
FHWA
WYS

6

S.D.D. 9 C 14-2



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

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.

ALL INTERNAL ELECTRICAL COMPONENTS WILL BE PRE-WIRED BY THE CABINET FABRICATOR.

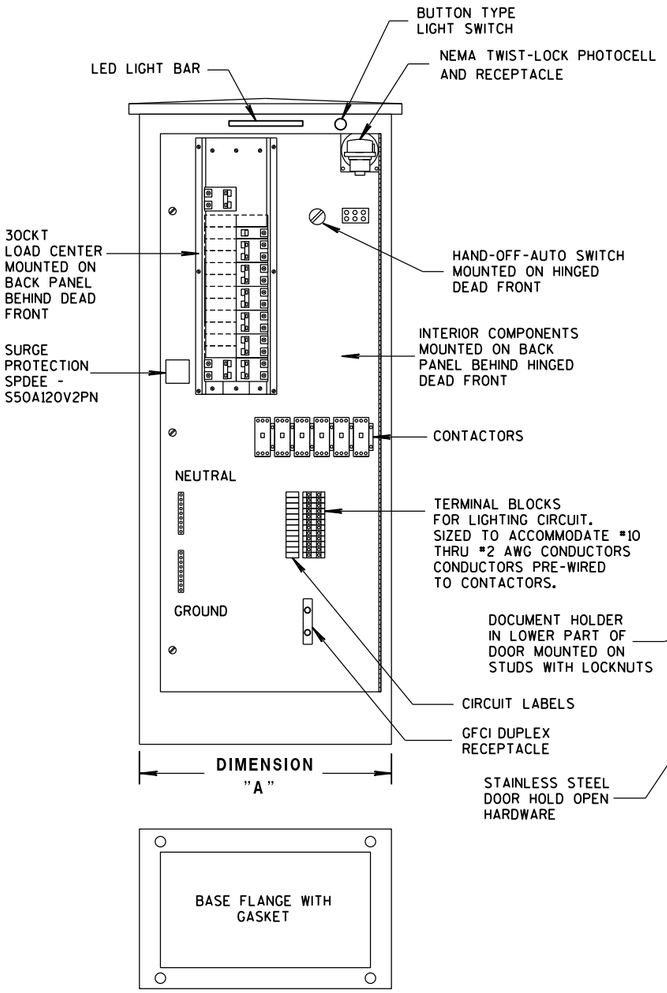
ALL CONDUIT ENTRIES SHALL BE SEALED WITH AN APPROPRIATE DUCT SEALING COMPOUND.

ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS.

THE CONTRACTOR SHALL TOUCH UP ANY DAMAGE TO THE ANODIZED FINISH CAUSED BY THE INSTALLATION PROCESS. COLOR MATCH PAINT SHALL BE USED.

A COMPLETE LIGHTING OR ELECTRICAL PLAN SHALL BE SECURELY PLACED IN THE DOCUMENT HOLDER ATTACHED TO THE DOOR.

FRONT INTERIOR ELEVATION



SIDE VIEW

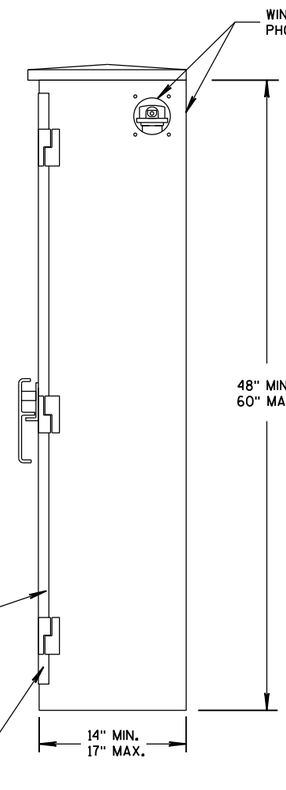
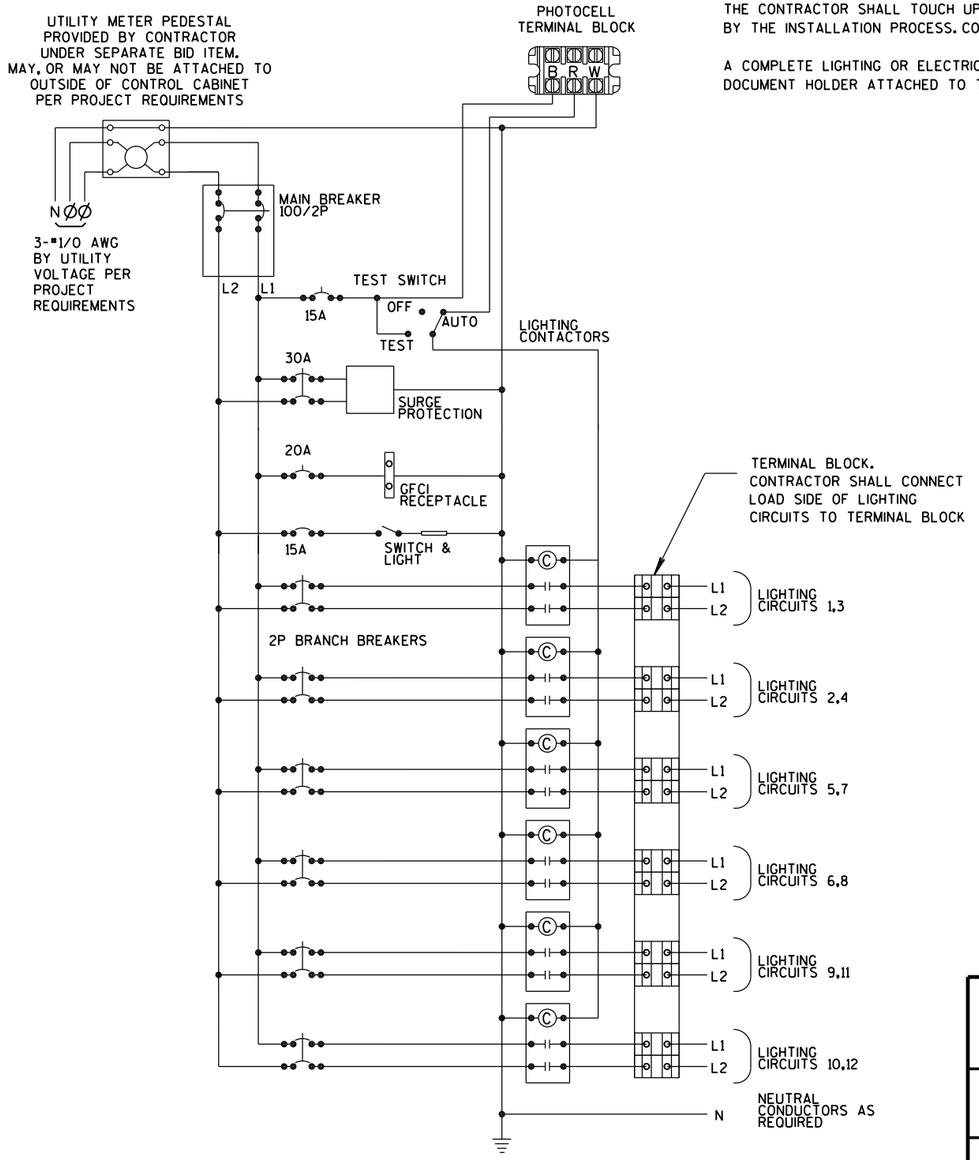


TABLE OF DIMENSIONS (INCHES)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSION "A"
L24	24"	24"
L30	30"	30"

LIGHTING CONTROL CABINET



CONTROL CABINET SCHEMATIC

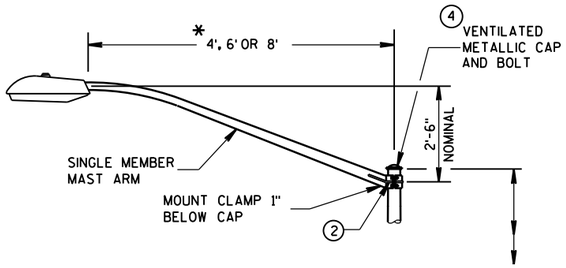
LIGHTING CONTROL CABINET 120/240 VOLT

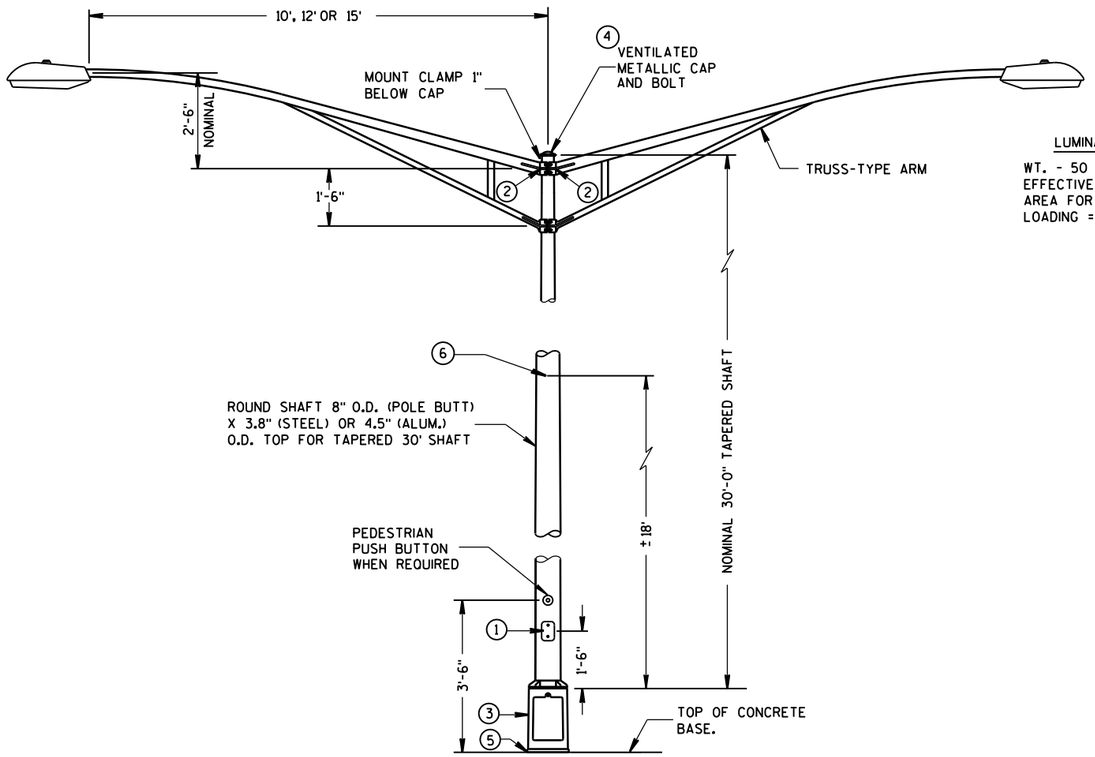
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Thomas Gonring — STATE LIGHTING ENGINEER
FHWA

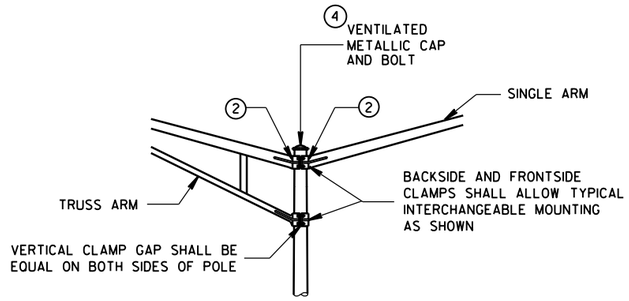
6
S.D.D. 9 D 4-2

*RISE FOR 4' ARM SHALL BE 2'-0".





TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY



INTERCHANGEABLE MOUNTING DETAIL

LUMINAIRE

WT. - 50 LBS.
EFFECTIVE PROJECTED
AREA FOR WIND
LOADING = 1.5 SQ. FT.

GENERAL NOTES

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

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063-T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

THE TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.188".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

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 ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONEECTIONS 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) GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

(6) INTERNAL DUMBBELL-TYPE VIBRATION DAMPER.

6

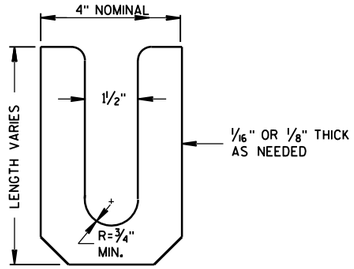
S.D.D. 9 E 1-14d

POLE MONTINGS FOR
LIGHTING UNITS, TYPE 5
(30 FEET)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

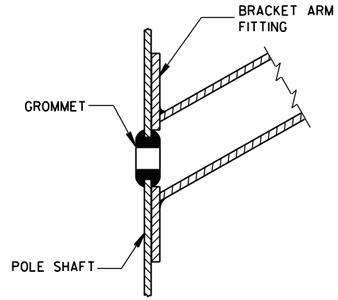
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S.D.D. 9 E 1-14d

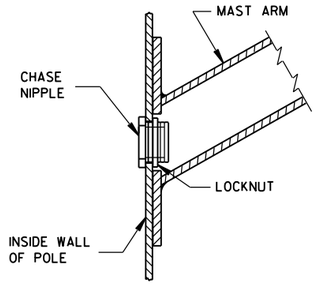


LEVELING SHIM (13)

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.

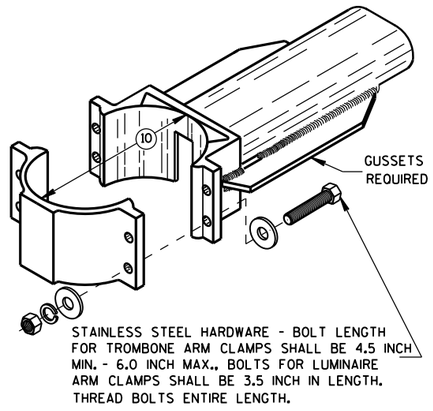
(10) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP.
6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(11) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

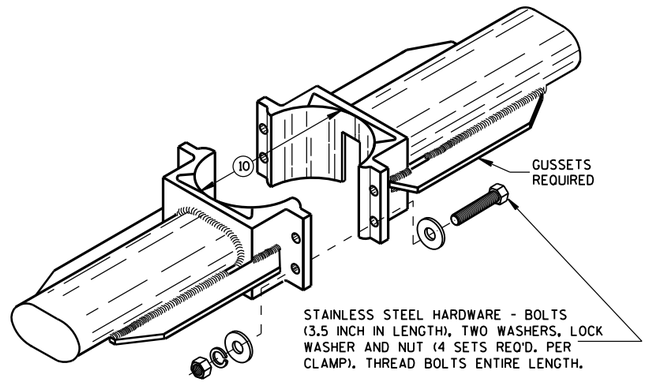
(12) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(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.

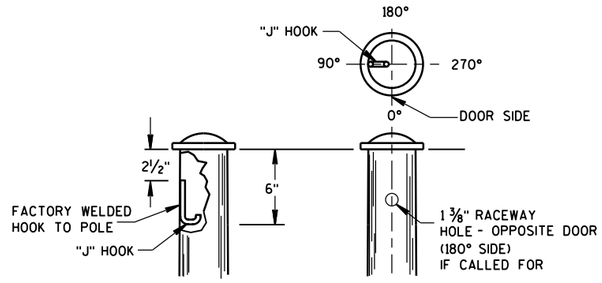
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



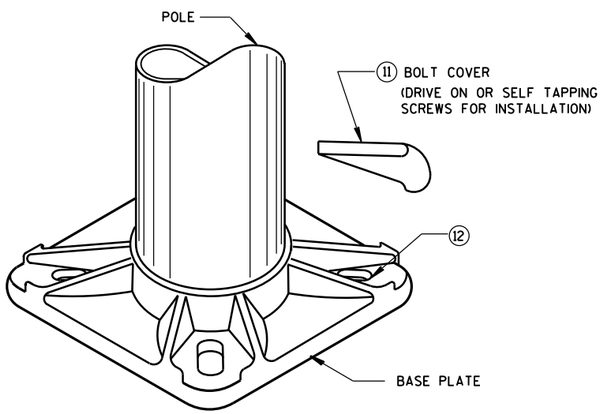
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



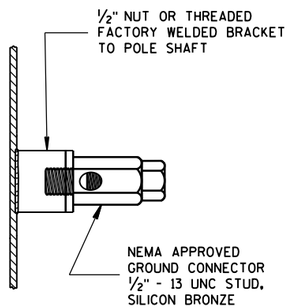
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

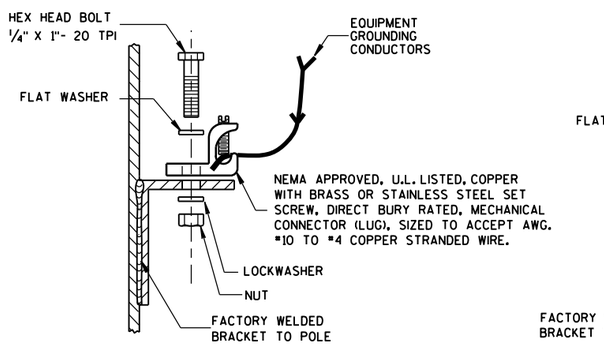


TYPICAL "J" HOOK LOCATION



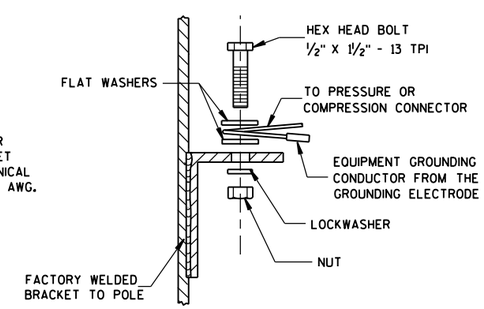
BASE PLATE





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

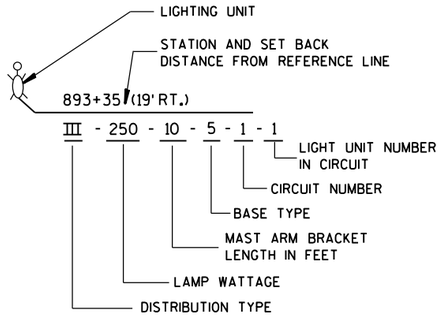
FHWA

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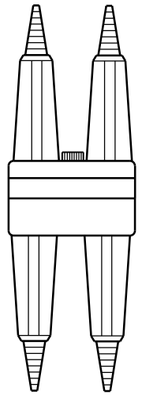
S.D.D. 9 E 1-14g

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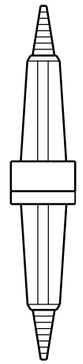
S.D.D. 9 E 1-14g



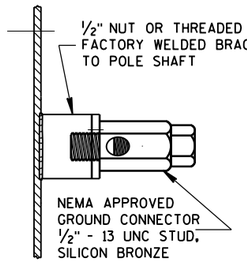
LIGHTING UNIT CODE
(TYPICAL)

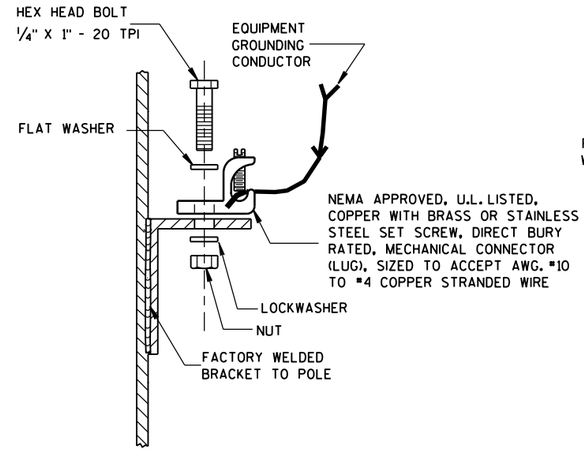


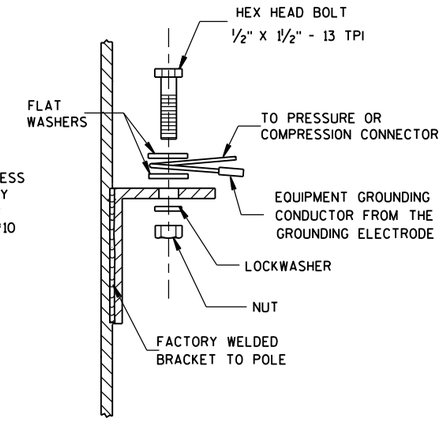
DETAIL "A"
BREAKAWY DOUBLE POLE WITH WATERPROOF INSULATING BOOT



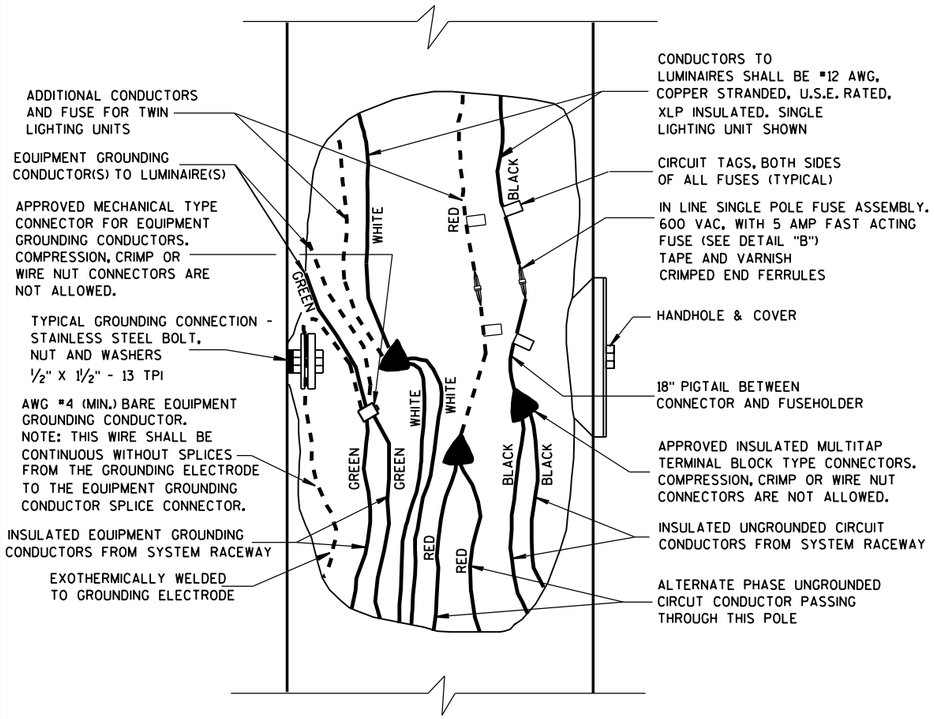
DETAIL "B"
BREAKAWY SINGLE POLE WITH WATERPROOF INSULATING BOOT



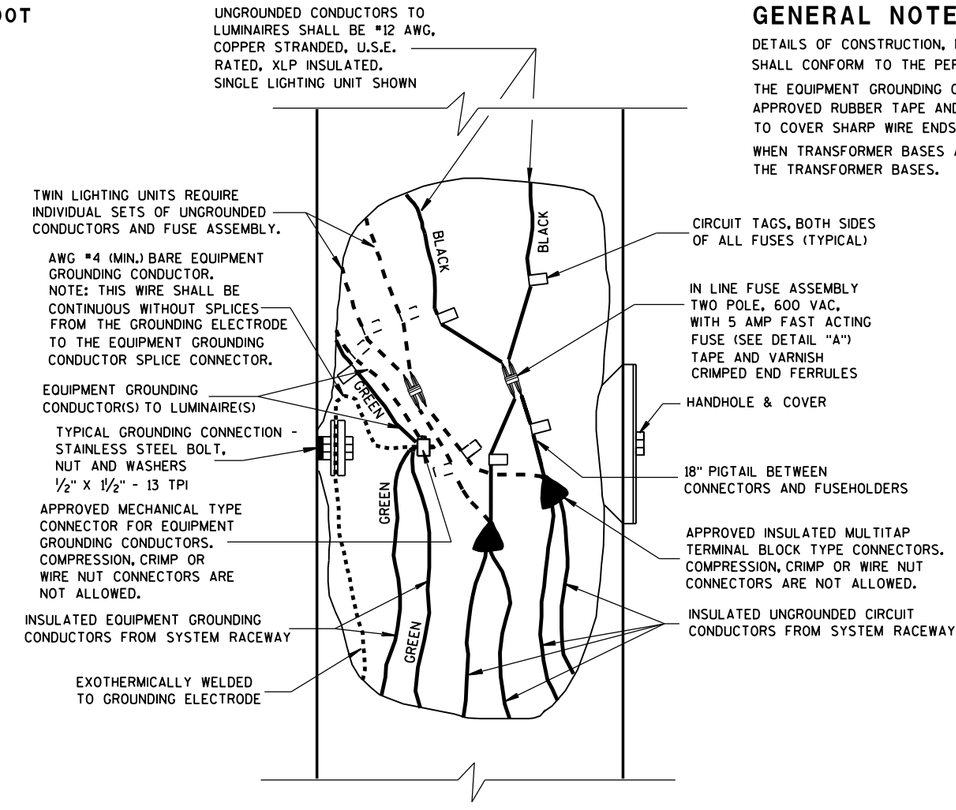




TYPICAL GROUNDING CONNECTIONS
NUT, BOLT, WASHERS AND LOCKWASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTOR) WITH GROUNDED CONDUCTOR AND WITH EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

GENERAL NOTES

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

THE EQUIPMENT GROUNDING CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND THEN 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

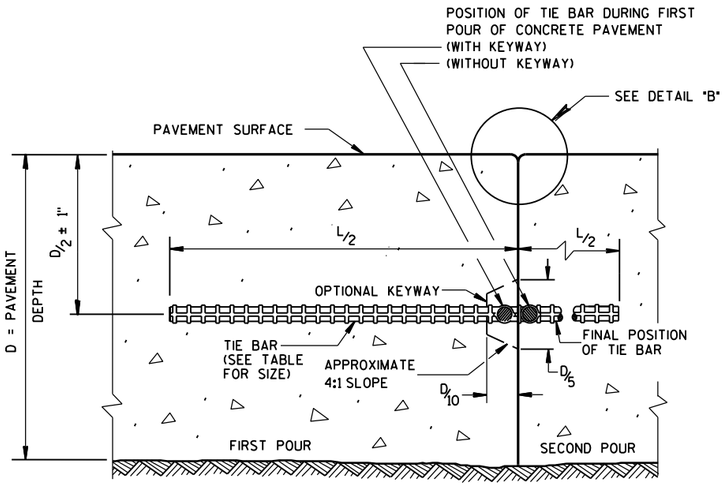
WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

NON-FREEWAY LIGHTING UNIT POLE WIRING

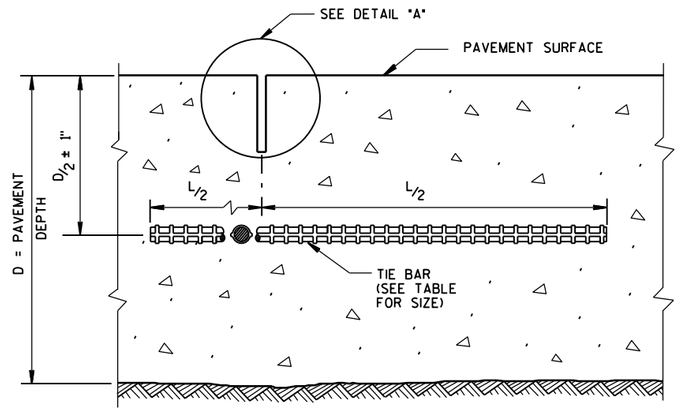
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6
S.D.D. 9 E 3-5



CONSTRUCTION JOINT



SAWED JOINT

GENERAL NOTES

DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

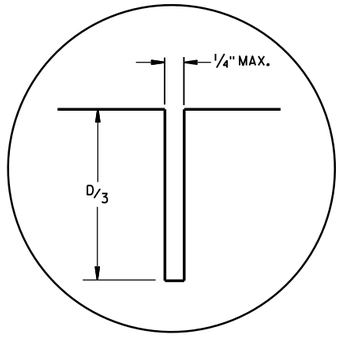
(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

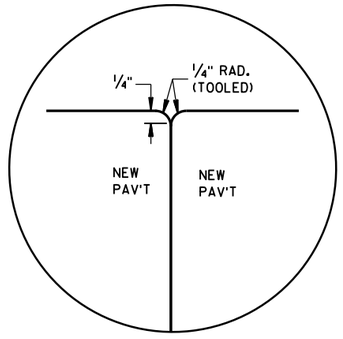
PLAN VIEW

SECTION A-A

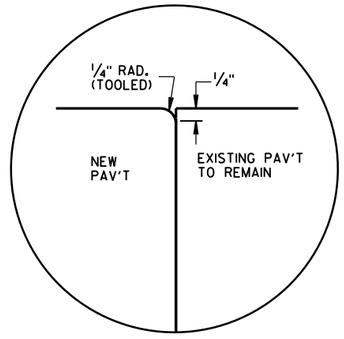
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"



DETAIL "B"



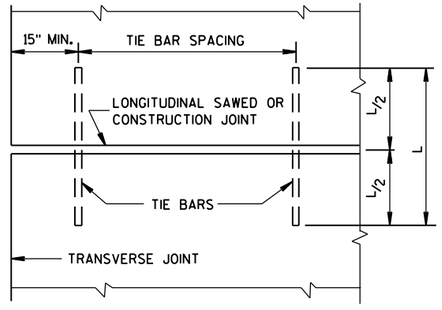
DETAIL "C"

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.



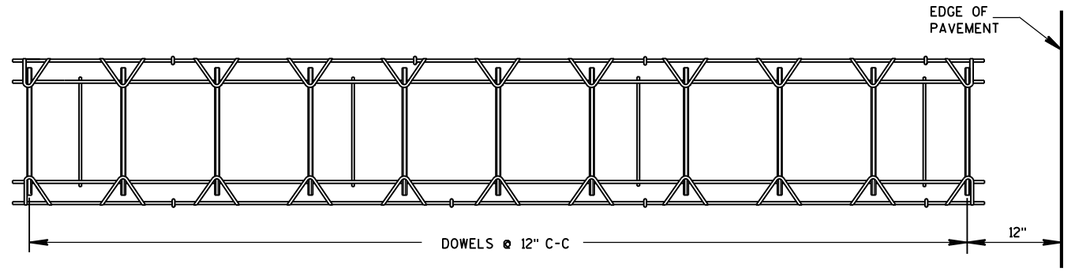
PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPER
FHWA

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S.D.D. 13 C 1-18

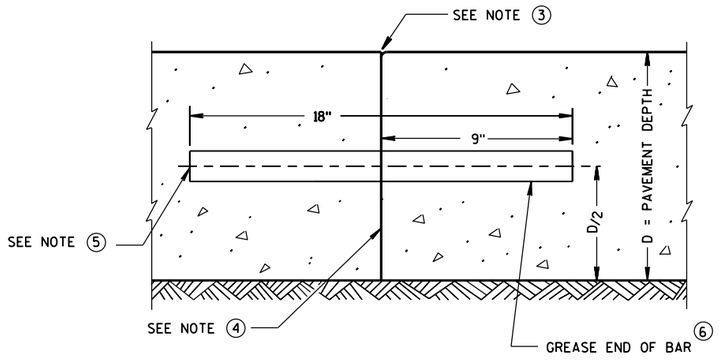


PLAN VIEW

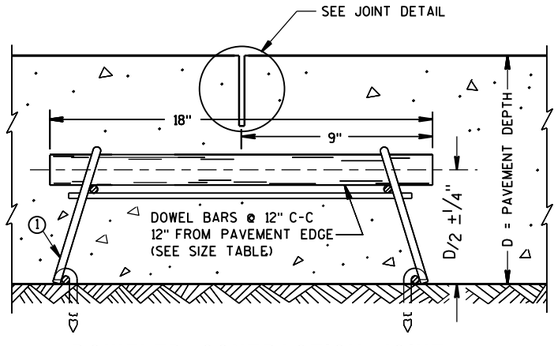


SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①



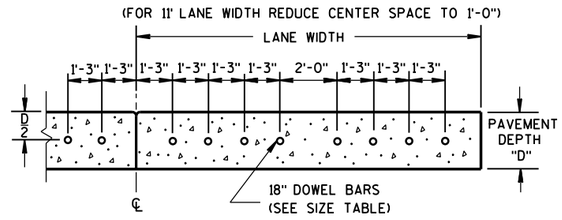
TRANSVERSE CONSTRUCTION JOINT



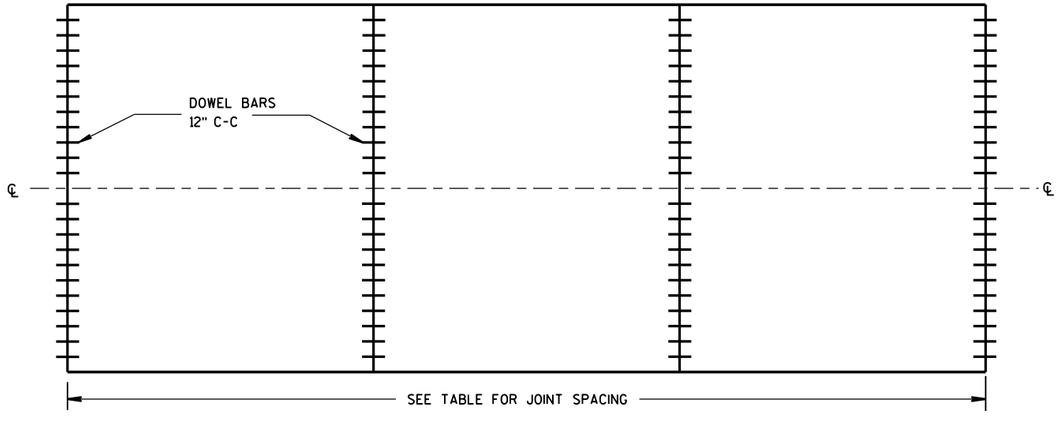
DOWELED CONTRACTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 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'



DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT SEAL OR FILL CONTRACTION JOINTS.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

① **OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.**

② SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

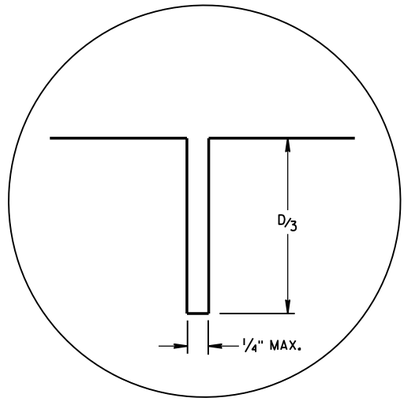
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



JOINT DETAIL

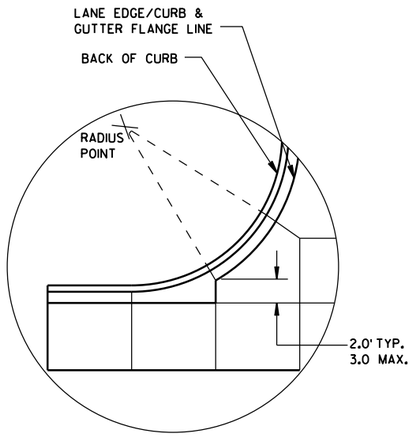
URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

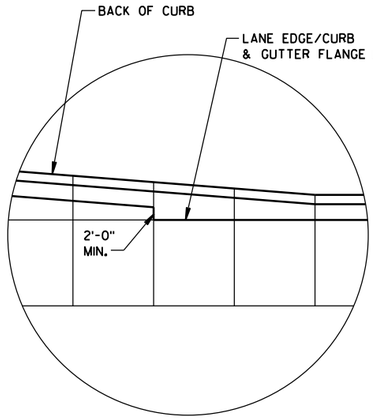
APPROVED
5/3/2013 DATE
/S/ Deb Bischoff
PAVEMENT POLICY & DE ENGINEER
FHWA

6

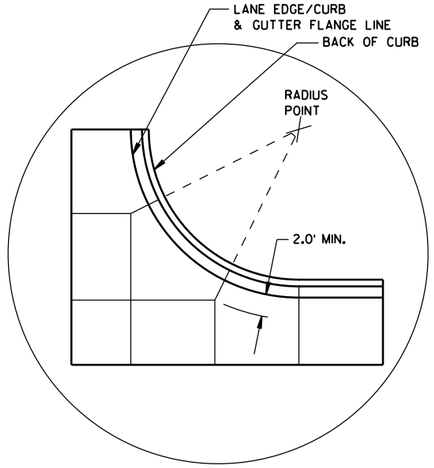
S.D.D. 13 C 13-8



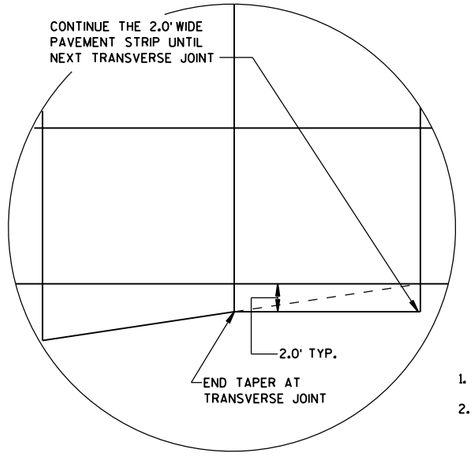
DETAIL "A"



DETAIL "B"



DETAIL "C"



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.

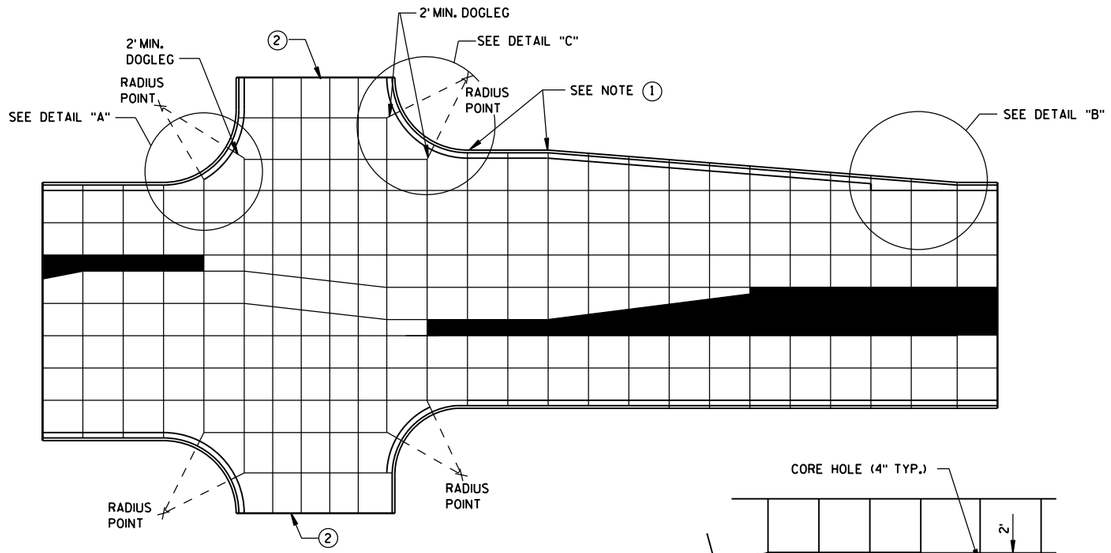
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

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.

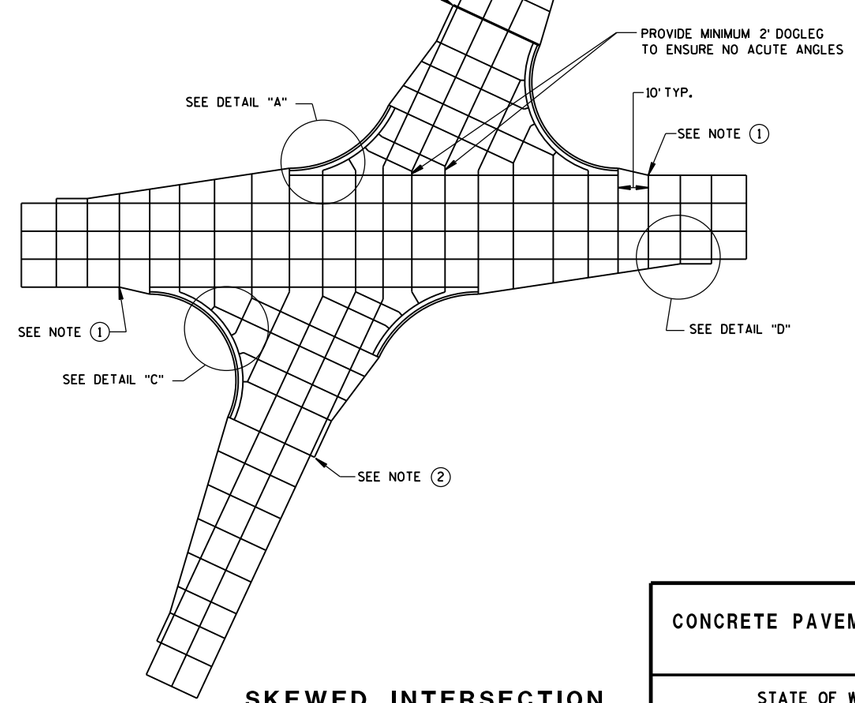
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



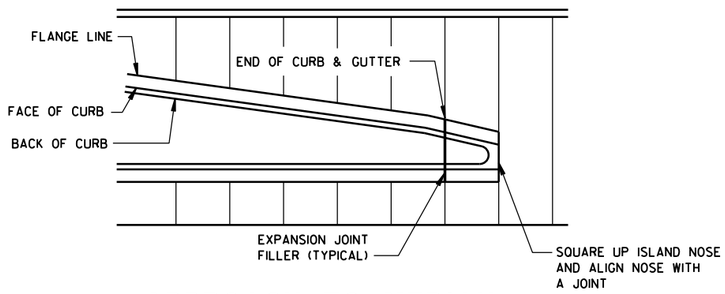
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

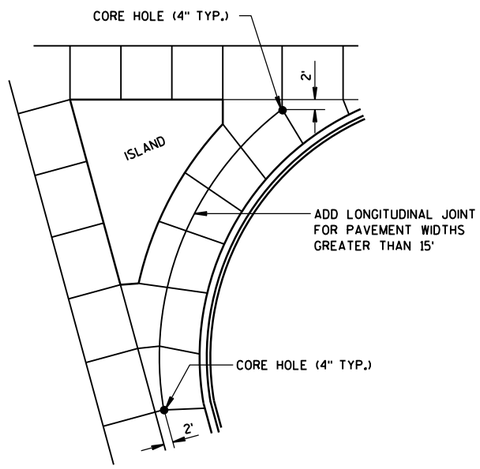
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

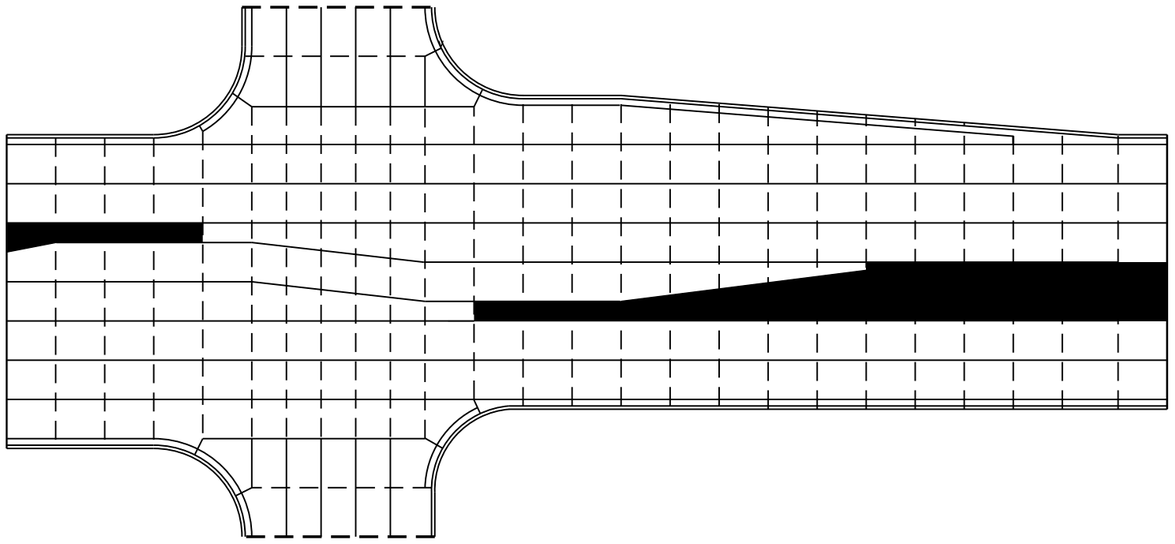
6
S.D.D. 13 C 18-3a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

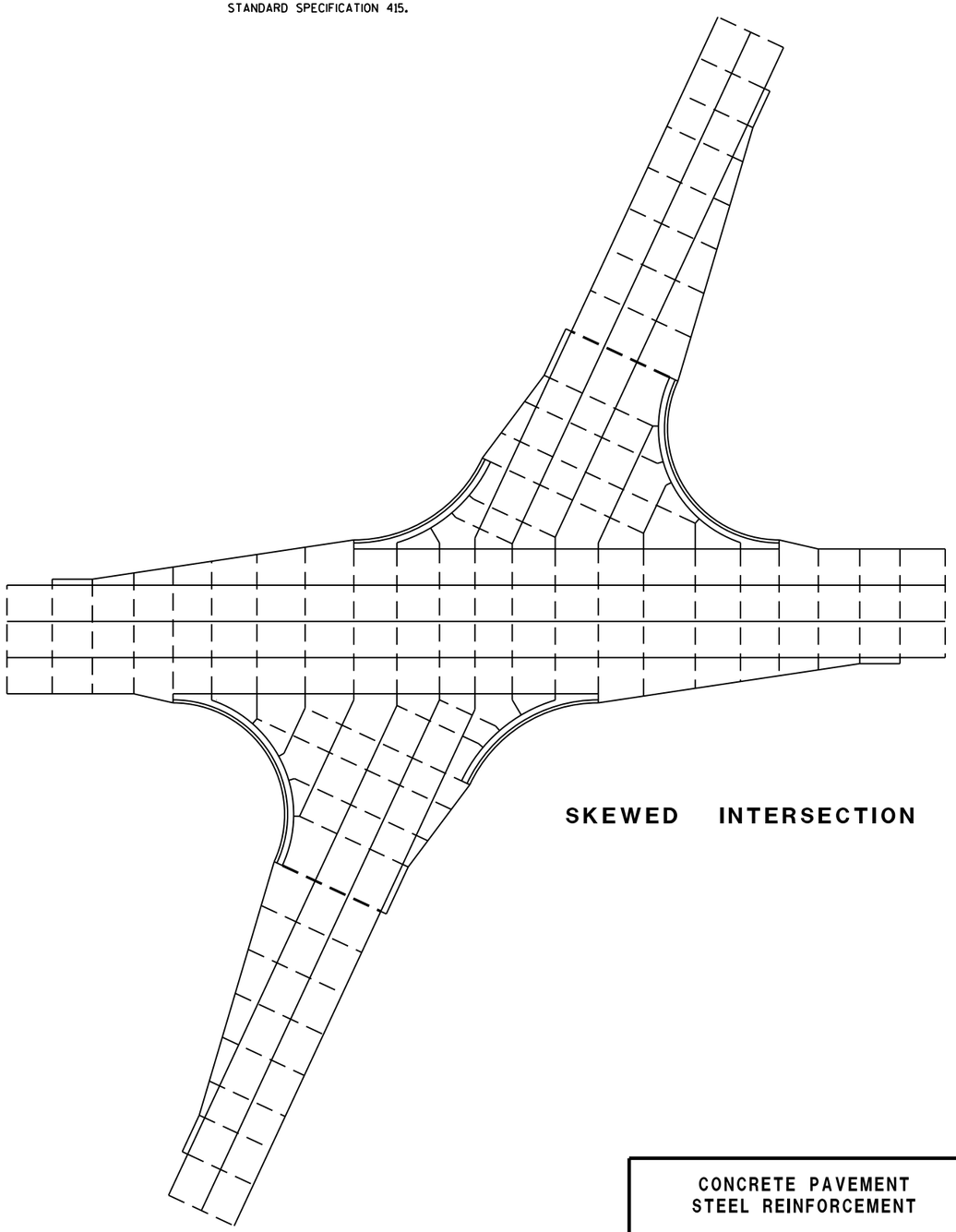
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

CONCRETE PAVEMENT
STEEL REINFORCEMENT

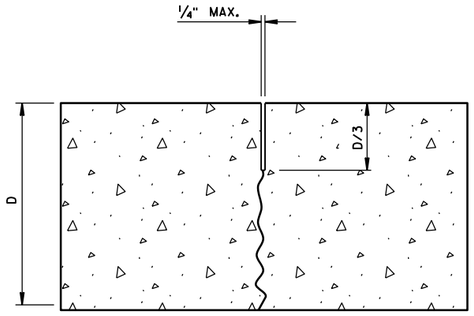
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

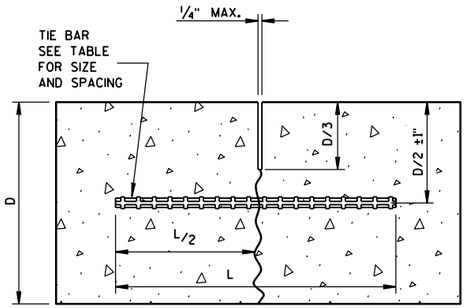
S.D.D. 13 C 18-3b

6

S.D.D. 13 C 18-3b



UNDOWELED-TRANSVERSE



TIED LONGITUDINAL

TIE BAR TABLE

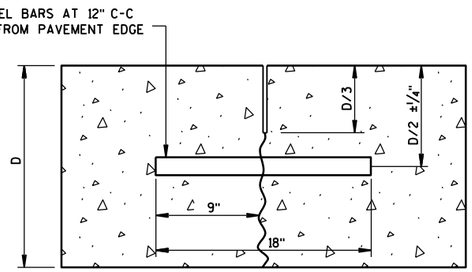
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* 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

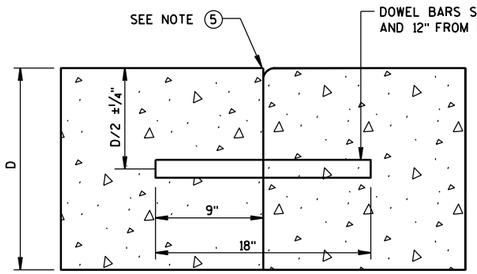
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 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.



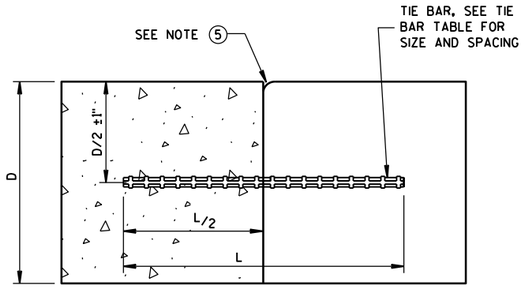
DOWELED-TRANSVERSE

CONTRACTION JOINTS

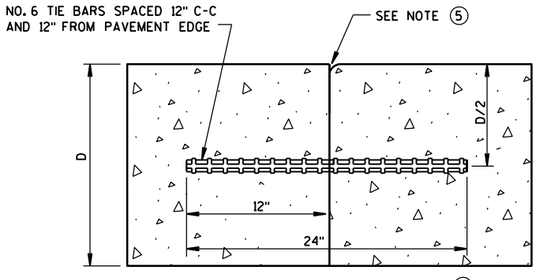
SEE NOTE (2)



DOWELED TRANSVERSE (3)

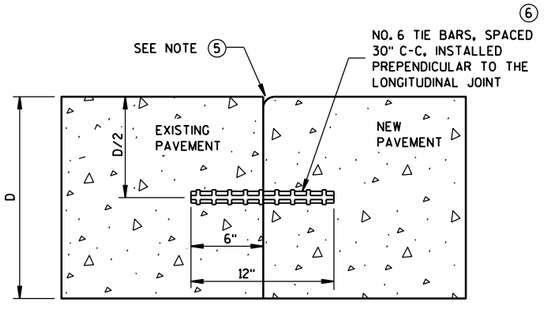


TIED LONGITUDINAL



TIED TRANSVERSE (3)

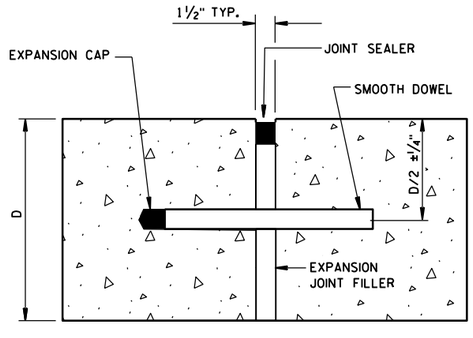
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

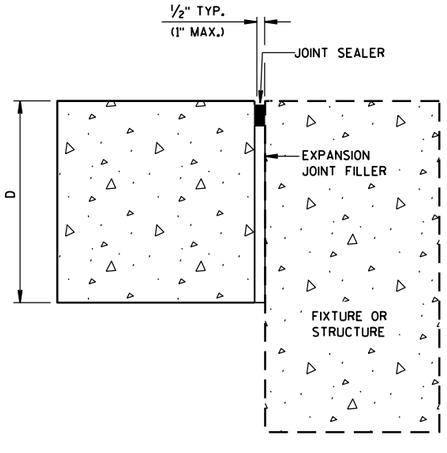
CONSTRUCTION JOINTS

SEE NOTE (4)



DOWELED-TRANSVERSE

SEE NOTE (1)



UNTIED-LONGITUDINAL

EXPANSION JOINTS

6

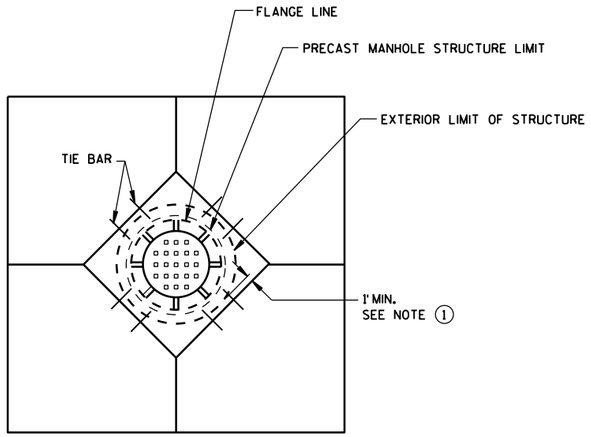
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S.D.D. 13 C 18-3c

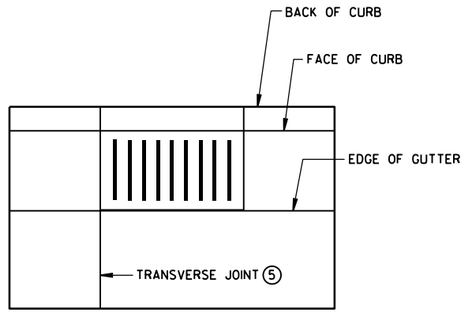
S.D.D. 13 C 18-3c

CONCRETE PAVEMENT
JOINT TYPES

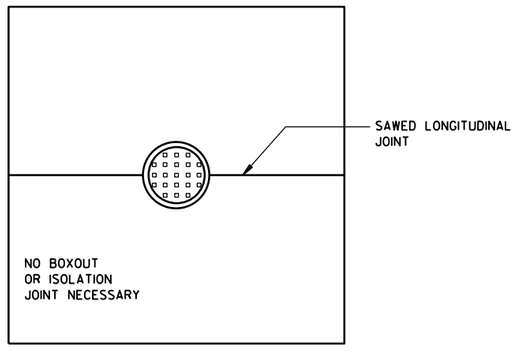
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI



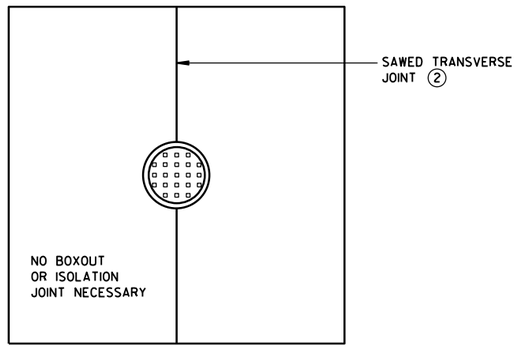
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



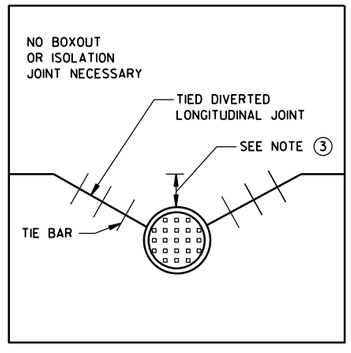
INLET WITH TRANSVERSE JOINT



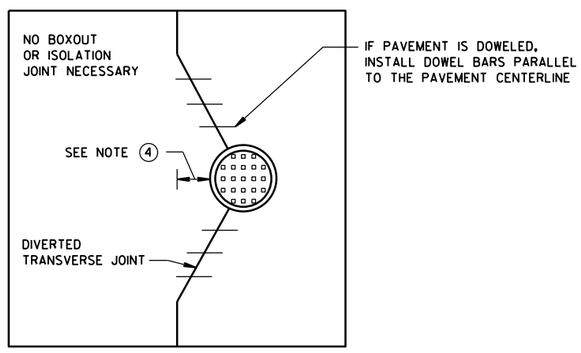
MANHOLE WITH LONGITUDINAL JOINT



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.

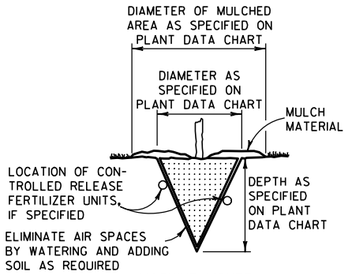
CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

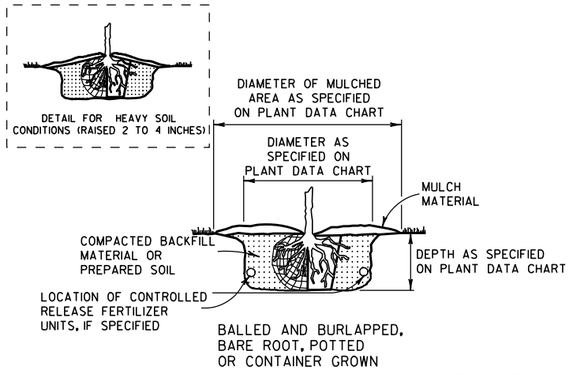
APPROVED
June, 2015
DATE
/S/ Peter Kemp, P.E.
PAVEMENT SUPER
FHWA

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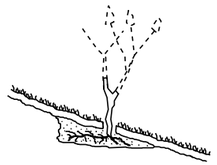
S.D.D. 13 C 18-3d



MACHINE MOVED

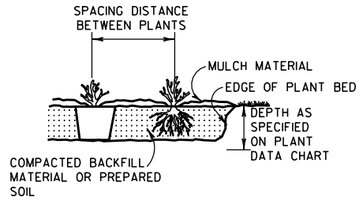


BALLED AND BURLAPPED, BARE ROOT, POTTED OR CONTAINER GROWN



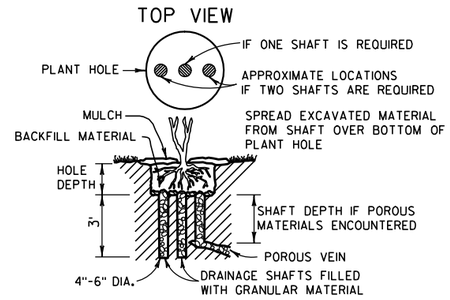
ACCOMMODATE ROOTS (SMOOTH AND STAGHORN SUMAC)

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



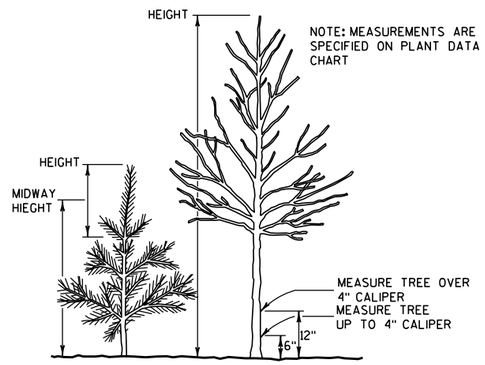
PREPARED BED (BARE ROOT AND POTTED)

PLANTING

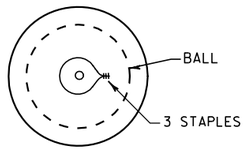


NOTE:
DRAINAGE SHAFT AS SPECIFIED ON PLANT DATA CHART

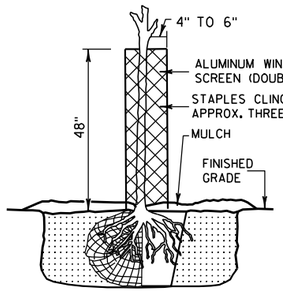
DRAINING



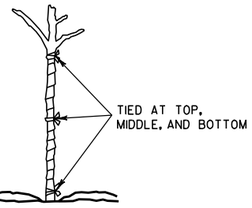
MEASURING



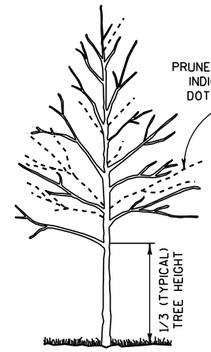
TOP VIEW



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

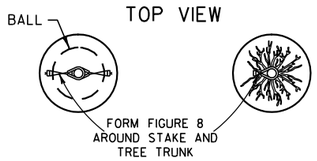


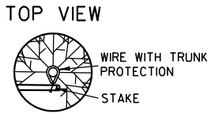
SHRUBS (GRAY DOGWOOD ARROWWOOD VIBURNUM)

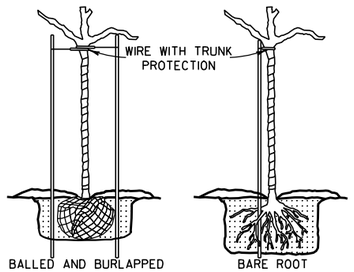
SUMAC

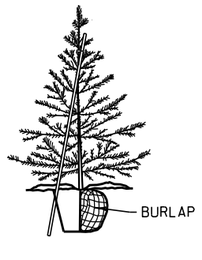
TREE TYPE EVERGREENS (PINE, SPRUCE, FIR) EVERGREENS USUALLY ARE NOT PRUNED

PRUNING



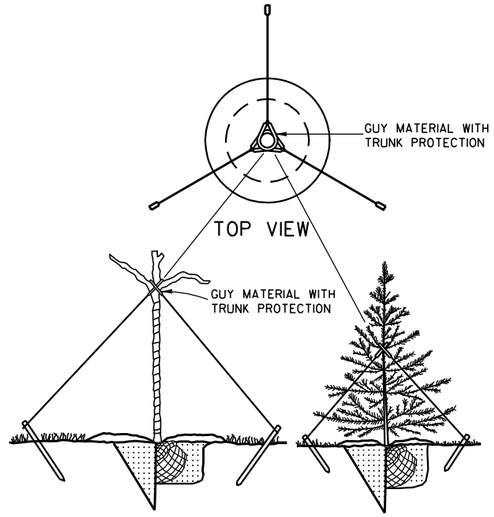






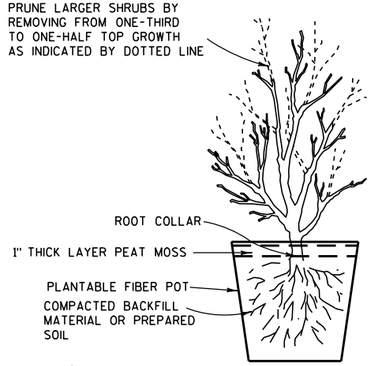
NOTE: BRACING STAKE
1) SHALL BE DRIVEN INTO THE GROUND AS CLOSE TO THE TREE AS POSSIBLE WITHOUT DAMAGING THE BRANCHES.
2) MAY BE DRIVEN AT SUCH AN ANGLE THAT IT DOES NOT PENETRATE THE BALL OR POT.
3) SHALL NOT PROTRUDE ABOVE THE TOP OF THE TREE; AND
4) SHALL HAVE A HOLE NEAR THE TOP TO HOLD THE WIRE 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.

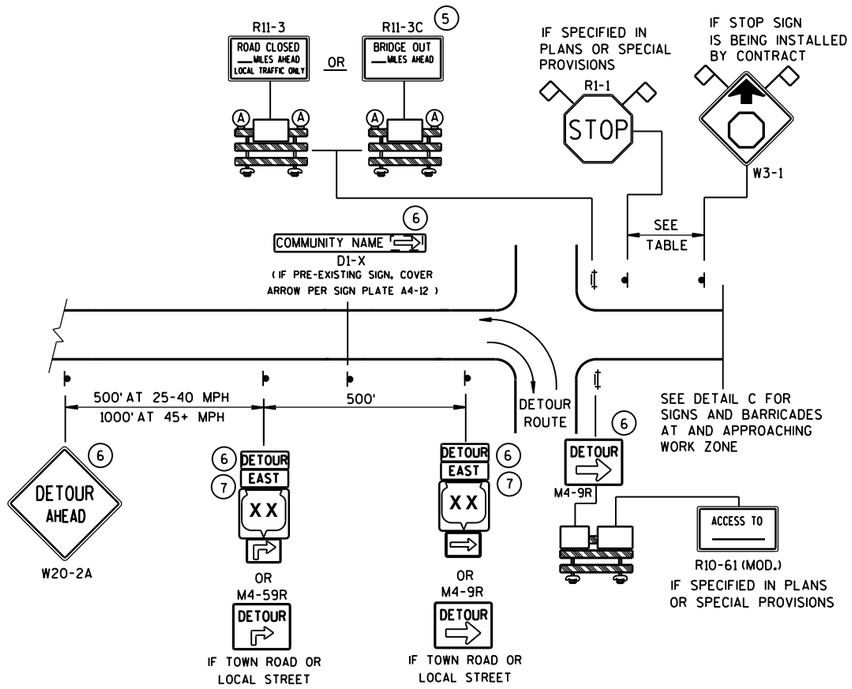
TREE PLANTING DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/11/94
DATE
/S/ Rory L. Rhinesmith
CHIEF METHODS DEVELOPMENT ENGINEER
FHWA

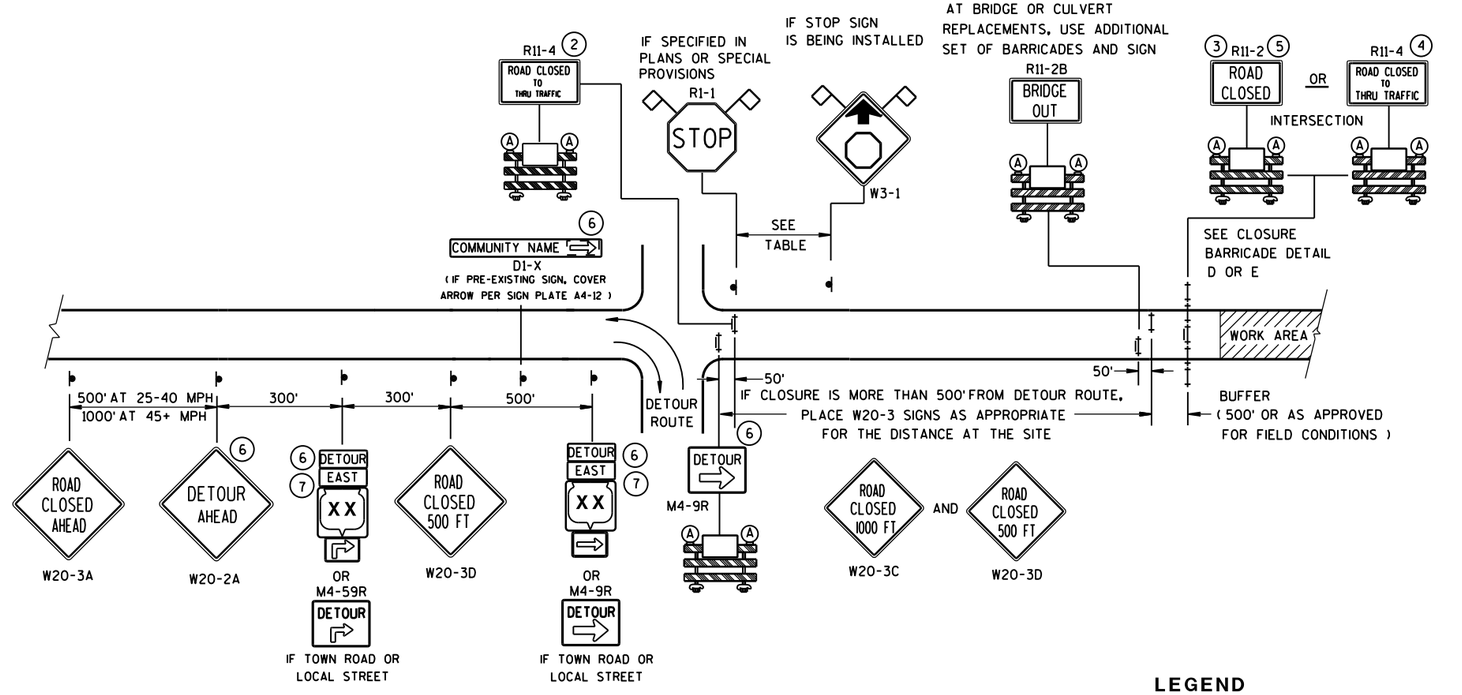
S.D.D. 14 A 2-1

6
S.D.D. 14 A 2-1



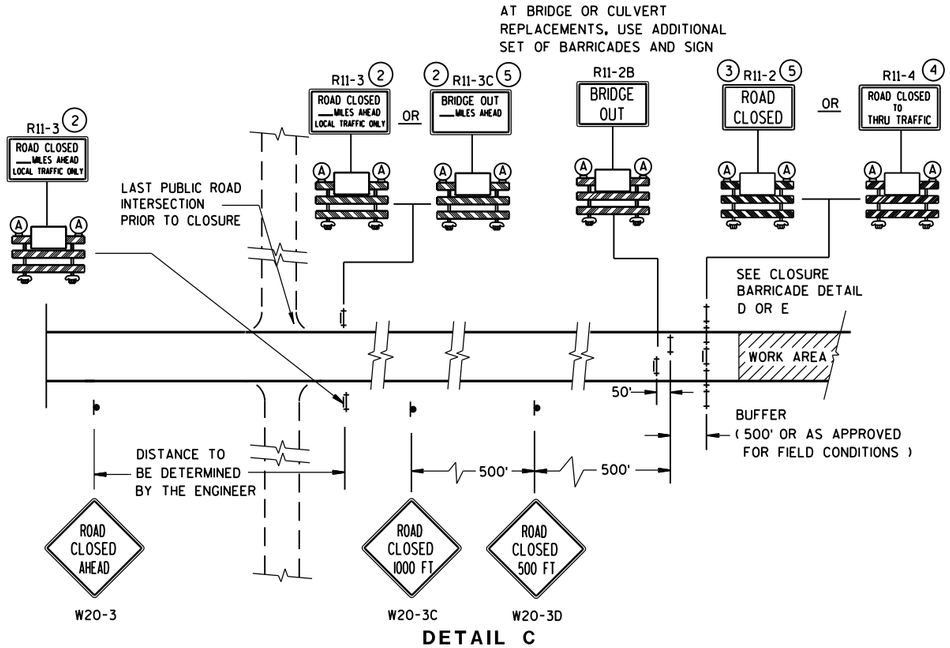
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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

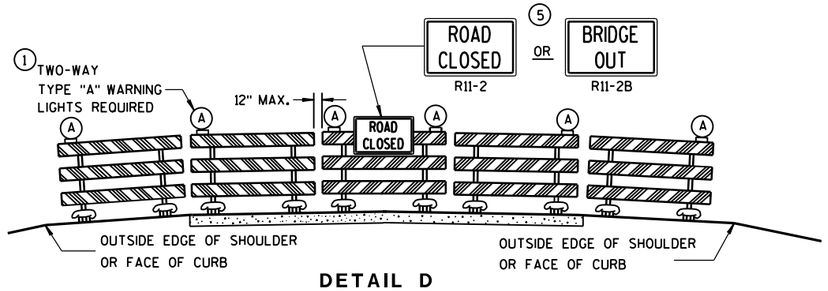
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

6

S.D.D. 15 C 2-6a

6

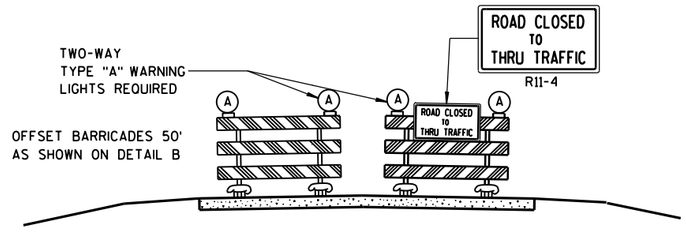
S.D.D. 15 C 2-6a



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

6

S.D.D. 15 C 2-6b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

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.

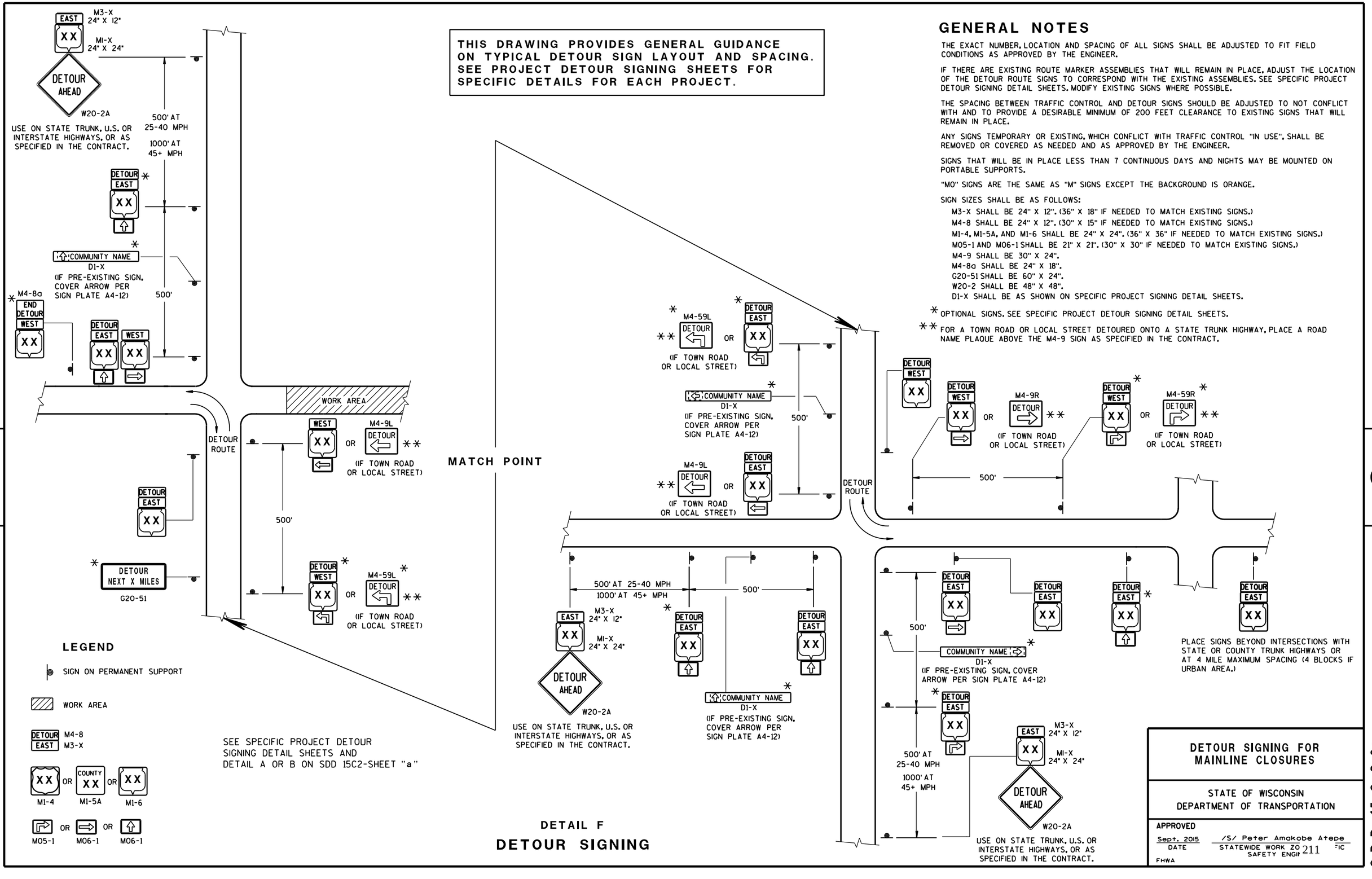
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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.)
- M05-1 AND M06-1 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.



DETAIL F

DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

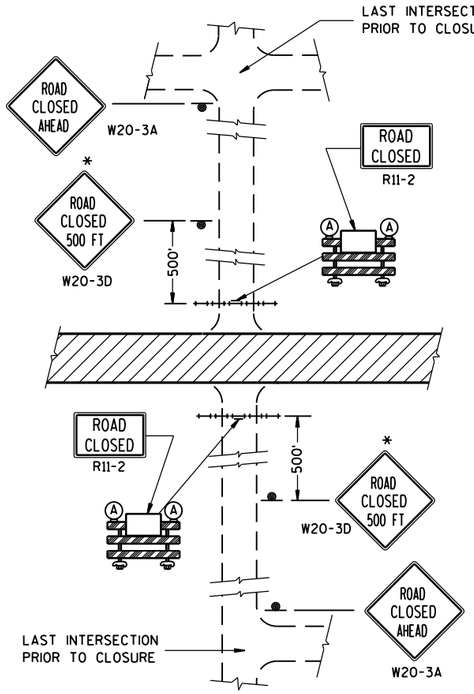
Sept. 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZO... SAFETY ENGI...

FHWA

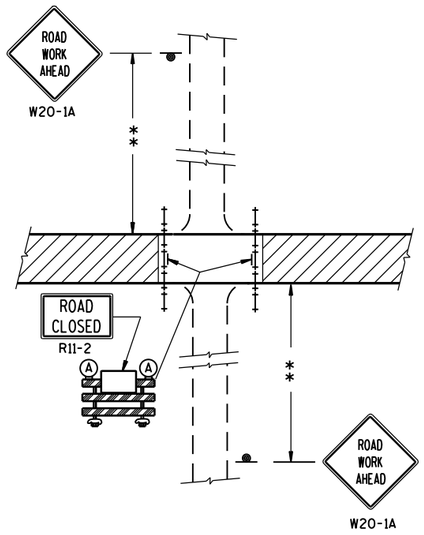
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S.D.D. 15 C 2-6c



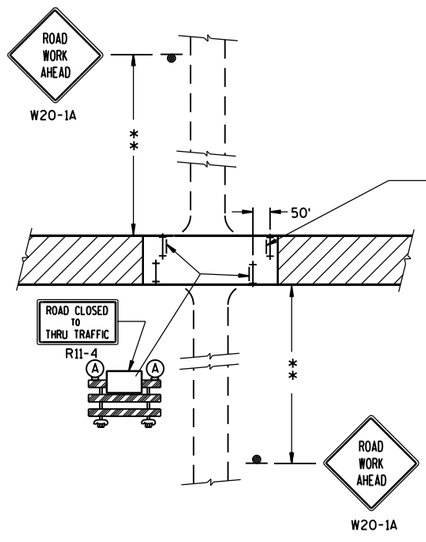
DETAIL 1

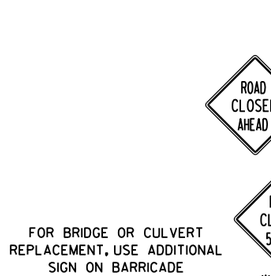
(NO ACCESS TO PROJECT)



DETAIL 2

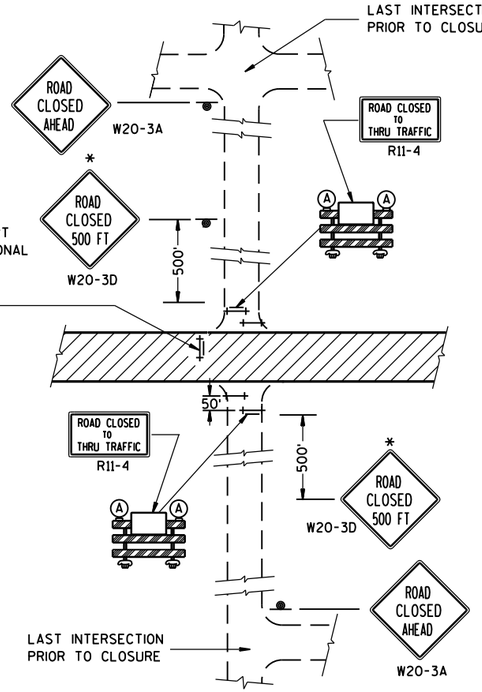
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT).





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
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible]FIC SAFETY ENGI[illegible]
FHWA

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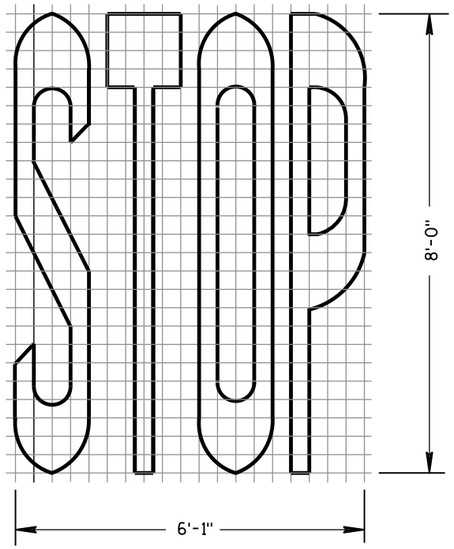
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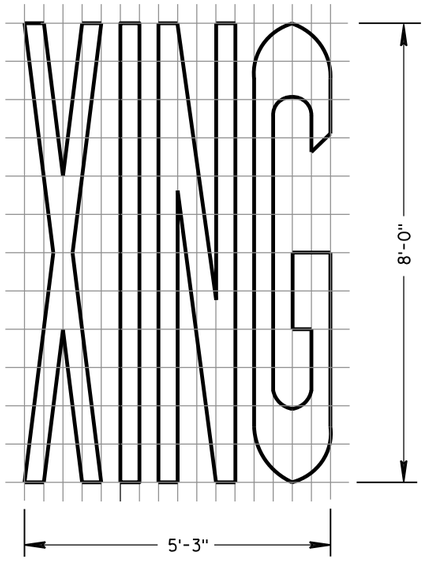
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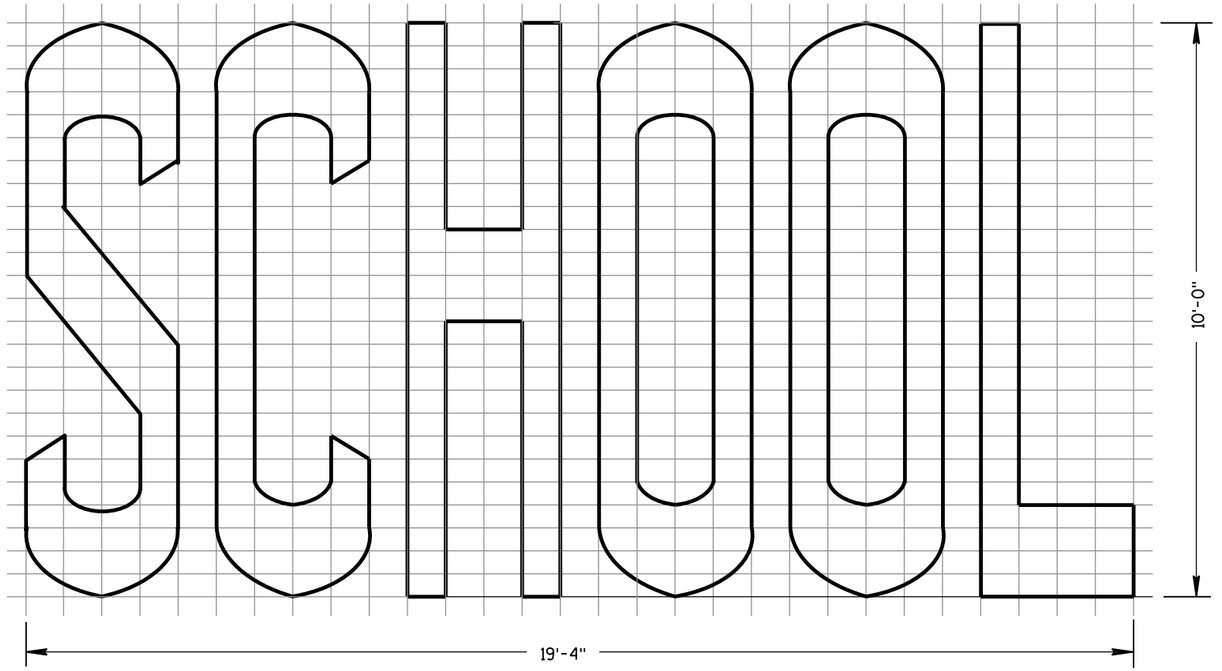
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GENERAL NOTES

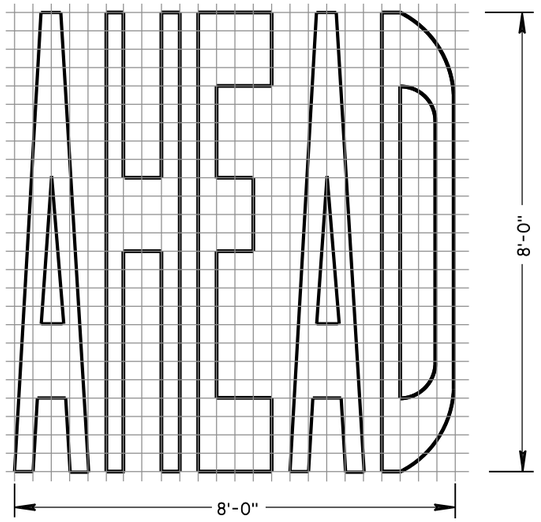
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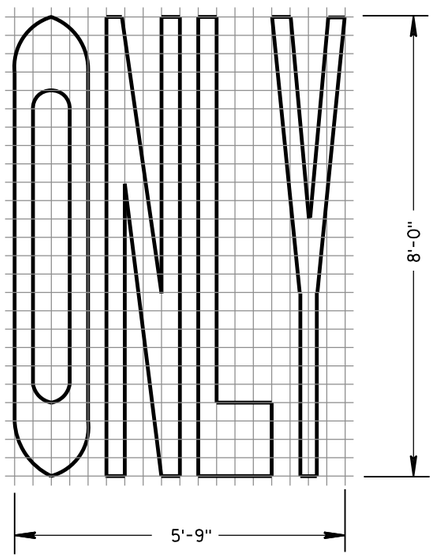


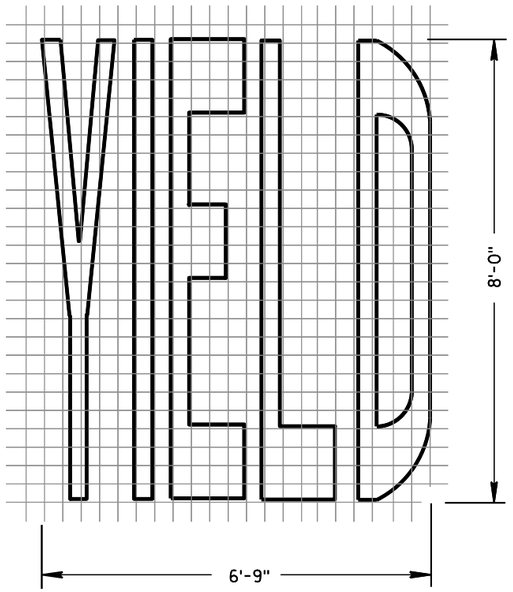


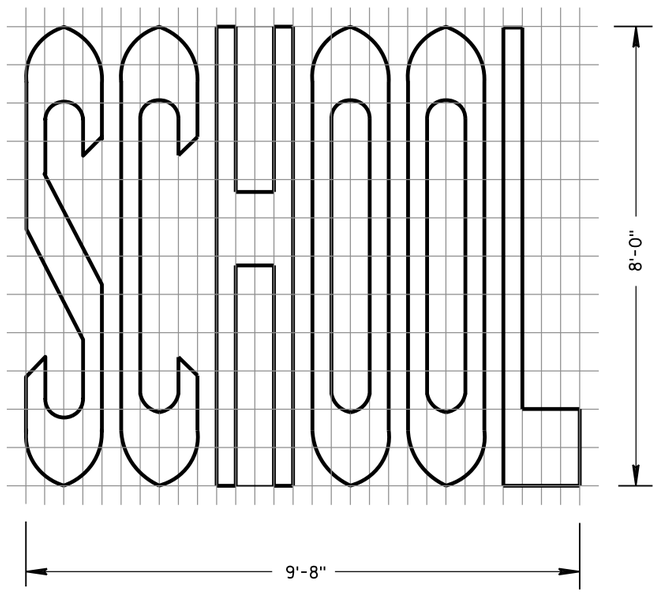


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-18-16	/S/ Matthew R. Rauch	
DATE	STATE SIGNING AND MARK	EER

FHWA

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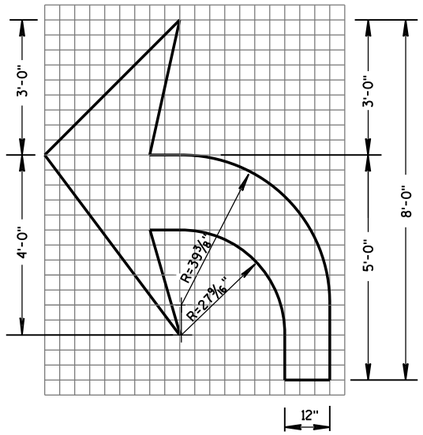
S.D.D. 15 C 7-13b

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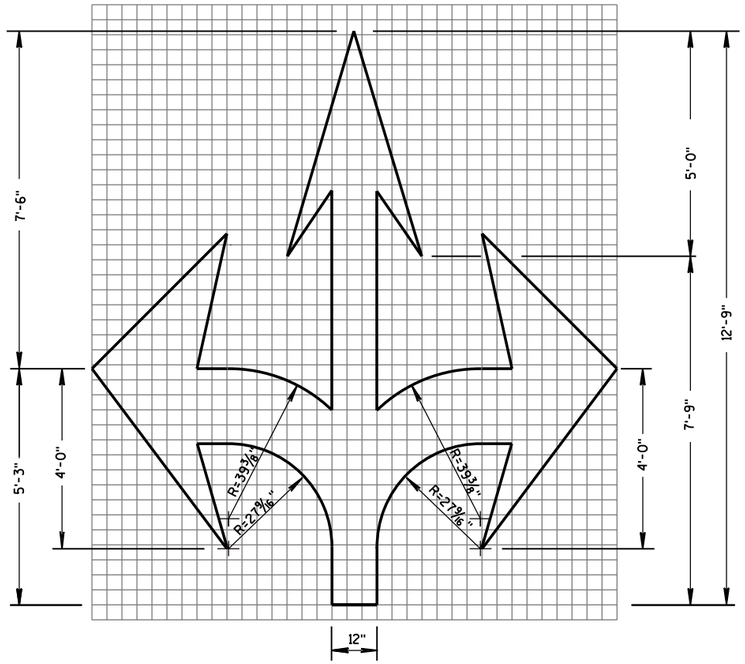
S.D.D. 15 C 7-13b

GENERAL NOTES

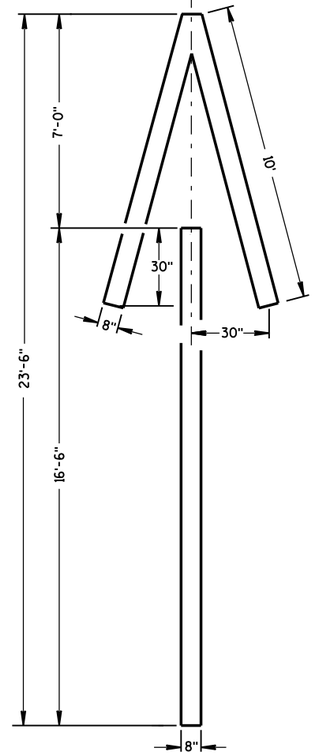
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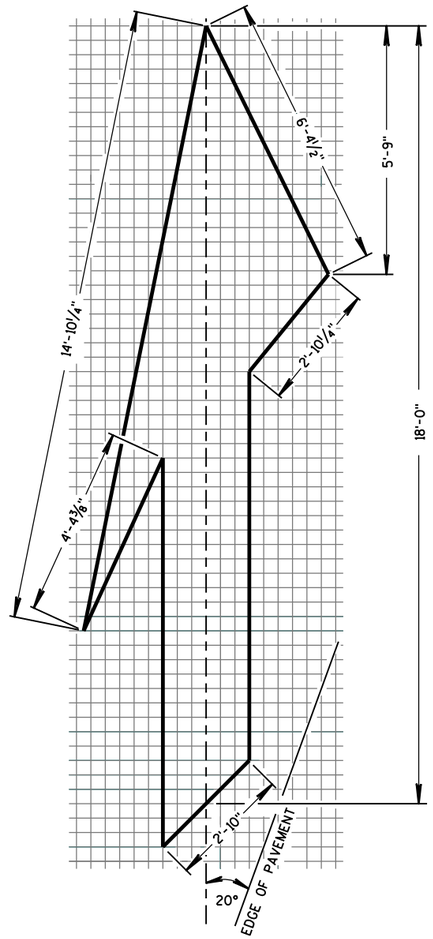
TYPE 2



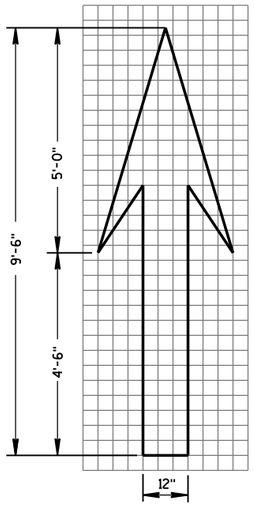
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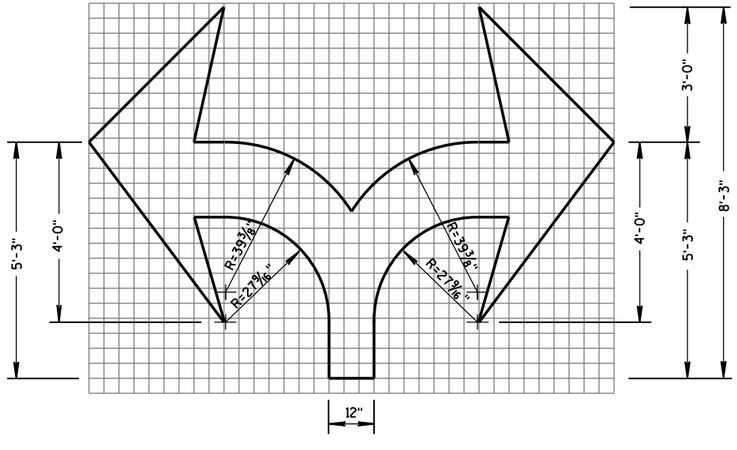
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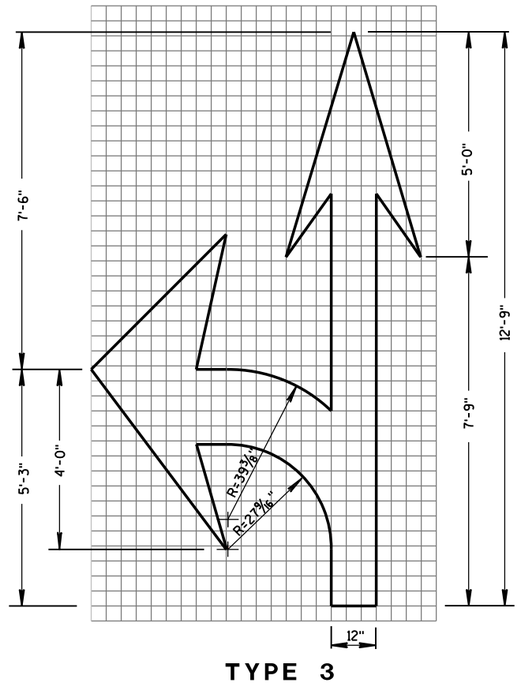
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

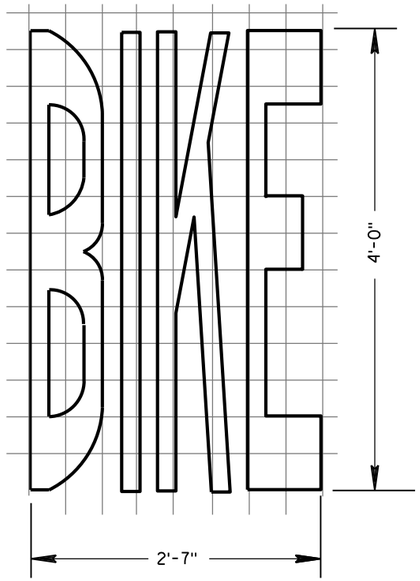
APPROVED
4-18-16 DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAR ENGINEER
FHWA

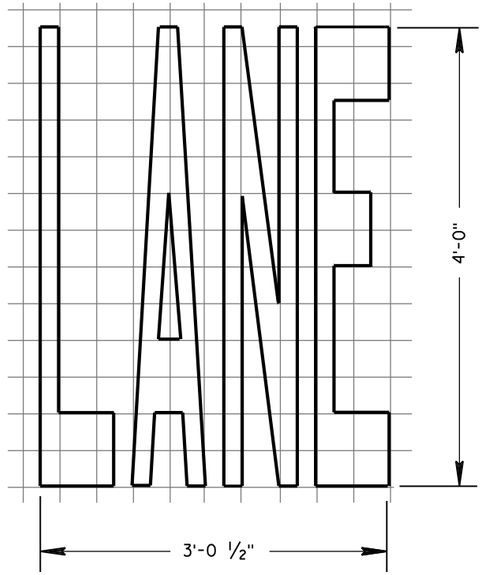
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S.D.D. 15 C 7-13c

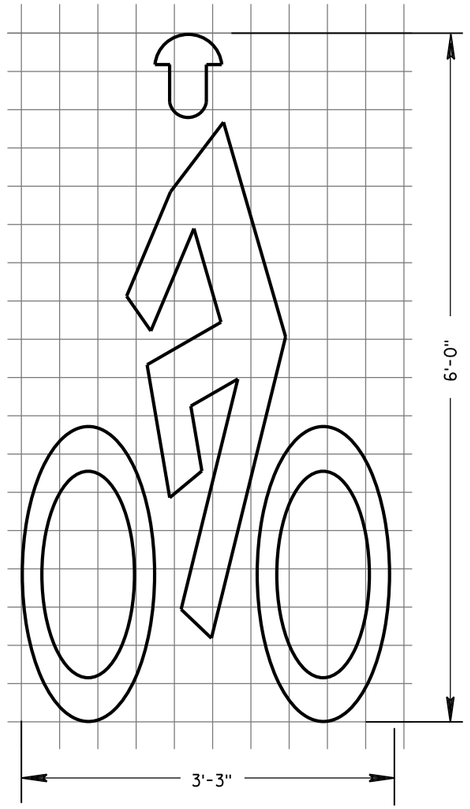
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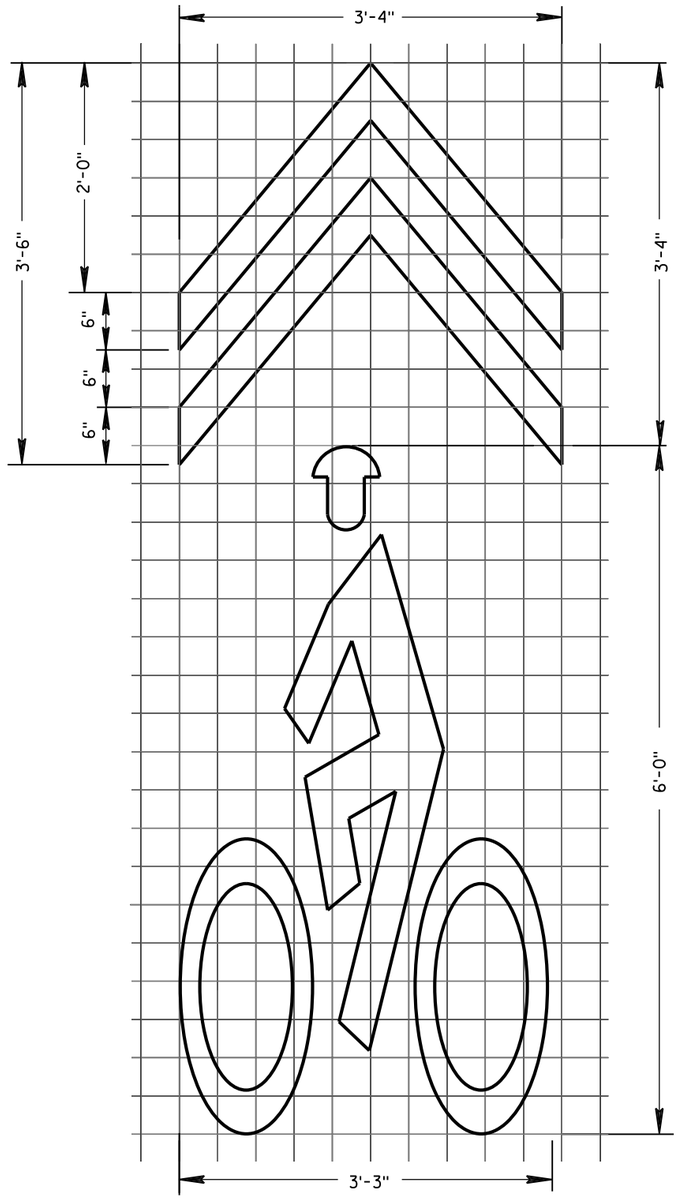




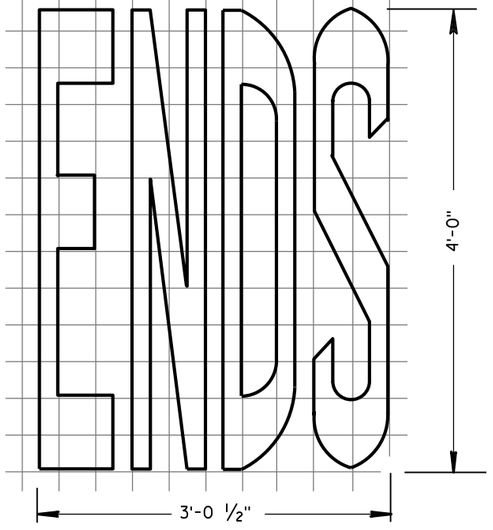
BIKE LANE WORDS



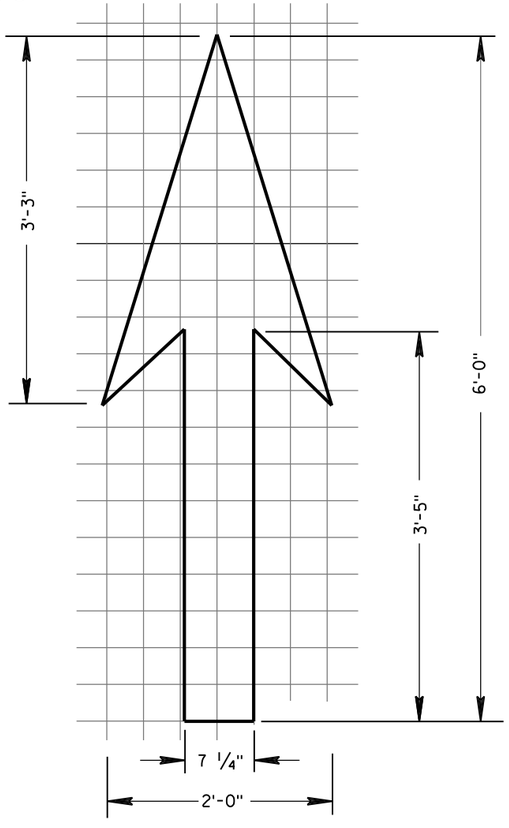
BIKE LANE SYMBOL



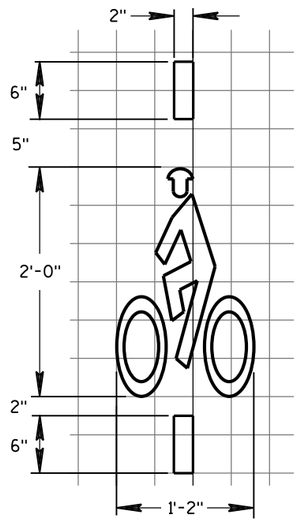
BIKE SYMBOL FOR SHARED LANE



BIKE LANE WORDS



BIKE LANE ARROW



BICYCLE DETECTOR PAVEMENT MARKING

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.

PAVEMENT MARKING FOR BIKE LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-18-2016
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MARK EER

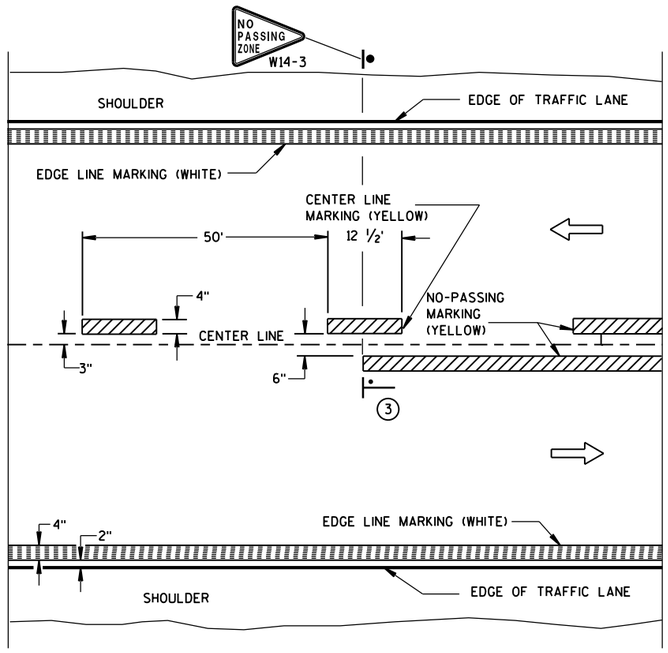
FHWA

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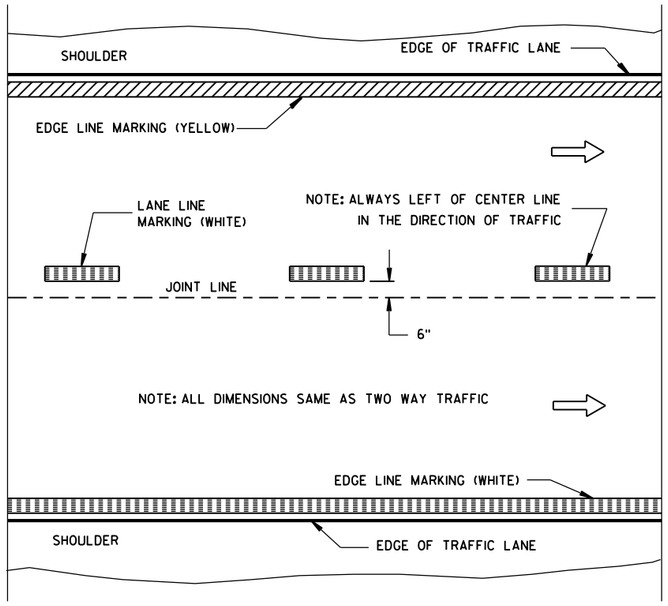
S.D.D. 15 C 7-13e

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S.D.D. 15 C 7-13e

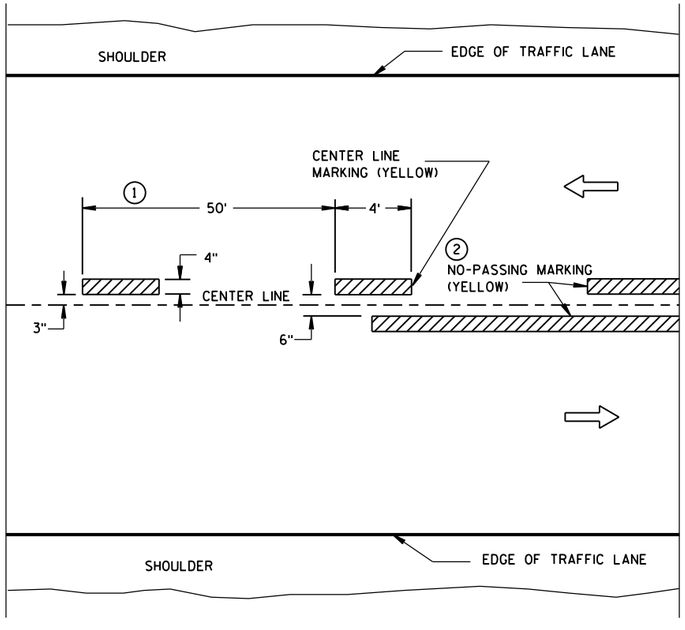


TWO WAY TRAFFIC

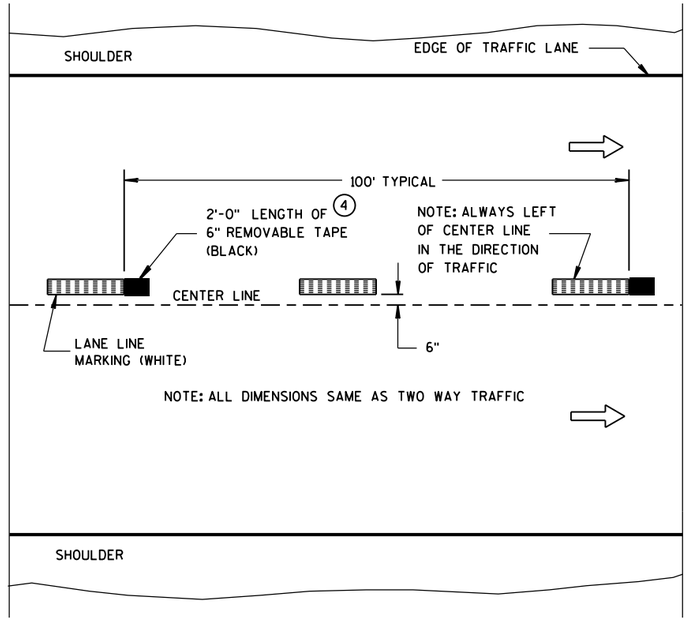


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

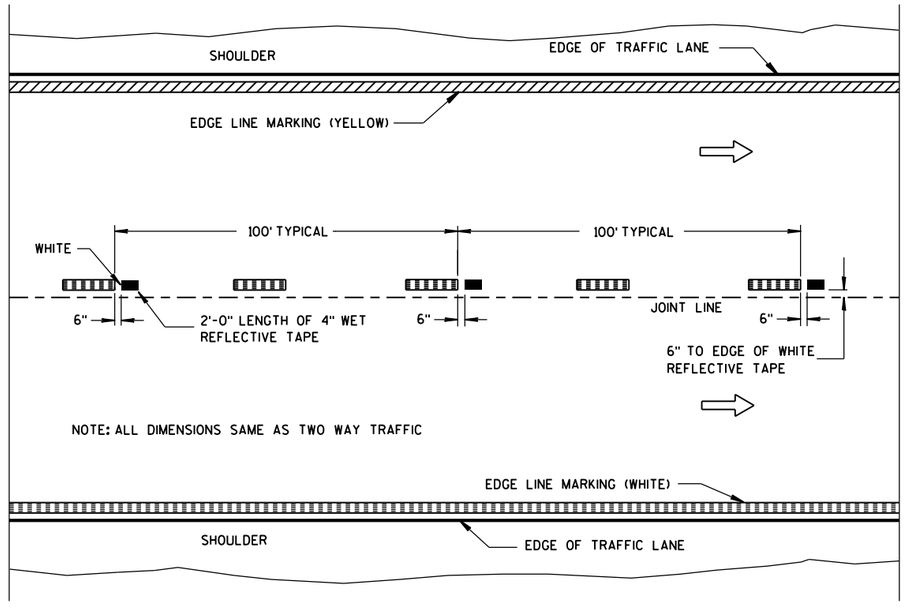
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

1. HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
2. NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
3. NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
4. CONCRETE ONLY.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

"T" MARKING

POST MOUNTED SIGN

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

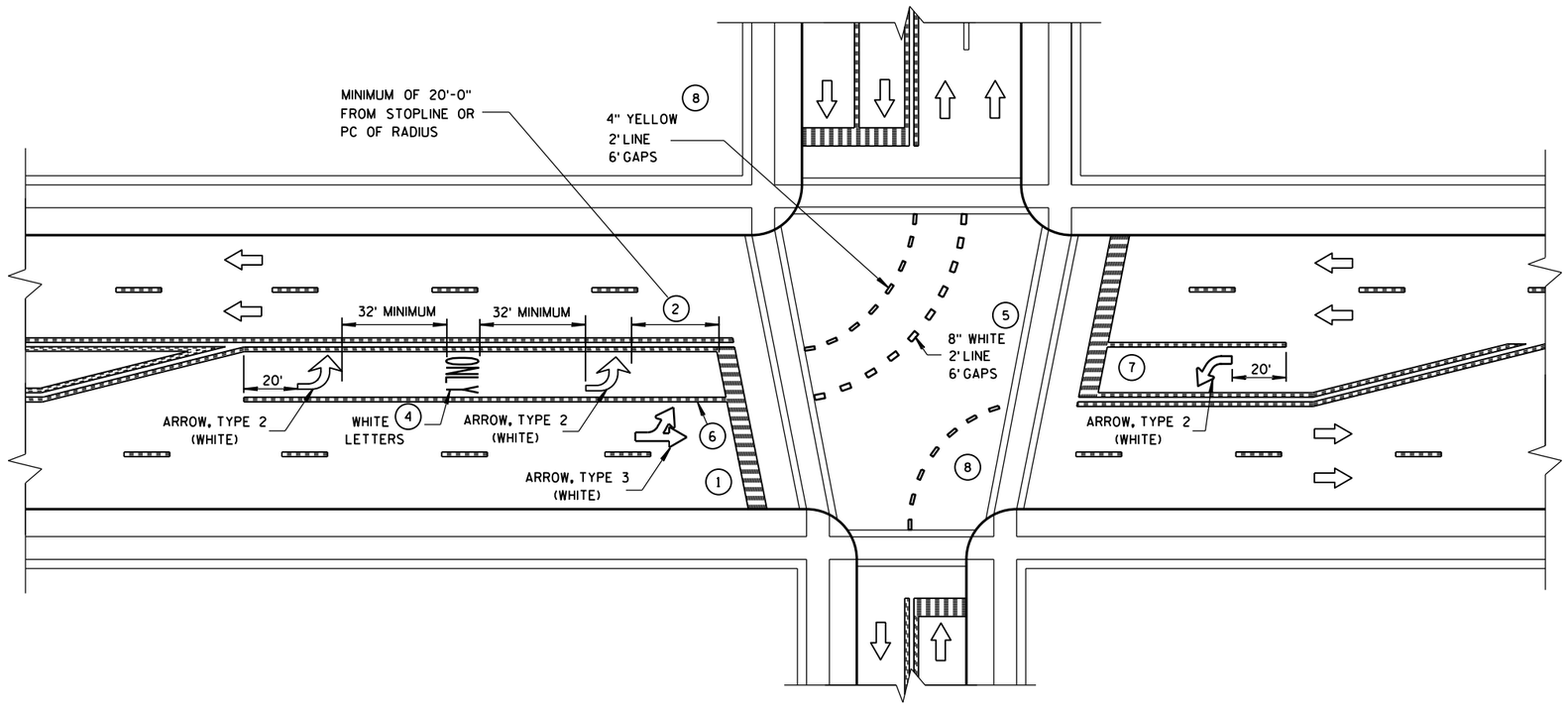
APPROVED
5-13-2013 DATE
/S/ Travis Feltes STATE TRAFFIC E
FHWA

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S.D.D. 15 C 8-16a

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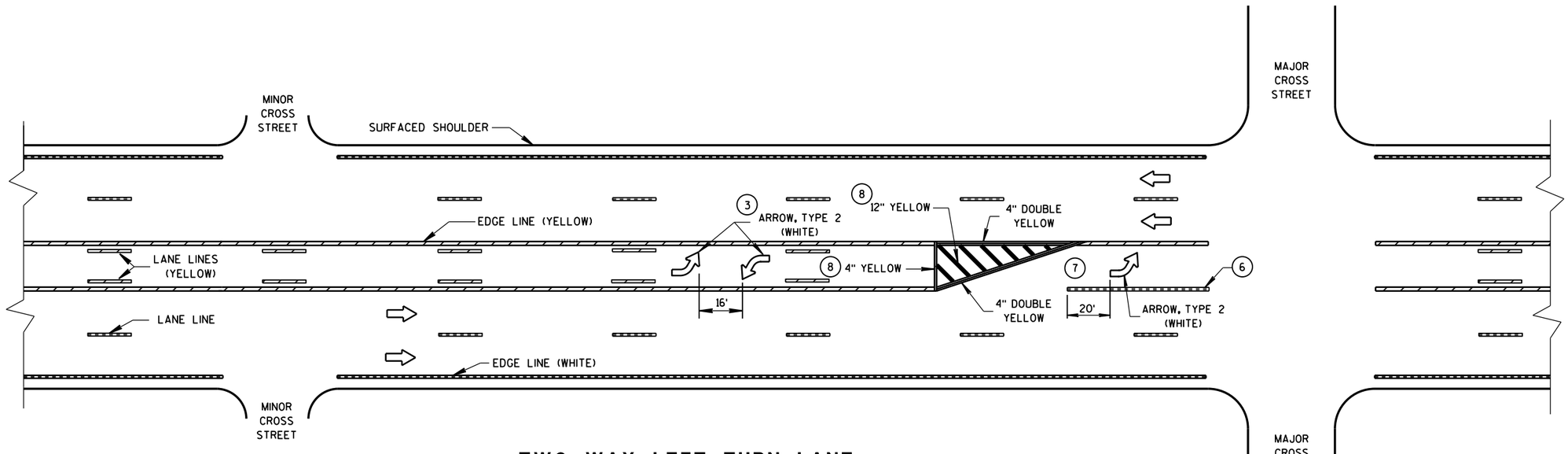
S.D.D. 15 C 8-16a



GENERAL NOTES

1. STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
3. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. ADD EXTRA SETS OF ONE ARROW AND ONE ONLY PER 160 FEET OR WHEN ON A CURVE.
5. 8" WHITE WITH 2' LINE 6' GAPS FOR DUAL TURN LANE.
6. 8" WHITE
7. ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108 FEET.
8. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (LEFT TURN LANE)

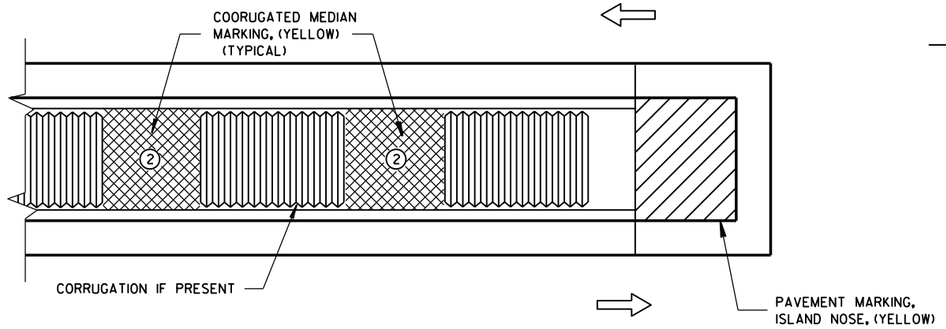
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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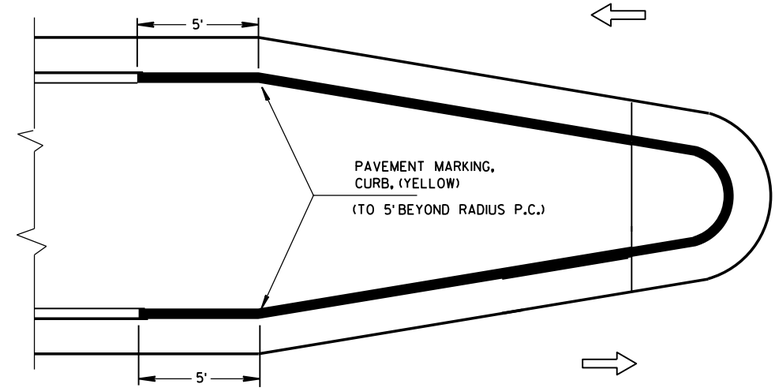
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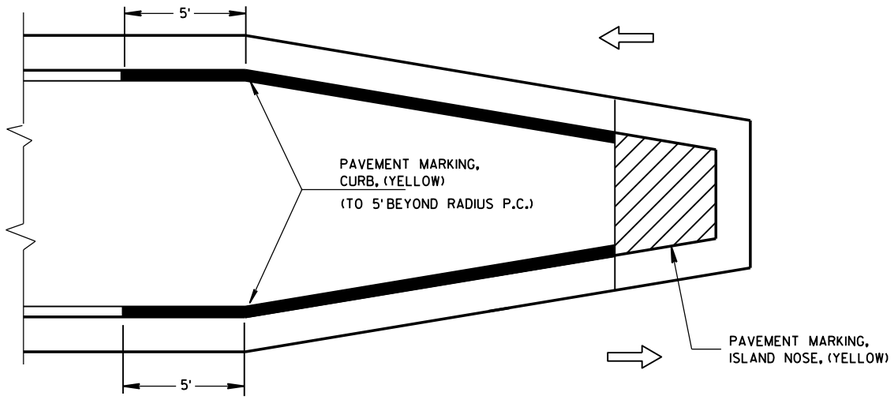
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MEDIAN ISLAND WITH SQUARE BLUNT NOSE

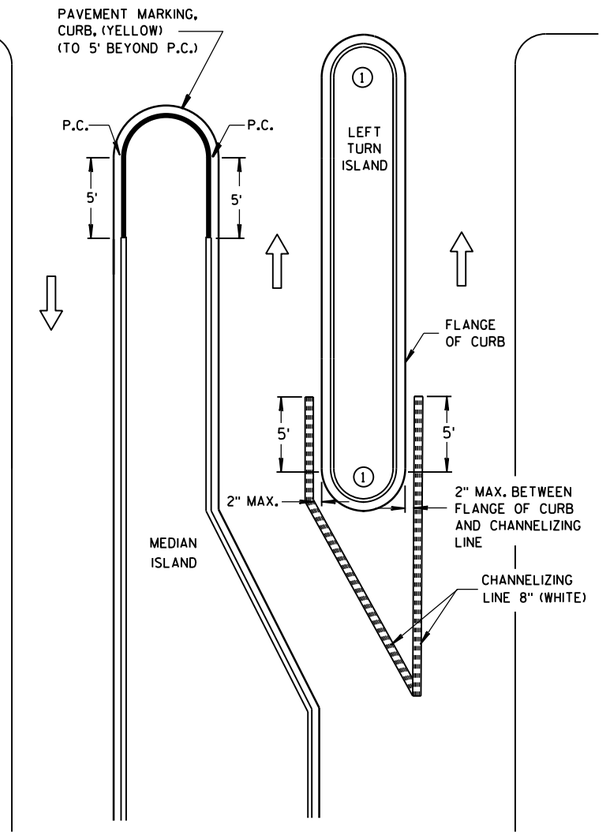


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

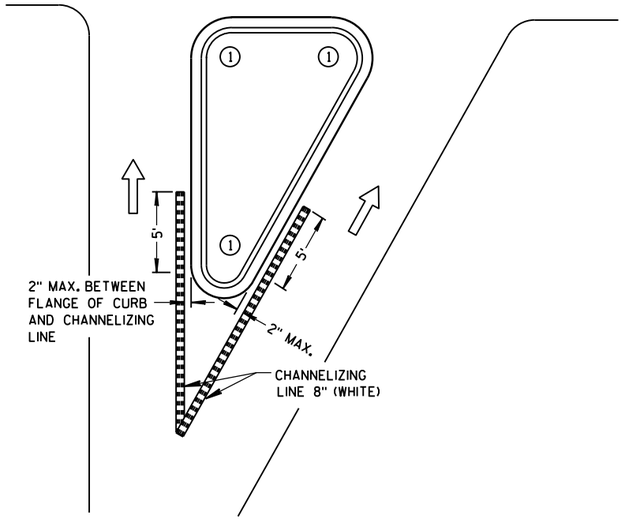


LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.

2. 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 AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND

LEGEND

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS)

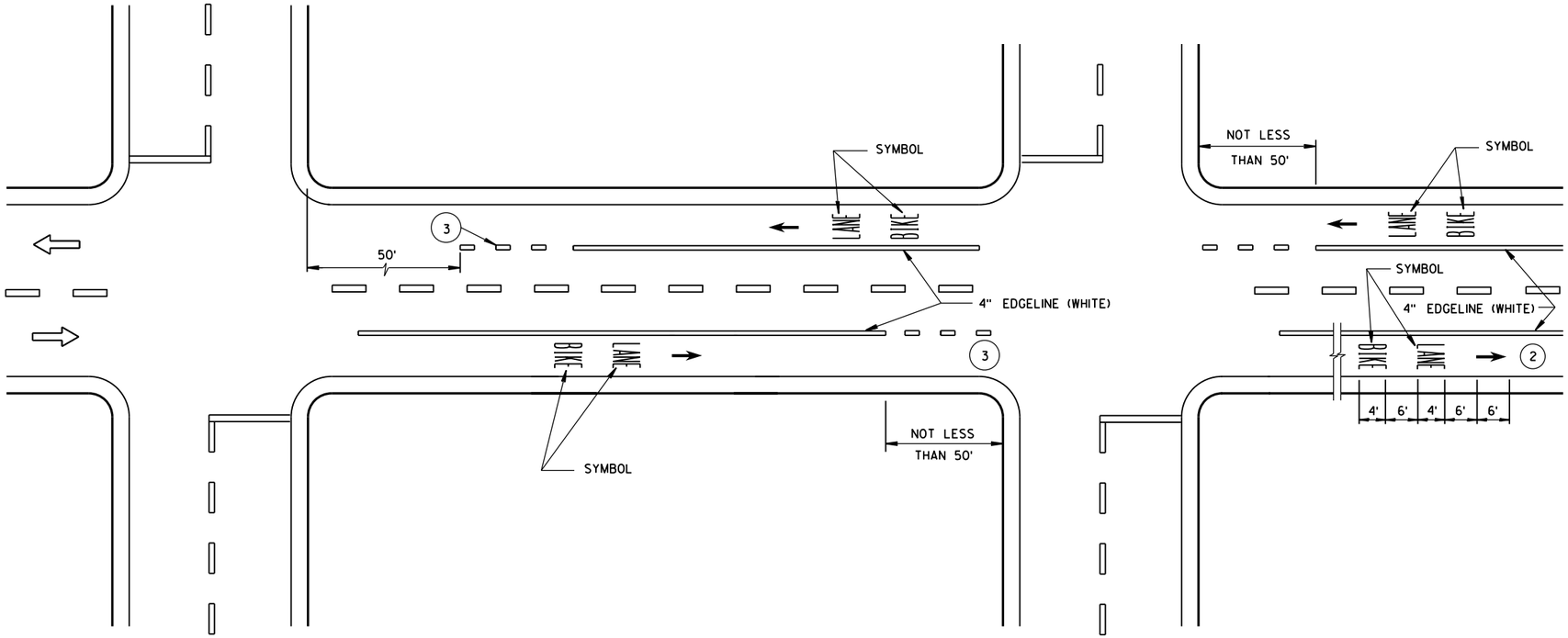
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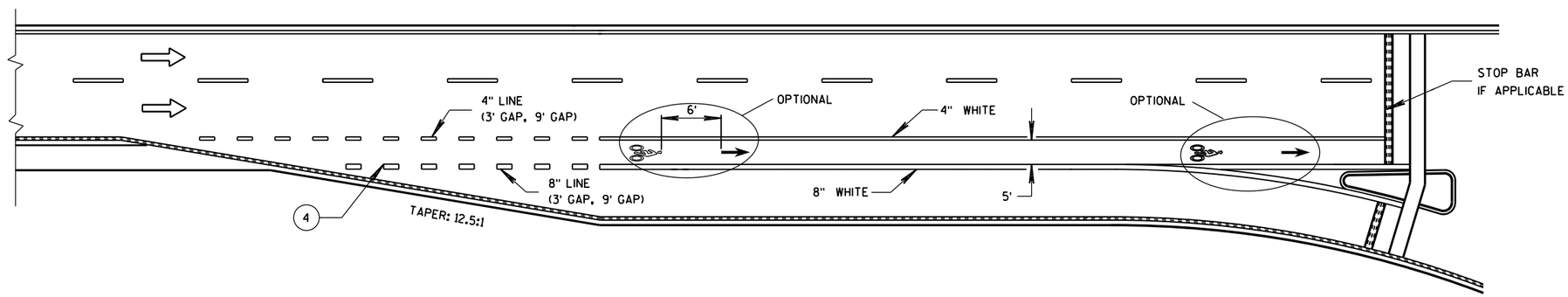


GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. MINIMUM OF ONE PER BLOCK. MAXIMUM OF 250 FEET.
3. DOTTED LINES (3'LINE, 9'GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. IF SIGNED AND/OR MARKED AS A BICYCLE FACILITY INCLUDE SECOND LINE OF LINE-SPACE MARKING, OTHERWISE DO NOT.

DIRECTION OF TRAVEL

DESIGNATED BICYCLE LANE
NO PARKING



BIKE LANE - 4-LANE DIVIDED WITH RIGHT TURN LANE

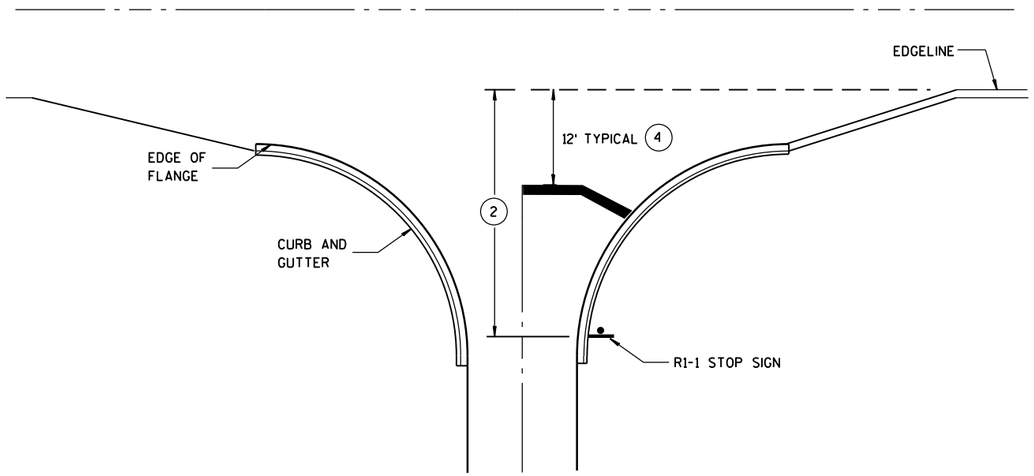
BICYCLE LANE MARKING

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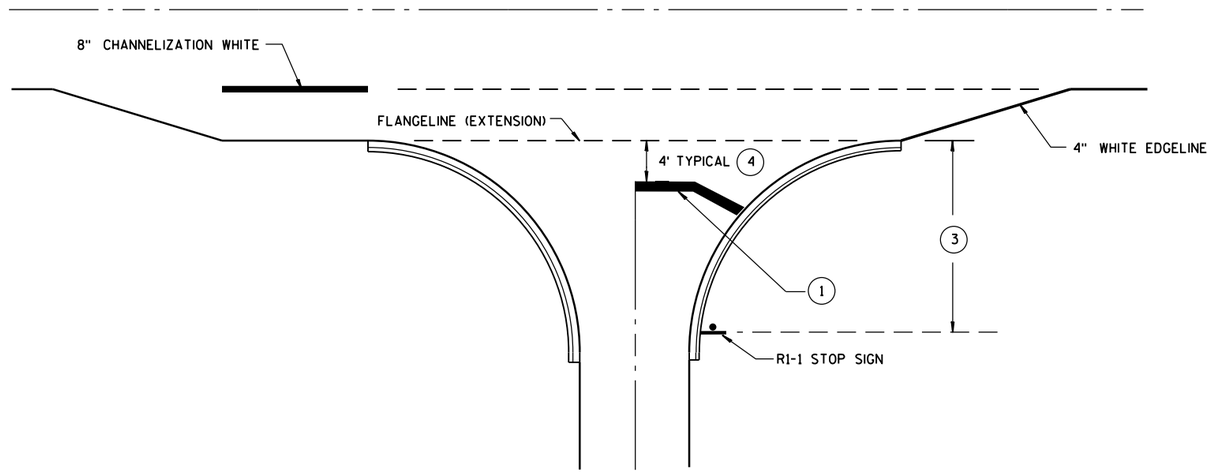
APPROVED
4-18-2016 DATE
/S/ Matthew R. Rauch
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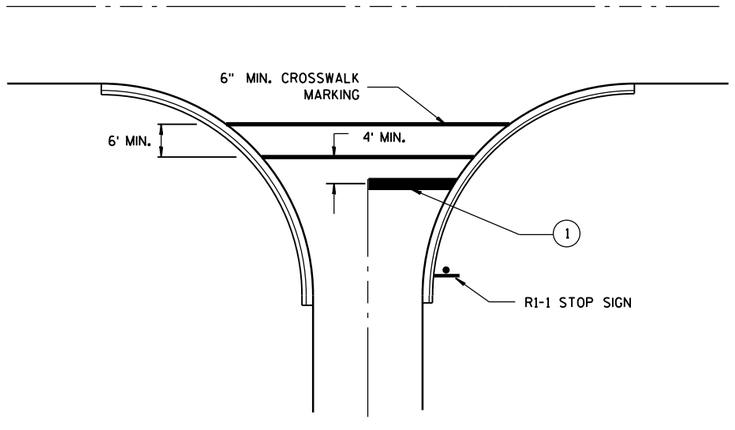
S.D.D. 15 C 29-4a



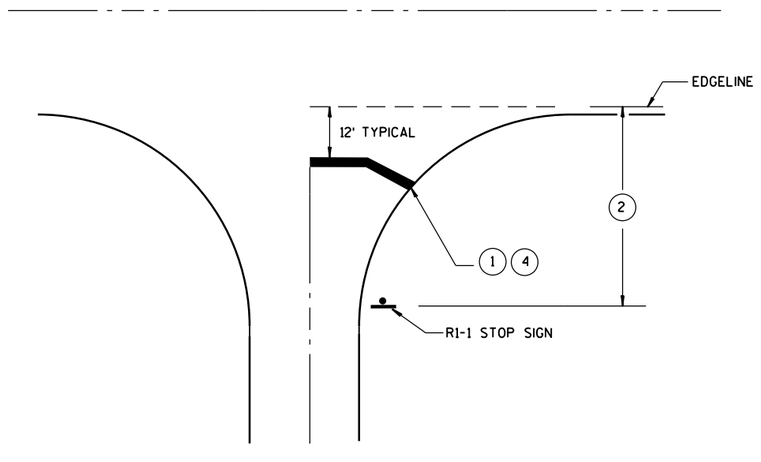
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



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

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

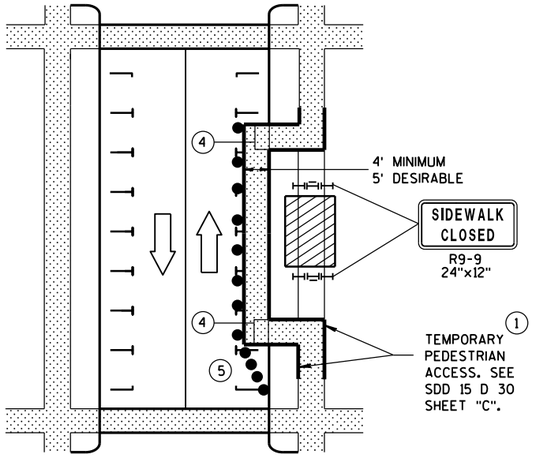
4-18-2016
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAR 220 NEER

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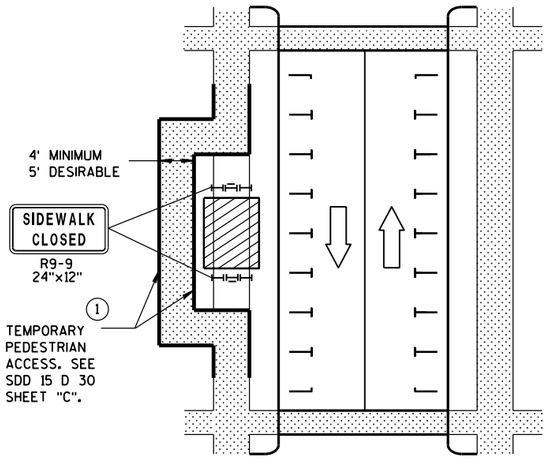
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S.D.D. 15 C 33-2

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

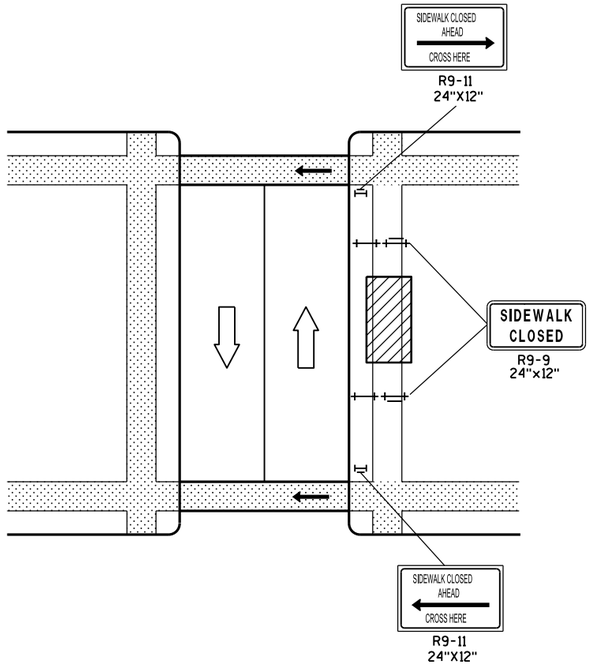


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

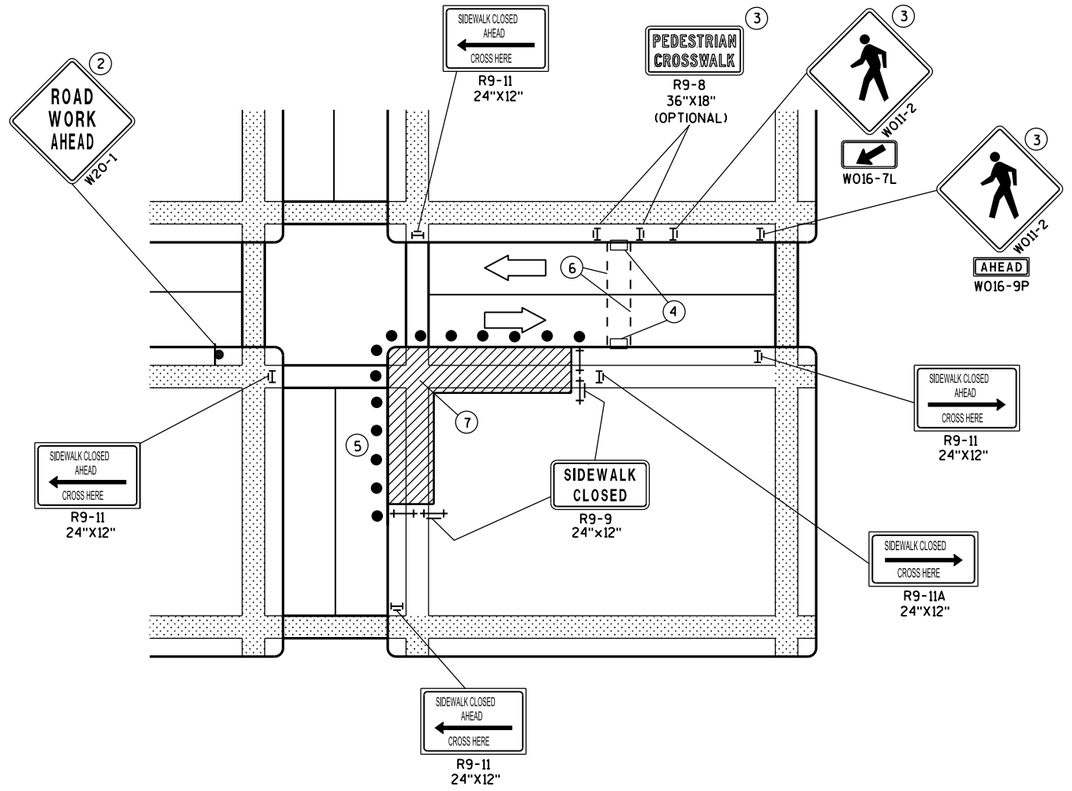
NOTE: LAYOUT SAME AS ABOVE.



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

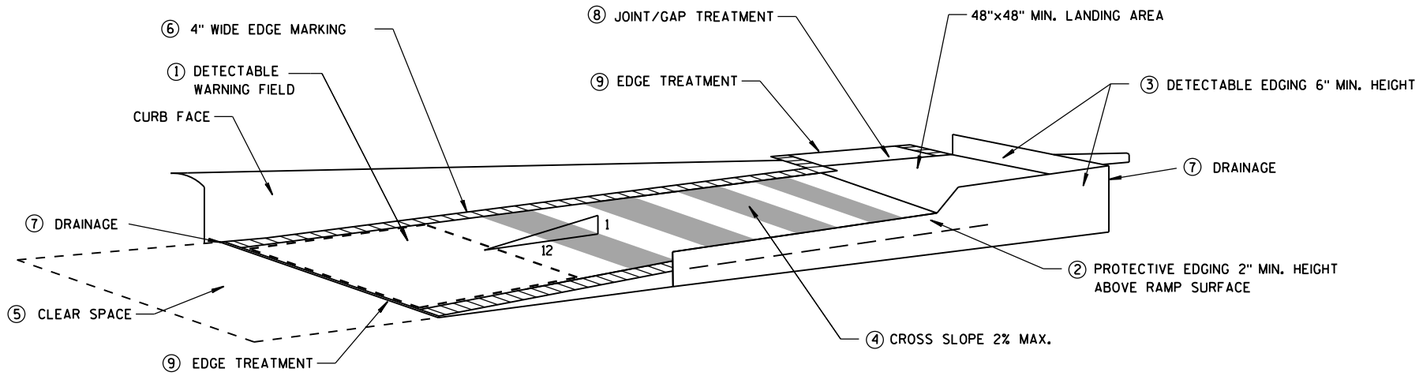
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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S.D.D. 15 D 30-3a

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S.D.D. 15 D 30-3a



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.

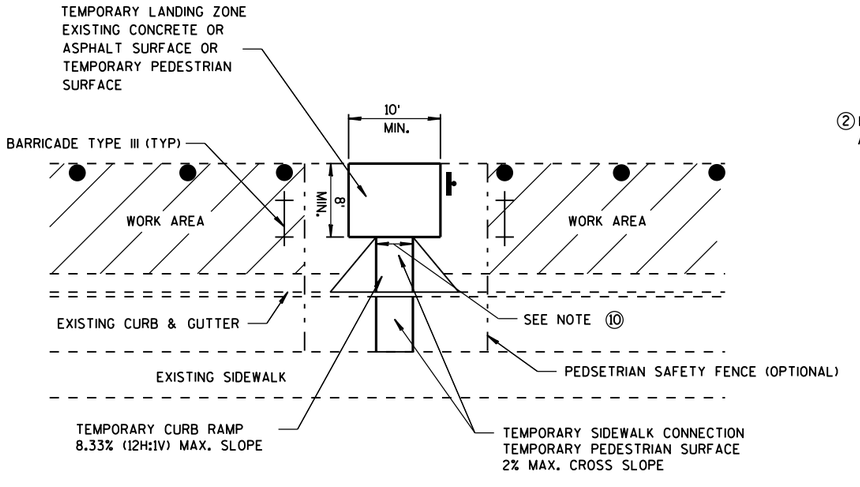
⑥ THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.

⑦ DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

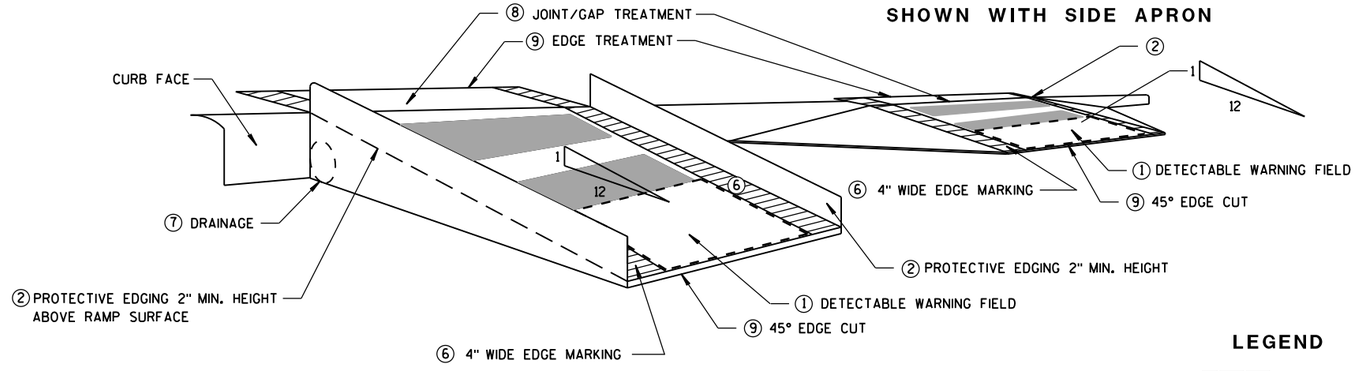
⑧ LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.

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 PROTECTIVE EDGE

SHOWN WITH SIDE APRON

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

June 2016 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

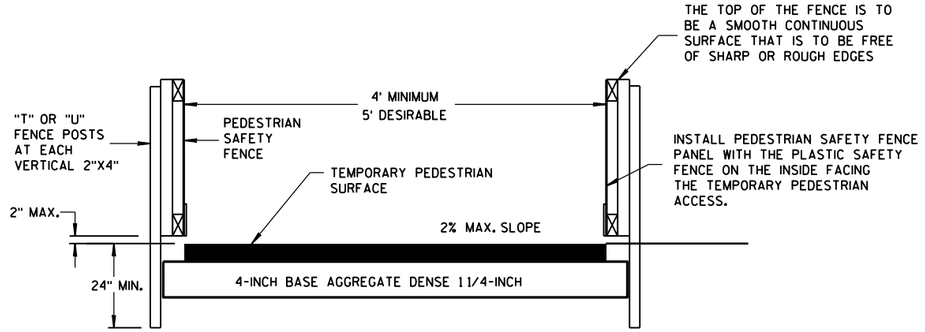
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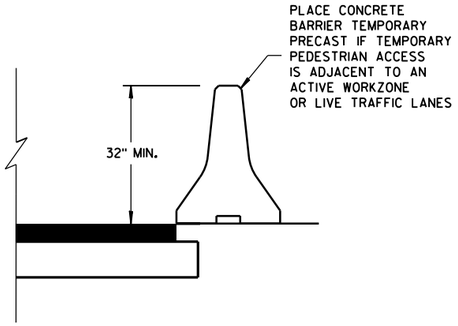
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S.D.D. 15 D 30-3b

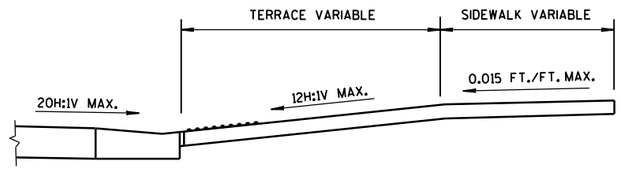




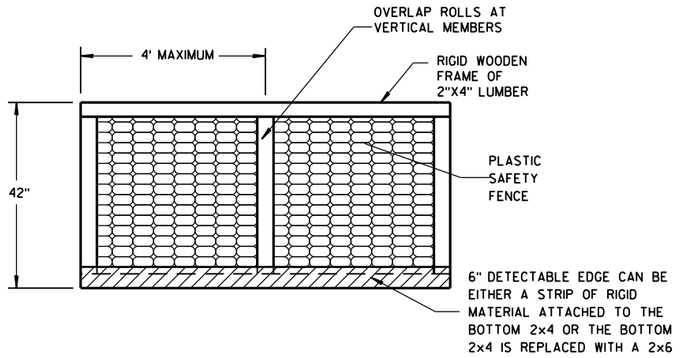
TEMPORARY PEDESTRIAN ACCESS

GENERAL NOTES

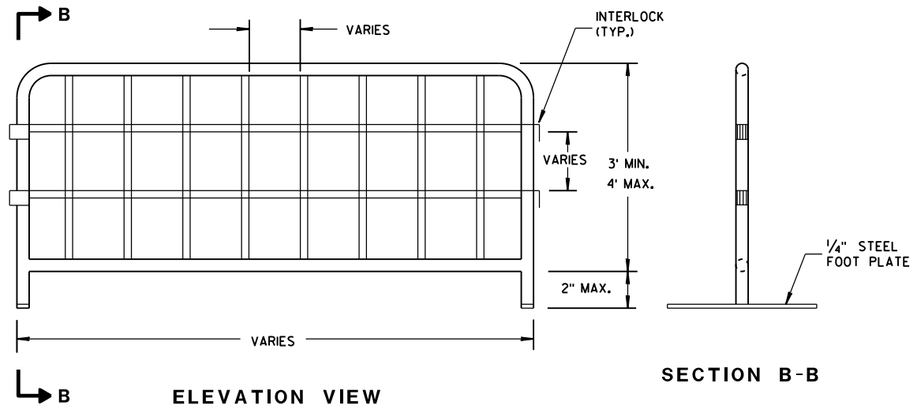
(1) INTERCHANGEABLE WITH THE PEDESTRIAN SAFETY FENCE.



SECTION A-A



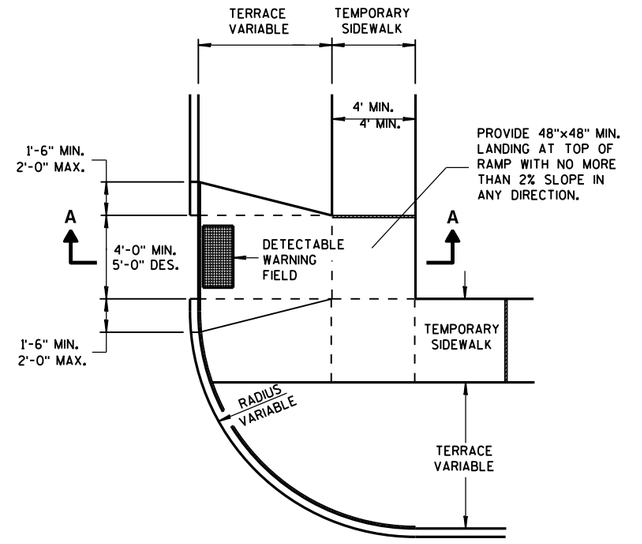
PEDESTRIAN SAFETY FENCE



ELEVATION VIEW

SECTION B-B

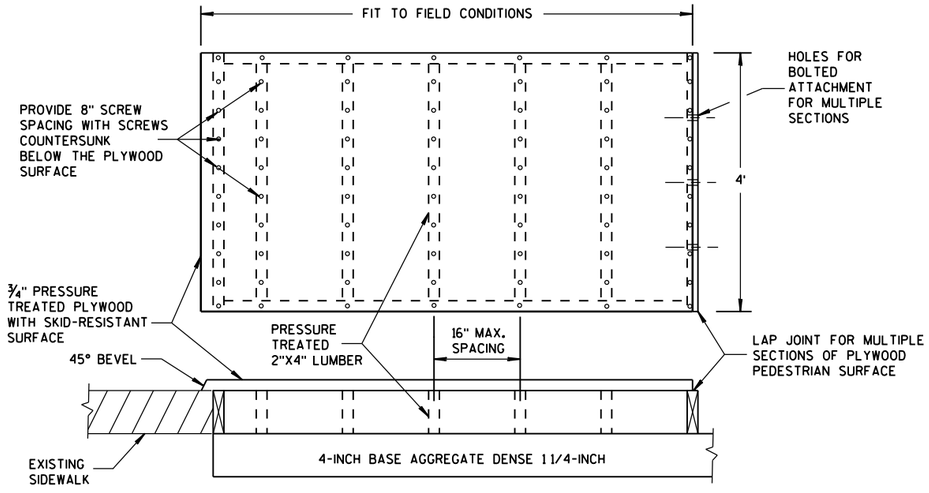
TEMPORARY PEDESTRIAN STEEL BARRICADE (1)



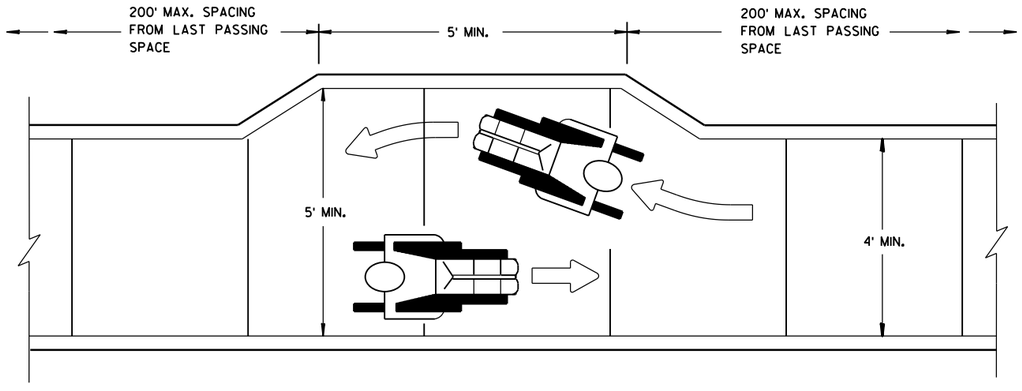
PLAN VIEW

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

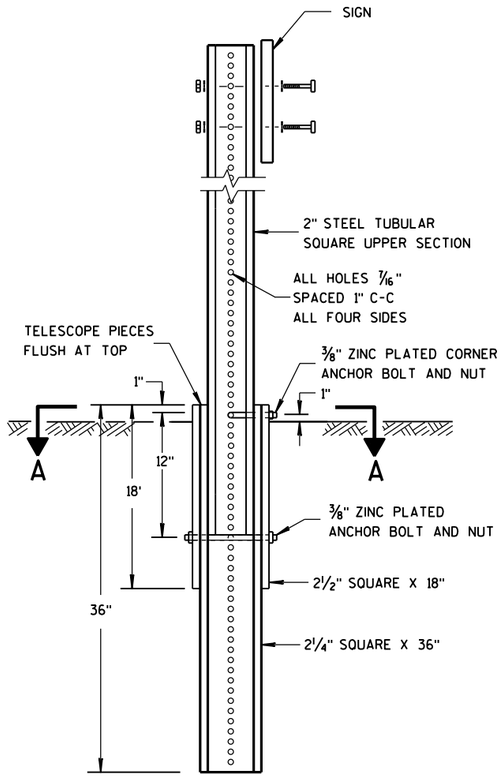
APPROVED
June 2016
DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZON SAFETY ENGIN IC
FHWA

6

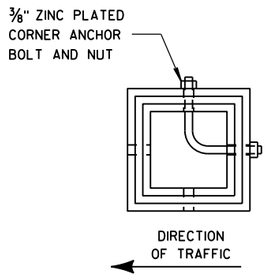
S.D.D. 15 D 30-3c

6

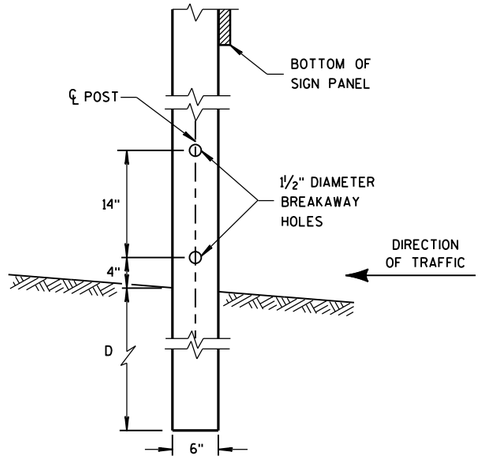
S.D.D. 15 D 30-3c



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



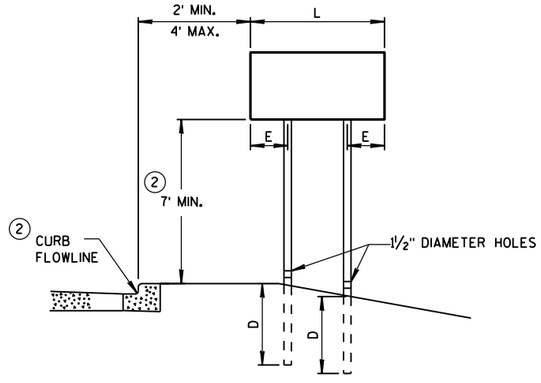
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

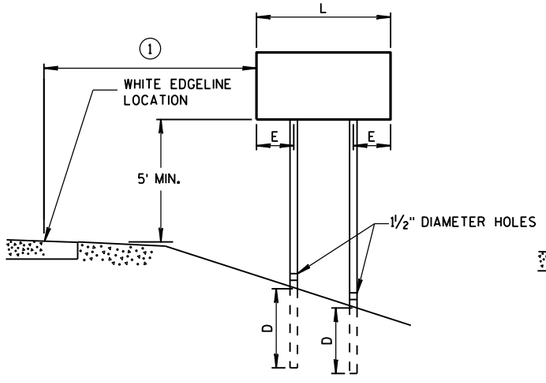
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

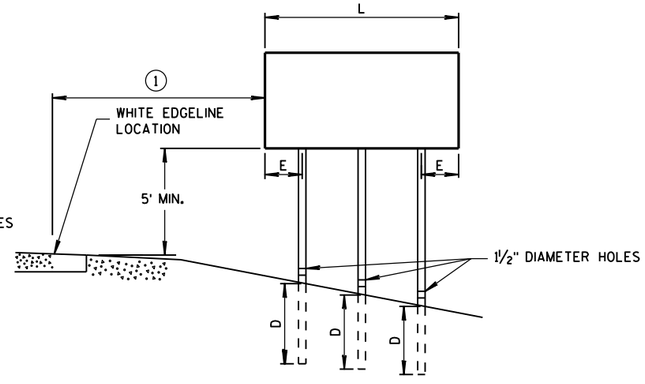
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK 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

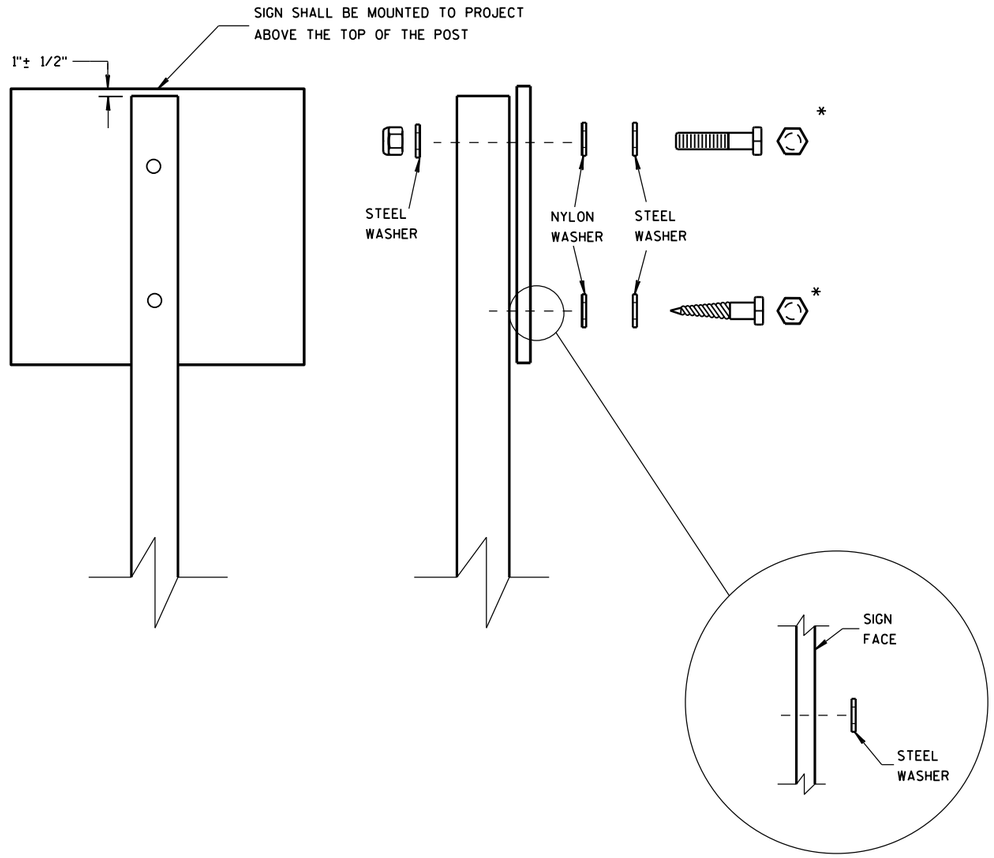
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

STATE OF WISCONSIN DEPARTMENT OF TRANSPO

6

S.D.D. 15 D 38-1a



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 38-1b

S.D.D. 15 D 38-1b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

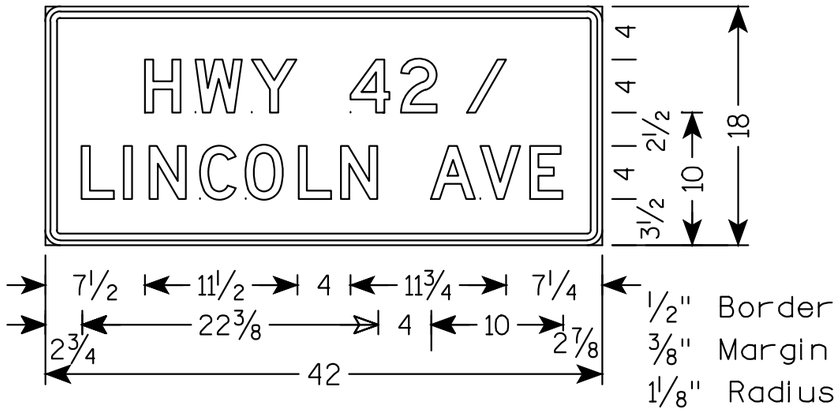
APPROVED

Feb. 2015 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER

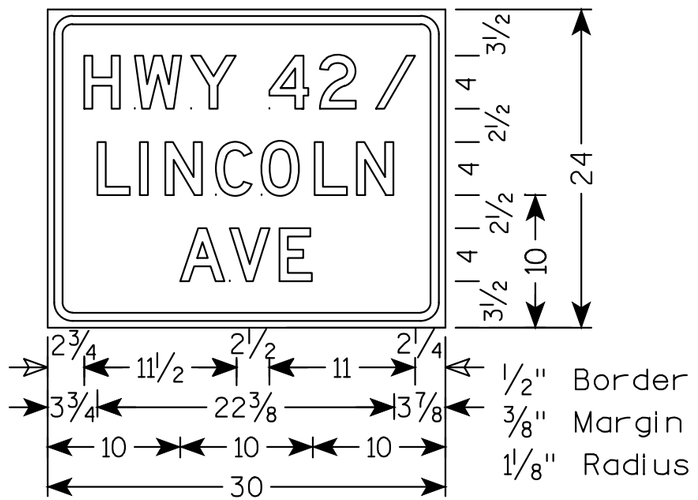
FHWA

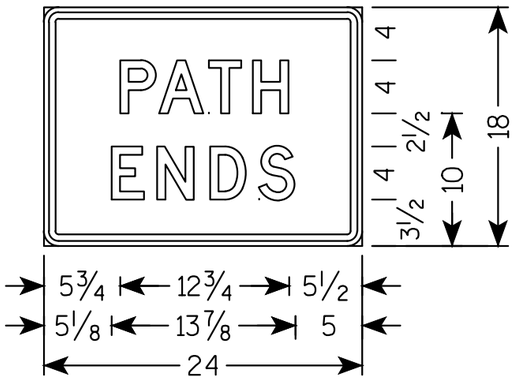
SIGN



NOTES

1. All Signs Type II - Type F Reflective
2. Color:
   Background - ORANGE
   Message - BLACK
3. Message Series - D





NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - D

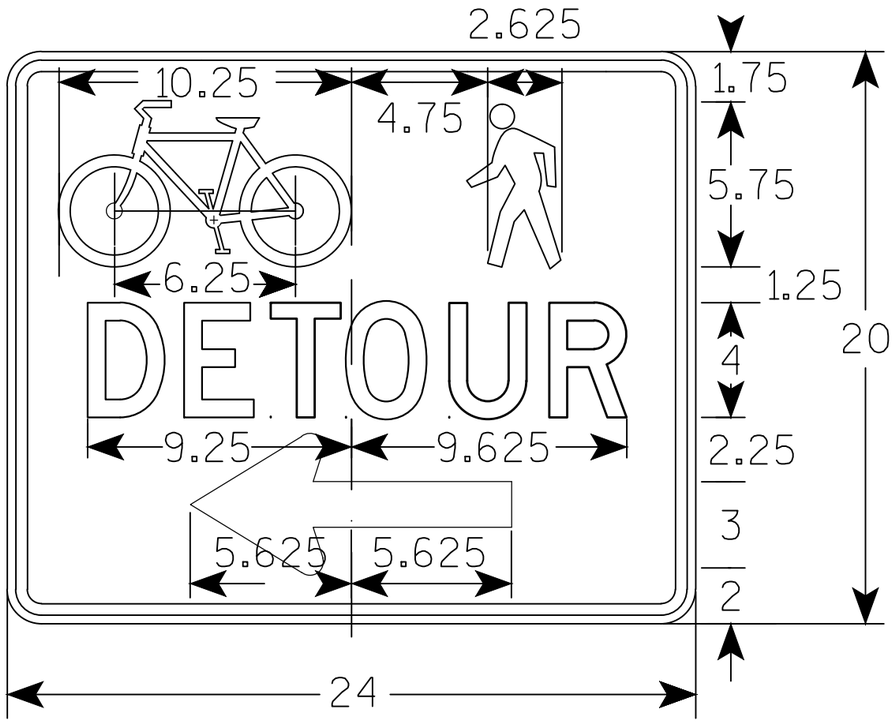
7

7

PROJECT NO:1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	SIGN PLATES	SHEET 226	E

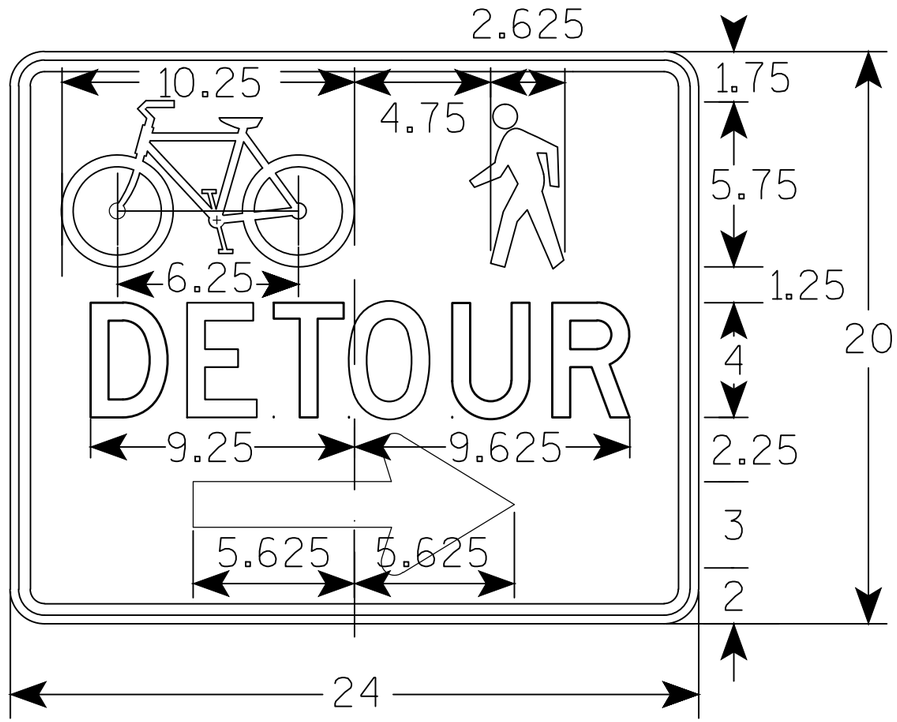
NOTES

1. All Signs are Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D except as Shown



M4-9BL (MOD)

1/2" Border
3/8" Margin
1 1/8" Radius



M4-9BR (MOD)

1/2" Border
3/8" Margin
1 1/8" Radius

7

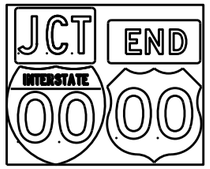
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PROJECT NO:1470-18-71	HWY: WIS 42	COUNTY:MANITOWOC	SIGN PLATES	SHEET 227	E

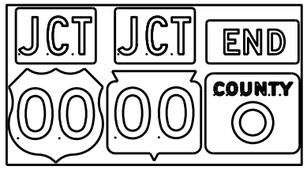
TYPICAL ASSEMBLIES



J1-1



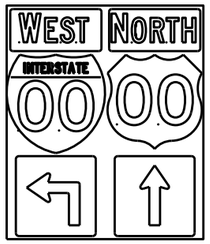
J1-2



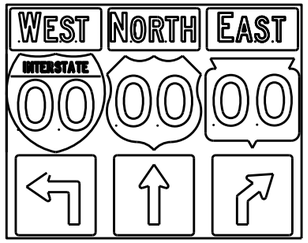
J1-3



J2-1



J2-2

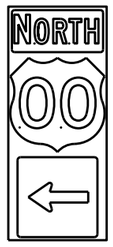


J2-3

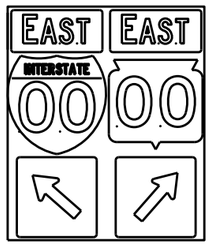


JV

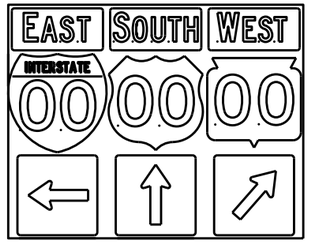
(Typical Vertical J-Assembly
See Note 10 and 11)



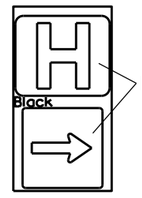
J3-1



J3-2



J3-3

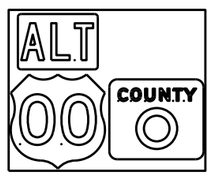


Blue Background

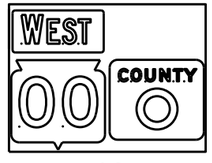
JH-1



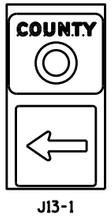
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

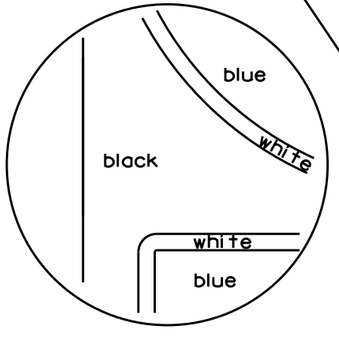


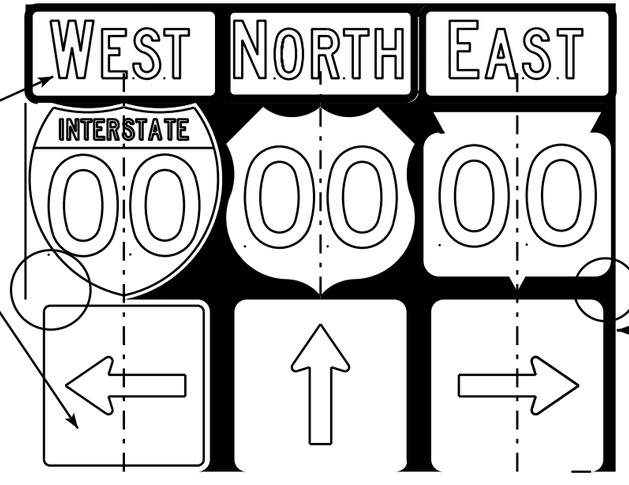
J23-1

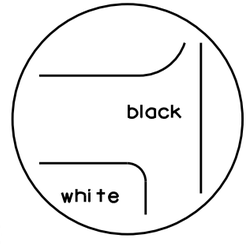


J22-1

[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

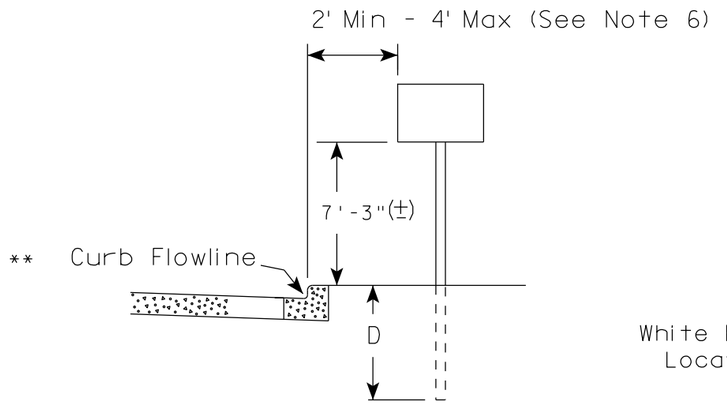
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/06/14 PL... A2-1S.8

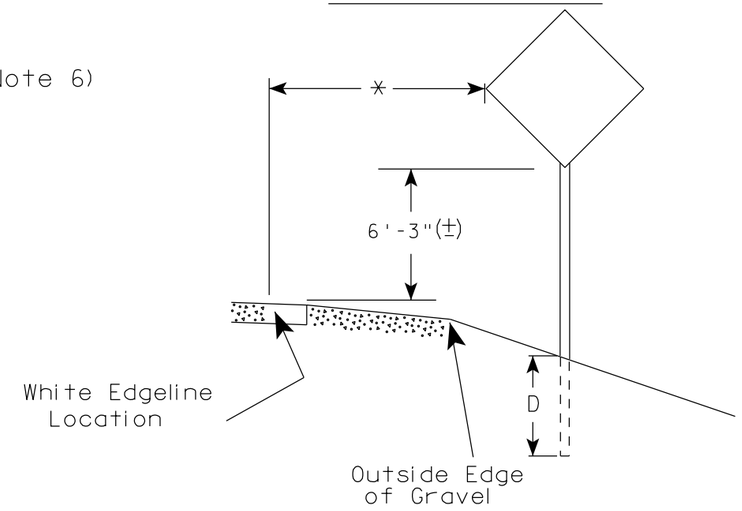
PROJECT NO: | SHEET NO: E

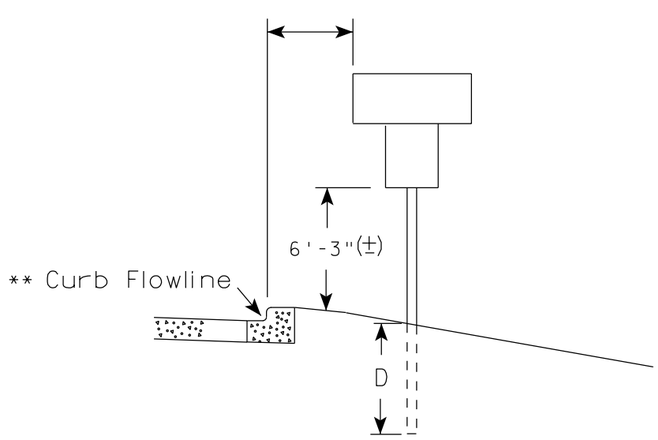
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :
WISDOT/CADDS SHEET 42

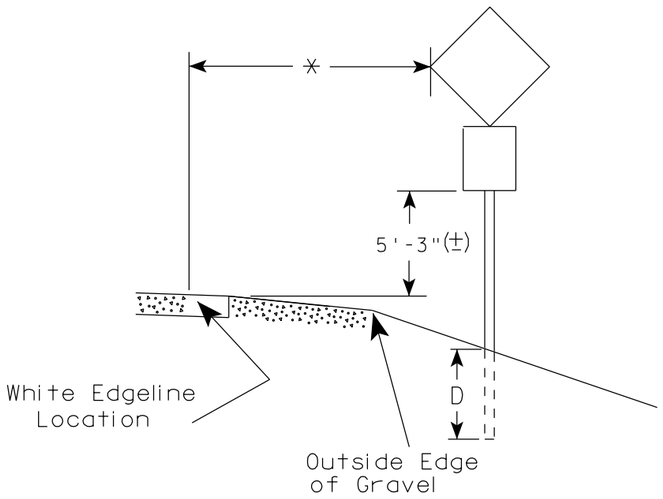
URBAN AREA



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. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
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" (±).

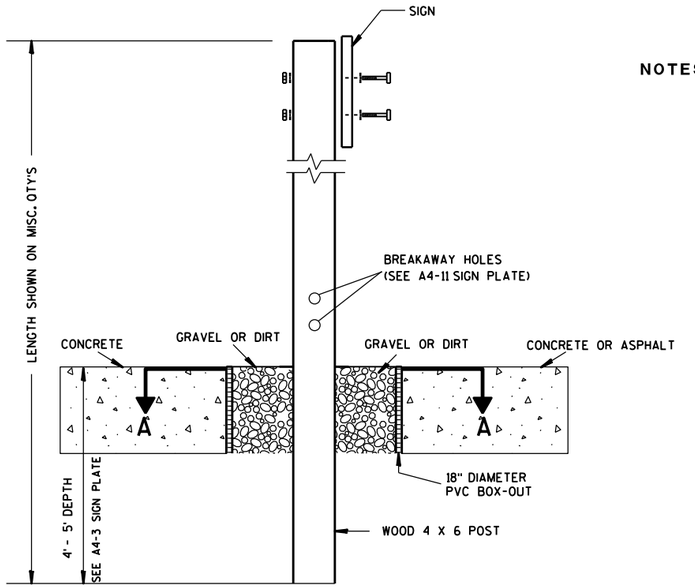
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20

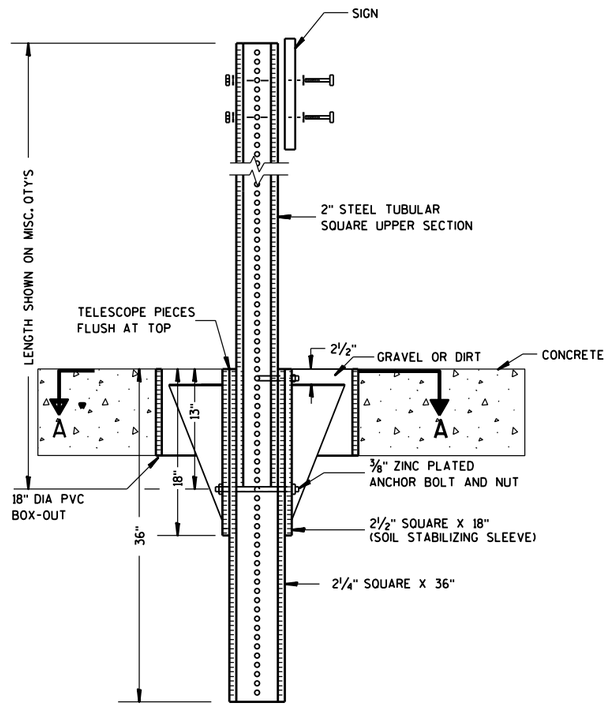
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



ELEVATION VIEW

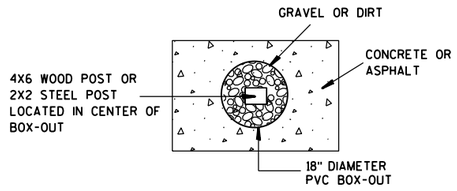
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

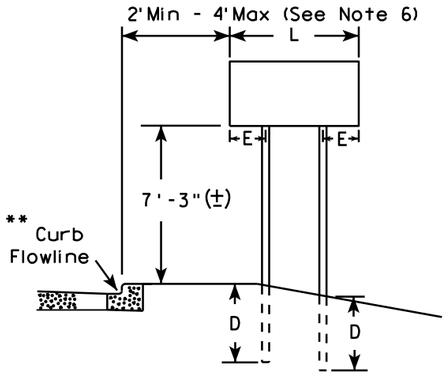
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

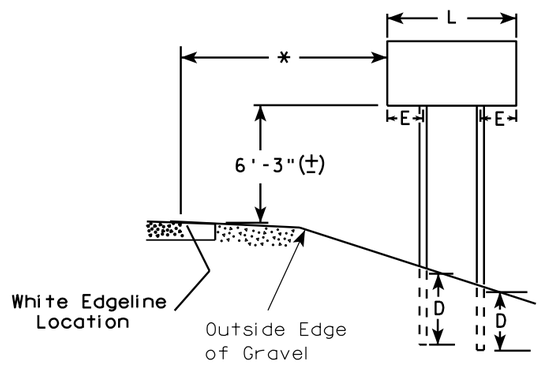
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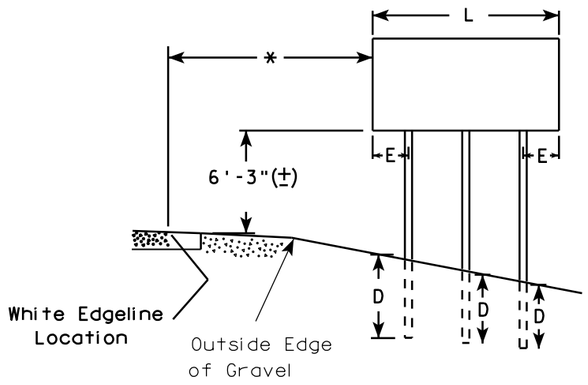
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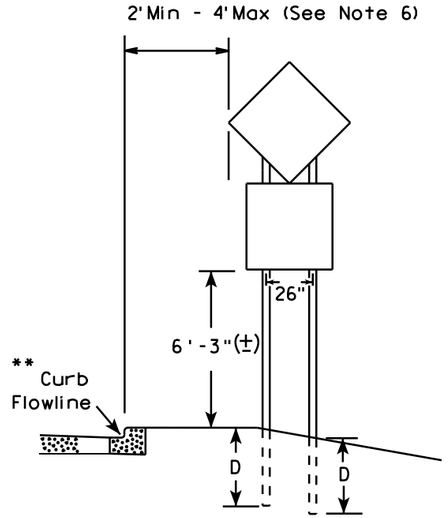
URBAN AREA



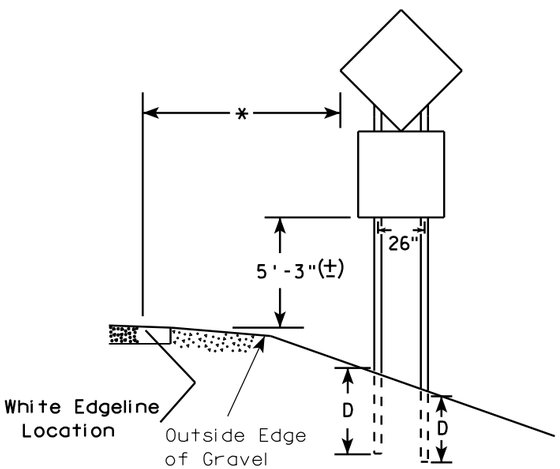
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

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. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
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.

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 120"	L/5

***

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

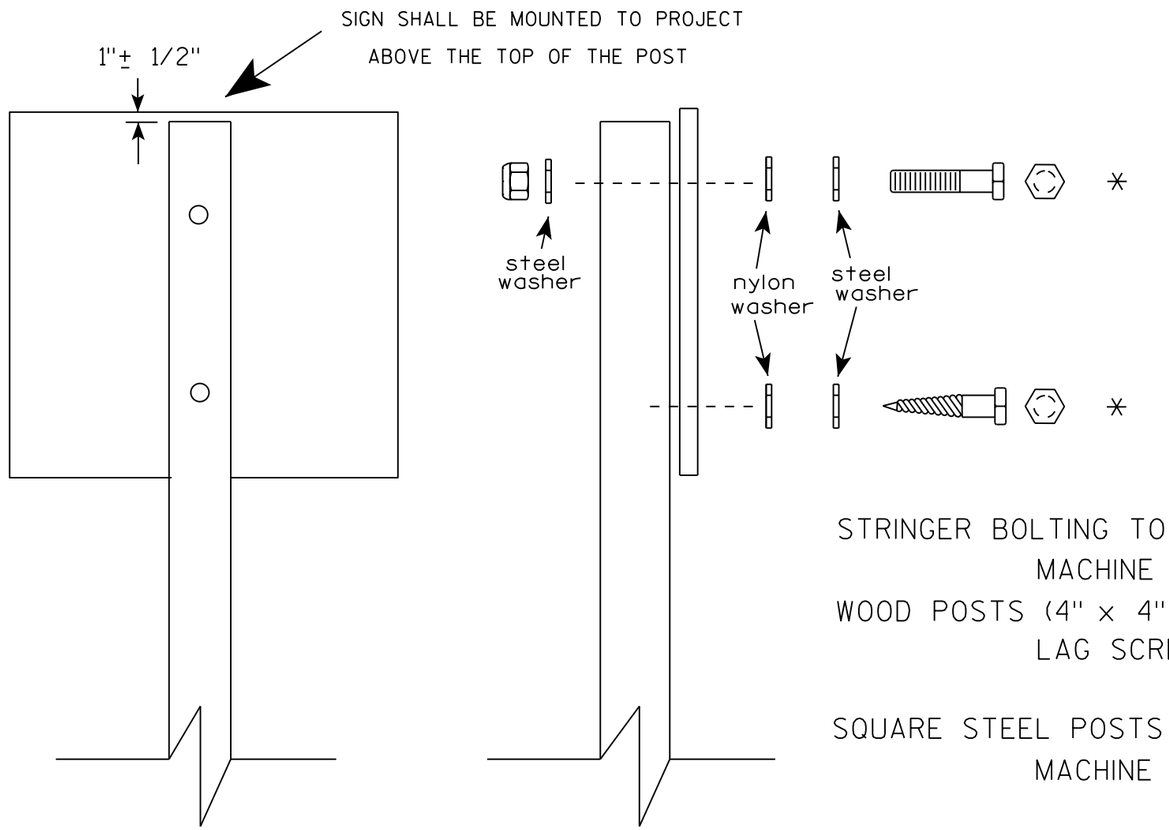
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-4 231 14

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	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

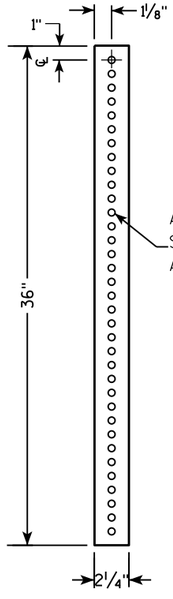
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

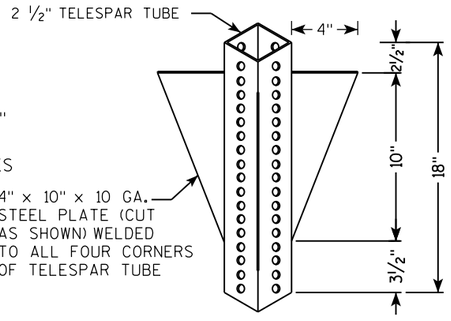
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

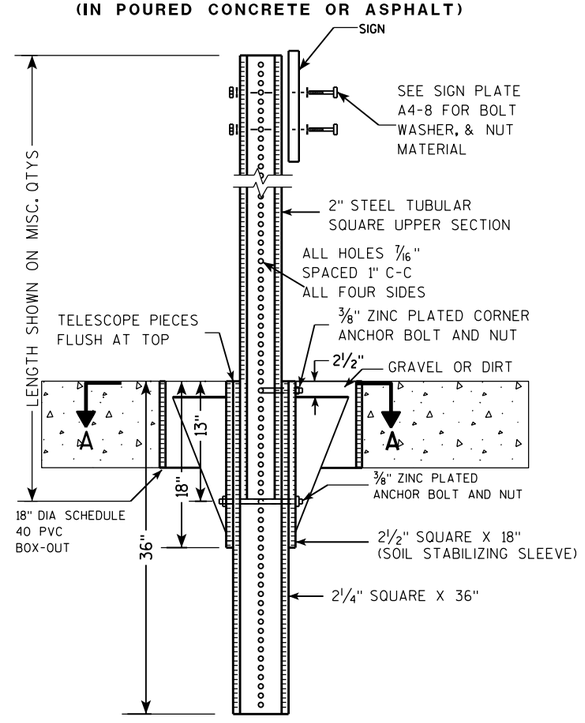
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



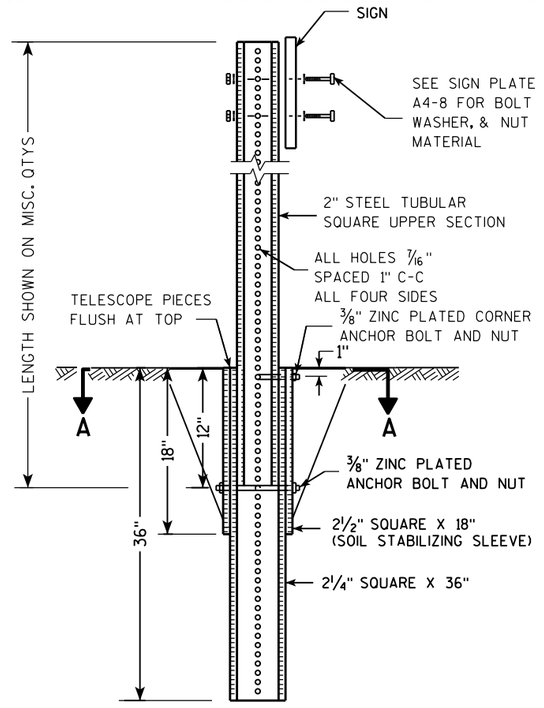
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

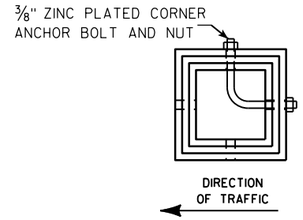


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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).

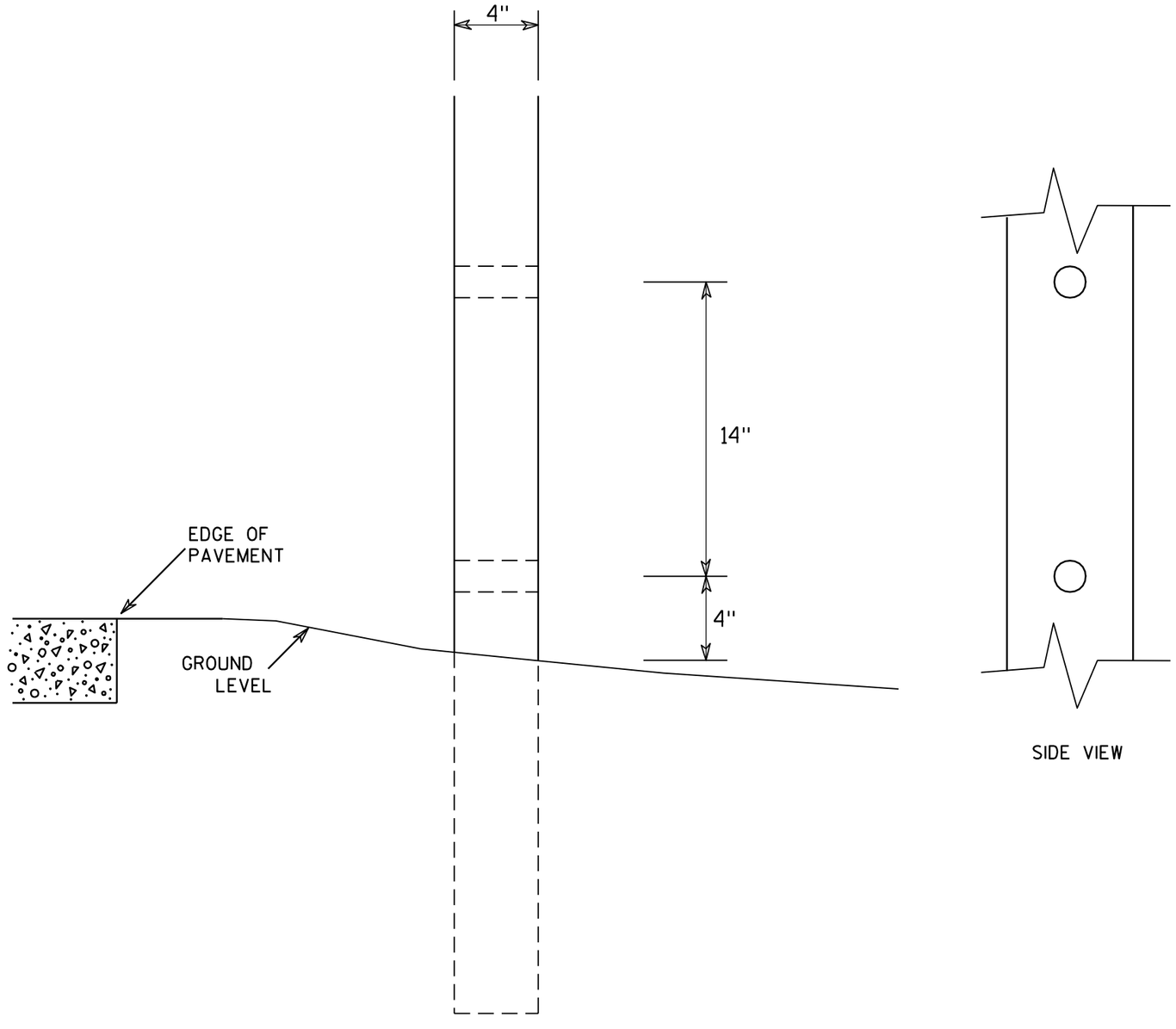
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 233 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

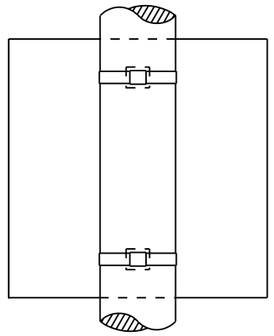
APPROVED Chester J Spang
for State Traffic Engineer

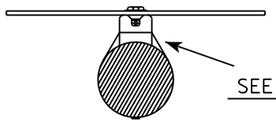
DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 234	E

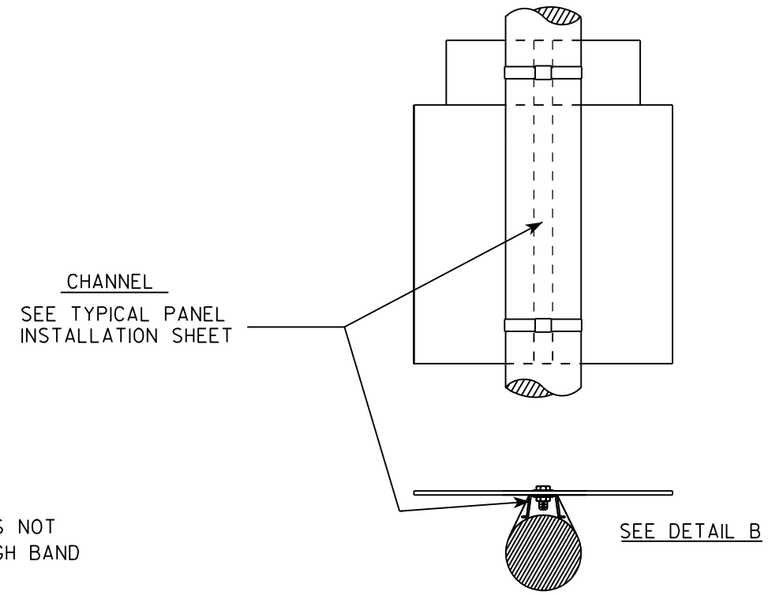
BANDING

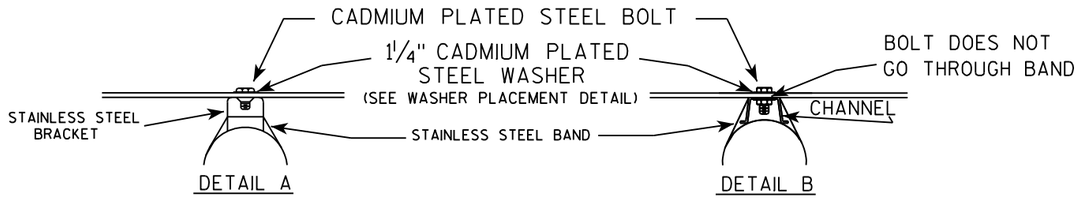
SINGLE SIGN



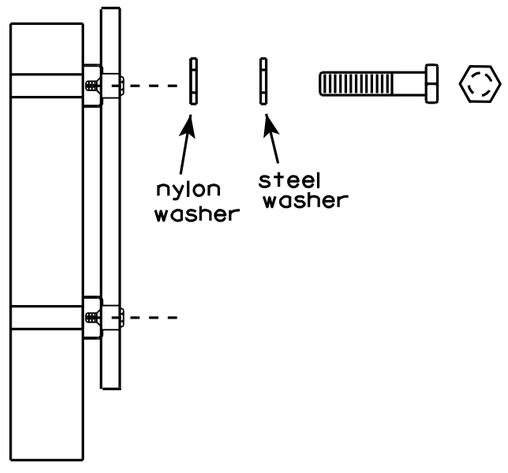


"J" ASSEMBLY





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.

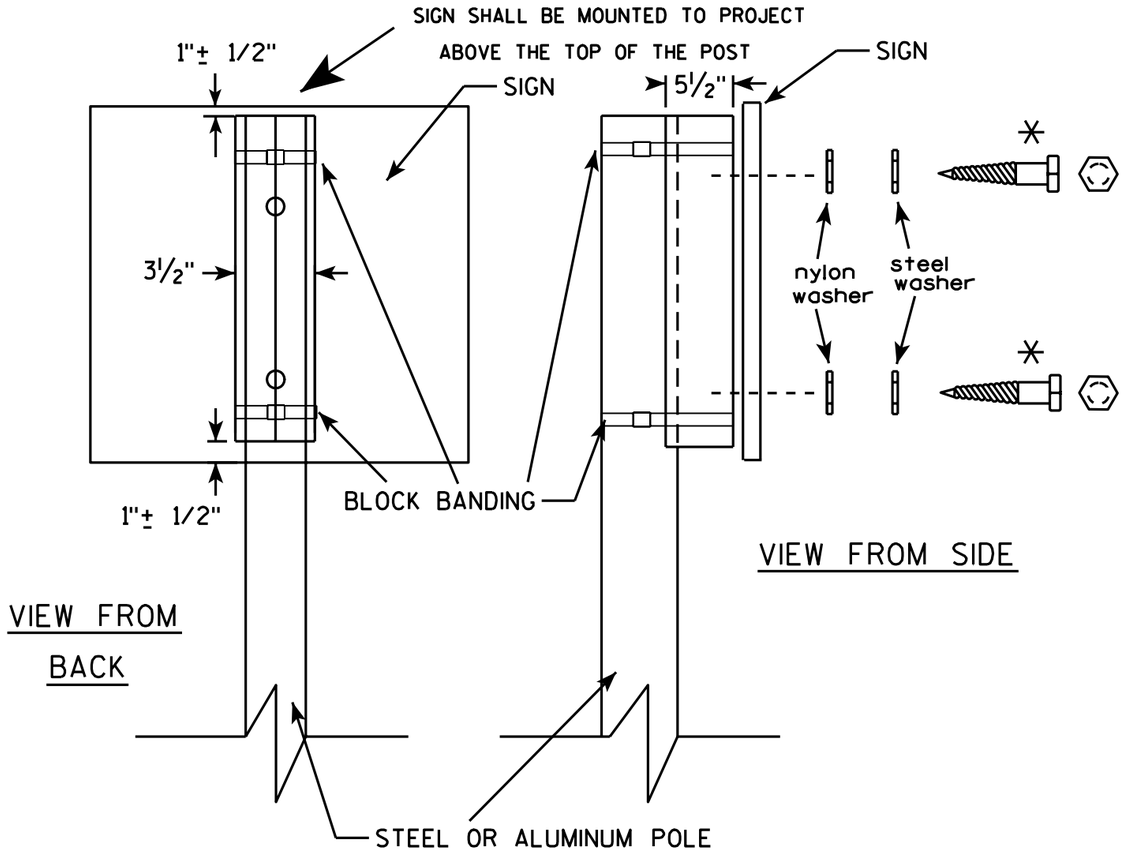
STANDARD SIGN
SIGN BANDING DETAILS

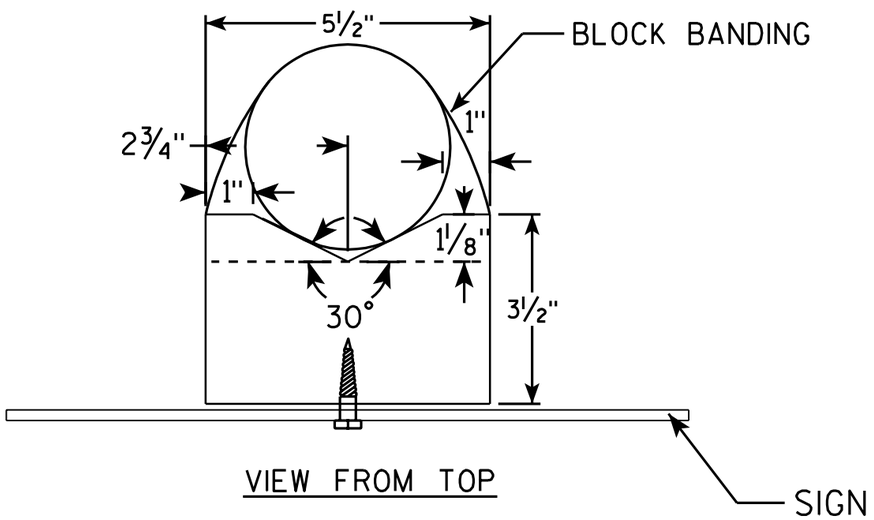
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 235	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

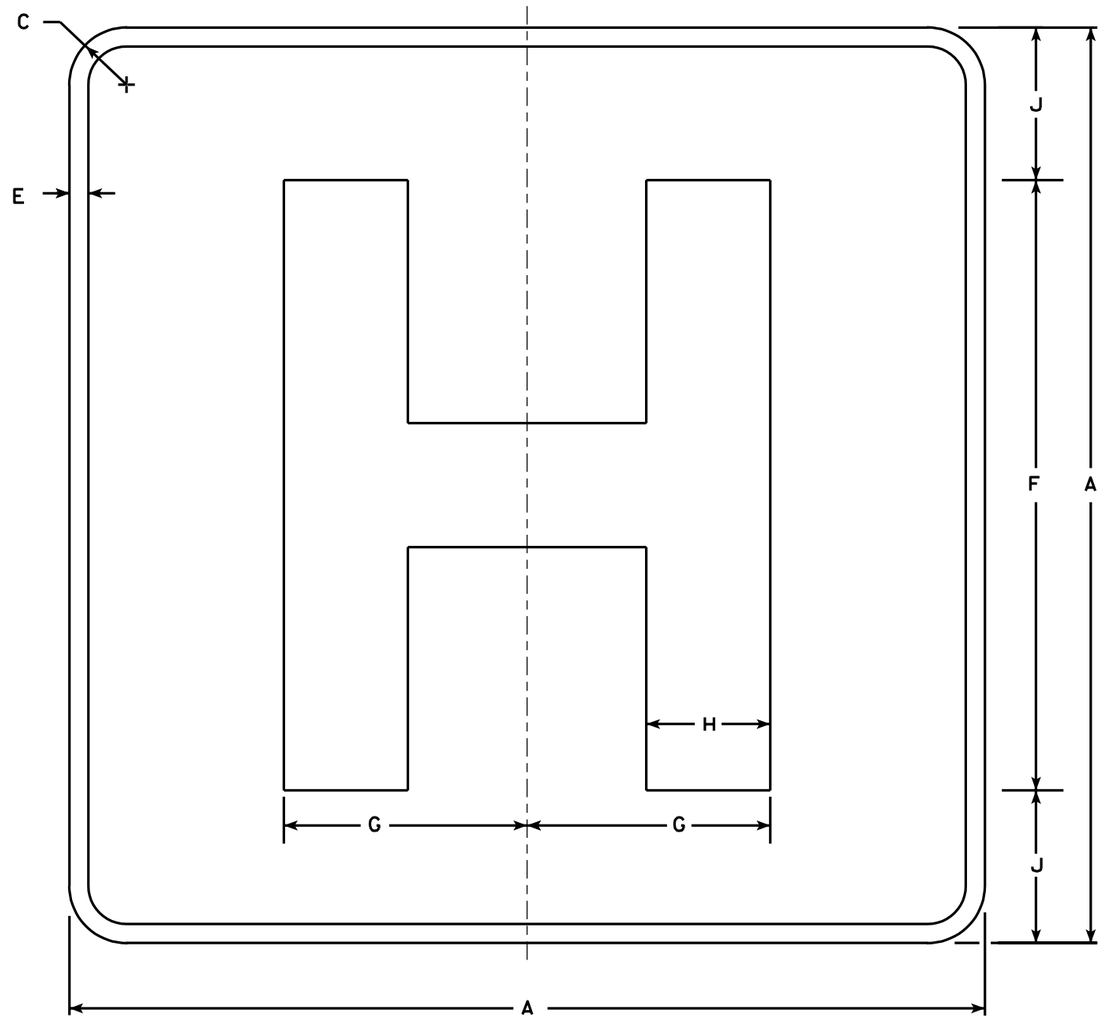
DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

SHEET NO: 236 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

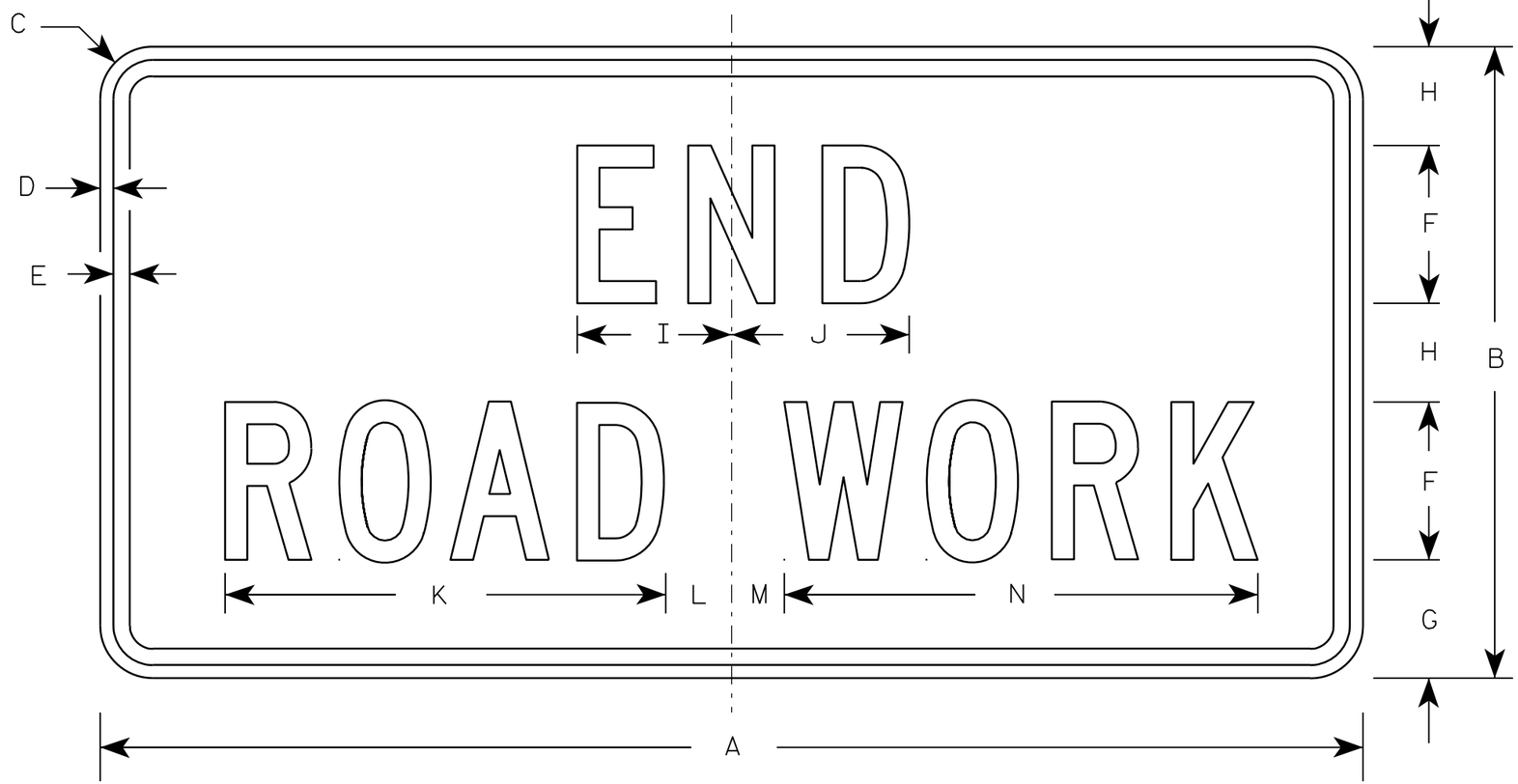
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spong
for State Traffic Engineer

DATE 1/15/02 PLATE NO. D9-2.4

PROJECT NO:

SHEET NO: 237 E



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

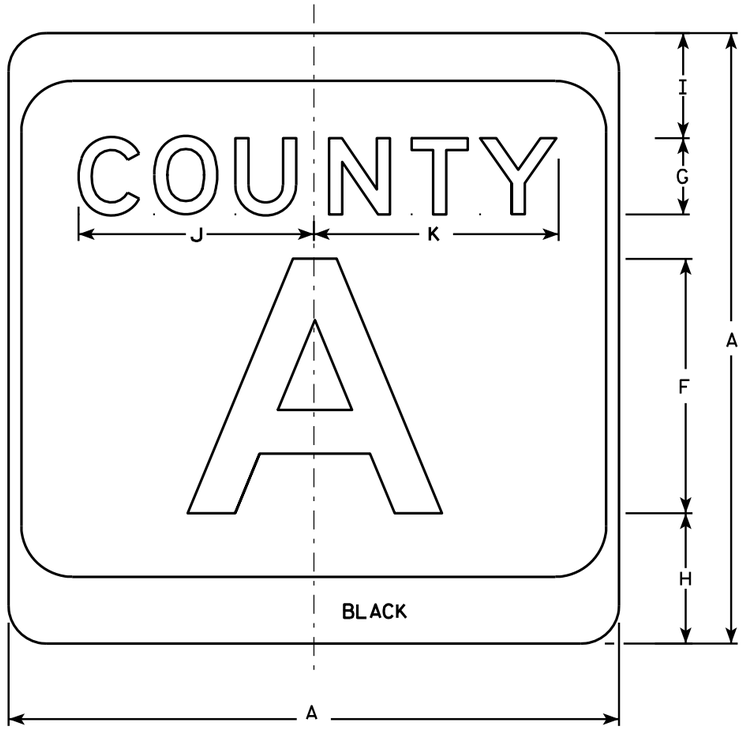
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

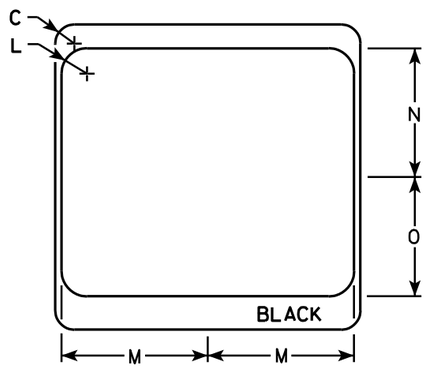
APPROVED Matthew R Rauch
for State Traffic Engineer

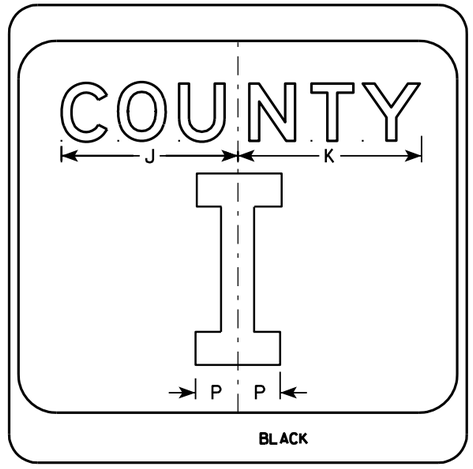
DATE 9/30/09 PLATE NO. G20-2A.8

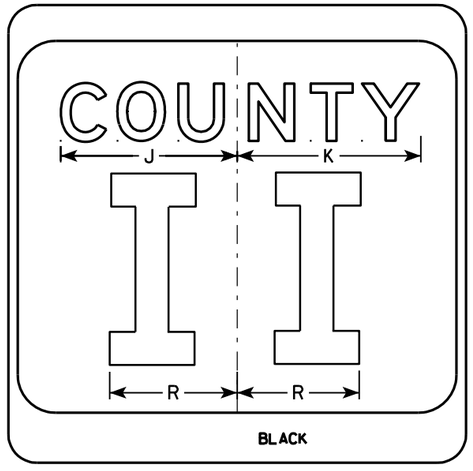
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 238	E



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

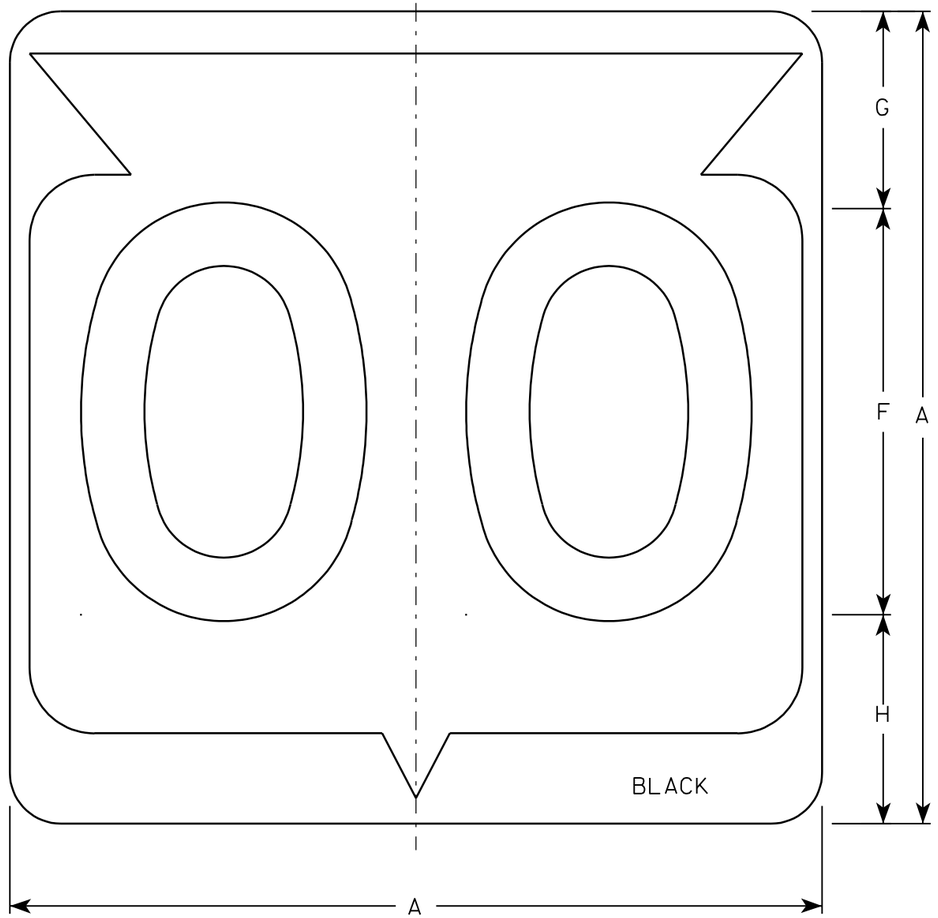
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

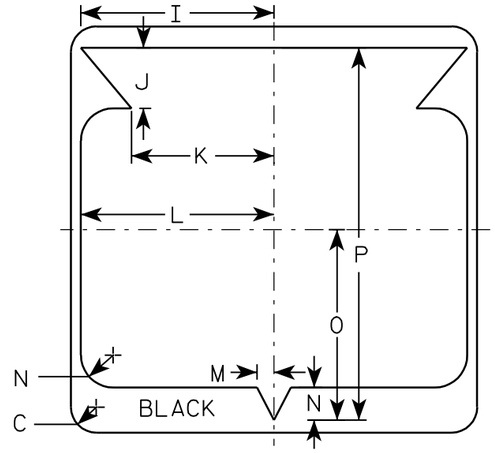
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 239	E



M1-6

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   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. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective



Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 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																												
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	.36
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	.81
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	.81
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	.81

STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 240	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

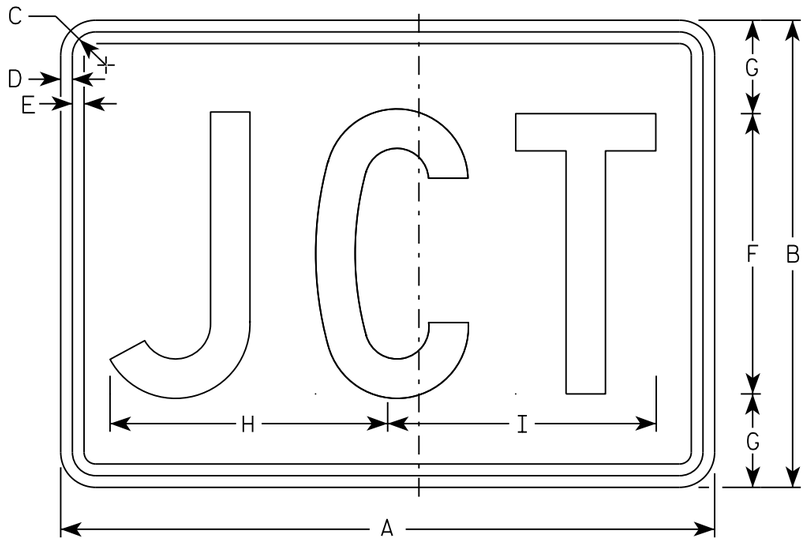
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

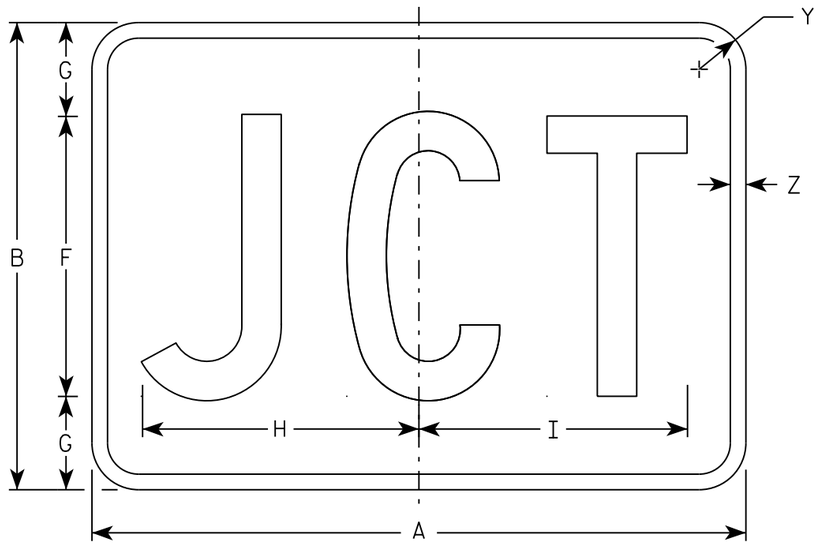
DATE 11/5/15 PLATE NO. M1-93.2

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

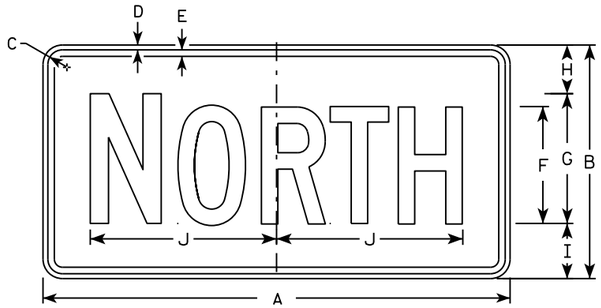
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

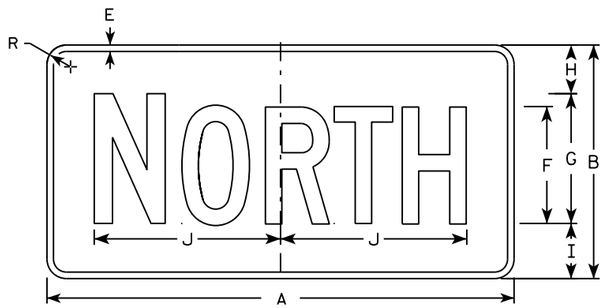
DATE 10/15/15 PLATE 242 12-1.12

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



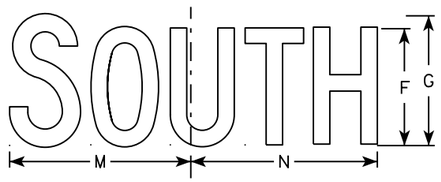
MB3-1
MK3-1
MN3-1



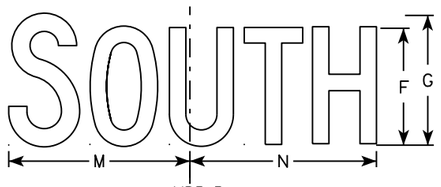
M3-2
MM3-2
MP3-2



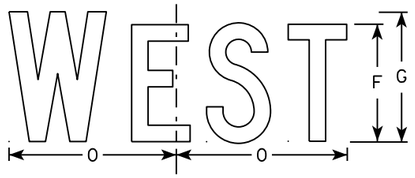
MB3-2
MK3-2
MN3-2



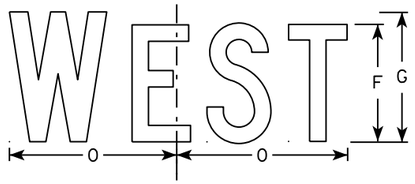
M3-3
MM3-3
MP3-3



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

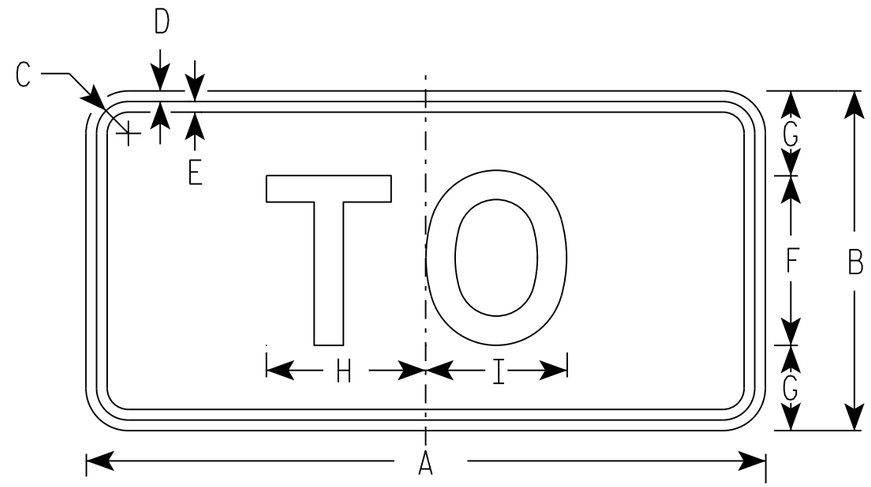
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

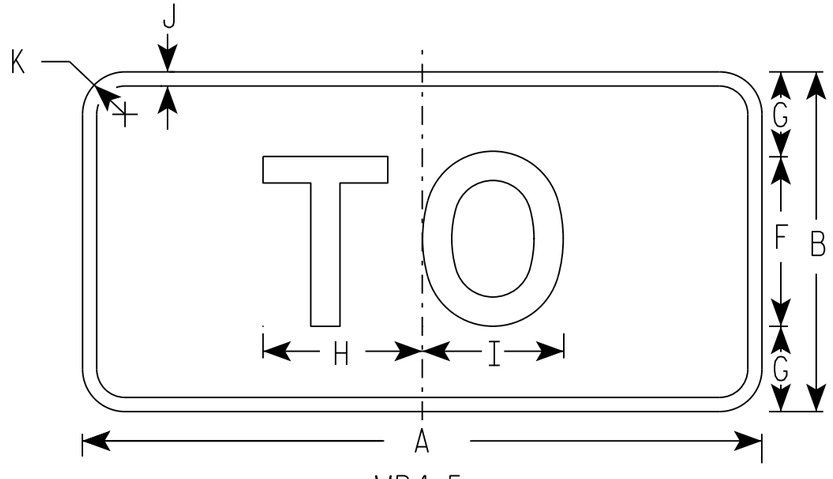
DATE 10/15/15 PLATE NO M3-1.14

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



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

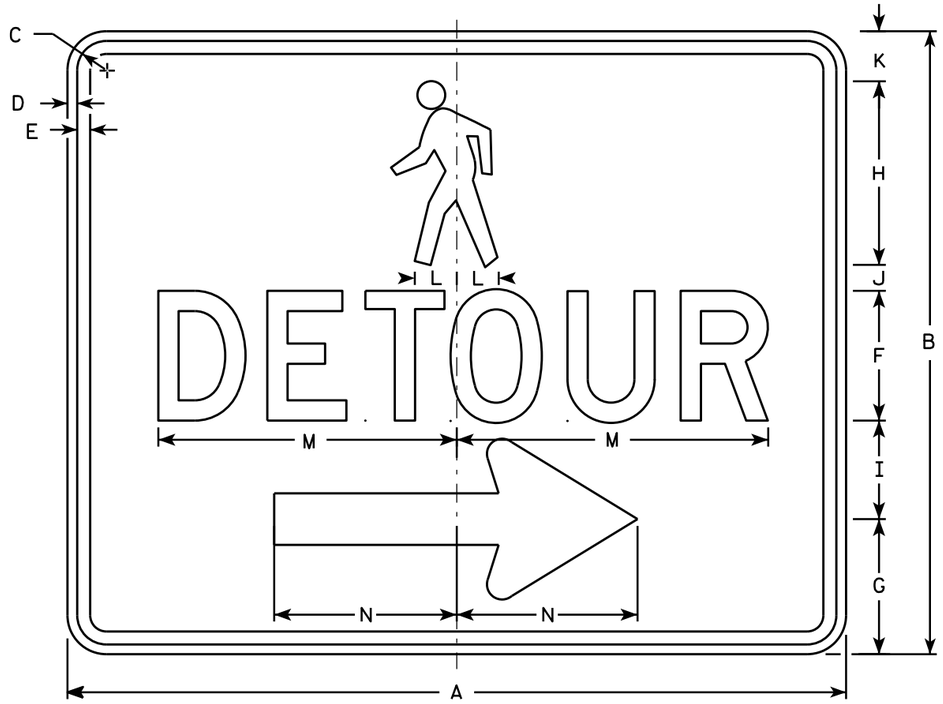
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 244 M4-5.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

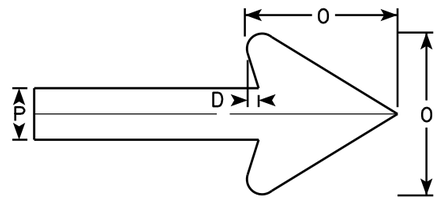
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M45.DGN PLOT DATE : 01-DEC-2015 17:55 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.351066:1.000000



M4-9BR

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. M4-9BL is the same as M4-9BR 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	5 1/4	7 1/8	3 3/4	1	1 1/8	1 5/8	11 3/4	7	6	2											5.00
3																											
4																											
5																											

STANDARD SIGN
M4-9B L&R

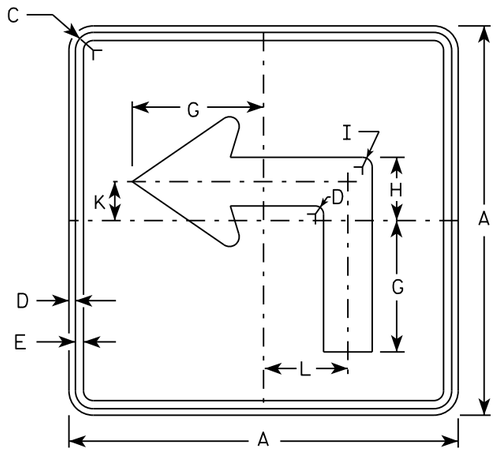
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

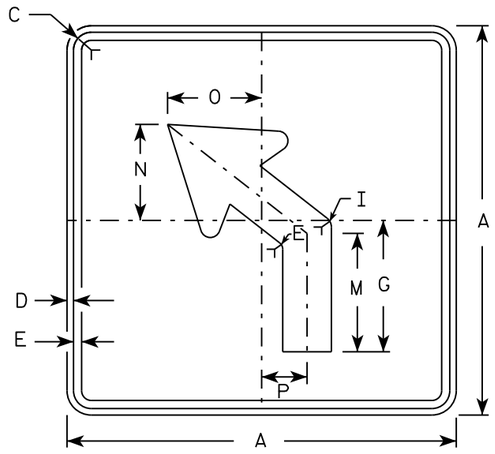
DATE 9/30/13 PLATE NO. M4-9B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

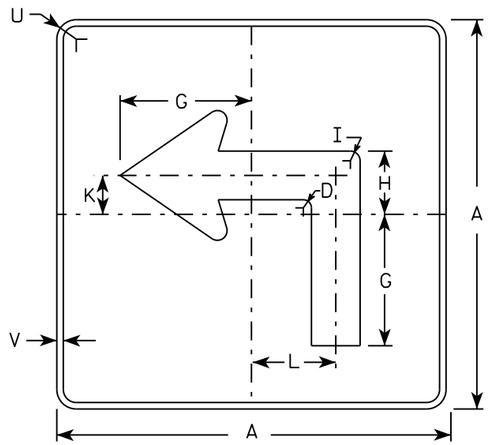
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M49B.DGN PLOT DATE : 01-OCT-2013 13:44 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



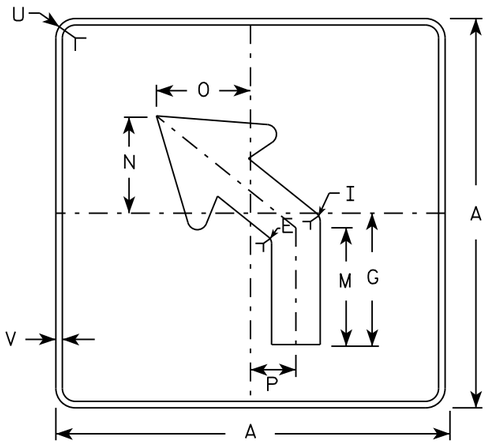
M5-1L
MM5-1L
MO5-1L
MP5-1L



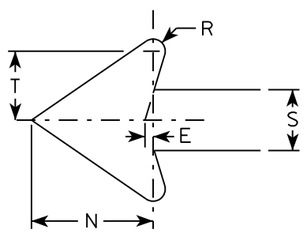
M5-2L
MM5-2L
MO5-2L
MP5-2L



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

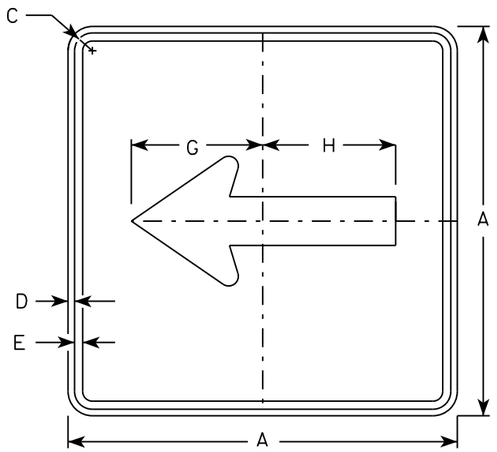
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

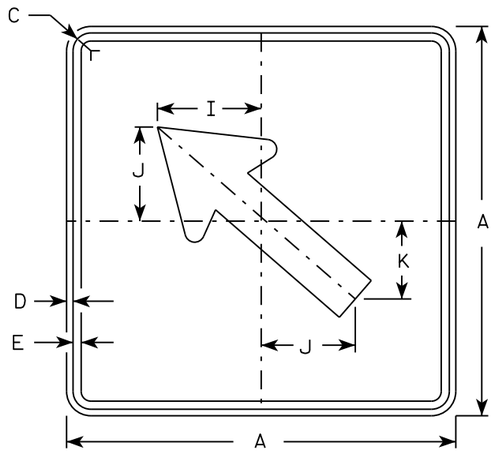
DATE 10/15/15 PLATE NO. M5-1.13

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



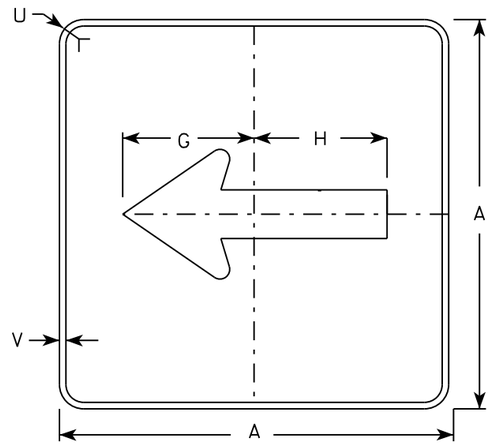
M6-1
MM6-1
MO6-1
MP6-1



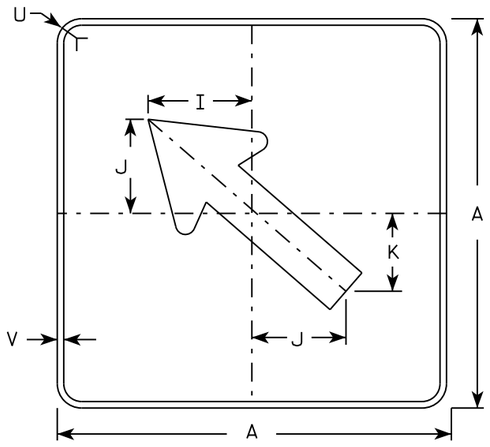
M6-2
MM6-2
MO6-2
MP6-2

NOTES

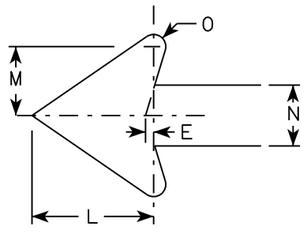
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - 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

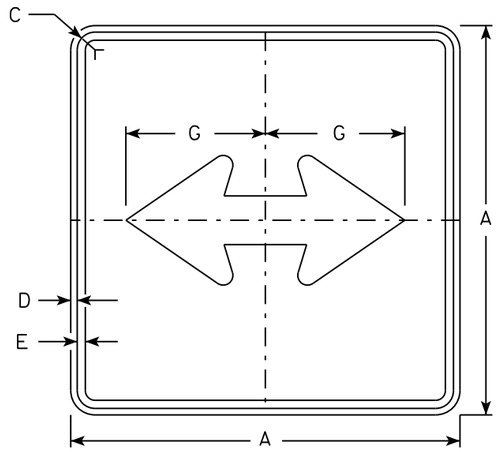
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

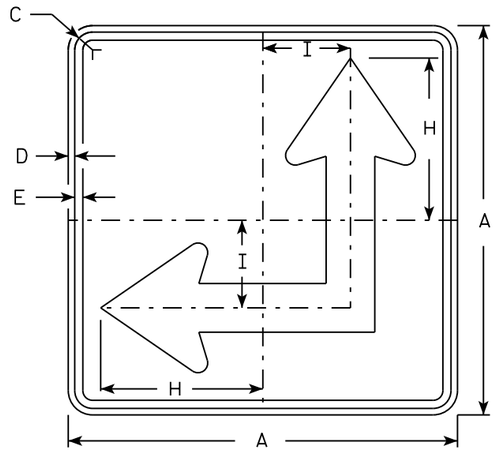
DATE 10/15/15 PLATE 247 M6-1.15

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



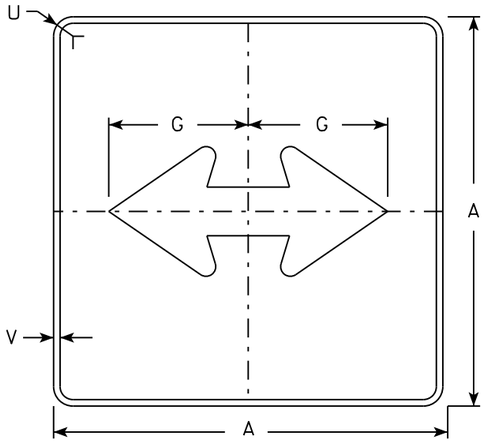
M6-4
MM6-4
MO6-4
MP6-4



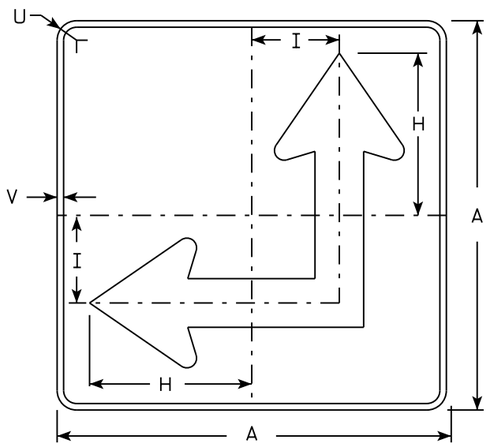
M6-6
MM6-6
MO6-6
MP6-6

NOTES

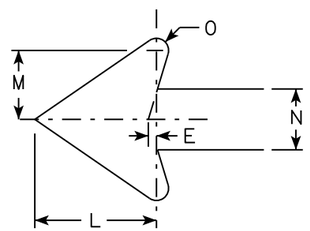
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.



MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6



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	8 3/4	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	12 1/2	6 3/4			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	12 1/2	6 3/4			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	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6-4 & M6-6
SERIES

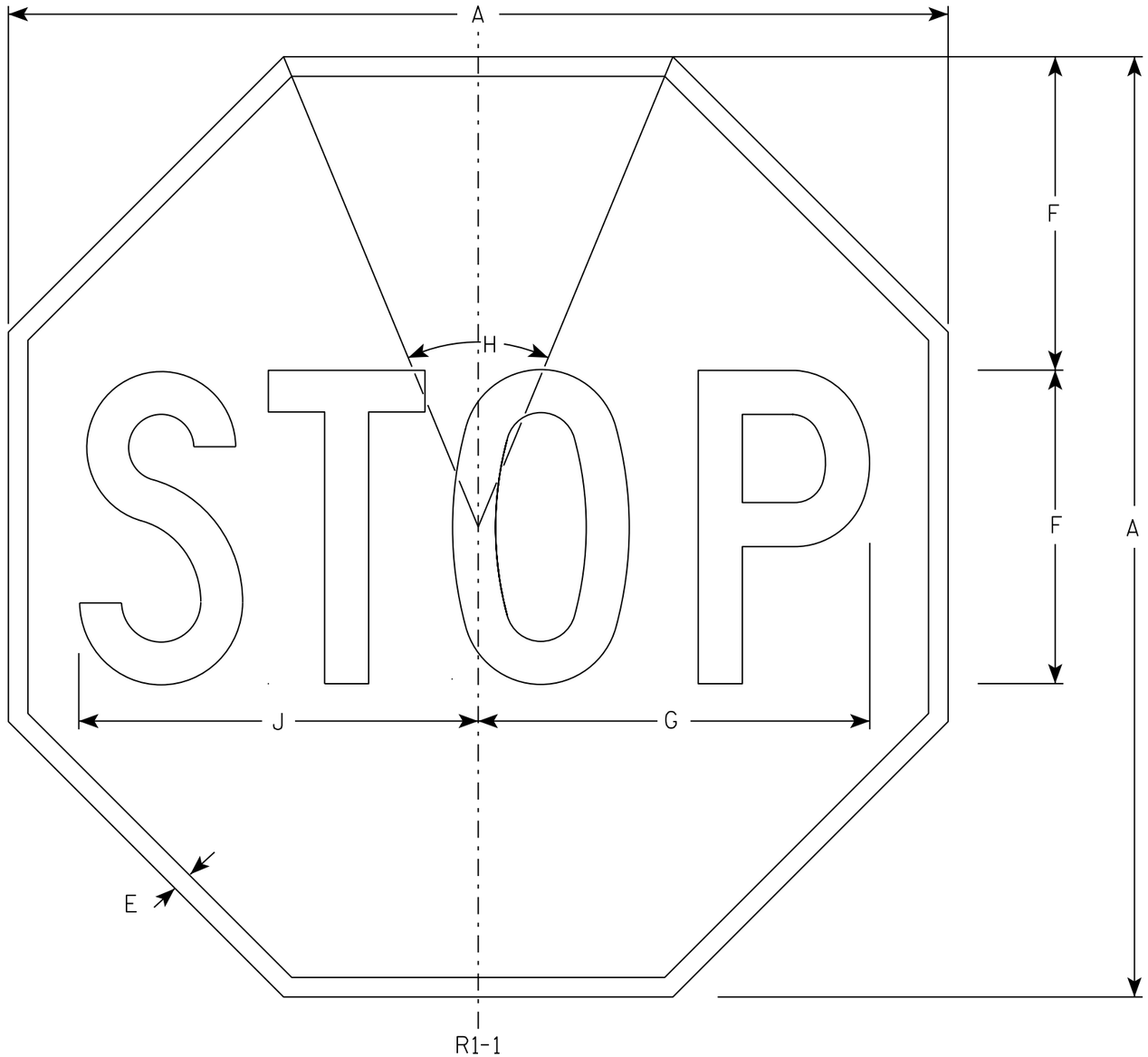
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 248 M6-4.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 01-DEC-2015 17:58 PLOT BY : $$ platuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



R1-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - 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

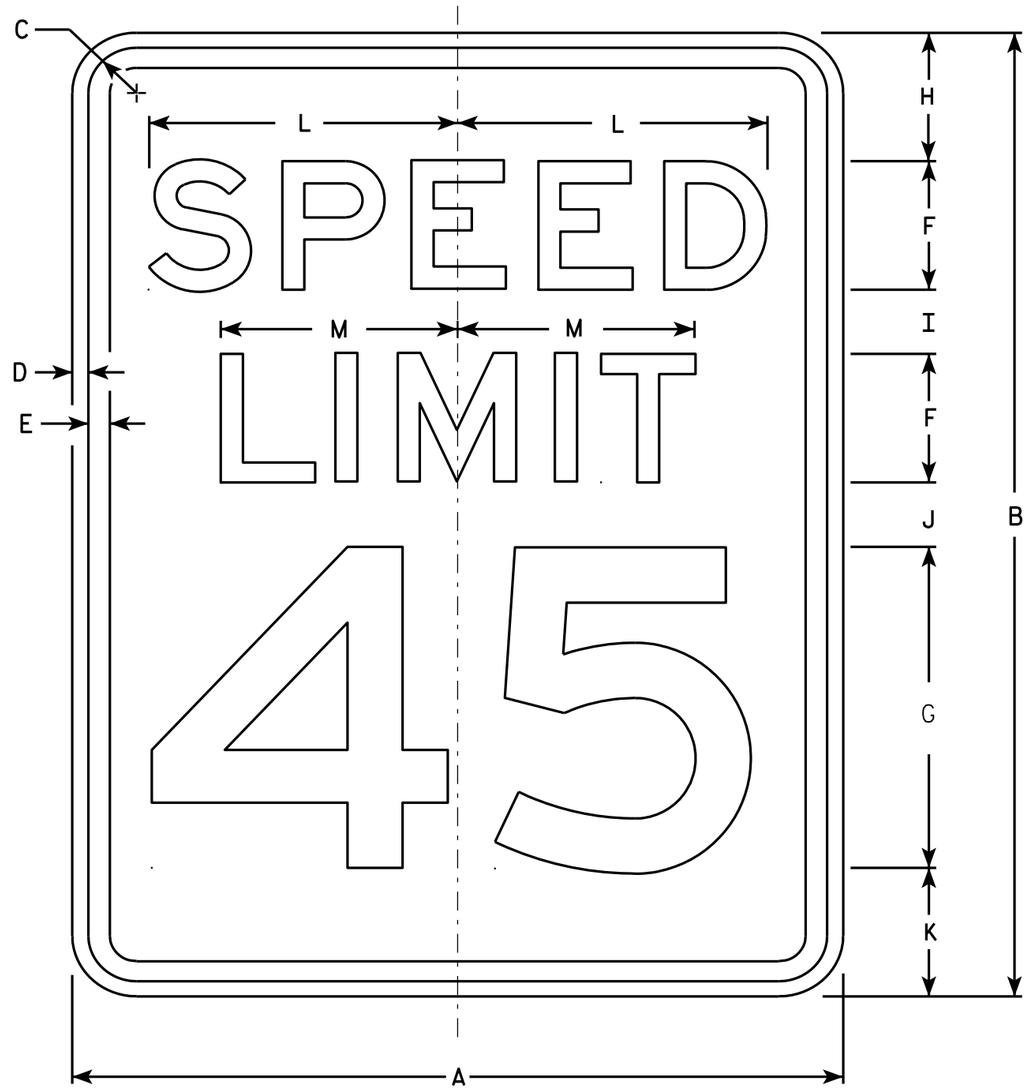
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE 249 R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R11.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.378143:1.000000



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

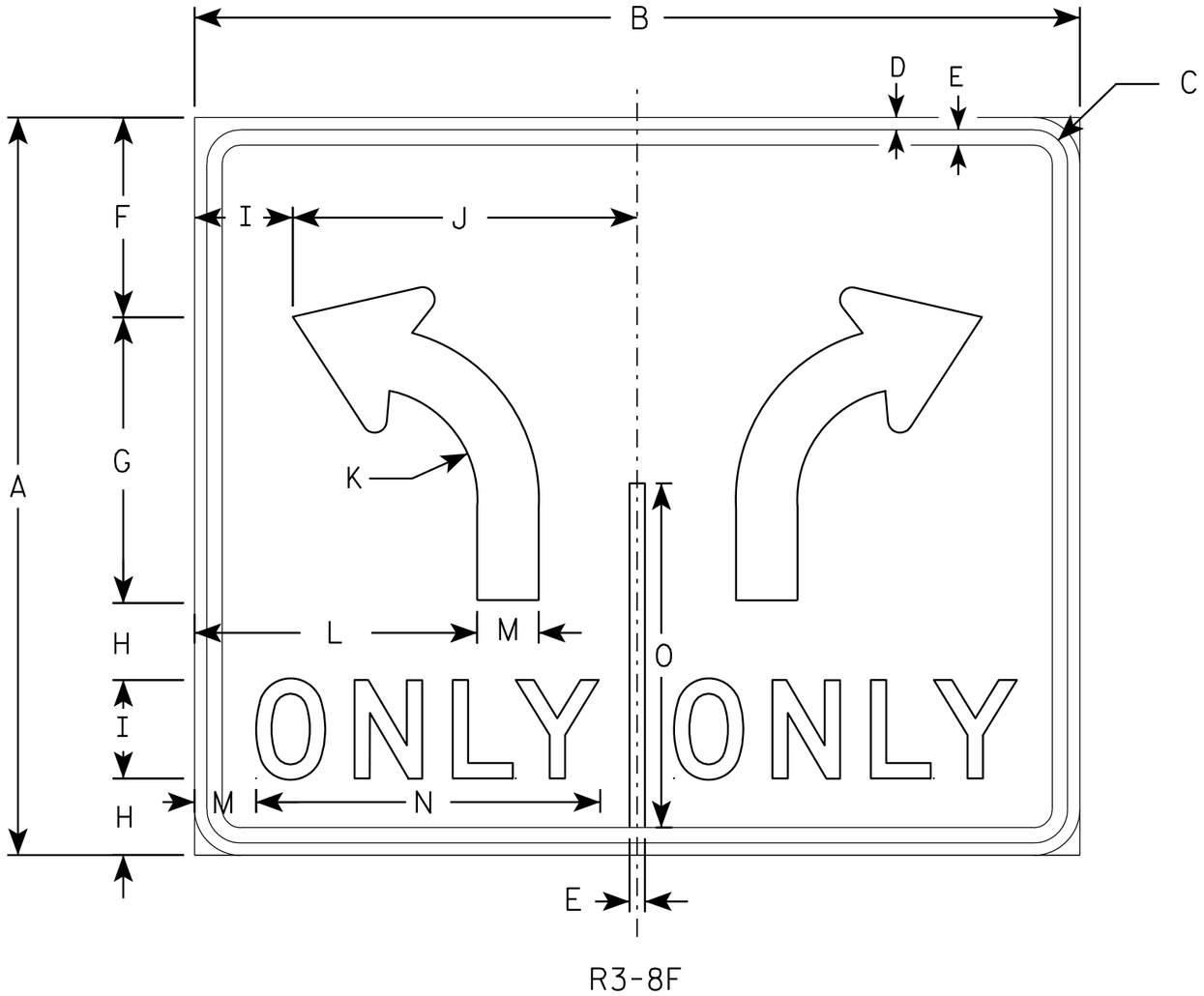
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

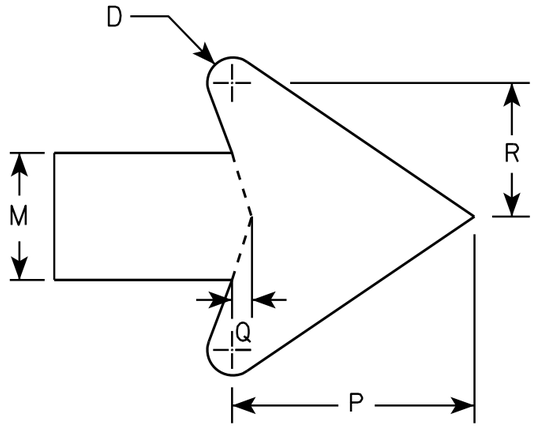
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 250	E



R3-8F

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									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									7.5
3																											
4	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	21	7 1/4	17 1/4	3 3/4	20 5/8	22 3/8	7 1/8	5/8	4									18.0
5	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	21	7 1/4	17 1/4	3 3/4	20 5/8	22 3/8	7 1/8	5/8	4									18.0

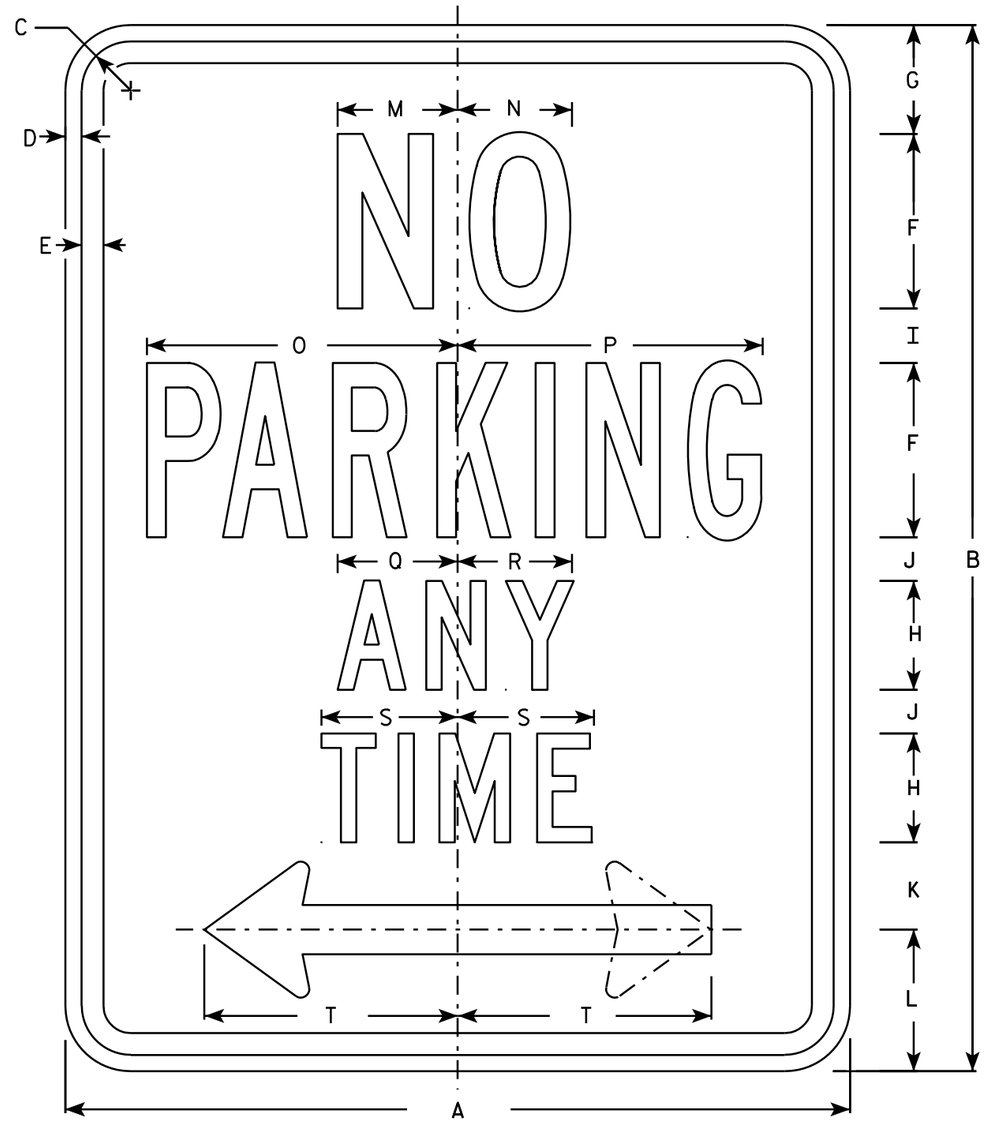
STANDARD SIGN
R3-8F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-8F.2

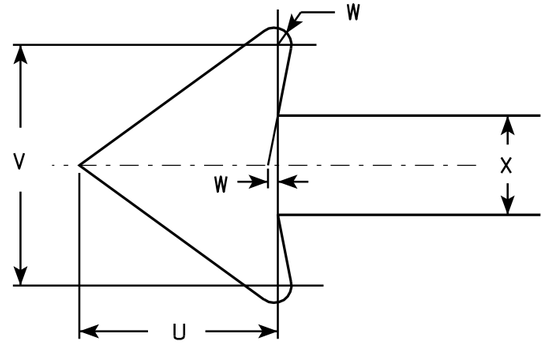
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 251 | E



R7-1

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 - Red
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, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



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	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

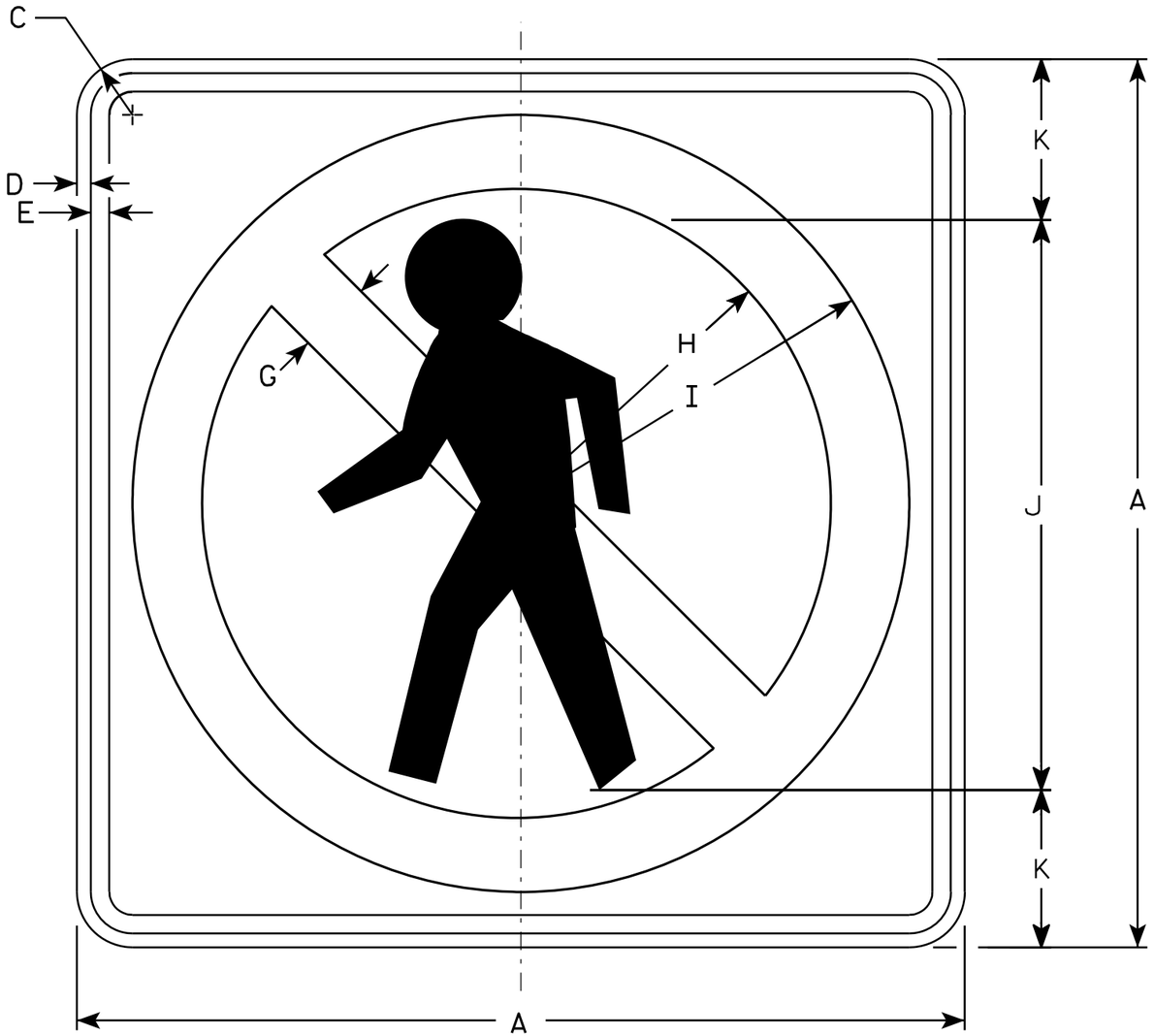
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 252	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R71.DGN PLOT DATE : 31-MAR-2011 09:20 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.476110:1.000000

WISDOT/CADDS SHEET 42



R9-3A

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 & Pedistrian are non-reflective black. Circle with diagonal bar is reflective 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																											
2S	18		1 1/8	3/8	3/8		1 1/2	6 1/4	7 7/8	12	3																2.25
2M	18		1 1/8	3/8	3/8		1 1/2	6 1/4	7 7/8	12	3																2.25
3																											
4	24		1 1/8	3/8	1/2		2	8 1/2	10 1/2	15	4																4.00
5																											

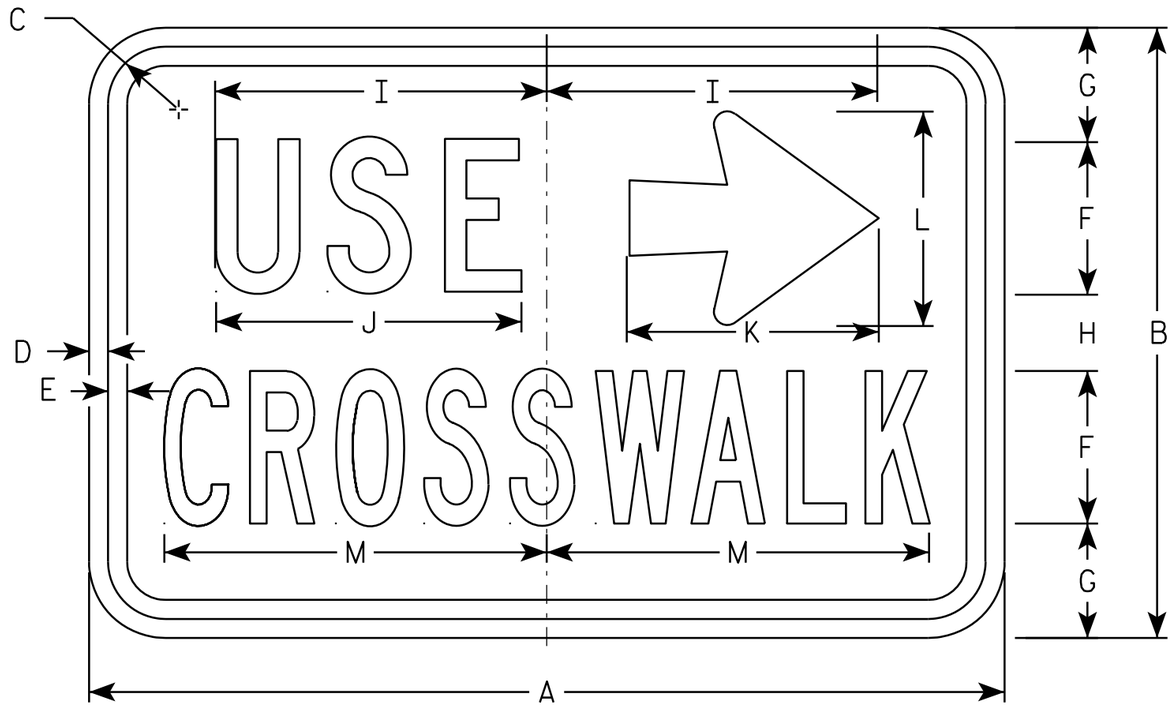
STANDARD SIGN
R9-3A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/4/10 PLATE NO. R9-3A.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 253	E



R9-3BR

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 Line 1, Series B Line 2
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. R9-3BL is the same as R9-3BR except USE and the arrow are switched.

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	18	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	6 1/2	6	5	4 1/4	7 1/2														1.5
2M	18	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	6 1/2	6	5	4 1/4	7 1/2														1.5
3																											
4																											
5																											

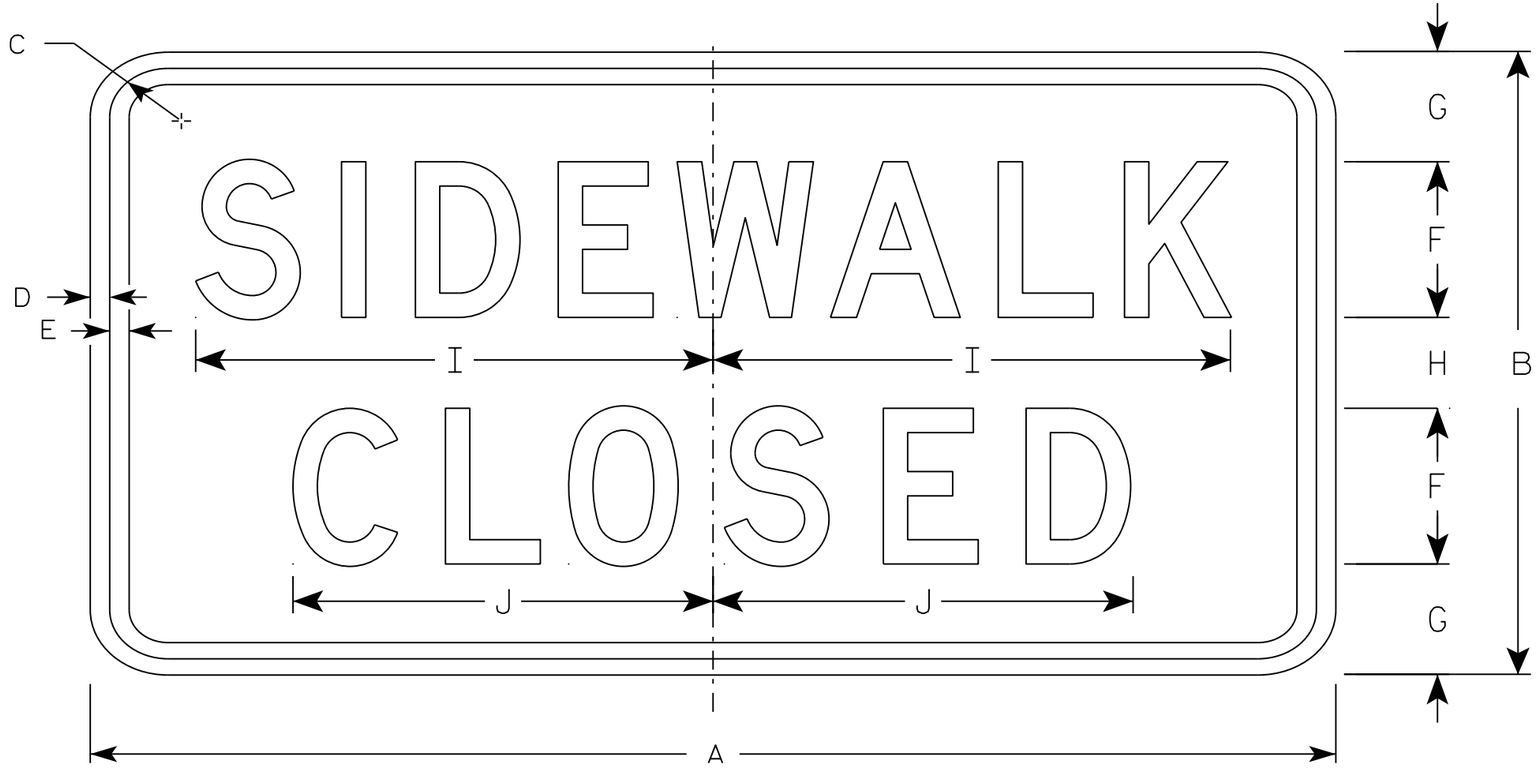
STANDARD SIGN
R9-3BR&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/4/10 PLATE NO. R9-3B.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 254 | 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 255 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



R10-71



R10-71L

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.



R10-71R

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	R10-71L&R Area sq. ft.	R10-71 Area sq. ft.
1																												
2S	72	36	2 1/4	3/4	1	18	5	4	6	20 5/8	11 3/4	9 1/8	8 1/2	12 7/8	9 7/8	16 1/8	23 7/8	30	5 5/8	26 3/4	66	23 5/8	8 3/4	13	26 7/8	27	18.0	16.5
2M	72	36	2 1/4	3/4	1	18	5	4	6	20 5/8	11 3/4	9 1/8	8 1/2	12 7/8	9 7/8	16 1/8	23 7/8	30	5 5/8	26 3/4	66	23 5/8	8 3/4	13	26 7/8	27	18.0	16.5
3																												
4																												
5																												

STANDARD SIGN
R10-71

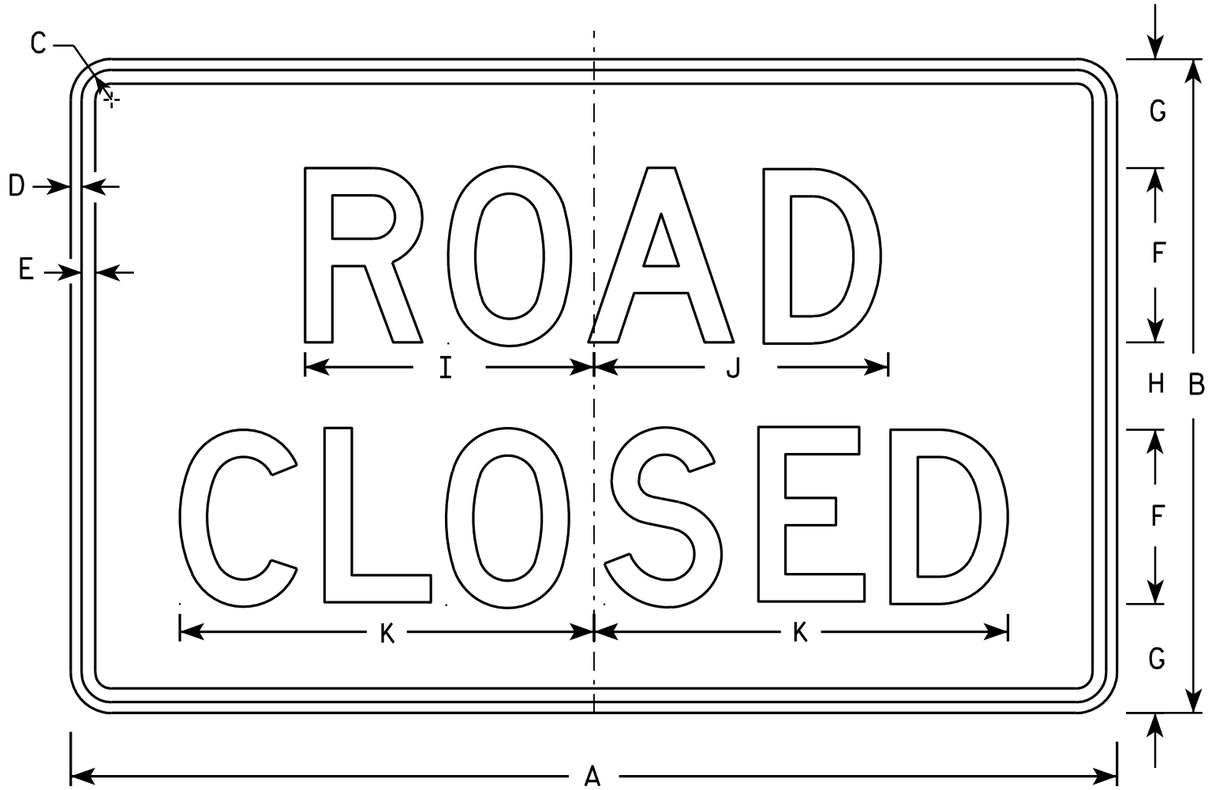
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/4/11 PLATE NO. R10-71.3

PROJECT NO:

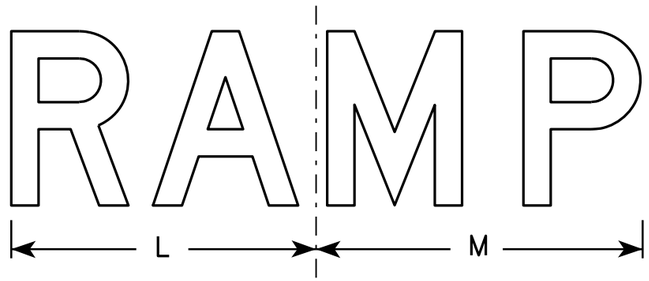
SHEET NO: 256 E



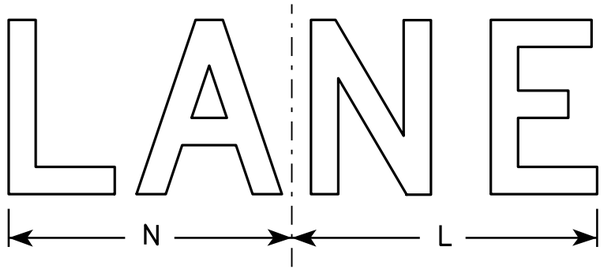
R11-2

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

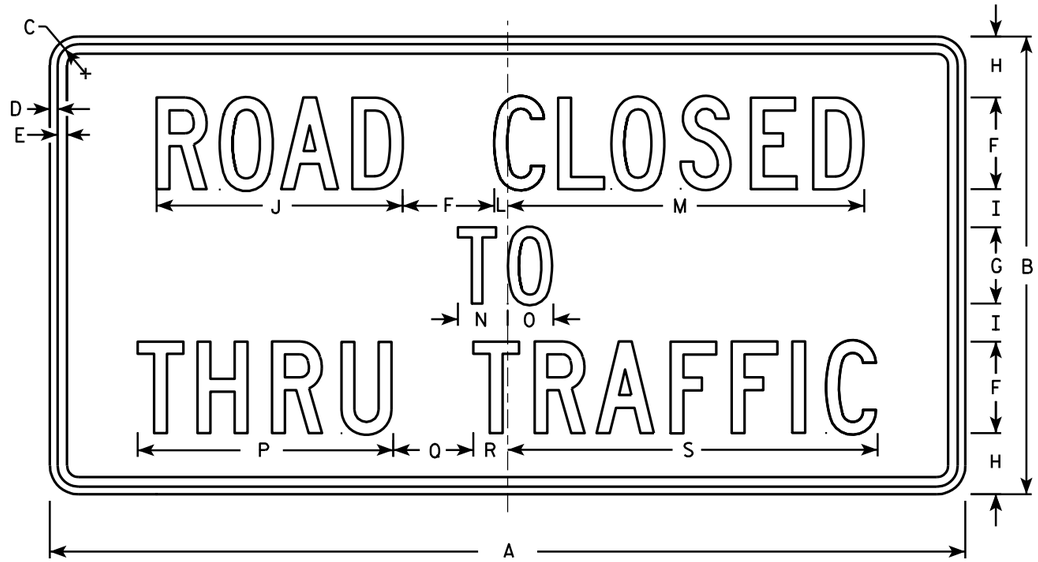
STANDARD SIGN
R11-2

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: 257	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																											

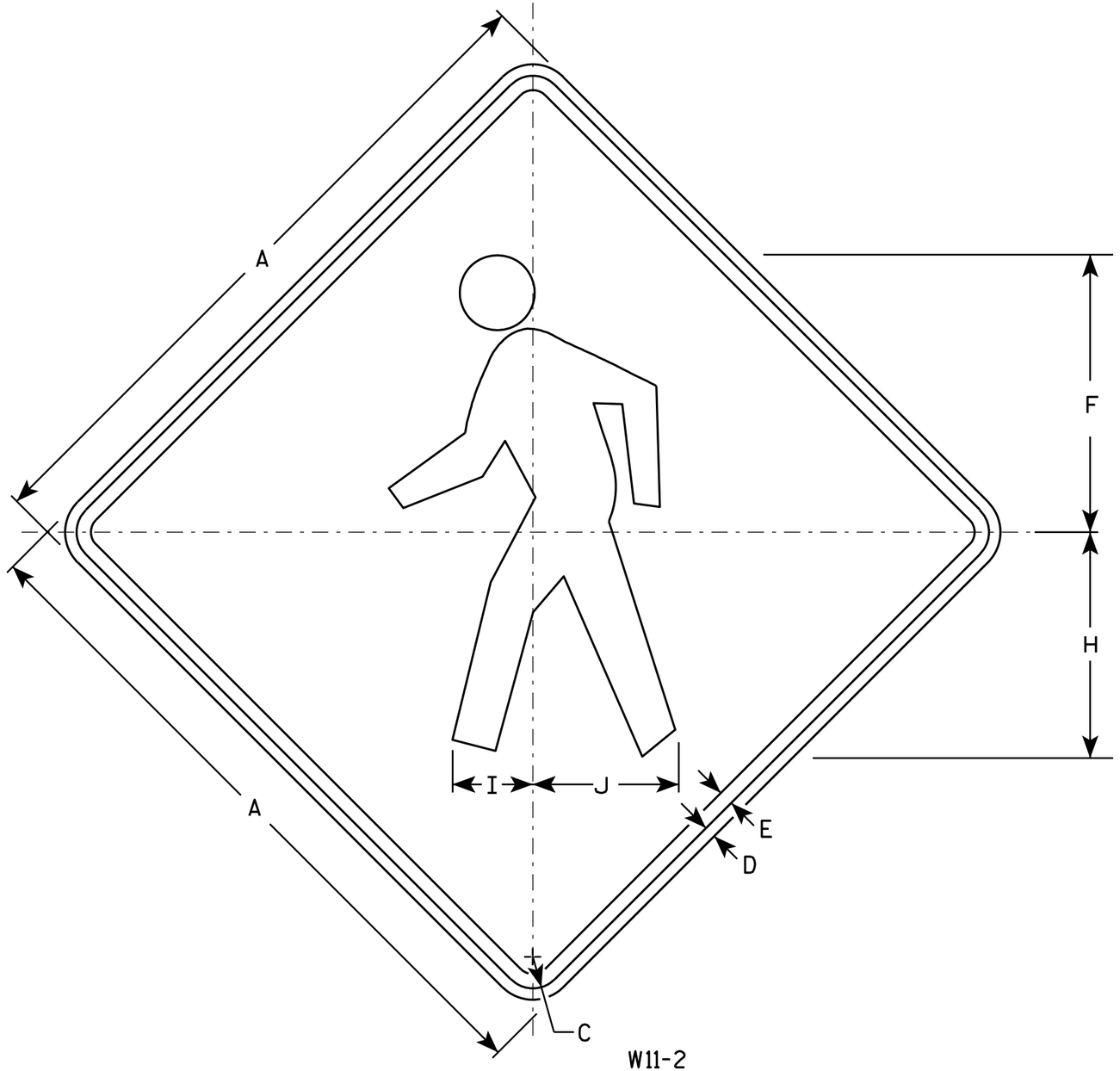
STANDARD SIGN
R11 - 4

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: 258 | 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																											

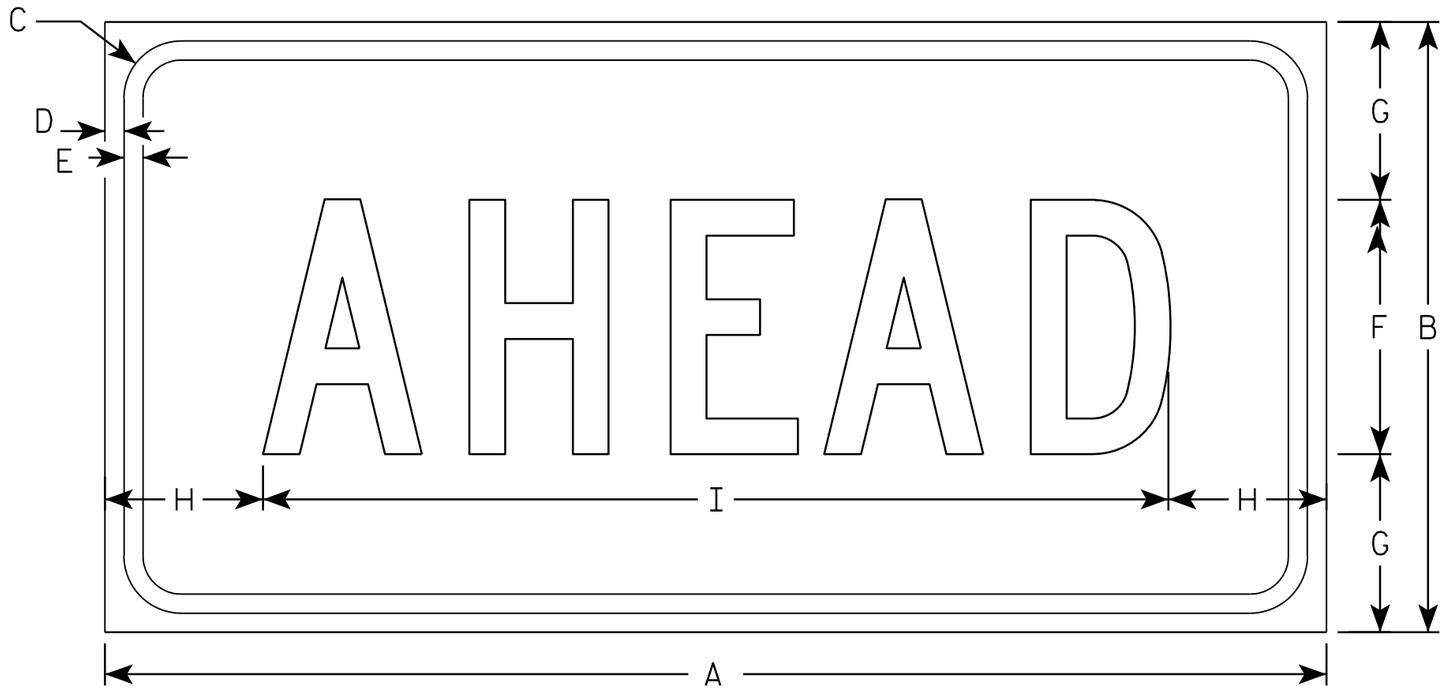
STANDARD SIGN
W11-2

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: 259	E



W16-9P

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
   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	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
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																											

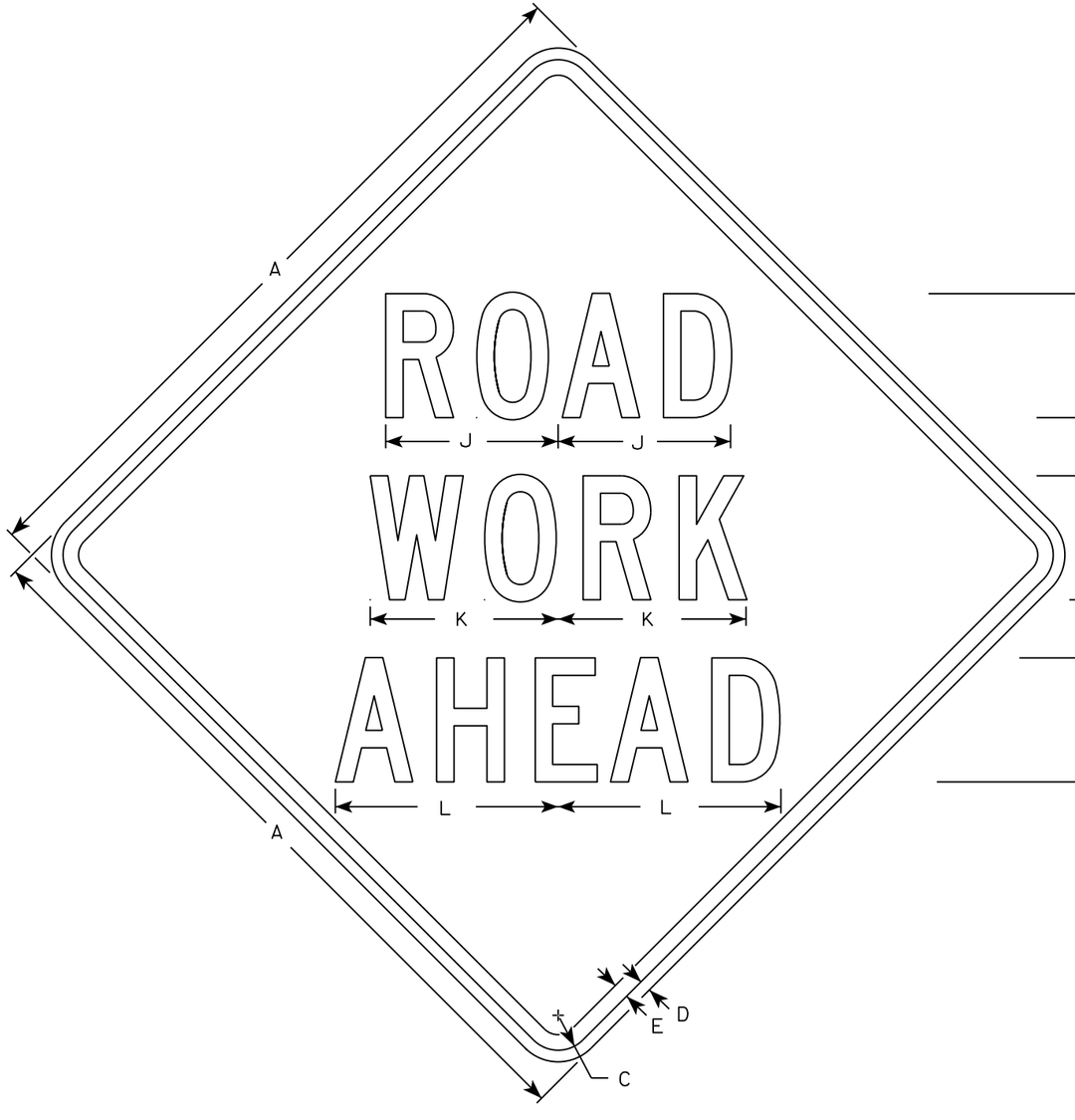
STANDARD SIGN
W16-9P

WISCONSIN DEPT OF TRANSPORTATION

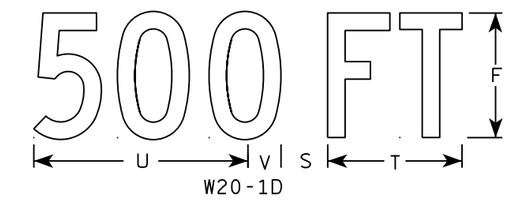
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/28/10 PLATE NO. W16-9P.6

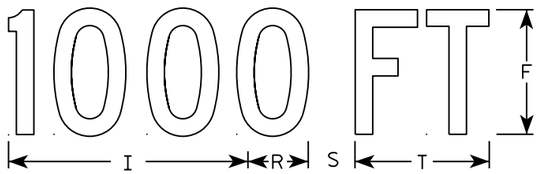
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 260 | E



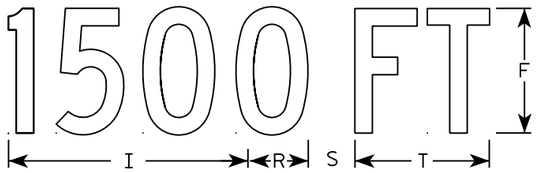
W20-1A



W20-1D



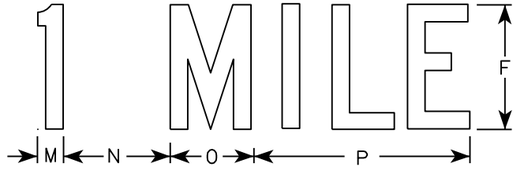
W20-1C



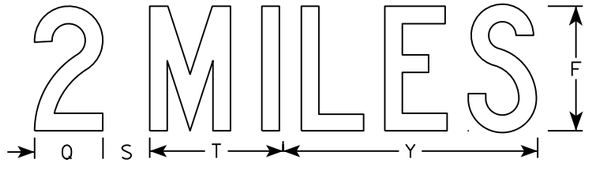
W20-1B



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

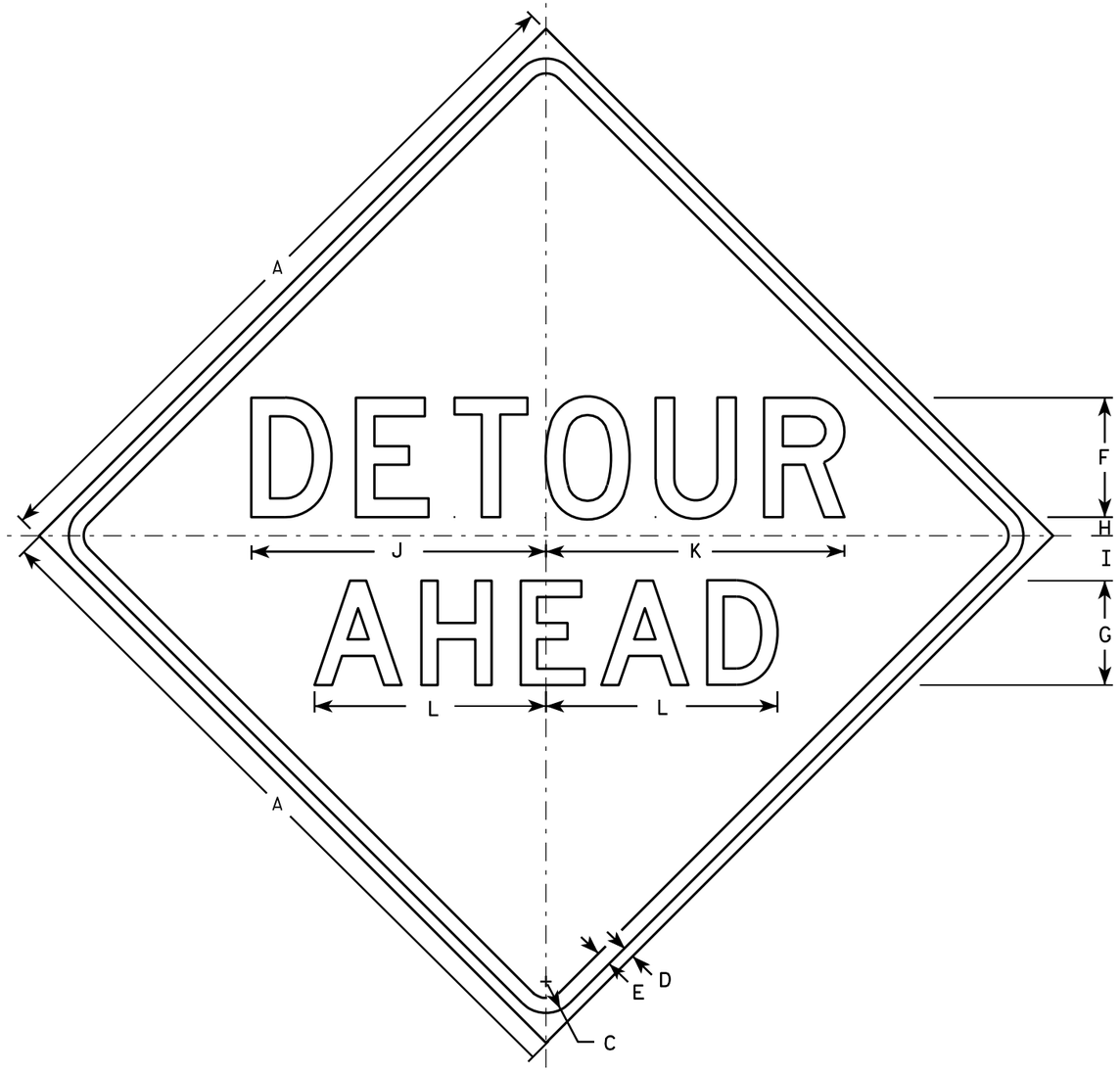
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

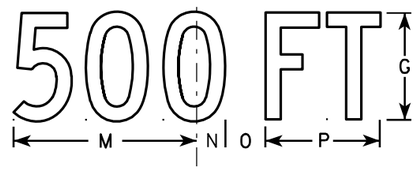
PROJECT NO:

SHEET NO: E

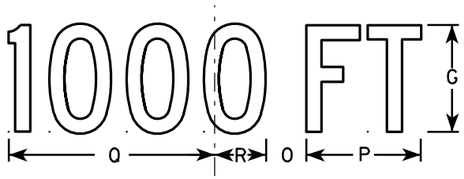
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



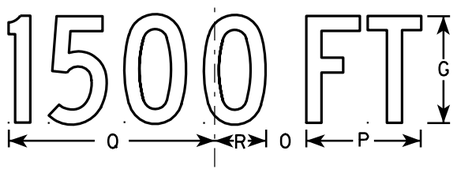
W20-2A



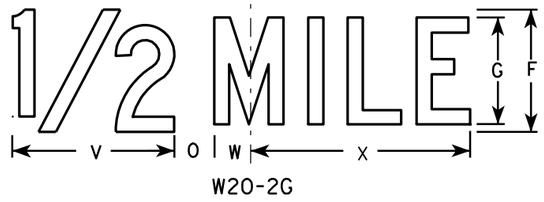
W20-2D



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

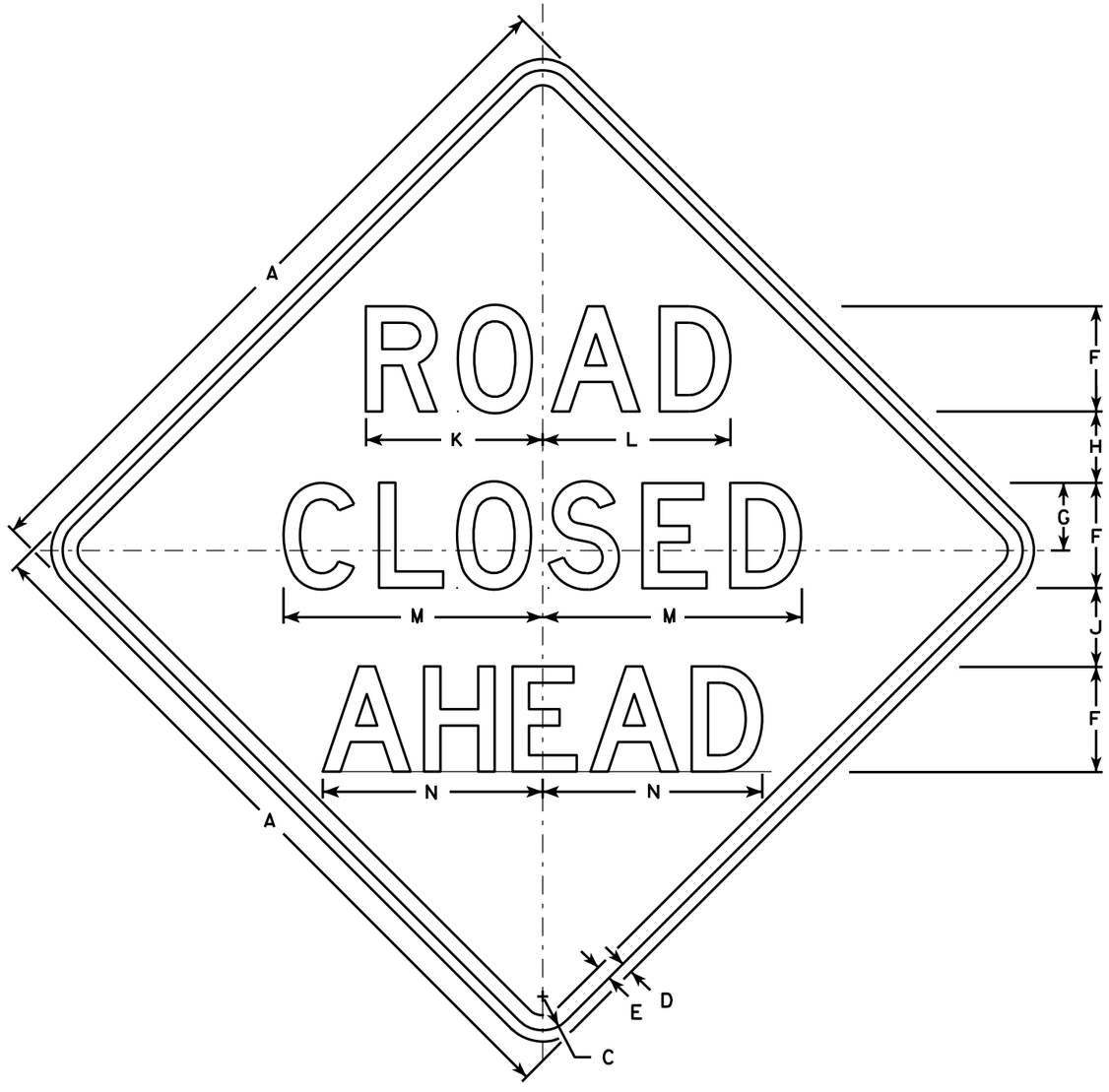
STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

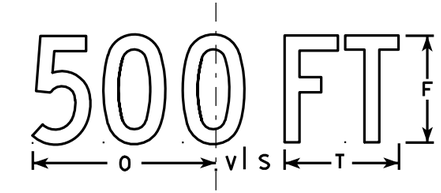
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

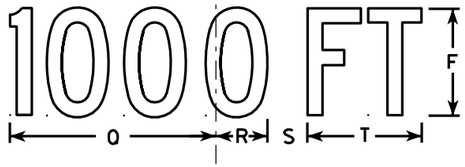
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 262 | E



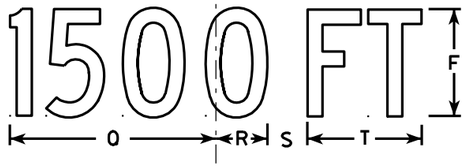
W20-3A



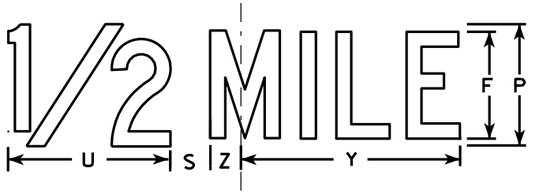
W20-3D



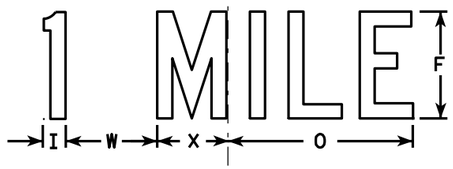
W20-3C



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: 263 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN PLOT DATE : 18-MAR-2011 12:08 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000

WISDOT/CADDS SHEET 42

7

7

EARTHWORK PROJECT I.D. 1470-18-71 (WIS 42)

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged/Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate Note 8
33+10	3310.00	0.00	121	50	0	0	0	0	0	0	0
33+39	3339.00	29.00	160	50	0	151	53	0	151	0	98
33+50	3350.00	11.00	159	50	0	65	20	0	216	0	143
33+75	3375.00	25.00	167	50	0	151	46	0	367	0	248
33+90	3390.00	15.00	173	50	0	94	28	0	461	0	315
34+00	3400.00	10.00	171	50	0	64	18	0	525	0	360
34+25	3425.00	25.00	161	50	1	154	46	0	679	0	468
34+50	3450.00	25.00	166	50	0	151	46	0	830	1	573
34+61	3461.00	11.00	166	50	0	68	20	0	898	1	620
34+75	3475.00	14.00	165	50	0	86	26	0	983	1	680
35+00	3500.00	25.00	150	50	1	145	46	0	1,129	1	779
35+25	3525.00	25.00	140	50	1	134	46	1	1,263	2	867
35+50	3550.00	25.00	123	50	2	122	46	1	1,385	4	941
35+75	3575.00	25.00	143	50	3	123	46	3	1,508	7	1,015
36+00	3600.00	25.00	330	50	0	219	46	2	1,727	9	1,186
36+25	3625.00	25.00	193	50	1	242	46	0	1,969	9	1,382
36+50	3650.00	25.00	103	50	8	137	46	4	2,106	14	1,468
36+75	3675.00	25.00	111	50	7	99	46	7	2,205	23	1,514
36+90	3690.00	15.00	125	50	0	66	28	2	2,271	25	1,549
37+00	3700.00	10.00	127	50	4	47	18	1	2,318	26	1,577
37+25	3725.00	25.00	137	50	3	122	46	3	2,440	30	1,649
37+40	3740.00	15.00	154	50	0	81	28	1	2,521	32	1,701
37+50	3750.00	10.00	145	50	2	55	18	0	2,576	32	1,738
37+75	3775.00	25.00	131	50	4	127	46	3	2,704	35	1,816
37+90	3790.00	15.00	149	50	0	78	28	1	2,781	37	1,865
38+00	3800.00	10.00	140	50	3	54	18	0	2,835	37	1,899
38+25	3825.00	25.00	145	50	2	132	46	2	2,967	40	1,983
38+40	3840.00	15.00	170	50	0	87	28	1	3,054	41	2,042
38+50	3850.00	10.00	146	50	2	59	18	0	3,113	41	2,081
38+75	3875.00	25.00	142	50	2	133	46	2	3,246	44	2,166
39+00	3900.00	25.00	138	50	4	130	46	3	3,376	47	2,247
39+25	3925.00	25.00	142	50	4	129	46	3	3,505	52	2,326
39+50	3950.00	25.00	353	50	0	229	46	2	3,734	54	2,507
39+75	3975.00	25.00	339	50	0	320	46	0	4,054	54	2,782
40+00	4000.00	25.00	142	50	0	223	46	0	4,277	54	2,959
40+25	4025.00	25.00	124	50	5	123	46	2	4,400	57	3,033
40+50	4050.00	25.00	134	50	4	120	46	4	4,520	62	3,101
40+60	4060.00	10.00	141	50	0	51	18	1	4,571	63	3,133
40+75	4075.00	15.00	136	50	4	77	28	1	4,648	64	3,181
41+00	4100.00	25.00	149	50	3	132	46	4	4,780	69	3,263
41+25	4125.00	25.00	151	50	1	139	46	2	4,918	71	3,353
41+50	4150.00	25.00	194	50	0	160	46	1	5,078	72	3,466
41+75	4175.00	25.00	162	50	0	165	46	0	5,243	72	3,585
42+00	4200.00	25.00	171	50	0	154	46	0	5,397	72	3,693
42+11	4211.00	11.00	181	50	0	72	20	0	5,469	72	3,745
42+25	4225.00	14.00	166	50	0	90	26	0	5,559	72	3,809
42+50	4250.00	25.00	148	50	3	145	46	1	5,704	74	3,907
42+75	4275.00	25.00	152	50	2	139	46	2	5,843	77	3,997
43+00	4300.00	25.00	241	50	1	182	46	1	6,025	78	4,131
43+25	4325.00	25.00	283	50	0	242	46	1	6,267	79	4,327
43+50	4350.00	25.00	253	50	0	248	46	0	6,515	79	4,529
43+75	4375.00	25.00	147	50	1	185	46	0	6,700	79	4,668
44+00	4400.00	25.00	143	50	2	134	46	1	6,834	81	4,755
44+11	4411.00	11.00	151	50	3	60	20	1	6,894	82	4,794
44+25	4425.00	14.00	144	50	2	76	26	1	6,971	84	4,843

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EARTHWORK CONTINUED

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged/Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate Note 8
44+50	4450.00	25.00	144	50	2	133	46	2	7,104	86	4,928
44+61	4461.00	11.00	153	50	2	60	20	1	7,165	87	4,967
44+75	4475.00	14.00	153	50	0	79	26	0	7,244	88	5,021
45+00	4500.00	25.00	129	50	3	131	46	1	7,375	89	5,104
45+11	4511.00	11.00	145	50	1	56	20	1	7,430	90	5,138
45+25	4525.00	14.00	150	50	2	76	26	1	7,507	91	5,188
45+36	4536.00	11.00	164	50	1	64	20	1	7,571	92	5,231
45+50	4550.00	14.00	150	50	1	81	26	1	7,652	93	5,286
45+68	4568.00	18.00	163	50	0	104	33	0	7,756	93	5,357
45+75	4575.00	7.00	165	50	0	42	13	0	7,799	93	5,387
46+00	4600.00	25.00	167	50	1	153	46	0	7,952	94	5,494
46+25	4625.00	25.00	153	50	1	148	46	1	8,100	95	5,594
46+50	4650.00	25.00	166	50	0	148	46	0	8,247	95	5,696
46+75	4675.00	25.00	358	50	0	243	46	0	8,490	95	5,892
47+00	4700.00	25.00	350	50	0	328	46	0	8,818	95	6,174
47+25	4725.00	25.00	146	50	2	230	46	1	9,047	96	6,357
47+50	4750.00	25.00	144	50	2	134	46	2	9,182	98	6,443
47+75	4775.00	25.00	159	50	2	140	46	2	9,322	101	6,535
47+85	4785.00	10.00	156	50	0	58	18	0	9,380	101	6,575
48+00	4800.00	15.00	145	50	3	83	28	1	9,463	102	6,630
48+25	4825.00	25.00	145	50	3	134	46	3	9,597	105	6,714
48+40	4840.00	15.00	168	50	0	87	28	1	9,684	106	6,773
48+50	4850.00	10.00	149	50	1	59	18	0	9,743	107	6,813
48+75	4875.00	25.00	147	50	3	137	46	2	9,880	109	6,902
49+00	4900.00	25.00	155	50	5	140	46	4	10,020	113	6,991
49+25	4925.00	25.00	145	50	5	139	46	5	10,158	119	7,078
49+50	4950.00	25.00	162	50	0	142	46	2	10,300	122	7,171
49+75	4975.00	25.00	150	50	2	145	46	1	10,445	123	7,269
50+00	5000.00	25.00	154	50	2	141	46	2	10,586	125	7,362
50+25	5025.00	25.00	238	50	0	182	46	1	10,767	127	7,497
50+50	5050.00	25.00	425	50	0	307	46	0	11,074	127	7,758
50+75	5075.00	25.00	156	50	1	269	46	0	11,343	127	7,981
51+00	5100.00	25.00	146	50	1	140	46	1	11,483	128	8,073
51+25	5125.00	25.00	148	50	1	136	46	1	11,619	130	8,162
51+50	5150.00	25.00	166	50	2	145	46	2	11,764	132	8,259
51+75	5175.00	25.00	136	50	2	140	46	2	11,904	134	8,351
51+92	5192.00	17.00	158	50	0	92	31	1	11,996	135	8,411
52+00	5200.00	8.00	134	50	2	43	15	0	12,040	135	8,439
52+25	5225.00	25.00	151	50	0	132	46	1	12,171	137	8,524
52+44	5244.00	19.00	170	50	2	113	35	1	12,284	137	8,601
52+50	5250.00	6.00	158	50	1	36	11	0	12,320	138	8,626
52+75	5275.00	25.00	157	50	1	146	46	1	12,466	139	8,725
53+00	5300.00	25.00	167	50	0	150	46	0	12,616	139	8,829
53+25	5325.00	25.00	158	50	0	150	46	0	12,767	139	8,933
53+50	5350.00	25.00	207	50	0	169	46	0	12,936	139	9,056
53+75	5375.00	25.00	317	50	0	242	46	0	13,178	139	9,253
54+00	5400.00	25.00	220	50	0	248	46	0	13,426	139	9,455
54+25	5425.00	25.00	139	50	2	166	46	1	13,593	141	9,575
54+50	5450.00	25.00	146	50	2	132	46	2	13,725	143	9,658
54+75	5475.00	25.00	157	50	0	140	46	1	13,865	145	9,751
55+00	5500.00	25.00	142	50	1	138	46	1	14,003	146	9,842
55+14	5514.00	14.00	144	50	1	74	26	1	14,077	146	9,890
55+25	5525.00	11.00	145	50	1	59	20	0	14,136	147	9,928
55+50	5550.00	25.00	147	50	1	135	46	1	14,270	148	10,016
55+66	5566.00	16.00	168	50	0	93	29	0	14,364	148	10,080

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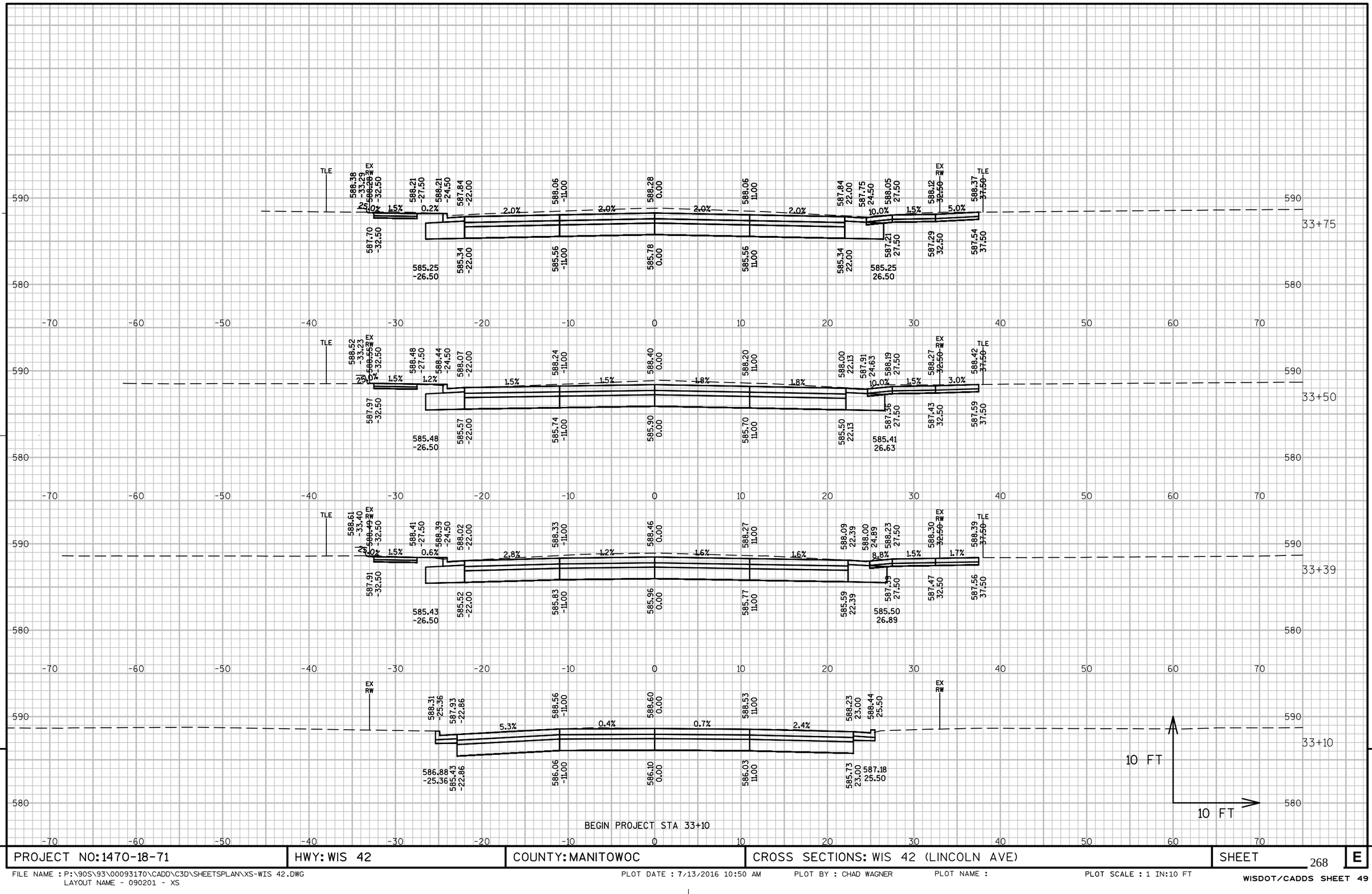
EARTHWORK CONTINUED

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged/Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate Note 8
55+75	5575.00	9.00	148	50	0	53	17	0	14,416	148	10,116
56+00	5600.00	25.00	133	50	2	130	46	1	14,547	149	10,199
56+25	5625.00	25.00	146	50	2	129	46	2	14,676	152	10,280
56+50	5650.00	25.00	147	50	3	136	46	2	14,812	155	10,367
56+75	5675.00	25.00	155	50	2	140	46	2	14,952	157	10,459
57+00	5700.00	25.00	261	50	0	193	46	1	15,144	158	10,605
57+25	5725.00	25.00	246	50	0	234	46	0	15,379	158	10,793
57+50	5750.00	25.00	164	50	0	190	46	0	15,569	158	10,937
57+75	5775.00	25.00	160	50	0	150	46	0	15,718	158	11,041
58+00	5800.00	25.00	159	50	0	148	46	0	15,866	158	11,143
58+25	5825.00	25.00	192	50	0	163	46	0	16,029	158	11,259
58+35	5835.00	10.00	273	50	0	86	18	0	16,115	158	11,327
58+50	5850.00	15.00	264	50	0	149	28	0	16,264	158	11,449
58+75	5875.00	25.00	205	50	2	217	46	1	16,481	159	11,619
58+79	5879.00	4.00	176	50	2	28	7	0	16,509	160	11,640
59+00	5900.00	21.00	169	22	0	134	28	1	16,643	160	11,745
59+25	5925.00	25.00	160	22	1	152	20	0	16,795	161	11,876
59+50	5950.00	25.00	147	22	1	142	20	1	16,937	162	11,996
59+75	5975.00	25.00	144	22	2	134	20	2	17,071	164	12,109
60+00	6000.00	25.00	141	22	2	132	20	2	17,203	166	12,218
60+25	6025.00	25.00	144	22	1	132	20	1	17,336	168	12,329
60+44	6044.00	19.00	167	22	0	110	15	0	17,446	168	12,423
60+50	6050.00	6.00	161	22	0	36	5	0	17,482	168	12,454
60+75	6075.00	25.00	132	22	1	136	20	0	17,618	168	12,569
61+00	6100.00	25.00	145	22	1	128	20	1	17,746	169	12,677
61+25	6125.00	25.00	146	22	0	135	20	0	17,881	170	12,791
61+50	6150.00	25.00	135	22	1	130	20	0	18,012	170	12,900
61+75	6175.00	25.00	145	22	0	130	20	0	18,141	171	13,009
62+00	6200.00	25.00	238	22	0	177	20	0	18,319	171	13,166
62+25	6225.00	25.00	232	22	1	218	20	1	18,537	172	13,362
62+50	6250.00	25.00	155	22	0	179	20	1	18,716	173	13,520
62+75	6275.00	25.00	140	22	1	137	20	1	18,852	174	13,635
63+00	6300.00	25.00	132	22	3	126	20	2	18,978	176	13,738
63+25	6325.00	25.00	128	22	5	120	20	4	19,099	181	13,834
63+50	6350.00	25.00	131	22	5	120	20	5	19,219	187	13,928
63+59	6359.00	9.00	142	22	5	46	7	2	19,264	189	13,964
63+75	6375.00	16.00	135	22	5	82	13	3	19,346	193	14,029
64+00	6400.00	25.00	142	22	4	128	20	4	19,475	198	14,131
64+25	6425.00	25.00	144	22	2	133	20	3	19,607	202	14,240
64+37	6437.00	12.00	155	22	2	67	10	1	19,674	203	14,296
64+50	6450.00	13.00	149	22	2	73	11	1	19,747	204	14,357
64+75	6475.00	25.00	150	22	3	138	20	2	19,885	207	14,472
65+00	6500.00	25.00	153	22	1	140	20	2	20,026	209	14,590
65+25	6525.00	25.00	152	22	1	142	20	1	20,167	210	14,710
65+50	6550.00	25.00	133	22	3	132	20	2	20,299	213	14,819
65+75	6575.00	25.00	133	22	3	123	20	3	20,422	217	14,918
66+00	6600.00	25.00	134	22	3	124	20	3	20,546	220	15,018
66+25	6625.00	25.00	136	22	2	125	20	2	20,671	222	15,120
66+50	6650.00	25.00	136	22	1	126	20	1	20,797	224	15,224
66+75	6675.00	25.00	152	22	1	134	20	1	20,930	225	15,336
66+85	6685.00	10.00	153	22	1	57	8	0	20,987	226	15,384
67+00	6700.00	15.00	139	22	1	81	12	0	21,068	226	15,453
67+25	6725.00	25.00	142	22	0	130	20	1	21,199	227	15,562
67+30	6730.00	5.00	158	22	0	28	4	0	21,226	227	15,585
67+50	6750.00	20.00	142	22	0	111	16	0	21,338	227	15,680

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EARTHWORK CONTINUED

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Salvaged/Unusable Pavement Material	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Salvaged/Unusable Pavement Material Note 2	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate Note 8
67+75	6775.00	25.00	142	22	0	131	20	0	21,469	228	15,790
68+00	6800.00	25.00	140	22	0	131	20	0	21,599	228	15,900
68+25	6825.00	25.00	137	22	1	129	20	1	21,728	229	16,007
68+50	6850.00	25.00	157	22	0	136	20	0	21,864	230	16,123
68+67	6867.00	17.00	159	22	0	99	14	0	21,963	230	16,208
68+75	6875.00	8.00	160	22	0	47	7	0	22,011	230	16,249
69+00	6900.00	25.00	197	22	0	165	20	0	22,176	230	16,393
69+25	6925.00	25.00	254	22	0	209	20	0	22,384	230	16,581
69+50	6950.00	25.00	208	22	0	214	20	0	22,598	230	16,774
69+75	6975.00	25.00	167	22	0	174	20	0	22,772	231	16,928
70+00	7000.00	25.00	181	22	0	161	20	0	22,933	231	17,068
70+25	7025.00	25.00	155	22	0	155	20	0	23,088	231	17,203
70+50	7050.00	25.00	141	22	1	137	20	0	23,225	231	17,319
70+75	7075.00	25.00	141	22	0	131	20	0	23,356	232	17,429
71+00	7100.00	25.00	166	22	0	142	20	0	23,498	232	17,550
71+10	7110.00	10.00	165	22	0	61	8	0	23,559	232	17,604
71+25	7125.00	15.00	151	22	0	88	12	0	23,647	232	17,679
71+50	7150.00	25.00	153	22	2	141	20	1	23,788	233	17,799
71+75	7175.00	25.00	157	22	0	143	20	1	23,932	234	17,921
72+00	7200.00	25.00	200	22	9	165	20	4	24,097	240	18,060
72+25	7225.00	25.00	359	22	0	259	20	4	24,356	245	18,294
72+50	7250.00	25.00	282	17	0	297	18	0	24,653	245	18,573
72+75	7275.00	25.00	147	17	34	199	15	16	24,852	265	18,737
73+00	7300.00	25.00	144	17	59	135	15	43	24,987	318	18,803
73+25	7325.00	25.00	138	17	55	131	15	53	25,118	384	18,853
73+40	7340.00	15.00	143	17	38	78	9	26	25,196	417	18,889
73+50	7350.00	10.00	131	17	43	51	6	15	25,247	435	18,915
73+75	7375.00	25.00	124	17	89	118	15	61	25,365	512	18,942
74+00	7400.00	25.00	121	17	86	113	15	81	25,478	613	18,939
74+25	7425.00	25.00	145	17	46	123	15	61	25,602	689	18,970
74+50	7450.00	25.00	114	17	66	120	15	52	25,722	754	19,010
74+75	7475.00	25.00	109	17	85	103	15	70	25,825	842	19,011
75+00	7500.00	25.00	114	17	61	103	15	68	25,928	927	19,014
75+25	7525.00	25.00	128	17	40	112	15	47	26,040	985	19,052
75+50	7550.00	25.00	128	17	26	119	15	30	26,159	1,023	19,118
75+75	7575.00	25.00	113	17	55	112	15	37	26,271	1,070	19,167
76+00	7600.00	25.00	143	17	45	119	15	46	26,389	1,128	19,213
76+07	7607.00	7.00	142	17	44	37	4	12	26,426	1,142	19,231
76+25	7625.00	18.00	117	17	63	87	11	36	26,513	1,187	19,262
76+50	7650.00	25.00	118	17	73	109	15	63	26,621	1,265	19,277
76+75	7675.00	25.00	118	17	73	109	15	68	26,731	1,350	19,286
77+00	7700.00	25.00	117	17	72	109	15	67	26,839	1,433	19,296
77+25	7725.00	25.00	136	17	44	117	15	53	26,957	1,500	19,331
77+31	7731.00	6.00	135	17	45	30	4	10	26,987	1,512	19,346
77+50	7750.00	19.00	115	17	46	88	12	32	27,075	1,552	19,382
77+75	7775.00	25.00	112	17	69	105	15	53	27,180	1,619	19,406
78+00	7800.00	25.00	113	17	66	104	15	62	27,284	1,696	19,417
78+25	7825.00	25.00	111	17	66	104	15	61	27,388	1,773	19,429
78+50	7850.00	25.00	109	17	50	102	15	54	27,490	1,840	19,448
78+75	7875.00	25.00	164	17	34	126	15	39	27,616	1,889	19,510
78+80	7880.00	5.00	164	17	37	30	3	7	27,646	1,897	19,530
79+00	7900.00	20.00	141	17	26	113	12	23	27,760	1,926	19,601
79+25	7925.00	25.00	108	17	46	115	15	33	27,875	1,968	19,660
79+50	7950.00	25.00	102	16.50	44	97	15	42	27,972	2,020	19,689
						27,972	**6,263**	**1,616**			



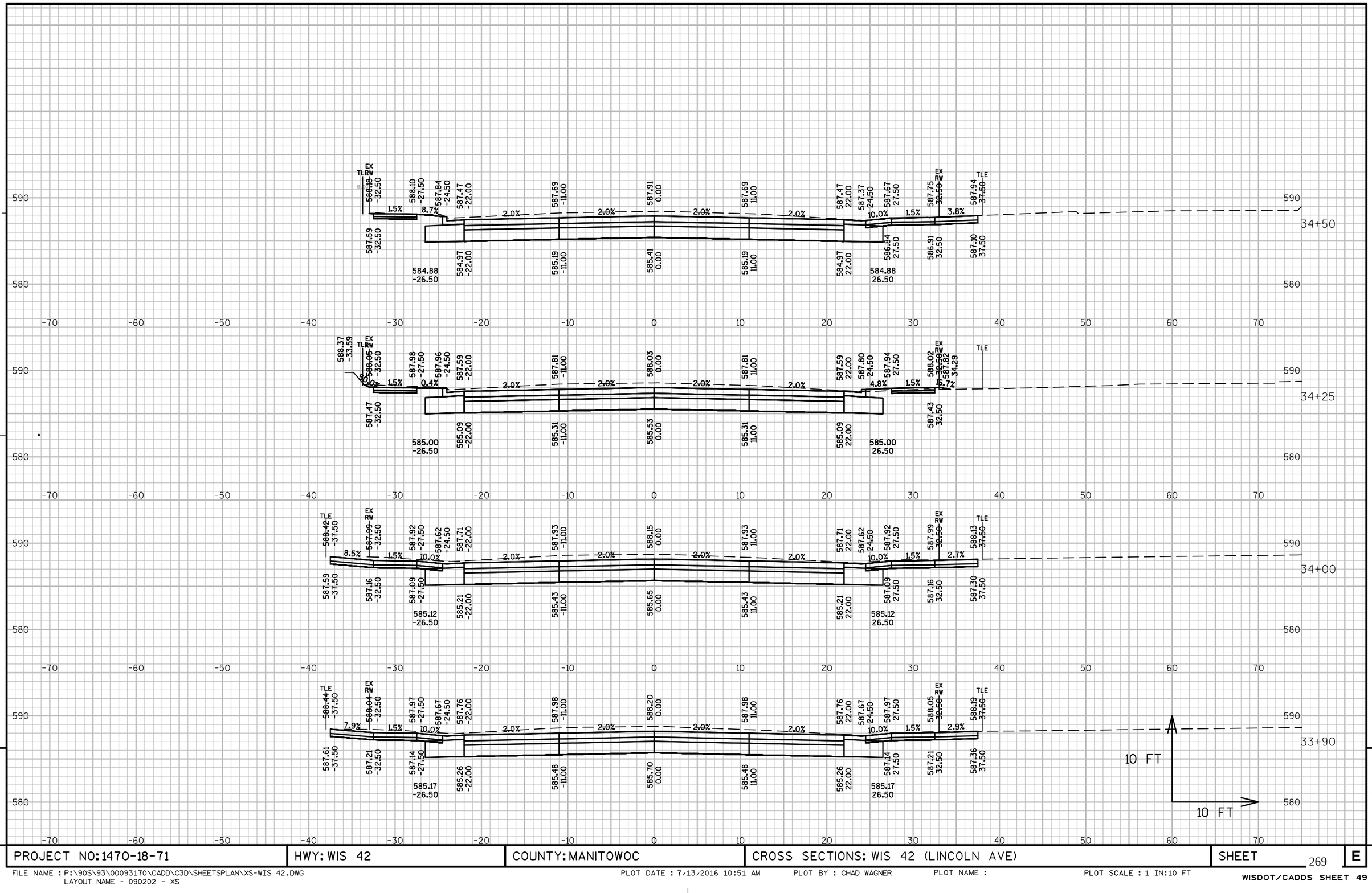
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9

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 268	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090201 - XS

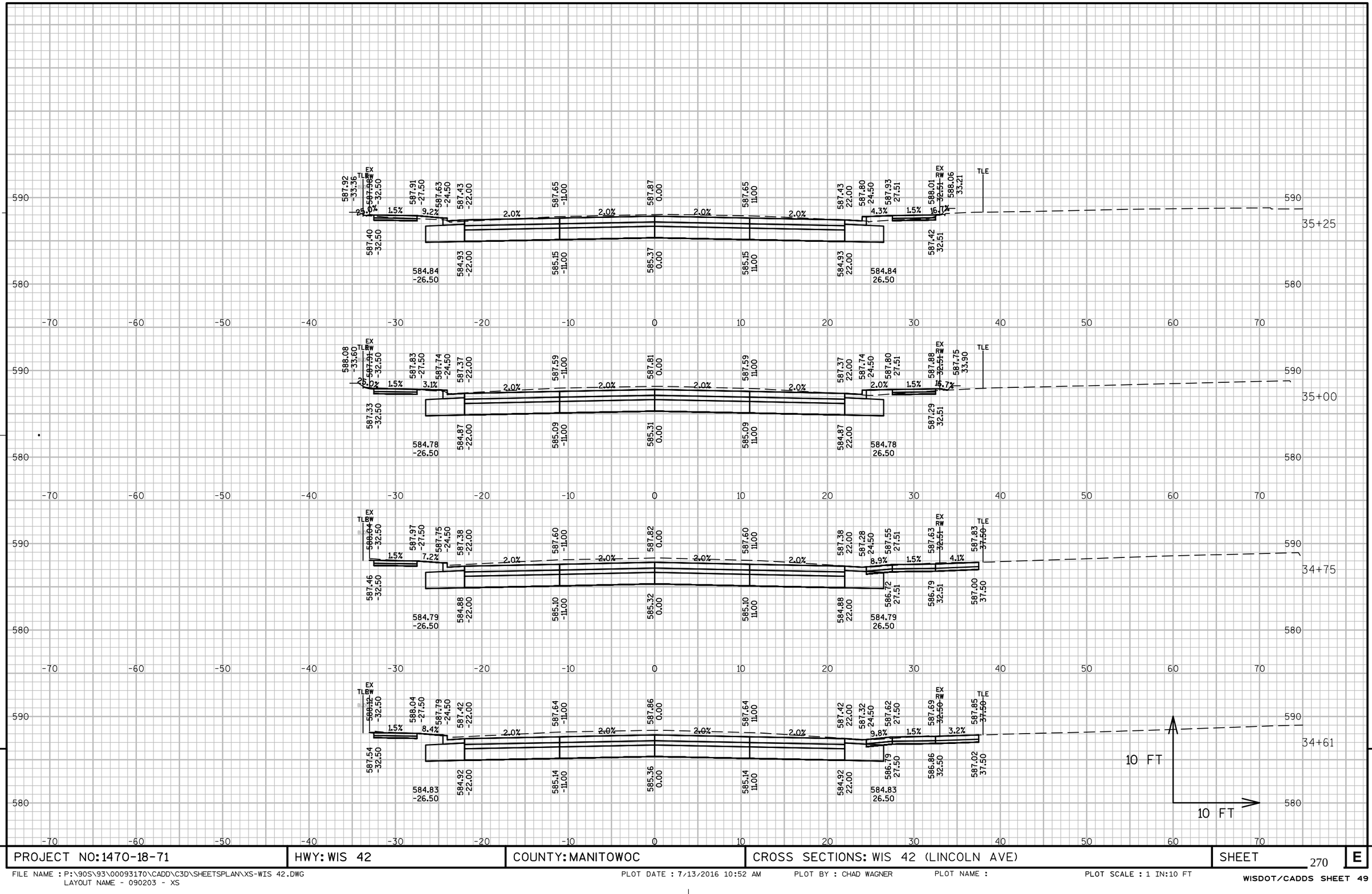
PLOT DATE : 7/13/2016 10:50 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO:1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 269	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090202 - XS

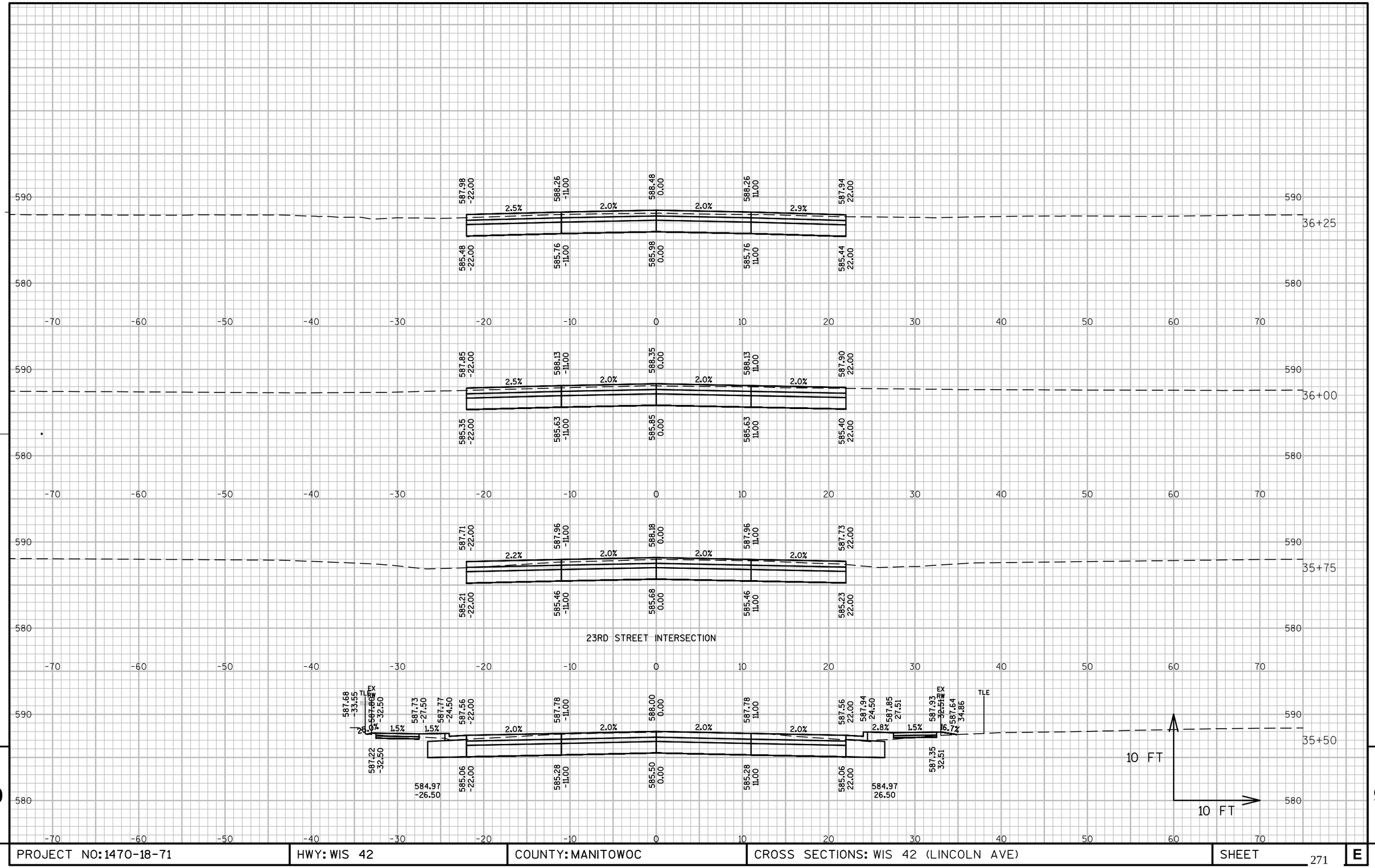
PLOT DATE : 7/13/2016 10:51 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 270	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090203 - XS

PLOT DATE : 7/13/2016 10:52 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

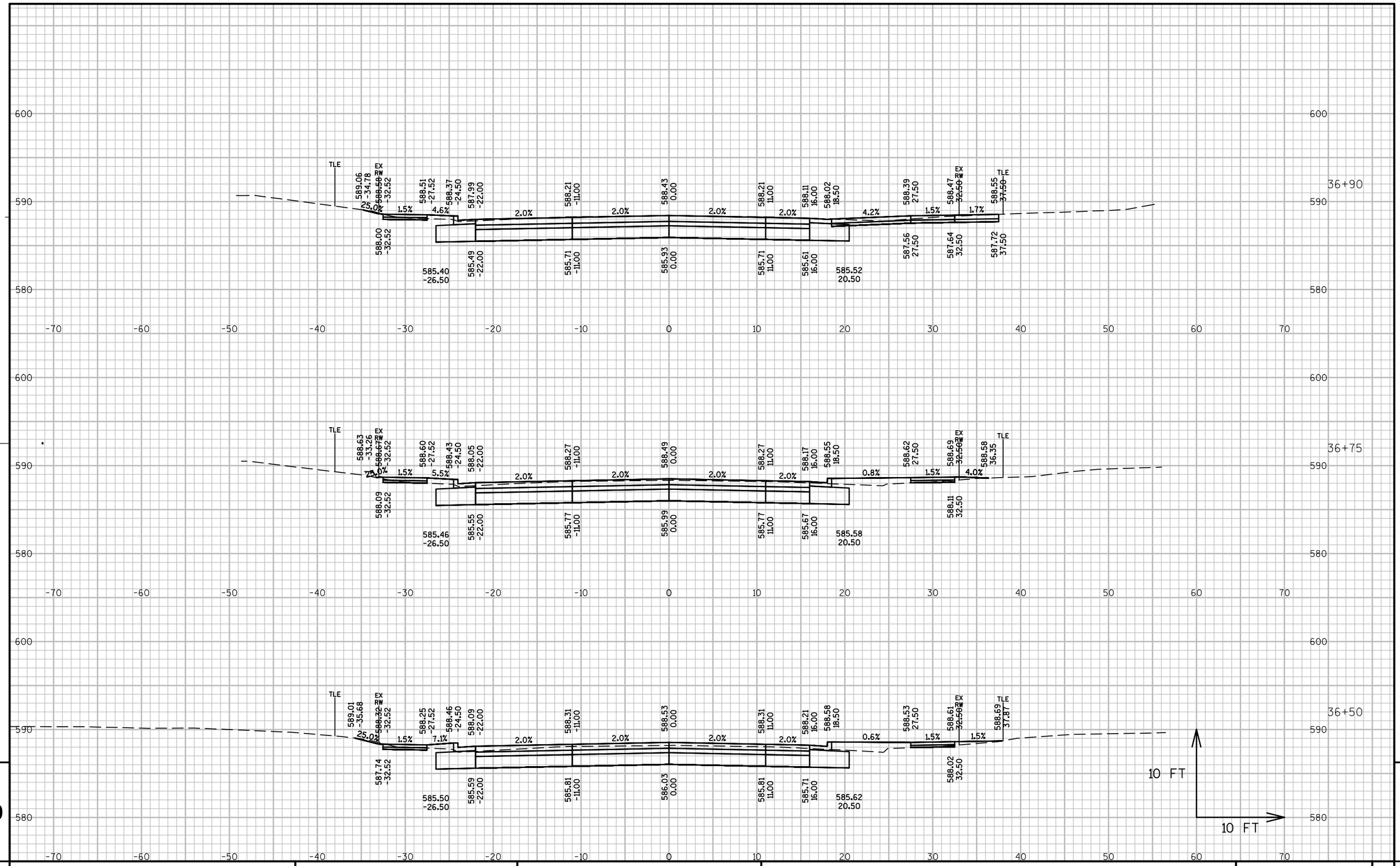


PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 271	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090204 - XS

PLOT DATE : 7/13/2016 10:53 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



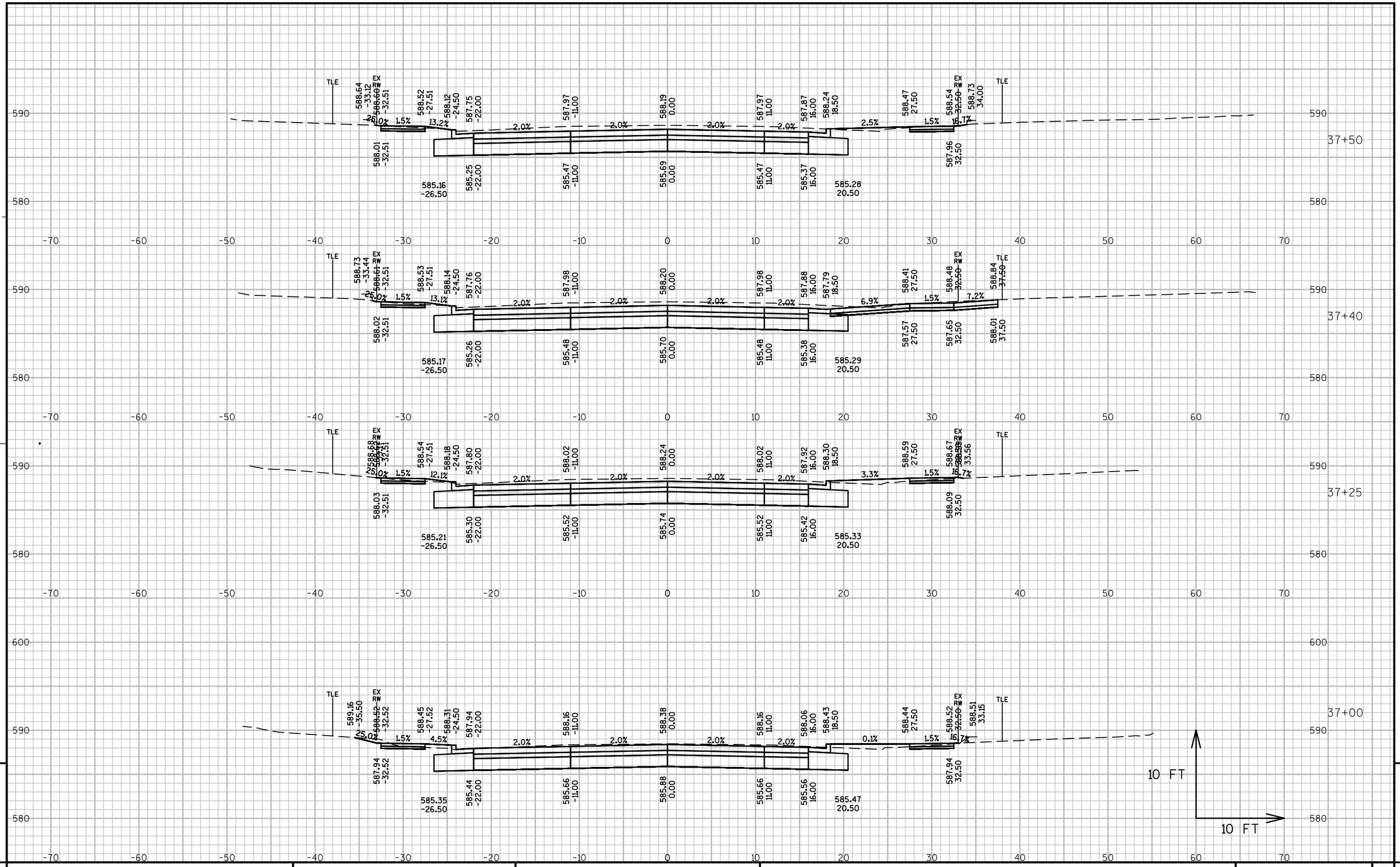
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 272	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090205 - XS

PLOT DATE : 7/13/2016 10:54 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

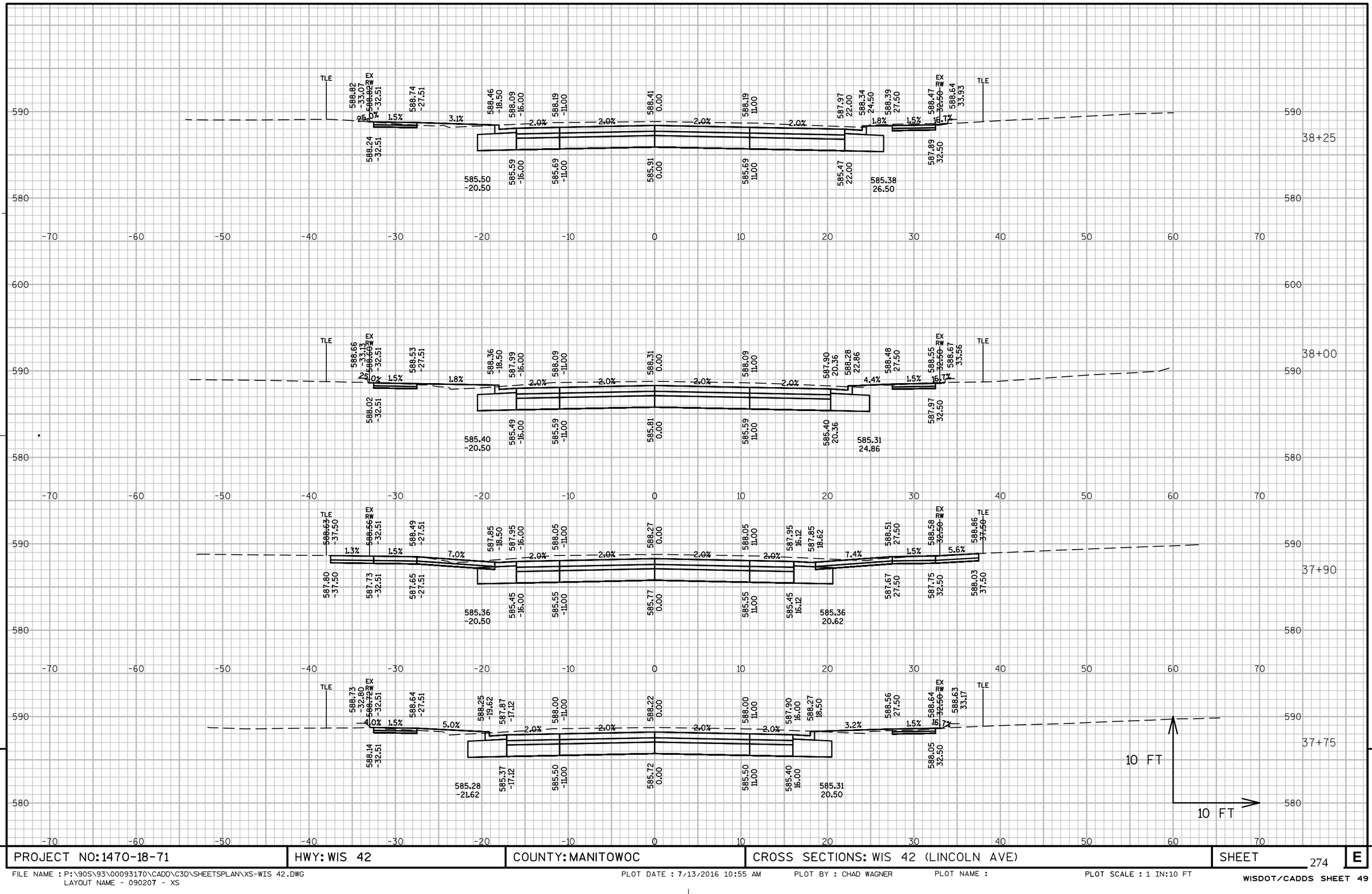


PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 273 E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090206 - XS

PLOT DATE : 7/13/2016 10:54 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

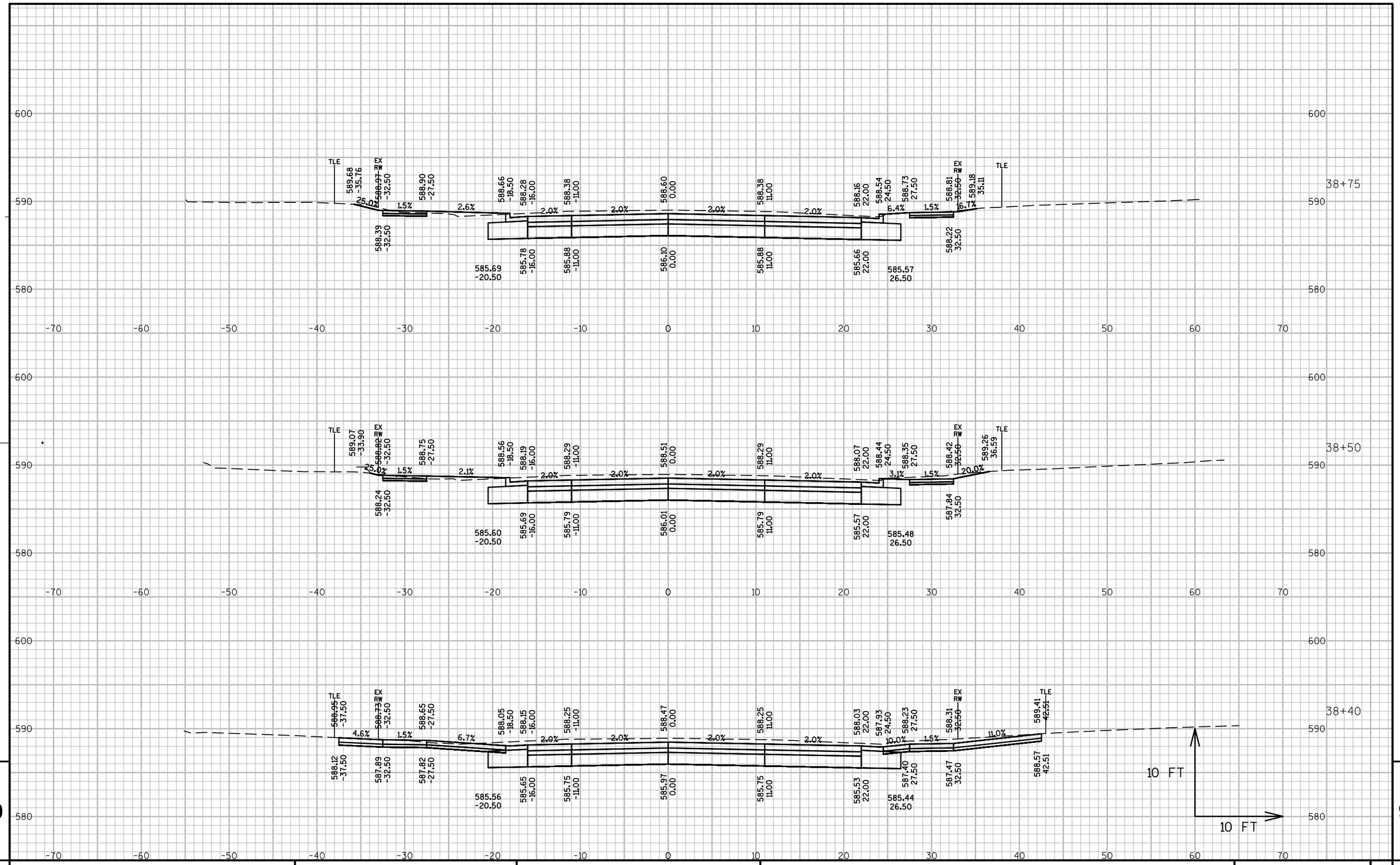


PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 274	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090207 - XS

PLOT DATE : 7/13/2016 10:55 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

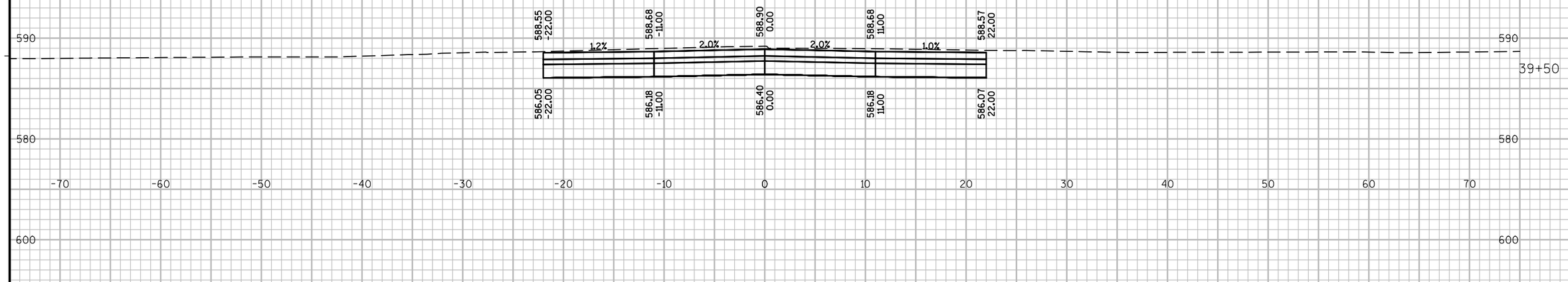
WISDOT/CADDS SHEET 49

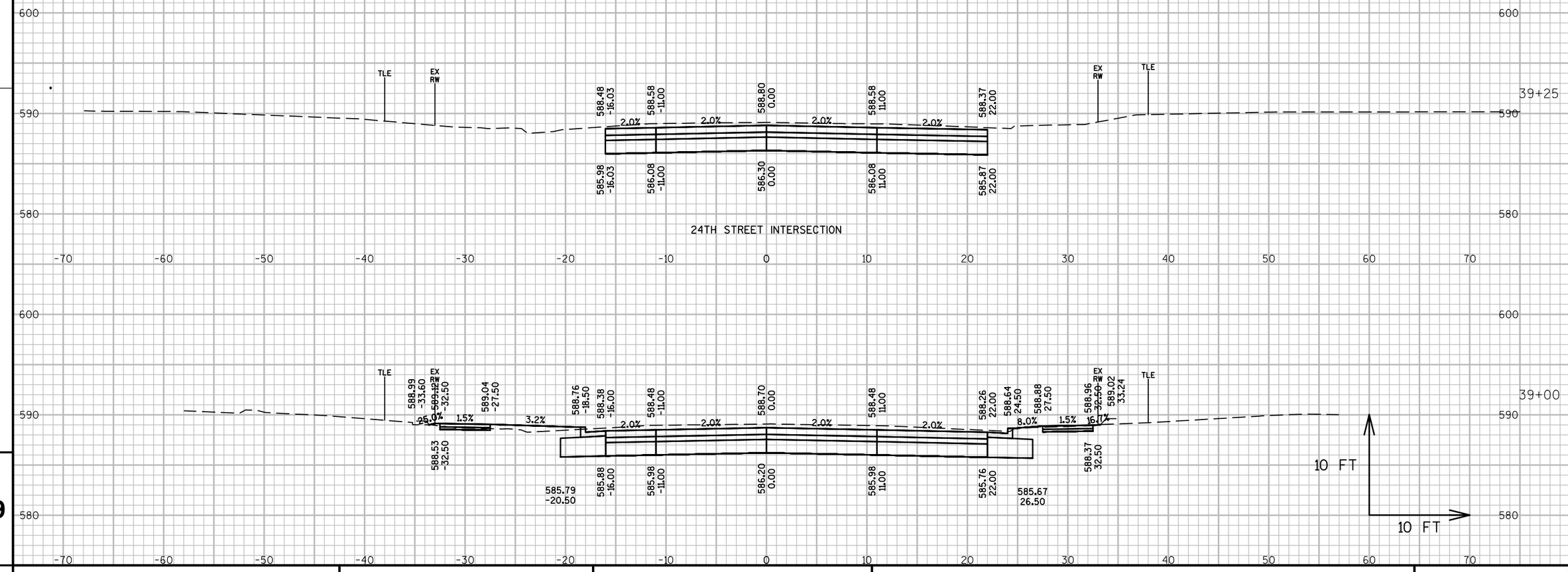


PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 275	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090208 - XS

PLOT DATE : 7/13/2016 10:56 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT





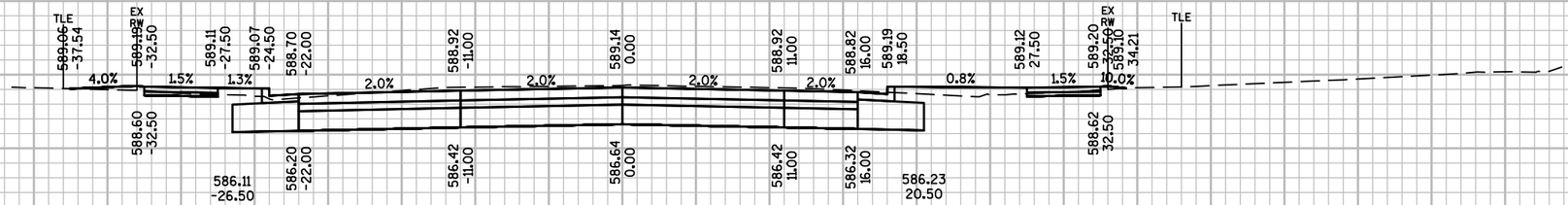
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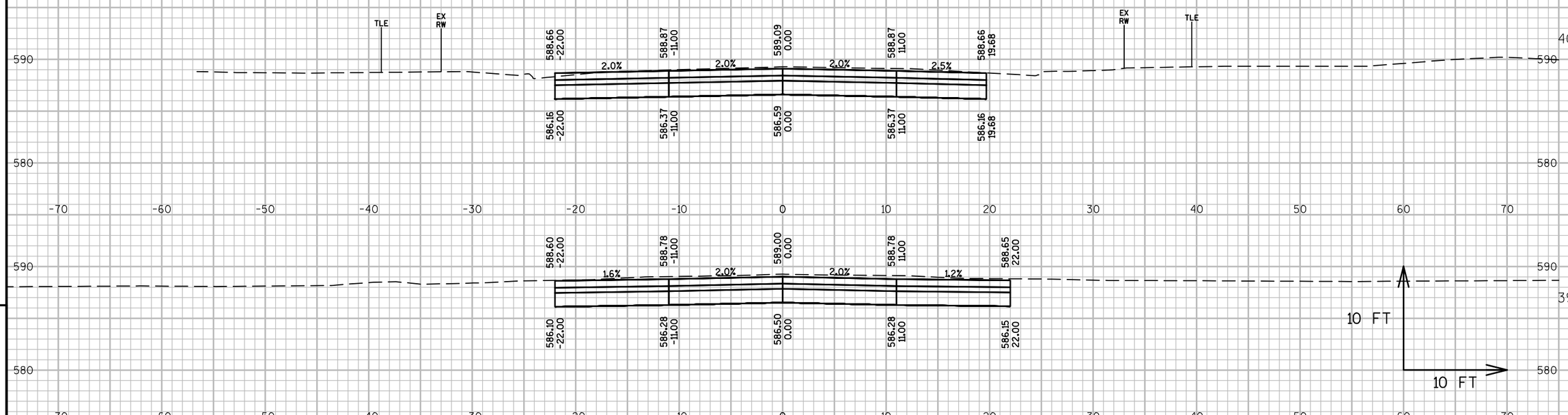
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 276	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090209 - XS

PLOT DATE : 7/13/2016 10:57 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT





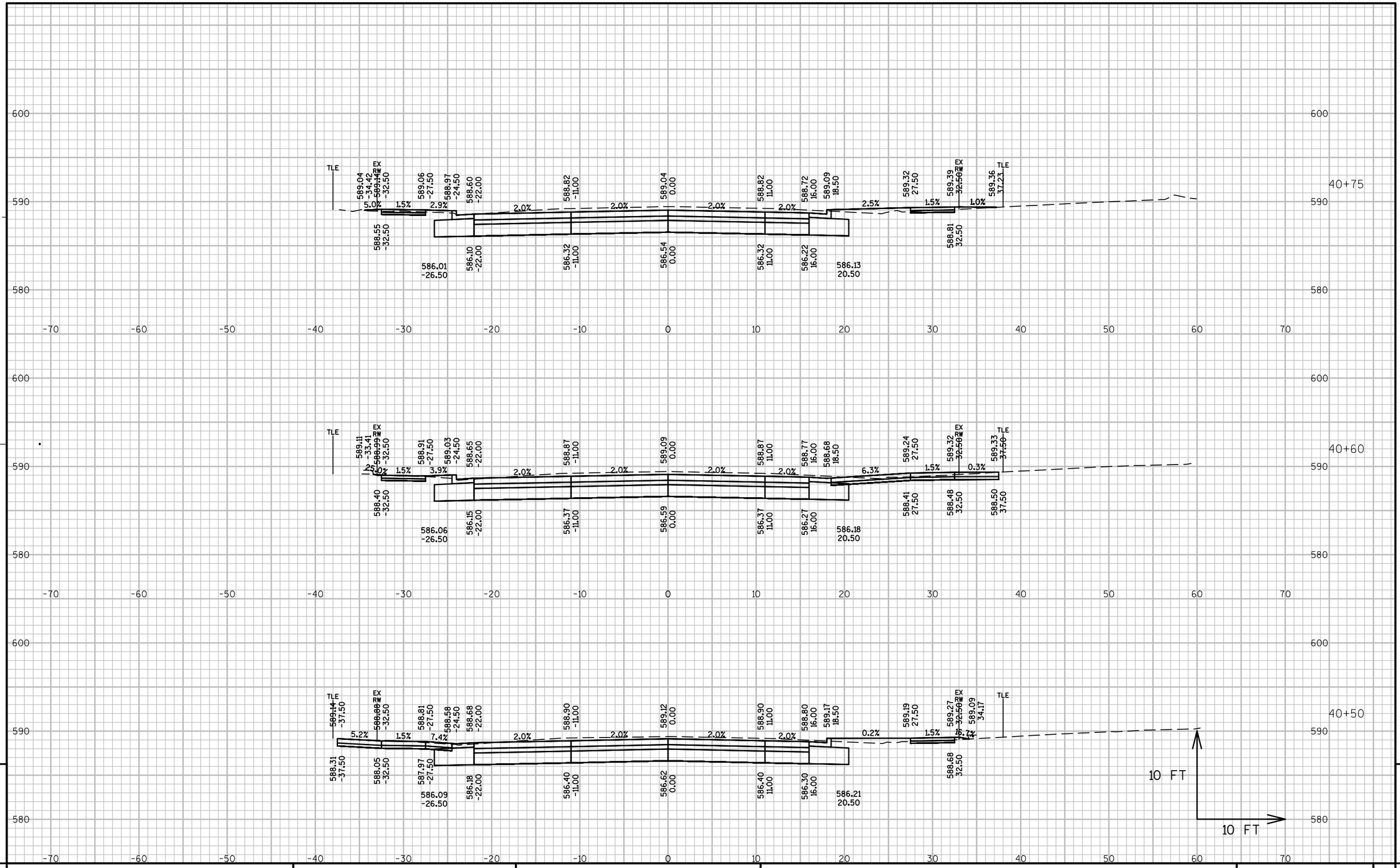
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 277	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090210 - XS

PLOT DATE : 7/13/2016 10:57 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

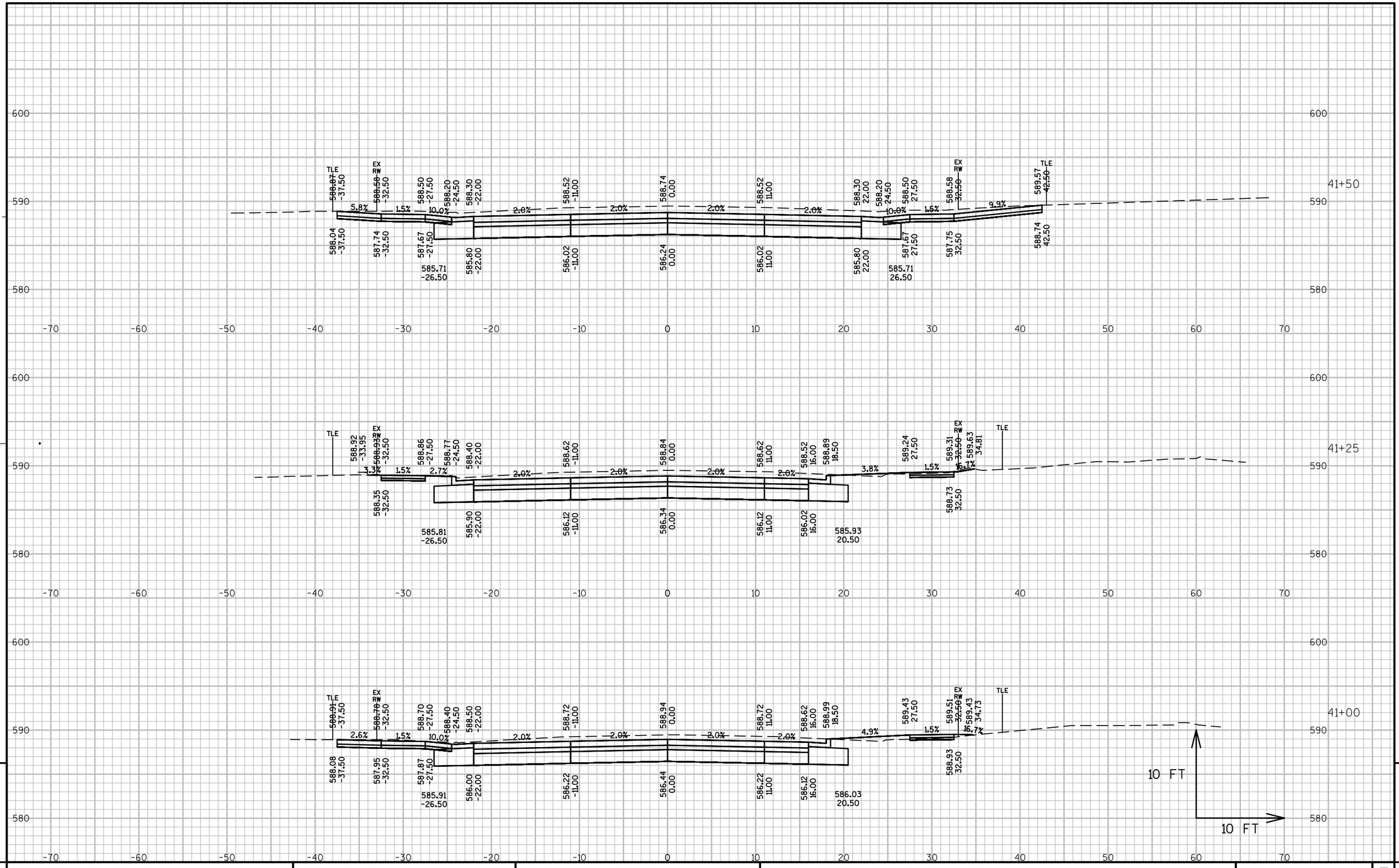


PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 278	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090211 - XS

PLOT DATE : 7/13/2016 10:58 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

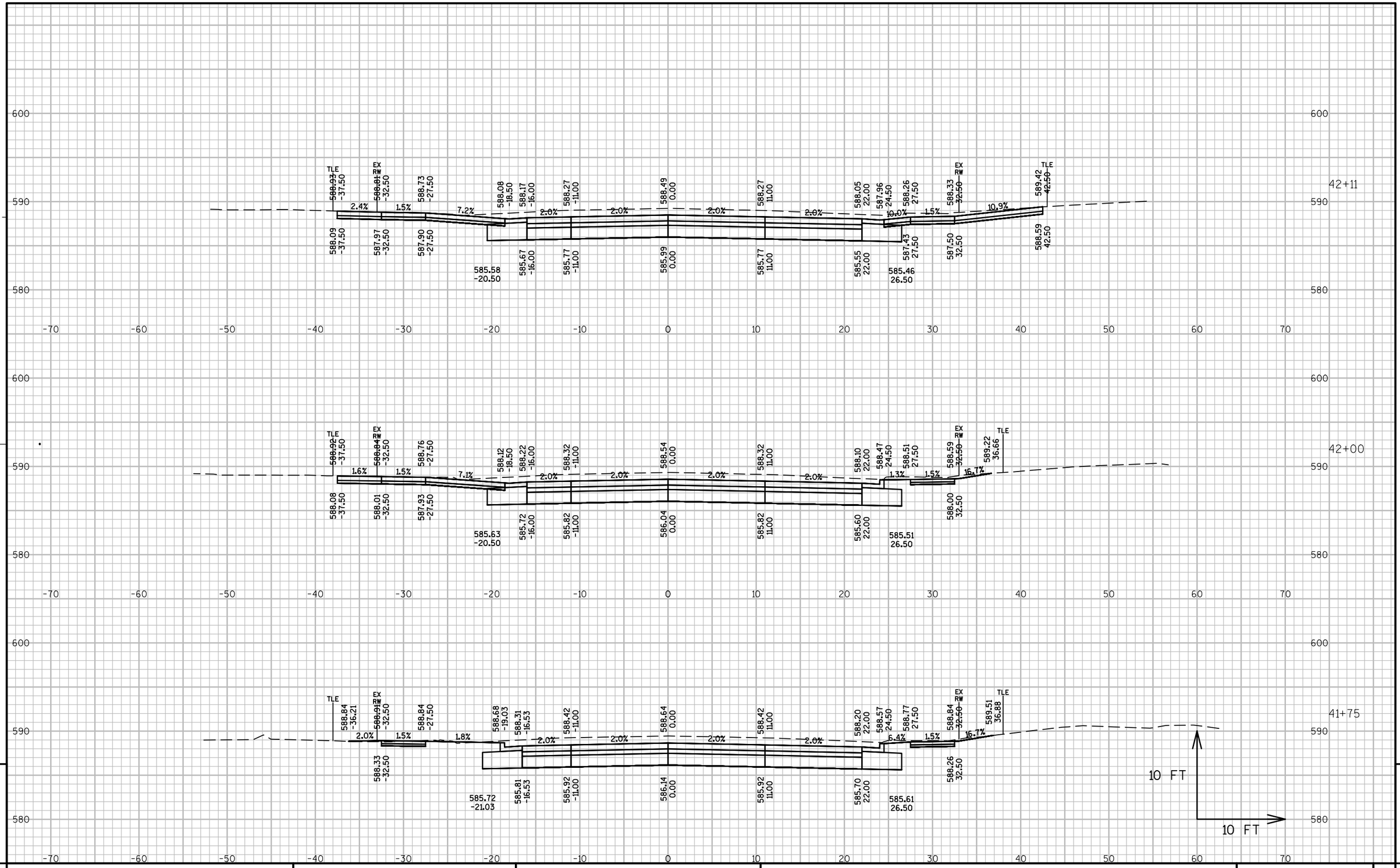
WISDOT/CADDS SHEET 49



PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 279	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090212 - XS

PLOT DATE : 7/13/2016 10:59 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT



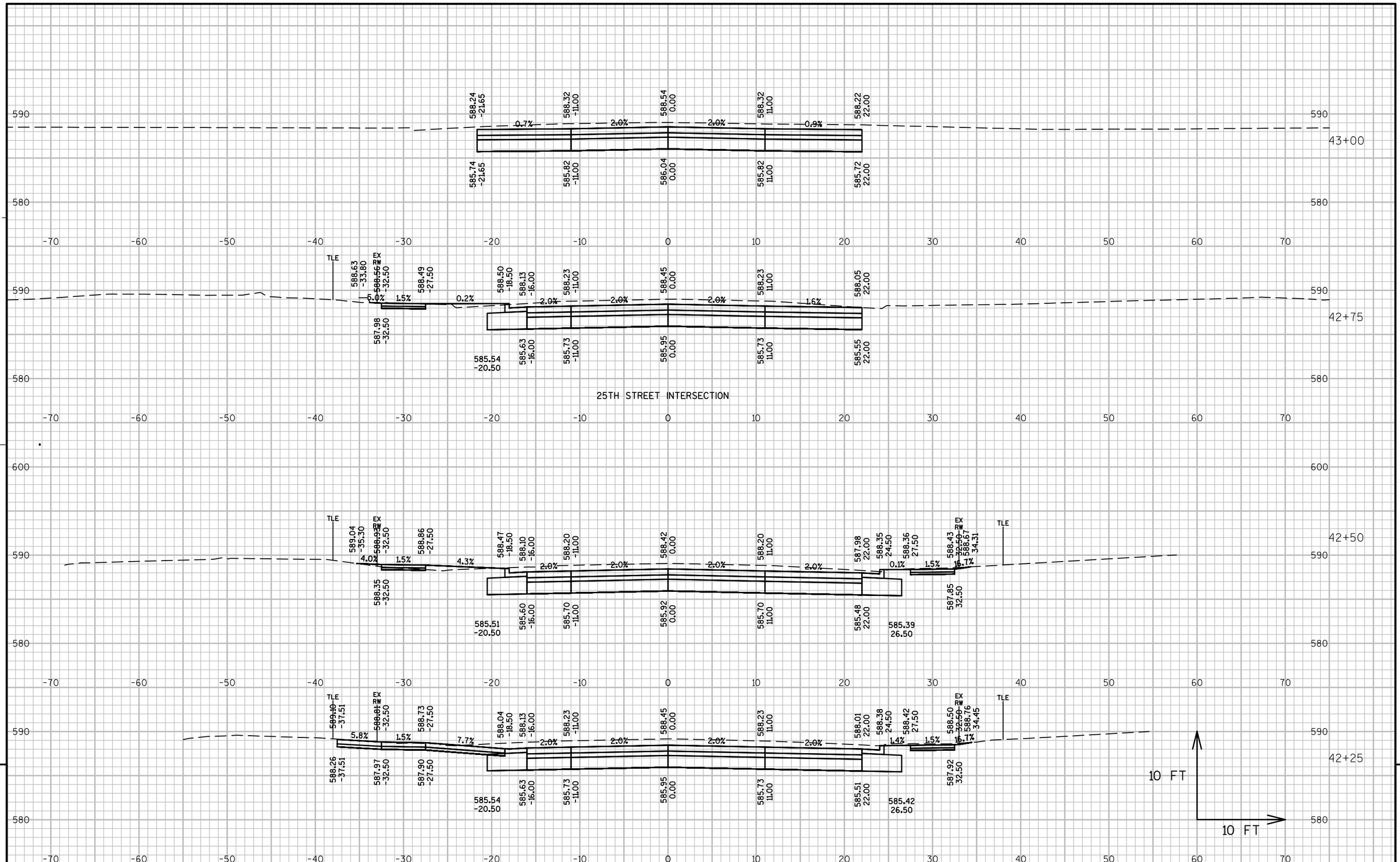
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 280	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090213 - XS

PLOT DATE : 7/13/2016 11:00 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT



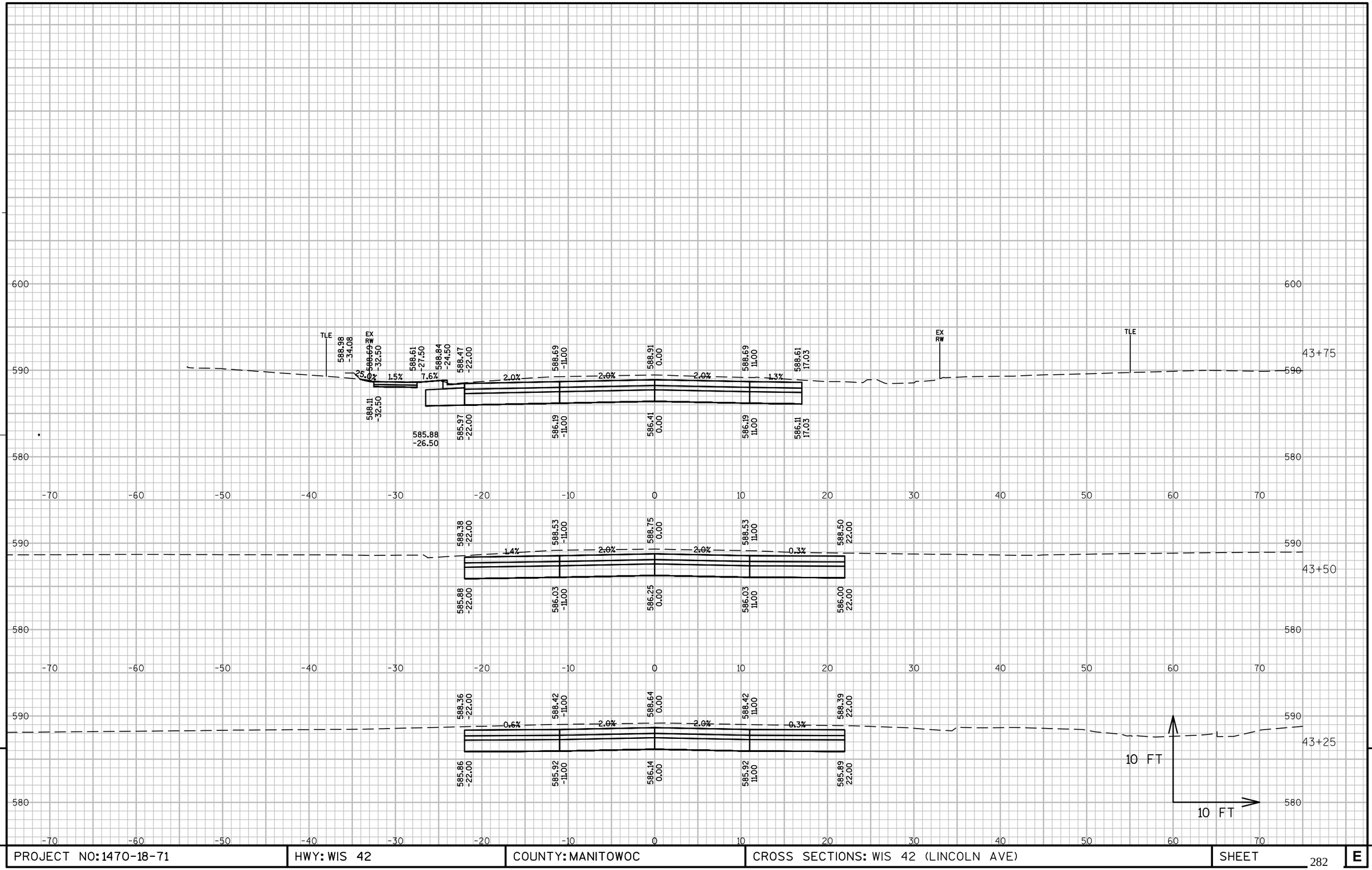
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 281 E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090214 - XS

PLOT DATE : 7/13/2016 11:01 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

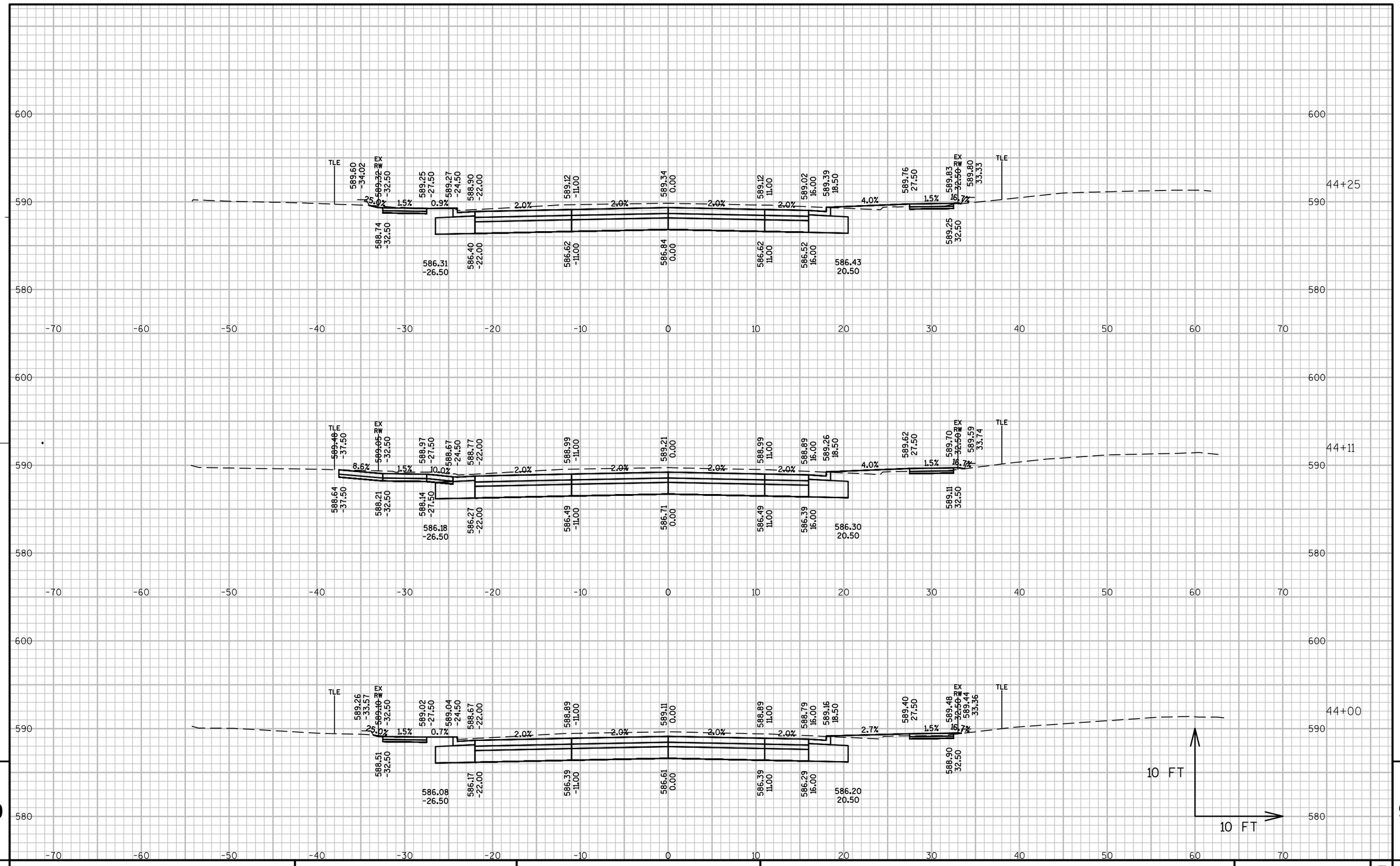


PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 282	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090215 - XS

PLOT DATE : 7/13/2016 11:01 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



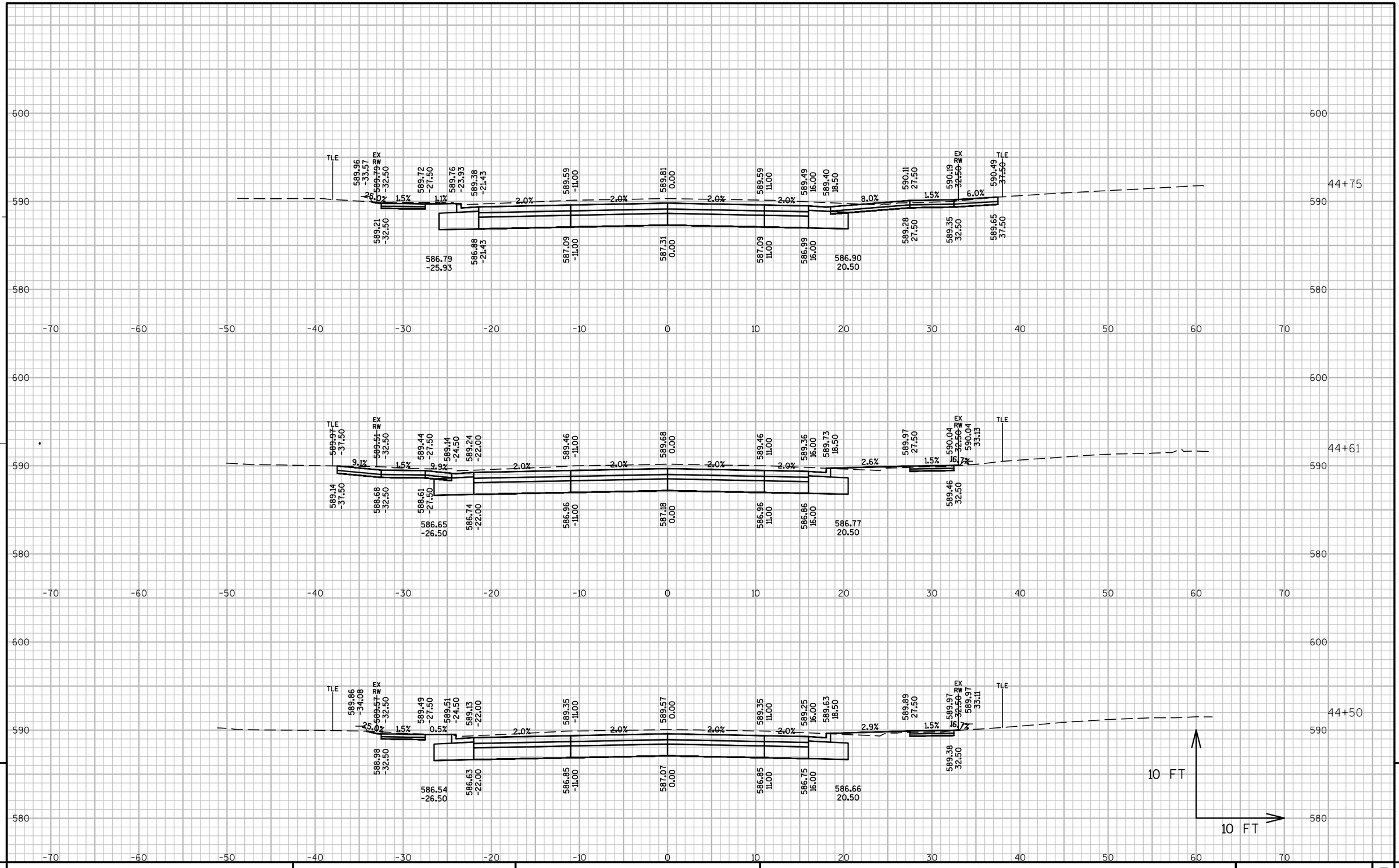
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 283	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090216 - XS

PLOT DATE : 7/13/2016 11:02 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT



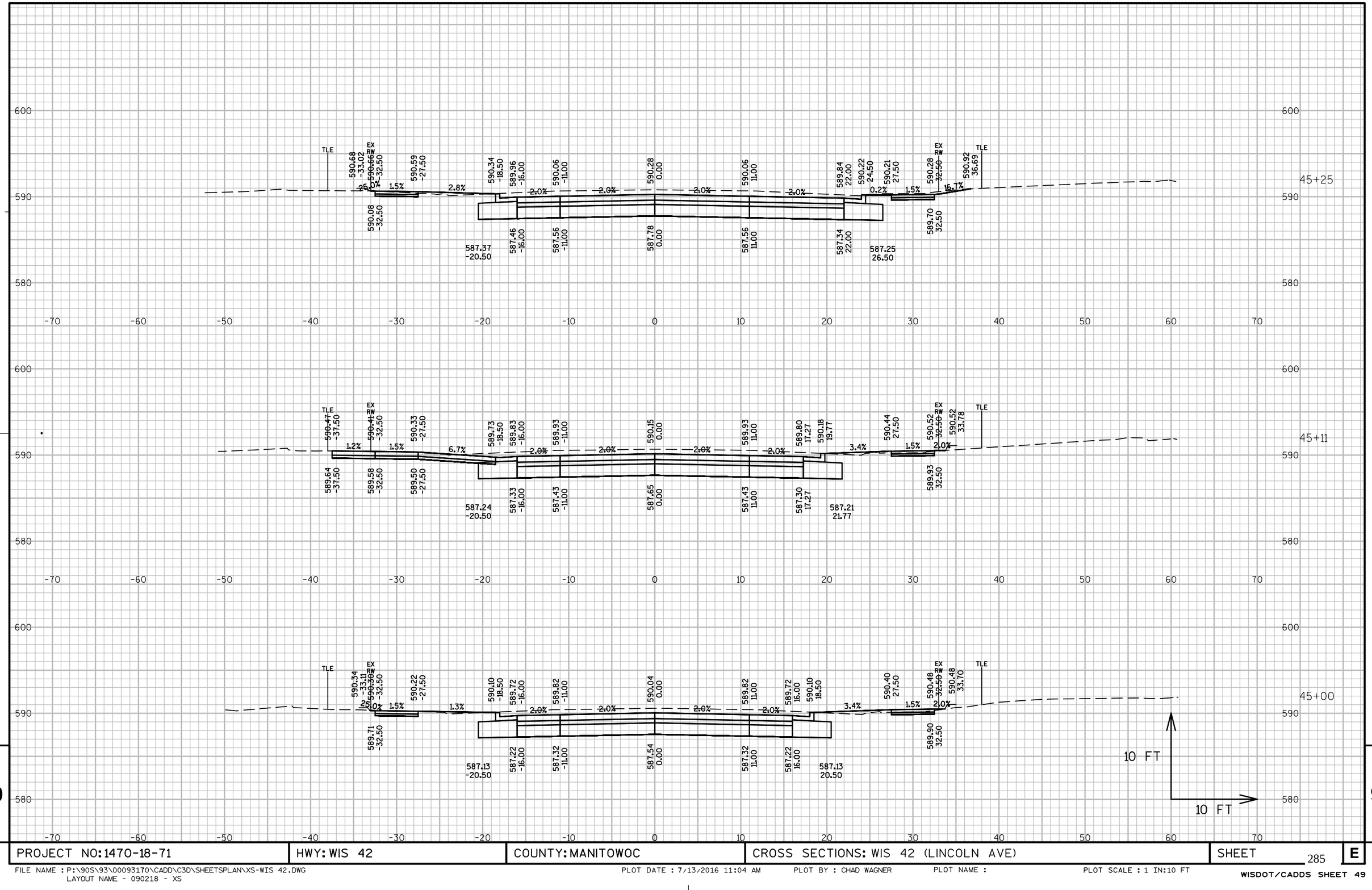
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 284	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090217 - XS

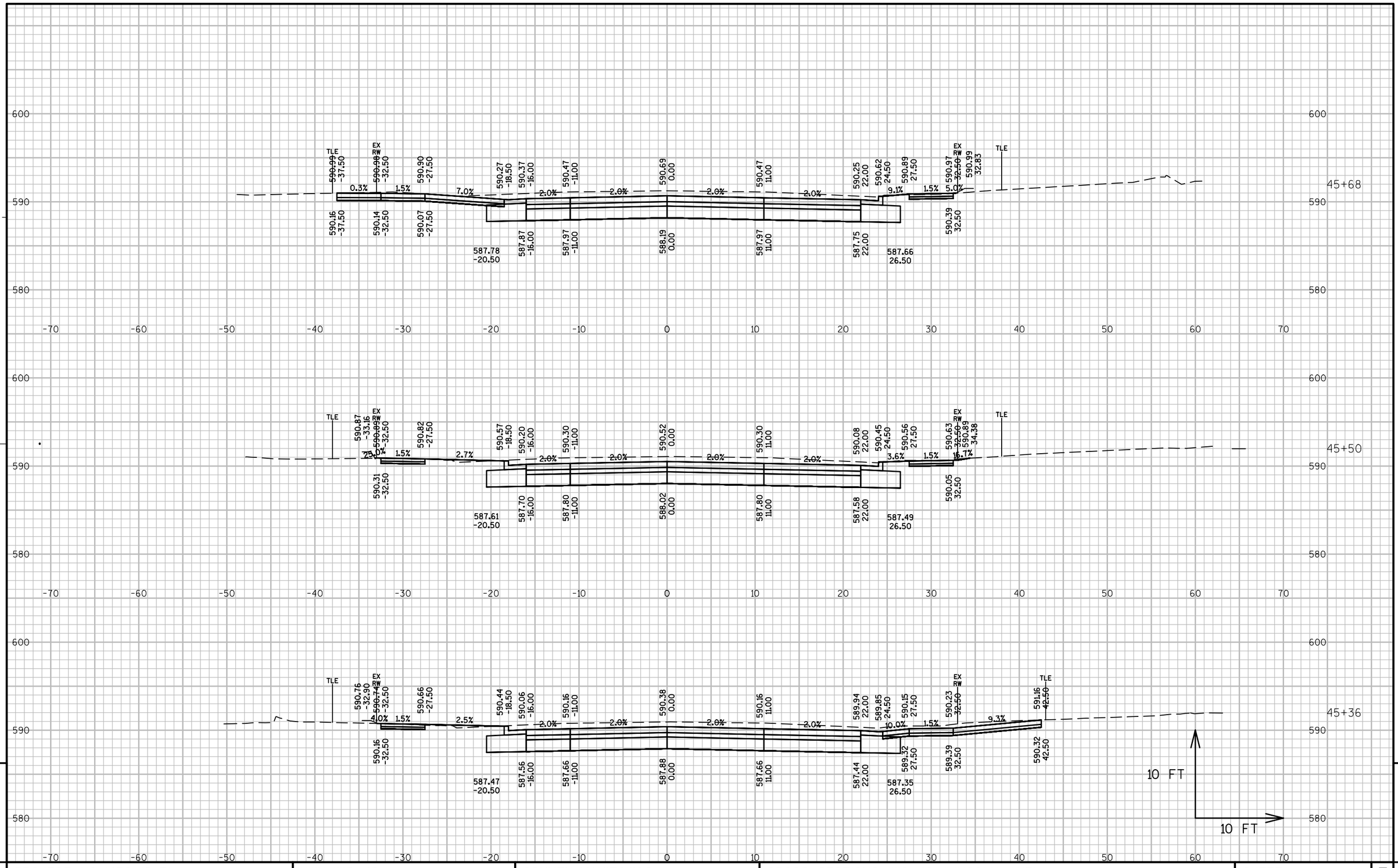
PLOT DATE : 7/13/2016 11:03 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 285	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090218 - XS

PLOT DATE : 7/13/2016 11:04 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT



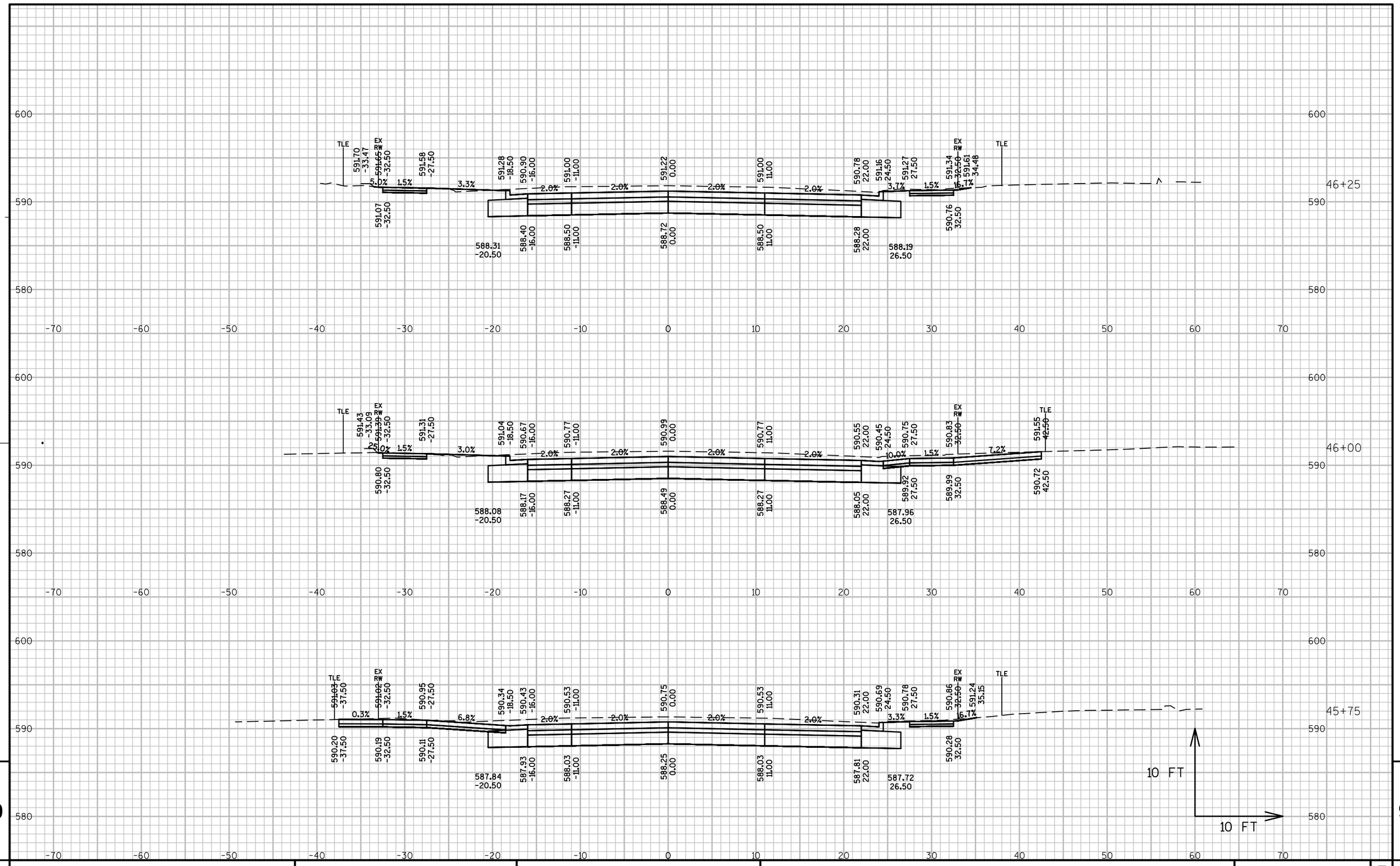
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 286	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090219 - XS

PLOT DATE : 7/13/2016 11:04 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

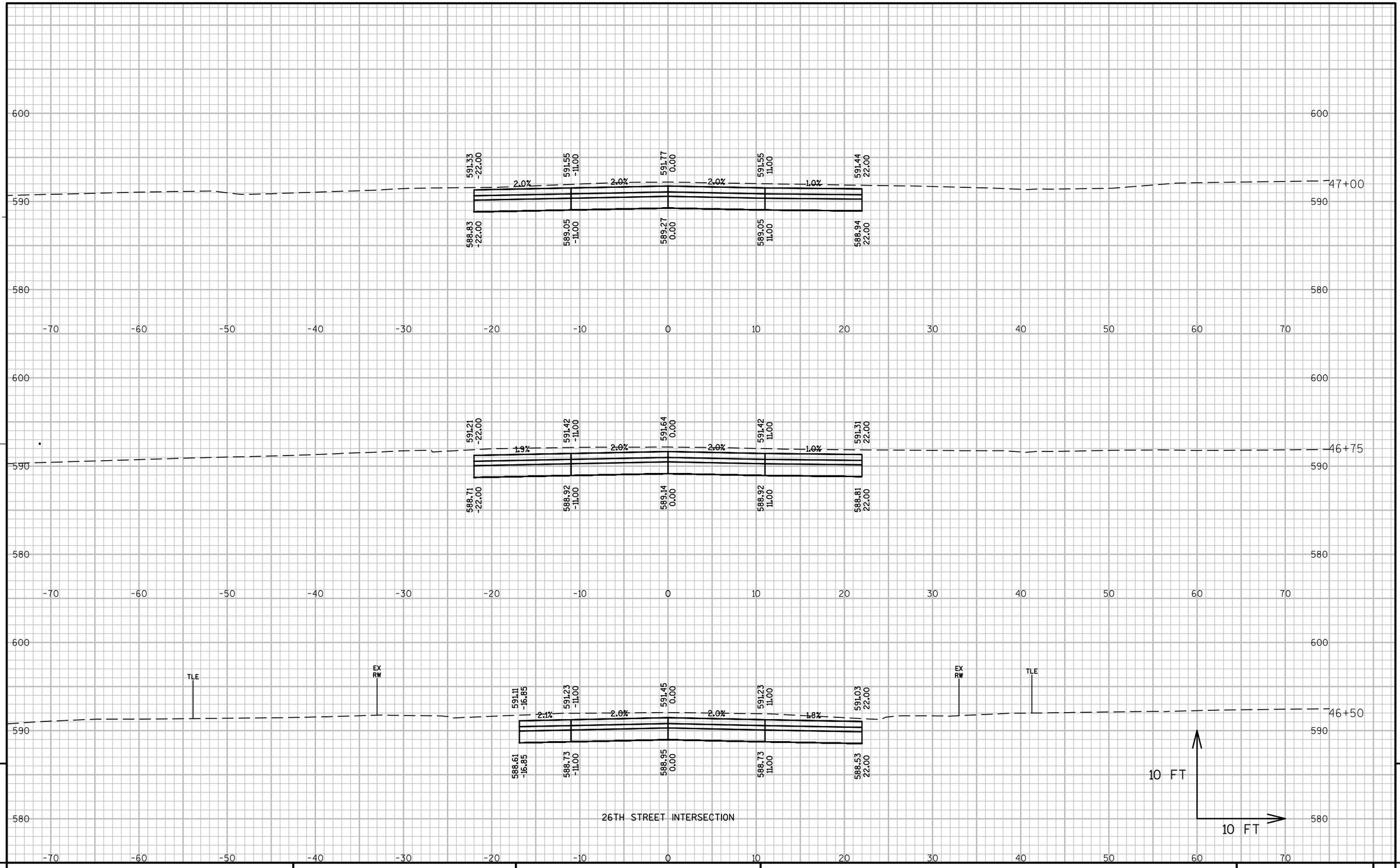


PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 287	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090220 - XS

PLOT DATE : 7/13/2016 11:05 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

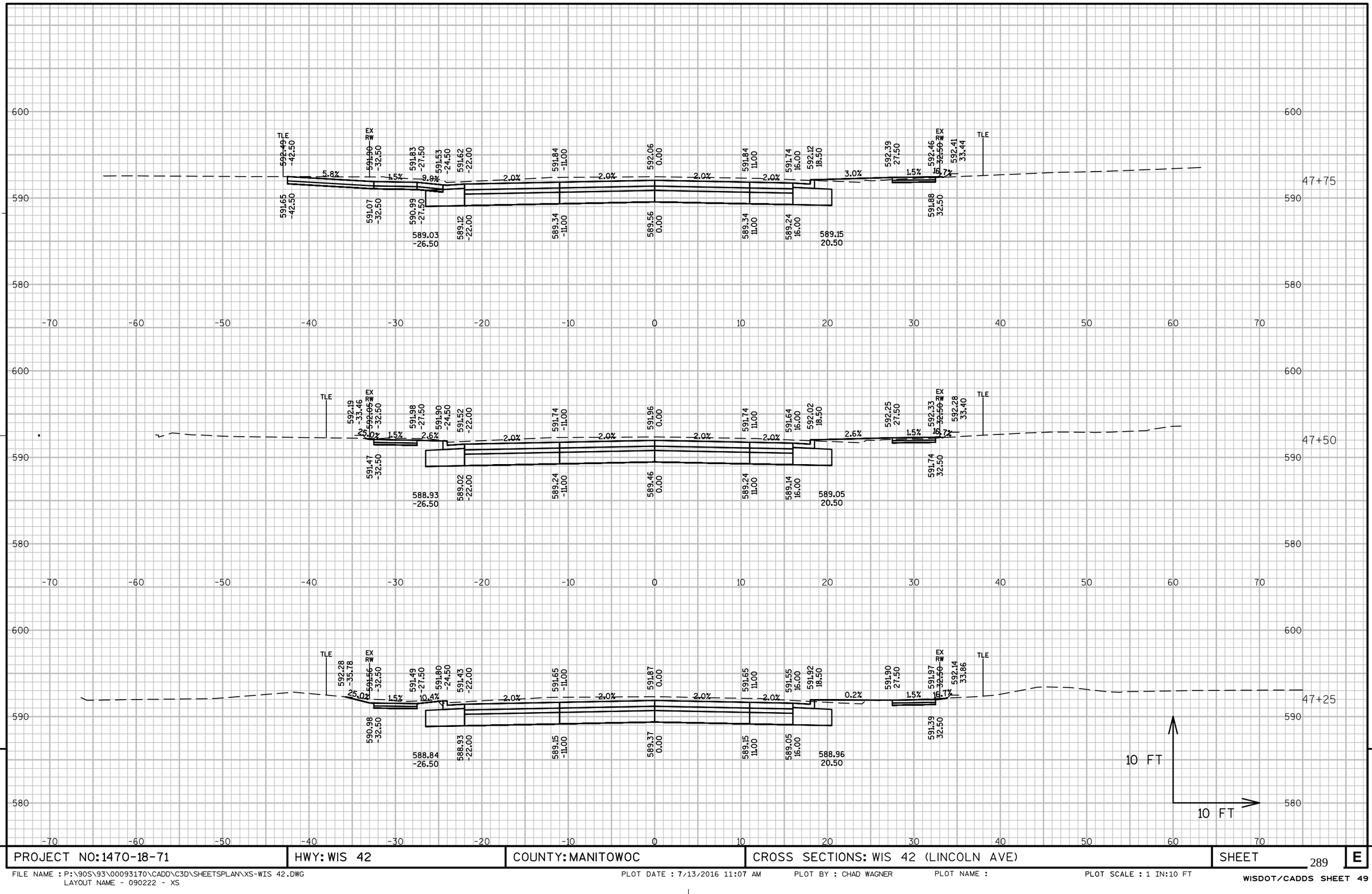


PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 288	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090221 - XS

PLOT DATE : 7/13/2016 11:06 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

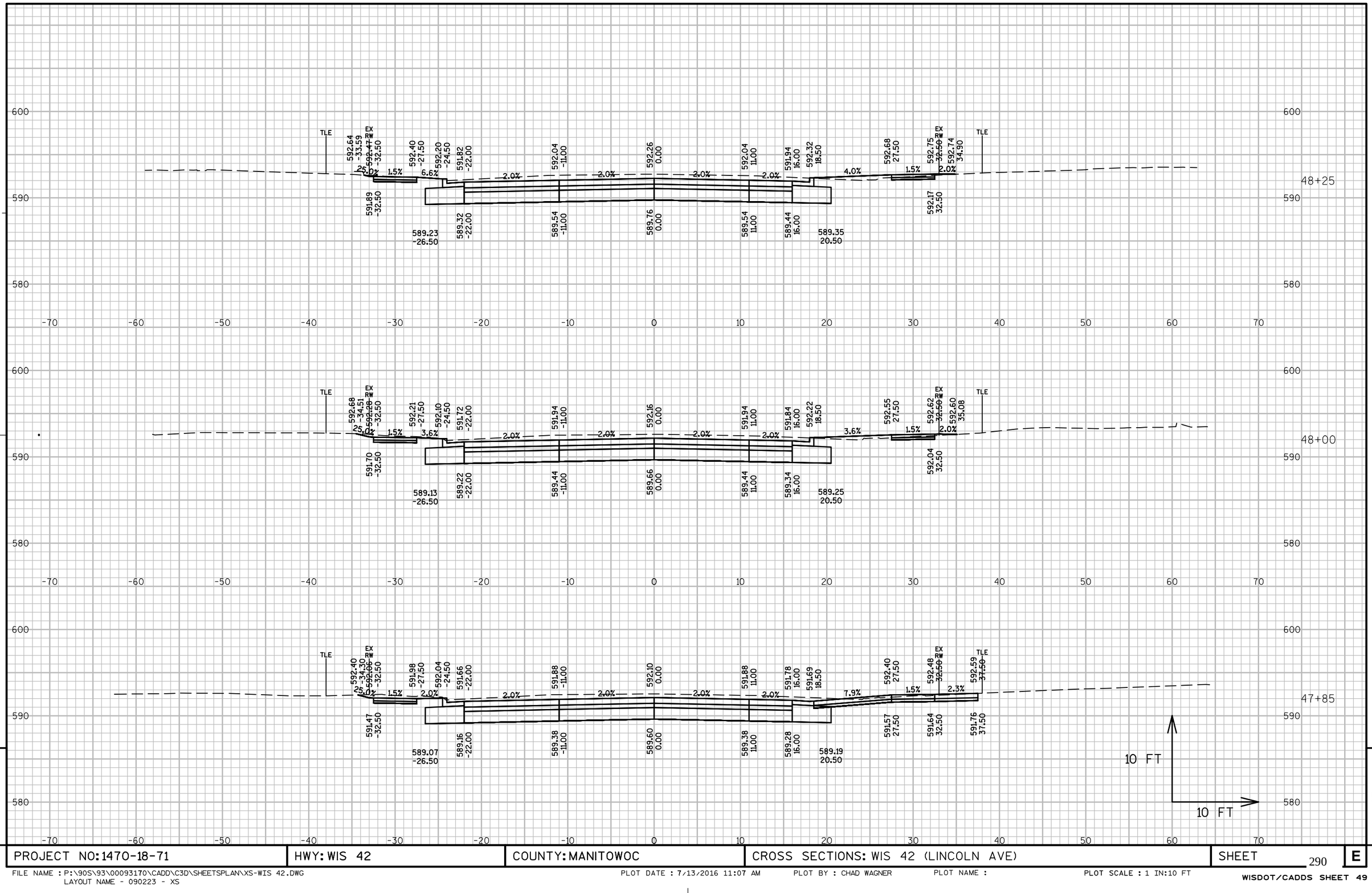
WISDOT/CADDS SHEET 49



PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 289	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090222 - XS

PLOT DATE : 7/13/2016 11:07 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

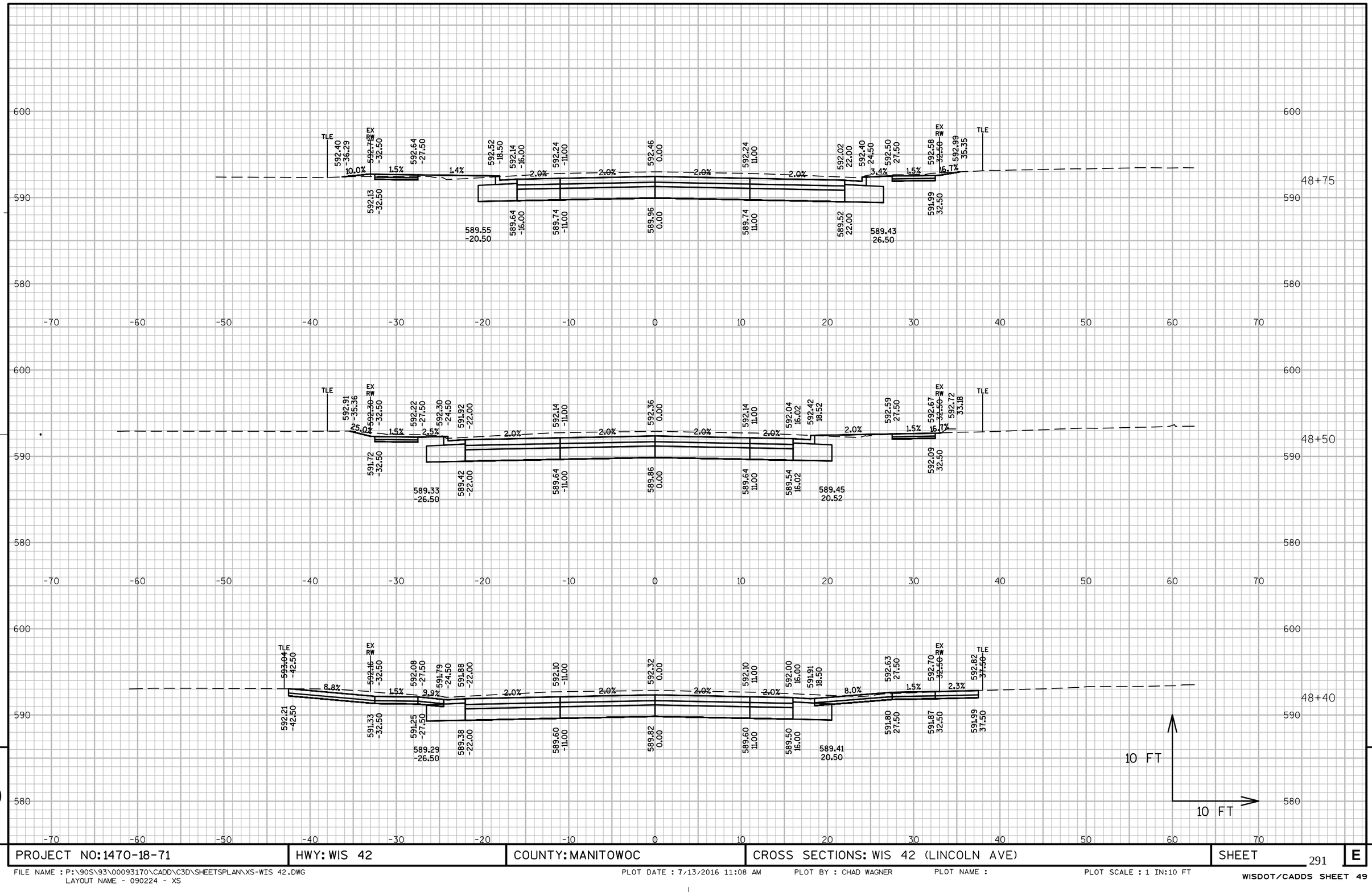


PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 290	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090223 - XS

PLOT DATE : 7/13/2016 11:07 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



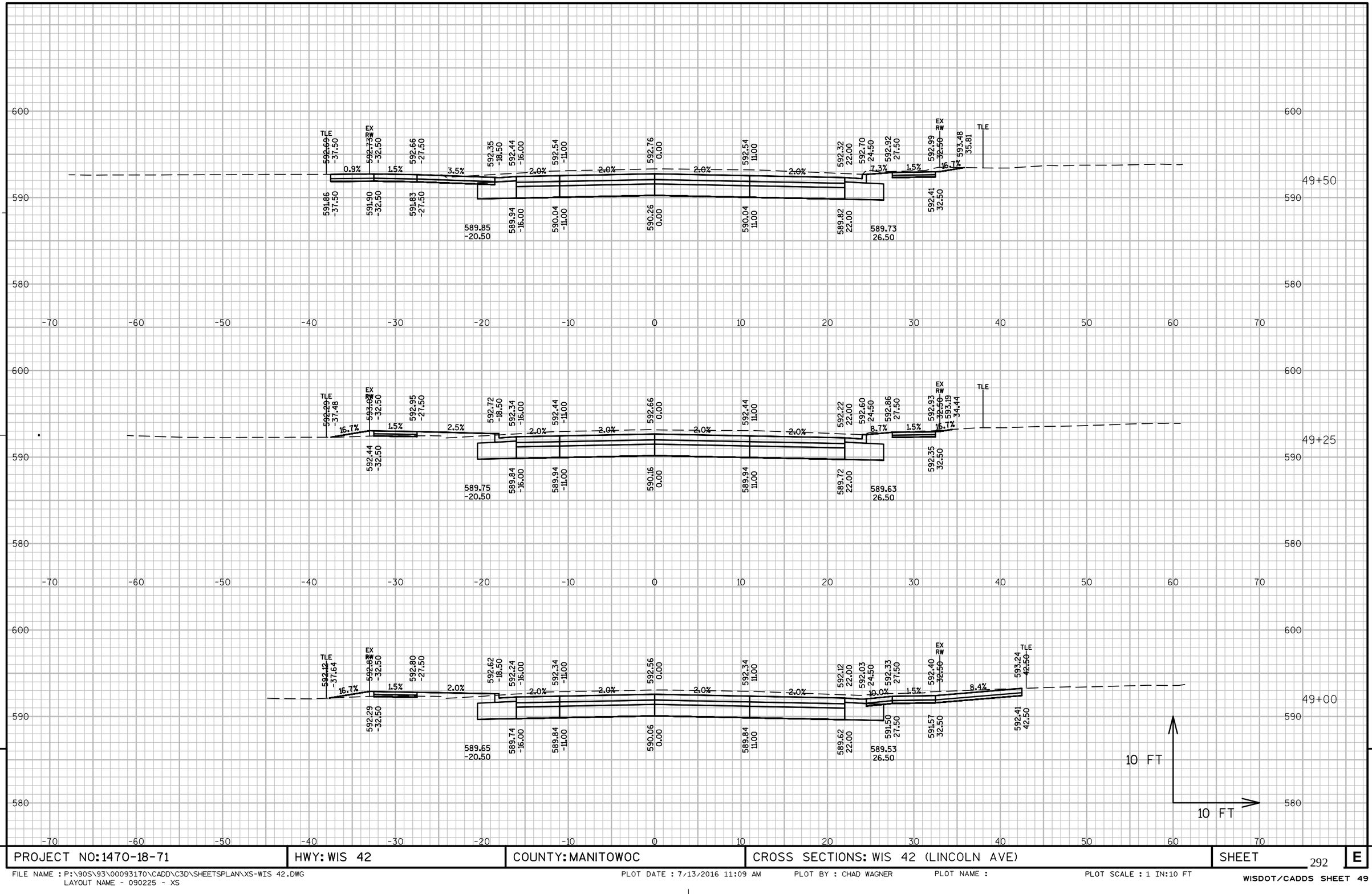
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 291	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090224 - XS

PLOT DATE : 7/13/2016 11:08 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT



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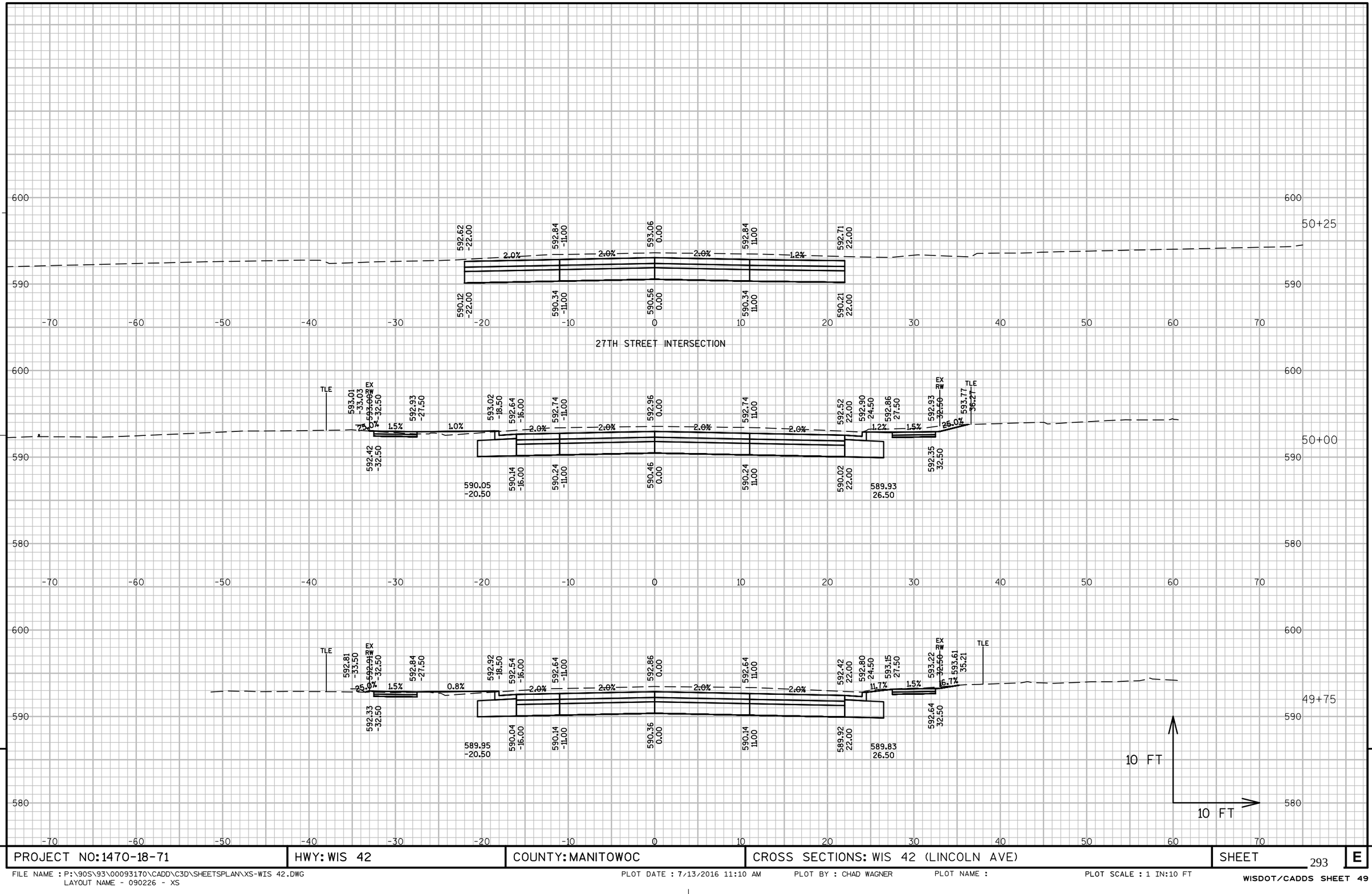
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 292	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090225 - XS

PLOT DATE : 7/13/2016 11:09 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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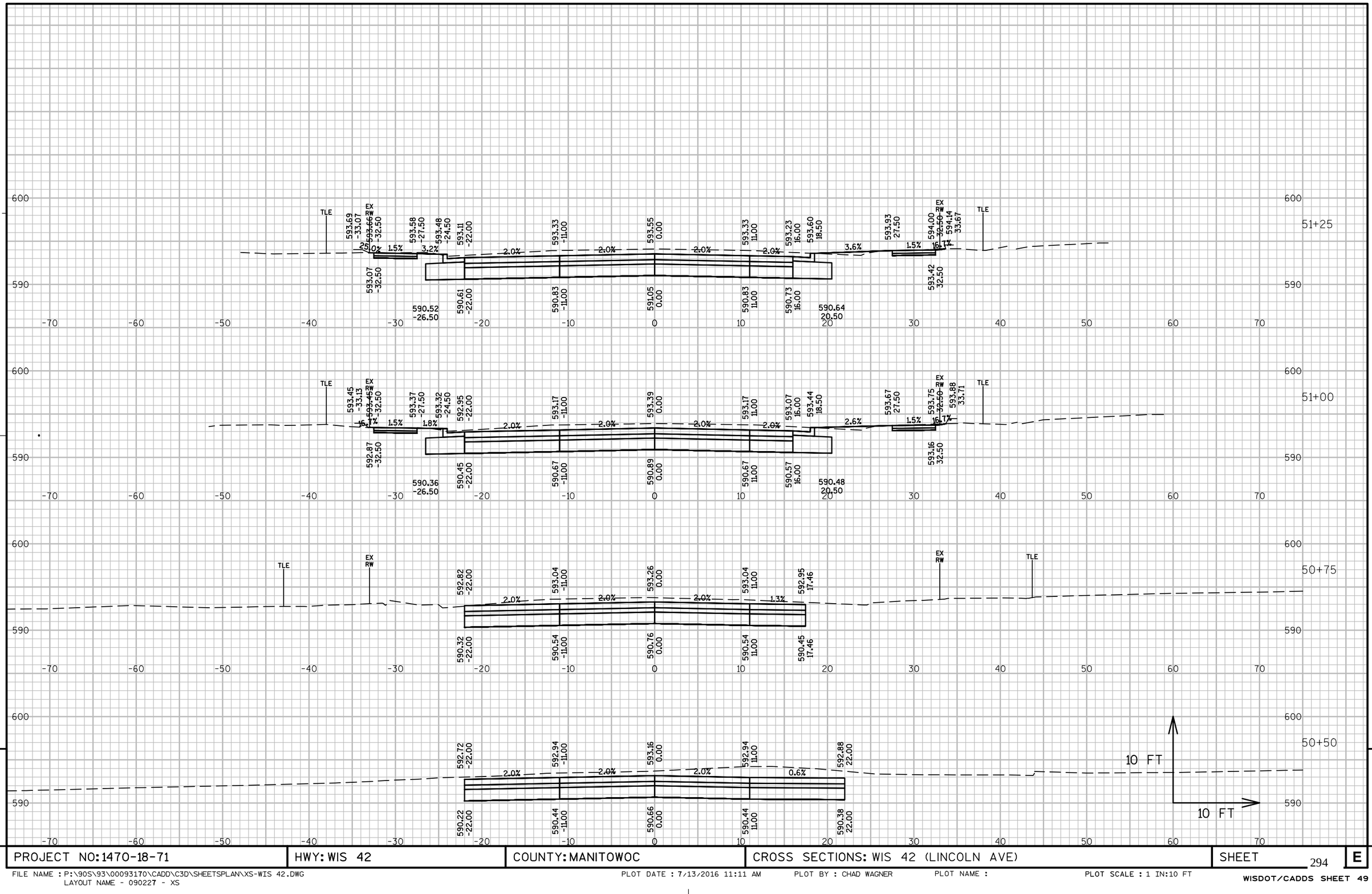
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 293	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090226 - XS

PLOT DATE : 7/13/2016 11:10 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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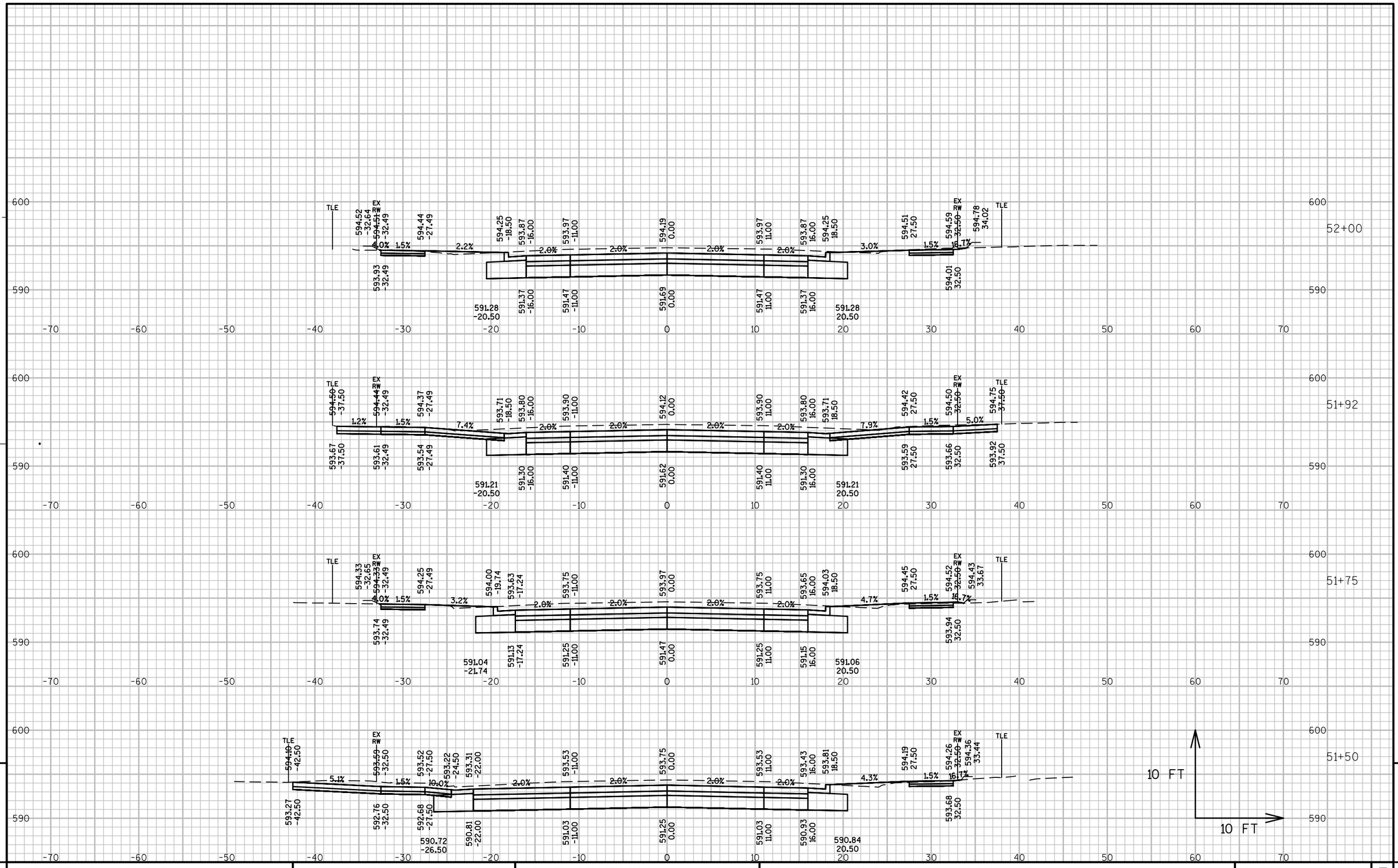
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 294	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090227 - XS

PLOT DATE : 7/13/2016 11:11 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

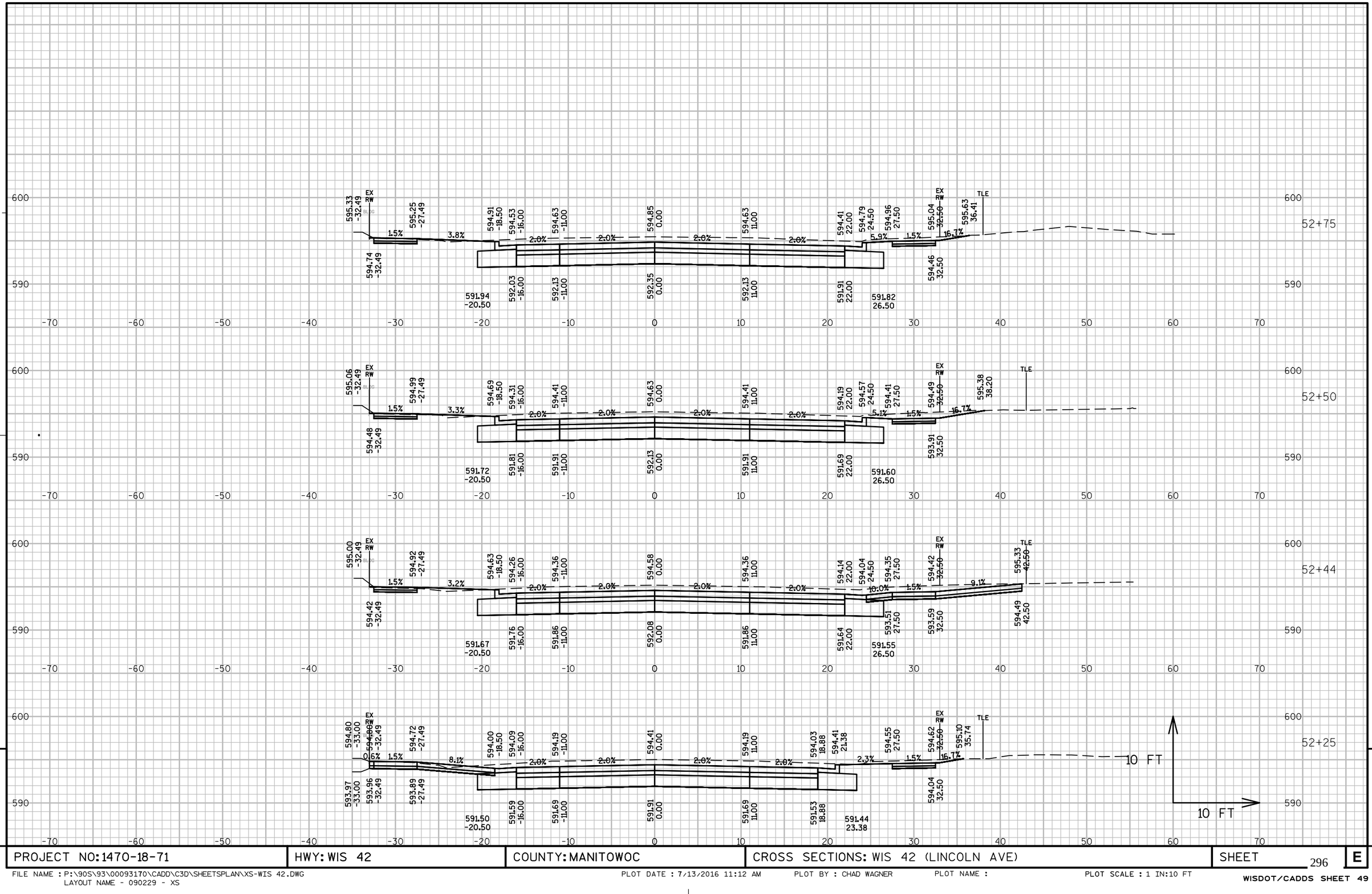


PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 295	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090228 - XS

PLOT DATE : 7/13/2016 11:11 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



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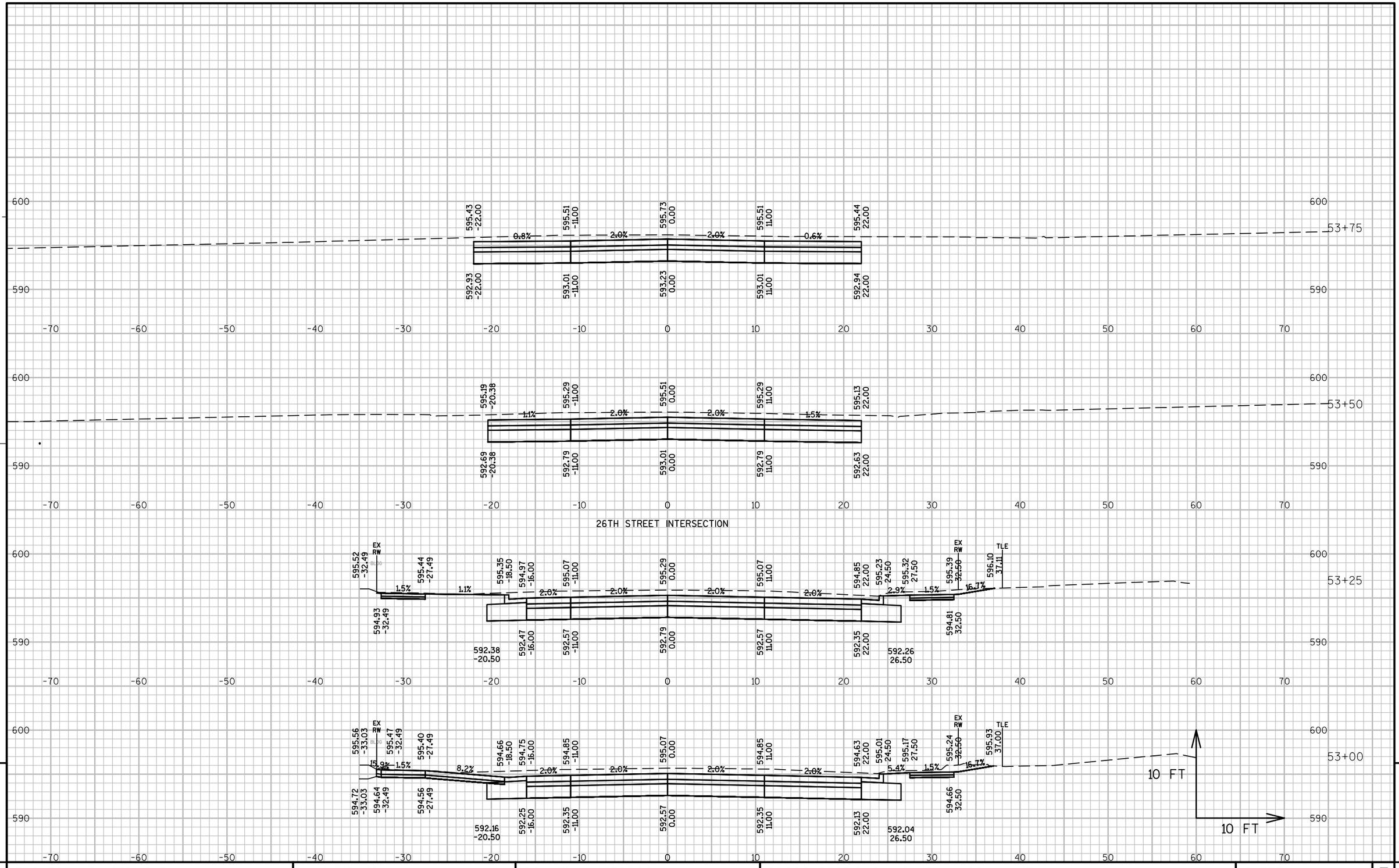
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 296	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090229 - XS

PLOT DATE : 7/13/2016 11:12 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

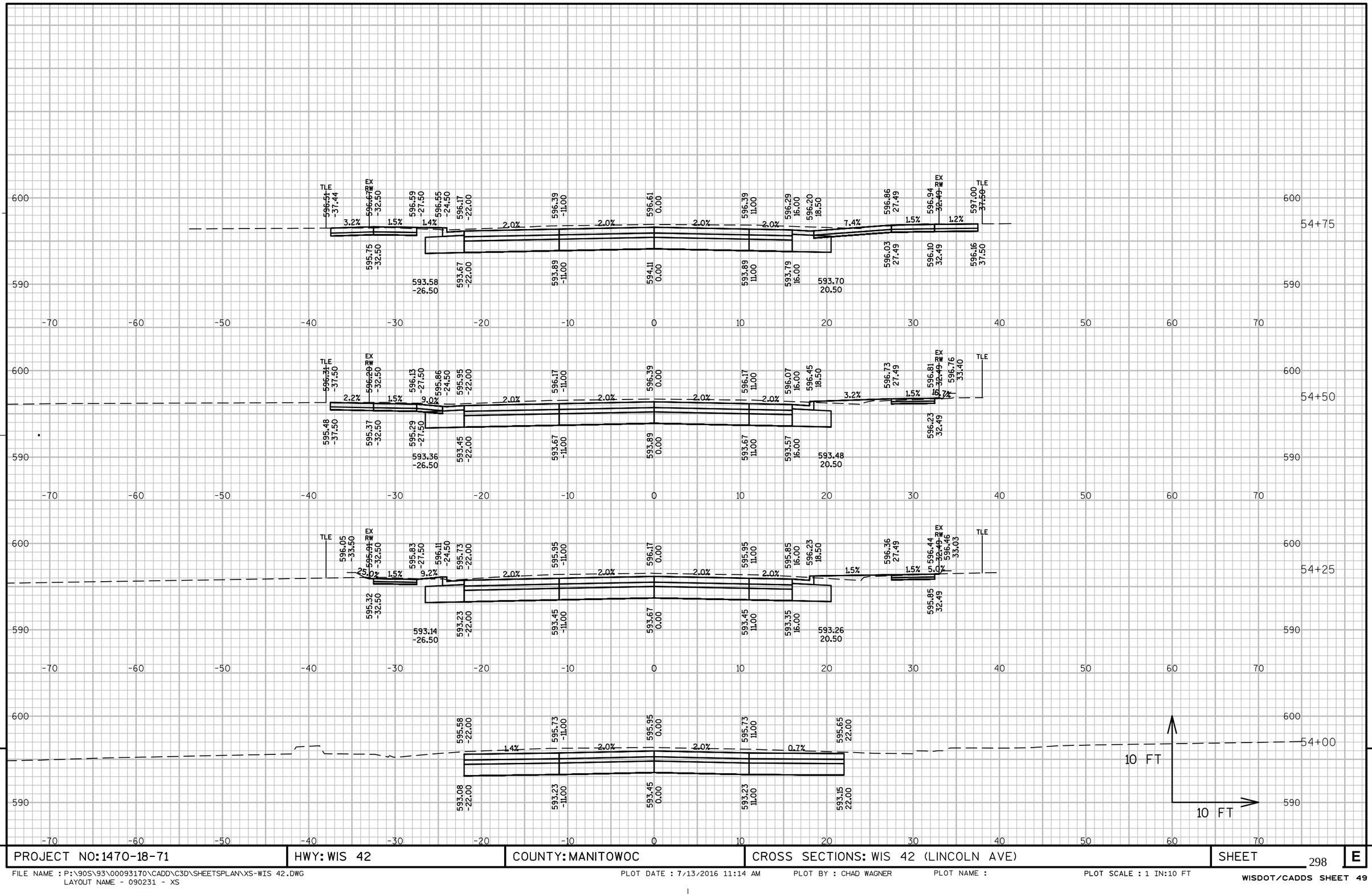


PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 297	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090230 - XS

PLOT DATE : 7/13/2016 11:13 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



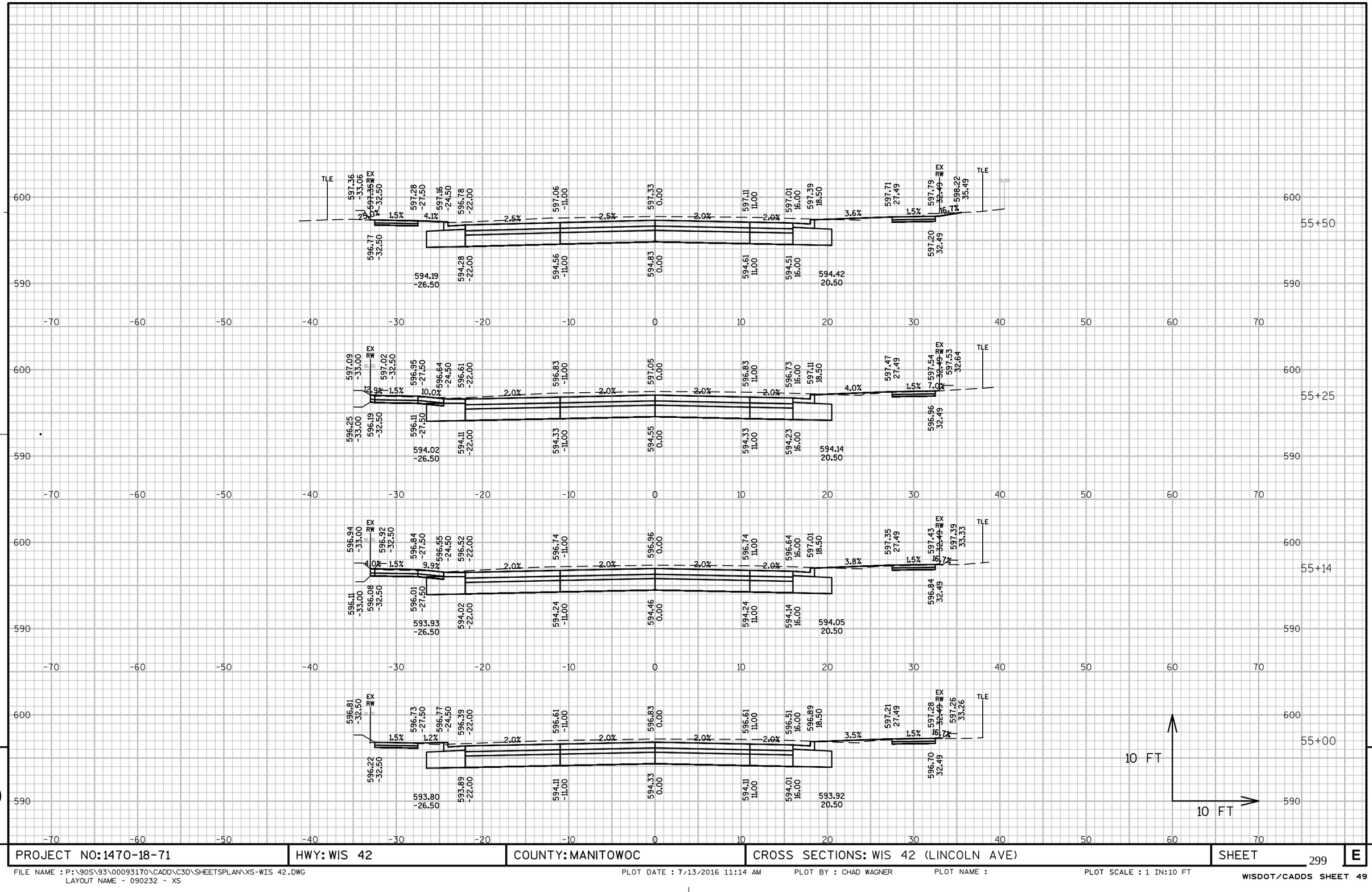
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 298	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090231 - XS

PLOT DATE : 7/13/2016 11:14 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

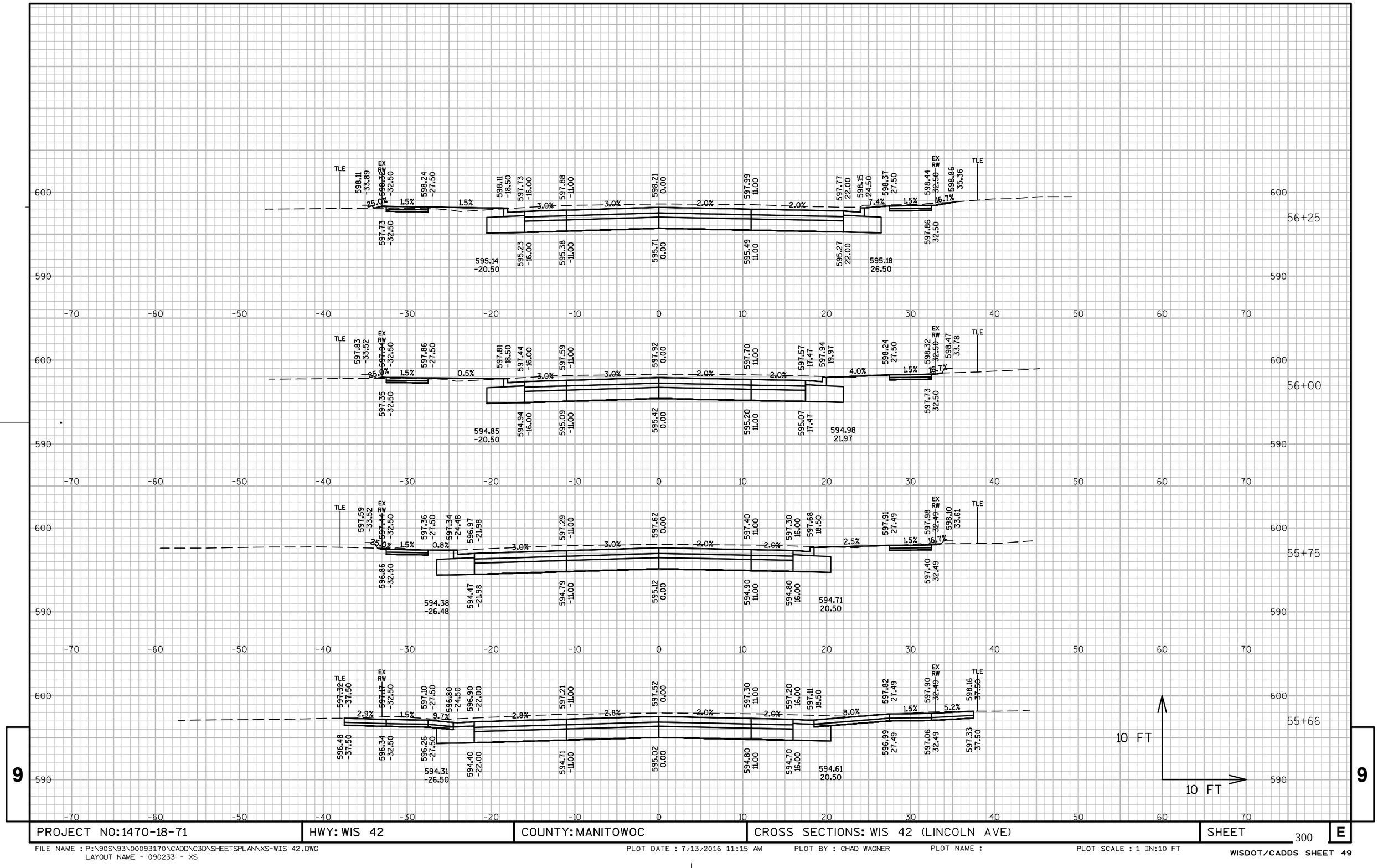


PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 299	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090232 - XS

PLOT DATE : 7/13/2016 11:14 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

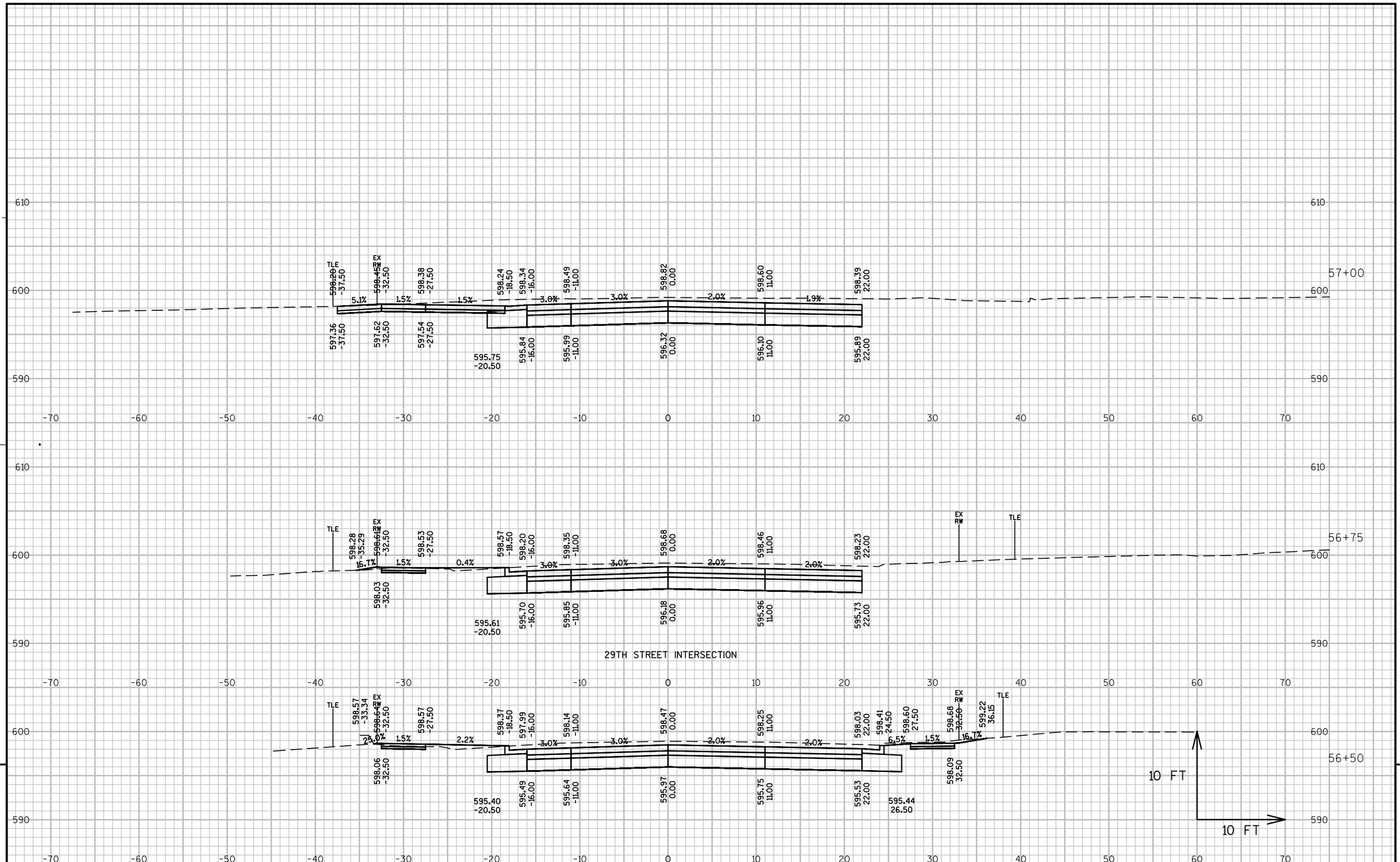


PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 300	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090233 - XS

PLOT DATE : 7/13/2016 11:15 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

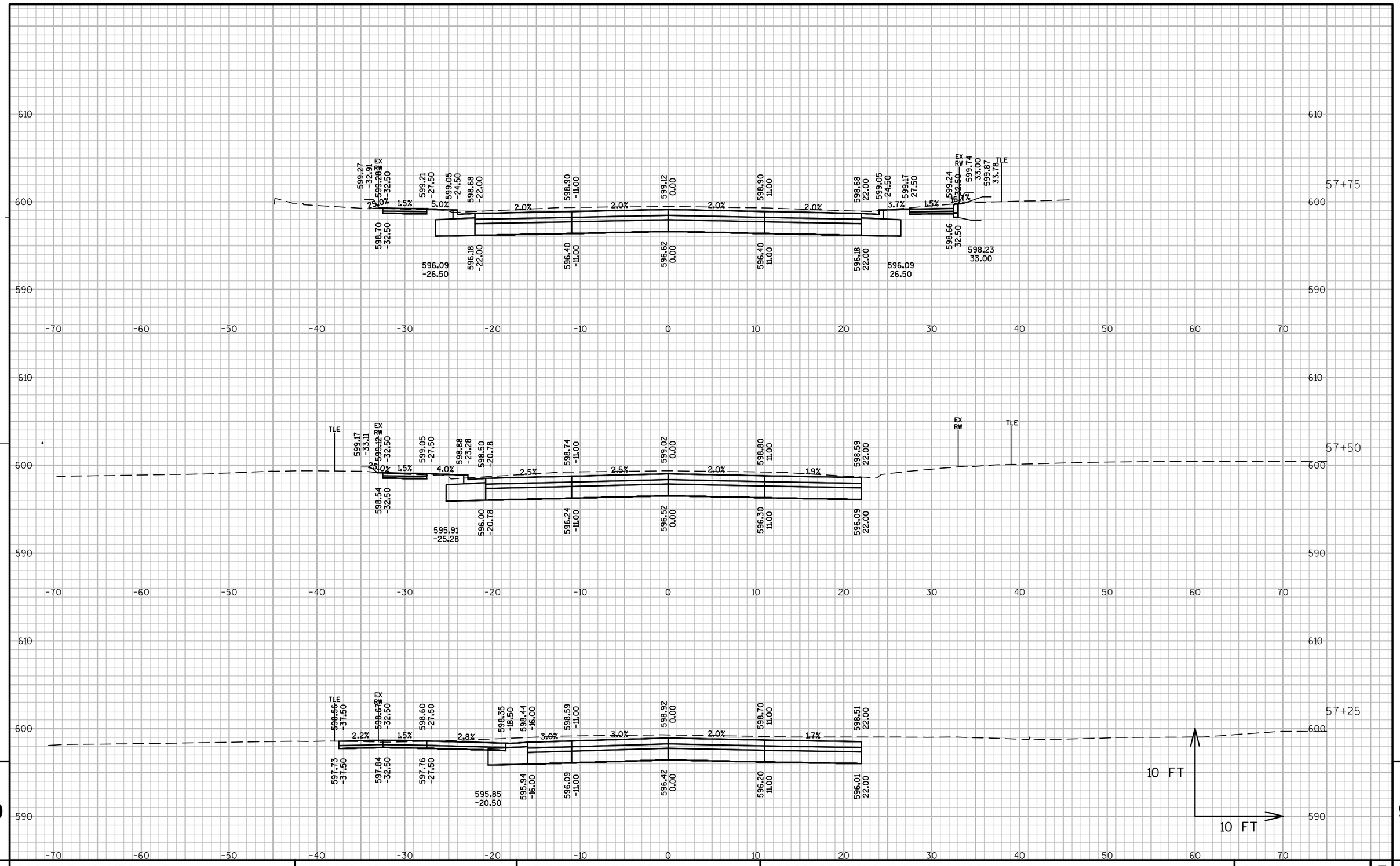


PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 301	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090234 - XS

PLOT DATE : 7/13/2016 11:16 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

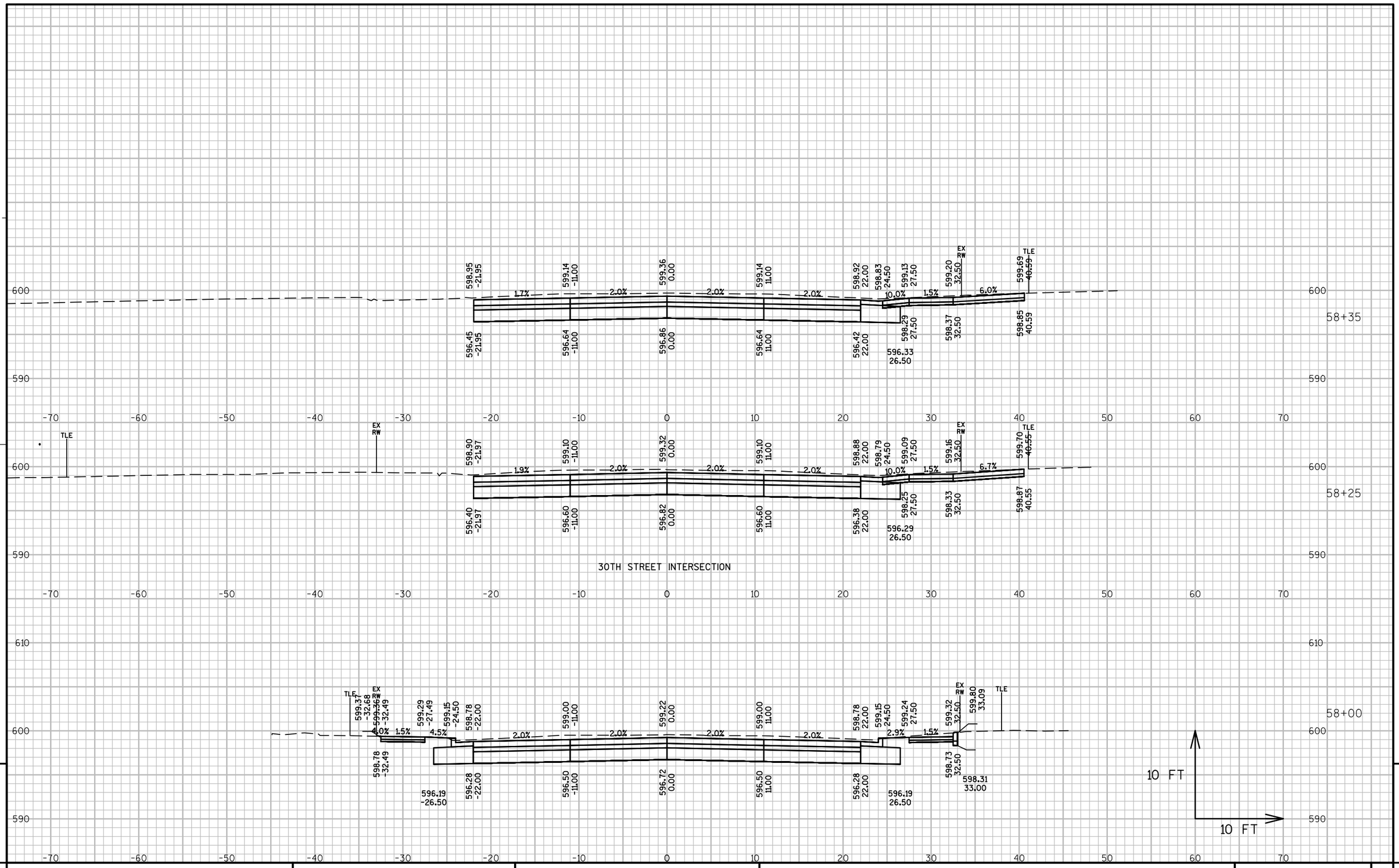
WISDOT/CADDS SHEET 49



PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 302	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090235 - XS

PLOT DATE : 7/13/2016 11:17 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT



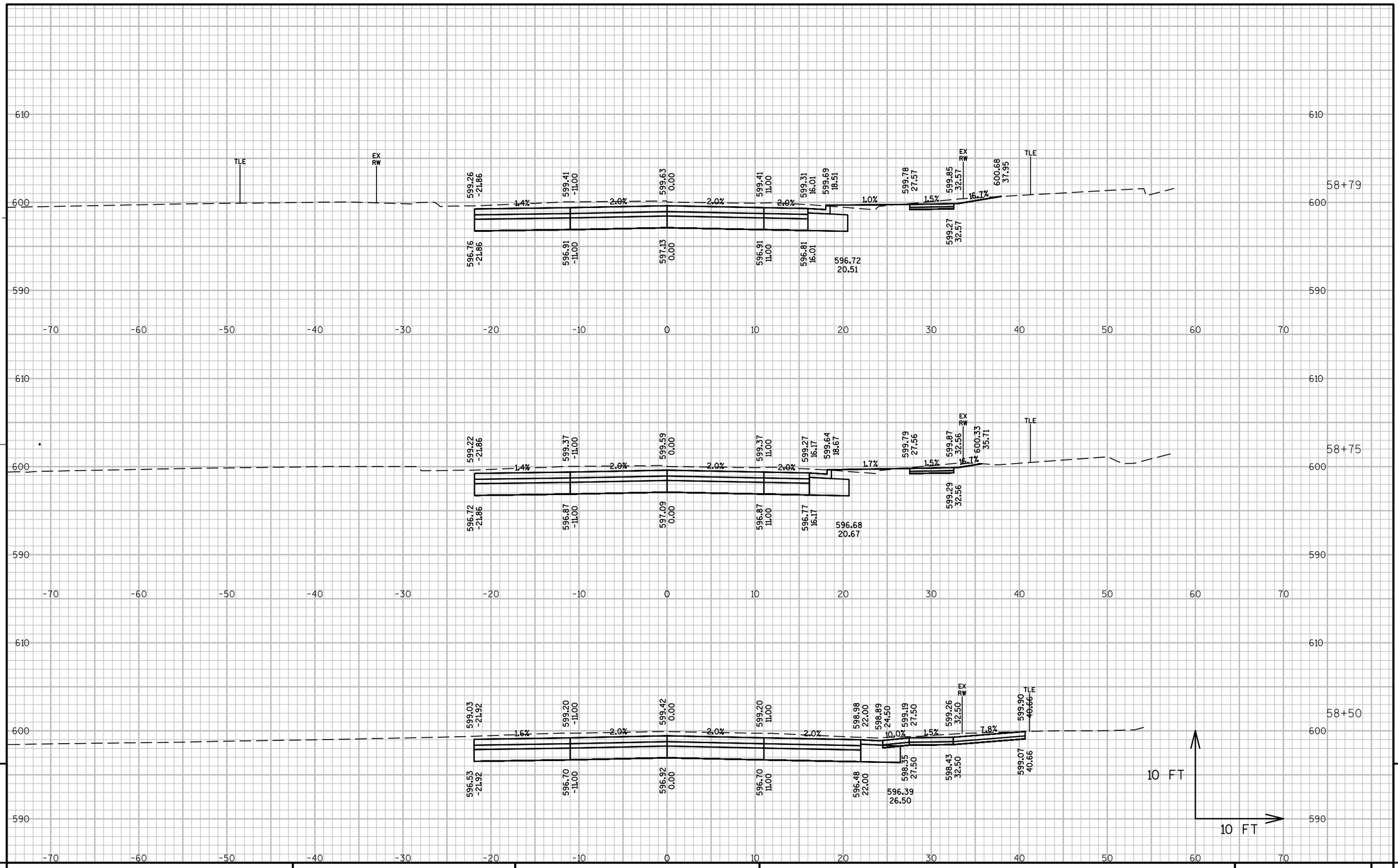
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 303	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090236 - XS

PLOT DATE : 7/13/2016 11:17 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

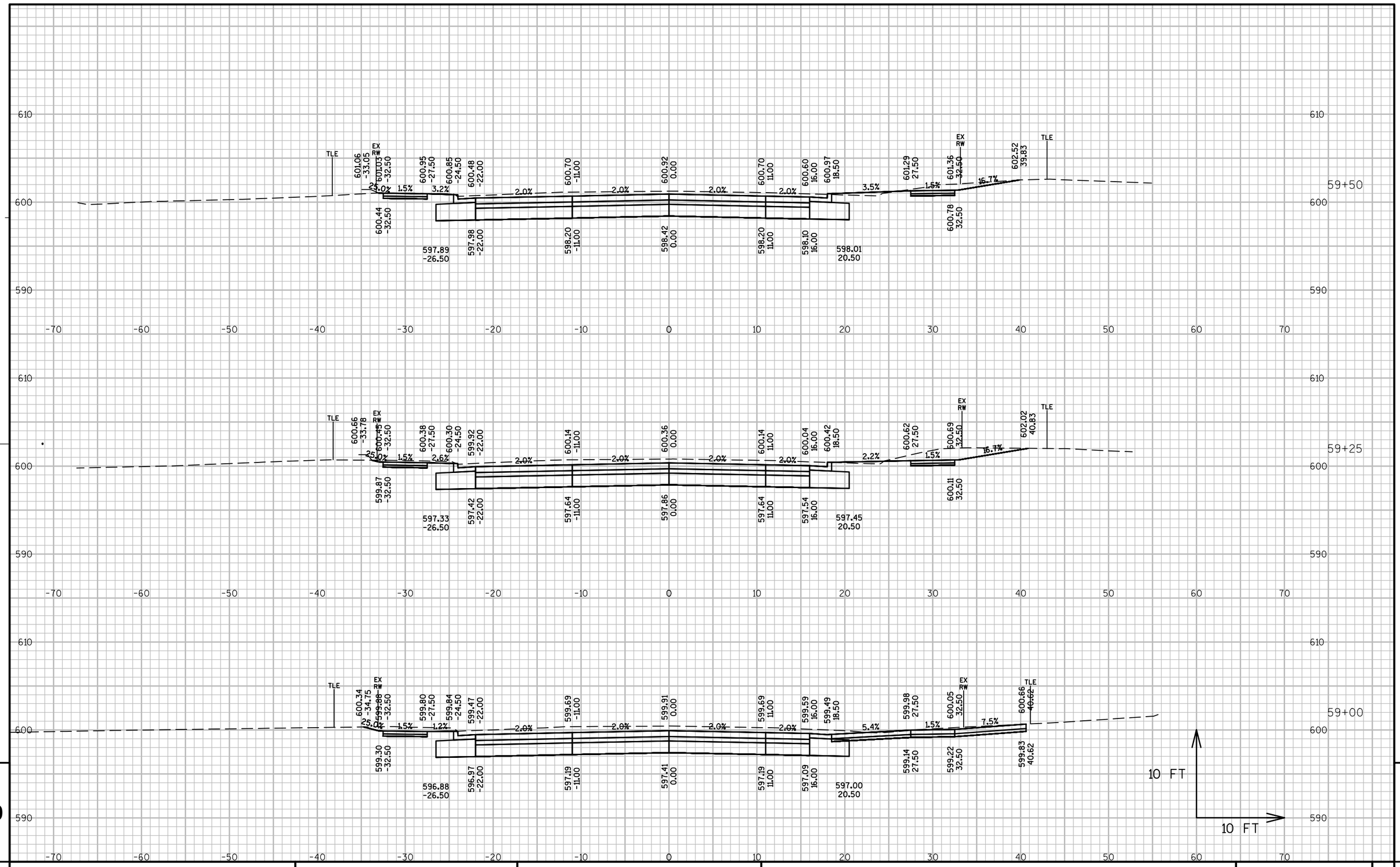


PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 304	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090237 - XS

PLOT DATE : 7/13/2016 11:18 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



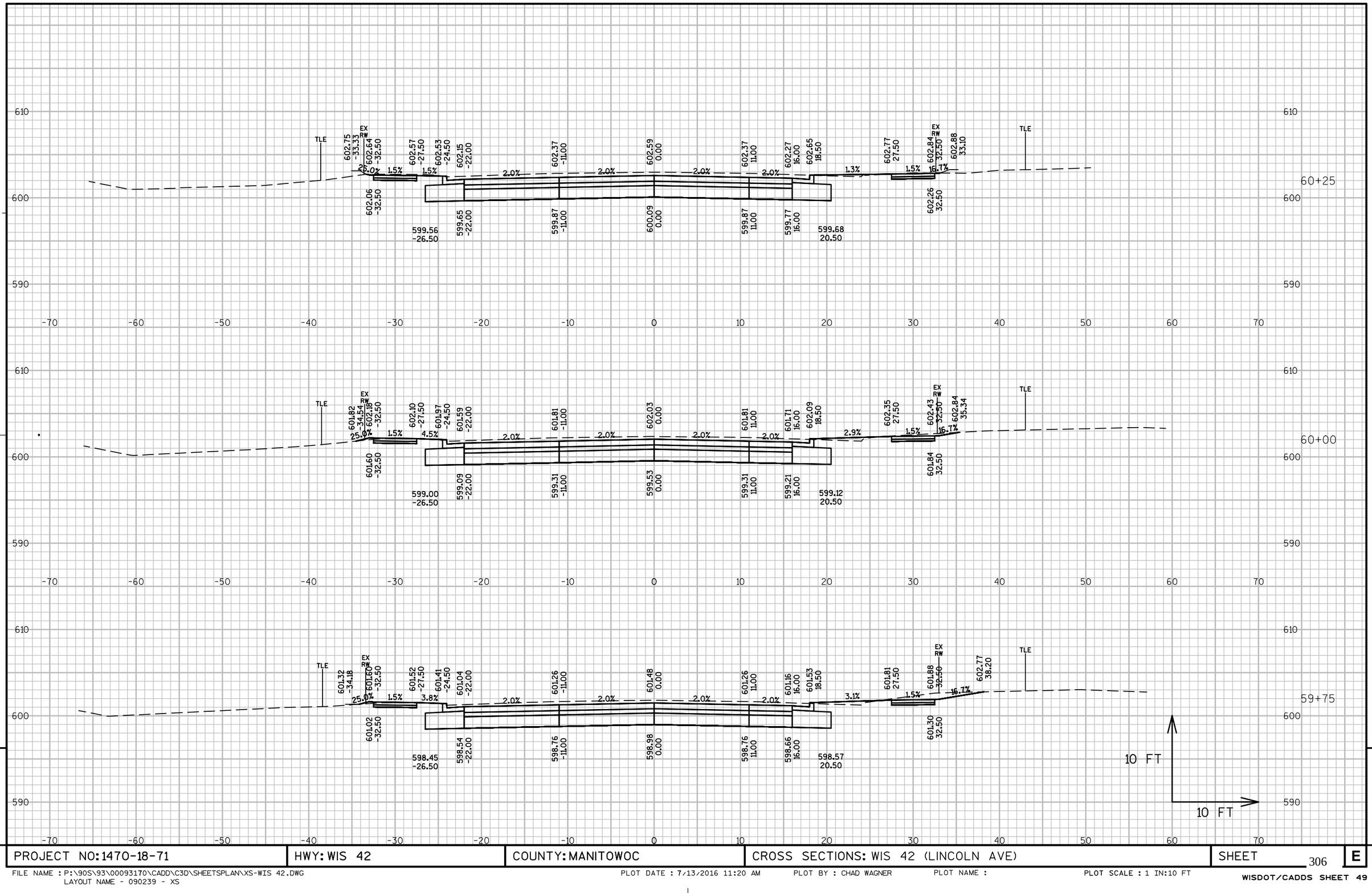
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 305	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090238 - XS

PLOT DATE : 7/13/2016 11:19 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT



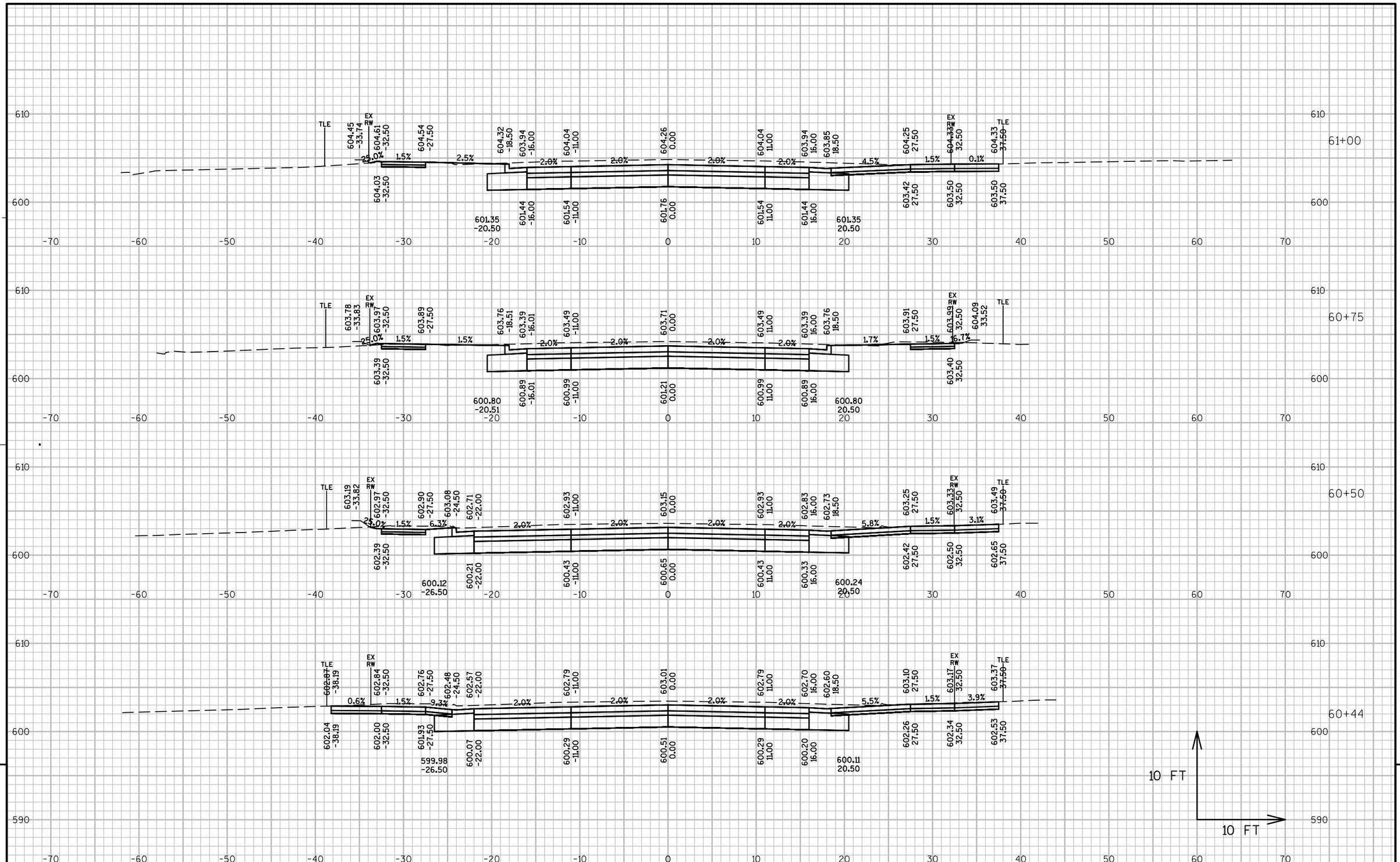
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 306	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090239 - XS

PLOT DATE : 7/13/2016 11:20 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

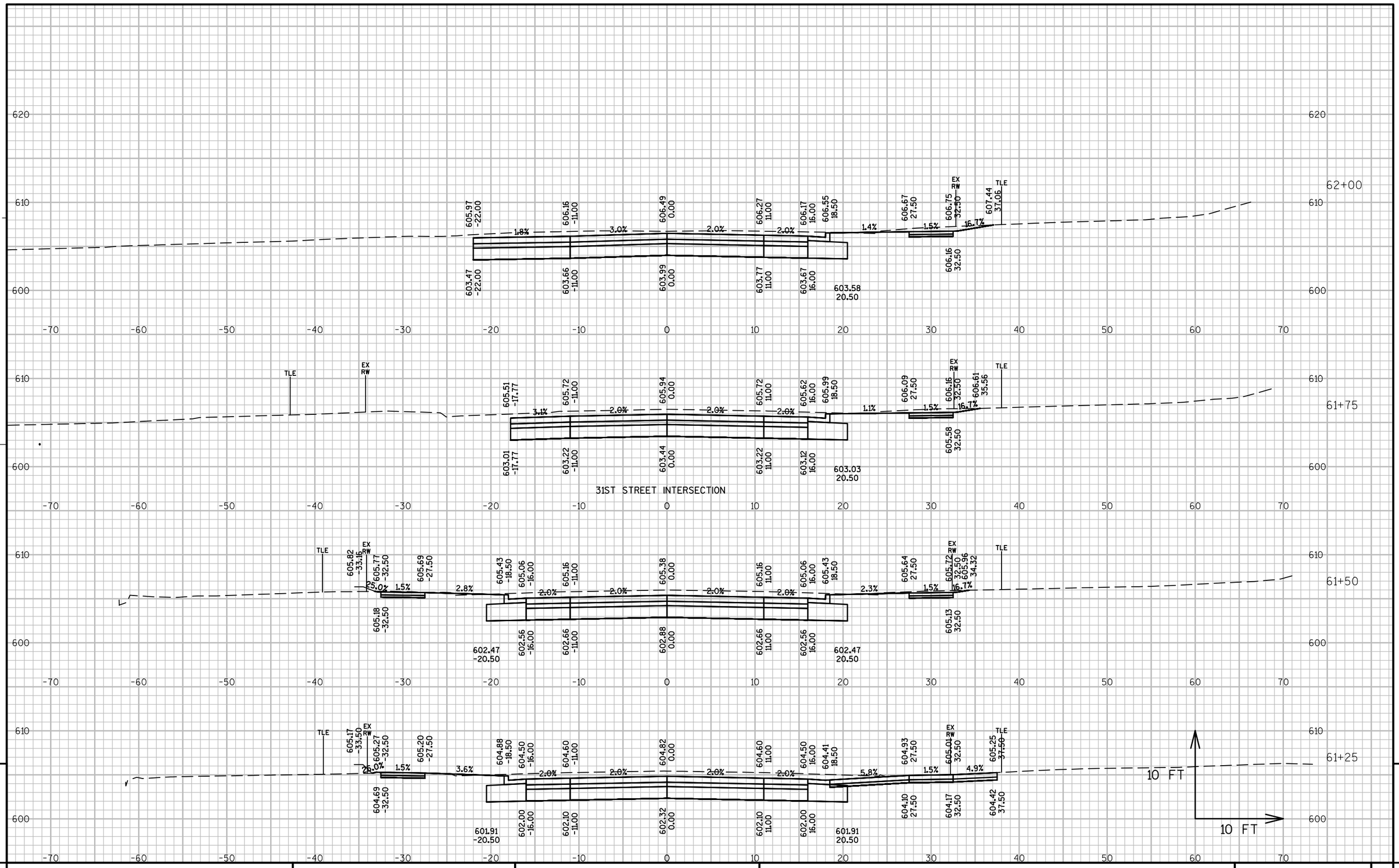
WISDOT/CADDS SHEET 49



PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 307	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090240 - XS

PLOT DATE : 7/13/2016 11:21 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT



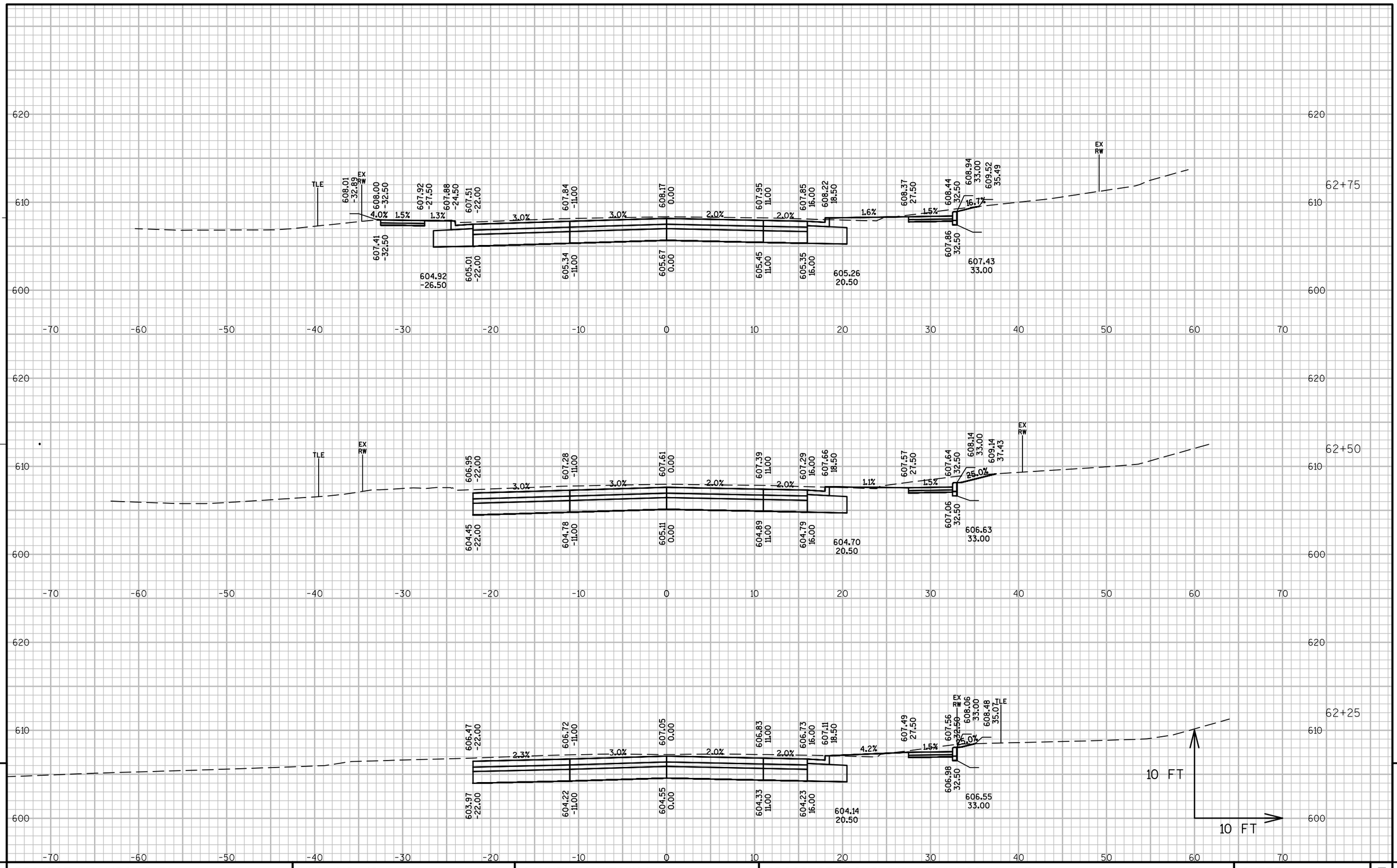
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 308	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090241 - XS

PLOT DATE : 7/13/2016 11:21 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

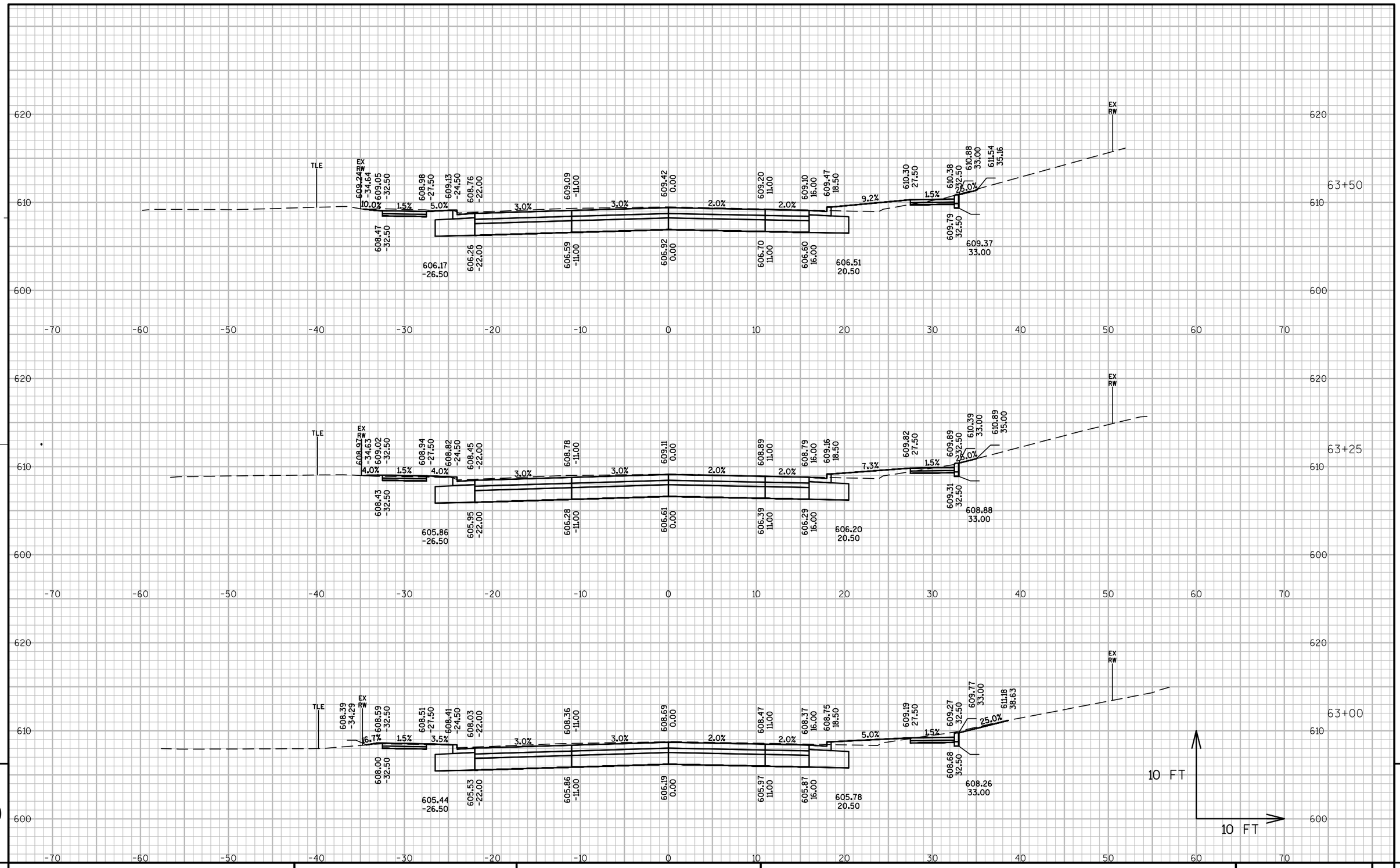


PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 309	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090242 - XS

PLOT DATE : 7/13/2016 11:22 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

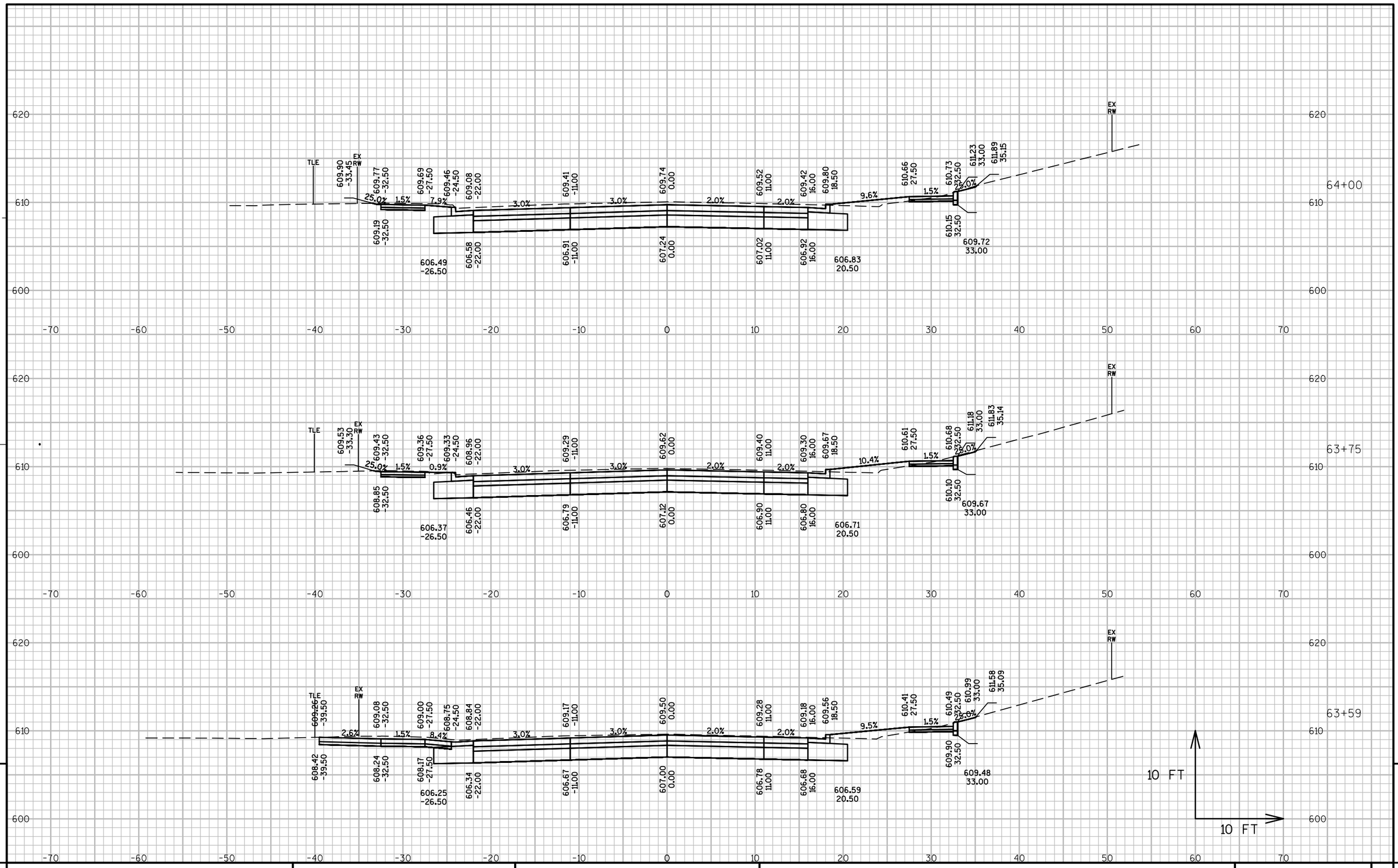


PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 310	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090243 - XS

PLOT DATE : 7/13/2016 11:23 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

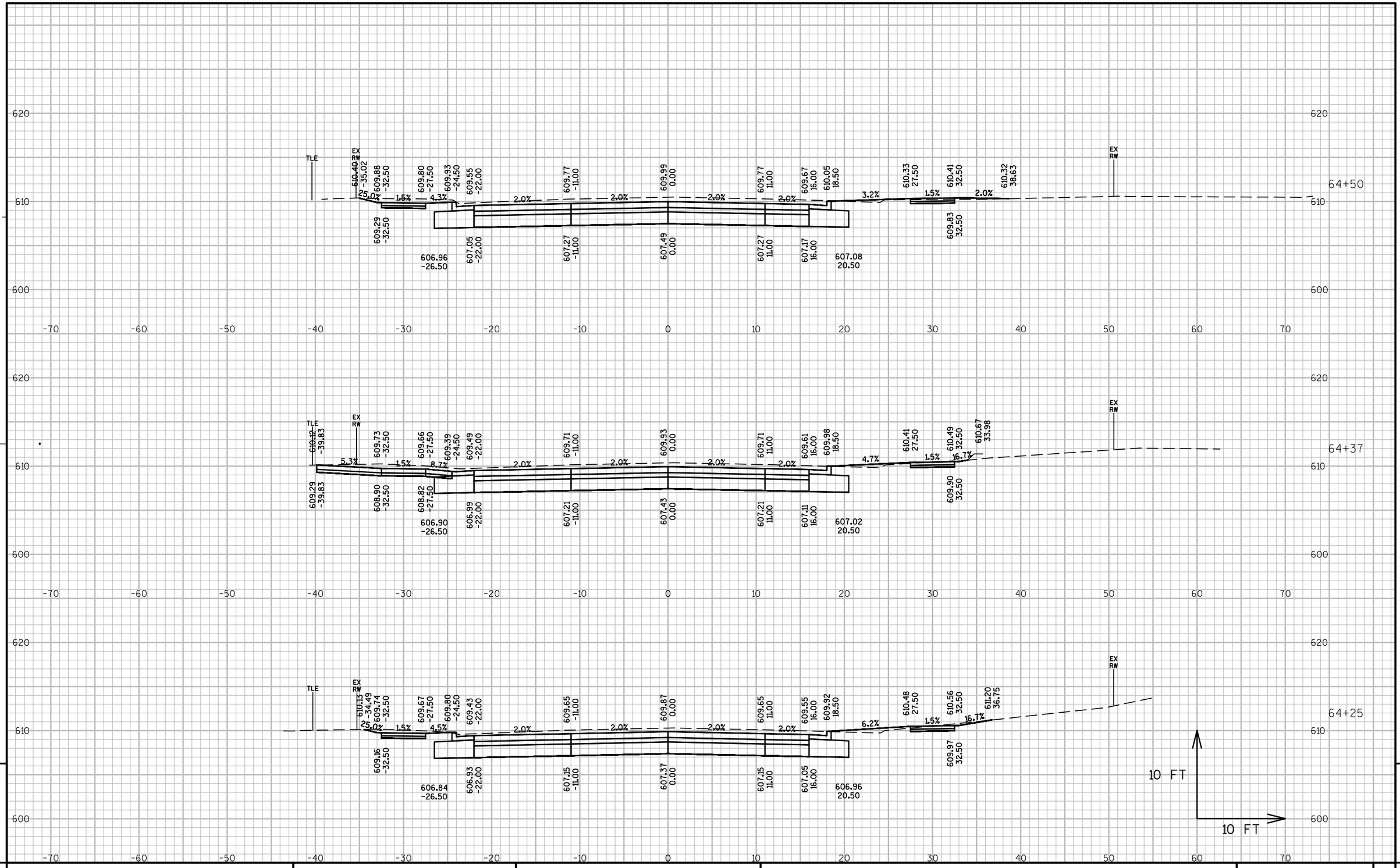


PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 311	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090244 - XS

PLOT DATE : 7/13/2016 11:24 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

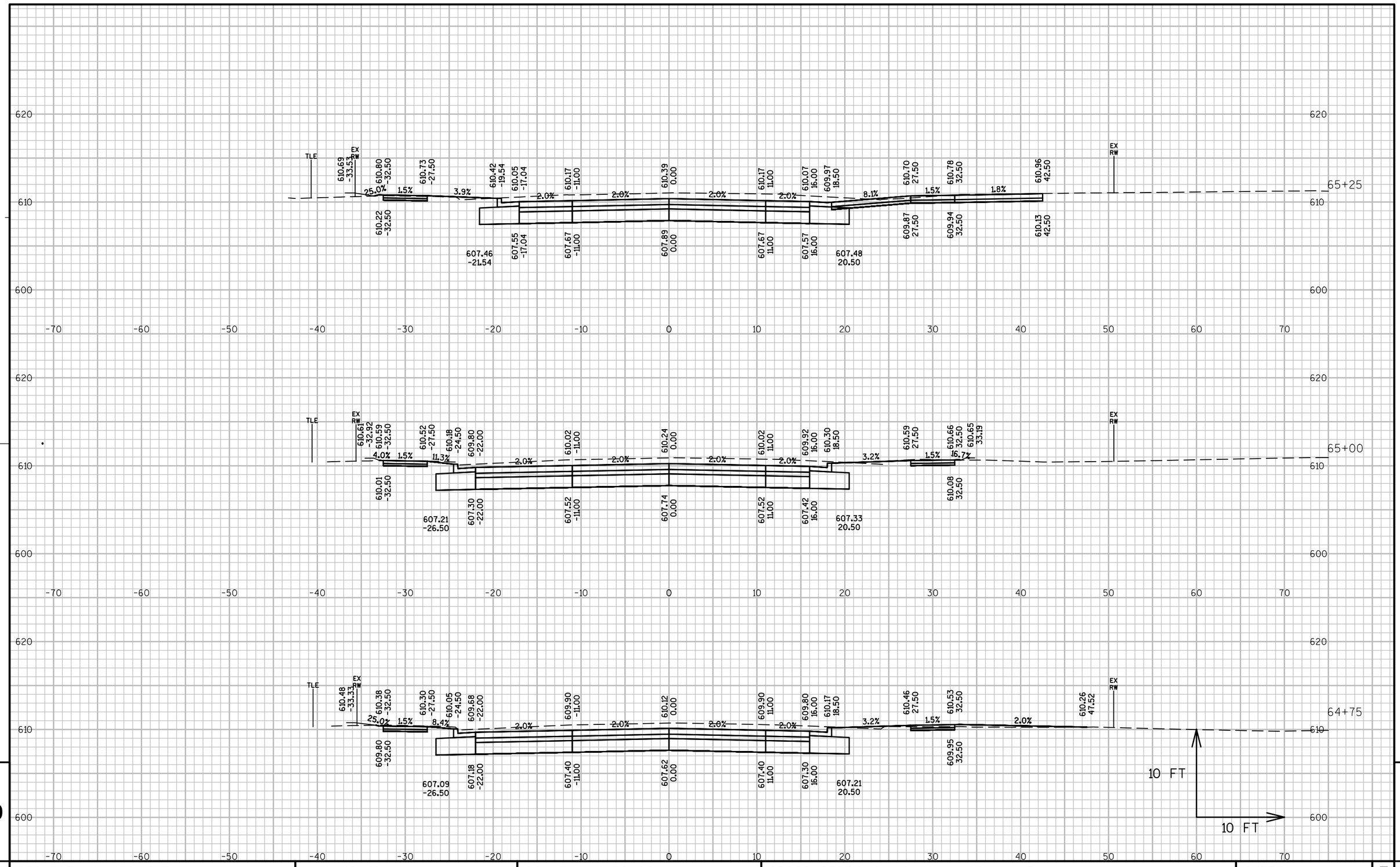


PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 312	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090245 - XS

PLOT DATE : 7/13/2016 11:25 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



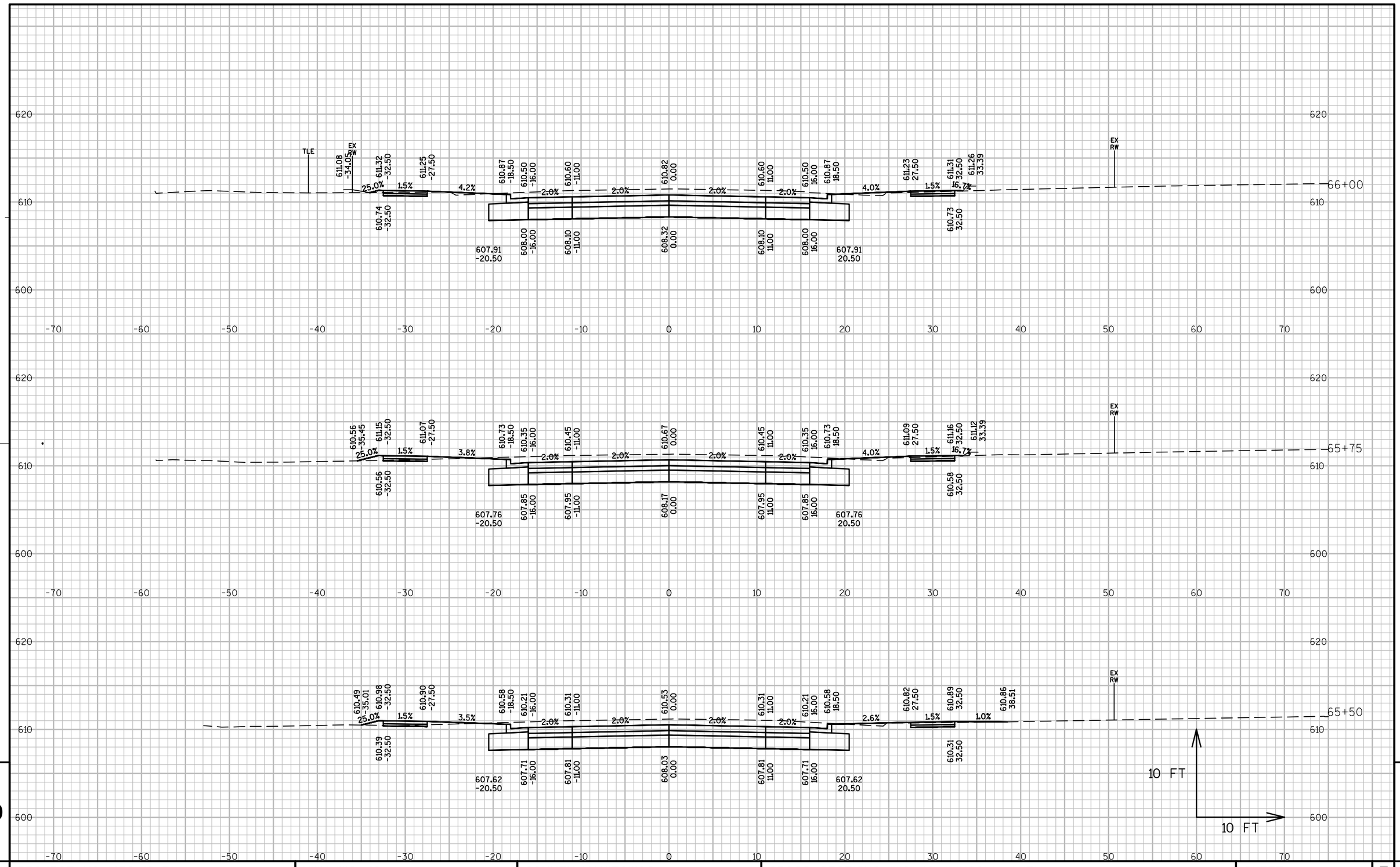
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 313	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090246 - XS

PLOT DATE : 7/13/2016 11:25 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



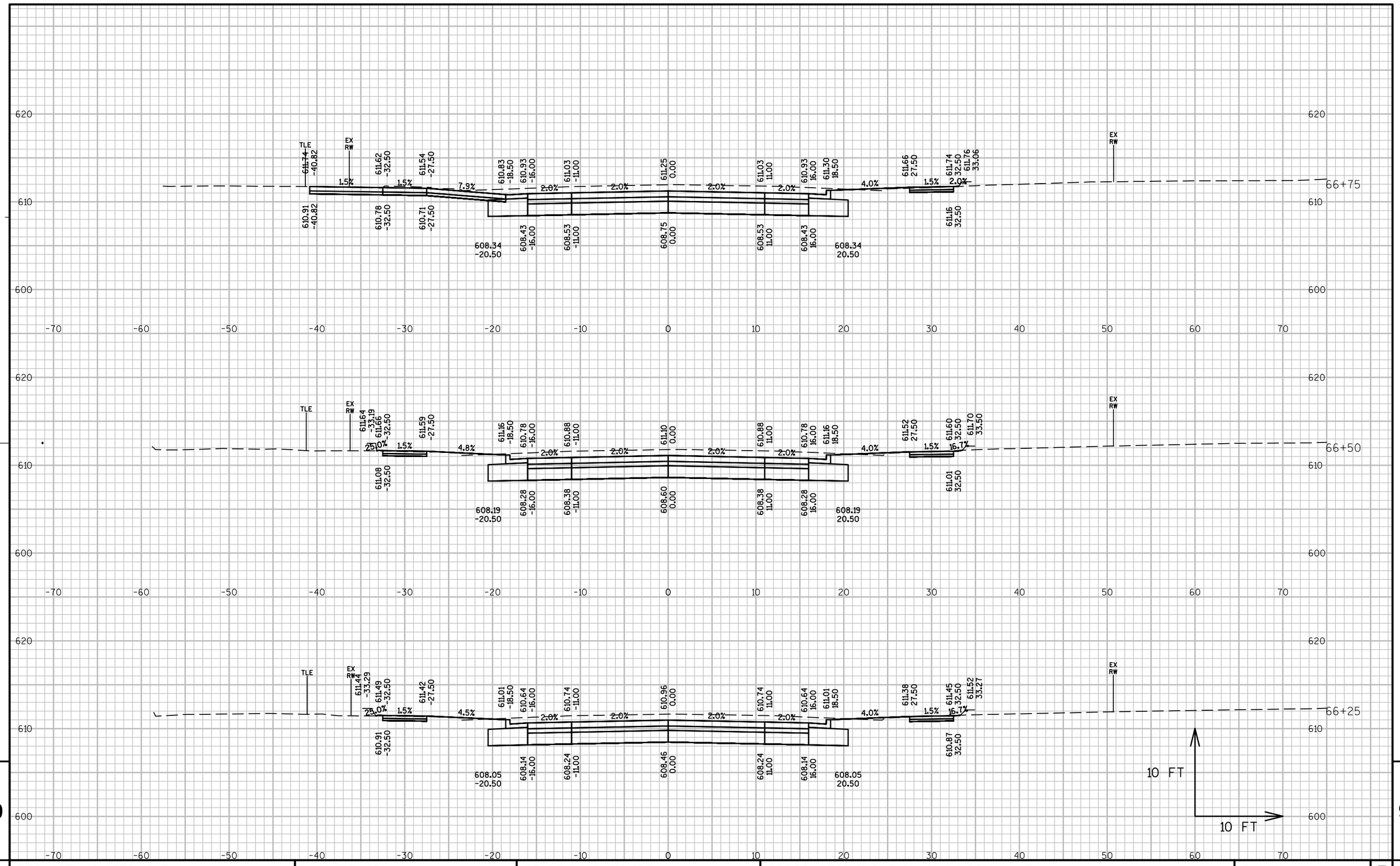
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 314	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090247 - XS

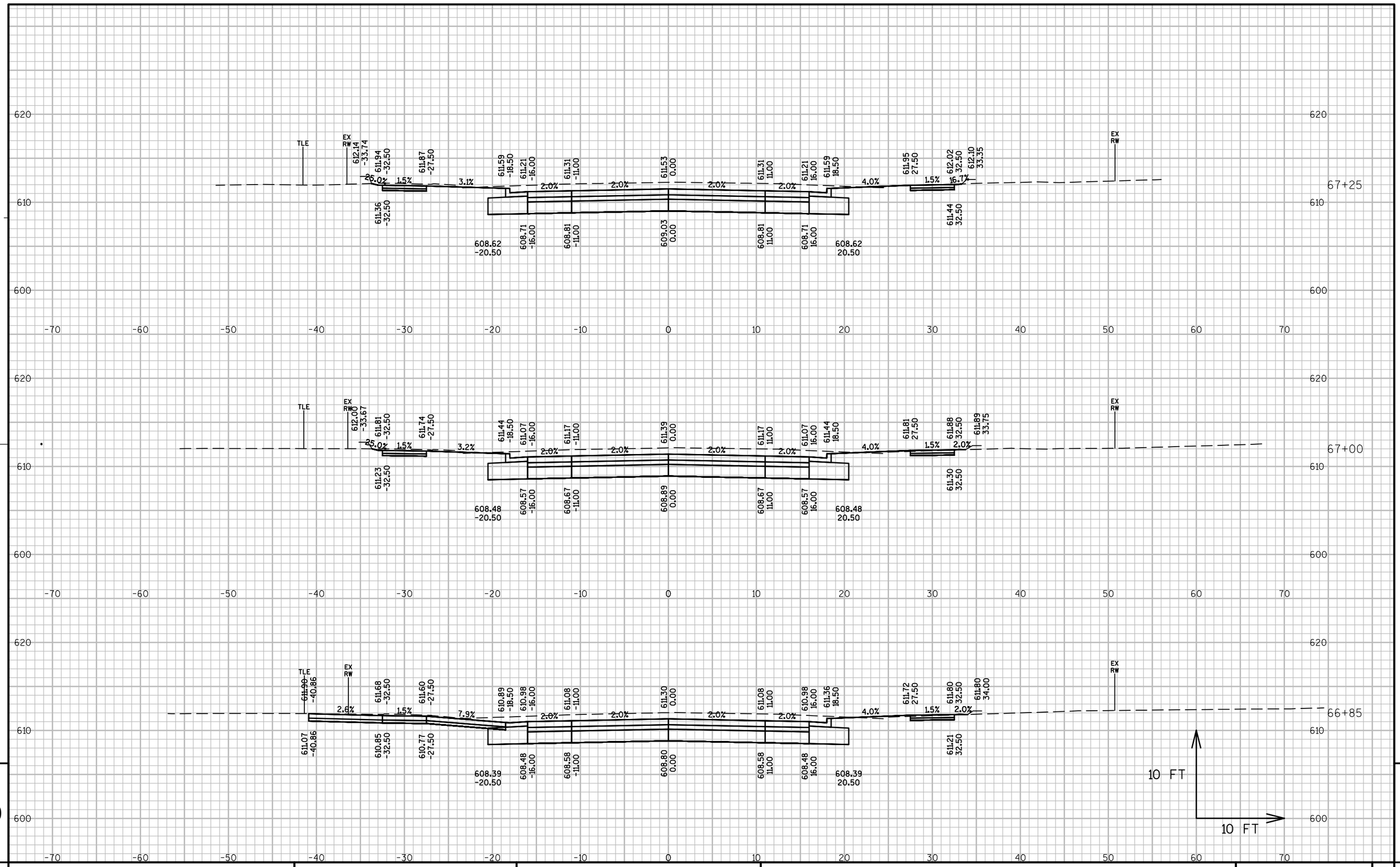
PLOT DATE : 7/13/2016 11:26 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT



PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 315	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090248 - XS

PLOT DATE : 7/13/2016 11:27 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

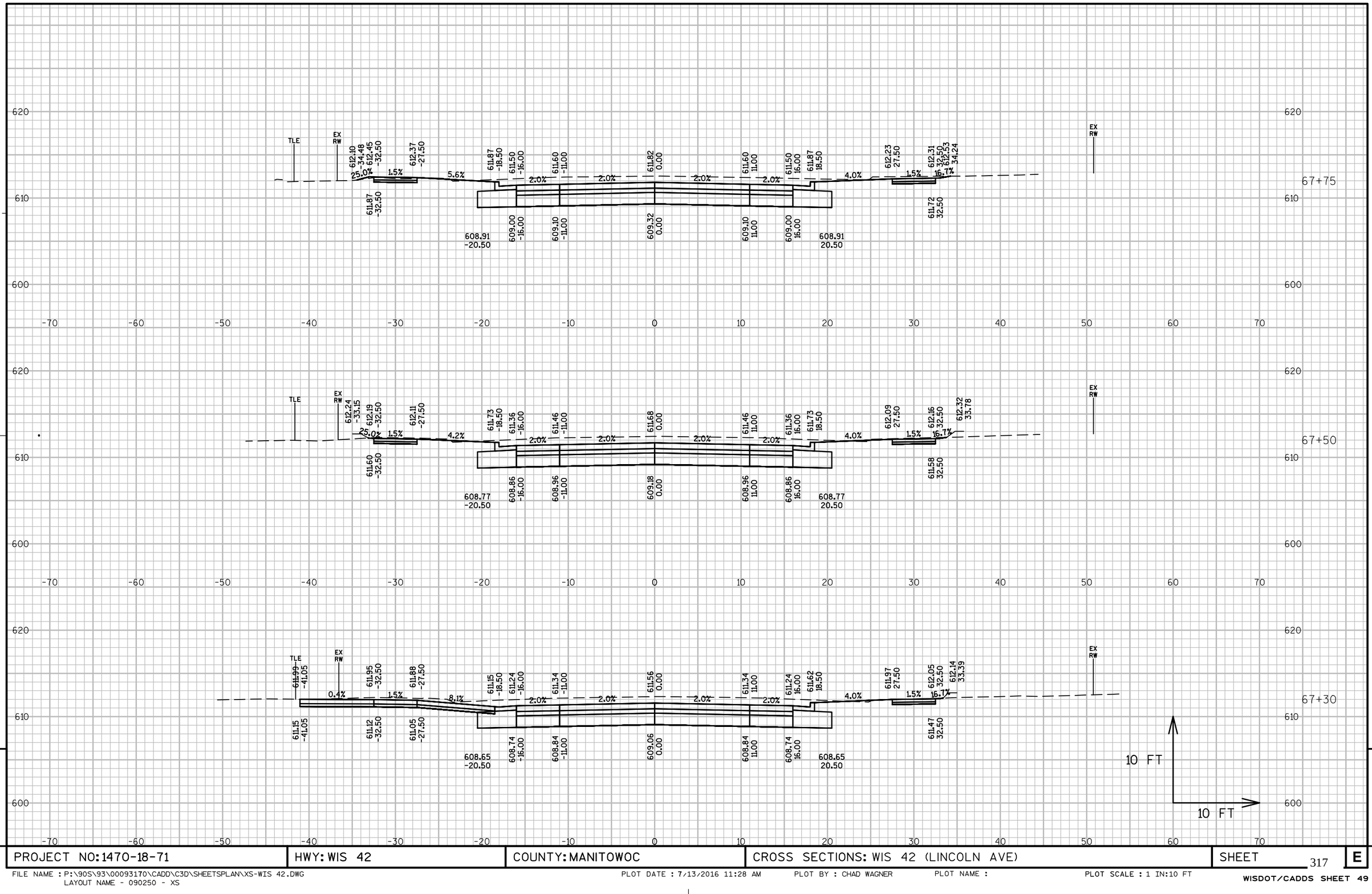


PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 316	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090249 - XS

PLOT DATE : 7/13/2016 11:27 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

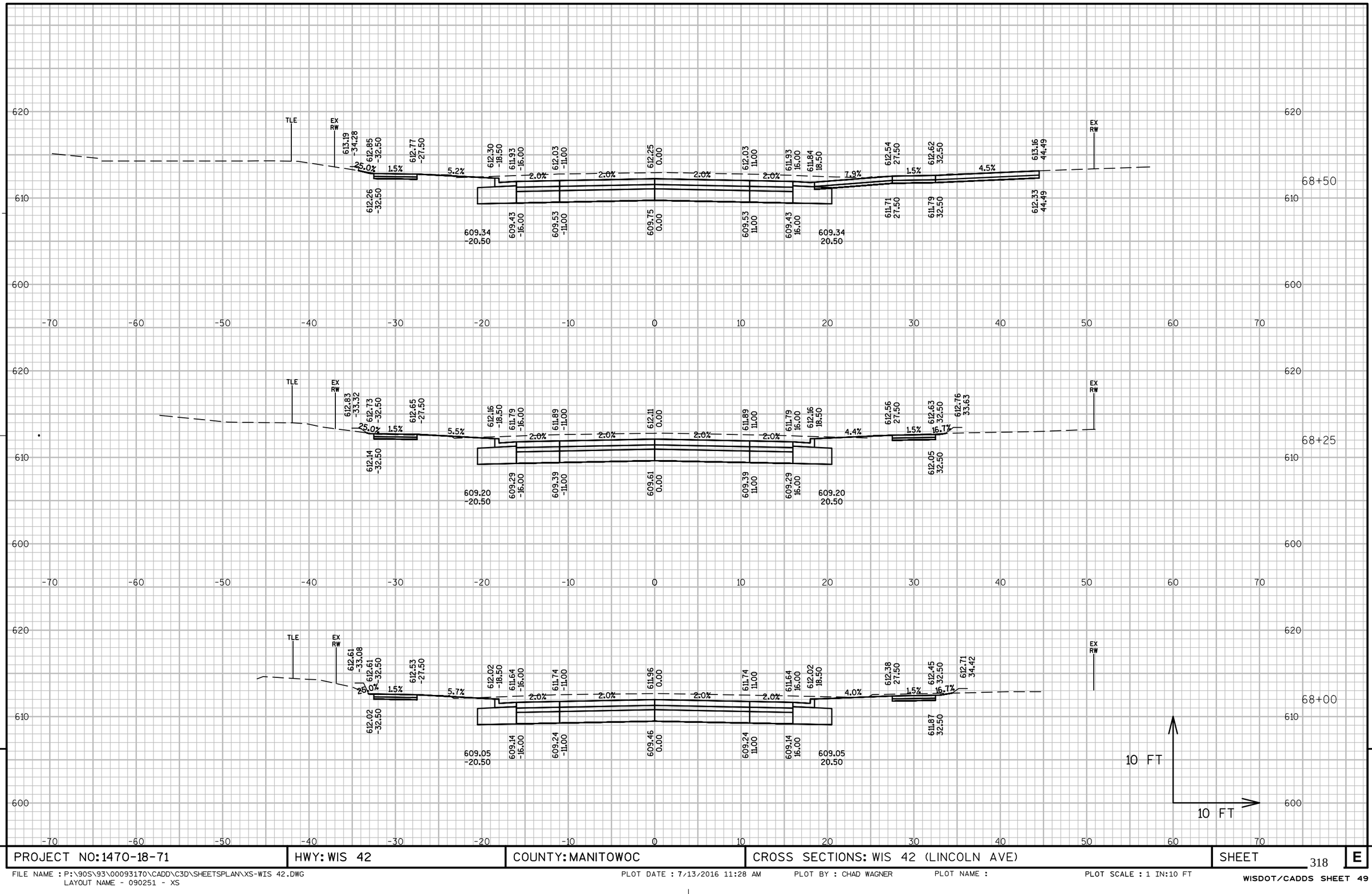


PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 317	E

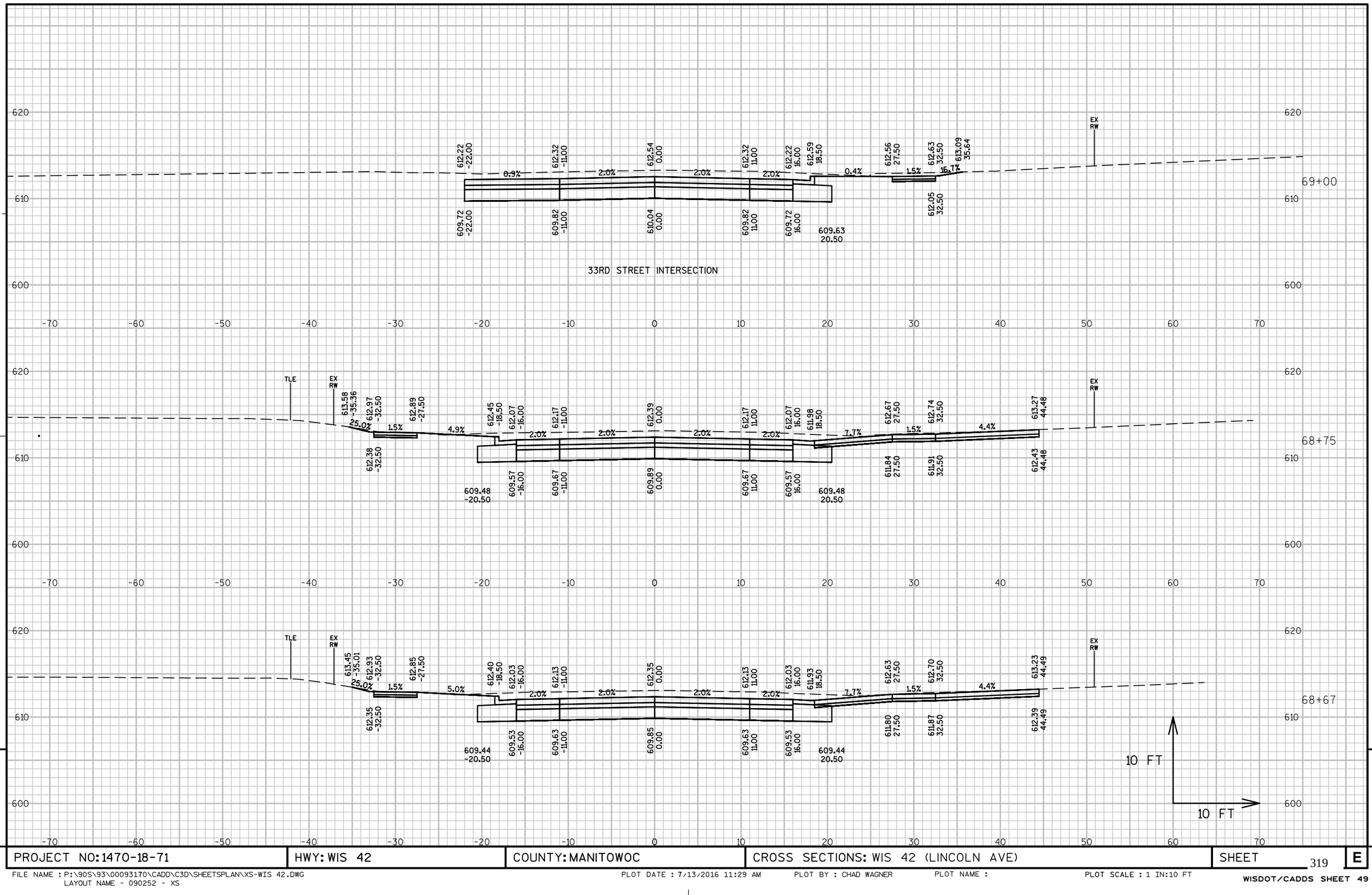
FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090250 - XS

PLOT DATE : 7/13/2016 11:28 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 318	E



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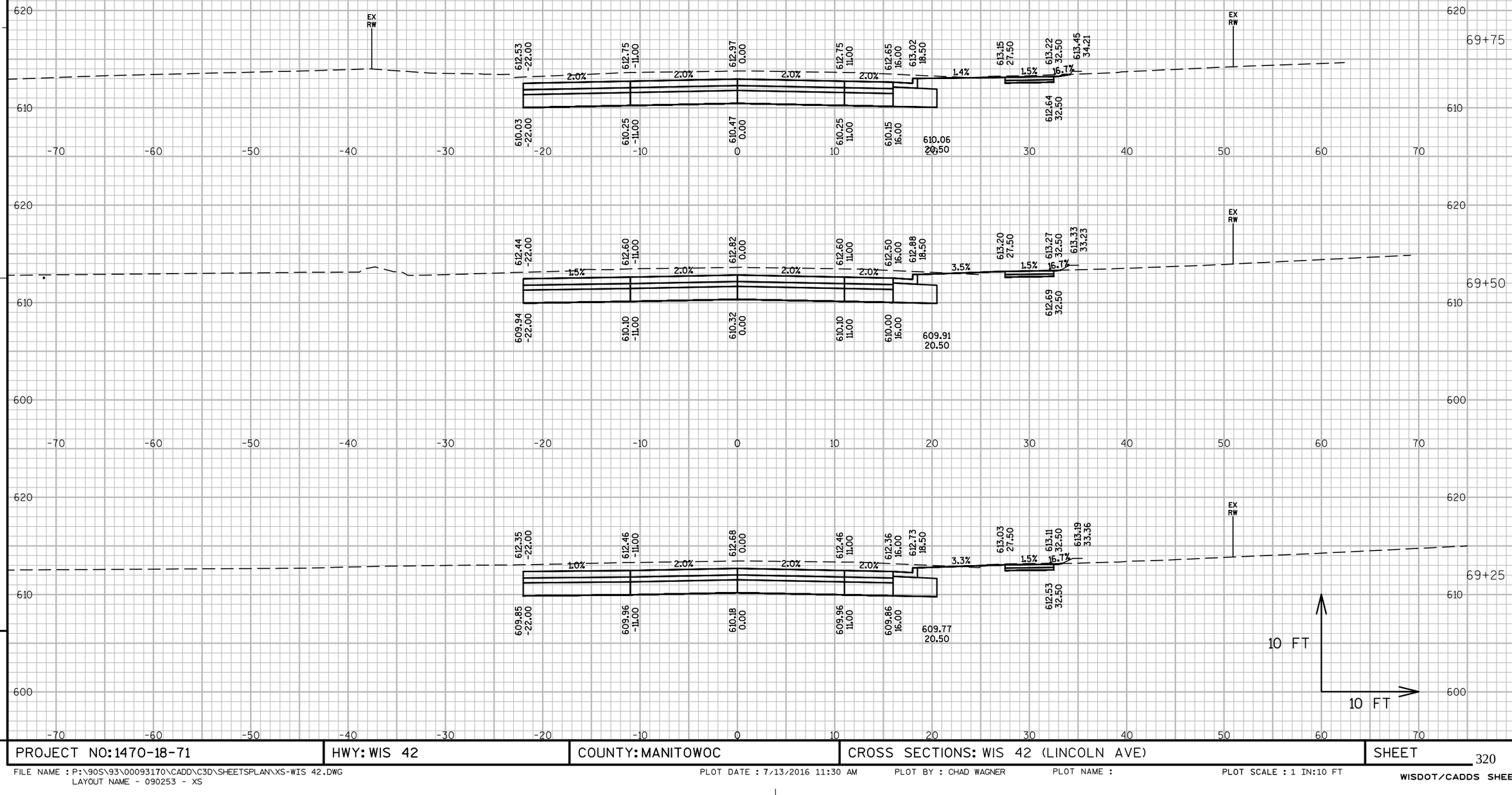
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 319	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090252 - XS

PLOT DATE : 7/13/2016 11:29 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

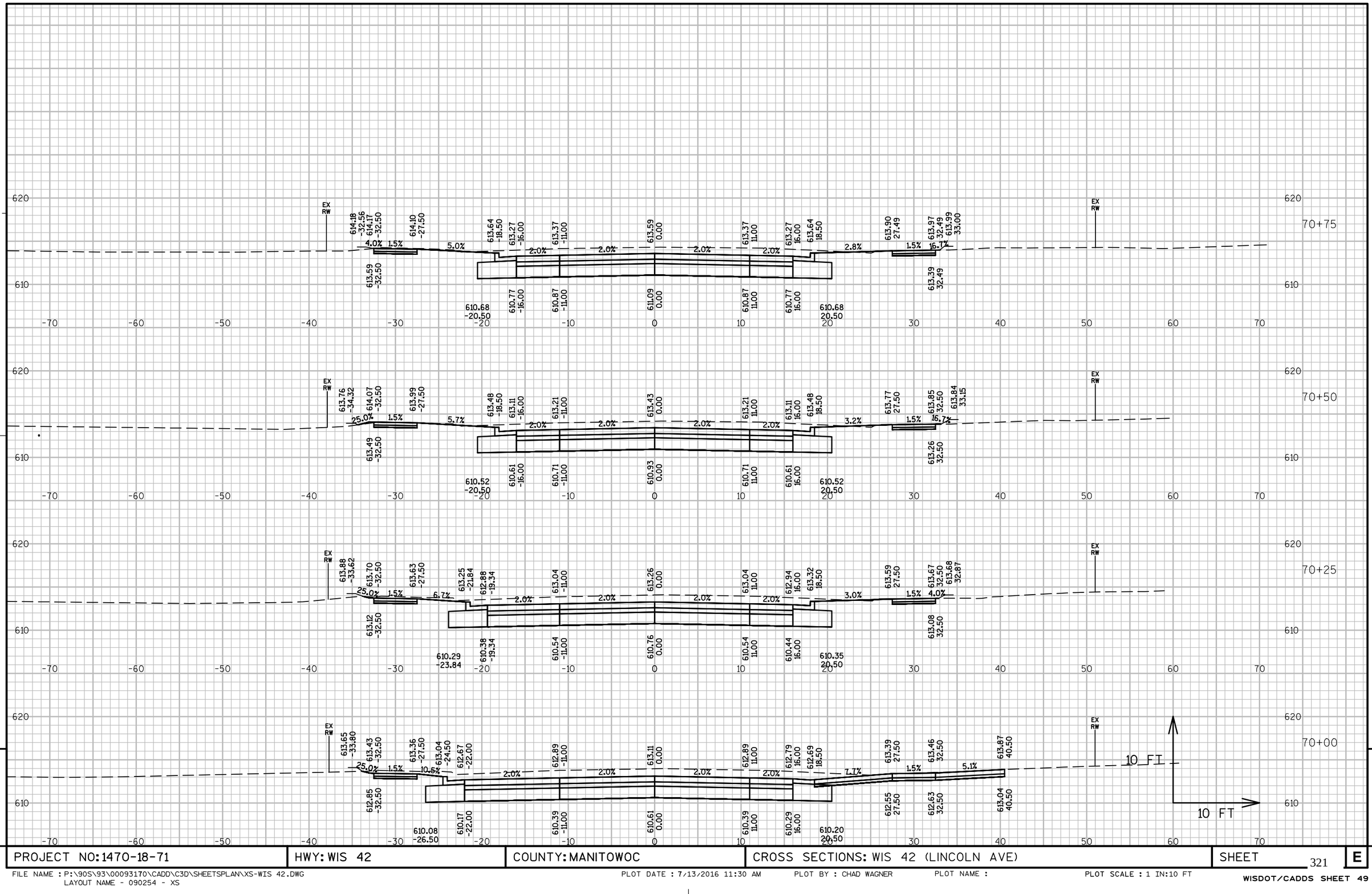
WISDOT/CADDS SHEET 49



PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 320	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090253 - XS

PLOT DATE : 7/13/2016 11:30 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT



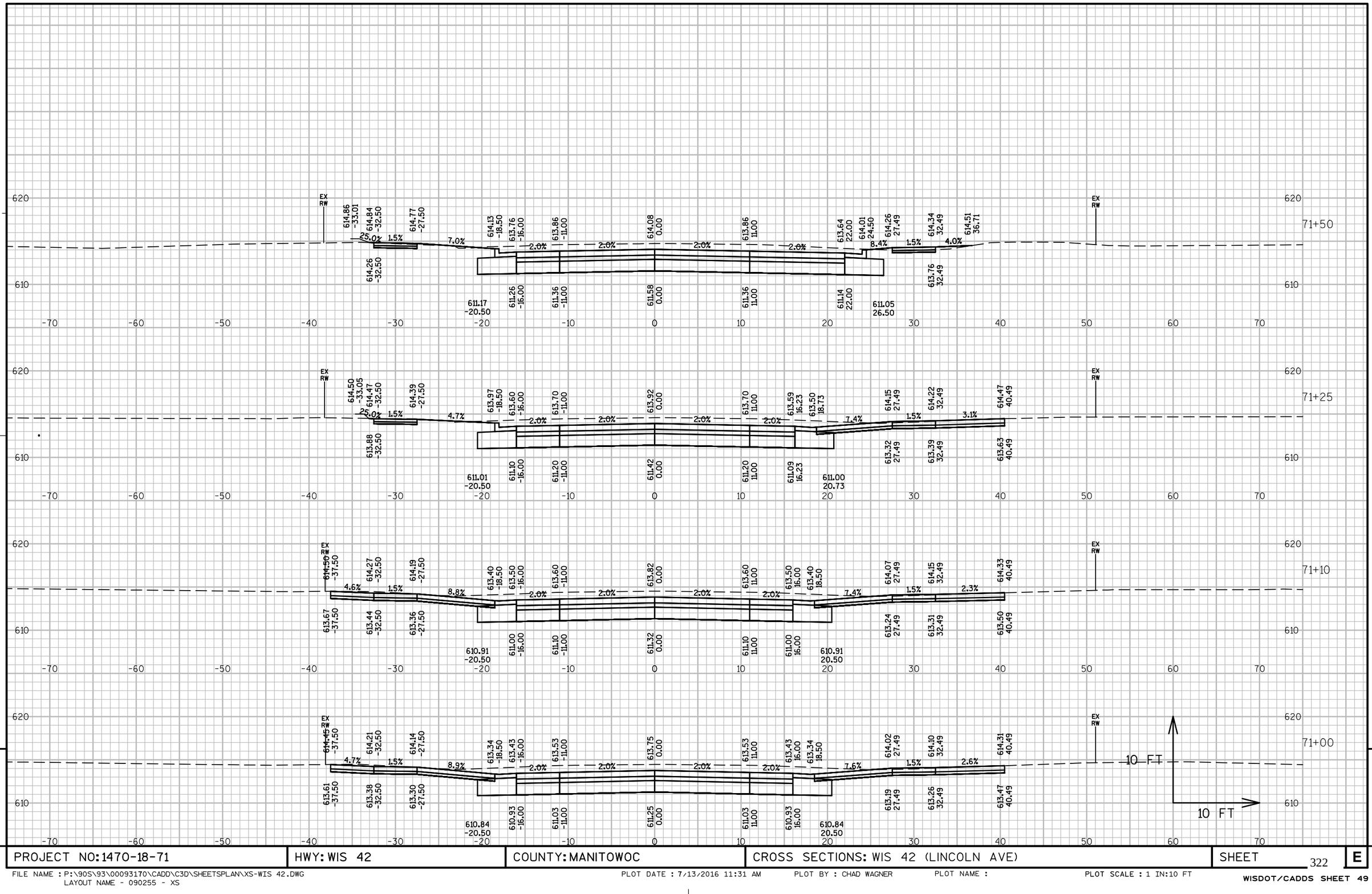
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 321	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090254 - XS

PLOT DATE : 7/13/2016 11:30 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT



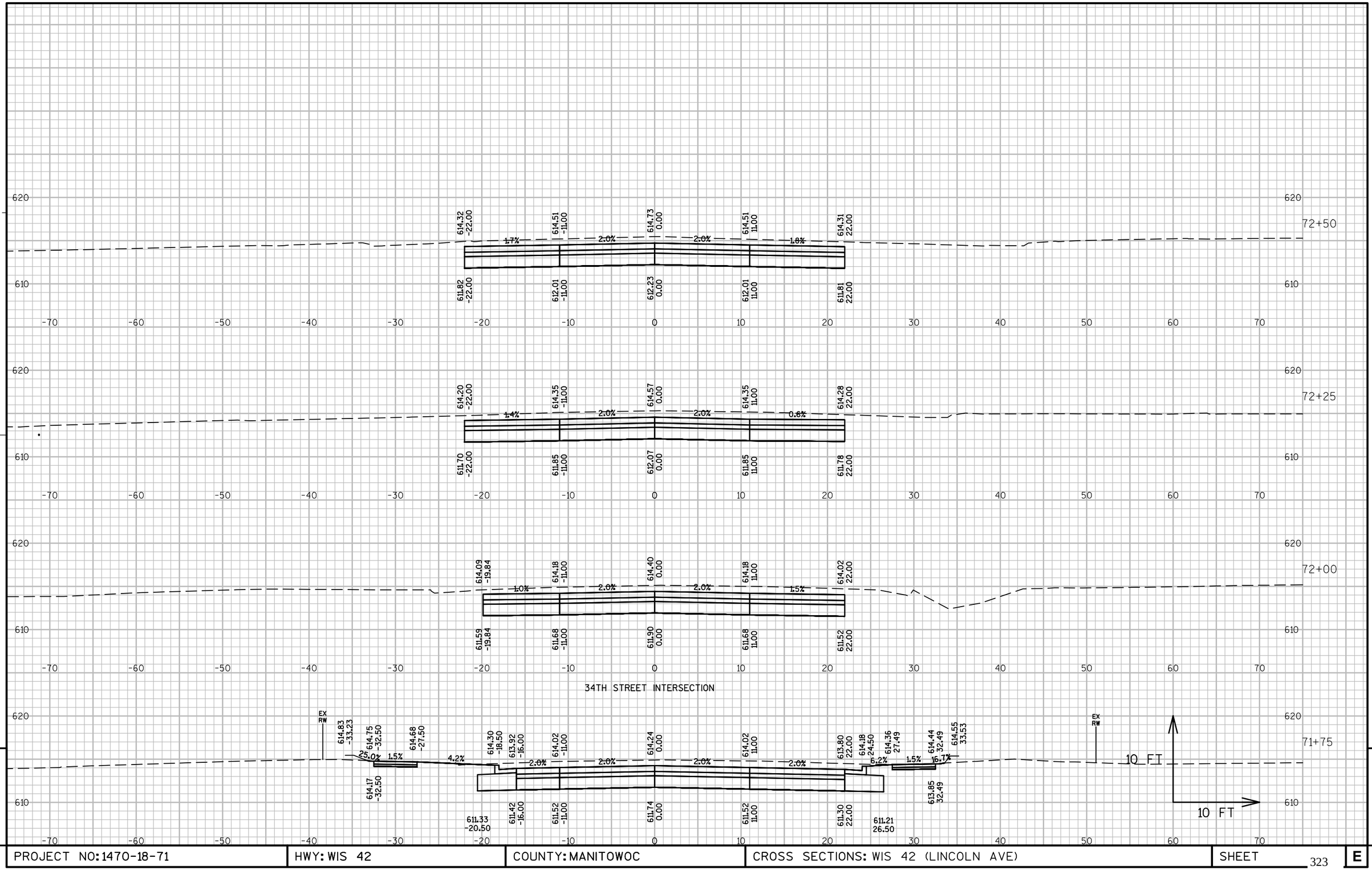
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 322	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090255 - XS

PLOT DATE : 7/13/2016 11:31 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT



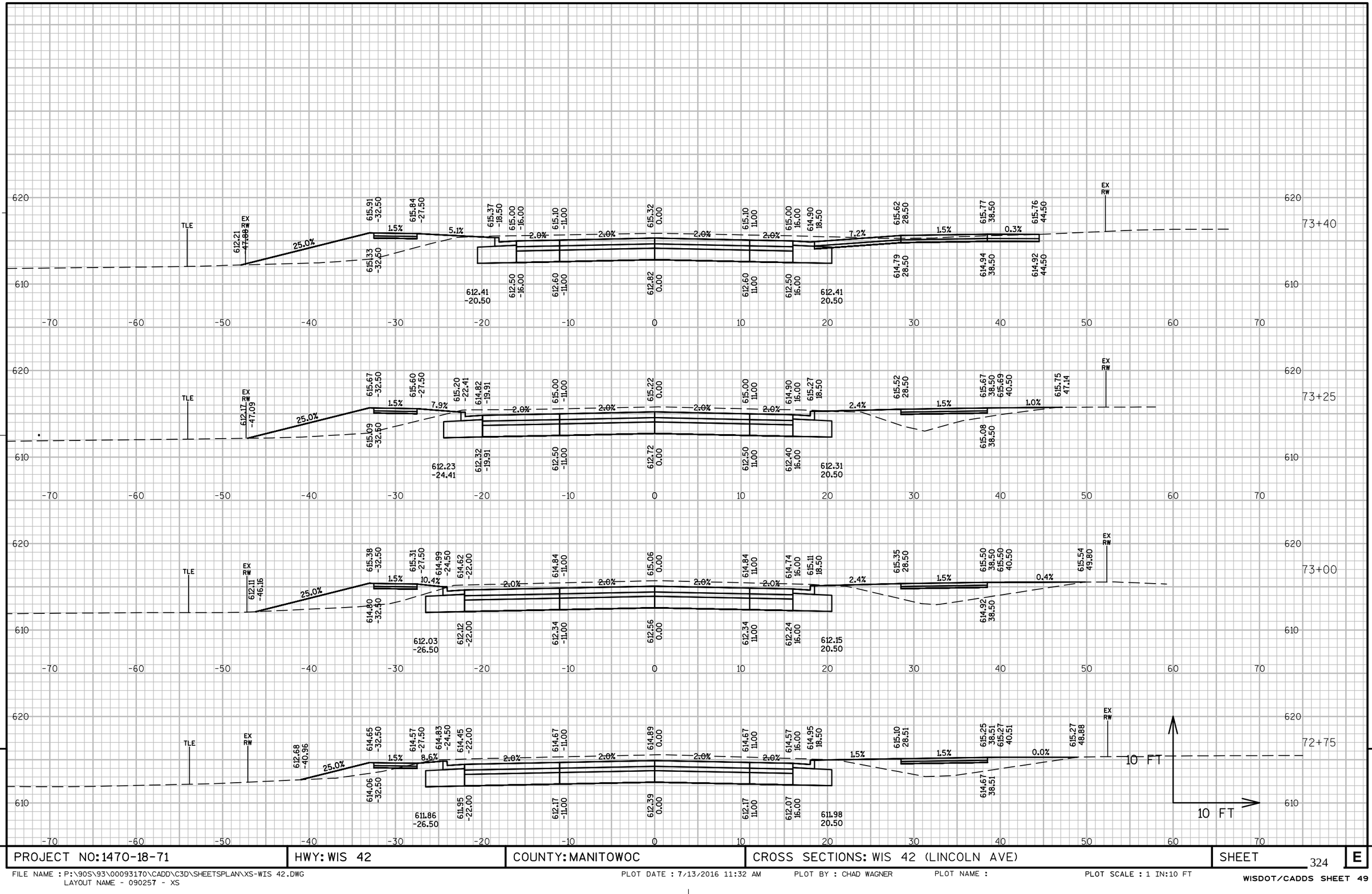
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 323	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090256 - XS

PLOT DATE : 7/13/2016 11:31 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT



9

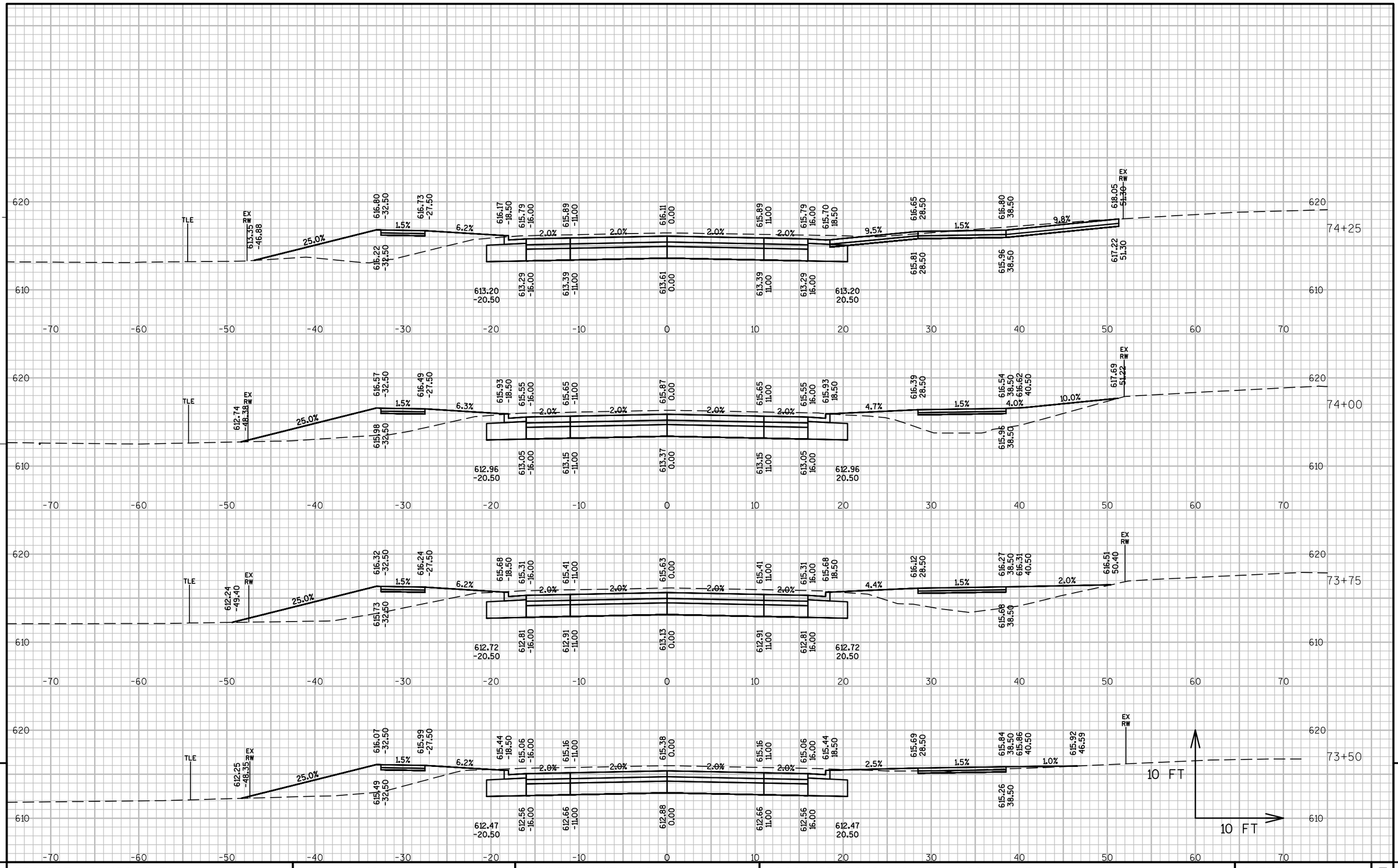
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 324	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090257 - XS

PLOT DATE : 7/13/2016 11:32 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



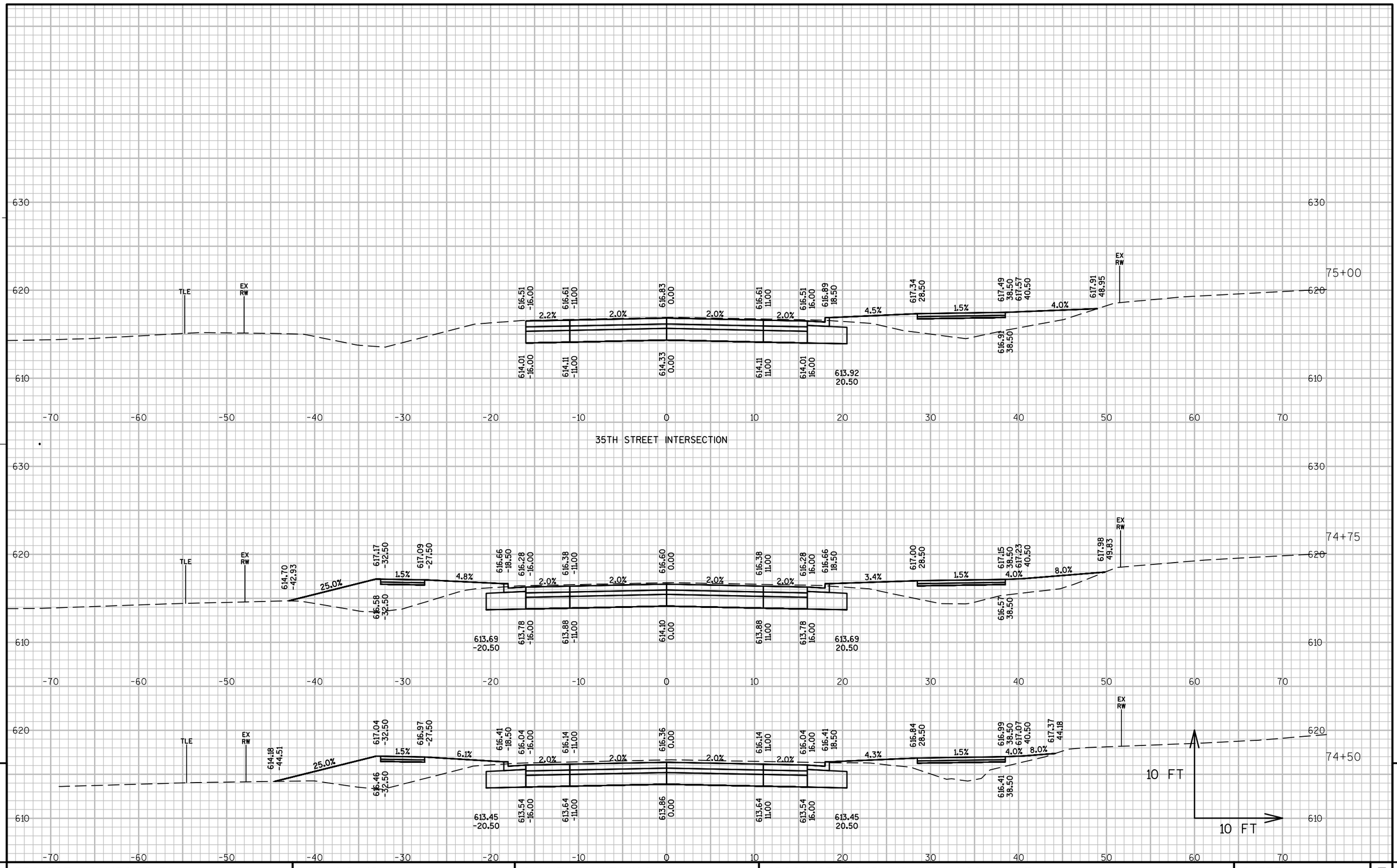
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 325	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090258 - XS

PLOT DATE : 7/13/2016 11:33 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

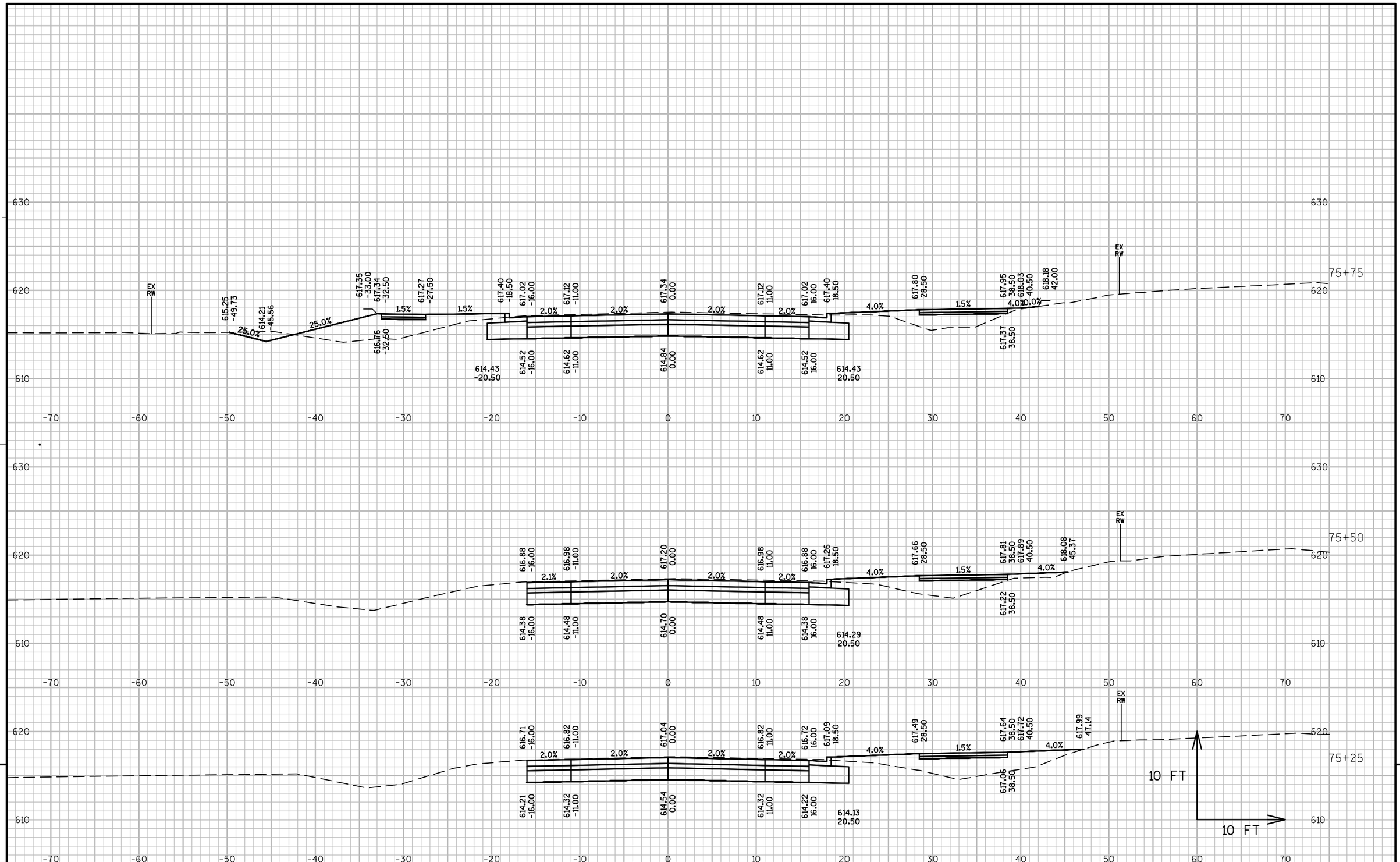
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 326	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090259 - XS

PLOT DATE : 7/13/2016 11:33 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



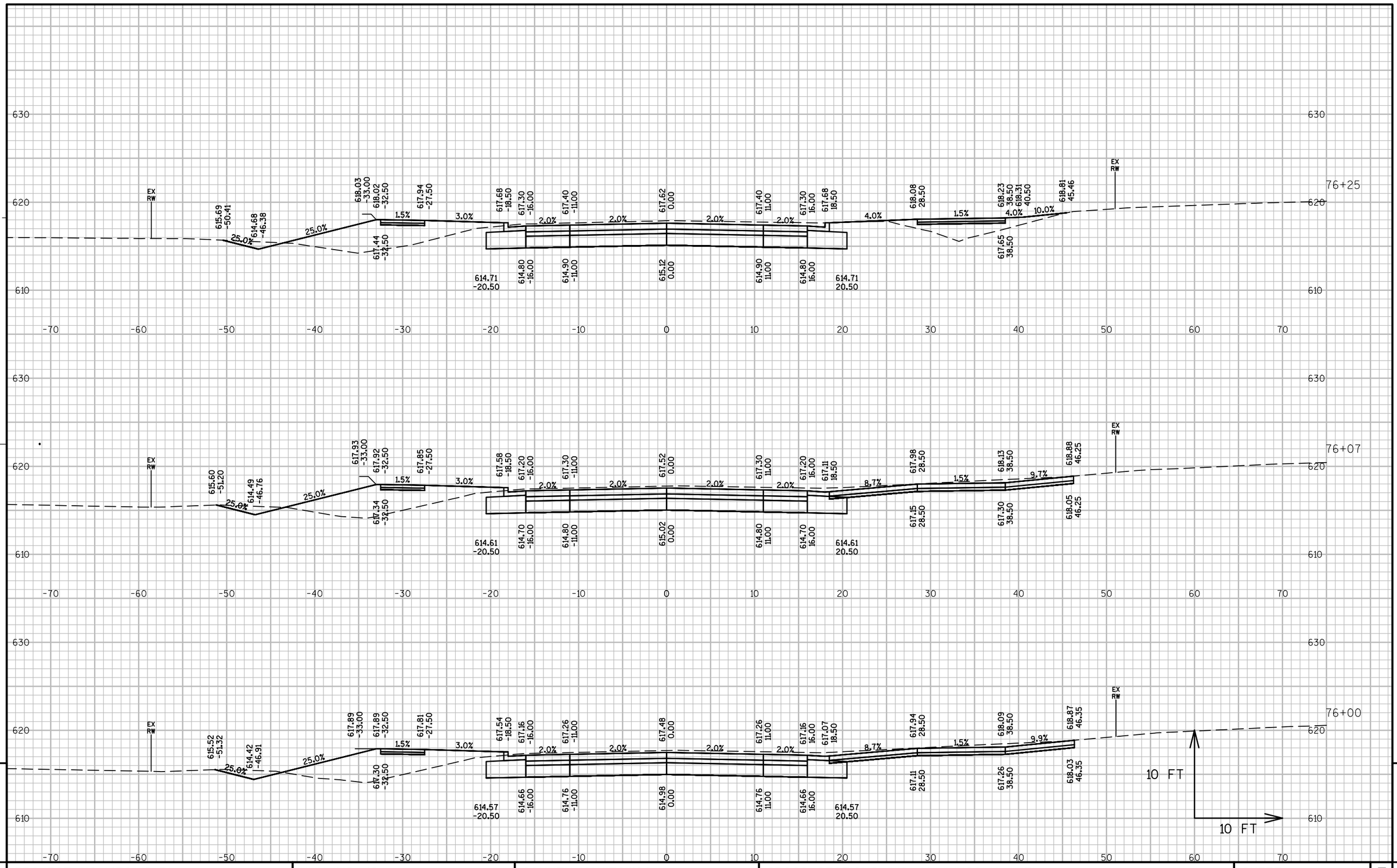
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 327	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090260 - XS

PLOT DATE : 7/13/2016 11:34 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49

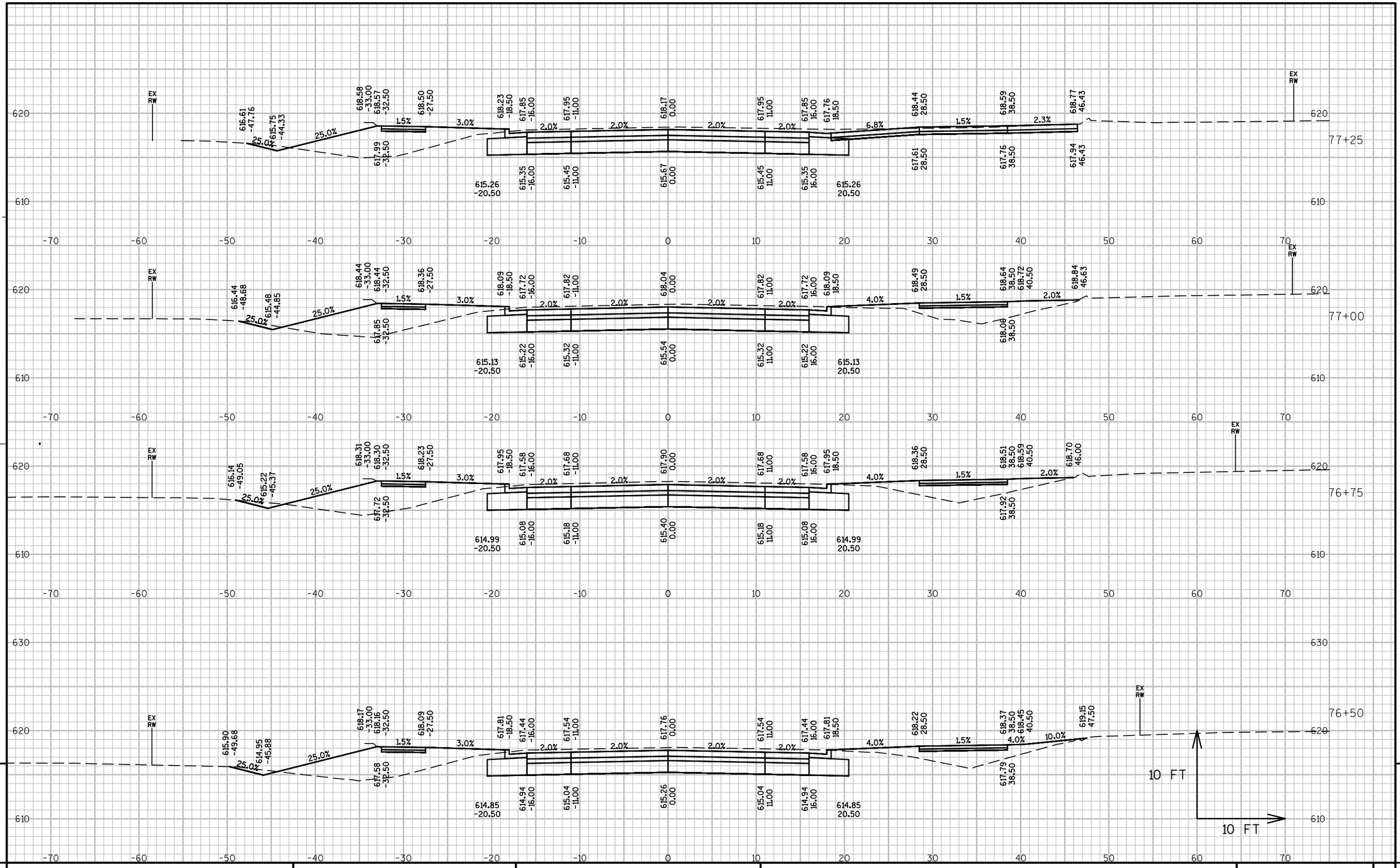


PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 328	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090261 - XS

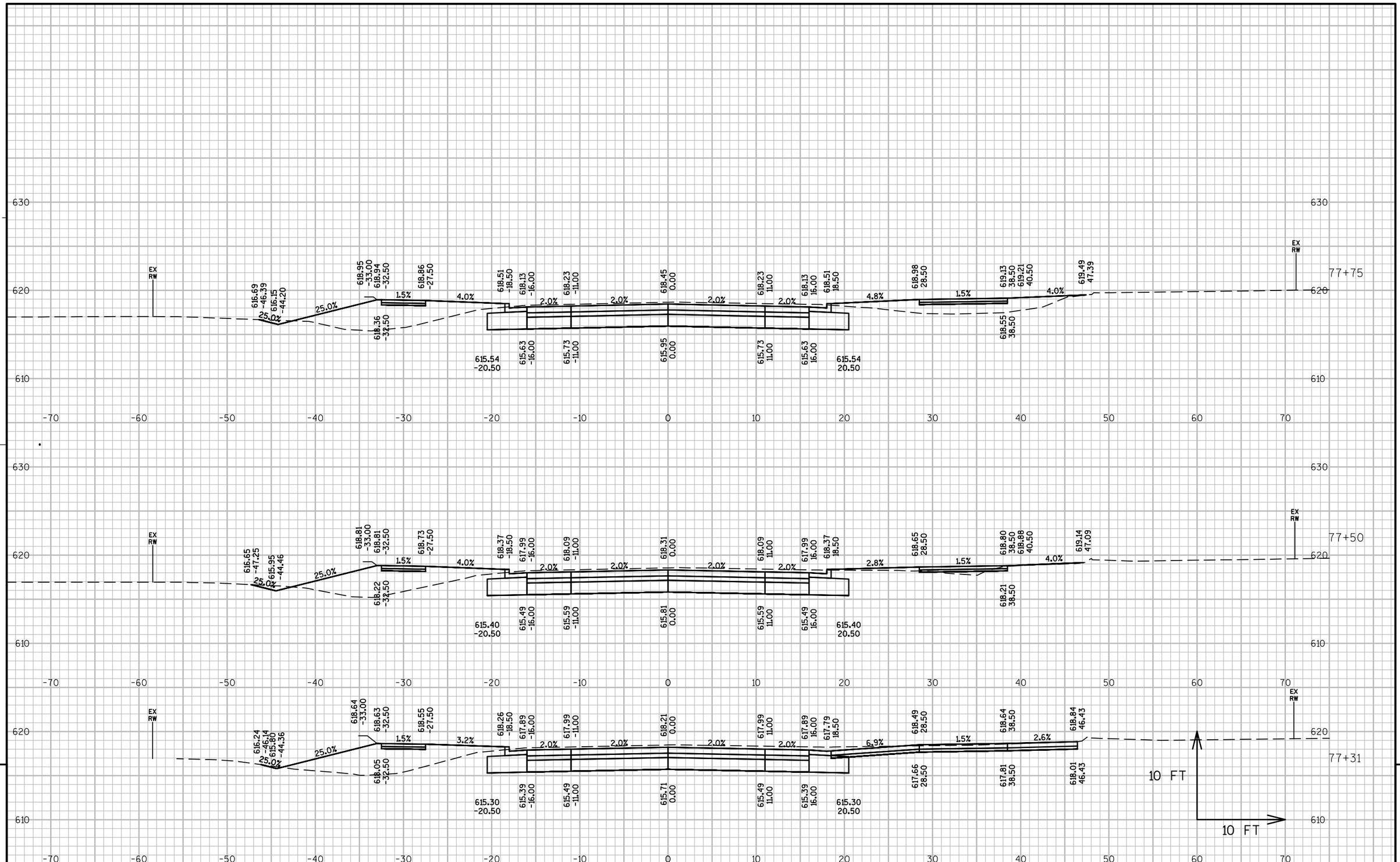
PLOT DATE : 7/13/2016 11:34 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 49



9

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 329	E



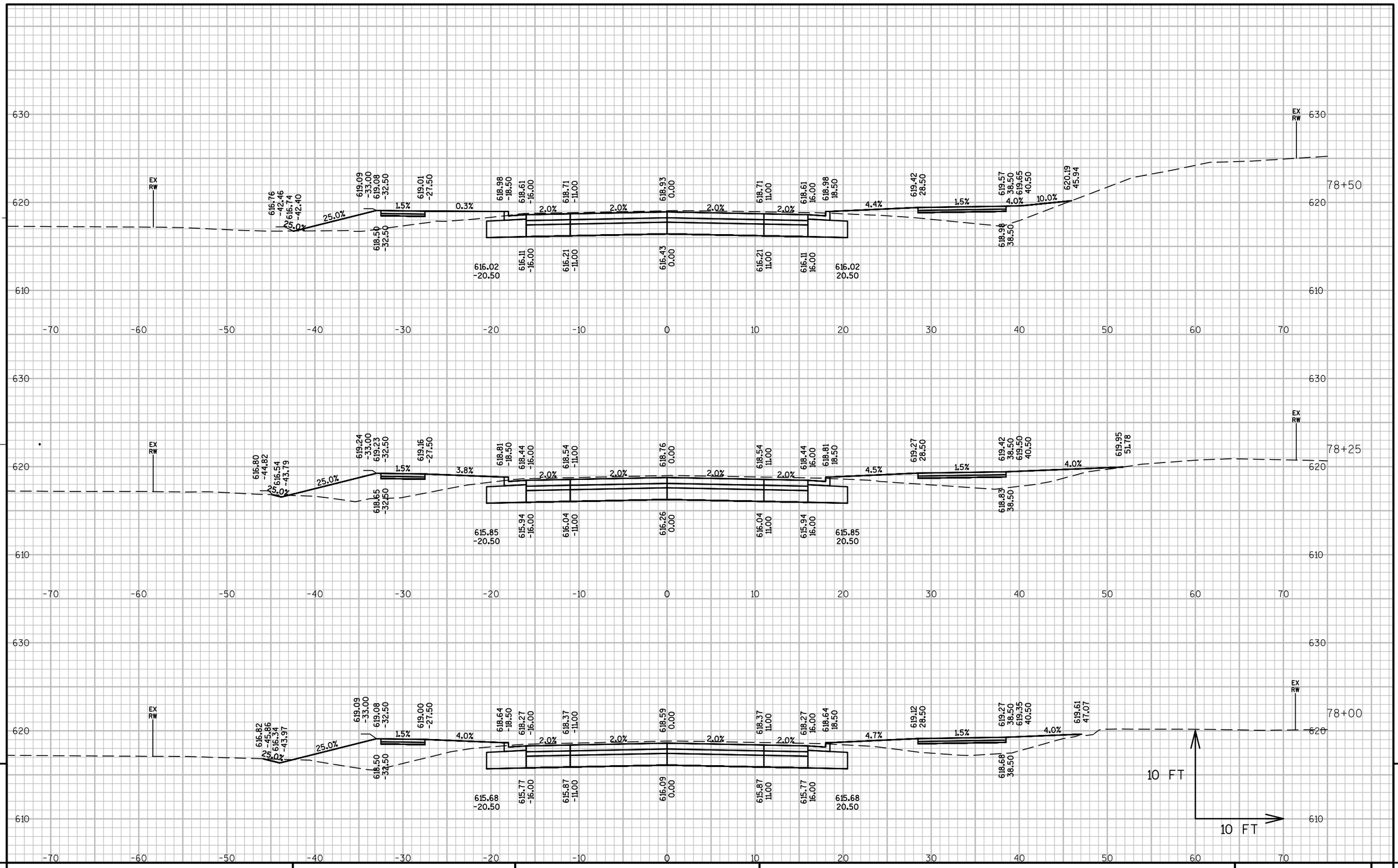
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 330	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090263 - XS

PLOT DATE : 7/13/2016 11:36 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT



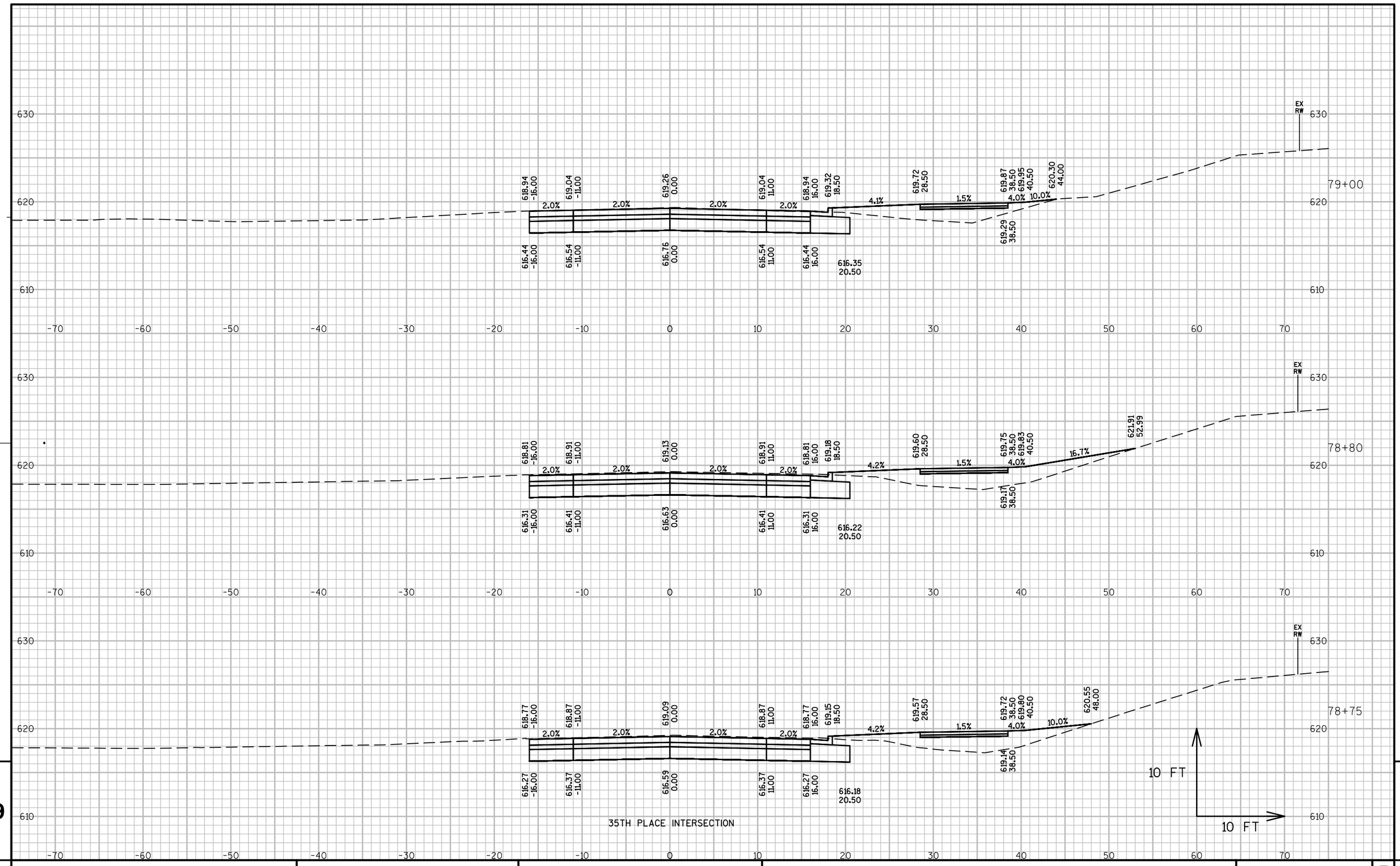
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 331	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090264 - XS

PLOT DATE : 7/13/2016 11:36 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT



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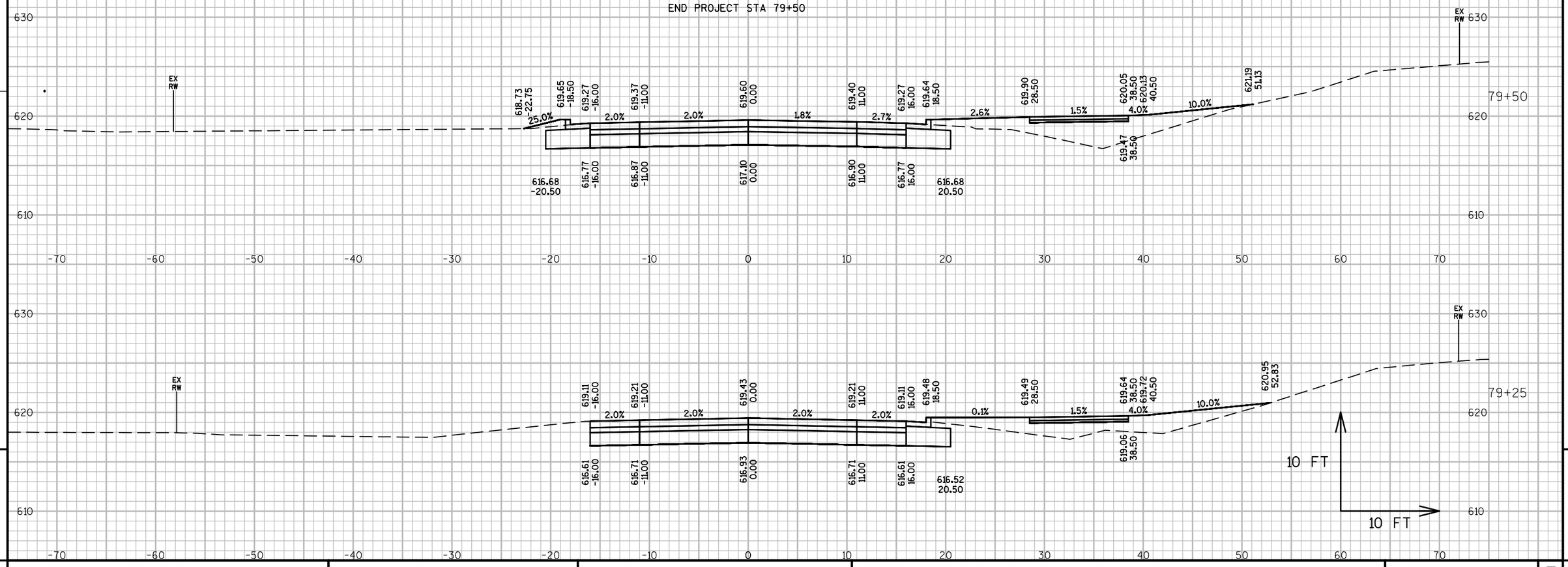
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PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 332	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090265 - XS

PLOT DATE : 7/13/2016 11:37 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

END PROJECT STA 79+50



9

9

PROJECT NO: 1470-18-71	HWY: WIS 42	COUNTY: MANITOWOC	CROSS SECTIONS: WIS 42 (LINCOLN AVE)	SHEET 333	E

FILE NAME : P:\90S\93\00093170\CADD\C3D\SHEETSPLAN\XS-WIS 42.DWG
LAYOUT NAME - 090266 - XS

PLOT DATE : 7/13/2016 11:37 AM PLOT BY : CHAD WAGNER PLOT NAME : PLOT SCALE : 1 IN:10 FT

Wisconsin Department of Transportation

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