WKE

MARCH 2019

PROJECT ID: 2704-00-76

COUNTY: RACINE

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 = 546

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2704-00-76	———	———

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

WISCONN VALLEY WAY, V MT PLEASANT

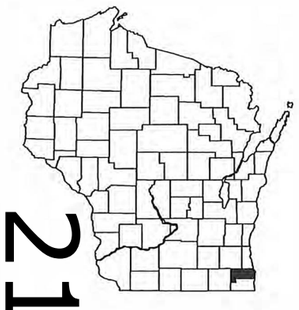
CTH KR TO STH 11

LOCAL STREET

RACINE COUNTY

STATE PROJECT NUMBER

2704-00-76

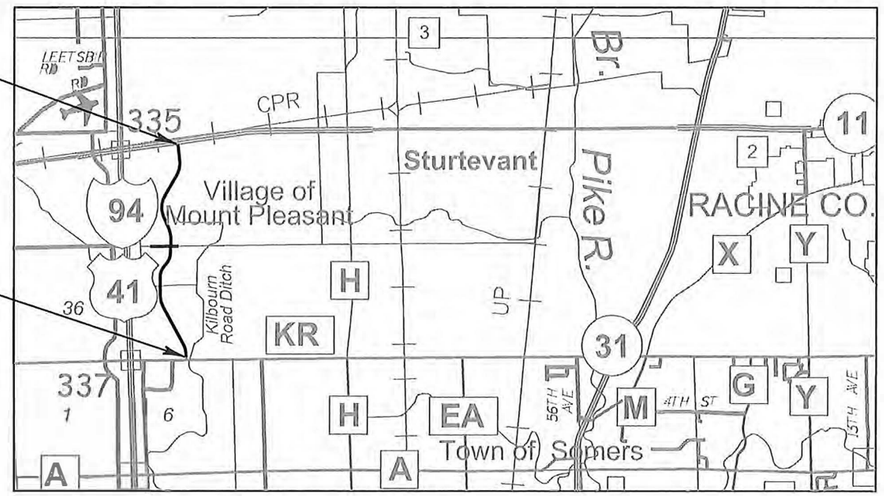


21

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END PROJECT 2704-00-76
STA 605+29.12

BEGIN PROJECT 2704-00-76
STA 501+54.47
X=596789.82
Y=165249.21



DESIGN DESIGNATION

A.A.D.T.	=	16,920 (2018)
A.A.D.T.	=	59,200 (2038)
D.H.V.	=	9,515
D.D.	=	50/50
T.	=	16.8%
DESIGN SPEED	=	40 MPH
ESALS	=	12,000,000

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

LAYOUT
SCALE 0 0.6 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.965 MI.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF NAVD 88 (1991)

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), RACINE COUNTY, NAD 1983 (1997)

WISCONSIN
PRASAD S. NARAYAN
E-26170
BROOKFIELD, WI.
PROFESSIONAL ENGINEER

12/1/18 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	KAPUR & ASSOCIATES
Designer	KAPUR & ASSOCIATES
Project Manager	STEVE HOFF
Regional Examiner	
Regional Supervisor	MANOJOY NAG

APPROVED FOR THE DEPARTMENT
DATE: 12/1/18 (Signature)

E

2

GENERAL NOTES

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

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

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL WILL NOT BE PERMITTED IN WETLAND AREAS.

FERTILIZER SHALL NOT BE USED WITHIN 20 FEET OF NAVIGABLE WATERWAYS OR WETLANDS.

CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE PLACED A MINIMUM OF 6 INCHES IN DEPTH.

TOPSOIL SHALL NOT BE PLACED UNTIL APPROVED BY ENGINEER.

RE-TOPSOIL OF GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. SEED, FERTILIZE, AND MULCH/EROSION MAT TOP-SOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL. IF GRADED AREAS ARE LEFT EXPOSED FOR MORE THAN (14) CALENDAR DAYS, SEED THOSE AREAS WITH TEMPORARY SEED AND MULCH.

STOCKPILE EXCESS MATERIAL OR SPOILS ON UPLAND AREAS AWAY FROM WETLANDS, FLOODPLAINS AND WATERWAYS. STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION. IF STOCKPILED MATERIAL IS LEFT FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THE STOCKPILE WITH TEMPORARY SEED AND MULCH.

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

ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES WILL BE FILLED WITH COMPACTED BACKFILL GRANULAR GRADE 1 UNLESS REGULATIONS REQUIRED OTHERWISE. BACKFILL GRANULAR GRADE 1 IS INCIDENTAL TO THE REMOVAL ITEM.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY INVERT AND RIM ELEVATIONS IN THE PLAN WITH THE ENGINEER.

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE LINE, UNLESS NOTED OTHERWISE.

CURB AND GUTTER JOINT SPACING SHALL MATCH ADJACENT PAVEMENT.

1/2-INCH FELT EXPANSION JOINT MATERIAL IS REQUIRED BETWEEN BACK OF CURB AND CONCRETE SIDEWALK OR DRIVEWAY APRON.

BROKEN CONCRETE CONTAINING RE-BAR SHALL NOT BE USED AS RIPRAP.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

SIGNS TO BE MOVED SHALL BE STORED AND PROTECTED BY THE CONTRACTOR, FREE FROM DAMAGE, UNTIL SUCH TIME AS THEY ARE RE-INSTALLED.

REFER TO SPECIAL PROVISIONS FOR EROSION CONTROL REQUIREMENTS.

DESIGN INDEX

GENERAL NOTES AND UTILITY CONTACTS
PROJECT OVERVIEW
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CURB RAMP DETAILS
REMOVAL PLAN
PLAN DETAILS
PAVING GRADES
ITS PLAN
EROSION CONTROL
STORM SEWER
POND DETAILS
PLANTING DETAILS
SIGNING REMOVALS
PERMANENT SIGNING
LIGHTING
TRAFFIC SIGNAL PLAN
PAVEMENT MARKING
STAGE CONSTRUCTION
TRAFFIC CONTROL
CONTROL AND BENCHMARKS
ALIGNMENT PLAN

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	GENERAL NOTES AND UTILITY CONTACTS	SHEET 2	E

UTILITY CONTACTS

AT&T WISCONSIN
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Nicole.Smullen@we-energies.com

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andy.doerflinger@we-energies.com

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STATE AGENCIES

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WISCONSIN DEPARTMENT OF NATURAL RESOURCES
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OTHER AGENCIES

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mbenish@mtpleasantwi.gov

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STURTEVANT, WI 53177
PHONE: (262) 886-8442
nathan.plunkett@racinecounty.com

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION
ROB MERRY
W239 N1812 ROCKWOOD DRIVE
P.O. BOX 1607
WAUKESHA, WI 53187-1607
PHONE: (262) 953-4289
CELL: (920) 912-1036
rmerry@sewrpc.org

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

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

STANDARD ABBREVIATIONS

<	ANGLE
ADT	AVERAGE DAILY TRAFFIC
AC	ACRE
AE, AEW	APRON ENDWALL
AGG	AGGREGATE
AH	AHEAD
ASPH	ASPHALTIC
BC	BACK OF CURB
BF	BACK FACE
BIT	EXISTING BITUMINOUS
BM	BENCH MARK
BEG	BEGIN
BK	BACK
C & G	CURB AND GUTTER
CABC	CRUSHED AGGREGATE BASE COURSE
CB	CATCH BASIN
CMCP	CORRUGATED METAL CULVERT PIPE
CMP	CORRUGATED METAL PIPE
CP	CULVERT PIPE
CY	CUBIC YARD
CL OR C/L	CENTER LINE
CO	COUNTY
CONC	CONCRETE
CONST	CONSTRUCTION
CR	CREEK
CTH	COUNTY TRUNK HIGHWAY
CWT	HUNDRED WEIGHT
D	DEGREE OF CURVE
△	DELTA
DHV	DESIGN HOUR VOLUME
DIA	DIAMETER
DISCH	DISCHARGE
E	EAST
EA	EACH
EB	EASTBOUND
EBS	EXCAVATION BELOW SUBGRADE
EL, ELEV	ELEVATION
ELEC	ELECTRIC(AL), ELEC CABLE
EMB	EMBANKMENT
ESALS	EQUIVALENT SINGLE AXLE LOADS
ESMT	EASEMENT
EW	ENDWALL
EXC	EXCAVATION
EXIST	EXISTING BITUMINOUS
EXP	EXPANSION
FC	FACE OF CURB
FE	FIELD ENTRANCE
FF	FACE TO FACE
F/L, FL	FLOW LINE
FERT	FERTILIZER
FHWA	FEDERAL HIGHWAY
FT	FOOT (FEET)
G	GAS
GN	GRID NORTH
H	HOUSE
HMA	HOT MIX ASPHALT
HORZ	HORIZONTAL
HP	HIGH POINT
HR	HANDICAP RAMP
HYD	HYDRANT
I	INTERSECTION ANGLE
ID	INSIDE DIAMETER
INL	INLET
INTER	INTERSECTION
INV	INVERT
IP	IRON PIPE
JT	JOINT
K	RATE OF VERTICAL CURVATURE
L	LENGTH OF CURVE
LB	POUND
LC	LONG CHORD OF CURVE
LP	LOW POINT
LF	LINEAR FOOT(FEET)
LHF	LEFT HAND FORWARD
LS	LUMP SUM
LT	LEFT
M	MARSH
MATL	MATERIAL
MP	MARKER POST
MAX	MAXIMUM
MGAL	1000 GALLONS
MH	MANHOLE
MIN	MINIMUM
ML OR M/L	MATCH LINE
N	NORTH
NB	NORTHBOUND
NC	NORMAL CROWN OR NO CHANGE
NO	NUMBER
NW OR N/W	NORMAL WATER
OBLIT	OBLITERATE
OD	OUTSIDE DIAMETER
PAVT	PAVEMENT
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PLE	PERMANENT LIMITED EASEMENT
PRC	POINT OF REVERSE CURVE
PROJ	PROJECT
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PAV'T	PAVEMENT
PCC	PORTLAND CEMENT CONCRETE
R	RADIUS OR RANGE
RC	REVERSE CURVE
RCCP	REINFORCED CONCRETE CULVERT PIPE
RCHECP	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CULVERT PIPE
RCPSS	REINFORCED CONCRETE PIPE STORM SEWER
RHF	RIGHT HAND FORWARD
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RD	ROAD
RDWY	ROADWAY
REL	RELOCATE
REM	REMAINING
REQD	REQUIRED
RO	RUN OFF LENGTH
RT	RIGHT
RW	RETAINING WALL
S	SOUTH
SALV	SALVAGED
SAN	SANITARY
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWINGS
SE	SUPERELEVATION
SEC	SECTION
SF	SQUARE FOOT (FEET)
S/L	SURVEY LINE
SHLDR	SHOULDER(S)
SHR	SHRINKAGE
SPECS	SPECIFICATIONS
SS	STORM SEWER
STA	STATION
STH	STATE TRUNK HIGHWAY
STR	STRUCTURE
SW	SIDEWALK
SY	SQUARE YARD
TAN	TANGENT
TEL	TELEPHONE
T	(TRUCKS) PERCENT OF
TC	TOP OF CURB
TAN	TANGENT
TEMP	TEMPORARY
TL OR T/L	TRANSIT LINE
TLE	TEMPORARY LIMITED EASEMENT
TYP	TYPICAL
UG	UNDERGROUND (CABLE)
UNCL	UNCLASSIFIED
VAR	VARIABLE
VCL	VERTICAL CURVE LENGTH
VPC	VERTICAL POINT OF CURVATURE
VPCC	VERTICAL POINT OF COMPOUND CURVE
VPI	VERTICAL POINT OF INTERSECTION
VPRC	VERTICAL POINT OF REVERSE CURVE
VPT	VERTICAL POINT OF TANGENCY
VLV	VALVE
VOL	VOLUME
W	WEST
WB	WESTBOUND
WV	WATER VALVE
X	EASTING OR EAST GRID COORDINATE
Y	NORTHING OR NORTH GRID COORDINATE
YD	YARD

2

2

BEGIN CONSTRUCTION
STA 54BRE+36.47

C-51-85 (BOX CULVERT WILL BE CONSTRUCTED PRIOR TO LET AS SEPARATE PROJECT)

DETENTION POND J

BRAUN RD

APPROXIMATE LIMITS OF EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL. SEE SPECIAL PROVISIONS.

PROJECT 2704-09-70
BY OTHERS

END CONSTRUCTION
STA 71BRE+75.05

PROJECT 2704-00-77
BY OTHERS

BEGIN PROJECT 2704-00-76
STA 501+54.47

SLOPE INTERCEPT (TYP)

WETLAND BOUNDARY (TYP)

WISCONN VALLEY WAY

R/L WISCONN VALLEY WAY

UNNAMED TRIBUTARY NO. 18 TO KILBOURN ROAD DITCH

CTH KR

DETENTION POND I

KILBOURN ROAD DITCH

DETENTION POND K

SLOPE INTERCEPT (TYP)

R/L WISCONN VALLEY WAY

WISCONN VALLEY WAY

APPROXIMATE LIMITS OF EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL. SEE SPECIAL PROVISIONS.

PROJECT 1320-23-70
BY OTHERS

CTH H

UNNAMED TRIBUTARY TO KILBOURN ROAD DITCH

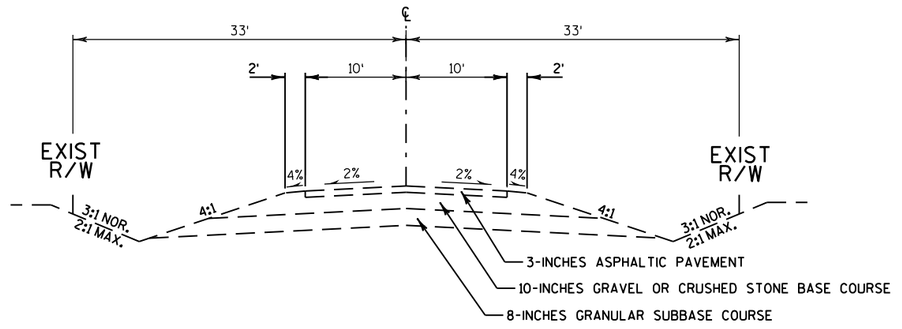
END PROJECT 2704-00-76
STA 605+29.12

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PROJECT OVERVIEW	SHEET 4	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\020201_PO.dgn PLOT DATE : 12/19/2018 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:400

WISDOT/CADDS SHEET 42

2

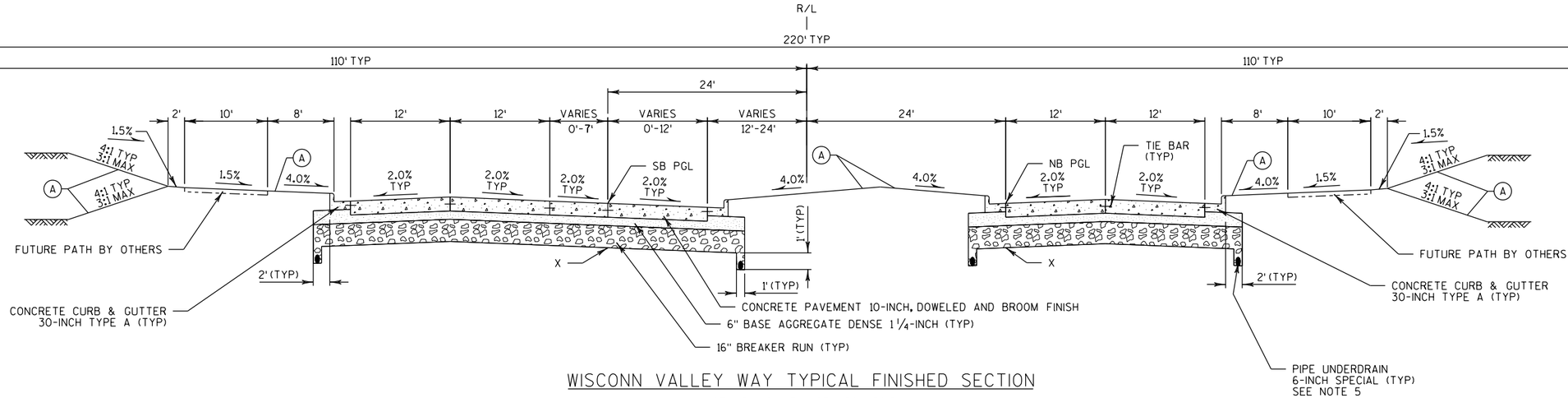


TYPICAL EXISTING SECTION

BRAUN ROAD

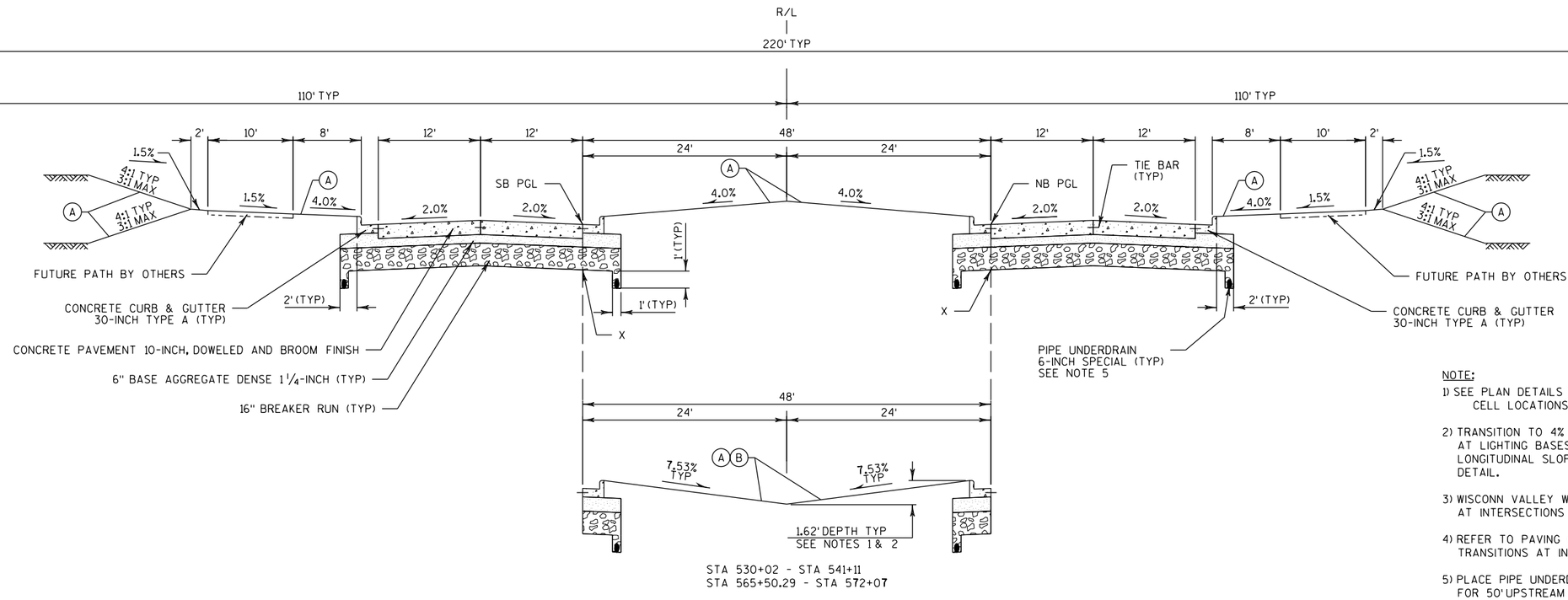
STA A 54BRE+36 - STA A 71BRE+75

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	TYPICAL EXISTING SECTIONS - BRAUN ROAD	SHEET 5	E



WISCONN VALLEY WAY TYPICAL FINISHED SECTION

STA 501+54.47 - STA 504+39.54



WISCONN VALLEY WAY TYPICAL FINISHED SECTION

STA 504+39.54 - STA 547+78.27
STA 565+50.29 - STA 602+36.58

STA 530+02 - STA 541+11
STA 565+50.29 - STA 572+07

NOTE:

1) SEE PLAN DETAILS FOR BIORETENTION CELL LOCATIONS.

2) TRANSITION TO 4% CROWNED MEDIAN AT LIGHTING BASES. MAXIMUM 6:1 LONGITUDINAL SLOPE. SEE CONSTRUCTION DETAIL.

3) WISCONN VALLEY WAY CROSS SLOPE VARIES AT INTERSECTIONS

4) REFER TO PAVING GRADES FOR CROSS SLOPE TRANSITIONS AT INTERSECTIONS.

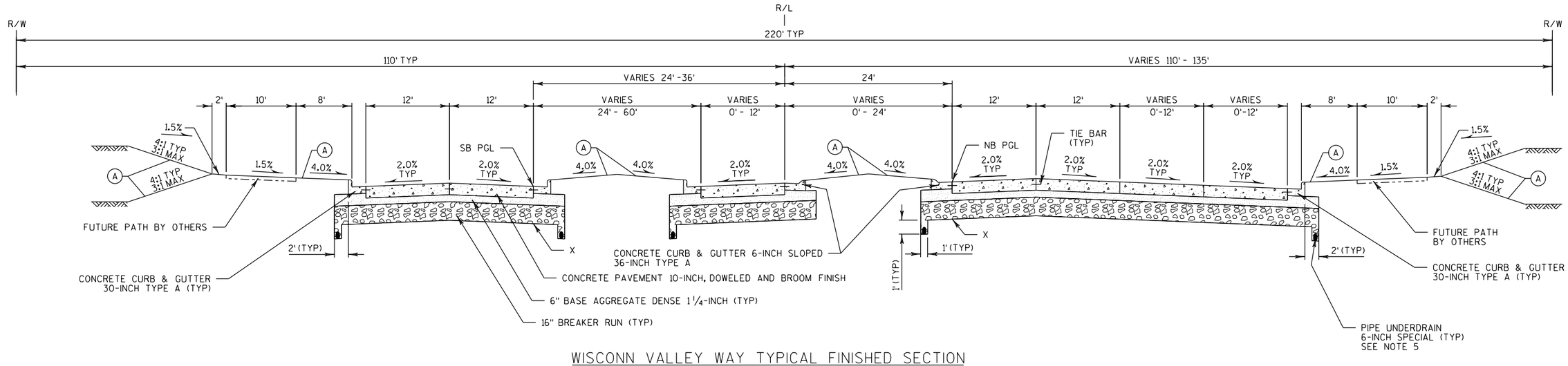
5) PLACE PIPE UNDERDRAIN 6-INCH SPECIAL FOR 50' UPSTREAM OF INLETS. SEE CONSTRUCTION DETAILS.

(A) TOPSOIL SPECIAL, FERTILIZER, SEED, AND EROSION MAT

(B) REFER TO BIORETENTION CELL DETAILS AND PLAN DETAILS FOR LOCATIONS AND ADDITIONAL INFORMATION ON MEDIAN BIORETENTION CELLS.

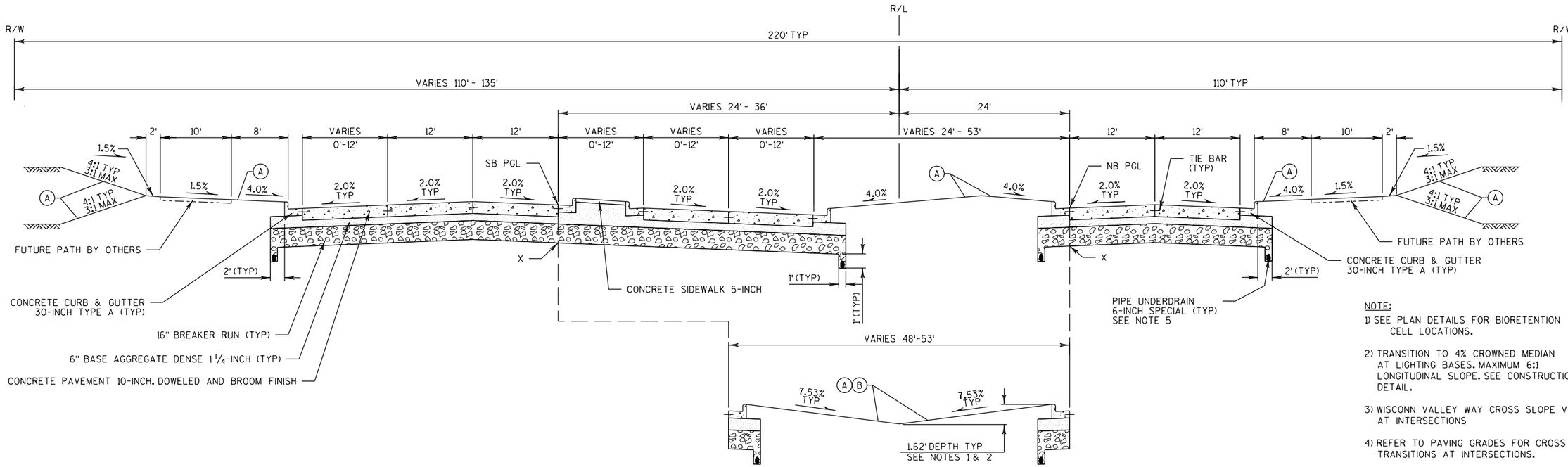
X = POINT REFERENCED ON CROSS SECTIONS
PGL = POINT REFERRED TO ON PROFILE

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	TYPICAL SECTIONS	SHEET 6	E



WISCONN VALLEY WAY TYPICAL FINISHED SECTION

STA 547+78.27 - STA 556+04.12



WISCONN VALLEY WAY TYPICAL FINISHED SECTION

STA 563+72 - STA 565+50.29

STA 557+24.12 - STA 565+50.29

NOTE:

1) SEE PLAN DETAILS FOR BIORETENTION CELL LOCATIONS.
2) TRANSITION TO 4% CROWNED MEDIAN AT LIGHTING BASES. MAXIMUM 6:1 LONGITUDINAL SLOPE. SEE CONSTRUCTION DETAIL.
3) WISCONN VALLEY WAY CROSS SLOPE VARIES AT INTERSECTIONS
4) REFER TO PAVING GRADES FOR CROSS SLOPE TRANSITIONS AT INTERSECTIONS.
5) PLACE PIPE UNDERDRAIN 6-INCH SPECIAL FOR 50' UPSTREAM OF INLETS. SEE CONSTRUCTION DETAILS.

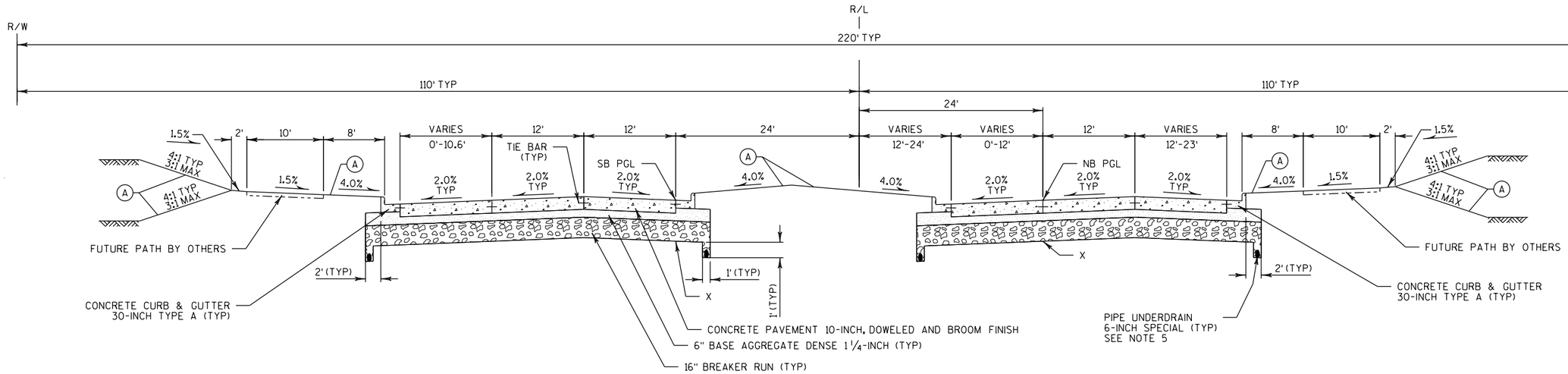
(A) TOPSOIL SPECIAL, FERTILIZER, SEED, AND EROSION MAT

(B) REFER TO BIORETENTION CELL DETAILS AND PLAN DETAILS FOR LOCATIONS AND ADDITIONAL INFORMATION ON MEDIAN BIORETENTION CELLS.

X = POINT REFERENCED ON CROSS SECTIONS
PGL = POINT REFERRED TO ON PROFILE

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	TYPICAL SECTIONS	SHEET 7	E

2



WISCONN VALLEY WAY TYPICAL FINISHED SECTION

STA 602+36.58 - STA 605+29.12

NOTE:

1) SEE PLAN DETAILS FOR BIORETENTION CELL LOCATIONS.

2) TRANSITION TO 4% CROWNED MEDIAN AT LIGHTING BASES. MAXIMUM 6:1 LONGITUDINAL SLOPE. SEE CONSTRUCTION DETAIL.

3) WISCONN VALLEY WAY CROSS SLOPE VARIES AT INTERSECTIONS

4) REFER TO PAVING GRADES FOR CROSS SLOPE TRANSITIONS AT INTERSECTIONS.

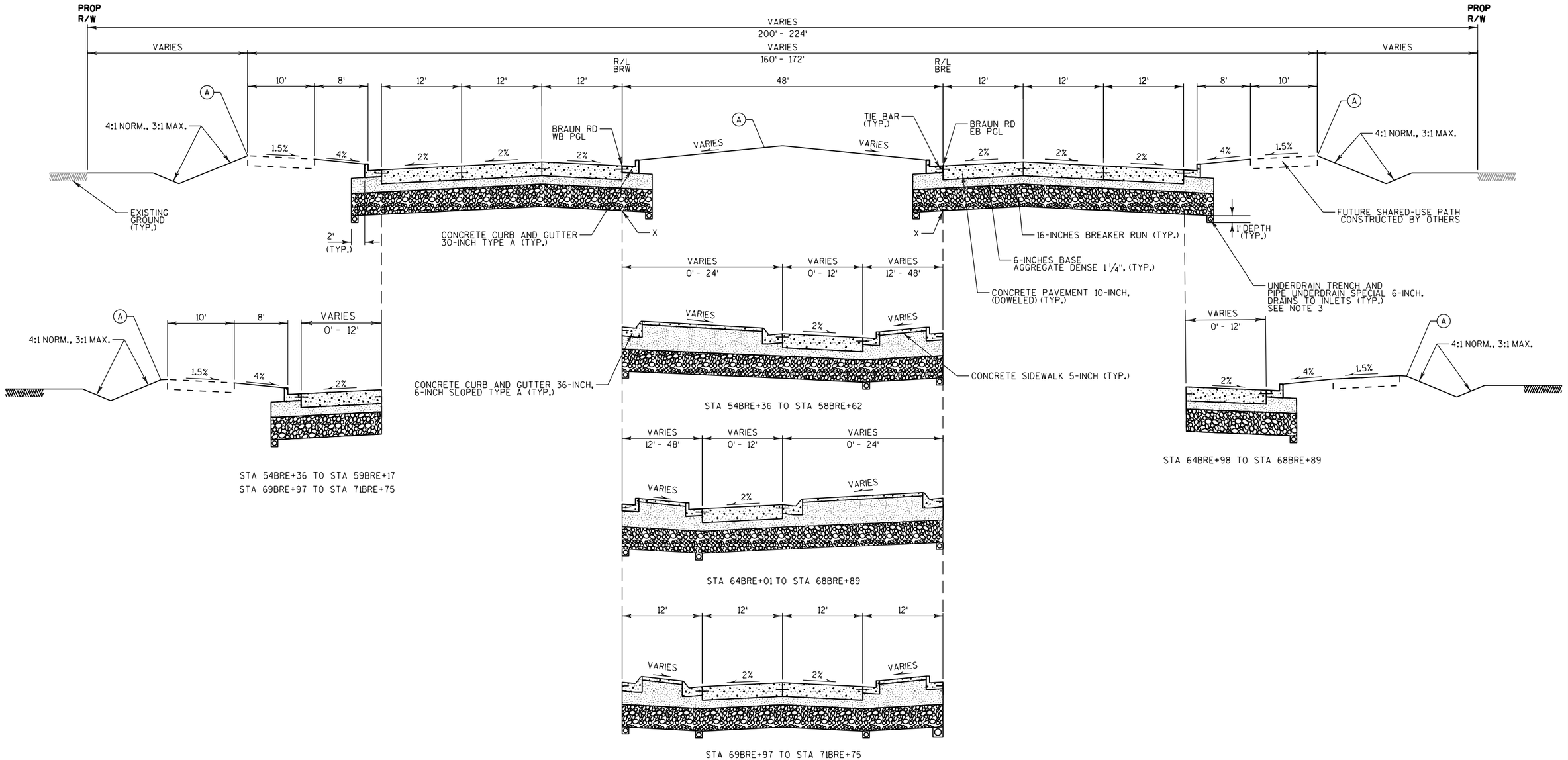
5) PLACE PIPE UNDERDRAIN 6-INCH SPECIAL FOR 50' UPSTREAM OF INLETS. SEE CONSTRUCTION DETAILS.

(A) TOPSOIL SPECIAL, FERTILIZER, SEED, AND EROSION MAT

(B) REFER TO BIORETENTION CELL DETAILS AND PLAN DETAILS FOR LOCATIONS AND ADDITIONAL INFORMATION ON MEDIAN BIORETENTION CELLS.

X = POINT REFERENCED ON CROSS SECTIONS
PGL = POINT REFERRED TO ON PROFILE

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	TYPICAL SECTIONS	SHEET 8	E



BRAUN ROAD TYPICAL FINISHED SECTION

STA 54BRE+36 - STA 71BRE+75

LEGEND

(A) TOPSOIL SPECIAL, FERTILIZER, SEED, AND EROSION MAT

X = POINT REFERRED TO ON CROSS SECTION

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

NOTE:

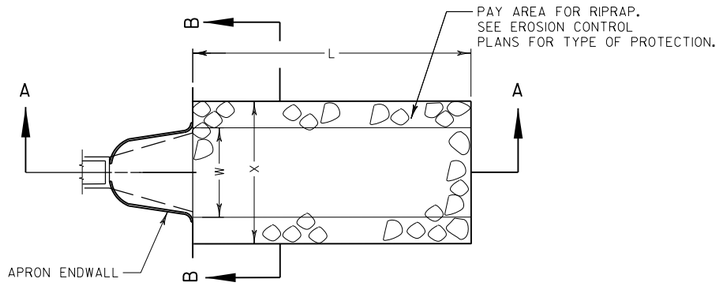
1. BRAUN ROAD CROSS SLOPE VARIES TO 1% AT WISCONN VALLEY WAY INTERSECTION.
2. REFER TO PAVING GRADES FOR CROSS SLOPE TRANSITIONS AT INTERSECTION.
3. PLACE PIPE UNDERDRAIN 6-INCH SPECIAL FOR 50' UPSTREAM OF INLETS SEE CONSTRUCTION DETAILS

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	TYPICAL FINISHED SECTIONS - BRAUN ROAD	SHEET 9	E

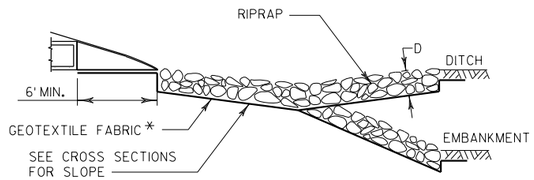
RUNOFF COEFFICIENT TABLE

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

TOTAL PROJECT AREA = 56.63 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 56.63 ACRES



PLAN VIEW



SECTION A-A

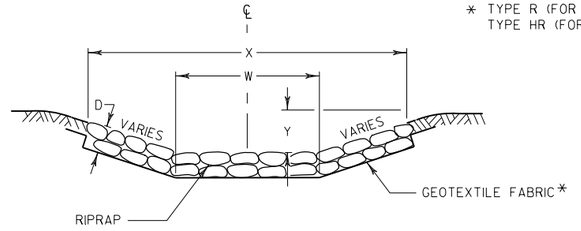
L = 3 x W (NOR) OR 10' MIN
OR AS INDICATED IN THE PLANS
OR AS DIRECTED BY THE ENGINEER

D = 12" FOR RIPRAP LIGHT
18" FOR RIPRAP MEDIUM
24" FOR RIPRAP HEAVY

X = W+2' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
W+5' FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

Y = 0' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH
12" FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE

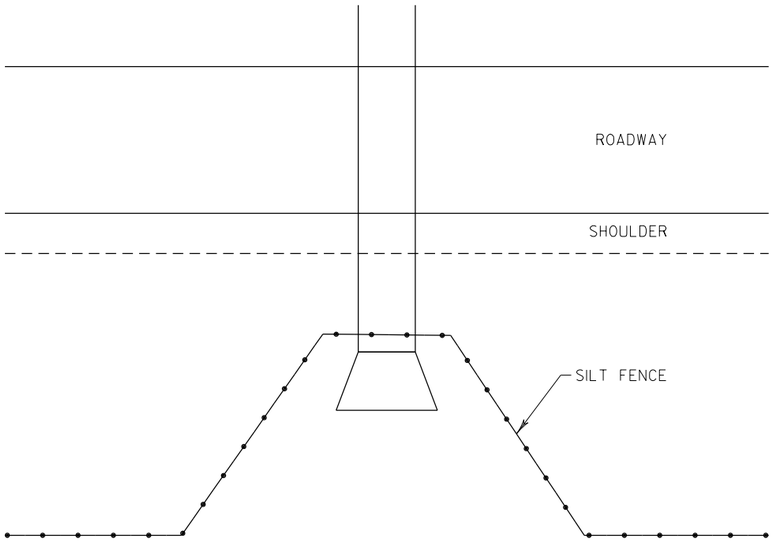
* TYPE R (FOR RIPRAP LIGHT ONLY)
TYPE HR (FOR RIPRAP HEAVY AND MEDIUM ONLY)



SECTION B-B

RIPRAP AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS

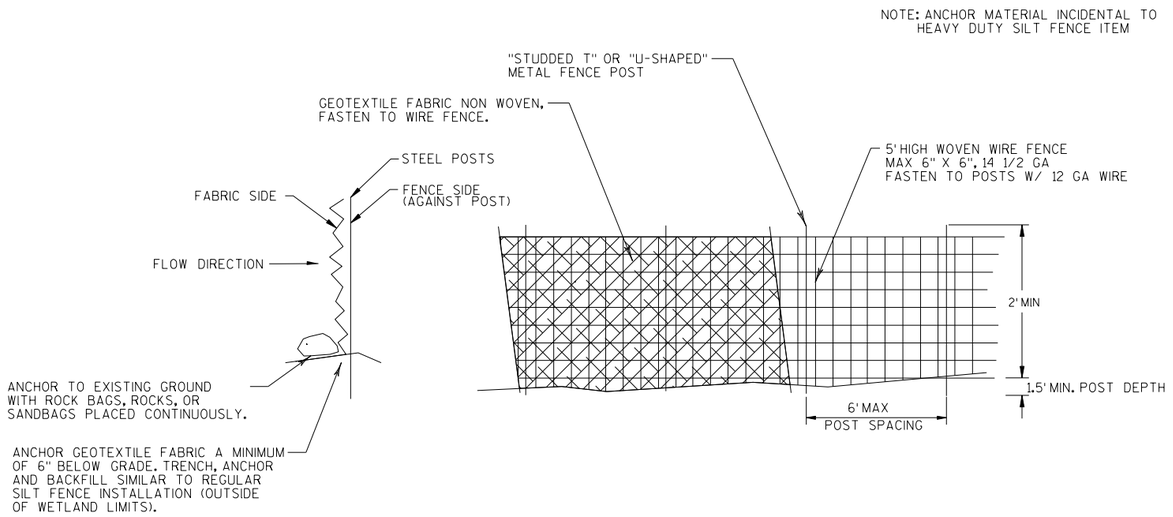
SEE EROSION CONTROL PLAN FOR LOCATIONS



NOTE

SEE SILT FENCE SDD FOR ADDITIONAL INFORMATION.

TYPICAL SILT FENCE DETAIL AT PIPE INLET



HEAVY DUTY SILT FENCE

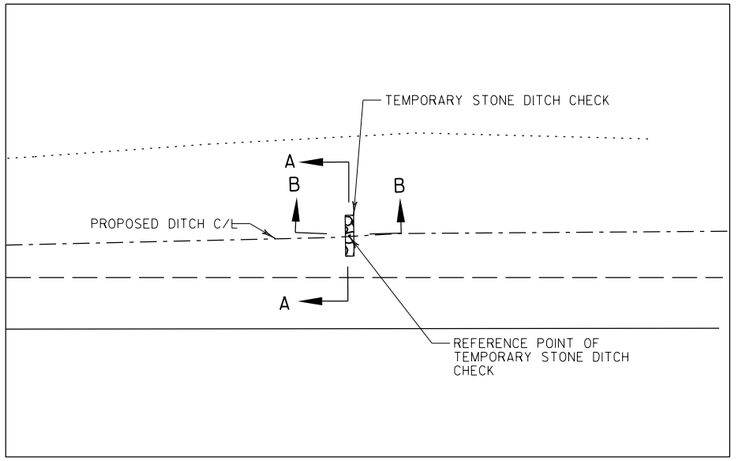
GENERAL NOTES

STONE DITCH CHECKS MUST BE INSTALLED WITH THE CENTER LOWER THAN THE SIDES FORMING A WEIR (SEE SECTION A-A).

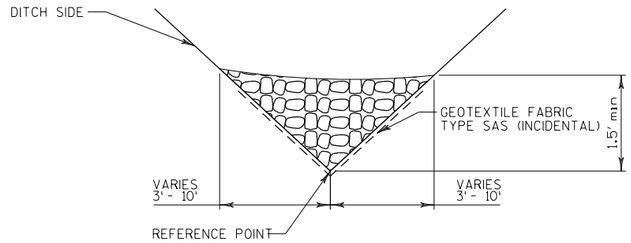
STONE DITCH CHECKS SHALL HAVE A MINIMUM TOP WIDTH OF 2-FT MEASURED IN THE DIRECTION OF FLOW WITH MAXIMUM SLOPES OF 2:1 ON THE UPSLOPE AND 2:1 ON THE DOWN SLOPE SIDE.

STONE DITCH CHECKS SHALL BE CONSTRUCTED OF A WELL-GRADED LIGHT RIPRAP MATERIAL.

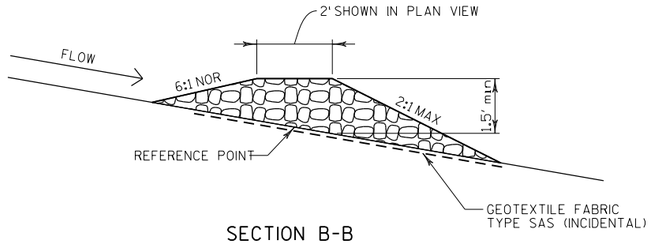
STONE DITCH CHECKS IDENTIFIED IN STORM SEWER PLAN ARE PERMANENT AND SHALL NOT BE REMOVED UPON COMPLETION OF CONSTRUCTION.



PLAN VIEW

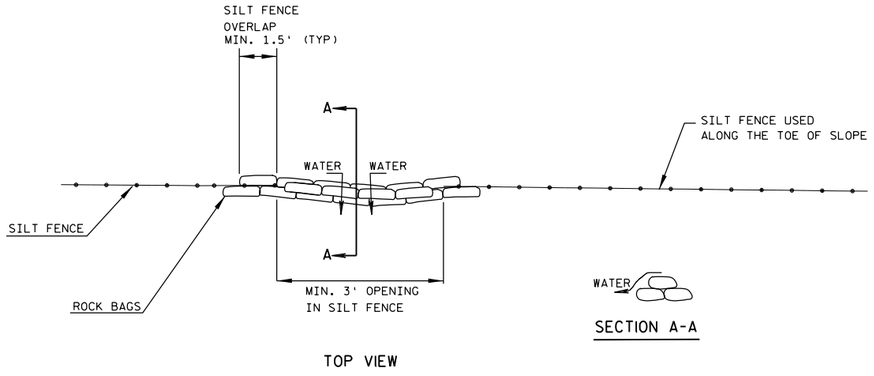


SECTION A-A

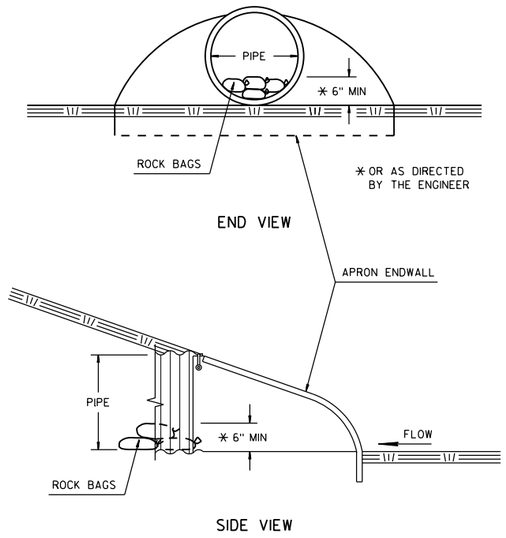


SECTION B-B

TEMPORARY STONE DITCH CHECKS



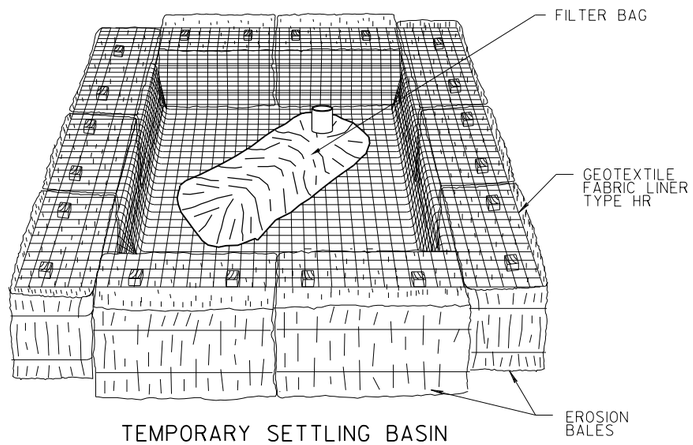
ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL



CULVERT PIPE CHECKS

ESTIMATED BAG SIZE = 18" X 12" X 6"	
PIPE SIZE	ESTIMATED NUMBER OF BAGS
12"	1
15"	2
18"	2
24"	3
30"	5
36"	7
42"	7
48"	10
54"	10
60"	13
66"	14
72"	16
13"X17"	2
19"X30"	5
24"X38"	7
29"X45"	10
34"X53"	10
38"X60"	13
48"X76"	18

ROCK BAGS



TEMPORARY SETTLING BASIN

ALL MATERIALS REQUIRED FOR TEMPORARY SETTLING BASIN ARE INCIDENTAL TO CONTRACT

(SIZE TO BE DETERMINED IN FIELD AS INDICATED BELOW:)

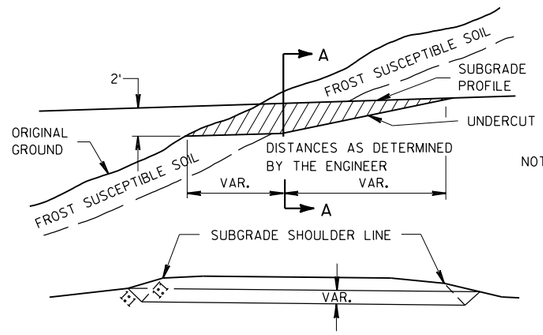
STORAGE VOLUME (C.F.) = 16 X GPM (PUMP RATE)

EXAMPLE:
CONTRACTOR INDICATES PUMP CAPABLE OF 50 GPM
HEIGHT OF BALES = 1.5 FT.

SOLUTION:
SV (C.F.) = 16 X 50
SV = 800 C.F.

$\frac{800 \text{ C.F.}}{1.5 \text{ FT.}}$ = 533 S.F.

USE A 20 FT. X 27 FT. BASIN



SECTION A-A

CROSS SECTION SHOWING UNDERCUT

EXCAVATION BELOW SUBGRADE AT CUTS

NOTE: EXACT LOCATIONS AND EXTENT OF E.B.S. SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

E.B.S. AREA TO BE BACKFILLED WITH ITEM "EBS BACKFILL"

BACKFILL MUST BE HOMOGENEOUS WITH ADJOINING FILL MATERIAL.

THE FILL SECTION WITHIN 100' OF THE MOUTH OF THE CUT MUST BE KEPT 2' BELOW SUBGRADE UNTIL E.B.S. IS COMPLETED.

2

ESTIMATED LOCATIONS FOR GREATER THAN 2 FEET
OF EXCAVATION TO SUITABLE SUBGRADE

BEGIN STA	END STA	ESTIMATED REMOVAL DEPTH (FEET)*
529+25	533+25	3
537+00	537+50	4
537+50	538+50	6
538+50	539+00	4

NOTES: * STATIONS OUTSIDE LISTED LIMITS SHOULD
EXCAVATE MINIMUM 2 FEET TO ESTIMATED SUITABLE SUBGRADE.

NOTES:

STRIP TOPSOIL FROM ROADWAY FOUNDATION. REPLACE WITH ROADWAY EMBANKMENT.

THE TOPSOIL THICKNESS MAY BE INCREASED TO 12" OR AS DIRECTED BY THE ENGINEER TO UTILIZE EXCESS TOPSOIL.
TOPSOIL PLACED THICKER THAN 6" WILL BE PAID FOR UNDER THE ROADWAY EMBANKMENT BID ITEM.

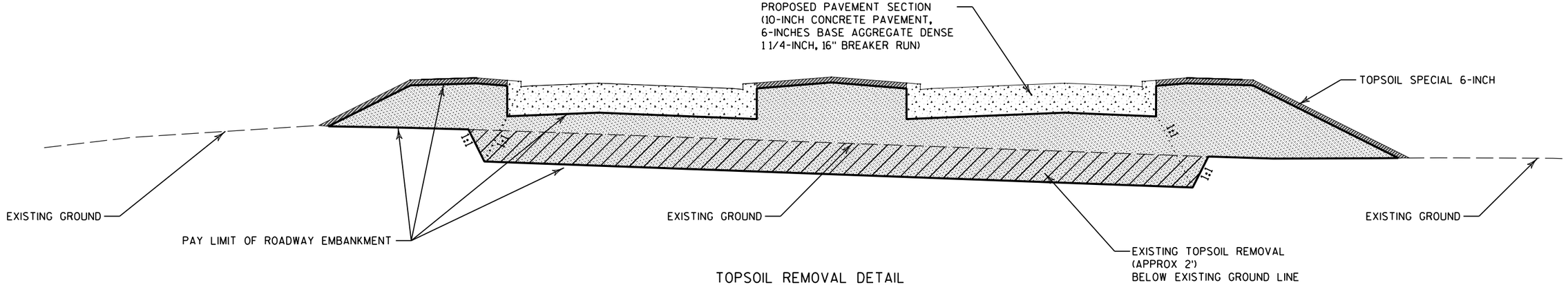
IN AREAS REQUIRING 2' OF FILL OR LESS, EBS EXCAVATION SPECIAL BELOW TOPSOIL LAYER AS DIRECTED BY THE ENGINEER, REPLACE WITH EBS BACKFILL SPECIAL.

EXISTING TOPSOIL DEPTH IS APPROXIMATELY 2 FEET, EXCEPT AS NOTED.

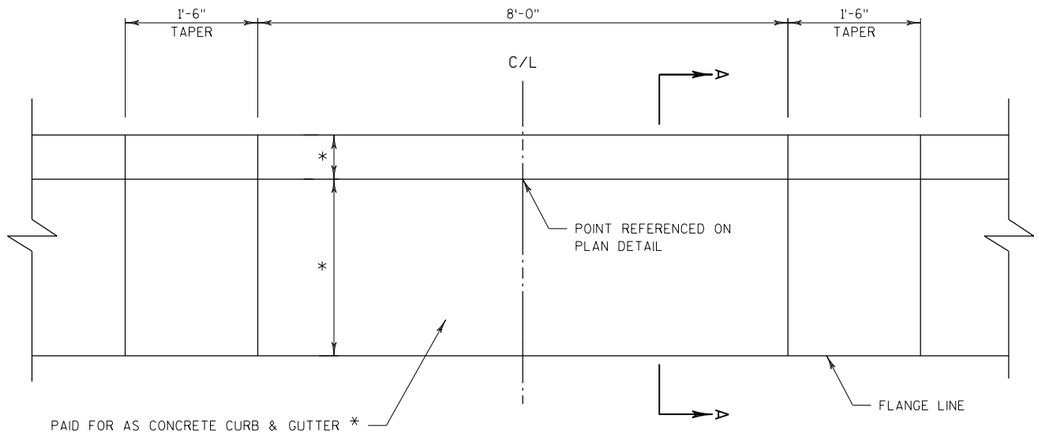
LEGEND

ROADWAY EMBANKMENT LIMITS

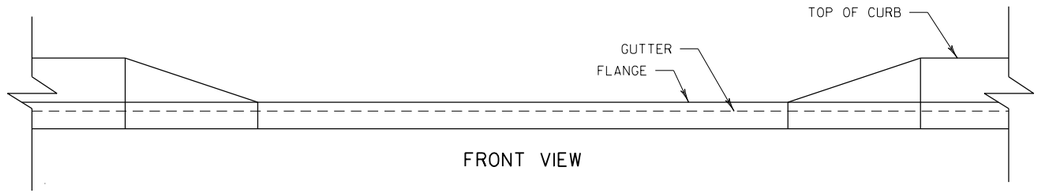
TOPSOIL REMOVAL



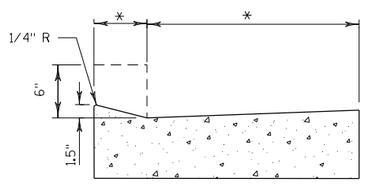
TOPSOIL REMOVAL DETAIL



PLAN VIEW



FRONT VIEW



SECTION A-A

* TYPE AND DIMENSIONS TO MATCH ADJACENT CURB AND GUTTER.

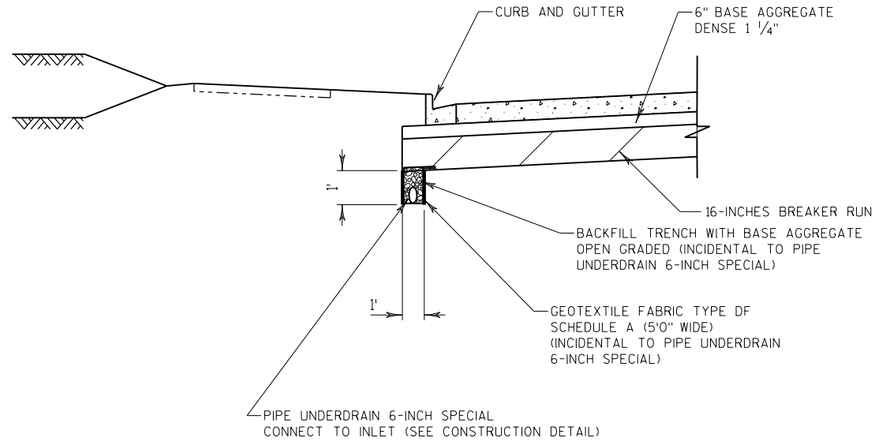
MAINTENANCE OPENING

LOCATIONS SHOWN ON PLAN DETAILS

NOTES

1) PLACE PIPE UNDERDRAIN WITHIN 50' UPSTREAM OF INLETS

2) ADJUST LATERAL LOCATION OF PIPE UNDERDRAIN AS NECESSARY TO AVOID CONFLICTS WITH THE STORM SEWER.



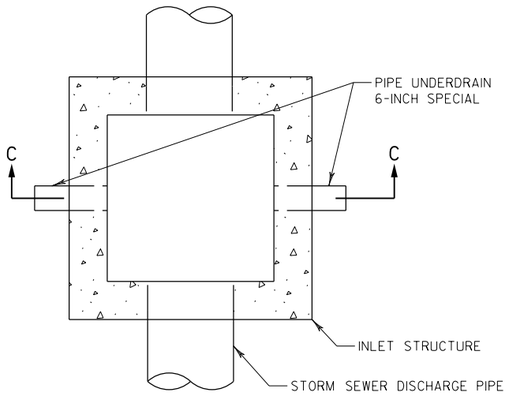
PIPE UNDERDRAIN

NOTES

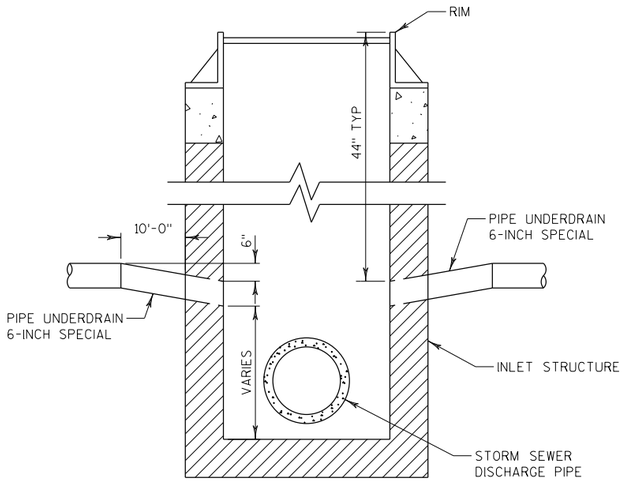
1) PROVIDE 6" DIA. OPENINGS FOR UNDERDRAIN PIPE A MINIMUM OF 44" BELOW THE RIM ELEVATION.

2) SEE TYPICAL SECTIONS AND CONSTRUCTION DETAIL FOR PIPE UNDERDRAIN LOCATIONS.

3) CONNECTION TO INLET OR MANHOLE IS INCIDENTAL TO THE PIPE UNDERDRAIN 6-INCH SPECIAL BID ITEM.

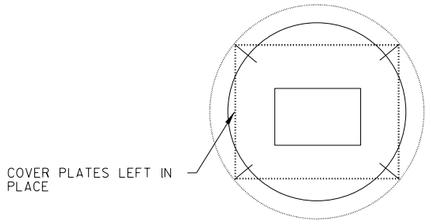


PLAN VIEW

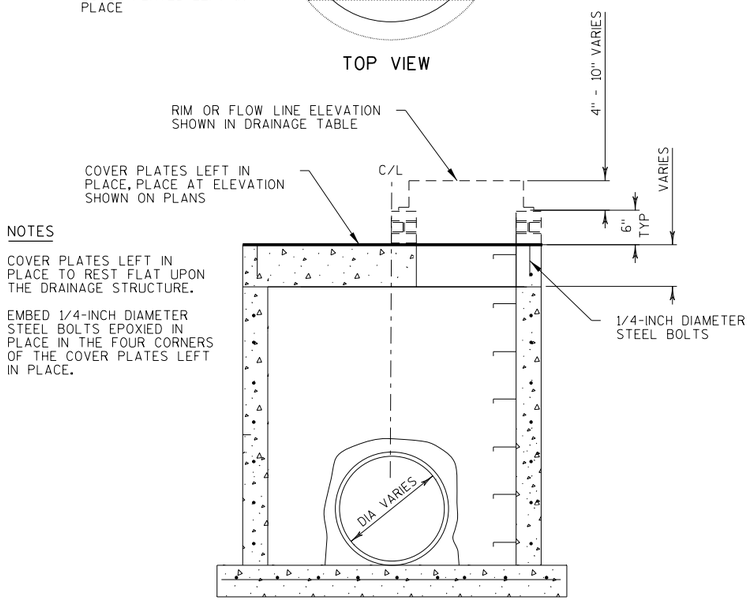


SECTION C-C

UNDERDRAIN OUTFALL AT INLET



TOP VIEW

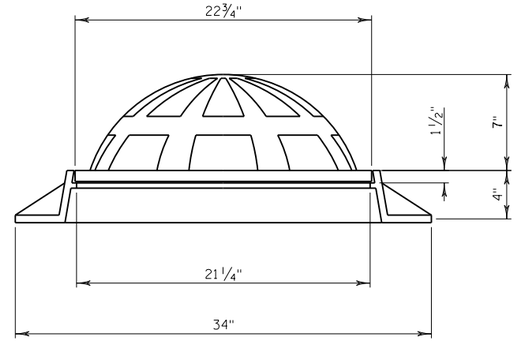


NOTES

COVER PLATES LEFT IN PLACE TO REST FLAT UPON THE DRAINAGE STRUCTURE.

EMBED 1/4-INCH DIAMETER STEEL BOLTS EPOXIED IN PLACE IN THE FOUR CORNERS OF THE COVER PLATES LEFT IN PLACE.

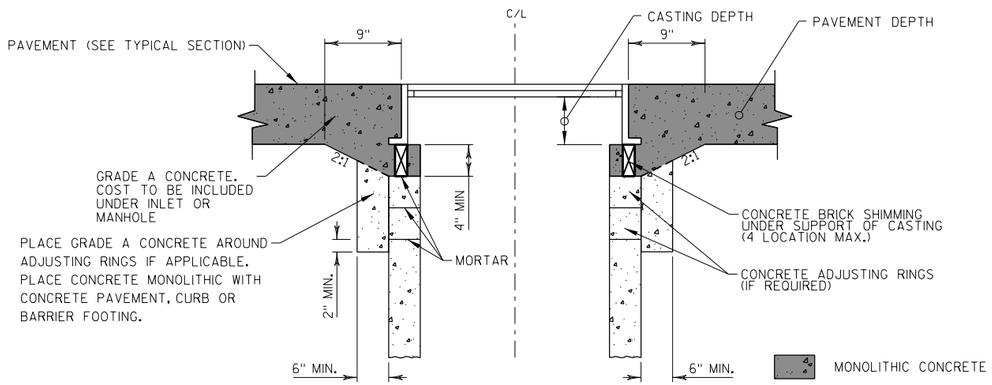
COVER PLATES LEFT IN PLACE



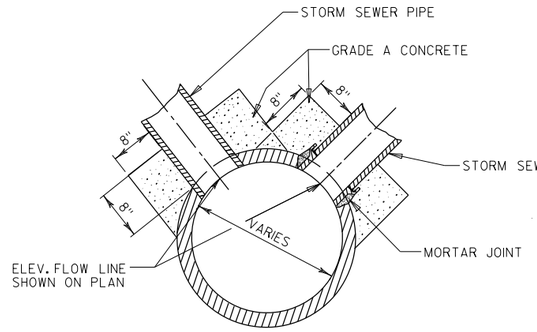
INLET COVERS BEEHIVE

NOTES

(1) PROVIDE MONOLITHIC CONCRETE SHIMMING FOR FINAL ADJUSTMENT OF DRAINAGE STRUCTURES LOCATED WITHIN THE CONCRETE CURB & GUTTER.

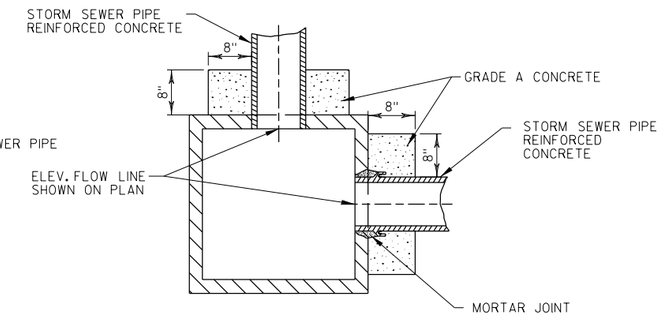


MONOLITHIC CONCRETE SHIMMING DETAIL



AT MANHOLE

INCIDENTAL TO NEW STRUCTURE AND NEW PIPE ITEMS

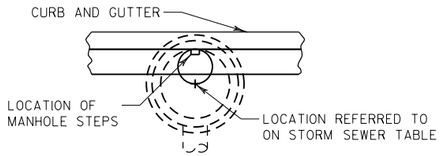


AT STORM SEWER INLET

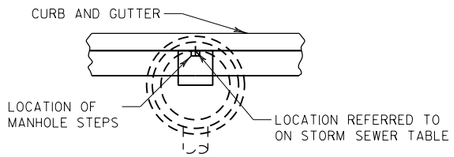
INCIDENTAL TO NEW STRUCTURE AND NEW PIPE ITEMS

STORM SEWER CONNECTION DETAIL

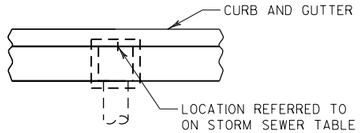
NOTE
1) LOCATION OF STRUCTURE MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
2) LOCATION AND SIZE OF STRUCTURE COVER OPENING DEPENDS ON TYPE OF CASTING. CASTING TYPES ARE SHOWN ON THE STORM SEWER TABLE.



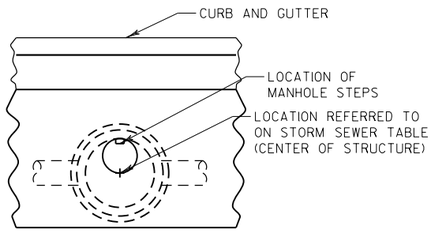
MANHOLE IN CURB AND GUTTER



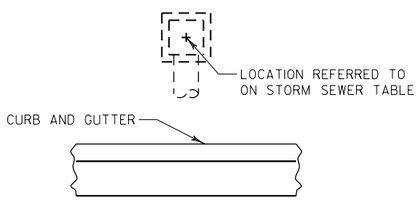
MANHOLE WITH INLET COVER IN CURB AND GUTTER



INLET IN CURB AND GUTTER

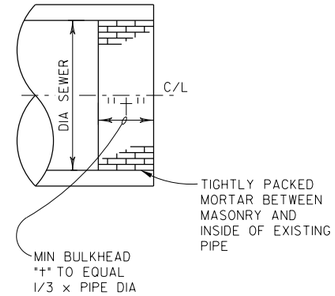


MANHOLE NOT IN CURB AND GUTTER



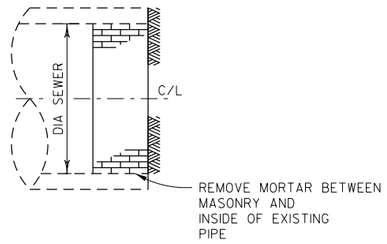
INLET NOT IN CURB AND GUTTER

STRUCTURE LOCATION DETAIL

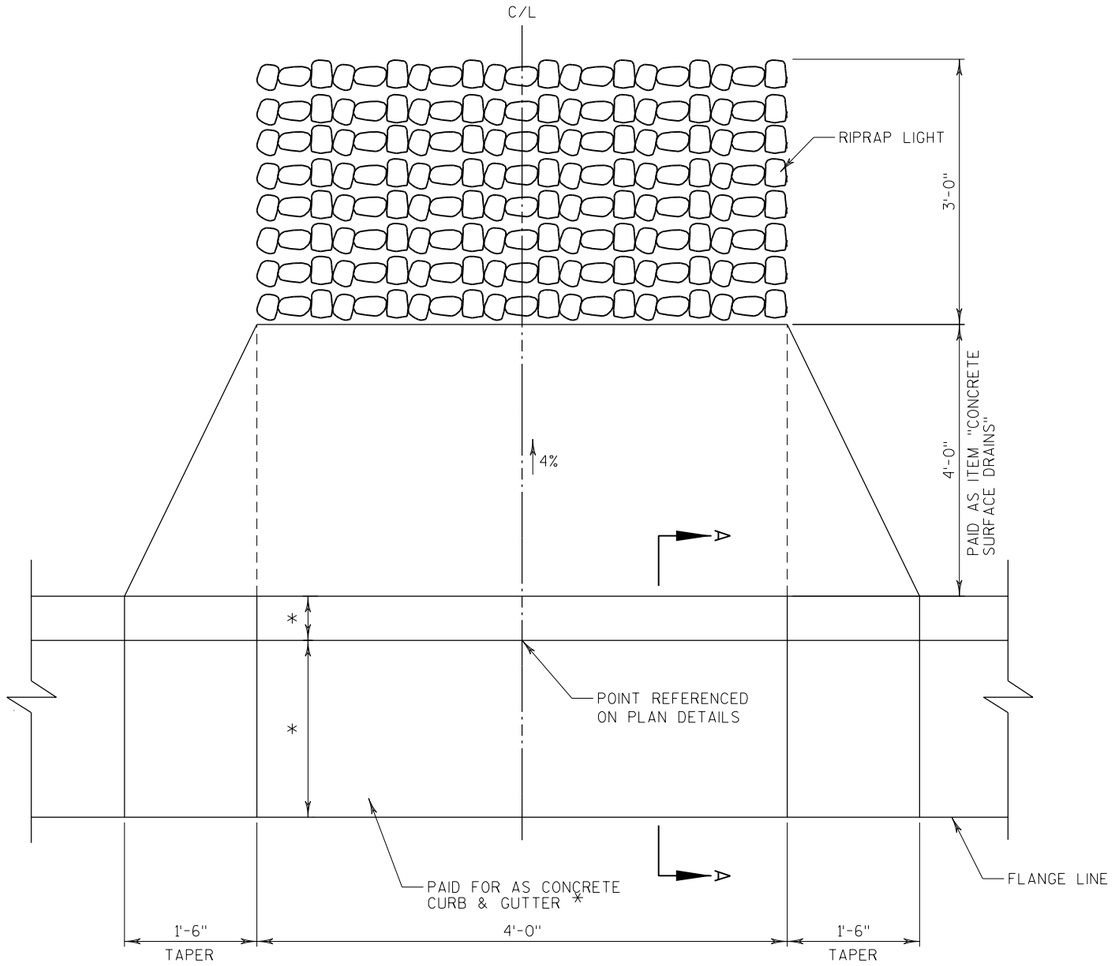


BULKHEAD PIPE MASONRY

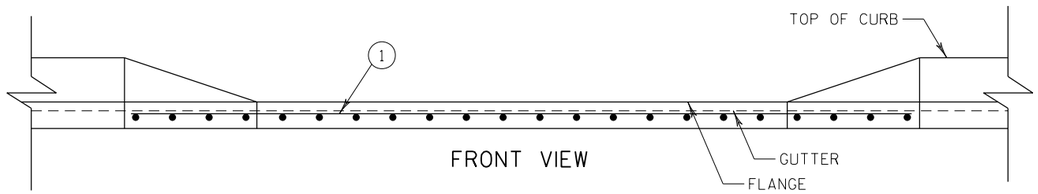
ITEM TO BE PAID FOR UNDER ITEM "SEALING PIPES"



REMOVING BULKHEAD

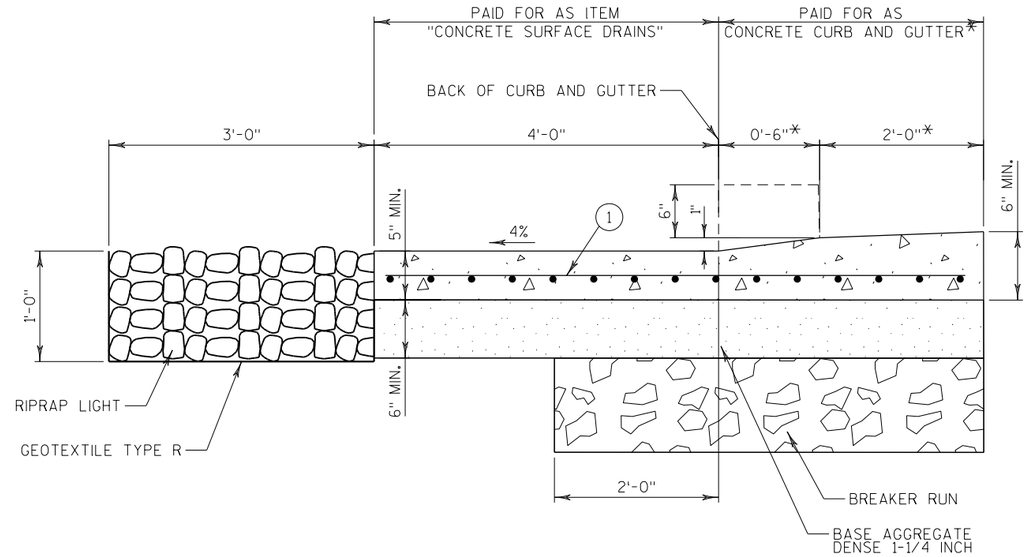


PLAN VIEW



FRONT VIEW

(1) MINIMUM REINFORCEMENT 4"X4" W3.0 X W3.0 WELDED STEEL WIRE FABRIC



END VIEW

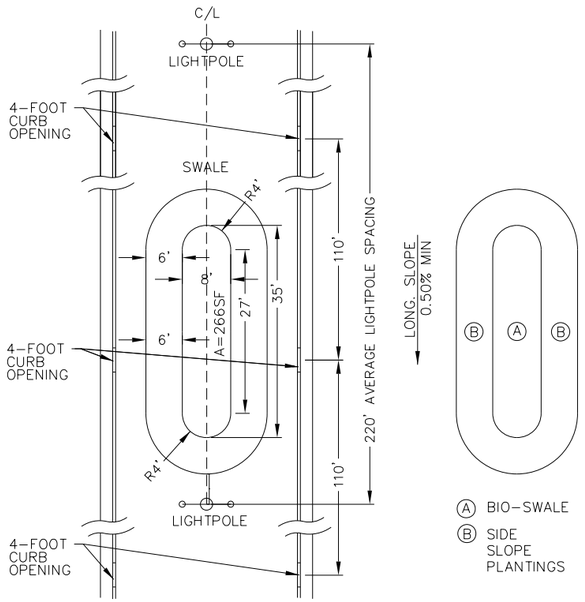
SECTION A-A

* TYPE AND DIMENSIONS TO MATCH ADJACENT CURB AND GUTTER.

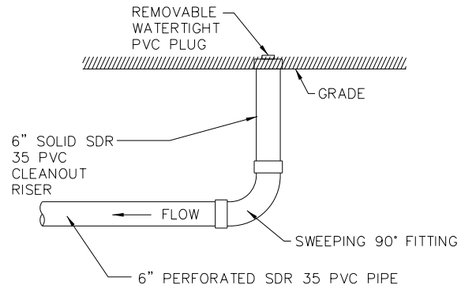
BIORETENTION CELL CURB OPENING

LOCATIONS SHOWN ON PLAN DETAILS
NOT TO SCALE

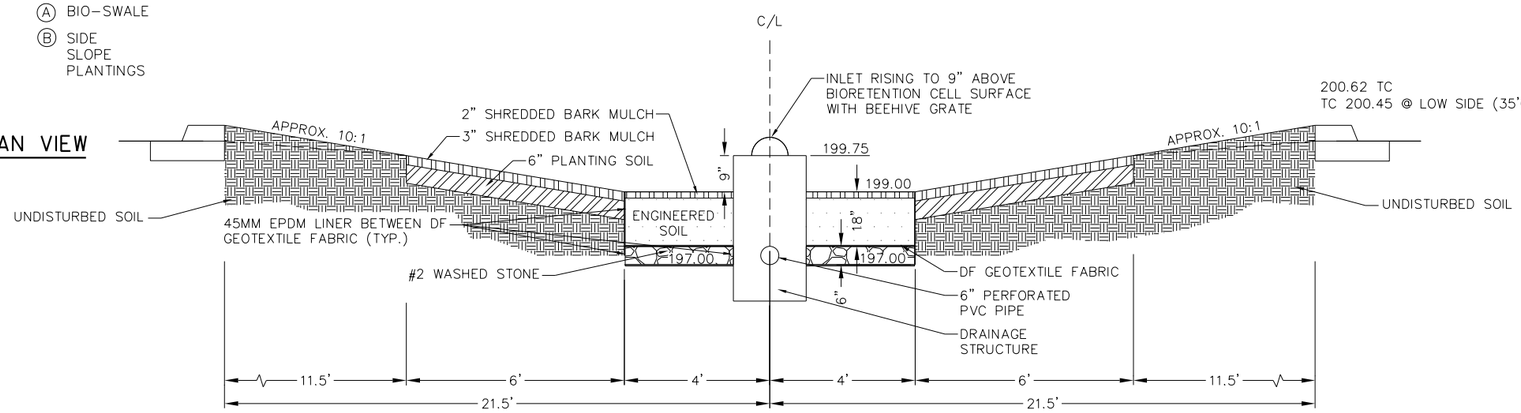
PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CONSTRUCTION DETAILS	SHEET 17	E



BIORETENTION CELL DETAIL - PLAN VIEW

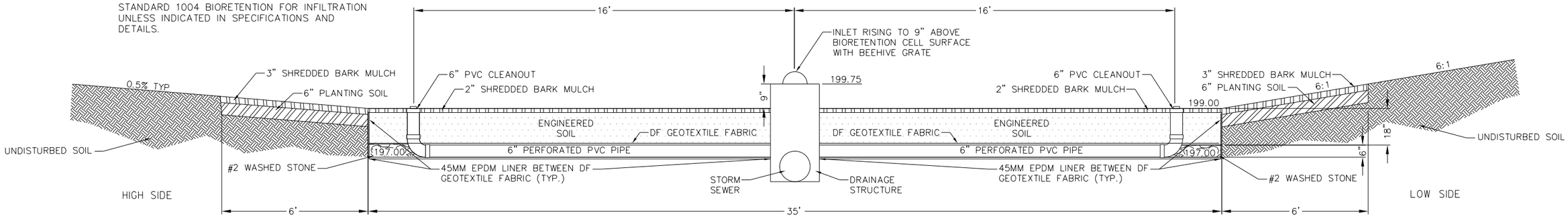


BIORETENTION CELL DETAIL - DRAINTILE CLEANOUT



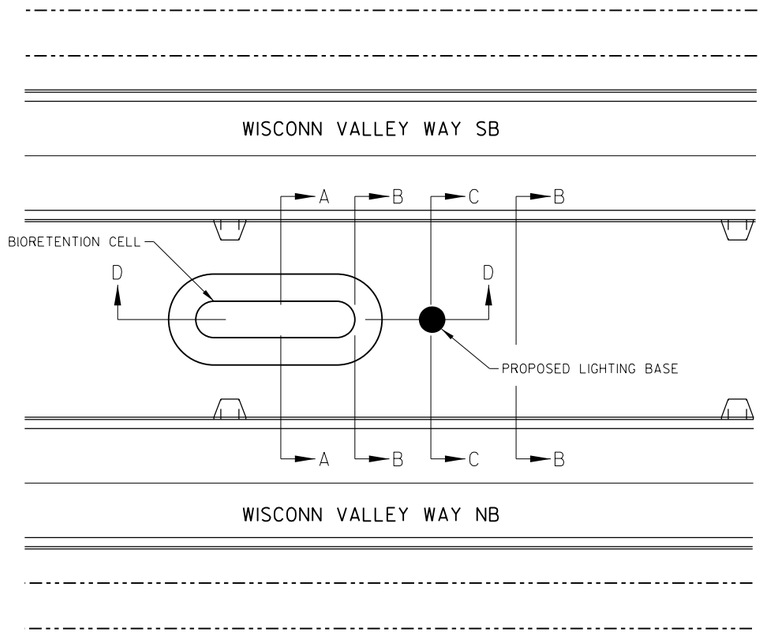
BIORETENTION CELL DETAIL - TYPICAL WIDTH SECTION

NOTE: ELEVATIONS SHOWN ARE TO SHOW RELATIONSHIP OF ONE ELEVATION POINT TO ANOTHER. ACTUAL FIELD ELEVATIONS WILL VARY CONSTRUCT PER WISCONSIN DNR TECHNICAL STANDARD 1004 BIORETENTION FOR INFILTRATION UNLESS INDICATED IN SPECIFICATIONS AND DETAILS.



BIORETENTION CELL DETAIL - TYPICAL LONG SECTION

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CONSTRUCTION DETAILS	SHEET 18	E



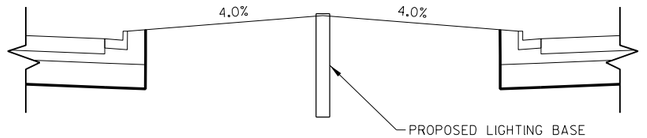
PLAN VIEW



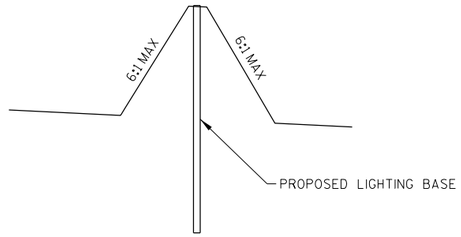
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D
(PROFILE ALONG R/L)

MEDIAN TRANSITION FROM BIOSWALE TO 4% CROWNED MEDIAN

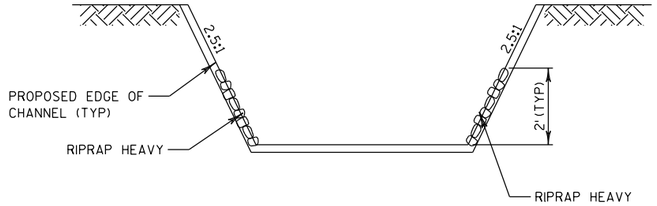
NOT TO SCALE

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CONSTRUCTION DETAILS	SHEET 19	E

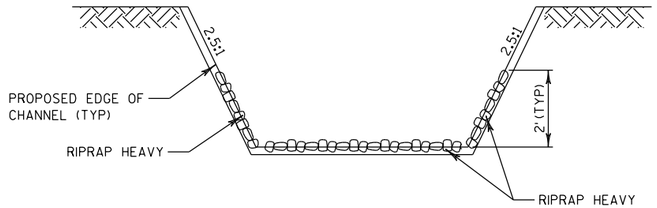
NOTE:
1) SEE STORM SEWER PLANS FOR ADDITIONAL STORM SEWER INFORMATION.

2) SEE EROSION CONTROL PLANS FOR ADDITIONAL EROSION CONTROL DETAIL.

N



TYPICAL UPSTREAM CHANNEL SECTION



TYPICAL DOWNSTREAM CHANNEL SECTION

DETENTION POND K
730
735
740
745
574
573
572
571
WISCONN VALLEY SUB
WISCONN VALLEY NB
PROPOSED R/W
PROPOSED R/W
1711
P1712
RIPRAP HEAVY
PROPOSED EDGE OF CHANNEL
STA 571+82.13
-143.21
1713
STA 571+73.79
-102.95
PROPOSED PLE
STA 571+75.05
-146.35
PROPOSED EDGE OF CHANNEL
STA 571+51.76
-107.20
RIPRAP HEAVY
PROPOSED PLE
1707
P1708
STA 570+82.69
108.38
PROPOSED R/W
PROPOSED EDGE OF CHANNEL
1709
STA 570+62.43
150.63
UNNAMED TRIBUTARY
RIPRAP HEAVY
PROPOSED R/W
STA 570+58.59
103.45
STA 570+49.14
144.51
PROPOSED EDGE OF CHANNEL
P1684
1685
1683

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CONSTRUCTION DETAIL - UNNAMED TRIBUTARY MODIFICATIONS	SHEET 20	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\021002_CD.dgn PLOT DATE : 12/19/2018 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 41

IH 94 SB

IH 94 NB

IH 94 R/L
(FOR REFERENCE ONLY)

15-INCH SSPRC
(SEE STORM SEWER PLANS)

CONCRETE CURB AND GUTTER 6-INCH SLOPED 48-INCH TYPE A

EXTEND EXISTING 24" CPRC
(SEE STORM SEWER PLANS)

EXTEND EXISTING 15" SSPRC
(SEE STORM SEWER PLANS)

RAMP NE R/L

RAMP NE

RIP RAPPED SLOPE
MEDIUM RIP RAP WITH TYPE HR FABRIC

LEVEL SPREADER (SEE CONSTRUCTION DETAIL)

LOW FLOW SWALE

DRY DETENTION AREA

FOREBAY

POND NE R/L

REMOVE EXISTING CONCRETE MASONRY ENDWALL
PLACE 60" CPRC APRON ENDWALL

RELOCATE SOUTH 60" CPRC OUTFALL LOCATION
(SEE STORM SEWER PLANS)

25' LONG SPILLWAY
(SEE DETAILS)

EAST FRONTAGE RD

SLOPE INTERCEPT (TYP.)

WETLAND BOUNDARY (TYP.)

EAST FRONTAGE RD R/L
(FOR REFERENCE ONLY)

CTH KR EB

CTH KR WB

CTH KR R/L
(FOR REFERENCE ONLY)

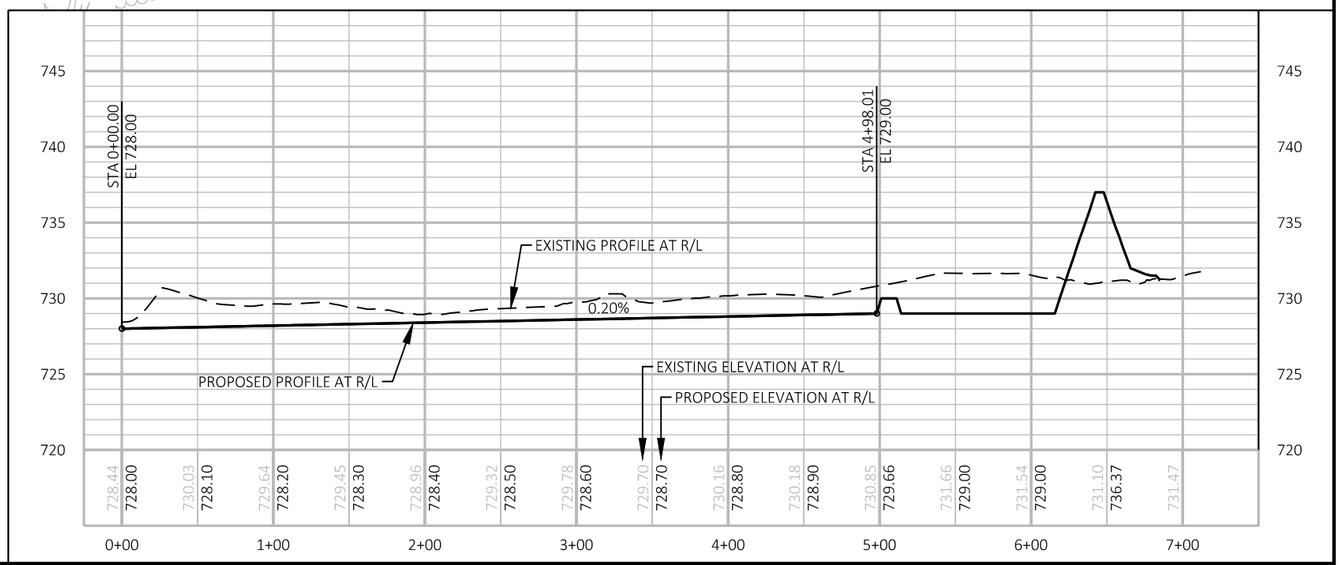
25' LONG SPILLWAY
(SEE DETAILS)

18-INCH CULVERT PIPE
POND OUTLET CONTROL
(SEE STORM SEWER PLANS)

CONSTRUCTED UNDER PROJECT I.D. 1035-03-72

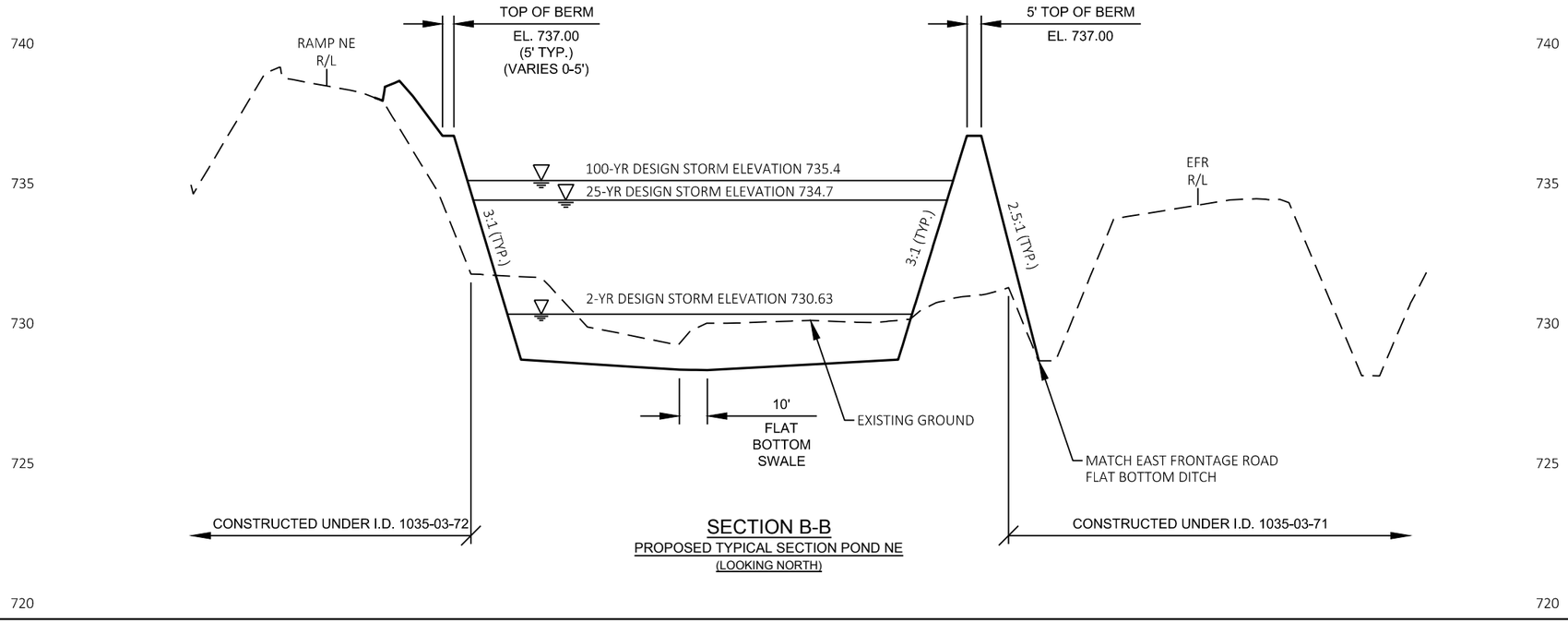
CONSTRUCTED UNDER PROJECT I.D. 1035-03-71

PROFILE VIEW OF POND NE R/L

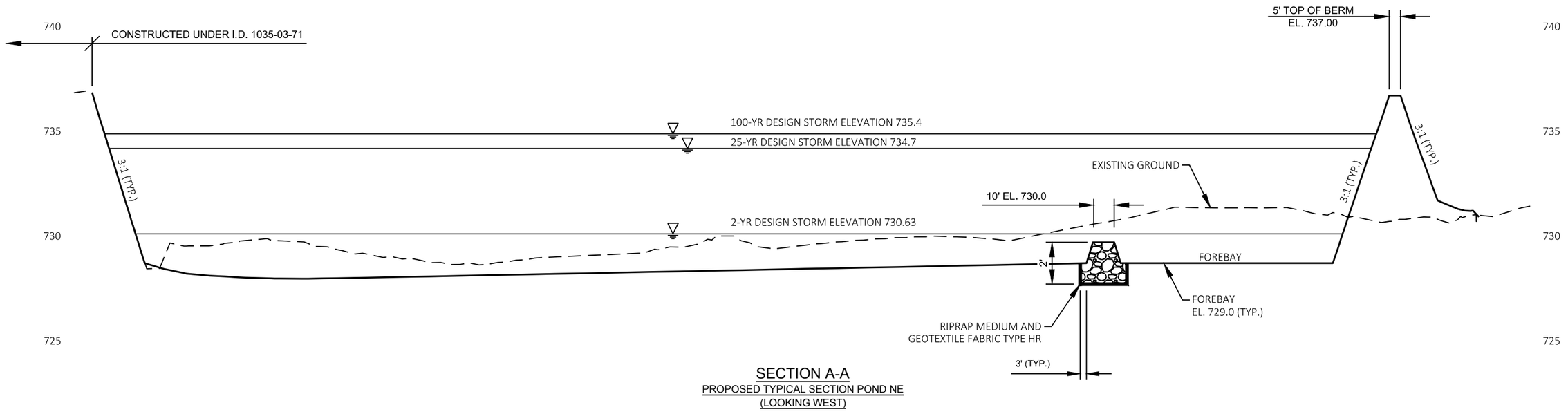


PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CONSTRUCTION DETAILS: POND NE	SHEET 21	E

FILE NAME : J:\ACTIVE\SE\1030-20-15 RACINE PACKAGE B\C3D\10302015\SHEETSPLAN\1035-03-01 CTH KR INTERCHANGE\NE POND\021001-CD.DWG
LAYOUT NAME - 01
PLOT DATE : 1/28/2019 10:52 AM
PLOT BY : CORY IHDE
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42



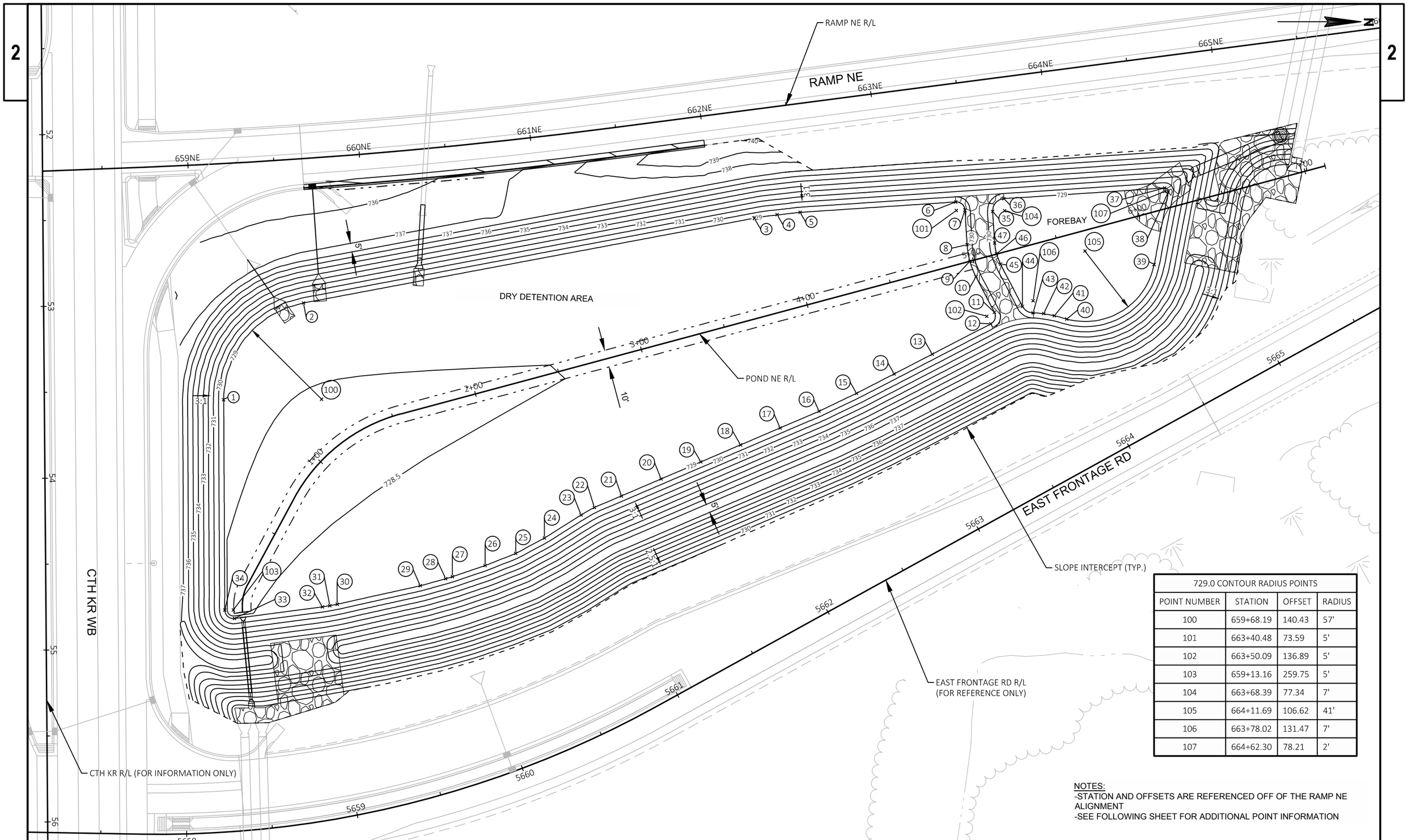
SECTION B-B
PROPOSED TYPICAL SECTION POND NE
(LOOKING NORTH)



SECTION A-A
PROPOSED TYPICAL SECTION POND NE
(LOOKING WEST)

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CONSTRUCTION DETAILS: POND NE	SHEET 22	E

FILE NAME : J:\ACTIVE\SE\1030-20-15 RACINE PACKAGE B\C3D\10302015\SHEETSPLAN\1035-03-01 CTH KR INTERCHANGE\NE POND\021001-CD.DWG
LAYOUT NAME - 02
PLOT DATE : 1/28/2019 10:28 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42



729.0 CONTOUR RADIUS POINTS			
POINT NUMBER	STATION	OFFSET	RADIUS
100	659+68.19	140.43	57'
101	663+40.48	73.59	5'
102	663+50.09	136.89	5'
103	659+13.16	259.75	5'
104	663+68.39	77.34	7'
105	664+11.69	106.62	41'
106	663+78.02	131.47	7'
107	664+62.30	78.21	2'

NOTES:
-STATION AND OFFSETS ARE REFERENCED OFF OF THE RAMP NE ALIGNMENT
-SEE FOLLOWING SHEET FOR ADDITIONAL POINT INFORMATION

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CONSTRUCTION DETAILS: POND NE	SHEET 23	E

FILE NAME : J:\ACTIVE\SE\1030-20-15 RACINE PACKAGE B\C3D\10302015\SHEETSPLAN\1035-03-01 CTH KR INTERCHANGE\NE POND\021002-CD.DWG
LAYOUT NAME - 01
PLOT DATE : 1/28/2019 10:12 AM
PLOT BY : CORY IHDE
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

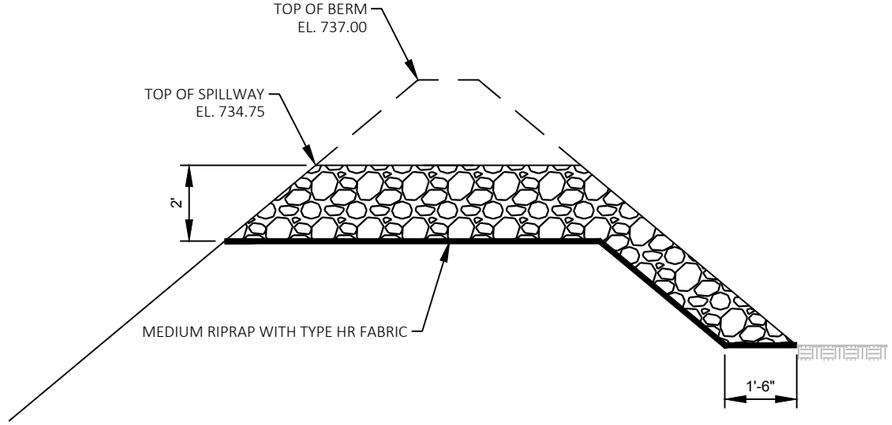
PROPOSED CONTOUR ELEVATION 729.0		
POINT NUMBER	Y COORDS	X COORDS
1	165204.664	594634.2553
2	165251.127	594577.9485
3	165513.523	594528.5968
4	165526.813	594526.5046
5	165540.204	594525.2070
6	165630.815	594519.1422
7	165636.139	594523.8168
8	165637.412	594544.0411
9	165639.028	594553.6450
10	165642.589	594562.7098
11	165653.287	594583.3581

PROPOSED CONTOUR ELEVATION 729.0		
POINT NUMBER	Y COORDS	X COORDS
12	165651.148	594590.0978
13	165617.122	594607.7280
14	165594.943	594619.2204
15	165573.047	594630.5002
16	165551.228	594640.9465
17	165528.596	594650.6443
18	165505.504	594660.5392
19	165482.412	594670.4341
20	165459.319	594680.3290
21	165436.239	594690.2188
22	165420.437	594696.9769

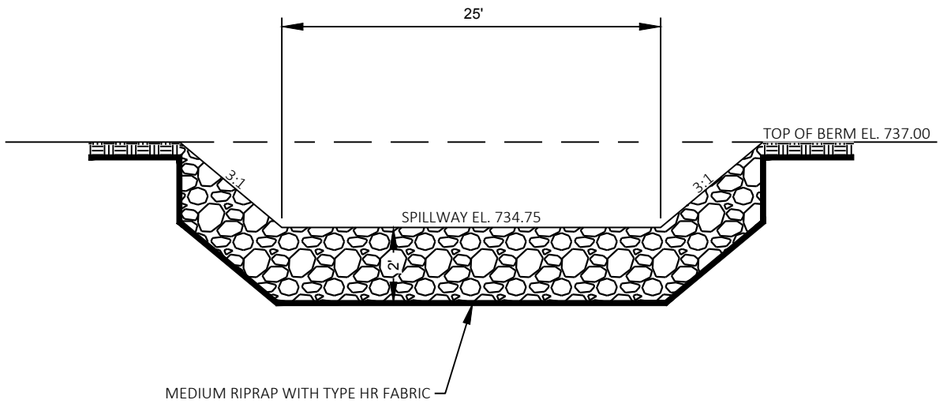
PROPOSED CONTOUR ELEVATION 729.0		
POINT NUMBER	Y COORDS	X COORDS
23	165412.727	594701.3461
24	165391.360	594714.7152
25	165374.632	594723.6676
26	165356.826	594730.7653
27	165337.794	594737.2309
28	165333.888	594738.4205
29	165319.075	594742.5155
30	165270.708	594753.2711
31	165266.429	594754.1250
32	165262.117	594754.7915
33	165210.940	594761.5627

PROPOSED CONTOUR ELEVATION 729.0		
POINT NUMBER	Y COORDS	X COORDS
34	165205.284	594756.6313
35	165652.326	594524.6904
36	165658.844	594517.2661
37	165752.419	594511.0029
38	165754.516	594513.3823
39	165746.265	594555.5677
40	165695.415	594587.3012
41	165688.150	594585.3542
42	165682.028	594584.1256
43	165675.799	594583.6855
44	165669.632	594579.9060

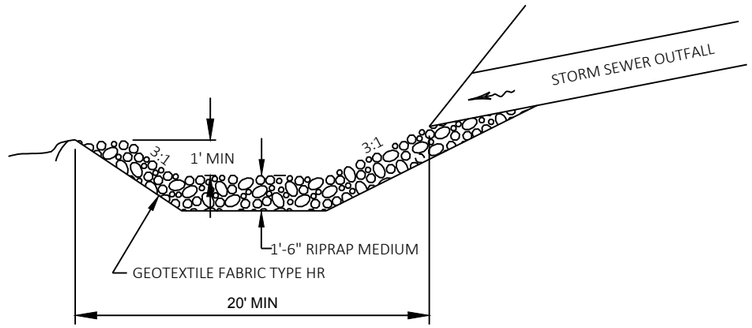
PROPOSED CONTOUR ELEVATION 729.0		
POINT NUMBER	Y COORDS	X COORDS
45	165656.884	594555.3029
46	165654.543	594549.3433
47	165653.480	594543.0292



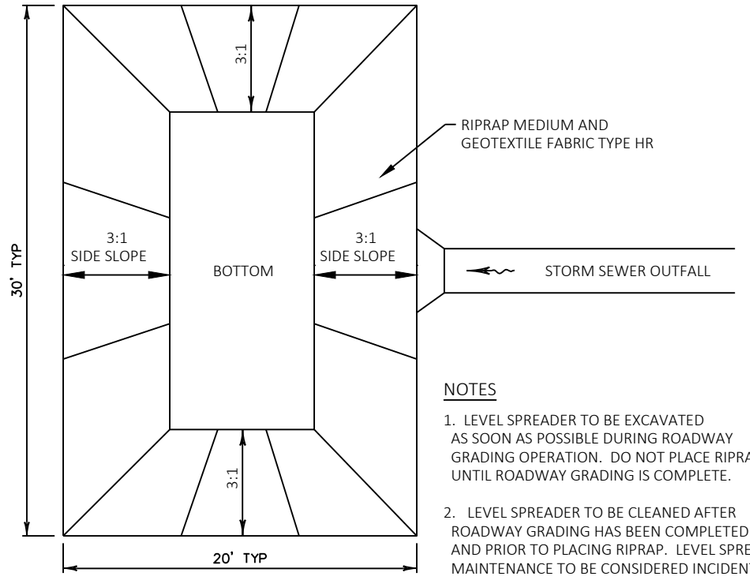
TYPICAL SPILLWAY SECTION



TYPICAL LONGITUDINAL SPILLWAY PROFILE



SECTION VIEW

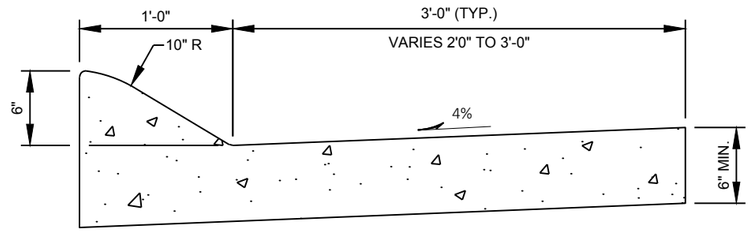


NOTES

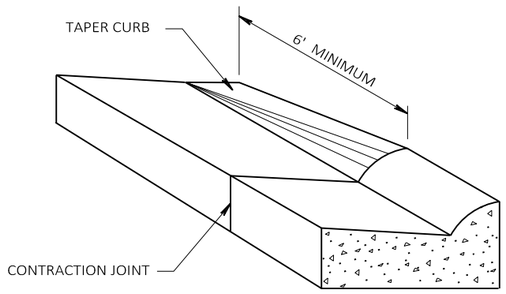
1. LEVEL SPREADER TO BE EXCAVATED AS SOON AS POSSIBLE DURING ROADWAY GRADING OPERATION. DO NOT PLACE RIPRAP UNTIL ROADWAY GRADING IS COMPLETE.
2. LEVEL SPREADER TO BE CLEANED AFTER ROADWAY GRADING HAS BEEN COMPLETED AND PRIOR TO PLACING RIPRAP. LEVEL SPREADER MAINTENANCE TO BE CONSIDERED INCIDENTAL.
3. CONSTRUCTION OF LEVEL SPREADER TO BE PAID AS UNDER EARTHWORK, RIPRAP MEDIUM, AND GEOTEXTILE FABRIC TYPE HR.

PLAN VIEW

PERMANENT STORM SEWER OUTFALL LEVEL SPREADER DETAIL

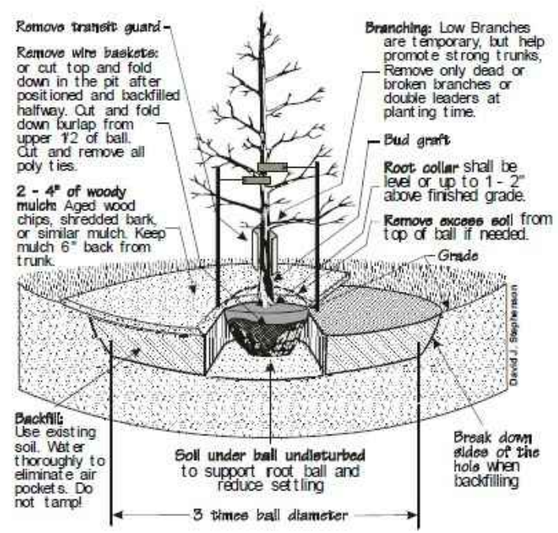


CONCRETE CURB AND GUTTER 6-INCH SLOPED 48-INCH TYPE A



DETAIL OF CURB & GUTTER TERMINI

Proper Tree Planting Diagram

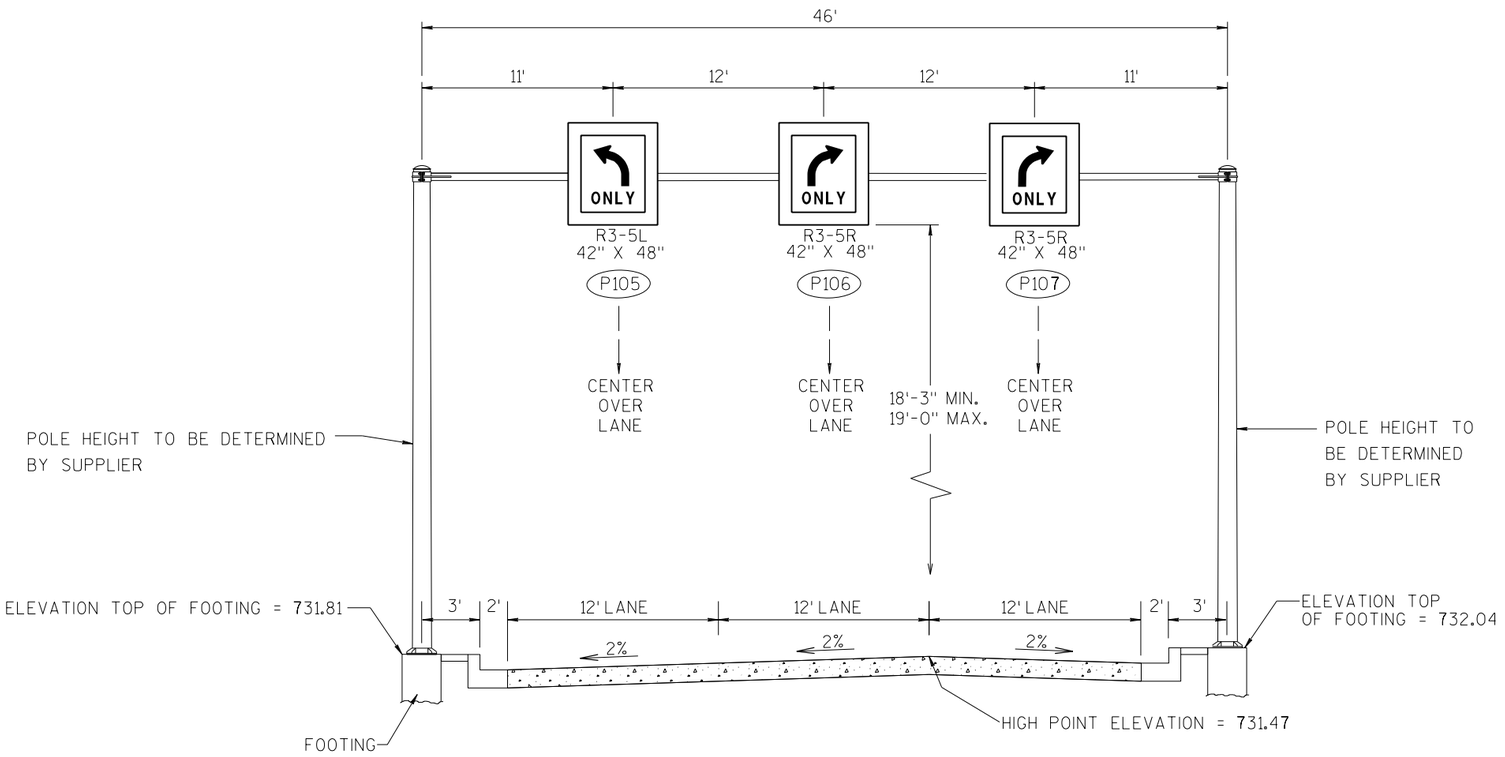


Stake only if you have to. Use 2-3"-wide webbing straps and secure to stakes with heavy gauge wire. The wire should be able to stick straight out from the stake and hold the webbing strap up, preventing it from sliding down the tree. Do not stake

LEGEND

(PXXX) DENOTES SIGN NUMBER

NOTE: FOOTINGS SHALL BE PER STANDARD DETAIL DRAWING, "36-INCH DIAMETER FULL SPAN OVERHEAD SIGN SUPPORT BASE". FOOTINGS ARE INCIDENTAL TO OVERHEAD SIGN SUPPORT.



OVERHEAD SIGN SUPPORT DETAIL
S-51-612
WISCONN VALLEY WAY SOUTHBOUND AT CTH KR
STA 503+12
SEE SIGNING PLAN

ALLOWABLE DESIGN STRESSES	
CONCRETE MASONRY	FC=3,500 PSI
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	FY=60,000 PSI
FOUNDATION DATA	
ALLOWABLE SOIL BEARING PRESSURE = 3,000 PSF	

NOTE, CONTRACTOR SHALL:
1) SUBMIT SHOP DRAWINGS OF OVERHEAD SIGN SUPPORT.

2) PROVIDE DESIGN CALCULATIONS.

3) SHOW SIGNS ON SHOP DRAWINGS.

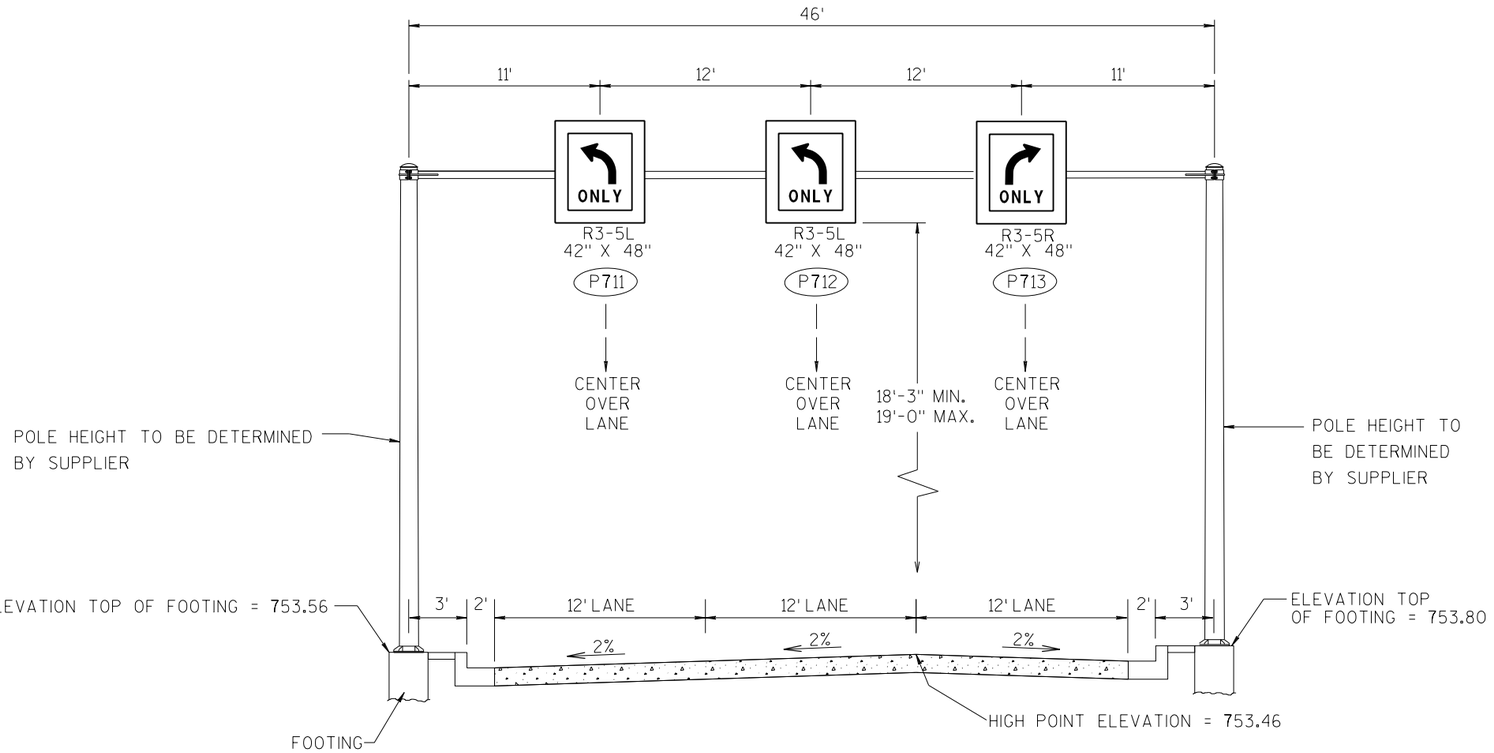
4) INSTALL SIGNS OR SIGN BLANKS ON OVERHEAD SIGN SUPPORT AT THE TIME OF ERECTION AS SPECIFIED IN STANDARD SPEC 641.3.1.4.

GENERAL NOTES

1. DRAWING NOT TO SCALE.
2. THE SIGN STRUCTURE SHALL BE DESIGNED TO SUPPORT THE SIGNS SHOWN.
3. DESIGN ACCORDING TO AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS". 6TH EDITION & INTERIM REVISIONS FATIGUE CATEGORY 1 CANTILEVERS.
4. WIND VELOCITY PER WISDOT STANDARD SPECIFICATIONS.
5. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3" CLEAR UNLESS DETAILED OTHERWISE.
6. 6 ANCHOR RODS MINIMUM PER STANDARD DETAIL DRAWING. DESIGN STRUCTURE BASE PLATE CONNECTION TO ACCOMMODATE.
7. MOUNTING BRACKETS FOR TYPE II SIGNS TO BE PER APPROVED PRODUCT LIST FOR ATTACHMENT OF SIGNS TO OVERHEAD SIGN SUPPORT.
8. I.D. PLAQUE INCIDENTAL TO OVERHEAD SIGN SUPPORT PER STANDARD SPEC 641.3.1.4.

LEGEND

(PXXX) DENOTES SIGN NUMBER



OVERHEAD SIGN SUPPORT DETAIL
S-51-613
WISCONN VALLEY WAY NORTHBOUND AT STH 11
STA 603+57
SEE SIGNING PLAN

NOTE: FOOTINGS SHALL BE PER STANDARD DETAIL DRAWING, "36-INCH DIAMETER FULL SPAN OVERHEAD SIGN SUPPORT BASE". FOOTINGS ARE INCIDENTAL TO OVERHEAD SIGN SUPPORT.

ALLOWABLE DESIGN STRESSES	
CONCRETE MASONRY	FC=3,500 PSI
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	FY=60,000 PSI
FOUNDATION DATA	
ALLOWABLE SOIL BEARING PRESSURE = 3,000 PSF	

NOTE, CONTRACTOR SHALL:

1) SUBMIT SHOP DRAWINGS OF OVERHEAD SIGN SUPPORT.

2) PROVIDE DESIGN CALCULATIONS.

3) SHOW SIGNS ON SHOP DRAWINGS.

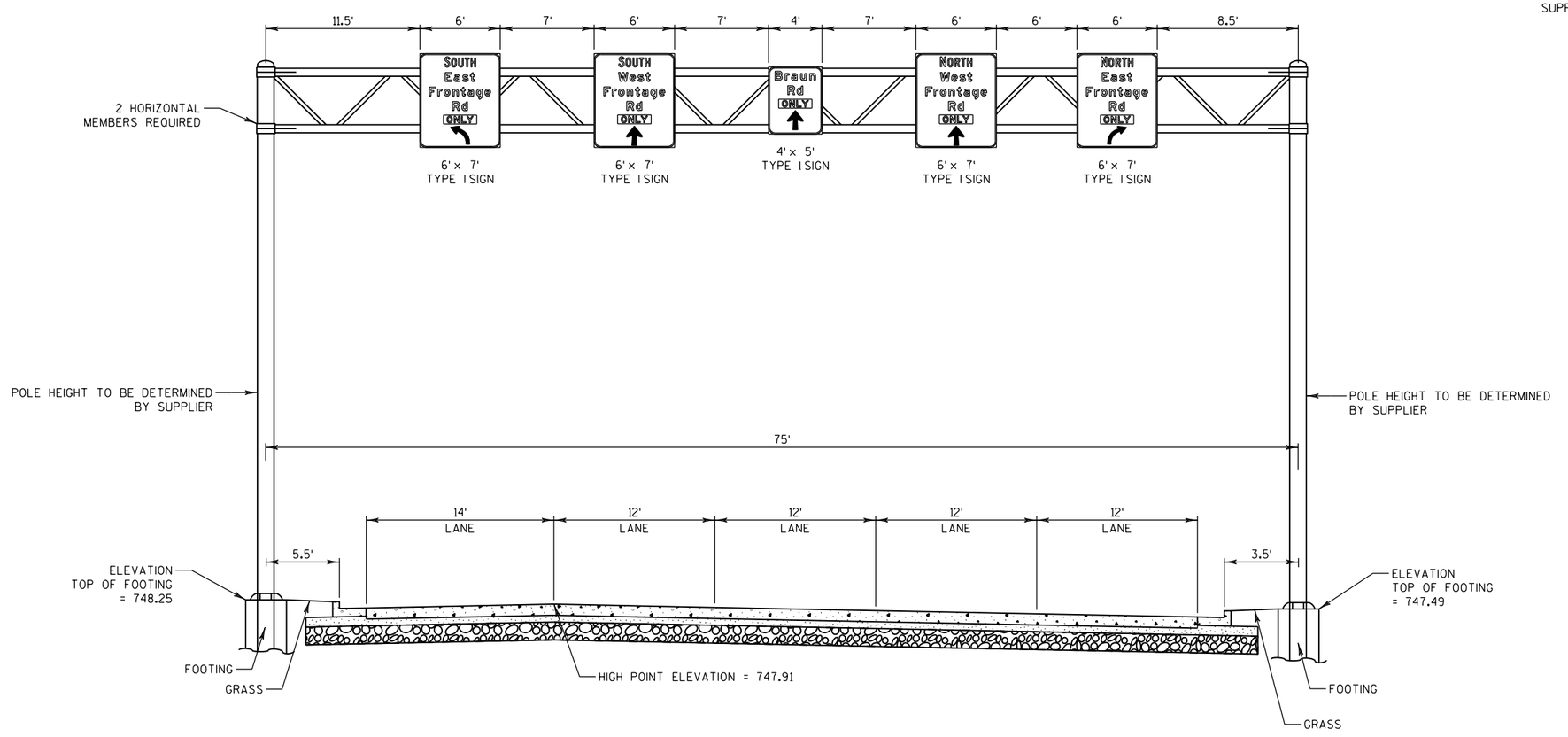
4) INSTALL SIGNS OR SIGN BLANKS ON OVERHEAD SIGN SUPPORT AT THE TIME OF ERECTION AS SPECIFIED IN STANDARD SPEC 641.3.1.4.

GENERAL NOTES

1. DRAWING NOT TO SCALE.
2. THE SIGN STRUCTURE SHALL BE DESIGNED TO SUPPORT THE SIGNS SHOWN.
3. DESIGN ACCORDING TO AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS". 6TH EDITION & INTERIM REVISIONS FATIGUE CATEGORY 1 CANTILEVERS.
4. WIND VELOCITY PER WISDOT STANDARD SPECIFICATIONS.
5. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3" CLEAR UNLESS DETAILED OTHERWISE.
6. 6 ANCHOR RODS MINIMUM PER STANDARD DETAIL DRAWING. DESIGN STRUCTURE BASE PLATE CONNECTION TO ACCOMMODATE.
7. MOUNTING BRACKETS FOR TYPE II SIGNS TO BE PER APPROVED PRODUCT LIST FOR ATTACHMENT OF SIGNS TO OVERHEAD SIGN SUPPORT.
8. I.D. PLAQUE INCIDENTAL TO OVERHEAD SIGN SUPPORT PER STANDARD SPEC 641.3.1.4.

2

NOTE: FOOTING SHALL BE PER STANDARD DETAIL DRAWING, 36-INCH DIAMETER FULL SPAN OVERHEAD SIGN SUPPORT BASE & INCIDENTAL TO STRUCTURE



OVERHEAD SIGN SUPPORTS DETAIL
S-51-611
BRAUN ROAD
@ EAST FRONTAGE ROAD
(SEE SIGNING PLAN FOR LOCATION)

IBEAMS - W5X3.7 IBEAMS FOR MOUNTING SIGNS ARE INCIDENTAL TO TYPE I SIGNS

NOTE, CONTRACTOR SHALL:

1. SUBMIT SHOP DRAWINGS OF OVERHEAD SIGN SUPPORT TO TOM HEYDEL, WISDOT TRAFFIC, & BUREAU OF STRUCTURES.
2. PROVIDE DESIGN CALCULATIONS.
3. SHOW SIGNS ON SHOP DRAWINGS.
4. I.D. PLACQUE INCIDENTAL TO OVERHEAD SIGN SUPPORT PER STANDARD SPEC 641.3.1.4.
5. 6 ANCHOR RODS MINIMUM PER STANDARD DETAIL DRAWING. DESIGN STRUCTURE BASE PLATE CONNECTION TO ACCOMODATE.
6. REFER TO SIGN PLATE A4-7.4 FOR ATTACHMENT OF SIGNS TO OVERHEAD SIGN SUPPORT.
7. INSTALL SIGNS ON SIGN BLANKS ON OVERHEAD SIGN SUPPORTS AT THE TIME OF ERECTION AS SPECIFIED IN STANDARD SPEC 641.3.1.4.

ALLOWABLE DESIGN STRESSES

CONCRETE MASONRY	FC = 3500 PSI
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	FY = 60,000 PSI

FOUNDATION DATA

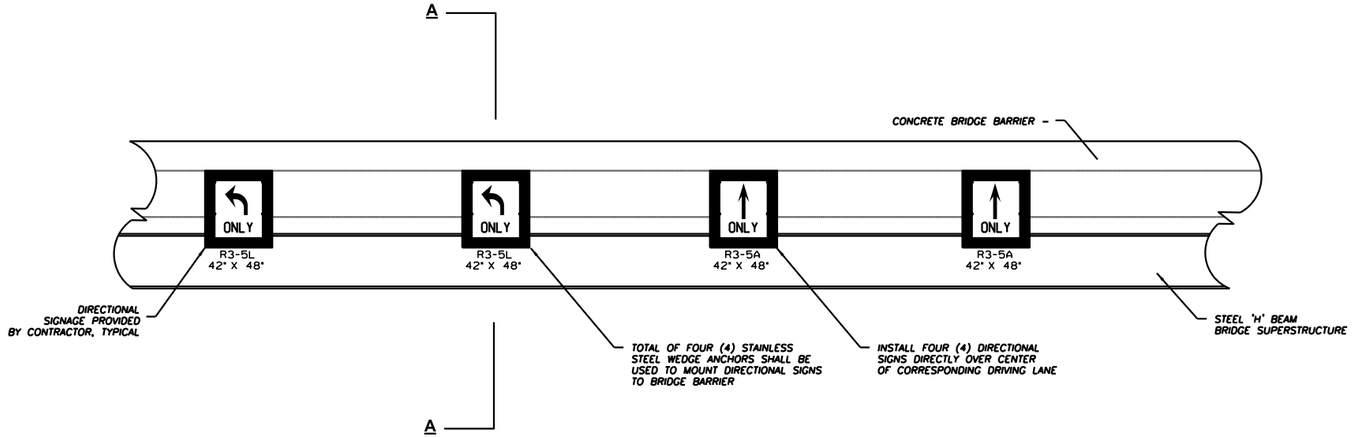
ALLOWABLE SOIL BEARING PRESSURE = 3000 PSF

GENERAL NOTES:

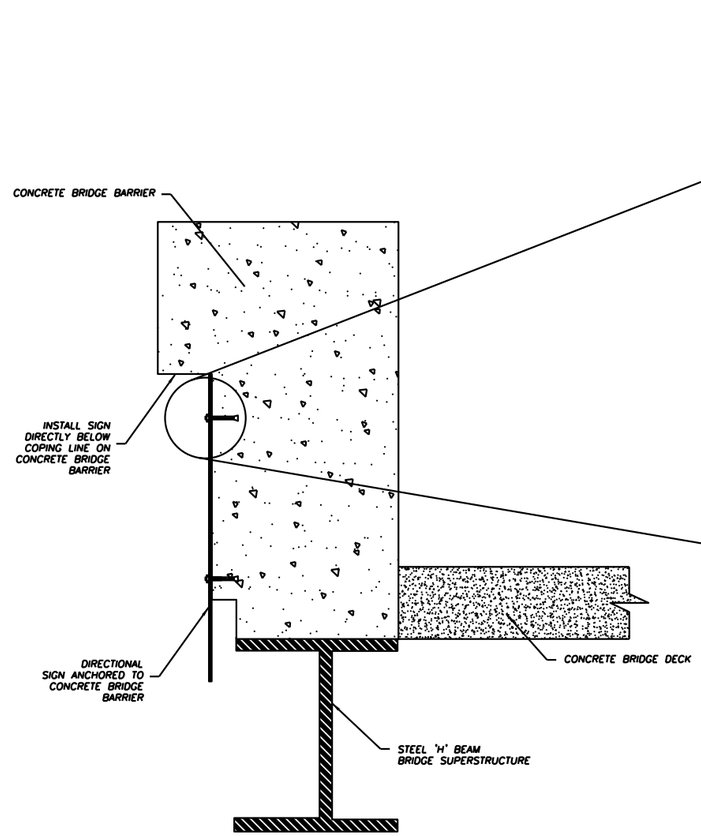
1. DRAWING NOT TO SCALE.
2. DESIGN ACCORDING TO AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 6TH EDITION & INTERIM REVISIONS FATIGUE CATEGORY I CANTILEVERS.
3. THE SIGN STRUCTURES SHALL BE DESIGNED TO SUPPORT THE SIGNS SHOWN.
4. WIND VELOCITY PER WISDOT STD SPECIFICATIONS.
5. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3" CLEAR UNLESS DETAILED OTHERWISE.

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CONSTRUCTION DETAILS	SHEET 29	E

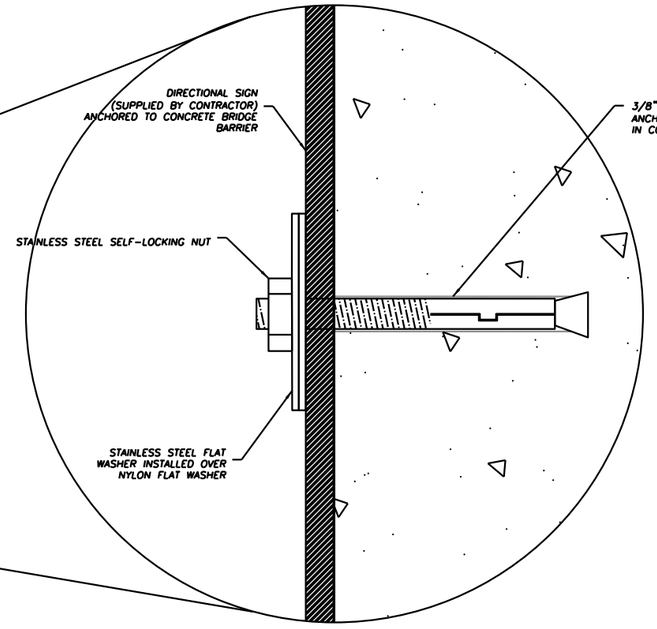
2



DIRECTIONAL SIGN MOUNTING ON BRIDGE
N.T.S.

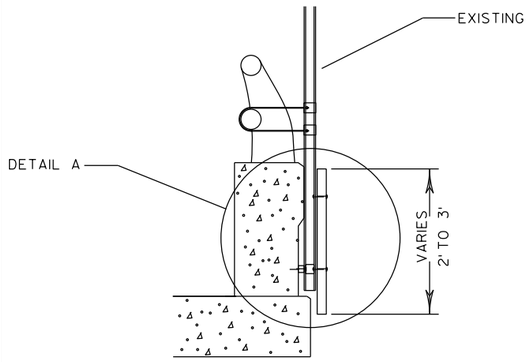


SECTION A-A
N.T.S.

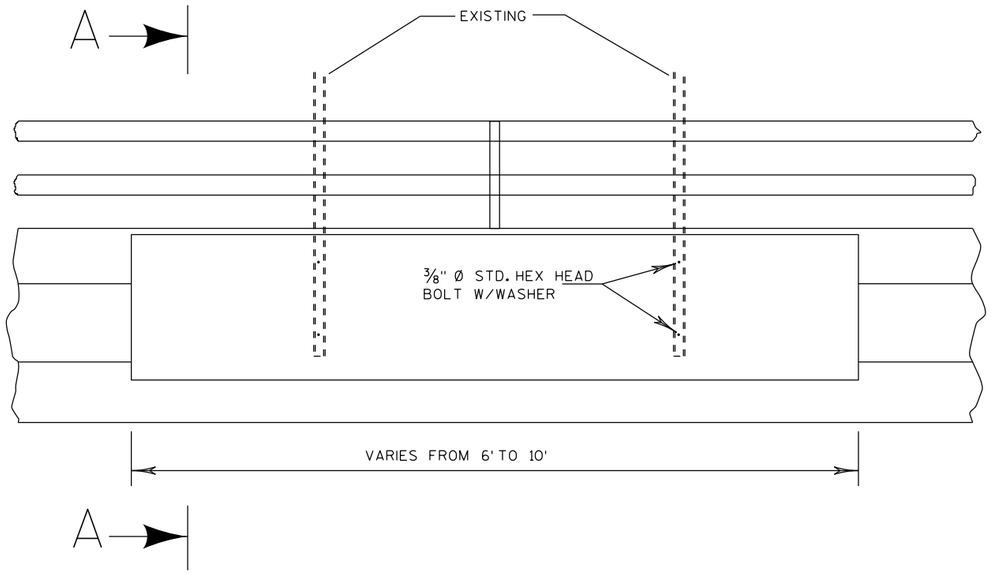


ANCHOR DETAIL
N.T.S.

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	SIGN MOUNTING DETAIL ON BRIDGE	SHEET 30	E



SECTION A-A
SIDE VIEW

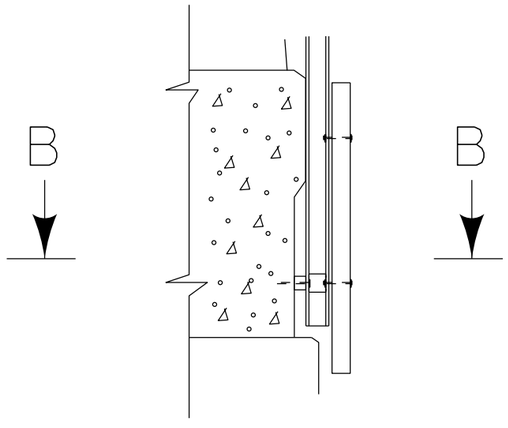


FRONT VIEW

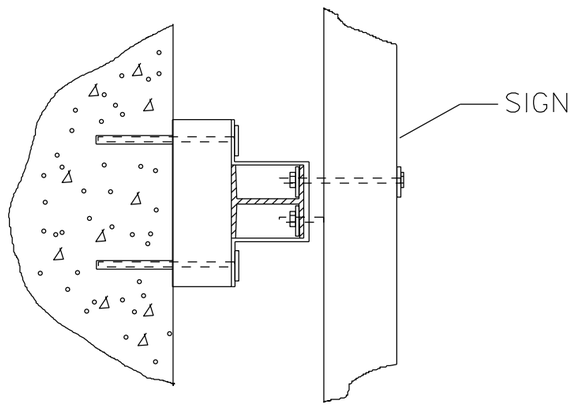
NOTES:

PROVIDE NEW BOLTS.

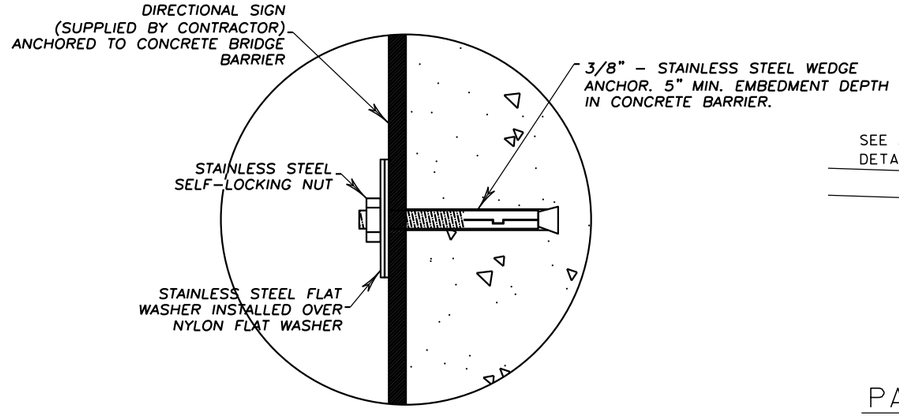
MOUNTING DETAIL COSTS ARE INCIDENTAL TO PAY ITEM "TYPE II SIGNS, REFLECTIVE".



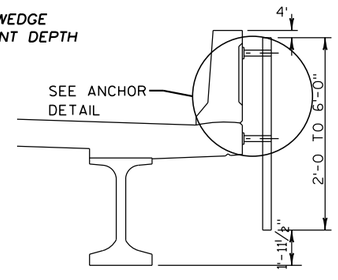
DETAIL A



SECTION B-B
TOP VIEW

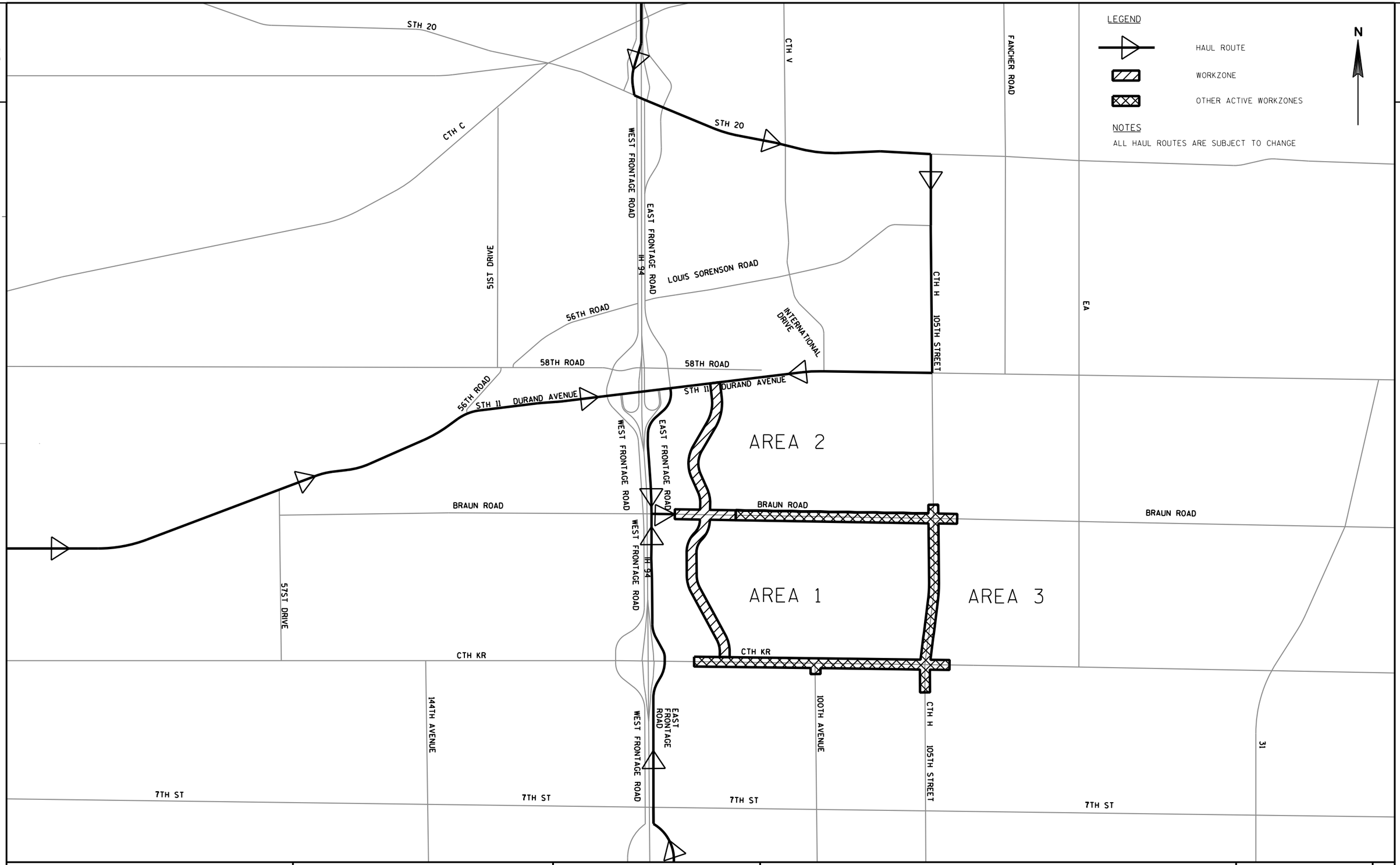


ANCHOR DETAIL
N.T.S.



PARAPET OPTION
WITHOUT RAIL

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	SIGN MOUNTING DETAIL ON BRIDGE	SHEET 31	E



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CONSTRUCTION DETAILS: HAUL ROUTES	SHEET 32	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\021004_CD.DGN PLOT DATE : 1/18/2019 PLOT BY : jarndt PLOT NAME : PLOT SCALE : 1:3200

WISDOT/CADDS SHEET 42

2

N

WISCONN VALLEY WAY

558

557

BRAUN ROAD

68BRW

69BRW

70BRW

71BR

68BRE

BRW+42.42
79.02' LT
742.01

BRW+34.14
84.63' LT
742.16

BRW+29.14
78.95' LT
742.27

BRW+35.76
71.45' LT
742.16

BRW+42.14
67.13' LT
741.78

BRW+47.75
75.41' LT
741.76

BRW+48.63
74.82' LT
741.74

TYPE 3

BRW+67.84
61.81' LT
742.44

BRW+70.42
60.06' LT
742.49

BRW+74.24
57.47' LT
642.59

BRW+78.63
54.50' LT
742.67

BRW+85.73
54.50' LT
742.47

BRW+64.81
51.78' LT
742.51

BRW+68.63
49.19' LT
742.62

BRW+86.02
44.50' LT
742.57

BRW+68.63
44.50' LT
742.67

BRW+68.63
38.50' LT
742.55

TYPE 6

BRW+78.63
44.50' LT
742.77

BRW+78.63
38.50' LT
742.60

BRW+15.20
54.50' LT
742.61

BRW+22.20
54.50' LT
742.67

TYPE 5

BRW+22.20
44.50' LT
742.77

BRW+15.20
44.50' LT
742.71

BRW+40.29
94.39' LT
743.21

BRW+32.90
87.64' LT
743.06

BRW+46.05
89.49' LT
743.32

BRW+28.69
81.19' LT
742.81

BRW+40.59
81.11' LT
743.21

BRW+37.07
75.72' LT
742.89

BRW+36.49
74.83' LT
742.87

TYPE 3

BRW+11.28
54.50' LT
743.46

BRW+06.70
54.50' LT
743.41

BRW+99.20
54.50' LT
743.07

BRW+12.86
56.92' LT
743.30

BRW+23.22
54.49' LT
743.39

BRW+99.20
44.50' LT
743.17

BRW+21.24
51.45' LT
743.44

BRW+19.66
49.04' LT
743.56

BRW+06.70
44.50' LT
743.41

BRW+06.70
38.80' LT
743.30

BRW+16.70
44.50' LT
743.51

BRW+16.70
39.05' LT
743.34

TYPE 6

70BRE+06.65
45.00' LT
743.83

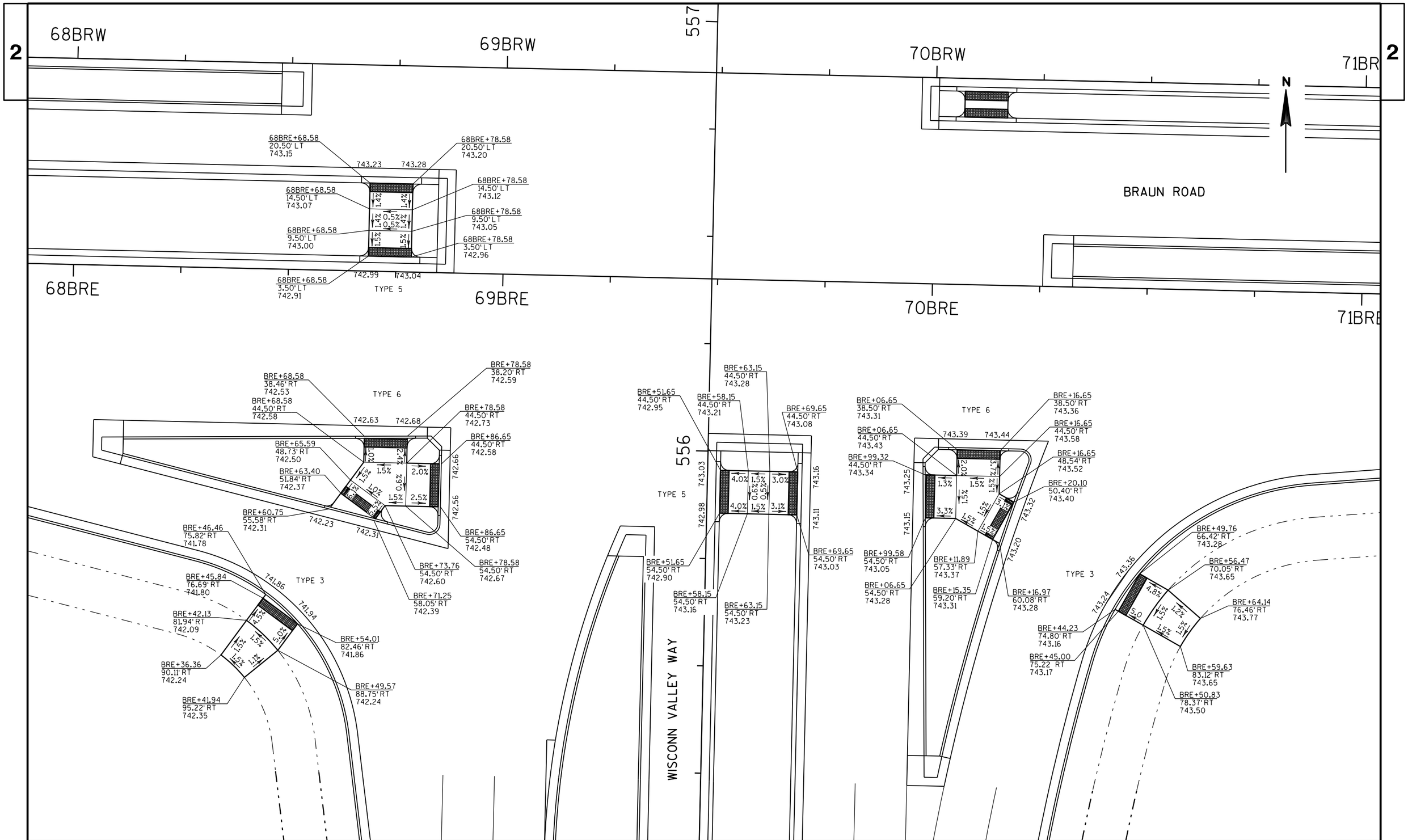
70BRE+16.65
45.00' LT
743.88

70BRE+06.65
39.00' LT
743.95

70BRE+16.65
39.00' LT
744.00

TYPE 5

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CURB RAMP DETAILS	SHEET 33	E



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CURB RAMP DETAILS	SHEET 34	E

2

2

N

R/L BRAUN ROAD WB

SLOPE INTERCEPT (TYP)

20LF REMOVING CULVERT PIPE

24LF REMOVING CULVERT PIPE

20LF REMOVING CULVERT PIPE

54BRW 56BRW 58BRW 60BRW 62BRW 64BRW

BRAUN ROAD

50BRE 52BRE 54BRE 56BRE 58BRE 60BRE 62BRE 64BRE

MATCHLINE A 65BRE+00

R/L BRAUN ROAD EB

Eqn 54+36.47 = Eqn 54+36.41

773LF REMOVING FENCE

POST

MP

REMOVAL LEGEND

- CLEARING AND GRUBBING
- REMOVING CULVERT PIPE
- REMOVING FENCE

NOTES:

1. ALL EXISTING ASPHALT REMOVAL WILL BE PAID FOR AS COMMON EXCAVATION.
2. EXISTING RESIDENCES TO BE REMOVED BY OTHERS.
3. CLEARING AND GRUBBING LOCATIONS ON WISCONN VALLEY WAY SHOWN ON PLAN AND PROFILE SHEETS.

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	REMOVAL PLAN	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\Plots\Z11011r27.dgn PLOT DATE : 11/27/2018 7:52:55 AM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

2

N

561

560

559

558

557

556

555

554

553

552

R/L WISCONN VALLEY WAY

SLOPE INTERCEPT (TYP)

165LF REMOVING FENCE

10LF REMOVING FENCE

11LF REMOVING FENCE

21LF REMOVING CULVERT PIPE

25LF REMOVING CULVERT PIPE

R/L BRAUN ROAD WB

R/L BRAUN ROAD EB

BRAUN ROAD

MATCHLINE A 65BRE+00

66BRW 68BRW 70BRW 72BRW 74BRW 76BRW 78BRW 80BRW

66BRE 68BRE 70BRE 72BRE 74BRE 76BRE 78BRE 80BRE

POST

REMOVAL LEGEND

CLEARING AND GRUBBING

REMOVING CULVERT PIPE

REMOVING FENCE

SAWCUT

NOTES:

1. ALL EXISTING ASPHALT REMOVAL WILL BE PAID FOR AS COMMON EXCAVATION.
2. EXISTING RESIDENCES TO BE REMOVED BY OTHERS
3. CLEARING AND GRUBBING LOCATIONS ON WISCONN VALLEY WAY SHOWN ON PLAN AND PROFILE SHEETS.

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	REMOVAL PLAN	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\Plots\WCVW_Plots_Removal.dgn 11/21/2018 7:53:01 AM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

RAMP NE R/L

RAMP NE

659NE 660NE 661NE 662NE 663NE 664NE 665NE

REMOVE CONCRETE MASONRY ENDWALL (PAID UNDER REMOVING MASONRY ITEM)

POND NE R/L

REMOVE OLD STRUCTURE

FOUND CONCRETE FOUNDATION

1+00 2+00 3+00 4+00 5+00 6+00 7+00

WETLAND BOUNDARY (TYP.)

CTH KR R/L
(FOR REFERENCE ONLY)

CTH KR WB

EAST FRONTAGE RD

5660 5661 5662 5663 5664 5665

EAST FRONTAGE RD R/L
(FOR REFERENCE ONLY)

LEGEND

CLEARING AND GRUBBING (STA.)

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	REMOVAL PLAN: POND NE	SHEET 37	E

FILE NAME : J:\ACTIVE\SE\1030-20-15 RACINE PACKAGE B\C3D\10302015\SHEETSPLAN\1035-03-01 CTH KR INTERCHANGE\NE POND\021101-RM.DWG
LAYOUT NAME - 01

PLOT DATE : 1/28/2019 10:42 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 42

PLAN DETAIL LEGEND

- (CG04) CURB RAMP TYPE 3
- (CG07) CURB RAMP TYPE 5
- (CG08) CURB RAMP TYPE 6
- (CG24) CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A
- (CG53) CONCRETE CURB & GUTTER 30-INCH TYPE A
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM02) CONCRETE MEDIAN SLOPED NOSE TYPE 2
- (CM04) MAINTENANCE OPENING
- (CM07) CONCRETE SIDEWALK 5-INCH
- (CP13) CONCRETE PAVEMENT 10-INCH
- (LS02) BIORETENTION CELL
- (LS03) BIORETENTION CELL CURB OPENING (SEE CONSTRUCTION DETAIL)
- (LS04) TOPSOIL, FERTILIZER, SEED, AND EROSION MAT
- (PV10) FUTURE PATH BY OTHERS
- ■ PROPOSED INLET LOCATION

NOTE:

1) CURB RADIUS GIVEN TO CURB FLANGE, UNLESS NOTED OTHERWISE.

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN DETAILS	SHEET 38	E

2

N

BEGIN PROJECT 2704-00-76
STA 501+54.47

STA 501+54.48
-55.32

R=476'

STA 502+33.74
-24.00

STA 502+41.06
-48.00

CP13 CP13 CP13 CP13 CP13 CP13

PV10 LS04 LS04 LS04 LS04 LS04 LS04 LS04 LS04 LS04 LS04

CG53 CG53 CG53 CG53

CM04

STA 503+37.26
-12.00

STA 503+50.00
-14.03

STA 504+39.54
-24.00

502 503 504 505 506 507

WISCONN VALLEY WAY NB

WISCONN VALLEY WAY SB

12' 12' 12' 12' 12' 12' 12' 12' 10' 10' 10' 10' 24' 24' 48'

R/L WISCONN VALLEY WAY

DETENTION POND 1

720 725 730

1 2

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN DETAILS	SHEET 39	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\021201_PD.dgn PLOT DATE : 12/19/2018 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

2

2

N

LS04

LS04

PV10 LS04

10'

10'

CP13

CG53

WISCONN VALLEY WAY SB

12'

12'

CP13

508

509

CG53

510

511

512

513

48'

24'

LS04

CP13

WISCONN VALLEY WAY NB

12'

12'

CG53

CP13

10'

10'

PV10 LS04

R/L WISCONN VALLEY WAY

LS04

LS04

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN DETAILS	SHEET 40	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\021202_PD.dgn PLOT DATE : 12/19/2018 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

N

LS04

LS04

PV10 LS04

10' 10'

CP13

12'

WISCONN VALLEY WAY SB

CP13

12'

CG53

514 515 516 48' 517 518 519

LS04

24'

CP13

CG53

12'

WISCONN VALLEY WAY NB

CP13

12'

10' 10'

PV10 LS04

LS04

LS04

R/L WISCONN VALLEY WAY

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN DETAILS	SHEET 41	E

2

N

R/L WISCONN VALLEY WAY

LS04

LS04

PV10 LS04

10' 10'

CP13

CP13

12'

12'

WISCONN VALLEY WAY SB

LS04

520 521 522 523 524 525

CG53

48'

24'

CP13

WISCONN VALLEY WAY NB

12'

12'

CG53

CP13

10'

10'

PV10 LS04

LS04

LS04

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN DETAILS	SHEET 42	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\021204_PD.dgn PLOT DATE : 12/19/2018 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

2

N

R/L WISCONN VALLEY WAY

LS04

PV10 LS04

10'

10'

CP13

12'

WISCONN VALLEY WAY SB

CG53

LS04

CP13

12'

526

527

CG53

528

LS04

529

530

531

48'

24'

STA 530+66.36
-22.00

LS03

STA 530+66.50
22.00

CP13

12'

WISCONN VALLEY WAY NB

CP13

12'

CG53

10'

10'

PV10 LS04

LS04

LS04

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN DETAILS	SHEET 43	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\021205_PD.dgn PLOT DATE : 12/19/2018 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

2

N

STA 531+77.74
-22.00

STA 531+74.16
-9.83

STA 531+74.04
0.17
R=4'

STA 532+00.92
-9.83

LS04

STA 533+95.64
-10.00

STA 533+99.14
-22.00

LS04

STA 536+21.70
-22.00

STA 536+18.20
-10.00

STA 536+18.20
0.00
R=4'

STA 536+45.20
-10.00

STA 536+45.20
0.00
R=4'

10'

10'

PV10 LS04

12'

12'

CP13

CG53

WISCONN VALLEY WAY SB

STA 532+88.27
-22.00

LS03

LS03

CP13

STA 535+10.42
-22.00

LS03

STA 534+22.64
-10.00

LS04

LS03

STA 532+01.04
0.17
R=4'

532

533

CG53

534

LS02

535

536

537

LS02

531

STA 534+22.64
0.00
R=4'

48'

24'

LS03

LS03

LS03

LS03

STA 531+73.91
10.17

LS03

STA 532+01.17
10.17

LS02

STA 532+88.41
22.00

12'

CP13

WISCONN VALLEY WAY NB

STA 535+10.42
22.00

STA 536+18.20
10.00

LS03

STA 531+77.34
22.00

12'

CP13

CP13

CG53

10'

10'

PV10 LS04

LS04

STA 533+95.64
0.00
R=4'

STA 534+22.64
10.00

LS04

STA 536+21.70
22.00

STA 536+45.20
10.00

STA 533+95.64
10.00

R/L WISCONN VALLEY WAY

STA 533+99.14
22.00

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN DETAILS	SHEET 44	E

DETENTION POND J

N

C-51-85 (BOX CULVERT WILL BE CONSTRUCTED PRIOR TO LET AS SEPARATE PROJECT)

FENCE CHAIN LINK 6-FT

STA 537+43.50
-71.00

STA 538+43.50
-71.00

STA 538+45.05
-22.00

STA 538+41.55
-10.00

STA 540+69.38
-22.00

STA 540+65.88
-10.00

LS04

PV10 LS04

10'

10'

12'

STA 537+33.37
-22.00

CP13

CG53

WISCONN VALLEY WAY SB

CP13

STA 539+57.21
-22.00

12'

LS03

LS02 LS03

STA 538+68.55
-10.00

LS03

LS02

LS03

STA 540+92.88
-10.00

LS04

537 538 539 540 541 542 543

48'

24'

STA 538+41.55
0.00
R=4'

LS03

STA 538+68.55
0.00
R=4'

LS03

LS03

LS03

STA 540+92.88
0.00
R=4'

STA 537+33.37
22.00

CP13

STA 539+57.21
22.00

12'

WISCONN VALLEY WAY NB

CP13

CG53

12'

10'

10'

PV10 LS04

LS04

LS04

STA 537+43.50
71.00

FENCE CHAIN LINK 6-FT

STA 538+43.50
71.00

STA 538+68.55
10.00

STA 540+65.88
0.00
R=4'

STA 540+92.88
10.00

R/L WISCONN VALLEY WAY

STA 538+41.55
10.00

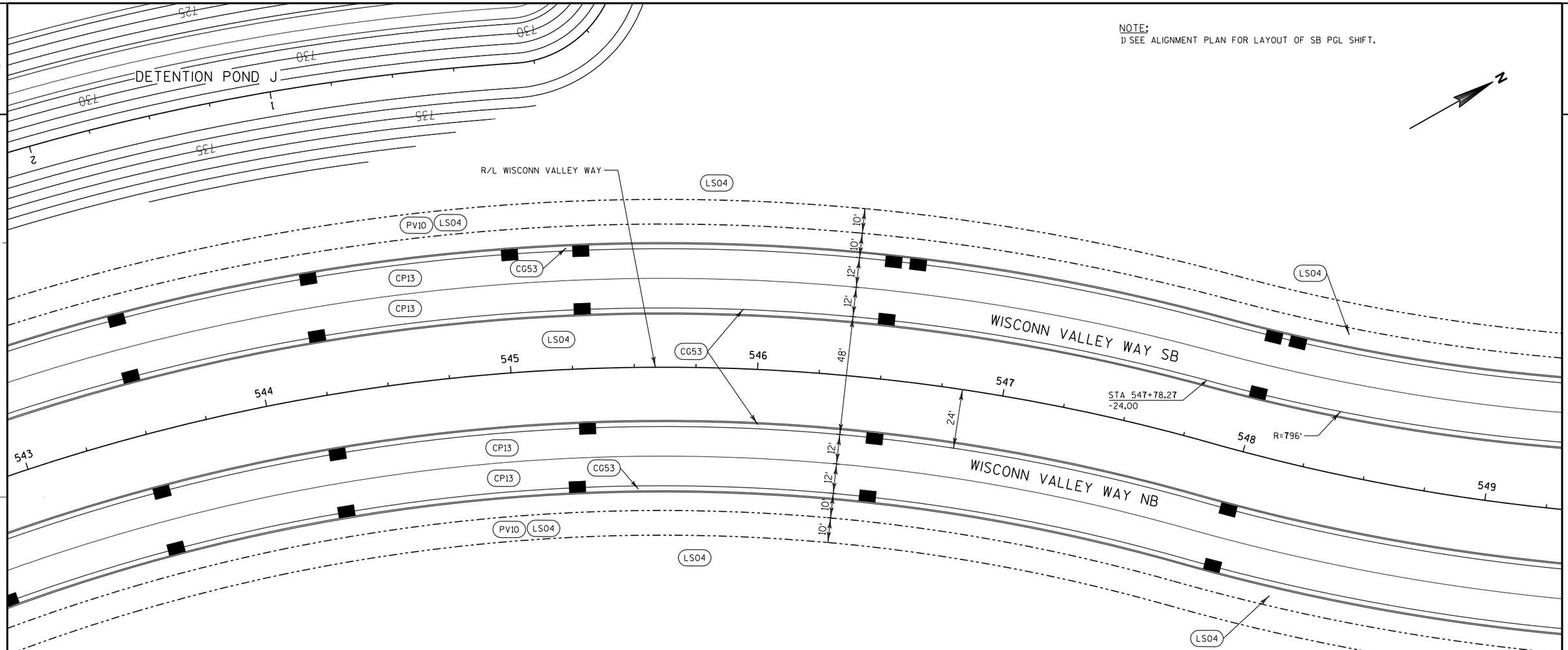
STA 538+45.05
22.00

STA 540+65.88
10.00

STA 540+69.38
22.00

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN DETAILS	SHEET 45	E

NOTE:
1) SEE ALIGNMENT PLAN FOR LAYOUT OF SB PGL SHIFT.

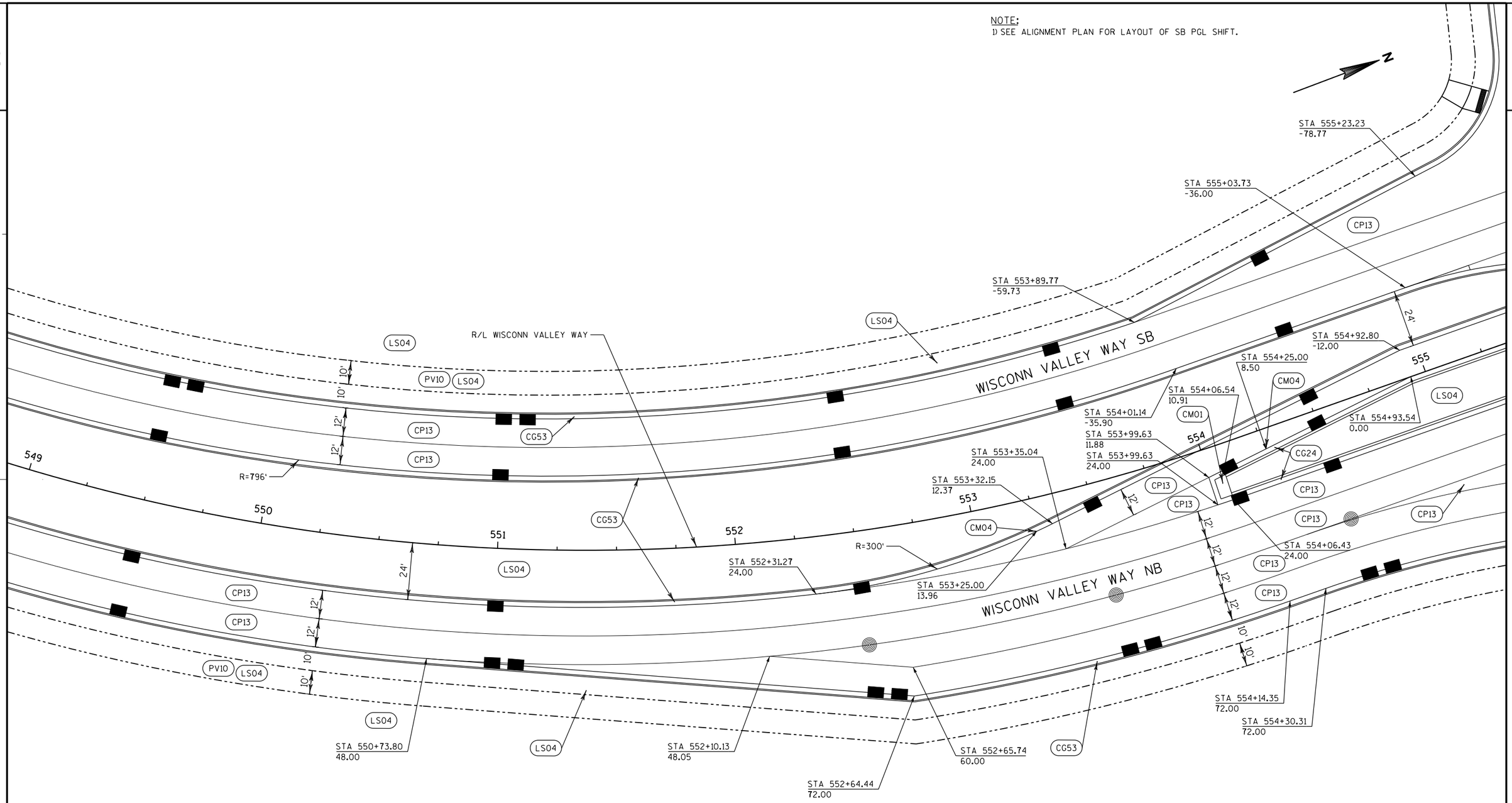


PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN DETAILS	SHEET 46	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\021208_PD.dgn PLOT DATE : 12/19/2018 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

NOTE:
1) SEE ALIGNMENT PLAN FOR LAYOUT OF SB PGL SHIFT.



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN DETAILS	SHEET 47	E

NOTE:
1) SEE BRAUN RD PLAN DETAILS FOR ADDITIONAL INFORMATION.

2) SEE ALIGNMENT PLAN FOR LAYOUT OF SB PGL SHIFT.

N

BRAUN RD

68BRE 68BRW 69BRE 69BRW 70BRE 70BRW 71BRE 71BRW

WISCONN VALLEY WAY SB

WISCONN VALLEY WAY NB

R/L WISCONN VALLEY WAY

STA 555+23.23 -78.77
STA 555+03.73 -36.00
STA 555+82.12 -20.00
R=200'
STA 555+75.12 -22.83
STA 555+75.12 -12.00
STA 555+82.12 -12.00
STA 555+23.23 48.00
STA 555+23.23 56.71
R=476'
STA 555+53.52 88.22

STA 557+75.12 -91.54
STA 558+04.52 -82.66
STA 557+99.00 -68.66
STA 558+76.76 -72.00
STA 557+92.73 -70.55
R=250'
STA 558+27.56 -60.04
STA 557+92.00 -60.04
STA 557+99.00 -60.00
STA 557+49.12 0.00
STA 557+56.12 0.00
STA 558+27.50 24.00
STA 557+56.12 10.83
R=200'
STA 557+49.12 8.00
STA 557+99.00 63.77
STA 559+10.02 48.00

STA 560+01.25 -72.00
STA 561+00.44 -58.93
STA 560+48.06 -35.98
STA 560+40.84 -36.00
STA 561+00.26 -34.92
STA 560+40.84 -24.00
STA 560+49.39 -11.97
STA 560+47.98 -23.98
STA 560+50.75 0.04

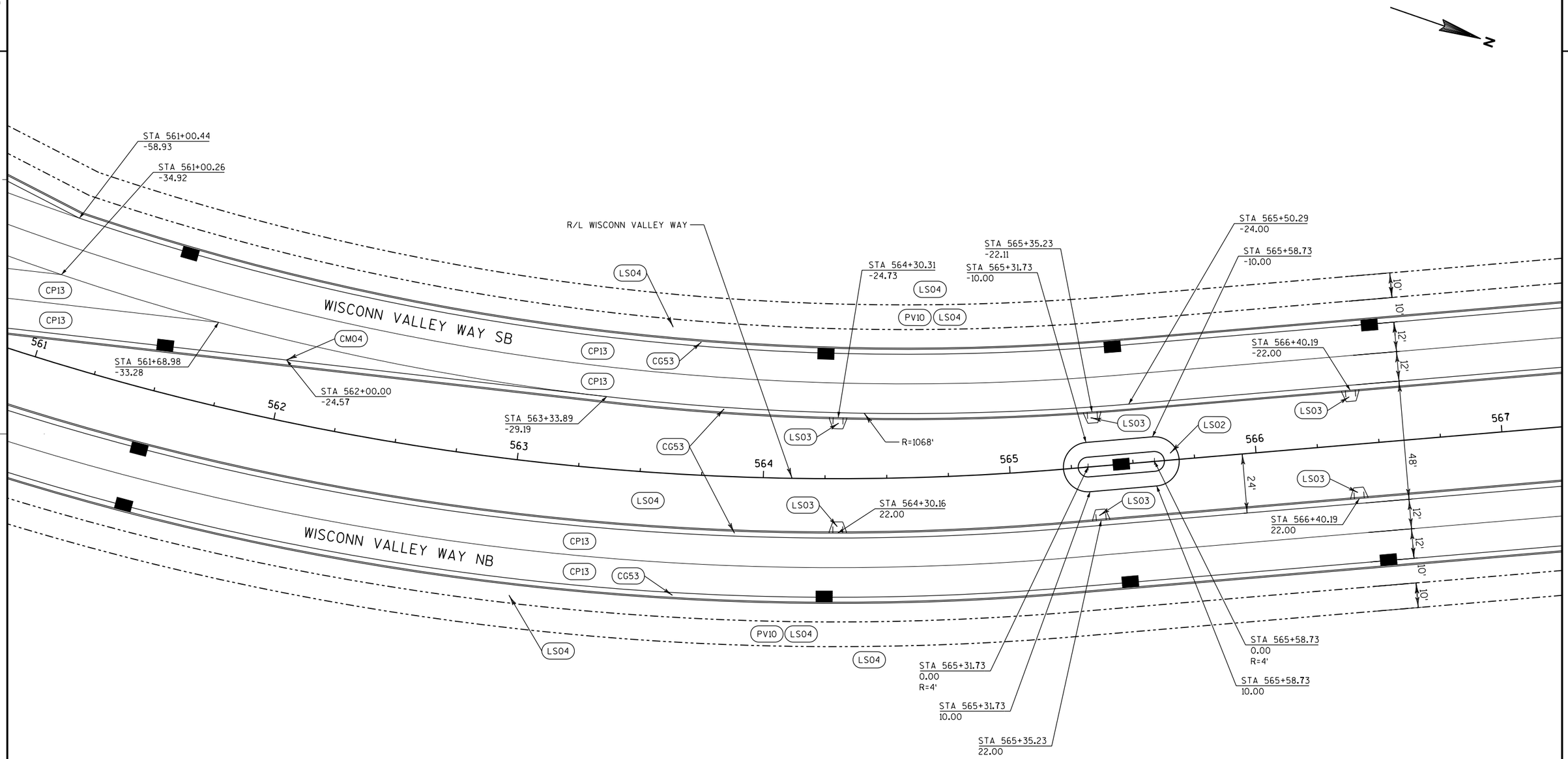
CP13 CM01 CM07 LS04 PV10 CG53

555 556 557 558 559 560 561

10' 12' 24'

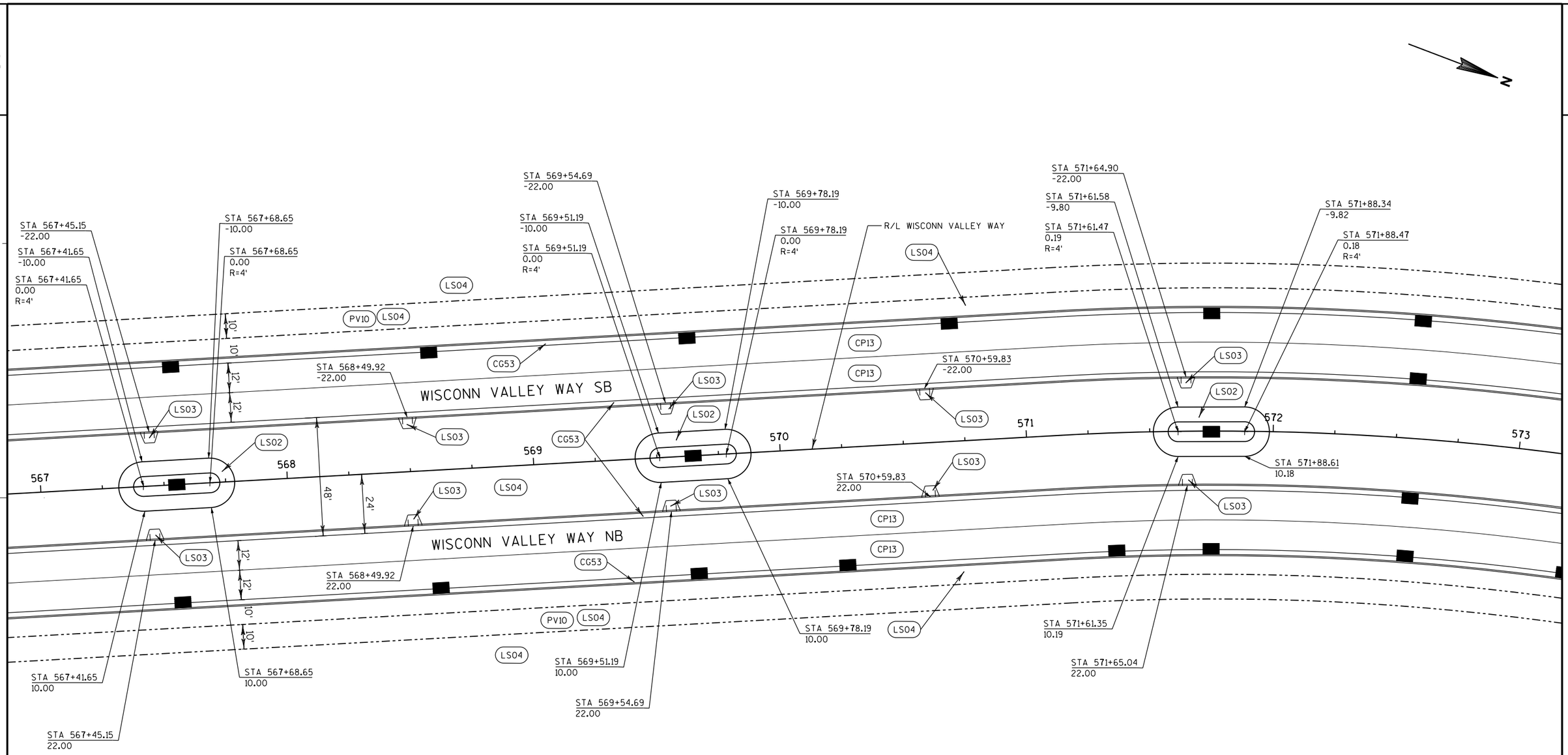
PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN DETAILS	SHEET 48	E

NOTE:
1) SEE ALIGNMENT PLAN FOR LAYOUT OF SB PGL SHIFT.



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN DETAILS	SHEET 49	E

2



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN DETAILS	SHEET 50	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\021212_PD.dgn PLOT DATE : 12/19/2018 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

DETENTION POND K

WISCONN VALLEY WAY SB

WISCONN VALLEY WAY NB

R/L WISCONN VALLEY WAY

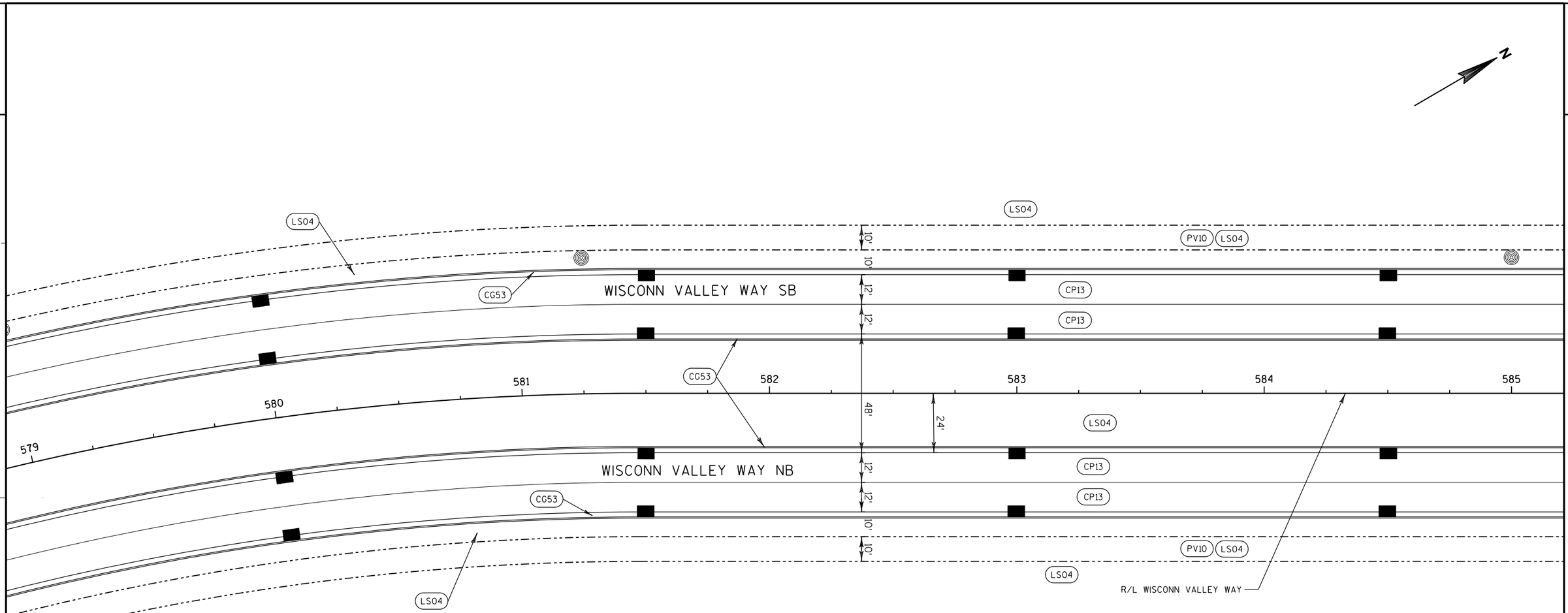
LS04 PV10 CP13 CG53

10' 12' 12' 48' 24' 12' 12' 10' 10'

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN DETAILS	SHEET 51	E

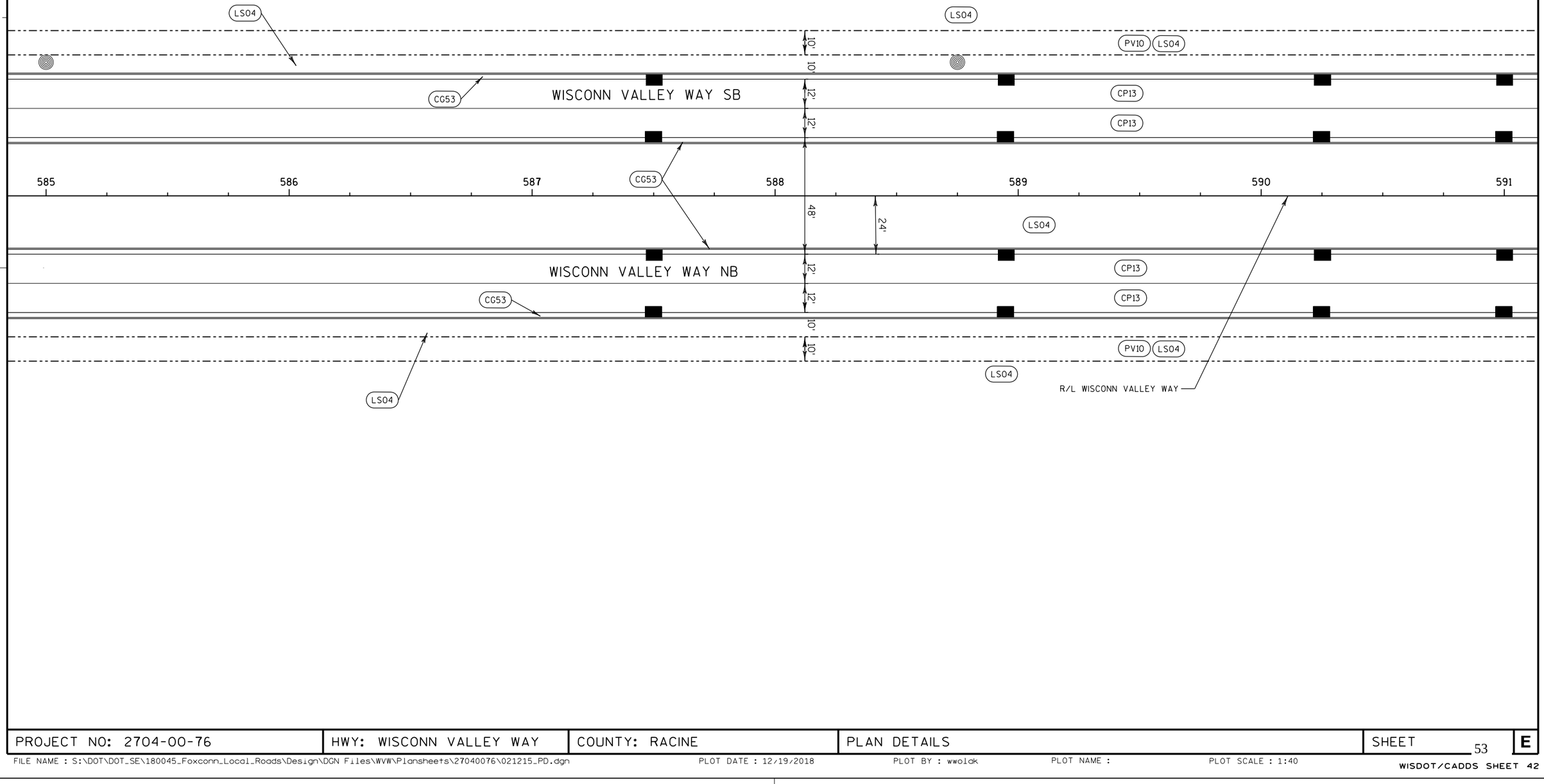
FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\021213_PD.dgn PLOT DATE : 12/19/2018 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

2



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN DETAILS	SHEET 52	E

2



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN DETAILS	SHEET 53	E

2

N

R/L WISCONN VALLEY WAY

LS04

LS04

PV10

LS04

CP13

CG53

CP13

WISCONN VALLEY WAY SB

10'

10'

12'

12'

591

592

593

594

595

596

597

48'

24'

CG53

LS04

CP13

CP13

CG53

WISCONN VALLEY WAY NB

12'

12'

10'

10'

PV10

LS04

LS04

LS04

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN DETAILS	SHEET 54	E

2

2

N

WISCONN VALLEY WAY SB

WISCONN VALLEY WAY NB

597 598 599 600 601 602 603

LS04 CG53 CP13 PV10 CM04

10' 10' 12' 12' 48' 24' 12' 12' 10' 10'

STA 602+36.58
24.00

STA 602+75.00
19.17

R/L WISCONN VALLEY WAY

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN DETAILS	SHEET 55	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\021217_PD.dgn PLOT DATE : 12/19/2018 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

STH 11

N

157

158

159

160

603

604

605

606

WISCONN VALLEY WAY SB

WISCONN VALLEY WAY NB

END PROJECT 2704-00-76
STA 605+29.12

STA 603+31.98
12.00

STA 604+38.30
-48.00

STA 605+29.12
-58.59

STA 604+55.05
48.00

STA 605+01.13
36.00

R=250'

STA 605+19.75
56.52

STA 605+29.12
36.00

STA 605+29.12
43.50

STA 605+29.12
59.03

R/L WISCONN VALLEY WAY

LS04 PV10 CP13 CG53

10' 12' 36'

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN DETAILS	SHEET 56	E

2

N

BEGIN CONSTRUCTION
STA 54BRW+36.47
X=594561.83
Y=170407.23

LS04
PV10 LS04
CG53
LS04
CP13
CP13
CP13
CP13
12'
12'
12'
12'
BRW+21.36
48.00' LT
2'
BRW+01.36
36.00' LT
4BRW
55BRW
56BRW
57BRW
58BRW
59BRW
60B
BRW+48.68
0.00
BRW+45.42
0.00
2'
CM07
CG24
CM01
CP13
CP13
CP13
CM04
CM07
CG53
BRW+48.68
24.00' RT
BRW+73.42
36.00' RT
BRAUN ROAD
R/L BRAUN ROAD WB
R/L BRAUN ROAD EB
LS04
MATCHLINE A 60BRE+00
4BRE
55BRE
56BRE
57BRE
58BRE
59BRE
60B
BRE+13.53
2.50' LT
CP13
CP13
CP13
12'
12'
12'
Eqn54+36.47
Eqn54+36.41
2'
BRE+62.59
36.00' RT
BRE+41.93
36.00' RT
PV10 LS04
CG53
LS04
LS04

BEGIN CONSTRUCTION
STA A 54BRE+36.41
X=594560.75
Y=170359.24

NOTE:

SEE CONSTRUCTION DETAIL FOR
MAINTENANCE RAMP LAYOUT

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN DETAIL: BRAUN ROAD	SHEET 57	E

2

N

LS04

CG53

PV10 LS04

LS04

CP13

12'

12'

CP13

12'

CP13

61BRW

62BRW

63BRW

64BRW

65BRW

MATCHLINE A 60BRE+00

MATCHLINE A 66BRE+00

CG53

R/L BRAUN ROAD WB

BRAUN ROAD

LS04

R/L BRAUN ROAD EB

CG53

BRE+16.83
0.00

2'

12'

61BRE

62BRE

63BRE

CP13

BRE+00.83
0.00

64BRE

65BRE

12'

12'

CP13

CP13

BRE+14.23
36.00' RT

BRE+98.23
36.00' RT

2'

CG53

PV10 LS04

LS04

LS04

BRE+94.23
48.00' RT

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN DETAIL: BRAUN ROAD	SHEET 58	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PLOTS\WCVW_PLOT_2021_28_2018 10:20:18 AM PLOT BY : jdepies PLOT NAME : PLOT SCALE : 40:1

RADIUS TABLE (CENTER OF RADIUS)			
POINT	STATION	OFFSET	RADIUS
201	A 67BRE+25.09	298.00' RT	250.00'
202*	A 68BRE+84.15	58.50' RT	2.50'
203	A 71BRE+12.65	136.38' RT	200.00'
204*	A 70BRE+21.40	40.50' RT	2.50'
205	A 74BRE+89.77	211.78' RT	500.00'
206*	68BRW+63.50	40.50' LT	2.50'
207	67BRW+72.70	139.38' LT	200.00'
208*	70BRW+01.20	57.60' LT	2.50'
209	71BRW+56.40	298.00' LT	250.00'

* RADIUS MEASURED TO FACE OF CURB

NOTES:

1. SEE CURB RAMP CONSTRUCTION DETAIL FOR CURB RAMP LAYOUT
2. SEE CONSTRUCTION DETAIL FOR MAINTENANCE RAMP LAYOUT

R/L WISCONN VALLEY WAY

WISCONN VALLEY WAY

R/L BRAUN ROAD WB

R/L BRAUN ROAD EB

BRAUN ROAD

MATCHLINE A 66BRE+00

END CONSTRUCTION
STA A 71BRW+75.05
X=596299.98
Y=170368.00

END CONSTRUCTION
STA A 71BRE+75.00
X=596298.89
Y=170320.01

STA 68BRE+09.30, 101.45' LT
R=50.0'

STA 70BRW+62.44, 114.62' RT
R=50.0'

STA A 68BRE+19.05, 114.62' RT
R=50.0'

STA A 70BRE+94.82, 102.13' RT
R=60.0'

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN DETAIL: BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW_PLOT_BRAUN_12052018.dgn
PLOTTED : 12/5/2018 2:10:47 PM PLOT BY : jdepies PLOT NAME : PLOT SCALE : 40:1
WISDOT/CADDS SHEET 42

	CROSS SLOPE TRANSITION			
	SOUTHBOUND		NORTHBOUND	
STATION	OUTSIDE LANE	INSIDE LANE	INSIDE LANE	OUTSIDE LANE
501+54.50	0.5% ↙	0.5% ↙	0.5% ↙	0.5% ↙
502+04.90	2.0% ↙		2.0% ↙	
502+38.50		2.0% ↘		2.0% ↘

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25'INTERVALS.

LEGEND

XXX.XX = SPOT ELEVATION

▒ = PROPOSED INLET

N

WISCONN VALLEY WAY NB

WISCONN VALLEY WAY SB

BEGIN PROJECT 2704-00-76
STA 501+54.47

R/L WISCONN VALLEY WAY

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVING GRADES	SHEET 60	E

2

NOTES:

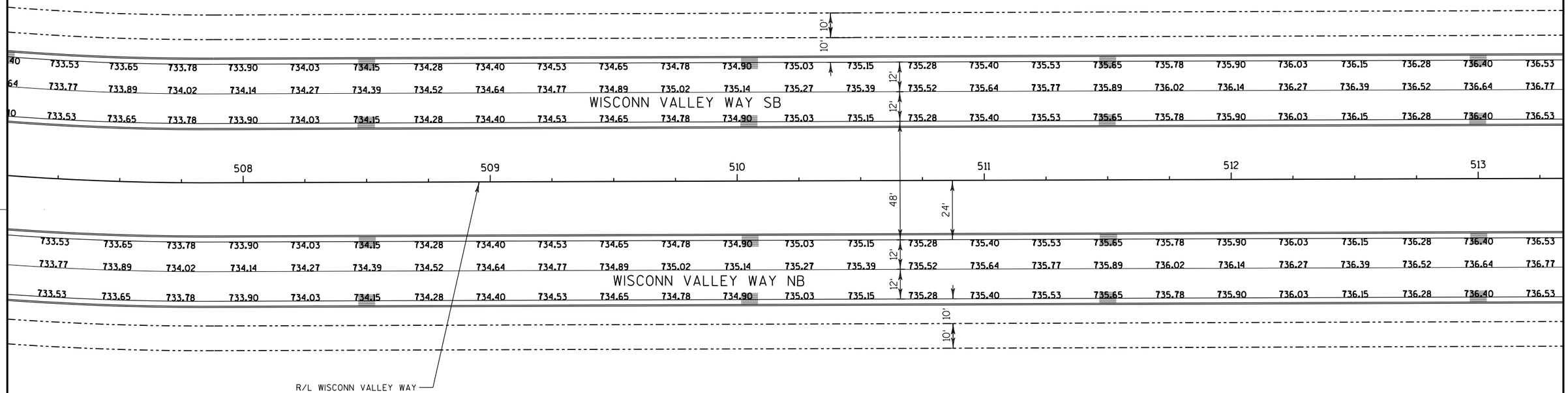
1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25'INTERVALS.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVING GRADES	SHEET 61	E

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25'INTERVALS.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET

N

10'
10'

736.53 736.65 736.78 736.89 736.96 736.99 736.97 736.92 736.82 736.70 736.57 736.45 736.32 736.20 736.12 736.10 736.12 736.20 736.32 736.45 736.57 736.70 736.82 736.95 737.07

12'

736.77 736.89 737.02 737.13 737.20 737.23 737.21 737.16 737.06 736.94 736.81 736.69 736.56 736.44 736.36 736.34 736.36 736.44 736.56 736.69 736.81 736.94 737.06 737.19 737.31

12'

WISCONN VALLEY WAY SB

736.53 736.65 736.78 736.89 736.96 736.99 736.97 736.92 736.82 736.70 736.57 736.45 736.32 736.20 736.12 736.10 736.12 736.20 736.32 736.45 736.57 736.70 736.82 736.95 737.07

48'

514 515 516 517 518 519

24'

736.53 736.65 736.78 736.89 736.96 736.99 736.97 736.92 736.82 736.70 736.57 736.45 736.32 736.20 736.12 736.10 736.12 736.20 736.32 736.45 736.57 736.70 736.82 736.95 737.07

12'

736.77 736.89 737.02 737.13 737.20 737.23 737.21 737.16 737.06 736.94 736.81 736.69 736.56 736.44 736.36 736.34 736.36 736.44 736.56 736.69 736.81 736.94 737.06 737.19 737.31

12'

WISCONN VALLEY WAY NB

736.53 736.65 736.78 736.89 736.96 736.99 736.97 736.92 736.82 736.70 736.57 736.45 736.32 736.20 736.12 736.10 736.12 736.20 736.32 736.45 736.57 736.70 736.82 736.95 737.07

10'
10'

R/L WISCONN VALLEY WAY

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVING GRADES	SHEET 62	E

NOTES:

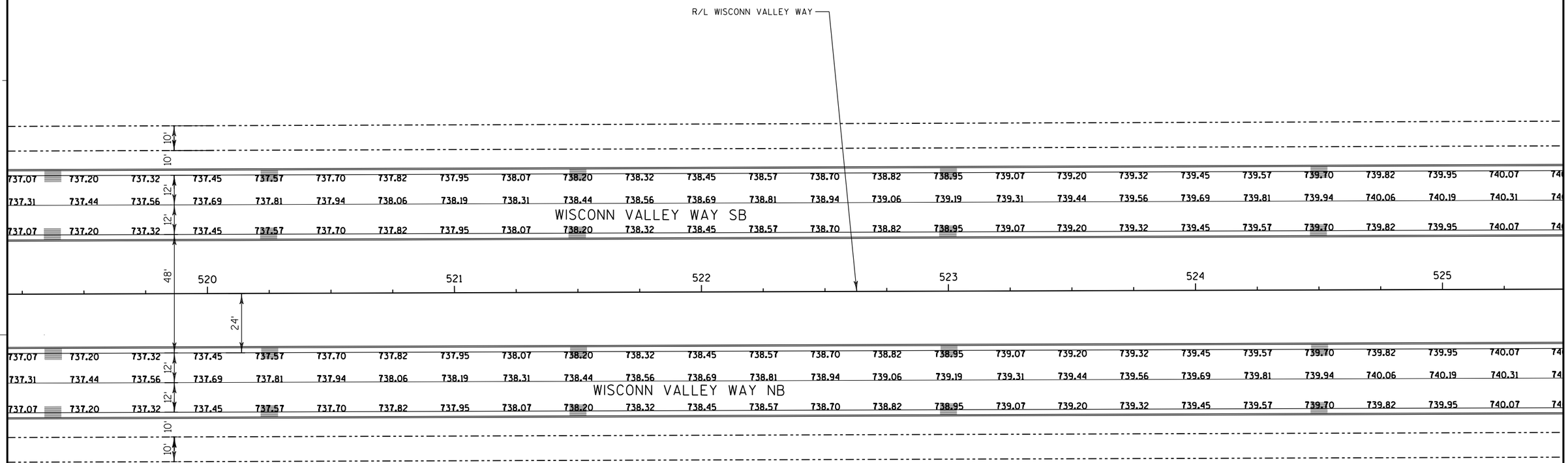
1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25'INTERVALS.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVING GRADES	SHEET 63	E

NOTES:

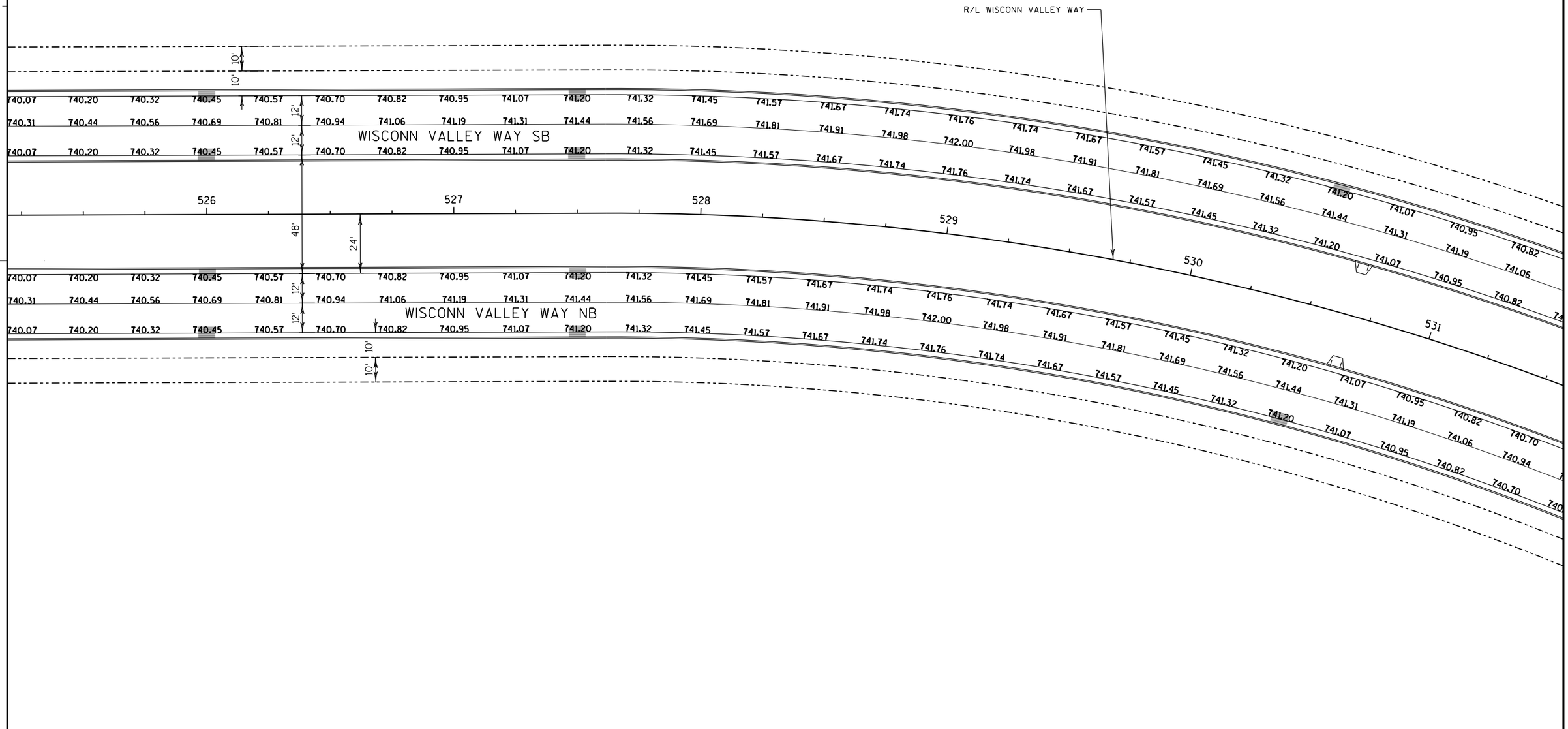
1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25'INTERVALS.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVING GRADES	SHEET 64	E

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

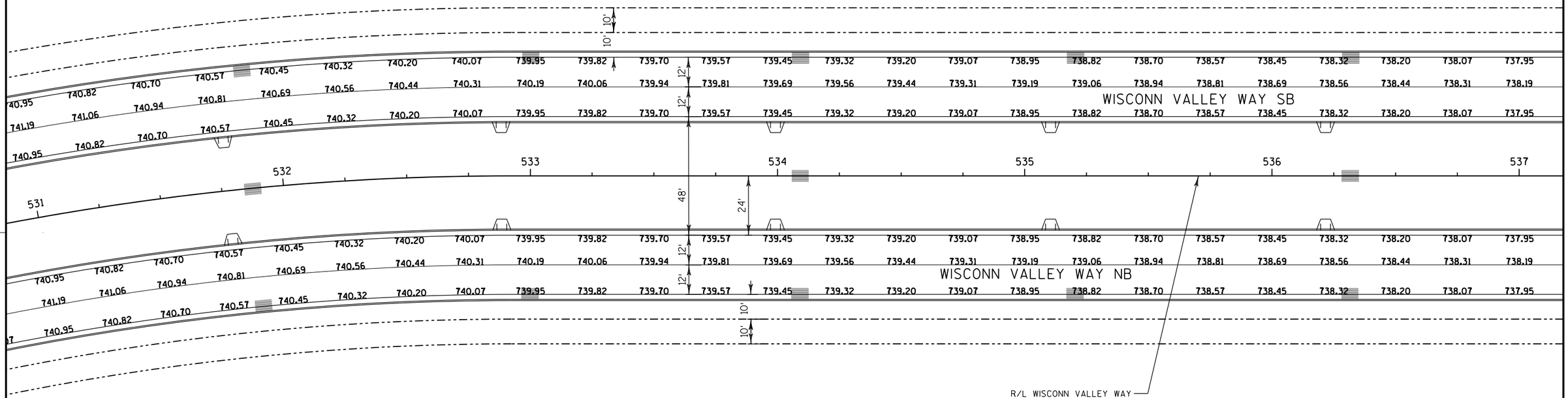
2) PAVING GRADES ARE SHOWN AT 25'INTERVALS.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET

N



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVING GRADES	SHEET 65	E

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25'INTERVALS.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET

N

C-51-85 (BOX CULVERT WILL BE CONSTRUCTED PRIOR TO LET AS SEPARATE PROJECT)

R/L WISCONN VALLEY WAY

WISCONN VALLEY WAY SB

WISCONN VALLEY WAY NB

537	538	539	540	541	542	543
737.95	737.82	737.70	737.57	737.45	737.32	737.20
738.19	738.06	737.94	737.81	737.69	737.56	737.44
737.95	737.82	737.70	737.57	737.45	737.32	737.20
737.95	737.82	737.70	737.57	737.45	737.32	737.20
738.19	738.06	737.94	737.81	737.69	737.56	737.44
737.95	737.82	737.70	737.57	737.45	737.32	737.20

737.07	736.95	736.82	736.70	736.57	736.45	736.32	736.20	736.07	735.95	735.82	735.70	735.57	735.45	735.32	735.20	735.07	734.95
737.07	736.95	736.82	736.70	736.57	736.45	736.32	736.20	736.07	735.95	735.82	735.70	735.57	735.45	735.32	735.20	735.07	734.95
737.07	736.95	736.82	736.70	736.57	736.45	736.32	736.20	736.07	735.95	735.82	735.70	735.57	735.45	735.32	735.20	735.07	734.95

737.07	736.95	736.82	736.70	736.57	736.45	736.32	736.20	736.07	735.95	735.82	735.70	735.57	735.45	735.32	735.20	735.07	734.95	734.8
737.07	736.95	736.82	736.70	736.57	736.45	736.32	736.20	736.07	735.95	735.82	735.70	735.57	735.45	735.32	735.20	735.07	734.95	734.87

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVING GRADES	SHEET 66	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\021237_PG.dgn PLOT DATE : 12/19/2018 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

NOTES:

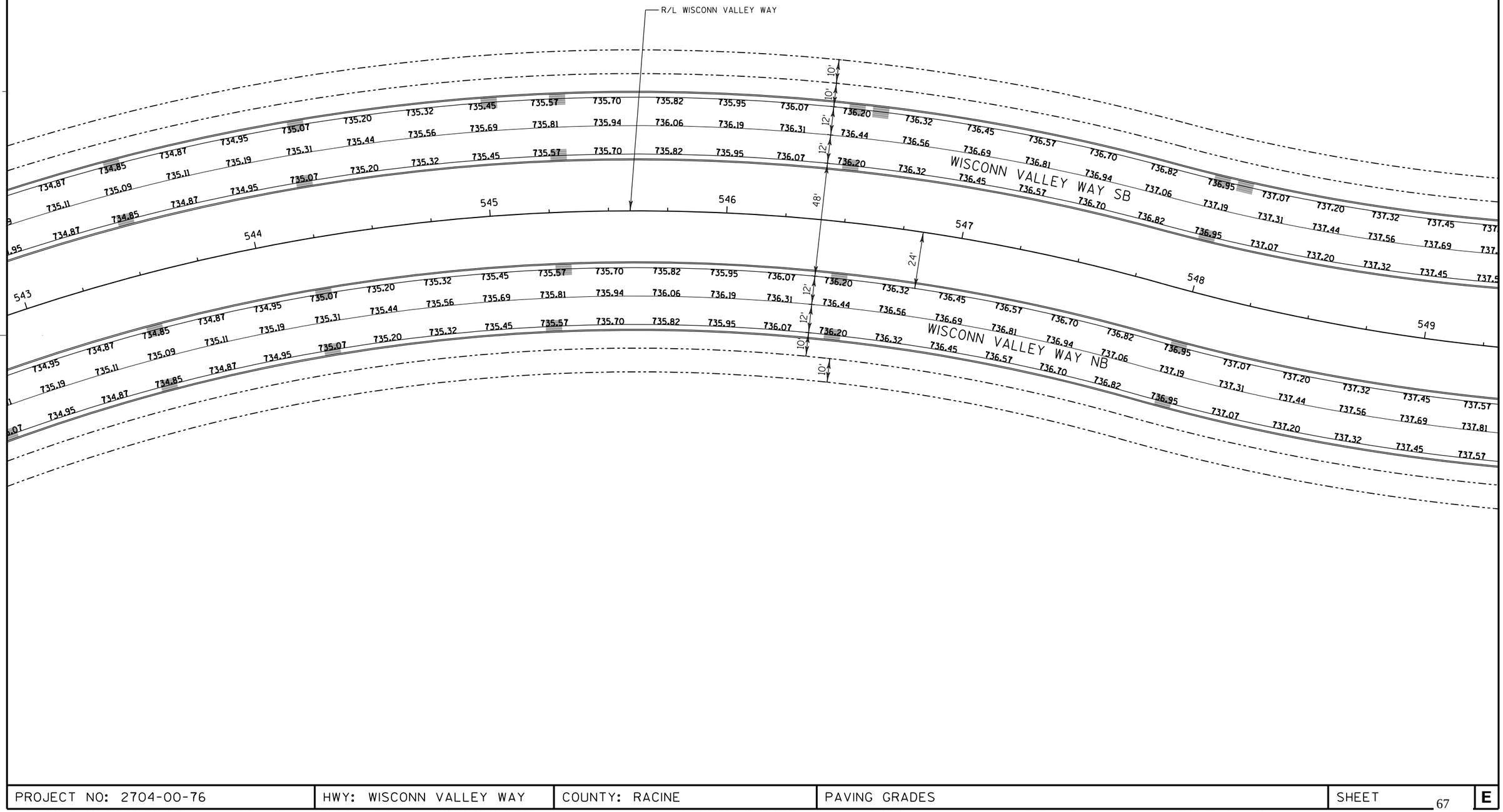
1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25'INTERVALS.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVING GRADES	SHEET 67	E

CROSS SLOPE TRANSITION				
	SOUTHBOUND		NORTHBOUND	
STATION	OUTSIDE LANE	INSIDE LANE	INSIDE LANE	OUTSIDE LANE
553+75.00		2.0% ↘		2.0% ↘
554+30.00	2.0% ↙		2.0% ↙	
555+02.50	0.55% ↙	0.55% ↙	0.55% ↙	0.55% ↙

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25' INTERVALS.

LEGEND

XXX.XX = SPOT ELEVATION

▒ = PROPOSED INLET

N

R/L WISCONN VALLEY WAY

WISCONN VALLEY WAY SB

WISCONN VALLEY WAY NB

549 550 551 552 553 554 555

24'

12'

10'

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVING GRADES	SHEET 68	E

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25'INTERVALS.

3) SEE BRAUN ROAD PAVING GRADES FOR ADDITIONAL INFORMATION.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET

	CROSS SLOPE TRANSITION			
	SOUTHBOUND		NORTHBOUND	
STATION	OUTSIDE LANE	INSIDE LANE	INSIDE LANE	OUTSIDE LANE
557+50.00	0.55% ↙	0.55% ↙	0.55% ↙	0.55% ↙
557+94.95	2.0% ↙		2.0% ↙	
558+29.05		2.0% ↘		2.0% ↘

N

BRAUN RD

68BRE 68BRW 69BRE 69BRW 70BRE 70BRW 71BRE 71BRW

WISCONN VALLEY WAY SB

WISCONN VALLEY WAY NB

R/L WISCONN VALLEY WAY

555 556 557 558 559 560 561

741.61 741.67 741.84 741.95 742.08 742.21 742.33 742.46 742.58 742.71 742.89 743.07 743.25 743.44
741.70 741.95 742.20 742.45 742.70 741.98 742.17 742.19 742.22 742.32 742.45 742.57 742.70 742.82 742.95 743.07 743.20 743.32 743.44
741.77 742.01 742.26 742.51 742.76 742.73 742.48 742.27 742.15 742.19 742.22 742.32 742.45 742.57 742.70 742.82 742.95 743.07 743.20 743.32 743.44
741.83 742.08 742.33 742.58 742.83 742.80 742.55 742.43 742.39 742.43 742.46 742.56 742.69 742.81 742.94 743.06 743.19 743.31 743.44 743.56 743.69
742.09 742.36 742.65 742.90 742.86 742.61 742.40 742.26 742.20 742.22 742.32 742.45 742.57 742.70 742.82 742.95 743.07 743.20 743.32 743.45
741.94 742.21 742.46 742.71 742.96 742.93 742.68 742.37 742.13 741.98 741.98 742.08 742.21 742.33 742.46 742.58 742.71 742.83 742.96 743.21
555 742.78 743.03 556 743.00 742.75 742.34 742.01 741.75 741.74 741.84 741.97 742.09 742.22 742.34 742.47 742.59 742.72 742.96 743.20
.67 742.02 742.28 742.53 743.06 742.81 558 559 560 742.72 742.96 561
742.31 741.88 741.53 741.50 741.60 741.73 741.85 741.98 742.10 742.23 742.35 742.47
742.16 742.41 742.66 742.91 743.16 743.13 742.88 742.60 742.45
742.23 742.48 742.73 742.98 743.23 743.19 742.94 742.69 742.49 742.36 742.31 742.34 742.45 742.57 742.70 742.82 742.95 743.07 743.20 743.32 743.45
742.29 742.54 742.79 743.04 743.29 743.26 743.01 742.86 742.73 742.60 742.55 742.58 742.69 742.81 742.94 743.06 743.19 743.31 743.44 743.56 743.69
742.32 743.33 743.08 742.83 742.60 742.38 742.31 742.34 742.45 742.57 742.70 742.82 742.95 743.07 743.20 743.32 743.45
742.38 742.43 742.15 742.14 742.24 742.42
742.44

12' 12' 12' 12' 12' 12' 12' 10' 10' 10' 24'

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVING GRADES	SHEET 69	E

NOTES:

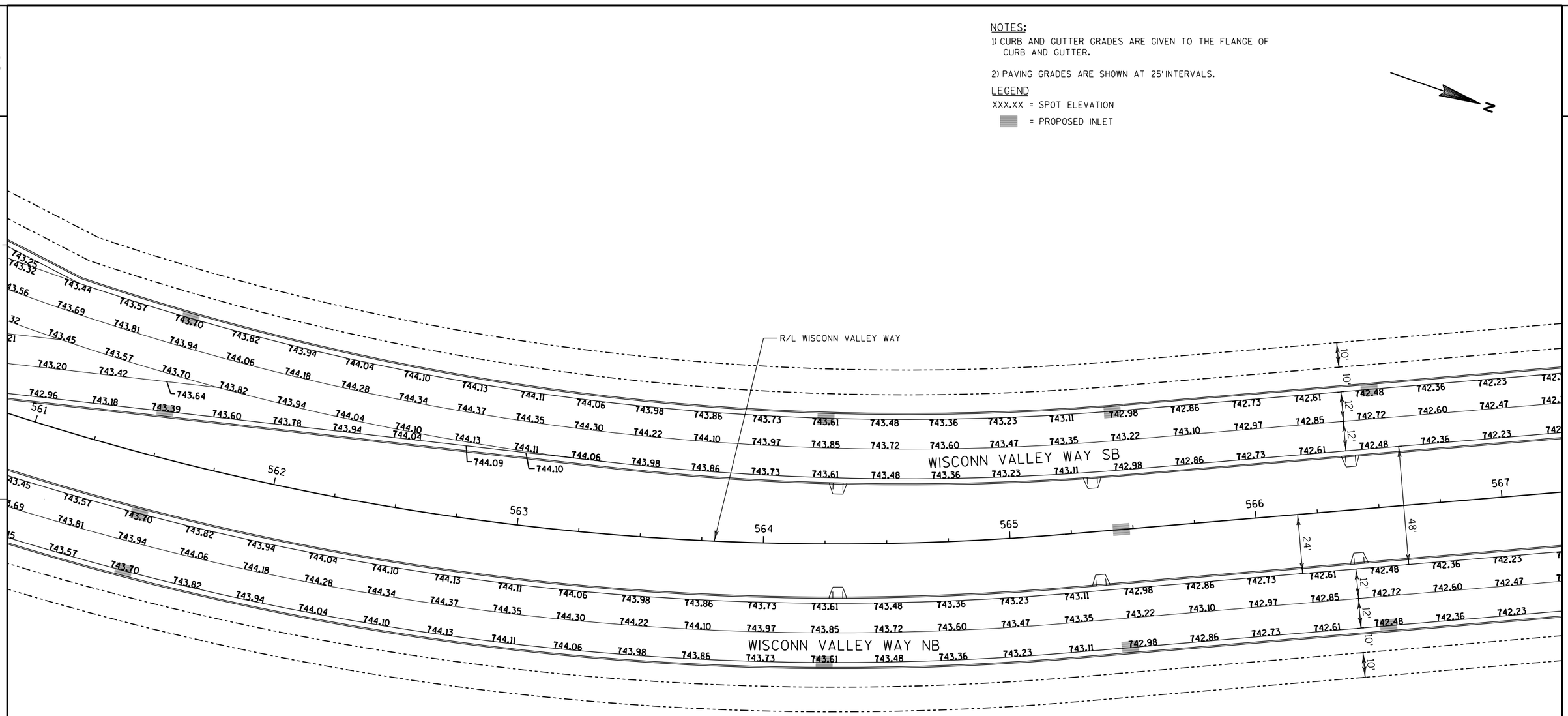
1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25'INTERVALS.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVING GRADES	SHEET 70	E

NOTES:

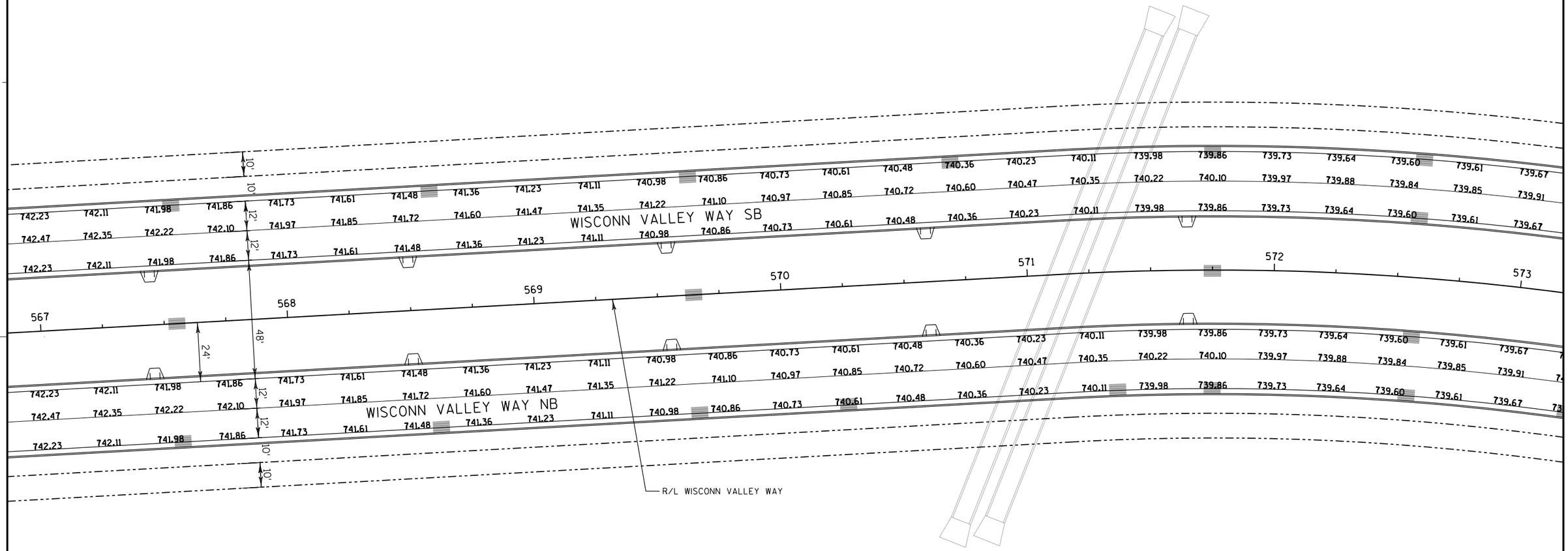
1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25'INTERVALS.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVING GRADES	SHEET 71	E

NOTES:

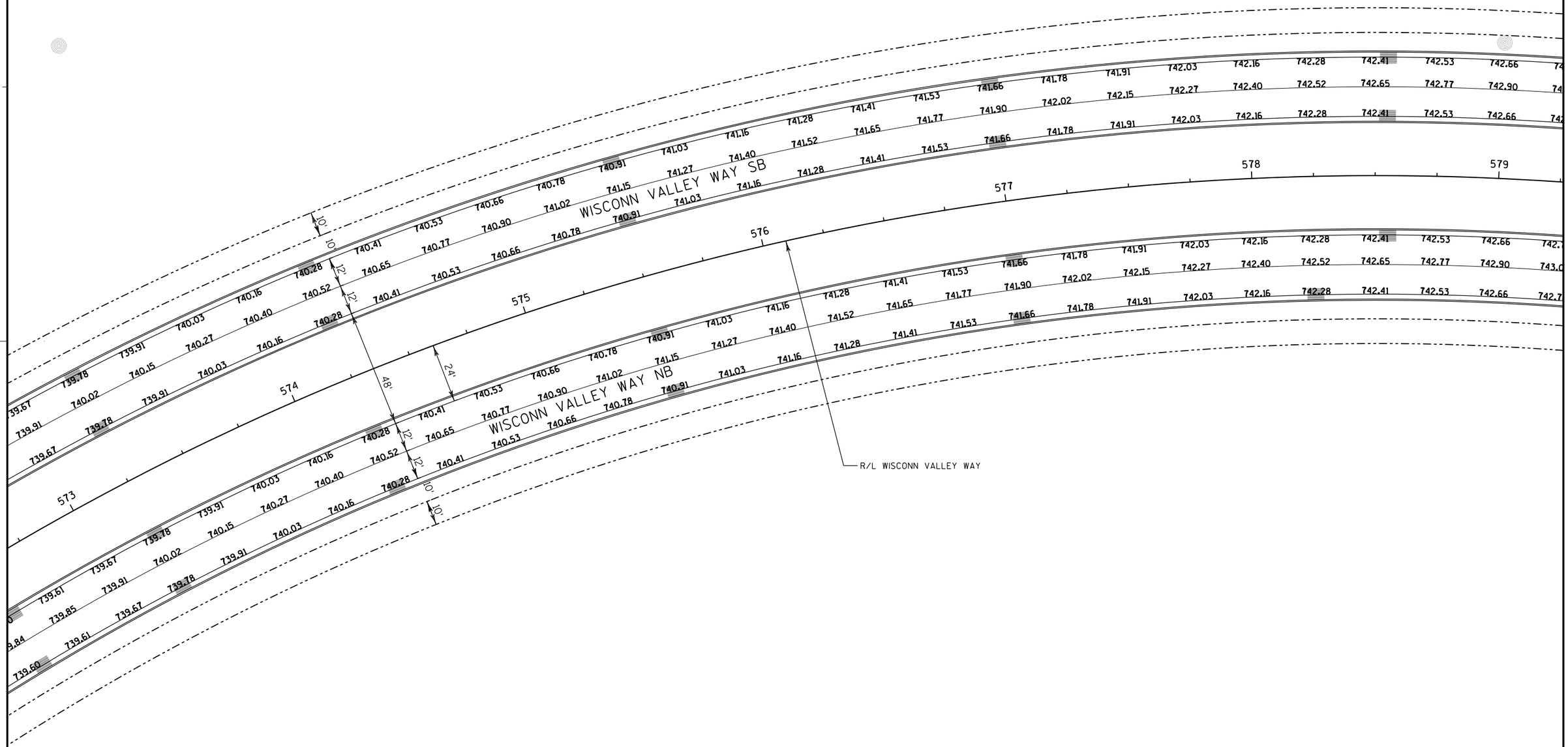
1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25'INTERVALS.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVING GRADES	SHEET 72	E

NOTES:

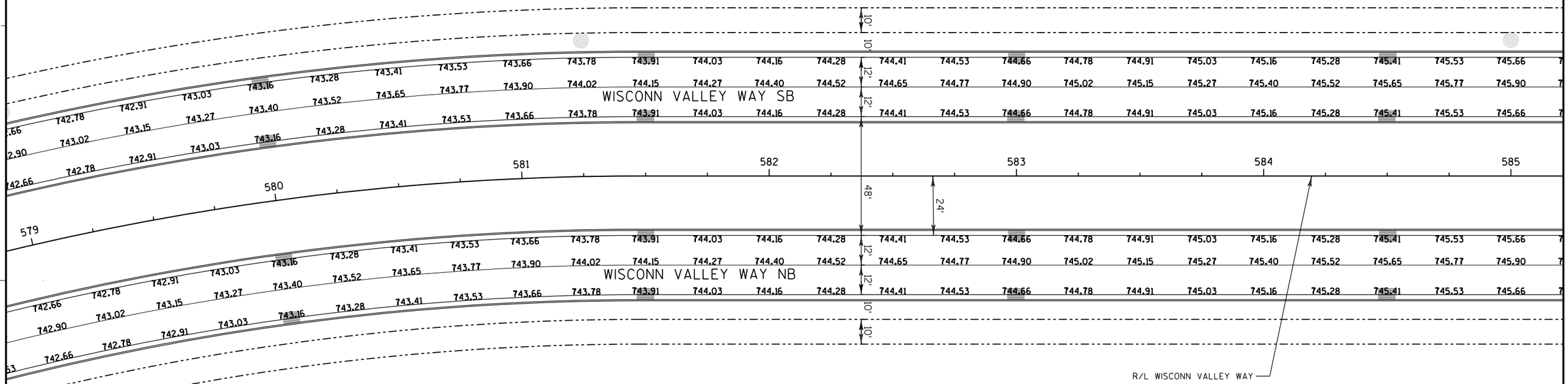
1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25'INTERVALS.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVING GRADES	SHEET 73	E

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25'INTERVALS.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET

N

10'
10'
745.66 745.78 745.89 745.95 745.97 745.95 745.89 745.78 745.66 745.53 745.41 745.28 745.16 745.03 744.91 744.78 744.66 744.53 744.41 744.28 744.16 744.03 743.91 743.84 743.81
12'
745.90 746.02 746.13 746.19 746.21 746.19 746.13 746.02 745.90 745.77 745.65 745.52 745.40 745.27 745.15 745.02 744.90 744.77 744.65 744.52 744.40 744.27 744.15 744.08 744.05
WISCONN VALLEY WAY SB
12'
745.66 745.78 745.89 745.95 745.97 745.95 745.89 745.78 745.66 745.53 745.41 745.28 745.16 745.03 744.91 744.78 744.66 744.53 744.41 744.28 744.16 744.03 743.91 743.84 743.81

585 586 587 588 589 590 591

48'
24'

745.66 745.78 745.89 745.95 745.97 745.95 745.89 745.78 745.66 745.53 745.41 745.28 745.16 745.03 744.91 744.78 744.66 744.53 744.41 744.28 744.16 744.03 743.91 743.84 743.81
12'
745.90 746.02 746.13 746.19 746.21 746.19 746.13 746.02 745.90 745.77 745.65 745.52 745.40 745.27 745.15 745.02 744.90 744.77 744.65 744.52 744.40 744.27 744.15 744.08 744.05
WISCONN VALLEY WAY NB
12'
745.66 745.78 745.89 745.95 745.97 745.95 745.89 745.78 745.66 745.53 745.41 745.28 745.16 745.03 744.91 744.78 744.66 744.53 744.41 744.28 744.16 744.03 743.91 743.84 743.81
10'
10'

R/L WISCONN VALLEY WAY

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVING GRADES	SHEET 74	E

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25'INTERVALS.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET

N

R/L WISCONN VALLEY WAY

WISCONN VALLEY WAY SB

WISCONN VALLEY WAY NB

591 592 593 594 595 596 597

10' 12' 12' 48' 24' 12' 12' 10' 10'

743.81 743.84 743.91 744.03 744.16 744.28 744.41 744.53 744.66 744.78 744.91 745.03 745.16 745.28 745.41 745.53 745.66 745.78 745.91 746.03 746.16 746.30 746.48 746.67 746.89 747.14

744.05 744.08 744.15 744.27 744.40 744.52 744.65 744.77 744.90 745.02 745.15 745.27 745.40 745.52 745.65 745.77 745.90 746.02 746.15 746.27 746.40 746.54 746.72 746.91 747.13 747.38

743.81 743.84 743.91 744.03 744.16 744.28 744.41 744.53 744.66 744.78 744.91 745.03 745.16 745.28 745.41 745.53 745.66 745.78 745.91 746.03 746.16 746.30 746.48 746.67 746.89

744.05 744.08 744.15 744.27 744.40 744.52 744.65 744.77 744.90 745.02 745.15 745.27 745.40 745.52 745.65 745.77 745.90 746.02 746.15 746.27 746.40 746.52 746.65 746.80 746.97

743.81 743.84 743.91 744.03 744.16 744.28 744.41 744.53 744.66 744.78 744.91 745.03 745.16 745.28 745.41 745.53 745.66 745.78 745.91 746.03 746.16 746.28 746.41 746.56 746.73

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVING GRADES	SHEET 75	E

2

2

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

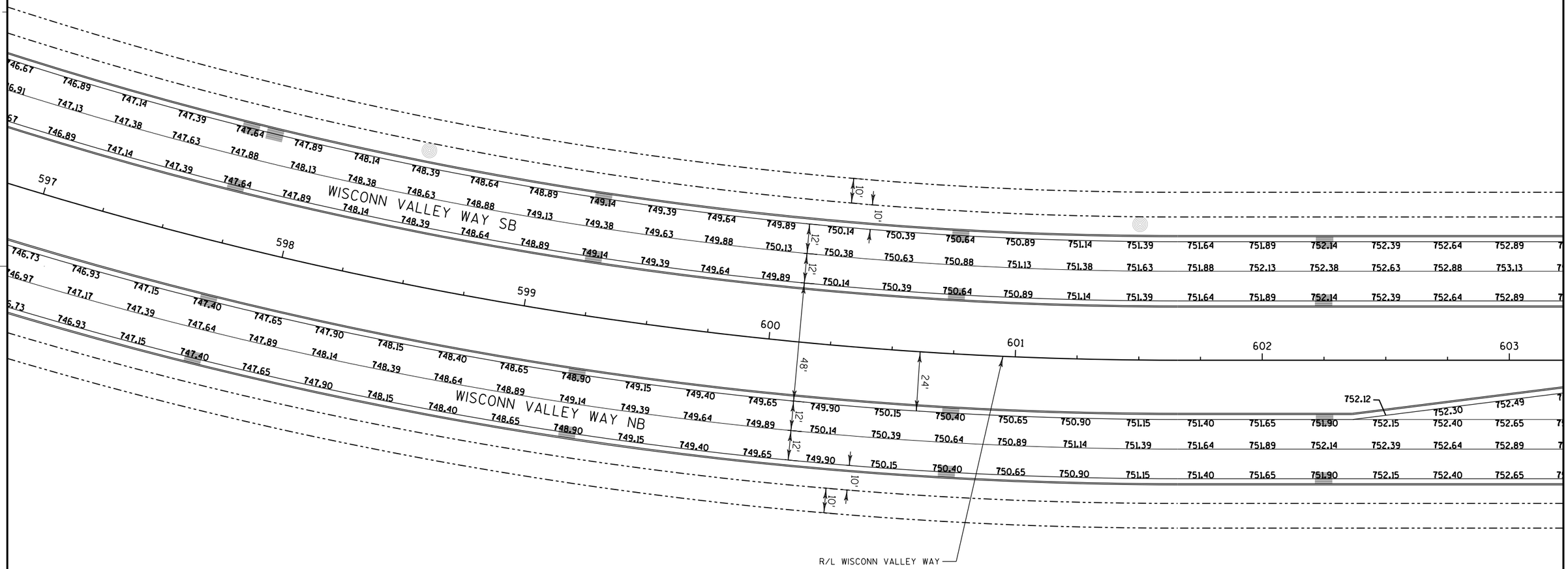
2) PAVING GRADES ARE SHOWN AT 25'INTERVALS.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET

N



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVING GRADES	SHEET 76	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\021247_PG.dgn PLOT DATE : 12/19/2018 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

CROSS SLOPE TRANSITION				
	SOUTHBOUND		NORTHBOUND	
STATION	OUTSIDE LANE	INSIDE LANE	INSIDE LANE	OUTSIDE LANE
604+00.00	2.0% ↙		2.0% ↙	
604+50.00		2.0% ↘		2.0% ↘
605+25.00	0.5% ↘	0.5% ↘	0.5% ↘	0.5% ↘

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25' INTERVALS.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET

N

STH 11

WISCONN VALLEY WAY SB

752.89 753.14 753.39 753.64 753.89 754.20 754.51 754.76 755.01 755.26

753.13 753.38 753.63 753.88 754.13 754.38 754.63 754.82 755.01 755.20

752.89 753.14 753.39 753.64 753.89 754.14 754.39 754.64 754.89 755.14

754.50 754.74 755.01 755.31

END PROJECT 2704-00-76

STA 605+29.12

603 604 605 606

WISCONN VALLEY WAY NB

752.49 752.68 752.91 753.16 753.41 753.72 754.03 754.34 754.65 754.96

752.65 752.90 753.15 753.40 753.65 753.90 754.15 754.40 754.65 754.90

752.89 753.14 753.39 753.64 753.89 754.08 754.27 754.46 754.65 754.84

752.65 752.90 753.15 753.40 753.65 753.84 754.03 754.27 754.49 754.73 754.81

R/L WISCONN VALLEY WAY

157 158 159 160

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVING GRADES	SHEET 77	E

2

N

BEGIN CONSTRUCTION
STA 54BRW+36.47
X=594561.83
Y=170407.23

BRAUN ROAD

R/L BRAUN ROAD WB

R/L BRAUN ROAD EB

MATCHLINE A 60BRE+15

BEGIN CONSTRUCTION
STA A 54BRE+36.41
X=594560.75
Y=170359.24

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25' INTERVALS

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVING GRADES: BRAUN ROAD	SHEET 78	E

2

N

743.44 743.10 742.76 742.41 742.07 741.73 741.39 741.05 740.71 740.39 740.13 739.93 739.79 739.71 739.69 739.72 739.82 739.96 740.10 740.23 740.37 740.51 740.65

743.68 743.34 743.00 742.65 742.31 741.97 741.63 741.29 740.95 740.63 740.37 740.17 740.03 739.95 739.93 739.96 740.06 740.20 740.34 740.47 740.61 740.75 740.89

743.92 743.58 743.24 742.89 742.55 742.21 741.87 741.53 741.19 740.87 740.61 740.41 740.27 740.19 740.17 740.20 740.30 740.44 740.58 740.71 740.85 740.99 741.13

744.16 743.82 743.48 61BRW 743.13 742.79 742.45 742.11 62BRW 741.77 741.43 741.11 740.85 63BRW 740.65 740.51 740.43 740.41 64BRW 740.44 740.54 740.68 740.82 65BRW 740.95 741.09 741.23 741.37

12' 12' 12'

R/L BRAUN ROAD WB

BRAUN ROAD

48'

MATCHLINE A 60BRE+15

R/L BRAUN ROAD EB

744.65 744.31 743.97 743.63 743.28 742.94 742.60 742.26 741.92 741.58 741.26 741.00 740.79 740.65 740.57 740.55 740.53 740.56 740.64 740.71 740.79 740.86 740.94

61BRE 62BRE 63BRE 64BRE

740.59 740.69 740.82 740.96 741.03 741.10 741.18

65BRE

744.41 744.07 743.73 743.39 743.04 742.70 742.36 742.02 741.68 741.34 741.02 740.76 740.55 740.41 740.33 740.31 740.35 740.45 740.58 740.72 740.86 741.00 741.13

744.17 743.83 743.49 743.15 742.80 742.46 742.12 741.78 741.44 741.10 740.78 740.52 740.31 740.17 740.09 740.07 740.11 740.21 740.34 740.48 740.62 740.76 740.89

743.93 743.59 743.25 742.91 742.56 742.22 741.88 741.54 741.20 740.86 740.54 740.28 740.07 739.93 739.85 739.83 739.87 739.97 740.10 740.24 740.38 740.52 740.65

12' 12' 12'

740.31 740.39 740.46

MATCHLINE A 65BRE+85

NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25' INTERVALS

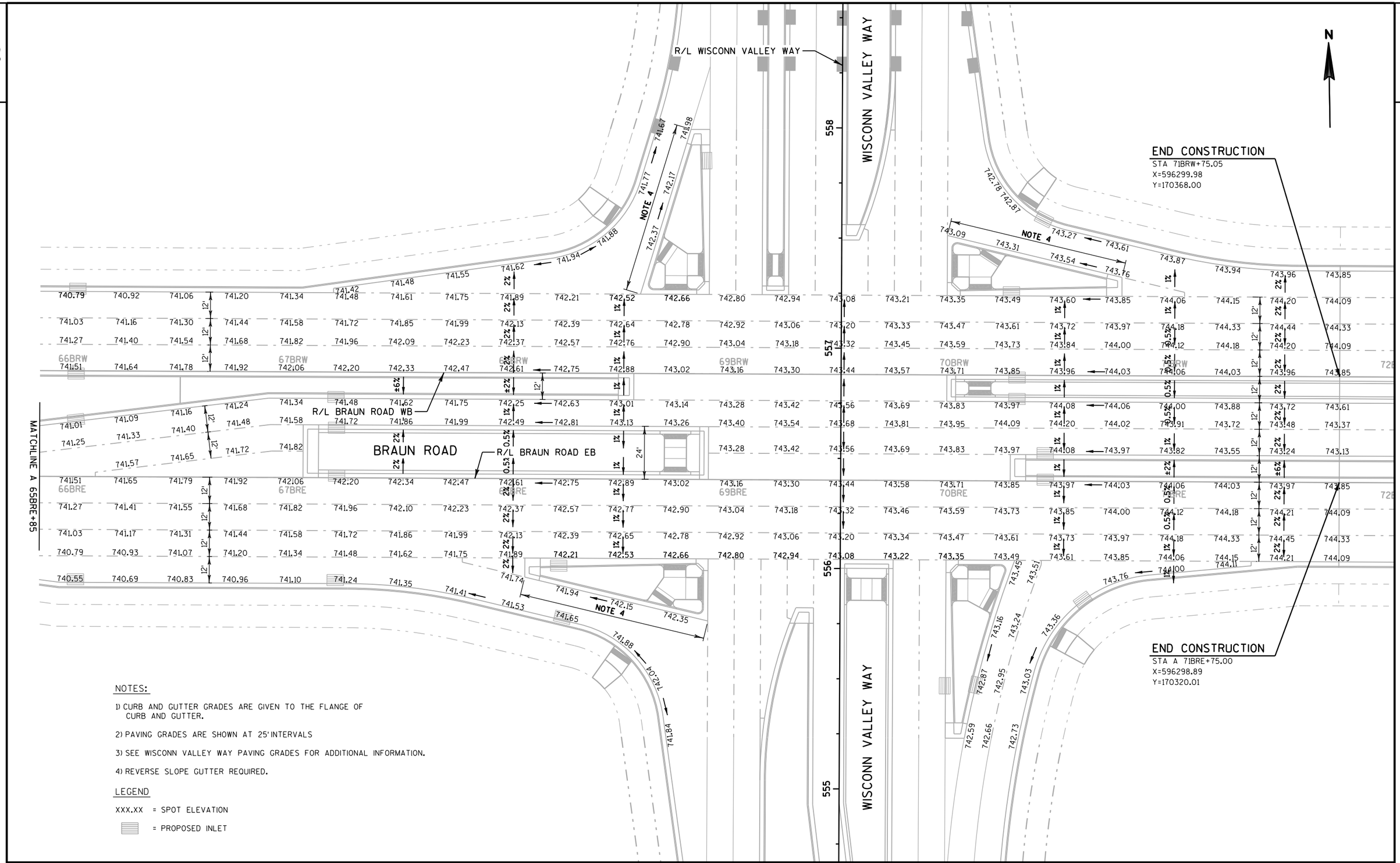
LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVING GRADES: BRAUN ROAD	SHEET 79	E

2



NOTES:

1) CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE OF CURB AND GUTTER.

2) PAVING GRADES ARE SHOWN AT 25' INTERVALS

3) SEE WISCONN VALLEY WAY PAVING GRADES FOR ADDITIONAL INFORMATION.

4) REVERSE SLOPE GUTTER REQUIRED.

LEGEND

XXX.XX = SPOT ELEVATION

= PROPOSED INLET

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVING GRADES: BRAUN ROAD	SHEET 80	E

2

<u>GENERAL NOTES:</u>

THESE PLANS AND THE ASSOCIATED SPECIAL PROVISIONS REFLECT CONDITIONS KNOWN DURING THE DEVELOPMENT OF THE PLANS AND TECHNICAL SPECIAL PROVISIONS. ALL SCALES, DIMENSIONS AND LOCATIONS SHOWN IN THESE PLANS ARE APPROXIMATE. ACTUAL PHYSICAL FIELD CONDITIONS SHALL PROVIDE THE BASIS FOR THE APPLICATION OF WORK SHOWN IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE APPLICATION OF ALL WORK SHOWN IN THE PLANS TO THE ACTUAL PHYSICAL FIELD CONDITIONS TO PROVIDE A COMPLETE AND ACCEPTED PROJECT. IN THE EVENT THAT ACTUAL PHYSICAL FIELD CONDITIONS AFFECT OR PREVENT THE APPLICATION OR PROGRESSION OF ANY WORK SHOWN IN THE PLANS OR TECHNICAL SPECIAL PROVISIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, AND PRIOR TO ANY FURTHER WORK ACTIVITY. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY LOCATION CHANGES OTHER THAN MINOR ADJUSTMENTS.

BE AWARE THAT ALL EXISTING UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES WITHIN THE SCOPE OF THIS PROJECT MAY NOT BE LOCATED IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES.

BE AWARE THAT NO TEST BORINGS WERE MADE WHERE CONDUITS, PULLBOXES, POLES, CABINET FOUNDATIONS, OR OTHER EQUIPMENT IS TO BE INSTALLED. THE CONTRACTOR IS FULLY RESPONSIBLE FOR EXAMINING THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS.

NO TREES (AND/OR SHRUBS) ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

AREAS WITHIN THE RIGHT-OF-WAY DISTURBED SPECIFICALLY FOR FTMS CONSTRUCTION ARE TO BE RESTORED TO THE ORIGINAL CONDITION WITH TOPSOIL, FERTILIZER, SEED, AND MULCH. RESTORATION FOR AREAS DISTURBED FOR OTHER CONSTRUCTION OPERATIONS BUT ALSO CONTAINING FTMS CONSTRUCTION WILL BE DONE ACCORDING TO REQUIREMENTS AND PAYMENT PROVISIONS FOR THE OTHER CONSTRUCTION OPERATIONS. NO PAYMENT WILL BE MADE FOR RESTORING AREAS DISTURBED FOR FTMS CONSTRUCTION OPERATIONS.

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

DUE TO RAMP, LANE, SHOULDER CLOSURE RESTRICTIONS, AND WORK UNDER OTHER CONTRACTS, SOME WORK MAY BE REQUIRED TO BE PERFORMED AT NIGHT.

THE CONTRACTOR IS FULLY RESPONSIBLE FOR COORDINATING RAMP, LANE, SHOULDER, AND ROADWAY CLOSURES WITH OTHER CONTRACTS IN THE AREA.

THE CONTRACTOR IS TO CONTACT THE WISDOT STATEWIDE TRAFFIC OPERATIONS CENTER AT (414) 227-2166 FIVE (5) WORKING DAYS PRIOR TO ENTERING ANY EXISTING WISDOT FTMS OR ITS CABINET.

HAND DIG TRENCHES CROSSING EXISTING CONDUIT CONTAINING FIBER OPTIC CABLE.

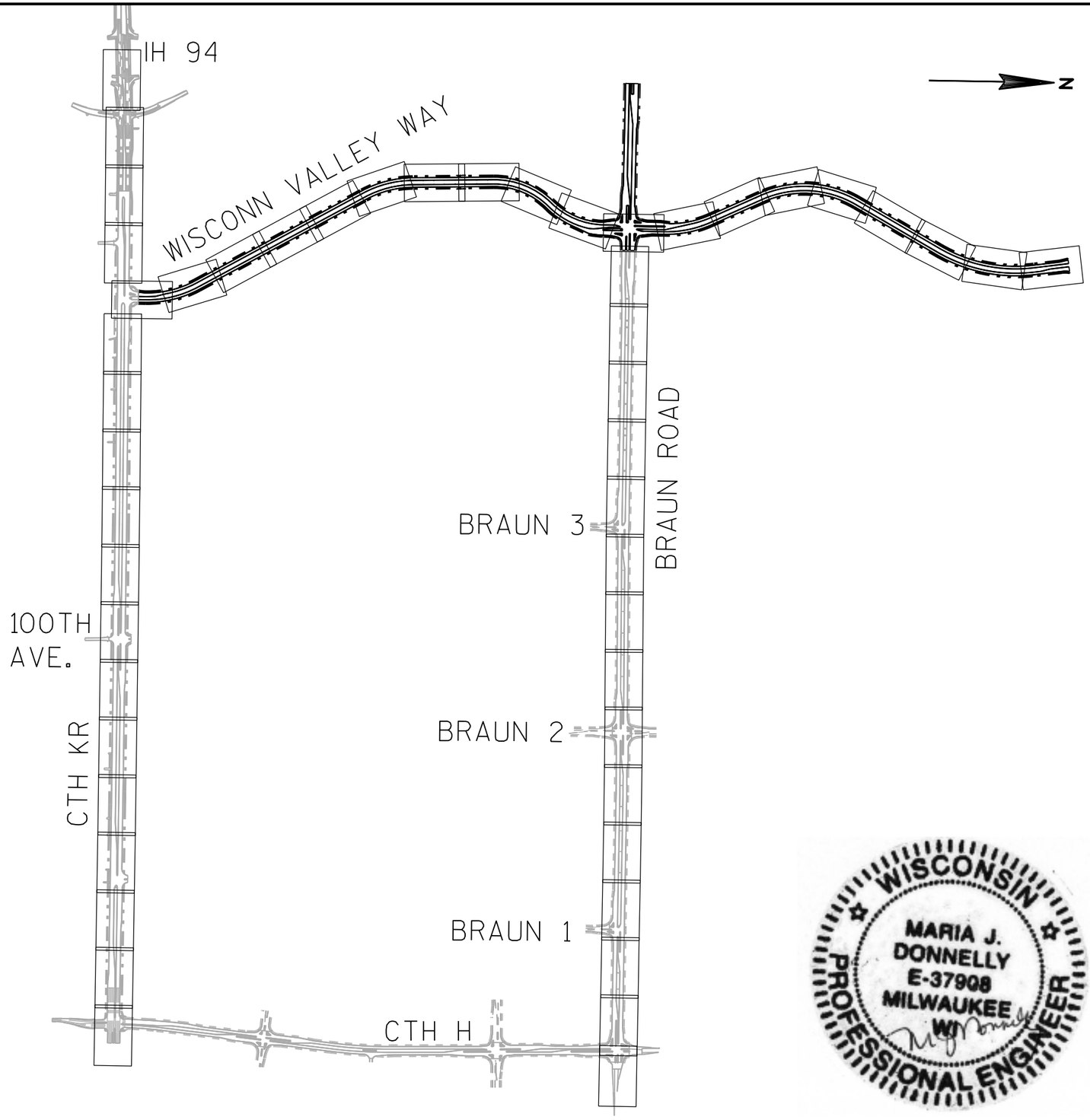
VISUALLY VERIFY DEPTHS OF EXISTING CONDUITS CONTAINING FIBER OPTIC CABLE PRIOR TO CROSSING BY DIRECTIONAL BORE OR SPECIAL METHOD.

INSTALL CONDUIT BELOW FUTURE MULTIUSE PATH SO AS NOT TO BE DISTURBED WHEN THE PATH IS CONSTRUCTED. INSTALL CONDUIT AND VAULTS AROUND PROPOSED IRRIGATION SYSTEM.

FTMS STANDARD ABBREVIATIONS

CCTV	CLOSED CIRCUIT TELEVISION SITE
CB	CONTROLLER CABINET
PB	PULL BOX
CV	COMMUNICATIONS VAULT
F.O.	FIBER OPTIC
FOC	FIBER OPTIC CABLE
EX	EXISTING

LEGEND	EXISTING	PROPOSED
FTMS CONVENTIONAL SYMBOLS		
FTMS (ITS) CONDUIT		
COMMUNICATIONS VAULT, TYPE 1	CV	CV
CCTV CAMERA AND POLE		
POLE MOUNTED CABINET		
METER BREAKER PEDESTAL		
BREAKER DISCONNECT BOX		



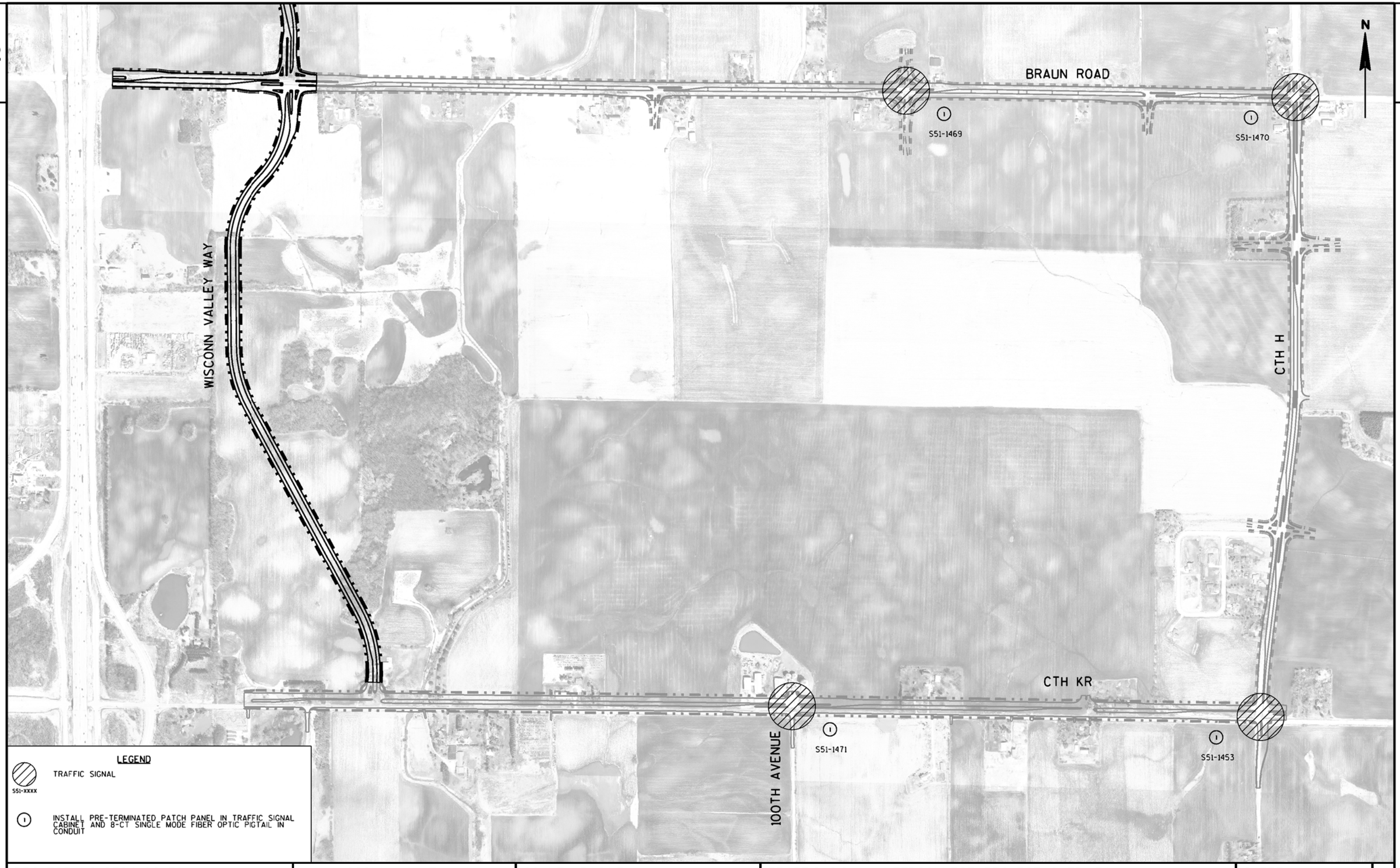
WISCONSIN
MARIA J. DONNELLY
E-37908
MILWAUKEE
WI
PROFESSIONAL ENGINEER

2

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS - OVERVIEW	SHEET 81	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PLOTS\2704007_20181204233...dgn PLOT BY : Mdonnelly PLOT NAME : PLOT SCALE : 1200:1

WISDOT/CADDS SHEET 42

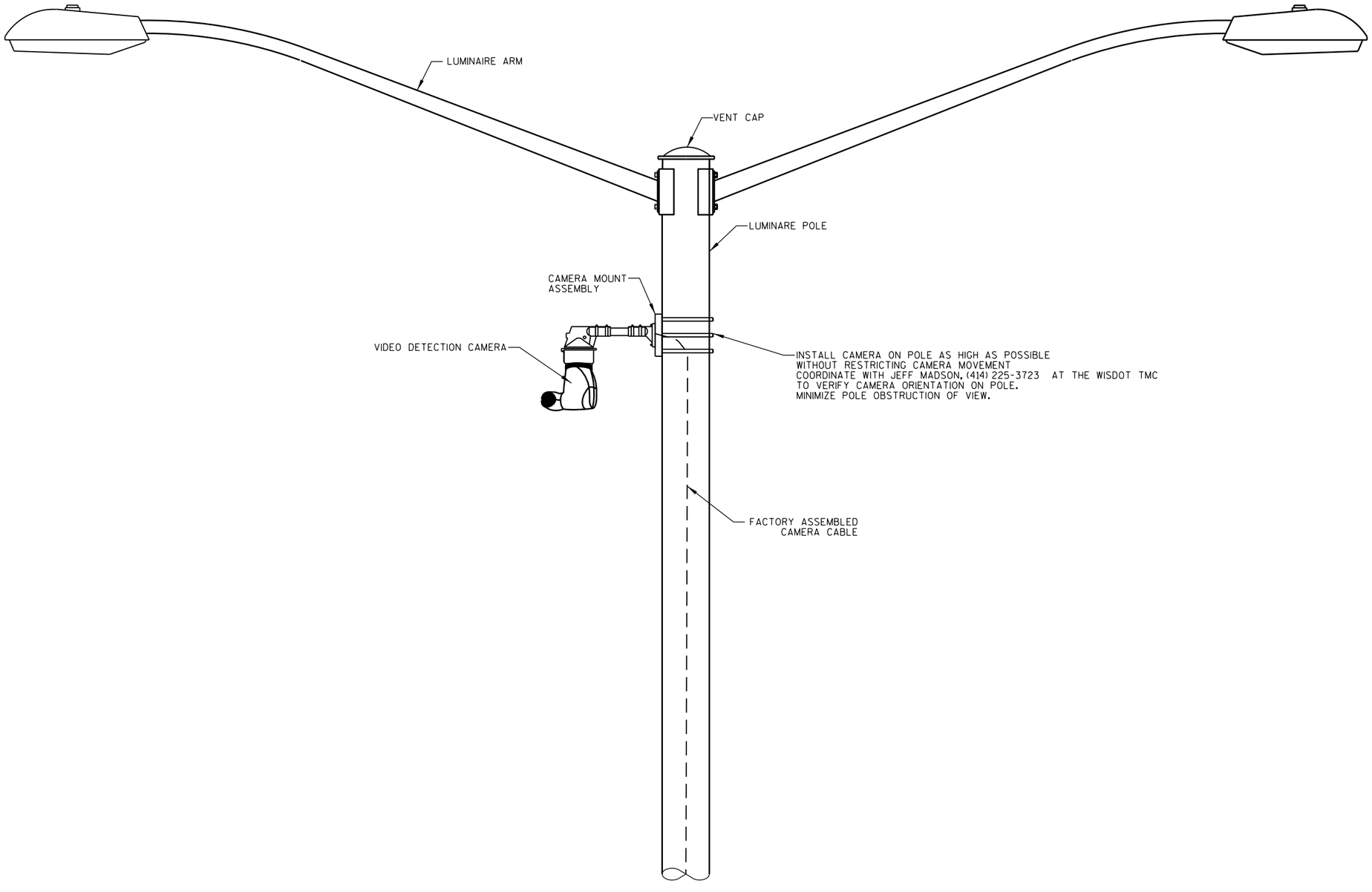


PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	TRAFFIC SIGNAL INTERCONNECT PROJECT OVERVIEW	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PLOTS\E41011_27_2018 8:55:13 AM PLOT BY : mjmay PLOT NAME : PLOT SCALE : 750:1

WISDOT/CADDS SHEET 42

2



CCTV MOUNTING DETAIL

(LUMINAIRE OR SIGNAL POLE MOUNT)

NOT TO SCALE

2

KEY

PROPOSED / EXISTING (OR BY OTHERS) FUSION SPLICE

FIBER LEFT BARE

PROPOSED / EXISTING COMPONENT

PROPOSED 8 COUNT FOC PIGTAIL TO TRAFFIC SIGNAL CABINET

PROPOSED 72 COUNT FOC ON CTH KR

PROPOSED 72 COUNT FOC ON CTH KR (NEXT DIAGRAM AT EXCV805)

PROPOSED 72 COUNT FOC ON BRAUN ROAD (NEXT DIAGRAM AT EXCV123)

PROPOSED 72 COUNT FOC ON CTH KR

PROPOSED 72 COUNT FOC ON WISCONN VALLEY WAY

PROPOSED 24 COUNT FOC TO SOUTH IH 41 / 94 (BY OTHERS)

PROPOSED 24 COUNT FOC TO NORTH IH 41 / 94 (BY OTHERS)

PROPOSED 8 COUNT FOC PIGTAIL TO TRAFFIC SIGNAL CABINET

PROPOSED 72 COUNT FOC ON WISCONN VALLEY WAY (NEXT DIAGRAM AT EXCV159)

COMMUNICATIONS VAULT (EXCV376)

FIBER OPTIC SPLICE ENCLOSURE (STATE-FURNISHED)

OTHER TUBES

ORANGE TUBE

OTHER TUBES STRANDS TO BE LEFT UNSPLICED

ORANGE/AQUA, ORANGE/ROSE, ORANGE/VIOLET, ORANGE/YELLOW, ORANGE/BLACK, ORANGE/RED, ORANGE/WHITE, ORANGE/SLATE, ORANGE/BROWN, ORANGE/GREEN, ORANGE/ORANGE, ORANGE/BLUE

ORANGE TUBE

BLUE TUBE

OTHER TUBES STRANDS TO BE LEFT UNSPLICED

COMMUNICATIONS VAULT (EXCV411)

BLUE TUBE

FIBER OPTIC SPLICE ENCLOSURE (STATE-FURNISHED)

ORANGE/BLUE, ORANGE/ORANGE, ORANGE/GREEN, ORANGE/BROWN, ORANGE/SLATE, ORANGE/WHITE, ORANGE/RED, ORANGE/BLACK, ORANGE/YELLOW, ORANGE/VIOLET, ORANGE/ROSE, ORANGE/AQUA

ORANGE TUBE

OTHER TUBES

OTHER TUBES STRANDS TO BE LEFT UNSPLICED

ORANGE TUBE

OTHER TUBES

COMMUNICATIONS VAULT (EXCV01N)

ORANGE TUBE

OTHER TUBES

OTHER TUBES STRANDS TO BE LEFT UNSPLICED

FIBER OPTIC SPLICE ENCLOSURE (EXISTING)

ORANGE/BLUE, ORANGE/ORANGE, ORANGE/GREEN, ORANGE/BROWN, ORANGE/SLATE, ORANGE/WHITE, ORANGE/RED, ORANGE/BLACK, ORANGE/YELLOW, ORANGE/VIOLET, ORANGE/ROSE, ORANGE/AQUA

ORANGE TUBE

BLUE TUBE

DO NOT DISTURB BLUE BUFFER TUBE

ORANGE TUBE

BLUE TUBE

COMMUNICATIONS VAULT (CV555)

FIBER OPTIC SPLICE ENCLOSURE (STATE-FURNISHED)

OTHER TUBES

ORANGE TUBE

ORANGE/AQUA, ORANGE/ROSE, ORANGE/VIOLET, ORANGE/YELLOW, ORANGE/BLACK, ORANGE/RED, ORANGE/WHITE, ORANGE/SLATE, ORANGE/GREEN, ORANGE/ORANGE, ORANGE/BLUE

BLUE TUBE

ORANGE/BLUE, ORANGE/ORANGE, ORANGE/GREEN, ORANGE/BROWN, ORANGE/SLATE, ORANGE/WHITE, ORANGE/RED, ORANGE/BLACK

ORANGE TUBE

OTHER TUBES

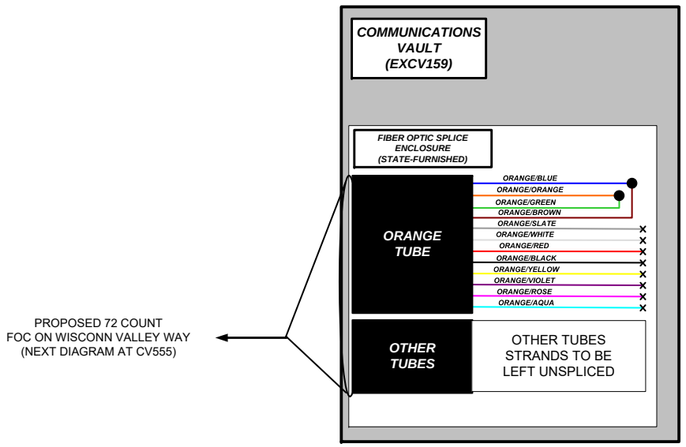
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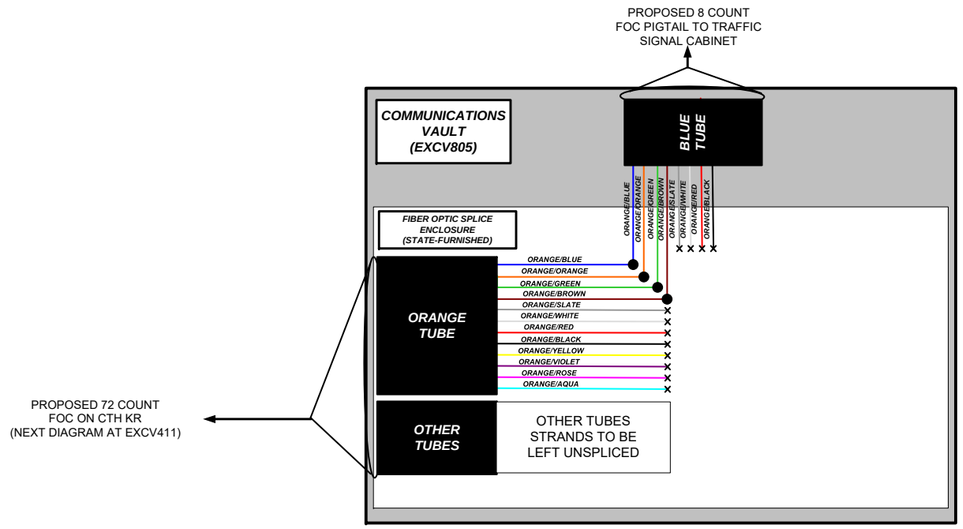
ORANGE TUBE

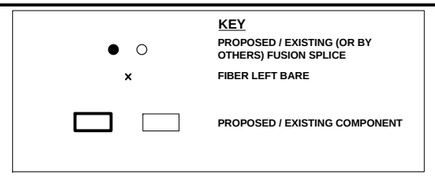
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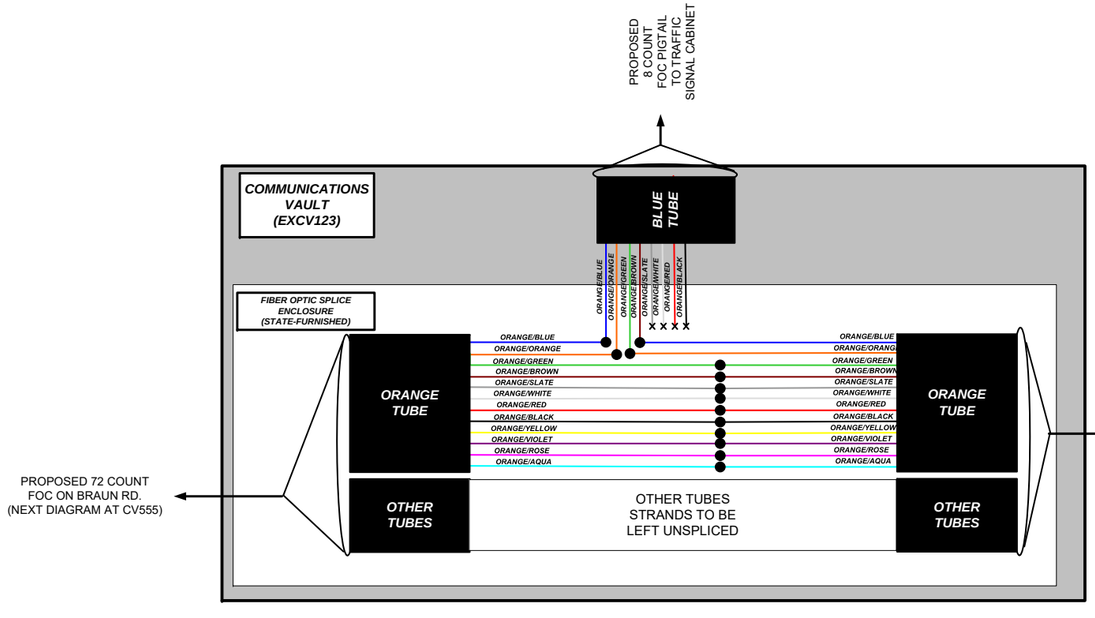
PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	FTMS PLANS - COMMUNICATIONS DETAILS	SHEET E

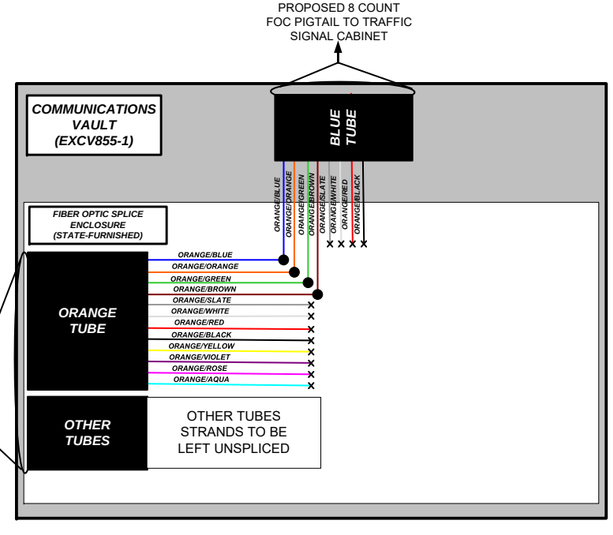
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PROPOSED 72 COUNT FOC ON BRAUN ROAD

2

MATCHLINE 373+50

N

EXCV374

374

I/C CV101

40'

501

502

503

504

WISCONN VALLEY WAY

MATCHLINE 504WCV+75

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

CV502
LOCATE EXISTING CONDUIT
INSTALLED WITH PROJECT ID 2704-00-77
AND INSTALL INTO PROPOSED VAULT

(2) 2-INCH HDPE DUCTS
(1) WITH (1) 72-COUNT FOC (S-F)
AND (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

EXCV376
(14) F.O. SPLICES
IN SPLICE ENCLOSURE (S-F)

376

EXCV376L

CTH KR

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

MATCHLINE 373+50

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 86	E

2

N

G

G

G

MATCHLINE 510WCV+25

510

509

WISCONN VALLEY WAY

508

507

506

505

MATCHLINE 504WCV+75

(2) 2-INCH HDPE DUCTS
(1) WITH (1) 72-COUNT FOC (S-F)
AND (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

SAN

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SAN

SAN

HW

HW

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 87	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PLOTS\WCVW_ITS_PLANS_21.dgn 28 Feb 2018 1:43:50 PM PLOT BY : Mdonnelly PLOT NAME : PLOT SCALE : 40:1

2

N

G G G G G

MATCHLINE 510WCV+25

511 512 WISCONN VALLEY WAY 513 514 515

MATCHLINE 515WCV+75

CV513

(2) 2-INCH HDPE DUCTS
(1) WITH (1) 72-COUNT FOC (S-F)
AND (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

(2) 2-INCH HDPE DUCTS
(1) WITH (1) 72-COUNT FOC (S-F)
AND (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

SAN SAN SAN SAN SAN

MH MH

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 88	E

2

N

G G G G

MATCHLINE 515WCV+75

516 517 518 WISCONN VALLEY WAY 519 520 521

MATCHLINE 521WCV+25

(2) 2-INCH HDPE DUCTS
(1) WITH (1) 72-COUNT FOC (S-F)
AND (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

N SAN SAN SAN MH SAN

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 89	E

2

N

G G G G

WISCONN VALLEY WAY

522 523 524 525 526

MATCHLINE 521WCV+25

MATCHLINE 526WCV+75

CV525

(2) 2-INCH HDPE DUCTS
(1) WITH (1) 72-COUNT FOC (S-F)
AND (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

(2) 2-INCH HDPE DUCTS
(1) WITH (1) 72-COUNT FOC (S-F)
AND (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

SAN SAN SAN SAN

HWM

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 90	E

2

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G

SAN

WISCONN VALLEY WAY

527
528
529
530
531
532

MATCHLINE 526WCV+75

MATCHLINE 532WCV+25

SAN

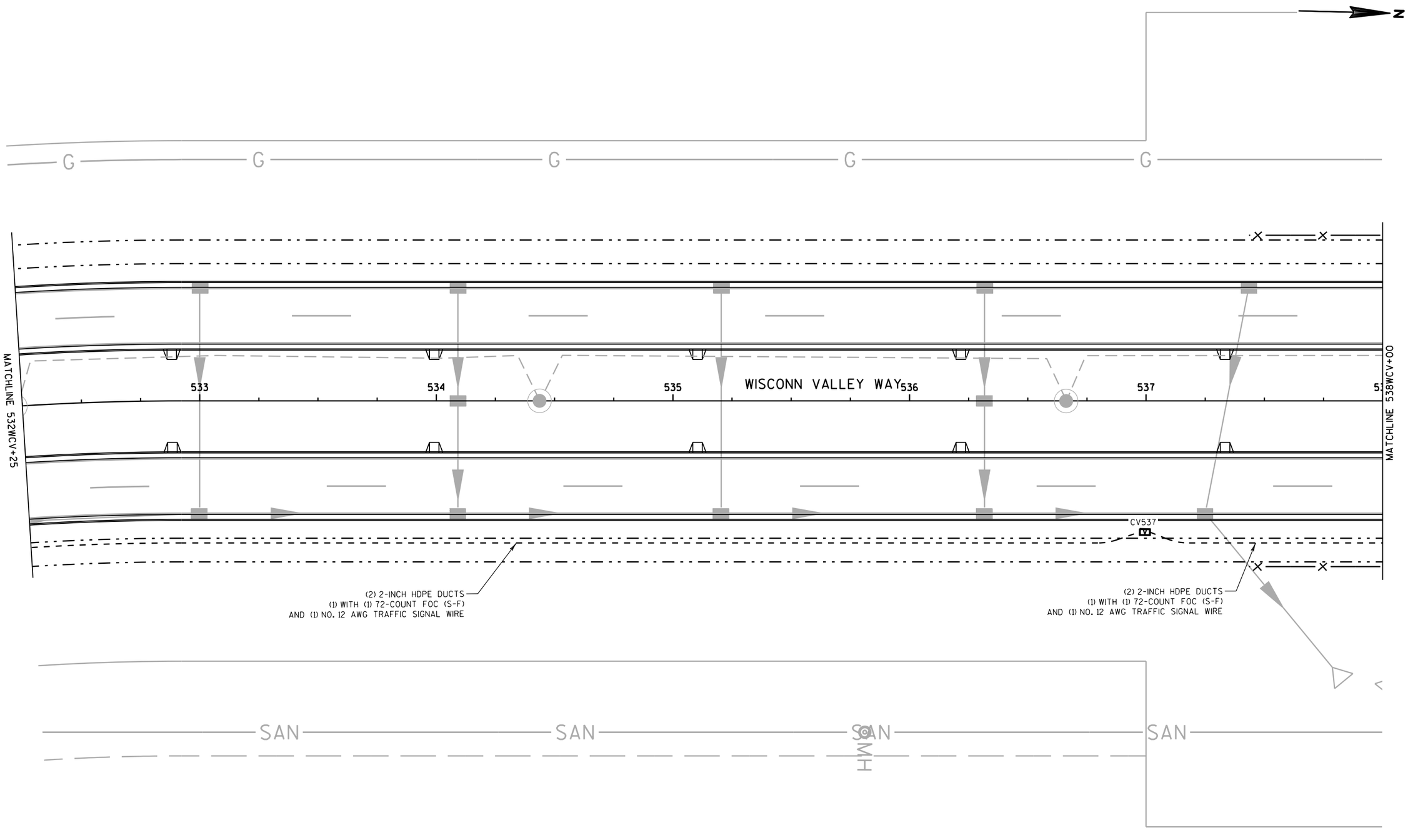
(2) 2-INCH HDPE DUCTS
(1) WITH (1) 72-COUNT FOC (S-F)
AND (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

SAN
SAN
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SAN
SAN

MH
MH

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 91	E

2



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET	E

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2

N

G G G G G

WISCONN VALLEY WAY

538

539

540

541

542

543

MATCHLINE 538WCV+00

MATCHLINE 543WCV+25

(2) 2-INCH HDPE DUCTS
(1) WITH (1) 72-COUNT FOC (S-F)
AND (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

SAN SAN SAN SAN

MH MH

SAI

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 93	E

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2

N

WISCONN VALLEY WAY

544 545 546 547 548

MATCHLINE 543WCV+25

MATCHLINE 549WCV+00

(2) 2-INCH HDPE DUCTS
(1) WITH (1) 72-COUNT FOC (S-F)
AND (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

CV549

G G G G G

SAN SAN SAN SAN

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PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 94	E

2

N

G

G

G

MATCHLINE 549WCV+00

MATCHLINE 554WCV+25

549

550

551

552

553

554

WISCONN VALLEY WAY

CV549

(2) 2-INCH HDPE DUCTS
(1) WITH (1) 72-COUNT FOC (S-F)
AND (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

SAN

SAN

SAN

SAN

MH

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET	E

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2

N

TRAFFIC SIGNAL CABINET

SB18

CAMERA ORIENTATION

CCTV-51-0231
INSTALL CAMERA CABLE
IN TRAFFIC SIGNAL CONDUIT
TO TRAFFIC SIGNAL CABINET
INCIDENTAL TO ITEM 677.0200
INSTALL CAMERA ASSEMBLY

69BRE

69BRW

70BRE

70BRW

71BRE

71BRW

MATCHLINE 554WCV+25

MATCHLINE 560WCV+00

555

556

557

558

559

CV555
(16) F.O. SPLICES
IN SPLICE ENCLOSURE (S-F)

CV558

(2) 2-INCH HDPE DUCTS
(1) WITH (1) 72-COUNT FOC (S-F)
AND (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

(2) 2-INCH HDPE DUCTS
(1) WITH (1) 72-COUNT FOC (S-F)
AND (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

(2) 2-INCH HDPE DUCTS
(1) WITH (1) 72-COUNT FOC (S-F)
AND (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

(2) 2-INCH HDPE DUCTS
(1) WITH (1) 72-COUNT FOC (S-F)
AND (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

EXCV71

BRAUN RD.

ONLY

MATCHLINE 71BRW+50

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 96	E

2

N

W G W G W G W

MATCHLINE 560WCV+00

MATCHLINE 565WCV+75

560 561 562 563 564 565

WISCONN VALLEY WAY

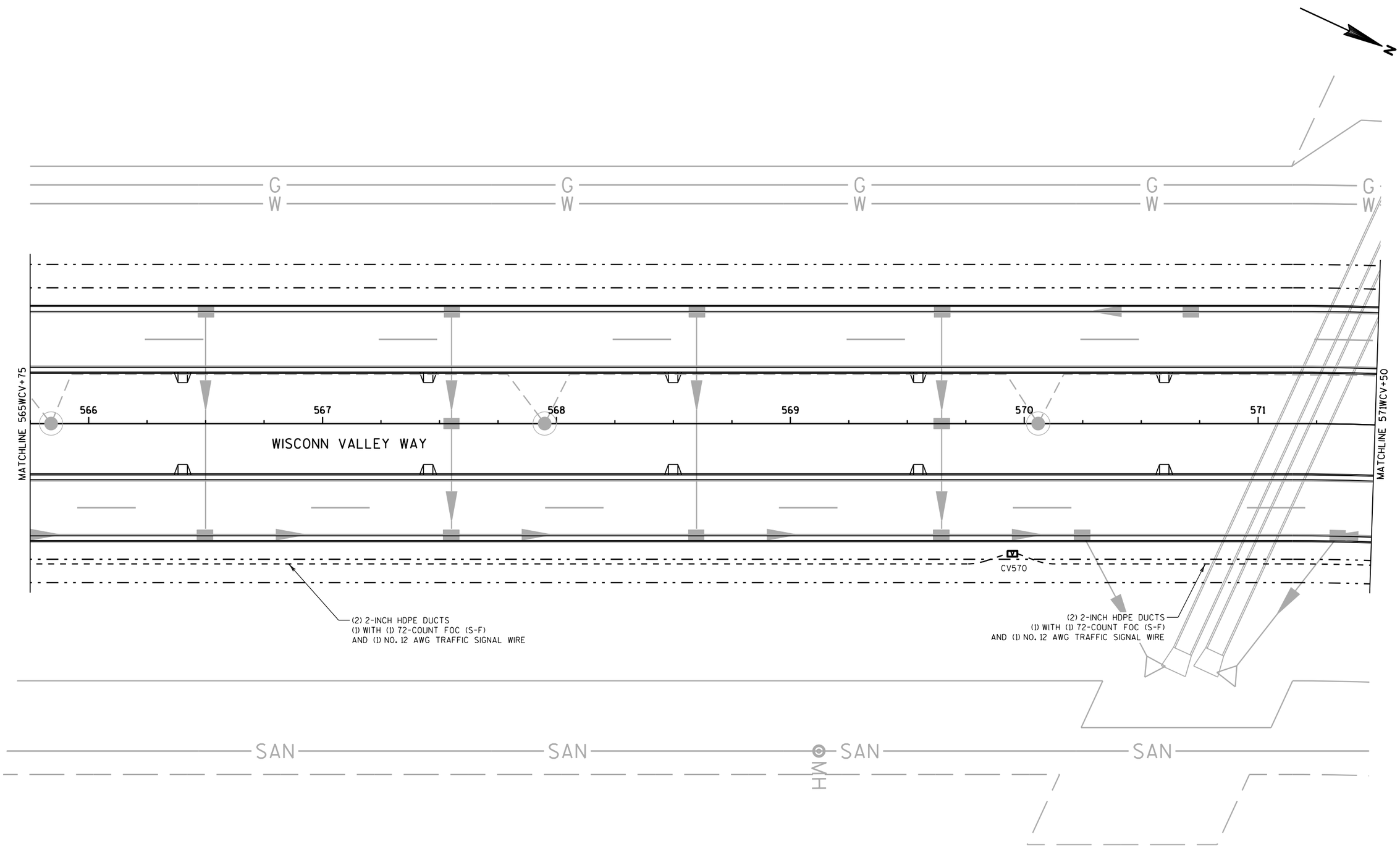
(2) 2-INCH HDPE DUCTS
(1) WITH (1) 72-COUNT FOC (S-F)
AND (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

SAN MH SAN SAN MH SAN MH SAN

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 97	E

2

2



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 98	E

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WISDOT/CADDS SHEET 42

2

2

N

G
W

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W

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W

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W

572

573

574

575

576

577

WISCONN VALLEY WAY

MATCHLINE 571WCV+50

MATCHLINE 577WCV+25

(2) 2-INCH HDPE DUCTS
(1) WITH (1) 72-COUNT FOC (S-F)
AND (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

SAN

MH

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SAN

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 99	E

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WISDOT/CADDS SHEET 42

2

N

G
W

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W

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W

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W

WISCONN VALLEY WAY

578

579

580

581

582

MATCHLINE 577WCV+25

MATCHLINE 582+50

(2) 2-INCH HDPE DUCTS
(1) WITH (1) 72-COUNT FOC (S-F)
AND (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

CV582

(2) 2-INCH HDPE DUCTS
(1) WITH (1) 72-COUNT FOC (S-F)
AND (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

SAN

SAN

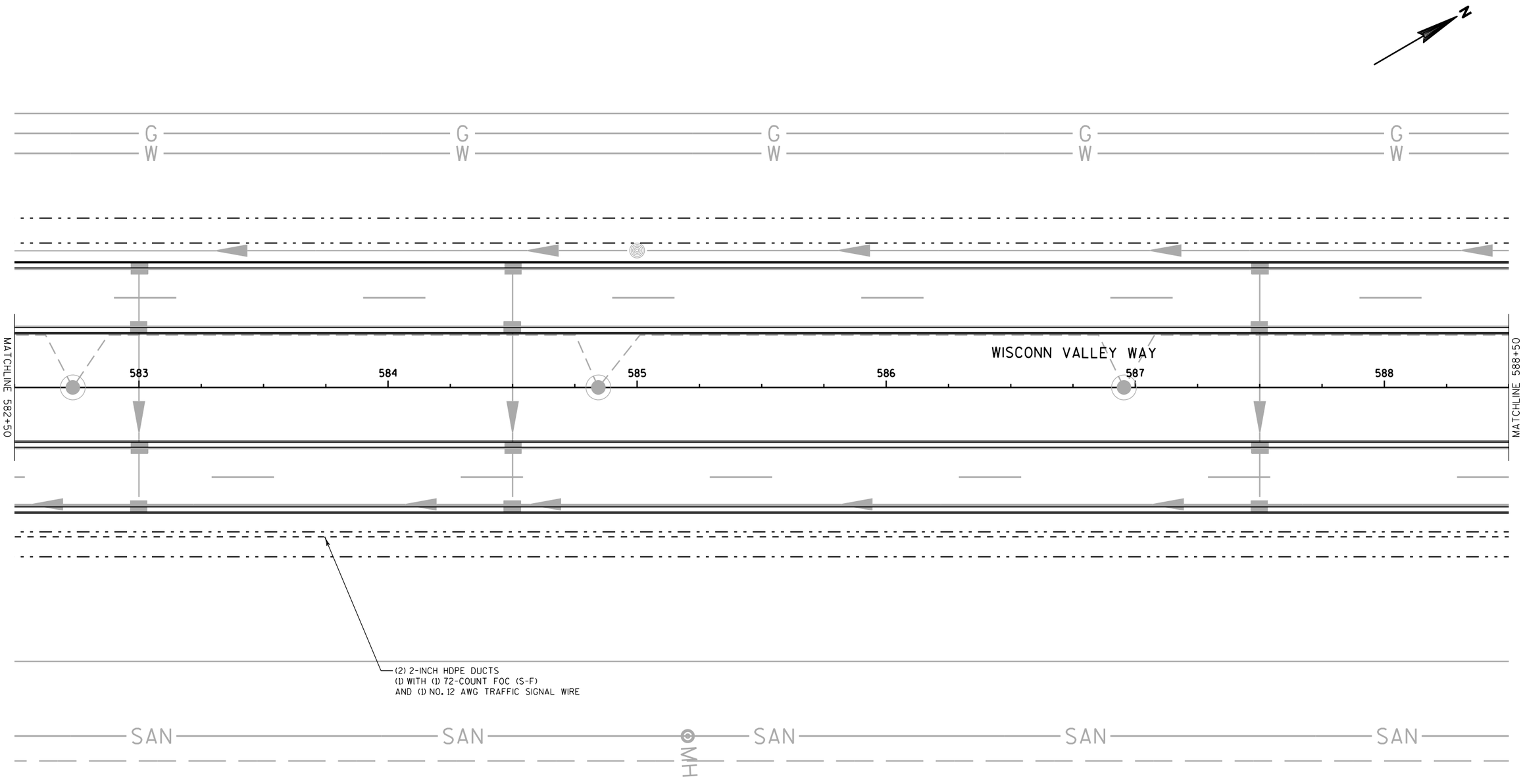
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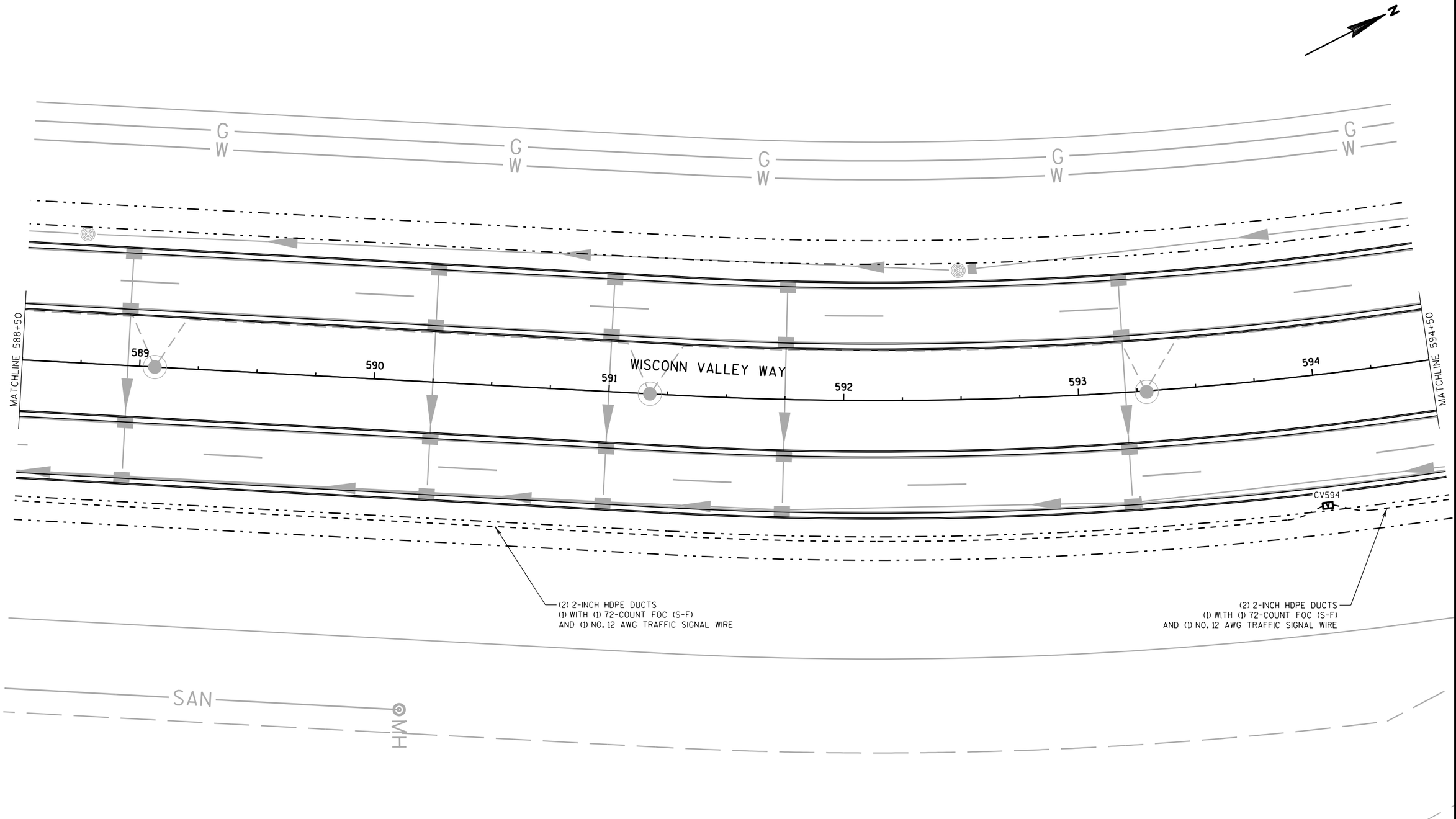
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2



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 101	E

2



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 102	E

2

N

G
W
G
W
G
W
G
W

MATCHLINE 594+50

595

596

597

WISCONN VALLEY WAY

598

599

600

MATCHLINE 600+50

(2) 2-INCH HDPE DUCTS
(1) WITH (1) 72-COUNT FOC (S-F)
AND (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 103	E

2

2

N

G W

WISCONN VALLEY WAY

MATCHLINE 600+50

601 602 603 604 605 606

STH 11

(2) 2-INCH HDPE DUCTS
(1) WITH (1) 72-COUNT FOC (S-F)
AND (1) NO. 12 AWG TRAFFIC SIGNAL WIRE

CV605
LOCATE EXISTING CONDUIT
INSTALLED WITH PROJECT ID 1320-23-70
AND INSTALL INTO PROPOSED VAULT

IN 2-INCH HDPE DUCT
INSTALLED WITH PROJECT ID 1320-23-70
INSTALL (1) 72-COUNT FOC (S-F)

EXCV159
(2) F.O. SPLICES
IN F.O. SPLICE ENCLOSURE (S-F)

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 104	E

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WISDOT/CADDS SHEET 42

2

2

IH 94 NB ENTRANCE RAMP

EXCV01N

(4) F.O. SPLICES IN EXISTING SPLICE ENCLOSURE

G

G

G

G

IN EXISTING CONDUIT
(1) 72-COUNT FOC (S-F)

CTH KR

MATCHLINE FM SHT 21

IH 94 SB

IH 94 NB

IN EXISTING CONDUIT
(1) 72-COUNT FOC (S-F)

IH 94 NB EXIT RAMP

IH 94 NB EXIT RAMP

EXCV01S

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 105	E

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WISDOT/CADDS SHEET 42

2

2

N

EAST FRONTAGE ROAD

G

E

MATCHLINE FM SHT 20

MATCHLINE FM SHT 22

CTH KR

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

EXCV02

OHOH

EAST FRONTAGE ROAD

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET	E

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WISDOT/CADDS SHEET 42

2

2

N

G

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G

G

MATCHLINE FM SHT 21

CTH KR

365

366

367

MATCHLINE 367+50

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

EXCV364

OHOH

OHOH

OHOH

OHOH

OHOH

OHOH

G

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G

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 107	E

2

N

CTH KR

MATCHLINE 367+50

368

369

370

371

372

373

MATCHLINE 373+50

15

14

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

EXCV370

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

113TH AVE.

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 108	E

2

N

SAN SAN SAN MH SAN SAI

G G G G

CTH KR

MATCHLINE 373+50

377 378 379 380 381 382 38

MATCHLINE 383+00

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

G G G G

OH OH OH OH OH OI

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 109	E

2

N

SAN SAN SAN MH SAN

G G G G G

CTH KR

MATCHLINE 383+00

383 384 385 386 387 388 389

MATCHLINE 389+00

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

EXCV389

G G G G G

OH OH OH OH OH

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 110	E

2

N

SAN SAN SAN SAN SAN

MH

G G G G G

CTH KR

MATCHLINE 389+00

389 390 391 392 393 394 395

MATCHLINE 395+00

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

EXCV389

G G G G G

OH OH OH OH OH

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 111	E

2

2

N

SAN SAN SAN SAN MH SAN SAN

G G G G G G

CTH KR

MATCHLINE 395+00

395 396 397 398 399 400 401

MATCHLINE 401+00

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

G G G G G G

OH OH OH OH OH OH

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 112	E

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WISDOT/CADDS SHEET 42

2

2

N

SAN

SAN

SAN

SAN

SAN

G

G

G

G

CTH KR

MATCHLINE 401+00

401

402

403

404

405

406

407

MATCHLINE 407+00

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

EXCV402

G

G

G

G

OH

OH

OH

OH

OH

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 113	E

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WISDOT/CADDS SHEET 42

2

N

SAN SAN SAN SAN SAN

G G G G G

OH OH OH OH

CTH KR

MH

28

27

26

25

MATCHLINE 407+00

MATCHLINE 413+00

407 408 409 410 411 412 413

EXCV411
(14) F.O. SPLICES
IN SPLICE ENCLOSURE (S-F)

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

EXCV410

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

CB1
(S51-1471)

INSTALL 8-COUNT FOC PIGTAIL
IN EXISTING CONDUIT

100TH AVE.

45'

25'

RE 1

RE 2

RE 3

B

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 114	E

2

2

N

SAN SAN MH SAN SAN SAN

G G G G G

CTH KR

MATCHLINE 413+00

413 414 415 416 417 418 419

MATCHLINE 419+00

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

G G G G G

OH OH OH OH OH

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PLOTS\ITS\ITS01.dgn 7/27/2018 6:53:05 PM PLOT BY : Mdonnelly PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

2

N

SAN SAN MH SAN SAN SAN

G G G G G

CTH KR

MATCHLINE 419+00

419 420 421 422 423 424 42

MATCHLINE 425+00

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

EXCV424

G G G G G

OH OH OH OH OH

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 116	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PLOTS\WCZ14311_ITS.dgn PLOT DATE : 11/27/2018 6:53:25 PM PLOT BY : Mdonnelly PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

2

N

SAN

SA

MH

SAN

SAN

SAN

G

G

G

G

CTH KR

MATCHLINE 425+00

425

426

427

428

429

430

431

MATCHLINE 431+00

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

G

G

G

G

G

OH

OH

OH

OH

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 117	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PLOTDWGS\143217.dgn 7/2/2018 6:53:48 PM PLOT BY : Mdonnelly PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

2

N

SAN SAN MH SAN SAN SAN

G G G G G G

KR-3

CTH KR

MATCHLINE 431+00

431 432 433 434 435 436 437

MATCHLINE 437+00

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

EXCV437

G G G G G G

OH OH OH OH OH OH

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 118	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PLOTS\WCVW14331.dgn 7/2/2018 6:54:11 PM PLOT BY : Mdonnelly PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

N

SAN SAN MH SAN SAN SAN

G G G G G

OHW

CTH KR

MATCHLINE 437+00

437 438 439 440 441 442 443

MATCHLINE 443+00

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

EXCV437

G G G G G

OH OH OH OH

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 119	E

2

N

SAN SAN SAN SAN SAN

MH

G G G G G

CTH KR

MATCHLINE 443+00

443 444 445 446 447 448 449

MATCHLINE 449+00

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

EXCV447

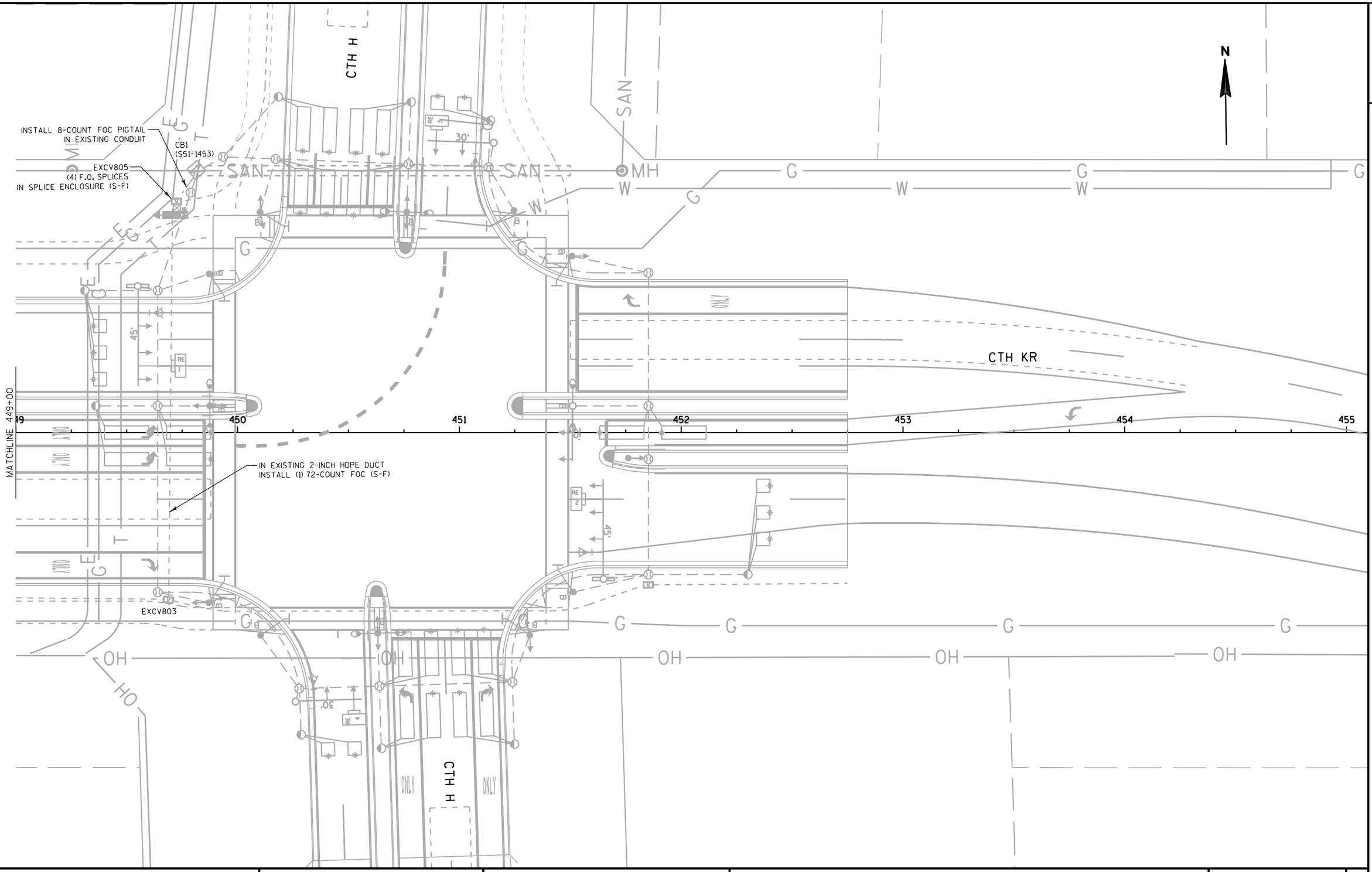
G G G G G

OH OH OH OH OH

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 120	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PLOTS\WCZ14351.dgn PLOTTED ON : 7/2/2018 6:54:55 PM PLOT BY : Mdonnelly PLOT NAME : PLOT SCALE : 40:1

2



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 121	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PLOTS\WCVW143161.dgn 27 Dec 2018 6:55:11 PM PLOT BY : Mdonnelly PLOT NAME : PLOT SCALE : 40:1

2

N

G G G G G

W W W W W

MATCHLINE 71BRW+50

72BRW 73BRW 74BRW 75BRW 76BRW 77BRW

BRAUN ROAD

72BRE 73BRE 74BRE 75BRE 76BRE 77BRE

MATCHLINE 77BRW+50

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 122	E

2

N

G G G G G

W W W W W

W

MATCHLINE 77BRW+50

78BRW 79BRW 80BRW 81BRW 82BRW 83BRW

BRAUN ROAD

MATCHLINE 83BRW+50

78BRE 79BRE 80BRE 81BRE 82BRE 83BRE

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

W

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 123	E

2

N

G G G G G

W W W W W

MATCHLINE 83BRW+50

84BRW 85BRW 86BRW 87BRW 88BRW 89BRW

BRAUN ROAD

MATCHLINE 89BRW+50

84BRE 85BRE 86BRE 87BRE 88BRE 89BRE

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

EXCV88

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 124	E

2

N

G G G G

W W W W

MATCHLINE 89BRW+50

90BRW 91BRW 92BRW 93BRW 94BRW 95BRW

BRAUN ROAD

MATCHLINE 95BRW+50

90BRE 91BRE 92BRE 93BRE 94BRE 95BRE

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 125	E

2

N

G W

MATCHLINE 95BRW+50

96BRW 97BRW 98BRW 99BRW 100BRW 101BRW

BRAUN ROAD

MATCHLINE 101BRW+50

96BRE 97BRE 98BRE 99BRE 100BRE 101BRE

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

EXCV99

ONLY

1004FC1A

1004FC1B

1003FC1A

1003FC1B

BRAUN-3

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 126	E

2

N

G
W

MATCHLINE 101BRW+50

102BRW 103BRW 104BRW 105BRW 106BRW 107BRW

ONLY

BRAUN ROAD

MATCHLINE 107BRW+50

102BRE 103BRE 104BRE 105BRE 106BRE 107BRE

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

EXCV101

PROJECT NO:2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY:RACINE	ITS PLANS	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PLOTS\ITS_PLANS_E.dgn 27 Jul 2018 6:56:41 PM PLOT BY : Mdonnelly PLOT NAME : PLOT SCALE : 40:1

2

N

G W G W G W G W G W

MATCHLINE 107BRW+50

108BRW 109BRW 110BRW 111BRW 112BRW 113BRW

BRAUN ROAD

MATCHLINE 113BRW+50

108BRE 109BRE 110BRE 111BRE 112BRE 113BRE

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

EXCV112

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

G G G G G

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 128	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PLOTS\WCVW14411_27.dgn 11/27/2018 6:57:07 PM PLOT BY : Mdonnelly PLOT NAME : PLOT SCALE : 40:1

2

2

N

G W G W G W G W

MATCHLINE 113BRW+50

114BRW 115BRW 116BRW 117BRW 118BRW 119BRW

BRAUN ROAD

MATCHLINE 119BRW+50

114BRE 115BRE 116BRE 117BRE 118BRE 119BRE

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

G G G G

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 129	E

2

2

N

BRAUN-2

400IN4A

400IN4B

BRAUN ROAD

MATCHLINE 119BRW+50

MATCHLINE 125BRW+50

120BRW

121BRW

122BRW

123BRW

124BRW

125BRW

120BRE

121BRE

122BRE

123BRE

124BRE

125BRE

ONLY

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

EXCV123
(14) F.O. SPLICES
IN SPLICE ENCLOSURE (S-F)

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

INSTALL 8-COUNT FOC PIGTAIL
IN EXISTING CONDUIT

CB1
(S51-1469)

3006FC2A

3006FC2B

3005FC2A

3005FC2B

BRAUN-2

40'

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 130	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PLOTS\WCVW14451.dgn 7/2/2018 6:58:03 PM PLOT BY : Mdonnelly PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

N

G W G W G W G W G W G W

MATCHLINE 125BRW+50

126BRW 127BRW 128BRW 129BRW 130BRW 131BRW

MATCHLINE 131BRW+50

BRAUN ROAD

126BRE 127BRE 128BRE 129BRE 130BRE 131BRE

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

G G G G G G

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 131	E

2

N

G G G G

W W W W

MATCHLINE 131BRW+50

132BRW 133BRW 134BRW 135BRW 136BRW 137BRW

BRAUN ROAD

MATCHLINE 137BRW+50

132BRE 133BRE 134BRE 135BRE 136BRE 137BRE

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

EXCV133

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

G G G G

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 132	E

2

2

N

G
W

138BRW 139BRW 140BRW 141BRW 142BRW 143BRW

MATCHLINE 137BRW+50

MATCHLINE 143BRW+50

BRAUN ROAD

138BRE 139BRE 140BRE 141BRE 142BRE 143BRE

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

EXCV141

BRAUN-1

5004FC3A 5004FC3B

5003FC3A 5003FC3B

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 133	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PLOTS\WCE1449_Z7.dgn PLOT DATE : 7/2/2018 6:59:24 PM PLOT BY : Mdonnelly PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

N

G W G W G W G W G W

MATCHLINE 143BRW+50

144BRW 145BRW 146BRW 147BRW 148BRW 149BRW

ONLY

BRAUN ROAD

MATCHLINE 149BRW+50

144BRE 145BRE 146BRE 147BRE 148BRE 149BRE

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

EXCV143

G G G G G

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 134	E

2

N

CTH H

SAN

TV

MH

BRAUN ROAD

150BRW

151BRW

152BRW

153BRW

154BRW

155BRW

MATCHLINE 149BRW+50

MATCHLINE 155BRW+50

150BRE

151BRE

152BRE

153BRE

154BRE

155BRE

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

IN EXISTING 2-INCH HDPE DUCT
INSTALL (1) 72-COUNT FOC (S-F)

EXCV150

INSTALL 8-COUNT FOC PIGTAIL
IN EXISTING CONDUIT

EXCV855-1

EXCV855-1
(4) F.O. SPLICES
IN SPLICE ENCLOSURE (S-F)

CTH H

30°

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\Plots\ITS_Plan_Sheets_Braun_WCVW_Z14511.dgn 27-Dec-2018 6:59:58 PM PLOT BY : Mdonnelly PLOT NAME : PLOT SCALE : 40:1

2

2

N

MATCHLINE 155BRW+50

155BRW
156BRW
157BRW
158BRW
159BRW
160BRW
161BRW

BRAUN ROAD

156BRE
157BRE
158BRE
159BRE
160BRE
161BRE

CB1
(S51-1470)

MH

EXCV855

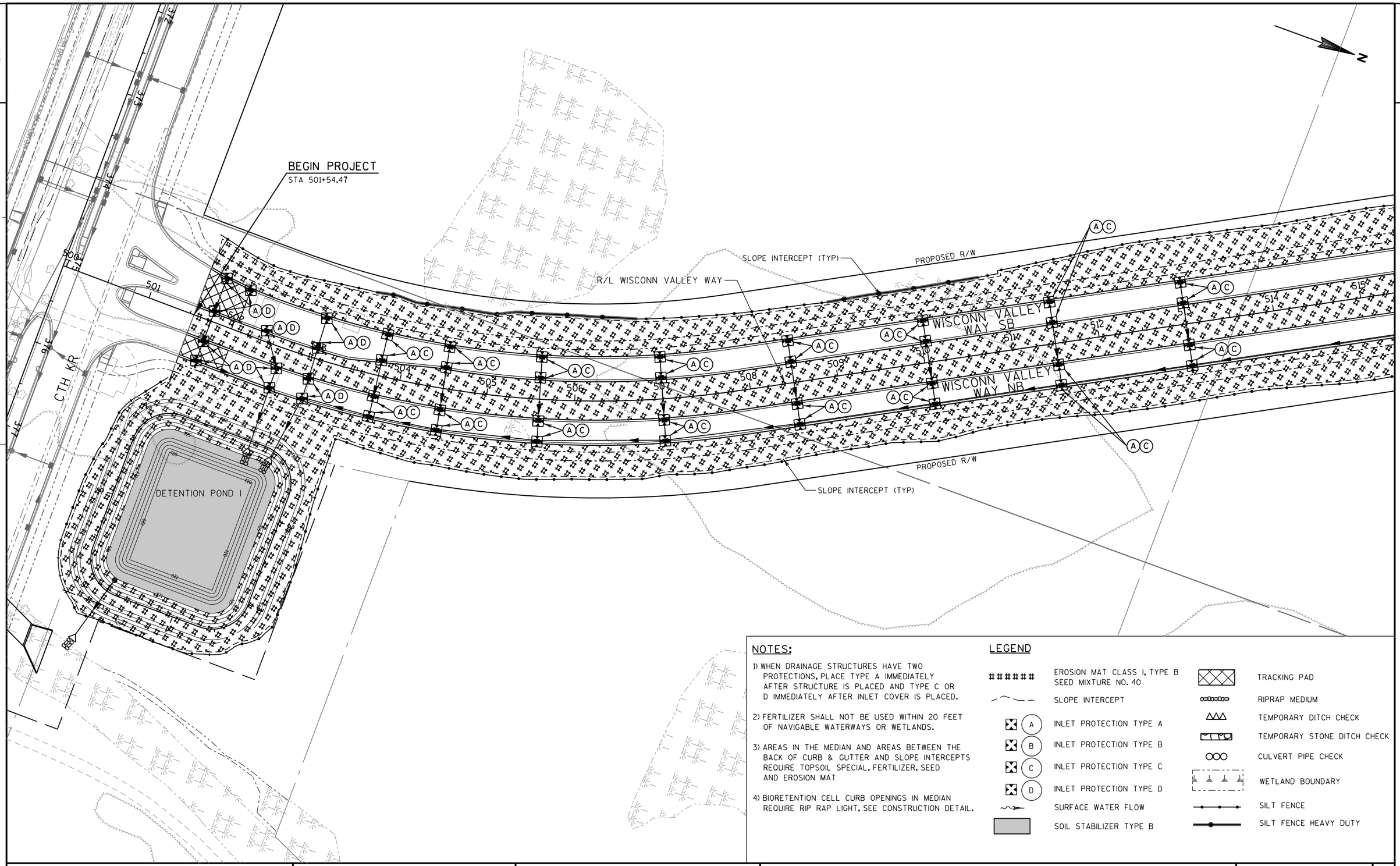
INSTALL 8-COUNT FOC PIGTAIL
IN EXISTING CONDUIT

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ITS PLANS	SHEET 136	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\Plots\WCVW_ITS_Plan_Sheet_E14521.dgn 27 Dec 2018 7:00:14 PM PLOT BY : Mdonnelly PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2



NOTES:

1) WHEN DRAINAGE STRUCTURES HAVE TWO PROTECTIONS, PLACE TYPE A IMMEDIATELY AFTER STRUCTURE IS PLACED AND TYPE C OR D IMMEDIATELY AFTER INLET COVER IS PLACED.

2) FERTILIZER SHALL NOT BE USED WITHIN 20 FEET OF NAVIGABLE WATERWAYS OR WETLANDS.

3) AREAS IN THE MEDIAN AND AREAS BETWEEN THE BACK OF CURB & GUTTER AND SLOPE INTERCEPTS REQUIRE TOPSOIL SPECIAL, FERTILIZER, SEED AND EROSION MAT

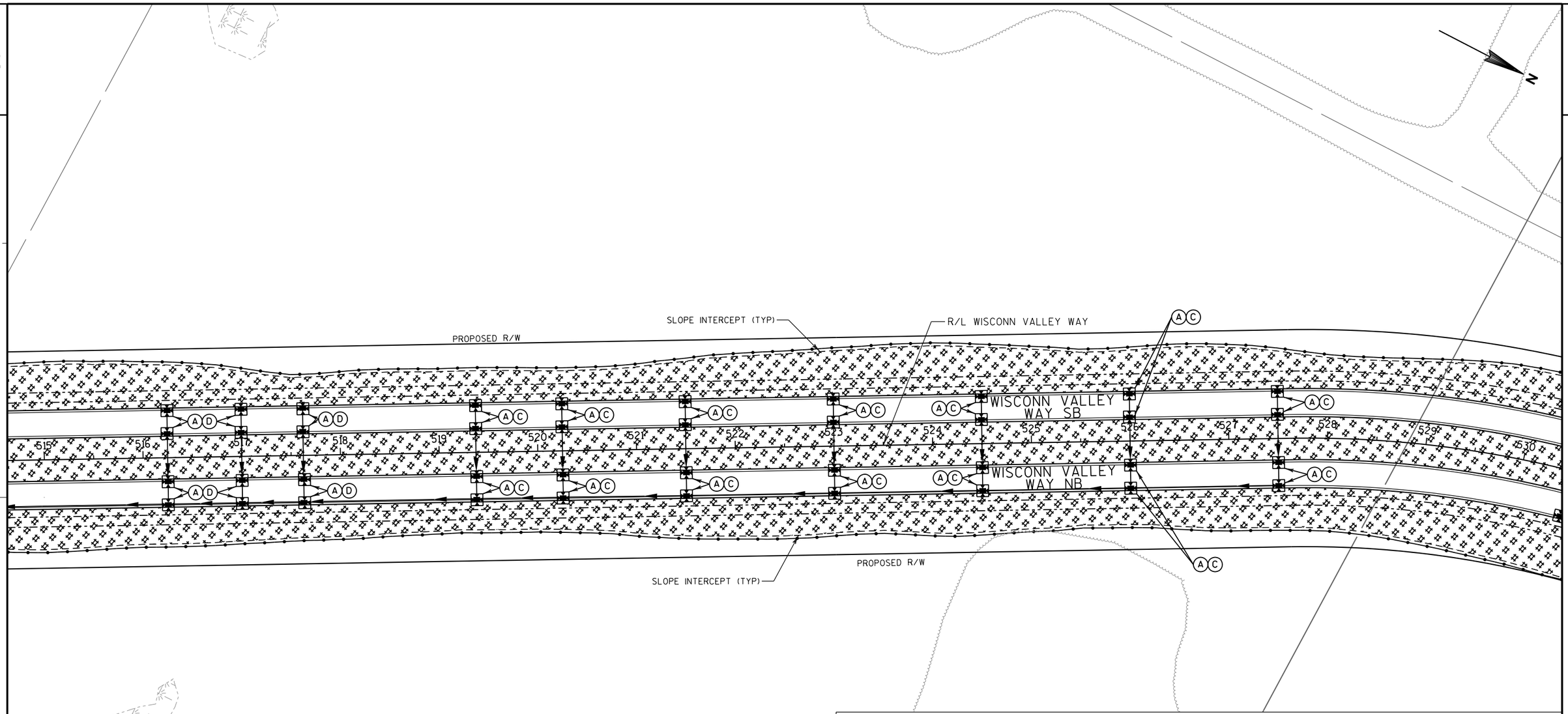
4) BIORETENTION CELL CURB OPENINGS IN MEDIAN REQUIRE RIP RAP LIGHT, SEE CONSTRUCTION DETAIL.

LEGEND

- EROSION MAT CLASS I, TYPE B SEED MIXTURE NO. 40
- SLOPE INTERCEPT
- A — INLET PROTECTION TYPE A
- B — INLET PROTECTION TYPE B
- C — INLET PROTECTION TYPE C
- D — INLET PROTECTION TYPE D
- SURFACE WATER FLOW
- SOIL STABILIZER TYPE B
- TRACKING PAD
- RIPRAP MEDIUM
- TEMPORARY DITCH CHECK
- TEMPORARY STONE DITCH CHECK
- CULVERT PIPE CHECK
- WETLAND BOUNDARY
- SILT FENCE
- SILT FENCE HEAVY DUTY

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	EROSION CONTROL PLAN	SHEET 137	E

2



NOTES:

1) WHEN DRAINAGE STRUCTURES HAVE TWO PROTECTIONS, PLACE TYPE A IMMEDIATELY AFTER STRUCTURE IS PLACED AND TYPE C OR D IMMEDIATELY AFTER INLET COVER IS PLACED.

2) FERTILIZER SHALL NOT BE USED WITHIN 20 FEET OF NAVIGABLE WATERWAYS OR WETLANDS.

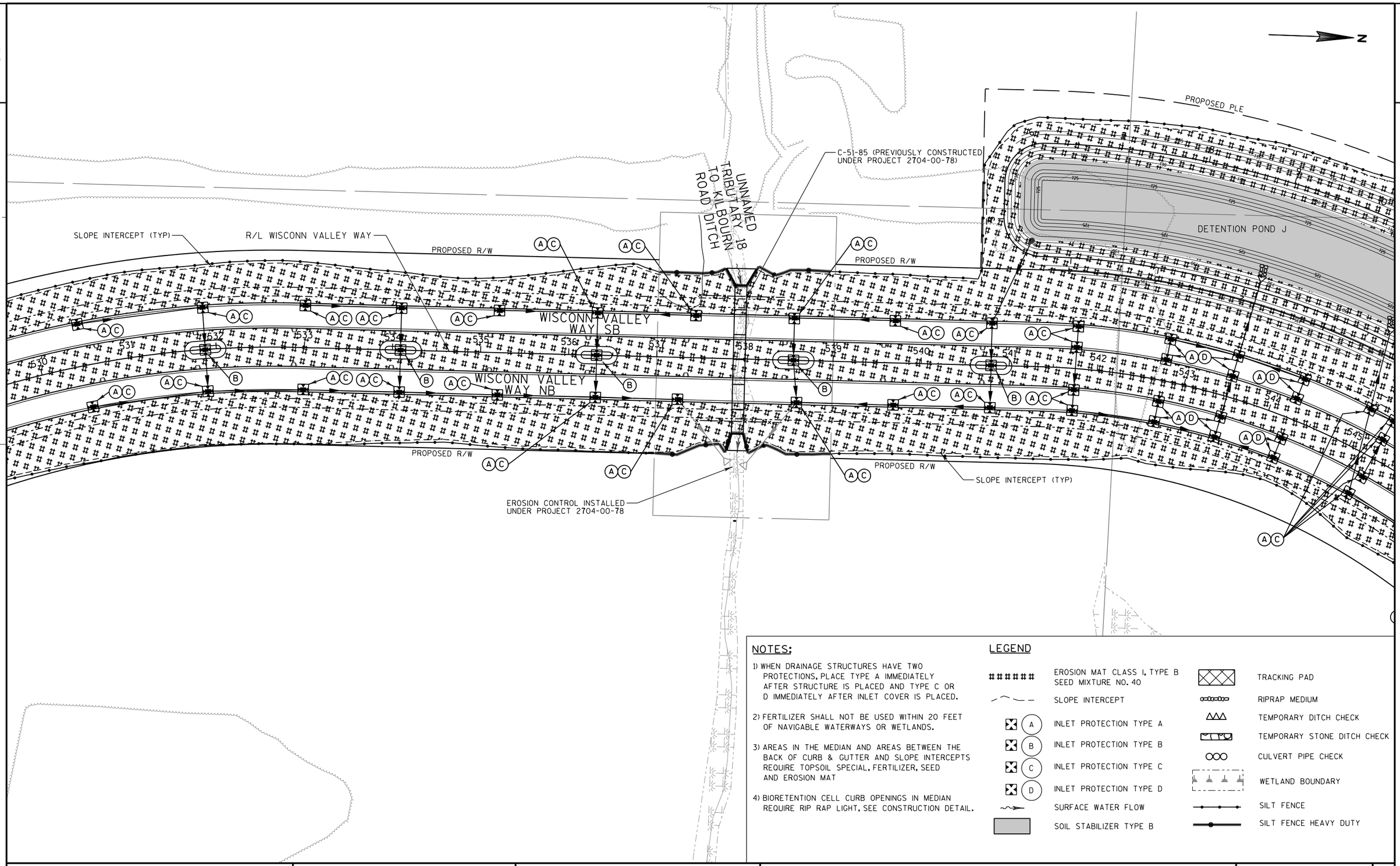
3) AREAS IN THE MEDIAN AND AREAS BETWEEN THE BACK OF CURB & GUTTER AND SLOPE INTERCEPTS REQUIRE TOPSOIL SPECIAL, FERTILIZER, SEED AND EROSION MAT

4) BIORETENTION CELL CURB OPENINGS IN MEDIAN REQUIRE RIP RAP LIGHT, SEE CONSTRUCTION DETAIL.

LEGEND

- EROSION MAT CLASS I, TYPE B SEED MIXTURE NO. 40
- SLOPE INTERCEPT
- A — INLET PROTECTION TYPE A
- B — INLET PROTECTION TYPE B
- C — INLET PROTECTION TYPE C
- D — INLET PROTECTION TYPE D
- SURFACE WATER FLOW
- SOIL STABILIZER TYPE B
- TRACKING PAD
- RIPRAP MEDIUM
- TEMPORARY DITCH CHECK
- TEMPORARY STONE DITCH CHECK
- CULVERT PIPE CHECK
- WETLAND BOUNDARY
- SILT FENCE
- SILT FENCE HEAVY DUTY

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	EROSION CONTROL PLAN	SHEET 138	E



NOTES:

1) WHEN DRAINAGE STRUCTURES HAVE TWO PROTECTIONS, PLACE TYPE A IMMEDIATELY AFTER STRUCTURE IS PLACED AND TYPE C OR D IMMEDIATELY AFTER INLET COVER IS PLACED.

2) FERTILIZER SHALL NOT BE USED WITHIN 20 FEET OF NAVIGABLE WATERWAYS OR WETLANDS.

3) AREAS IN THE MEDIAN AND AREAS BETWEEN THE BACK OF CURB & GUTTER AND SLOPE INTERCEPTS REQUIRE TOPSOIL SPECIAL, FERTILIZER, SEED AND EROSION MAT

4) BIORETENTION CELL CURB OPENINGS IN MEDIAN REQUIRE RIP RAP LIGHT, SEE CONSTRUCTION DETAIL.

LEGEND

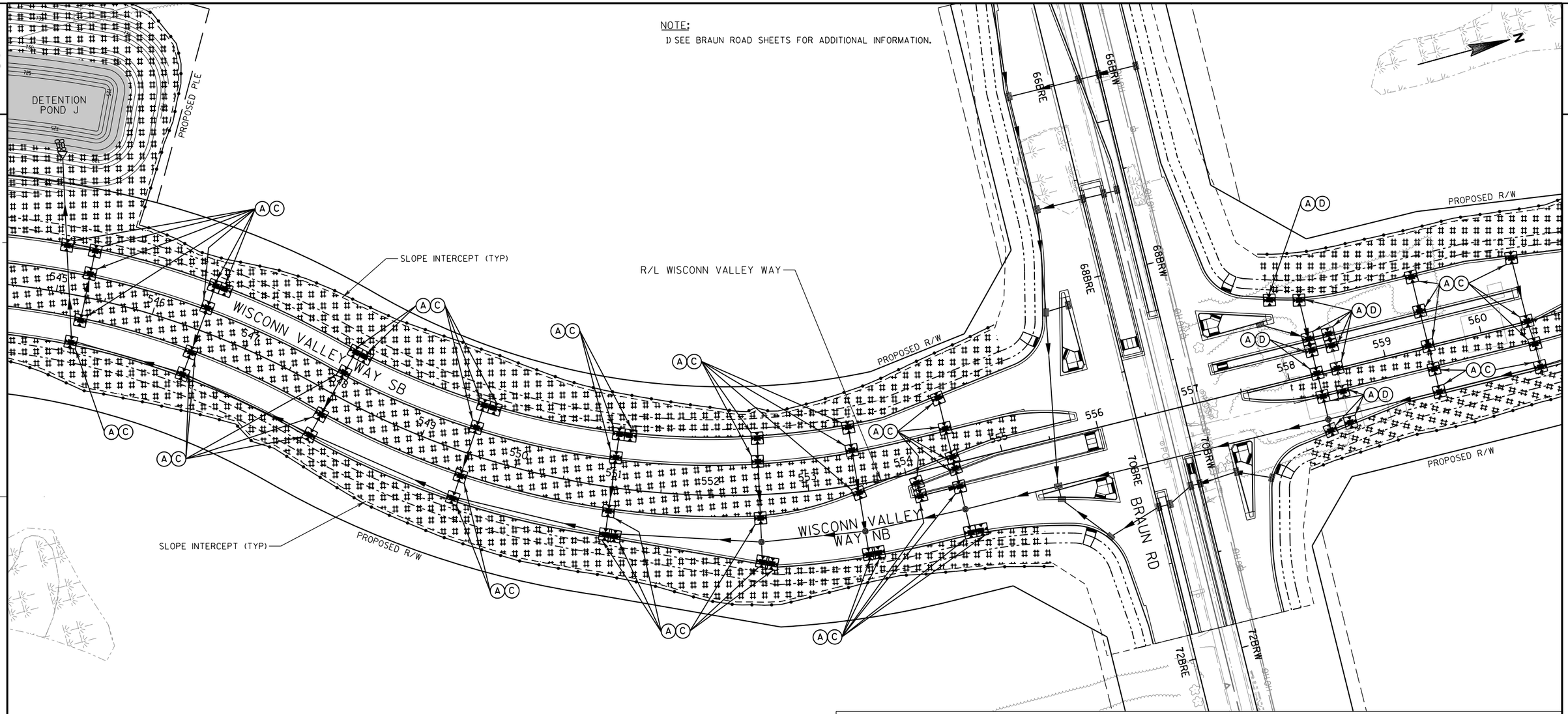
- EROSION MAT CLASS I, TYPE B SEED MIXTURE NO. 40
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE B
- INLET PROTECTION TYPE C
- INLET PROTECTION TYPE D
- SURFACE WATER FLOW
- SOIL STABILIZER TYPE B
- TRACKING PAD
- RIPRAP MEDIUM
- TEMPORARY DITCH CHECK
- TEMPORARY STONE DITCH CHECK
- CULVERT PIPE CHECK
- WETLAND BOUNDARY
- SILT FENCE
- SILT FENCE HEAVY DUTY

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	EROSION CONTROL PLAN	SHEET 139	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\022003_EC.dgn PLOT DATE : 12/19/2018 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

NOTE:

1) SEE BRAUN ROAD SHEETS FOR ADDITIONAL INFORMATION.



NOTES:

1) WHEN DRAINAGE STRUCTURES HAVE TWO PROTECTIONS, PLACE TYPE A IMMEDIATELY AFTER STRUCTURE IS PLACED AND TYPE C OR D IMMEDIATELY AFTER INLET COVER IS PLACED.

2) FERTILIZER SHALL NOT BE USED WITHIN 20 FEET OF NAVIGABLE WATERWAYS OR WETLANDS.

3) AREAS IN THE MEDIAN AND AREAS BETWEEN THE BACK OF CURB & GUTTER AND SLOPE INTERCEPTS REQUIRE TOPSOIL SPECIAL, FERTILIZER, SEED AND EROSION MAT

4) BIORETENTION CELL CURB OPENINGS IN MEDIAN REQUIRE RIP RAP LIGHT, SEE CONSTRUCTION DETAIL.

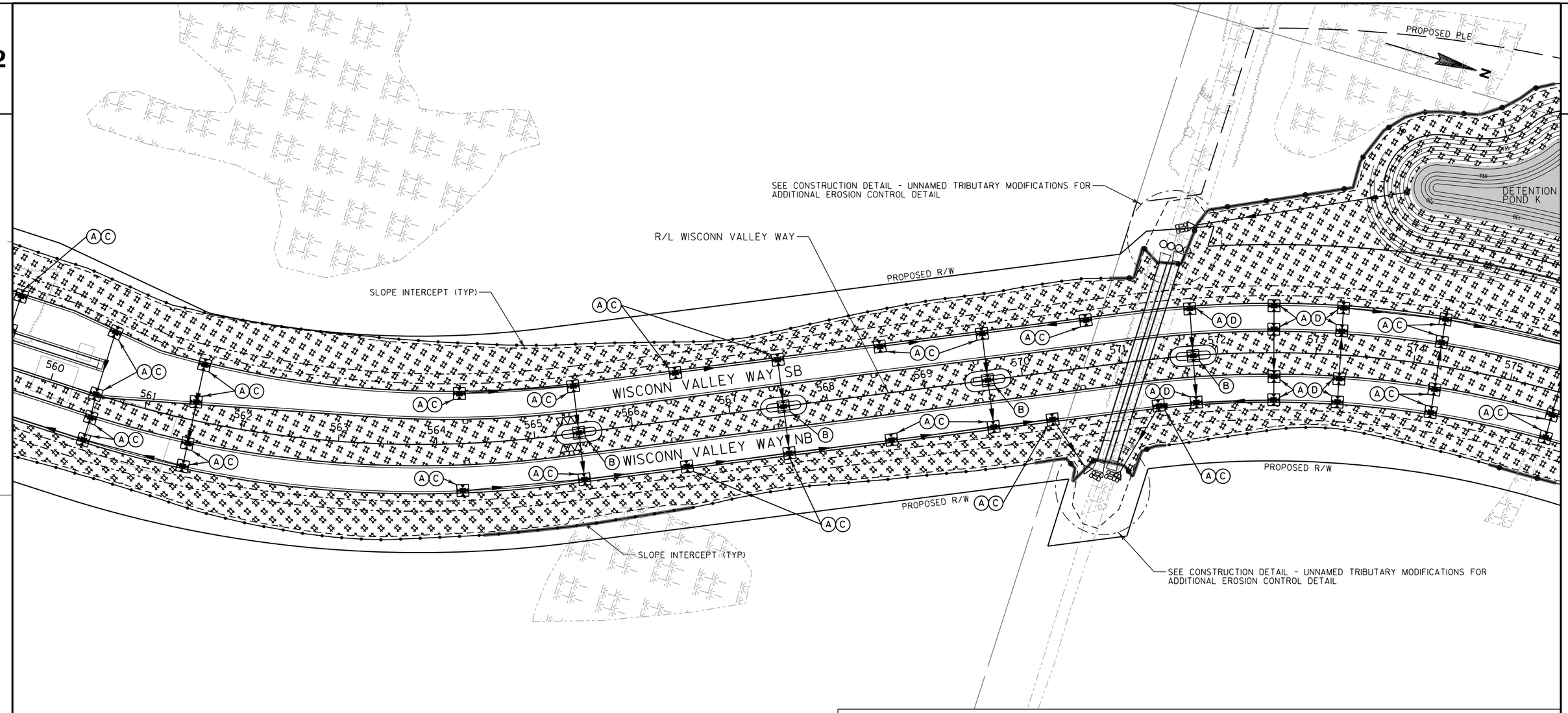
LEGEND

- EROSION MAT CLASS I, TYPE B SEED MIXTURE NO. 40
- SLOPE INTERCEPT
- A — INLET PROTECTION TYPE A
- B — INLET PROTECTION TYPE B
- C — INLET PROTECTION TYPE C
- D — INLET PROTECTION TYPE D
- SURFACE WATER FLOW
- SOIL STABILIZER TYPE B
- TRACKING PAD
- RIPRAP MEDIUM
- TEMPORARY DITCH CHECK
- TEMPORARY STONE DITCH CHECK
- CULVERT PIPE CHECK
- WETLAND BOUNDARY
- SILT FENCE
- SILT FENCE HEAVY DUTY

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	EROSION CONTROL PLAN	SHEET 140	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\022004_EC.dgn PLOT DATE : 12/19/2018 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42



NOTES:

1) WHEN DRAINAGE STRUCTURES HAVE TWO PROTECTIONS, PLACE TYPE A IMMEDIATELY AFTER STRUCTURE IS PLACED AND TYPE C OR D IMMEDIATELY AFTER INLET COVER IS PLACED.

2) FERTILIZER SHALL NOT BE USED WITHIN 20 FEET OF NAVIGABLE WATERWAYS OR WETLANDS.

3) AREAS IN THE MEDIAN AND AREAS BETWEEN THE BACK OF CURB & GUTTER AND SLOPE INTERCEPTS REQUIRE TOPSOIL SPECIAL, FERTILIZER, SEED AND EROSION MAT

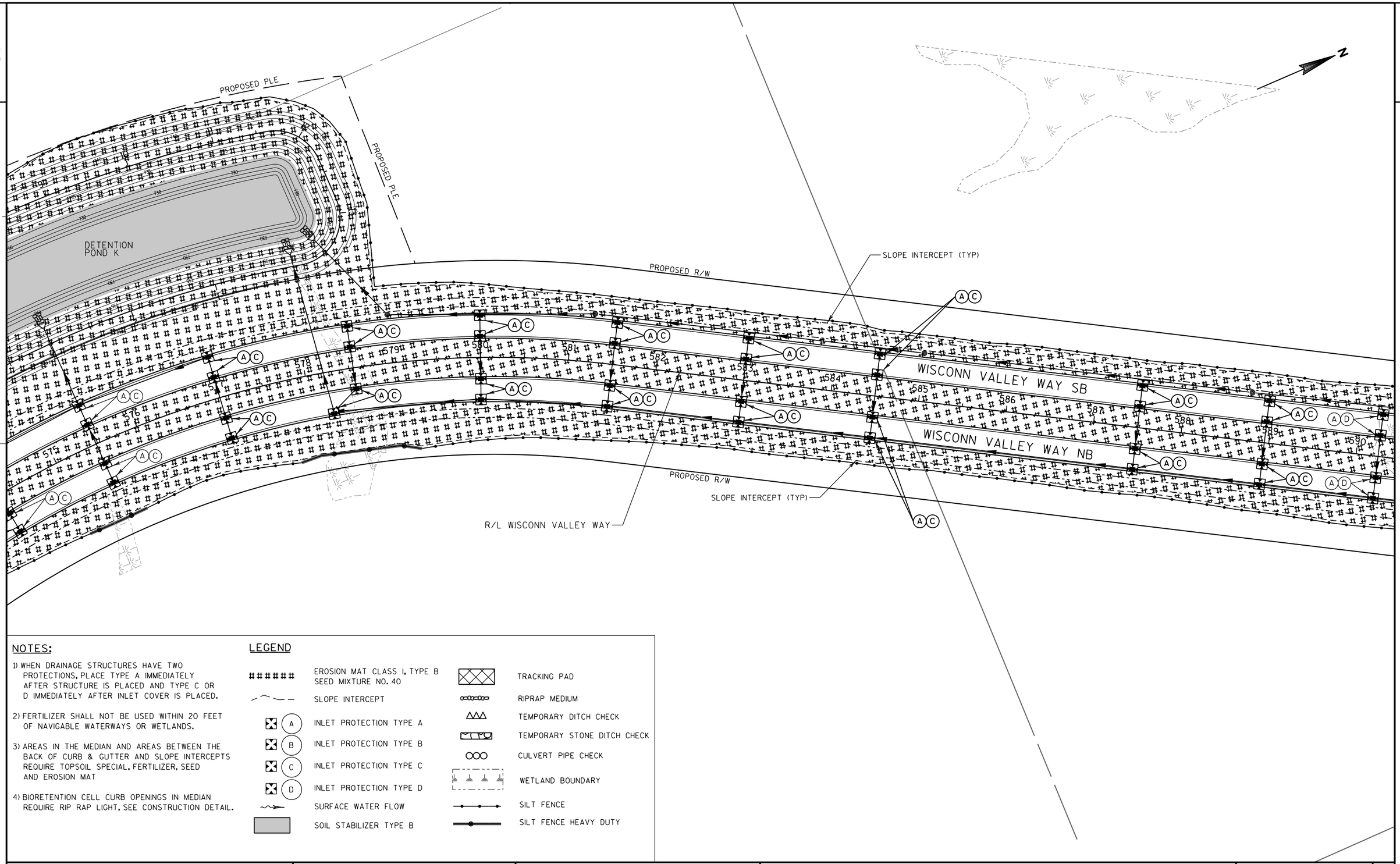
4) BIORETENTION CELL CURB OPENINGS IN MEDIAN REQUIRE RIP RAP LIGHT, SEE CONSTRUCTION DETAIL.

LEGEND

- EROSION MAT CLASS I, TYPE B SEED MIXTURE NO. 40
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE B
- INLET PROTECTION TYPE C
- INLET PROTECTION TYPE D
- SURFACE WATER FLOW
- SOIL STABILIZER TYPE B
- TRACKING PAD
- RIPRAP MEDIUM
- TEMPORARY DITCH CHECK
- TEMPORARY STONE DITCH CHECK
- CULVERT PIPE CHECK
- WETLAND BOUNDARY
- SILT FENCE
- SILT FENCE HEAVY DUTY

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	EROSION CONTROL PLAN	SHEET 141	E

2



NOTES:

1) WHEN DRAINAGE STRUCTURES HAVE TWO PROTECTIONS, PLACE TYPE A IMMEDIATELY AFTER STRUCTURE IS PLACED AND TYPE C OR D IMMEDIATELY AFTER INLET COVER IS PLACED.

2) FERTILIZER SHALL NOT BE USED WITHIN 20 FEET OF NAVIGABLE WATERWAYS OR WETLANDS.

3) AREAS IN THE MEDIAN AND AREAS BETWEEN THE BACK OF CURB & GUTTER AND SLOPE INTERCEPTS REQUIRE TOPSOIL SPECIAL, FERTILIZER, SEED AND EROSION MAT

4) BIORETENTION CELL CURB OPENINGS IN MEDIAN REQUIRE RIP RAP LIGHT, SEE CONSTRUCTION DETAIL.

LEGEND

- EROSION MAT CLASS I, TYPE B SEED MIXTURE NO. 40
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE B
- INLET PROTECTION TYPE C
- INLET PROTECTION TYPE D
- SURFACE WATER FLOW
- SOIL STABILIZER TYPE B
- TRACKING PAD
- RIPRAP MEDIUM
- TEMPORARY DITCH CHECK
- TEMPORARY STONE DITCH CHECK
- CULVERT PIPE CHECK
- WETLAND BOUNDARY
- SILT FENCE
- SILT FENCE HEAVY DUTY

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	EROSION CONTROL PLAN	SHEET 142	E

2

N

END PROJECT
STA 605+29.12

PROPOSED R/W

SLOPE INTERCEPT (TYP)

R/L WISCONN VALLEY WAY

WISCONN VALLEY WAY SB

WISCONN VALLEY WAY NB

OH

NOTES:

1) WHEN DRAINAGE STRUCTURES HAVE TWO PROTECTIONS, PLACE TYPE A IMMEDIATELY AFTER STRUCTURE IS PLACED AND TYPE C OR D IMMEDIATELY AFTER INLET COVER IS PLACED.

2) FERTILIZER SHALL NOT BE USED WITHIN 20 FEET OF NAVIGABLE WATERWAYS OR WETLANDS.

3) AREAS IN THE MEDIAN AND AREAS BETWEEN THE BACK OF CURB & GUTTER AND SLOPE INTERCEPTS REQUIRE TOPSOIL SPECIAL, FERTILIZER, SEED AND EROSION MAT

4) BIORETENTION CELL CURB OPENINGS IN MEDIAN REQUIRE RIP RAP LIGHT, SEE CONSTRUCTION DETAIL.

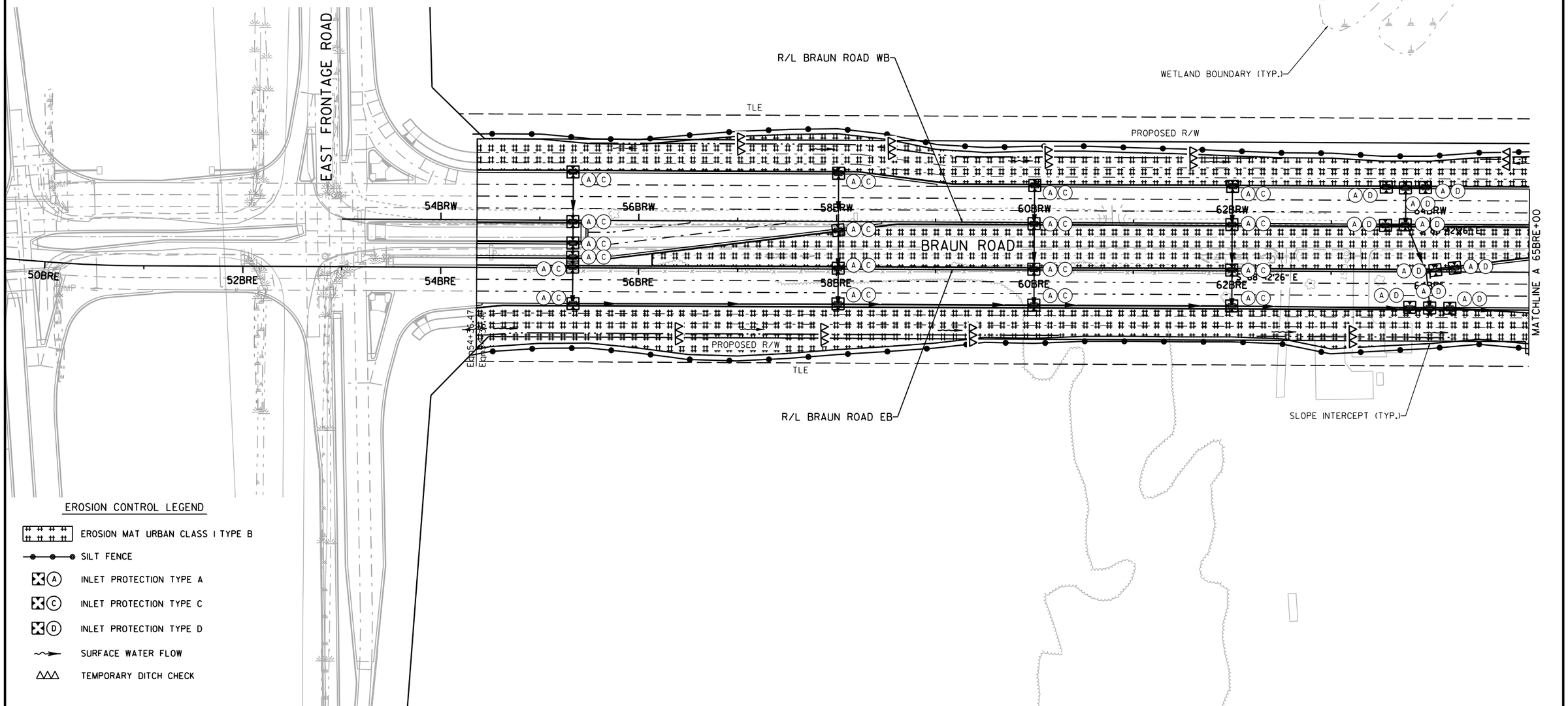
LEGEND

- EROSION MAT CLASS I, TYPE B SEED MIXTURE NO. 40
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE B
- INLET PROTECTION TYPE C
- INLET PROTECTION TYPE D
- SURFACE WATER FLOW
- SOIL STABILIZER TYPE B
- TRACKING PAD
- RIPRAP MEDIUM
- TEMPORARY DITCH CHECK
- TEMPORARY STONE DITCH CHECK
- CULVERT PIPE CHECK
- WETLAND BOUNDARY
- SILT FENCE
- SILT FENCE HEAVY DUTY

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	EROSION CONTROL PLAN	SHEET 143	E

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD
2. AREAS IN THE MEDIAN AND BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS REQUIRE TOPSOIL SPECIAL, FERTILIZER, SEED, AND EROSION MAT OR MULCH.
3. RESTORATION AREAS IN THE MEDIAN AND AREAS BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS SHALL BE SEEDED WITH DOT SEEDING MIXTURE NO. 40.
4. WHEN INLET PROTECTION TYPE A & TYPE C OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE C OR D AFTER THE INLET CASTINGS ARE IN PLACE.



PROJECT NO: 2704-00-76	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL	SHEET 144	E

NOTES

1. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD
2. AREAS IN THE MEDIAN AND BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS REQUIRE TOPSOIL SPECIAL, FERTILIZER, SEED, AND EROSION MAT OR MULCH.
3. RESTORATION AREAS IN THE MEDIAN AND AREAS BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS SHALL BE SEEDED WITH DOT SEEDING MIXTURE NO. 40.
4. WHEN INLET PROTECTION TYPE A & TYPE C OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE C OR D AFTER THE INLET CASTINGS ARE IN PLACE.
5. SEE WISCONN VALLEY WAY SHEETS FOR ADDITIONAL INFORMATION.

N

R/L WISCONN VALLEY WAY

R/L BRAUN ROAD WB

R/L BRAUN ROAD EB

BRAUN ROAD

WISCONN VALLEY WAY

WETLAND BOUNDARY (TYP.)

SLOPE INTERCEPT (TYP.)

PROPOSED R/W

TLE

PLE

MATCHLINE A 65BRE+00

66BRW 68BRW 70BRW 72BRW 74BRW 76BRW 78BRW 80BRW

66BRE 68BRE 70BRE 72BRE 74BRE 76BRE 78BRE 80BRE

N 88°47'18" E

561 560 559 558 557 556 555 554 553

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECK

PROJECT NO: 2704-00-76	HWY: BRAUN ROAD	COUNTY: RACINE	EROSION CONTROL	SHEET 145	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PLOTS\WCVW_EC_Sheet_2021_29_2018

PLOT BY : jdepies PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

NOTES:

1) ALL AREAS OF EROSION MAT URBAN CLASS I TYPE B SHALL RECEIVE SIX-INCH TOPSOIL SPECIAL, SEEDING MIXTURE NO. 75, AND FERTILIZER TYPE B.

RAMP NE R/L

RAMP NE

659NE 660NE 661NE 662NE 663NE 664NE 665NE

50'

45'

7+00

6+00

5+00

4+00

3+00

2+00

1+00

10'X6'

10'X6'

10'X6'

NE POND R/L

CTH KR R/L
(FOR REFERENCE ONLY)

CTH KR WB

5665 5664 5663 5662 5661 5660 5659

EAST FRONTAGE RD

SLOPE INTERCEPT (TYP.)

EAST FRONTAGE RD R/L
(FOR REFERENCE ONLY)

WETLAND BOUNDARY (TYP.)

52 53 54 55 56

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- HDSF — HDSF — HEAVY DUTY SILT FENCE
- RIPRAP MEDIUM W/ GEOTEXTILE FABRIC TYPE HR
- SLOPE INTERCEPT
- MULCHING SPECIAL (SEE PLANTING PLAN FOR ADDITIONAL DETAILS)
- (A) INLET PROTECTION TYPE A
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	EROSION CONTROL: POND NE	SHEET 146	E

2

GENERAL DRAINAGE NOTES

FOR LOCATION OF STRUCTURES, SEE STRUCTURE LOCATION DETAIL.

RIM ELEVATIONS ARE GIVEN AT FLOW LINE OF INLET OR AT CENTER OF MANHOLE. SEE STRUCTURE LOCATION DETAIL.

PLAN LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND IS USED FOR ESTIMATING. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE AND IS USED TO COMPUTE PIPE SLOPE.

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

UTILITY INFORMATION SHOWN ON THE PLANS IS APPROXIMATE. LOCATIONS SHOWN ARE TAKEN FROM EXISTING RECORDS AND BEST INFORMATION AVAILABLE FROM EXISTING PLANS. IT IS EXPECTED THAT THERE MAY BE DISCREPANCIES AND OMISSIONS IN THE LOCATION OF UTILITIES AND STRUCTURES SHOWN. VERIFY ALL LOCATIONS IN THE FIELD.

COORDINATE WITH DIGGERS HOTLINE TO FIELD LOCATE UTILITIES. SHEETING SHALL NOT GO THROUGH UTILITIES. ANY UTILITIES DAMAGED DUE TO CONTRACTOR ACTIVITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE COMPLETE SATISFACTION OF THE UTILITY FACILITY.

VERIFY THE EXISTING STORM SEWER SYSTEM CONNECTION LOCATIONS AND ELEVATIONS PRIOR TO ORDERING DRAINAGE STRUCTURES AND PIPES. NOTIFY THE ENGINEER OF ANY DEVIATIONS FROM THE INFORMATION SHOWN ON THE PLANS PRIOR TO INSTALLING THE PROPOSED STORM SEWER.

PROVIDE BOLTED COVERS FOR MANHOLE COVERS TYPE J SPECIAL. COST OF PROVIDING BOLTED COVERS IS CONSIDERED INCIDENTAL TO COVER.

PROVIDE TEMPORARY POSITIVE DRAINAGE THROUGHOUT THE PROJECT DURING ALL PROJECT STAGES. PROVIDING TEMPORARY POSITIVE DRAINAGE IS INCIDENTAL TO CONSTRUCTION.

SUPPORTING UTILITIES DURING STORM SEWER CONSTRUCTION IS INCIDENTAL TO STORM SEWER PIPE AND/OR STORM SEWER STRUCTURE.

CONSTRUCTION AND REMOVAL OF TEMPORARY BULKHEAD IS CONSIDERED INCIDENTAL TO COST OF STORM SEWER PIPE OR STORM SEWER STRUCTURE WHEN A PIPE OR STRUCTURE IS CONSTRUCTED OR REMOVED IN MULTIPLE STAGES.

STORM SEWER LEGEND

——→——	PROPOSED STORM SEWER PIPE PLAN VIEW
——→——	EXISTING STORM SEWER PLAN VIEW
- - - - - -	EXISTING STORM SEWER PROFILE VIEW
(***)	PROPOSED DRAINAGE STRUCTURE
(E***)	EXISTING DRAINAGE STRUCTURE
●	PROPOSED MANHOLE
■	PROPOSED INLET
△	PROPOSED ENDWALL
P***	PROPOSED STORM SEWER PIPE
PE***	EXISTING STORM SEWER PIPE

2

GENERAL DRAINAGE NOTES

FOR LOCATION OF STRUCTURES, SEE STRUCTURE LOCATION DETAIL.

RIM ELEVATIONS ARE GIVEN AT FLOW LINE OF INLET OR AT CENTER OF MANHOLE. SEE STRUCTURE LOCATION DETAIL.

PLAN LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE AND IS USED FOR ESTIMATING. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE AND IS USED TO COMPUTE PIPE SLOPE.

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

UTILITY INFORMATION SHOWN ON THE PLANS IS APPROXIMATE. LOCATIONS SHOWN ARE TAKEN FROM EXISTING RECORDS AND BEST INFORMATION AVAILABLE FROM EXISTING PLANS. IT IS EXPECTED THAT THERE MAY BE DISCREPANCIES AND OMISSIONS IN THE LOCATION OF UTILITIES AND STRUCTURES SHOWN. VERIFY ALL LOCATIONS IN THE FIELD.

COORDINATE WITH DIGGERS HOTLINE TO FIELD LOCATE UTILITIES. SHEETING SHALL NOT GO THROUGH UTILITIES. ANY UTILITIES DAMAGED DUE TO CONTRACTOR ACTIVITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE COMPLETE SATISFACTION OF THE UTILITY FACILITY.

VERIFY THE EXISTING STORM SEWER SYSTEM CONNECTION LOCATIONS AND ELEVATIONS PRIOR TO ORDERING DRAINAGE STRUCTURES AND PIPES. NOTIFY THE ENGINEER OF ANY DEVIATIONS FROM THE INFORMATION SHOWN ON THE PLANS PRIOR TO INSTALLING THE PROPOSED STORM SEWER.

PROVIDE BOLTED COVERS FOR MANHOLE COVERS TYPE J SPECIAL. COST OF PROVIDING BOLTED COVERS IS CONSIDERED INCIDENTAL TO COVER.

PROVIDE TEMPORARY POSITIVE DRAINAGE THROUGHOUT THE PROJECT DURING ALL PROJECT STAGES. PROVIDING TEMPORARY POSITIVE DRAINAGE IS INCIDENTAL TO CONSTRUCTION.

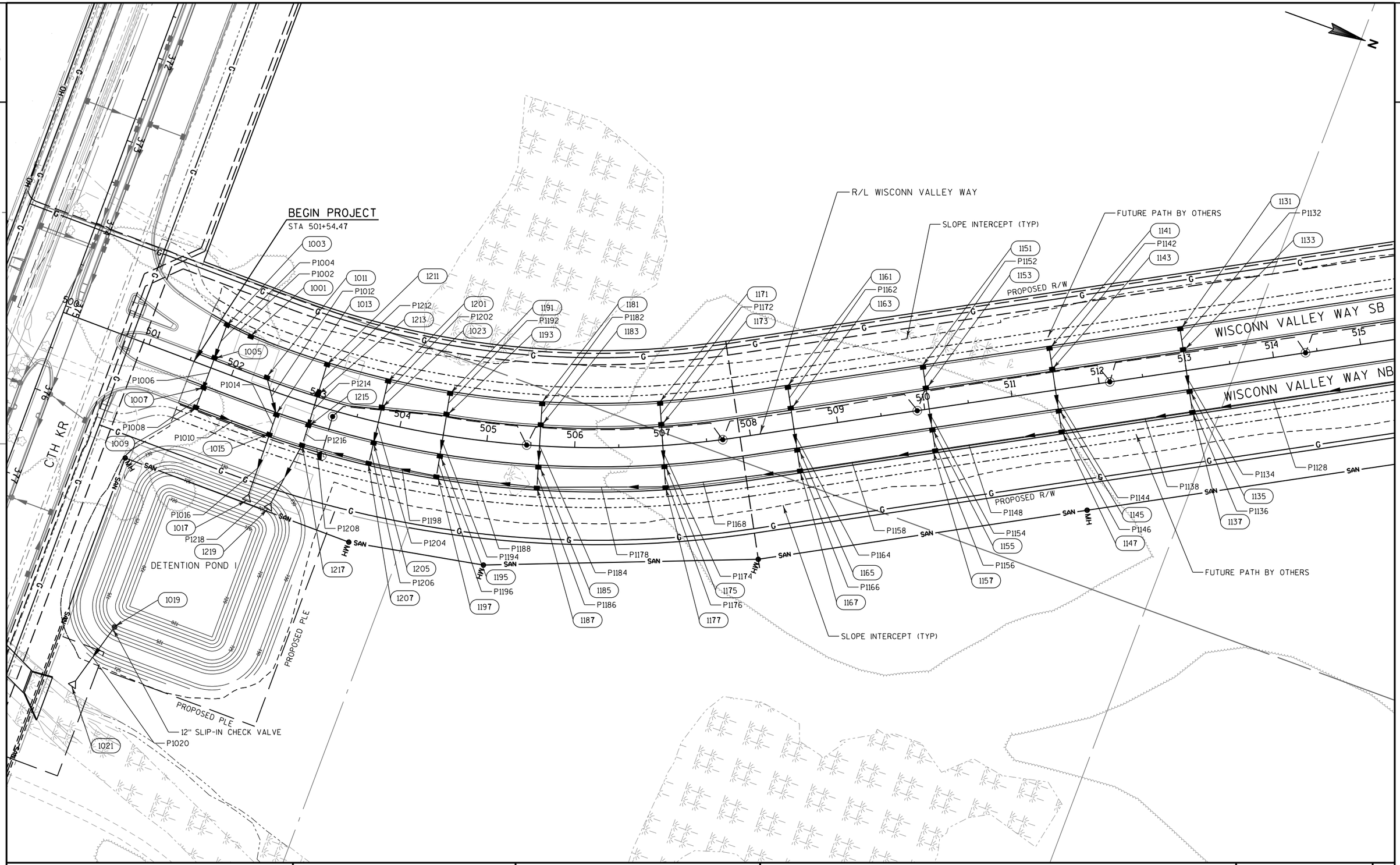
SUPPORTING UTILITIES DURING STORM SEWER CONSTRUCTION IS INCIDENTAL TO STORM SEWER PIPE AND/OR STORM SEWER STRUCTURE.

CONSTRUCTION AND REMOVAL OF TEMPORARY BULKHEAD IS CONSIDERED INCIDENTAL TO COST OF STORM SEWER PIPE OR STORM SEWER STRUCTURE WHEN A PIPE OR STRUCTURE IS CONSTRUCTED OR REMOVED IN MULTIPLE STAGES.

STORM SEWER LEGEND

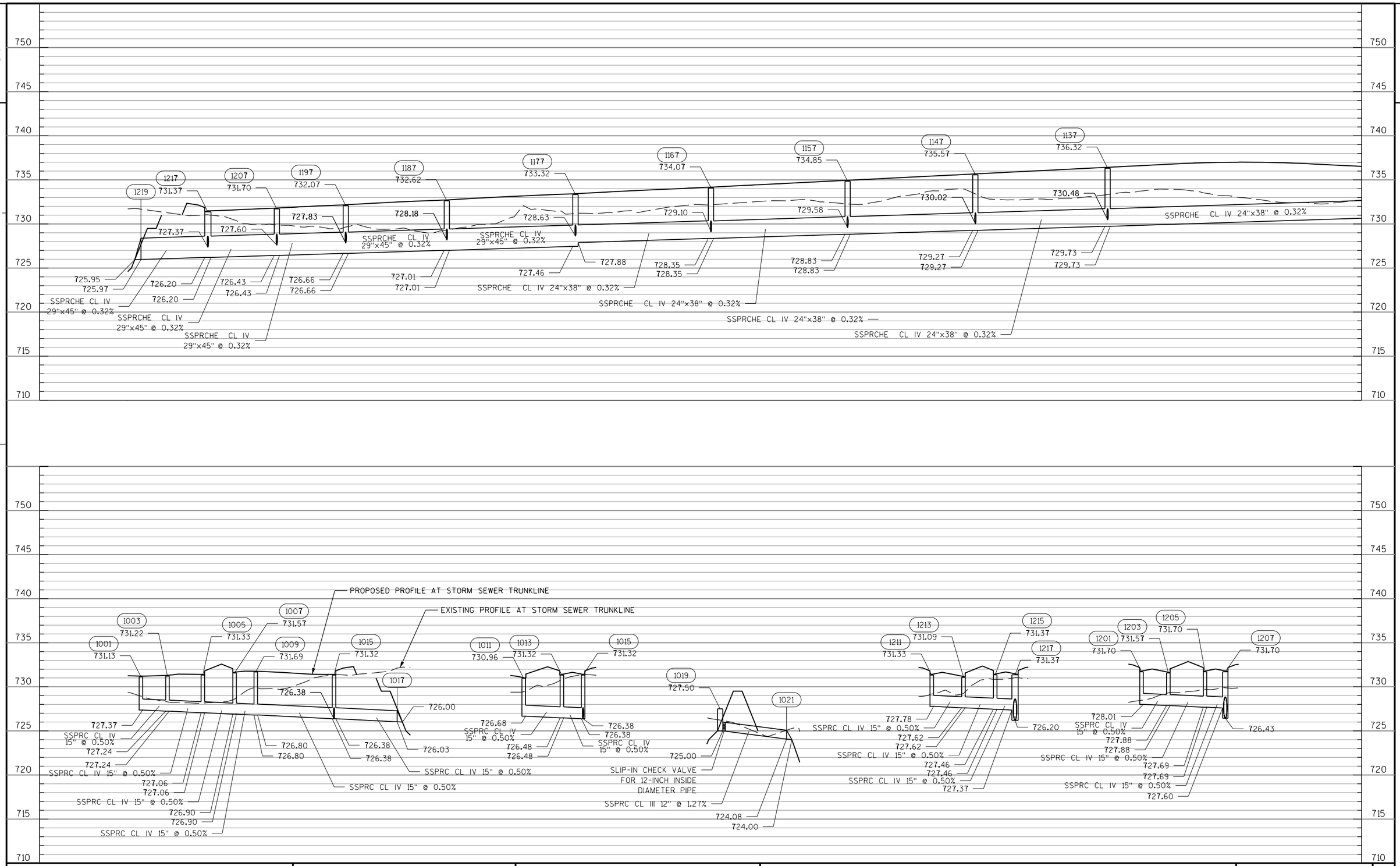
——→——	PROPOSED STORM SEWER PIPE PLAN VIEW
——→——	EXISTING STORM SEWER PLAN VIEW
- - - - - -	EXISTING STORM SEWER PROFILE VIEW
(***)	PROPOSED DRAINAGE STRUCTURE
(E***)	EXISTING DRAINAGE STRUCTURE
●	PROPOSED MANHOLE
■	PROPOSED INLET
△	PROPOSED ENDWALL
P***	PROPOSED STORM SEWER PIPE
PE***	EXISTING STORM SEWER PIPE

2

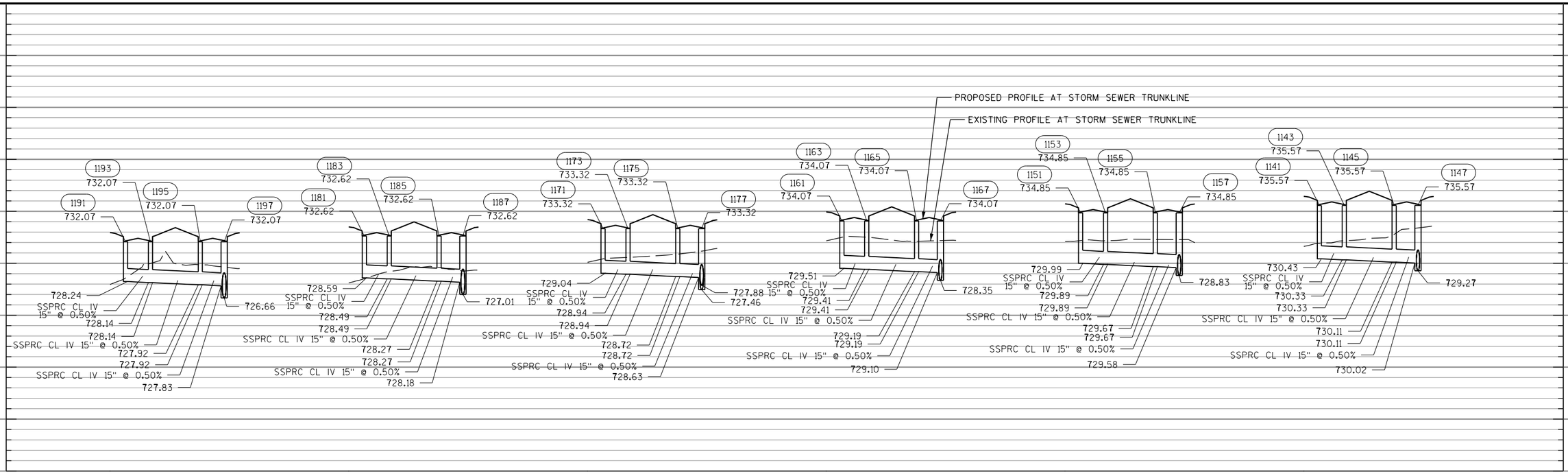


PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER PLAN: WISCONN VALLEY WAY	SHEET 149	E

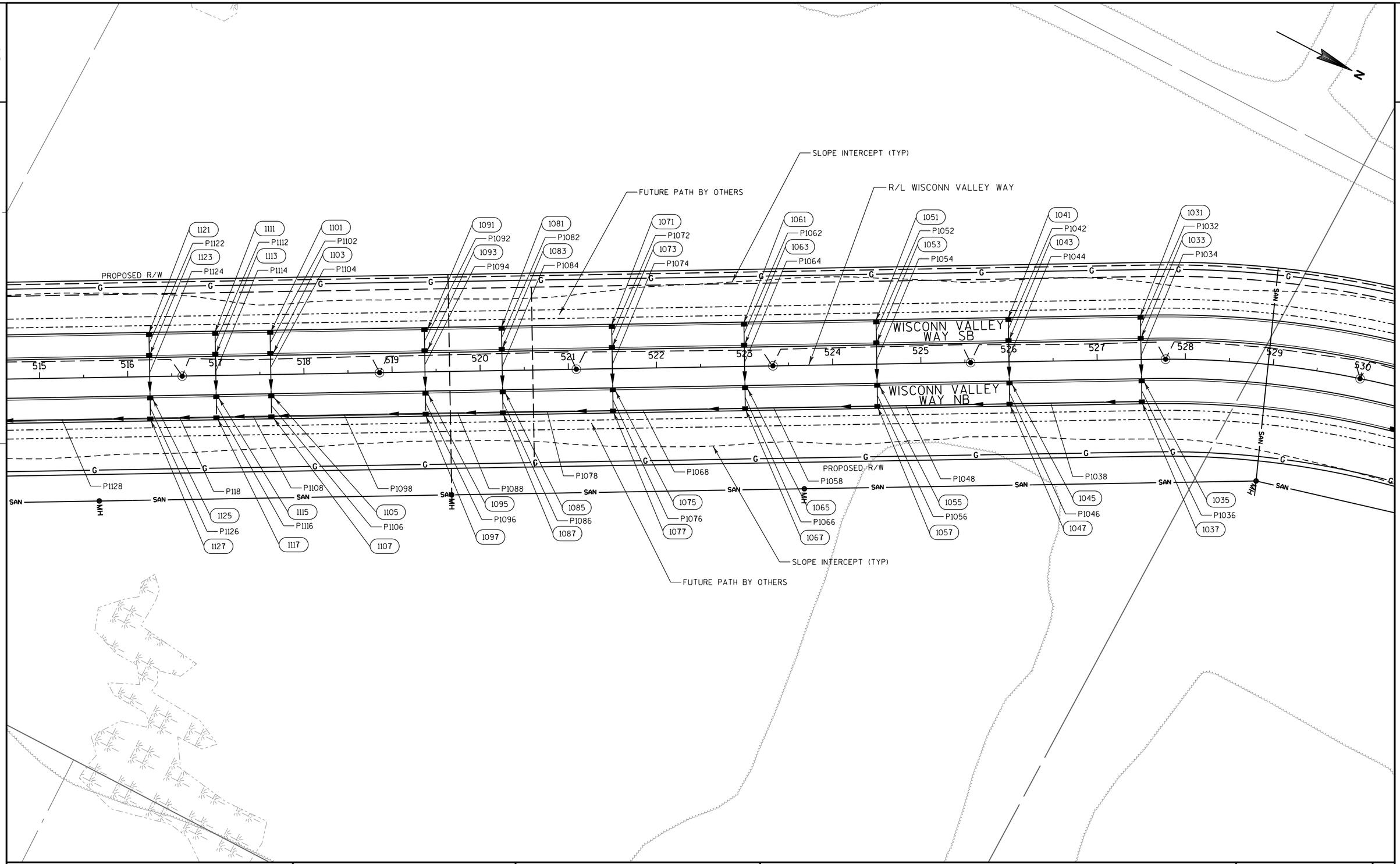
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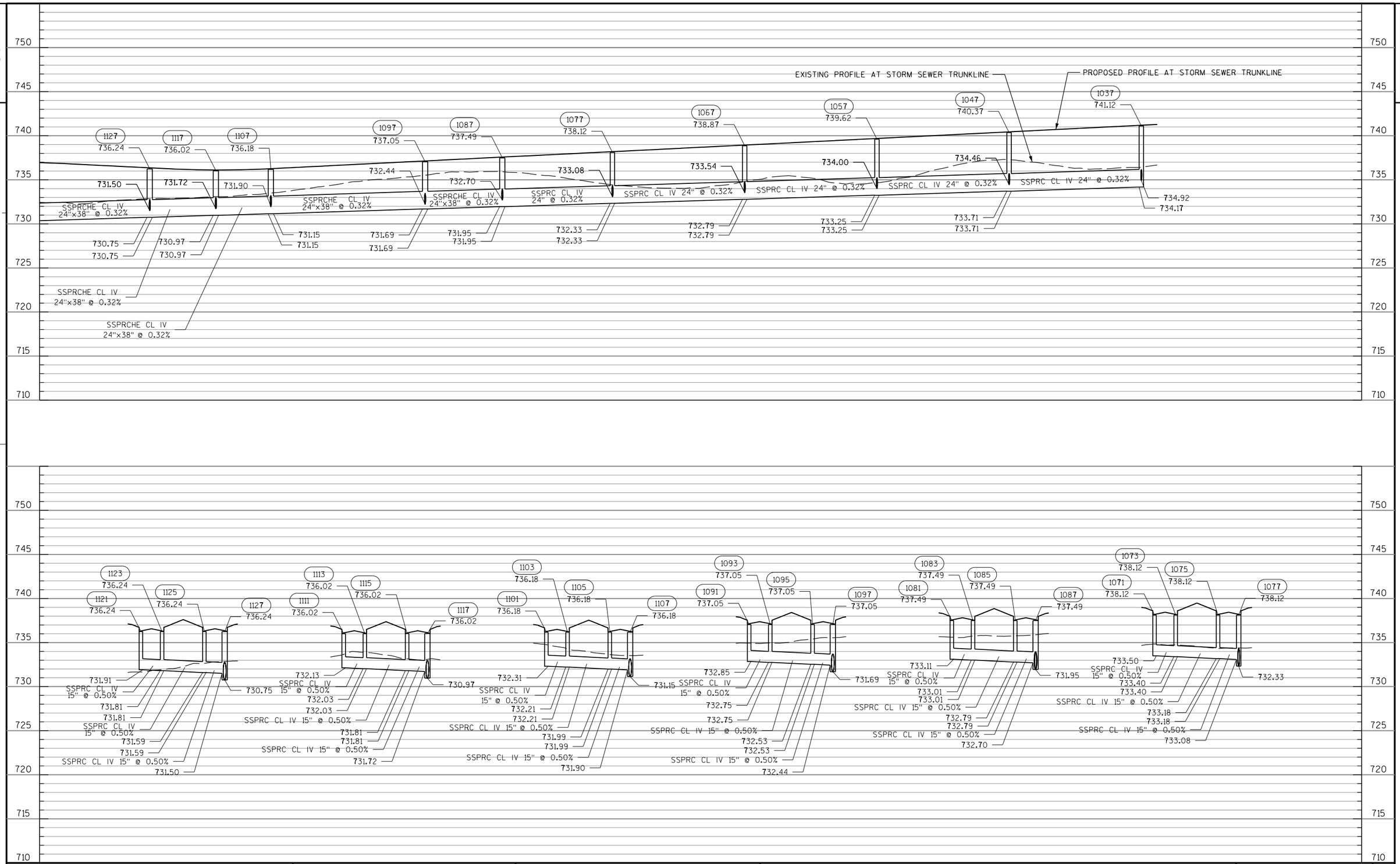
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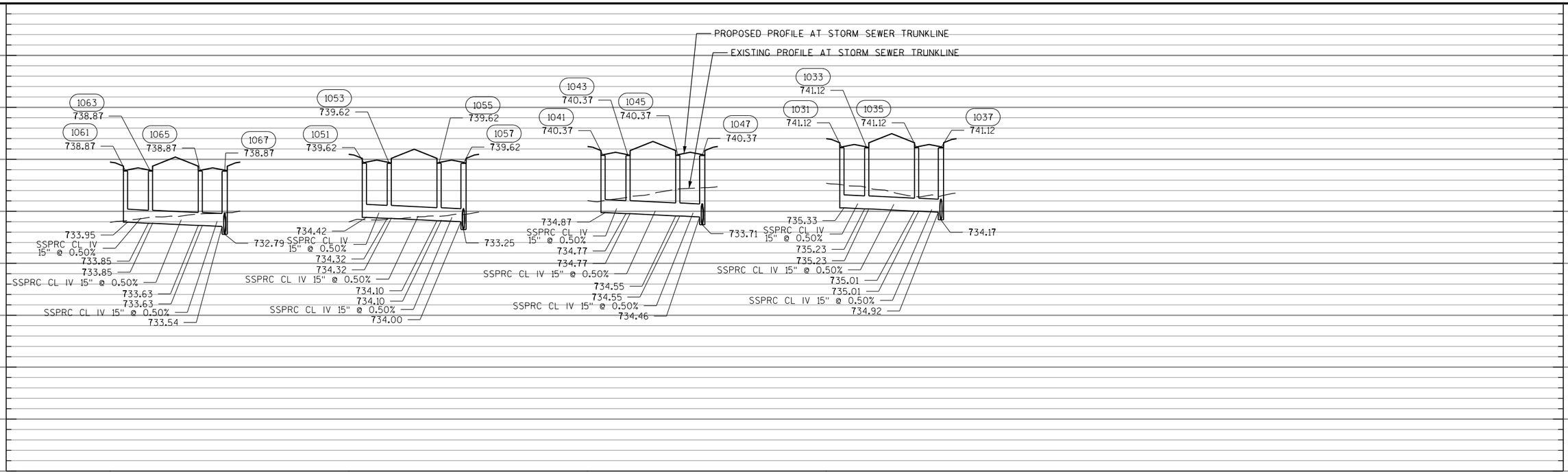
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PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER PLAN: WISCONN VALLEY WAY	SHEET 152	E

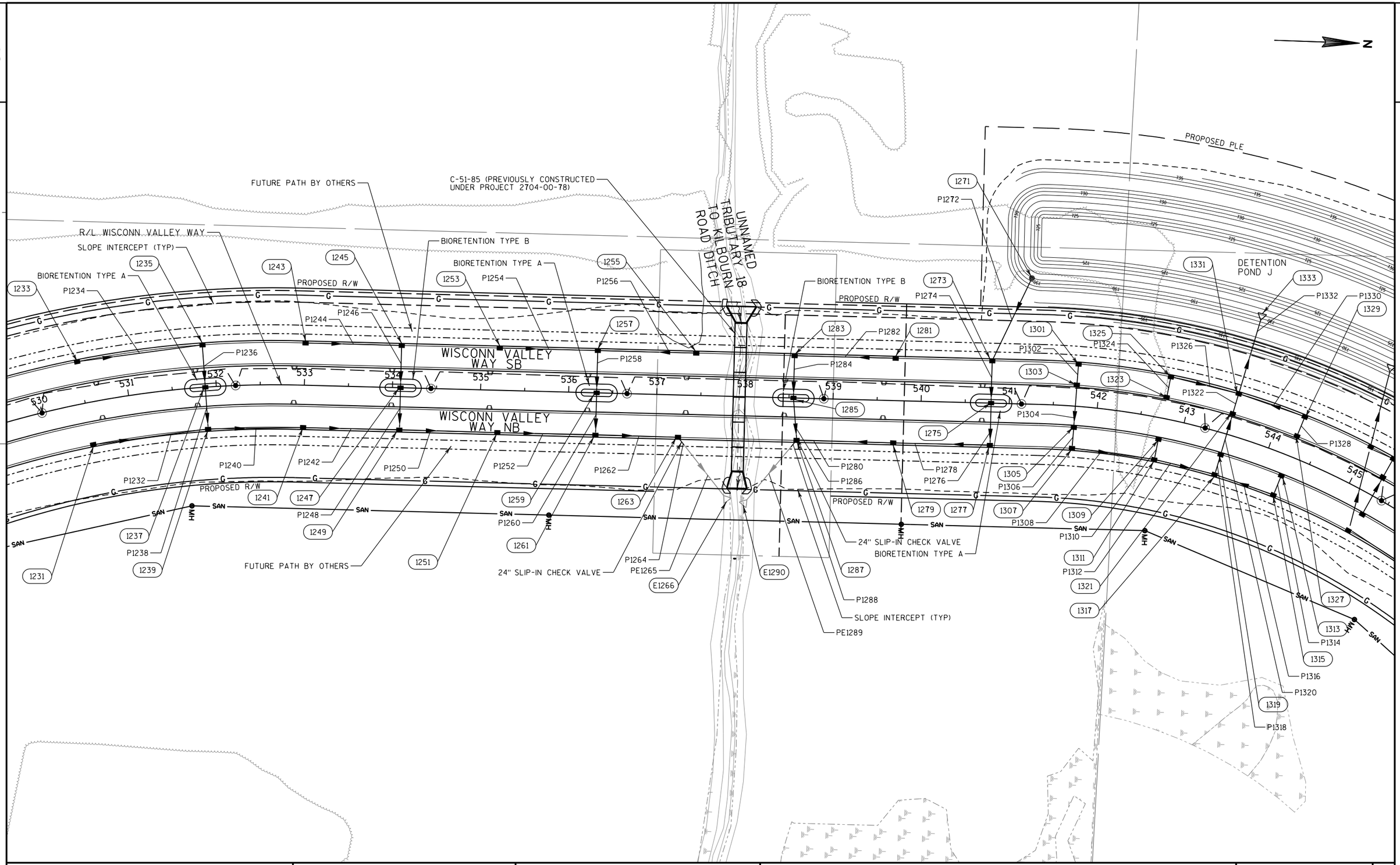


PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER PLAN AND PROFILE: WISCONN VALLEY WAY	SHEET 153	E



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER PLAN AND PROFILE: WISCONN VALLEY WAY	SHEET 154	E

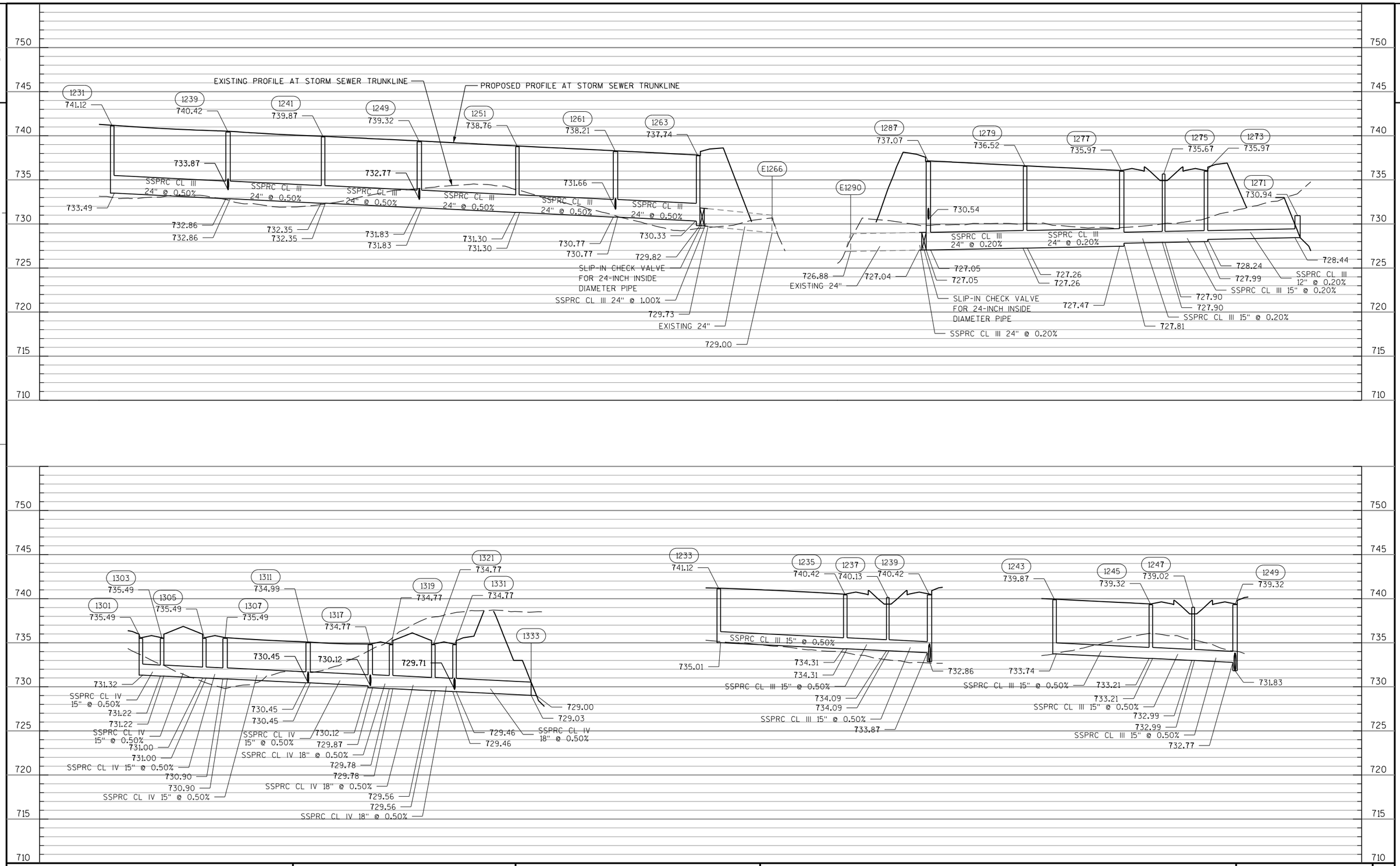
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WISDOT/CADDS SHEET 41



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER PLAN: WISCONN VALLEY WAY	SHEET 155	E

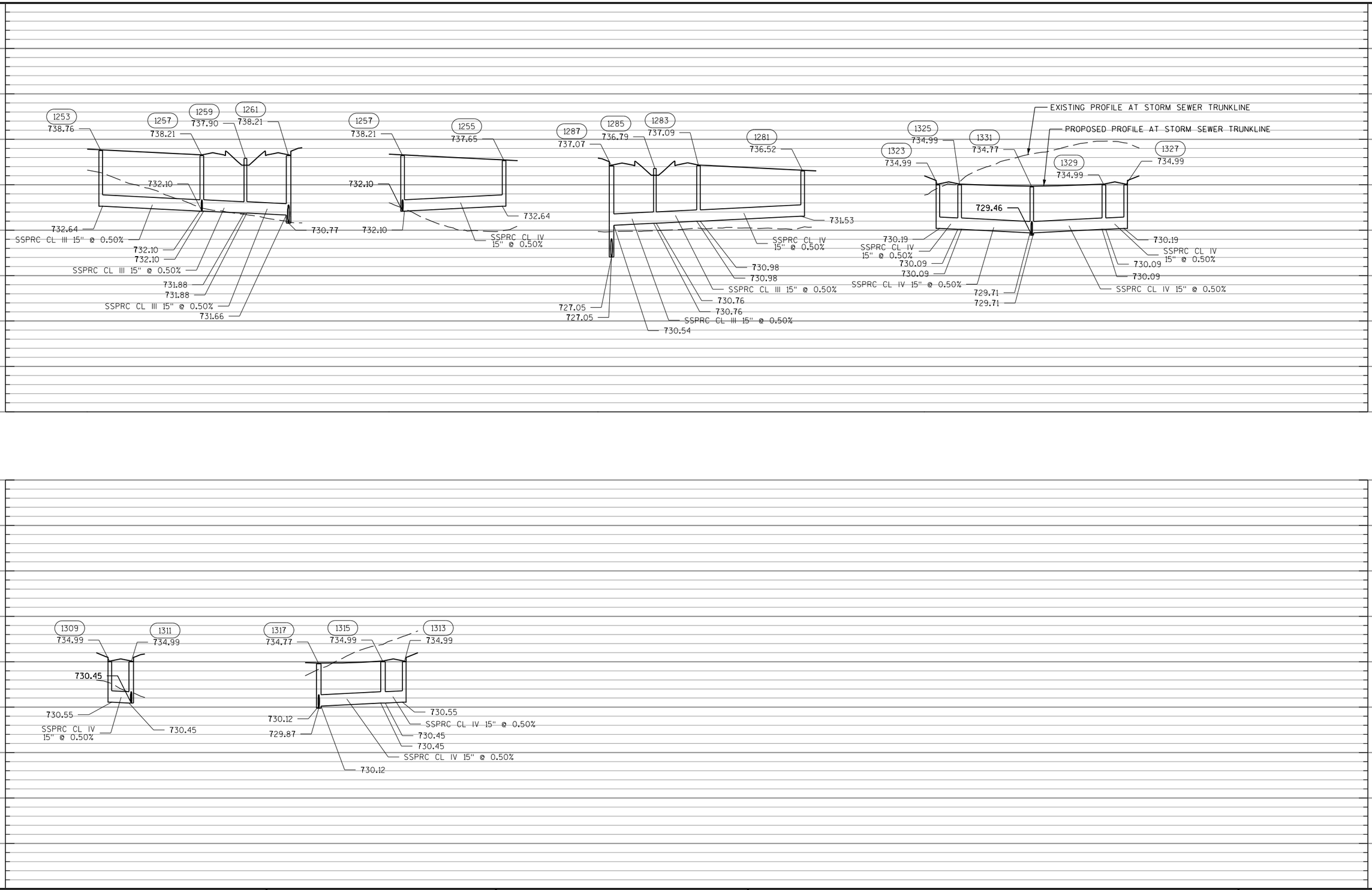
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WISDOT/CADDS SHEET 41



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER PLAN AND PROFILE: WISCONN VALLEY WAY	SHEET 156 E

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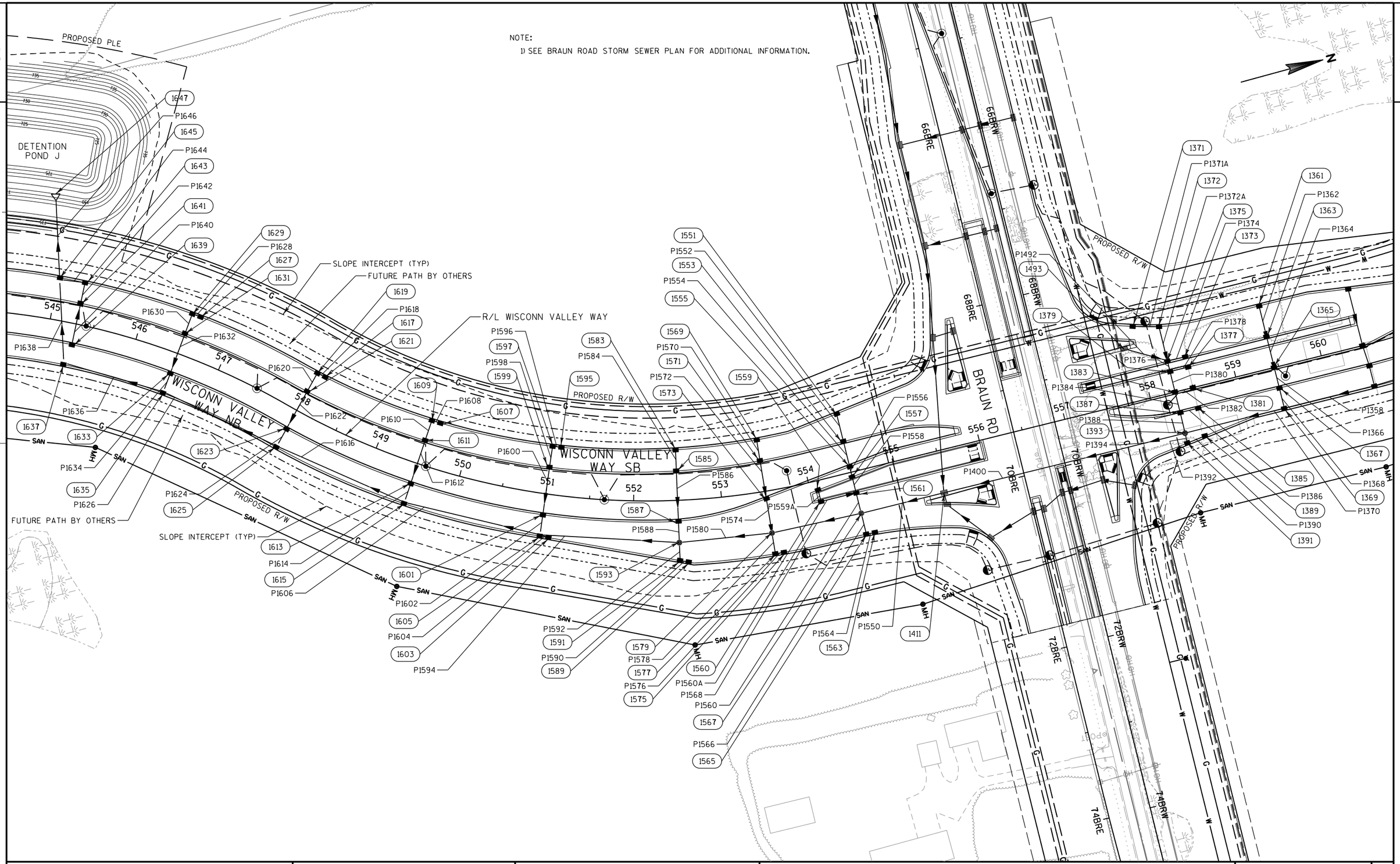


PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER PLAN AND PROFILE: WISCONN VALLEY WAY	SHEET 157	E

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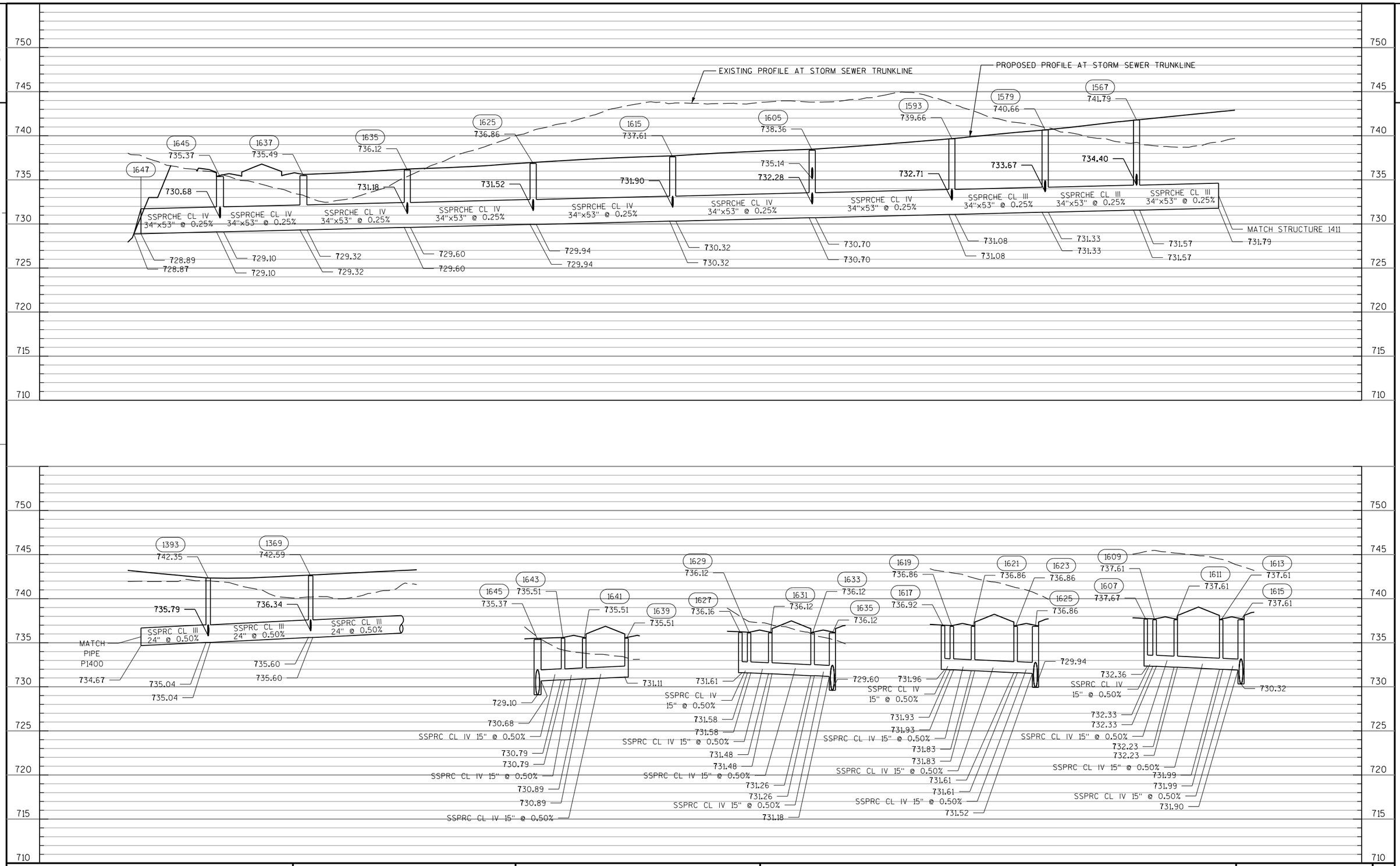
WISDOT/CADDS SHEET 41

NOTE:
1) SEE BRAUN ROAD STORM SEWER PLAN FOR ADDITIONAL INFORMATION.



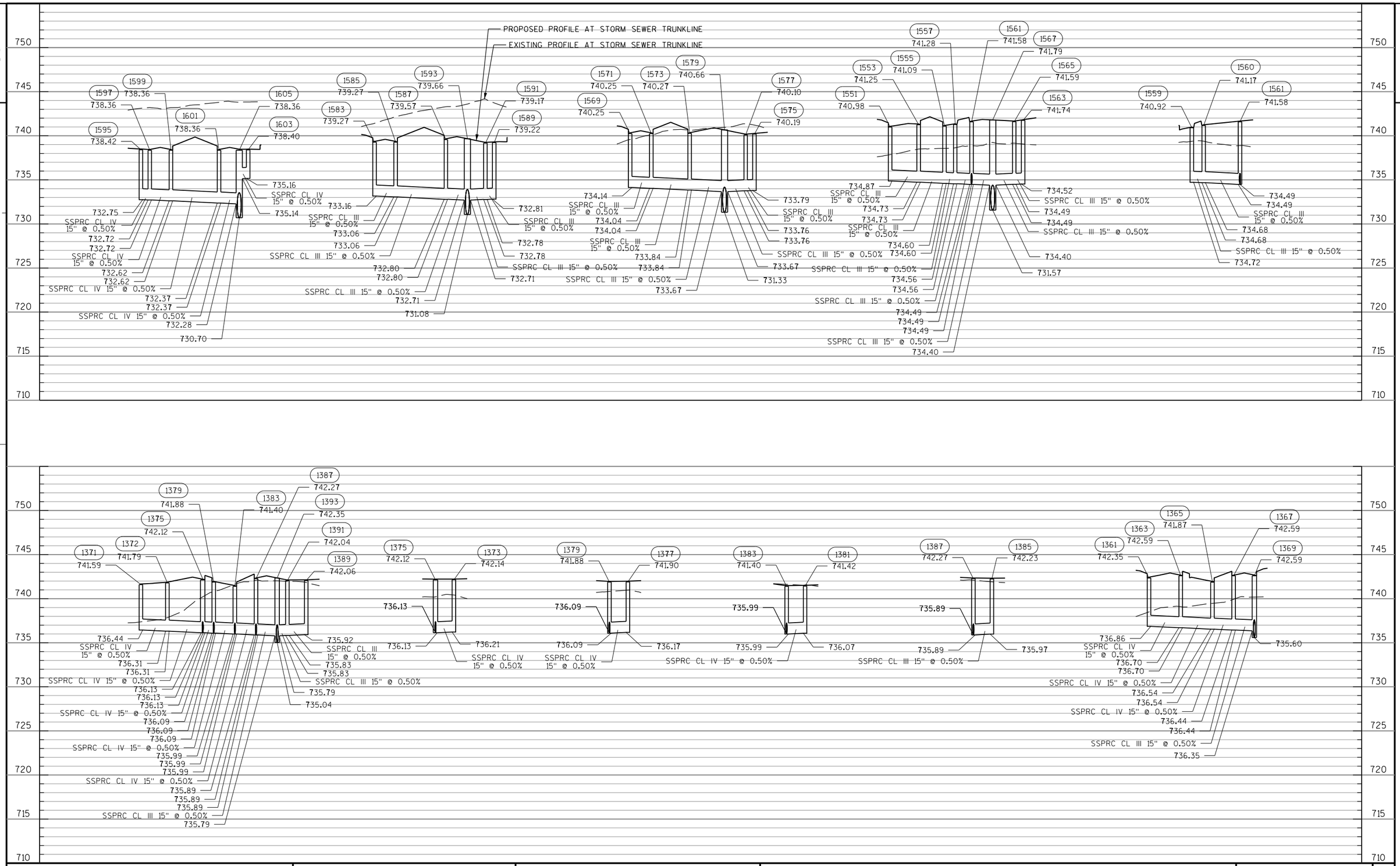
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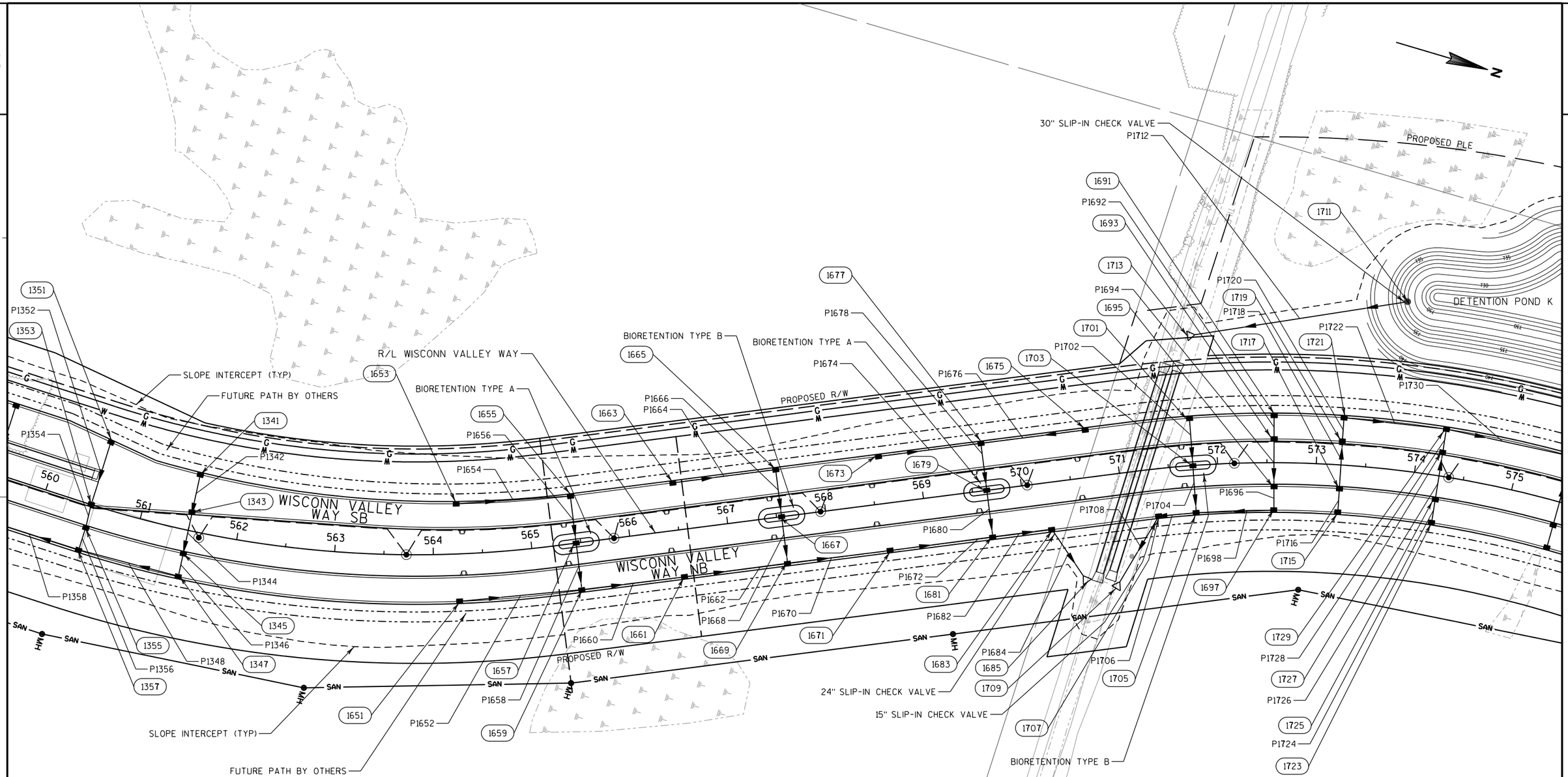
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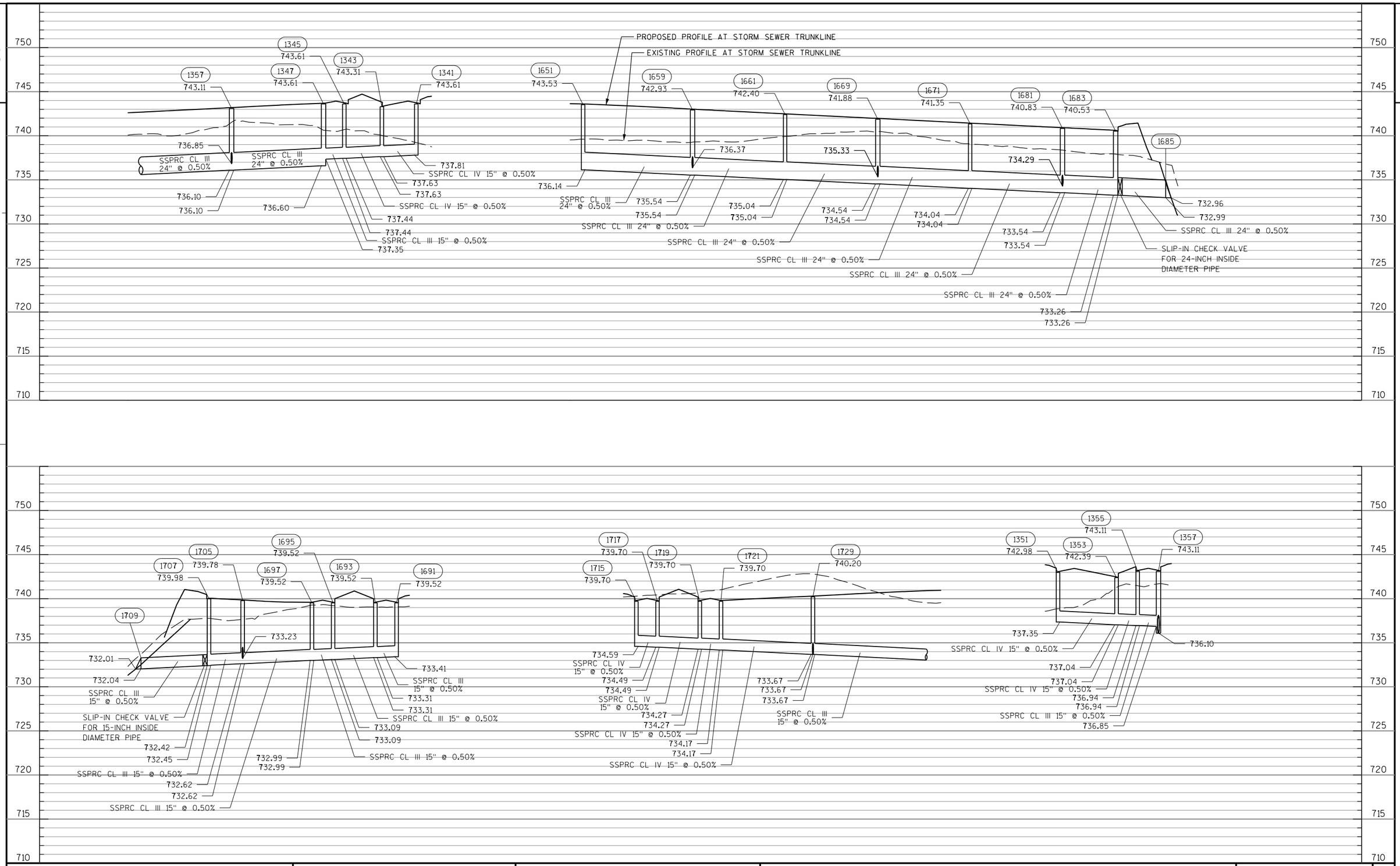
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WISDOT/CADDS SHEET 41



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER PLAN: WISCONN VALLEY WAY	SHEET 161	E

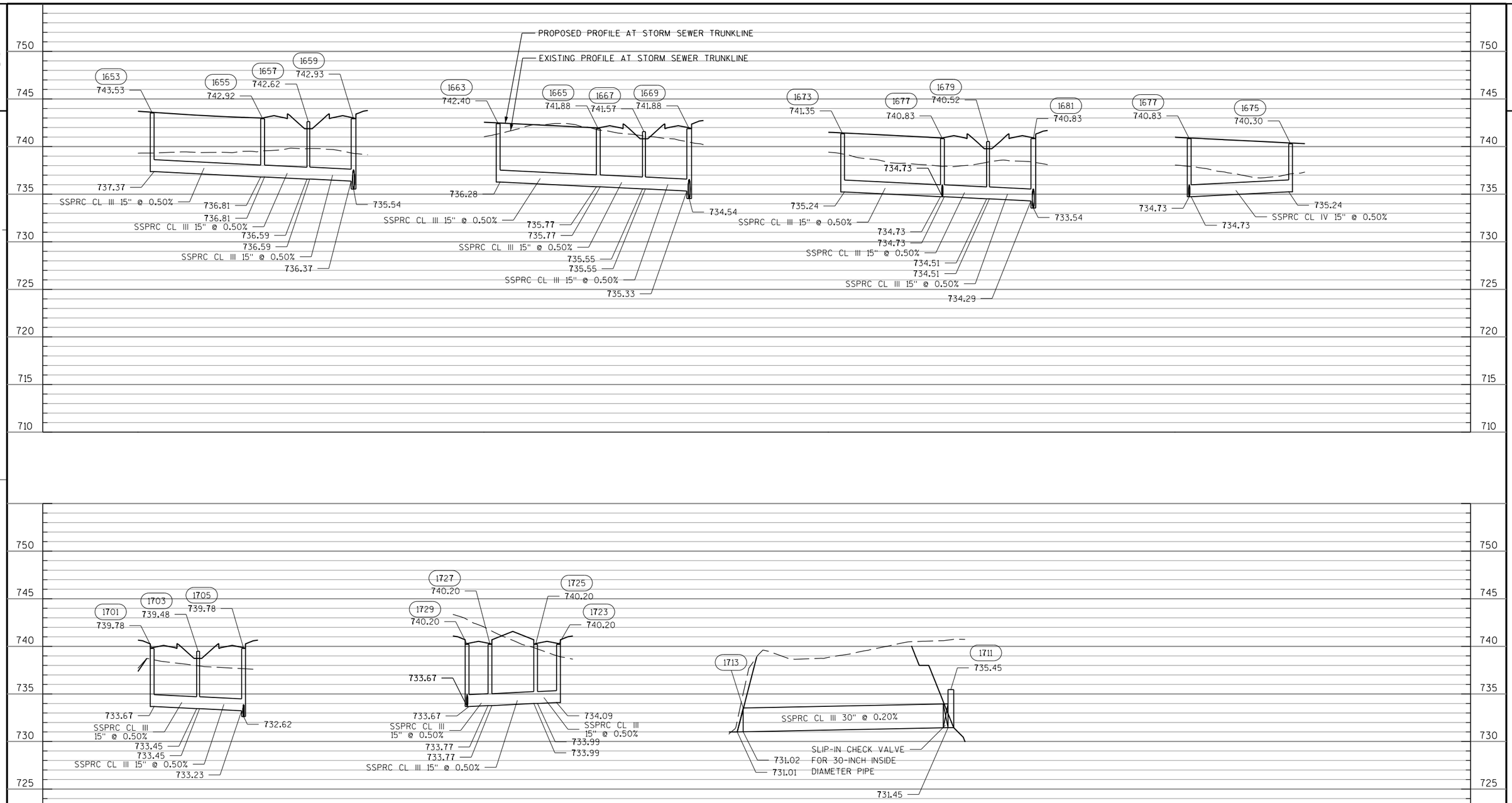
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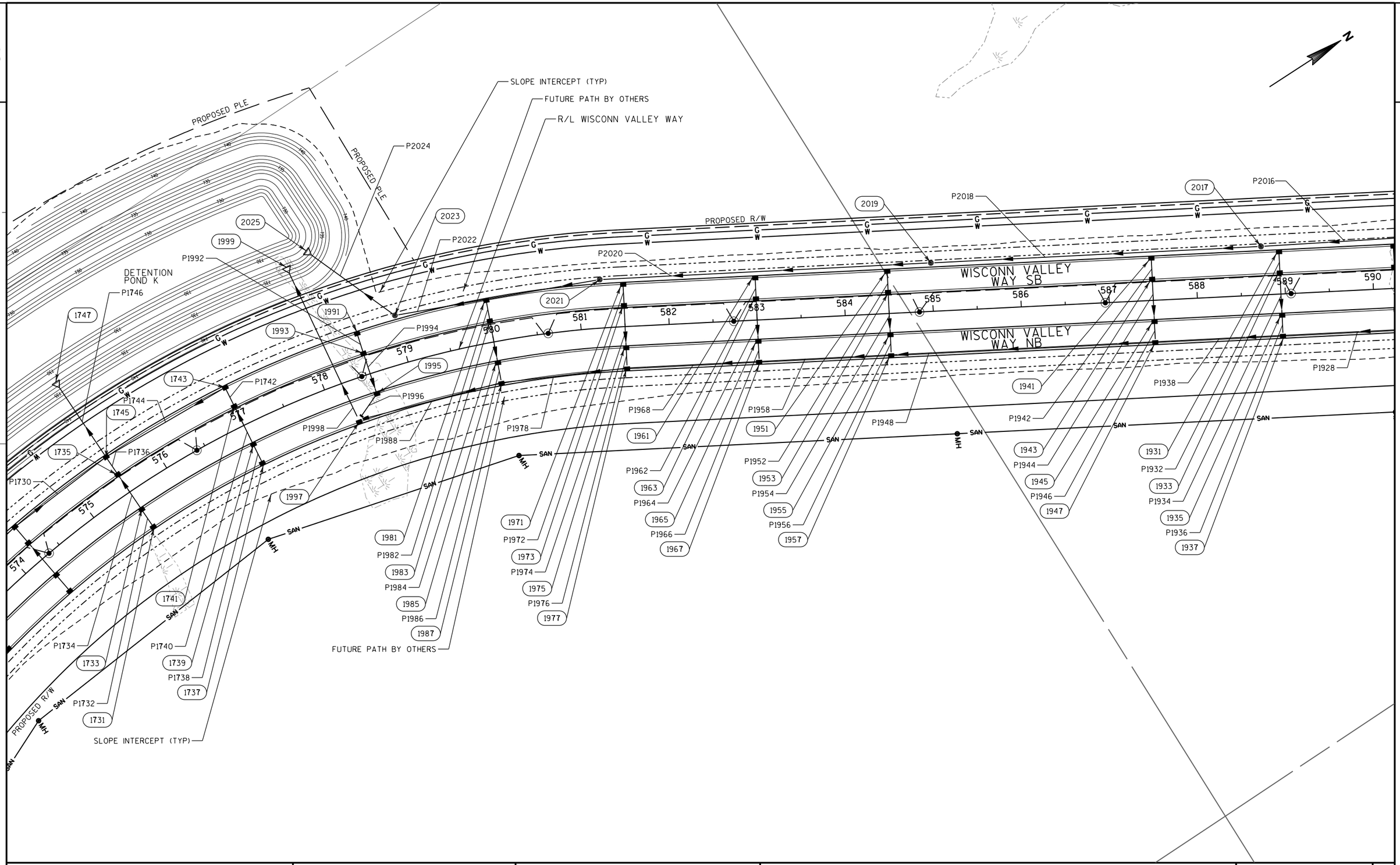
PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER PLAN AND PROFILE: WISCONN VALLEY WAY	SHEET 162 E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\022505A_SS.dgn PLOT DATE : 1/23/2019 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 41



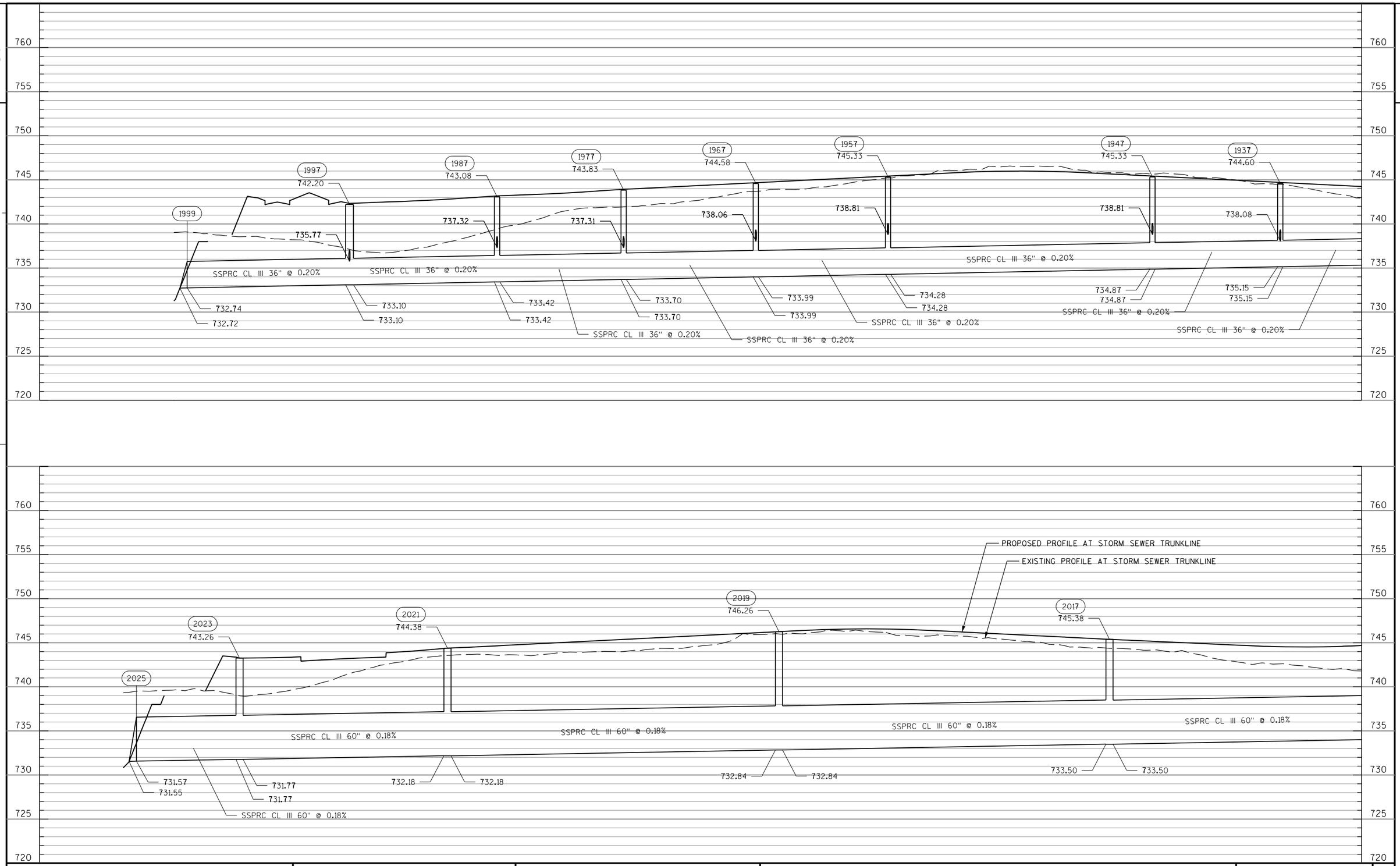
PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER PLAN AND PROFILE: WISCONN VALLEY WAY	SHEET 163 E



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER PLAN: WISCONN VALLEY WAY	SHEET 164	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\022506_SS.dgn PLOT DATE : 12/20/2018 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

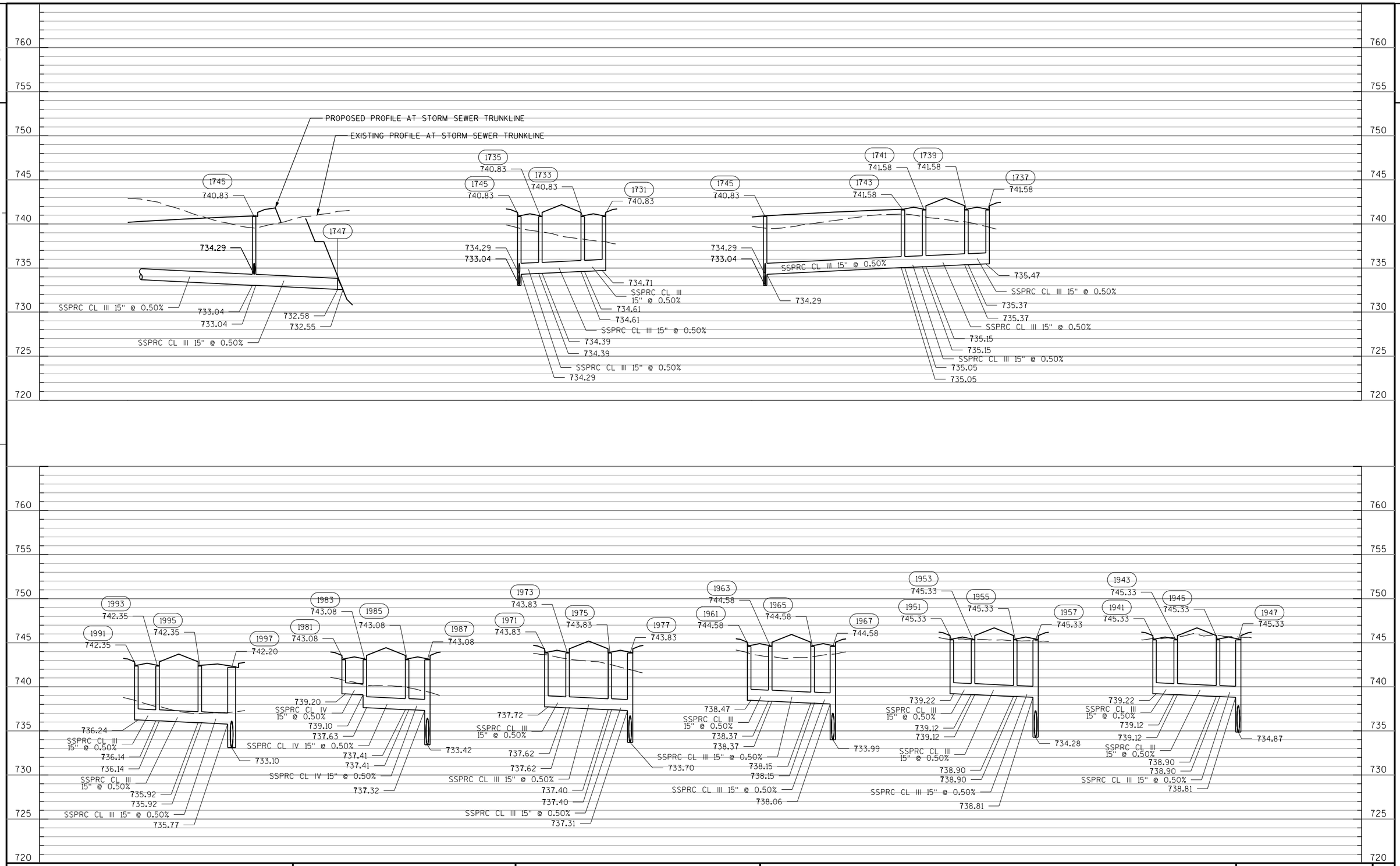
WISDOT/CADDS SHEET 41



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER PLAN AND PROFILE: WISCONN VALLEY WAY	SHEET 165 E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\022506A_SS.dgn PLOT DATE : 12/20/2018 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

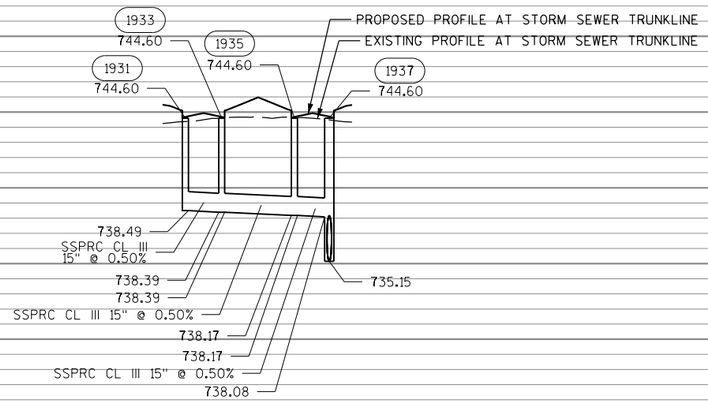
WISDOT/CADDS SHEET 41



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER PLAN AND PROFILE: WISCONN VALLEY WAY	SHEET 166 E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Planshets\27040076\022506B_SS.dgn PLOT DATE : 12/20/2018 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

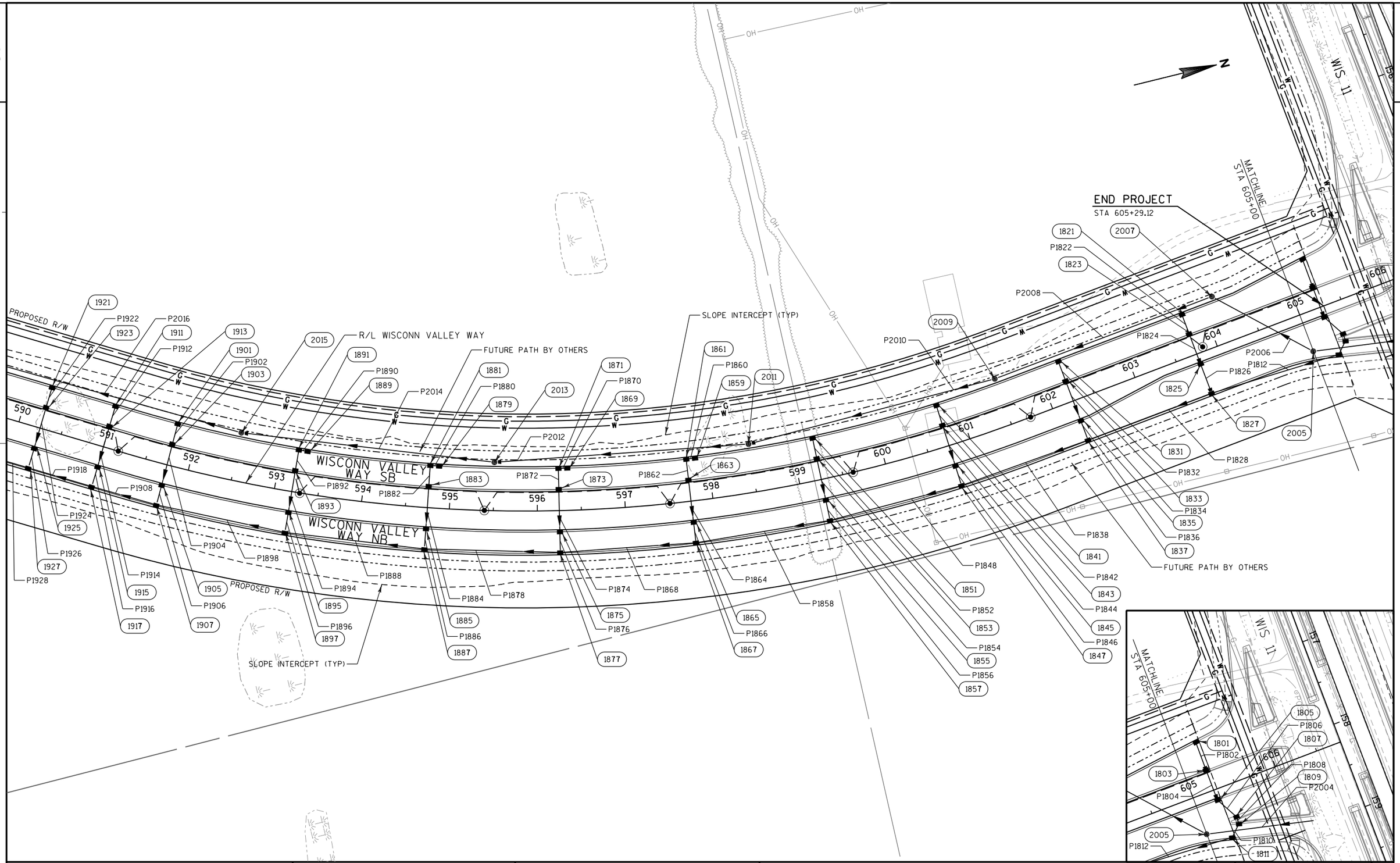
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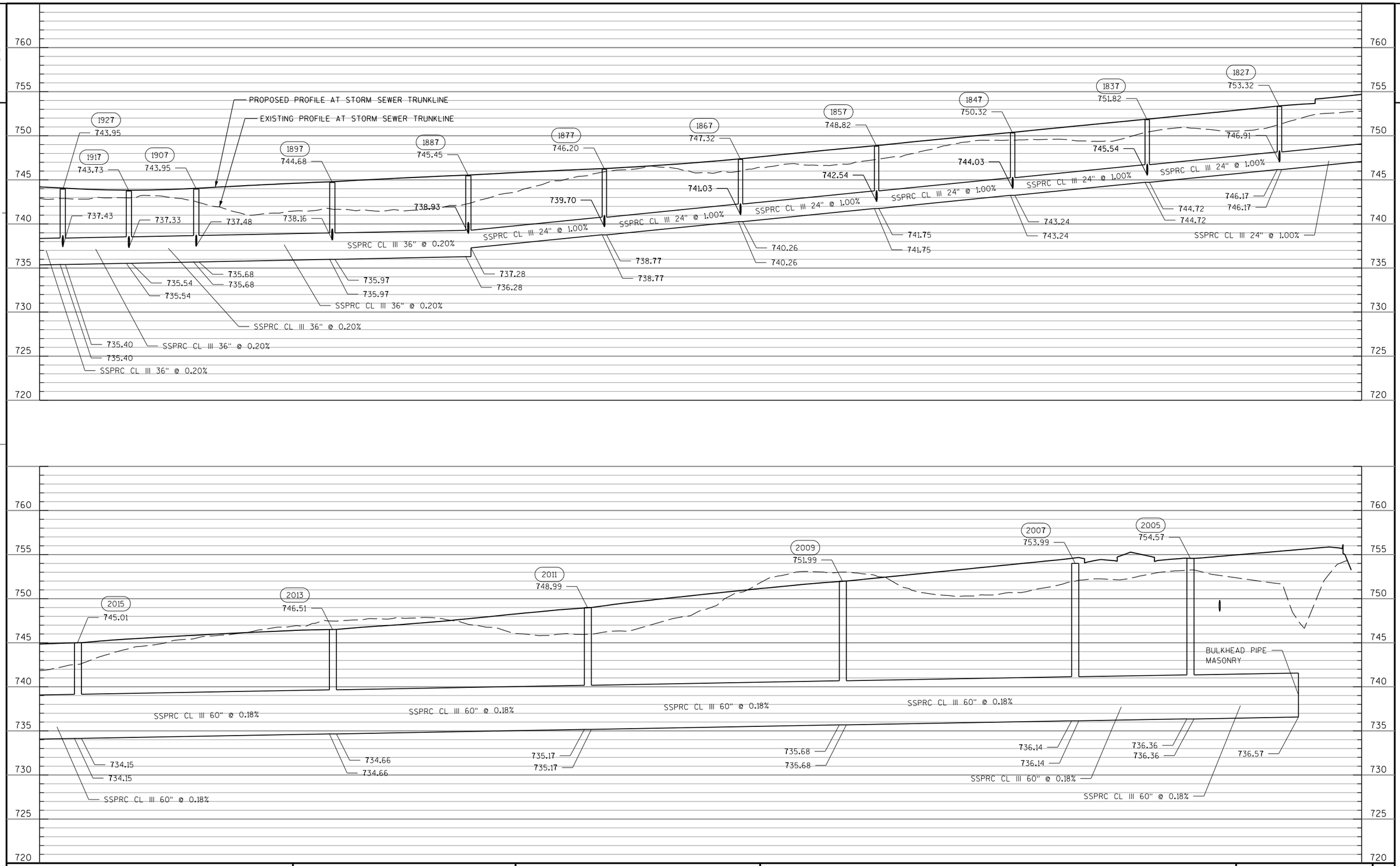
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PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER PLAN AND PROFILE: WISCONN VALLEY WAY	SHEET 167	E



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER PLAN: WISCONN VALLEY WAY	SHEET 168 E

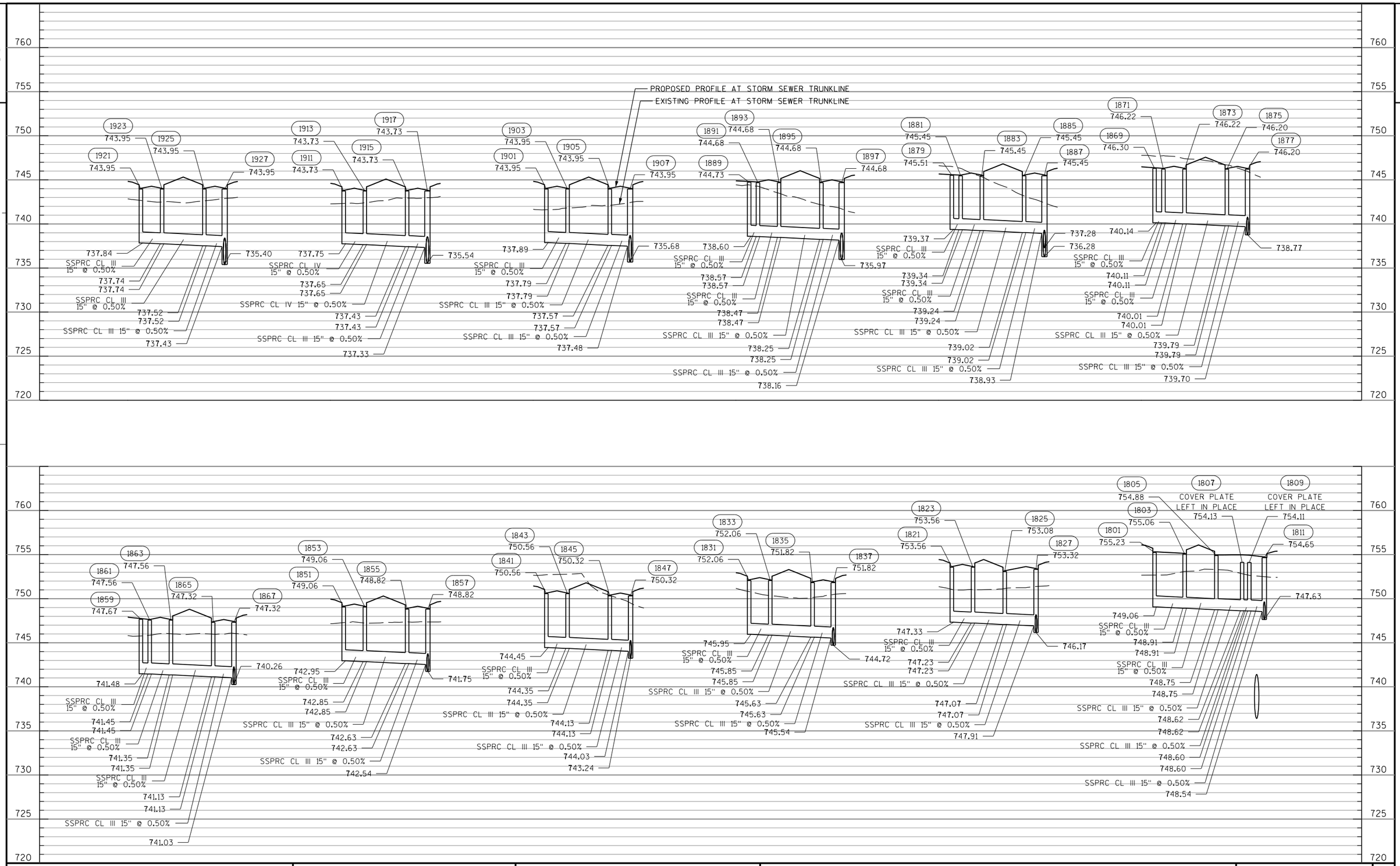
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PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER PLAN AND PROFILE: WISCONN VALLEY WAY	SHEET 169 E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\022507A_SS.dgn PLOT DATE : 12/20/2018 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

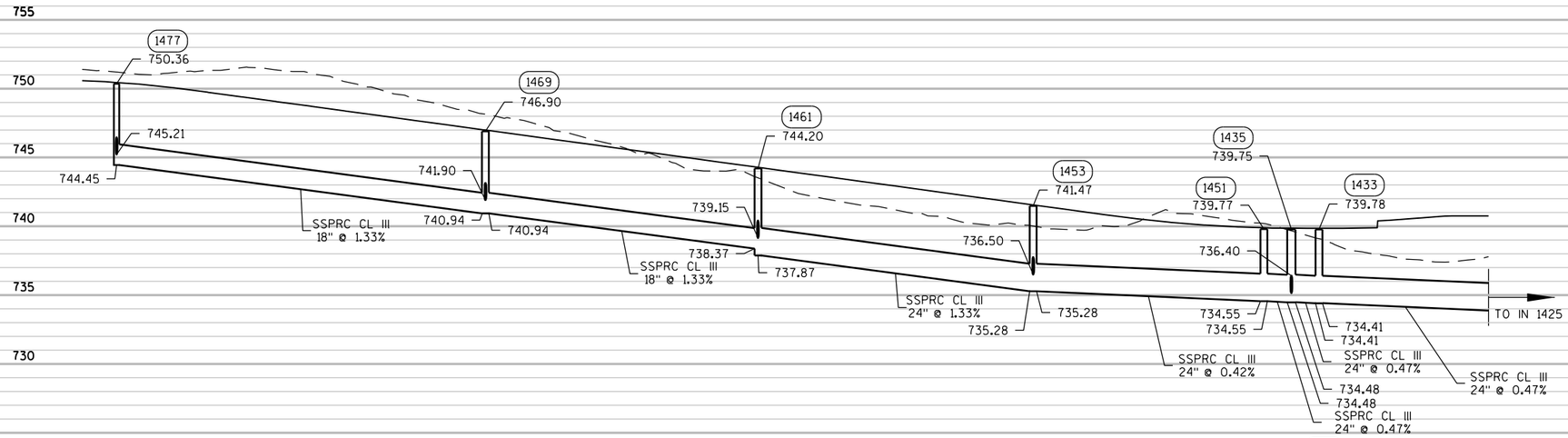
WISDOT/CADDS SHEET 41

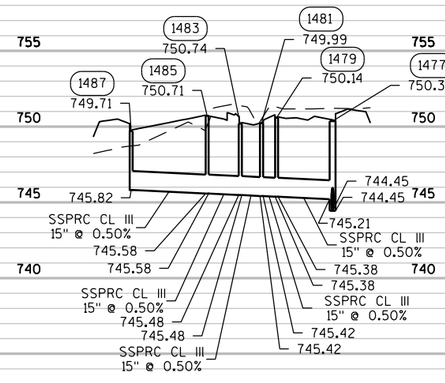


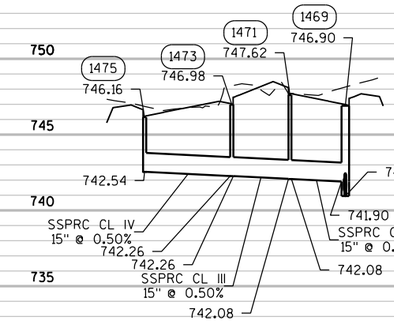
PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER PLAN AND PROFILE: WISCONN VALLEY WAY	SHEET 170 E

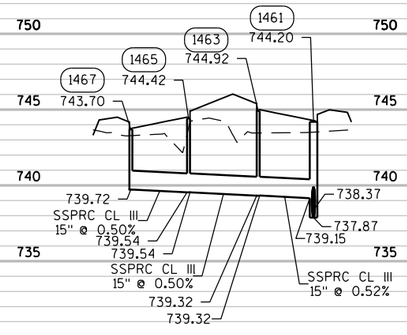
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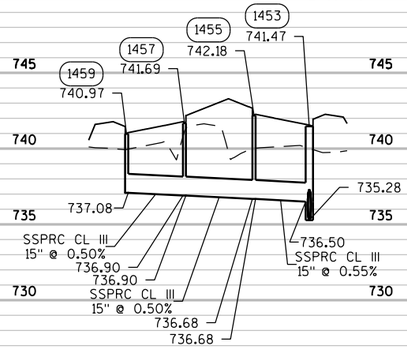
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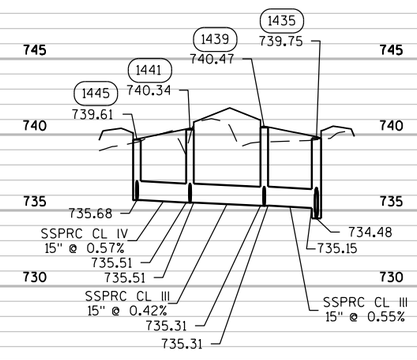


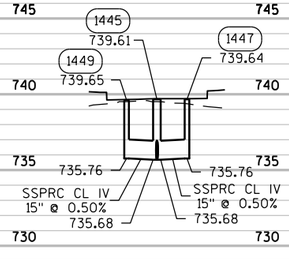


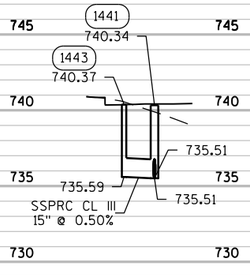


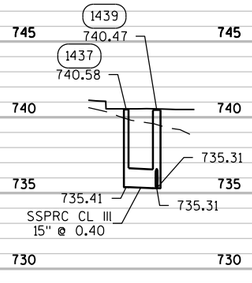












PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER: BRAUN ROAD PROFILES	SHEET 171	E

2

2

N

WISCONN VALLEY WAY SB

WISCONN VALLEY WAY NB

BRAUN ROAD WB

BRAUN ROAD EB

R/L BRAUN ROAD WB

R/L BRAUN ROAD EB

PROPOSED R/W

SLOPE INTERCEPT (TYP.)

CONCRETE COLLAR TO ADD AT END OF P1394

MATCHLINE 64BRE+90

1375 1393 P1492 P1394 1493 1489 P1488 1401 1431 P1430 1423 1429 P1402 P1400 1403 P1404 P1422 1405 P1428 1415 P1490 1421 P1420 P1406 1427 1491 1419 P1414 1407 P1426 P1418 1413 P1408 P1432 1409 1417 1425 P1412 P1410 P1424 P1416 1411 P1495 1494 P1550 1563

554 553 552 551 557 556 559 560 558

66BRW 68BRW 70BRW 72BRW 74BRW 76BRW 78BRW 80BRW

66BRE 68BRE 70BRE 72BRE 74BRE 76BRE 80BRE

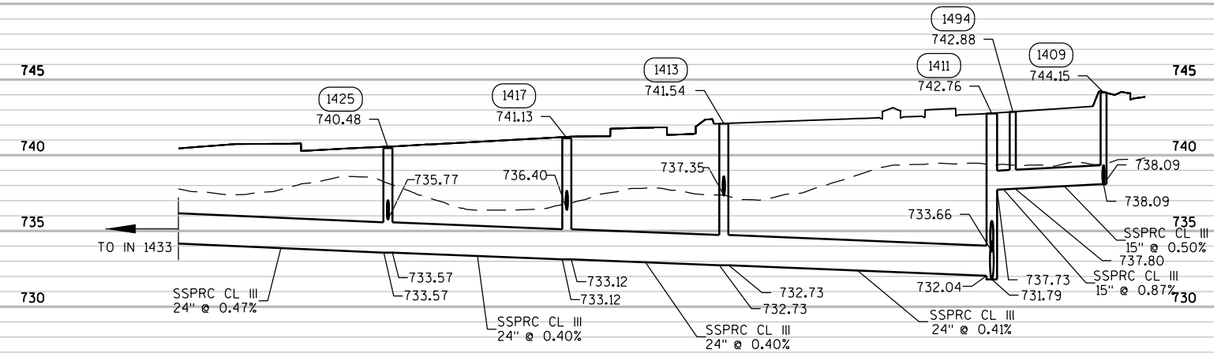
MH SAN G W OH POST

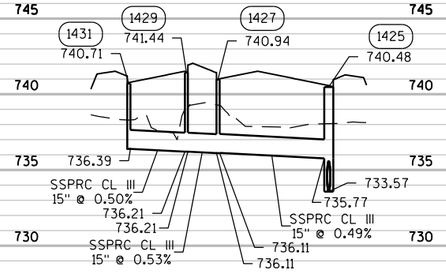
PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER: BRAUN ROAD	SHEET	E

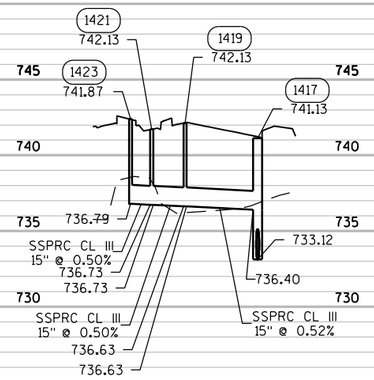
FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PlotSheets\225022_sht_P2018.dgn 9:43:07 AM PLOT BY : apatek PLOT NAME : PLOT SCALE : 100:1

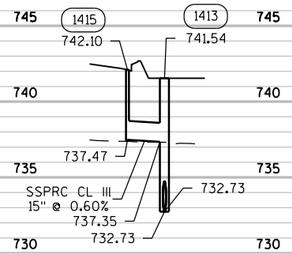
WISDOT/CADDS SHEET 42

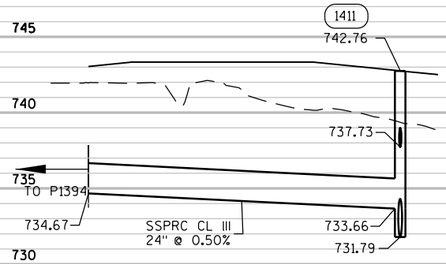
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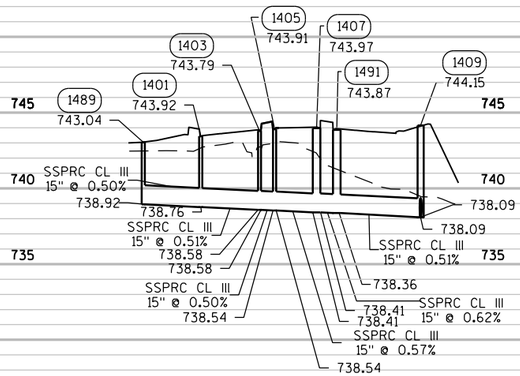


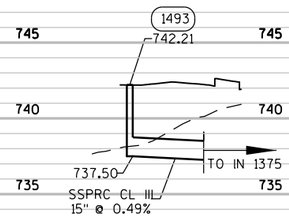




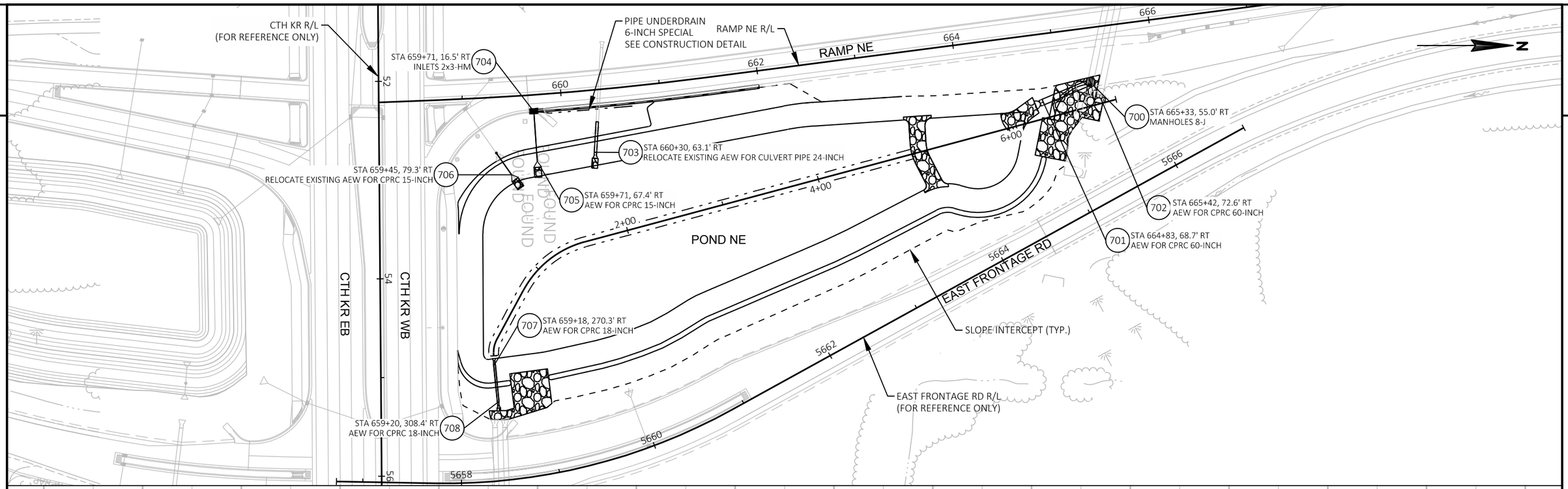


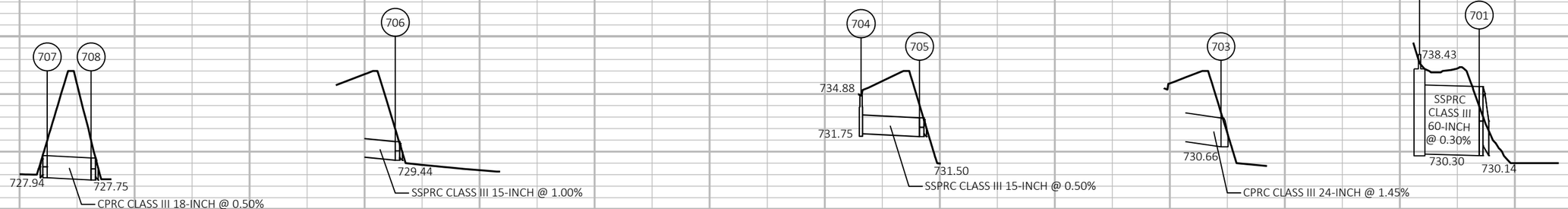






PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER: BRAUN ROAD PROFILES	SHEET 173	E





PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER: POND NE	SHEET 174	E

FILE NAME : J:\ACTIVE\SE\1030-20-15 RACINE PACKAGE B\C3D\10302015\SHEETSPLAN\1035-03-01 CTH KR INTERCHANGE\NE POND\022501-SS.DWG
LAYOUT NAME - 01
PLOT DATE : 1/28/2019 9:37 AM
PLOT BY : CORY IHDE
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 41

2

BEGIN PROJECT
STA 501+54.47

FUTURE PATH BY OTHERS

SLOPE INTERCEPT (TYP)

PROPOSED R/W

R/L WISCONN VALLEY WAY

WISCONN VALLEY WAY SB

WISCONN VALLEY WAY NB

501 502 503 504 505 506 507 508 509 510 511 512 513

CTH KR

373 374 375 376 377 378 379 380 381 382

POND 1

CURVE 1

CURVE 2

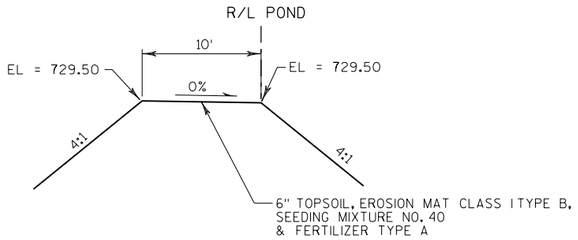
CURVE 3

CURVE 4

10' WIDE MAINTENANCE ROAD

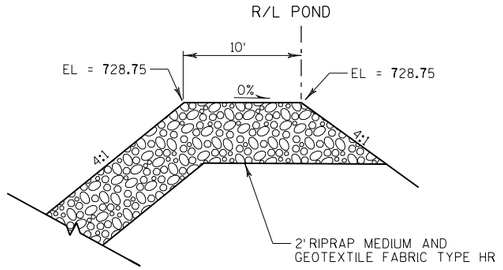
CURVE 1	CURVE 2	CURVE 3	CURVE 4
PC=1+00.00	PC=2+99.12	PC=4+68.23	PC=6+67.35
X=596902.68	X=597077.10	X=597119.69	X=596945.27
Y=165376.52	Y=165418.83	Y=165274.41	Y=165232.10
PI=1+44.00	PI=3+43.12	PI=5+12.23	PI=7+11.35
X=596903.10	X=597121.09	X=597119.26	X=596901.27
Y=165420.52	Y=165418.40	Y=165230.41	Y=165232.53
PT=1+69.12	PT=3+68.23	PT=5+37.35	PT=7+36.46
X=596947.10	X=597120.67	X=597075.27	X=596901.70
Y=165420.09	Y=165374.40	Y=165230.84	Y=165276.53
R=44.0000	R=44.0000	R=44.0000	R=44.0000
DELTA=90°00'00" RT	DELTA=90°00'00" RT	DELTA=90°00'00" RT	DELTA=90°00'00" RT
D=130°13'04"	D=130°13'04"	D=130°13'04"	D=130°13'04"
L=69.1150	L=69.1150	L=69.1150	L=69.1150
T=44.0000	T=44.0000	T=44.0000	T=44.0000
BK=N 0°33'27" E	BK=S 89°26'33" E	BK=S 0°33'27" W	BK=N 89°26'33" W
AH=S 89°26'33" E	AH=S 0°33'27" W	AH=N 89°26'33" W	AH=N 0°33'27" E

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER POND OVERVIEW	SHEET 175	E



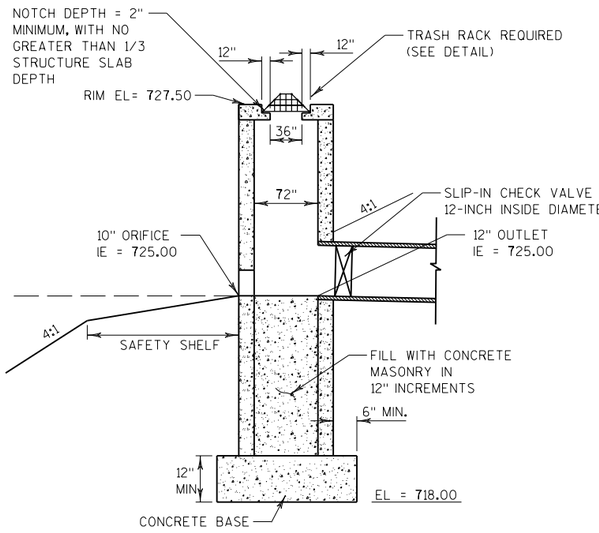
TYPICAL SECTION POND ACCESS ROAD

STA 0+00.00 TO STA 4+40.00
STA 4+50.00 TO STA 7+36.46



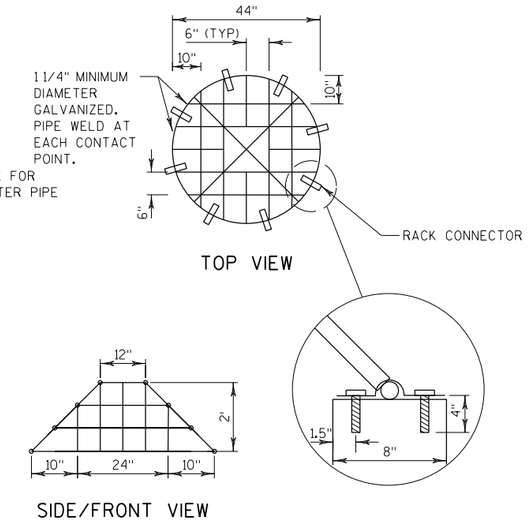
TYPICAL SECTION POND ACCESS ROAD - OVERFLOW

STA 4+40.00 TO STA 4+50.00



POND 1 OUTLET STORM SEWER STRUCTURE DETAIL

STRUCTURE 1019
MANHOLE 6-FT
NTS



TRASH RACK

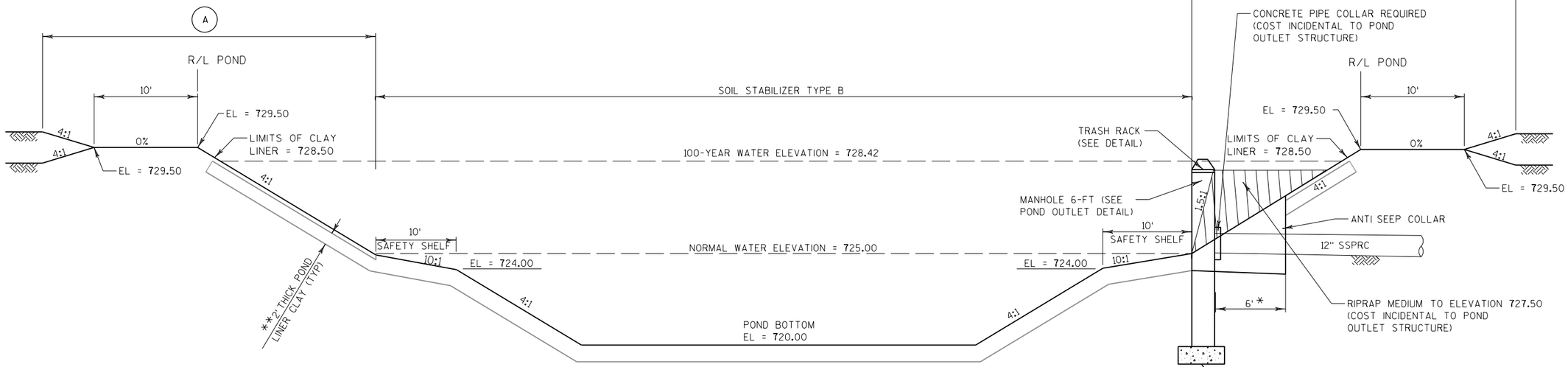
NTS

NOTES

1. REFER TO STANDARD DETAIL DRAWING FOR MANHOLE 6-FT FOR ADDITIONAL INFORMATION.
2. OUTLET STRUCTURE WILL BE PAID FOR AS POND 1 OUTLET STORM SEWER STRUCTURE.
3. TRASH RACKS WILL BE GALVANIZED OR SIMILARLY PROTECTED FROM CORROSION AND APPROVED BY THE ENGINEER.
4. CONNECTOR DEVICE WILL BE REMOVABLE AND APPROVED BY THE ENGINEER.
5. ANTI-SEEP COLLAR OF CLAY OR BENTONITE REQUIRED AROUND POND OUTLET DISCHARGE PIPE TO PREVENT BACKFLOW OF WATER THROUGH THE SEWER TRENCH. ANTI-SEEP COLLARS MUST EXTEND FROM 1-FOOT ABOVE THE TOP OF PIPE TO THE BOTTOM OF EXCAVATED TRENCH AND BE CONNECTED WITH THE POND LINER PER DETAIL. ANTI-SEEP COLLAR IS INCIDENTAL TO PIPE AND INSTALLATION.
6. RIPRAP PLACED ON TOP OF CLAY LINER NOT TO BE DUG IN.

* ANTI-SEEP COLLAR TO BE MINIMUM 1-FOOT FROM OUTLET PIPE JOINT. ANTI-SEEP COLLAR MAY COVER JOINT, SO LONG AS END OF COLLAR IS A MINIMUM 1-FOOT PAST JOINT. ANTI-SEEP COLLAR TO BE CONNECTED TO POND LINER.

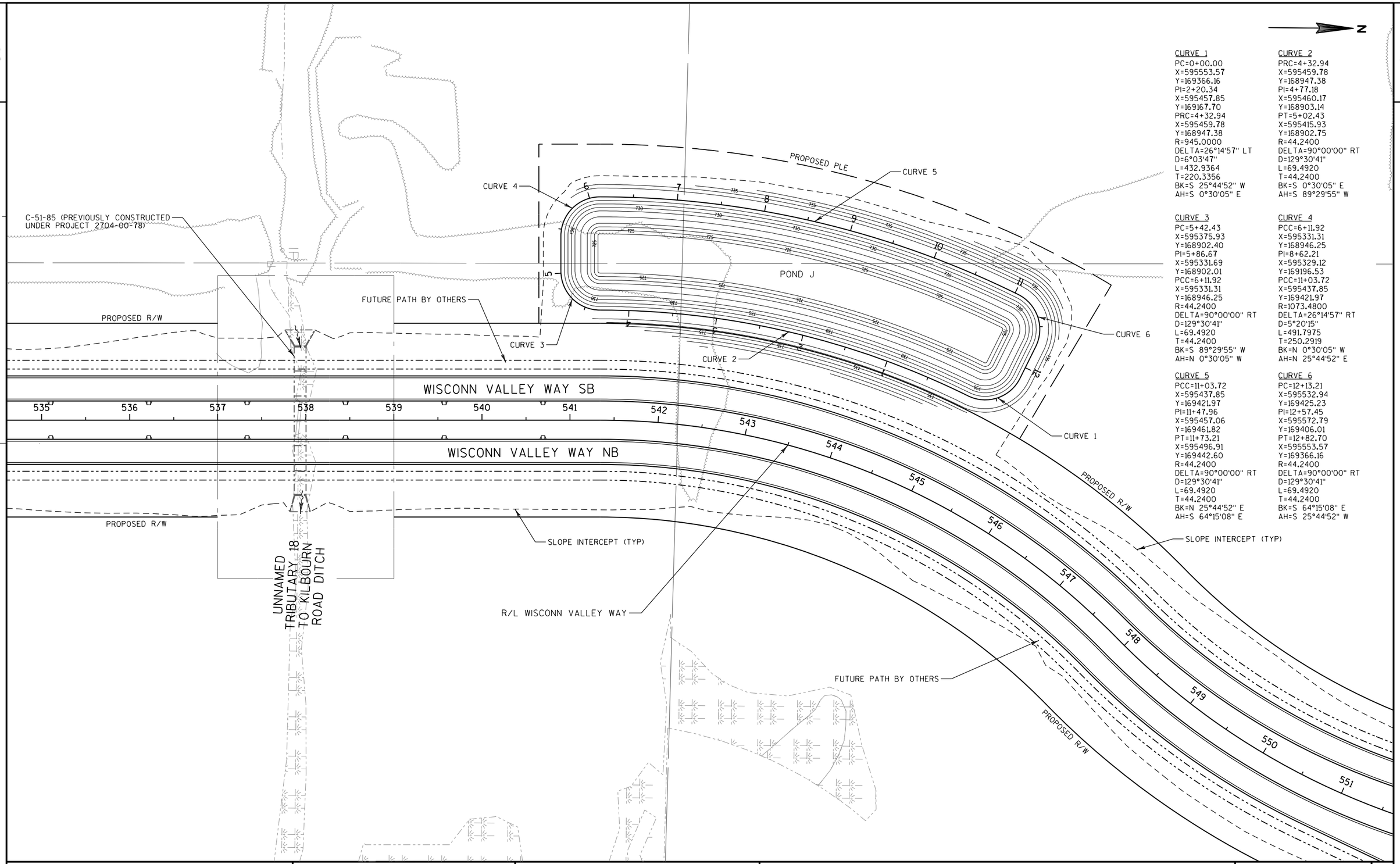
** COORDINATE WITH THE ENGINEER FOR THE LOCATION AND DEPTH OF CLAY LINER REQUIREMENT, IF SAND OR OTHER PERMEABLE SEAMS OR LAYERS ARE ENCOUNTERED DURING POND EXCAVATION, OR IF IN A FILL SECTION.



POND 1

NTS

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER POND 1 DETAILS	SHEET 176	E



CURVE 1
PC=0+00.00
X=595553.57
Y=169366.16
PI=2+20.34
X=595457.85
Y=169167.70
PRC=4+32.94
X=595459.78
Y=168947.38
R=945.0000
DELTA=26°14'57" LT
D=6°03'47"
L=432.9364
T=220.3356
BK=S 25°44'52" W
AH=S 0°30'05" E

CURVE 2
PRC=4+32.94
X=595459.78
Y=168947.38
PI=4+77.18
X=595460.17
Y=168903.14
PT=5+02.43
X=595415.93
Y=168902.75
R=44.2400
DELTA=90°00'00" RT
D=129°30'41"
L=69.4920
T=44.2400
BK=S 0°30'05" E
AH=S 89°29'55" W

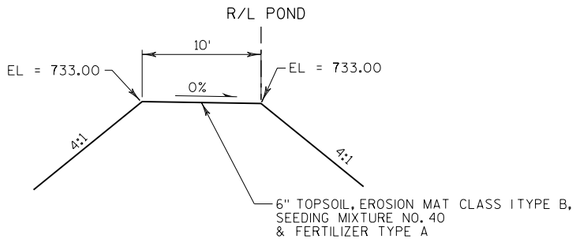
CURVE 3
PC=5+42.43
X=595375.93
Y=168902.40
PI=5+86.67
X=595331.69
Y=168902.01
PCC=6+11.92
X=595331.31
Y=168946.25
R=44.2400
DELTA=90°00'00" RT
D=129°30'41"
L=69.4920
T=44.2400
BK=S 89°29'55" W
AH=N 0°30'05" W

CURVE 4
PCC=6+11.92
X=595331.31
Y=168946.25
PI=8+62.21
X=595329.12
Y=169196.53
PCC=11+03.72
X=595437.85
Y=169421.97
R=1073.4800
DELTA=26°14'57" RT
D=5°20'15"
L=491.7975
T=250.2919
BK=N 0°30'05" W
AH=N 25°44'52" E

CURVE 5
PCC=11+03.72
X=595437.85
Y=169421.97
PI=11+47.96
X=595457.06
Y=169461.82
PT=11+73.21
X=595496.91
Y=169442.60
R=44.2400
DELTA=90°00'00" RT
D=129°30'41"
L=69.4920
T=44.2400
BK=N 25°44'52" E
AH=S 64°15'08" E

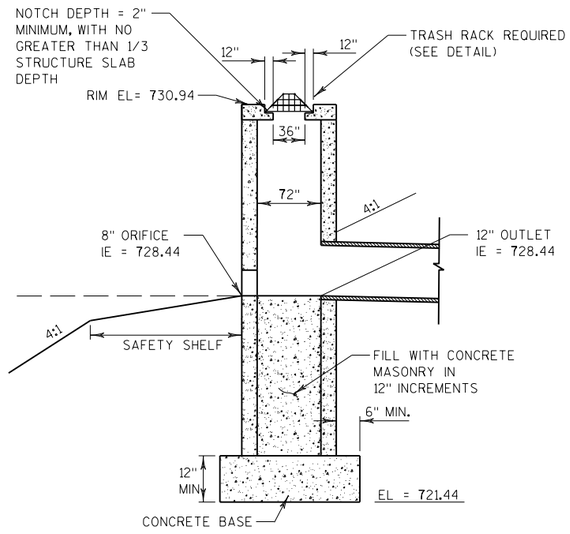
CURVE 6
PC=12+13.21
X=595532.94
Y=169425.23
PI=12+57.45
X=595572.79
Y=169406.01
PT=12+82.70
X=595553.57
Y=169366.16
R=44.2400
DELTA=90°00'00" RT
D=129°30'41"
L=69.4920
T=44.2400
BK=S 64°15'08" E
AH=S 25°44'52" W

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER POND OVERVIEW	SHEET 177	E



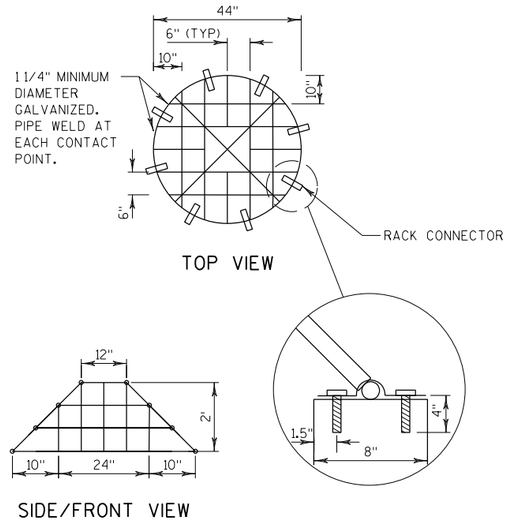
TYPICAL SECTION POND ACCESS ROAD

STA 0+00.00 TO STA 12+82.70



POND J OUTLET STORM SEWER STRUCTURE DETAIL

STRUCTURE 1271
MANHOLE 6-FT
NTS



TRASH RACK

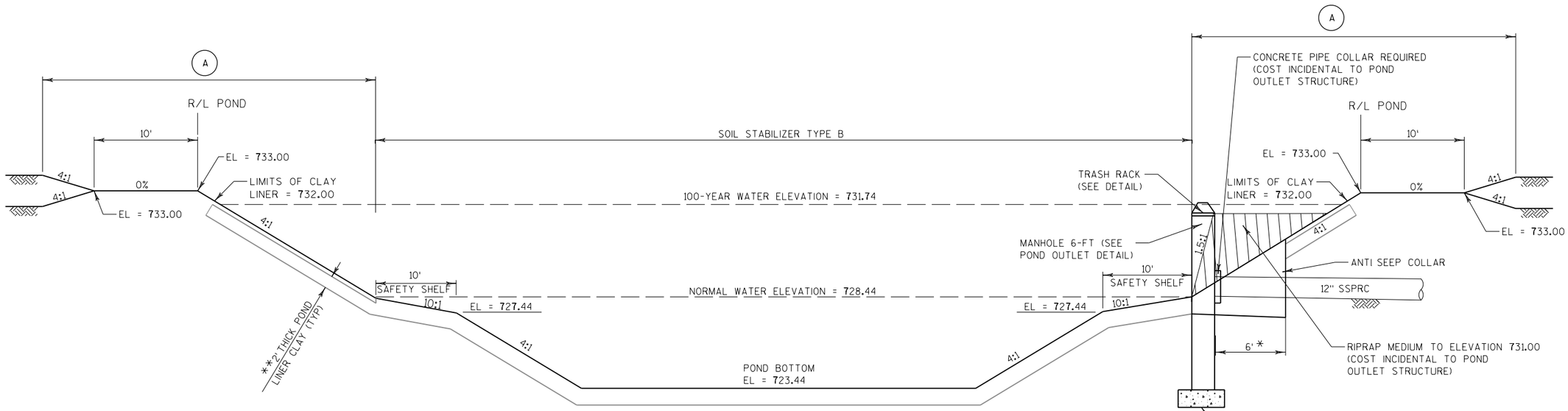
NTS

NOTES

1. REFER TO STANDARD DETAIL DRAWING FOR MANHOLE 6-FT FOR ADDITIONAL INFORMATION.
2. OUTLET STRUCTURE WILL BE PAID FOR AS POND J OUTLET STORM SEWER STRUCTURE.
3. TRASH RACKS WILL BE GALVANIZED OR SIMILARLY PROTECTED FROM CORROSION AND APPROVED BY THE ENGINEER.
4. CONNECTOR DEVICE WILL BE REMOVABLE AND APPROVED BY THE ENGINEER.
5. ANTI-SEEP COLLAR OF CLAY OR BENTONITE REQUIRED AROUND POND OUTLET DISCHARGE PIPE TO PREVENT BACKFLOW OF WATER THROUGH THE SEWER TRENCH. ANTI-SEEP COLLARS MUST EXTEND FROM 1-FOOT ABOVE THE TOP OF PIPE TO THE BOTTOM OF EXCAVATED TRENCH AND BE CONNECTED WITH THE POND LINER PER DETAIL. ANTI-SEEP COLLAR IS INCIDENTAL TO PIPE AND INSTALLATION.
6. RIPRAP PLACED ON TOP OF CLAY LINER NOT TO BE DUG IN.

* ANTI-SEEP COLLAR TO BE MINIMUM 1-FOOT FROM OUTLET PIPE JOINT. ANTI-SEEP COLLAR MAY COVER JOINT, SO LONG AS END OF COLLAR IS A MINIMUM 1-FOOT PAST JOINT. ANTI-SEEP COLLAR TO BE CONNECTED TO POND LINER.

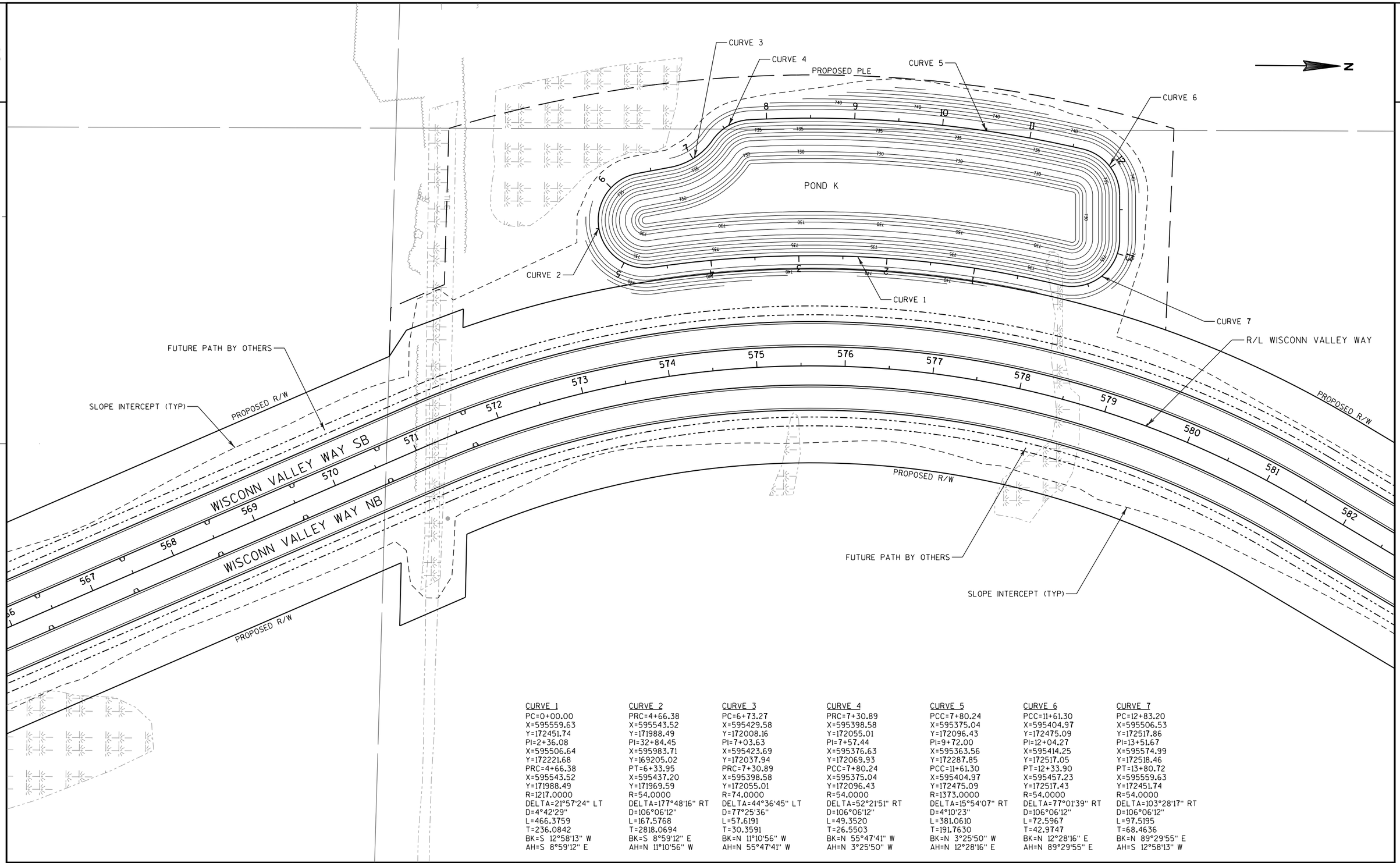
** COORDINATE WITH THE ENGINEER FOR THE LOCATION AND DEPTH OF CLAY LINER REQUIREMENT, IF SAND OR OTHER PERMEABLE SEAMS OR LAYERS ARE ENCOUNTERED DURING POND EXCAVATION, OR IF IN A FILL SECTION.



POND J

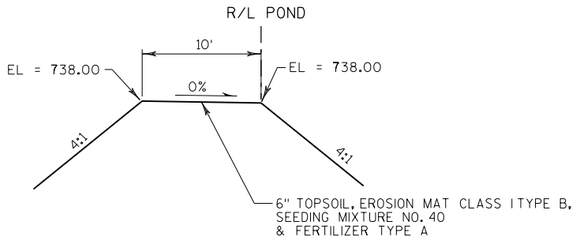
NTS

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER POND J DETAILS	SHEET 178	E



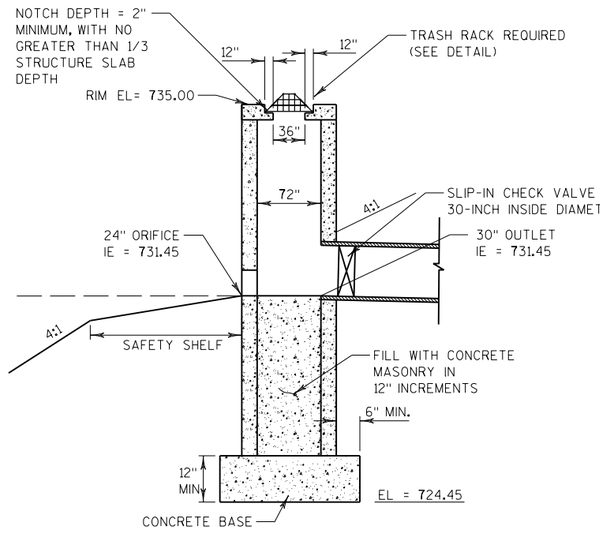
CURVE 1	CURVE 2	CURVE 3	CURVE 4	CURVE 5	CURVE 6	CURVE 7
PC=0+00.00	PRC=4+66.38	PC=6+73.27	PRC=7+30.89	PCC=7+80.24	PCC=11+61.30	PC=12+83.20
X=595559.63	X=595543.52	X=595429.58	X=595398.58	X=595375.04	X=595404.97	X=595506.53
Y=172451.74	Y=171988.49	Y=172008.16	Y=172055.01	Y=172096.43	Y=172475.09	Y=172517.86
PI=2+36.08	PI=32+84.45	PI=7+03.63	PI=7+57.44	PI=9+72.00	PI=12+04.27	PI=13+51.67
X=595506.64	X=595983.71	X=595423.69	X=595376.63	X=595363.56	X=595414.25	X=595574.99
Y=172221.68	Y=169205.02	Y=172037.94	Y=172069.93	Y=172287.85	Y=172517.05	Y=172518.46
PRC=4+66.38	PT=6+33.95	PRC=7+30.89	PCC=7+80.24	PCC=11+61.30	PT=12+33.90	PT=13+80.72
X=595543.52	X=595437.20	X=595398.58	X=595375.04	X=595404.97	X=595457.23	X=595559.63
Y=171988.49	Y=171969.59	Y=172055.01	Y=172096.43	Y=172475.09	Y=172517.43	Y=172451.74
R=1217.0000	R=54.0000	R=74.0000	R=54.0000	R=1373.0000	R=54.0000	R=54.0000
DELTA=21°57'24" LT	DELTA=177°48'16" RT	DELTA=44°36'45" LT	DELTA=52°21'51" RT	DELTA=15°54'07" RT	DELTA=77°01'39" RT	DELTA=103°28'17" RT
D=4°42'29"	D=106°06'12"	D=77°25'36"	D=106°06'12"	D=4°10'23"	D=106°06'12"	D=106°06'12"
L=466.3759	L=167.5768	L=57.6191	L=49.3520	L=381.0610	L=72.5967	L=97.5195
T=236.0842	T=2818.0694	T=30.3591	T=26.5503	T=191.7630	T=42.9747	T=68.4636
BK=S 12°58'13" W	BK=S 8°59'12" E	BK=N 11°10'56" W	BK=N 55°47'41" W	BK=N 3°25'50" W	BK=N 12°28'16" E	BK=N 89°29'55" E
AH=S 8°59'12" E	AH=N 11°10'56" W	AH=N 55°47'41" W	AH=N 3°25'50" W	AH=N 12°28'16" E	AH=N 89°29'55" E	AH=S 12°58'13" W

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER POND OVERVIEW	SHEET 179	E



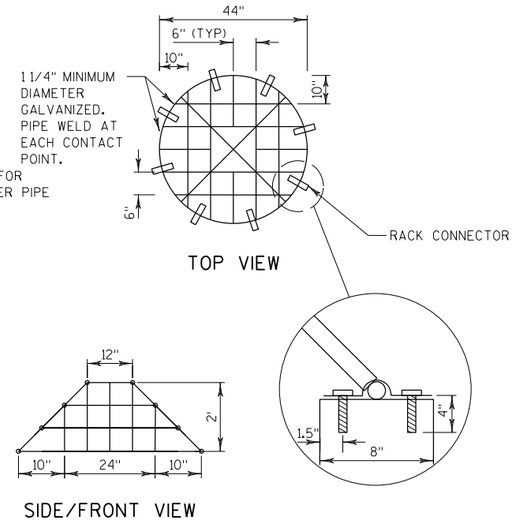
TYPICAL SECTION POND ACCESS ROAD

STA 0+00.00 TO STA 13+80.72



POND K OUTLET STORM SEWER STRUCTURE DETAIL

STRUCTURE 1711
MANHOLE 6-FT
NTS



TRASH RACK

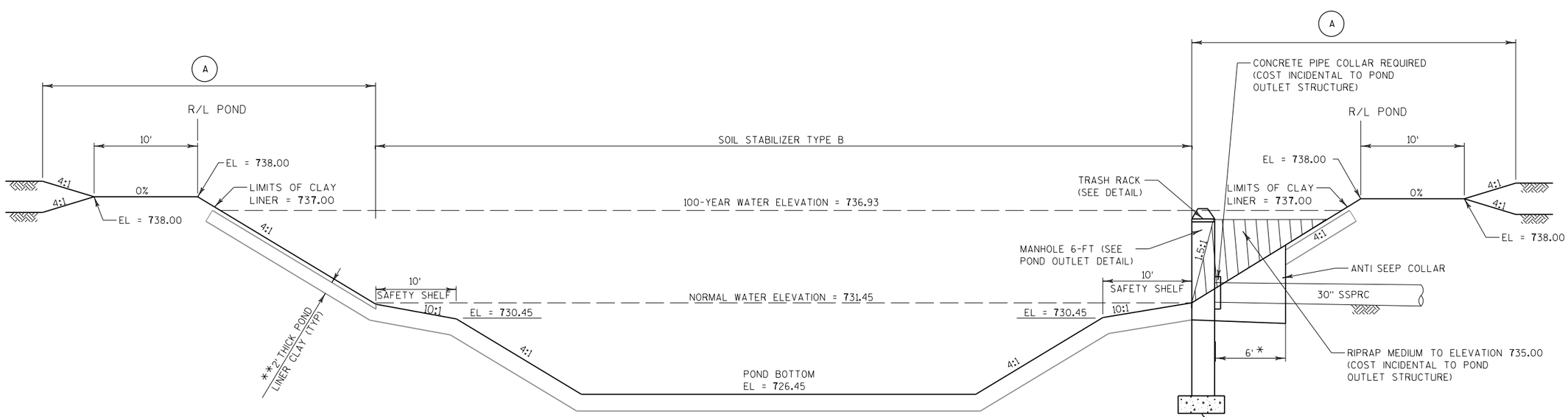
NTS

NOTES

1. REFER TO STANDARD DETAIL DRAWING FOR MANHOLE 6-FT FOR ADDITIONAL INFORMATION.
2. OUTLET STRUCTURE WILL BE PAID FOR AS POND K OUTLET STORM SEWER STRUCTURE.
3. TRASH RACKS WILL BE GALVANIZED OR SIMILARLY PROTECTED FROM CORROSION AND APPROVED BY THE ENGINEER.
4. CONNECTOR DEVICE WILL BE REMOVABLE AND APPROVED BY THE ENGINEER.
5. ANTI-SEEP COLLAR OF CLAY OR BENTONITE REQUIRED AROUND POND OUTLET DISCHARGE PIPE TO PREVENT BACKFLOW OF WATER THROUGH THE SEWER TRENCH. ANTI-SEEP COLLARS MUST EXTEND FROM 1-FOOT ABOVE THE TOP OF PIPE TO THE BOTTOM OF EXCAVATED TRENCH AND BE CONNECTED WITH THE POND LINER PER DETAIL. ANTI-SEEP COLLAR IS INCIDENTAL TO PIPE AND INSTALLATION.
6. RIPRAP PLACED ON TOP OF CLAY LINER NOT TO BE DUG IN.

* ANTI-SEEP COLLAR TO BE MINIMUM 1-FOOT FROM OUTLET PIPE JOINT. ANTI-SEEP COLLAR MAY COVER JOINT, SO LONG AS END OF COLLAR IS A MINIMUM 1-FOOT PAST JOINT. ANTI-SEEP COLLAR TO BE CONNECTED TO POND LINER.

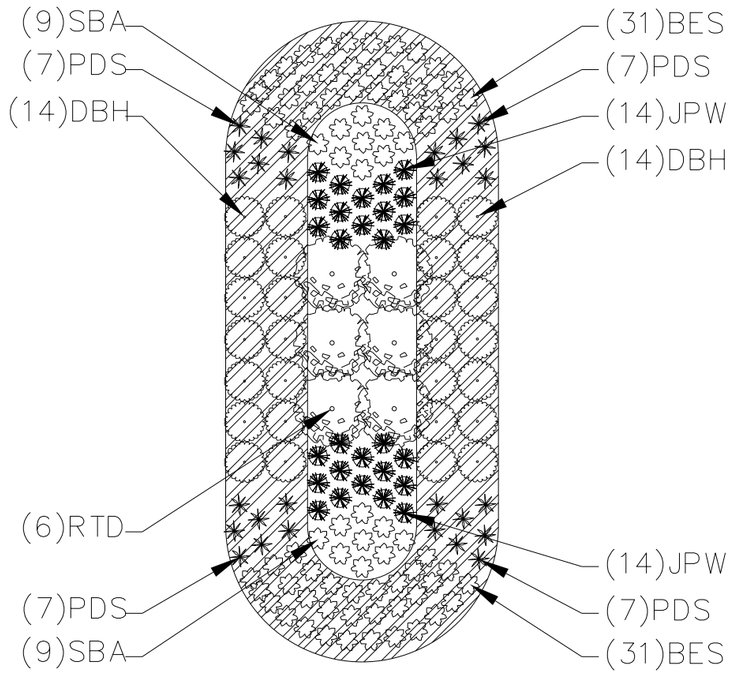
** COORDINATE WITH THE ENGINEER FOR THE LOCATION AND DEPTH OF CLAY LINER REQUIREMENT, IF SAND OR OTHER PERMEABLE SEAMS OR LAYERS ARE ENCOUNTERED DURING POND EXCAVATION, OR IF IN A FILL SECTION.



POND K

NTS

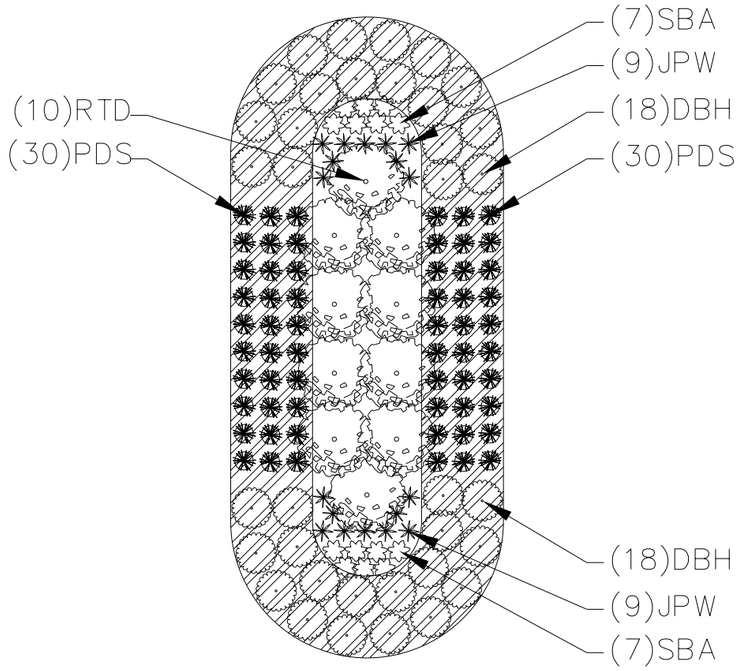
PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	STORM SEWER POND K DETAILS	SHEET 180	E



BIORETENTION CELL A:
PLANTING DESIGN

Bioretention A - Plant Schedule

	Scientific Name	Common Name	Quantity	Spacing	Install Size	Size
						Maturity in ft. (Height/Spread)
Deciduous Shrubs						
DBH	Diervilla lonicera	Dwarf Bush Honey-suckle	28	Per Plan	#3 cont.	3-4'/4-5'
RTD	Cornus sericea	Redtwig Dogwood	6	Per Plan	#3 cont.	7-9'/8-10'
Perennials						
BES	Rudbeckia fulgida	Black-eyed Susan	48	Per Plan	4.5" plugs	
JPW	Eupatorium maculatum	Spotted Joe-Pye Weed	15	Per Plan	4.5" plugs	
PDS	Sporobulus heterolepsis	Prairie Dropseed Grass	11	Per Plan	4.5" plugs	
SBA	Aster azureus	Sky Blue Aster	12	Per Plan	4.5" plugs	

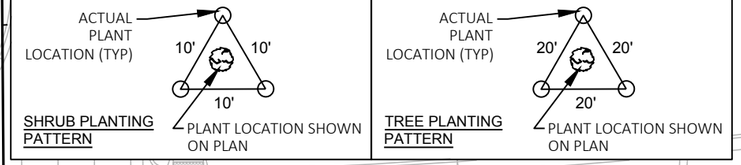


BIORETENTION CELL B:
PLANTING DESIGN

Bioretention B - Plant Schedule

	Scientific Name	Common Name	Quantity	Spacing	Install Size	Size
						Maturity in ft. (Height/Spread)
Deciduous Shrubs						
DBH	Diervilla lonicera	Dwarf Bush Honey-suckle	36	Per Plan	#3 cont.	3-4'/4-5'
RTD	Cornus sericea	Redtwig Dogwood	10	Per Plan	#3 cont.	7-9'/8-10'
Perennials						
JPW	Eupatorium maculatum	Spotted Joe-Pye Weed	18	Per Plan	4.5" plug	
PDS	Sporobulus heterolepsis	Prairie Dropseed Grass	60	Per Plan	4.5" plug	
SBA	Aster azureus	Sky Blue Aster	14	Per Plan	4.5" plug	

NOTES: EACH SHRUB OR TREE SYMBOL REPRESENTS A GROUP OF THREE SHRUBS OR TREES TO BE PLANTED AT THAT LOCATION IN ACCORDANCE WITH THE FOLLOWING LAYOUT:



RAMP NE R/L

RAMP NE

659NE 660NE 661NE 662NE 663NE 664NE 665NE

ZONE 2: MESIC PRAIRIE

ZONE 1: WET MESIC

ZONE 1: WET MESIC

728.75

1+00 2+00 3+00 4+00 5+00 6+00 7+00

NE POND R/L

CTH KR R/L
(FOR REFERENCE ONLY)

CTH KR WB

52 53 54 55 56

5659 5660 5661 5662 5663 5664 5665

EAST FRONTAGE RD

SLOPE INTERCEPT (TYP.)

EAST FRONTAGE RD R/L
(FOR REFERENCE ONLY)

SEEDING SPECIAL,
SEED BED PREPARATION,
TOPSOIL SPECIAL, SEED MIX SPECIAL,
MULCHING SPECIAL

PLANTING LEGEND

SHRUBS

- RED-OSIER DOGWOOD (*Cornus sericea*)
- GREY DOGWOOD (*Cornus racemosa*)
- EASTERN WHITE CEDAR *(Thuja occidentalis)*

TREES

- QUAKING ASPEN (*Populus tremuloides*)
- SWAMP WHITE OAK (*Quercus bicolor)*
- RED MAPLE (*Acer rubrum*)

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLANTING: POND NE	SHEET 183	E

FILE NAME : J:\ACTIVE\SE\1030-20-15 RACINE PACKAGE B\C3D\10302015\SHEETSPLAN\1035-03-01 CTH KR INTERCHANGE\NE POND\023101-PL.DWG
LAYOUT NAME - 01
PLOT DATE : 1/28/2019 9:42 AM PLOT BY : CORY IHDE PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2

2

N

EAST FRONTAGE ROAD

REMOVE
R002

54BRW 56BRW 58BRW 60BRW 62BRW 64BRW

BRAUN ROAD

50BRE 52BRE 54BRE 56BRE 58BRE 60BRE 62BRE 64BRE

MATCHLINE A 65BRE+00

Eqn54+36.47
Eqn54+36.41

SPEED LIMIT 45
REMOVE
R001

POST

OMP

LEGEND

EXISTING SIGN MOUNTED ON POST

XXXX DENOTES SIGN NUMBER

PROJECT NO:2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY:RACINE	SIGNING REMOVALS	SHEET 184	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\Plots\WCVW_Plots.dgn 12 Dec 2018 2:13:08 PM PLOT BY : jdepies PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

N

MATCHLINE A 65BRE+00

66BRW 68BRW 70BRW 72BRW 74BRW 76BRW 78BRW 80BRW

BRAUN ROAD

66BRE 68BRE 70BRE 72BRE 74BRE 76BRE 78BRE 80BRE

SPEED LIMIT 45
REMOVE
R003

SPEED LIMIT 45
REMOVE
R004

LEGEND

EXISTING SIGN MOUNTED ON POST

XXXX DENOTES SIGN NUMBER

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	SIGNING REMOVALS	SHEET 185	E

2

2

ON STRUCTURE S-51-611

P005 6'x 7' TYPE I SIGN — SOUTH East Frontage Rd ONLY

P006 6'x 7' TYPE I SIGN — SOUTH West Frontage Rd ONLY

P007 4'x 5' TYPE I SIGN — Braun Rd ONLY

P008 6'x 7' TYPE I SIGN — NORTH West Frontage Rd ONLY

P009 6'x 7' TYPE I SIGN — NORTH East Frontage Rd ONLY

N

IH-94 EB/SB

IH-94 WB/NB

EAST FRONTAGE ROAD

P001 BEGIN LEFT TURN LANE R3-20LL 24" X 36"

P012 BEGIN LEFT TURN LANE R3-20L 24" X 36"

P013 P014 W3-3 36" X 36"

R/L BRAUN ROAD WB

54BRW 56BRW 58BRW 60BRW 62BRW 64BRW

BRAUN ROAD

50BRE 52BRE 54BRE 56BRE 58BRE 60BRE 62BRE 64BRE

MATCHLINE A 65BRE+00

P002 ONLY R3-5L 42" X 48"

Braun Rd 3' x 3.5' TYPE II SIGN P003

P004 ONLY R3-5R 42" X 48"

ON IH-94 NB BRIDGE

SPEED LIMIT 35 R2-1 24" X 30" P010 P011

R/L BRAUN ROAD EB

P015 P016 W3-3 36" X 36"

BEGIN LEFT TURN LANE R3-20L 24" X 36" P017

EAST FRONTAGE ROAD

LEGEND

PROPOSED SIGN MOUNTED ON POST

PROPOSED SIGN STRUCTURE

PXXX PROPOSED SIGN NUMBER

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PERMANENT SIGNING	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PLOT DWGS\2011p2_27.dgn 8/27/2018 3:45:56 PM PLOT BY : jdepies PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

R/L WISCONN VALLEY WAY

P023 MOUNTED ON SIGNAL POLE
R6-1 36" X 12"

Wisconn Valley Way
P055 M1-94H MOUNTED ON MAST ARM

P022 MOUNTED ON SIGNAL POLE
R4-7 24" X 30"

P020 P021 MOUNTED ON SIGNAL POLE
R1-1-F 36" X 36"

P018 P019
R2-1 24" X 30"

P024
W12-1-D 24" X 24" 2' MOUNTING HEIGHT

P025 MOUNTED ON SIGNAL POLE
R1-1-F 36" X 36"

P026
R1-2 36" X 31"

P034 P035 MOUNTED ON SIGNAL POLE
R1-1-F 36" X 36"

P036 MOUNTED ON SIGNAL POLE
R4-7 24" X 30"

Braun Rd
P058 M1-94H MOUNTED ON MAST ARM

P037 MOUNTED ON SIGNAL POLE
R6-1 36" X 12"

P038
R1-2 36" X 31"

P039 MOUNTED ON SIGNAL POLE
R1-1-F 36" X 36"

P040
W12-1-D 24" X 24" 2' MOUNTING HEIGHT

P041 P042 P043 MOUNTED ON SIGNAL POLE
R5-1 30" X 30"

P043a MOUNTED ON SIGNAL POLE
R10-50 30" X 36"

P044 P045 MOUNTED ON SIGNAL POLE
R1-1-F 36" X 36"

R/L BRAUN ROAD WB

BRAUN ROAD

R/L BRAUN ROAD EB

MATCHLINE A 65BRE+00

66BRW 68BRW 70BRW 72BRW 74BRW 76BRW 78BRW 80BRW

66BRE 68BRE 70BRE 72BRE 74BRE 76BRE 78BRE 80BRE

561 560 559 558 557 556 555 554 553 552

P046 P047 MOUNTED ON SIGNAL POLE
R10-11B 24" X 24"

P048 MOUNTED ON SIGNAL POLE
R4-7 24" X 30"

Wisconn Valley Way
P056 M1-94H MOUNTED ON MAST ARM

P049 MOUNTED ON SIGNAL POLE
R6-1 36" X 12"

P050 P051 P052 MOUNTED ON SIGNAL POLE
R1-1-F 36" X 36"

P053
W12-1-D 24" X 24" 2' MOUNTING HEIGHT

P054 MOUNTED ON SIGNAL POLE
R5-1 30" X 30"

P027
R3-20LL 24" X 36"
BEGIN LEFT TURN LANE

P028
W12-1-D 24" X 24" 2' MOUNTING HEIGHT

P030 MOUNTED ON SIGNAL POLE
R1-1-F 36" X 36"

P029
R1-2 36" X 31"

P031 MOUNTED ON SIGNAL POLE
R6-1 36" X 12"

Braun Rd
P057 M1-94H MOUNTED ON MAST ARM

P032 MOUNTED ON SIGNAL POLE
R4-7 24" X 30"

P033 MOUNTED ON SIGNAL POLE
R1-1-F 36" X 36"

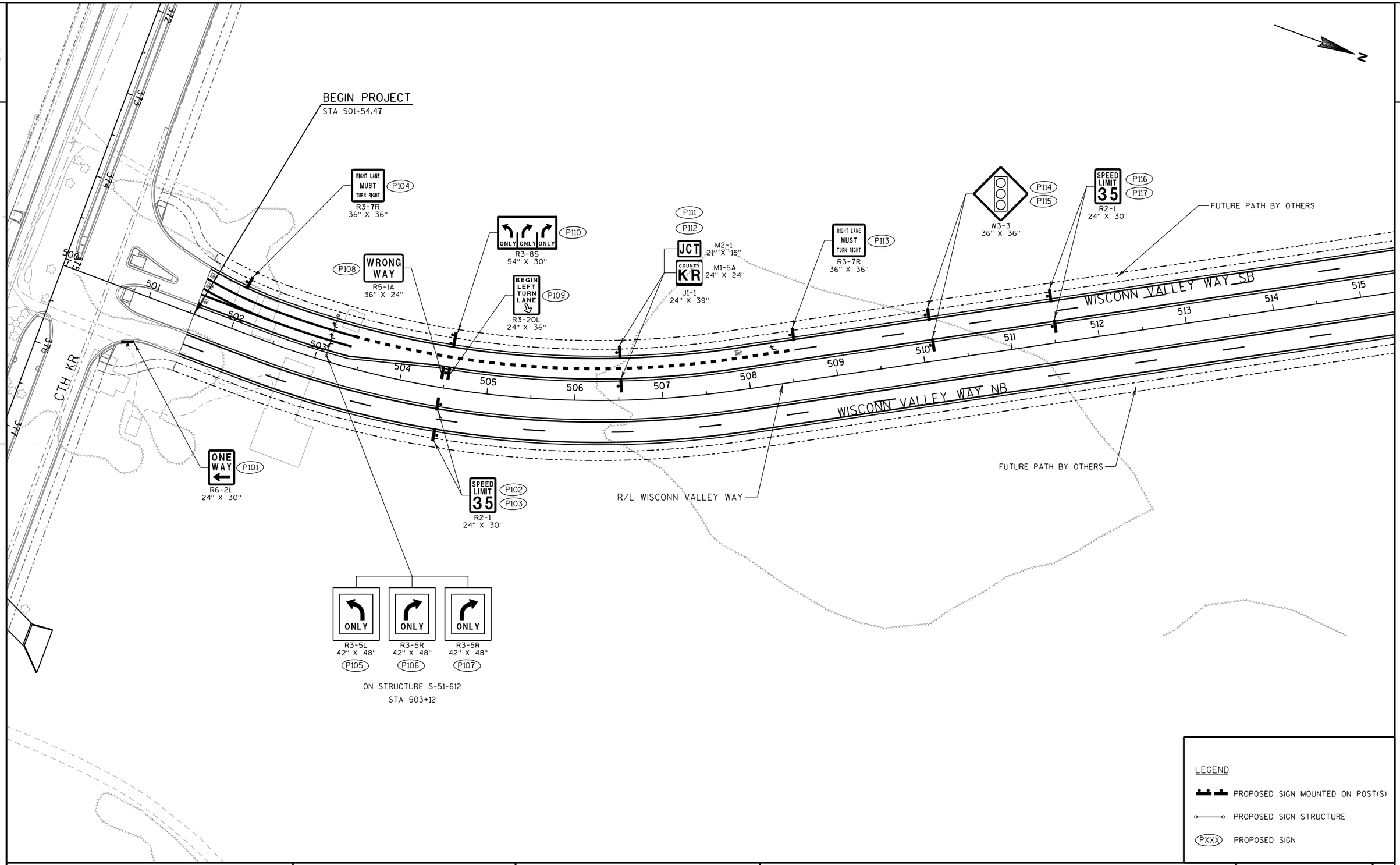
N

LEGEND

PROPOSED SIGN MOUNTED ON POST

PXXX PROPOSED SIGN NUMBER

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PERMANENT SIGNING	SHEET 187	E



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PERMANENT SIGNING	SHEET 188	E

2

N

FUTURE PATH BY OTHERS

R/L WISCONN VALLEY WAY

P203 P204 SPEED LIMIT 35
R2-1
24" X 30"

WISCONN VALLEY WAY SB

515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530

WISCONN VALLEY WAY NB

SPEED LIMIT 35 P201 P202
R2-1
24" X 30"

FUTURE PATH BY OTHERS

LEGEND

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN STRUCTURE

(PXXX) PROPOSED SIGN

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PERMANENT SIGNING	SHEET 189	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\023202_PS.dgn PLOT DATE : 12/19/2018 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

2

N

R/L WISCONN VALLEY WAY

FUTURE PATH BY OTHERS

UNNAMED TRIBUTARY 18 TO KILBOURN ROAD DITCH

C-51-85 (PREVIOUSLY CONSTRUCTED UNDER PROJECT 2704-00-78)

SPEED LIMIT 35 (P303) (P304)
R2-1
24" X 30"

WISCONN VALLEY WAY SB

WISCONN VALLEY WAY NB

530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545

SPEED LIMIT 35 (P301) (P302)
R2-1
24" X 30"

FUTURE PATH BY OTHERS

LEGEND

PROPOSED SIGN MOUNTED ON POST(S)

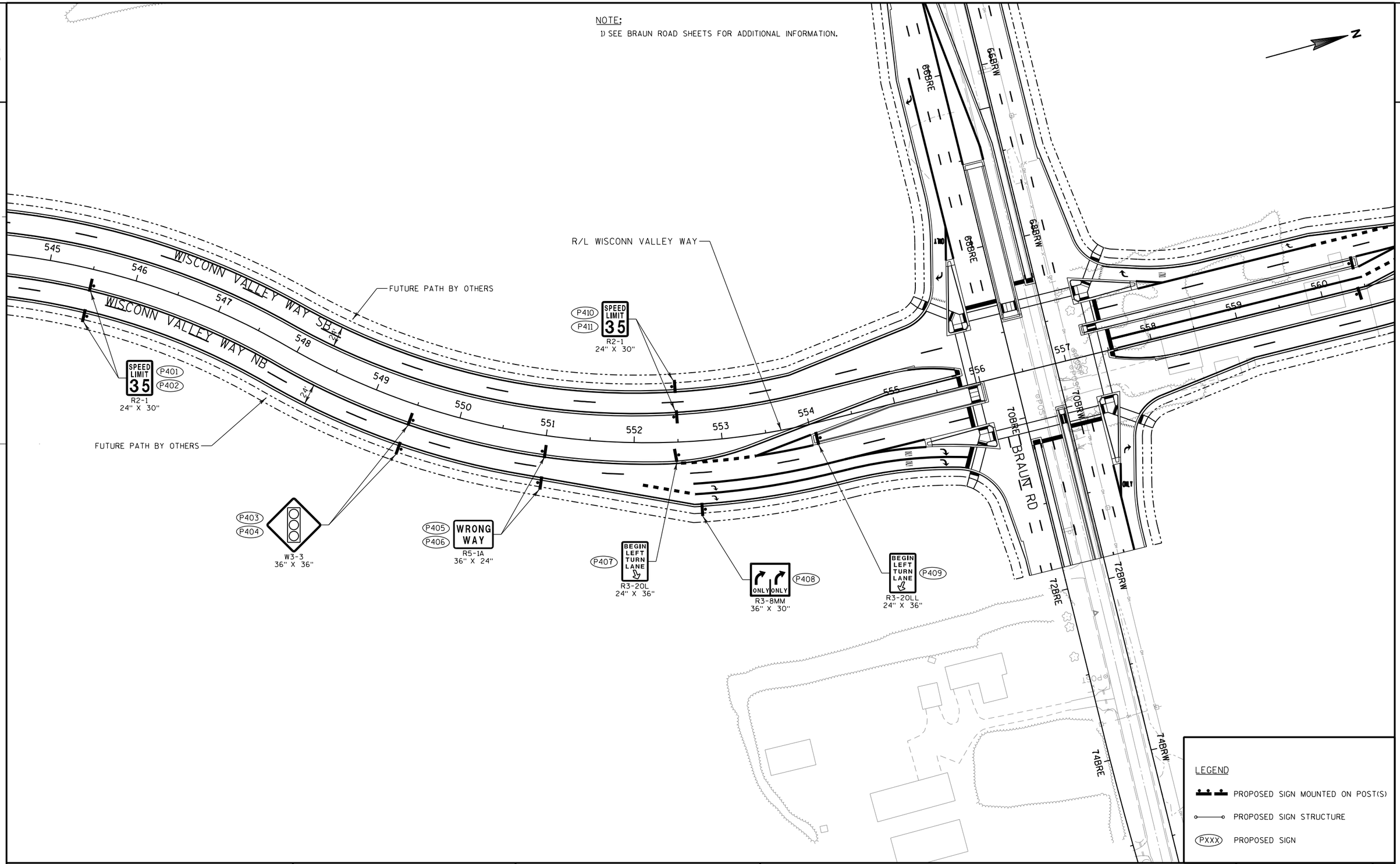
PROPOSED SIGN STRUCTURE

(PXXX) PROPOSED SIGN

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PERMANENT SIGNING	SHEET 190	E

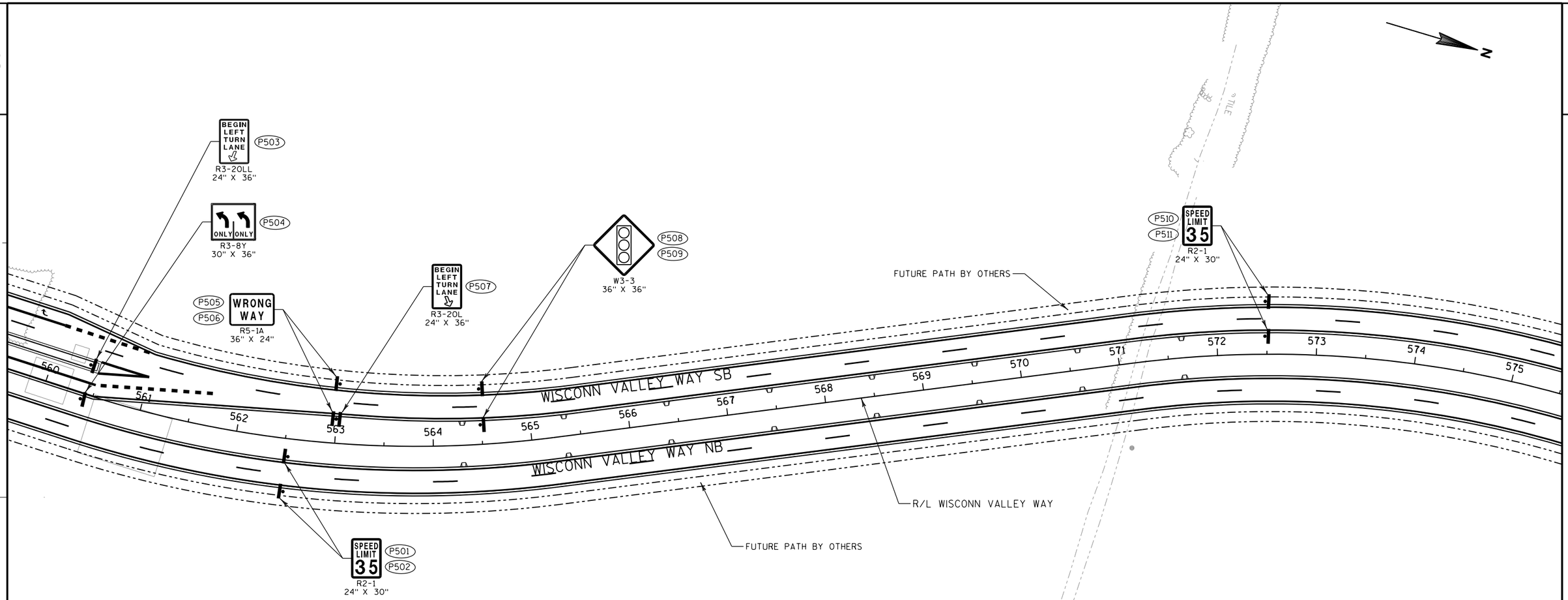
FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\023203_PS.dgn PLOT DATE : 12/19/2018 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:100

NOTE:
1) SEE BRAUN ROAD SHEETS FOR ADDITIONAL INFORMATION.



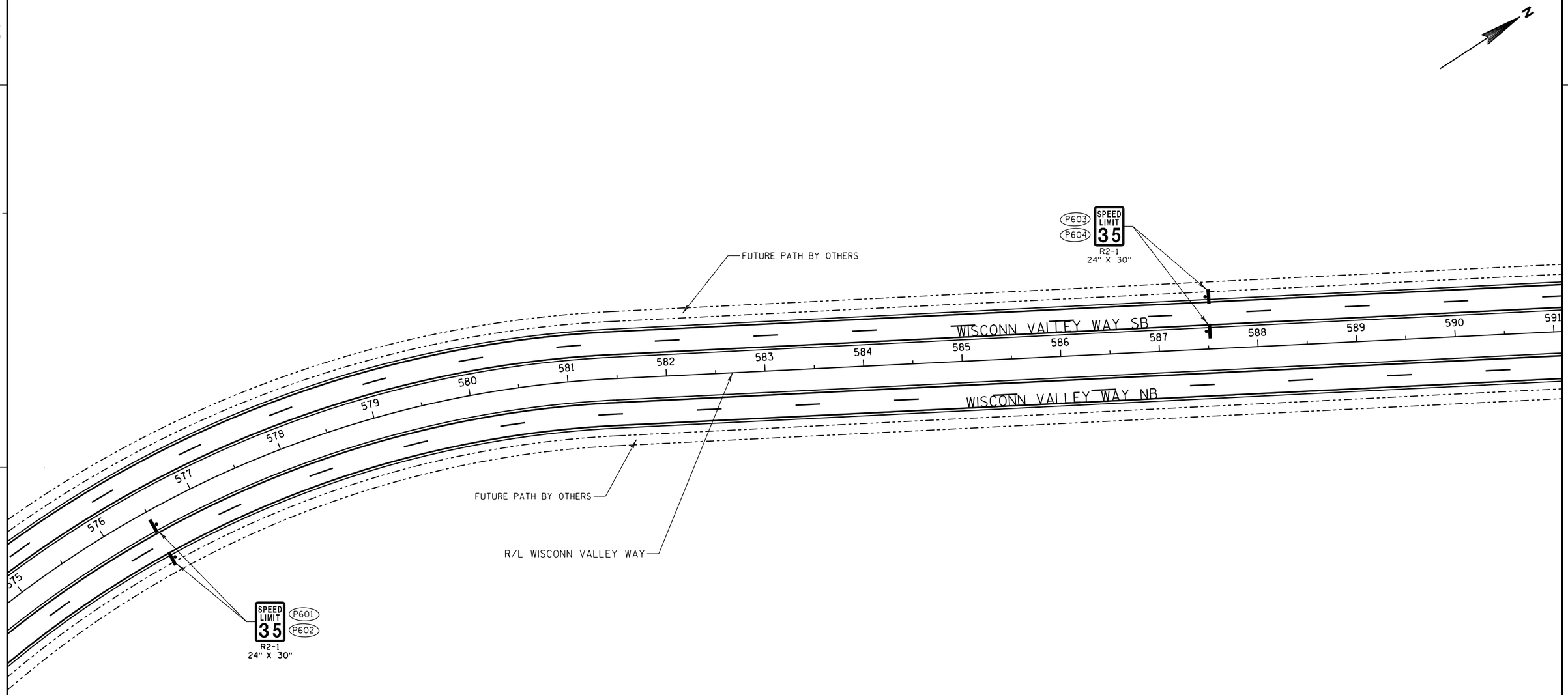
PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PERMANENT SIGNING	SHEET 191	E

2



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PERMANENT SIGNING	SHEET 192	E

2



LEGEND

- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN STRUCTURE
- (PXXX) PROPOSED SIGN

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PERMANENT SIGNING	SHEET 193	E

2

N

STH 11

155

156

157

@MH

@MH

@POST

END PROJECT
STA 605+29.12

591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606

R/L WISCONN VALLEY WAY

FUTURE PATH BY OTHERS

WISCONN VALLEY WAY SB

WISCONN VALLEY WAY NB

P715
P716
SPEED LIMIT 35
R2-1
24" X 30"

P701
P702
SPEED LIMIT 35
R2-1
24" X 30"

FUTURE PATH BY OTHERS

P703
P704
W3-3
36" X 36"

P705
RIGHT LANE MUST TURN RIGHT
R3-7R
36" X 36"

P706
P707
JCT
11
M2-1
21" X 15"
M1-6
24" X 24"
J1-1
24" X 39"

P708
P709
ONLY ONLY ONLY
R3-8R
54" X 30"

WRONG WAY
P710
R5-1A
36" X 24"

RIGHT LANE MUST TURN RIGHT
P714
R3-7R
36" X 36"

ONLY
R3-5L
42" X 48"
P711

ONLY
R3-5L
42" X 48"
P712

ONLY
R3-5R
42" X 48"
P713

ON STRUCTURE S-51-613
STA 603+57

LEGEND

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN STRUCTURE

(PXXX) PROPOSED SIGN

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PERMANENT SIGNING	SHEET 194	E

2

GENERAL NOTES

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

THE CONTRACTOR IS RESPONSIBLE FOR NOT BACKFEEDING CIRCUITS PRIOR TO DISCONNECTING ANY BRANCH CIRCUITS FROM OLD SOURCE.

LOCATIONS OF THE PVC CONDUITS ARE IDENTIFIED IN THE PLANS WHERE THEY ARE REQUIRED. APPROPRIATE ADJUSTMENT ON CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. FIELD MARK EACH CONDUIT LOCATION IN RED.

ALL CONDUITS SHALL BE CAPPED OR PLUGGED WITH ENGINEER APPROVED FITTINGS IMMEDIATELY AFTER INSTALLATION. THE TRENCH SHALL NOT BE BACK FILLED PRIOR TO INSPECTION OF THE CONDUIT.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR IMMERSION 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 ALL CONDUITS.

PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND BE CAPPED WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGGLY ON THE CONDUIT, BUT EASILY REMOVED IN THE FUTURE. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.

CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX-TO-PULL BOX OR JUNCTION BOX OR BASE-TO-BASE, ETC.) UNLESS OTHERWISE NOTED ON PLANS.

PULL ROPE (3/8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUITS.

CONTRACTOR SHALL SUPPLY AS-BUILT DRAWING FOR ALL THE WORK BEING DONE.

INSTALLATION OF LATERAL UNDERGROUND CONDUIT UNDER PAVEMENT SHALL BE INSTALLED MINIMUM 30 INCHES BELOW PROPOSED GRADE AND A MINIMUM OF 3 INCHES BELOW ALL PAVEMENT BASE MATERIALS. CONDUIT LATERALS SHALL BE TRENCHED UNDER PAVEMENT BEFORE PAVEMENT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ROADWAY CONSTRUCTION FOR CONDUIT LATERALS INSTALLATION.

PITCH ALL CONDUITS TOWARD PULL BOXES. INSTALL A 2" DRAIN DUCT TO STORM SEWER OR DRAIN SUMP AS REQUIRED FOR DRAINAGE. THE 2" DRAIN DUCT OR SUMP IS INCIDENTAL TO THE PULL BOX BID ITEM AND IS NOT SHOWN.

THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE, IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

HAND DIGGING MAY BE REQUIRED FOR LOCATIONS ADJACENT TO EXISTING GAS AND POWER LINES. HAND EXCAVATION SHOULD BE ANTICIPATED & WILL BE CONSIDERED INCIDENTAL TO THE CONCRETE BASES BID ITEM. COORDINATE ALL WORK NEAR GAS LINE WITH WE ENERGIES.

EXISTING CONDUIT AND CID NO LONGER BEING USED IS ABANDONED IN PLACE. THE CONTRACTOR MAY REMOVE ABANDONED WIRING AT THE CONTRACTOR'S EXPENSE. ABANDONED PULL BOX REMOVAL IS INCIDENTAL TO THE ROAD CONSTRUCTION.

IF CID CONTAINS PHASE CONDUCTOR(S) THAT WILL NOT BE USED FOR SUBSEQUENT POLES, I.E. AT THE END OF A CIRCUIT, DO NOT ENERGIZE THE RESPECTIVE CONDUCTOR(S) PAST THE LAST POLE THE PHASE WAS UTILIZED. REMOVE UNUSED CONDUCTOR(S) EXPOSED BEYOND THE CID RACEWAY IN ALL SUBSEQUENT POLES.

SEAL THE ENDS OF ALL CID RACEWAY WITH A UL RECOGNIZED FOAM CONDUIT SEALANT. PROVIDE A 1/2" NYLON ROPE EXTENDING BEYOND THE PLUG TO ASSIST IN REMOVING THE PLUG IN THE FUTURE.

SEE DETAIL "CONDUIT DETAILS AT STRUCTURE PARAPET TO ROADWAY BARRIER INTERFACE" WHEN CONDUIT EXITS TO GRADE FROM A BRIDGE PARAPET OR RETAINING WALL. RIGID METALLIC CONDUIT IN THE CONCRETE BARRIER IS INCIDENTAL TO THE RIGID NONMETALLIC CONDUIT.

PROVIDE MINIMUM CABLE SLACK AS NOTED BELOW:

PULL BOXES:	10-FT	LIGHTING CONTROL CENTERS:	10-FT
EMBEDDED JUNCTION BOXES:	3-FT	POLES:	5-FT IN AND 5-FT OUT

SIGN STRUCTURES WHICH HAVE A BASE THAT EXTENDS THE COMPLETE WIDTH OF THE MEDIAN TYPICALLY HAVE A 4" SLEEVE FOR LIGHTING.

WIRE AND CONDUIT IS LISTED IN THE MISCELLANEOUS QUANTITIES BASED UPON THE EARLIEST STAGE SHOWN. CONTRACTOR MAY INSTALL LATER WHEN LOAD NEEDS TO BE ENERGIZED.

LEGEND - FINAL LIGHTING

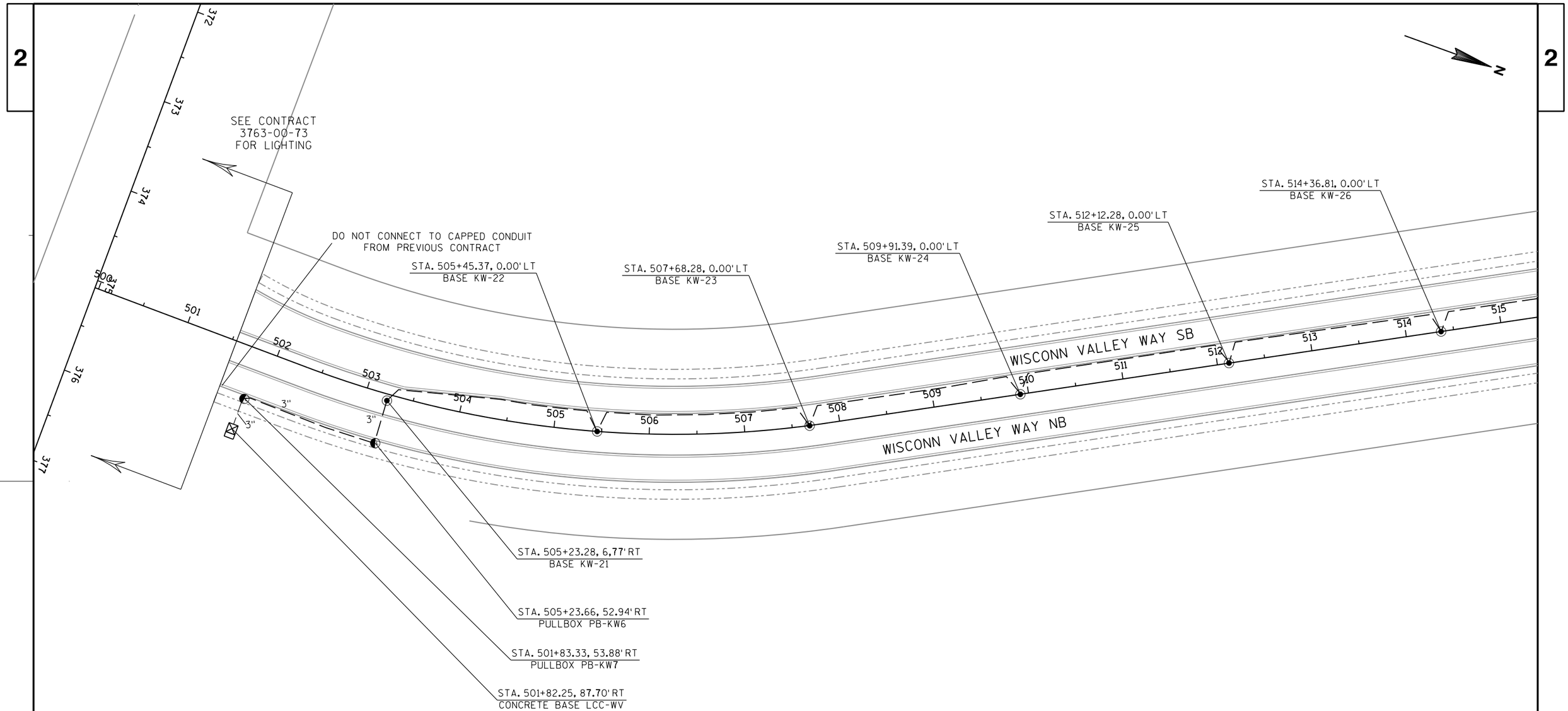
·—·—·	CID (CABLE IN DUCT)		ELECTRIC METER SOCKET
– – – –	CABLE IN CONDUIT - 2" UNLESS NOTED OTHERWISE	SM	DENOTES STRUCTURE MOUNTED
⊠	LIGHTING CONTROL CABINET	C	CONDUIT
◐	PULL BOX 24" x 36"	⌐—	STUBOUT
⊗	PULL BOX 24" x 42"	◉	CONCRETE POLE BASE, TYPE 5, WITH TRANSFORMER BASE

2

NOTES

NO POLES, ARMS, LUMINAIRES, LIGHTING CONTROL CABINETS, NOR WIRING ARE PROVIDED UNDER THIS CONTRACT.

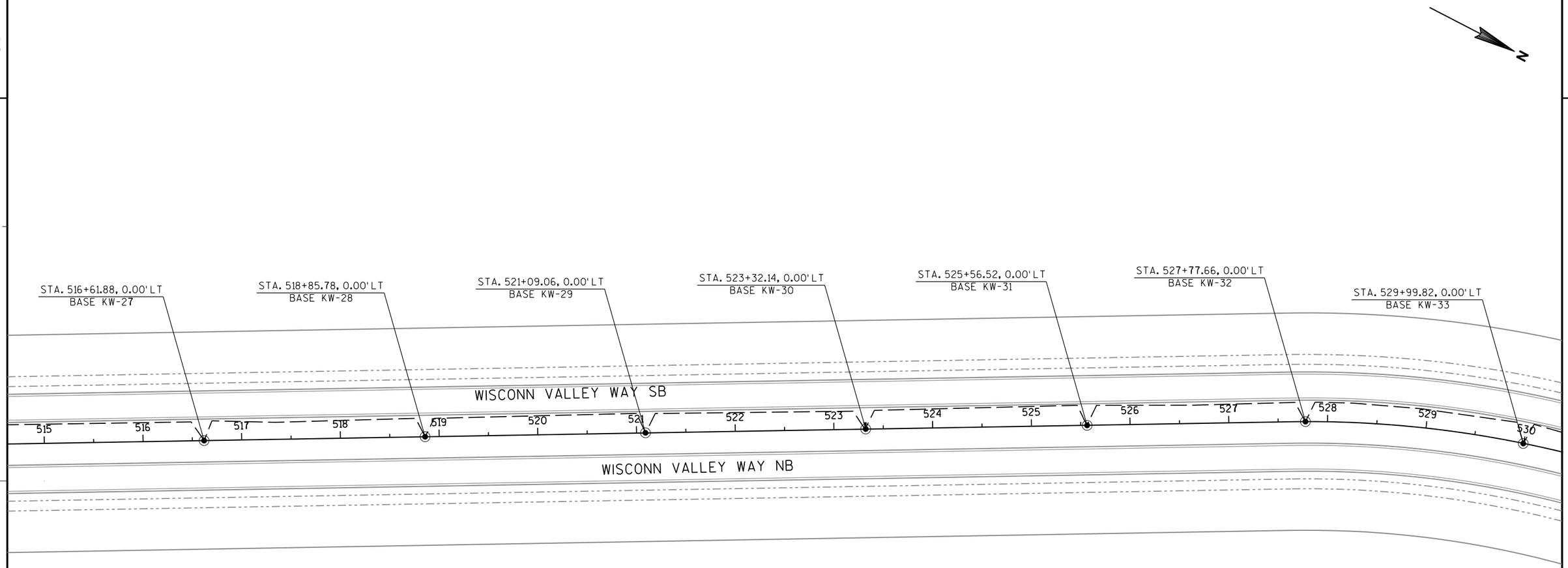
CONCRETE BASES FOR FUTURE POLES AND LIGHTING CONTROL CABINETS WITH ASSOCIATED CONDUITS (PULL ROPE ONLY) ARE PROVIDED HEREIN.



NOTES
1. ALL CONDUITS ARE EMPTY EXCEPT FOR PULL ROPE.
2. ALL CONDUITS ARE 2" SCHEDULE 40 NON METALLIC UNLESS SIZE IS SHOWN OTHERWISE

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	LIGHTING PLAN	SHEET 196	E

2



NOTES
1. ALL CONDUITS ARE EMPTY EXCEPT FOR PULL ROPE.
2. ALL CONDUITS ARE 2" SCHEDULE 40 NON METALLIC UNLESS SIZE IS SHOWN OTHERWISE

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	LIGHTING PLAN	SHEET 197	E

2

N

STA. 529+99.82, 0.00'LT
BASE KW-33

STA. 532+22.04, 0.00'LT
BASE KW-34

STA. 534+43.64, 0.00'LT
BASE BW-16

STA. 536+66.20, 0.00'LT
BASE BW-15

STA. 538+89.55, 0.00'LT
BASE BW-14

STA. 541+13.88, 0.00'LT
BASE BW-13

STA. 543+24.52, 0.00'LT
BASE BW-12

WISCONN VALLEY WAY SB

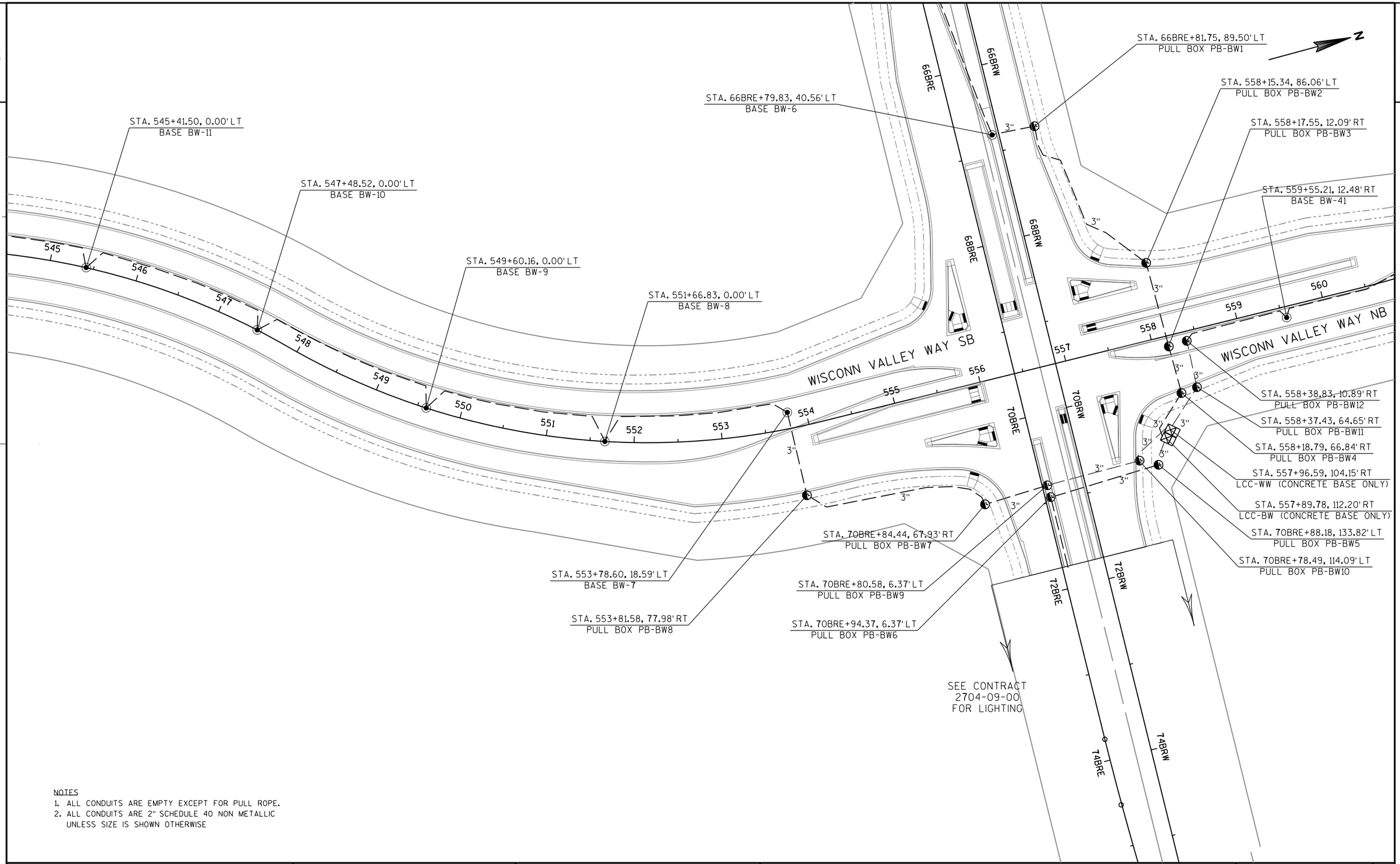
530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545

WISCONN VALLEY WAY NB

STA. 545+41.50, 0.00'LT
BASE BW-11

NOTES
1. ALL CONDUITS ARE EMPTY EXCEPT FOR PULL ROPE.
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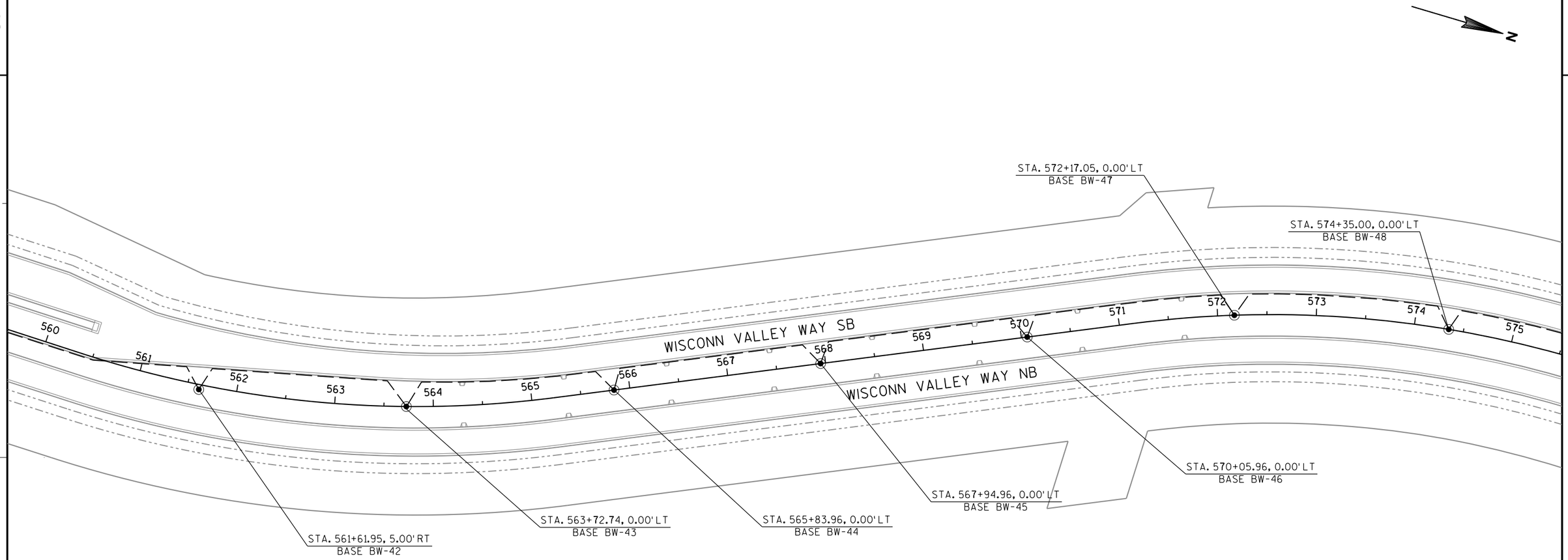
PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	LIGHTING PLAN	SHEET 198	E



NOTES
1. ALL CONDUITS ARE EMPTY EXCEPT FOR PULL ROPE.
2. ALL CONDUITS ARE 2" SCHEDULE 40 NON METALLIC UNLESS SIZE IS SHOWN OTHERWISE

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	LIGHTING PLAN	SHEET 199	E

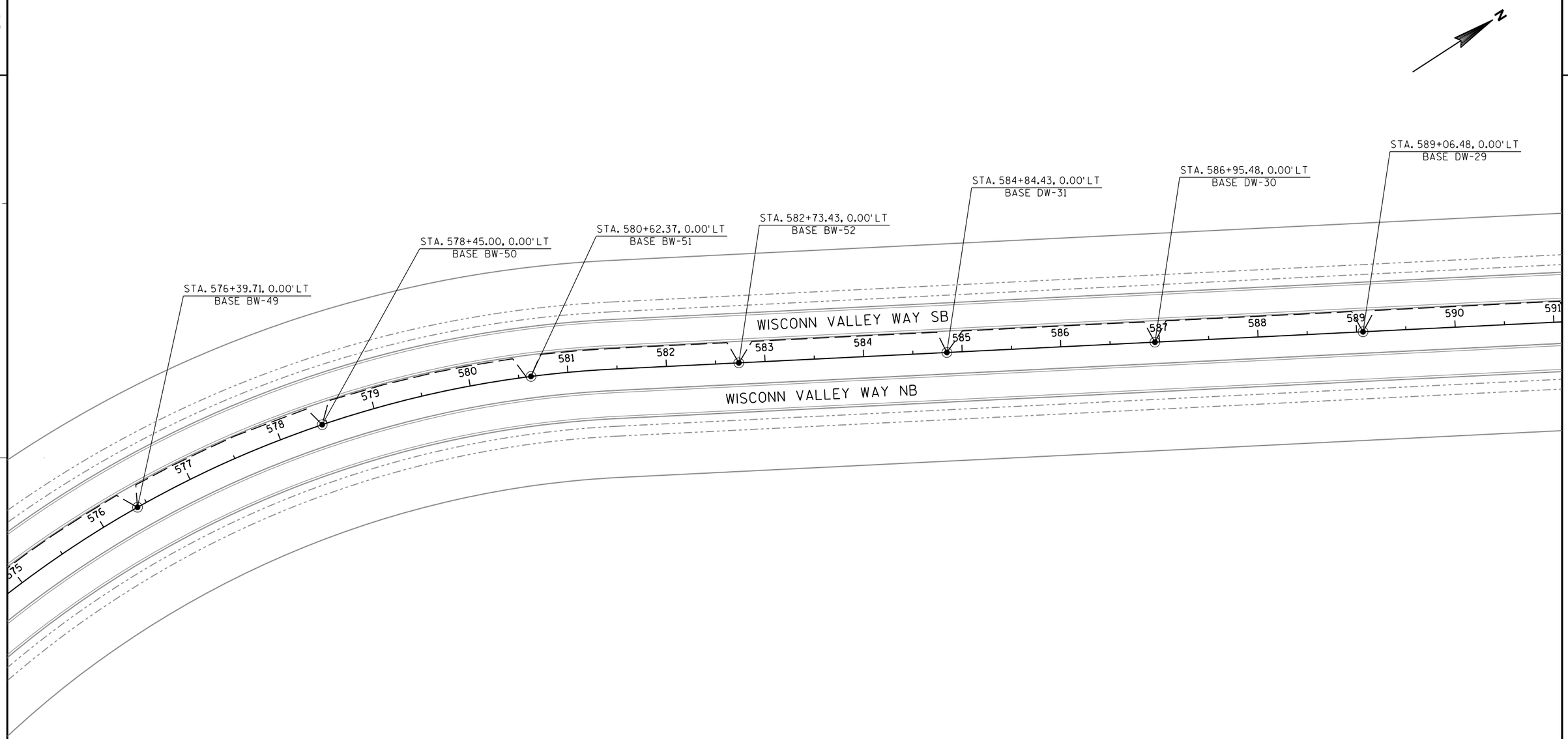
2



NOTES
1. ALL CONDUITS ARE EMPTY EXCEPT FOR PULL ROPE.
2. ALL CONDUITS ARE 2" SCHEDULE 40 NON METALLIC UNLESS SIZE IS SHOWN OTHERWISE

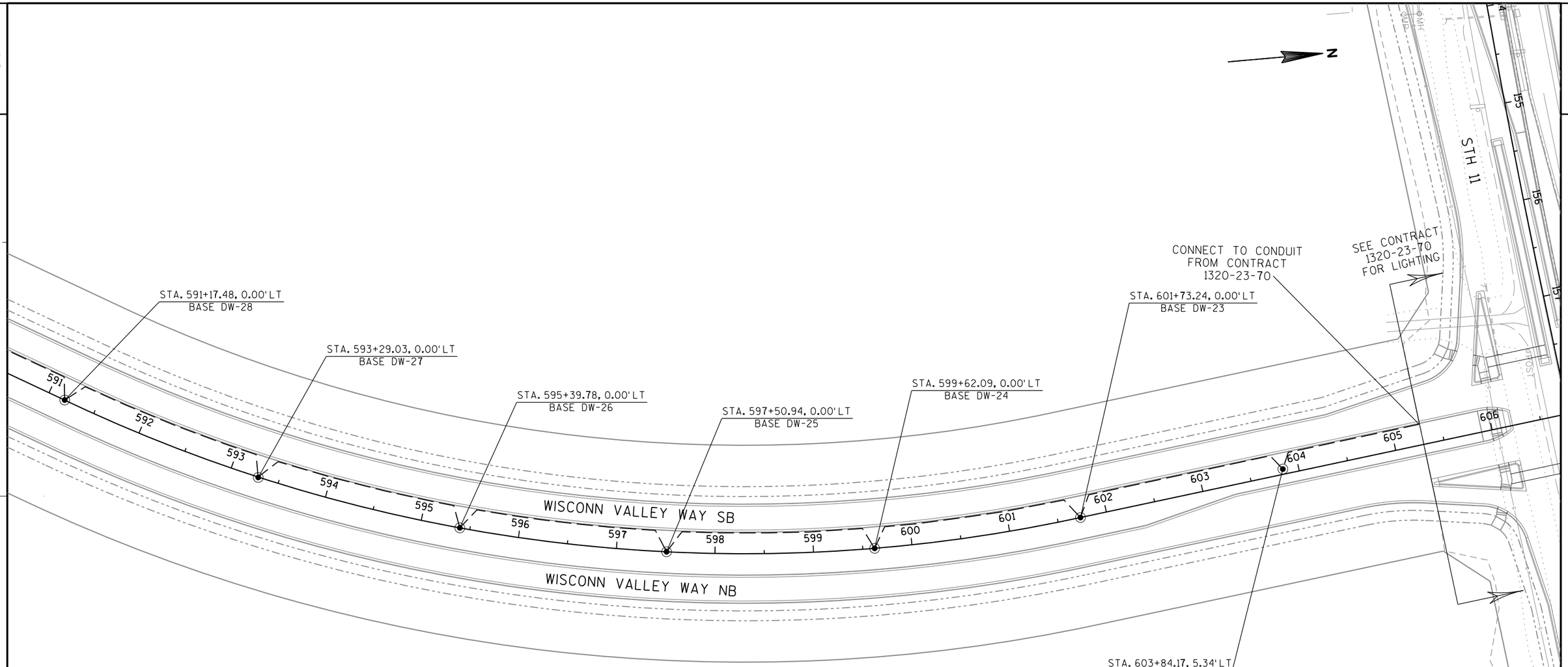
PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	LIGHTING PLAN	SHEET 200	E

2



NOTES
1. ALL CONDUITS ARE EMPTY EXCEPT FOR PULL ROPE.
2. ALL CONDUITS ARE 2" SCHEDULE 40 NON METALLIC UNLESS SIZE IS SHOWN OTHERWISE

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	LIGHTING PLAN	SHEET 201	E



NOTES
1. ALL CONDUITS ARE EMPTY EXCEPT FOR PULL ROPE.
2. ALL CONDUITS ARE 2" SCHEDULE 40 NON METALLIC UNLESS SIZE IS SHOWN OTHERWISE

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	LIGHTING PLAN	SHEET 202	E

2

2

3716EFRC
3716EFRD
3714EFRC
3714EFRD
3712EFRC
3712EFRD
5710EFRA
5710EFRB
5708EFRA
5708EFRB

54BFW
54BRW
56BFW
56BRW
58BRW
60BRW
62BRW
64BRW
66BRW

54BRE
56BRE
58BRE
60BRE
62BRE
64BRE
66BRE

STA. 55BRE+42.21, 6.73'LT
BASE BW-53

STA. 61BRE+10.99, 25.76'LT
BASE BW-3

STA. 66BRE+81.75, 89.50'LT
PULL BOX PB-BW1

STA. 66BRE+79.83, 40.56'LT
BASE BW-6

3"

3"

STA. 57BRE+31.96, 16.82'LT
BASE BW-1

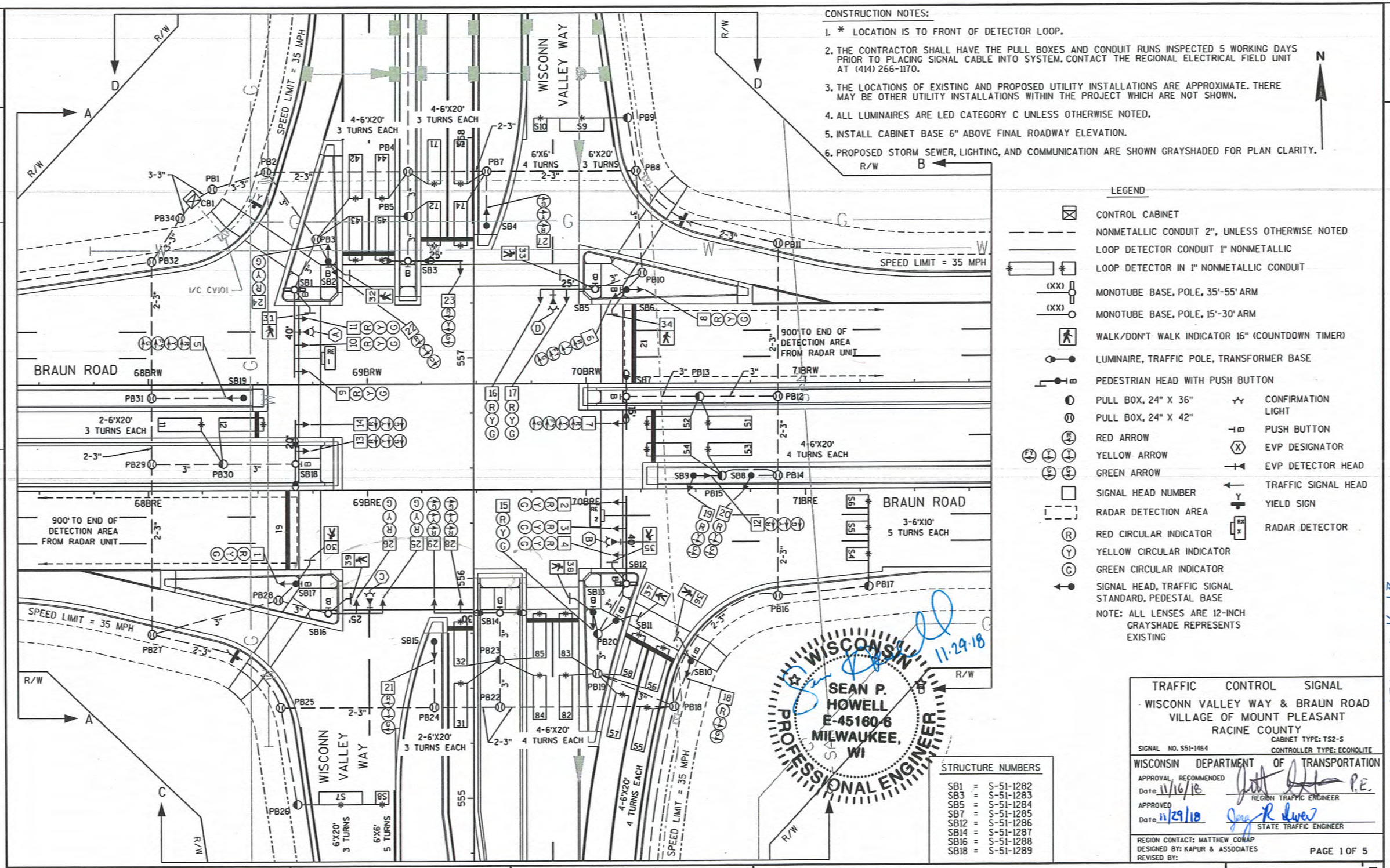
STA. 59BRE+21.28, 23.98'LT
BASE BW-2

STA. 63BRE+0.44, 27.04'LT
BASE BW-4

STA. 64BRE+49.73, 28.45'LT
BASE BW-5

NOTES
1. ALL CONDUITS ARE EMPTY EXCEPT FOR PULL ROPE.
2. ALL CONDUITS ARE 2" SCHEDULE 40 NON METALLIC UNLESS SIZE IS SHOWN OTHERWISE

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	LIGHTING PLAN	SHEET 203	E



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	TRAFFIC SIGNAL PLAN	SHEET 204 E

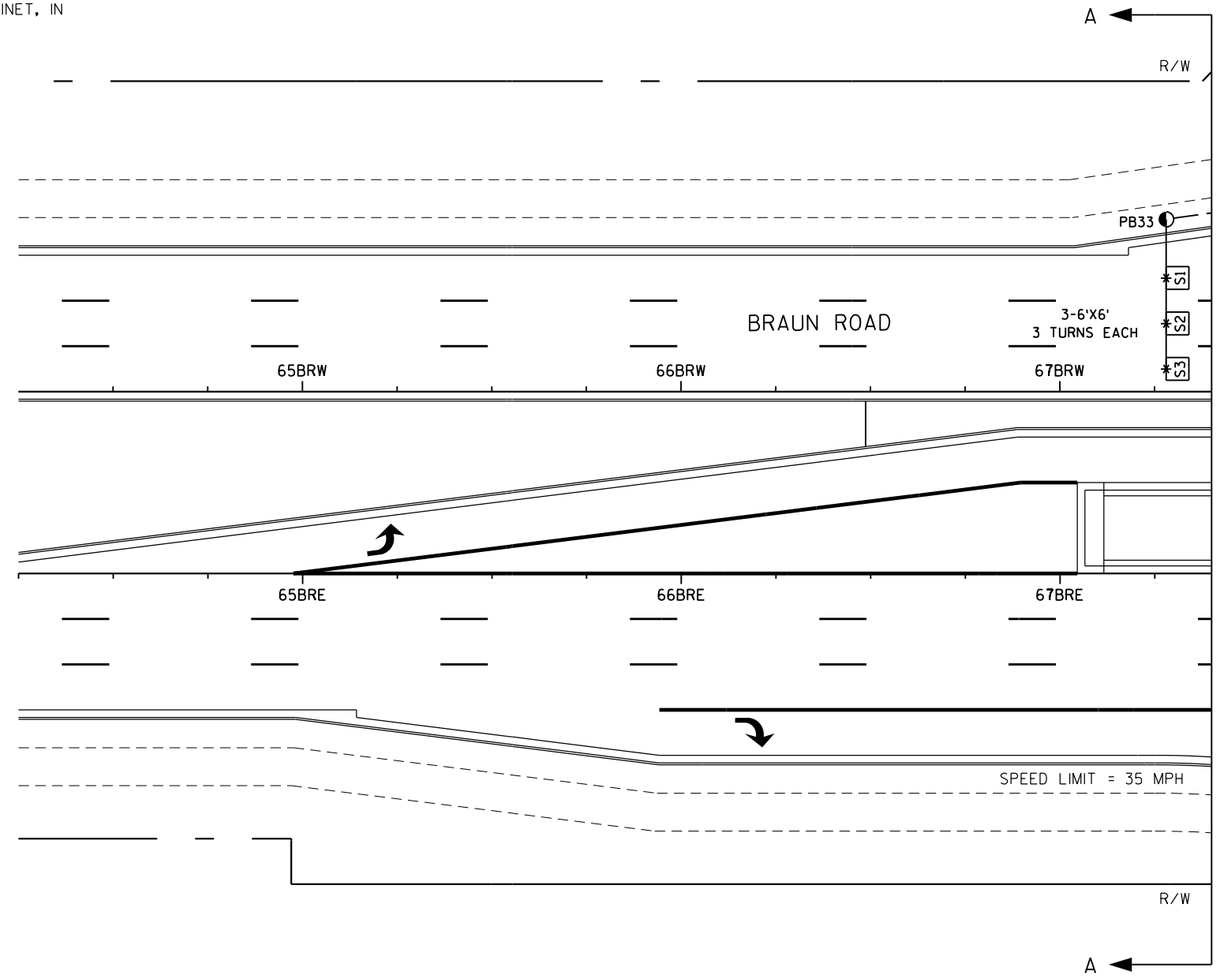
FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\024001_SP.dgn PLOT DATE : 11/13/2018 PLOT BY : showell PLOT NAME : PLOT SCALE : 1:40 WISDOT/CADDS SHEET 42

EVP CONSTRUCTION NOTES:

1. INSTALL THE TRAFFIC SIGNAL EMERGENCY VEHICLE PRE-EMPTION DETECTOR CABLE TO RUN CONTINUOUSLY (WITHOUT SPLICES) FROM THE CABINET TO THE DETECTOR HEADS. MOUNT THE EVP DETECTOR HEADS AND WIRE THEM PER MANUFACTURER INSTRUCTIONS.

2. THE DEPARTMENT WILL DETERMINE THE EXACT LOCATION OF THE EVP DETECTORS TO ENSURE THAT THE INSTALLATION DOES NOT CREATE A SIGHT OBSTRUCTION.

3. ALL EVP DETECTOR CABLE SHALL BE ROUTED THROUGH PROPOSED SIGNAL BASES, PULL BOXES, AND CONDUIT AS INDICATED. PROVIDE ENOUGH CABLE TO ALLOW 10 FEET OF SLACK IN THE CABINET, IN EACH PULL BOX, AND IN THE SIGNAL POLE HANDHOLE.



N

TRAFFIC CONTROL SIGNAL
WISCONN VALLEY WAY & BRAUN ROAD
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-1464

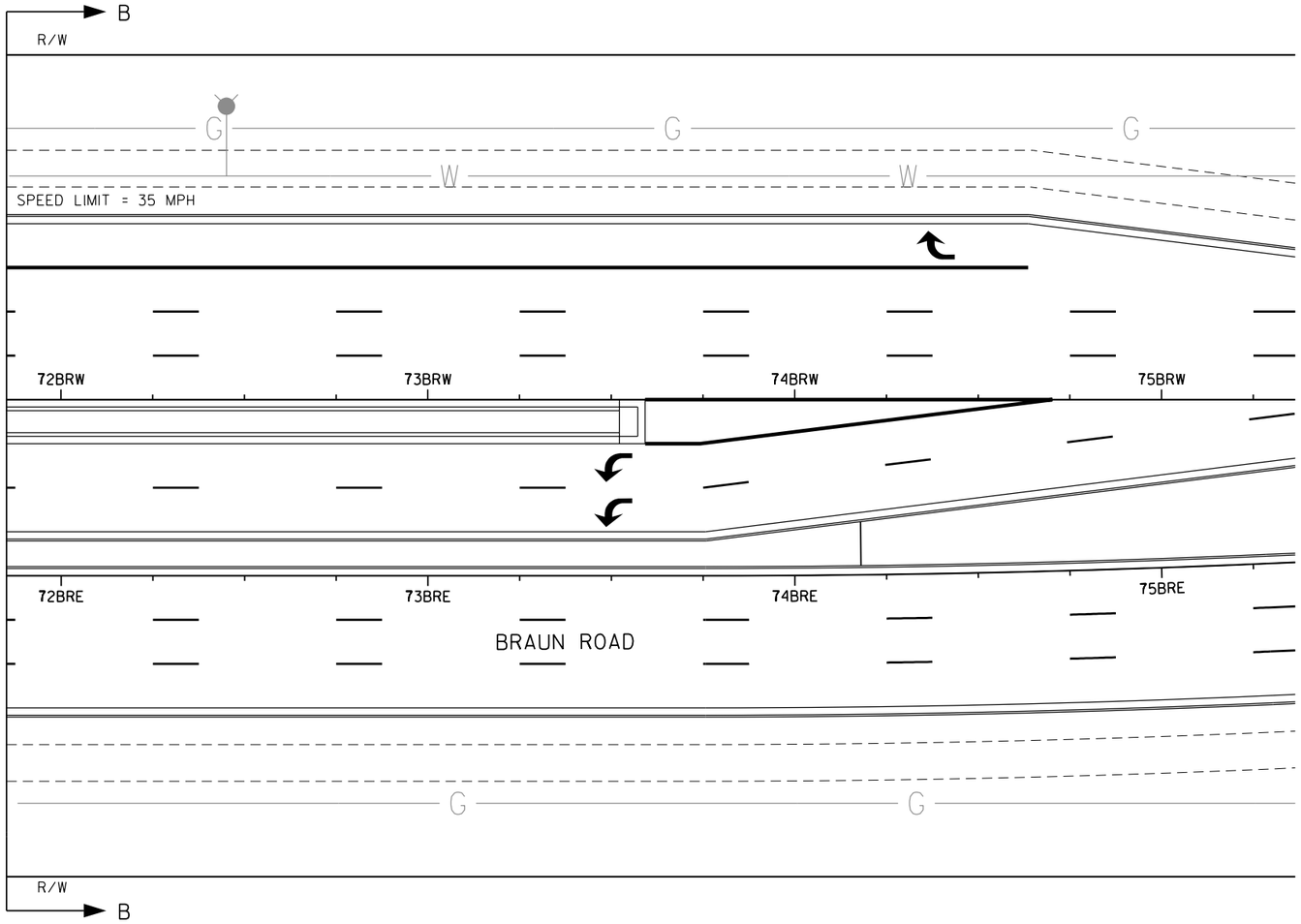
REGION CONTACT: MATTHEW COWAP
DESIGNED BY: KAPUR & ASSOCIATES
REVISED BY:

PAGE 2 OF 5

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	TRAFFIC SIGNAL PLAN	SHEET 205	E

2

N



TRAFFIC CONTROL SIGNAL
WISCONN VALLEY WAY & BRAUN ROAD
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

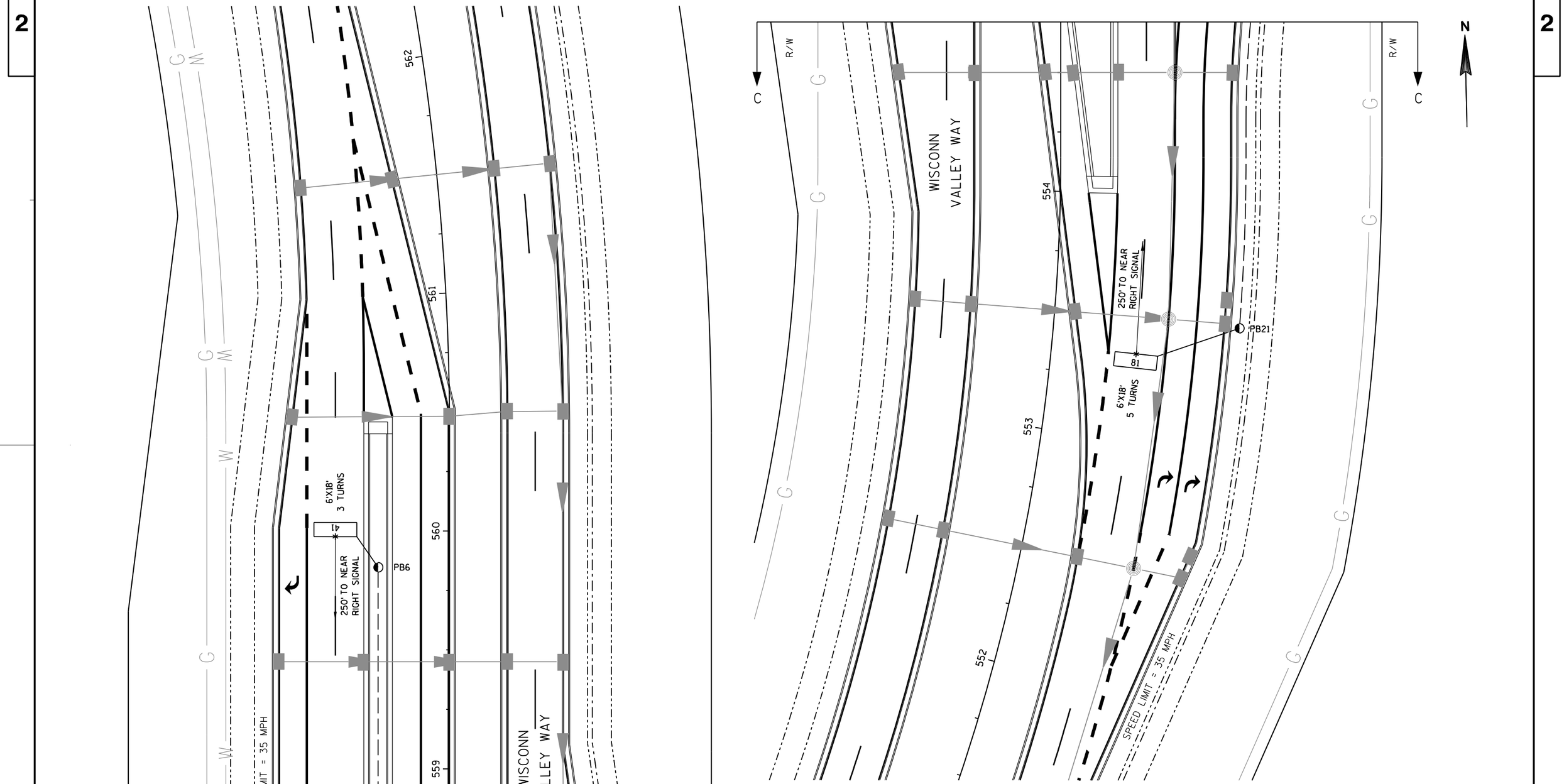
SIGNAL NO. S51-1464

REGION CONTACT: MATTHEW COWAP
DESIGNED BY: KAPUR & ASSOCIATES
REVISED BY:

PAGE 3 OF 5

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	TRAFFIC SIGNAL PLAN	SHEET 206	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\024003_SP.dgn PLOT DATE : 11/13/2018 PLOT BY : showell PLOT NAME : PLOT SCALE : 1:40



TRAFFIC CONTROL SIGNAL
WISCONN VALLEY WAY & BRAUN ROAD
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

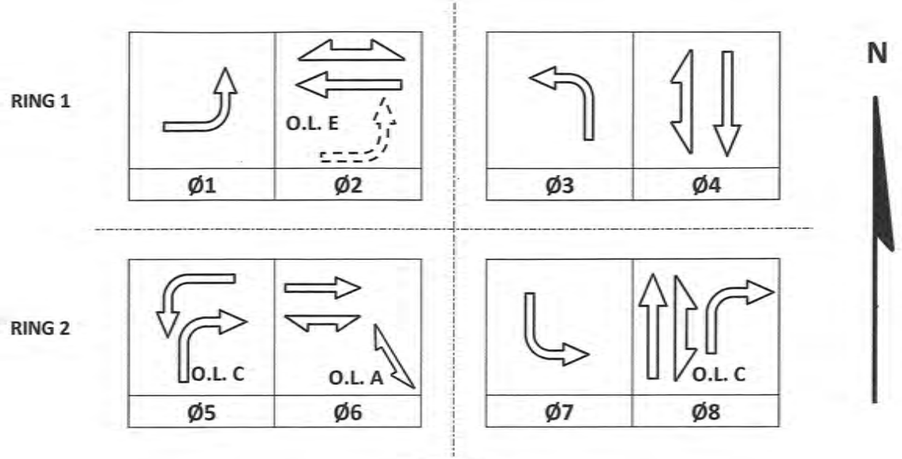
SIGNAL NO. S51-1464

REGION CONTACT: MATTHEW COWAP
DESIGNED BY: KAPUR & ASSOCIATES
REVISED BY:

PAGE 4 OF 5

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	TRAFFIC SIGNAL PLAN	SHEET 207	E

2



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN	X
7		4		X
8		4		X

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	6+1	4+7	8+4

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	X

DETECTOR LOGIC

	HEAD NUMBERS	FLASH
Ø1	5,6,7	R ←
Ø2	8,9,10,11	R
Ø3	21,22,23	R ←
Ø4	24,25,26	R
Ø5	12,13,14	R ←
Ø6	1,2,3,4	R
Ø7	27,28,29	R ←
Ø8	15,16,17	R
Ø2P	32,33	
Ø4P	30,31	
Ø6P	38,39	
Ø8P	34,35	
OLA	36,37	
OLC	18,19,20	R
OLE	5,6,7	

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	31	41	43	45	51	53	55
CALLED PHASE	1	3	4	4	4	5	5	5
CALL OPTION	X	X		X	X	X	X	X
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME			X					
USE ADDED INITIAL								
CROSS SWITCH PHASE	2							

DETECTOR INPUT	19	17	23	21	27	25	31	29
PLAN LOOP DETECTOR*(S)	57	71	73	81	83	85		
CALLED PHASE	5	7	7	8	8	8		
CALL OPTION	X	X	X		X	X		
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X		
EXTEND TIME				X				
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	32	42	44		52	54	56
CALLED PHASE	1	3	4	4		5	5	5
CALL OPTION	X	X	X	X		X	X	X
DELAY TIME								
EXTENTION OPTION	X	X	X	X		X	X	X
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE	2							

DETECTOR INPUT	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)	58	72	74	82	84			
CALLED PHASE	5	7	7	8	8			
CALL OPTION	X	X	X	X	X			
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X			
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	35	33	39	37	43	41	47	45
PLAN LOOP DETECTOR*(S)	21							
CALLED PHASE	2							
CALL OPTION	X							
DELAY TIME								
EXTENTION OPTION	X							
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	51	49	55	53	59	57	63	61
PLAN LOOP DETECTOR*(S)	S1	S3	S5	S7	S9			
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	36	34	40	38	44	42	48	46
PLAN LOOP DETECTOR*(S)	61							
CALLED PHASE	6							
CALL OPTION	X							
DELAY TIME								
EXTENTION OPTION	X							
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	52	50	56	54	60	58	64	62
PLAN LOOP DETECTOR*(S)	S2	S4	S6	S8	S10			
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

TYPE OF COORDINATION	
NONE	X
TBC	
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	X
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	X
LIFT BRIDGE	
QUEUE DETECTION	

BRAUN ROAD & WISCONN VALLEY WAY
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO:	S51-1464	CABINET TYPE: TS2-S
		CONTROLLER TYPE: ECONOLITE
DATE:	12/2018	PAGE NUMBER: 5 OF 5

MJH 11-16-18
MJH 11/16/2018
JMG

PROJECT NO: 2704-00-76	HWY: BRAUN ROAD	COUNTY: RACINE	SEQUENCE OF OPERATIONS	SHEET NO:	E

FILE NAME: S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Reference Files\signals\Econolite_SEQ_WVW_Braun.xls PLOT DATE: ######## PLOT NAME: Econolite_SEQ_WVW_Braun. PLOT BY: _____ PLOT SCALE: 1:1

WISCONN VALLEY WAY & BRAUN ROAD

2

PROJECT ID:	2704-00-76
INTERSECTION:	BRAUN ROAD AND WISCONN VALLEY WAY

SIGNAL WIRE COLOR CODING	BLK-BLACK	RED-RED	GRN-GREEN
	WHT-WHITE	BLU-BLUE	ORG-ORANGE

CB1 TO	NO. OF CONDUCTORS	HEAD NO.	RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	FLASHING <YELLOW>	D/WALK	WALK	PED BUTTON	OTHER
SB1	12	9	RED	ORG	GRN								
		10	RED	ORG	GRN								
		11	RED	ORG	GRN								
		31								BLK	BLU		
		B										WHT/BLK	
SB2	15	22				RED	ORG	GRN					
		24	RED/BLK	ORG/BLK	GRN/BLK								
		32								BLK	BLU		
		B										WHT/BLK	
SB3	7	23				RED	ORG	GRN					
		B										WHT/BLK	
SB4	7	27				RED	ORG	GRN					
SB5	12	16	RED	ORG	GRN								
		17	RED	ORG	GRN								
		33								BLK	BLU		
		B										WHT/BLK	
SB6	15	6				RED	ORG	GRN	BLK/WHT				
		8	RED/BLK	ORG/BLK	GRN/BLK								
		34								BLK	BLU		
		B										WHT/BLK	
SB7	7	7				RED	ORG	GRN	BLK/WHT				
		B										WHT/BLK	
SB8	7	20	RED				ORG	GRN					
SB9	7	19	RED				ORG	GRN					
SB10	12	18	RED				ORG	GRN					
		36								BLK	BLU		
		B										WHT/BLK	
SB11	7	37								BLK	BLU		
		B										WHT/BLK	
SB12	12	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		4	RED	ORG	GRN								
		35								BLK	BLU		
		B										WHT/BLK	
SB13	12	15	RED	ORG	GRN								
		38								BLK	BLU		
		B										WHT/BLK	
SB14	7	28				RED	ORG	GRN					
		29				RED	ORG	GRN					
		B										WHT/BLK	
SB15	7	21				RED	ORG	GRN					
SB16	12	25	RED	ORG	GRN								
		26	RED	ORG	GRN								
		39								BLK	BLU		
		B										WHT/BLK	
SB17	12	1	RED	ORG	GRN								
		30								BLK	BLU		
		B										WHT/BLK	
SB18	7	13				RED	ORG	GRN					
		14				RED	ORG	GRN					
		B										WHT/BLK	
SB19	12	5				RED	ORG	GRN	BLK/WHT				

NOTES:
1. USE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
2. ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.
3. AT THE SIGNAL BASES, CONNECT ON TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.

(CONTINUED ON NEXT SHEET)

WISCONSIN SEAN P. HOWELL E-45160-6 MILWAUKEE, WI PROFESSIONAL ENGINEER 11-29-18

PROJECT NUMBER: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CABLE ROUTING	SHEET NO: 209	E

FILE NAME: S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Reference Files\signals\WVW and Braun Cable Routing Sheet.ppt
PLOT DATE : 9/10/2018 11:14:22 AM PLOT BY : KAPUR & ASSOCIATES PLOT SCALE : 1:1

(CONTINUED)

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB14
SB14	SB15
SB15	SB16
SB16	SB17
SB17	SB18
SB18	SB19
SB19	CB1

LIGHTING UF 10 AWG W/GROUND	
FROM	TO
CB1	SB3
SB3	SB7
CB1	SB18
SB18	SB14

PULL BOX BONDING JUMPER 10 AWG GRN XLP	
FROM	TO
PB1	CB1
PB2	CB1
PB3	SB1
PB4	SB3
PB5	SB3
PB7	SB4
PB8	SB5
PB10	SB5
PB11	SB7
PB12	SB7
PB13	SB7
PB14	SB8
PB15	SB9
PB16	SB8
PB18	SB10
PB19	SB12
PB20	SB12
PB22	SB14
PB23	SB14
PB24	SB15
PB25	SB15
PB27	SB16
PB28	SB16
PB29	SB18
PB30	SB18
PB31	SB19
PB32	CB1
PB34	CB1

EMERGENCY VEHICLE PREEMPTION	
FROM	TO
CB1	SB1 (HEAD A)
CB1	SB12 (HEAD B)
CB1	SB16 (HEAD C)
CB1	SB5 (HEAD D)

CONFIRMATION BEACON CABLE TRAFFIC SIGNAL 3-14 AWG	
FROM	TO
CB1	SB1 (HEAD A)
CB1	SB12 (HEAD B)
CB1	SB16 (HEAD C)
CB1	SB5 (HEAD D)

RADAR DETECTION CABLE	
FROM	TO
CB1	SB1 (RE1)
CB1	SB12 (RE2)

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE REGIONAL ELECTRIAL FIELD UNIT AT (414) 266-1170.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHN THE PROJECT WHICH ARE NOT SHOWN.
3. PROPOSED STORM SEWER, LIGHTING AND TRAFFIC SIGNALS ARE SHOWN GRAYSHADED FOR PLAN CLARITY.
4. COMMUNICATION PROVIDED VIA CELLULAR MODEM
5. INSTALL UNDERGROUND INFRASTRUCTURE

R/W

WISCONN VALLEY WAY

558

CV558

I/C CV101

FIBER OPTIC TRACER CABLE

FIBER OPTIC TRACER CABLE TO CONNECT TO VAULT CV374

557

556

555

BRAUN ROAD

67BRW 68BRW 69BRW 70BRW 71BRW 72BRW

67BRE 68BRE 69BRE 70BRE 71BRE 72BRE

25' 30' 40'

N

LEGEND

NONMETALLIC COMMUNICATION CONDUIT 2", UNLESS OTHERWISE NOTED

COMMUNICATION VAULT

CONTROL CABINET

NOTE: GRAYSHADE REPRESENTS EXISTING

TRAFFIC CONTROL INTERCONNECT
WISCONN VALLEY WAY & BRAUN ROAD
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

SIGNAL NO. S51-1464

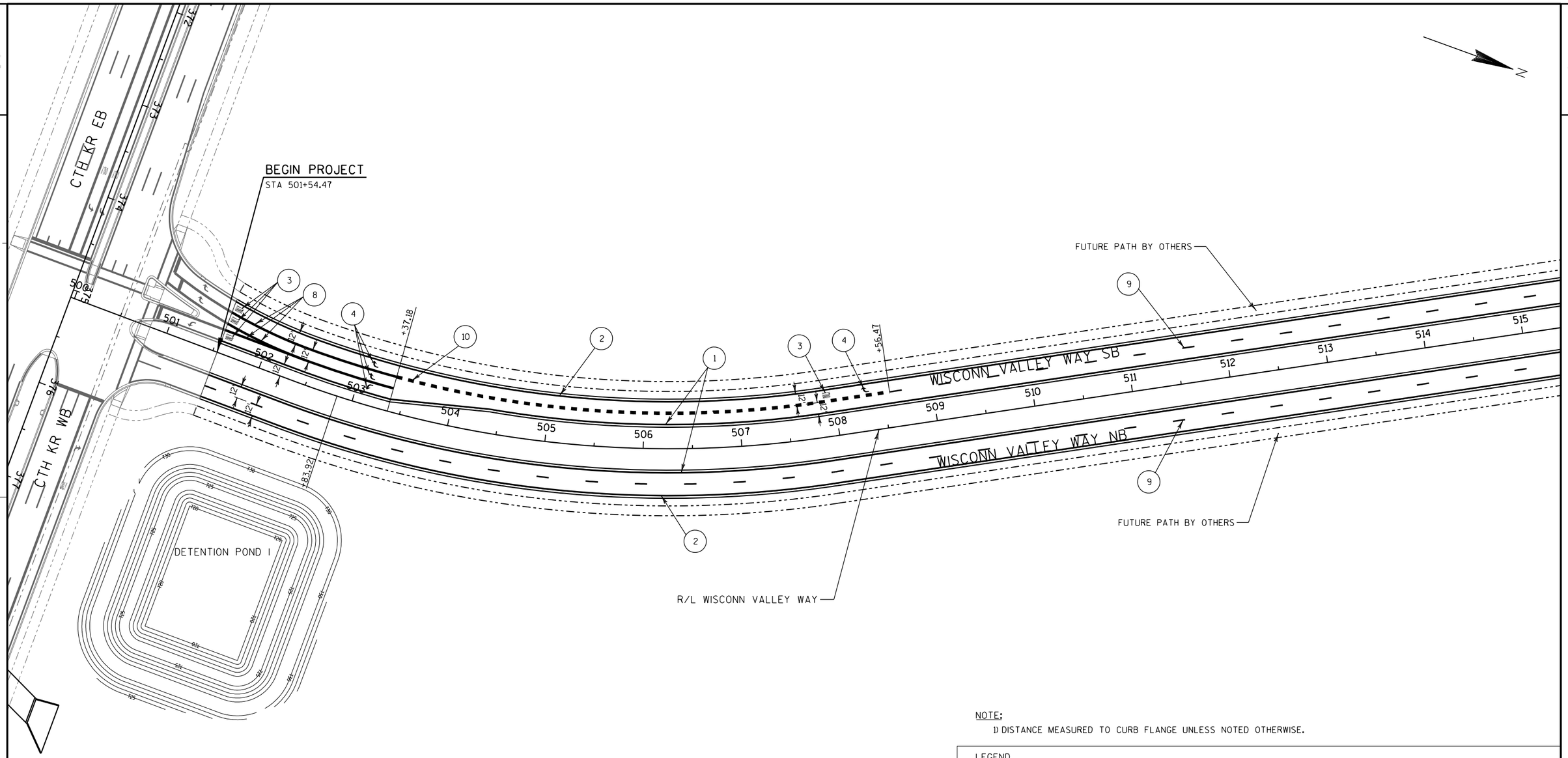
REGION CONTACT: MATTHEW COWAP
DESIGNED BY: KAPUR & ASSOCIATES
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	COMMUNICATION PLAN	SHEET 211	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\024005_SP.dgn PLOT DATE : 11/13/2018 PLOT BY : showell PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42



NOTE:

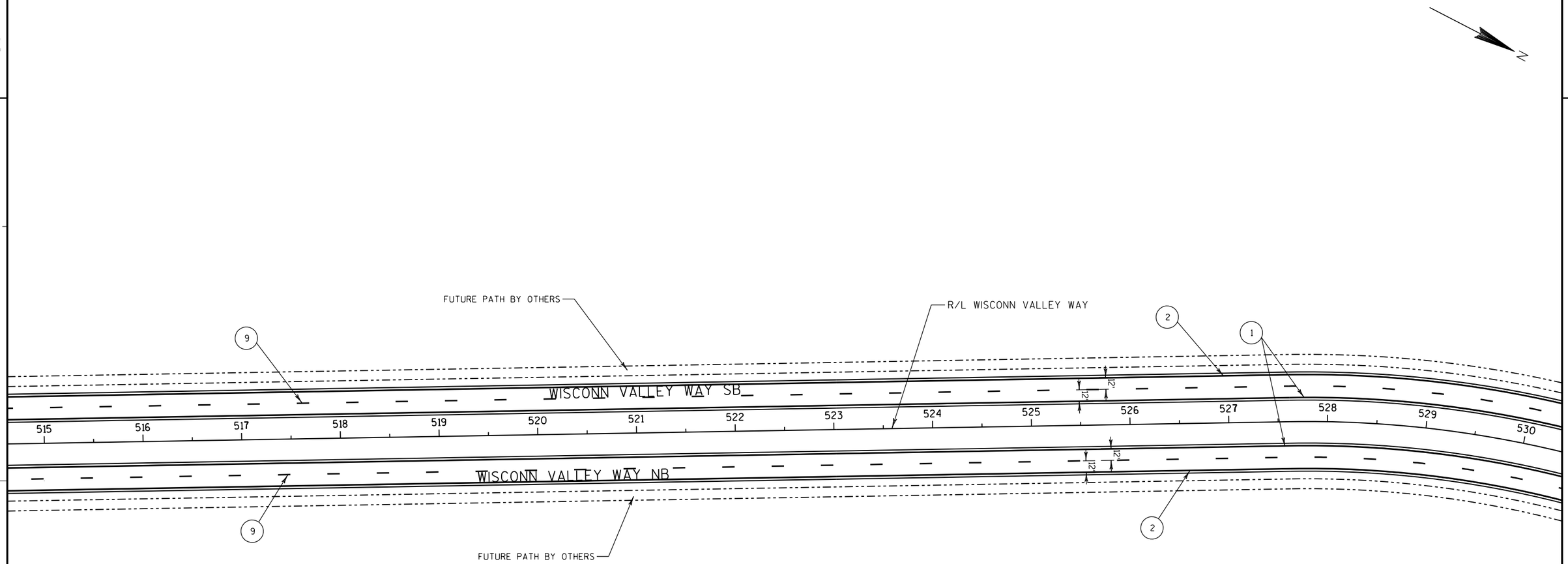
1) DISTANCE MEASURED TO CURB FLANGE UNLESS NOTED OTHERWISE.

LEGEND

1	MARKING LINE EPOXY 4-INCH (YELLOW)
2	MARKING LINE EPOXY 4-INCH (WHITE)
3	MARKING WORD EPOXY (WHITE)
4	MARKING ARROW EPOXY (WHITE)
5	MARKING STOP LINE EPOXY 18-INCH (WHITE)
6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
7	MARKING ISLAND NOSE EPOXY
8	MARKING LINE CONTRAST EPOXY 8-INCH (WHITE)
9	MARKING LINE CONTRAST EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
10	MARKING LINE CONTRAST EPOXY 8-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
11	MARKING CURB EPOXY

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVEMENT MARKING PLAN	SHEET 212	E

2



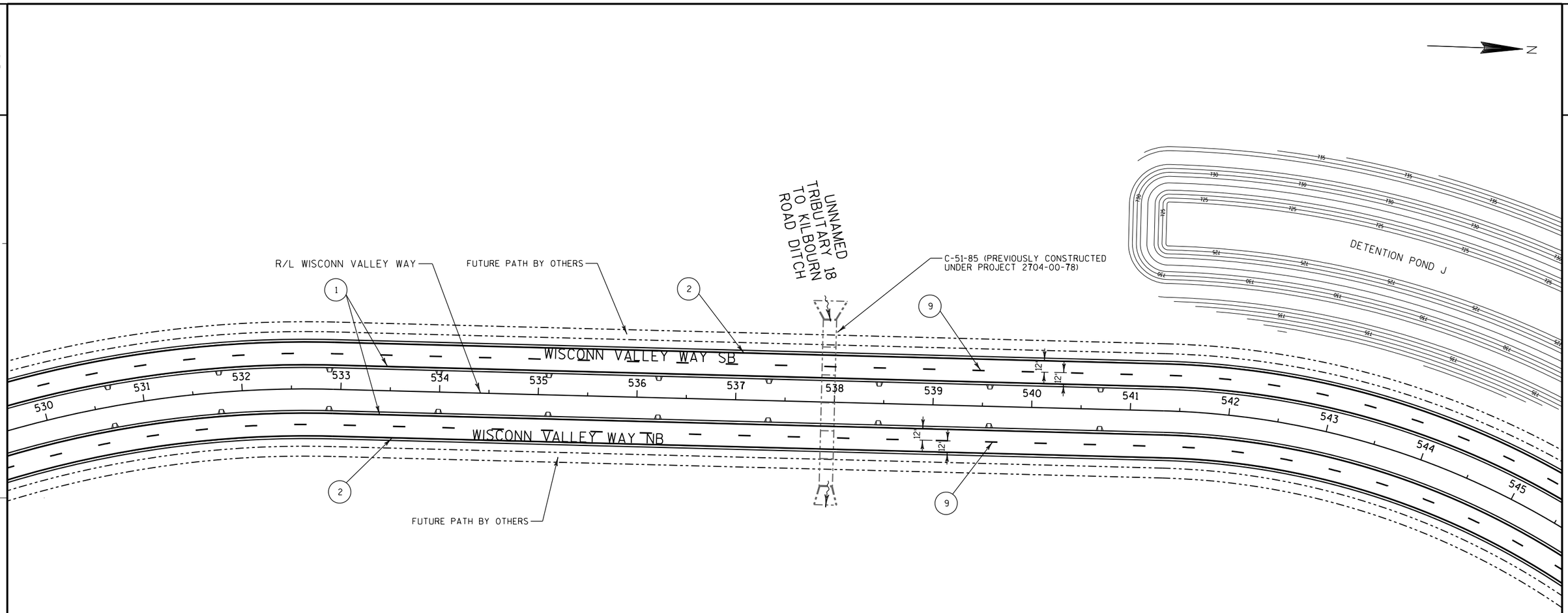
NOTE:

1) DISTANCE MEASURED TO CURB FLANGE UNLESS NOTED OTHERWISE.

LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW)
2. MARKING LINE EPOXY 4-INCH (WHITE)
3. MARKING WORD EPOXY (WHITE)
4. MARKING ARROW EPOXY (WHITE)
5. MARKING STOP LINE EPOXY 18-INCH (WHITE)
6. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
7. MARKING ISLAND NOSE EPOXY
8. MARKING LINE CONTRAST EPOXY 8-INCH (WHITE)
9. MARKING LINE CONTRAST EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
10. MARKING LINE CONTRAST EPOXY 8-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
11. MARKING CURB EPOXY

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVEMENT MARKING PLAN	SHEET 213	E



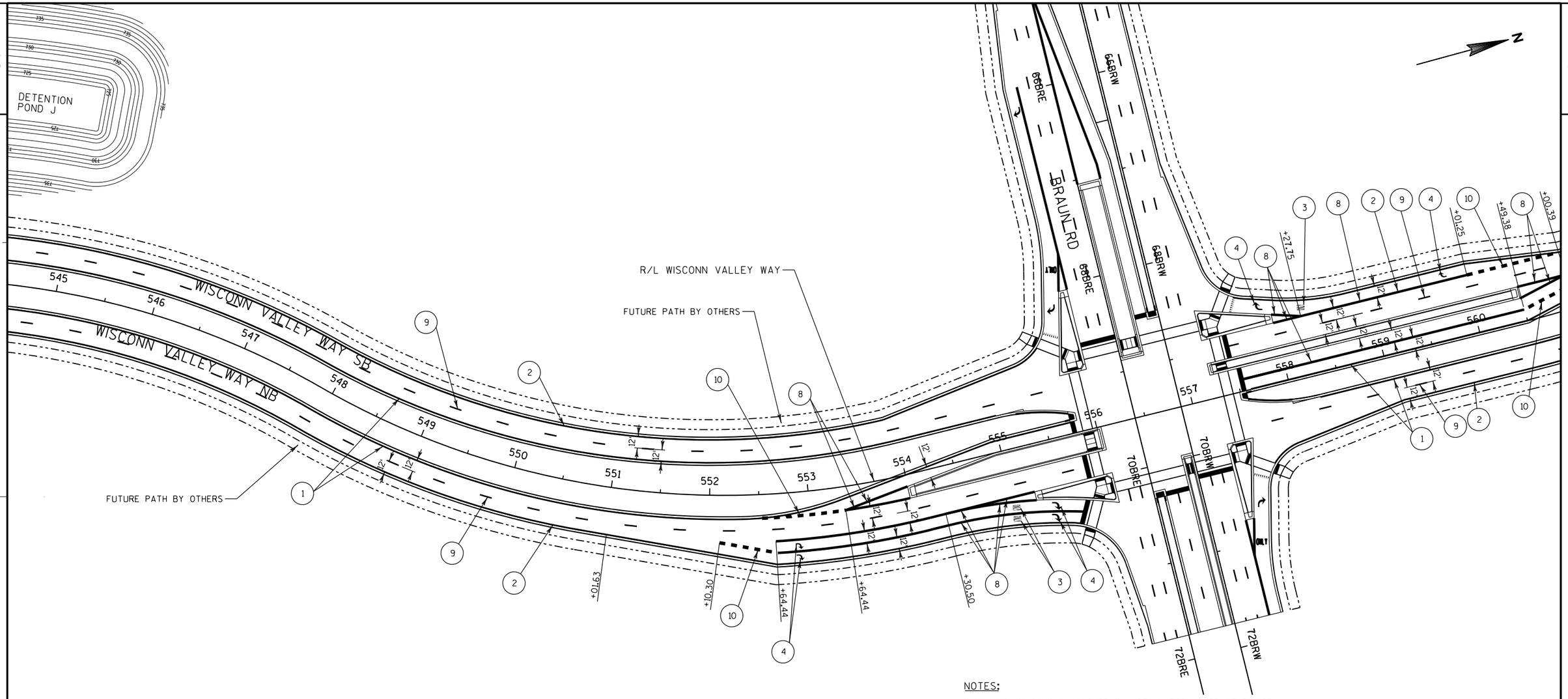
NOTE:

1) DISTANCE MEASURED TO CURB FLANGE UNLESS NOTED OTHERWISE.

LEGEND

1. MARKING LINE EPOXY 4-INCH (YELLOW)
2. MARKING LINE EPOXY 4-INCH (WHITE)
3. MARKING WORD EPOXY (WHITE)
4. MARKING ARROW EPOXY (WHITE)
5. MARKING STOP LINE EPOXY 18-INCH (WHITE)
6. MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH
7. MARKING ISLAND NOSE EPOXY
8. MARKING LINE CONTRAST EPOXY 8-INCH (WHITE)
9. MARKING LINE CONTRAST EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
10. MARKING LINE CONTRAST EPOXY 8-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
11. MARKING CURB EPOXY

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVEMENT MARKING PLAN	SHEET 214	E



NOTES:

1) DISTANCE MEASURED TO CURB FLANGE UNLESS NOTED OTHERWISE.

2) SEE NEXT SHEET FOR MARKINGS AT INTERSECTION.

3) SEE BRAUN ROAD SHEETS FOR ADDITIONAL INFORMATION.

LEGEND

1	MARKING LINE EPOXY 4-INCH (YELLOW)	8	MARKING LINE CONTRAST EPOXY 8-INCH (WHITE)
2	MARKING LINE EPOXY 4-INCH (WHITE)	9	MARKING LINE CONTRAST EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
3	MARKING WORD EPOXY (WHITE)	10	MARKING LINE CONTRAST EPOXY 8-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
4	MARKING ARROW EPOXY (WHITE)	11	MARKING CURB EPOXY
5	MARKING STOP LINE EPOXY 18-INCH (WHITE)		
6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH		
7	MARKING ISLAND NOSE EPOXY		

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVEMENT MARKING PLAN	SHEET 215	E

2

N

WISCONN VALLEY WAY

+65.81
95.41' LT

+47.62
60.00' LT

+23.23
33.04' LT

+70.12
14.00' LT

+77.12
12.00' LT

+54.12
24.00' LT

+61.12
2.00' RT

+80.62
48.00' RT

+99.43
20.00' RT

+62.01
91.19' RT

R/L WISCONN VALLEY WAY

R/L BRAUN ROAD EB

R/L BRAUN ROAD WB

BRAUN ROAD

70BRE

70BRW

72BRE

72BRW

74BRE

74BRW

549 550 551 552 553 554 558 559 560 561 562 563 564

(4) MARKING ARROW EPOXY (WHITE)

(5) MARKING STOP LINE EPOXY 18-INCH (WHITE)

(6) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH

(7) MARKING ISLAND NOSE EPOXY

(8) MARKING LINE CONTRAST EPOXY 8-INCH (WHITE)

(9) MARKING LINE CONTRAST EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)

(11) MARKING CURB EPOXY

(12) MARKING LINE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)

(14) MARKING YIELD LINE EPOXY 18-INCH (WHITE)

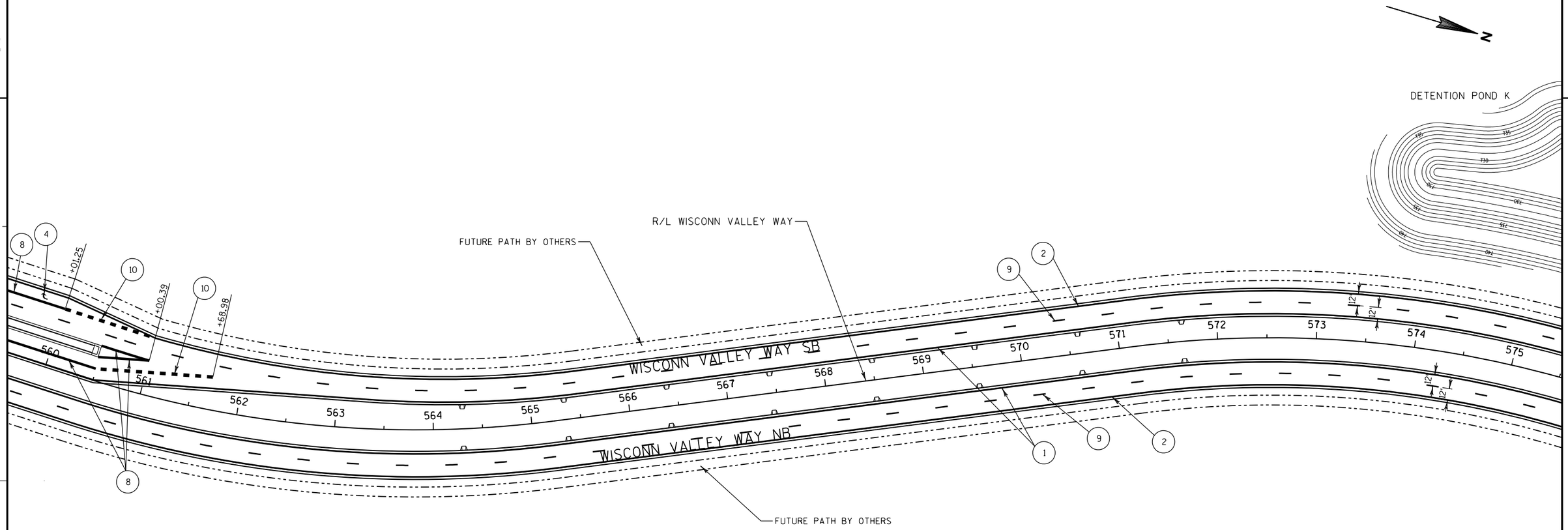
NOTE:

DISTANCE MEASURED TO CURB FLANGE UNLESS NOTED OTHERWISE.

PROJECT NO: 2704-00-76	HWY: BRAUN ROAD	COUNTY: RACINE	PAVEMENT MARKINGS: WISCONN VALLEY WAY	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PLOTSHEETS\32pavmrk.dgn 30 Oct 2018 3:48:13 PM PLOT BY : jdepies PLOT NAME : PLOT SCALE : 100:1

2



NOTE:

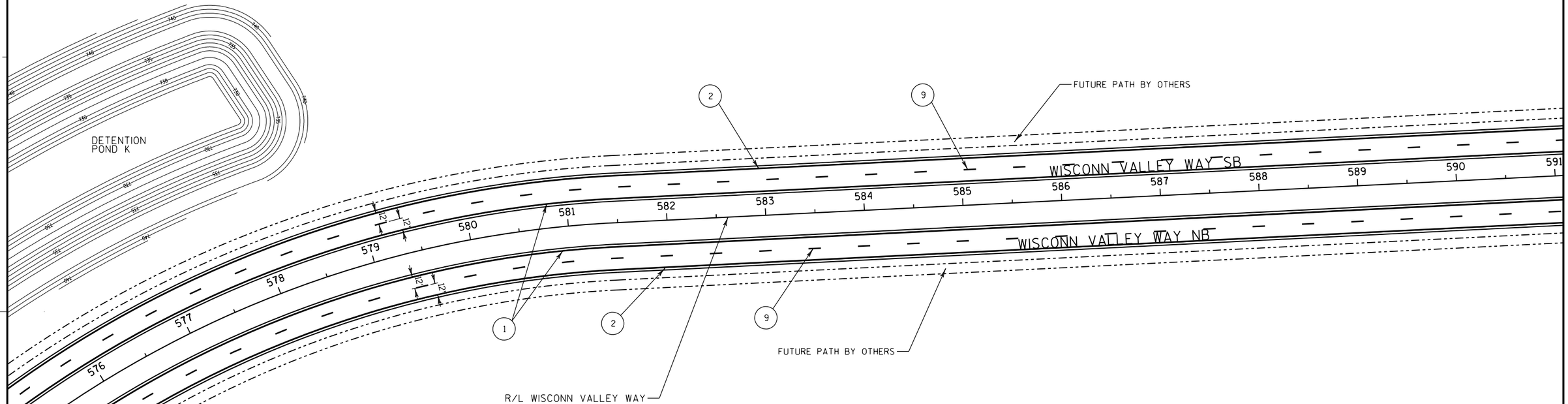
1) DISTANCE MEASURED TO CURB FLANGE UNLESS NOTED OTHERWISE.

LEGEND

1	MARKING LINE EPOXY 4-INCH (YELLOW)	8	MARKING LINE CONTRAST EPOXY 8-INCH (WHITE)
2	MARKING LINE EPOXY 4-INCH (WHITE)	9	MARKING LINE CONTRAST EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
3	MARKING WORD EPOXY (WHITE)	10	MARKING LINE CONTRAST EPOXY 8-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
4	MARKING ARROW EPOXY (WHITE)	11	MARKING CURB EPOXY
5	MARKING STOP LINE EPOXY 18-INCH (WHITE)		
6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH		
7	MARKING ISLAND NOSE EPOXY		

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVEMENT MARKING PLAN	SHEET 217	E

2



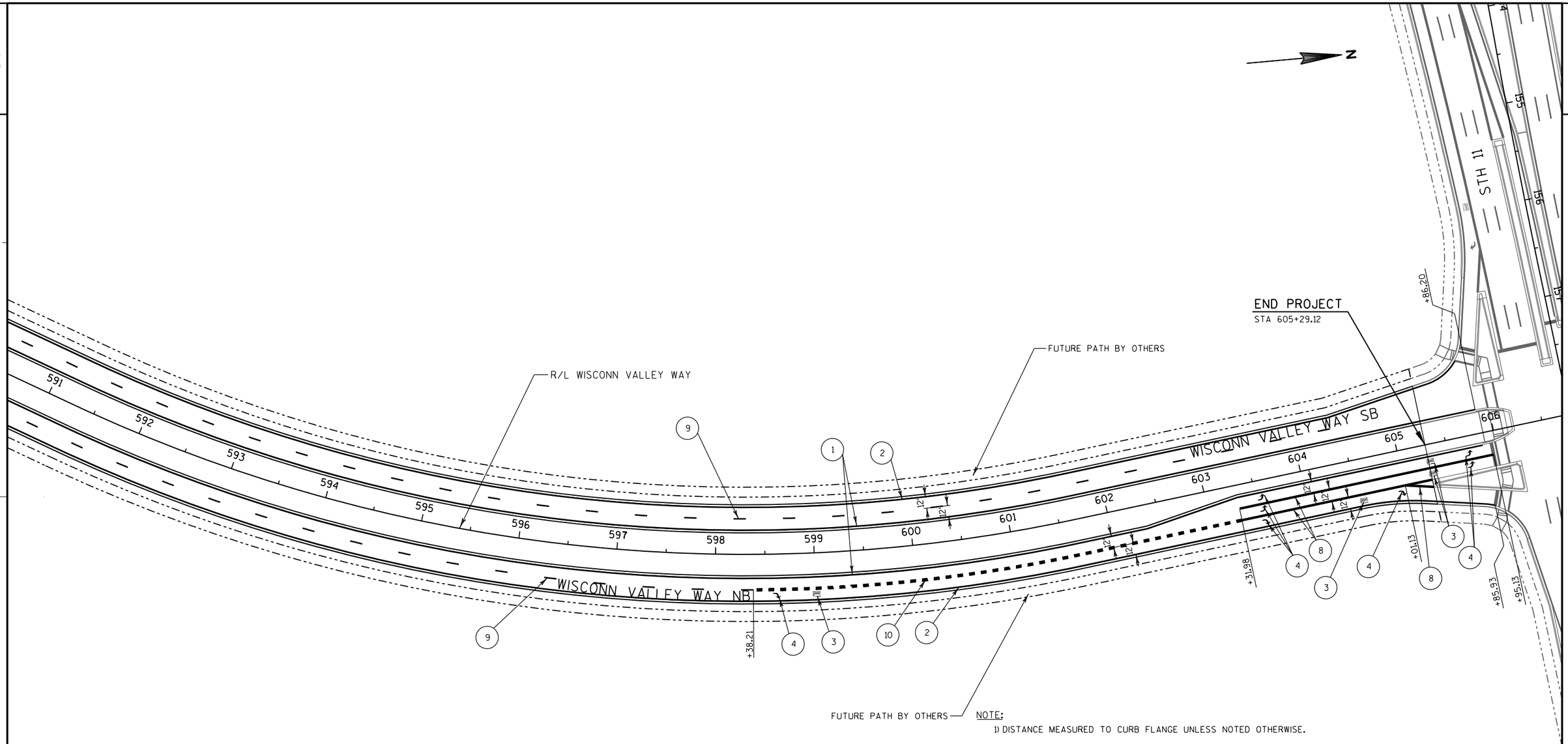
NOTE:

1) DISTANCE MEASURED TO CURB FLANGE UNLESS NOTED OTHERWISE.

LEGEND

1	MARKING LINE EPOXY 4-INCH (YELLOW)	8	MARKING LINE CONTRAST EPOXY 8-INCH (WHITE)
2	MARKING LINE EPOXY 4-INCH (WHITE)	9	MARKING LINE CONTRAST EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
3	MARKING WORD EPOXY (WHITE)	10	MARKING LINE CONTRAST EPOXY 8-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
4	MARKING ARROW EPOXY (WHITE)	11	MARKING CURB EPOXY
5	MARKING STOP LINE EPOXY 18-INCH (WHITE)		
6	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH		
7	MARKING ISLAND NOSE EPOXY		

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVEMENT MARKING PLAN	SHEET 218	E



FUTURE PATH BY OTHERS

NOTE:

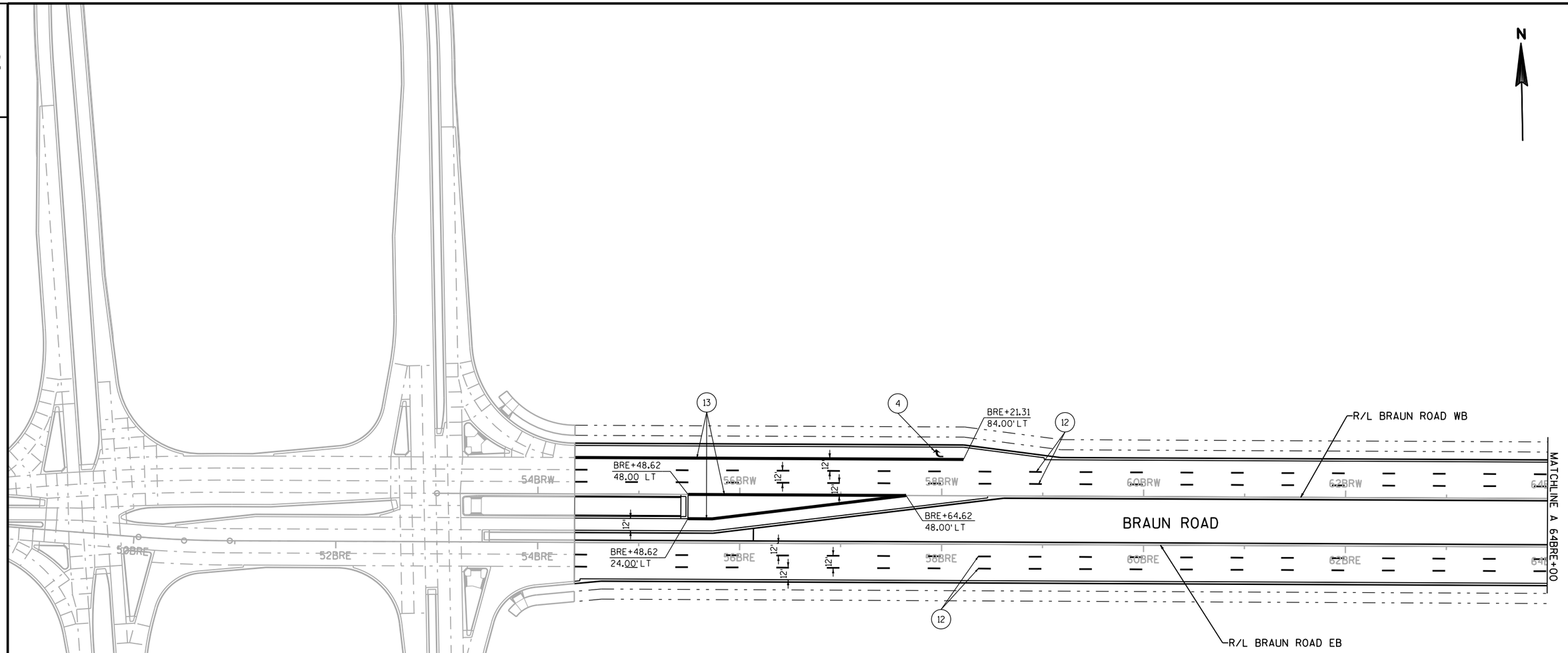
1) DISTANCE MEASURED TO CURB FLANGE UNLESS NOTED OTHERWISE.

LEGEND

1 MARKING LINE EPOXY 4-INCH (YELLOW)	8 MARKING LINE CONTRAST EPOXY 8-INCH (WHITE)
2 MARKING LINE EPOXY 4-INCH (WHITE)	9 MARKING LINE CONTRAST EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
3 MARKING WORD EPOXY (WHITE)	10 MARKING LINE CONTRAST EPOXY 8-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
4 MARKING ARROW EPOXY (WHITE)	11 MARKING CURB EPOXY
5 MARKING STOP LINE EPOXY 18-INCH (WHITE)	
6 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH	
7 MARKING ISLAND NOSE EPOXY	

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PAVEMENT MARKING PLAN	SHEET 219	E

2



(4) MARKING ARROW EPOXY (WHITE)

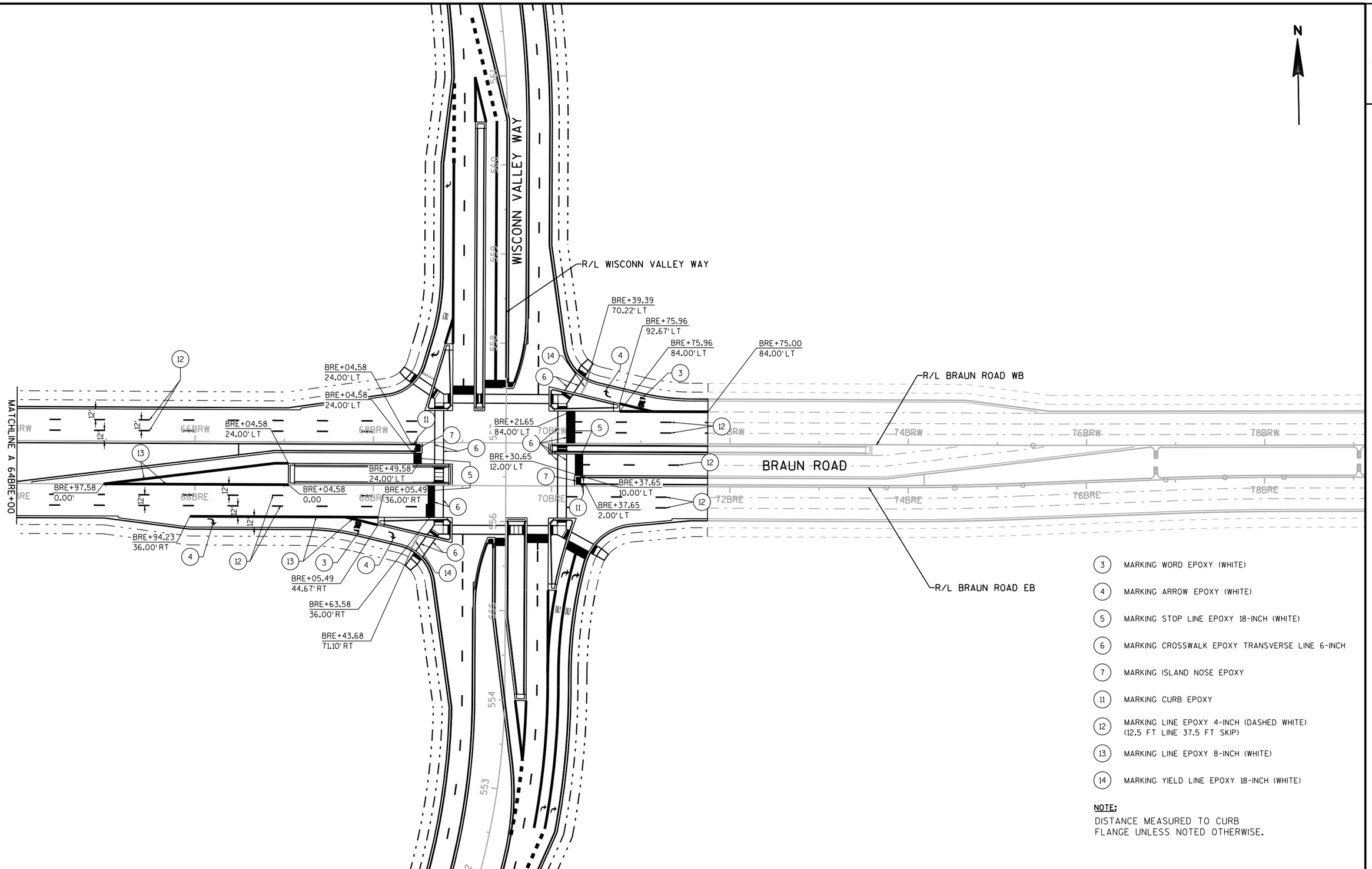
(12) MARKING LINE EPOXY 4-INCH (DASHED WHITE)
(12.5 FT LINE 37.5 FT SKIP)

(13) MARKING LINE EPOXY 8-INCH (WHITE)

NOTE:
DISTANCE MEASURED TO CURB
FLANGE UNLESS NOTED OTHERWISE.

PROJECT NO: 2704-00-76	HWY: BRAUN ROAD	COUNTY: RACINE	PAVEMENT MARKINGS: BRAUN ROAD	SHEET 220	E

2



(3) MARKING WORD EPOXY (WHITE)

(4) MARKING ARROW EPOXY (WHITE)

(5) MARKING STOP LINE EPOXY 18-INCH (WHITE)

(6) MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH

(7) MARKING ISLAND NOSE EPOXY

(11) MARKING CURB EPOXY

(12) MARKING LINE EPOXY 4-INCH (DASHED WHITE)
(12.5 FT LINE 37.5 FT SKIP)

(13) MARKING LINE EPOXY 8-INCH (WHITE)

(14) MARKING YIELD LINE EPOXY 18-INCH (WHITE)

NOTE:
DISTANCE MEASURED TO CURB
FLANGE UNLESS NOTED OTHERWISE.

PROJECT NO: 2704-00-76	HWY: BRAUN ROAD	COUNTY: RACINE	PAVEMENT MARKINGS: BRAUN ROAD	SHEET 221	E

LEGEND

WORKZONE (CLOSED TO TRAFFIC)

BEGIN CONSTRUCTION
STA 54BRE+36.47

C-51-85 (BOX CULVERT WILL BE CONSTRUCTED PRIOR TO LET AS SEPARATE PROJECT)

BRAUN RD

PROJECT 2704-00-77
BY OTHERS

BEGIN PROJECT 2704-00-76
STA 501+54.47

CTH KR

WISCONN VALLEY WAY

R/L WISCONN VALLEY WAY

UNNAMED TRIBUTARY NO. 18 TO KILBOURN ROAD DITCH

PROJECT 2704-09-70
BY OTHERS

END CONSTRUCTION
STA 71BRE+75.05

CTH KR IS UNDER CONSTRUCTION, BUT OPEN TO TRAFFIC.
COORDINATE WITH PROJECT ID 2704-00-77

KILBOURN ROAD DITCH

UNNAMED TRIBUTARY TO KILBOURN ROAD DITCH

WISCONN VALLEY WAY

R/L WISCONN VALLEY WAY

PROJECT 1320-23-70
BY OTHERS

STH 11

CONSTRUCTION

- CONSTRUCT WISCONN VALLEY WAY
- CONSTRUCT BRAUN ROAD
- CONSTRUCT STORM WATER PONDS

TRAFFIC

- CTH KR IS OPEN TO TRAFFIC. TRAFFIC CONTROL AT WISCONN VALLEY WAY INTERSECTION BY PROJECT 2704-00-77
- BRAUN ROAD IS CLOSED TO TRAFFIC. TRAFFIC CONTROL BY 2704-09-70.
- STH 11 IS OPEN TO TRAFFIC. TRAFFIC CONTROL AT WISCONN VALLEY WAY INTERSECTION BY PROJECT 1320-23-70

END PROJECT 2704-00-76
STA 605+29.12

STH 11 IS UNDER CONSTRUCTION, BUT OPEN TO TRAFFIC.
COORDINATE WITH PROJECT ID 1320-23-70

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CONSTRUCTION STAGING - STAGE 1	SHEET 222	E



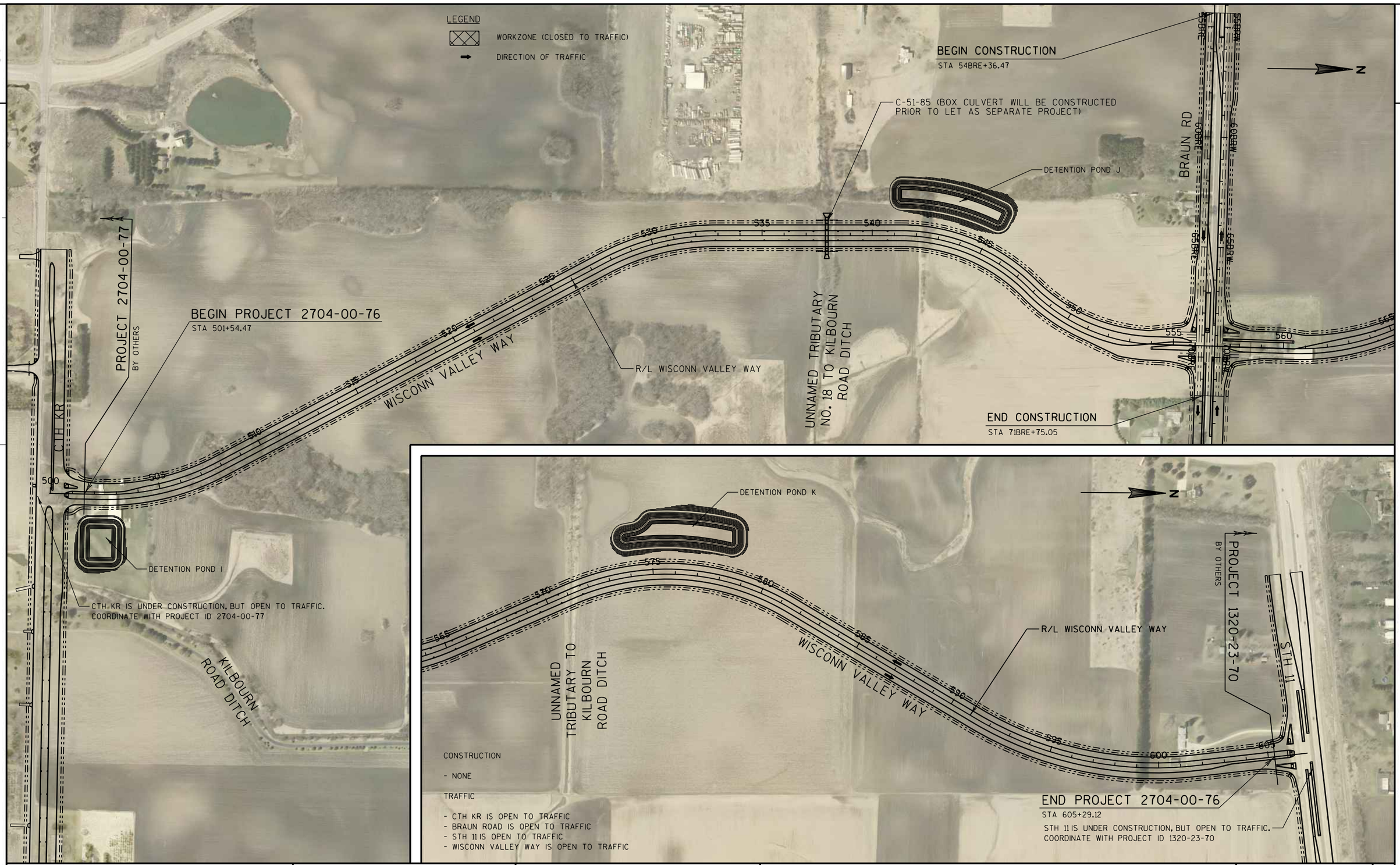
CONSTRUCTION

- CONSTRUCT WISCONN VALLEY WAY

TRAFFIC

- CTH KR IS OPEN TO TRAFFIC. TRAFFIC CONTROL AT WISCONN VALLEY WAY INTERSECTION BY PROJECT 2704-00-77
- BRAUN ROAD IS OPEN TO TRAFFIC. SEE TRAFFIC CONTROL STAGE 2.
- STH 11 IS OPEN TO TRAFFIC. TRAFFIC CONTROL AT WISCONN VALLEY WAY INTERSECTION BY PROJECT 1320-23-70

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CONSTRUCTION STAGING - STAGE 2	SHEET 223	E



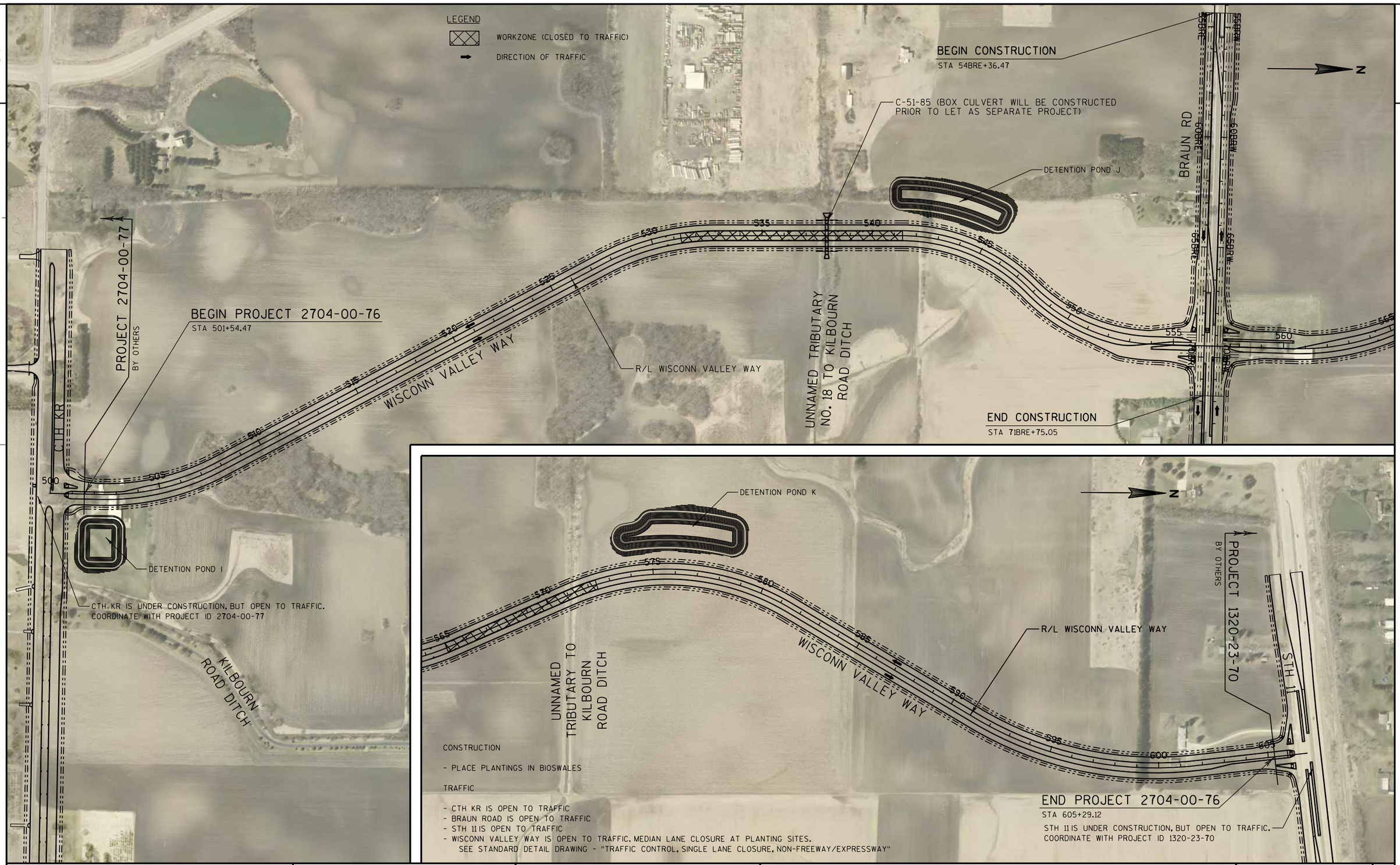
CONSTRUCTION

- NONE

TRAFFIC

- CTH KR IS OPEN TO TRAFFIC
- BRAUN ROAD IS OPEN TO TRAFFIC
- STH 11 IS OPEN TO TRAFFIC
- WISCONN VALLEY WAY IS OPEN TO TRAFFIC

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CONSTRUCTION STAGING - STAGE 3 (WINTER SHUTDOWN)	SHEET 224	E



CONSTRUCTION

- PLACE PLANTINGS IN BIOSWALES

TRAFFIC

- CTH KR IS OPEN TO TRAFFIC
- BRAUN ROAD IS OPEN TO TRAFFIC
- STH 11 IS OPEN TO TRAFFIC
- WISCONN VALLEY WAY IS OPEN TO TRAFFIC. MEDIAN LANE CLOSURE AT PLANTING SITES.
  SEE STANDARD DETAIL DRAWING - "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY"

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CONSTRUCTION STAGING - STAGE 4	SHEET 225	E

2

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- DIRECTION OF TRAFFIC

N

WISCONN VALLEY WAY SB

WISCONN VALLEY WAY NB

561

560

559

558

557

556

555

554

553

552

ROAD CLOSED
R11-2
48" X 30"

END ROAD WORK
G20-2A
48" X 24"

LANE CLOSED
R11-2L
48" X 30"

500'

ROAD WORK AHEAD
W20-1

64BRW

66BRW

68BRW

70BRW

72BRW

74BRW

76BRW

BRAUN RD WB

64BRE

66BRE

68BRE

70BRE

72BRE

74BRE

76BRE

BRAUN RD EB

LANE CLOSED
R11-2L
48" X 30"

ROAD CLOSED
R11-2
48" X 30"

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1

500'

GENERAL NOTES FOR TRAFFIC CONTROL

1) TRAFFIC CONTROL DRUMS IN TAPERS SHALL BE EQUIPPED WITH WARNING LIGHTS, TYPE "C", ONE WAY LIGHTS IN TAPERS ONLY, UNLESS OTHERWISE SHOWN.

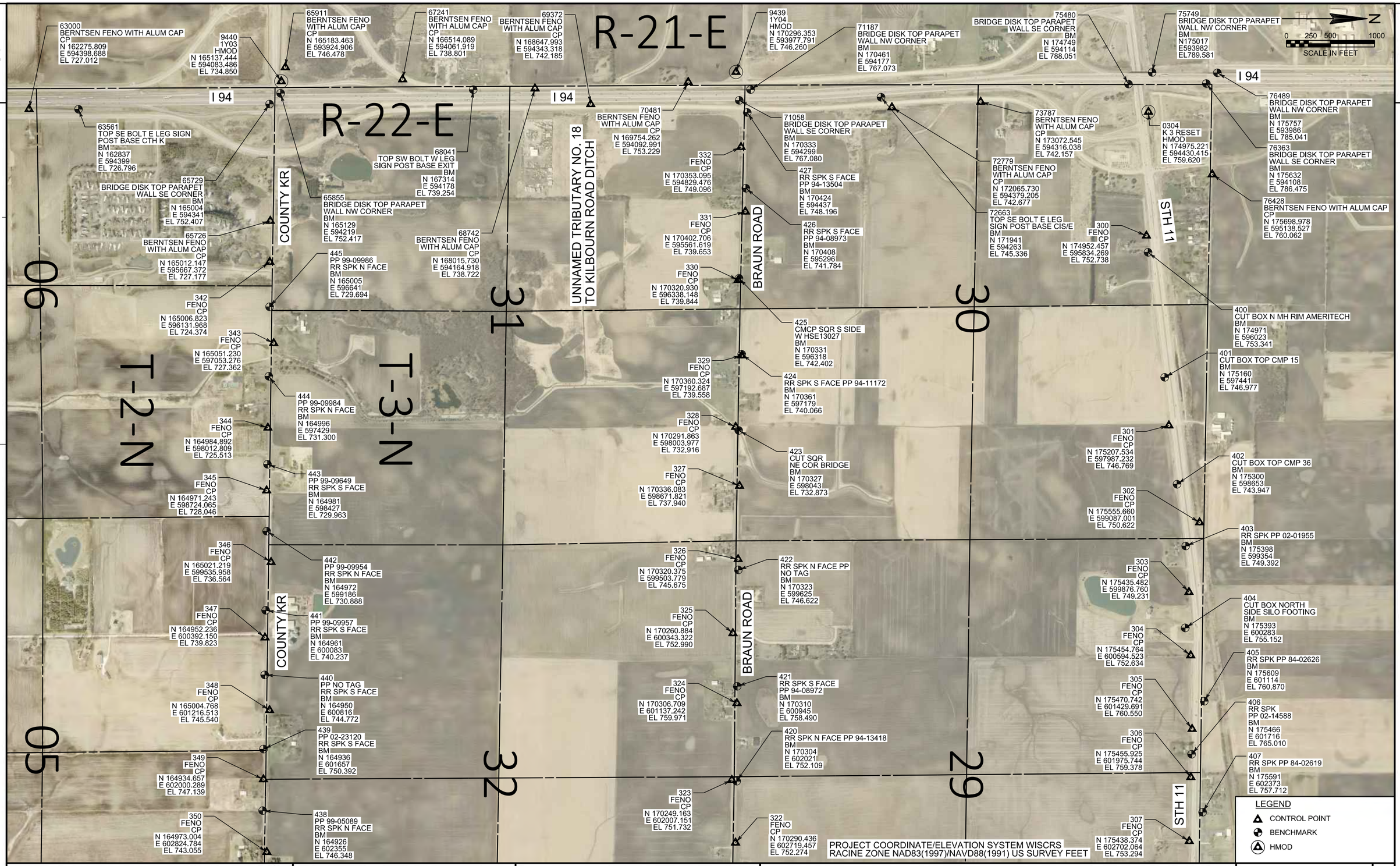
2) SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION AND SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.

3) "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.

4) ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.

5) BARRICADE STRIPES ARE TO BE SLOPED DOWNWARD IN THE DIRECTION OF TRAFFIC FLOW.

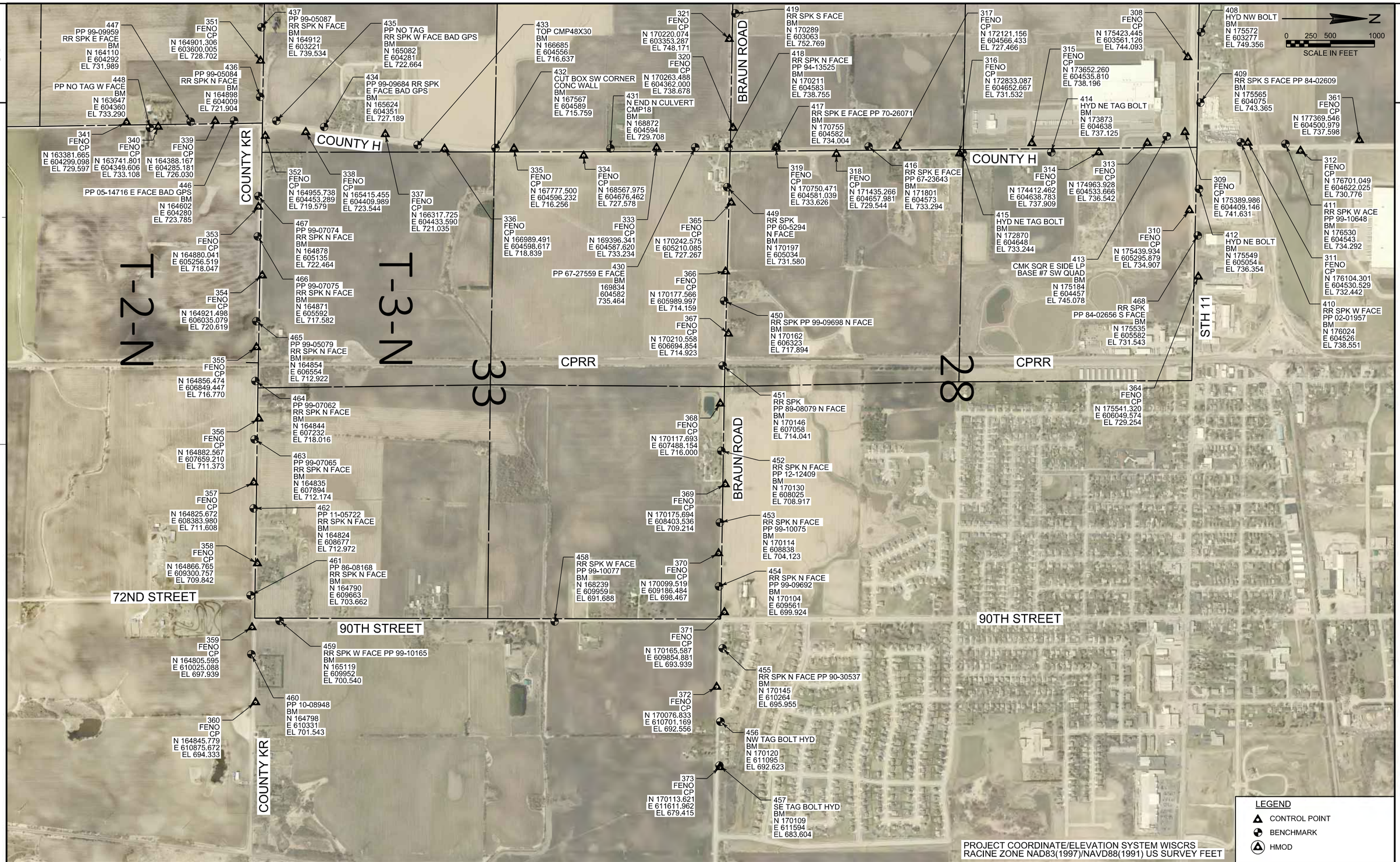
PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	TRAFFIC CONTROL STAGE 2	SHEET 226	E



PROJECT NO: FOXCONN DEVELOPMENT	HWY: VARIES	COUNTY: RACINE	CONTROL AND BENCHMARK OVERVIEW	SHEET 227	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\Displays\CONTROL AND BENCHMARK DISPLAY\CONTROL AND BENCHMARKS DISPLAY SHT 1.dgn PLOT DATE : 3/29/2018 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:1000

WISDOT/CADDS SHEET 42



PROJECT NO: FOXCONN DEVELOPMENT	HWY: VARIES	COUNTY: RACINE	CONTROL AND BENCHMARK OVERVIEW	SHEET 228	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\Displays\CONTROL AND BENCHMARK DISPLAY\CONTROL AND BENCHMARKS DISPLAY SHT 2.dgn PLOT DATE : 3/29/2018 PLOT BY : wwoldk PLOT NAME : PLOT SCALE : 1:1000

NOTE:
1) SEE CONTROL AND BENCHMARK OVERVIEW FOR BENCHMARKS
2) CURVE WVW-4SB AND CURVE WVW-5SB ARE FOR LAYOUT OF THE SB PGL.

STA 375+07.94 R/L CTH KR =
STA 499+96.05 R/L WISCONN VALLEY WAY

BEGIN PROJECT 2704-00-76

STA 501+54.47
X=596789.82
Y=165249.21

CTH KR

N00°44'36"E
237.68'

CURVE WVW-1

WISCONN VALLEY WAY

N28°20'42"W
1973.53'

CURVE WVW-2

R/L WISCONN VALLEY WAY

N00°30'5"W
841.59'

CURVE WVW-3

CURVE WVW-4SB
SEE NOTE 2

N01°17'34"W
626.87'

CURVE WVW-4

CONCRETE MONUMENT W/ SEWRPC ALUM CAP
Y=167731.39
X=594140.50

CAST IRON MONUMENT W/ BRASS CAP
Y=167689.57
X=596692.28

CAST IRON MONUMENT W/ SEWRPC BRASS CAP
Y=170399.04
X=594126.81

STA 556+88.12 R/L WISCONN VALLEY WAY =
STA 69BRW+48.70 BRAUN ROAD WEST

STA 556+40.12 R/L WISCONN VALLEY WAY =
STA 69BRE+48.70 BRAUN ROAD EAST

BRAUN RD

SECTION LINE S88°42'26"E 2538.26'

BM 427

BM 426

R/L BRAUN ROAD WEST
SEE ALIGNMENT PLAN
BRAUN ROAD FOR
ADDITIONAL
INFORMATION

R/L BRAUN ROAD EAST
SEE ALIGNMENT PLAN
BRAUN ROAD FOR
ADDITIONAL
INFORMATION

CAST IRON MONUMENT W/ BRASS CAP
Y=170341.77
X=596664.43

CURVE WVW-1	CURVE WVW-2	CURVE WVW-3	CURVE WVW-4	CURVE WVW-4SB
PC=502+33.74	PC=527+61.66	PC=541+33.92	PRC=547+86.98	PRC=STA 547+78.27, 24.00'LT
X=596790.85	X=595723.02	X=595584.78	X=595826.23	X=595802.98
Y=165328.47	Y=167598.00	Y=168948.47	Y=169536.78	Y=169547.43
PI=505+17.05	PI=530+32.34	PI=544+78.88	PI=551+16.92	PI=STA 550+89.42, 29.85'RT
X=596794.52	X=595594.51	X=595581.76	X=596060.06	X=596024.11
Y=165611.75	Y=167836.24	Y=169293.41	Y=169769.56	Y=169772.29
PT=507+88.13	PT=532+92.33	PRC=547+86.98	PT=554+14.35	PT=STA 554+01.14, 35.89'LT
X=596660.01	X=595592.14	X=595826.23	X=596067.50	X=596031.23
Y=165861.09	Y=168106.91	Y=169536.78	Y=170099.41	Y=170087.60
R=1092.0000	R=1092.0000	R=820.0000	R=820.0000	R=796.0000
DELTA=29°05'18" LT	DELTA=27°50'37" RT	DELTA=45°37'51" RT	DELTA=43°50'12" LT	DELTA=43°13'40" LT
D=5°14'49"	D=5°14'49"	D=6°59'14"	D=6°59'14"	D=7°11'53"
L=554.3931	L=530.6723	L=653.0531	L=627.3757	L=600.5571
T=283.3079	T=270.6843	T=344.9549	T=329.9418	T=315.3827
BK=N 0°44'36" E	BK=N 28°20'42" W	BK=N 0°30'05" W	BK=N 45°07'46" E	BK=N 44°31'15" E
AH=N 28°20'42" W	AH=N 0°30'05" W	AH=N 45°07'46" E	AH=N 1°17'34" E	AH=N 1°17'34" E

CAST IRON MONUMENT W/ SEWRPC BRASS CAP
Y=173044.02
X=594120.76

R/L BRAUN ROAD WEST
SEE ALIGNMENT PLAN
BRAUN ROAD FOR
ADDITIONAL
INFORMATION

BM 426

R/L BRAUN ROAD EAST
SEE ALIGNMENT PLAN
BRAUN ROAD FOR
ADDITIONAL
INFORMATION

CURVE WVW-6

WISCONN VALLEY WAY

N30°14'35"E
980.75'

R/L WISCONN VALLEY WAY

N23°56'25"W
592.57'

CURVE WVW-7

CURVE WVW-5SB
SEE NOTE 2

CURVE WVW-5

N01°17'34"W
626.87'

BM 425

CAST IRON MONUMENT MISSING BRASS CAP
Y=172998.34
X=596640.31

STA 606+79.13 R/L WISCONN VALLEY WAY =
STA 158+21.65 R/L WIS 11

END PROJECT 2704-00-76

STA 605+29.12
X=596458.57
Y=174935.05

N06°54'45"W
513.40'

BM 400

STH 11

BM 401

CURVE WVW-5	CURVE WVW-5SB	CURVE WVW-6	CURVE WVW-7
PC=560+41.23	PC=STA 560+67.55, 35.69'LT	PC=571+14.72	PC=591+28.16
X=596081.65	X=596046.23	X=595747.52	X=596296.18
Y=170726.13	Y=170752.40	Y=171735.48	Y=173575.87
PI=562+85.65	PI=STA 563+09.24, 3.37'RT	PI=576+73.32	PI=596+65.92
X=596087.16	X=596051.63	X=595520.85	X=596567.04
Y=170970.49	Y=170991.39	Y=172246.02	Y=174040.45
PT=565+22.15	PT=STA 565+50.29, 24.00'LT	PT=581+47.40	PT=601+65.73
X=595987.98	X=595954.62	X=595802.20	X=596502.31
Y=171193.88	Y=171209.87	Y=172728.60	Y=174574.31
R=1092.0000	R=1068.0000	R=1092.0000	R=1600.0000
DELTA=25°13'59" LT	DELTA=25°13'59" LT	DELTA=54°11'00" RT	DELTA=37°09'20" LT
D=5°14'49"	D=5°21'53"	D=5°14'49"	D=3°34'52"
L=480.9184	L=470.3488	L=1032.6793	L=1037.5772
T=244.4226	T=239.0507	T=558.6038	T=537.7678
BK=N 1°17'34" E	BK=N 1°17'34" E	BK=N 23°56'25" W	BK=N 30°14'35" E
AH=N 23°56'25" W	AH=N 23°56'25" W	AH=N 30°14'35" E	AH=N 6°54'45" W

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ALIGNMENT PLAN	SHEET 229	E

2

2

N

BEGIN CONSTRUCTION
STA 54BRW+36.47
X=594561.83
Y=170407.23

POB 53BRW+00.00
X= 594425.40
Y= 170410.31

54BRW 56BRW 58BRW 60BRW 62BRW 64B

2538.26'
S88°42'26"E

SECTION LINE

BRAUN ROAD

50BRE 52BRE 54BRE 56BRE 58BRE 60BRE 62BRE 64B

POB 50BRE+95.04
X= 594219.42
Y= 170366.95

STATION EQUATION
STA 54BRE+36.47 BACK =
STA 54BRE+36.41 AHEAD

EQUATION

BEGIN CONSTRUCTION
STA 54BRE+36.47 / A 54BRE+36.41
X=594560.75
Y=170359.24

T 3 N
25 30
36 31
R 22 E

POINT 3143
Y=170399.04
X=594126.81

PROJECT NO: 2704-00-76	HWY: BRAUN ROAD	COUNTY: RACINE	ALIGNMENT: BRAUN ROAD	SHEET 230	E

2

2

POINT 3119
Y=172998.34
X=596640.31

T 3 N
30
R 22 E

N

WISCONN VALLEY WAY

561
560
559
558
557

R/L WISCONN VALLEY WAY
SEE ALIGNMENT PLAN WISCONN VALLEY
WAY FOR ADDITIONAL INFORMATION

END CONSTRUCTION
STA 71BRW+75.05
X=596299.98
Y=170368.00

2656.68'
S00°31'13"E

1/4 LINE

VILLAGE OF MT PLEASANT

POINT 3132
Y=170341.77
X=596664.43

T 3 N
30
31
R 22 E

POE 75BRW+39.96
X= 596664.79
Y= 170359.77

BRW = 69BRW+48.70
WVW = 556WVW+88.12
X= 596073.68
Y= 170373.11

64BRW 66BRW 68BRW 70BRW 72BRW 74BRW 76BRW 78BRW

R/L BRAUN RD WB

S 88°42'26" E

S 89°02'31" E

2538.26' SECTION LINE
S88°42'26"E

2631.51' SECTION LINE
S89°02'31"E

BRAUN ROAD

S 88°42'26" E

N 88°47'18" E

64BRE 66BRE 68BRE 70BRE 72BRE 74BRE 76BRE 78BRE

R/L BRAUN RD EB

556
555
554
553
552

WISCONN VALLEY WAY

BRE = 69BRE+48.65
WVW = 556WVW+40.12
X= 596072.60
Y= 170325.12

END CONSTRUCTION
STA A 71BRE+75.00
X=596298.89
Y=170320.01

POE A 73BRE+75.69
X= 596499.53
Y= 170315.49

2652.35'
S00°36'06"E

1/4 LINE

VILLAGE OF MT PLEASANT

POINT 3145
Y=167689.57
X=596692.28

T 3 N
31
R 22 E

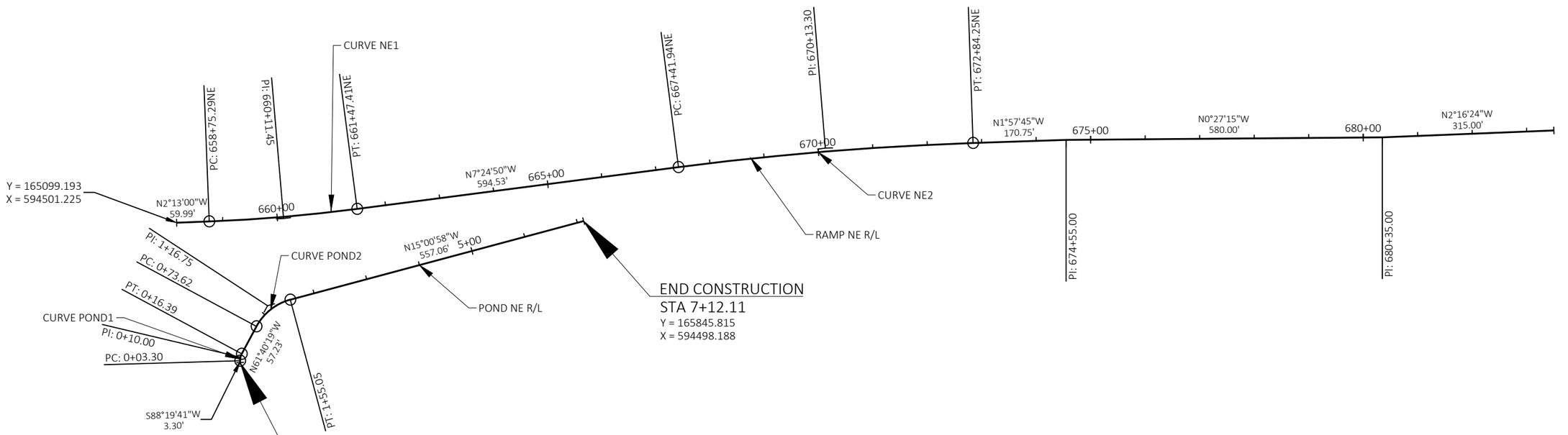
PROJECT NO: 2704-00-76	HWY: BRAUN ROAD	COUNTY: RACINE	ALIGNMENT: BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\Plots\BRAUN_ALIGN_PLAN_SHEET_2021_27.dgn 3:47:31 PM PLOT BY : jdepies PLOT NAME : PLOT SCALE : 100:1
WISDOT/CADDS SHEET 42

2

RAMP NE - CURVE DATA

CURVE NE1	CURVE NE2
PI STA = 660+11.45	PI STA = 670+13.30
Y = 165295.189	Y = 166288.855
X = 594493.638	X = 594364.340
DELTA = 5°11'49"	DELTA = 5°27'04"
D = 1°54'35"	D = 1°00'19"
T = 136.15'	T = 271.36'
L = 272.12'	L = 542.31'
R = 3000.00'	R = 5700.00'
PC STA = 658+75.29	PC STA = 667+41.94
PT STA = 661+47.41	PT STA = 672+84.25



POND NE - CURVE DATA

CURVE POND1	CURVE POND2
PI STA = 0+10.00	PI STA = 1+16.75
Y = 165215.329	Y = 165266.128
X = 594747.921	X = 594653.688
DELTA = 30°00'00"	DELTA = 46°39'21"
D = 229°10'59"	D = 57°17'45"
T = 6.70'	T = 43.12'
L = 13.09'	L = 81.43'
R = 25.00'	R = 100.00'
PC STA = 0+03.30	PC STA = 0+73.62
PT STA = 0+16.39	PT STA = 1+55.05

SEE "CONTROL AND BENCHMARK OVERVIEW" FOR CONTROL POINT AND BENCHMARK INFORMATION.

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	ALIGNMENT PLAN: POND NE	SHEET 232	E

2704-00-76

Line	Item	Item Description	Unit	Total	Qty
0002	108.4400	CPM Progress Schedule	EACH	1.000	1.000
0004	201.0105	Clearing	STA	47.000	47.000
0006	201.0205	Grubbing	STA	47.000	47.000
0008	203.0100	Removing Small Pipe Culverts	EACH	5.000	5.000
0010	203.0200	Removing Old Structure (station) 001. 269+65	LS	1.000	1.000
0012	204.0170	Removing Fence	LF	959.000	959.000
0014	204.0185	Removing Masonry	CY	6.000	6.000
0016	204.0280	Sealing Pipes	EACH	1.000	1.000
0018	204.9060.S	Removing (item description) 001. Bulkhead	EACH	2.000	2.000
0020	204.9090.S	Removing (item description) 001. Draintile	LF	4,375.000	4,375.000
0022	204.9090.S	Removing (item description) 002. 60-Inch Culvert Pipe	LF	16.000	16.000
0024	205.0100	Excavation Common	CY	228,316.000	228,316.000
0026	205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	TON	6,050.000	6,050.000
0028	213.0100	Finishing Roadway (project) 001. 2704-00-76	EACH	1.000	1.000
0030	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	36,058.000	36,058.000
0032	311.0110	Breaker Run	TON	86,131.000	86,131.000
0034	415.0100	Concrete Pavement 10-Inch	SY	77,860.000	77,860.000
0036	415.5110.S	Concrete Pavement Joint Layout	LS	1.000	1.000
0038	416.0610	Drilled Tie Bars	EACH	78.000	78.000
0040	416.0620	Drilled Dowel Bars	EACH	212.000	212.000
0042	416.1010	Concrete Surface Drains	CY	14.400	14.400
0044	520.8000	Concrete Collars for Pipe	EACH	4.000	4.000
0046	522.0118	Culvert Pipe Reinforced Concrete Class III 18-Inch	LF	38.000	38.000
0048	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	31.000	31.000
0050	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	1.000	1.000
0052	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	4.000	4.000
0054	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	3.000	3.000
0056	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	1.000	1.000
0058	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	1.000	1.000
0060	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	1.000	1.000
0062	522.1060	Apron Endwalls for Culvert Pipe Reinforced Concrete 60-Inch	EACH	3.000	3.000
0064	522.2629	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	EACH	1.000	1.000

2704-00-76

Line	Item	Item Description	Unit	Total	Qty
0066	522.2634	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 34x53-Inch	EACH	1.000	1.000
0068	522.2653	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 53x83-Inch	EACH	4.000	4.000
0070	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	48,326.000	48,326.000
0072	601.0555	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A	LF	1,293.000	1,293.000
0074	602.0410	Concrete Sidewalk 5-Inch	SF	14,338.000	14,338.000
0076	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	480.000	480.000
0078	606.0100	Riprap Light	CY	18.000	18.000
0080	606.0200	Riprap Medium	CY	689.500	689.500
0082	606.0300	Riprap Heavy	CY	140.000	140.000
0084	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	4,554.000	4,554.000
0086	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	6,079.000	6,079.000
0088	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	466.000	466.000
0090	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	4,244.000	4,244.000
0092	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	218.000	218.000
0094	608.0336	Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	LF	1,829.000	1,829.000
0096	608.0360	Storm Sewer Pipe Reinforced Concrete Class III 60-Inch	LF	2,912.000	2,912.000
0098	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	4,591.000	4,591.000
0100	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	183.000	183.000
0102	608.0424	Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	LF	725.000	725.000
0104	608.2334	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 34x53-Inch	LF	307.000	307.000
0106	608.2424	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 24x38-Inch	LF	1,329.000	1,329.000
0108	608.2429	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 29x45-Inch	LF	493.000	493.000
0110	608.2434	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 34x53-Inch	LF	920.000	920.000
0112	611.0530	Manhole Covers Type J	EACH	1.000	1.000
0114	611.0535	Manhole Covers Type J-Special	EACH	14.000	14.000
0116	611.0624	Inlet Covers Type H	EACH	321.000	321.000
0118	611.0627	Inlet Covers Type HM	EACH	5.000	5.000

2704-00-76

Line	Item	Item Description	Unit	Total	Qty
0120	611.0639	Inlet Covers Type H-S	EACH	30.000	30.000
0122	611.2004	Manholes 4-FT Diameter	EACH	6.000	6.000
0124	611.2005	Manholes 5-FT Diameter	EACH	39.000	39.000
0126	611.2006	Manholes 6-FT Diameter	EACH	28.000	28.000
0128	611.2007	Manholes 7-FT Diameter	EACH	9.000	9.000
0130	611.2008	Manholes 8-FT Diameter	EACH	13.000	13.000
0132	611.3003	Inlets 3-FT Diameter	EACH	9.000	9.000
0134	611.3004	Inlets 4-FT Diameter	EACH	248.000	248.000
0136	611.3230	Inlets 2x3-FT	EACH	29.000	29.000
0138	612.0700	Drain Tile Exploration	LF	10,000.000	10,000.000
0140	616.0206	Fence Chain Link 6-FT	LF	200.000	200.000
0142	616.0700.S	Fence Safety	LF	1,000.000	1,000.000
0144	619.1000	Mobilization	EACH	1.000	1.000
0146	620.0300	Concrete Median Sloped Nose	SF	1,470.000	1,470.000
0148	623.0200	Dust Control Surface Treatment	SY	107,494.000	107,494.000
0150	624.0100	Water	MGAL	6,289.000	6,289.000
0152	628.1104	Erosion Bales	EACH	300.000	300.000
0154	628.1504	Silt Fence	LF	29,130.000	29,130.000
0156	628.1520	Silt Fence Maintenance	LF	29,130.000	29,130.000
0158	628.1905	Mobilizations Erosion Control	EACH	6.000	6.000
0160	628.1910	Mobilizations Emergency Erosion Control	EACH	10.000	10.000
0162	628.2004	Erosion Mat Class I Type B	SY	191,500.000	191,500.000
0164	628.2008	Erosion Mat Urban Class I Type B	SY	8,155.000	8,155.000
0166	628.6510	Soil Stabilizer Type B	ACRE	3.750	3.750
0168	628.7005	Inlet Protection Type A	EACH	456.000	456.000
0170	628.7010	Inlet Protection Type B	EACH	11.000	11.000
0172	628.7015	Inlet Protection Type C	EACH	354.000	354.000
0174	628.7020	Inlet Protection Type D	EACH	101.000	101.000
0176	628.7504	Temporary Ditch Checks	LF	165.000	165.000
0178	628.7555	Culvert Pipe Checks	EACH	66.000	66.000
0180	628.7560	Tracking Pads	EACH	5.000	5.000
0182	628.7570	Rock Bags	EACH	125.000	125.000
0184	629.0205	Fertilizer Type A	CWT	18.000	18.000
0186	629.0210	Fertilizer Type B	CWT	111.000	111.000
0188	630.0140	Seeding Mixture No. 40	LB	3,450.000	3,450.000
0190	630.0175	Seeding Mixture No. 75	LB	55.000	55.000
0192	630.0200	Seeding Temporary	LB	3,450.000	3,450.000
0194	632.0101	Trees (species) (size) (root) 001. Quaking Aspen B&B 2-Inch Cal	EACH	39.000	39.000
0196	632.0101	Trees (species) (size) (root) 002. Swamp White B&B 2-	EACH	12.000	12.000

Line	Item	Item Description	Unit	Total	Qty
		Inch Cal			
0198	632.0101	Trees (species) (size) (root) 003. Red Maple B&B 2-Inch Cal	EACH	12.000	12.000
0200	632.0201	Shrubs (species) (size) (root) 001. Red Osier Dogwood Cont 24-Inch HT	EACH	39.000	39.000
0202	632.0201	Shrubs (species) (size) (root) 002. Grey Dogwood Cont 24-Inch HT	EACH	39.000	39.000
0204	632.0201	Shrubs (species) (size) (root) 003. Eastern White Cedar Cont 24-Inch HT	EACH	45.000	45.000
0206	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	33.000	33.000
0208	633.5200	Markers Culvert End	EACH	22.000	22.000
0210	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	81.000	81.000
0212	637.0620	Sign Flags Permanent Type II	EACH	8.000	8.000
0214	637.1220	Signs Type I Reflective SH	SF	188.000	188.000
0216	637.2210	Signs Type II Reflective H	SF	612.890	612.890
0218	637.2215	Signs Type II Reflective H Folding	SF	96.980	96.980
0220	637.2230	Signs Type II Reflective F	SF	124.000	124.000
0222	638.2602	Removing Signs Type II	EACH	4.000	4.000
0224	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0226	640.1303.S	Pond Liner Clay	CY	3,323.000	3,323.000
0228	641.8100	Overhead Sign Support (structure) 001. S-51-611	LS	1.000	1.000
0230	641.8100	Overhead Sign Support (structure) 002. S-51-612	LS	1.000	1.000
0232	641.8100	Overhead Sign Support (structure) 003. S-51-613	LS	1.000	1.000
0234	643.0300	Traffic Control Drums	DAY	3,350.000	3,350.000
0236	643.0420	Traffic Control Barricades Type III	DAY	2,500.000	2,500.000
0238	643.0705	Traffic Control Warning Lights Type A	DAY	5,000.000	5,000.000
0240	643.0715	Traffic Control Warning Lights Type C	DAY	200.000	200.000
0242	643.0900	Traffic Control Signs	DAY	1,400.000	1,400.000
0244	643.0920	Traffic Control Covering Signs Type II	EACH	10.000	10.000
0246	643.5000	Traffic Control	EACH	1.000	1.000
0248	645.0120	Geotextile Type HR	SY	1,495.000	1,495.000
0250	645.0130	Geotextile Type R	SY	223.200	223.200
0252	646.1020	Marking Line Epoxy 4-Inch	LF	42,449.000	42,449.000
0254	646.3020	Marking Line Epoxy 8-Inch	LF	1,620.000	1,620.000
0256	646.5020	Marking Arrow Epoxy	EACH	21.000	21.000
0258	646.5120	Marking Word Epoxy	EACH	13.000	13.000
0260	646.6120	Marking Stop Line Epoxy 18-Inch	LF	217.000	217.000
0262	646.6220	Marking Yield Line Epoxy 18-Inch	EACH	24.000	24.000
0264	646.6464	Cold Weather Marking Epoxy 4-Inch	LF	45,565.000	45,565.000
0266	646.6468	Cold Weather Marking Epoxy 8-Inch	LF	2,721.000	2,721.000
0268	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	951.000	951.000

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Line	Item	Item Description	Unit	Total	Qty
0270	646.8120	Marking Curb Epoxy	LF	129.000	129.000
0272	646.8220	Marking Island Nose Epoxy	EACH	4.000	4.000
0274	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	13,488.000	13,488.000
0276	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	4,108.000	4,108.000
0278	652.0800	Conduit Loop Detector	LF	3,182.000	3,182.000
0280	653.0135	Pull Boxes Steel 24x36-Inch	EACH	26.000	26.000
0282	653.0140	Pull Boxes Steel 24x42-Inch	EACH	22.000	22.000
0284	654.0101	Concrete Bases Type 1	EACH	11.000	11.000
0286	654.0105	Concrete Bases Type 5	EACH	53.000	53.000
0288	654.0110	Concrete Bases Type 10	EACH	6.000	6.000
0290	654.0113	Concrete Bases Type 13	EACH	2.000	2.000
0292	654.0217	Concrete Control Cabinet Bases Type 9 Special	EACH	1.000	1.000
0294	654.0230	Concrete Control Cabinet Bases Type L30	EACH	3.000	3.000
0296	655.0210	Cable Traffic Signal 3-14 AWG	LF	1,666.000	1,666.000
0298	655.0230	Cable Traffic Signal 5-14 AWG	LF	996.000	996.000
0300	655.0240	Cable Traffic Signal 7-14 AWG	LF	4,261.000	4,261.000
0302	655.0260	Cable Traffic Signal 12-14 AWG	LF	3,567.000	3,567.000
0304	655.0270	Cable Traffic Signal 15-14 AWG	LF	512.000	512.000
0306	655.0320	Cable Type UF 2-10 AWG Grounded	LF	1,453.000	1,453.000
0308	655.0510	Electrical Wire Traffic Signals 12 AWG	LF	10,926.000	10,926.000
0310	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	5,423.000	5,423.000
0312	655.0610	Electrical Wire Lighting 12 AWG	LF	1,152.000	1,152.000
0314	655.0700	Loop Detector Lead In Cable	LF	11,696.000	11,696.000
0316	655.0800	Loop Detector Wire	LF	12,094.000	12,094.000
0318	655.0900	Traffic Signal EVP Detector Cable	LF	1,666.000	1,666.000
0320	656.0200	Electrical Service Meter Breaker Pedestal (location) 301. Braun Road & Wisconn Valley Way	LS	1.000	1.000
0322	657.0100	Pedestal Bases	EACH	11.000	11.000
0324	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	53.000	53.000
0326	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	8.000	8.000
0328	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	2.000	2.000
0330	657.0430	Traffic Signal Standards Aluminum 10-FT	EACH	1.000	1.000
0332	658.0173	Traffic Signal Face 3S 12-Inch	EACH	26.000	26.000
0334	658.0174	Traffic Signal Face 4S 12-Inch	EACH	3.000	3.000
0336	658.0416	Pedestrian Signal Face 16-Inch	EACH	10.000	10.000
0338	658.0500	Pedestrian Push Buttons	EACH	13.000	13.000
0340	658.5069	Signal Mounting Hardware (location) 301. Braun Road & Wisconn Valley Way	LS	1.000	1.000
0342	659.1125	Luminaires Utility LED C	EACH	8.000	8.000
0344	670.0100	Field System Integrator 001. FTMS	LS	1.000	1.000

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Line	Item	Item Description	Unit	Total	Qty
0346	670.0200	ITS Documentation 001. FTMS	LS	1.000	1.000
0348	671.0122	Conduit HDPE 2-Duct 2-Inch	LF	10,555.000	10,555.000
0350	673.0105	Communication Vault Type 1	EACH	12.000	12.000
0352	673.0200	Tracer Wire Marker Posts	EACH	11.000	11.000
0354	677.0200	Install Camera Assembly	EACH	1.000	1.000
0356	678.0072	Install Fiber Optic Cable Outdoor Plant 72-CT	LF	32,815.000	32,815.000
0358	678.0300	Fiber Optic Splice	EACH	72.000	72.000
0360	678.0500	Communication System Testing	LS	1.000	1.000
0362	715.0415	Incentive Strength Concrete Pavement	DOL	23,358.000	23,358.000
0364	715.0710	Optimized Aggregate Gradation Incentive	DOL	73,578.000	73,578.000
0366	740.0440	Incentive IRI Ride	DOL	19,625.000	19,625.000
0368	SPV.0005	Special 001. Seed Bed Preparation	ACRE	1.600	1.600
0370	SPV.0005	Special 002. Seeding Special	ACRE	1.600	1.600
0372	SPV.0035	Special 001. EBS Excavation	CY	31,723.000	31,723.000
0374	SPV.0035	Special 002. EBS Backfill	CY	31,723.000	31,723.000
0376	SPV.0035	Special 003. Roadway Embankment	CY	246,090.000	246,090.000
0378	SPV.0060	Special 002. Temporary Stone Ditch Checks	EACH	20.000	20.000
0380	SPV.0060	Special 003. Sand Bags	EACH	150.000	150.000
0382	SPV.0060	Special 004. Temporary Sediment Traps	EACH	10.000	10.000
0384	SPV.0060	Special 005. Remove and Relocate Existing Apron Endwall 15-Inch	EACH	1.000	1.000
0386	SPV.0060	Special 006. Remove and Relocate Existing Apron Endwall 24-Inch	EACH	1.000	1.000
0388	SPV.0060	Special 008. Inlet Covers Beehive	EACH	9.000	9.000
0390	SPV.0060	Special 011. Manholes 9-FT	EACH	1.000	1.000
0392	SPV.0060	Special 012. Cover Plates Left In Place	EACH	2.000	2.000
0394	SPV.0060	Special 013. Connect Drain Tile	EACH	50.000	50.000
0396	SPV.0060	Special 020. Pond I Outlet Storm Sewer Structure	EACH	1.000	1.000
0398	SPV.0060	Special 021. Pond J Outlet Storm Sewer Structure	EACH	1.000	1.000
0400	SPV.0060	Special 022. Pond K Outlet Storm Sewer Structure	EACH	1.000	1.000
0402	SPV.0060	Special 023. Slip-In Check Valve for 12-Inch Inside Diameter Pipe	EACH	1.000	1.000
0404	SPV.0060	Special 024. Slip-In Check Valve for 24-Inch Inside Diameter Pipe	EACH	3.000	3.000
0406	SPV.0060	Special 025. Slip-In Check Valve for 30-Inch Inside Diameter Pipe	EACH	1.000	1.000
0408	SPV.0060	Special 026. Slip-In Check Valve for 15-Inch Inside Diameter Pipe	EACH	1.000	1.000
0410	SPV.0060	Special 050. Sign Support Special Mounting	EACH	3.000	3.000
0412	SPV.0060	Special 725. Bioretention Type A	EACH	5.000	5.000
0414	SPV.0060	Special 726. Bioretention Type B	EACH	4.000	4.000

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Line	Item	Item Description	Unit	Total	Qty
0416	SPV.0075	Special 001. Pavement Cleanup Project 2704-00-76	HRS	30.000	30.000
0418	SPV.0085	Special 001. Seed Mix Special	LB	350.000	350.000
0420	SPV.0090	Special 001. Heavy Duty Silt Fence	LF	2,885.000	2,885.000
0422	SPV.0090	Special 002. Pipe Underdrain 6-Inch Special	LF	16,010.000	16,010.000
0424	SPV.0090	Special 003. Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 53x83-In	LF	462.000	462.000
0426	SPV.0090	Special 004. Marking Line Contrast Epoxy 4-Inch	LF	4,738.000	4,738.000
0428	SPV.0090	Special 005. Marking Line Contrast Epoxy 8-Inch	LF	2,721.000	2,721.000
0430	SPV.0090	Special 006. Concrete Curb and Gutter 6-Inch Sloped 48-Inch Type A	LF	234.000	234.000
0432	SPV.0105	Special 001. Surveillance and Care for Seeding Special	LS	1.000	1.000
0434	SPV.0105	Special 007. Survey Project 2704-00-76	LS	1.000	1.000
0436	SPV.0105	Special 306. Trns & Install State Furn Traf Sig Cabinet Braun Rd & WVW	LS	1.000	1.000
0438	SPV.0105	Special 307. Trns & Install State Furn Radar Det Sys Braun Rd & WVW	LS	1.000	1.000
0440	SPV.0105	Special 308. Trns & Install State Furn EVP Det Heads w/Conf Beacons Braun Rd & WVW	LS	1.000	1.000
0442	SPV.0105	Special 309. Trans & Install Traf Sig, Monotube & Inter Lighting Mat Braun Rd & WVW	LS	1.000	1.000
0444	SPV.0105	Special 310. Trns & Install St Furn FO Cable Pigtail 8-Ct, CTH KR & 100 Ave/Foxconn Drwy	LS	1.000	1.000
0446	SPV.0105	Special 311. Trns & Install St Furn FO Cable Pigtail 8-Ct, CTH H & CTH KR	LS	1.000	1.000
0448	SPV.0105	Special 312. Trns & Install St Furn FO Cable Pigtail 8-Ct, Braun Rd & Foxconn Drwy	LS	1.000	1.000
0450	SPV.0105	Special 313. Trns & Install St Furn FO Cable Pigtail 8-Ct, CTH H & Braun Road	LS	1.000	1.000
0452	SPV.0170	Special 001. Removal and Disposal of Invasive Plant Species	STA	5.000	5.000
0454	SPV.0180	Special 001. Topsoil Special	SY	199,655.000	199,655.000
0456	SPV.0180	Special 002. Mulching Special	SY	7,744.000	7,744.000
0458	SPV.0180	Special 003. Topsoil Special for Prairie Seeding	SY	7,744.000	7,744.000

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CPM PROGRESS SCHEDULE

LOCATION	108.4400 CPM PROGRESS SCHEDULE EACH
PROJECT 2704-00-76	1
PROJECT 2704-00-76 TOTAL	1

CLEARING AND GRUBBING

STATION		STATION	OFFSET	LOCATION	201.0105* CLEARING STA	201.0205* GRUBBING STA
501+00	-	503+00	LT	WISCONN VALLEY WAY	2	2
501+00	-	503+00	RT	WISCONN VALLEY WAY	2	2
506+00	-	511+00	LT	WISCONN VALLEY WAY	5	5
506+00	-	512+00	RT	WISCONN VALLEY WAY	6	6
540+00	-	543+00	LT	WISCONN VALLEY WAY	3	3
542+00	-	543+00	RT	WISCONN VALLEY WAY	1	1
557+00	-	560+00	LT	WISCONN VALLEY WAY	3	3
557+00	-	560+00	RT	WISCONN VALLEY WAY	3	3
570+00	-	572+00	RT	WISCONN VALLEY WAY	2	2
571+00	-	572+00	LT	WISCONN VALLEY WAY	1	1
599+00	-	600+00	LT	WISCONN VALLEY WAY	1	1
599+00	-	600+00	RT	WISCONN VALLEY WAY	1	1
54BRE+00	-	64BRE+00	RT/LT	BRAUN ROAD EB	10	10
55BRW+00	-	56BRW+00	RT	BRAUN ROAD WB	1	1
PROJECT 2704-00-76 TOTAL					41	41

*NOTE: ADDITIONAL QUANTITIES SHOWN ELSEWHERE

REMOVING DRAINTILE

LOCATION	204.9090.S.001 REMOVING DRAINTILE LF
UNDISTRIBUTED	4,375
PROJECT 2704-00-76 TOTAL	4,375

FINISHING ROADWAY

LOCATION	213.0100 FINISHING ROADWAY PROJECT ID 2704-00-76 EACH
PROJECT 2704-00-76	1
PROJECT 2704-00-76 TOTAL	1

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\27040076_MQ.ppt PLOT DATE : 1/25/2019 4:04:05 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : 27040076_MQ1 PLOT SCALE : 1:1

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CLEARING AND GRUBBING

ROADWAY	STATION	TO	STATION	201.0105* CLEARING STA	201.0205* GRUBBING STA
RAMP NE	659+00	-	665+00	6	6
TOTALS				**6**	**6**

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN PLAN

REMOVING OLD STRUCTURE

ROADWAY	STATION	OFFSET	REMOVING OLD STRUCTURE (STA 659+65) 203.0200 LS	COMMENTS
RAMP NE	659+65	RT	1	ASSUMED 4' FOUNDATION
TOTAL			**1**	

NOTE: THIS ITEM IS FOR REMOVAL OF AN ABANDONED BUILDING FOUNDATION WITH AN ASSUMED DEPTH OF 4' AND LENGTH OF 140'.

REMOVING MASONRY

ROADWAY	STATION	OFFSET	204.0185 REMOVING MASONRY CY	COMMENTS
RAMP NE	665+35	RT	6	REMOVING TWIN 60-INCH CONCRETE MASONRY ENDWALL
TOTAL			**6**	

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REMOVING 60-INCH CULVERT PIPE

ROADWAY	STATION	OFFSET	204.9090.S.002 REMOVING 60-INCH CULVERT PIPE LF
RAMP NE	665+35	RT	16
TOTAL			**16**

AGGREGATE ITEMS

ROADWAY	STA	TO	STA	LOCATION	305.0120* BASE AGGREGATE DENSE 1 1/4-INCH TON	311.0110* BREAKER RUN TON
RAMP NE	659+66	-	662+00	CURB FOR RAMP NE	70	125
TOTALS					**70**	**125**

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN PLAN

CURB AND GUTTER ITEMS

ROADWAY	STATION	TO	STATION	LOCATION	416.0610 DRILLED TIE BARS EACH	SPV.0090.006 CONCRETE CURB AND GUTTER 6-INCH SLOPED 48-INCH TYPE A LF
RAMP NE	659+66	-	662+00	E SIDE OF RAMP NE	78	234
TOTALS					**78**	**234**

PIPE UNDERDRAIN ITEMS

ROADWAY	STATION	TO	STATION	SPV.0090.002* PIPE UNDERDRAIN 6-INCH SPECIAL LF
RAMP NE	659+71	-	660+71	100
TOTAL				**100**

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN PLAN

ALL ITEMS ARE CATEGORY 1000 UNLESS OTHERWISE NOTED

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REMOVING SMALL PIPE CULVERT

STATION	OFFSET	LOCATION	203.0100 REMOVING SMALL PIPE CULVERT EACH
62BRE+55	LT	BRAUN ROAD EB	1
63BRE+30	LT	BRAUN ROAD EB	1
60BRW+78	LT	BRAUN ROAD WB	1
69BRW+80	LT	BRAUN ROAD WB	1
70BRW+38	LT	BRAUN ROAD WB	1
PROJECT 2704-00-76 TOTAL			5

REMOVING FENCE

STATION	OFFSET	LOCATION	204.0170 REMOVING FENCE LF
54BRE+72 - 62BRE+45	RT	BRAUN ROAD EB	773
67BRW+20 - 68BRW+58	LT	BRAUN ROAD WB	165
68BRW+81 - 68BRW+92	LT	BRAUN ROAD WB	11
70BRW+05 - 70BRW+15	LT	BRAUN ROAD WB	10
PROJECT 2704-00-76 TOTAL			959

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EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL

STA	TO	STA	OFFSET	205.0501.S EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL TON
558+00	-	558+50	RT	200
600+30	-	601+35	LT/RT	5,850
PROJECT 2704-00-76 TOTAL				6,050

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

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ROADWAY	FROM / TO STATION	205.0100* EXCAVATION COMMON (1) (5) CUT (CY)	205.0100* EXCAVATION COMMON (1) (5) TOPSOIL REMOVAL (CY)	SPV.0035.001 EBS EXCAVATION (2) CY	SPV.0035.002 EBS BACKFILL CY	FILL (CY)	SPV.0035.003* ROADWAY EMBANKMENT (3) CY	MASS ORDINATE +/- (4)
WISCONN VALLEY WAY	501+54.47 to 556+04.11	28,174	39,700	--	--	95,046	134,746	-66872
WISCONN VALLEY WAY	557+24.12 to 605+29.12	15,449	31,200	--	--	43,733	74,933	-28284
WISCONN VALLEY WAY	UNDISTRIBUTED	--	--	28,631	28,631	--	--	--
WISCONN VALLEY WAY	POND I	12,472	1,042	--	--	888	1930	11,584
WISCONN VALLEY WAY	POND J	32,669	--	--	--	--	--	32,669
WISCONN VALLEY WAY	POND K	35,505	--	--	--	--	--	35,505
BRAUN ROAD	54+36 to A74+75	12,070	15,463	--	--	10,314	25,777	1,756
BRAUN ROAD	UNDISTRIBUTED	--	--	3,093	3,093	--	--	--
PROJECT 2704-00-76 TOTAL		223,744		31,723	31,723	149,981	237,386	-13,642

*NOTE: ADDITIONAL QUANTITIES SHOWN ELSEWHERE

1) Cut Volume Includes Concrete and Asphaltic Surface Material.

2) EBS Excavation to be backfilled with EBS Backfill. All EBS Excavation material is assumed to be wasted offsite.

3) Roadway Embankment = Unexpanded Fill + Topsoil Removal Replaced

4) The Mass Ordinate + or - quantity calculated by Division. A positive quantity indicates an excess of material within the division and a negative number indicates a shortage of material within the division. Mass Ordinate = Cut+Topsoil Removal-Embankment. The mass ordinate is for information purposes only as Common Excavation and Roadway Embankment are not balanced for quantity purposes and does not guarantee the quality of Common Excavation, and if it can be reused onsite.

5) Topsoil thickness estimated, refer to Topsoil Removal Construction Detail

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

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ROADWAY	FROM / TO STATION	205.0100* EXCAVATION COMMON (1) (5) CUT (6) (CY)	TOPSOIL REMOVAL (CY)	SPV.0035.001 EBS EXCAVATION (2) (CY)	SPV.0035.002 EBS BACKFILL (CY)	FILL (CY)	SPV.0035.003* ROADWAY EMBANKMENT (3) (CY)	MASS ORDINATE +/- (4)
POND NE	0+00 to 7+12	4,572	--	--	--	5,332	8,704	(4,132)
TOTALS		4,572	--	--	--	5,332	8,704	(4,132)

1) Cut volume includes concrete and asphaltic surface material.

2) EBS Excavation to be backfilled with EBS Backfill. All EBS Excavation material is assumed to be wasted offsite.

3) Roadway Embankment = Unexpanded Fill + Topsoil Removal Replaced.

4) The Mass Ordinate + or - quantity calculated by Division. A positive quantity indicates an excess of material within the division and a negative number indicates a shortage of material within the division. Mass Ordinate = Cut+Topsoil Removal-Embankment. The mass ordinate is for information purposes only as Common Excavation and Roadway Embankment are not balanced for quantity purposes and does not guarantee the quality of Common Excavation, and if it can be reused onsite.

5) Topsoil thickness estimated, refer to Topsoil Removal Construction Detail.

6) 1,200 CY of cut material assumed to be usable for topsoil at 6-inch depth (Outside of zone 1 and 2 special planting area). 3,372 CY assumed to be waste.

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN PLAN

ALL ITEMS ARE CATEGORY 1000 UNLESS OTHERWISE NOTED

AGGREGATE ITEMS

STA	TO	STA	OFFSET	ROADWAY	305.0120* BASE AGGREGATE DENSE 1 1/4 INCH TON	311.0110* BREAKER RUN TON
501+54	-	555+23	RT	WISCONN VALLEY WAY	7,034	16,884
501+54	-	555+23	LT	WISCONN VALLEY WAY	6,710	16,103
555+23	-	555+75	LT	WISCONN VALLEY WAY	6	23
555+23	-	556+00	RT	WISCONN VALLEY WAY	12	41
555+30	-	556+02	RT	WISCONN VALLEY WAY	92	83
555+30	-	556+04	RT	WISCONN VALLEY WAY	12	45
555+65	-	555+75	LT	WISCONN VALLEY WAY	4	7
555+76	-	556+00	RT	WISCONN VALLEY WAY	28	45
557+24	-	557+92	LT	WISCONN VALLEY WAY	12	43
557+27	-	557+92	LT	WISCONN VALLEY WAY	94	85
557+28	-	557+99	LT	WISCONN VALLEY WAY	8	31
557+28	-	557+99	LT	WISCONN VALLEY WAY	30	43
557+56	-	557+66	RT	WISCONN VALLEY WAY	4	7
557+56	-	557+99	RT	WISCONN VALLEY WAY	6	20
558+00	-	605+29	RT	WISCONN VALLEY WAY	5,940	14,254
558+00	-	605+29	LT	WISCONN VALLEY WAY	6,372	15,293
54BRE+36	-	71BRE+75	RT/LT	BRAUN ROAD	8,508	20,421
54BRE+36	-	56BRE+14	LT	BRAUN ROAD	82	119
54BRE+36	-	68BRE+48	LT	BRAUN ROAD	174	628
54BRE+36	-	68BRE+70	RT	BRAUN ROAD	90	326
54BRW+36	-	55BRW+42	RT	BRAUN ROAD	116	169
54BRW+36	-	55BRW+42	RT	BRAUN ROAD	16	56
54BRW+36	-	68BRW+64	LT	BRAUN ROAD	90	324
66BRE+49	-	68BRE+48	LT	BRAUN ROAD	92	133
67BRE+12	-	68BRE+85	LT	BRAUN ROAD	30	108
67BRE+12	-	68BRE+85	LT	BRAUN ROAD	28	40
68BRE+12	-	68BRE+86	RT	BRAUN ROAD	94	85
68BRE+12	-	68BRE+89	RT	BRAUN ROAD	12	47
69BRW+97	-	70BRW+69	LT	BRAUN ROAD	12	45
69BRW+99	-	70BRW+69	LT	BRAUN ROAD	86	77
70BRE+30	-	71BRE+75	RT	BRAUN ROAD	12	41
70BRW+01	-	71BRW+75	RT	BRAUN ROAD	64	94
70BRW+01	-	71BRW+75	RT	BRAUN ROAD	26	94
70BRW+12	-	71BRW+75	LT	BRAUN ROAD	12	41
70BRW+33	-	71BRW+75	RT	BRAUN ROAD	18	63
70BRW+33	-	71BRW+75	RT	BRAUN ROAD	62	88
PROJECT 2704-00-76 TOTAL					35,988	86,006

*NOTE: ADDITIONAL QUANTITIES SHOWN ELSEWHERE

NOTE: BASE AGGREGATE DENSE = 2 TON/CY
BREAKER RUN = 1.8 TON/CY

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

3

CONCRETE PAVEMENT

STATION	TO	STATION	OFFSET	LOCATION	415.0100 CONCRETE PAVEMENT 10-INCH SY
501+54	-	555+23	RT	WISCONN VALLEY WAY	15,600
501+54	-	555+23	LT	WISCONN VALLEY WAY	14,770
558+00	-	605+29	RT	WISCONN VALLEY WAY	13,090
558+00	-	605+29	LT	WISCONN VALLEY WAY	14,060
54BRE+36	-	71BRE+75	LT/RT	BRAUN ROAD	20,340
PROJECT 2704-00-76 TOTAL					77,860

CONCRETE PAVEMENT JOINT LAYOUT

STATION	LOCATION	415.5110.S CONCRETE PAVEMENT JOINT LAYOUT LS
PROJECT 2704-00-76	WISCONN VALLEY WAY/BRAUN RD	1
PROJECT 2704-00-76 TOTAL		1

DRILLED DOWEL BARS

STA	OFFSET	LOCATION	DRILLED DOWEL BARS 416.0620 EACH
501+54	RT	WISCONN VALLEY WAY	16
501+54	LT	WISCONN VALLEY WAY	29
605+29	RT	WISCONN VALLEY WAY	31
605+29	LT	WISCONN VALLEY WAY	23
54BRE+36	RT	BRAUN ROAD	25
54BRW+36	LT	BRAUN ROAD	32
71BRE+75	RT	BRAUN ROAD	24
71BRW+75	LT	BRAUN ROAD	32
PROJECT 2704-00-76 TOTAL			212

CONCRETE SURFACE DRAINS

STATION	OFFSET	LOCATION	416.1010 CONCRETE SURFACE DRAINS CY
530+66	RT	WISCONN VALLEY WAY	0.4
530+66	LT	WISCONN VALLEY WAY	0.4
531+78	RT	WISCONN VALLEY WAY	0.4
531+78	LT	WISCONN VALLEY WAY	0.4
532+88	RT	WISCONN VALLEY WAY	0.4
532+88	LT	WISCONN VALLEY WAY	0.4
533+99	RT	WISCONN VALLEY WAY	0.4
533+99	LT	WISCONN VALLEY WAY	0.4
535+10	RT	WISCONN VALLEY WAY	0.4
535+10	LT	WISCONN VALLEY WAY	0.4
536+22	RT	WISCONN VALLEY WAY	0.4
536+22	LT	WISCONN VALLEY WAY	0.4
537+33	RT	WISCONN VALLEY WAY	0.4
537+33	LT	WISCONN VALLEY WAY	0.4
538+45	RT	WISCONN VALLEY WAY	0.4
538+45	LT	WISCONN VALLEY WAY	0.4
539+57	RT	WISCONN VALLEY WAY	0.4
539+57	LT	WISCONN VALLEY WAY	0.4
540+69	RT	WISCONN VALLEY WAY	0.4
540+69	LT	WISCONN VALLEY WAY	0.4
564+30	RT	WISCONN VALLEY WAY	0.4
564+30	LT	WISCONN VALLEY WAY	0.4
565+35	RT	WISCONN VALLEY WAY	0.4
565+35	LT	WISCONN VALLEY WAY	0.4
566+40	RT	WISCONN VALLEY WAY	0.4
566+40	LT	WISCONN VALLEY WAY	0.4
567+45	RT	WISCONN VALLEY WAY	0.4
567+45	LT	WISCONN VALLEY WAY	0.4
568+50	RT	WISCONN VALLEY WAY	0.4
568+50	LT	WISCONN VALLEY WAY	0.4
569+55	RT	WISCONN VALLEY WAY	0.4
569+55	LT	WISCONN VALLEY WAY	0.4
570+60	RT	WISCONN VALLEY WAY	0.4
570+60	LT	WISCONN VALLEY WAY	0.4
571+65	RT	WISCONN VALLEY WAY	0.4
571+65	LT	WISCONN VALLEY WAY	0.4
PROJECT 2704-00-76 TOTAL			14.4

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

SEALING PIPES

ROADWAY	STATION	OFFSET	PIPE END	PIPE ID	204.0280 SEALING PIPES EACH
WISCONN VALLEY WAY					
	606+19	72' RT	UPSTREAM	P2004	1
TOTAL					1

CONCRETE COLLARS FOR PIPE

ROADWAY	STATION	OFFSET	PIPE ID	SIZE (IN)	520.8000* CONCRETE COLLARS FOR PIPE EACH
WISCONN VALLEY WAY					
	537+32	56' RT	PE1265	24	1
	538+54	56' RT	PE1289	24	1
TOTAL					2

*NOTE: ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CULVERT ITEMS

FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	INLET ELEV	DISCH ELEV	SLOPE	SPV.0090.003 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 53x83-INCH LF	522.2653 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 53x83-INCH EACH	633.5200* MARKERS CULVERT END EACH
WISCONN VALLEY WAY									
571+57	105' LT	570+64	106' RT	731.00	730.98	0.01%	231	2	2
571+69	105' LT	570+78	106' RT	731.00	730.98	0.01%	231	2	2
TOTALS							462	4	4

1. PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURES OR END OF ENDWALLS
2. ENDWALL ELEVATION / STATION / OFFSET ARE TO END CENTER OF ENDWALL

* NOTE: ADDITIONAL QUANTITIES SHOWN ELSEWHERE

APRON ENDWALLS

ROADWAY	PIPE ID	ENDWALL ID	ENDWALL ELEVATION	ENDWALL STATION	ENDWALL OFFSET	522.1012 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH EACH	522.1015* APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH EACH	522.1018* APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	522.1036 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH EACH	522.1060* APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 60-INCH EACH	522.2629 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 29x45-INCH EACH	522.2634 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 34x53-INCH EACH	633.5200* MARKERS CULVERT END EACH
WISCONN VALLEY WAY															
	P1020	1021	724.00	501+55	392' RT	1	--	--	--	--	--	--	--	--	1
	P1016	1017	726.00	502+63	126' RT	--	1	--	--	--	--	--	--	--	1
	P1218	1219	725.95	502+86	128' RT	--	--	--	--	--	--	--	1	--	1
	P1332	1333	729.00	543+50	141' LT	--	--	1	--	--	--	--	--	--	1
	P1646	1647	728.87	544+84	142' LT	--	--	--	--	--	--	--	--	1	1
	P1684	1685	732.96	570+53	104' RT	--	--	--	1	--	--	--	--	--	1
	P1708	1709	732.01	570+83	114' RT	--	1	--	--	--	--	--	--	--	1
	P1712	1713	731.01	571+80	131' LT	--	--	--	--	1	--	--	--	--	1
	P1746	1747	732.55	575+50	149' LT	--	1	--	--	--	--	--	--	--	1
	P1998	1999	732.72	578+09	146' LT	--	--	--	--	--	1	--	--	--	1
	P2024	2025	731.55	578+32	156' LT	--	--	--	--	--	--	1	--	--	1
TOTALS						1	3	1	1	1	1	1	1	1	11

NOTE
1) ENDWALL ELEVATION / STATION / OFFSET ARE TO END CENTER OF ENDWALL
*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

APRON ENDWALLS

STRUCTURE	STATION[1]	OFFSET[1]	LOCATION	522.1015* APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH EACH	522.1018* APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	522.1060* APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 60-INCH EACH	633.5200* MARKERS CULVERT END EACH	SPV.0060.005 REMOVE AND RELOCATE EXISTING APRON ENDWALL 15-INCH EACH	SPV.0060.006 REMOVE AND RELOCATE EXISTING APRON ENDWALL 24-INCH EACH
701	664+83	68.7' RT	RAMP-NE	--	--	1	1	--	--
702	665+42	72.6' RT	RAMP-NE	--	--	1	1	--	--
703	660+30	63.1' RT	RAMP-NE	--	--	--	1	--	1
705	659+71	67.4' RT	RAMP-NE	1	--	--	1	--	--
706	659+45	79.3' RT	RAMP-NE	--	--	--	1	1	--
707	659+18	270.3' RT	RAMP-NE	--	1	--	1	--	--
708	659+20	308.4' RT	RAMP-NE	--	1	--	1	--	--
			TOTALS	1	2	2	7	1	1

REMARKS

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN PLAN

[1] STATIONS AND OFFSETS ARE TO THE END OF PIPE

3

STORM SEWER/CULVERT PIPES

FROM	-	TO	LOCATION	520.8000* CONCRETE COLLARS FOR PIPE EACH	522.0118 CULVERT PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	522.0124 CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0315* STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0360* STORM SEWER PIPE REINFORCED CONCRETE CLASS III 60-INCH LF	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE
700	-	701	RAMP-NE	--	--	--	--	52	730.30	730.14	0.30%
EX.	-	703	RAMP-NE	1	--	31	--	--	EX.	730.66	1.45%
704	-	705	RAMP-NE	--	--	--	51	--	731.75	731.50	0.50%
EX.	-	706	RAMP-NE	--	--	--	27	--	EX.	729.44	1.00%
707	-	708	RAMP-NE	1	38	--	--	--	727.94	727.75	0.50%
			TOTALS	2	38	31	78	52			

* ADDITIONAL QUANTITIES LISTED ELSEWHERE IN PLAN

ALL ITEMS ARE CATEGORY 1000 UNLESS OTHERWISE NOTED

3

POND LINER CLAY

ROADWAY	LOCATION	640.1303.S* POND LINER CLAY CY
WISCONN VALLEY WAY		
	POND I	675
	POND J	1,186
	POND K	1,462
TOTAL		3,323

*COORDINATE WITH THE ENGINEER FOR THE LOCATION AND DEPTH OF CLAY LINER REQUIREMENT, IF SAND OR OTHER PERMEABLE SEAMS OR LAYERS ARE ENCOUNTERED DURING POND EXCAVATION, OR IF IN A FILL SECTION.

COVER PLATES LEFT IN PLACE

ROADWAY	STRUCTURE ID	STATION	OFFSET	FUTURE CASTING	SPV.0060.012 COVER PLATES LEFT IN PLACE EACH
WISCONN VALLEY WAY					
	1807	605+39	40' RT	HM	1
	1809	605+39	44' RT	HM	1
TOTAL					2

REMOVING BULKHEAD

ROADWAY	STATION	OFFSET	204.9060.S.001 REMOVING BULKHEAD EACH
WISCONN VALLEY WAY			
	537+32	56' RT	1
	538+54	56' RT	1
TOTAL			2

BIORETENTION

ROADWAY	STATION	OFFSET	BIORETENTION CELL SURFACE ELEVATION	SPV.0060.725 BIORETENTION TYPE A EACH	SPV.0060.726 BIORETENTION TYPE B EACH
WISCONN VALLEY WAY					
	531+88	0' RT	739.38	1	--
	534+09	0' RT	738.27	--	1
	536+32	0' RT	737.15	1	--
	538+55	0' RT	736.04	--	1
	540+79	0' RT	734.92	1	--
	565+45	0' RT	741.87	1	--
	567+55	0' RT	740.82	--	1
	569+65	0' RT	739.77	1	--
	571+75	0' RT	738.73	--	1
TOTALS				5	4

POND OUTLET STORM SEWER STRUCTURES

ROADWAY	STR. NO.	PIPE ID	STATION	OFFSET	SPV.0060.020 POND I OUTLET STORM SEWER STRUCTURE EACH	SPV.0060.021 POND J OUTLET STORM SEWER STRUCTURE EACH	SPV.0060.022 POND K OUTLET STORM SEWER STRUCTURE EACH
WISCONN VALLEY WAY							
	1019	P1020	501+76	313' RT	1	--	--
	1271	P1272	541+22	142' LT	--	1	--
	1711	P1712	573+74	171' LT	--	--	1
TOTALS					1	1	1

CHECK VALVES

ROADWAY	STATION	OFFSET	PIPE ID	SPV.0060.023 SLIP-IN CHECK VALVE FOR 12-INCH INSIDE DIAMETER PIPE EACH	SPV.0060.026 SLIP-IN CHECK VALVE FOR 15-INCH INSIDE DIAMETER PIPE EACH	SPV.0060.024 SLIP-IN CHECK VALVE FOR 24-INCH INSIDE DIAMETER PIPE EACH	SPV.0060.025 SLIP-IN CHECK VALVE FOR 30-INCH INSIDE DIAMETER PIPE EACH
WISCONN VALLEY WAY							
	501+75	316' RT	P1020	1	--	--	--
	537+27	50' RT	P1264	--	--	1	--
	538+58	49' RT	P1288	--	--	1	--
	570+26	50' RT	P1684	--	--	1	--
	571+34	50' RT	P1708	--	1	--	--
	573+72	170' LT	P1712	--	--	--	1
TOTAL				1	1	3	1

3

CONCRETE SIDEWALK

STA	TO	STA	OFFSET	LOCATION	602.0410 CONCRETE SIDEWALK 5-INCH SF
555+65	-	555+75	LT	WISCONN VALLEY WAY	75
555+76	-	556+00	RT	WISCONN VALLEY WAY	441
555+30	-	556+02	RT	WISCONN VALLEY WAY	934
555+57	-	555+74	RT	WISCONN VALLEY WAY	166
557+27	-	557+92	LT	WISCONN VALLEY WAY	947
557+28	-	557+99	LT	WISCONN VALLEY WAY	496
557+55	-	557+73	LT	WISCONN VALLEY WAY	164
557+56	-	557+66	RT	WISCONN VALLEY WAY	75
557+99	-	560+41	LT	WISCONN VALLEY WAY	1,693
54BRE+36	-	56BRE+14	LT	BRAUN ROAD	1,340
54BRW+36	-	55BRW+42	RT	BRAUN ROAD	1,894
66BRW+49	-	68BRW+48	RE	BRAUN ROAD	1,492
67BRE+59	-	68BRE+85	LT	BRAUN ROAD	442
68BRE+12	-	68BRE+86	RT	BRAUN ROAD	948
68BRE+36	-	68BRE+54	RT	BRAUN ROAD	164
69BRW+99	-	70BRW+69	LT	BRAUN ROAD	861
70BRE+33	-	71BRE+75	LT	BRAUN ROAD	996
70BRW+01	-	71BRW+75	RT	BRAUN ROAD	1,046
70BRW+29	-	71BRW+46	LT	BRAUN ROAD	164
PROJECT 2704-00-76 TOTAL					14,338

CONCRETE CURB & GUTTER

STA	TO	STA	OFFSET	LOCATION	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0555 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE A LF
501+54	-	555+23	RT	WISCONN VALLEY WAY	10,746	--
501+54	-	555+23	LT	WISCONN VALLEY WAY	10,733	--
554+06	-	555+23	RT	WISCONN VALLEY WAY	--	235
555+23	-	555+75	LT	WISCONN VALLEY WAY	54	--
555+23	-	555+75	LT	WISCONN VALLEY WAY	52	--
555+23	-	556+00	RT	WISCONN VALLEY WAY	--	77
555+23	-	556+00	RT	WISCONN VALLEY WAY	--	77
555+30	-	555+99	RT	WISCONN VALLEY WAY	69	--
555+30	-	556+02	RT	WISCONN VALLEY WAY	96	--
557+26	-	557+97	LT	WISCONN VALLEY WAY	96	--
557+28	-	557+99	LT	WISCONN VALLEY WAY	71	--
557+28	-	557+99	LT	WISCONN VALLEY WAY	71	--
557+29		557+97	LT	WISCONN VALLEY WAY	68	--
557+56	-	557+99	RT	WISCONN VALLEY WAY	43	--
557+56	-	558+28	RT	WISCONN VALLEY WAY	73	--
558+00	-	605+29	RT	WISCONN VALLEY WAY	9,475	--
558+00	-	605+29	LT	WISCONN VALLEY WAY	9,453	--
558+00	-	560+41	LT	WISCONN VALLEY WAY	484	--
54BRE+36	-	68BRE+48	LT	BRAUN RD	1,413	--
54BRE+36	-	68BRE+68	RT	BRAUN RD	1,463	--
54BRW+36		68BRW+48	RT	BRAUN RD	1,413	--
54BRW+36		68BRW+62	LT	BRAUN RD	1,461	--
54BRW+36	-	55BRW+42	RT	BRAUN RD	--	105
54BRW+36	-	55BRW+42	RT	BRAUN RD	--	105
67BRE+12	-	68BRE+85	LT	BRAUN RD	--	173
67BRE+12	-	68BRE+85	LT	BRAUN RD	--	173
68BRE+12	-	68BRE+84	RT	BRAUN RD	72	--
68BRE+12	-	68BRE+86	RT	BRAUN RD	96	--
69BRW+99	-	70BRW+69	LT	BRAUN RD	90	--
70BRE+28	-	71BRE+75	LT	BRAUN RD	147	--
70BRE+32	-	71BRE+75	RT	BRAUN RD	187	--
70BRW+01	-	71BRW+75	RT	BRAUN RD	--	174
70BRW+01	-	71BRW+75	RT	BRAUN RD	--	174
70BRW+02	-	70BRW+69	LT	BRAUN RD	67	--
70BRW+14	-	71BRW+75	LT	BRAUN RD	186	--
70BRW+28	-	71BRW+75	RT	BRAUN RD	147	--
PROJECT 2704-00-76 TOTAL					48,326	1,293

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

3

CURB RAMP DETECTABLE WARNING FIELDS

STATION	OFFSET	LOCATION	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF
555+68	RT	WISCONN VALLEY WAY	20
555+86	RT	WISCONN VALLEY WAY	20
555+91	RT	WISCONN VALLEY WAY	20
555+91	RT	WISCONN VALLEY WAY	20
555+91	RT	WISCONN VALLEY WAY	20
556+00	RT	WISCONN VALLEY WAY	20
557+27	LT	WISCONN VALLEY WAY	20
557+37	LT	WISCONN VALLEY WAY	20
557+37	LT	WISCONN VALLEY WAY	20
557+37	LT	WISCONN VALLEY WAY	20
557+37	LT	WISCONN VALLEY WAY	20
557+43	LT	WISCONN VALLEY WAY	20
557+60	LT	WISCONN VALLEY WAY	20
68BRE+49	RT	BRAUN ROAD	20
68BRE+68	RT	BRAUN ROAD	20
68BRE+74	RT	BRAUN ROAD	20
68BRE+74	LT	BRAUN ROAD	20
68BRE+74	LT	BRAUN ROAD	20
68BRE+85	RT	BRAUN ROAD	20
70BRW+00	LT	BRAUN ROAD	20
70BRW+12	RT	BRAUN ROAD	20
70BRW+12	RT	BRAUN ROAD	20
70BRW+12	LT	BRAUN ROAD	20
70BRW+16	LT	BRAUN ROAD	20
70BRW+34	LT	BRAUN ROAD	20
PROJECT 2704-00-76 TOTAL			480

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\27040076_MQ.ppt PLOT DATE : 12/20/2018 11:22:26 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : 27040076_MQ7 PLOT SCALE : 1:1

RIPRAP

STATION	OFFSET	LOCATION	606.0300 RIPRAP HEAVY CY	606.0200* RIPRAP MEDIUM CY	645.0120* GEOTEXTILE TYPE HR SY	606.0100 RIPRAP LIGHT CY	645.0130 GEOTEXTILE TYPE R SY	COMMENTS
501+56	RT	WISCONN VALLEY WAY	--	2.4	20	--	--	ENDWALL
502+63	RT	WISCONN VALLEY WAY	--	3.2	20	--	--	ENDWALL
502+87	RT	WISCONN VALLEY WAY	--	11.0	40	--	--	ENDWALL
530+66	RT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
530+66	LT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
531+78	RT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
531+78	LT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
532+88	RT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
532+88	LT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
533+99	RT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
533+99	LT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
535+10	RT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
535+10	LT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
536+22	RT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
536+22	LT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
537+33	RT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
537+33	LT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
538+45	RT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
538+45	LT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
539+57	RT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
539+57	LT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
540+69	RT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
540+69	LT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
543+50	LT	WISCONN VALLEY WAY	--	4.0	20.0	--	--	ENDWALL
544+86	LT	WISCONN VALLEY WAY	--	12.5	40.0	--	--	ENDWALL
564+30	RT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
564+30	LT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
565+35	RT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
565+35	LT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
566+40	RT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
566+40	LT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
567+45	RT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
567+45	LT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
568+50	RT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
568+50	LT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
569+55	RT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
569+55	LT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
570+60	RT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
570+60	LT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
570+70	RT	WISCONN VALLEY WAY	96	--	200.0	--	--	ENDWALL/SIDE SLOPES
571+65	RT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
571+65	LT	WISCONN VALLEY WAY	--	--	--	0.5	6.2	SURFACE DRAIN
571+70	LT	WISCONN VALLEY WAY	44	--	120.0	--	--	ENDWALL/SIDE SLOPES
575+50	LT	WISCONN VALLEY WAY	--	3.2	20.0	--	--	ENDWALL
578+09	LT	WISCONN VALLEY WAY	--	12.5	40.0	--	--	ENDWALL
578+36	LT	WISCONN VALLEY WAY	--	15.7	50	--	--	ENDWALL
PROJECT 2704-00-76 TOTAL			140	64.5	570	18.0	223.2	

*NOTE: ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
WISCONN VALLEY WAY	1001	502+04.90	51.1	LT	731.13	INLETS 4-FT DIAMETER	H-S	3.76	---	P1002	1001	1003	727.37	727.24	0.50	26	30	IV	15	---
WISCONN VALLEY WAY	1003	501+75.25	54.1	LT	731.22	INLETS 4-FT DIAMETER	H	3.98	---	P1004	1003	1005	727.24	727.06	0.50	36	40	IV	15	---
WISCONN VALLEY WAY	1005	501+75.00	10.0	LT	731.33	INLETS 4-FT DIAMETER	H	4.27	---	P1006	1005	1007	727.06	726.90	0.50	32	36	IV	15	---
WISCONN VALLEY WAY	1007	501+75.00	22.0	RT	731.57	INLETS 4-FT DIAMETER	H	4.67	---	P1008	1007	1009	726.90	726.80	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1009	501+75.00	50.0	RT	731.69	INLETS 4-FT DIAMETER	H	4.89	---	P1010	1009	1015	726.80	726.38	0.50	85	89	IV	15	---
WISCONN VALLEY WAY	1011	502+38.55	10.0	LT	730.96	INLETS 4-FT DIAMETER	H-S	4.28	---	P1012	1011	1013	726.68	726.48	0.50	39	43	IV	15	---
WISCONN VALLEY WAY	1013	502+62.55	22.0	RT	731.32	INLETS 4-FT DIAMETER	H-S	4.84	---	P1014	1013	1015	726.48	726.38	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1015	502+62.55	50.0	RT	731.32	INLETS 4-FT DIAMETER	H-S	4.94	---	P1016	1015	1017	726.38	726.03	0.50	70	72	IV	15	TO ENDWALL
WISCONN VALLEY WAY	1019	501+76.16	313.5	RT	727.50	POND OUTLET STRUCTURE	---	2.50	POND I OUTLET STORM SEWER STRUCTURE. SEE CONSTRUCTION DETAIL.	P1020	1019	1021	725.00	724.08	1.27	72	75	III	12	TO ENDWALL
WISCONN VALLEY WAY	1031	527+50.00	50.0	LT	741.12	INLETS 4-FT DIAMETER	H	5.79	---	P1032	1031	1033	735.33	735.23	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1033	527+50.00	22.0	LT	741.12	INLETS 4-FT DIAMETER	H	5.89	---	P1034	1033	1035	735.23	735.01	0.50	44	48	IV	15	---
WISCONN VALLEY WAY	1035	527+50.00	22.0	RT	741.12	INLETS 4-FT DIAMETER	H	6.11	---	P1036	1035	1037	735.01	734.92	0.50	19	24	IV	15	---
WISCONN VALLEY WAY	1037	527+50.00	50.0	RT	741.12	MANHOLES 5-FT DIAMETER	H	6.95	---	P1038	1037	1047	734.17	733.71	0.32	145	150	IV	24	---
WISCONN VALLEY WAY	1041	526+00.00	50.0	LT	740.37	INLETS 4-FT DIAMETER	H	5.50	---	P1042	1041	1043	734.87	734.77	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1043	526+00.00	22.0	LT	740.37	INLETS 4-FT DIAMETER	H	5.60	---	P1044	1043	1045	734.77	734.55	0.50	44	48	IV	15	---

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
WISCONN VALLEY WAY	1045	526+00.00	22.0	RT	740.37	INLETS 4-FT DIAMETER	H	5.82	---	P1046	1045	1047	734.55	734.46	0.50	19	24	IV	15	---
WISCONN VALLEY WAY	1047	526+00.00	50.0	RT	740.37	MANHOLES 5-FT DIAMETER	H	6.66	---	P1048	1047	1057	733.71	733.25	0.32	145	150	IV	24	---
WISCONN VALLEY WAY	1051	524+50.00	50.0	LT	739.62	INLETS 4-FT DIAMETER	H	5.20	---	P1052	1051	1053	734.42	734.32	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1053	524+50.00	22.0	LT	739.62	INLETS 4-FT DIAMETER	H	5.30	---	P1054	1053	1055	734.32	734.10	0.50	44	48	IV	15	---
WISCONN VALLEY WAY	1055	524+50.00	22.0	RT	739.62	INLETS 4-FT DIAMETER	H	5.52	---	P1056	1055	1057	734.10	734.00	0.50	19	24	IV	15	---
WISCONN VALLEY WAY	1057	524+50.00	50.0	RT	739.62	MANHOLES 5-FT DIAMETER	H	6.37	---	P1058	1057	1067	733.25	732.79	0.32	145	150	IV	24	---
WISCONN VALLEY WAY	1061	523+00.00	50.0	LT	738.87	INLETS 4-FT DIAMETER	H	4.92	---	P1062	1061	1063	733.95	733.85	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1063	523+00.00	22.0	LT	738.87	INLETS 4-FT DIAMETER	H	5.02	---	P1064	1063	1065	733.85	733.63	0.50	44	48	IV	15	---
WISCONN VALLEY WAY	1065	523+00.00	22.0	RT	738.87	INLETS 4-FT DIAMETER	H	5.24	---	P1066	1065	1067	733.63	733.54	0.50	19	24	IV	15	---
WISCONN VALLEY WAY	1067	523+00.00	50.0	RT	738.87	MANHOLES 5-FT DIAMETER	H	6.08	---	P1068	1067	1077	732.79	732.33	0.32	145	150	IV	24	---
WISCONN VALLEY WAY	1071	521+50.00	50.0	LT	738.12	INLETS 4-FT DIAMETER	H	4.62	---	P1072	1071	1073	733.50	733.40	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1073	521+50.00	22.0	LT	738.12	INLETS 4-FT DIAMETER	H	4.72	---	P1074	1073	1075	733.40	733.18	0.50	44	48	IV	15	---
WISCONN VALLEY WAY	1075	521+50.00	22.0	RT	738.12	INLETS 4-FT DIAMETER	H	4.94	---	P1076	1075	1077	733.18	733.08	0.50	19	24	IV	15	---
WISCONN VALLEY WAY	1077	521+50.00	50.0	RT	738.12	MANHOLES 5-FT DIAMETER	H	5.79	---	P1078	1077	1087	732.33	731.95	0.32	120	125	IV	24	---
WISCONN VALLEY WAY	1081	520+25.00	50.0	LT	737.49	INLETS 4-FT DIAMETER	H	4.38	---	P1082	1081	1083	733.11	733.01	0.50	20	24	IV	15	---

[1] DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B] PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C] PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
WISCONN VALLEY WAY	1083	520+25.00	22.0	LT	737.49	INLETS 4-FT DIAMETER	H	4.48	---	P1084	1083	1085	733.01	732.79	0.50	44	48	IV	15	---
WISCONN VALLEY WAY	1085	520+25.00	22.0	RT	737.49	INLETS 4-FT DIAMETER	H	4.70	---	P1086	1085	1087	732.79	732.70	0.50	18	23	IV	15	---
WISCONN VALLEY WAY	1087	520+25.00	50.0	RT	737.49	MANHOLES 6-FT DIAMETER	H	5.54	---	P1088	1087	1097	731.95	731.69	0.32	82	88	HE-IV	24x38	---
WISCONN VALLEY WAY	1091	519+37.40	50.0	LT	737.05	INLETS 4-FT DIAMETER	H	4.20	---	P1092	1091	1093	732.85	732.75	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1093	519+37.40	22.0	LT	737.05	INLETS 4-FT DIAMETER	H	4.30	---	P1094	1093	1095	732.75	732.53	0.50	44	48	IV	15	---
WISCONN VALLEY WAY	1095	519+37.40	22.0	RT	737.05	INLETS 4-FT DIAMETER	H	4.52	---	P1096	1095	1097	732.53	732.44	0.50	18	23	IV	15	---
WISCONN VALLEY WAY	1097	519+37.40	50.0	RT	737.05	MANHOLES 6-FT DIAMETER	H	5.36	---	P1098	1097	1107	731.69	731.15	0.32	169	175	HE-IV	24x38	---
WISCONN VALLEY WAY	E208	517+62.40	19.0	LT	736.18	INLETS 4-FT DIAMETER	H	3.87	---	P1102	1101	1103	732.31	732.21	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1103	517+62.40	22.0	LT	736.18	INLETS 4-FT DIAMETER	H	3.97	---	P1104	1103	1105	732.21	731.99	0.50	44	48	IV	15	---
WISCONN VALLEY WAY	1105	517+62.40	22.0	RT	736.18	INLETS 4-FT DIAMETER	H	4.19	---	P1106	1105	1107	731.99	731.90	0.50	18	23	IV	15	---
WISCONN VALLEY WAY	1107	517+62.40	50.0	RT	736.18	MANHOLES 6-FT DIAMETER	H	5.03	---	P1108	1107	1117	731.15	730.97	0.32	56	62	HE-IV	24x38	---
WISCONN VALLEY WAY	1111	517+00.00	50.0	LT	736.02	INLETS 4-FT DIAMETER	H-S	3.89	---	P1112	1111	1113	732.13	732.03	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1113	517+00.00	22.0	LT	736.02	INLETS 4-FT DIAMETER	H-S	3.99	---	P1114	1113	1115	732.03	731.81	0.50	44	48	IV	15	---
WISCONN VALLEY WAY	1115	517+00.00	22.0	RT	736.02	INLETS 4-FT DIAMETER	H-S	4.21	---	P1116	1115	1117	731.81	731.72	0.50	18	23	IV	15	---
WISCONN VALLEY WAY	1117	517+00.00	50.0	RT	736.02	MANHOLES 6-FT DIAMETER	H-S	5.05	---	P1118	1117	1127	730.97	730.75	0.32	69	75	HE-IV	24x38	---

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
WISCONN VALLEY WAY	1121	516+25.00	50.0	LT	736.24	INLETS 4-FT DIAMETER	H	4.33	---	P1122	1121	1123	731.91	731.81	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1123	516+25.00	22.0	LT	736.24	INLETS 4-FT DIAMETER	H	4.43	---	P1124	1123	1125	731.81	731.59	0.50	44	48	IV	15	---
WISCONN VALLEY WAY	1125	516+25.00	22.0	RT	736.24	INLETS 4-FT DIAMETER	H	4.65	---	P1126	1125	1127	731.59	731.50	0.50	18	23	IV	15	---
WISCONN VALLEY WAY	1127	516+25.00	50.0	RT	736.24	MANHOLES 6-FT DIAMETER	H	5.49	---	P1128	1127	1137	730.75	729.73	0.32	319	325	HE-IV	24x38	---
WISCONN VALLEY WAY	1131	513+00.00	50.0	LT	736.32	INLETS 4-FT DIAMETER	H	5.43	---	P1132	1131	1133	730.89	730.79	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1133	513+00.00	22.0	LT	736.32	INLETS 4-FT DIAMETER	H	5.53	---	P1134	1133	1135	730.79	730.57	0.50	44	48	IV	15	---
WISCONN VALLEY WAY	1135	513+00.00	22.0	RT	736.32	INLETS 4-FT DIAMETER	H	5.75	---	P1136	1135	1137	730.57	730.48	0.50	18	23	IV	15	---
WISCONN VALLEY WAY	1137	513+00.00	50.0	RT	736.32	MANHOLES 6-FT DIAMETER	H	6.59	---	P1138	1137	1147	729.73	729.27	0.32	144	150	HE-IV	24x38	---
WISCONN VALLEY WAY	1141	511+50.00	50.0	LT	735.57	INLETS 4-FT DIAMETER	H	5.14	---	P1142	1141	1143	730.43	730.33	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1143	511+50.00	22.0	LT	735.57	INLETS 4-FT DIAMETER	H	5.24	---	P1144	1143	1145	730.33	730.11	0.50	44	48	IV	15	---
WISCONN VALLEY WAY	1145	511+50.00	22.0	RT	735.57	INLETS 4-FT DIAMETER	H	5.46	---	P1146	1145	1147	730.11	730.02	0.50	18	23	IV	15	---
WISCONN VALLEY WAY	1147	511+50.00	50.0	RT	735.57	MANHOLES 6-FT DIAMETER	H	6.30	---	P1148	1147	1157	729.27	728.83	0.32	139	145	HE-IV	24x38	---
WISCONN VALLEY WAY	1151	510+05.00	50.0	LT	734.85	INLETS 4-FT DIAMETER	H	4.86	---	P1152	1151	1153	729.99	729.89	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1153	510+05.00	22.0	LT	734.85	INLETS 4-FT DIAMETER	H	4.96	---	P1154	1153	1155	729.89	729.67	0.50	44	48	IV	15	---
WISCONN VALLEY WAY	1155	510+05.00	22.0	RT	734.85	INLETS 4-FT DIAMETER	H	5.18	---	P1156	1155	1157	729.67	729.58	0.50	18	23	IV	15	---

[1] DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

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[B] PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C] PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
WISCONN VALLEY WAY	1157	510+05.00	50.0	RT	734.85	MANHOLES 6-FT DIAMETER	H	6.02	---	P1158	1157	1167	728.83	728.35	0.32	149	155	HE-IV	24x38	---
WISCONN VALLEY WAY	1161	508+50.00	50.0	LT	734.07	INLETS 4-FT DIAMETER	H	4.56	---	P1162	1161	1163	729.51	729.41	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1163	508+50.00	22.0	LT	734.07	INLETS 4-FT DIAMETER	H	4.66	---	P1164	1163	1165	729.41	729.19	0.50	44	48	IV	15	---
WISCONN VALLEY WAY	1165	508+50.00	22.0	RT	734.07	INLETS 4-FT DIAMETER	H	4.88	---	P1166	1165	1167	729.19	729.10	0.50	18	23	IV	15	---
WISCONN VALLEY WAY	1167	508+50.00	50.0	RT	734.07	MANHOLES 6-FT DIAMETER	H	5.72	---	P1168	1167	1177	728.35	727.88	0.32	148	154	HE-IV	24x38	---
WISCONN VALLEY WAY	1171	507+00.00	50.0	LT	733.32	INLETS 4-FT DIAMETER	H	4.28	---	P1172	1171	1173	729.04	728.94	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1173	507+00.00	22.0	LT	733.32	INLETS 4-FT DIAMETER	H	4.38	---	P1174	1173	1175	728.94	728.72	0.50	44	48	IV	15	---
WISCONN VALLEY WAY	1175	507+00.00	22.0	RT	733.32	INLETS 4-FT DIAMETER	H	4.60	---	P1176	1175	1177	728.72	728.63	0.50	18	23	IV	15	---
WISCONN VALLEY WAY	1177	507+00.00	50.0	RT	733.32	MANHOLES 6-FT DIAMETER	H	5.86	---	P1178	1177	1187	727.46	727.01	0.32	140	146	HE-IV	29x45	---
WISCONN VALLEY WAY	1181	505+60.00	50.0	LT	732.62	INLETS 4-FT DIAMETER	H	4.03	---	P1182	1181	1183	728.59	728.49	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1183	505+60.00	22.0	LT	732.62	INLETS 4-FT DIAMETER	H	4.13	---	P1184	1183	1185	728.49	728.27	0.50	44	48	IV	15	---
WISCONN VALLEY WAY	1185	505+60.00	22.0	RT	732.62	INLETS 4-FT DIAMETER	H	4.35	---	P1186	1185	1187	728.27	728.18	0.50	18	23	IV	15	---
WISCONN VALLEY WAY	1187	505+60.00	50.0	RT	732.62	MANHOLES 6-FT DIAMETER	H	5.61	---	P1188	1187	1197	727.01	726.66	0.32	109	115	HE-IV	29x45	---
WISCONN VALLEY WAY	1191	504+50.00	50.0	LT	732.07	INLETS 4-FT DIAMETER	H	3.83	---	P1192	1191	1193	728.24	728.14	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1193	504+50.00	22.0	LT	732.07	INLETS 4-FT DIAMETER	H	3.93	---	P1194	1193	1195	728.14	727.92	0.50	44	48	IV	15	---

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
WISCONN VALLEY WAY	1195	504+50.00	22.0	RT	732.07	INLETS 4-FT DIAMETER	H	4.15	---	P1196	1195	1197	727.92	727.83	0.50	18	23	IV	15	---
WISCONN VALLEY WAY	1197	504+50.00	50.0	RT	732.07	MANHOLES 6-FT DIAMETER	H	5.41	---	P1198	1197	1207	726.66	726.43	0.32	72	78	HE-IV	29x45	---
WISCONN VALLEY WAY	1201	503+75.00	50.0	LT	731.70	INLETS 4-FT DIAMETER	H	3.69	---	P1202	1201	1203	728.01	727.88	0.50	26	30	IV	15	---
WISCONN VALLEY WAY	1203	503+75.26	15.6	LT	731.57	INLETS 4-FT DIAMETER	H	3.69	---	P1204	1203	1205	727.88	727.69	0.50	38	42	IV	15	---
WISCONN VALLEY WAY	1205	503+75.00	22.0	RT	731.70	INLETS 4-FT DIAMETER	H	4.01	---	P1206	1205	1207	727.69	727.60	0.50	18	23	IV	15	---
WISCONN VALLEY WAY	1207	503+75.00	50.0	RT	731.70	MANHOLES 6-FT DIAMETER	H	5.27	---	P1208	1207	1217	726.43	726.20	0.32	72	78	HE-IV	29x45	---
WISCONN VALLEY WAY	1211	503+00.00	50.0	LT	731.33	INLETS 4-FT DIAMETER	H	3.55	---	P1212	1211	1213	727.78	727.62	0.50	32	36	IV	15	---
WISCONN VALLEY WAY	1213	503+00.00	10.0	LT	731.09	INLETS 4-FT DIAMETER	H	3.47	---	P1214	1213	1215	727.62	727.46	0.50	32	36	IV	15	---
WISCONN VALLEY WAY	1215	503+00.00	22.0	RT	731.37	INLETS 4-FT DIAMETER	H	3.91	---	P1216	1215	1217	727.46	727.37	0.50	17	23	IV	15	---
WISCONN VALLEY WAY	1217	503+00.00	50.0	RT	731.37	MANHOLES 7-FT DIAMETER	H	5.17	---	P1218	1217	1219	726.20	725.97	0.32	72	76	HE-IV	29x45	TO ENDWALL
WISCONN VALLEY WAY	1231	530+50.00	50.0	RT	741.12	INLETS 4-FT DIAMETER	H	7.63	---	P1232	1231	1239	733.49	732.86	0.50	127	131	III	24	---
WISCONN VALLEY WAY	1233	530+50.00	50.0	LT	741.12	INLETS 4-FT DIAMETER	H	6.11	---	P1234	1233	1235	735.01	734.31	0.50	139	143	III	15	---
WISCONN VALLEY WAY	1235	531+87.54	50.0	LT	740.42	INLETS 4-FT DIAMETER	H	6.11	---	P1236	1235	1237	734.31	734.09	0.50	45	48	III	15	---
WISCONN VALLEY WAY	1237	531+87.54	0.3	RT	740.13	INLETS 3-FT DIAMETER	BEEHIVE	6.04	---	P1238	1237	1239	734.09	733.87	0.50	43	47	III	15	---
WISCONN VALLEY WAY	1239	531+87.54	50.0	RT	740.42	MANHOLES 5-FT DIAMETER	H	7.56	---	P1240	1239	1241	732.86	732.35	0.50	103	108	III	24	---

[1] DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B] PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C] PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
WISCONN VALLEY WAY	1241	533+00.00	50.0	RT	739.87	INLETS 4-FT DIAMETER	H	7.52	---	P1242	1241	1249	732.35	731.83	0.50	105	109	III	24	---
WISCONN VALLEY WAY	1243	533+00.00	50.0	LT	739.87	INLETS 4-FT DIAMETER	H	6.13	---	P1244	1243	1245	733.74	733.21	0.50	105	109	III	15	---
WISCONN VALLEY WAY	1245	534+09.14	50.0	LT	739.32	INLETS 4-FT DIAMETER	H	6.11	---	P1246	1245	1247	733.21	732.99	0.50	45	48	III	15	---
WISCONN VALLEY WAY	1247	534+09.14	0.0	RT	739.02	INLETS 3-FT DIAMETER	BEEHIVE	6.03	---	P1248	1247	1249	732.99	732.77	0.50	44	48	III	15	---
WISCONN VALLEY WAY	1249	534+09.14	50.0	RT	739.32	MANHOLES 5-FT DIAMETER	H	7.49	---	P1250	1249	1251	731.83	731.30	0.50	107	111	III	24	---
WISCONN VALLEY WAY	1251	535+20.42	50.0	RT	738.76	INLETS 4-FT DIAMETER	H	7.46	---	P1252	1251	1261	731.30	730.77	0.50	107	111	III	24	---
WISCONN VALLEY WAY	1253	535+20.42	50.0	LT	738.76	INLETS 4-FT DIAMETER	H	6.12	---	P1254	1253	1257	732.64	732.10	0.50	107	111	III	15	---
WISCONN VALLEY WAY	1255	537+43.38	50.0	LT	737.65	INLETS 4-FT DIAMETER	H	5.01	---	P1256	1255	1257	732.64	732.10	0.50	108	112	IV	15	---
WISCONN VALLEY WAY	1257	536+31.70	50.0	LT	738.21	INLETS 4-FT DIAMETER	H	6.11	---	P1258	1257	1259	732.10	731.88	0.50	45	48	III	15	---
WISCONN VALLEY WAY	1259	536+31.70	0.0	RT	737.90	INLETS 3-FT DIAMETER	BEEHIVE	6.02	---	P1260	1259	1261	731.88	731.66	0.50	44	48	III	15	---
WISCONN VALLEY WAY	1261	536+31.70	50.0	RT	738.21	MANHOLES 5-FT DIAMETER	H	7.44	---	P1262	1261	1263	730.77	730.33	0.50	89	94	III	24	---
WISCONN VALLEY WAY	1263	537+25.41	50.0	RT	737.74	INLETS 4-FT DIAMETER	H	7.92	---	P1264	1263	PE1265	729.82	729.73	1.00	9	11	III	24	---
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WISCONN VALLEY WAY	1271	541+22.03	142.8	LT	730.94	POND OUTLET STRUCTURE	---	2.50	POND J OUTLET STORM SEWER STRUCTURE. SEE CONSTRUCTION DETAIL.	P1272	1271	1273	728.44	728.24	0.20	99	104	III	12	---
WISCONN VALLEY WAY	1273	540+79.38	50.0	LT	735.97	INLETS 4-FT DIAMETER	H	7.98	---	P1274	1273	1275	727.99	727.90	0.20	45	48	III	15	---

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

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[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
WISCONN VALLEY WAY	1275	540+79.38	0.0	RT	735.67	INLETS 3-FT DIAMETER	BEEHIVE	7.77	---	P1276	1275	1277	727.90	727.81	0.20	44	48	III	15	---
WISCONN VALLEY WAY	1277	540+79.38	50.0	RT	735.97	MANHOLES 5-FT DIAMETER	H	8.50	---	P1278	1277	1279	727.47	727.26	0.20	105	110	III	24	---
WISCONN VALLEY WAY	1279	539+69.69	50.0	RT	736.52	INLETS 4-FT DIAMETER	H	9.26	---	P1280	1279	1287	727.26	727.05	0.20	105	110	III	24	---
WISCONN VALLEY WAY	1281	539+69.69	50.0	LT	736.52	INLETS 4-FT DIAMETER	H	4.99	---	P1282	1281	1283	731.53	730.98	0.50	111	115	IV	15	---
WISCONN VALLEY WAY	1283	538+55.05	50.0	LT	737.09	INLETS 4-FT DIAMETER	H	6.11	---	P1284	1283	1285	730.98	730.76	0.50	45	48	III	15	---
WISCONN VALLEY WAY	1285	538+55.05	0.0	RT	736.79	INLETS 3-FT DIAMETER	BEEHIVE	6.03	---	P1286	1285	1287	730.76	730.54	0.50	44	48	III	15	---
WISCONN VALLEY WAY	1287	538+60.00	50.0	RT	737.07	MANHOLES 5-FT DIAMETER	H	10.02	---	P1288	1287	PE1289	727.05	727.04	0.20	8	10	III	24	---
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WISCONN VALLEY WAY	1301	541+75.00	50.0	LT	735.49	INLETS 4-FT DIAMETER	H	4.17	---	P1302	1301	1303	731.32	731.22	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1303	541+75.00	22.0	LT	735.49	INLETS 4-FT DIAMETER	H	4.27	---	P1304	1303	1305	731.22	731.00	0.50	44	48	IV	15	---
WISCONN VALLEY WAY	1305	541+75.00	22.0	RT	735.49	INLETS 4-FT DIAMETER	H	4.49	---	P1306	1305	1307	731.00	730.90	0.50	19	24	IV	15	---
WISCONN VALLEY WAY	1307	541+75.00	50.0	RT	735.49	MANHOLES 5-FT DIAMETER	H	4.59	---	P1308	1307	1311	730.90	730.45	0.50	89	94	IV	15	---
WISCONN VALLEY WAY	1309	542+75.00	22.0	RT	734.99	INLETS 4-FT DIAMETER	H	4.44	---	P1310	1309	1311	730.55	730.45	0.50	19	24	IV	15	---
WISCONN VALLEY WAY	1311	542+75.00	50.0	RT	734.99	MANHOLES 5-FT DIAMETER	H	4.54	---	P1312	1311	1317	730.45	730.12	0.50	66	71	IV	15	---
WISCONN VALLEY WAY	1313	544+25.00	22.0	RT	734.99	INLETS 4-FT DIAMETER	H	4.44	---	P1314	1313	1315	730.55	730.45	0.50	19	24	IV	15	---

[1] DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B] PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C] PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
WISCONN VALLEY WAY	1315	544+25.00	50.0	RT	734.99	MANHOLES 5-FT DIAMETER	H	4.54	---	P1316	1315	1317	730.45	730.12	0.50	66	71	IV	15	---
WISCONN VALLEY WAY	1317	543+50.00	50.0	RT	734.77	MANHOLES 5-FT DIAMETER	H-S	4.90	---	P1318	1317	1319	729.87	729.78	0.50	19	24	IV	18	---
WISCONN VALLEY WAY	1319	543+50.00	22.0	RT	734.77	INLETS 4-FT DIAMETER	H-S	4.99	---	P1320	1319	1321	729.78	729.56	0.50	44	48	IV	18	---
WISCONN VALLEY WAY	1321	543+50.00	22.0	LT	734.77	INLETS 4-FT DIAMETER	H-S	5.21	---	P1322	1321	1331	729.56	729.46	0.50	20	24	IV	18	---
WISCONN VALLEY WAY	1323	542+75.00	22.0	LT	734.99	INLETS 4-FT DIAMETER	H	4.80	---	P1324	1323	1325	730.19	730.09	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1325	542+75.00	50.0	LT	734.99	INLETS 4-FT DIAMETER	H	4.90	---	P1326	1325	1331	730.09	729.71	0.50	75	79	IV	15	---
WISCONN VALLEY WAY	1327	544+25.00	22.0	LT	734.99	INLETS 4-FT DIAMETER	H	4.80	---	P1328	1327	1329	730.19	730.09	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1329	544+25.00	50.0	LT	734.99	INLETS 4-FT DIAMETER	H	4.90	---	P1330	1329	1331	730.09	729.71	0.50	75	79	IV	15	---
WISCONN VALLEY WAY	1331	543+50.00	50.0	LT	734.77	INLETS 4-FT DIAMETER	H-S	5.31	---	P1332	1331	1333	729.46	729.03	0.50	85	87	IV	18	TO ENDWALL
WISCONN VALLEY WAY	1341	561+50.05	59.7	LT	743.61	INLETS 4-FT DIAMETER	H	5.80	---	P1342	1341	1343	737.81	737.63	0.50	35	39	IV	15	---
WISCONN VALLEY WAY	1343	561+50.29	16.7	LT	743.31	INLETS 4-FT DIAMETER	H	5.68	---	P1344	1343	1345	737.63	737.44	0.50	39	43	IV	15	---
WISCONN VALLEY WAY	1345	561+50.00	22.0	RT	743.61	INLETS 4-FT DIAMETER	H	6.17	---	P1346	1345	1347	737.44	737.35	0.50	19	24	III	15	---
WISCONN VALLEY WAY	1347	561+50.00	50.0	RT	743.61	MANHOLES 5-FT DIAMETER	H	7.01	---	P1348	1347	1357	736.60	736.10	0.50	99	104	III	24	---
WISCONN VALLEY WAY	1351	560+48.52	68.4	LT	742.98	INLETS 4-FT DIAMETER	H	5.63	---	P1352	1351	1353	737.35	737.04	0.50	62	66	IV	15	---
WISCONN VALLEY WAY	1353	560+48.24	2.0	RT	742.39	INLETS 4-FT DIAMETER	H	5.35	---	P1354	1353	1355	737.04	736.94	0.50	20	24	IV	15	---

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

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[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

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STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
WISCONN VALLEY WAY	1355	560+50.00	22.0	RT	743.11	INLETS 4-FT DIAMETER	H	6.17	---	P1356	1355	1357	736.94	736.85	0.50	19	24	III	15	---
WISCONN VALLEY WAY	1357	560+50.00	50.0	RT	743.11	MANHOLES 5-FT DIAMETER	H	7.01	---	P1358	1357	1369	736.10	735.60	0.50	100	105	III	24	---
WISCONN VALLEY WAY	1361	559+45.00	74.0	LT	742.35	INLETS 4-FT DIAMETER	H	5.49	---	P1362	1361	1363	736.86	736.70	0.50	32	36	IV	15	---
WISCONN VALLEY WAY	1363	559+45.00	34.0	LT	742.59	INLETS 4-FT DIAMETER	H	5.89	---	P1364	1363	1365	736.70	736.54	0.50	32	36	IV	15	---
WISCONN VALLEY WAY	1365	559+45.00	2.0	RT	741.87	INLETS 4-FT DIAMETER	H	5.33	---	P1366	1365	1367	736.54	736.44	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1367	559+45.00	22.0	RT	742.59	INLETS 4-FT DIAMETER	H	6.15	---	P1368	1367	1369	736.44	736.35	0.50	19	24	III	15	---
WISCONN VALLEY WAY	1369	559+45.00	50.0	RT	742.59	MANHOLES 5-FT DIAMETER	H	6.99	---	P1370	1369	1393	735.60	735.04	0.50	111	116	III	24	---
WISCONN VALLEY WAY	1371	558+00.58	85.9	LT	741.59	INLETS 4-FT DIAMETER	H-S	5.15	---	P1371A	1371	1372	736.44	736.31	0.50	26	30	IV	15	---
WISCONN VALLEY WAY	1372	558+29.43	78.6	LT	741.79	INLETS 4-FT DIAMETER	H	5.48	---	P1372A	1372	1375	736.31	736.13	0.50	36	40	IV	15	---
WISCONN VALLEY WAY	1373	558+50.00	34.0	LT	742.14	INLETS 4-FT DIAMETER	H	5.93	---	P1374	1373	1375	736.21	736.13	0.50	16	21	IV	15	---
WISCONN VALLEY WAY	1375	558+29.05	34.0	LT	742.12	MANHOLES 5-FT DIAMETER	H-S	5.99	---	P1376	1375	1379	736.13	736.09	0.50	8	13	IV	15	---
WISCONN VALLEY WAY	1377	558+50.00	26.0	LT	741.90	INLETS 4-FT DIAMETER	H	5.73	---	P1378	1377	1379	736.17	736.09	0.50	17	21	IV	15	---
WISCONN VALLEY WAY	1379	558+29.05	26.0	LT	741.88	INLETS 4-FT DIAMETER	H-S	5.79	---	P1380	1379	1383	736.09	735.99	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1381	558+50.00	2.0	RT	741.42	INLETS 4-FT DIAMETER	H	5.35	---	P1382	1381	1383	736.07	735.99	0.50	17	21	IV	15	---
WISCONN VALLEY WAY	1383	558+29.05	2.0	RT	741.40	INLETS 4-FT DIAMETER	H-S	5.41	---	P1384	1383	1387	735.99	735.89	0.50	20	24	IV	15	---

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
WISCONN VALLEY WAY	1385	558+50.00	22.0	RT	742.23	INLETS 4-FT DIAMETER	H-S	6.26	---	P1386	1385	1387	735.97	735.89	0.50	17	21	III	15	---
WISCONN VALLEY WAY	1387	558+29.05	22.0	RT	742.27	INLETS 4-FT DIAMETER	H	6.38	---	P1388	1387	1393	735.89	735.79	0.50	20	24	III	15	---
WISCONN VALLEY WAY	1389	558+50.00	58.6	RT	742.06	INLETS 4-FT DIAMETER	H	6.14	---	P1390	1389	1391	735.92	735.83	0.50	17	21	III	15	---
WISCONN VALLEY WAY	1391	558+29.05	61.5	RT	742.04	INLETS 4-FT DIAMETER	H-S	6.21	---	P1392	1391	1393	735.83	735.79	0.50	7	12	III	15	---
WISCONN VALLEY WAY	1393	558+28.77	48.0	RT	742.35	MANHOLES 5-FT DIAMETER	J-SPECIAL	7.31	---	P1394	1393	P1400	735.04	734.67	0.50	74	76	III	24	---
---	---	---	---	---	---	---	---	--	---	P1400	P1394	1411	734.67	733.66	0.50	202	206	III	24	---
BRAUN ROAD	1401	70BRE+25.95	86.8	LT	743.92	INLETS 2x3-FT	H	5.16	---	P1402	1401	1403	738.76	738.58	0.51	35	38	III	15	---
BRAUN ROAD	1403	70BRE+28.50	46.0	LT	743.79	INLETS 2x3-FT	H	5.21	---	P1404	1403	1405	738.58	738.54	0.50	8	11	III	15	---
BRAUN ROAD	1405	70BRE+28.42	38.0	LT	743.91	INLETS 2x3-FT	H	5.37	---	P1406	1405	1407	738.54	738.41	0.57	23	27	III	15	---
BRAUN ROAD	1407	70BRE+41.61	10.0	LT	743.97	MANHOLES 5-FT DIAMETER	H	5.56	---	P1490	1407	1491	738.41	738.36	0.62	8	12	III	15	---
BRAUN ROAD	1409	70BRE+59.96	55.8	RT	744.15	MANHOLES 4-FT DIAMETER	H	6.06	---	P1410	1409	1494	738.09	737.80	0.50	58	62	III	15	---
BRAUN ROAD	1411	70BRE+00.09	93.6	RT	742.76	MANHOLES 7-FT DIAMETER	H	742.76	---	P1550	1411	1567	731.79	731.57	0.25	90	97	HE-III	34x53	---
BRAUN ROAD	1413	68BRE+21.70	65.9	RT	741.54	MANHOLES 6-FT DIAMETER	H	8.81	---	P1412	1413	1411	732.73	732.04	0.41	170	177	III	24	---
BRAUN ROAD	1415	68BRE+21.06	39.7	RT	742.10	INLETS 2x3-FT	H	4.63	---	P1414	1415	1413	737.47	737.35	0.60	20	24	III	15	---
BRAUN ROAD	1417	67BRE+19.55	50.0	RT	741.13	MANHOLES 6-FT DIAMETER	H	8.01	---	P1416	1417	1413	733.12	732.73	0.40	98	104	III	24	---

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\030203_ss_DT.ppt PLOT DATE : 11/28/2018 3:46:49 PM PLOT BY : BRIAN C. ADAMS PLOT NAME : 030203_ss_DT11 PLOT SCALE : 1:1

STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
BRAUN ROAD	1419	67BRE+19.93	2.0	LT	742.13	INLETS 2x3-FT	H	5.50	---	P1418	1419	1417	736.63	736.40	0.52	44	48	III	15	---
BRAUN ROAD	1421	67BRE+20.14	22.0	LT	742.13	INLETS 2x3-FT	H	5.40	---	P1420	1421	1419	736.73	736.63	0.50	20	22	III	15	---
BRAUN ROAD	1423	67BRE+19.94	38.0	LT	741.87	INLETS 2x3-FT	H	5.08	---	P1422	1423	1421	736.79	736.73	0.50	12	14	III	15	---
BRAUN ROAD	1425	66BRE+01.79	50.0	RT	740.48	MANHOLES 6-FT DIAMETER	H	6.91	---	P1424	1425	1417	733.57	733.12	0.40	112	118	III	24	---
BRAUN ROAD	1427	66BRE+01.71	27.1	LT	740.94	INLETS 2x3-FT	H	4.83	---	P1426	1427	1425	736.11	735.77	0.49	69	73	III	15	---
BRAUN ROAD	1429	66BRE+01.69	46.0	LT	741.44	INLETS 2x3-FT	H	5.23	---	P1428	1429	1427	736.21	736.11	0.53	19	21	III	15	---
BRAUN ROAD	1431	66BRE+01.69	86.0	LT	740.71	INLETS 2x3-FT	H	4.32	---	P1430	1431	1429	736.39	736.21	0.50	36	38	III	15	---
BRAUN ROAD	1433	64BRE+20.01	38.0	RT	739.78	MANHOLES 5-FT DIAMETER	H	5.37	---	P1432	1433	1425	734.41	733.57	0.47	177	182	III	24	---
BRAUN ROAD	1435	64BRE+00.00	38.0	RT	739.75	MANHOLES 6-FT DIAMETER	H-S	5.27	---	P1434	1435	1433	734.48	734.41	0.47	15	20	III	24	---
BRAUN ROAD	1437	64BRE+25.00	2.0	LT	740.58	INLETS 2x3-FT	H-S	5.17	---	P1438	1437	1439	735.41	735.31	0.40	25	29	III	15	---
BRAUN ROAD	1439	63BRE+96.11	2.0	LT	740.47	MANHOLES 5-FT DIAMETER	H	5.16	---	P1436	1439	1435	735.31	735.15	0.55	29	35	III	15	---
BRAUN ROAD	1441	63BRE+74.99	46.0	LT	740.34	MANHOLES 5-FT DIAMETER	H-S	4.83	---	P1440	1441	1439	735.51	735.31	0.42	48	53	III	15	---
BRAUN ROAD	1443	63BRE+54.98	46.0	LT	740.37	INLETS 2x3-FT	H	4.78	---	P1442	1443	1441	735.59	735.51	0.50	16	20	III	15	---
BRAUN ROAD	1445	63BRE+75.00	86.0	LT	739.61	MANHOLES 5-FT DIAMETER	H-S	3.93	---	P1444	1445	1441	735.68	735.51	0.57	30	35	IV	15	---
BRAUN ROAD	1447	63BRE+94.99	86.0	LT	739.64	INLETS 2x3-FT	H	3.88	---	P1446	1447	1445	735.76	735.68	0.50	16	20	IV	15	---

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
BRAUN ROAD	1449	63BRE+54.99	86.0	LT	739.65	INLETS 2x3-FT	H	3.89	---	P1448	1449	1445	735.76	735.68	0.50	16	20	IV	15	---
BRAUN ROAD	1451	63BRE+79.99	38.0	RT	739.77	MANHOLES 5-FT DIAMETER	H	5.22	---	P1450	1451	1435	734.55	734.48	0.47	15	20	III	24	---
BRAUN ROAD	1453	61BRE+99.45	38.0	RT	741.47	MANHOLES 5-FT DIAMETER	H	6.19	---	P1452	1453	1451	735.28	734.55	0.42	175	180	III	24	---
BRAUN ROAD	1455	61BRE+99.74	2.0	LT	742.18	INLETS 2x3-FT	H	5.50	---	P1454	1455	1453	736.68	736.50	0.55	33	37	III	15	---
BRAUN ROAD	1457	61BRE+99.73	46.0	LT	741.69	INLETS 2x3-FT	H	4.79	---	P1456	1457	1455	736.90	736.68	0.50	44	46	III	15	---
BRAUN ROAD	1459	61BRE+99.74	86.0	LT	740.97	INLETS 2x3-FT	H	3.89	---	P1458	1459	1457	737.08	736.90	0.50	36	38	III	15	---
BRAUN ROAD	1461	59BRE+99.62	38.0	RT	744.20	MANHOLES 5-FT DIAMETER	H	6.33	---	P1460	1461	1453	737.87	735.28	1.33	195	200	III	24	---
BRAUN ROAD	1463	59BRE+99.75	2.0	LT	744.92	INLETS 2x3-FT	H	5.60	---	P1462	1463	1461	739.32	739.15	0.52	33	37	III	15	---
BRAUN ROAD	1465	59BRE+99.75	46.0	LT	744.42	INLETS 2x3-FT	H	4.88	---	P1464	1465	1463	739.54	739.32	0.50	44	46	III	15	---
BRAUN ROAD	1467	59BRE+99.80	86.0	LT	743.70	INLETS 2x3-FT	H	3.98	---	P1466	1467	1465	739.72	739.54	0.50	36	38	III	15	---
BRAUN ROAD	1469	58BRE+01.61	38.0	RT	746.90	MANHOLES 5-FT DIAMETER	H	5.96	---	P1468	1469	1461	740.94	738.37	1.33	193	198	III	18	---
BRAUN ROAD	1471	58BRE+01.62	2.0	LT	747.62	INLETS 2x3-FT	H	5.54	---	P1470	1471	1469	742.08	741.90	0.55	33	37	III	15	---
BRAUN ROAD	1473	58BRE+01.69	38.5	LT	746.98	INLETS 2x3-FT	H	4.72	---	P1472	1473	1471	742.26	742.08	0.50	36	38	III	15	---
BRAUN ROAD	1475	58BRE+01.65	98.0	LT	746.16	INLETS 2x3-FT	H	3.62	---	P1474	1475	1473	742.54	742.26	0.50	56	58	IV	15	---
BRAUN ROAD	1477	55BRE+33.62	38.0	RT	750.36	MANHOLES 4-FT DIAMETER	H	5.91	---	P1476	1477	1469	744.45	740.94	1.33	264	268	III	18	---

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
BRAUN ROAD	1479	55BRE+33.56	2.0	LT	750.14	INLETS 2x3-FT	H	4.76	---	P1478	1479	1477	745.38	745.21	0.50	34	37	III	15	---
BRAUN ROAD	1481	55BRE+33.51	10.0	LT	749.99	INLETS 2x3-FT	H	4.57	---	P1480	1481	1479	745.42	745.38	0.50	8	10	III	15	---
BRAUN ROAD	1483	55BRE+33.58	26.0	LT	750.74	INLETS 2x3-FT	H	5.26	---	P1482	1483	1481	745.48	745.42	0.50	12	14	III	15	---
BRAUN ROAD	1485	55BRE+33.54	46.0	LT	750.71	INLETS 2x3-FT	H	5.13	---	P1484	1485	1483	745.58	745.48	0.50	20	22	III	15	---
BRAUN ROAD	1487	55BRE+33.56	98.0	LT	749.71	INLETS 2x3-FT	H	3.89	---	P1486	1487	1485	745.82	745.58	0.50	48	50	III	15	---
BRAUN ROAD	1489	70BRE+40.92	119.7	LT	743.04	MANHOLES 4-FT DIAMETER	H	4.12	---	P1488	1489	1401	738.92	738.76	0.50	32	36	III	15	---
BRAUN ROAD	1491	70BRE+41.77	2.0	LT	743.87	MANHOLES 4-FT DIAMETER	H	5.51	---	P1408	1491	1409	738.36	738.09	0.51	53	57	III	15	---
BRAUN ROAD	1493	68BRE+85.01	144.6	LT	742.21	MANHOLES 4-FT DIAMETER	H	4.71	---	P1492	1493	1375	737.50	737.27	0.49	47	49	III	15	---
BRAUN ROAD	1494	70BRE+08.49	92.7	RT	742.88	MANHOLES 4-FT DIAMETER	H	5.08	---	P1495	1494	1411	737.80	737.73	0.87	8	14	III	15	---
WISCONN VALLEY WAY	1551	554+49.72	70.4	LT	740.98	INLETS 4-FT DIAMETER	H	6.11	---	P1552	1551	1553	734.87	734.73	0.50	28	32	III	15	---
WISCONN VALLEY WAY	1553	554+50.00	34.0	LT	741.25	INLETS 4-FT DIAMETER	H	6.52	---	P1554	1553	1555	734.73	734.60	0.50	25	29	III	15	---
WISCONN VALLEY WAY	1555	554+49.75	8.6	LT	741.09	INLETS 4-FT DIAMETER	H	6.49	---	P1556	1555	1557	734.60	734.56	0.50	8	12	III	15	---
WISCONN VALLEY WAY	1557	554+50.25	7.4	RT	741.28	INLETS 4-FT DIAMETER	HM	6.72	---	P1558	1557	1561	734.56	734.49	0.50	15	19	III	15	---
WISCONN VALLEY WAY	1559	554+09.24	12.6	RT	740.92	INLETS 4-FT DIAMETER	HM	6.20	---	P1559A	1559	1560	734.72	734.68	0.50	9	13	III	15	---
WISCONN VALLEY WAY	1560	554+08.99	22.0	RT	741.17	INLETS 4-FT DIAMETER	HM	6.49	---	P1560A	1560	1561	734.68	734.49	0.50	37	41	III	15	---

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
WISCONN VALLEY WAY	1561	554+50.00	22.0	RT	741.58	INLETS 4-FT DIAMETER	HM	7.09	---	P1562	1561	1567	734.49	734.40	0.50	19	24	III	15	---
WISCONN VALLEY WAY	1563	554+59.90	74.9	RT	741.74	INLETS 4-FT DIAMETER	H	7.22	---	P1564	1563	1565	734.52	734.49	0.50	6	10	III	15	---
WISCONN VALLEY WAY	1565	554+49.92	74.4	RT	741.59	INLETS 4-FT DIAMETER	H	7.10	---	P1566	1565	1567	734.49	734.40	0.50	19	24	III	15	---
WISCONN VALLEY WAY	1567	554+50.00	48.0	RT	741.79	MANHOLES 7-FT DIAMETER	J-SPECIAL	10.22	---	P1568	1567	1579	731.57	731.33	0.25	97	104	HE-III	34x53	---
WISCONN VALLEY WAY	1569	553+49.96	61.1	LT	740.25	INLETS 4-FT DIAMETER	H	6.11	---	P1570	1569	1571	734.14	734.04	0.50	20	24	III	15	---
WISCONN VALLEY WAY	1571	553+50.04	33.1	LT	740.25	INLETS 4-FT DIAMETER	H	6.21	---	P1572	1571	1573	734.04	733.84	0.50	40	44	III	15	---
WISCONN VALLEY WAY	1573	553+49.60	6.5	RT	740.27	INLETS 4-FT DIAMETER	H	6.43	---	P1574	1573	1579	733.84	733.67	0.50	34	40	III	15	---
WISCONN VALLEY WAY	1575	553+59.17	74.0	RT	740.19	INLETS 4-FT DIAMETER	H	6.40	---	P1576	1575	1577	733.79	733.76	0.50	6	10	III	15	---
WISCONN VALLEY WAY	1577	553+50.00	74.0	RT	740.10	INLETS 4-FT DIAMETER	H	6.34	---	P1578	1577	1579	733.76	733.67	0.50	18	24	III	15	---
WISCONN VALLEY WAY	1579	553+50.00	48.0	RT	740.66	MANHOLES 7-FT DIAMETER	J-SPECIAL	9.33	---	P1580	1579	1593	731.33	731.08	0.25	99	106	HE-III	34x53	---
WISCONN VALLEY WAY	1583	552+49.96	59.4	LT	739.27	INLETS 4-FT DIAMETER	H	6.11	---	P1584	1583	1585	733.16	733.06	0.50	20	24	III	15	---
WISCONN VALLEY WAY	1585	552+50.04	31.4	LT	739.27	INLETS 4-FT DIAMETER	H	6.21	---	P1586	1585	1587	733.06	732.80	0.50	53	57	III	15	---
WISCONN VALLEY WAY	1587	552+49.92	21.6	RT	739.57	INLETS 4-FT DIAMETER	H	6.77	---	P1588	1587	1593	732.80	732.71	0.50	19	24	III	15	---
WISCONN VALLEY WAY	1589	552+58.58	72.6	RT	739.22	INLETS 4-FT DIAMETER	H	6.41	---	P1590	1589	1591	732.81	732.78	0.50	6	10	III	15	---
WISCONN VALLEY WAY	1591	552+49.61	70.4	RT	739.17	INLETS 4-FT DIAMETER	H	6.39	---	P1592	1591	1593	732.78	732.71	0.50	15	20	III	15	---

[1] DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B] PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C] PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
WISCONN VALLEY WAY	1593	552+50.00	48.0	RT	739.66	MANHOLES 7-FT DIAMETER	J-SPECIAL	8.58	---	P1594	1593	1605	731.08	730.70	0.25	151	158	HE-IV	34x53	---
WISCONN VALLEY WAY	1595	551+10.69	56.8	LT	738.42	INLETS 4-FT DIAMETER	H	5.67	---	P1596	1595	1597	732.75	732.72	0.50	6	10	IV	15	---
WISCONN VALLEY WAY	1597	550+99.95	56.6	LT	738.36	INLETS 4-FT DIAMETER	H	5.64	---	P1598	1597	1599	732.72	732.62	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1599	551+00.04	28.6	LT	738.36	INLETS 4-FT DIAMETER	H	5.74	---	P1600	1599	1601	732.62	732.37	0.50	51	55	IV	15	---
WISCONN VALLEY WAY	1601	551+00.00	22.0	RT	738.36	INLETS 4-FT DIAMETER	H	5.99	---	P1602	1601	1605	732.37	732.28	0.50	17	23	IV	15	---
WISCONN VALLEY WAY	1603	551+09.31	50.8	RT	738.40	INLETS 4-FT DIAMETER	H	3.24	---	P1604	1603	1605	735.16	735.14	0.50	5	10	IV	15	---
WISCONN VALLEY WAY	1605	551+00.00	50.4	RT	738.36	MANHOLES 7-FT DIAMETER	H	7.66	---	P1606	1605	1615	730.70	730.32	0.25	151	158	HE-IV	34x53	---
WISCONN VALLEY WAY	1607	549+60.65	53.8	LT	737.67	INLETS 4-FT DIAMETER	H	5.31	---	P1608	1607	1609	732.36	732.33	0.50	6	10	IV	15	---
WISCONN VALLEY WAY	1609	549+49.95	53.5	LT	737.61	INLETS 4-FT DIAMETER	H	5.28	---	P1610	1609	1611	732.33	732.23	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1611	549+50.04	25.5	LT	737.61	INLETS 4-FT DIAMETER	H	5.38	---	P1612	1611	1613	732.23	731.99	0.50	48	52	IV	15	---
WISCONN VALLEY WAY	1613	549+50.00	22.0	RT	737.61	INLETS 4-FT DIAMETER	H	5.62	---	P1614	1613	1615	731.99	731.90	0.50	17	23	IV	15	---
WISCONN VALLEY WAY	1615	549+50.00	50.0	RT	737.61	MANHOLES 7-FT DIAMETER	H	7.29	---	P1616	1615	1625	730.32	729.94	0.25	151	158	HE-IV	34x53	---
WISCONN VALLEY WAY	1617	548+10.61	50.6	LT	736.92	INLETS 4-FT DIAMETER	H	4.96	---	P1618	1617	1619	731.96	731.93	0.50	6	10	IV	15	---
WISCONN VALLEY WAY	1619	547+99.95	50.4	LT	736.86	INLETS 4-FT DIAMETER	H	4.93	---	P1620	1619	1621	731.93	731.83	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1621	548+00.05	22.4	LT	736.86	INLETS 4-FT DIAMETER	H	5.03	---	P1622	1621	1623	731.83	731.61	0.50	44	48	IV	15	---

[1] DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B] PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C] PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
WISCONN VALLEY WAY	1623	548+00.00	22.0	RT	736.86	INLETS 4-FT DIAMETER	H	5.25	---	P1624	1623	1625	731.61	731.52	0.50	17	23	IV	15	---
WISCONN VALLEY WAY	1625	548+00.00	50.0	RT	736.86	MANHOLES 7-FT DIAMETER	H	6.92	---	P1626	1625	1635	729.94	729.60	0.25	136	143	HE-IV	34x53	---
WISCONN VALLEY WAY	1627	546+59.43	50.0	LT	736.16	INLETS 4-FT DIAMETER	H	4.55	---	P1628	1627	1629	731.61	731.58	0.50	6	10	IV	15	---
WISCONN VALLEY WAY	1629	546+50.00	50.0	LT	736.12	INLETS 4-FT DIAMETER	H	4.54	---	P1630	1629	1631	731.58	731.48	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1631	546+50.00	22.0	LT	736.12	INLETS 4-FT DIAMETER	H	4.64	---	P1632	1631	1633	731.48	731.26	0.50	44	48	IV	15	---
WISCONN VALLEY WAY	1633	546+50.00	22.0	RT	736.12	INLETS 4-FT DIAMETER	H	4.86	---	P1634	1633	1635	731.26	731.18	0.50	17	23	IV	15	---
WISCONN VALLEY WAY	1635	546+50.00	50.0	RT	736.12	MANHOLES 7-FT DIAMETER	H	6.52	---	P1636	1635	1637	729.60	729.32	0.25	110	118	HE-IV	34x53	---
WISCONN VALLEY WAY	1637	545+25.00	50.0	RT	735.49	MANHOLES 8-FT DIAMETER	H	6.17	---	P1638	1637	1645	729.32	729.10	0.25	87	95	HE-IV	34x53	---
WISCONN VALLEY WAY	1639	545+30.00	22.0	RT	735.51	INLETS 4-FT DIAMETER	H	4.40	---	P1640	1639	1641	731.11	730.89	0.50	44	48	IV	15	---
WISCONN VALLEY WAY	1641	545+30.00	22.0	LT	735.51	INLETS 4-FT DIAMETER	H	4.62	---	P1642	1641	1643	730.89	730.79	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1643	545+30.00	50.0	LT	735.51	INLETS 4-FT DIAMETER	H	4.72	---	P1644	1643	1645	730.79	730.68	0.50	23	29	IV	15	---
WISCONN VALLEY WAY	1645	545+02.73	50.0	LT	735.37	MANHOLES 8-FT DIAMETER	H	6.27	---	P1646	1645	1647	729.10	728.89	0.25	86	90	HE-IV	34x53	TO ENDWALL
WISCONN VALLEY WAY	1651	564+25.00	50.0	RT	743.53	INLETS 4-FT DIAMETER	H	7.39	---	P1652	1651	1659	736.14	735.54	0.50	120	124	III	24	---
WISCONN VALLEY WAY	1653	564+25.06	52.9	LT	743.53	INLETS 4-FT DIAMETER	H	6.16	---	P1654	1653	1655	737.37	736.81	0.50	112	116	III	15	---
WISCONN VALLEY WAY	1655	565+45.46	50.0	LT	742.92	INLETS 4-FT DIAMETER	H	6.11	---	P1656	1655	1657	736.81	736.59	0.50	45	48	III	15	---

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[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
WISCONN VALLEY WAY	1657	565+45.23	0.0	RT	742.62	INLETS 3-FT DIAMETER	BEEHIVE	6.03	---	P1658	1657	1659	736.59	736.37	0.50	44	48	III	15	---
WISCONN VALLEY WAY	1659	565+45.00	50.0	RT	742.93	MANHOLES 5-FT DIAMETER	H	7.39	---	P1660	1659	1661	735.54	735.04	0.50	101	105	III	24	---
WISCONN VALLEY WAY	1661	566+50.00	50.0	RT	742.40	INLETS 4-FT DIAMETER	H	7.36	---	P1662	1661	1669	735.04	734.54	0.50	101	105	III	24	---
WISCONN VALLEY WAY	1663	566+50.00	50.0	LT	742.40	INLETS 4-FT DIAMETER	H	6.12	---	P1664	1663	1665	736.28	735.77	0.50	101	105	III	15	---
WISCONN VALLEY WAY	1665	567+55.15	50.0	LT	741.88	INLETS 4-FT DIAMETER	H	6.11	---	P1666	1665	1667	735.77	735.55	0.50	45	48	III	15	---
WISCONN VALLEY WAY	1667	567+55.15	0.0	RT	741.57	INLETS 3-FT DIAMETER	BEEHIVE	6.02	---	P1668	1667	1669	735.55	735.33	0.50	44	48	III	15	---
WISCONN VALLEY WAY	1669	567+55.15	50.0	RT	741.88	MANHOLES 5-FT DIAMETER	H	7.34	---	P1670	1669	1671	734.54	734.04	0.50	100	105	III	24	---
WISCONN VALLEY WAY	1671	568+59.92	50.0	RT	741.35	INLETS 4-FT DIAMETER	H	7.31	---	P1672	1671	1681	734.04	733.54	0.50	100	105	III	24	---
WISCONN VALLEY WAY	1673	568+59.92	50.0	LT	741.35	INLETS 4-FT DIAMETER	H	6.11	---	P1674	1673	1677	735.24	734.73	0.50	101	105	III	15	---
WISCONN VALLEY WAY	1675	570+71.14	50.0	LT	740.30	INLETS 4-FT DIAMETER	H	5.06	---	P1676	1675	1677	735.24	734.73	0.50	102	106	IV	15	---
WISCONN VALLEY WAY	1677	569+64.69	50.0	LT	740.83	INLETS 4-FT DIAMETER	H	6.10	---	P1678	1677	1679	734.73	734.51	0.50	45	48	III	15	---
WISCONN VALLEY WAY	1679	569+64.69	0.0	RT	740.52	INLETS 3-FT DIAMETER	BEEHIVE	6.01	---	P1680	1679	1681	734.51	734.29	0.50	44	48	III	15	---
WISCONN VALLEY WAY	1681	569+64.69	50.0	RT	740.83	MANHOLES 5-FT DIAMETER	H	7.29	---	P1682	1681	1683	733.54	733.26	0.50	55	60	III	24	---
WISCONN VALLEY WAY	1683	570+25.00	50.0	RT	740.53	MANHOLES 5-FT DIAMETER	H	7.27	---	P1684	1683	1685	733.26	732.99	0.50	54	57	III	24	TO ENDWALL
WISCONN VALLEY WAY	1691	572+57.18	50.0	LT	739.52	INLETS 4-FT DIAMETER	H-S	6.11	---	P1692	1691	1693	733.41	733.31	0.50	20	24	III	15	---

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[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

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STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
WISCONN VALLEY WAY	1693	572+57.18	19.0	LT	739.52	INLETS 4-FT DIAMETER	H-S	6.21	---	P1694	1693	1695	733.31	733.09	0.50	44	48	III	15	---
WISCONN VALLEY WAY	1695	572+57.18	22.0	RT	739.52	INLETS 4-FT DIAMETER	H-S	6.43	---	P1696	1695	1697	733.09	732.99	0.50	20	24	III	15	---
WISCONN VALLEY WAY	1697	572+57.18	50.0	RT	739.52	INLETS 4-FT DIAMETER	H-S	6.53	---	P1698	1697	1705	732.99	732.62	0.50	75	79	III	15	---
WISCONN VALLEY WAY	1701	571+74.97	50.0	LT	739.78	INLETS 4-FT DIAMETER	H	6.11	---	P1702	1701	1703	733.67	733.45	0.50	45	48	III	15	---
WISCONN VALLEY WAY	1703	571+74.97	0.3	RT	739.48	INLETS 3-FT DIAMETER	BEEHIVE	6.03	---	P1704	1703	1705	733.45	733.23	0.50	44	48	III	15	---
WISCONN VALLEY WAY	1705	571+74.97	50.0	RT	739.78	INLETS 4-FT DIAMETER	H	7.16	---	P1706	1705	1707	732.62	732.45	0.50	34	38	III	15	---
WISCONN VALLEY WAY	1707	571+35.00	50.0	RT	739.98	INLETS 4-FT DIAMETER	H	7.56	---	P1708	1707	1709	732.42	732.04	0.50	75	77	III	15	TO ENDWALL
WISCONN VALLEY WAY	1711	573+74.17	170.6	LT	735.45	POND OUTLET STRUCTURE	---	4.00	POND K OUTLET STORM SEWER STRUCTURE. SEE CONSTRUCTION DETAIL.	P1712	1711	1713	731.45	731.02	0.20	215	218	III	30	TO ENDWALL
WISCONN VALLEY WAY	1715	573+25.00	50.0	RT	739.70	INLETS 4-FT DIAMETER	H	5.11	---	P1716	1715	1717	734.59	734.49	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1717	573+25.00	22.0	RT	739.70	INLETS 4-FT DIAMETER	H	5.21	---	P1718	1717	1719	734.49	734.27	0.50	44	48	IV	15	---
WISCONN VALLEY WAY	1719	573+25.00	22.0	LT	739.70	INLETS 4-FT DIAMETER	H	5.43	---	P1720	1719	1721	734.27	734.17	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1721	573+25.00	50.0	LT	739.70	INLETS 4-FT DIAMETER	H	5.53	---	P1722	1721	1729	734.17	733.67	0.50	100	104	IV	15	---
WISCONN VALLEY WAY	1723	574+25.00	50.0	RT	740.20	INLETS 4-FT DIAMETER	H	6.11	---	P1724	1723	1725	734.09	733.99	0.50	20	24	III	15	---
WISCONN VALLEY WAY	1725	574+25.00	22.0	RT	740.20	INLETS 4-FT DIAMETER	H	6.21	---	P1726	1725	1727	733.99	733.77	0.50	44	48	III	15	---
WISCONN VALLEY WAY	1727	574+25.00	22.0	LT	740.20	INLETS 4-FT DIAMETER	H	6.43	---	P1728	1727	1729	733.77	733.67	0.50	20	24	III	15	---

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[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES										STORM SEWER PIPES									
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
WISCONN VALLEY WAY	1729	574+25.00	50.0	LT	740.20	INLETS 4-FT DIAMETER	H	6.53	---	P1730	1729	1745	733.67	733.04	0.50	126	130	III	15	---
WISCONN VALLEY WAY	1731	575+50.00	50.0	RT	740.83	INLETS 4-FT DIAMETER	H	6.12	---	P1732	1731	1733	734.71	734.61	0.50	20	24	III	15	---
WISCONN VALLEY WAY	1733	575+50.00	22.0	RT	740.83	INLETS 4-FT DIAMETER	H	6.22	---	P1734	1733	1735	734.61	734.39	0.50	44	48	III	15	---
WISCONN VALLEY WAY	1735	575+50.00	22.0	LT	740.83	INLETS 4-FT DIAMETER	H	6.44	---	P1736	1735	1745	734.39	734.29	0.50	20	24	III	15	---
WISCONN VALLEY WAY	1737	577+00.00	50.0	RT	741.58	INLETS 4-FT DIAMETER	H	6.11	---	P1738	1737	1739	735.47	735.37	0.50	20	24	III	15	---
WISCONN VALLEY WAY	1739	577+00.00	22.0	RT	741.58	INLETS 4-FT DIAMETER	H	6.21	---	P1740	1739	1741	735.37	735.15	0.50	44	48	III	15	---
WISCONN VALLEY WAY	1741	577+00.00	22.0	LT	741.58	INLETS 4-FT DIAMETER	H	6.43	---	P1742	1741	1743	735.15	735.05	0.50	20	24	III	15	---
WISCONN VALLEY WAY	1743	577+00.00	50.0	LT	741.58	INLETS 4-FT DIAMETER	H	6.53	---	P1744	1743	1745	735.05	734.29	0.50	152	156	III	15	---
WISCONN VALLEY WAY	1745	575+50.00	50.0	LT	740.83	INLETS 4-FT DIAMETER	H	7.79	---	P1746	1745	1747	733.04	732.58	0.50	93	95	III	15	TO ENDWALL
WISCONN VALLEY WAY	1801	605+25.00	60.1	LT	755.23	INLETS 4-FT DIAMETER	H	6.17	---	P1802	1801	1803	749.06	748.91	0.50	30	34	III	15	---
WISCONN VALLEY WAY	1803	605+25.00	22.0	LT	755.06	INLETS 4-FT DIAMETER	H	6.15	---	P1804	1803	1805	748.91	748.75	0.50	32	36	III	15	---
WISCONN VALLEY WAY	1805	605+25.00	10.0	RT	754.88	INLETS 4-FT DIAMETER	H	6.13	---	P1806	1805	1807	748.75	748.62	0.50	25	29	III	15	---
WISCONN VALLEY WAY	1807	605+38.62	39.8	RT	754.96	INLETS 4-FT DIAMETER	---	6.34	COVER PLATE LEFT IN PLACE	P1808	1807	1809	748.62	748.60	0.50	4	8	III	15	---
WISCONN VALLEY WAY	1809	605+38.62	44.0	RT	754.94	INLETS 4-FT DIAMETER	---	6.34	COVER PLATE LEFT IN PLACE	P1810	1809	1811	748.60	748.54	0.50	13	17	III	15	---
WISCONN VALLEY WAY	1811	605+25.00	60.0	RT	754.65	MANHOLES 5-FT DIAMETER	H	7.02	---	P1812	1811	1827	747.63	746.17	1.00	146	151	III	24	---

[1] DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B] PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C] PLAN LENGTH SHOWN FOR PAY QUANTITY.

STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
WISCONN VALLEY WAY	1821	603+75.00	50.0	LT	753.56	INLETS 4-FT DIAMETER	H	6.23	---	P1822	1821	1823	747.33	747.23	0.50	20	24	III	15	---
WISCONN VALLEY WAY	1823	603+75.00	22.0	LT	753.56	INLETS 4-FT DIAMETER	H	6.33	---	P1824	1823	1825	747.23	747.07	0.50	32	36	III	15	---
WISCONN VALLEY WAY	1825	603+75.00	10.0	RT	753.08	INLETS 4-FT DIAMETER	H	6.01	---	P1826	1825	1827	747.07	746.91	0.50	31	36	III	15	---
WISCONN VALLEY WAY	1827	603+75.00	50.0	RT	753.32	MANHOLES 5-FT DIAMETER	H	7.15	---	P1828	1827	1837	746.17	744.72	1.00	145	150	III	24	---
WISCONN VALLEY WAY	1831	602+25.00	50.0	LT	752.06	INLETS 4-FT DIAMETER	H	6.11	---	P1832	1831	1833	745.95	745.85	0.50	20	24	III	15	---
WISCONN VALLEY WAY	1833	602+25.00	22.0	LT	752.06	INLETS 4-FT DIAMETER	H	6.21	---	P1834	1833	1835	745.85	745.63	0.50	44	48	III	15	---
WISCONN VALLEY WAY	1835	602+25.00	22.0	RT	751.82	INLETS 4-FT DIAMETER	H	6.19	---	P1836	1835	1837	745.63	745.54	0.50	19	24	III	15	---
WISCONN VALLEY WAY	1837	602+25.00	50.0	RT	751.82	MANHOLES 5-FT DIAMETER	H	7.10	---	P1838	1837	1847	744.72	743.24	1.00	148	153	III	24	---
WISCONN VALLEY WAY	1841	600+75.00	50.0	LT	750.56	INLETS 4-FT DIAMETER	H	6.11	---	P1842	1841	1843	744.45	744.35	0.50	20	24	III	15	---
WISCONN VALLEY WAY	1843	600+75.00	22.0	LT	750.56	INLETS 4-FT DIAMETER	H	6.21	---	P1844	1843	1845	744.35	744.13	0.50	44	48	III	15	---
WISCONN VALLEY WAY	1845	600+75.00	22.0	RT	750.32	INLETS 4-FT DIAMETER	H	6.19	---	P1846	1845	1847	744.13	744.03	0.50	19	24	III	15	---
WISCONN VALLEY WAY	1847	600+75.00	50.0	RT	750.32	MANHOLES 5-FT DIAMETER	H	7.08	---	P1848	1847	1857	743.24	741.75	1.00	149	154	III	24	---
WISCONN VALLEY WAY	1851	599+25.00	50.0	LT	749.06	INLETS 4-FT DIAMETER	H	6.11	---	P1852	1851	1853	742.95	742.85	0.50	20	24	III	15	---
WISCONN VALLEY WAY	1853	599+25.00	22.0	LT	749.06	INLETS 4-FT DIAMETER	H	6.21	---	P1854	1853	1855	742.85	742.63	0.50	44	48	III	15	---
WISCONN VALLEY WAY	1855	599+25.00	22.0	RT	748.82	INLETS 4-FT DIAMETER	H	6.19	---	P1856	1855	1857	742.63	742.54	0.50	19	24	III	15	---

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\030203_ss_DT.ppt PLOT DATE : 11/28/2018 3:46:50 PM PLOT BY : BRIAN C. ADAMS PLOT NAME : 030203_ss_DT21 PLOT SCALE : 1:1

STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
WISCONN VALLEY WAY	1857	599+25.00	50.0	RT	748.82	MANHOLES 5-FT DIAMETER	H	7.07	---	P1858	1857	1867	741.75	740.26	1.00	149	154	III	24	---
WISCONN VALLEY WAY	1859	597+85.32	50.0	LT	747.67	INLETS 4-FT DIAMETER	H	6.19	---	P1860	1859	1861	741.48	741.45	0.50	6	10	III	15	---
WISCONN VALLEY WAY	1861	597+75.00	50.0	LT	747.56	INLETS 4-FT DIAMETER	H	6.11	---	P1862	1861	1863	741.45	741.35	0.50	20	24	III	15	---
WISCONN VALLEY WAY	1863	597+75.00	22.0	LT	747.56	INLETS 4-FT DIAMETER	H	6.21	---	P1864	1863	1865	741.35	741.13	0.50	44	48	III	15	---
WISCONN VALLEY WAY	1865	597+75.00	22.0	RT	747.32	INLETS 4-FT DIAMETER	H	6.19	---	P1866	1865	1867	741.13	741.03	0.50	19	24	III	15	---
WISCONN VALLEY WAY	1867	597+75.00	50.0	RT	747.32	MANHOLES 5-FT DIAMETER	H	7.06	---	P1868	1867	1877	740.26	738.77	1.00	149	154	III	24	---
WISCONN VALLEY WAY	1869	596+35.32	50.0	LT	746.30	INLETS 4-FT DIAMETER	H	6.16	---	P1870	1869	1871	740.14	740.11	0.50	6	10	III	15	---
WISCONN VALLEY WAY	1871	596+25.00	50.0	LT	746.22	INLETS 4-FT DIAMETER	H	6.11	---	P1872	1871	1873	740.11	740.01	0.50	20	24	III	15	---
WISCONN VALLEY WAY	1873	596+25.00	22.0	LT	746.22	INLETS 4-FT DIAMETER	H	6.21	---	P1874	1873	1875	740.01	739.79	0.50	44	48	III	15	---
WISCONN VALLEY WAY	1875	596+25.00	22.0	RT	746.20	INLETS 4-FT DIAMETER	H	6.41	---	P1876	1875	1877	739.79	739.70	0.50	19	24	III	15	---
WISCONN VALLEY WAY	1877	596+25.00	50.0	RT	746.20	MANHOLES 5-FT DIAMETER	H	7.43	---	P1878	1877	1887	738.77	737.28	1.00	149	154	III	24	---
WISCONN VALLEY WAY	1879	594+85.32	50.0	LT	745.51	INLETS 4-FT DIAMETER	H	6.14	---	P1880	1879	1881	739.37	739.34	0.50	6	10	III	15	---
WISCONN VALLEY WAY	1881	594+75.00	50.0	LT	745.45	INLETS 4-FT DIAMETER	H	6.11	---	P1882	1881	1883	739.34	739.24	0.50	20	24	III	15	---
WISCONN VALLEY WAY	1883	594+75.00	22.0	LT	745.45	INLETS 4-FT DIAMETER	H	6.21	---	P1884	1883	1885	739.24	739.02	0.50	44	48	III	15	---
WISCONN VALLEY WAY	1885	594+75.00	22.0	RT	745.45	INLETS 4-FT DIAMETER	H	6.43	---	P1886	1885	1887	739.02	738.93	0.50	18	23	III	15	---

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[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

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STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
WISCONN VALLEY WAY	1887	594+75.00	50.0	RT	745.45	MANHOLES 6-FT DIAMETER	H	9.17	---	P1888	1887	1897	736.28	735.97	0.20	153	159	III	36	---
WISCONN VALLEY WAY	1889	593+30.32	50.0	LT	744.73	INLETS 4-FT DIAMETER	H	6.13	---	P1890	1889	1891	738.60	738.57	0.50	6	10	III	15	---
WISCONN VALLEY WAY	1891	593+20.00	50.0	LT	744.68	INLETS 4-FT DIAMETER	H	6.11	---	P1892	1891	1893	738.57	738.47	0.50	20	24	III	15	---
WISCONN VALLEY WAY	1893	593+20.00	22.0	LT	744.68	INLETS 4-FT DIAMETER	H	6.21	---	P1894	1893	1895	738.47	738.25	0.50	44	48	III	15	---
WISCONN VALLEY WAY	1895	593+20.00	22.0	RT	744.68	INLETS 4-FT DIAMETER	H	6.43	---	P1896	1895	1897	738.25	738.16	0.50	18	23	III	15	---
WISCONN VALLEY WAY	1897	593+20.00	50.0	RT	744.68	MANHOLES 6-FT DIAMETER	H	8.71	---	P1898	1897	1907	735.97	735.68	0.20	143	149	III	36	---
WISCONN VALLEY WAY	1901	591+75.00	50.0	LT	743.95	INLETS 4-FT DIAMETER	H	6.06	---	P1902	1901	1903	737.89	737.79	0.50	20	24	III	15	---
WISCONN VALLEY WAY	1903	591+75.00	22.0	LT	743.95	INLETS 4-FT DIAMETER	H	6.16	---	P1904	1903	1905	737.79	737.57	0.50	44	48	III	15	---
WISCONN VALLEY WAY	1905	591+75.00	22.0	RT	743.95	INLETS 4-FT DIAMETER	H	6.38	---	P1906	1905	1907	737.57	737.48	0.50	18	23	III	15	---
WISCONN VALLEY WAY	1907	591+75.00	50.0	RT	743.95	MANHOLES 6-FT DIAMETER	H	8.27	---	P1908	1907	1917	735.68	735.54	0.20	70	76	III	36	---
WISCONN VALLEY WAY	1911	591+00.00	50.0	LT	743.73	INLETS 4-FT DIAMETER	H-S	5.98	---	P1912	1911	1913	737.75	737.65	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1913	591+00.00	22.0	LT	743.73	INLETS 4-FT DIAMETER	H-S	6.08	---	P1914	1913	1915	737.65	737.43	0.50	44	48	IV	15	---
WISCONN VALLEY WAY	1915	591+00.00	22.0	RT	743.73	INLETS 4-FT DIAMETER	H-S	6.30	---	P1916	1915	1917	737.43	737.33	0.50	18	23	III	15	---
WISCONN VALLEY WAY	1917	591+00.00	50.0	RT	743.73	MANHOLES 6-FT DIAMETER	H-S	8.19	---	P1918	1917	1927	735.54	735.40	0.20	69	75	III	36	---
WISCONN VALLEY WAY	1921	590+25.00	50.0	LT	743.95	INLETS 4-FT DIAMETER	H	6.11	---	P1922	1921	1923	737.84	737.74	0.50	20	24	III	15	---

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[B] PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

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STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
WISCONN VALLEY WAY	1923	590+25.00	22.0	LT	743.95	INLETS 4-FT DIAMETER	H	6.21	---	P1924	1923	1925	737.74	737.52	0.50	44	48	III	15	---
WISCONN VALLEY WAY	1925	590+25.00	22.0	RT	743.95	INLETS 4-FT DIAMETER	H	6.43	---	P1926	1925	1927	737.52	737.43	0.50	18	23	III	15	---
WISCONN VALLEY WAY	1927	590+25.00	50.0	RT	743.95	MANHOLES 6-FT DIAMETER	H	8.55	---	P1928	1927	1937	735.40	735.15	0.20	124	130	III	36	---
WISCONN VALLEY WAY	1931	588+95.00	50.0	LT	744.60	INLETS 4-FT DIAMETER	H	6.11	---	P1932	1931	1933	738.49	738.39	0.50	20	24	III	15	---
WISCONN VALLEY WAY	1933	588+95.00	22.0	LT	744.60	INLETS 4-FT DIAMETER	H	6.21	---	P1934	1933	1935	738.39	738.17	0.50	44	48	III	15	---
WISCONN VALLEY WAY	1935	588+95.00	22.0	RT	744.60	INLETS 4-FT DIAMETER	H	6.43	---	P1936	1935	1937	738.17	738.08	0.50	18	23	III	15	---
WISCONN VALLEY WAY	1937	588+95.00	50.0	RT	744.60	MANHOLES 6-FT DIAMETER	H	9.45	---	P1938	1937	1947	735.15	734.87	0.20	139	145	III	36	---
WISCONN VALLEY WAY	1941	587+50.00	50.0	LT	745.33	INLETS 4-FT DIAMETER	H	6.11	---	P1942	1941	1943	739.22	739.12	0.50	20	24	III	15	---
WISCONN VALLEY WAY	1943	587+50.00	22.0	LT	745.33	INLETS 4-FT DIAMETER	H	6.21	---	P1944	1943	1945	739.12	738.90	0.50	44	48	III	15	---
WISCONN VALLEY WAY	1945	587+50.00	22.0	RT	745.33	INLETS 4-FT DIAMETER	H	6.43	---	P1946	1945	1947	738.90	738.81	0.50	18	23	III	15	---
WISCONN VALLEY WAY	1947	587+50.00	50.0	RT	745.33	MANHOLES 6-FT DIAMETER	H	10.46	---	P1948	1947	1957	734.87	734.28	0.20	294	300	III	36	---
WISCONN VALLEY WAY	1951	584+50.00	50.0	LT	745.33	INLETS 4-FT DIAMETER	H	6.11	---	P1952	1951	1953	739.22	739.12	0.50	20	24	III	15	---
WISCONN VALLEY WAY	1953	584+50.00	22.0	LT	745.33	INLETS 4-FT DIAMETER	H	6.21	---	P1954	1953	1955	739.12	738.90	0.50	44	48	III	15	---
WISCONN VALLEY WAY	1955	584+50.00	22.0	RT	745.33	INLETS 4-FT DIAMETER	H	6.43	---	P1956	1955	1957	738.90	738.81	0.50	18	23	III	15	---
WISCONN VALLEY WAY	1957	584+50.00	50.0	RT	745.33	MANHOLES 6-FT DIAMETER	H	11.05	---	P1958	1957	1967	734.28	733.99	0.20	144	150	III	36	---

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STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
WISCONN VALLEY WAY	1961	583+00.00	50.0	LT	744.58	INLETS 4-FT DIAMETER	H	6.11	---	P1962	1961	1963	738.47	738.37	0.50	20	24	III	15	---
WISCONN VALLEY WAY	1963	583+00.00	22.0	LT	744.58	INLETS 4-FT DIAMETER	H	6.21	---	P1964	1963	1965	738.37	738.15	0.50	44	48	III	15	---
WISCONN VALLEY WAY	1965	583+00.00	22.0	RT	744.58	INLETS 4-FT DIAMETER	H	6.43	---	P1966	1965	1967	738.15	738.06	0.50	18	23	III	15	---
WISCONN VALLEY WAY	1967	583+00.00	50.0	RT	744.58	MANHOLES 6-FT DIAMETER	H	10.59	---	P1968	1967	1977	733.99	733.70	0.20	144	150	III	36	---
WISCONN VALLEY WAY	1971	581+50.00	50.0	LT	743.83	INLETS 4-FT DIAMETER	H	6.11	---	P1972	1971	1973	737.72	737.62	0.50	20	24	III	15	---
WISCONN VALLEY WAY	1973	581+50.05	22.0	LT	743.83	INLETS 4-FT DIAMETER	H	6.21	---	P1974	1973	1975	737.62	737.40	0.50	44	48	III	15	---
WISCONN VALLEY WAY	1975	581+49.95	22.0	RT	743.83	INLETS 4-FT DIAMETER	H	6.43	---	P1976	1975	1977	737.40	737.31	0.50	18	23	III	15	---
WISCONN VALLEY WAY	1977	581+50.00	50.0	RT	743.83	MANHOLES 6-FT DIAMETER	H	10.13	---	P1978	1977	1987	733.70	733.42	0.20	138	144	III	36	---
WISCONN VALLEY WAY	1981	580+00.00	50.0	LT	743.08	INLETS 4-FT DIAMETER	H	3.88	---	P1982	1981	1983	739.20	739.10	0.50	20	24	IV	15	---
WISCONN VALLEY WAY	1983	580+00.00	22.0	LT	743.08	INLETS 4-FT DIAMETER	H	5.45	---	P1984	1983	1985	737.63	737.41	0.50	44	48	IV	15	---
WISCONN VALLEY WAY	1985	580+00.00	22.0	RT	743.08	INLETS 4-FT DIAMETER	H	5.67	---	P1986	1985	1987	737.41	737.32	0.50	18	23	IV	15	---
WISCONN VALLEY WAY	1987	580+00.00	50.0	RT	743.08	MANHOLES 6-FT DIAMETER	H	9.66	---	P1988	1987	1997	733.42	733.10	0.20	160	167	III	36	---
WISCONN VALLEY WAY	1991	578+55.00	50.0	LT	742.35	INLETS 4-FT DIAMETER	H	6.11	---	P1992	1991	1993	736.24	736.14	0.50	20	24	III	15	---
WISCONN VALLEY WAY	1993	578+55.00	22.0	LT	742.35	INLETS 4-FT DIAMETER	H	6.21	---	P1994	1993	1995	736.14	735.92	0.50	44	48	III	15	---
WISCONN VALLEY WAY	1995	578+55.00	22.0	RT	742.35	INLETS 4-FT DIAMETER	H	6.43	---	P1996	1995	1997	735.92	735.77	0.50	30	36	III	15	---

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STORM SEWER STRUCTURES										STORM SEWER PIPES										
ROADWAY	STRUCTURE NO.	STATION	OFFSET (FT)	LOCATION	RIM OR FLOW ELEV	STRUCTURE TYPE	INLET/MANHOLE COVERS TYPE	DEPTH [1] (FT)	STRUCTURE COMMENTS	PIPE ID	FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE [A] %	PIPE LENGTH [B] (FT)	PLAN LENGTH [C] (FT)	PIPE CLASS	PIPE SIZE (INCH)	PIPE COMMENTS
WISCONN VALLEY WAY	1997	578+25.00	50.0	RT	742.20	MANHOLES 9-FT DIAMETER	H	9.10	---	P1998	1997	1999	733.10	732.74	0.20	180	184	III	36	TO ENDWALL
---	---	---	---	---	---	---	---	--	---	P2004	BULKHEAD	2005	736.57	736.36	0.18	119	123	III	60	---
WISCONN VALLEY WAY	2005	604+99.75	43.9	RT	754.57	MANHOLES 8-FT DIAMETER	J-SPECIAL	18.21	---	P2006	2005	2007	736.36	736.14	0.18	123	131	III	60	---
WISCONN VALLEY WAY	2007	604+14.16	55.0	LT	753.99	MANHOLES 8-FT DIAMETER	J-SPECIAL	17.85	---	P2008	2007	2009	736.14	735.68	0.18	256	264	III	60	---
WISCONN VALLEY WAY	2009	601+50.00	55.0	LT	751.99	MANHOLES 8-FT DIAMETER	J-SPECIAL	16.31	---	P2010	2009	2011	735.68	735.17	0.18	281	289	III	60	---
WISCONN VALLEY WAY	2011	598+50.00	55.0	LT	748.99	MANHOLES 8-FT DIAMETER	J-SPECIAL	13.82	---	P2012	2011	2013	735.17	734.66	0.18	281	289	III	60	---
WISCONN VALLEY WAY	2013	595+50.00	55.0	LT	746.51	MANHOLES 8-FT DIAMETER	J-SPECIAL	11.85	---	P2014	2013	2015	734.66	734.15	0.18	281	289	III	60	---
WISCONN VALLEY WAY	2015	592+50.00	55.0	LT	745.01	MANHOLES 8-FT DIAMETER	J-SPECIAL	10.86	---	P2016	2015	2017	734.15	733.50	0.18	363	371	III	60	---
WISCONN VALLEY WAY	2017	588+75.00	55.0	LT	745.38	MANHOLES 8-FT DIAMETER	J-SPECIAL	11.88	---	P2018	2017	2019	733.50	732.84	0.18	367	375	III	60	---
WISCONN VALLEY WAY	2019	585+00.00	55.0	LT	746.26	MANHOLES 8-FT DIAMETER	J-SPECIAL	13.42	---	P2020	2019	2021	732.84	732.18	0.18	368	376	III	60	---
WISCONN VALLEY WAY	2021	581+25.00	55.0	LT	744.38	MANHOLES 8-FT DIAMETER	J-SPECIAL	12.20	---	P2022	2021	2023	732.18	731.77	0.18	228	236	III	60	---
WISCONN VALLEY WAY	2023	579+00.00	55.0	LT	743.26	MANHOLES 8-FT DIAMETER	J-SPECIAL	11.49	---	P2024	2023	2025	731.77	731.57	0.18	113	117	III	60	TO ENDWALL

[1]DEPTH = RIM OR FLOW ELEV - LOWEST PIPE INVERT ELEVATION

[A] SLOPE CALCULATED BASED ON PIPE LENGTH. PIPE LENGTH REPRESENTS LENGTH OF PIPE MEASURED FROM INSIDE FACE OF STRUCTURE TO INSIDE FACE OF STRUCTURE

[B]PIPE LENGTH SHOWN FOR SLOPE CALCULATION ONLY. NOT INTENDED FOR PAY QUANTITY.

[C]PLAN LENGTH SHOWN FOR PAY QUANTITY.

3

STORM SEWER STRUCTURE SUMMARY													
611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.2008* MANHOLES 8-FT DIAMETER EACH	SPV.0060.011 MANHOLES 9-FT DIAMETER EACH	611.3230* INLETS 2x3-FT EACH	611.3003 INLETS 3-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.0535 MANHOLE COVERS TYPE J SPECIAL EACH	611.0624 INLET COVERS TYPE H EACH	611.0627* INLET COVERS TYPE HM EACH	611.0639 INLET COVERS TYPE H-S EACH	SPV.0060.008 INLET COVERS BEEHIVE EACH
6	39	28	9	12	1	28	9	248	14	321	4	30	9

STORM SEWER PIPE SUMMARY													
608.0312* STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315* STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0330 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	608.0336 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	608.0360* STORM SEWER PIPE REINFORCED CONCRETE CLASS III 60-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0424 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	608.2424 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 24x38-INCH LF	608.2429 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 29x45-INCH LF	608.2334 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 34x53-INCH LF	608.2434 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 34x53-INCH LF
179	6001	466	4244	218	1829	2860	4591	183	725	1329	493	307	920

*NOTE: ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

FENCE SAFETY

LOCATION	616.0700.S FENCE SAFETY LF
UNDISTRIBUTED	1,000
PROJECT 2704-00-76 TOTAL	1,000

MOBILIZATION

LOCATION	619.1000 MOBILIZATION EACH
PROJECT 2704-00-76	1
PROJECT 2704-00-76 TOTAL	1

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FENCE CHAIN LINK

STATION	LOCATION	OFFSET	616.0206 FENCE CHAIN LINK 6-FT LF
538+00	WISCONN VALLEY WAY	LT	100
538+00	WISCONN VALLEY WAY	RT	100
PROJECT 2704-00-76 TOTAL			200

DRAINTILE EXPLORATION

LOCATION	612.0700 DRAIN TILE EXPLORATION LF
UNDISTRIBUTED	10,000
PROJECT 2704-00-76 TOTAL	10,000

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

CONCRETE MEDIAN SLOPED NOSE

STATION	OFFSET	LOCATION	620.0300 CONCRETE MEDIAN SLOPED NOSE SF	REMARKS
554+05	RT	WISCONN VALLEY WAY	89	TYPE 1
555+27	RT	WISCONN VALLEY WAY	65	TYPE 1
555+79	LT	WISCONN VALLEY WAY	66	TYPE 2
556+01	RT	WISCONN VALLEY WAY	27	TYPE 2
556+02	RT	WISCONN VALLEY WAY	96	TYPE 2
557+26	LT	WISCONN VALLEY WAY	48	TYPE 2
557+27	LT	WISCONN VALLEY WAY	28	TYPE 2
557+53	RT	WISCONN VALLEY WAY	66	TYPE 1
557+95	LT	WISCONN VALLEY WAY	67	TYPE 1
560+45	LT	WISCONN VALLEY WAY	84	TYPE 1
55BRW+45	RT	BRAUN ROAD	168	TYPE 1
67BRE+08	LT	BRAUN ROAD	168	TYPE 1
68BRE+09	RT	BRAUN ROAD	66	TYPE 1
68BRE+51	LT	BRAUN ROAD	84	TYPE 1
68BRE+86	RT	BRAUN ROAD	25	TYPE 2
68BRE+87	LT	BRAUN ROAD	96	TYPE 2
69BRW+99	RT	BRAUN ROAD	48	TYPE 2
69BRW+99	LT	BRAUN ROAD	29	TYPE 2
70BRW+29	RT	BRAUN ROAD	84	TYPE 1
70BRW+72	LT	BRAUN ROAD	66	TYPE 1
PROJECT 2704-00-76 TOTAL			1,470	

DUST CONTROL SURFACE TREATMENT

LOCATION	623.0200 DUST CONTROL SURFACE TREATMENT SY
PROJECT 2704-00-76	107,494
PROJECT 2704-00-76 TOTAL	107,494

WATER

LOCATION	624.0100 WATER MGAL
AGGREGATE COMPACTION	72
EARTHWORK COMPACTION	945
DUST CONTROL	1,017
SEEDED AREAS	4,255
PROJECT 2704-00-76 TOTAL	6,289

INLET PROTECTION

STATION	TO	STATION	LOCATION	628.7005* INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH
501+54	-	516+00	WISCONN VALLEY WAY	44	--	32	12
516+00	-	530+00	WISCONN VALLEY WAY	40	--	28	12
530+00	-	547+00	WISCONN VALLEY WAY	46	5	34	12
547+00	-	555+00	WISCONN VALLEY WAY	35	--	35	--
558+00	-	562+00	WISCONN VALLEY WAY	29	--	17	12
564+00	-	575+00	WISCONN VALLEY WAY	29	4	19	10
575+00	-	590+00	WISCONN VALLEY WAY	36	--	36	--
590+00	-	606+00	WISCONN VALLEY WAY	54	--	42	12
54BRE+36	-	65BRE+00	BRAUN ROAD	28	--	18	10
65BRE+00	-	71BRE+75	BRAUN ROAD	19	--	19	--
UNDISTRIBUTED				95	2	74	21
PROJECT 2704-00-76 TOTAL				455	11	354	101

*NOTE: ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

RESTORATION

STATION			OFFSET	LOCATION	SPV.0180.001* TOPSOIL SPECIAL SY	628.2004 EROSION MAT CLASS 1 TYPE B SY	629.0205 FERTILIZER TYPE A CWT	629.0210* FERTILIZER TYPE B CWT	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB
501+54	-	555+23	RT	WISCONN VALLEY WAY	24,006	24,006	--	15.1	433	433
501+54	-	555+23	MED	WISCONN VALLEY WAY	26,214	26,214	--	16.5	471	471
501+54	-	555+23	LT	WISCONN VALLEY WAY	23,570	23,570	--	14.8	424	424
555+23	-	555+65	LT	WISCON VALLEY WAY	70	70		--	1	1
555+23	-	555+76	RT	WISCON VALLEY WAY	110	110		0.1	2	2
557+66	-	557+99	RT	WISCON VALLEY WAY	53	53		--	1	1
558+00	-	606+00	LT	WISCONN VALLEY WAY	16,834	16,834	--	10.6	303	303
558+00	-	606+00	MED	WISCONN VALLEY WAY	22,192	22,192	--	14.0	399	399
558+00	-	606+00	RT	WISCONN VALLEY WAY	18,106	18,106	--	11.4	326	326
				DETENTION POND I	4,665	4,665	2.9	--	84	84
				DETENTION POND J	8,719	8,719	5.5	--	156	156
				DETENTION POND K	12,177	12,177	7.7	--	219	219
54BRE+36	-	68BRE+62	LT	BRAUN ROAD	5,388	5,388	--	3.4	97	97
54BRE+36	-	68BRE+67	RT	BRAUN ROAD	6,002	6,002	--	3.8	108	108
56BRE+14	-	66BRE+49	MED	BRAUN ROAD	4,296	4,296	--	2.7	78	78
67BRE+12	-	68BRE+59	MED	BRAUN ROAD	292	292		0.2	5	5
70BRE+15	-	71BRE+75	LT	BRAUN ROAD	584	584	--	0.4	11	11
70BRE+32	-	71BRE+75	RT	BRAUN ROAD	802	802	--	0.5	15	15
UNDISTRIBUTED					17,420	17,420	1.9	11.5	317	317
PROJECT 2704-00-76 TOTAL					191,500	191,500	18.0	105.0	3,450	3,450

*NOTE: ADDITIONAL QUANTITIES SHOWN ELSEWHERE

LANDSCAPE PLANTING SURVEILLANCE AND CARE CYCLES

LOCATION	632.9101* LANDSCAPE PLANTING SURVEILLANCE AND CARE CYCLES EACH
MEDIAN BIOSWALES	9
PROJECT 2704-00-76 TOTAL	9

*NOTE: ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

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3

TREES AND SHRUBS

	TREES			SHRUBS			
	632.0101.001	632.0101.002	632.0101.003	632.0201.001	632.0201.002	632.0201.003	632.9101 *
	QUAKING ASPEN B&B 2-INCH CAL	SWAMP WHITE OAK B&B 2-INCH CAL	RED MAPLE B&B 2-INCH CAL	RED OSIER DOGWOOD CONT 24-INCH HT	GREY DOGWOOD CONT 24-INCH HT	EASTERN WHITE CEDAR CONT 24-INCH HT	LANDSCAPE PLANTING SURVEILLANCE AND CARE CYCLES
LOCATION	EACH	EACH	EACH	EACH	EACH	EACH	EACH
POND PLANTINGS	39	12	12	39	39	45	24
TOTALS	**39**	**12**	**12**	**39**	**39**	**45**	**24**

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN PLAN

RESTORATION ITEMS

	SPV.0005.001 SEED BED PREPARATION		SPV.0005.002 SEEDING SPECIAL		SPV.0180.003 TOPSOIL SPECIAL FOR PRAIRIE SEEDING		SPV.0085.001 SEED MIX SPECIAL		SPV.0180.002 MULCHING SPECIAL		SPV.0105.001 SURVEILLANCE AND CARE FOR SEEDING SPECIAL
	ZONE 1	ZONE 2	ZONE 1	ZONE 2	ZONE 1	ZONE 2	ZONE 1	ZONE 2	ZONE 1	ZONE 2	
ROADWAY	ACRE	ACRE	ACRE	ACRE	SY	SY	LB	LB	SY	SY	LS
RAMP NE	.80	.80	.80	.80	3,872	3,872	175	175	3,872	3,872	1
TOTALS	**1.60**		**1.60**		**7,744**		**350**		**7,744**		**1**

ALL ITEMS ARE CATEGORY 1000 UNLESS OTHERWISE NOTED

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EROSION CONTROL

STATION			OFFSET	LOCATION	628.1504* SILT FENCE LF	628.1520* SILT FENCE MAINTENANCE LF	628.6510 SOIL STABILIZER TYPE B ACRE	628.7504* TEMPORARY DITCH CHECKS LF	628.7555* CULVERT PIPE CHECK EACH	SPV.0090.001* HEAVY DUTY SILT FENCE LF
501+51	-	556+00	RT	WISCONN VALLEY WAY	5,765	5,765	0.62	--	--	246
501+51	-	556+00	LT	WISCONN VALLEY WAY	5,172	5,172	1.07	--	--	699
501+51	-	556+00	MED	WISCONN VALLEY WAY	--	--	--	--	--	--
558+00	-	606+00	RT	WISCONN VALLEY WAY	4,189	4,189	--	--	--	613
558+00	-	606+00	LT	WISCONN VALLEY WAY	4,486	4,486	1.11	--	50	665
558+00	-	606+00	MED	WISCONN VALLEY WAY	--	--	--	--	--	--
54BRE+31	-	68BRE+17	LT	BRAUN ROAD	1,396	1,396	--	40	--	--
54BRE+31	-	68BRE+23	RT	BRAUN ROAD	1,402	1,402	--	32	--	--
70BRE+41	-	71BRE+80	LT	BRAUN ROAD	143	143	--	8	--	--
70BRE+75	-	71BRE+80	RT	BRAUN ROAD	115	115	--	8	--	--
UNDISTRIBUTED					5,832	5,832	0.75	22	15	577
PROJECT 2704-00-76 TOTAL					28,500	28,500	3.75	110	65	2,800

*NOTE: ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

EROSION CONTROL

	628.7570* ROCK BAGS EACH	628.7560* TRACKING PADS EACH	SPV.0060.002 TEMPORARY STONE DITCH CHECKS EACH	SPV.0060.003 SAND BAGS EACH	SPV.0060.004 TEMPORARY SEDIMENT TRAPS EACH	628.1104 EROSION BALES EACH	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
UNDISTRIBUTED	100	4	20	150	10	300	6	10
PROJECT 2704-00-76 TOTAL	100	4	20	150	10	300	6	10

*NOTE: ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

STORM SEWER STRUCTURES

				611.0530	611.0627*	611.2008*	611.3230*			
STRUCTURE	STATION	OFFSET[1]	LOCATION	MANHOLE COVERS TYPE J EACH	INLET COVERS TYPE HM EACH	MANHOLES 8-FT DIAMETER EACH	INLETS 2X3-FT EACH	RIM ELEVATION	INVERT[2] ELEVATION	DEPTH[3] FT
700	665+33	55' RT	RAMP-NE	1	--	1	--	738.43	730.30	6.89
704	659+71	16.5' RT	RAMP-NE	--	1	--	1	734.88	731.75	2.13
			TOTALS	1	1	1	1			

REMARKS

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN PLAN

[1] STATIONS, OFFSETS, AND ELEVATIONS ARE TO CENTER OF STRUCTURE

[2] FOR STRUCTURES WITH SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE SUMP. FOR STRUCTURES WITHOUT SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE AT THE CENTER OF STRUCTURE.

[3] DEPTH = RIM ELEV - TOP OF STRUCTURE BASE ELEV - COVER HEIGHT - 6 -INCH ADJUSTMENT RING HEIGHT

EROSION CONTROL ITEMS

	628.1504*	628.1520*	628.2008	628.7005*	628.7504*	628.7555*	628.7560*	628.7570*	629.0210*	630.0175	606.0200*	645.0120*	SPV.0090.001*	SPV.0180.001*
ROADWAY	SILT FENCE LF	SILT FENCE MAINTENANCE LF	EROSION MAT URBAN CLASS I TYPE B SY	INLET PROTECTION TYPE A EACH	TEMPORARY DITCH CHECKS LF	CULVERT PIPE CHECKS EACH	TRACKNG PADS EACH	ROCK BAGS EACH	FERTILIZER TYPE B CWT	SEEDING MIXTURE NO. 75 LB	RIPRAP MEDIUM CY	GEOTEXTILE TYPE HR SY	HEAVY DUTY SILT FENCE LF	TOPSOIL SPECIAL SY
RAMP NE	525	525	6,795	1	45	1	1	25	5	45	520	770	69	6,795
UNDISTRIBUTED	105	105	1,360	--	10	--	--	--	1	10	105	155	16	1,360
TOTALS	**630**	**630**	**8,155**	**1**	**55**	**1**	**1**	**25**	**6**	**55**	**625**	**925**	**85**	**8,155**

*ADDITIONAL QUANTITIES LISTED ELSEWHERE IN PLAN

ALL ITEMS ARE CATEGORY 1000 UNLESS OTHERWISE NOTED

PERMANENT SIGNING

SIGN #	SIGN CODE	SIGN SIZE IN	SIGN SIZE IN	637.1220 SIGNS TYPE I REFLECTIVE SH SF	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0618 POSTS WOOD 4X6-IN X 18 FT EACH	637.0620 SIGN FLAGS PERMANENT TYPE 2 EACH	SPV.0060.050 SIGN SUPPORT SPECIAL MOUNTING EACH	SIGN MOUNTED ON SAME POST AS	REMARKS
P001	R3-20LL	24	X 36	--	6.00	--	--	1	--	--	--	
P002	R3-5L	42	X 48	--	14.00	--	--	--	--	1	--	MOUNTED ON IH-94 NB BRIDGE
P003	--	36	X 42	--	10.50	--	--	--	--	1	--	MOUNTED ON IH-94 NB BRIDGE
P004	R3-5R	42	X 48	--	14.00	--	--	--	--	1	--	MOUNTED ON IH-94 NB BRIDGE
P005	--	72	X 84	42.00	--	--	--	--	--	--	--	MOUNTED ON S-51-611
P006	--	72	X 84	42	--	--	--	--	--	--	--	MOUNTED ON S-51-611
P007	--	48	X 60	20	--	--	--	--	--	--	--	MOUNTED ON S-51-611
P008	--	72	X 84	42	--	--	--	--	--	--	--	MOUNTED ON S-51-611
P009	--	72	X 84	42	--	--	--	--	--	--	--	MOUNTED ON S-51-611
P010	R2-1	24	X 30	--	5.00	--	--	1	--	--	--	
P011	R2-1	24	X 30	--	5.00	--	--	1	--	--	--	
P012	R3-20L	24	X 36	--	6.00	--	--	1	--	--	--	
P013	W3-3	36	X 36	--	--	--	9	1	2	--	--	
P014	W3-3	36	X 36	--	--	--	9	1	2	--	--	
P015	W3-3	36	X 36	--	--	--	9	1	2	--	--	
P016	W3-3	36	X 36	--	--	--	9	1	2	--	--	
P017	R3-20L	24	X 36	--	6.00	--	--	1	--	--	--	
P018	R2-1	24	X 30	--	5.00	--	--	1	--	--	--	
P019	R2-1	24	X 30	--	5.00	--	--	1	--	--	--	
P020	R1-1-F	36	X 36	--	--	7.46	--	--	--	--	P022	MOUNTED ON SIGNAL POLE
P021	R1-1-F	36	X 36	--	--	7.46	--	--	--	--	P041	MOUNTED ON SIGNAL POLE
P022	R4-7	24	X 30	--	5.00	--	--	--	--	--	P020	MOUNTED ON SIGNAL POLE
P023	R6-1	36	X 12	--	3.00	--	--	--	--	--	--	MOUNTED ON SIGNAL POLE
P024	W12-1-D	24	X 24	--	--	--	4	1	--	--	--	2' MOUNTING HEIGHT
P025	R1-1-F	36	X 36	--	--	7.46	--	--	--	--	--	MOUNTED ON SIGNAL POLE
P026	R1-2	36	X 31	--	3.88	--	--	1	--	--	--	
P027	R3-20LL	24	X 36	--	6.00	--	--	1	--	--	--	
P028	W12-1-D	24	X 24	--	--	--	4	1	--	--	--	2' MOUNTING HEIGHT
P029	R1-2	36	X 31	--	3.88	--	--	1	--	--	--	
P030	R1-1-F	36	X 36	--	--	7.46	--	1	--	--	--	MOUNTED ON SIGNAL POLE
P031	R6-1	36	X 12	--	3.00	--	--	--	--	--	--	MOUNTED ON SIGNAL POLE
P032	R4-7	24	X 30	--	5.00	--	--	--	--	--	P033	MOUNTED ON SIGNAL POLE
P033	R1-1-F	36	X 36	--	--	7.46	--	--	--	--	P032	MOUNTED ON SIGNAL POLE
P034	R1-1-F	36	X 36	--	--	7.46	--	--	--	--	P042	MOUNTED ON SIGNAL POLE
P035	R1-1-F	36	X 36	--	--	7.46	--	--	--	--	P036	MOUNTED ON SIGNAL POLE

CONTINUED ON NEXT PAGE

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

PERMANENT SIGNING

SIGN #	SIGN CODE	SIGN SIZE IN		IN	637.1220 SIGNS TYPE I REFLECTIVE SH SF	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0618 POSTS WOOD 4X6-IN X 18 FT EACH	637.0620 SIGN FLAGS PERMANENT TYPE 2 EACH	SPV.0060.050 SIGN SUPPORT SPECIAL MOUNTING EACH	SIGN MOUNTED ON SAME POST AS	REMARKS
P036	R4-7	24	X	30	--	5.00	--	--	--	--	--	P035	MOUNTED ON SIGNAL POLE
P037	R6-1	36	X	12	--	3.00	--	--	--	--	--	--	MOUNTED ON SIGNAL POLE
P038	R1-2	36	X	31	--	3.88	--	--	1	--	--	--	
P039	R1-1-F	36	X	36	--	--	7.46	--	--	--	--	--	MOUNTED ON SIGNAL POLE
P040	W12-1-D	24	X	24	--	--	--	4	1	--	--	--	2' MOUNTING HEIGHT
P041	R5-1	30	X	30	--	6.25	--	--	--	--	--	P021	MOUNTED ON SIGNAL POLE
P042	R5-1	30	X	30	--	6.25	--	--	--	--	--	P034	MOUNTED ON SIGNAL POLE
P043	R5-1	30	X	30	--	6.25	--	--	--	--	--	P044	MOUNTED ON SIGNAL POLE
P043a	R10-50	30	X	36	--	7.50	--	--	--	--	--		MOUNTED ON SIGNAL POLE
P044	R1-1-F	36	X	36	--	--	7.46	--	--	--	--	P043	MOUNTED ON SIGNAL POLE
P045	R1-1-F	36	X	36	--	--	7.46	--	--	--	--	P048	MOUNTED ON SIGNAL POLE
P046	R10-11B	24	X	24	--	4.00	--	--	--	--	--	--	MOUNTED ON SIGNAL POLE
P047	R10-11B	24	X	24	--	4.00	--	--	--	--	--	--	MOUNTED ON SIGNAL POLE
P048	R4-7	24	X	30	--	5.00	--	--	--	--	--	P045	MOUNTED ON SIGNAL POLE
P049	R6-1	36	X	12	--	3.00	--	--	--	--	--	--	MOUNTED ON SIGNAL POLE
P050	R1-1-F	36	X	36	--	--	7.46	--	--	--	--	--	MOUNTED ON SIGNAL POLE
P051	R1-1-F	36	X	36	--	--	7.46	--	--	--	--	--	MOUNTED ON SIGNAL POLE
P052	R1-1-F	36	X	36	--	--	7.46	--	--	--	--	P054	MOUNTED ON SIGNAL POLE
P053	W12-1-D	24	X	24	--	--	--	4	1	--	--	--	2' MOUNTING HEIGHT
P054	R5-1	30	X	30	--	6.25	--	--	--	--	--	P052	MOUNTED ON SIGNAL POLE
P055	M1-94H	108	X	18	--	13.50	--	--	--	--	--	--	MOUNTED ON MAST ARM
P056	M1-94H	108	1	18	--	13.50	--	--	--	--	--	--	MOUNTED ON MAST ARM
P057	M1-94H	54	X	18	--	6.75	--	--	--	--	--	--	MOUNTED ON MAST ARM
P058	M1-94H	54	X	18	--	6.75	--	--	--	--	--	--	MOUNTED ON MAST ARM
P101	R6-2L	24	X	30	--	5.00	--	--	1	--	--	--	
P102	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	
P103	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	
P104	R3-7R	36	X	36	--	9.00	--	--	1	--	--	--	
P105	R3-5L	42	X	48	--	14.00	--	--	--	--	--	--	MOUNTED ON S-51-612
P106	R3-5R	42	X	48	--	14.00	--	--	--	--	--	--	MOUNTED ON S-51-612
P107	R3-5R	42	X	48	--	14.00	--	--	--	--	--	--	MOUNTED ON S-51-612
P108	R5-1A	36	X	24	--	6.00	--	--	1	--	--	P109	
P109	R3-20L	24	X	36	--	6.00	--	--	--	--	--	P108	
P110	R3-8S	54	X	30	--	11.25	--	--	2	--	--	--	
P111	J1-1	24	X	39	--	6.50	--	--	1	--	--	--	

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ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

PERMANENT SIGNING

SIGN #	SIGN CODE	SIGN SIZE IN		IN	637.1220 SIGNS TYPE I REFLECTIVE SH SF	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0618 POSTS WOOD 4X6-IN X 18 FT EACH	637.0620 SIGN FLAGS PERMANENT TYPE 2 EACH	SPV.0060.050 SIGN SUPPORT SPECIAL MOUNTING EACH	SIGN MOUNTED ON SAME POST AS	REMARKS
P112	J1-1	24	X	39	--	6.50	--	--	1	--	--	--	
P113	R3-7R	36	X	36	--	9.00	--	--	1	--	--	--	
P114	W3-3	36	X	36	--	--	--	9	1	--	--	--	
P115	W3-3	36	X	36	--	--	--	9	1	--	--	--	
P116	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	
P117	R2-1	24	X	30	--	5.00	--	--	1		--	--	
P201	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	
P202	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	
P203	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	
P204	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	
P301	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	
P302	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	
P303	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	
P304	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	
P401	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	
P402	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	
P403	W3-3	36	X	36	--	--	--	9	1	--	--	--	
P404	W3-3	36	X	36	--	--	--	9	1	--	--	--	
P405	R5-1A	36	X	24	--	6.00	--	--	1	--	--	--	
P406	R5-1A	36	X	24	--	6.00	--	--	1	--	--	--	
P407	R3-20L	24	X	36	--	6.00	--	--	1	--	--	--	
P408	R3-8MM	36	X	30	--	7.50	--	--	1	--	--	--	
P409	R3-20LL	24	X	36	--	6.00	--	--	1	--	--	--	
P410	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	
P411	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	
P501	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	
P502	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	
P503	R3-20LL	24	X	36	--	6.00	--	--	1	--	--	--	
P504	R3-8Y	30	X	36	--	7.50	--	--	1	--	--	--	
P505	R5-1A	36	X	24	--	6.00	--	--	1	--	--	--	
P506	R5-1A	36	X	24	--	6.00	--	--	1	--	--	P507	
P507	R3-20L	24	X	36	--	6.00	--	--	--	--	--	P506	
P508	W3-3	36	X	36	--	--	--	9	1	--	--	--	
P509	W3-3	36	X	36	--	--	--	9	1	--	--	--	
P510	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	

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ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

PERMANENT SIGNING

SIGN #	SIGN CODE	SIGN SIZE IN		IN	637.1220 SIGNS TYPE I REFLECTIVE SH SF	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0618 POSTS WOOD 4X6-IN X 18 FT EACH	637.0620 SIGN FLAGS PERMANENT TYPE 2 EACH	SPV.0060.050 SIGN SUPPORT SPECIAL MOUNTING EACH	SIGN MOUNTED ON SAME POST AS	REMARKS
P511	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	
P601	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	
P602	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	
P603	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	
P604	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	
P701	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	
P702	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	
P703	W3-3	36	X	36	--	--	--	9	1	--	--	--	
P704	W3-3	36	X	36	--	--	--	9	1	--	--	--	
P705	R3-7R	36	X	36	--	9.00	--	--	1	--	--	--	
P706	J1-1	24	X	39	--	6.50	--	--	1	--	--	--	
P707	J1-1	24	X	39	--	6.50	--	--	1	--	--	--	
P708	R3-8R	54	X	30	--	11.25	--	--	2	--	--	--	
P709	R3-8R	54	X	30	--	11.25	--	--	2	--	--	P710	
P710	R5-1A	36	X	24	--	6.00	--	--	--	--	--	P709	
P711	R3-5L	42	X	48	--	14.00	--	--	--	--	--	--	MOUNTED ON S-51-613
P712	R3-5L	42	X	48	--	14.00	--	--	--	--	--	--	MOUNTED ON S-51-613
P713	R3-5R	42	X	48	--	14.00	--	--	--	--	--	--	MOUNTED ON S-51-613
P714	R3-7R	36	X	36	--	9.00	--	--	1	--	--	--	
P715	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	
P716	R2-1	24	X	30	--	5.00	--	--	1	--	--	--	
PROJECT 2704-00-76 TOTAL					188.00	612.89	96.98	124.00	81	8	3		

REMOVING SIGNS

SIGN #	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
R001	1	1	SPEED LIMIT 45
R002	1	1	STOP AHEAD
R003	1	1	SPEED LIMIT 45
R004	1	1	SPEED LIMIT 45
PROJECT 2704-00-76 TOTAL	4	4	

OVERHEAD SIGN SUPPORTS

STATION	LOCATION	641.8100.001 OVERHEAD SIGN SUPPORT (S-51-611) EACH	641.8100.002 OVERHEAD SIGN SUPPORT (S-51-612) EACH	641.8100.003 OVERHEAD SIGN SUPPORT (S-51-613) EACH
57BRW+50	BRAUN ROAD	1	-	-
503+12	WISCONN VALLEY WAY	-	1	-
603+57	WISCONN VALLEY WAY	-	-	1
PROJECT 2704-00-76 TOTAL		1	1	1

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\27040076_MQ.ppt PLOT DATE : 12/20/2018 11:22:28 AM PLOT BY : JOHNATHAN OLSON PLOT NAME : 27040076_MQ16 PLOT SCALE : 1:1

3

PAVEMENT MARKINGS

STATION	TO	STATION	OFFSET	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH WHITE LF	646.1020 MARKING LINE EPOXY 4-INCH YELLOW LF	SPV.0090.004 MARKING LINE CONTRAST EPOXY 4-INCH WHITE SKIP LF	646.3020 MARKING LINE EPOXY 8-INCH WHITE LF	SPV.0090.005 MARKING LINE CONTRAST EPOXY 8-INCH SOLID LF	SPV.0090.005 MARKING LINE CONTRAST EPOXY 8-INCH SKIP LF	646.5020 MARKING ARROW EPOXY EACH	646.5120 MARKING WORD EPOXY "ONLY" EACH
501+54	-	556+00	RT	WISCONN VALLEY WAY	5,417	5,421	1,357	--	810	37	4	2
501+54	-	556+00	LT	WISCONN VALLEY WAY	5,407	5,347	1,186	--	447	127	4	4
557+25	-	606+00	RT	WISCONN VALLEY WAY	4,835	4,763	1,024	--	490	126	7	4
557+25	-	606+00	LT	WISCONN VALLEY WAY	4,812	4,825	1,171	--	630	54	2	1
54BRE+36	-	69BRE+50		BRAUN ROAD	1,430	--	--	--	--	--	--	--
54BRE+36	-	58BRE+21		BRAUN ROAD	--	--	--	818	--	--	1	--
64BRE+98	-	69BRE+50		BRAUN ROAD	--	--	--	665	--	--	2	1
70BRE+07	-	71BRE+75		BRAUN ROAD	192	--	--	137	--	--	1	1
SUBTOTAL					22,093	20,356	4,738	1,620	2,377	344	21	13
UNDISTRIBUTED						--	--	--	--	--	--	--
PROJECT 2704-00-76 TOTAL						42,449	4,738	1,620	2,721		21	13

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PAVEMENT MARKINGS

STATION	TO	STATION	OFFSET	LOCATION	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	646.6220 MARKING YIELD LINE EPOXY 18-INCH EACH	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH LF	646.8120 MARKING CURB EPOXY LF	646.8220 MARKING ISLAND NOSE EPOXY EACH	646.6464 COLD WEATHER MARKING EPOXY 4-INCH LF	646.6468 COLD WEATHER MARKING EPOXY 8-INCH LF
501+54	-	556+00	RT	WISCONN VALLEY WAY	61	--	223	59	1	--	--
501+54	-	556+00	LT	WISCONN VALLEY WAY	48	8	232	50	1	--	--
557+25	-	606+00	RT	WISCONN VALLEY WAY	--	--	--	--	--	--	--
557+25	-	606+00	LT	WISCONN VALLEY WAY	--	--	--	--	--	--	--
54BRE+36	-	69BRE+50		BRAUN ROAD	--	--	--	--	--	--	--
54BRE+36	-	58BRE+21		BRAUN ROAD	--	--	--	--	--	--	--
64BRE+98	-	69BRE+50		BRAUN ROAD	48	8	237	10	1	--	--
70BRE+07	-	71BRE+75		BRAUN ROAD	60	8	259	10	1	--	--
SUBTOTAL					217	24	951	129	4	--	--
UNDISTRIBUTED					--	--	--	--	--	45,565	2,721
PROJECT 2704-00-76 TOTAL					217	24	951	129	4	45,565	2,721

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

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TRAFFIC CONTROL

			643.0300 TRAFFIC CONTROL DRUMS		643.0420 TRAFFIC CONTROL BARRICADES TYPE III		643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A		643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C		643.0900 TRAFFIC CONTROL SIGNS		643.5000 TRAFFIC CONTROL
		STAGE DURATION											
STAGE	LOCATION	DAYS	EACH**	DAY	EACH**	DAY	EACH**	DAY	EACH**	DAY	EACH**	DAY	EACH
2	BRAUN ROAD	45	54	2,430	49	2,205	98	4,410	--	--	24	1,080	--
4	WISCONN VALLEY WAY	20	30	600	4	80	8	160	10	200	10	200	
	UNDISTRIBUTED			320		215		430		--		120	1
PROJECT 2704-00-76 TOTAL				3,350		2,500		5,000		200		1,400	1

NOTE: **FOR INFORMATION ONLY

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TRAFFIC CONTROL COVERING SIGNS TYPE II

LOCATION	NUMBER OF CYCLES	NUMBER OF SIGNS	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH
UNDISTRIBUTED	1	10	10
PROJECT 2704-00-76 TOTAL			10

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

CONNECT DRAIN TILE

LOCATION	SPV.0060.013 CONNECT DRAIN TILE EA	608.0312* STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF
UNDISTRIBUTED	50	4,375
PROJECT 2704-00-76 TOTAL	50	4,375

*NOTE: ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PAVEMENT CLEANUP PROJECT

LOCATION	SPV.0075.001 PAVEMENT CLEANUP PROJECT 2704-00-76 HR
PROJECT 2704-00-76	30
PROJECT 2704-00-76 TOTAL	30

PIPE UNDERDRAIN

STA	TO	STA	LOCATION	SPV.0090.002* PIPE UNDERDRAIN 6-INCH SPECIAL LF
501+54	-	555+10	WISCONN VALLEY WAY	8,230
558+00	-	604+25	WISCONN VALLEY WAY	7,130
			BRAUN ROAD	550
PROJECT 2704-00-76 TOTAL				15,910

*NOTE: ADDITIONAL QUANTITIES SHOWN ELSEWHERE

NOTE: CONNECT PIPE UNDERDRAIN TO CURBLINE INLETS

SURVEY PROJECT

LOCATION	SPV.0105.007 SURVEY PROJECT 2704-00-76 LS
PROJECT 2704-00-76	1
PROJECT 2704-00-76 TOTAL	1

REMOVAL AND DISPOSAL OF INVASIVE PLANT SPECIES

LOCATION	SPV.0170.001 REMOVAL AND DISPOSAL OF INVASIVE PLANT SPECIES STA
PROJECT 2704-00-76	5
PROJECT 2704-00-76 TOTAL	5

ALL ITEMS CATEGORY 1000 UNLESS OTHERWISE NOTED

S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\27040076_MQ.ppt PLOT DATE : 1/25/2019 4:05:29 PM PLOT BY : JOHNATHAN OLSON PLOT NAME : 27040076_MQ19 PLOT SCALE : 1:1

WISCONN VALLEY WAY & BRAUN ROAD

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

SUMMARY OF STATE FURNISHED MATERIALS - FOR INFORMATION ONLY

QUANTITY	UNIT	DESCRIPTION
1	EACH	TRAFFIC SIGNAL CONTROLLER AND CABINET
4	EACH	EVP DETECTOR HEAD WITH CONFIRMATION BEACON (HEADS A, B, C, D)
2	EACH	RADAR DETECTOR UNIT - ADVANCE (RE1, RE2)
1	EACH	CELL MODEM
1	EACH	ETHERNET SWITCH
2	EACH	STATE FURNISHED POLES TYPE 9
4	EACH	STATE FURNISHED POLES TYPE 10
2	EACH	STATE FURNISHED POLES TYPE 12
1	EACH	STATE FURNISHED MONOTUBE ARMS 15-FT
1	EACH	STATE FURNISHED MONOTUBE ARMS 20-FT
3	EACH	STATE FURNISHED MONOTUBE ARMS 25-FT
1	EACH	STATE FURNISHED MONOTUBE ARMS 30-FT
2	EACH	STATE FURNISHED MONOTUBE ARMS 40-FT
8	EACH	STATE FURNISHED LUMINAIRE ARMS STEEL 15-FT

WISCONSIN
SEAN P.
HOWELL
E-45160-6
MILWAUKEE,
WI
PROFESSIONAL ENGINEER

11.29.18

PROJECT NUMBER: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	MISCELLANEOUS QUANTITIES	SHEET NO: 293	E

FILE NAME: S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Reference Files\signals\WVW and Braun Quantities.ppt
PLOT DATE : 11/19/2018 4:18:22 PM PLOT BY : KAPUR & ASSOCIATES PLOT SCALE : 1:1

WISCONN VALLEY WAY & BRAUN ROAD

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

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CONDUIT

FROM	TO	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
CB1	PB1	--	30
PB1	PB2	--	75
PB2	PB3	--	38
PB2	PB4	--	128
PB4	PB5	--	20
PB4	PB6	200	--
PB4	PB7	--	70
PB7	PB8	--	134
PB8	PB9	24	--
PB8	PB10	--	46
PB8	PB11	--	152
PB11	PB12	--	138
PB12	PB13	--	35
PB12	PB14	--	72
PB14	PB15	26	--
PB14	PB16	--	108
PB16	PB17	41	--
PB16	PB18	--	154
PB18	PB19	--	38
PB19	PB20	--	18
PB18	PB21	200	--
PB18	PB22	--	158
PB22	PB23	--	21
PB22	PB24	--	60
PB24	PB25	--	140
PB25	PB26	44	--
PB25	PB27	--	142
PB27	PB28	--	59
PB27	PB29	--	154
PB29	PB30	--	32
PB29	PB31	--	60
PB31	PB32	--	122
PB32	PB33	74	--
PB32	PB34	--	69
PB34	CB1	--	30
PROJECT 2704-00-76 SUBTOTALS		609	2303

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

CONDUIT (CONT.)

FROM	TO	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
PB3	SB1	--	24
PB3	SB2	11	--
PB5	SB3	--	20
PB7	SB4	24	--
PB10	SB5	--	22
PB10	SB6	10	--
PB13	SB7	--	33
PB14	SB8	12	--
PB15	SB9	13	--
PB18	SB10	21	--
PB20	SB11	10	--
PB20	SB12	--	26
PB20	SB13	10	--
PB23	SB14	--	21
PB24	SB15	29	--
PB28	SB16	--	23
PB28	SB17	10	--
PB30	SB18	--	32
PB31	SB19	42	--
PROJECT 2704-00-76 SUBTOTALS		192	201
PROJECT 2704-00-76 TOTALS		801	2504

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

WISCONN VALLEY WAY & BRAUN ROAD

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

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LOOP DETECTOR SCHEDULE

LOOP NUMBER	HOMERUN PB	STATION	LOCATION	SIZE (FT)X(FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR LF	655.0700 LOOP DETECTOR LEAD IN CABLE LF	655.0800 LOOP DETECTOR WIRE LF
11	PB30	68BRW+24.63	18.0' RT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	86	175	268
12	PB30	68BRW+52.63	18.0' RT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	82	175	256
31	PB23	555+52.12	6.0' LT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	88	413	274
32	PB23	555+80.12	6.0' LT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	82	413	256
41	PB6	559+97.62	48.0' LT	6'X18'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	82	317	256
42	PB3	557+72.62	54.0' LT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	98	90	304
43	PB3	557+44.62	54.0' LT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	88	90	274
44	PB4	557+72.62	42.0' LT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	82	117	256
45	PB5	557+44.62	42.0' LT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	68	137	214
51	PB13	70BRW+55.70	18.0' RT	6'X20'	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	402	290
52	PB13	70BRW+27.70	18.0' RT	6'X20'	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	402	290
53	PB15	70BRE+55.65	18.0' LT	6'X20'	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	74	429	306
54	PB15	70BRE+27.65	18.0' LT	6'X20'	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	84	429	346
55	PB18	555+40.79	78.8' RT	6'X20'	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	471	290
56	PB19	70BRE+35.10	72.2' RT	6'X20'	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	509	394
57	PB19	555+46.75	67.8' RT	6'X20'	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	76	509	314
58	PB19	70BRE+24.05	66.2' RT	6'X20'	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	509	298
71	PB4	557+79.12	18.0' LT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	117	226
72	PB5	557+51.12	18.0' LT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	74	137	232
73	PB7	557+79.12	6.0' LT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	153	226
74	PB7	557+51.12	6.0' LT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	84	153	262
81	PB21	553+35.04	35.8' RT	6'X18'	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	124	671	630
82	PB19	555+55.62	42.0' RT	6'X20'	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	74	509	306
83	PB19	555+83.62	42.0' RT	6'X20'	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	78	509	322
84	PB23	555+55.62	30.0' RT	6'X20'	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	84	413	346
85	PB23	555+83.62	30.0' RT	6'X20'	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	82	413	338
S1	PB33	67BRW+28.07	30.0' LT	6'X6'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	82	125	256
S2	PB33	67BRW+28.07	18.0' LT	6'X6'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	106	125	328
S3	PB33	67BRW+28.07	6.0' LT	6'X6'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	130	125	400
S4	PB17	71BRE+28.81	30.0' RT	6'X10'	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	80	499	410
S5	PB17	71BRE+28.81	18.0' RT	6'X10'	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	104	499	530
S6	PB17	71BRE+28.81	6.0' RT	6'X10'	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	128	499	650
S7	PB26	554+97.20	61.2' LT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	90	336	280
S8	PB26	554+97.20	42.2' LT	6'X6'	5	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	128	336	650
S9	PB9	558+08.64	49.3' RT	6'X20'	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	92	245	286
S10	PB9	558+08.64	30.3' RT	6'X6'	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	130	245	530
							PROJECT 2704-00-76 TOTALS	3182	11696	12094

** LOCATION IS TO FRONT CENTER OF DETECTOR LOOP

*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

PROJECT NUMBER: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	MISCELLANEOUS QUANTITIES	SHEET NO: 295 E

FILE NAME: S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Reference Files\signals\WVW and Braun Quantities.ppt

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WISCONN VALLEY WAY & BRAUN ROAD

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

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PULL BOXES STEEL

PULL BOX NO.	STATION	LOCATION	653.0135 PULL BOXES STEEL 24X36-INCH EACH	653.0140 PULL BOXES STEEL 24X42-INCH EACH
PB1	68BRW+29.56	88.8' LT	--	1
PB2	557+84.73	94.9' LT	--	1
PB3	68BRW+76.53	66.0' LT	--	1
PB4	557+84.73	30.0' LT	--	1
PB5	557+64.46	30.0' LT	1	--
PB6	559+84.73	30.0' LT	1	--
PB7	557+84.73	5.8' RT	--	1
PB8	557+84.73	73.8' RT	--	1
PB9	558+08.64	69.8' RT	1	--
PB10	70BRW+25.45	50.4' LT	--	1
PB11	70BRW+87.54	63.5' LT	--	1
PB12	70BRW+87.54	6.0' RT	--	1
PB13	70BRW+51.70	6.0' RT	1	--
PB14	70BRE+87.49	6.0' LT	--	1
PB15	70BRE+62.02	6.0' LT	1	--
PB16	70BRE+87.49	48.8' RT	--	1
PB17	71BRE+28.81	44.6' RT	1	--
PB18	555+41.30	91.3' RT	--	1
PB19	555+56.25	56.3' RT	--	1
PB20	555+74.29	56.5' RT	1	--
PB21	553+48.62	78.0' RT	1	--
PB22	555+41.30	12.0' RT	--	1
PB23	555+62.68	12.0' RT	1	--
PB24	555+41.30	18.0' LT	--	1
PB25	555+41.30	88.6' LT	--	1
PB26	554+97.20	81.2' LT	1	--
PB27	68BRE+01.51	65.4' RT	--	1
PB28	68BRE+59.12	50.1' RT	--	1
PB29	68BRE+01.51	12.0' LT	--	1
PB30	68BRE+34.32	12.0' LT	1	--
PB31	68BRW+01.56	6.0' RT	--	1
PB32	68BRW+01.56	56.0' LT	--	1
PB33	67BRW+28.07	45.5' LT	1	--
PB34	68BRW+14.83	75.7' LT	--	1
		PROJECT 2704-00-76 TOTALS	12	22

*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

CONCRETE BASES

BASE NO.	STATION	LOCATION	654.0101 CONCRETE BASES TYPE 1 EACH	654.0110 CONCRETE BASES TYPE 10 EACH	654.0113 CONCRETE BASES TYPE 13 EACH	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
CB1	68BRW+21.04	83.6' LT	--	--	--	1
SB1	68BRW+66.61	43.2' LT	--	--	1	--
SB2	68BRW+82.18	56.1' LT	1	--	--	--
SB3	557+44.18	30.0' LT	--	1	--	--
SB4	557+60.12	5.8' RT	1	--	--	--
SB5	70BRW+04.01	42.9' LT	--	1	--	--
SB6	70BRW+18.26	42.6' LT	1	--	--	--
SB7	70BRW+18.23	6.0' RT	--	1	--	--
SB8	70BRE+75.38	6.0' LT	1	--	--	--
SB9	70BRE+48.93	6.0' LT	1	--	--	--
SB10	70BRE+47.64	78.4' RT	1	--	--	--
SB11	70BRE+13.37	59.9' RT	1	--	--	--
SB12	70BRE+18.22	43.1' RT	--	--	1	--
SB13	555+84.08	54.5' RT	1	--	--	--
SB14	555+84.05	12.0' RT	--	1	--	--
SB15	555+71.07	18.0' LT	1	--	--	--
SB16	68BRE+81.98	56.1' RT	--	1	--	--
SB17	68BRE+67.04	42.5' RT	1	--	--	--
SB18	68BRE+67.08	12.0' LT	--	1	--	--
SB19	68BRW+43.68	6.0' RT	1	--	--	--
	PROJECT 2704-00-76 TOTALS		11	6	2	1

*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

WISCONN VALLEY WAY & BRAUN ROAD

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

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UNDERGROUND TRAFFIC SIGNAL CABLE NO. 14

FROM	TO	655.024* CABLE TRAFFIC SIGNAL 7-14 AWG LF	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG LF	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG LF
CB1	SB1	--	157	--
CB1	SB2	--	--	144
CB1	SB3	215	--	--
CB1	SB4	235	--	--
CB1	SB5	--	380	--
CB1	SB6	--	--	368
CB1	SB7	558	--	--
CB1	SB8	537	--	--
CB1	SB9	581	--	--
CB1	SB10	--	631	--
CB1	SB11	707	--	--
CB1	SB12	--	723	--
CB1	SB13	--	707	--
CB1	SB14	572	--	--
CB1	SB15	497	--	--
CB1	SB16	--	393	--
CB1	SB17	--	380	--
CB1	SB18	282	--	--
CB1	SB19	--	196	--
PROJECT 2704-00-76 TOTALS		4184	3567	512

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ABOVE GROUND TRAFFIC SIGNAL CABLE NO. 14

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG LF	655.024* CABLE TRAFFIC SIGNAL 7-14 AWG LF
SB1	HEAD 9	58	--
SB1	HEAD 10	46	--
SB1	HEAD 11	34	--
SB1	HEAD 31	15	--
SB2	HEAD 22	19	--
SB2	HEAD 24	19	--
SB2	HEAD 32	15	--
SB3	HEAD 23	45	--
SB4	HEAD 27	19	--
SB5	HEAD 16	46	--
SB5	HEAD 17	34	--
SB5	HEAD 33	15	--
SB6	HEAD 6	--	22
SB6	HEAD 8	19	--
SB6	HEAD 34	15	--
SB7	HEAD 7	--	33
SB8	HEAD 20	19	--
SB9	HEAD 12	19	--
SB9	HEAD 19	19	--
SB10	HEAD 18	19	--
SB10	HEAD 36	15	--
SB11	HEAD 37	15	--
SB12	HEAD 2	58	--
SB12	HEAD 3	46	--
SB12	HEAD 4	34	--
SB12	HEAD 35	15	--
SB13	HEAD 15	19	--
SB13	HEAD 38	15	--
SB14	HEAD 28	39	--
SB14	HEAD 29	51	--
SB15	HEAD 21	19	--
SB16	HEAD 25	46	--
SB16	HEAD 26	34	--
SB16	HEAD 39	15	--
SB17	HEAD 1	19	--
SB17	HEAD 30	15	--
SB18	HEAD 13	27	--
SB18	HEAD 14	39	--
SB19	HEAD 5	--	22
PROJECT 2704-00-76 TOTALS		996	77

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PROJECT NUMBER: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	MISCELLANEOUS QUANTITIES	SHEET NO: 298 E

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WISCONN VALLEY WAY & BRAUN ROAD

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LIGHTING WIRE

FROM	TO	655.0320 CABLE TYPE UF 2-10 AWG GROUNDED LF	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF
CB1	SB3	215	--
SB3	LUMIN (2)	--	288
SB3	SB7	479	--
SB7	LUMIN (2)	--	288
CB1	SB18	282	--
SB18	LUMIN (2)	--	288
SB18	SB14	477	--
SB14	LUMIN (2)	--	288
PROJECT 2704-00-76 TOTALS		1453	1152

ELECTRICAL WIRE TRAFFIC SIGNALS

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
CB1	SB1	157
SB1	SB2	60
SB2	SB3	227
SB3	SB4	156
SB4	SB5	217
SB5	SB6	57
SB6	SB7	360
SB7	SB8	173
SB8	SB9	92
SB9	SB10	266
SB10	SB11	142
SB11	SB12	58
SB12	SB13	60
SB13	SB14	276
SB14	SB15	158
SB15	SB16	326
SB16	SB17	58
SB17	SB18	285
SB18	SB19	193
SB19	CB1	196
PROJECT 2704-00-76 SUBTOTALS		3517

ELECTRICAL WIRE TRAFFIC SIGNALS (CONTINUED)

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
PB1	CB1	34
PB2	CB1	75
PB3	SB1	43
PB4	SB3	75
PB5	SB3	39
PB7	SB4	43
PB8	SB5	104
PB10	SB5	41
PB11	SB7	189
PB12	SB7	104
PB13	SB7	52
PB14	SB8	31
PB15	SB9	32
PB16	SB8	101
PB18	SB10	40
PB19	SB12	79
PB20	SB12	45
PB22	SB14	77
PB23	SB14	40
PB24	SB15	48
PB25	SB15	135
PB27	SB16	118
PB28	SB16	42
PB29	SB18	100
PB30	SB18	51
PB31	SB19	61
PB32	CB1	73
PB34	CB1	34
PROJECT 2704-00-76 SUBTOTALS		1906
PROJECT 2704-00-76 TOTALS		5423

PROJECT NUMBER: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	MISCELLANEOUS QUANTITIES	SHEET NO: 299 E

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WISCONN VALLEY WAY & BRAUN ROAD

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

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TRAFFIC SIGNAL EVP DETECTOR CABLE

FROM	TO	655.0900 TRAFFIC SIGNAL EVP DETECTOR CABLE LF	655.0210 CABLE TRAFFIC SIGNAL 3-14 AWG LF
CB1	SB1 (HEAD A)	201	201
CB1	SB12 (HEAD B)	691	691
CB1	SB16 (HEAD C)	394	394
CB1	SB5 (HEAD D)	380	380
PROJECT 2704-00-76 TOTALS		1666	1666

ELECTRICAL SERVICE METER BREAKER PEDESTAL
BRAUN ROAD & WISCONN VALLEY WAY

BASE NO.	656.0200.301 ELECTRICAL SERVICE METER BREAKER PEDESTAL LS
CB1	1
PROJECT 2704-00-76 TOTAL	1

*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

PROJECT NUMBER: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	MISCELLANEOUS QUANTITIES	SHEET NO: 300 E

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CAST BASES, POLES, STANDARDS, MONOTUBE, PUSH BUTTONS, AND LUMINAIRES

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	657.0430 TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT EACH	STATE FURNISHED POLES TYPE 9**** EACH	STATE FURNISHED POLES TYPE 10**** EACH	STATE FURNISHED POLES TYPE 12**** EACH
SB1	--	--	--	--	--	--	1
SB2	1	1	--	--	--	--	--
SB3	--	--	--	--	--	1	--
SB4	1	1	--	--	--	--	--
SB5	--	--	--	--	1	--	--
SB6	1	--	1	--	--	--	--
SB7	--	--	--	--	--	1	--
SB8	1	1	--	--	--	--	--
SB9	1	1	--	--	--	--	--
SB10	1	1	--	--	--	--	--
SB11	1	--	--	1	--	--	--
SB12	--	--	--	--	--	--	1
SB13	1	1	--	--	--	--	--
SB14	--	--	--	--	--	1	--
SB15	1	1	--	--	--	--	--
SB16	--	--	--	--	1	--	--
SB17	1	1	--	--	--	--	--
SB18	--	--	--	--	--	1	--
SB19	1	--	1	--	--	--	--
PROJECT 2704-00-76 TOTALS	11	8	2	1	2	4	2

**** ITEM WILL BE PAID FOR UNDER SPV.0105.309 TRANSPORT AND INSTALL TRAFFIC SIGNAL, MONOTUBE, AND INTERSECTION LIGHTING MATERIALS

CAST BASES, POLES, STANDARDS, MONOTUBE, PUSH BUTTONS, AND LUMINAIRES (CONTINUED)

SIGNAL BASE NO.	STATE FURNISHED MONOTUBE ARMS 15-FT**** EACH	STATE FURNISHED MONOTUBE ARMS 20-FT**** EACH	STATE FURNISHED MONOTUBE ARMS 25-FT**** EACH	STATE FURNISHED MONOTUBE ARMS 30-FT**** EACH	STATE FURNISHED MONOTUBE ARMS 40-FT**** EACH	STATE FURNISHED LUMINAIRE ARMS STEEL 15-FT**** EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH	659.1125 LUMINAIRES UTILITY LED C EACH
SB1	--	--	--	--	1	--	1	--
SB2	--	--	--	--	--	--	1	--
SB3	--	--	1	--	--	2	1	2
SB4	--	--	--	--	--	--	--	--
SB5	--	--	1	--	--	--	1	--
SB6	--	--	--	--	--	--	1	--
SB7	1	--	--	--	--	2	1	2
SB8	--	--	--	--	--	--	--	--
SB9	--	--	--	--	--	--	--	--
SB10	--	--	--	--	--	--	--	--
SB11	--	--	--	--	--	--	1	--
SB12	--	--	--	--	1	--	1	--
SB13	--	--	--	--	--	--	1	--
SB14	--	--	--	1	--	2	1	2
SB15	--	--	--	--	--	--	--	--
SB16	--	--	1	--	--	--	1	--
SB17	--	--	--	--	--	--	1	--
SB18	--	1	--	--	--	2	1	2
SB19	--	--	--	--	--	--	--	--
PROJECT 2704-00-76 TOTALS	1	1	3	1	2	8	13	8

**** ITEM WILL BE PAID FOR UNDER SPV.0105.309 TRANSPORT AND INSTALL TRAFFIC SIGNAL, MONOTUBE, AND INTERSECTION LIGHTING MATERIALS

TRAFFIC SIGNAL AND PEDESTRIAN FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0174 TRAFFIC SIGNAL FACE 4S 12-INCH EACH	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH
1	SB17	1	--	--
2	SB12	1	--	--
3	SB12	1	--	--
4	SB12	1	--	--
5	SB19	--	1	--
6	SB6	--	1	--
7	SB7	--	1	--
8	SB6	1	--	--
9	SB1	1	--	--
10	SB1	1	--	--
11	SB1	1	--	--
12	SB9	1	--	--
13	SB18	1	--	--
14	SB18	1	--	--
15	SB13	1	--	--
16	SB5	1	--	--
17	SB5	1	--	--
18	SB10	1	--	--
19	SB9	1	--	--
20	SB8	1	--	--
21	SB15	1	--	--
22	SB2	1	--	--
23	SB3	1	--	--
24	SB2	1	--	--
25	SB16	1	--	--
26	SB16	1	--	--
27	SB4	1	--	--
28	SB14	1	--	--
29	SB14	1	--	--
30	SB17	--	--	1
31	SB1	--	--	1
32	SB2	--	--	1
33	SB5	--	--	1
34	SB6	--	--	1
35	SB12	--	--	1
36	SB10	--	--	1
37	SB11	--	--	1
38	SB13	--	--	1
39	SB16	--	--	1
PROJECT 2704-00-76 TOTALS		26	3	10

WISCONN VALLEY WAY & BRAUN ROAD

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

3

SIGNAL MOUNTING HARDWARE
BRAUN ROAD & WISCONN VALLEY WAY

LOCATION	658.5069.301 SIGNAL MOUNTING HARDWARE LS
BRAUN ROAD & WISCONN VALLEY WAY	1
PROJECT 2704-00-76 TOTAL	1

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WISCONN VALLEY WAY & BRAUN ROAD

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

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TRANSPORT AND INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET
BRAUN ROAD & WISCONN VALLEY WAY

LOCATION	SPV.0105.306 TRANSPORT AND INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET LS
BRAUN ROAD & WISCONN VALLEY WAY	1
PROJECT 2704-00-76 TOTAL	1

TRANSPORT AND INSTALL STATE FURNISHED RADAR
VEHICLE DETECTION SYSTEM
BRAUN ROAD & WISCONN VALLEY WAY

LOCATION	SPV.0105.307 TRANSPORT AND INSTALL STATE FURNISHED RADAR VEHICLE DETECTION SYSTEM LS
BRAUN ROAD & WISCONN VALLEY WAY	1
PROJECT 2704-00-76 TOTAL	1

3

TRANSPORT AND INSTALL STATE FURNISHED EMERGENCY VEHICLE
PREEMPTION (EVP) DETECTOR HEADS WITH CONFIRMATION BEACONS
BRAUN ROAD & WISCONN VALLEY WAY

LOCATION	SPV.0105.308 TRANSPORT AND INSTALL STATE FURNISHED EMERGENCY VEHICLE PREEMPTION (EVP) DETECTOR HEADS WITH CONFIRMATION BEACONS LS
BRAUN ROAD & WISCONN VALLEY WAY	1
PROJECT 2704-00-76 TOTAL	1

TRANSPORT AND INSTALL TRAFFIC SIGNAL, MONOTUBE,
AND INTERSECTION LIGHTING MATERIALS
BRAUN ROAD & WISCONN VALLEY WAY

LOCATION	SPV.0105.309 TRANSPORT AND INSTALL TRAFFIC SIGNAL, MONOTUBE, AND INTERSECTION LIGHTING MATERIALS LS
BRAUN ROAD & WISCONN VALLEY WAY	1
PROJECT 2704-00-76 TOTAL	1

PROJECT NUMBER: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	MISCELLANEOUS QUANTITIES	SHEET NO: 304 E

FILE NAME: S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Reference Files\signals\WVW and Braun Quantities.ppt
PLOT DATE : 11/19/2018 4:18:22 PM PLOT BY : KAPUR & ASSOCIATES PLOT SCALE : 1:1

COMMUNICATION

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

3

CONDUIT

FROM	TO	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF
CB1 (S51-1464)	CV 101	20
CV 101	CV 558	206
PROJECT 2704-00-76 TOTALS		226

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

ELECTRICAL WIRE TRAFFIC SIGNALS

FROM	TO	655.0510 ELECTRICAL WIRE TRAFFIC SIGNALS 12 AWG LF
CB1 (S51-1464)	CV 101	43
CV 101	CV 558	229
PROJECT 2704-00-76 TOTALS		272

VAULTS

BASE NO.	STATION	LOCATION	673.0105 COMMUNICATION VAULT TYPE 1 EACH
CV 101	68BRW+34.53	68.0' LT	1
		PROJECT 2704-00-76 TOTAL	1

*** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

FILE NAME: S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Reference Files\signals\WVW and Braun Quantities.ppt

PLOT DATE : 11/19/2018 4:18:22 PM PLOT BY : KAPUR & ASSOCIATES PLOT SCALE : 1:1

COMMUNICATION

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

FIBER OPTIC

LOCATION	678.0300* FIBER OPTIC SPLICE EACH
EXCV411	14
EXCV805	4
EXCV123	14
EXCV855-1	4
TOTAL	36

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE



TRANSPORT AND INSTALL STATE FURNISHED FO CABLE PIGTAIL 8-CT
CTH KR & 100TH AVENUE/FOXCONN DRIVEWAY

LOCATION	SPV.0105.310 LS
CB1 (S51-1471)	1
TOTAL	1

SUMMARY OF STATE FURNISHED MATERIALS

QUANTITY	UNIT	DESCRIPTION
128	LF	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL 8-CT

TRANSPORT AND INSTALL STATE FURNISHED FO CABLE PIGTAIL 8-CT
CTH H & CTH KR

LOCATION	SPV.0105.311 LS
CB1 (S51-1453)	1
TOTAL	1

SUMMARY OF STATE FURNISHED MATERIALS

QUANTITY	UNIT	DESCRIPTION
124	LF	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL 8-CT

COMMUNICATION

ALL ITEMS ARE CATEGORY 3000 UNLESS OTHERWISE NOTED

3

TRANSPORT AND INSTALL STATE FURNISHED FO CABLE PIGTAIL 8-CT
BRAUN ROAD & FOXCONN DRIVEWAY

LOCATION	SPV.0105.312 LS
CB1 (S51-1469)	1
TOTAL	1

SUMMARY OF STATE FURNISHED MATERIALS

QUANTITY	UNIT	DESCRIPTION
127	LF	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL 8-CT

TRANSPORT AND INSTALL STATE FURNISHED FO CABLE PIGTAIL 8-CT
CTH H & BRAUN ROAD

LOCATION	SPV.0105.313 LS
CB1 (S51-1470)	1
TOTAL	1

SUMMARY OF STATE FURNISHED MATERIALS

QUANTITY	UNIT	DESCRIPTION
404	LF	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL 8-CT

ITS CONDUIT

CATEGORY	ROADWAY	ITEM ID	LINEAR DISTANCE	671.0122 CONDUIT HDPE 2-DUCT 2-INCH LF	655.0510 ELECTRICAL WIRE TRAFFIC SIGNALS 12 AWG LF
4000	WISCONN VALLEY WAY				
		CV502 - CV513	1175	1,175	1,184
		CV513 - CV525	1200	1,200	1,209
		CV525 - CV537	1175	1,175	1,184
		CV537 - CV549	1160	1,160	1,169
		CV549 - CV555	690	690	699
		CV555 - CV558	250	250	259
		CV555 - EXCV71	125	125	134
		CV558 - CV570	1245	1,245	1,254
		CV570 - CV582	1155	1,155	1,164
		CV582 - CV594	1220	1,220	1,229
		CV594 - CV605	1160	1,160	1,169
		TOTALS		10,555	10,654

ITS COMMUNICATION VAULTS

CATEGORY	ROADWAY	ITEM ID	673.0105 COMMUNICATION VAULT TYPE 1 EACH	673.0200 TRACER WIRE MARKER POSTS EACH
4000	WISCONN VALLEY WAY			
		CV502	1	1
		CV513	1	1
		CV525	1	1
		CV537	1	1
		CV549	1	1
		CV555	1	1
		CV558	1	1
		CV570	1	1
		CV582	1	1
		CV594	1	1
		CV605	1	1
	TOTALS		11	11

SUMMARY OF SLACK IN VAULTS	
CABLE OR WIRE	**VAULT**
GROUND / TRACER WIRE (NO. 12)	9-FT
FIBER OPTIC CABLE	100-FT

ITS FIBER

CATEGORY	ROADWAY	ITEM ID	LINEAR DISTANCE	678.0072 INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 72-CT LF
4000	WISCONN VALLEY WAY			
		EXCV376 - EXCV3746L	150	250
		EXCV376L - CV502	115	215
		CV502 - CV513	1175	1,275
		CV513 - CV525	1200	1,300
		CV525 - CV537	1175	1,275
		CV537 - CV549	1160	1,260
		CV549 - CV555	690	790
		CV555 - CV558	250	350
		CV555 - EXCV71	125	225
		CV558 - CV570	1245	1,345
		CV570 - CV582	1155	1,255
		CV582 - CV594	1220	1,320
		CV594 - CV605	1160	1,260
		CV605 - EXCV159	95	195
		SUBTOTAL		12,315
4000	BRAUN ROAD			
		CV555 - EXCV71	125	225
		EXCV71 - EXCV88	1645	1,745
		EXCV88 - EXCV99	1190	1,290
		EXCV99 - EXCV101	200	300
		EXCV101 - EXCV112	1050	1,150
		EXCV112 - EXCV123	1100	1,200
		EXCV123 - EXCV133	1000	1,100
		EXCV133 - EXCV141	875	975
		EXCV141 - EXCV143	200	300
		EXCV143 - EXCV150	630	730
		EXCV150 - EXCV855-1	520	620
		SUBTOTAL		9,635
4000	CTH KR			
		EXCV01N - EXCV01S	610	710
		EXCV01S - EXCV02	350	450
		EXCV02 - EXCV364	250	350
		EXCV364 - EXCV370	610	710
		EXCV370 - EXCV374	350	450
		EXCV374 - EXCV376	250	350
		EXCV376 - EXCV389	680	780
		EXCV389 - EXCV402	1305	1,405
		EXCV402 - EXCV410	775	875
		EXCV410 - EXCV411	140	240
		EXCV411 - EXCV424	1290	1,390
		EXCV424 - EXCV437	1300	1,400
		EXCV437 - EXCV447	1000	1,100
		EXCV447 - EXCV803	275	375
		EXCV803 - EXCV805	180	280
		SUBTOTAL		10,865
		TOTAL		32,815

WISCONSIN
MARIA J. DONNELLY
E-37908
MILWAUKEE
WI
PROFESSIONAL ENGINEER

3

ITS COMMUNICATIONS

CATEGORY	ROADWAY	ITEM ID	678.0300 FIBER OPTIC SPLICE EACH
4000			
	IH 94 AND CTH KR	EXCV01N	4
	CTH KR AND WISCONN VALLEY WAY	EXCV376	14
	WISCONN VALLEY WAY AND BRAUN ROAD	CV555	16
	WISCONN VALLEY WAY AND STH 11	EXCV159	2
			36

ITS EQUIPMENT

CATEGORY	ROADWAY	ITEM ID	LOCATION	677.0200 INSTALL CAMERA ASSEMBLY EACH
4000				
	WISCONN VALLEY WAY AND BRAUN ROAD	CCTV-51-0231	SB18	1
		TOTALS	TOTALS	1

MISCELLANEOUS ITS ITEMS

CATEGORY	ITEM I.D.	670.0100.001 FIELD SYSTEM INTEGRATOR FTMS LS	670.0200.001 ITS DOCUMENTATION FTMS LS	678.0500.001 FIELD COMMUNICATION SYSTEM TESTING FTMS LS
4000	MISCELLANEOUS	1	1	1
	TOTAL	1	1	1

3

3

LIGHTING AND MISCELLANEOUS - FINAL

CATEGORY	DESCRIPTION	LOCATION	653.0135 PULL BOXES STEEL 24x36- INCH EACH	654.0105 CONCRETE BASES TYPE 5 EACH	654.0230 CONCRETE CONTROL CABINET BASES TYPE L30 EA	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE (NOTE 1) EACH
5000	PULLBOX PB-KW6	STA. 505+23.66, 52.94' RT	1	--	--	--
	BASE KW-21	STA. 505+23.28, 6,77' RT	--	1	--	1
	BASE KW-22	STA. 505+45.37, 0.00' LT	--	1	--	1
	BASE KW-23	STA. 507+68.28, 0.00' LT	--	1	--	1
	BASE KW-24	STA. 509+91.39, 0.00' LT	--	1	--	1
	BASE KW-25	STA. 512+12.28, 0.00' LT	--	1	--	1
	BASE KW-26	STA. 514+36.81, 0.00' LT	--	1	--	1
	BASE KW-27	STA. 516+61.88, 0.00' LT	--	1	--	1
	BASE KW-28	STA. 518+85.78, 0.00' LT	--	1	--	1
	BASE KW-29	STA. 521+09.06, 0.00' LT	--	1	--	1
	BASE KW-30	STA. 523+32.14, 0.00' LT	--	1	--	1
	BASE KW-31	STA. 525+56.52, 0.00' LT	--	1	--	1
	BASE KW-32	STA. 527+77.66, 0.00' LT	--	1	--	1
	BASE KW-33	STA. 529+99.82, 0.00' LT	--	1	--	1
	BASE KW-34	STA. 532+22.04, 0.00' LT	--	1	--	1
	BASE BW-16	STA. 534+43.64, 0.00' LT	--	1	--	1
	BASE BW-15	STA. 536+66.20, 0.00' LT	--	1	--	1
	BASE BW-14	STA. 538+89.55, 0.00' LT	--	1	--	1
	BASE BW-13	STA. 541+13.88, 0.00' LT	--	1	--	1
	BASE BW-12	STA. 543+24.52, 0.00' LT	--	1	--	1
	BASE BW-11	STA. 545+41.50, 0.00' LT	--	1	--	1
	BASE BW-10	STA. 547+48.52, 0.00' LT	--	1	--	1
	BASE BW-9	STA. 549+60.16, 0.00' LT	--	1	--	1
	BASE BW-8	STA. 551+66.83, 0.00' LT	--	1	--	1
	BASE BW-7	STA. 553+78.60, 18.59' LT	--	1	--	1
	PULL BOX PB-BW8	STA. 553+81.58, 77.98' RT	1	--	--	--
	PULL BOX PB-BW7	STA. 70BRE+93.77, 66.23' RT	1	--	--	--
	PULL BOX PB-BW6	STA. 70BRE+94.37, 6.37' LT	1	--	--	--
	PULL BOX PB-BW5	STA. 70BRE+88.18, 133.82' LT	1	--	--	--
	LCC-BW CONCRETE BASE	STA. 557+89.78, 112.20' RT	--	--	1	--
	PULL BOX PB-BW4	STA. 558+18.79, 66.84' RT	1	--	--	--
	PULL BOX PB-BW3	STA. 558+17.55, 12.09' RT	1	--	--	--
	PULL BOX PB-BW2	STA. 558+15.34, 86.06' LT	1	--	--	--
	PULL BOX PB-BW1	STA. 66BRE+81.75, 89.50' LT	1	--	--	--
	BASE BW-6	STA. 66BRE+79.83, 40.56' LT	--	1	--	1

(CONTINUED ON NEXT PAGE)

(CONTINUED)

LIGHTING AND MISCELLANEOUS - FINAL

CATEGORY	DESCRIPTION	LOCATION	653.0135 PULL BOXES STEEL 24x36- INCH EACH	654.0105 CONCRETE BASES TYPE 5 EACH	654.0230 CONCRETE CONTROL CABINET BASES TYPE L30 EA	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE (NOTE 1) EACH
	BASE BW-5	STA. 64BRE+49.73, 28.45' LT	--	1	--	1
	BASE BW-4	STA. 63BRE+0.44, 27.04' LT	--	1	--	1
	BASE BW-3	STA. 61BRE+10.99, 25.76' LT	--	1	--	1
	BASE BW-2	STA. 59BRE+21.28, 23.98' LT	--	1	--	1
	BASE BW-1	STA. 57BRE+31.96, 16.82' LT	--	1	--	1
	BASE BW-53	STA. 55BRE+42.21, 06.73' LT	--	1	--	1
	BASE BW-41	STA. 559+55.21, 12.48' RT	--	1	--	1
	BASE BW-42	STA. 561+61.95, 5.00' RT	--	1	--	1
	BASE BW-43	STA. 563+72.74, 0.00' LT	--	1	--	1
	BASE BW-44	STA. 565+83.96, 0.00' LT	--	1	--	1
	BASE BW-45	STA. 567+94.96, 0.00' LT	--	1	--	1
	BASE BW-46	STA. 570+05.96, 0.00' LT	--	1	--	1
	BASE BW-47	STA. 572+17.05, 0.00' LT	--	1	--	1
	BASE BW-48	STA. 574+35.00, 0.00' LT	--	1	--	1
	BASE BW-49	STA. 576+39.71, 0.00' LT	--	1	--	1
	BASE BW-50	STA. 578+45.00, 0.00' LT	--	1	--	1
	BASE BW-51	STA. 580+62.37, 0.00' LT	--	1	--	1
	BASE BW-52	STA. 582+73.43, 0.00' LT	--	1	--	1
	BASE DW-31	STA. 584+84.43, 0.00' LT	--	1	--	1
	BASE DW-30	STA. 586+95.48, 0.00' LT	--	1	--	1
	BASE DW-29	STA. 589+06.48, 0.00' LT	--	1	--	1
	BASE DW-28	STA. 591+17.48, 0.00' LT	--	1	--	1
	BASE DW-27	STA. 593+29.03, 0.00' LT	--	1	--	1
	BASE DW-26	STA. 595+39.78, 0.00' LT	--	1	--	1
	BASE DW-25	STA. 597+50.94, 0.00' LT	--	1	--	1
	BASE DW-24	STA. 599+62.09, 0.00' LT	--	1	--	1
	BASE DW-23	STA. 601+73.24, 0.00' LT	--	1	--	1
	BASE DW-22	STA. 603+84.17, 5.34' LT	--	1	--	1
	PULLBOX PB-KW7	STA. 501+83.33, 53.88' RT	1	--	--	--
	CONCRETE BASE LCC-WV	STA. 501+82.25, 87.70' RT	--	--	1	--
	PULL BOX PB-BW9	STA. 70BRE+80.58, 6.37' LT	1	--	--	--
	PULL BOX PB-BW10	STA. 70BRE+78.49, 114.09' LT	1	--	--	--
	LCC-WW CONCRETE BASE	STA. 557+96.59, 104.15' RT	--	--	1	--
	PULL BOX PB-BW11	STA. 558+37.43, 64.65' RT	1	--	--	--
	PULL BOX PB-BW12	STA. 558+38.83, 10.89' RT	1	--	--	--
5000		TOTAL	14	53	3	53

NOTES

1. 1/8" ALUMINUM OR STEEL PLATE TO COVER THE TOP OPENING OF THE TRANSFORMER BASE.
COVER TO BE BOLTED DOWN. COVER TO PREVENT WATER FROM ENTERING THE TRANSFORMER BASE.
COST OF COVER TO BE INCIDENTAL TO THE COST OF THE TRANSFORMER BASE.
2. NO POLES, ARMS, LUMINAIRES, WIRING NOR LIGHTING CONTROL CABINETS FURNISHED UNDER THIS CONTRACT

3

LIGHTING - WIRE AND CONDUIT - FINAL

CATEGORY	FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 -INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3 -INCH LF
5000	LCC-WV	PB-KW7	--	35
	PB-KW7	PB-KW6	--	150
	PB-KW6	BASE KW-21	--	52
	BASE KW-21	BASE KW-22	245	--
	BASE KW-22	BASE KW-23	250	--
	BASE KW-23	BASE KW-24	252	--
	BASE KW-24	BASE KW-25	250	--
	BASE KW-25	BASE KW-26	256	--
	BASE KW-26	BASE KW-27	253	--
	BASE KW-27	BASE KW-28	254	--
	BASE KW-28	BASE KW-29	253	--
	BASE KW-29	BASE KW-30	250	--
	BASE KW-30	BASE KW-31	255	--
	BASE KW-31	BASE KW-32	251	--
	BASE KW-32	BASE KW-33	255	--
	BASE KW-33	BASE KW-34	258	--
	BASE KW-34	BASE BW-16	253	--
	BASE BW-16	BASE BW-15	251	--
	BASE BW-15	BASE BW-14	255	--
	BASE BW-14	BASE BW-13	256	--
	BASE BW-13	BASE BW-12	250	--
	BASE BW-12	BASE BW-11	253	--
	BASE BW-11	BASE BW-10	241	--
	BASE BW-10	BASE BW-9	233	--
	BASE BW-9	BASE BW-8	241	--
	BASE BW-8	BASE BW-7	231	--
	BASE BW-7	PB-BW8	--	102
	PB-BW8	PB-BW7	--	226
	PB-BW7	PB-BW9	--	73
	PB-BW9	PB-BW10	--	109
	PB-BW10	LCC-WW	--	65
	LCC-WW	PB-BW11	--	65
	PB-BW11	PB-BW12	--	59
	PB-BW6	STUB	88	--
	PB-BW6	PB-BW5	--	128
	PB-BW5	LCC-BW	--	40

(CONTINUED ON NEXT PAGE)

(CONTINUED)

LIGHTING - WIRE AND CONDUIT - FINAL

CATEGORY	FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 -INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3 -INCH LF
	LCC-BW	PB-BW4	--	60
	PB-BW4	PB-BW3	--	60
	PB-BW3	PB-BW2	--	104
	PB-BW2	PB-BW1	--	220
	PB-BW1	BASE BW-6	--	56
	BASE BW-6	BASE BW-5	201	--
	BASE BW-5	BASE BW-4	222	--
	BASE BW-4	BASE BW-3	221	--
	BASE BW-3	BASE BW-2	218	--
	BASE BW-2	BASE BW-1	213	--
	BASE BW-1	BASE BW-53	202	
	PB-BW12	BASE BW-41	146	--
	BASE BW-41	BASE BW-42	231	--
	BASE BW-42	BASE BW-43	241	--
	BASE BW-43	BASE BW-44	238	--
	BASE BW-44	BASE BW-45	241	--
	BASE BW-45	BASE BW-46	241	--
	BASE BW-46	BASE BW-47	243	--
	BASE BW-47	BASE BW-48	244	--
	BASE BW-48	BASE BW-49	242	--
	BASE BW-49	BASE BW-50	243	--
	BASE BW-50	BASE BW-51	246	--
	BASE BW-51	BASE BW-52	243	--
	BASE BW-52	BASE DW-31	241	--
	BASE DW-31	BASE DW-30	240	--
	BASE DW-30	BASE DW-29	242	--
	BASE DW-29	BASE DW-28	241	--
	BASE DW-28	BASE DW-27	240	--
	BASE DW-27	BASE DW-26	238	--
	BASE DW-26	BASE DW-25	237	--
	BASE DW-25	BASE DW-24	238	--
	BASE DW-24	BASE DW-23	238	--
	BASE DW-23	BASE DW-22	237	--
	BASE DW-22	STUB	159	--
5000		TOTALS	12461	1604

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
2704-00-06		
FEDERAL PROJECT NUMBER	4.01	

PLAT OF RIGHT-OF-WAY REQUIRED FOR

WISCONN VALLEY WAY

(CTH KR/1ST STREET - STH 11/DURAND AVENUE)

STATE HIGHWAY — RACINE CO.

CONSTRUCTION PROJECT NUMBER
2704-00-76



CONVENTIONAL SYMBOLS

- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- NEW REFERENCE LINE
- NEW R/W LINE
- EXISTING R/W OR HE LINE
- PROPERTY LINE
- LOT, TIE & OTHER MINOR LINES
- SLOPE INTERCEPT
- CORPORATE LIMITS
- UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) — W (TYPE)
- NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
- TEMPORARY LIMITED EASEMENT AREA
- EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
- TRANSMISSION STRUCTURES
- BUILDING — TO BE REMOVED
- BRIDGE

- SECTION CORNER SYMBOL
- SECTION CORNER MONUMENT
- GEODETIC SURVEY MONUMENT
- SIXTEENTH CORNER MONUMENT
- SIGN — SIGN
- OFF-PREMISE SIGN (41-25)
- R/W MONUMENT (TO BE SET)
- NON-MONUMENTED R/W POINT
- FOUND IRON PIN (1-INCH UNLESS NOTED) IP

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE		
TELEPHONE POLE		
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)		

- ACCESS RESTRICTED BY ACQUISITION
- NO ACCESS (BY STATUTORY AUTHORITY)
- ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
- NO ACCESS (NEW HIGHWAY)
- PARCEL NUMBER 25 — UTILITY NUMBER 40
- PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC	PROPERTY LINE	PL
AHEAD	AH	RECORDED AS	(100')
ALUMINUM	ALUM	REEL / IMAGE	R/I
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RESTICTIVE DEVELOPMENT EASEMENT	RDE
CENTERLINE	C/L	RIGHT	RT
CERTIFIED SURVEY MAP	CSM	RIGHT OF WAY	R/W
CONCRETE	CONC	SECTION	SEC
COUNTY	CO	SEPTIC VENT	SEPV
COUNTY TRUNK HIGHWAY	CTH	SQUARE FEET	SF
DISTANCE	DIST	STATE TRUNK HIGHWAY	STH
CORNER	COR	STATION	STA
DOCUMENT NUMBER	DOC	TELEPHONE PEDESTAL	TP
EASEMENT	EASE	TEMPORARY LIMITED EASEMENT	TLE
EXISTING	EX	TRANSPORTATION PROJECT PLAT	TPP
GAS VALVE	GV	UNITED STATES HIGHWAY	USH
GRID NORTH	GN	VOLUME	V
HIGHWAY EASEMENT	HE		
IDENTIFICATION	ID		
LAND CONTRACT	LC		
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS		
NUMBER	NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		
POINT OF COMPOUND CURVE	PCC		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ /DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL UTILITY SYMBOLS

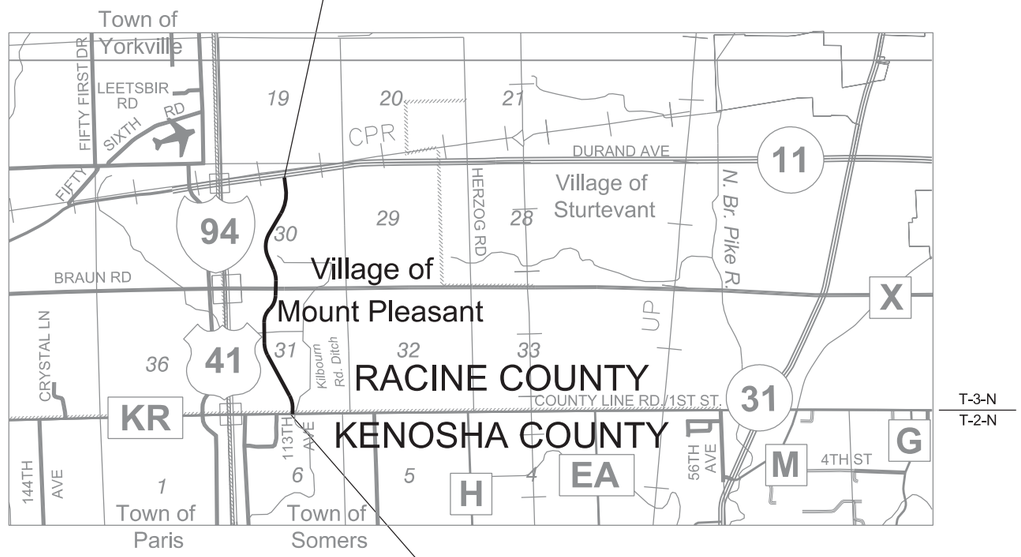
- W — WATER
- G — GAS
- T — TELEPHONE
- OH — OVERHEAD TRANSMISSION LINES
- E — ELECTRIC
- TV — CABLE TELEVISION
- FO — FIBER OPTIC
- SAN — SANITARY SEWER
- SS — STORM SEWER

N

END RELOCATION ORDER

STA. 605+65.96

678.57 FEET SOUTH AND 161.59 FEET WEST OF THE NORTH 1/4 CORNER OF SECTION 30 T3N - R22E
Y=174971.62
X=569454.15



T-3-N
T-2-N

R-21-E | R-22-E

BEGIN RELOCATION ORDER

STA. 501+25.00

189.62 FEET NORTH AND 107.59 FEET EAST OF THE SOUTH 1/4 CORNER OF SECTION 31 T3N - R22E
Y=165219.74
X=596789.43

LAYOUT

SCALE 0 — 1 MI.

TOTAL NET LENGTH OF CENTERLINE: 1.997 MILES

NOTES;

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS) RACINE COUNTY NAD 83 (1997) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4 " REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISCONSIN DOT SOUTHEAST REGION SURVEY.
RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS.

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 LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

THE HIGH ACCURACY REFERENCE NETWORK (HARN) POINTS USED ON PROJECT WERE:
1) MOUNT PLEASANT GPS
2) YORKVILLE E. GPS

WISCONSIN
KURT E. KRUGER
S-1946
CASCADE, WI
LAND SURVEYOR

November 29, 2018

REVISION DATE	VILLAGE OF MOUNT PLEASANT
	APPROVED BY:
	DATE: _____ (Signature)

314

E

FILE NAME : S:\DOT\DOT_SE\180049_Foxxconn_roads_data-collection\Survey\Plats\2704-00-06-WVW\CDS\040401_RT.dgn
APPRAISAL PLAT DATE :

PLOT DATE : 11/29/2018 PLOT BY : kkruger PLOT NAME : PLOT SCALE : 1:3200

4.

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.

* DENOTES AREA COMPUTED

PROJECT FUNDING I.D.	PARCEL NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED	TOTAL ACRES	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	TOTAL REMAINING ACRES	TLE ACRES	PLE ACRES	PARCEL NUMBER
1320-25-00	865	4.04, 4.05, 4.06, 4.07	VILLAGE OF MOUNT PLEASANT	FEE, PLE, TLE	VAST	51.837	0	51.837	VAST	0.465	8.55	865

PROJECT FUNDING I.D.	UTILITY NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED	UTILITY NUMBER
1320-25-00	900	4.04, 4.05, 4.06	WE ENERGIES - ELEC	ROR	900
1320-25-00	901	4.05	WE ENERGIES - GAS	ROR	901
1320-25-00	903	4.06	ATT WISCONSIN	ROR	903

4

4

REVISION DATE	DATE: 11/29/18	SCALE, FEET 0 N/A	WISCON VALLEY WAY	STATE R/W PROJECT NUMBER 2704-00-06	PLAT SHEET 4.02	
			COUNTY: RACINE	CONSTRUCTION PROJECT NUMBER 2704-00-76	PS&E SHEET 315	E

FILE NAME : S:\DOT\DOT_SE\180049_Foxxconn_roads_data-collection\Survey\Plats\2704-00-06-WVW\CDS\040402_RS.dgn PLOT DATE : 11/29/2018 PLOT BY : kkruger PLOT NAME : PLOT SCALE : 1:200

T-3-N
T-2-N
SECTION 36
SECTION 25
N
TOWN OF PARIS
TOWN OF YORKVILLE
CTH KR/CNTY LINE RD./1ST ST.
60TH RD./BRAUN RD.
TOWN OF YORKVILLE
4
4
R-21-E
R-22-E
IH-94
NW-NW
SW-SW
NW-SW
SW-NW
NW-NW
SW-SW
NW-SW
SW-NW
NW-NW
SW-SW
VILLAGE OF MT PLEASANT
VILLAGE OF MT PLEASANT
KENOSHA COUNTY
RACINE COUNTY
NE-NW
SE-SW
NE-SW
SE-NW
NE-NW
SE-SW
NE-SW
SE-NW
NE-NW
SE-SW
NE-NW
SE-SW
530
540
520
550
560
570
580
590
600
510
865
SECTION 31
SECTION 30
PL
SHEET 4.05
SHEET 4.06
SHEET 4.04
SHEET 4.07
TOWN OF SOMERS
SW-SE
NW-SE
SW-NE
NW-NE
SW-SE
NW-SE
SW-NE
NW-NE
SW-SE
PL
PL
PL
STH 11/DURAND AVE.
BEGIN RELOCATION
STA 501+25.00
END RELOCATION
STA 605+65.96

REVISION DATE	DATE: 11/29/18	SCALE, FEET 0 400 800	WISCON VALLEY WAY	STATE R/W PROJECT NUMBER 2704-00-06	PLAT SHEET 4.03	
			COUNTY: RACINE	CONSTRUCTION PROJECT NUMBER 2704-00-76	PS&E SHEET 316	E

FILE NAME : S:\DOT\DOT_SE\180049_Foxxconn_roads_data-collection\Survey\Plats\2704-00-06-WVW\CDS\040403_RL.dgn PLOT DATE : 11/29/2018 PLOT BY : kkruger PLOT NAME : PLOT SCALE : 1:800

HWY	BASIS OF EXISTING R/W AND ACCESS CONTROL	YEAR	WIDTH
CTH KR	RC112117	2018	191

GN

1/16 TH LINE

TOWN OF SOMERS

NE-NW

65

191'

CONCRETE MONUMENT W/ BRASS CAP
Y=165034.18
X=596404.64
CLOSING CORNER

WIS GAS & ELEC CO.
EASEMENT DOC. NO. 469130 - 1970
NO WIDTH GIVEN

CAST IRON MONUMENT W/ BRASS CAP
Y=165030.12
X=596681.84

70

CTH KR/CNTY LINE RD./1ST ST.

277.23' N89°9'35"W

501+25.01 PRW601 110.00'

BEGIN RELOCATION ORDER
STA. 501+25.00
Y=165219.74
X=596789.43

108.73' N0°44'36"E

PC 502+33.74 PRW623 110.00'

3.15' N89°9'35"W

191.02' N0°13'30"E

26.09' N89°15'24"W

105.13'

75

500

234.74' N0°44'36"E

216.85'

108.74' N0°44'36"E

500+00.00

2553.88' S89°15'24"E

PRW779 501+25.00 110.00'

PRW778 PC 502+33.74 110.00'

234.39'

PLE791 501+75.00 344.39'

PLE792 501+25.00 344.39'

L1 189.62' S0°33'27"W

PLE745 501+75.00 363.61'

191'

PLE RC112117

CONCRETE MONUMENT W/ BRASS CAP
Y=164999.81
X=599017.90

KENOSHA COUNTY

CURVE 1
PI STA.505+17.05
Y : 165611.75
X : 596794.52
DELTA = 29°05'18"
D = 5°14'49"
T = 283.31'
L = 554.39
R = 1092.00
PC = STA. 502+33.74
PT = STA. 507+88.13

PT 507+88.13 110.00' PRW610

865 MT. PLEASANT

SE-SW

900 WE ENERGIES - ELECTRIC
LAND RIGHTS IN EXISTING
R/W - DOC. NO. 469130

VILLAGE OF MOUNT PLEASANT

420'

95'

1973.53' N28°20'42"W

WISCONN VALLEY WAY

515

520

110'

1973.53' S28°20'42"E

510

110'

95'

895'

L = 498.55
R = 982.00
LC = 493.21
LCB = N 13°48'03" W

PRW611 PC 527+61.66 110.00'

L = 584.13
R = 1202.00
LC = 576.40
LCB = N 14°25'23" W

1413.23'

1531.76'

CONCRETE MONUMENT W/ SEWRPC ALUM CAP
Y=167731.39
X=594140.50

CURVE 2

PC 527+61.66

239.26'

525

PC527+61.66 PRW618 110.00'

2552.12' S89°3'40"E TOTAL

CURVE 2
PI STA.530+32.34
Y : 167836.24
X : 595594.51
DELTA = 27°50'37"
D = 5°14'49"
T = 270.68'
L = 530.67
R = 1092.00
PC STA.527+61.66
Y : 167598.00
X : 595723.02
PT STA.532+92.33
Y : 168106.91
X : 595592.14

L = 477.22
R = 982.00
LC = 472.53
LCB = S 14°25'23" E

865 MT. PLEASANT

NE-SW

VILLAGE OF MOUNT PLEASANT

2659.47' S0°13'30"W PL

CAST IRON MONUMENT W/ BRASS CAP
Y=167689.57
X=596692.28

PT 507+88.13 110.00' PRW619

CURVE 8
DETENTION POND
CSM NO. 1716-5-246

865

503+52.11 110.00' PLE739

503+31.70 368.87' PLE740

L = 610.24
R = 1202.00
LC = 603.71
LCB = S 13°48'03" E

865 MT. PLEASANT

SW-SE

CURVE 8
L = 130.29
R = 1202.00
LC = 130.23
LCB = N 02°21'43" W

NW-SE

RACINE COUNTY

	DISTANCE	BEARING
L1	50.00'	N0°44'40"E
L2	19.22'	S89°15'24"E

REVISION DATE	DATE: 11/29/18	SCALE, FEET 0 100 200	WISCON VALLEY WAY	STATE R/W PROJECT NUMBER 2704-00-06	PLAT SHEET 4.04	
			COUNTY: RACINE	CONSTRUCTION PROJECT NUMBER 2704-00-76	PS&E SHEET 317	E

FILE NAME : S:\DOT\DOT_SE\180049_Foxxconn_roads_data-collection\Survey\Plats\2704-00-06-WVW\CDS\040404_RP.dgn PLOT DATE : 11/29/2018 PLOT BY : kkruger PLOT NAME : PLOT SCALE : 1:200

WISDOT/CADDS SHEET 70

CONCRETE MONUMENT W/ SEWRPC ALUM CAP Y=167731.39 X=594140.50

CAST IRON MONUMENT W/ SEWRPC BRASS CAP Y=170399.04 X=594126.81

CAST IRON MONUMENT W/ BRASS CAP Y=167689.57 X=596692.28

CAST IRON MONUMENT W/ BRASS CAP Y=170341.77 X=596664.43

(900) WE ENERGIES - ELECTRIC LAND RIGHTS IN EXISTING R/W - DOC. NO. 437410

(901) WE ENERGIES - GAS LAND RIGHTS IN EXISTING R/W - DOC. NO. 437410

FRAC'L SW-NW

FRAC'L NW-NW

VILLAGE OF MOUNT PLEASANT

(865) MT. PLEASANT

STATE OF WISCONSIN 841.59' N0°30'5"W

DOC #2500007

DETENTION POND

1/16 TH LINE

WISCONN VALLEY WAY

60TH RD./BRAUN RD.

PRW671 PC 541+33.92 110.00'

PLE937 541+33.92 313.38'

PLE927 540+64.68 313.38'

PLE928 PLE929 545+75.00 110.00', 313.38'

PRW907 ERW904 539+00.00 110.00', 164.16'

PRW875 ERW903 537+00.00 110.00', 164.16'

PRW613 PT 532+92.33 110.00'

PRW876 ERW906 537+00.00 110.00', 180.00'

PRW908 ERW905 539+00.00 110.00', 180.00'

PRW616 PT 532+92.33 110.00'

PRW670 541+33.92 110.00'

PRW692 PRC 547+86.98 110.00'

PRW693 551+00.67 110.00'

PRW694 552+63.71 135.00'

PRW703 554+14.35 135.00'

PRW695 554+78.41 135.00'

PRW696 555+58.12 208.06'

TLE690 555+45.12 275.42'

TLE656 555+45.12 595.44'

PRW605 555+58.12 595.01'

PRW606 555+70.14 594.62'

PRW710 555+70.12 451.66'

PRW760 555+58.12 451.65'

TLE774 555+45.12 451.66'

PRW699 555+58.12 178.10'

TLE??? 555+45.12 181.79'

PRW700 554+91.56 124.77'

PRW704 553+86.69 110.00'

PRW701 PRC 547+86.98 110.00'

L = 609.65
R = 1133.38
LC = 602.32
LCB = N 14°54'30" E

L = 584.13
R = 1202.00
LC = 578.40
LCB = N 14°25'23" W

L = 477.22
R = 982.00
LC = 472.53
LCB = S 14°25'23" E

L = 175.44
R = 955.00
LC = 175.19
LCB = S 6°33'21" W

CURVE 2
PI STA.530+32.34
Y : 167836.24
X : 595594.51
DELTA = 27°50'37"
D = 5°14'49"
T = 270.68'
L = 530.67
R = 1092.00
PC STA.527+61.66
Y : 167598.00
X : 595723.02
PT STA.532+92.33
Y : 168106.91
X : 595592.14

CURVE 3
PI STA.544+78.88
Y : 169293.41
X : 595581.76
DELTA = 45°37'51"
D = 6°59'14"
T = 344.95'
L = 653.05
R = 820.00
PC STA.541+33.92
Y : 168948.47
X : 595584.78
PRC STA.547+86.98
Y : 169536.78
X : 595826.23

CURVE 4
PI STA.551+16.92
Y : 169769.56
X : 596060.06
DELTA = 43°50'12"
D = 6°59'14"
T = 329.94'
L = 627.38
R = 820.00
PRC STA.547+86.98
Y : 169536.78
X : 595826.23
PT STA.554+14.35
Y : 170099.41
X : 596067.50

CURVE 10
L = 740.66
R = 930.00
LC = 721.24
LCB = N 22°18'51" E

CURVE 11
L = 500.24
R = 930.00
LC = 494.24
LCB = S 14°54'30" W

CURVE 12
L = 565.45
R = 710.00
LC = 550.62
LCB = S 22°18'51" W

CURVE 13
L = 355.77
R = 930.00
LC = 353.60
LCB = S 34°10'13" W

CURVE 14
L = 240.41
R = 930.00
LC = 239.74
LCB = N37°43'25"E

CURVE 15
L = 519.27
R = 710.00
LC = 507.77
LCB = N 24°10'39" E

HWY	BASIS OF EXISTING R/W AND ACCESS CONTROL	YEAR	WIDTH
BRAUN ROAD	MP081717	2018	200
WISCON VALLEY WAY	DOC #2500007	2018	344.16

REVISION DATE	DATE: 11/29/18	SCALE, FEET 0 100 200	WISCON VALLEY WAY	STATE R/W PROJECT NUMBER 2704-00-06	PLAT SHEET 4.05	
			COUNTY: RACINE	CONSTRUCTION PROJECT NUMBER 2704-00-76	PS&E SHEET 318	E

FILE NAME : S:\DOT\DOT_SE\180049_Foxxconn_roads_data-collection\Survey\Plats\2704-00-06-WVW\CDS\040405_RP.dgn PLOT DATE : 11/29/2018 PLOT BY : kkruger PLOT NAME : PLOT SCALE : 1:200

WISDOT/CADDS SHEET 70

(900) WE ENERGIES - ELECTRIC LAND RIGHTS IN EXISTING R/W - DOC. NO. 1476591 DOC. NO. 1476594

(903) AT&T WISCONSIN LAND RIGHTS IN EXISTING R/W - DOC. NO. 1476594

LINE TABLE		
LINE#	DISTANCE	BEARING
1	55.22'	S88°50'2"E
2	66.26'	S23°56'25"E
3	80.89'	N44°59'36"W

CAST IRON MONUMENT W/ SEWRPC BRASS CAP Y=170399.04 X=594126.81

CAST IRON MONUMENT W/ SEWRPC BRASS CAP Y=173044.02 X=594120.76

6' WEPCO AND WIS BELL EASEMENT DOC. NO. 1476594 6' WEPCO DOC. NO. 1476591 8-15-1994

FRAC'L SW-SW

FRAC'L NW-SW

VILLAGE OF MOUNT PLEASANT

865

MT PLEASANT

PLE FOR STORM WATER

CURVE 20

572+38.76 PLE797 320.00'

578+84.16 PLE795 319.89'

220'

S0°30'5"E

1/16 TH LINE

1500.00'

1538.61'

DETENTION POND

110'

N88°50'2"W 177.19'

228.64' S88°10'2"E

1720.11'

1846.13' N88°57'41"W

2519.96' TOTAL N88°57'41"W

126.02'

212 PETERSEN

4

4

60TH RD. / BRAUN RD.

PROJECT ID MP081717

R/W 70

2538.27' N88°42'26"W TOTAL

S88°42'26"E 363.81'

100.00' S1°17'34"W

557+95.12 PLE756 446.96'

557+95.12 PLE776 446.96'

L = 341.23
R = 982.00
LC = 339.52
LCB = N 13°59'08" W

FRAC'L SE-SW

PLE943 571+92.51 163.18'

PRW941 572+02.47 130'

PLE939 571+40.92 130.00'

PRW940 571+40.92 130.00'

21.33' S89°11'16"E

35.58' N57°27'39"W

PRW798 PC 571+14.37 110.00'

PC 571+95.76 PRW942 110.00'

68.87' N20°57'4"W

CURVE 21

CURVE 22

575

CURVE 6

580

PT 581+47.40 PRW730 110.00'

110'

980.76'

N30°14'35"E

L = 928.65
R = 982.00
LC = 894.44
LCB = S 3°09'05" W

557+70.12 PRW720 210.99'

557+95.12 PLE812 187.46'

110.88' N 44°33'13" E

558+50.87 PRW721 135.00'

559+66.23 PRW722 135.00'

235.97'

260.00'

PC 561+42.69 PRW921 110.00'

PRW923 PT 565+22.15 110.00'

592.23'

N23°56'25"W

570

PC 571+14.72

81.18' N23°56'25"W

71.58 S89°11'16"E

565

PT 565+22.15

511.40' N23°56'25"W

571+14.72 PRW925 110.00'

71.58 S89°11'16"E

570+84.75 PRW938 175.00'

570+03.57 PRW944 175.00'

PRW761 PT 581+47.40 110.00'

WISCONN VALLEY WAY

560

PC 560+41.23

N1°17'34"E

WVW 556+70.12
BR 69+46.95

CURVE 5

570+33.54 PRW945 110.00'

363.81'

S1°17'34"W 112.00'

203.21' N1°17'34"E

L3

L = 529.36
R = 1202.00
LC = 525.09
LCB = S 11°19'25" E

PT 565+22.15 PRW924 110.00'

PC 560+41.23 PRW922 110.00'

N88°50'2"W 1005.45'

NE-SW

799.13'

591.31'

422.84'

419.29'

432.48'

558+38.02 PRW748 110.00'

557+95.12 TLE731 250.00'

557+82.12 PRW744 168.47'

12'

100'

75

557+95.12 TLE735 587.35'

CURVE 5
PI STA. 562+85.65
Y : 170970.49
X : 596087.16
DELTA = 25°13'59"
D = 5°14'49"
T = 244.42'
L = 480.92
R = 1092.00
PC STA. 560+41.23
Y : 170726.13
X : 596081.65
PT STA. 565+22.15
Y : 171193.88
X : 595987.98

CURVE 6
PI STA. 576+73.32
Y : 172246.02
X : 595520.85
DELTA = 54°11'00"
D = 5°14'49"
T = 558.60'
L = 1032.68
R = 1092.00
PC STA. 571+14.72
Y : 171735.48
X : 595747.52
PT STA. 581+47.40
Y : 172728.60
X : 595802.20

CAST IRON MONUMENT W/ BRASS CAP Y=170341.77 X=596664.43

RACINE COUNTY

NO°31'13"W 1328.34'

557+82.12 PRW746 587.76'

SO°31'13"W 12.01'

557+70.10 PRW747 588.14'

100.05'

865 MT. PLEASANT

SW-SE

CURVE 20
L = 834.43
R = 1422.00
LC = 822.51
LCB = N 0°29'09" W

CURVE 21
L = 812.72
R = 1202.00
LC = 797.32
LCB = S 0°19'00" E

CURVE 22
L = 1047.46
R = 1202.00
LC = 1014.63
LCB = N 05°16'42" E

865 VILLAGE OF MOUNT PLEASANT MT. PLEASANT

NW-SE

HWY	BASIS OF EXISTING R/W AND ACCESS CONTROL	YEAR	WIDTH
BRAUN ROAD	MP081717	2018	200

CAST IRON MONUMENT MISSING BRASS CAP Y=172998.34 X=596640.31

REVISION DATE	DATE: 11/29/18	SCALE, FEET 0 100 200	WISCON VALLEY WAY	STATE R/W PROJECT NUMBER 2704-00-06	PLAT SHEET 4.06
			COUNTY: RACINE	CONSTRUCTION PROJECT NUMBER 2704-00-76	PS&E SHEET 319 E

FILE NAME : S:\DOT\DOT_SE\180049_Foxxconn_roads_data-collection\Survey\Plats\2704-00-06-WVW\CDS\040406_RP.dgn PLOT DATE : 11/29/2018 PLOT BY : kkruger PLOT NAME : PLOT SCALE : 1:200

WISDOT/CADDS SHEET 70

CAST IRON MONUMENT W/ SEWRPC BRASS CAP
Y=173044.02
X=594120.76

CONCRETE MONUMENT W/ SEWRPC ALUM CAP
Y=175696.15
X=594117.87

CAST IRON MONUMENT MISSING BRASS CAP
Y=172998.34
X=596640.31

CAST IRON MONUMENT W/ BRASS CAP
Y=175650.19
X=596615.74

GN

865 MT. PLEASANT

865 MT PLEASANT

865 MT PLEASANT

SE-NW

NE-NW

SW-NE

NW-NE

1/16 TH LINE

PROJECT ID 1320-23-00

END RELOCATION ORDER
STA 605+65.96
Y=174711.62
X=596454.15

WISCONN VALLEY WAY

TOTAL: 2519.96' N88°57'41"W

1846.13' N88°57'41"W

126.02'

126.02'

45.83'

114.56'

673.83' N88°57'41"W

387.42'

585

590

595

600

605

265

270

275

280

S30°14'35"W 980.76'

N30°14'35"E 180'

S30°14'35"W 980.76'

40'

CURVE 7
PI STA. 596+65.92
Y : 174040.45
X : 596567.04
DELTA = 37°09'20"
D = 3°41'52"
T = 537.77'
L = 1037.58
R = 1600.00
PC STA. 591+28.16
Y : 173575.87
X : 596296.18
PT STA. 601+65.73
Y : 174574.31
X : 596502.31

PC 591+28.16
110.00'

PRW655

PRW600

PC 591+28.16
110.00'

PC 591+28.61

L = 966.24
R = 1490.00
LC = 949.40
LCB = N 11°39'55" E

110'

L = 1108.91
R = 1710.00
LC = 1089.58
LCB = S 11°39'55" W

110'

2651.96' NO°31'51"W

PRW661 PT 596+61.12
110.00'

PRW659 PT 601+65.73
110.00'

PT 601+65.73

PRW659 605+25.96
110.00'

PRW758 605+65.96
150.00'

56.57'
N51°54'54"W

360.23' N6°54'45"W

300.00'

N83°5'13"E

PRW757 605+65.96
150.00'

18.92'
N83°5'41"E

658.27'

360.23' N6°54'45"W

PRW660 596+85.20
250.00'

56.57' S38°5'15"W

721.78' N83°5'15"E

STH 11/DURAND AVE.

HWY	BASIS OF EXISTING R/W AND ACCESS CONTROL	YEAR	WIDTH
STH 11	1320-23-00	2018	200

VILLAGE OF MOUNT PLEASANT

RACINE COUNTY

REVISION DATE	DATE: 11/29/18	SCALE, FEET 0 100 200	WISCON VALLEY WAY	STATE R/W PROJECT NUMBER 2704-00-06	PLAT SHEET 4.07
			COUNTY: RACINE	CONSTRUCTION PROJECT NUMBER 2704-00-76	PS&E SHEET 320 E

FILE NAME : S:\DOT\DOT_SE\180049_Foxxconn_roads_data-collection\Survey\Plats\2704-00-06-WVW\CDS\040407_RP.dgn PLOT DATE : 11/29/2018 PLOT BY : kkruger PLOT NAME : PLOT SCALE : 1:200

WISDOT/CADDS SHEET 70

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
MP081717		
CONSTRUCTION PROJECT NUMBER 2704-09-70	4.00	8

PLAT OF RIGHT OF WAY REQUIRED FOR

BRAUN ROAD

I-94 EAST FRONTAGE ROAD TO CTH H

BRAUN ROAD — RACINE COUNTY

2-20-2018

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC	PROPERTY LINE	PL
AHEAD	AH	PUBLIC ROAD ACCESS POINT	PRAP
ALUMINUM	ALUM	RECORDED AS	(100')
AND OTHERS	ET AL	REEL / IMAGE	R/I
BACK	BK	REFERENCE LINE	R/L
BLOCK	BLK	REMAINING	REM
CENTERLINE	C/L	RESTICTIVE DEVELOPMENT EASEMENT	RDE
CERTIFIED SURVEY MAP	CSM	RIGHT	RT
CONCRETE	CONC	RIGHT OF WAY	R/W
COUNTY	CO	SECTION	SEC
COUNTY TRUNK HIGHWAY	CTH	SEPTIC VENT	SEPV
DISTANCE	DIST	SQUARE FEET	SF
CORNER	COR	STATE TRUNK HIGHWAY	STH
DOCUMENT NUMBER	DOC	STATION	STA
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 NUMBER	NGS NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		
POINT OF COMPOUND CURVE	PCC		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING — TO BE REMOVED
BRIDGE

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
OFF-PREMISE SIGN

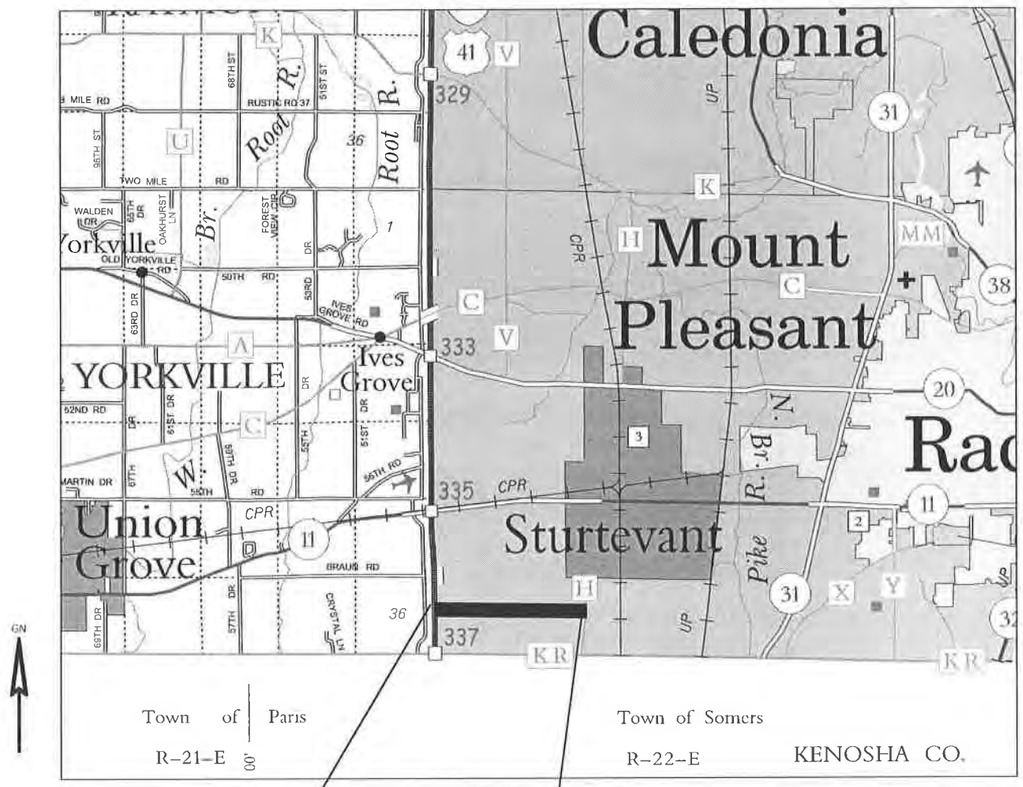
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN IP (1-INCH UNLESS NOTED)

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE		
TELEPHONE POLE		
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)		

ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER (25) UTILITY NUMBER (40)
PARALLEL OFFSETS

CONVENTIONAL UTILITY SYMBOLS

WATER
GAS
TELEPHONE
OVERHEAD TRANSMISSION LINES
ELECTRIC
CABLE TELEVISION
FIBER OPTIC
SANITARY SEWER
STORM SEWER



BEGIN RELOCATION ORDER
0 FEET SOUTH AND 0 FEET EAST OF THE NORTHWEST CORNER OF SEC. 31 T3N R22E
STA 50+00.00

END RELOCATION ORDER
0.49 FEET NORTH AND 20.28 FEET EAST OF THE NORTHEAST CORNER OF SEC. 32 T3N R22E
STA 155+24.2

LAYOUT SCALE 0 0.50 MI.

THE NOTES,CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH RIGHT OF WAY PLAT FOR PROJECT MP081717.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, RACINE COUNTY, NAD83(97), 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 ¾" X 24" IRON REBARS), 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.

AN EASEMENT FOR HIGHWAY PURPOSES (HE), 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 WAUKESHA.

PARCEL IDENTIFICATION NUMBERS WAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

EXISTING ACCESS CONTROL ALONG BRAUN ROAD HAS BEEN ESTABLISHED FROM PREVIOUS PROJECT -NONE-

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: TPP 1030-24-21-4.02 & -4.03, SS 82.31(2), CSM 3020, CSM 3154.

REVISION DATE:
12/19/2017
1/05/2018
2/13/2018

VILLAGE OF MOUNT PLEASANT

APPROVED BY:

DATE:_____

321 E

FILE NAME : I:\TADI\17082 PROJECT FLYING EAGLE\060 CADD\V - SURVEY\020 SURVEY DELIVERABLES (ALTA, CSM, PLAT TEXT)\RW PLATS\TRADITIONAL FORMAT\BRAUN\BRAUN TITLE SHEET.DWG PLOT DATE : 10/18/2017 PLOT BY : PLOT NAME : APPRAISAL PLAT DATE :
LAYOUT NAME : TPP Title

VILLAGE

OF

MT. PLEASANT

VILLAGE

OF

STURTEVANT

VILLAGE

OF

MOUNT

PLEASANT

VILLAGE OF MT. PLEASANT

GN

4

4

REVISION DATE 12/19/2017 1/05/2018 2/13/2018	DATE 9/05/2017	SCALE, FEET 0 350 700	HWY: BRAUN ROAD	STATE R/W PROJECT NUMBER MP081717	PLAT SHEET 4 01
	GRID FACTOR N/A		COUNTY: RACINE	CONSTRUCTION PROJECT NUMBER 2704-09-70	PS&E SHEET 322 E

FILE NAME : BRAUN LAYOUT SHEET DWG
LAYOUT NAME - BRAUN layout

PLOT DATE : 2/13/2018 9:47 AM PLOT BY BAIBA ROZITE PLOT NAME PLOT SCALE : 1 IN/200 FT

WISDOT/CADDS SHEET 25 03

SCHEDULE OF LANDS & INTERESTS REQUIRED

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA BEING ACQUIRED.
*INDICATES COMPUTED AREA

PARCEL NUMBER	SHEET NUMBER	OWNER(S)	INTEREST REQUIRED	PARCEL AREA ACRES	T.L.E. AREA REQUIRED ACRES	P.L.E. AREA REQUIRED ACRES	R/W AREA REQUIRED NEW ACRES	R/W AREA REQUIRED EXISTING ACRES	R/W AREA REQUIRED TOTAL ACRES	PARCEL NUMBER
1**	4.03	SLAVKO M GRCIC LIVING TRUST DATED MAY 9, 2012	FEE, TLE, AR	8.572	0.371		1.036	0.439	1.475	1
2	4.03	SLAVKO M GRCIC LIVING TRUST DATED MAY 9, 2012	FEE, TLE, AR	4.628	0.282		0.772	0.373	1.095	2
3	4.03	JACK R PETERSEN AND PATRICIA A PETERSEN	FEE, TLE, AR	29.514	0.471		0.755	0.372	1.127	3
4	4.03	LEROY R PETERSEN AND SHARON K PETERSEN	FEE, TLE, AR	29.520	0.282		0.754	0.372	1.126	4
5	4.04	CREUZIGER FARMS INC	FEE, TLE, AR	79.200	0.639		1.717	0.845	2.562	5
6	4.04	GEORGE N CREUZIGER AND VELLABE CREUZIGER	FEE	1.147	--		0.996	0.151	1.147	6
7**	4.04	CREUZIGER FARMS INC AND	FEE, PLE, TLE, AR	80.280	0.755	0.136	2.024	0.997	3.021	7
8	4.05	THOMAS W FLIESS JR	FEE, TLE, AR	22.126*	0.348		0.631	--	0.631	8
9	4.05	RUDOLPH R BAKER AND ATHENA V BAKER	FEE	2.001*	--		2.001	--	2.001	9
10	4.05	SARAH MAYER AND SHAWN MAYER	FEE, TLE, AR	5.255	0.510		1.578	--	1.578	10
11	4.05	RONALD J HOEGSTED AND CAROL M HOEGSTED	FEE	0.643*	--		0.537	0.106	0.643	11
12	4.05	FORREST BAUER AND JENNIFER BAUER	FEE	0.625*	--		0.554	0.071	0.625	12
13	4.05	BOWER TRUST	FEE	0.505	--		0.429	0.076	0.505	13
14	4.05	LINDA LAMPAREK	FEE, TLE, AR	80.390	1.497		1.903	0.934	2.837	14
15	4.06	THOMAS W FLIESS AND CHERIE FLIESS	FEE, TLE, AR	78.621*	0.631		1.695	0.830	2.525	15
16	4.06	TRAVIS S SPENCER AND KATHERINE R SPENCER	FEE	1.652	--		1.652	--	1.652	16
17**	4.07	DOUG R FUNK	FEE	38.830	--		37.922	0.908	38.830	17
18**	4.03	UNIVERSITY OF LAWSONOMY	FEE, TLE, AR	18.670	0.402		1.413	0.590	2.003	18
19	4.03	TODD D POHJOLA AND JULIE B POHJOLA	FEE	1.142	--		1.000	0.102	1.102	19
20	4.03	BROUWERS AND DAVID BROUWERS 1/4 INT	FEE, TLE, AR	37.630	1.175		1.763	0.8686	2.631	20
21	4.04	THEODORE M WASIAK AND JEAN A WASIAK	FEE	5.002	--		4.853	0.150	5.002	21
22	4.04	LYNN S BAUMANN AND LORI ANDERSON	FEE, TLE, AR	59.446*	0.097		0.261	0.128	0.389	22
23	4.04	LAURA A JAHNKE AND JOHN THOMAS ANDERSON	FEE, TLE, AR	5.290*	0.181		0.435	--	0.435	23
24**	4.04	LEE ANN GOOLD AND TIMOTHY J ANDERSON	FEE, PLE	10.000	--	0.076	10.000	--	10.000	24
25**	4.04	BUISSE AND LINDA D RAMOS	FEE, PLE, TLE, AR	33.005*	0.301	0.009	1.189	0.586	1.775	25
26	4.04	CAROL R ECKHOLM AND JAY R ECKHOLM	FEE	1.796	--		1.796	--	1.796	26
27	4.04	SHERRI L SHAVER	FEE	1.999*	--		1.831	0.168	1.999	27
28	4.04	LINDA D RAMOS AND WAYNE P BUISSE	FEE, TLE, AR	43.212*	0.057		0.154	0.076	0.230	28
29	4.05	LINDA D RAMOS AND WAYNE P BUISSE	FEE	0.505	--		0.429	0.076	0.505	29
30	4.05	BUISSE AND LINDA D RAMOS	FEE, TLE, AR	80.458*	0.901		1.904	0.937	2.841	30
31	4.06	BOWER FAMILY TRUST	FEE, TLE, AR	16.796*	0.124		0.335	0.165	0.500	31
32	4.05	BOWER FAMILY TRUST	FEE	1.393*	--		1.256	0.137	1.393	32
33	4.05	SHANNON A HILBERT AND NICHOLAS A HILBERT	FEE	1.132	--		1.020	0.112	1.132	33
34	4.05	JUAN F GARCIA AND SENORINA M GARCIA	FEE	0.999*	--		0.901	0.098	0.999	34
35	4.05	BOWER TRUST LE ROY S	FEE, TLE, AR	20.483*	0.379		1.016	0.500	1.516	35
36	4.06	THOMAS W FLIESS	FEE, TLE, AR	81.395*	0.763		2.049	1.007	3.056	36
37	4.07	THOMAS E RIEDEL AND BARBARA J RIEDEL	FEE, TLE, AR	25.045*	0.979		2.225	0.857	3.082	37
38	4.07	JOSEPH M JANICEK AND KIMBERLY K JANICEK	FEE	1.153*	--		1.029	0.124	1.153	38
40	4.05	RONALD J HOEGSTED AND CAROL M HOEGSTED	FEE, TLE, AR	1.207	0.185		0.054	--	0.054	40
41	4.05	PEUSCHOLD TRUST DANNY C & KIMBERLY A	TLE, AR	0.9331	0.155		--	--	--	41
42	4.05	RANDY S BURROW	FEE, TLE, AR	2.332	0.293		0.662	--	0.662	42
43	4.05	SARAH MAYER AND SHAWN MAYER	FEE	2.749	--		2.749	--	2.749	43
44	4.05	CREUZIGER FARMS	AR	40.54	--		--	--	--	44

4

REVISED: 12/19/2017, 1/05/2018, 2/13/2018**

DATE: 9/05/2017

HWY: BRAUN ROAD

COUNTY: RACINE

R/W PROJECT NO. MP081717

CONSTRUCTION PROJECT NO. 2704-09-70

PLAT SHEET NO: 4.02

E

FILE NAME : $$....designfile....$$

PLOT DATE: 2/20/2018 PLOT BY : ---- PLOT NAME : ---- PLOT SCALE: 1

SW 1/4-SW 1/4

SE 1/4-SW 1/4

NW 1/4-NW 1/4

NE 1/4-NW 1/4

VILLAGE OF MT. PLEASANT

SECTION LINE N0° 07' 52"W 2644.99

SECTION LINE N0° 17' 38"W 2667.69

1/4 SECTION LINE

1/16 LINE

I94 EAST FRONTAGE ROAD

BP: 50+00.00

BEGIN RELOCATION ORDER
0 FEET SOUTH AND 0 FEET
EAST OF THE NORTHWEST
CORNER OF SEC. 31 T3N R22E
STA 50+00.00

L=380.31, R=16407.25
LC=380.30,
N01° 16' 12"W

Y = 170399.04
X = 594126.82
CAST IRON W/
BRASS CAP

Y = 170341.77
X = 596664.43
CAST IRON W/
BRASS CAP

NO ACCESS TPP
1030-24-21-4.03

NO ACCESS
PROJ I101-1(3)

N88° 54' 52"E 5.00'
S0° 50' 44"E 137.33'
N0° 17' 00"W 112.96'
S0° 17' 00"E 89.13'
S44° 29' 08"E 103.98'
N44° 36' 37"W 213.49'
S88° 42' 26"E 502.01
N45° 25' 24"E 214.15'
S45° 25' 24"W 103.88'
N1° 17' 34"E 12.00'
S0° 27' 15"E 165.08'
N89° 32' 45"E 7.00'
S0° 34' 14"E
S0° 22' 06"E

TLE FOR DEMOLITION

S88° 42' 26"E R.L. BRAUN ROAD= SECTION LINE

634.38' 491.80' 490.82' 490.57'
562.83' 491.72' 490.81' 490.55'
755.01' 135.00' 1146.25'
537.13' 290.27' 1146.73'
804.43'

110.00' 100' 25' 13' 112' 100' 25' 150.00' 150.00' 192.40'

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94 & E FRONTAGE RD	TPP 1030-24-21-4 02 & 4 03	VARIES	2011
BRAUN RD	SS 82 31(2)	66'	

REVISION DATE			
12/19/2017			
1/05/2018			
2/13/2018			

DATE 11/15/2017
GRID FACTOR N/A
SCALE, FEET 0 100 200
HWY: BRAUN ROAD
COUNTY: RACINE
STATE R/W PROJECT NUMBER MP081717
CONSTRUCTION PROJECT NUMBER 2704-09-70
PLAT SHEET 4 03
PS&E SHEET 324 E

FILE NAME BRAUN DETAIL SHEETS DWG
LAYOUT NAME - DETAIL 1 1 IN 200 FT
PLOT DATE : 2/20/2018 11:01 AM PLOT BY BAIBA ROZITE PLOT NAME PLOT SCALE
WISDOT/CADDS SHEET 75

GN

VILLAGE OF MT. PLEASANT

SW 1/4-SE 1/4

Y = 170341.77
X = 596664.43
CAST IRON W/
BRASS CAP

T 3 N
R 22 E
30 30
31 31

SE 1/4-SE 1/4

1/16 LINE

PLE FOR CULVERT

PI: 75+38.26

75+35.09 -100.00'/-125.00'

85+04.78 -125.00'

87+04.78 -125.00'

90+36.23 -144.00'

91+71.23 -144.00'

101+69.77 -100.00'/-125.00'

44.00'

331.45'

135.00'

44.00'

100'

25'

995.80'

969.10'

146.85'

1315.95'

966.52'

80

85

200.00'

149.24'

90

95

1315.75'

100

200.00'

169.27'

S89° 02' 31"E R.L. BRAUN ROAD= SECTION LINE

534.69'

221.45'

221.45'

238.17'

100.00'

315.52'

630.95'

535.03'

238.17'

169.62'

75+40.57 100.00'/125.00'

77+41.69 125.00'

82+26.80 125.00'

37.00'

87+68.23 137.00'

37.00'

88+68.23 137.00'

90.00'

10.00'

PLE FOR CULVERT

25'

100'

93+92.97 125.00'

98+35.86 125.00'

101+69.77 100.00'/125.00'

21

22

23

24

25

26

27

28

LOT 1
CSM 3222

LOT 2
CSM 3222

LOT 1
CSM 1611

NW 1/4-NE 1/4

NE 1/4-NE 1/4

T 3 N
R 22 E
30 29
31 32

Y = 170297.77
X = 599295.57
CAST IRON W/
BRASS CAP

1/4 SECTION LINE

SECTION LINE

VILLAGE OF MT. PLEASANT

PL

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
I-94 & E FRONTAGE RD	TPP 1030-24-21-4 02 & 4 03	VARIES	2011
BRAUN RD	SS 82 31(2)	66'	

REVISION DATE
12/19/2017
1/05/2018
2/13/2018

DATE 9/05/2017

GRID FACTOR N/A

SCALE, FEET
0 100 200

HWY: BRAUN ROAD

COUNTY: RACINE

STATE R/W PROJECT NUMBER MP081717

CONSTRUCTION PROJECT NUMBER 2704-09-70

PLAT SHEET 4 04

PS&E SHEET

E

FILE NAME BRAUN DETAIL SHEETS DWG
LAYOUT NAME - DETAIL 2 1 IN 200 FT

PLOT DATE : 2/20/2018 11:01 AM PLOT BY BAIBA ROZITE PLOT NAME PLOT SCALE :

WISDOT/CADDS SHEET 75

4

4

GN

SW 1/4-SW 1/4

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
WHEATON LANE	CSM 3020	66'	2011
BRAUN RD	SS 82.31(2)	66'	

SECTION LINE

Y = 170297.77
X = 599295.57
CAST IRON W/
BRASS CAP

T 3 N R 22 E
30 29
31 32

LOT 4
CSM 3020

LOT 1
CSM 3020

LOT 2
CSM 3020

LOT 3
CSM 3020

WHEATON LN

111+67.52
-1322.65'

N0° 26' 03"E
147.66'

111+67.51
-1174.96'

N89° 25' 49"W
60.13'

111+75.51
-1108.96'

111+50.49
-758.96'

113+43.52
-1322.08'

S89° 22' 49"E
320.48'

L=182.21, R=116.00
LC=164.05,
N44° 33' 46"W

S0° 24' 28"E
509.94'

S89° 33' 45"E
152.10'

N0° 26' 15"E
270.50'

S0° 24' 28"E
270.53'

N89° 33' 45"W
156.12'

1/16 LINE

N0° 24' 28"W
321.53'

L=146.25, R=279.32
LC=144.59,
N15° 26' 15"E

N30° 26' 15"E
18.51'

N89° 33' 45"W
46.68'

113+68.46
-219.85'

L=80.71, R=153.60
LC=79.79,
N15° 23' 02"E

N30° 26' 15"E
69.51'

111+75.45
-100.00'

109+28.22
-125.00'

106+26.79
-125.00'

113+43.45
-100.00'

116+08.65
-125.00'

101+69.77
-100.00'/-125.00'

103+85.00
125.00'/200.00'

102+74.82
125.00'/200.00'

117+26.16
125.00'

121+83.13
125.00'

128+43.42
-100.00'/-125.00'

123+50.00
-125.00'/-320.00'

125+25.00
-125.00'/-320.00'

Y = 170277.51
X = 601970.80
CAST IRON W/
BRASS CAP

TLE FOR DEMOLITION

TLE FOR DEMOLITION

SE 1/4-SW 1/4

NE 1/4-NW 1/4

VILLAGE OF MT. PLEASANT

NW 1/4-NW 1/4

S89° 33' 57"E R.L. BRAUN ROAD= SECTION LINE 1237.59'

N0° 26' 14"E
50.00'

N0° 26' 14"E
33.00'

458.31'
1071.66'
1236.99'
1124.78'
744.35'
1237.40'
1237.53'
660.37'
661.23'
246.23'
302.40'
247.11'
658.99'
165.81'
155.69'
216.85'
218.12'
181.32'
147.65'
130.00'
100.06'
100.05'
140.00'
125.62'
66'
40'
33'
24.75'

105
110
120
125
115

168'
102'
25'
100'
175.00'
195.00'
318.00'
263.13'
176'

PL

4

VILLAGE OF MT. PLEASANT

GN

Y = 170277.51
X = 601970.80
CAST IRON W/
BRASS CAP

SW 1/4-SE 1/4

Y = 170230.15
X = 604629.10
CAST IRON W/
BRASS CAP

VILLAGE OF MT PLEASANT

PL

LOT 1
CSM 3154

128+43.42
100.00'/-125.00'

100'

25'

15

16

1013.01'

130

1012.99'

135

1329.36'

S88° 58' 46"E R.L. BRAUN ROAD= SECTION LINE

1329.19'

128+47.39
100.00'/125.00'

25'

100'

36

139+54.74
-125.00'

140+85.16
-125.00'

141+71.33
-125.00'

85.95'

230.42'

40

140

85.95'

141+79.20
100.00'/125.00'

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
BRAUN RD	SS 82 31(2), CSM 3154	66'/40'	

NW 1/4-NE 1/4

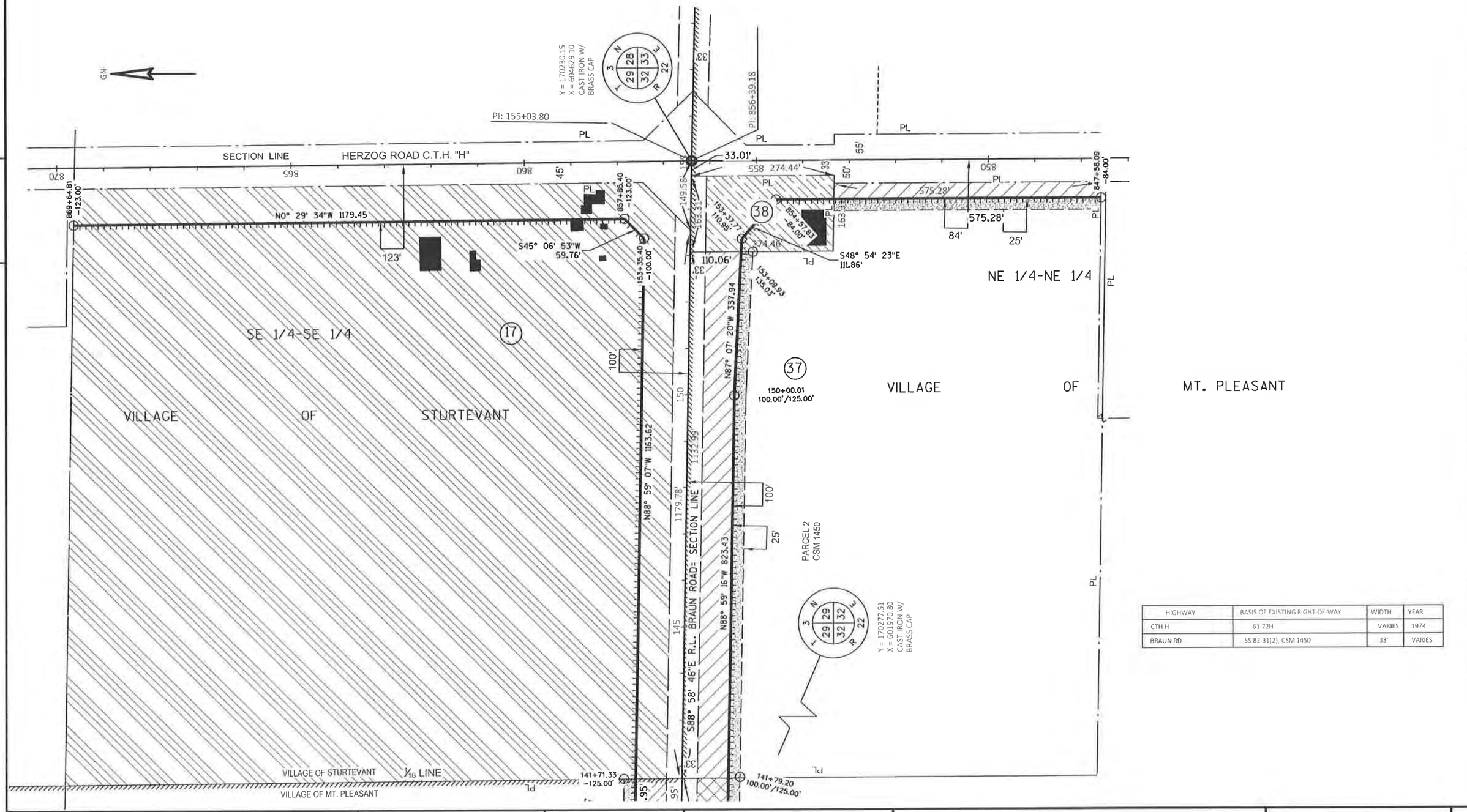
VILLAGE OF MT. PLEASANT

4

REVISION DATE	DATE 9/05/2017	SCALE, FEET	HWY: BRAUN ROAD	STATE R/W PROJECT NUMBER MP081717	PLAT SHEET 4 06	
12/19/2017 1/05/2018 2/13/2018	GRID FACTOR N/A	0 100 200	COUNTY: RACINE	CONSTRUCTION PROJECT NUMBER 2704-09-70	PS&E SHEET 327	E

FILE NAME BRAUN DETAIL SHEETS.DWG
LAYOUT NAME - DETAIL 4 1 IN 200 FT

PLOT DATE : 2/14/2018 10:29 AM PLOT BY : BAIBA ROZITE PLOT NAME : PLOT SCALE : 1.0000 WISDOT/CADDS SHEET 75

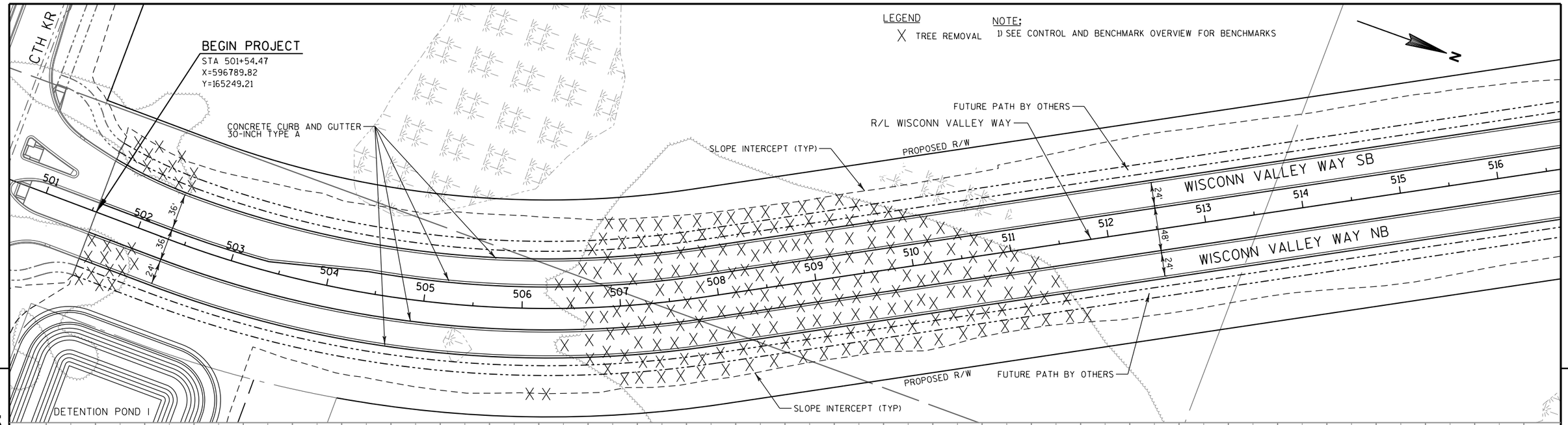


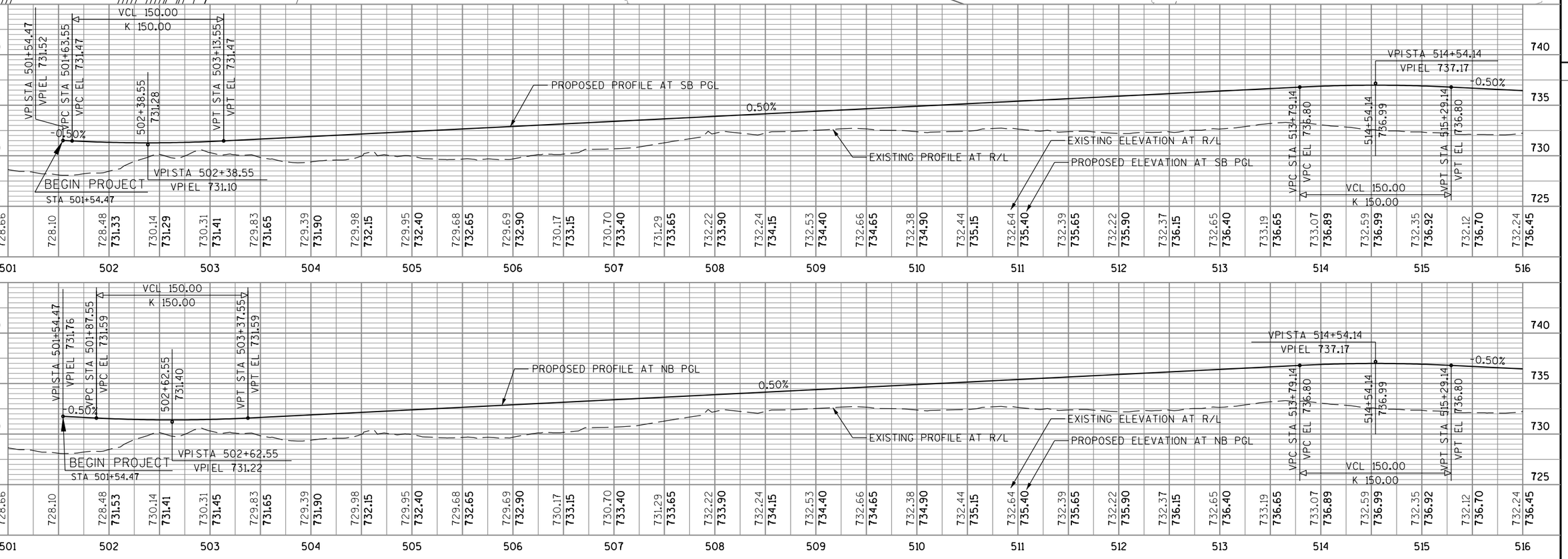
HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
CTH H	61-72H	VARIES	1974
BRAUN RD	SS 82 31(2), CSM 1450	33'	VARIES

REVISION DATE 12/19/2017 1/05/2018 2/13/2018	DATE 9/05/2017	SCALE, FEET 0 100 200	HWY: BRAUN ROAD	STATE R/W PROJECT NUMBER MP081717	PLAT SHEET 4. 07
	GRID FACTOR N/A		COUNTY: RACINE	CONSTRUCTION PROJECT NUMBER 2704-09-70	PS&E SHEET E

FILE NAME BRAUN DETAIL SHEETS.DWG
LAYOUT NAME - DETAIL 5 1 IN 200 FT

PLOT DATE : 2/14/2018 10:29 AM PLOT BY : BAIBA ROZITE PLOT NAME : PLOT SCALE : ####.#### WISDOT/CADDS SHEET 75





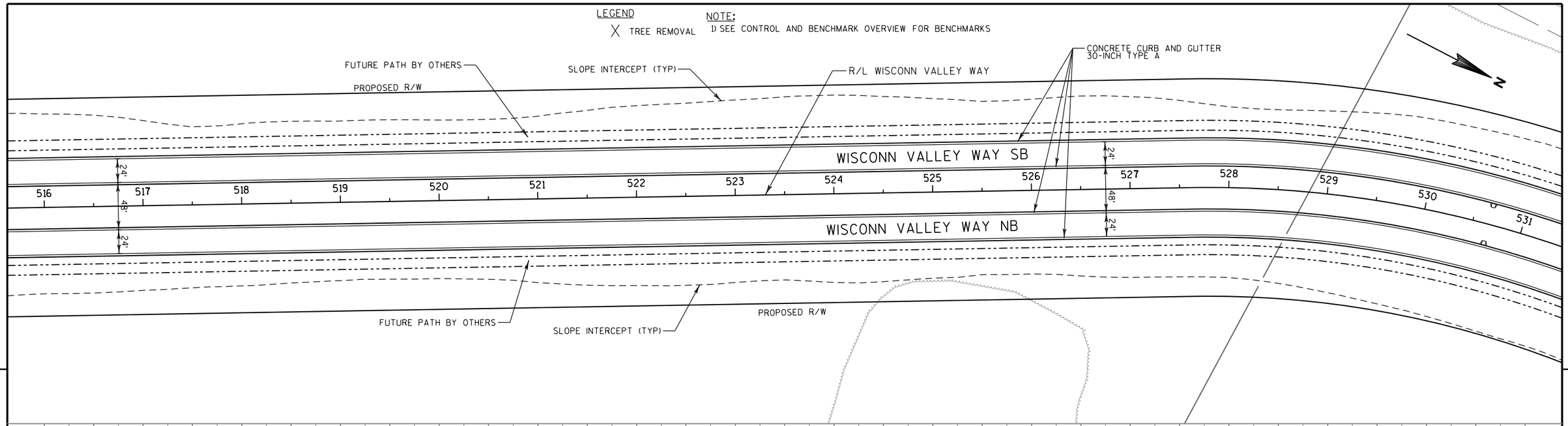
PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN AND PROFILE: WISCONN VALLEY WAY	SHEET 329 E

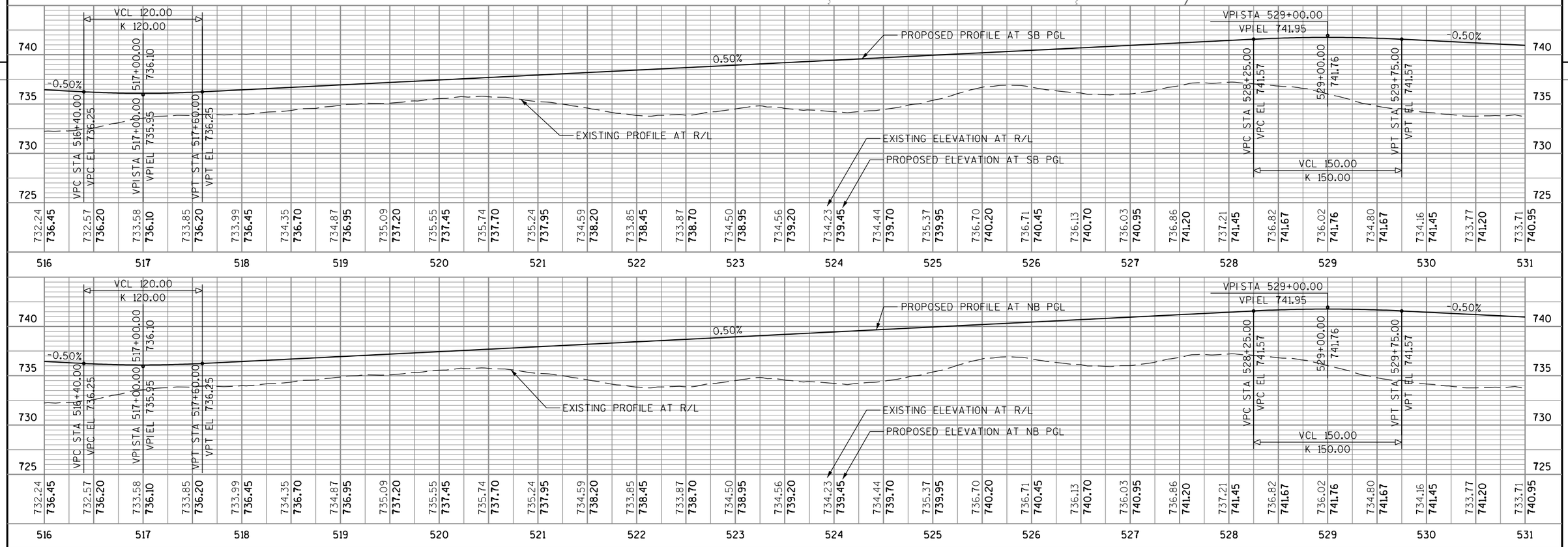
LEGEND

X TREE REMOVAL

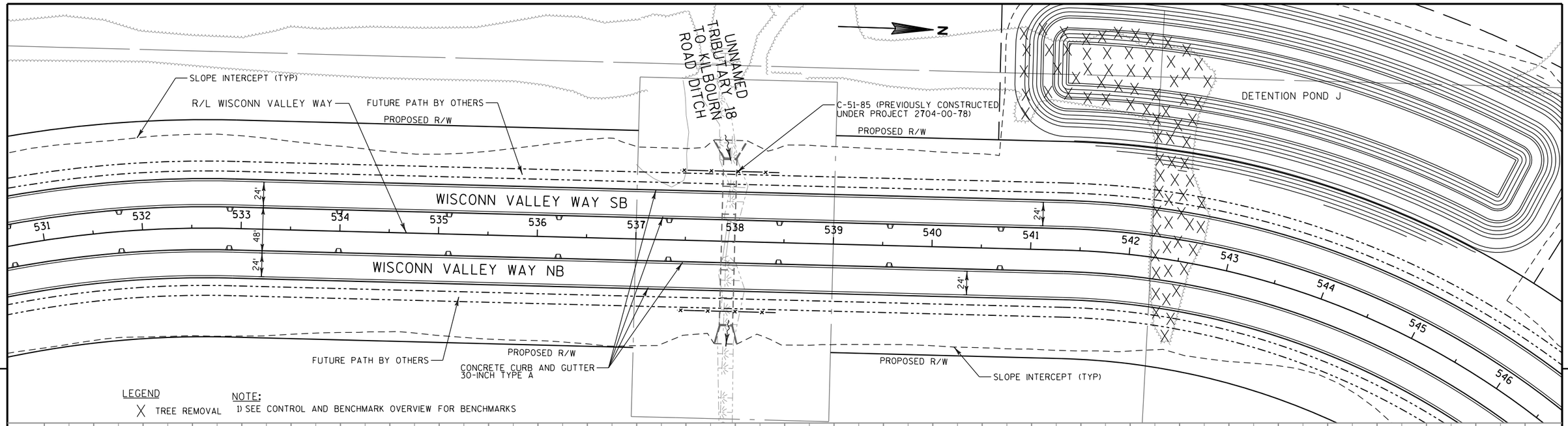
NOTE:

1) SEE CONTROL AND BENCHMARK OVERVIEW FOR BENCHMARKS





PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN AND PROFILE: WISCONN VALLEY WAY	SHEET 330	E

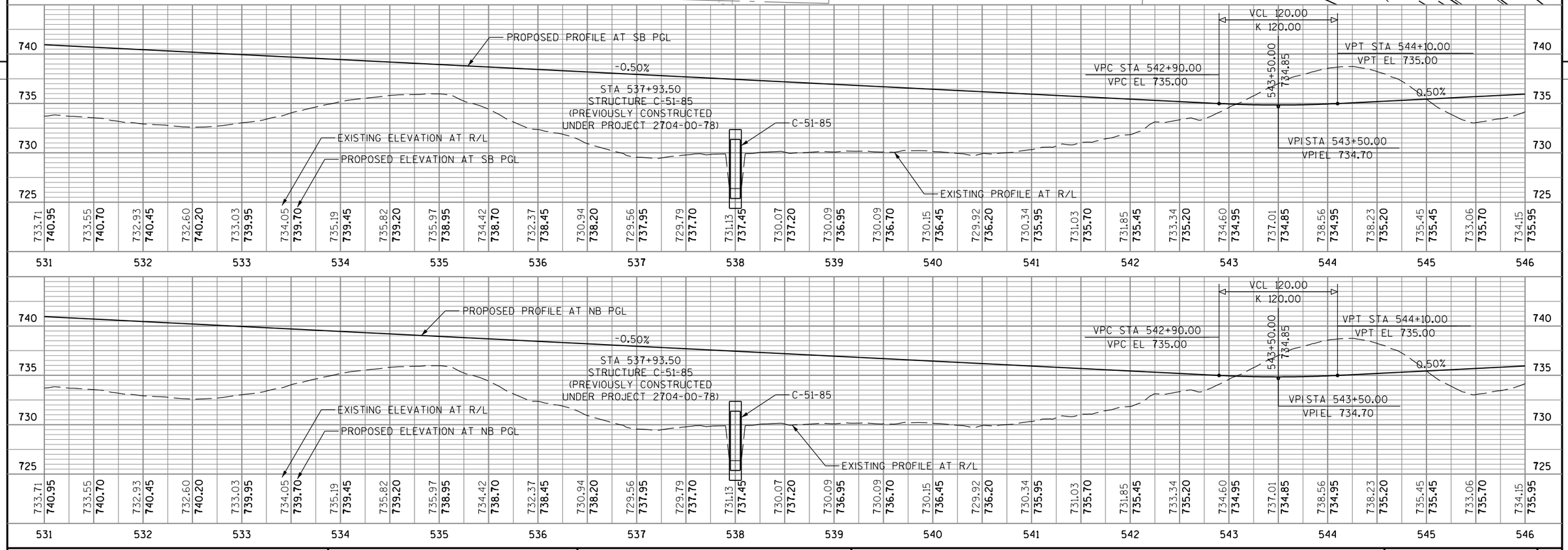


LEGEND

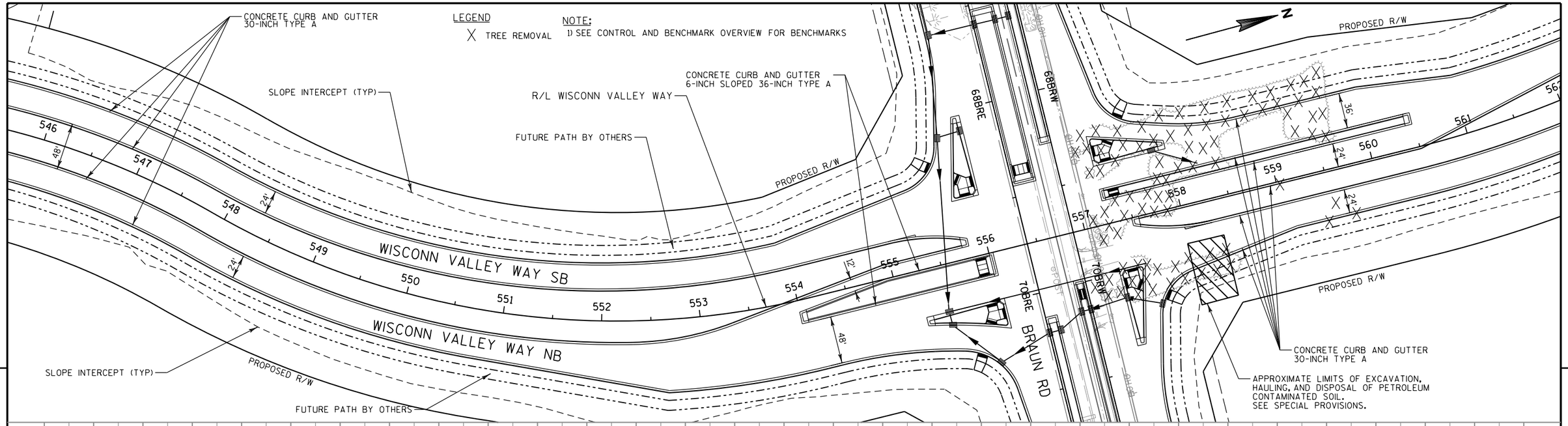
X TREE REMOVAL

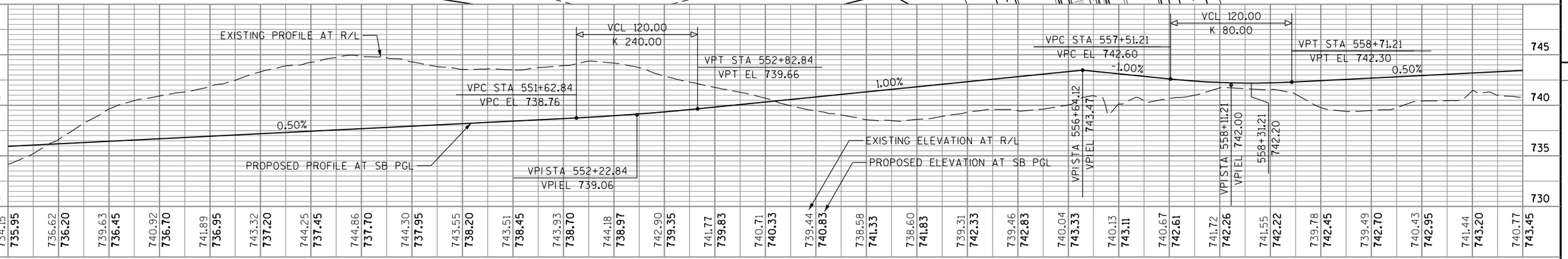
NOTE:

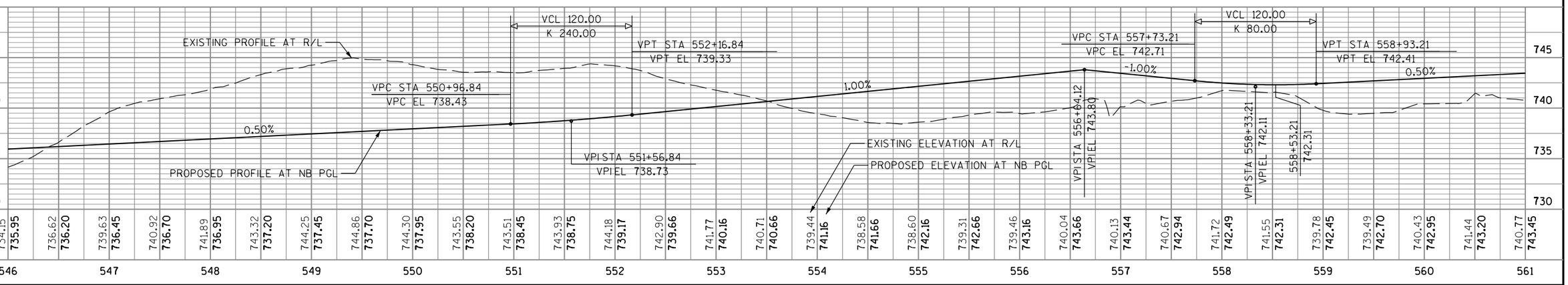
1) SEE CONTROL AND BENCHMARK OVERVIEW FOR BENCHMARKS



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN AND PROFILE: WISCONN VALLEY WAY	SHEET 331	E







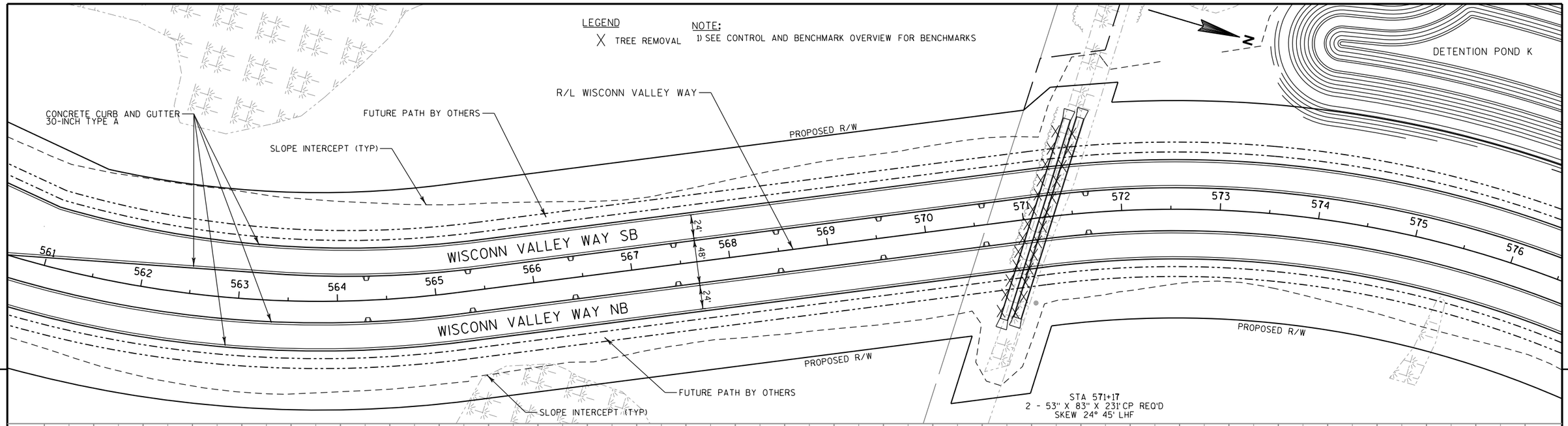
PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN AND PROFILE: WISCONN VALLEY WAY	SHEET 332	E

LEGEND

X TREE REMOVAL

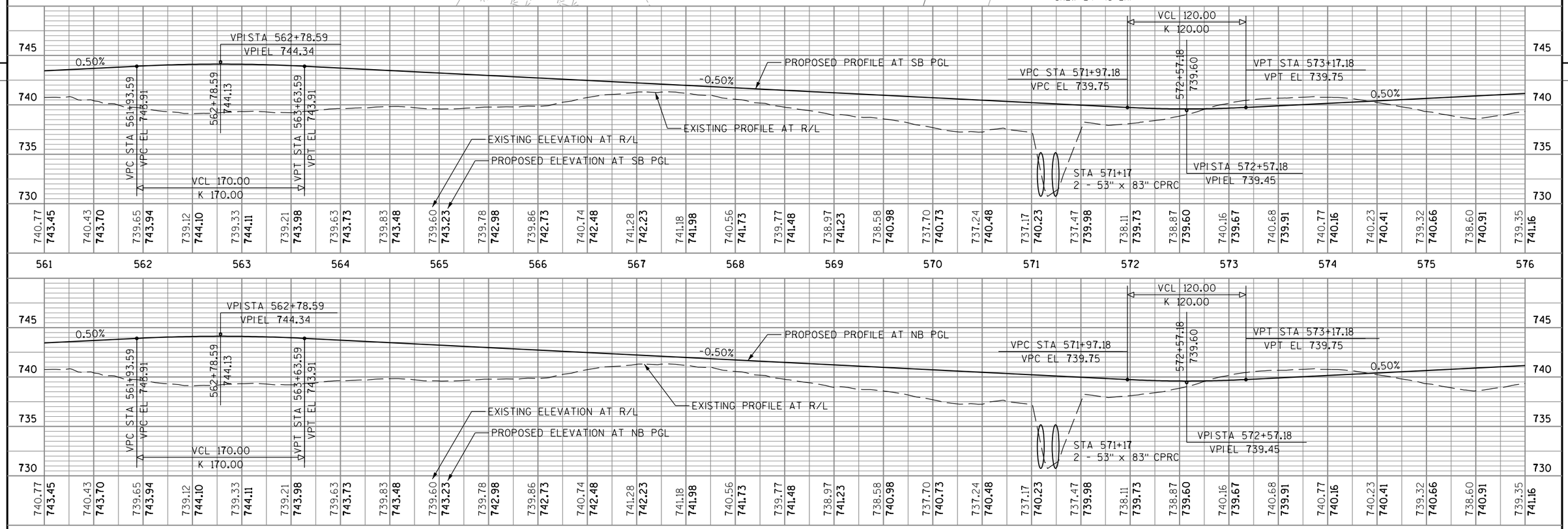
NOTE:

1) SEE CONTROL AND BENCHMARK OVERVIEW FOR BENCHMARKS



5

5



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN AND PROFILE: WISCONN VALLEY WAY	SHEET 333	E

LEGEND

X TREE REMOVAL

NOTE:

1) SEE CONTROL AND BENCHMARK OVERVIEW FOR BENCHMARKS

DETENTION POND K

PROPOSED R/W

FUTURE PATH BY OTHERS

SLOPE INTERCEPT (TYP)

N

24'

WISCONN VALLEY WAY SB

48'

24'

WISCONN VALLEY WAY NB

576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591

R/L WISCONN VALLEY WAY

FUTURE PATH BY OTHERS

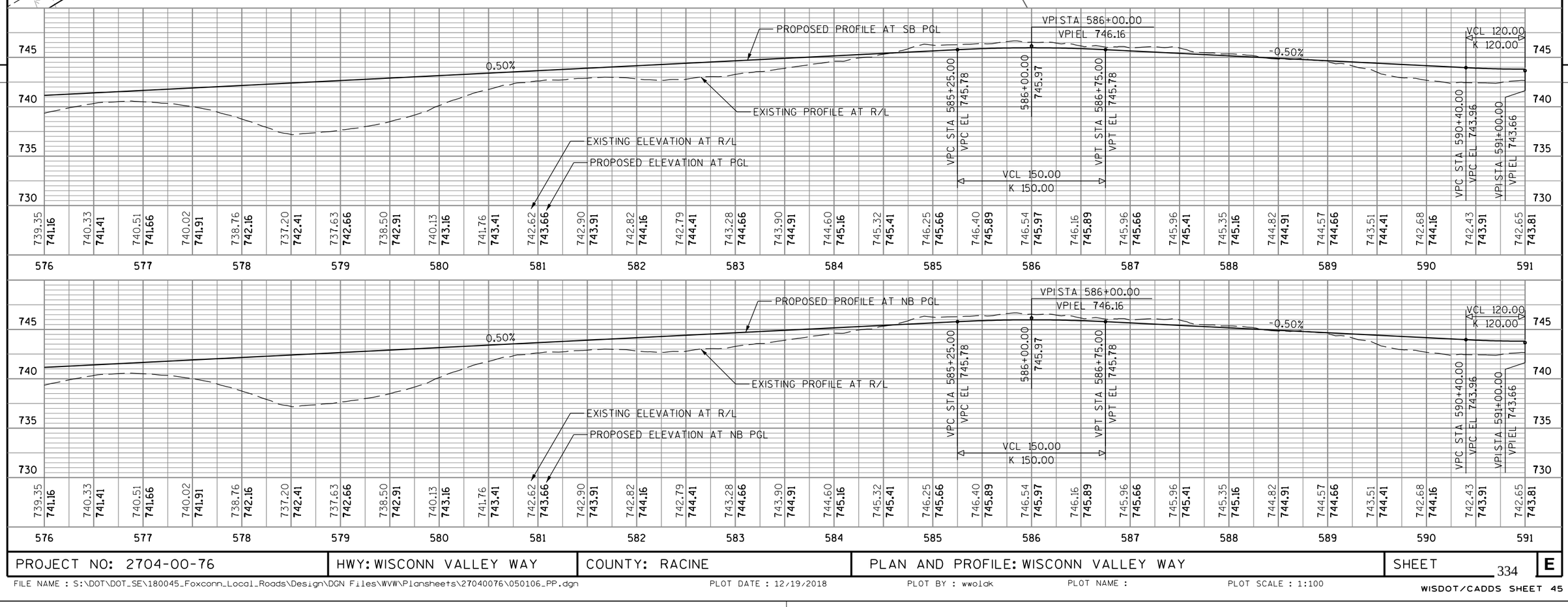
PROPOSED R/W

SLOPE INTERCEPT (TYP)

CONCRETE CURB AND GUTTER
30-INCH TYPE A

5

5



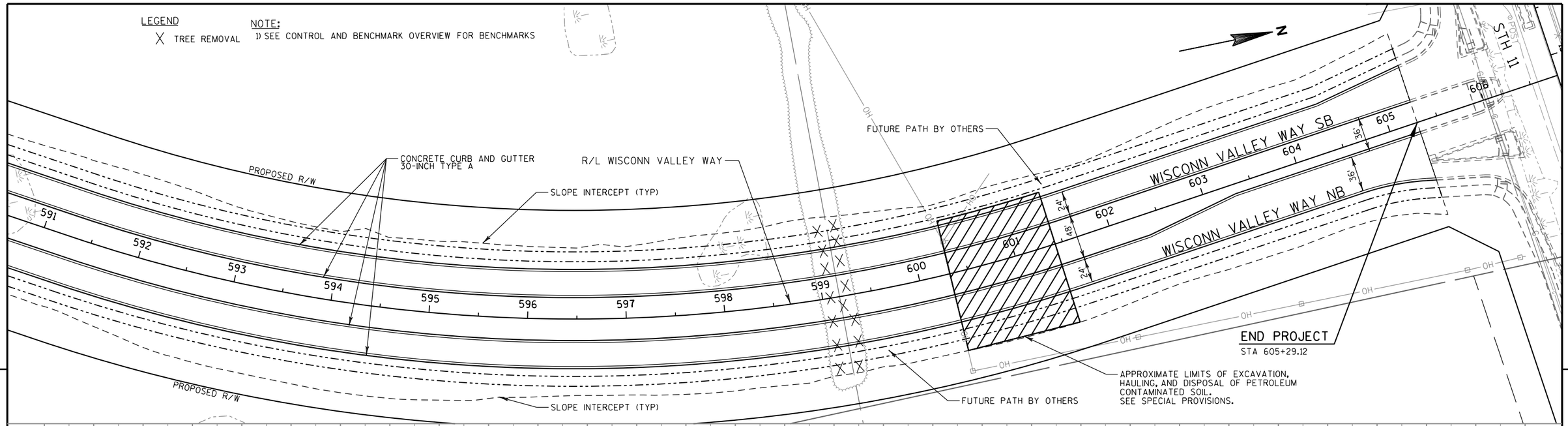
PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN AND PROFILE: WISCONN VALLEY WAY	SHEET 334	E

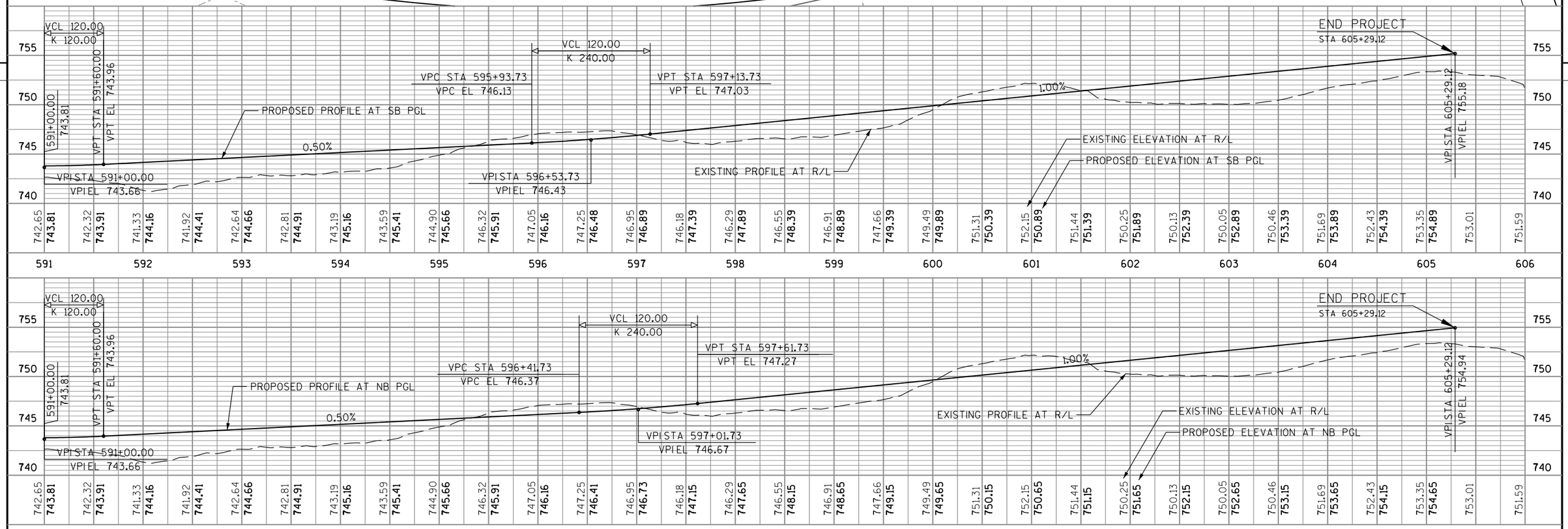
LEGEND

X TREE REMOVAL

NOTE:

1) SEE CONTROL AND BENCHMARK OVERVIEW FOR BENCHMARKS





PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN AND PROFILE: WISCONN VALLEY WAY	SHEET 335	E

BEGIN CONSTRUCTION
STA 54BRW+36.47
X=594561.83
Y=170407.23

BEGIN CONSTRUCTION
STA 54BRE+36.41
X=594560.75
Y=170359.24

EAST FRONTAGE ROAD

BRAUN ROAD

FUTURE PATH GRADING

R/L BRAUN ROAD WB

R/L BRAUN ROAD EB

EXISTING R/W

WETLAND BOUNDARY (TYP.)

PROPOSED R/W

SLOPE INTERCEPT (TYP.)

MATCHLINE 67BRE+00

54BRW 56BRW 58BRW 60BRW 62BRW 64BRW 66BRW

52BRE 54BRE 56BRE 58BRE 60BRE 62BRE 64BRE 66BRE

12'

EQUATION

STATION EQUATION
STA 54BRE+36.47 BACK =
STA 54BRE+36.41 AHEAD

N

5

5

BEGIN CONSTRUCTION
STA 54BRE+36.41

VPI STA 54+64.95
VPI EL 752.30

VPT STA 55+89.95
VPT EL 750.59

VCL = 265'
K = 123

1.66%

VPT STA 52+49.50
VPT EL 748.73

VPC STA 53+40.00
VPC EL 750.23

POC ELEV
751.27

VCL = 250'
K = 83

-1.37%

PROPOSED PROFILE AT R/L EB

EXISTING PROFILE AT R/L EB

VPC STA 62+54.00
VPC EL 741.52

VCL = 200'
K = 104

0.55%

VPI STA 63+54.00
VPI EL 740.16

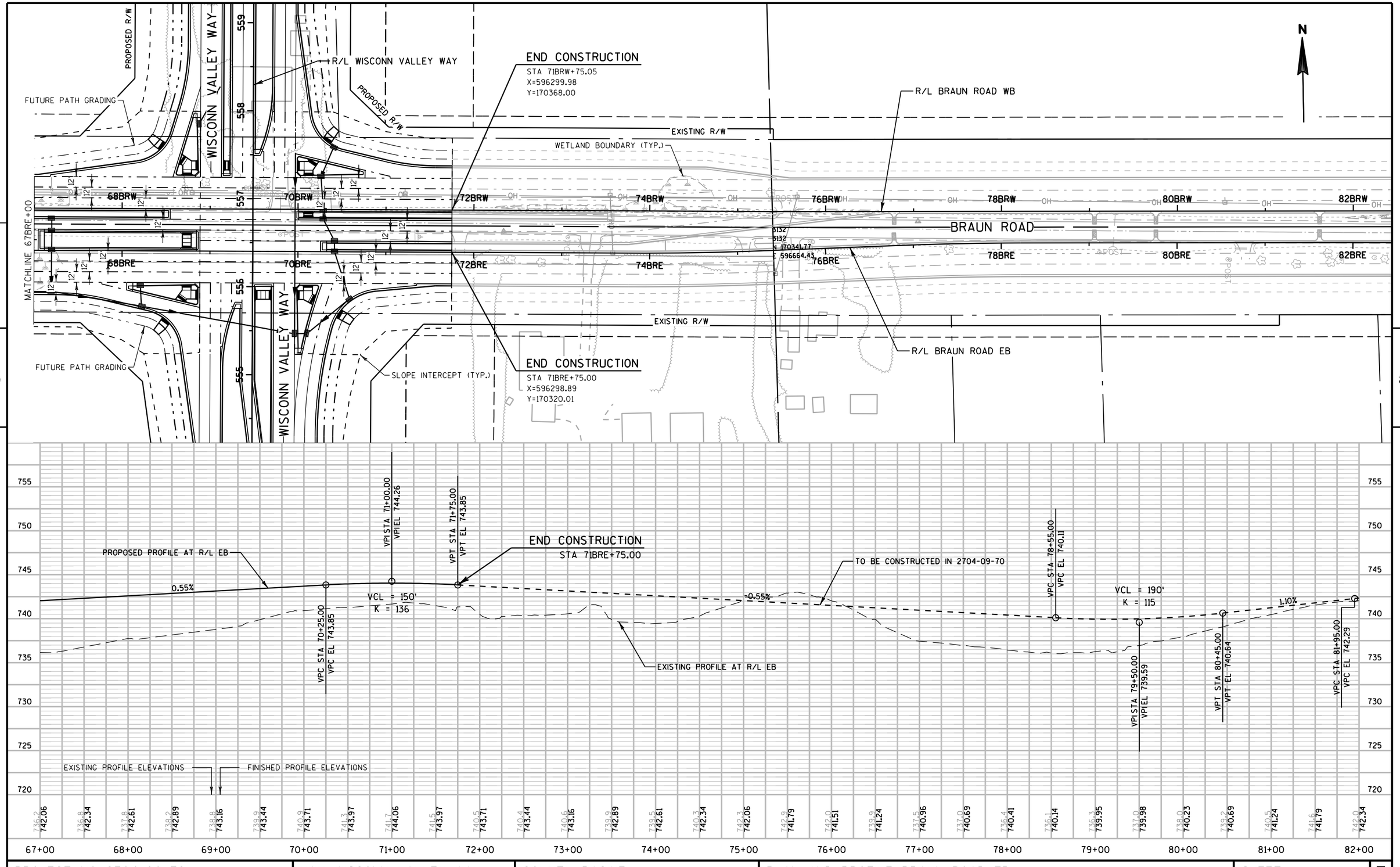
VPT STA 64+54.00
VPT EL 740.71

TO BE CONSTRUCTED
IN 1030-24-79

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

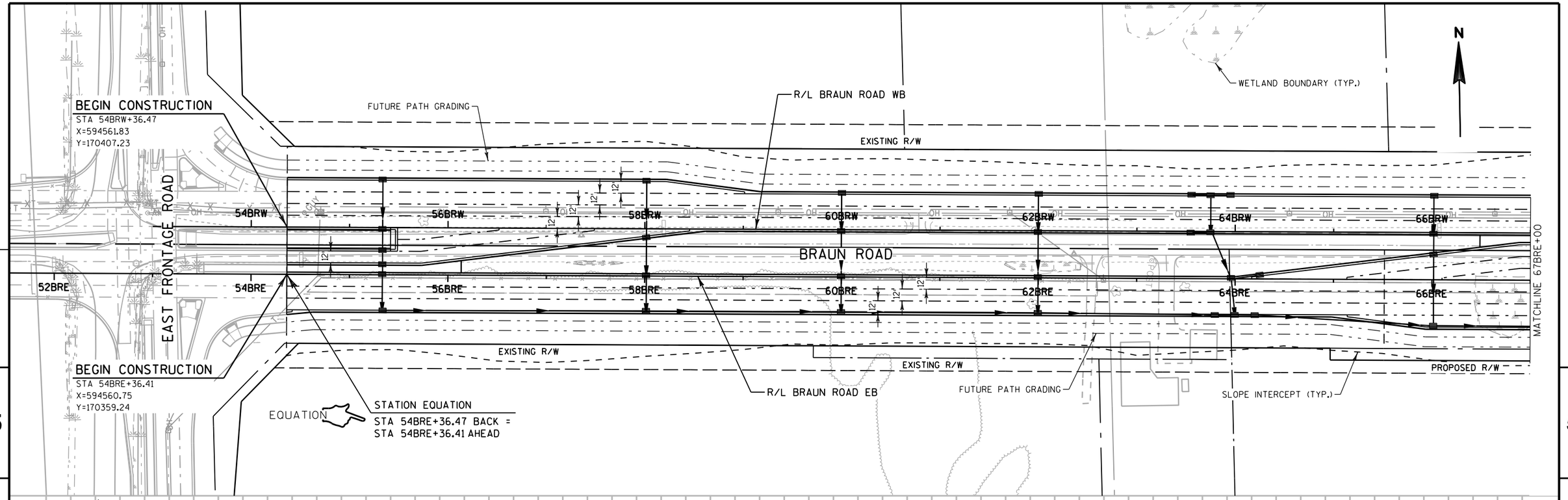
| | | |



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN AND PROFILE: BRAUN ROAD EB	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PLOTS\01021_29EB2016m11:21:00 AM PLOT BY : jdepies PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 40



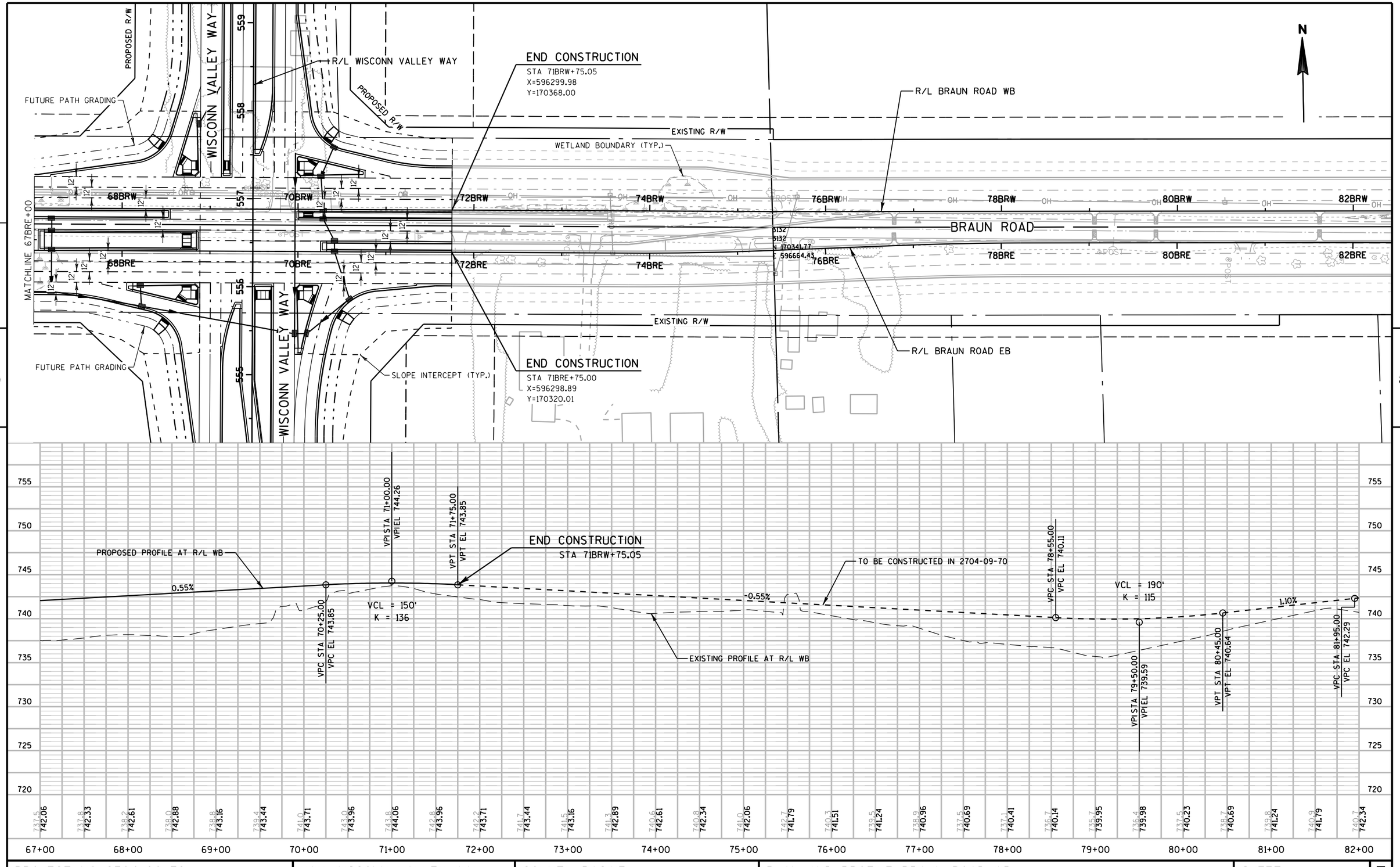
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5

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN AND PROFILE: BRAUN ROAD WB	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PLOT BY : jdepies PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 40



PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PLAN AND PROFILE: BRAUN ROAD WB	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PLOTS\01041_2704-00-76_11:21:11 AM PLOT BY : jdepies PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 40

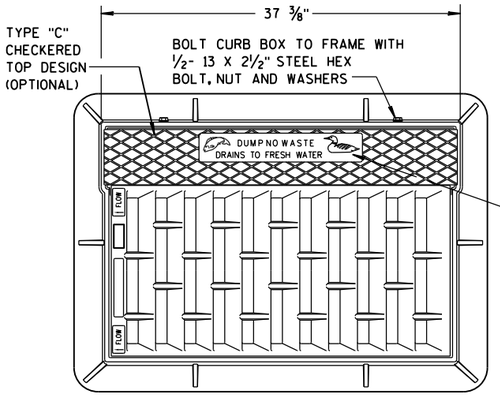
Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
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
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-19A	CURB RAMPS TYPES 1 AND 1-A
08D05-19B	CURB RAMPS TYPES 2 AND 3
08D05-19C	CURB RAMPS TYPES 4A AND 4A1
08D05-19D	CURB RAMPS TYPE 4B AND 4B1
08D05-19E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-19F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-19G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-10	CONDUIT
09B04-11	PULL BOX
09C02-07	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C06-07	CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL
09C11-10	CONCRETE BASE TYPE 10
09C12-09A	CONCRETE BASE TYPE 13
09C12-09B	CONCRETE BASE TYPE 13
09C13-02	CONCRETE BASE TYPE 10 & TYPE 13 EXTENSION
09C14-02	CONCRETE CONTROL CABINET BASE, TYPE L
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D02-03	SIGNAL CONTROL CABINET
09E01-14B	POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 3 (HEAVY DUTY)
09E03-05	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E07-05	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09E08-08A	TYPE 9 POLE 15'-30' MONOTUBE ARM
09E08-08B	TYPE 10 POLE 15'-30' MONOTUBE ARM
09E08-08C	TYPE 12 POLE 35'-55' MONOTUBE ARM
09E08-08E	GENERAL NOTES AND HARDWARE DETAILS FOR TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS
09F15-04A	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)
09F15-04B	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
09H09-02	COMMUNICATION VAULT TYPE 1
09H11-01	IDENTIFICATION PLAQUE REQUIREMENTS AND PLACEMENTS
11B02-02	CONCRETE MEDIAN NOSE
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-09	URBAN DOWELED CONCRETE PAVEMENT
13C18-06A	CONCRETE PAVEMENT JOINTING
13C18-06B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-06C	CONCRETE PAVEMENT JOINT TYPES
13C18-06D	CONCRETE PAVEMENT JOINT TYPES AT UTILITY FIXTURES
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15B03-15A	FENCE CHAIN LINK
15B03-15B	FENCE CHAIN LINK
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C08-19B	PAVEMENT MARKING (TURN LANES)
15C08-19C	PAVEMENT MARKING (TURN LANES)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C15-05	36" DIAMETER FULL SPAN OVERHEAD SIGN SUPPORT BASE

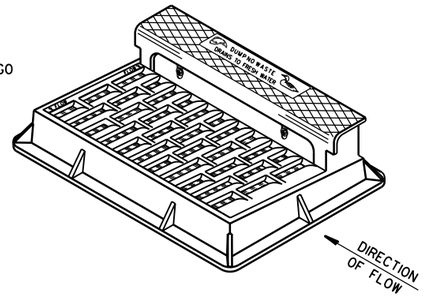
6

Standard Detail Drawing List

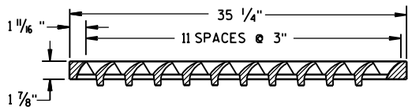
15C20-02	YIELD MARKING
15C27-03A	DOUBLE ARROW WARNING SIGN PLACEMENT
15C27-03B	PAVEMENT MARKING (ISLANDS)
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D20-04	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D29-05	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

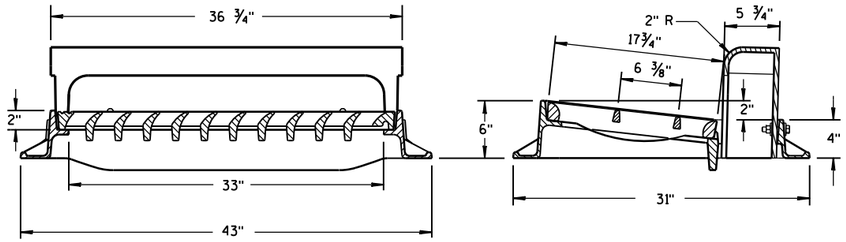


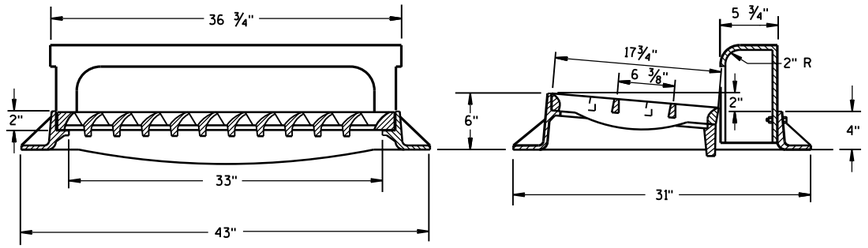
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

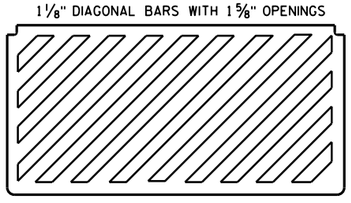






TYPE "H"

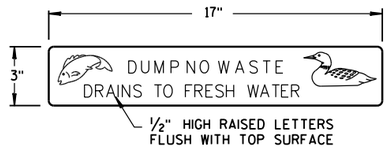
NOTE: EITHER CASTING IS ACCEPTABLE



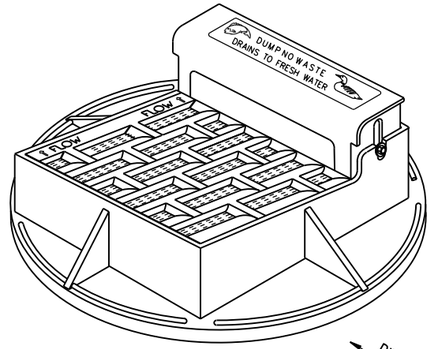
SPECIAL GRATE FOR TYPE "H" COVER

(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"

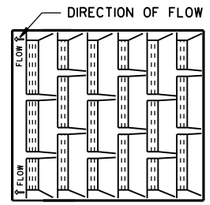
NOTE:
GRATE IS REVERSIBLE.

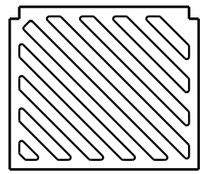
GENERAL NOTES

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.

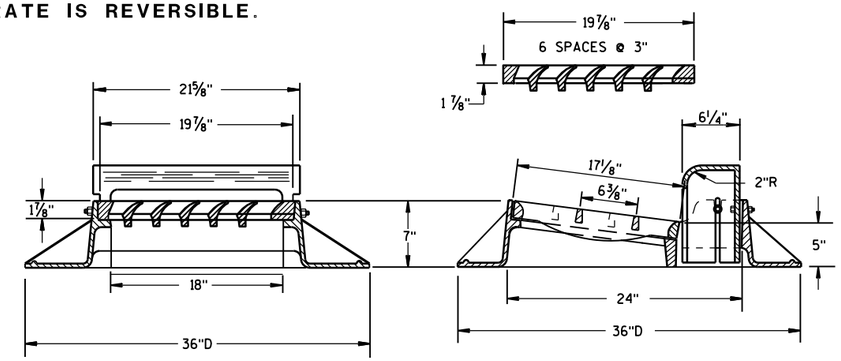




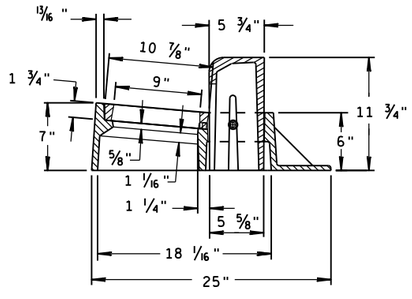
SPECIAL GRATE FOR TYPE "A" COVER

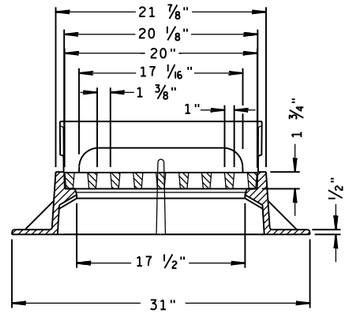
(MEASURES 19 3/4" X 17" X 1 7/8")

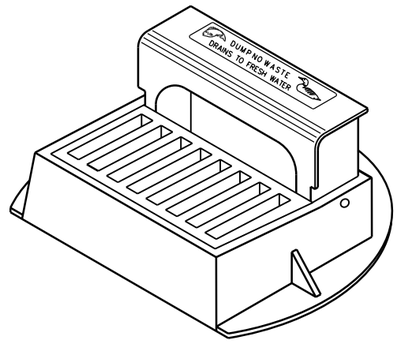
(NOTED AS TYPE A-S ON DRAINAGE TABLE)



TYPE "A"







TYPE "Z"

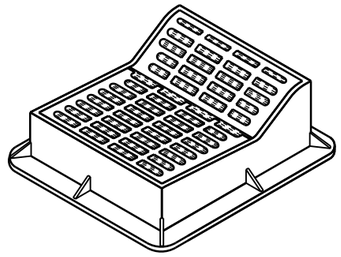
INLET COVERS
TYPE A, H, A-S, H-S & Z

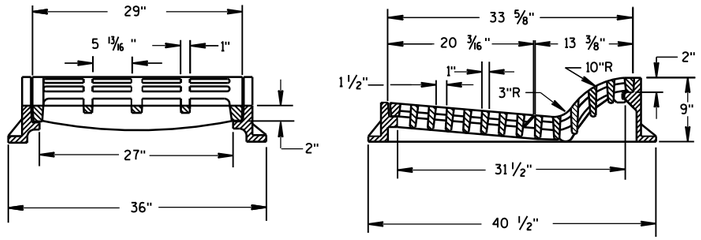
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

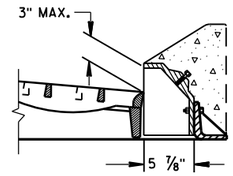
S.D.D. 8 A 5-19a





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

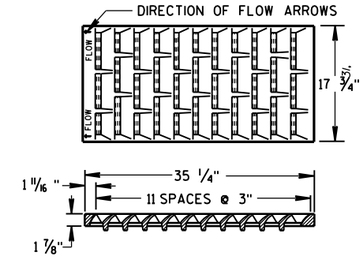
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

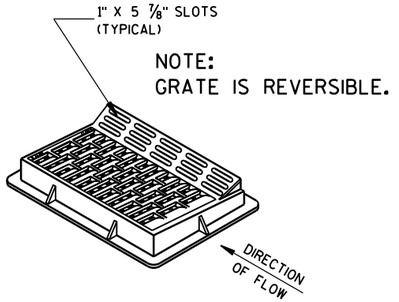
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

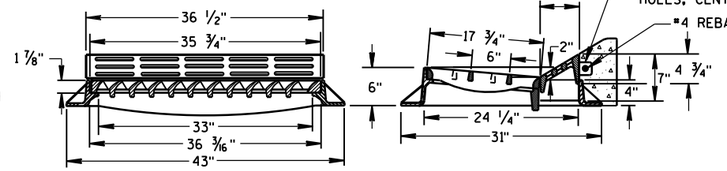
GENERAL NOTES

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.



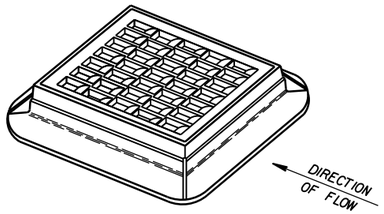


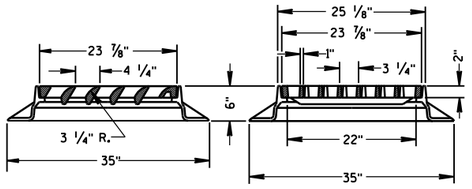


TYPE "HM"

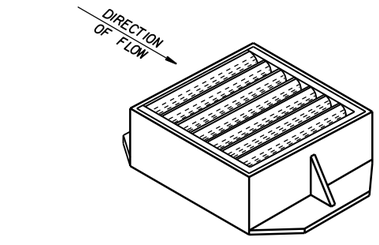
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

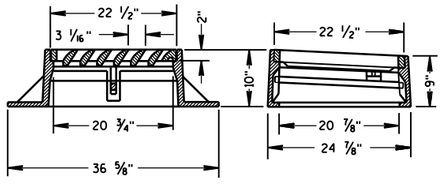
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



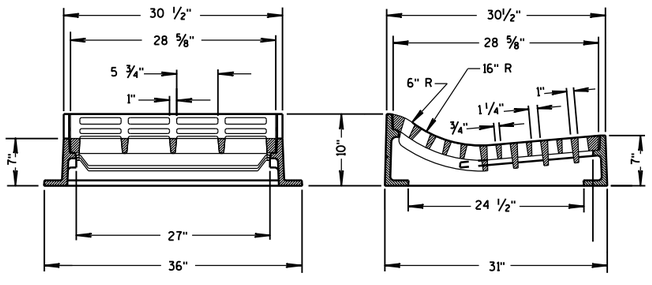


TYPE "S"



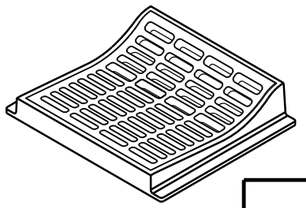


TYPE "V"



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

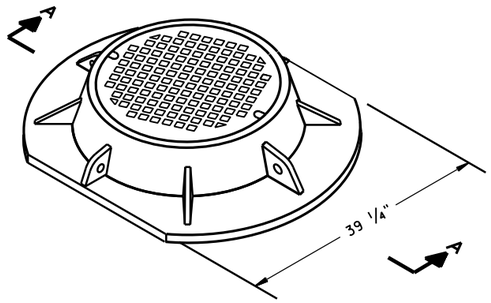
APPROVED
11/27/2013
DATE

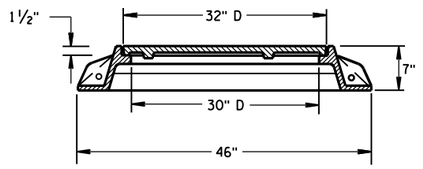
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

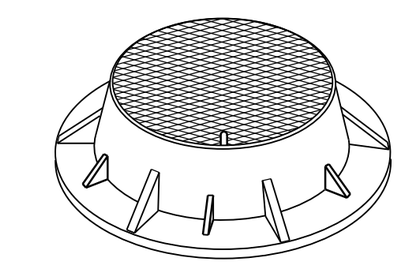
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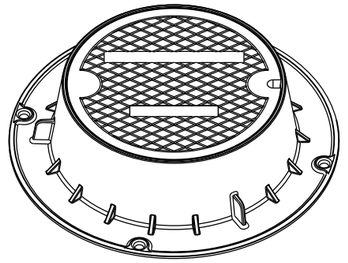
S.D.D. 8 A 5-19c

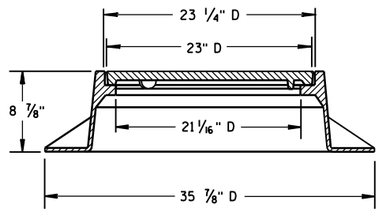


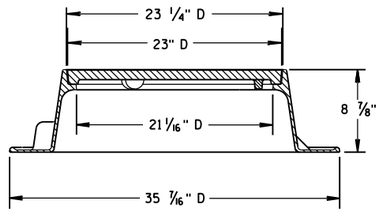


SECTION A-A
TYPE "K"









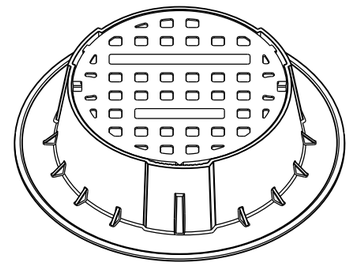
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

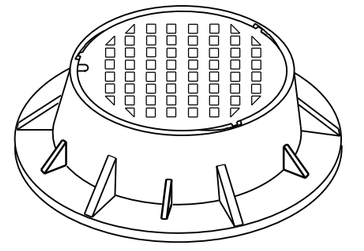
GENERAL NOTES

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.

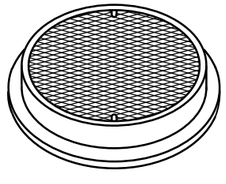
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

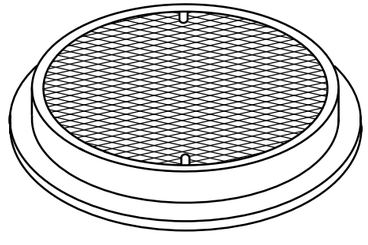
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

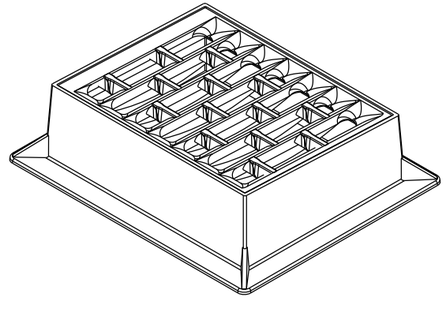


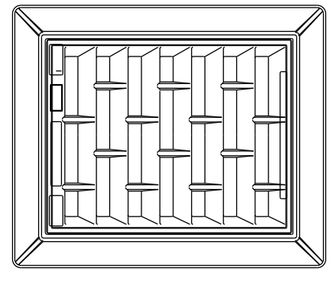


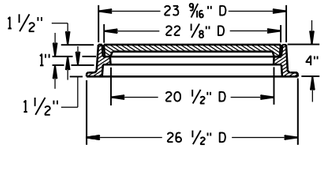
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



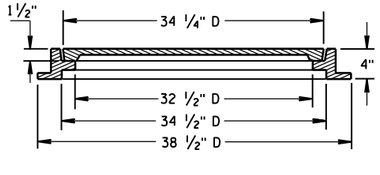




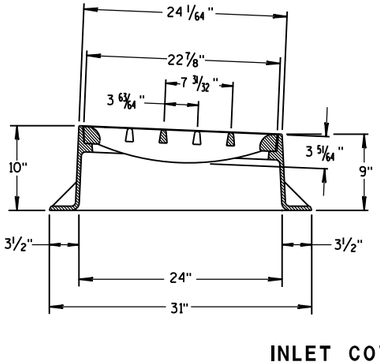


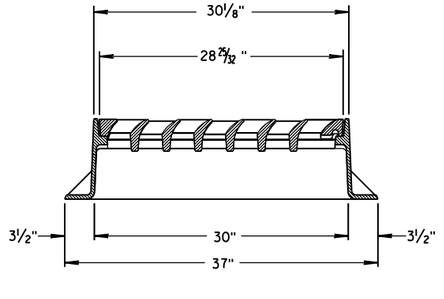


TYPE "L"



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

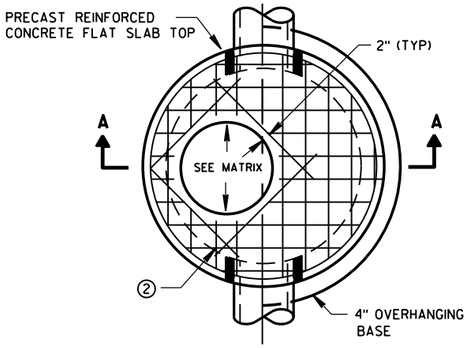
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

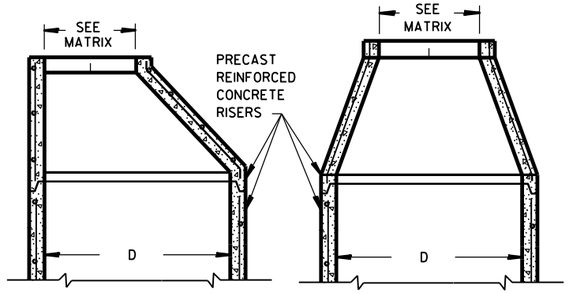
S.D.D. 8 A 5-19d

6

S.D.D. 8 A 5-19d

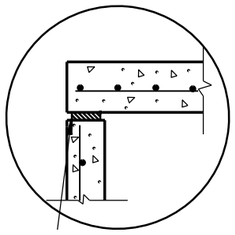


PLAN VIEW CIRCULAR OPENING

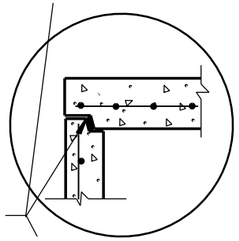


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

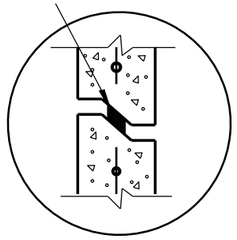


TOP WITH PLAIN END JOINT



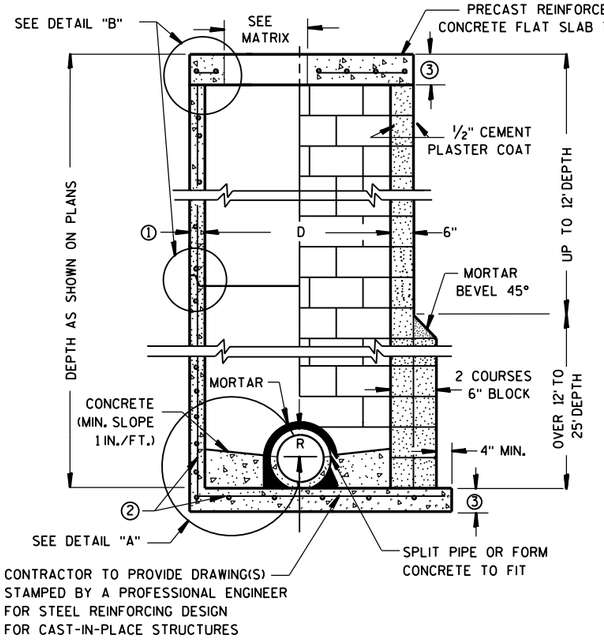
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



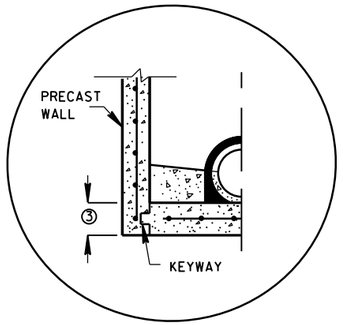
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

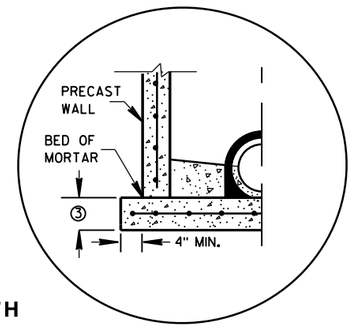


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

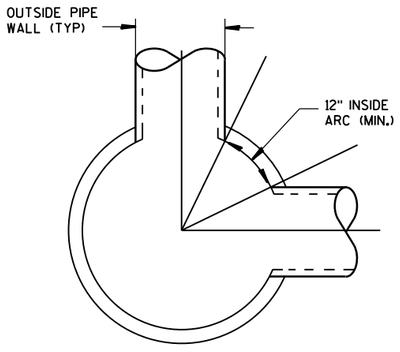


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2016
DATE

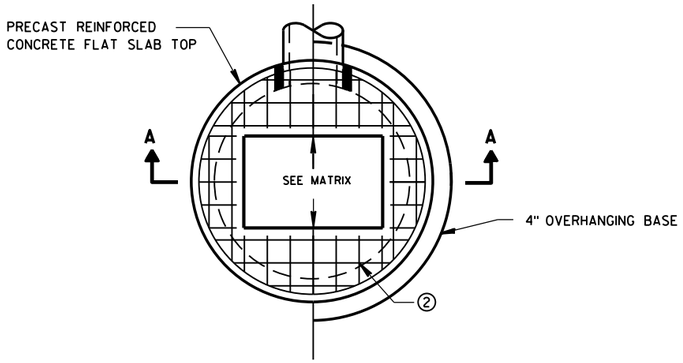
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

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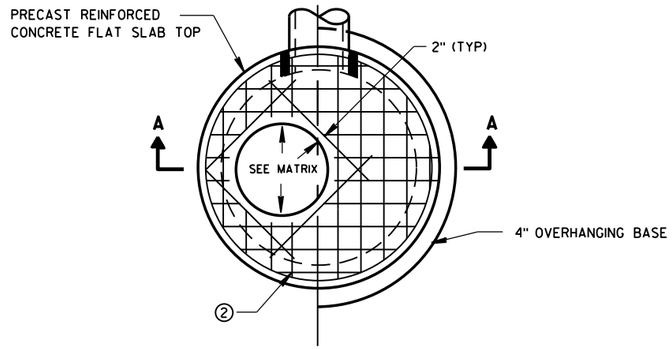
MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

S.D.D. 8 B 9-2

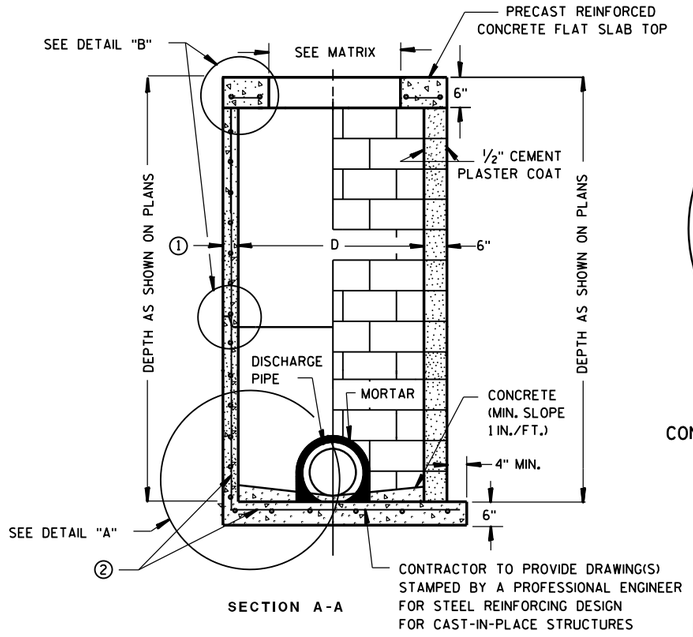
6



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

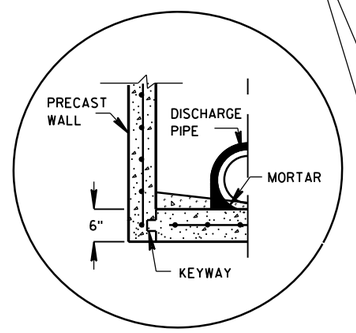


SECTION A-A

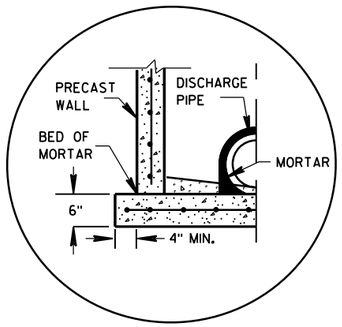
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

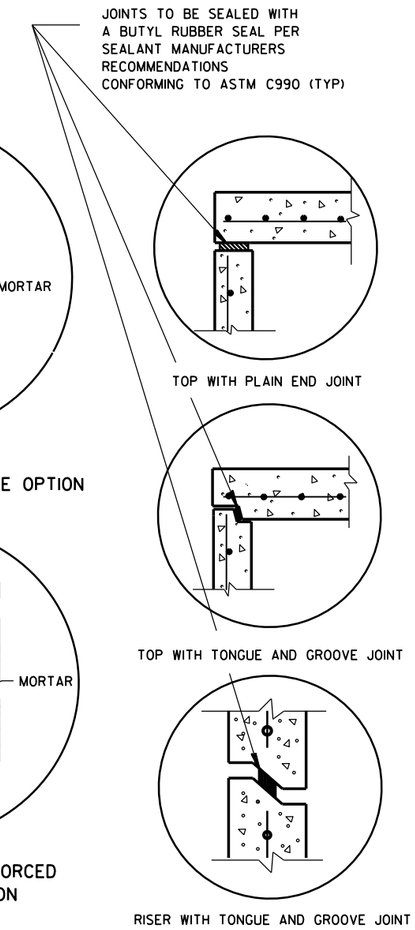


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

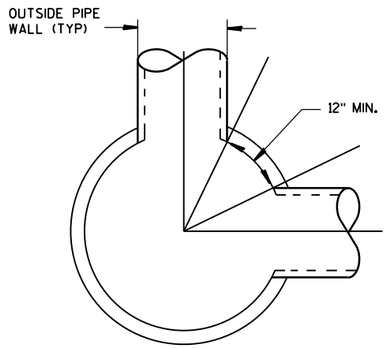
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

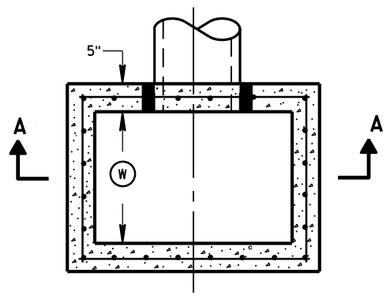
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS | UNIT SUPERVI ENT
FHWA

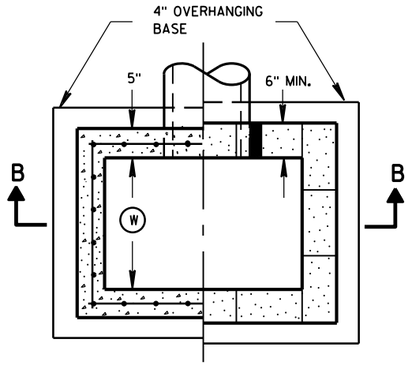
INLETS 3-FT AND 4-FT DIAMETER

6

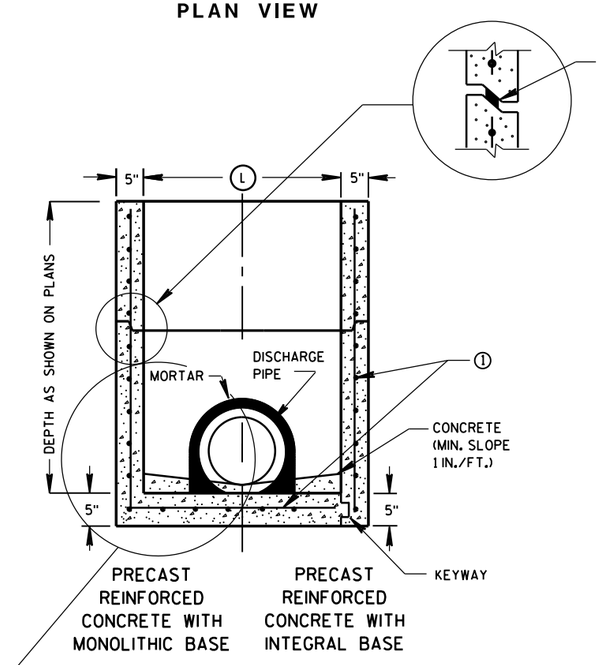
S.D.D. 8 C 6-2



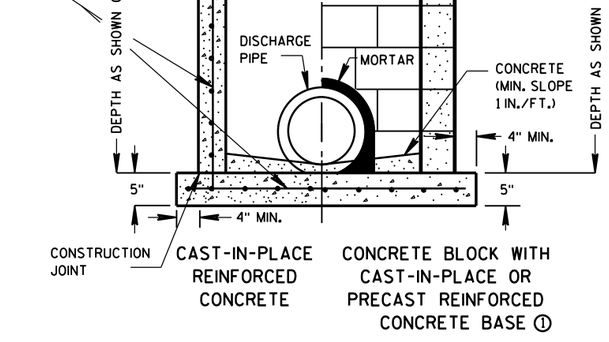
PLAN VIEW



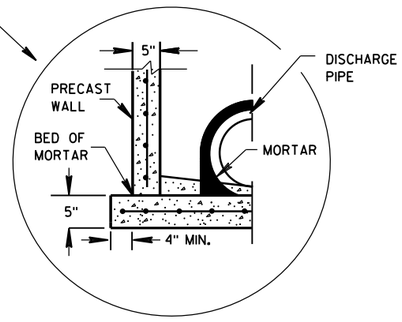
PLAN VIEW



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 FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 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.

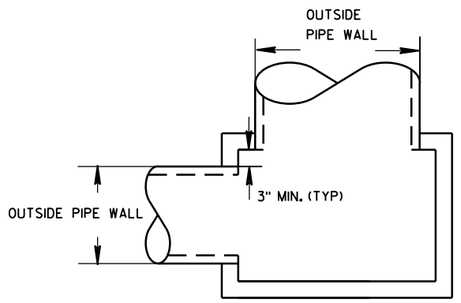
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

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

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Sept., 2016
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT
UNIT SUPERVIS
FHWA

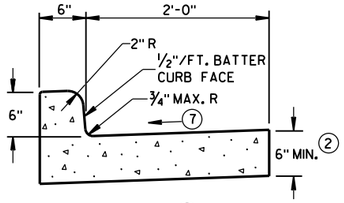
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

6

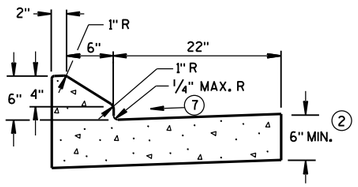
S.D.D. 8 C 7-2

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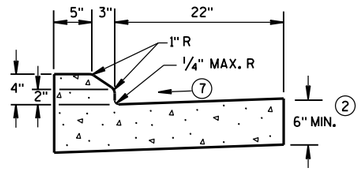
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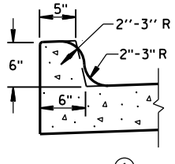
TYPES A (1) & D



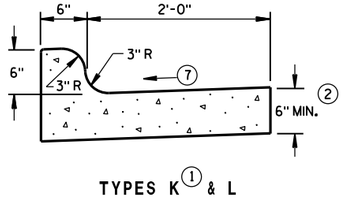
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

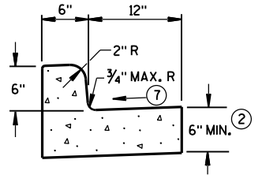


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



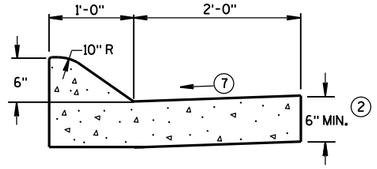
TYPES K (1) & L

CONCRETE CURB & GUTTER 30"

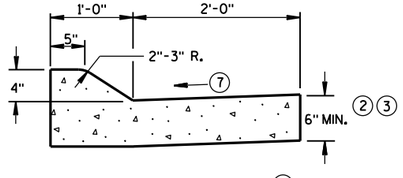


TYPES A (1) & D

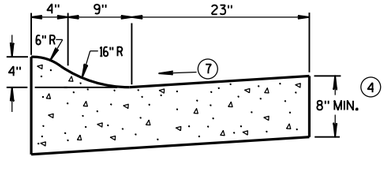
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

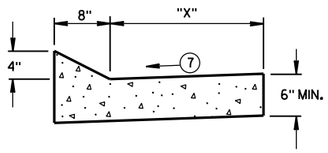


4" SLOPED CURB TYPES A (1) & D



4" SLOPED CURB TYPES R (1) & T (5)

CONCRETE CURB & GUTTER 36"



TYPES TBT & TBTT (1)

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

GENERAL NOTES

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

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(5) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

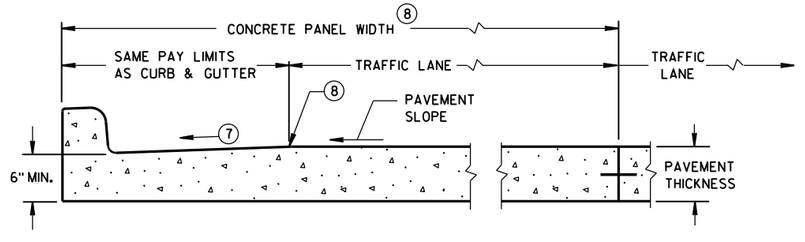
(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

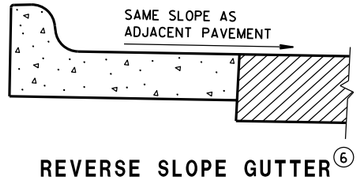
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT *
WITH INTEGRAL CURB & GUTTER

* BIKE LANE IS NOT SHOWN.



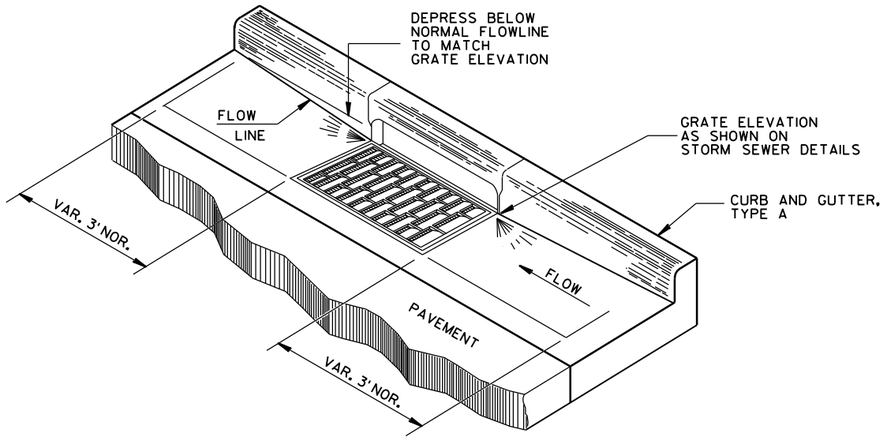
REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

CONCRETE CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 8 D 1-20a



DETAIL OF CURB AND GUTTER AT INLETS

(TYPE H INLET COVER SHOWN)

GENERAL NOTES

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

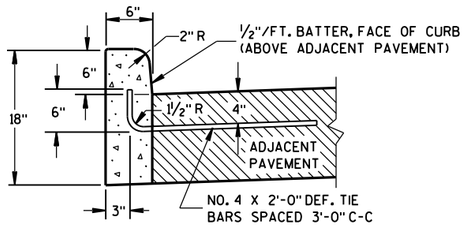
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

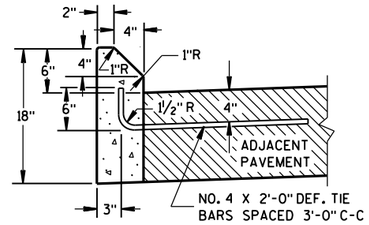
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(9) REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

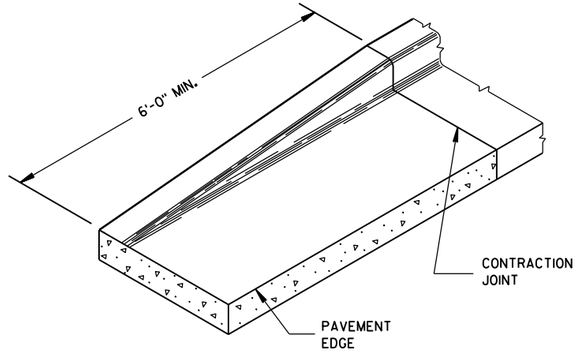


TYPES A(1) & D

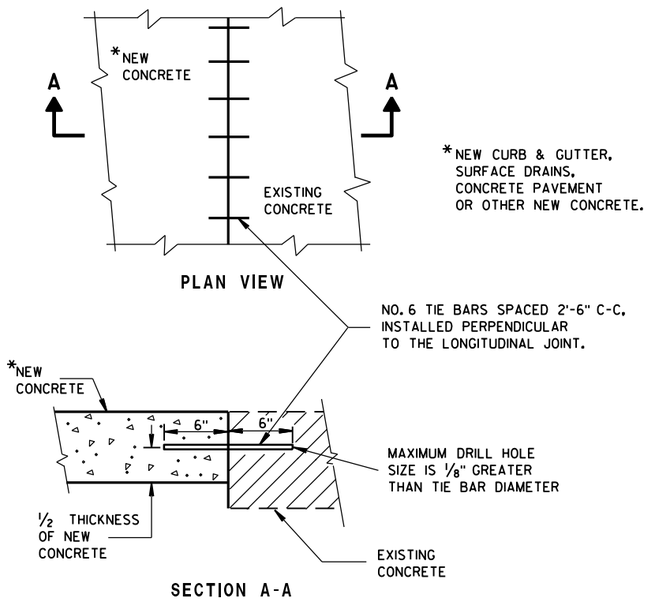


TYPES G(1) & J

CONCRETE CURB



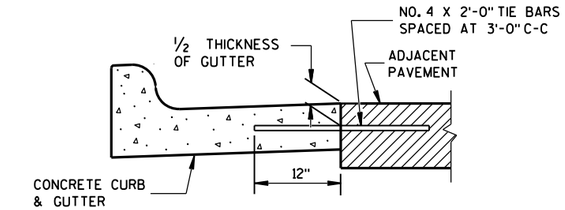
END SECTION CURB & GUTTER



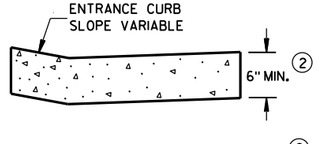
PLAN VIEW

SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

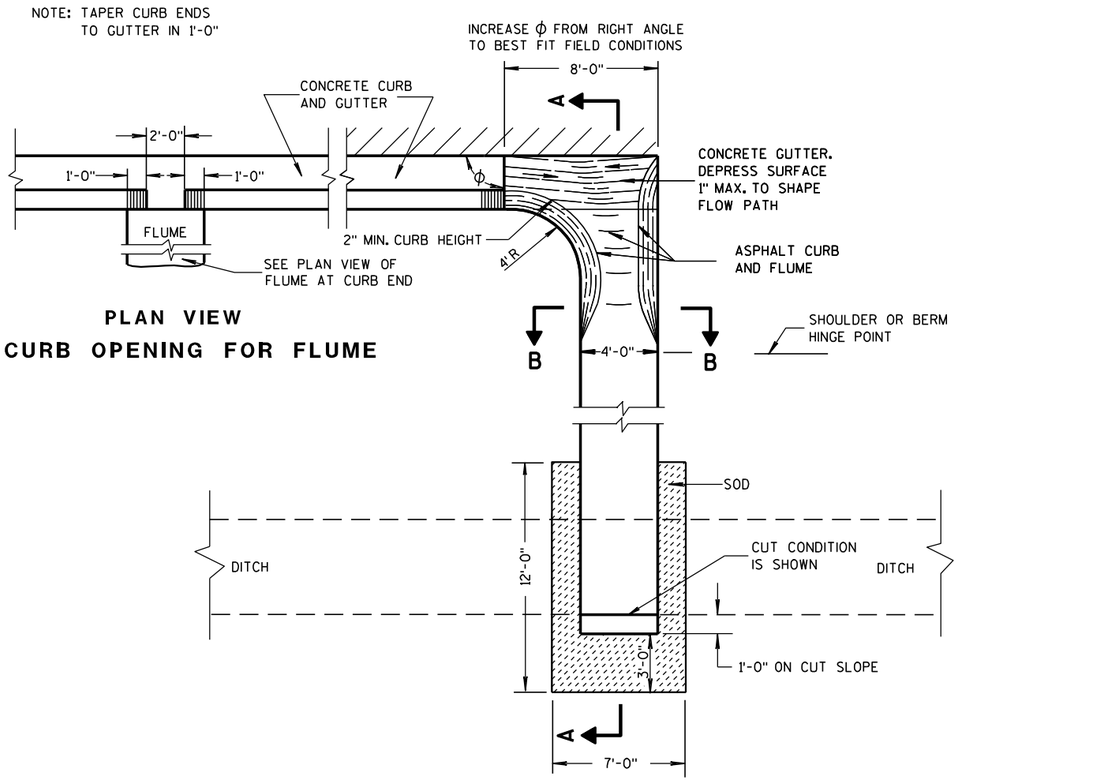
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2017 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS 349 ENT
UNIT SUPERVISOR
FHWA

6

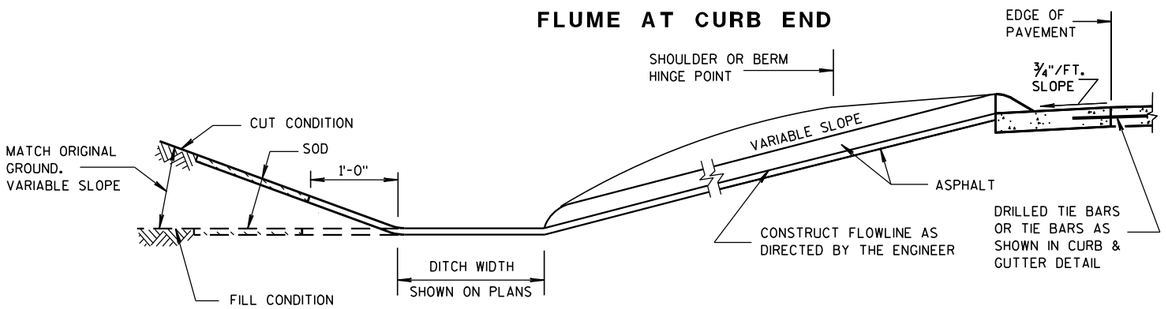
S.D.D. 8 D 1-20b

ASPHALTIC FLUME

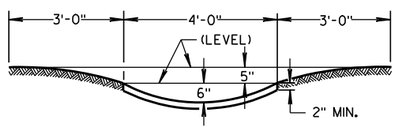


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

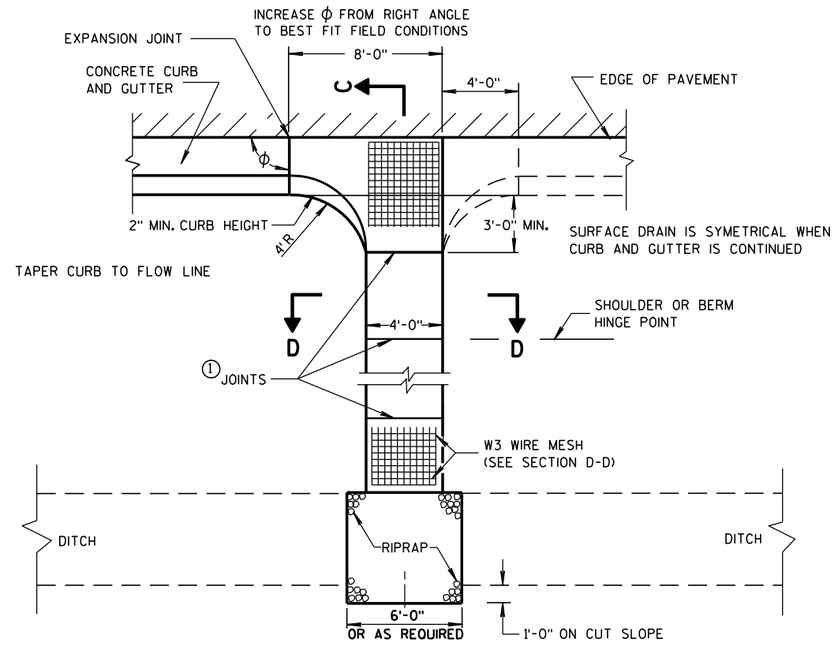
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

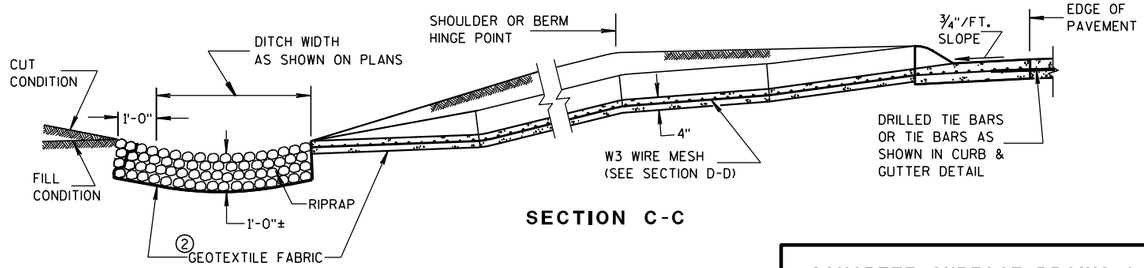
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

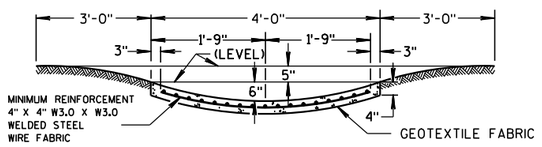
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

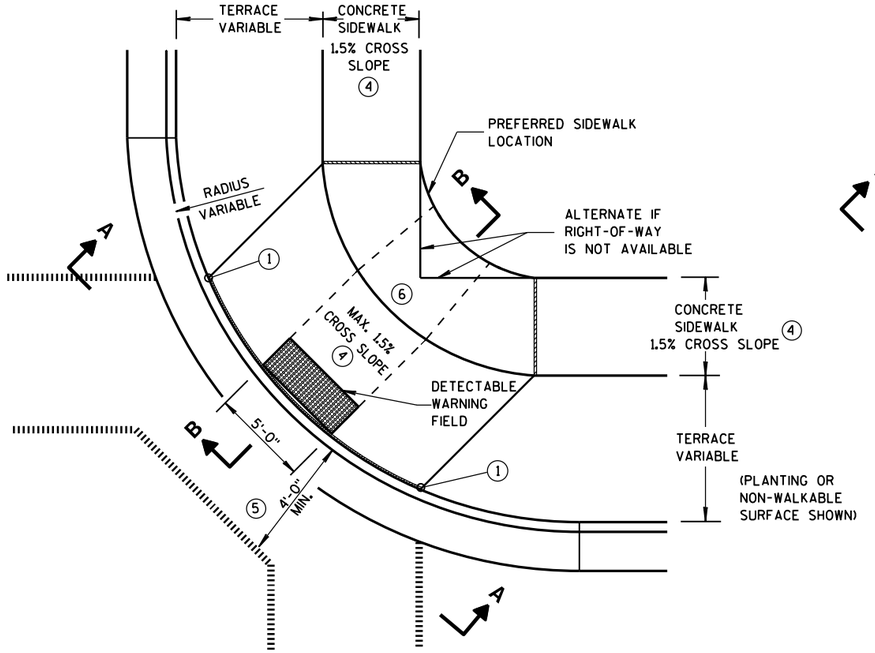
APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER 350 MENT
FHWA

6

S.D.D. 8 D 4-5

6

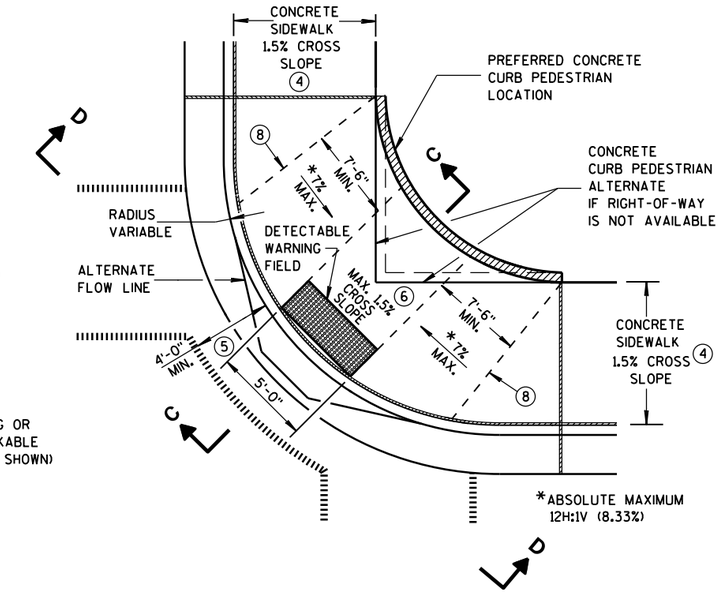
S.D.D. 8 D 4-5



PLAN VIEW

TYPE 1 RAMP

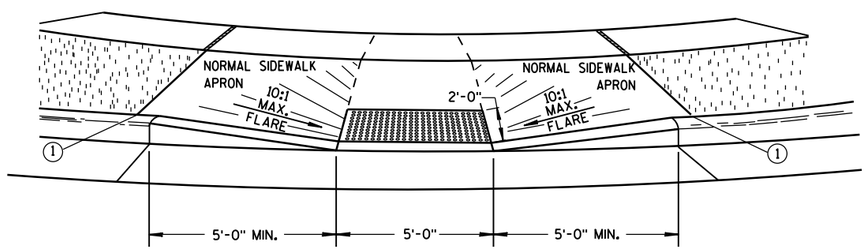
(CENTER OF CORNER RADIUS)



PLAN VIEW

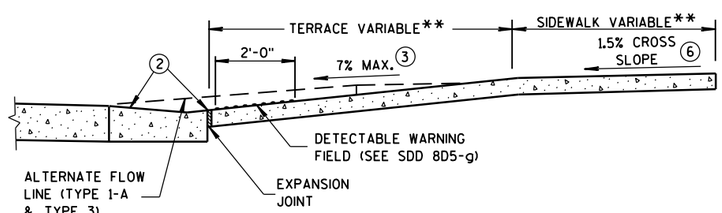
TYPE 1-A RAMP

(NO TERRACE)

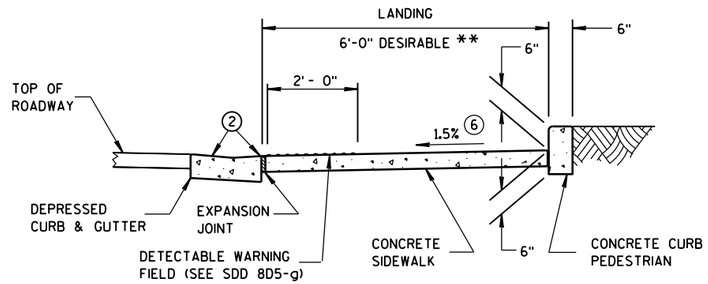


VIEW A-A

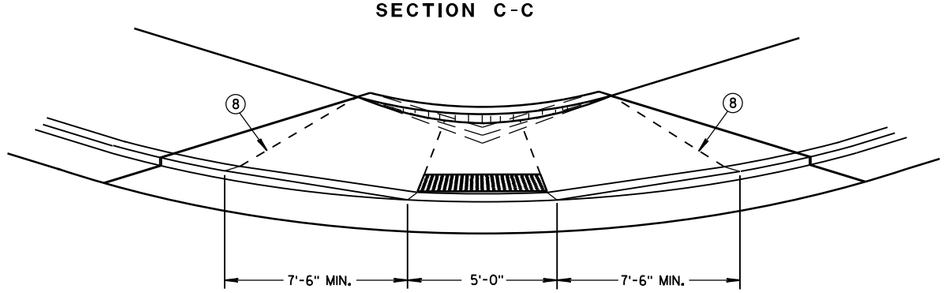
** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B



SECTION C-C



VIEW D-D

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA. (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

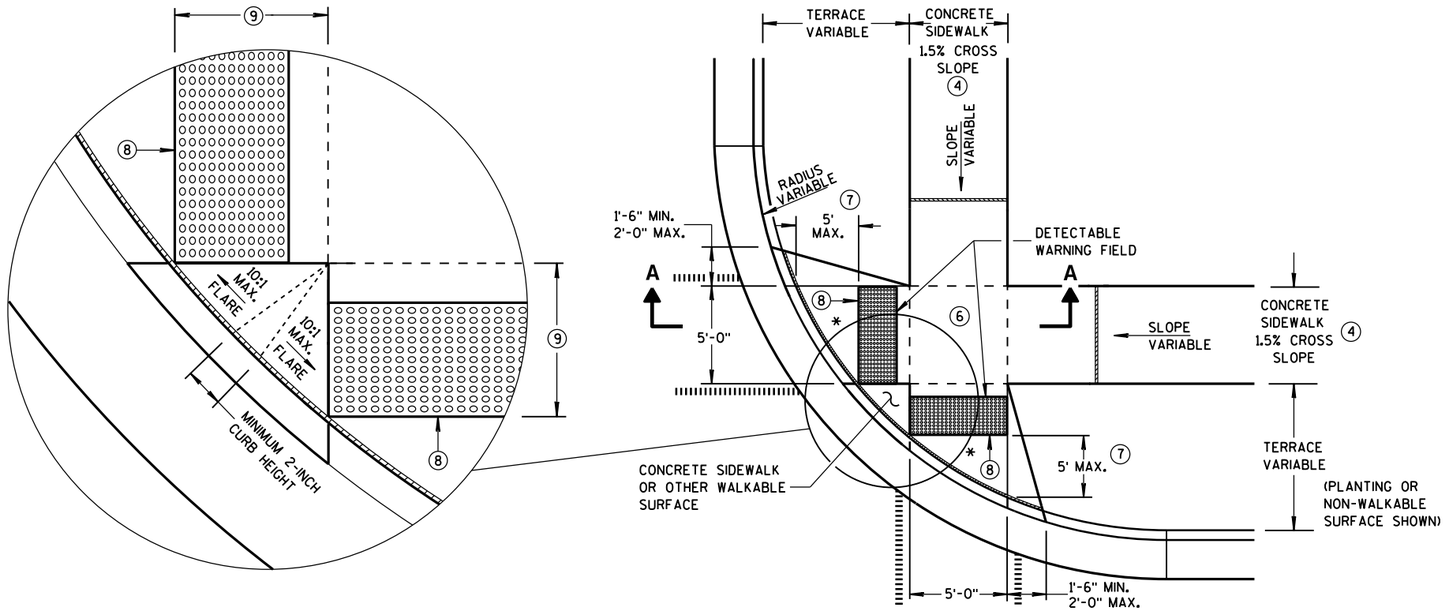
- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 8 D 5-19a

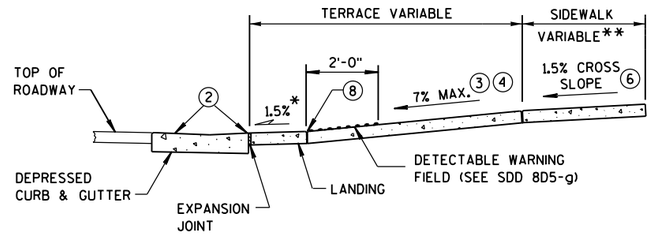


PLAN VIEW

TYPE 2 RAMP

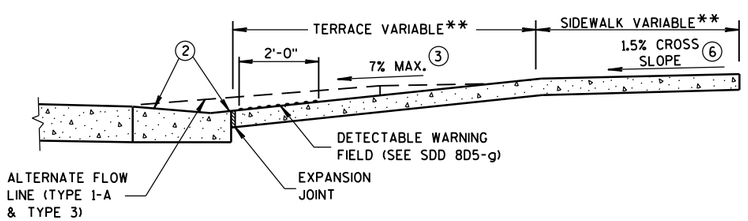
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

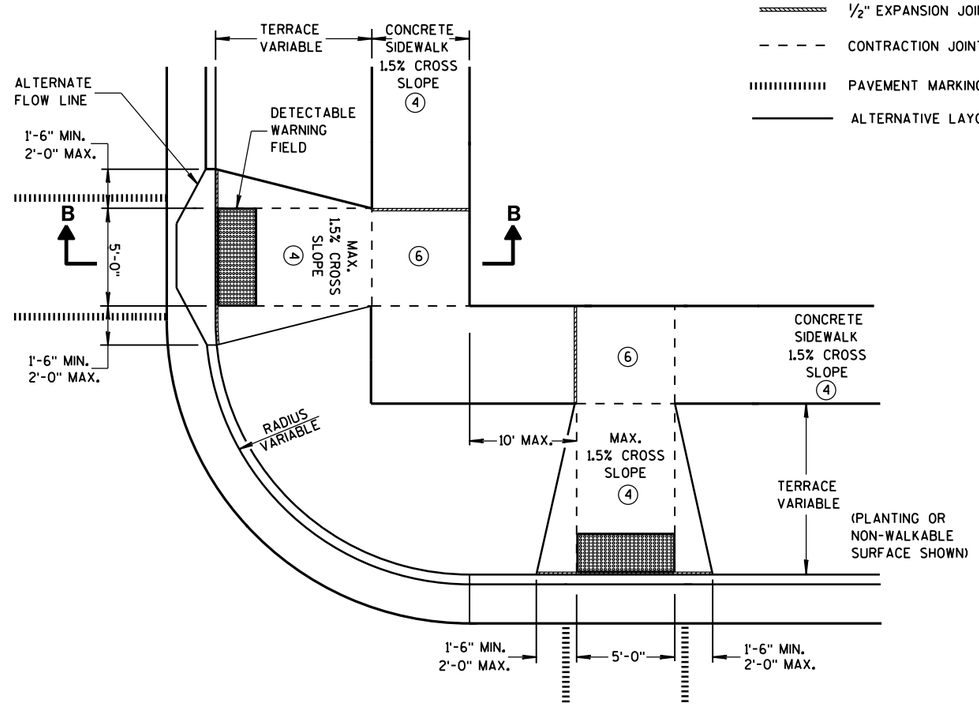


SECTION A-A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B



PLAN VIEW

TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(9) WHEN THIS DISTANCE IS LESS THAN 6'-0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

6

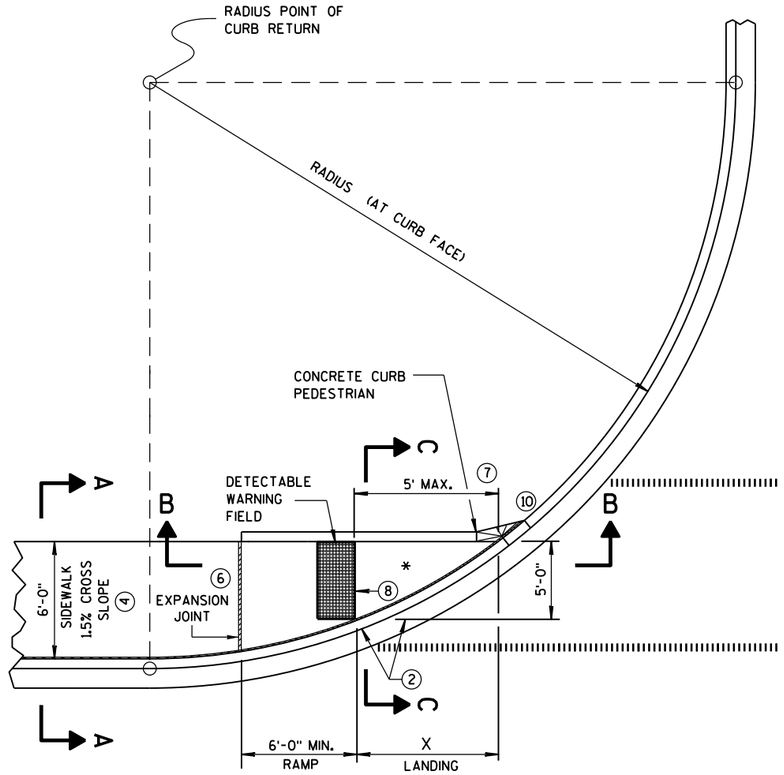
S.D.D. 8 D 5-19b

6

S.D.D. 8 D 5-19b

CURB RAMPS TYPES 2 AND 3

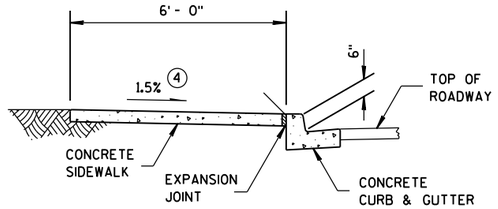
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO



CURB RAMP TYPE 4A
PLAN VIEW

RADIUS (AT CURB FACE)	X
10 FEET	4'-7"
15 FEET	6'-5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

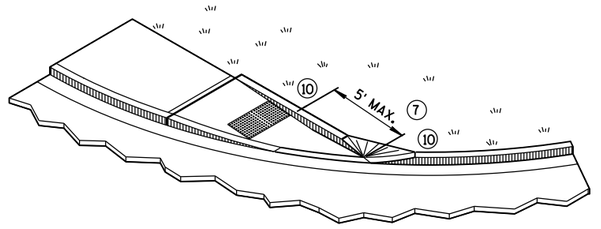
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

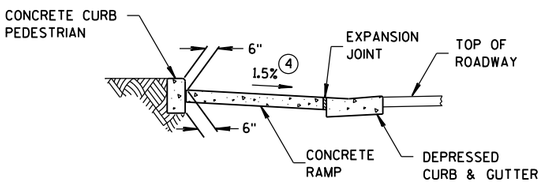
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

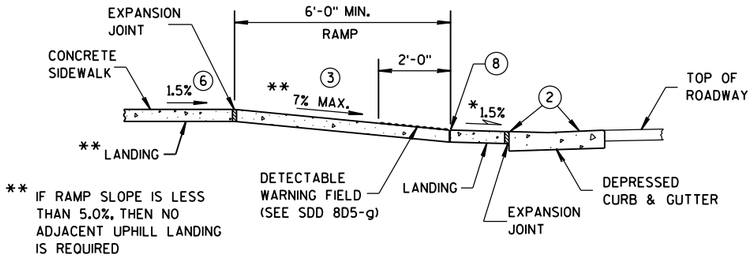
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW FOR TYPE 4A



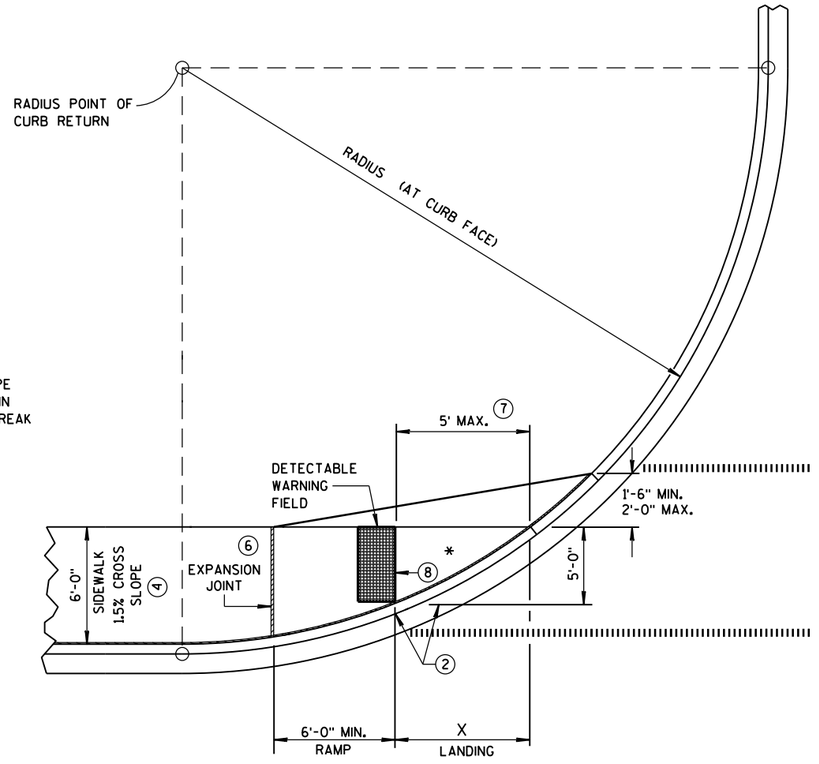
SECTION C-C FOR TYPE 4A



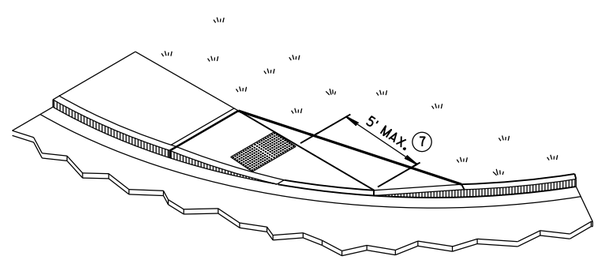
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

SECTION B-B FOR TYPE 4A

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



CURB RAMP TYPE 4A1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

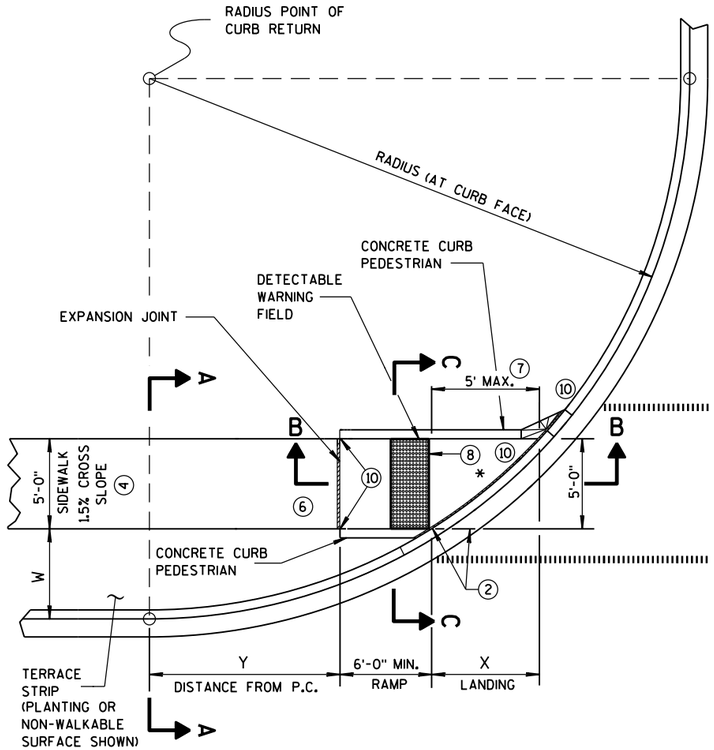
PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 4A AND 4A1

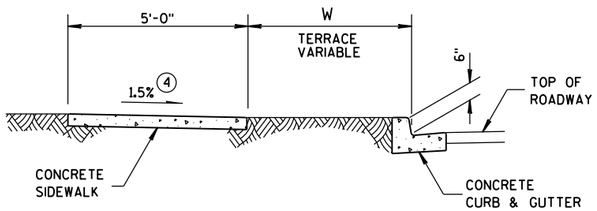
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

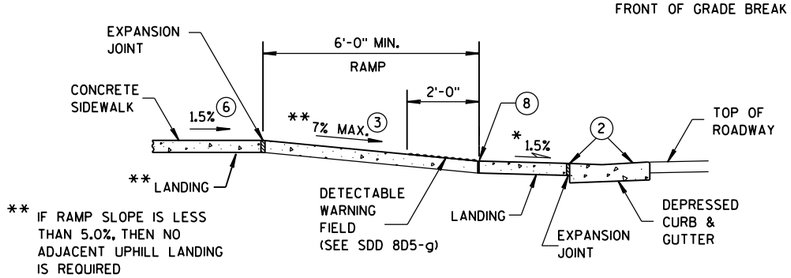
S.D.D. 8 D 5-19c



CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



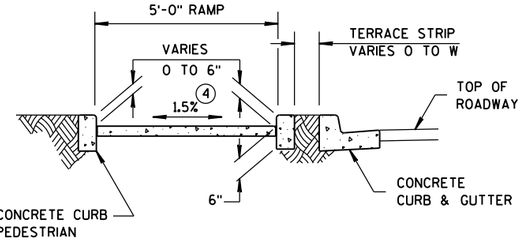
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

SECTION B-B FOR TYPE 4B

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"		W = 8'-0"		W = 9'-0"		W = 10'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2'-10¼"	0'-5"	2'-1"	1'-4½"	1'-5"	2'-1"	0'-10"	2'-7½"	0'-3¼"	3'-0¼"						
15 FEET	4'-6¾"	2'-1¾"	3'-9"	3'-5¼"	3'-1¼"	4'-6"	2'-6¾"	5'-4½"	2'-1"	6'-1"	1'-8"	6'-8½"	1'-3¼"	7'-2½"	0'-10¾"	7'-7¼"
20 FEET	5'-9¾"	3'-6½"	4'-11½"	5'-1¾"	4'-3¼"	6'-5½"	3'-8¾"	7'-7"	3'-3"	8'-6½"	2'-10"	9'-4½"	2'-5½"	10'-1¼"	2'-1¼"	10'-9"
30 FEET			6'-9¼"	7'-11¼"	6'-0¼"	9'-8"	5'-5"	11'-1¾"	4'-10¾"	12'-5¾"	4'-5½"	13'-7¾"	4'-0¾"	14'-8½"	3'-8½"	15'-8¼"
40 FEET									6'-1¾"	15'-8½"	5'-8"	17'-2"	5'-3"	18'-5¾"	4'-10¾"	19'-8¼"
50 FEET															5'-10¼"	23'-2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH



SECTION C-C FOR TYPE 4B

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

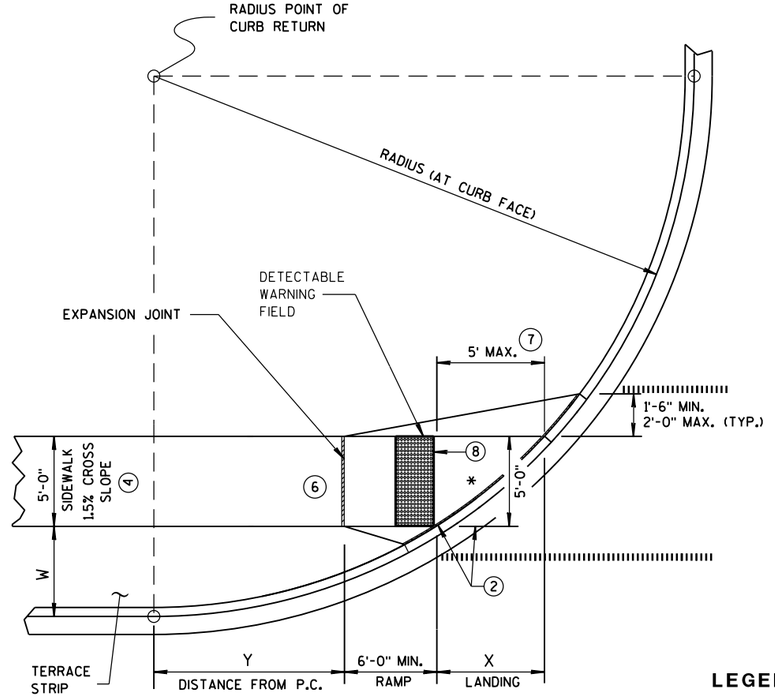
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

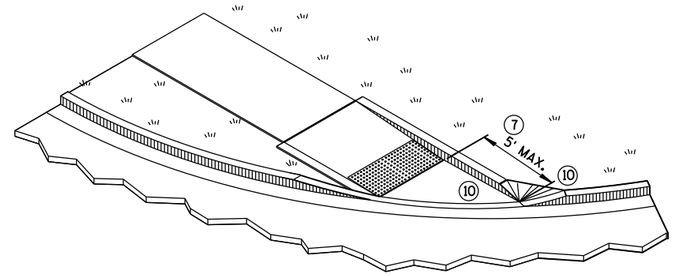
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

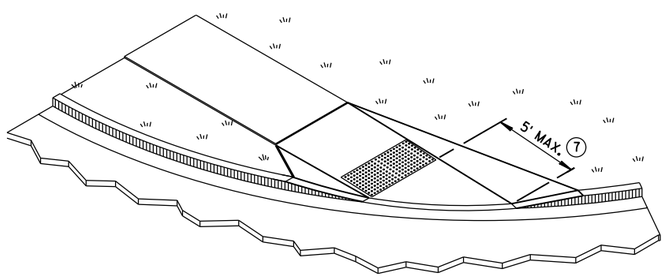
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



CURB RAMP TYPE 4B1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

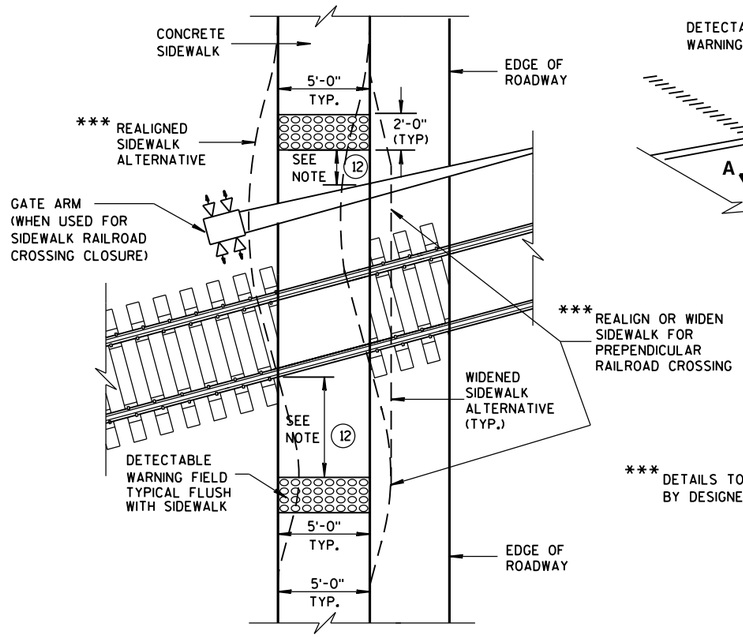
PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

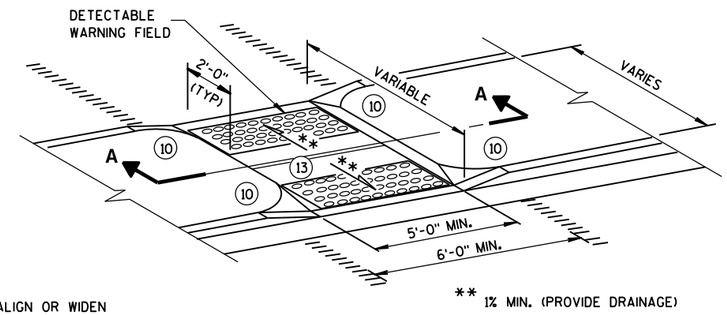
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S.D.D. 8 D 5-19d



TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING

*** DETAILS TO BE DETERMINED BY DESIGNER



** 1% MIN. (PROVIDE DRAINAGE)

MEDIAN ISLAND
NON-ELEVATED PEDESTRIAN CROSSING
TYPE 5

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

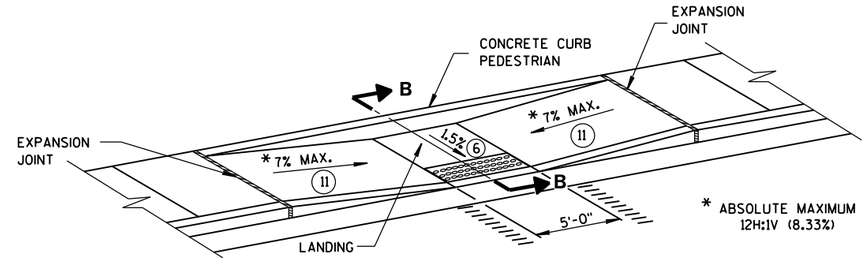
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

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

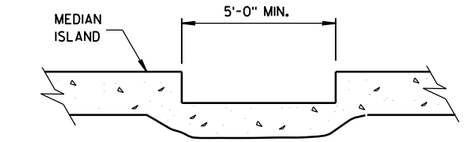
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

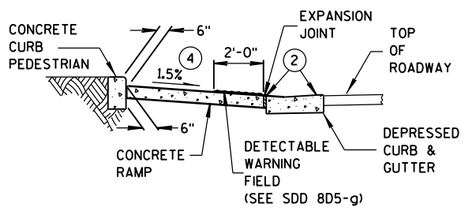
(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STREET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2-FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.



MID-BLOCK CROSSING
TYPE 7A

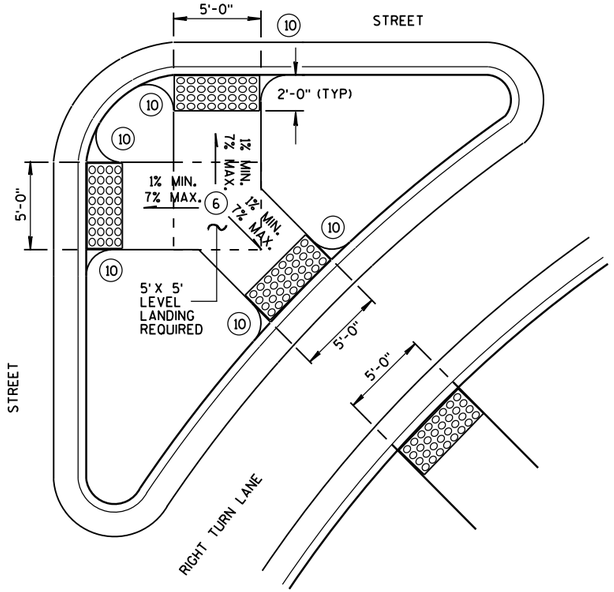


SECTION A-A

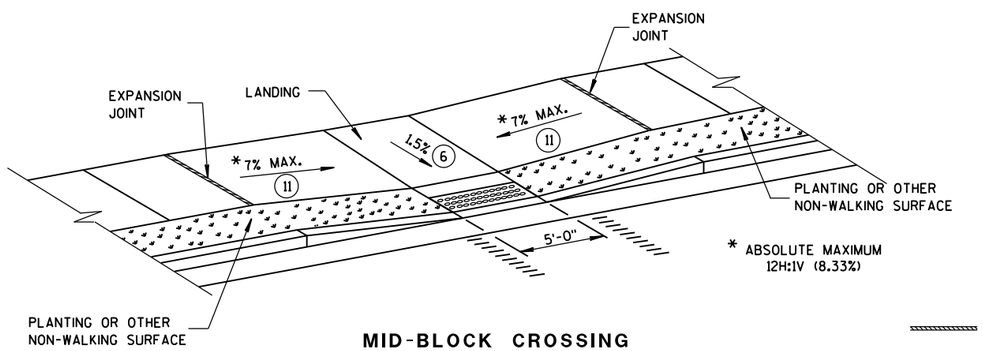


SECTION B-B

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

LEGEND

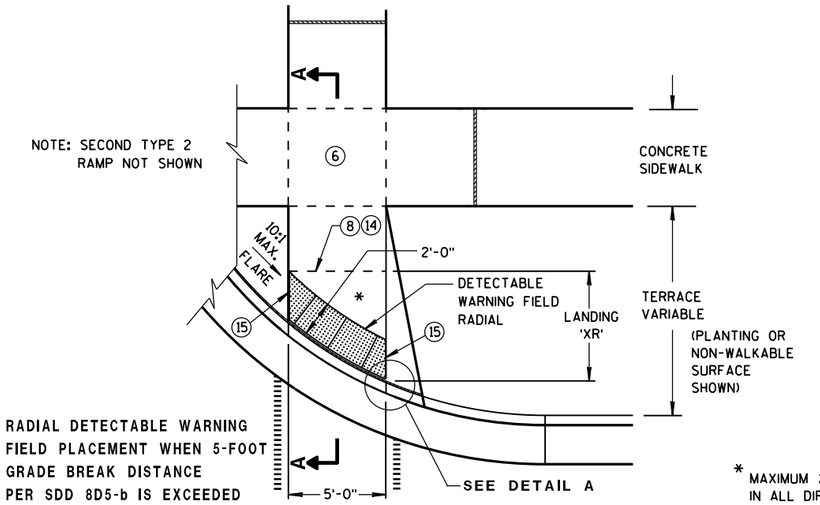
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

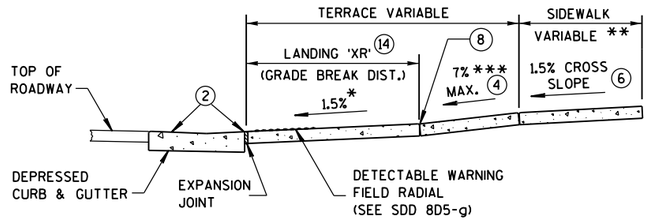
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S.D.D. 8 D 5-19e



TYPE 2 RAMP
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION A-A

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS (DWFs) THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

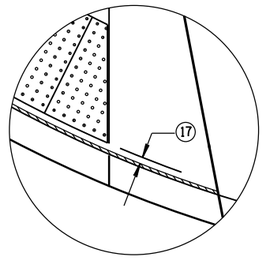
(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION 'XR') REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

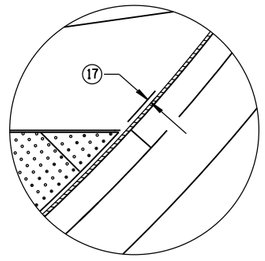
(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1'X 2' RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2'-0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

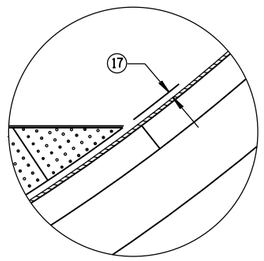
(17) A MAXIMUM 3-INCH CONCRETE BORDER WIDTH IS ALLOWABLE IN FRONT OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.



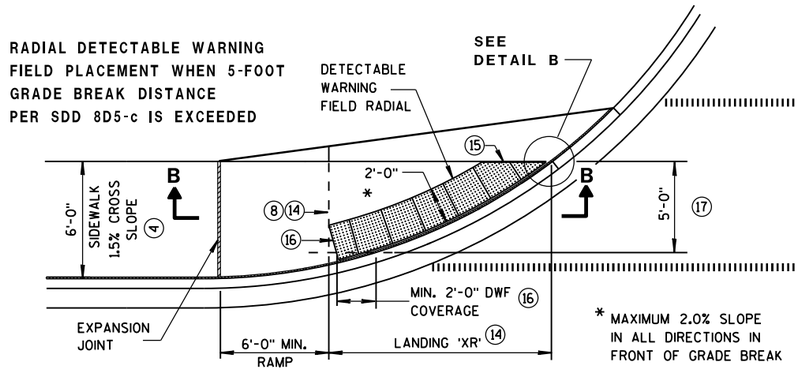
DETAIL A



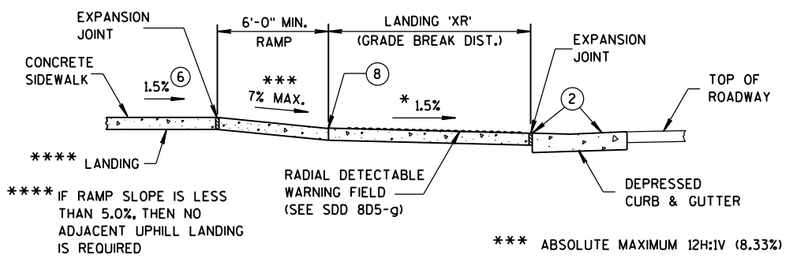
DETAIL C



DETAIL B



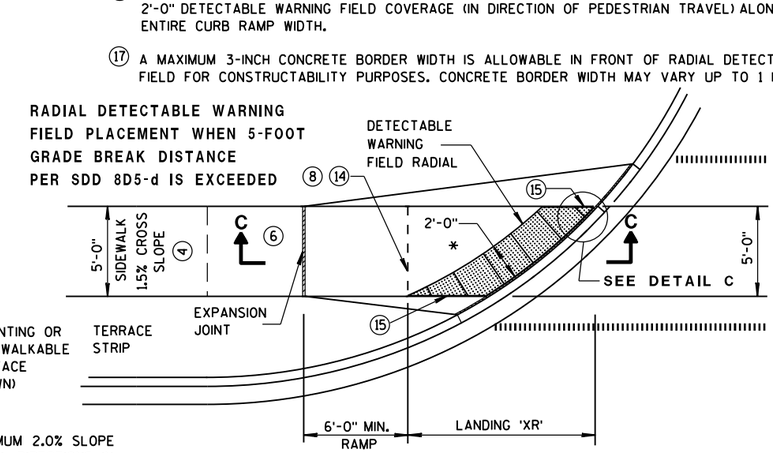
CURB RAMP TYPE 4A1
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



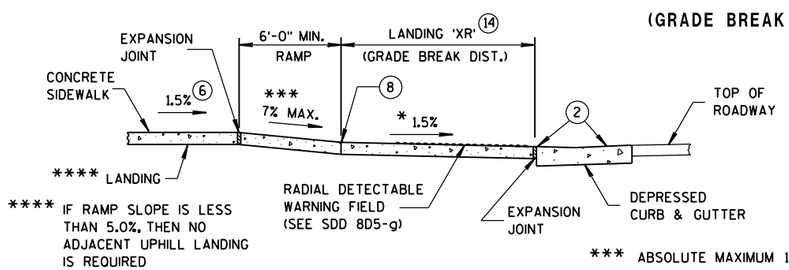
**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION B-B FOR TYPE 4A1



CURB RAMP TYPE 4B1
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION C-C FOR TYPE 4B1

CURB RAMPS
RADIAL DETECTABLE WARNING FIELD APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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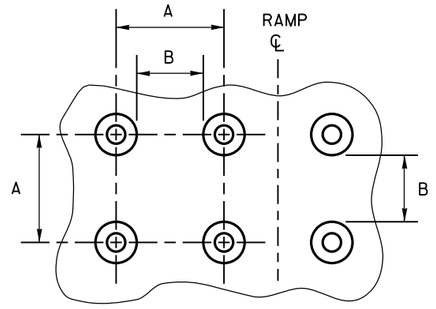
S.D.D. 8 D 5-19f

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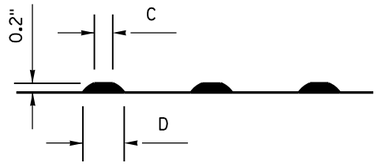
S.D.D. 8 D 5-19f

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES

DETECTABLE WARNING PATTERN DETAIL

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

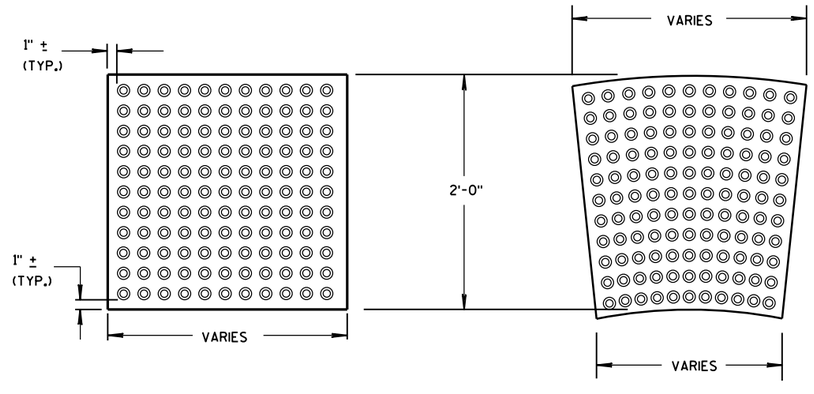
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGES IN COMBINATION WITH SQUARE PANELS ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

⑮ FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

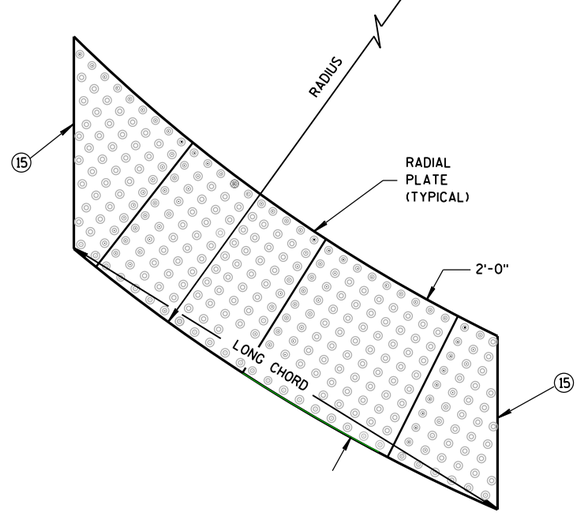


RECTANGULAR PLATES

RADIAL PLATES

DETECTABLE WARNING FIELDS (TYPICAL)

PLAN VIEW



RADIAL DETECTABLE WARNING FIELD ATTRIBUTES

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERV
FHWA

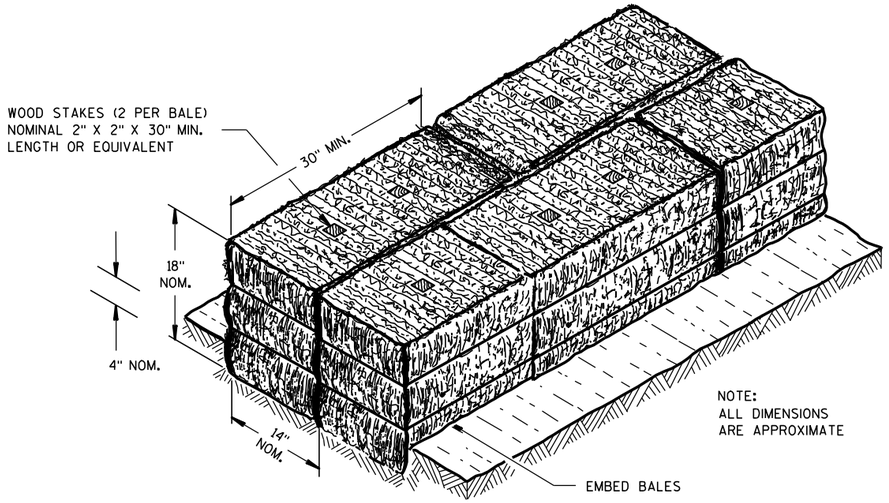
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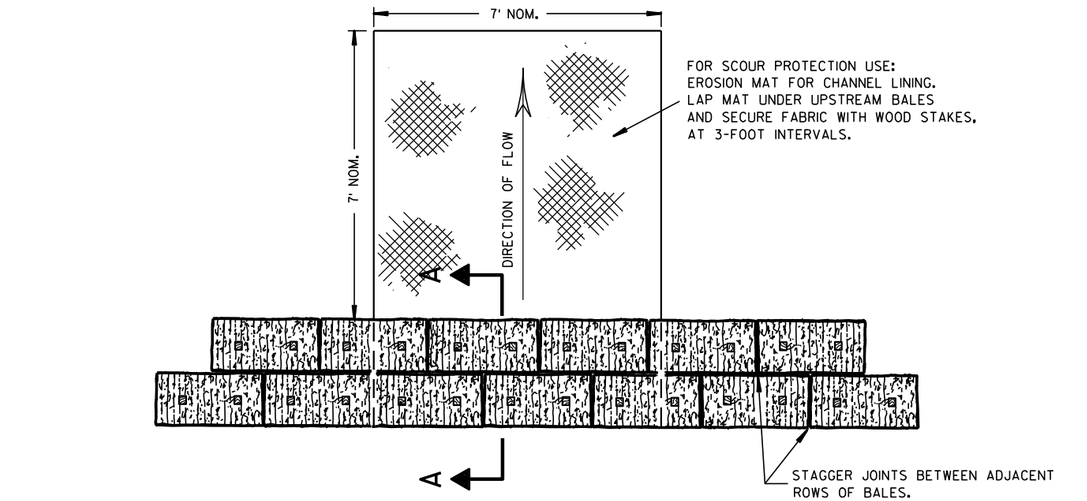
S.D.D. 8 D 5-19g

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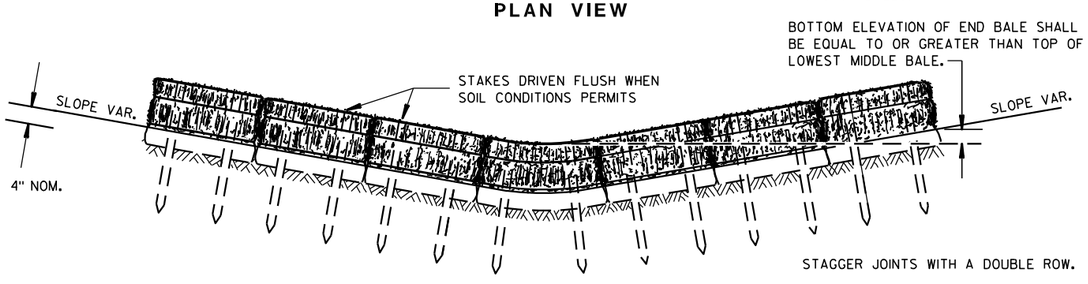
S.D.D. 8 D 5-19g



SECTION A-A



PLAN VIEW



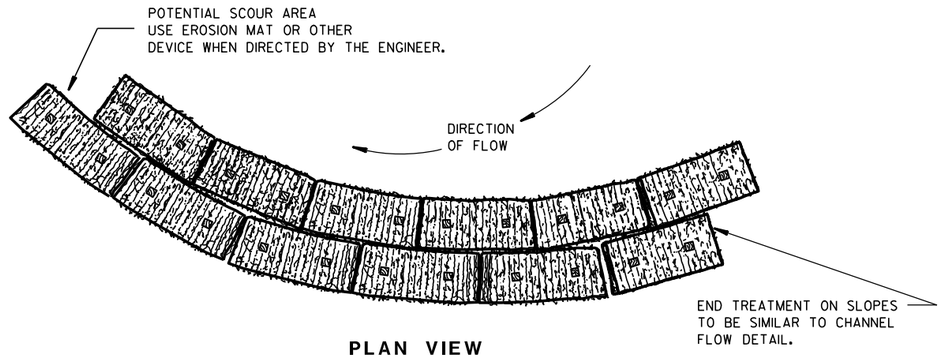
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

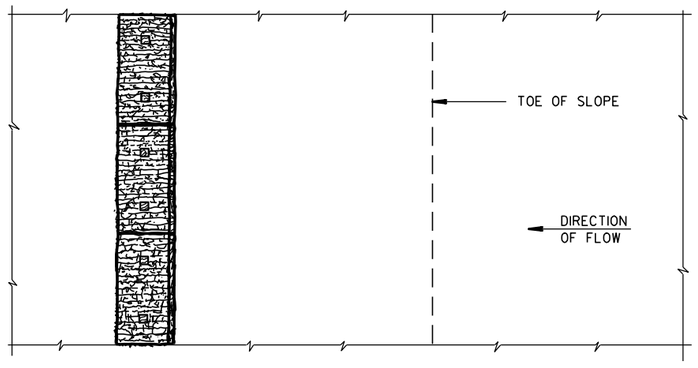
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

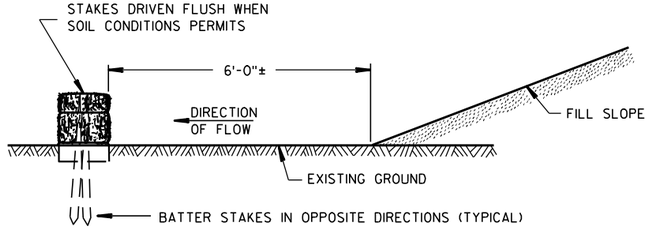


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

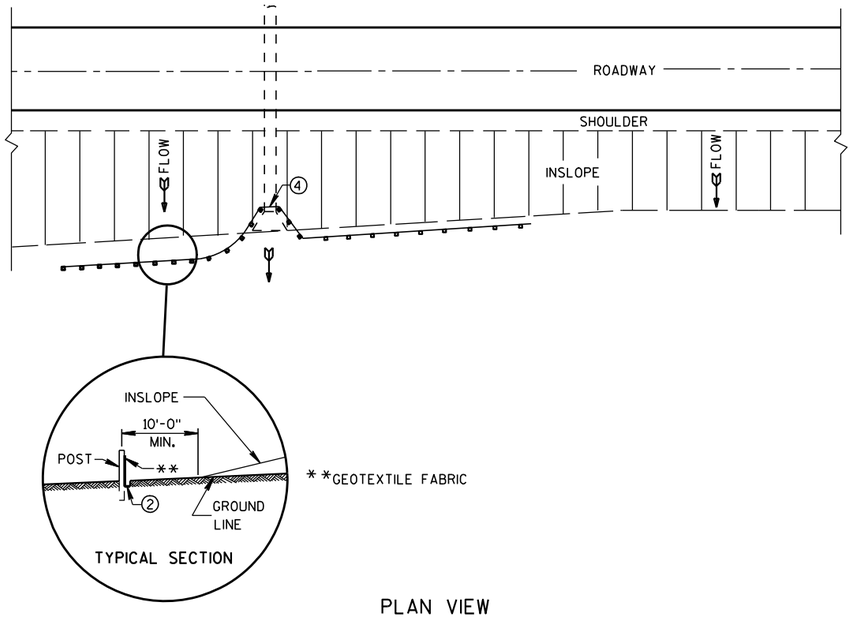
APPROVED

6/04/02 DATE — /S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

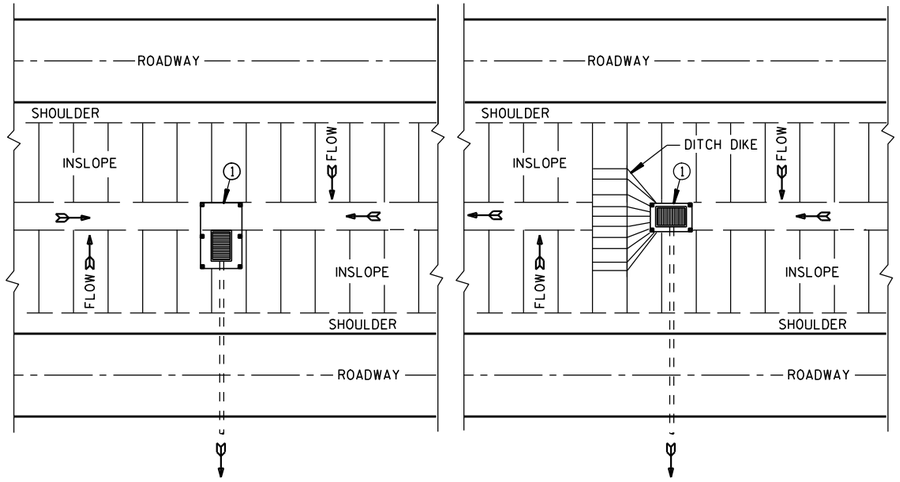
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



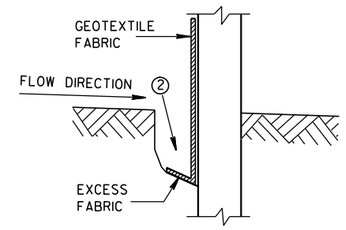
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

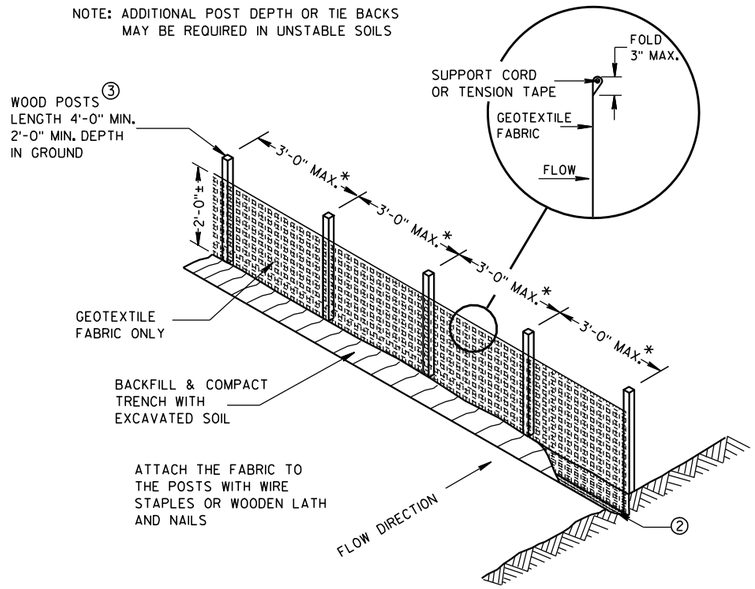
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

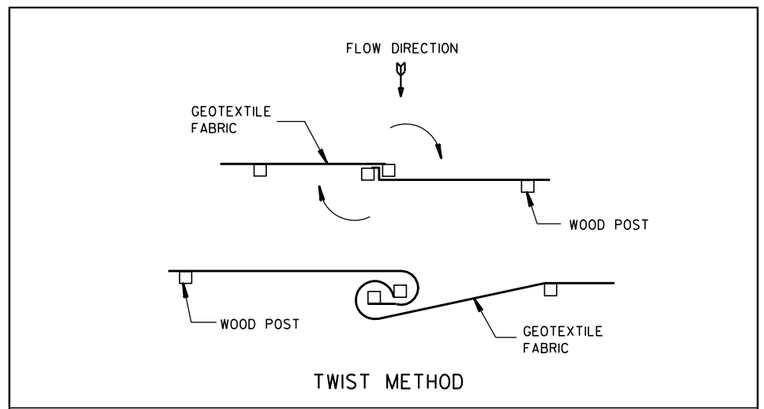
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



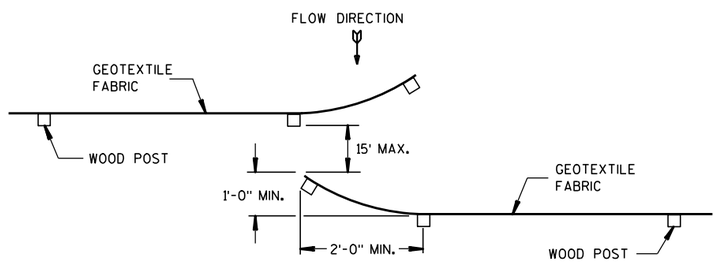
TRENCH DETAIL



SILT FENCE

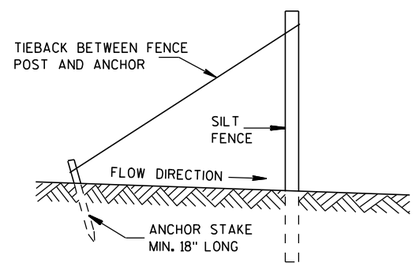


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

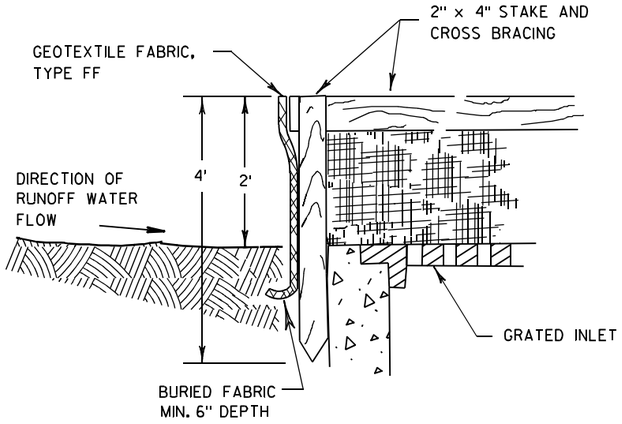
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

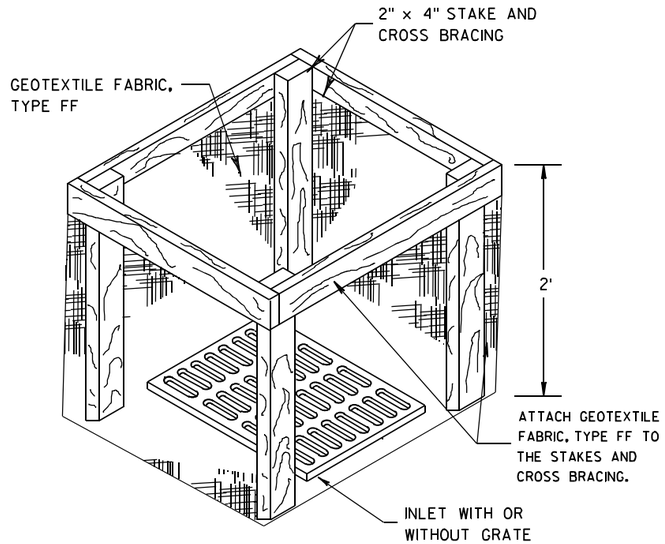
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S.D.D. 8 E 9-6

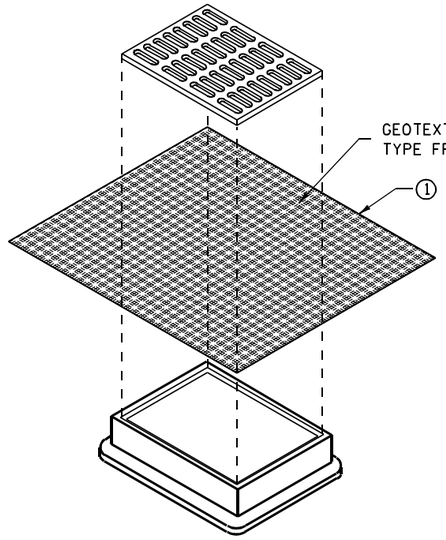
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S.D.D. 8 E 9-6



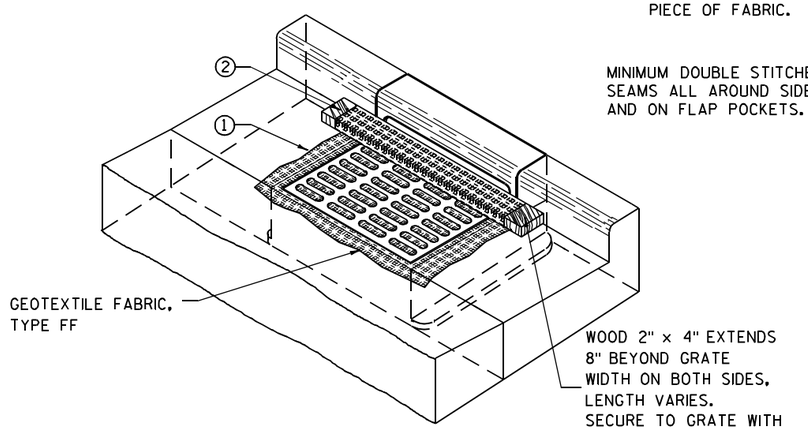


INLET PROTECTION, TYPE A

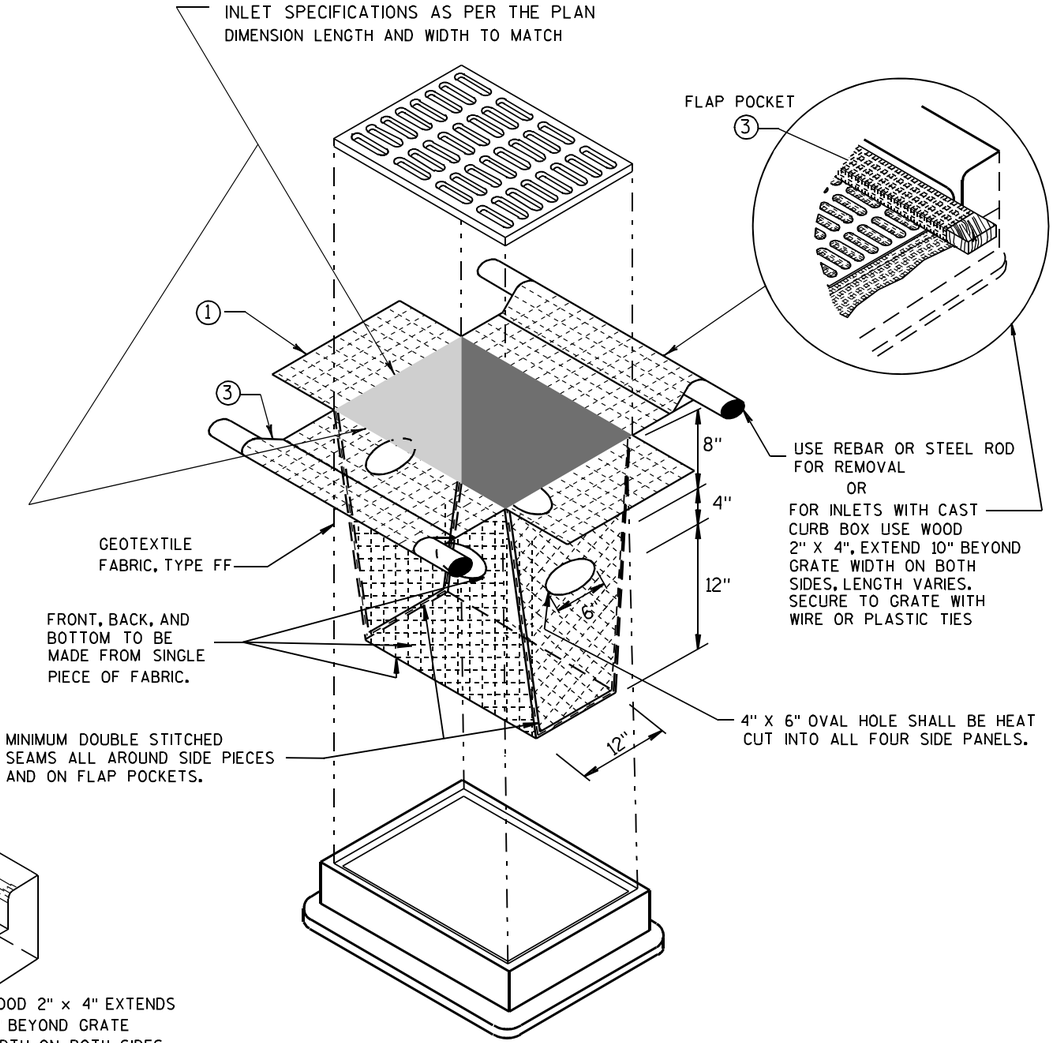


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE 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

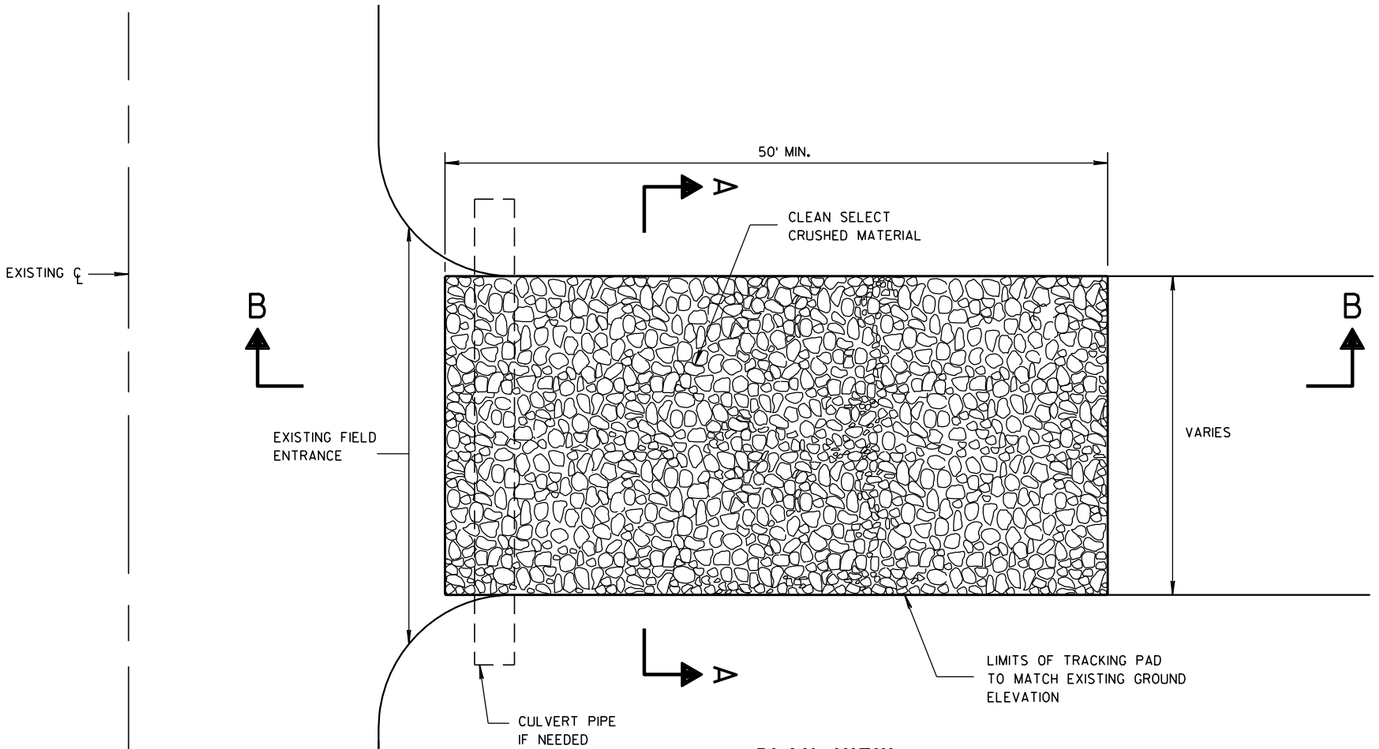
FHWA

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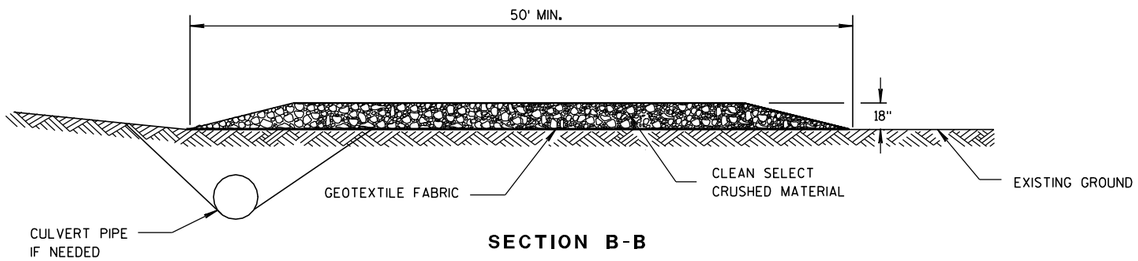
S.D.D. 8 E 10-2

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.

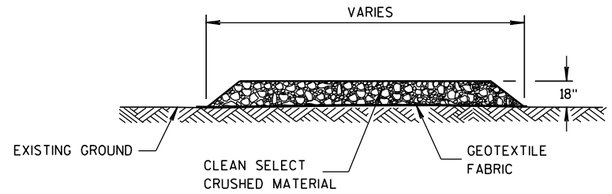
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

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

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 8 E 14-1

METAL APRON ENDWALLS

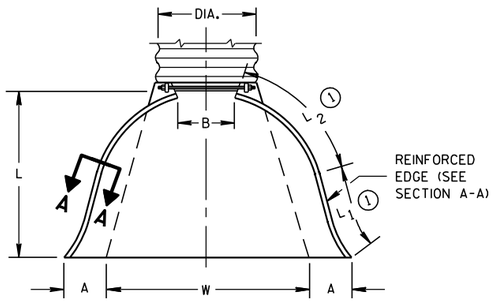
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	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

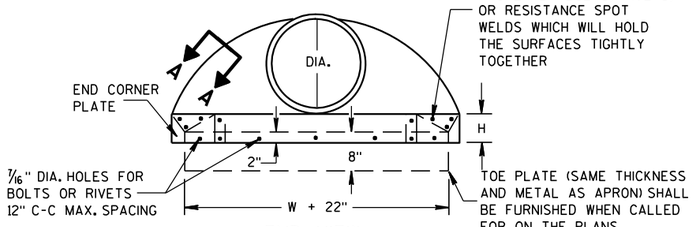
REINFORCED CONCRETE APRON ENDWALLS

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

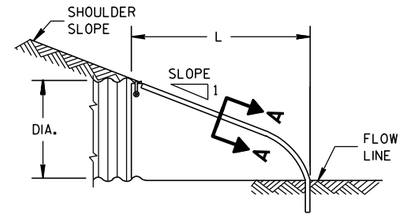
* MINIMUM
** MAXIMUM



PLAN VIEW

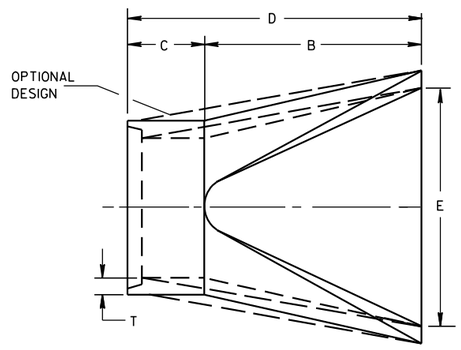


END VIEW

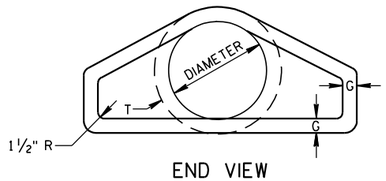


SIDE ELEVATION

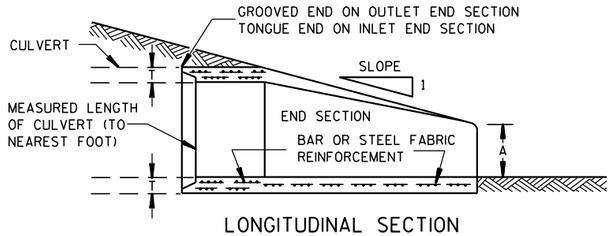
METAL ENDWALLS



PLAN

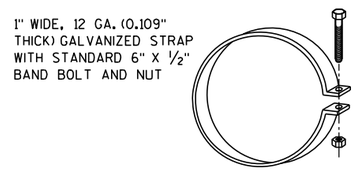


END VIEW



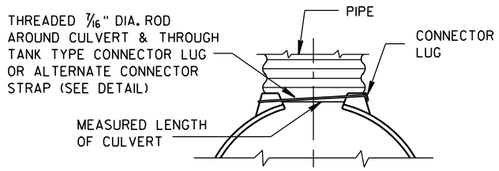
LONGITUDINAL SECTION

CONCRETE ENDWALLS

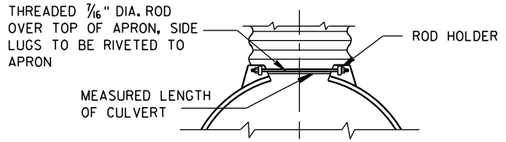


ALTERNATE FOR TYPE 1 CONNECTION

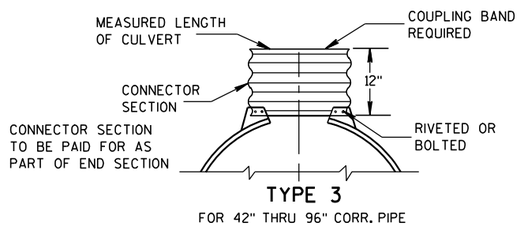
END SECTION CONNECTOR STRAP



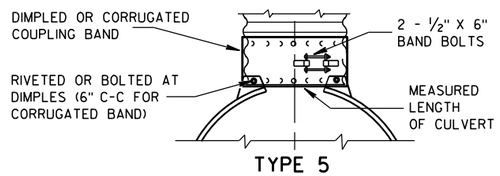
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

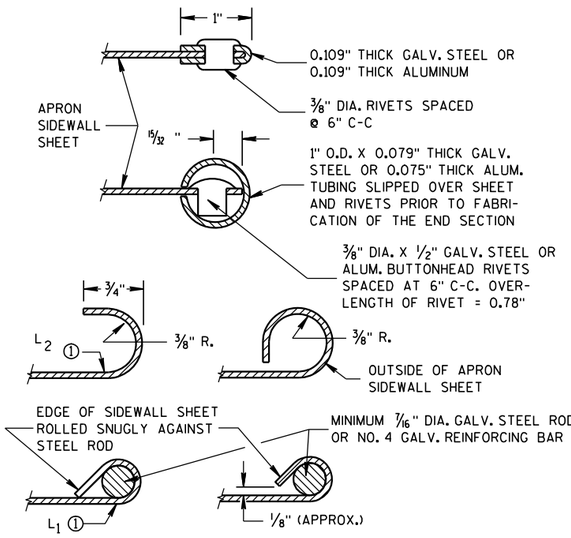
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

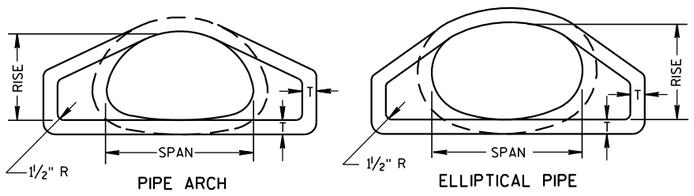
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

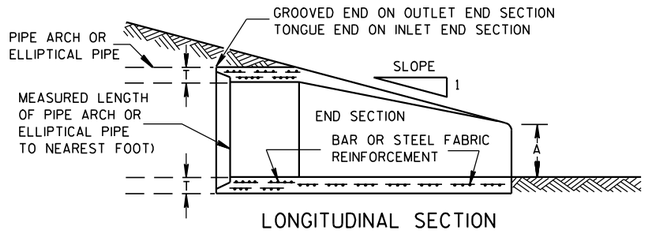
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

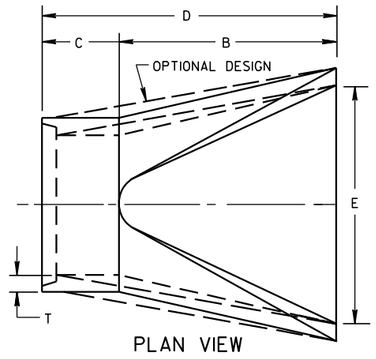
6
S.D.D. 8 F 1-11



END VIEW

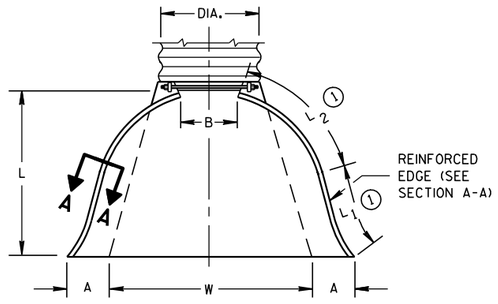


LONGITUDINAL SECTION

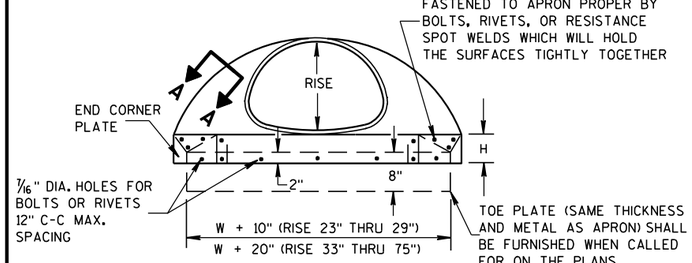


PLAN VIEW

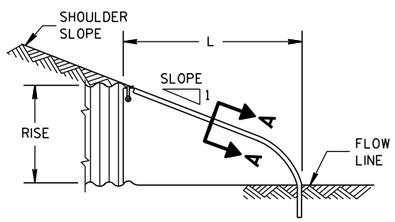
CONCRETE ENDWALLS



PLAN VIEW

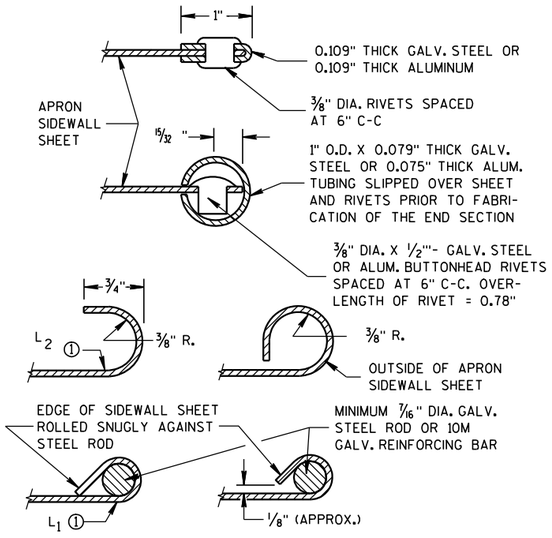


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

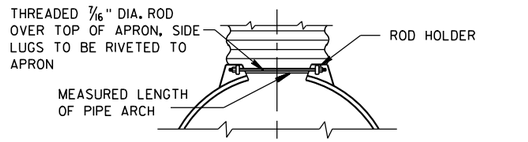
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

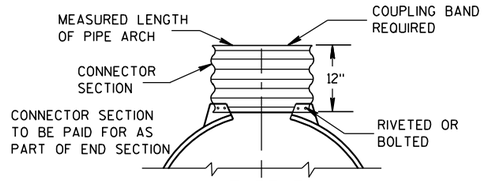
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



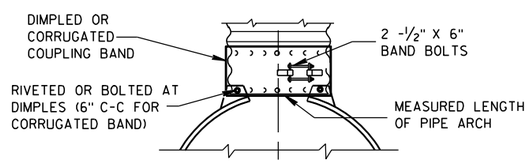
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

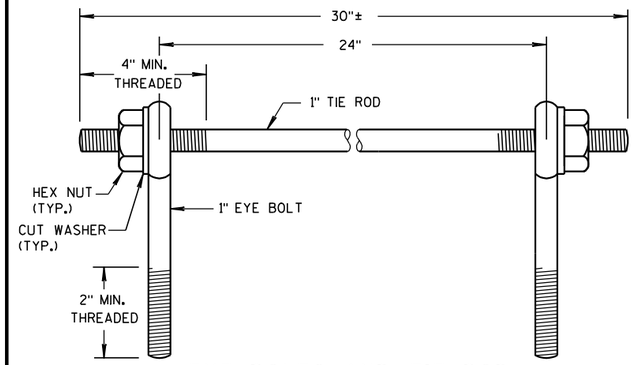
FHWA

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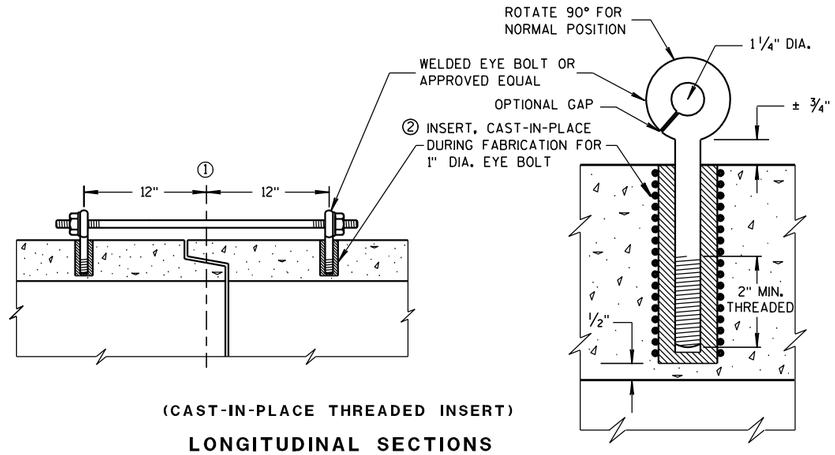
S.D.D. 8 F 2-1

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S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

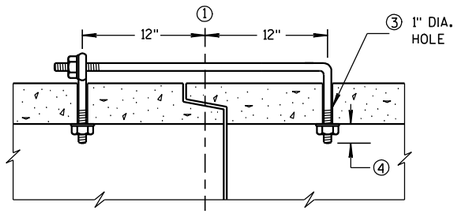
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

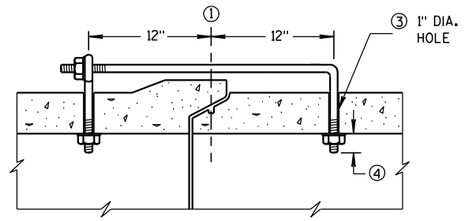
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

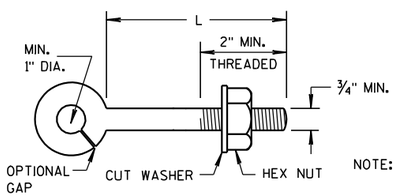


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

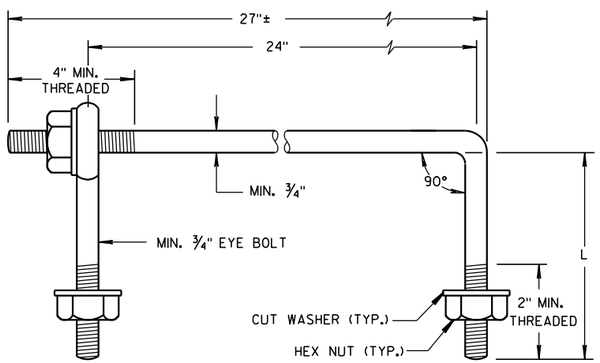
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

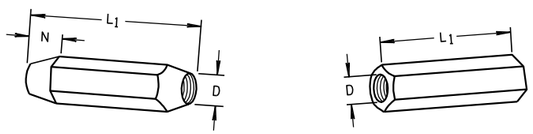
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

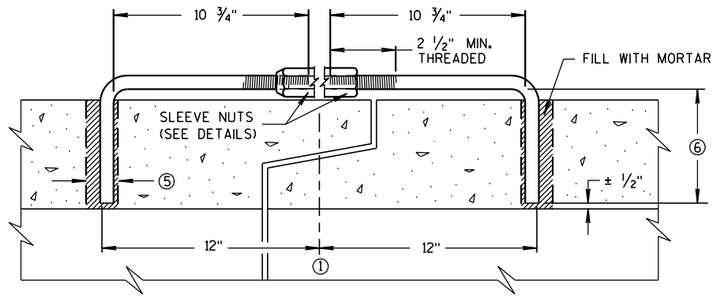
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

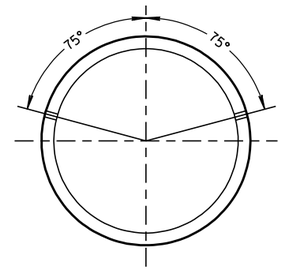
SLEEVE NUTS



LONGITUDINAL SECTION

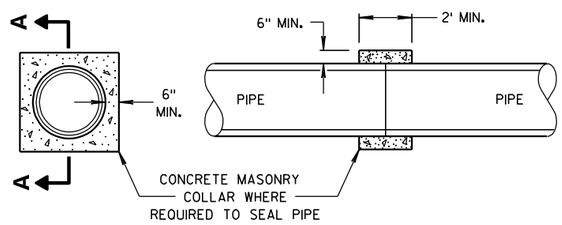
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

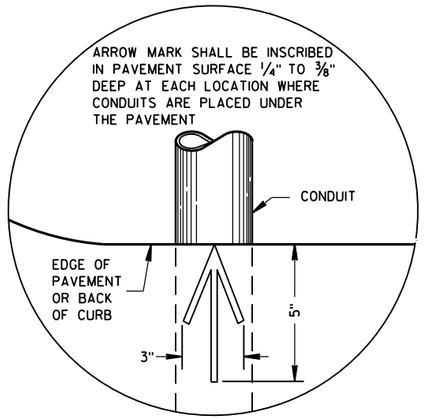
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
364
FHWA

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S.D.D. 8 F 4-7

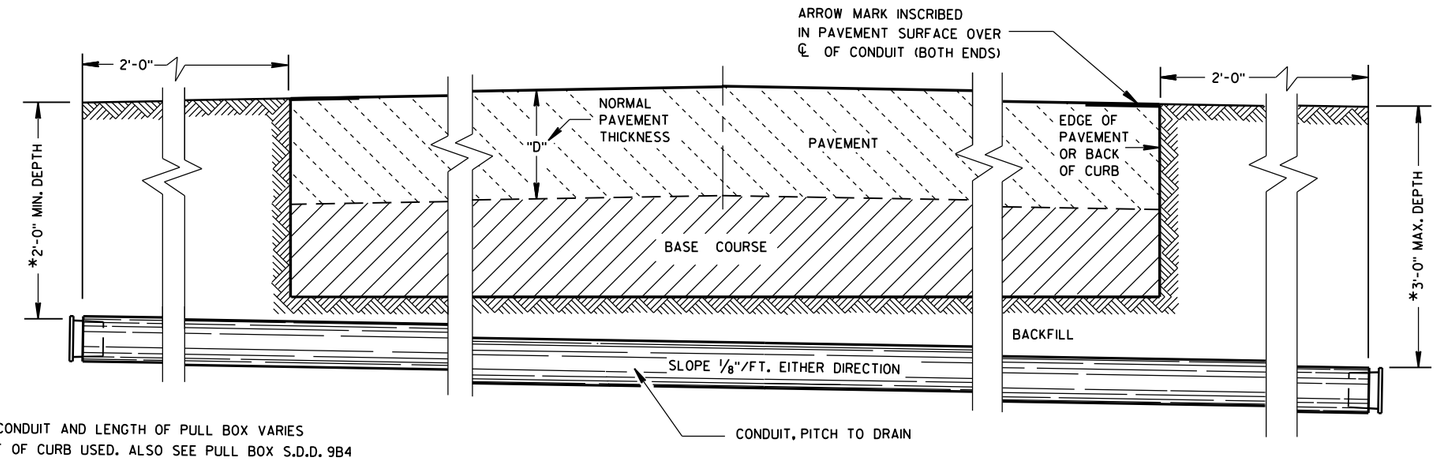
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S.D.D. 8 F 4-7



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

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

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

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

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 365
FHWA

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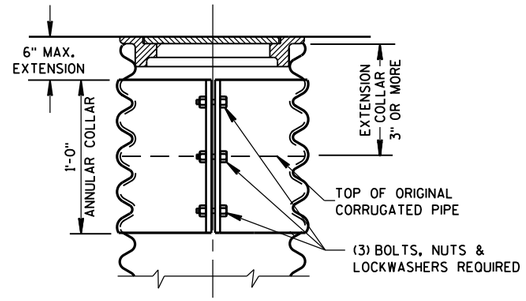
S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

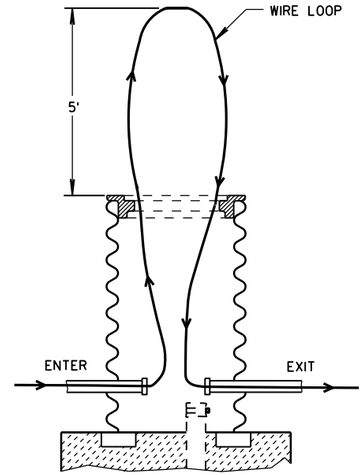
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

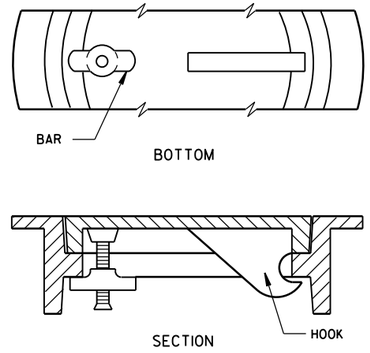
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

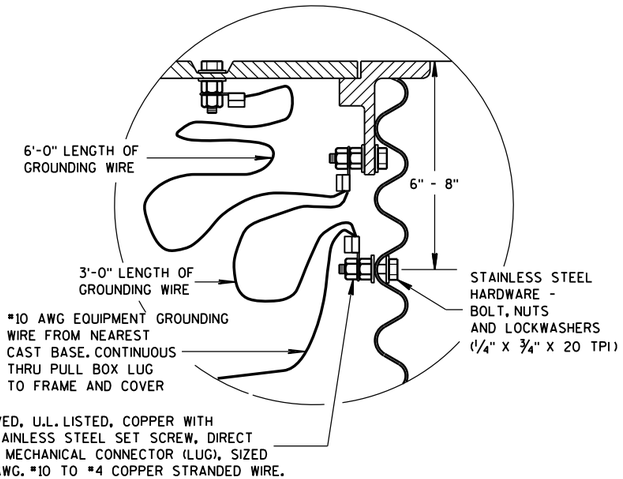


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX

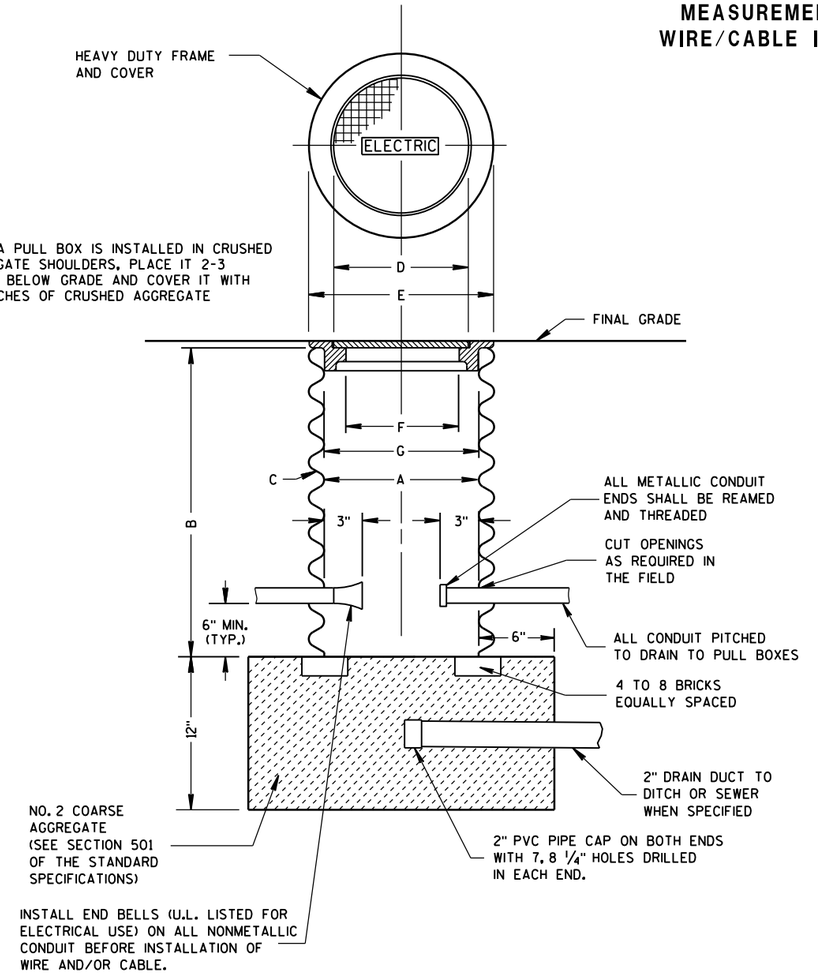


ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX

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.

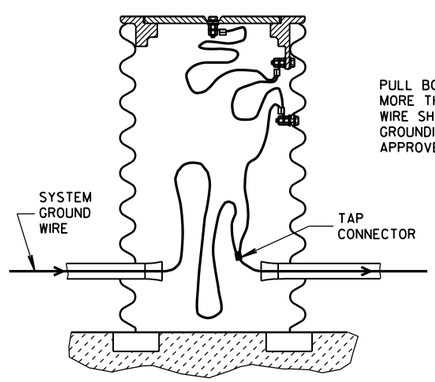
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

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

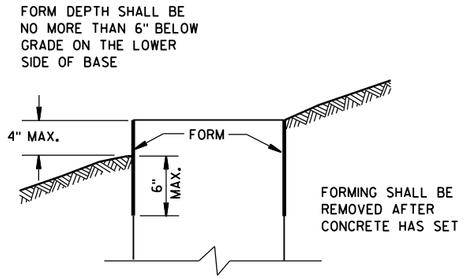
PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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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.

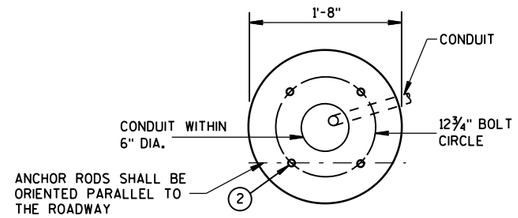
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

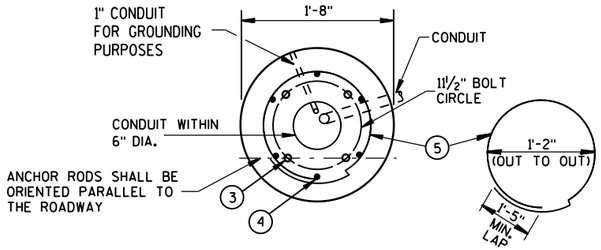
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

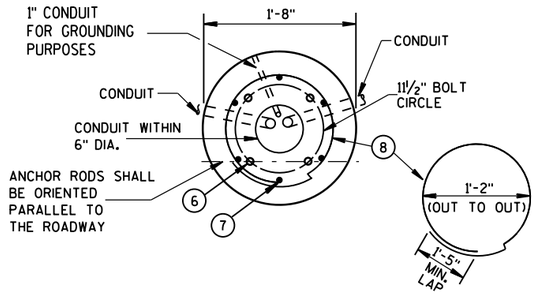
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.

(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

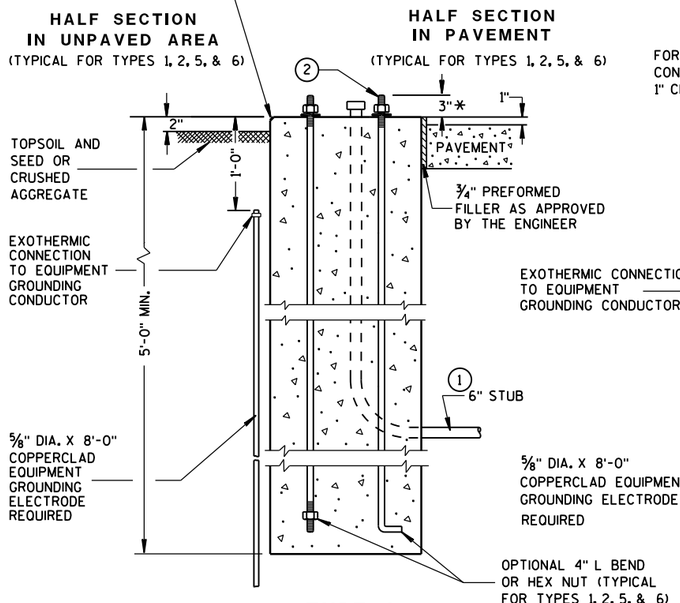




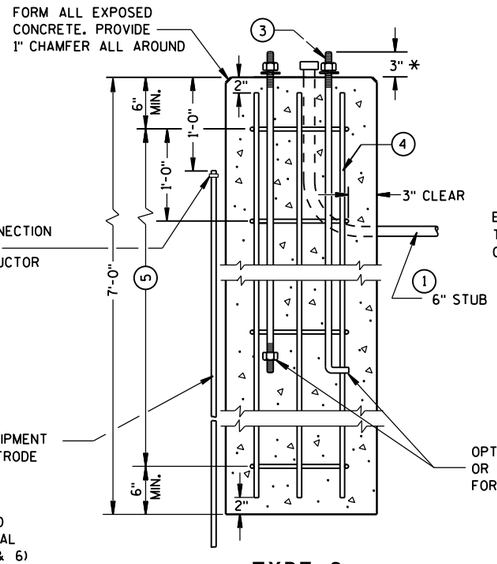


HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5, & 6)

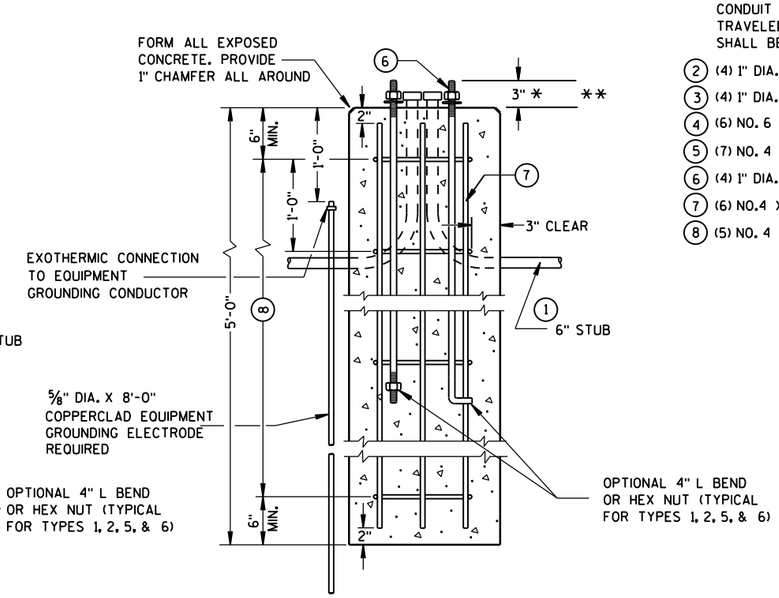
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5, & 6)



TYPE 1



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 367
FHWA

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S.D.D. 9 C 2-7

GENERAL NOTES

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

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

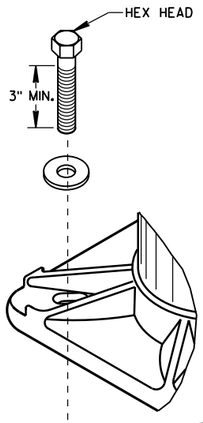
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

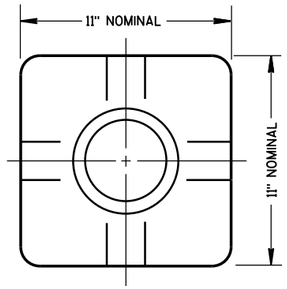
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

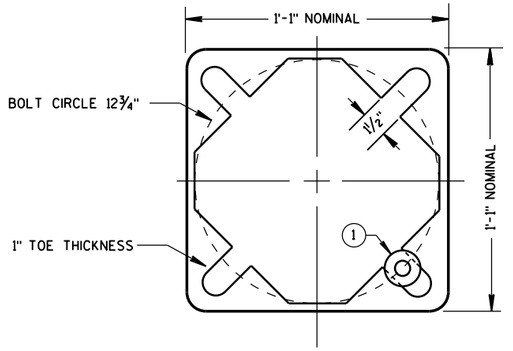
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

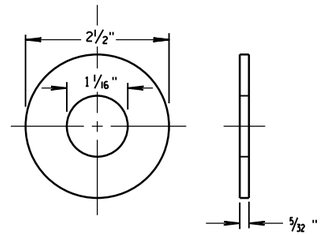




TOP VIEW
(PEDESTAL BASE)

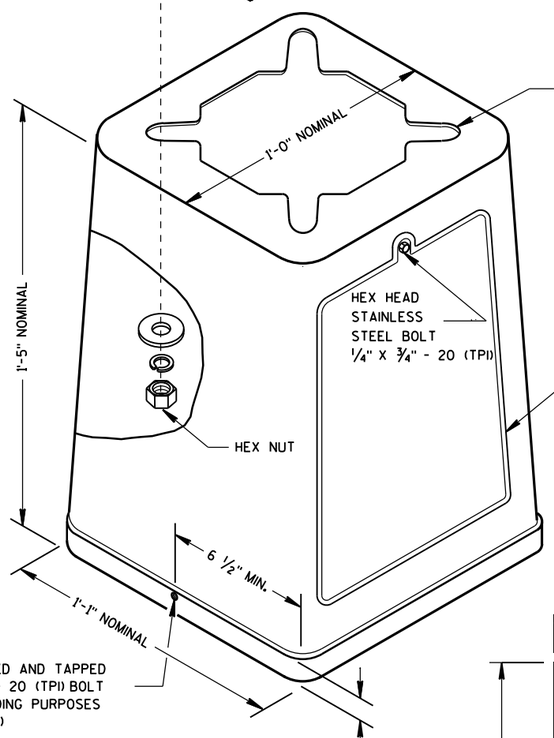


BOTTOM VIEW
(PEDESTAL BASE)

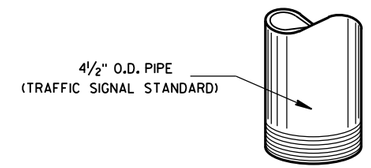


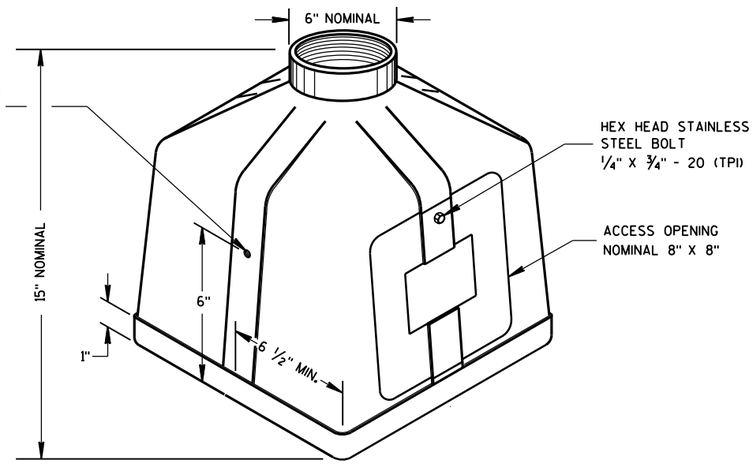
ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)



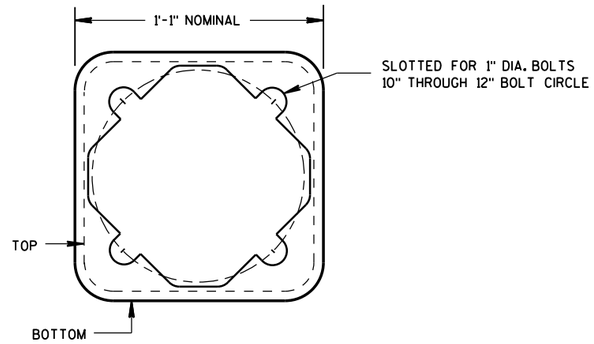
ISOMETRIC VIEW



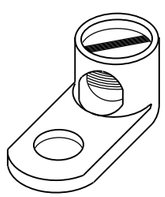


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

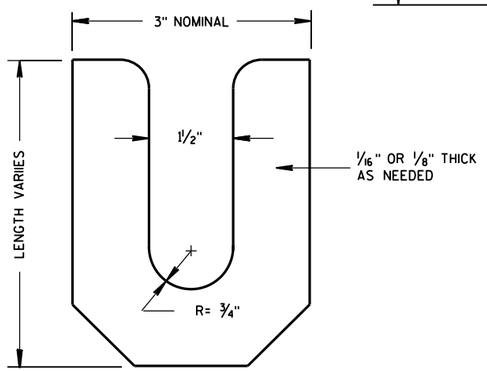


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

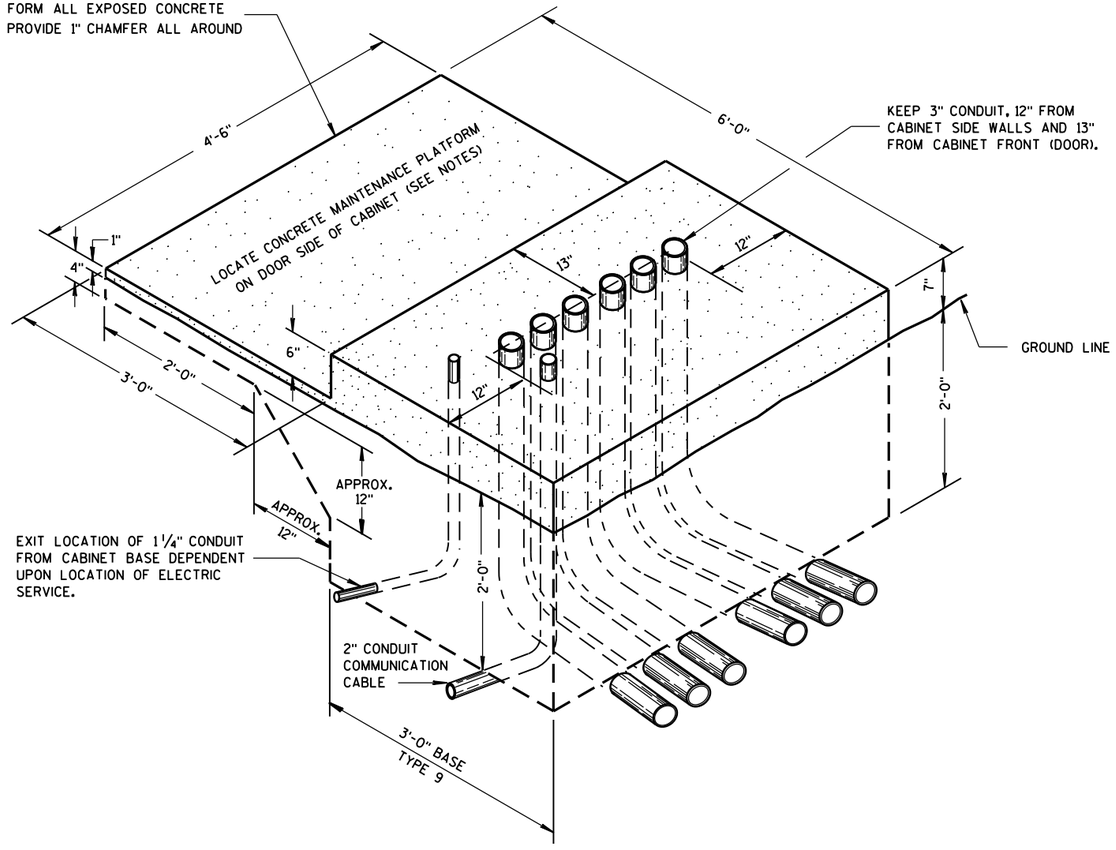
TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
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Sept. 2014 — DATE
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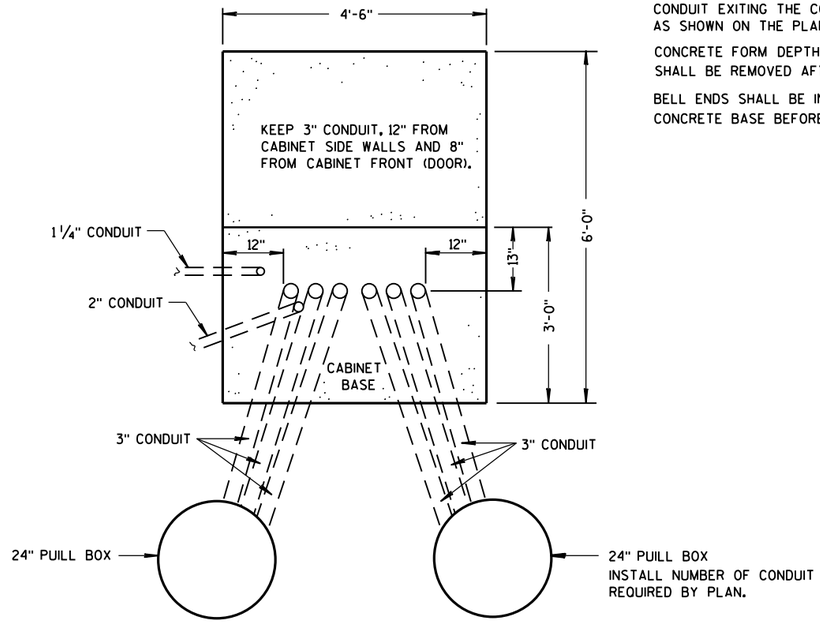
S.D.D. 9 C 3-4



ISOMETRIC VIEW

TYPE 9, SPECIAL

(C.Y. CONCRETE = APPROX. 1.56)



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

GENERAL NOTES

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

INSTALL FOUR ½ INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS WITH A PULLOUT STRENGTH OF 9,000 LBS. TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

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

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

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

CONDUIT EXITING THE CONCRETE BASE (SIX THREE INCH) SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

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

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 369
FHWA

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

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

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

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

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

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL END INSTALLED. ALL CONDUIT SHALL BE SLOPED TO PULL BOX.

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

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

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

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

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

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

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

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

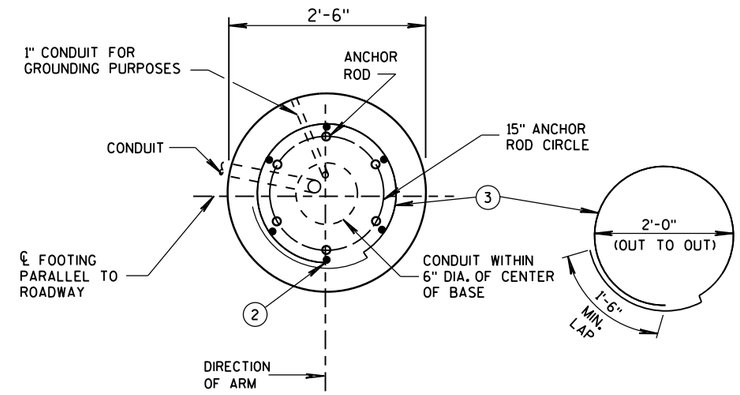
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

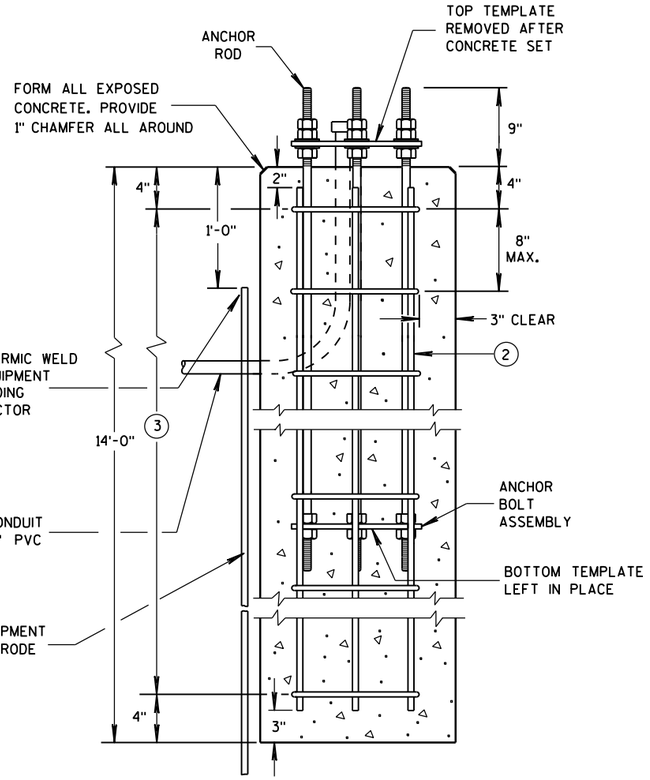
(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES. (GREATER THAN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

(2) (6) NO. 6 X 13'-7" BAR STEEL REINFORCEMENT.

(3) (21) NO. 5 X 7'-10" BAR STEEL REINFORCEMENT @ 8" MAX. C-C.

CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 641.2.2.3 OF THE STANDARD SPECIFICATION)	fy=55,000 p.s.i.
TEMPLATES, ASTM, A709 GRADE 36	fy=36,000 p.s.i.

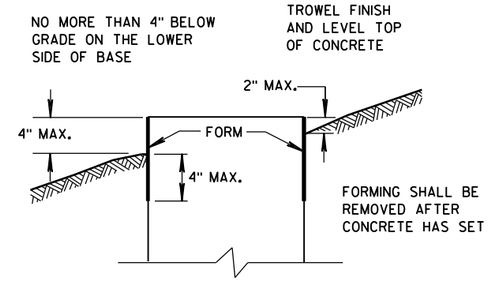




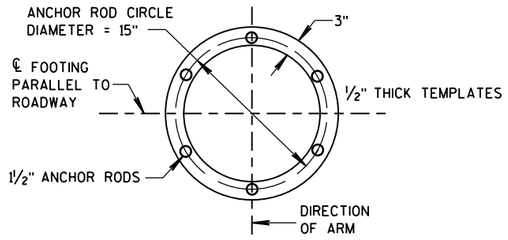
CONCRETE BASE TYPE 10

(FOR TYPE 9 & 10 & OVER HEIGHT (OH) POLES)

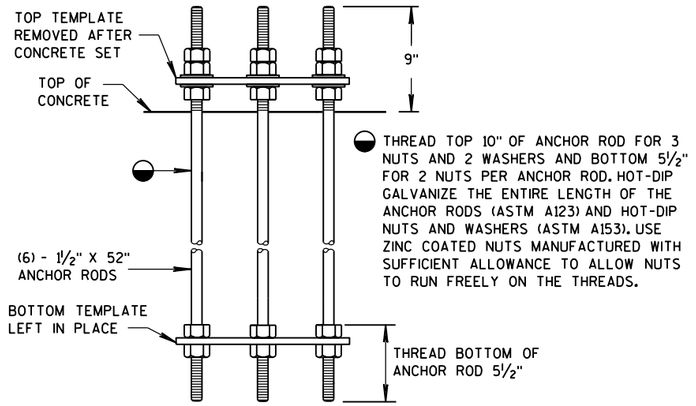
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.



FORMING DETAIL



TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 10 ANCHOR ASSEMBLY

QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	2.5
LBS. OF HOOP BAR STEEL	172
LBS. OF VERTICAL BAR STEEL	122

CONCRETE BASE TYPE 10

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

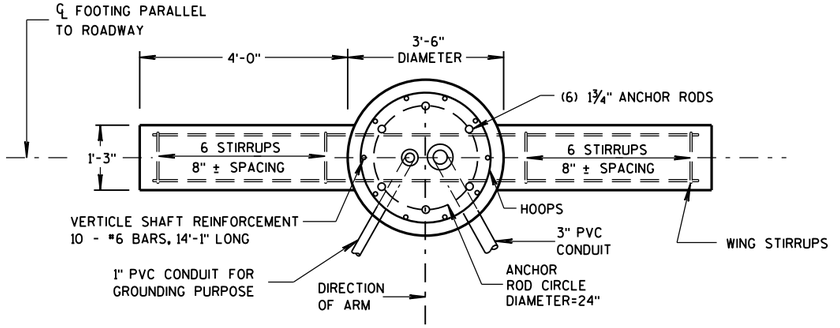
APPROVED
May 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

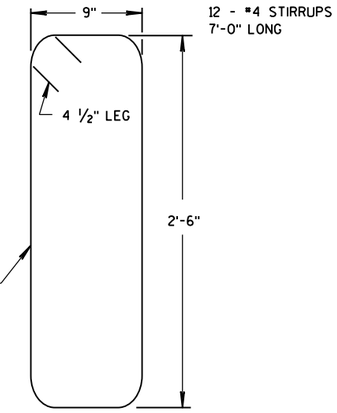
S.D.D. 9 C 11-10

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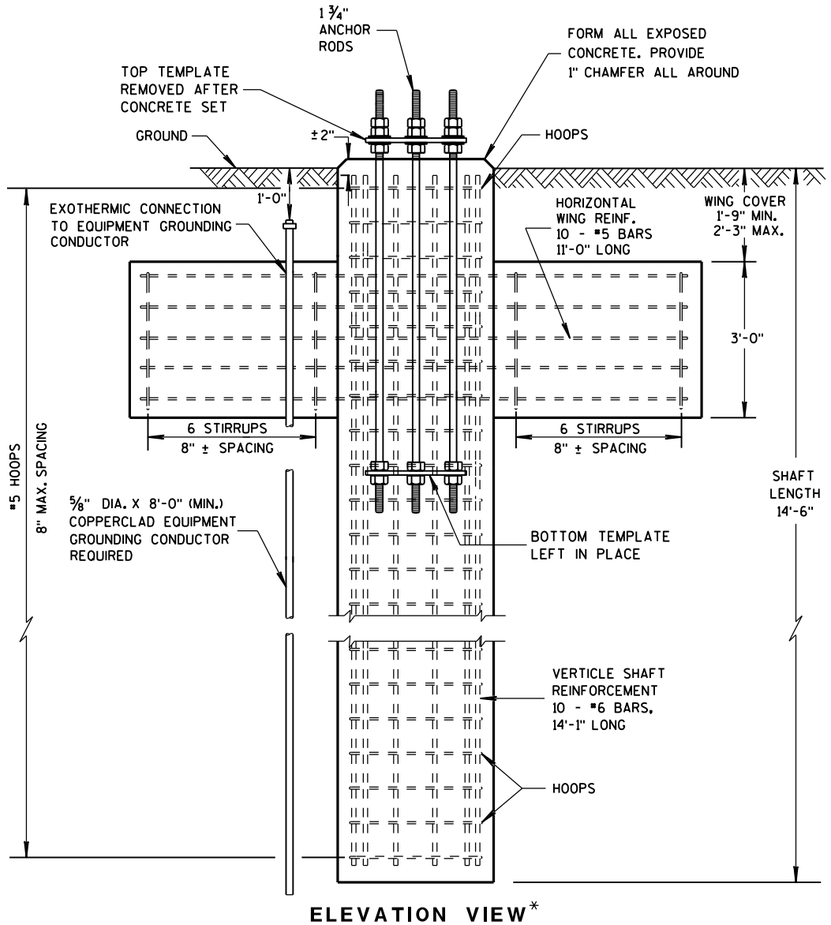
S.D.D. 9 C 11-10



PLAN VIEW

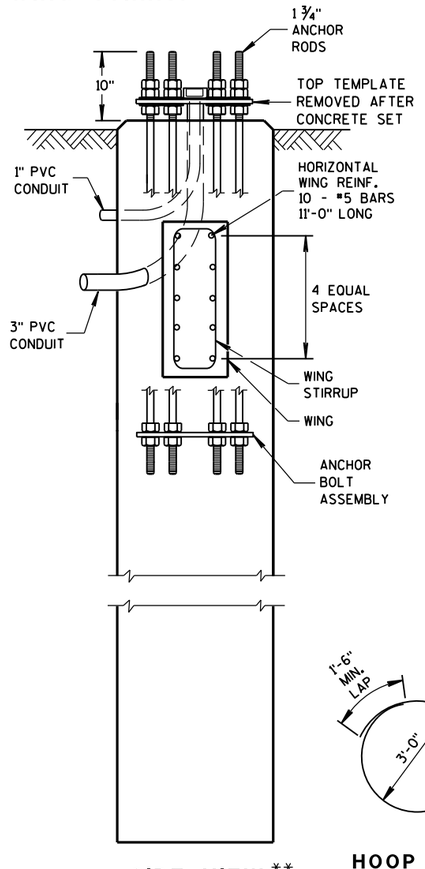


WING STIRRUP



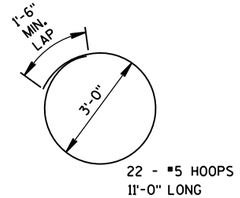
ELEVATION VIEW*

* CONDUITS ARE NOT SHOWN ON THIS VIEW FOR CLARITY



SIDE VIEW**

** HOOPS AND VERTICAL SHAFT REINFORCEMENT NOT SHOWN ON THIS VIEW FOR CLARITY



HOOP DETAIL

GENERAL NOTES

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

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR ROD PROJECTION ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF THE UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

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

BASES (SHAFT), BELOW THE WING, SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUNG THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

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

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

CONDUIT HEIGHT ABOVE CONCRETE BASE SHALL BE 4½" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

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

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

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTOR FITTINGS, UL LISTED FOR ELECTRICAL USE, SHALL BE USED.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1-INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4-FOOT COIL OF WIRE ABOVE THE CONCRETE BASE, THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

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

THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVEL WAY SHALL BE 24-INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18-INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36-INCHES, (GREATER THAN 36-INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH THE WRITTEN APPROVAL OF THE ENGINEER.

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

CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 641.2.2.3 OF THE STANDARD SPECIFICATIONS	fy=55,000 p.s.i.
TEMPLATES, ASTM A709 GRADE 36	fy=36,000 p.s.i.

(FOR TYPE 12 & 13 & OVER HEIGHT (OH) POLES)

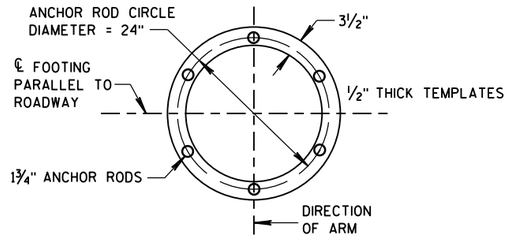
CONCRETE = 6.3 C.Y.
H.S. REINFORCEMENT = 635 LBS.

TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION.
SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.

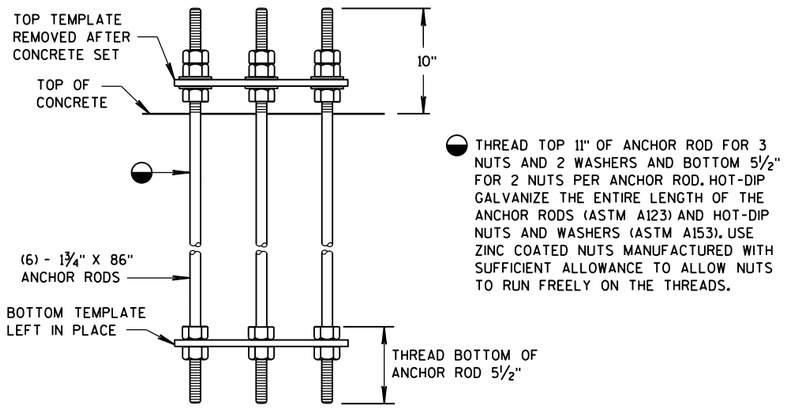
CONCRETE BASE TYPE 13

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6
S.D.D. 9 C 12-9a

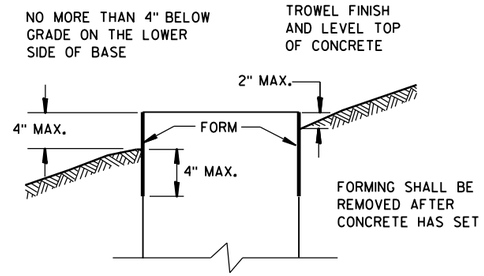


TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 13 ANCHOR ASSEMBLY



FORMING DETAIL

CONCRETE BASE TYPE 13	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2017 DATE FHWA	/S/ Ahmet Demirbilek STATE ELECTRICAL

6

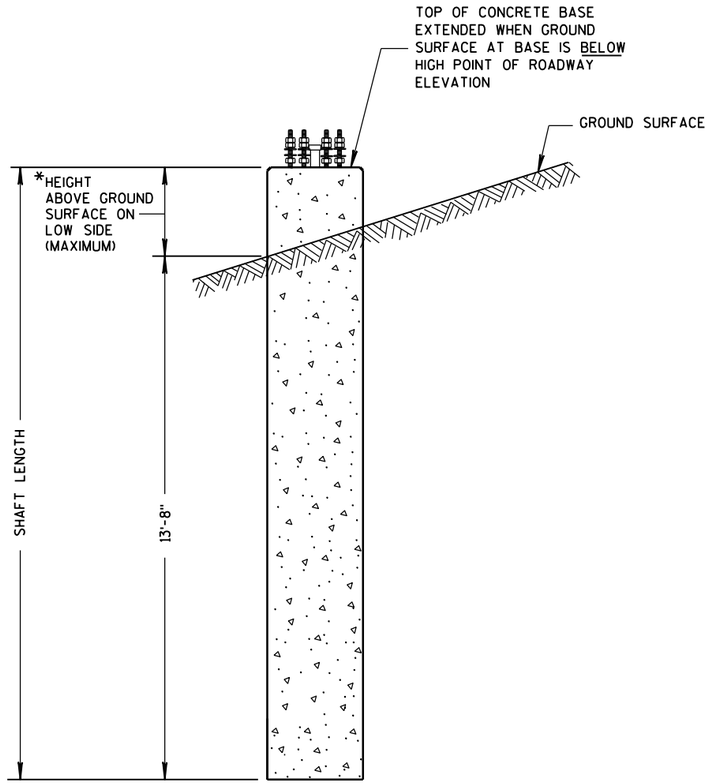
S.D.D. 9 C 12-9b

6

S.D.D. 9 C 12-9b

REINFORCEMENT AND CONCRETE QUANTITIES ADJUSTED FOR EXTENDED TYPE 10 CONCRETE BASE

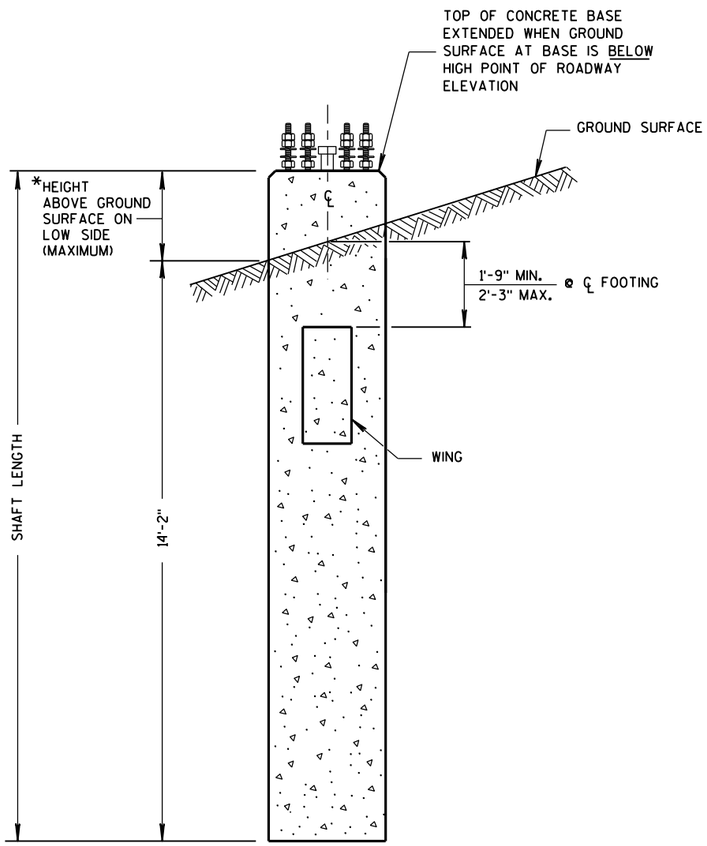
HEIGHT INCREASE REQUIRED	* HEIGHT ABOVE GROUND SURFACE ON LOW SIDE (MAXIMUM)	SHAFT LENGTH	LENGTH OF #6 VERTICAL REINF.	NO. OF #4 HOOPS	C.Y. OF CONCRETE	LBS. OF HOOP BAR STEEL	LBS. OF VERTICAL BAR STEEL
>0" TO 6"	10"	14'-6"	14'-1"	16	2.6	78	127
>6" TO 1'-0"	1'-4"	15'-0"	14'-7"	16	2.7	78	131
>1'-0" TO 1'-6"	1'-10"	15'-6"	15'-1"	17	2.8	83	136
>1'-6" TO 2'-0"	2'-4"	16'-0"	15'-7"	17	2.9	83	141



CONCRETE BASE TYPE 10 (EXTENDED)

REINFORCEMENT AND CONCRETE QUANTITIES ADJUSTED FOR EXTENDED TYPE 13 CONCRETE BASE

HEIGHT INCREASE REQUIRED	* HEIGHT ABOVE GROUND SURFACE ON LOW SIDE (MAXIMUM)	SHAFT LENGTH	LENGTH OF #6 VERTICAL REINF.	NO. OF #4 HOOPS	C.Y. OF CONCRETE	LBS. OF H.S. BAR STEEL
>0" TO 6"	10"	15'-0"	14'-7"	16	6.5	447
>6" TO 1'-0"	1'-4"	15'-6"	15'-1"	16	6.6	454
>1'-0" TO 1'-6"	1'-10"	16'-0"	15'-7"	17	6.8	469
>1'-6" TO 2'-0"	2'-4"	16'-6"	16'-1"	17	7.0	476



CONCRETE BASE TYPE 13 (EXTENDED)

CONCRETE BASE
TYPE 10 & TYPE 13 EXTENSION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

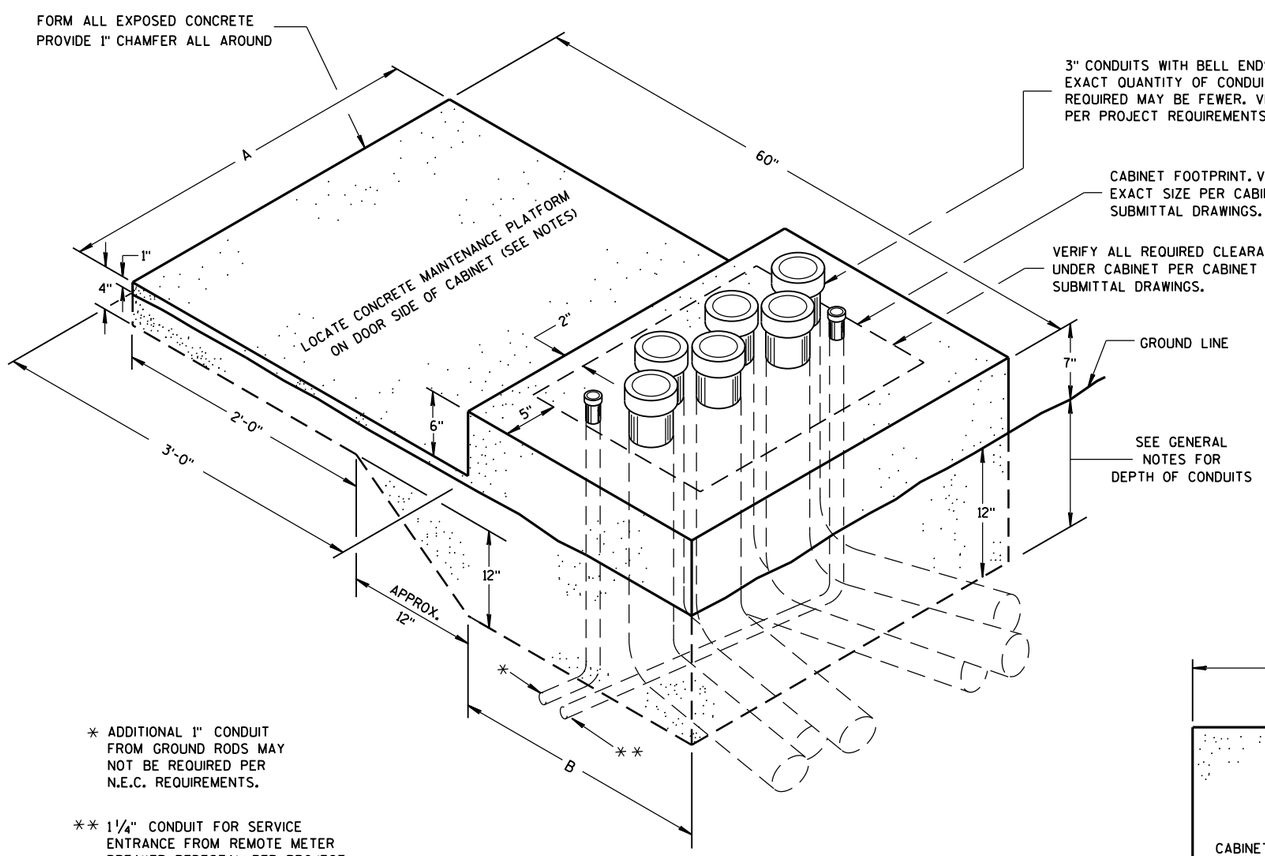
APPROVED
11-26-2013 DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL
FHWA

6

S.D.D. 9 C 13-2

6

S.D.D. 9 C 13-2



* ADDITIONAL 1" CONDUIT FROM GROUND RODS MAY NOT BE REQUIRED PER N.E.C. REQUIREMENTS.

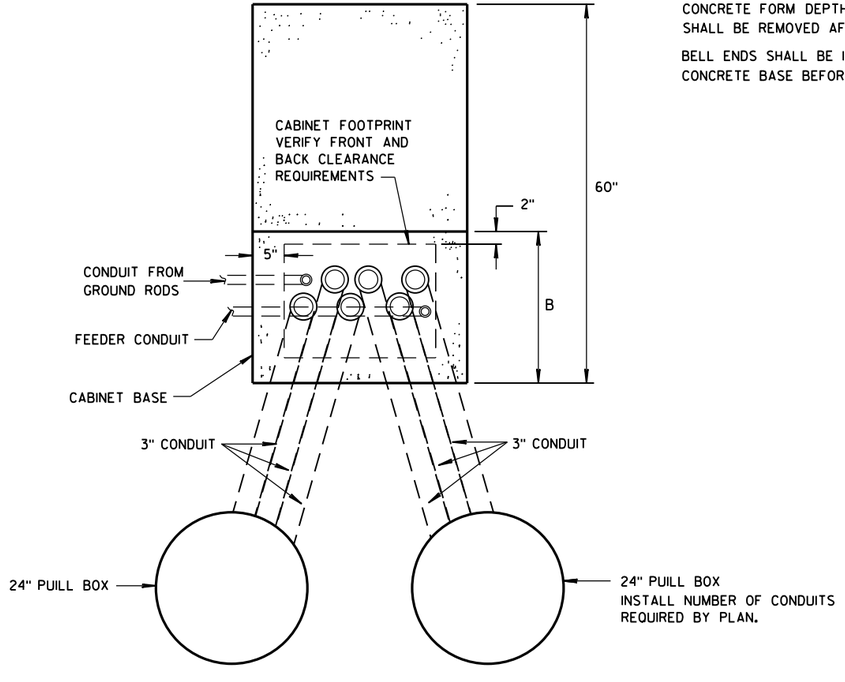
** 1¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. VERIFY LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

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.

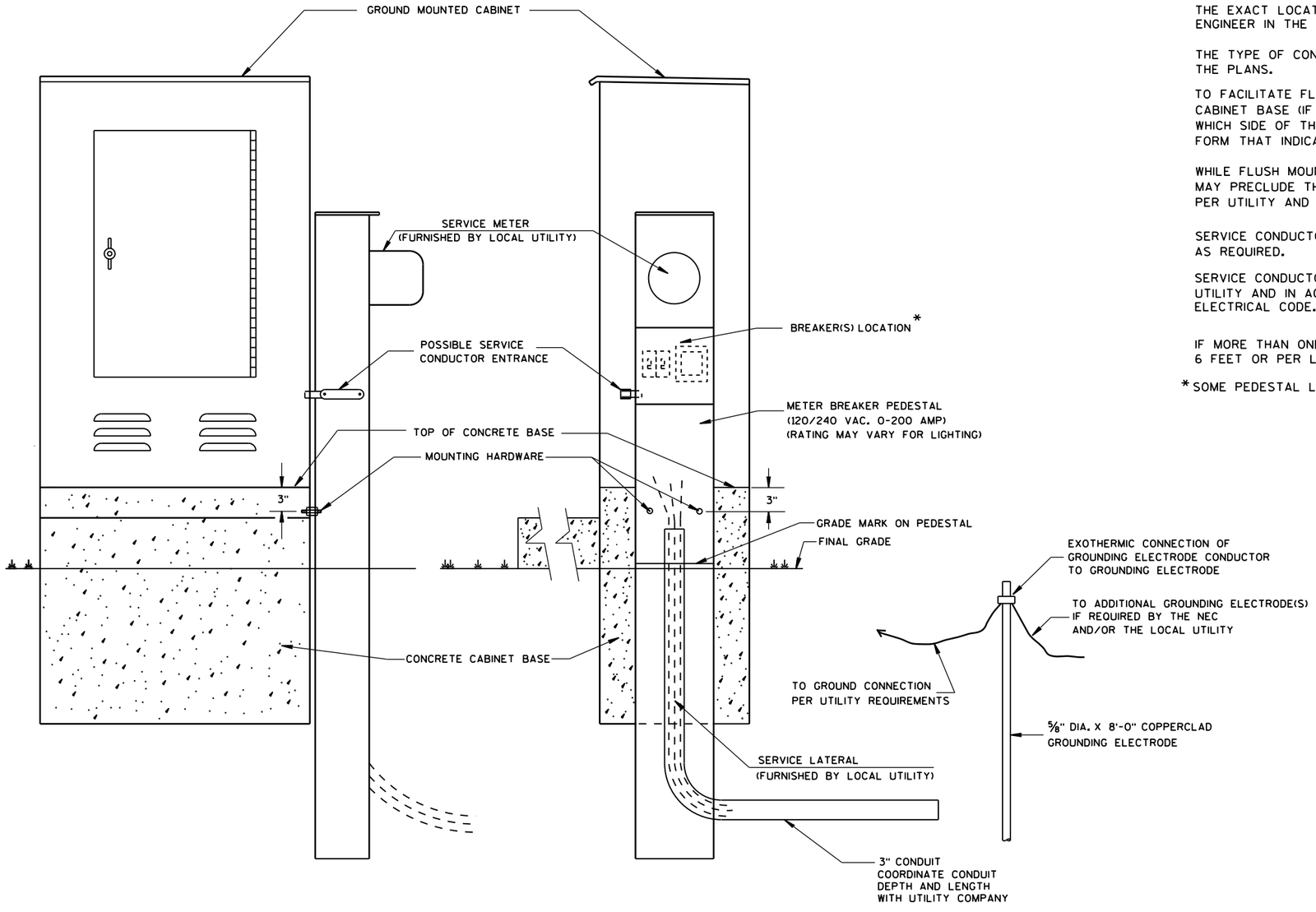
BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

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.

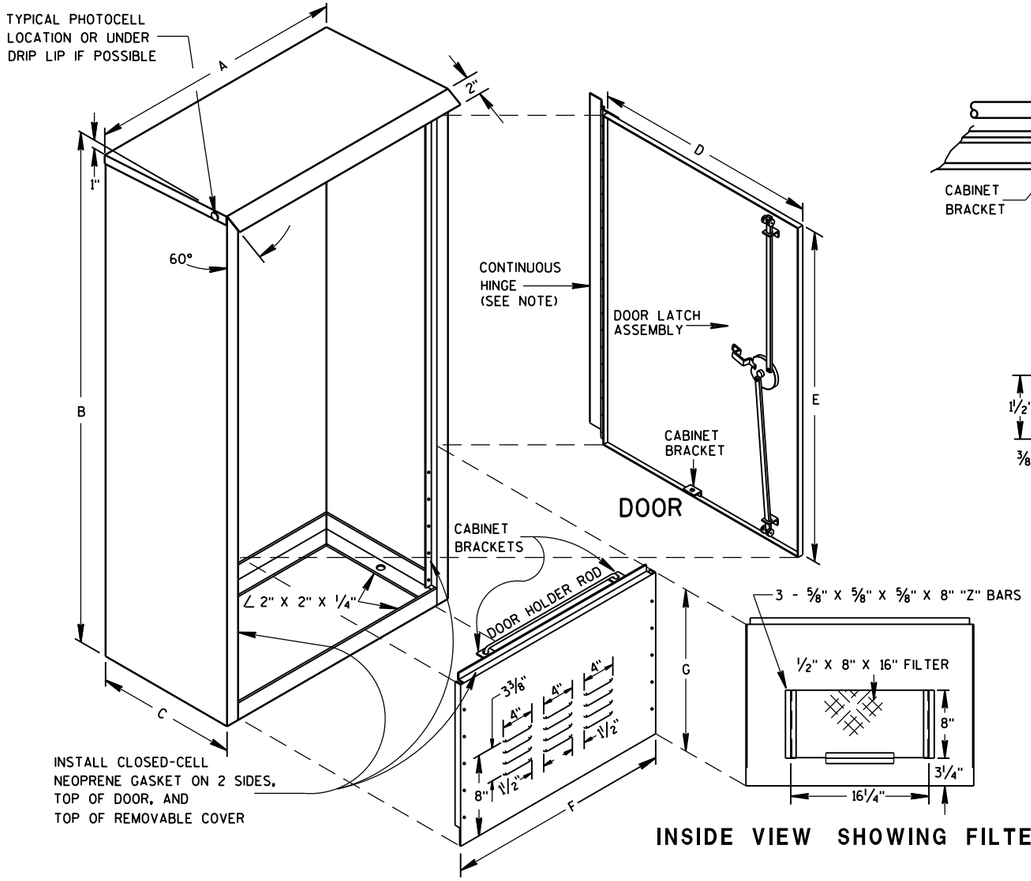
*SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

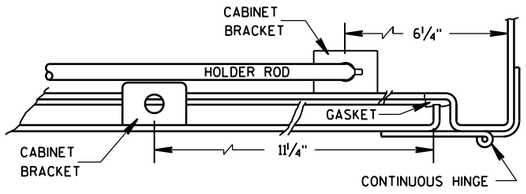
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S.D.D. 9 D 1-5

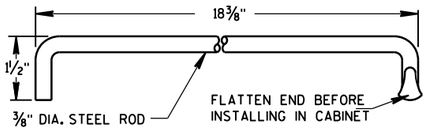


REMOVABLE COVER

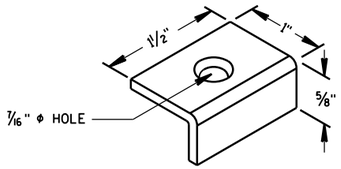
INSIDE VIEW SHOWING FILTER



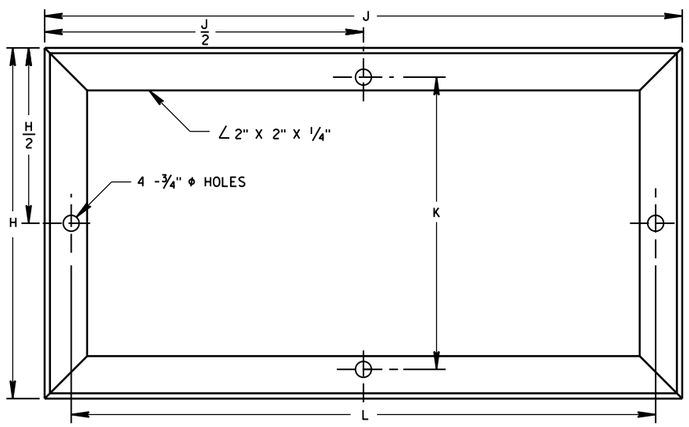
HINGE & DOOR HOLDER



HOLDER ROD



CABINET BRACKET



MOUNTING BASE

TABLE OF DIMENSIONS (INCHES)

MARK	CABINET TYPE		
	3060	3860	3866
A	30	38	38
B	60	60	66
C	16 1/2	16 1/2	24
D	26 1/2	34 3/4	33 3/4
E	38 3/4	38 3/4	38 3/4
F	26 1/2	34 3/4	33 3/4
G	19	19	25
H	16 1/2	16 1/2	24
H/2	8 1/4	8 1/4	12
J	30	38	38
J/2	15	19	19
K	13 3/4	13 3/4	21 1/4
L	27 1/2	35 1/2	35 1/2

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PRIME WITH PHOSPHATE TREATMENT AND PRIMER.

FINISH EXTERIOR SURFACES WITH RUSTOLEUM #906 SILVER GRAY OR APPROVED EQUAL.

FINISH INTERIOR WITH RUSTOLEUM #2766 HIGH GLOSS WHITE ENAMEL OR APPROVED EQUAL.

ALL SHEET METAL PARTS SHALL BE .125 INCH THICK ALUMINUM.

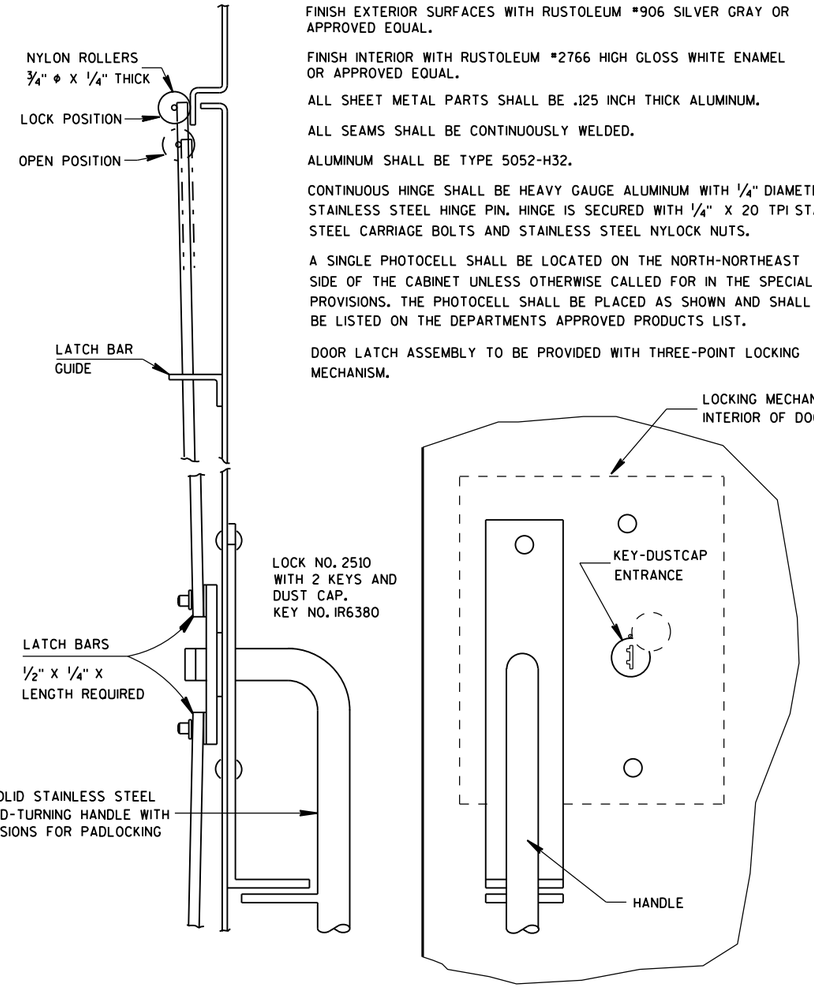
ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

ALUMINUM SHALL BE TYPE 5052-H32.

CONTINUOUS HINGE SHALL BE HEAVY GAUGE ALUMINUM WITH 1/4" DIAMETER STAINLESS STEEL HINGE PIN. HINGE IS SECURED WITH 1/4" X 20 TPI STAINLESS STEEL CARRIAGE BOLTS AND STAINLESS STEEL NYLOCK NUTS.

A SINGLE PHOTOCELL SHALL BE LOCATED ON THE NORTH-NORTHEAST SIDE OF THE CABINET UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISIONS. THE PHOTOCELL SHALL BE PLACED AS SHOWN AND SHALL BE LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST.

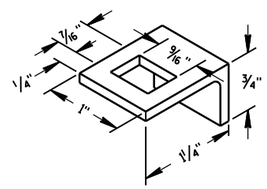
DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.



SIDE VIEW

FRONT VIEW

LATCH ASSEMBLY



LATCH BAR GUIDE

SIGNAL CONTROL CABINET

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL 376
FHWA

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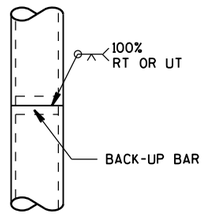
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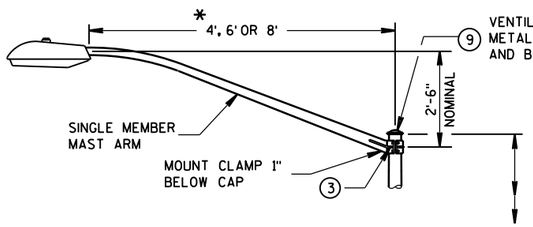
S.D.D. 9 D 2-3

FOR MANUFACTURERS USE ONLY

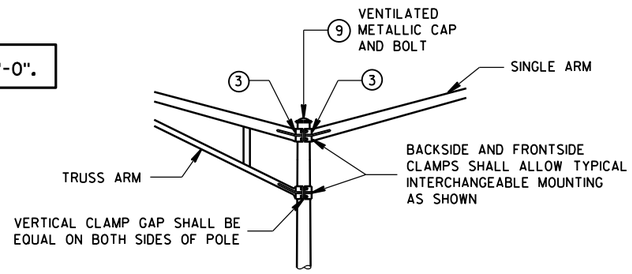
WELD TO BE 100% R.T. OR U.T. TESTED AS PER THE REQUIREMENTS OF AWS D 1.5-88. RECORDS OF COMPLIANCE OF SUCH TESTING SHALL BE FURNISHED TO THE OFFICE OF DESIGN/BRIDGE FOR VERIFICATION AND APPROVAL.

*RISE FOR 4' ARM SHALL BE 2'-0".





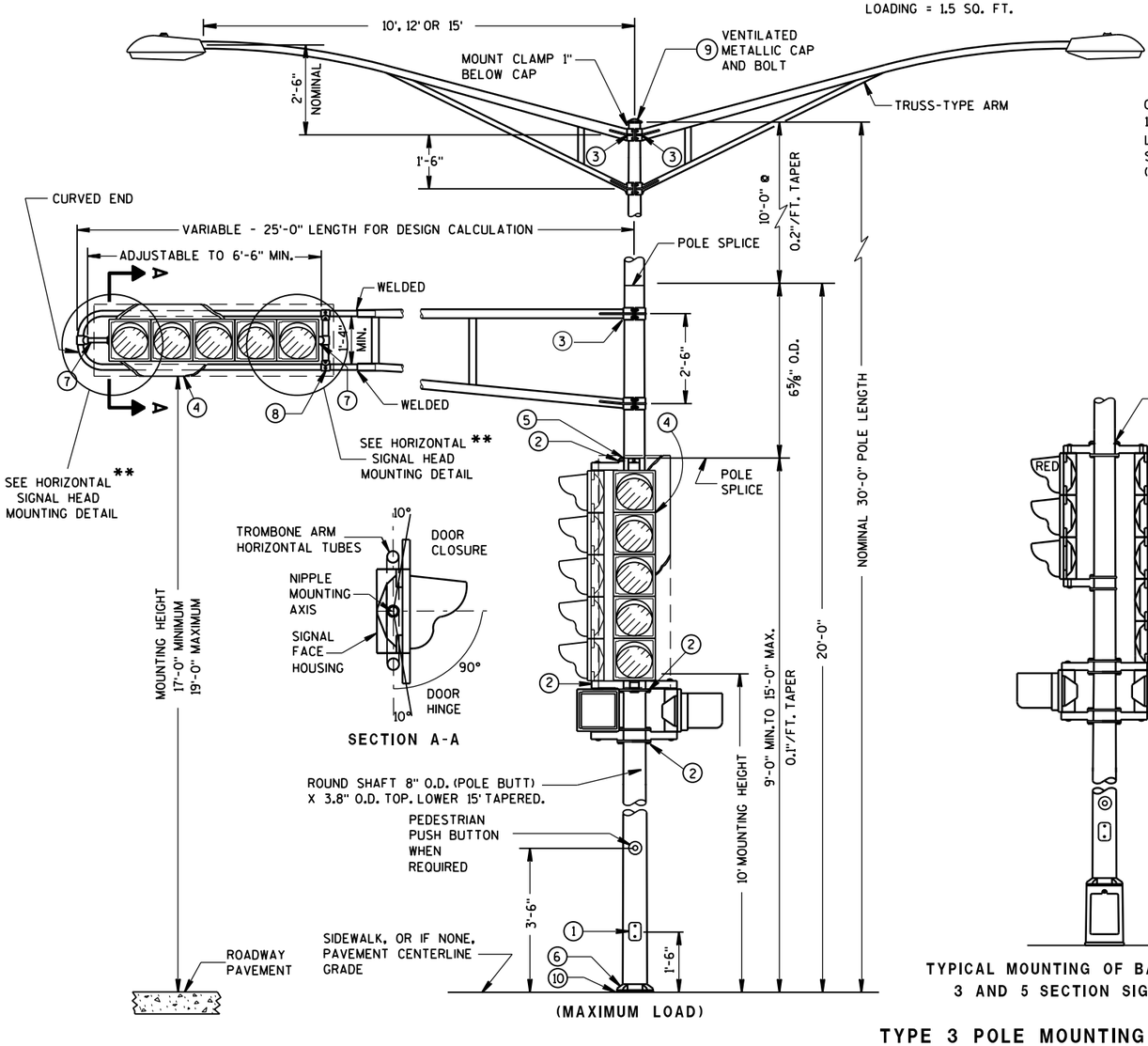
POLE SPLICE DETAIL

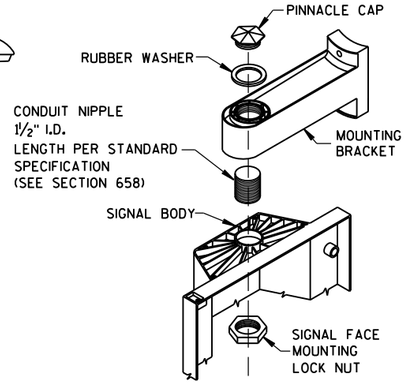


INTERCHANGEABLE MOUNTING DETAIL

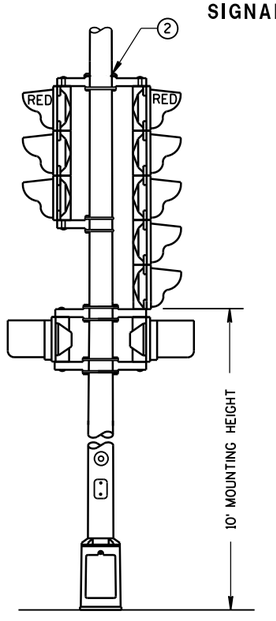
LUMINAIRE

WT. - 50 LBS.
EFFECTIVE PROJECTED
AREA FOR WIND
LOADING = 1.5 SQ. FT.

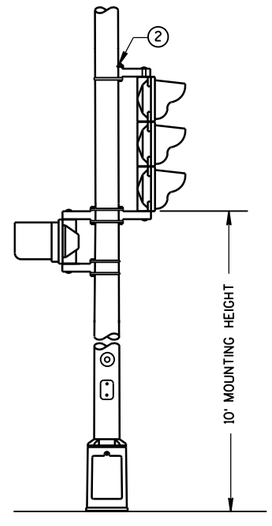




SIGNAL FACE MOUNTING DETAIL
(BANDED)



TYPICAL MOUNTING OF BACK TO BACK
3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION
SIGNAL FACE

TYPE 3 POLE MOUNTING CONFIGURATION

GENERAL NOTES

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

ALL TYPE 3 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

A PULL WIRE/ROPE IN ACCORDANCE WITH STANDARD SPECIFICATION 652, SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ¼" X ¾" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.

(2) SIGNAL FACE MOUNTING BRACKETS, MOUNT WITH CAP SCREWS AND BANDING. (SEE STANDARD SPECIFICATIONS - SEC. 658)

(3) GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.

(4) SECURELY MOUNT DULL BLACK POLYCARBONATE BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURER'S RECOMMENDATIONS.

(5) POLE MOUNTED SIGNAL FACES SHALL REQUIRE 1 OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACE.

(6) TYPE 3 POLE CONFIGURATIONS SHALL BE MOUNTED DIRECTLY TO THEIR CONCRETE BASES.

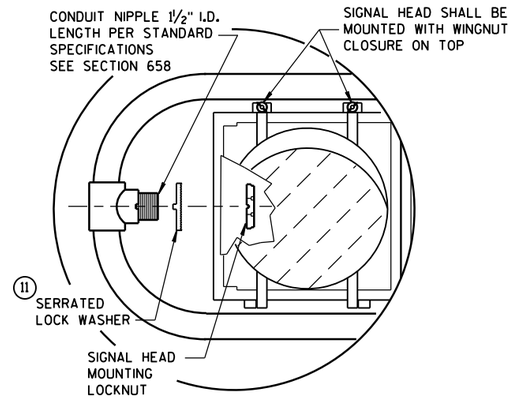
(7) MOUNTING BRACKET NIPPLES FOR THE SIGNAL FACE(S) SHALL BE 2 INCHES IN LENGTH AND 1½ INCHES IN DIAMETER. (SEE STANDARD SPECIFICATION - SECTION 658)

(8) VERTICAL STRUT (ADJUSTABLE). ONE (1) SET SCREW (1/4 " X ¾" -20 TPI, STAINLESS STEEL, HEX HEAD) INTO EACH ARM MEMBER IF STRUT IS THE SLIDING TYPE.

(9) FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(10) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(11) USE SERRATED LOCK WASHERS WITH NOTCHES BETWEEN END TEE AND SIGNAL HEAD.



HORIZONTAL SIGNAL HEAD MOUNTING DETAIL **

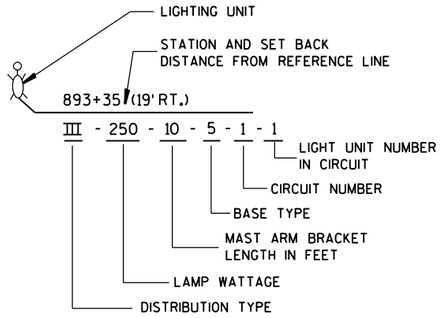
** SIGNAL HEAD ATTACHMENT ALSO APPLYS TO MOUNTING AT CROSS BAR

POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 3 (HEAVY DUTY)

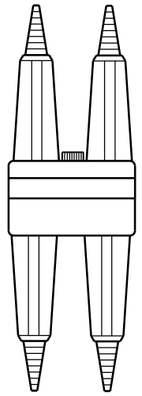
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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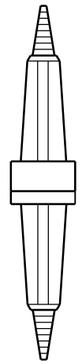
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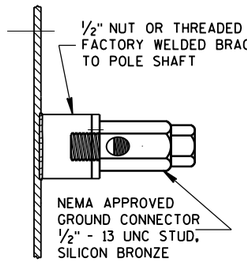
LIGHTING UNIT CODE
(TYPICAL)

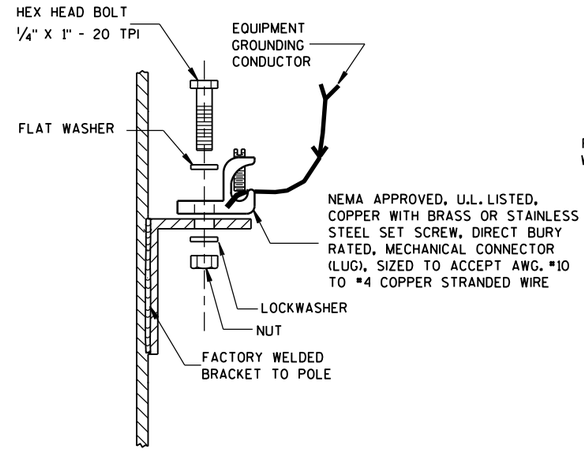


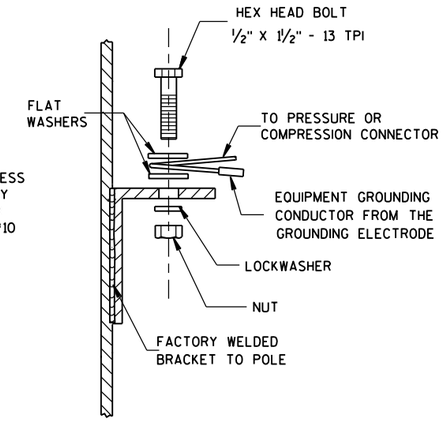
DETAIL "A"
BREAKAWY DOUBLE POLE WITH WATERPROOF INSULATING BOOT



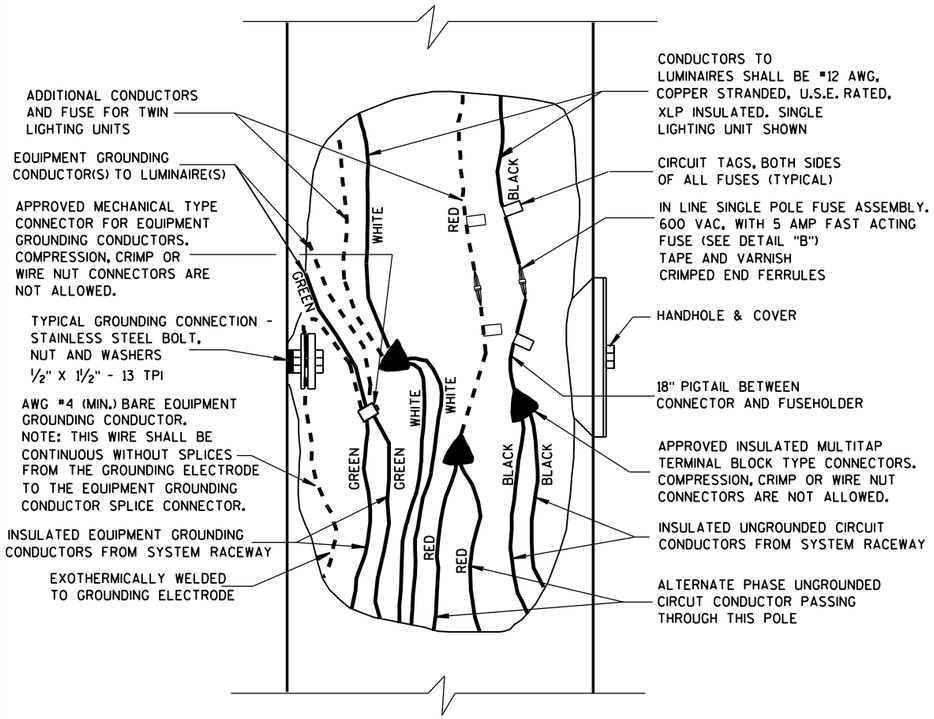
DETAIL "B"
BREAKAWY SINGLE POLE WITH WATERPROOF INSULATING BOOT



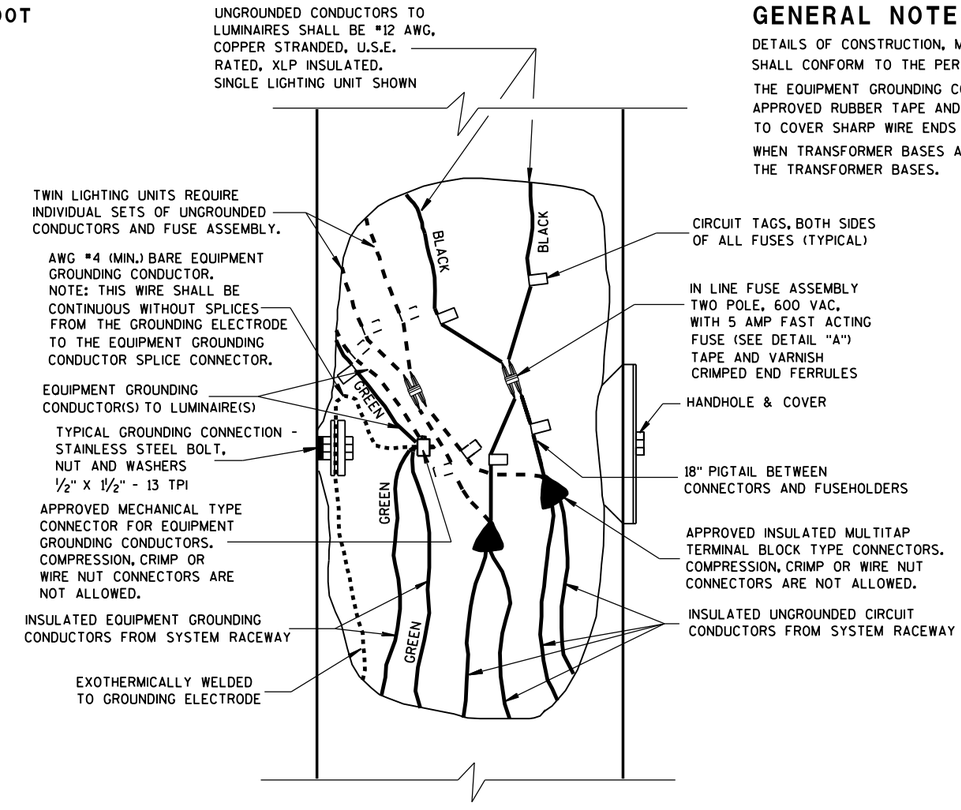




TYPICAL GROUNDING CONNECTIONS
NUT, BOLT, WASHERS AND LOCKWASHERS SHALL BE STAINLESS STEEL



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.

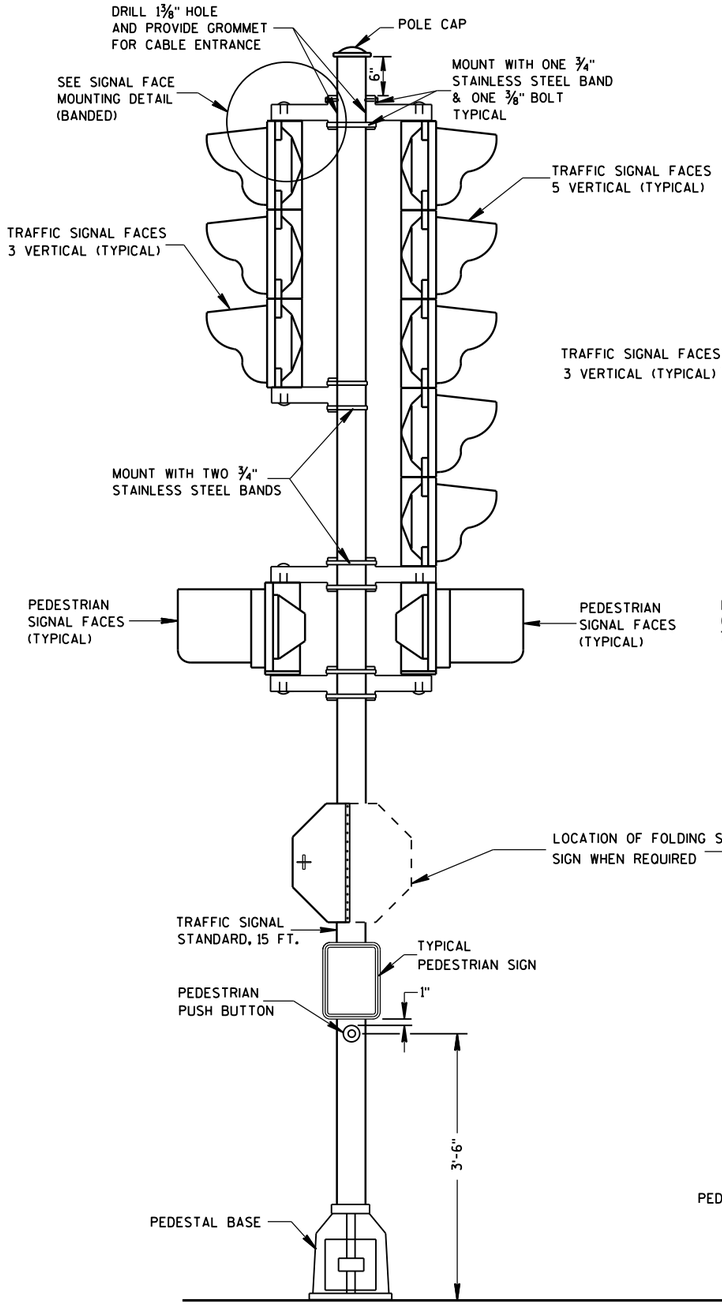
WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

NON-FREEWAY LIGHTING UNIT POLE WIRING

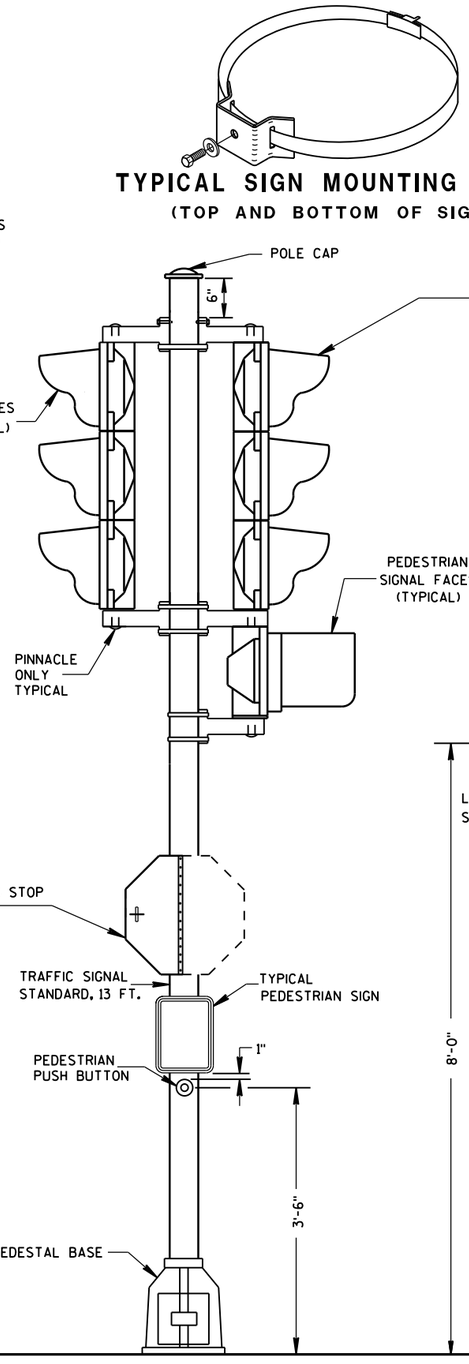
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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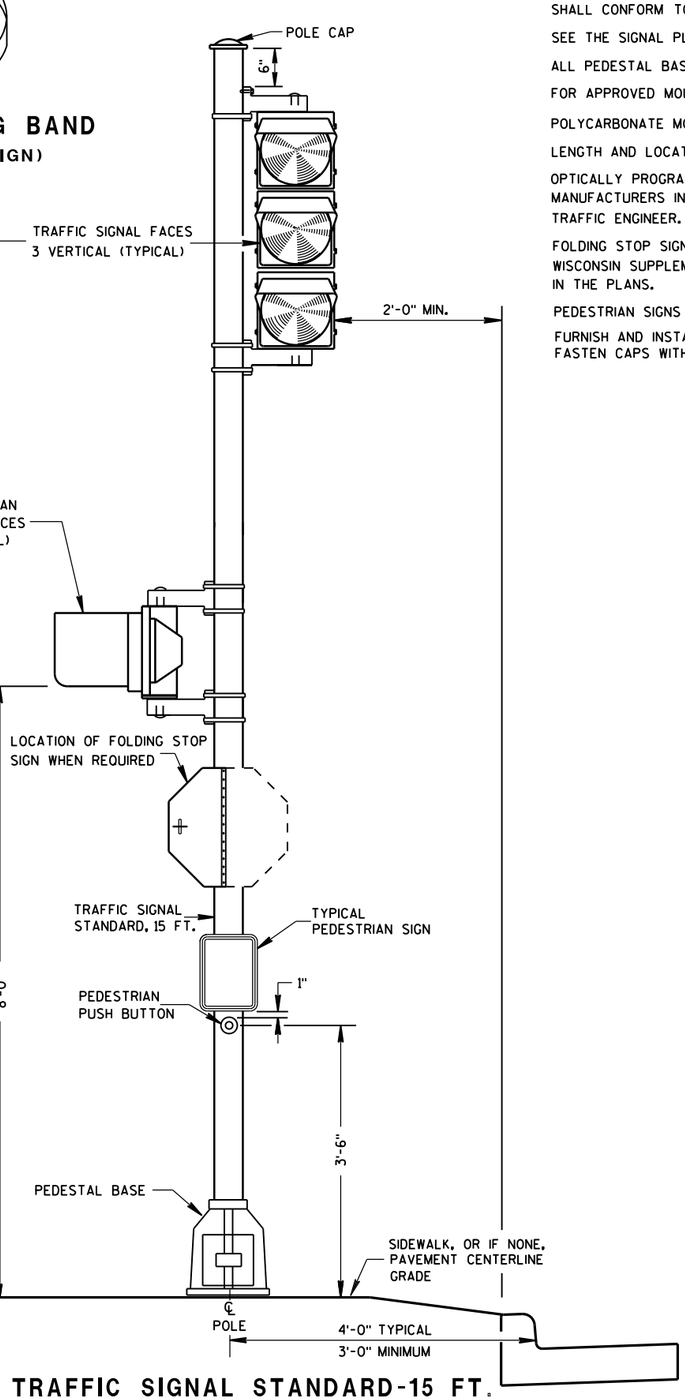


TRAFFIC SIGNAL STANDARD-15 FT.



TRAFFIC SIGNAL STANDARD-13 FT.

TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



TRAFFIC SIGNAL STANDARD-15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

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

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

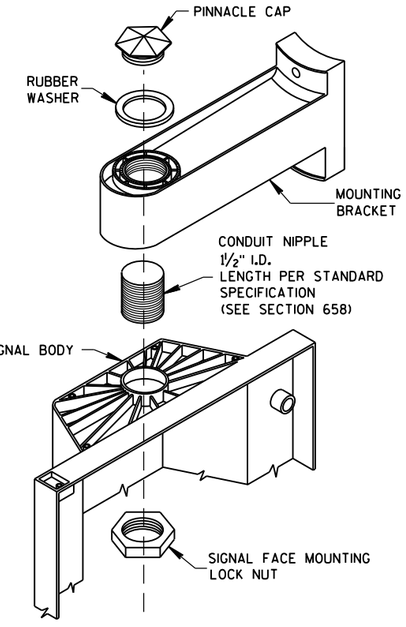
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



SIGNAL FACE MOUNTING DETAIL
(BANDED)

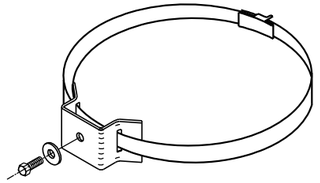
TRAFFIC SIGNAL STANDARD
POLY BRACKET MOUNTINGS
(TYPICAL) 13 FT. OR 15 FT.

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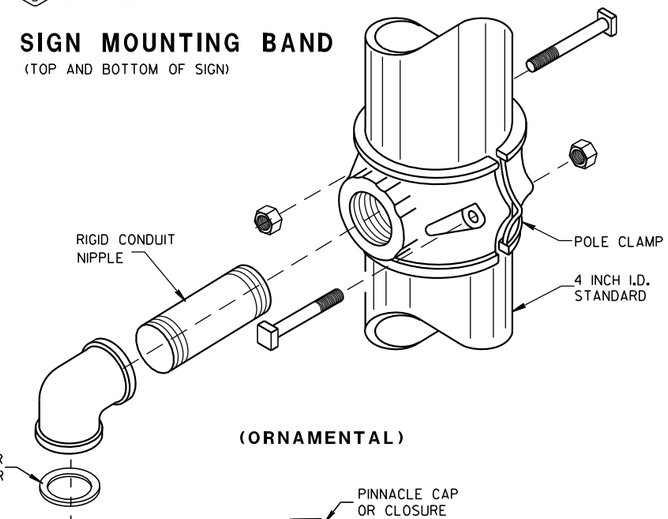
APPROVED
2/28/2013 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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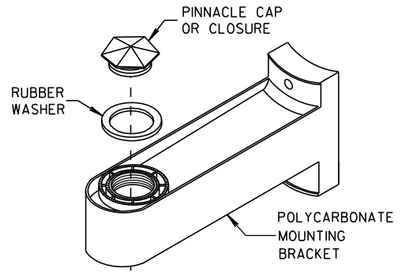
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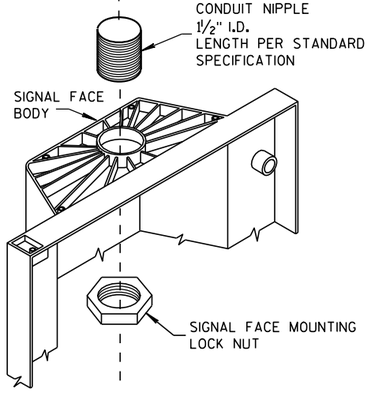
TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



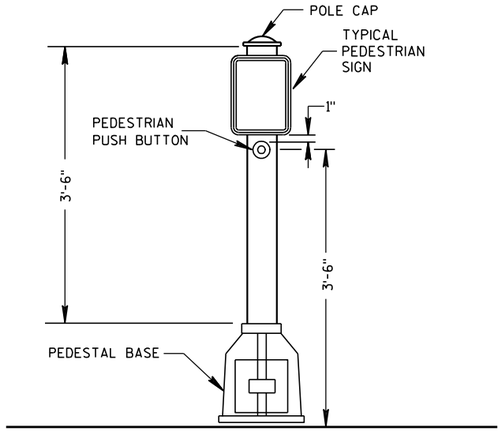
(ORNAMENTAL)



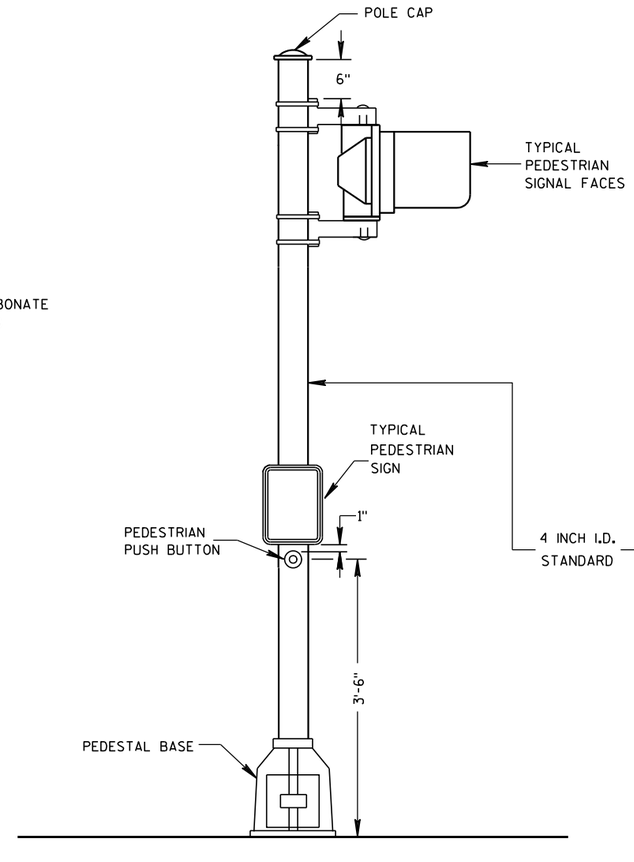
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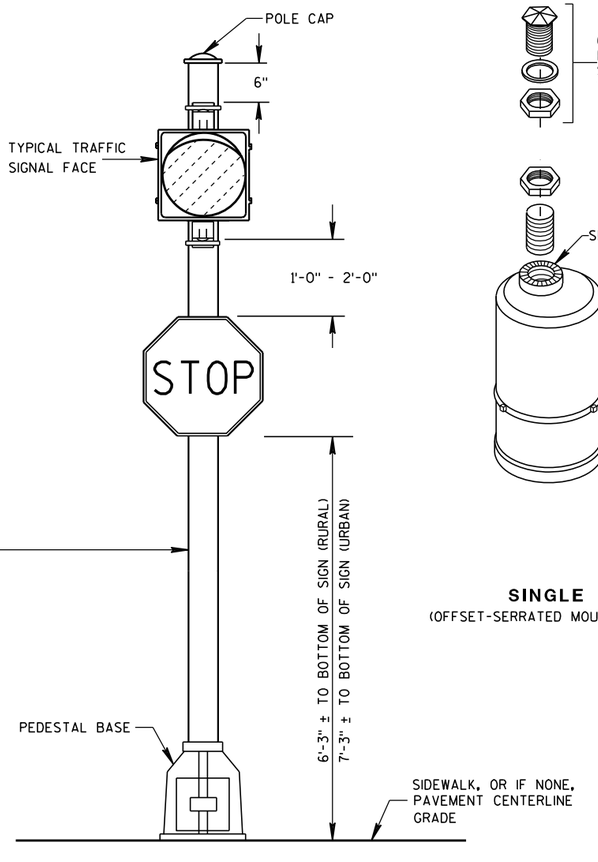
SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON TYPICAL MOUNTING



PEDESTRIAN FACE STANDARD-10 FT.
(WALK-DON'T WALK)



STANDARD FLASHER.
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED

GENERAL NOTES

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

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIFICATIONS.

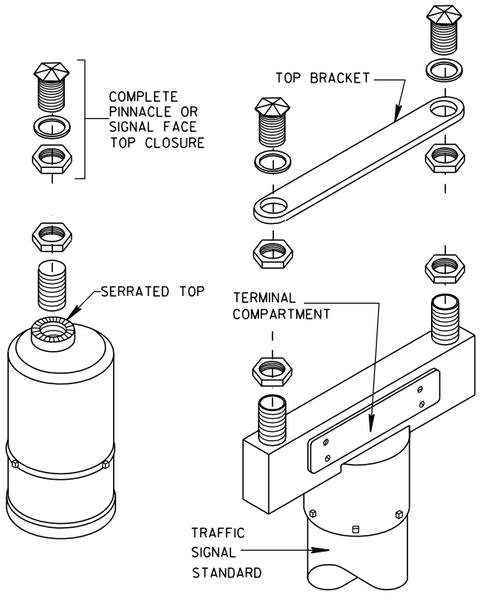
POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE DISTRICT TRAFFIC ENGINEER).

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



SINGLE
(OFFSET-SERRATED MOUNTING)

DOUBLE
(SERRATED MOUNTING)

SLIPFITTERS

TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/11/10
DATE

/S/ John Corbin
STATE ELECTRICAL ENGI 380

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S.D.D. 9 E 7-5

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30'-0" MAX.

8'-0" *

15'-0" MAX.

SEE ARM CONNECTION DETAIL

SIGN 18" X 108"

**

* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.

25'-6" MAXIMUM MOUNTING HEIGHT

17'-6" MINIMUM MOUNTING HEIGHT

ROADWAY PAVEMENT

R4-7
24" x 30"

19'-0"

10'-0"

POLE: (.14"/FT. TAPER)
1 PIECE (NO WELDED POLE SECTIONS)
POLE BUTT DIA. = 11.50"

PEDESTRIAN PUSH BUTTON

TYPICAL PEDESTRIAN SIGN

ANCHOR RODS:
FY=55 KSI
ASTM F1554 GR 55
ROD CIRCLE = 15"
ANCHOR ROD DIAM. 1½"
GALVANIZED. (6 ANCHOR RODS)

3'-6"

MAXIMUM BASE PLATE THICKNESS = 2½"

FOLDING STOP SIGN
30" x 30"

POLE

RING PLATE ⅜" MIN. THICKNESS

GUSSET PLATE ¼" MIN. THICKNESS

ARM

ARM CONNECTION PLATES

1" X 6" HIGH STRENGTH CONNECTION BOLTS

FLANGE CONNECTION
PLATE BOLT HOLES TO BE BOLT NOMINAL DIAMETER + ⅛" CONFORMING TO ASTM A 325

6 BOLT ARM CONNECTION DETAIL

FLAT WASHER

BOLT HEAD

NUT

DTI WASHER

RECOMMENDED BOLT ASSEMBLY DETAIL

DIRECTION OF ARM

ORIENTATION OF 6 ANCHOR RODS

℄ FOOTING PARALLEL TO ROADWAY

ANCHOR ROD LOCATION

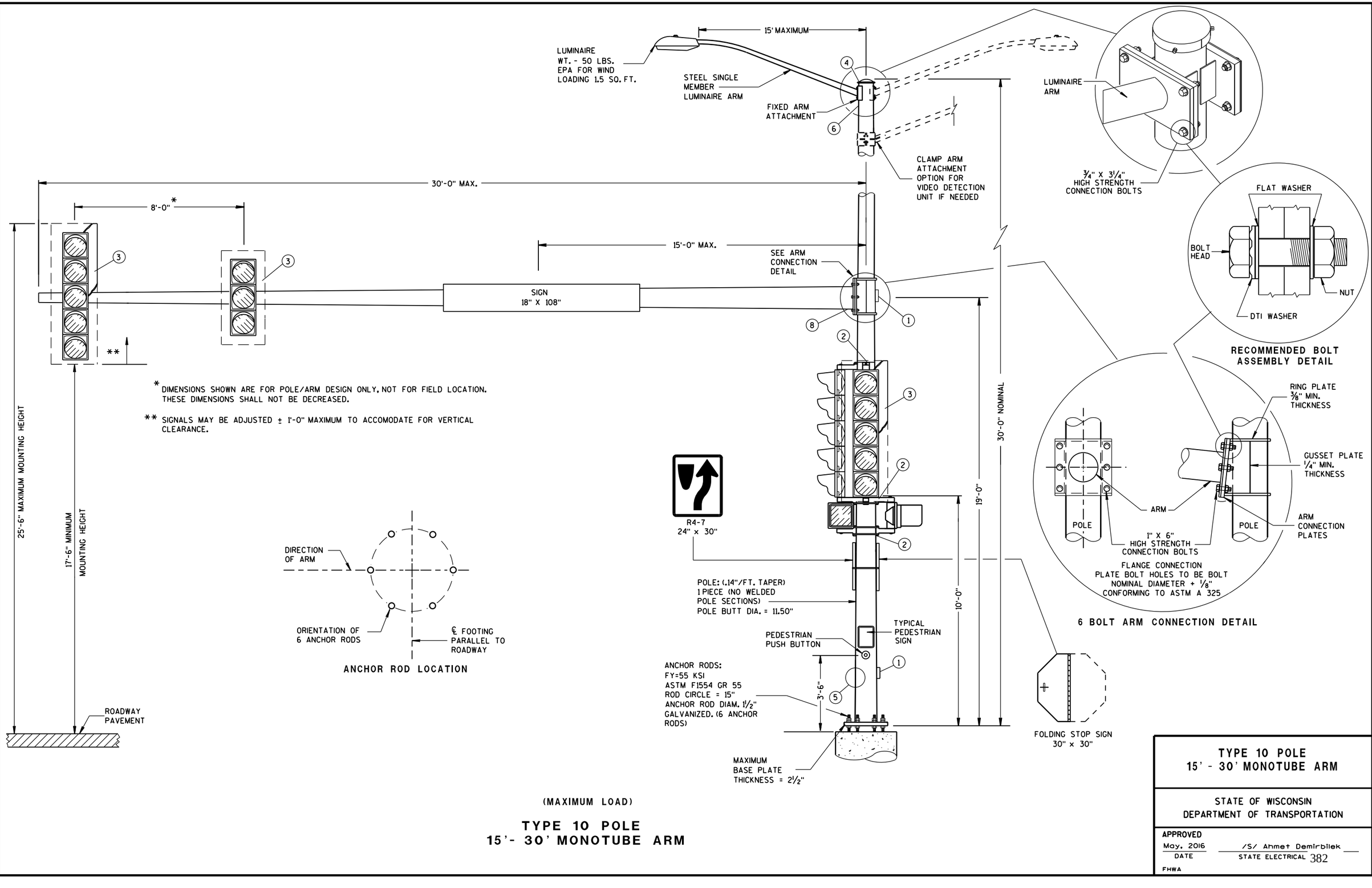
(MAXIMUM LOAD)

TYPE 9 POLE 15'- 30' MONOTUBE ARM

TYPE 9 POLE 15' - 30' MONOTUBE ARM	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May, 2016 DATE	/S/ Ahmet Demirbilek STATE ELECTRICAL
FHWA	

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* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.

(MAXIMUM LOAD)

TYPE 10 POLE
15'- 30' MONOTUBE ARM

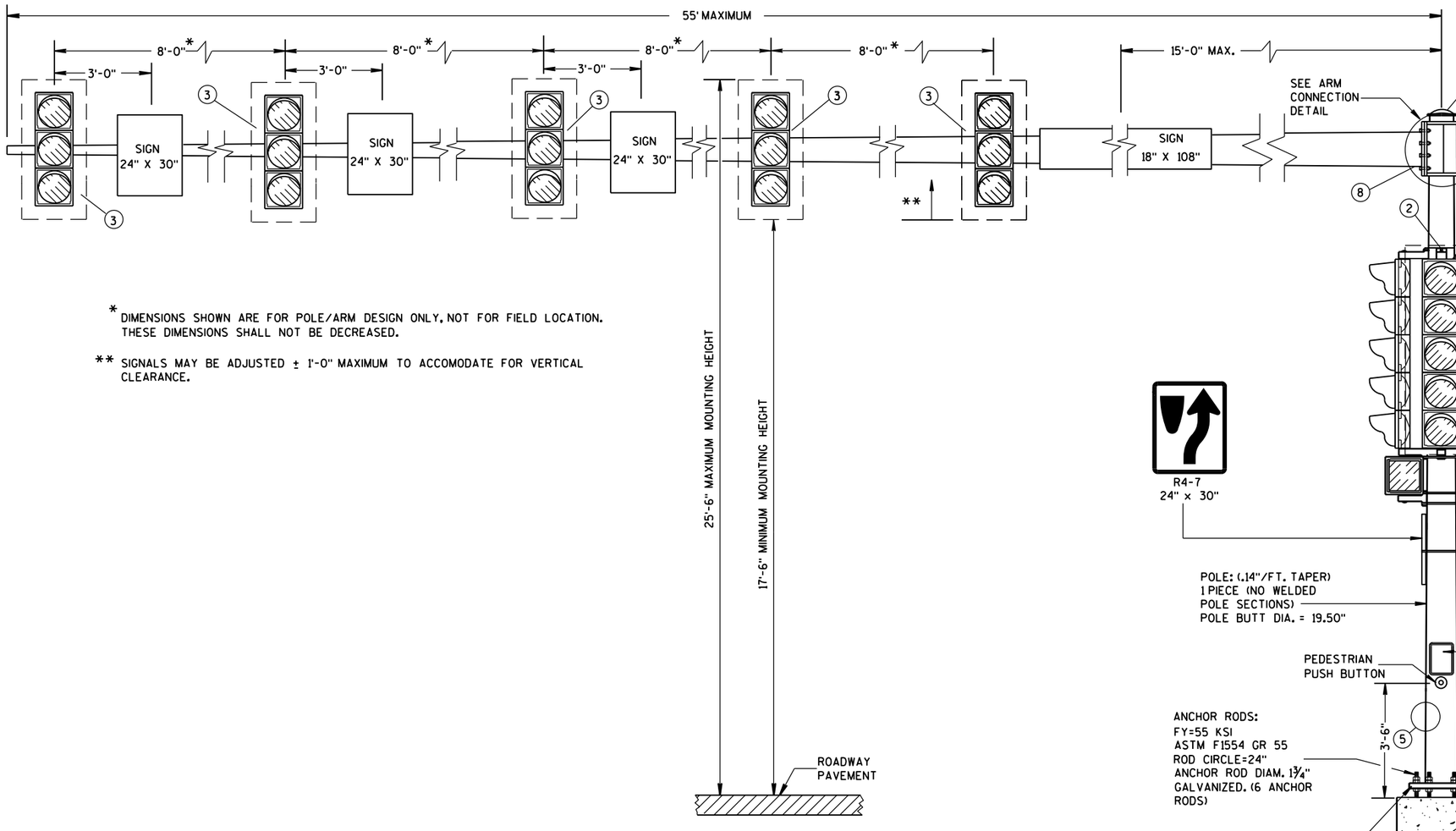
TYPE 10 POLE
15' - 30' MONOTUBE ARM

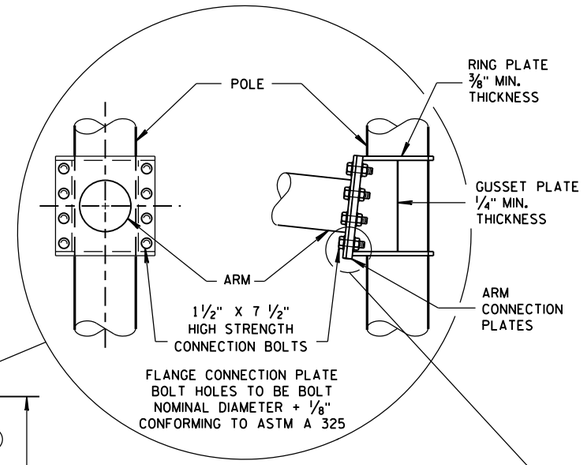
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May, 2016 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 382
FHWA

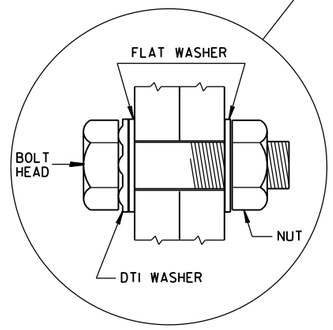
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S.D.D. 9 E 8-8b

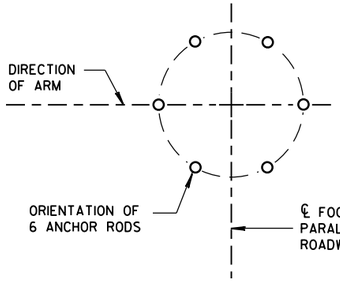




8 BOLT ARM CONNECTION DETAIL



RECOMMENDED
BOLT ASSEMBLY
DETAIL



ANCHOR ROD LOCATION

* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.

(MAXIMUM LOAD)

TYPE 12 POLE 35'- 55' MONOTUBE ARM

TYPE 12 POLE
35' - 55' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May, 2015
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL 383

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S.D.D. 9 E 8-8c

GENERAL NOTES

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

POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15-FOOT TO 30-FOOT.

POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35-FOOT TO 55-FOOT.

MONOTUBE POLE AND ARM SHALL BE GALVANIZED STEEL.

RING-STIFFENED BUILT-UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE (1) PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3 % ± RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

PROVIDE WIREWAY THRU POLE WALL AND ARM CONNECTION PLATES. PROVIDE ROUND, SMOOTH INSIDE SURFACE.

MANUFACTURER'S SUBMITTED POLE DESIGNS AND DRAWINGS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED AS BEING IN COMPLIANCE WITH THE AASHTO 2013 6TH EDITION AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR TRAFFIC AND LIGHTING STRUCTURES AND AS FOLLOWS:

- CATEGORY III FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 AND TYPE 10 STRUCTURES.
- CATEGORY II FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 12 AND TYPE 13 STRUCTURES.
- 90 MPH (3-SECOND GUST) WIND SPEED AND A 50 YEAR DESIGN LIFE.

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH ¾" S.S. BANDING AROUND THE LEVELING NUTS.

INDENT PRINT (NOMINAL ½" HIGH) THE POLE LENGTH AND FIRST TWO LETTERS OF THE MANUFACTURERS NAME ON TWO SIDES OF THE BASE PLATE 180 DEGREES APART, BEFORE GALVANIZING. THE ARM SHALL BE IDENTIFIED WITH THE SAME INFORMATION BY INDENT PRINT.

SIGNAL FACE SHALL BE MOUNTED 6 INCHES (NOMINAL) FROM THE END OF THE MONOTUBE ARM OR AS SHOWN ON THE PLAN CONSTRUCTION DETAIL OR AS DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL. MOUNT ALL LIKE HEADS AT SAME ELEVATION.

SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

(1) DESIGN FOR MAXIMUM ALLOWABLE HANDHOLE WITH COVER ASSEMBLY WITH TWO ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

(2) SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING, (SEE SPECIFICATIONS SEC. 658).

(3) SECURELY MOUNT BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS.

(4) THE TOP OF THE POLE SHAFT AND THE END OF THE MONOTUBE ARM SHALL BE EQUIPPED WITH A REMOVABLE, VENTILATED CAP HELD SECURELY IN PLACE WITH SET SCREWS.

(5) FACTORY-WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HANDHOLE, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM). PROVIDE HOLE IN BRACKET FOR ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.

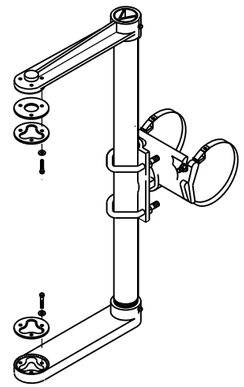
(6) FACTORY-WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

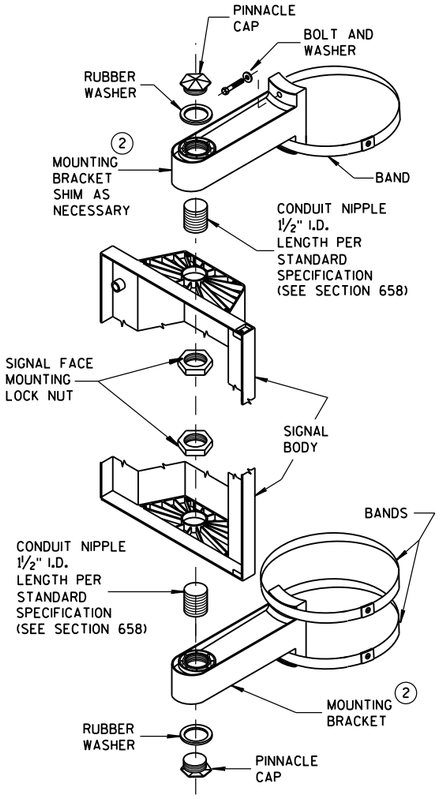
MOUNTING HEIGHT SHALL BE 6'-0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

(8) FACTORY DRILLED ½" DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE.

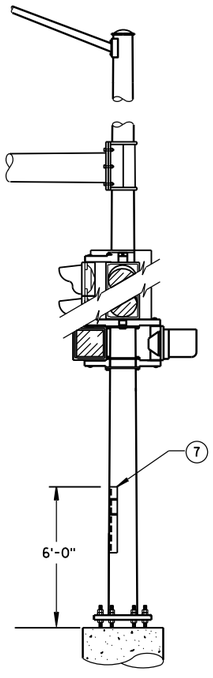


SIGNAL FACE MOUNTING BRACKET
DETAIL FOR MONOTUBE ARM

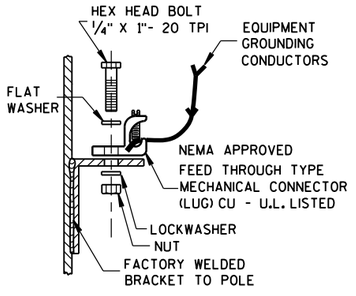
(MOUNT PER MANUFACTURER'S RECOMMENDATION)



SIGNAL FACE
VERTICAL MOUNTING DETAIL

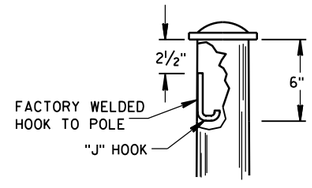


STRUCTURAL IDENTIFICATION
PLAQUE PLACEMENT



TYPICAL GROUNDING CONNECTIONS (5)

NUT, BOLT AND WASHERS SHALL
BE STAINLESS STEEL



"J" HOOK WIRE SUPPORT (6)

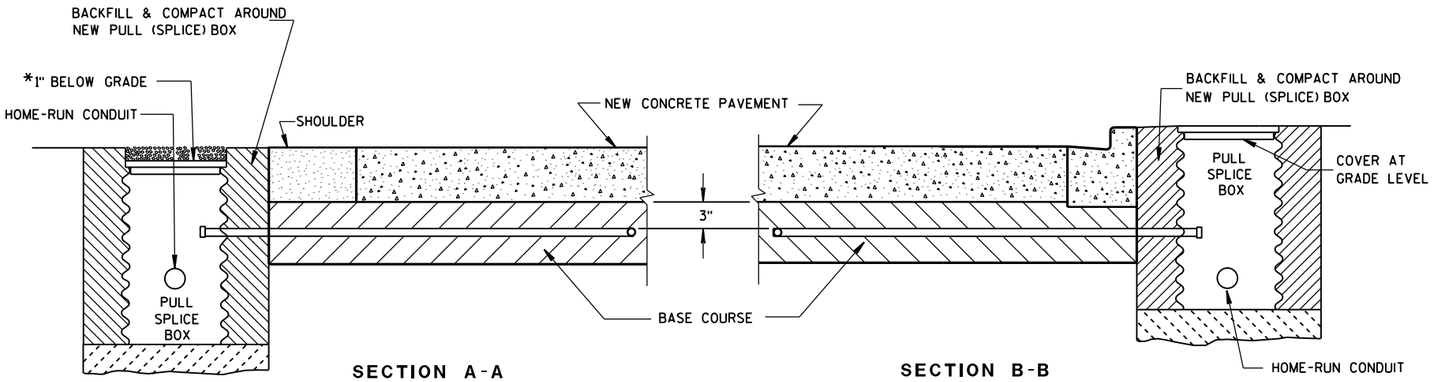
GENERAL NOTES AND HARDWARE DETAILS FOR TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2016 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 384
FHWA

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S.D.D. 9 E 8-8e



SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

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

LOOP SIZE, CONFIGURATION LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

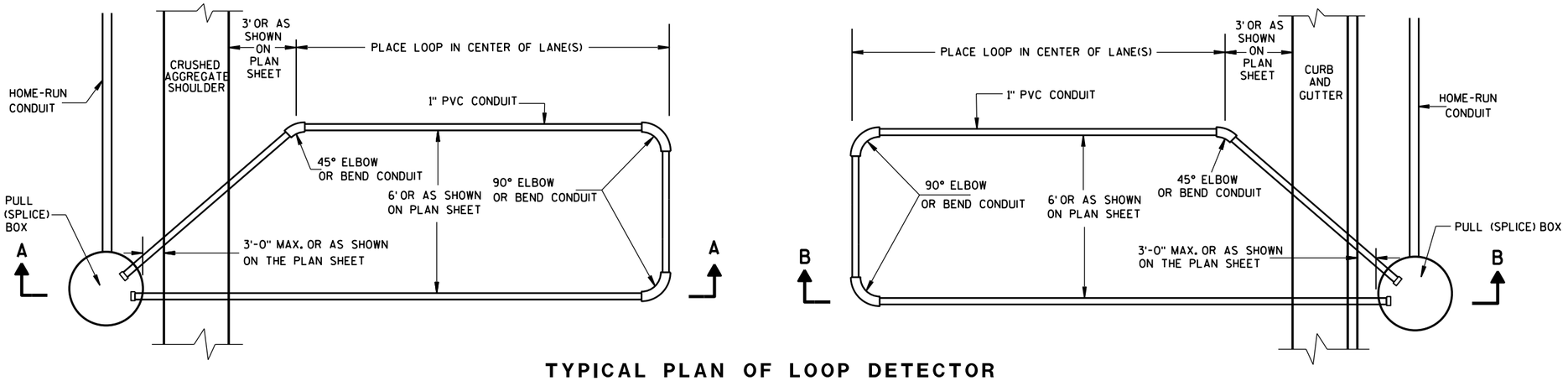
THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICE CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT IN THE BASE COURSE, SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN OF LOOP DETECTOR WITH 18" OR 24" PULL (SPLICE) BOX

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE
FHWA

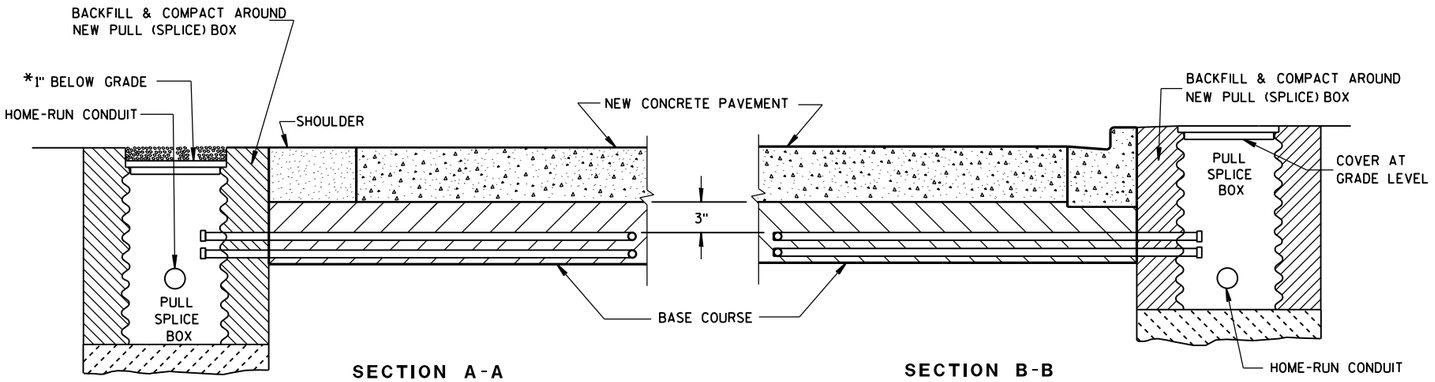
/S/ Ahmet Demirbilek
STATE ELECTRICAL 385

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S.D.D. 9 F 15-4a

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S.D.D. 9 F 15-4a



SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

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

LOOP SIZE, CONFIGURATION LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

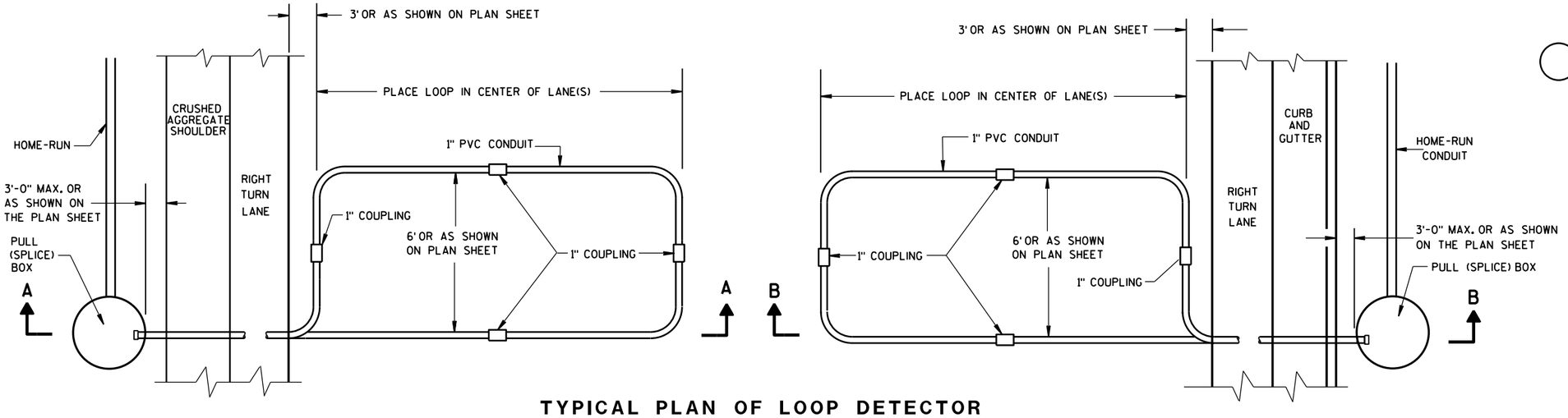
THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

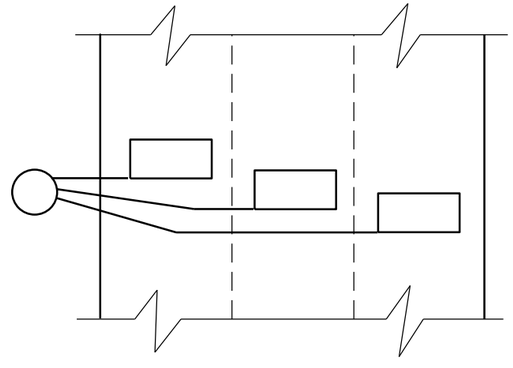
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICED CONTINUOUS LENGTH.

PROTECTION OF THE CONDUITS IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.

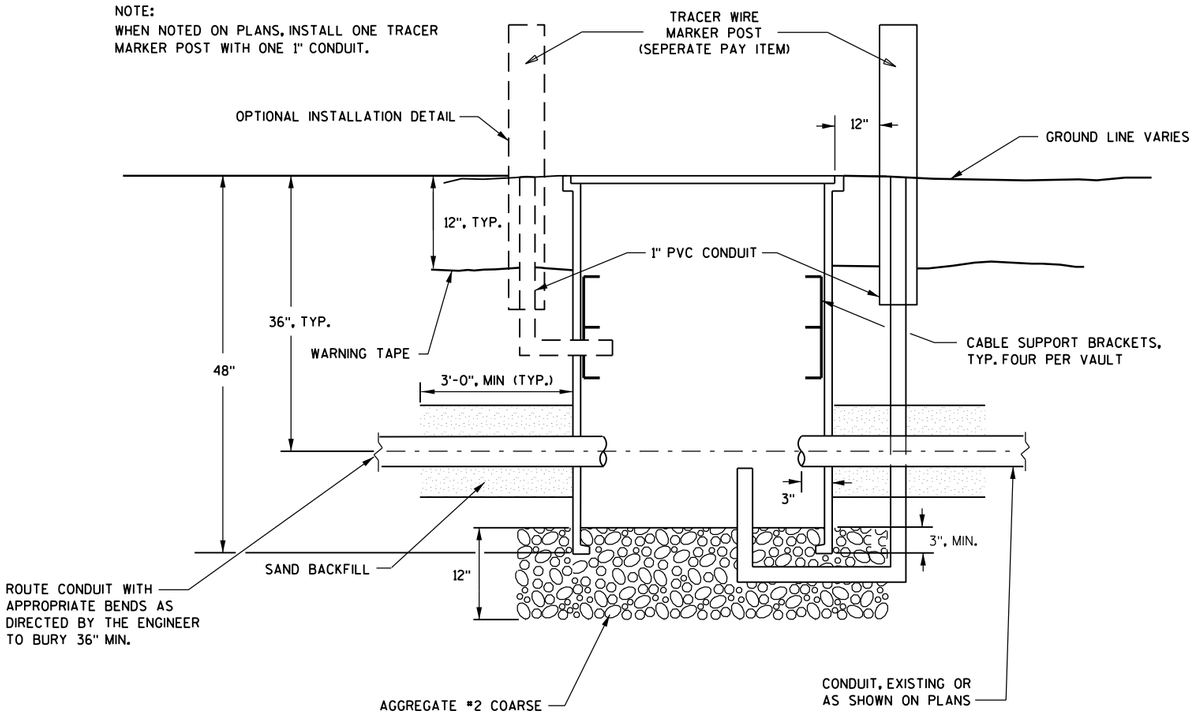


TYPICAL PLAN OF LOOP DETECTOR WITH 24" PULL (SPLICE) BOX

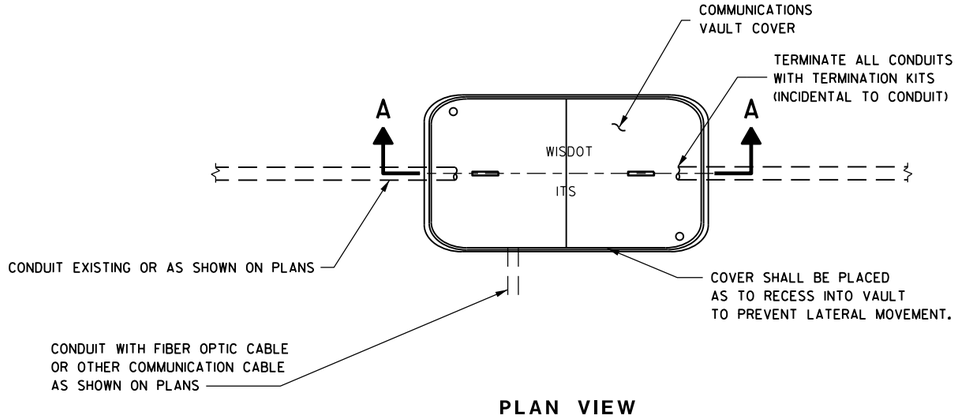


MULTI-LANE INSTALLATION

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED Sept. 2014 — DATE /S/ Ahmet Demirbilek — STATE ELECTRICAL FHWA



SECTION A-A



PLAN VIEW

GENERAL NOTES

PROVIDE VAULT WITH OPEN BASE.

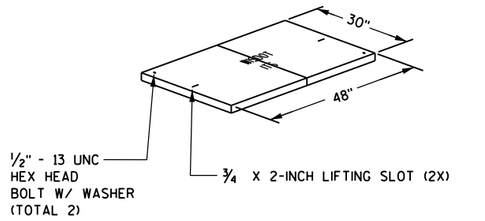
COVER SHALL HAVE A MINIMUM DESIGN LOAD OF 15,000 LBS AND SHALL LOCK.

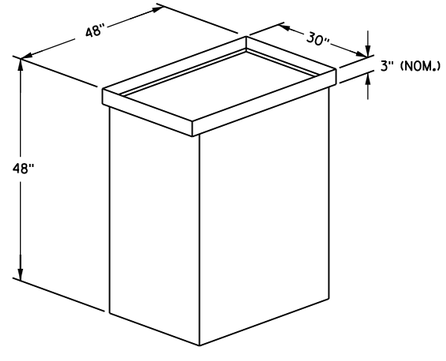
ALL OPENINGS IN STRUCTURE MUST BE MACHINED AT TIME OF FABRICATION, OR PUNCH DRIVEN AT TIME OF PLACEMENT.

VAULTS SHALL BE OF ONE-PIECE CONSTRUCTION. TWO-PIECE/STACKABLE VAULTS WILL NOT BE PERMITTED.

FIELD PLACEMENT OF COMMUNICATIONS VAULTS SHALL BE AS DIRECTED BY THE ENGINEER.

FIBER TRACER MARKER POSTS SHALL BE CONSTRUCTED WITH HIGH-IMPACT PLASTIC MATERIAL WHICH IS FADE RESISTANT AND UV STABLE. ALL HARDWARE SHALL BE STAINLESS STEEL AND CONTAIN A MINIMUM OF FIVE STANDARD TERMINALS.



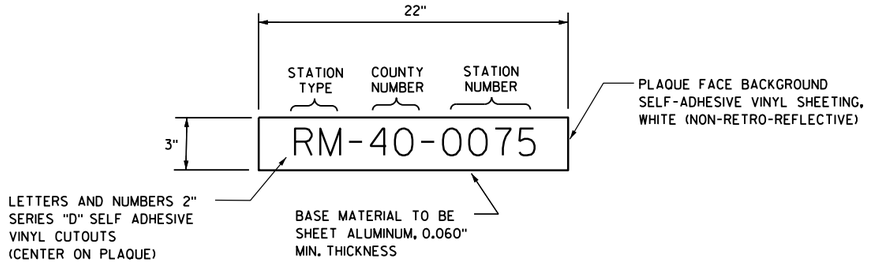


ISOMETRIC VIEW

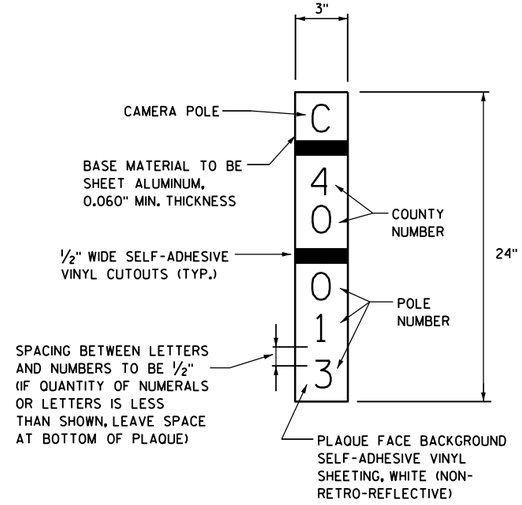
COMMUNICATIONS VAULT TYPE 1

COMMUNICATION VAULT TYPE 1	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
May, 2017 DATE	/S/Ahmet Demirbilek STATE ELECTRICAL
FHWA	

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S.D.D. 9 H 9-2



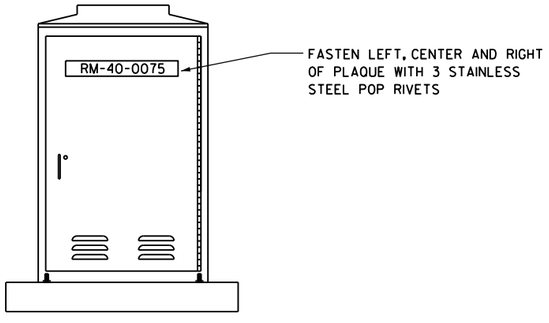
CONTROL CABINET IDENTIFICATION PLAQUE DETAIL



POLE IDENTIFICATION PLAQUE DETAIL

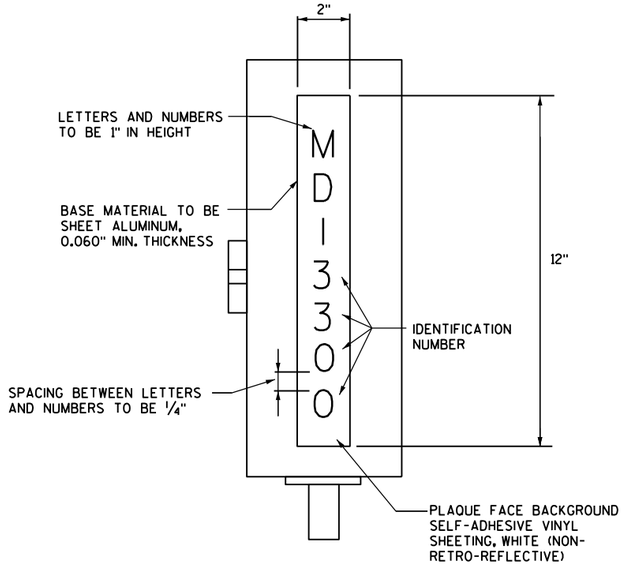
GENERAL NOTES

1. TWO PLAQUES PER CABINET REQUIRED ON CONTROL CABINET.
2. FASTEN ONE PLAQUE ON FRONT DOOR, UPPER HALF.
3. FASTEN ONE PLAQUE ON SIDE FACING LOCAL STREET. IF NO LOCAL STREET NEARBY, OR IF SUCH LOCATION COINCIDES WITH LOCATION OF PLAQUE IN NOTE (2), FASTEN PLAQUE ON REAR OF CABINET, UPPER HALF.
4. COUNTY NUMBER NOT REQUIRED ON RAMP METER CABINETS.



CONTROL CABINET IDENTIFICATION PLAQUE REQUIREMENTS AND PLACEMENTS

(TYPICAL ALL CONTROL CABINETS)



MICROWAVE DETECTOR FIELD CABINET IDENTIFICATION PLAQUE DETAIL

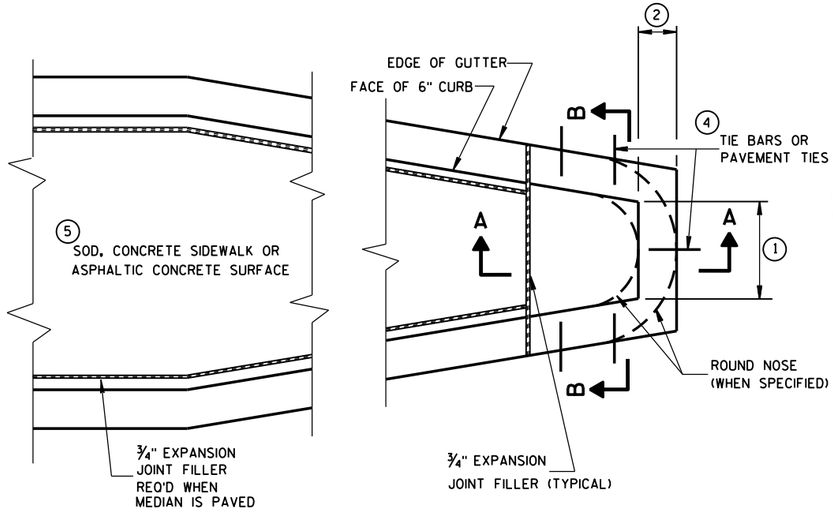
LEGEND STATION TYPE

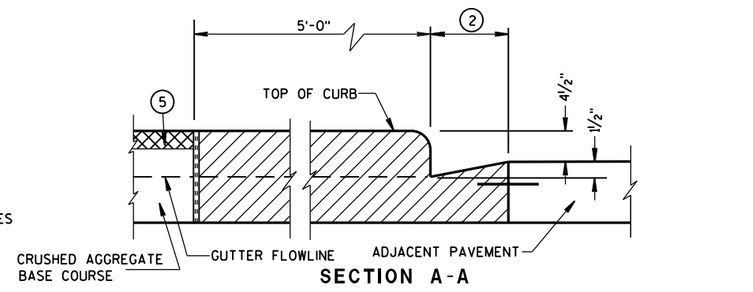
RM - RAMP METER
CCTV - CLOSED CIRCUIT TELEVISION
ATR - AUTOMATIC TRAFFIC RECORDER
SDS - SYSTEM DETECTOR STATION
MD - MICROWAVE DETECTOR

IDENTIFICATION PLAQUE REQUIREMENTS AND PLACEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demribilek — STATE ELECTRICAL 388
FHWA





CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

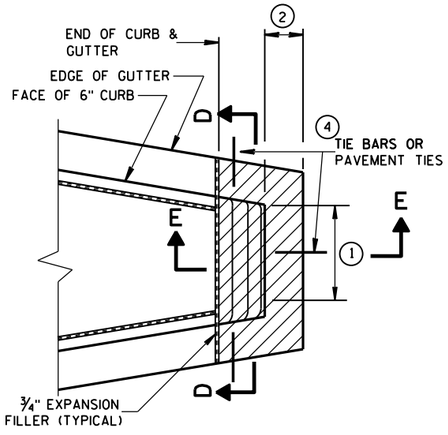
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

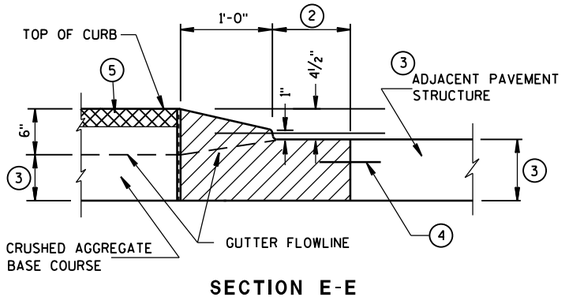
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

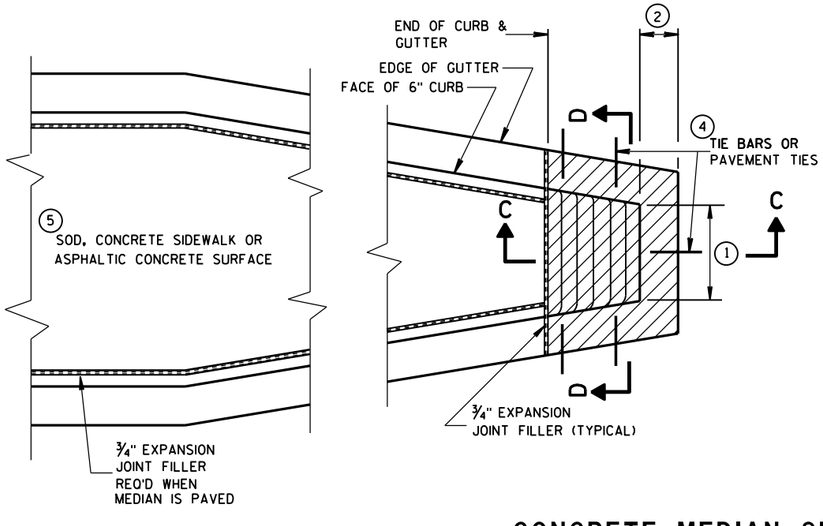
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

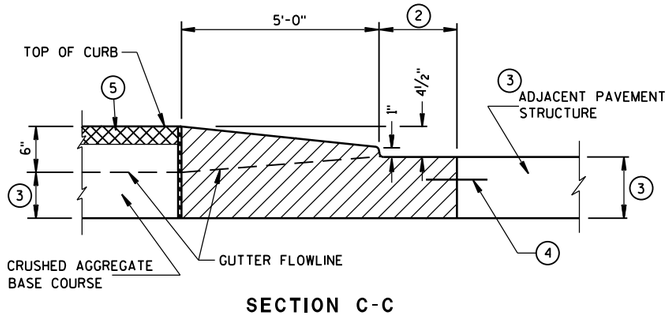




SECTION E-E

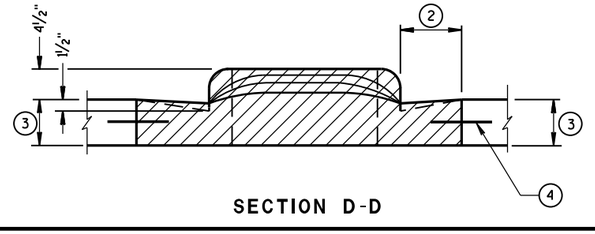
CONCRETE MEDIAN SLOPED NOSE TYPE 2





SECTION C-C

CONCRETE MEDIAN SLOPED NOSE TYPE 1



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

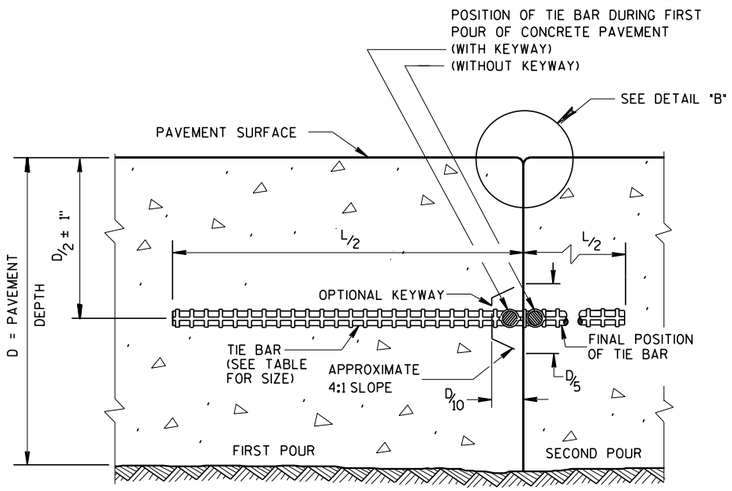
APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER
FHWA

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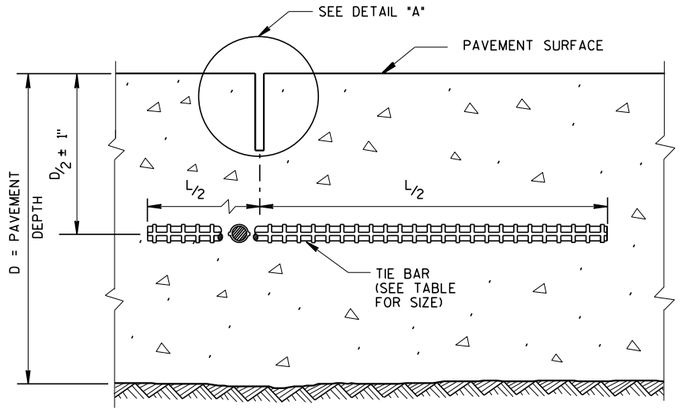
S.D.D. 11 B 2-2

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S.D.D. 11 B 2-2



CONSTRUCTION JOINT



SAWED JOINT

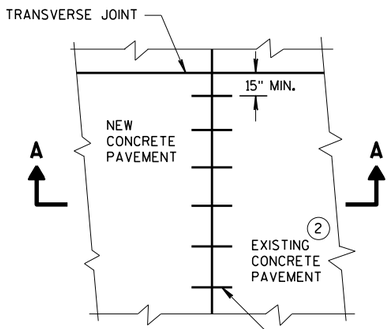
GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

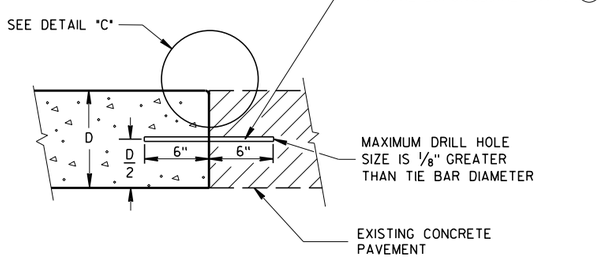
CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

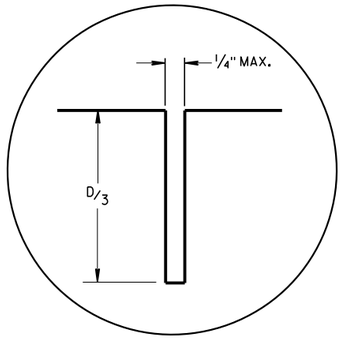


PLAN VIEW

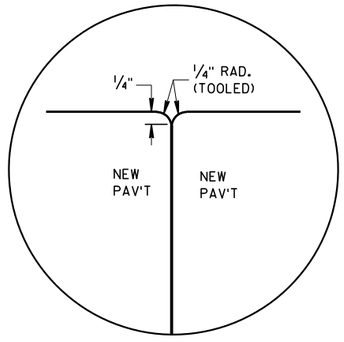


SECTION A-A

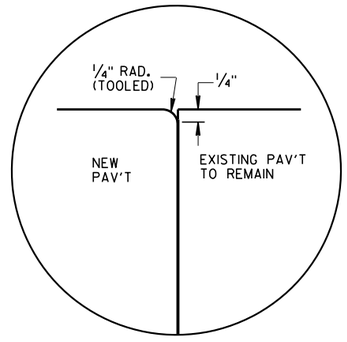
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"



DETAIL "B"



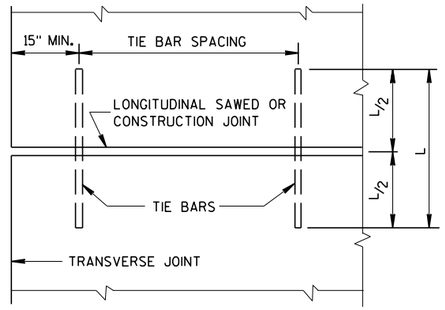
DETAIL "C"

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.



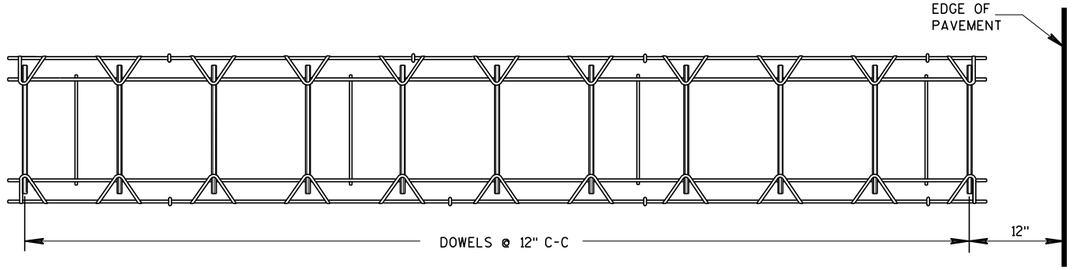
PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT
LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Peter Kemp PE — PAVEMENT SUPE
FHWA

6
S.D.D. 13 C 1-19

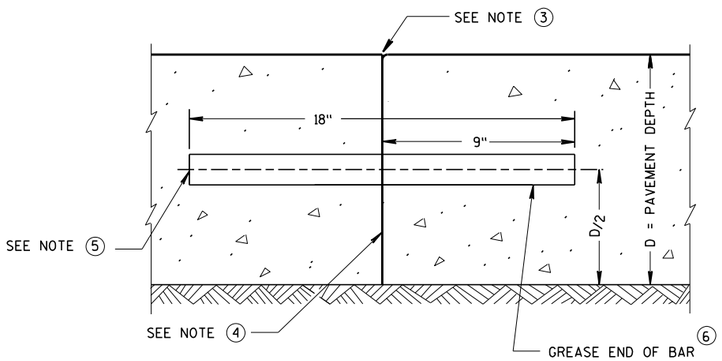


PLAN VIEW

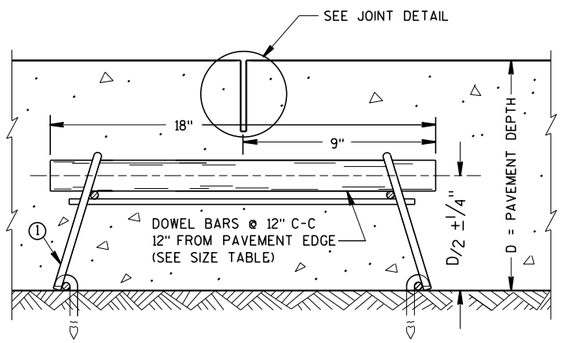


SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①



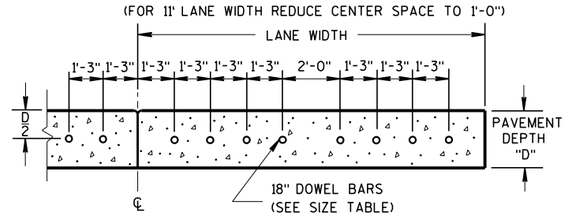
TRANSVERSE CONSTRUCTION JOINT



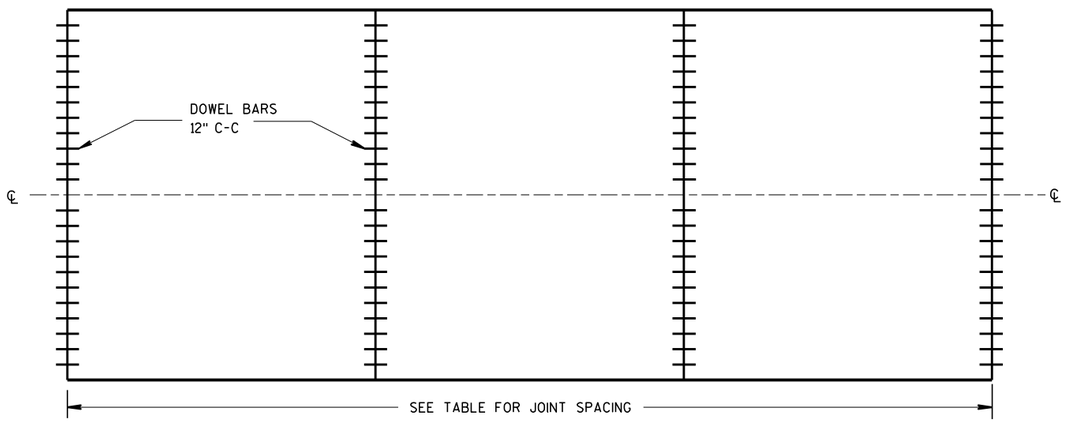
DOWELED CONTRACTION JOINT

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.

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.

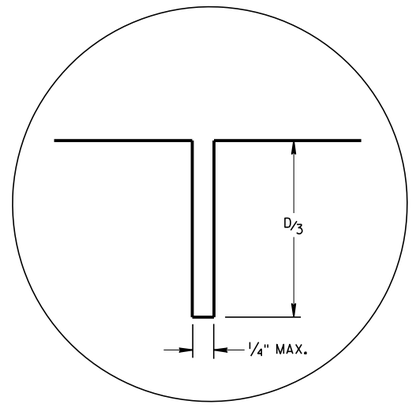
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

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
March 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUP

391

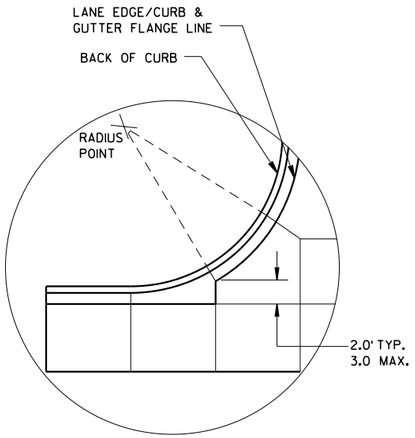
FHWA

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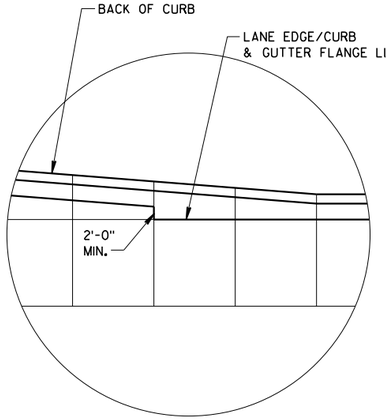
S.D.D. 13 C 13-9

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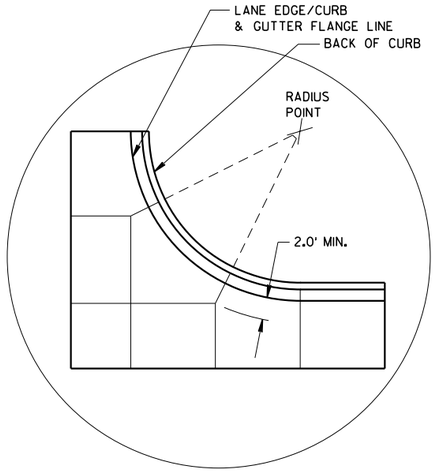
S.D.D. 13 C 13-9



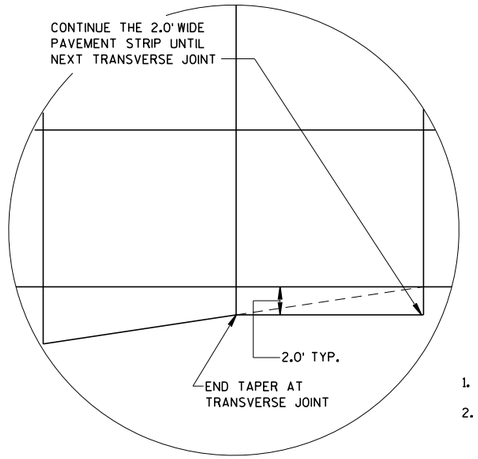
DETAIL "A"



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.

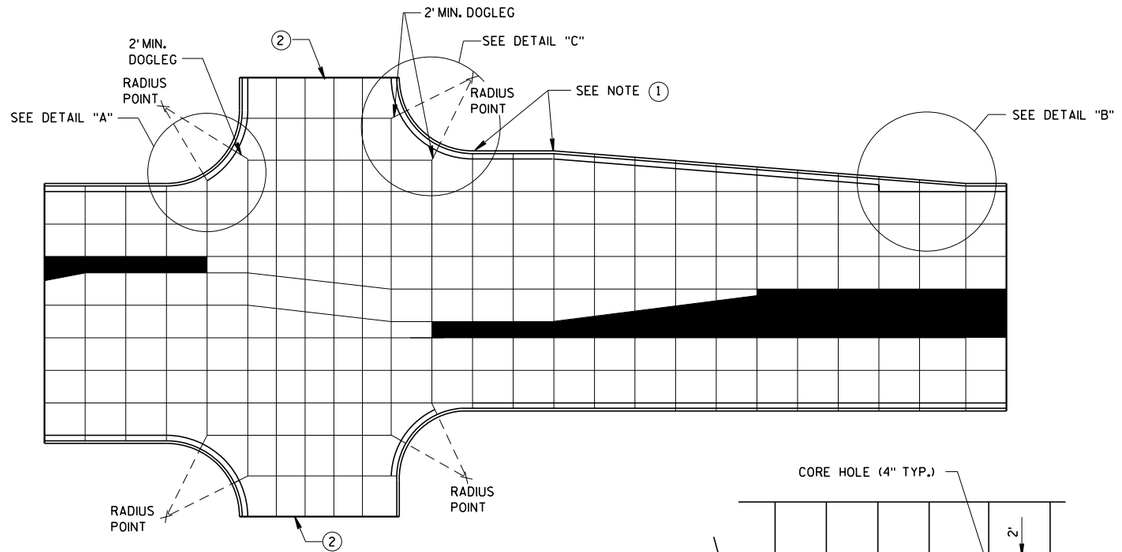
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

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.

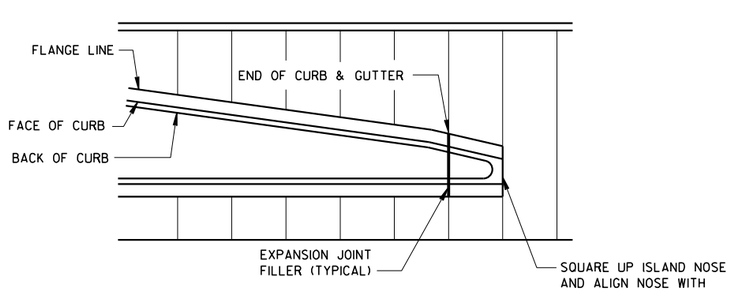
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



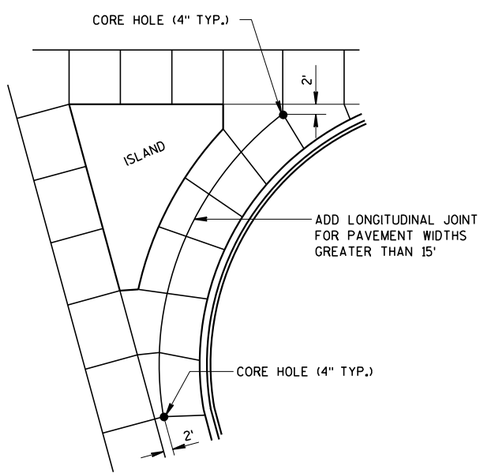
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

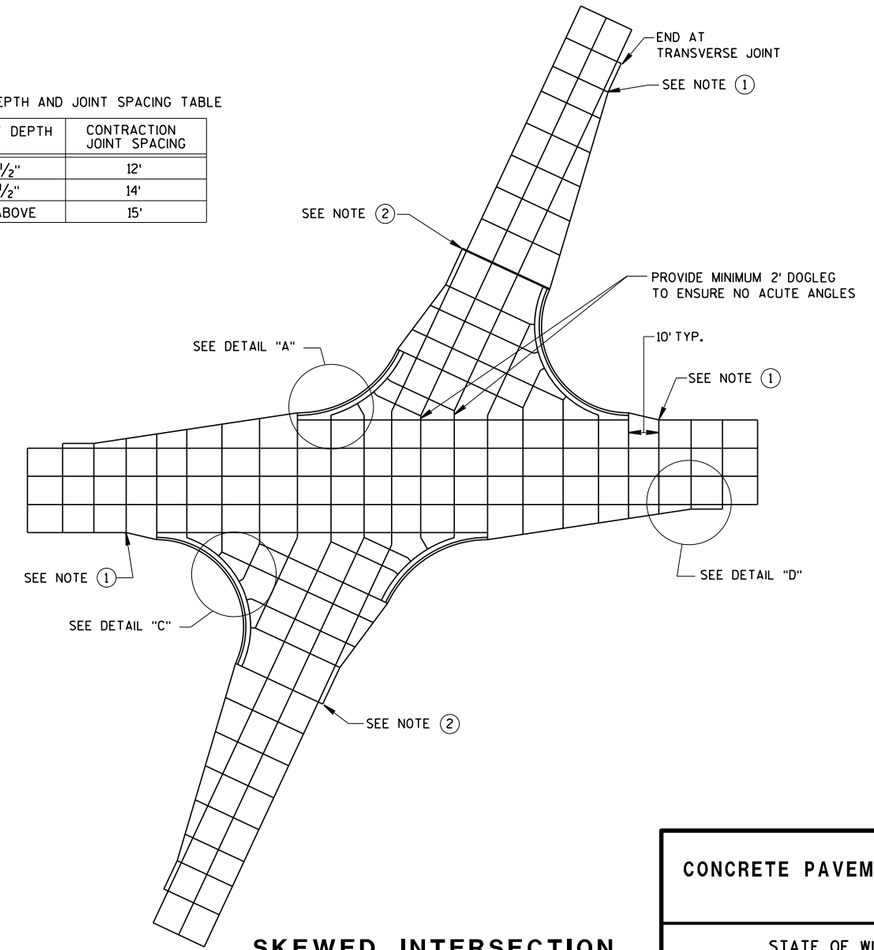
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'



APPROACH TO MEDIAN



LARGE RIGHT TURN



SKEWED INTERSECTION

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

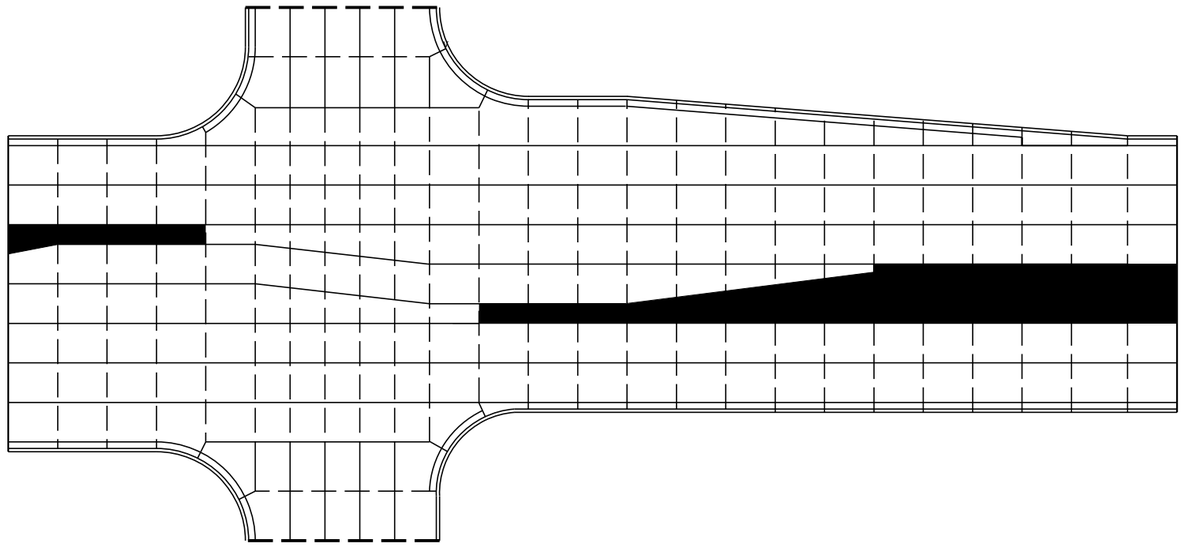
6
S.D.D. 13 C 18-6a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

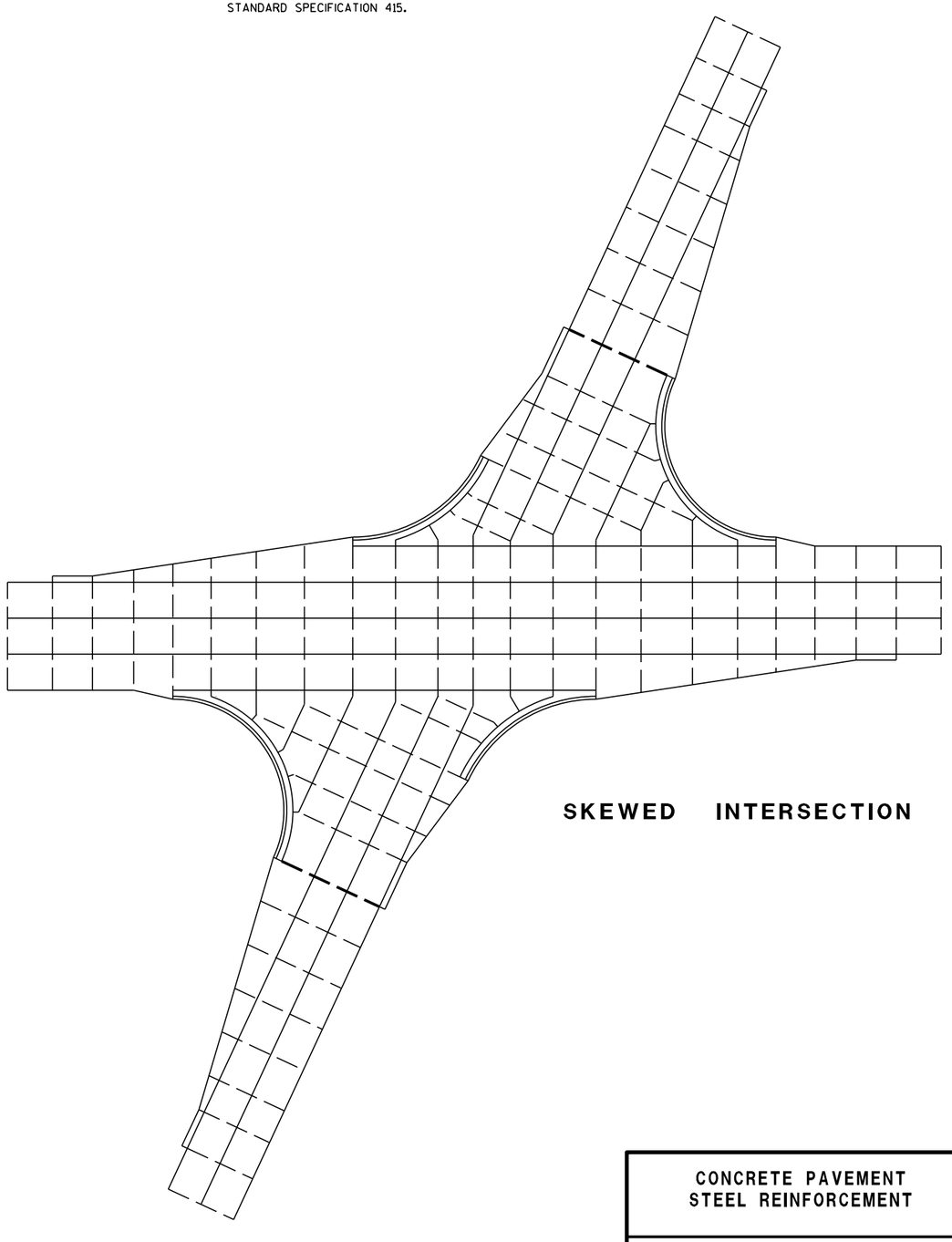
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

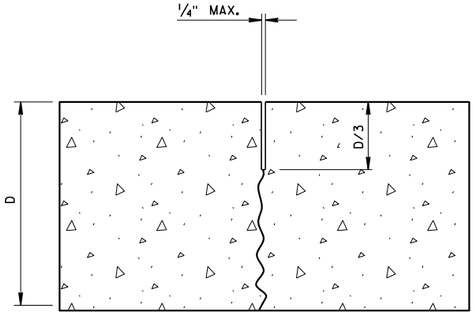
S.D.D. 13 C 18-6b

CONCRETE PAVEMENT
STEEL REINFORCEMENT

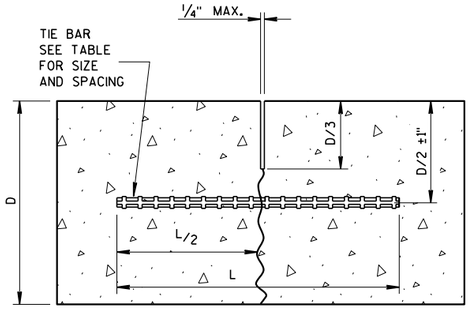
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 13 C 18-6b



UNDOWELED-TRANSVERSE



TIED LONGITUDINAL

TIE BAR TABLE

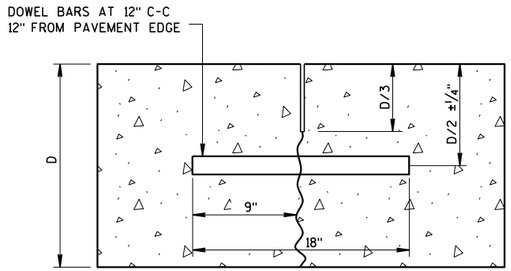
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

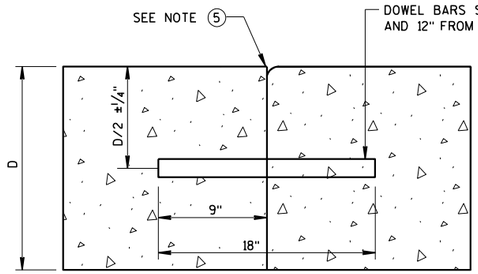
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A 1/4-INCH RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



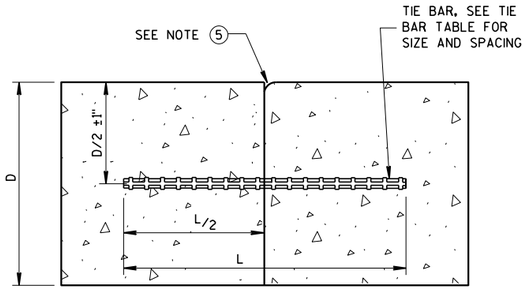
DOWELED-TRANSVERSE

CONTRACTION JOINTS

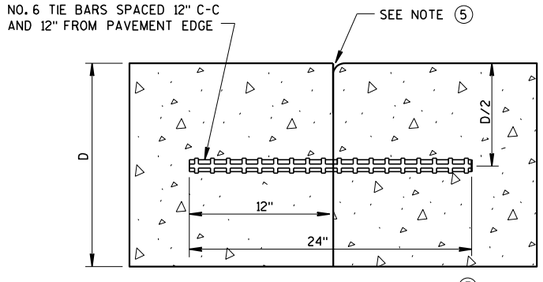
SEE NOTE (2)



DOWELED TRANSVERSE (3)

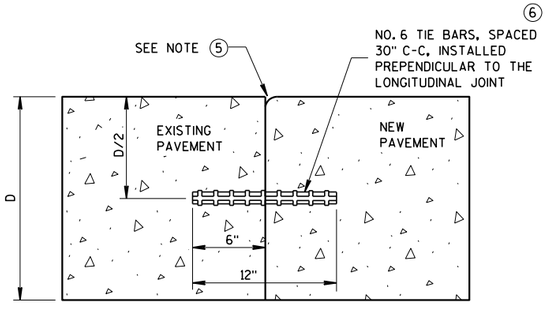


TIED LONGITUDINAL



TIED TRANSVERSE (3)

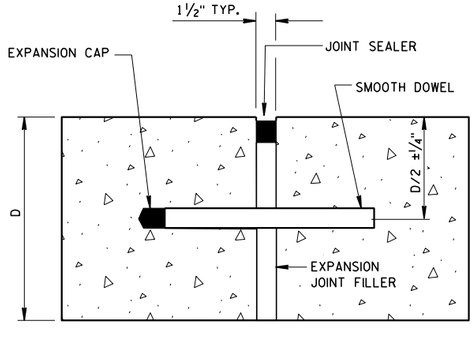
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

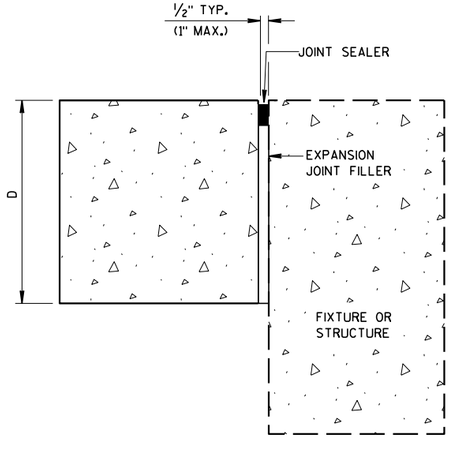
CONSTRUCTION JOINTS

SEE NOTE (4)



DOWELED-TRANSVERSE

SEE NOTE (1)



UNTIED-LONGITUDINAL

EXPANSION JOINTS

6

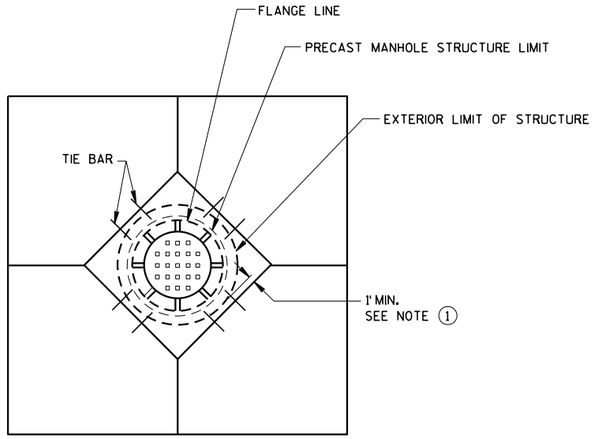
S.D.D. 13 C 18-6c

CONCRETE PAVEMENT
JOINT TYPES

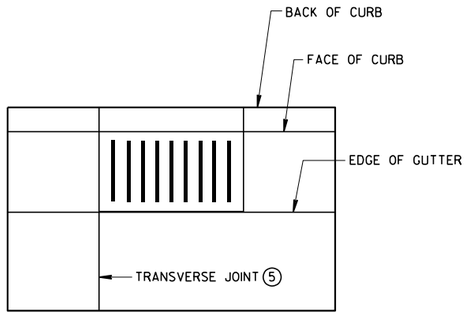
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

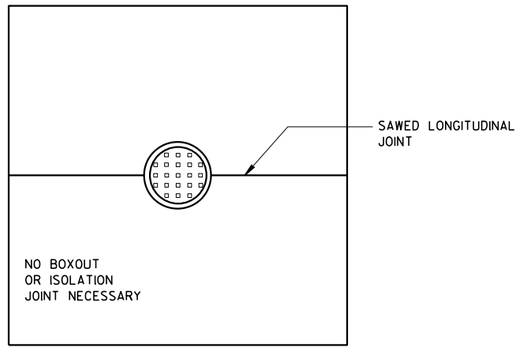
S.D.D. 13 C 18-6c



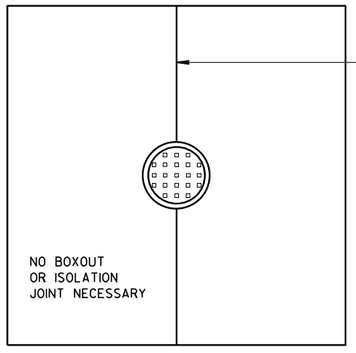
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



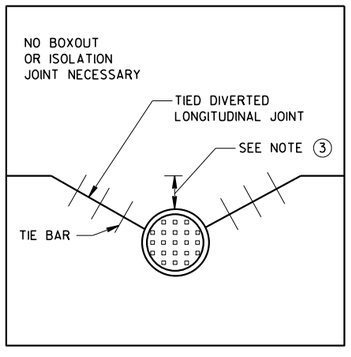
INLET WITH TRANSVERSE JOINT



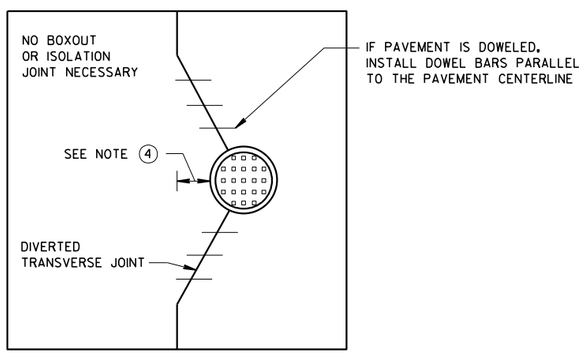
MANHOLE WITH LONGITUDINAL JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

GENERAL NOTES

(1) USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1-FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.

(2) ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.

(3) IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDIAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(4) IF DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

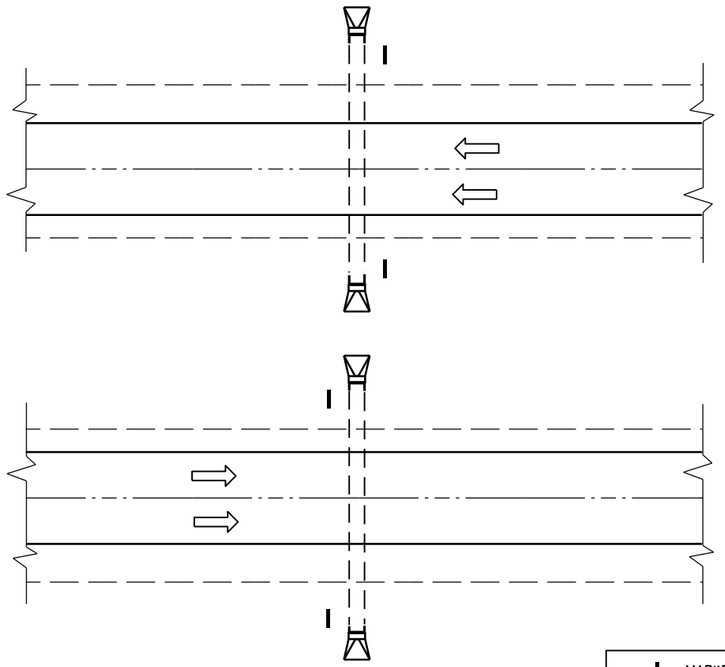
CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Peter K... P.E. — PAVEMENT SUPT
FHWA

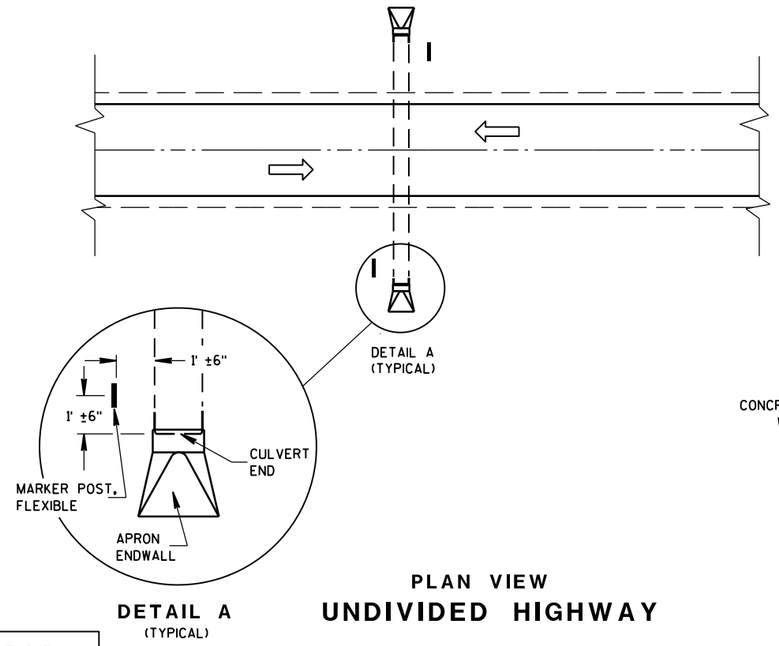
6

S.D.D. 13 C 18-6d



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

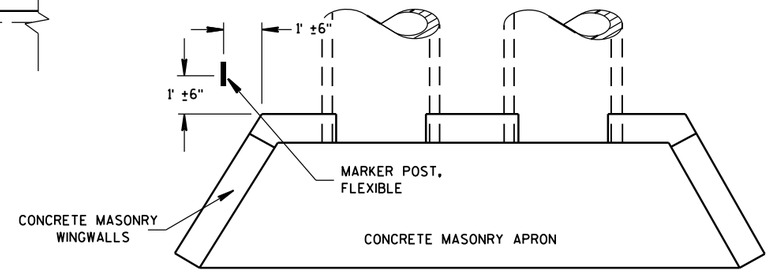
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

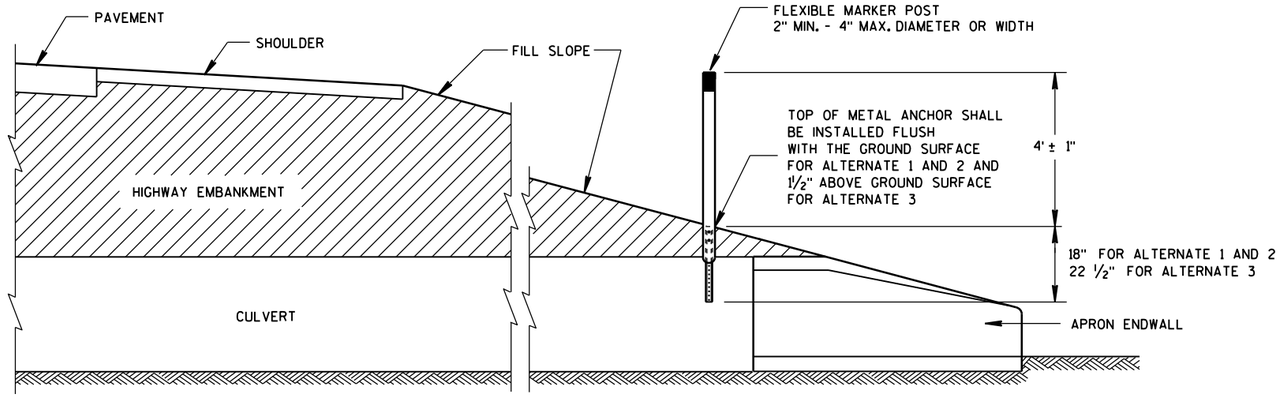
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

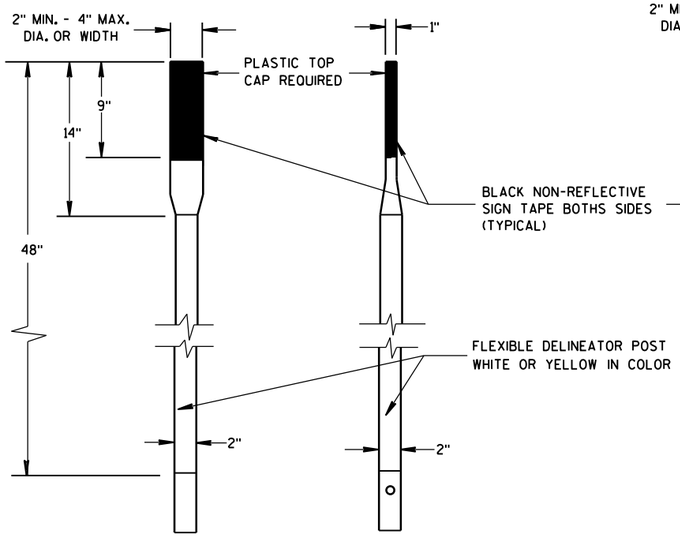
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

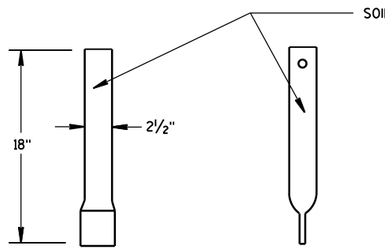
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S.D.D. 15 A 3-2a

6

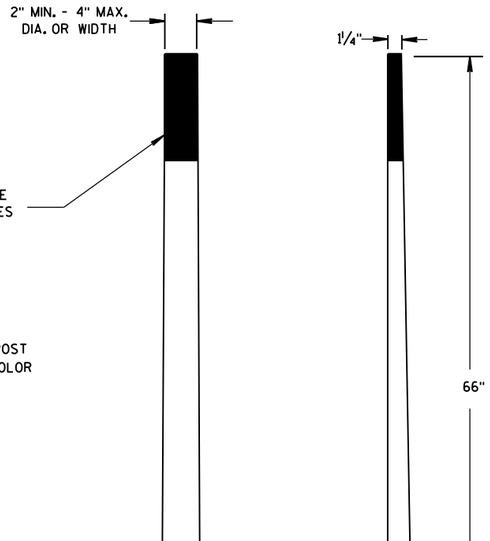
S.D.D. 15 A 3-2a





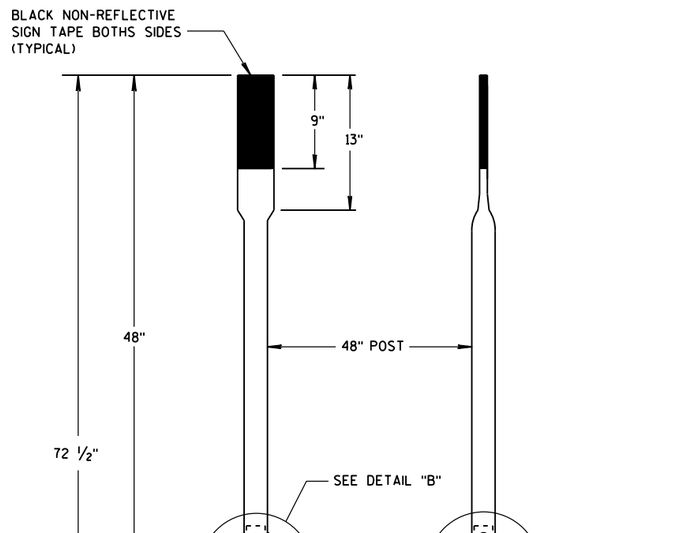
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

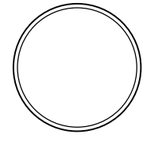
ALTERNATE 2



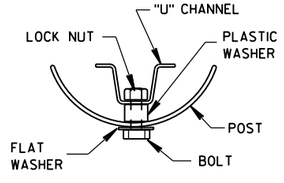
FRONT VIEW SIDE VIEW

ALTERNATE 3

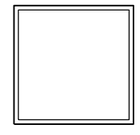
FLEXIBLE MARKER POSTS



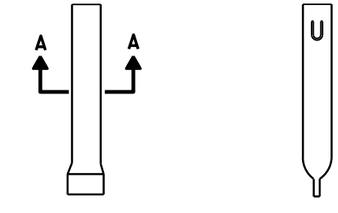
SECTION A-A



SECTION B-B

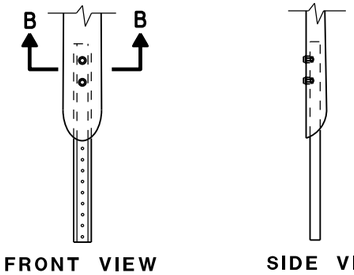


SECTION C-C



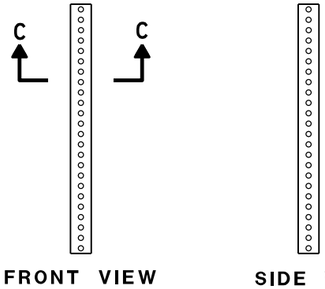
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

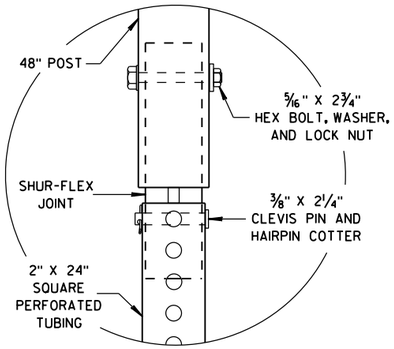
ALTERNATE 2



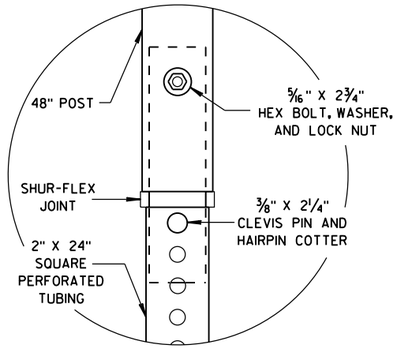
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

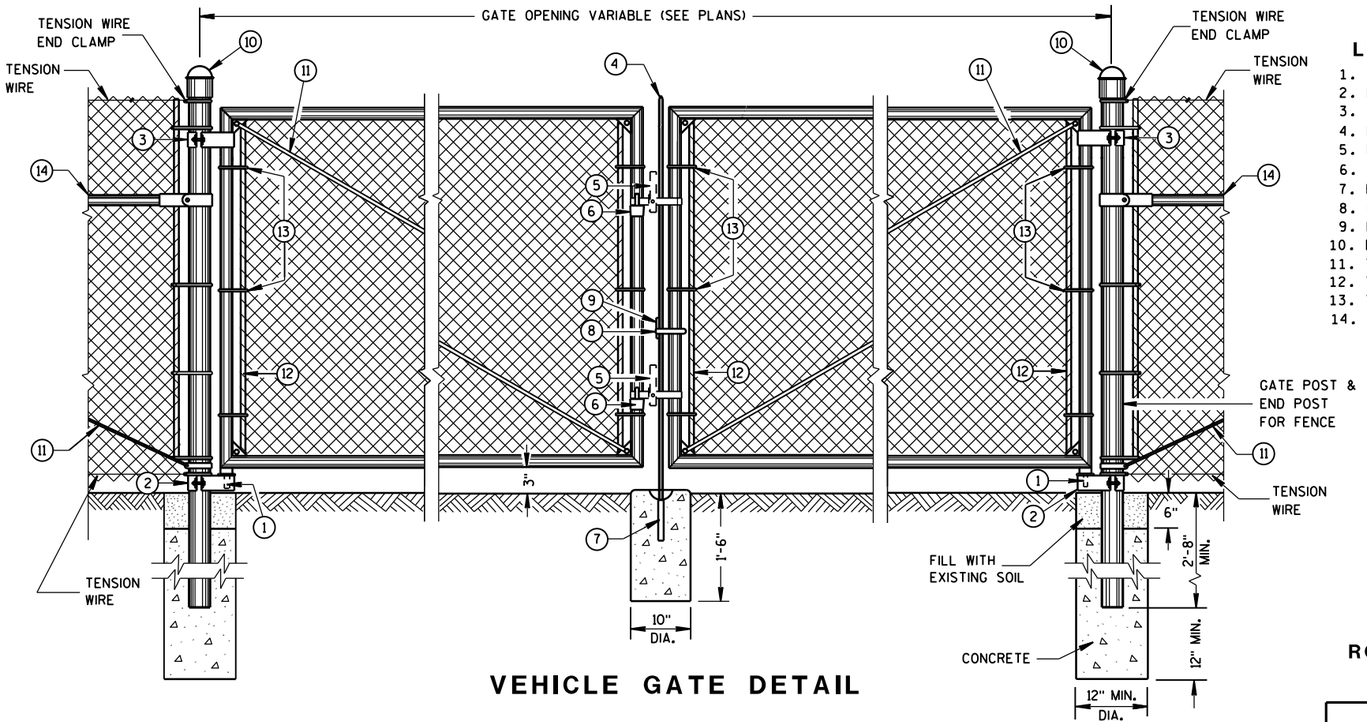
APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

6

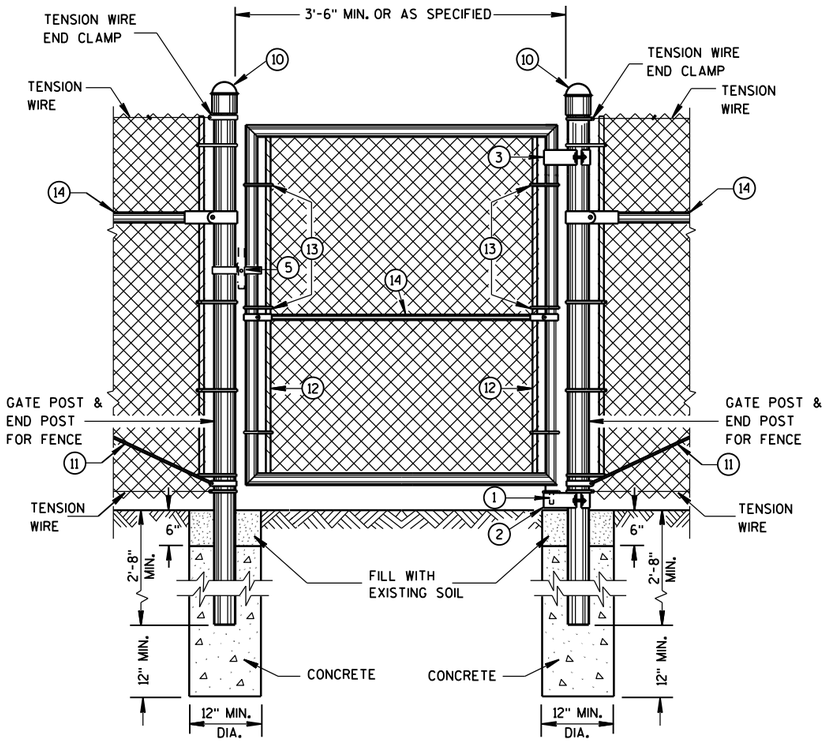
S.D.D. 15 A 3-2b

6

S.D.D. 15 A 3-2b



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

LEGEND

1. STRAIGHT PLUG
2. BOTTOM HINGE
3. TOP HINGE
4. PLUNGER ROD
5. FULCRUM LATCH
6. FORK CATCH *
7. PLUNGER ROD CATCH
8. LOCK KEEPER GUIDE
9. LOCK KEEPER
10. DOME TOPS
11. TRUSS RODS
12. TENSION BAR
13. TENSION BANDS
14. BRACE RAIL

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

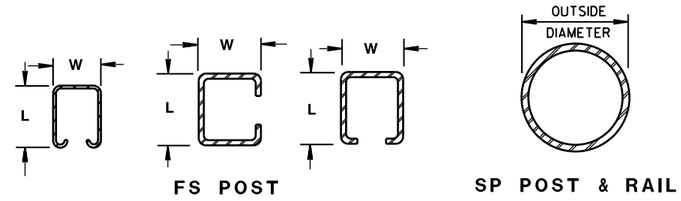
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.

USE TYPE 2, CLASS 3, MARCELLED/CRIMPED, TENSION WIRE PER ASTM A 817.



CROSS SECTIONS OF POSTS AND RAILS

REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL POSTS **	LESS THAN OR EQUAL TO 6 FT.	SP3
	GREATER THAN OR EQUAL TO 6 FT.	SP4
LINE POSTS	LESS THAN OR EQUAL TO 6 FT.	SP2
	LESS THAN OR EQUAL TO 8 FT.	SP3
	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EQUAL TO 8 FT.	FS3

BRACE RAIL TYPES

USE		TYPE
BRACE RAIL		SP1 OR FS1

** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

ROLLED-FORMED STEEL FENCE POST (2.0 OZ./SQ. FT. COATING)

POST TYPE	LENGTH (L) INCH	WIDTH (W) INCH	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

REQUIRED POST SIZE FOR GATES

USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EQUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EQUAL TO 23 FT.	SP7

ROUND STEEL FENCE POST (1.8 OZ./SQ. FT. COATING)

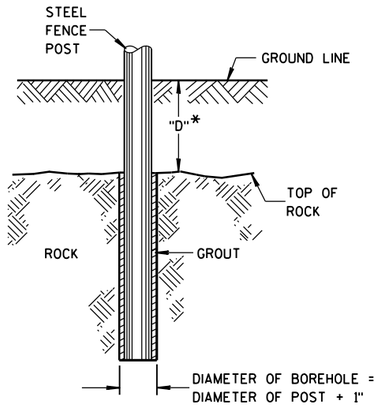
POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

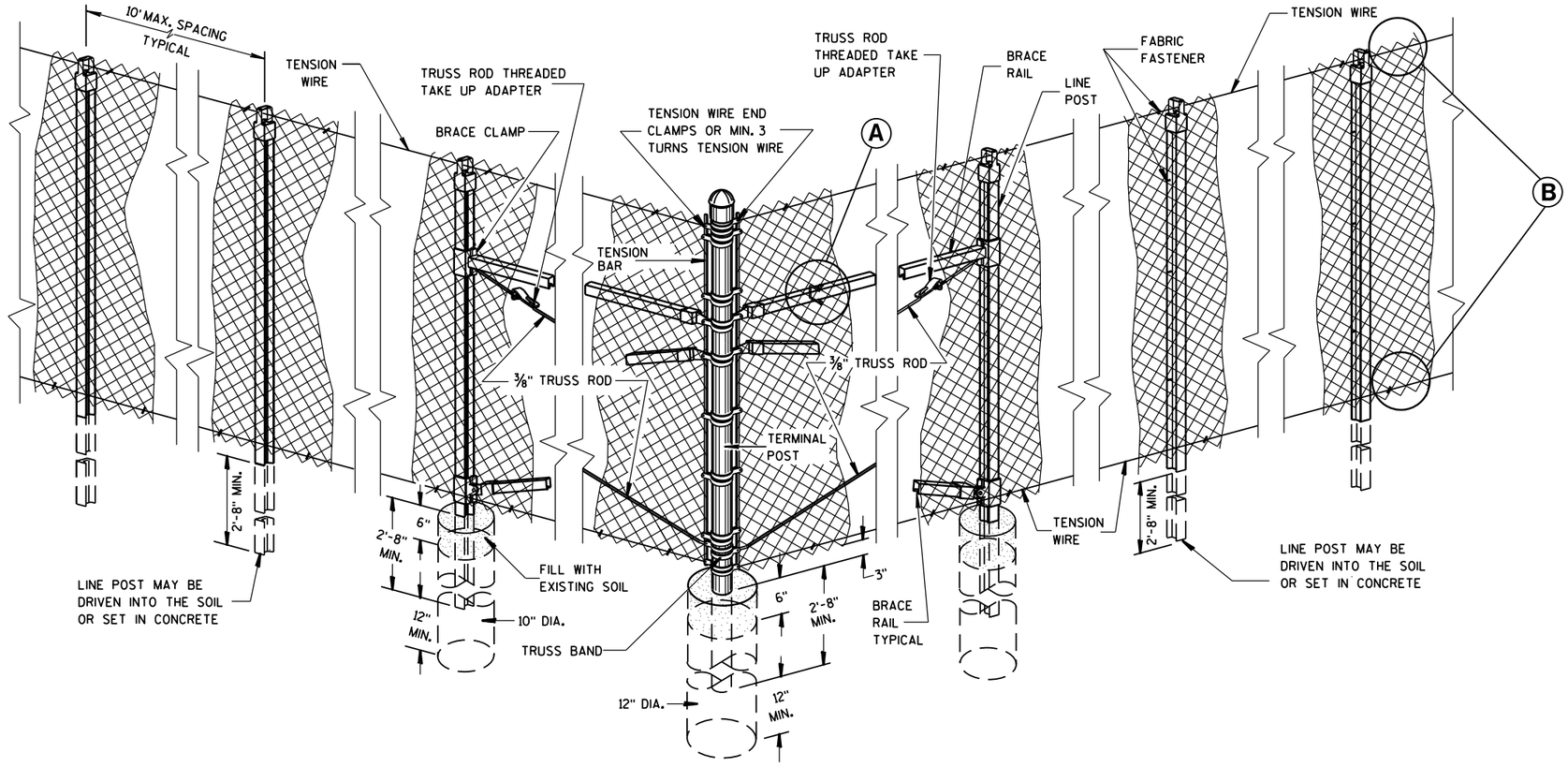
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S.D.D. 15 B 3-15a

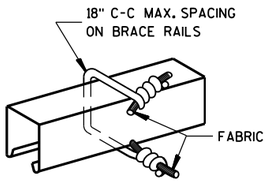


*IF "D" IS LESS THAN 2'-6", DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST



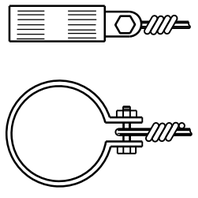
END, CORNER, ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS



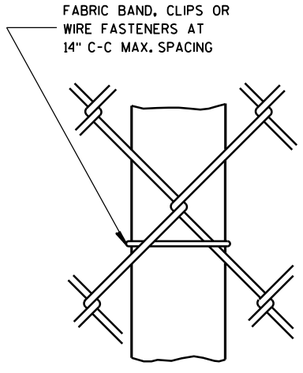
BRACE RAIL

FABRIC FASTENER

Ⓐ



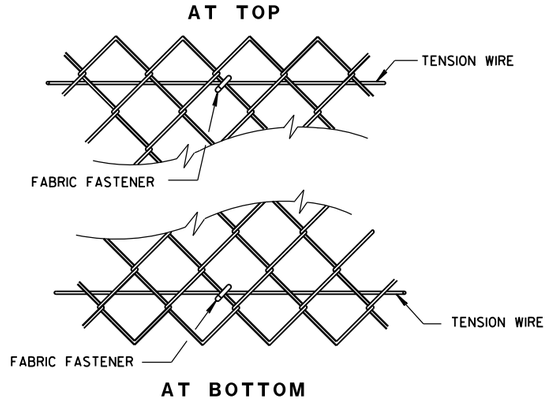
TENSION WIRE END CLAMP



LINE POST

FABRIC FASTENER

AT TOP



AT BOTTOM

SELVAGES

Ⓑ

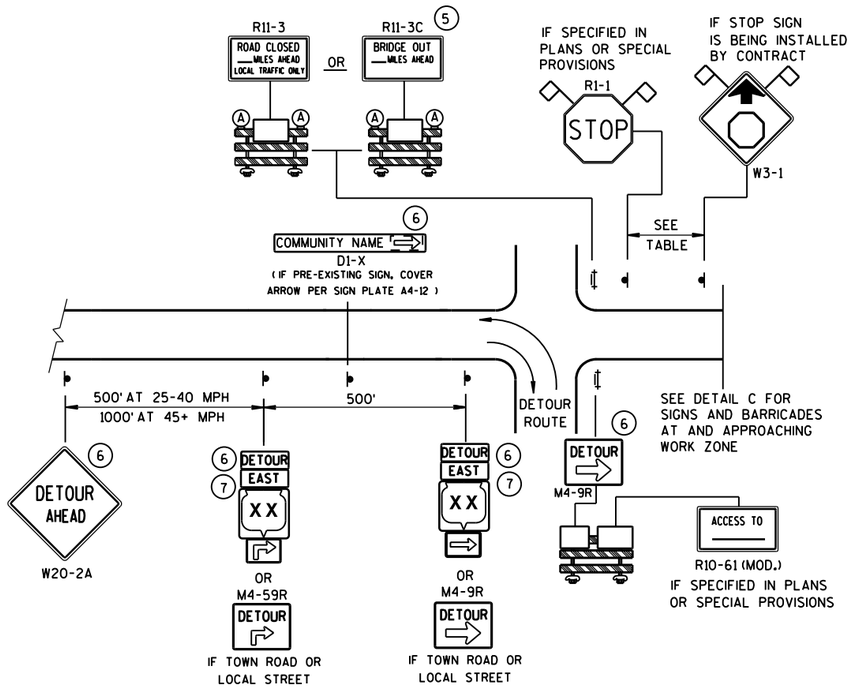
FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
FEB. 2015 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

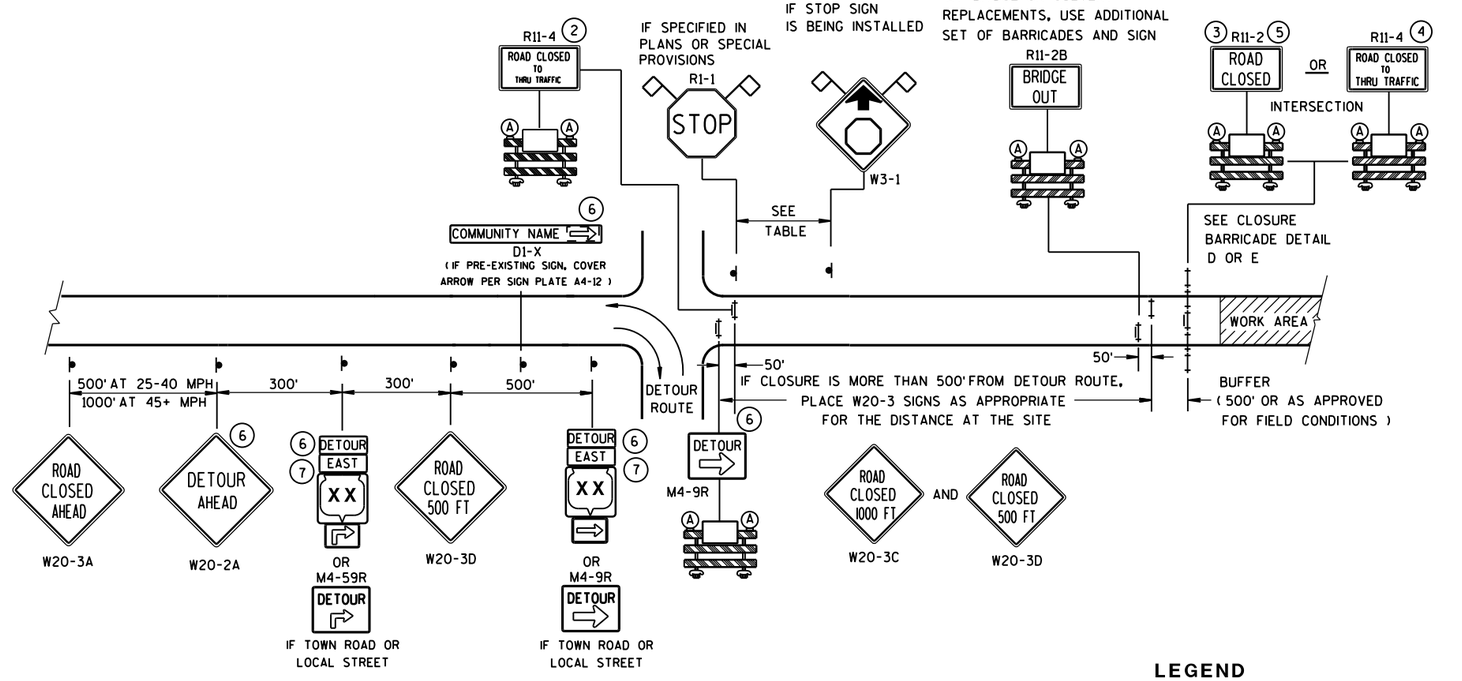
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S.D.D. 15 B 3-15b



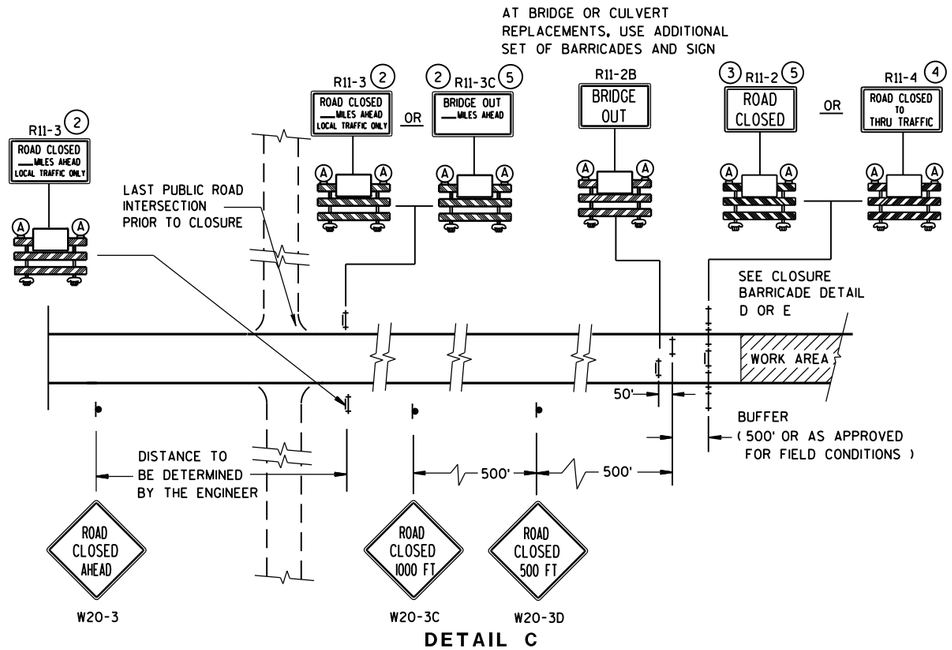
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "**b**"
FOR GENERAL NOTES
AND FOOTNOTES (1) THROUGH (7)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

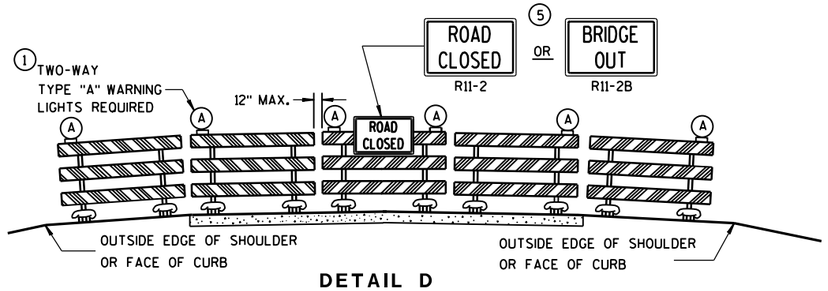
FHWA

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S.D.D. 15 C 2-6a

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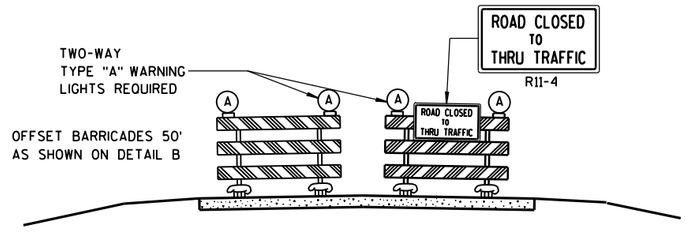
S.D.D. 15 C 2-6a



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

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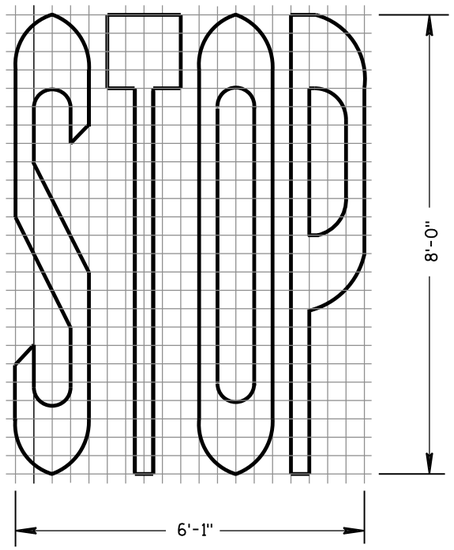
S.D.D. 15 C 2-6b

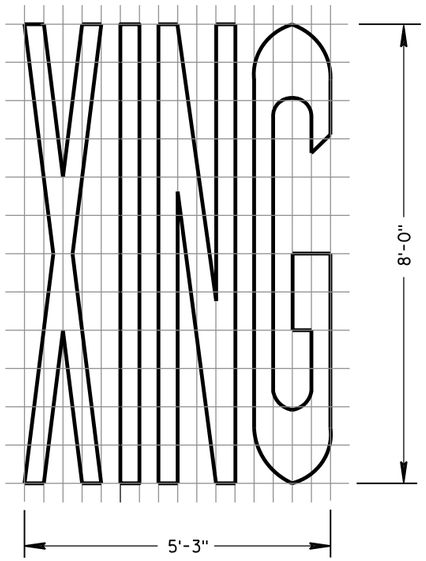
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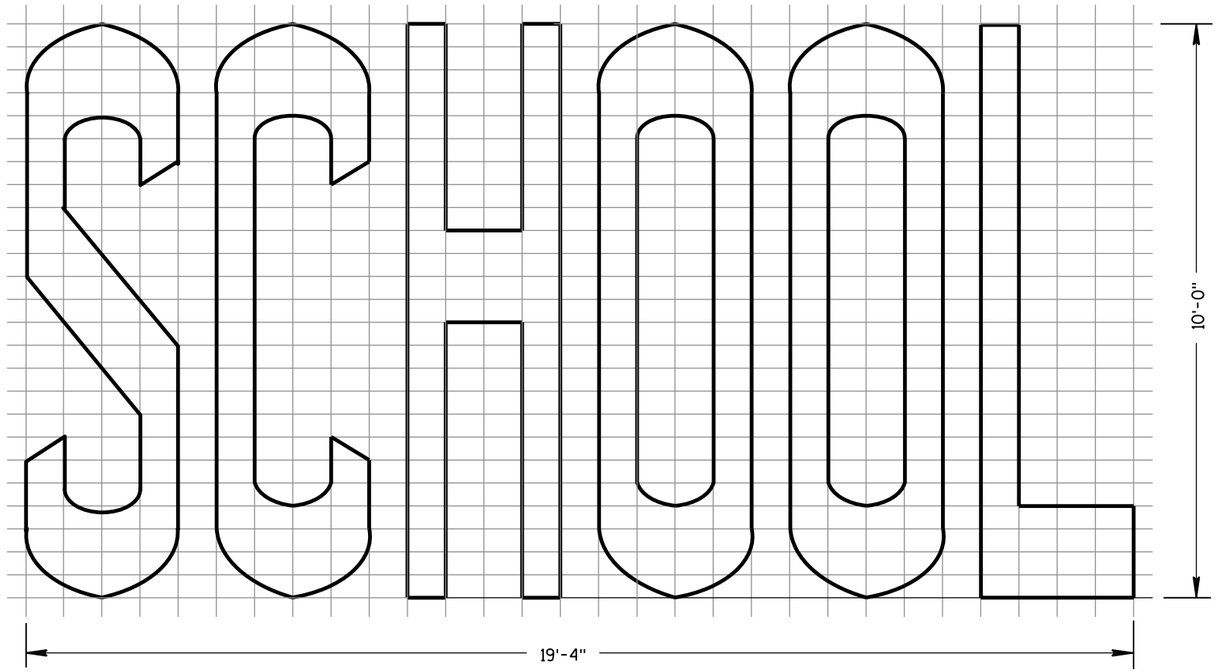
S.D.D. 15 C 2-6b

GENERAL NOTES

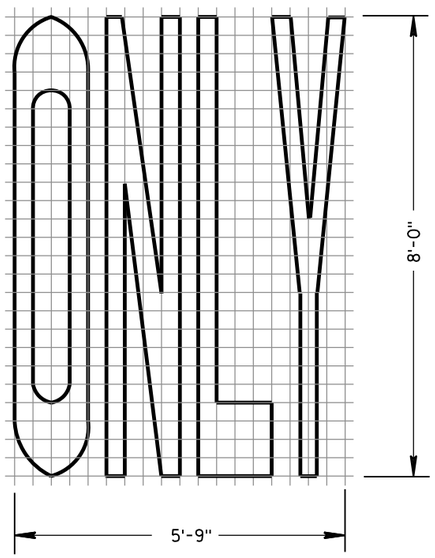
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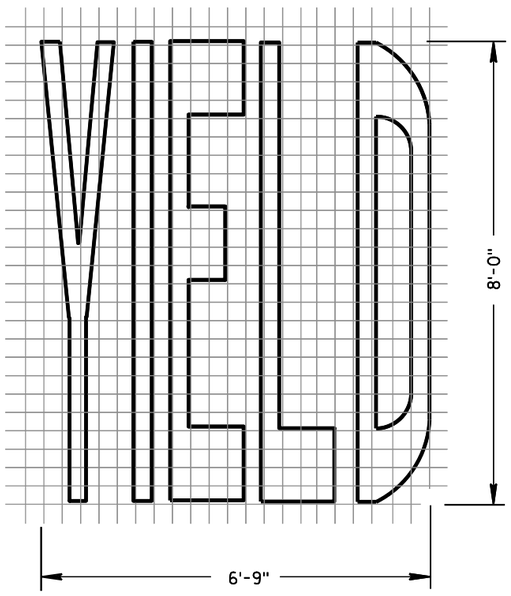


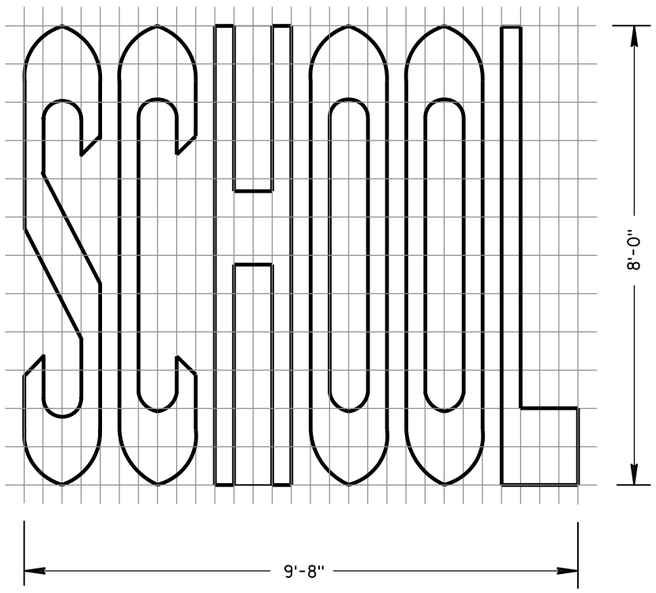




TWO-LANE







SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARK
EER
FHWA

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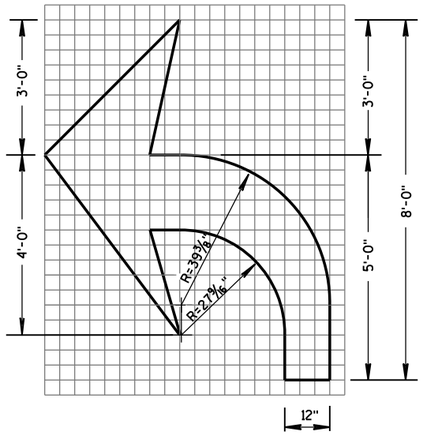
S.D.D. 15 C 7-14b

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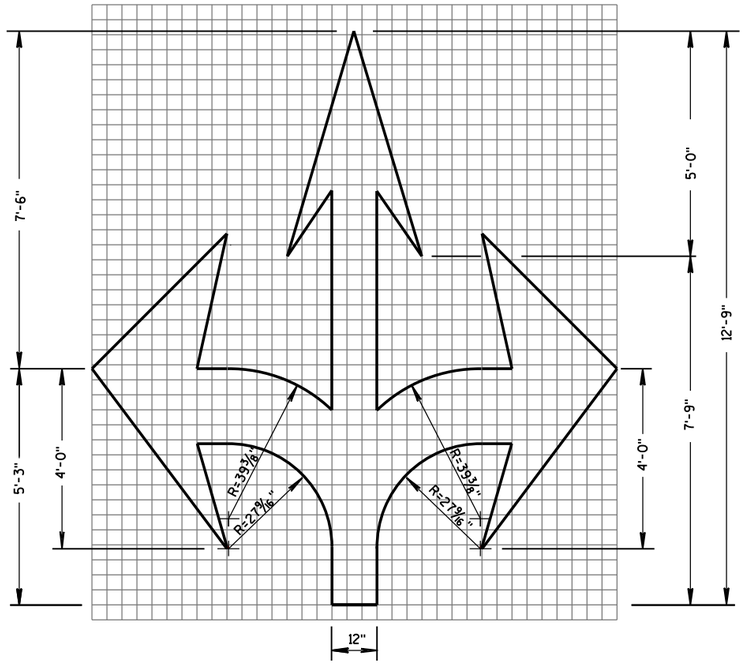
S.D.D. 15 C 7-14b

GENERAL NOTES

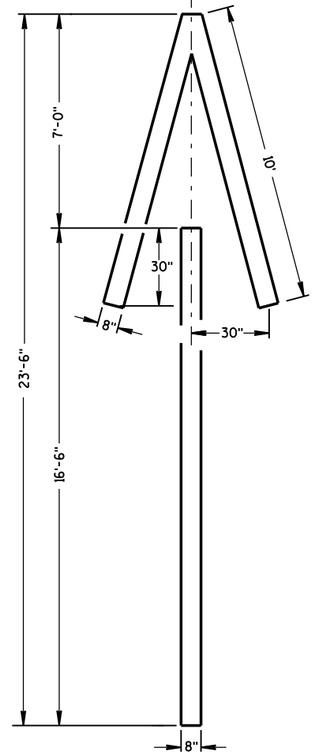
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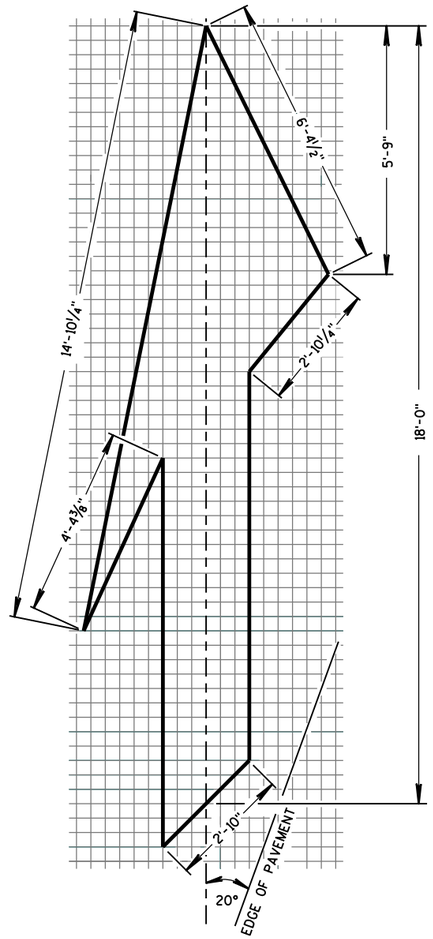
TYPE 2



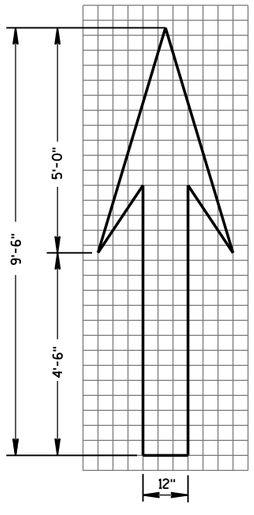
TYPE 6



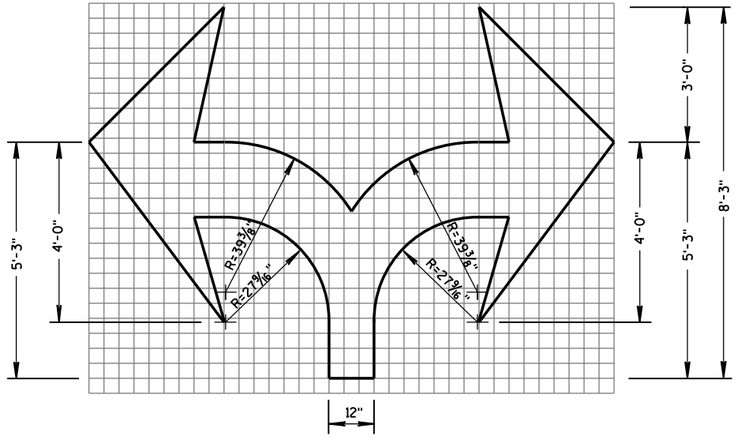
TYPE 4



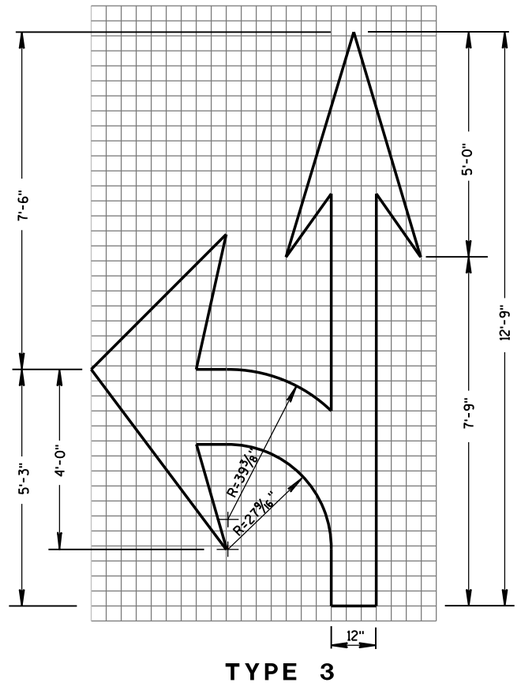
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

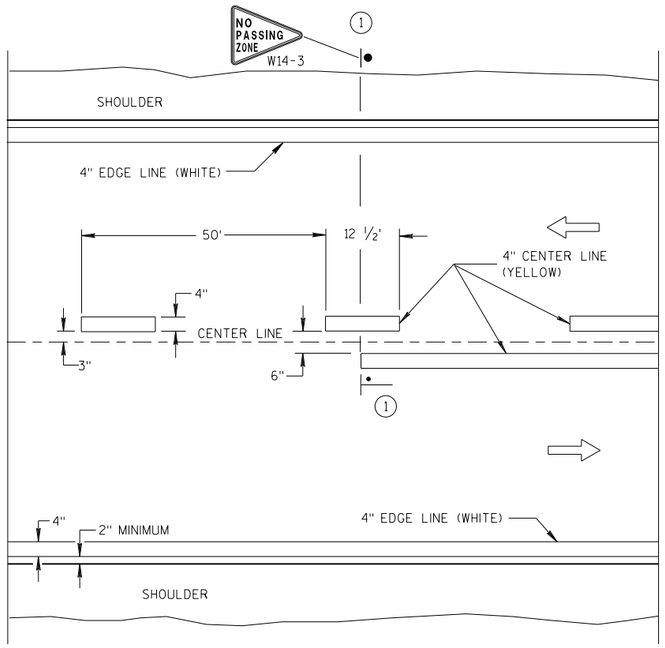
APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MAR[illegible]NEER
FHWA

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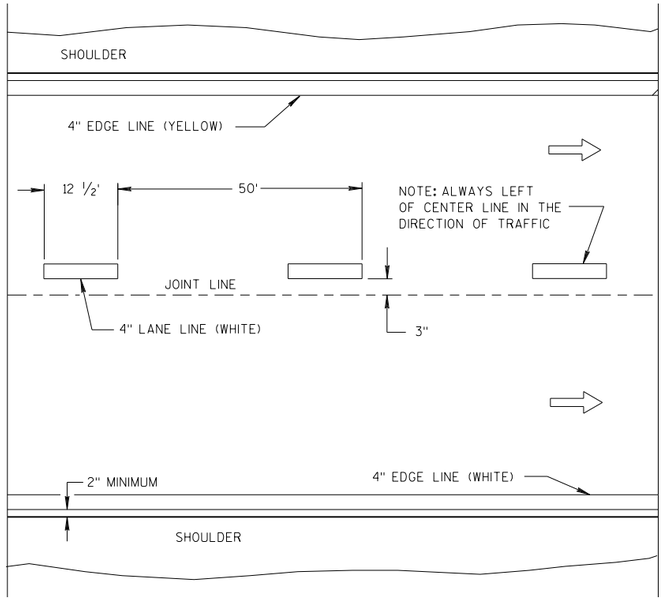
S.D.D. 15 C 7-14c

6

S.D.D. 15 C 7-14c



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

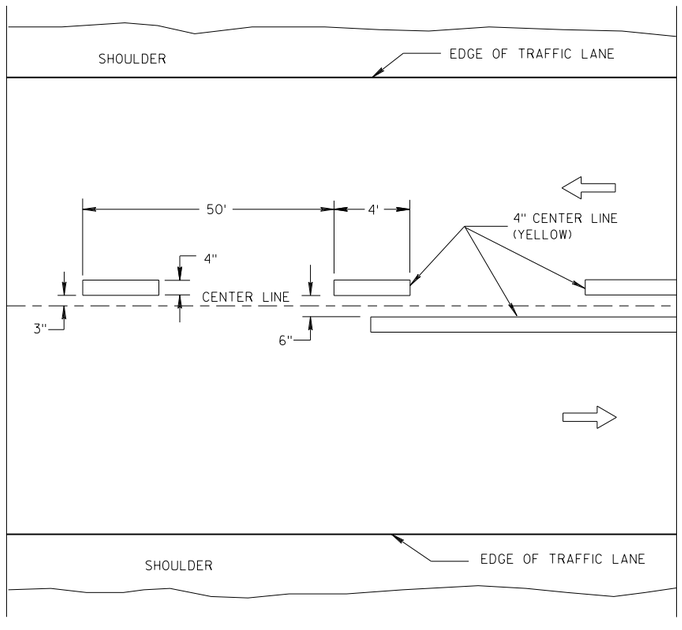
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

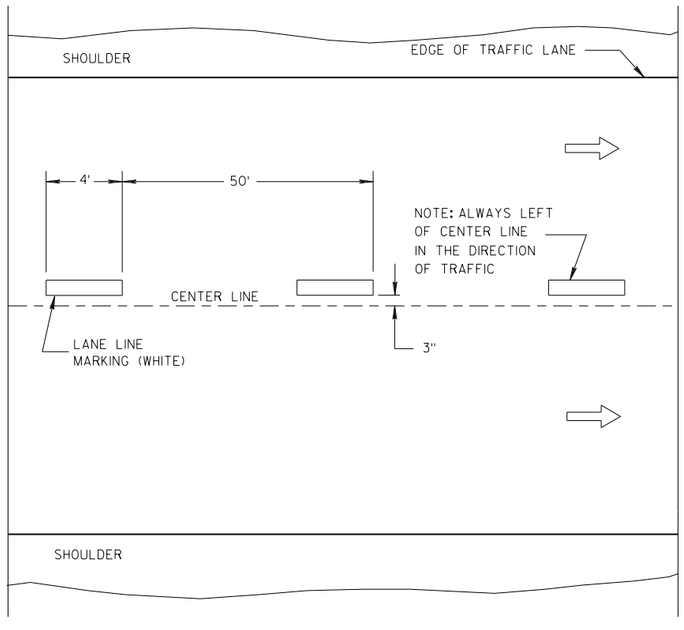
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER

FHWA

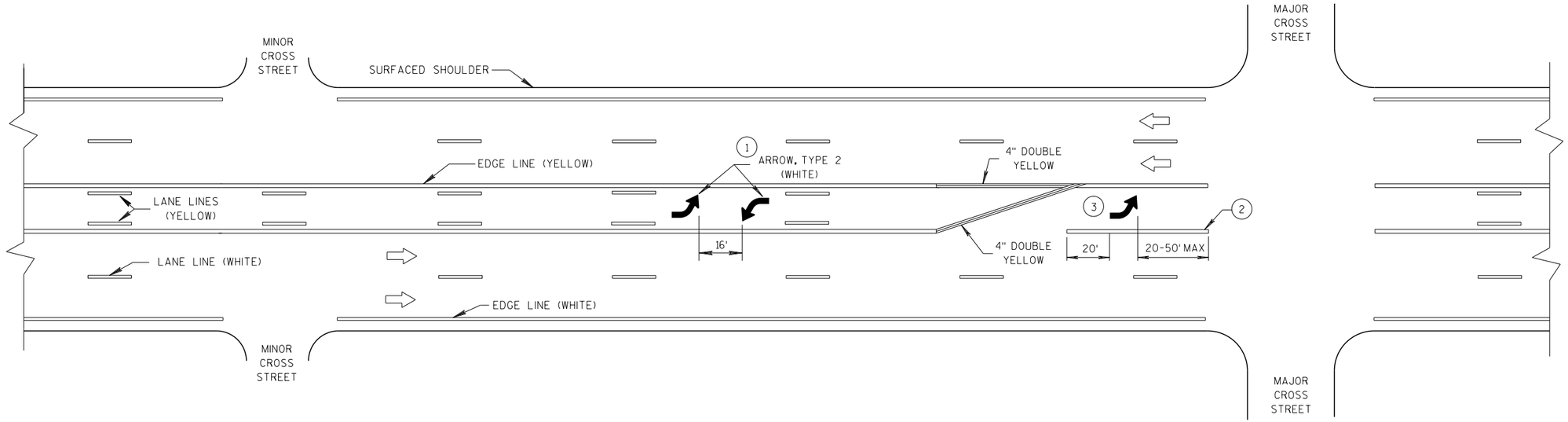
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S.D.D. 15 C 8-19a

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 8" WHITE
3. TURN BAY LENGTH OF LESS THAN 48'DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT

DIRECTION OF TRAFFIC

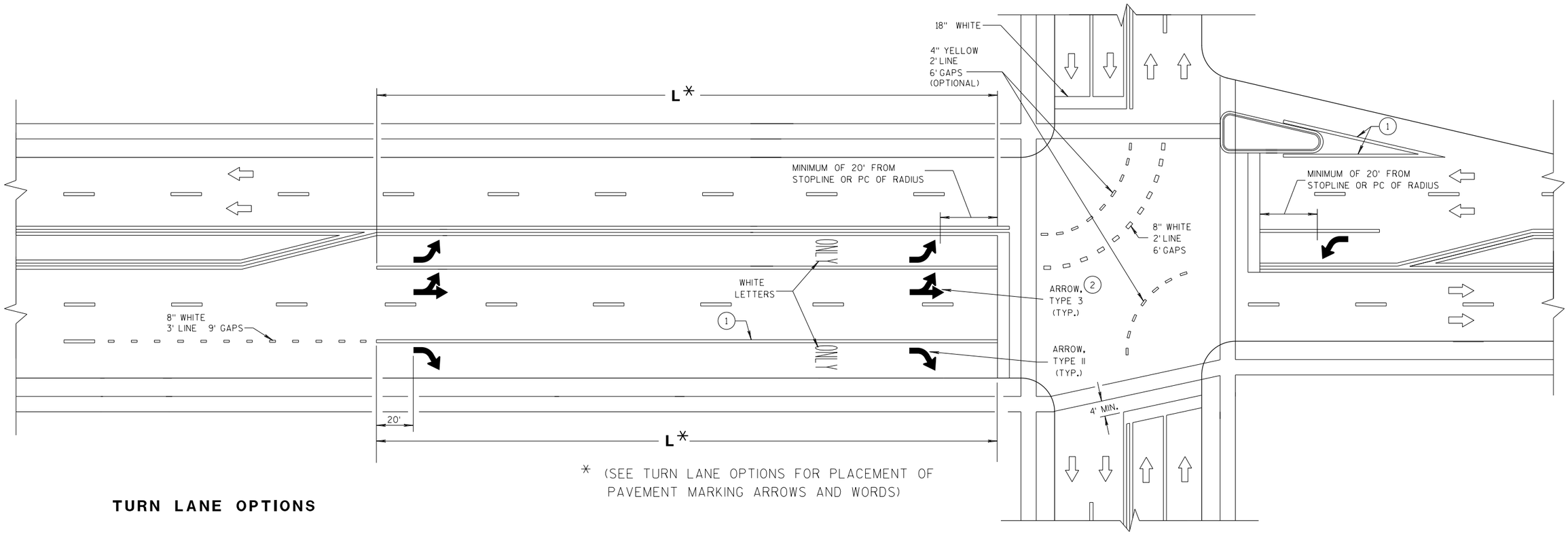


TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

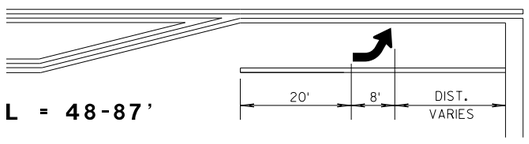
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S.D.D. 15 C 8-19b



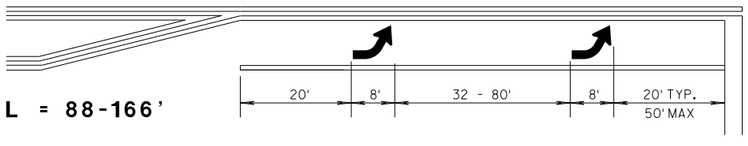
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

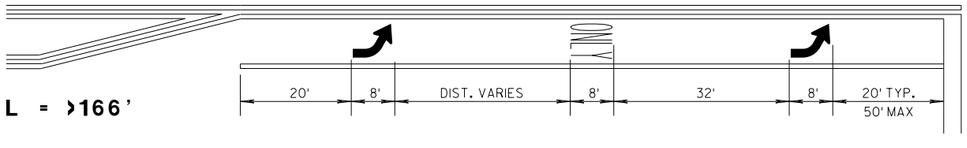
LENGTH OF TURN BAY (**L**) OF 0-47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48-87'



L = 88-166'



L = >166'

GENERAL NOTES

1. 8" WHITE
2. QUANTITY AND LOCATION OF TYPE 3 ARROW ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION, THE ARROWS AND ONLY MARKING ARE ELIMINATED.

⇨ DIRECTION OF TRAFFIC

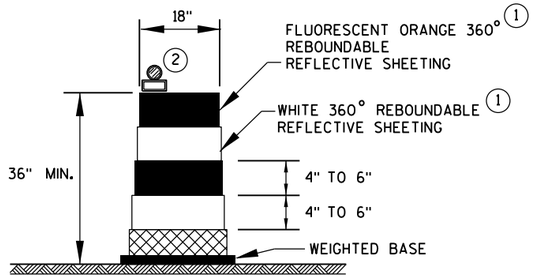
L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

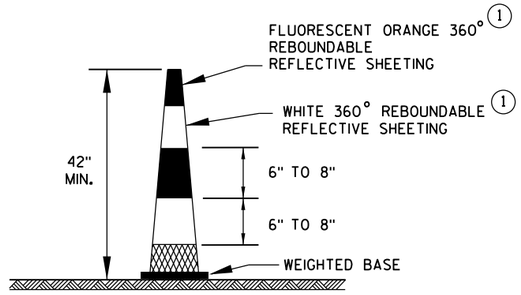
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORT

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S.D.D. 15 C 8-19c



DRUM

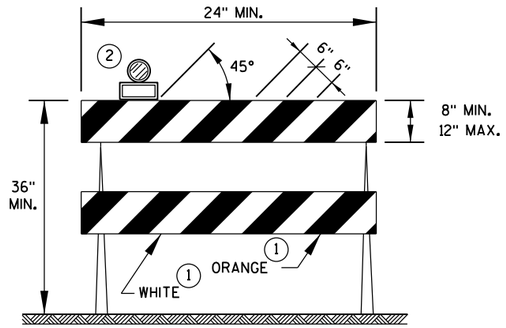


42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

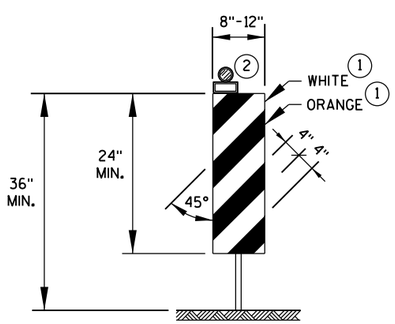
GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



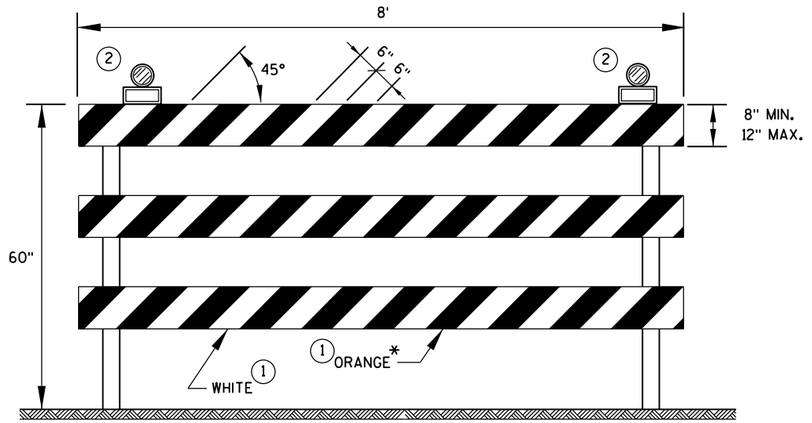
TYPE 2 BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE 3 BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION, USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
June 2017 DATE	/S/ Andrew Heidtke WORK ZONE ENG
FHWA	407

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S.D.D. 15 C 11-7b

GENERAL NOTES

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR ROD STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER FABRICATION DRAWING.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

SIGN SUPPORTS SHALL BE LOCATED NORMAL TO ROADWAY.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

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

BAR CAGE TO BE ASSEMBLED USING TIE WIRES ONLY, NO WELDING.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACK FILLING AROUND THE BASE. ANY REQUIRED BACKFILL SHALL BE WELL COMPACTED IN LAYERS OF 1 FOOT OR LESS. COMPACTION SHALL BE BY MECHANICAL MEANS. CARE SHALL BE TAKEN SO NO DAMAGE OCCURS TO THE CONCRETE BASE DURING COMPACTION.

EXCAVATION OF MATERIALS NOT OCCUPIED BY CONCRETE SHALL BE MINIMIZED TO REDUCE DISTURBANCE OF THE SURROUNDING SOILS.

THE BOTTOM OF THE DRILLED HOLE SHALL BE FIRM AND THOROUGHLY CLEANED SO NO LOOSE OR COMPRESSIBLE MATERIALS ARE PRESENT AT THE TIME OF THE CONCRETE PLACEMENT.

IF THE DRILLED HOLE CONTAINS STANDING WATER, THE CONCRETE SHALL BE PLACED USING A TREMIE TO DISPLACE THE WATER.

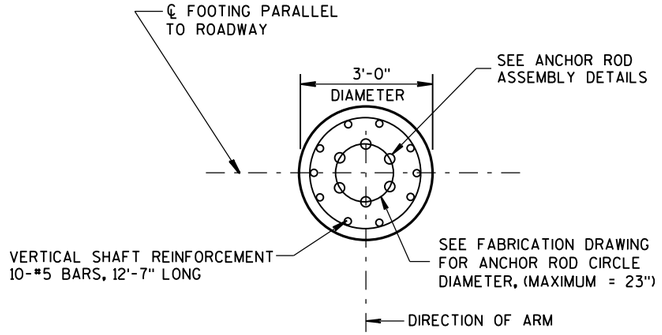
THE REINFORCEMENT AND ANCHOR RODS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

FORM ALL EXPOSED CONCRETE CORNERS WITH ¾" CHAMFER ALL AROUND. TOP OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

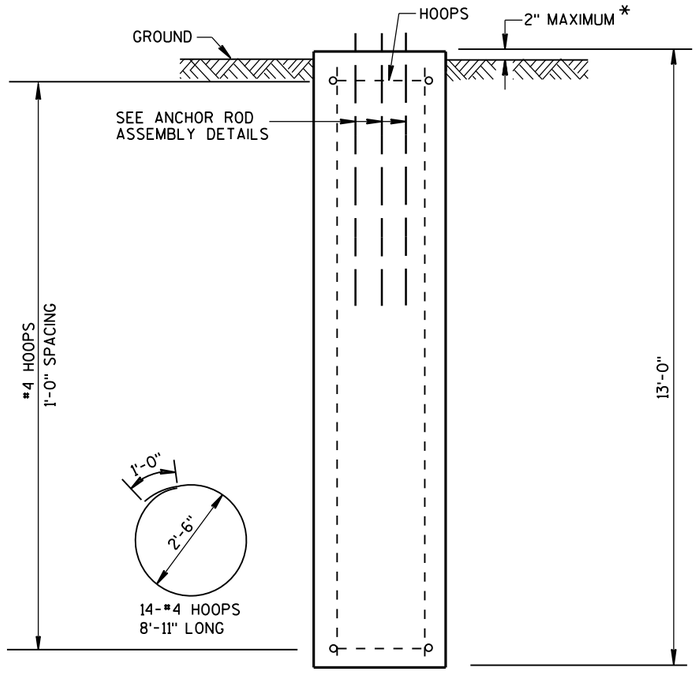
ANY DAMAGE TO THE CONCRETE BASE AND ANCHOR RODS DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, ASTM F1554, GRADE 55	fy=55,000 p.s.i.
ASTM A563A HEAVY HEX NUTS, AND ASTM F436 WASHERS.	
PLATES, ASTM A709, GRADE 36	fy=36,000 p.s.i.

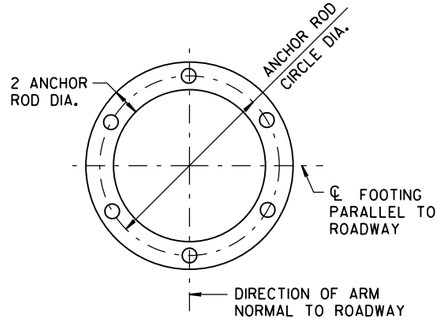
THIS FOOTING HAS BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 20 DEGREES (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 350 PSF (COHESIVE SOILS).



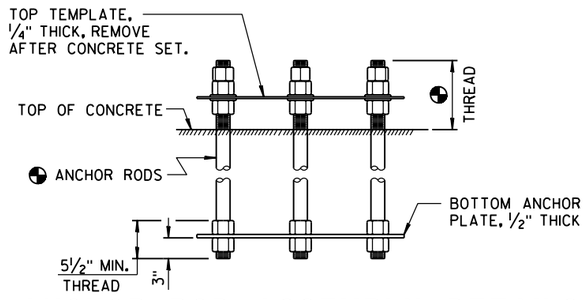
PLAN VIEW



ELEVATION VIEW



TOP TEMPLATE AND BOTTOM ANCHOR PLATE



ANCHOR ROD ASSEMBLY DETAILS

⊕ MINIMUM OF 6 ANCHOR RODS, EXACT NUMBER, SIZE, DIMENSION AND ORIENTATION AS SHOWN ON FABRICATION DRAWING.

* FOR OVERHEAD SIGN SUPPORTS THAT ARE INSTALLED ADJACENT TO SIDEWALKS, THE TOP OF THE BASE SHALL BE POURED FLUSH WITH THE GROUND.

CONCRETE - 3.4 C.Y. PER FOOTING
H.S. REINFORCEMENT - 215 LBS. PER FOOTING

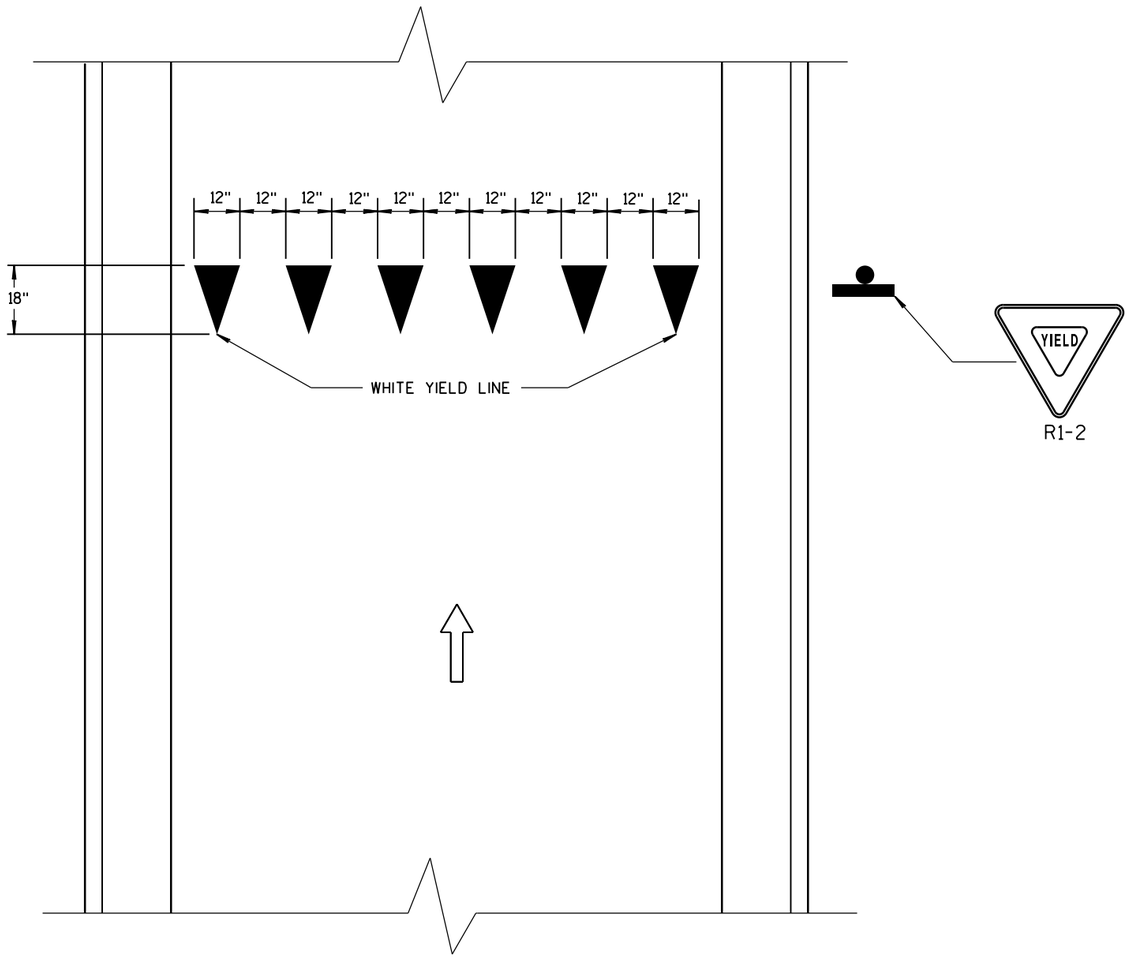
36" DIAMETER FULL SPAN OVERHEAD SIGN SUPPORT BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Vu Thao — WIND LOADED STRU PROGRAM LEA
FHWA

6

S.D.D. 15 C 15-5



R1-2

DIRECTION OF TRAVEL

YIELD LINE

6

6

S.D.D. 15 C 20-2

S.D.D. 15 C 20-2

YIELD MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-18-2016
DATE

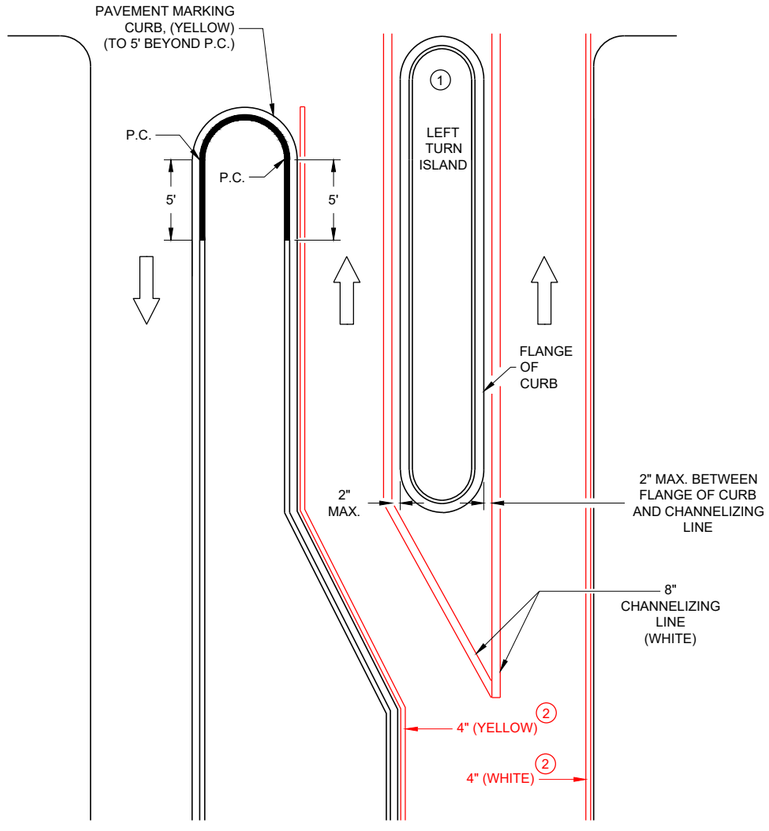
/S/ Matthew R. Rauch
STATE SIGNING AND MARI

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REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED



LEFT TURN & MEDIAN ISLAND

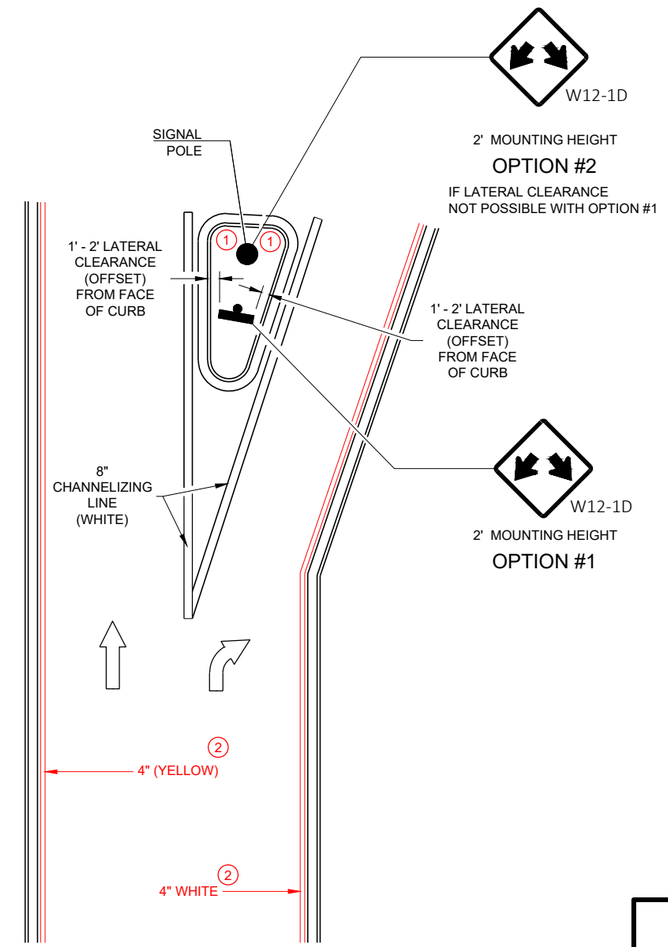
GENERAL NOTES

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

1. MARK CURB NOSES YELLOW.
2. MARK ACCORDING TO TABLE.

DIRECTION OF TRAVEL



RIGHT TURN ISLAND

DOUBLE ARROW
WARNING SIGN PLACEMENT

STATE OF WISCONSIN
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7/2018
DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAF ENGINEER

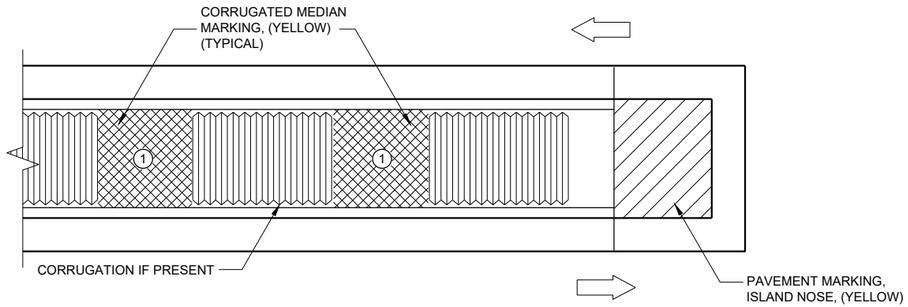
FHWA

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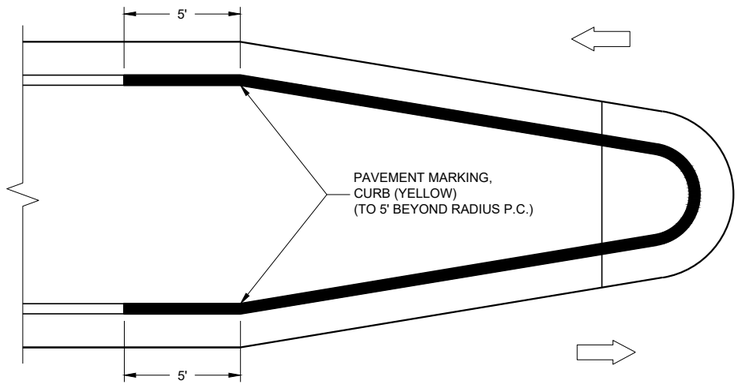
SDD 15C27 - 03a

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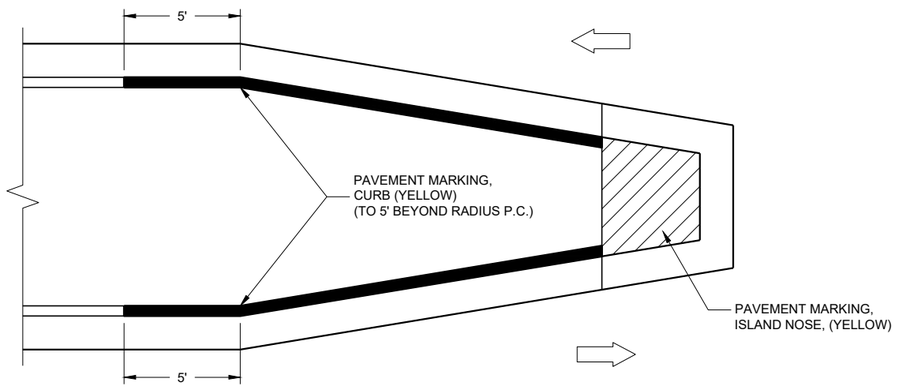
SDD 15C27 - 03a



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE

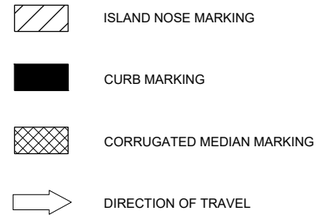


MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF
PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



PAVEMENT MARKINGS
(ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

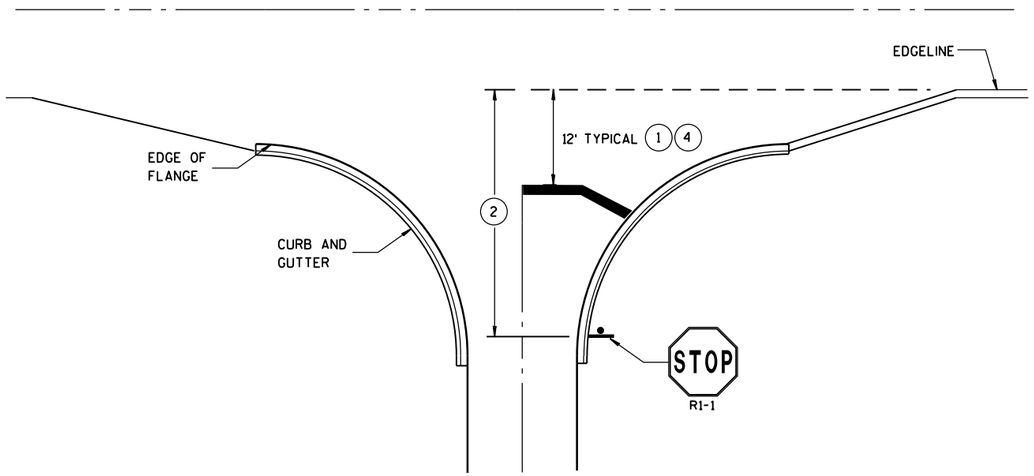
APPROVED
7/2018
DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAF ENGINEER
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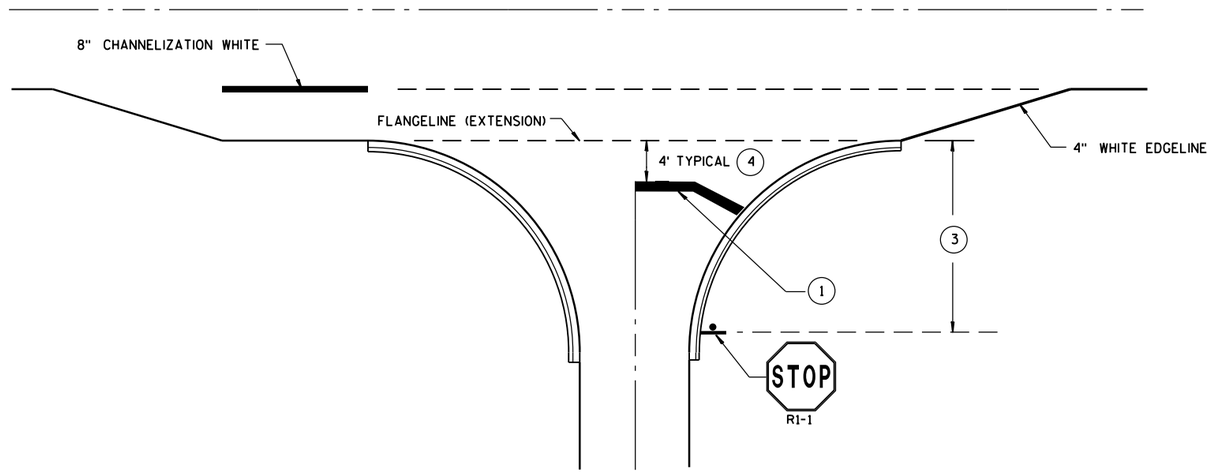
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SDD 15C27 - 03b

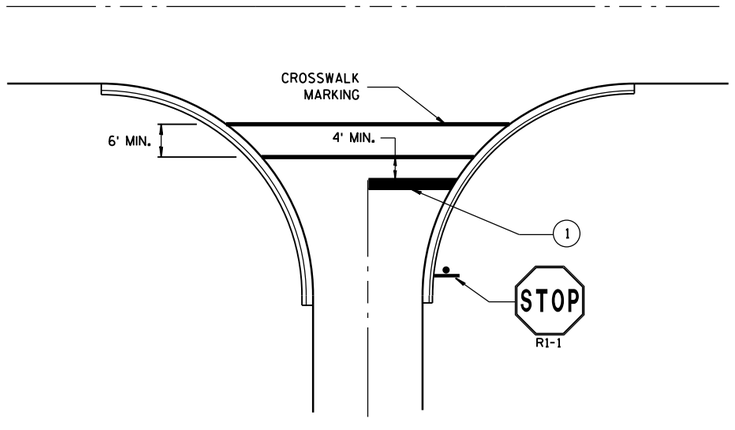
SDD15C27 - 03b



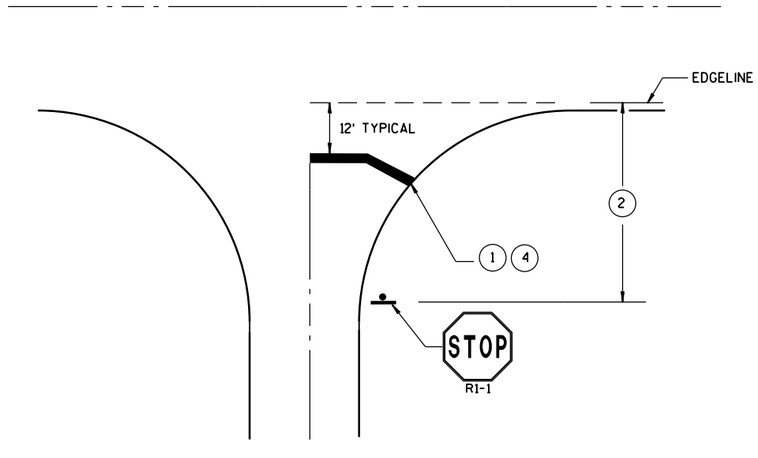
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

(1) 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.

(2) IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.

(3) IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.

(4) MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

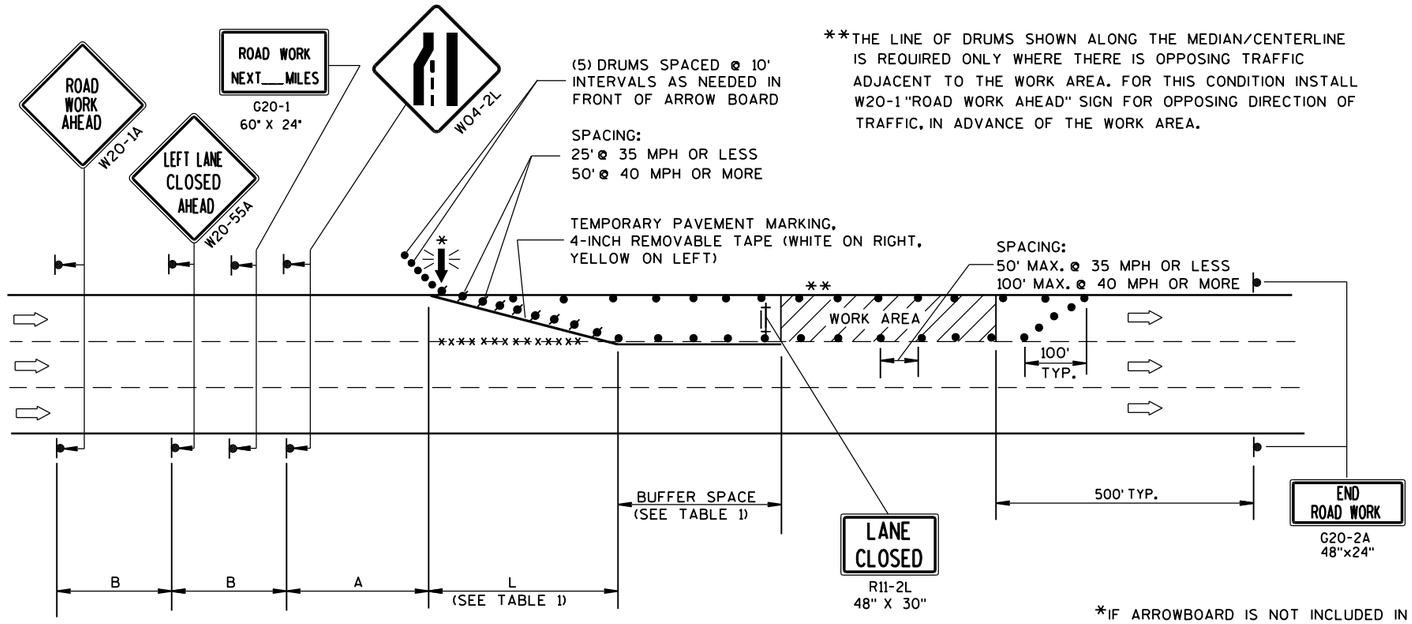
Sept., 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MAR[illegible]NEER

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S.D.D. 15 C 33-3



**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF TRAFFIC, IN ADVANCE OF THE WORK AREA.

B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

(PLACE BARRICADE AND SIGN APPROX. EVERY 1000' ACROSS THE CLOSED LANE)

*IF ARROWBOARD IS NOT INCLUDED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE A TYPE III BARRICADE WITH W01-6 SIGN IN THE LANE CLOSURE TAPER.

W01-6
48"x24"

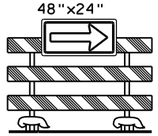


TABLE 1
TAPER AND BUFFER SPACE FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

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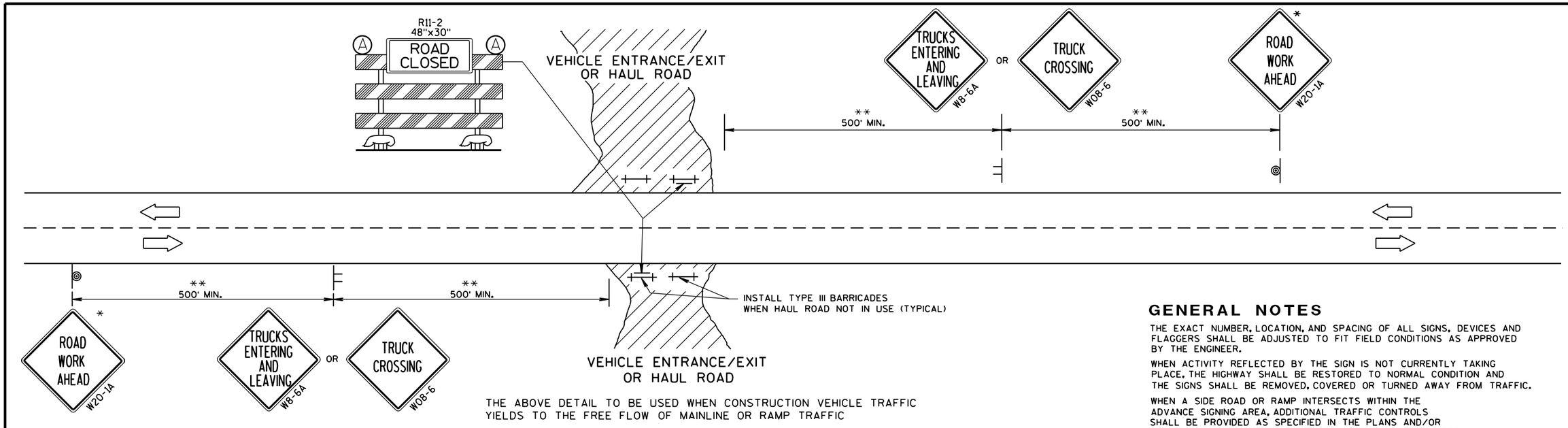
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY ENGINEER

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S.D.D. 15 D 20-4

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S.D.D. 15 D 20-4



THE ABOVE DETAIL TO BE USED WHEN CONSTRUCTION VEHICLE TRAFFIC YIELDS TO THE FREE FLOW OF MAINLINE OR RAMP TRAFFIC

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS, DEVICES AND FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

WHEN ACTIVITY REFLECTED BY THE SIGN IS NOT CURRENTLY TAKING PLACE, THE HIGHWAY SHALL BE RESTORED TO NORMAL CONDITION AND THE SIGNS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC.

WHEN A SIDE ROAD OR RAMP INTERSECTS WITHIN THE ADVANCE SIGNING AREA, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

* THESE SIGNS ARE TO BE USED ONLY WHEN VEHICLE **ENTRANCE/EXIT CONDITIONS ARE SEPARATED BY MORE THAN 2 MILES** FROM PREVIOUS WORK AREA OR SIGNING OR AS DIRECTED BY THE ENGINEER.

** 500 FEET SHOWN IS FOR ROADWAYS WITH A NON-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FEET. FOR 25-30 MPH, USE 200 FEET. USE 1000 FEET/1500 FEET FOR EXPRESSWAY/FREEWAY.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

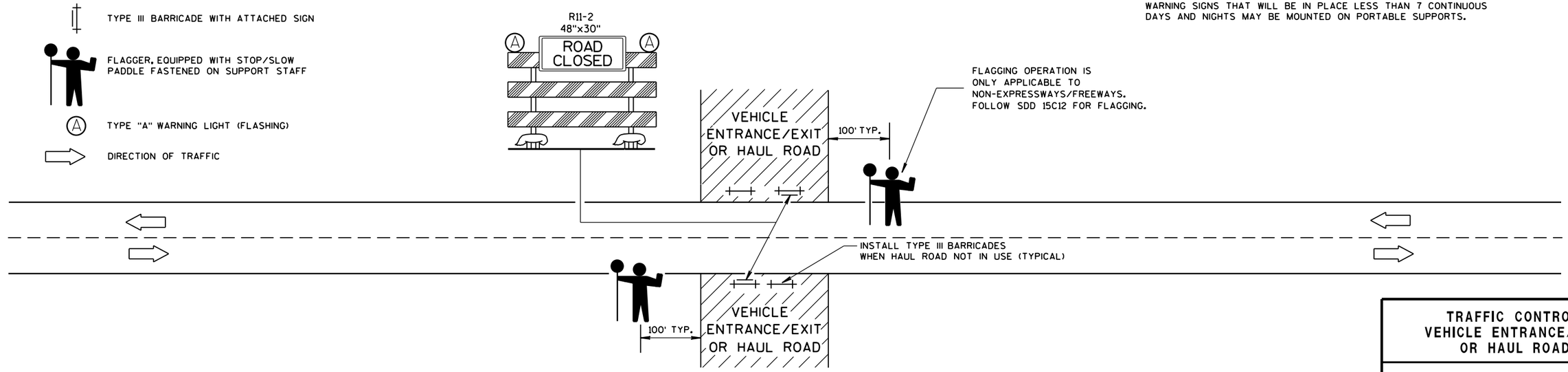
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

PLACE SIGNS ON BOTH SIDES IF USED ON DIVIDED HIGHWAY.

WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC



THIS DETAIL TO BE USED WHEN CONSTRUCTION WORK INCLUDING TRUCKING ACTIVITY REQUIRES MAINLINE TRAFFIC TO BE TEMPORARILY STOPPED IN ONE OR BOTH DIRECTIONS. DELAY TO HIGHWAY TRAFFIC SHALL BE MINIMIZED.

TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

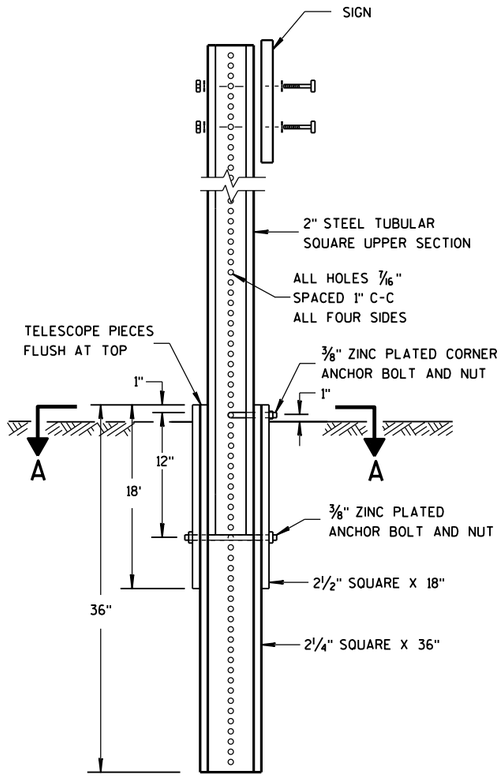
APPROVED
June 2017 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGI
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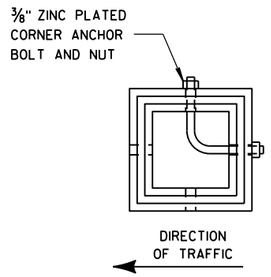
S.D.D. 15 D 29-5

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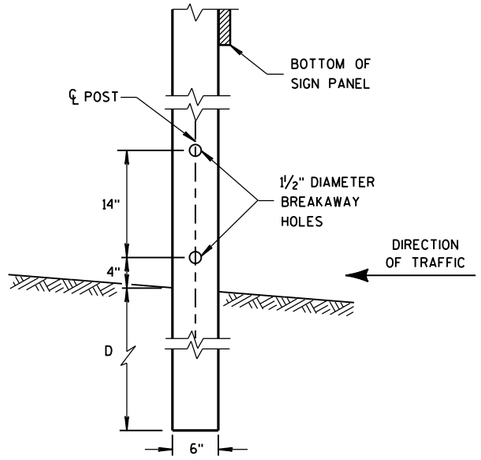
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DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



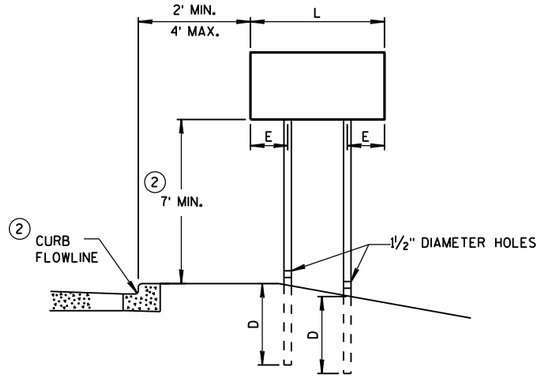
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

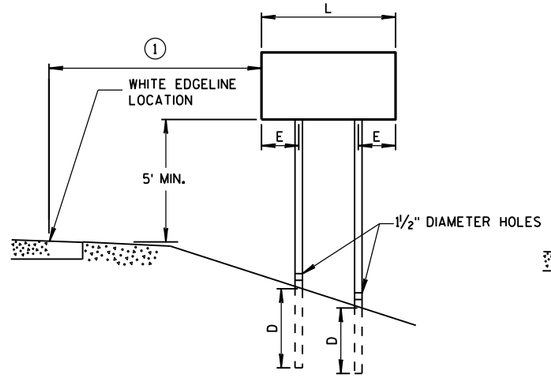
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

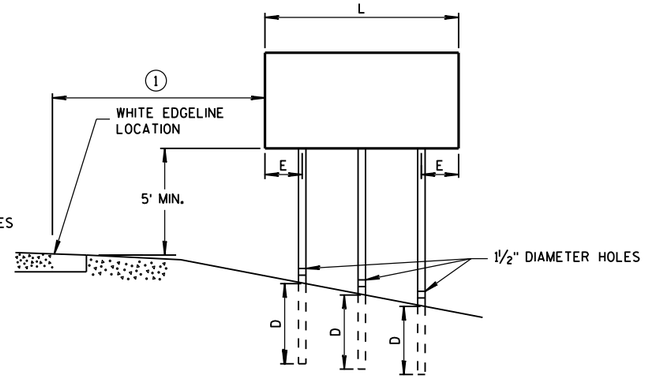
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

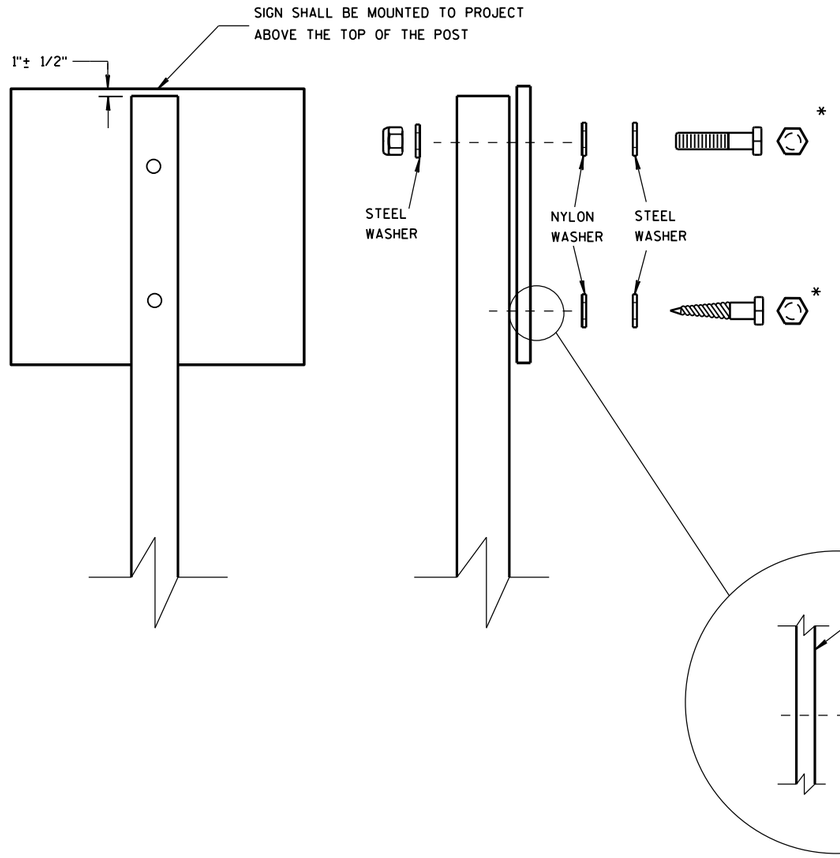
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 D 38-2a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

S.D.D. 15 D 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

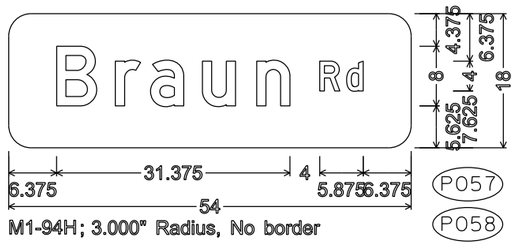
June 2017
DATE

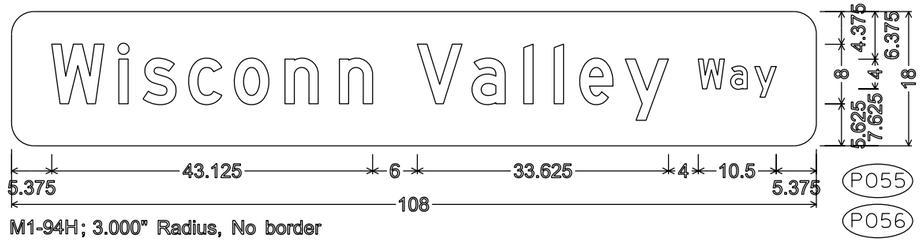
/S/ Andrew Heldtke
WORK ZONE ENG

FHWA

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - D
4. M1-94H base material is .125" alumninum





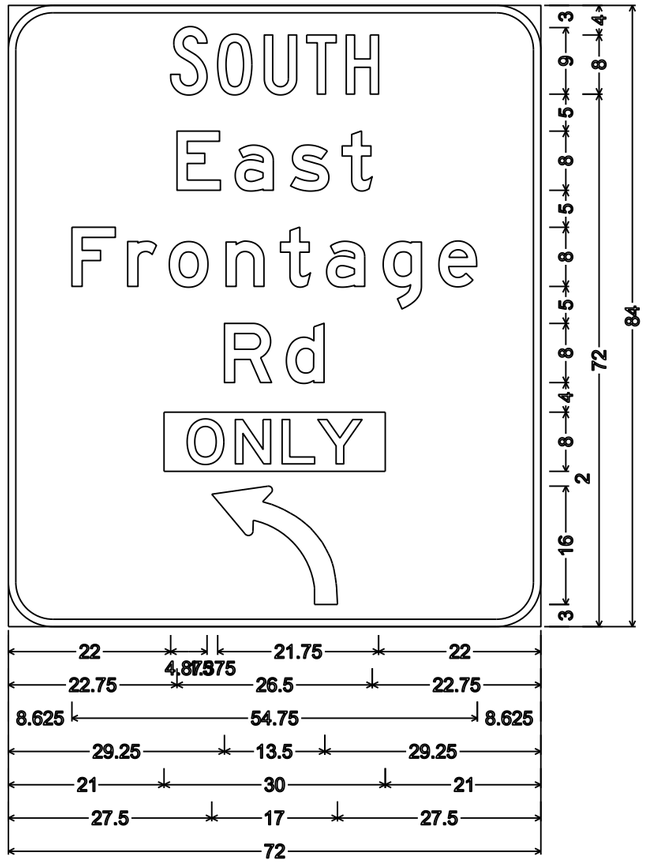
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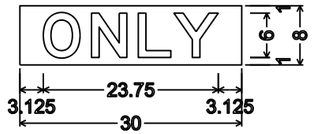
PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PERMANENT SIGNING	SHEET NO: 417	E

NOTES

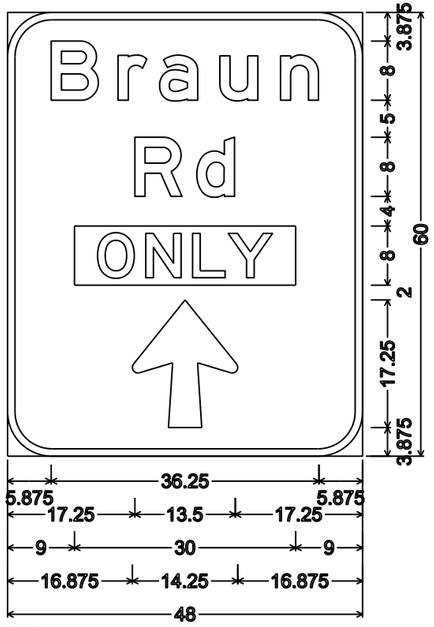
1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - As noted
4. ONLY plaque basematerial is .040" aluminum on Type F Reflective sheeting with Black Message



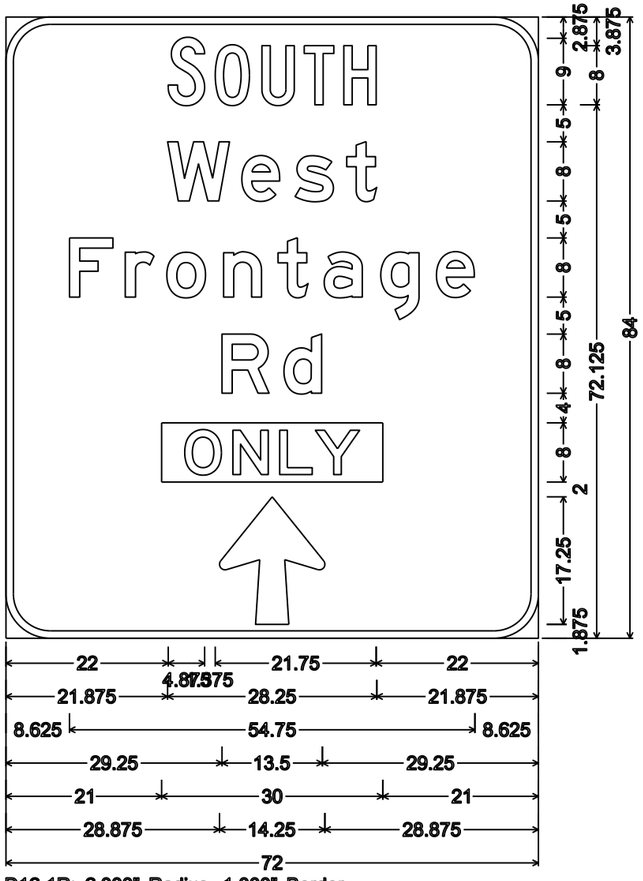
D16-1R; 6.000" Radius, 1.000" Border,
"SOUTH" C; "East" E; "Frontage" E; "Rd" E



No border, Black on Fluorescent yellow;
"ONLY" Black E;



D16-1;
6.000" Radius, 1.000" Border,
"Braun" E; "Rd" E



D16-1R; 6.000" Radius, 1.000" Border,
"SOUTH" C; "West" E; "Frontage" E; "Rd" E

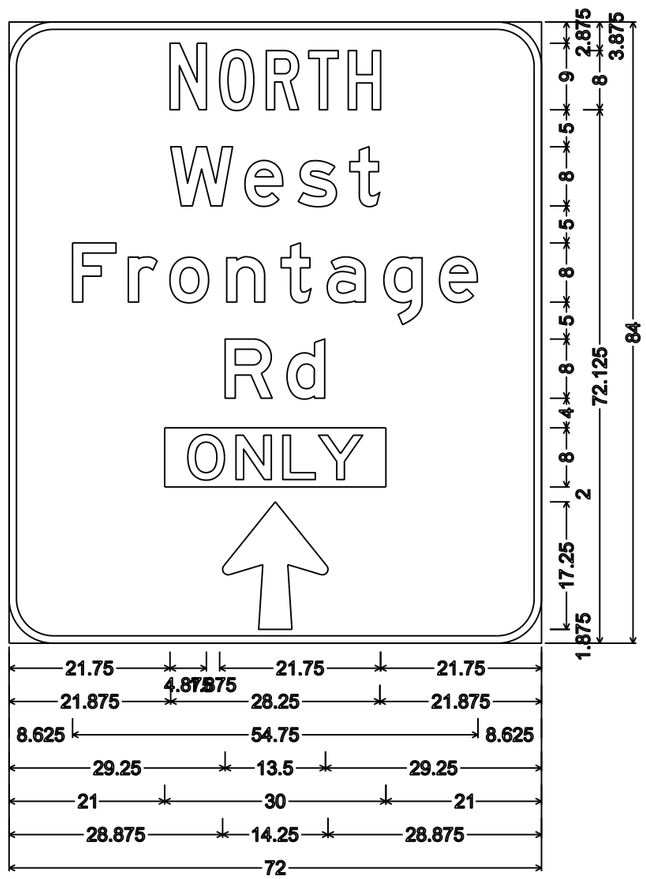
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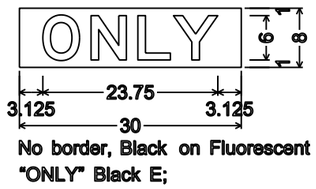
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NOTES

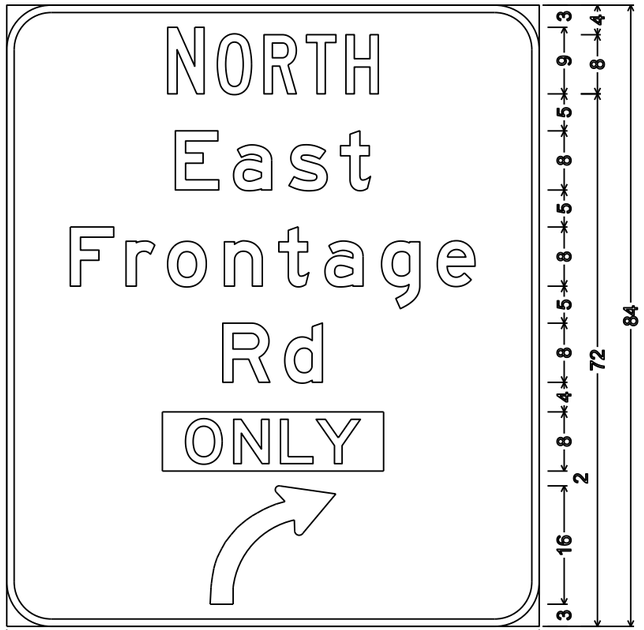
1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - As noted
4. ONLY plaque basematerial is .040" aluminum on Type F Reflective sheeting with Black Message



D16-1R; 6.000" Radius, 1.000" Border,
"NORTH" C; "West" E; "Frontage" E; "Rd" E



No border, Black on Fluorescent yellow;
"ONLY" Black E;



D16-1R; 6.000" Radius, 1.000" Border,
"NORTH" C; "East" E; "Frontage" E; "Rd" E

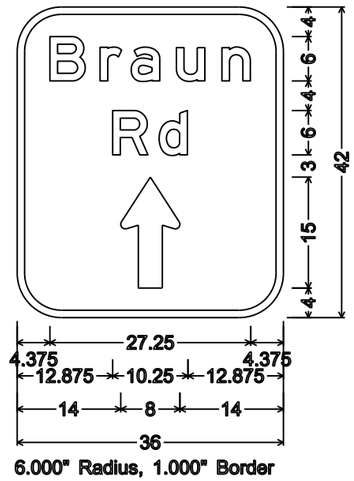
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7

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PERMANENT SIGNING	SHEET NO: 419	E

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E



7

7

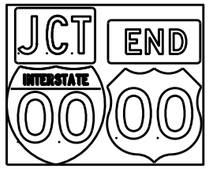
PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	PERMANENT SIGNING	SHEET NO: 420	E

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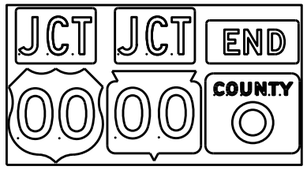
TYPICAL ASSEMBLIES



J1-1



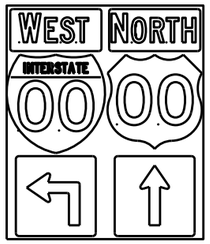
J1-2



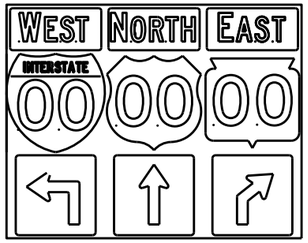
J1-3



J2-1



J2-2

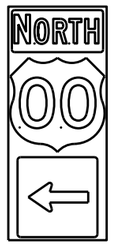


J2-3

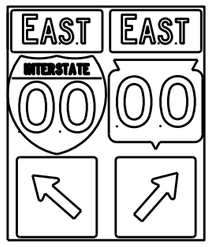


JV

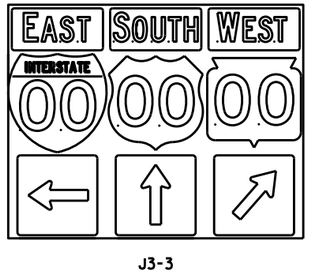
(Typical Vertical J-Assembly
See Note 10 and 11)



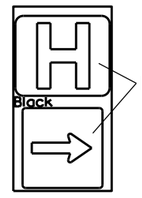
J3-1



J3-2



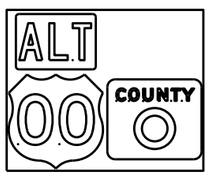
J3-3



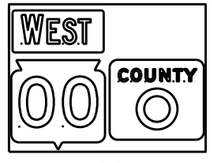
JH-1



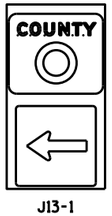
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



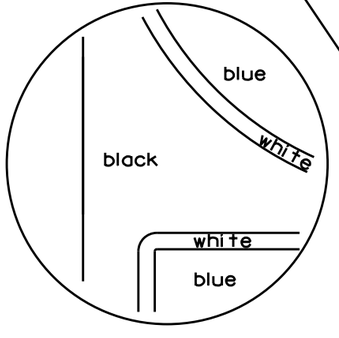
J33-1

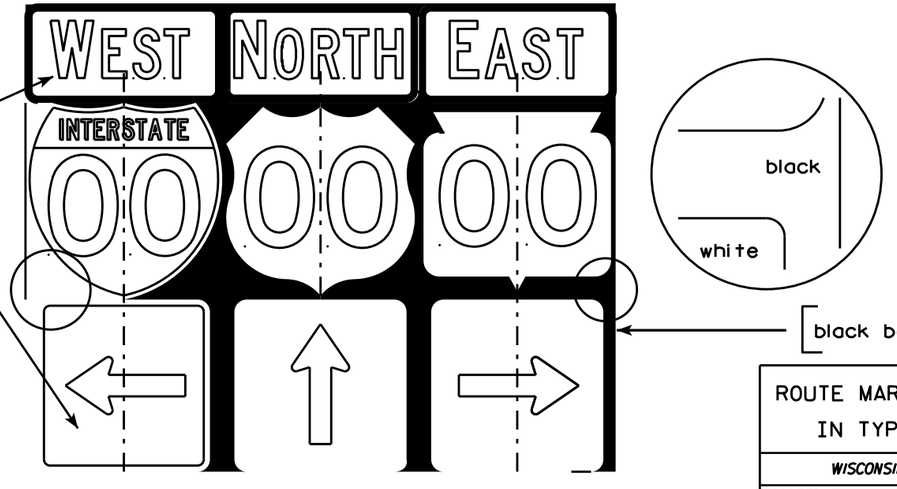


J23-1



J22-1





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

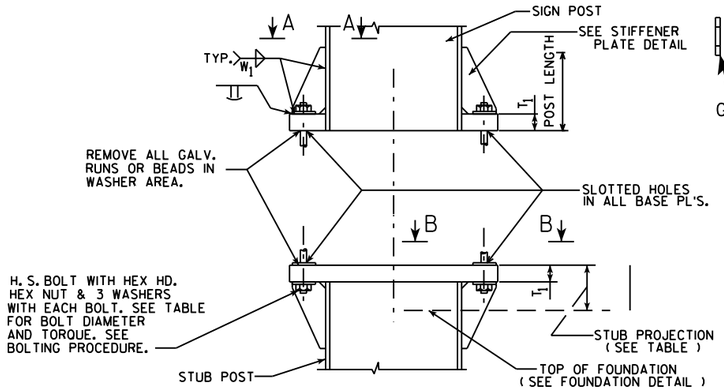
DATE 2/06/14 PL... A2-1S.8

PROJECT NO:

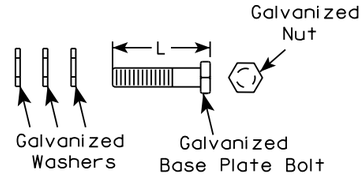
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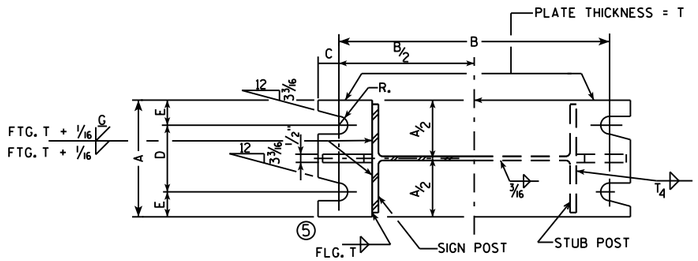
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WISDOT/CADDS SHEET 42



SIGN POST AND STUB POST ELEVATION





DESIGN DATA

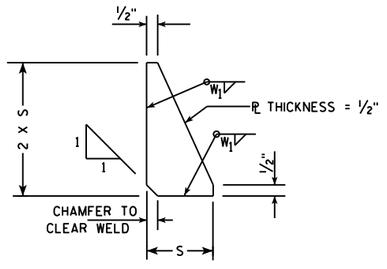
WIND PRESSURE = 75 M.P.H.
WIND COMPONENTS - NORMAL = 1.0 TRANSVERSE = 0.0
ICE LOAD = 3 P.S.F.

GROUP LOADS	PERCENT OF ALLOWABLE STRESS
1. DEAD	100
2. DEAD & WIND	140
3. DEAD, ICE & 1/2 WIND[A]	140 [A]25 P.S.F. MIN.

ALLOWABLE SOIL PRESSURE = 1½T / SQ. FT.
WIND LOAD WAS APPLIED TO THE AREA OF THE SIGN AND TO THE SUPPORTING MEMBERS.
ICE LOAD WAS APPLIED TO ONE FACE OF THE SIGN AND AROUND THE SURFACE OF THE SUPPORTING MEMBERS.

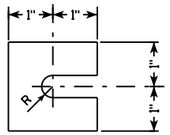
GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
DESIGN CONFORMS WITH A.A.S.H.T.O. SPECIFICATIONS 1985.
ALL POSTS, POST STUBS & ATTACHMENTS SHALL BE A.S.T.M. A709 GRADE 50, GALVANIZED IN ACCORDANCE WITH ASTM A123. ⑨
THE POST, BASE PLATES, UPPER SIX INCHES OF STUB POST FLANGE SPLICE PLATE AND FUSE PLATE SHALL BE GALVANIZED AFTER FABRICATION.
FURNISH STEEL BOLTS, NUTS, AND WASHERS IN ACCORDANCE WITH SECTION 635 OF THE STANDARD SPECIFICATIONS.



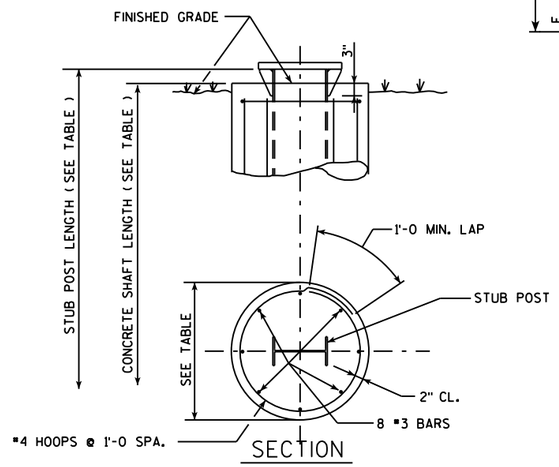
STIFFENER PLATE DETAIL

(SEE TABLE FOR DIMENSIONS)

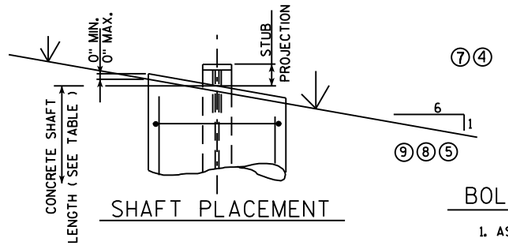


FURNISH 2 @ .012" ± THICK AND 2 @ .032" ± THICK SHIMS PER POST. SHIMS SHALL BE FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO A.S.T.M.- B36.

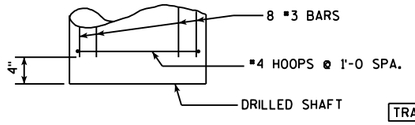
SHIM DETAIL



SECTION



SHAFT PLACEMENT ⑦④ ⑨⑧⑤

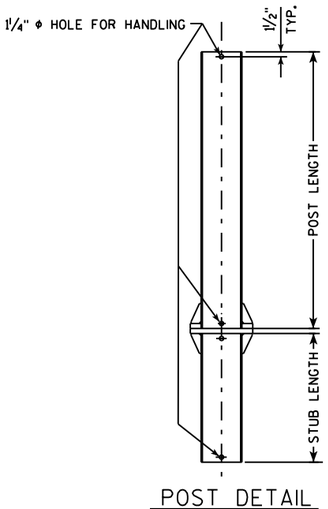


FOUNDATION DETAIL

BOLTING PROCEDURE - BASE CONNECTION

1. ASSEMBLE SIGN POST TO STUB POST WITH BOLTS AND ONE OF THE FLAT WASHERS ON EACH BOLT BETW. PLATES.
2. SHIM AS REQ'D. TO PLUMB POST.
3. PRIOR TO BOLT TIGHTENING LUBRICATE BASE CONNECTION BOLTS WITH BEESWAX OR OTHER HIGH-WAX LUBRICANT.
4. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH 12" OR 15" WRENCH TO BED WASHERS & SHIMS AND TO CLEAN BOLT THREADS, THEN LOOSEN EACH BOLT IN TURN AND RETIGHTEN IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE. (SEE TABLE)
5. BURR THREADS AT JUNCTION WITH NUT USING A CENTER PUNCH TO PREVENT NUT LOOSENING.

NOTE:
TIGHTEN THE HIGH STRENGTH BOLTS TO THE TORQUE SHOWN. DO NOT OVERTIGHTEN.



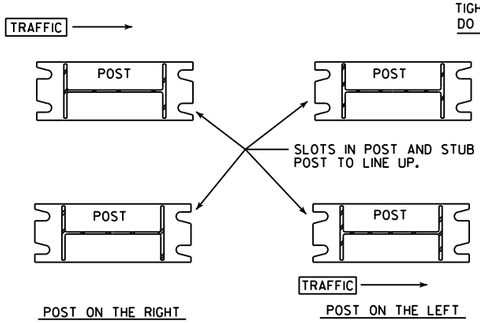
POST DETAIL

QUANTITIES FOR 1 FOOTING		
	CONC. MASONRY C.Y.	REINF. STEEL LBS.
A	0.6	34
B	0.8	49
C	0.9	50
D	0.9	56
E	1.0	62

⑦

REINF.	TYPE	#3	#4
	A	8 @ 4'-5	5 @ 6'-3
	B	8 @ 6'-5	7 @ 6'-3
	C	8 @ 6'-11	7 @ 6'-3
	D	8 @ 7'-5	8 @ 6'-3
	E	8 @ 7'-11	9 @ 6'-3

⑦



POST SLOT ORIENTATION ⑦

L	X	TYPE	POST SIZE	WEIGHT PER FT	BASE CONNECTION DATA TABLE: BOLT SIZE & TORQUE	A	B	C	D	E	T_1	T_4	W_1	R	S	FOUNDATION DATA: STUB LENGTH	STUB PROJECTION	SHAFT DIAMETER	SHAFT LENGTH	② K
3 3/4	④	A	W10"X12.0	12.0 LBS	3/4" ø @ 75"-FT.	5 1/4"	1'-0 3/8"	7/8"	3 1/2"	7/8"	1"	3/16"	5/16"	13/32"	2 1/8"	3'-6	3"	2'-0 ø	5'-0	76.0" ④
4 3/4	④	B	W12"X16.0	16.0 LBS	7/8" ø @ 85"-FT.	5 1/2"	1'-4 1/4"	1"	3 1/2"	1"	1 1/4"	1/4"	5/16"	15/32"	3"	5'-6	3"	2'-0 ø	7'-0	146.5" ④
5		C	W12"X19.0	19.0 LBS	7/8" ø @ 85"-FT.	5 1/2"	1'-4 1/4"	1"	3 1/2"	1"	1 1/2"	5/16"	5/16"	15/32"	3"	6'-0	3"	2'-0 ø	7'-6	182.1"
5		D	W12"X22.0	22.0 LBS	7/8" ø @ 85"-FT.	5 1/2"	1'-4 1/4"	1"	3 1/2"	1"	1 1/2"	3/8"	5/16"	15/32"	3"	6'-6	3"	2'-0 ø	8'-0	210.5"
5	③	E	W12"X26.0	26.0 LBS	1" ø @ 90"-FT.	7"	1'-4 1/4"	1 1/4"	4"	1 1/2"	1 1/2"	3/8"	5/16"	17/32"	3"	7'-0	3"	2'-0 ø	8'-0	293.0" ③

① ⑥ ①

STRUCTURAL CARBON STEEL PAY WTS. (1 POST) = K+ (POST LENGTH X POST WT.)
" K " INCLUDES STUB, BASE PLATES, STIFFS., BOLTS, AND WASHERS.

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 8/22/17 PLATE NO. A3-1.17

NO.	DATE	REVISION
⑩	1-21-14	LUBRICATION OF BASE BOLTS
⑨	4-26-11	REMOVE NON-GALVANIZED
⑧	10-30-96	NOT GALVANIZED/GALVANIZED
⑦	10-30-92	QUANT., A588 EXCEPT., ADD SLOT VIEW
⑥	8-24-87	BASE CONN. WELD
⑤	10-13-81	BASE CONN. WELD & FUSE & WASHERS
④	10-19-79	POST A & B, A572 GR. 50, & K
②	11-28-78	"K" ③ 4-23-79 TYPE "E"
①	5-4-78	T_1 . T_2 & W_1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

TYPE A, B, C, D, & E

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2011	JPH	

FTG. & SIGN SUPPORT DETAILS GROUND MOUNT BREAK-AWAY SIGNS

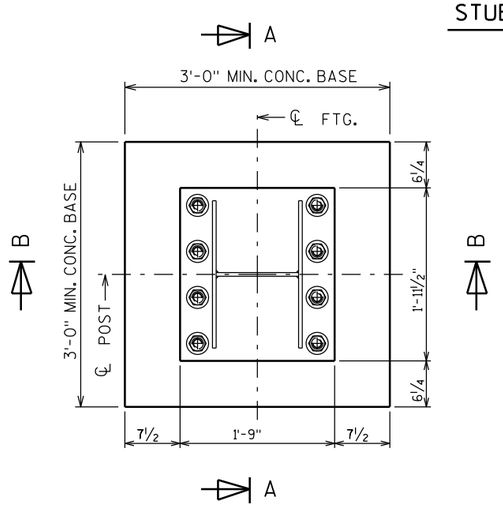
SHEET

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 422 | E

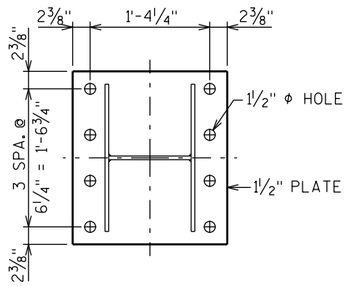
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WISDOT/CADDS SHEET 42

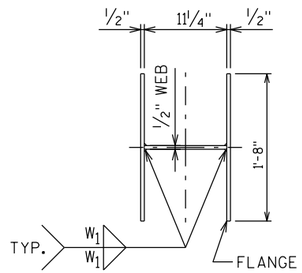
STUB AND MASONRY ANCHOR DETAILS



STUB SECTION



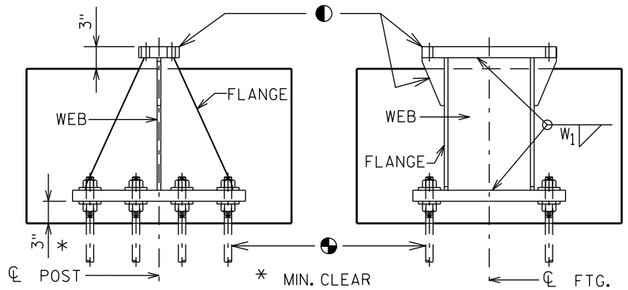
BASE PLATE



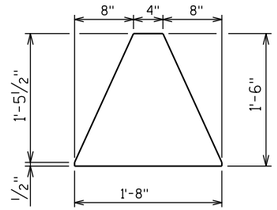
STUB

◐ SEE PLATE NO. A3-1 FOR DETAILS

◒ MASONRY ANCHORS TYPE S 1¼-INCHES (ADHESIVE). ALLOWABLE PULL OUT CAPACITY 14,995 KIPS. EMBED 1'-3" IN ROCK.



SECTION A SECTION B



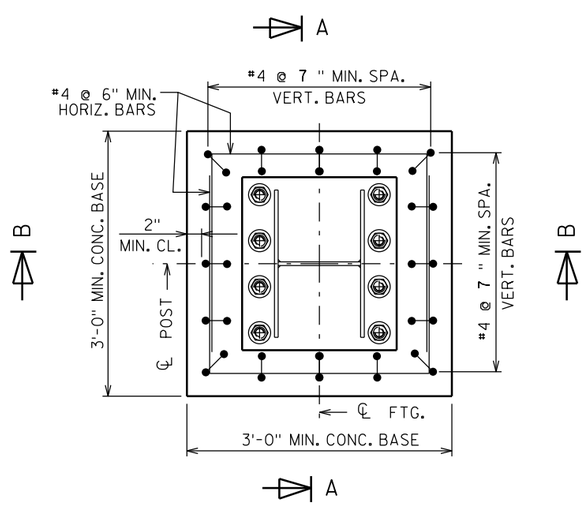
FLANGE

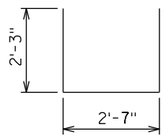
GENERAL NOTES

1. Quantities per Base:
   - REINFORCING BAR STEEL = 62 LBS
   - CONCRETE = 0.6 C.Y.
   - STEEL WEIGHT = 335 LBS
2. All materials, except anchor rod, nuts and washers, are to be A.S.T.M. A709 grade 50. All materials to be galvanized after fabrication.
3. If the contractor encounters rock before reaching the footing depth, per the A3-1 Sign Detail, determine the pull-out capacity of a test adhesive anchor installed in the rock. If the test result equals or exceeds the pull-out capacity of 14,995 KIPS, the contractor may install the breakaway stub for rock, according to this detail.

CONCRETE BASE AND REINFORCING STEEL DETAILS

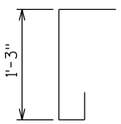
CONCRETE BASE SECTION





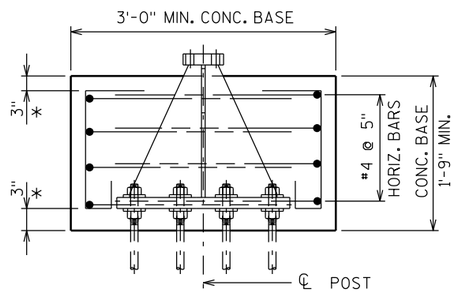
HORIZONTAL BAR

8 BARS @ 6'-11" LENGTH



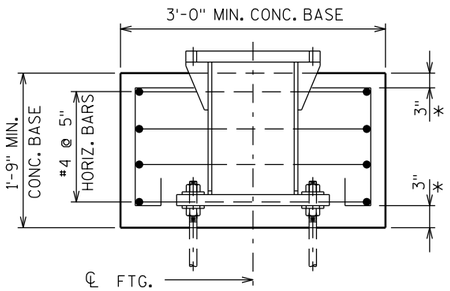
VERTICAL BARS

16 BARS @ 2'-4" LENGTH
MAY BE PLACED IN SKEW
FOR CLEARANCE NEED



SECTION A

* MIN. CLEAR



SECTION B

ALTERNATE BREAK-AWAY BASE ON ROCK
A3-1M

WISCONSIN DEPT OF TRANSPORTATION

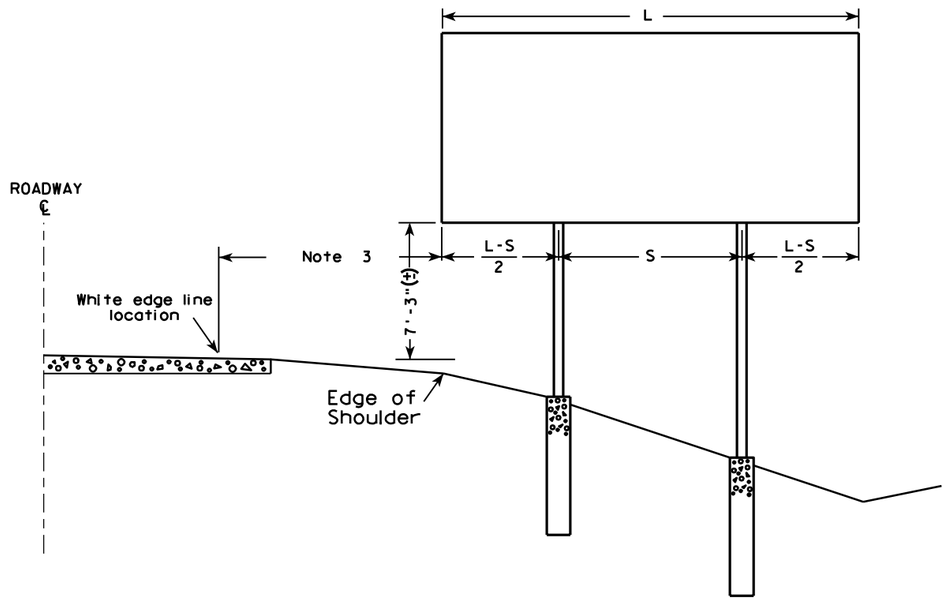
APPROVED Matthew R Rauch for State Traffic Engineer

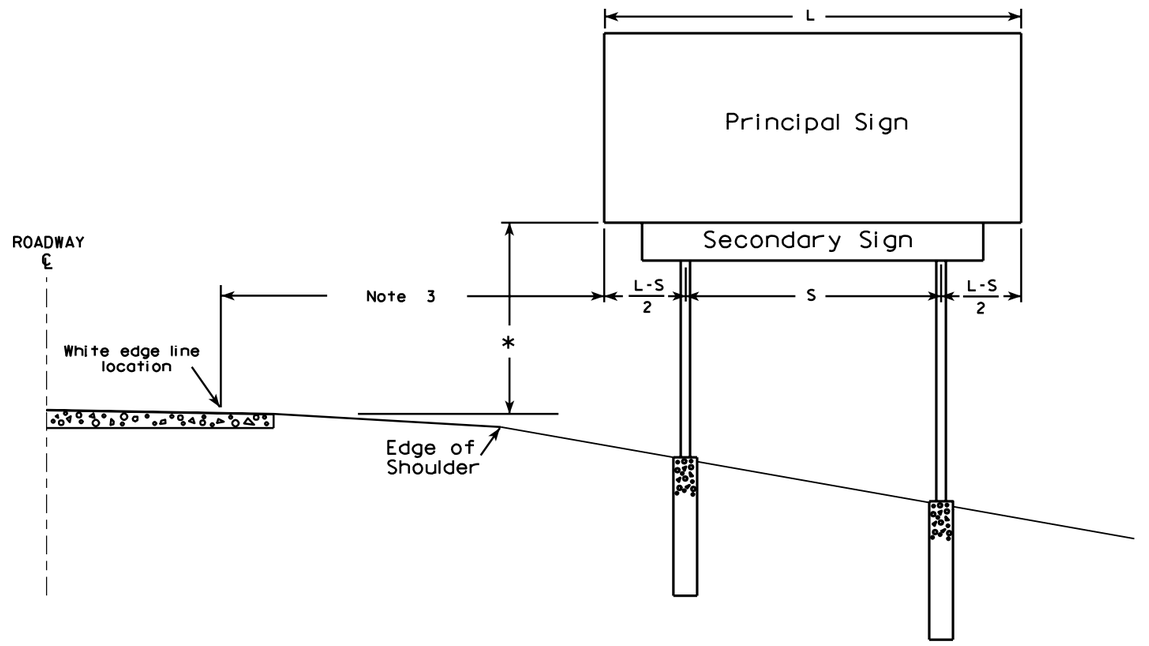
DATE 2/06/2014 PLAN A3-1M.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A31M.DGN PLOT DATE : 10-MAR-2014 15:16 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 1.556674:1.000000

WISDOT/CADDS SHEET 42





GENERAL NOTES

1. For a 2 post installation, S equals 3L/5, but shall not be less than 9 ft.
2. For a 3 post installation, S equals 5L/7, but shall not be less than 18 ft., and the space between any two posts shall not be less than 9 ft.
3. Unless noted in the plan, the sign offset distance shall be a minimum of 17'-6", desirable 30'-0".
4. The (±) tolerance shown on this sheet is 3 in.
5. The vertical sign height clearance detailed is measured from the bottom of the sign to the near edge of pavement.
6. Post lengths shown in the miscellaneous quantities are estimated lengths. The contractor shall verify post lengths at the time of final grading.
7. Refer to the Traffic Guidelines Manual for further guidance on minimum vertical clearance requirements.

* Clearance is 8'-3"(±) when the secondary sign is 3 ft. or less in height. For secondary signs larger than 3 ft., the clearance to the bottom of the secondary sign shall be 5'-3"(±).

TYPICAL INSTALLATION OF TYPE I SIGNS

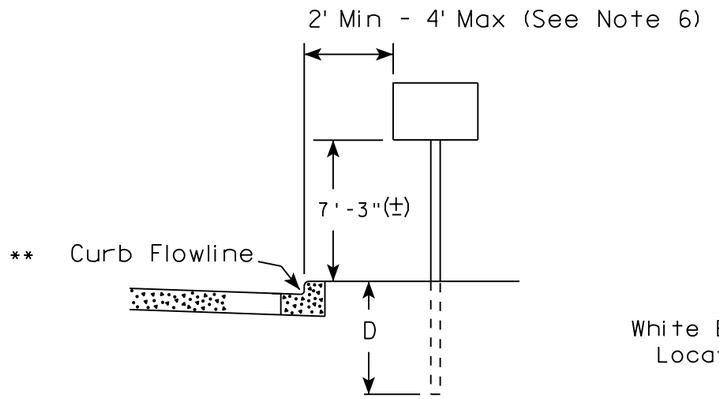
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

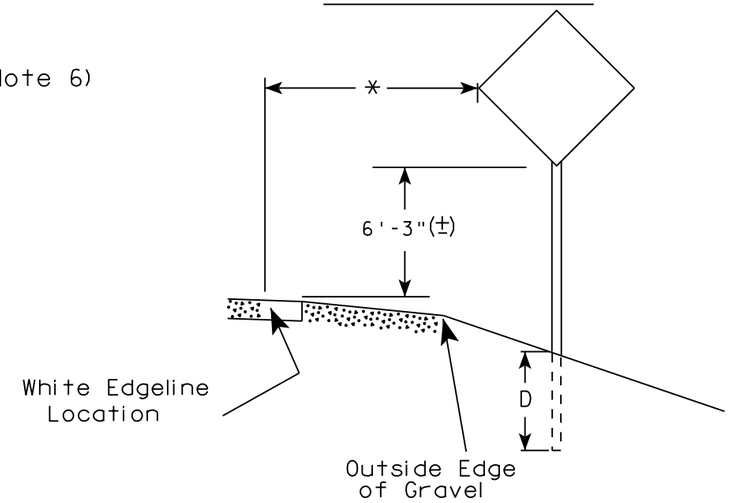
DATE 4/02/08 PLATE NO. A4-1.9

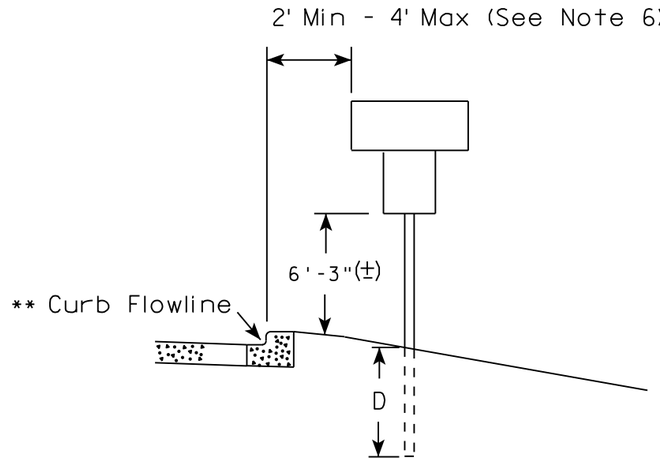
PROJECT NO:				SHEET NO: 424	E

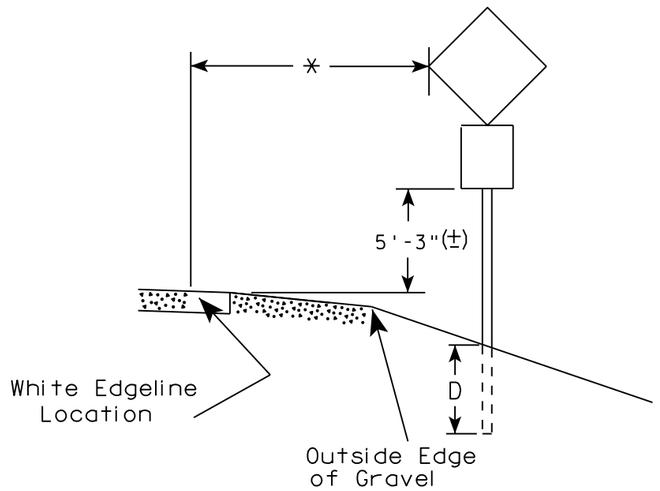
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

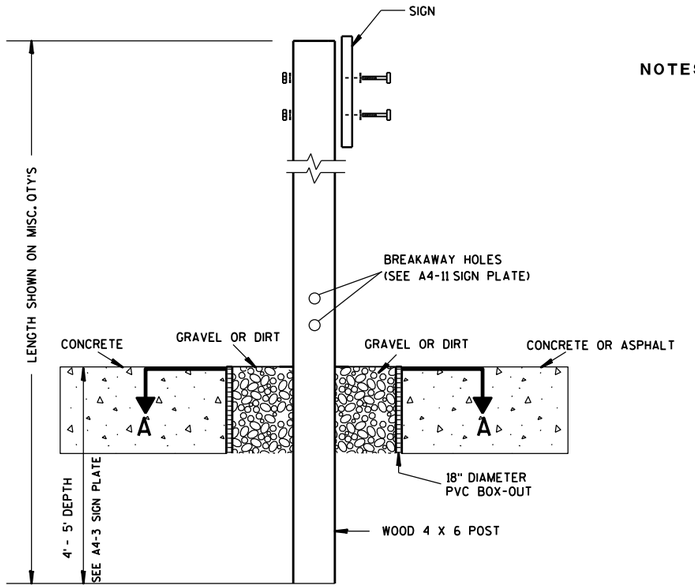
1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

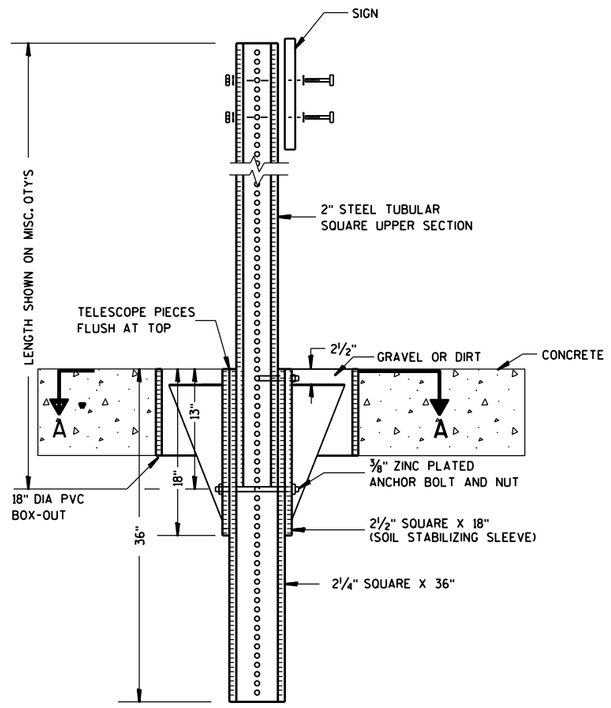
DATE 8/21/17 PLATE NO. A4-3.21



ELEVATION VIEW

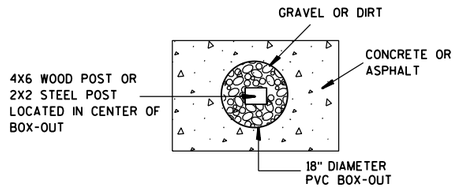
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

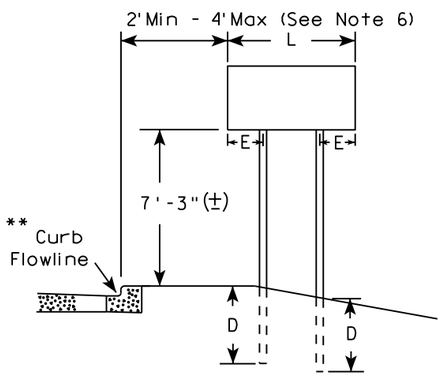
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

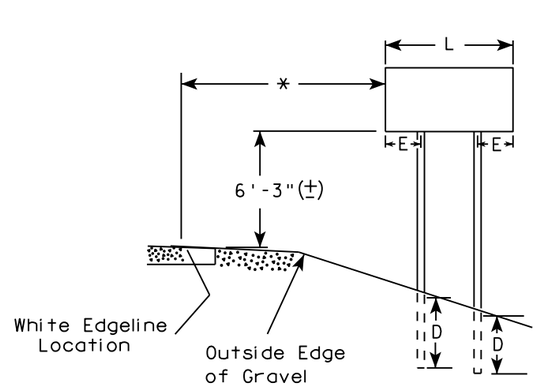
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

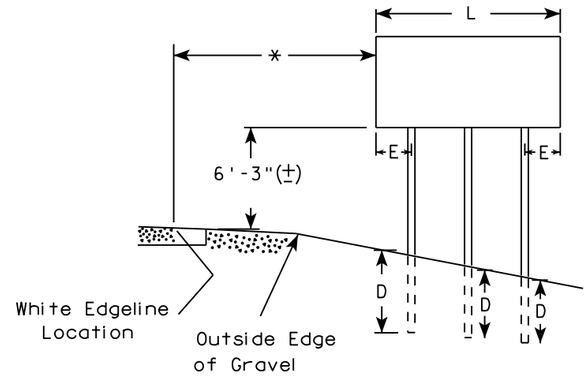
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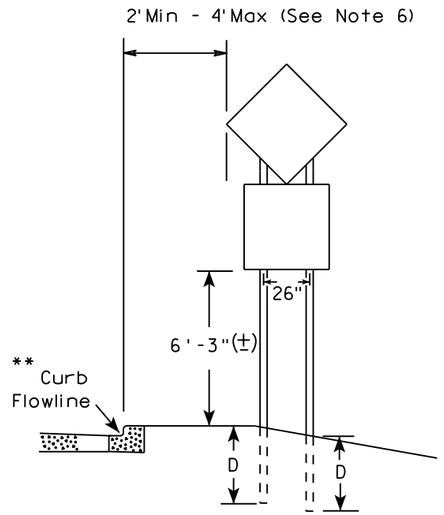
URBAN AREA



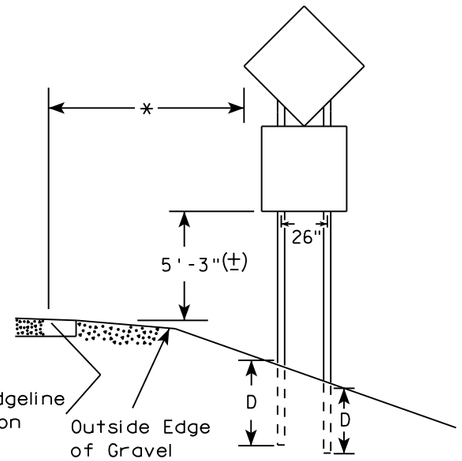
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E
***	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

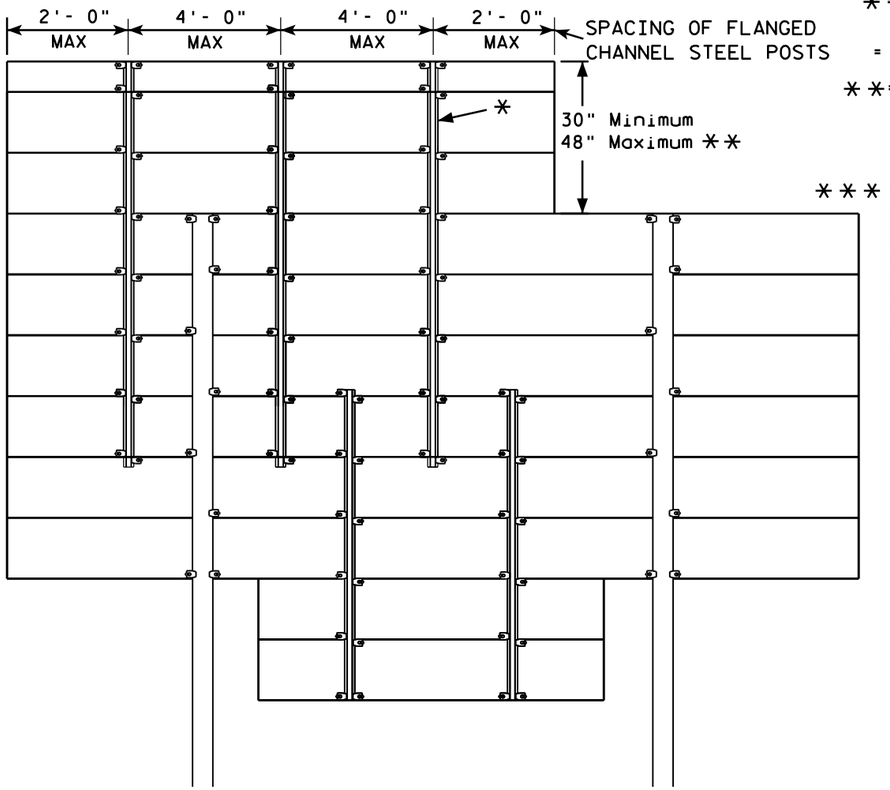
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 427	E

GROUND MOUNTED SIGN

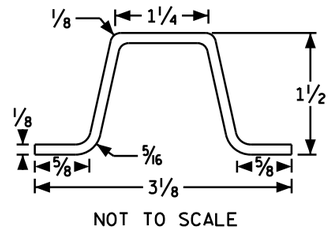


* =2.00 lb/ft FLANGED CHANNEL, MIN. YIELD STRENGTH = 60,000 PSI (GRADE 60) GALVANIZED

** =FOR 48" HEIGHT PANELS ON OVERHEAD STRUCTURES, ENTIRE SIGN SHALL BE CENTERED VERTICALLY ABOUT THE DEPTH OF THE TRUSS.

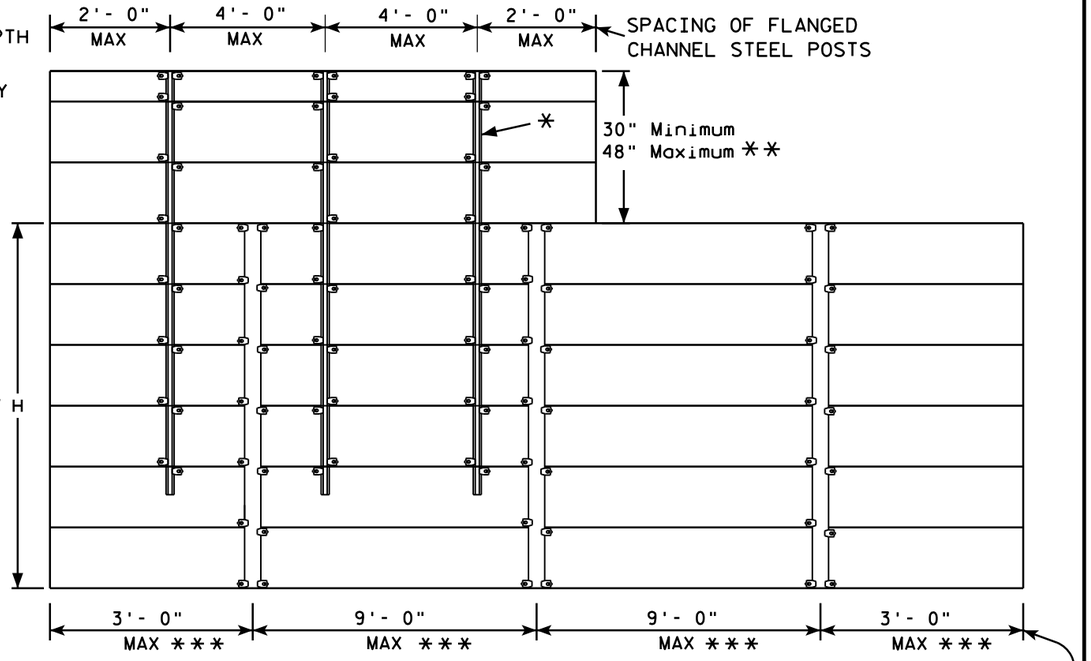
*** THESE SPACING DISTANCES SHALL ONLY BE USED WHEN THE MAIN SIGN HAS A MAXIMUM HEIGHT (DIMENSION H) OF 16 FT OR LESS. FOR SIGNS WITH A HEIGHT OF GREATER THAN 16 FT, STRUCTURAL CALCULATIONS SHALL BE PERFORMED.

FLANGE CHANNEL DETAIL



NOT TO SCALE

SIGN BRIDGE MOUNTED SIGN



SPACING OF ALUMINUM SIGN SUPPORTS
5" X 3.5" X 3.7 LBS./ft.

GENERAL NOTES

1. Flanged channel steel posts shall conform to size and material above, and shall be considered as incidental to other items in the contract.
2. Number of Flanged channel steel supports varies with length of panel and shall be spaced as shown:

   PANEL LENGTH 8'-0" OR LESS = 2 CHANNELS
   PANEL LENGTH 9'- 0" - 12'- 0" = 3 CHANNELS
   PANEL LENGTH 13'- 0" OR MORE = 4 CHANNELS

   If the flanged channel steel posts can not be horizontally spaced as shown, they can be moved so as to securely hold the sign.
3. The EXIT NUMBER PANEL shall normally be positioned above the guide sign aligned with the right edge of the guide sign. If the guide sign indicates a left exit, the EXIT NUMBER PANEL shall be aligned with the left edge of the guide sign.
4. If the bolt holes in the top panel (EXIT NUMBER), or sub panel (NEXT EXIT) line up with holes in main sign panel, stitch bolts shall be used in addition to the channels.
5. Provide post clips for each sign as shown. (Please note the differences between a ground mounted versus Sign bridge mounted sign as far as number of clips required on the main supports or beams)
6. Structural steel sign supports shall extend to the top of the main signs, as shown on the above details.

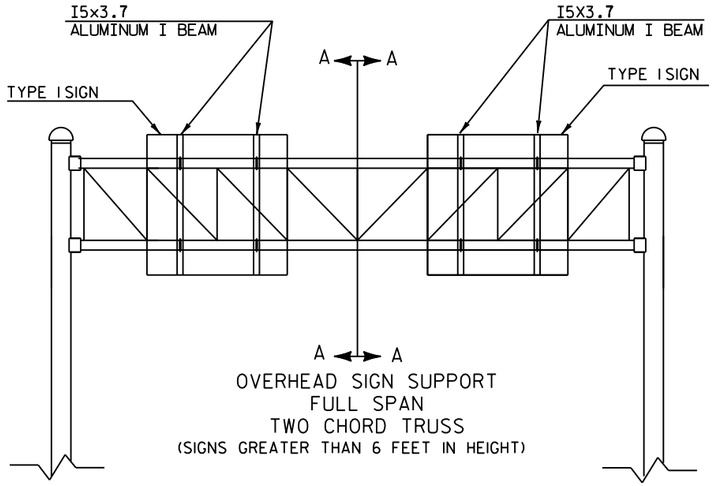
ATTACHMENT OF GUIDE SIGNS TO SUPPORTS

WISCONSIN DEPT OF TRANSPORTATION

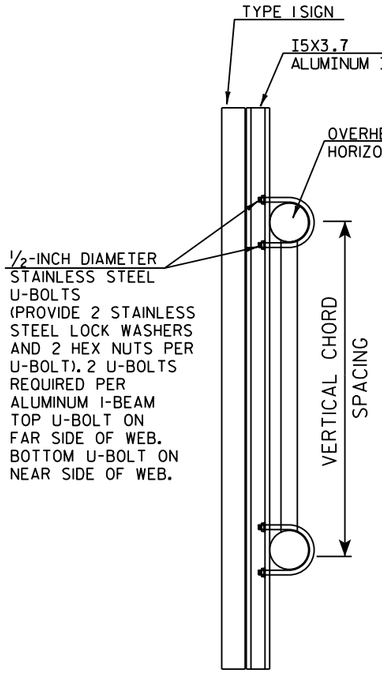
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/05/13 PLAT 428 A4-6.12

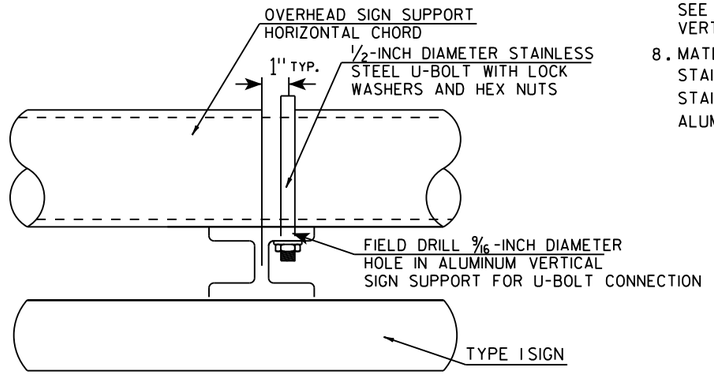
PROJECT NO: | SHEET NO: E



OVERHEAD SIGN SUPPORT
FULL SPAN
TWO CHORD TRUSS
(SIGNS GREATER THAN 6 FEET IN HEIGHT)



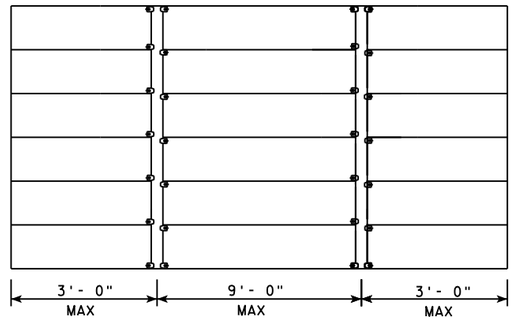
CUT SECTION A-A



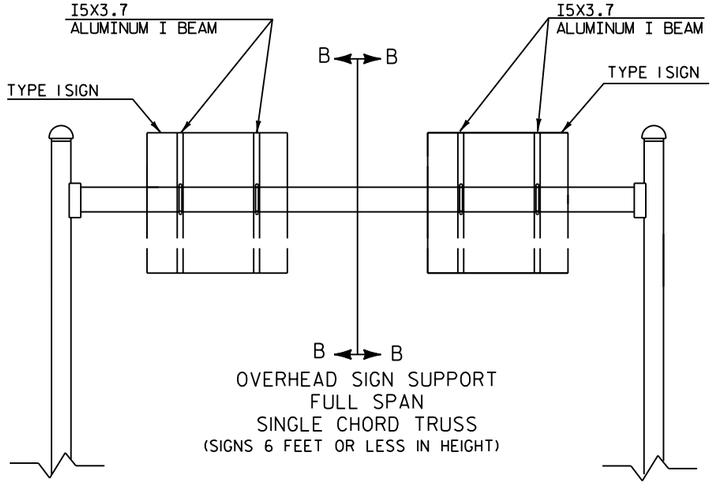
TYPICAL SIGN CONNECTION FOR
TWO CHORD TRUSS
PLAN VIEW

GENERAL NOTES

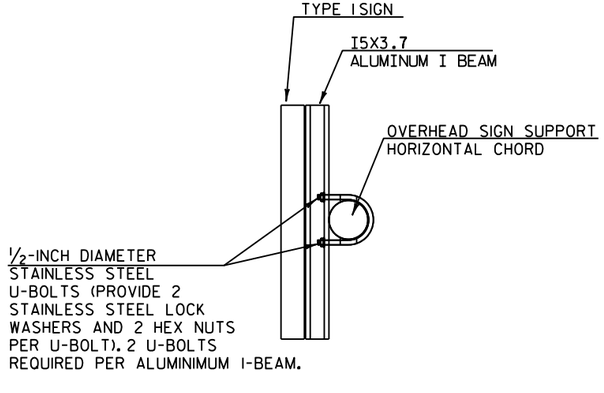
1. USE STAINLESS STEEL U-BOLTS, WASHERS, AND NUTS.
2. USE CLIPS ON EVERY EXTRUDED PANEL JOINT PER SIGN PLATE A4-6.
3. USE ALUMINUM VERTICAL SIGN SUPPORT BEAMS HAVING A 5 INCH BEAM DEPTH AND WEIGHT OF 3.7 LBS PER FOOT.
4. U-BOLTS SHALL BE STAINLESS STEEL AND MANUFACTURED TO THE PROPER SIZE TO FIT THE CHORDS OF THE OVERHEAD SIGN STRUCTURE.
5. DIAMETER OF U-BOLTS SHALL BE AS SHOWN.
6. THE LENGTH OF THE ALUMINUM VERTICAL SIGN SUPPORT BEAMS SHALL BE THE SAME AS THE HEIGHT OF THE SIGN THEY ARE SUPPORTING. BEAM LENGTHS MAY BE LONGER FOR PROPER ATTACHMENT TO CHORDS.
7. MINIMUM NUMBER OF BRACKETS PER SIGN IS TWO. SEE DETAIL BELOW FOR SPACING OF ALUMINUM VERTICAL SIGN SUPPORTS
8. MATERIAL NOTES:
   STAINLESS STEEL U-BOLTS AND LOCKWASHERS ASTM 304.
   STAINLESS STEEL HEX NUTS ASTM A276.
   ALUMINUM I-BEAMS ARE 6061-T6.



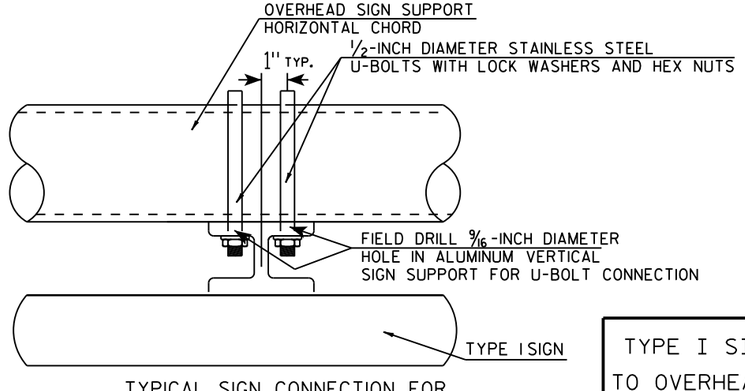
SPACING OF I5X3.7 ALUMINUM
VERTICAL SIGN SUPPORT



OVERHEAD SIGN SUPPORT
FULL SPAN
SINGLE CHORD TRUSS
(SIGNS 6 FEET OR LESS IN HEIGHT)



CUT SECTION B-B



TYPICAL SIGN CONNECTION FOR
SINGLE CHORD TRUSS
PLAN VIEW

TYPE I SIGN CONNECTION
TO OVERHEAD SIGN SUPPORT

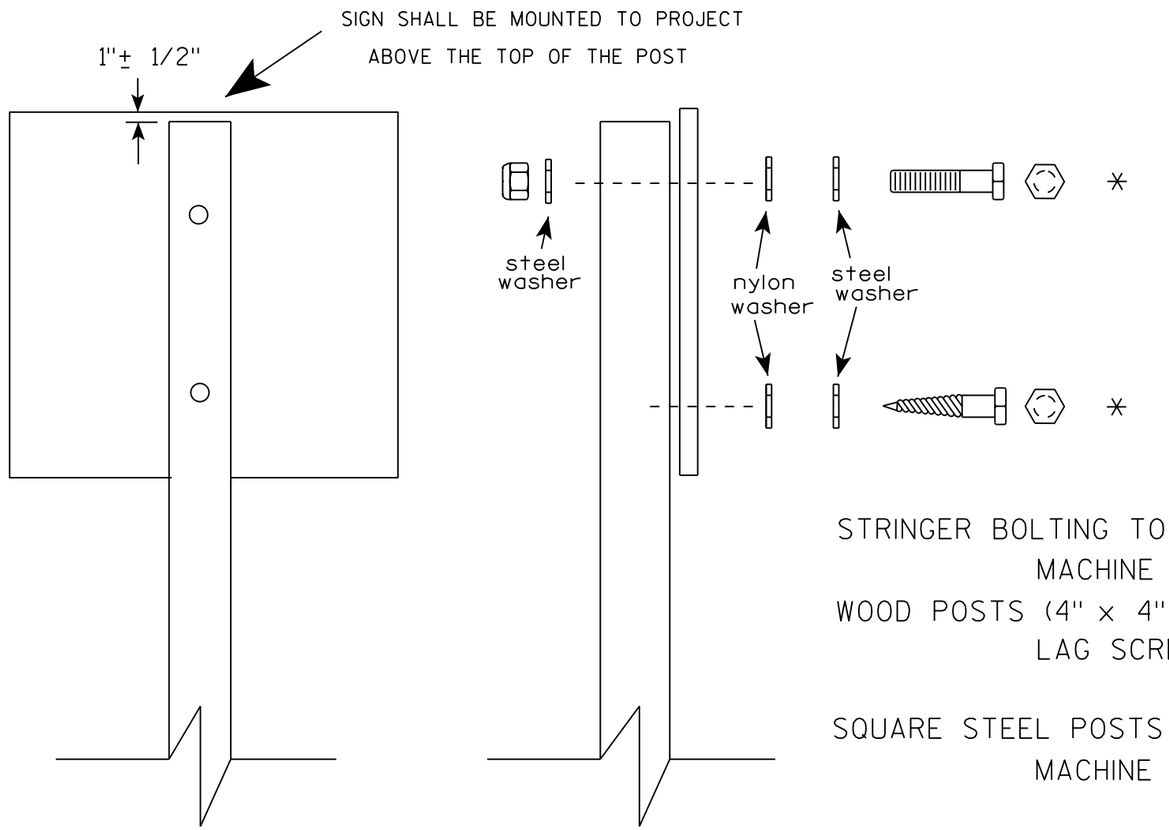
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/15 PLATE NO. A4-7.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A47.DGN PLOT DATE : 01-DEC-2015 17:42 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 38.916838:1.000000



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

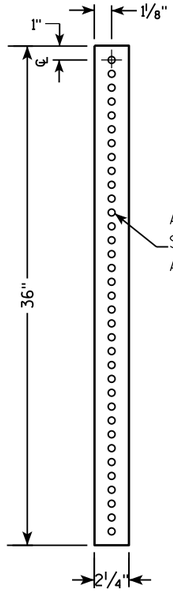
PROJECT NO:

SHEET NO: E

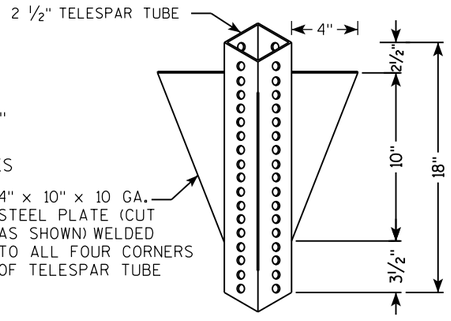
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

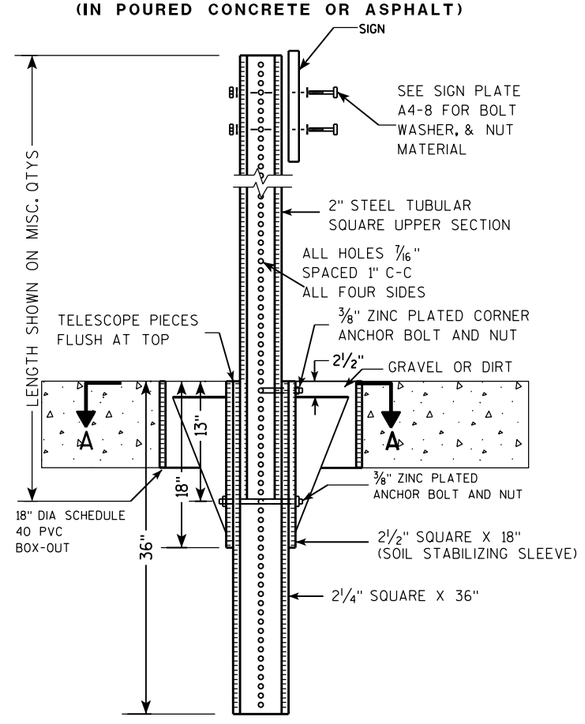
2 ¼ " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



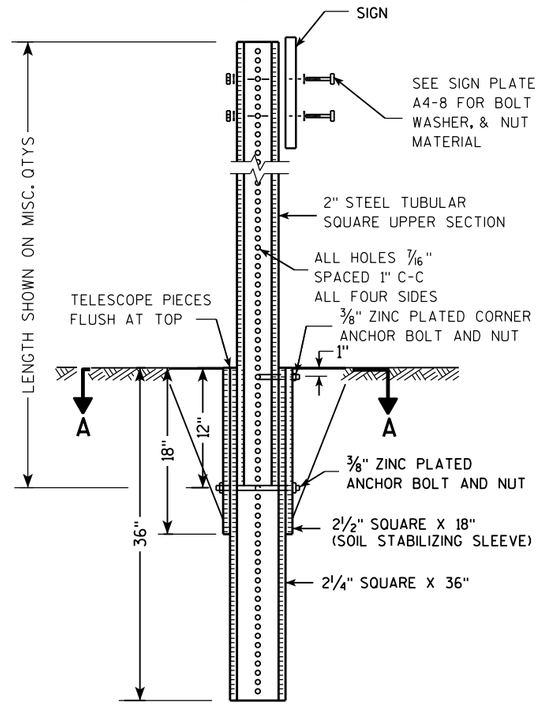
2 ½ " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

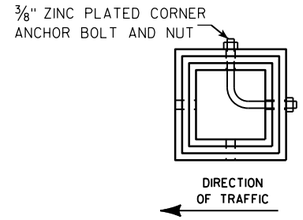


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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

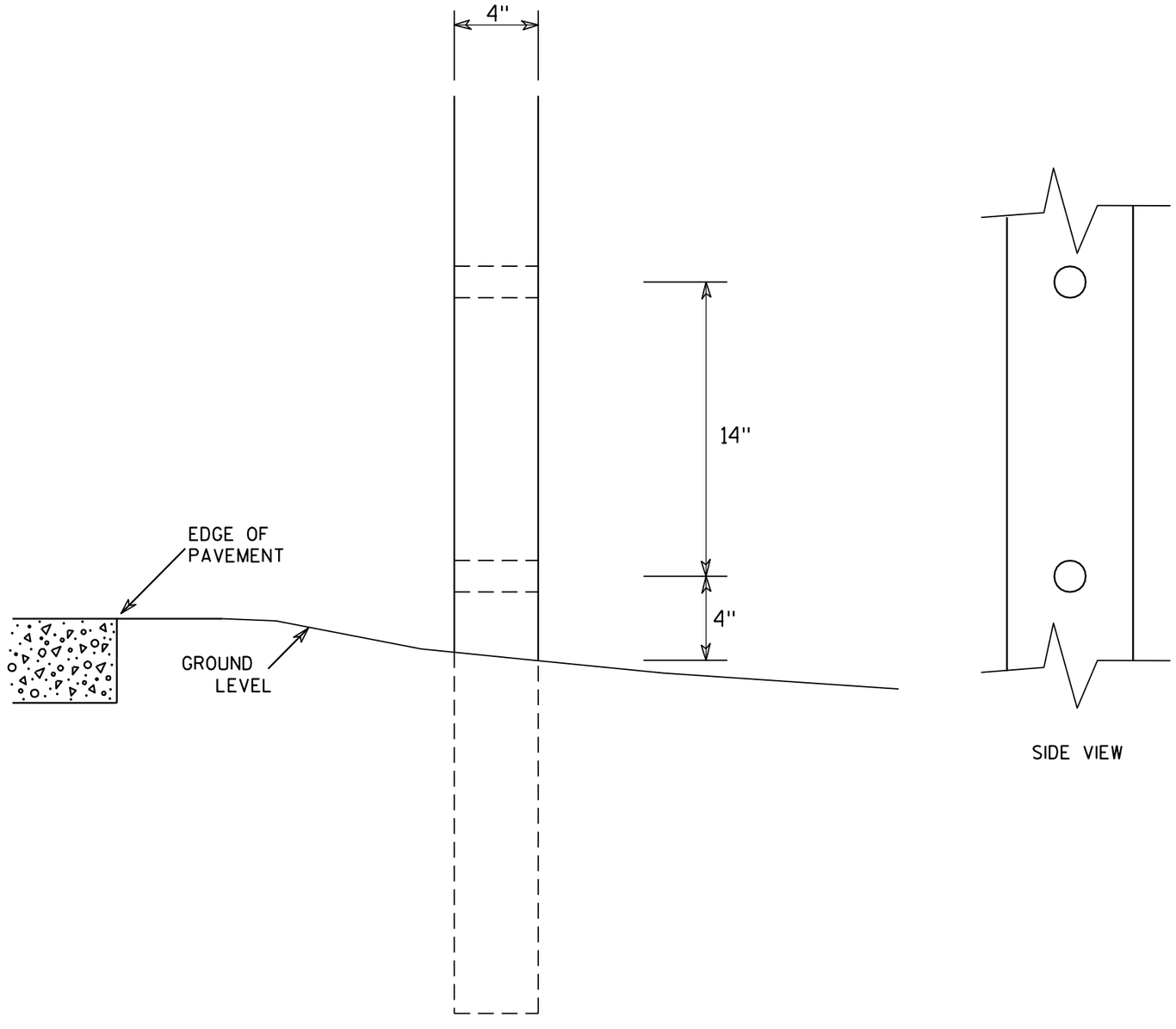
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42



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

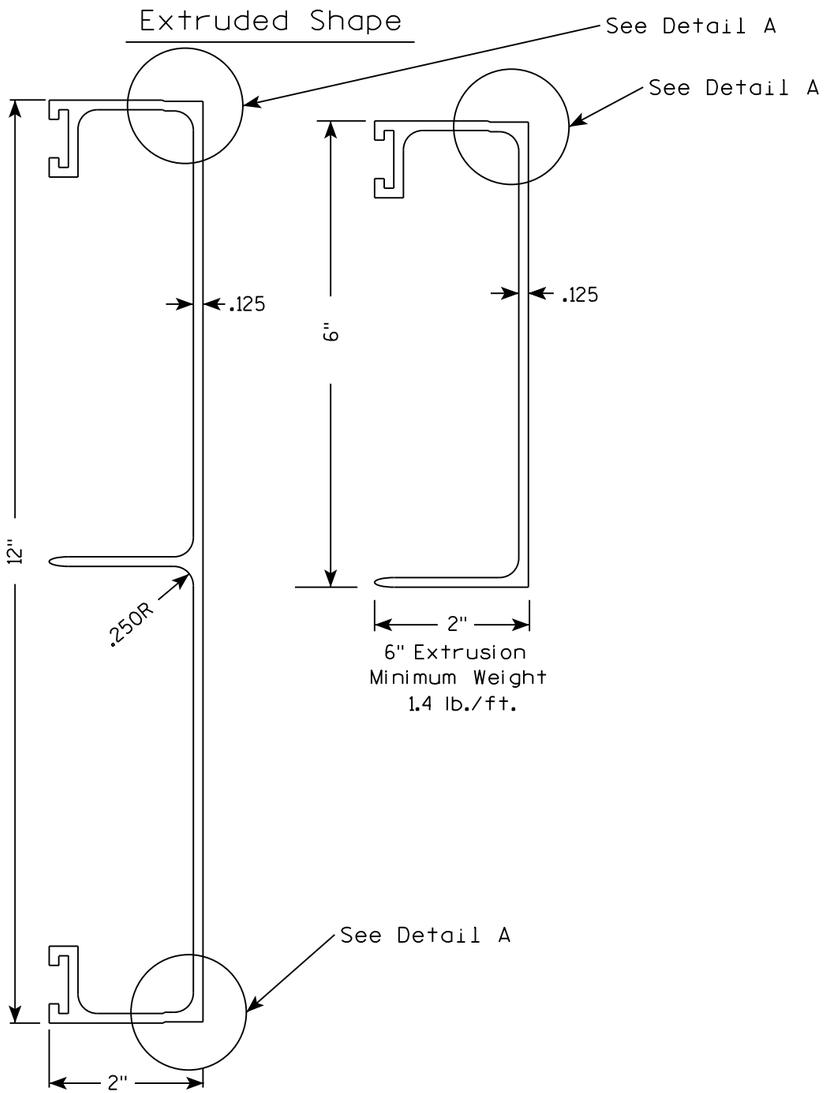
WISCONSIN DEPT OF TRANSPORTATION

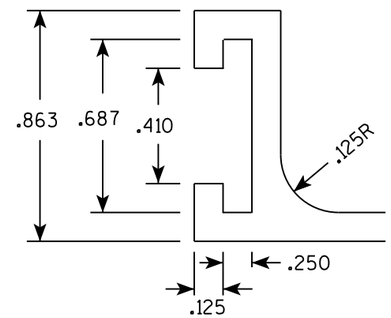
APPROVED Chester J Spang for State Traffic Engineer

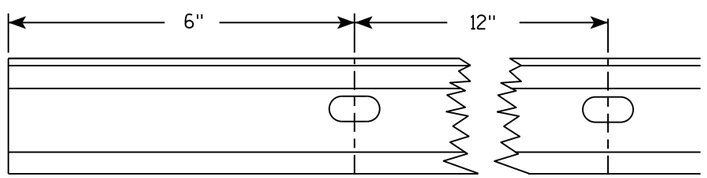
DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 432	E

Extruded Shape







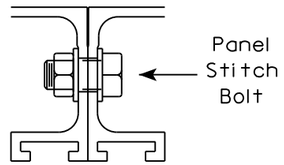
Punch 7/16" x 7/8" oval holes beginning 6" in from end of extrusion 12" CC on both edges of 6" and 12" panels.

Hardware

STITCH BOLT, WASHER & NUT

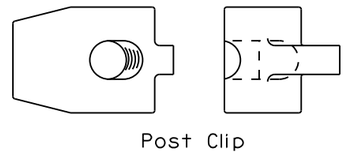
The hardware includes:

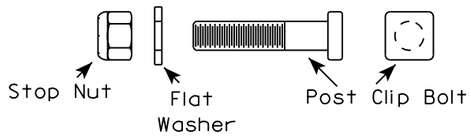
3/8 " - 16 X 3/4 " Economy Bolt 2024-T4 alloy
3/8 " - Stainless steel stop nut
3/8" X .064 Flat Washers, Alclad 2024-T4 alloy



POST CLIP, POST CLIP BOLT, WASHER & NUT

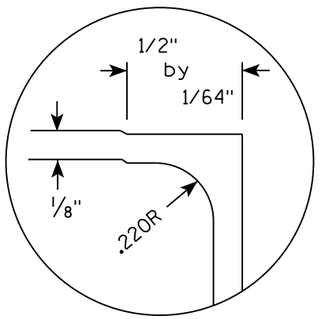
Post Clip shall be Alum. Alloy 356-T6
Post Clip Bolt shall be Stainless Steel.
Flat washer shall be 3/8" X .091, Stainless Steel.
Stop nut shall be stainless steel.





NOTES

1. The contractor may select any brand of extrusion that conforms to the illustrations or meets with the approval of the engineer, but all extrusions used on this contract shall be of the same brand.
2. Panel Stitch Bolts shall be used to assemble adjacent panels. Maximum stitch bolt spacing shall be 24" C-C, and a minimum of 4 bolts shall be used to connect any two extrusions.
3. Post Clips shall be used to attach the sign panel to the sign support.
4. Edge wrapping of sign sheeting required on all extrusions joints shown in Detail A.



DETAIL A (EDGE WRAP JOINT)

ALUMINUM EXTRUSIONS FOR TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

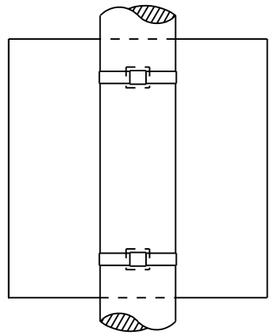
APPROVED Matthew R Rauch
for State Traffic Engineer

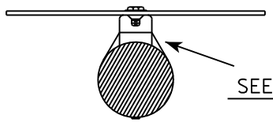
DATE 11/30/16 PLATE NO. A5-2.10

PROJECT NO:				SHEET NO: 433	E

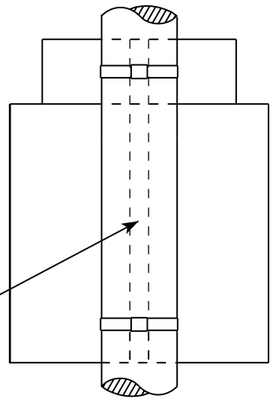
BANDING

SINGLE SIGN



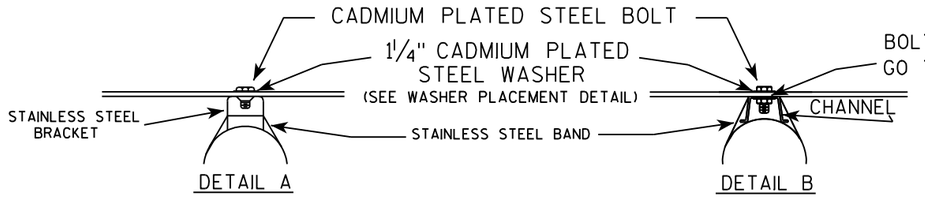


"J" ASSEMBLY

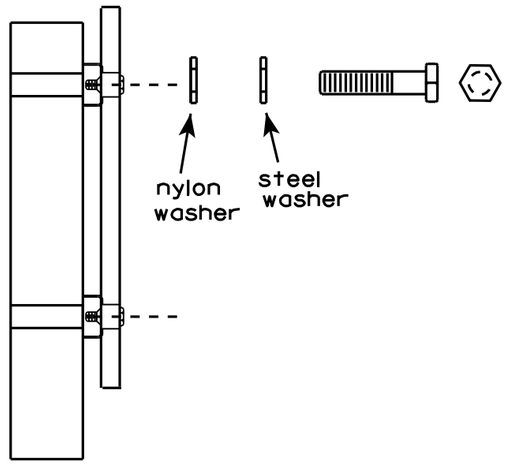


CHANNEL
SEE TYPICAL PANEL INSTALLATION SHEET





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 ¾" in width and 0.025" thickness.

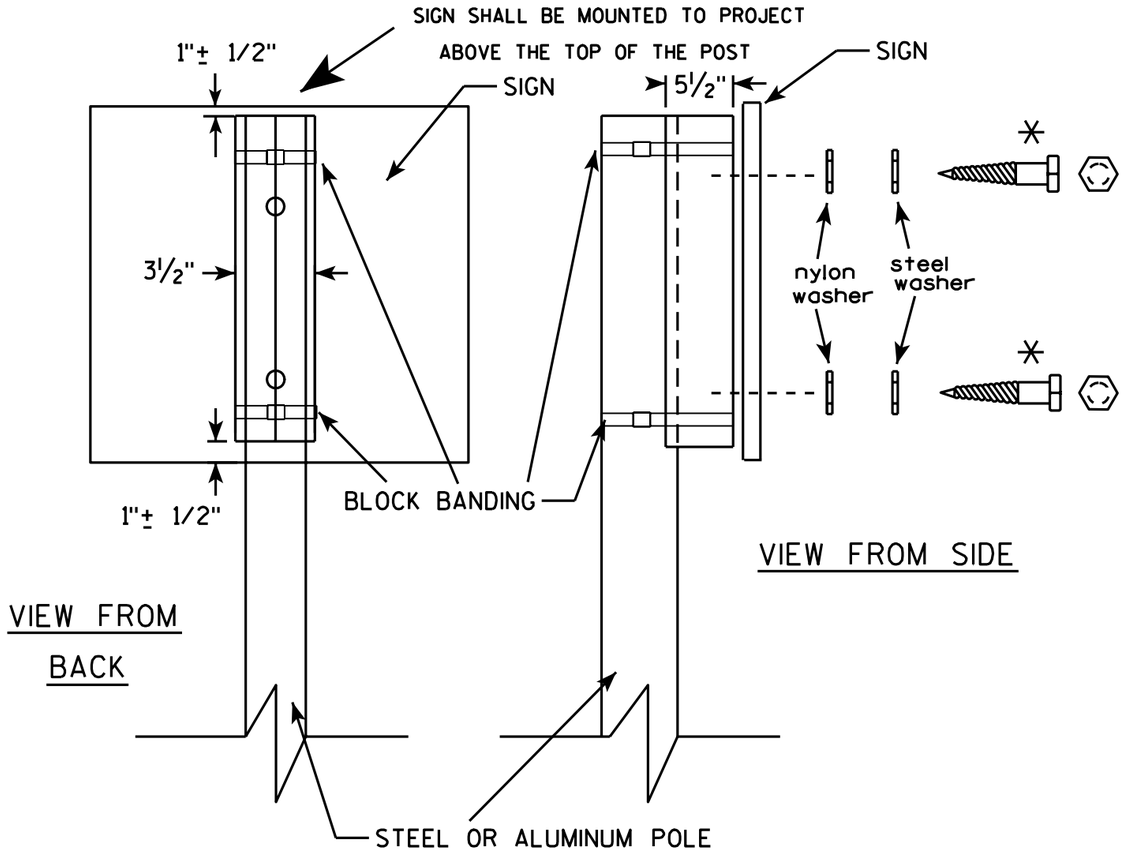
STANDARD SIGN
SIGN BANDING DETAILS

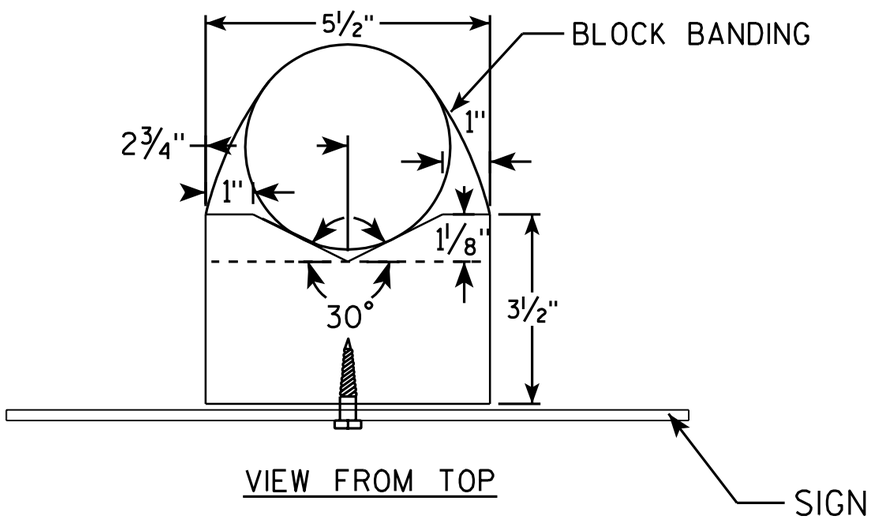
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 434	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

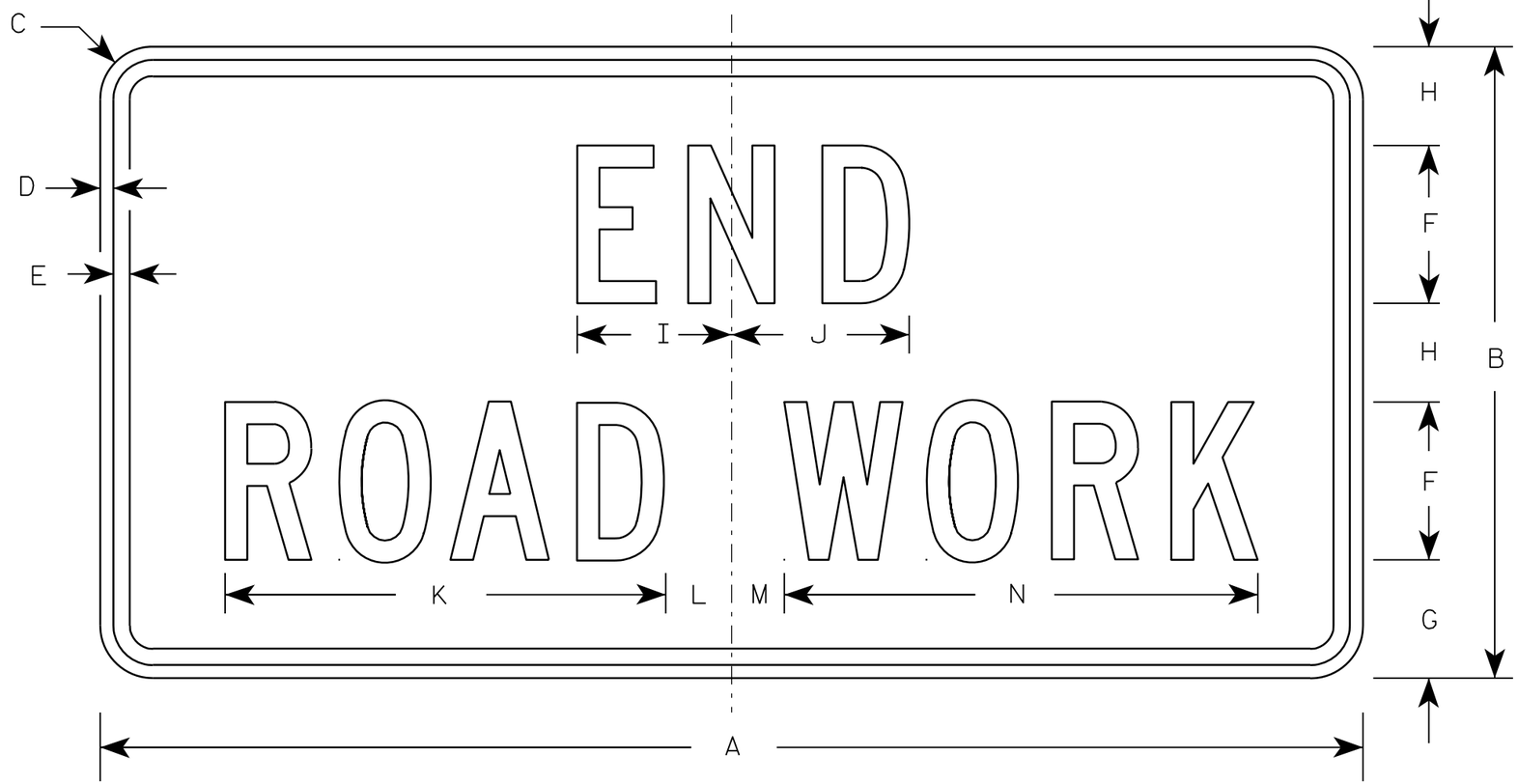
DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

SHEET NO: 435 E

FILE NAME : C:\Users\Projects\tr_stdplate\A510.dgn PLOT DATE : 06-AUG-2007 13:37 PLOT BY : ditjph

WISDOT/CADDS SHEET 42



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

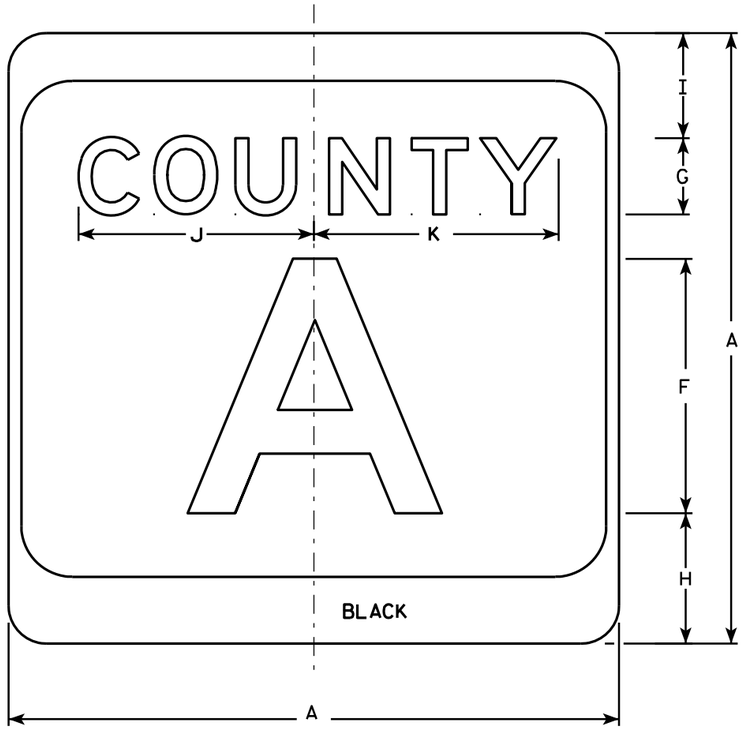
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

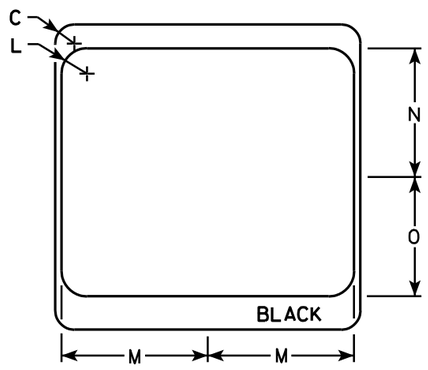
APPROVED Matthew R Rauch
for State Traffic Engineer

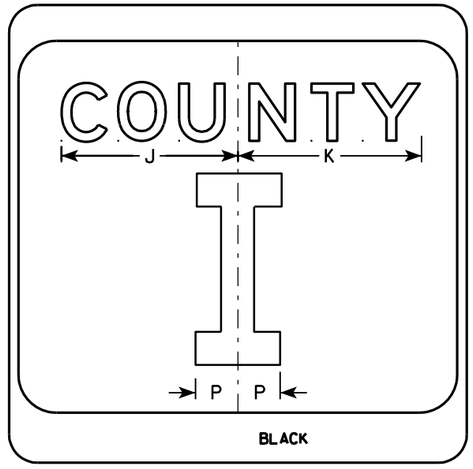
DATE 9/30/09 PLATE NO. G20-2A.8

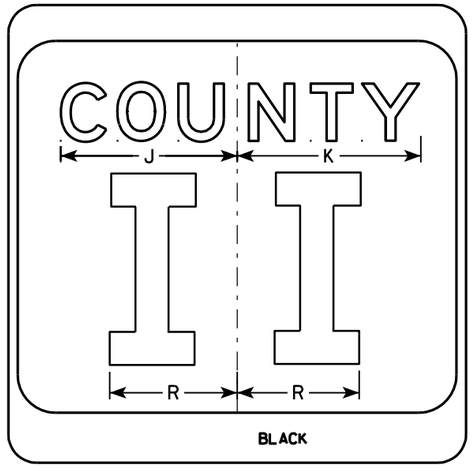
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 436	E



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

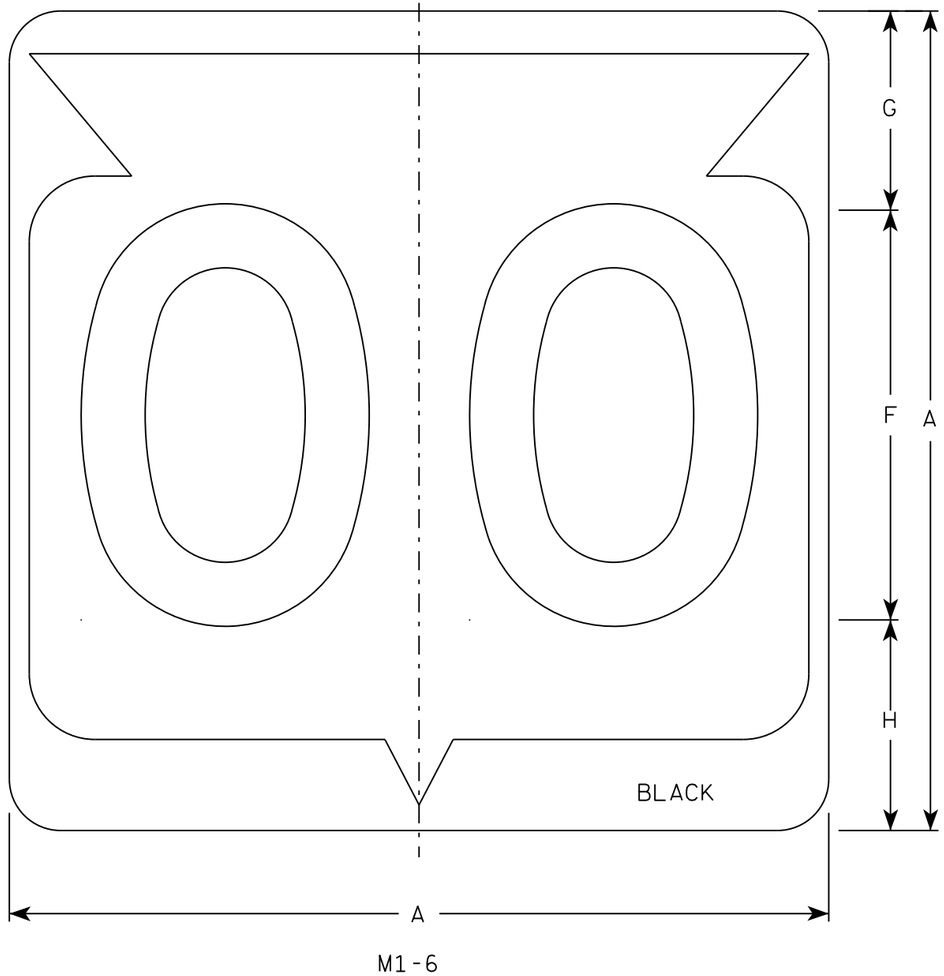
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

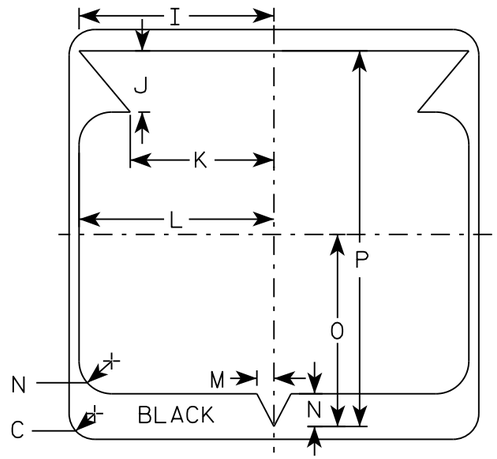
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 437	E



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

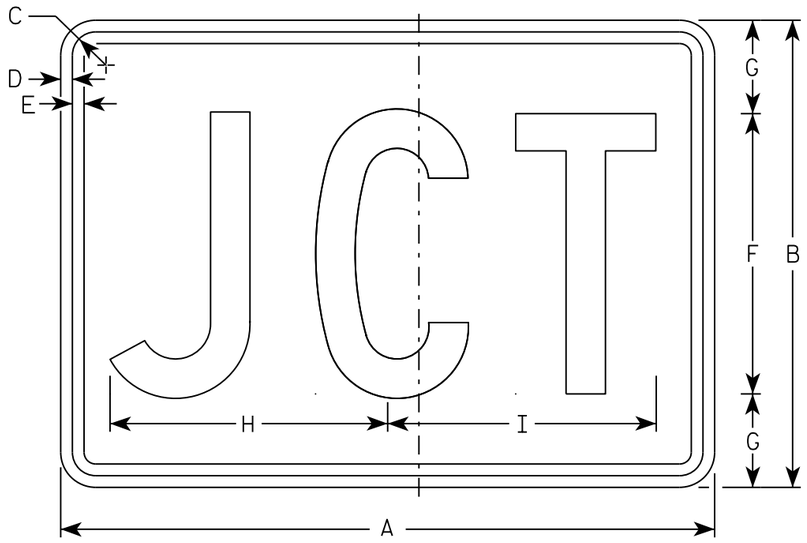
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

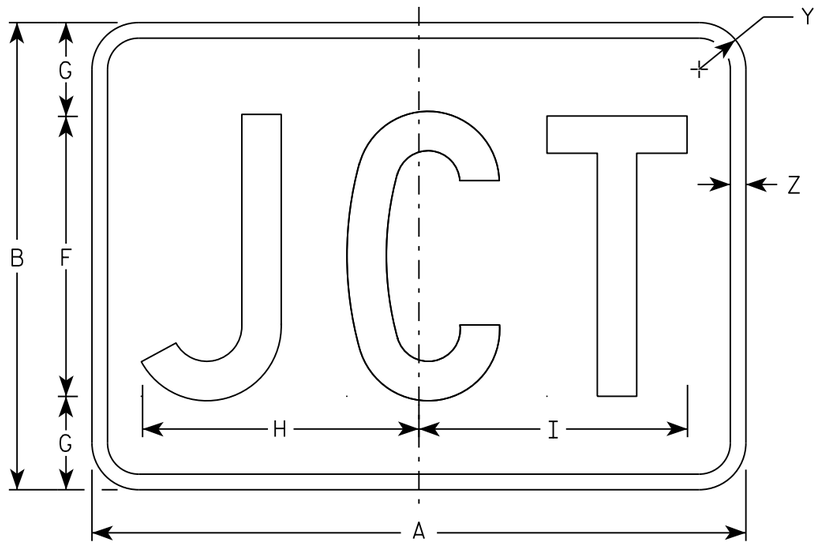
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 438	E



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

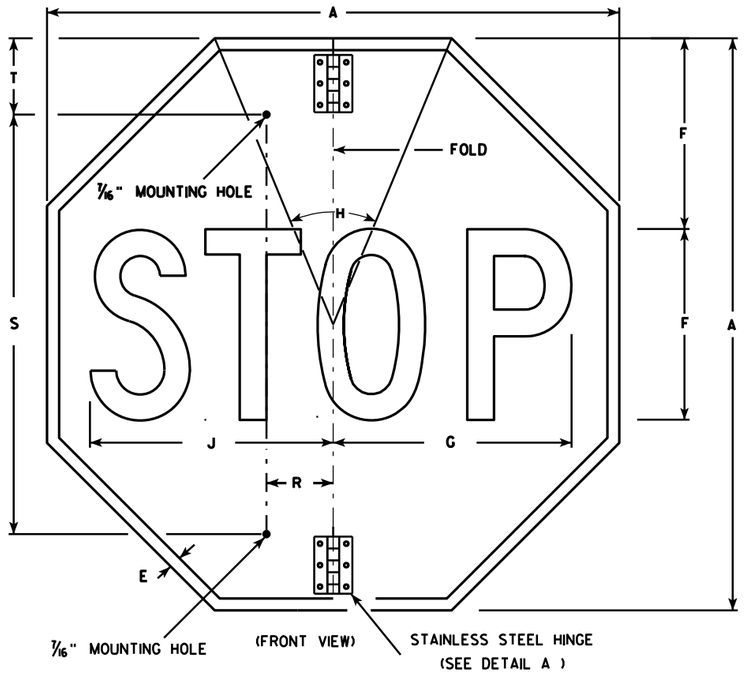
WISCONSIN DEPT OF TRANSPORTATION

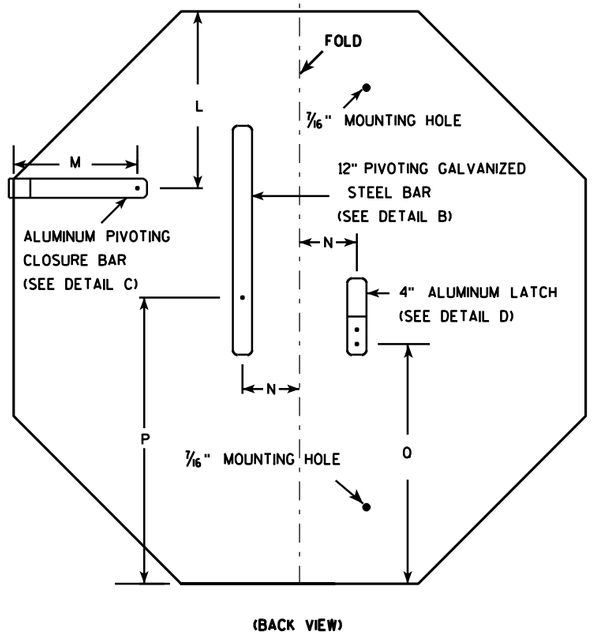
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 439 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

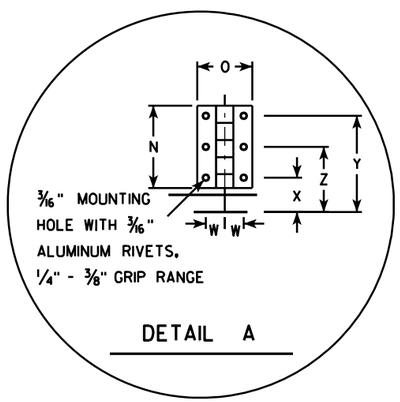
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



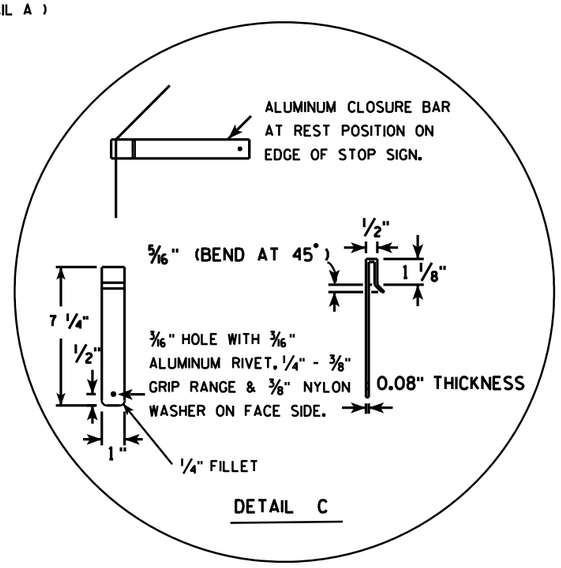


NOTES

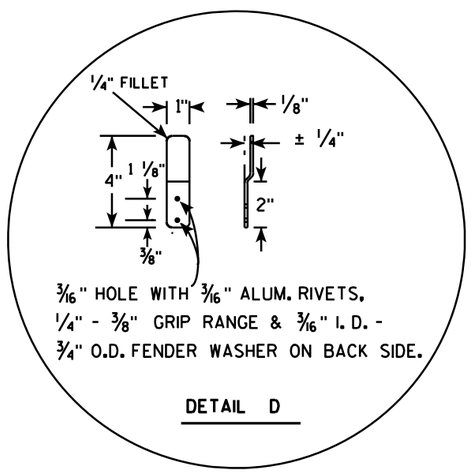
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.



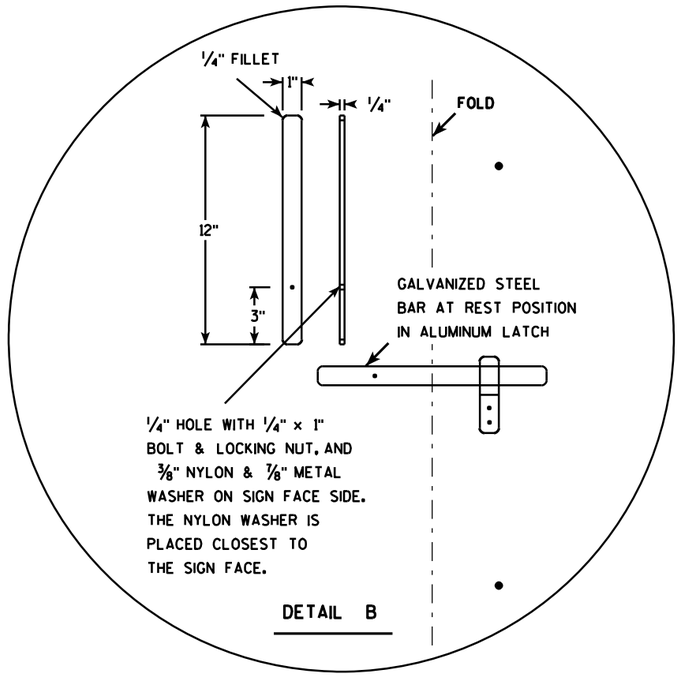
DETAIL A



DETAIL C



DETAIL D



DETAIL B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

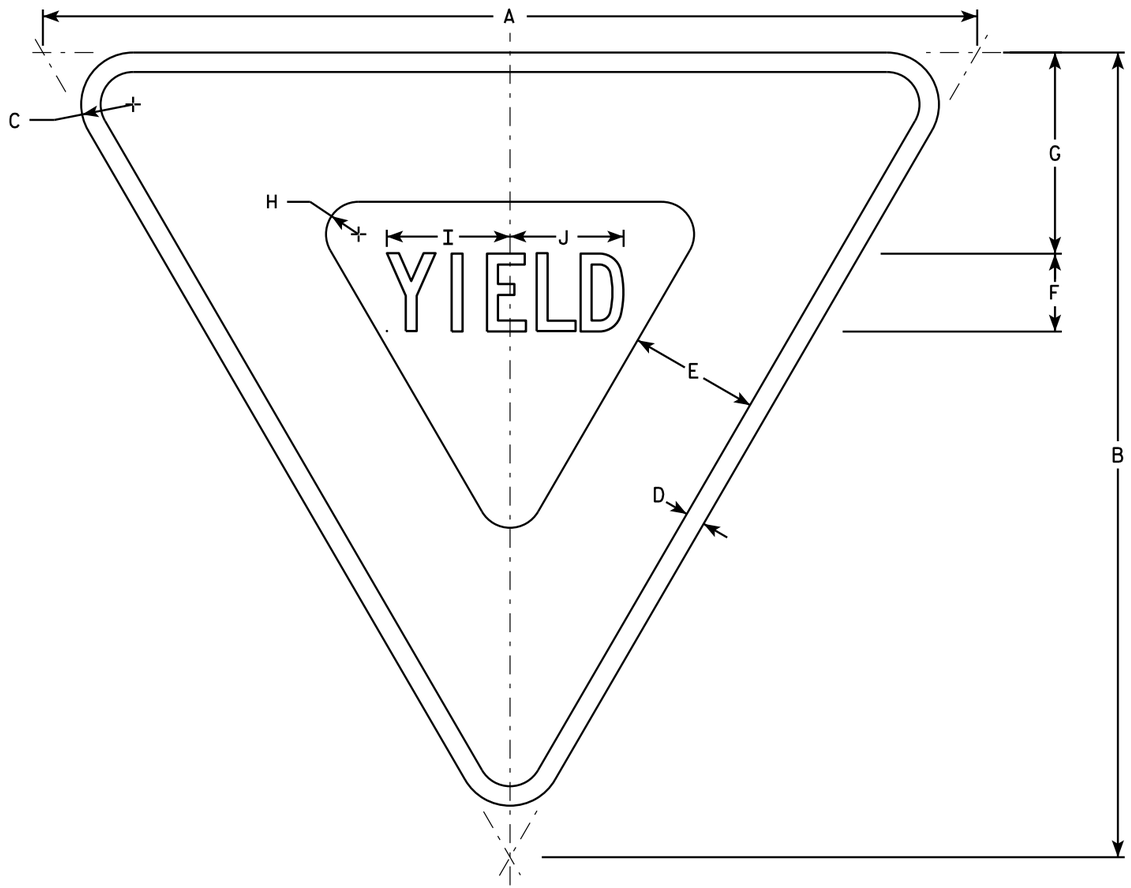
STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 440	E



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

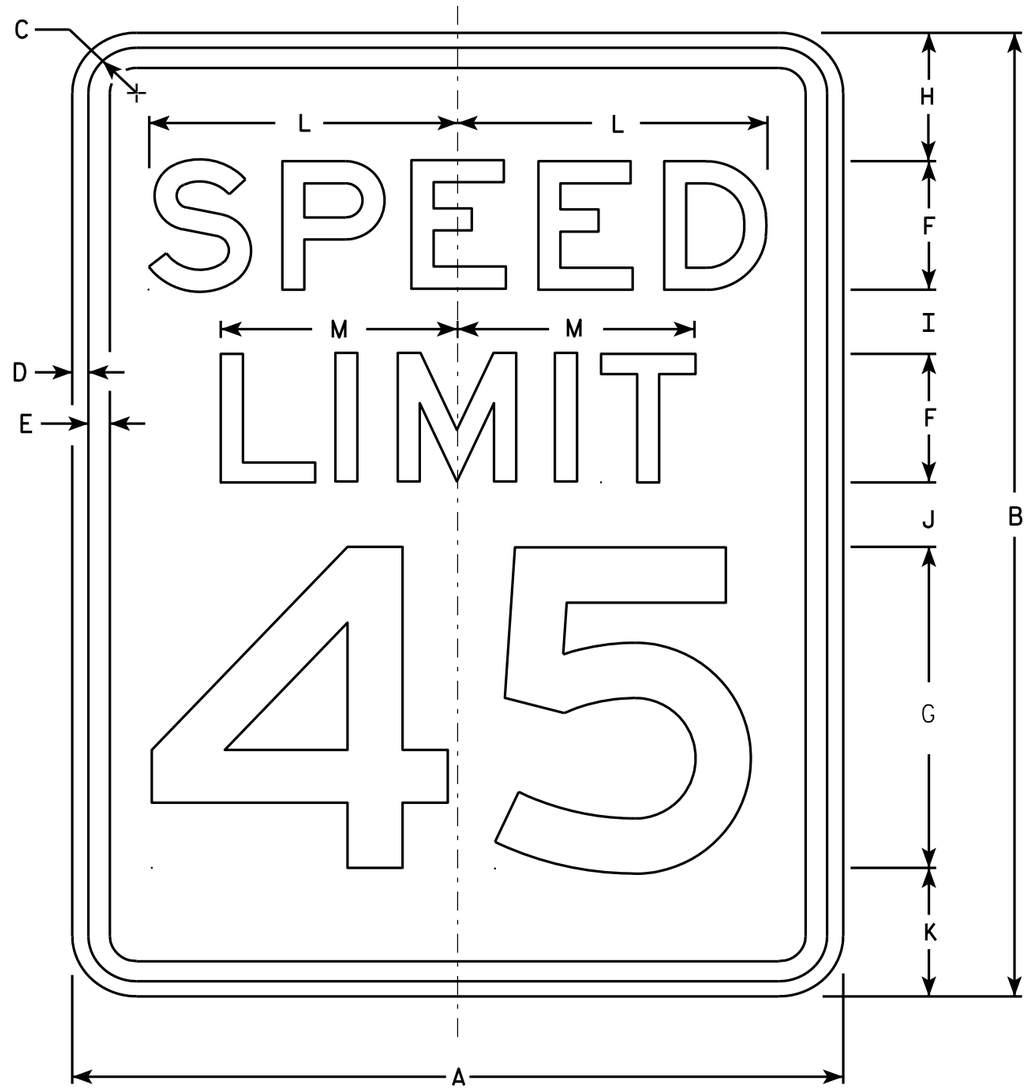
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE R1-2.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R12.DGN PLOT DATE : 13-OCT-2014 15:12 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000
WISDOT/CADDS SHEET 42



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

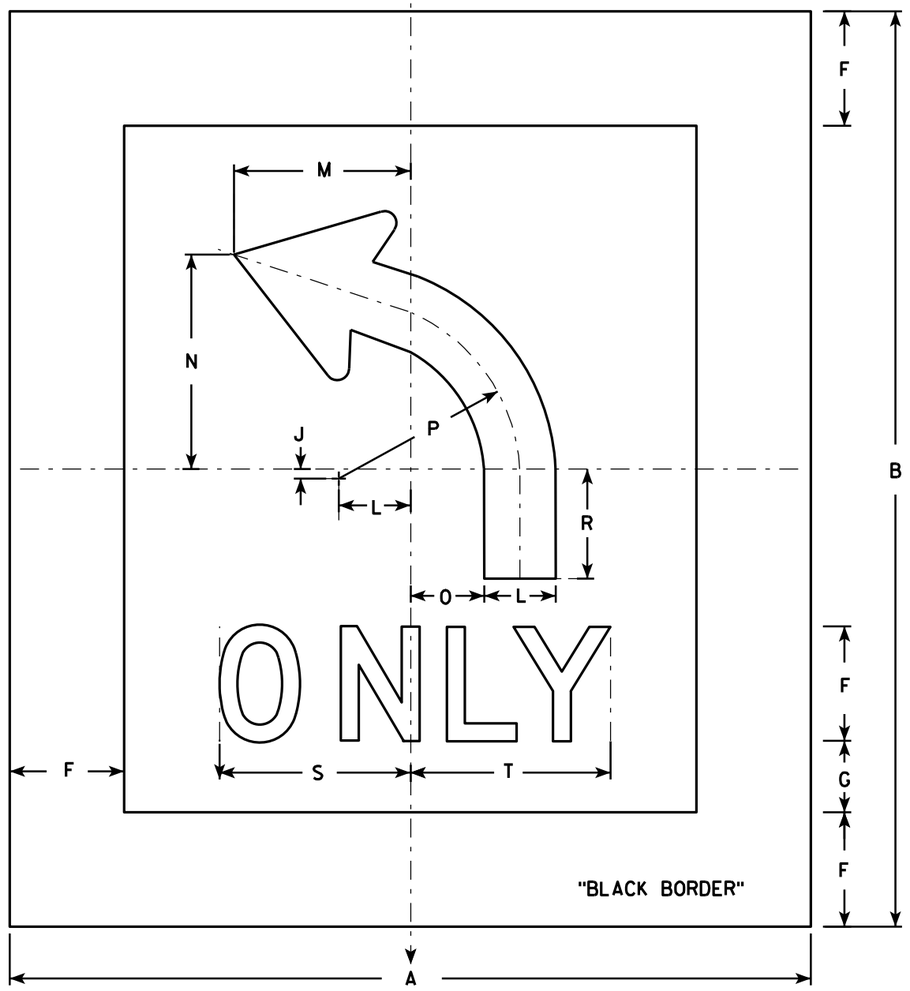
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

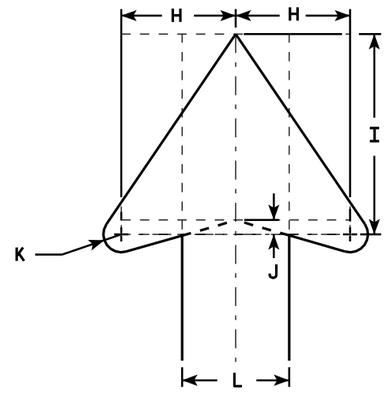
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 442 | E



R3-5L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
5. R3-5R is the same as R3-5L except curved portion of arrow points right.
6. The 6" border is non-reflective black.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	42	48				6	3 3/4	4	7	1/2	5/8	3 3/4	9 1/4	11 1/4	3 7/8	9 1/2		5 3/4	10	10 1/2							1.26
2M	42	48				6	3 3/4	4	7	1/2	5/8	3 3/4	9 1/4	11 1/4	3 7/8	9 1/2		5 3/4	10	10 1/2							1.26
3																											
4																											
5																											

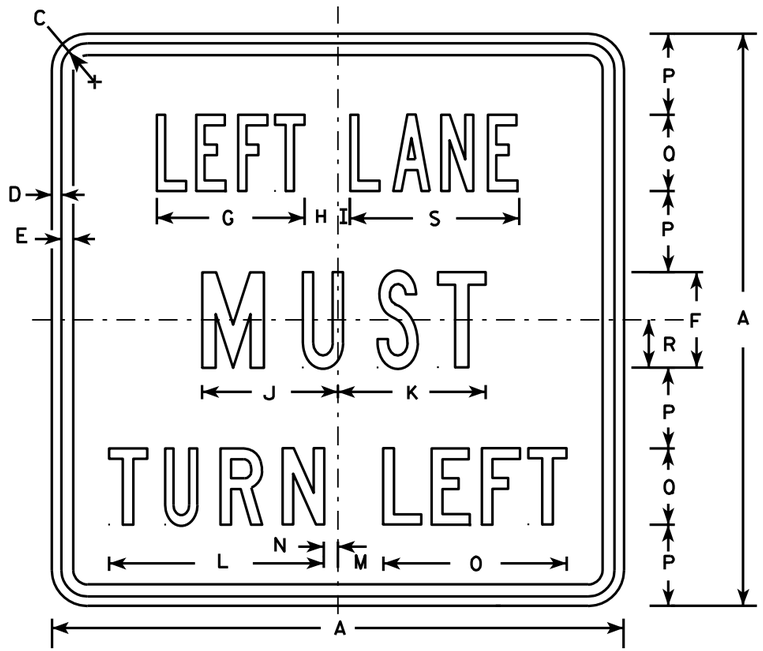
STANDARD SIGN
R3-5

WISCONSIN DEPT OF TRANSPORTATION

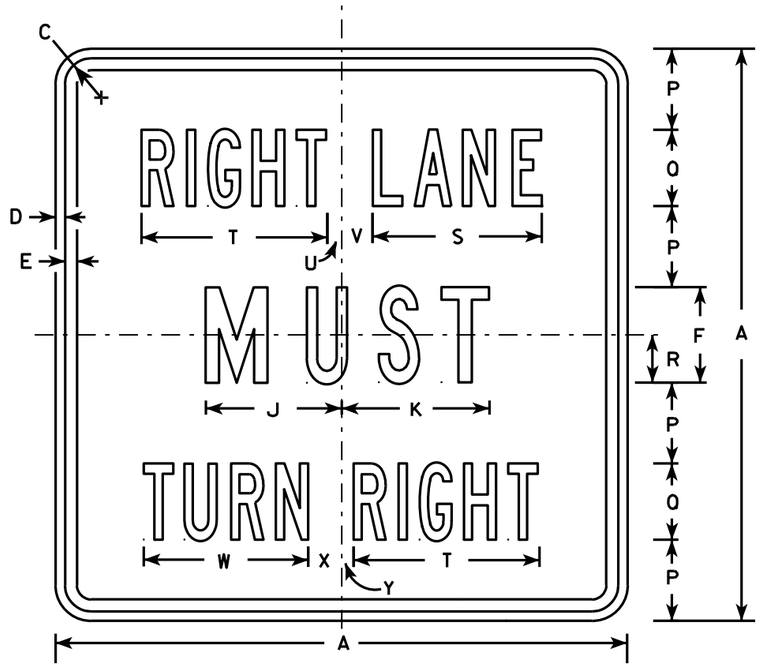
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/24/11 PLATE NO. R3-5.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 443 | E



R3-7L



R3-7R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Line 1 is Series B.
   Line 2 is Series C.
   Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2S	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2M	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
3	36		1 5/8	5/8	3/4	6	9 5/8	2	1 1/8	8 3/4	9	13 1/2	3 7/8	1 1/2	12 1/2	5	5	3	10 5/8	12	7/8	2 1/4	10 5/8	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 1/2	11 1/2	11 7/8	17 3/4	3 5/8	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 7/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

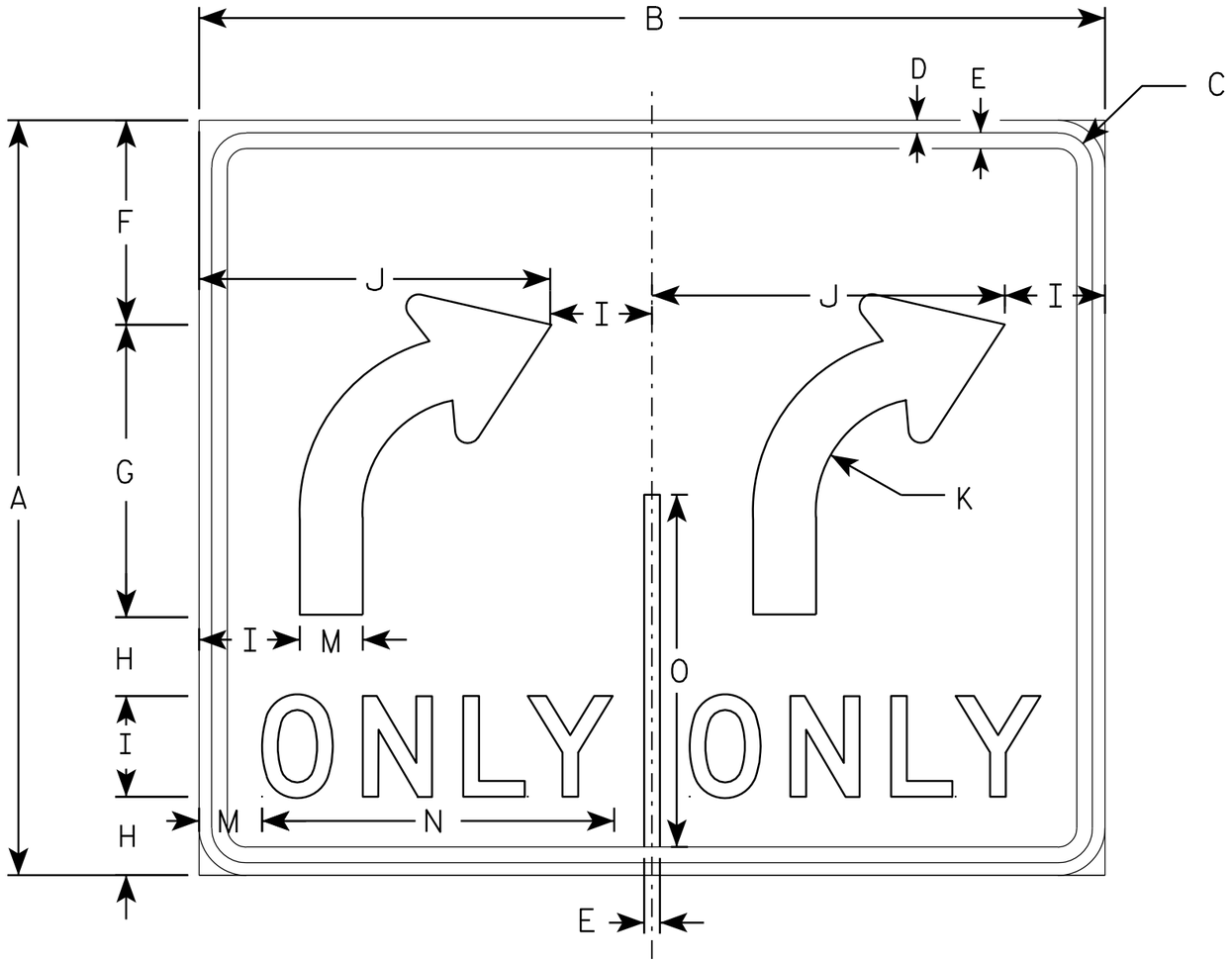
STANDARD SIGN
R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-7.3

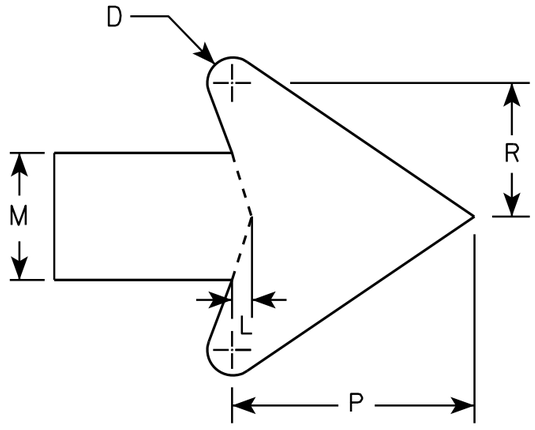
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 444	E



R3-8MM

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	3/8	2 1/2	14	14	4 3/4		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	3/8	2 1/2	14	14	4 3/4		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	5/8	3 3/4	20 5/8	22 3/8	7 1/8		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	5/8	3 3/4	20 5/8	22 3/8	7 1/8		4									18.0

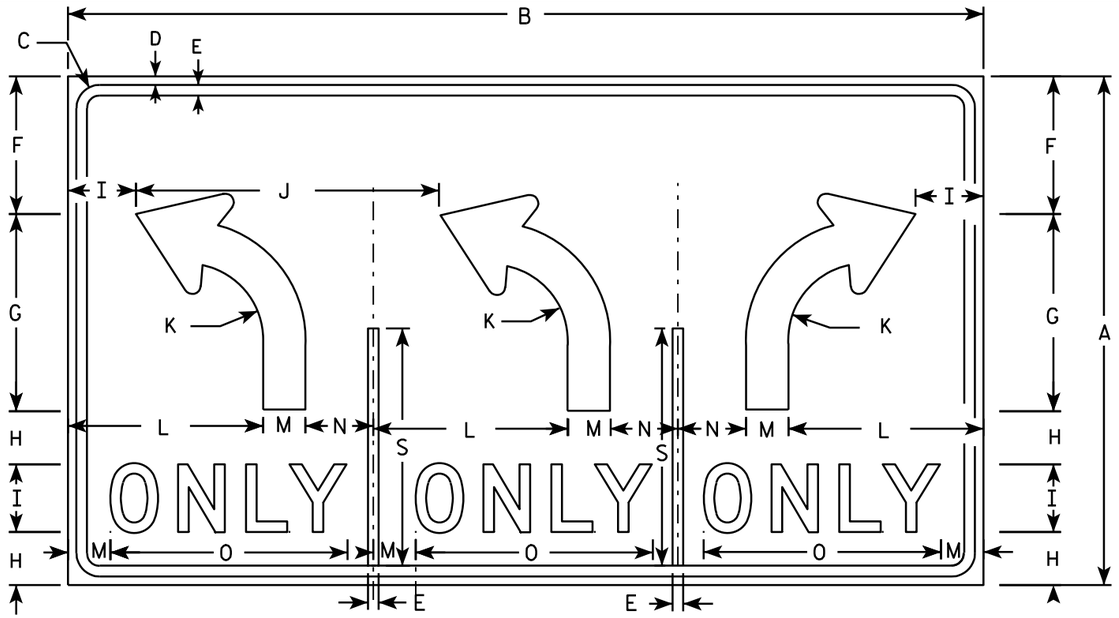
STANDARD SIGN
R3-8MM

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/2011 PLATE NO. R3-8MM.2

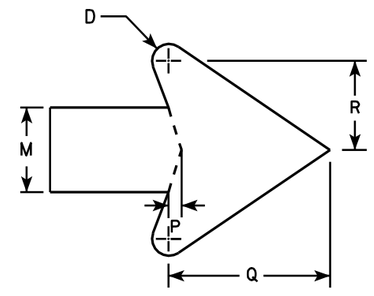
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 445 | E



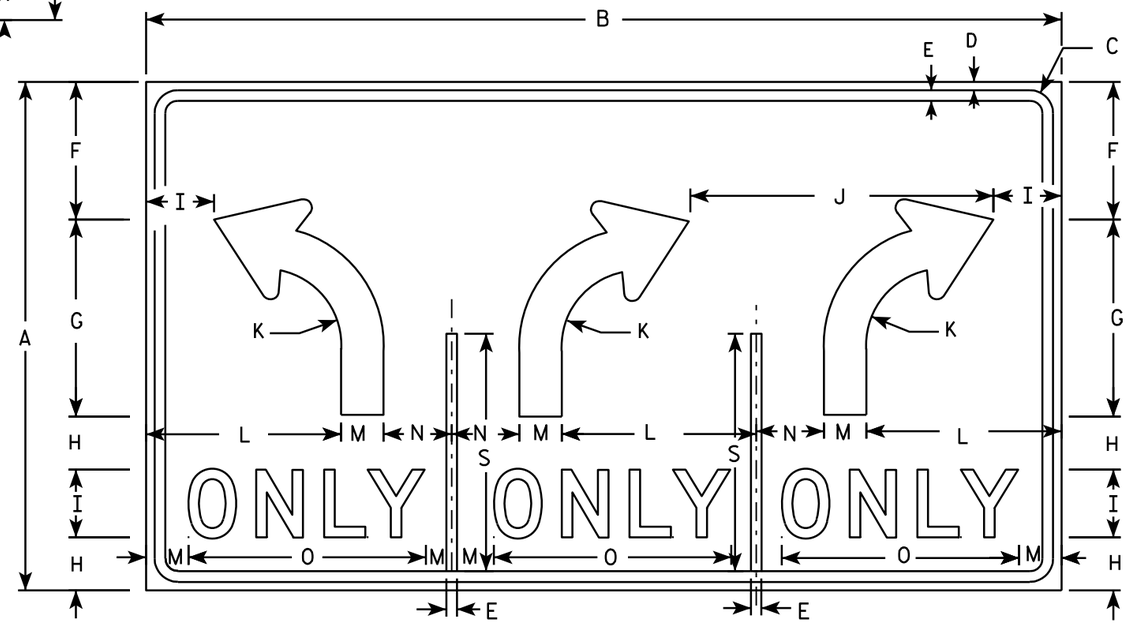
R3-8R

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



R3-8S

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	54	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	17 7/8	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14								11.25
2M	30	54	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	17 7/8	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14								11.25
3																											
4	48	84	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6		7 1/4	17 1/4	3 3/4	7	20 5/8	5/8	7 1/8	4	22 3/8								28.0
5	48	84	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6		7 1/4	17 1/4	3 3/4	7	20 5/8	5/8	7 1/8	4	22 3/8								28.0

STANDARD SIGN
R3-8R & R3-8S

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

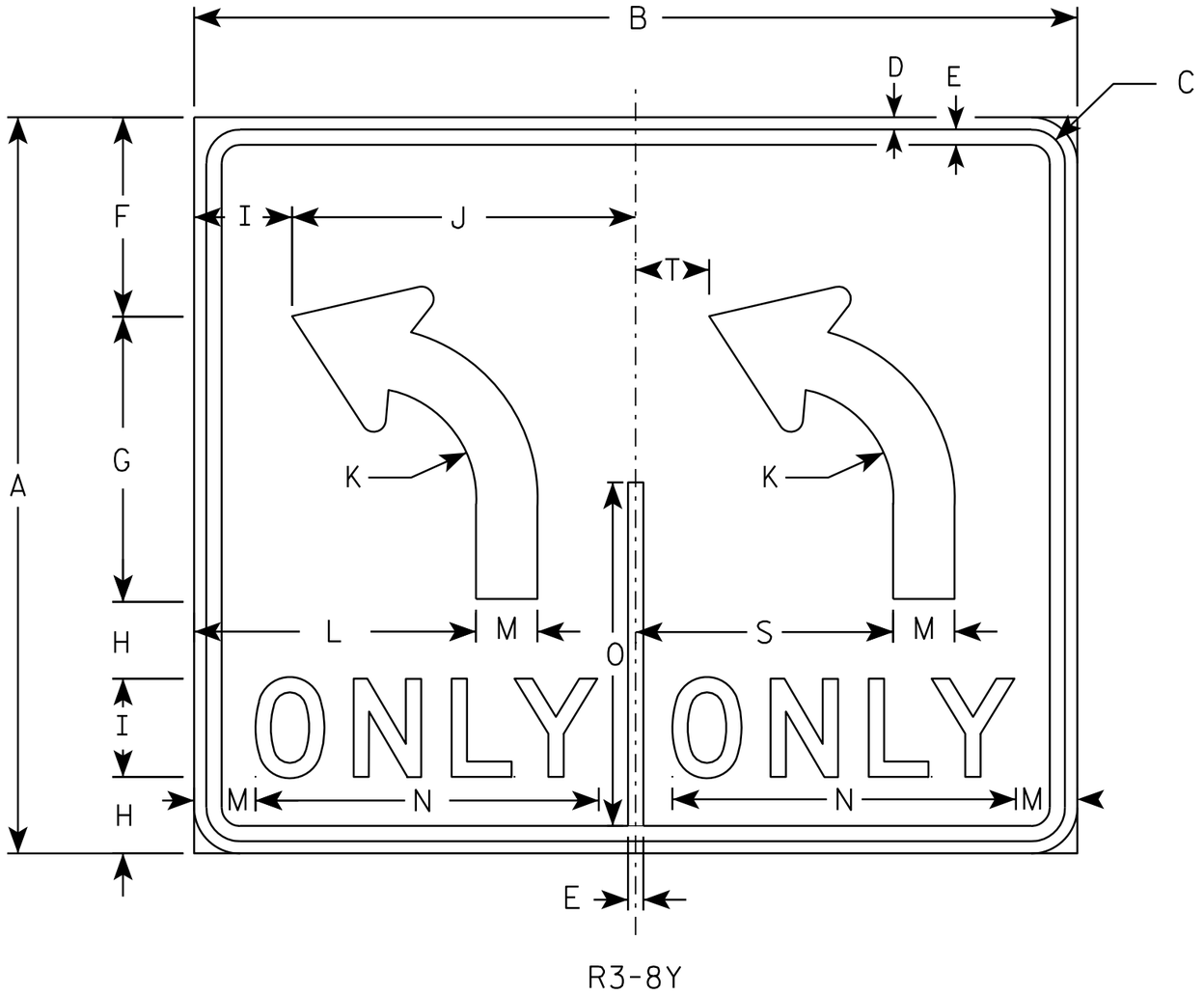
DATE 3/24/2011 PLATE NO. R3-8R.2

PROJECT NO:

SHEET NO: 446 E

7

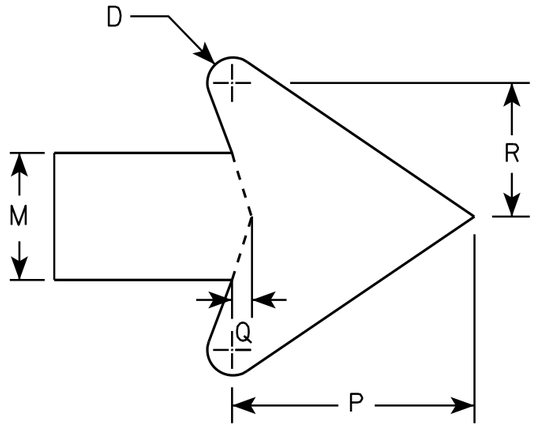
FILE NAME : C:\Users\PROJECTS\tr_stdplate\R38R.DGN PLOT DATE : 24-MAR-2011 09:49 PLOT BY : mscsja PLOT NAME :



R3-8Y

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	10 1/2	3							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	10 1/2	3							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	15 3/4	4 1/2							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	15 3/4	4 1/2							18.0

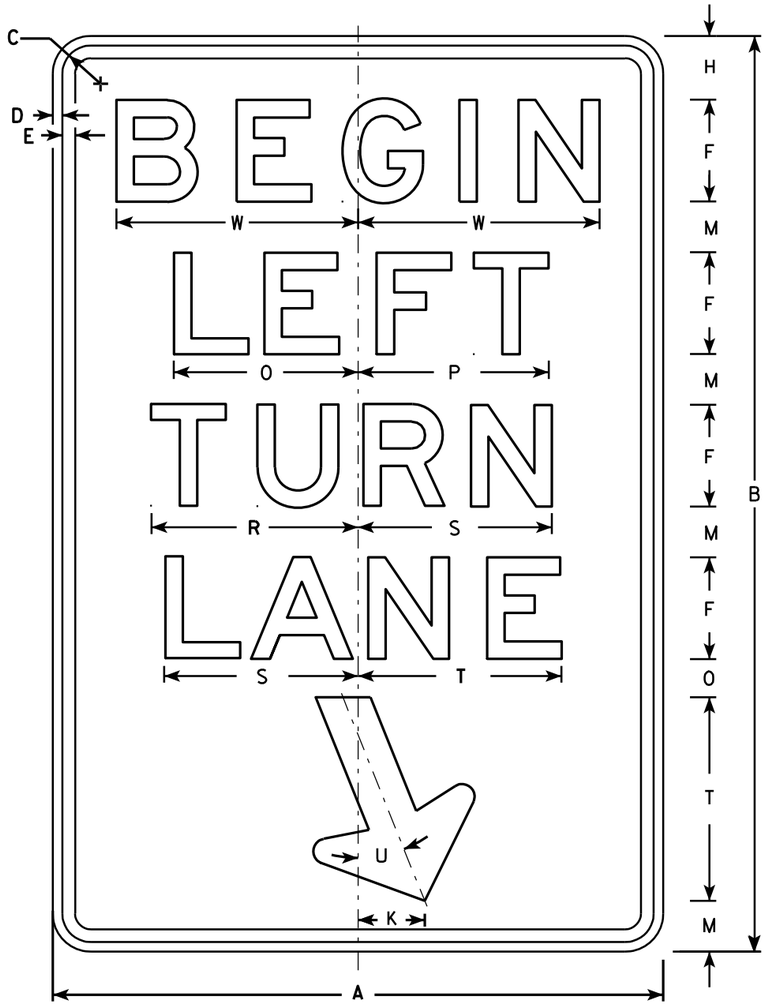
STANDARD SIGN
R3-8Y

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-8Y.2

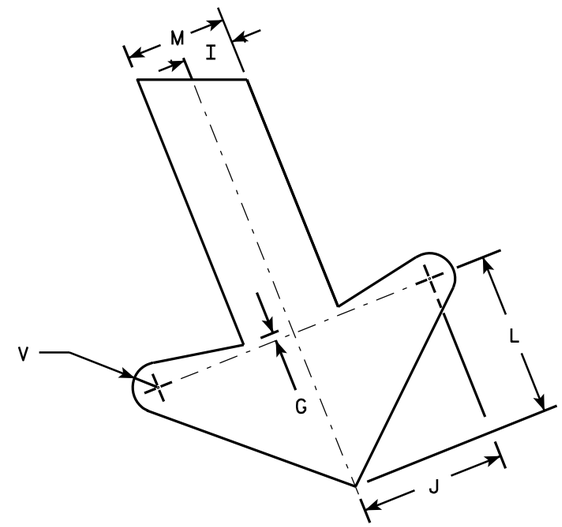
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 447	E



R3-20L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

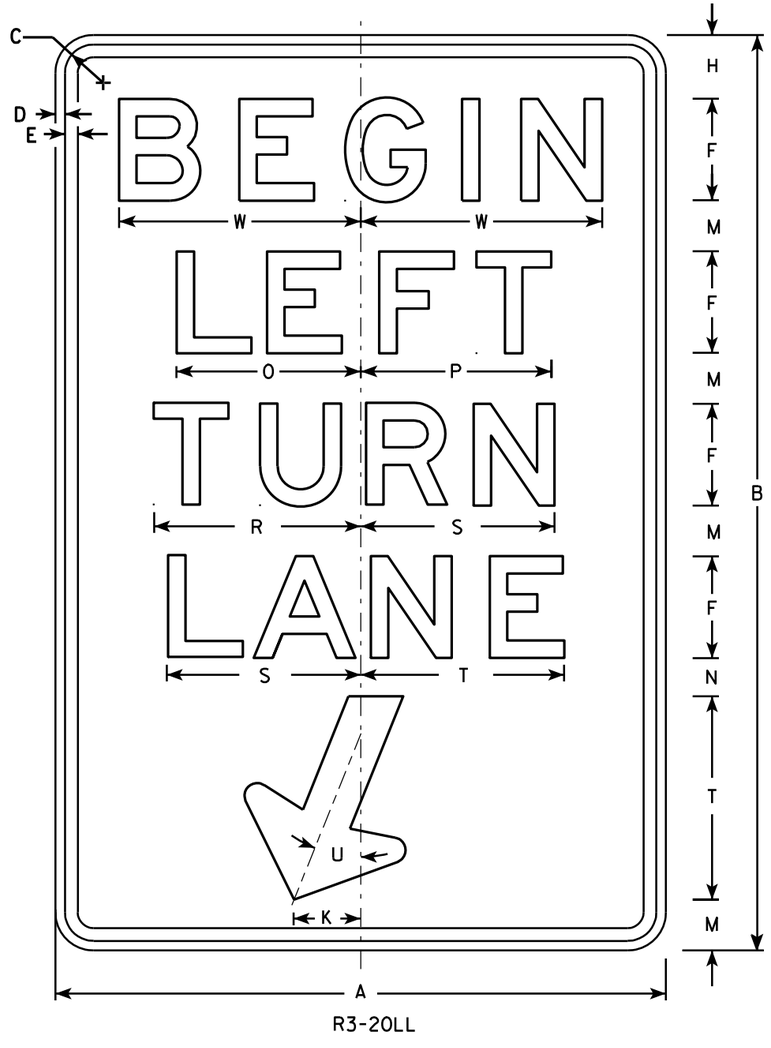
STANDARD SIGN
R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

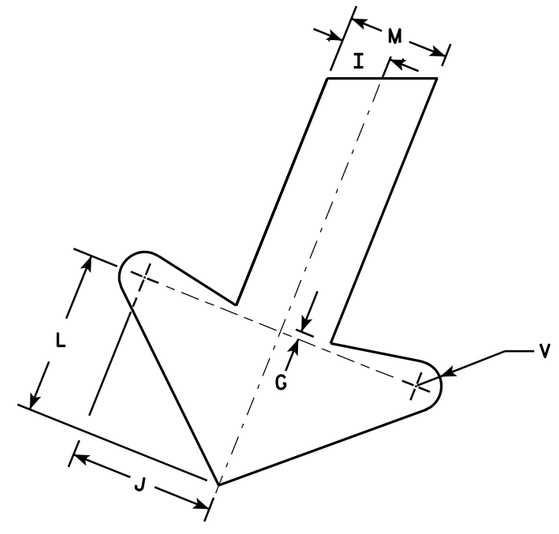
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 448 | E



R3-20LL

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

STANDARD SIGN
R3-20LL

WISCONSIN DEPT OF TRANSPORTATION

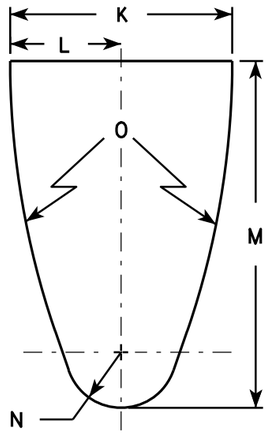
APPROVED Matthew R Rauch
for State Traffic Engineer

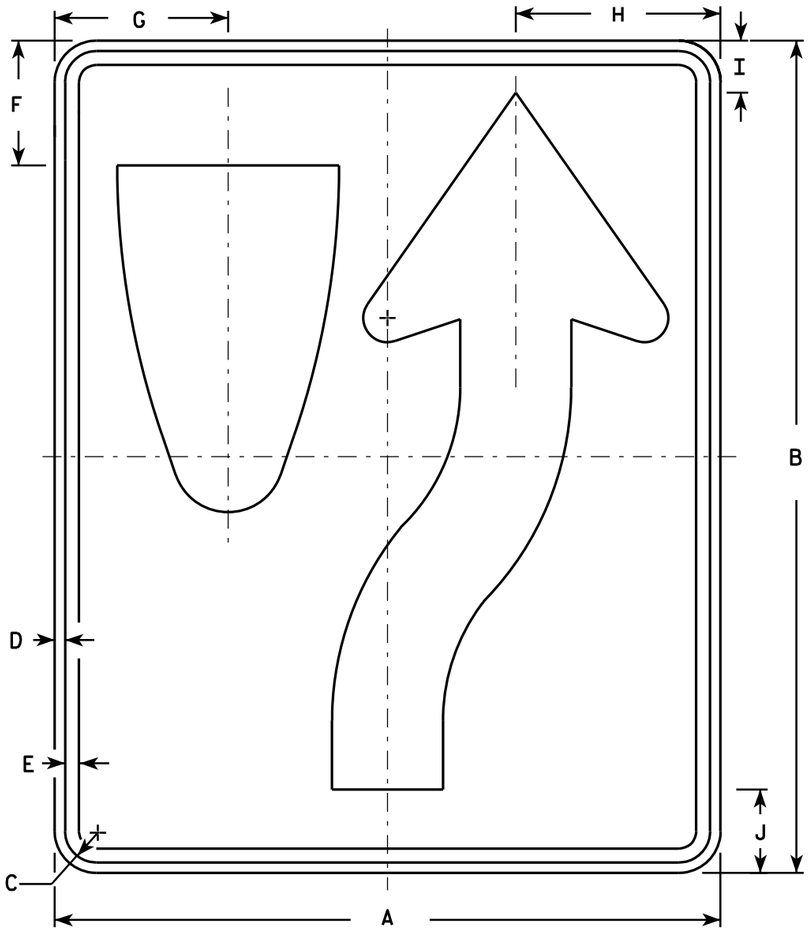
DATE 10/18/10 PLATE NO. R3-20LL.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 449	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R320LL.DGN PLOT DATE : 15-OCT-2010 14:38 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 5.959043:1.000000

WISDOT/CADDS SHEET 42

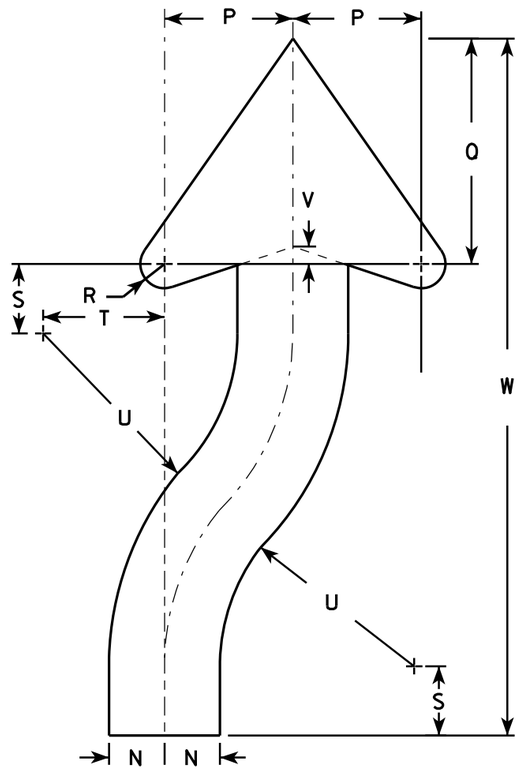




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

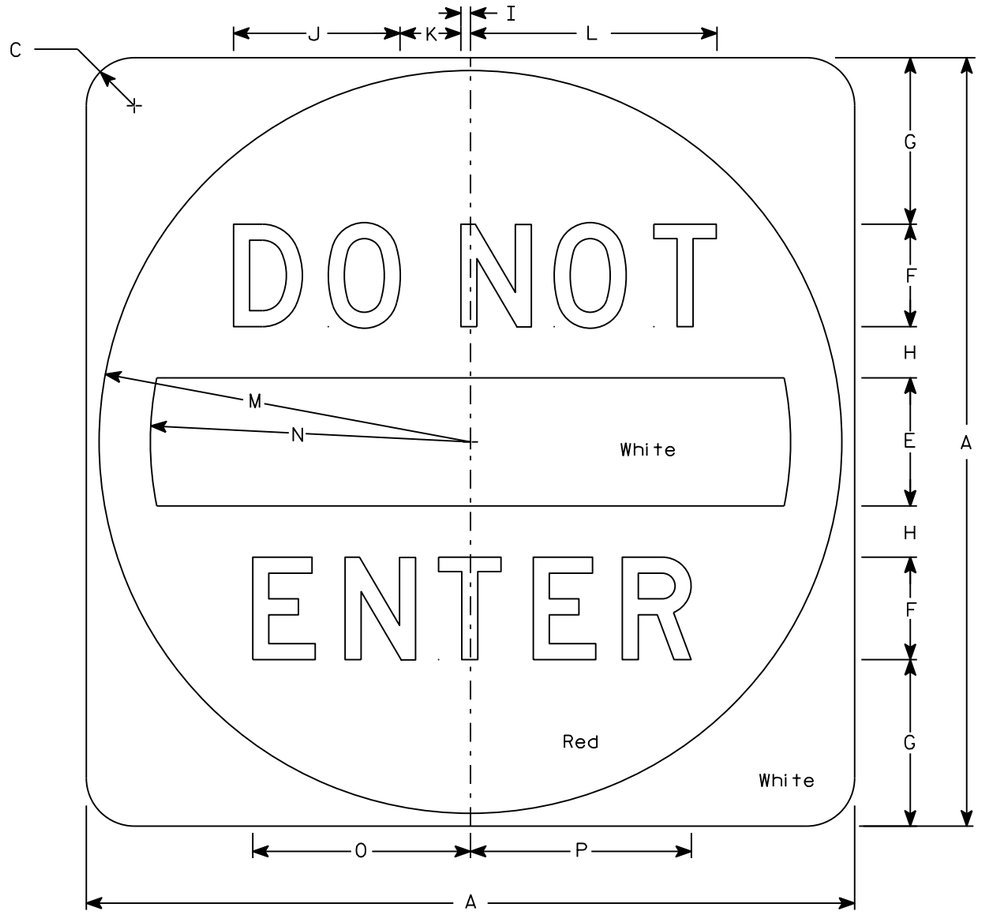
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 450	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - See detail
   Message - White
3. Message Series - D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

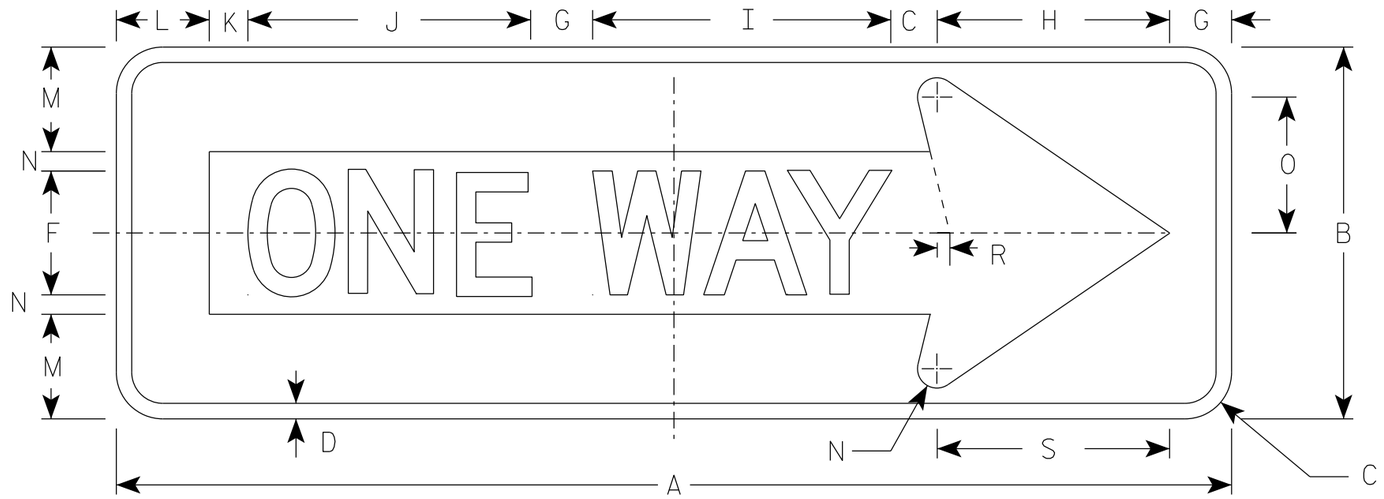
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/18 PLATE NO. R5-1.16

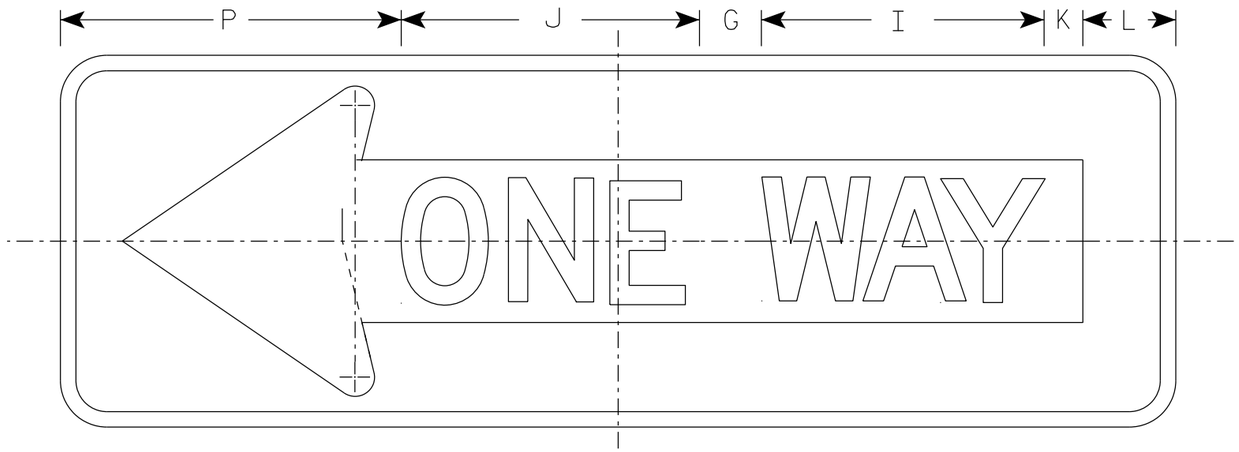
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 451 | E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - BLACK
   Message - BLACK LEGEND & WHITE ARROW & BORDER
3. Message Series - D



R6-1L

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	36	12	1 1/2	1/2		4	2	7 1/2	9 5/8	9 1/8	1 1/4	3	3 3/8	5/8	4 3/8	11		3/8	7 1/2								3.0
2M	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
3	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
4	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
5																											

STANDARD SIGN
R6-1 L & R

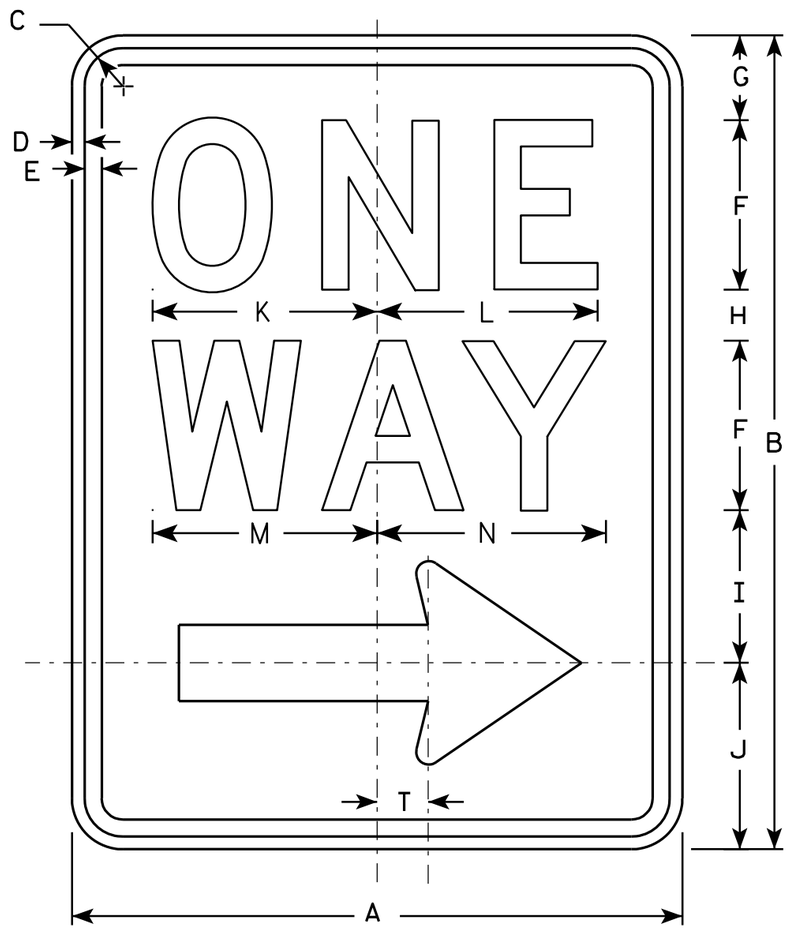
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 07/11/18 PLATE NO. R6-1.3

PROJECT NO:

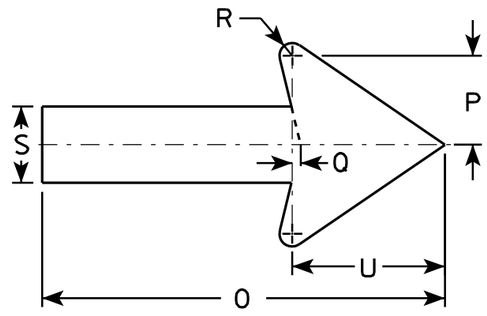
SHEET NO: 452 E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

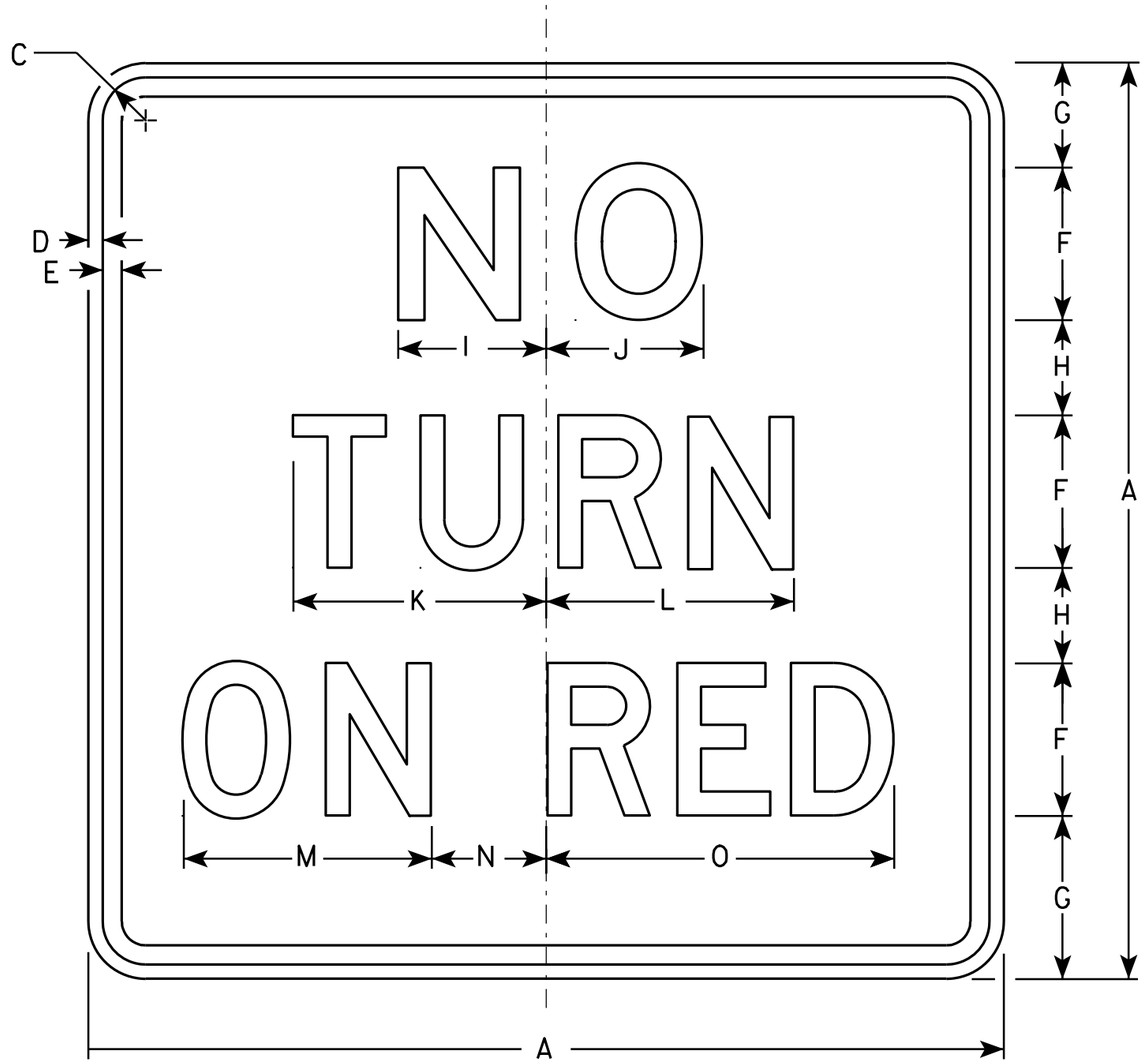
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 453	E



R10-11B

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - See Note 5.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series E.
   Lines 2 and 3 are Series D.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18		1 1/8	3/8	3/8	3	2 3/4	1 3/4	3	3 1/8	5	4 7/8	5 1/4	1 7/8	7 1/8												2.25
2S	24		1 1/8	3/8	1/2	4	3 1/2	2 1/2	3 7/8	4 1/8	6 5/8	6 1/2	6 1/2	3	9 1/8												4.0
2M	24		1 1/8	3/8	1/2	4	3 1/2	2 1/2	3 7/8	4 1/8	6 5/8	6 1/2	6 1/2	3	9 1/8												4.0
3	30		1 3/8	1/2	5/8	5	4 1/2	3	4 7/8	5 1/4	8 1/4	8 1/8	7 3/4	4 1/8	11 7/8												6.25
4																											
5																											

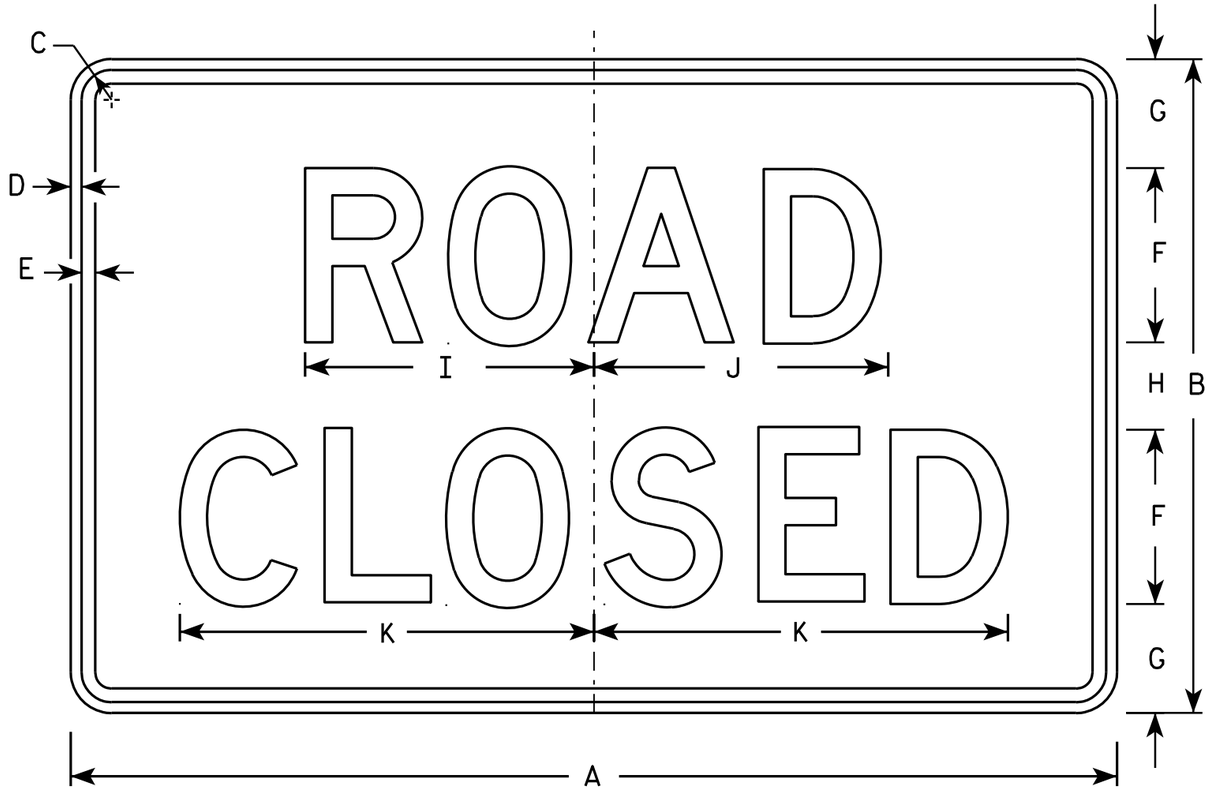
STANDARD SIGN
R10-11B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/5/11 PLATE NO. R10-11B.4

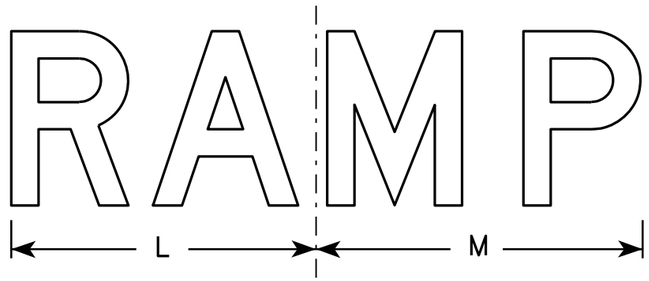
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 454 | E



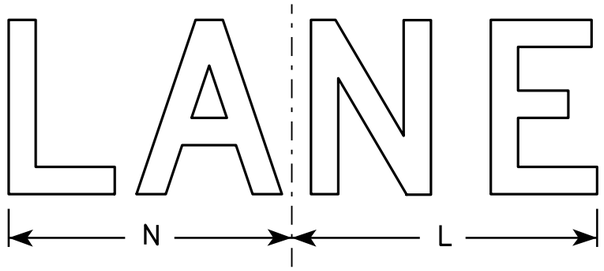
R11-2

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

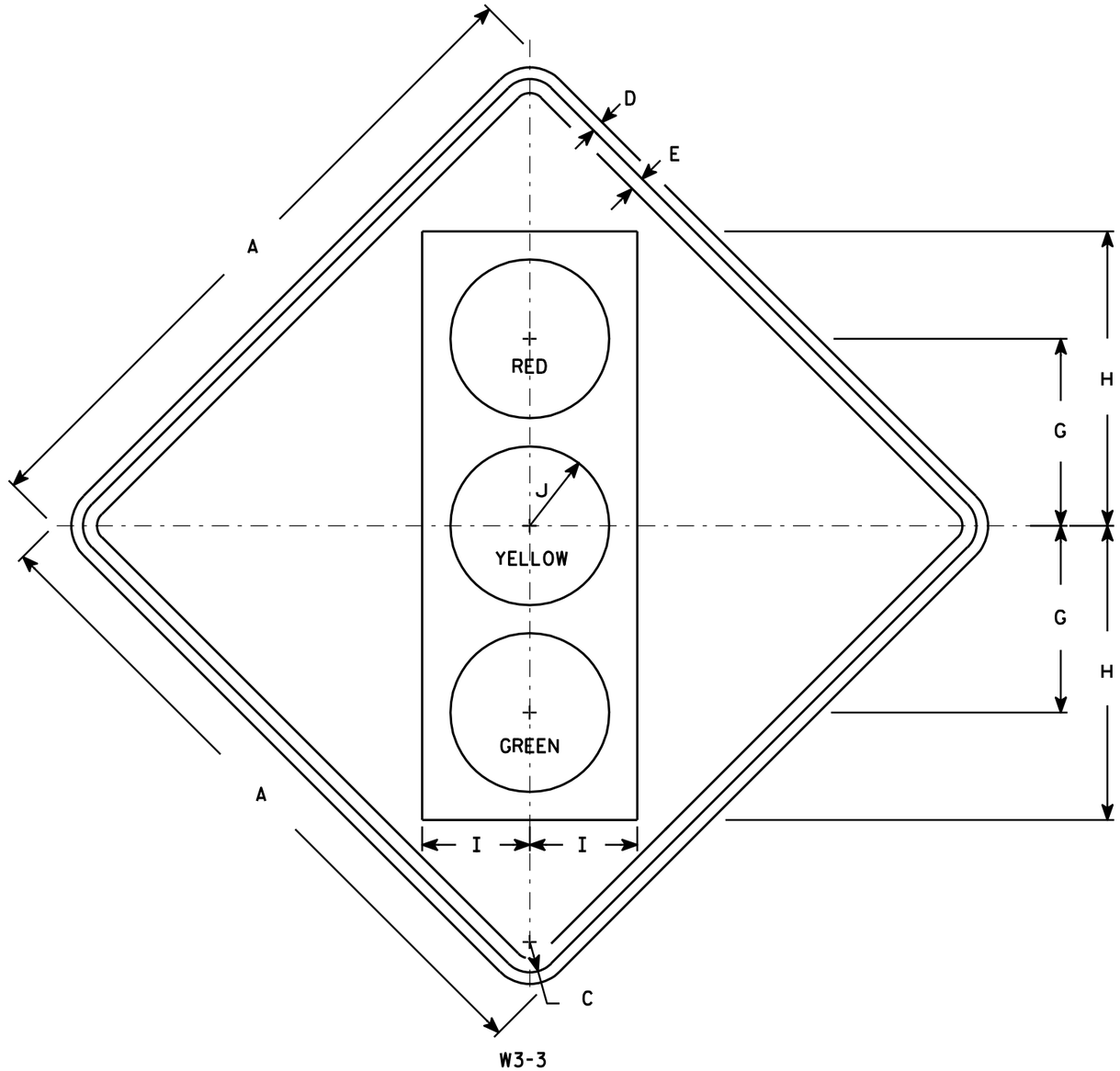
STANDARD SIGN
R11-2

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: 455	E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

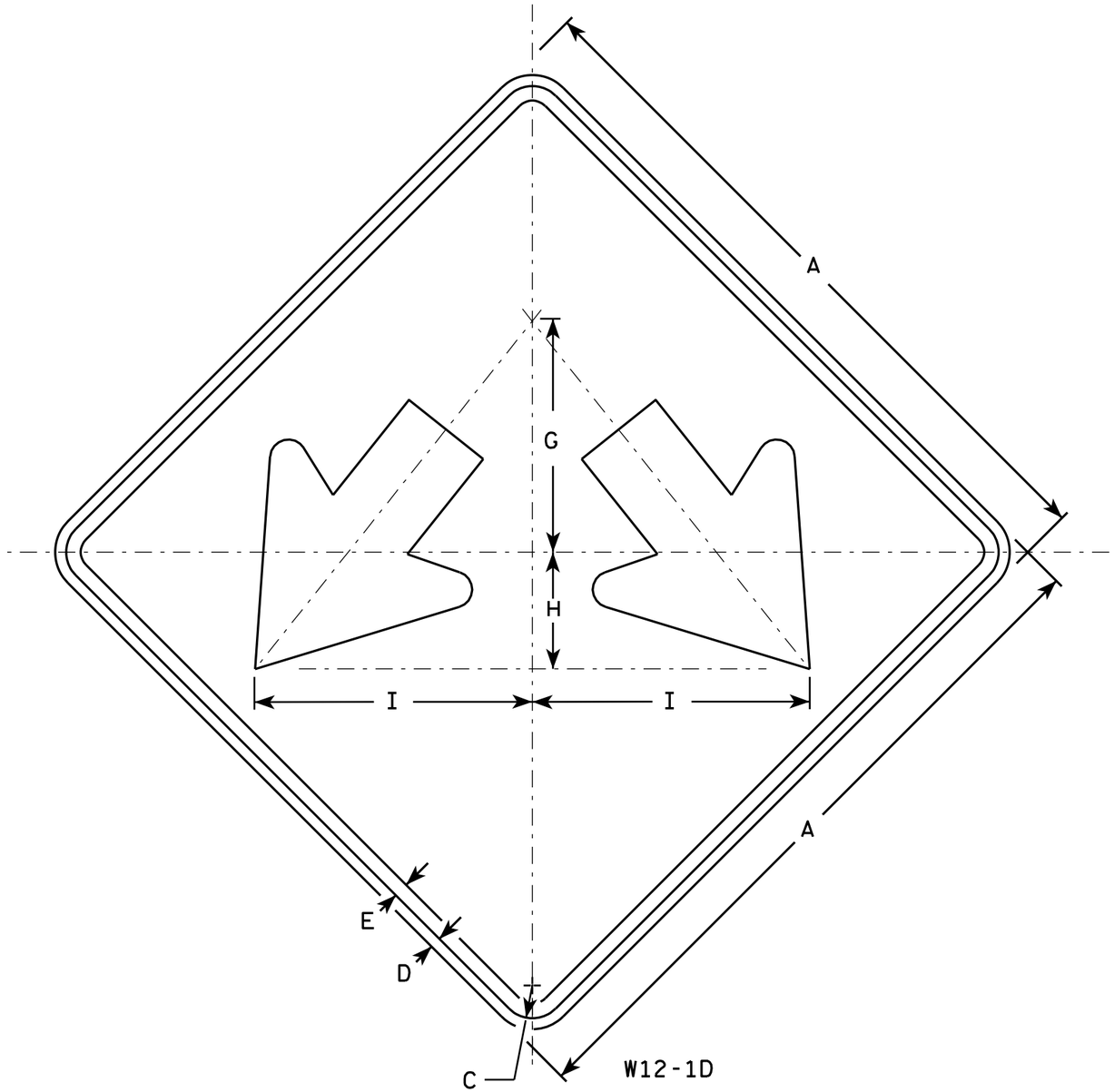
STANDARD SIGN
W3-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

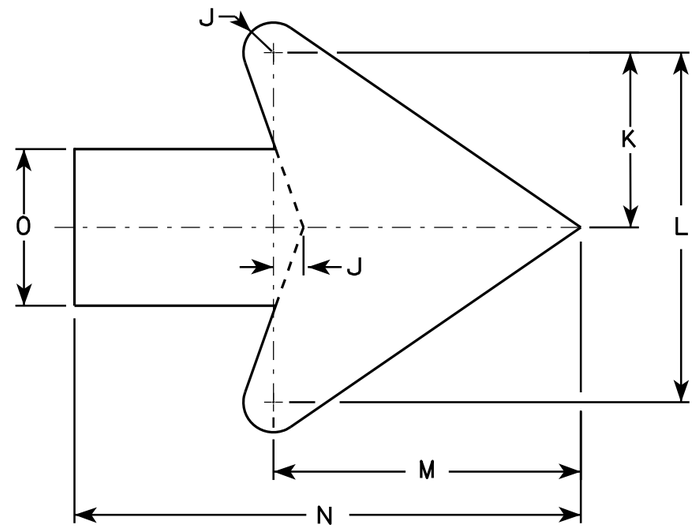
DATE 6/7/10 PLATE NO. W3-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 456 | E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

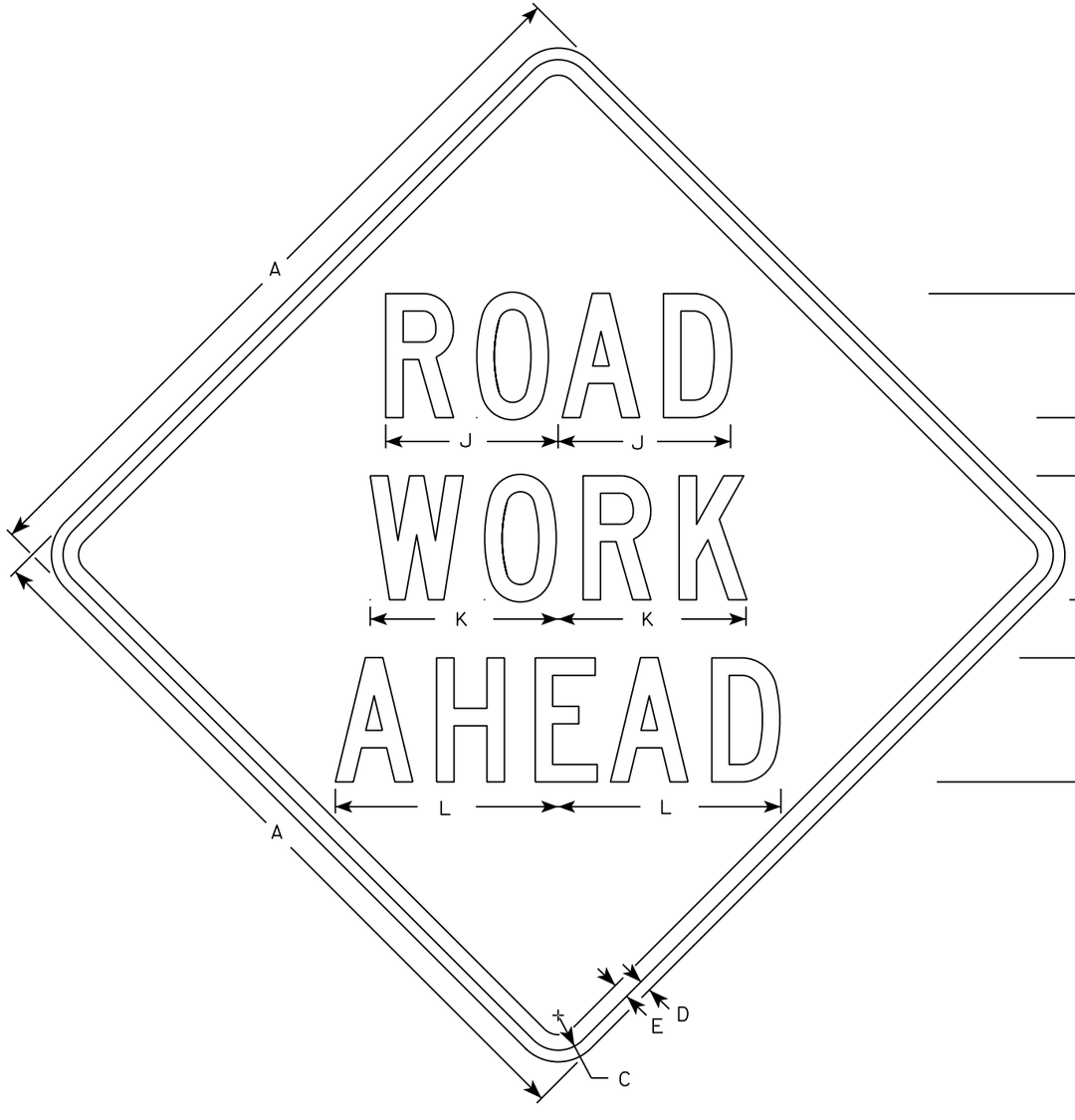
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 457	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W121D.DGN PLOT DATE : 13-MAR-2013 13:26 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 4.713802:1.000000

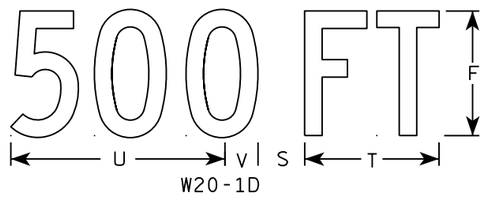
WISDOT/CADDS SHEET 42

7

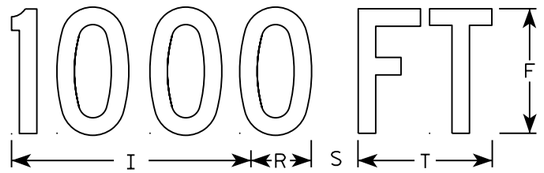
7



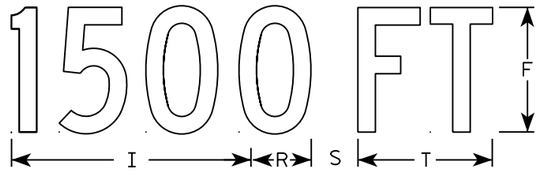
W20-1A



W20-1D



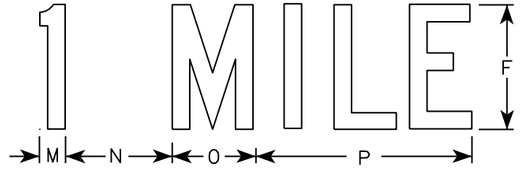
W20-1C



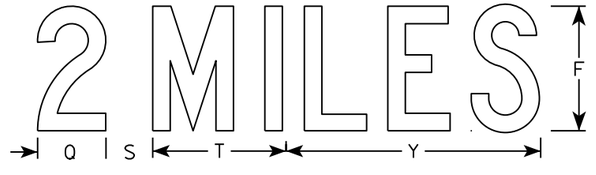
W20-1B



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 : $$ plotuser $$

PROJECT 2704-00-76

WISCONN VALLEY WAY - SOUTH

STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut	Fill	
501+54	50154.48	0.00	15	302	0	0	0	0	0
502+00	50200.00	45.52	12	210	23	432	23	432	-409
502+50	50250.00	50.00	113	126	116	311	139	743	-604
503+00	50300.00	50.00	93	153	191	259	330	1002	-671
503+50	50350.00	50.00	36	246	119	370	450	1371	-922
504+00	50400.00	50.00	13	325	45	529	495	1900	-1406
504+50	50450.00	50.00	12	349	23	623	517	2524	-2006
505+00	50500.00	50.00	0	413	11	705	528	3229	-2700
505+50	50550.00	50.00	0	503	0	848	528	4076	-3548
506+00	50600.00	50.00	0	434	0	868	528	4945	-4416
506+50	50650.00	50.00	23	382	21	756	549	5700	-5151
507+00	50700.00	50.00	7	327	28	656	577	6356	-5779
507+50	50750.00	50.00	15	322	20	601	597	6957	-6360
508+00	50800.00	50.00	37	258	48	537	645	7494	-6849
508+50	50850.00	50.00	51	242	81	463	726	7957	-7231
509+00	50900.00	50.00	48	237	92	443	818	8400	-7582
509+50	50950.00	50.00	34	245	76	446	894	8846	-7952
510+00	51000.00	50.00	2	324	33	528	927	9373	-8447
510+50	51050.00	50.00	7	321	8	598	935	9971	-9036
511+00	51100.00	50.00	22	344	26	616	961	10587	-9626
511+50	51150.00	50.00	6	402	25	691	986	11278	-10292
512+00	51200.00	50.00	0	522	5	855	992	12133	-11142
512+50	51250.00	50.00	0	554	0	996	992	13129	-12138
513+00	51300.00	50.00	0	536	0	1009	992	14139	-13147
513+50	51350.00	50.00	0	493	0	952	992	15091	-14099
514+00	51400.00	50.00	0	529	0	946	992	16037	-15045
514+50	51450.00	50.00	0	604	0	1050	992	17087	-16095
515+00	51500.00	50.00	0	673	0	1182	992	18269	-17277
515+50	51550.00	50.00	0	684	0	1256	992	19525	-18533
516+00	51600.00	50.00	0	609	0	1197	992	20722	-19730
516+50	51650.00	50.00	0	489	0	1017	992	21739	-20747
517+00	51700.00	50.00	11	336	10	764	1002	22502	-21500
517+50	51750.00	50.00	32	261	40	553	1042	23055	-22014
518+00	51800.00	50.00	19	270	46	492	1088	23547	-22459
518+50	51850.00	50.00	24	266	39	496	1127	24043	-22916
519+00	51900.00	50.00	31	240	51	468	1179	24511	-23333
519+50	51950.00	50.00	50	234	75	439	1254	24950	-23696

PROJECT 2704-00-76

WISCONN VALLEY WAY - SOUTH (CONTINUED)

STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut	Fill	
520+00	52000.00	50.00	53	221	95	421	1349	25371	-24022
520+50	52050.00	50.00	41	233	87	420	1436	25791	-24356
521+00	52100.00	50.00	7	316	44	508	1480	26299	-24820
521+50	52150.00	50.00	0	484	6	741	1486	27040	-25554
522+00	52200.00	50.00	0	632	0	1033	1486	28073	-26587
522+50	52250.00	50.00	0	690	0	1224	1486	29297	-27811
523+00	52300.00	50.00	0	634	0	1226	1486	30523	-29037
523+50	52350.00	50.00	0	650	0	1189	1486	31712	-30226
524+00	52400.00	50.00	0	787	0	1331	1486	33043	-31557
524+50	52450.00	50.00	0	776	0	1447	1486	34490	-33004
525+00	52500.00	50.00	0	639	0	1310	1486	35800	-34314
525+50	52550.00	50.00	0	478	0	1035	1486	36835	-35348
526+00	52600.00	50.00	0	502	0	908	1486	37742	-36256
526+50	52650.00	50.00	0	641	0	1059	1486	38801	-37314
527+00	52700.00	50.00	0	682	0	1225	1486	40026	-38540
527+50	52750.00	50.00	0	574	0	1163	1486	41189	-39702
528+00	52800.00	50.00	3	496	3	990	1489	42179	-40690
528+50	52850.00	50.00	1	574	3	990	1492	43169	-41677
529+00	52900.00	50.00	0	772	0	1246	1493	44415	-42922
529+50	52950.00	50.00	0	970	0	1613	1493	46028	-44536
530+00	53000.00	50.00	0	1095	0	1912	1493	47940	-46447
530+50	53050.00	50.00	0	1091	0	2023	1493	49963	-48471
531+00	53100.00	50.00	0	1081	0	2010	1493	51974	-50481
531+50	53150.00	50.00	0	1046	0	1969	1493	53942	-52450
532+00	53200.00	50.00	0	1111	0	1996	1493	55939	-54446
532+50	53250.00	50.00	0	1157	0	2100	1493	58038	-56546
533+00	53300.00	50.00	0	1055	0	2049	1493	60087	-58595
533+50	53350.00	50.00	0	823	0	1739	1493	61826	-60334
534+00	53400.00	50.00	0	596	0	1314	1493	63140	-61648
534+50	53450.00	50.00	3	492	3	1007	1495	64147	-62652

PROJECT 2704-00-76

WISCONN VALLEY WAY - SOUTH (CONTINUED)

STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut	Fill	
535+00	53500.00	50.00	5	429	7	853	1502	65000	-63498
535+50	53550.00	50.00	0	628	4	979	1507	65979	-64473
536+00	53600.00	50.00	0	862	0	1380	1507	67359	-65853
536+50	53650.00	50.00	0	1118	0	1834	1507	69193	-67686
537+00	53700.00	50.00	0	1293	0	2233	1507	71425	-69919
537+50	53750.00	50.00	0	1133	0	2246	1507	73671	-72165
538+00	53800.00	50.00	0	1588	0	2519	1507	76190	-74683
538+50	53850.00	50.00	0	1070	0	2461	1507	78651	-77144
539+00	53900.00	50.00	0	1058	0	1971	1507	80622	-79115
539+50	53950.00	50.00	0	973	0	1881	1507	82502	-80996
540+00	54000.00	50.00	0	921	0	1754	1507	84256	-82749
540+50	54050.00	50.00	0	920	0	1704	1507	85960	-84454
541+00	54100.00	50.00	0	792	0	1584	1507	87545	-86038
541+50	54150.00	50.00	2	646	2	1331	1508	88876	-87367
542+00	54200.00	50.00	18	485	18	1047	1527	89923	-88396
542+50	54250.00	50.00	103	260	112	689	1638	90612	-88974
543+00	54300.00	50.00	181	172	263	400	1901	91011	-89111
543+50	54350.00	50.00	393	60	531	215	2432	91226	-88794
544+00	54400.00	50.00	587	7	907	63	3339	91289	-87949
544+50	54450.00	50.00	542	2	1045	9	4385	91298	-86913
545+00	54500.00	50.00	161	83	651	79	5036	91377	-86342
545+50	54550.00	50.00	11	333	159	386	5195	91763	-86568
546+00	54600.00	50.00	57	234	63	525	5258	92288	-87030
546+50	54650.00	50.00	202	70	240	281	5498	92569	-87071
547+00	54700.00	50.00	520	7	668	71	6167	92640	-86474
547+50	54750.00	50.00	712	0	1141	7	7308	92647	-85339
548+00	54800.00	50.00	848	0	1444	0	8752	92647	-83895
548+50	54850.00	50.00	1021	0	1730	0	10482	92647	-82165
549+00	54900.00	50.00	1214	0	2069	0	12552	92647	-80096
549+50	54950.00	50.00	1240	0	2272	0	14824	92647	-77823

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WIS 11\Plansheets\13202370\090101_EW.ppt PLOT DATE : 11/29/2018 1:28:55 PM PLOT BY : NICK BOBINSKI PLOT NAME : 090101_EW1 PLOT SCALE : 1:1

PROJECT 2704-00-76

WISCONN VALLEY WAY - SOUTH (CONTINUED)

STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut	Fill	
550+00	55000.00	50.00	1102	0	2169	0	16993	92647	-75654
550+50	55050.00	50.00	990	0	1937	0	18929	92647	-73718
551+00	55100.00	50.00	914	0	1763	0	20692	92647	-71955
551+50	55150.00	50.00	913	0	1692	0	22384	92647	-70263
552+00	55200.00	50.00	974	0	1748	0	24132	92647	-68516
552+50	55250.00	50.00	772	0	1617	0	25749	92647	-66899
553+00	55300.00	50.00	485	9	1164	8	26913	92655	-65742
553+50	55350.00	50.00	303	67	730	70	27643	92726	-65083
554+00	55400.00	50.00	132	177	403	225	28046	92951	-64906
554+50	55450.00	50.00	3	311	125	452	28171	93403	-65232
555+00	55500.00	50.00	0	491	3	743	28174	94146	-65972
555+50	55550.00	50.00	0	146	0	590	28174	94736	-66562
556+00	55600.00	50.00	0	161	0	285	28174	95021	-66847
556+04	55604.11	4.11	0	168	0	25	28174	95046	-66872
					28174	95046			-66872

PROJECT 2704-00-76

WISCONN VALLEY WAY - NORTH

STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut	Fill	
557+24	55724.12	0.00	37	95	0	0	0	0	0
557+50	55750.00	25.88	59	60	56	57	56	57	-1
558+00	55800.00	50.00	182	251	222	288	278	345	-67
558+50	55850.00	50.00	174	235	329	450	607	795	-188
559+00	55900.00	50.00	27	322	186	515	793	1310	-517
559+50	55950.00	50.00	3	354	28	626	821	1936	-1115
560+00	56000.00	50.00	20	346	21	648	842	2584	-1742
560+50	56050.00	50.00	53	296	67	594	909	3179	-2270
561+00	56100.00	50.00	11	367	59	614	968	3792	-2824
561+50	56150.00	50.00	0	494	11	797	979	4589	-3611
562+00	56200.00	50.00	0	701	0	1106	979	5695	-4717
562+50	56250.00	50.00	0	838	0	1425	979	7120	-6141
563+00	56300.00	50.00	0	829	0	1544	979	8664	-7685
563+50	56350.00	50.00	0	780	0	1490	979	10154	-9175
564+00	56400.00	50.00	0	594	0	1272	979	11426	-10447
564+50	56450.00	50.00	0	508	0	1020	979	12446	-11468
565+00	56500.00	50.00	0	470	0	905	979	13352	-12373
565+50	56550.00	50.00	0	381	0	788	979	14140	-13161
566+00	56600.00	50.00	5	292	5	623	983	14763	-13780
566+50	56650.00	50.00	51	181	52	438	1035	15201	-14166
567+00	56700.00	50.00	110	96	149	256	1184	15457	-14274
567+50	56750.00	50.00	123	83	216	166	1400	15624	-14224
568+00	56800.00	50.00	79	151	188	217	1587	15840	-14253
568+50	56850.00	50.00	35	194	105	319	1693	16160	-14467
569+00	56900.00	50.00	12	246	44	407	1736	16567	-14831
569+50	56950.00	50.00	6	272	17	480	1753	17047	-15294
570+00	57000.00	50.00	0	384	5	608	1758	17655	-15896
570+50	57050.00	50.00	0	350	0	680	1758	18334	-16576
571+00	57100.00	50.00	0	679	0	953	1758	19287	-17529
571+50	57150.00	50.00	13	620	12	1203	1770	20490	-18720
572+00	57200.00	50.00	66	174	73	735	1842	21225	-19383
572+50	57250.00	50.00	131	115	183	268	2025	21494	-19469
573+00	57300.00	50.00	206	24	313	129	2337	21622	-19285
573+50	57350.00	50.00	257	22	429	43	2767	21665	-18898
574+00	57400.00	50.00	279	59	497	75	3263	21740	-18477
574+50	57450.00	50.00	209	107	452	154	3715	21894	-18179

PROJECT 2704-00-76

WISCONN VALLEY WAY - NORTH (CONTINUED)

STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut	Fill	
575+00	57500.00	50.00	90	183	277	268	3992	22162	-18170
575+50	57550.00	50.00	33	271	114	421	4106	22583	-18477
576+00	57600.00	50.00	56	227	83	461	4189	23044	-18855
576+50	57650.00	50.00	102	163	146	361	4335	23405	-19069
577+00	57700.00	50.00	92	182	179	320	4515	23724	-19209
577+50	57750.00	50.00	39	281	122	429	4636	24153	-19517
578+00	57800.00	50.00	0	494	36	717	4673	24870	-20198
578+50	57850.00	50.00	0	700	0	1105	4673	25975	-21303
579+00	57900.00	50.00	0	667	0	1265	4673	27241	-22568
579+50	57950.00	50.00	0	585	0	1159	4673	28400	-23728
580+00	58000.00	50.00	2	391	2	904	4675	29304	-24629
580+50	58050.00	50.00	49	234	48	579	4723	29883	-25160
581+00	58100.00	50.00	101	179	139	383	4862	30265	-25403
581+50	58150.00	50.00	98	166	185	320	5046	30585	-25539
582+00	58200.00	50.00	87	166	171	308	5218	30893	-25675
582+50	58250.00	50.00	89	162	163	304	5381	31196	-25815
583+00	58300.00	50.00	100	143	175	283	5556	31479	-25923
583+50	58350.00	50.00	110	135	195	258	5751	31737	-25986
584+00	58400.00	50.00	128	113	221	230	5972	31967	-25995
584+50	58450.00	50.00	164	70	270	170	6242	32137	-25894
585+00	58500.00	50.00	198	41	335	103	6578	32239	-25662
585+50	58550.00	50.00	200	35	369	70	6946	32310	-25363
586+00	58600.00	50.00	209	32	378	62	7325	32372	-25047
586+50	58650.00	50.00	191	47	370	73	7695	32445	-24751
587+00	58700.00	50.00	191	52	354	91	8048	32537	-24488
587+50	58750.00	50.00	185	45	348	89	8397	32626	-24229
588+00	58800.00	50.00	174	66	333	102	8729	32728	-23999
588+50	58850.00	50.00	161	83	310	137	9040	32865	-23826
589+00	58900.00	50.00	160	86	297	156	9337	33022	-23685
589+50	58950.00	50.00	119	124	258	195	9595	33216	-23622

PROJECT 2704-00-76

WISCONN VALLEY WAY - NORTH (CONTINUED)

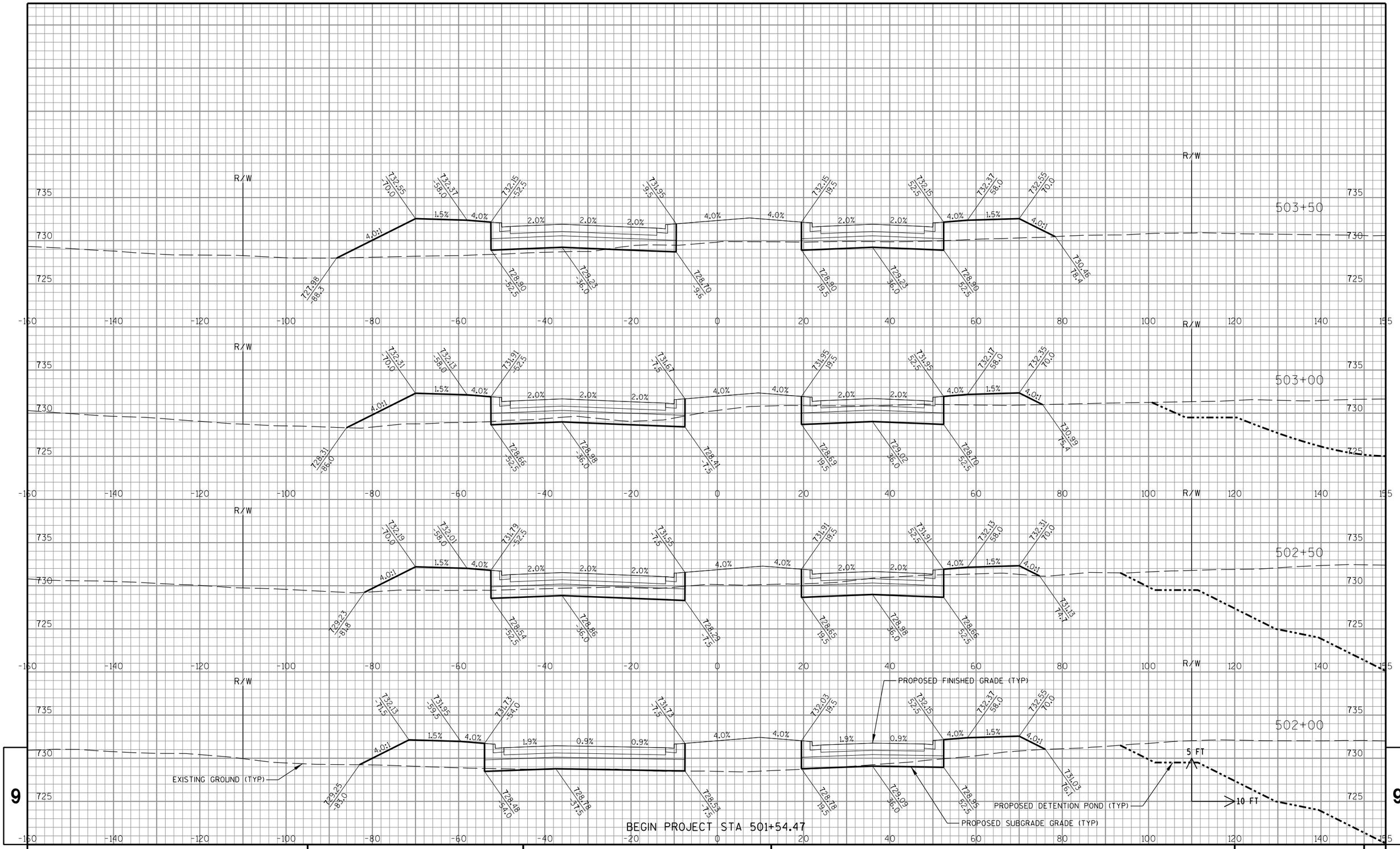
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Cut	Fill	
590+00	59000.00	50.00	85	169	189	271	9783	33488	-23704
590+50	59050.00	50.00	84	169	156	313	9939	33801	-23862
591+00	59100.00	50.00	94	160	164	304	10103	34105	-24002
591+50	59150.00	50.00	73	196	154	329	10258	34435	-24177
592+00	59200.00	50.00	8	289	75	449	10332	34884	-24552
592+50	59250.00	50.00	20	314	26	558	10358	35442	-25084
593+00	59300.00	50.00	55	264	69	536	10428	35978	-25550
593+50	59350.00	50.00	57	266	104	491	10531	36469	-25938
594+00	59400.00	50.00	71	275	119	501	10650	36971	-26321
594+50	59450.00	50.00	83	253	143	489	10793	37460	-26667
595+00	59500.00	50.00	126	172	194	394	10987	37854	-26867
595+50	59550.00	50.00	195	100	297	252	11283	38105	-26822
596+00	59600.00	50.00	228	56	391	144	11674	38249	-26575
596+50	59650.00	50.00	225	41	419	89	12093	38338	-26245
597+00	59700.00	50.00	168	71	364	103	12457	38442	-25985
597+50	59750.00	50.00	96	166	244	219	12701	38661	-25960
598+00	59800.00	50.00	65	207	148	345	12849	39006	-26157
598+50	59850.00	50.00	49	232	105	406	12955	39412	-26457
599+00	59900.00	50.00	42	237	84	434	13039	39846	-26807
599+50	59950.00	50.00	65	194	98	400	13137	40246	-27108
600+00	60000.00	50.00	144	111	193	283	13330	40528	-27198
600+50	60050.00	50.00	250	53	365	152	13695	40680	-26985
601+00	60100.00	50.00	262	67	475	111	14169	40791	-26622
601+50	60150.00	50.00	193	103	421	157	14590	40948	-26358
602+00	60200.00	50.00	89	156	261	239	14851	41188	-26337
602+50	60250.00	50.00	46	203	125	332	14976	41519	-26544
603+00	60300.00	50.00	15	244	57	413	15032	41933	-26900
603+50	60350.00	50.00	5	245	19	453	15051	42385	-27335
604+00	60400.00	50.00	60	190	61	403	15111	42788	-27677
604+50	60450.00	50.00	70	186	121	348	15232	43136	-27904
605+00	60500.00	50.00	86	198	144	356	15376	43491	-28115
605+29	60529.12	29.12	49	250	72	242	15449	43733	-28284
					15449	43733			-28284

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	EARTHWORK DATA: WISCONN VALLEY WAY	SHEET: 465	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WIS 11\Plansheets\13202370\090101_EW.ppt PLOT DATE : 11/29/2018 1:28:55 PM PLOT BY : NICK BOBINSKI PLOT NAME : 090101_EW1 PLOT SCALE : 1:1

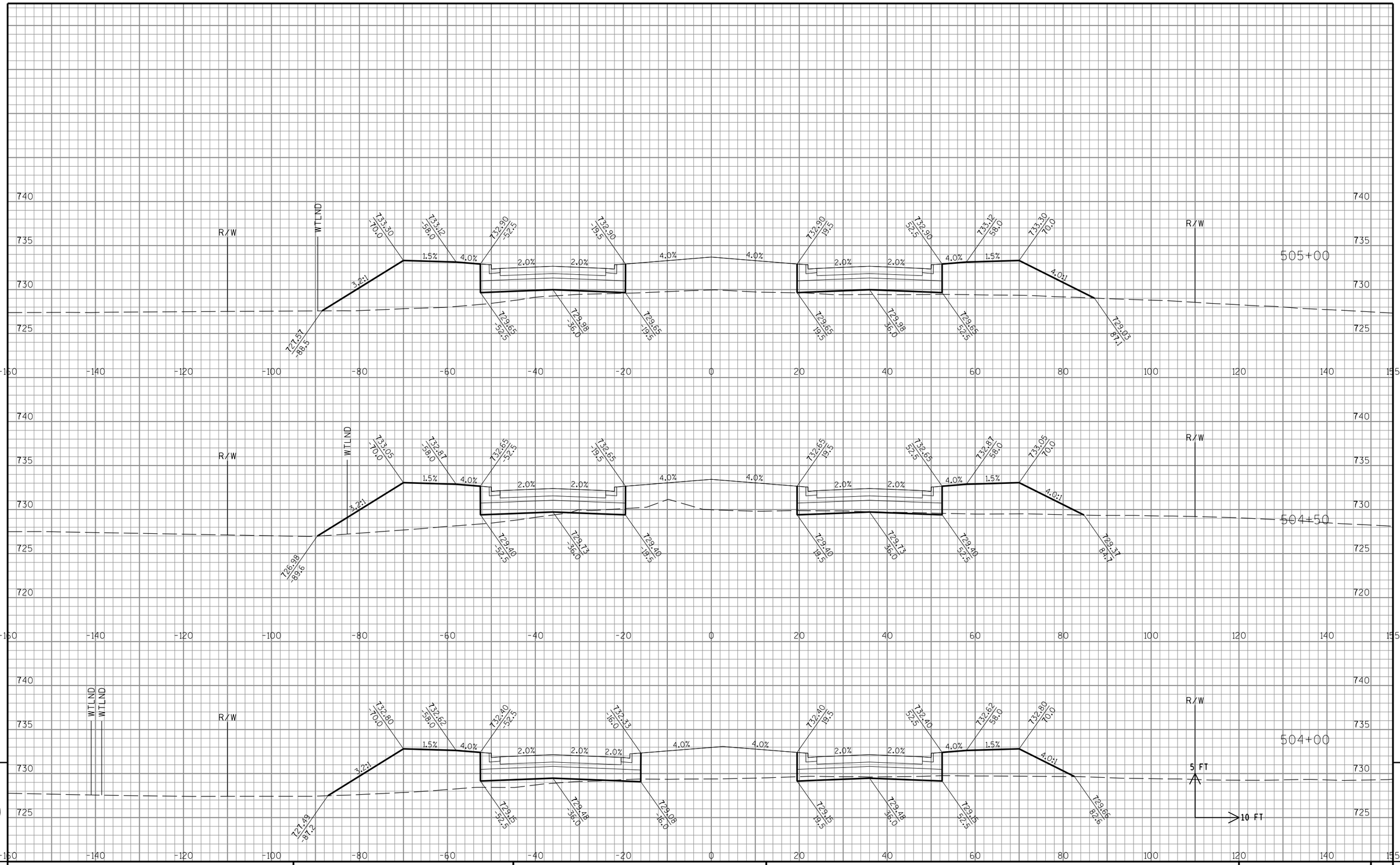
PROJECT 2704-00-76
BRAUN ROAD

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Mass Ordinate
54+36 AH	5436.41	0.00	335	63	0	0	0	0	0
A 54+50	5450.00	13.59	337	65	169	32	169	32	137
A 55+00	5500.00	50.00	389	60	672	115	841	147	694
A 55+50	5550.00	50.00	402	36	733	89	1574	236	1337
A 56+00	5600.00	50.00	450	32	789	63	2363	300	2064
A 56+50	5650.00	50.00	521	25	898	53	3262	353	2909
A 57+00	5700.00	50.00	541	8	983	31	4244	383	3861
A 57+50	5750.00	50.00	494	11	958	17	5202	400	4802
A 58+00	5800.00	50.00	428	6	853	16	6056	416	5640
A 58+50	5850.00	50.00	321	27	693	31	6749	447	6302
A 59+00	5900.00	50.00	214	60	496	81	7245	528	6717
A 59+50	5950.00	50.00	164	99	350	147	7595	675	6919
A 60+00	6000.00	50.00	157	110	297	193	7891	869	7023
A 60+50	6050.00	50.00	120	145	256	236	8147	1104	7043
A 61+00	6100.00	50.00	116	160	219	283	8366	1387	6979
A 61+50	6150.00	50.00	92	168	193	304	8559	1692	6867
A 62+00	6200.00	50.00	106	167	183	310	8742	2002	6740
A 62+50	6250.00	50.00	142	116	229	262	8971	2264	6708
A 63+00	6300.00	50.00	249	77	361	178	9333	2442	6891
A 63+50	6350.00	50.00	253	56	464	123	9797	2565	7232
A 64+00	6400.00	50.00	190	91	410	136	10208	2701	7507
A 64+50	6450.00	50.00	93	145	262	219	10470	2920	7550
A 65+00	6500.00	50.00	66	172	147	294	10617	3213	7403
A 65+50	6550.00	50.00	59	141	116	290	10732	3503	7229
A 66+00	6600.00	50.00	16	220	70	335	10802	3838	6964
A 66+50	6650.00	50.00	4	484	18	653	10821	4491	6330
A 67+00	6700.00	50.00	0	613	4	1016	10824	5507	5317
A 67+50	6750.00	50.00	0	624	0	1145	10824	6652	4173
A 68+00	6800.00	50.00	0	610	0	1142	10824	7794	3030
A 68+50	6850.00	50.00	0	315	0	856	10824	8650	2175
A 69+00	6900.00	50.00	0	208	0	484	10824	9133	1691
A 69+50	6950.00	50.00	5	69	4	256	10828	9389	1439
A 70+00	7000.00	50.00	68	31	68	92	10896	9482	1414
A 70+50	7050.00	50.00	153	22	205	49	11101	9531	1570
A 71+00	7100.00	50.00	244	208	367	213	11468	9744	1724
A 71+50	7150.00	50.00	203	205	414	382	11882	10126	1756
A 71+75 BK	7175.00	25.00	204	201	189	188	12070	10314	1757
					12,070	10,314			



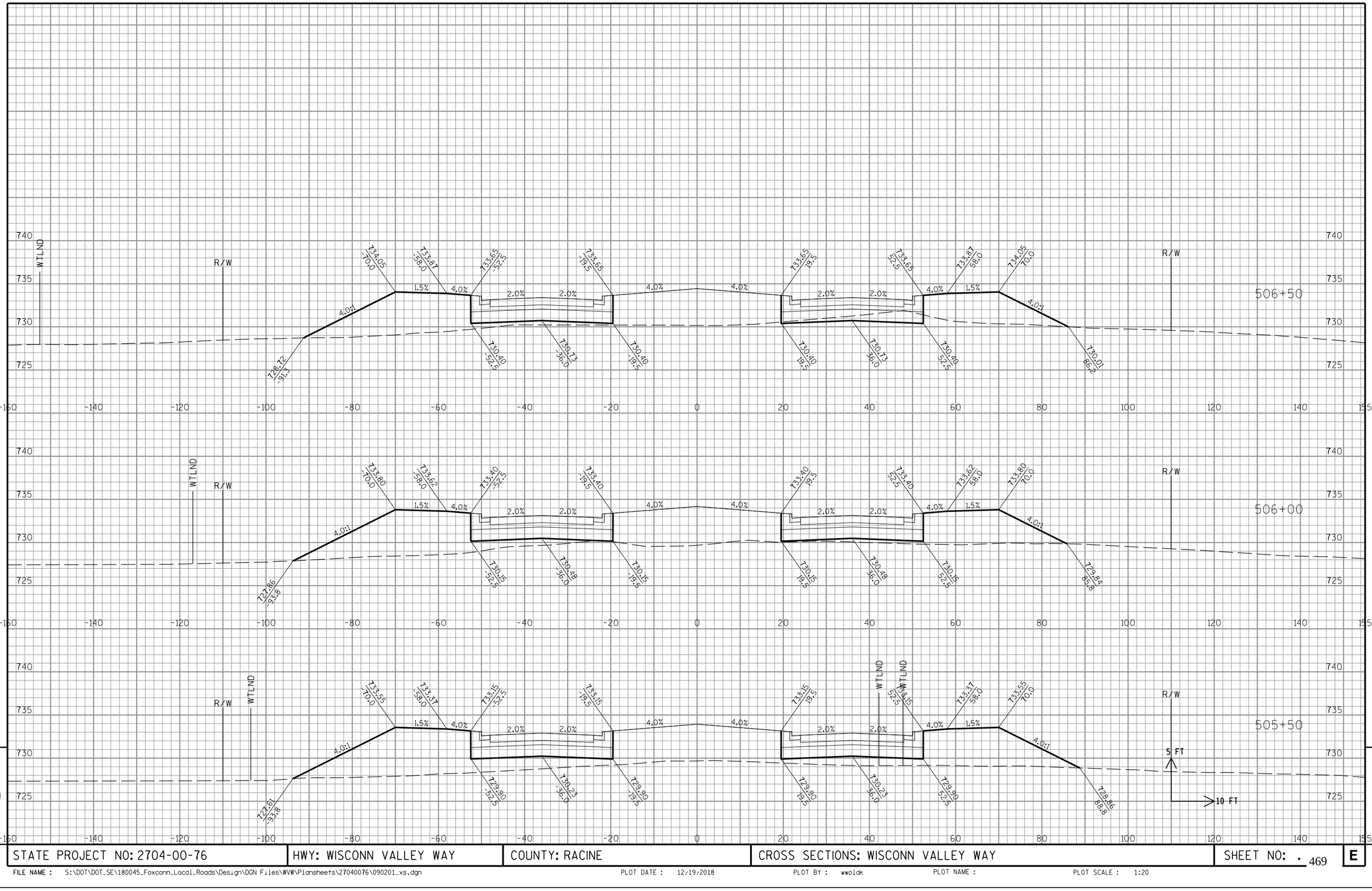
STATE PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: WISCONN VALLEY WAY	SHEET NO: . 467	E

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STATE PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: WISCONN VALLEY WAY	SHEET NO: . 468	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\090201_xs.dgn PLOT DATE : 12/19/2018 PLOT BY : wwolck PLOT NAME : PLOT SCALE : 1:20

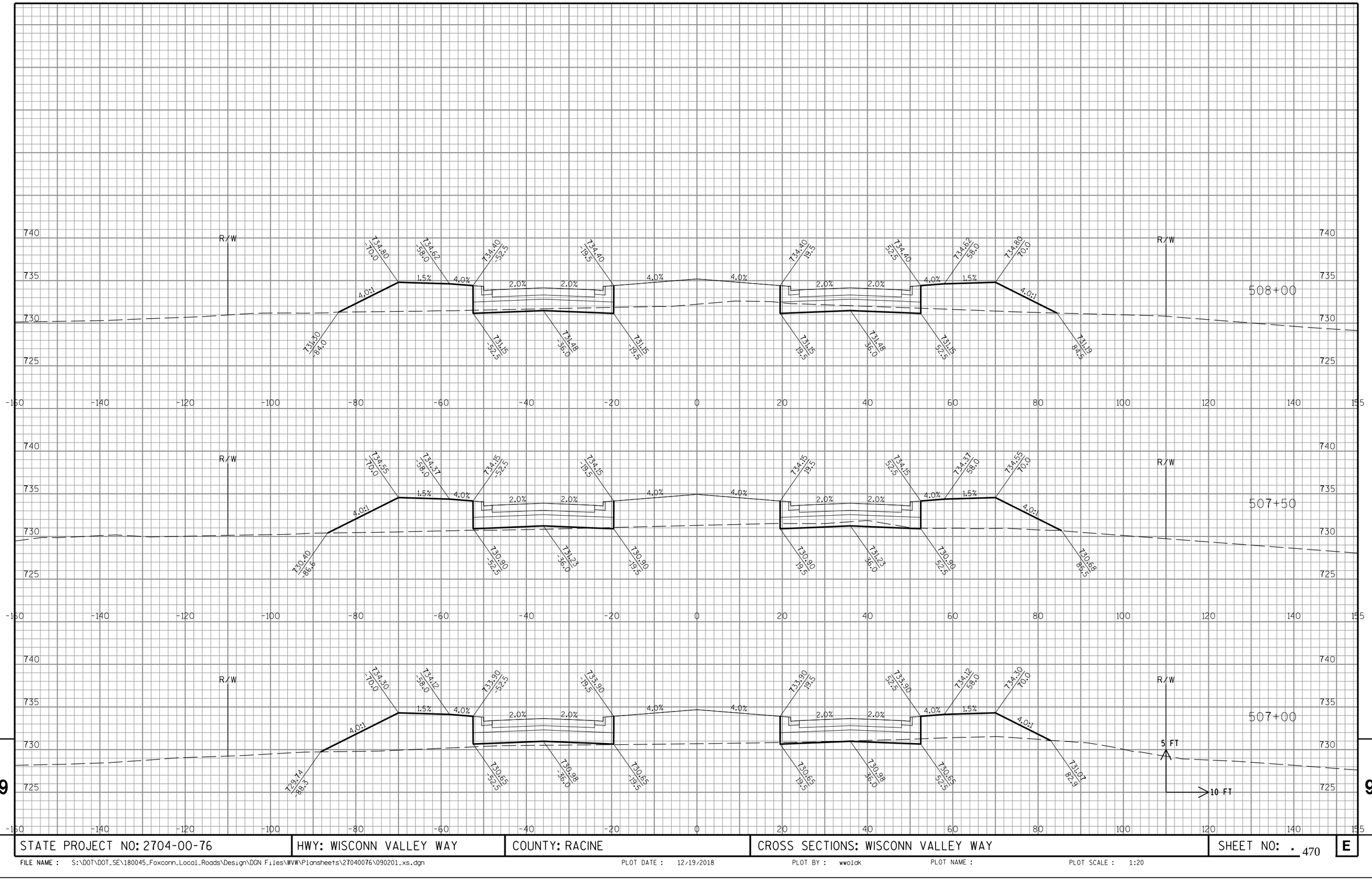


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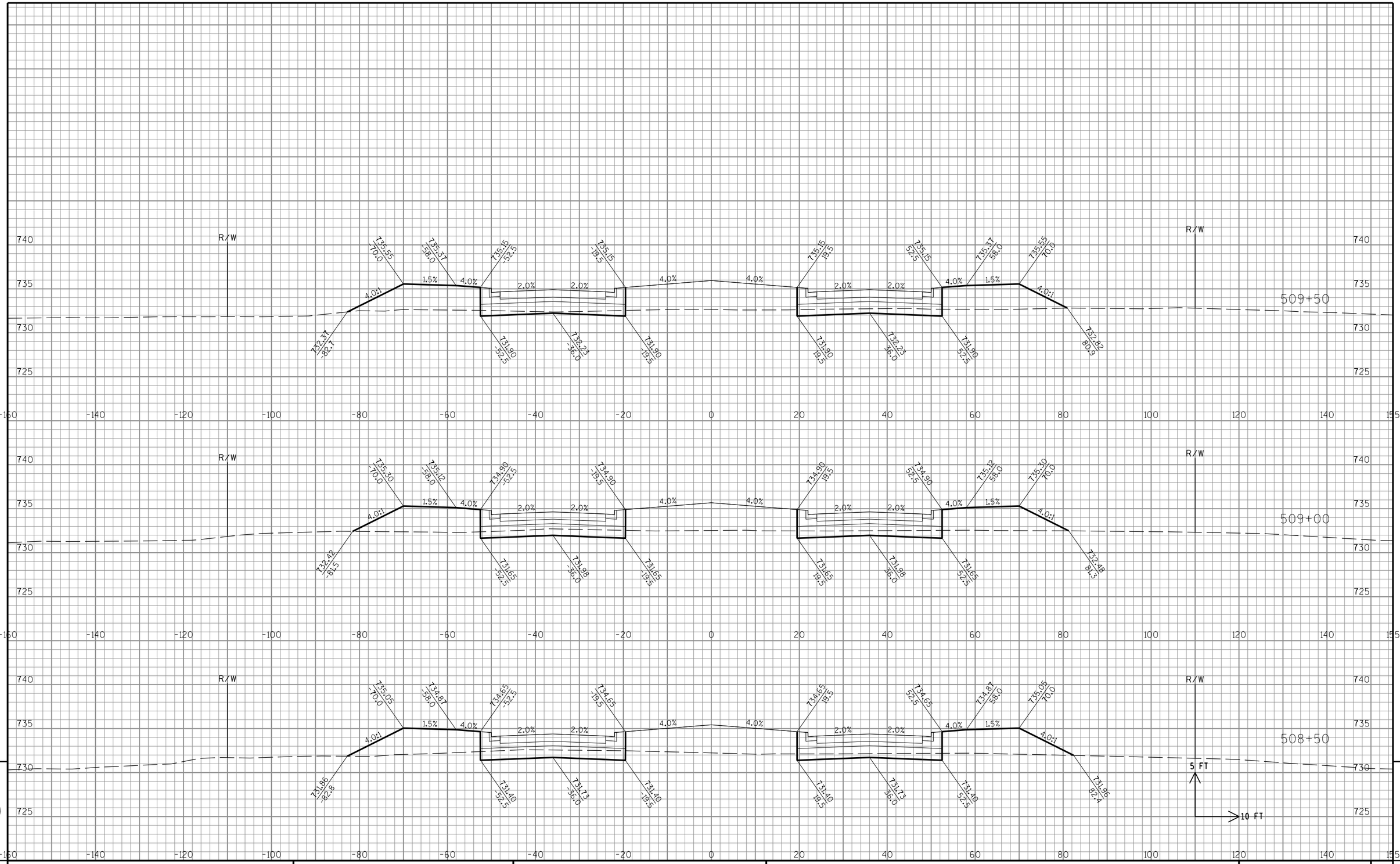
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FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\090201_xs.dgn PLOT DATE : 12/19/2018 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:20



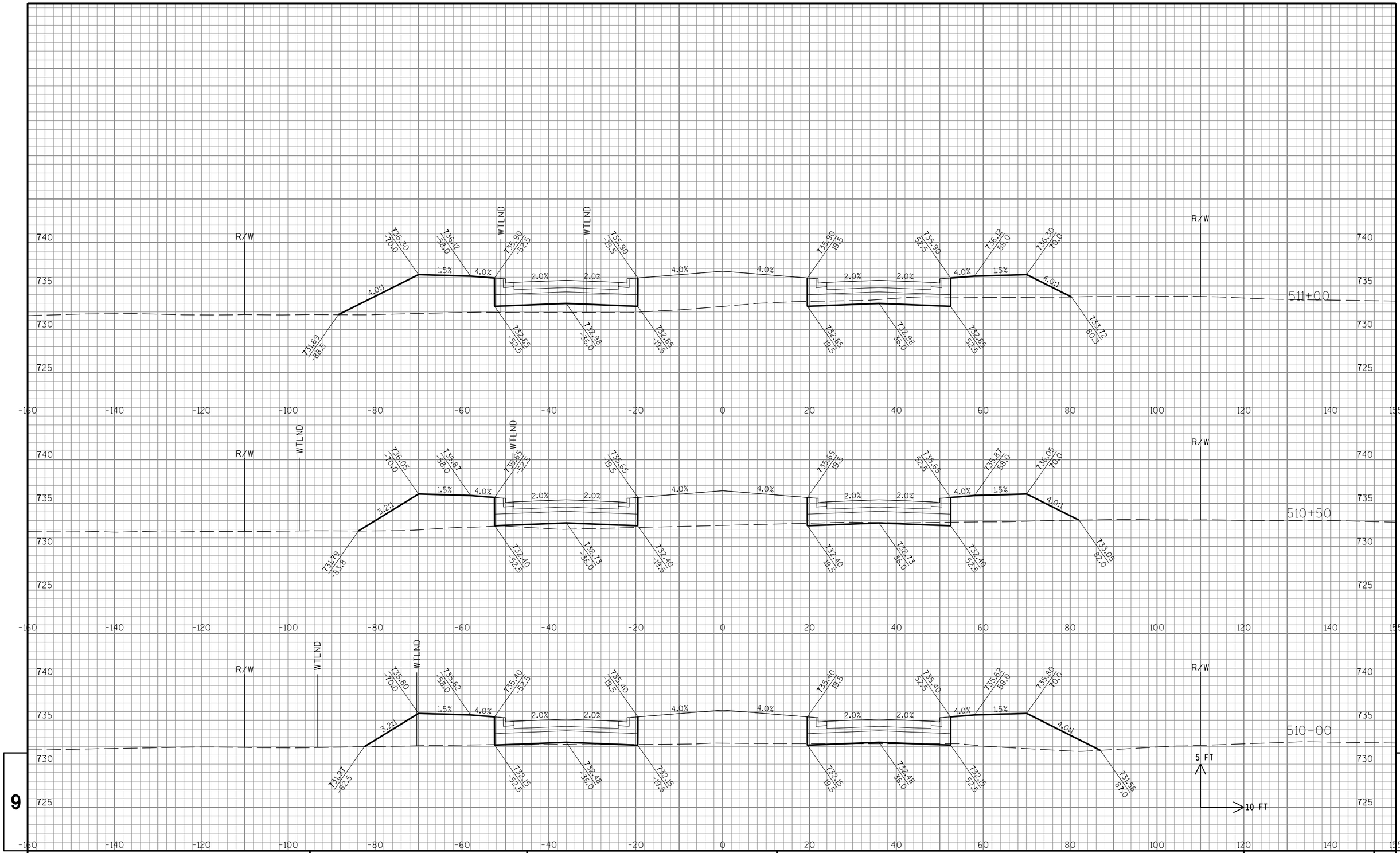
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STATE PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: WISCONN VALLEY WAY	SHEET NO: . 471	E

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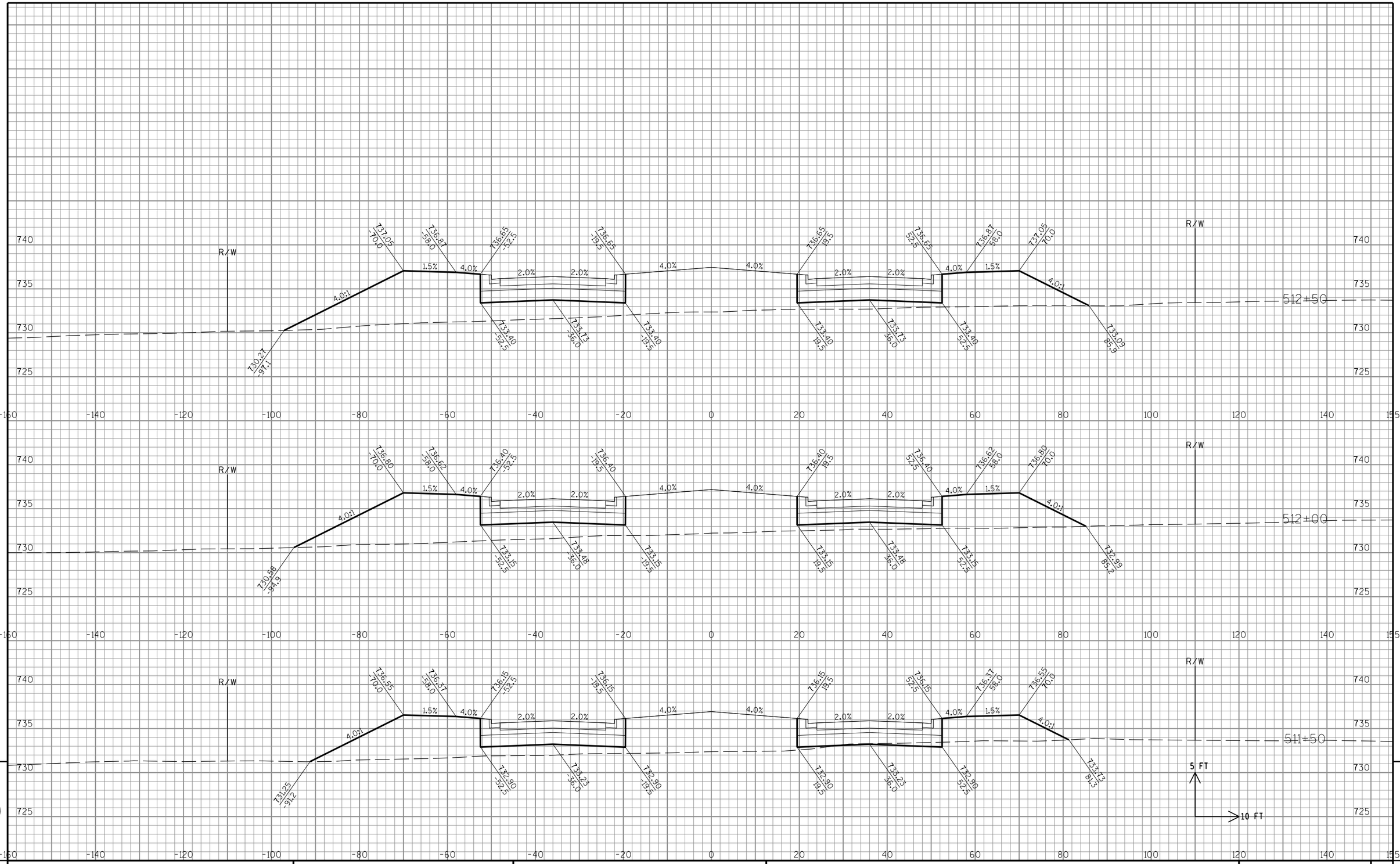


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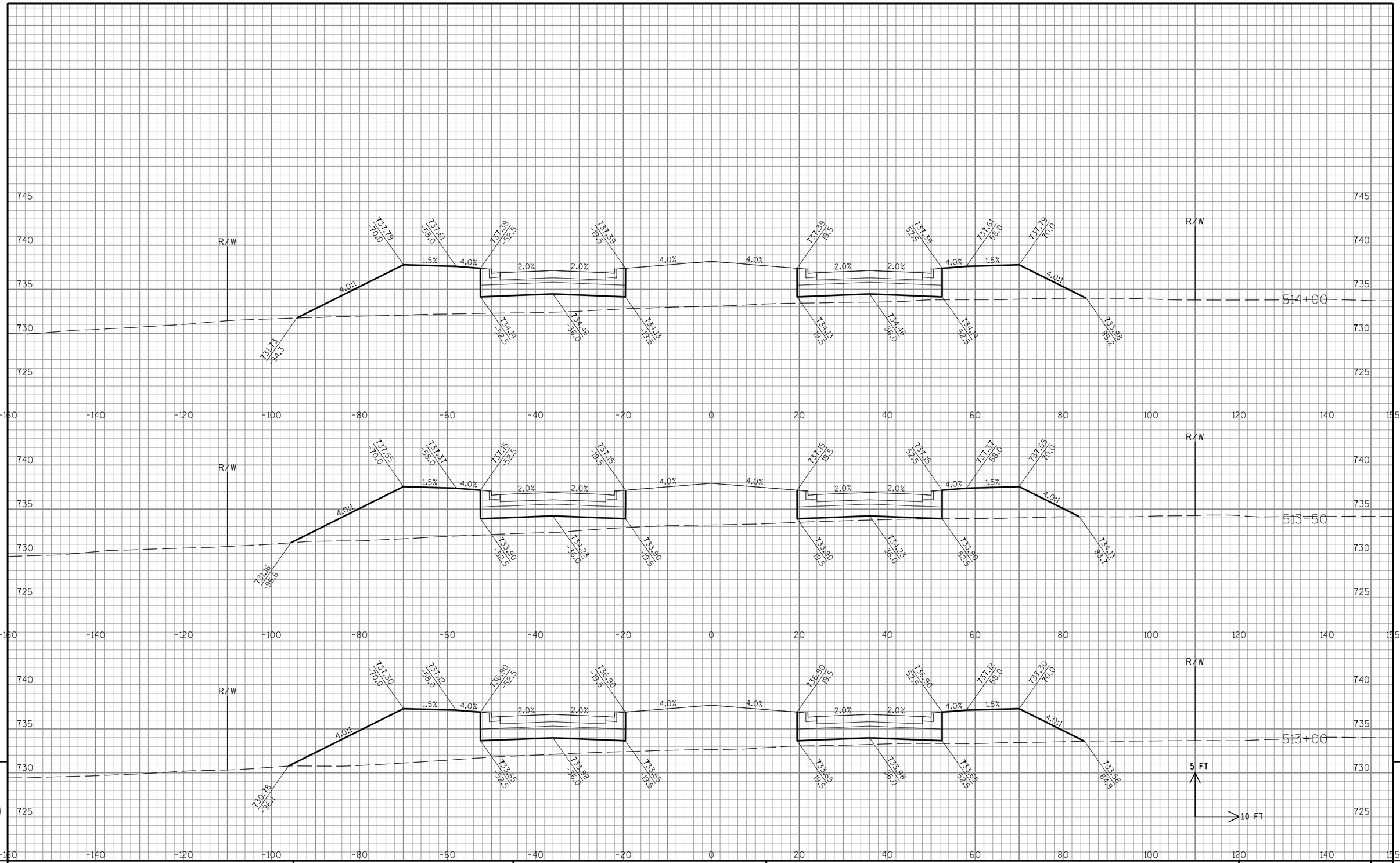
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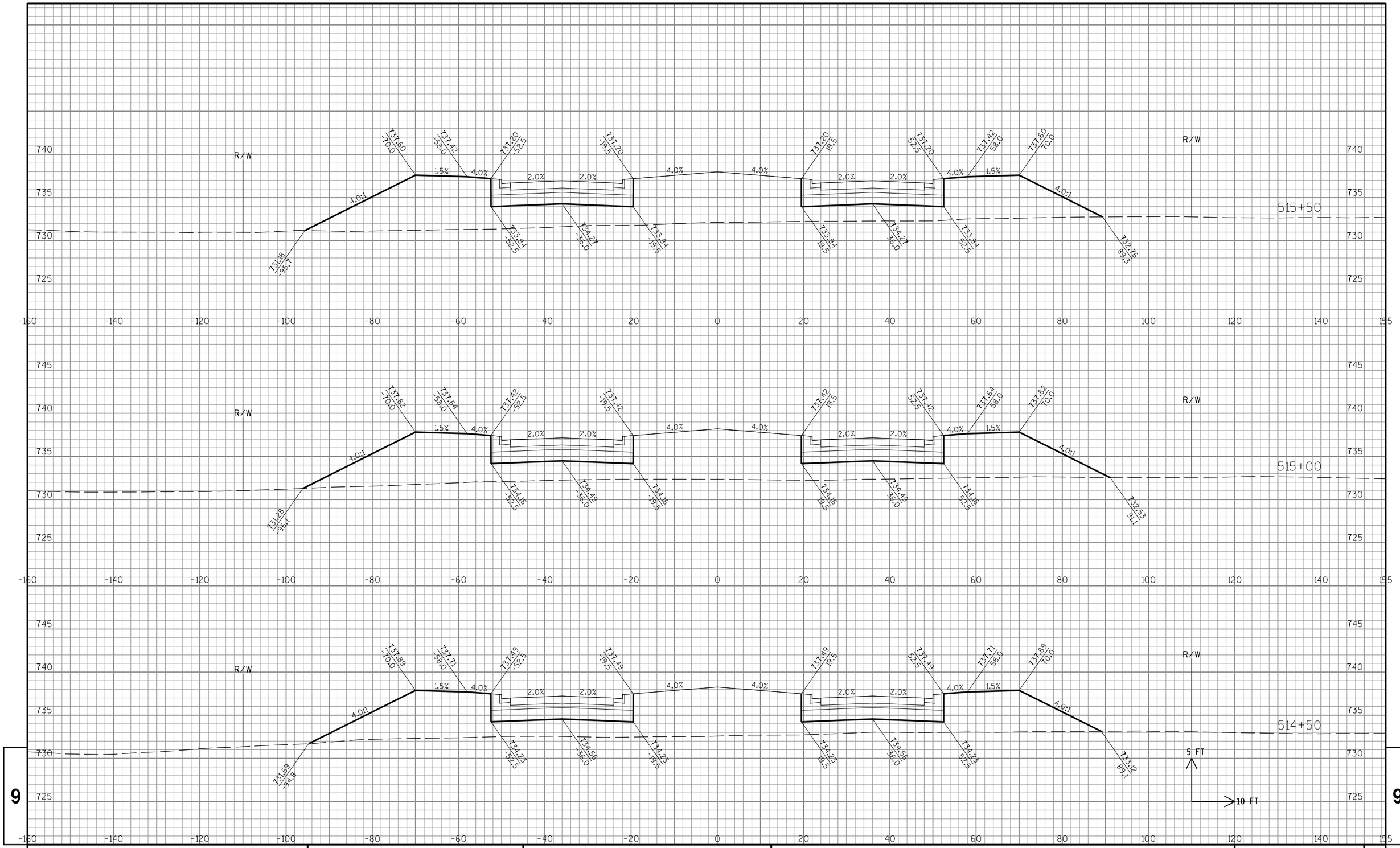
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STATE PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: WISCONN VALLEY WAY	SHEET NO: . 474	E

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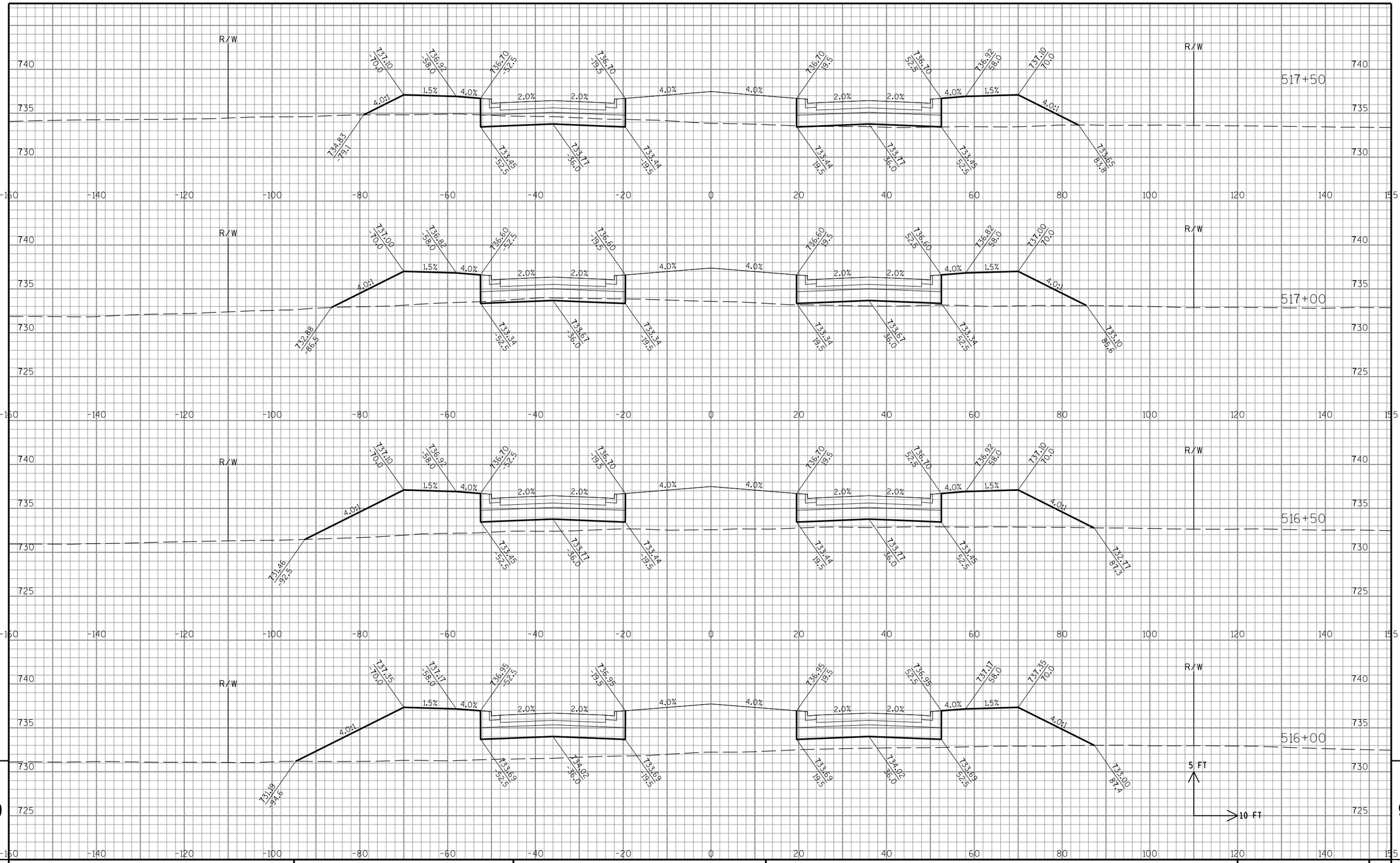


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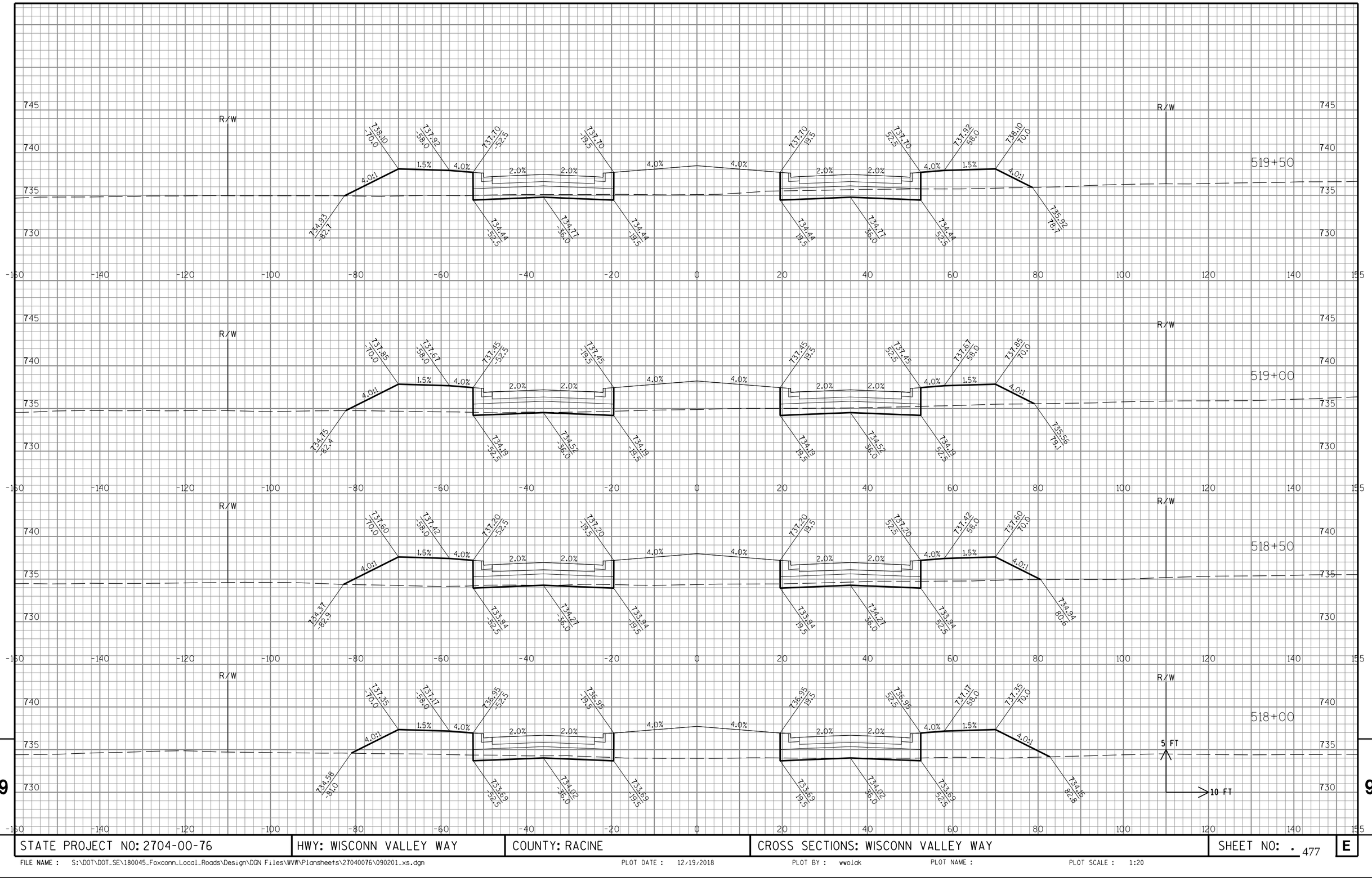
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STATE PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: WISCONN VALLEY WAY	SHEET NO: . 476	E

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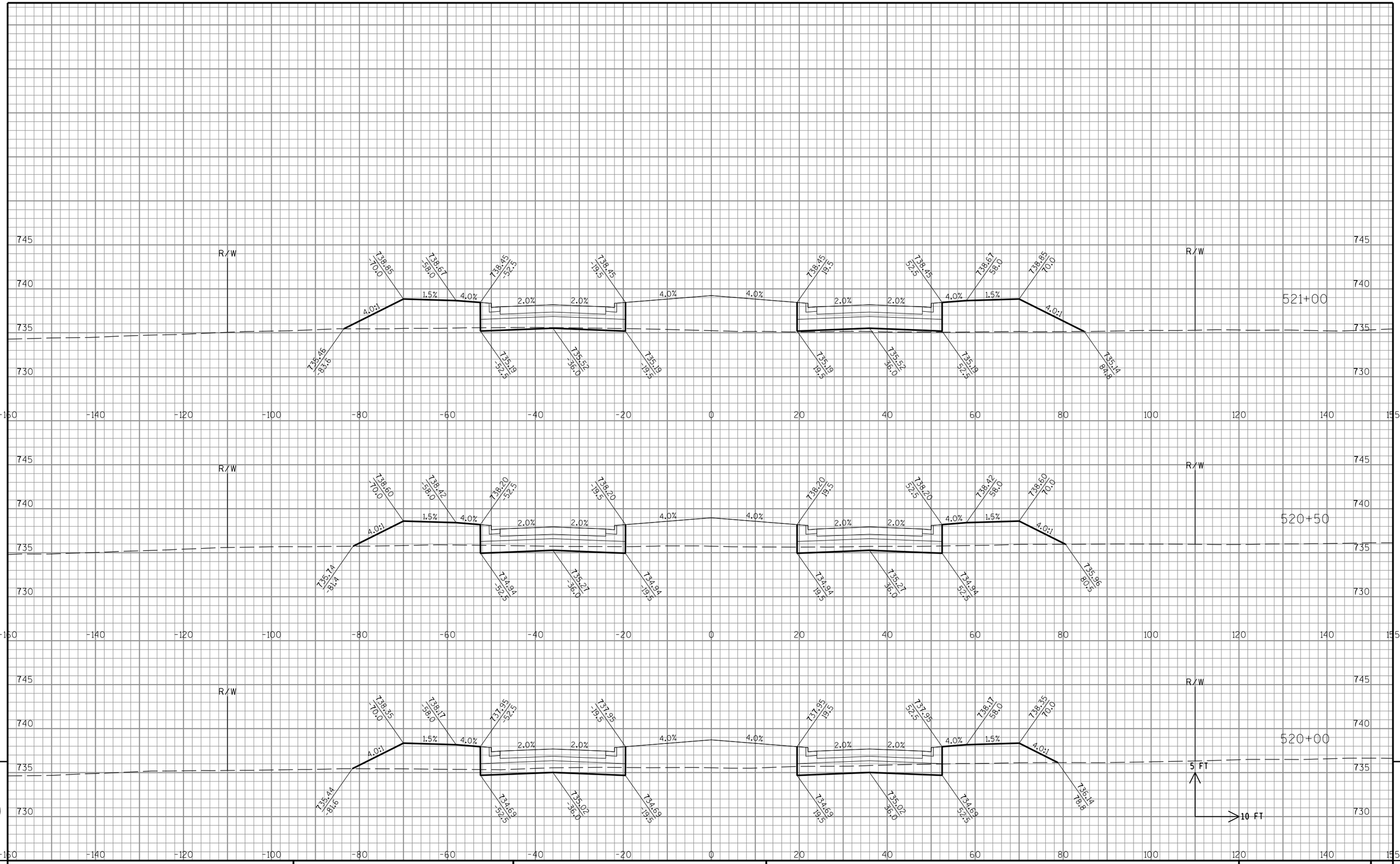


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STATE PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: WISCONN VALLEY WAY	SHEET NO: . 477	E

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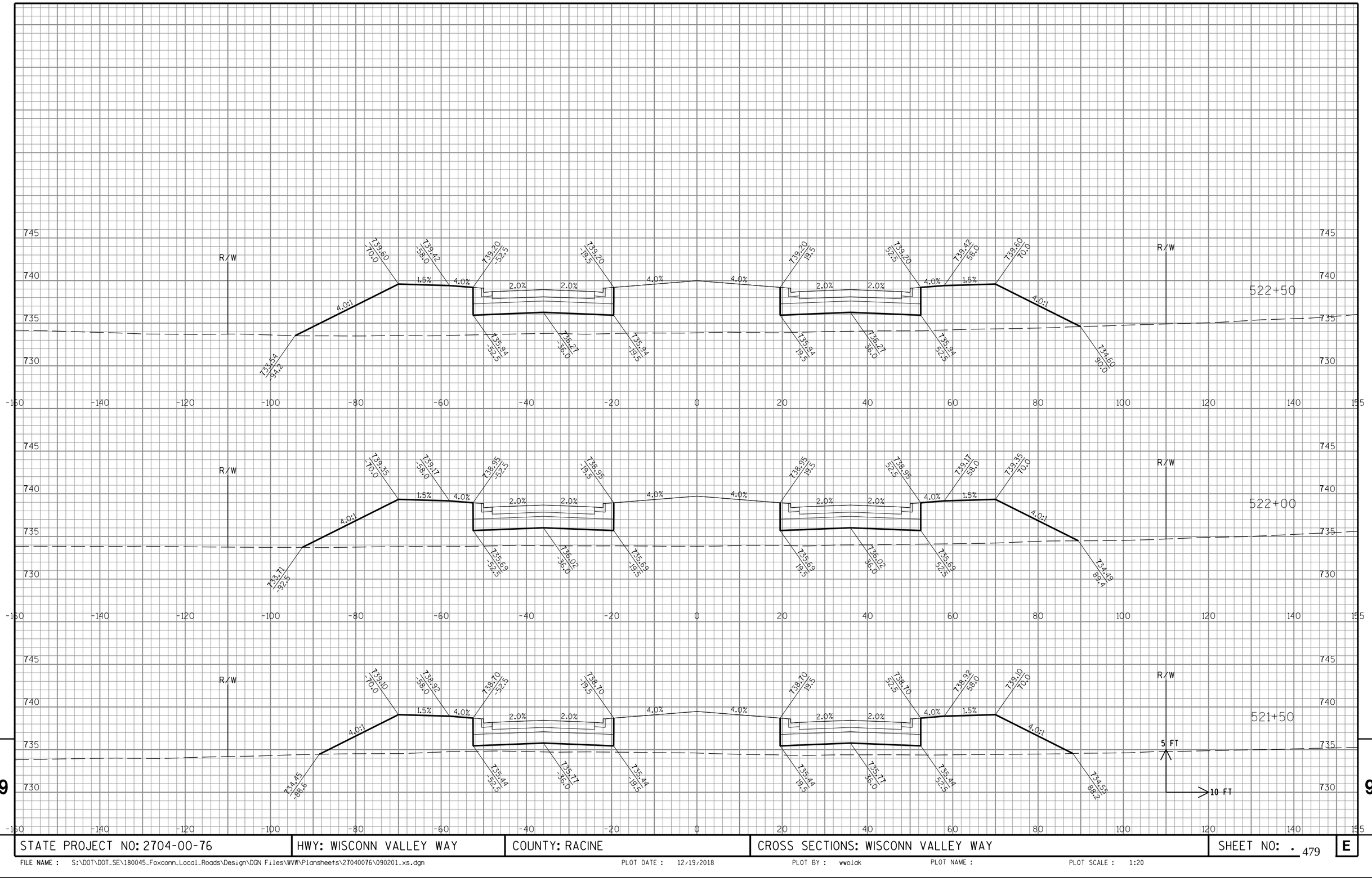


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STATE PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: WISCONN VALLEY WAY	SHEET NO: . 478	E

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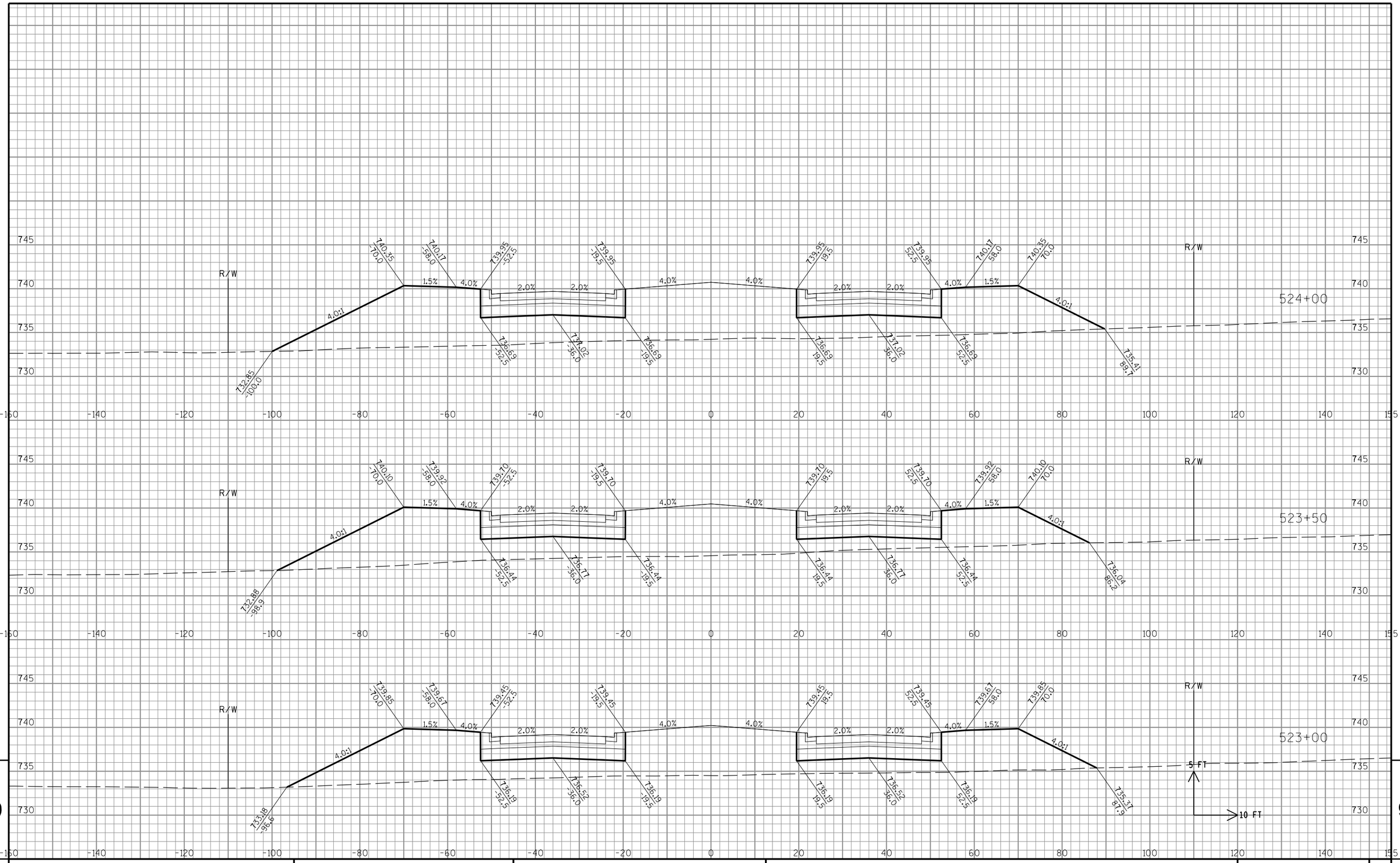


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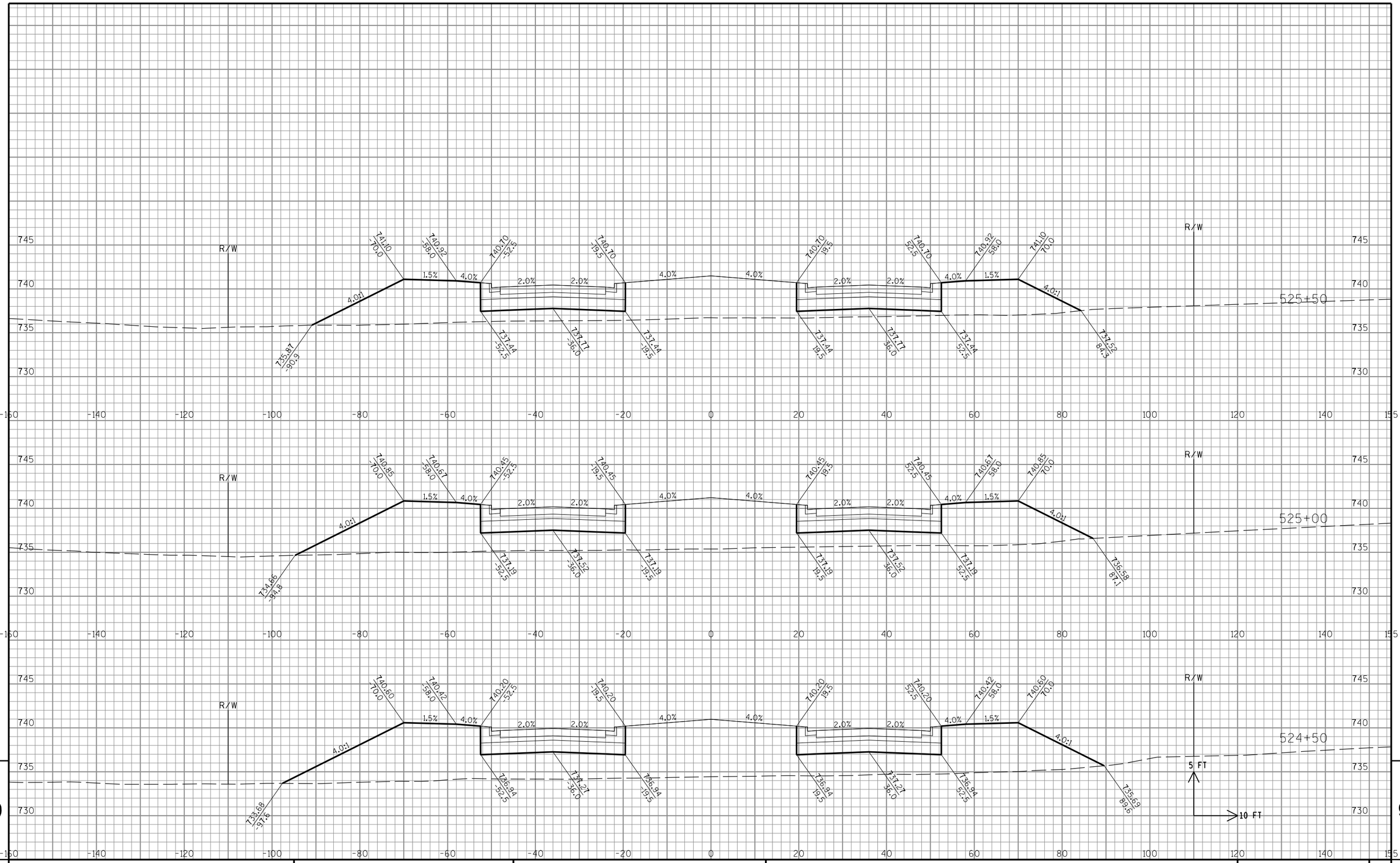
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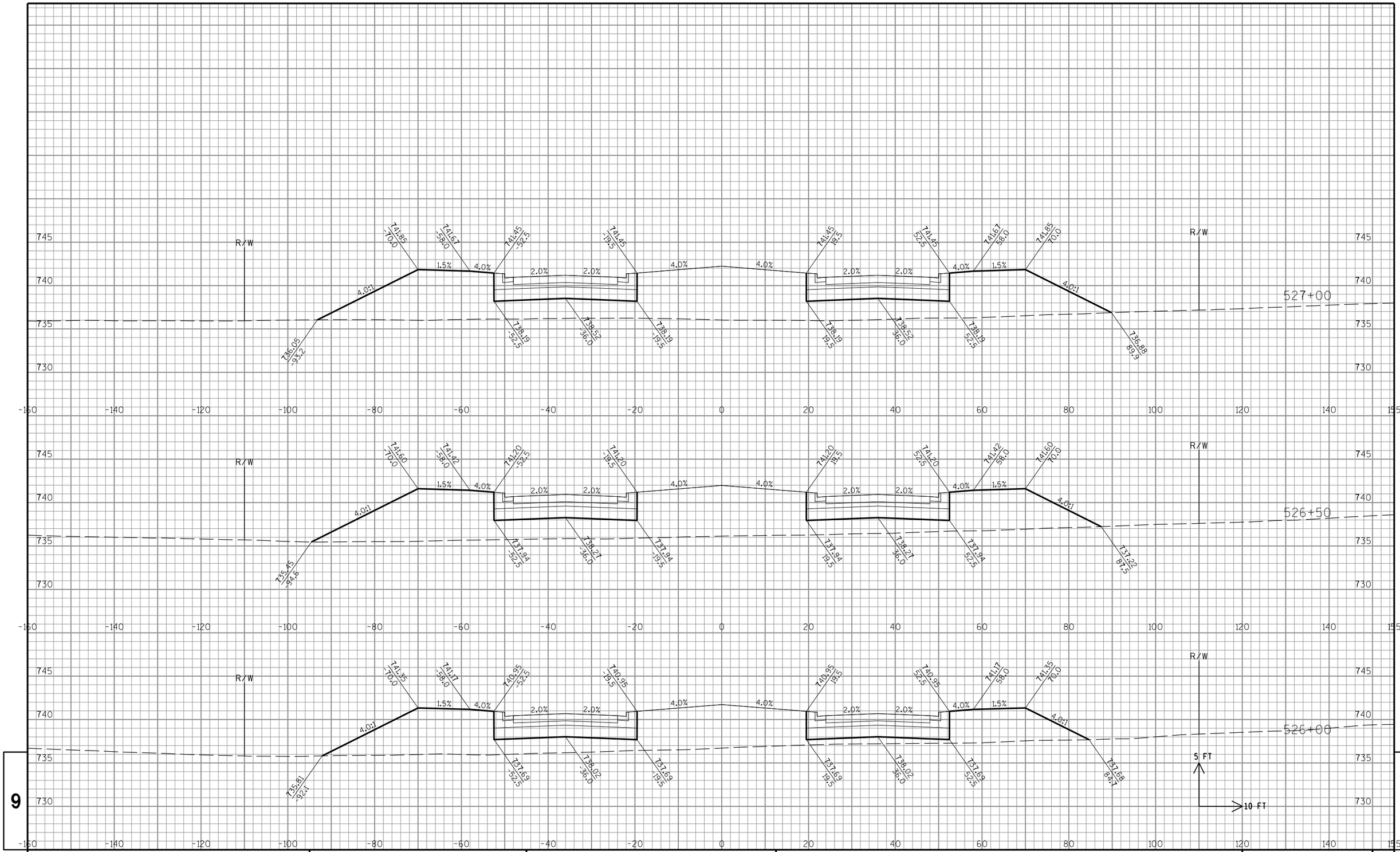
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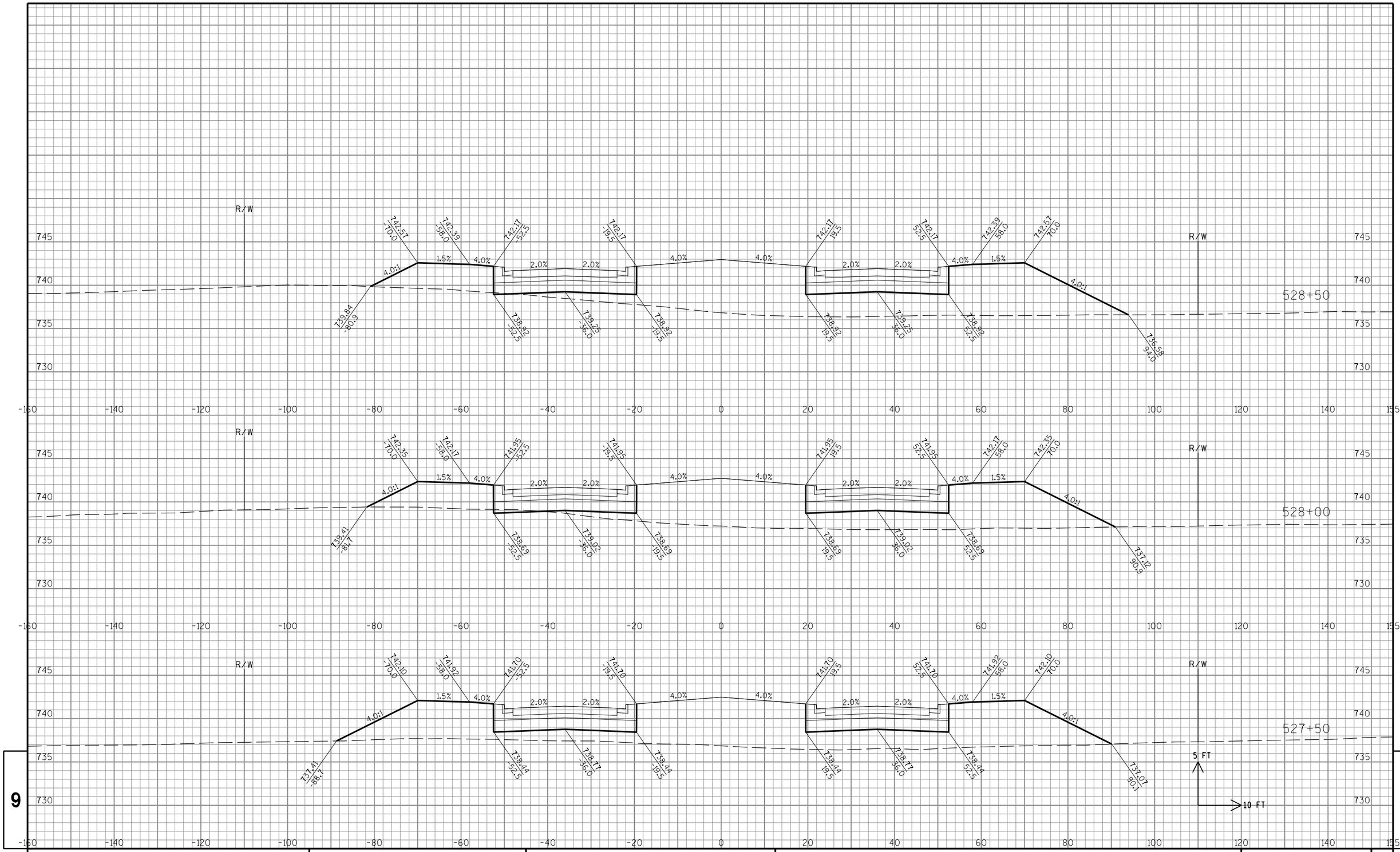
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STATE PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: WISCONN VALLEY WAY	SHEET NO: . 482	E

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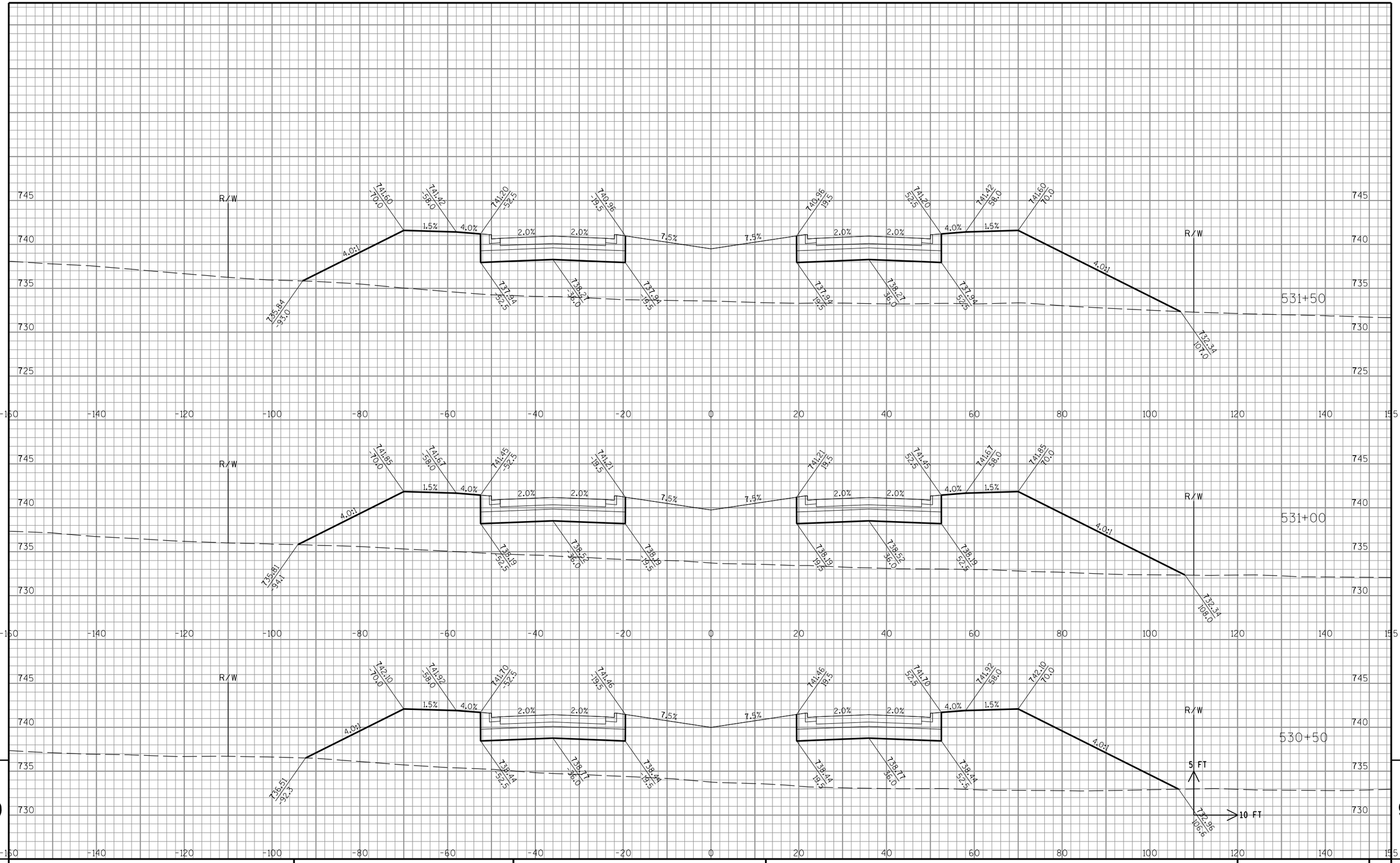
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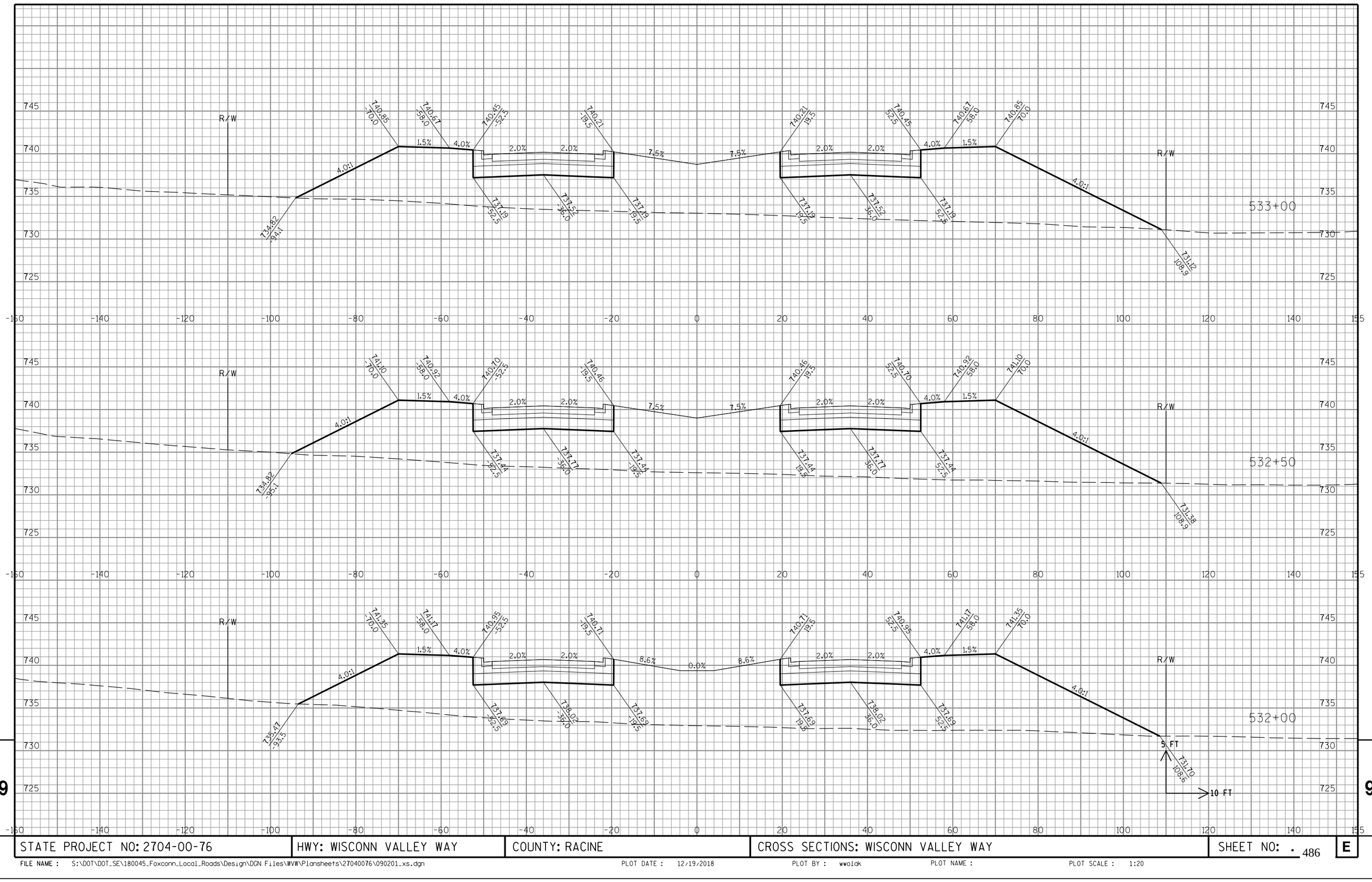
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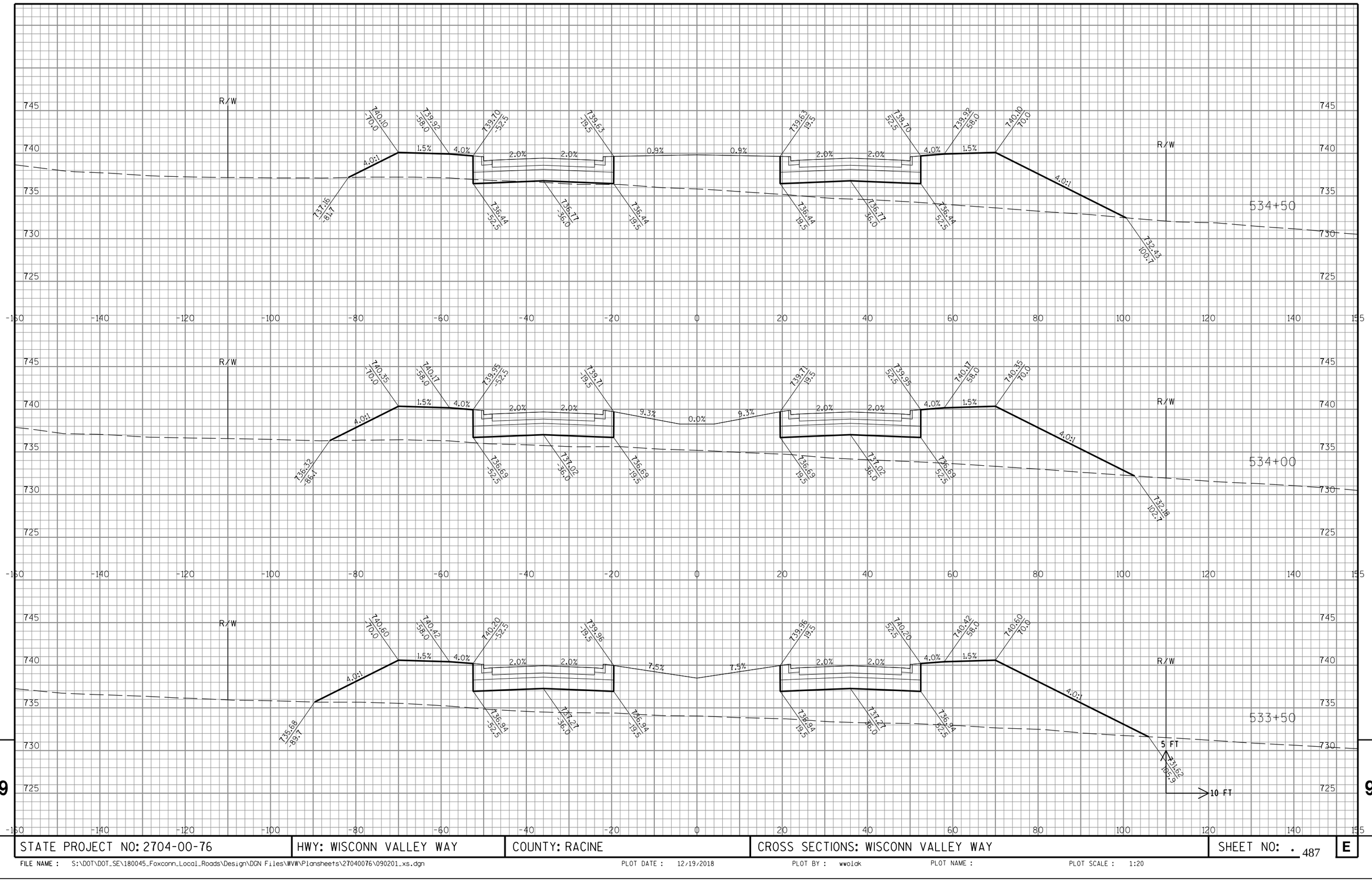


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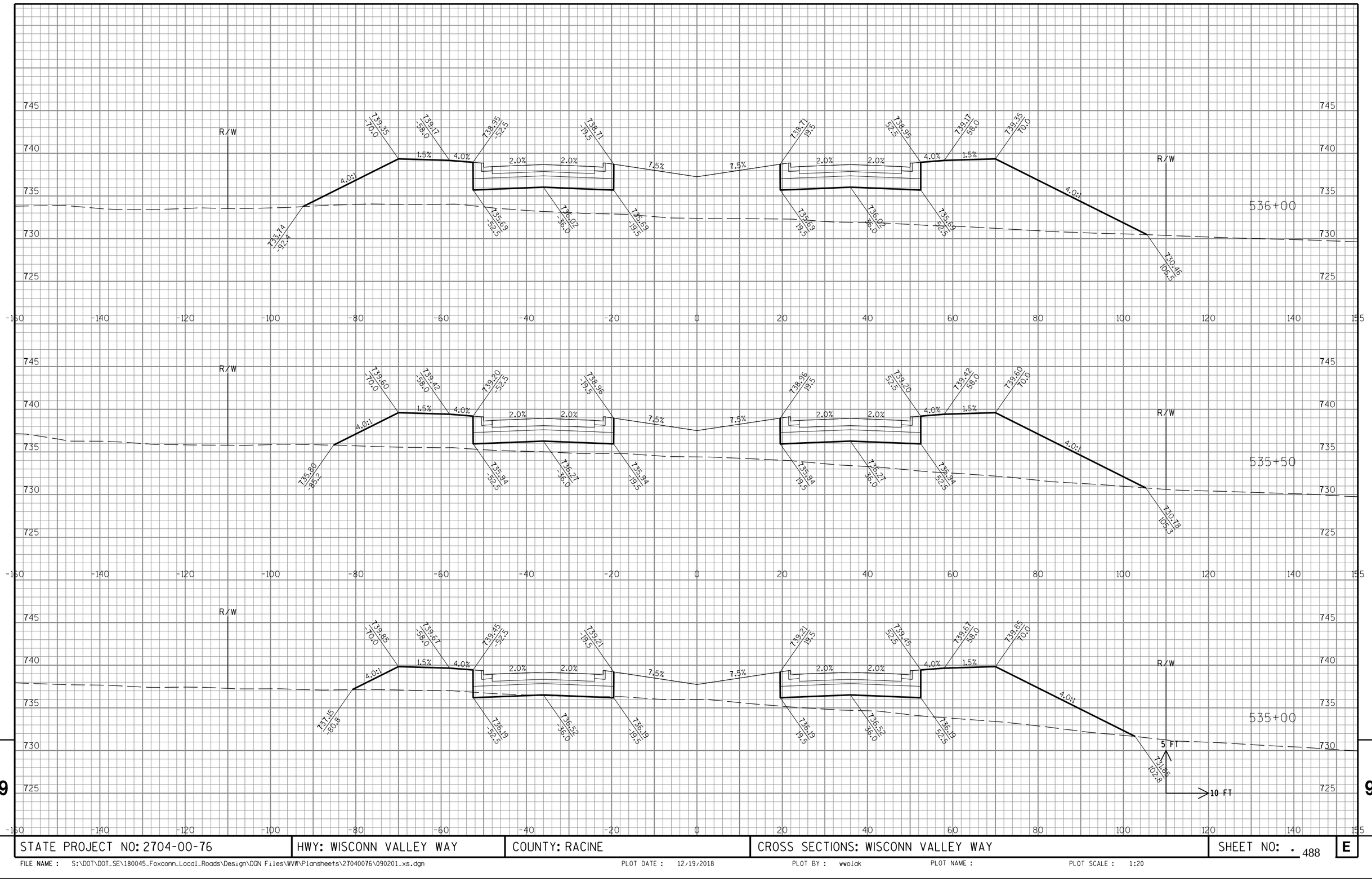


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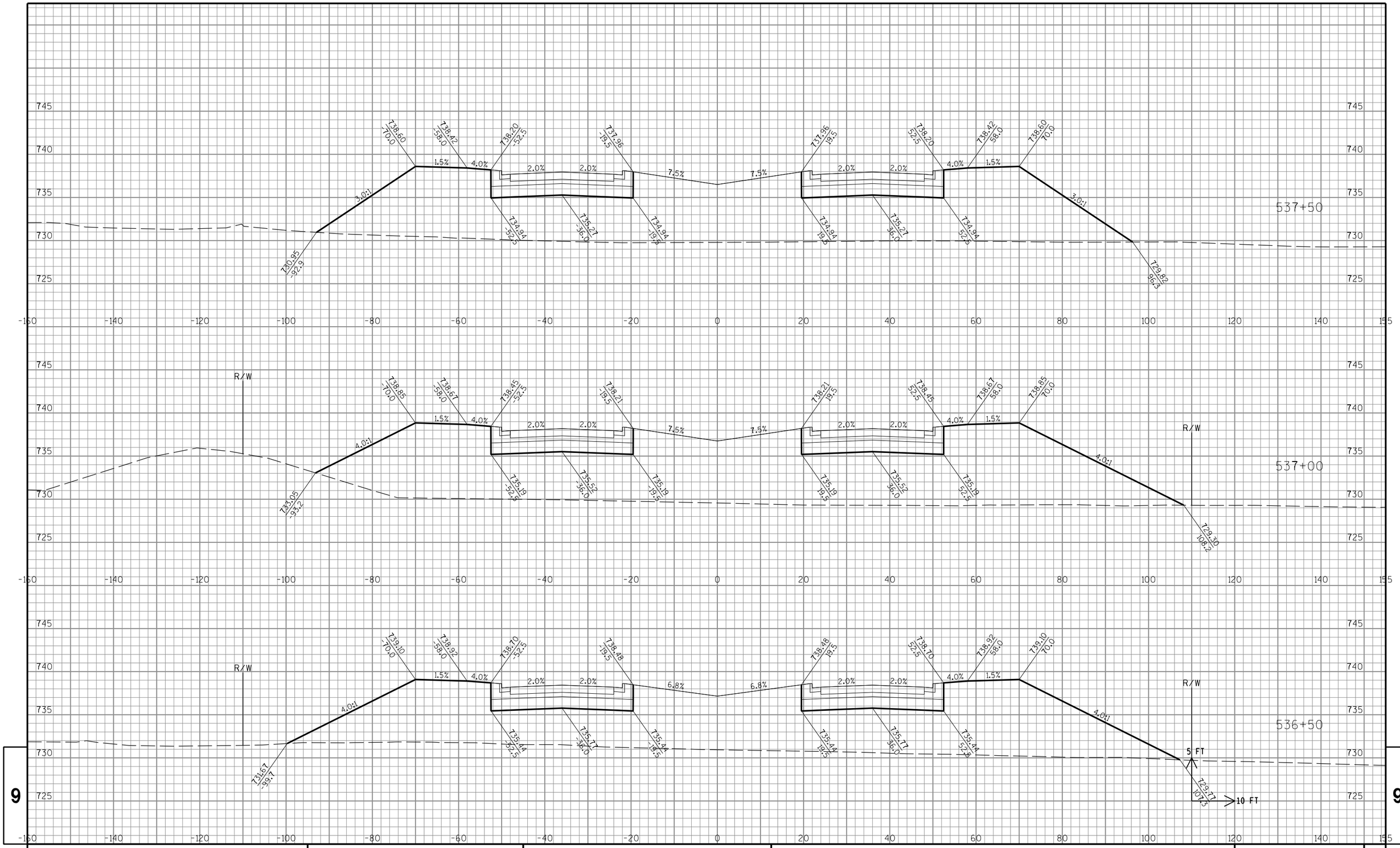


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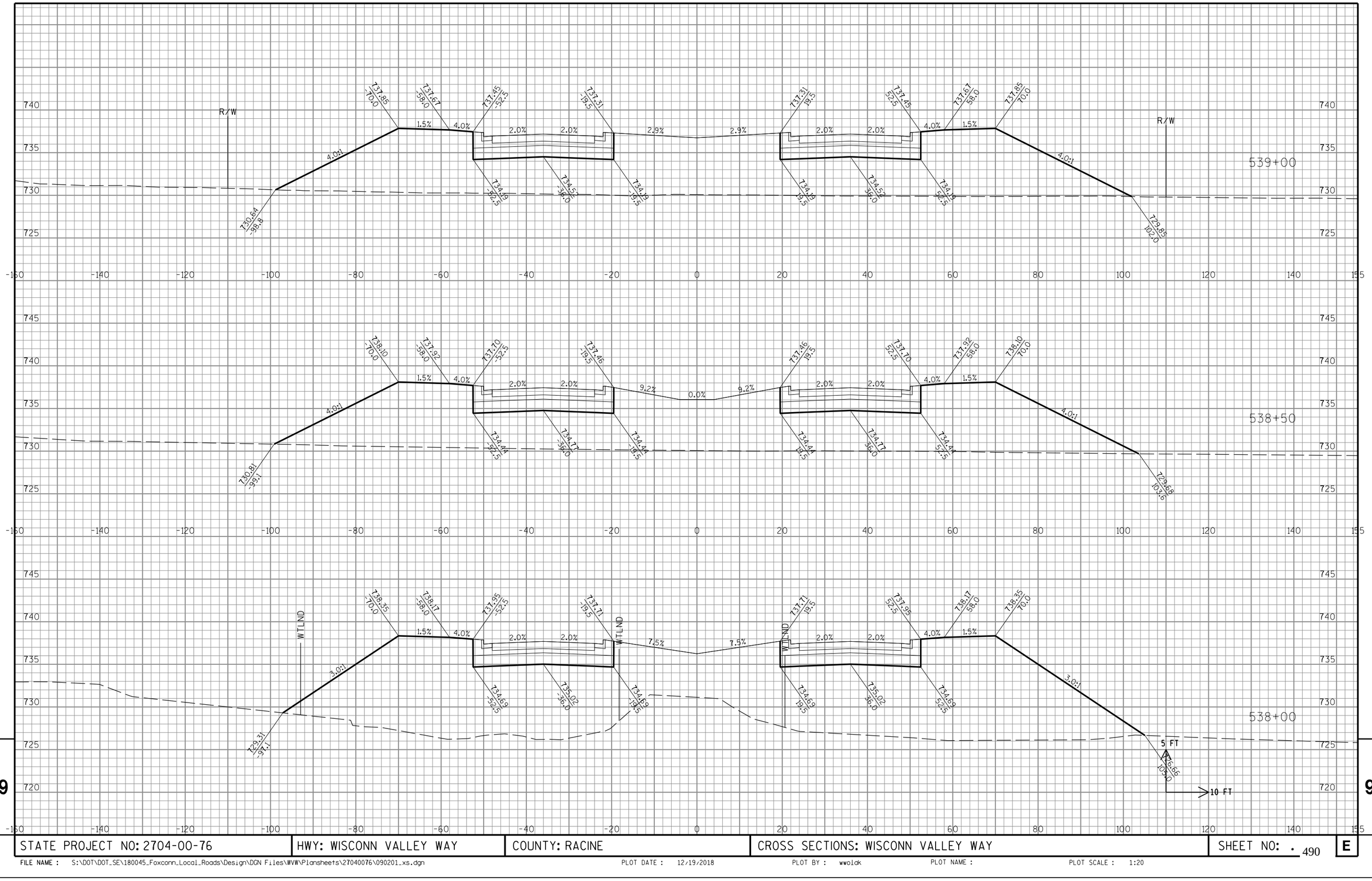


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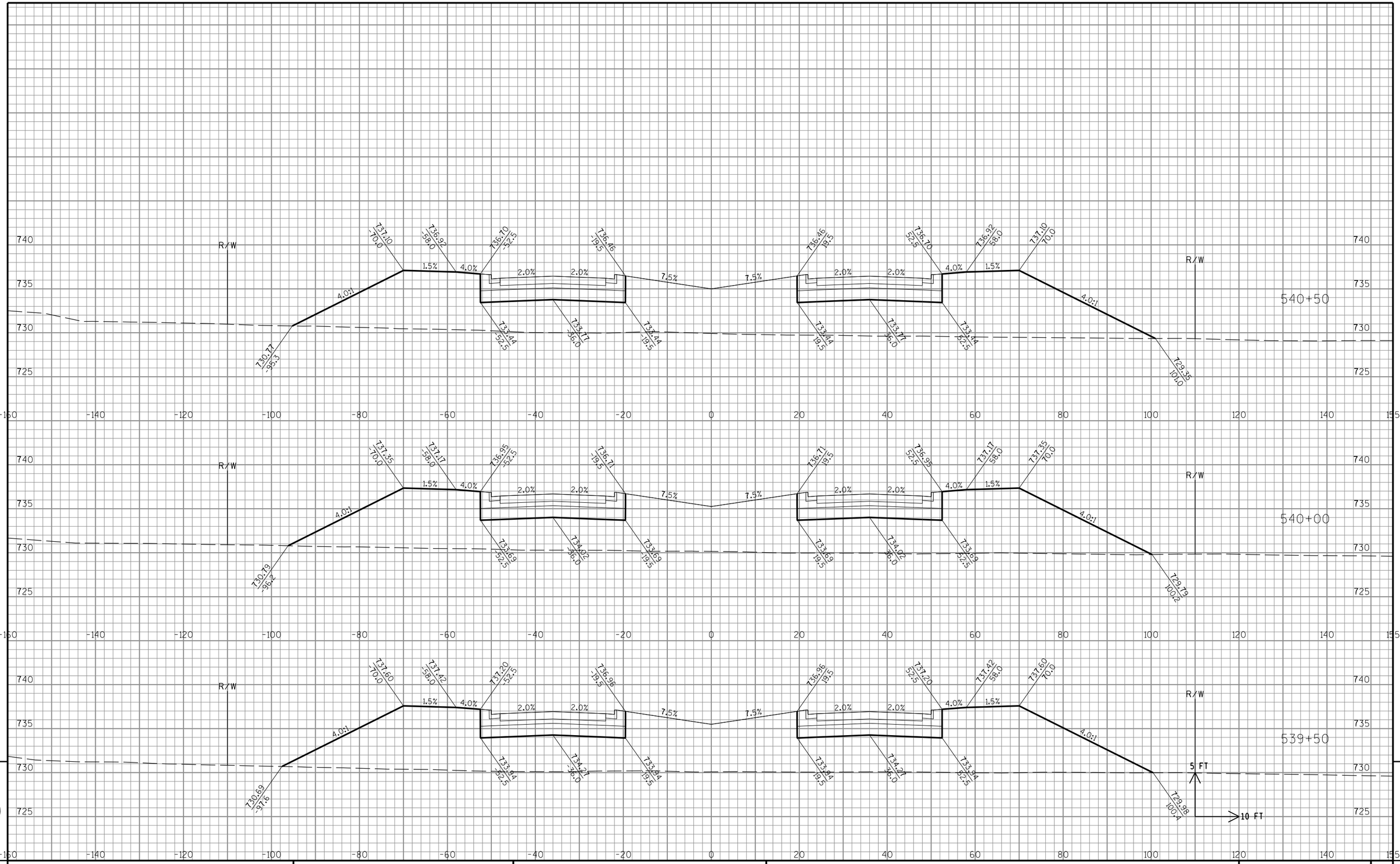
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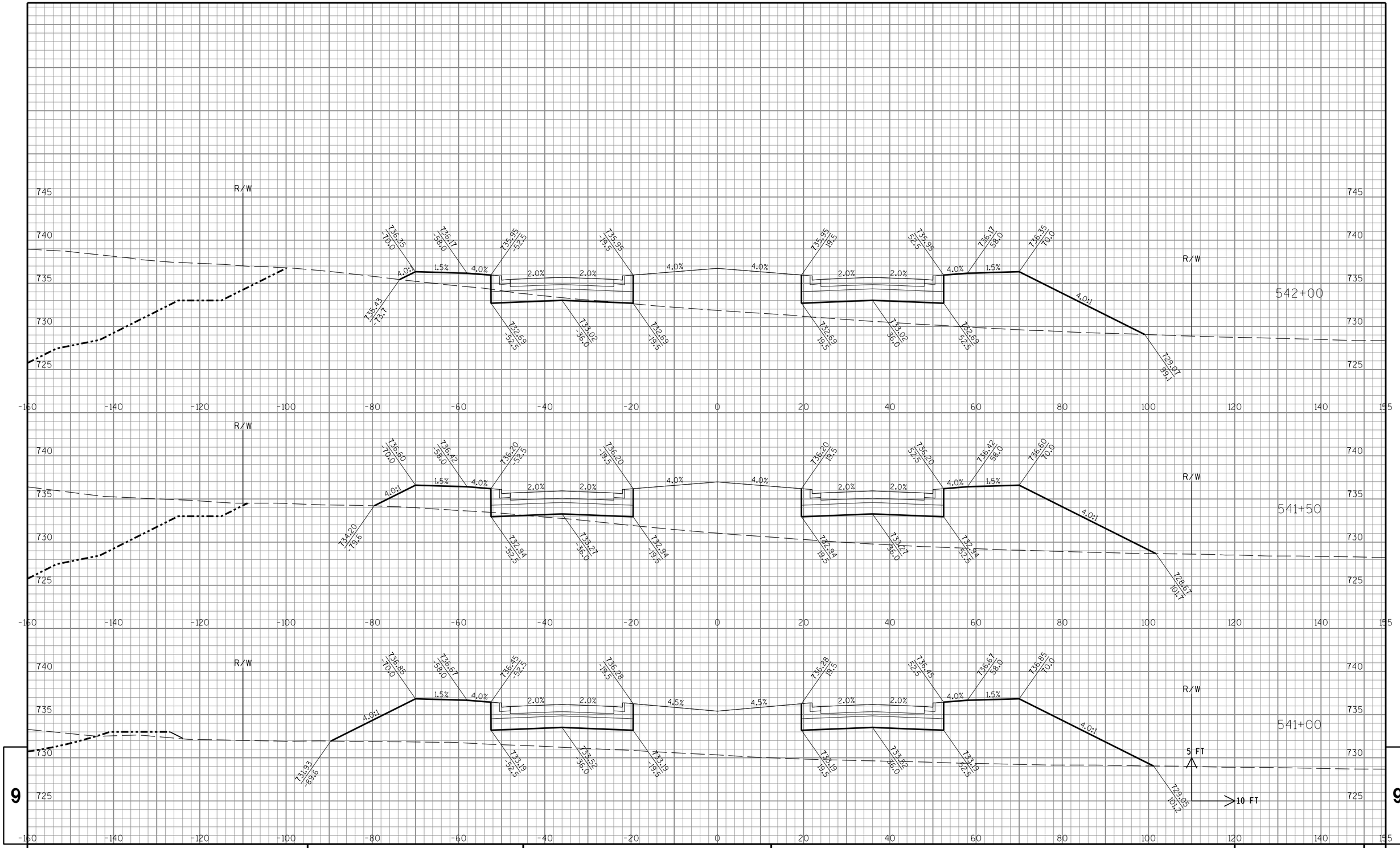


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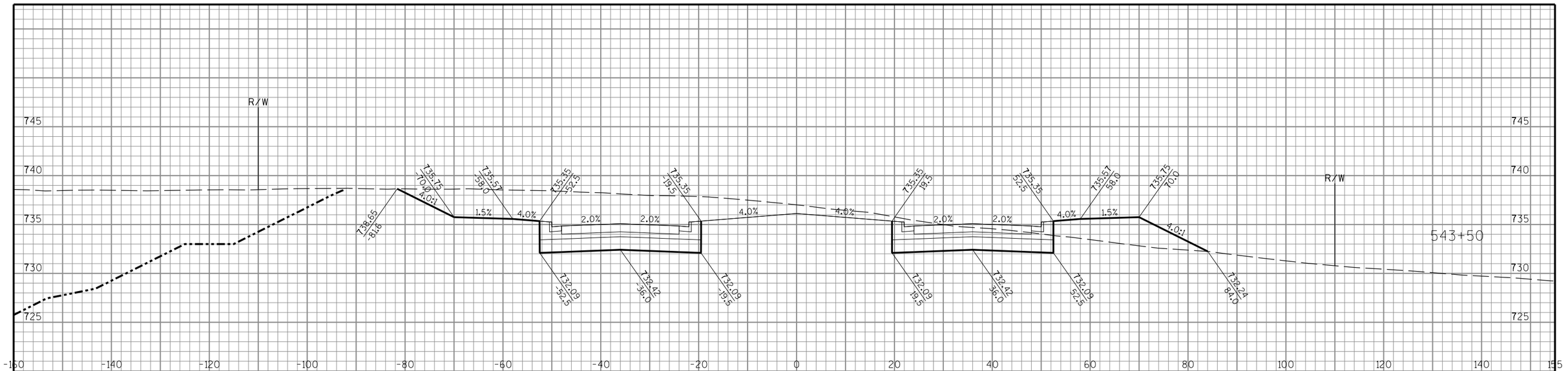


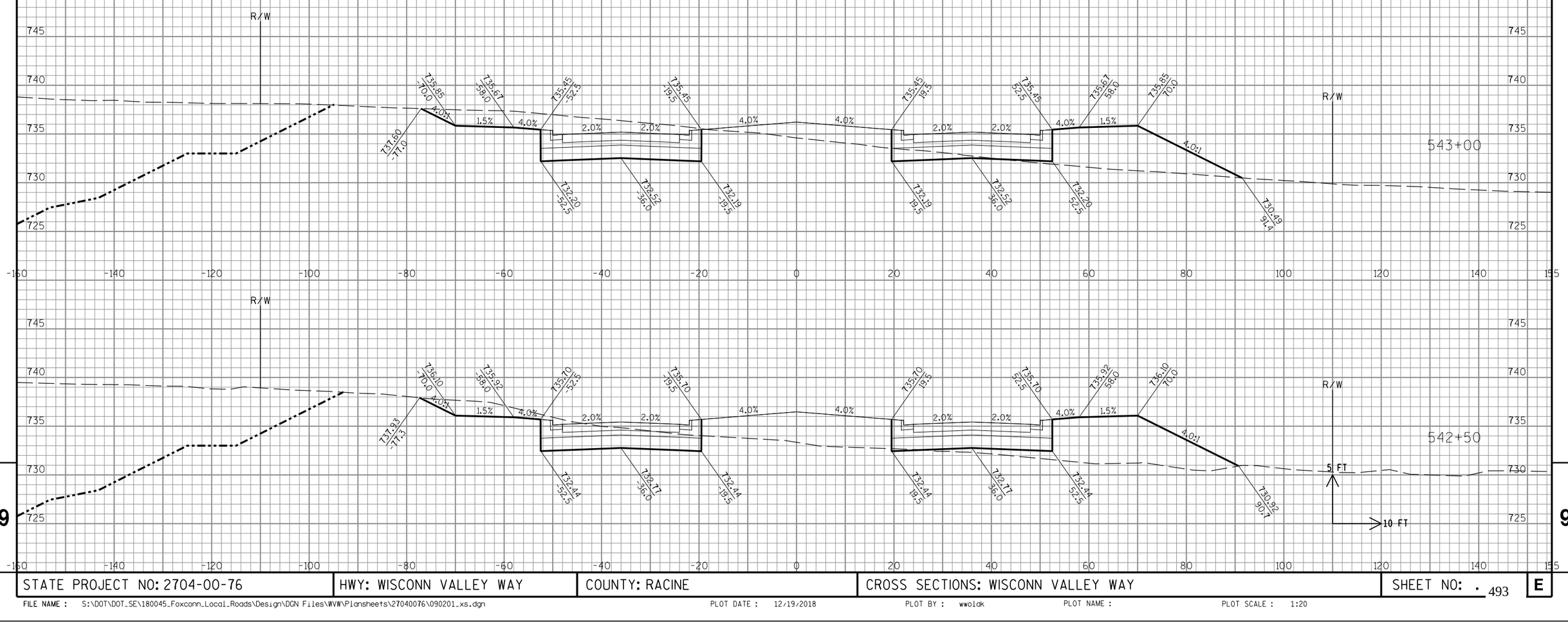
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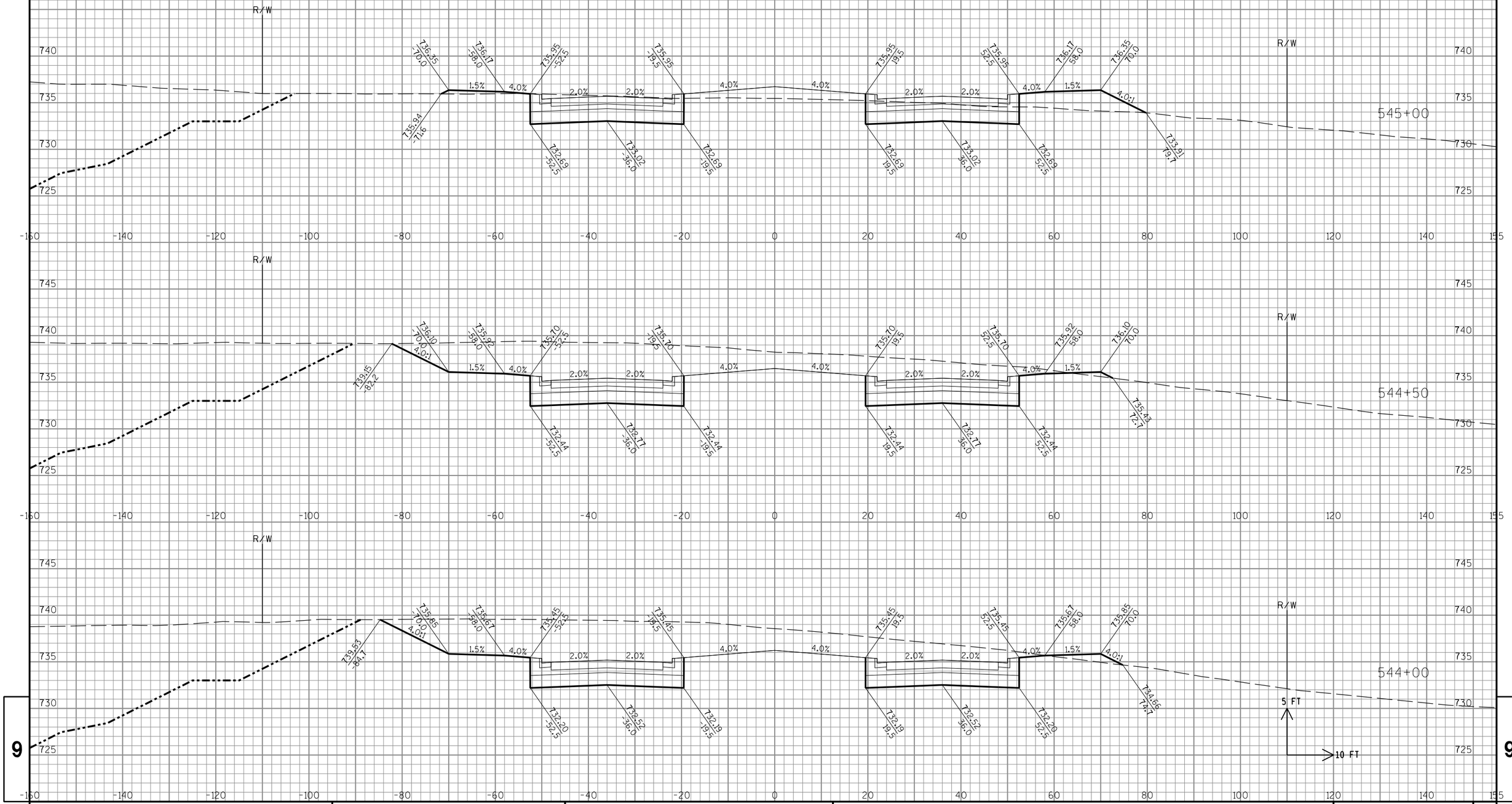


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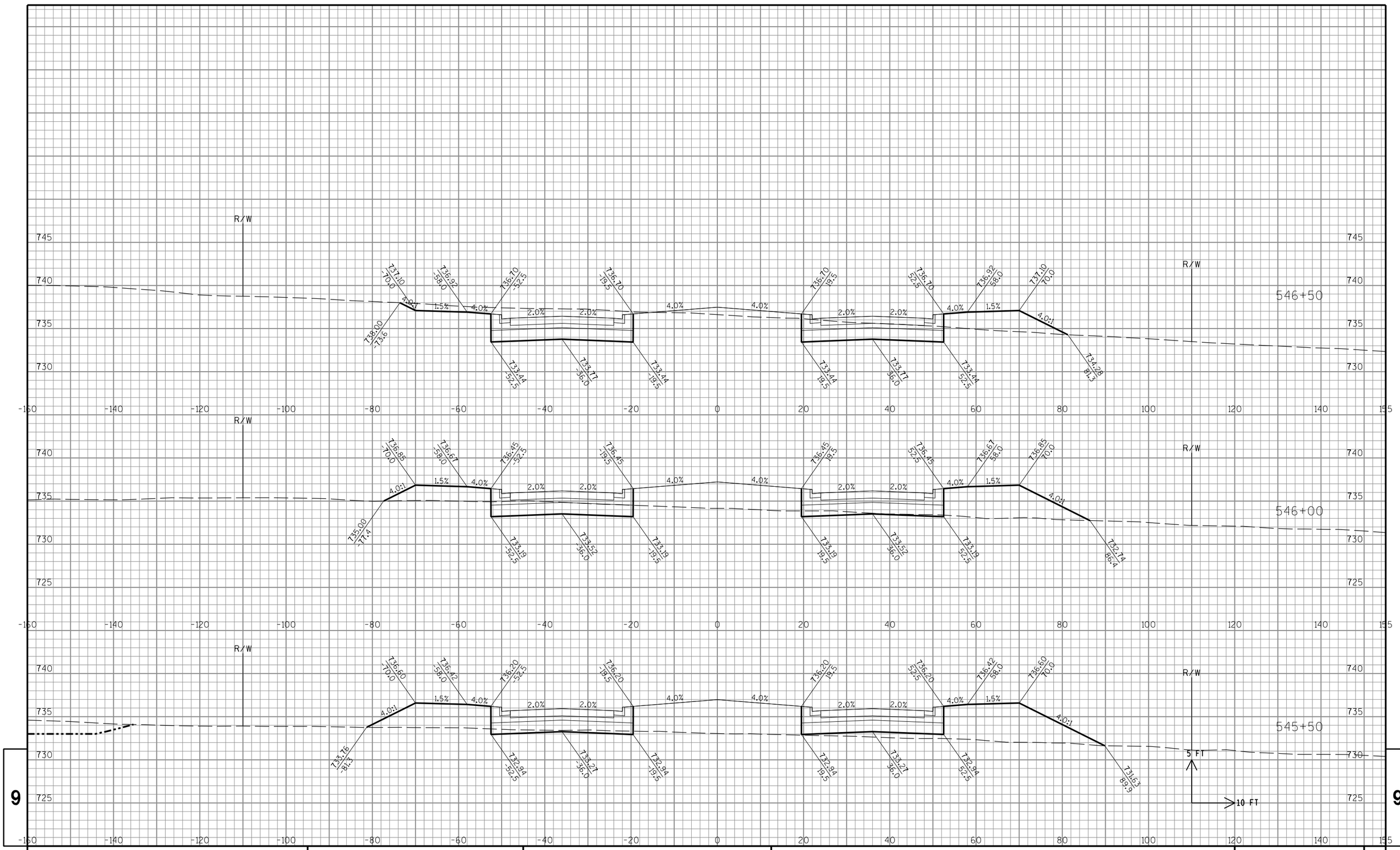


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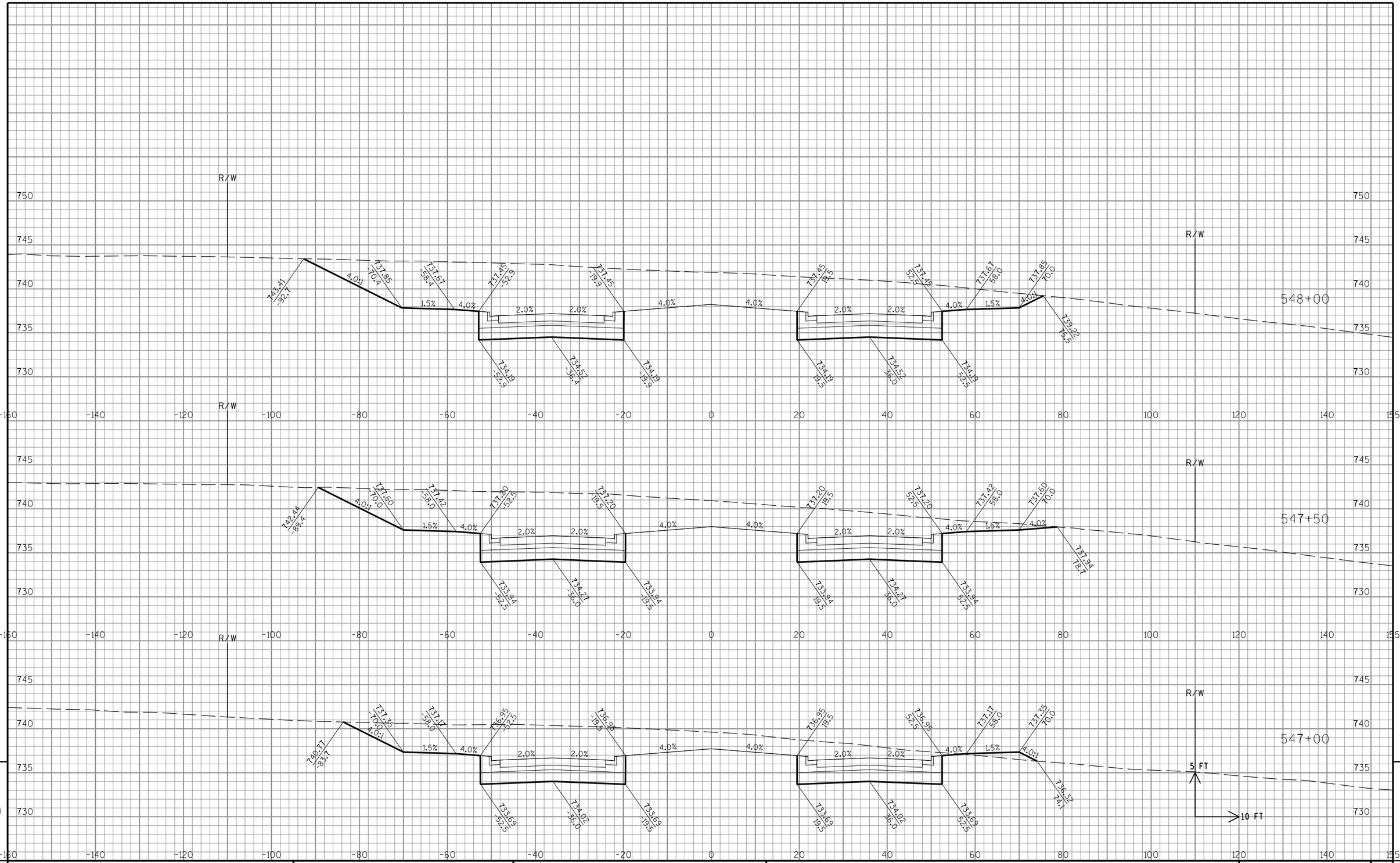
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STATE PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: WISCONN VALLEY WAY	SHEET NO: . 496	E

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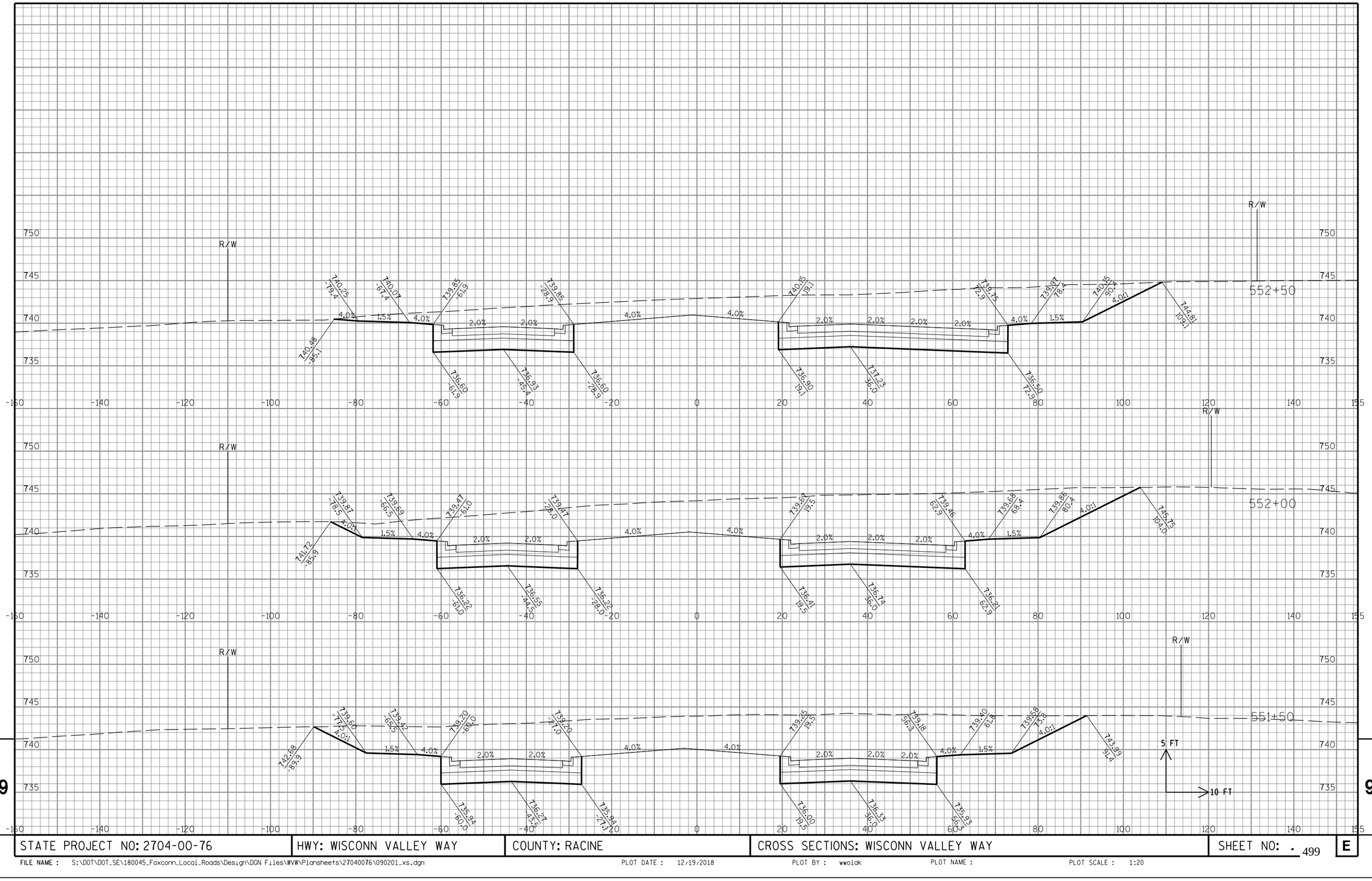
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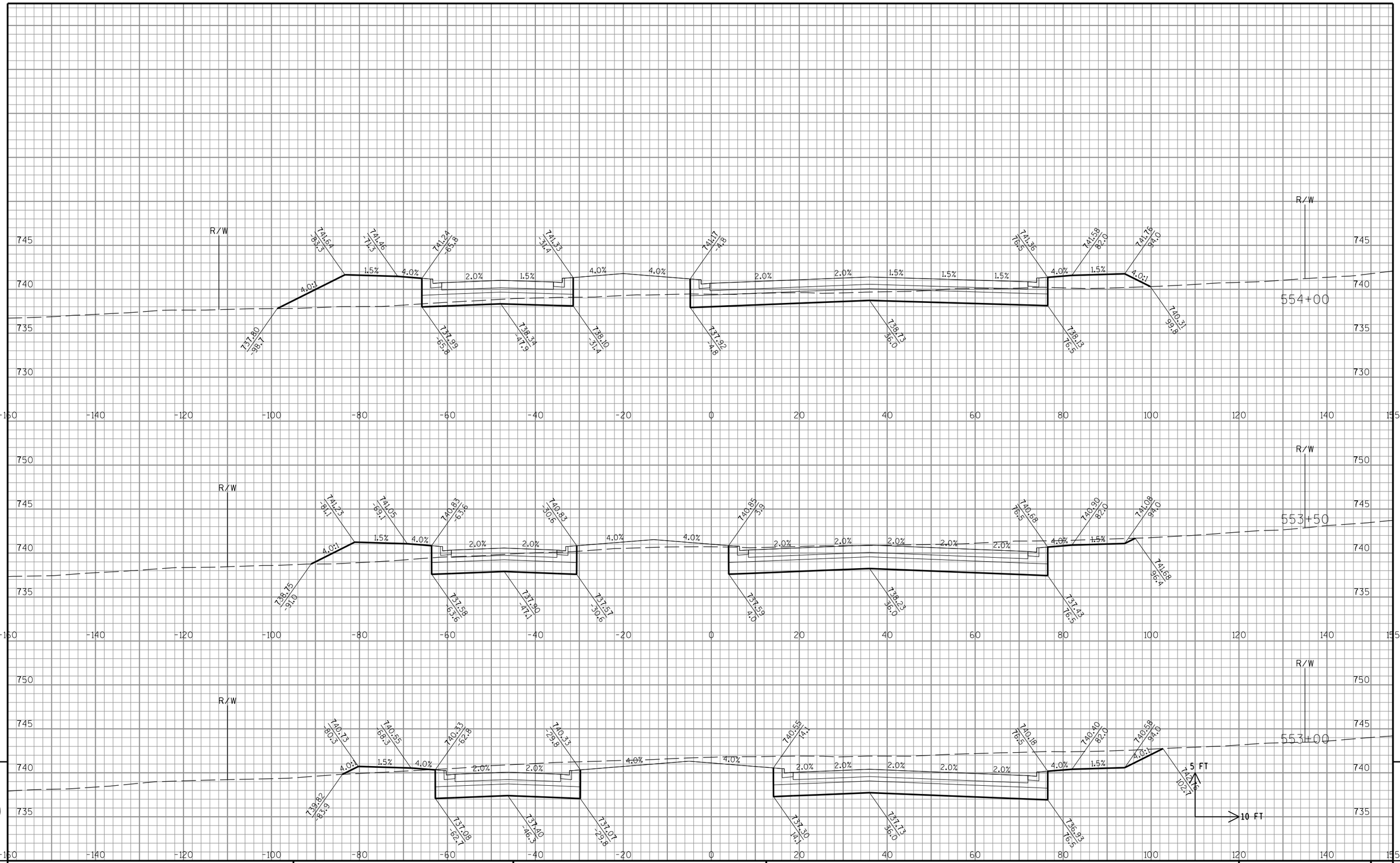
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STATE PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: WISCONN VALLEY WAY	SHEET NO: . 499	E

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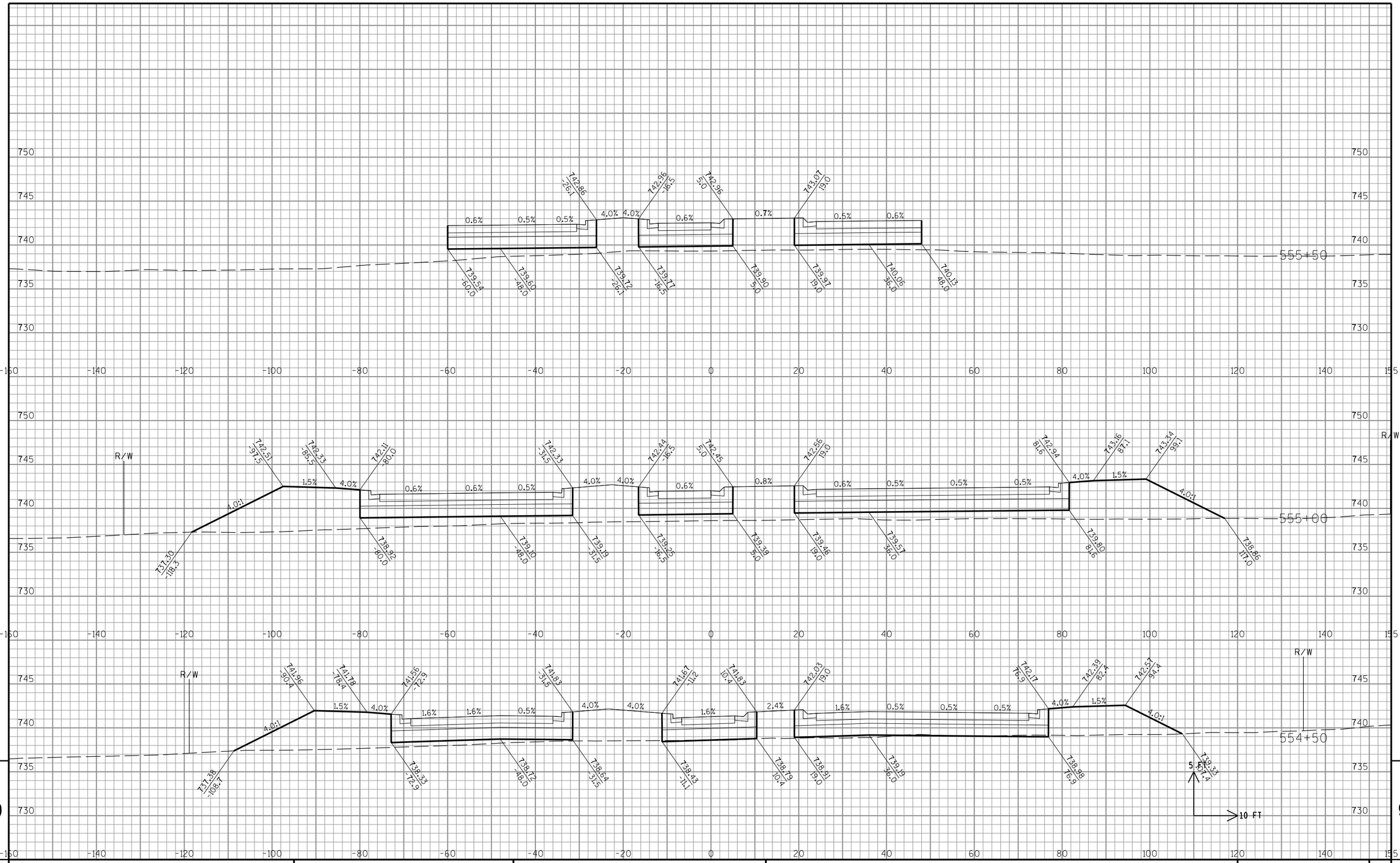


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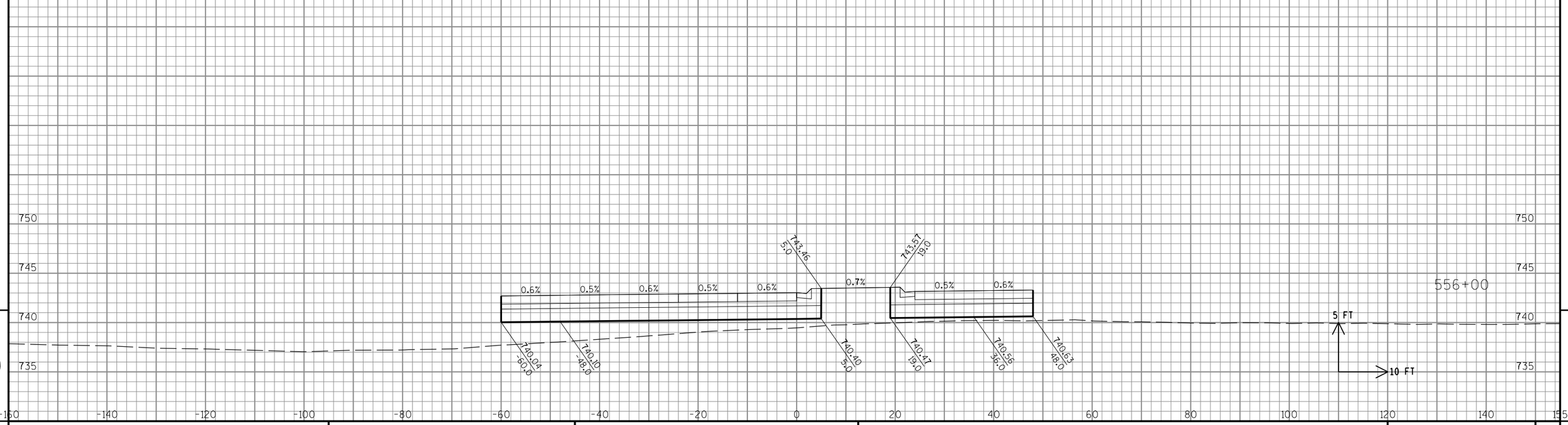
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STATE PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: WISCONN VALLEY WAY	SHEET NO: . 501	E

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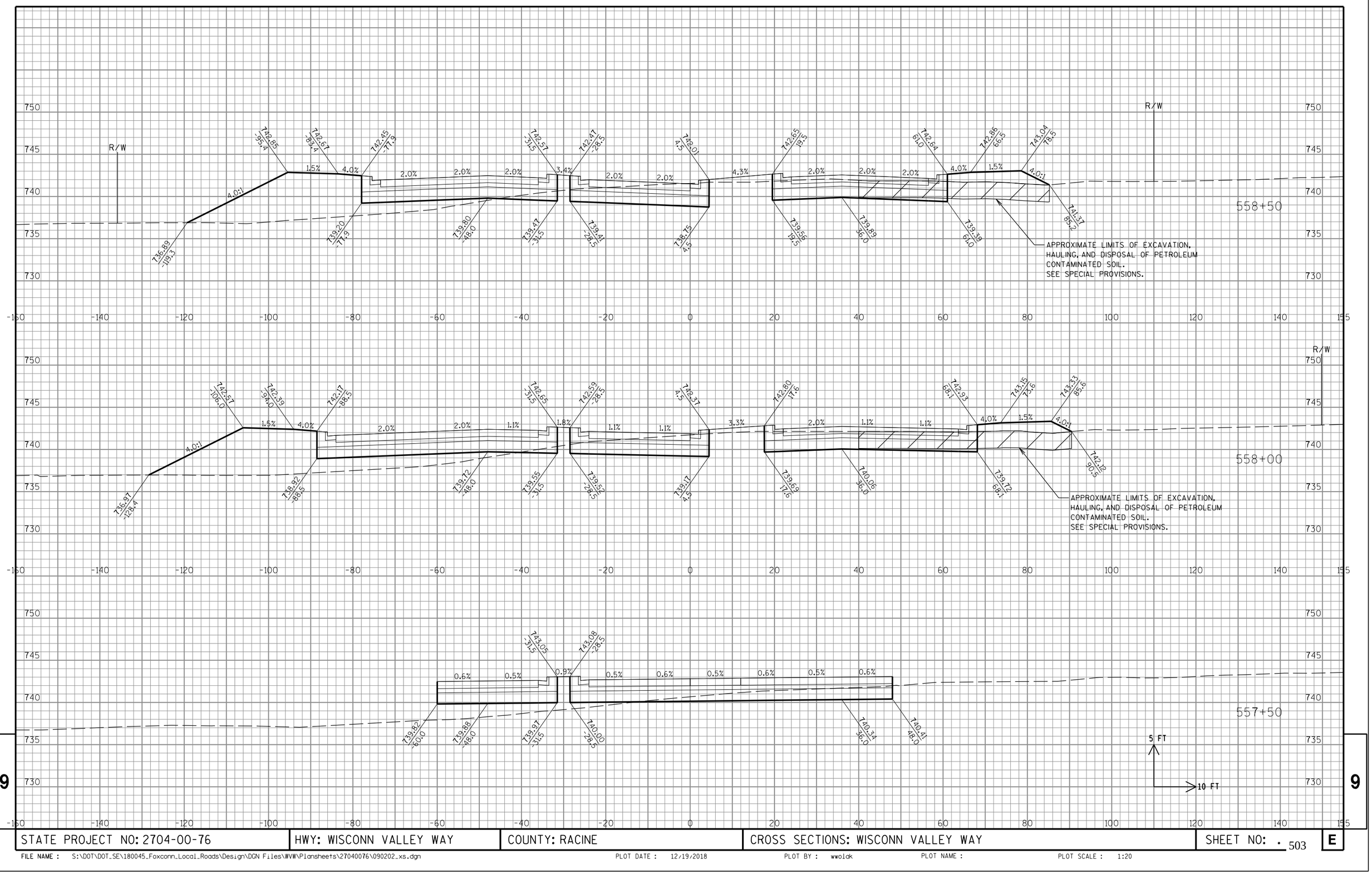


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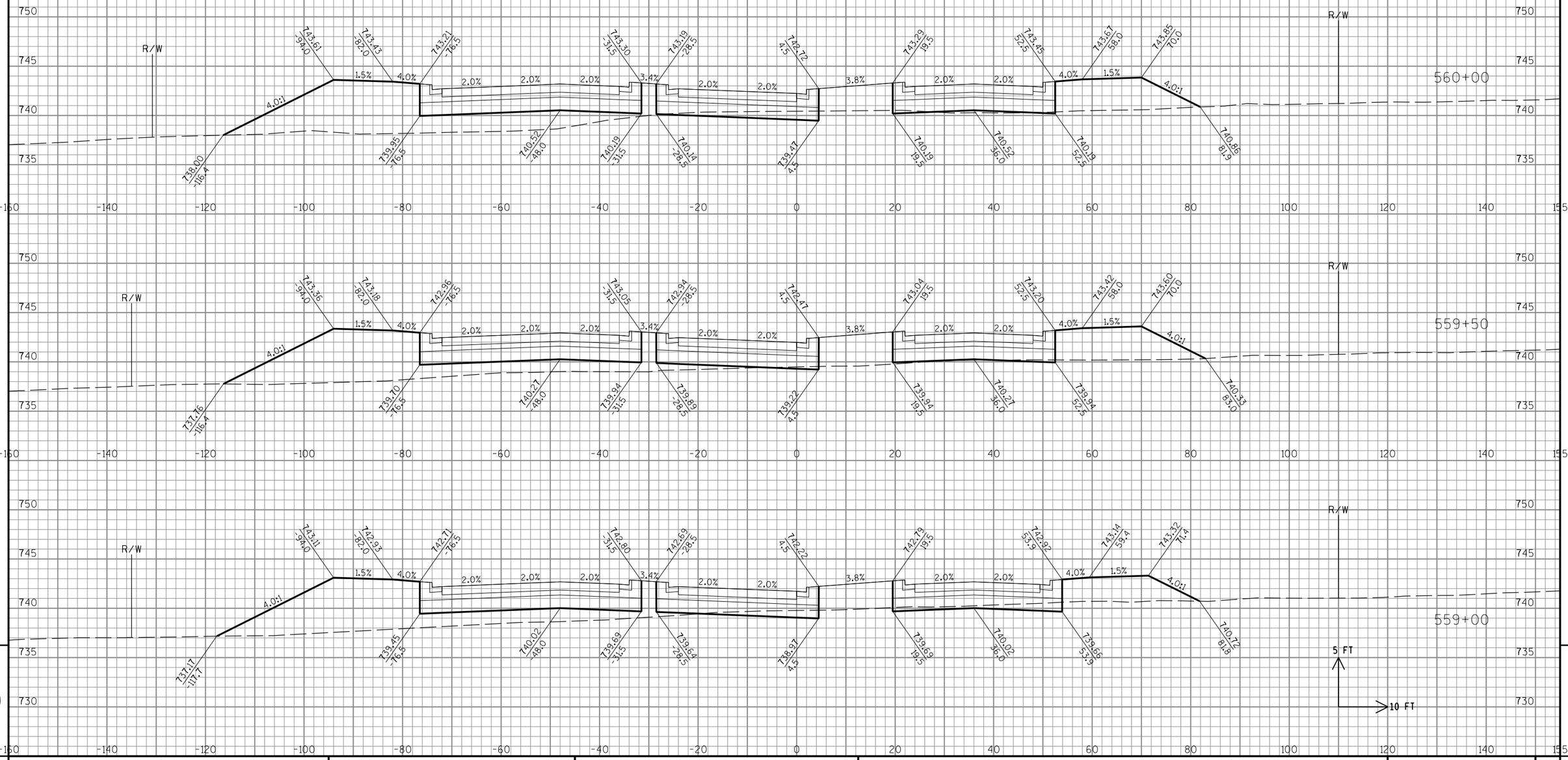
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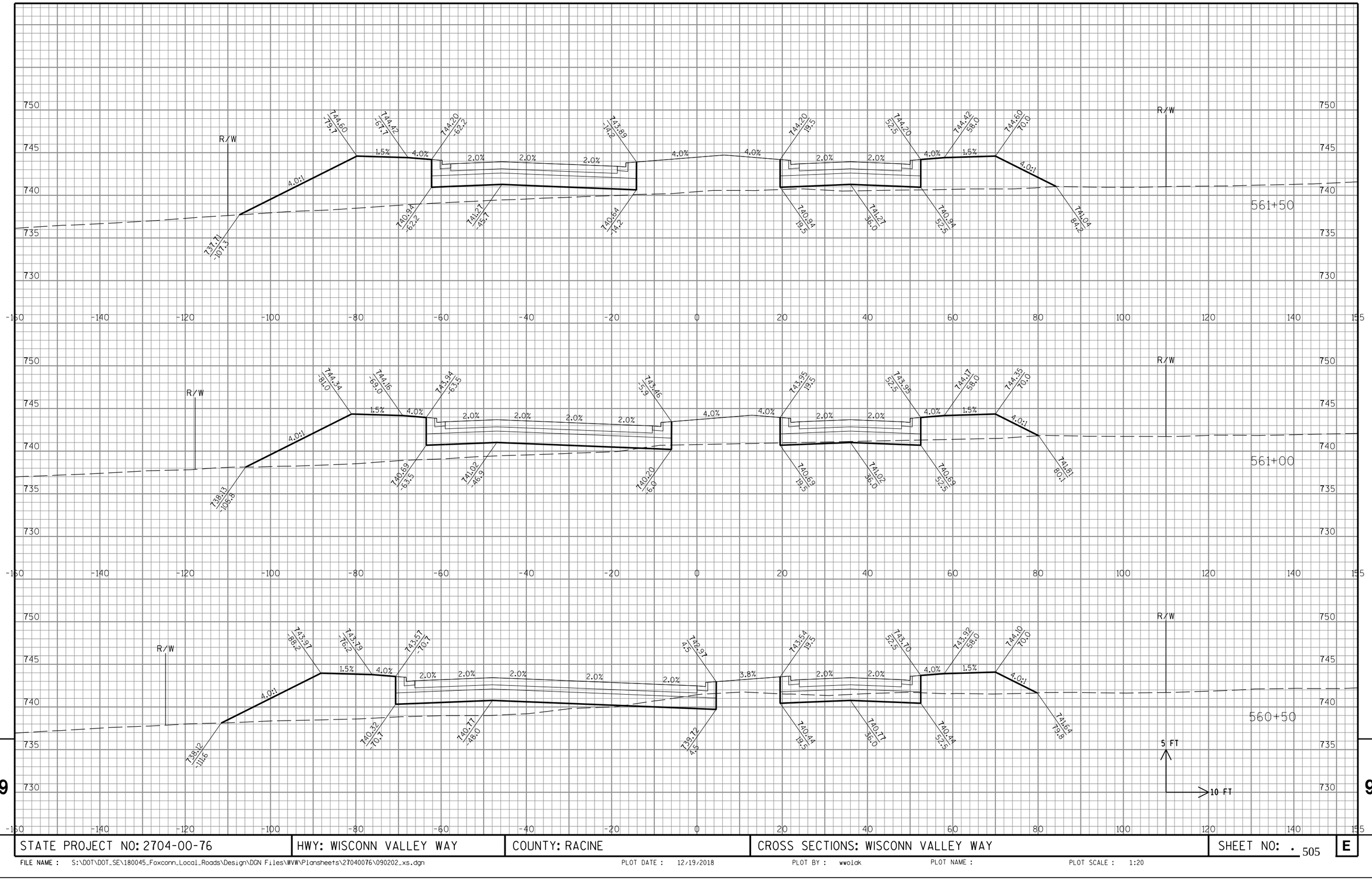
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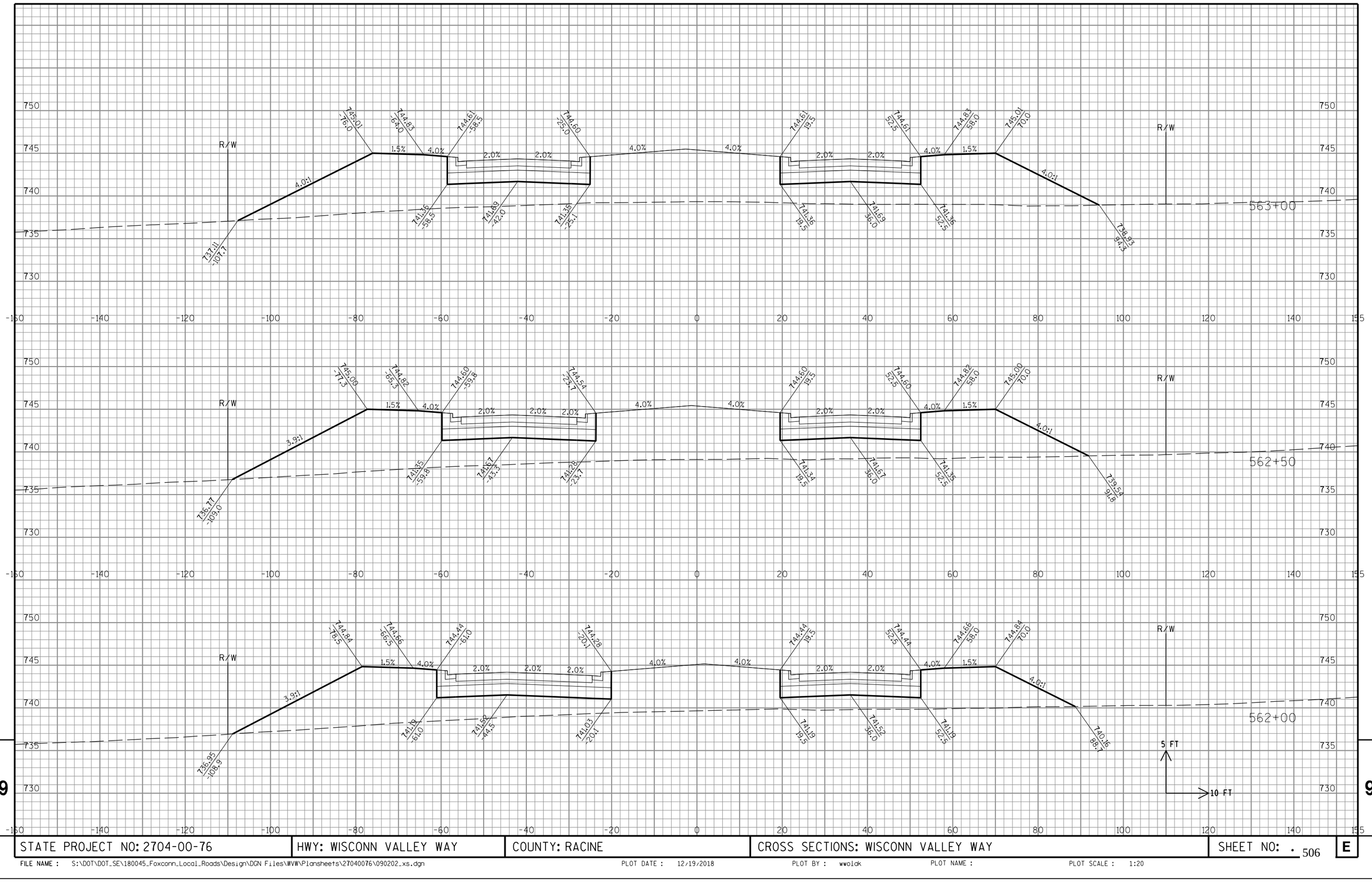
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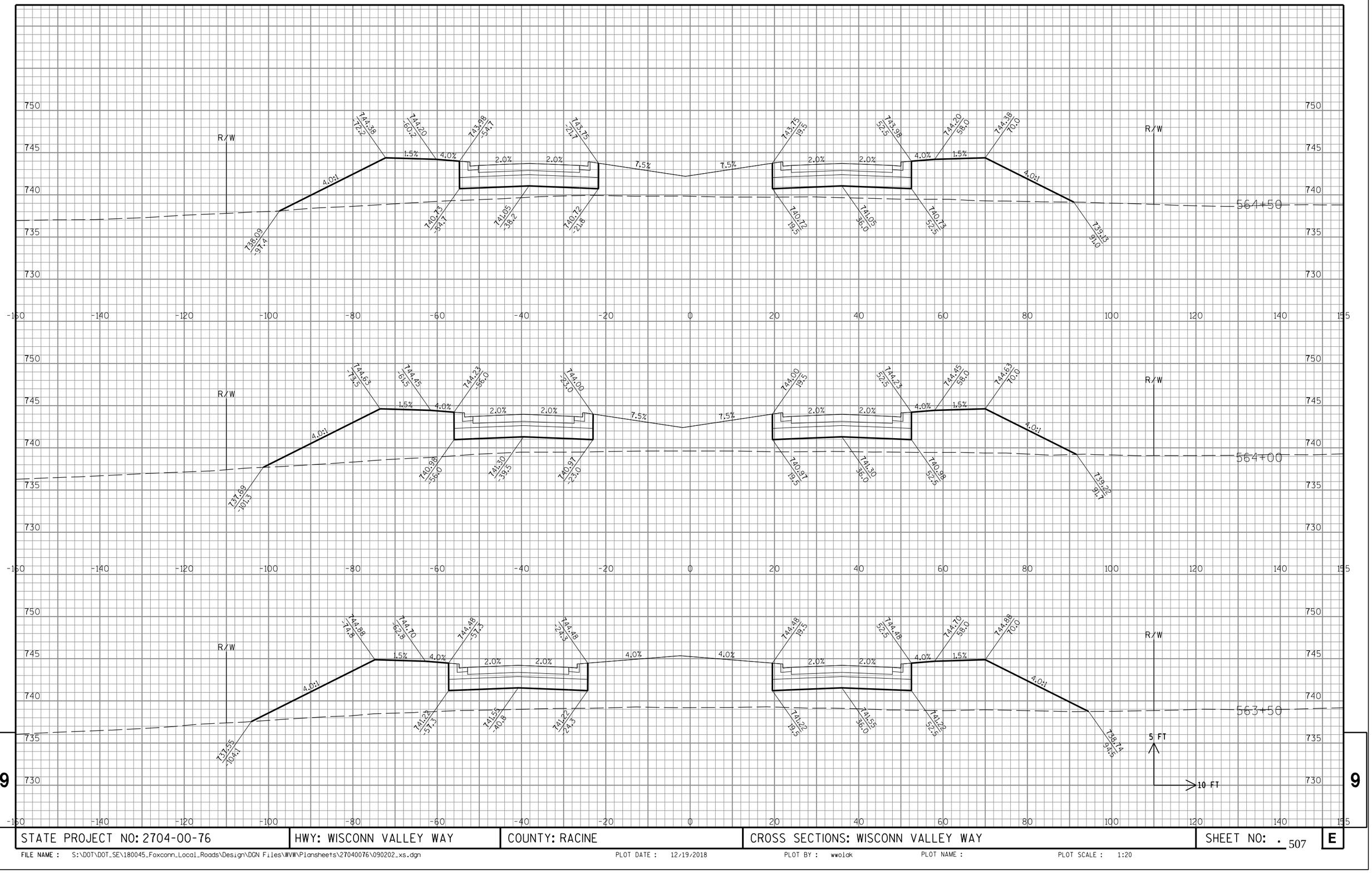


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STATE PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: WISCONN VALLEY WAY	SHEET NO: . 506	E

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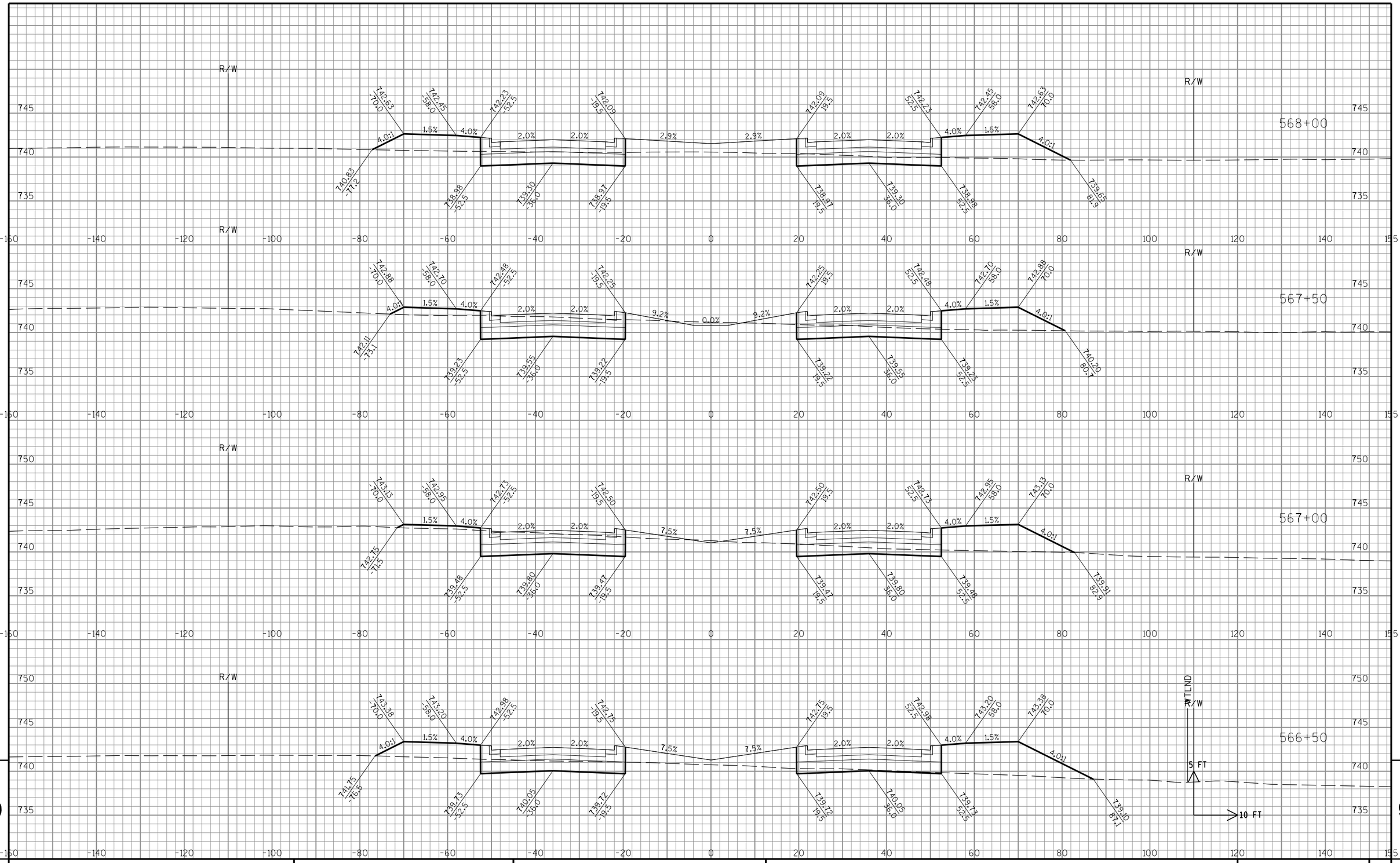
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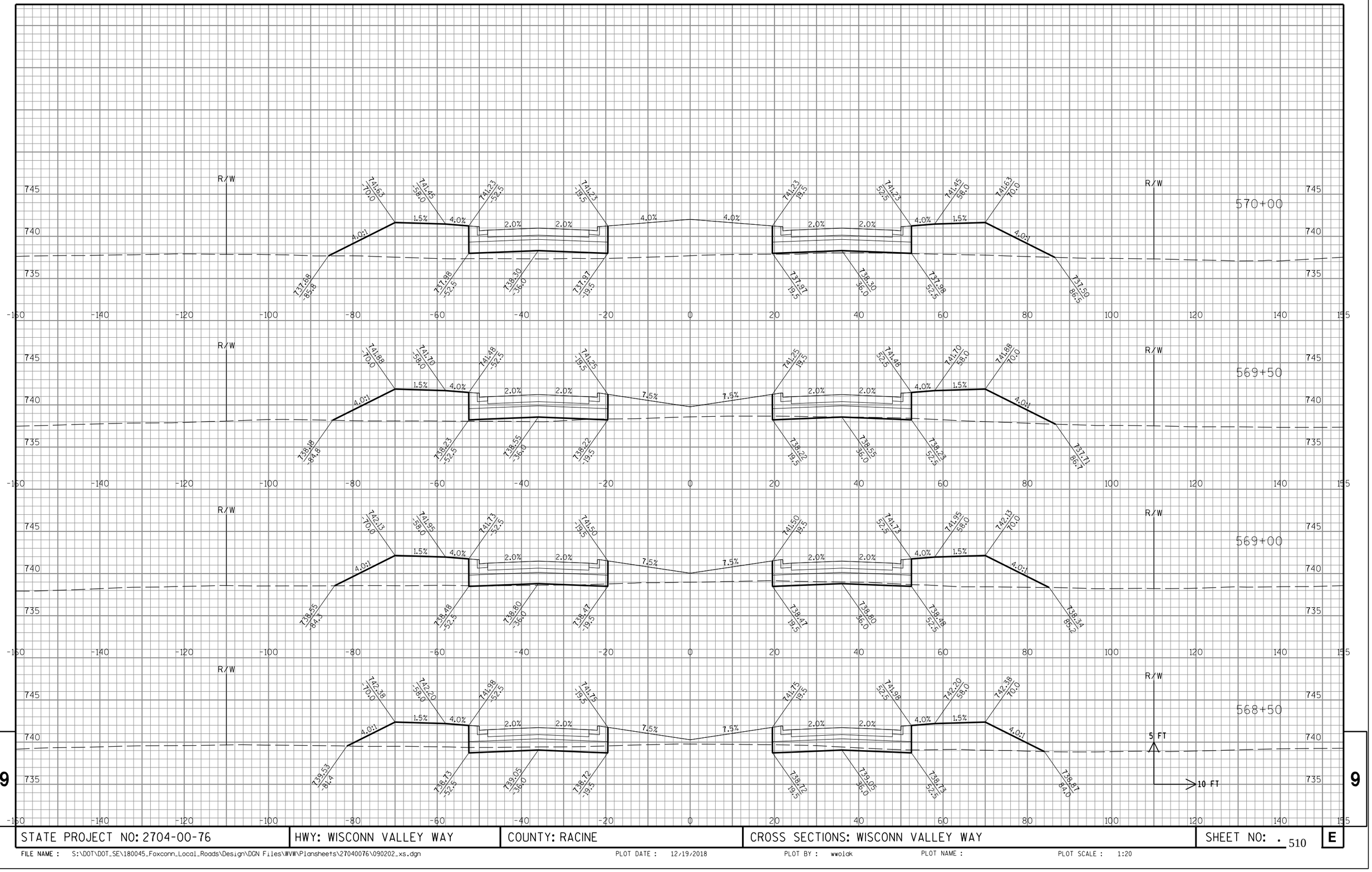
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STATE PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: WISCONN VALLEY WAY	SHEET NO: 509	E

FILE NAME : S:\DOT\DOT_SE\180045_Foxconn_Local_Roads\Design\DGN Files\WVW\Plansheets\27040076\090202_xs.dgn PLOT DATE : 12/19/2018 PLOT BY : wwolck PLOT NAME : PLOT SCALE : 1:20

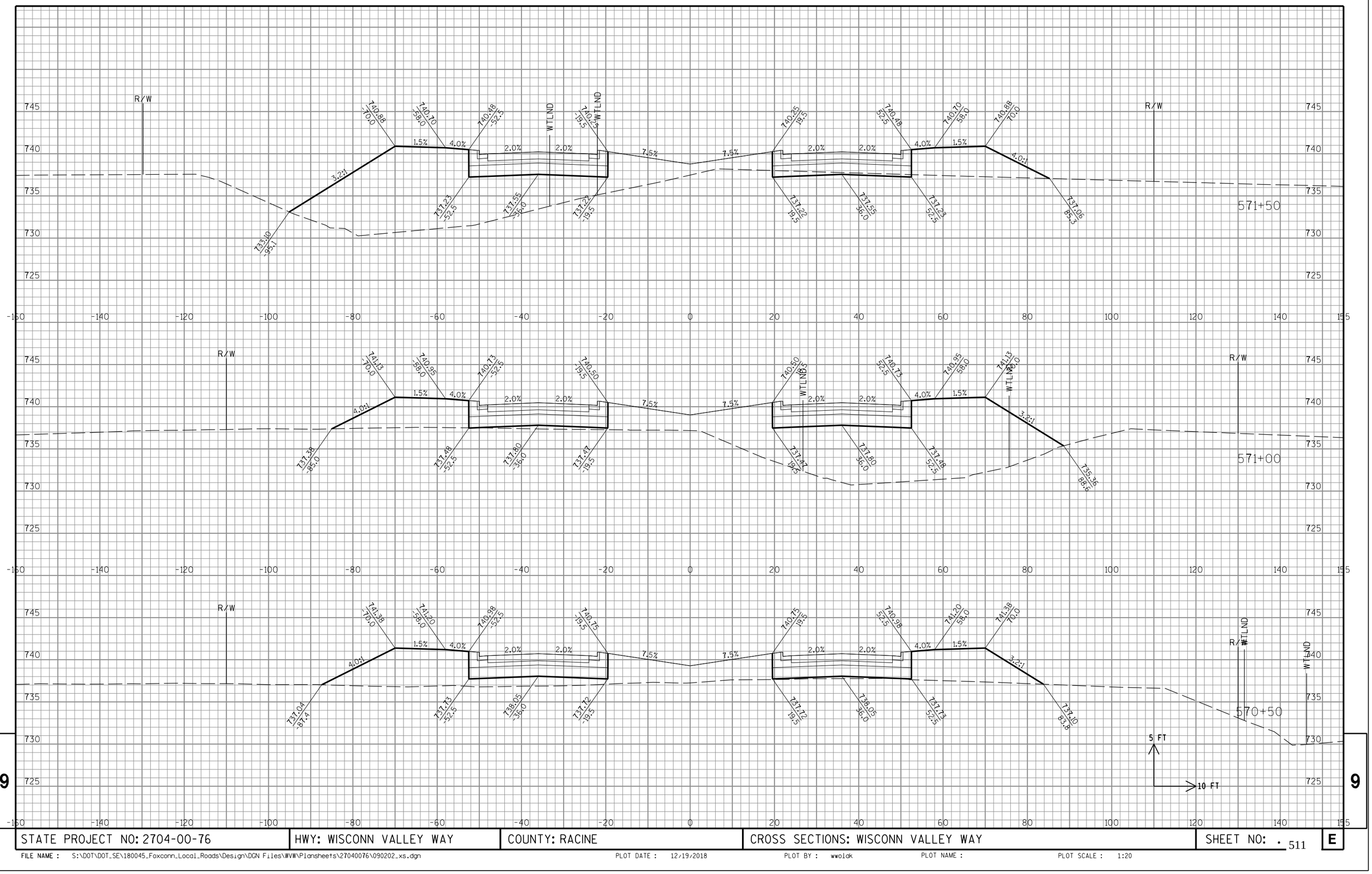


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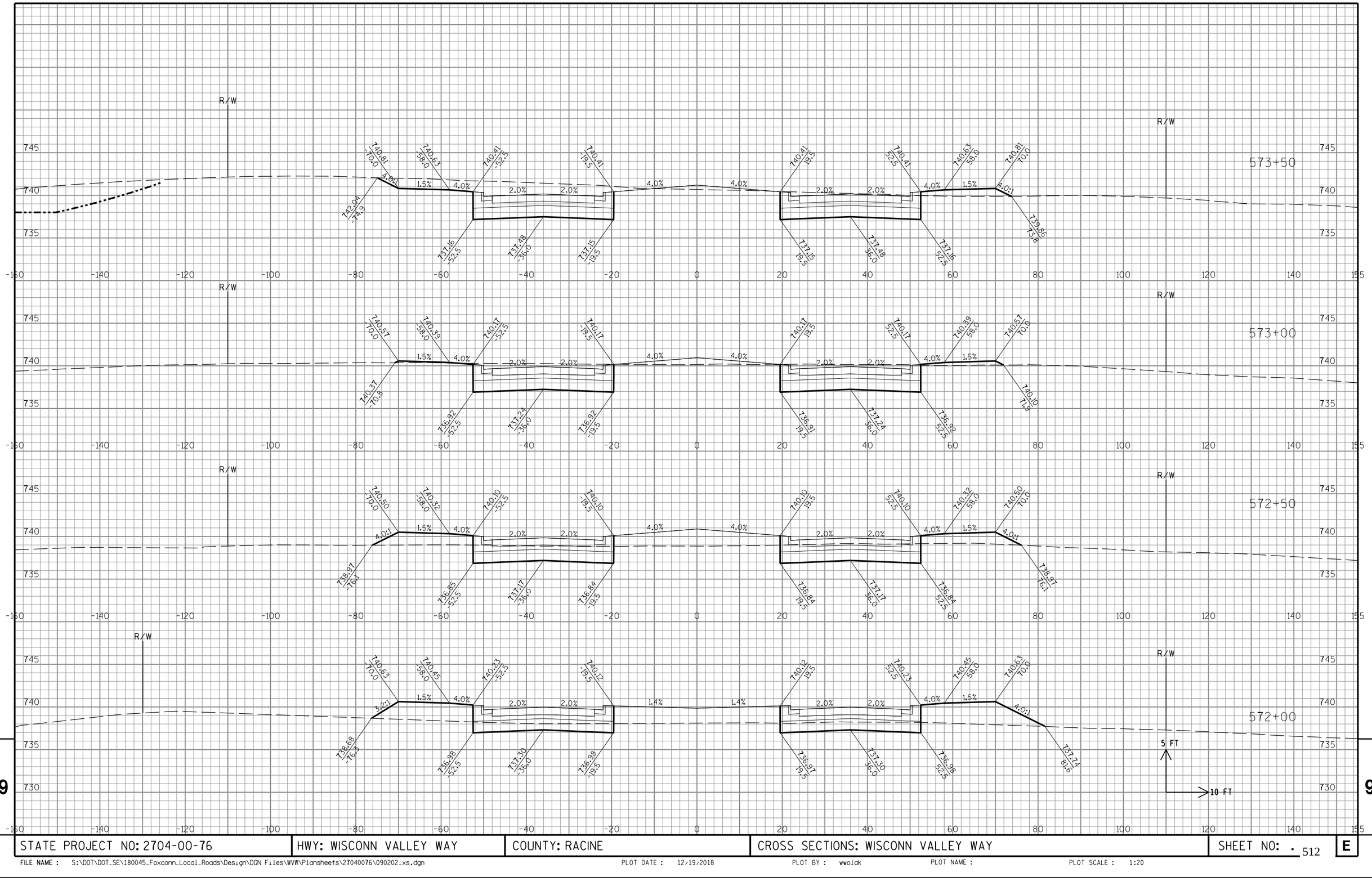
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STATE PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: WISCONN VALLEY WAY	SHEET NO: . 511	E

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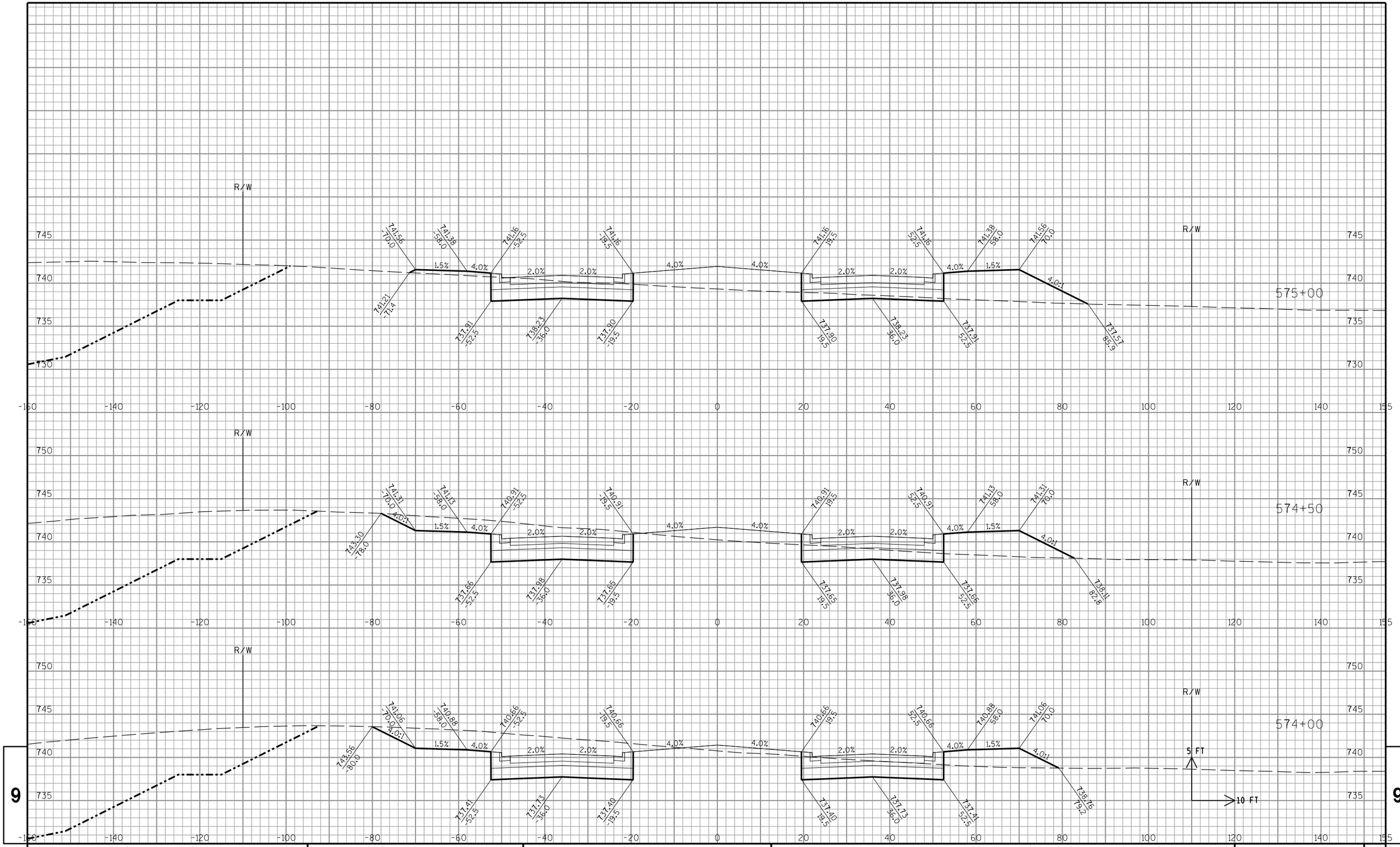


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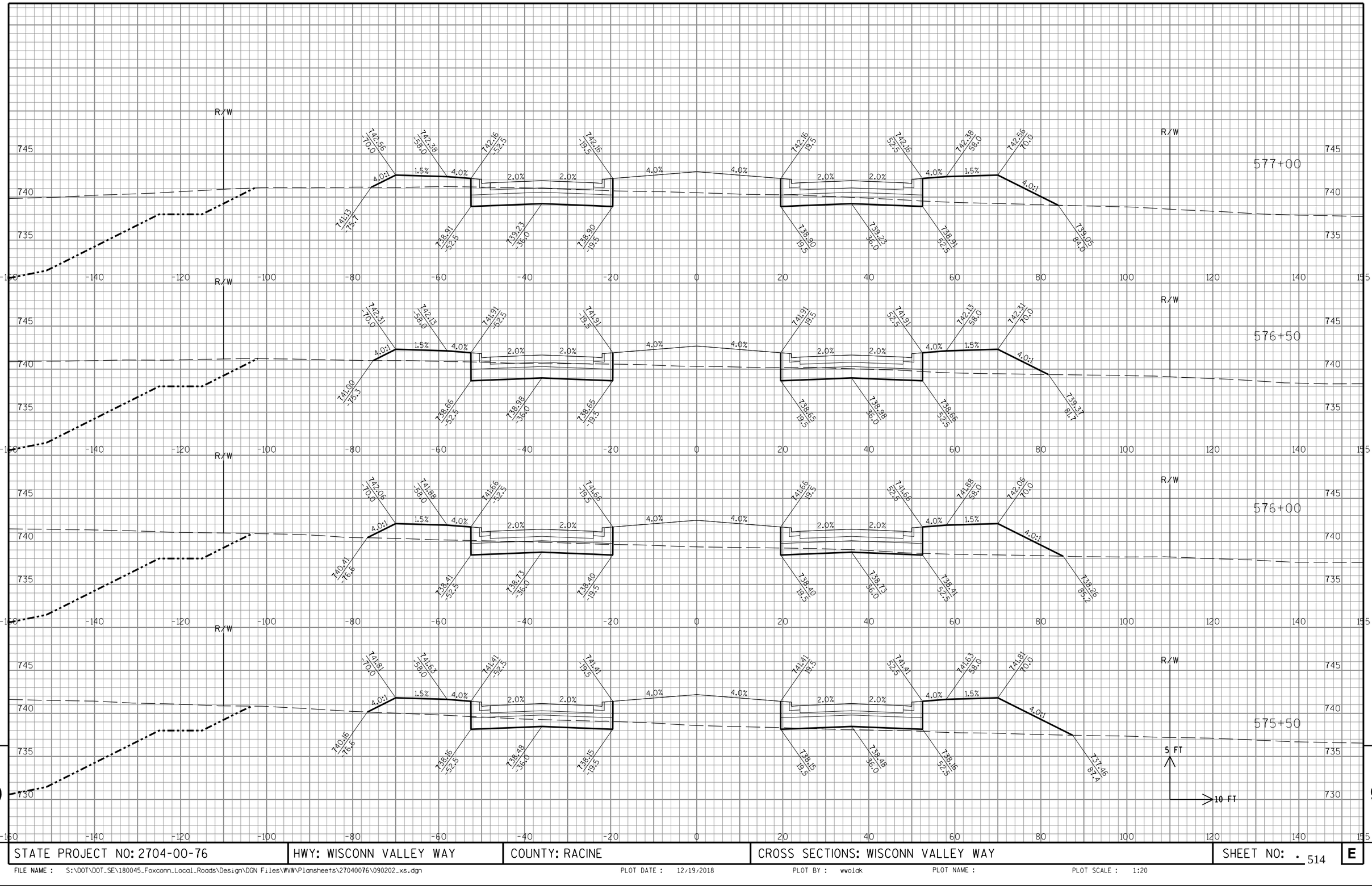
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STATE PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: WISCONN VALLEY WAY	SHEET NO: 513	E

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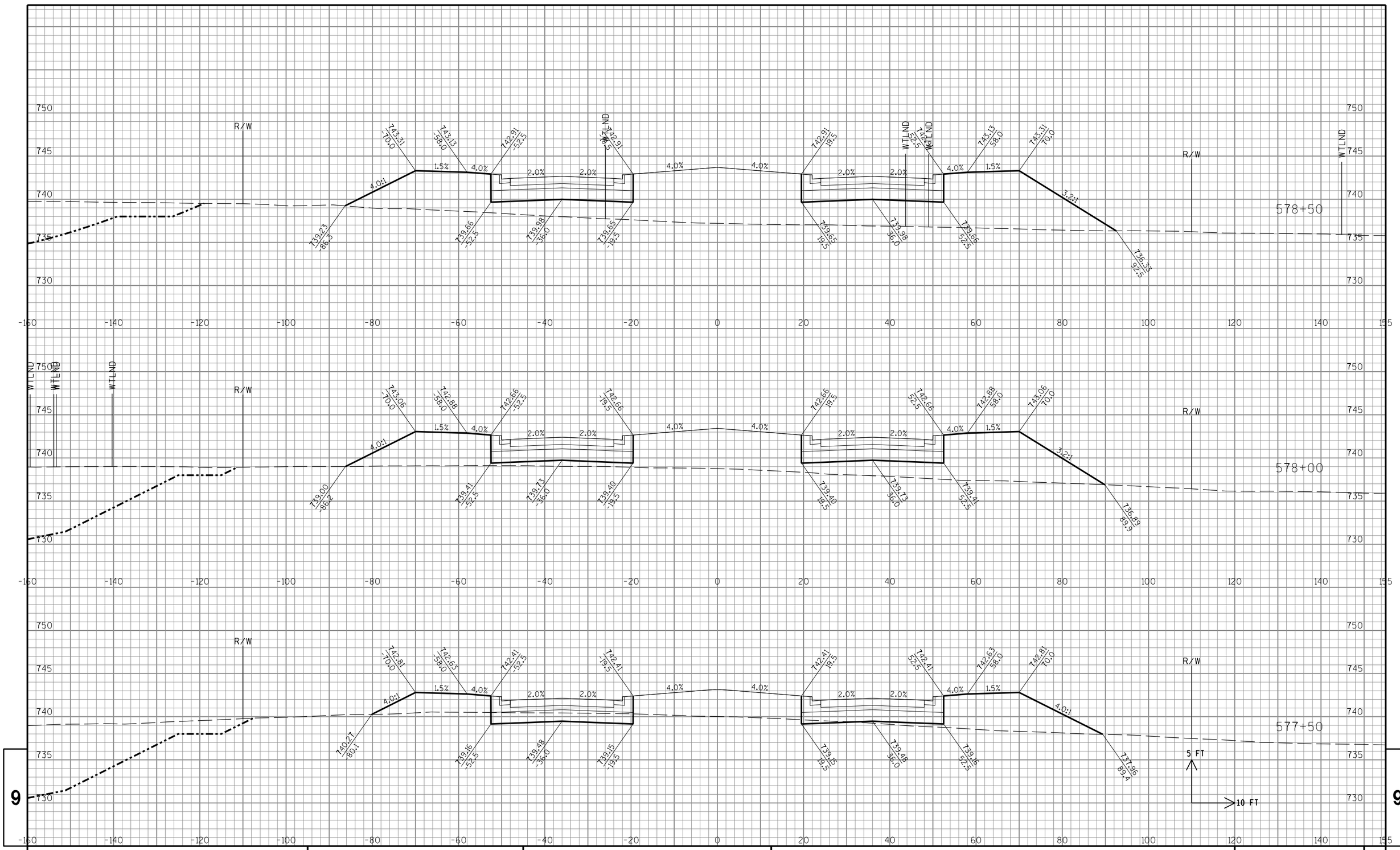


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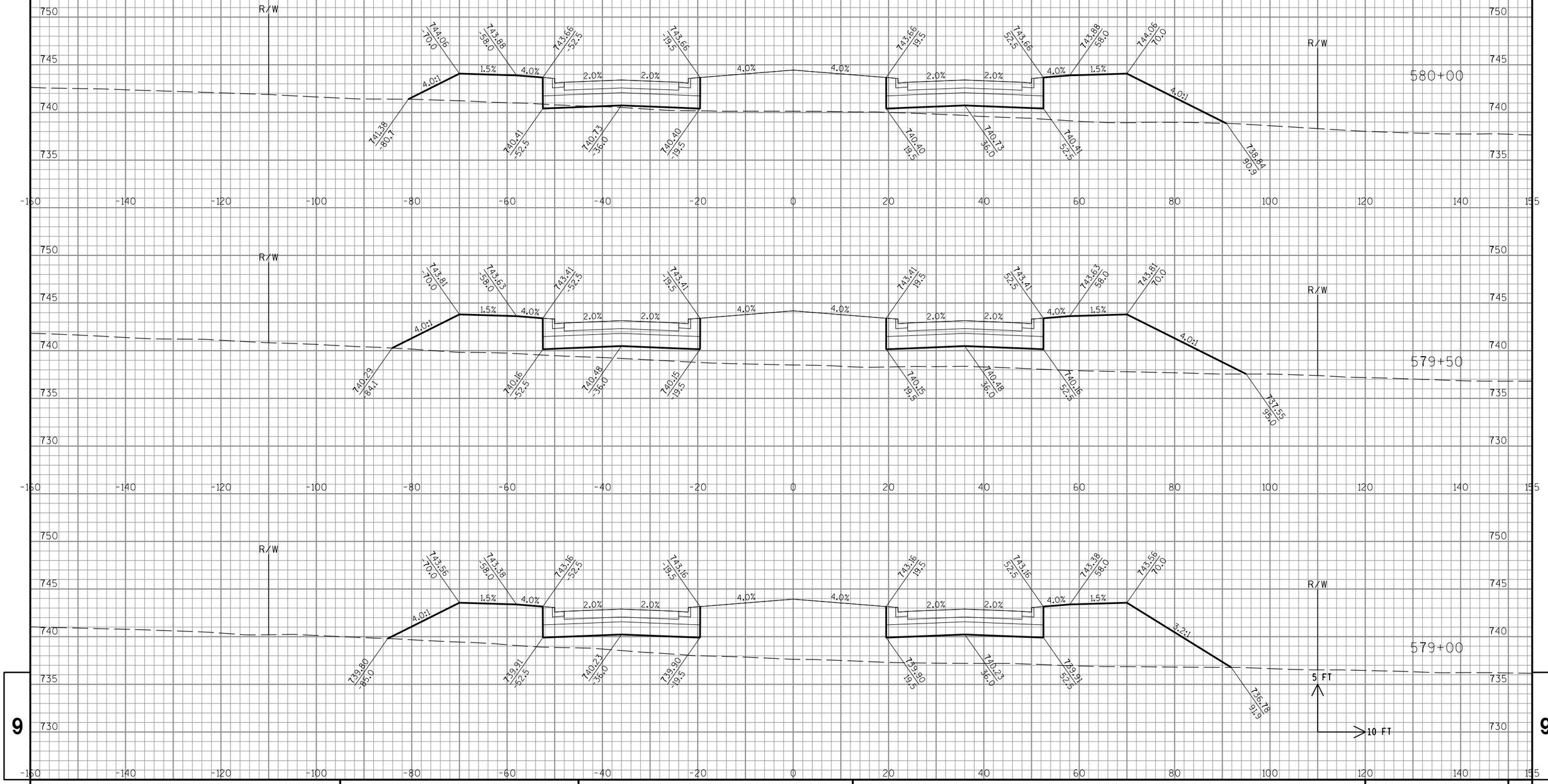


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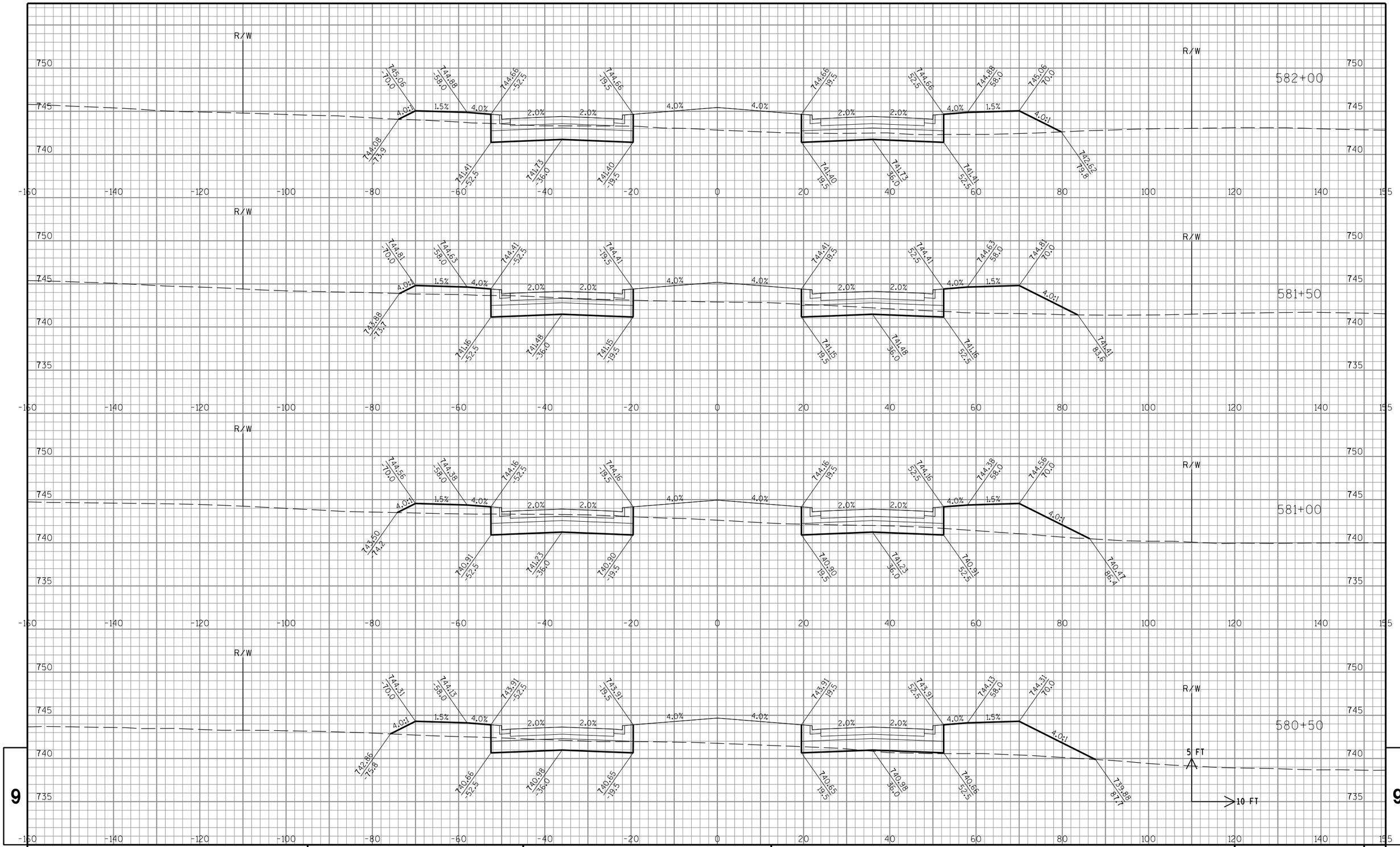
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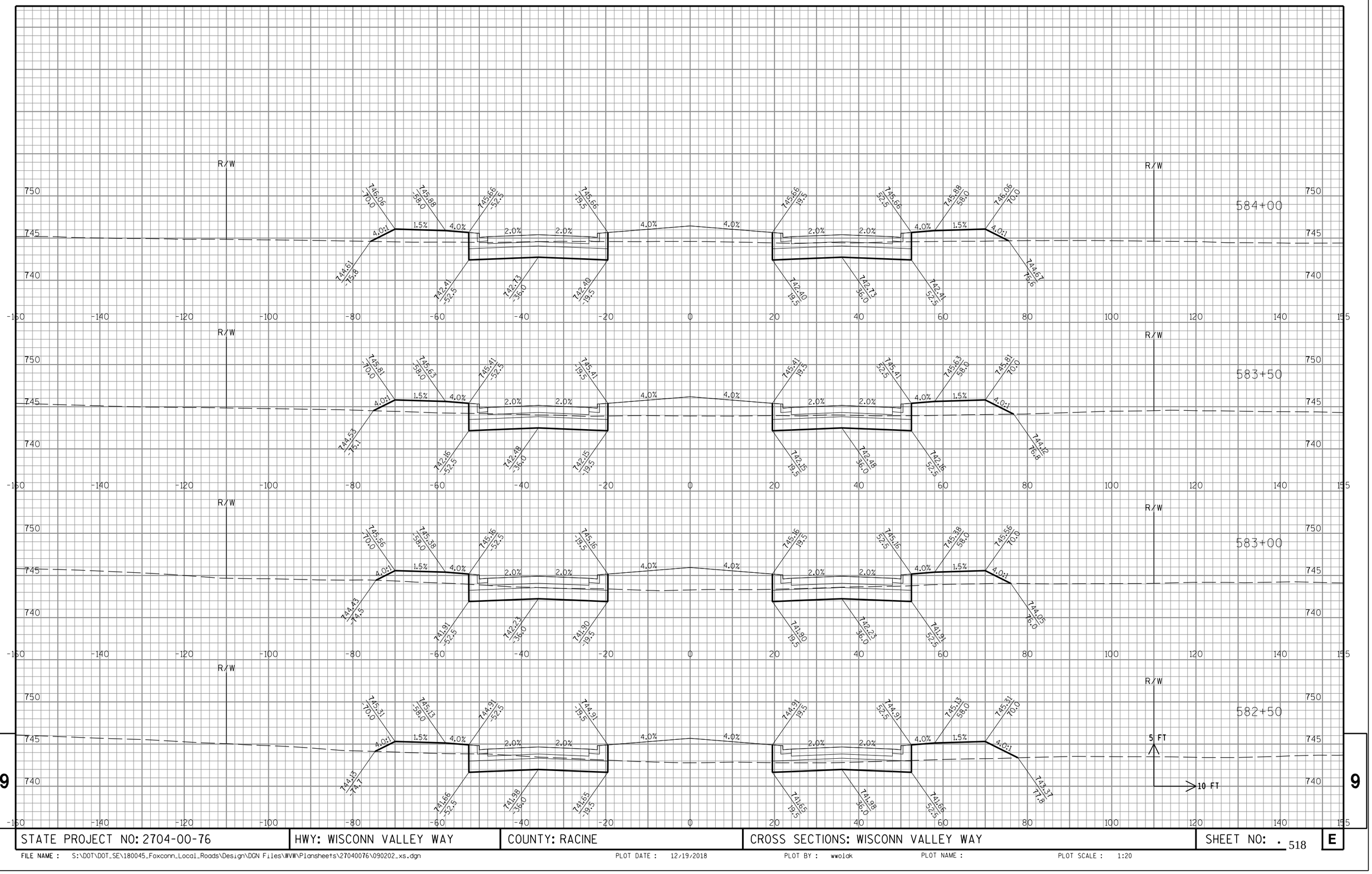
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STATE PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: WISCONN VALLEY WAY	SHEET NO: . 517	E

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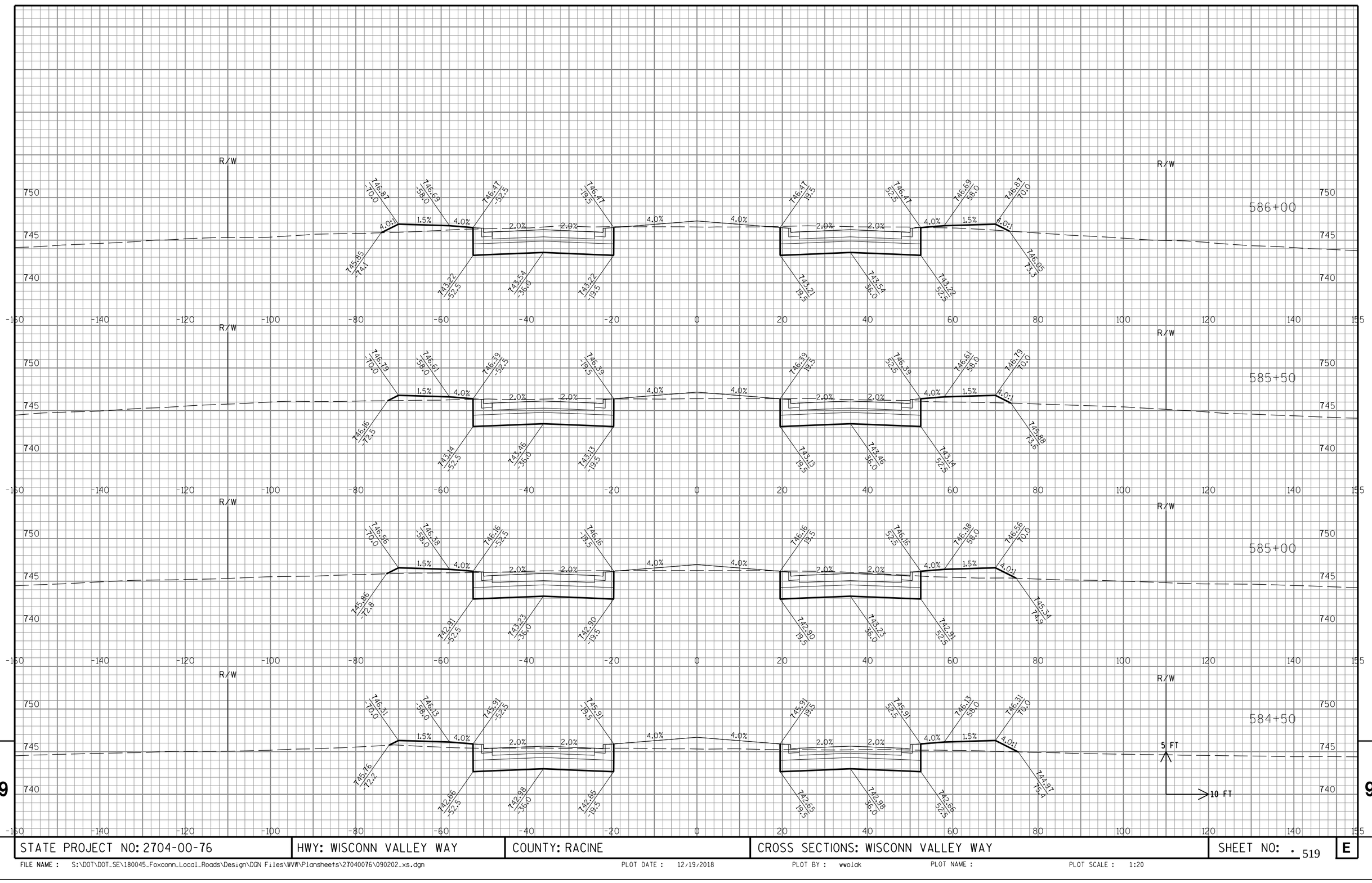


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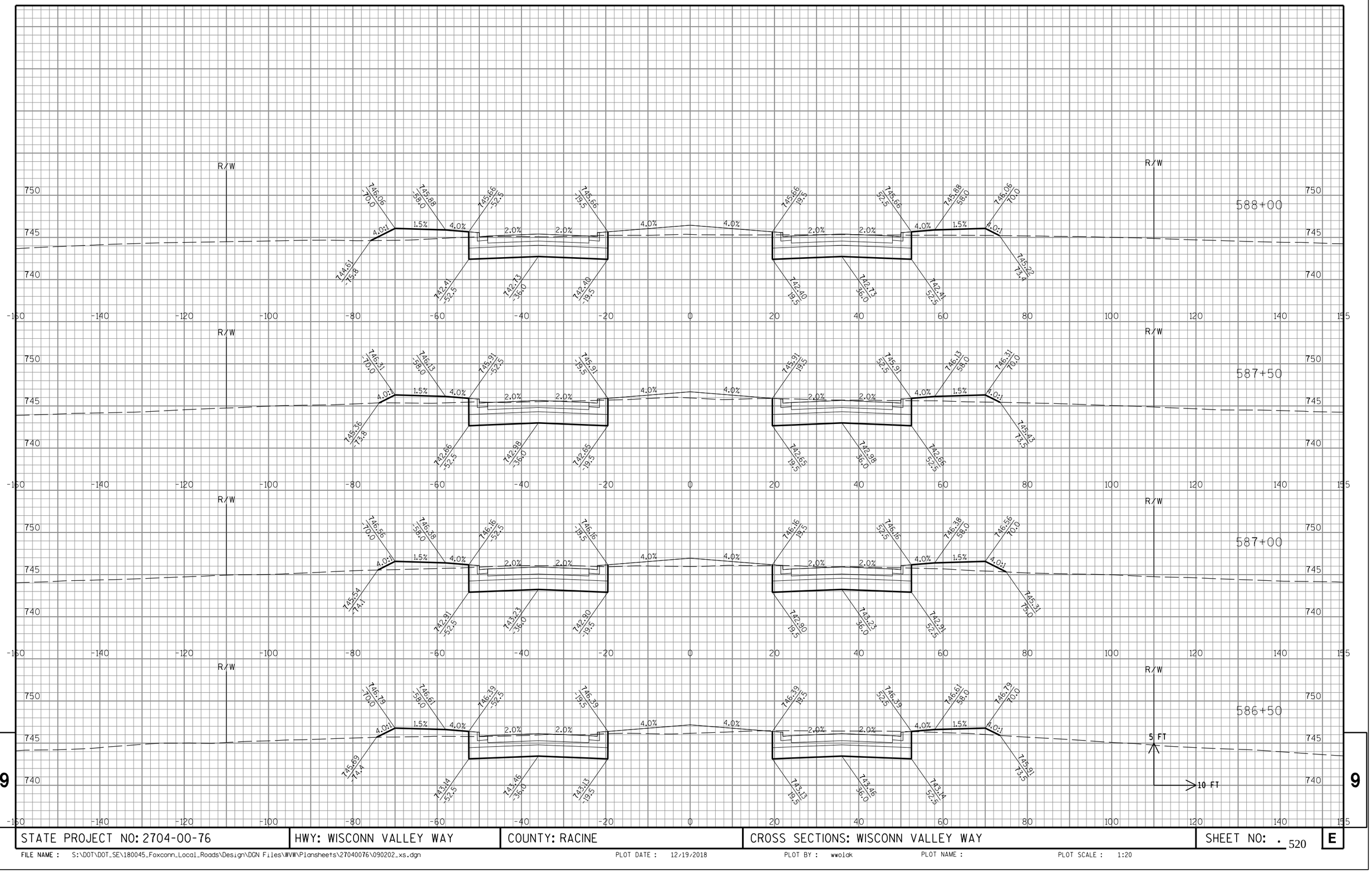


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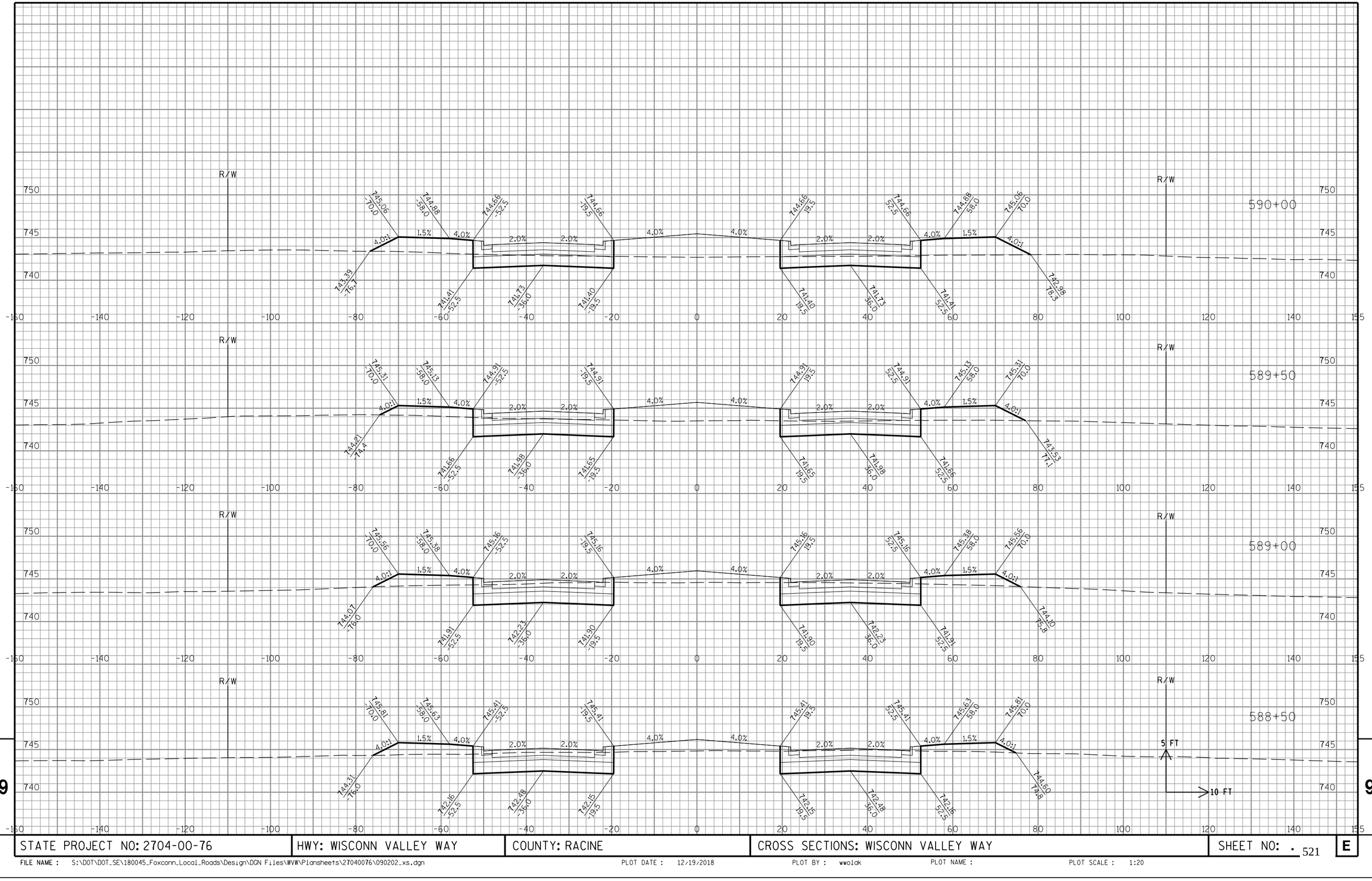


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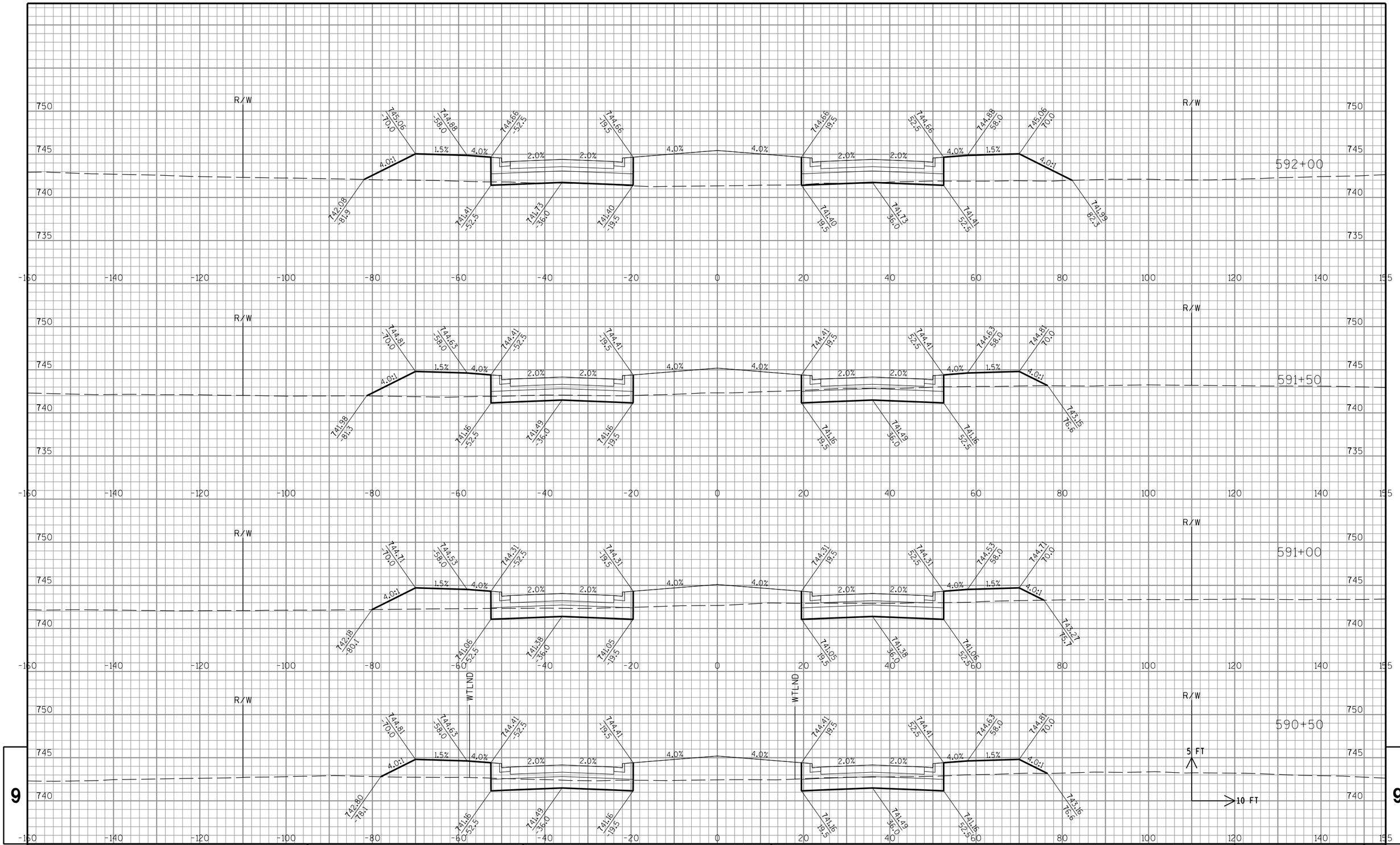


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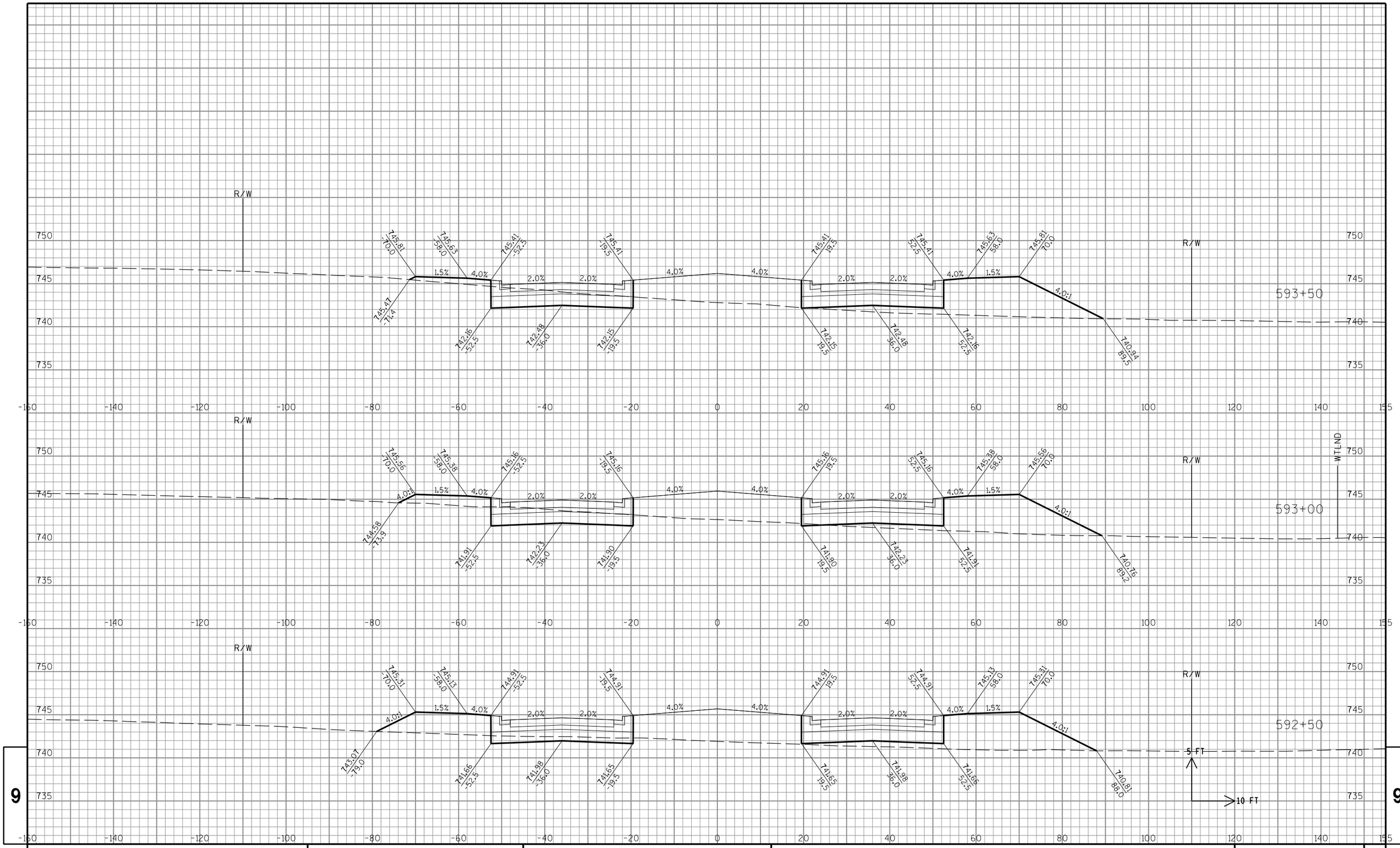


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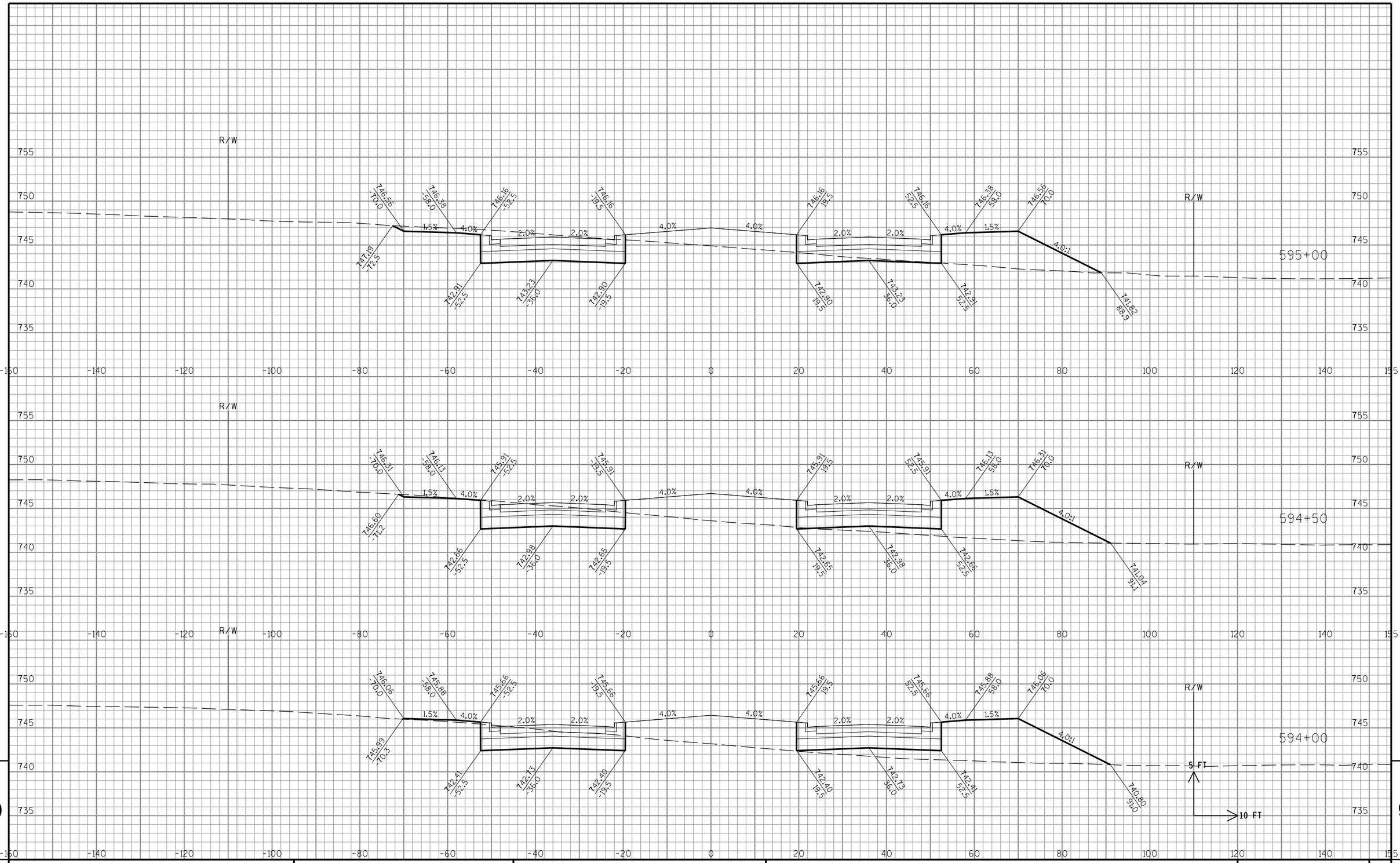
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STATE PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: WISCONN VALLEY WAY	SHEET NO: . 523	E

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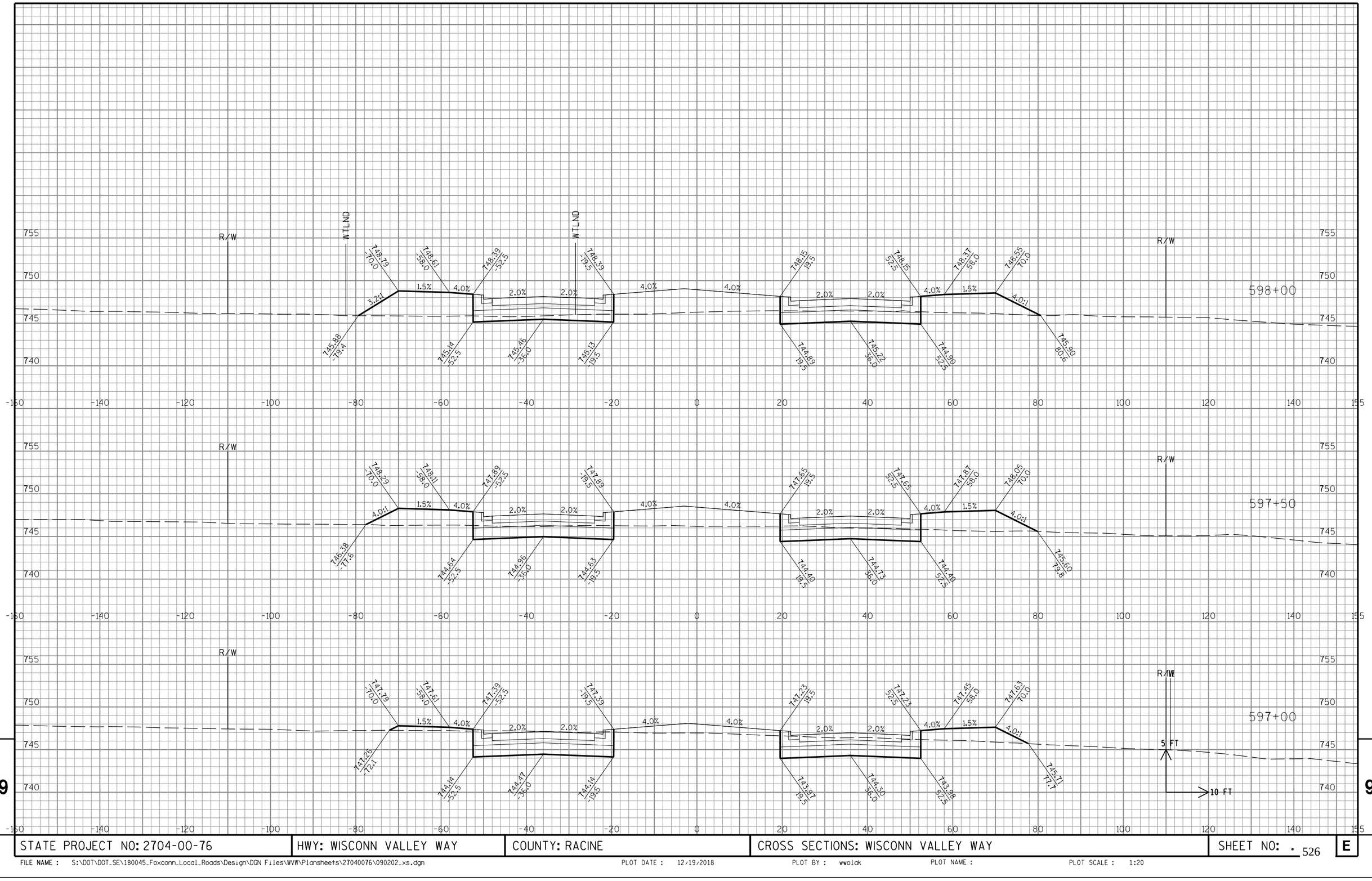


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STATE PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: WISCONN VALLEY WAY	SHEET NO: . 525	E

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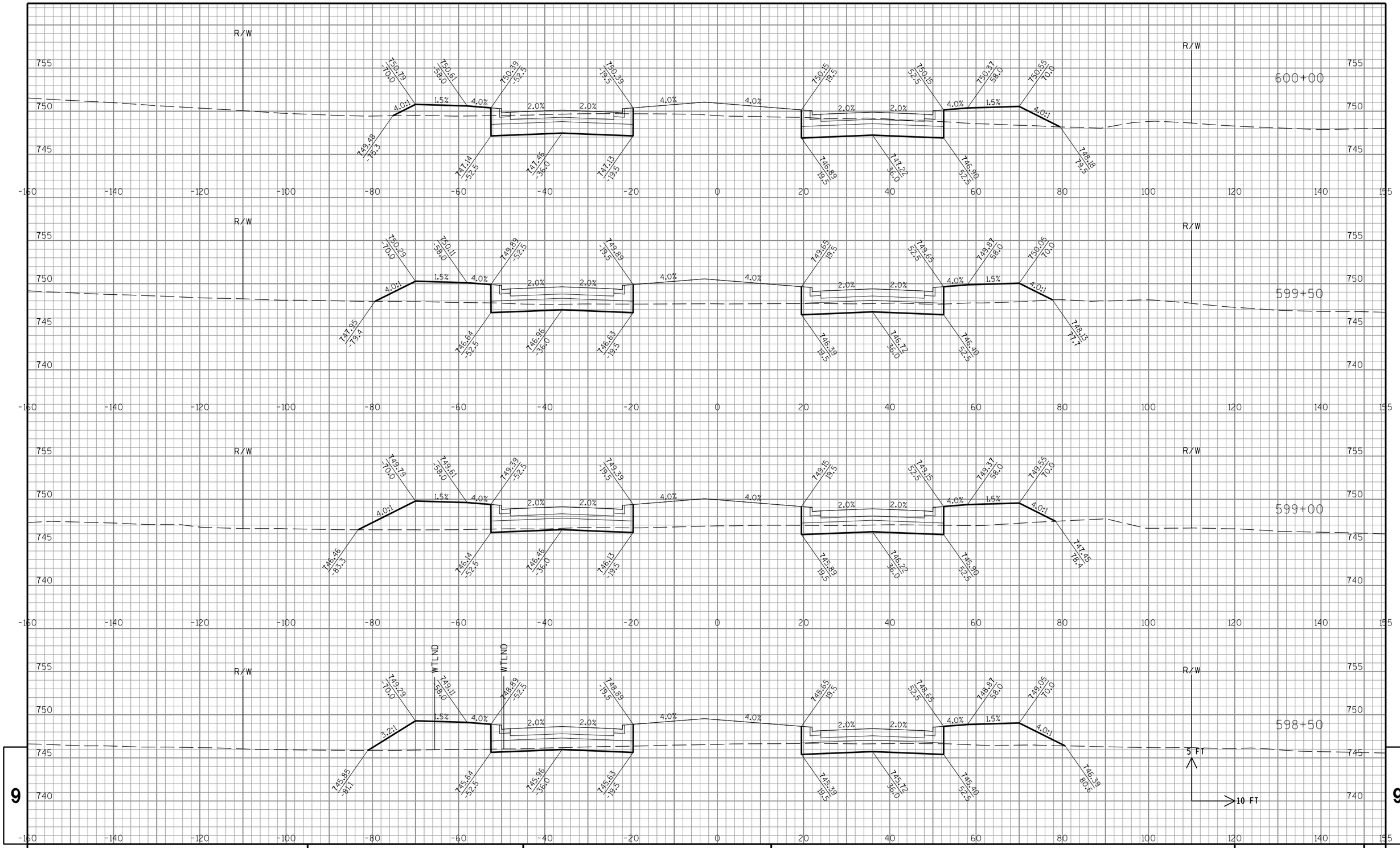


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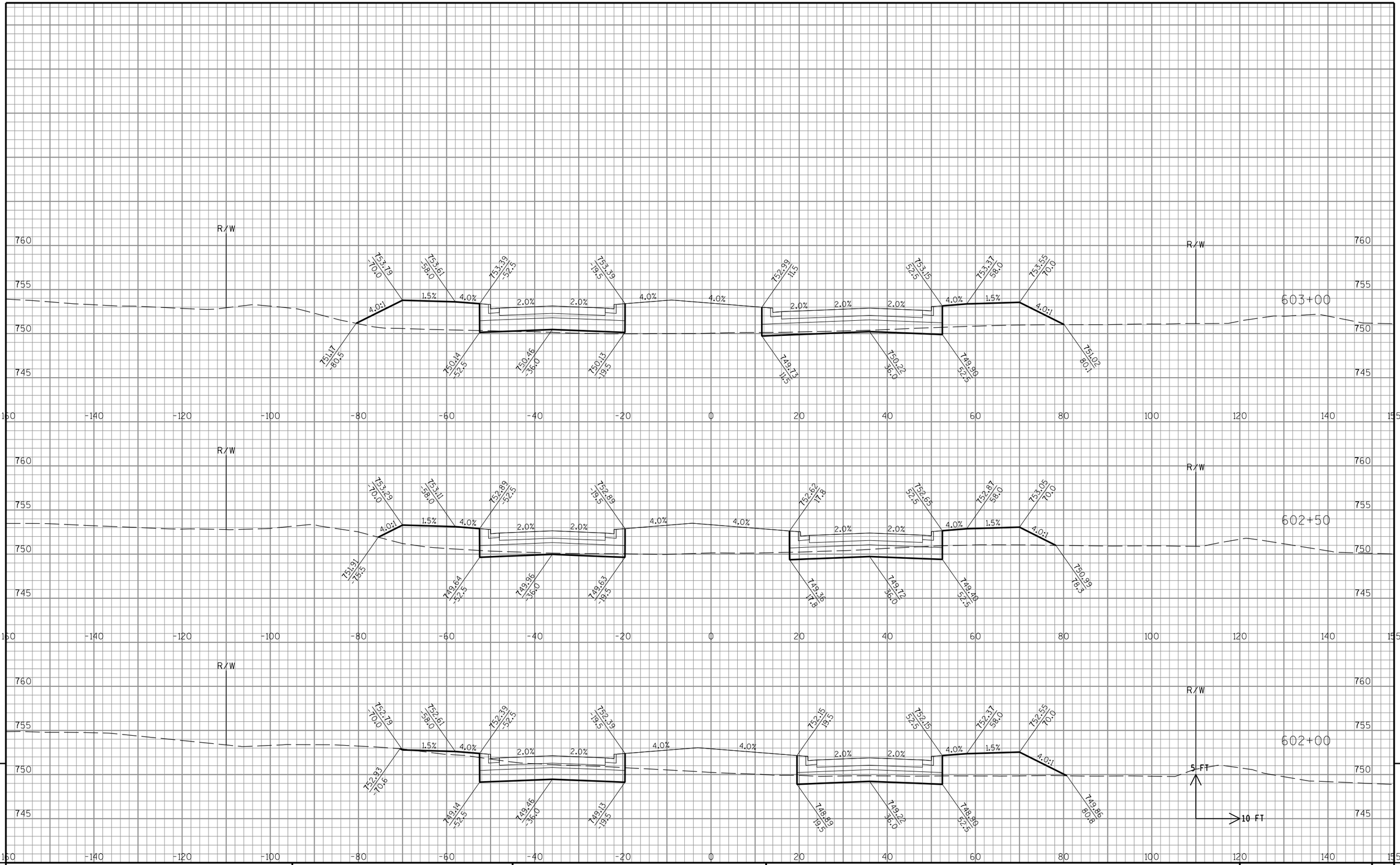
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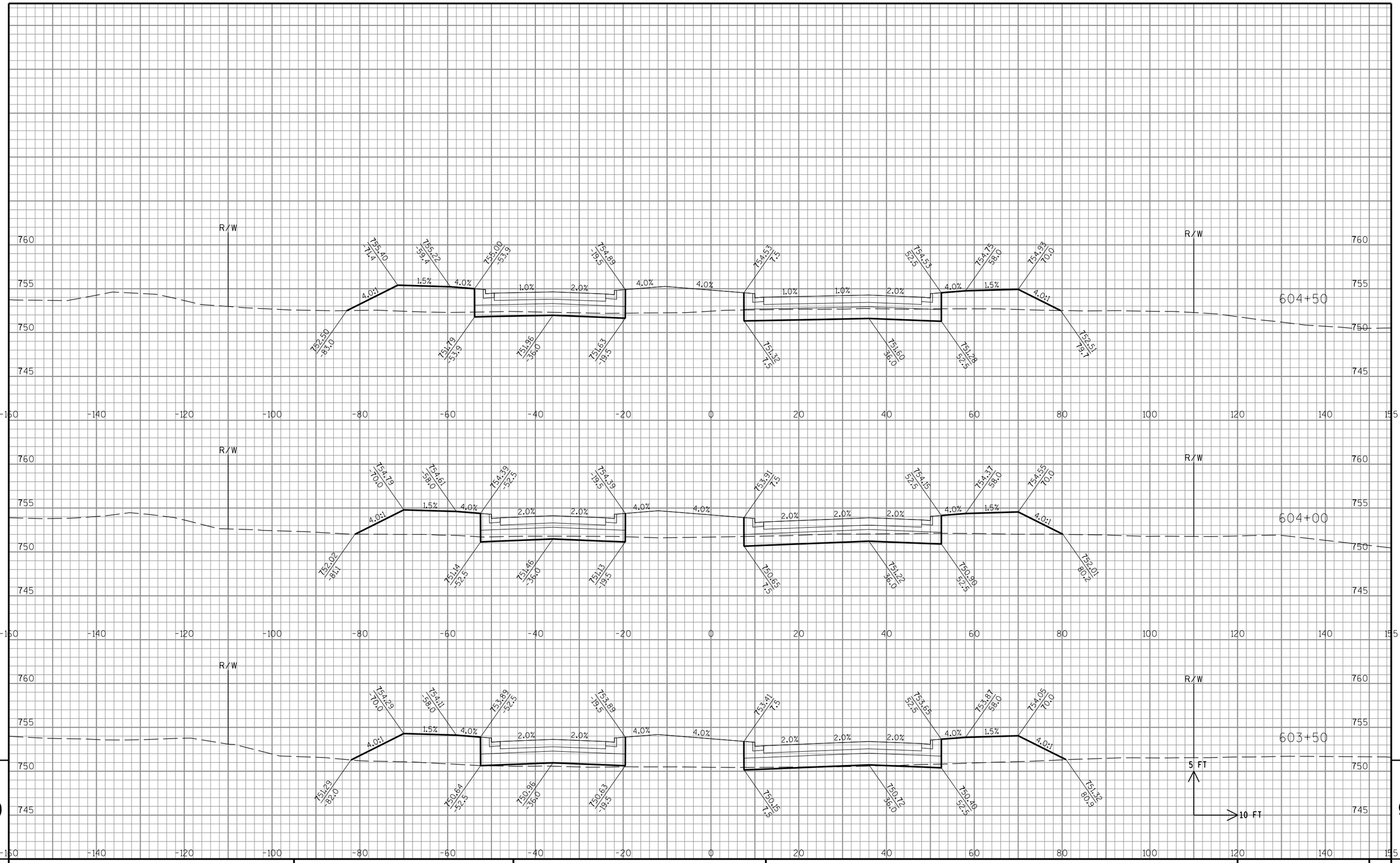
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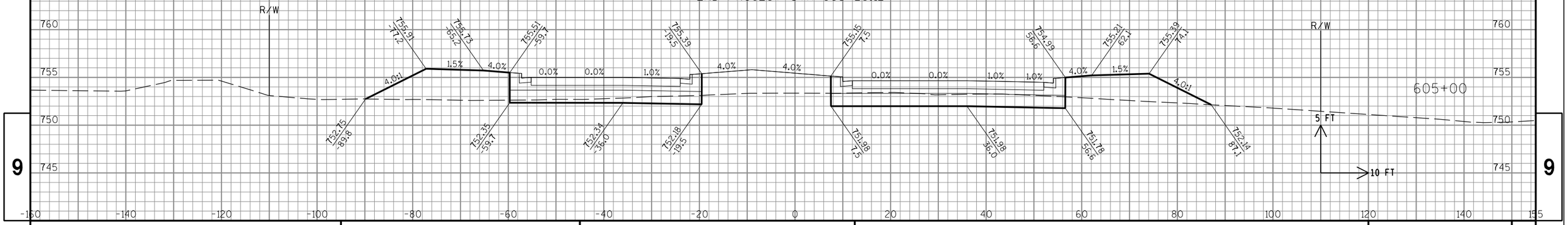
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STATE PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: WISCONN VALLEY WAY	SHEET NO: 529	E

END PROJECT STA 605+29.12

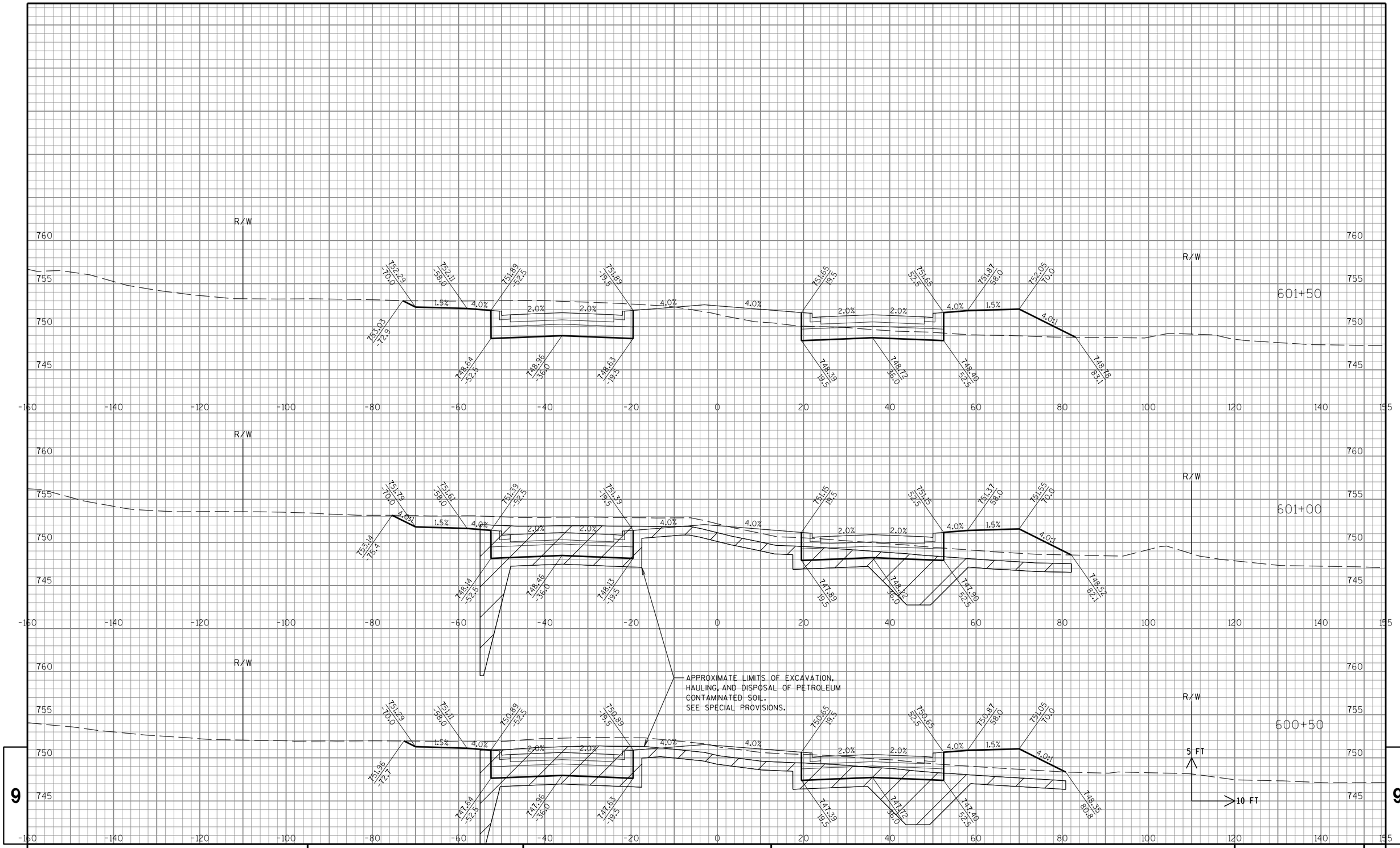


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STATE PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: WISCONN VALLEY WAY	SHEET NO: . 530	E

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STATE PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: WISCONN VALLEY WAY	SHEET NO: . 531	E

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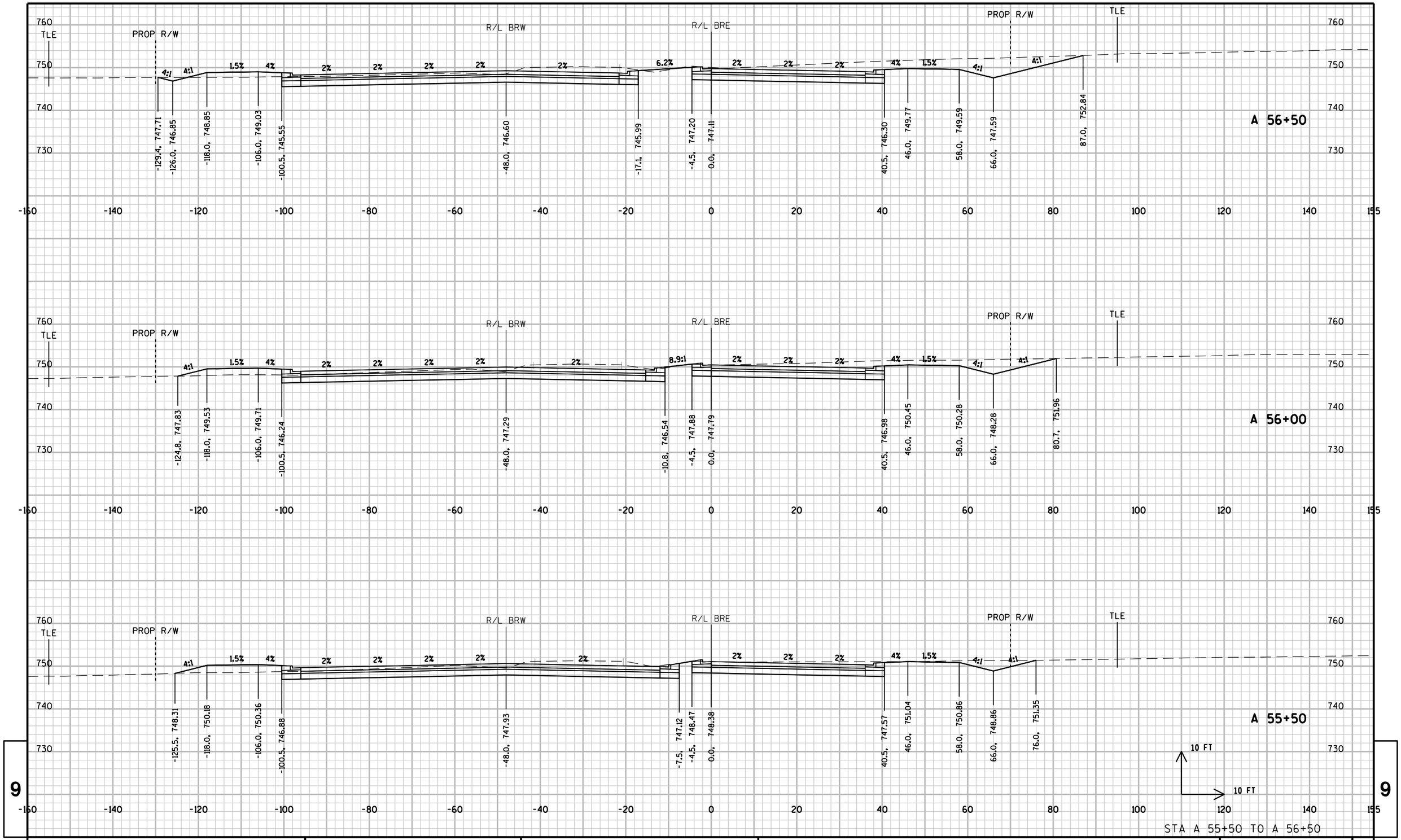


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PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET	E

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WISDOT/CADDS SHEET 21



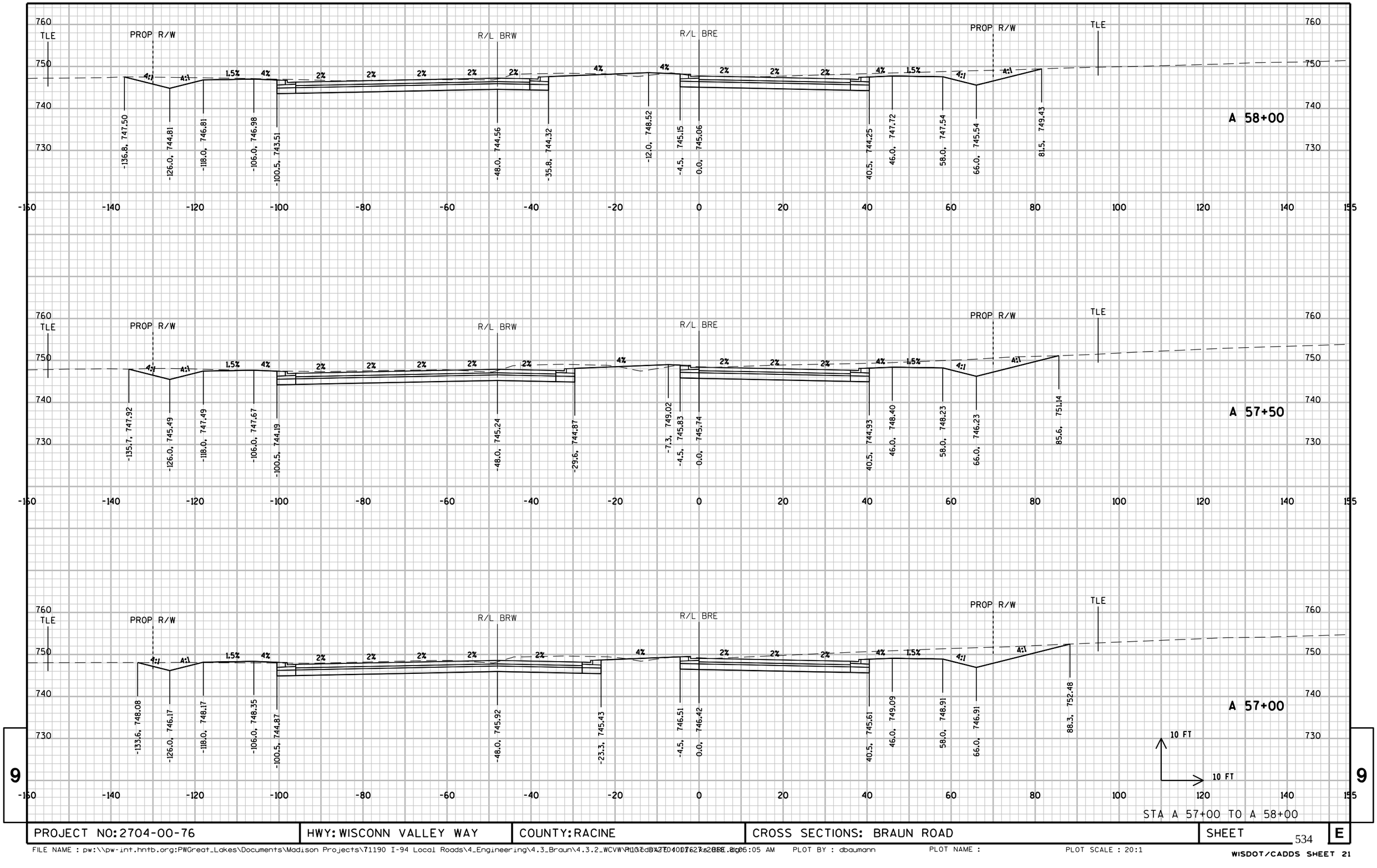
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STA A 55+50 TO A 56+50

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



9

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STA A 57+00 TO A 58+00

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 534	E

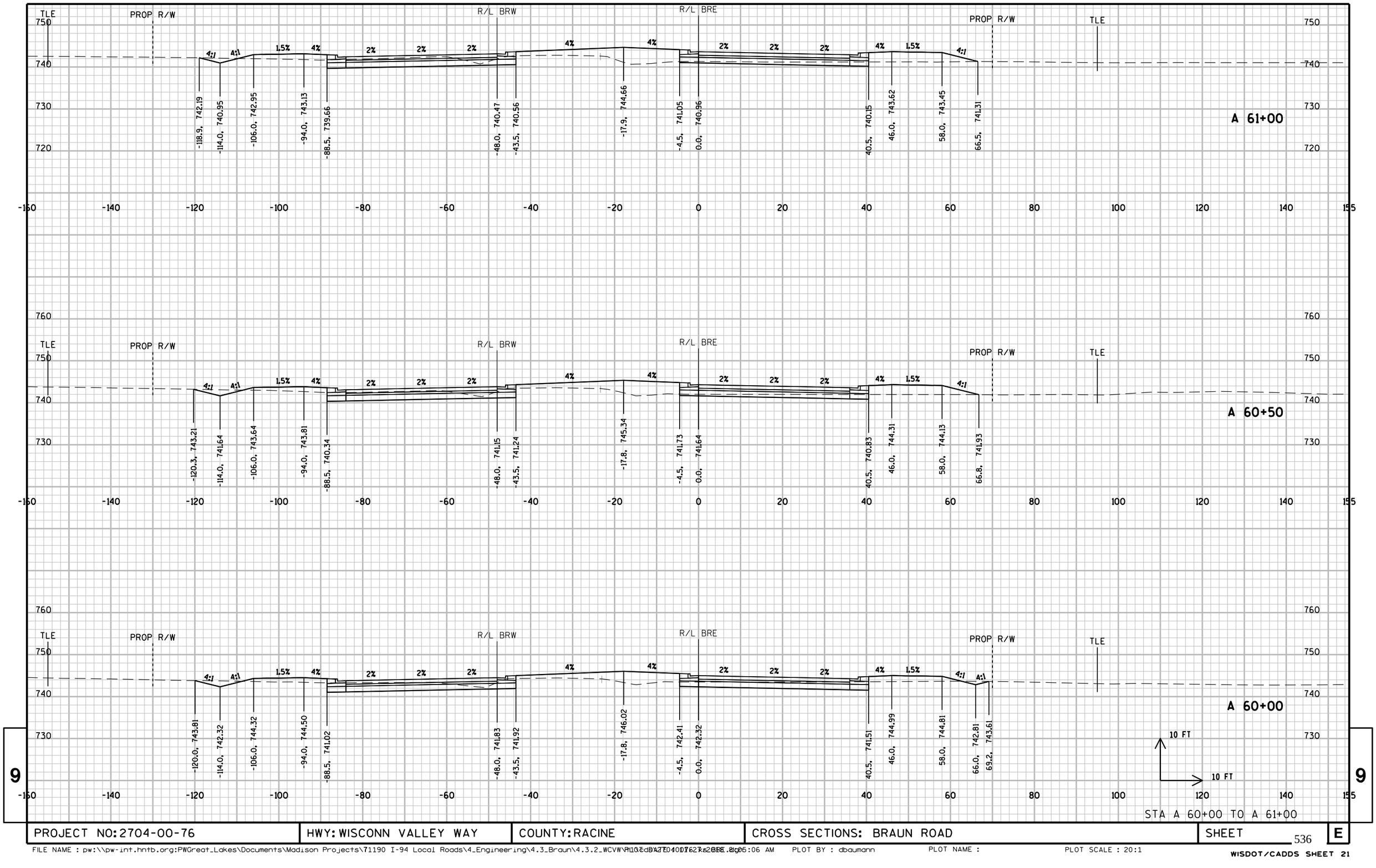


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STA A 58+50 TO A 59+50

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 535	E



9

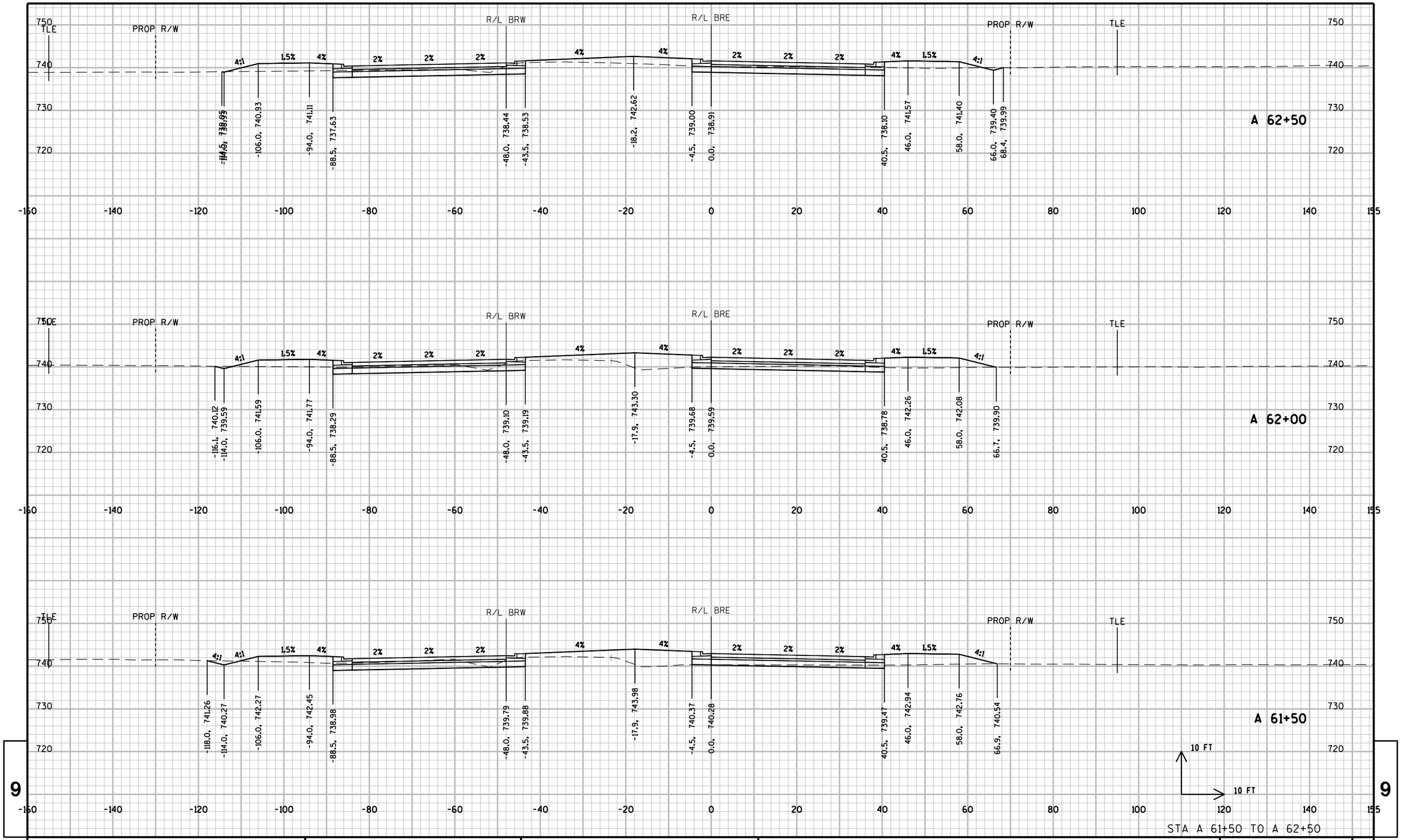
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PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 536	E

STA A 60+00 TO A 61+00

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WISDOT/CADDS SHEET 21

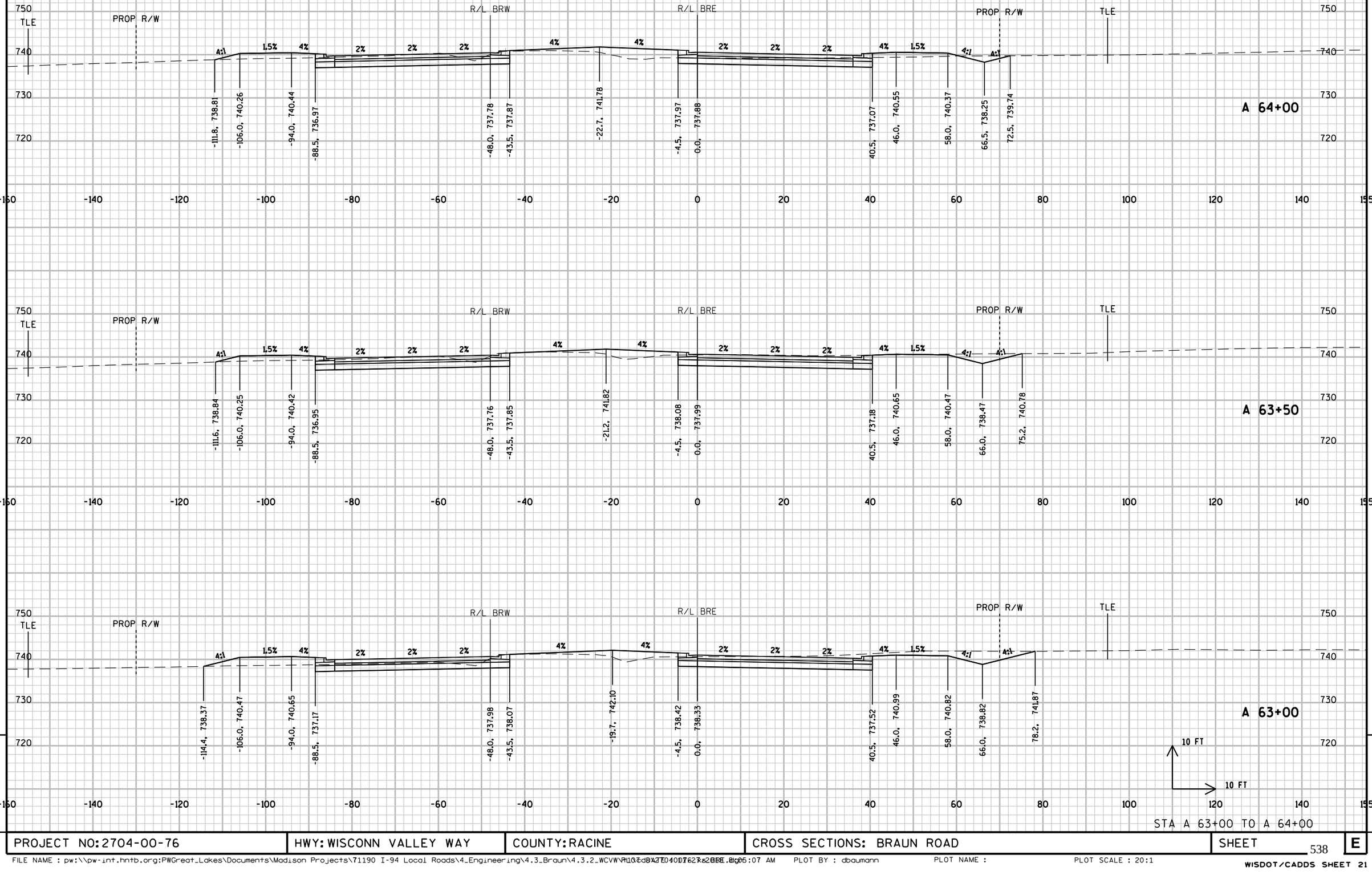


STA A 61+50 TO A 62+50

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 537	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\Plots\2704017627x2BRE.dgn 8:05:06 AM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

9

STA A 63+00 TO A 64+00

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PH1\cdsXSTE0401762s2BRE.dgn 05:07 AM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



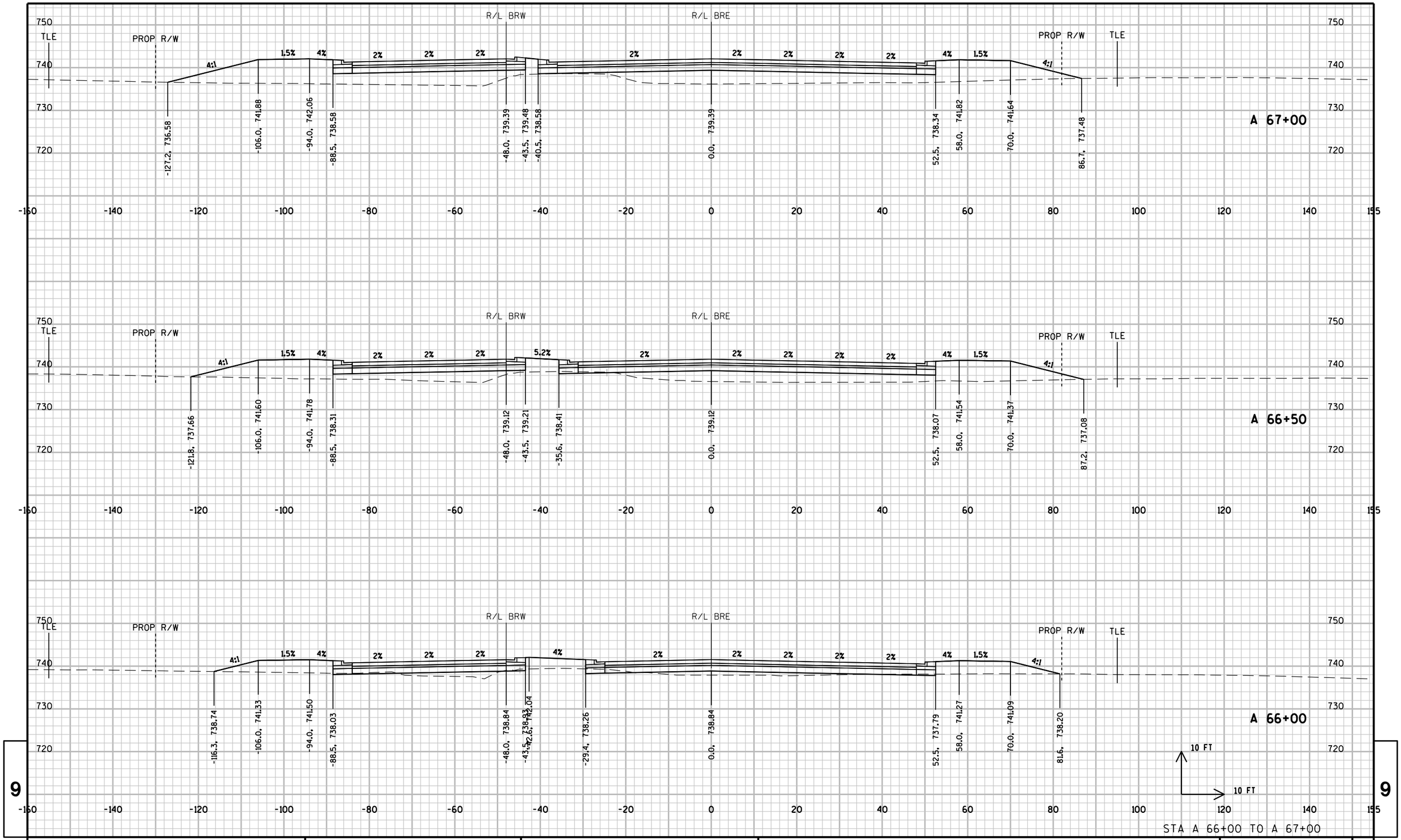
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STA A 64+50 TO A 65+50

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PH10\dgn\27040176278.dgn 8:05:07 AM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



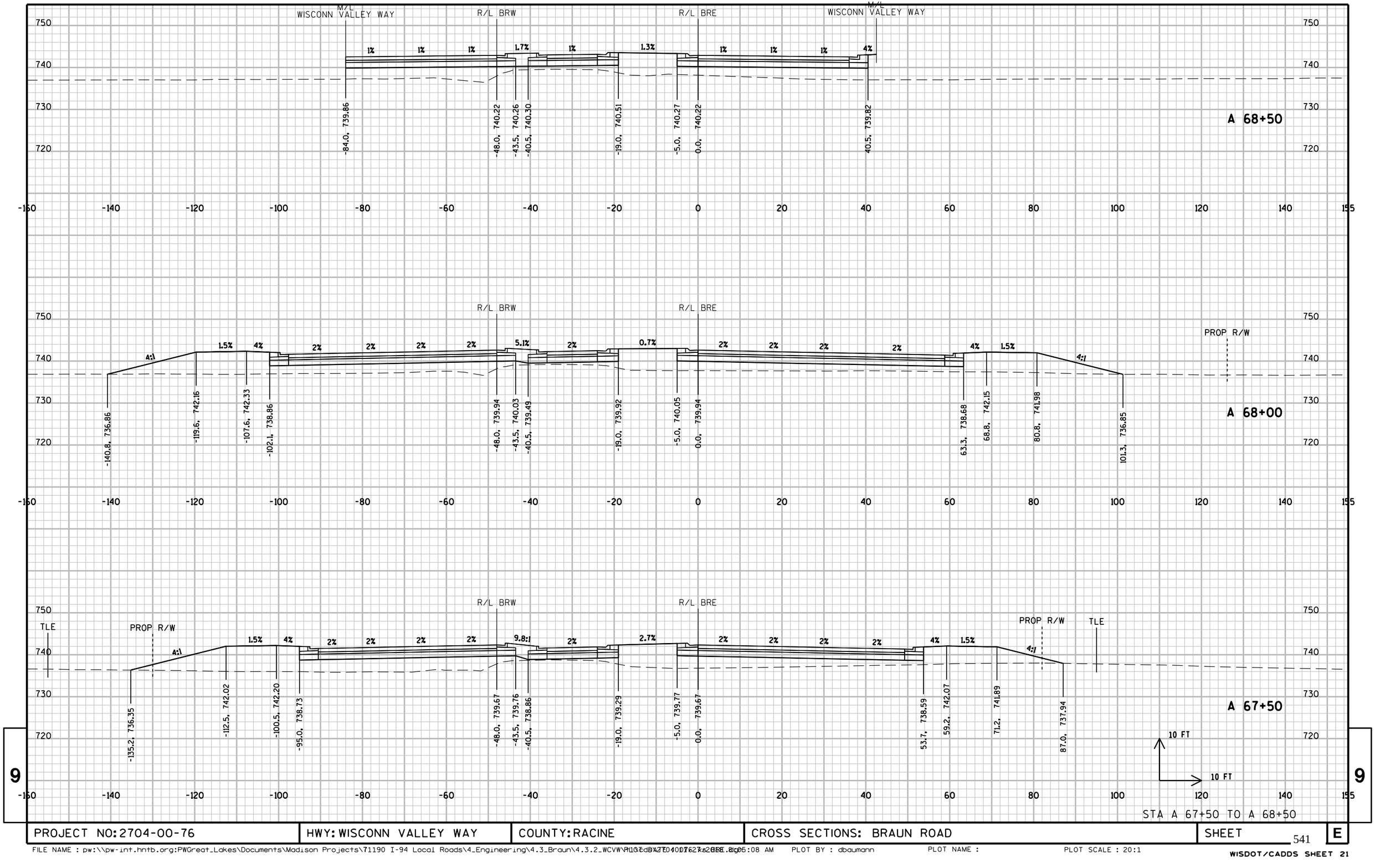
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STA A 66+00 TO A 67+00

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PLOT DATE : 04/07/2023 8:05:08 AM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21

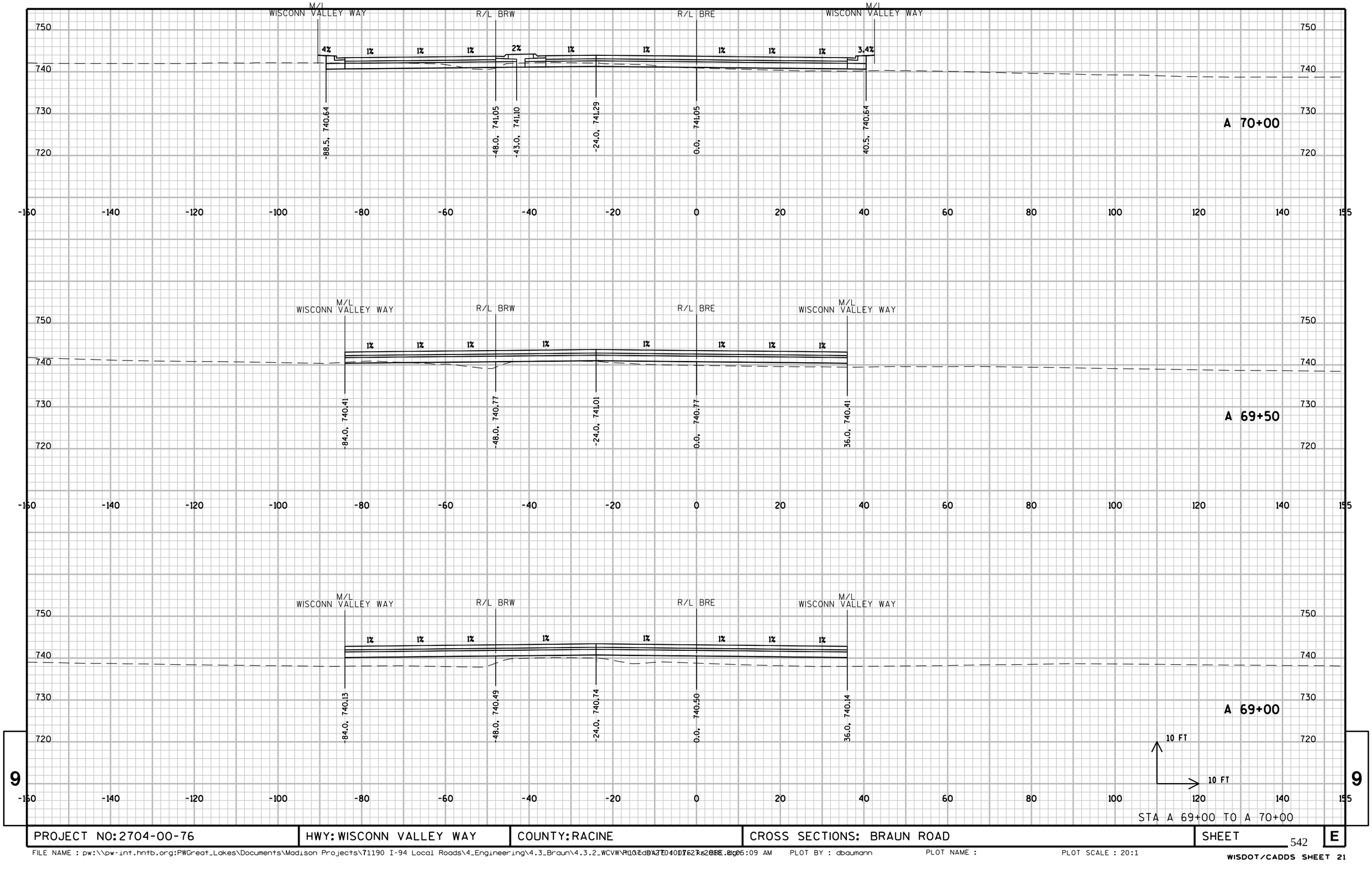


STA A 67+50 TO A 68+50

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 541	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PLOTDATA\041762x2688.dgn 05:08 AM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

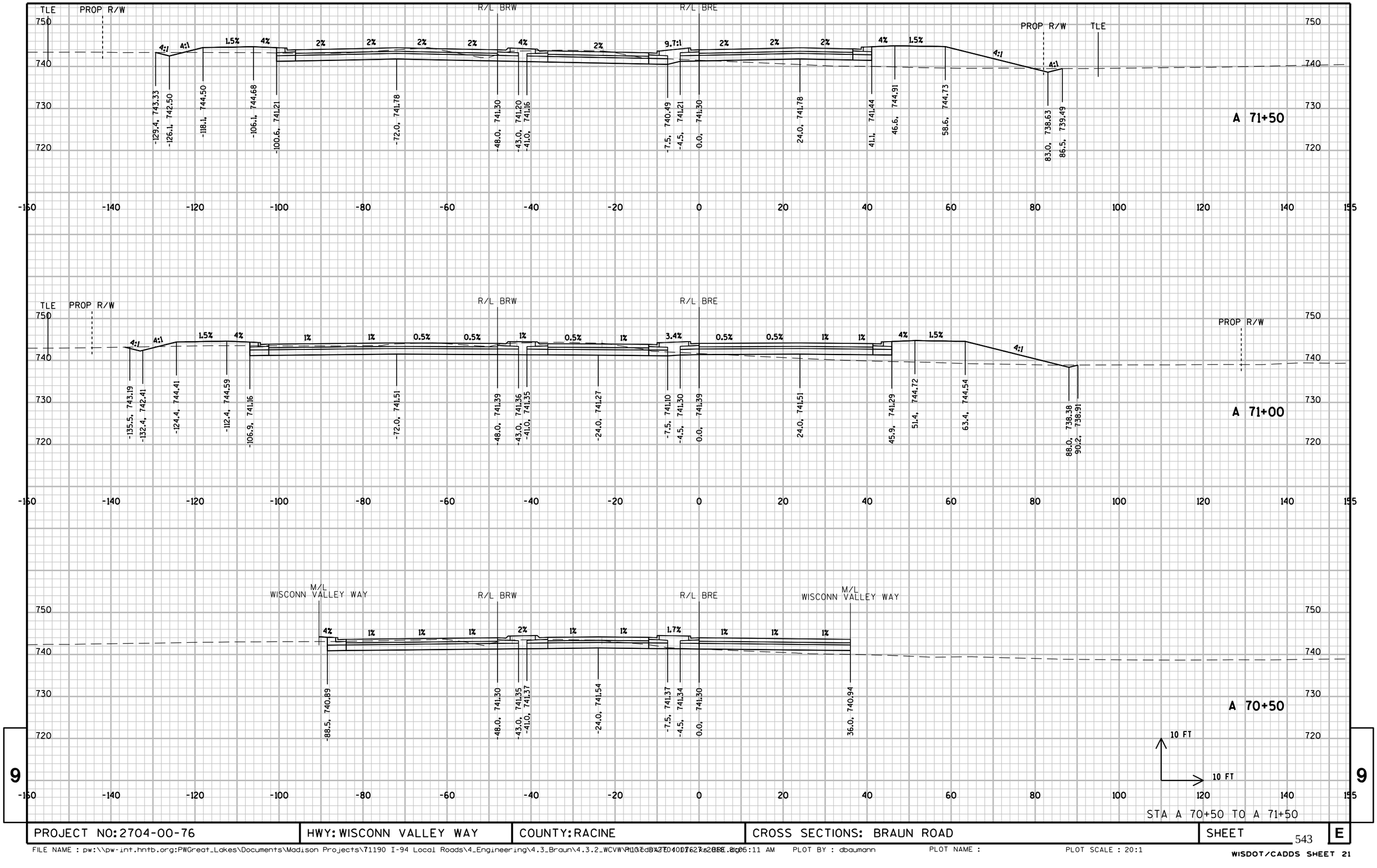
9

STA A 69+00 TO A 70+00

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\Plots\BRAUN_ROAD_CROSS_SECTIONS.dgn 10:09 AM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

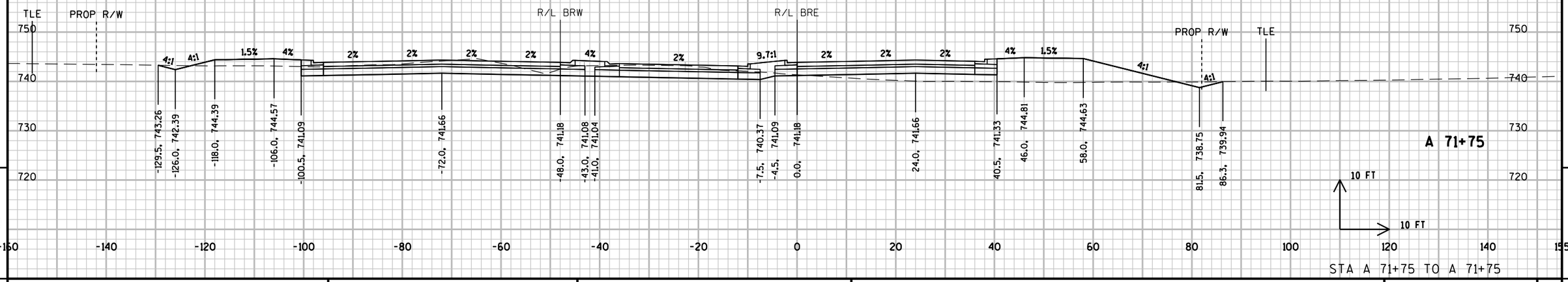


STA A 70+50 TO A 71+50

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 543	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PH03\CADD\Z7E040D1762x2BBE.dgn 8:05:11 AM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 2704-00-76	HWY: WISCONN VALLEY WAY	COUNTY: RACINE	CROSS SECTIONS: BRAUN ROAD	SHEET 544	E

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\71190 I-94 Local Roads\4_Engineering\4.3_Braun\4.3.2_WCVW\PH10\dgn\71190-X27-E04-D1627_s2BRE.dgn 5:12 AM PLOT BY : dbaumann PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

Notes

Wisconsin Department of Transportation

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