MAD

DECEMBER 2019

PROJECT ID: 5992-10-31/32/33

WITH: N/A

COUNTY: DANE

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 = 670

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

CITY OF MADISON, GAMMON ROAD

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5992-10-31	WISC 2019771	1
5992-10-32	WISC 2019772	1
5992-10-33	———	———

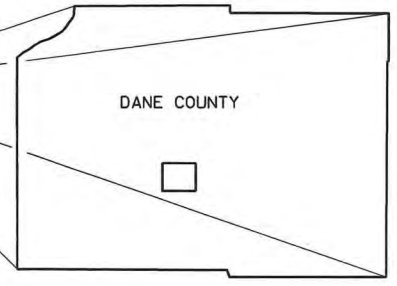
W TWN MALL TO GRAND CANYON DR
LOCAL STREET
DANE COUNTY
STATE PROJECT NUMBER
5992-10-31

USH 12 TO MINERAL POINT RD
LOCAL STREET
DANE COUNTY
STATE PROJECT NUMBER
5992-10-32

USH 12 TO MINERAL POINT RD
SANITARY WATER UTILITIES
DANE COUNTY
STATE PROJECT NUMBER
5992-10-33

N

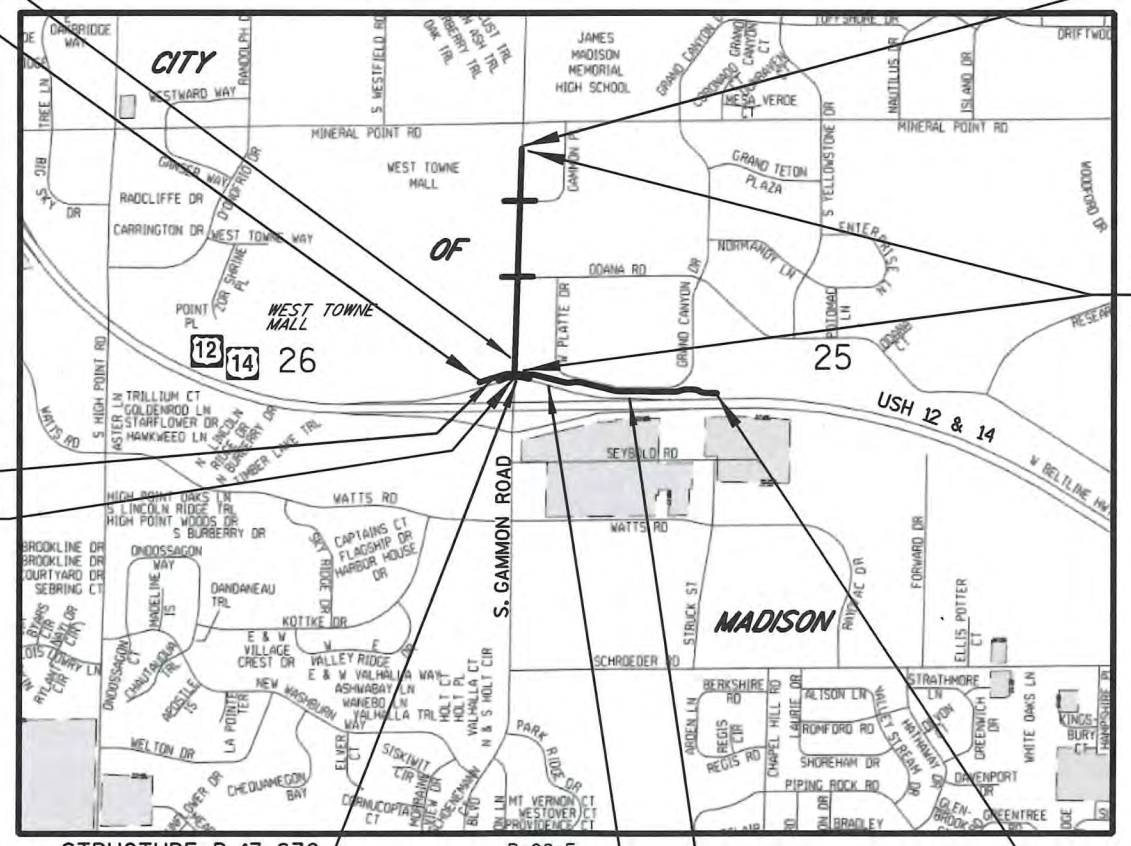




STRUCTURES R-13-339, & R-13-343

BEGIN PROJECT 5992-10-31
STA. 294+50.00'BP'
Y = 475315.514
X = 789215.636

END PROJECT 5992-10-32
STA. 229+64.24'NB'
Y = 477433.490
X = 789490.864



PROJECT 5992-10-33
INTERMITTENT LOCATIONS

T-07-N

STRUCTURE R-13-338

BEGIN PROJECT 5992-10-32
STA. 208+07.60'NB'
Y = 475278.469
X = 789418.688

STRUCTURE B-13-870

STRUCTURE R-13-342

STRUCTURES
R-13-340, & R-13-341

END PROJECT 5992-10-31
STA. 314+75.79'BP'
Y = 475154.504
X = 791213.060

LAYOUT
SCALE 0 — 1/2 MI.

TOTAL NET LENGTH OF CENTERLINE PROJECT 5992-10-31 = 0.384 MI.
TOTAL NET LENGTH OF CENTERLINE PROJECT 5992-10-32 = 0.408 MI.

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), DANE COUNTY, NAD83 (1993), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (1988). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

DESIGN DESIGNATION

A.A.D.T. (2020)	=	34,100
A.A.D.T. (2040)	=	37,400
D.H.V. (2040)	=	4,100
D.D.	=	59/41
T.	=	5.4%
DESIGN SPEED	=	40
ESALS	=	3,300,000

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

ACCEPTED FOR
City of Madison
9/26/19 (Date)
CITY ENGINEER (Signature & Title of Official)

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
WISCONSIN
DAN J. SCHRUM
E-40185
MIDDLETON
WI
PROFESSIONAL ENGINEER
7/23/19 (Date)
(Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	Ayres Associates
Designer	Ayres Associates
Project Manager	Mark Westerveld
Regional Examiner	Mark Westerveld
Regional Supervisor	Oscar Winger

APPROVED FOR THE DEPARTMENT
DATE: 9/26/2019 Mark Westerveld (Signature)

E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\010101_TI.dgn PLOT BY : dm253 PLOT DATE : 7/23/2019 PLOT SCALE : 1:200

GENERAL NOTES

ELEVATIONS SHOWN ARE REFERENCED TO THE USGS DATUM NAVD 88 (1988).

GUTTER SLOPE ON CONCRETE CURB & GUTTER IS 6.25%.

WHEN THE QUANTITY OF BASE AGGREGATE, HMA PAVEMENT OR ASPHALTIC SURFACE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

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

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

CURVE DATA IS BASED ON ARC DEFINITION.

THE EXACT LOCATION OF EROSION CONTROL DEVICES SHALL BE DETERMINED IN THE FIELD.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY ARE TO BE 6-INCH TOPSOIL, FERTILIZED, SEED, MULCHED OR SOD.

BEARINGS SHOWN ON THE PLANS ARE SHOWN TO THE NEAREST SECOND.

ALL CURB AND GUTTER RADII, PAVEMENT DIMENSIONS AND STATIONS ARE SHOWN TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

A VERTICAL SAWCUT WILL BE MADE THROUGH PAVEMENTS AT REMOVAL LIMITS.

LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE. RIM ELEVATIONS ARE GIVEN AT THE FLOWLINE OF INLET OR AT THE CENTER OF MANHOLE.

ALL STORM SEWER INVERTS, ELEVATIONS, PIPE LENGTHS, AND GRADES ARE COMPUTED CENTER-TO-CENTER OF STRUCTURES.

EXCAVATION BELOW SUBGRADE (EBS) MAY BE REQUIRED IN AREAS WHERE POOR SOILS ARE ENCOUNTERED. EBS MATERIAL MAY BE USED AS FILL IN AREAS OUTSIDE OF ROADWAY SHOULDER POINTS. ESTIMATED EBS AREAS ARE SHOWN ON THE CROSS SECTIONS. ACTUAL LIMITS OF EBS IS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYER THICKNESSES:
- UPPER: 2.0" (4MT58-28H)
- MIDDLE: 2.5" (3MT58-28S)
- LOWER: 2.25" (3MT58-28S)

SILT FENCE IS TO BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

DESIGN CONTACT

AYRES ASSOCIATES
ATTN: DAN SCHRUM, P.E.
5201 E. TERRACE DRIVE, SUITE 200
MADISON, WI 53718
PHONE: (608) 443-1277
EMAIL: SCHRUMD@AYRESASSOCIATES.COM

DNR CONTACT

WISCONSIN DNR, SOUTHWEST REGION
ATTN: ERIC HEGGELUND
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
PHONE: (608) 275-3301
EMAIL: ERIC.HEGGELUND@WISCONSIN.GOV

ORDER OF SECTION 2 SHEETS

PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PAVING DETAILS
PAVING GRADES
EROSION CONTROL & FENCING
STORM SEWER
WATER AND SANITARY SEWER
EXISTING UTILITIES
PERMANENT SIGNING AND PAVEMENT MARKING
LIGHTING AND SIGNALS
TEMPORARY SIGNALS
TRAFFIC CONTROL
CONSTRUCTION STAGING
TEMPORARY DRAINAGE
ALIGNMENT DIAGRAM

*DENOTES UTILITIES THAT ARE NOT A DIGGERS HOTLINE MEMBER

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

UTILITY CONTACTS

WATERMAIN:

CITY OF MADISON WATER UTILITY
ATTN: ADAM WIEDERHOEFT
119 E. OLIN AVENUE
MADISON, WI 53713
PHONE: (608) 266-9121 FAX: (608) 266-4426
E-MAIL: AWIEDERHOEFT@MADISONWATER.ORG

STORM SEWER:

CITY OF MADISON ENGINEERING DIVISION
ATTN: JANET SCHMIDT
210 MARTIN LUTHER KING JR. BOULEVARD
CITY-COUNTY BUILDING, ROOM 115
MADISON, WI 53703
PHONE: (608) 266-4913
FAX: (608) 264-9275
E-MAIL: JSCHMIDT@CITYOFMADISON.COM

SANITARY SEWER:

CITY OF MADISON ENGINEERING DIVISION
ATTN: MARK MODER
210 MARTIN LUTHER KING JR. BOULEVARD
CITY-COUNTY BUILDING, ROOM 115
MADISON, WI 53703
PHONE: (608) 261-9250
FAX: (608) 264-9275
E-MAIL: MMODER@CITYOFMADISON.COM

SANITARY SEWER

MMSD
ATTN: JEN HURLEBAUS
1610 MOORLAND ROAD
MADISON, WI 53713

TRAFFIC SIGNALS & STREET LIGHTING:

CITY OF MADISON TRAFFIC ENGINEERING DIVISION
ATTN: BRIAN SMITH
P.O. BOX 2986
MADISON, WI 53701-2986
PHONE: (608) 261-9625
FAX: (608) 267-1158
E-MAIL: BSMITH@CITYOFMADISON.COM

GAS:

MADISON GAS & ELECTRIC
ATTN: SHAUN ENDRES
P.O. BOX 1231
MADISON, WI 53701-1231
PHONE: (608) 252-7224
E-MAIL: SENDRES@MGE.COM

CABLE TELEVISION:

CHARTER COMMUNICATIONS
ATTN: BRANDON STORM
2701 DANIELS ST.
MADISON, WI 53718
PHONE: (608) 274-3822 EX 6642
E-MAIL: BRANDON.STORM@CHARTERCOM.COM

ELECTRIC

AMERICAN TRANSMISSION COMPANY
ATTN: LORI KOLBOW
W234 N2000 RIDGEVIEW PKWY CT
PHONE: (262) 506-6886
E-MAIL: LKOLBOW@ATCLLC.COM

UTILITY CONTACTS (CON'T)

ELECTRIC:

ALLIANT ENERGY
MICHAEL BROLIN
4902 N. BILTMORE LANE
MADISON, WI 53718-2148
PHONE: 608-458-4871

MADISON GAS & ELECTRIC
ATTN: MARK BOHM
P.O. BOX 1231 133 S BLAIR STREET
MADISON, WI 53701-1231 PHONE: (608) 252-7379
E-MAIL: RPARKER@MGE.COM

TELEPHONE:

AT&T WISCONSIN
ATTN: CAROL ANASON
316 W. WASHINGTON AVE., 4TH FLOOR
MADISON, WI 53703
PHONE: (920) 252-2385
E-MAIL: CA2624@ATT.COM

AT&T CORPORATION
ATTN: TODD NOORDA
316 W. WASHINGTON AVE., ROOM 209
MADISON, WI 53703
PHONE: (608) 556-7199
E-MAIL: NN2589@ATT.COM

COMMUNICATIONS:

WISCONSIN INDEPENDENT NETWORK
ATTN: JIM BIRKENHEIER
800 WISCONSIN ST, # 107
EAU CLAIRE, WI 54703-3613
PHONE: (715) 832-6041
E-MAIL: JBIRKENHEIER@WINS.NET

WINDSTREAM
FORMERLY: KENTUCKY DATA LINK
KEVIN PARRIS
1858 WRIGHT STREET
MADISON, WI 53704

WISCONSIN DEPARTMENT OF TRANSPORTATION
ATTN: JEFF MADSON
433 W ST PAUL, STE 300
MILWAUKEE, WI 53203
PHONE: (414) 225-3723
E-MAIL: JEFFREY.MADSON@DOT.WI.GOV

ATTN: GRAHAM HEITZ
2101 WRIGHT ST
MADISON, WI 53704-2559
EMAIL: GRAHAM.HEITZ@DOT.WI.GOV

TDS METROCOM
JERRY MYERS
525 JUNCTION ROAD
MADISON, WI 53717
E-MAIL: JERRY.MYERS@TDSTELECOM.COM

TDS TELECOMMUNICATIONS
JERRY MYERS
525 JUNCTION ROAD
MADISON, WI 53717
E-MAIL: JERRY.MYERS@TDSTELECOM.COM

CENTURYLINK CLEC
KENDALLYN WILLIAMS-ZETINA
100 CINCINNATI AVE, SUITE 1200
TULSA, OK 74103
EMAIL: KENDALL.ZETINA@CENTURYLINK.COM

MCI (KLJ ENGINEERING)
STEVE KLICKER
4585 COLEMAN STREET
BISMARK, ND 58503
PHONE: (701) 690-0162
EMAIL: STEVE.KLICKER@KLJENG.COM

2

BEGIN PROJECT 5992-10-31
STA. 294+50.00'BP'

END PROJECT 5992-10-32
STA. 229+64.24'NB'

'MAB' LINE
'BC' LINE
'SW' LINE
'BD' LINE
'MA' LINE
'MB' LINE
'WBO' LINE
'SB' LINE

GAMMON ROAD
200
205
210
215
220
225
230

GAMMON ROAD

BEGIN PROJECT 5992-10-32
STA. 208+07.60'NB'

'NB' LINE
'GP' LINE
'OD' LINE
'WBF' LINE
'BF' LINE

W. PLATTE DRIVE
GAMMON PLACE
ODANA ROAD
MINERAL POINT ROAD
SEYBOLD ROAD

PROPOSED
BIKE PATH

PROJECT 5992-10-33
INTERMITTENT LOCATIONS

'BP' LINE

GRAND CANYON DRIVE
USH 12 & 14

'BH' LINE

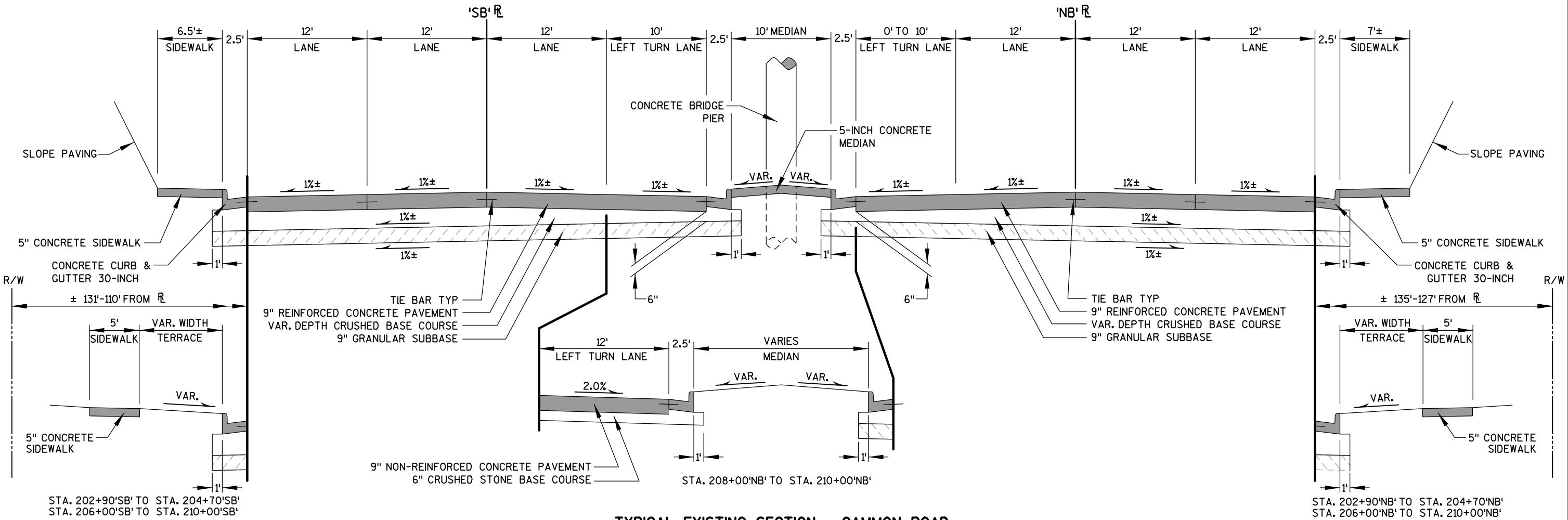
END PROJECT 5992-10-31
STA. 314+75.79'BP'

'BJ' LINE
'PL' LINE

N

PROJECT NO: 5992-10-31/32/33	HWY: GAMMON RD	COUNTY: DANE	PROJECT OVERVIEW	SHEET 3	E

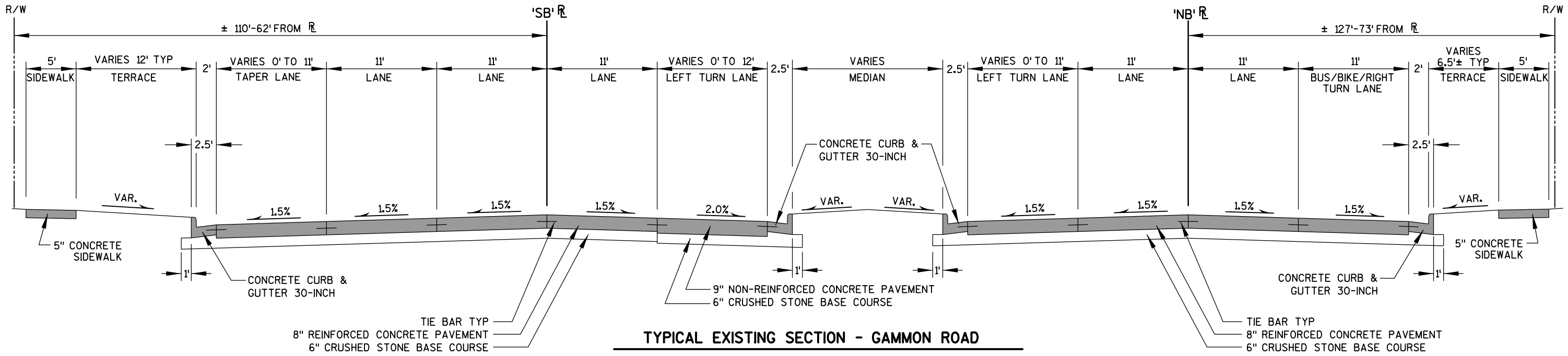
FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\020201_PO.dgn
PLOT BY : kk226 PLOT DATE : 6/13/2019 PLOT SCALE : 1:250



TYPICAL EXISTING SECTION - GAMMON ROAD

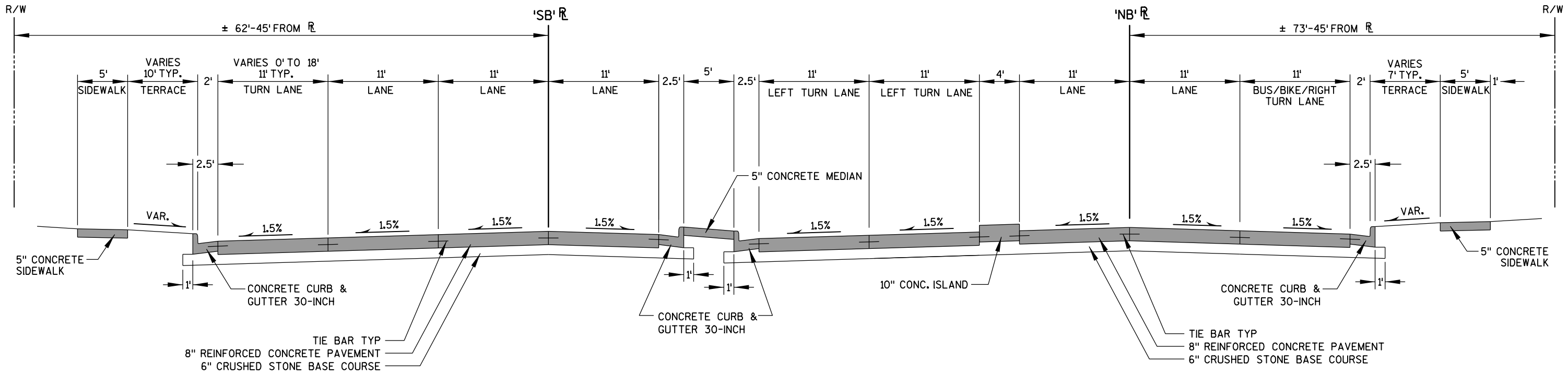
STA. 202+90'NB' TO STA. 210+00'NB'

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	EXISTING TYPICAL SECTIONS	SHEET 4	E



TYPICAL EXISTING SECTION - GAMMON ROAD

NORTHBOUND LANES - STA. 210+00'NB' TO STA. 214+75'NB'
SOUTHBOUND LANES - STA. 210+00'SB' TO STA. 214+75'SB'

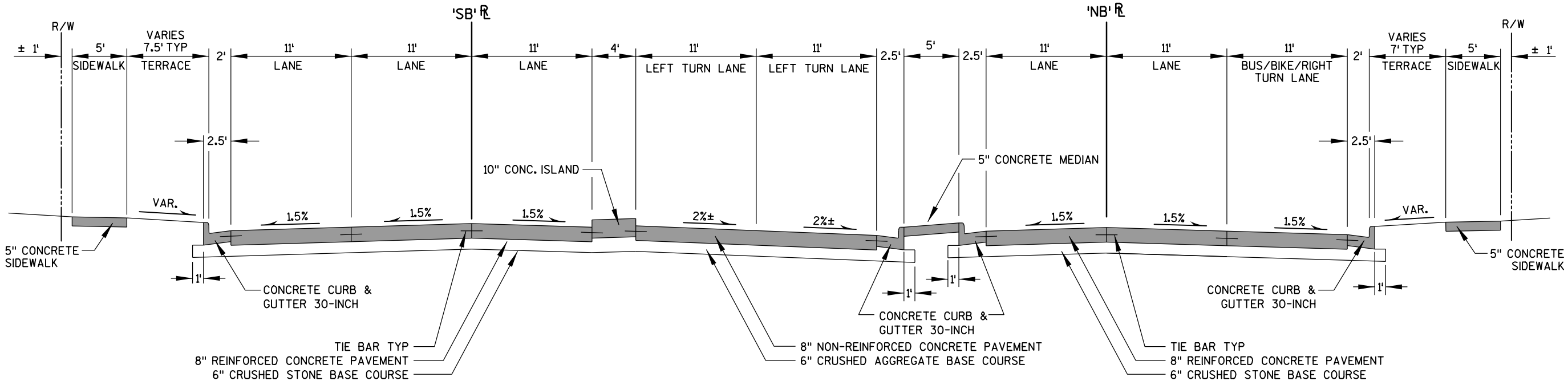


TYPICAL EXISTING SECTION - GAMMON ROAD

STA. 214+75'NB' TO STA. 217+65'NB'
STA. 214+75'SB' TO STA. 217+65'SB'

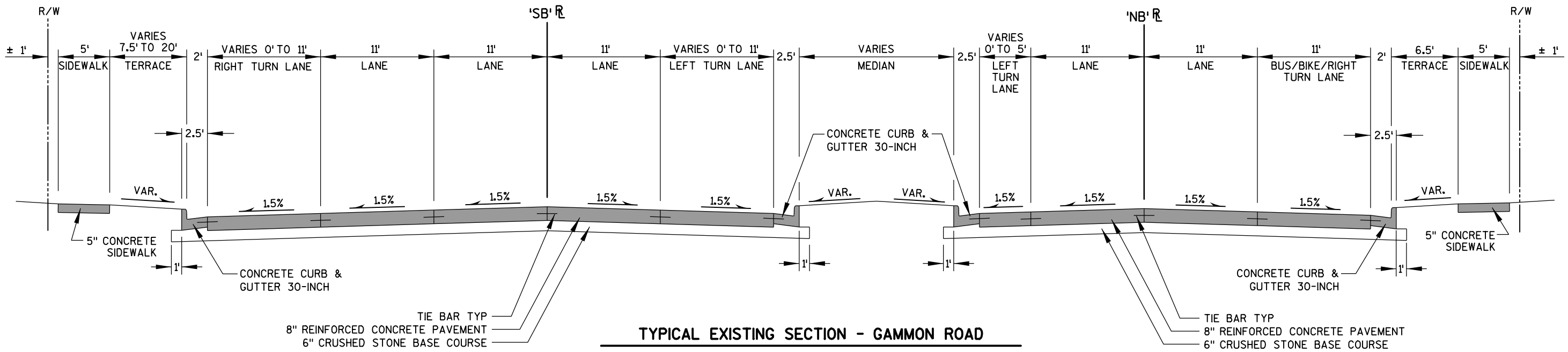
PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	EXISTING TYPICAL SECTIONS	SHEET 5	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\020303_ETS.dgn PLOT BY : dm253 PLOT DATE : 7/22/2019 PLOT SCALE : 1:200



TYPICAL EXISTING SECTION - GAMMON ROAD

STA. 217+65'NB' TO STA. 220+40'NB'
STA. 217+65'SB' TO STA. 220+40'SB'

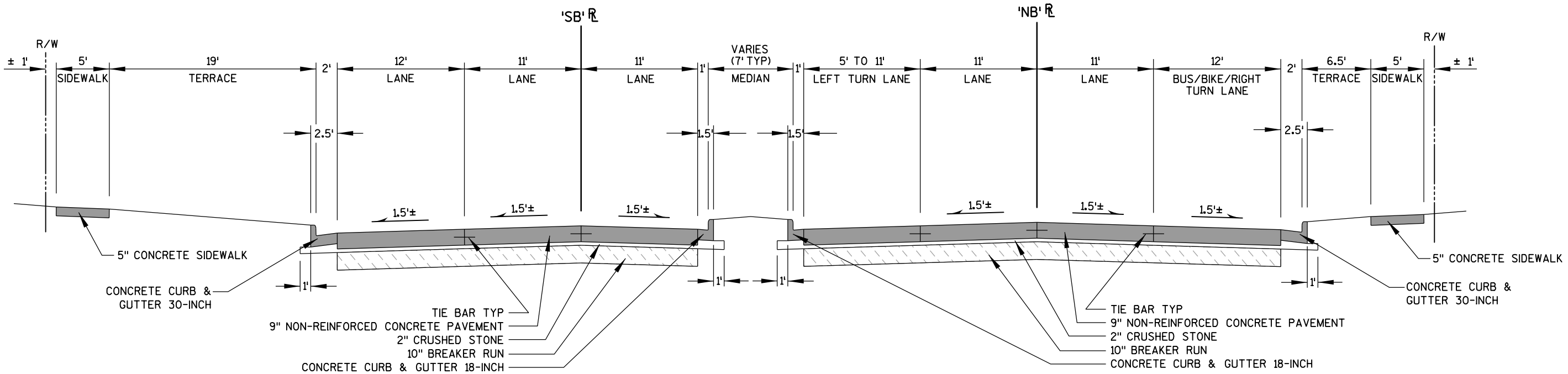


TYPICAL EXISTING SECTION - GAMMON ROAD

NORTHBOUND LANES - STA. 220+40'NB' TO STA. 228+89'NB'
SOUTHBOUND LANES - STA. 220+40'SB' TO STA. 229+22'SB'

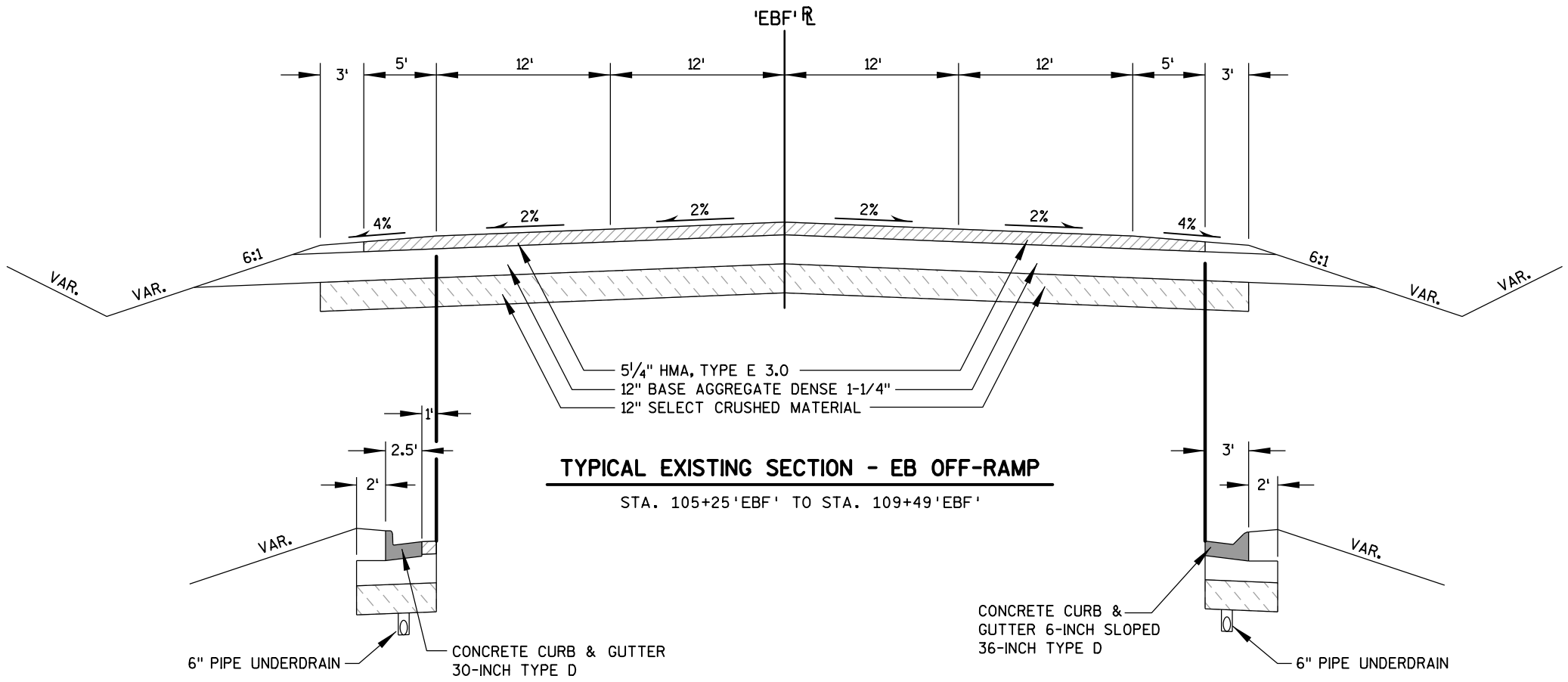
PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	EXISTING TYPICAL SECTIONS	SHEET 6	E

2



TYPICAL EXISTING SECTION - GAMMON ROAD

NORTHBOUND LANES - STA. 228+89'NB' TO STA. 232+00'NB'
SOUTHBOUND LANES - STA. 229+22'SB' TO STA. 232+00'SB'

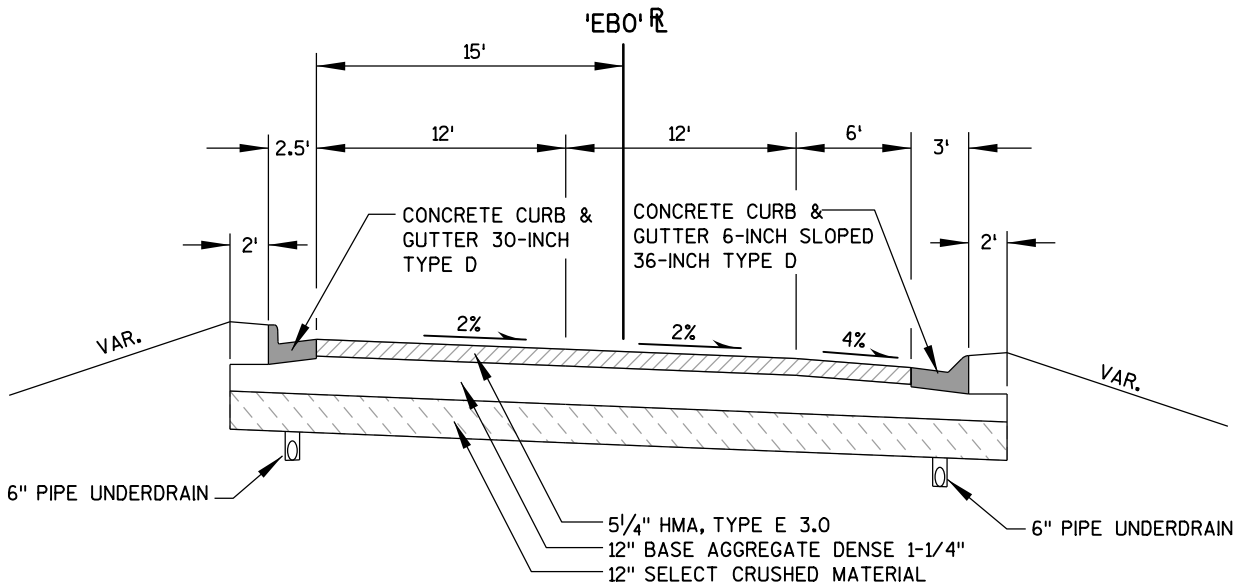


TYPICAL EXISTING SECTION - EB OFF-RAMP

STA. 105+25'EBF' TO STA. 109+49'EBF'

STA. 108+57'EBF' TO STA. 109+50'EBF'

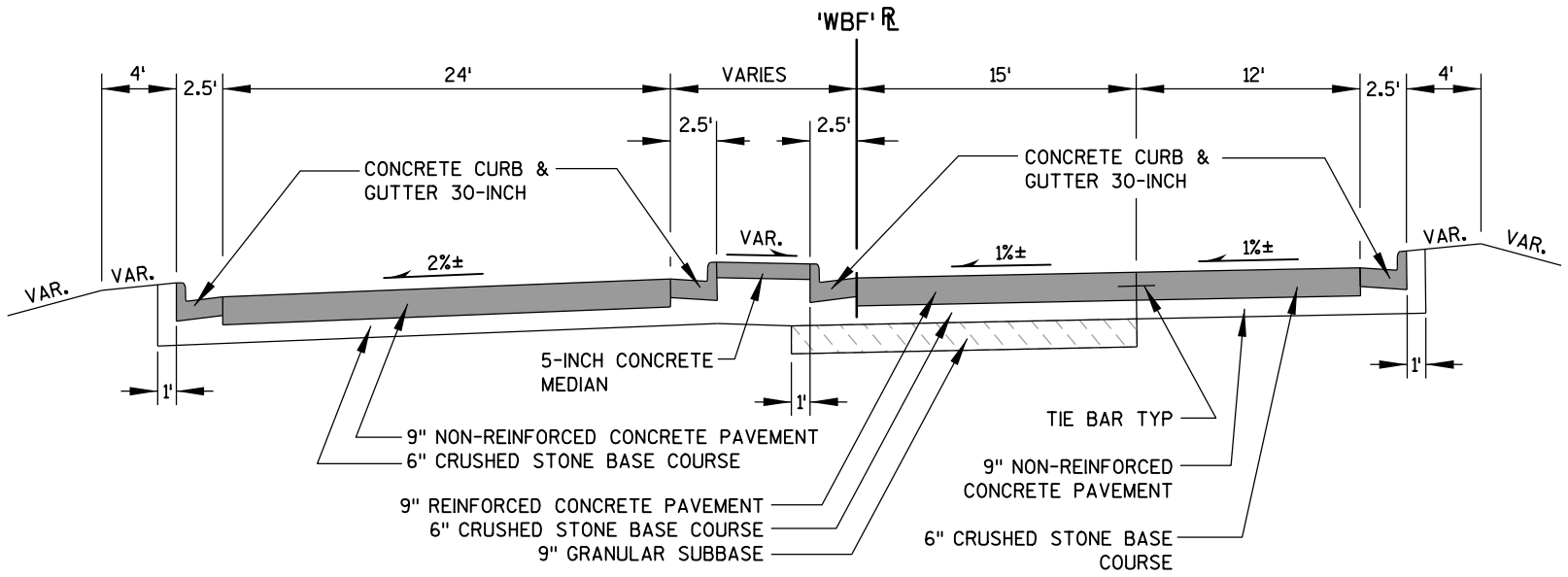
STA. 108+57'EBF' TO STA. 109+50'EBF'



TYPICAL EXISTING SECTION - EB ON-RAMP

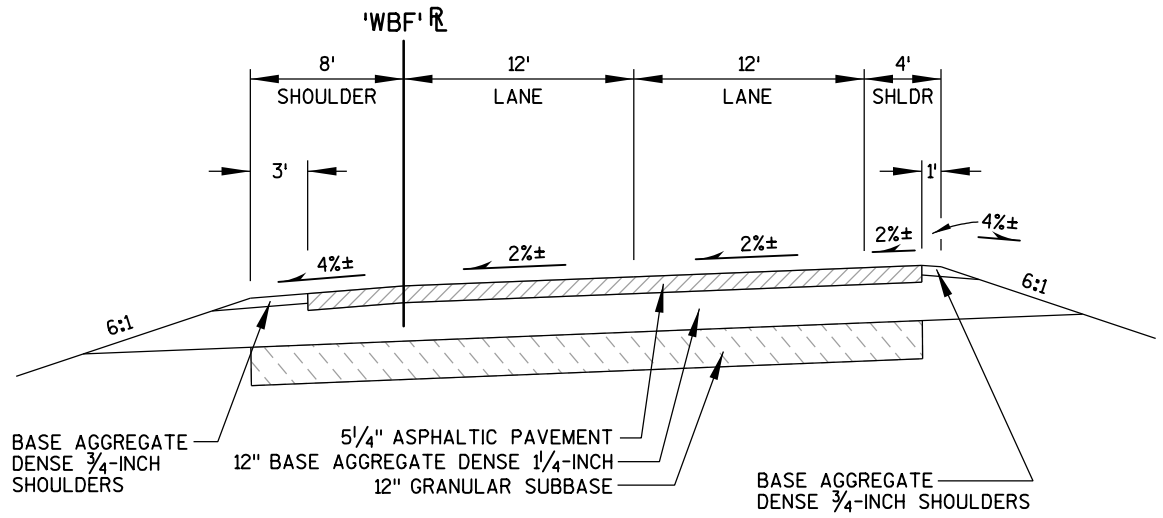
STA. 300+00'EBO' TO STA. 301+35'EBO'

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	EXISTING TYPICAL SECTIONS	SHEET 8	E



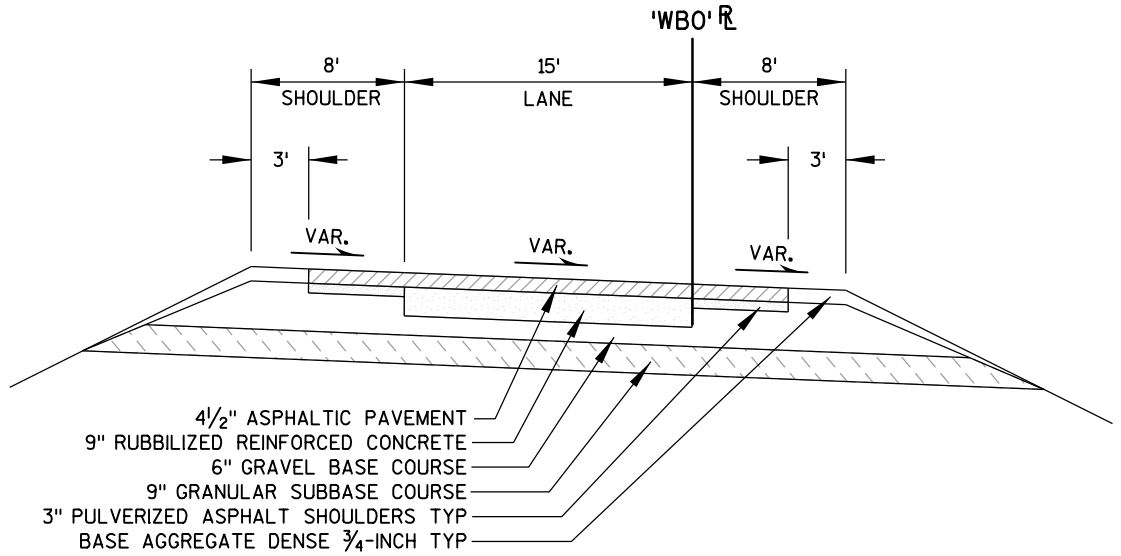
TYPICAL EXISTING SECTION - WB OFF-RAMP

STA. 195+50'WBF' TO STA. 199+90'WBF'



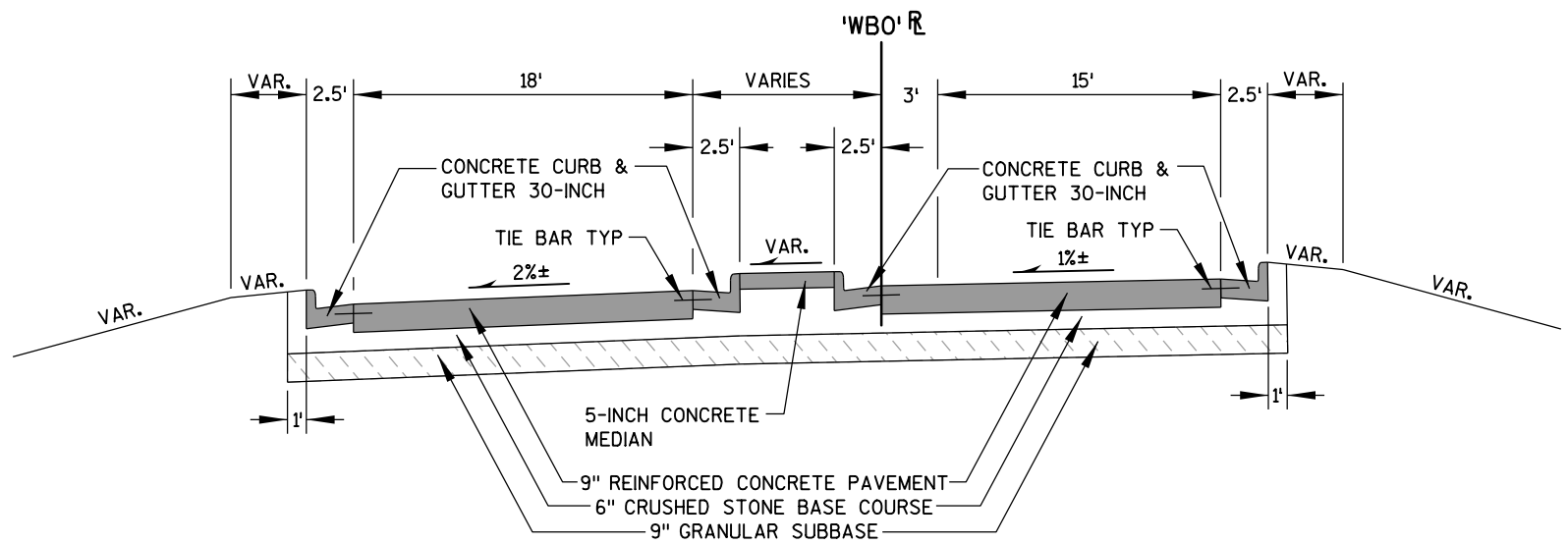
TYPICAL EXISTING SECTION - WB OFF-RAMP

STA. 199+90'WBF' TO USH 12/14 GORE AREA



TYPICAL EXISTING SECTION - WB ON-RAMP

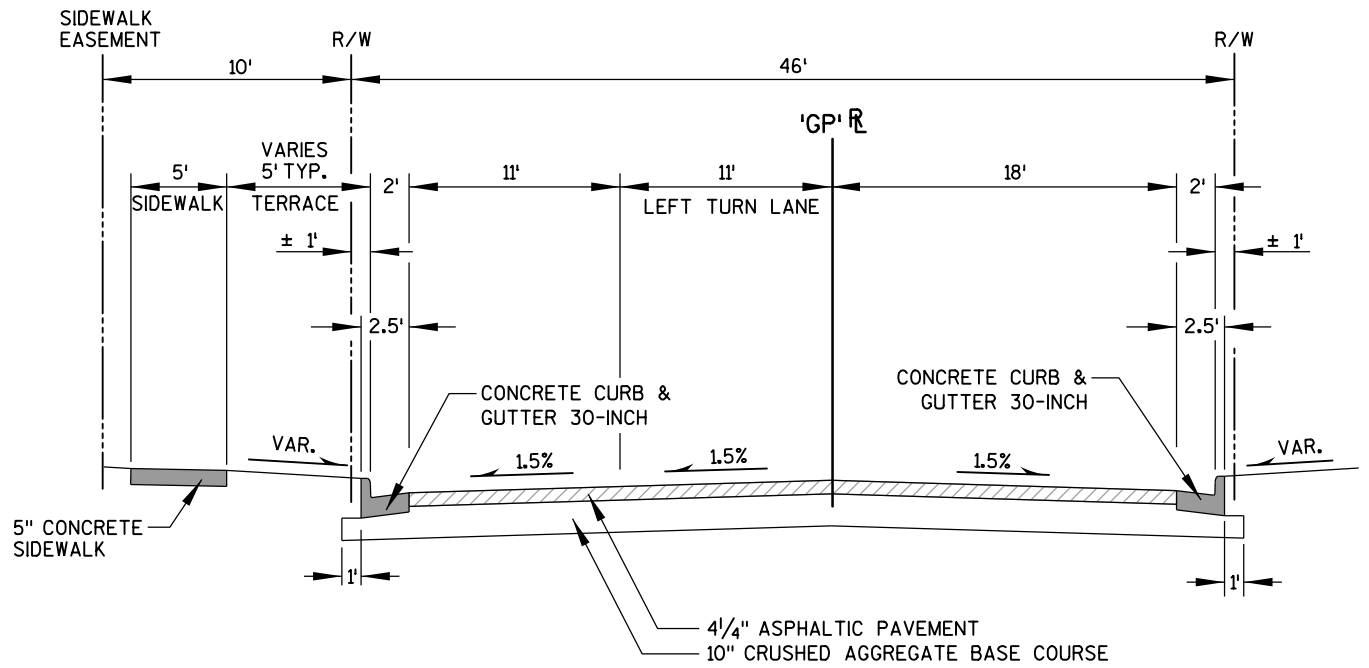
USH 12/14 GORE AREA TO STA. 397+43'WBO'



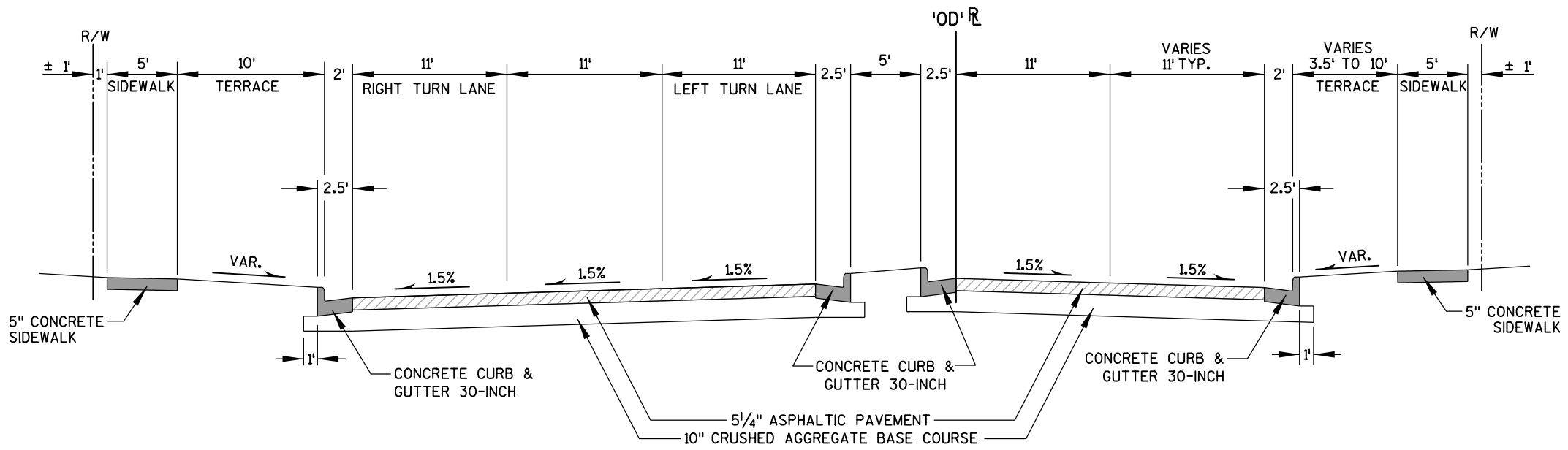
TYPICAL EXISTING SECTION - WB ON-RAMP

STA. 397+43'WBO' TO STA. 399+75'WBO'

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	EXISTING TYPICAL SECTIONS	SHEET 9	E

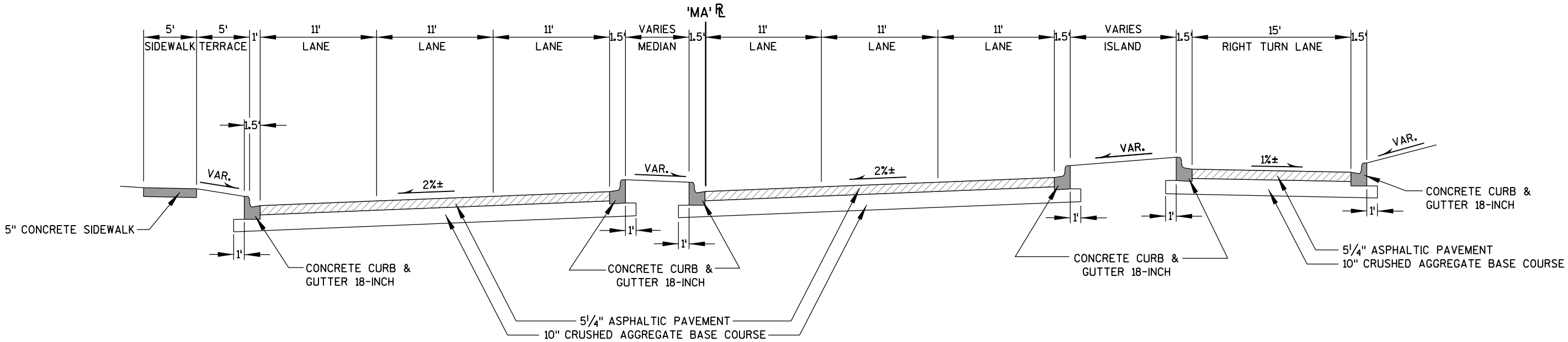


TYPICAL EXISTING SECTION - GAMMON PLACE

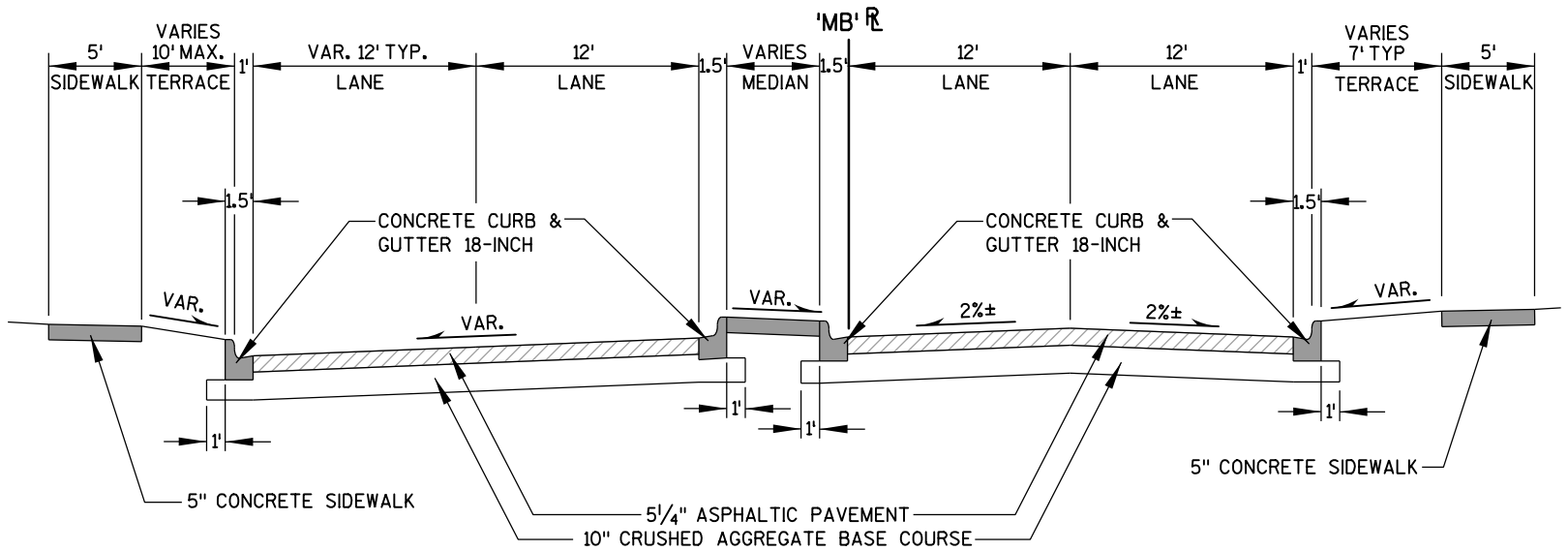


TYPICAL EXISTING SECTION - ODANA ROAD

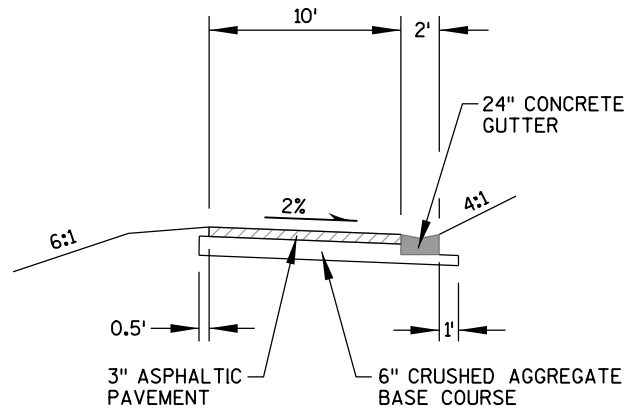
PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	EXISTING TYPICAL SECTIONS	SHEET 10	E



TYPICAL EXISTING SECTION - SOUTH MALL ENTRANCE 'MA' LINE



TYPICAL EXISTING SECTION - NORTH MALL ENTRANCE 'MB' LINE

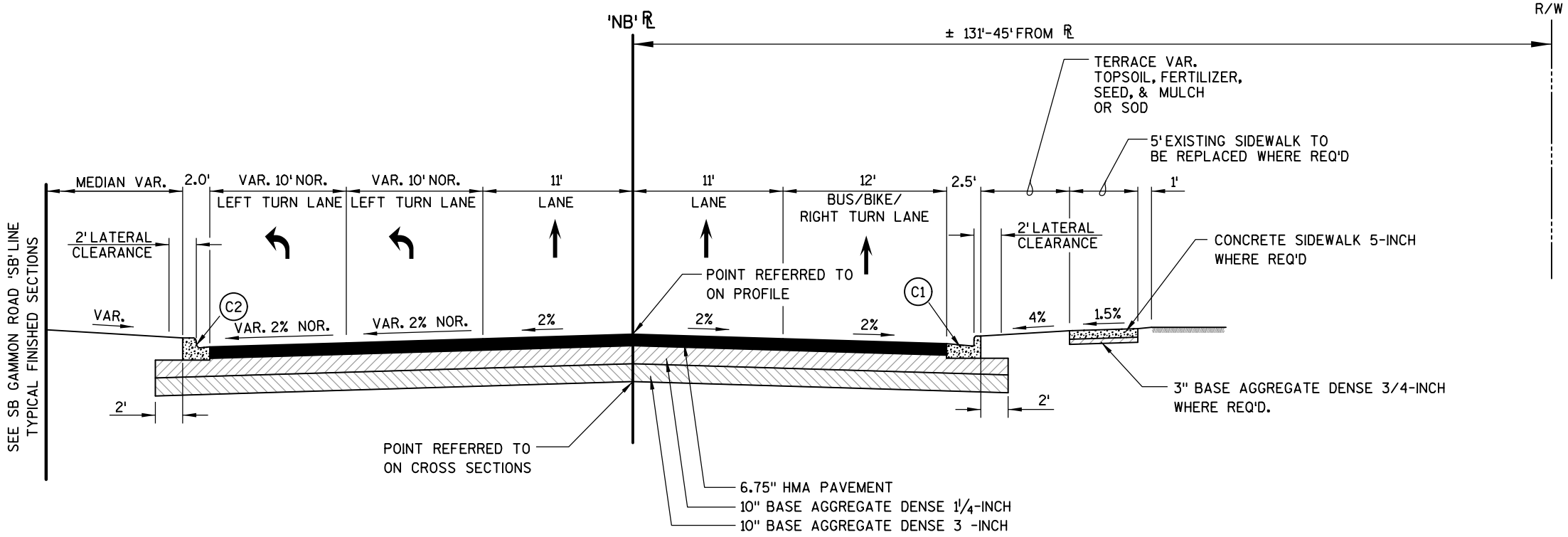


TYPICAL EXISTING SECTION - BIKE PATH

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	EXISTING TYPICAL SECTIONS	SHEET 11	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\020309_ETS.dgn PLOT BY : dm253 PLOT DATE : 7/22/2019 PLOT SCALE : 1:200

WISDOT/CADDS SHEET 42

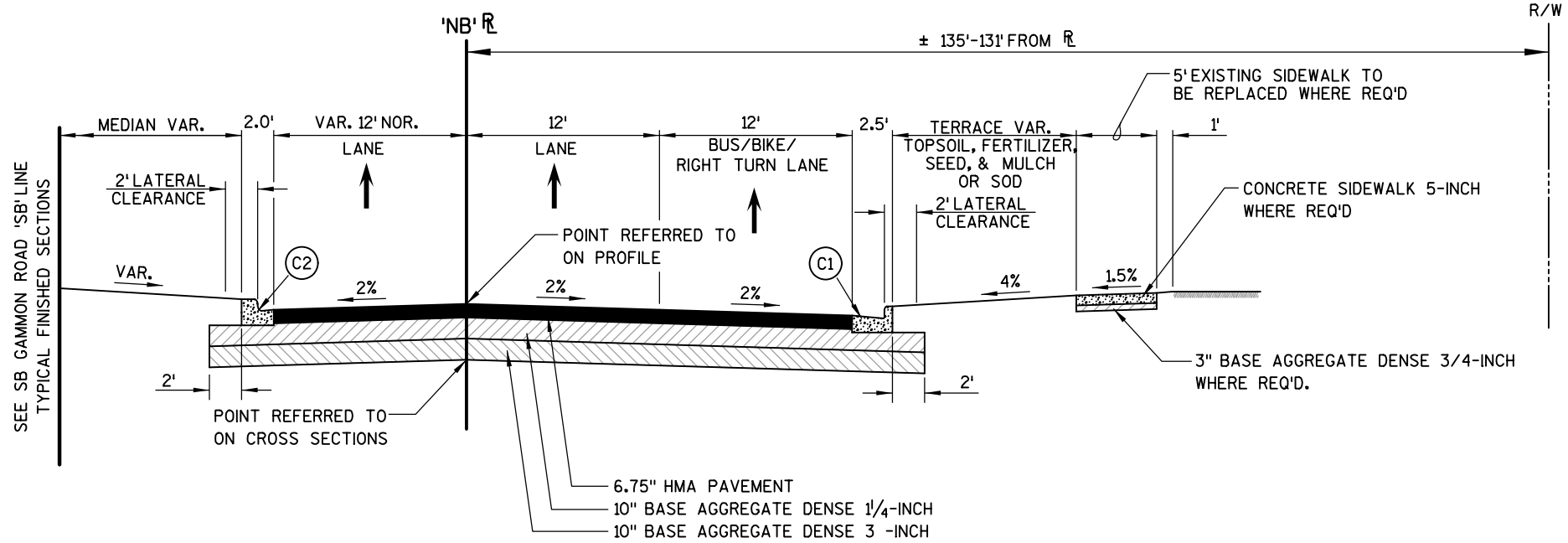


TYPICAL FINISHED SECTION - NB GAMMON ROAD 'NB' LINE

STA. 209+54'NB' TO STA. 217+00'NB'

(C1) CONCRETE CURB & GUTTER 30-INCH TYPE 'D' SPECIAL

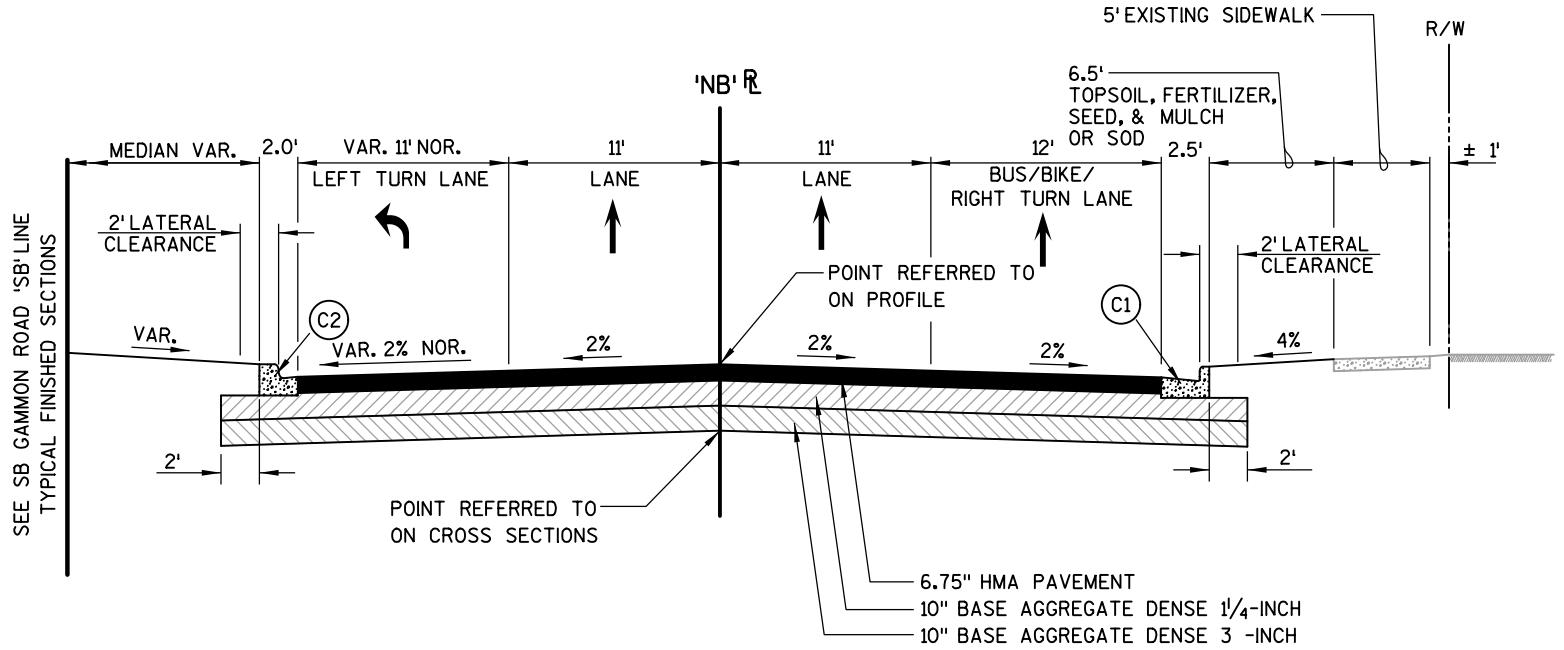
(C2) CONCRETE CURB & GUTTER 24-INCH TYPE 'D' SPECIAL



TYPICAL FINISHED SECTION - NB GAMMON ROAD 'NB' LINE

STA. 208+07.60'NB' TO STA. 209+54'NB'

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TYPICAL FINISHED NB GAMMON RD SECTIONS	SHEET 12	E

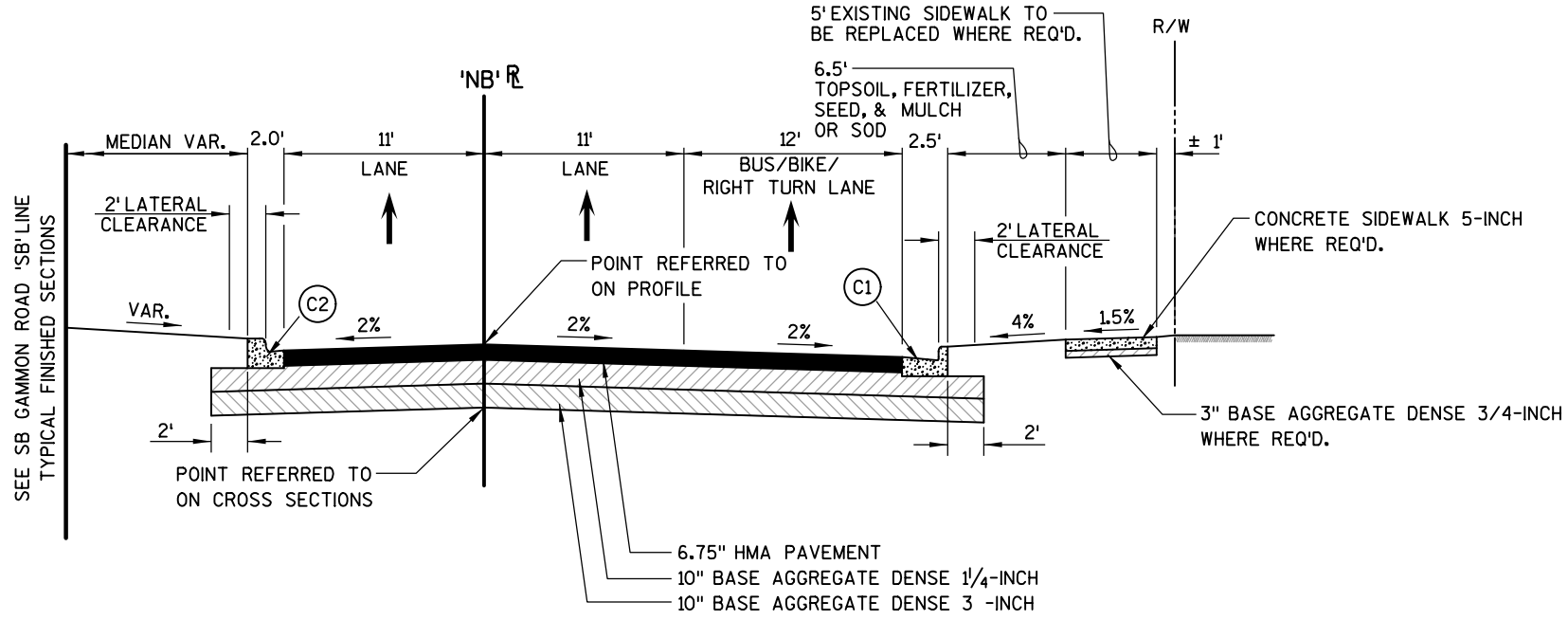


TYPICAL FINISHED SECTION - NB GAMMON ROAD 'NB' LINE

STA. 221+38'NB' TO STA. 224+68'NB'
STA. 227+15'NB' TO STA. 228+89'NB'
STA. 228+89'NB' TO STA. 229+64.24'NB' - LEFT TURN LANE ONLY

(C1) CONCRETE CURB & GUTTER 30-INCH TYPE 'D' SPECIAL

(C2) CONCRETE CURB & GUTTER 24-INCH TYPE 'D' SPECIAL



TYPICAL FINISHED SECTION - NB GAMMON ROAD 'NB' LINE

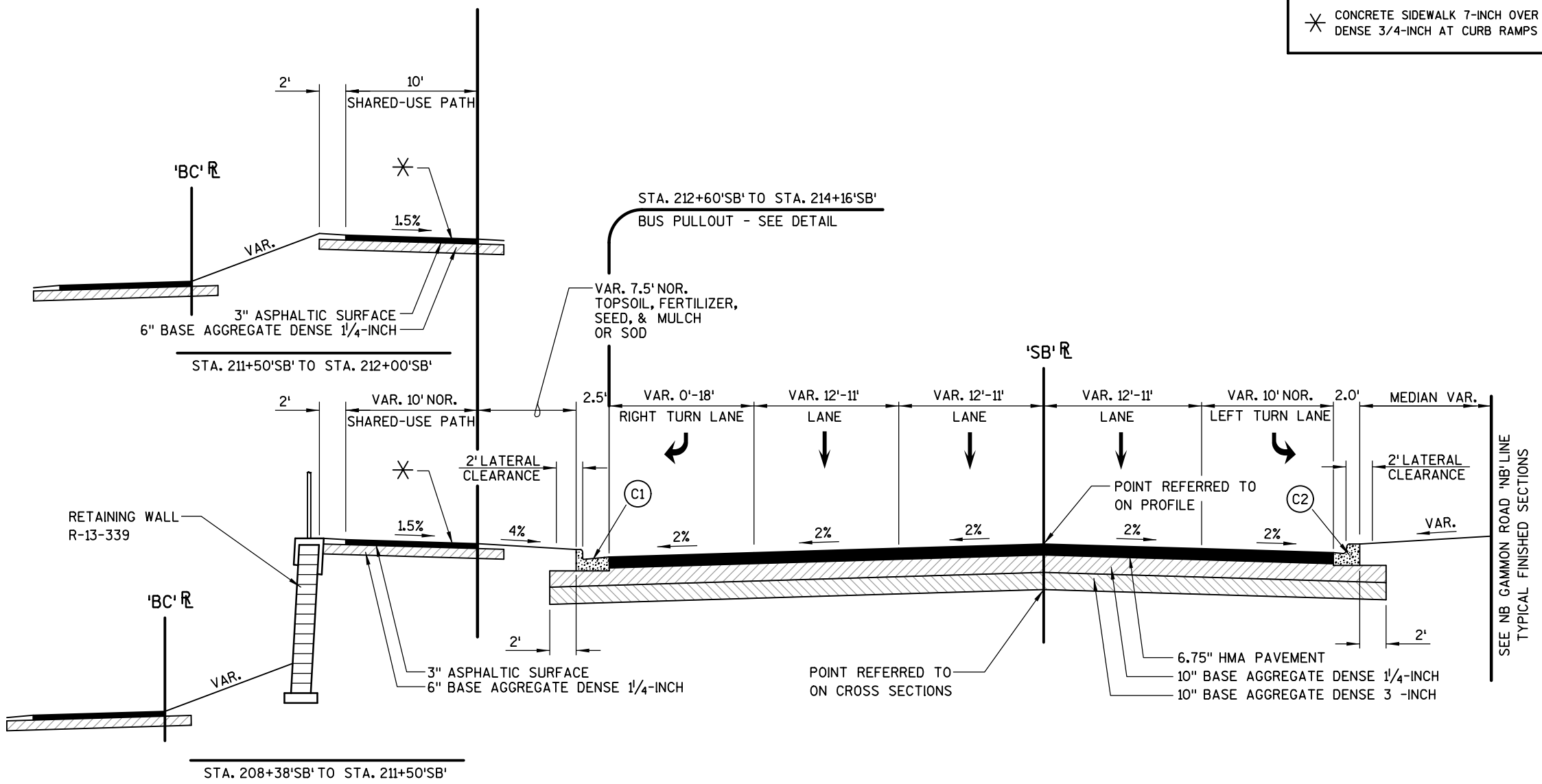
STA. 218+29'NB' TO STA. 221+38'NB'
STA. 225+56'NB' TO STA. 227+15'NB'

2

C1 CONCRETE CURB & GUTTER 30-INCH TYPE 'D' SPECIAL

C2 CONCRETE CURB & GUTTER 24-INCH TYPE 'D' SPECIAL

CONCRETE SIDEWALK 7-INCH OVER 2" BASE AGGREGATE DENSE 3/4-INCH AT CURB RAMPS AND LANDINGS



TYPICAL FINISHED SECTION - SB GAMMON ROAD 'SB' LINE

STA. 208+05.82'SB' TO STA. 213+72'SB'

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TYPICAL FINISHED SB GAMMON RD SECTIONS	SHEET 14	E

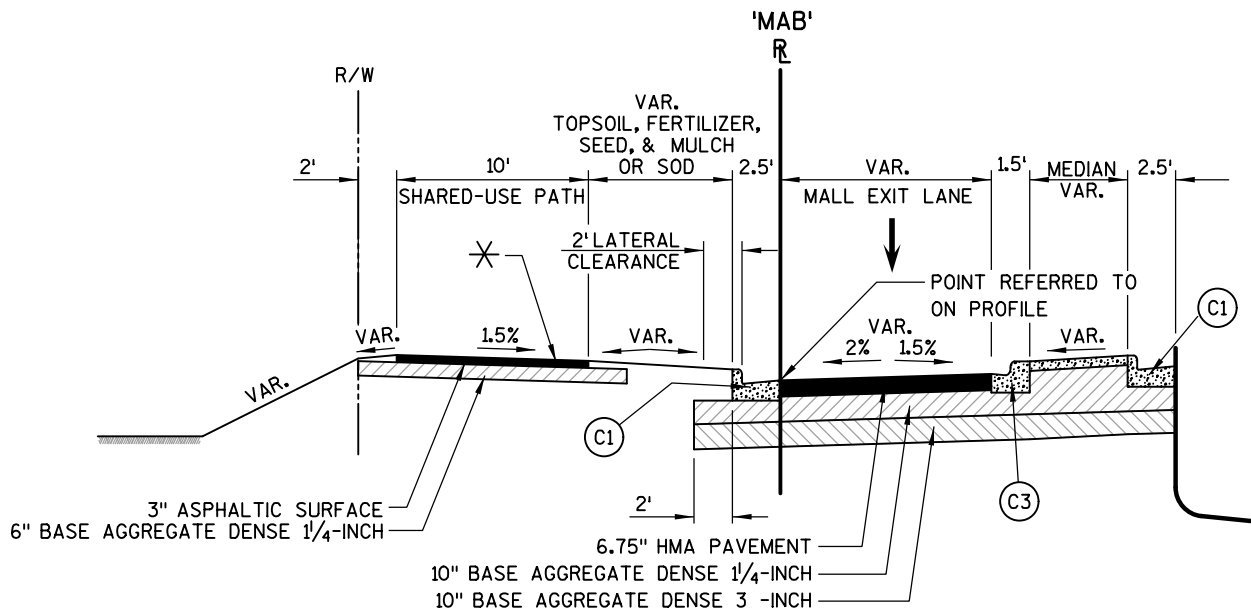
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(C1) CONCRETE CURB & GUTTER 30-INCH TYPE 'D' SPECIAL

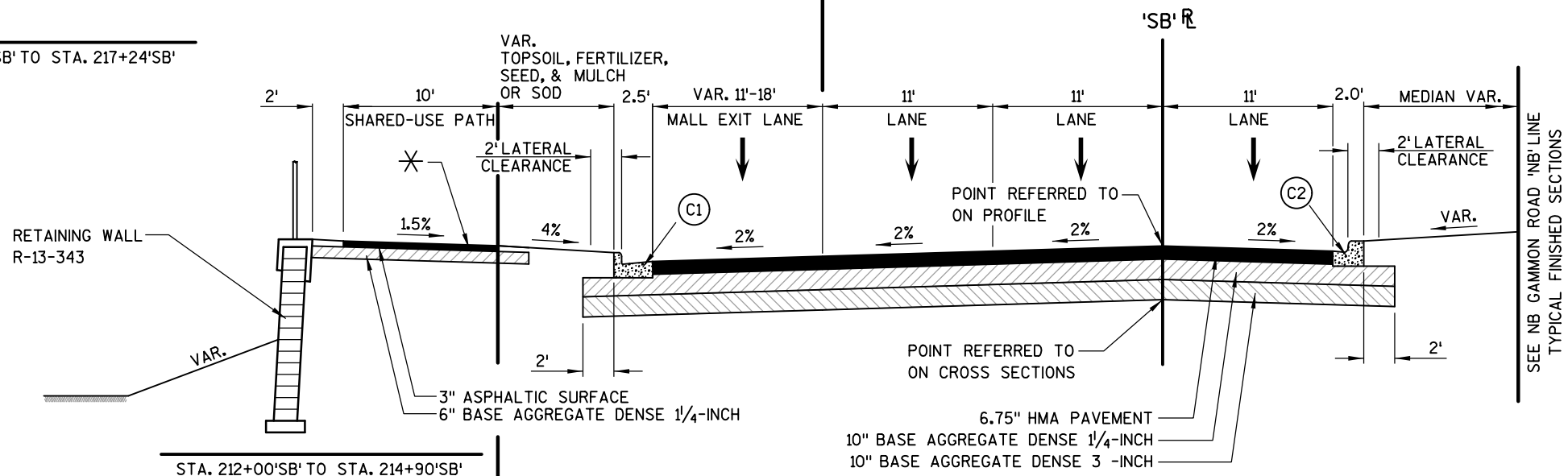
(C2) CONCRETE CURB & GUTTER 24-INCH TYPE 'D' SPECIAL

(C3) CONCRETE CURB & GUTTER 18-INCH TYPE 'D' SPECIAL

CONCRETE SIDEWALK 7-INCH OVER 2" BASE AGGREGATE DENSE 3/4-INCH AT CURB RAMPS AND LANDINGS

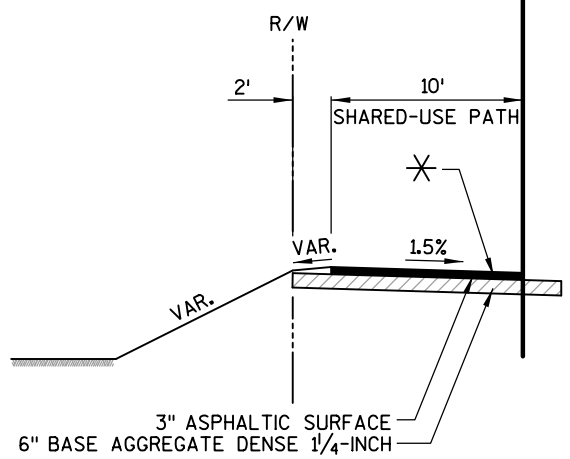


STA. 216+05'SB' TO STA. 217+24'SB'



TYPICAL FINISHED SECTION - SB GAMMON ROAD 'SB' LINE

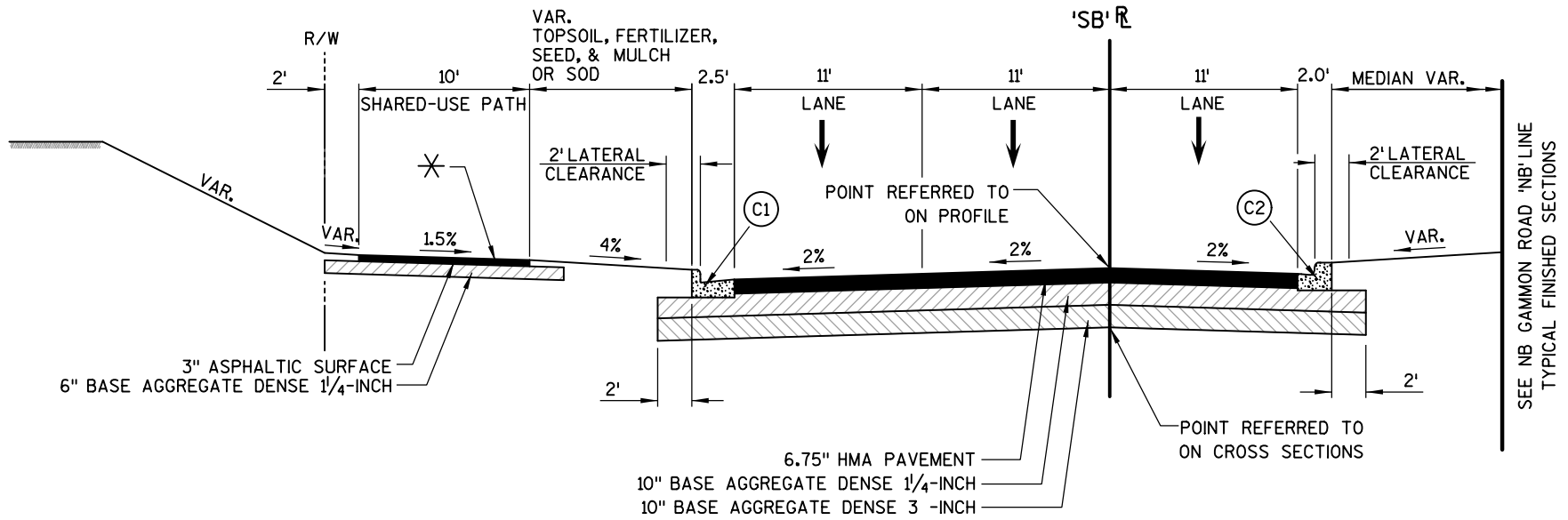
STA. 213+72'SB' TO STA. 217+24'SB'



STA. 214+90'SB' TO STA. 215+25'SB'

STA. 212+00'SB' TO STA. 214+90'SB'

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TYPICAL FINISHED SB GAMMON RD SECTIONS	SHEET 15	E



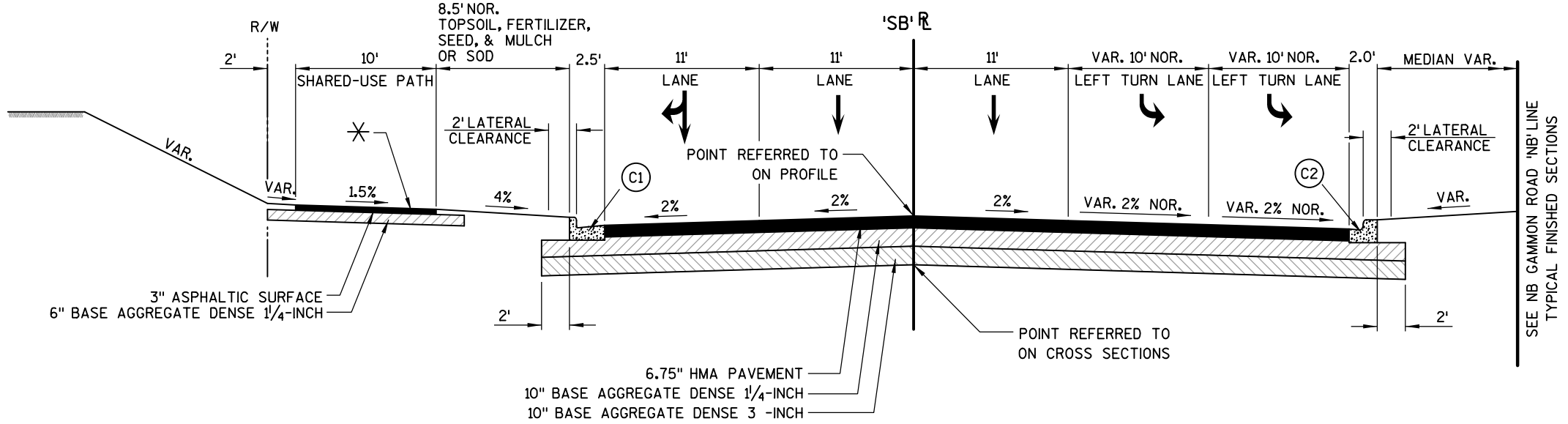
TYPICAL FINISHED SECTION - SB GAMMON ROAD 'SB' LINE

STA. 222+73'SB' TO STA. 224+69'SB'

(C1) CONCRETE CURB & GUTTER 30-INCH TYPE 'D' SPECIAL

(C2) CONCRETE CURB & GUTTER 24-INCH TYPE 'D' SPECIAL

✳ CONCRETE SIDEWALK 7-INCH OVER 2" BASE AGGREGATE DENSE 3/4-INCH AT CURB RAMPS AND LANDINGS



TYPICAL FINISHED SECTION - SB GAMMON ROAD 'SB' LINE

STA. 218+25'SB' TO STA. 222+73'SB'

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TYPICAL FINISHED SB GAMMON RD SECTIONS	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\020319_PTS.dgn PLOT BY : dm253 PLOT DATE : 7/24/2019 PLOT SCALE : 1:200

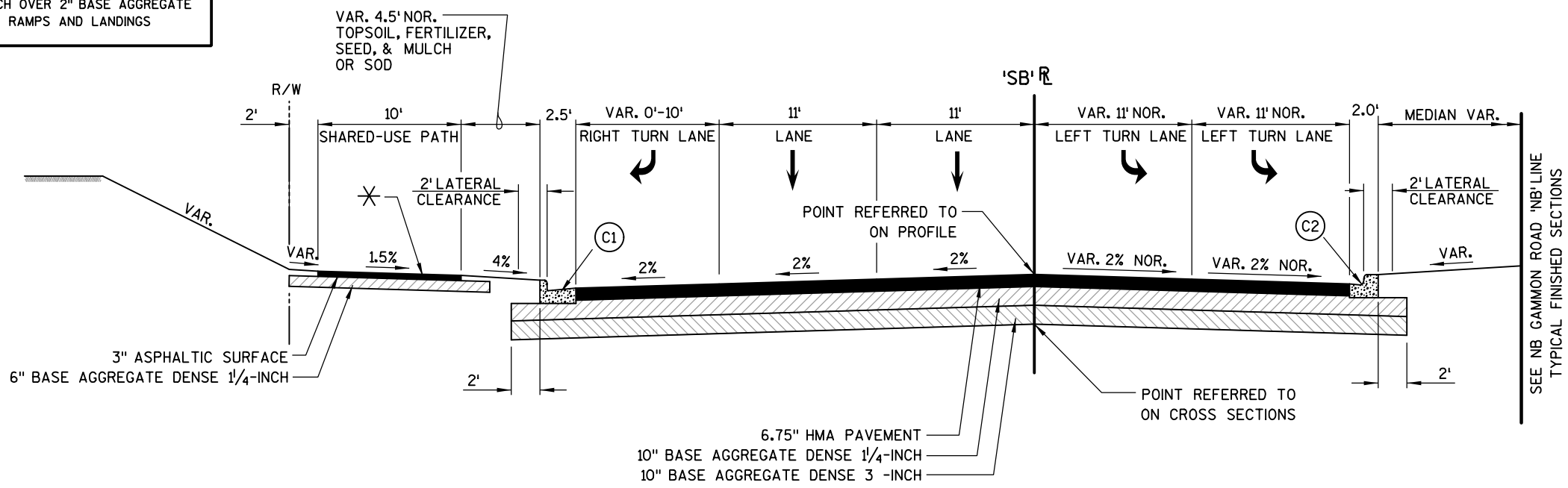
WISDOT/CADDS SHEET 42

2

(C1) CONCRETE CURB & GUTTER 30-INCH TYPE 'D' SPECIAL

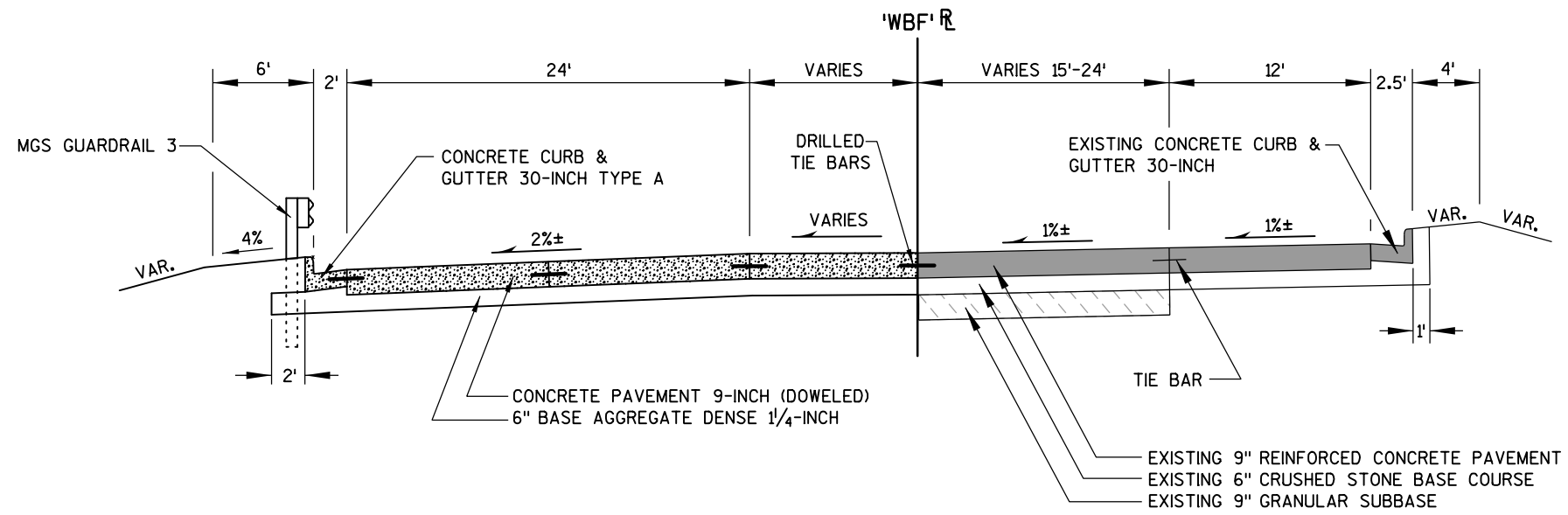
(C2) CONCRETE CURB & GUTTER 24-INCH TYPE 'D' SPECIAL

CONCRETE SIDEWALK 7-INCH OVER 2" BASE AGGREGATE DENSE 3/4-INCH AT CURB RAMPS AND LANDINGS



TYPICAL FINISHED SECTION - SB GAMMON ROAD 'SB' LINE

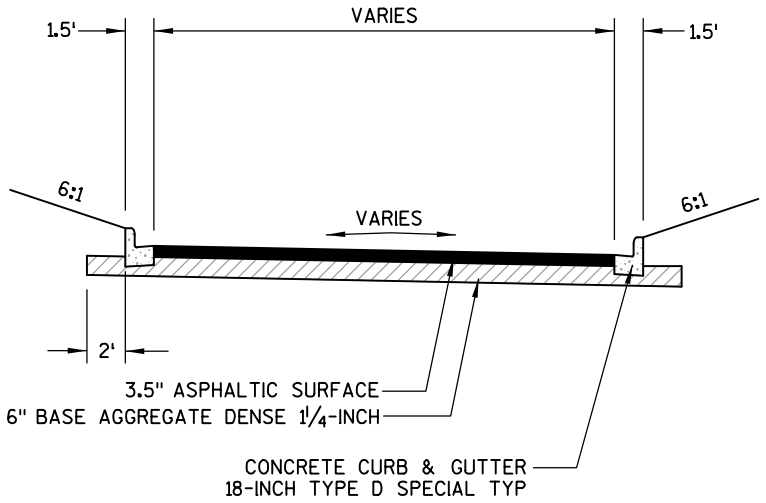
STA. 225+56'SB' TO STA. 229+46.78'SB'



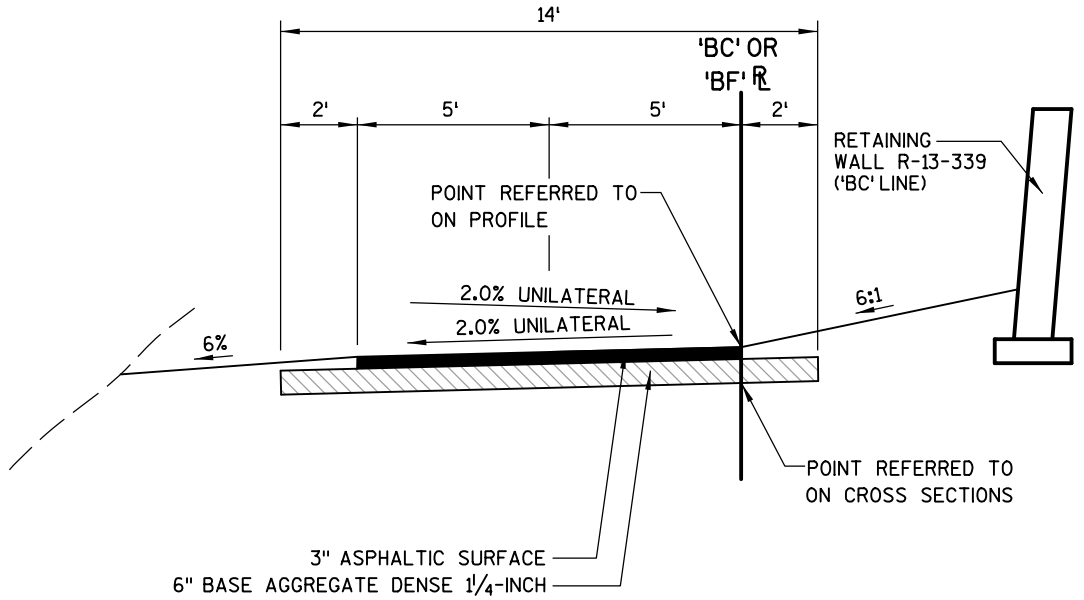
TYPICAL FINISHED HALF-SECTION - WB OFF-RAMP

STA. 196+19'WBF' TO STA. 197+58'WBF'

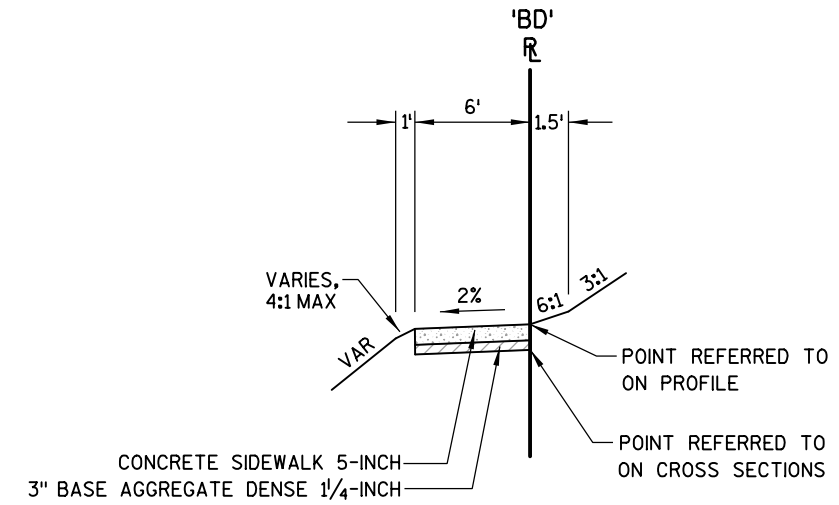
PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TYPICAL FINISHED SECTIONS	SHEET 17	E



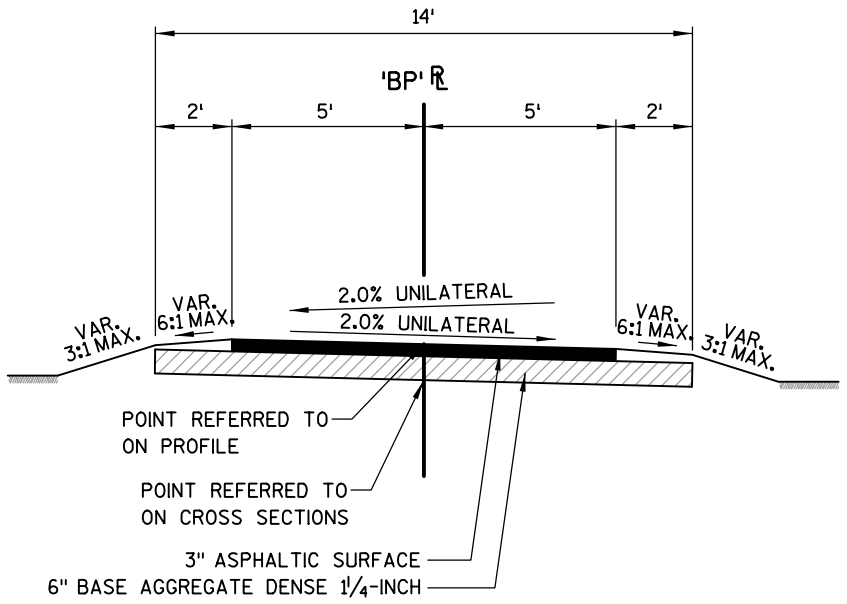
TYPICAL FINISHED SECTION - PARKING LOT



TYPICAL FINISHED SECTION - BIKE PATH 'BC' LINE & 'BF' LINE

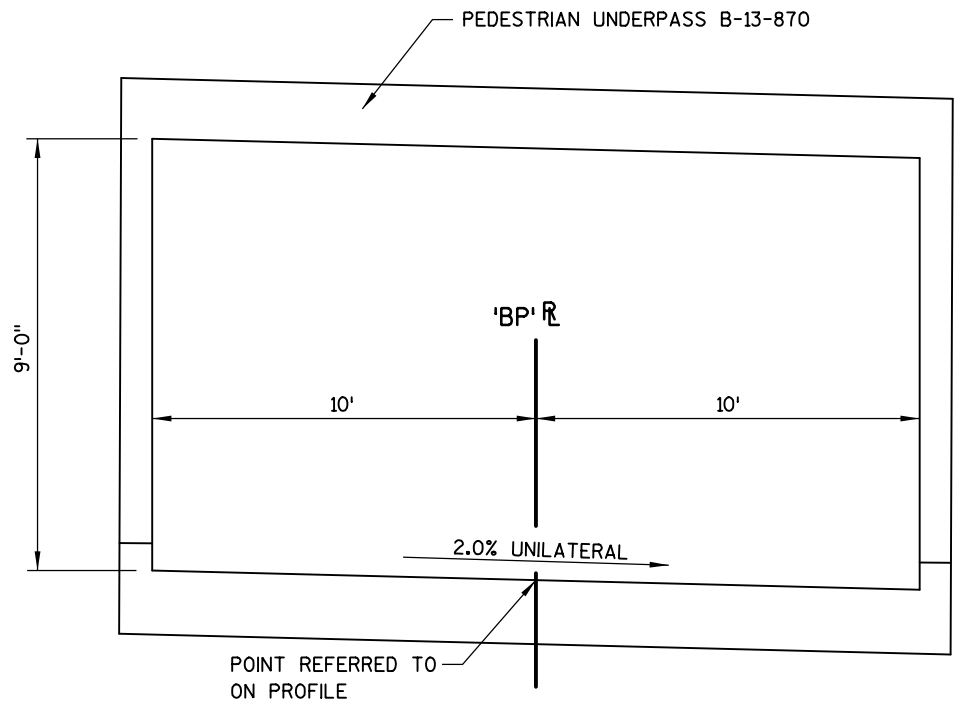


TYPICAL FINISHED SECTION - 'BD' LINE



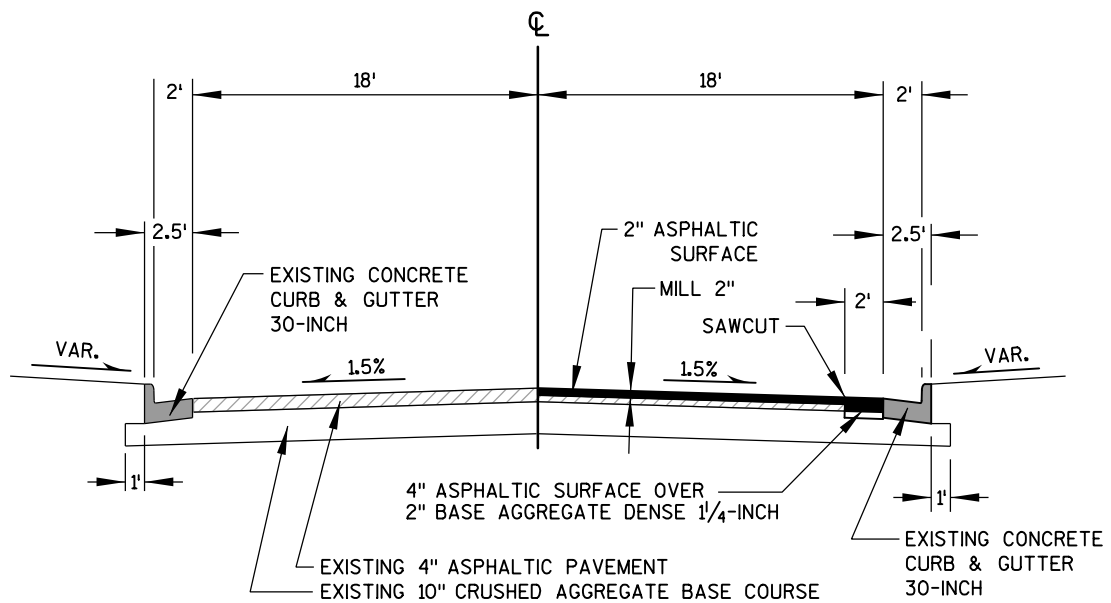
TYPICAL FINISHED SECTION - BIKE PATH 'BP' LINE

STA. 294+50'BP' TO STA. 295+18.32'BP'
STA. 298+24.47'BP' TO STA. 314+75.79'BP'



TYPICAL FINISHED SECTION - BIKE PATH 'BP' LINE

STA. 295+18.47'PB' TO STA. 298+24.47'BP'

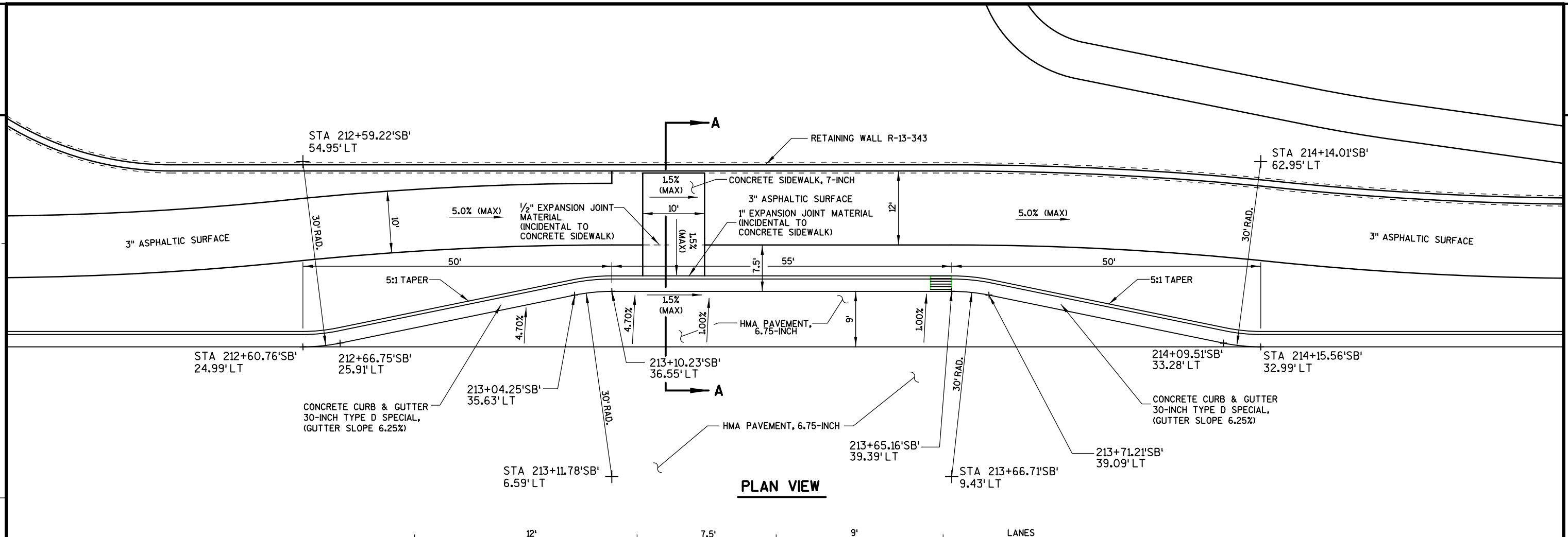


TYPICAL FINISHED SECTION - GRAND CANYON DRIVE

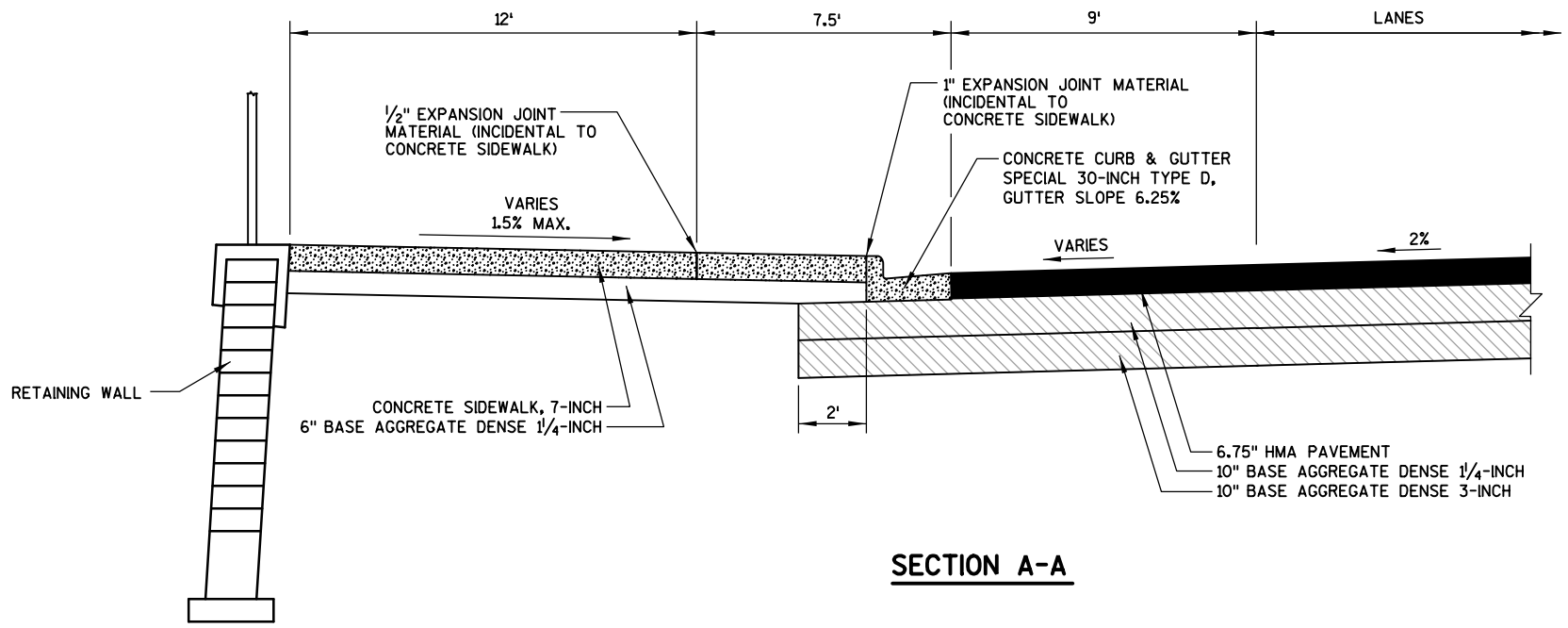
PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	TYPICAL FINISHED SECTIONS	SHEET 18	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\020321_PTS.dgn PLOT BY : dm253 PLOT DATE : 7/24/2019 PLOT SCALE : 1:200

WISDOT/CADDS SHEET 42



PLAN VIEW

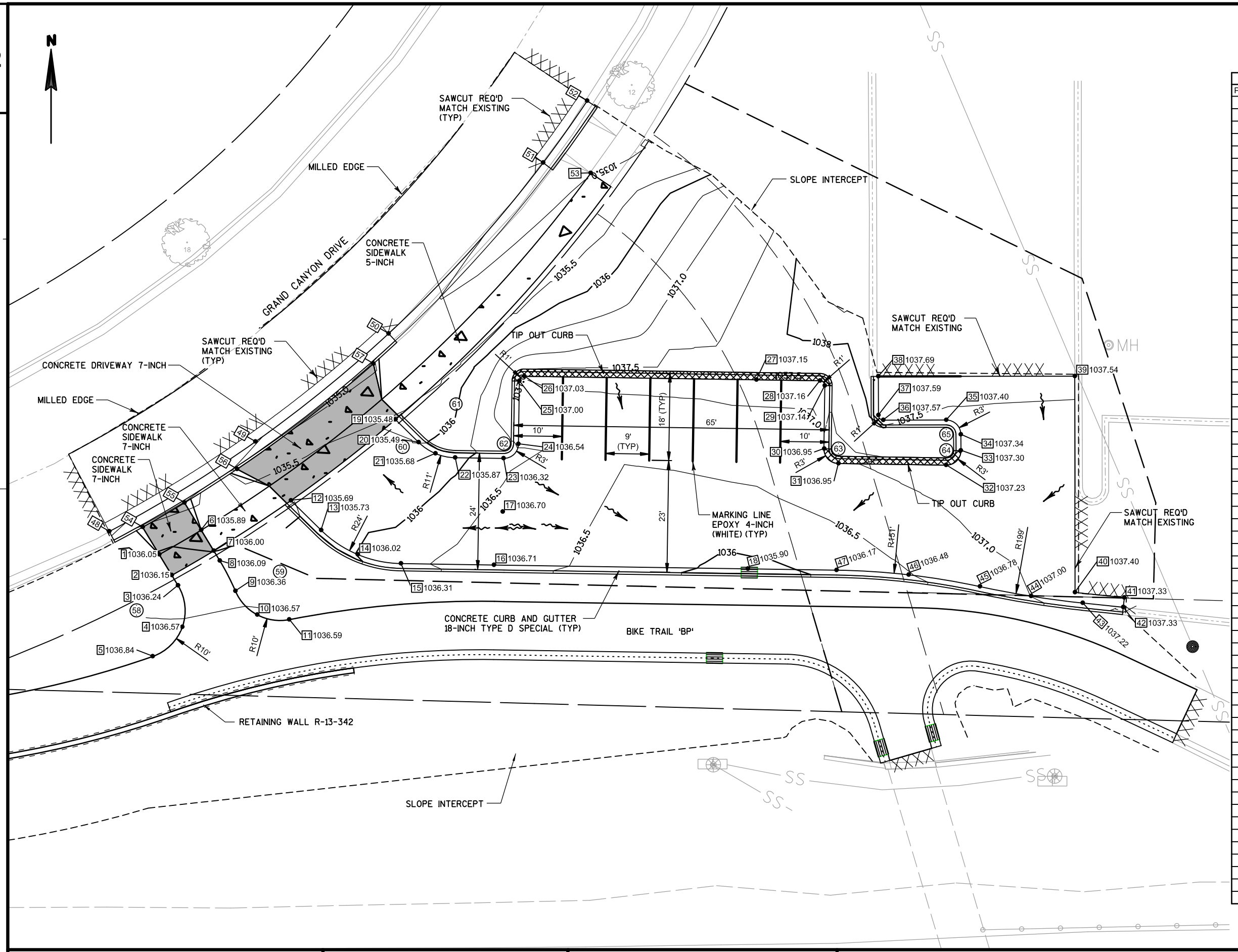


SECTION A-A

DETAIL FOR BUS PULLOUT AND BOARDING PAD

SB GAMMON ROAD, STA. 212+60'SB' TO STA. 214+16'SB' LT

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET 19	E

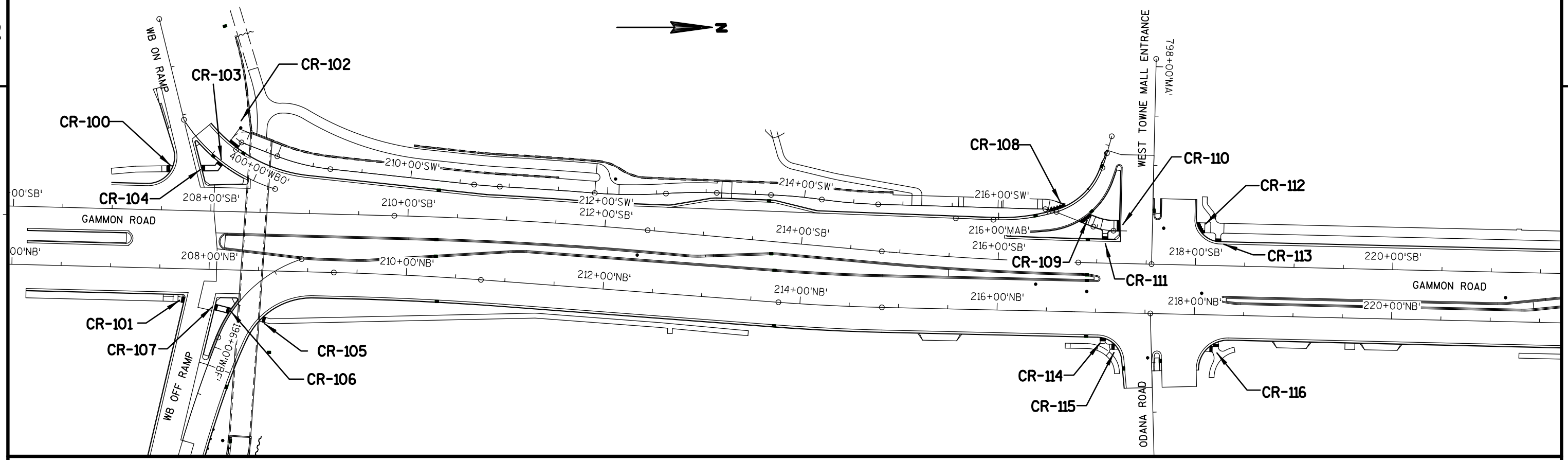


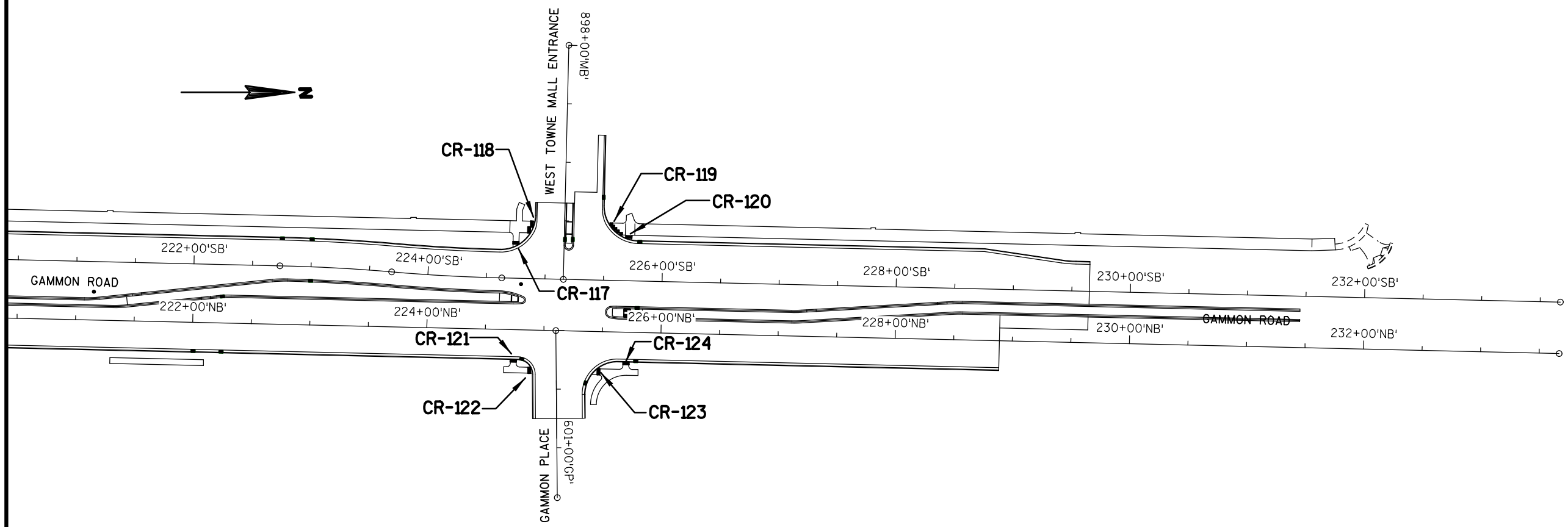
COORDINATE TABLE			
POINT NO.	NORTHING	EASTING	ELEVATION
1	475,186.912	791,001.191	1036.05
2	475,182.636	791,003.789	1036.15
3	475,180.521	791,005.074	1036.24
4	475,171.959	791,005.942	1036.57
5	475,165.893	790,999.837	1036.84
6	475,191.932	791,009.843	1035.89
7	475,187.659	791,012.438	1036.00
8	475,185.620	791,013.677	1036.09
9	475,179.366	791,016.896	1036.36
10	475,174.468	791,021.410	1036.57
11	475,173.491	791,027.999	1036.59
12	475,198.031	791,028.355	1035.69
13	475,191.915	791,034.583	1035.73
14	475,186.893	791,042.147	1036.02
15	475,185.041	791,051.035	1036.31
16	475,184.751	791,070.207	1036.71
17	475,195.724	791,072.036	1036.70
18	475,183.957	791,122.564	1035.90
19	475,214.727	791,049.887	1035.48
20	475,210.025	791,054.676	1035.49
21	475,207.723	791,058.143	1035.68
22	475,206.874	791,062.217	1035.87
23	475,206.723	791,072.202	1036.32
24	475,209.677	791,075.247	1036.54
25	475,222.676	791,075.444	1037.00
26	475,223.660	791,076.459	1037.03
27	475,222.934	791,124.343	1037.15
28	475,222.736	791,137.452	1037.16
29	475,221.721	791,138.437	1037.14
30	475,208.706	791,138.307	1036.95
31	475,205.676	791,141.262	1036.95
32	475,205.340	791,163.441	1037.23
33	475,208.343	791,166.486	1037.30
34	475,211.637	791,166.482	1037.34
35	475,214.633	791,163.478	1037.40
36	475,214.617	791,150.478	1037.57
37	475,215.616	791,149.477	1037.59
38	475,223.616	791,149.467	1037.69
39	475,223.667	791,189.989	1037.54
40	475,179.089	791,190.013	1037.40
41	475,178.021	791,200.171	1037.33
42	475,176.032	791,199.962	1037.33
43	475,176.911	791,191.603	1037.22
44	475,178.319	791,180.969	1037.00
45	475,180.299	791,170.426	1036.78
46	475,182.719	791,155.727	1036.48
47	475,183.680	791,140.861	1036.17
48	475,191.656	790,990.889	M.E.
49	475,210.163	791,021.020	M.E.
50	475,232.448	791,048.474	M.E.
51	475,267.691	791,080.351	M.E.
52	475,280.442	791,089.419	M.E.
53	475,265.530	791,090.163	M.E.
54	475,192.546	790,997.770	M.E.
55	475,197.580	791,006.412	M.E.
56	475,204.505	791,017.229	M.E.
57	475,226.246	791,045.345	M.E.
58	475,175.329	790,996.527	10' R
59	475,183.307	791,026.087	10' R
60	475,209.038	791,051.399	24' R
61	475,217.873	791,062.383	11' R
62	475,209.722	791,072.248	3' R
63	475,208.677	791,141.240	3' R
64	475,208.339	791,163.486	3' R
65	475,211.633	791,163.486	3' R

PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	PARKING LOT DETAILS	SHEET 20	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\021002_CD.dgn PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:20

WISDOT/CADDS SHEET 42



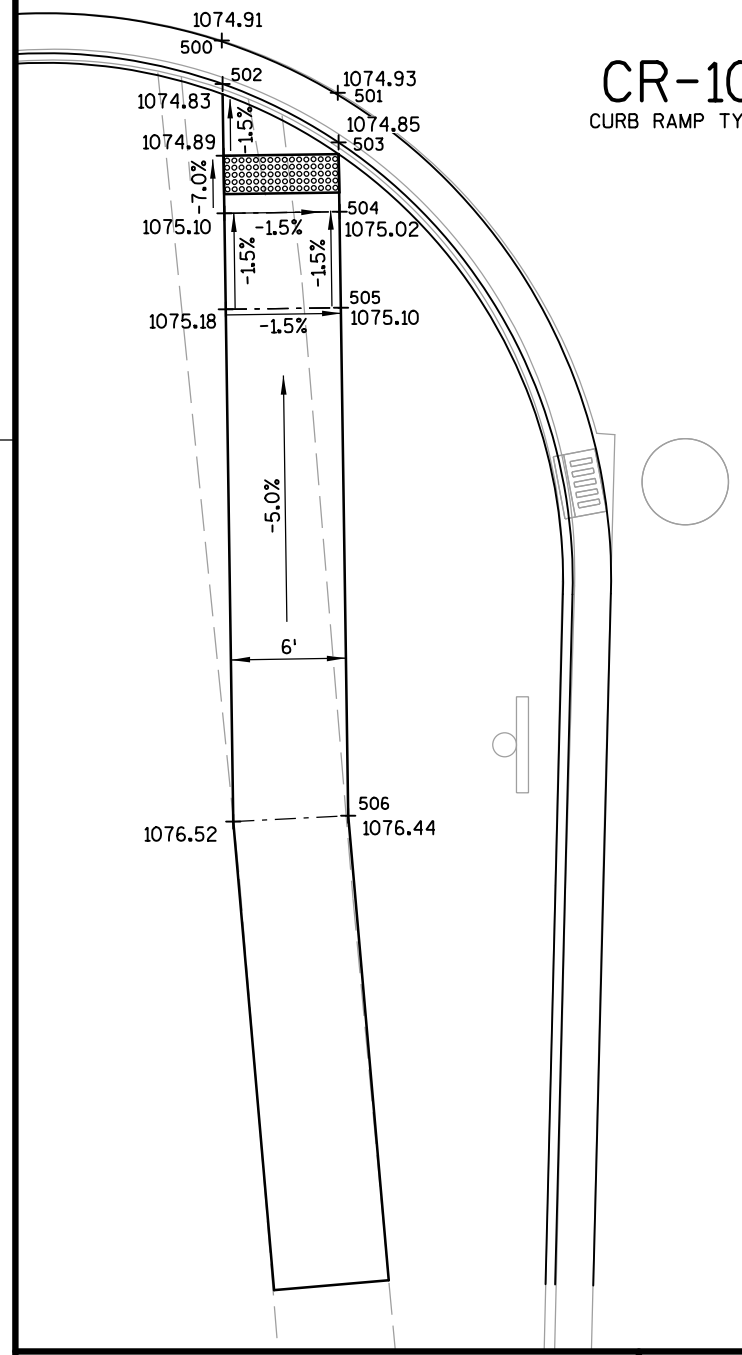


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CURB RAMP DETAILS	SCALE, FEET 0 50 100	SHEET 21	E

2

WB ON RAMP

PT.	STA.	OFFSET	Y	X
500	207+63.09'SB'	45.10 LT	475236.806	789313.496
501	207+60.46'SB'	39.00 LT	475234.030	789319.537
502	207+60.88'SB'	45.02 LT	475234.596	789313.528
503	207+57.99'SB'	38.90 LT	475231.552	789319.573
504	207+54.38'SB'	38.75 LT	475227.942	789319.625
505	207+49.38'SB'	38.55 LT	475222.943	789319.697
506	207+22.92'SB'	37.50 LT	475196.459	789320.080



CR-100
CURB RAMP TYPE 4B1

207+75'SB'

207+50'SB'

GAMMON ROAD

207+25'SB'

207+00'SB'

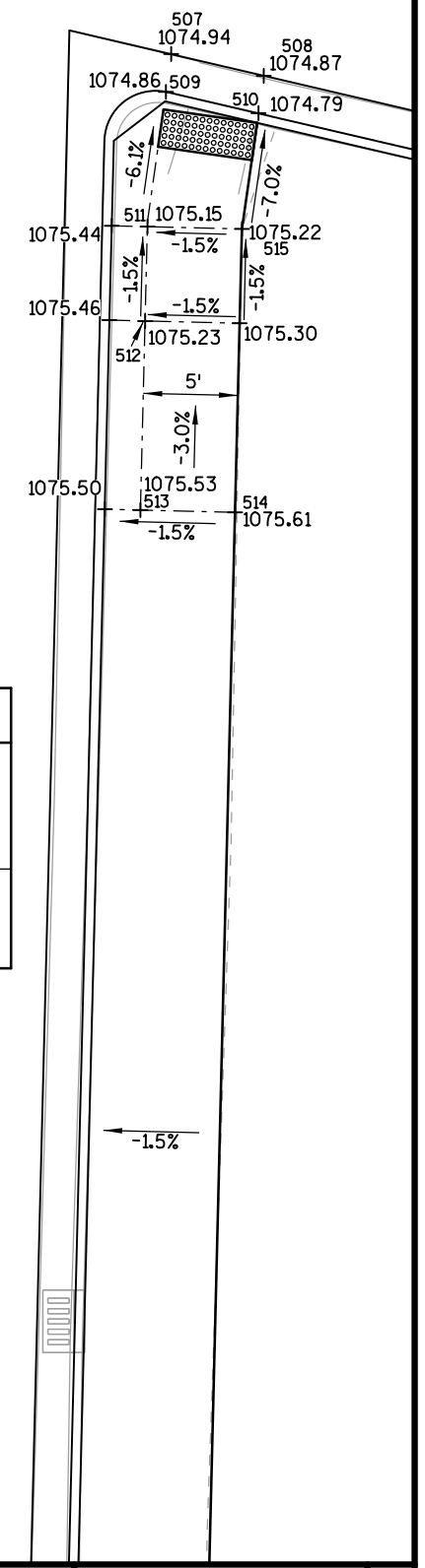
N

207+75'NB'

207+50'NB'

WB OFF RAMP

CR-101
CURB RAMP TYPE 4B1 MODIFIED



PT.	STA.	OFFSET	Y	X
507	207+78.32'NB'	29.42 RT	475248.458	789447.356
508	207+77.30'NB'	34.35 RT	475247.312	789452.259
509	207+76.32'NB'	29.19 RT	475246.463	789447.082
510	207+75.31'NB'	34.11 RT	475245.324	789451.975
511	207+69.17'NB'	28.40 RT	475239.335	789446.104
512	207+64.17'NB'	28.40 RT	475234.337	789445.982
513	207+54.17'NB'	28.41 RT	475224.340	789445.737
514	207+54.18'NB'	33.41 RT	475224.217	789450.736
515	207+69.18'NB'	33.40 RT	475239.213	789451.103

-1.5%

207+25'NB'

207+00'NB'

2

PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CURB RAMP DETAILS	SCALE, FEET 0 5 10	SHEET 22	E

2

PT.	STA.	OFFSET	Y	X
516	208+14.56'SW'	10.00 LT	475290.379	789291.306
517	208+16.56'SW'	10.00 LT	475291.564	789289.689
518	399+55.17'WBO'	27.27 LT	475295.871	789283.813
519	399+54.32'WBO'	36.61 LT	475301.410	789276.256
520	208+27.86'SW'	12.00 LT	475312.121	789280.389
521	208+14.22'SW'	0.00 RT	475298.247	789297.487
522	208+16.22'SW'	0.00 RT	475299.429	789295.874
523	208+23.49'SW'	0.00 RT	475303.726	789290.012
524	208+27.86'SW'	0.00 RT	475307.801	789291.585
525	208+34.04'SW'	12.00 LT	475317.893	789282.617
526	208+34.00'SW'	0.00 RT	475313.531	789293.796

PT.	STA.	OFFSET	Y	X
527	399+59.69'WBO'	0.00 RT	475281.717	789307.485
528	399+64.69'WBO'	0.00 RT	475285.661	789310.558
529	399+59.72'WBO'	2.00 RT	475280.485	789309.061
530	399+64.66'WBO'	2.00 RT	475284.430	789312.134
531	399+59.79'WBO'	7.51 RT	475277.090	789313.407
532	399+64.57'WBO'	7.52 RT	475281.030	789316.485
533	399+62.78'WBO'	11.40 RT	475277.162	789318.413
534	399+54.45'WBO'	12.30 RT	475269.688	789313.482
535	399+57.48'WBO'	16.12 RT	475269.739	789318.520
536	399+49.51'WBO'	17.13 RT	475262.457	789313.556
537	399+53.38'WBO'	20.05 RT	475263.740	789318.593
538	399+48.15'WBO'	18.54 RT	475260.399	789313.577
539	399+52.02'WBO'	21.42 RT	475261.681	789318.614

CR-102
CURB RAMP TYPE 3

CR-103
CURB RAMP TYPE 5 MODIFIED

CR-104
CURB RAMP TYPE 5 MODIFIED

GAMMON ROAD

WB ON RAMP

208+50'SW'

208+50'SB'

400+00'WBO'

399+75'WBO'

399+50'WBO'

399+25'WBO'

399+00'WBO'

208+00'SB'

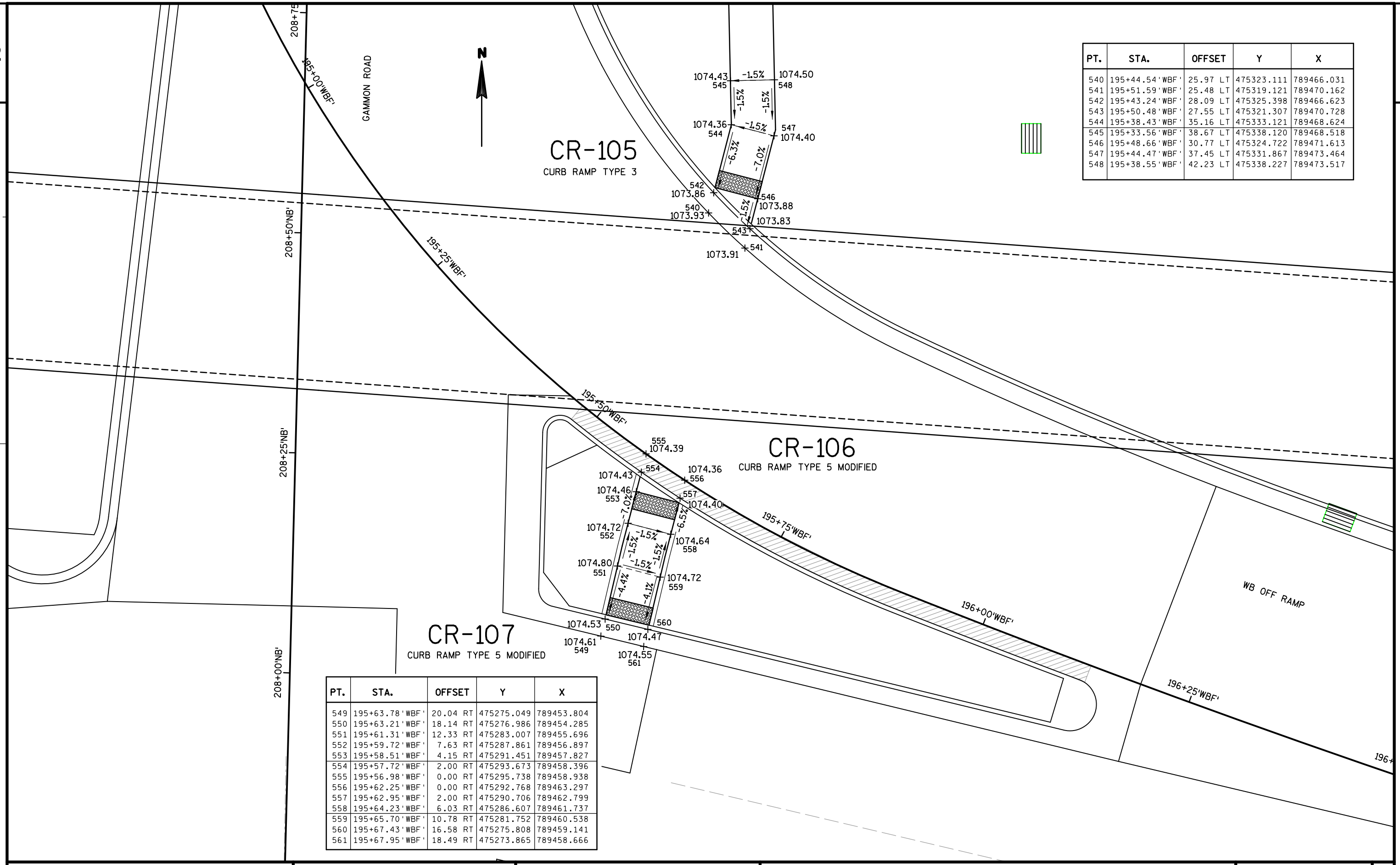
207+75'SB'

400+2

N

PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CURB RAMP DETAILS	SCALE, FEET 0 5 10

SHEET 23 E



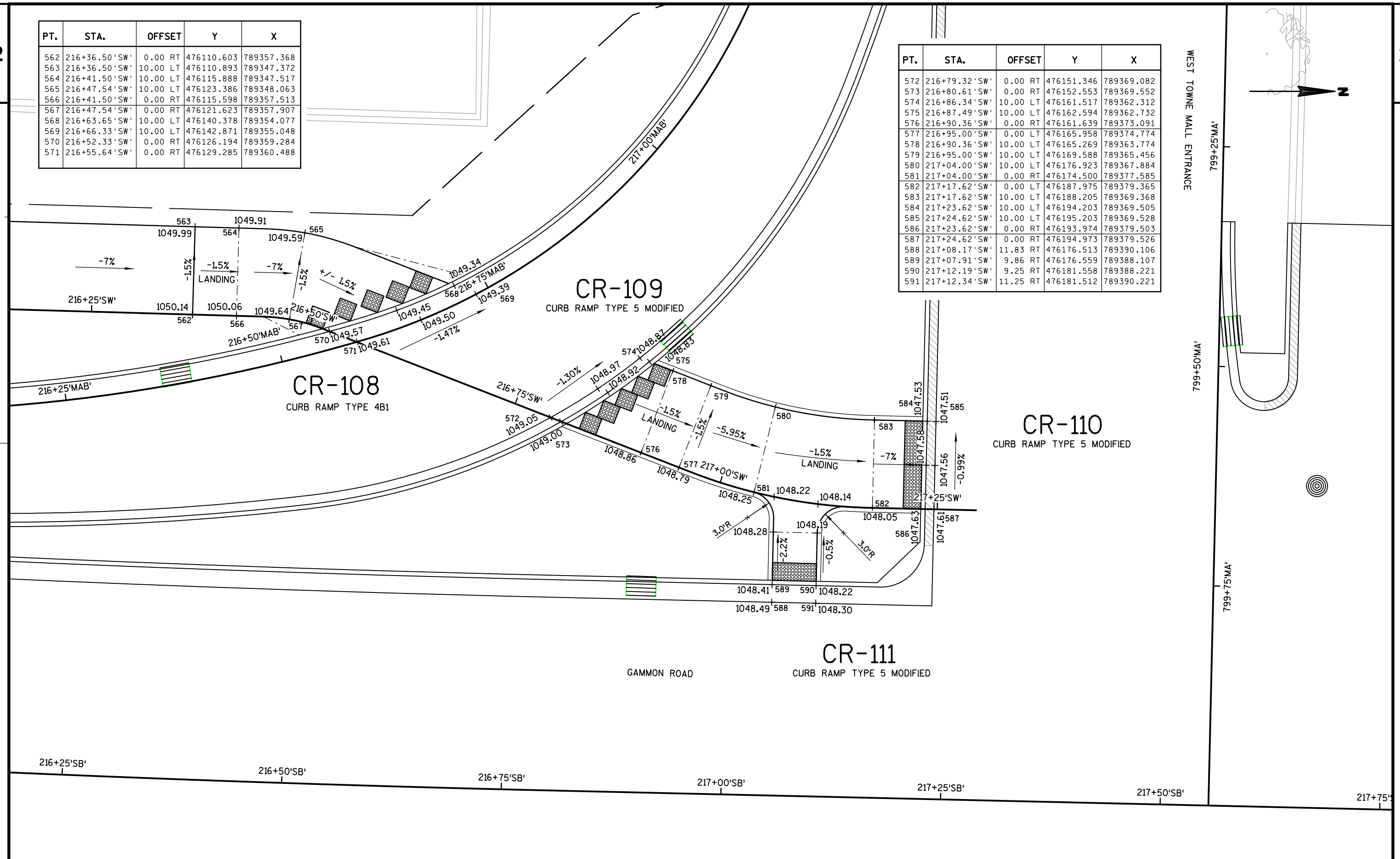
PT.	STA.	OFFSET	Y	X
540	195+44.54'WBF'	25.97 LT	475323.111	789466.031
541	195+51.59'WBF'	25.48 LT	475319.121	789470.162
542	195+43.24'WBF'	28.09 LT	475325.398	789466.623
543	195+50.48'WBF'	27.55 LT	475321.307	789470.728
544	195+38.43'WBF'	35.16 LT	475333.121	789468.624
545	195+33.56'WBF'	38.67 LT	475338.120	789468.518
546	195+48.66'WBF'	30.77 LT	475324.722	789471.613
547	195+44.47'WBF'	37.45 LT	475331.867	789473.464
548	195+38.55'WBF'	42.23 LT	475338.227	789473.517

PT.	STA.	OFFSET	Y	X
549	195+63.78'WBF'	20.04 RT	475275.049	789453.804
550	195+63.21'WBF'	18.14 RT	475276.986	789454.285
551	195+61.31'WBF'	12.33 RT	475283.007	789455.696
552	195+59.72'WBF'	7.63 RT	475287.861	789456.897
553	195+58.51'WBF'	4.15 RT	475291.451	789457.827
554	195+57.72'WBF'	2.00 RT	475293.673	789458.396
555	195+56.98'WBF'	0.00 RT	475295.738	789458.938
556	195+62.25'WBF'	0.00 RT	475292.768	789463.297
557	195+62.95'WBF'	2.00 RT	475290.706	789462.799
558	195+64.23'WBF'	6.03 RT	475286.607	789461.737
559	195+65.70'WBF'	10.78 RT	475281.752	789460.538
560	195+67.43'WBF'	16.58 RT	475275.808	789459.141
561	195+67.95'WBF'	18.49 RT	475273.865	789458.666

PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CURB RAMP DETAILS	SCALE, FEET 0 5 10	SHEET 24	E

PT.	STA.	OFFSET	Y	X
562	216+36.50'SW'	0.00 RT	476110.603	789357.368
563	216+36.50'SW'	10.00 LT	476110.893	789347.372
564	216+41.50'SW'	10.00 LT	476115.888	789347.517
565	216+47.54'SW'	10.00 LT	476123.386	789348.063
566	216+41.50'SW'	0.00 RT	476115.598	789357.513
567	216+47.54'SW'	0.00 RT	476121.623	789357.907
568	216+63.65'SW'	10.00 LT	476140.378	789354.077
569	216+66.33'SW'	10.00 LT	476142.871	789355.048
570	216+52.33'SW'	0.00 RT	476126.194	789359.284
571	216+55.64'SW'	0.00 RT	476129.285	789360.488

PT.	STA.	OFFSET	Y	X
572	216+79.32'SW'	0.00 RT	476151.346	789369.082
573	216+80.61'SW'	0.00 RT	476152.553	789369.552
574	216+86.34'SW'	10.00 LT	476161.517	789362.312
575	216+87.49'SW'	10.00 LT	476162.594	789362.732
576	216+90.36'SW'	0.00 RT	476161.639	789373.091
577	216+95.00'SW'	0.00 LT	476165.958	789374.774
578	216+90.36'SW'	10.00 LT	476165.269	789363.774
579	216+95.00'SW'	10.00 LT	476169.588	789365.456
580	217+04.00'SW'	10.00 LT	476176.923	789367.884
581	217+04.00'SW'	0.00 RT	476174.500	789377.585
582	217+17.62'SW'	0.00 LT	476187.975	789379.365
583	217+17.62'SW'	10.00 LT	476188.205	789369.368
584	217+23.62'SW'	10.00 LT	476194.203	789369.505
585	217+24.62'SW'	10.00 LT	476195.203	789369.528
586	217+23.62'SW'	0.00 RT	476193.974	789379.503
587	217+24.62'SW'	0.00 RT	476194.973	789379.526
588	217+08.17'SW'	11.83 RT	476176.513	789390.106
589	217+07.91'SW'	9.86 RT	476176.559	789388.107
590	217+12.19'SW'	9.25 RT	476181.558	789388.221
591	217+12.34'SW'	11.25 RT	476181.512	789390.221



PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CURB RAMP DETAILS	SCALE, FEET 0 5 10	SHEET 25	E

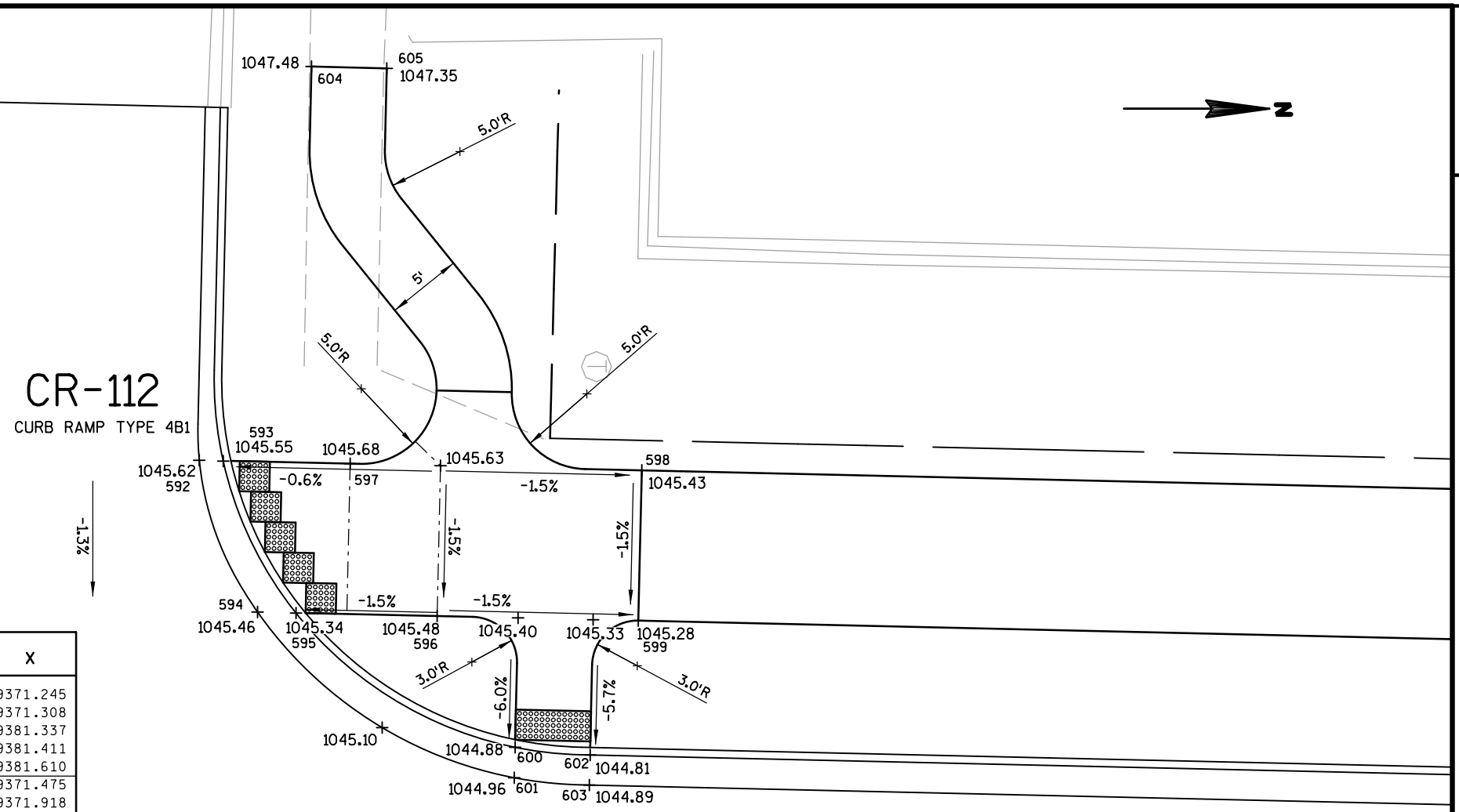
2

WEST TOWNE MALL ENTRANCE

799+50'MA'

799+75'MA'

'SW'



PT.	STA.	OFFSET	Y	X
592	217+98.65'SB'	43.00 LT	476270.328	789371.245
593	218+00.24'SB'	42.97 LT	476271.920	789371.308
594	218+02.75'SB'	33.00 LT	476274.206	789381.337
595	218+05.31'SB'	32.98 LT	476276.757	789381.411
596	218+14.68'SB'	33.00 LT	476286.132	789381.610
597	218+08.68'SB'	43.00 LT	476280.362	789371.475
598	218+28.07'SB'	43.00 LT	476299.740	789371.918
599	218+28.07'SB'	33.00 LT	476299.511	789381.916
600	218+20.07'SB'	24.40 LT	476291.317	789390.334
601	218+20.07'SB'	22.37 LT	476291.270	789392.363
602	218+25.07'SB'	24.00 LT	476296.306	789390.845
603	218+25.07'SB'	22.00 LT	476296.260	789392.844
604	218+05.51'SB'	69.34 LT	476277.787	789345.072
605	218+10.51'SB'	69.34 LT	476282.786	789345.187

GAMMON ROAD

5'SB'

217+50'SB'

217+75'SB'

218+00'SB'

218+25'SB'

218+50'SB'

218+75'SB'

2

PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CURB RAMP DETAILS	SCALE, FEET 0 5 10	SHEET 26	E

216+50'NB' 216+75'NB' 217+00'NB' 217+25'NB' 217+50'NB' 217+75'NB'

2

N

GAMMON ROAD

CR-114
CURB RAMP TYPE 3

1048.59 606 607 1048.39
1048.51 609 608 1048.29
1048.49 610
2.0'R
-4.2%
-2.2%
1048.12
1048.19 612 613 1047.85 614 1047.89 615
1050.65 620 -1.5% 1050.57 621 -1.5% -8.0%
622 611 1048.28 +/-1.5%
1048.27
-5.9%
-1.5% -1.5% -1.5% -1.5%
1048.04 618 -7.0% -1.5% 617 1047.76
1047.78 619 1047.71 616
1048.08 623
2.0'R
-0.75%
624
625

CR-115
CURB RAMP TYPE 3

500+25'OD'
500+50'OD'
500+75'OD'
ODANA ROAD

PT.	STA.	OFFSET	Y	X
606	217+05.29'NB'	23.12 RT	476174.339	789485.197
607	217+10.29'NB'	24.06 RT	476179.316	789486.258
608	217+10.29'NB'	26.15 RT	476179.269	789488.346
609	217+05.29'NB'	25.13 RT	476174.293	789487.206
610	217+05.29'NB'	26.68 RT	476174.258	789488.757
611	217+05.29'NB'	31.58 RT	476174.146	789493.655
612	217+10.74'NB'	30.58 RT	476179.614	789492.779
613	217+14.77'NB'	32.00 RT	476183.618	789494.296
614	217+20.14'NB'	32.00 RT	476188.982	789494.419
615	217+22.91'NB'	32.00 RT	476191.756	789494.482
616	217+24.14'NB'	37.00 RT	476192.871	789499.509
617	217+26.45'NB'	37.00 RT	476195.181	789499.562
618	217+15.79'NB'	37.28 RT	476184.510	789499.593
619	217+19.41'NB'	37.00 RT	476188.139	789499.401
620	216+70.00'NB'	32.05 RT	476138.853	789493.322
621	216+75.00'NB'	32.04 RT	476143.852	789493.426
622	217+02.71'NB'	33.49 RT	476171.526	789495.511
623	217+15.49'NB'	40.51 RT	476184.142	789502.824
624	500+57.98'OD'	32.92 RT	476193.627	789522.031
625	500+60.02'OD'	32.92 RT	476193.685	789524.071

PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CURB RAMP DETAILS	SCALE, FEET 0 5 10	SHEET 27	E

GAMMON ROAD

2

2

N

217+50'NB'

217+75'NB'

218+00'NB'

218+25'NB'

218+50'NB'

218+75'NB'

500+25.00'

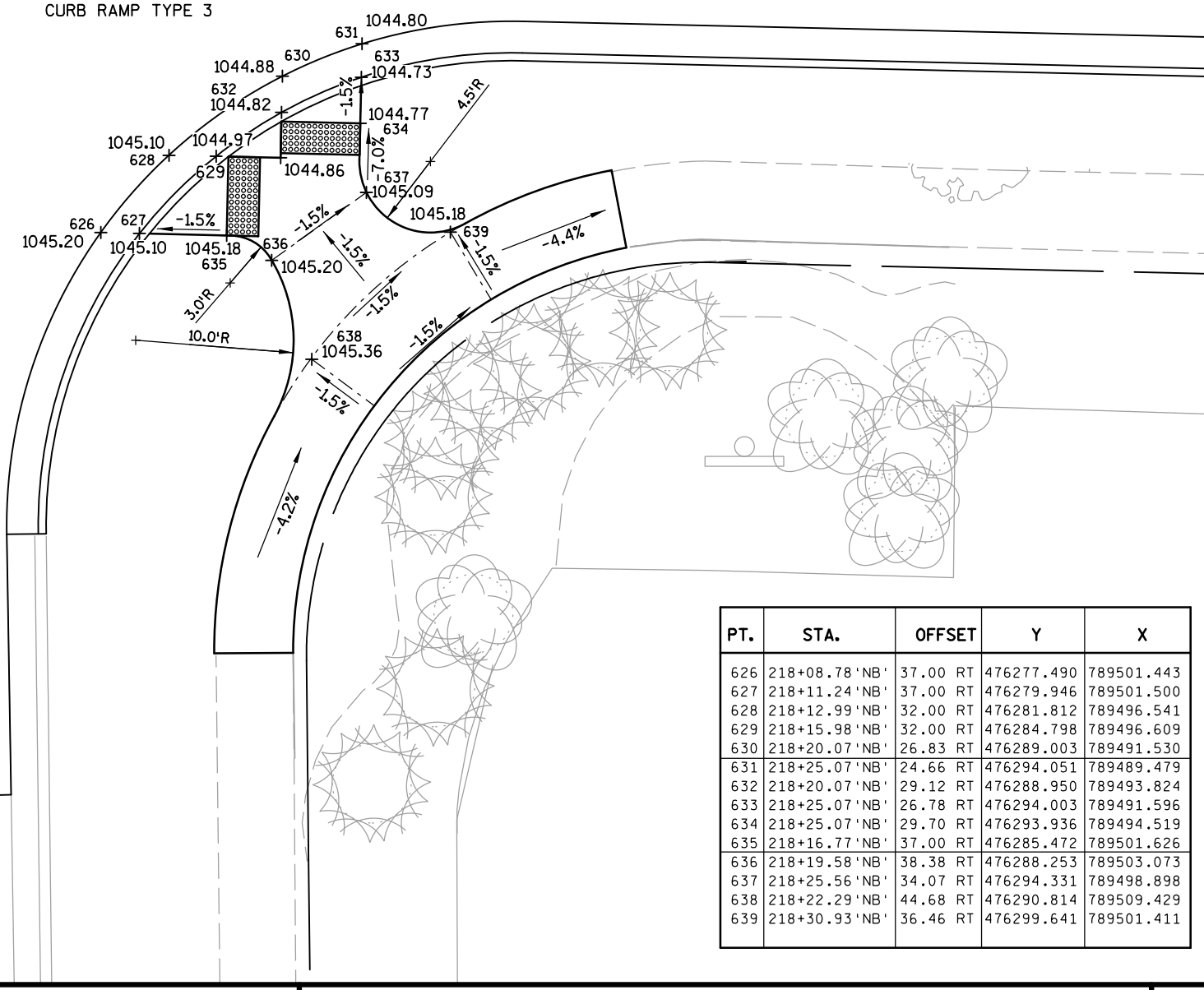
500+50.00'

500+75.00'

ODANA ROAD

CR-116

CURB RAMP TYPE 3



PT.	STA.	OFFSET	Y	X
626	218+08.78'NB'	37.00 RT	476277.490	789501.443
627	218+11.24'NB'	37.00 RT	476279.946	789501.500
628	218+12.99'NB'	32.00 RT	476281.812	789496.541
629	218+15.98'NB'	32.00 RT	476284.798	789496.609
630	218+20.07'NB'	26.83 RT	476289.003	789491.530
631	218+25.07'NB'	24.66 RT	476294.051	789489.479
632	218+20.07'NB'	29.12 RT	476288.950	789493.824
633	218+25.07'NB'	26.78 RT	476294.003	789491.596
634	218+25.07'NB'	29.70 RT	476293.936	789494.519
635	218+16.77'NB'	37.00 RT	476285.472	789501.626
636	218+19.58'NB'	38.38 RT	476288.253	789503.073
637	218+25.56'NB'	34.07 RT	476294.331	789498.898
638	218+22.29'NB'	44.68 RT	476290.814	789509.429
639	218+30.93'NB'	36.46 RT	476299.641	789501.411

PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CURB RAMP DETAILS	SCALE, FEET 0 5 10	SHEET 28	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\021003_CD.dgn

PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:10

WISDOT/CADDS SHEET 42

2

N

WEST TOWNE MALL ENTRANCE

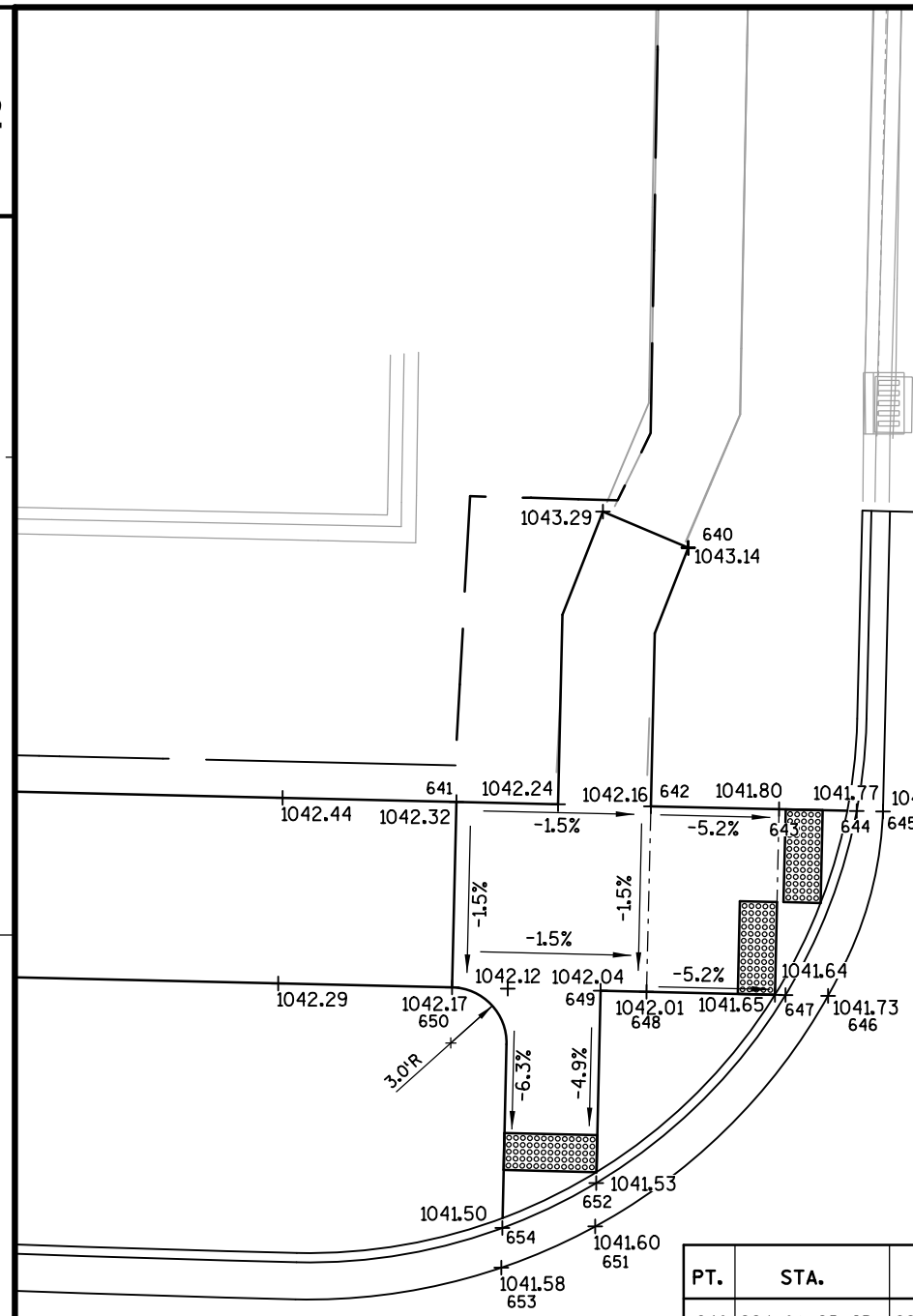
899+25'WAB'

899+50'WAB'

899+75'WAB'

GAMMON ROAD

conc wall



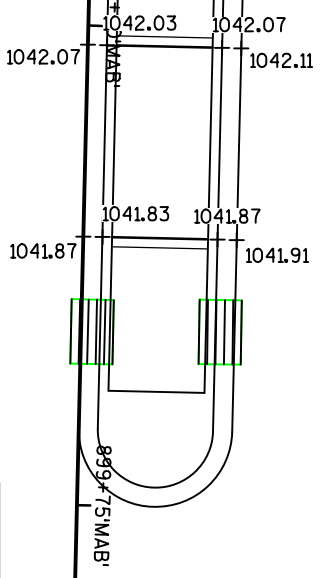
CR-117

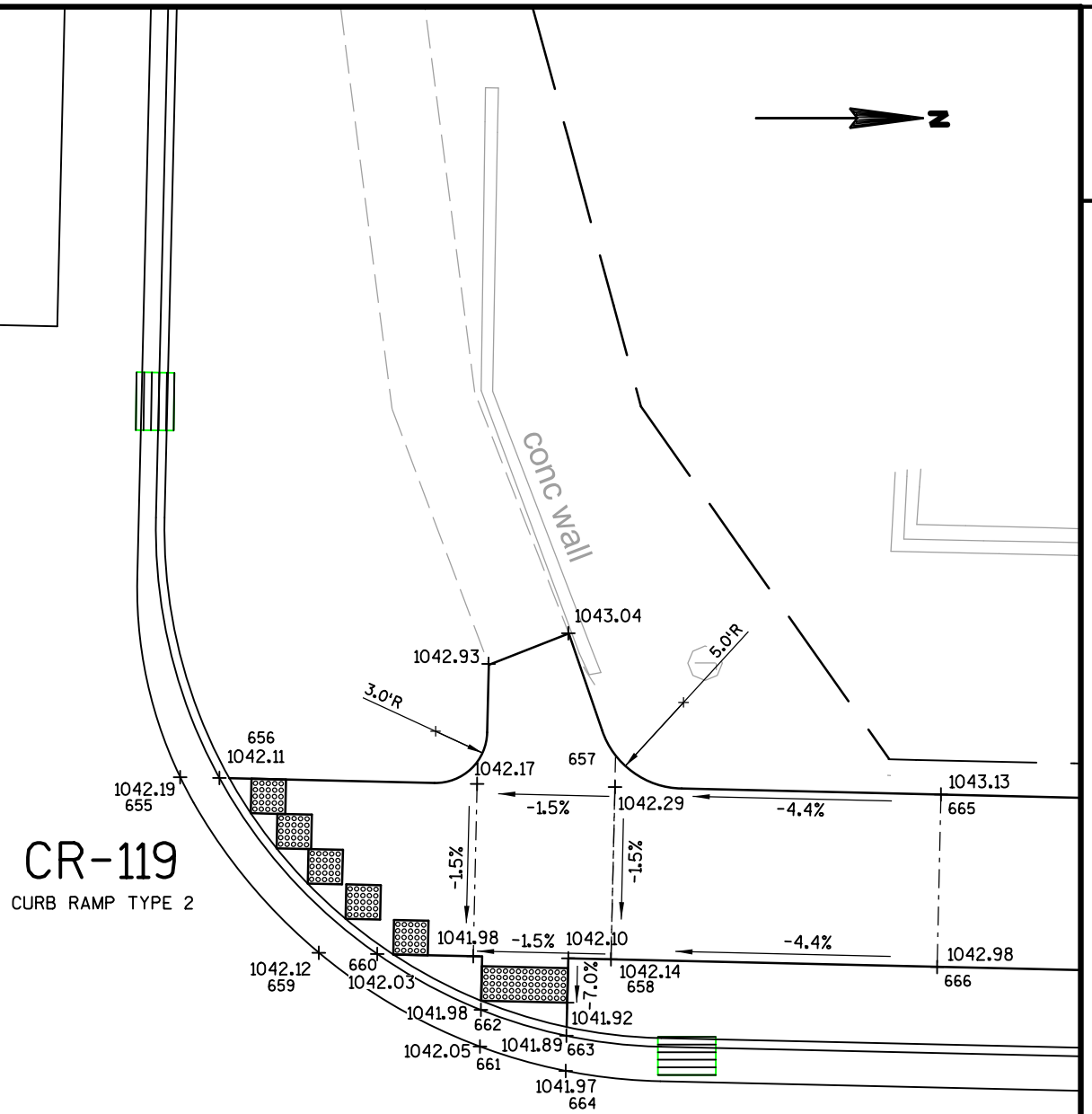
CURB RAMP TYPE 2

PT.	STA.	OFFSET	Y	X
640	224+81.25'SB'	62.98 LT	476952.947	789372.873
641	224+69.07'SB'	49.00 LT	476940.444	789386.567
642	224+79.55'SB'	49.00 LT	476950.922	789386.807
643	224+86.46'SB'	49.00 LT	476957.836	789386.965
644	224+90.64'SB'	49.00 LT	476962.014	789387.060
645	224+92.06'SB'	49.00 LT	476963.428	789387.093
646	224+89.33'SB'	39.00 LT	476960.472	789397.028
647	224+87.04'SB'	39.00 LT	476958.186	789396.975
648	224+79.55'SB'	39.00 LT	476950.694	789396.804
649	224+77.07'SB'	39.00 LT	476948.214	789396.747
650	224+69.07'SB'	39.00 LT	476940.216	789396.565
651	224+77.07'SB'	26.29 LT	476947.923	789409.453
652	224+77.07'SB'	28.63 LT	476947.976	789407.118
653	224+72.07'SB'	23.95 LT	476942.871	789411.676
654	224+72.07'SB'	26.09 LT	476942.920	789409.537

CR-118

CURB RAMP TYPE 2





CR-119

CURB RAMP TYPE 2

PT.	STA.	OFFSET	Y	X
655	225+50.53'SB'	49.00 LT	477021.890	789388.429
656	225+52.80'SB'	49.00 LT	477024.162	789388.481
657	225+75.76'SB'	49.00 LT	477047.116	789389.006
658	225+75.76'SB'	39.00 LT	477046.887	789399.003
659	225+58.81'SB'	39.00 LT	477029.938	789398.616
660	225+62.20'SB'	39.00 LT	477033.329	789398.693
661	225+68.29'SB'	33.77 LT	477039.291	789404.059
662	225+68.29'SB'	35.90 LT	477039.339	789401.934
663	225+73.29'SB'	34.51 LT	477044.306	789403.437
664	225+73.29'SB'	32.48 LT	477044.260	789405.469
665	225+94.70'SB'	49.00 LT	477066.043	789389.439
666	225+94.70'SB'	39.00 LT	477065.814	789399.436

CR-120

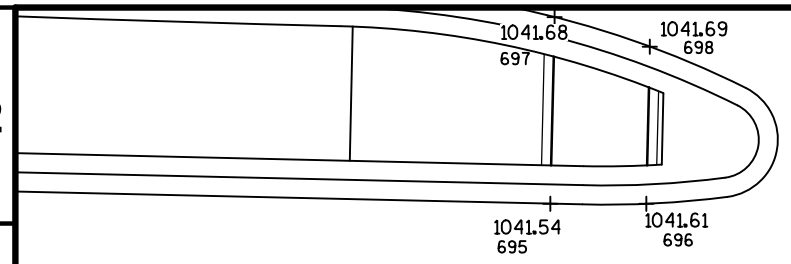
CURB RAMP TYPE 2

224+50'SB' 224+75'SB' 225+00'SB' 225+25'SB' 225+50'SB' 225+75'SB' 226+00'SB'

PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CURB RAMP DETAILS	SCALE, FEET 0 5 10	SHEET 29	E

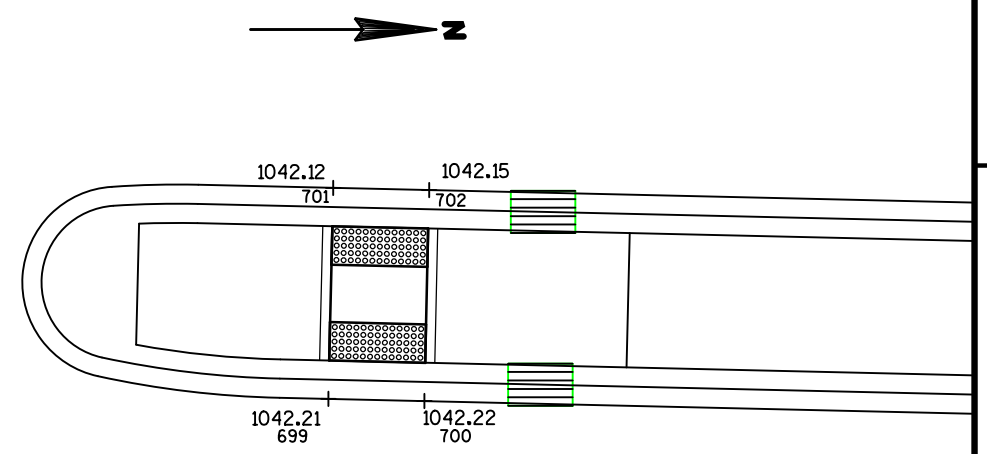
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WISDOT/CADDS SHEET 42



CURB RAMP TYPE 5

PT.	STA.	OFFSET	Y	X
667	224+71.94'NB'	23.00 RT	476940.792	789502.605
668	224+71.94'NB'	25.00 RT	476940.746	789504.605
669	224+76.94'NB'	23.00 RT	476945.791	789502.720
670	224+76.94'NB'	25.00 RT	476945.745	789504.719
671	224+71.94'NB'	31.81 RT	476940.591	789511.412
672	224+76.94'NB'	31.82 RT	476945.589	789511.535
673	224+92.08'NB'	31.84 RT	476960.723	789511.908
674	224+93.35'NB'	36.85 RT	476961.885	789516.938
675	224+89.85'NB'	31.84 RT	476958.493	789511.853
676	224+91.35'NB'	36.84 RT	476959.879	789516.888
677	224+89.27'NB'	36.84 RT	476957.798	789516.837
678	224+82.49'NB'	31.83 RT	476951.138	789511.672
679	224+82.48'NB'	36.83 RT	476951.014	789516.670
680	224+66.41'NB'	31.80 RT	476935.068	789511.276
695	224+71.94'NB'	22.00 LT	476941.821	789457.617
696	224+76.94'NB'	22.11 LT	476946.822	789457.622
697	224+71.94'NB'	31.73 LT	476942.043	789447.890
698	224+76.94'NB'	30.30 LT	476947.009	789449.432



CURB RAMP TYPE 5

GAMMON ROAD

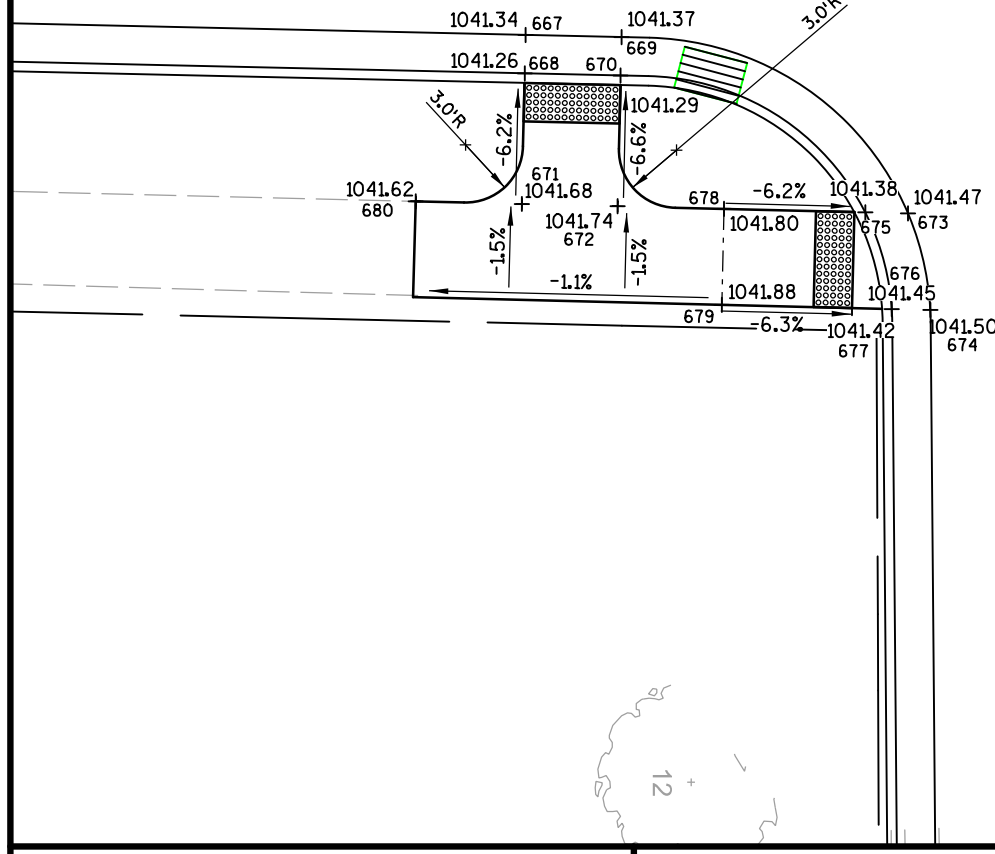
224+50'NB' 224+75'NB' 225+00'NB' 225+25'NB'

PT.	STA.	OFFSET	Y	X
681	225+38.64'NB'	36.83 RT	477007.161	789517.957
682	225+41.06'NB'	36.83 RT	477009.575	789518.007
683	225+42.66'NB'	31.82 RT	477011.297	789513.041
684	225+45.60'NB'	31.81 RT	477014.236	789513.101
685	225+46.39'NB'	36.81 RT	477014.910	789518.116
686	225+53.60'NB'	31.80 RT	477022.235	789513.265
687	225+68.16'NB'	31.76 RT	477036.787	789513.563
688	225+68.16'NB'	25.00 RT	477036.941	789506.804
689	225+68.16'NB'	23.00 RT	477036.987	789504.805
690	225+73.16'NB'	23.00 RT	477041.986	789504.919
691	225+73.16'NB'	25.00 RT	477041.940	789506.919
692	225+73.16'NB'	31.75 RT	477041.786	789513.666
693	225+81.17'NB'	31.73 RT	477049.791	789513.830
694	600+63.32'OD'	29.07 LT	477009.200	789543.561
699	225+68.16'NB'	11.00 LT	477037.766	789470.814
700	225+73.16'NB'	11.00 LT	477042.764	789470.928
701	225+68.16'NB'	22.00 LT	477038.017	789459.817
702	225+73.16'NB'	22.00 LT	477043.016	789459.931

225+75'NB' 226+00'N

CR-121

CURB RAMP TYPE 3



CR-122

CURB RAMP TYPE 2

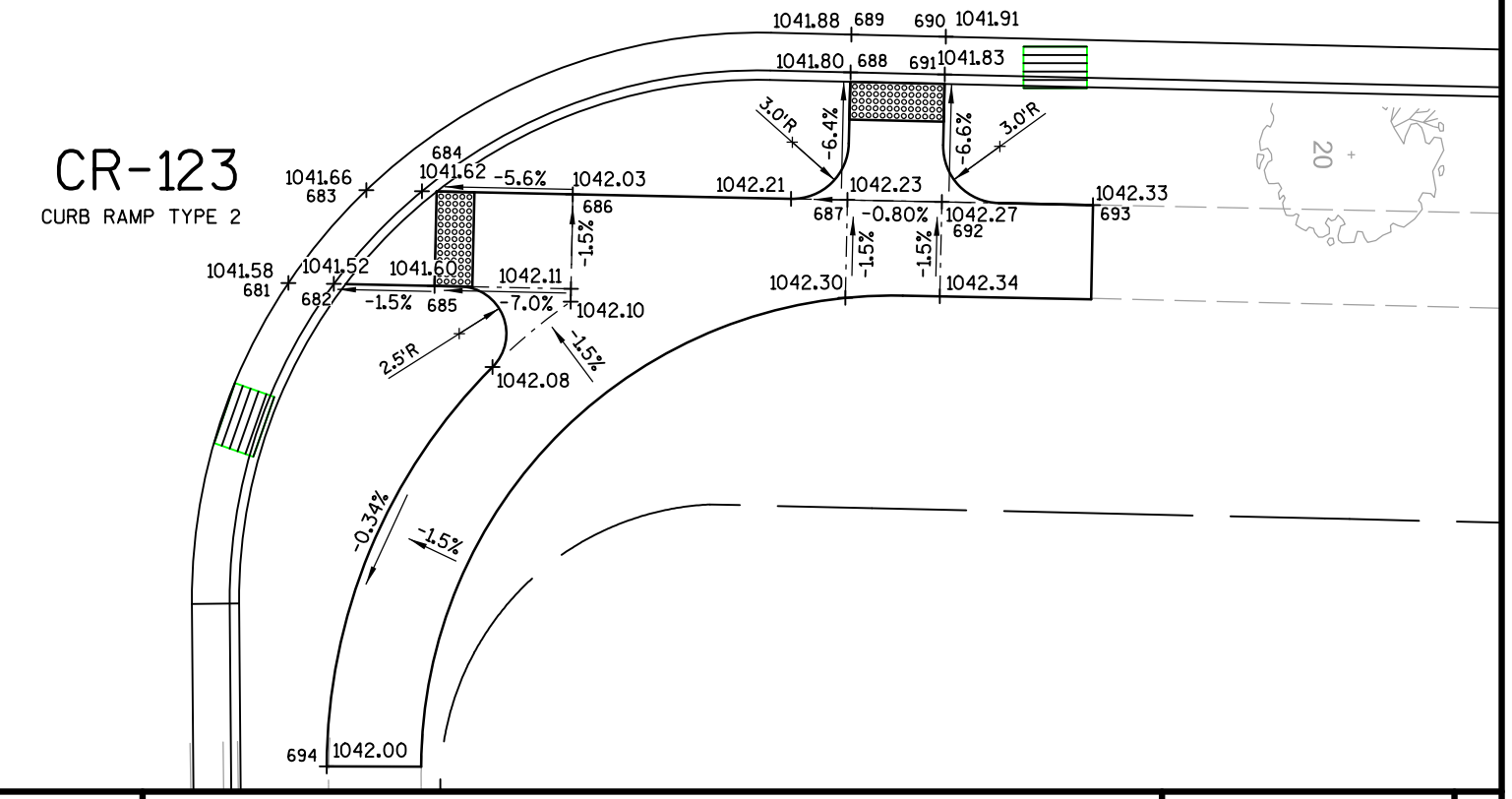
GAMMON PLACE

600+25'MAB'

600+50'MAB'

CR-123

CURB RAMP TYPE 2



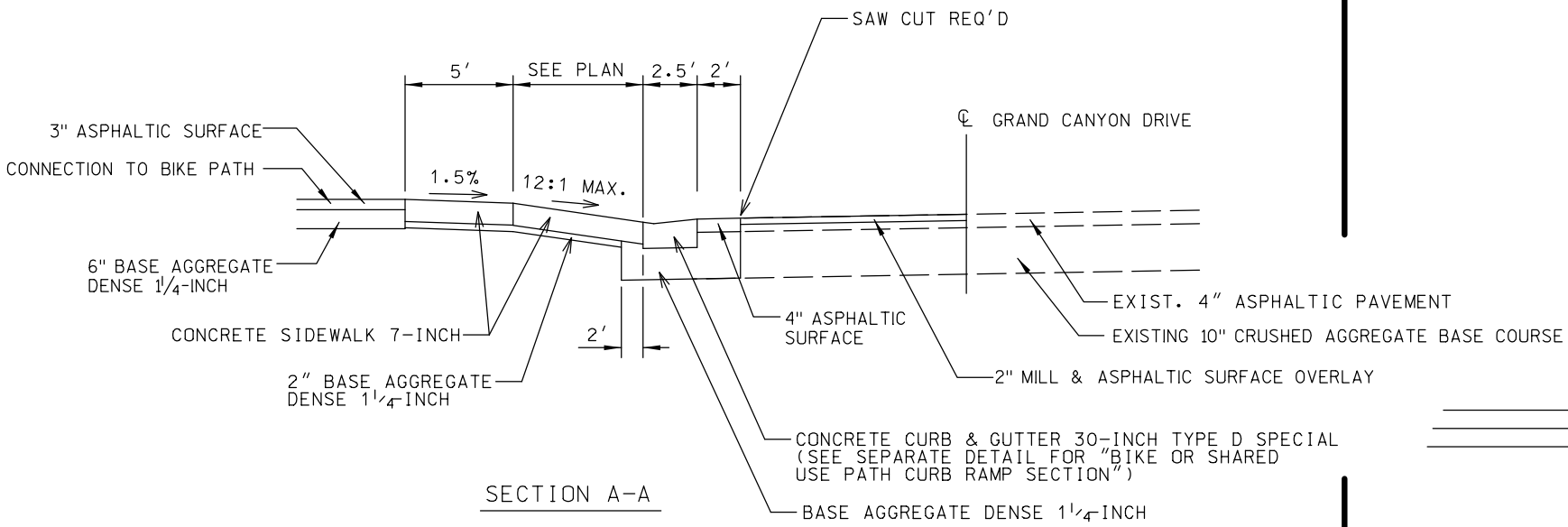
CR-124

CURB RAMP TYPE 3

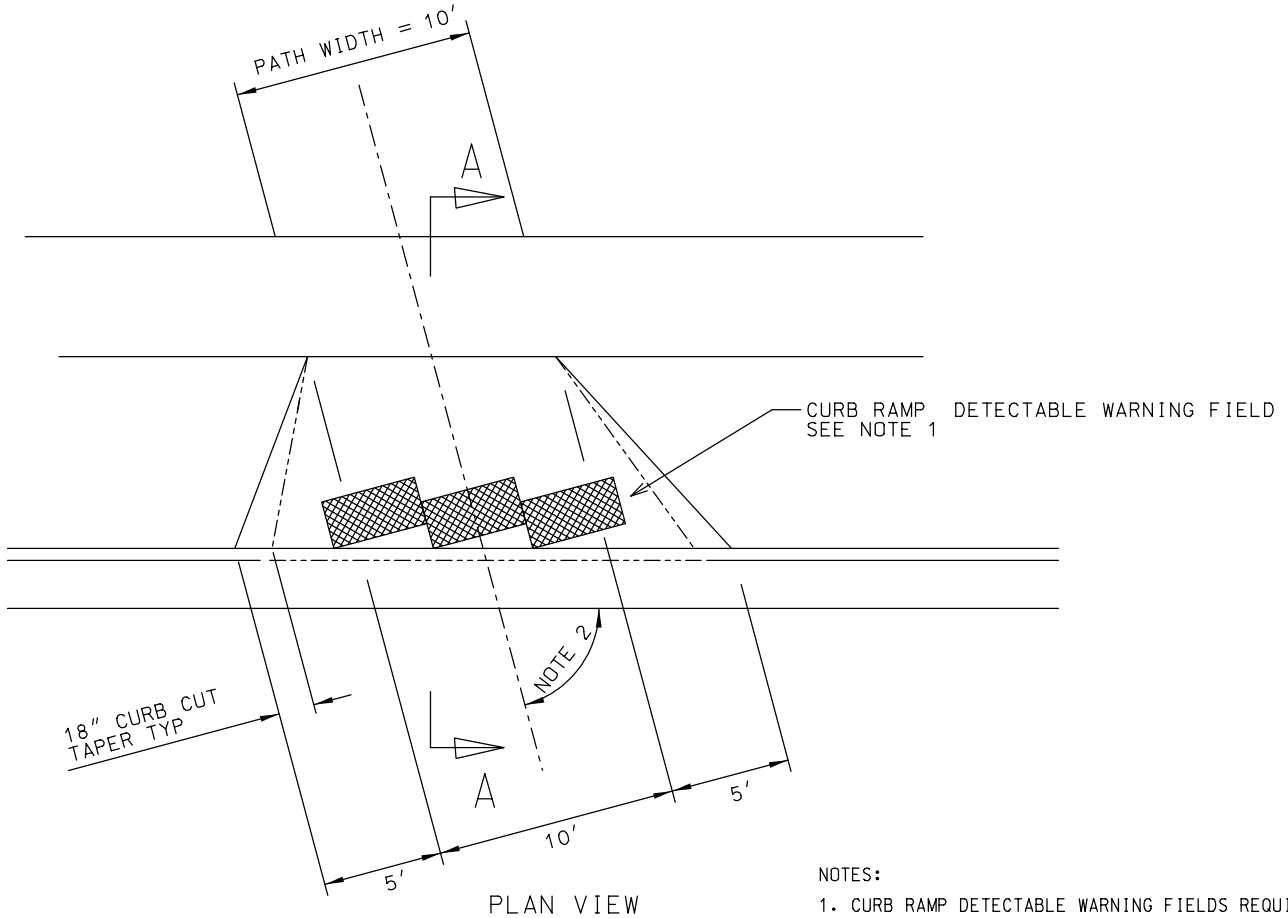
PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CURB RAMP DETAILS	SCALE, FEET 0 5 10	SHEET 30	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\021003_CD.dgn PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:10

WISDOT/CADDS SHEET 42



SECTION A-A



PLAN VIEW

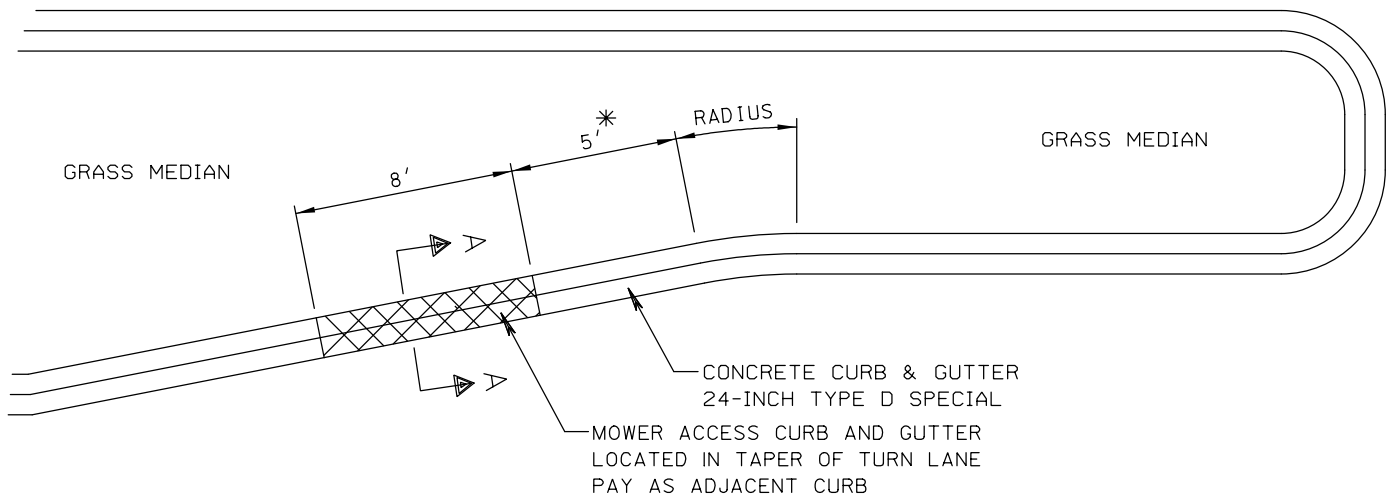
BIKE PATH DETAIL FOR CURB RAMPS

STA. 50+20'BH' TO STA. 50+55'BH'

NOTES:

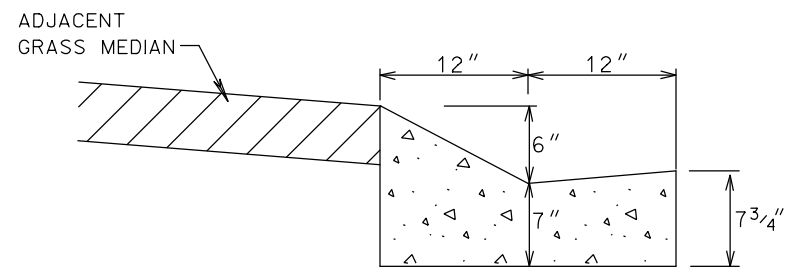
1. CURB RAMP DETECTABLE WARNING FIELDS REQUIRED WHERE PATH RAMP ENTERS A STREET.

2. FOR ANGLES LESS THAN 75° OR GREATER THAN 105° FLARE DIMENSIONS SHALL BE AS SHOWN ON THE PLANS OR SHALL BE REVIEWED BY THE CONSTRUCTION ENGINEER PRIOR TO CONSTRUCTION.



PLAN VIEW

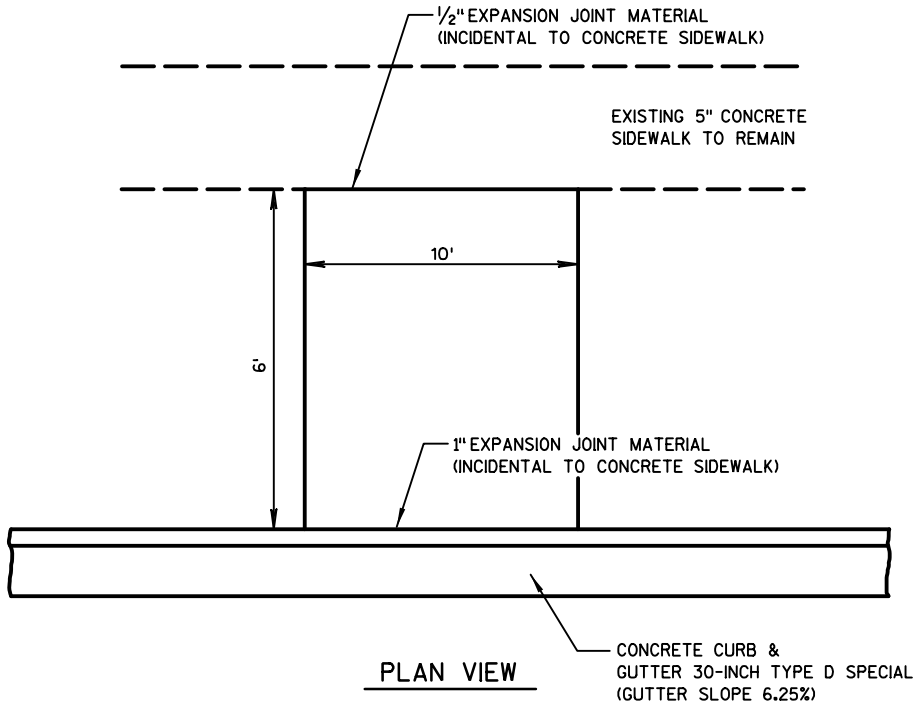
* UNLESS NOTED OTHERWISE ON THE PAVING DETAILS



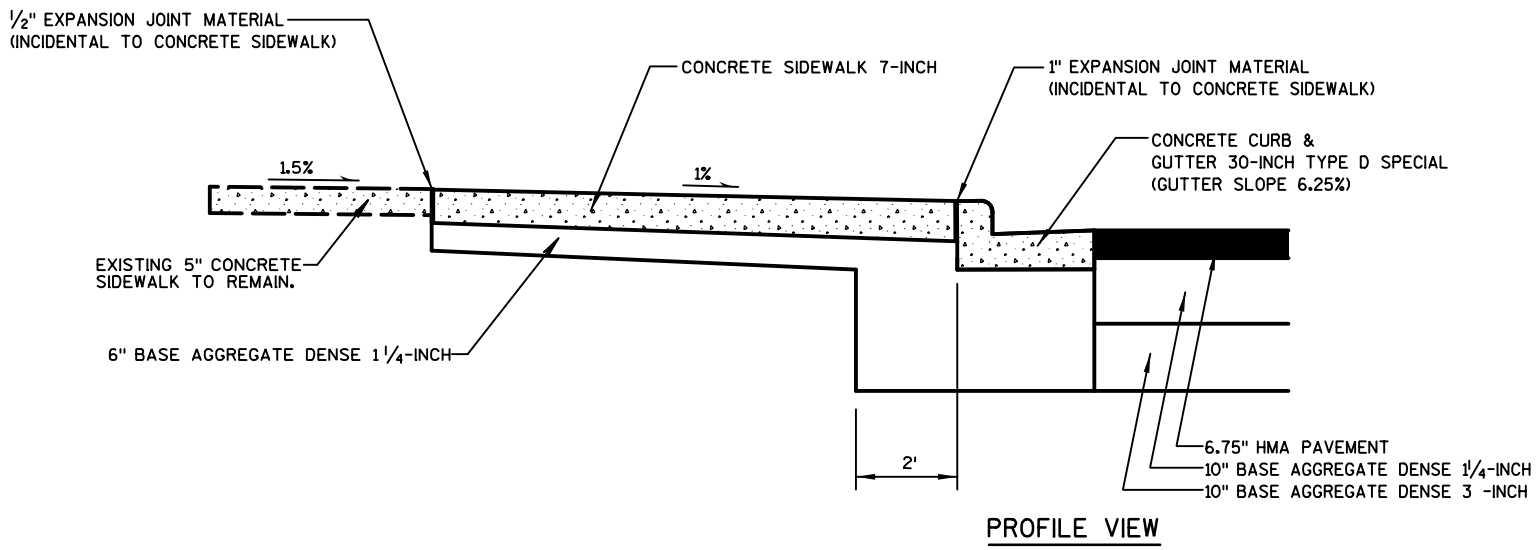
SECTION A-A

MOWER ACCESS TO MEDIAN DETAIL

LOCATIONS IDENTIFIED IN PAVING DETAILS



PLAN VIEW



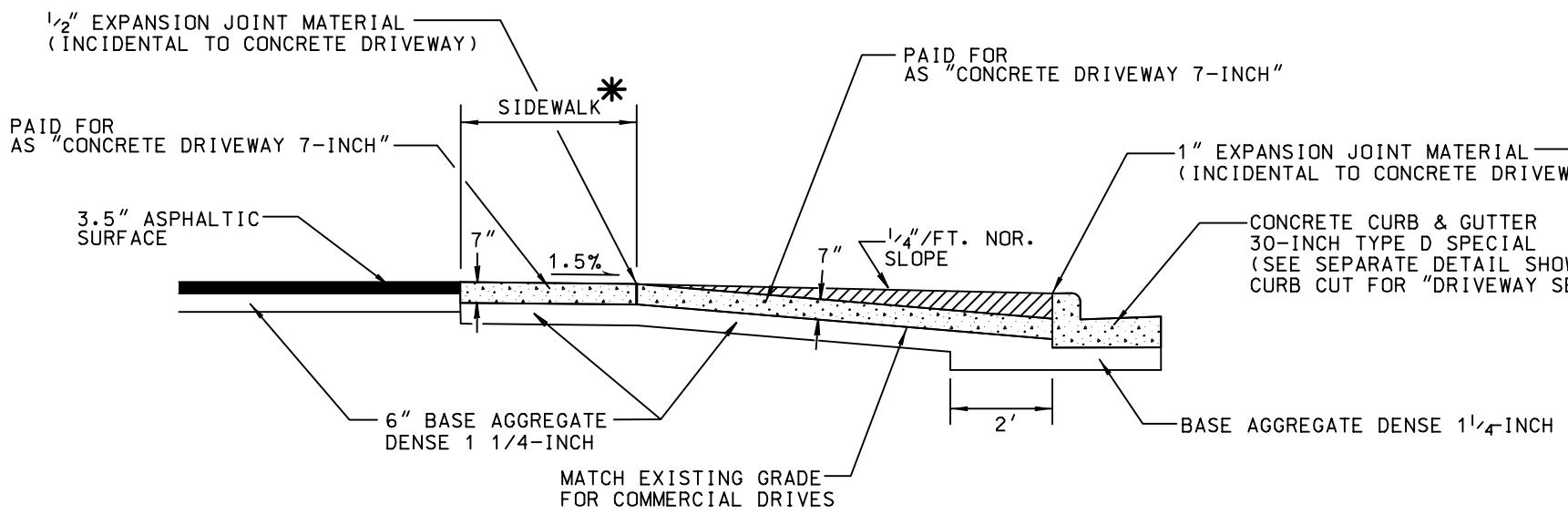
PROFILE VIEW

DETAIL FOR BUS BOARDING PAD

NB GAMMON ROAD, STA. 219+58'NB' RT

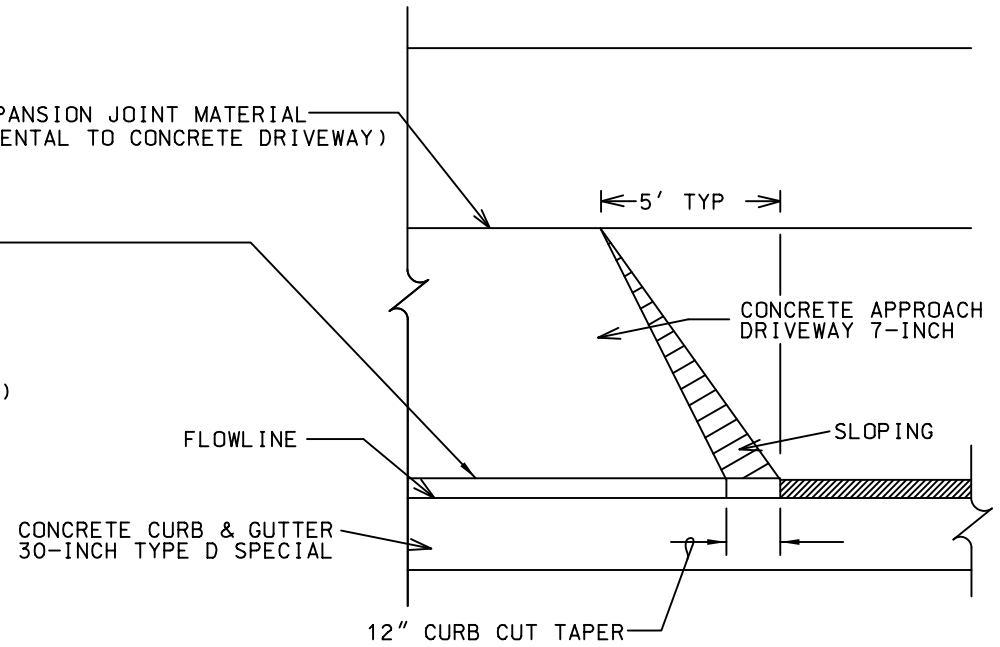
NOTE:

ALL EXPANSION JOINTS SHALL EXTEND THROUGH THE ENTIRE THICKNESS OF THE DRIVEWAY APRON APPROACH OR SIDEWALK, WHICHEVER IS THICKER.



* CONDITION AT STA. 313+00'BP' LT. IS SHOWN.
EXISTING CONCRETE SIDEWALK
TO REMAIN AT THREE LOCATIONS
OFF NB GAMMON ROAD ('NB' LINE)

PROFILE VIEW

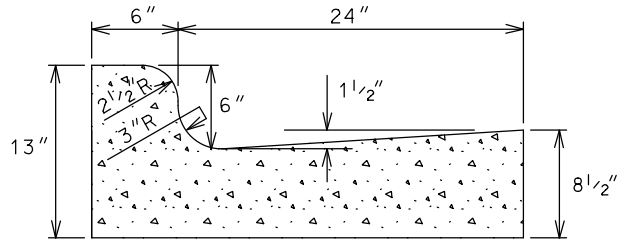


EXPANSION JOINTS IN ACCORDANCE WITH
REQUIREMENTS OF 302.2d and 303.2d

PLAN VIEW

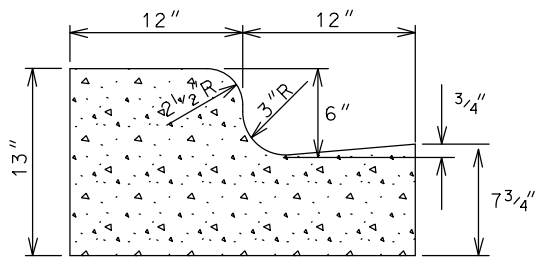
DETAIL FOR ENTRANCE APRON

STA. 215+40'NB' RT
STA. 219+00'NB' RT
STA. 219+85'NB' RT
STA. 313+00'BP' LT



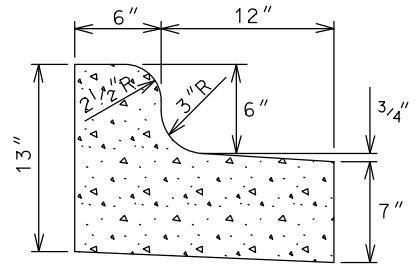
CONCRETE CURB & GUTTER
30-INCH TYPE D SPECIAL

(TYPE A HAS TIE BARS PER SDD 8D1b)



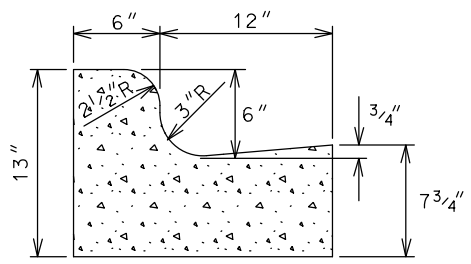
CONCRETE CURB & GUTTER
24-INCH TYPE A SPECIAL
OR TYPE D SPECIAL

(TYPE A HAS TIE BARS PER SDD 8D1b)

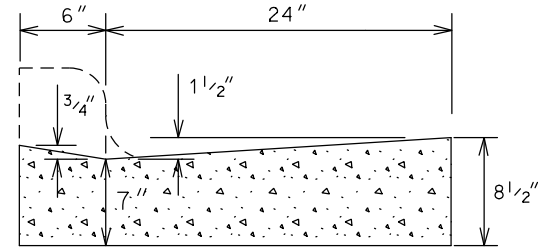


REVERSE SLOPE GUTTER
WHERE NOTED IN DETAILS FOR PAVING GRADES

(PAID FOR AS CONCRETE CURB & GUTTER
18-INCH TYPE D SPECIAL)

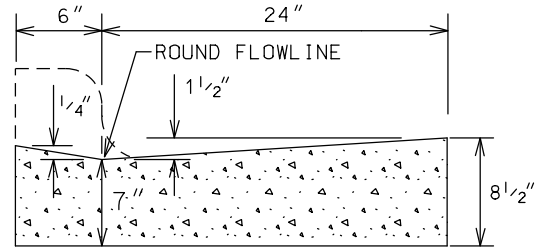


CONCRETE CURB & GUTTER
18-INCH TYPE D SPECIAL



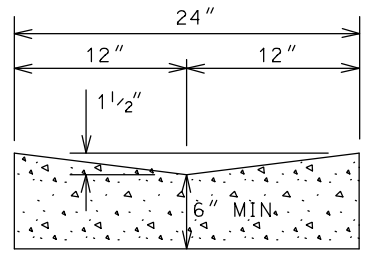
DRIVEWAY SECTION

(PAID FOR AS "CONCRETE CURB & GUTTER
30-INCH TYPE D SPECIAL")



BIKE OR SHARED USE PATH
CURB RAMP SECTION

(PAID FOR AS "CONCRETE CURB & GUTTER
30-INCH TYPE D SPECIAL")



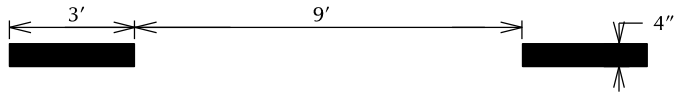
CONCRETE GUTTER
24-INCH TYPE D SPECIAL

GENERAL NOTES:

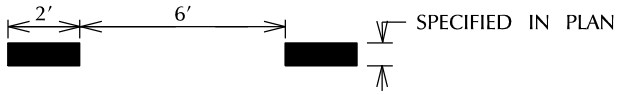
LATERAL CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF NOT MORE THAN 15′ NOR LESS THAN 6′ IN LENGTH. THE JOINTS SHALL BE A MINIMUM OF 3″ IN DEPTH

EXPANSION JOINTS SHALL BE PLACED TRANSVERSLY AT RADIUS POINTS ON CURVES OF RADIUS 200′ OR LESS, AND AT ANGLE POINTS, OR AS DIRECTED BY THE ENGINEER. THE EXPANSION JOINT SHALL BE A ONE PIECE ASPHALTIC MATERIAL HAVING THE SAME DIMENSIONS AS CURB & GUTTER AT THAT STATION AND BE ½″ THICK.

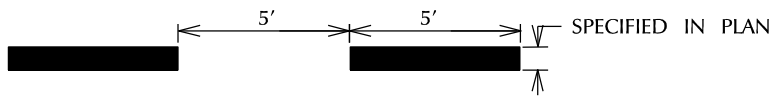
IN ALL CASES, CONCRETE CURB & GUTTER SHALL BE PLACED ON THOROUGHLY COMPACTED BASE AGGREGATE DENSE.



BIKE PATH 9′ GAP X 3′ DASH
(YELLOW ONLY)



DOTTED LINE 6′ GAP X 2′ DASH
(WHITE OR YELLOW)



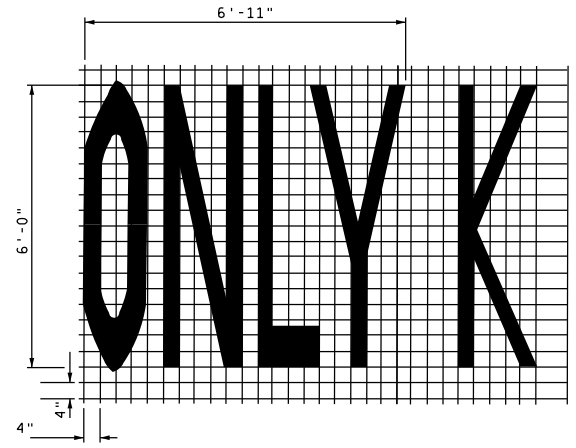
DOTTED LINE 5′ GAP X 5′ DASH
(WHITE OR YELLOW)



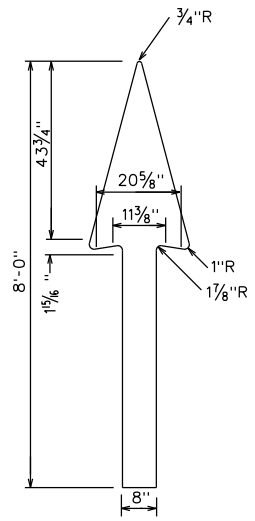
LANE LINE OR CENTERLINE
(WHITE OR YELLOW)



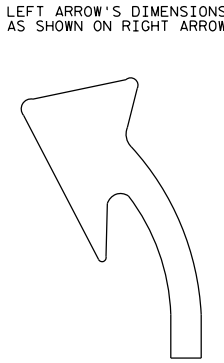
STOP LINE OR CROSSWALK LINE
(WHITE ONLY)



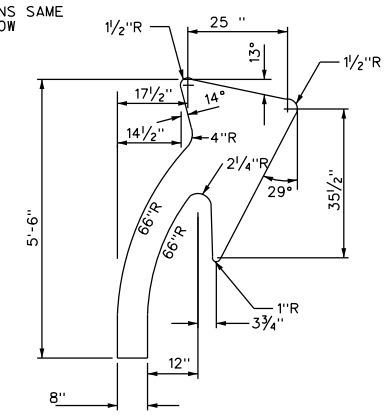
WORD LEGEND



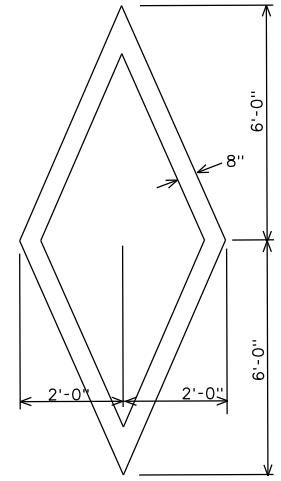
STRAIGHT ARROW



LEFT ARROW

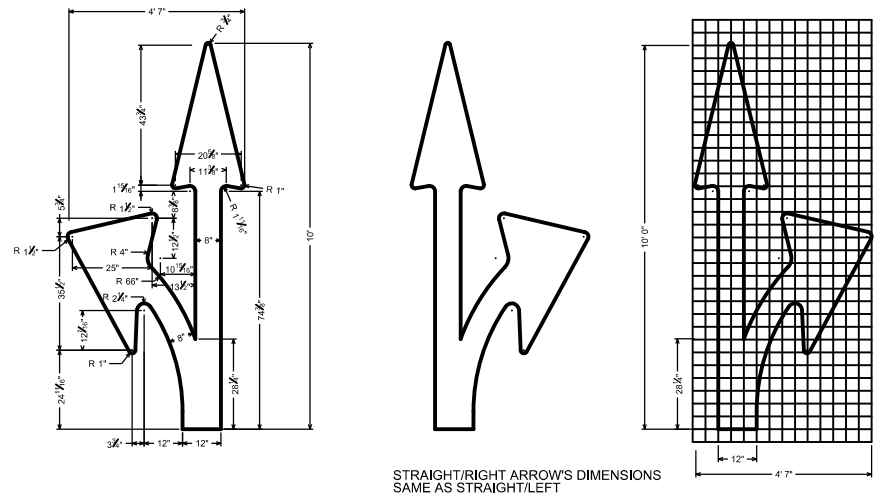


RIGHT ARROW



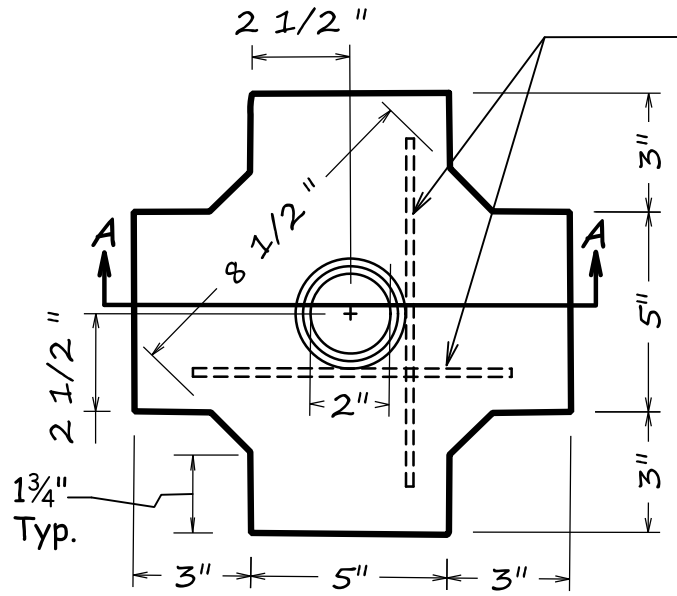
RESTRICTED LANE SYMBOL

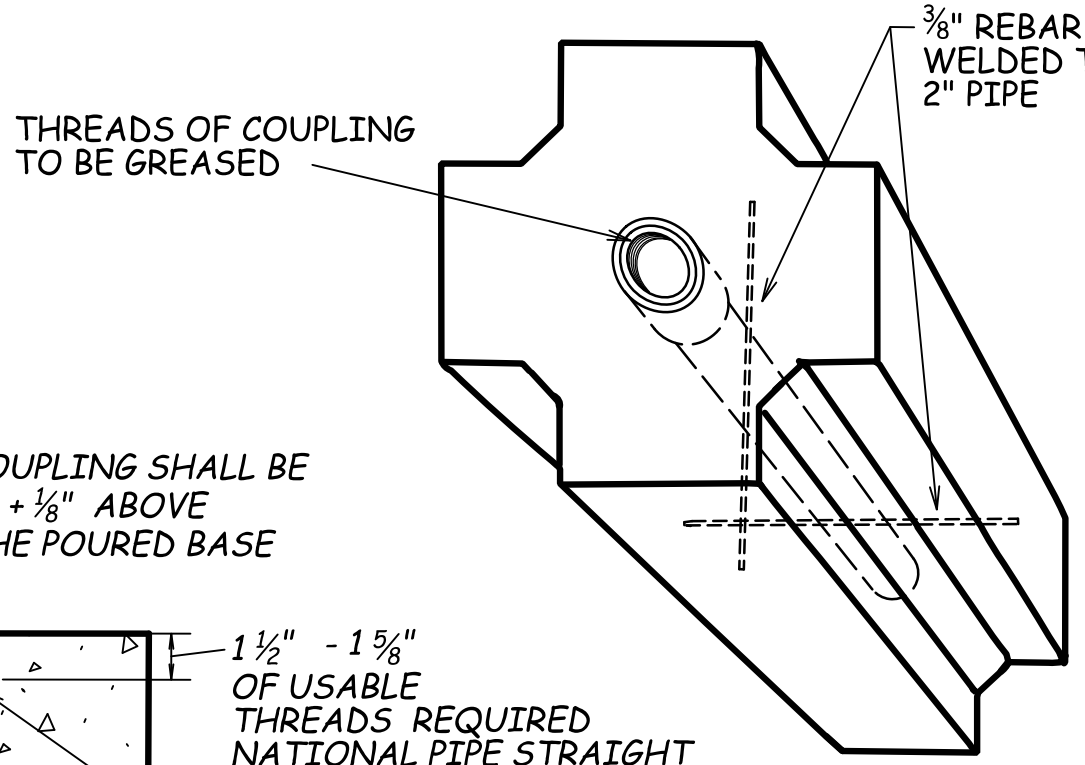
RESTRICTED TRAFFIC LANE MARKING DETAILS

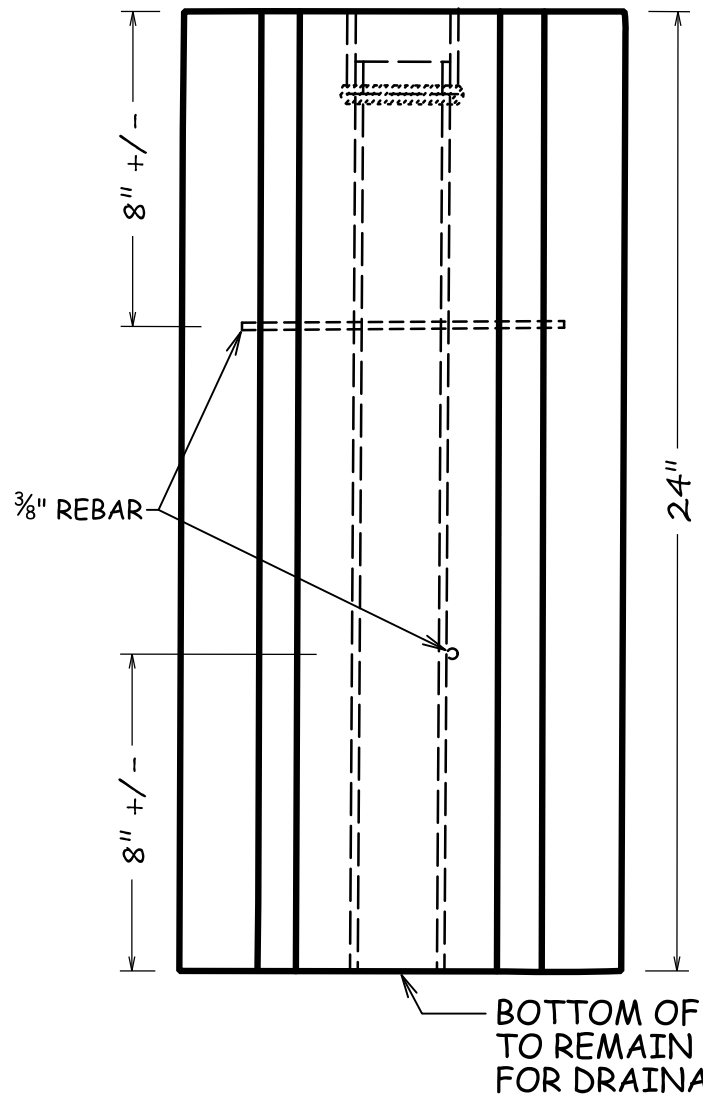


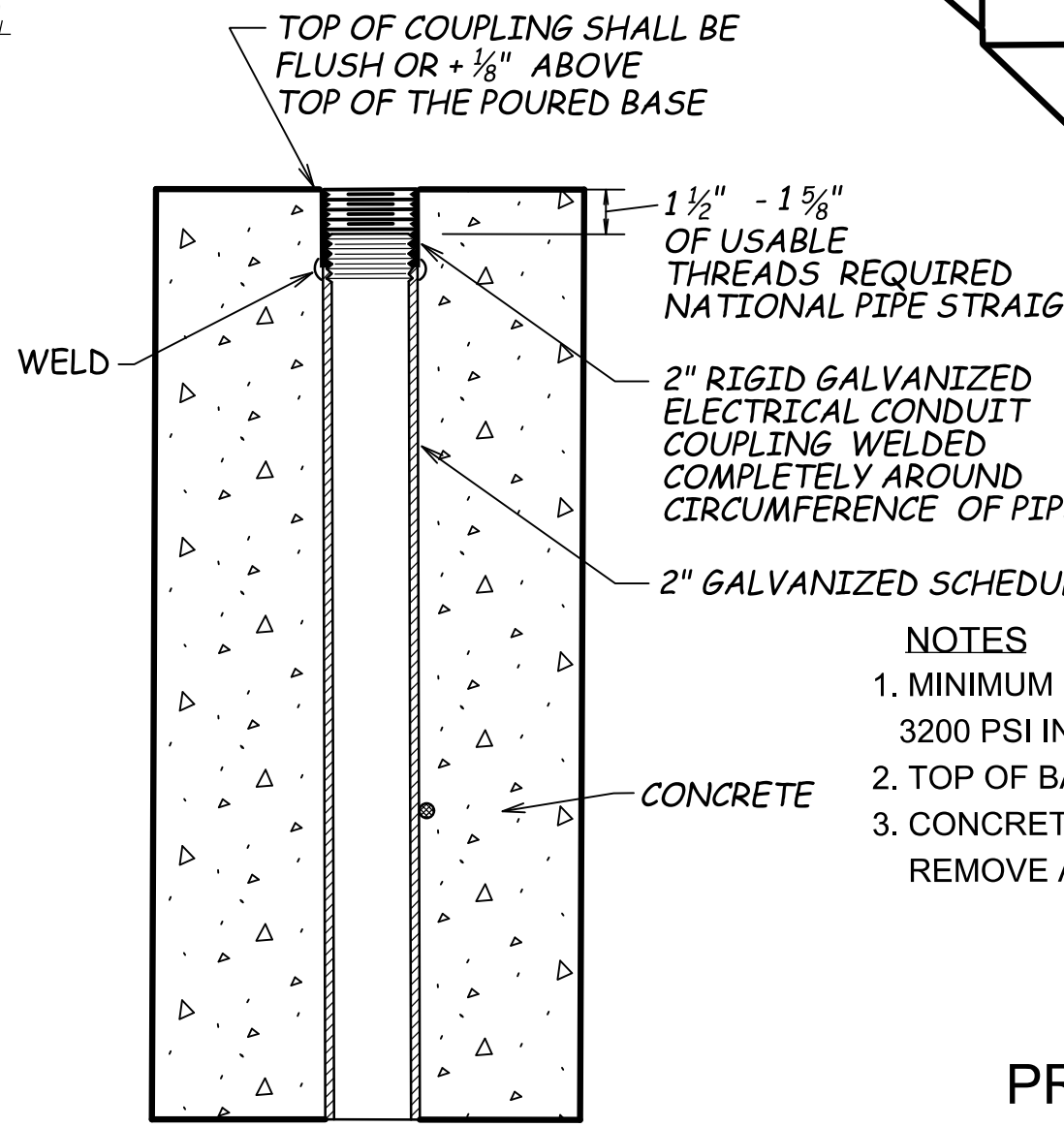
STRAIGHT/LEFT OR RIGHT PAVEMENT MARKING ARROW DETAIL

CITY OF MADISON PAVEMENT MARKINGS









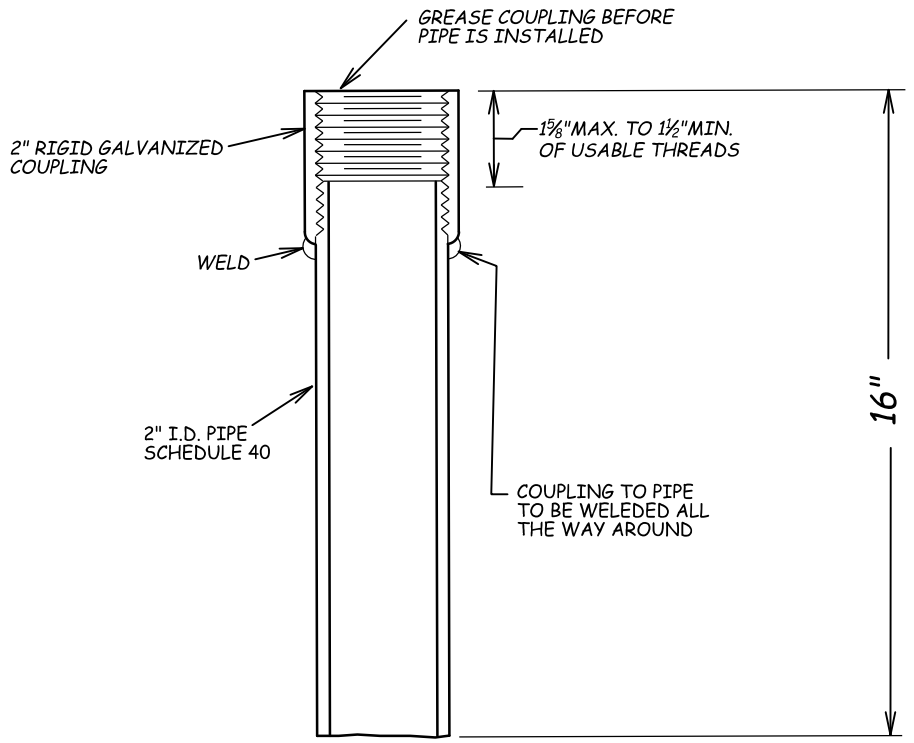
Section A-A

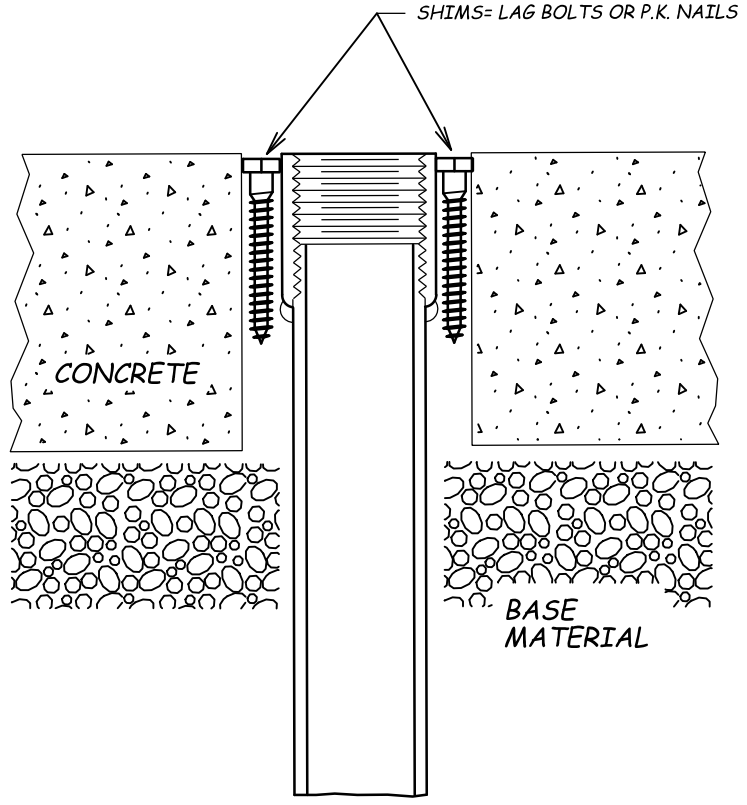
NOTES

1. MINIMUM CONCRETE STRENGTH TO BE 3200 PSI IN 28 DAYS
2. TOP OF BASE TO HAVE SMOOTH FINISH
3. CONCRETE TO BE VIBRATED IN FORM TO REMOVE AIR POCKETS

PRECAST SIGN POST BASE DETAILS

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET 35	E

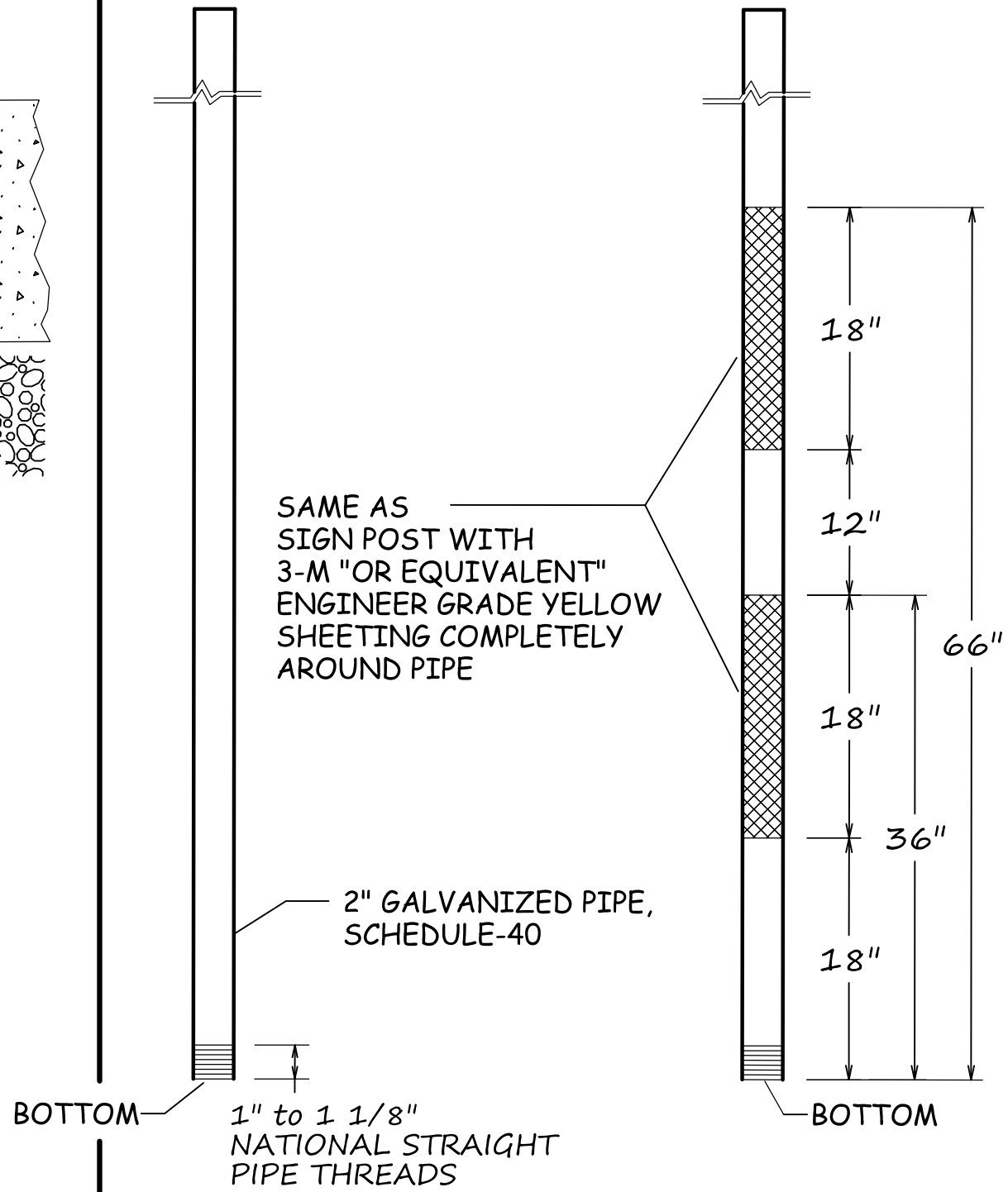




NOTES

DRILL OR COREDRILL 3" HOLE ALL THE WAY THROUGH THE CONCRETE TO THE BASE MATERIAL. WITH A TEMPORARY PIPE 4' TO 5' LONG, HAND-TIGHTEN IT INTO THE INSERT (SEE INSERT DETAIL). DRIVE THE INSERT INTO THE BASE MATERIAL AT A LEVEL/PLUMB POSITION, UNTIL THE INSERT IS FLUSH WITH THE TOP OF THE CONCRETE. NOW SHIM INSERT TO A LEVEL/PLUMB POSITION. SHIMS = DIFFERENT SIZES OF LAG BOLTS OR P.K. NAILS DEPEND ON LEVEL/PLUMB POSITION OF PIPE. ALSO ALL SHIMS MUST BE SET BELOW THE CONCRETE/INSERT. REMOVE TEMPORARY PIPE, REPLACE WITH PERMANENT PIPE, TIGHTEN INTO INSERT WITH LARGE PIPE WRENCH UNTIL INSERT TURNS, THEN RESET SHIMS/OR ADD SHIMS UNTIL PIPE NO LONGER TURNS. RETIGHTEN PIPE, RECHECK LEVEL/PLUMB/TOP OF CONCRETE WITH INSERT. MIX UP A BATCH OF THOROGRIP WHICH IS A WATERPROOF ANCHORING CEMENT FOR CONCRETE. FOR THE INSTALLATION, THOROGRIP SHOULD BE MIXED UP IN A LIQUID CONSISTENCY, NOT A PASTE. AROUND THE OUTSIDE OF THE CONCRETE HOLE, POUR THE THOROGRIP UNTIL IT IS FLUSH WITH THE TOP OF THE INSERT. RECHECK LEVEL/PLUMB/TOP OF CONCRETE WITH INSERT RIGHT AWAY SINCE THOROGRIP IS A FAST-SETTING ANCHORING CEMENT. MAY NEED TO ADD MORE THOROGRIP AS IT SETTLES AND NO SHIMS ARE SHOWING WHEN INSTALLATION IS COMPLETE. INSTALLATION NEEDS TO BE LEVEL/PLUMB, SOLID AND STRONG WHEN COMPLETED.

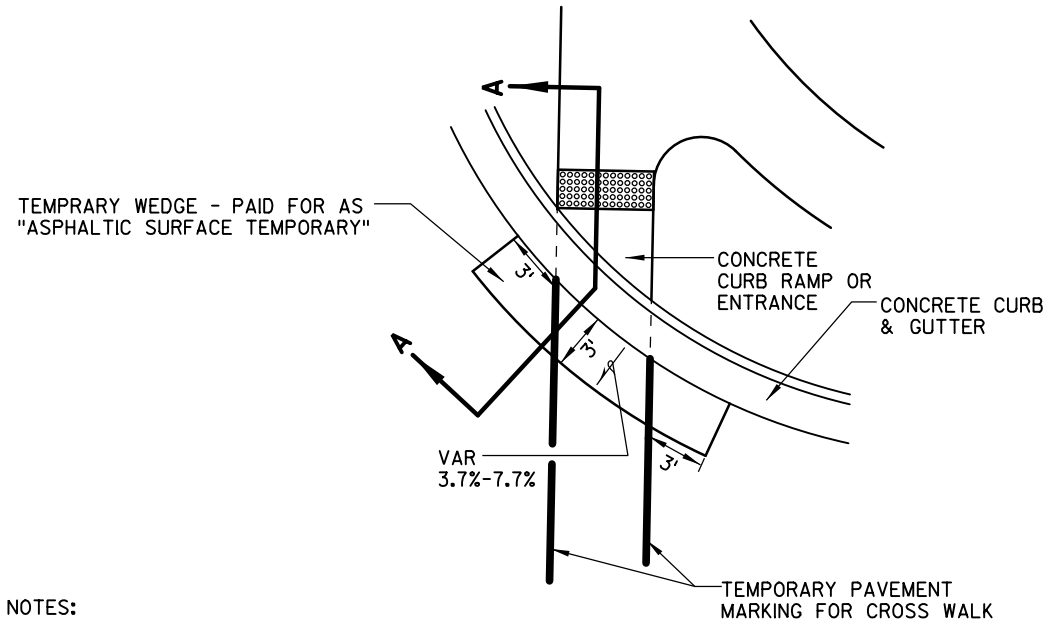
SIGN POST FOR CONCRETE INSTALLATION DETAIL



SIGN POST

REFLECTIVE SIGN POST

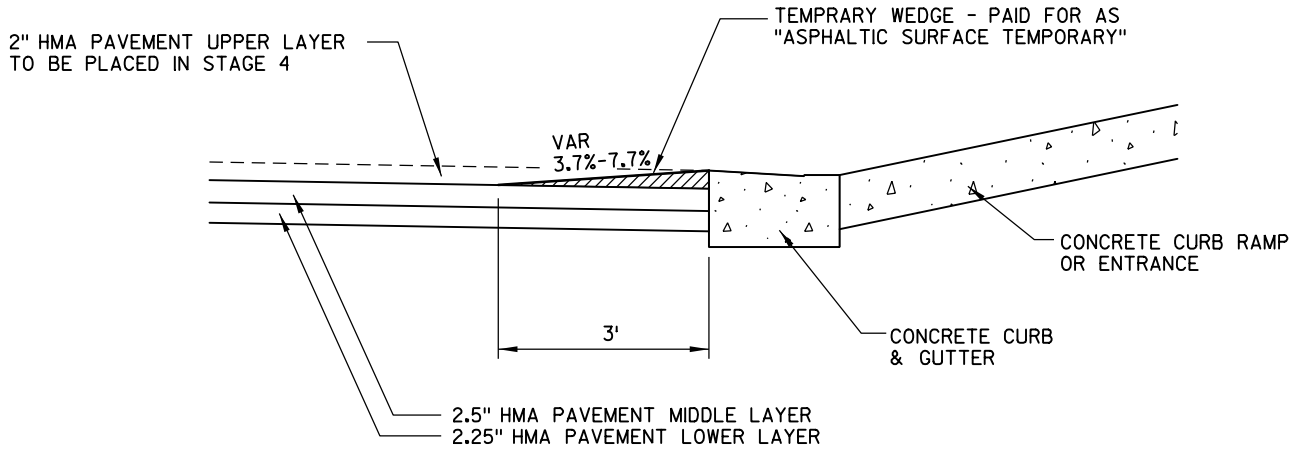
(TRUCK ROUTE STREETS ONLY)



NOTES:

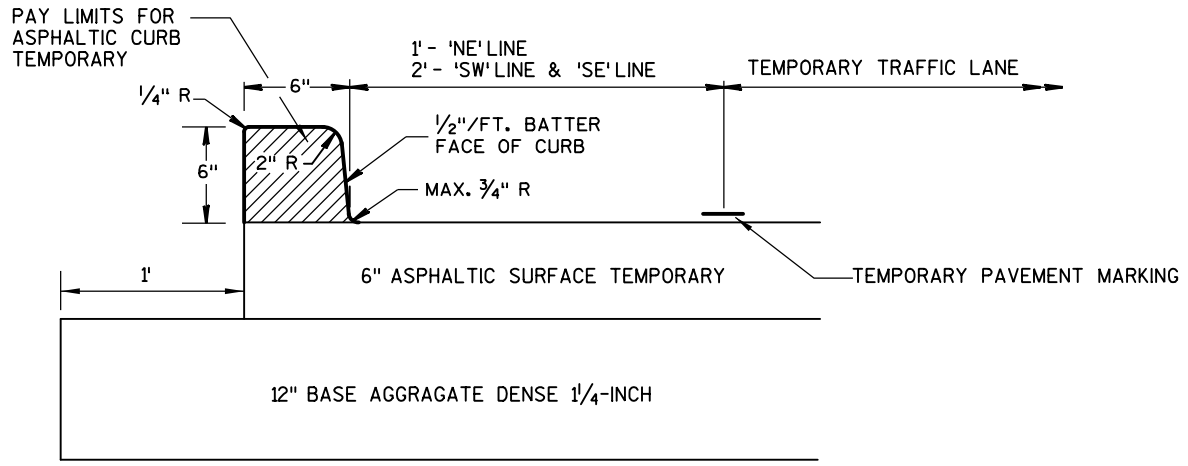
PROVIDE ASPHALTIC WEDGES PRIOR TO OPENING PAVEMENT TO TRAFFIC.

REMOVAL OF ASPHALTIC WEDGES WILL BE PAID FOR AS "REMOVING ASPHALTIC SURFACE BUTT JOINTS."



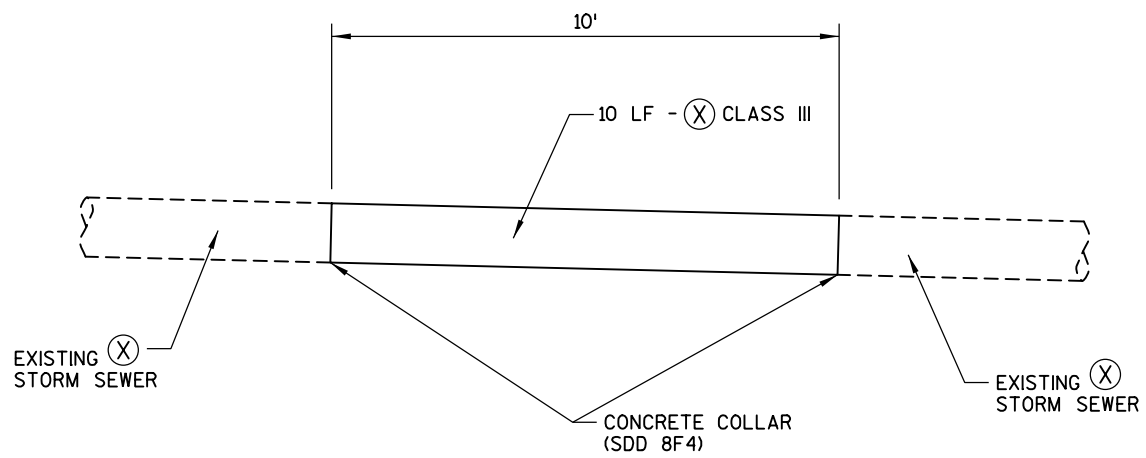
SECTION A-A

DETAIL FOR TEMPORARY WEDGE AT CURB RAMPS OR ENTRANCES



DETAIL FOR ASPHALTIC CURB TEMPORARY

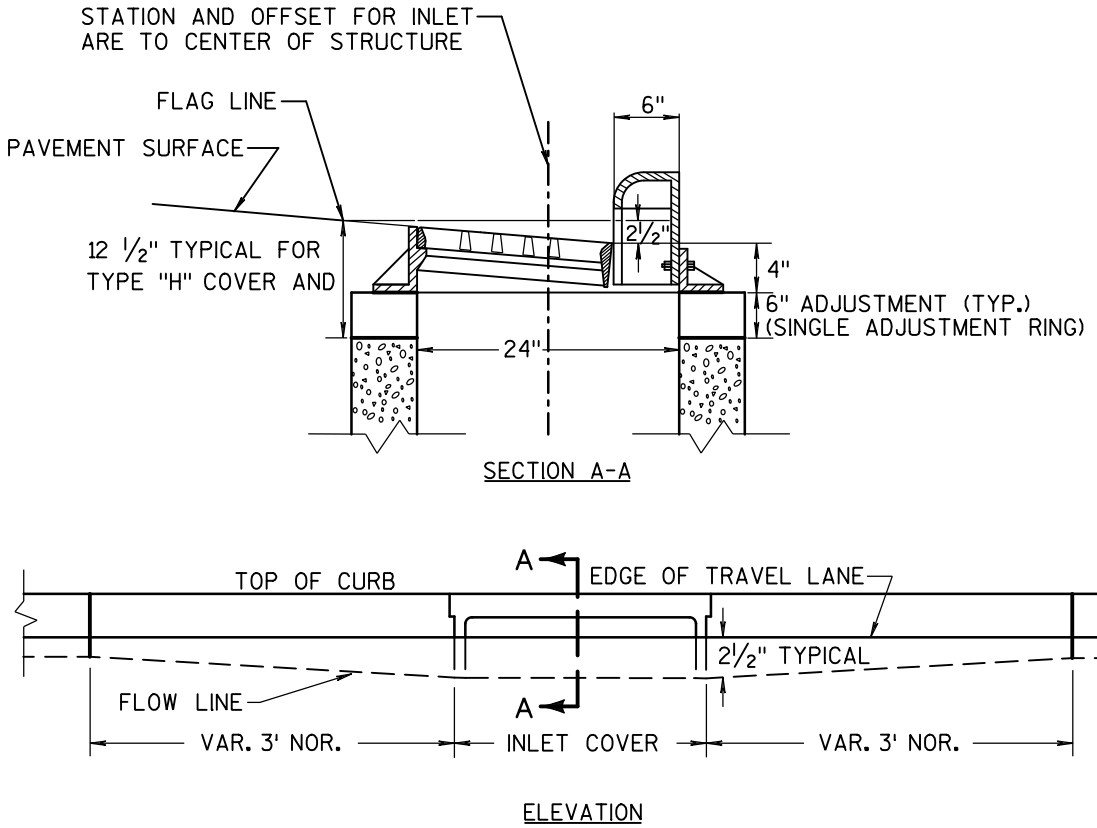
STA. 205+78'W' TO STA. 207+34'W' RT
STA. 207+02'SE' TO STA. 209+47'SE' RT
STA. 207+47'NE' TO STA. 213+71'NE' RT

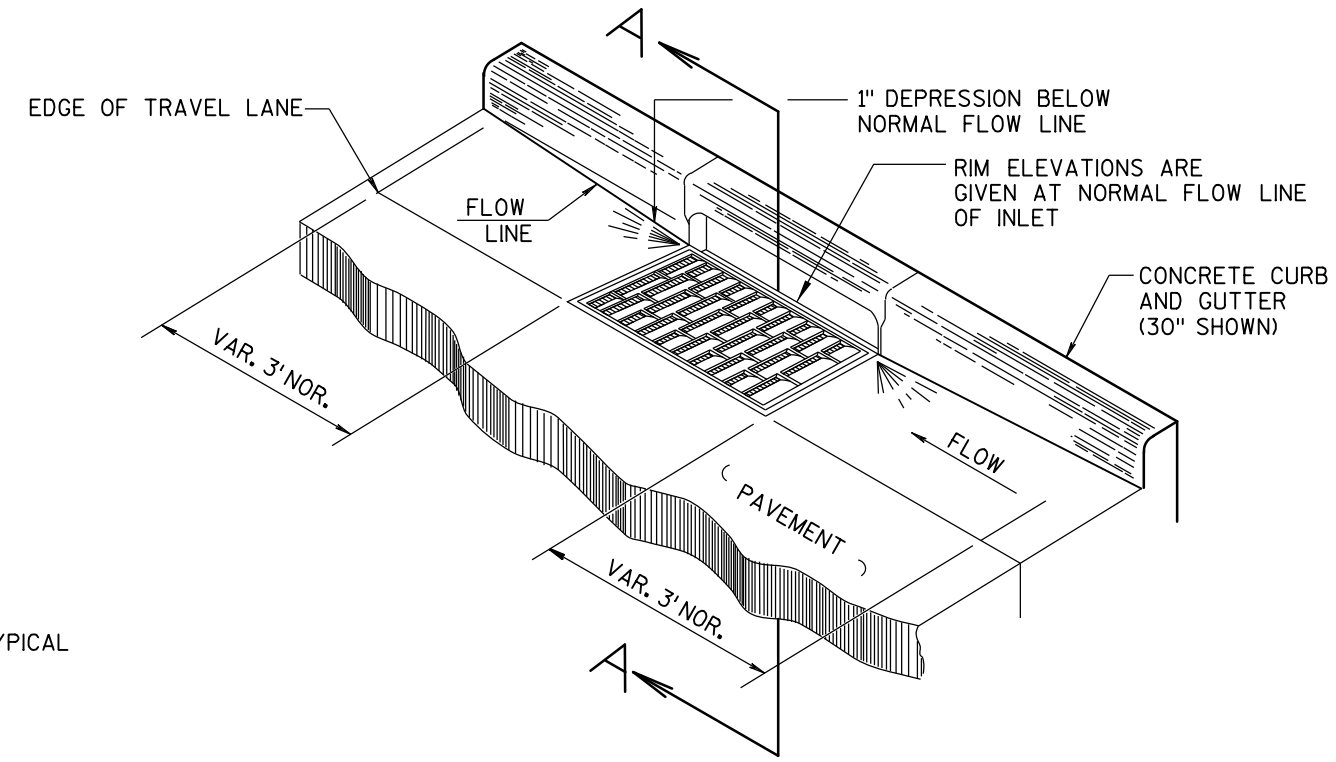


DETAIL FOR FINAL STORM SEWER RESTORATION

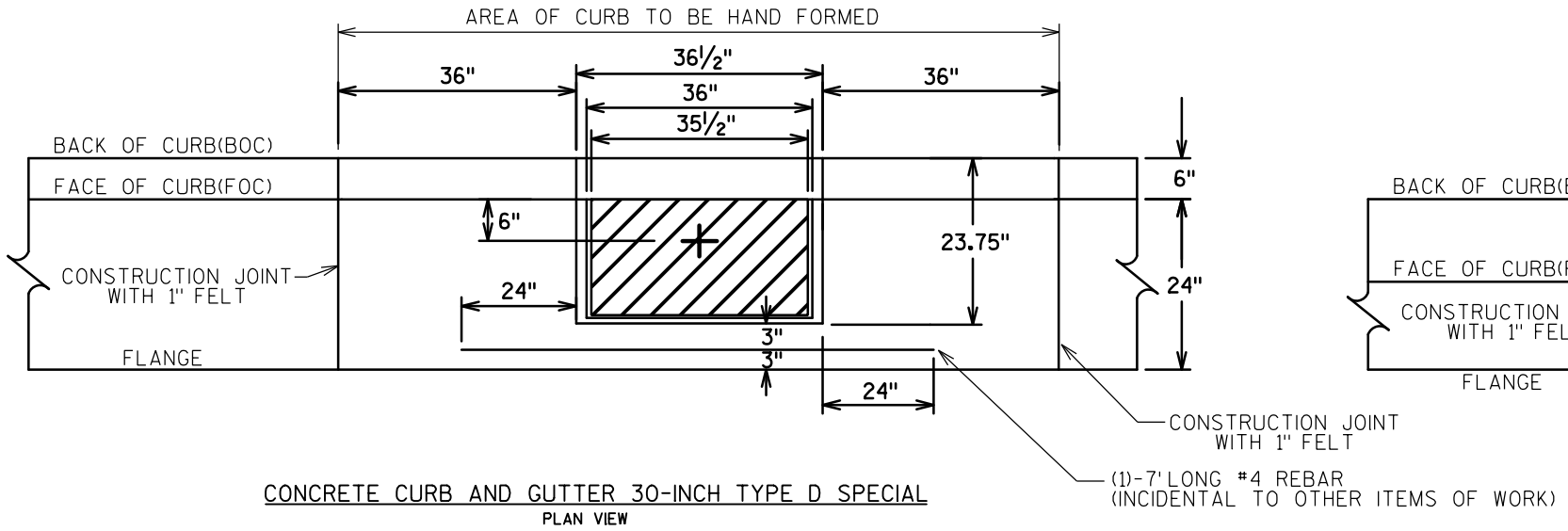
SUBSTAGE 2A: STA. 207+40'NB' - 105'LT ((X) = 18")
SUBSTAGE 3B: STA. 224+81'NB' - 17'LT ((X) =15")

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET 37	E

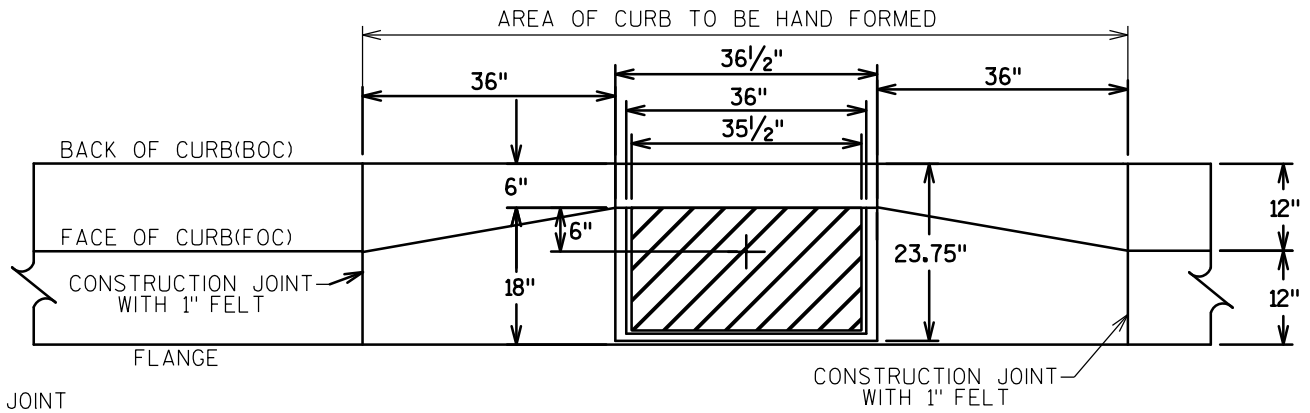




CURB AND GUTTER AT INLET DETAIL

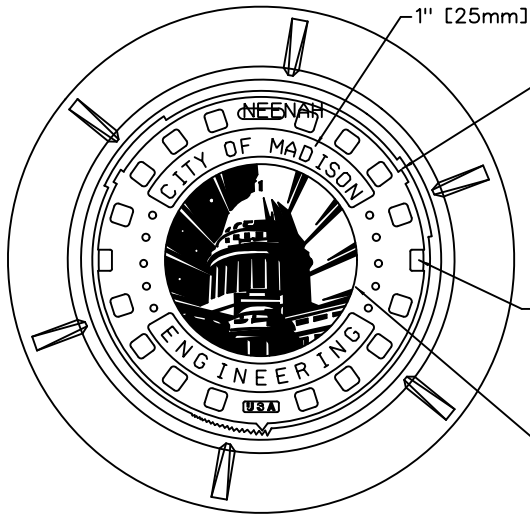


CONCRETE CURB AND GUTTER 30-INCH TYPE D SPECIAL
PLAN VIEW



CONCRETE CURB AND GUTTER 24-INCH TYPE D SPECIAL
PLAN VIEW

CURB AND GUTTER AT INLET DETAIL



1" [25mm] HIGH LETTERS

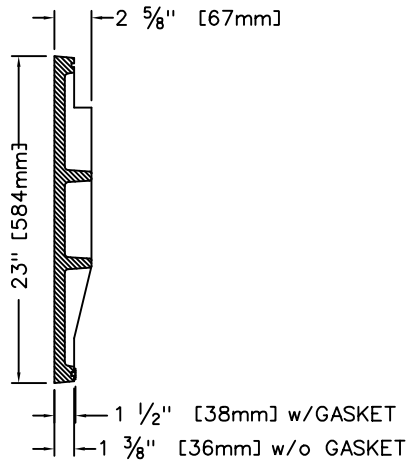
NON-ROCKING FEATURE-
3 PLACES, 120° APART

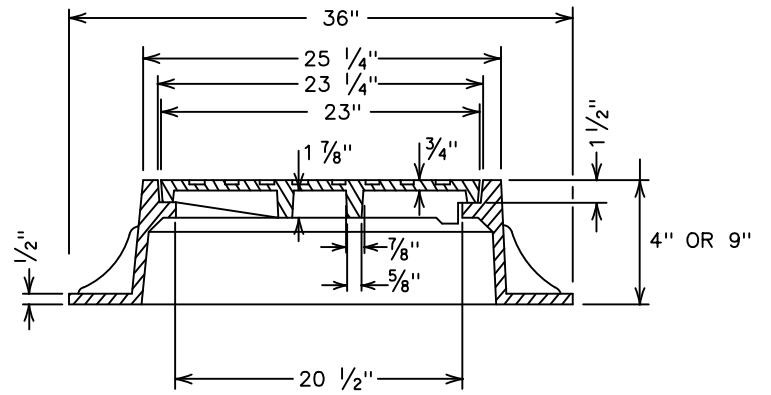
(2) CONCEALED
TYPE PICKHOLES
PER NF-22642

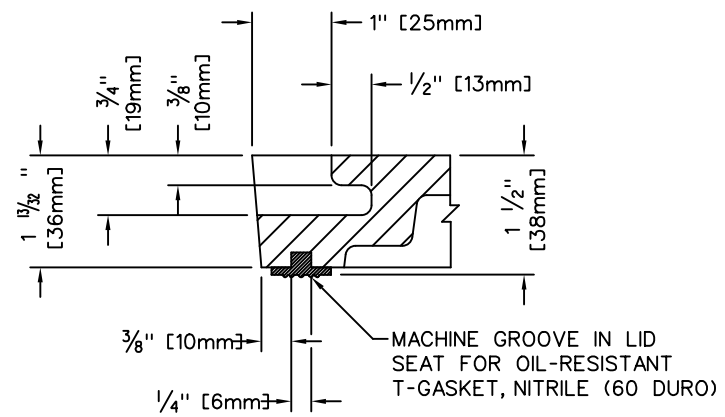
CITY OF MADISON
ENGINEERING LOGO,
SHADED AREA REPRESENTS
RECESSED AREA

LOGO DETAIL









T-SEAL GASKET / CONCEALED PICK DETAIL

NOTES:

APPROXIMATE TOTAL WEIGHTS:
R-1550 w/ LOGO LID 1550-0054, 9" FRAME AND LID - 265 LBS.
R-1689 w/ LOGO LID 1550-0054, 4" FRAME AND LID - 279 LBS.

IF LOCKABLE LID IS NECESSARY, R-1920, 83/4" FRAME AND LID - 300 LBS THERE IS NO CITY OF MADISON LOGO LID AVAILABLE FOR THIS FRAME AND CASTING.

THE FOLLOWING NEENAH FOUNDRY CASTINGS (OR EQUAL CASTINGS) SHALL BE ACCEPTABLE:

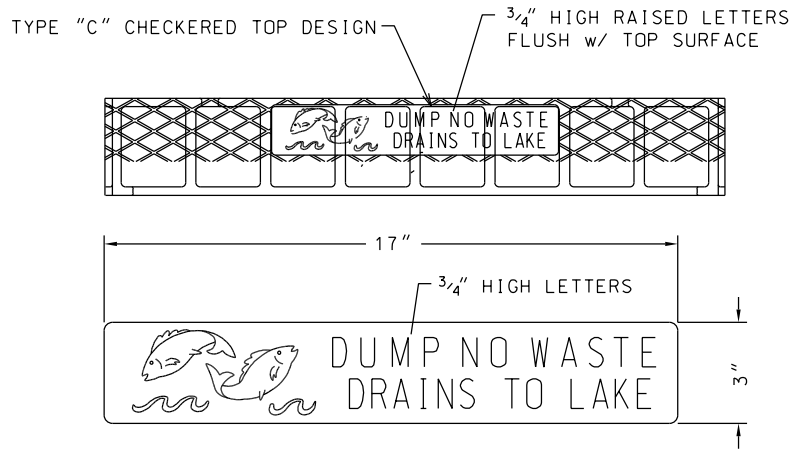
1. R-1550, 9" NON-ROCKING ACCESS STRUCTURE FRAME.
2. R-1689, 4" NON-ROCKING ACCESS STRUCTURE FRAME (WHEN REQUESTED BY THE CITY CONSTRUCTION ENGINEER).
3. R-1920, 83/4" ACCESS STRUCTURE FRAME WITH LOCKING LID, TYPE 'F' LOCKS, AND CONCEALED PICK HOLES. TO BE USED IN GREENWAYS AND EASEMENTS.

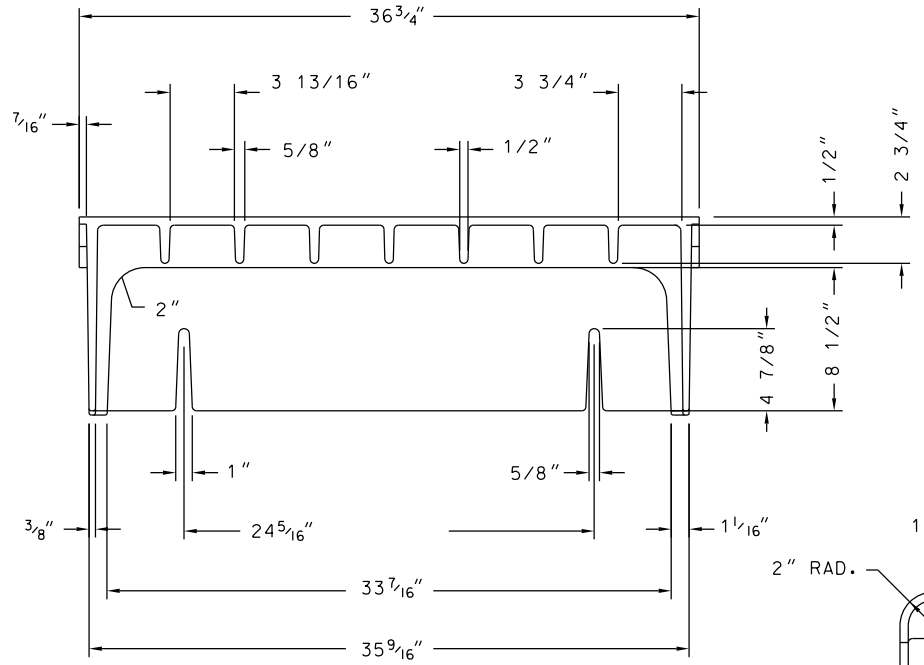
1. FRAME AND COVER SHALL BE MACHINED AND FITTED SO THAT ROCKING AND CHATTERING WILL BE ELIMINATED.
2. ALL LIDS SHALL BE SELF-SEALING EXCEPT FOR STORM SEWER.
3. ALL LIDS SHALL HAVE CITY OF MADISON LOGO AS SHOWN IN DETAIL (R-1550-0054 OR EQUIV.)

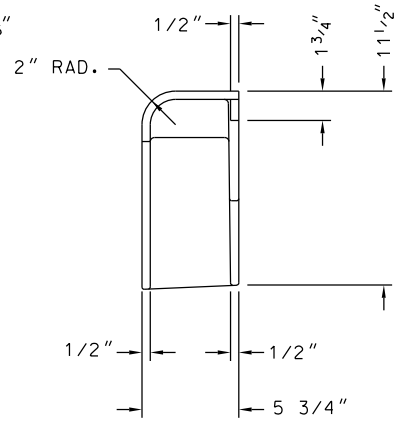
LID NOTES: ALL DIMENSIONS SHOWN ARE IN ENGLISH AND [METRIC]
MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B

MANHOLE COVERS TYPE J SPECIAL

2

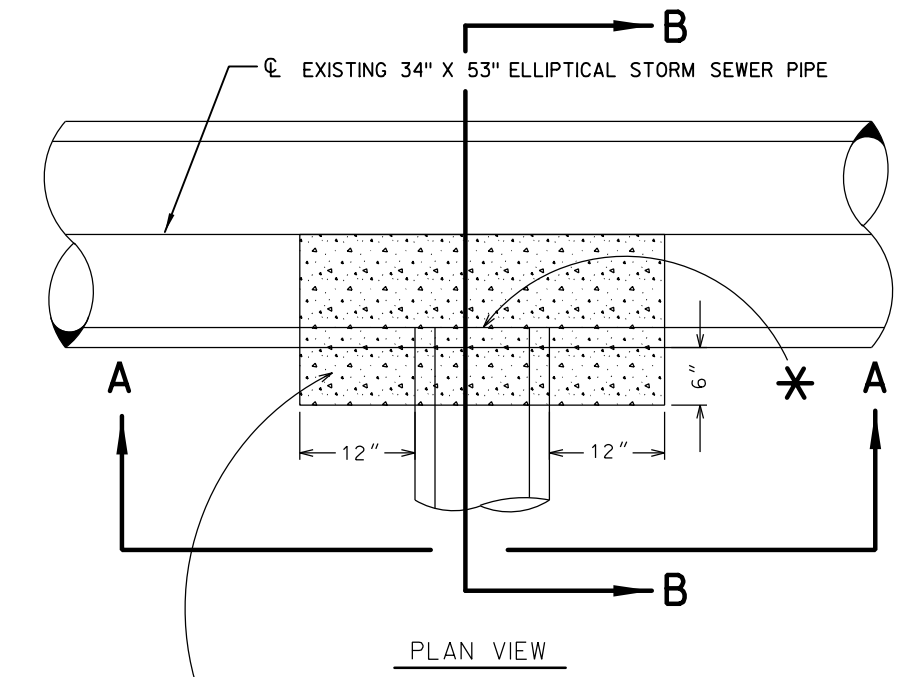




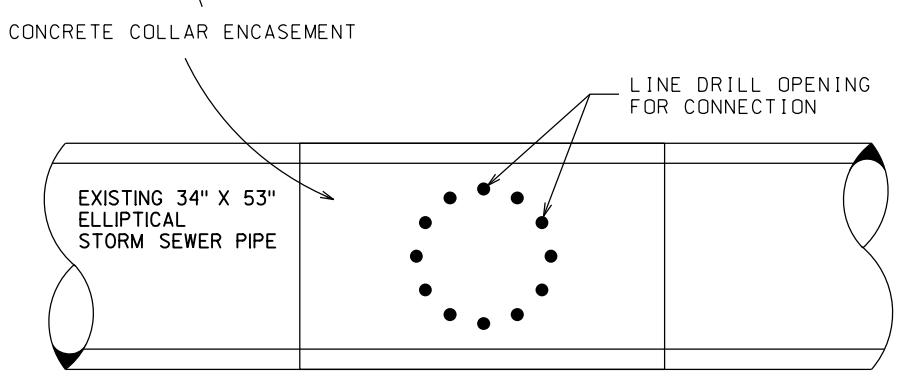


MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B
FINISH: NO PAINT
WEIGHT: 126#

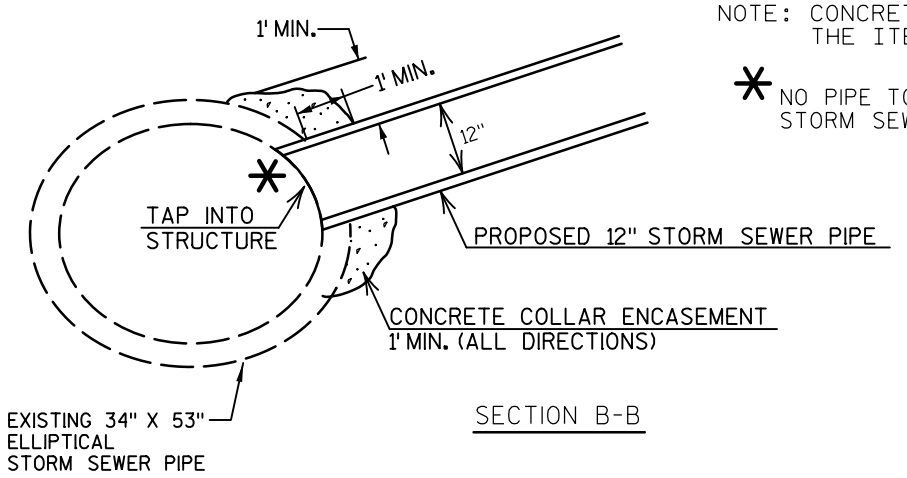
INLET COVER TYPE H SPECIAL



PLAN VIEW



SECTION A-A

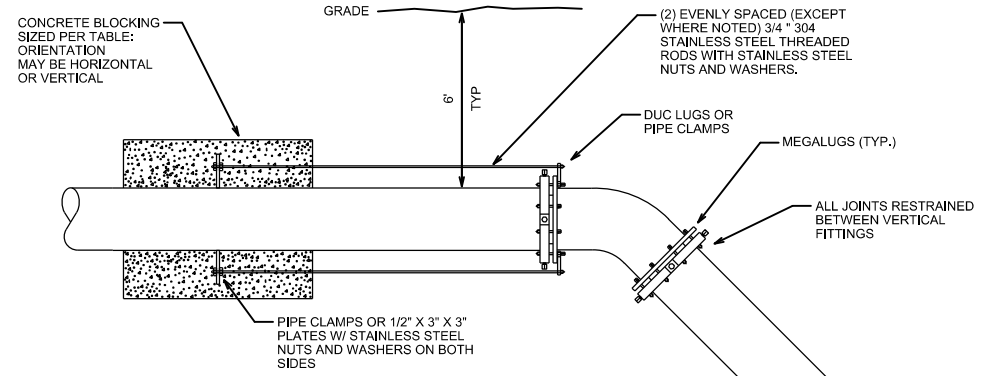


SECTION B-B

NOTE: CONCRETE COLLAR INCIDENTAL TO THE ITEM "STORM SEWER TAP".

* NO PIPE TO PROTRUDE INTO EXISTING STORM SEWER PIPE

DETAIL FOR STORM SEWER TAP



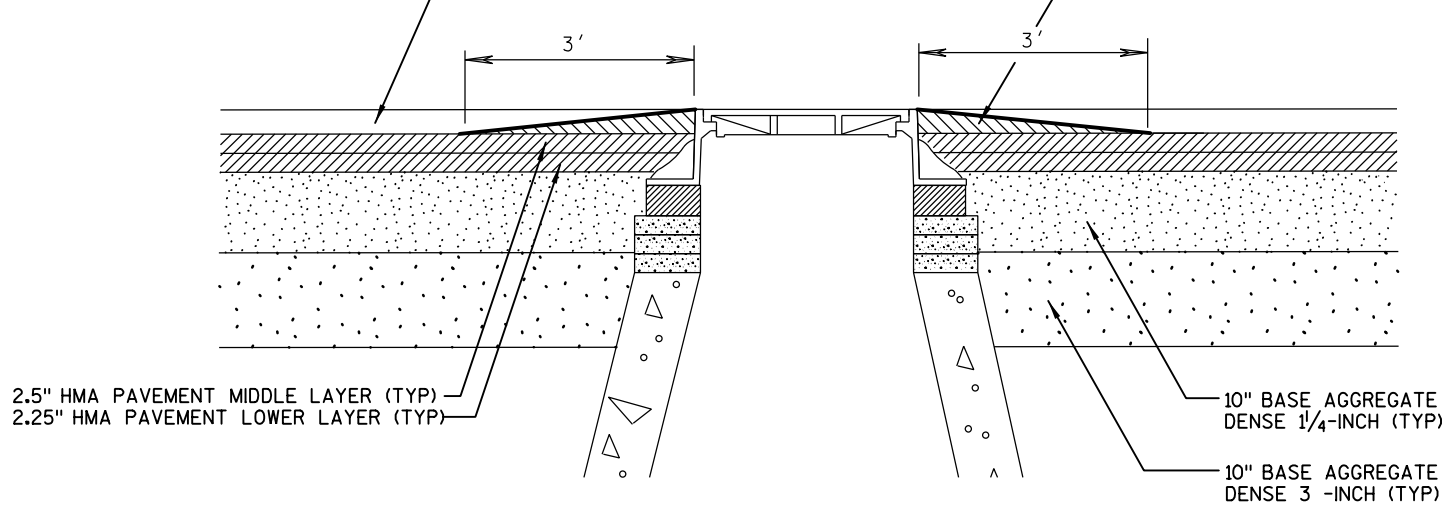
VOLUME OF POURED CONCRETE BLOCKING (C.Y.) *				
FITTING SIZE (IN)	90° BEND	45° BEND	22.5° BEND	11.25° BEND
4	0.1	0.1	0.1	0.1
6	0.3	0.2	0.1	0.1
8	0.7	0.4	0.2	0.1
10	1.3	0.8	0.3	0.1
12	2.1	1.3	0.6	0.2
16	4.6	2.9	1.3	0.5
20	8.2 4 RODS	5.4 3 RODS	2.3	0.9
24	13.0 5 RODS	8.4 4 RODS	3.8	1.5

* CONCRETE SHALL BE A MIN. 3000 PSI COMPRESSIVE STRENGTH

NOTE:

THIS METHOD MAY ONLY BE USED WHERE SPECIFIED OR WITH ENGINEER'S APPROVAL

ROD & CONCRETE BLOCK THRUST RESTRAINT FOR VERTICAL BENDS

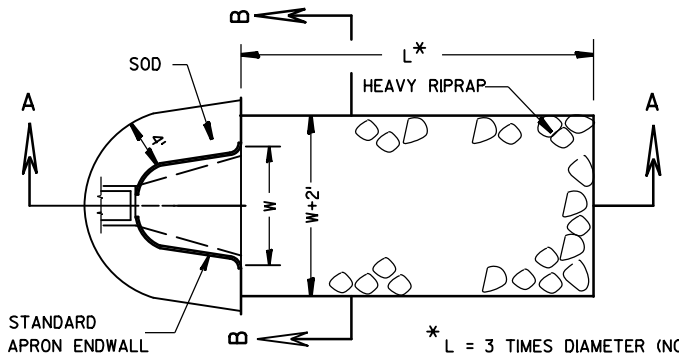


NOTES:

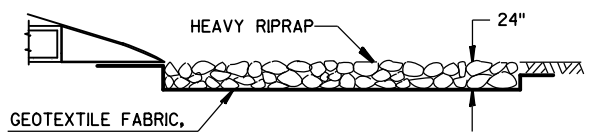
PROVIDE ASPHALTIC WEDGES PRIOR TO OPENING PAVEMENT TO TRAFFIC.

REMOVAL OF ASPHALTIC WEDGES WILL BE PAID FOR AS "REMOVING ASPHALTIC SURFACE BUTT JOINTS."

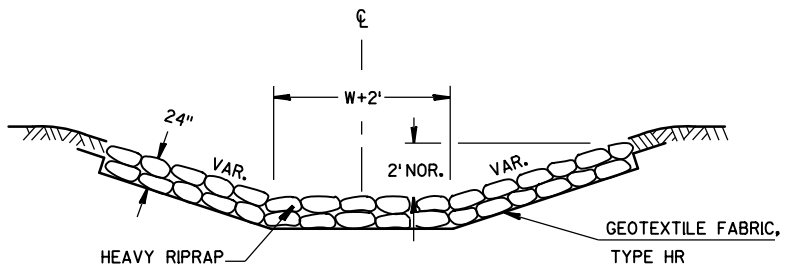
DETAIL FOR TEMPORARY WEDGE AT MANHOLES



* L = 3 TIMES DIAMETER (NOR.) OR 10' MIN. OR AS DIRECTED BY THE ENGINEER

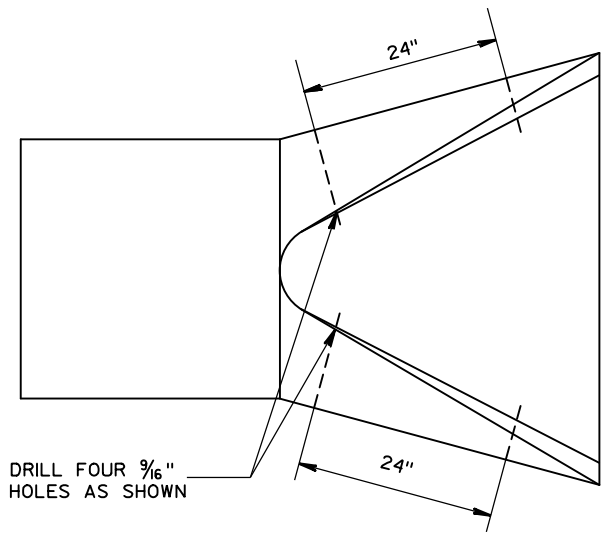


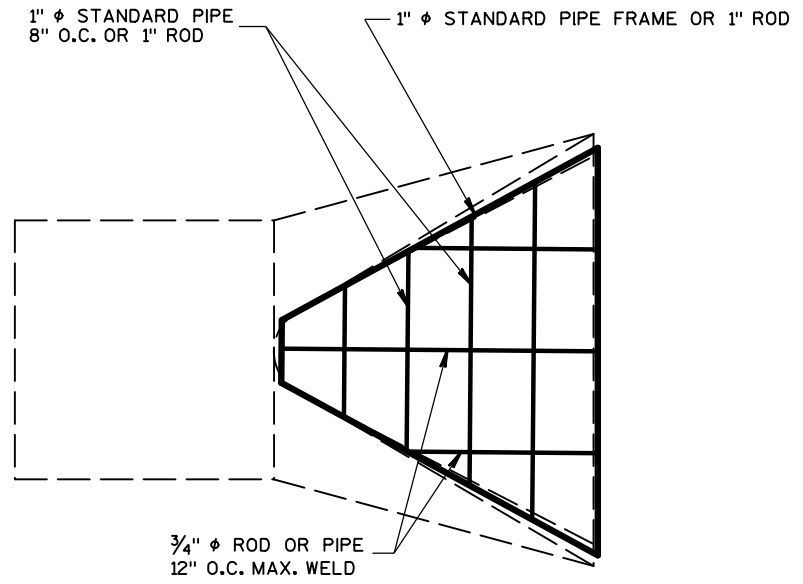
SECTION A-A



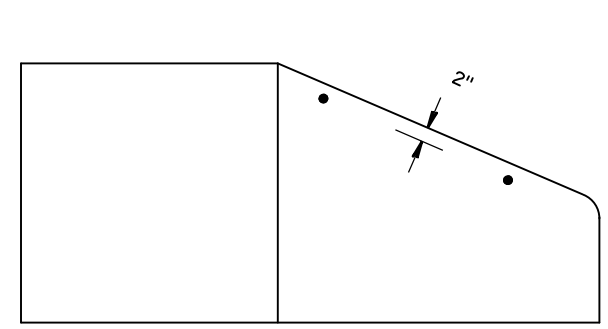
SECTION B-B

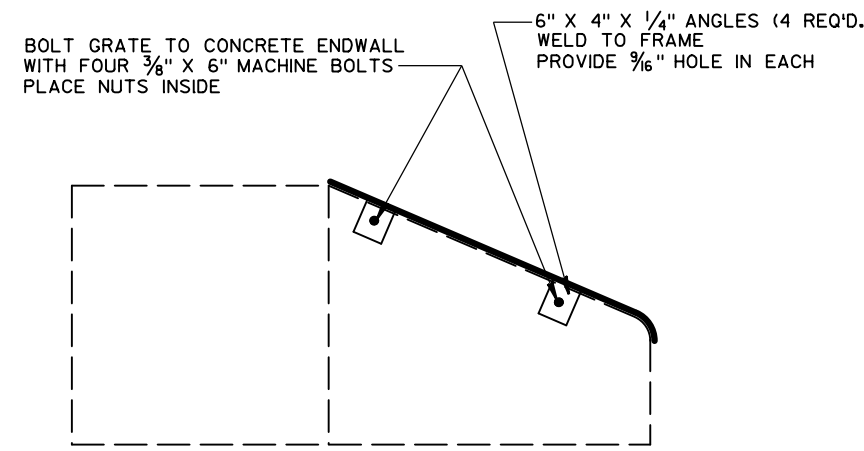
SOD, HEAVY RIPRAP AND GEOTEXTILE FABRIC DETAIL
AT APRON ENDWALLS

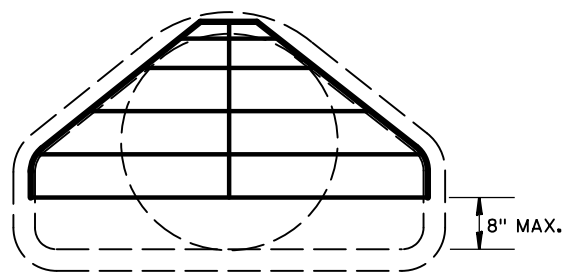




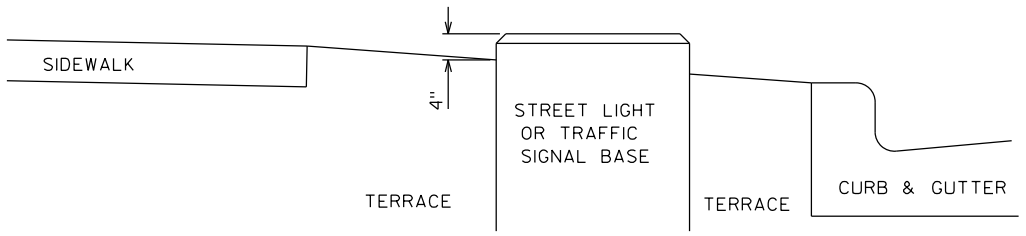
AT EACH PIPE

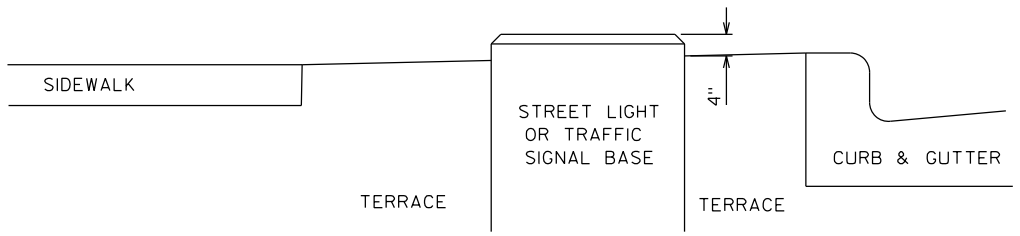


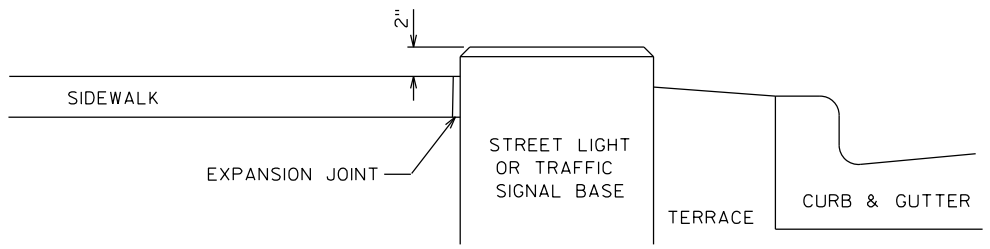


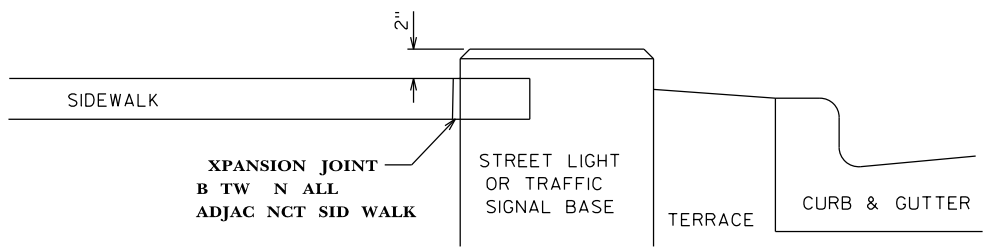


PIPE GRATE DETAIL

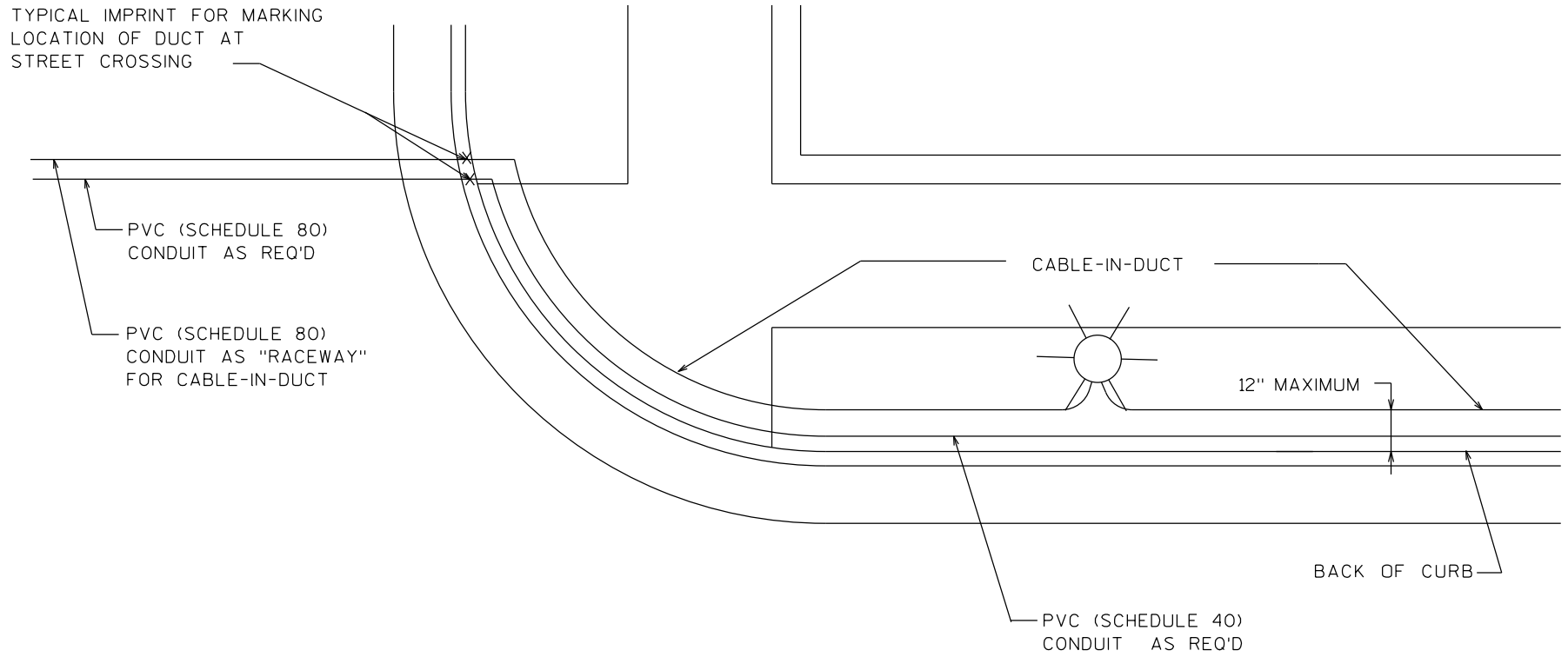








TYPICAL ELEVATIONS FOR STREET LIGHT OR TRAFFIC SIGNAL BASES

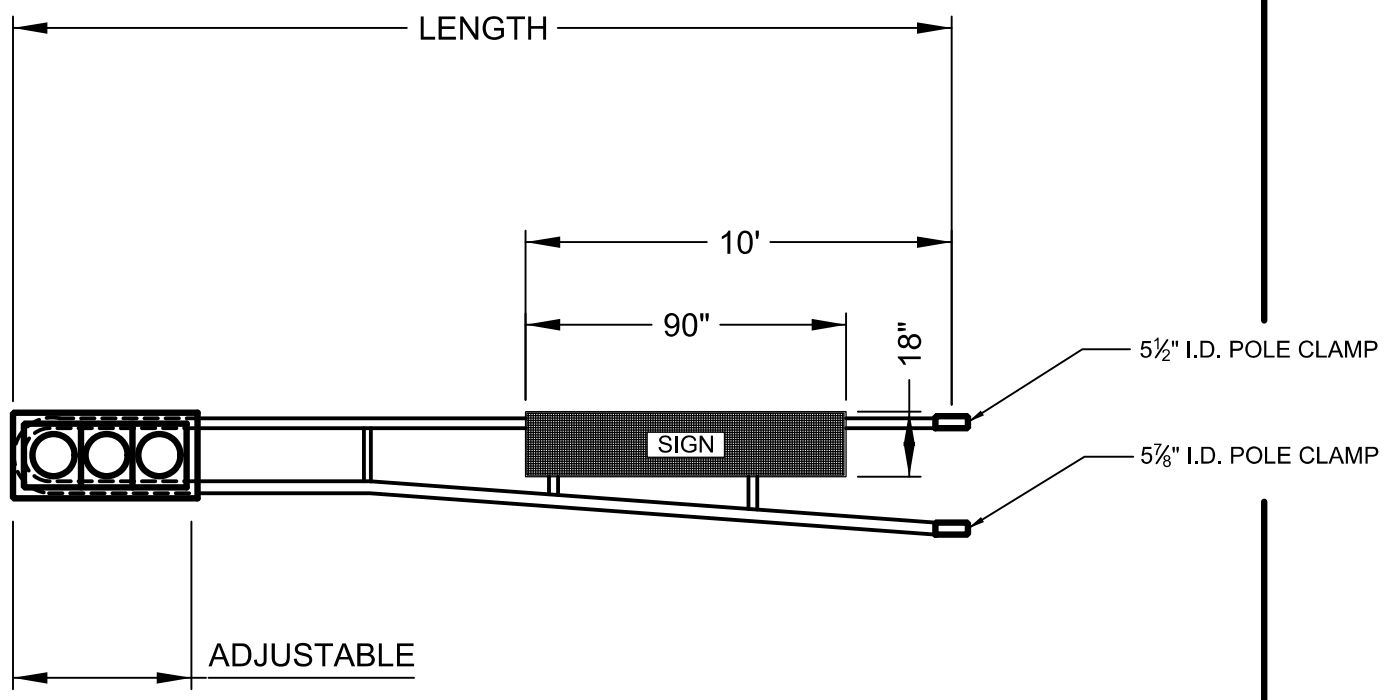


INSTALLATION DEPTH

UNDER ROADWAY 24" MINIMUM, 36" MAXIMUM

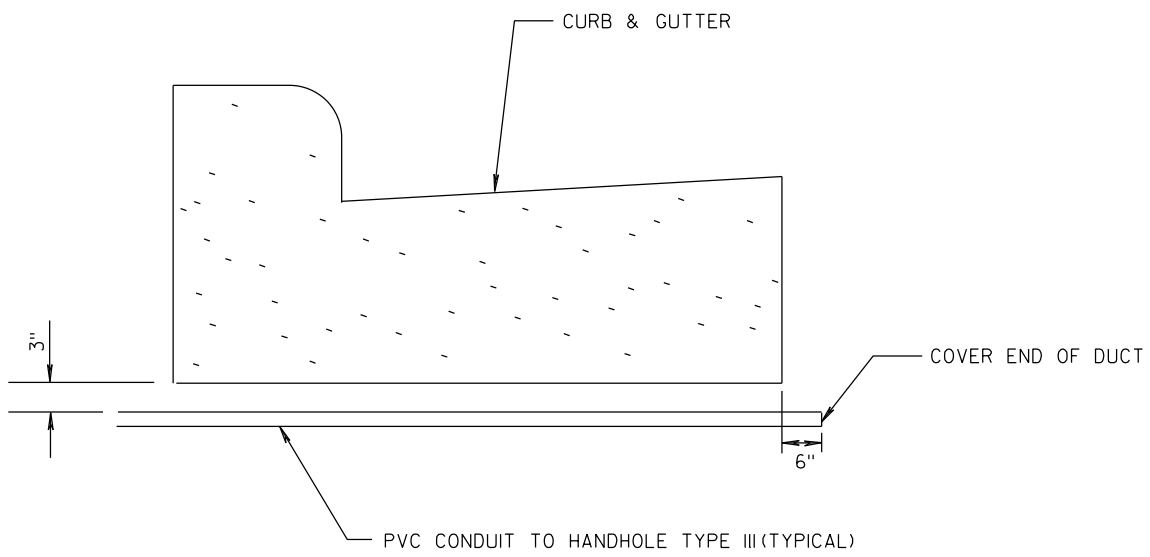
IN TERRACE OR UNDER SIDEWALK 30" MINIMUM, 36" MAXIMUM

TYPICAL PLAN VIEW OF DUCT INSTALLATION & DUCT IMPRINT LOCATION



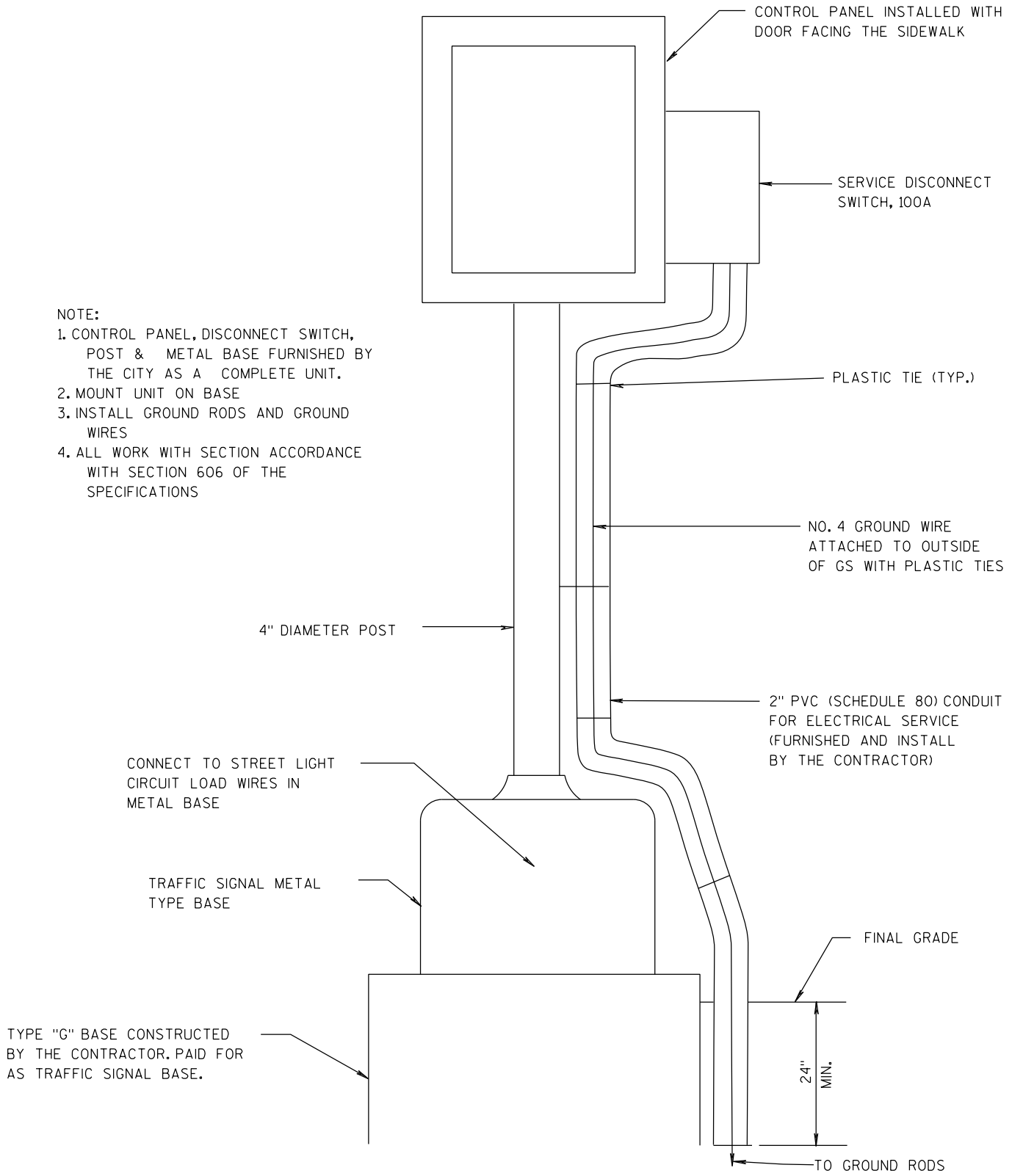
TRAFFIC SIGNAL TROMBONE ARMS ALUMINUM 15, 18, 22 - FOOT

3 SECTION, 12" SIGNAL WITH BACKPLATE AND 18"X90" ALUMINUM SIGN

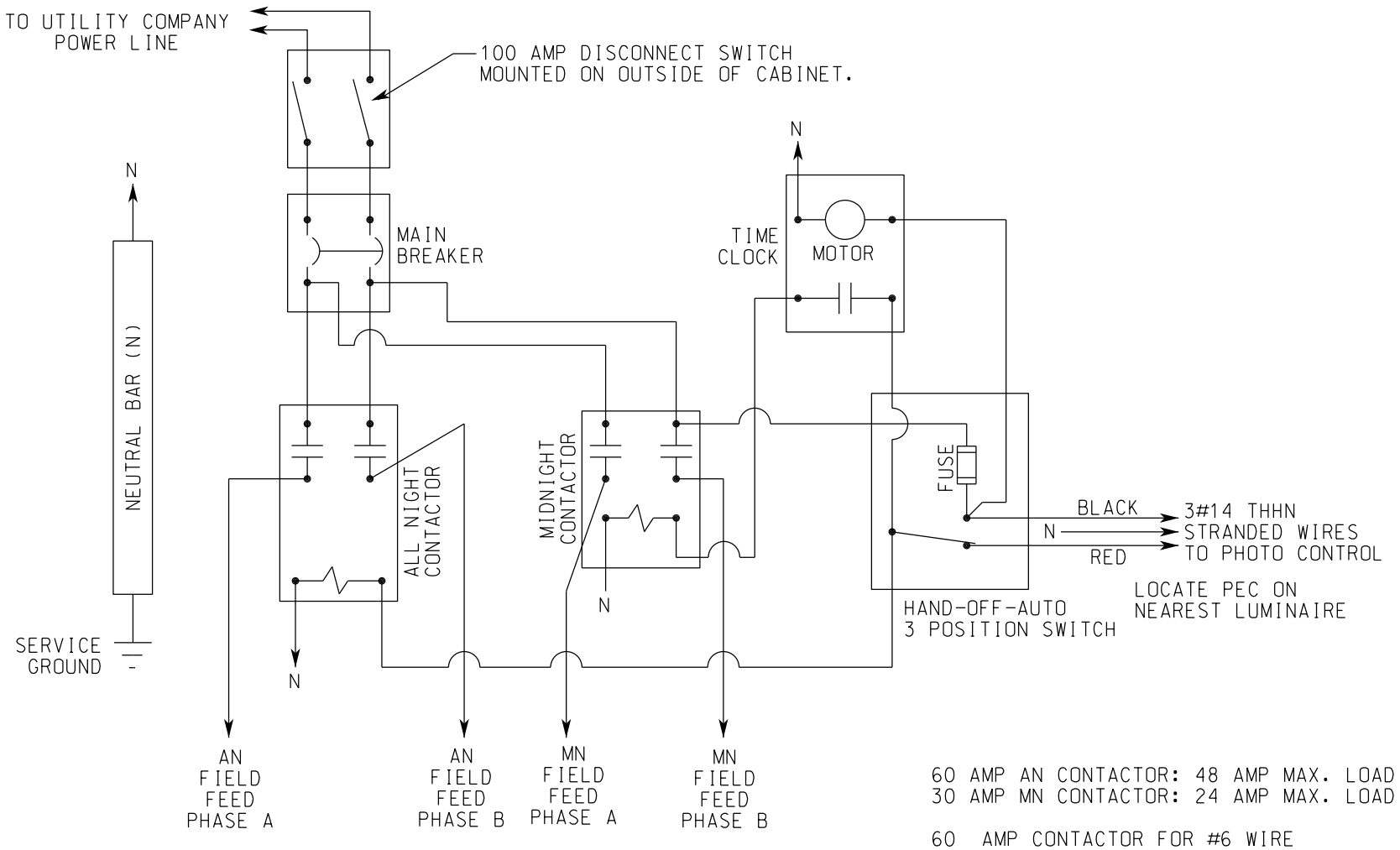


LOOP LEAD DUCT DETAIL

NOTE:
1. CONTROL PANEL, DISCONNECT SWITCH, POST & METAL BASE FURNISHED BY THE CITY AS A COMPLETE UNIT.
2. MOUNT UNIT ON BASE
3. INSTALL GROUND RODS AND GROUND WIRES
4. ALL WORK WITH SECTION ACCORDANCE WITH SECTION 606 OF THE SPECIFICATIONS



PEDESTAL MOUNTED STREET LIGHT CONTROL PANEL

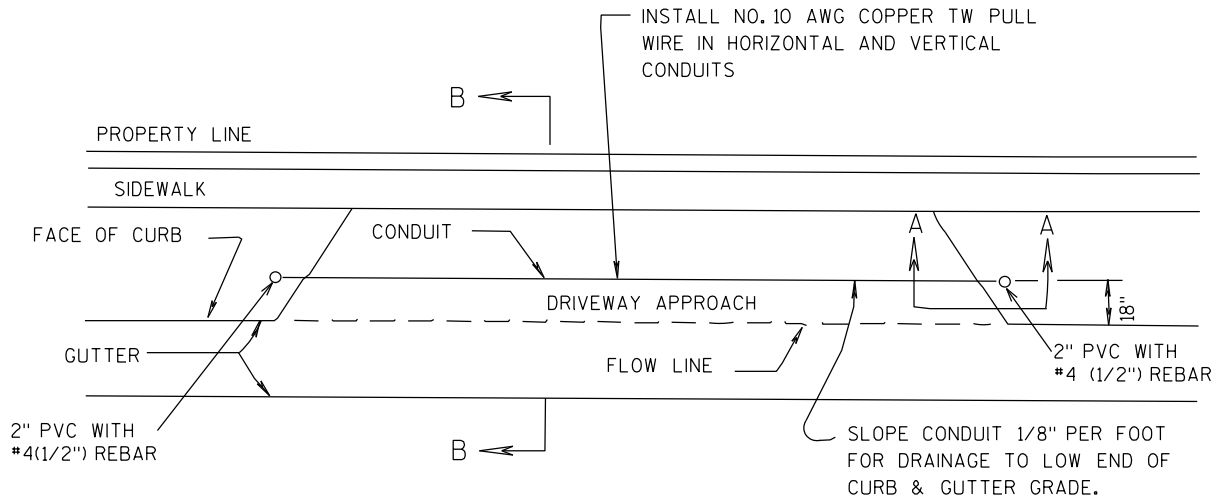


60 AMP AN CONTACTOR: 48 AMP MAX. LOAD
30 AMP MN CONTACTOR: 24 AMP MAX. LOAD

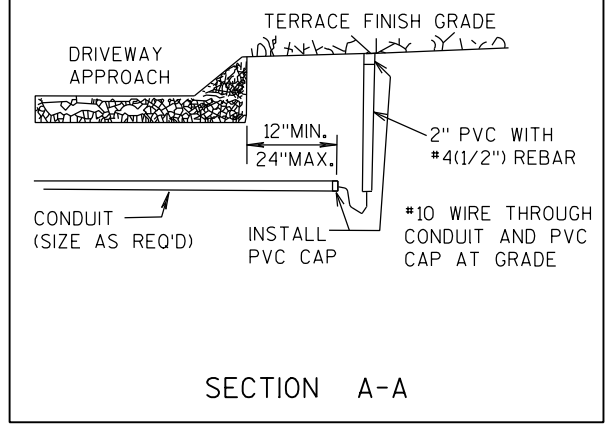
60 AMP CONTACTOR FOR #6 WIRE
100 AMP CONTACTOR FOR #4 WIRE

NOTE:
CONTRACTOR SHALL CONNECT CIRCUIT WIRING IN SUCH A MANNER TO BALANCE THE LOAD BETWEEN PHASE A AND B AS CLOSE AS POSSIBLE AND AS DIRECTED BY THE ENGINEER.

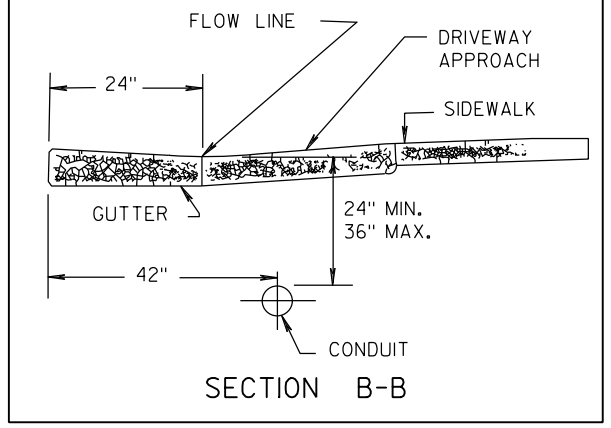
120V STREET LIGHT CONTROL PANEL ELECTRICAL SERVICE DETAIL



PLAN VIEW



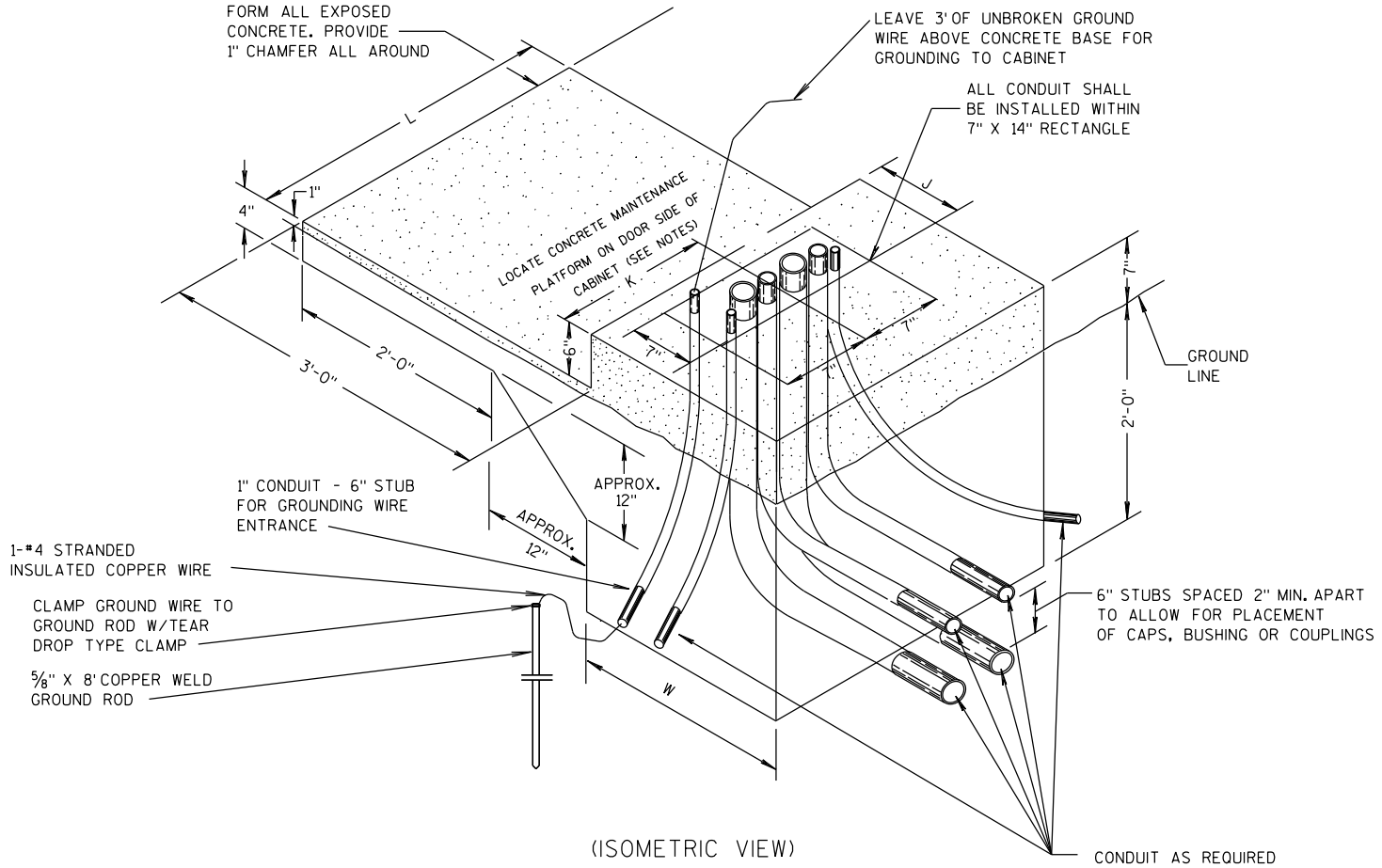
SECTION A-A



SECTION B-B

BEFORE CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING SHOP, ELECTRICAL SECTION, (608-266-4767) TO ARRANGE FOR INSPECTION OF THE DUCT PLACEMENT.

CONDUIT PLACEMENT DETAILS FOR COMMERCIAL DRIVE APPROACHES



(ISOMETRIC VIEW)

CONCRETE CONTROL CABINET BASES

TYPE "M" AND "P" CONTROLLER BASE DETAIL

GENERAL NOTES

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

ALL CONDUIT SHALL BE PVC, SCHEDULE 40

DEPTH OF CONDUIT EXITING THE BASE SHALL MATCH THE DEPTH SPECIFIED FOR CONDUIT INSTALLATION.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED AND LEVEL.

MAINTENANCE PLATFORM SHALL NOT BE INSTALLED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

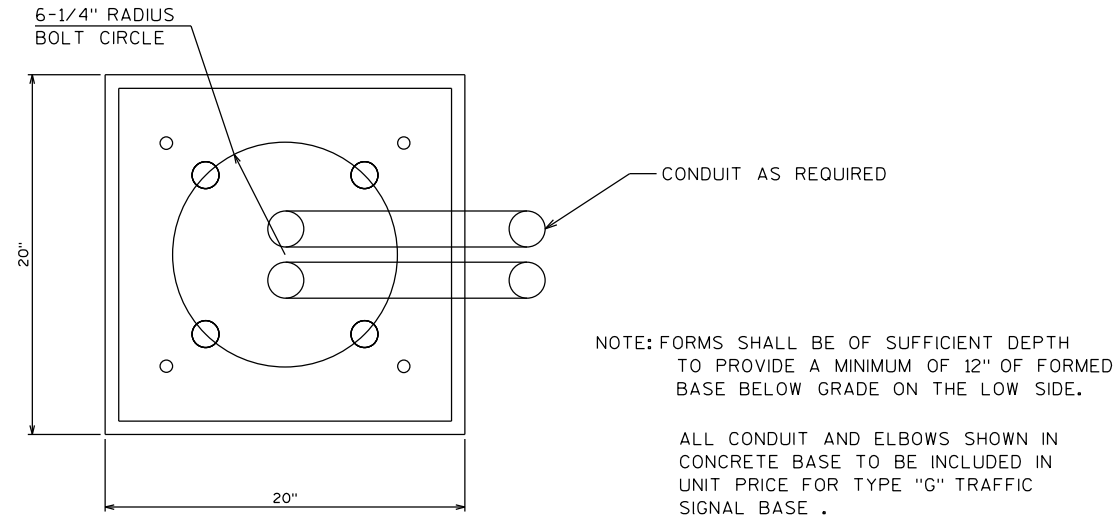
ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MINIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

CONDUITS SHALL EXIT THE BASE IN THE DIRECTION OF THE STRUCTURE IT IS TERMINATING INTO.

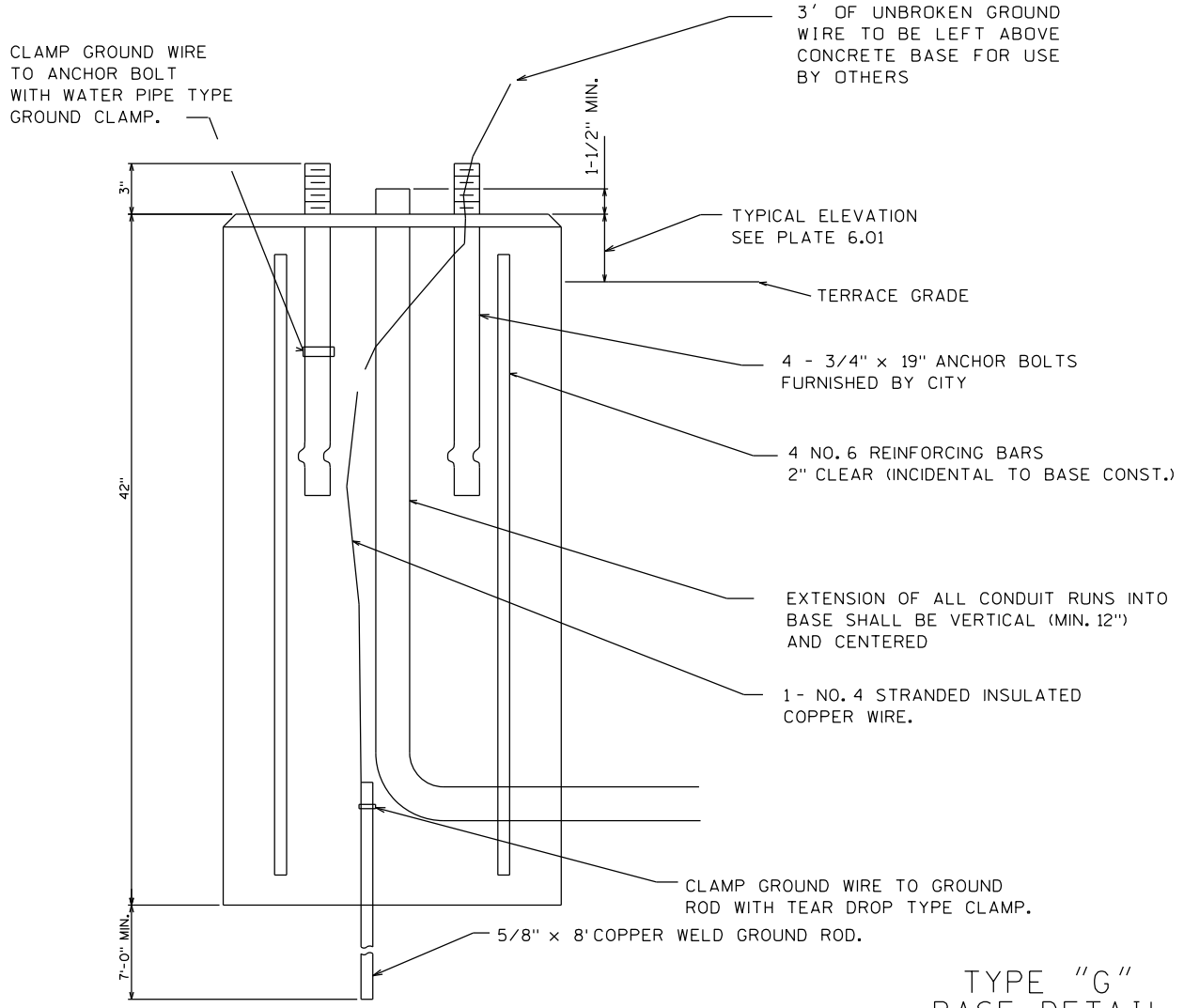
MAINTENANCE PLATFORM SIZE MAY VARY ON ACCOUNT OF CONDITIONS. VERIFY THE MAINTENANCE PLATFORM SIZE WITH ENGINEER PRIOR TO POURING BASE.

CONTROL CABINET BASE TYPE	DIMENSIONS				C.Y. CONCRETE (APPROX.)
	L	W	J	K	
TYPE M	40"	30"	12"	20"	.823
TYPE P	48"	30"	16"	24"	1.179
TYPE M MODIFIED	-	-	-	-	-
TYPE P MODIFIED	-	-	-	-	-
TYPE OTHER	-				-



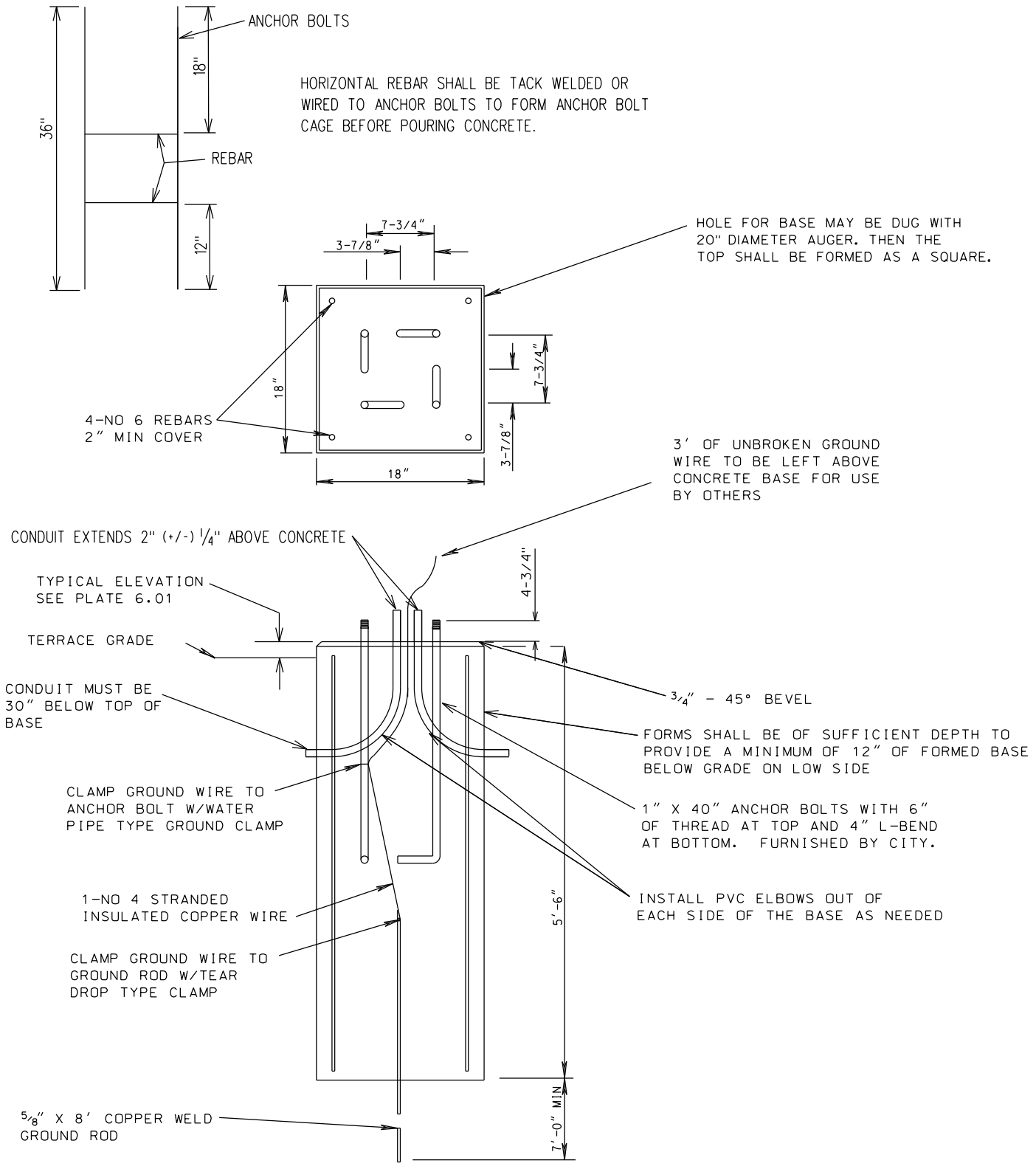
NOTE: FORMS SHALL BE OF SUFFICIENT DEPTH TO PROVIDE A MINIMUM OF 12" OF FORMED BASE BELOW GRADE ON THE LOW SIDE.

ALL CONDUIT AND ELBOWS SHOWN IN CONCRETE BASE TO BE INCLUDED IN UNIT PRICE FOR TYPE "G" TRAFFIC SIGNAL BASE .



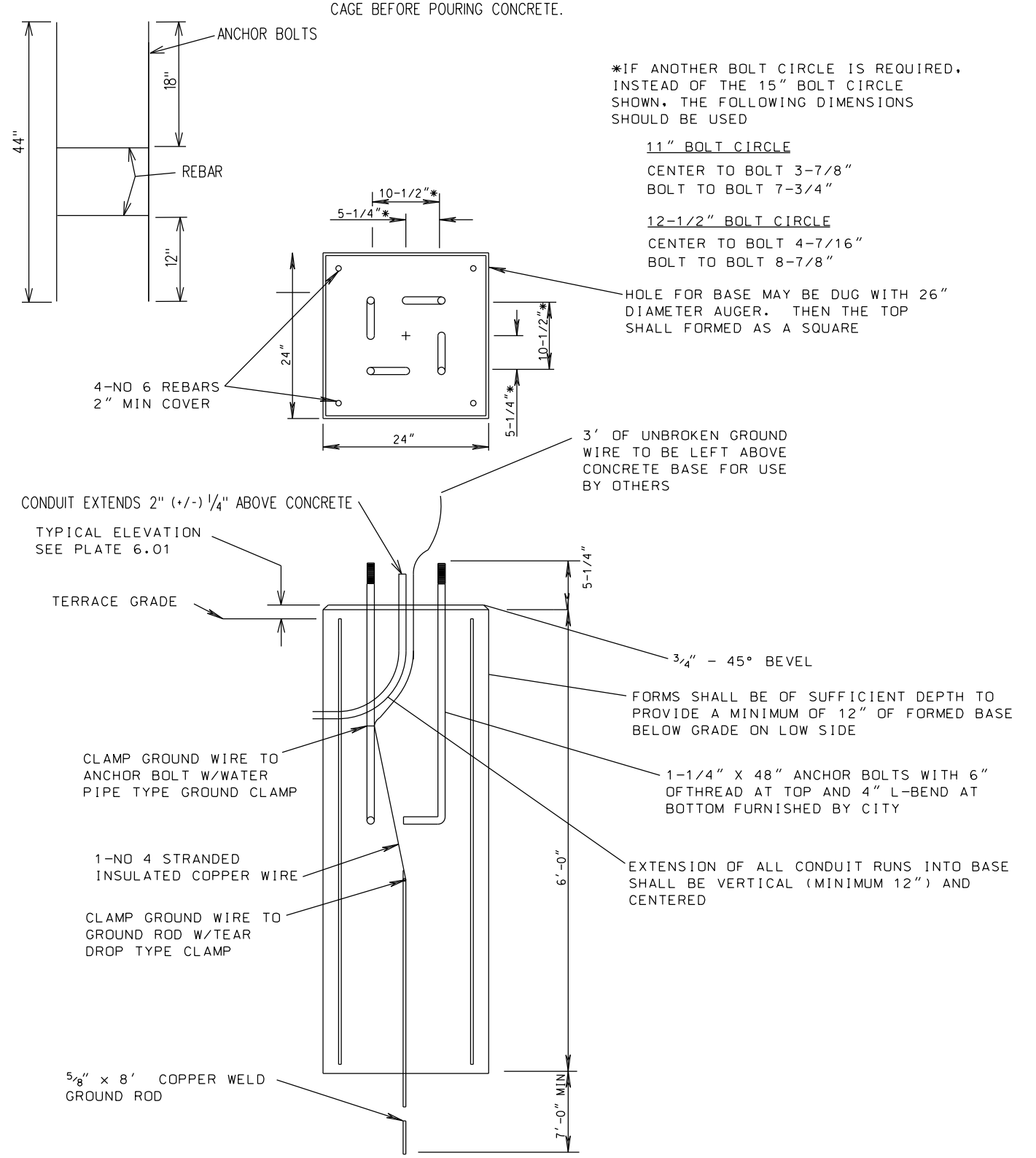
TYPE "G" BASE DETAIL

TYPE "G" BASE DETAIL

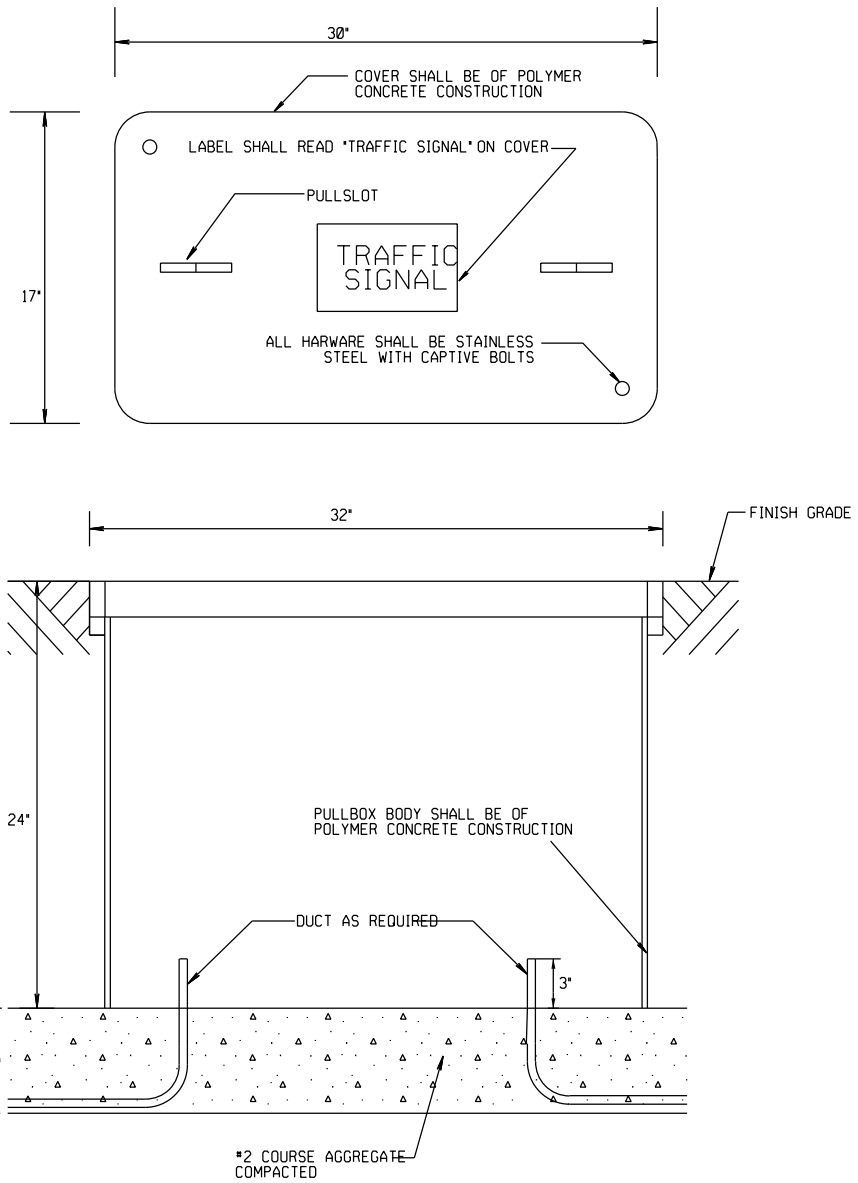


LB-3 BASE DETAIL

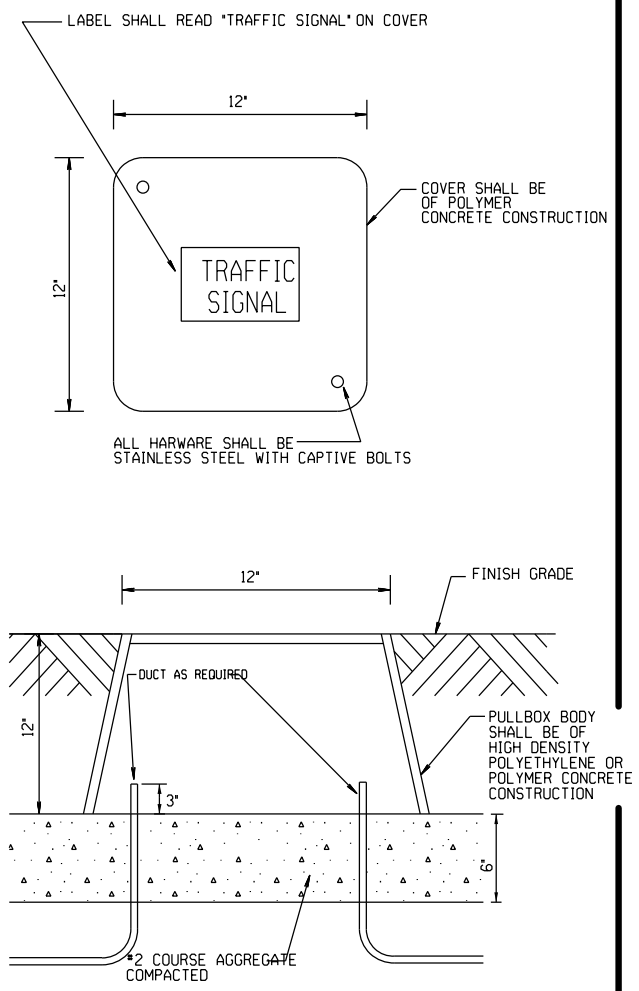
HORIZONTAL REBAR SHALL BE TACK WELDED OR WIRED TO ANCHOR BOLTS TO FORM ANCHOR BOLT CAGE BEFORE POURING CONCRETE.



LB-8 BASE DETAIL

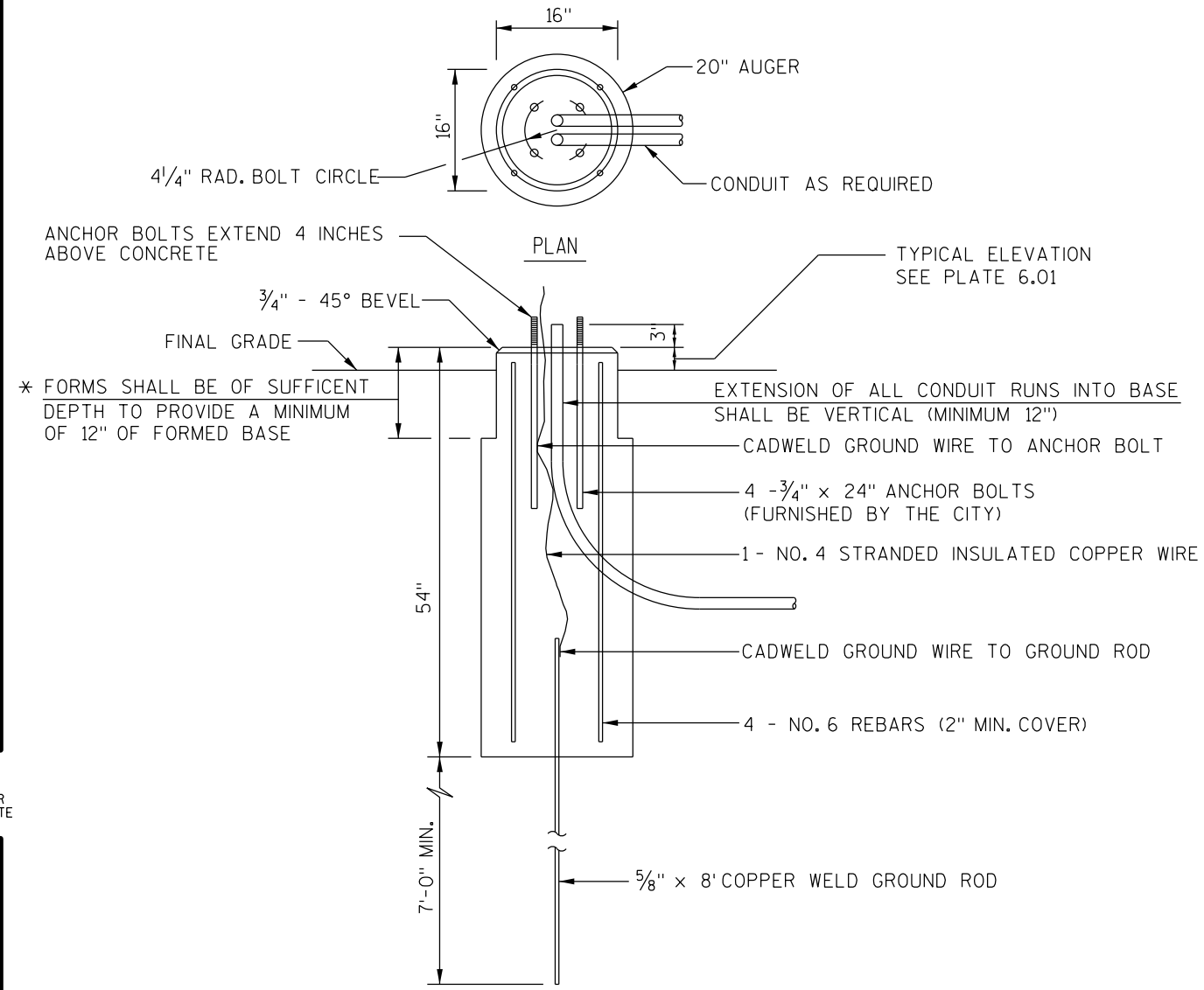


TYPE I PULLBOX DETAIL



TYPE III PULLBOX DETAIL

* TOP 12" OF FORMED BASE TO BE ROUND,
16" DIAMETER AS SHOWN, OR DIRECTED BY THE ENGINEER.



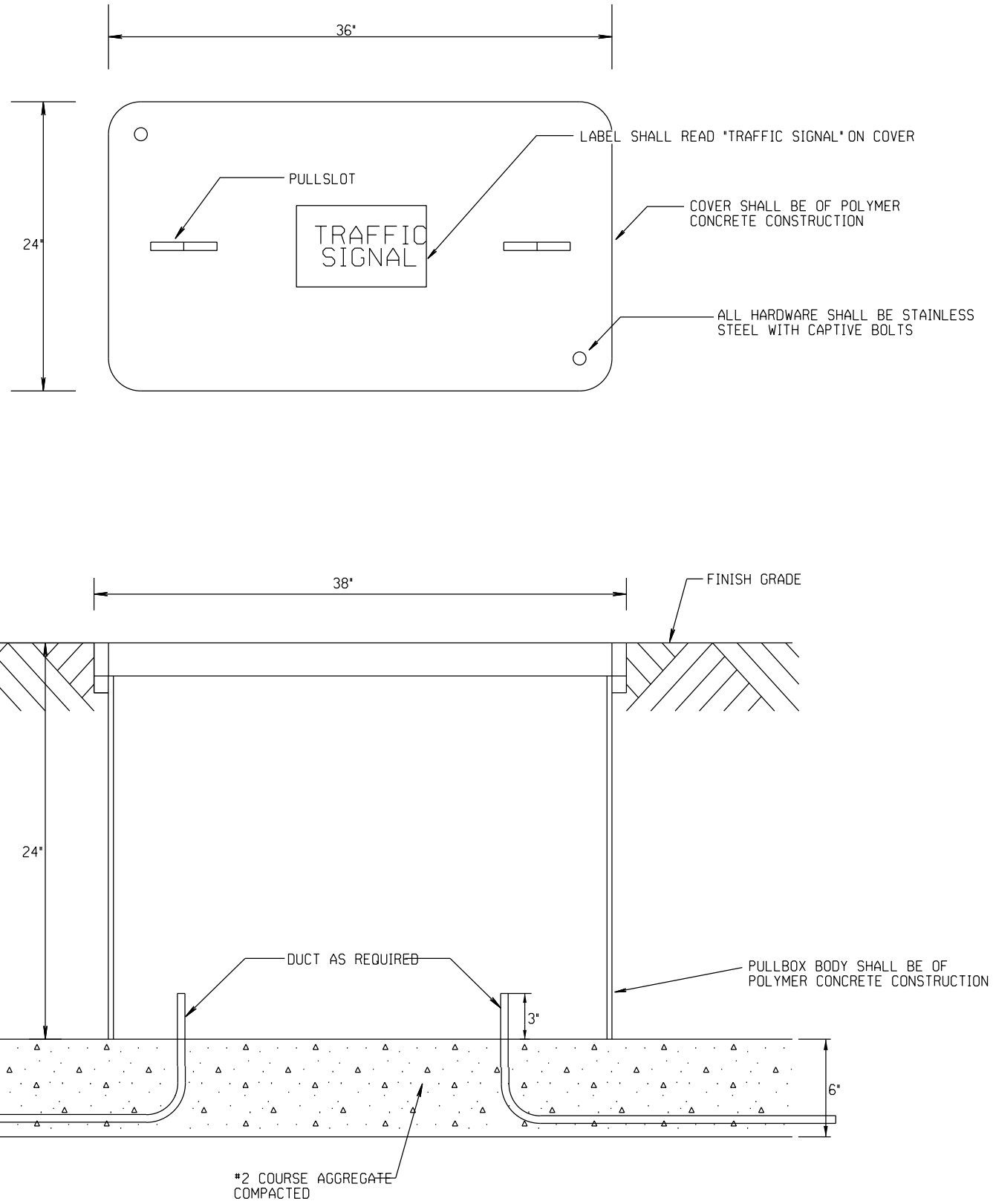
ELEVATION

NOTES:

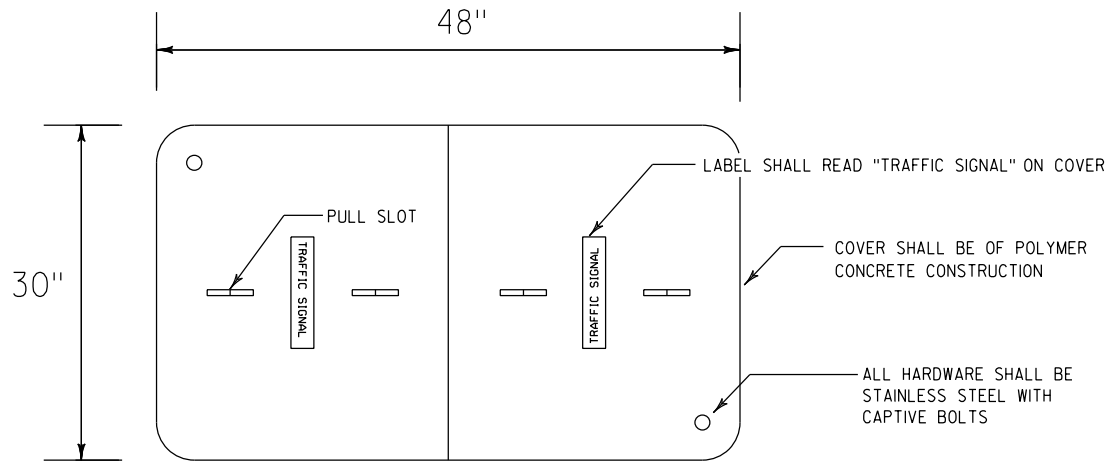
RUST, CORROSION AND ANTI-SEIZE PROTECTION SHALL PROVIDED AT ALL THREADED ASSEMBLIES.

ROD COUPLERS SHALL BE SET FLUSH WITH TOP OF BASE.

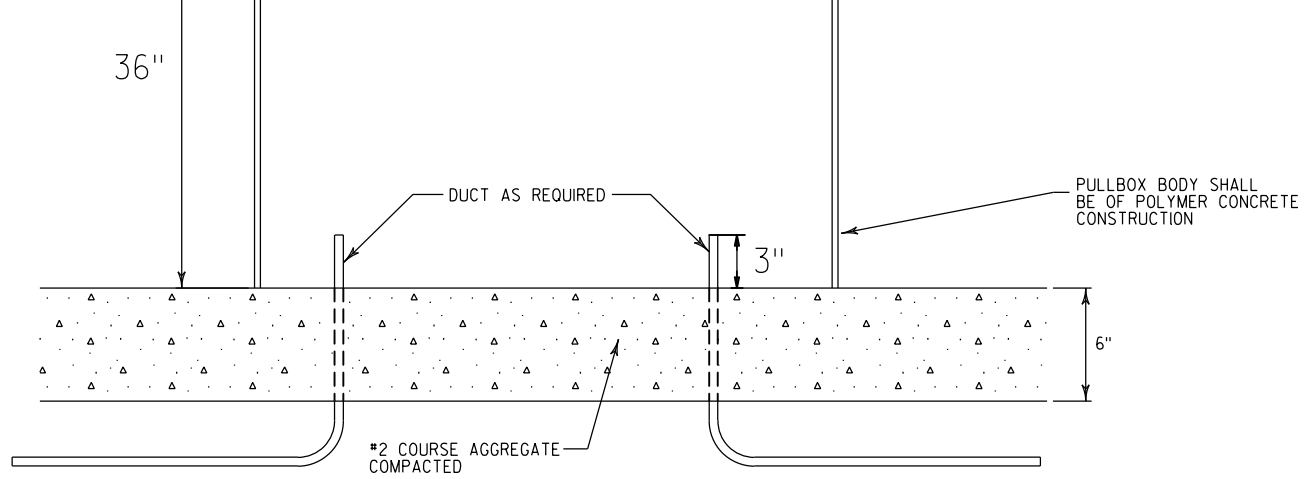
LB-2 BASE DETAIL



TYPE V PULLBOX DETAIL



*15,000 LBS MAXIMUM LOAD OVER A 10" X 10" TEST AREA RATING FOR COVER AND BOX



TYPE VII PULLBOX DETAIL

PROJECT NO: 5992-10-32	HWY: GAMMON	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET 48	E

2

MALL ROAD

ASPHALT PARKING

STA. 208+21.38'NB'
500.64' LT
Y 475304.914
X 788918.557

CP*3
CHISELED X

asphalt parking

EXISTING R/W

GAMMON ROAD

209+00'NB'

195+00'WBF'

208+00'NB'

grass

STA. 208+62.02'NB'
49.27' RT
Y 475331.620
X 789469.320

CP*GAM2
CHISELED X IN SIDEWALK

EXISTING R/W

MH

Conc

SIGN

196+00'WBF'

OFF RAMP

197

OFF RAMP

214+00'SB'

214+00'NB'

213+00'SB'

213+00'NB'

GAMMON ROAD

grass

Concrete Walk

CP*GAM3
CHISELED X
IN SIDEWALK

STA. 213+26.58'NB'
35.22' RT
Y 475793.863
X 789483.118

EXISTING R/W

Asphalt Parking

2

222+00'SB'

222+00'NB'

221+00'SB'

221+00'NB'

GAMMON ROAD

grass

Concrete Walk

CP*GAM4
CHISELED X IN SIDEWALK

STA. 221+52.34'NB'
32.19' RT
Y 476621.067
X 789504.483

EXISTING R/W

226+00'SB'

225+00'SB'

GAMMON ROAD

grass

walk

226+00'NB'

225+00'NB'

EXISTING R/W

Concrete Walk

STA. 225+54.49'NB'
34.82' RT
Y 477023.055
X 789516.312

CP*GAM5
CHISELED X IN SIDEWALK

Concrete Walk

GAMMON PLACE

601+00'GP'

STA. 42+27.44'BF'
4.99' LT
Y 475336.294
X 789815.951

CP*5
CHISELED X

SIGN

42+00'BF'

GRAND CANYON DR.

EXISTING R/W

chain link fence

300+00'BP'

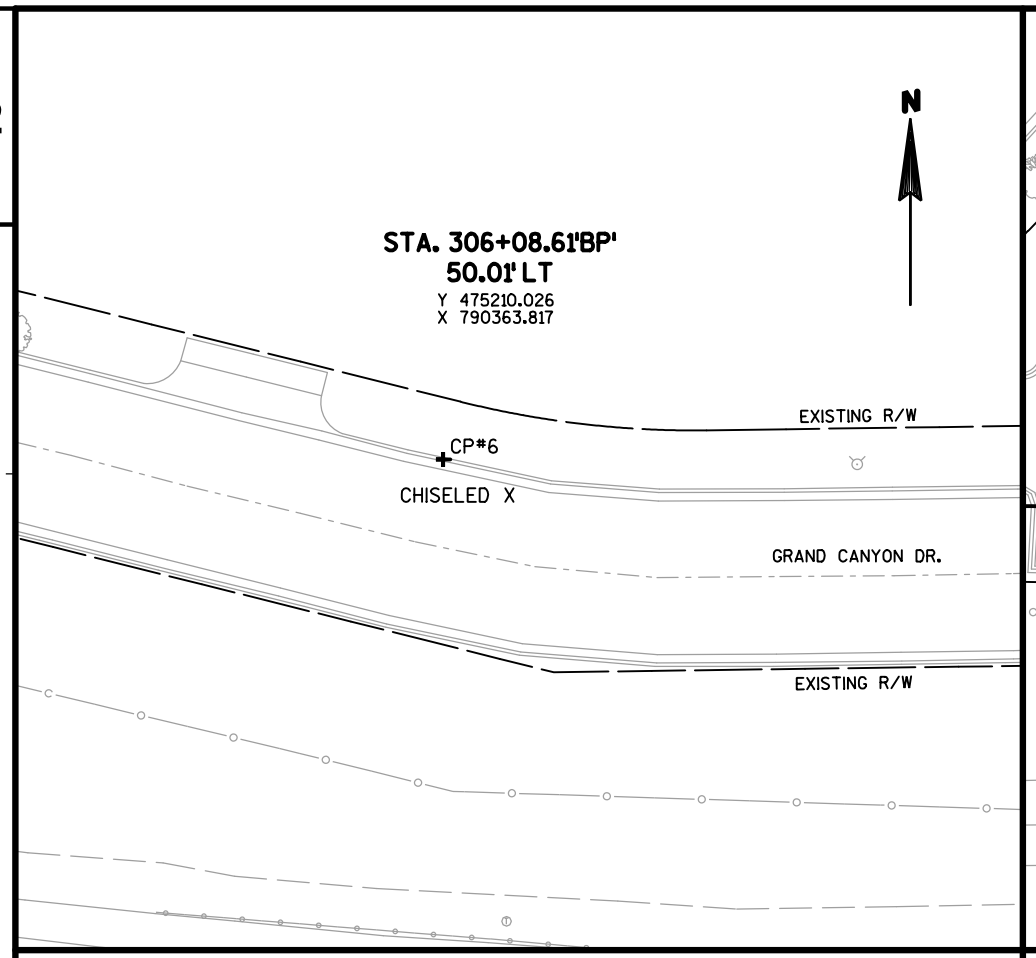
41+00'BF'

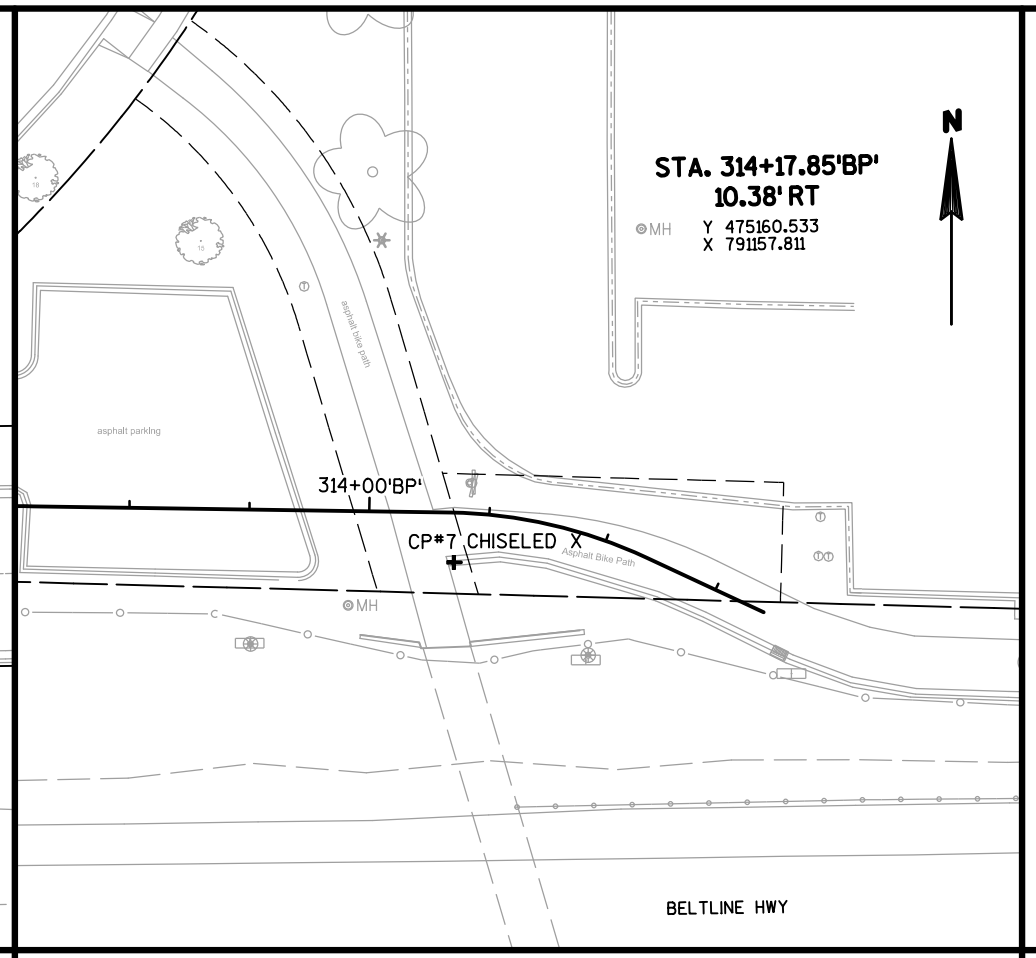
PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONTROL POINTS	SHEET 49	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\021020_CD.dgn

PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42





2

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONTROL POINTS	SHEET 50	E

PAVING DETAIL LEGEND

AP03	3" ASPHALTIC SURFACE
AP35	3.5" ASPHALTIC SURFACE
AP04	4" ASPHALTIC SURFACE
AP45	4.5" HMA PAVEMENT 4 MT 58-28 H (TWO LAYERS)
AP675	6.75" HMA PAVEMENT
BAD-S	BASE AGGREGATE DENSE 3/4-INCH (SHOULDER)
CCP	CONCRETE CURB PEDESTRIAN
18DS	CONCRETE CURB AND GUTTER 18-INCH TYPE D SPECIAL
24AS	CONCRETE CURB AND GUTTER 24-INCH TYPE A SPECIAL
24DS	CONCRETE CURB AND GUTTER 24-INCH TYPE D SPECIAL
30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A
30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D
30DS	CONCRETE CURB AND GUTTER 30-INCH TYPE D SPECIAL
GUTTR	CONCRETE GUTTER 24-INCH TYPE D SPECIAL
MO-2	MILL & OVERLAY 2" ASPHALTIC SURFACE
MOW	8' CURB CUT FOR MOWER ACCESS TO MEDIAN (SEE DETAIL)

ICD	ISLAND CORNER DETAIL (PER SDD 9A1b)
CMBN	CONCRETE MEDIAN BLUNT NOSE
CMSN	CONCRETE MEDIAN SLOPED NOSE, TYPE 1
CP-9	CONCRETE PAVEMENT 9-INCH
DOWEL	DRILLED DOWEL BARS (ANCHORED INTO EXISTING CONCRETE PAVEMENT, 15" CENTER TO CENTER, PER SDD 13C9-b)
TIE	DRILLED TIE BARS (ANCHORED INTO EXISTING CONCRETE PAVEMENT, 2'-6" CENTER TO CENTER, PER SDD 8D1-b)
DRWY	CONCRETE DRIVEWAY 7-INCH
SW05	CONCRETE SIDEWALK 5-INCH
SW07	CONCRETE SIDEWALK 7-INCH
ARCH	ARCHITECTURAL CONCRETE PAVEMENT 5-INCH
	CURB RAMP DETECTABLE WARNING FIELD
MGS-2	MGS GUARDRAIL TERMINAL TYPE 2
MGS-3	MGS GUARDRAIL 3
JOINT	MATCH EXISTING JOINT LINE
XXXXX	SAWCUT

2

2

N

RETAINING WALL
R-13-338

RETAINING WALL
R-13-339

WB ON RAMP

399+00'WBO'

400+00'WBO'

295+00'BP'

296+00'BP'

297+00'BP'

298+00'BP'

195+00'WBF'

196+00'WBF'

209+00'BC'

210+00'BC'

209+00'SW'

210+00'SW'

205+00'SB'

206+00'SB'

207+00'SB'

208+00'SB'

209+00'SB'

210+00'SB'

205+00'NB'

206+00'NB'

207+00'NB'

208+00'NB'

210+00'NB'

GAMMON RD

GRASS

asphalt Drive

concrete walk

Concrete Walk

conc

AP45
BAD-S
30D
30A
TIE
JOINT
SW05
CP-9
CCP
AP675
SW07
CMBN
CMSN
ICD
SAW NEW JOINT
AP03
30DS
24DS

REMOVALS REQ'D FOR CONSTRUCTION STAGING

PEDESTRIAN UNDERPASS B-13-870

WB OFF RAMP

12'
18'
10'
VAR.
11'

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	PAVING DETAILS - GAMMON RD SCALE, FEET 0 20 40	SHEET 52 E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\021203_PD_Gammon.dgn

PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

2

N

asphalt Drive

MATCH EXISTING
CURB CUT

RETAINING WALL
R-13-339

RETAINING WALL
R-13-343

Asphalt parking

Asphalt parking

211+00'BC'

211+00'SW'

212+00'SW'

213+00'SW'

214+00'SW'

215+00'SW'

216+00'SW'

34+00'BD'

35+00'BD'

216+00'MAB'

211+00'SB'

212+00'SB'

213+00'SB'

214+00'SB'

215+00'SB'

216+00'SB'

211+00'NB'

212+00'NB'

213+00'NB'

214+00'NB'

215+00'NB'

216+00'NB'

SW07

SW05

AP03

AP675

30DS

24DS

MOW

GRASS

GAMMON RD

CMBN

ARCH

DRWY

11'

11'

11'

10'

10'

11'

11'

12'

5'

Concrete Walk

Asphalt Parking

Asphalt Parking

Asphalt Parking

Asphalt Drive

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	PAVING DETAILS - GAMMON RD SCALE, FEET 0 20 40	SHEET 53	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\021204_PD_Gammon.dgn PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

2

CURB & GUTTER TRANSITION PAID FOR AS "CONCRETE CURB AND GUTTER 30-INCH TYPE D SPECIAL".

N

WEST TOWNE MALL ENTRANCE

799+00'MA'

SURFACE BY OTHERS
(SEE SPECIAL PROVISIONS)

Asphalt parking

SW07 30DS SW07 SW07 AP675 CMSN

10.5' 11' 10.5'

217+00'MAB' AP675 AP03 216+00'SW' AP03 SW07 ARCH 18DS

216+00'MAB' 217+00'SW' CMBN 18DS ARCH ARCH

30DS AP675 CCP CCP ICD CMSN

18DS SW05 SW07 AP03 30DS AP03

11' 12' 11' AP675

8.5'

216+00'SB' 217+00'SB' 218+00'SB' 219+00'SB' 220+00'SB' 221+00'SB'

11' 11' 11' 11' 11' 11' 11' 10' 10' 10' 12'

24DS GAMMON RD CMSN ARCH AP675 MOW GRASS

216+00'NB' 217+00'NB' 218+00'NB' 219+00'NB' 220+00'NB' 221+00'NB'

AP675 30DS SW05 30DS CMSN 12' 11' 13' 11' AP675 AP675 SW05 30DS GRASS

Concrete Walk Asphalt Drive DRWY 30DS SW07 DRWY Concrete Walk SW05

10'

501+00'OD' ODANA RD SS

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	PAVING DETAILS - GAMMON RD SCALE, FEET 0 20 40	SHEET 54	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\021205_PD_Gammon.dgn PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

2

CURB & GUTTER TRANSITION PAID FOR AS "CONCRETE CURB AND GUTTER 30-INCH TYPE D SPECIAL".

N

WEST TOWNE MALL ENTRANCE

899+00'MB'

Asphalt parking

Asphalt parking

asphalt parking

asphalt parking

GAMMON RD

GRASS

GRASS

GRASS

GAMMON RD

222+00'SB'

223+00'SB'

224+00'SB'

225+00'SB'

226+00'SB'

227+00'SB'

222+00'NB'

223+00'NB'

224+00'NB'

225+00'NB'

226+00'NB'

227+00'NB'

601+00'GP'

GAMMON PL

Concrete Walk

Concrete Walk

Concrete Walk

Concrete Walk

Concrete Walk

SW05 SW07 18DS AP03 30DS AP675 24DS MOW ARCH CCP CMSN

12' 12' 11' 18' 8.5' 4.5'

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	PAVING DETAILS - GAMMON RD SCALE, FEET 0 20 40	SHEET 55	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\021206_PD_Gammon.dgn PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

N

MINERAL POINT RD

AP03 AP03 AP03

30DS

4.5'

asphalt parking asphalt parking asphalt parking asphalt parking

CONCRETE WALK

AP675

11' 11' 11' 11'

228+00'SB' 229+00'SB' 230+00'SB' 231+00'SB' 232+00'SB' 233+00'SB'

MOW AP675 24DS TIE 24AS

24DS

GRASS GAMMON RD GRASS

PATH & CURB RAMP BY OTHERS

grass

24DS CP-9

228+00'NB' 229+00'NB' 230+00'NB' 231+00'NB' 232+00'NB' 233+00'NB'

AP675 24AS TIE 24AS

11' 11' 11' 12'

TIE DOWEL

AP675

GAMMON RD

Concrete Walk Concrete Walk Concrete Walk Concrete Walk

SIGN SIGN

30DS

MINERAL POINT RD

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	PAVING DETAILS - GAMMON RD SCALE, FEET 0 20 40	SHEET 56	E

2

2

RETAINING WALL
R-13-339

RETAINING WALL
R-13-338

TEMPORARY SHORING
LEFT-IN PLACE

BAD-S

AP03

AP03

293+00'BP'

294+00'BP'

295+00'BP'

296+00'BP'

297+00'BP'

298+00'BP'

209+00'BC'

209+00'SW'

209+00'SB'

209+00'NB'

210+00'BC'

210+00'SW'

210+00'SB'

210+00'NB'

208+00'SB'

208+00'NB'

207+00'SB'

207+00'NB'

399+00'WBO'

400+00'WBO'

195+00'WBF'

196+00'WBF'

197+00'WB

WB ON RAMP

WB OFF RAMP

GAMMON RD

GAMMON RD

PEDESTRIAN
UNDERPASS
B-13-870

REMOVALS REQ'D FOR
CONSTRUCTION STAGING

10'

10'

10'

asphalt Drive

concrete walk

Concrete Walk

POST

SS

SIGN

NOTE:
SEE OTHER SHEETS FOR GAMMON
ROAD AND RAMP PAVING DETAILS

N

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	PAVING DETAILS - BIKE PATH 'BP' LINE SCALE, FEET 0 20 40	SHEET 57	E

2

2

N

SIDEWALK &
CURB RAMP
BY OTHERS

TEMPORARY SHORING LEFT IN PLACE

RETAINING WALL
R-13-341

PEDESTRIAN
UNDERPASS
B-13-870

RETAINING WALL
R-13-340

GRAND CANYON DR.

conc apron

conc apron

chain line

chain line fence

SIGN

298+00'BP'

299+00'BP'

300+00'BP'

301+00'BP'

302+00'BP'

303+00'BP'

304+00'BP'

42+00'BF'

41+00'BF'

AP03

AP03

AP03

10'

8'

5'

30A

MGS-2

REMOVE TYPE 2
ANCHORAGE

MGS-3

GUTTR

CP-9

DOWEL

DOWEL

CP-9

12'

12'

197+00'WBF'

198+00'WBF'

199+00'WBF'

200+00'WBF'

WB OFF RAMP

EXISTING MGS
TO REMAIN

JOINT
TIE

TIE

MH

MH

SS

SS

30A

EXISTING MGS
TO REMAIN

SIGN

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	PAVING DETAILS - BIKE PATH 'BP' LINE SCALE, FEET 0 20 40	SHEET 58	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\021212_PD_Bike Path.dgn

PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

2

N

GRAND CANYON DR.

conc
conc apron

conc
conc apron

conc
conc apron

conc
conc apron

CP

CP

304+00'BP'

305+00'BP'

306+00'BP'

307+00'BP'

308+00'BP'

309+00'BP'

310+00'B

5'

5'

AP03

AP03

chain link fence

RETAINING WALL
R-13-342

USH 12/14

313+00'EB0'

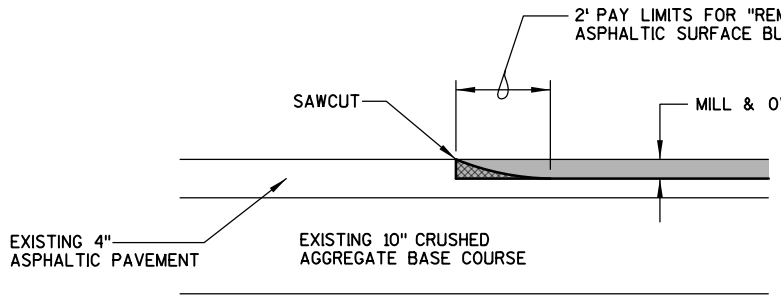
312+00'EB0'

PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	PAVING DETAILS - BIKE PATH 'BP' LINE SCALE, FEET 0 20 40	SHEET 59	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\021213_PD_Bike Path.dgn

PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:40

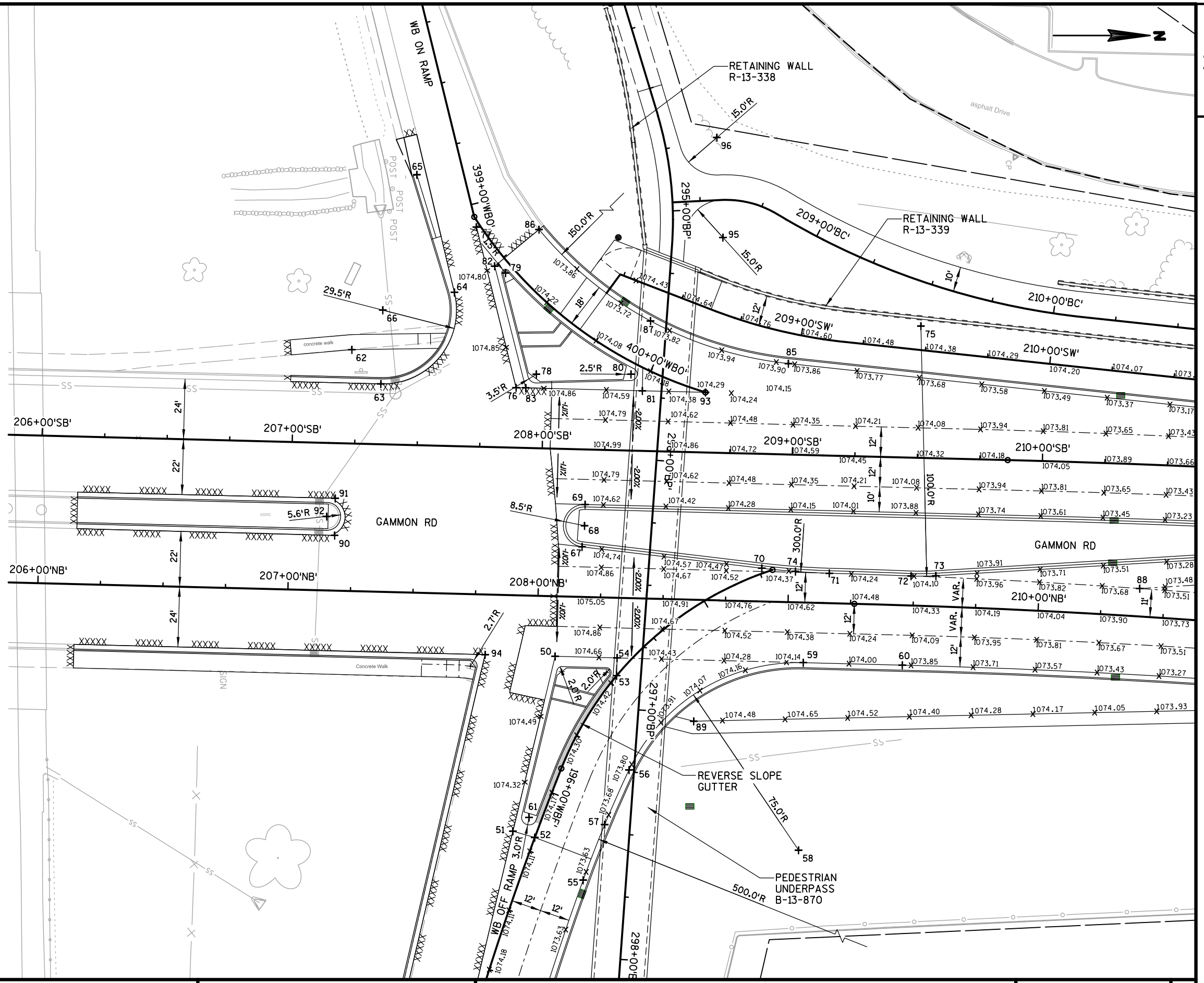
WISDOT/CADDS SHEET 42



SECTION A-A

PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	PAVING DETAILS - BIKE PATH 'BP' LINE SCALE, FEET 0 20 40	SHEET 60	E

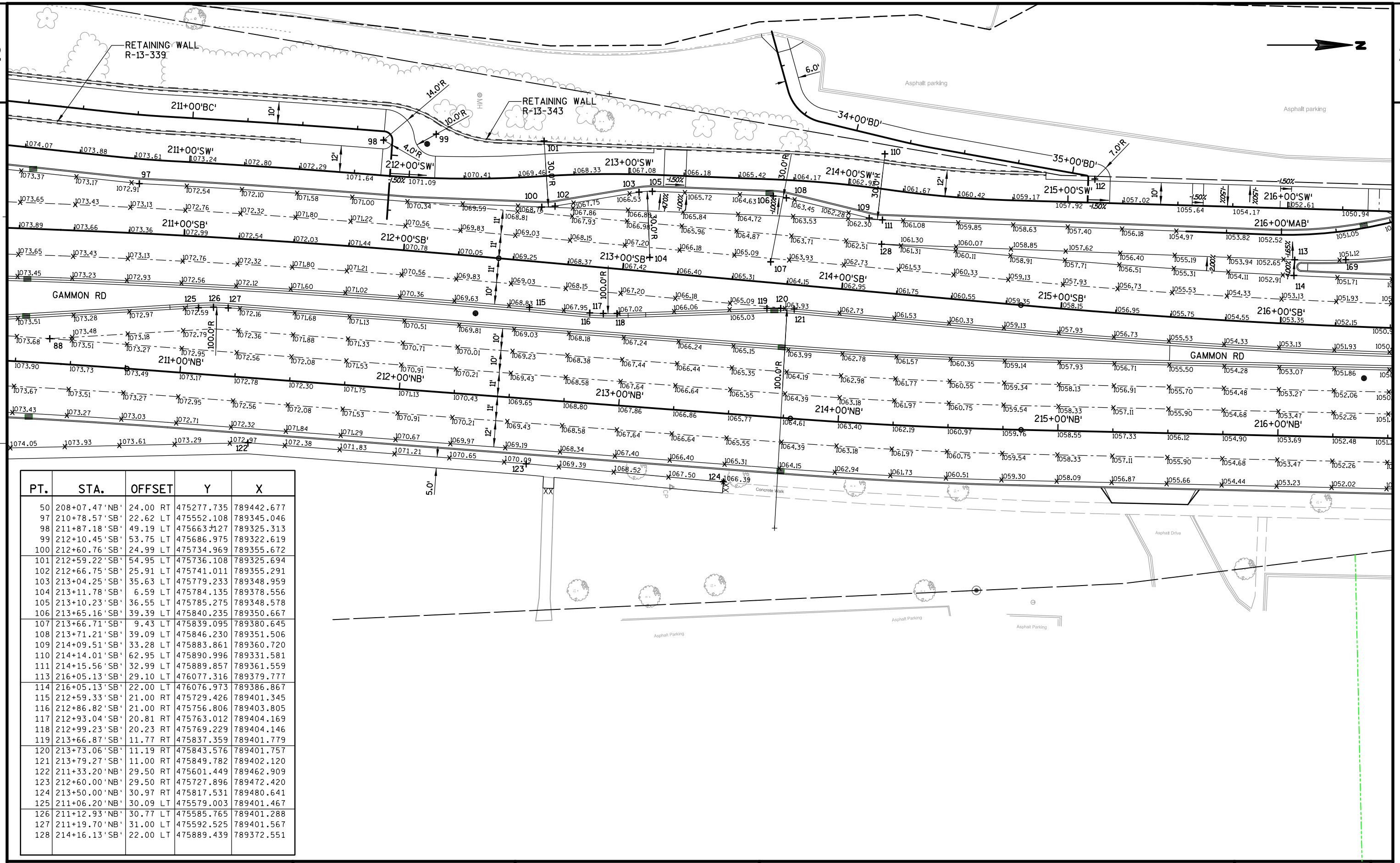
PT.	STA.	OFFSET	Y	X
50	208+07.47'NB'	24.00 RT	475277.735	789442.677
51	196+19.81'WBF'	9.09 RT	475260.818	789512.569
52	196+19.13'WBF'	0.00 RT	475269.582	789515.086
53	195+46.17'WBF'	0.00 RT	475302.333	789450.385
54	208+32.19'NB'	24.00 RT	475302.448	789443.303
55	196+28.63'WBF'	24.00 LT	475288.885	789532.172
56	195+77.97'WBF'	24.93 LT	475307.229	789488.080
57	196+04.26'WBF'	24.32 LT	475297.531	789509.907
58	195+71.85'WBF'	99.87 LT	475375.021	789520.164
59	209+06.69'NB'	24.00 RT	475376.918	789445.188
60	209+46.45'NB'	23.93 RT	475416.508	789446.190
61	196+12.43'WBF'	4.95 RT	475267.295	789507.066
62	207+22.92'SB'	37.50 LT	475196.459	789320.080
63	207+34.84'SB'	24.11 LT	475208.034	789333.768
64	399+23.57'WBO'	24.13 RT	475237.415	789297.176
65	398+83.23'WBO'	18.28 RT	475222.432	789250.170
66	399+14.02'WBO'	51.23 RT	475208.783	789304.278
67	208+17.11'NB'	20.04 LT	475288.480	789398.898
68	208+17.90'NB'	28.50 LT	475289.486	789390.458
69	208+17.90'NB'	37.00 LT	475289.702	789381.961
70	208+89.17'NB'	13.29 LT	475360.345	789407.467
71	209+16.18'NB'	11.98 LT	475387.321	789409.455
72	209+48.77'NB'	11.79 LT	475419.974	789410.563
73	209+58.67'NB'	12.23 LT	475429.930	789410.459
74	209+02.66'NB'	12.33 LT	475373.810	789408.765
75	209+50.06'SB'	52.69 LT	475423.909	789310.640
76	207+88.94'SB'	23.98 LT	475262.119	789335.270
77	399+08.91'WBO'	1.50 RT	475246.256	789271.066
78	207+96.92'SB'	29.54 LT	475270.233	789329.911
79	399+30.27'WBO'	3.50 RT	475257.868	789289.453
80	208+34.70'SB'	30.50 LT	475308.031	789329.908
81	208+39.40'SB'	24.00 LT	475312.564	789336.525
82	399+25.46'WBO'	4.99 RT	475253.547	789286.666
83	207+92.77'SB'	24.00 LT	475265.941	789335.345
85	208+97.50'SB'	36.35 LT	475370.956	789325.653
86	399+25.46'WBO'	18.00 LT	475271.270	789272.028
87	399+90.46'WBO'	18.00 LT	475315.860	789308.604
88	210+39.99'NB'	11.17 LT	475511.407	789415.562
89	195+38.43'WBF'	35.16 LT	475333.121	789468.624
90	207+18.09'NB'	22.07 LT	475189.547	789394.356
91	207+17.97'NB'	36.94 LT	475189.802	789379.492
92	207+14.73'NB'	29.62 LT	475186.378	789386.728
93	208+64.65'SB'	24.00 LT	475337.801	789337.164
94	207+79.44'NB'	24.01 RT	475249.715	789441.980
95	295+09.84'BP'	20.09 LT	475344.754	789275.219
96	294+74.57'BP'	20.83 LT	475342.369	789235.289



PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	PAVING GRADES - GAMMON RD SCALE, FEET 0 20 40	SHEET E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\021301_PG_Gammon.dgn PLOT BY : kk226 PLOT DATE : 9/26/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42



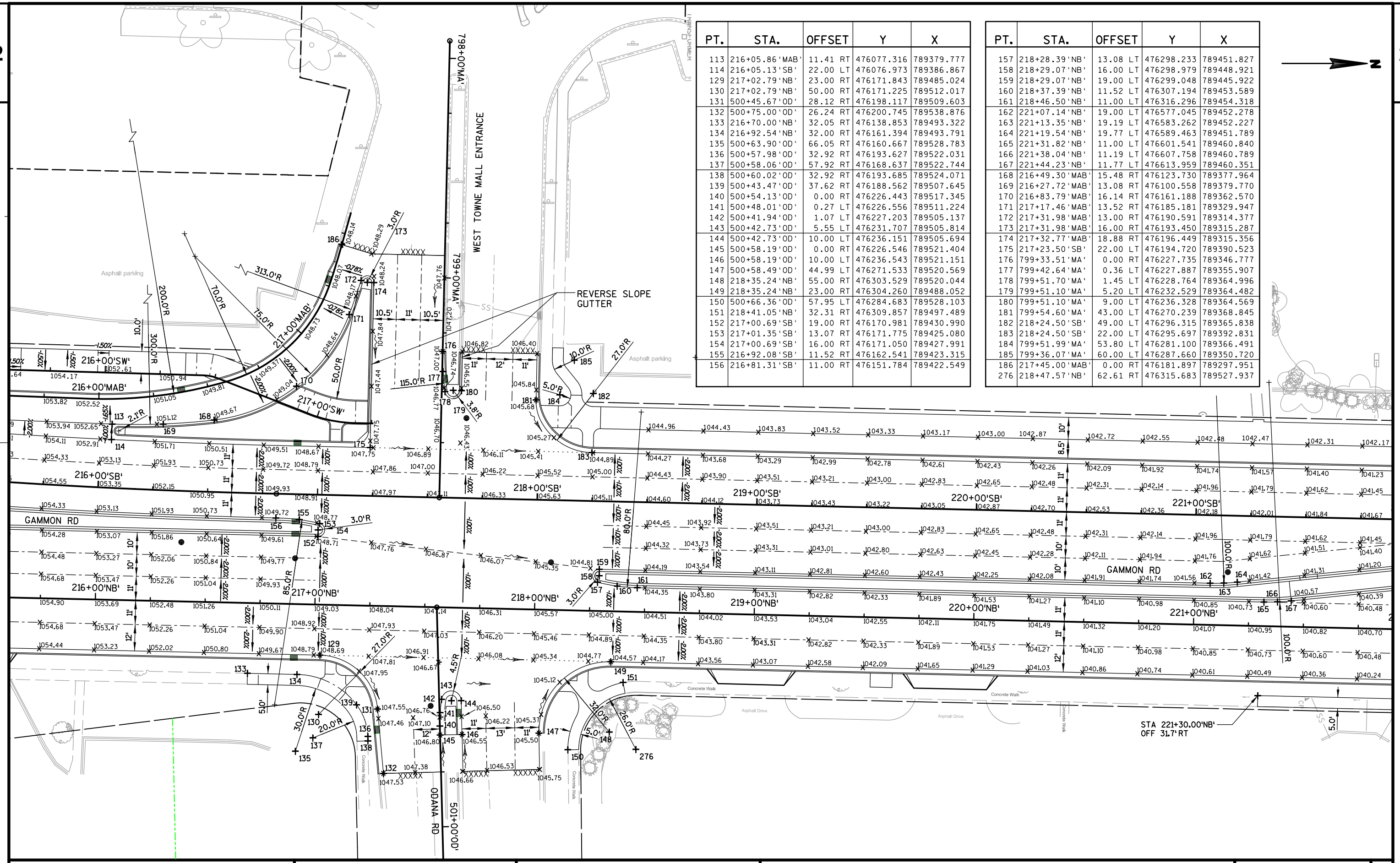
PT.	STA.	OFFSET	Y	X
50	208+07.47'NB'	24.00 RT	475277.735	789442.677
97	210+78.57'SB'	22.62 LT	475552.108	789345.046
98	211+87.18'SB'	49.19 LT	475663.127	789325.313
99	212+10.45'SB'	53.75 LT	475686.975	789322.619
100	212+60.76'SB'	24.99 LT	475734.969	789355.672
101	212+59.22'SB'	54.95 LT	475736.108	789325.694
102	212+66.75'SB'	25.91 LT	475741.011	789355.291
103	213+04.25'SB'	35.63 LT	475779.233	789348.959
104	213+11.78'SB'	6.59 LT	475784.135	789378.556
105	213+10.23'SB'	36.55 LT	475785.275	789348.578
106	213+65.16'SB'	39.39 LT	475840.235	789350.667
107	213+66.71'SB'	9.43 LT	475839.095	789380.645
108	213+71.21'SB'	39.09 LT	475846.230	789351.506
109	214+09.51'SB'	33.28 LT	475883.861	789360.720
110	214+14.01'SB'	62.95 LT	475890.996	789331.581
111	214+15.56'SB'	32.99 LT	475889.857	789361.559
113	216+05.13'SB'	29.10 LT	476077.316	789379.777
114	216+05.13'SB'	22.00 LT	476076.973	789386.867
115	212+59.33'SB'	21.00 RT	475729.426	789401.345
116	212+86.82'SB'	21.00 RT	475756.806	789403.805
117	212+93.04'SB'	20.81 RT	475763.012	789404.169
118	212+99.23'SB'	20.23 RT	475769.229	789404.146
119	213+66.87'SB'	11.77 RT	475837.359	789401.779
120	213+73.06'SB'	11.19 RT	475843.576	789401.757
121	213+79.27'SB'	11.00 RT	475849.782	789402.120
122	211+33.20'NB'	29.50 RT	475601.449	789462.909
123	212+60.00'NB'	29.50 RT	475727.896	789472.420
124	213+50.00'NB'	30.97 RT	475817.531	789480.641
125	211+06.20'NB'	30.09 LT	475579.003	789401.467
126	211+12.93'NB'	30.77 LT	475585.765	789401.288
127	211+19.70'NB'	31.00 LT	475592.525	789401.567
128	214+16.13'SB'	22.00 LT	475889.439	789372.551

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	PAVING GRADES - GAMMON RD	SCALE, FEET 0 20 40	SHEET 62	E

2

PT.	STA.	OFFSET	Y	X
113	216+05.86'MAB'	11.41 RT	476077.316	789379.777
114	216+05.13'SB'	22.00 LT	476076.973	789386.867
129	217+02.79'NB'	23.00 RT	476171.843	789485.024
130	217+02.79'NB'	50.00 RT	476171.225	789512.017
131	500+45.67'OD'	28.12 RT	476198.117	789509.603
132	500+75.00'OD'	26.24 RT	476200.745	789538.876
133	216+70.00'NB'	32.05 RT	476138.853	789493.322
134	216+92.54'NB'	32.00 RT	476161.394	789493.791
135	500+63.90'OD'	66.05 RT	476160.667	789528.783
136	500+57.98'OD'	32.92 RT	476193.627	789522.031
137	500+58.06'OD'	57.92 RT	476168.637	789522.744
138	500+60.02'OD'	32.92 RT	476193.685	789524.071
139	500+43.47'OD'	37.62 RT	476188.562	789507.645
140	500+54.13'OD'	0.00 RT	476226.443	789517.345
141	500+48.01'OD'	0.27 LT	476226.556	789511.224
142	500+41.94'OD'	1.07 LT	476227.203	789505.137
143	500+42.73'OD'	5.55 LT	476231.707	789505.814
144	500+42.73'OD'	10.00 LT	476236.151	789505.694
145	500+58.19'OD'	0.00 RT	476226.546	789521.404
146	500+58.19'OD'	10.00 LT	476236.543	789521.151
147	500+58.49'OD'	44.99 LT	476271.533	789520.569
148	218+35.24'NB'	55.00 RT	476303.529	789520.044
149	218+35.24'NB'	23.00 RT	476304.260	789488.052
150	500+66.36'OD'	57.95 LT	476284.683	789528.103
151	218+41.05'NB'	32.31 RT	476309.857	789497.489
152	217+00.69'SB'	19.00 RT	476170.981	789430.990
153	217+01.35'SB'	13.07 RT	476171.775	789425.080
154	217+00.69'SB'	16.00 RT	476171.050	789427.991
155	216+92.08'SB'	11.52 RT	476162.541	789423.315
156	216+81.31'SB'	11.00 RT	476151.784	789422.549

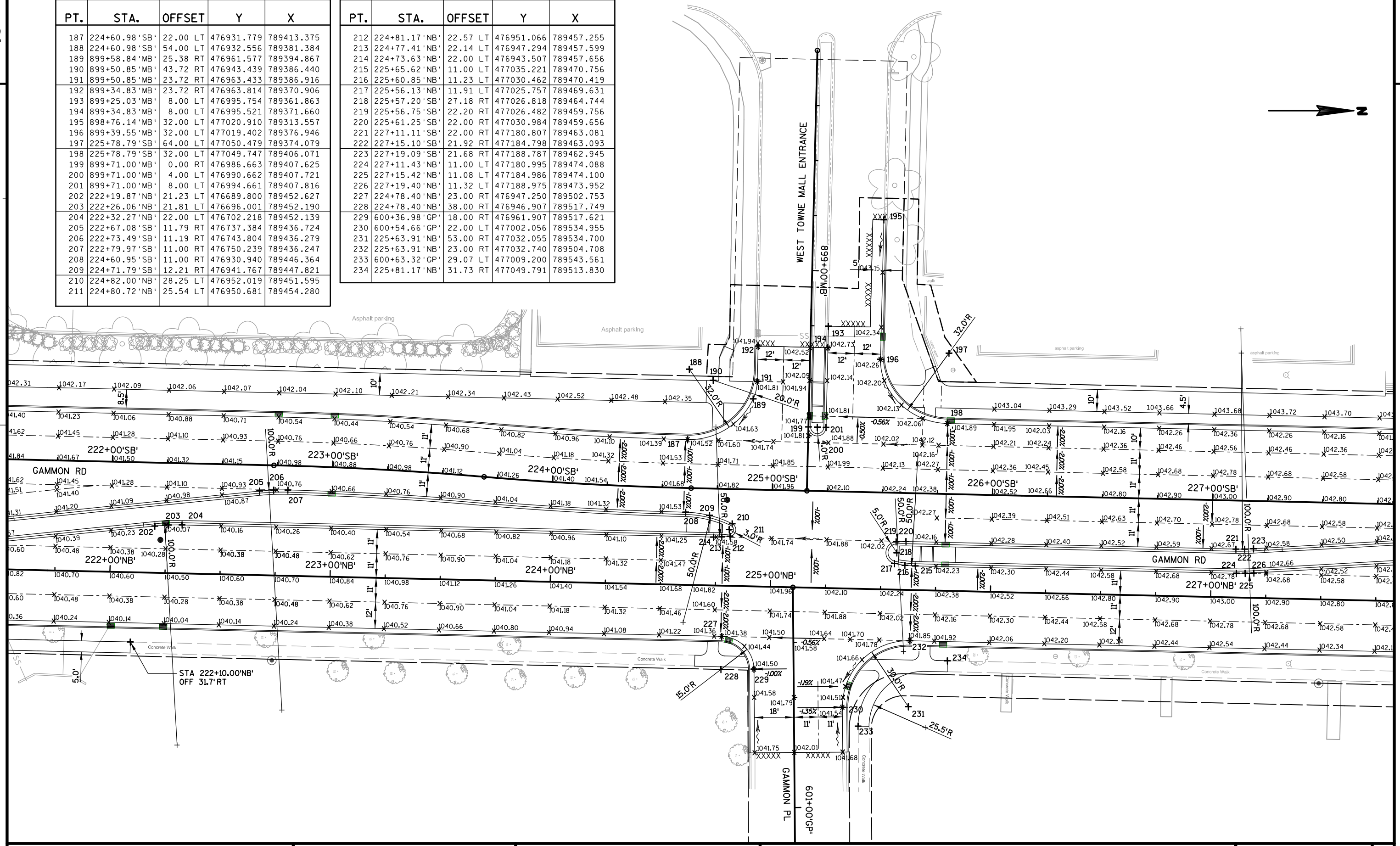
PT.	STA.	OFFSET	Y	X
157	218+28.39'NB'	13.08 LT	476298.233	789451.827
158	218+29.07'NB'	16.00 LT	476298.979	789448.921
159	218+29.07'NB'	19.00 LT	476299.048	789445.922
160	218+37.39'NB'	11.52 LT	476307.194	789453.589
161	218+46.50'NB'	11.00 LT	476316.296	789454.318
162	221+07.14'NB'	19.00 LT	476577.045	789452.278
163	221+13.35'NB'	19.19 LT	476583.262	789452.227
164	221+19.54'NB'	19.77 LT	476589.463	789451.789
165	221+31.82'NB'	11.00 LT	476601.541	789460.840
166	221+38.04'NB'	11.19 LT	476607.758	789460.789
167	221+44.23'NB'	11.77 LT	476613.959	789460.351
168	216+49.30'MAB'	15.48 RT	476123.730	789377.964
169	216+27.72'MAB'	13.08 RT	476100.558	789379.770
170	216+83.79'MAB'	16.14 RT	476161.188	789362.570
171	217+17.46'MAB'	13.52 RT	476185.181	789329.947
172	217+31.98'MAB'	13.00 RT	476190.591	789314.377
173	217+31.98'MAB'	16.00 RT	476193.450	789315.287
174	217+32.77'MAB'	18.88 RT	476196.449	789315.356
175	217+23.50'SB'	22.00 LT	476194.720	789390.523
176	799+33.51'MA'	0.00 RT	476227.735	789346.777
177	799+42.64'MA'	0.36 LT	476227.887	789355.907
178	799+51.70'MA'	1.45 LT	476228.764	789364.996
179	799+51.10'MA'	5.20 LT	476232.529	789364.482
180	799+51.10'MA'	9.00 LT	476236.328	789364.569
181	799+54.60'MA'	43.00 LT	476270.239	789368.845
182	218+24.50'SB'	49.00 LT	476296.315	789365.838
183	218+24.50'SB'	22.00 LT	476295.697	789392.831
184	799+51.99'MA'	53.80 LT	476281.100	789366.491
185	799+36.07'MA'	60.00 LT	476287.660	789350.720
186	217+45.00'MAB'	0.00 RT	476181.897	789297.951
276	218+47.57'NB'	62.61 RT	476315.683	789527.937



PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	PAVING GRADES - GAMMON RD SCALE, FEET 0 20 40	SHEET 63	E

PT.	STA.	OFFSET	Y	X
187	224+60.98'SB'	22.00 LT	476931.779	789413.375
188	224+60.98'SB'	54.00 LT	476932.556	789381.384
189	899+58.84'MB'	25.38 RT	476961.577	789394.867
190	899+50.85'MB'	43.72 RT	476943.439	789386.440
191	899+50.85'MB'	23.72 RT	476963.433	789386.916
192	899+34.83'MB'	23.72 RT	476963.814	789370.906
193	899+25.03'MB'	8.00 LT	476995.754	789361.863
194	899+34.83'MB'	8.00 LT	476995.521	789371.660
195	898+76.14'MB'	32.00 LT	477020.910	789313.557
196	899+39.55'MB'	32.00 LT	477019.402	789376.946
197	225+78.79'SB'	64.00 LT	477050.479	789374.079
198	225+78.79'SB'	32.00 LT	477049.747	789406.071
199	899+71.00'MB'	0.00 RT	476986.663	789407.625
200	899+71.00'MB'	4.00 LT	476990.662	789407.721
201	899+71.00'MB'	8.00 LT	476994.661	789407.816
202	222+19.87'NB'	21.23 LT	476689.800	789452.627
203	222+26.06'NB'	21.81 LT	476696.001	789452.190
204	222+32.27'NB'	22.00 LT	476702.218	789452.139
205	222+67.08'SB'	11.79 RT	476737.384	789436.724
206	222+73.49'SB'	11.19 RT	476743.804	789436.279
207	222+79.97'SB'	11.00 RT	476750.239	789436.247
208	224+60.95'SB'	11.00 RT	476930.940	789446.364
209	224+71.79'SB'	12.21 RT	476941.767	789447.821
210	224+82.00'NB'	28.25 LT	476952.019	789451.595
211	224+80.72'NB'	25.54 LT	476950.681	789454.280

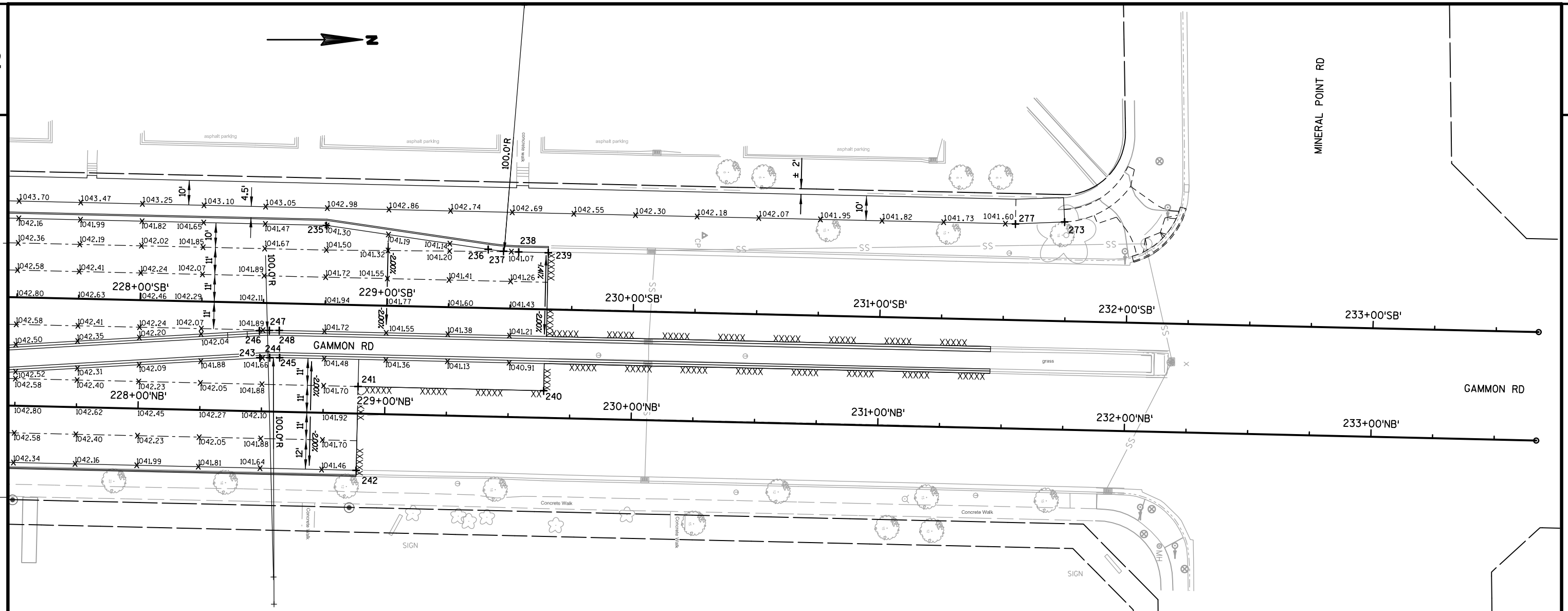
PT.	STA.	OFFSET	Y	X
212	224+81.17'NB'	22.57 LT	476951.066	789457.255
213	224+77.41'NB'	22.14 LT	476947.294	789457.599
214	224+73.63'NB'	22.00 LT	476943.507	789457.656
215	225+65.62'NB'	11.00 LT	477035.221	789470.756
216	225+60.85'NB'	11.23 LT	477030.462	789470.419
217	225+56.13'NB'	11.91 LT	477025.757	789469.631
218	225+57.20'SB'	27.18 RT	477026.818	789464.744
219	225+56.75'SB'	22.20 RT	477026.482	789459.756
220	225+61.25'SB'	22.00 RT	477030.984	789459.656
221	227+11.11'SB'	22.00 RT	477180.807	789463.081
222	227+15.10'SB'	21.92 RT	477184.798	789463.093
223	227+19.09'SB'	21.68 RT	477188.787	789462.945
224	227+11.43'NB'	11.00 LT	477180.995	789474.088
225	227+15.42'NB'	11.08 LT	477184.986	789474.100
226	227+19.40'NB'	11.32 LT	477188.975	789473.952
227	224+78.40'NB'	23.00 RT	476947.250	789502.753
228	224+78.40'NB'	38.00 RT	476946.907	789517.749
229	600+36.98'GP'	18.00 RT	476961.907	789517.621
230	600+54.66'GP'	22.00 LT	477002.056	789534.955
231	225+63.91'NB'	53.00 RT	477032.055	789534.700
232	225+63.91'NB'	23.00 RT	477032.740	789504.708
233	600+63.32'GP'	29.07 LT	477009.200	789543.561
234	225+81.17'NB'	31.73 RT	477049.791	789513.830



PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	PAVING GRADES - GAMMON RD	SCALE, FEET 0 20 40	SHEET 64	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\021304_PG_Gammon.dgn PLOT BY : kk226 PLOT DATE : 9/26/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42



PT.	STA.	OFFSET	Y	X
235	228+74.78'SB'	32.00 LT	477345.663	789412.836
236	229+40.60'SB'	23.77 LT	477411.280	789422.567
237	229+46.79'SB'	23.19 LT	477417.455	789423.287
238	229+53.00'SB'	23.00 LT	477423.662	789423.622
239	229+65.00'SB'	23.00 LT	477435.655	789423.896
240	229+64.24'NB'	11.00 LT	477433.741	789479.867
241	228+88.98'NB'	11.00 LT	477358.499	789478.147
242	228+88.98'NB'	23.00 RT	477357.721	789512.138
243	228+48.94'NB'	21.68 LT	477318.716	789466.553
244	228+52.92'NB'	21.92 LT	477322.705	789466.405
245	228+56.91'NB'	22.00 LT	477326.696	789466.417
246	228+48.63'SB'	11.32 RT	477318.529	789455.546
247	228+52.61'SB'	11.08 RT	477322.517	789455.398
248	228+56.60'SB'	11.00 RT	477326.508	789455.410
273	231+74.02'SB'	40.22 LT	477645.017	789411.454
277	231+54.06'SB'	39.00 LT	477625.032	789412.222

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	PAVING GRADES - GAMMON RD	SCALE, FEET 0 20 40	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\021305_PG_Gammon.dgn PLOT BY : kk226 PLOT DATE : 9/26/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

NOTE:
SEE OTHER SHEETS FOR GAMMON ROAD AND RAMP PAVING DETAILS

RETAINING WALL R-13-339

RETAINING WALL R-13-338

GAMMON RD

PEDESTRIAN UNDERPASS B-13-870

WB ON RAMP

WB OFF RAMP

GAMMON RD

PT.	STA.	OFFSET	Y	X
95	295+09.84'BP'	20.09 LT	475344.754	789275.219
96	294+74.57'BP'	20.83 LT	475342.369	789235.289
249	208+58.00'BC'	10.00 LT	475343.182	789250.266
250	294+75.99'BP'	5.91 LT	475328.014	789239.640
251	208+58.41'BC'	0.00 RT	475344.071	789260.234
252	295+09.37'BP'	5.10 LT	475329.793	789274.134

PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	PAVING GRADES - BIKE PATH 'BP' LINE SCALE, FEET 0 20 40	SHEET 66 E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\021306_PG_Bike Path.dgn PLOT BY : kk226 PLOT DATE : 9/26/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

PT.	STA.	OFFSET	Y	X
253	301+25.00'BP'	11.00 LT	475239.348	789882.740
254	301+59.60'BP'	5.21 LT	475223.215	789913.899
255	40+56.24'BF'	25.00 LT	475236.535	789920.796
256	40+56.24'BF'	10.00 LT	475250.569	789926.091
257	41+92.55'NB'	5.00 RT	475312.727	789803.854
258	41+92.55'NB'	10.00 LT	475298.692	789798.559
259	42+02.91'NB'	10.00 LT	475324.103	789794.078
260	40+20.63'BF'	0.00 RT	475231.202	789945.246
261	40+20.63'BF'	15.00 RT	475228.664	789960.029
262	302+06.69'BP'	5.00 LT	475213.720	789958.732
263	301+15.00'BP'	11.00 RT	475221.478	789866.472
264	301+64.92'BP'	5.00 RT	475211.872	789915.910

GRAND CANYON DR.

PEDESTRIAN UNDERPASS B-13-870

RETAINING WALL R-13-341

RETAINING WALL R-13-340

WB OFF RAMP

298+00'BP'
299+00'BP'
300+00'BP'
301+00'BP'
302+00'BP'
303+00'BP'
304+00'BP'
197+00'WBF'
198+00'WBF'
199+00'WBF'
200+00'WBF'
42+00'BF'
41+00'BF'

15.0'R

10'

8'

12'

5'

SIGN

conc apron

chain line

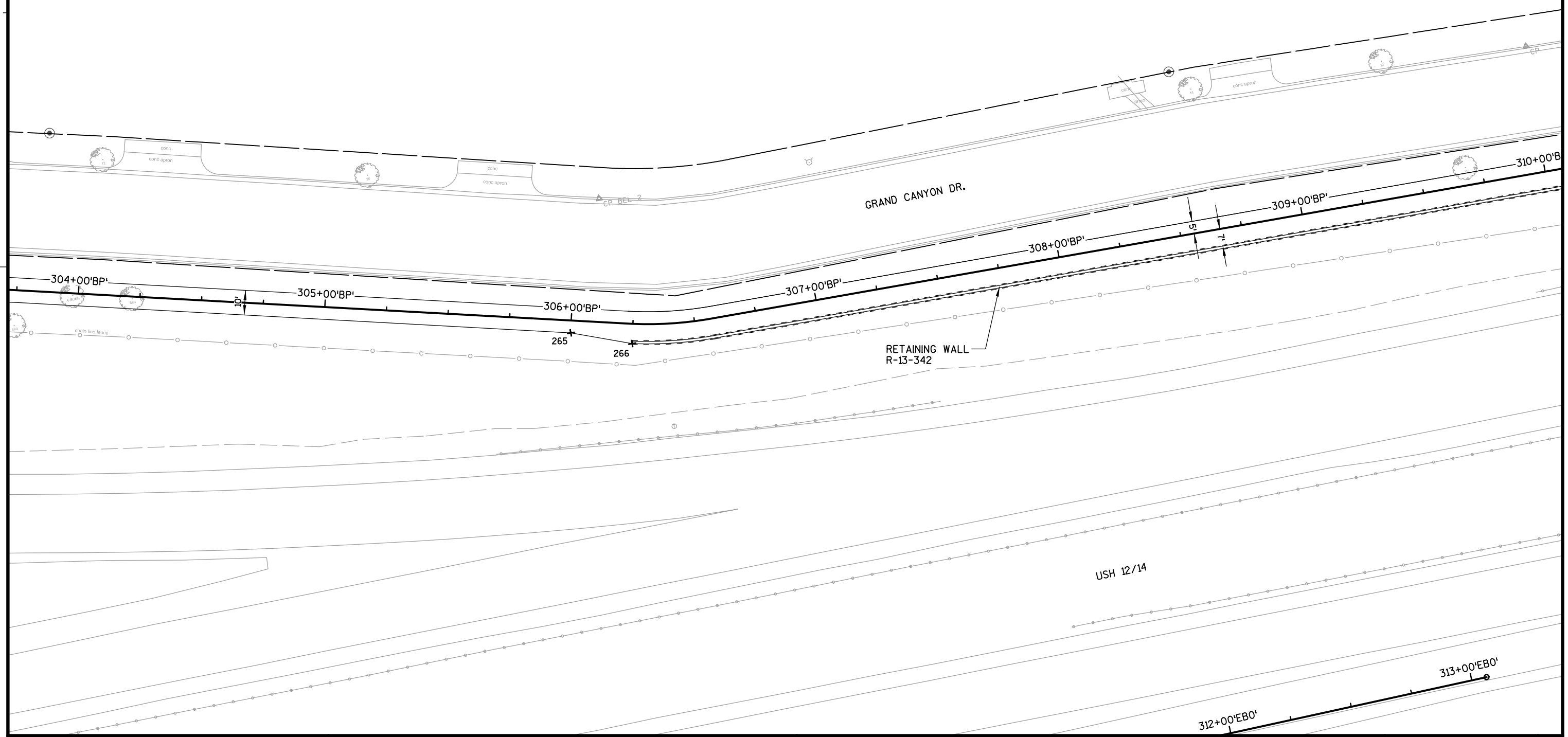
chain line fence

PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	PAVING GRADES - BIKE PATH 'BP' LINE SCALE, FEET 0 20 40	SHEET 67	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\021307_PG_Bike Path.dgn PLOT BY : kk226 PLOT DATE : 9/26/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

PT.	STA.	OFFSET	Y	X
265	306+00.07'BP'	5.00 RT	475158.550	790342.615
266	306+25.00'BP'	8.00 RT	475149.777	790366.261

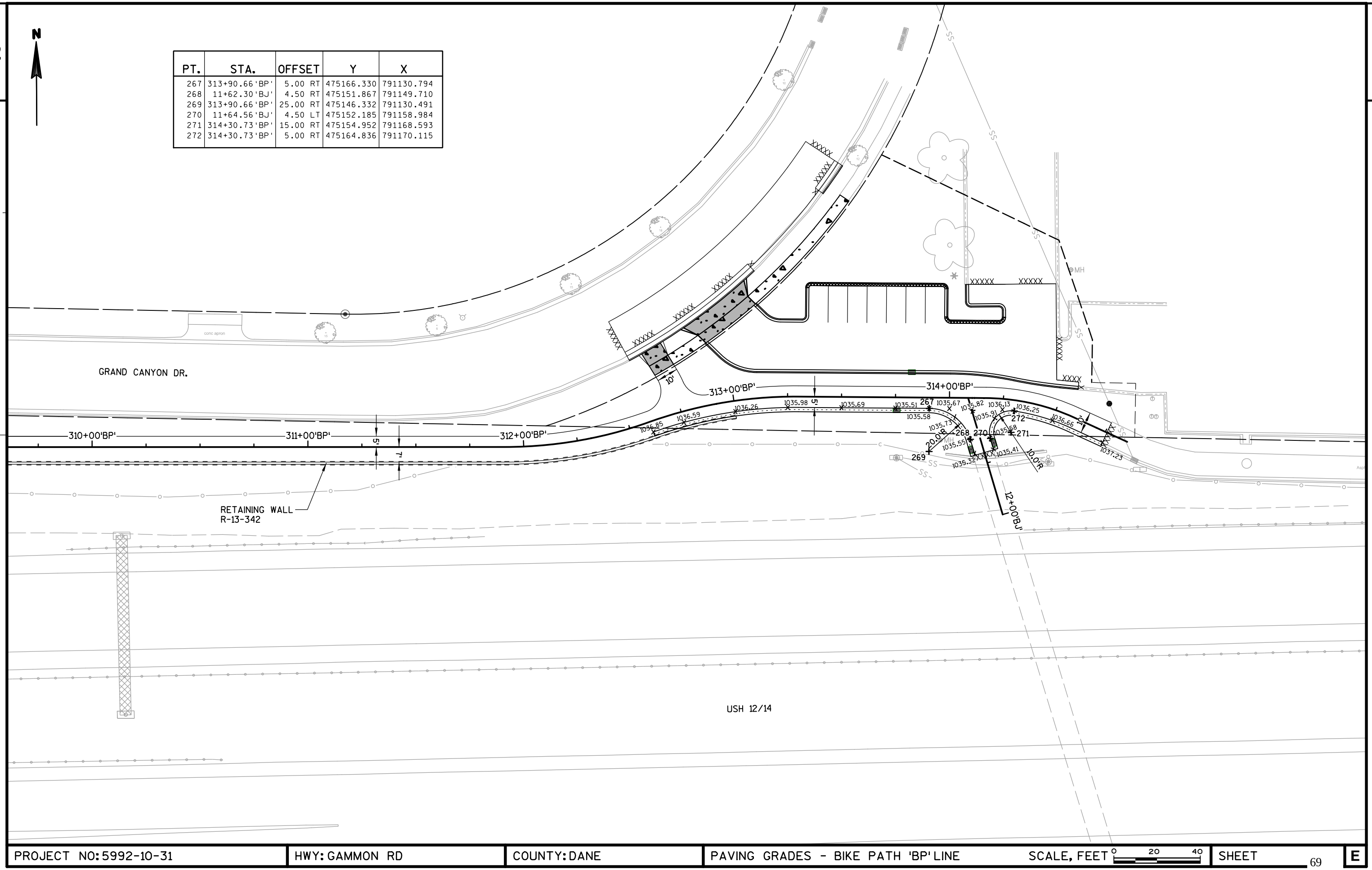


PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	PAVING GRADES - BIKE PATH 'BP' LINE	SCALE, FEET 0 20 40	SHEET 68	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\021308_PG_Bike Path.dgn PLOT BY : kk226 PLOT DATE : 9/26/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

PT.	STA.	OFFSET	Y	X
267	313+90.66'BP'	5.00 RT	475166.330	791130.794
268	11+62.30'BJ'	4.50 RT	475151.867	791149.710
269	313+90.66'BP'	25.00 RT	475146.332	791130.491
270	11+64.56'BJ'	4.50 LT	475152.185	791158.984
271	314+30.73'BP'	15.00 RT	475154.952	791168.593
272	314+30.73'BP'	5.00 RT	475164.836	791170.115



PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	PAVING GRADES - BIKE PATH 'BP' LINE SCALE, FEET 0 20 40	SHEET 69	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\021309_PG_Bike Path.dgn PLOT BY : kk226 PLOT DATE : 9/26/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

2

RETAINING WALL
R-13-339

209+00'BC'

209+00'SB'

GAMMON RD

209+00'NB'

195+00'WBF'

ITS METER
COORDINATE RELOCATION OF
ITS METER WITH POWER UTILITY
AND WisDOT KYLE HEMP
(608-246-5367)

PEDESTRIAN
UNDERPASS
B-13-870

TRANSFORMER

TRANSFORMER

(1)-3"
CONDUIT

MHI1

295+00'BP'

296+00'BP'

400+00'WBO'

298+00'BP'

SIGN

1-1/4" REBAR

42+00'BF'

299+00'BP'

300+00'BP'

RETAINING WALL
R-13-338

196+00'WBF'

208+00'SB'

399+00'WBO'

197+00'WBF'

(1)-3" CONDUIT

MAINTAIN CONDUIT
DURING CONSTRUCTION

WB ON RAMP

198+00'WBF'

WB OFF RAMP

199+00'WBF'

MHI3

(2)-3" CONDUITS

POST

POST

POST

MH

SS

MAINTAIN EXISTING
CABINET, CONDUITS
AND MANHOLE DURING
CONSTRUCTION

MAINTAIN MANHOLE
DURING CONSTRUCTION

GAMMON RD

SIGN

206+00'SB'

206+00'NB'

USH 12/14

USH 12/14

NOTES:

COORDINATE TRANSFER OF SERVICE FROM OLD METER TO NEW METER WITH POWER ULITILY.

WOOD POLE AND OVERHEAD WIRES REQUIRED TO MAINTAIN POWER TO CABINET IN THE SOUTHWEST CORNER DURING CONSTRUCTION. GENERATOR MAY BE NEEDED DURING THIS TIME.

MAXIMUM TIME ALLOWED TO DISCONNECT POWER SERVICE TO EXISTING CABINET IN THE SOUTHWEST CORNER IS 24 HOURS. COORDINATE POWER OUTAGE WITH WisDOT (DEAN BEEKMAN, 414-750-1811).

NEW METER LOCATION SHALL BE ADJUSTED CLOSER TO EXISTING UNDERGROUND POWER LINE ONCE LOCATED BY POWER UTILITY.

LEGEND	
— —	(1) - 3" CONDUIT UNLESS OTHERWISE NOTED
	24X42 INCH PULLBOX
	METER LOCATION
	EXISTING CABINET
	EXISTING ITS CABINET
	EXISTING METER

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	ITS PLANS	SCALE, FEET 0 20 40	SHEET 70	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\021401_FM_Gammon.dgn

PLOT BY : kk226 PLOT DATE : 10/15/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- SOD
- SILT FENCE
- TEMPORARY DITCH CHECKS
- INLET PROTECTION
- SLOPE INTERCEPT
- SURFACE WATER FLOW
- FENCE CHAIN LINK 6-FT

WB ON RAMP
399+00'WBO'
295+00'BP'
TLE
R/W
asphalt Drive
209+00'BC'
210+00'BC'
209+00'SW'
210+00'SW'
400+00'WBO'
A&D
A&C
205+00'SB'
206+00'SB'
207+00'SB'
208+00'SB'
209+00'SB'
210+00'SB'
GAMMON RD
205+00'NB'
206+00'NB'
207+00'NB'
208+00'NB'
210+00'NB'
195+00'WBF'
297+00'BP'
196+00'WBF'
298+00'BP'
WB OFF RAMP
concrete walk
Concrete Walk
SIGN
conc

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	EROSION CONTROL AND FENCING	SCALE, FEET 0 20 40	SHEET 71	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\022003_EC_Gammon.dgn
PLOT BY : dm253 PLOT DATE : 7/31/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

N

asphalt Drive

R/W

TLE

Asphalt parking

Asphalt parking

211+00'BC'

211+00'SW'

212+00'SW'

213+00'SW'

214+00'SW'

34+00'BD'

35+00'BD'

215+00'SW'

216+00'SW'

216+00'MAB'

A&C

211+00'SB'

212+00'SB'

213+00'SB'

214+00'SB'

215+00'SB'

216+00'SB'

GAMMON RD

A&C

A&C

GAMMON RD

211+00'NB'

212+00'NB'

213+00'NB'

214+00'NB'

215+00'NB'

216+00'NB'

A&C

Concrete Walk

Asphalt Drive

Asphalt Parking

Asphalt Parking

R/W

EROSION CONTROL LEGEND

###### EROSION MAT URBAN CLASS I, TYPE A	INLET PROTECTION
SOD	SLOPE INTERCEPT
SILT FENCE	SURFACE WATER FLOW
TEMPORARY DITCH CHECKS	FENCE CHAIN LINK 6-FT

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	EROSION CONTROL AND FENCING SCALE, FEET 0 20 40	SHEET 72 E

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- SOD
- SILT FENCE
- TEMPORARY DITCH CHECKS
- INLET PROTECTION
- SLOPE INTERCEPT
- SURFACE WATER FLOW
- FENCE CHAIN LINK 6-FT

N

TLE

WEST TOWNE MALL ENTRANCE

Asphalt parking

A&D

A&C

D

SS

216+00'SW'

216+00'MAB'

217+00'MAB'

217+00'SW'

R/W

216+00'SB'

217+00'SB'

218+00'SB'

219+00'SB'

220+00'SB'

221+00'SB'

GAMMON RD

216+00'NB'

217+00'NB'

218+00'NB'

219+00'NB'

220+00'NB'

221+00'NB'

Concrete Walk

Asphalt Drive

501+00'OD'

ODANA RD

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	EROSION CONTROL AND FENCING SCALE, FEET 0 20 40	SHEET E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\022005_EC_Gammon.dgn PLOT BY : dm253 PLOT DATE : 7/31/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- SOD
- SILT FENCE
- TEMPORARY DITCH CHECKS
- INLET PROTECTION
- SLOPE INTERCEPT
- SURFACE WATER FLOW
- FENCE CHAIN LINK 6-FT

N

WEST TOWNE MALL ENTRANCE

899+00'NB'

Asphalt parking

R/W

C

A&C

TLE

A&D

222+00'SB' 223+00'SB' 224+00'SB' 225+00'SB' 226+00'SB' 227+00'SB'

GAMMON RD

222+00'NB' 223+00'NB' 224+00'NB' 225+00'NB' 226+00'NB' 227+00'NB'

Concrete Walk

UTILITY EASEMENT

610+00'GP'

GAMMON PL

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	EROSION CONTROL AND FENCING	SCALE, FEET 0 20 40	SHEET 74	E

2

2

N

MINERAL POINT RD

R/W

asphalt parking

asphalt parking

asphalt parking

asphalt parking

CONCRETE WALK

C

D

228+00'SB'

229+00'SB'

230+00'SB'

231+00'SB'

232+00'SB'

233+00'SB'

GAMMON RD

grass

GAMMON RD

228+00'NB'

229+00'NB'

230+00'NB'

231+00'NB'

232+00'NB'

233+00'NB'

Concrete Walk

Concrete Walk

Concrete Walk

Concrete Walk

SIGN

SIGN

UTILITY EASEMENT

MINERAL POINT RD

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- SOD
- SILT FENCE
- TEMPORARY DITCH CHECKS
- INLET PROTECTION
- SLOPE INTERCEPT
- SURFACE WATER FLOW
- FENCE CHAIN LINK 6-FT

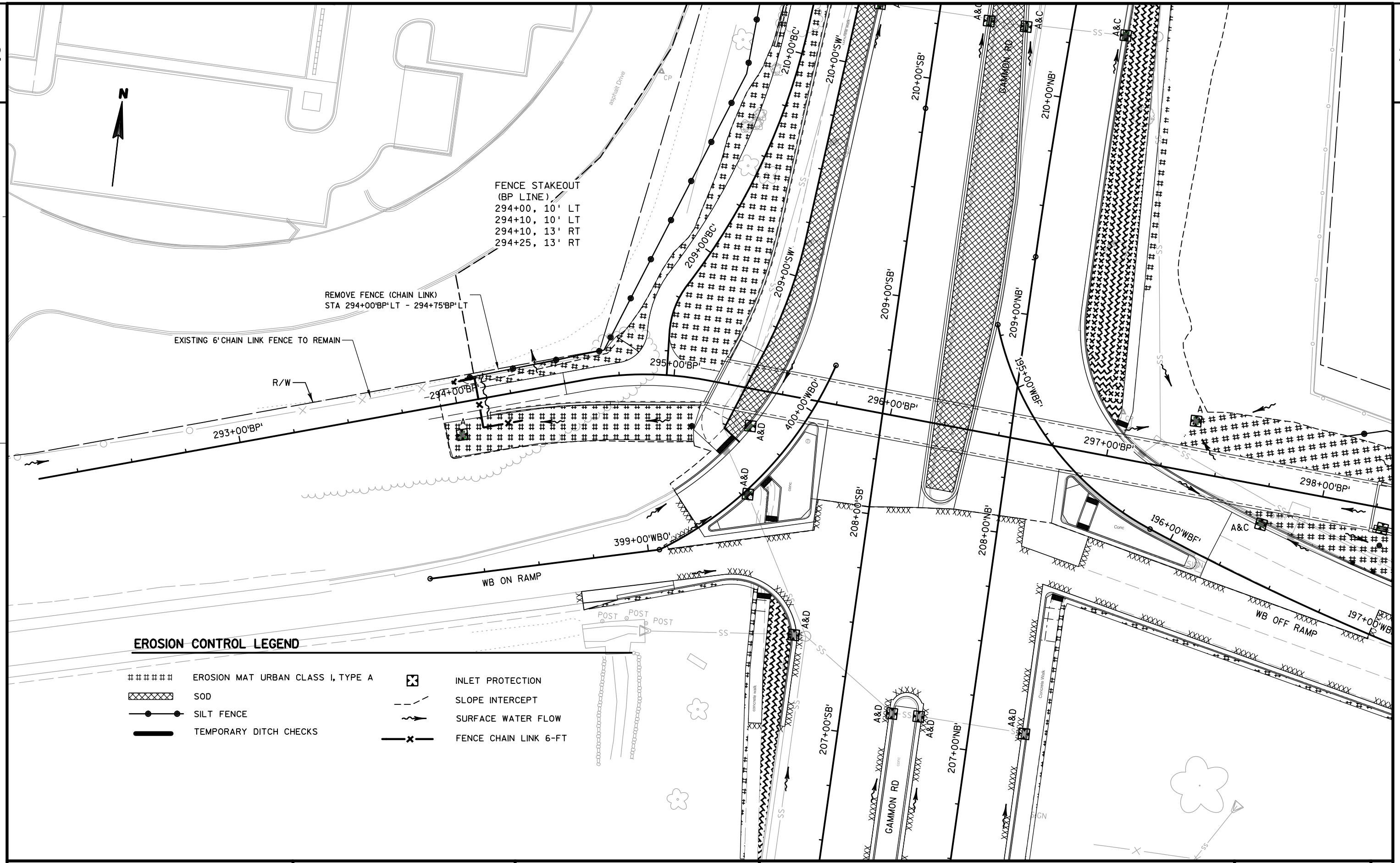
PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	EROSION CONTROL AND FENCING	SCALE, FEET 0 20 40	SHEET 75	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\022007_EC_Gammon.dgn

PLOT BY : dm253 PLOT DATE : 7/31/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2



EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- SOD
- SILT FENCE
- TEMPORARY DITCH CHECKS
- INLET PROTECTION
- SLOPE INTERCEPT
- SURFACE WATER FLOW
- FENCE CHAIN LINK 6-FT

PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	EROSION CONTROL AND FENCING	SCALE, FEET 0 20 40	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\022011_EC_Bike Path.dgn PLOT BY : dm253 PLOT DATE : 7/31/2019 PLOT SCALE : 1:40

2

2

N

EXISTING 6' CHAIN LINK FENCE TO REMAIN

REMOVE FENCE (6' CHAIN LINK)
STA 300+00'BP' LT - 303+00'BP' LT

SIGN

GRAND CANYON DR.

conc apron

conc apron

298+00'BP'

299+00'BP'

300+00'BP'

301+00'BP'

302+00'BP'

303+00'BP'

304+00'BP'

42+00'BP'

41+00'BP'

A&C

A&D

WB OFF RAMP

XXXXX

MH

SS

chain link fence

10' (TYP)

REMOVE FENCE (6' CHAIN LINK)
STA 303+00'BP' RT - 313+90'BP' RT

FENCE STAKEOUT
(BP LINE)
301+00, 13' RT
301+50, 13' RT
301+80, 10' RT
304+00, 10' RT

EROSION CONTROL LEGEND

####### EROSION MAT URBAN CLASS I, TYPE A	INLET PROTECTION
SOD	SLOPE INTERCEPT
SILT FENCE	SURFACE WATER FLOW
TEMPORARY DITCH CHECKS	FENCE CHAIN LINK 6-FT

PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	EROSION CONTROL AND FENCING	SCALE, FEET 0 20 40

SHEET 77 E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\022012_EC_Bike Path.dgn

PLOT BY : dm253 PLOT DATE : 7/31/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

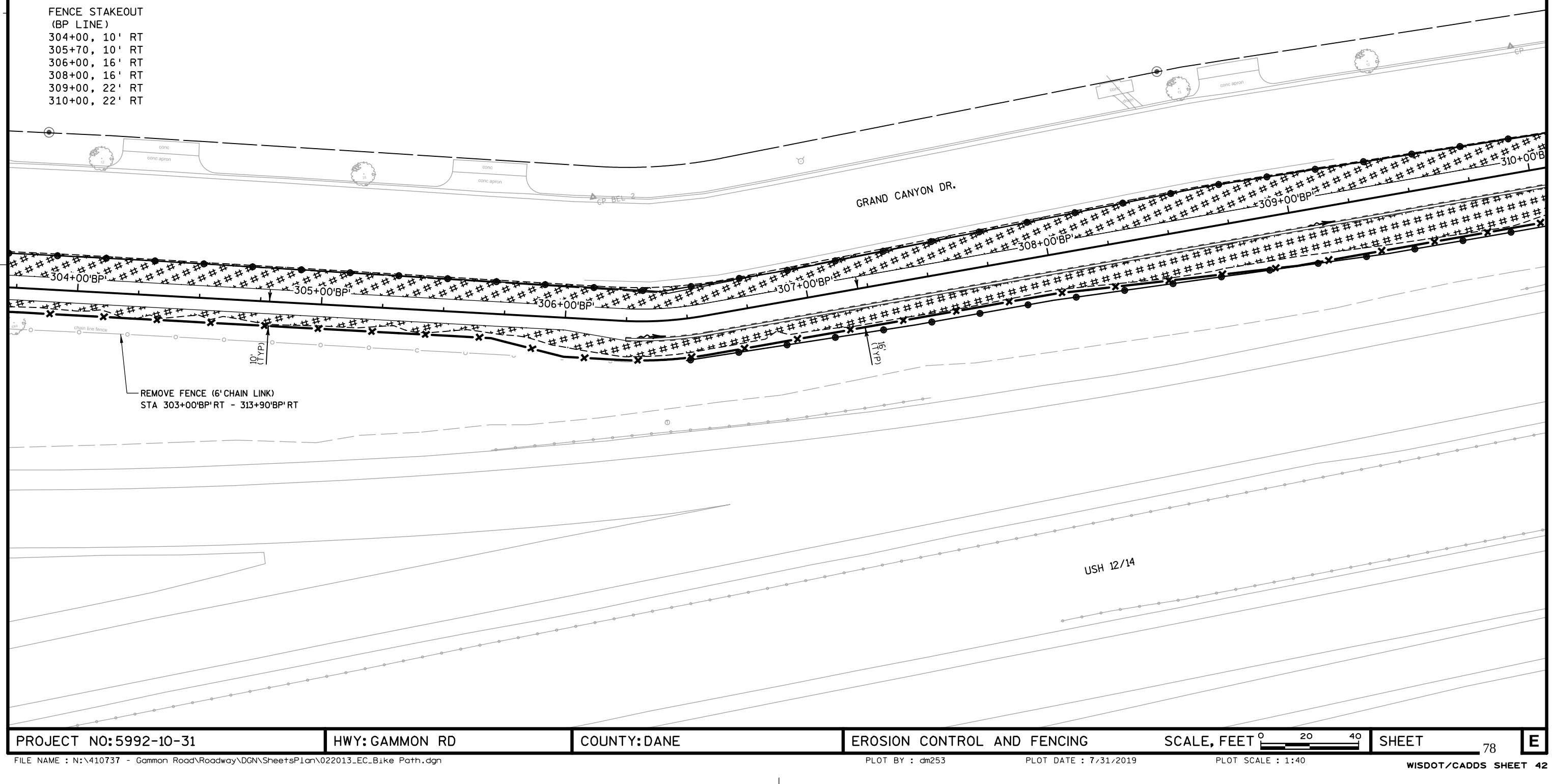
2

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- SOD
- SILT FENCE
- TEMPORARY DITCH CHECKS
- INLET PROTECTION
- SLOPE INTERCEPT
- SURFACE WATER FLOW
- FENCE CHAIN LINK 6-FT

N

FENCE STAKEOUT
(BP LINE)
304+00, 10' RT
305+70, 10' RT
306+00, 16' RT
308+00, 16' RT
309+00, 22' RT
310+00, 22' RT



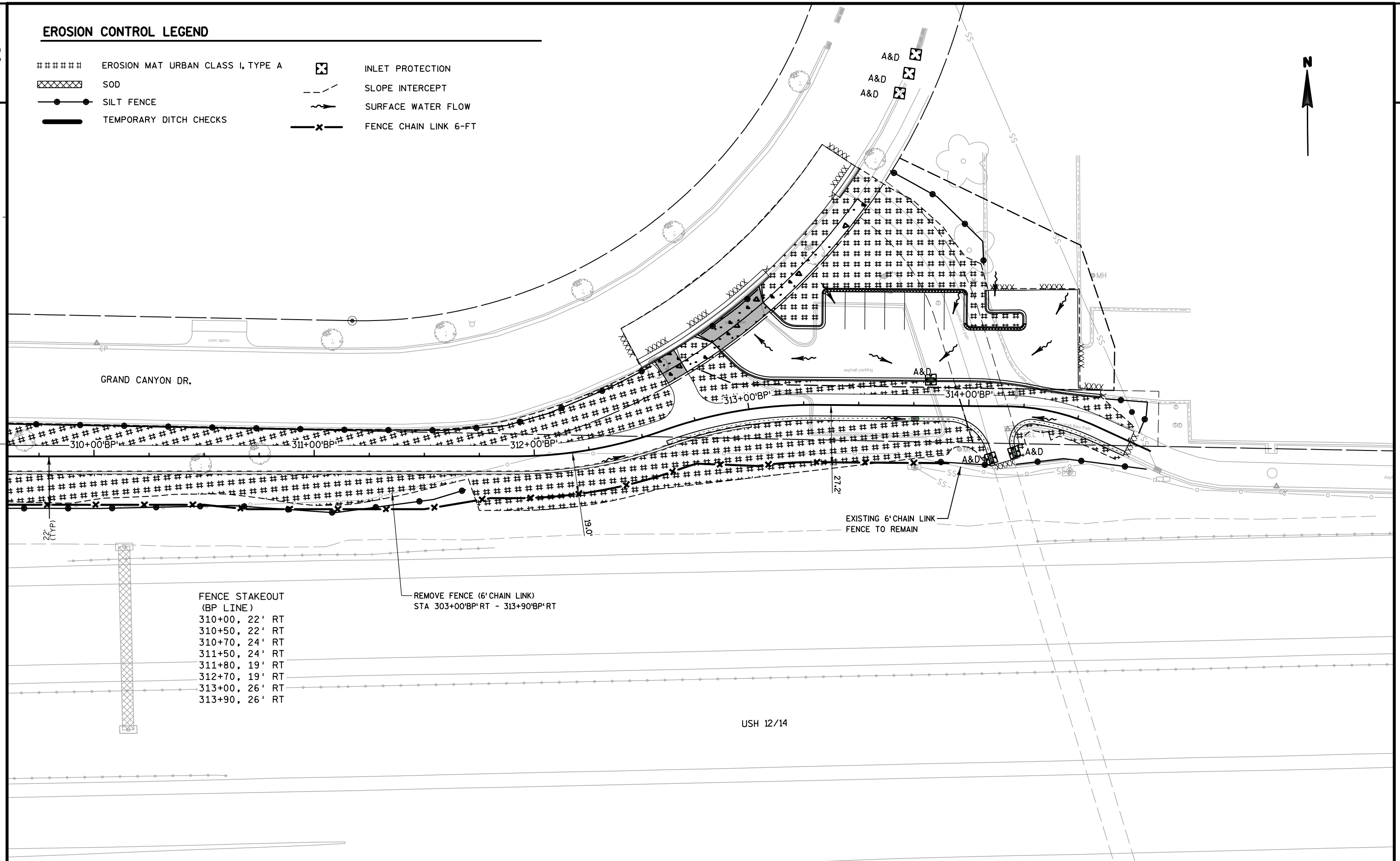
PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	EROSION CONTROL AND FENCING	SCALE, FEET 0 20 40	SHEET 78	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\022013_EC_Bike Path.dgn
PLOT BY : dm253 PLOT DATE : 7/31/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- SOD
- SILT FENCE
- TEMPORARY DITCH CHECKS
- INLET PROTECTION
- SLOPE INTERCEPT
- SURFACE WATER FLOW
- FENCE CHAIN LINK 6-FT

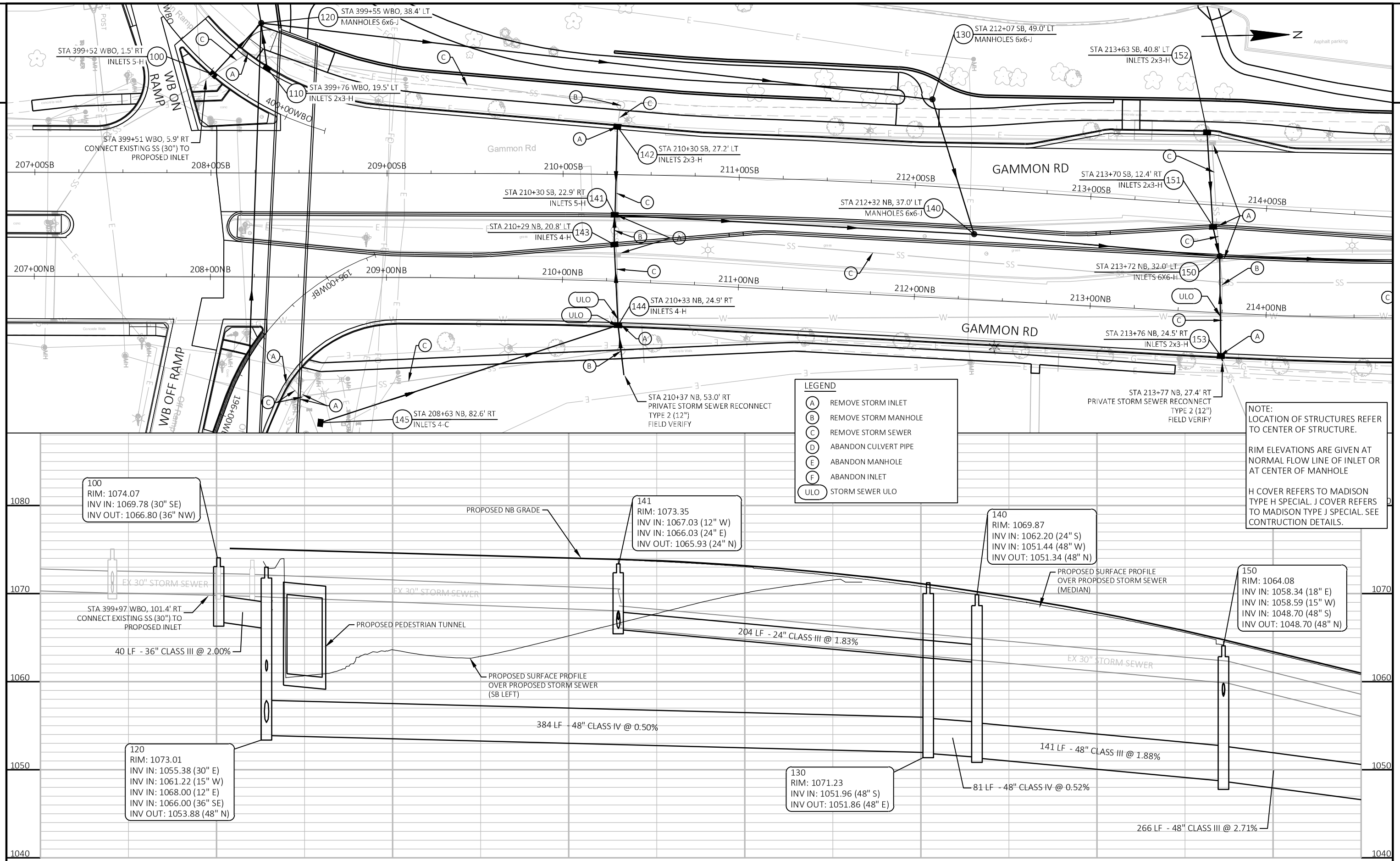


PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	EROSION CONTROL AND FENCING	SCALE, FEET 0 20 40	SHEET 79	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\022014_EC_Bike Path.dgn PLOT BY : dm253 PLOT DATE : 7/31/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2



PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STORM SEWER	SHEET 80	E

2

STA 217+28 MAB, 1.5' LT
INLETS 4-H
176

STA 216+88 MAB, 16.7' RT
INLETS 3-Z
175

STA 216+38 MAB, 1.5' LT
INLETS 2x3-H
174

216+00MAB

217+00MAB

799+00MA

WEST TOWNE MALL ENTRANCE

800+00MA

182 STA 799+46 MA, 1.4' LT
INLETS 3-Z

STA 217+69 SB, 40.0' LT
CONNECT TO EX STORM SEWER
CONCRETE COLLAR REQ'D

181 STA 217+67 SB, 36.6' LT
MANHOLES 4-J

Gammon Rd

STA 216+90 SB, 23.5' LT
INLETS 4-H
173

215+00SB

216+00SB

217+00SB

218+00SB

219+00SB

220+00SB

221+00SB

222+00SB

ULO

172 STA 216+90 SB, 12.4' RT
INLETS 2x3-H

171 STA 216+90 NB, 32.0' LT
INLETS 2x3-H

180 STA 218+07 SB, 28.3' RT
MANHOLES 6x6-J

EXISTING STORM SEWER TO REMAIN

STA 221+15 SB, 25.7' RT
MANHOLES 6x6-J
190

STA 216+39 NB, 27.0' LT
MANHOLES 6x6-J
160

STA 216+90 NB, 20.8' LT
MANHOLES 6x6-J
170

215+00NB

216+00NB

217+00NB

218+00NB

219+00NB

220+00NB

221+00NB

222+00NB

GAMMON RD

STA 216+91 NB, 24.5' RT
INLETS 2x3-H
177

STA 500+55 OD, 28.5' RT
INLETS 2x3-H
185

STA 500+48 OD, 9.0' LT
INLETS 2x3-H
186

STA 500+45 OD, 3.9' RT
MANHOLES 7-J
183

STA 500+56 OD, 39.5' RT
PRIVATE STORM SEWER RECONNECT
TYPE 2 (10")
FIELD VERIFY

ODANA RD

501+00

STA 500+66 OD, 3.8' RT
CONNECT TO EX SS
CONCRETE COLLAR REQ'D

STA 221+55 NB, 59.7' RT
APRON ENDWALLS FOR CPRC 54-INCH
PIPE GRATE REQ'D
200

RIPRAP HEAVY

LEGEND

- (A) REMOVE STORM INLET
- (B) REMOVE STORM MANHOLE
- (C) REMOVE STORM SEWER
- (D) ABANDON CULVERT PIPE
- (E) ABANDON MANHOLE
- (F) ABANDON INLET
- (ULO) STORM SEWER ULO

NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE.

RIM ELEVATIONS ARE GIVEN AT NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE

H COVER REFERS TO MADISON TYPE H SPECIAL. J COVER REFERS TO MADISON TYPE J SPECIAL. SEE CONTRUCTION DETAILS.

1060
1050
1040
1030
1020

EX 30" STORM SEWER

EXISTING 16" WM CROSSING ELEVATION TO BE VERIFIED. 6" MIN VERTICAL SEPARATION

PROPOSED NB GRADE

PROPOSED SURFACE PROFILE OVER PROPOSED STORM SEWER

266 LF - 48" CLASS III @ 2.71%

53 LF - 48" CLASS III @ 2.00%

117 LF - 48" CLASS III @ 2.82%

309 LF - 54" CLASS III @ 0.66%

EX 36" STORM SEWER

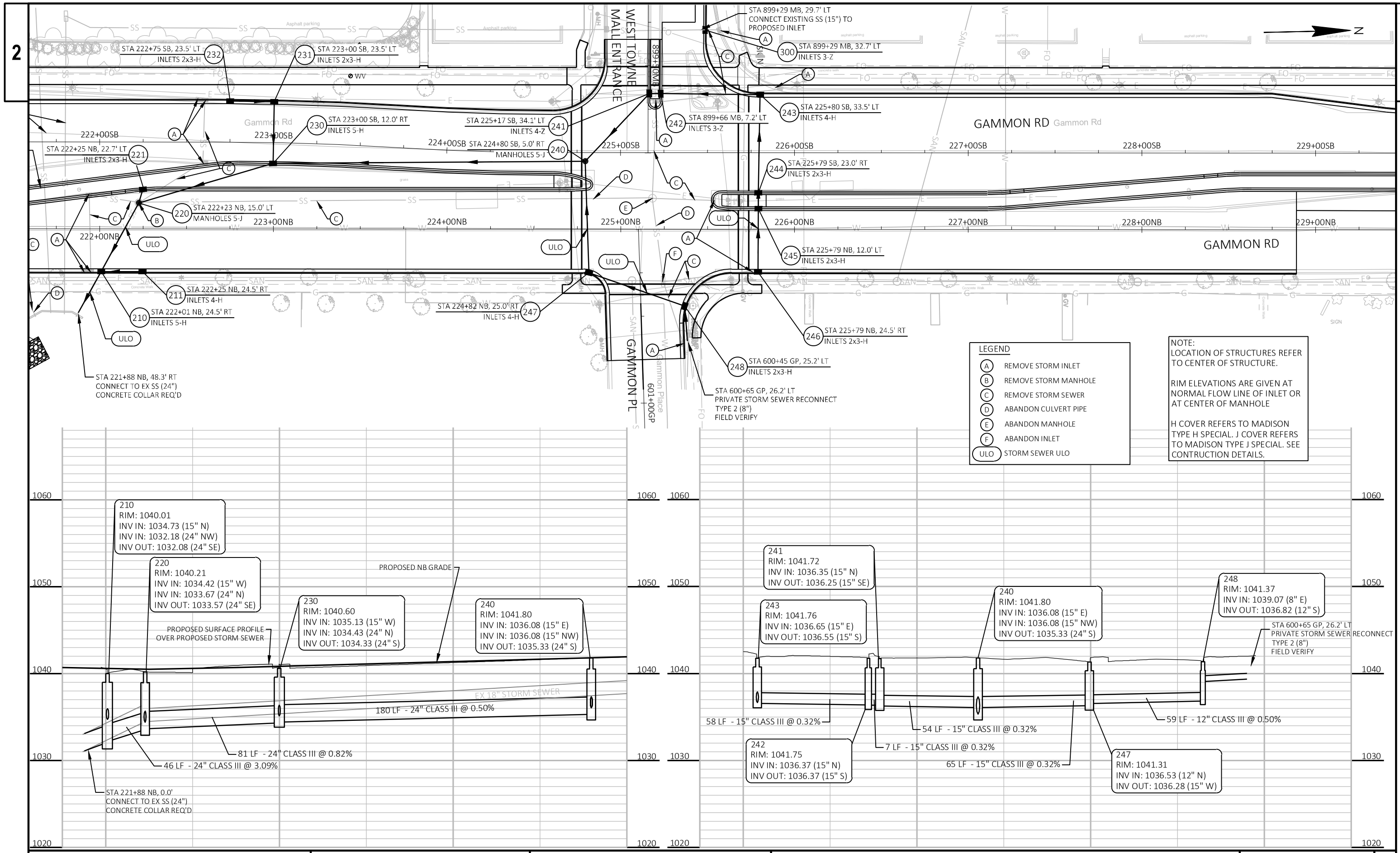
160
RIM: 1051.28
INV IN: 1041.51 (48" S)
INV IN: 1044.86 (12" W)
INV OUT: 1039.08 (48" N)

170
RIM: 1049.17
INV IN: 1038.03 (48" S)
INV IN: 1042.30 (18" W)
INV IN: 1042.55 (15" E)
INV OUT: 1038.03 (48" N)

180
RIM: 1045.17
INV IN: 1034.75 (48" S)
INV IN: 1038.78 (18" SE)
INV IN: 1039.03 (15" SW)
INV OUT: 1034.25 (54" N)

190
RIM: 1041.57
INV IN: 1032.22 (54" S)
INV OUT: 1032.12 (54" NE)

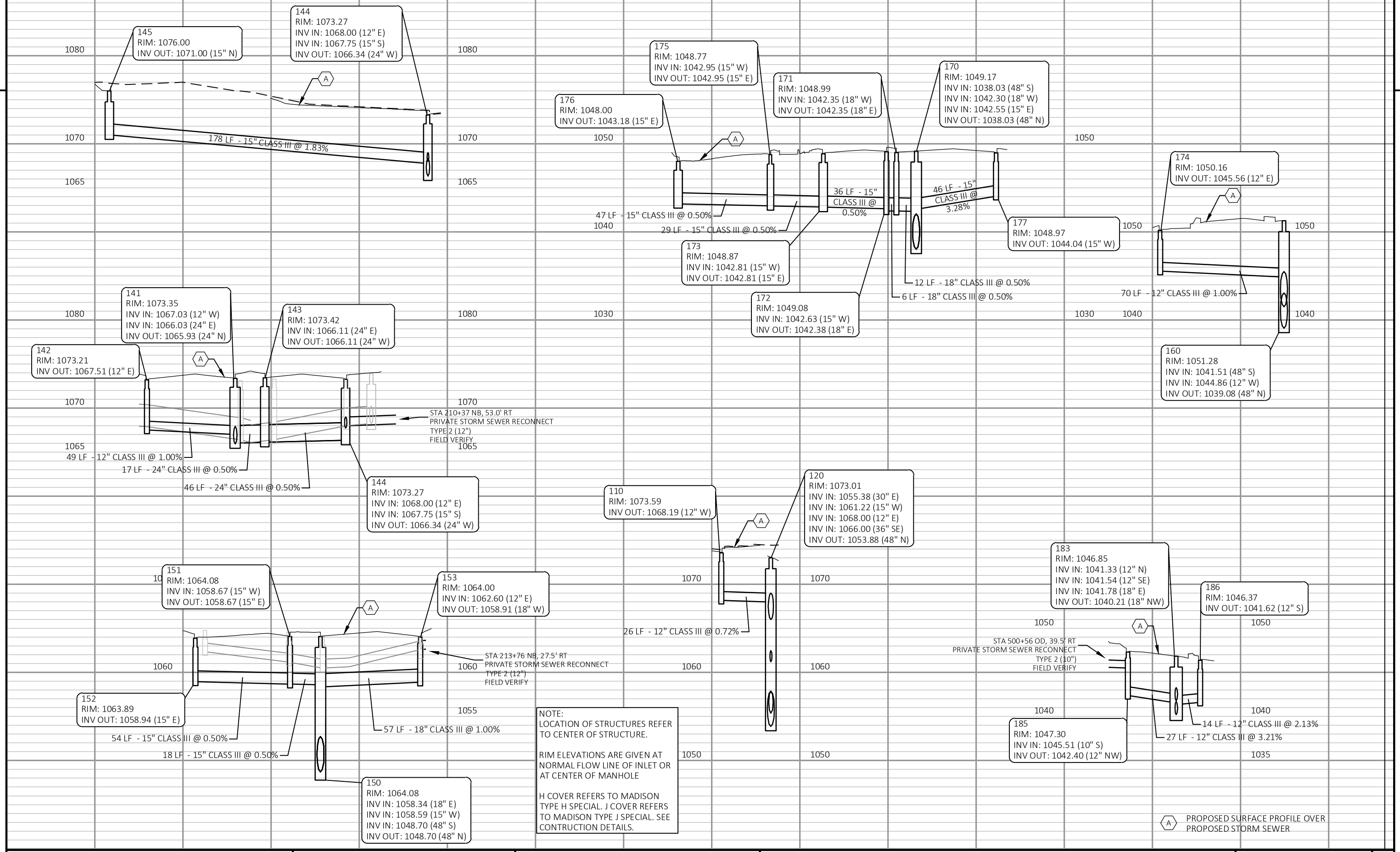
PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STORM SEWER	SHEET 81	E



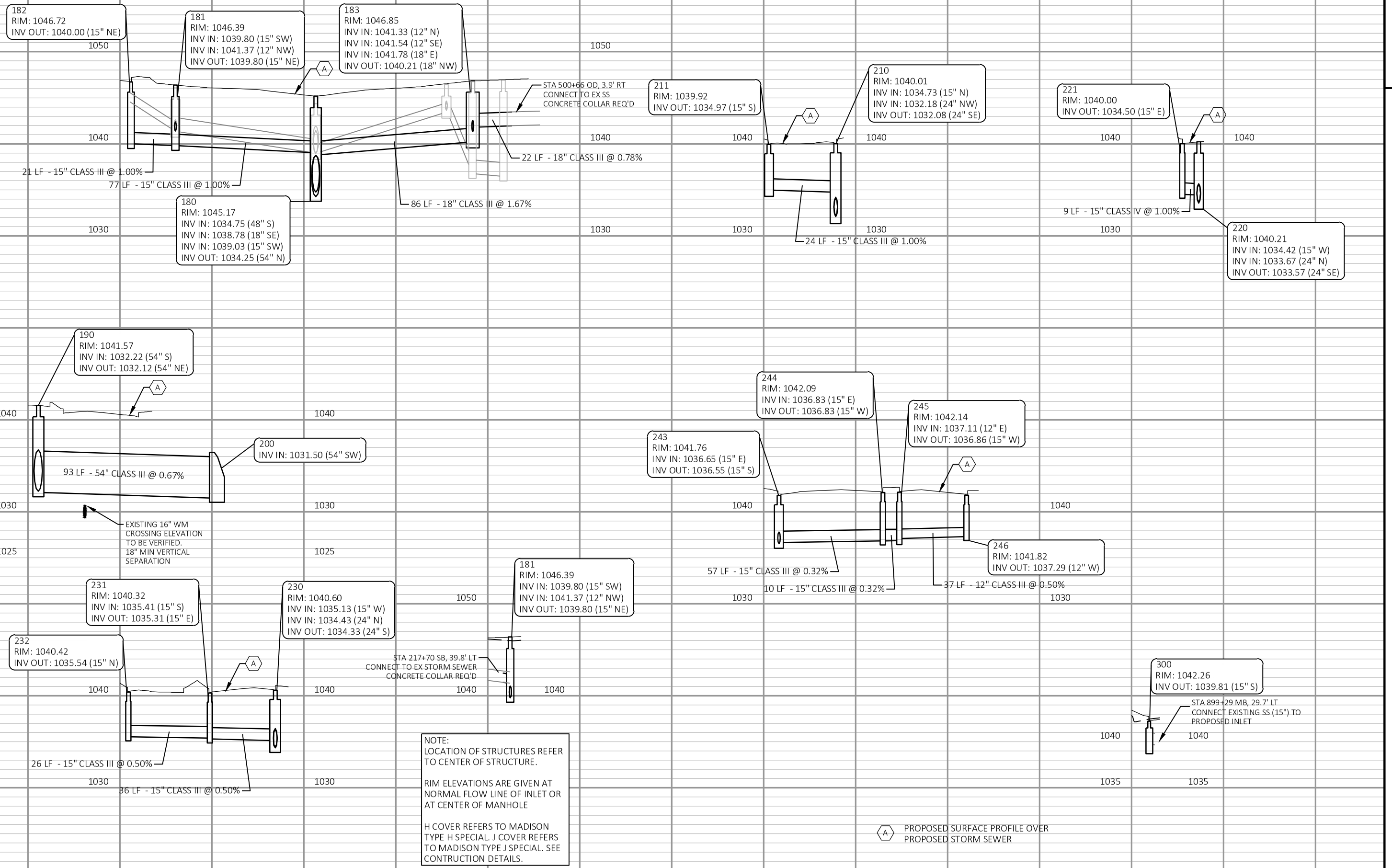
PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STORM SEWER	SHEET 82	E

FILE NAME : I:\23\41073700 - GAMMON ROAD\WK-MUN WORK\CIVIL3D\PLANSHEETS\022501-SS.DWG
LAYOUT NAME - 03 0225-ss
PLOT DATE : 10/3/2019 10:49 AM
PLOT BY : AYRES ASSOCIATES
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 41

2



PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STORM SEWER	SHEET 83	E



NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE.

RIM ELEVATIONS ARE GIVEN AT NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE

H COVER REFERS TO MADISON TYPE H SPECIAL. J COVER REFERS TO MADISON TYPE J SPECIAL. SEE CONTRUCTION DETAILS.

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STORM SEWER	SHEET 84	E

FILE NAME : I:\23\41073700 - GAMMON ROAD\WK-MUN WORK\CIVIL3D\PLANSHEETS\022501-SS.DWG
LAYOUT NAME - 05 0225-ss
PLOT DATE : 10/3/2019 10:49 AM
PLOT BY : AYRES ASSOCIATES
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 41

2

N

295+00BP
296+00BP
297+00BP
298+00BP
299+00BP
294+00BP
400+00WBO
399+00WBO
195+00WBF
196+00WBF
197+00WBF
198+00WBF
208+00SB
208+00NB

WB ON RAMP
WB OFF RAMP
GAMMON RD

110
120
100
127
STA 294+00 BP, 14.7' RT
INLETS MEDIAN 1G-MS

145
C
A
123
STA 298+30 BP, 9.3' RT
INLETS 2x2-B

121
STA 196+34 WBF, 25.5' LT
INLETS 4-H

122
STA 196+88 WBF, 38.9' LT
MANHOLES 5-J

125
STA 197+32 WBF, 40.6' LT
INLETS 5-C

126
STA 197+48 WBF, 26.0' LT
INLETS 4-H

STA 197+48 WBF, 22.1' LT
CONNECT TO EXISTING SS (18")
CONCRETE COLLAR REQ'D

EXISTING STORM SEWER
AND STORM INLET TO REMAIN

EXISTING STORM SEWER
AND STORM INLET TO REMAIN

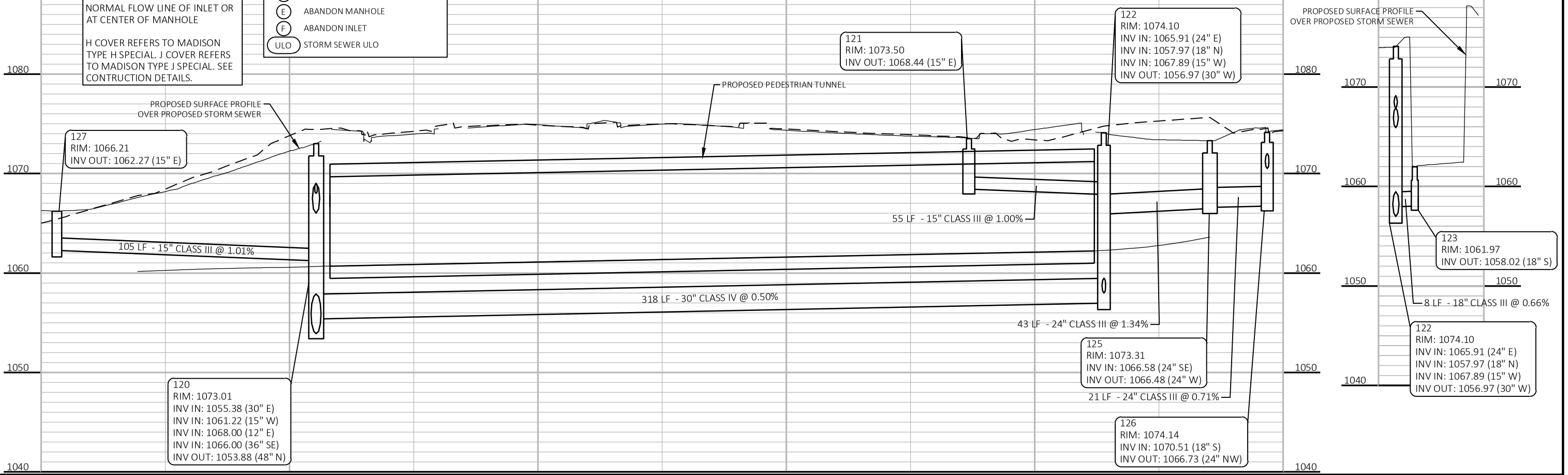
LEGEND

- (A) REMOVE STORM INLET
- (B) REMOVE STORM MANHOLE
- (C) REMOVE STORM SEWER
- (D) ABANDON CULVERT PIPE
- (E) ABANDON MANHOLE
- (F) ABANDON INLET
- (ULO) STORM SEWER ULO

NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE.

RIM ELEVATIONS ARE GIVEN AT NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE

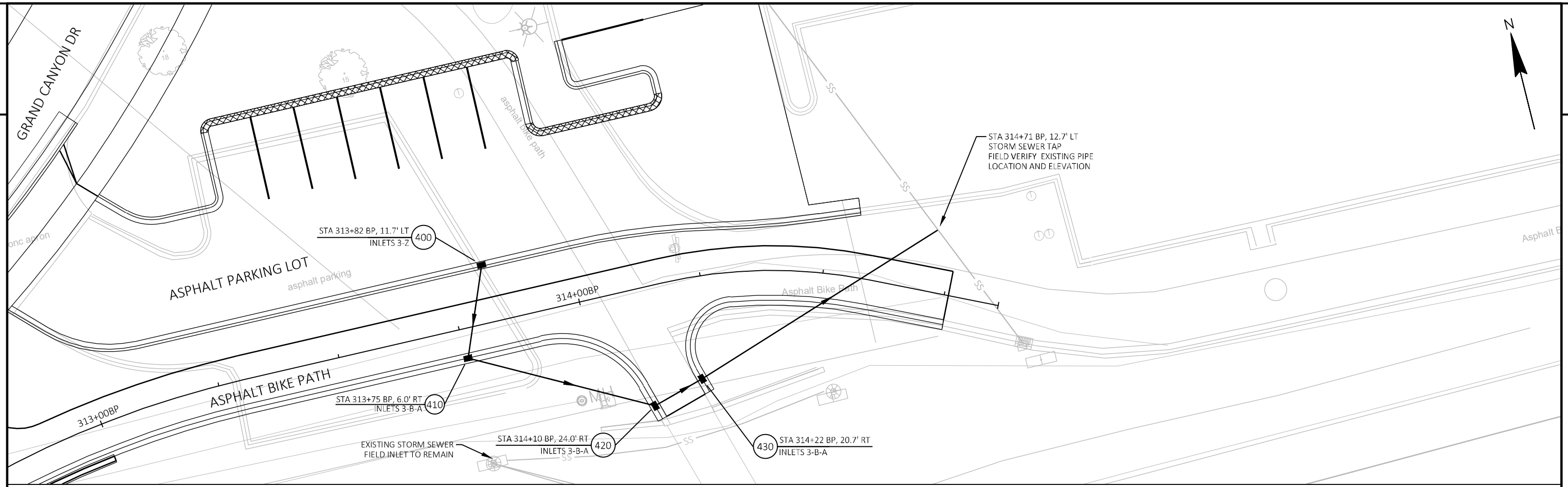
H COVER REFERS TO MADISON TYPE H SPECIAL. J COVER REFERS TO MADISON TYPE J SPECIAL. SEE CONTRUCTION DETAILS.



PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	STORM SEWER	SHEET 85	E

FILE NAME : I:\23\41073700 - GAMMON ROAD\WK-MUN WORK\CIVIL3D\PLANSHEETS\022502-SS-BIKE PATH.DWG
LAYOUT NAME - 01 0225-ss
PLOT DATE : 7/31/2019 10:56 AM
PLOT BY : AYRES ASSOCIATES
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41

2



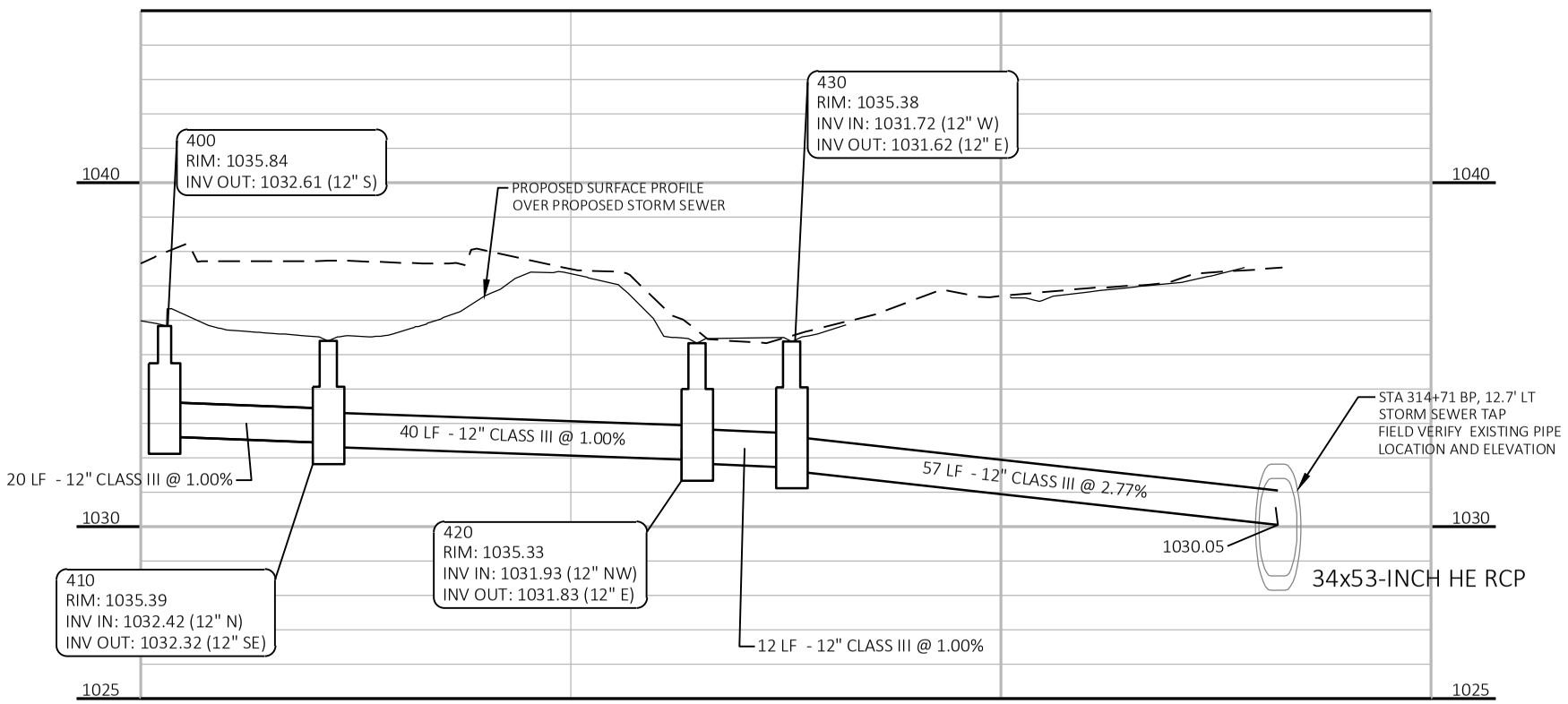
LEGEND

- (A) REMOVE STORM INLET
- (B) REMOVE STORM MANHOLE
- (C) REMOVE STORM SEWER
- (D) ABANDON CULVERT PIPE
- (E) ABANDON MANHOLE
- (F) ABANDON INLET
- (ULO) STORM SEWER ULO

NOTE:
LOCATION OF STRUCTURES REFER TO CENTER OF STRUCTURE.

RIM ELEVATIONS ARE GIVEN AT NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE

H COVER REFERS TO MADISON TYPE H SPECIAL. J COVER REFERS TO MADISON TYPE J SPECIAL. SEE CONTRUCTION DETAILS.

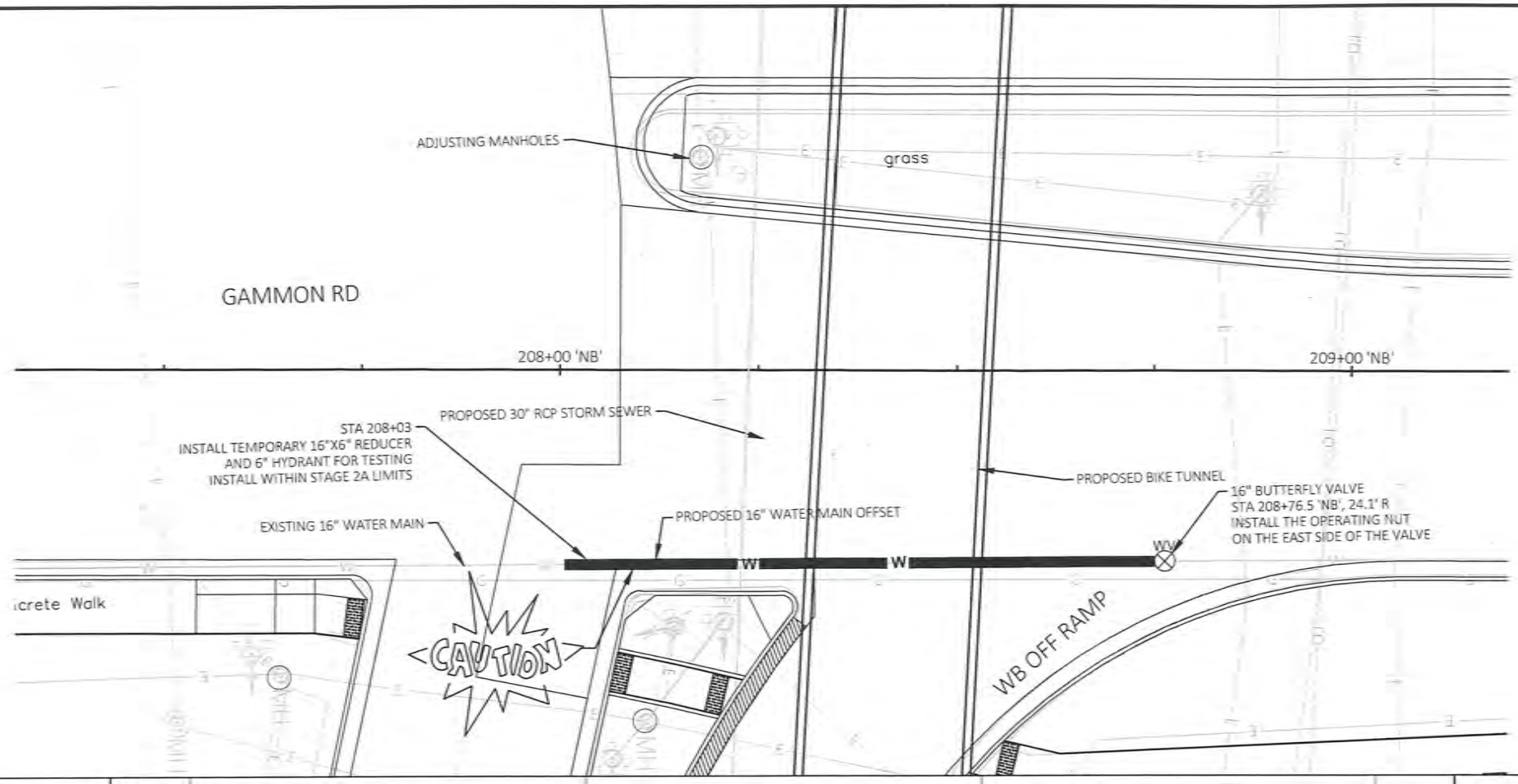


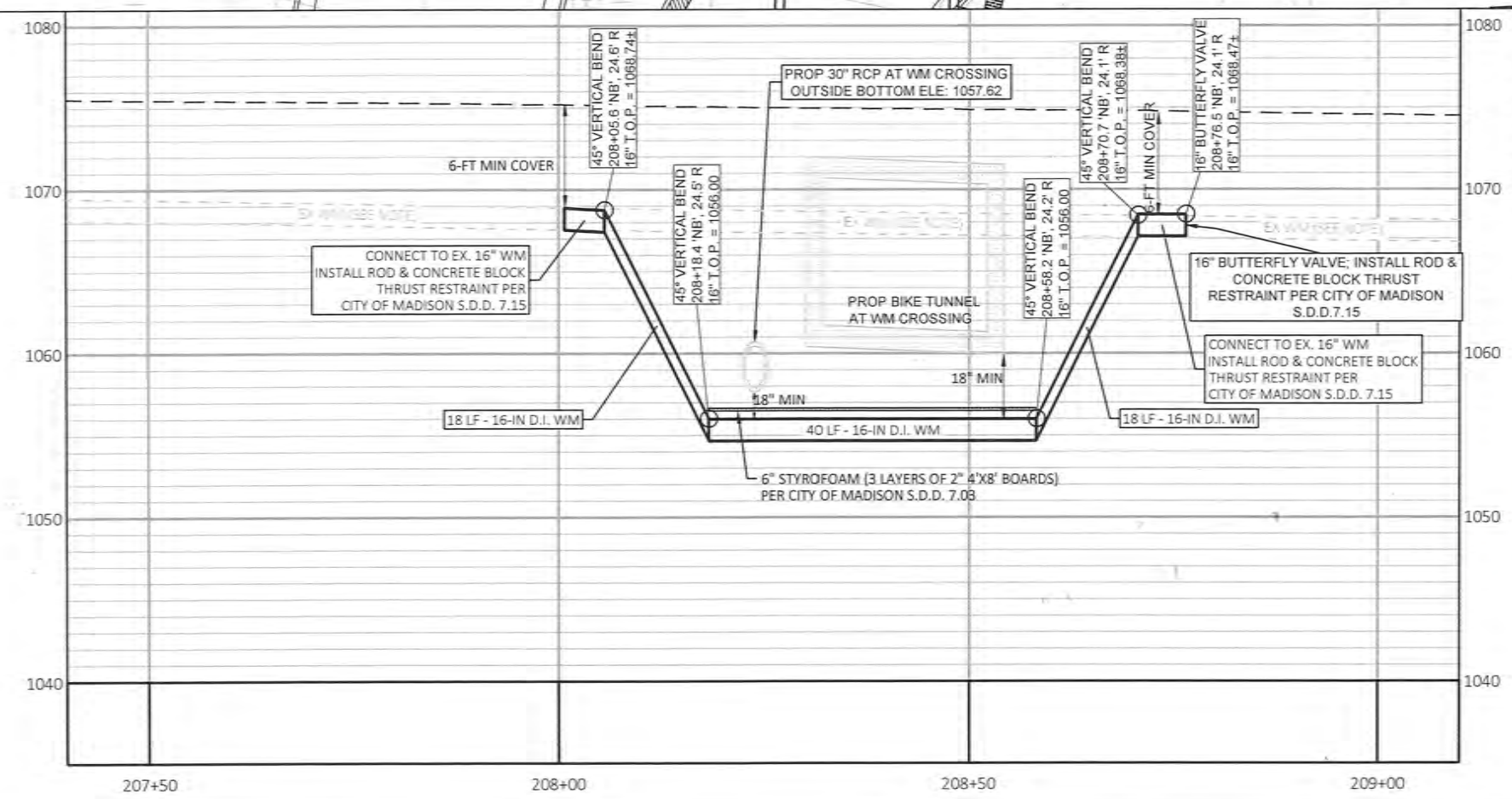
PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	STORM SEWER	SHEET 86	E

FILE NAME : I:\23\41073700 - GAMMON ROAD\WK-MUN WORK\CIVIL3D\PLANSHEETS\022502-SS-BIKE PATH.DWG
LAYOUT NAME - 02 0225-ss

PLOT DATE : 7/31/2019 10:56 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1 IN:20 FT

2





NOTE:

THE EXISTING WATER MAIN ELEVATION SHOWN IN THE PROFILE IS APPROXIMATE. THE LOCATION AND ELEVATION OF THE CONNECTION TO THE EXISTING WATER MAIN SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR IN CONJUNCTION WITH THE PROJECT ENGINEER PRIOR TO STARTING THE CONSTRUCTION OF THE WATER MAIN OFFSET.

REFER TO PART VII OF THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION FOR CONSTRUCTION METHOD SPECIFICATIONS



PROJECT NO: 5992-10-33	HWY: GAMMON RD	COUNTY: DANE	WATER MAIN RELOCATION PLAN AND SANITARY MANHOLE ADJUSTMENT PLAN	SHEET 87 E

FILE NAME : I:\23\41073700 - GAMMON ROAD\WK-MUN WORK\CIVIL3D\PLANSHEETS\023001-UP.DWG
LAYOUT NAME - 01

PLOT DATE : 7/30/2019 8:43 AM PLOT BY : AYRES ASSOCIATES PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 41

2

N

GAMMON ROAD

213+00 'SB'
214+00 'SB'
215+00 'SB'
216+00 'SB'
217+00 'SB'
218+00 'SB'
219+00 'SB'

213+00 'NB'
214+00 'NB'
215+00 'NB'
216+00 'NB'
217+00 'NB'
218+00 'NB'
219+00 'NB'

ADJUST WATER VALVE BOX SECTIONS

EXISTING 16" WATER MAIN

ADJUST WATER VALVE BOX SECTIONS

ADJUST WATER VALVE BOX SECTIONS

WEST TOWNE MALL ENTRANCE

ODANA ROAD

Asphalt parking

Concrete Walk

Conc Apron

Asphalt Drive

Asphalt Parking

WISCONSIN
KELLY B. MIESS
E-41821
MADISON WI
7/30/19
PROFESSIONAL ENGINEER

NOTE:
REFER TO PART VII OF THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION FOR CONSTRUCTION METHOD SPECIFICATIONS

GAMMON ROAD

220+00 'SB'
221+00 'SB'
222+00 'SB'
223+00 'SB'
224+00 'SB'
225+00 'SB'
226+00 'SB'
227+00 'SB'

220+00 'NB'
221+00 'NB'
222+00 'NB'
223+00 'NB'
224+00 'NB'
225+00 'NB'
226+00 'NB'
227+00 'NB'

EXISTING 16" WATER MAIN

ADJUST MMSD SAS

GAMMON PLACE

asphalt parking

concrete walk

gutter

grass

conc

PROJECT NO: 5992-10-33	HWY: GAMMON RD	COUNTY: DANE	WATER MAIN RELOCATION PLAN AND SANITARY MANHOLE ADJUSTMENT PLAN	SHEET 88 E

FILE NAME : I:\23\41073700 - GAMMON ROAD\WK-MUN WORK\CIVIL3D\PLANSHEETS\023001-UP.DWG
LAYOUT NAME - 02
PLOT DATE : 7/30/2019 8:44 AM
PLOT BY : AYRES ASSOCIATES
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 41

2

N

TDS (TELECOMMUNICATION)

FUTURE RETAINING WALL

WISDOT (STREET LIGHTING)

TEMPORARY SHORING LEFT IN PLACE

PROPOSED MULTI-USE PATH

USH 12/14 WB ON RAMP

MG&E (ELECTRIC)

ATC (BURIED ELECTRIC)

PROPOSED RETAINING WALL

CITY OF MADISON (TRAFFIC SIGNALS)

PROPOSED RETAINING WALL

WISDOT (TRAFFIC SIGNALS)

CITY OF MADISON (STREET LIGHTS)

MG&E (ELECTRIC)

CITY OF MADISON (STREET LIGHTS)

CITY OF MADISON (STORM SEWER)

WEST TOWNE MALL ENTRANCE/EXIT

WEST TOWN MALL ENTRANCE/EXIT

TRANSFORMER

CITY OF MADISON (SANITARY SEWER)

CENTURYLINK

TEMPORARY PAVEMENT

CITY OF MADISON (TRAFFIC SIGNALS)

CHARTER (FIBER)

206+00'SB'

208+00'SB'

210+00'SB'

212+00'SB'

214+00'SB'

216+00'SB'

218+00'SB'

220+00'SB'

GAMMON RD

206+00'NB'

208+00'NB'

210+00'NB'

212+00'NB'

214+00'NB'

216+00'NB'

218+00'NB'

220+00'NB'

GAMMON RD

CAUTION

CAUTION

CAUTION

CITY OF MADISON (TRAFFIC SIGNALS)

WISDOT (TRAFFIC SIGNALS)

CITY OF MADISON (STORM SEWER)

MG&E (ELECTRIC)

MG&E (ELECTRIC)

MG&E (GAS)

CITY OF MADISON (WATER)

CITY OF MADISON (WATER)

MG&E (GAS)

TEMPORARY PAVEMENT

CITY OF MADISON (WATER)

TEMPORARY PAVEMENT

CITY OF MADISON (STREET LIGHTS)

CITY OF MADISON (STREET LIGHTS)

CITY OF MADISON (SANITARY SEWER)

PROPOSED RETAINING WALL

PROPOSED PEDESTRIAN UNDERPASS

WISDOT (STREET LIGHTING)

CITY OF MADISON (TRAFFIC SIGNALS)

CITY OF MADISON (WATER)

ODANA ROAD

PROPOSED MULTI-USE PATH

ATC (BURIED ELECTRIC)

MMSD

TDS (TELECOMMUNICATION)

TEMPORARY SHORING LEFT IN PLACE

USH 12/14 WB OFF RAMP

MG&E (ELECTRIC)

W. PLATTE DR.

CAUTION

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	EXISTING UTILITIES	SHEET 89	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\020401_UT.DGN

PLOT BY : dm253 PLOT DATE : 7/31/2019 PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

N

WEST TOWNE MALL ENTRANCE/EXIT

MINERAL POINT RD.

STORM SEWER (BY OTHERS)

CITY OF MADISON (SANITARY SEWER)

CHARTER (FIBER)

CENTURYLINK

CITY OF MADISON (STREET LIGHTS)

CITY OF MADISON (TRAFFIC SIGNALS)

MG&E (GAS)

AT&T (FIBER)

CHARTER (FIBER)

ALLIANT (ELECTRIC)

AT&T (FIBER)

CITY OF MADISON (TRAFFIC SIGNALS)

CENTURYLINK

CITY OF MADISON (STORM SEWER)

MG&E (ELECTRIC)

MMSD

GAMMON RD

SB'

NB'

222+00'SB'

224+00'SB'

226+00'SB'

228+00'SB'

230+00'SB'

232+00'SB'

222+00'NB'

224+00'NB'

226+00'NB'

228+00'NB'

230+00'NB'

232+00'NB'

CAUTION

MG&E (GAS)

CITY OF MADISON (SANITARY SEWER)

CITY OF MADISON (STORM SEWER)

MMSD

CITY OF MADISON (TRAFFIC SIGNALS)

CITY OF MADISON (SANITARY SEWER)

CHARTER (FIBER)

MMSD

MG&E (GAS)

CITY OF MADISON (STREET LIGHTS)

CITY OF MADISON (WATER)

MMSD

CITY OF MADISON (TRAFFIC SIGNALS)

CENTURYLINK

GAMMON PL

MINERAL POINT RD.

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	EXISTING UTILITIES	SHEET 90	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\020402_UT.DGN PLOT BY : dm253 PLOT DATE : 7/31/2019 PLOT SCALE : 1:100

2

2

N

W. PLATTE DR.

TEMPORARY SHORING
LEFT IN PLACE

MG&E
(ELECTRIC)

TDS
(TELECOMMUNICATION)

CITY OF MADISON
(WATER)

CITY OF MADISON
(STREET LIGHTS)

CITY OF MADISON
(SANITARY SEWER)

TDS
(TELECOMMUNICATION)

ATC
(BURIED ELECTRIC)

CITY OF MADISON
(STORM SEWER)

SIGN

1" REBAR

300+00'BP'

302+00'BP'

304+00'BP'

306+00'BP'

GRAND CANYON DR.

308+00'BP'

310+00'BP'

312+00'BP'

314+00'BP'

CAUTION

CAUTION

SIGN

PROPOSED
RETAINING WALL

PROPOSED
PEDESTRIAN
UNDERPASS

ATC
(BURIED ELECTRIC)

WISDOT
(STREET LIGHTING)

TDS
(TELECOMMUNICATION)

MG&E
(ELECTRIC)

PROPOSED
MULTI-USE
PATH

CHARTER COMMUNICATIONS

PROPOSED
RETAINING WALL

TDS
(TELECOMMUNICATION)

CITY OF MADISON
(STORM SEWER)

USH 12/14

USH 12/14

PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	EXISTING UTILITIES	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\020403_UT.DGN PLOT BY : dm253 PLOT DATE : 7/31/2019 PLOT SCALE : 1:100

2

N

1-01
EAST
12 14
W Beltline Hwy
ON WOOD POSTS
SEE SPECIAL SIGN DETAILS

1-02
YIELD
R1-2
36" X 31"
ON LIGHT POLE

1-03
WEST
12 14
W Beltline Hwy
ON WOOD POSTS
SEE SPECIAL SIGN DETAILS

1-04
STOP
R1-1
18" X 18"
ON STEEL POST

1-05
NO PARKING ANY TIME
R7-1D
18" X 24"
ON LIGHT POLE

WB ON RAMP

asphalt Drive

REPLACE NB AND SB PAVEMENT MARKING
AND SIGNAGE DUE TO CONSTRUCTION STAGING

205+00'SB' 206+00'SB' 207+00'SB' 208+00'SB' 209+00'SB' 210+00'SB'

205+00'NB' 206+00'NB' 207+00'NB' 208+00'NB' 209+00'NB' 210+00'NB'

399+00'WBO' 400+00'WBO' 295+00'BP' 299+00'BP' 209+00'SW' 210+00'SW'

299+00'WBF' 297+00'WBF' 296+00'WBF' 298+00'BP'

GAMMON RD

(UNDERPASS)

WB OFF RAMP

1-06 1-07
R3-4
24" X 24"
R4-7
24" X 30"
ON SIGNAL POLE

1-08 1-09

1-10
DO NOT ENTER
R5-1
30" X 30"
ON LIGHT POLE

1-11
DO NOT ENTER
R5-1
30" X 30"
ON SIGNAL POLE

1-12
ONE WAY
R6-2L
24" X 30"
ON LIGHT POLE

1-13
STOP
R1-1F
30" X 30"
ON SIGNAL POLE

1-14
W12-1D
24" X 24"
ON WOOD POST

1-15
WEST
12
14
JV3-2
24" X 84"
ON WOOD POST

1-16
NO PARKING ANY TIME
R7-1D
18" X 24"
ON LIGHT POLE

M-01
West Towne
Entrances
Odana Rd
ON STEEL POSTS
(TRUCK ROUTE)

REPLACE AS REQUIRED DUE TO
CONSTRUCTION STAGING TO
APPROXIMATELY 203+50'NB'

LEGEND

	PROPOSED SIGN (SUPPORT TYPE SPECIFIED FOR EACH SIGN)
X-XX	SIGN NUMBER (CORRESPONDS TO MISC. QUANTITIES)
M-XX	MOVE SIGN NUMBER (CORRESPONDS TO MISC. QUANTITIES)

NOTES:
ALL SIGNS ARE TYPE II UNLESS NOTED OTHERWISE.

ALL PAVEMENT MARKING IS EPOXY UNLESS THE LABEL IS FOLLOWED BY "-C", WHICH DESIGNATES THAT THE MARKING IS GROOVED WET REF CONTRAST EPOXY, OR BY "-TP", WHICH DESIGNATES THAT THE MARKING IS GROOVED CONTRAST PERMANENT TAPE.

CBY	MARKING CURB, YELLOW
CCWG	COLORED CROSSWALK (GREEN)
INY	MARKING ISLAND NOSE, YELLOW
W4	MARKING LINE 4-INCH, WHITE
W4-12	MARKING LINE 4-INCH, WHITE, 12.5' SEG., 37.5' GAP
W6-10	MARKING LINE 6-INCH, WHITE, 10' SEG., 30' GAP
5-5	MARKING LINE 8-INCH, WHITE, 5' SEG., 5'
Y4	MARKING LINE 4-INCH, YELLOW
Y4-3	MARKING LINE 4-INCH, YELLOW, 3' SEG., 9' GAP
DY4	MARKING LINE 4-INCH, DOUBLE YELLOW
SL18	MARKING STOPLINE 18-INCH WHITE
SL24	MARKING STOPLINE 24-INCH WHITE
XW6	MARKING CROSSWALK TRANSVERSE LINE 6-INCH, WHITE
W8	MARKING LINE 8-INCH, WHITE
W8-2	MARKING LINE 8-INCH, WHITE, 2' SEG., 6' GAP
WO	MARKING WORD
A-1	MARKING ARROW TYPE 2
A-2	MARKING ARROW TYPE 3
MO	SPECIAL MARKING WORD
M-1	SPECIAL MARKING ARROW (TYPE 1)
M-2	SPECIAL MARKING ARROW (TYPE 2)
M-3	SPECIAL MARKING ARROW (TYPE 3)

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	SIGNING AND MARKING - GAMMON RD SCALE, FEET 0 20 40	SHEET 92	E

2-02 R7-1D 18" X 24" ON LIGHT POLE

2-01 SPEED LIMIT 35 R2-1 24" X 30" ON STEEL POST (TRUCK ROUTE)

2-04 WEST 12 14 JV2-2 24" X 84" ON LIGHT POLE

2-03 R1-2 18" X 15½" ON STEEL POST

asphalt Drive

CROSSWALK MARKING AND SIGNING BY OTHERS

2-05 PROVIDED BY THE CITY OF MADISON ON LIGHT POLE

Asphalt parking

2-06 R1-2 36" X 31" ON LIGHT POLE

2-08 R7-1D 18" X 24" ON LIGHT POLE

Asphalt parking

Y4-3

211+00'BC'

211+00'SW'

212+00'SW'

213+00'SW'

214+00'SW'

34+00'BD'

35+00'BD'

215+00'SW'

216+00'SW'

216+00'MAB'

W8-2

W6-10

211+00'SB'

212+00'SB'

213+00'SB'

214+00'SB'

215+00'SB'

216+00'SB'

W8

S-13-514 (SEE DETAILS)

GAMMON RD

211+00'NB'

212+00'NB'

213+00'NB'

214+00'NB'

215+00'NB'

216+00'NB'

M-2

MO ONLY

S-13-515 (SEE DETAILS)

S-13-522 (SEE DETAILS)

S-13-523 (SEE DETAILS)

S-13-516 (SEE DETAILS)

2-10 SPEED LIMIT 35 R2-1 24" X 30" ON LIGHT POLE 2-09

2-10 BUS LANE ONLY PROVIDED BY CITY OF MADISON

2-11 12 14 EAST W Beltline Hwy Gammon Rd EXIT ONLY TYPE 1

SEE SPECIAL SIGN DETAILS

2-12 Gammon Rd 12 14 WEST W Beltline Hwy TYPE 1

2-13 TRUCK ROUTES HAVE YELLOW SIGN POSTS PROVIDED BY CITY OF MADISON ON LIGHT POLE

2-14 BUS LANE ONLY PROVIDED BY CITY OF MADISON

Concrete Walk

2-15 NO PARKING ANY TIME R7-1D 18" X 24" ON LIGHT POLE

2-16 TYPE 1 West Towne LEFT ONLY ON SIGN BRIDGE SEE SPECIAL SIGN DETAILS

Asphalt Drive

Asphalt Parking

Asphalt Parking

Asphalt Parking

2-18 Odana Rd ONLY EXCEPT BUSES AND BICYCLES TYPE 1 SEE SPECIAL SIGN DETAILS

2-19 NO PARKING ANY TIME R7-1D 18" X 24" ON LIGHT POLE

LEGEND

	PROPOSED SIGN (SUPPORT TYPE SPECIFIED FOR EACH SIGN)
X-XX	SIGN NUMBER (CORRESPONDS TO MISC. QUANTITIES)
M-XX	MOVE SIGN NUMBER (CORRESPONDS TO MISC. QUANTITIES)

NOTES:
ALL SIGNS ARE TYPE II UNLESS NOTED OTHERWISE.

ALL PAVEMENT MARKING IS EPOXY UNLESS THE LABEL IS FOLLOWED BY "-C", WHICH DESIGNATES THAT THE MARKING IS GROOVED WET REF CONTRAST EPOXY, OR BY "-TP", WHICH DESIGNATES THAT THE MARKING IS GROOVED CONTRAST PERMANENT TAPE.

CBY	MARKING CURB, YELLOW
CCWG	COLORED CROSSWALK (GREEN)
INY	MARKING ISLAND NOSE, YELLOW
W4	MARKING LINE 4-INCH, WHITE
W4-12	MARKING LINE 4-INCH, WHITE, 12.5'SEG., 37.5'GAP
W6-10	MARKING LINE 6-INCH, WHITE, 10'SEG., 30'GAP
5-5	MARKING LINE 8-INCH, WHITE, 5'SEG., 5'
Y4	MARKING LINE 4-INCH, YELLOW
Y4-3	MARKING LINE 4-INCH, YELLOW, 3'SEG., 9'GAP
DY4	MARKING LINE 4-INCH, DOUBLE YELLOW
SL18	MARKING STOPLINE 18-INCH WHITE
SL24	MARKING STOPLINE 24-INCH WHITE
XW6	MARKING CROSSWALK TRANSVERSE LINE 6-INCH, WHITE
W8	MARKING LINE 8-INCH, WHITE
W8-2	MARKING LINE 8-INCH, WHITE, 2'SEG., 6'GAP
WO	MARKING WORD
A-1	MARKING ARROW TYPE 2
A-2	MARKING ARROW TYPE 3
MO	SPECIAL MARKING WORD
M-1	SPECIAL MARKING ARROW (TYPE 1)
M-2	SPECIAL MARKING ARROW (TYPE 2)
M-3	SPECIAL MARKING ARROW (TYPE 3)

LEGEND

I	PROPOSED SIGN (SUPPORT TYPE SPECIFIED FOR EACH SIGN)
X-XX	SIGN NUMBER (CORRESPONDS TO MISC. QUANTITIES)
M-XX	MOVE SIGN NUMBER (CORRESPONDS TO MISC. QUANTITIES)

NOTES:
ALL SIGNS ARE TYPE II UNLESS NOTED OTHERWISE.

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CBY	MARKING CURB, YELLOW
CCWG	COLORED CROSSWALK (GREEN)
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5-5	MARKING LINE 8-INCH, WHITE, 5' SEG., 5'
Y4	MARKING LINE 4-INCH, YELLOW
Y4-3	MARKING LINE 4-INCH, YELLOW, 3' SEG., 9' GAP
DY4	MARKING LINE 4-INCH, DOUBLE YELLOW
SL18	MARKING STOPLINE 18-INCH WHITE
SL24	MARKING STOPLINE 24-INCH WHITE
XW6	MARKING CROSSWALK TRANSVERSE LINE 6-INCH, WHITE
W8	MARKING LINE 8-INCH, WHITE
W8-2	MARKING LINE 8-INCH, WHITE, 2' SEG., 6' GAP
WO	MARKING WORD
A-1	MARKING ARROW TYPE 2
A-2	MARKING ARROW TYPE 3
MO	SPECIAL MARKING WORD
M-1	SPECIAL MARKING ARROW (TYPE 1)
M-2	SPECIAL MARKING ARROW (TYPE 2)
M-3	SPECIAL MARKING ARROW (TYPE 3)

3-04 W12-1D 24" X 24" ON STEEL POST

M-02 ← Odana Rd ON LIGHT/SIGNAL POLE ARM

3-03 W4-1 30" X 30" ON STEEL POST (TRUCK ROUTE)

3-01 R3-4 24" X 24"
3-02 R4-7 24" X 30" ON SIGNAL POLE

WEST TOWNE MALL ENTRANCE

3-05 R3-4 24" X 24"
3-06 R4-7 24" X 30" ON SIGNAL POLE

M-06 S Gammmon Rd ON LIGHT/SIGNAL POLE ARM

3-08 R3-4 24" X 24"
3-09 R4-7 24" X 30" ON SIGNAL POLE

3-10 R7-1D 18" X 24" ON LIGHT POLE

3-11 TYPE 1 Odana Rd LEFT ONLY SEE SPECIAL SIGN DETAILS

M-03 Odana Rd
M-04 S Gammon Rd ON LIGHT POLE

GAMMON RD

S-13-516 (SEE DETAILS)
S-13-517 (SEE DETAILS)
S-13-518 (SEE DETAILS)
S-13-525 (SEE DETAILS)

3-16 NO TURN ON RED R10-11B 24" X 24" ON LIGHT/ SIGNAL POLE ARM

3-18 BUS LANE ONLY PROVIDED BY CITY OF MADISON

3-19 PROVIDED BY CITY OF MADISON ON LIGHT POLE

3-20 NO PARKING ANY TIME R7-1D 18" X 24" ON LIGHT POLE

M-08 West Towne Entrance MOVE SIGN FROM EXISTING SIGN BRIDGE TO S-13-517

3-22 SPEED LIMIT 35 R2-1 24" X 30" ON SIGN BRIDGE POLE

3-23 SPEED LIMIT 35 R2-1 24" X 30" ON LIGHT POLE

3-12 NO TURN ON RED R10-11B 24" X 24" ON LIGHT/SIGNAL POLE

M-05 S Gammmon Rd ON LIGHT/SIGNAL POLE ARM

3-14 R3-4 24" X 24"
3-15 R4-7 24" X 30" ON SIGNAL POLE

M-07 Odana Rd ON LIGHT/ SIGNAL POLE ARM

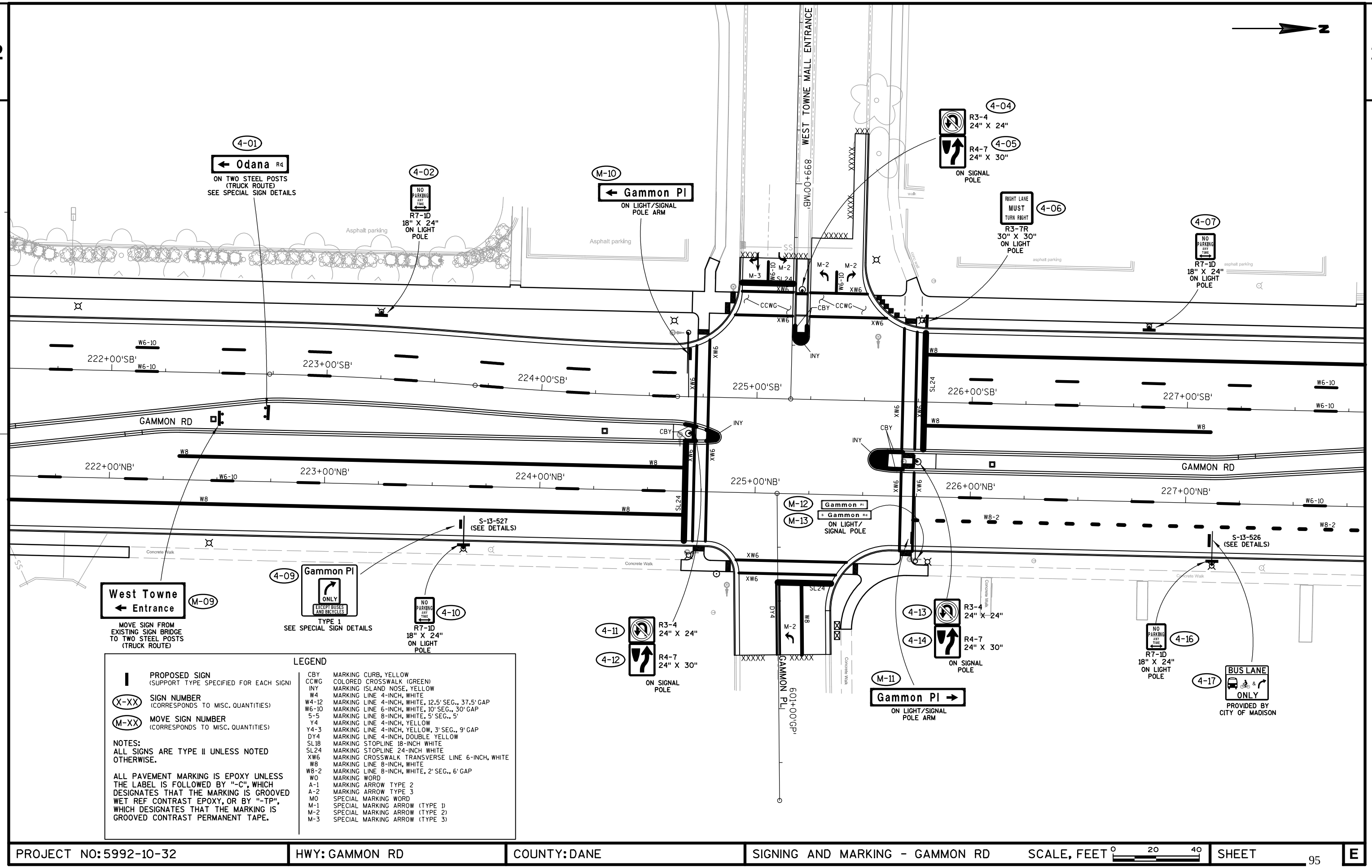
ODANA RD

REPLACE AS REQUIRED DUE TO CONSTRUCTION STAGING 200'+/- OF WB W6-10 ON ODANA RD (SEE TRAFFIC CONTROL DETAILS)

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	SIGNING AND MARKING - GAMMON RD SCALE, FEET 0 20 40	SHEET 94	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\023203_PS.dgn PLOT BY : kk226 PLOT DATE : 10/3/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42



FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\023204_PS.dgn

PLOT BY : kk226 PLOT DATE : 10/3/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

REPLACE SB PAVEMENT MARKING
AND SIGNAGE DUE TO CONSTRUCTION STAGING

MINERAL POINT RD

N

5-01 SPEED LIMIT 35 — R2-1 24" X 30" ON LIGHT POLE

5-02 SPEED LIMIT 35 — R2-1 24" X 30" ON STEEL POST (TRUCK ROUTE)

5-03 Mineral Point Rd — ON TWO STEEL POSTS (TRUCK ROUTE) SEE SPECIAL SIGN DETAILS

5-04 S1-1 36" X 36"
5-05 AHEAD W16-9P 24" X 8"
5-19 FINES HIGHER
R2-6P 24" X 18" ON STEEL POST (TRUCK ROUTE)

5-06 TRUCK ROUTE R14-1 24" X 18"
5-07 M6-4 21" X 21"
ON STEEL POST (TRUCK ROUTE)

5-08 SCHOOL SPEED LIMIT 20 WHEN CHILDREN ARE PRESENT
S4-51 24" X 48" ON STEEL POST (TRUCK ROUTE)

5-09 NO PARKING ANY TIME
R7-1D 18" X 24" ON LIGHT POLE

5-10 SPEED LIMIT 35 — R2-1 24" X 30" ON STEEL POST (TRUCK ROUTE)

5-11 SPEED LIMIT 35 — R2-1 24" X 30" ON STEEL POST (TRUCK ROUTE)

GAMMON RD

228+00'SB' 229+00'SB' 230+00'SB' 231+00'SB' 232+00'SB' 233+00'SB'

228+00'NB' 229+00'NB' 230+00'NB' 231+00'NB' 232+00'NB' 233+00'NB'

W8 W6-10 W8-2 XW6 CCWG SL24 grass asphalt parking Concrete Walk SS MH SIGN

S-13-528 (SEE DETAILS)

5-12 AHEAD W16-9P 24" X 8"
5-20 FINES HIGHER
5-13 S1-1 36" X 36"
R2-6P 24" X 18" ON STEEL POST (TRUCK ROUTE)

5-15 TRUCK ROUTE R14-1 24" X 18"
5-16 M6-4 21" X 21"
ON LIGHT POLE

5-17 SCHOOL SPEED LIMIT 20 WHEN CHILDREN ARE PRESENT
S4-51 24" X 48" ON STEEL POST (TRUCK ROUTE)

5-18 NO PARKING ANY TIME
R7-1D 18" X 24" ON LIGHT POLE

5-14 Mineral Point Rd ONLY EXCEPT BUSES AND BICYCLES
TYPE 1 SEE SPECIAL SIGN DETAILS

REPLACE NB PAVEMENT MARKING
AND SIGNAGE DUE TO CONSTRUCTION STAGING

MINERAL POINT RD

LEGEND

- I — PROPOSED SIGN (SUPPORT TYPE SPECIFIED FOR EACH SIGN)
- (X-XX) — SIGN NUMBER (CORRESPONDS TO MISC. QUANTITIES)
- (M-XX) — MOVE SIGN NUMBER (CORRESPONDS TO MISC. QUANTITIES)

NOTES:
ALL SIGNS ARE TYPE II UNLESS NOTED OTHERWISE.

ALL PAVEMENT MARKING IS EPOXY UNLESS THE LABEL IS FOLLOWED BY "-C", WHICH DESIGNATES THAT THE MARKING IS GROOVED WET REF CONTRAST EPOXY, OR BY "-TP", WHICH DESIGNATES THAT THE MARKING IS GROOVED CONTRAST PERMANENT TAPE.

CBY	MARKING CURB, YELLOW
CCWG	COLORED CROSSWALK (GREEN)
INY	MARKING ISLAND NOSE, YELLOW
W4	MARKING LINE 4-INCH, WHITE
W4-12	MARKING LINE 4-INCH, WHITE, 12.5' SEG., 37.5' GAP
W6-10	MARKING LINE 6-INCH, WHITE, 10' SEG., 30' GAP
5-5	MARKING LINE 8-INCH, WHITE, 5' SEG., 5'
Y4	MARKING LINE 4-INCH, YELLOW
Y4-3	MARKING LINE 4-INCH, YELLOW, 3' SEG., 9' GAP
DY4	MARKING LINE 4-INCH, DOUBLE YELLOW
SL18	MARKING STOPLINE 18-INCH WHITE
SL24	MARKING STOPLINE 24-INCH WHITE
XW6	MARKING CROSSWALK TRANSVERSE LINE 6-INCH, WHITE
W8	MARKING LINE 8-INCH, WHITE
W8-2	MARKING LINE 8-INCH, WHITE, 2' SEG., 6' GAP
WO	MARKING WORD
A-1	MARKING ARROW TYPE 2
A-2	MARKING ARROW TYPE 3
MO	SPECIAL MARKING WORD
M-1	SPECIAL MARKING ARROW (TYPE 1)
M-2	SPECIAL MARKING ARROW (TYPE 2)
M-3	SPECIAL MARKING ARROW (TYPE 3)

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	SIGNING AND MARKING - GAMMON RD	SCALE, FEET 0 20 40	SHEET 96	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\023205_PS.dgn PLOT BY : kk226 PLOT DATE : 10/3/2019 PLOT SCALE : 1:40

LEGEND

I	PROPOSED SIGN (SUPPORT TYPE SPECIFIED FOR EACH SIGN)
(X-XX)	SIGN NUMBER (CORRESPONDS TO MISC. QUANTITIES)
(M-XX)	MOVE SIGN NUMBER (CORRESPONDS TO MISC. QUANTITIES)

NOTES:
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CBY	MARKING CURB, YELLOW
CCWG	COLORED CROSSWALK (GREEN)
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W4	MARKING LINE 4-INCH, WHITE
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W6-10	MARKING LINE 6-INCH, WHITE, 10' SEG., 30' GAP
5-5	MARKING LINE 8-INCH, WHITE, 5' SEG., 5'
Y4	MARKING LINE 4-INCH, YELLOW
Y4-3	MARKING LINE 4-INCH, YELLOW, 3' SEG., 9' GAP
DY4	MARKING LINE 4-INCH, DOUBLE YELLOW
SL18	MARKING STOPLINE 18-INCH WHITE
SL24	MARKING STOPLINE 24-INCH WHITE
XW6	MARKING CROSSWALK TRANSVERSE LINE 6-INCH, WHITE
W8	MARKING LINE 8-INCH, WHITE
W8-2	MARKING LINE 8-INCH, WHITE, 2' SEG., 6' GAP
WO	MARKING WORD
A-1	MARKING ARROW TYPE 2
A-2	MARKING ARROW TYPE 3
MO	SPECIAL MARKING WORD
M-1	SPECIAL MARKING ARROW (TYPE 1)
M-2	SPECIAL MARKING ARROW (TYPE 2)
M-3	SPECIAL MARKING ARROW (TYPE 3)

N

YIELD 6-01
R1-2
18" X 15.5"

6-02 MOTOR DRIVEN VEHICLES PROHIBITED
(BACK TO BACK) ON STEEL POST
PROVIDED BY CITY OF MADISON

6-03 STOP
R1-1
18" X 18" ON STEEL POST

GRAND CANYON DR.

conc apron

chain line

chain line fence

SIGN

42+00'BF'

Y4-3

41+00'BF'

298+00'BP'

299+00'BP'

300+00'BP'

301+00'BP'

302+00'BP'

303+00'BP'

304+00'BP'

WO

W4-C

W8-TP

197+00'WBF'

198+00'WBF'

199+00'WBF'

200+00'WBF'

A-2

A-3

WB OFF RAMP

W4-12-TP

Y4-C

MH

SS

PROPOSED PAVEMENT MARKING TO MATCH INTO PAVEMENT MARKING ADDED UNDER WISDOT PROJECT ID 5300-00-71 IN 2019.

REPLACE WB OFF-RAMP PAVEMENT MARKING AND SIGNAGE DUE TO CONSTRUCTION STAGING

PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	SIGNING AND MARKING - GAMMON RD SCALE, FEET 0 20 40	SHEET 97	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\023206_PS.dgn PLOT BY : kk226 PLOT DATE : 10/3/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

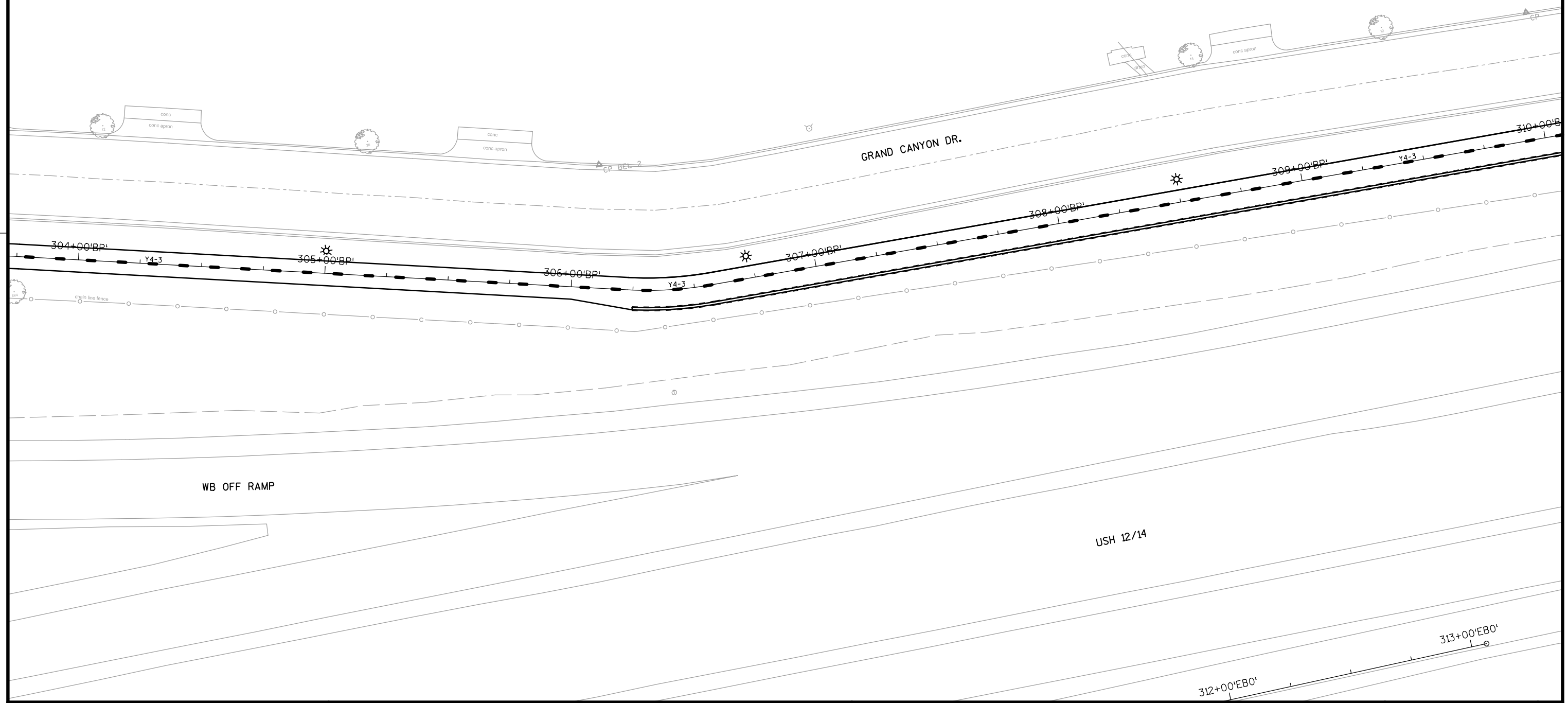
LEGEND

I	PROPOSED SIGN (SUPPORT TYPE SPECIFIED FOR EACH SIGN)
(X-XX)	SIGN NUMBER (CORRESPONDS TO MISC. QUANTITIES)
(M-XX)	MOVE SIGN NUMBER (CORRESPONDS TO MISC. QUANTITIES)

NOTES:
ALL SIGNS ARE TYPE II UNLESS NOTED OTHERWISE.

ALL PAVEMENT MARKING IS EPOXY UNLESS THE LABEL IS FOLLOWED BY "-C", WHICH DESIGNATES THAT THE MARKING IS GROOVED WET REF CONTRAST EPOXY, OR BY "-TP", WHICH DESIGNATES THAT THE MARKING IS GROOVED CONTRAST PERMANENT TAPE.

CBY	MARKING CURB, YELLOW
CCWG	COLORED CROSSWALK (GREEN)
INY	MARKING ISLAND NOSE, YELLOW
W4	MARKING LINE 4-INCH, WHITE
W4-12	MARKING LINE 4-INCH, WHITE, 12.5' SEG., 37.5' GAP
W6-10	MARKING LINE 6-INCH, WHITE, 10' SEG., 30' GAP
5-5	MARKING LINE 8-INCH, WHITE, 5' SEG., 5'
Y4	MARKING LINE 4-INCH, YELLOW
Y4-3	MARKING LINE 4-INCH, YELLOW, 3' SEG., 9' GAP
DY4	MARKING LINE 4-INCH, DOUBLE YELLOW
SL18	MARKING STOPLINE 18-INCH WHITE
SL24	MARKING STOPLINE 24-INCH WHITE
XW6	MARKING CROSSWALK TRANSVERSE LINE 6-INCH, WHITE
W8	MARKING LINE 8-INCH, WHITE
W8-2	MARKING LINE 8-INCH, WHITE, 2' SEG., 6' GAP
WO	MARKING WORD
A-1	MARKING ARROW TYPE 2
A-2	MARKING ARROW TYPE 3
MO	SPECIAL MARKING WORD
M-1	SPECIAL MARKING ARROW (TYPE 1)
M-2	SPECIAL MARKING ARROW (TYPE 2)
M-3	SPECIAL MARKING ARROW (TYPE 3)



PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	SIGNING AND MARKING - GAMMON RD SCALE, FEET 0 20 40	SHEET 98 E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\023207_PS.dgn PLOT BY : kk226 PLOT DATE : 10/3/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

2

N

BIKE ROUTE M-14

MOVE SIGN ON STEEL POST

YIELD 8-01

R1-2
18" X 15.5"

M-15 MOTOR DRIVEN VEHICLES PROHIBITED

(BACK TO BACK) ON STEEL POST

GRAND CANYON DR.

conc apron

CP

310+00'BP'

311+00'BP'

312+00'BP'

313+00'BP'

314+00'BP'

Y4-3

Y4

XXXXX

XXXX

SS

MH

12+00'BJ'

Struck Canyon Underpass PATH 8-03

PROVIDED BY CITY OF MADISON (ABOVE YIELD SIGN)

West Beltline BIKE PATH NO MOTORIZED VEHICLES 8-04

PROVIDED BY CITY OF MADISON (ABOVE YIELD SIGN)

YIELD 8-05

R1-2
18" X 15.5"
ON STEEL POST

USH 12/14

W3-2 8-02

30" X 30"
ON STEEL POST

LEGEND

I	PROPOSED SIGN (SUPPORT TYPE SPECIFIED FOR EACH SIGN)
X-XX	SIGN NUMBER (CORRESPONDS TO MISC. QUANTITIES)
M-XX	MOVE SIGN NUMBER (CORRESPONDS TO MISC. QUANTITIES)

NOTES:
ALL SIGNS ARE TYPE II UNLESS NOTED OTHERWISE.

ALL PAVEMENT MARKING IS EPOXY UNLESS THE LABEL IS FOLLOWED BY "-C", WHICH DESIGNATES THAT THE MARKING IS GROOVED WET REF CONTRAST EPOXY, OR BY "-TP", WHICH DESIGNATES THAT THE MARKING IS GROOVED CONTRAST PERMANENT TAPE.

CBY	MARKING CURB, YELLOW
CCWG	COLORED CROSSWALK (GREEN)
INY	MARKING ISLAND NOSE, YELLOW
W4	MARKING LINE 4-INCH, WHITE
W4-12	MARKING LINE 4-INCH, WHITE, 12.5'SEG., 37.5'GAP
W6-10	MARKING LINE 6-INCH, WHITE, 10'SEG., 30'GAP
5-5	MARKING LINE 8-INCH, WHITE, 5'SEG., 5'
Y4	MARKING LINE 4-INCH, YELLOW
Y4-3	MARKING LINE 4-INCH, YELLOW, 3'SEG., 9'GAP
DY4	MARKING LINE 4-INCH, DOUBLE YELLOW
SL18	MARKING STOPLINE 18-INCH WHITE
SL24	MARKING STOPLINE 24-INCH WHITE
XW6	MARKING CROSSWALK TRANSVERSE LINE 6-INCH, WHITE
W8	MARKING LINE 8-INCH, WHITE
W8-2	MARKING LINE 8-INCH, WHITE, 2'SEG., 6'GAP
WO	MARKING WORD
A-1	MARKING ARROW TYPE 2
A-2	MARKING ARROW TYPE 3
MO	SPECIAL MARKING WORD
M-1	SPECIAL MARKING ARROW (TYPE 1)
M-2	SPECIAL MARKING ARROW (TYPE 2)
M-3	SPECIAL MARKING ARROW (TYPE 3)

PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	SIGNING AND MARKING - GAMMON RD SCALE, FEET 0 20 40	SHEET 99	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\023208_PS.dgn

PLOT BY : kk226 PLOT DATE : 10/3/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

2

LEGEND

- (1) - 2" CONDUIT UNLESS OTHERWISE NOTED
- (1) - 3" CONDUIT UNLESS OTHERWISE NOTED
- LOOP DETECTOR WIRES
- HANDHOLE TYPE 1
- HANDHOLE TYPE 3
- HANDHOLE TYPE 5
- TYPE P OR M BASE
- LB-3 BASE
- SL NUMBER - ALLNIGHT/MIDNIGHT - CABINET - TYPE A OR B
- UNDERPASS LED WALL LUMINAIRES
- LB-2 BASE - PATH LIGHTING
- MONOTUBE BASE
- LB-8 BASE
- G-BASE
- PEDESTRIAN SIGNAL + PUSH BUTTON
- TRAFFIC SIGNAL HEAD

PERMANENT 12" SIGNAL HEAD WITH BACKPLATES

RA, YA, GA	3, 12
RA, YA, GA	8, 14, 15
R, Y, G	1, 2, 4, 7, 9, 13,
R, Y, G	5, 6, 10, 11

N

USH 12/14

GAMMON RD

WB ON RAMP

WB OFF RAMP

RETAINING WALL R-13-338

RETAINING WALL R-13-339

asphalt Drive

MATCH AND CONNECT TO EXISTING CONDUITS

MATCH AND CONNECT TO EXISTING CONDUITS

MH1 MH2 MH3 MH4 MH5 MH6 MH7 MH8 MH9 MH10 MH11 MH12 MH13 MH14 MH16 MH17

HH38 HH39

TSB1 TSB2 TSB3 TSB4 TSB5 TSB6 TSB7 TSB8 TSB9 TSB10 TSB11 TSB12

4793-A-SLC1-TA
P1-A-SLC1
4800-A-SLC1-TA
4802-M-SLC1
4792-A-SLC1-TA
4794-A-SLC1-TA
4791-A-SLC1-TB
4801-A-SLC1-TA
SSL1-A-*-TA
SSL2-A-*-TA
SLC2 TYPE M

U1-A-SLC2 U2-A-SLC2 U3-A-SLC2 U4-A-SLC2 U5-A-SLC2 U6-A-SLC2 U7-A-SLC2

L-B3 L-B4 B5

PEDESTRIAN UNDERPASS B-13-870

399+00'WBO' 400+00'WBO' 295+00'BP' 296+00'BP' 195+00'WBF' 196+00'WBF' 298+00'BP'

205+00'SB' 206+00'SB' 208+00'SB' 209+00'SB' 210+00'SB'

205+00'NB' 206+00'NB' 209+00'NB' 210+00'NB'

209+00'BC' 210+00'BC' 210+00'SW'

Concrete Walk

USH 12/14 RAMPS - PERMANENT SIGNAL PHASE CONFIGURATION WITH HEAD NUMBERS

PHASE 1: NORTHBOUND LEFT TURN VEHICLE: 3, 12	PHASE 2: SOUTHBOUND VEHICLE: 2, 4, 10, 11 PED CROSSING WEST LEG: B1, B2	PHASE 3: SOUTHBOUND VEHICLE: 2, 4, 10, 11 PED CROSSING WEST LEG: B1, B2	PHASE 4: WESTBOUND & LEFT TURN VEHICLE: 1, 7, 9
	PHASE 6: NORTHBOUND VEHICLE: 5, 6, 13 PED CROSSING EAST LEG: B3, B4, B5, B6		PHASE 8: WESTBOUND RIGHT TURN VEHICLE: 8, 11, 12

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	LIGHTING AND SIGNAL PLAN	SCALE, FEET 0 20 40

SHEET 100 E

2

2

N

RETAINING WALL
R-13-343

RETAINING WALL
R-13-339

asphalt Drive

Asphalt parking

Asphalt parking

211+00'BC'

211+00'SW'

212+00'SW'

214+00'SW'

34+00'BD'

35+00'BD'

215+00'SW'

216+00'SW'

216+00'MAB'

4802-M-SLC1-TA

4804-A-SLC1-TA

4806-M-SLC1-TA

4808-A-SLC1-TA

4810-M-SLC1-TA

4812-A-SLC1-TA

B3

211+00'SB'

212+00'SB'

213+00'SB'

214+00'SB'

215+00'SB'

216+00'SB'

B4

GAMMON RD

GAMMON RD

211+00'NB'

212+00'NB'

213+00'NB'

214+00'NB'

216+00'NB'

4803-M-SLC1-TA

4805-A-SLC1-TA

HH37

4807-M-SLC1-TA

4809-A-SLC1-TA

HH36

4811-M-SLC1-TA

L-O26

L-O27

L-O28

Concrete Walk

Asphalt Drive

3/4" REBAR

Asphalt Parking

Asphalt Parking

1" IP

1-1/4" IP

3/4" REBAR

Asphalt Parking

PERMANENT 12"

LEGEND

- (1) - 2" CONDUIT UNLESS OTHERWISE NOTED
- (1) - 3" CONDUIT UNLESS OTHERWISE NOTED
- LOOP DETECTOR WIRES
- HANDHOLE TYPE 1
- HANDHOLE TYPE 3
- HANDHOLE TYPE 5
- TYPE P OR M BASE
- LB-3 BASE
- SL NUMBER - ALLNIGHT/MIDNIGHT - CABINET - TYPE A OR B
- UNDERPASS LED WALL LUMINAIRES
- LB-2 BASE - PATH LIGHTING
- MONOTUBE BASE
- LB-8 BASE
- G-BASE
- PEDESTRIAN SIGNAL + PUSH BUTTON
- TRAFFIC SIGNAL HEAD

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	LIGHTING AND SIGNAL PLAN	SCALE, FEET 0 20 40	SHEET 101	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\023601_LP-SP_Gammon.dgn

PLOT BY : kk226 PLOT DATE : 10/15/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

N

MALL ENTRANCE

HH27 HH26 TSO2 TSO1 4815-A-SLC1-TA TWIN ARMS CHSL X 1-1/4" REBAR TSO11 4814-A-SLC1-TA HH21 TSO10 HH25 HH24 HH23 TSO13 HH22 4813-A-SLC1-TA TSO12 HH20 HH19 L-O21 L-O22 HH34 L-O23 L-O24 HH35 L-O25 L-O11 HH28 L-O12 TSO3 HH29 4818-M-SLC1-TA TSO4 L-O13 4819-A-SLC1-TA TSO5 HH30 HH33 4820-A-SLC1-TA 4822-M-SLC1-TA 4824-A-SLC1-TA L-O1 L-O2 L-O3 L-O4 L-O5 L-O6 L-O7 TSO6 HH31 HH32 L-O8 L-O9 L-O10 HH18 4817-A-SLC1-TB TSO7 TSO8 4816-A-SLC1-TA TSO9 TSC2 TYPE P 4821-M-SLC1-TA 4823-A-SLC1-TA HH17 L-O14 L-O15 L-O16 L-O19 L-O17 L-O20 L-O18

217+00'MAB' 217+00'SW' 217+00'NB' 218+00'SB' 218+00'NB' 219+00'SB' 219+00'NB' 220+00'SB' 220+00'NB' 221+00'SB' 221+00'NB' 222+00'SB' 222+00'NB'

GAMMON RD GAMMON RD

ODANA RD

35' ARM MONOTUBE 30' ARM MONOTUBE 15' ARM MONOTUBE

Asphalt parking Asphalt parking Asphalt Drive Asphalt Drive Concrete Walk Concrete Walk Concrete Walk Concrete Walk Concrete Walk Concrete Walk Concrete

3/4" REBAR

PERMANENT 12" SIGNAL HEAD WITH BACKPLATES

RA, YA, GA	1, 2, 7, 8, 9, 13, 14, 20, 21, 25
R, Y, G	3, 4, 5, 6, 10, 11, 12, 16, 17, 18, 19, 22, 23, 24

ODANA RD - PERMANENT SIGNAL PHASE CONFIGURATION WITH HEAD NUMBERS

PHASE 1: NORTHBOUND LEFT TURN VEHICLE: 25, 13, 14	PHASE 2: SOUTHBOUND VEHICLE: 3, 4, 5, 12 PED CROSSING WEST LEG: O2, O3	PHASE 3: WESTBOUND LEFT TURN VEHICLE: 8, 9, 20	PHASE 4: EASTBOUND VEHICLE: 6, 22, 23 PED CROSSING SOUTH LEG: O1, O8
PHASE 5: SOUTHBOUND LEFT TURN VEHICLE: 1, 2, 15	PHASE 6: NORTHBOUND VEHICLE: 16, 17, 18, 24 PED CROSSING EAST LEG: O6, O7	PHASE 7: EASTBOUND LEFT TURN VEHICLE: 7, 21	PHASE 8: WESTBOUND VEHICLE: 10, 11, 19 PED CROSSING SOUTH LEG: O4, O5

LEGEND

- (1) - 2" CONDUIT UNLESS OTHERWISE NOTED
- (1) - 3" CONDUIT UNLESS OTHERWISE NOTED
- LOOP DETECTOR WIRES
- HANDHOLE TYPE 1
- HANDHOLE TYPE 3
- HANDHOLE TYPE 5
- TYPE P OR M BASE
- LB-3 BASE
- SL NUMBER - ALLNIGHT/MIDNIGHT - CABINET - TYPE A OR B
- UNDERPASS LED WALL LUMINAIRES
- LB-2 BASE - PATH LIGHTING
- MONOTUBE BASE
- LB-8 BASE
- G-BASE
- PEDESTRIAN SIGNAL + PUSH BUTTON
- TRAFFIC SIGNAL HEAD

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	LIGHTING AND SIGNAL PLAN	SCALE, FEET 0 20 40	SHEET 102	E

PERMANENT 12" SIGNAL HEAD WITH BACKPLATES

RA, SY, FY, GA	1, 12, 13, 20, 22, 23
R, Y, G	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 14, 15, 16, 17, 18, 21,
R Y G	19

GAMMON PL - PERMANENT SIGNAL PHASE CONFIGURATION WITH HEAD NUMBERS

PHASE 1: NORTHBOUND LEFT TURN VEHICLE: 12, 22, 23	PHASE 2: SOUTHBOUND VEHICLE: 2, 3, 4, 11 FLASHING YELLOW: 1, 13, 20 PED CROSSING WEST LEG: G3, G4	PHASE 4: EASTBOUND / WESTBOUND VEHICLE: 5, 6, 7, 8, 9, 10, 17, 18, 19 PED CROSSING NORTH / SOUTH LEGS: G1, G2, G5, G6, G7, G8, G11, G12
PHASE 5: SOUTHBOUND LEFT TURN VEHICLE: 1, 13, 20	PHASE 6: NORTHBOUND VEHICLE: 14, 15, 16, 21 FLASHING YELLOW: 12, 22, 23 PED CROSSING EAST LEG: G9, G10	

LEGEND

- (1) - 2" CONDUIT UNLESS OTHERWISE NOTED
- (1) - 3" CONDUIT UNLESS OTHERWISE NOTED
- LOOP DETECTOR WIRES
- HANDHOLE TYPE 1
- HANDHOLE TYPE 3
- HANDHOLE TYPE 5
- TYPE P OR M BASE
- LB-3 BASE
- SL NUMBER - ALLNIGHT/MIDNIGHT - CABINET - TYPE A OR B
- UNDERPASS LED WALL LUMINAIRES
- LB-2 BASE - PATH LIGHTING
- MONOTUBE BASE
- LB-8 BASE
- G-BASE
- PEDESTRIAN SIGNAL + PUSH BUTTON
- TRAFFIC SIGNAL HEAD

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	LIGHTING AND SIGNAL PLAN SCALE, FEET 0 20 40	SHEET 103 E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\023603_LP-SP_Gammon.dgn PLOT BY : kk226 PLOT DATE : 10/15/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

N

MINERAL POINT RD

asphalt parking

asphalt parking

asphalt parking

asphalt parking

Concrete walk

4837-A-SLC1-TA

4839-M-SLC1-TA

HH1

L-G1

L-G2

L-G3

SB'

229+00'SB'

230+00'SB'

231+00'SB'

232+00'SB'

233+00'SB'

GAMMON RD

HH47

grass

GAMMON RD

B'

229+00'NB'

230+00'NB'

231+00'NB'

232+00'NB'

233+00'NB'

4836-A-SLC1-TA

HH3

3/4" REBAR

4838-M-SLC1-TA

4840-A-SLC1-TA

Concrete Walk

Concrete Walk

Concrete Walk

SIGN

HH2

3/4" REBAR

CONNECT TO EXISTING STREET LIGHT CONDUIT. COORDINATE WITH CITY OF MADISON, MIKE BENZSCHAWEL (266-9031).

SIGN

HH4

3/4" REBAR

MINERAL POINT RD

LEGEND

———	(1) - 2" CONDUIT UNLESS OTHERWISE NOTED
———	(1) - 3" CONDUIT UNLESS OTHERWISE NOTED
– – –	LOOP DETECTOR WIRES
	HANDHOLE TYPE 1
	HANDHOLE TYPE 3
	HANDHOLE TYPE 5
	TYPE P OR M BASE
	LB-3 BASE SL NUMBER - ALLNIGHT/MIDNIGHT - CABINET - TYPE A OR B
	UNDERPASS LED WALL LUMINAIRES
	LB-2 BASE - PATH LIGHTING
	MONOTUBE BASE
	LB-8 BASE
	G-BASE
	PEDESTRIAN SIGNAL + PUSH BUTTON
	TRAFFIC SIGNAL HEAD

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	LIGHTING AND SIGNAL PLAN	SCALE, FEET 0 20 40	SHEET 104	E

2

N

PEDESTRIAN
UNDERPASS
B-13-870

MH6

U8-A-SLC2

HH40

298+00'BP'

299+00'BP'

P2-A-SLC2

300+00'BP'

HH41

301+00'BP'

P3-A-SLC2
DOUBLE FIXTURE

HH46

302+00'BP'

303+00'BP'

P4-A-SLC2

HH42

304+00'BP'

P12-A-SLC2

42+00'BF'

41+00'BF'

1-1/4" REBAR

GRAND CANYON DR

WB OFF RAMP 197+00'WBF'

L-B1

L-B2

198+00'WBF'

MH15

MH

199+00'WBF'

200+00'WBF'

INL

SIGN

W

chain link fence

conc apron

WB OFF RAMP

WB USH 12/14

8, 11, 12

LEGEND

----	(1) - 2" CONDUIT UNLESS OTHERWISE NOTED
——	(1) - 3" CONDUIT UNLESS OTHERWISE NOTED
- - -	LOOP DETECTOR WIRES
	HANDHOLE TYPE 1
	HANDHOLE TYPE 3
	HANDHOLE TYPE 5
	TYPE P OR M BASE
	LB-3 BASE
	SL NUMBER - ALLNIGHT/MIDNIGHT - CABINET - TYPE A OR B
	UNDERPASS LED WALL LUMINAIRES
	LB-2 BASE - PATH LIGHTING
	MONOTUBE BASE
	LB-8 BASE
	G-BASE
	PEDESTRIAN SIGNAL + PUSH BUTTON
	TRAFFIC SIGNAL HEAD

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	LIGHTING AND SIGNAL PLAN SCALE, FEET 0 20 40	SHEET 105	E

2

2

N

LEGEND	
	(1) - 2" CONDUIT UNLESS OTHERWISE NOTED
	(1) - 3" CONDUIT UNLESS OTHERWISE NOTED
	LOOP DETECTOR WIRES
	HANDHOLE TYPE 1
	HANDHOLE TYPE 3
	HANDHOLE TYPE 5
	TYPE P OR M BASE
	LB-3 BASE
	SL NUMBER - ALLNIGHT/MIDNIGHT - CABINET - TYPE A OR B
	UNDERPASS LED WALL LUMINAIRES
	LB-2 BASE - PATH LIGHTING
	MONOTUBE BASE
	LB-8 BASE
	G-BASE
	PEDESTRIAN SIGNAL + PUSH BUTTON
	TRAFFIC SIGNAL HEAD

GRAND CANYON DR

P5-A-SLC2

305+00'BP'

306+00'BP'

P6-A-SLC2

HH43

307+00'BP'

308+00'BP'

P7-A-SLC2

309+00'BP'

P8-A-SLC2

310+00'BP'

RETAINING WALL
R-13-342

WB OFF RAMP

WB USH 12/14

INL

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	LIGHTING AND SIGNAL PLAN	SCALE, FEET 0 20 40	SHEET 106	E

2

N

LEGEND

- (1) - 2" CONDUIT UNLESS OTHERWISE NOTED
- (1) - 3" CONDUIT UNLESS OTHERWISE NOTED
- LOOP DETECTOR WIRES
- HANDHOLE TYPE 1
- HANDHOLE TYPE 3
- HANDHOLE TYPE 5
- TYPE P OR M BASE
- LB-3 BASE
- SL NUMBER - ALLNIGHT/MIDNIGHT - CABINET - TYPE A OR B
- UNDERPASS LED WALL LUMINAIRES
- LB-2 BASE - PATH LIGHTING
- MONOTUBE BASE
- LB-8 BASE
- G-BASE
- PEDESTRIAN SIGNAL + PUSH BUTTON
- TRAFFIC SIGNAL HEAD

CONTRACTOR TO REMOVE ALL EXISTING UNDERPASS LIGHTING, FURNISH & INSTALL REPLACEMENT LED LIGHTING FOR EVERY OTHER EXISTING FIXTURE LOCATION STARTING WITH THE FIRST ONE (NORTH TO SOUTH) ON THE EAST SIDE AND THE FIRST ONE (NORTH TO SOUTH) ON THE WEST SIDE OF THE STRUCK UNDERPASS WITH VPF 123-80W -DIM-4000K-120-CP-GRY-WET-TX/SD. REPLACE ALL WIRING. PLATE LOCATIONS TO COVER EMPTY SPACE ON WALLS WHERE NEW FIXTURES WILL NOT BE INSTALLED.

TOTAL FIXTURES TO BE REMOVED - 31
TOTAL FIXTURES TO BE INSTALLED - 14

GRAND CANYON DR

P11-A-SLC2

P8-A-SLC2

HH44

P9-A-SLC2

311+00'BP'

312+00'BP'

313+00'BP'

314+00'BP'

HB00+05

MH

SIGN

INL

W

SS

Asphalt Bike Path

HH45
P10-A-SLC2

STUB CONDUITS TO PROJECT LIMITS

12+00BU'

RETAINING WALL
R-13-342

WB USH 12/14

EB USH 12/14

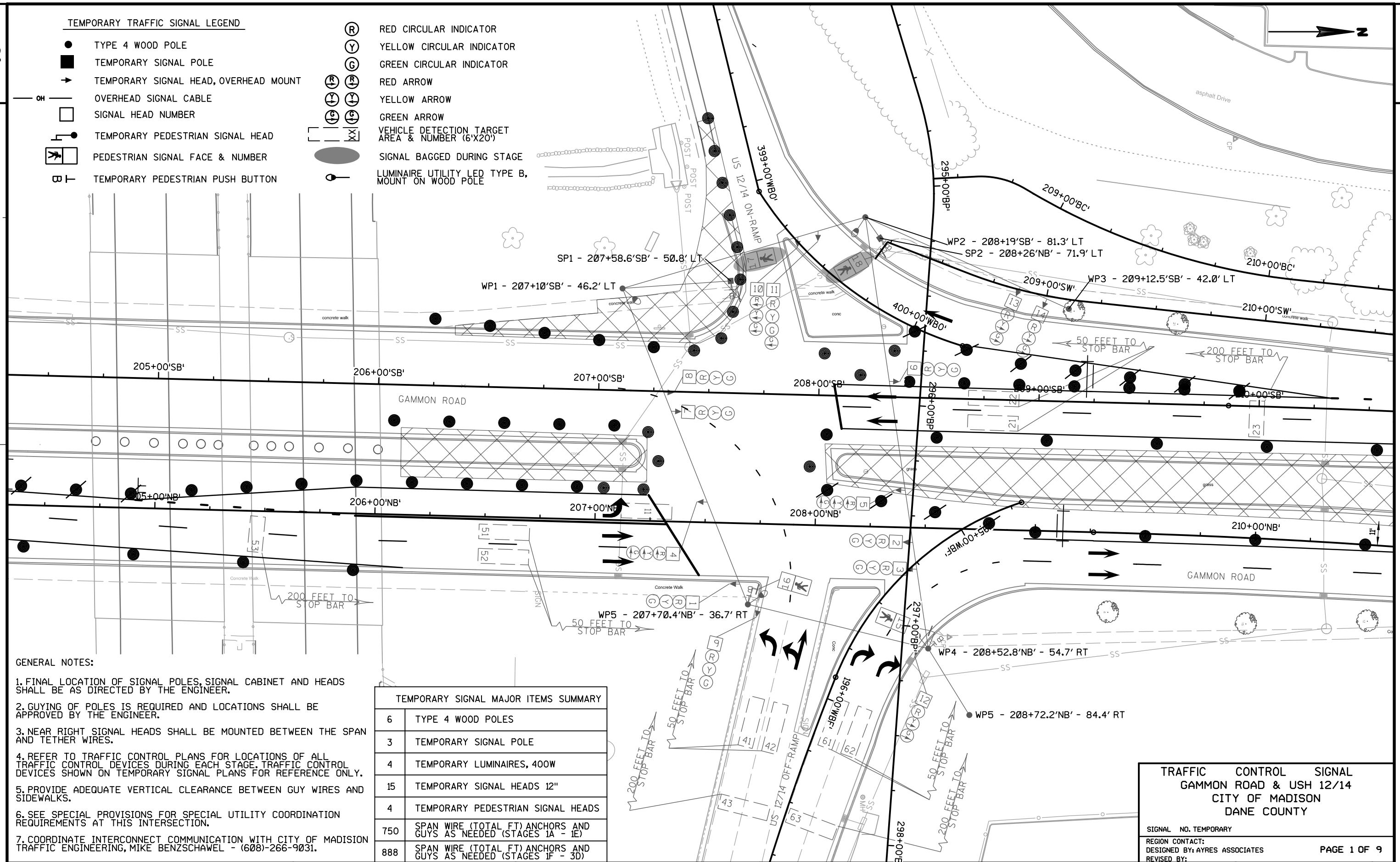
PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	LIGHTING AND SIGNAL PLAN	SCALE, FEET 0 20 40	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\023607_LP-SP_Bike Path.dgn PLOT BY : kk226 PLOT DATE : 10/15/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

TEMPORARY TRAFFIC SIGNAL LEGEND

- TYPE 4 WOOD POLE
- TEMPORARY SIGNAL POLE
- TEMPORARY SIGNAL HEAD, OVERHEAD MOUNT
- OH — OVERHEAD SIGNAL CABLE
- SIGNAL HEAD NUMBER
- TEMPORARY PEDESTRIAN SIGNAL HEAD
- PEDESTRIAN SIGNAL FACE & NUMBER
- TEMPORARY PEDESTRIAN PUSH BUTTON
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- VEHICLE DETECTION TARGET AREA & NUMBER (6'X20')
- SIGNAL BAGGED DURING STAGE
- LUMINAIRE UTILITY LED TYPE B, MOUNT ON WOOD POLE



GENERAL NOTES:

1. FINAL LOCATION OF SIGNAL POLES, SIGNAL CABINET AND HEADS SHALL BE AS DIRECTED BY THE ENGINEER.
2. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
3. NEAR RIGHT SIGNAL HEADS SHALL BE MOUNTED BETWEEN THE SPAN AND TETHER WIRES.
4. REFER TO TRAFFIC CONTROL PLANS FOR LOCATIONS OF ALL TRAFFIC CONTROL DEVICES DURING EACH STAGE. TRAFFIC CONTROL DEVICES SHOWN ON TEMPORARY SIGNAL PLANS FOR REFERENCE ONLY.
5. PROVIDE ADEQUATE VERTICAL CLEARANCE BETWEEN GUY WIRES AND SIDEWALKS.
6. SEE SPECIAL PROVISIONS FOR SPECIAL UTILITY COORDINATION REQUIREMENTS AT THIS INTERSECTION.
7. COORDINATE INTERCONNECT COMMUNICATION WITH CITY OF MADISON TRAFFIC ENGINEERING, MIKE BENZSCHAWEL - (608)-266-9031.

TEMPORARY SIGNAL MAJOR ITEMS SUMMARY	
6	TYPE 4 WOOD POLES
3	TEMPORARY SIGNAL POLE
4	TEMPORARY LUMINAIRES, 400W
15	TEMPORARY SIGNAL HEADS 12"
4	TEMPORARY PEDESTRIAN SIGNAL HEADS
750	SPAN WIRE (TOTAL FT) ANCHORS AND GUYS AS NEEDED (STAGES 1A - 1E)
888	SPAN WIRE (TOTAL FT) ANCHORS AND GUYS AS NEEDED (STAGES 1F - 3D)

TRAFFIC CONTROL SIGNAL
GAMMON ROAD & USH 12/14
CITY OF MADISON
DANE COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

PAGE 1 OF 9

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TEMPORARY SIGNAL PLANS - STAGE 1A	SHEET	E

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024101_ST_USH1214.dgn
PLOT BY : Mot1A PLOT DATE : 10/7/2019 PLOT SCALE : 1:40

2

N

WB ON RAMP

US 12/14 ON-RAMP

asphalt Drive

GAMMON ROAD

GAMMON RD

205+00'SB'

206+00'SB'

207+00'SB'

208+00'SB'

209+00'SB'

210+00'SB'

205+00'NB'

206+00'NB'

207+00'NB'

208+00'NB'

210+00'NB'

399+00'WBO'

295+00'BP'

209+00'BC'

210+00'BC'

209+00'SW'

210+00'SW'

400+00'WBO'

296+00'BP'

195+00'WBF'

297+00'BP'

196+00'WBF'

298+00'BP'

US 12/14 OFF-RAMP

50 FEET TO STOP BAR

200 FEET TO STOP BAR

concrete walk

Concrete Walk

conc

POST

SS

SIGN

TRAFFIC CONTROL SIGNAL
GAMMON ROAD & USH 12/14
CITY OF MADISON
DANE COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

PAGE 2 OF 9

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TEMPORARY SIGNAL PLANS - STAGES 1B, 1C, 1D, & 1E	SHEET E

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024102_ST_USH1214.dgn PLOT BY : Mot1A PLOT DATE : 10/7/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

2

N

GAMMON ROAD

205+00'SB'

206+00'SB'

207+00'SB'

208+00'SB'

209+00'SB'

210+00'SB'

205+00'NB'

206+00'NB'

207+00'NB'

208+00'NB'

210+00'NB'

399+00'WBO'

400+00'WBO'

195+00'WBF'

185+00'WBF'

295+00'BP'

296+00'BP'

297+00'BP'

298+00'BP'

209+00'BC'

210+00'BC'

209+00'SW'

210+00'SW'

US 12/14 ON-RAMP

US 12/14 OFF-RAMP

SP1 - 207+58.6'SB' - 50.8' LT

WP1 - 207+10'SB' - 46.2' LT

WP2 - 208+19'SB' - 81.3' LT

SP2 - 208+26'NB' - 71.9' LT

WP3 - 209+12.5'SB' - 42.0' LT

WP4 - 208+72.2'NB' - 84.4' RT

WP5 - 207+15.1'NB' - 49.8' RT

50 FEET TO STOP BAR

200 FEET TO STOP BAR

SIGN

POST

asphalt Drive

concrete walk

Concrete Walk

conc

SS

GENERAL NOTES:

1. CONTRACTOR SHALL MOVE WOOD POLES AND SPAN WIRE.

TRAFFIC CONTROL SIGNAL
GAMMON ROAD & USH 12/14
CITY OF MADISON
DANE COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

PAGE 3 OF 9

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TEMPORARY SIGNAL PLANS - STAGE 1F	SHEET	E

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024103_ST_USH1214.dgn PLOT BY : Mo1A PLOT DATE : 10/7/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

2

N

GAMMON ROAD

205+00'SB'

206+00'SB'

207+00'SB'

208+00'SB'

209+00'SB'

210+00'SB'

205+00'NB'

206+00'NB'

207+00'NB'

208+00'NB'

210+00'NB'

GAMMON ROAD

US 12/14 ON-RAMP

US 12/14 OFF-RAMP

399+00'WBO'

400+00'WBO'

295+00'BP'

296+00'BP'

195+00'WBF'

196+00'BP'

297+00'BP'

298+00'BP'

209+00'BC'

210+00'BC'

209+00'SW'

210+00'SW'

SP1 - 207+58.6'SB' - 50.8' LT

WP1 - 207+10'SB' - 46.2' LT

WP2 - 208+19'SB' - 81.3' LT

SP2 - 208+26'NB' - 71.9' LT

WP3 - 209+12.5'SB' - 42.0' LT

SP3 - 206+53.9'NB' - 30.5' RT

WP5 - 207+15.1'NB' - 49.8' RT

WP4 - 208+72.2'NB' - 84.4' RT

50 FEET TO STOP BAR

200 FEET TO STOP BAR

GENERAL NOTES:

1. CONTRACTOR SHALL ADD WOOD POST ON SOUTH APPROACH

TRAFFIC CONTROL SIGNAL
GAMMON ROAD & USH 12/14
CITY OF MADISON
DANE COUNTY

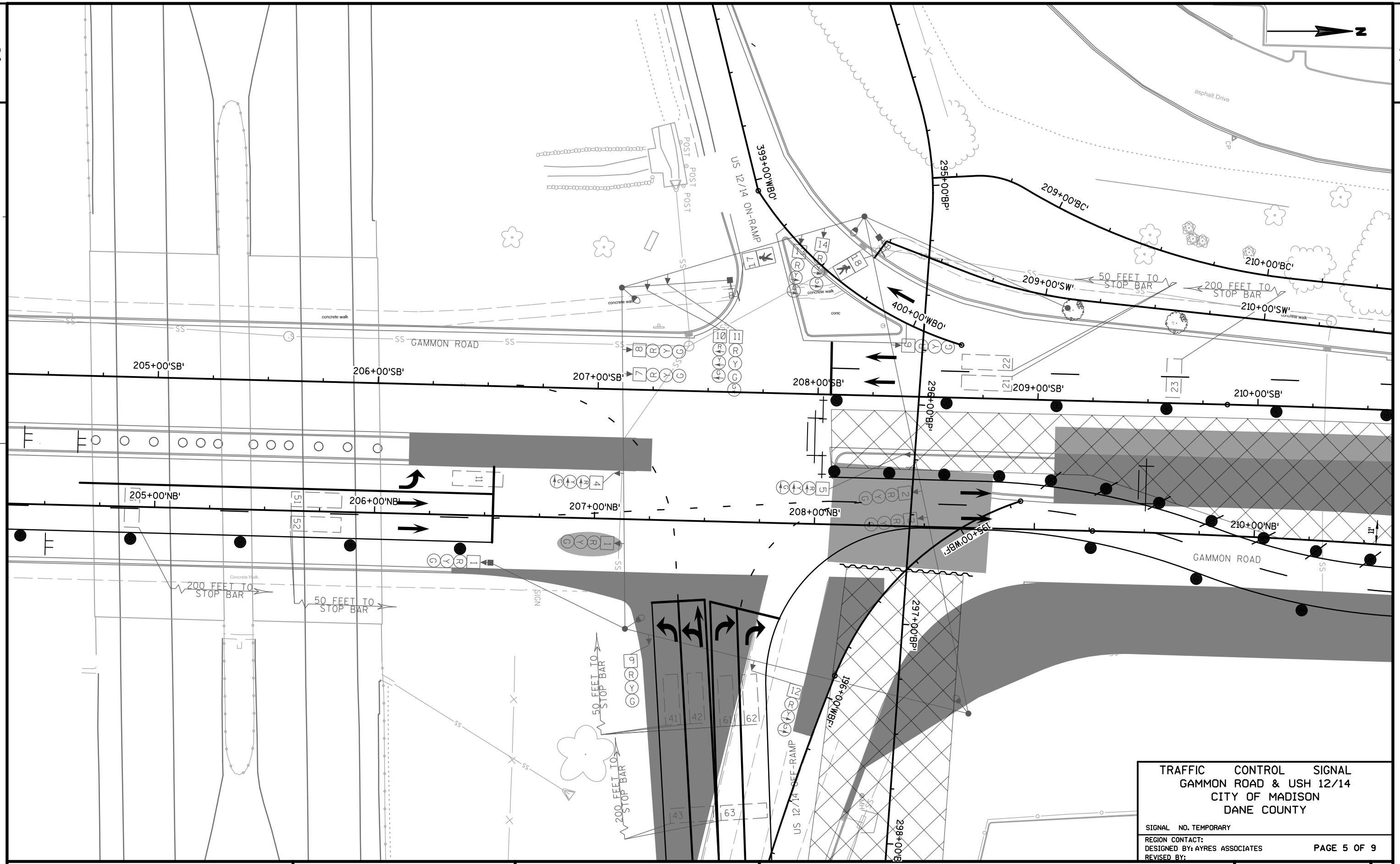
SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

PAGE 4 OF 9

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TEMPORARY SIGNAL PLANS - STAGES 2A, 2B, 2C, & 2D	SHEET	E

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024104_ST_USH1214.dgn
PLOT BY : Mot1A
PLOT DATE : 10/7/2019
PLOT SCALE : 1:40
WISDOT/CADDS SHEET 42



TRAFFIC CONTROL SIGNAL
GAMMON ROAD & USH 12/14
CITY OF MADISON
DANE COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

PAGE 5 OF 9

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TEMPORARY SIGNAL PLANS - STAGE 3A	SHEET	E

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024105_ST_USH1214.dgn PLOT BY : Mot1A PLOT DATE : 10/7/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

2

N

GAMMON ROAD

US 12/14 ON-RAMP

US 12/14 OFF-RAMP

205+00'SB'
206+00'SB'
207+00'SB'
208+00'SB'
209+00'SB'
210+00'SB'

205+00'NB'
206+00'NB'
207+00'NB'
208+00'NB'
210+00'NB'

399+00'WBO'
400+00'WBO'
209+00'BC'
210+00'BC'
209+00'SW'
210+00'SW'
295+00'BP'
296+00'BP'
297+00'BP'
298+00'BP'
195+00'WBF'
196+00'WBF'

50 FEET TO STOP BAR
200 FEET TO STOP BAR

asphalt Drive
concrete walk
Concrete Walk
grass
conc
POST
SIGN

TRAFFIC CONTROL SIGNAL
GAMMON ROAD & USH 12/14
CITY OF MADISON
DANE COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

PAGE 6 OF 9

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TEMPORARY SIGNAL PLANS - STAGE 3B	SHEET E

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024106_ST_USH1214.dgn PLOT BY : Mot1A PLOT DATE : 10/7/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

2

N

GAMMON ROAD

US 12/14 ON-RAMP

US 12/14 OFF-RAMP

205+00'SB'
206+00'SB'
207+00'SB'
208+00'SB'
209+00'SB'
210+00'SB'

205+00'NB'
206+00'NB'
207+00'NB'
208+00'NB'
210+00'NB'

399+00'WBO'
400+00'WBO'
295+00'BP'
209+00'BC'
210+00'BC'
209+00'SW'
210+00'SW'
196+00'WBF'
297+00'BP'
298+00'BP'

50 FEET TO STOP BAR
200 FEET TO STOP BAR

concrete walk
asphalt Drive
grass
conc
SIGN

TRAFFIC CONTROL SIGNAL
GAMMON ROAD & USH 12/14
CITY OF MADISON
DANE COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

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PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TEMPORARY SIGNAL PLANS - STAGE 3C	SHEET	E

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024107_ST_USH1214.dgn

PLOT BY : Mo1A PLOT DATE : 10/7/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

2

N

GAMMON ROAD

US 12/14 ON-RAMP

US 12/14 OFF-RAMP

asphalt Drive

concrete walk

grass

conc

205+00'SB'
206+00'SB'
207+00'SB'
208+00'SB'
209+00'SB'
210+00'SB'

205+00'NB'
206+00'NB'
207+00'NB'
208+00'NB'
210+00'NB'

399+00'WBO'
295+00'BP'
209+00'BC'
210+00'BC'
209+00'SW'
210+00'SW'
400+00'WBO'
296+00'WBF'
195+00'WBF'
297+00'BP'
196+00'WBF'
298+00'BP'

200 FEET TO STOP BAR
50 FEET TO STOP BAR

TRAFFIC CONTROL SIGNAL
GAMMON ROAD & USH 12/14
CITY OF MADISON
DANE COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

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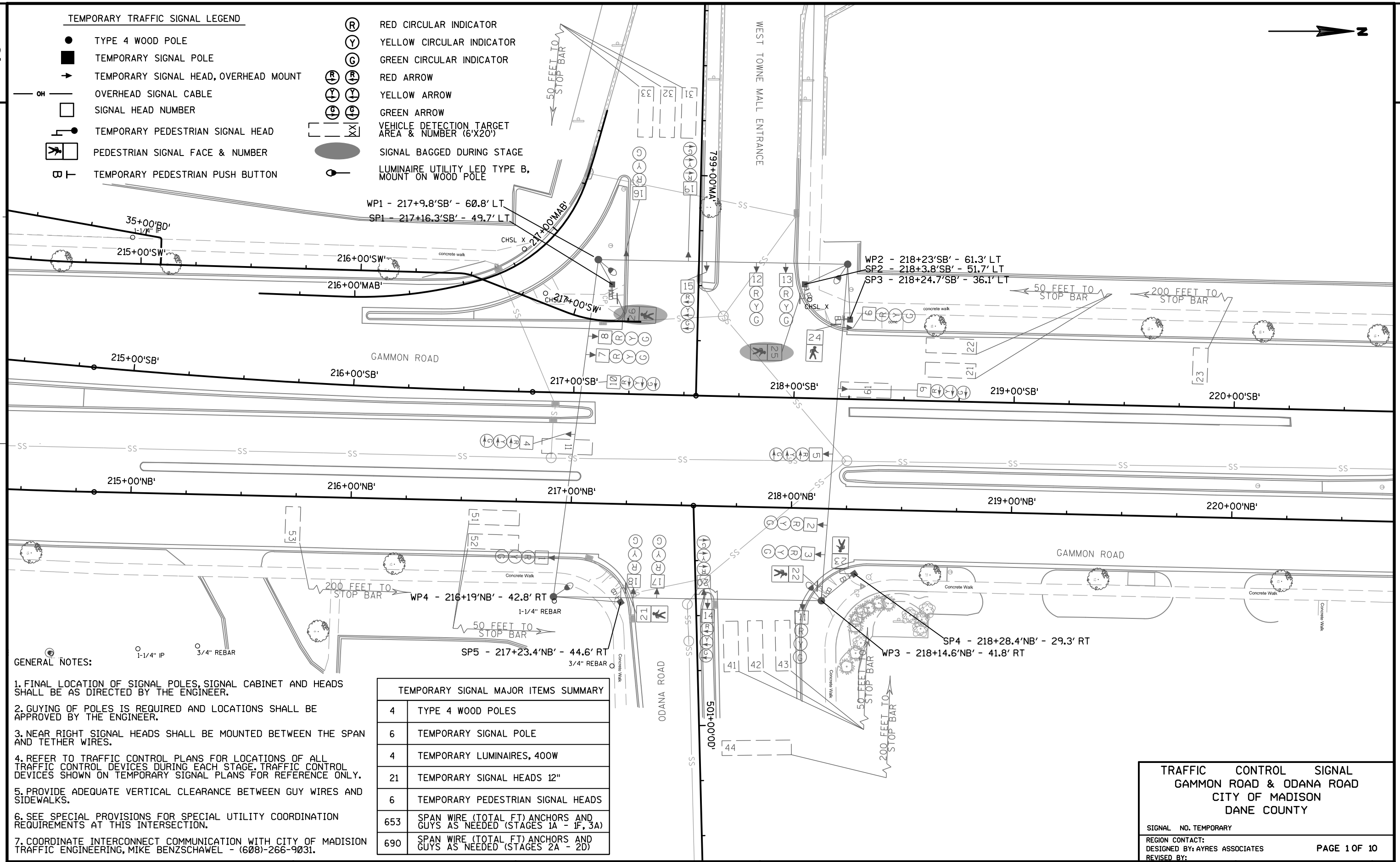
PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TEMPORARY SIGNAL PLANS - STAGES 3D & 3D SUB	SHEET E

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024108_ST_USH1214.dgn PLOT BY : Mot1A PLOT DATE : 10/7/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

TEMPORARY TRAFFIC SIGNAL LEGEND

- TYPE 4 WOOD POLE
- TEMPORARY SIGNAL POLE
- TEMPORARY SIGNAL HEAD, OVERHEAD MOUNT
- OH — OVERHEAD SIGNAL CABLE
- SIGNAL HEAD NUMBER
- TEMPORARY PEDESTRIAN SIGNAL HEAD
- PEDESTRIAN SIGNAL FACE & NUMBER
- TEMPORARY PEDESTRIAN PUSH BUTTON
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) (R) RED ARROW
- (Y) (Y) YELLOW ARROW
- (G) (G) GREEN ARROW
- VEHICLE DETECTION TARGET AREA & NUMBER (6'X20')
- SIGNAL BAGGED DURING STAGE
- LUMINAIRE UTILITY LED TYPE B, MOUNT ON WOOD POLE



GENERAL NOTES:

1. FINAL LOCATION OF SIGNAL POLES, SIGNAL CABINET AND HEADS SHALL BE AS DIRECTED BY THE ENGINEER.
2. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
3. NEAR RIGHT SIGNAL HEADS SHALL BE MOUNTED BETWEEN THE SPAN AND TETHER WIRES.
4. REFER TO TRAFFIC CONTROL PLANS FOR LOCATIONS OF ALL TRAFFIC CONTROL DEVICES DURING EACH STAGE. TRAFFIC CONTROL DEVICES SHOWN ON TEMPORARY SIGNAL PLANS FOR REFERENCE ONLY.
5. PROVIDE ADEQUATE VERTICAL CLEARANCE BETWEEN GUY WIRES AND SIDEWALKS.
6. SEE SPECIAL PROVISIONS FOR SPECIAL UTILITY COORDINATION REQUIREMENTS AT THIS INTERSECTION.
7. COORDINATE INTERCONNECT COMMUNICATION WITH CITY OF MADISION TRAFFIC ENGINEERING, MIKE BENZSCHAWEL - (608)-266-9031.

TEMPORARY SIGNAL MAJOR ITEMS SUMMARY	
4	TYPE 4 WOOD POLES
6	TEMPORARY SIGNAL POLE
4	TEMPORARY LUMINAIRES, 400W
21	TEMPORARY SIGNAL HEADS 12"
6	TEMPORARY PEDESTRIAN SIGNAL HEADS
653	SPAN WIRE (TOTAL FT) ANCHORS AND GUYS AS NEEDED (STAGES 1A - 1F, 3A)
690	SPAN WIRE (TOTAL FT) ANCHORS AND GUYS AS NEEDED (STAGES 2A - 2D)

TRAFFIC CONTROL SIGNAL
GAMMON ROAD & ODANA ROAD
CITY OF MADISON
DANE COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

PAGE 1 OF 10

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TEMPORARY SIGNAL PLANS - STAGE 1A	SHEET	E

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024109_ST_Odana.dgn PLOT BY : Mo1A PLOT DATE : 10/7/2019 PLOT SCALE : 1:40

2

N

WEST TOWNE MALL ENTRANCE

50 FEET TO STOP BAR

799+00'MA'

35+00'BD'
1-1/4" IP

215+00'SW'

216+00'SW'

concrete walk

CHSL X

217+00'MAB'

216+00'MAB'

217+00'SW'

CHSL X

215+00'SB'

216+00'SB'

217+00'SB'

218+00'SB'

219+00'SB'

220+00'SB'

50 FEET TO STOP BAR

200 FEET TO STOP BAR

GAMMON ROAD

215+00'NB'

216+00'NB'

217+00'NB'

218+00'NB'

219+00'NB'

220+00'NB'

GAMMON ROAD

Concrete Walk

200 FEET TO STOP BAR

1-1/4" REBAR

50 FEET TO STOP BAR

1" IP

1-1/4" IP

3/4" REBAR

3/4" REBAR

Concrete Walk

ODANA ROAD

50+10'OD'

Concrete Walk

50 FEET TO STOP BAR

200 FEET TO STOP BAR

Concrete Walk

Concrete Walk

Concrete Walk

TRAFFIC CONTROL SIGNAL
GAMMON ROAD & ODANA ROAD
CITY OF MADISON
DANE COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

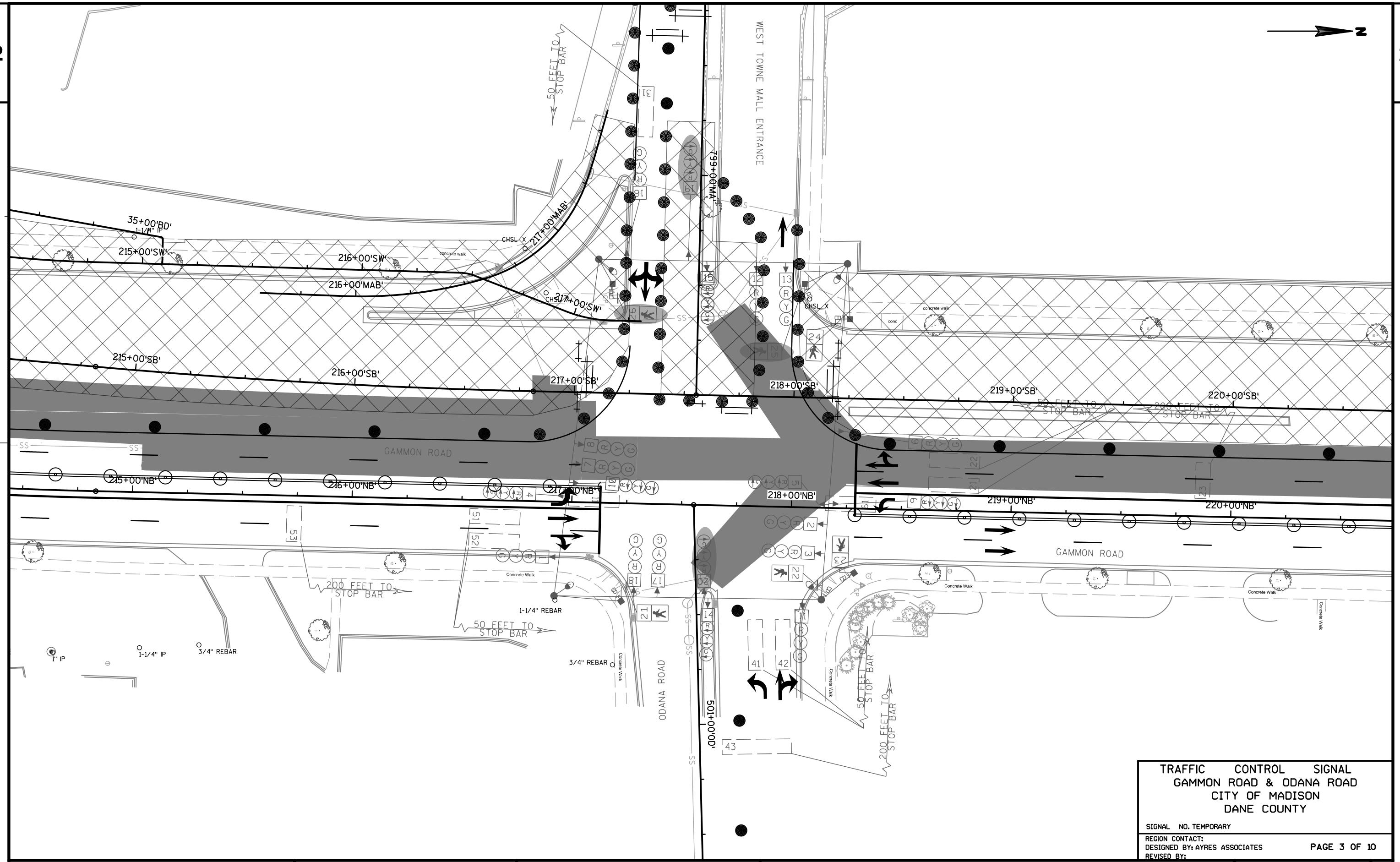
PAGE 2 OF 10

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TEMPORARY SIGNAL PLANS - STAGES 1B & 1C	SHEET	E

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024111_ST_Odana.dgn

PLOT BY : Mot1A PLOT DATE : 10/7/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42



TRAFFIC CONTROL SIGNAL
GAMMON ROAD & ODANA ROAD
CITY OF MADISON
DANE COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

PAGE 3 OF 10

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TEMPORARY SIGNAL PLANS - STAGE 1D	SHEET	E

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024112_ST_Odana.dgn PLOT BY : Mot1A PLOT DATE : 10/7/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

2

N

WEST TOWNE MALL ENTRANCE

799+00'MA'

50 FEET TO STOP BAR

35+00'BD'

215+00'SW'

216+00'SW'

216+00'MAB'

217+00'MAB'

217+00'SW'

215+00'SB'

216+00'SB'

217+00'SB'

218+00'SB'

219+00'SB'

220+00'SB'

200 FEET TO STOP BAR

GAMMON ROAD

215+00'NB'

216+00'NB'

217+00'NB'

218+00'NB'

219+00'NB'

220+00'NB'

Concrete Walk

1-1/4" REBAR

50 FEET TO STOP BAR

1" IP

1-1/4" IP

3/4" REBAR

3/4" REBAR

ODANA ROAD

50+00'OD'

TRAFFIC CONTROL SIGNAL
GAMMON ROAD & ODANA ROAD
CITY OF MADISON
DANE COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

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PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TEMPORARY SIGNAL PLANS - STAGE 1E	SHEET	E

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024113_ST_Odana.dgn

PLOT BY : Mot1A PLOT DATE : 10/7/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

N

50 FEET TO STOP BAR

WEST TOWNE MALL ENTRANCE

799+00'MA'

35+00'BD'
1-1/4" IP

215+00'SW'

216+00'SW'

concrete walk

CHSL X

217+00'MAB'

216+00'MAB'

217+00'SW'

CHSL X

50 FEET TO STOP BAR

200 FEET TO STOP BAR

concrete walk

GAMMON ROAD

215+00'SB'

216+00'SB'

217+00'SB'

218+00'SB'

219+00'SB'

220+00'SB'

215+00'NB'

216+00'NB'

217+00'NB'

218+00'NB'

219+00'NB'

220+00'NB'

GAMMON ROAD

Concrete Walk

Concrete Walk

Concrete Walk

200 FEET TO STOP BAR

1-1/4" REBAR

50 FEET TO STOP BAR

1" IP

1-1/4" IP

3/4" REBAR

3/4" REBAR

Concrete Walk

ODANA ROAD

501+00'OD'

Concrete Walk

50 FEET TO STOP BAR

200 FEET TO STOP BAR

TRAFFIC CONTROL SIGNAL
GAMMON ROAD & ODANA ROAD
CITY OF MADISON
DANE COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

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PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TEMPORARY SIGNAL PLANS - STAGE 1F	SHEET	E

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024114_ST_Odana.dgn

PLOT BY : Mot1A PLOT DATE : 10/7/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

N

WEST TOWNE MALL ENTRANCE

GAMMON ROAD

ODANA ROAD

50 FEET TO STOP BAR

200 FEET TO STOP BAR

concrete walk

Concrete Walk

WP1 - 217+9.8'SB' - 60.8' LT
SP1 - 217+16.3'SB' - 49.7' LT

WP2 - 218+23'SB' - 61.3' LT
SP2 - 218+3.8'SB' - 51.7' LT
SP3 - 218+24.7'SB' - 36.1' LT

WP4 - 216+19'NB' - 42.8' RT
SP5 - 217+23.4'NB' - 44.6' RT

SP6 - 218+12.8'NB' - 4.9' RT
SP4 - 218+28.4'NB' - 29.3' RT
WP3 - 218+14.6'NB' - 41.8' RT

35+00'BD'
215+00'SW'
216+00'SW'
216+00'MAB'
217+00'MAB'
217+00'SW'
799+00'MA'
215+00'SB'
216+00'SB'
217+00'SB'
218+00'SB'
219+00'SB'
220+00'SB'
215+00'NB'
216+00'NB'
217+00'NB'
218+00'NB'
219+00'NB'
220+00'NB'
501+00'DO'

CHSL X

1-1/4" IP
1" IP
3/4" REBAR
1-1/4" REBAR

GENERAL NOTES:

1. CONTRACTOR SHALL ADD WOOD POST ON EAST APPROACH

TRAFFIC CONTROL SIGNAL
GAMMON ROAD & ODANA ROAD
CITY OF MADISON
DANE COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

PAGE 6 OF 10

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TEMPORARY SIGNAL PLANS - STAGES 2A & 2B	SHEET	E

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024115_ST_Odana.dgn PLOT BY : MotIA PLOT DATE : 10/7/2019 PLOT SCALE : 1:40

2

N

WEST TOWNE MALL ENTRANCE

799+00'MA'

GAMMON ROAD

ODANA ROAD

501+00'OD'

35+00'BD'
1-1/4" IP

215+00'SW'

216+00'SW'

216+00'MAB'

CHSL X

217+00'MAB'

217+00'SW'

215+00'SB'

216+00'SB'

217+00'SB'

218+00'SB'

219+00'SB'

220+00'SB'

215+00'NB'

216+00'NB'

217+00'NB'

218+00'NB'

219+00'NB'

220+00'NB'

50 FEET TO STOP BAR

200 FEET TO STOP BAR

concrete walk

Concrete Walk

1-1/4" REBAR

3/4" REBAR

1" IP

1-1/4" IP

3/4" REBAR

TRAFFIC CONTROL SIGNAL
GAMMON ROAD & ODANA ROAD
CITY OF MADISON
DANE COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

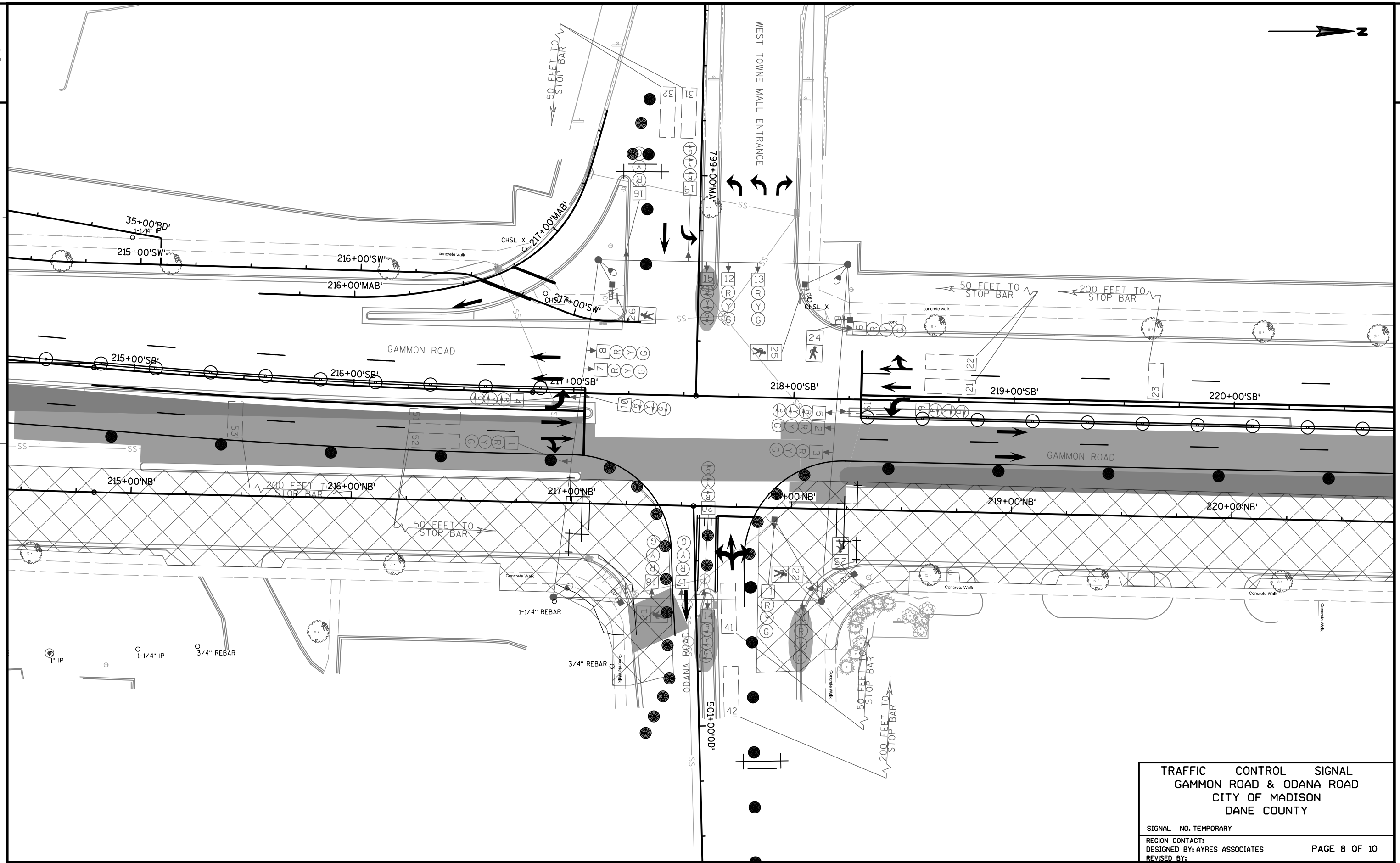
PAGE 7 OF 10

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TEMPORARY SIGNAL PLANS - STAGE 2C	SHEET	E

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024116_ST_Odana.dgn

PLOT BY : Mot1A PLOT DATE : 10/7/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42



TRAFFIC CONTROL SIGNAL
GAMMON ROAD & ODANA ROAD
CITY OF MADISON
DANE COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

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PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TEMPORARY SIGNAL PLANS - STAGE 2D	SHEET 123	E

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024117_ST_Odana.dgn PLOT BY : Mot1A PLOT DATE : 10/7/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

N

WEST TOWNE MALL ENTRANCE

GAMMON ROAD

ODANA ROAD

50 FEET TO STOP BAR

200 FEET TO STOP BAR

35+00'BD'
1-1/4" IP

215+00'SW'

216+00'SW'

216+00'MAB'

CHSL X

217+00'MAB'

217+00'SW'

799+00'MA'

215+00'SB'

216+00'SB'

217+00'SB'

218+00'SB'

219+00'SB'

220+00'SB'

215+00'NB'

216+00'NB'

217+00'NB'

218+00'NB'

219+00'NB'

220+00'NB'

501+00'

concrete walk

Concrete Walk

1" IP

1-1/4" IP

3/4" REBAR

1-1/4" REBAR

TRAFFIC CONTROL SIGNAL
GAMMON ROAD & ODANA ROAD
CITY OF MADISON
DANE COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

PAGE 9 OF 10

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TEMPORARY SIGNAL PLANS - STAGE 3A	SHEET 124	E

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024118_ST_Odana.dgn

PLOT BY : Mot1A PLOT DATE : 10/7/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

TEMPORARY TRAFFIC SIGNAL LEGEND

- TYPE 4 WOOD POLE
- TEMPORARY SIGNAL POLE
- TEMPORARY SIGNAL HEAD, OVERHEAD MOUNT
- OH — OVERHEAD SIGNAL CABLE
- SIGNAL HEAD NUMBER
- TEMPORARY PEDESTRIAN SIGNAL HEAD
- PEDESTRIAN SIGNAL FACE & NUMBER
- TEMPORARY PEDESTRIAN PUSH BUTTON
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- VEHICLE DETECTION TARGET AREA & NUMBER (6'X20')
- SIGNAL BAGGED DURING STAGE
- LUMINAIRE UTILITY LED TYPE B, MOUNT ON WOOD POLE

N

WEST TOWNE MALL ENTRANCE

GAMMON ROAD

GAMMON PLACE

899+00'WB'

601+00'SB'

50 FEET TO STOP BAR

200 FEET TO STOP BAR

3/4" REBAR

7/8" REBAR

1-1/4" REBAR

CHSL X

SB1 - 224+86.4'SB' - 52.5' LT

WP1 - 224+61'SB' - 32.6' LT

WP2 - 225+64.1'SB' - 63.1' LT

SB2 - 225+67.8'SB' - 55.1' LT

SB3 - 225+83.6'SB' - 43.2' LT

WP4 - 224+60'NB' - 31.5' RT

SB6 - 224+83.9'NB' - 29.5' RT

WP3 - 225+60.7'NB' - 30.1' RT

SB4 - 225+53.2'NB' - 32.1' RT

SB5 - 225+41.7'NB' - 42.2' RT

223+00'SB' 224+00'SB' 225+00'SB' 226+00'SB' 227+00'SB' 228+00'SB'

223+00'NB' 224+00'NB' 225+00'NB' 226+00'NB' 227+00'NB' 228+00'NB'

concrete walk · Concrete Walk · grass

GENERAL NOTES:

1. FINAL LOCATION OF SIGNAL POLES, SIGNAL CABINET AND HEADS SHALL BE AS DIRECTED BY THE ENGINEER.
2. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
3. NEAR RIGHT SIGNAL HEADS SHALL BE MOUNTED BETWEEN THE SPAN AND TETHER WIRES.
4. REFER TO TRAFFIC CONTROL PLANS FOR LOCATIONS OF ALL TRAFFIC CONTROL DEVICES DURING EACH STAGE. TRAFFIC CONTROL DEVICES SHOWN ON TEMPORARY SIGNAL PLANS FOR REFERENCE ONLY.
5. PROVIDE ADEQUATE VERTICAL CLEARANCE BETWEEN GUY WIRES AND SIDEWALKS.
6. SEE SPECIAL PROVISIONS FOR SPECIAL UTILITY COORDINATION REQUIREMENTS AT THIS INTERSECTION.
7. COORDINATE INTERCONNECT COMMUNICATION WITH CITY OF MADISON TRAFFIC ENGINEERING, MIKE BENZSCHAWEL - (608)-266-9031.

TEMPORARY SIGNAL MAJOR ITEMS SUMMARY	
4	TYPE 4 WOOD POLES
7	TEMPORARY SIGNAL POLE
4	TEMPORARY LUMINAIRES, 400W
21	TEMPORARY SIGNAL HEADS 12"
6	TEMPORARY PEDESTRIAN SIGNAL HEADS
578	SPAN WIRE (TOTAL FT) ANCHORS AND GUYS AS NEEDED (STAGES 1A - 1F, 3A)
608	SPAN WIRE (TOTAL FT) ANCHORS AND GUYS AS NEEDED (STAGES 2A - 2D)

TRAFFIC CONTROL SIGNAL
GAMMON ROAD & GAMMON PLACE
CITY OF MADISON
DANE COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

PAGE 1 OF 8

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TEMPORARY SIGNAL PLANS - STAGES 1A & 1F	SHEET	E

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024120_ST_GamP1.dgn PLOT BY : Mot1A PLOT DATE : 10/7/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

2

N

WEST TOWNE MALL ENTRANCE

50 FEET TO STOP BAR

3/4" REBAR

CHSL X

concrete walk

GAMMON ROAD

GAMMON PLACE

Concrete Walk

7/8" REBAR

1-1/4" REBAR

200 FEET TO STOP BAR

50 FEET TO STOP BAR

223+00'SB'

224+00'SB'

225+00'SB'

226+00'SB'

227+00'SB'

228+00'SB'

223+00'NB'

224+00'NB'

225+00'NB'

226+00'NB'

227+00'NB'

228+00'NB'

699+00'WB

601+00'GP

TRAFFIC CONTROL SIGNAL
GAMMON ROAD & GAMMON PLACE
CITY OF MADISON
DANE COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

PAGE 2 OF 8

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TEMPORARY SIGNAL PLANS - STAGES 1B & 1E	SHEET	E

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024121_ST_GamP1.dgn

PLOT BY : Mot1A PLOT DATE : 10/7/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

N

WEST TOWNE MALL ENTRANCE

GAMMON ROAD

GAMMON PLACE

50 FEET TO STOP BAR

200 FEET TO STOP BAR

3/4" REBAR

7/8" REBAR

1-1/4" REBAR

CHSL X

concrete walk

Concrete Walk

223+00'SB'

224+00'SB'

225+00'SB'

226+00'SB'

227+00'SB'

228+00'SB'

223+00'NB'

224+00'NB'

225+00'NB'

226+00'NB'

227+00'NB'

228+00'NB'

899+00'WB

601+00'GP

TRAFFIC CONTROL SIGNAL
GAMMON ROAD & GAMMON PLACE
CITY OF MADISON
DANE COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

PAGE 3 OF 8

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TEMPORARY SIGNAL PLANS - STAGE 1C	SHEET	E

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024122_ST_GamP1.dgn

PLOT BY : Mot1A PLOT DATE : 10/7/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

N

WEST TOWNE MALL ENTRANCE

GAMMON ROAD

GAMMON PLACE

50 FEET TO STOP BAR

200 FEET TO STOP BAR

3/4" REBAR

7/8" REBAR

1-1/4" REBAR

CHSL X

concrete walk

Concrete Walk

699+00'NB'

699+00'SB'

610+00'SB'

223+00'SB'

224+00'SB'

225+00'SB'

226+00'SB'

227+00'SB'

228+00'SB'

223+00'NB'

224+00'NB'

225+00'NB'

226+00'NB'

227+00'NB'

228+00'NB'

TRAFFIC CONTROL SIGNAL
GAMMON ROAD & GAMMON PLACE
CITY OF MADISON
DANE COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

PAGE 4 OF 8

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TEMPORARY SIGNAL PLANS - STAGE 1D	SHEET	E

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024123_ST_GamP1.dgn

PLOT BY : Mot1A PLOT DATE : 10/7/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

N

WEST TOWNE MALL ENTRANCE

GAMMON ROAD

GAMMON PLACE

50 FEET TO STOP BAR

200 FEET TO STOP BAR

3/4" REBAR

1-1/4" REBAR

7/8" REBAR

concrete walk

Concrete Walk

SB1 - 224+86.4'SB' - 52.5' LT

WP1 - 224+61'SB' - 32.6' LT

WP2 - 225+64.1'SB' - 63.1' LT

SB2 - 225+67.8'SB' - 55.1' LT

SB3 - 225+83.6'SB' - 43.2' LT

WP4 - 224+60'NB' - 31.5' RT

SB6 - 224+83.9'NB' - 29.5' RT

SB7 - 225+44'NB' - 5.3' RT

WP3 - 225+60.7'NB' - 30.1' RT

SB4 - 225+53.2'NB' - 32.1' RT

SB5 - 225+41.7'NB' - 42.2' RT

223+00'SB'

224+00'SB'

225+00'SB'

226+00'SB'

227+00'SB'

228+00'SB'

223+00'NB'

224+00'NB'

225+00'NB'

226+00'NB'

227+00'NB'

228+00'NB'

GENERAL NOTES:

1. CONTRACTOR SHALL ADD WOOD POST ON EAST APPROACH

TRAFFIC CONTROL SIGNAL
GAMMON ROAD & GAMMON PLACE
CITY OF MADISON
DANE COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

PAGE 5 OF 8

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TEMPORARY SIGNAL PLANS - STAGES 2A, 2C & 2D	SHEET 129	E

2

2

N

WEST TOWNE MALL ENTRANCE

GAMMON ROAD

GAMMON PLACE

50 FEET TO STOP BAR

200 FEET TO STOP BAR

50 FEET TO STOP BAR

200 FEET TO STOP BAR

3/4" REBAR

CHSL X

7/8" REBAR

1-1/4" REBAR

3/4" REBAR

concrete walk

Concrete Walk

223+00'SB'

224+00'SB'

225+00'SB'

226+00'SB'

227+00'SB'

228+00'SB'

223+00'NB'

224+00'NB'

225+00'NB'

226+00'NB'

227+00'NB'

228+00'NB'

699+00'NB'

601+00'GP'

TRAFFIC CONTROL SIGNAL
GAMMON ROAD & GAMMON PLACE
CITY OF MADISON
DANE COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

PAGE 6 OF 8

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TEMPORARY SIGNAL PLANS - STAGE 2B	SHEET	E

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024125_ST_GamPl.dgn

PLOT BY : Mot1A PLOT DATE : 10/7/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

2

N

WEST TOWNE MALL ENTRANCE

GAMMON ROAD

GAMMON PLACE

50 FEET TO STOP BAR

200 FEET TO STOP BAR

concrete walk

Concrete Walk

3/4" REBAR

7/8" REBAR

1-1/4" REBAR

CHSL X

223+00'SB'

224+00'SB'

225+00'SB'

226+00'SB'

227+00'SB'

228+00'SB'

223+00'NB'

224+00'NB'

225+00'NB'

226+00'NB'

227+00'NB'

228+00'NB'

899+00'WB

601+00'SB

TRAFFIC CONTROL SIGNAL
GAMMON ROAD & GAMMON PLACE
CITY OF MADISON
DANE COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

PAGE 7 OF 8

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TEMPORARY SIGNAL PLANS - STAGE 3A	SHEET	E

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024126_ST_GamP1.dgn

PLOT BY : Mot1A PLOT DATE : 10/7/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

SEQUENCE OF OPERATION

RING 1

		HEAD NUMBERS	Ø1 R/W	Ø1 CLEAR TO		Ø2 R/W	Ø2 CLEAR TO		Ø3 R/W	Ø3 CLEAR TO		Ø4 R/W	Ø4 CLEAR TO		FLASH
	Ø1	4, 5	G	Y	R	R	R	R				R	R	R	R
	Ø2	6, 7, 8	R	R	R	G	Y	R				R	R	R	R
	Ø3														
****	Ø4	9, 10, 11	C	C	C	C	C	C				A	B	C	C
	Ø5	1, 2, 3	R	R	R	R	R	R				R	R	R	R
	Ø6	12, 13, 14	R	R	R	R	R	R				-	Y	R	R
	Ø7														
	Ø8														
***	Ø2P	17, 18	D	D	D	*	D	D				D	D	D	-
	Ø4P														
***	Ø5P	15, 16	D	D	D	D	D	D				D	D	D	-
	ØLA	12, 13, 14	-	-	-	-	-	-				G	-	-	-

RING 2

		HEAD NUMBERS	Ø5 R/W	Ø5 CLEAR TO		Ø6 R/W	Ø6 CLEAR TO		Ø7 R/W	Ø7 CLEAR TO		Ø8 R/W	Ø8 CLEAR TO	
	Ø1	4, 5	R	R	R	R	R	R						
	Ø2	6, 7, 8	R	R	R	R	R	R						
	Ø3													
****	Ø4	9, 10, 11	C	C	C	C	C	C						
	Ø5	1, 2, 3	G	Y	R	R	R	R						
	Ø6	12, 13, 14	R	R	R	G	Y	R						
	Ø7													
	Ø8													
***	Ø2P	17, 18	D	D	D	D	D	D						
	Ø4P													
***	Ø5P	15, 16	*	D	D	D	D	D						
	ØLA	12, 13, 14	-	-	-	-	-	-						

BARRIER

**** A = G/G, B = Y/Y, C = R/R

*** Ø2P NOT ACTIVE DURING STAGES 1A - 1F, Ø5P NOT ACTIVE DURING STAGES 2A - 3D

* WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	5, 6	2, 4
2	5, 6	1, 4
3		
4	6	1, 2, 5
5	1, 2	4, 6
6	1, 2, 4	5
7		
8		

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
11	1	X			1	1				6X20	VIDEO
21	2	X			2	2				6X20	VIDEO
22	2	X			2	2				6X20	VIDEO
23	2	X			2	2				6X20	VIDEO
41	3	X			4	4				6X20	VIDEO
42	3	X			4	4				6X20	VIDEO
43	3	X			4	4				6X20	VIDEO
51	4	X			5	5				6X20	VIDEO
52	4	X			5	5				6X20	VIDEO
53	4	X			5	5				6X20	VIDEO
61	5	X			6	6				6X20	VIDEO
62	5	X			6	6				6X20	VIDEO
63	5	X			6	6				6X20	VIDEO

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				X
2	X	5	MIN.	X
3				
4				X
5	X	2	MIN.	X
6				X
7				
8				

OVERLAPS

O.L. "A" =04
O.L. "B" =
O.L. "C" =
O.L. "D" =

Z

TYPE OF INTERCONNECT COMMUNICATION	
NONE	X
TBC	
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
FIBER OPTIC	
RADIO	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM *:	SS- -

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
3M	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)

TRAFFIC CONTROL SIGNAL
GAMMON ROAD & USH 12/14
CITY OF MADISON
DANE COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

PAGE 9 OF 9

PROJECT NO: 5992-10-32 | HWY: GAMMON RD | COUNTY: DANE | SEQUENCE OF OPERATIONS | SHEET | E

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024128_ST_USH1214 Seq0p.dgn PLOT BY : Mot1A PLOT DATE : 10/7/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

SEQUENCE OF OPERATION

		Ø1							Ø2						
			CLEAR TO							CLEAR TO					
	HEAD NUMBERS	R/W	**						R/W	**					
Ø1	4, 5	G	Y	R					R	R	R				
Ø2	6, 7, 8	R	R	R					G	Y	R				
**** Ø3	16, 17, 18, 19, 20	C	C	C					C	C	C				
**** Ø4	11, 12, 13, 14, 15	C	C	C					C	C	C				
RING 1 Ø5	1, 2, 3	R	R	R					R	R	R				
Ø6	9, 10	R	R	R					R	R	R				
Ø7															
Ø8															
*** Ø2P	25, 26	D	D	D					*	D	D				
Ø4P	23, 24	D	D	D					D	D	D				
Ø5P	21, 22	D	D	D					D	D	D				
Ø8P															

	Ø3							Ø4							FLASH
		CLEAR TO							CLEAR TO						
	R/W	**						R/W	**						
Ø1	R	R	R					R	R	R					R
Ø2	R	R	R					R	R	R					R
Ø3	A	B	C					C	C	C					C
Ø4	C	C	C					A	B	C					C
Ø5	R	R	R					R	R	R					R
Ø6	R	R	R					R	R	R					R
Ø7															
Ø8															
Ø2P	D	D	D					D	D	D					
Ø4P	D	D	D					*	D	D					
Ø5P	D	D	D					D	D	D					
Ø8P															

NOT USED

NOT USED

		Ø5							Ø6						
			CLEAR TO							CLEAR TO					
	HEAD NUMBERS	R/W	**						R/W	**					
Ø1	4, 5	R	R	R					R	R	R				
Ø2	6, 7, 8	R	R	R					R	R	R				
**** Ø3	16, 17, 18, 19, 20	C	C	C					C	C	C				
**** Ø4	11, 12, 13, 14, 15	C	C	C					C	C	C				
RING 2 Ø5	1, 2, 3	G	Y	R					R	R	R				
Ø6	9, 10	R	R	R					G	Y	R				
Ø7															
Ø8															
*** Ø2P	25, 26	D	D	D					D	D	D				
Ø4P	23, 24	D	D	D					D	D	D				
Ø5P	21, 22	*	D	D					D	D	D				
Ø8P															

	Ø7							Ø8						
		CLEAR TO							CLEAR TO					
	R/W	**						R/W	**					

BARRIER

**** A = G/G, B = Y/Y, C = R/R

*** Ø2P NOT ACTIVE DURING STAGES 1A - 1E

* WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	5, 6	2, 3, 4
2	5, 6	1, 3, 4
3		1, 2, 4, 5, 6
4		1, 2, 3, 5, 6
5	1, 2	3, 4, 6
6	1, 2	3, 4, 5
7		
8		

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
11	1	X			1	1				6X20	VIDEO
21	2	X			2	2				6X20	VIDEO
22	2	X			2	2				6X20	VIDEO
23	2	X			2	2				6X20	VIDEO
31	3	X			3	3				6X20	VIDEO
32	3	X			3	3				6X20	VIDEO
33	3	X			3	3				6X20	VIDEO
41	4	X			4	4				6X20	VIDEO
42	4	X			4	4				6X20	VIDEO
43	4	X			4	4				6X20	VIDEO
44	4	X			4	4				6X20	VIDEO
51	5	X			5	5				6X20	VIDEO
52	5	X			5	5				6X20	VIDEO
53	5	X			5	5				6X20	VIDEO
61	6	X			6	6				6X20	VIDEO

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				X
2	X	5	MIN.	X
3				X
4				X
5	X	2	MIN.	X
6				X
7				
8				

OVERLAPS

O.L. "A" =
O.L. "B" =
O.L. "C" =
O.L. "D" =

N

TYPE OF INTERCONNECT COMMUNICATION	
NONE	X
TBC	
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
FIBER OPTIC	
RADIO	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM *:	SS- -

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
3M	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)

TRAFFIC CONTROL SIGNAL
GAMMON ROAD & ODANA ROAD
CITY OF MADISON
DANE COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

PAGE 10 OF 10

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	SEQUENCE OF OPERATIONS	SHEET	E

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024129_ST_Odana SeqOp.dgn PLOT BY : Mot1A PLOT DATE : 10/7/2019 PLOT SCALE : 1:40

2

SEQUENCE OF OPERATION

		HEAD NUMBERS	Ø1 R/W	Ø1 CLEAR TO **	Ø2 R/W	Ø2 CLEAR TO **	Ø3 R/W	Ø3 CLEAR TO **	Ø4 R/W	Ø4 CLEAR TO **	FLASH
*****	Ø1	4, 5	G	Y R	R	R R	R	R R	R	R R	R
	Ø2	6, 7, 8	R	R R	G	Y R	R	R R	R	R R	R
****	Ø3	16, 17, 18, 19, 20	C	C C	C	C C	A	B C	C	C C	C
***** ****	Ø4	11, 12, 13, 14, 15	C	C C	C	C C	C	C C	A	B C	C
RING 1	Ø5	1, 2, 3	R	R R	R	R R	R	R R	R	R R	R
	Ø6	9, 10	R	R R	R	R R	R	R R	R	R R	R
	Ø7										
	Ø8										
***	Ø2P	25, 26	D	D D	*	D D	D	D D	D	D D	
	Ø4P	23, 24	D	D D	D	D D	D	D D	*	D D	
***	Ø5P	21, 22	D	D D	D	D D	D	D D	D	D D	
	Ø8P										

NOT USED

NOT USED

		HEAD NUMBERS	Ø5 R/W	Ø5 CLEAR TO **	Ø6 R/W	Ø6 CLEAR TO **	Ø7 R/W	Ø7 CLEAR TO **	Ø8 R/W	Ø8 CLEAR TO **
*****	Ø1	4, 5	R	R R	R	R R				
	Ø2	6, 7, 8	R	R R	R	R R				
****	Ø3	16, 17, 18, 19, 20	C	C C	C	C C				
***** ****	Ø4	11, 12, 13, 14, 15	C	C C	C	C C				
RING 2	Ø5	1, 2, 3	G	Y R	R	R R				
	Ø6	9, 10	R	R R	G	Y R				
	Ø7									
	Ø8									
***	Ø2P	25, 26	D	D D	D	D D				
	Ø4P	23, 24	D	D D	D	D D				
***	Ø5P	21, 22	*	D D	D	D D				
	Ø8P									

BARRIER

***** Ø1 NOT ACTIVE DURING STAGE 3A, Ø4 NOT ACTIVE DURING STAGE 2B

**** A = G/G, B = Y/Y, C = R/R

*** Ø2P NOT ACTIVE DURING STAGES 1A - 1F, Ø5P NOT ACTIVE DURING STAGE 2B

* WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	5, 6	2, 3, 4
2	5, 6	1, 3, 4
3		1, 2, 4, 5, 6
4		1, 2, 3, 5, 6
5	1, 2	3, 4, 6
6	1, 2	3, 4, 5
7		
8		

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
11	1	X			1	1				6X20	VIDEO
21	2	X			2	2				6X20	VIDEO
22	2	X			2	2				6X20	VIDEO
23	2	X			2	2				6X20	VIDEO
31	3	X			3	3				6X20	VIDEO
32	3	X			3	3				6X20	VIDEO
41	4	X			4	4				6X20	VIDEO
42	4	X			4	4				6X20	VIDEO
43	4	X			4	4				6X20	VIDEO
51	5	X			5	5				6X20	VIDEO
52	5	X			5	5				6X20	VIDEO
53	5	X			5	5				6X20	VIDEO
61	6	X			6	6				6X20	VIDEO

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				X
2	X	5	MIN.	X
3				X
4				X
5	X	2	MIN.	X
6				X
7				
8				

OVERLAPS

O.L. "A" =
O.L. "B" =
O.L. "C" =
O.L. "D" =

N

TYPE OF INTERCONNECT COMMUNICATION	
NONE	X
TBC	
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
FIBER OPTIC	
RADIO	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM *:	SS- -

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
3M	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)

TRAFFIC CONTROL SIGNAL
GAMMON ROAD & GAMMON PLACE
CITY OF MADISON
DANE COUNTY

SIGNAL NO. TEMPORARY

REGION CONTACT:
DESIGNED BY: AYRES ASSOCIATES
REVISED BY:

PAGE 8 OF 8

PROJECT NO: 5992-10-32 | HWY: GAMMON RD | COUNTY: DANE | SEQUENCE OF OPERATIONS | SHEET | E

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024130_ST_GamP1 SeqOp.dgn PLOT BY : Mot1A PLOT DATE : 10/7/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

REFERENCED STANDARD DETAIL DRAWINGS

15C2a-C	BARRICADES AND SIGNS FOR MAINLINE CLOSURES (DETAIL C)
15C2b-D	BARRICADES AND SIGNS FOR VARIOUS CLOSURES (DETAIL D)
15C2b-E	BARRICADES AND SIGNS FOR VARIOUS CLOSURES (DETAIL E)
15C2d	ON RAMP LANE CLOSURE
15C2e	OFF RAMP LANE CLOSURE
15C2f	TRAFFIC CONTROL, ADVANCED WIDTH RESTRICTION SIGNING
15C5	TRAFFIC CONTROL, ADVANCED WARNING SIGNS 40 M.P.H. OR GREATER TWO-WAY DIVIDED ROAD OPEN TO TRAFFIC
15C12	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15D12a	TRAFFIC CONTROL, LANE CLOSURE
15D16	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D20	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21	TRAFFIC CONTROL, INTERESCTION WITHIN SINGLE LANE CLOSURE
15D22	TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D23	TRAFFIC CONTROL, INTERESCTION WITHIN TWO LANE CLOSURE
15D27	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D28	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED HIGHWAY
15D30a	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION - SIGNING FOR SIDEWALK CLOSURE
15D30b	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION - TEMPORARY BUS STOP PAD
15D39	TRAFFIC CONTROL FOR DROP-OFF SIGNING
15D40	TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE-WAY ROAD
15D41	TRAFFIC CONTROL, MULTIPLE LANE SHIFT MULTILANE DIVIDED ROAD

TEMPORARY PAVEMENT MARKING & MARKING REMOVAL

R-4	MARKING REMOVAL LINE 4-INCH (DESCRIPTION)
R-8	MARKING REMOVAL LINE 8-INCH (DESCRIPTION)
R-W	MARKING REMOVAL LINE WIDE (DESCRIPTION)
R-S	MARKING REMOVAL SPECIAL MARKING (DESCRIPTION)
R-WB-4	MARKING REMOVAL LINE WATER BLASTING 4-INCH (DESCRIPTION)
R-WB-8	MARKING REMOVAL LINE WATER BLASTING 8-INCH (DESCRIPTION)
R-WB-W	MARKING REMOVAL LINE WATER BLASTING WIDE (DESCRIPTION)
R-WB-S	MARKING REMOVAL SPECIAL MARKING WATER BLASTING (DESCRIPTION)
TP-4W	TEMPORARY MARKING LINE PAINT 4-INCH WHITE - SOLID
TP-4Y	TEMPORARY MARKING LINE PAINT 4-INCH YELLOW - SOLID
TP-4DY	TEMPORARY MARKING LINE PAINT 4-INCH DOUBLE YELLOW - SOLID
TP-4WD	TEMPORARY MARKING LINE PAINT 4-INCH WHITE LANE LINE DASH (12.5 FT SEG, 37.5 FT GAP)
TP-4W2	TEMPORARY MARKING LINE PAINT 4-INCH WHITE SKIP (2 FT SEG, 6 FT GAP)
TP-8W3	TEMPORARY MARKING LINE PAINT 8-INCH WHITE SKIP (3 FT SEG, 9 FT GAP)
TP-8W	TEMPORARY MARKING LINE PAINT 8-INCH WHITE - SOLID
TP-D	TEMPORARY MARKING DIAGONAL PAINT 12-INCH, 25' SPACING (COLOR)
TP-SL	TEMPORARY MARKING STOP LINE PAINT 18-INCH
TRT-4W	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH WHITE - SOLID
TRT-4W2	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH WHITE SKIP (2 FT SEG, 6 FT GAP)
TRT-4Y	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH YELLOW - SOLID
TRT-4DY	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH DOUBLE YELLOW - SOLID
TRT-4WD	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH WHITE LANE LINE DASH (12.5 FT SEG, 37.5 FT GAP)
TRT-8W	TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH WHITE - SOLID
TRT-8W3	TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH WHITE SKIP (3 FT SEG, 9 FT GAP)
TRT-SL	TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH
TRT-A2	TEMPORARY MARKING ARROW TYPE 2 REMOVABLE TAPE
TRT-WO	TEMPORARY MARKING WORDS REMOVABLE TAPE (ONLY)

OTHER SYMBOLS

- 6" ASPHALTIC SURFACE TEMPORARY OVER 12" BASE AGGREGATE DENSE 1¼-INCH
- GENERAL WORK AREA
- TRAFFIC FLOW ARROW ONE PER OPEN LANE
- TRAFFIC CONTROL DRUMS (TYPICAL SPACING)
- TRAFFIC CONTROL DRUMS WITH LIGHTS (TYPICAL SPACING)
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKERS (TYPICAL SPACING)
- TRAFFIC CONTROL CONES (TYPICAL SPACING)
- FLASHING ARROW BOARD
- FENCE SAFETY
- TEMPORARY PEDESTRIAN BARRICADE
- EXISTING TYPE I SIGN
- EXISTING TYPE II SIGN
- EXISTING SIGN ON FULL SPAN OVERHEAD SUPPORT
- EXISTING SIGN ON CANTILEVER OVERHEAD SUPPORT
- EXISTING SIGN ON SINGLE POLE SUPPORT IN MEDIAN (BUTTERFLY)
- DMS — EXISTING DYNAMIC MESSAGE SIGN
- COVERING SIGNS
- SIGN ON TEMPORARY SUPPORT (MOVABLE SUPPORT MAY BE USED)
- SIGN ON PERMANENT SUPPORT
- PERMANENT SIGN (CANTILEVER OVERHEAD SUPPORT)
- TYPE III BARRICADE WITH/WITHOUT ATTACHED SIGN
- TYPE II BARRICADE WITH/WITHOUT ATTACHED SIGN
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- 16" X 16" ORANGE WARNING FLAGS (INCIDENTAL TO OTHER ITEMS OF WORK)
- CONCRETE BARRIER TEMPORARY PRECAST (CBTP) (ANCHOR THROUGHOUT, PER SDD 14B7d & 14B8b)
- TEMPORARY SHORING

NOTES

ALL SIGNS ARE 48" X 48", UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS, EXCEPT THE BACKGROUND IS ORANGE.

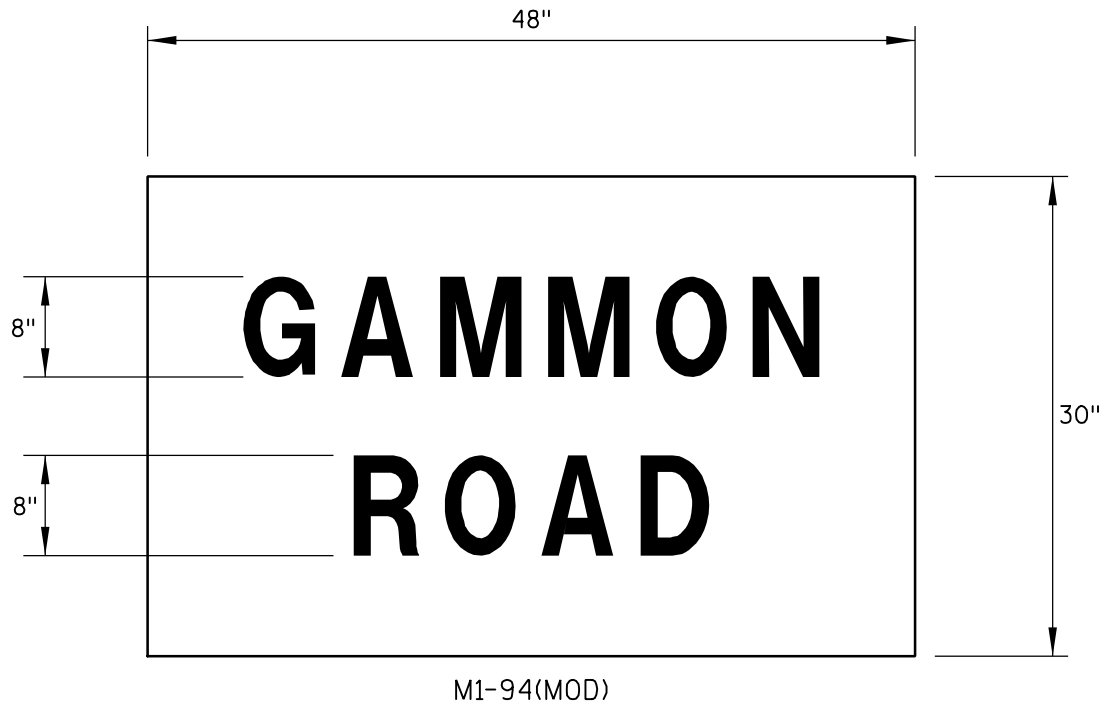
THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

MOUNT ALL PORTABLE TRAFFIC CONTROL SIGNS AT A MINIMUM HEIGHT OF 5 FEET, MEASURED FROM THE BOTTOM OF THE SIGN, ABOVE THE EDGE OF PAVEMENT.

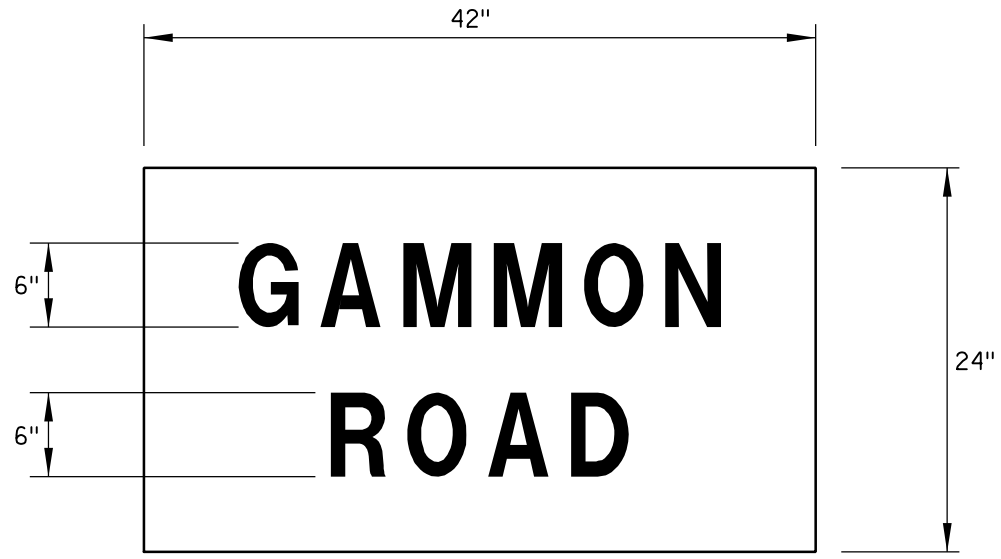
IF EXISTING SIGNS TO BE REMOVED, OR TO BE MOVED TO A NEW PERMANENT LOCATION, ARE FIRST MOVED FOR SERVICE UNDER STAGED CONSTRUCTION, AS APPROVED BY THE ENGINEER, THE SIGNS AND SUPPORTS WILL BE PAID FOR AS "TRAFFIC CONTROL SIGNS".

START SHOULDER CLOSURES WITH THE 5 DRUM MINIMUM TAPER, PER SDD 15D28.

2



M1-94(MOD)

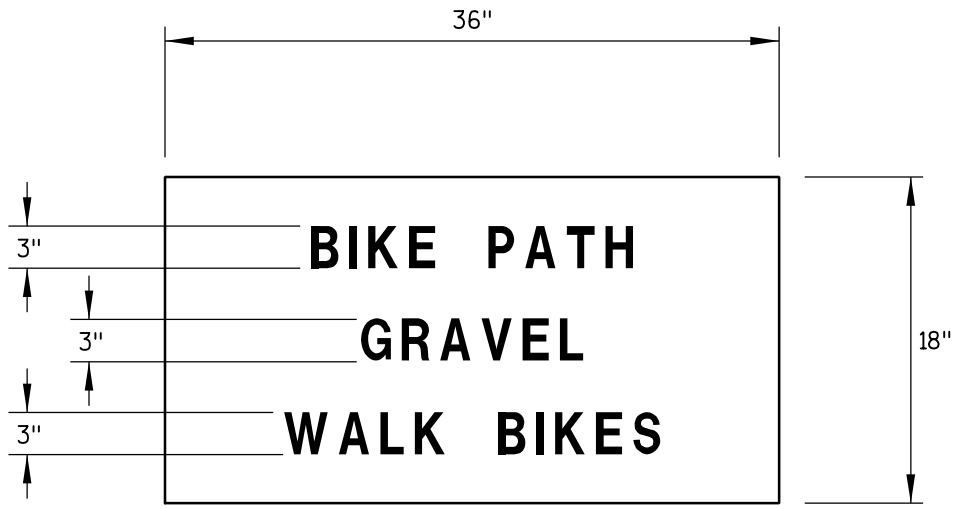


M1-94(MOD)

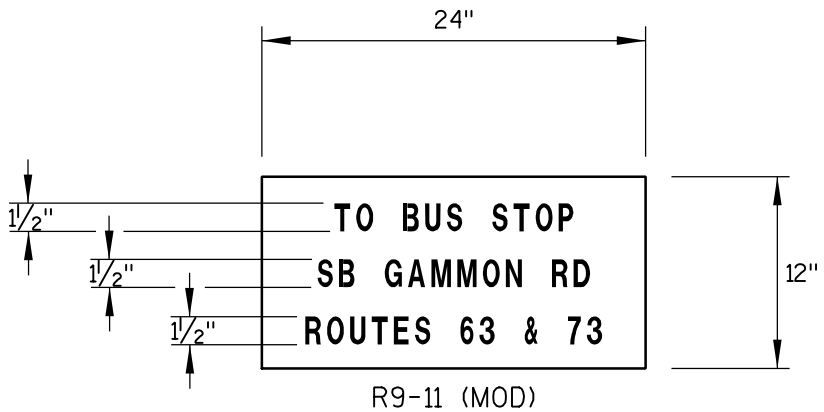
NOTES

1. ALL SIGNS TYPE II - TYPE F REFLECTIVE
2. COLOR:
   BACKGROUND - ORANGE
   MESSAGE - BLACK
3. MESSAGE SERIES - D
4. TEXT SIZE - 6" OR 8" UPPER CASE
5. SIGNS PAID FOR AS "TRAFFIC CONTROL SIGNS FIXED MESSAGE"

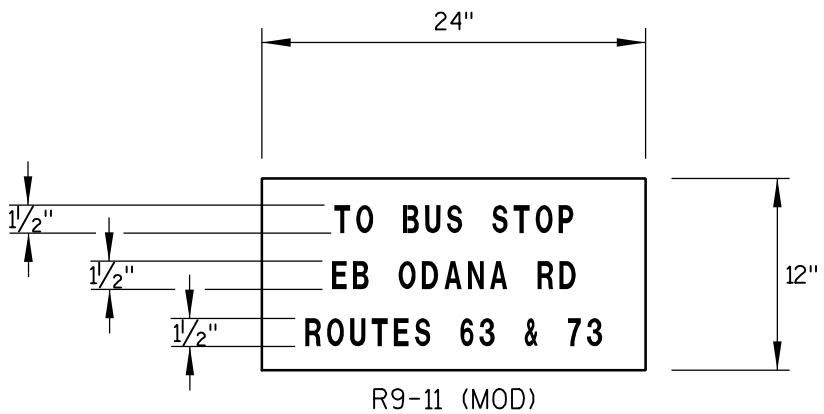
PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TEMPORARY SIGN DETAILS	SHEET 136	E



R11 (MOD)



R9-11 (MOD)



R9-11 (MOD)

NOTES

1. ALL SIGNS TYPE II - TYPE H REFLECTIVE
2. COLOR:
   BACKGROUND - WHITE
   MESSAGE - BLACK
3. MESSAGE SERIES - C
4. TEXT SIZE - 1½" OR 3" UPPER CASE
5. SIGNS PAID FOR AS "TRAFFIC CONTROL SIGNS FIXED MESSAGE"

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TEMPORARY SIGN DETAILS	SHEET 137	E

2

2

MINERAL POINT RD

S GAMMON RD

MINERAL POINT RD

GAMMON PL

GRAND CANYON DR

W PLATTE DR

ODANA DR

GRAND CANYON DR

SEYBOLD RD

S GAMMON RD

FRAME A	FRAME B
DURING GAMM RD CONST	MALL AND BUSINESS OPEN

DEFAULT
STAGE 1- MALL OPEN

FRAME A	FRAME B
ENTERING WORK ZONE	PROCEED WITH CAUTION

DEFAULT
STAGE 1- MALL CLOSED & STAGE 2-4

FRAME A	FRAME B
ONE SB LANE TO CLOSE	XX NT XX PM TO XX AM

3 CALENDAR DAYS IN ADVANCE OF LANE CLOSURE

FRAME A	FRAME B
NEW TRAFFIC PATTERN	*

3 CALENDAR DAYS AT BEGINNING OF NEW SUBSTAGE

PCMS
(CLOSED OUTSIDE SB LANE)

FRAME A	FRAME B
ONE WB LANE TO CLOSE	STARTING XX DAY XX-XX

7 CALENDAR DAYS IN ADVANCE OF SUBSTAGE 2C

PCMS

FRAME A	FRAME B
RAMP TO CLOSE	XX NT XX PM TO XX AM

7 CALENDAR DAYS IN ADVANCE OF OVERNIGHT CLOSURE OF ON-RAMP

PCMS

FRAME A	FRAME B
DURING GAMM RD CONST	MALL AND BUSINESS OPEN

DEFAULT -
MALL OPEN

FRAME A	FRAME B
ENTERING WORK ZONE	PROCEED WITH CAUTION

DEFAULT -
MALL CLOSED

FRAME A	FRAME B
RAMP TO CLOSE	XX NT XX PM TO XX AM

7 CALENDAR DAYS IN ADVANCE OF OVERNIGHT CLOSURE OF OFF-RAMP

FRAME A	FRAME B
NEW TRAFFIC PATTERN	*

3 CALENDAR DAYS AT BEGINNING OF NEW SUBSTAGE

12 14

12 14

PCMS
(CLOSED OUTSIDE NB LANE)

FRAME A	FRAME B
DURING GAMM RD CONST	MALL AND BUSINESS OPEN

DEFAULT -
MALL OPEN

FRAME A	FRAME B
ENTERING WORK ZONE	PROCEED WITH CAUTION

DEFAULT -
MALL CLOSED

FRAME A	FRAME B
ONE NB LANE TO CLOSE	XX NT XX PM TO XX AM

3 CALENDAR DAYS IN ADVANCE OF LANE CLOSURE

FRAME A	FRAME B
NEW TRAFFIC PATTERN	*

3 CALENDAR DAYS AT BEGINNING OF NEW SUBSTAGE

N

* FRAME B	
MALL OPEN -	"MALL AND BUSINESS OPEN"
MALL CLOSED -	"N/A"

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - PCMS	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024902_TC_PCMS.dgn
PLOT BY : kk226 PLOT DATE : 10/3/2019 PLOT SCALE : 1:400
WISDOT/CADDS SHEET 42

2

N

DO NOT BLOCK INTERSECTION
R10-7
36" X 48"

GAMMON RD

W PLATTE DR

RH
15D21
- ODANA RD
- GAMMON PL

RH
15D40
250' NB LANE SHIFT

GRAND CANYON DR

12 14

12 14

RH
W01-3L
25 M.P.H.
W013-1
24" X 24"

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1

SEYBOLD RD

END ROAD WORK
G20-2A
48" X 24"

15D20
NB INSIDE (LEFT) LANE -
250' LANE DROP TAPER
(OMIT PAVEMENT MARKING)

RH

ROAD WORK 1000 FT
W20-1

RH
W04-2L

WATTS RD

WATTS RD

KOTTKE RD

RH
LEFT LANE CLOSED AHEAD
W20-55A

ROAD WORK 1/2 MILE
W20-1

GAMMON RD

SCHROEDER RD

NB GAMMON RD

RH RESTRICTED HOURS - SEE SPECIAL PROVISIONS

N

ROAD WORK 1500 FT
W20-1

GAMMON RD

2

RH
LEFT LANE CLOSED AHEAD
W20-55A

TREE LANE

RH
W04-2L

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1

RH
15D20
SB INSIDE (LEFT) LANE -
250' LANE DROP TAPER
(OMIT PAVEMENT MARKING)

RH
W01-3L
25 M.P.H.
W013-1
24" X 24"

MINERAL POINT RD

MINERAL POINT RD

RH
15D40
250' NB LANE SHIFT

RH
15D21

RH
15D21
- ODANA RD

GAMMON RD

SB GAMMON RD

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - ADVANCE WARNING SIGNING - NB & SB GAMMON	SHEET E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024903_TC_AWS-Gammon Rd.dgn
PLOT BY : kk226 PLOT DATE : 10/3/2019 PLOT SCALE : 1:400
WISDOT/CADDS SHEET 42

2

2

GAMMON RD

ODANA RD

NARROW TURNS W05-2(MOD)

STAY IN LANE R04-9 36" X 48"

200' MIN

NORTH M3-1 36" X 18"
GAMMON ROAD MI-94(MOD) 48" X 30"
ROAD WORK AHEAD W20-1

NORTH M3-1 36" X 18"
GAMMON ROAD MI-94(MOD) 48" X 30"
ROAD WORK 1/2 MILE W20-1

S WHITNEY WAY

12 14

N

SEYBOLD RD

NEXT RAMP M4-21(MOD) 36" X 30"
WATCH FOR BACKUPS W8-74

NORTH M3-1 36" X 18"
GAMMON ROAD MI-94(MOD) 48" X 30"
ROAD WORK 1 MILE W20-1

WATTS RD

ODANA RD

RH

WHEN ONE OF TWO WB OFF-RAMP LANES ARE CLOSED OVERNIGHT FOR EITHER TURNING MOVEMENT, PROVIDE FOR THE FOLLOWING, AS REQUIRED:

- 15D40 FOR 25:1 MIN. LANE SHIFT, LIGHTED DRUMS, SIGNS W01-4L/R & W013-1
- DRUMS SPACED AT 50' FOR EACH CLOSED LANE
- TYPE III BARRICADE WITH LANE CLOSED SIGN (R11-2L, 48"x30") FOR EACH CLOSED LANE
- OMIT PAVEMENT MARKINGS

NORTH M3-1 36" X 18"
GAMMON ROAD MI-94(MOD) 48" X 30"
ROAD WORK 1 MILE W20-1

SCHROEDER RD

GAMMON RD

SCHROEDER RD

12 14

S WHITNEY WAY

RH RESTRICTED HOURS - SEE SPECIAL PROVISIONS

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - ADVANCE WARNING SIGNING - WB OFF-RAMP (1 of 2) OPEN TO TRAFFIC	SHEET 140	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024904_TC_AWS-WB off open.dgn

PLOT BY : kk226 PLOT DATE : 10/3/2019 PLOT SCALE : 1:600

WISDOT/CADDS SHEET 42

N

GAMMON RD

ODANA RD

RAMP CLOSED (RH)
R11-2R
48" X 30"

(RH) CLOSE WB OUTSIDE (RIGHT) LANE - DRUMS SPACED AT 100'

1000'

1500'

ODANA RD

RESEARCH PARK BLVD

(RH) 15D12a
WB OUTSIDE (RIGHT) LANE-
660' LANE DROP TAPER
(OMIT PAVEMENT MARKING)

S WHITNEY WAY

TOKAY BLVD

12 14

750'

750'

SEYBOLD RD

(RH) RAMP CLOSED 1000 FT
W20-3(MOD)

(RH) LANE CLOSED
R11-2L
48" X 30"

(RH) RAMP CLOSED AHEAD
W20-53A

(RH) LANE CLOSED
R11-2L
48" X 30"

(RH) RIGHT LANE CLOSED AHEAD
W20-5

WATTS RD

ODANA RD

END OF ON-RAMP
MERGE TAPER

FORWARD DR

(RH) W04-2R

GAMMON RD

SCHROEDER RD

SCHROEDER RD

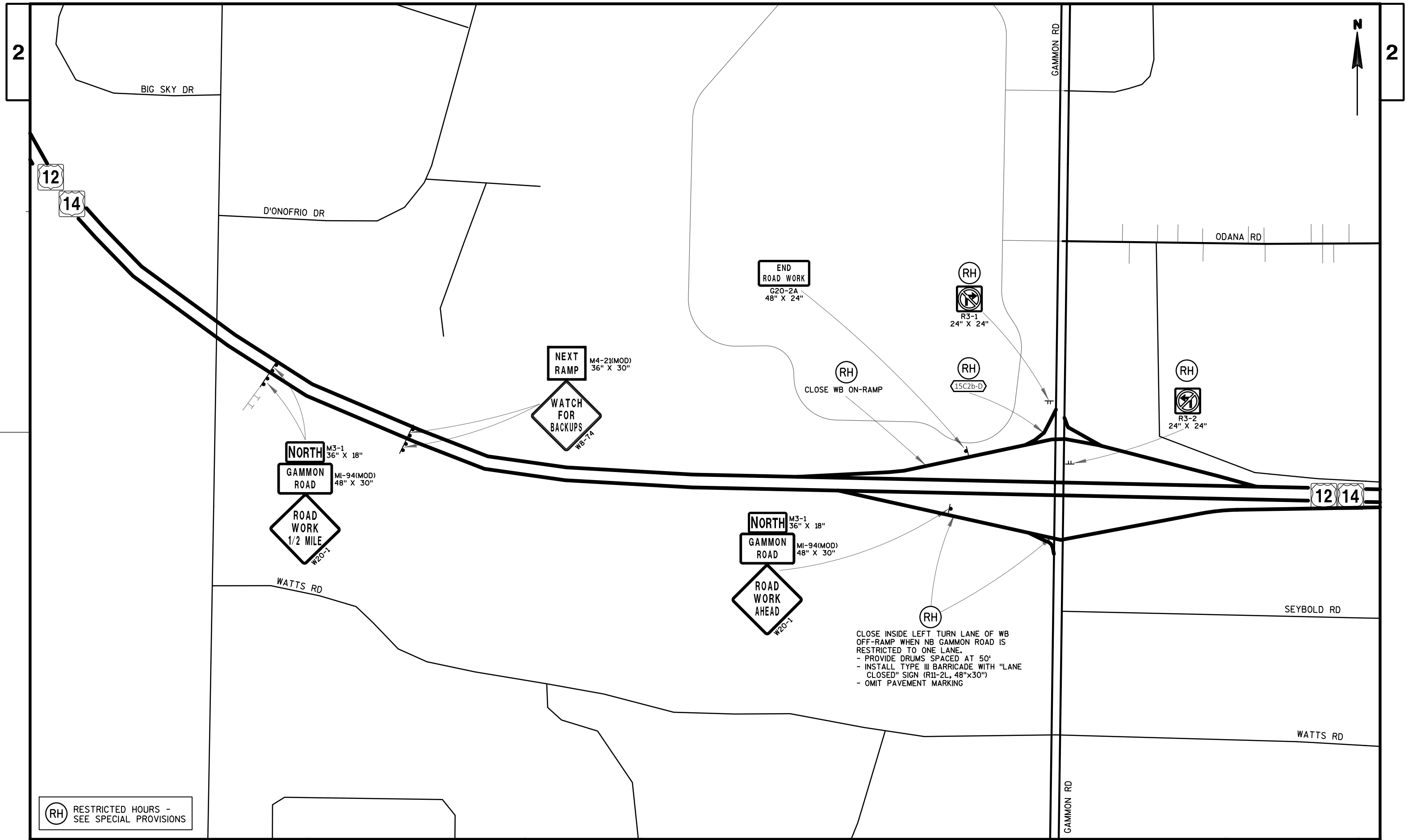
12 14

S WHITNEY WAY

(RH) RESTRICTED HOURS - SEE SPECIAL PROVISIONS

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - ADVANCE WARNING SIGNING - WB OFF-RAMP (2 of 2) CLOSED TO TRAFFIC	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024905_TC_AWS-WB off closed.dgn
PLOT BY : kk226
PLOT DATE : 10/3/2019
PLOT SCALE : 1:600
WISDOT/CADDS SHEET 42



PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - ADVANCE WARNING SIGNING - EB OFF-RAMP & WB ON-RAMP	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024906_TC_AWS-EB off-WB on.dgn PLOT BY : kk226 PLOT DATE : 10/3/2019 PLOT SCALE : 1:400

WISDOT/CADDS SHEET 42

2

2

N

GAMMON PL

1A
DO NOT CLOSE MEDIAN OPENING

GAMMON RD

RH AND SUBSTAGES 2C & 2D

180' LANE DROP TAPER FOR INSIDE LEFT LANE (PROVIDE TRT-4Y, SUBSTAGES 2C & 2D)

PROVIDE 16' MIN CLEAR WIDTH

RH 1A
R3-2
24" X 24"

RH 1A
ONLY
R3-5OR
30" X 36"

RH
W01-3L
15
M.P.H.
W013-1
24" X 24"

ROAD WORK AHEAD
W20-1

RH AND SUBSTAGES 2C & 2D
W04-2L

RH AND SUBSTAGES 2C & 2D
LEFT LANE CLOSED AHEAD
W20-5A

GRAND CANYON DR

NORMANDY LN

GAMMON ROAD
MI-94(MOD)
42" X 24"
ROAD WORK 1500 FT
W20-1

RH 1A
W01-6
48" X 24"

ODANA RD

RH 1A
R3-2
24" X 24"

15D21

RH AND SUBSTAGES 2C & 2D

RH

15D40

(OMIT PAVEMENT MARKING)

CLOSE 2 OF 3 WB APPROACH LANES

RH 1A

END ROAD WORK
G20-2A
48" X 24"

W PLATTE DR

ODANA RD

GAMMON RD

GRAND CANYON DR

RH RESTRICTED HOURS - SEE SPECIAL PROVISIONS

1A SUBSTAGES 1A & 3A - CLOSE GAMMON ROAD MEDIAN OPENING FOR UP TO SIX NIGHTS TOTAL TO REPLACE STORM SEWER TRUNKLINE, AND FOR HMA PAVING. SEE SPECIAL PROVISIONS.

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - ADVANCE WARNING SIGNING - ODANA RD	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024907_TC_AWS-Odana Rd.dgn
PLOT BY : kk226
PLOT DATE : 10/3/2019
PLOT SCALE : 1:200
WISDOT/CADDS SHEET 42

2

2

N

RANDOLPH DR

S WESTFIELD RD

GAMMON RD

SUNSET MEMORY GARDENS

MINERAL POINT RD

MINERAL POINT RD

GAMMON PL

GRAND CANYON DR

GAMMON RD

SOUTH M3-3 24" X 12"
GAMMON ROAD MI-94(MOD) 42" X 24"
ROAD WORK 1500 FT W20-1

SOUTH M3-3 24" X 12"
GAMMON ROAD MI-94(MOD) 42" X 24"
ROAD WORK AHEAD W20-1

SOUTH M3-3 24" X 12"
GAMMON ROAD MI-94(MOD) 42" X 24"
ROAD WORK AHEAD W20-1

SOUTH M3-3 24" X 12"
GAMMON ROAD MI-94(MOD) 42" X 24"
ROAD WORK 1500 FT W20-1

SOUTH M3-3 24" X 12"
GAMMON ROAD MI-94(MOD) 42" X 24"
ROAD WORK AHEAD W20-1

SOUTH M3-3 24" X 12"
GAMMON ROAD MI-94(MOD) 42" X 24"
ROAD WORK AHEAD W20-1

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - ADVANCE WARNING SIGNING - MINERAL POINT RD	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024908_TC_AWS-Mineral Point Rd.dgn PLOT BY : kk226 PLOT DATE : 10/3/2019 PLOT SCALE : 1:300

WISDOT/CADDS SHEET 42

2

RH RESTRICTED HOURS - SEE SPECIAL PROVISIONS

N

WEST TOWNE MALL

MINERAL POINT RD

MALL ENTRANCE

DO NOT CLOSE BOTH ENTRANCES CONCURRENTLY

RH R3-2 24" X 24"

RH R3-2 24" X 24"

RH R3-1 24" X 24"

RH 15C2b-D

ROAD WORK AHEAD W20-1

MALL ENTRANCE

RH R3-1 24" X 24"

RH R3-1 24" X 24"

RH 15C2b-D

ROAD WORK AHEAD W20-1

MALL ENTRANCE

RH R3-1 24" X 24"

GAMMON RD

GAMMON RD

RH R3-2 24" X 24"

RH R3-2 24" X 24"

RH W01-7 48" X 24"

RH W01-7 48" X 24"

ROAD WORK AHEAD W20-1

GAMMON PL

ROAD CLOSED AHEAD W20-3

W PLATTE DR

MINERAL POINT RD

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - ADVANCE WARNING SIGNING - MALL ENTRANCES AND GAMMON PL	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024909_TC_AWS-West Towne Mall.dgn PLOT BY : kk226 PLOT DATE : 10/3/2019 PLOT SCALE : 1:150

WISDOT/CADDS SHEET 42

2

N

TRAFFIC LEGEND:
VEHICULAR
PEDESTRIAN OR BIKE

BIKE PATH WORK AHEAD
W20-1(MOD)
30" X 30"

PARKING LOT

15D28
(DRUMS SPACED AT 50')

GRAND CANYON DR

MH

BIKE PATH WORK AHEAD
W20-1(MOD)
30" X 30"

PARKING LOT

BIKE PATH

BIKE UNDERPASS

WB USH 12/14

BIKE PATH WORK AHEAD
W20-1(MOD)
30" X 30"
(LOCATED JUST NORTH OF SEYBOLD RD)

2

PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - BIKE PATH AND PARKING LOT - PHASE A	SHEET 146	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024950_TC-Path and Parking-A.dgn PLOT BY : kk226 PLOT DATE : 10/3/2019 PLOT SCALE : 1:40

2

N

TRAFFIC LEGEND:
- VEHICULAR
- PEDESTRIAN OR BIKE

15D28
(DRUMS SPACED AT 50')

SIDEWALK CLOSED
R9-9
24" X 12"

BUILDING ENTRANCE

BIKE PATH WORK AHEAD
W20-1(MOD)
30" X 30"

BIKE PATH GRAVEL WALK BIKES
R11(MOD)
36" X 18"

PARKING LOT

SAME AS PHASE A

BIKE PATH GRAVEL WALK BIKES
R11(MOD)
36" X 18"

BIKE PATH WORK AHEAD
W20-1(MOD)
30" X 30"

MH

GRAND CANYON DR

ACCOMMODATE ACCESS THRU WORK ZONE - SEE SPECIAL PROVISIONS

PARKING LOT

BIKE PATH

PATH CLOSED
R9-9(MOD)
24" X 12"

BIKE PATH GRAVEL WALK BIKES
R11(MOD)
36" X 18"

SEGMENT OF BIKE PATH UNDER USE	
CONSTRUCTION OPERATIONS	PRIOR TO PAVING (NO CONSTRUCTION OPERATIONS)
WHEN RECONSTRUCTING BIKE PATH UNDER USE, PROVIDE GUIDE PERSONS TO ASSIST PATH USERS THROUGH THE WORK ZONE. GUIDE PERSONS ARE INCIDENTAL TO OTHER ITEMS OF WORK, AND NOT PAID FOR SEPARATELY.	- 8' MINIMUM CLEAR WIDTH. - TRAFFIC CONTROL CONES SPACED AT 10'. - TEMPORARY SURFACE = 6" MINIMUM BASE AGGREGATE DENSE 1 1/4-INCH. - UNPAVED CONDITION SHALL NOT EXCEED TWO CALENDAR WEEKS (14 DAYS)

BIKE UNDERPASS

BIKE PATH GRAVEL WALK BIKES
R11(MOD)
36" X 18"
(LOCATED JUST SOUTH OF UNDERPASS)

BIKE PATH WORK AHEAD
W20-1(MOD)
30" X 30"
(LOCATED JUST NORTH OF SEYBOLD RD)

WB USH 12/14

PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - BIKE PATH AND PARKING LOT - PHASE B	SHEET 147	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024951_TC-Path and Parking-B.dgn
PLOT BY : kk226
PLOT DATE : 10/3/2019
PLOT SCALE : 1:40
WISDOT/CADDS SHEET 42

2

2

N

TRAFFIC LEGEND:
VEHICULAR
PEDESTRIAN OR BIKE

15D28
(DRUMS SPACED AT 50')

SAME AS PHASES A & B

GRAND CANYON DR

PARKING LOT

PARKING LOT

MH

MH

BIKE PATH

PATH CLOSED
R9-9(MOD)
24" X 12"

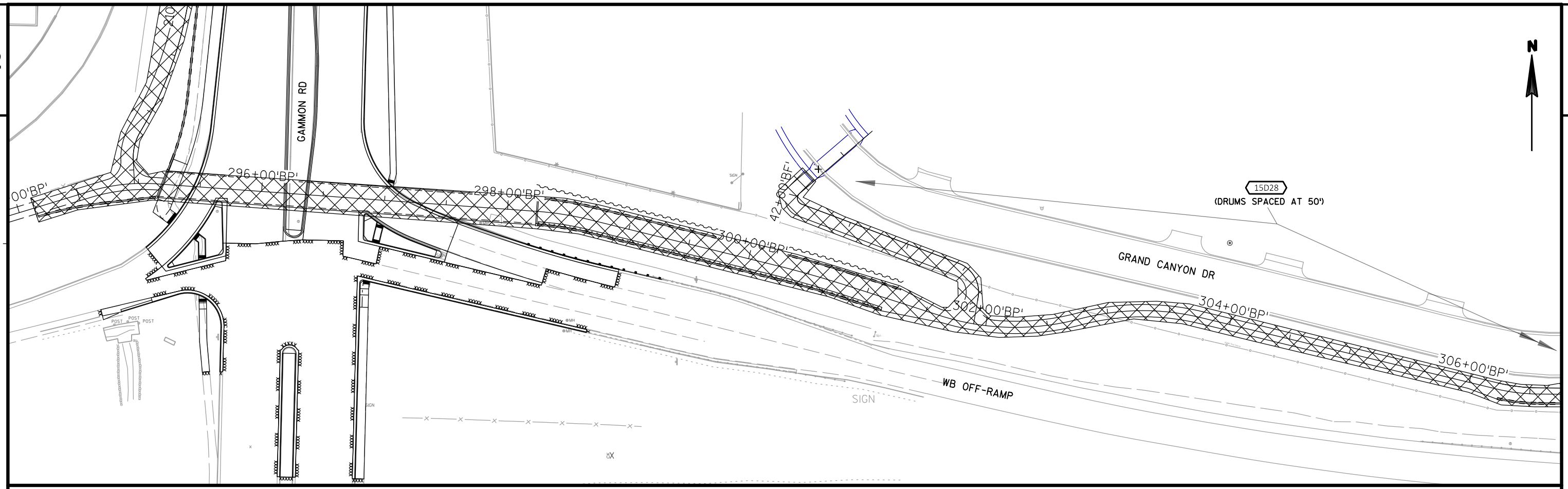
BIKE PATH WORK AHEAD
W20-1(MOD)
30" X 30"

BIKE UNDERPASS

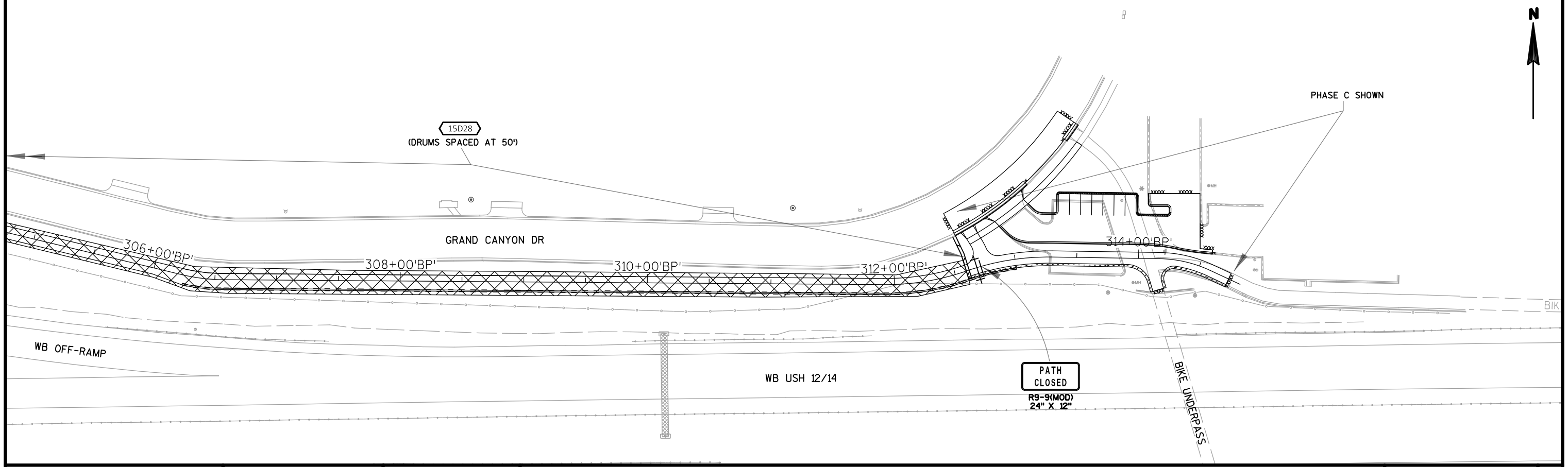
WB USH 12/14

PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - BIKE PATH AND PARKING LOT - PHASE C	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024952_TC-Path and Parking-C.dgn PLOT BY : kk226 PLOT DATE : 10/3/2019 PLOT SCALE : 1:40



2



PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - BIKE PATH - PHASES A, B & C	SHEET 149	E

2

N

294+00'BP'

240+00'BC'

296+00'BP'

298+00'BP'

PATH CLOSED
R9-9(MOD)
24" X 12"

MALL ENTRANCE

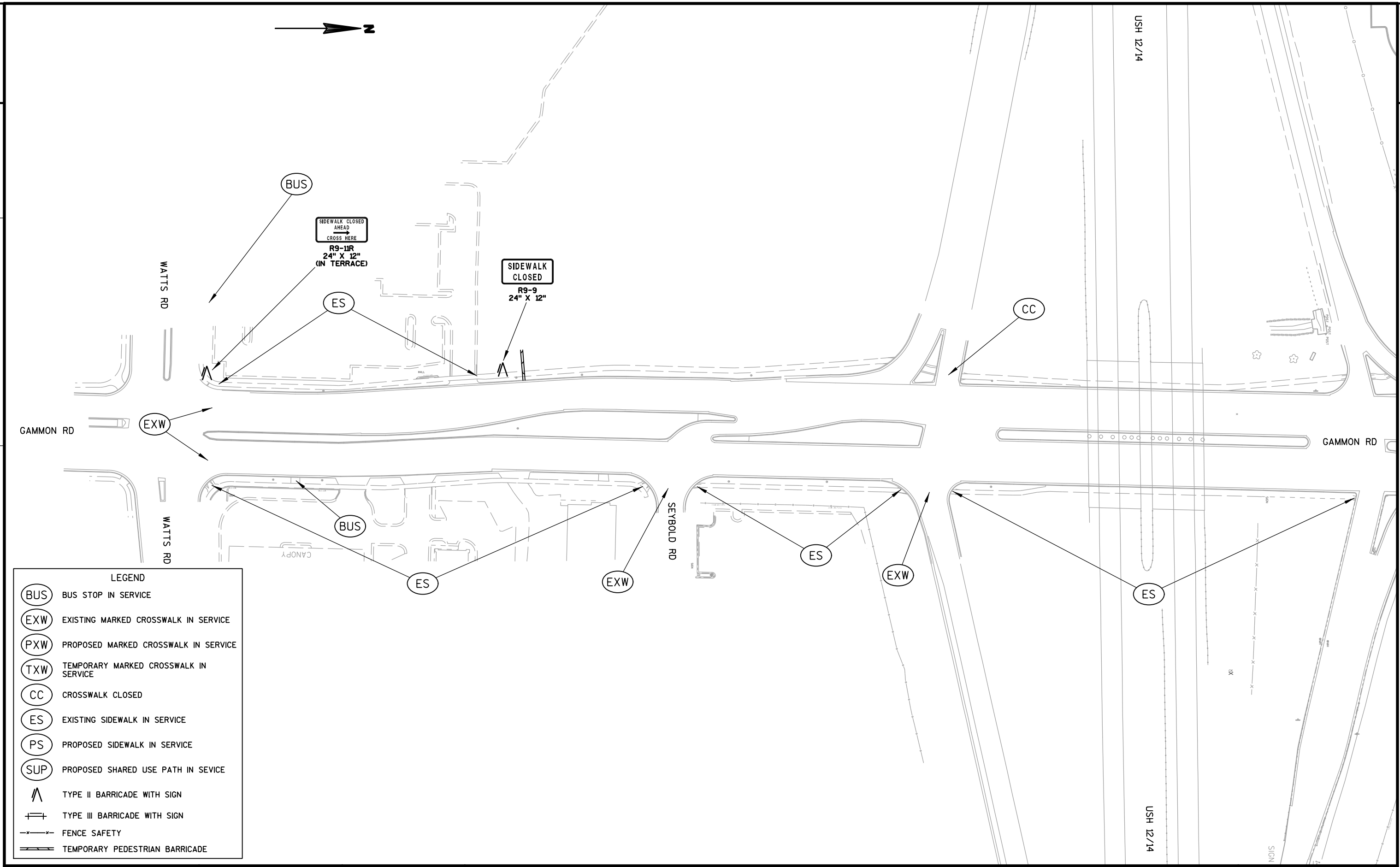
GAMMON RD

GAMMON RD

ODANA RD

42+00'BE'

PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - BIKE PATH - PHASES A, B & C	SHEET 150	E



LEGEND

BUS	BUS STOP IN SERVICE
EXW	EXISTING MARKED CROSSWALK IN SERVICE
PXW	PROPOSED MARKED CROSSWALK IN SERVICE
TXW	TEMPORARY MARKED CROSSWALK IN SERVICE
CC	CROSSWALK CLOSED
ES	EXISTING SIDEWALK IN SERVICE
PS	PROPOSED SIDEWALK IN SERVICE
SUP	PROPOSED SHARED USE PATH IN SEVICE
	TYPE II BARRICADE WITH SIGN
	TYPE III BARRICADE WITH SIGN
	FENCE SAFETY
	TEMPORARY PEDESTRIAN BARRICADE

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - SIDEWALK OVERVIEW - SUBSTAGES 1B THRU EARLY 1F	SHEET 151	E

MAINTAIN SIDEWALK ACCESS THROUGH CONSTRUCTION - INCIDENTAL TO "TEMPORARY CROSSWALK ACCESS NORTH & EAST LEGS ODANA ROAD"

N

TRAFFIC LEGEND:
- VEHICULAR
- PEDESTRIAN OR BIKE

SIDEWALK CLOSED
R9-9
24" X 12"
(FOR WEST LEG)
(BEGINNING SUBSTAGE 1B)

SIDEWALK CLOSED
R9-9
24" X 12"
(FACING NORTH)

PATH CLOSED
R9-9(MOD)
24" X 12"

SIDEWALK CLOSED
R9-9
24" X 12"
(SUBSTAGE 1A)

SIDEWALK CLOSED
R9-9
24" X 12"

SIDEWALK CLOSED
R9-9
24" X 12"
(SUBSTAGE 1A)

SIDEWALK CLOSED
R9-9
24" X 12"

MALL ENTRANCE

CC

ES

TXW

GAMMON RD

BIKE PATH UNDER CONSTRUCTION

BUS
(SEE DETAILS)

SIDEWALK CONSTRUCTED
SUBSTAGE 1A IN SERVICE
SUBSTAGE 1B

CC

GAMMON RD

EXW

ES

EXW

ODANA RD

BUS
(EB)

BUS

ES

BUS
(WB)

LEGEND

BUS	BUS STOP IN SERVICE
EXW	EXISTING MARKED CROSSWALK IN SERVICE
PXW	PROPOSED MARKED CROSSWALK IN SERVICE
TXW	TEMPORARY MARKED CROSSWALK IN SERVICE
CC	CROSSWALK CLOSED
ES	EXISTING SIDEWALK IN SERVICE
PS	PROPOSED SIDEWALK IN SERVICE
SUP	PROPOSED SHARED USE PATH IN SEVICE
	TYPE II BARRICADE WITH SIGN
	TYPE III BARRICADE WITH SIGN
	FENCE SAFETY
	TEMPORARY PEDESTRIAN BARRICADE

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - SIDEWALK OVERVIEW - SUBSTAGES 1B THRU EARLY 1F	SHEET 152	E

2

N

LEGEND

- BUS — BUS STOP IN SERVICE
- EXW — EXISTING MARKED CROSSWALK IN SERVICE
- PXW — PROPOSED MARKED CROSSWALK IN SERVICE
- TXW — TEMPORARY MARKED CROSSWALK IN SERVICE
- CC — CROSSWALK CLOSED
- ES — EXISTING SIDEWALK IN SERVICE
- PS — PROPOSED SIDEWALK IN SERVICE
- SUP — PROPOSED SHARED USE PATH IN SEVICE
- TYPE II BARRICADE WITH SIGN
- TYPE III BARRICADE WITH SIGN
- FENCE SAFETY
- TEMPORARY PEDESTRIAN BARRICADE

MAINTAIN SIDEWALK ACCESS THROUGH CONSTRUCTION - INCIDENTAL TO "TEMPORARY CROSSWALK ACCESS NORTH LEG GAMMON PLACE."

BUS (SB)

SIDEWALK CLOSED R9-9 24" X 12"

SIDEWALK CLOSED R9-9 24" X 12" (FOR WEST LEG)

SIDEWALK CLOSED R9-9 24" X 12" (FACING NORTH)

EXW

MALL ENTRANCE

ES

CC

TXW

GAMMON RD

GAMMON PL

MINERAL POINT RD

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - SIDEWALK OVERVIEW - SUBSTAGES 1B THRU EARLY 1F	SHEET 153	E

2

N

USH 12/14

WATTS RD

GAMMON RD

SEYBOLD RD

BUS

ES

EXW

CC

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11L
24" X 12"
(IN TERRACE)

SIDEWALK CLOSED
R9-9
24" X 12"

LEGEND

BUS	BUS STOP IN SERVICE
EXW	EXISTING MARKED CROSSWALK IN SERVICE
PXW	PROPOSED MARKED CROSSWALK IN SERVICE
TXW	TEMPORARY MARKED CROSSWALK IN SERVICE
CC	CROSSWALK CLOSED
ES	EXISTING SIDEWALK IN SERVICE
PS	PROPOSED SIDEWALK IN SERVICE
SUP	PROPOSED SHARED USE PATH IN SEVICE
	TYPE II BARRICADE WITH SIGN
	TYPE III BARRICADE WITH SIGN
	FENCE SAFETY
	TEMPORARY PEDESTRIAN BARRICADE

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - SIDEWALK OVERVIEW - SUBSTAGES LATE 1F THRU 2D	SHEET 154	E

2

N

LEGEND

- BUS — BUS STOP IN SERVICE
- EXW — EXISTING MARKED CROSSWALK IN SERVICE
- PXW — PROPOSED MARKED CROSSWALK IN SERVICE
- TXW — TEMPORARY MARKED CROSSWALK IN SERVICE
- CC — CROSSWALK CLOSED
- ES — EXISTING SIDEWALK IN SERVICE
- PS — PROPOSED SIDEWALK IN SERVICE
- SUP — PROPOSED SHARED USE PATH IN SEVICE
- TYPE II BARRICADE WITH SIGN
- TYPE III BARRICADE WITH SIGN
- FENCE SAFETY
- TEMPORARY PEDESTRIAN BARRICADE

SUP

PATH CLOSED
R9-9(MOD)
24" X 12"

BUS

PS

PXW

PXW

MALL ENTRANCE

ES

SUP

GAMMON RD

BIKE PATH UNDER CONSTRUCTION

EXW (SUBSTAGES 2A & 2B)

TXW (SUBSTAGES 2C & 2D)

SIDEWALK CLOSED
R9-9
24" X 12"
(FUTURE SOUTH LEG CROSSWALK)

TXW

GAMMON RD

CC

SIDEWALK CLOSED
R9-9
24" X 12"

SIDEWALK CLOSED
R9-9
24" X 12"

SIDEWALK CLOSED
R9-9
24" X 12"
(SUBSTAGE 2D - WORK ON ODANA OUTSIDE LANES AND SIDEWALK)

ODANA RD

BUS
(SEE DETAILS)

MAINTAIN SIDEWALK ACCESS THROUGH CONSTRUCTION - INCIDENTAL TO "TEMPORARY CROSSWALK ACCESS NORTH & EAST LEGS ODANA ROAD"

BUS
(EB)

USE TEMPORARY PEDESTRIAN BARRICADE WHEN SIDEWALK IS OPEN IN CLOSE PROXIMITY TO CONSTRUCTION

BUS
(WB)

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - SIDEWALK OVERVIEW - SUBSTAGES LATE 1F THRU 2D	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024964_TC-Gammon Sidewalk-2.dgn PLOT BY : kk226 PLOT DATE : 10/3/2019 PLOT SCALE : 1:100

2

N

LEGEND

- BUS — BUS STOP IN SERVICE
- EXW — EXISTING MARKED CROSSWALK IN SERVICE
- PXW — PROPOSED MARKED CROSSWALK IN SERVICE
- TXW — TEMPORARY MARKED CROSSWALK IN SERVICE
- CC — CROSSWALK CLOSED
- ES — EXISTING SIDEWALK IN SERVICE
- PS — PROPOSED SIDEWALK IN SERVICE
- SUP — PROPOSED SHARED USE PATH IN SEVICE
- TYPE II BARRICADE WITH SIGN
- TYPE III BARRICADE WITH SIGN
- FENCE SAFETY
- TEMPORARY PEDESTRIAN BARRICADE

BUS (SB)

SUP

ES

MALL ENTRANCE

PXW

ES

SUP

MINERAL POINT RD

BUS

SIDEWALK CLOSED
R9-9
24" X 12"
(CONSTRUCT STORM SEWER TRUNKLINE DISCHARGE)

SIDEWALK CLOSED
R9-9
24" X 12"
(SUBSTAGE 2B - FOR EAST LEG)
(CONSTRUCT STORM SEWER TRUNKLINE DISCHARGE)

GAMMON RD

TXW

EXW

GAMMON RD

EXW (SUBSTAGE 2A)
CC (SUBSTAGE 2B)
PXC (SUBSTAGES 2C & 2D)

SUBSTAGE 2B -
MAINTAIN SIDEWALK ACCESS THROUGH CONSTRUCTION - INCIDENTAL TO "TEMPORARY CROSSWALK ACCESS NORTH LEG GAMMON PLACE."

SIDEWALK CLOSED
R9-9
24" X 12"
(SUBSTAGE 2B - RECONSTRUCT GAMMON PLACE)
(CONSTRUCT STORM SEWER TRUNKLINE DISCHARGE)

GAMMON PL

BUS

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11R
24" X 12"
(IN TERRACE)

MINERAL POINT RD

USE TEMPORARY PEDESTRIAN BARRICADE WHEN SIDEWALK IS OPEN IN CLOSE PROXIMITY TO CONSTRUCTION

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - SIDEWALK OVERVIEW - SUBSTAGES LATE 1F THRU 2D	SHEET 156	E

LEGEND

- BUS — BUS STOP IN SERVICE
- EXW — EXISTING MARKED CROSSWALK IN SERVICE
- PXW — PROPOSED MARKED CROSSWALK IN SERVICE
- TXW — TEMPORARY MARKED CROSSWALK IN SERVICE
- CC — CROSSWALK CLOSED
- ES — EXISTING SIDEWALK IN SERVICE
- PS — PROPOSED SIDEWALK IN SERVICE
- SUP — PROPOSED SHARED USE PATH IN SEVICE
- TYPE II BARRICADE WITH SIGN
- TYPE III BARRICADE WITH SIGN
- FENCE SAFETY
- TEMPORARY PEDESTRIAN BARRICADE

N

USH 12/14

WATTS RD

GAMMON RD

BUS

ES

EXW

EXW

ES

GAMMON RD

WATTS RD

BUS

ES

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11L
24" X 12"
(SUBSTAGES 3A THRU 3D)
(IN TERRACE)

SIDEWALK CLOSED
R9-9
24" X 12"

SEYBOLD RD

CC

USH 12/14

2

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - SIDEWALK OVERVIEW - SUBSTAGES 3A THRU 3D	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024966_TC-Gammon Sidewalk-3.dgn PLOT BY : kk226 PLOT DATE : 10/3/2019 PLOT SCALE : 1:100

2

N

LEGEND

- BUS — BUS STOP IN SERVICE
- EXW — EXISTING MARKED CROSSWALK IN SERVICE
- PXW — PROPOSED MARKED CROSSWALK IN SERVICE
- TXW — TEMPORARY MARKED CROSSWALK IN SERVICE
- CC — CROSSWALK CLOSED
- ES — EXISTING SIDEWALK IN SERVICE
- PS — PROPOSED SIDEWALK IN SERVICE
- SUP — PROPOSED SHARED USE PATH IN SEVICE
- TYPE II BARRICADE WITH SIGN
- TYPE III BARRICADE WITH SIGN
- FENCE SAFETY
- TEMPORARY PEDESTRIAN BARRICADE

SUP

PATH CLOSED
R9-9(MOD)
24" X 12"
(SUBSTAGES 3A, 3B & 3C)

PXW

BUS

PS

SIDEWALK CLOSED
R9-9
24" X 12"
(SUBSTAGE 3A)
(FOR SOUTH LEG)

PXW

MALL ENTRANCE

ES

SUP

GAMMON RD

BIKE PATH UNDER CONSTRUCTION
- COMPLETE SUBSTAGE 3C
- IN SERVICE SUBSTAGE 3D

GAMMON RD

TXW (SUBSTAGE 3A)
PXW (STARTING SUBSTAGE 3B)

BUS

CC

SIDEWALK CLOSED
R9-9
24" X 12"

SIDEWALK CLOSED
R9-9
24" X 12"
(SUBSTAGE 3A)
(FOR SOUTH LEG)

PXW

PXW

ODANA RD

ES

BUS
(EB)

ES

BUS
(WB)

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11R
24" X 12"
(SUBSTAGES 3B THRU 3D)
(IN TERRACE)

CC (SUBSTAGE 3A)
PXW (STARTING SUBSTAGE 3B)

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - SIDEWALK OVERVIEW - SUBSTAGES 3A THRU 3D	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024967_TC-Gammon Sidewalk-3.dgn PLOT BY : kk226 PLOT DATE : 10/3/2019 PLOT SCALE : 1:100

2

N

LEGEND

- BUS — BUS STOP IN SERVICE
- EXW — EXISTING MARKED CROSSWALK IN SERVICE
- PXW — PROPOSED MARKED CROSSWALK IN SERVICE
- TXW — TEMPORARY MARKED CROSSWALK IN SERVICE
- CC — CROSSWALK CLOSED
- ES — EXISTING SIDEWALK IN SERVICE
- PS — PROPOSED SIDEWALK IN SERVICE
- SUP — PROPOSED SHARED USE PATH IN SEVICE
- TYPE II BARRICADE WITH SIGN
- TYPE III BARRICADE WITH SIGN
- FENCE SAFETY
- TEMPORARY PEDESTRIAN BARRICADE

BUS (SB)

SUP

ES

MALL ENTRANCE

PXW

ES

SUP

SIDEWALK CLOSED
R9-9
24" X 12"
(SUBSTAGE 3A)
(FOR SOUTH LEG)

MINERAL POINT RD

BUS

GAMMON RD

EXW

GAMMON RD

TXW (SUBSTAGE 3A)

PXW (STARTING SUBSTAGE 3B)

PXW

SIDEWALK CLOSED
R9-9
24" X 12"
(SUBSTAGE 3A)
(FOR SOUTH LEG)

GAMMON PL

ES

BUS

MINERAL POINT RD

ES

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11R
24" X 12"
(SUBSTAGE 3A)
(IN TERRACE)

CC (SUBSTAGE 3A)

PXW (STARTING SUBSTAGE 3B)

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - SIDEWALK OVERVIEW - SUBSTAGES 3A THRU 3D	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024968_TC-Gammon Sidewalk-3.dgn PLOT BY : kk226 PLOT DATE : 10/3/2019 PLOT SCALE : 1:100

2

N

USH 12/14

WATTS RD

GAMMON RD

SEYBOLD RD

WEST TOWNE MALL

MINERAL POINT RD

GAMMON PL

ODANA RD

PROVIDE ACCESS FROM WEST TOWNE MALL TO ROUTE 73 BUS STOP ON EB ODANA ROAD. MAINTAIN CROSSWALK ACCESS ACROSS NORTH AND EAST LEGS OF ODANA ROAD INTERSECTION AT ALL TIMES.

LEGEND:

- BUS STOP LOCATION (OPEN FOR USE AT ALL TIMES)
- ROUTE 63 (WEEKEND/HOLIDAY ONLY; EVERY 60 MINUTES)
- ROUTE 67 (DAILY, EVERY 15-60 MINUTES; ONE WAY LOOP)
- ROUTE 73 (WEEKDAYS ONLY, EVERY 30-60 MINUTES)
- (EB) OR (WB) DESIGNATES GENERAL ROUTE DIRECTION (ROUTE 63 ONLY)

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - OVERVIEW OF BUS ROUTES AND BUS STOPS	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024980_TC-Temp Bus Route OV.dgn PLOT BY : kk226 PLOT DATE : 10/3/2019 PLOT SCALE : 1:260

WEST TOWNE MALL

N

PLACE SIGNS NEXT TO EACH OTHER IN 7' WIDE TERRACE

PROPOSED MARKED CROSSWALK (BY OTHERS)

PROPOSED SIDEWALK

GAMMON RD

ODANA RD

GAMMON PL

LEGEND:

- BUS STOP LOCATION (OPEN FOR USE AT ALL TIMES)
- ROUTE 63 (WEEKEND/HOLIDAY ONLY; EVERY 60 MINUTES)
- ROUTE 67 (DAILY, EVERY 15-60 MINUTES; ONE WAY LOOP)
- ROUTE 73 (WEEKDAYS ONLY, EVERY 30-60 MINUTES)
- EB OR WB — DESIGNATES GENERAL ROUTE DIRECTION (ROUTE 63 ONLY)
- EXISTING SIDEWALK
- EXISTING MARKED CROSSWALK
- TEMPORARY SIGN
- TEMPORARY SIGNS BACK TO BACK ON THE SAME POST

SIGN LEGEND: MOUNT SIGNS ON POSTS IN TERRACE

1	2	3	4	5
(SUBSTAGES 1B THRU 1E)	(SUBSTAGE 2B)			
TO BUS STOP SB GAMMON RD ROUTES 63 & 73	TO BUS STOP EB ODANA RD ROUTES 63 & 73	M06-1 21" X 21"	M06-1 21" X 21"	M06-1 21" X 21"
R9-11 (MOD) 24" X 12"	R9-11 (MOD) 24" X 12"			

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - SIGNING FOR TEMPORARY ACCESS TO BUS STOPS	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024981_TC-Temp Bus Route OV.dgn PLOT BY : kk226 PLOT DATE : 10/16/2019 PLOT SCALE : 1:104

WISDOT/CADDS SHEET 42

N

WEST TOWNE MALL PARKING

TRAFFIC LEGEND:
VEHICULAR
PEDESTRIAN

CROSSWALK TO BE MARKED BY OTHERS

TEMPORARY PEDESTRIAN BARRICADE

PAY LIMITS FOR "TEMPORARY BUS STOP ACCESS SUBSTAGES 1B & 1C"

34+00'BD'

35+00'BD'

TEMPORARY PEDESTRIAN SURFACE

10'

5'

14'

15D30

TEMPORARY CURB RAMP

TEMPORARY PEDESTRIAN BARRICADE

TEMPORARY PEDESTRIAN BARRICADE

INITIALLY EXISTING PAVEMENT; LATER, TEMPORARY PEDESTRIAN SURFACE

10' MIN

14 X14

(TEMPORARY BUS STOP SIGN AND POLE SUPPLIED BY METRO TRANSIT)

TEMPORARY SB GAMMON RD

TEMPORARY NB GAMMON RD

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - TEMPORARY SB BUS STOP - SUBSTAGES 1B & 1C	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024990_TC-Temp SB Bus-1B1C.dgn
PLOT BY : kk226
PLOT DATE : 10/3/2019
PLOT SCALE : 1:25
WISDOT/CADDS SHEET 42

N

TRAFFIC LEGEND:
VEHICULAR
PEDESTRIAN

WEST TOWNE MALL PARKING

CROSSWALK TO BE MARKED BY OTHERS

PAY LIMITS FOR "TEMPORARY BUS STOP ACCESS SUBSTAGES 1D & 1E"

TEMPORARY PEDESTRIAN BARRICADE

34+00'BD'

35+00'BD'

PROPOSED SHARED USE PATH & BUS STOP PAD IN SERVICE

TEMPORARY CURB RAMP

15D30

10' MIN

TEMPORARY PEDESTRIAN BARRICADE

INITIALLY TEMPORARY PEDESTRIAN SURFACE; LATER, PERMANENT PAVEMENT

14 X 14

(TEMPORARY BUS STOP SIGN AND POLE SUPPLIED BY METRO TRANSIT)

TEMPORARY SB GAMMON RD

TEMPORARY NB GAMMON RD

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - TEMPORARY SB BUS STOP - SUBSTAGES 1D & 1E	SHEET 163	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024991_TC-Temp SB Bus-1D1E.dgn PLOT BY : kk226 PLOT DATE : 10/3/2019 PLOT SCALE : 1:25

WISDOT/CADDS SHEET 42

2

2

N

TEMPORARY SB GAMMON RD

(TEMPORARY BUS STOP SIGN AND POLE SUPPLIED BY METRO TRANSIT)

PAY LIMITS FOR "TEMPORARY BUS STOP ACCESS SUBSTAGES 2A, 2B, & 2C"

TEMPORARY NB GAMMON RD

MAINTAIN PEDESTRIAN ACCESS - PAID FOR AS "TEMPORARY CROSSWALK ACCESS NORTH & EAST LEGS ODANA ROAD."

INITIALLY EXISTING PAVEMENT; LATER, TEMPORARY PEDESTRIAN SURFACE

15D30

10' MIN

TEMPORARY PEDESTRIAN BARRICADE

TEMPORARY CURB RAMP

EXISTING BUS STOP PAD IN SERVICE

SUBSTAGE 2C

SUBSTAGE 2A & 2B

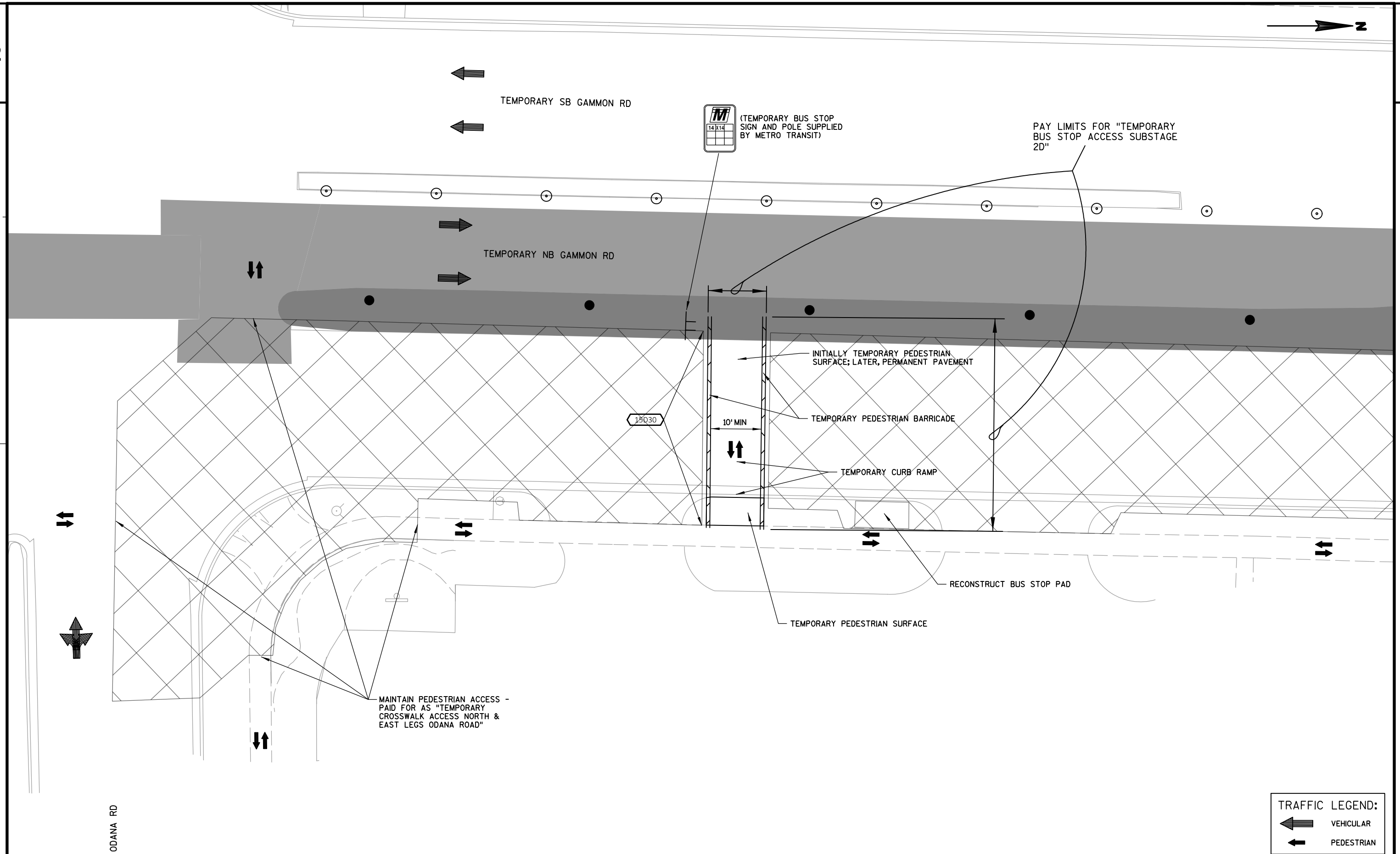
ODANA RD

TRAFFIC LEGEND:
VEHICULAR
PEDESTRIAN

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - TEMPORARY NB BUS STOP - SUBSTAGES 2A, 2B & 2C	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\024992_TC-Temp NB Bus-2A2B2C.dgn PLOT BY : kk226 PLOT DATE : 10/3/2019 PLOT SCALE : 1:20

WISDOT/CADDS SHEET 42



PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	TRAFFIC CONTROL - TEMPORARY NB BUS STOP - SUBSTAGE 2D	SHEET 165	E

2

2

LANE CLOSED
R11-2(MOD)
48" X 30"

W01-6
48" X 24"

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

LANE CLOSED
R11-2(MOD)
48" X 30"

USH 12/14 WB ON RAMP

15' SPACING (TYP)

STAGE REMOVAL AND CONSTRUCTION

25' SPACING (TYP)

50' SPACING (TYP)

GAMMON RD

198+00'NB'

200+00'NB'

202+00'NB'

204+00'NB'

206+00'NB'

208+00'NB'

210+00'NB'

TRT-4Y

TRT-8W3

TRT-4W2

TP-8W

TP-8W3

TP-4WD

TP-SL

TRT-WO

TRT-A2

TRT-4W

TRT-4WD

TRT-8W

TRT-SL

TP-4W2

TP-4Y

TP-4WD

RIGHT LANE MUST TURN RIGHT
R3-7R
30" X 30"

W1-4BR

LANE CLOSED
R11-2(MOD)
48" X 30"

LANE CLOSED
R11-2(MOD)
48" X 30"

USH 12/14 WB OFF RAMP

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 1A	SHEET 166	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025002_TC_1A.DGN

PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

2

RIGHT LANE MUST TURN RIGHT
R3-7R
30" X 30"

CROSSWALK PAVEMENT MARKING & SIGNING BY OTHERS

50' SPACING (TYP)

25' SPACING

TP-8W3

TP-4Y

TP-8W

LANE CLOSED
R11-2(MOD)
48" X 30"

WEST TOWNE MALL ENTRANCE

TRANSFORMER

TP-4W

TP-4WD

LANE CLOSED
R11-2(MOD)
48" X 30"

ONLY
R3-8G
36" X 30"

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

TP-4Y

LANE CLOSED
R11-2(MOD)
48" X 30"

WEST TOWNE MALL ENTRANCE

TP-4Y

TP-4WD

TP-8W

TP-SL

212+00'NB'

214+00'NB'

216+00'NB'

218+00'NB'

220+00'NB'

222+00'NB'

224+00'NB'

226+00'NB'

10'

11'

12'

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

TP-4WD

LANE CLOSED
R11-2(MOD)
48" X 30"

25' SPACING (TYP)

TP-4W

ODANA RD

LANE CLOSED
R11-2(MOD)
48" X 30"

TP-4WD

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

LANE CLOSED
R11-2(MOD)
48" X 30"

TP-8W

GAMMON PL

TP-4Y

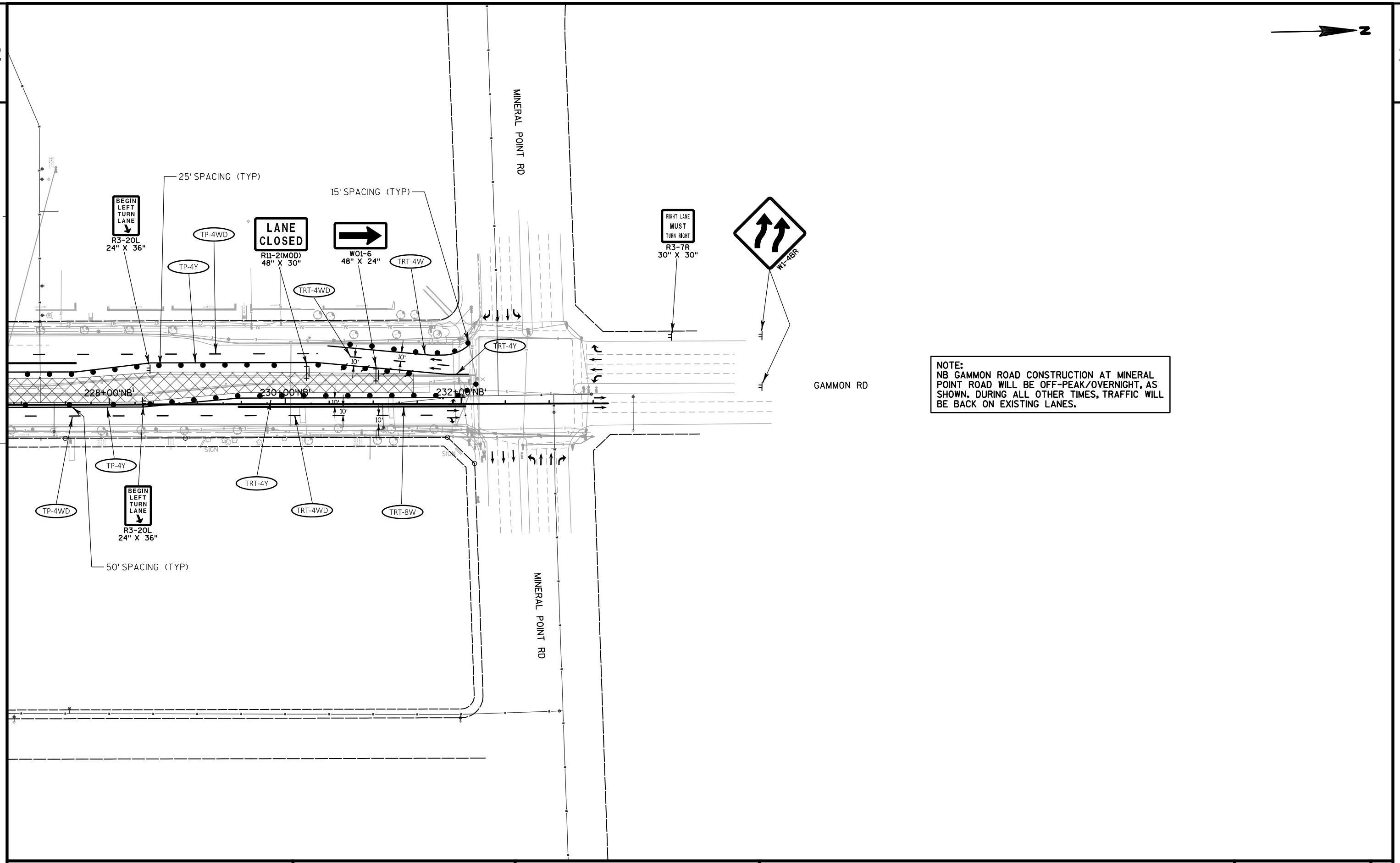
LANE CLOSED
R11-2(MOD)
48" X 30"

TP-4WD

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 1A	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025003_TC_1A.DGN PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42



NOTE:
NB GAMMON ROAD CONSTRUCTION AT MINERAL POINT ROAD WILL BE OFF-PEAK/OVERNIGHT, AS SHOWN. DURING ALL OTHER TIMES, TRAFFIC WILL BE BACK ON EXISTING LANES.

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 1A	SHEET 168	E

2

2

N

GAMMON RD

198+00'NB'

200+00'NB'

202+00'NB'

204+00'NB'

206+00'NB'

208+00'NB'

210+00'NB'

W1-6
48" X 24"

W1-6
48" X 24"

25' SPACING (TYP)

R=300'

LANE
CLOSED
R11-2(MOD)
48" X 30"

TRT-4W2

TRT-4W

TP-4Y

TP-8W

TP-4W

USH 12/14 WB ON RAMP

R=313'

50' SPACING (TYP)

TRT-A2

TRT-WO

TRT-A2

W1-4BR

RIGHT LANE
MUST
TURN RIGHT
R3-7R
30" X 30"

W06-3

LANE
CLOSED
R11-2(MOD)
48" X 30"

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

TP-8W3

TP-4WD

TP-4DY

25' SPACING (TYP)

BEGIN
RIGHT
TURN
LANE
R3-20R
24" X 36"

USH 12/14 WB OFF RAMP

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 1B	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025006_TC_1B.DGN PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

2

CROSSWALK MARKING & SIGNING IN PLACE BY OTHERS

SIDEWALK OPEN TO TEMPORARY SB BUS STOP

TP-4W

ONLY ONLY ONLY

R3-8W
54" X 30"

WEST TOWNE MALL ENTRANCE

TRANSFORMER

ROAD CLOSED
R11-2
48" X 30"

15' SPACING (TYP)

TP-4W

50' SPACING (TYP)

TP-4WD

ROAD CLOSED
R11-2
48" X 30"

WEST TOWNE MALL ENTRANCE

TP-4W

TP-4WD

TP-SL

212+00'NB'

214+00'NB'

216+00'NB'

218+00'NB'

220+00'NB'

222+00'NB'

224+00'NB'

TP-SL

226+00'NB'

10'

TP-8W

TP-4W

TP-4WD

TP-4DY

ODANA RD

TP-8W

25' SPACING (TYP)

TP-4DY

GAMMON PL

TP-8W

TP-4DY

W1-4BL

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 1B	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025007_TC_1B.DGN

PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

N

W06-3

25' SPACING (TYP)

ROAD CLOSED
R11-2
48" X 30"

W1-6
48" X 24"

MINERAL POINT RD

LANE CLOSED
R11-2(MOD)
48" X 30"

RIGHT LANE MUST TURN RIGHT
R3-7R
30" X 30"

W1-4BL

50' SPACING (TYP)

TP-4W

TP-4WD

TP-4DY

TRT-4DY

R=300'

R=300'

10'

228+00'NB'

230+00'NB'

232+00'NB'

GAMMON RD

SIGN

SIGN

TRT-4W

TP-8W

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

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

BEGIN RIGHT TURN LANE
R3-20R
24" X 36"

TRT-4WD

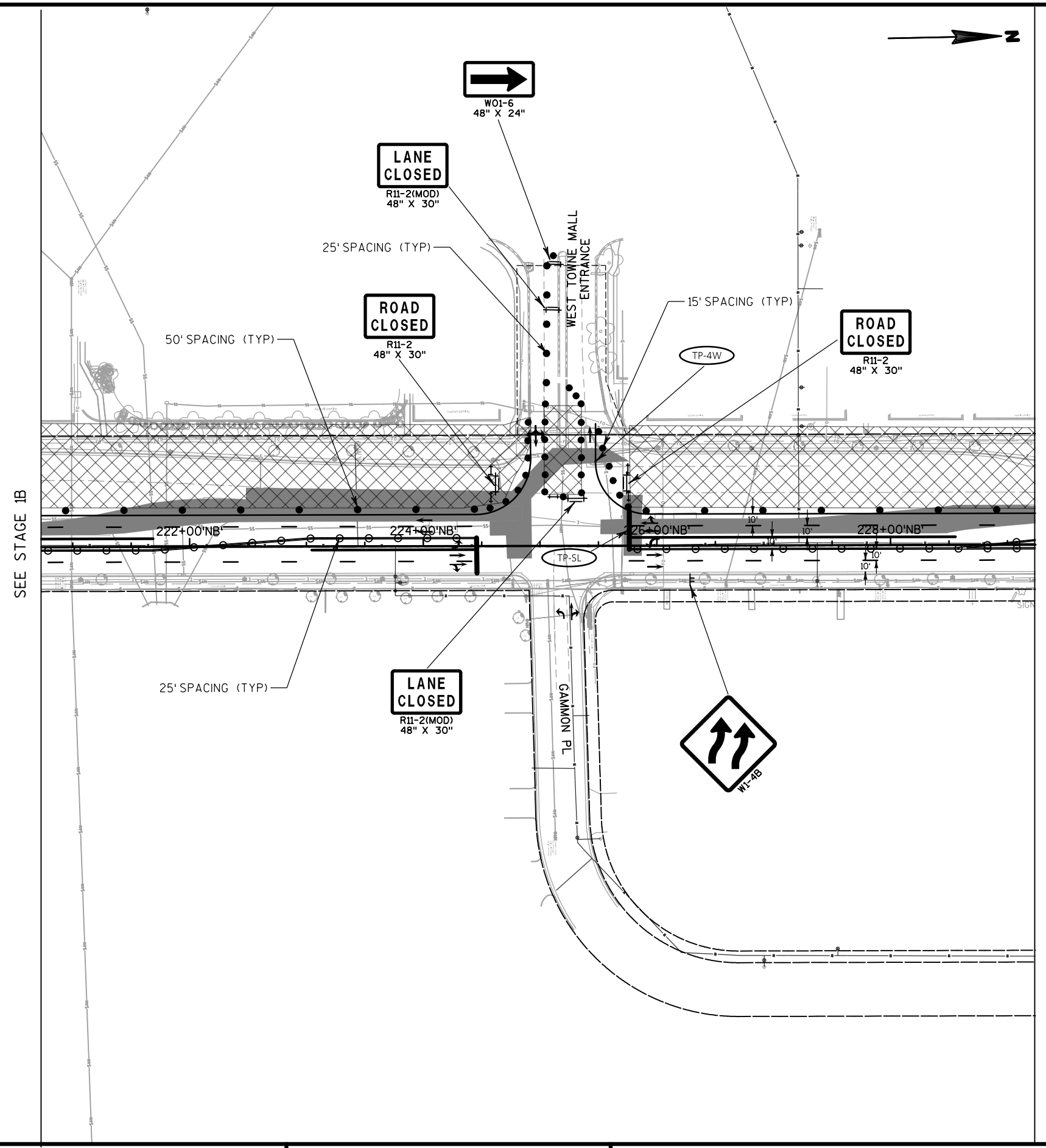
TRT-8W

15' SPACING (TYP)

25' SPACING (TYP)

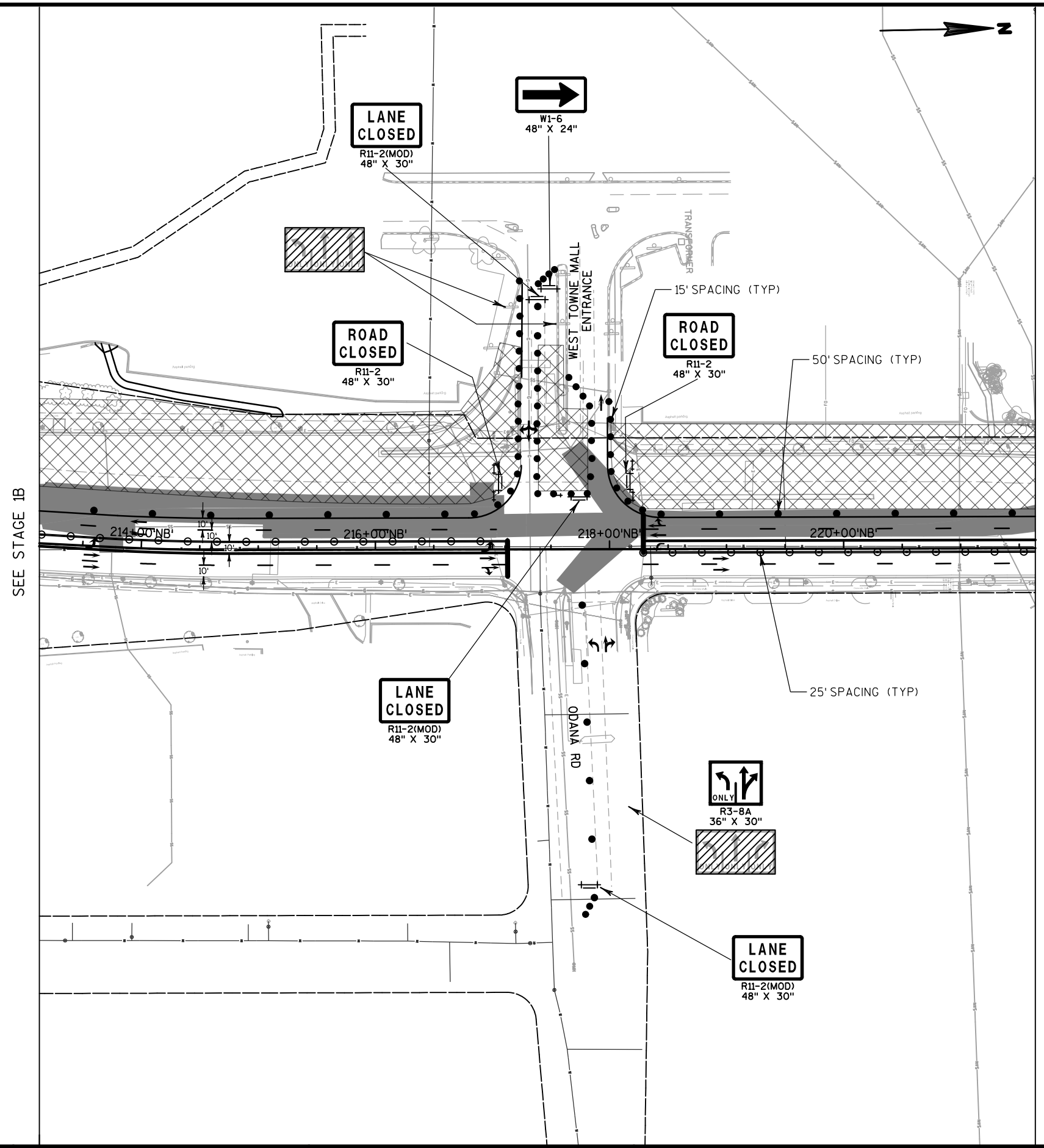
MINERAL POINT RD

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 1B	SHEET 171	E



2

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 1C	SHEET 172 E



PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 1D	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025010_TC_1D.DGN PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

2

N

USH 12/14 WB ON RAMP

W1-6
48" X 24"

LANE
CLOSED
R11-2(MOD)
48" X 30"

W1-6
48" X 24"

50' SPACING (TYP)

25' SPACING (TYP)

GAMMON RD

198+00'NB'

200+00'NB'

202+00'NB'

204+00'NB'

206+00'NB'

208+00'NB'

210+00'NB'

25' SPACING (TYP)

R=75'

15' SPACING (TYP)

TRT-A2

TRT-WO

TRT-A2

W1-4BR

RIGHT LANE
MUST
TURN RIGHT
R3-7R
30" X 30"

W4-3

LANE
CLOSED
R11-2(MOD)
48" X 30"

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

BEGIN
RIGHT
TURN
LANE
R3-20R
24" X 36"

LANE
CLOSED
R11-2(MOD)
48" X 30"

LANE
CLOSED
R11-2(MOD)
48" X 30"

USH 12/14 WB OFF RAMP

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 1E	SHEET E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025011_TC_1E.DGN PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:100

2

2

N

LANE CLOSED
R11-2(MOD)
48" X 30"

ROAD CLOSED
R11-2
48" X 30"

WEST TOWNE MALL ENTRANCE

TRANSFORMER

TP-4W

50' SPACING (TYP)

15' SPACING (TYP)

25' SPACING (TYP)

212+00'NB'

214+00'NB'

216+00'NB'

218+00'NB'

220+00'NB'

ODANA RD

SEE STAGE 1B

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 1E	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025012_TC_1E.DGN PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

2

N

LANE CLOSED
R11-2(MOD)
48" X 30"

W01-6
48" X 24"

REMOVE TEMPORARY PAVEMENT AND CONSTRUCT PERMANENT CONDITION AT THE BEGINNING OF THIS STAGE.

LANE CLOSED
R11-2(MOD)
48" X 30"

15' SPACING (TYP)

25' SPACING (TYP)

50' SPACING (TYP)

USH 12/14 WB ON RAMP

GAMMON RD

198+00'NB'

200+00'NB'

202+00'NB'

204+00'NB'

206+00'NB'

208+00'NB'

210+00'NB'

TP-SL

TP-8W

TP-8W3

TP-4WD

TP-4Y

TRT-SL

TP-SL

TRT-WO

TRT-A2

TRT-A2

RIGHT LANE MUST TURN RIGHT
R3-7R
30" X 30"

W1-4BR

LEFT TURN LANE
R3-55L
24" X 30"

TP-8W

TP-8W

TP-4W

TP-4W2

LEFT TURN LANE
R3-55L
24" X 30"

USH 12/14 WB OFF RAMP

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 1F	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025013_TC_1F.DGN

PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

N

50' SPACING (TYP)

25' SPACING (TYP)

25' SPACING (TYP)

WEST TOWNE MALL ENTRANCE

TRANSFORMER

ONLY ONLY ONLY

TP-8W3

TP-8W

TP-4WD

TP-4Y

TP-SL

TP-4W

TP-SL

TP-8W

TP-8W3

TP-4WD

TP-4Y

LEFT TURN LANE
R3-55L
24" X 30"

WEST TOWNE MALL ENTRANCE

TP-4WD

TP-4Y

TP-8W

TP-SL

212+00'NB'

214+00'NB'

216+00'NB'

218+00'NB'

220+00'NB'

222+00'NB'

224+00'NB'

226+00'NB'

10'

11'

LANE CLOSED
R11-2(MOD)
48" X 30"

ODANA RD

LEFT TURN LANE
R3-55L
24" X 30"

LANE CLOSED
R11-2(MOD)
48" X 30"

GAMMON PL

W1-4BL

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 1F	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025014_TC_1F.DGN

PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

N

MINERAL POINT RD

15' SPACING (TYP)

25' SPACING (TYP)

LEFT TURN LANE
R3-55L
24" X 30"

W01-6
48" X 24"

LANE CLOSED
R11-2(MOD)
48" X 30"

TP-8W

TP-4Y

TP-4WD

TRT-4WD

TRT-4W

TRT-4Y

RIGHT LANE MUST TURN RIGHT
R3-7R
30" X 30"

W1-4BR

GAMMON RD

228+00'NB'

230+00'NB'

232+00'NB'

10'

SIGN

TRT-4DY

LEFT TURN LANE
R3-55L
24" X 30"

W01-6
48" X 24"

RIGHT TURN LANE
R3-55R
24" X 30"

50' SPACING (TYP)

15' SPACING (TYP)

MINERAL POINT RD

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 1F	SHEET 178	E

2

2

N

LANE CLOSED
R11-2(MOD)
48" X 30"

INSTALL SHORING FOR WATER MAIN WORK PRIOR TO CONSTRUCTION OF BOX CULVERT.

LOCATE DRUMS TO PROVIDE ADEQUATE ROOM FOR LARGE TRUCKS TO NEGOTIATE CURVES WITHOUT ENCROACHING INTO THE OTHER LANE.

USH 12/14 WB ON RAMP

GAMMON RD

198+00'NB'
200+00'NB'
202+00'NB'
204+00'NB'
206+00'NB'
208+00'NB'
210+00'NB'

R=300'
R=330'

TRT-4W2
TRT-WO
TRT-A2
TRT-SL
TRT-8W

TP-4W
TP-SL
TP-8W
TP-4WD
TP-4Y

W1-4BR

RIGHT LANE MUST TURN RIGHT
R3-7R
30" X 30"

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

W24-1AR

W01-6
48" X 24"

W012-1D
24" X 24"

25' SPACING (TYP)

50' SPACING (TYP)

SIGN

USH 12/14 WB OFF RAMP

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 2A	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025016_TC_2A.DGN PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

2

N

25' SPACING (TYP)

TP-4DY

WEST TOWNE MALL ENTRANCE

TRANSFORMER

25' SPACING (TYP)

TP-4DY

ONLY ONLY
R3-8M
54" X 30"

WEST TOWNE MALL ENTRANCE

10'

TP-SL

212+00'NB'

214+00'NB'

216+00'NB'

218+00'NB'

220+00'NB'

222+00'NB'

224+00'NB'

226+00'NB'

TP-4Y

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

TP-4W

TP-8W

TP-4WD

ROAD CLOSED
R11-2
48" X 30"

R4-7
24" X 30"

15' SPACING (TYP)

ODANA RD

TP-8W

TP-4Y

ROAD CLOSED
R11-2
48" X 30"

50' SPACING (TYP)

ONLY ONLY
R3-8M
54" X 30"

TP-4W

TP-8W

TP-4WD

ROAD CLOSED
R11-2
48" X 30"

15' SPACING (TYP)

TP-4Y

GAMMON PL

TP-8W

ROAD CLOSED
R11-2
48" X 30"

W1-4BR

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 2A	SHEET 180	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025017_TC_2A.DGN

PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

N

MINERAL POINT RD

25' SPACING (TYP)

25' SPACING (TYP)

15' SPACING (TYP)

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

LANE CLOSED
R11-2(MOD)
48" X 30"

W01-6
48" X 24"

LANE CLOSED
R11-2(MOD)
48" X 30"

RIGHT LANE MUST TURN RIGHT
R3-7R
30" X 30"

W1-4BR

GAMMON RD

TP-4DY

TP-4Y

TRT-4Y

10'

228+00'NB'

230+00'NB'

232+00'NB'

R=300'

TRT-4W

TRT-4WD

TRT-8W

R=320'

TP-4W

TP-4WD

50' SPACING (TYP)

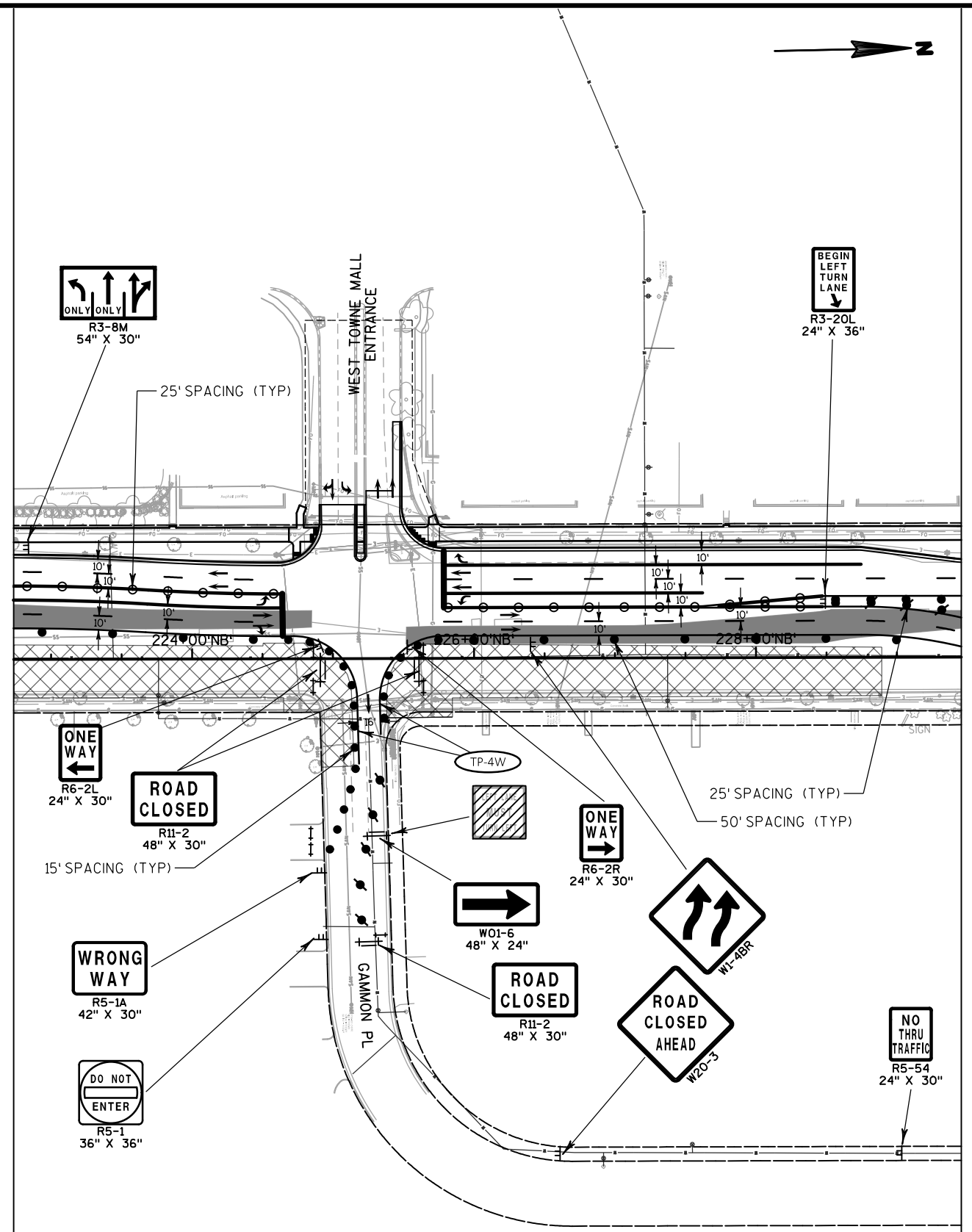
W01-6
48" X 24"

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

MINERAL POINT RD

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 2A	SHEET 181	E

SEE STAGE 2A

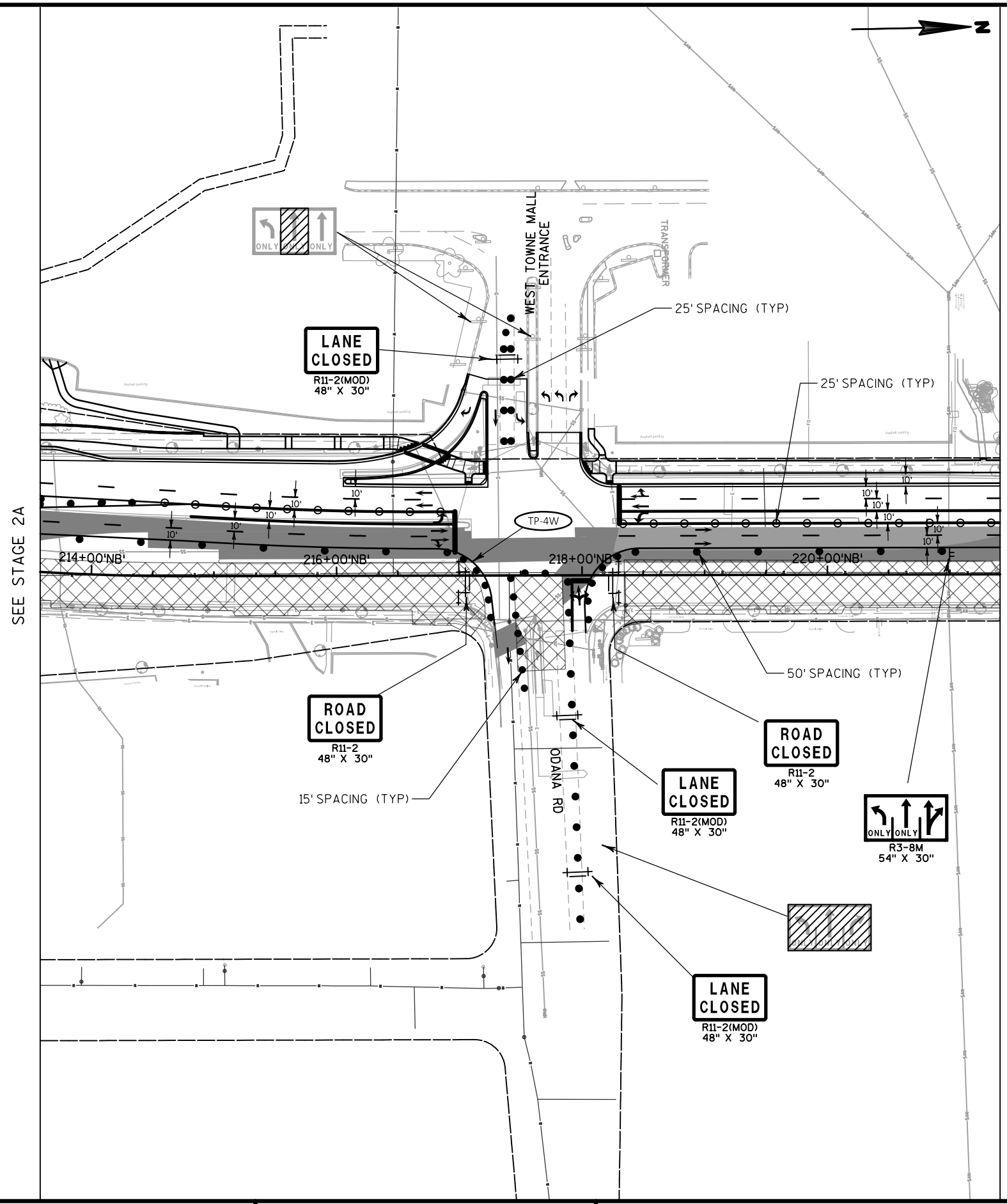


SEE STAGE 2A

2

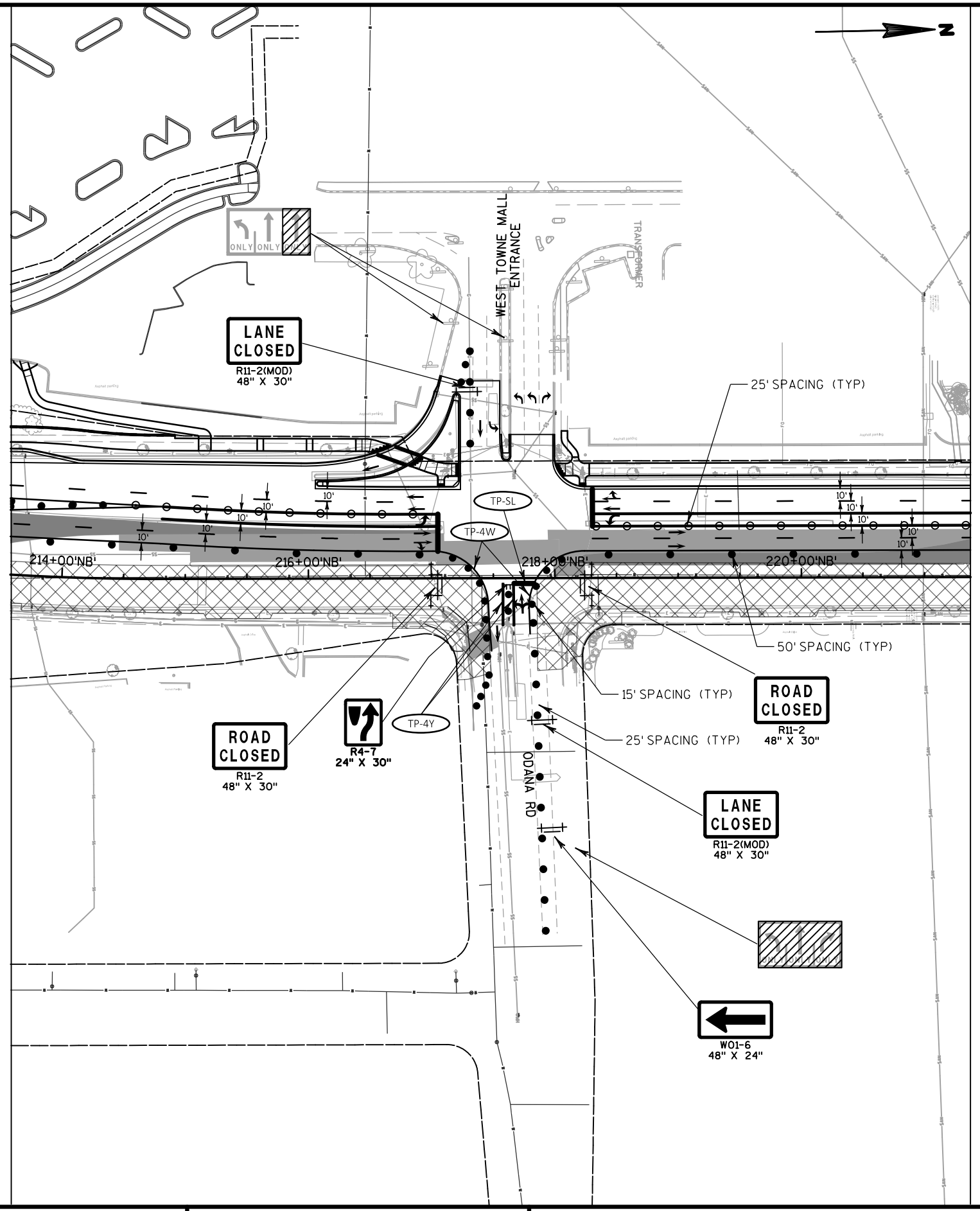
PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 2B	SHEET 182	E

2



PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 2C	SHEET 183	E

2



PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 2D	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025021_TC_2D.DGN PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:100

2

2

N

GAMMON RD

USH 12/14 WB ON RAMP

USH 12/14 WB OFF RAMP

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

LANE CLOSED
R11-2(MOD)
48" X 30"

RIGHT LANE MUST TURN RIGHT
R3-7R
30" X 30"

LANE CLOSED
R11-2(MOD)
48" X 30"

W1-4BR

50' SPACING (TYP)

W01-6
48" X 24"

W01-6
48" X 24"

198+00'NB'
200+00'NB'
202+00'NB'
204+00'NB'
206+00'NB'
208+00'NB'
210+00'NB'

TRT-A2
TRT-WO
TRT-A2
TRT-4W
TRT-4WD
TRT-8W
TRT-4W2
TRT-SL
TP-SL
TP-4W
TP-8W
TRT-8W
TRT-4W
TP-4W
TP-4WD
TP-4Y

R=300'
R=300'

11'
12'

SIGN
SIGN

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 3A	SHEET E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025022_TC_3A.DGN PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

2

N

WEST TOWNE MALL ENTRANCE

TRANSFORMER

LANE CLOSED
R11-2(MOD)
48" X 30"

25' SPACING (TYP)

WEST TOWNE MALL ENTRANCE

LANE CLOSED
R11-2(MOD)
48" X 30"

ONLY ONLY
R3-8M
54" X 30"

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

212+00'NB'
214+00'NB'
216+00'NB'
218+00'NB'
220+00'NB'
222+00'NB'
224+00'NB'
226+00'NB'

11'
10'
12'

TP-4Y
TP-8W
TP-4WD
TP-SL

ODANA RD

50' SPACING (TYP)

TP-4Y
TP-4WD
TP-SL

GAMMON PL

TP-4Y
TP-4WD

W1-4BL

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

ONLY ONLY
R3-8M
54" X 30"

25' SPACING (TYP)

R3-8K
36" X 30"

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 3A	SHEET E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025023_TC_3A.DGN PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

N

MINERAL POINT RD

LANE CLOSED
R11-2(MOD)
48" X 30"

ONLY ONLY ONLY ONLY
R3-8V
72" X 30"

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

25' SPACING (TYP)

TRT-4WD

TRT-4Y

GAMMON RD

228+00'NB'

230+00'NB'

232+00'NB'

10'
10'
10'
12'
12'
11'
11'
12'
11'
11'
12'

SIGN

SIGN

TP-4Y

TRT-4WD

TP-4WD

50' SPACING (TYP)

TRT-8W

TRT-4W

15' SPACING (TYP)

TRT-4WD

TRT-4Y

W01-6
48" X 24"

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

BEGIN RIGHT TURN LANE
R3-20R
24" X 36"

MINERAL POINT RD

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 3A	SHEET 187	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025024_TC_3A.DGN

PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:100

2

2

SEE STAGE 3A

N

USH 12/14 WB ON RAMP

GAMMON RD

LANE CLOSED
R11-2(MOD)
48" X 30"

W01-6
48" X 24"

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

LANE CLOSED
R11-2(MOD)
48" X 30"

LANE CLOSED
R11-2(MOD)
48" X 30"

50' SPACING (TYP)

TP-4Y

TP-4WD

TRT-8W3

TRT-4Y

TRT-8W

TRT-SL

202+00'NB'

204+00'NB'

206+00'NB'

208+00'NB'

210+00'NB'

212+00'NB'

214+00'NB'

216+00'NB'

R=300'

R=311'

TRT-4W2

R=322'

R=300'

TRT-WO

TRT-A2

TRT-4W

TRT-4WD

W01-6
48" X 24"

TP-8W

TP-SL

TP-8W

TRT-8W

TP-4W2

TP-4W

TP-4W

TP-4WD

TP-4Y

TP-8W

TP-4WD

TP-SL

RIGHT LANE MUST TURN RIGHT
R3-7R
30" X 30"

LANE CLOSED
R11-2(MOD)
48" X 30"

W24-1AR

R=90'

25' SPACING (TYP)

W01-6
48" X 24"

LANE CLOSED
R11-2(MOD)
48" X 30"

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

W01-6
48" X 24"

W012-1D
24" X 24"

SIGN

USH 12/14 WB OFF RAMP

NOTE:
PLACE TEMPORARY PAVEMENT MARKING AND FINAL SIGNING NORTH OF ODANA ROAD TO MATCH PERMANENT PAVEMENT MARKING.

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 3B	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025025_TC_3B.DGN
PLOT BY : kk226
PLOT DATE : 10/4/2019
PLOT SCALE : 1:100
WISDOT/CADDS SHEET 42

2

2

SEE STAGE 3A

N

USH 12/14 WB ON RAMP

LANE CLOSED
R11-2(MOD)
48" X 30"

W01-6
48" X 24"

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

25' SPACING (TYP)

R=300'

GAMMON RD

202+00'NB'

204+00'NB'

206+00'NB'

208+00'NB'

210+00'NB'

212+00'NB'

214+00'NB'

216+00'NB'

13'

11'

11'

11'

11'

11'

11'

11'

12'

R=311'

TRT-4W2

TP-SL

15' SPACING (TYP)

TP-8W

TRT-8W

TP-4W

TRT-4W

TRT-8W

TRT-WO

TRT-A2

W1-4BL

RIGHT LANE MUST TURN RIGHT
R3-7R
30" X 30"

LANE CLOSED
R11-2(MOD)
48" X 30"

W01-6
48" X 24"

W01-6
48" X 24"

LANE CLOSED
R11-2(MOD)
48" X 30"

TP-4W

TP-8W3

TP-8W

TP-4WD

50' SPACING (TYP)

SIGN

SIGN

USH 12/14 WB OFF RAMP

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 3C	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025026_TC_3C.DGN

PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

2

N

LANE CLOSED
R11-2(MOD)
48" X 30"

LANE CLOSED
R11-2(MOD)
48" X 30"

W1-4BR

W01-6
48" X 24"

USH 12/14 WB ON RAMP

50' SPACING (TYP)

25' SPACING (TYP)

GAMMON RD

200+00'NB'

202+00'NB'

204+00'NB'

206+00'NB'

208+00'NB'

210+00'NB'

212+00'NB'

214+00'NB'

TRT-SL

TRT-A2

TRT-A2

TRT-WO

RIGHT LANE MUST TURN RIGHT
R3-7R
30" X 30"

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

LANE CLOSED
R11-2(MOD)
48" X 30"

TP-4W2

TP-8W3

TP-SL

TP-8W

USH 12/14 WB OFF RAMP

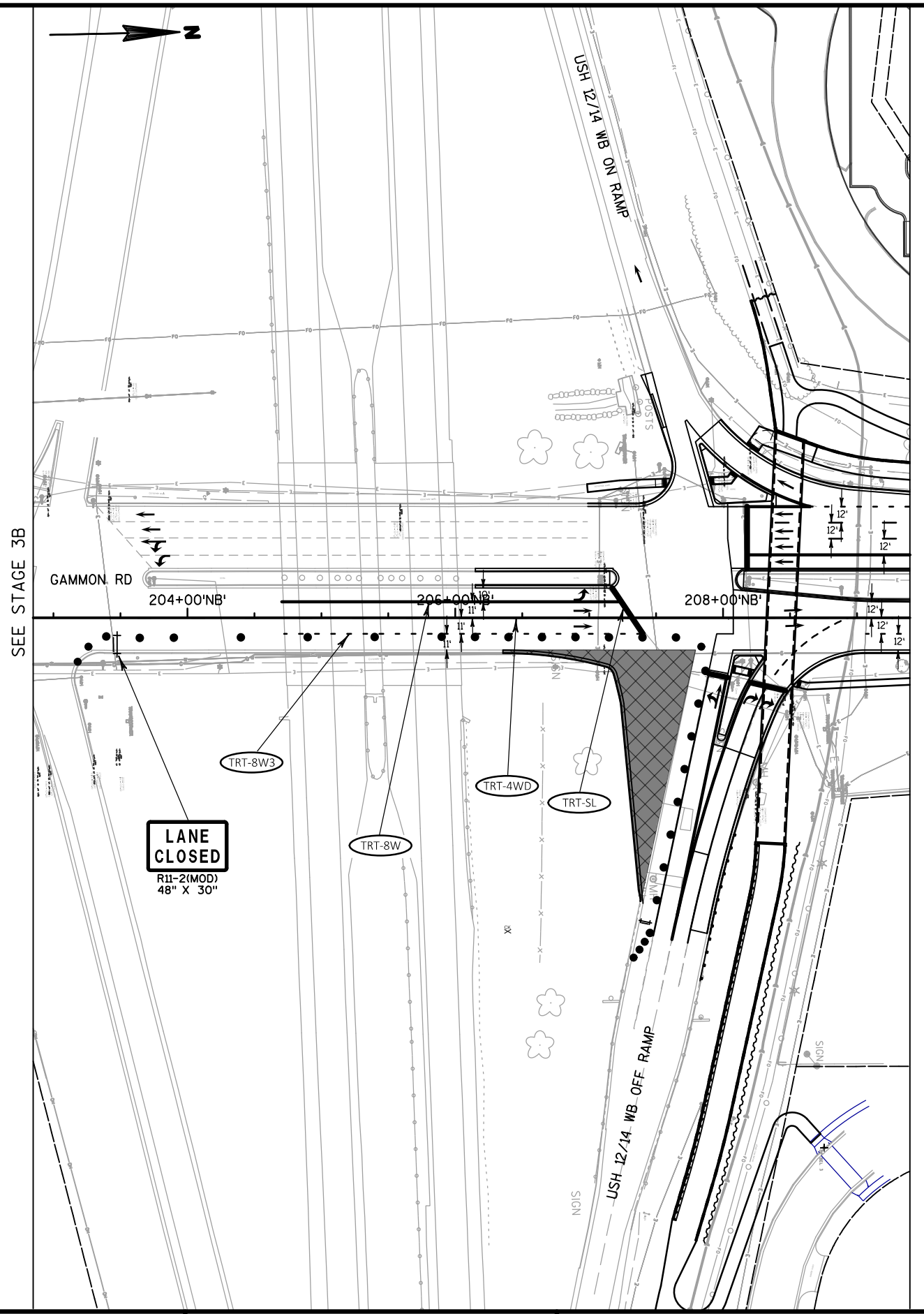
PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 3D	SHEET 190	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025027_TC_3D.DGN

PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

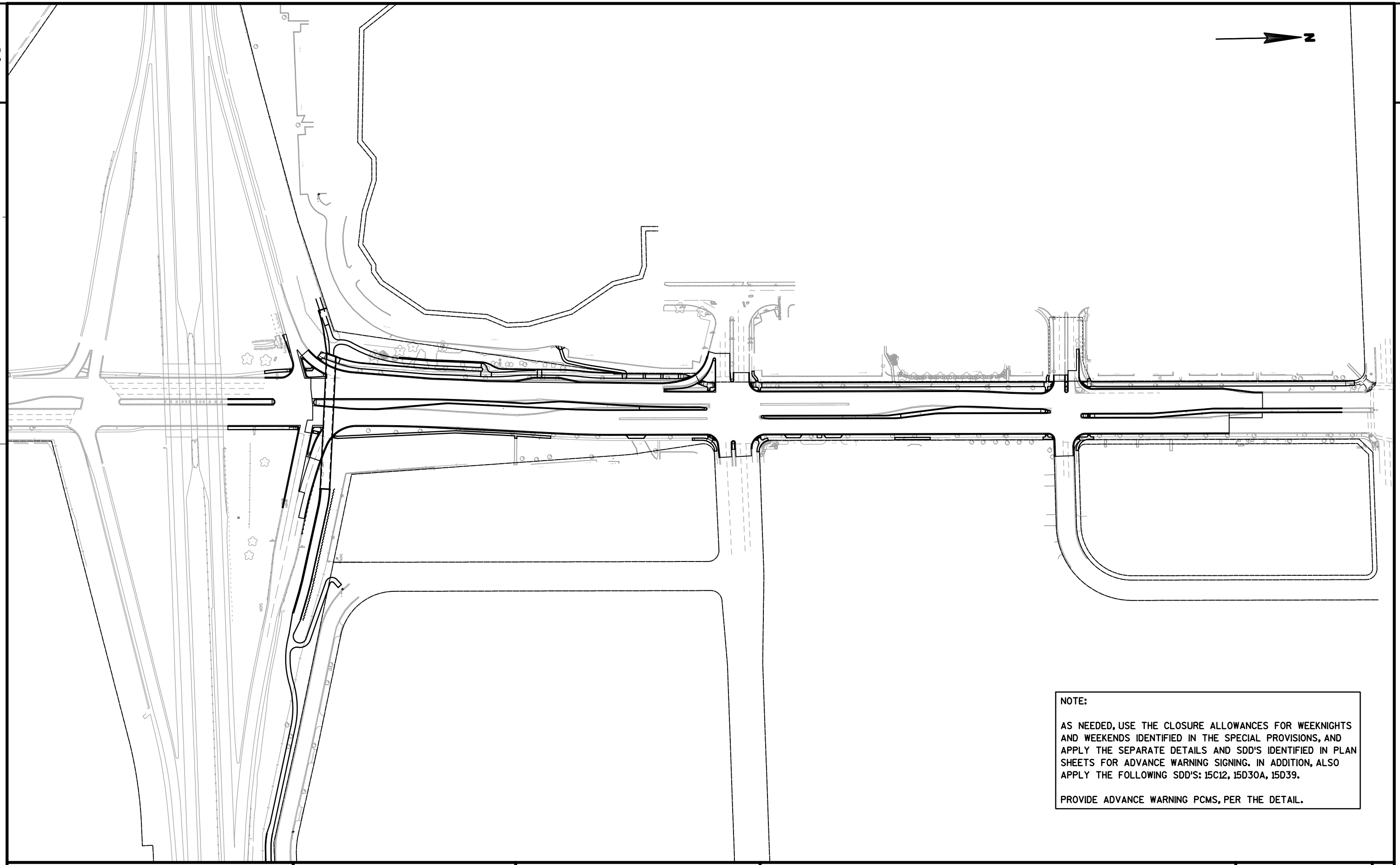


2

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - SUB-STAGE 3D	SHEET 191	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025028_TC_3D.DGN PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42



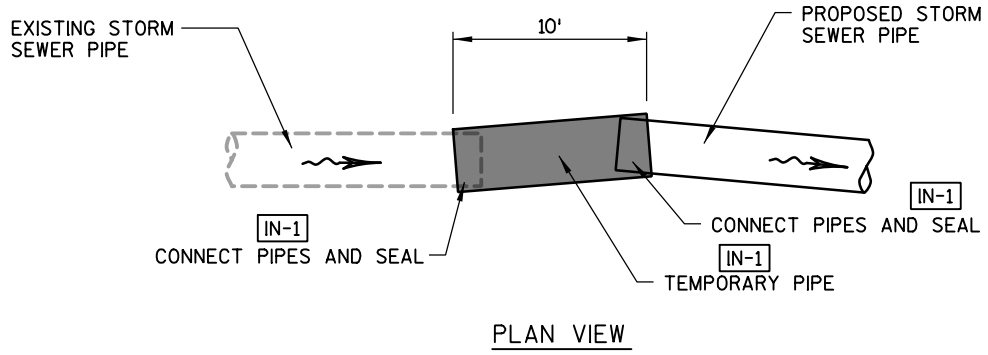
NOTE:

AS NEEDED, USE THE CLOSURE ALLOWANCES FOR WEEKNIGHTS AND WEEKENDS IDENTIFIED IN THE SPECIAL PROVISIONS, AND APPLY THE SEPARATE DETAILS AND SDD'S IDENTIFIED IN PLAN SHEETS FOR ADVANCE WARNING SIGNING. IN ADDITION, ALSO APPLY THE FOLLOWING SDD'S: 15C12, 15D30A, 15D39.

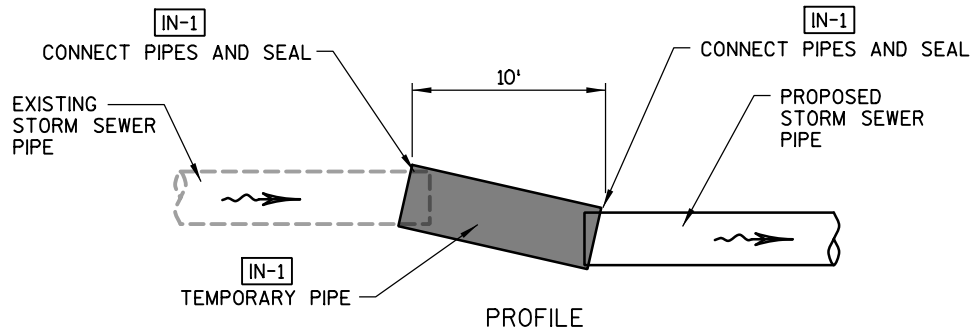
PROVIDE ADVANCE WARNING PCMS, PER THE DETAIL.

PROJECT NO: 5992-10-31/32	HWY: GAMMON RD	COUNTY: DANE	CONSTRUCTION STAGING - STAGE 4	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025029_TC_4.DGN PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:200



PLAN VIEW

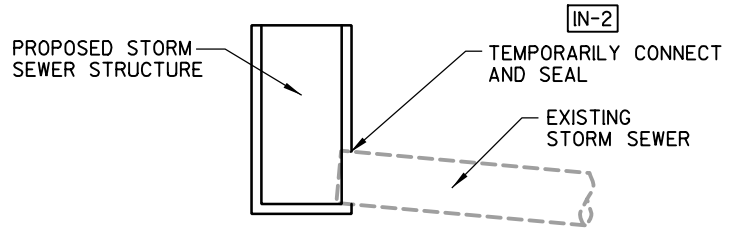


PROFILE

DETAIL FOR TEMPORARY DRAINAGE BETWEEN EXISTING STORM SEWER PIPE AND PROPOSED STORM SEWER PIPE

STAGE 1B - ALL LOCATIONS
STA 210+28'NB', 10'LT
STA 210+29'NB', 45'LT
STA 213+69'NB', 55'LT
STA 213+72'NB', 15'LT
STA 216+90'NB', 48'LT
STA 217+70'NB', 25'RT
STA 217+80'NB', 70'LT
STA 222+17'NB', 6'LT - (DRAIN FROM PROPOSED TO EXISTING STORM SEWER)

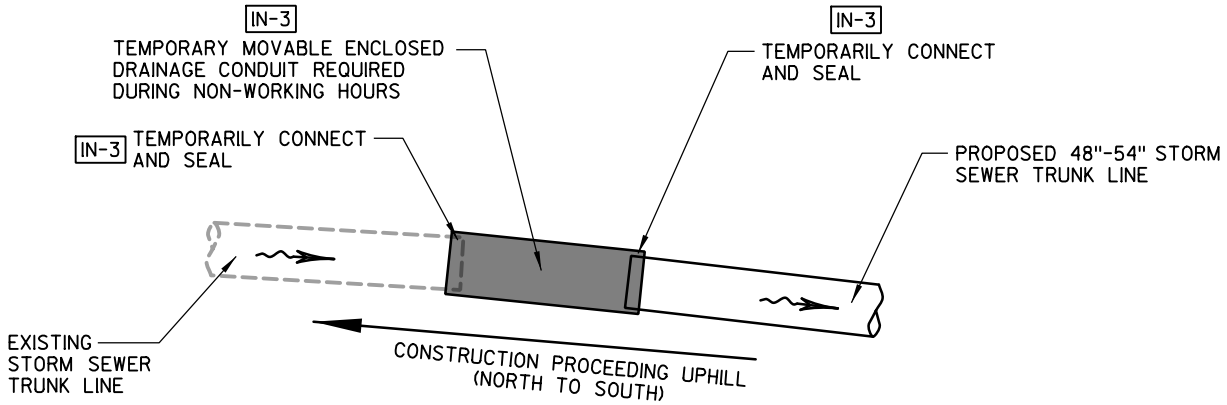
IN-1 INCIDENTAL TO "TEMPORARILY DRAIN BETWEEN EXISTING STORM SEWER PIPE AND PROPOSED STORM SEWER PIPE"



DETAIL FOR TEMPORARY DRAINAGE BETWEEN EXISTING STORM SEWER PIPE AND PROPOSED STORM SEWER STRUCTURE

STAGE 1B: STA 221+15'NB', 23'LT (DRAIN OUT OF MANHOLE)
STAGE 1B: STA 222+25'NB', 22'LT (DRAIN INTO INLET)
STAGE 2A: STA 210+33'NB', 26'RT (DRAIN INTO INLET)

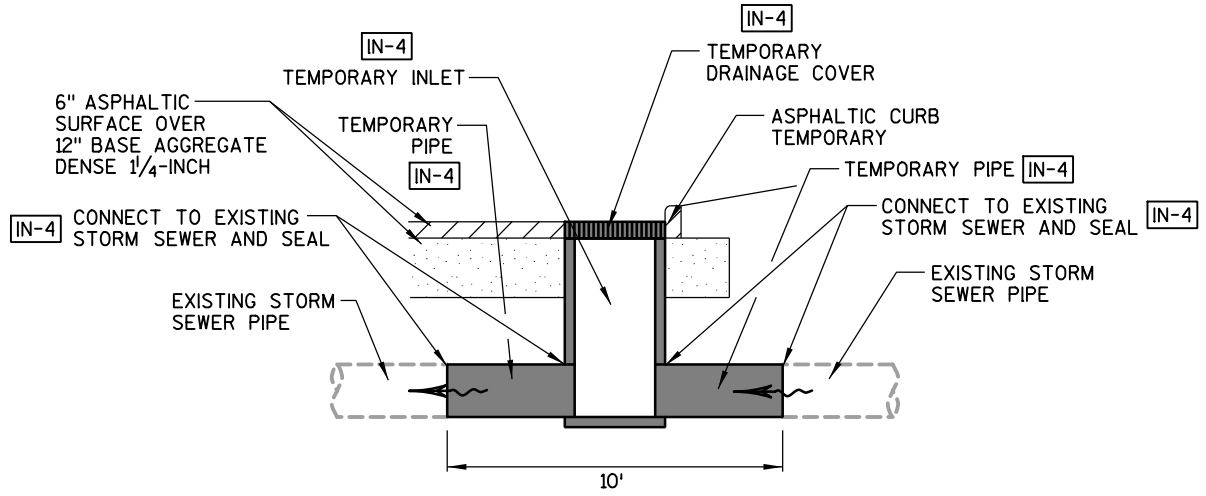
IN-2 INCIDENTAL TO "TEMPORARILY DRAIN BETWEEN EXISTING STORM SEWER PIPE AND PROPOSED STORM SEWER STRUCTURE"



DETAIL FOR MAINTAINING DRAINAGE FOR REPLACING STORM SEWER TRUNK LINE WHERE EXISTING AND PROPOSED PIPE ARE IN THE SAME LOCATION

STAGE 1A: STA 216+90'NB' TO 221+15'NB'

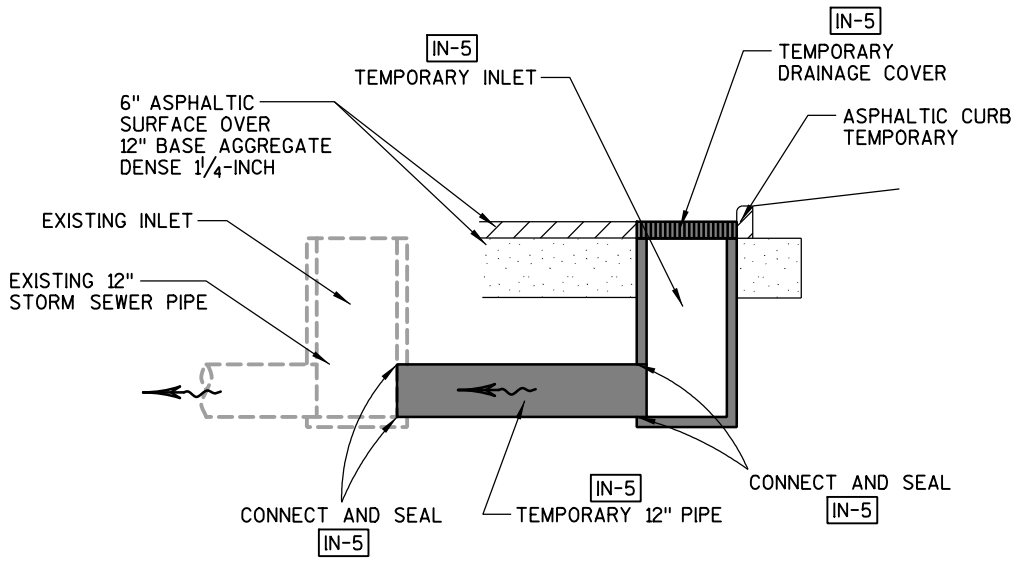
IN-3 INCIDENTAL TO "TEMPORARY MOVABLE STORM SEWER TRUNK LINE DRAINAGE CONDUIT, CONNECTED AND SEALED AT BOTH ENDS"



DETAIL FOR TEMPORARY INLET CONNECTION TO EXISTING STORM SEWER PIPE

STAGE 1B: STA 207+40'NB', 105'LT (18" PIPE)
STAGE 2A: STA 210+39'NB', 53'RT (12" PIPE)

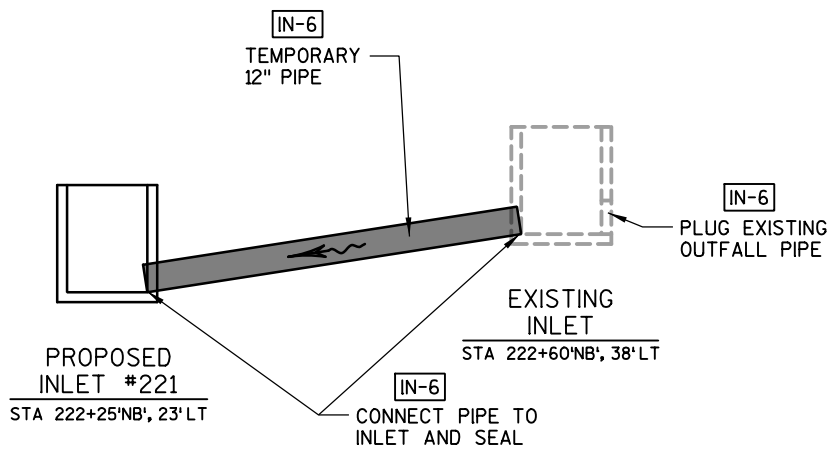
IN-4 INCIDENTAL TO "TEMPORARY INLET CONNECTION TO EXISTING STORM SEWER PIPE"



DETAIL FOR TEMPORARY INLET CONNECTION TO EXISTING INLET

STAGE 2A: STA 207+11'NB', 30'RT

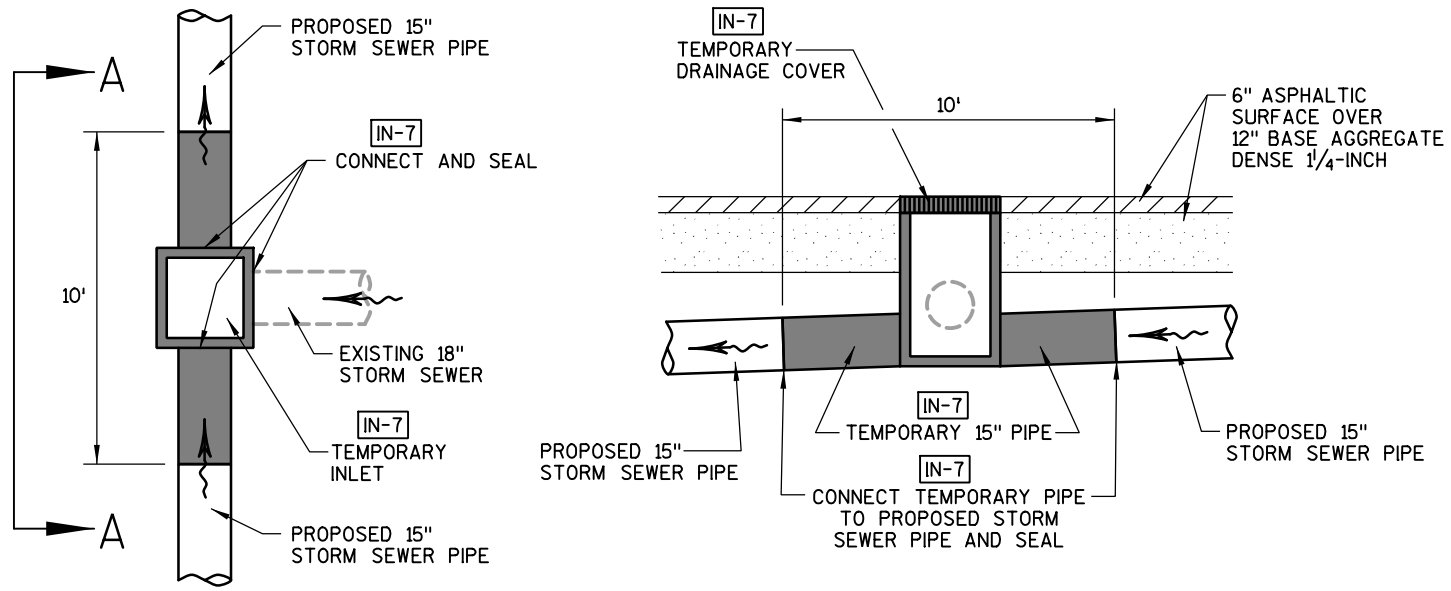
IN-5 INCIDENTAL TO "TEMPORARY INLET CONNECTION TO EXISTING INLET - STA 207+11NB"



DETAIL TO TEMPORARILY DRAIN FROM EXISTING INLET TO PROPOSED INLET

STAGE 1B

IN-6 INCIDENTAL TO "TEMPORARILY DRAIN EXISTING INLET TO PROPOSED INLET - STA 222+60NB TO STA 222+25NB"



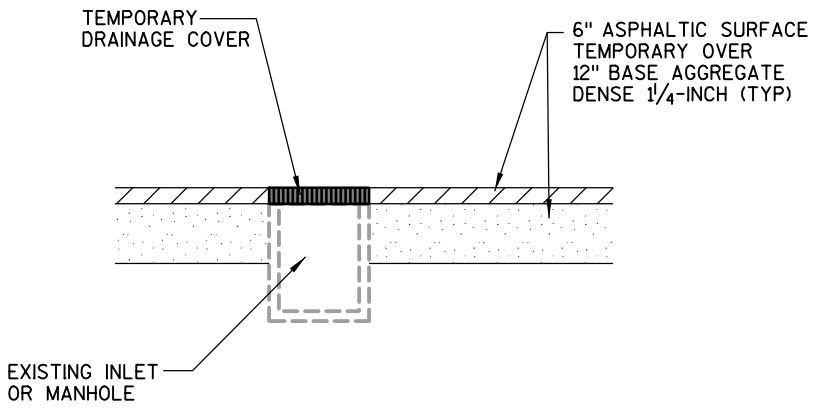
PLAN VIEW

SECTION A - A

DETAIL FOR TEMPORARY INLET CONNECTION TO EXISTING AND PROPOSED STORM SEWER

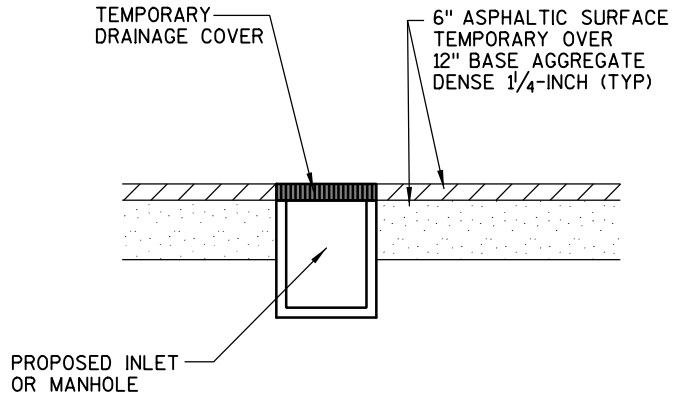
STAGE 1B - STA 224+81'NB', 17'LT

IN-7 INCIDENTAL TO "TEMPORARY INLET CONNECTION TO EXISTING AND PROPOSED STORM SEWER PIPE - STA 224+81NB"



DETAIL FOR TEMPORARY DRAINAGE COVER FOR EXISTING INLET OR MANHOLE

STAGE 1B - ALL LOCATIONS
STA 207+11'NB', 25'LT
STA 207+11'NB', 36'LT
STA 221+40'NB', 30'LT
STA 221+94'NB', 21'LT
STA 230+06'NB', 24'LT
STA 230+06'NB', 32'LT



DETAIL FOR TEMPORARY DRAINAGE COVER FOR PROPOSED INLET OR MANHOLE

STAGE	STATION	℄	OFFSET	STRUCTURE NO. FROM STORM SEWER PLAN
1B	210+28	NB	38'LT	141
1B	210+29	NB	21'LT	143
1B	213+69	NB	49'LT	151
1B	213+72	NB	31'LT	150
1B	216+90	NB	38'LT	172
1B	216+90	NB	32'LT	171
1B	218+07	NB	22'LT	180
1B	222+25	NB	22'LT	221
1B	223+00	NB	37'LT	231
1B	225+79	NB	21'LT	245
1B	225+79	NB	12'LT	244
1C	225+16	NB	78'LT	241
3B	207+91	NB	226'RT	126

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025035_TEMP DRAINAGE DETAILS.DGN
PLOT BY : kk226 PLOT DATE : 8/1/2019 PLOT SCALE : 1:200
WISDOT/CADDS SHEET 42

2

N

TC

MAINTAIN DRAINAGE FROM EXISTING TO PROPOSED STORM SEWER TRUNK LINE AS STORM SEWER REPLACEMENT PROCEEDS FROM NORTH TO SOUTH (SEE DETAIL).

WEST TOWNE MALL ENTRANCE

GAMMON RD

216+00'NB'

217+00'NB'

218+00'NB'

219+00'NB'

220+00'NB'

221+00'NB'

222+00

ODANA RD

CONSTRUCT PROPOSED MANHOLE. TEMPORARILY CONNECT TO EXISTING STORM SEWER TRUNK LINE OUTFALL (SEE DETAIL).

LEGEND:

	TEMPORARY PAVEMENT
SS MH	EXISTING STORM SEWER PIPE, INLETS, MANHOLES
	PROPOSED STORM SEWER PIPE, INLETS, MANHOLES (PERMANENT UNLESS NOTED AS TEMPORARY)
	CONCRETE BARRIER TEMPORARY PRECAST (CBTP) (ANCHOR THROUGHOUT, PER SDD 14B7d & 14B8b)
RI	RECONSTRUCT INLET
RMH	RECONSTRUCT MANHOLE
SIC	SALVAGE INLET COVER
IPC	INSTALL PERMANENT INLET OR MANHOLE COVER
TCDS	TEMPORARY COVER ON DRAINAGE STRUCTURE (SEE DETAILS FOR TEMPORARY STORM SEWER CONNECTIONS)
CPT	COVER PLATE TEMPORARY
PLUG	TEMPORARILY PLUG PIPE (INCIDENTAL TO OTHER ITEMS OF WORK)
TC	TEMPORARY STORM SEWER CONNECTION (SEE DETAIL)

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STAGE 1A - DETAILS FOR TEMPORARY DRAINAGE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025041_1A-TEMP PV and DR.DGN PLOT BY : kk226 PLOT DATE : 8/1/2019 PLOT SCALE : 1:40

2

N

WB ON-RAMP

WB OFF-RAMP

asphalt Drive

POSTS

TRANSFORMER

STA. 207+73'NB'
180' LT

STA. 207+72'NB'
109' LT

75' R

STA. 207+96'NB'
59' LT

STA. 208+31'NB'
36' LT

STA. 208+74'NB'
35' LT

STA. 208+88'NB'
31' LT

STA. 209+34'NB'
39' LT

STA. 206+15'NB'
22' LT

ASPHALTIC CURB TEMPORARY
(SEE DETAIL)

TC

CPT

TCDS

GAMMON RD

GAMMON RD

206+00'NB'

207+00'NB'

208+00'NB'

209+00'NB'

210+00'NB'

211+00'NB'

212+

Concrete Walk

LEGEND:

	TEMPORARY PAVEMENT
SS MH	EXISTING STORM SEWER PIPE, INLETS, MANHOLES
	PROPOSED STORM SEWER PIPE, INLETS, MANHOLES (PERMANENT UNLESS NOTED AS TEMPORARY)
	CONCRETE BARRIER TEMPORARY PRECAST (CBTP) (ANCHOR THROUGHOUT, PER SDD 14B7d & 14B8b)
RI	RECONSTRUCT INLET
RMH	RECONSTRUCT MANHOLE
SIC	SALVAGE INLET COVER
IPC	INSTALL PERMANENT INLET OR MANHOLE COVER
TCDS	TEMPORARY COVER ON DRAINAGE STRUCTURE (SEE DETAILS FOR TEMPORARY STORM SEWER CONNECTIONS)
CPT	COVER PLATE TEMPORARY
PLUG	TEMPORARILY PLUG PIPE (INCIDENTAL TO OTHER ITEMS OF WORK)
TC	TEMPORARY STORM SEWER CONNECTION (SEE DETAIL)

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STAGE 1B - DETAILS FOR TEMPORARY DRAINAGE	SHEET	E

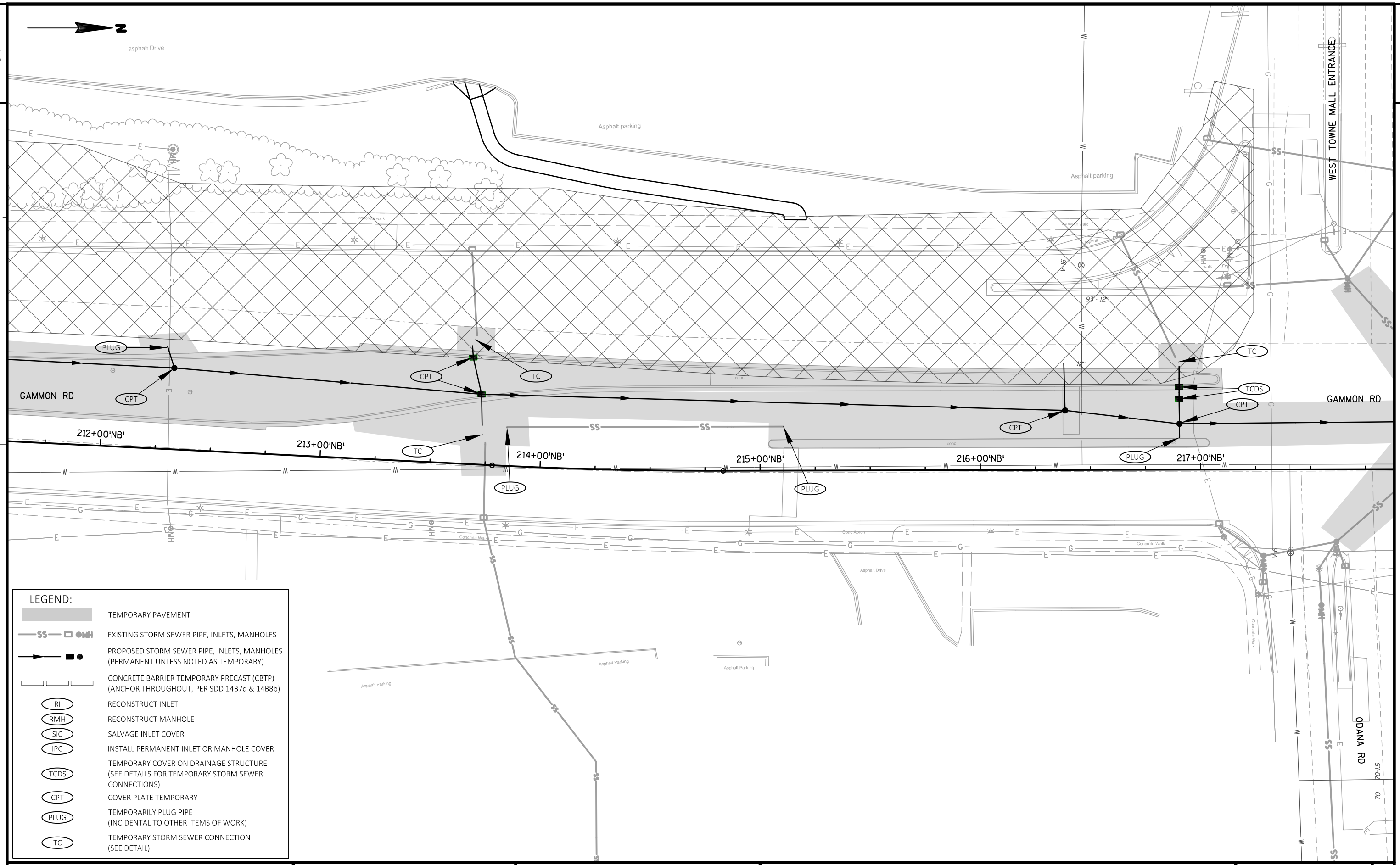
FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025050_1B-TEMP PV and DR.DGN

PLOT BY : kk226 PLOT DATE : 8/1/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

2



LEGEND:

- TEMPORARY PAVEMENT
- SS — EXISTING STORM SEWER PIPE, INLETS, MANHOLES
- PROPOSED STORM SEWER PIPE, INLETS, MANHOLES (PERMANENT UNLESS NOTED AS TEMPORARY)
- CONCRETE BARRIER TEMPORARY PRECAST (CBTP) (ANCHOR THROUGHOUT, PER SDD 14B7d & 14B8b)
- RI — RECONSTRUCT INLET
- RMH — RECONSTRUCT MANHOLE
- SIC — SALVAGE INLET COVER
- IPC — INSTALL PERMANENT INLET OR MANHOLE COVER
- TCDS — TEMPORARY COVER ON DRAINAGE STRUCTURE (SEE DETAILS FOR TEMPORARY STORM SEWER CONNECTIONS)
- CPT — COVER PLATE TEMPORARY
- PLUG — TEMPORARILY PLUG PIPE (INCIDENTAL TO OTHER ITEMS OF WORK)
- TC — TEMPORARY STORM SEWER CONNECTION (SEE DETAIL)

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STAGE 1B - DETAILS FOR TEMPORARY DRAINAGE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025051_1B-TEMP PV and DR.DGN PLOT BY : kk226 PLOT DATE : 8/1/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

N

WEST TOWNE MALL ENTRANCE

GAMMON RD

ODANA RD

Asphalt parking

Asphalt parking

Asphalt parking

Concrete Walk

Asphalt Drive

Conc Apron

TRANSFORMER

218+00'NB'

219+00'NB'

220+00'NB'

221+00'NB'

222+00'NB'

223+00'NB'

TC

TCDS

CPT

PLUG

LEGEND:

- TEMPORARY PAVEMENT
- EXISTING STORM SEWER PIPE, INLETS, MANHOLES
- PROPOSED STORM SEWER PIPE, INLETS, MANHOLES (PERMANENT UNLESS NOTED AS TEMPORARY)
- CONCRETE BARRIER TEMPORARY PRECAST (CBTP) (ANCHOR THROUGHOUT, PER SDD 14B7d & 14B8b)
- RI — RECONSTRUCT INLET
- RMH — RECONSTRUCT MANHOLE
- SIC — SALVAGE INLET COVER
- IPC — INSTALL PERMANENT INLET OR MANHOLE COVER
- TCDS — TEMPORARY COVER ON DRAINAGE STRUCTURE (SEE DETAILS FOR TEMPORARY STORM SEWER CONNECTIONS)
- CPT — COVER PLATE TEMPORARY
- PLUG — TEMPORARILY PLUG PIPE (INCIDENTAL TO OTHER ITEMS OF WORK)
- TC — TEMPORARY STORM SEWER CONNECTION (SEE DETAIL)

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STAGE 1B - DETAILS FOR TEMPORARY DRAINAGE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025052_1B-TEMP PV and DR.DGN

PLOT BY : kk226 PLOT DATE : 8/1/2019 PLOT SCALE : 1:40

2

WEST TOWNE MALL ENTRANCE

GAMMON RD

GAMMON RD

GAMMON PL

224+00'NB'

225+00'NB'

226+00'NB'

227+00'NB'

228+00'NB'

229+00'NB'

CPT

PLUG

PLUG

TCDS

CPT

PLUG

PLUG

TC

SIGN

Asphalt parking

asphalt parking

Concrete Walk

LEGEND:

	TEMPORARY PAVEMENT
SS MH	EXISTING STORM SEWER PIPE, INLETS, MANHOLES
	PROPOSED STORM SEWER PIPE, INLETS, MANHOLES (PERMANENT UNLESS NOTED AS TEMPORARY)
	CONCRETE BARRIER TEMPORARY PRECAST (CBTP) (ANCHOR THROUGHOUT, PER SDD 14B7d & 14B8b)
RI	RECONSTRUCT INLET
RMH	RECONSTRUCT MANHOLE
SIC	SALVAGE INLET COVER
IPC	INSTALL PERMANENT INLET OR MANHOLE COVER
TCDS	TEMPORARY COVER ON DRAINAGE STRUCTURE (SEE DETAILS FOR TEMPORARY STORM SEWER CONNECTIONS)
CPT	COVER PLATE TEMPORARY
PLUG	TEMPORARILY PLUG PIPE (INCIDENTAL TO OTHER ITEMS OF WORK)
TC	TEMPORARY STORM SEWER CONNECTION (SEE DETAIL)

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STAGE 1B - DETAILS FOR TEMPORARY DRAINAGE	SHEET 200	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025053_1B-TEMP PV and DR.DGN

PLOT BY : kk226 PLOT DATE : 8/1/2019 PLOT SCALE : 1:40

2

N

MINERAL POINT RD

GAMMON RD

TCDS

229+00'NB'

230+00'NB'

231+00'NB'

232+00'NB'

233+00'NB'

PLUGGED

SIGN

SIGN

MINERAL POINT RD

LEGEND:

	TEMPORARY PAVEMENT
SS MH	EXISTING STORM SEWER PIPE, INLETS, MANHOLES
	PROPOSED STORM SEWER PIPE, INLETS, MANHOLES (PERMANENT UNLESS NOTED AS TEMPORARY)
	CONCRETE BARRIER TEMPORARY PRECAST (CBTP) (ANCHOR THROUGHOUT, PER SDD 14B7d & 14B8b)
RI	RECONSTRUCT INLET
RMH	RECONSTRUCT MANHOLE
SIC	SALVAGE INLET COVER
IPC	INSTALL PERMANENT INLET OR MANHOLE COVER
TCDS	TEMPORARY COVER ON DRAINAGE STRUCTURE (SEE DETAILS FOR TEMPORARY STORM SEWER CONNECTIONS)
CPT	COVER PLATE TEMPORARY
PLUG	TEMPORARILY PLUG PIPE (INCIDENTAL TO OTHER ITEMS OF WORK)
TC	TEMPORARY STORM SEWER CONNECTION (SEE DETAIL)

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STAGE 1B - DETAILS FOR TEMPORARY DRAINAGE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025054_1B-TEMP PV and DR.DGN PLOT BY : kk226 PLOT DATE : 8/1/2019 PLOT SCALE : 1:40

LEGEND:

- TEMPORARY PAVEMENT
- SS — □ ●MH — EXISTING STORM SEWER PIPE, INLETS, MANHOLES
- PROPOSED STORM SEWER PIPE, INLETS, MANHOLES (PERMANENT UNLESS NOTED AS TEMPORARY)
- CONCRETE BARRIER TEMPORARY PRECAST (CBTP) (ANCHOR THROUGHOUT, PER SDD 14B7d & 14B8b)
- RI — RECONSTRUCT INLET
- RMH — RECONSTRUCT MANHOLE
- SIC — SALVAGE INLET COVER
- IPC — INSTALL PERMANENT INLET OR MANHOLE COVER
- TCDS — TEMPORARY COVER ON DRAINAGE STRUCTURE (SEE DETAILS FOR TEMPORARY STORM SEWER CONNECTIONS)
- CPT — COVER PLATE TEMPORARY
- PLUG — TEMPORARILY PLUG PIPE (INCIDENTAL TO OTHER ITEMS OF WORK)
- TC — TEMPORARY STORM SEWER CONNECTION (SEE DETAIL)

WEST TOWNE MALL ENTRANCE

GAMMON RD

GAMMON PL

TCDS

CPT

PLUG

PLUG

223+00'NB'

224+00'NB'

225+00'NB'

226+00'NB'

227+00'NB'

228+00'NB'

Asphalt parking

Concrete Walk

TRANSFORMER

GV

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STAGE 1C - DETAILS FOR TEMPORARY DRAINAGE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025055_1C-TEMP PV and DR.DGN

PLOT BY : kk226 PLOT DATE : 8/1/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

N

REMOVE STORM SEWER

REMOVE INLET

ABANDON STORM SEWER

WEST TOWNE MALL ENTRANCE

LEGEND:

	TEMPORARY PAVEMENT
SS MH	EXISTING STORM SEWER PIPE, INLETS, MANHOLES
	PROPOSED STORM SEWER PIPE, INLETS, MANHOLES (PERMANENT UNLESS NOTED AS TEMPORARY)
	CONCRETE BARRIER TEMPORARY PRECAST (CBTP) (ANCHOR THROUGHOUT, PER SDD 14B7d & 1488b)
RI	RECONSTRUCT INLET
RMH	RECONSTRUCT MANHOLE
SIC	SALVAGE INLET COVER
IPC	INSTALL PERMANENT INLET OR MANHOLE COVER
TCDS	TEMPORARY COVER ON DRAINAGE STRUCTURE (SEE DETAILS FOR TEMPORARY STORM SEWER CONNECTIONS)
CPT	COVER PLATE TEMPORARY
PLUG	TEMPORARILY PLUG PIPE (INCIDENTAL TO OTHER ITEMS OF WORK)
TC	TEMPORARY STORM SEWER CONNECTION (SEE DETAIL)

GAMMON RD

215+00'NB'

216+00'NB'

217+00'NB'

218+00'NB'

219+00'NB'

220+00'NB'

PLUG

PLUG

ODANA RD

TRANSFORMER

Asphalt parking

Asphalt Drive

Asphalt Parking

Conc Apron

Concrete Walk

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STAGE 1D - DETAILS FOR TEMPORARY DRAINAGE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025056_1D-TEMP PV and DR.DGN PLOT BY : kk226 PLOT DATE : 8/1/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

N

WEST TOWNE MALL ENTRANCE

ABANDONED STORM SEWER

LEGEND:

	TEMPORARY PAVEMENT
SS MH	EXISTING STORM SEWER PIPE, INLETS, MANHOLES
	PROPOSED STORM SEWER PIPE, INLETS, MANHOLES (PERMANENT UNLESS NOTED AS TEMPORARY)
	CONCRETE BARRIER TEMPORARY PRECAST (CBTP) (ANCHOR THROUGHOUT, PER SDD 14B7d & 14B8b)
RI	RECONSTRUCT INLET
RMH	RECONSTRUCT MANHOLE
SIC	SALVAGE INLET COVER
IPC	INSTALL PERMANENT INLET OR MANHOLE COVER
TCDS	TEMPORARY COVER ON DRAINAGE STRUCTURE (SEE DETAILS FOR TEMPORARY STORM SEWER CONNECTIONS)
CPT	COVER PLATE TEMPORARY
PLUG	TEMPORARILY PLUG PIPE (INCIDENTAL TO OTHER ITEMS OF WORK)
TC	TEMPORARY STORM SEWER CONNECTION (SEE DETAIL)

Asphalt parking

Asphalt parking

Asphalt parking

GAMMON RD

GAMMON RD

215+00'NB'

216+00'NB'

217+00'NB'

218+00'NB'

219+00'NB'

220+00'NB'

PLUG

PLUG

Conc Apron

Concrete Walk

Asphalt Drive

Asphalt Parking

TRANSFORMER

ODANA RD

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STAGE 1E - DETAILS FOR TEMPORARY DRAINAGE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025057_1E-TEMP PV and DR.DGN PLOT BY : kk226 PLOT DATE : 8/1/2019 PLOT SCALE : 1:40

2

WB ON-RAMP

asphalt Drive

GAMMON RD

GAMMON RD

STA. 208+06'NB'
57'LT

STA. 208+77'NB'
57'LT

STA. 210+28'NB'
33'LT

SIC

TCDS

PLUG

TCDS

206+00'NB'

207+00'NB'

208+00'NB'

209+00'NB'

210+00'NB'

211+00'NB'

212+

CONSTRUCT STORM SEWER OVERNIGHT
UNDER SINGLE-LANE NB TRAFFIC

CONSTRUCT TEMPORARY
DRAINAGE CONNECTION

WB OFF-RAMP

LEGEND:

	TEMPORARY PAVEMENT
SS MH	EXISTING STORM SEWER PIPE, INLETS, MANHOLES
	PROPOSED STORM SEWER PIPE, INLETS, MANHOLES (PERMANENT UNLESS NOTED AS TEMPORARY)
	CONCRETE BARRIER TEMPORARY PRECAST (CBTP) (ANCHOR THROUGHOUT, PER SDD 14B7d & 14B8b)
RI	RECONSTRUCT INLET
RMH	RECONSTRUCT MANHOLE
SIC	SALVAGE INLET COVER
IPC	INSTALL PERMANENT INLET OR MANHOLE COVER
TCDS	TEMPORARY COVER ON DRAINAGE STRUCTURE (SEE DETAILS FOR TEMPORARY STORM SEWER CONNECTIONS)
CPT	COVER PLATE TEMPORARY
PLUG	TEMPORARILY PLUG PIPE (INCIDENTAL TO OTHER ITEMS OF WORK)
TC	TEMPORARY STORM SEWER CONNECTION (SEE DETAIL)

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STAGE 1F - DETAILS FOR TEMPORARY DRAINAGE	SHEET 205	E

2

N

WB ON-RAMP

REPLACE TEMPORARY INLET WITH PERMANENT STORM SEWER (SEE CONSTRUCTION DETAIL)

TCDS

GAMMON RD

STA. 208+06'NB' 57'LT

STA. 208+77'NB' 57'LT

STA. 207+74'NB' 23'LT

STA. 210+28'NB' 33'LT

305'R

29'R

206+00'NB' 207+00'NB' 208+00'NB' 209+00'NB' 210+00'NB' 211+00'NB' 212+

STA. 207+77'NB' 29'RT

STA. 209+11'NB' 32'RT

TC CPT PLUG RMH

ASPHALTIC CURB TEMPORARY (SEE DETAIL)

WB OFF-RAMP

asphalt Drive

POSTS

TRANSFORMER

concrete walk

Concrete Walk

conc

LEGEND:

- TEMPORARY PAVEMENT
- EXISTING STORM SEWER PIPE, INLETS, MANHOLES
- PROPOSED STORM SEWER PIPE, INLETS, MANHOLES (PERMANENT UNLESS NOTED AS TEMPORARY)
- CONCRETE BARRIER TEMPORARY PRECAST (CBTP) (ANCHOR THROUGHOUT, PER SDD 14B7d & 14B8b)
- RI — RECONSTRUCT INLET
- RMH — RECONSTRUCT MANHOLE
- SIC — SALVAGE INLET COVER
- IPC — INSTALL PERMANENT INLET OR MANHOLE COVER
- TCDS — TEMPORARY COVER ON DRAINAGE STRUCTURE (SEE DETAILS FOR TEMPORARY STORM SEWER CONNECTIONS)
- CPT — COVER PLATE TEMPORARY
- PLUG — TEMPORARILY PLUG PIPE (INCIDENTAL TO OTHER ITEMS OF WORK)
- TC — TEMPORARY STORM SEWER CONNECTION (SEE DETAIL)

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STAGE 2A - DETAILS FOR TEMPORARY DRAINAGE	SHEET 206	E

2

2

N

asphalt Drive

Asphalt parking

Asphalt parking

WEST TOWNE MALL ENTRANCE

ABANDONED
STORM SEWER

GAMMON RD

GAMMON RD

PLUG

PLUG

212+00'NB'

213+00'NB'

214+00'NB'

215+00'NB'

216+00'NB'

217+00'NB'

218+00

ASPHALTIC CURB
TEMPORARY (SEE DETAIL)

Asphalt Parking

Asphalt Parking

Asphalt Parking

Asphalt Drive

ODANA RD

LEGEND:

	TEMPORARY PAVEMENT
SS MH	EXISTING STORM SEWER PIPE, INLETS, MANHOLES
	PROPOSED STORM SEWER PIPE, INLETS, MANHOLES (PERMANENT UNLESS NOTED AS TEMPORARY)
	CONCRETE BARRIER TEMPORARY PRECAST (CBTP) (ANCHOR THROUGHOUT, PER SDD 14B7d & 14B8b)
RI	RECONSTRUCT INLET
RMH	RECONSTRUCT MANHOLE
SIC	SALVAGE INLET COVER
IPC	INSTALL PERMANENT INLET OR MANHOLE COVER
TCDS	TEMPORARY COVER ON DRAINAGE STRUCTURE (SEE DETAILS FOR TEMPORARY STORM SEWER CONNECTIONS)
CPT	COVER PLATE TEMPORARY
PLUG	TEMPORARILY PLUG PIPE (INCIDENTAL TO OTHER ITEMS OF WORK)
TC	TEMPORARY STORM SEWER CONNECTION (SEE DETAIL)

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STAGE 2A - DETAILS FOR TEMPORARY DRAINAGE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025071_2A-TEMP PV and DR.DGN

PLOT BY : kk226 PLOT DATE : 8/1/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

N

WEST TOWNE MALL ENTRANCE

GAMMON RD

GAMMON RD

REMOVE STORM SEWER

ABANDON STORM SEWER

TC

PLUG

ODANA RD

218+00'NB'

219+00'NB'

220+00'NB'

221+00'NB'

222+00'NB'

223+00'NB'

Asphalt parking

Asphalt parking

Asphalt parking

concrete walk

Concrete Walk

Asphalt Drive

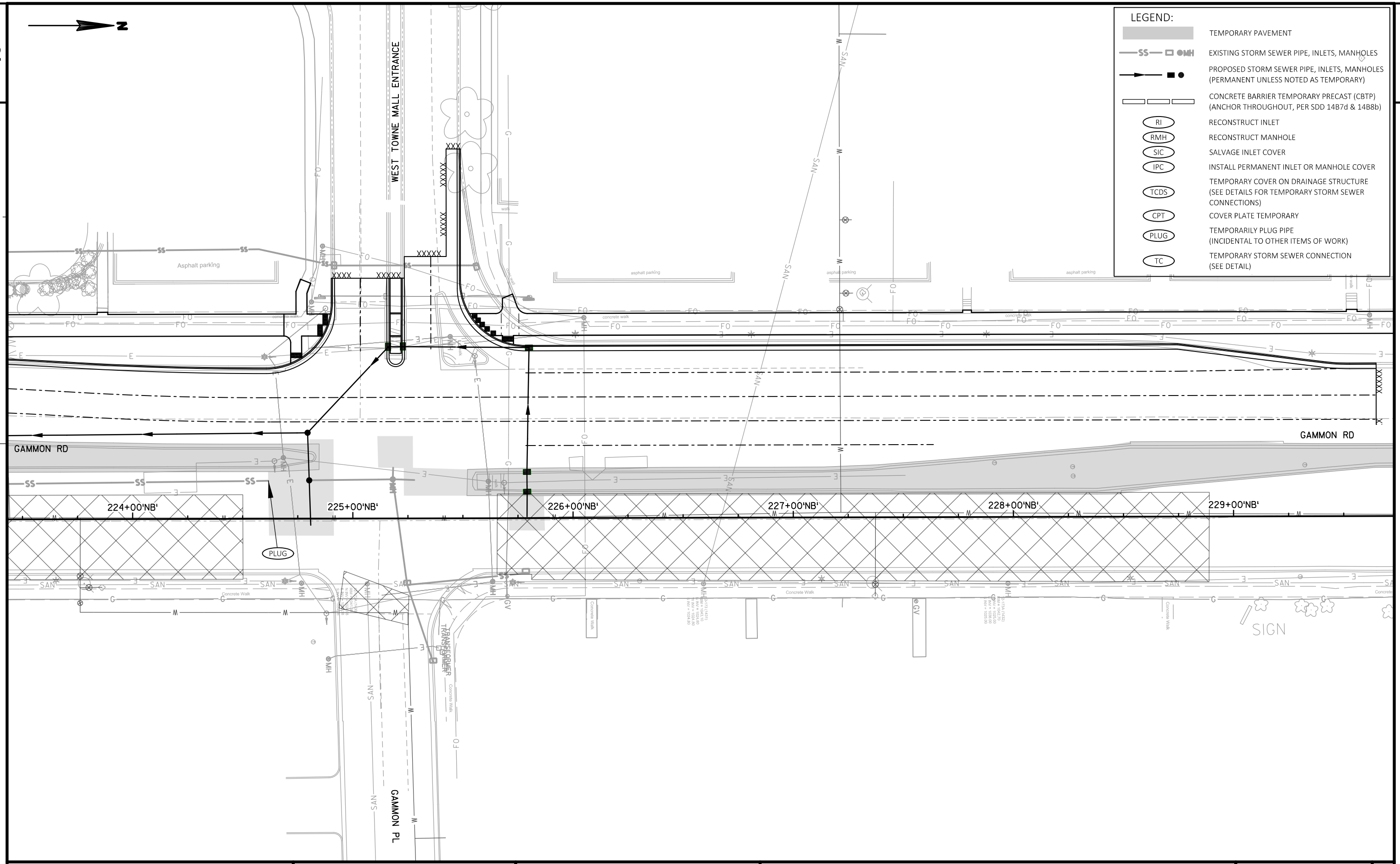
Conc Apron

TRANSFORMER

LEGEND:

	TEMPORARY PAVEMENT
SS MH	EXISTING STORM SEWER PIPE, INLETS, MANHOLES
	PROPOSED STORM SEWER PIPE, INLETS, MANHOLES (PERMANENT UNLESS NOTED AS TEMPORARY)
	CONCRETE BARRIER TEMPORARY PRECAST (CBTP) (ANCHOR THROUGHOUT, PER SDD 14B7d & 14B8b)
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RMH	RECONSTRUCT MANHOLE
SIC	SALVAGE INLET COVER
IPC	INSTALL PERMANENT INLET OR MANHOLE COVER
TCDS	TEMPORARY COVER ON DRAINAGE STRUCTURE (SEE DETAILS FOR TEMPORARY STORM SEWER CONNECTIONS)
CPT	COVER PLATE TEMPORARY
PLUG	TEMPORARILY PLUG PIPE (INCIDENTAL TO OTHER ITEMS OF WORK)
TC	TEMPORARY STORM SEWER CONNECTION (SEE DETAIL)

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STAGE 2A - DETAILS FOR TEMPORARY DRAINAGE	SHEET 208	E



PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STAGE 2A - DETAILS FOR TEMPORARY DRAINAGE	SHEET 209	E

LEGEND:

- TEMPORARY PAVEMENT
- EXISTING STORM SEWER PIPE, INLETS, MANHOLES
- PROPOSED STORM SEWER PIPE, INLETS, MANHOLES (PERMANENT UNLESS NOTED AS TEMPORARY)
- CONCRETE BARRIER TEMPORARY PRECAST (CBTP) (ANCHOR THROUGHOUT, PER SDD 14B7d & 14B8b)
- RI — RECONSTRUCT INLET
- RMH — RECONSTRUCT MANHOLE
- SIC — SALVAGE INLET COVER
- IPC — INSTALL PERMANENT INLET OR MANHOLE COVER
- TCDS — TEMPORARY COVER ON DRAINAGE STRUCTURE (SEE DETAILS FOR TEMPORARY STORM SEWER CONNECTIONS)
- CPT — COVER PLATE TEMPORARY
- PLUG — TEMPORARILY PLUG PIPE (INCIDENTAL TO OTHER ITEMS OF WORK)
- TC — TEMPORARY STORM SEWER CONNECTION (SEE DETAIL)

WEST TOWNE MALL ENTRANCE

GAMMON RD

GAMMON PL

PLUG

PLUG

223+00'NB'

224+00'NB'

225+00'NB'

226+00'NB'

227+00'NB'

228+00'NB'

Asphalt parking

Concrete Walk

TRANSFORMER

GV

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STAGE 2B - DETAILS FOR TEMPORARY DRAINAGE	SHEET 210	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025075_2B-TEMP PV and DR.DGN

PLOT BY : kk226 PLOT DATE : 8/1/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

LEGEND:

- TEMPORARY PAVEMENT
- SS — EXISTING STORM SEWER PIPE, INLETS, MANHOLES
- PROPOSED STORM SEWER PIPE, INLETS, MANHOLES (PERMANENT UNLESS NOTED AS TEMPORARY)
- CONCRETE BARRIER TEMPORARY PRECAST (CBTP) (ANCHOR THROUGHOUT, PER SDD 14B7d & 14B8b)
- RI — RECONSTRUCT INLET
- RMH — RECONSTRUCT MANHOLE
- SIC — SALVAGE INLET COVER
- IPC — INSTALL PERMANENT INLET OR MANHOLE COVER
- TCDS — TEMPORARY COVER ON DRAINAGE STRUCTURE (SEE DETAILS FOR TEMPORARY STORM SEWER CONNECTIONS)
- CPT — COVER PLATE TEMPORARY
- PLUG — TEMPORARILY PLUG PIPE (INCIDENTAL TO OTHER ITEMS OF WORK)
- TC — TEMPORARY STORM SEWER CONNECTION (SEE DETAIL)

N

WEST TOWNE MALL ENTRANCE

ABANDONED STORM SEWER

GAMMON RD

PLUG

CPT

ODANA RD

215+00'NB' 216+00'NB' 217+00'NB' 218+00'NB' 219+00'NB' 220+00'NB'

Asphalt parking

Asphalt Drive

Asphalt Parking

Concrete Walk

conc

TRANSFORMER

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STAGE 2C - DETAILS FOR TEMPORARY DRAINAGE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025076_2C-TEMP PV and DR.DGN PLOT BY : kk226 PLOT DATE : 8/1/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

N

LEGEND:

- TEMPORARY PAVEMENT
- EXISTING STORM SEWER PIPE, INLETS, MANHOLES
- PROPOSED STORM SEWER PIPE, INLETS, MANHOLES (PERMANENT UNLESS NOTED AS TEMPORARY)
- CONCRETE BARRIER TEMPORARY PRECAST (CBTP) (ANCHOR THROUGHOUT, PER SDD 14B7d & 14B8b)
- RI — RECONSTRUCT INLET
- RMH — RECONSTRUCT MANHOLE
- SIC — SALVAGE INLET COVER
- IPC — INSTALL PERMANENT INLET OR MANHOLE COVER
- TCDS — TEMPORARY COVER ON DRAINAGE STRUCTURE (SEE DETAILS FOR TEMPORARY STORM SEWER CONNECTIONS)
- CPT — COVER PLATE TEMPORARY
- PLUG — TEMPORARILY PLUG PIPE (INCIDENTAL TO OTHER ITEMS OF WORK)
- TC — TEMPORARY STORM SEWER CONNECTION (SEE DETAIL)

WEST TOWNE MALL ENTRANCE

ABANDONED STORM SEWER

PLUG

GAMMON RD

215+00'NB' 216+00'NB' 217+00'NB' 218+00'NB' 219+00'NB' 220+00'NB'

ODANA RD

Asphalt parking

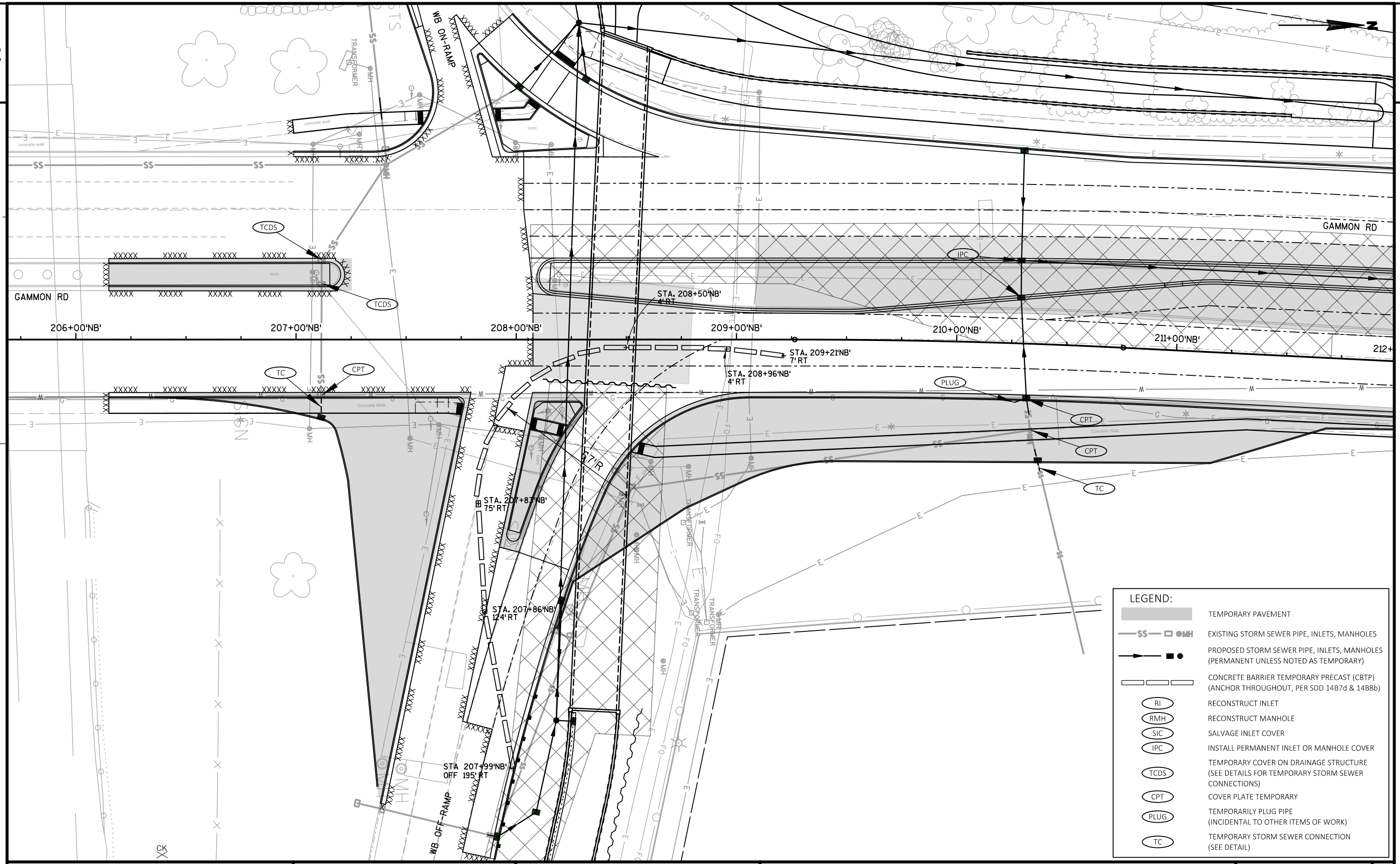
Asphalt Drive

Concrete Walk

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STAGE 2D - DETAILS FOR TEMPORARY DRAINAGE	SHEET 212	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025077_2D-TEMP PV and DR.DGN PLOT BY : kk226 PLOT DATE : 8/1/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42



PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STAGE 3A - DETAILS FOR TEMPORARY DRAINAGE	SHEET 213	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025080_3A-TEMP PV and DR.DGN PLOT BY : kk226 PLOT DATE : 8/1/2019 PLOT SCALE : 1:40

2

N

asphalt Drive

Asphalt parking

Asphalt parking

WEST TOWNE MALL ENTRANCE

ABANDONED
STORM SEWER

GAMMON RD

IPC

IPC

IPC

GAMMON RD

212+00'NB'

213+00'NB'

214+00'NB'

215+00'NB'

216+00'NB'

217+00'NB'

218+00

REMOVE
STORM SEWER

Asphalt Parking

Asphalt Parking

Asphalt Parking

Conc Apron

Asphalt Drive

Concrete Walk

Concrete Walk

ODANA RD

LEGEND:

	TEMPORARY PAVEMENT
SS OMH	EXISTING STORM SEWER PIPE, INLETS, MANHOLES
	PROPOSED STORM SEWER PIPE, INLETS, MANHOLES (PERMANENT UNLESS NOTED AS TEMPORARY)
	CONCRETE BARRIER TEMPORARY PRECAST (CBTP) (ANCHOR THROUGHOUT, PER SDD 14B7d & 14B8b)
RI	RECONSTRUCT INLET
RMH	RECONSTRUCT MANHOLE
SIC	SALVAGE INLET COVER
IPC	INSTALL PERMANENT INLET OR MANHOLE COVER
TCDS	TEMPORARY COVER ON DRAINAGE STRUCTURE (SEE DETAILS FOR TEMPORARY STORM SEWER CONNECTIONS)
CPT	COVER PLATE TEMPORARY
PLUG	TEMPORARILY PLUG PIPE (INCIDENTAL TO OTHER ITEMS OF WORK)
TC	TEMPORARY STORM SEWER CONNECTION (SEE DETAIL)

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STAGE 3A - DETAILS FOR TEMPORARY DRAINAGE	SHEET 214	E

2

N

WEST TOWNE MALL ENTRANCE

GAMMON RD

Asphalt parking

Asphalt parking

Asphalt parking

Concrete Walk

Concrete Walk

Concrete Walk

Conc Apron

Conc Apron

Asphalt Drive

Asphalt Drive

REMOVE INLET AND STORM SEWER

ABANDON STORM SEWER

IPC

RMH

IPC

IPC

RI

IPC

IPC

218+00'NB'

219+00'NB'

220+00'NB'

221+00'NB'

222+00'NB'

223+00'NB'

GAMMON RD

REMOVE STORM SEWER

REMOVE STORM SEWER

ABANDONED STORM SEWER

ODANA RD

LEGEND:

- TEMPORARY PAVEMENT
- EXISTING STORM SEWER PIPE, INLETS, MANHOLES
- PROPOSED STORM SEWER PIPE, INLETS, MANHOLES (PERMANENT UNLESS NOTED AS TEMPORARY)
- CONCRETE BARRIER TEMPORARY PRECAST (CBTP) (ANCHOR THROUGHOUT, PER SDD 14B7d & 14B8b)
- RI — RECONSTRUCT INLET
- RMH — RECONSTRUCT MANHOLE
- SIC — SALVAGE INLET COVER
- IPC — INSTALL PERMANENT INLET OR MANHOLE COVER
- TCDS — TEMPORARY COVER ON DRAINAGE STRUCTURE (SEE DETAILS FOR TEMPORARY STORM SEWER CONNECTIONS)
- CPT — COVER PLATE TEMPORARY
- PLUG — TEMPORARILY PLUG PIPE (INCIDENTAL TO OTHER ITEMS OF WORK)
- TC — TEMPORARY STORM SEWER CONNECTION (SEE DETAIL)

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STAGE 3A - DETAILS FOR TEMPORARY DRAINAGE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025082_3A-TEMP PV and DR.DGN PLOT BY : kk226 PLOT DATE : 8/1/2019 PLOT SCALE : 1:40

LEGEND:

- TEMPORARY PAVEMENT
- EXISTING STORM SEWER PIPE, INLETS, MANHOLES
- PROPOSED STORM SEWER PIPE, INLETS, MANHOLES (PERMANENT UNLESS NOTED AS TEMPORARY)
- CONCRETE BARRIER TEMPORARY PRECAST (CBTP) (ANCHOR THROUGHOUT, PER SDD 14B7d & 14B8b)
- RI — RECONSTRUCT INLET
- RMH — RECONSTRUCT MANHOLE
- SIC — SALVAGE INLET COVER
- IPC — INSTALL PERMANENT INLET OR MANHOLE COVER
- TCDS — TEMPORARY COVER ON DRAINAGE STRUCTURE (SEE DETAILS FOR TEMPORARY STORM SEWER CONNECTIONS)
- CPT — COVER PLATE TEMPORARY
- PLUG — TEMPORARILY PLUG PIPE (INCIDENTAL TO OTHER ITEMS OF WORK)
- TC — TEMPORARY STORM SEWER CONNECTION (SEE DETAIL)

N

WEST TOWNE MALL ENTRANCE

REPLACE TEMPORARY INLET WITH PERMANENT STORM SEWER (SEE DETAIL)

IPC

ABANDON MANHOLE

IPC

ABANDON STORM SEWER

REMOVE STORM SEWER

ABANDON INLET

GAMMON RD

GAMMON RD

GAMMON PL

224+00'NB'

225+00'NB'

226+00'NB'

227+00'NB'

228+00'NB'

229+00'NB'

Asphalt parking

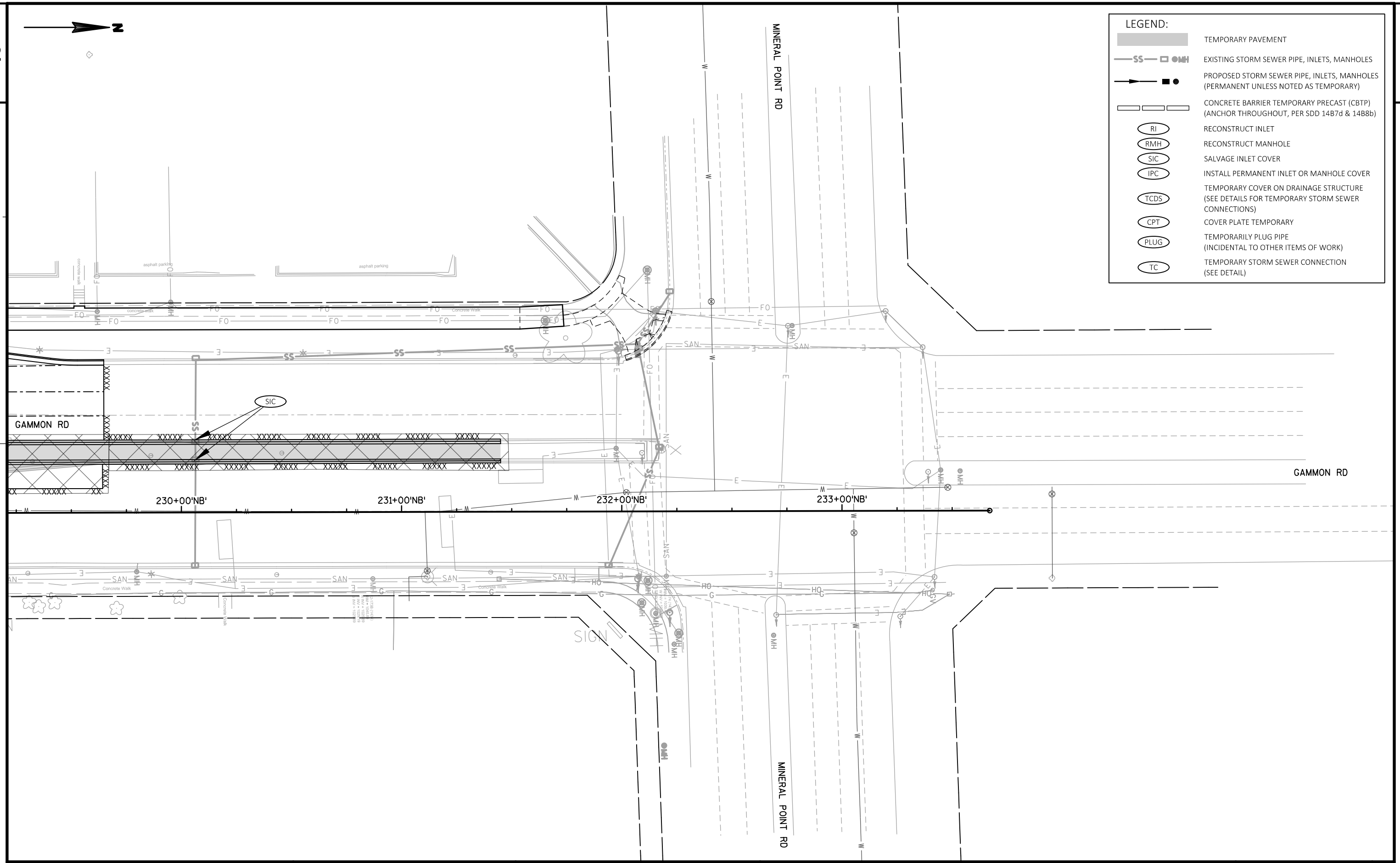
SIGN

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STAGE 3A - DETAILS FOR TEMPORARY DRAINAGE	SHEET E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025083_3A-TEMP PV and DR.DGN

PLOT BY : kk226 PLOT DATE : 8/1/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42



PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STAGE 3A - DETAILS FOR TEMPORARY DRAINAGE	SHEET 217	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025084_3A-TEMP PV and DR.DGN PLOT BY : kk226 PLOT DATE : 8/1/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

2

WB ON-RAMP

GAMMON RD

206+00'NB'

207+00'NB'

208+00'NB'

209+00'NB'

210+00'NB'

211+00'NB'

212-

TCDS

TCDS

CPT

TC

CPT

CPT

PLUG

TC

CPT

TCDS

WB OFF-RAMP

TRANSFORMER

LEGEND:

	TEMPORARY PAVEMENT
SS MH	EXISTING STORM SEWER PIPE, INLETS, MANHOLES
	PROPOSED STORM SEWER PIPE, INLETS, MANHOLES (PERMANENT UNLESS NOTED AS TEMPORARY)
	CONCRETE BARRIER TEMPORARY PRECAST (CBTP) (ANCHOR THROUGHOUT, PER SDD 14B7d & 14B8b)
RI	RECONSTRUCT INLET
RMH	RECONSTRUCT MANHOLE
SIC	SALVAGE INLET COVER
IPC	INSTALL PERMANENT INLET OR MANHOLE COVER
TCDS	TEMPORARY COVER ON DRAINAGE STRUCTURE (SEE DETAILS FOR TEMPORARY STORM SEWER CONNECTIONS)
CPT	COVER PLATE TEMPORARY
PLUG	TEMPORARILY PLUG PIPE (INCIDENTAL TO OTHER ITEMS OF WORK)
TC	TEMPORARY STORM SEWER CONNECTION (SEE DETAIL)

CK

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STAGE 3B - DETAILS FOR TEMPORARY DRAINAGE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025085_3B-TEMP PV and DR.DGN

PLOT BY : kk226 PLOT DATE : 8/1/2019 PLOT SCALE : 1:40

2

2

GAMMON RD

206+00'NB'

207+00'NB'

208+00'NB'

209+00'NB'

210+00'NB'

211+00'NB'

212+

WB ON-RAMP

WB OFF-RAMP

TRANSFORMER

TCDS

CPT

TC

RI

IPC

CK

LEGEND:

- TEMPORARY PAVEMENT
- EXISTING STORM SEWER PIPE, INLETS, MANHOLES
- PROPOSED STORM SEWER PIPE, INLETS, MANHOLES (PERMANENT UNLESS NOTED AS TEMPORARY)
- CONCRETE BARRIER TEMPORARY PRECAST (CBTP) (ANCHOR THROUGHOUT, PER SDD 14B7d & 14B8b)
- RI — RECONSTRUCT INLET
- RMH — RECONSTRUCT MANHOLE
- SIC — SALVAGE INLET COVER
- IPC — INSTALL PERMANENT INLET OR MANHOLE COVER
- TCDS — TEMPORARY COVER ON DRAINAGE STRUCTURE (SEE DETAILS FOR TEMPORARY STORM SEWER CONNECTIONS)
- CPT — COVER PLATE TEMPORARY
- PLUG — TEMPORARILY PLUG PIPE (INCIDENTAL TO OTHER ITEMS OF WORK)
- TC — TEMPORARY STORM SEWER CONNECTION (SEE DETAIL)

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STAGE 3C - DETAILS FOR TEMPORARY DRAINAGE	SHEET 219	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\025086_3C-TEMP PV and DR.DGN

PLOT BY : kk226 PLOT DATE : 8/1/2019 PLOT SCALE : 1:40

2

WB ON-RAMP

CONSTRUCT EARLY SUBSTAGE 3D

GAMMON RD

SIC

SIC

206+00'NB'

207+00'NB'

208+00'NB'

209+00'NB'

210+00'NB'

211+00'NB'

212

GAMMON RD

SIC

RI

CONSTRUCT LATE SUBSTAGE 3D

WB OFF-RAMP

asphalt Drive

POSTS

TRANSFORMER

concrete walk

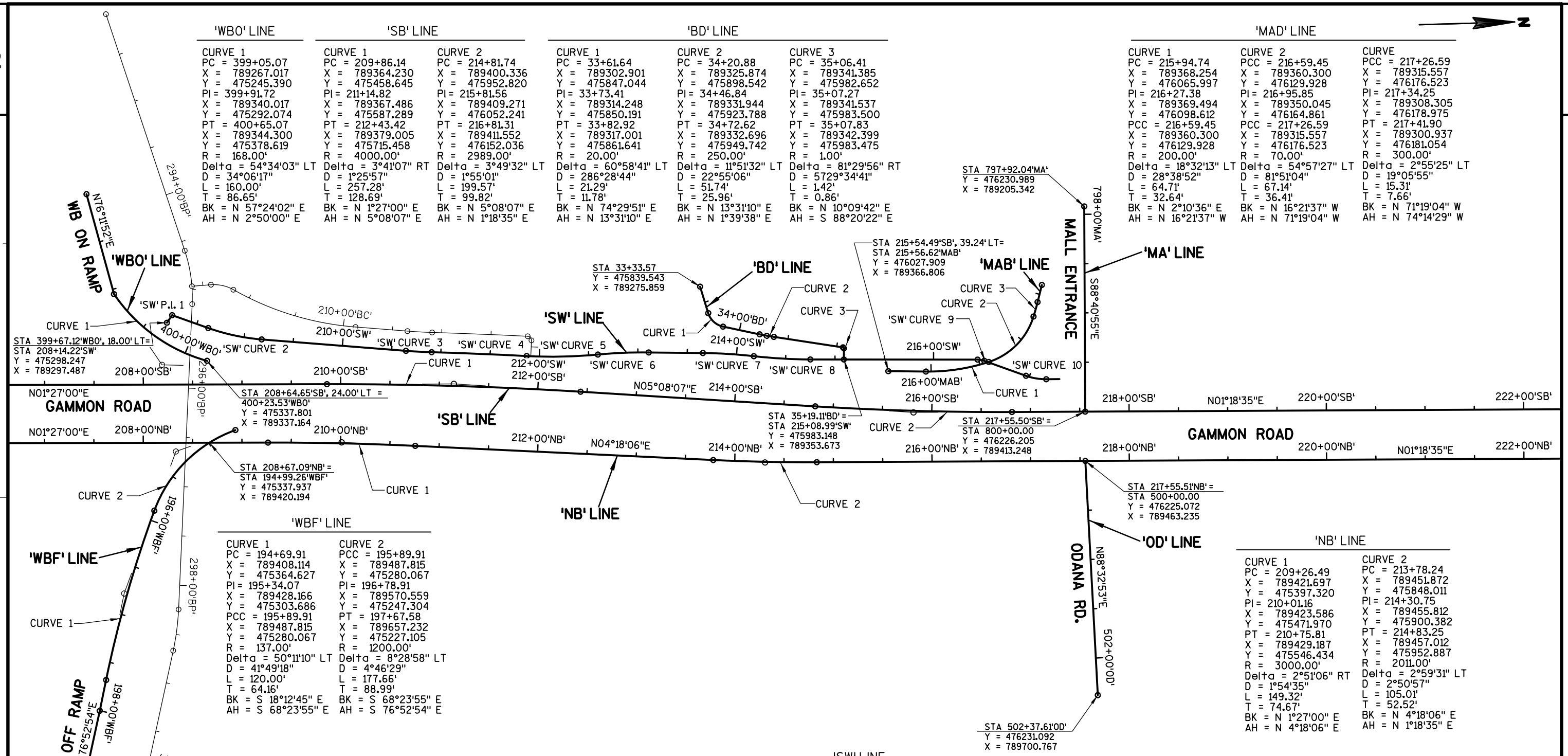
conc

Concrete Walk

LEGEND:

	TEMPORARY PAVEMENT
SS MH	EXISTING STORM SEWER PIPE, INLETS, MANHOLES
	PROPOSED STORM SEWER PIPE, INLETS, MANHOLES (PERMANENT UNLESS NOTED AS TEMPORARY)
	CONCRETE BARRIER TEMPORARY PRECAST (CBTP) (ANCHOR THROUGHOUT, PER SDD 14B7d & 14B8b)
RI	RECONSTRUCT INLET
RMH	RECONSTRUCT MANHOLE
SIC	SALVAGE INLET COVER
IPC	INSTALL PERMANENT INLET OR MANHOLE COVER
TCDS	TEMPORARY COVER ON DRAINAGE STRUCTURE (SEE DETAILS FOR TEMPORARY STORM SEWER CONNECTIONS)
CPT	COVER PLATE TEMPORARY
PLUG	TEMPORARILY PLUG PIPE (INCIDENTAL TO OTHER ITEMS OF WORK)
TC	TEMPORARY STORM SEWER CONNECTION (SEE DETAIL)

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	STAGE 3D - DETAILS FOR TEMPORARY DRAINAGE	SHEET 220	E



'WBO' LINE

CURVE 1
PC = 399+05.07
X = 789267.017
Y = 475245.390
PI = 399+91.72
X = 789340.017
Y = 475292.074
PT = 400+65.07
X = 789344.300
Y = 475378.619
R = 168.00'
Delta = 54°34'03" LT
D = 34°06'17"
L = 160.00'
T = 86.65'
BK = N 57°24'02" E
AH = N 2°50'00" E

'SB' LINE

CURVE 1
PC = 209+86.14
X = 789364.230
Y = 475458.645
PI = 211+14.82
X = 789367.486
Y = 475587.289
PT = 212+43.42
X = 789379.005
Y = 475715.458
R = 4000.00'
Delta = 3°41'07" RT
D = 1°25'57"
L = 257.28'
T = 128.69'
BK = N 1°27'00" E
AH = N 5°08'07" E

CURVE 2
PC = 214+81.74
X = 789400.336
Y = 475952.820
PI = 215+81.56
X = 789409.271
Y = 476052.241
PT = 216+81.31
X = 789411.552
Y = 476152.036
R = 2989.00'
Delta = 3°49'32" LT
D = 1°55'01"
L = 199.57'
T = 99.82'
BK = N 5°08'07" E
AH = N 1°18'35" E

'BD' LINE

CURVE 1
PC = 33+61.64
X = 789302.901
Y = 475847.044
PI = 33+73.41
X = 789314.248
Y = 475850.191
PT = 33+82.92
X = 789317.001
Y = 475861.641
R = 20.00'
Delta = 60°58'41" LT
D = 286°28'44"
L = 21.29'
T = 11.78'
BK = N 74°29'51" E
AH = N 13°31'10" E

CURVE 2
PC = 34+20.88
X = 789325.874
Y = 475898.542
PI = 34+46.84
X = 789331.944
Y = 475923.788
PT = 34+72.62
X = 789332.696
Y = 475949.742
R = 250.00'
Delta = 11°51'32" LT
D = 22°55'06"
L = 51.74'
T = 25.96'
BK = N 13°31'10" E
AH = N 1°39'38" E

CURVE 3
PC = 35+06.41
X = 789341.385
Y = 475982.652
PI = 35+07.27
X = 789341.537
Y = 475983.500
PT = 35+07.83
X = 789342.399
Y = 475983.475
R = 1.00'
Delta = 81°29'56" RT
D = 5729°34'41"
L = 1.42'
T = 0.86'
BK = N 10°09'42" E
AH = S 88°20'22" E

'MAD' LINE

CURVE 1
PC = 215+94.74
X = 789368.254
Y = 476065.997
PI = 216+27.38
X = 789369.494
Y = 476098.612
PCC = 216+59.45
X = 789360.300
Y = 476129.928
R = 200.00'
Delta = 18°32'13" LT
D = 28°38'52"
L = 64.71'
T = 32.64'
BK = N 2°10'36" E
AH = N 16°21'37" W

CURVE 2
PCC = 216+59.45
X = 789360.300
Y = 476129.928
PI = 216+95.85
X = 789350.045
Y = 476164.861
PCC = 217+26.59
X = 789315.557
Y = 476176.523
R = 70.00'
Delta = 54°57'27" LT
D = 81°51'04"
L = 67.14'
T = 36.41'
BK = N 16°21'37" W
AH = N 71°19'04" W

CURVE
PCC = 217+26.59
X = 789315.557
Y = 476176.523
PI = 217+34.25
X = 789308.305
Y = 476178.975
PT = 217+41.90
X = 789300.937
Y = 476181.054
R = 300.00'
Delta = 2°55'25" LT
D = 19°05'55"
L = 15.31'
T = 7.66'
BK = N 71°19'04" W
AH = N 74°14'29" W

'WBF' LINE

CURVE 1
PC = 194+69.91
X = 789408.114
Y = 475364.627
PI = 195+34.07
X = 789428.166
Y = 475303.686
PCC = 195+89.91
X = 789487.815
Y = 475280.067
R = 137.00'
Delta = 50°11'10" LT
D = 41°49'18"
L = 120.00'
T = 64.16'
BK = S 18°12'45" E
AH = S 68°23'55" E

CURVE 2
PCC = 195+89.91
X = 789487.815
Y = 475280.067
PI = 196+78.91
X = 789570.559
Y = 475247.304
PT = 197+67.58
X = 789657.232
Y = 475227.105
R = 1200.00'
Delta = 8°28'58" LT
D = 4°46'29"
L = 177.66'
T = 88.99'
BK = S 68°23'55" E
AH = S 76°52'54" E

'NB' LINE

CURVE 1
PC = 209+26.49
X = 789421.697
Y = 475397.320
PI = 210+01.16
X = 789423.586
Y = 475471.970
PT = 210+75.81
X = 789429.187
Y = 475546.434
R = 3000.00'
Delta = 2°51'06" RT
D = 1°54'35"
L = 149.32'
T = 74.67'
BK = N 1°27'00" E
AH = N 4°18'06" E

CURVE 2
PC = 213+78.24
X = 789451.872
Y = 475848.011
PI = 214+30.75
X = 789455.812
Y = 475900.382
PT = 214+83.25
X = 789457.012
Y = 475952.887
R = 2011.00'
Delta = 2°59'31" LT
D = 2°50'57"
L = 105.01'
T = 52.52'
BK = N 4°18'06" E
AH = N 1°18'35" E

'SW' LINE

'SW' P.I. 1
P.I.= 208+23.49
Y= 475303.726
X= 789290.012
Δ= 74°51'43"RT.

'SW' CURVE 2
PC = 208+62.40
X = 789304.022
Y = 475340.030
PI = 208+90.30
X = 789314.066
Y = 475366.055
PT = 209+17.88
X = 789317.035
Y = 475393.791
R = 212.00'
Delta = 14°59'30" LT
D = 27°01'35"
L = 55.47'
T = 27.89'
BK = N 21°06'08" E
AH = N 6°06'38" E

'SW' CURVE 3
PC = 210+64.54
X = 789332.647
Y = 475539.619
PI = 210+77.59
X = 789334.036
Y = 475552.594
PRC = 210+90.63
X = 789334.759
Y = 475565.623
R = 510.00'
Delta = 2°55'53" LT
D = 11°14'04"
L = 26.09'
T = 13.05'
BK = N 6°06'38" E
AH = N 3°10'45" E

'SW' CURVE 4
PRC = 210+90.63
X = 789334.759
Y = 475565.623
PI = 211+38.85
X = 789337.434
Y = 475613.771
PRC = 211+87.07
X = 789341.262
Y = 475661.841
R = 4022.00'
Delta = 1°22'26" RT
D = 1°25'28"
L = 96.44'
T = 48.22'
BK = N 3°10'45" E
AH = N 4°33'11" E

'SW' CURVE 5
PRC = 211+87.07
X = 789341.262
Y = 475661.841
PI = 212+23.27
X = 789344.135
Y = 475697.927
PRC = 212+59.34
X = 789341.781
Y = 475734.050
R = 500.00'
Delta = 8°16'55" LT
D = 11°27'33"
L = 72.27'
T = 36.20'
BK = N 4°33'11" E
AH = N 3°43'44" W

'SW' CURVE 6
PRC = 212+59.34
X = 789341.781
Y = 475734.050
PI = 212+85.13
X = 789340.104
Y = 475759.787
PT = 213+10.88
X = 789341.083
Y = 475785.559
R = 500.00'
Delta = 5°54'20" RT
D = 11°27'33"
L = 51.54'
T = 25.79'
BK = N 3°43'44" W
AH = N 2°10'36" E

'SW' CURVE 7
PC = 213+65.88
X = 789343.172
Y = 475840.520
PI = 213+91.77
X = 789344.156
Y = 475866.395
PRC = 214+17.62
X = 789347.807
Y = 475892.030
R = 500.00'
Delta = 5°55'45" RT
D = 11°27'33"
L = 51.74'
T = 25.89'
BK = N 2°10'36" E
AH = N 8°06'21" E

'SW' CURVE 8
PRC = 214+17.62
X = 789347.807
Y = 475892.030
PI = 214+46.34
X = 789351.856
Y = 475920.459
PT = 214+74.99
X = 789352.688
Y = 475949.162
R = 510.00'
Delta = 6°26'43" LT
D = 11°14'04"
L = 57.37'
T = 28.72'
BK = N 8°06'21" E
AH = N 1°39'38" E

'SW' CURVE 9
PC = 216+44.58
X = 789357.602
Y = 476118.677
PI = 216+48.04
X = 789357.702
Y = 476122.135
PT = 216+51.43
X = 789358.958
Y = 476125.357
R = 20.00'
Delta = 19°37'24" RT
D = 286°28'44"
L = 6.85'
T = 3.46'
BK = N 1°39'38" E
AH = N 21°17'02" E

'SW' CURVE 10
PC = 216+96.40
X = 789375.282
Y = 476167.261
PI = 217+06.96
X = 789379.117
Y = 476177.106
PT = 217+17.32
X = 789379.358
Y = 476187.669
R = 60.00'
Delta = 19°58'27" LT
D = 95°29'35"
L = 20.92'
T = 10.57'
BK = N 21°17'02" E
AH = N 1°18'35" E

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	ALIGNMENT DIAGRAM	SHEET 221	E

2

'SB' LINE

CURVE 3	CURVE 4
PC = 222+73.36	PRC = 223+68.94
X = 789425.085	X = 789430.290
Y = 476743.937	Y = 476839.359
PI = 223+21.17	PI = 224+16.05
X = 789426.178	X = 789434.342
Y = 476791.730	Y = 476886.294
PRC = 223+68.94	PT = 224+63.13
X = 789430.290	X = 789435.419
Y = 476839.359	Y = 476933.392
R = 1511.00'	R = 1489.00'
Delta = 3°37'28" RT	Delta = 3°37'28" LT
D = 3°47'31"	D = 3°50'53"
L = 95.58'	L = 94.19'
T = 47.81'	T = 47.11'
BK = N 1°18'35" E	BK = N 4°56'03" E
AH = N 4°56'03" E	AH = N 1°18'35" E

N

MINERAL POINT RD.

STA 898+00.00
Y = 476990.730
X = 789236.677

898+00'MB'

'MB' LINE

MALL ENTRANCE

S88°38'13"E

STA 225+15.73'SB'=
STA 900+00.00'MB'
Y = 476985.973
X = 789436.621

'SB' LINE

CURVE 3

CURVE 4

N01°18'35"E

222+00'SB'

224+00'SB'

226+00'SB'

228+00'SB'

N01°18'35"E

230+00'SB'

232+00'SB'

STA 233+67.20'SB'
Y = 477837.226
X = 789456.084

GAMMON ROAD

GAMMON ROAD

222+00'NB'

224+00'NB'

226+00'NB'

N01°18'35"E

228+00'NB'

230+00'NB'

232+00'NB'

STA 225+10.22'NB'=
600+00.00'GP'
Y = 476979.591
X = 789480.486

'NB' LINE

STA 233+67.07'NB'
Y = 477836.220
X = 789500.072

GAMMON PL.

N89°30'43"E

601+00'GP'

'GP' LINE

STA 601+42.66
Y = 476980.806
X = 789623.143

MINERAL POINT RD.

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	ALIGNMENT DIAGRAM	SHEET 222	E

2

2

'BP' LINE

CURVE 1
PC = 294+59.76
X = 789224.980
Y = 475318.346
PI = 294+87.58
X = 789251.597
Y = 475326.414
PT = 295+14.76
X = 789279.337
Y = 475324.403
R = 150.00'
Delta = 21°00'32" RT
D = 38°11'50"
L = 55.00'
T = 27.81'
BK = N 73°08'17" E
AH = S 85°51'11" E

CURVE 2
PC = 298+24.47
X = 789588.234
Y = 475302.007
PI = 298+45.59
X = 789609.298
Y = 475300.480
PT = 298+66.61
X = 789629.806
Y = 475295.441
R = 250.00'
Delta = 9°39'25" RT
D = 22°55'06"
L = 42.14'
T = 21.12'
BK = S 85°51'11" E
AH = S 76°11'46" E

CURVE 3
PC = 300+24.77
X = 789783.396
Y = 475257.704
PI = 300+53.16
X = 789810.972
Y = 475250.929
PT = 300+81.53
X = 789837.997
Y = 475242.216
R = 800.00'
Delta = 4°03'56" RT
D = 7°09'43"
L = 56.77'
T = 28.40'
BK = S 76°11'46" E
AH = S 72°07'50" E

CURVE 4
PC = 301+61.63
X = 789914.233
Y = 475217.637
PI = 302+20.57
X = 789970.327
Y = 475199.552
PRC = 302+76.26
X = 790027.264
Y = 475214.776
R = 200.00'
Delta = 32°50'20" LT
D = 28°38'52"
L = 114.63'
T = 58.94'
BK = S 72°07'50" E
AH = N 75°01'50" E

CURVE 5
PRC = 302+76.26
X = 790027.264
Y = 475214.776
PI = 303+27.12
X = 790076.389
Y = 475227.911
PT = 303+75.86
X = 790125.823
Y = 475215.987
R = 200.00'
Delta = 28°31'51" RT
D = 28°38'52"
L = 99.59'
T = 50.85'
BK = N 75°01'50" E
AH = S 76°26'18" E

CURVE 6
PC = 306+22.80
X = 790365.883
Y = 475158.080
PI = 306+40.07
X = 790382.668
Y = 475154.032
PT = 306+57.18
X = 790399.933
Y = 475153.902
R = 150.00'
Delta = 13°07'57" LT
D = 38°11'50"
L = 34.38'
T = 17.27'
BK = S 76°26'18" E
AH = S 89°34'15" E

N

'BC' LINE

CURVE 1
PC = 208+58.28
X = 789260.240
Y = 475343.943
PI = 208+70.44
X = 789259.648
Y = 475356.089
PRC = 208+81.89
X = 789265.916
Y = 475366.510
R = 40.00'
Delta = 33°49'11" RT
D = 143°14'22"
L = 23.61'
T = 12.16'
BK = N 2°47'32" W
AH = N 31°01'39" E

CURVE 2
PRC = 208+81.89
X = 789265.916
Y = 475366.510
PI = 209+48.17
X = 789300.080
Y = 475423.307
PT = 210+12.35
X = 789307.136
Y = 475489.211
R = 300.00'
Delta = 24°55'01" LT
D = 19°05'55"
L = 130.46'
T = 66.28'
BK = N 31°01'39" E
AH = N 6°06'38" E

CURVE 3
PC = 210+65.19
X = 789312.760
Y = 475541.748
PI = 210+77.73
X = 789314.095
Y = 475554.214
PRC = 210+90.26
X = 789314.790
Y = 475566.732
R = 490.00'
Delta = 2°55'53" LT
D = 11°41'35"
L = 25.07'
T = 12.54'
BK = N 6°06'38" E
AH = N 3°10'45" E

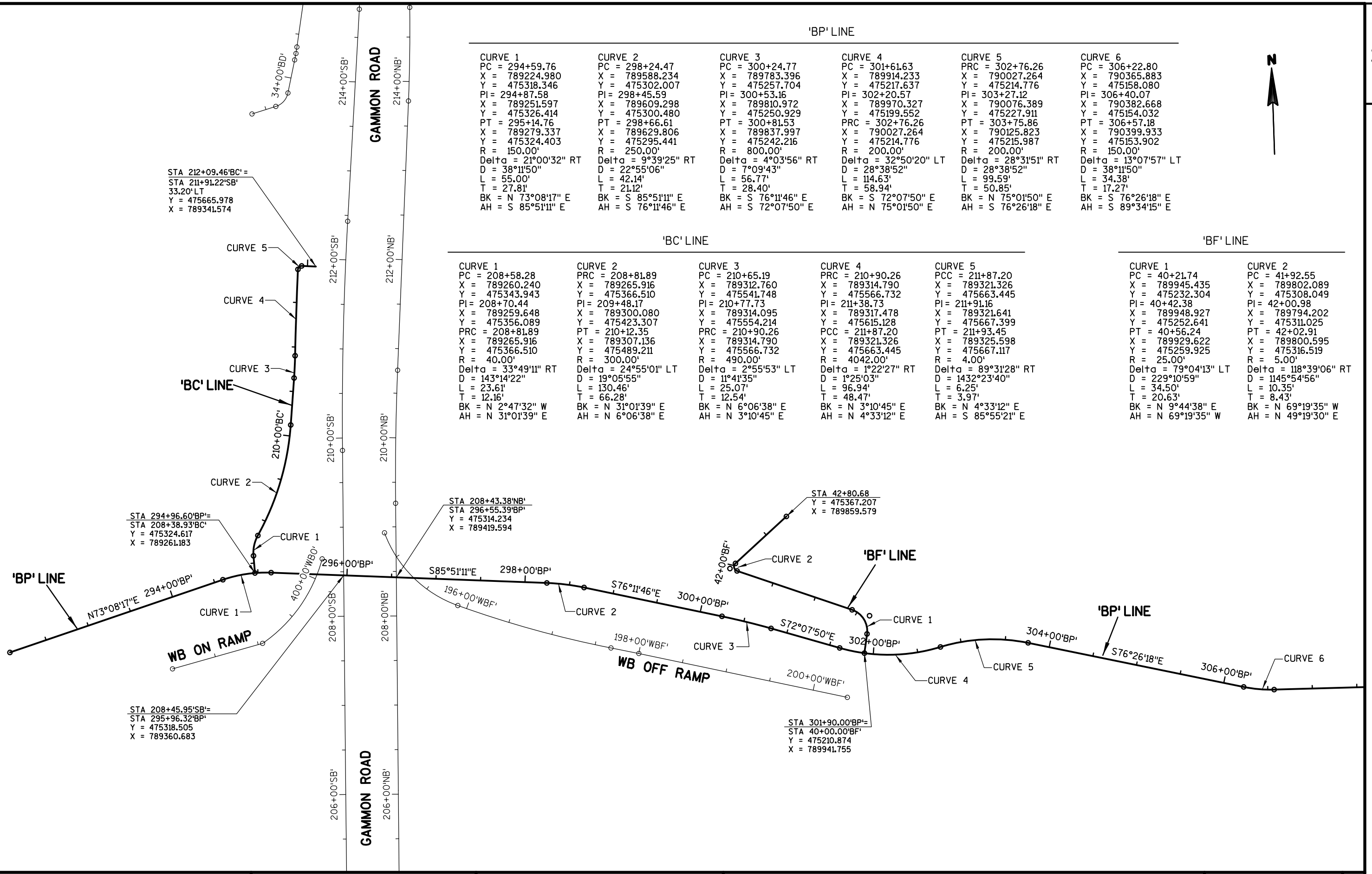
CURVE 4
PRC = 210+90.26
X = 789314.790
Y = 475566.732
PI = 211+38.73
X = 789317.478
Y = 475615.128
PCC = 211+87.20
X = 789321.326
Y = 475663.445
R = 4042.00'
Delta = 1°22'27" RT
D = 1°25'03"
L = 96.94'
T = 48.47'
BK = N 3°10'45" E
AH = N 4°33'12" E

CURVE 5
PCC = 211+87.20
X = 789321.326
Y = 475663.445
PI = 211+91.16
X = 789321.641
Y = 475667.399
PT = 211+93.45
X = 789325.598
Y = 475667.117
R = 4.00'
Delta = 89°31'28" RT
D = 1432°23'40"
L = 6.25'
T = 3.97'
BK = N 4°33'12" E
AH = S 85°55'21" E

'BF' LINE

CURVE 1
PC = 40+21.74
X = 789945.435
Y = 475232.304
PI = 40+42.38
X = 789948.927
Y = 475252.641
PT = 40+56.24
X = 789929.622
Y = 475259.925
R = 25.00'
Delta = 79°04'13" LT
D = 229°10'59"
L = 34.50'
T = 20.63'
BK = N 9°44'38" E
AH = N 69°19'35" W

CURVE 2
PC = 41+92.55
X = 789802.089
Y = 475308.049
PI = 42+00.98
X = 789794.202
Y = 475311.025
PT = 42+02.91
X = 789800.595
Y = 475316.519
R = 5.00'
Delta = 118°39'06" RT
D = 1145°54'56"
L = 10.35'
T = 8.43'
BK = N 69°19'35" W
AH = N 49°19'30" E



PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	ALIGNMENT DIAGRAM	SHEET 223	E

'BP' LINE

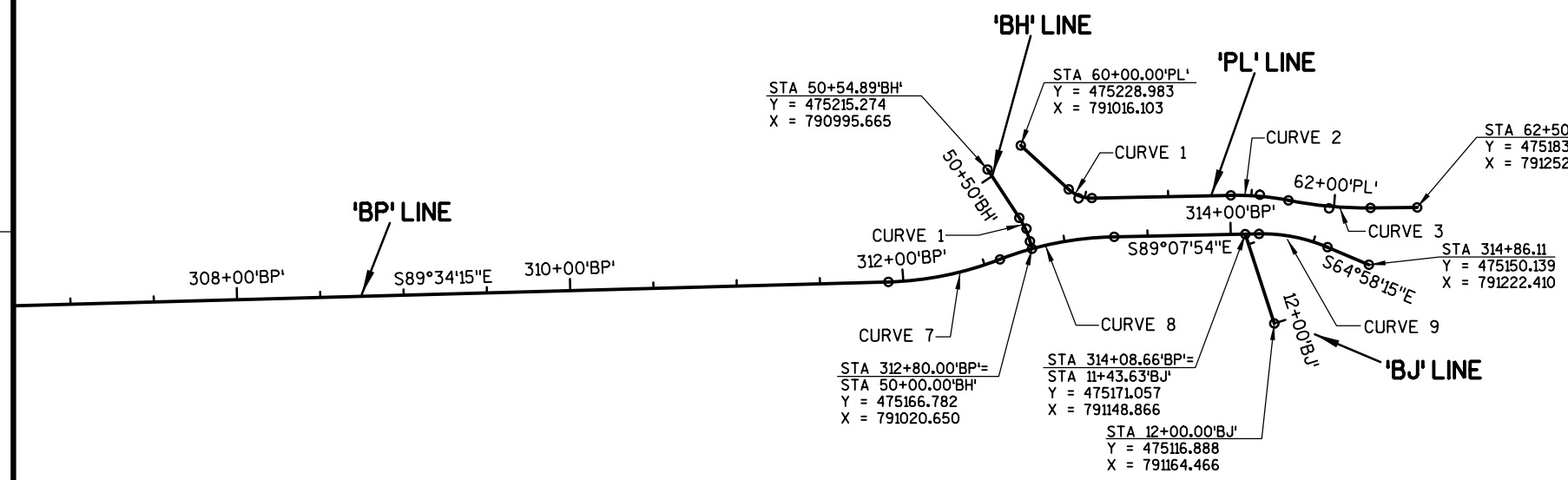
CURVE 7	CURVE 8	CURVE 9
PC = 311+91.05	PRC = 312+59.76	PC = 314+16.97
X = 790933.789	X = 791001.237	X = 791157.175
Y = 475149.905	Y = 475161.085	Y = 475170.931
PI = 312+25.75	PI = 312+95.24	PI = 314+38.37
X = 790968.483	X = 791034.737	X = 791178.575
Y = 475149.645	Y = 475172.787	Y = 475170.606
PRC = 312+59.76	PT = 313+30.00	PT = 314+59.13
X = 791001.237	X = 791070.218	X = 791197.967
Y = 475161.085	Y = 475172.249	Y = 475161.552
R = 200.00'	R = 200.00'	R = 100.00'
Delta = 19°40'58" LT	Delta = 20°07'20" RT	Delta = 24°09'38" RT
D = 28°38'52"	D = 28°38'52"	D = 57°17'45"
L = 68.71'	L = 70.24'	L = 42.17'
T = 34.69'	T = 35.49'	T = 21.40'
BK = S 89°34'15" E	BK = N 70°44'47" E	BK = S 89°07'54" E
AH = N 70°44'47" E	AH = S 89°07'54" E	AH = S 64°58'15" E

'BH' LINE

CURVE 1
PC = 50+04.64
X = 791019.570
Y = 475171.297
PI = 50+12.48
X = 791017.746
Y = 475178.920
PT = 50+20.19
X = 791013.677
Y = 475185.620
R = 50.00'
Delta = 17°49'08" LT
D = 114°35'30"
L = 15.55'
T = 7.84'
BK = N 13°27'19" W
AH = N 31°16'27" W

'PL' LINE

CURVE1	CURVE 2	CURVE 3
PC = 60+38.98	PC = 61+37.62	PRC = 61+72.39
X = 791043.916	X = 791141.028	X = 791175.476
Y = 475201.670	Y = 475194.678	Y = 475190.437
PI = 60+46.98	PI = 61+55.07	PI = 61+97.26
X = 791049.625	X = 791158.480	X = 791199.695
Y = 475196.064	Y = 475194.414	Y = 475184.771
PT = 60+54.20	PRC = 61+72.39	PT = 62+21.96
X = 791057.626	X = 791175.476	X = 791224.560
Y = 475195.943	Y = 475190.437	Y = 475184.192
R = 20.00'	R = 162.00'	R = 240.00'
Delta = 43°36'43" LT	Delta = 12°17'58" RT	Delta = 11°50'00" LT
D = 286°28'44"	D = 35°22'04"	D = 23°52'24"
L = 15.22'	L = 34.78'	L = 49.57'
T = 8.00'	T = 17.45'	T = 24.87'
BK = S 45°31'10" E	BK = S 89°07'54" E	BK = S 76°49'56" E
AH = S 89°07'54" E	AH = S 76°49'56" E	AH = S 88°39'56" E



PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	ALIGNMENT DIAGRAM	SHEET 224	E

					5992-10-31	5992-10-32	5992-10-33
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
0002	201.0120	Clearing	ID	659.000	83.000	576.000	
0004	201.0220	Grubbing	ID	659.000	83.000	576.000	
0006	204.0100	Removing Pavement	SY	22,643.000		22,643.000	
0008	204.0110	Removing Asphaltic Surface	SY	7,640.000	640.000	7,000.000	
0010	204.0115	Removing Asphaltic Surface Butt Joints	SY	150.000	10.000	140.000	
0012	204.0120	Removing Asphaltic Surface Milling	SY	270.000	270.000		
0014	204.0140	Removing Gutter	LF	56.000	56.000		
0016	204.0150	Removing Curb & Gutter	LF	1,971.000	437.000	1,534.000	
0018	204.0155	Removing Concrete Sidewalk	SY	2,536.000		2,536.000	
0020	204.0165	Removing Guardrail	LF	8.000		8.000	
0022	204.0170	Removing Fence	LF	1,463.000	1,463.000		
0024	204.0195	Removing Concrete Bases	EACH	78.000	1.000	77.000	
0026	204.0210	Removing Manholes	EACH	12.000		12.000	
0028	204.0220	Removing Inlets	EACH	39.000	3.000	36.000	
0030	204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	726.000	6.000	720.000	
0032	204.0245	Removing Storm Sewer (size) 02. 15-Inch	LF	244.000		244.000	
0034	204.0245	Removing Storm Sewer (size) 03. 18-Inch	LF	389.000		389.000	
0036	204.0245	Removing Storm Sewer (size) 04. 24-Inch	LF	512.000	170.000	342.000	
0038	204.0245	Removing Storm Sewer (size) 05. 30-Inch	LF	1,105.000		1,105.000	
0040	204.0245	Removing Storm Sewer (size) 06. 36-Inch	LF	384.000		384.000	
0042	204.0250	Abandoning Manholes	EACH	1.000		1.000	
0044	204.0260	Abandoning Inlets	EACH	1.000		1.000	
0046	204.0291.S	Abandoning Sewer	CY	9.000		9.000	
0048	205.0100	Excavation Common	CY	32,619.000	7,768.000	24,851.000	
0050	206.2000	Excavation for Structures Culverts (structure) 01. B-13-0870	LS	1.000	1.000		
0052	210.2500	Backfill Structure Type B	TON	7,345.000	7,345.000		
0054	213.0100	Finishing Roadway (project) 01. 5992-10-32	EACH	1.000		1.000	
0056	213.0100	Finishing Roadway (project) 02. 5992-10-31	EACH	1.000	1.000		
0058	305.0110	Base Aggregate Dense 3/4-Inch	TON	191.000	12.000	179.000	
0060	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	29,821.000	1,875.000	27,946.000	
0062	305.0130	Base Aggregate Dense 3-Inch	TON	19,310.000		19,310.000	
0064	415.0090	Concrete Pavement 9-Inch	SY	120.000		120.000	
0066	415.1090	Concrete Pavement HES 9-Inch	SY	339.000		339.000	
0068	416.0170	Concrete Driveway 7-Inch	SY	135.000	45.000	90.000	
0070	416.0610	Drilled Tie Bars	EACH	664.000		664.000	
0072	416.0620	Drilled Dowel Bars	EACH	35.000		35.000	
0074	450.4000	HMA Cold Weather Paving	TON	2,636.000		2,636.000	
0076	455.0605	Tack Coat	GAL	3,321.000	18.000	3,303.000	
0078	460.2000	Incentive Density HMA Pavement	DOL	5,710.000		5,710.000	

					5992-10-31	5992-10-32	5992-10-33
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
0080	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	4,500.000		4,500.000	
0082	460.6223	HMA Pavement 3 MT 58-28 S	TON	6,278.000		6,278.000	
0084	460.6424	HMA Pavement 4 MT 58-28 H	TON	2,636.000		2,636.000	
0086	465.0105	Asphaltic Surface	TON	925.000	655.000	270.000	
0088	465.0110	Asphaltic Surface Patching	TON	10.000		10.000	
0090	465.0125	Asphaltic Surface Temporary	TON	3,800.000		3,800.000	
0092	504.0100	Concrete Masonry Culverts	CY	896.000	896.000		
0094	505.0400	Bar Steel Reinforcement HS Structures	LB	158,390.000	158,390.000		
0096	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	2,290.000	2,290.000		
0098	511.1200	Temporary Shoring (structure) 600. B-13-0870	SF	3,300.000	3,300.000		
0100	511.2200	Temporary Shoring Left in Place (structure) 01. R-13-0338	SF	150.000	150.000		
0102	511.2200	Temporary Shoring Left in Place (structure) 02. R-13-0341	SF	4,030.000	4,030.000		
0104	516.0100	Dampproofing	SY	875.000	875.000		
0106	516.0500	Rubberized Membrane Waterproofing	SY	75.000	75.000		
0108	517.1015.S	Concrete Staining Multi-Color (structure) 01. B-13-0870	SF	5,900.000	5,900.000		
0110	517.1050.S	Architectural Surface Treatment (structure) 01. B-13-0870	SF	4,750.000	4,750.000		
0112	520.8000	Concrete Collars for Pipe	EACH	9.000	1.000	8.000	
0114	522.1054	Apron Endwalls for Culvert Pipe Reinforced Concrete 54-Inch	EACH	1.000		1.000	
0116	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	937.000		937.000	
0118	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	235.000		235.000	
0120	601.0600	Concrete Curb Pedestrian	LF	193.000		193.000	
0122	602.0410	Concrete Sidewalk 5-Inch	SF	15,790.000	320.000	15,470.000	
0124	602.0420	Concrete Sidewalk 7-Inch	SF	3,790.000	590.000	3,200.000	
0126	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	352.000		352.000	
0128	603.8000	Concrete Barrier Temporary Precast Delivered	LF	1,259.000	1,259.000		
0130	603.8125	Concrete Barrier Temporary Precast Installed	LF	1,259.000	1,259.000		
0132	606.0300	Riprap Heavy	CY	23.000		23.000	
0134	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	356.000	129.000	227.000	
0136	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	1,003.000	160.000	843.000	
0138	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	205.000	4.000	201.000	
0140	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	665.000	64.000	601.000	
0142	608.0336	Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	LF	40.000		40.000	

					5992-10-31	5992-10-32	5992-10-33
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
0144	608.0348	Storm Sewer Pipe Reinforced Concrete Class III 48-Inch	LF	576.000		576.000	
0146	608.0354	Storm Sewer Pipe Reinforced Concrete Class III 54-Inch	LF	402.000		402.000	
0148	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	59.000		59.000	
0150	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	8.000		8.000	
0152	608.0430	Storm Sewer Pipe Reinforced Concrete Class IV 30-Inch	LF	318.000	318.000		
0154	608.0448	Storm Sewer Pipe Reinforced Concrete Class IV 48-Inch	LF	465.000		465.000	
0156	611.0420	Reconstructing Manholes	EACH	2.000		2.000	
0158	611.0430	Reconstructing Inlets	EACH	3.000		3.000	
0160	611.0606	Inlet Covers Type B	EACH	1.000	1.000		
0162	611.0609	Inlet Covers Type B-A	EACH	3.000	3.000		
0164	611.0612	Inlet Covers Type C	EACH	2.000	1.000	1.000	
0166	611.0642	Inlet Covers Type MS	EACH	1.000	1.000		
0168	611.0666	Inlet Covers Type Z	EACH	6.000	1.000	5.000	
0170	611.2004	Manholes 4-FT Diameter	EACH	1.000		1.000	
0172	611.2005	Manholes 5-FT Diameter	EACH	4.000	1.000	3.000	
0174	611.2007	Manholes 7-FT Diameter	EACH	1.000		1.000	
0176	611.2066	Manholes 6x6-FT	EACH	6.000		6.000	
0178	611.3003	Inlets 3-FT Diameter	EACH	8.000	4.000	4.000	
0180	611.3004	Inlets 4-FT Diameter	EACH	11.000	2.000	9.000	
0182	611.3220	Inlets 2x2-FT	EACH	1.000	1.000		
0184	611.3230	Inlets 2x3-FT	EACH	18.000		18.000	
0186	611.3901	Inlets Median 1 Grate	EACH	1.000	1.000		
0188	611.8120.S	Cover Plates Temporary	EACH	17.000		17.000	
0190	611.9710	Salvaged Inlet Covers	EACH	6.000		6.000	
0192	611.9800.S	Pipe Grates 01. STA 221+55 NB	EACH	1.000		1.000	
0194	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	2,780.000	2,485.000	295.000	
0196	614.2300	MGS Guardrail 3	LF	107.000		107.000	
0198	614.2620	MGS Guardrail Terminal Type 2	EACH	1.000		1.000	
0200	616.0206	Fence Chain Link 6-FT	LF	1,343.000	1,343.000		
0202	616.0700.S	Fence Safety	LF	3,100.000	100.000	3,000.000	
0204	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5992-10-31	EACH	1.000	1.000		
0206	618.0100	Maintenance And Repair of Haul Roads (project) 02. 5992-10-32	EACH	1.000		1.000	
0208	619.1000	Mobilization	EACH	1.000	0.149	0.851	

					5992-10-31	5992-10-32	5992-10-33
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
0210	620.0200	Concrete Median Blunt Nose	SF	79.000		79.000	
0212	620.0300	Concrete Median Sloped Nose	SF	741.000		741.000	
0214	621.0100	Landmark Reference Monuments	EACH	2.000		2.000	
0216	623.0200	Dust Control Surface Treatment	SY	35,400.000		35,400.000	
0218	624.0100	Water	MGAL	371.000	2.000	369.000	
0220	627.0200	Mulching	SY	790.000	355.000	435.000	
0222	628.1504	Silt Fence	LF	4,100.000	2,800.000	1,300.000	
0224	628.1520	Silt Fence Maintenance	LF	4,100.000	2,800.000	1,300.000	
0226	628.1905	Mobilizations Erosion Control	EACH	12.000		12.000	
0228	628.1910	Mobilizations Emergency Erosion Control	EACH	12.000		12.000	
0230	628.2006	Erosion Mat Urban Class I Type A	SY	9,700.000	7,100.000	2,600.000	
0232	628.7005	Inlet Protection Type A	EACH	54.000	11.000	43.000	
0234	628.7015	Inlet Protection Type C	EACH	28.000	3.000	25.000	
0236	628.7020	Inlet Protection Type D	EACH	33.000	6.000	27.000	
0238	628.7504	Temporary Ditch Checks	LF	20.000	20.000		
0240	628.7560	Tracking Pads	EACH	10.000	4.000	6.000	
0242	629.0210	Fertilizer Type B	CWT	7.800	4.510	3.290	
0244	630.0130	Seeding Mixture No. 30	LB	66.000	66.000		
0246	630.0140	Seeding Mixture No. 40	LB	158.000	64.000	94.000	
0248	630.0200	Seeding Temporary	LB	66.000	66.000		
0250	630.0500	Seed Water	MGAL	300.000	200.000	100.000	
0252	631.0300	Sod Water	MGAL	160.000		160.000	
0254	631.1000	Sod Lawn	SY	6,100.000		6,100.000	
0256	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	1.000		1.000	
0258	634.0620	Posts Wood 4x6-Inch X 20-FT	EACH	5.000		5.000	
0260	637.1220	Signs Type I Reflective SH	SF	371.000		371.000	
0262	637.2210	Signs Type II Reflective H	SF	352.740	7.600	345.140	
0264	637.2215	Signs Type II Reflective H Folding	SF	6.250		6.250	
0266	637.2230	Signs Type II Reflective F	SF	54.000	6.250	47.750	
0268	638.2102	Moving Signs Type II	EACH	15.000	2.000	13.000	
0270	638.2602	Removing Signs Type II	EACH	90.000	4.000	86.000	
0272	638.3000	Removing Small Sign Supports	EACH	26.000	2.000	24.000	
0274	638.4000	Moving Small Sign Supports	EACH	3.000	1.000	2.000	
0276	641.1200	Sign Bridge Cantilevered (structure) 10. S-13-0516	LS	1.000		1.000	
0278	641.1200	Sign Bridge Cantilevered (structure) 14. S-13-0522	LS	1.000		1.000	
0280	641.1200	Sign Bridge Cantilevered (structure) 15. S-13-0523	LS	1.000		1.000	
0282	641.1200	Sign Bridge Cantilevered (structure) 16. S-13-0525	LS	1.000		1.000	
0284	641.1200	Sign Bridge Cantilevered (structure) 17. S-13-0526	LS	1.000		1.000	
0286	641.1200	Sign Bridge Cantilevered (structure) 18. S-13-0527	LS	1.000		1.000	
0288	641.1200	Sign Bridge Cantilevered (structure) 19. S-13-0528	LS	1.000		1.000	

					5992-10-31	5992-10-32	5992-10-33
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
0290	641.8100	Overhead Sign Support (structure) 08. S-13-0514	LS	1.000		1.000	
0292	641.8100	Overhead Sign Support (structure) 09. S-13-0515	LS	1.000		1.000	
0294	641.8100	Overhead Sign Support (structure) 11. S-13-0517	LS	1.000		1.000	
0296	641.8100	Overhead Sign Support (structure) 12. S-13-0518	LS	1.000		1.000	
0298	642.5401	Field Office Type D	EACH	1.000	0.500	0.500	
0300	643.0300	Traffic Control Drums	DAY	58,400.000	3,700.000	54,700.000	
0302	643.0410	Traffic Control Barricades Type II	DAY	4,000.000	100.000	3,900.000	
0304	643.0420	Traffic Control Barricades Type III	DAY	7,100.000	400.000	6,700.000	
0306	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	670.000		670.000	
0308	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	670.000		670.000	
0310	643.0705	Traffic Control Warning Lights Type A	DAY	10,800.000	700.000	10,100.000	
0312	643.0715	Traffic Control Warning Lights Type C	DAY	3,600.000	100.000	3,500.000	
0314	643.0800	Traffic Control Arrow Boards	DAY	1,300.000		1,300.000	
0316	643.0900	Traffic Control Signs	DAY	50,800.000	1,700.000	49,100.000	
0318	643.0920	Traffic Control Covering Signs Type II	EACH	9.000		9.000	
0320	643.1000	Traffic Control Signs Fixed Message	SF	179.000	18.000	161.000	
0322	643.1050	Traffic Control Signs PCMS	DAY	940.000		940.000	
0324	643.1070	Traffic Control Cones 42-Inch	DAY	340.000	340.000		
0326	643.5000	Traffic Control	EACH	2.000	1.000	1.000	
0328	644.1810	Temporary Pedestrian Barricade	LF	3,800.000	800.000	3,000.000	
0330	645.0105	Geotextile Type C	SY	990.000	990.000		
0332	645.0120	Geotextile Type HR	SY	58.000		58.000	
0334	646.1020	Marking Line Epoxy 4-Inch	LF	1,206.000	770.000	436.000	
0336	646.1545	Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	LF	900.000		900.000	
0338	646.1555	Marking Line Grooved Contrast Permanent Tape 4-Inch	LF	50.000		50.000	
0340	646.3020	Marking Line Epoxy 8-Inch	LF	4,553.000		4,553.000	
0342	646.3555	Marking Line Grooved Contrast Permanent Tape 8-Inch	LF	922.000		922.000	
0344	646.5020	Marking Arrow Epoxy	EACH	14.000		14.000	
0346	646.5120	Marking Word Epoxy	EACH	11.000		11.000	
0348	646.6120	Marking Stop Line Epoxy 18-Inch	LF	54.000		54.000	
0350	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	1,703.000		1,703.000	
0352	646.8120	Marking Curb Epoxy	LF	194.000		194.000	
0354	646.8220	Marking Island Nose Epoxy	EACH	10.000		10.000	
0356	646.9000	Marking Removal Line 4-Inch	LF	11,698.000		11,698.000	
0358	646.9010	Marking Removal Line Water Blasting 4-Inch	LF	1,259.000		1,259.000	
0360	646.9100	Marking Removal Line 8-Inch	LF	2,736.000		2,736.000	
0362	646.9110	Marking Removal Line Water Blasting 8-Inch	LF	1,033.000		1,033.000	
0364	646.9200	Marking Removal Line Wide	LF	460.000		460.000	
0366	646.9210	Marking Removal Line Water Blasting Wide	LF	48.000		48.000	
0368	646.9300	Marking Removal Special Marking	EACH	4.000		4.000	

					5992-10-31	5992-10-32	5992-10-33
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
0370	646.9310	Marking Removal Special Marking Water Blasting	EACH	13.000		13.000	
0372	649.0105	Temporary Marking Line Paint 4-Inch	LF	46,358.000		46,358.000	
0374	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	1,352.000		1,352.000	
0376	649.0205	Temporary Marking Line Paint 8-Inch	LF	11,049.000		11,049.000	
0378	649.0250	Temporary Marking Line Removable Tape 8-Inch	LF	321.000		321.000	
0380	649.0505	Temporary Marking Arrow Paint	EACH	11.000		11.000	
0382	649.0550	Temporary Marking Arrow Removable Tape	EACH	3.000		3.000	
0384	649.0605	Temporary Marking Word Paint	EACH	11.000		11.000	
0386	649.0650	Temporary Marking Word Removable Tape	EACH	2.000		2.000	
0388	649.0805	Temporary Marking Stop Line Paint 18-Inch	LF	1,414.000		1,414.000	
0390	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	82.000		82.000	
0392	650.4000	Construction Staking Storm Sewer	EACH	60.000	10.000	50.000	
0394	650.4500	Construction Staking Subgrade	LF	10,700.000	167.000	10,533.000	
0396	650.5000	Construction Staking Base	LF	10,700.000	167.000	10,533.000	
0398	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	11,383.000	967.000	10,416.000	
0400	650.6500	Construction Staking Structure Layout (structure) 01. B-13-0870	LS	1.000	1.000		
0402	650.6500	Construction Staking Structure Layout (structure) 02. R-13-0338	LS	1.000	1.000		
0404	650.6500	Construction Staking Structure Layout (structure) 03. R-13-0339	LS	1.000		1.000	
0406	650.6500	Construction Staking Structure Layout (structure) 04. R-13-0340	LS	1.000	1.000		
0408	650.6500	Construction Staking Structure Layout (structure) 05. R-13-0341	LS	1.000	1.000		
0410	650.6500	Construction Staking Structure Layout (structure) 06. R-13-0342	LS	1.000	1.000		
0412	650.6500	Construction Staking Structure Layout (structure) 07. R-13-0343	LS	1.000	1.000		
0414	650.6500	Construction Staking Structure Layout (structure) 08. S-13-0514	LS	1.000		1.000	
0416	650.6500	Construction Staking Structure Layout (structure) 09. S-13-0515	LS	1.000		1.000	
0418	650.6500	Construction Staking Structure Layout (structure) 10. S-13-0516	LS	1.000		1.000	
0420	650.6500	Construction Staking Structure Layout (structure) 11. S-13-0517	LS	1.000		1.000	
0422	650.6500	Construction Staking Structure Layout (structure) 12. S-13-0518	LS	1.000		1.000	
0424	650.6500	Construction Staking Structure Layout (structure) 14. S-13-0522	LS	1.000		1.000	
0426	650.6500	Construction Staking Structure Layout (structure) 15. S-	LS	1.000		1.000	

					5992-10-31	5992-10-32	5992-10-33
Line	Item	Item Description	Unit	Total	Qty	Qty	Qty
		13-0523					
0428	650.6500	Construction Staking Structure Layout (structure) 16. S-13-0525	LS	1.000		1.000	
0430	650.6500	Construction Staking Structure Layout (structure) 17. S-13-0526	LS	1.000		1.000	
0432	650.6500	Construction Staking Structure Layout (structure) 18. S-13-0527	LS	1.000		1.000	
0434	650.6500	Construction Staking Structure Layout (structure) 19. S-13-0528	LS	1.000		1.000	
0436	650.7000	Construction Staking Concrete Pavement	LF	267.000		267.000	
0438	650.8500	Construction Staking Electrical Installations (project) 01. 5992-10-31	LS	1.000	1.000		
0440	650.8500	Construction Staking Electrical Installations (project) 01. 5992-10-32	LS	1.000		1.000	
0442	650.9000	Construction Staking Curb Ramps	EACH	25.000		25.000	
0444	650.9910	Construction Staking Supplemental Control (project) 01. 5992-10-31	LS	1.000	1.000		
0446	650.9910	Construction Staking Supplemental Control (project) 02. 5992-10-32	LS	1.000		1.000	
0448	650.9920	Construction Staking Slope Stakes	LF	10,103.000	167.000	9,936.000	
0450	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	7,940.000	2,730.000	5,210.000	
0452	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	6,948.000		6,948.000	
0454	652.0325	Conduit Rigid Nonmetallic Schedule 80 2-Inch	LF	1,405.000	25.000	1,380.000	
0456	652.0335	Conduit Rigid Nonmetallic Schedule 80 3-Inch	LF	2,945.000		2,945.000	
0458	652.0605	Conduit Special 2-Inch	LF	100.000	100.000		
0460	652.0615	Conduit Special 3-Inch	LF	200.000		200.000	
0462	652.0800	Conduit Loop Detector	LF	2,880.000		2,880.000	
0464	653.0164	Pull Boxes Non-Conductive 24x42-Inch	EACH	20.000		20.000	
0466	653.0208	Junction Boxes 8x8x8-Inch	EACH	8.000	8.000		
0468	653.0905	Removing Pull Boxes	EACH	24.000		24.000	
0470	654.0110	Concrete Bases Type 10	EACH	3.000		3.000	
0472	654.0113	Concrete Bases Type 13	EACH	3.000		3.000	
0474	655.0230	Cable Traffic Signal 5-14 AWG	LF	5,080.000		5,080.000	
0476	655.0240	Cable Traffic Signal 7-14 AWG	LF	2,905.000		2,905.000	
0478	655.0250	Cable Traffic Signal 9-14 AWG	LF	1,070.000		1,070.000	
0480	655.0260	Cable Traffic Signal 12-14 AWG	LF	2,910.000		2,910.000	
0482	655.0525	Electrical Wire Traffic Signals 6 AWG	LF	1,510.000		1,510.000	
0484	655.0615	Electrical Wire Lighting 10 AWG	LF	5,280.000		5,280.000	
0486	655.0620	Electrical Wire Lighting 8 AWG	LF	10,962.000	3,692.000	7,270.000	
0488	655.0625	Electrical Wire Lighting 6 AWG	LF	32,886.000	11,076.000	21,810.000	
0490	655.0700	Loop Detector Lead In Cable	LF	2,900.000		2,900.000	

					5992-10-31	5992-10-32	5992-10-33
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
0492	655.0800	Loop Detector Wire	LF	7,915.000		7,915.000	
0494	656.0200	Electrical Service Meter Breaker Pedestal (location) 01. 209+21.85	LS	1.000		1.000	
0496	656.0200	Electrical Service Meter Breaker Pedestal (location) 02. 225+39.46 NB	LS	1.000		1.000	
0498	656.0200	Electrical Service Meter Breaker Pedestal (location) 03. 218+14.39	LS	1.000		1.000	
0500	656.0200	Electrical Service Meter Breaker Pedestal (location) 04. 208+65.57	LS	1.000		1.000	
0502	657.0100	Pedestal Bases	EACH	17.000		17.000	
0504	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	51.000	5.000	46.000	
0506	657.0345	Poles Type 9	EACH	3.000		3.000	
0508	657.0355	Poles Type 12	EACH	3.000		3.000	
0510	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	17.000		17.000	
0512	657.0530	Monotube Arms 30-FT	EACH	3.000		3.000	
0514	657.0535	Monotube Arms 35-FT	EACH	3.000		3.000	
0516	657.0810	Luminaire Arms Steel 10-FT	EACH	42.000	4.000	38.000	
0518	658.0173	Traffic Signal Face 3S 12-Inch	EACH	57.000		57.000	
0520	658.0174	Traffic Signal Face 4S 12-Inch	EACH	6.000		6.000	
0522	658.0416	Pedestrian Signal Face 16-Inch	EACH	26.000		26.000	
0524	658.0500	Pedestrian Push Buttons	EACH	20.000		20.000	
0526	658.5069	Signal Mounting Hardware (location) 01. 225+39.64 NB	LS	1.000		1.000	
0528	658.5069	Signal Mounting Hardware (location) 02. 218+14.39 NB	LS	1.000		1.000	
0530	658.5069	Signal Mounting Hardware (location) 03. 208+74.39 NB	LS	1.000		1.000	
0532	659.1115	Luminaires Utility LED A	EACH	46.000	4.000	42.000	
0534	659.1120	Luminaires Utility LED B	EACH	4.000		4.000	
0536	678.0072	Install Fiber Optic Cable Outdoor Plant 72-CT	LF	5,608.000		5,608.000	
0538	690.0150	Sawing Asphalt	LF	8,051.000	221.000	7,830.000	
0540	690.0250	Sawing Concrete	LF	13,045.000	15.000	13,030.000	
0542	715.0415	Incentive Strength Concrete Pavement	DOL	500.000		500.000	
0544	715.0502	Incentive Strength Concrete Structures	DOL	5,376.000	5,376.000		
0546	740.0440	Incentive IRI Ride	DOL	6,570.000	570.000	6,000.000	
0548	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	600.000		600.000	
0550	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	600.000		600.000	
0552	SPV.0035	Special 450. Removal of Excess Amounts of Boulders For Water Main Installation	CY	115.000			115.000
0554	SPV.0045	Special 001. Temporary Crosswalk Access North & East Legs Odana Road	DAY	290.000		290.000	
0556	SPV.0045	Special 002. Temporary Crosswalk Access North Leg Gammon Place	DAY	290.000		290.000	
0558	SPV.0060	Special 001. Root Pruning Existing Terrace Trees	EACH	14.000	1.000	13.000	

					5992-10-31	5992-10-32	5992-10-33
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
0560	SPV.0060	Special 002. Precast Sign Post Base	EACH	23.000	10.000	13.000	
0562	SPV.0060	Special 100. Temporary Drainage Cover for Existing Inlet or Manhole	EACH	6.000		6.000	
0564	SPV.0060	Special 101. Temporary Drainage Cover for Proposed Inlet or Manhole	EACH	13.000		13.000	
0566	SPV.0060	Special 102. Temporarily Drain Between Existing SS Pipe & Proposed SS Pipe	EACH	9.000		9.000	
0568	SPV.0060	Special 103. Temporarily Drain Between Existing SS Pipe & Proposed SS Structure	EACH	3.000		3.000	
0570	SPV.0060	Special 104. Temporary Inlet Connection to Existing Storm Sewer Pipe	EACH	2.000		2.000	
0572	SPV.0060	Special 105. Inlets 5-FT Diameter	EACH	5.000	1.000	4.000	
0574	SPV.0060	Special 106. Inlets 6x6-FT	EACH	1.000		1.000	
0576	SPV.0060	Special 107. Private Storm Sewer Reconnect	EACH	4.000		4.000	
0578	SPV.0060	Special 108. Manhole Covers Type J Special	EACH	12.000	1.000	11.000	
0580	SPV.0060	Special 109. Inlet Covers Type H Special	EACH	32.000	2.000	30.000	
0582	SPV.0060	Special 250. Install City Provided Sign	EACH	10.000	3.000	7.000	
0584	SPV.0060	Special 251. Sign Post Base for Concrete Installation	EACH	2.000		2.000	
0586	SPV.0060	Special 300. Special Marking Arrow Epoxy	EACH	29.000		29.000	
0588	SPV.0060	Special 301. Special Marking Word Epoxy	EACH	14.000		14.000	
0590	SPV.0060	Special 350. Electrical Pullbox Type I	EACH	15.000		15.000	
0592	SPV.0060	Special 351. Electrical Pullbox Type III	EACH	12.000		12.000	
0594	SPV.0060	Special 352. Electrical Pullbox Type V	EACH	24.000		24.000	
0596	SPV.0060	Special 353. Electrical Pullbox Type VII	EACH	5.000		5.000	
0598	SPV.0060	Special 354. Concrete Bases Type G	EACH	17.000		17.000	
0600	SPV.0060	Special 355. Concrete Bases Type LB-2	EACH	11.000	11.000		
0602	SPV.0060	Special 356. Concrete Bases Type LB-3	EACH	41.000	5.000	36.000	
0604	SPV.0060	Special 357. Concrete Bases Type LB-8	EACH	10.000		10.000	
0606	SPV.0060	Special 358. Concrete Bases Type M	EACH	2.000		2.000	
0608	SPV.0060	Special 359. Concrete Bases Type P	EACH	2.000		2.000	
0610	SPV.0060	Special 360. Concrete Bases Offset	EACH	2.000		2.000	
0612	SPV.0060	Special 368. Pole 20-Foot, 11 Gauge, Black, Double Fixture	EACH	1.000	1.000		
0614	SPV.0060	Special 369. Pole 20-Foot, 7 Gauge	EACH	9.000		9.000	
0616	SPV.0060	Special 370. Pole 30-Foot, 7 Gauge Single Simplex	EACH	1.000		1.000	
0618	SPV.0060	Special 371. Pole 30-Foot, 11 Gauge Single Simplex	EACH	40.000	5.000	35.000	
0620	SPV.0060	Special 372. Pole 20-Foot, 11 Gauge, Black, Single Fixture	EACH	10.000	10.000		
0622	SPV.0060	Special 373. Pole 30-Foot, 11 Gauge, Black, Twin Simplex	EACH	1.000		1.000	
0624	SPV.0060	Special 374. Luminaires Path and Mounting Bracket	EACH	11.000	11.000		

					5992-10-31	5992-10-32	5992-10-33
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
0626	SPV.0060	Special 375. Traffic Signal Trombone Arms Aluminum 22-Foot	EACH	3.000		3.000	
0628	SPV.0060	Special 376. Traffic Signal Trombone Arms Aluminum 18-Foot	EACH	2.000		2.000	
0630	SPV.0060	Special 377. Trombone Arms 15-FT	EACH	5.000		5.000	
0632	SPV.0060	Special 378. Traffic Signal Control Cabinet	EACH	2.000		2.000	
0634	SPV.0060	Special 380. Lighting Control Cabinet	EACH	2.000		2.000	
0636	SPV.0060	Special 400. Malfunction Management Unit (MMU)	EACH	2.000		2.000	
0638	SPV.0060	Special 401. Traffic Signal Ethernet Switch	EACH	2.000		2.000	
0640	SPV.0060	Special 402. Backplates Signal Face, 3-Section 12-Inch)	EACH	57.000		57.000	
0642	SPV.0060	Special 403. Backplates Signal Face, 4-Section 12-Inch)	EACH	6.000		6.000	
0644	SPV.0060	Special 404. Luminaires Underpass LED 80W	EACH	14.000	14.000		
0646	SPV.0060	Special 405. Luminaires Underpass LED 160W	EACH	8.000	8.000		
0648	SPV.0060	Special 407. Traffic Signal Controller	EACH	2.000		2.000	
0650	SPV.0060	Special 450. Furnish and Install 16-Inch Water Valve	EACH	1.000			1.000
0652	SPV.0060	Special 451. Cut-In Or Connect To Existing Water System	EACH	2.000			2.000
0654	SPV.0060	Special 452. Adjust Water Valve Box Sections	EACH	30.000			30.000
0656	SPV.0060	Special 500. Adjust MMSD SAS Special	EACH	1.000			1.000
0658	SPV.0060	Special 550. Utility Line Opening (ULO)	EACH	30.000	10.000	20.000	
0660	SPV.0060	Special 650. Fluid Thermal Backfill	EACH	3.000	3.000		
0662	SPV.0090	Special 001. Concrete Curb & Gutter 18-Inch Type D Special	LF	801.000	358.000	443.000	
0664	SPV.0090	Special 002. Concrete Curb & Gutter 24-Inch Type A Special	LF	361.000		361.000	
0666	SPV.0090	Special 003. Concrete Curb & Gutter 24-Inch Type D Special	LF	3,870.000		3,870.000	
0668	SPV.0090	Special 004. Concrete Gutter 24-Inch Type D Special	LF	521.000	521.000		
0670	SPV.0090	Special 005. Concrete Curb & Gutter 30-Inch Type D Special	LF	4,465.000	88.000	4,377.000	
0672	SPV.0090	Special 006. Asphaltic Curb Temporary	LF	1,100.000		1,100.000	
0674	SPV.0090	Special 007. Construction Staking Bike Path	LF	4,382.000	2,325.000	2,057.000	
0676	SPV.0090	Special 250. Sign Post	LF	102.000	92.000	10.000	
0678	SPV.0090	Special 251. Reflective Sign Post	LF	171.000		171.000	
0680	SPV.0090	Special 300. Marking Line Epoxy 6-Inch	LF	2,091.000		2,091.000	
0682	SPV.0090	Special 301. Marking Stop Line Epoxy 24-Inch	LF	471.000		471.000	
0684	SPV.0090	Special 352. Electrical Wire Lighting, 14-3 Grounded	LF	3,264.000	1,644.000	1,620.000	
0686	SPV.0090	Special 450. Furnish and Install 16-Inch Pipe & Fittings	LF	90.000			90.000
0688	SPV.0090	Special 451. Furnish and Install 2-Inch Foam Board Insulation	LF	120.000			120.000

					5992-10-31	5992-10-32	5992-10-33
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
0690	SPV.0090	Special 600. Railing Steel B-13-0870	LF	53.000	53.000		
0692	SPV.0090	Special 650. Railing Steel R-13-0338	LF	96.000	96.000		
0694	SPV.0090	Special 651. Railing Steel R-13-0339	LF	293.000		293.000	
0696	SPV.0090	Special 652. Railing Steel R-13-0340	LF	288.000	288.000		
0698	SPV.0090	Special 653. Railing Steel R-13-0341	LF	303.000	303.000		
0700	SPV.0090	Special 654. Railing Steel R-13-0342	LF	678.000	678.000		
0702	SPV.0090	Special 655. Railing Steel R-13-0343	LF	490.000	490.000		
0704	SPV.0105	Special 002. Temporary Bus Stop Access Substages 1B & 1C	LS	1.000		1.000	
0706	SPV.0105	Special 003. Temporary Bus Stop Access Substages 1D & 1E	LS	1.000		1.000	
0708	SPV.0105	Special 004. Temporary Bus Stop Access Substages 2A, 2B, & 2C	LS	1.000		1.000	
0710	SPV.0105	Special 005. Temporary Bus Stop Access Substage 2D	LS	1.000		1.000	
0712	SPV.0105	Special 006. Project Dewatering (ID 5992-10-31)	LS	1.000	1.000		
0714	SPV.0105	Special 007. Project Dewatering (ID 5992-10-32)	LS	1.000		1.000	
0716	SPV.0105	Special 008. Project Dewatering (ID 5992-10-33)	LS	1.000			1.000
0718	SPV.0105	Special 100. Temp Movable SS Trunkline Drainage Conduit Connected & Sealed At Ends	LS	1.000		1.000	
0720	SPV.0105	Special 101. Temp Drain Existing Inlet To Prop Inlet, STA 222+60'NB' to STA 222+25'NB'	LS	1.000		1.000	
0722	SPV.0105	Special 102. Temporary Inlet Connection To Existing Inlet STA 207+11'NB'	LS	1.000		1.000	
0724	SPV.0105	Special 103. Temporary Inlet Connection To Existing and Proposed SS Pipe STA 224+81'NB'	LS	1.000		1.000	
0726	SPV.0105	Special 104. Storm Sewer Tap	LS	1.000	1.000		
0728	SPV.0105	Special 350. Street Light Removal	LS	1.000		1.000	
0730	SPV.0105	Special 351. Temporary Lighting	LS	1.000		1.000	
0732	SPV.0105	Special 400. Temporary Vehicle Detection (Gammon Rd - Gammon Pl)	LS	1.000		1.000	
0734	SPV.0105	Special 401. Temporary Vehicle Detection (Gammon Road - Odana Road)	LS	1.000		1.000	
0736	SPV.0105	Special 402. Temporary Vehicle Detection (Gammon Rd - WB Beltline Ramp)	LS	1.000		1.000	
0738	SPV.0105	Special 403. Temporary Traffic Signals (Gammon Road - Gammon Pl)	LS	1.000		1.000	
0740	SPV.0105	Special 404. Temporary Traffic Signals (Gammon Road - Odana Rd)	LS	1.000		1.000	
0742	SPV.0105	Special 405. Temporary Traffic Signals (Gammon Road - WB Beltline Ramp)	LS	1.000		1.000	
0744	SPV.0105	Special 406. Traffic Signal Removal	LS	1.000		1.000	
0746	SPV.0105	Special 407. Optical Signal Preempt	LS	1.000		1.000	

					5992-10-31	5992-10-32	5992-10-33
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**	**Qty**
0748	SPV.0105	Special 450. Construction Staking Water Main	LS	1.000			1.000
0750	SPV.0105	Special 500. Construction Staking Sanitary Sewer	LS	1.000			1.000
0752	SPV.0105	Special 700. Overhead Sign Structure Removal (S-13-3063)	LS	1.000		1.000	
0754	SPV.0105	Special 701. Overhead Sign Structure Removal (S-13-3064)	LS	1.000		1.000	
0756	SPV.0105	Special 702. Overhead Sign Structure Removal (S-13-3065)	LS	1.000		1.000	
0758	SPV.0105	Special 703. Overhead Sign Structure Removal (S-13-3066)	LS	1.000		1.000	
0760	SPV.0105	Special 704. Overhead Sign Structure Removal (S-13-3067)	LS	1.000		1.000	
0762	SPV.0105	Special 705. Overhead Sign Structure Removal (S-13-3068)	LS	1.000		1.000	
0764	SPV.0105	Special 706. Overhead Sign Structure Removal (S-13-3069)	LS	1.000		1.000	
0766	SPV.0165	Special 001. Colored Crosswalk Green	SF	2,520.000		2,520.000	
0768	SPV.0165	Special 650. Wall Modular Block Gravity R-13-0341	SF	3,545.000	3,545.000		
0770	SPV.0165	Special 651. Wall Modular Block Gravity R-13-0343	SF	2,290.000	2,290.000		
0772	SPV.0165	Special 652. Wall Modular Block Mechanically Stabilized Earth R-13-0338	SF	1,075.000	1,075.000		
0774	SPV.0165	Special 653. Wall Modular Block Mechanically Stabilized Earth R-13-0339	SF	2,410.000		2,410.000	
0776	SPV.0165	Special 654. Wall Modular Block Mechanically Stabilized Earth R-13-0340	SF	2,330.000	2,330.000		
0778	SPV.0165	Special 655. Wall Modular Block Mechanically Stabilized Earth R-13-0342	SF	3,675.000	3,675.000		
0780	SPV.0180	Special 001. Architectural Concrete Pavement 5-Inch	SY	3,870.000		3,870.000	
0782	SPV.0180	Special 002. Topsoil Special	SY	15,800.000	7,100.000	8,700.000	

CLEARING & GRUBBING

PROJECT NO.	CAT	STA	OFFSET	ALIGN	201.0120 CLEARING ID	201.0220 GRUBBING ID	SPV.0060.001 ROOT PRUNING EXISTING TERRACE TREES ID
PROJECT 5992-10-31							
	0010	303+98	0.9' RT	BP	6	6	-
		304+22	1.0' RT	BP	6	6	-
		309+69	7.2' LT	BP	15	15	-
		310+49	3.6' RT	BP	8	8	-
		310+76	1.3' LT	BP	15	15	-
		50+31	10.1' LT	BH	15	15	-
		60+66	45' LT	PL	18	18	-
		UNDISTRIBUTED			-	-	1
		PROJECT 5992-10-31 TOTALS			83	83	1
PROJECT 5992-10-32							
	0010	209+15	41.2' LT	SB	18	18	-
		209+34	36.2' RT	NB	3	3	-
		209+47	67.6' LT	SB	16	16	-
		209+49	76.8' LT	SB	14	14	-
		209+62	36.4' LT	SB	21	21	-
		209+69	75.0' LT	SB	12	12	-
		209+94	69.5' LT	SB	12	12	-
		209+98	38.8' RT	NB	13	13	-
		210+22	63.8' LT	SB	12	12	-
		210+52	61.8' LT	SB	14	14	-
		210+54	34.6' RT	NB	11	11	-
		211+08	48.3' LT	SB	8	8	-
		211+08	58.8' LT	SB	12	12	-
		211+46	58.2' LT	SB	8	8	-
		211+51	50.4' LT	SB	8	8	-
		211+53	30.5' LT	SB	18	18	-
		211+72	47.5' LT	SB	8	8	-
		211+85	50.5' LT	SB	8	8	-
		211+93	52.0' LT	SB	8	8	-
		211+94	25.8' RT	NB	8	8	-
		211+98	31.1' LT	SB	18	18	-
		212+02	53.2' LT	SB	10	10	-
		212+97	37.0' LT	SB	18	18	-
		213+10	28.2' RT	NB	4	4	-
		213+57	25.8' RT	NB	4	4	-

(CONTINUED)

CLEARING & GRUBBING (CONTINUED)

PROJECT NO.	CAT	STA	OFFSET	ALIGN	201.0120 CLEARING ID	201.0220 GRUBBING ID	SPV.0060.001 ROOT PRUNING EXISTING TERRACE TREES ID
PROJECT 5992-10-32 (CONTINUED)							
		213+61	40.0' LT	SB	16	16	-
		213+71	64.0' LT	SB	8	8	-
		214+63	46.6' LT	SB	12	12	-
		215+13	49.6' LT	SB	15	15	-
		216+13	53.5' LT	SB	13	13	-
		218+63	34.2' LT	SB	12	12	-
		219+62	35.3' LT	SB	15	15	-
		220+13	34.7' LT	SB	18	18	-
		220+65	34.4' LT	SB	13	13	-
		221+38	34.4' LT	SB	2	2	-
		222+23	34.6' LT	SB	13	13	-
		222+72	32.0' LT	SB	2	2	-
		223+38	33.2' LT	SB	18	18	-
		223+86	35.2' LT	SB	18	18	-
		224+43	36.2' LT	SB	17	17	-
		226+66	40.8' LT	SB	18	18	-
		227+23	40.7' LT	SB	18	18	-
		227+72	40.5' LT	SB	17	17	-
		228+24	40.7' LT	SB	14	14	-
		228+73	40.6' LT	SB	14	14	-
		231+73	34.9' LT	SB	17	17	-
		UNDISTRIBUTED			-	-	13
		PROJECT 5992-10-32 TOTALS			576	576	13
		OVERALL PROJECT TOTAL			**659**	**659**	**14**

3

REMOVING PAVEMENT

PROJECT NO.	CAT	STA	TO	STA	ALIGN	LOCATION	204.0100 REMOVING PAVEMENT SY
PROJECT 5992-10-32							
	0010	195+46	-	195+77	WBF	LANE WB OFF RAMP	52
		399+12	-	399+62	WBO	LANE WB ON RAMP	31
		208+08	-	216+00	NB	MEDIAN ISLAND NOSE	12
		207+83	-	216+00	SB	WB ON RAMP/ SB LANES	4492
		208+08	-	216+00	NB	WB OFF RAMP/ NB LANES	4432
		216+00	-	218+25	NB	INTERSECTION	2964
		218+25	-	224+50	NB	LANES	2700
		218+25	-	224+50	SB	LANES	3127
		224+50	-	225+75	NB	INTERSECTION	1479
		225+75	-	229+64	NB	LANES	1237
		225+75	-	229+64	SB	LANES	2117
						PROJECT 5992-10-32 TOTALS	22643
						OVERALL PROJECT TOTAL	**22643**

REMOVING CONCRETE BASE

PROJECT NO.	CAT	DESCRIPTION	204.0195* REMOVING CONCRETE BASES EACH
PROJECT 5992-10-31			
	0010	MIDDLETON GPS (DG4915) BASE STATION WITH GPS-DERIVED ORTHOMETRIC HEIGHT	1
		PROJECT 5992-10-31 SUBTOTAL	1
		OVERALL PROJECT TOTAL	**1**

***ADDITIONAL QUANTITIES LISTED ELSEWHERE**

REMOVING ASPHALTIC SURFACE

PROJECT NO.	CAT	OFFSET	ALIGN	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY
PROJECT 5992-10-31						
	0010	GRAND CANYON DR		-	7	240
		PARKING LOT		410	-	-
		PARKING LOT		166	-	-
		UNDISTRIBUTED		64	3	30
		PROJECT 5992-10-31 TOTALS		640	10	270
PROJECT 5992-10-32						
	0010	-	MA/MAB	420	-	-
		LT	OD	61	-	-
		RT	OD	78	-	-
		LT	MB	70	-	-
		RT	MB	37	-	-
		-	PL	170	-	-
		LT	WBO	274	-	-
		LT	WBF	701	-	-
		RT	WBF	1371	-	-
		GAMMON MEDIAN		1996	-	-
		GAMMON MEDIAN STAGING		1167	-	-
		CURB RAMP WEDGE-ODANA		-	56	-
		CURB RAMP WEDGE-GAMMON PL		-	67	-
		MANHOLES		-	3	-
		UNDISTRIBUTED		655	14	0
		PROJECT 5992-10-32 TOTALS		7000	140	0
		OVERALL PROJECT TOTAL		**7640**	**150**	**270**

REMOVING FENCE

PROJECT NO.	CAT	STA	TO	STA	OFFSET	ALIGN	204.0170 REMOVING FENCE LF
PROJECT 5992-10-31							
	0010	294+00	-	294+75	LT	BP	75
		300+00	-	303+00	LT	BP	297
		303+00	-	313+90	RT	BP	1091
						PROJECT 5992-10-31 TOTALS	1463
						PROJECT TOTAL	**1463**

REMOVING GUARDRAIL

PROJECT NO.	CAT	STA	TO	STA	OFFSET	ALIGN	204.0165 REMOVING GUARDRAIL LF	COMMENTS
PROJECT 5992-10-32								
	0010	197+87	-	197+93	LT	WBF	8	REMOVE OLD TYPE 2
						PROJECT 5992-10-32 TOTALS	8	
						PROJECT TOTAL	**8**	

3

REMOVING CURB & GUTTER AND SIDEWALK

PROJECT NO.	CAT	STA	TO	STA	204.0140 REMOVING GUTTER LF	204.0150 REMOVING CURB & GUTTER LF	204.0155 REMOVING CONCRETE SIDEWALK SY
PROJECT 5992-10-31							
	0010	312+57 LT 'BP'	-	313+16 LT 'BP'	-	72	-
		312+92 LT 'BP'	-	313+89 RT 'BP'	-	268	-
		313+40 LT 'BP'	-	313+49 LT 'BP'	-	16	-
		313+07 LT 'BP'	-	314+56 LT 'BP'	-	81	-
		313+16 RT 'BP'	-	314+76 RT 'BP'	56	-	-
				PROJECT 5992-10-31 TOTALS	56	437	0
PROJECT 5992-10-32							
	0010	206+15 RT 'NB'	-	197+44 RT 'WBF'	-	350	-
		196+17 RT 'WBF'	-	196+46 RT 'WBF'	-	-	76
		206+15 LT 'NB'	-	207+15 LT 'NB'	-	100	232
		206+15 LT 'SB'	-	207+15 LT 'SB'	-	100	83
		206+37 LT 'SB'	-	399+05 RT 'WBO'	-	136	-
		399+46 RT 'WBO	-	399+66 RT 'WBO'	-	-	14
		208+52 RT 'NB'	-	213+00 RT 'NB'	-	-	250
		208+24 LT 'SB'	-	216+80 LT 'SB'	-	-	490
		214+78 LT 'NB'	-	217+08 LT 'NB'	-	-	150
		215+06 LT 'NB'	-	217+04 LT 'NB'	-	-	42
		216+04 LT 'SB'	-	216+53 LT 'SB'	-	-	12
		216+76 LT 'SB'	-	217+22 LT 'SB'	-	-	34
		216+94 RT 'NB'	-	217+25 RT 'NB'	-	-	54
		218+01 LT 'SB'	-	224+91 LT 'SB'	-	-	400
		218+09 RT 'NB'	-	218+48 RT 'NB'	-	-	46

(CONTINUED)

REMOVING CURB & GUTTER AND SIDEWALK (CONTINUED)

PROJECT NO.	CAT	STA	TO	STA	204.0140 REMOVING GUTTER LF	204.0150 REMOVING CURB & GUTTER LF	204.0155 REMOVING CONCRETE SIDEWALK SY
PROJECT 5992-10-32							
		218+24 RT 'SB'	-	220+41 RT 'SB'	-	-	120
		218+25 RT 'SB'	-	220+26 RT 'SB'	-	-	86
		224+66 RT 'NB'	-	224+92 RT 'NB'	-	-	14
		225+62 RT 'SB'	-	225+69 RT 'SB'	-	-	6
		225+40 RT 'NB'	-	225+81 RT 'NB'	-	-	46
		225+68 LT 'SB'	-	231+71 LT 'SB'	-	-	332
		229+64 LT 'NB'	-	231+45 LT 'NB'	-	181	-
		229+65 RT 'SB'	-	231+45 RT 'SB'	-	180	-
		798+76 RT 'MA'	-	799+40 RT 'MA'	-	68	-
		798+80 LT 'MA'	-	799+55 LT 'MA'	-	61	-
		799+03 RT 'MA'	-	799+50 RT 'MA'	-	60	-
		799+03 RT 'MA'	-	799+55 RT 'MA'	-	52	-
		799+33 LT 'MA'	-	799+48 LT 'MA'	-	15	-
		799+33 RT 'MA'	-	799+53 LT 'MA'	-	20	-
		500+54 LT 'OD'	-	500+58 LT 'OD'	-	8	-
		500+55 RT 'OD'	-	500+58 RT 'OD'	-	4	-
		500+55 LT 'OD'	-	500+58 LT 'OD'	-	4	-
		899+34 RT 'MB'	-	899+49 RT 'MB'	-	14	-
		899+34 LT 'MB'	-	899+49 LT 'MB'	-	28	-
		899+35 LT 'MB'	-	899+69 LT 'MB'	-	-	18
		899+48 LT 'MB'	-	899+74 LT 'MB'	-	-	31
		898+76 LT 'MB'	-	899+49 LT 'MB'	-	77	-
		600+36 RT 'GP'	-	600+75 RT 'GP'	-	38	-
		600+38 LT 'GP'	-	600+75 LT 'GP'	-	38	-
				PROJECT 5992-10-32 TOTALS	0	1534	2536
				OVERALL PROJECT TOTAL	**56**	**1971**	**2536**

STORM SEWER REMOVALS

PROJECT NO.	CAT	STA	OFFSET	ALIGN	TO	STA	OFFSET	ALIGN	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH	204.0245.01 REMOVING STORM SEWER 12-INCH LF	204.0245.02 REMOVING STORM SEWER 15-INCH LF	204.0245.03 REMOVING STORM SEWER 18-INCH LF	204.0245.04 REMOVING STORM SEWER 24-INCH LF	204.0245.05 REMOVING STORM SEWER 30-INCH LF	204.0245.06 REMOVING STORM SEWER 36-INCH LF	204.0291.S ABANDONING SEWER CY	204.0260 ABANDONING INLETS EACH	204.0250 ABANDONING MANHOLES EACH
PROJECT 5992-10-31																			
	0011	195+65	36' LT	WBF	-	197+48	25.3' LT	WBF	-	1	-	-	-	73	-	-	-	-	-
		196+49	34.6' LT	WBF	-	195+69	36.3' LT	WBF	-	1	-	-	-	97	-	-	-	-	-
		196+50	34.6' LT	WBF	-	196+50	30.0' LT	WBF	-	1	6	-	-	-	-	-	-	-	-
						PROJECT 5992-10-31 TOTALS			0	3	6	0	0	170	0	0	0	0	0
PROJECT 5992-10-32																			
	0011	399+52	1.3' RT	WBO	-	399+59	19.5' LT	WBO	-	2	-	-	-	-	23	-	-	-	-
		399+59	19.5' LT	WBO	-	210+32	39.4' LT	SB	1	-	-	-	-	-	214	-	-	-	-
		210+32	39.4' LT	SB	-	210+30	27.0' LT	SB	-	1	-	-	-	-	12	-	-	-	-
		210+30	27.0' LT	SB	-	210+31	25.0' RT	SB	-	1	-	-	-	-	54	-	-	-	-
		210+31	25.0' RT	SB	-	210+30	31.9' RT	SB	1	-	-	-	-	-	6	-	-	-	-
		210+30	31.9' RT	SB	-	210+31	15.2' LT	NB	-	1	-	-	-	13	-	-	-	-	-
		210+31	15.2' LT	NB	-	210+33	24.5' RT	NB	-	1	-	-	-	41	-	-	-	-	-
		210+33	24.5' RT	NB	-	210+35	39.0' RT	NB	1	-	-	-	-	30	-	-	-	-	-
		210+35	39.0' RT	NB	-	208+52	67.8' RT	NB	-	1	-	-	-	183	-	-	-	-	-
		208+52	67.8' RT	NB	-	208+44	60.3' RT	NB	-	3	-	-	21	-	-	-	-	-	-
		210+30	31.9' RT	SB	-	213+74	17.3' LT	NB	1	-	-	-	-	-	346	-	-	-	-
		213+72	10.8' RT	SB	-	213+67	35.0' LT	SB	-	1	48	-	-	-	-	-	-	-	-
		213+72	30.2' LT	NB	-	213+72	10.8' RT	SB	-	1	19	-	-	-	-	-	-	-	-
		213+74	17.3' LT	NB	-	213+72	30.2' LT	NB	-	1	15	-	-	-	-	-	-	-	-
		213+74	17.3' LT	NB	-	213+76	24.2' RT	NB	-	1	41	-	-	-	-	-	-	-	-
		213+74	17.3' LT	NB	-	216+90	20.2' LT	NB	1	-	-	-	-	-	315	-	-	-	-
		216+90	20.2' LT	NB	-	216+91	37.4' LT	NB	-	1	18	-	-	-	-	-	-	-	-
		216+91	37.4' LT	NB	-	216+92	5.6' RT	SB	-	1	6	-	-	-	-	-	-	-	-
		216+92	5.6' RT	SB	-	216+64	55.3' LT	SB	-	1	68	-	-	-	-	-	-	-	-
		216+90	20.2' LT	NB	-	218+24	28.3' RT	SB	1	-	-	-	-	-	135	-	-	-	-
		218+24	28.3' RT	SB	-	500+33	4.4' LT	OD	1	-	84	-	-	-	-	-	-	-	-
		500+33	4.4' LT	OD	-	500+45	3.9' RT	OD	1	-	-	-	14	-	-	-	-	-	-
		500+33	4.4' LT	OD	-	500+45	8.8' LT	OD	-	1	12	-	-	-	-	-	-	-	-
		500+33	4.4' LT	OD	-	500+39	28.3' RT	OD	1	0	34	-	-	-	-	-	-	-	-
		500+39	28.3' RT	OD	-	500+51	29.0' RT	OD	-	1	12	-	-	-	-	-	-	-	-
		500+39	28.3' RT	OD	-	217+08	24.8' RT	NB	-	1	24	-	-	-	-	-	-	-	-
		218+24	28.3' RT	SB	-	799+64	11.6' LT	MA	1	-	-	-	87	-	-	-	-	-	-
		799+64	11.6' LT	MA	-	799+47	0.0' LT	MA	-	1	20	-	-	-	-	-	-	-	-
		799+64	11.6' LT	MA	-	217+13	32.3' LT	SB	-	1	55	-	-	-	-	-	-	-	-
		799+00	50.8' RT	MA	-	799+10	1.7' LT	MA	-	1	54	-	-	-	-	-	-	-	-

CONTINUED ON NEXT SHEET

3

STORM SEWER REMOVALS (CONTINUED)

PROJECT NO.	CAT	STA	OFFSET	ALIGN	TO	STA	OFFSET	ALIGN	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH	204.0245.01 REMOVING STORM SEWER 12-INCH LF	204.0245.02 REMOVING STORM SEWER 15-INCH LF	204.0245.03 REMOVING STORM SEWER 18-INCH LF	204.0245.04 REMOVING STORM SEWER 24-INCH LF	204.0245.05 REMOVING STORM SEWER 30-INCH LF	204.0245.06 REMOVING STORM SEWER 36-INCH LF	204.0291.S ABANDONING SEWER CY	204.0260 ABANDONING INLETS EACH	204.0250 ABANDONING MANHOLES EACH
PROJECT 5992-10-32 (CONTINUED)																			
		799+10	1.7' LT	MA	-	799+13	43.7' LT	MA	-	-	-	-	-	-	-	-	1	-	-
		207+40	105' RT	NB	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-
		218+24	28.3' RT	SB	-	221+28	25.7' RT	SB	-	-	-	-	-	-	-	303	-	-	-
		221+28	25.7' RT	SB	-	221+62	50.5' RT	NB	-	-	-	-	-	-	-	81	3	-	-
		221+40	20.0' RT	SB	-	221+63	26.1' RT	SB	-	1	-	25	-	-	-	-	1	-	-
		221+86	50.6' RT	NB	-	222+23	15.3' LT	NB	1	-	-	-	-	75	-	-	-	-	-
		222+23	15.3' LT	NB	-	221+94	19.3' LT	NB	-	1	-	29	-	-	-	-	-	-	-
		221+94	19.3' LT	NB	-	221+95	24.1' RT	NB	-	1	-	45	-	-	-	-	-	-	-
		221+95	24.1' RT	NB	-	221+91	24.1' RT	NB	-	1	-	4	-	-	-	-	-	-	-
		222+23	15.3' LT	NB	-	222+60	11.8' RT	SB	-	1	-	44	-	-	-	-	-	-	-
		222+60	11.8' RT	SB	-	222+61	24.0' LT	SB	-	1	-	37	-	-	-	-	-	-	-
		222+61	24.0' LT	SB	-	222+57	24.2' LT	SB	-	1	-	4	-	-	-	-	-	-	-
		222+23	15.3' LT	NB	-	224+80	17.7' LT	NB	1	-	-	-	257	-	-	-	2	-	-
		225+18	17.7' LT	NB	-	899+71	4.4' LT	MB	-	1	-	56	-	-	-	-	-	-	-
		899+71	4.4' LT	MB	-	225+92	36.8' LT	SB	-	1	72	-	-	-	-	-	-	-	-
		899+29	40.9' LT	MB	-	899+29	32.6' LT	MB	-	1	9	-	-	-	-	-	-	-	-
		225+18	17.7' LT	NB	-	225+53	16.6' LT	NB	-	1	37	-	-	-	-	-	-	-	1
		225+18	17.7' LT	NB	-	600+30	13.2' LT	GP	-	-	-	-	-	-	-	-	2	-	-
		600+30	13.2' LT	GP	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
		600+30	13.2' LT	GP	-	600+67	23.3' LT	GP	-	1	38	-	-	-	-	-	-	-	-
		600+30	13.2' LT	GP	-	225+79	24.0' RT	NB	-	1	54	-	-	-	-	-	-	-	-
PROJECT 5992-10-32 TOTALS									12	36	720	244	389	342	1105	384	9	1	1
OVERALL PROJECT TOTAL									**12**	**39**	**726**	**244**	**389**	**512**	**1105**	**384**	**9**	**1**	**1**

EARTHWORK SUMMARY

PROJECT NO.	CAT	STAGE	STA	TO	STA	ALI	LOCATION	205.0100 EXCAVATION COMMON CUT (1) CY	UNUSABLE PAVEMENT MATERIAL CY	UNEXPANDED FILL CY	MASS ORDINATE +/- (2) CY
5992-10-31											
	0010	PHASE A	294+50	-	314+75	BP	BIKE PATH	6,290	0	134	6,156
		PHASE A	33+50	-	35+00	BD		209	0	8	201
		PHASE A	208+75	-	211+75	BC		903	0	120	783
		PHASE A		-		PL	PARKING LOT	366	0	15	351
							PROJECT 5992-10-31 TOTAL	7,768			
5992-10-32											0
	0010	1	208+03	-	231+75	SB	GAMMON RD	8,596	2,586	217	5,793
		1	798+90	-	799+75	MA		396	26	3	367
		1	215+65	-	217+43	MAB		450	49	0	401
		1	898+78	-	899+60	MB		228	51	9	168
		1	207+50	-	213+50	WBF		1,434	48	0	1,386
		1	205+82	-	207+25	WBO		203	11	0	192
		1	399+27	-	400+50	WBO		321	70	5	246
		1	205+82	-	207+25	WBO		0	0	203	-203
		1	206+63	-	209+25	WBF		527	20	2	505
		2	208+07	-	229+60	NB		6,510	1,837	248	4,425
		2	600+28	-	600+73	GP		199	14	0	185
		2	500+30	-	500+72	OD		296	74	1	221
		2	208+10	-	229+60	NB		2,785	786	104	1,895
		2	206+63	-	209+25	WBF		2	0	527	-525
		2	208+10	-	231+75	SB		2,340	646	50	1,644
		2	195+00	-	197+58	WBF		564	192	248	124
							PROJECT 5992-10-32 TOTAL	24,851			
							OVERALL PROJECT TOTAL	**32619**			

(1) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.

(2) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION. MASS ORDINATE = CUT + EBS EXC - 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 USED ON SITE. MASS ORDINATE BASED ON EXCAVATION COMMON - UNEXPANDED FILL.

BASE AGGREGATE MATERIAL

PROJECT NO.	CAT	STA	TO	STA	ALI	LOCATION	305.0120* BASE AGGREGATE DENSE 1 1/4-INCH TON	305.0130* BASE AGGREGATE DENSE 3-INCH TON	624.0100 WATER MGAL
PROJECT 5992-10-31									
	0010	60+34	-	61+99	PL	PARKING LOT	230	0	2
	UNDISTRIBUTED						23	0	0
		PROJECT 5992-10-31 TOTALS					253	0	2
PROJECT 5992-10-32									
	0010	207+75	-	216+00	SB	WB ON RAMP/ SB LANES	3040	3340	64
		207+90	-	216+00	NB	WB OFF RAMP/ NB LANES	3300	3630	69
		216+00	-	218+25	NB	INTERSECTION	2300	2530	48
		218+25	-	224+50	NB	LANES	1850	2040	39
		218+25	-	224+50	SB	LANES	2030	2230	43
		224+50	-	225+75	NB	INTERSECTION	1120	1230	24
		225+75	-	229+64	NB	LANES	960	1060	20
		225+75	-	229+64	SB	LANES	1350	1490	28
		UNDISTRIBUTED					1600	1760	34
		PROJECT 5992-10-32 TOTALS					17550	19310	369
		OVERALL PROJECT TOTAL					**17803**	**19310**	**371**

***ADDITIONAL QUANTITIES LISTED ELSEWHERE**

RIPRAP AND GEOTEXTILE FABRIC

PROJECT NO.	CAT	DESCRIPTION	STA	OFFSET	ALIGN	606.0300 RIPRAP HEAVY CY	645.0120 GEOTEXTILE FABRIC TYPE HR SY
PROJECT 5992-10-32							
	011		221+60	60' RT	NB	23	58
PROJECT 5992-10-32 SUBTOTAL						23	58
OVERALL PROJECT TOTAL						**23**	**58**

3

CONCRETE PAVEMENT ITEMS

PROJECT NO.	CAT	STA	TO	STA	OFFSET	ALI	LOCATION	415.0090 CONCRETE PAVEMENT 9-INCH SY	415.1090 CONCRETE PAVEMENT HES 9-INCH SY	416.0610* DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH
PROJECT 5992-10-32											
	0010	196+17	-	197+58		WBF	LANES WB OFF RAMP	-	339	55	21
		399+12	-	399+62		WBO	LANE WB ON RAMP	28	-	26	6
		228+89	-	229+64	LT	NB	INNER LANE	92	-	30	9
							PROJECT 5992-10-32 TOTALS	120	339	112	35
							OVERALL PROJECT TOTAL	**120**	**339**	**112**	**35**

***ADDITIONAL QUANTITIES LISTED ELSEWHERE**

3

CONCRETE DRIVEWAYS

PROJECT NO.	CAT	STA	TO	STA	OFFSET	ALI	305.0120* BASE AGGREGATE DENSE 1 1/4-INCH TON	416.0170 CONCRETE DRIVEWAY 7-INCH SY
PROJECT 5992-10-31								
	0010	60+18	-	60+30	RT	PL	14	41
	UNDISTRIBUTED						1	4
							PROJECT 5992-10-31 TOTALS	15	45
PROJECT 5992-10-32								
	0010	215+20	-	215+65	RT	NB	10	30
		218+79	-	219+19	RT	NB	8	25
		219+68	-	220+12	RT	NB	9	27
	UNDISTRIBUTED						3	8
							PROJECT 5992-10-32 TOTALS	30	90
							OVERALL PROJECT TOTAL	**45**	**135**

***ADDITIONAL QUANTITIES LISTED ELSEWHERE**

3

ASPHALT PAVEMENT ITEMS

PROJECT NO.	CAT	STA	TO	STA	ALI	LOCATION	450.4000 HMA COLD WEATHER PAVING TON	455.0605 TACK COAT GAL	460.6223 HMA PAVEMENT 3 MT 58-28 S TON	460.6424 HMA PAVEMENT 4 MT 58-28 H TON	465.0105* ASPHALTIC SURFACE TON	465.0110 ASPHALTIC SURFACE PATCHING TON
PROJECT 5992-10-31												
	0010	60+06	-	60+20	PL	GRAND CANYON DR.	-	1	-	-	4	-
		60+17	-	60+85	PL	GRAND CANYON DR.	-	-	-	-	1	-
		60+34	-	61+99	PL	PARKING LOT	-	-	-	-	110	-
						GRAND CANYON DR.	-	17	-	-	30	-
		UNDISTRIBUTED					-	-	-	-	-	-
						PROJECT 5992-10-31 TOTALS	0	18	0	0	145	0
PROJECT 5992-10-32												
	0010	195+46	-	195+77	WBF	LANE WB OFF RAMP	6	7	14	6	-	-
		207+83	-	216+00	SB	WB ON RAMP/ SB LANES	500	629	1,200	500	-	-
		208+08	-	216+00	NB	WB OFF RAMP/ NB LANES	510	644	1,220	510	-	-
		216+00	-	218+25	NB	INTERSECTION	390	486	924	390	-	-
		218+25	-	224+50	NB	LANES	300	377	716	300	-	-
		218+25	-	224+50	SB	LANES	350	436	828	350	-	-
		224+50	-	225+75	NB	INTERSECTION	200	251	477	200	-	-
		225+75	-	228+89	NB	LANES	150	184	350	150	-	-
		225+75	-	229+64	SB	LANES	230	289	549	230	-	-
		UNDISTRIBUTED					-	-	-	-	-	10
						PROJECT 5992-10-32 TOTALS	2636	3303	6278	2636	0	10
						OVERALL PROJECT TOTAL	**2636**	**3321**	**6278**	**2636**	**145**	**10**

***ADDITIONAL QUANTITIES LISTED ELSEWHERE**

3

3

ASPHALTIC SURFACE TEMPORARY

PROJECT NO.	CAT	STA	305.0120* BASE AGGREGATE DENSE 1 1/4-INCH TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON	SPV.0090.006 ASPHALTIC CURB TEMPORARY LF	650.4500* CONSTRUCTION STAKING SUBGRADE LF	650.5000* CONSTRUCTION STAKING BASE LF	650.9920* CONSTRUCTION STAKING SLOPE STAKES LF
PROJECT 5992-10-32								
	0010	STAGE 1A	5407	2433	187	2976	2976	2976
		STAGE 1B	104	46	-	-	-	-
		STAGE 1E	98	44	-	-	-	-
		STAGE 1F	1997	898	828	1520	1520	1520
		STAGE 2B	206	92	-	-	-	-
		STAGE 2C	4	1	-	-	-	-
		STAGE 2D	219	98	-	-	-	-
		STAGE 3A	278	125	-	159	159	159
		CURB RAMP WEDGE-ODANA	-	3	-	-	-	-
		CURB RAMP WEDGE-GAMMON PL	-	4	-	-	-	-
		MANHOLES	-	1	-	-	-	-
		UNDISTRIBUTED	887	63	85	45	45	45
		PROJECT 5992-10-32 TOTALS	**9200**	**3800**	**1100**	**4700**	**4700**	**4700**
		OVERALL PROJECT TOTAL	**9200**	**3800**	**1100**	**4700**	**4700**	**4700**

***ADDITIONAL QUANTITIES LISTED ELSEWHERE**

3

CONCRETE CURB & GUTTER

PROJECT NO.	CAT	STA	TO	STA	LOCATION	*416.0610 DRILLED TIE BARS EACH	SPV.0090.001 CONCRETE CURB & GUTTER 18-INCH TYPE D SPECIAL LF	SPV.0090.002 CONCRETE CURB & GUTTER 24-INCH TYPE A SPECIAL LF	SPV.0090.003 CONCRETE CURB & GUTTER 24-INCH TYPE D SPECIAL LF	SPV.0090.004 CONCRETE GUTTER 24-INCH TYPE D SPECIAL LF	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	SPV.0090.005 CONCRETE CURB & GUTTER 30-INCH TYPE D SPECIAL LF	601.0600 CONCRETE CURB PEDESTRIAN LF	650.5500 CONCRETE STAKING CURB AND GUTTER LF
PROJECT 5992-10-31															
	0010	298+25 RT 'BP'	-	301+15 RT 'BP'		-	-	-	-	288	-	-	-	-	288
		312+60 RT 'BP'	-	11+70 RT 'BJ'		-	-	-	-	163	-	-	-	-	163
		11+70 LT 'BJ'	-	314+76 RT 'GP'		-	-	-	-	70	-	-	-	-	70
		60+10 RT 'PL'	-	60+23 LT 'PL'		-	-	-	-	-	-	-	88	-	88
		60+30 RT 'PL'	-	61+99 RT 'PL'		-	178	-	-	-	-	-	-	-	178
		60+34 LT 'PL'	-	61+44 LT 'PL'		-	180	-	-	-	-	-	-	-	180
					PROJECT 5992-10-31 TOTALS	0	358	0	0	521	0	0	88	0	967
PROJECT 5992-10-32															
	0010	206+15 RT 'NB'	-	197+44 RT 'WBF'	OUTSIDE LANE CURB	140	-	-	-	-	349	-	-	-	349
		206+15 LT 'NB'	-	207+15 LT 'NB'	MEDIAN ISLAND	40	-	-	-	-	100	-	-	-	100
		206+15 LT 'SB'	-	207+15 LT 'SB'	MEDIAN ISLAND	40	-	-	-	-	100	-	-	-	100
		206+37 LT 'SB'	-	399+19 RT 'WBO'	OUTSIDE LANE CURB	62	-	-	-	-	154	-	-	-	154
		398+88 RT 'WBO'	-	399+19 RT 'WBO'	OUTSIDE LANE CURB	16	-	-	-	-	-	39	-	-	39
		195+47 RT 'WBF'	-	195+73 RT 'WBF'	SPLITTER ISLAND	-	-	-	-	-	-	39	-	-	39
		195+48 RT 'WBF	-	196+11 RT 'WBF'	SPLITTER ISLAND	-	-	-	-	-	-	64	-	-	64
		195+58 RT 'WBF'	-	195+67 RT 'WBF'	SPLITTER ISLAND	-	-	-	-	-	-	-	-	31	31
		195+73 RT 'WBF'	-	196+11 RT 'WBF'	SPLITTER ISLAND	16	-	-	-	-	40	-	-	-	40
		399+30 RT 'WBO'	-	208+06 LT 'SB'	SPLITTER ISLAND	22	-	-	-	-	56	-	-	-	56
		399+30 RT 'WBO'	-	399+94 RT 'WBO'	SPLITTER ISLAND	-	-	-	-	-	-	64	-	-	64
		399+50 RT 'WBO'	-	399+65 RT 'WBO'	SPLITTER ISLAND	-	-	-	-	-	-	-	-	42	42
		208+06 LT 'SB'	-	208+35 LT 'SB'	SPLITTER ISLAND	-	-	-	-	-	-	29	-	-	29
		196+17 LT 'WBF'	-	197+58 LT 'WBF'	OUTSIDE LANE CURB	46	-	-	-	-	138	-	-	-	138
		196+17 LT 'WBF'	-	500+58 RT 'OD'	OUTSIDE LANE CURB	-	-	-	-	-	-	-	983	-	983
		399+25 LT 'WBO'	-	798+76 RT 'MA'	OUTSIDE LANE CURB	-	-	-	-	-	-	-	953	-	953
		208+17 LT 'NB	-	216+98 LT 'NB'	MEDIAN ISLAND	-	-	-	882	-	-	-	-	-	882
		208+17 RT 'SB'	-	216+98 RT 'SB'	MEDIAN ISLAND	-	-	-	879	-	-	-	-	-	879
		216+08 LT 'SB'	-	217+22 LT 'SB'	SPLITTER ISLAND	-	-	-	-	-	-	-	117	-	117
		216+08 LT 'SB'	-	799+06 RT 'MA'	SPLITTER ISLAND	-	140	-	-	-	-	-	-	-	140
		798+80 LT 'MA'	-	799+49 LT 'MA'	S. CURB MEDIAN ISLAND	-	61	-	-	-	-	-	-	-	61
		799+06 RT 'MA'	-	799+71 RT 'MA'	SPLITTER ISLAND	-	65	-	-	-	-	-	-	-	65
		799+33 LT 'MA'	-	799+49 LT 'MA'	N. CURB MEDIAN ISLAND	-	15	-	-	-	-	-	-	-	15
		216+81 LT 'SB'	-	217+23 LT 'SB'	SPLITTER ISLAND	-	-	-	-	-	-	-	-	85	85
		500+45 LT 'OD'	-	500+58 LT 'OD'	N. CURB MEDIAN ISLAND	-	-	-	-	-	-	-	13	-	13
		500+45 LT 'OD'	-	500+58 LT 'OD'	S. CURB MEDIAN ISLAND	-	-	-	-	-	-	-	13	-	13
		500+59 LT 'OD'	-	600+75 RT 'GP'	OUTSIDE LANE CURB	-	-	-	-	-	-	-	750	-	750
		218+32 LT 'NB'	-	224+78 LT 'NB'	MEDIAN ISLAND	-	-	-	647	-	-	-	-	-	647
		218+32 RT 'SB'	-	224+78 RT 'SB'	MEDIAN ISLAND	-	-	-	648	-	-	-	-	-	648
		799+33 LT 'MA'	-	799+51 LT 'MA'	OUTSIDE LANE CURB	-	18	-	-	-	-	-	-	-	18

(CONTINUED ON NEXT SHEET)

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CONCRETE CURB & GUTTER (CONTINUED)

PROJECT NO.	CAT	STA	TO	STA	LOCATION	*416.0610 DRILLED TIE BARS EACH	SPV.0090.001 CONCRETE CURB & GUTTER 18-INCH TYPE D SPECIAL LF	SPV.0090.002 CONCRETE CURB & GUTTER 24-INCH TYPE A SPECIAL LF	SPV.0090.003 CONCRETE CURB & GUTTER 24-INCH TYPE D SPECIAL LF	SPV.0090.004 CONCRETE GUTTER 24-INCH TYPE D SPECIAL LF	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	SPV.0090.005 CONCRETE CURB & GUTTER 30-INCH TYPE D SPECIAL LF	601.0600 CONCRETE CURB PEDESTRIAN LF	650.5500 CONCRETE STAKING CURB AND GUTTER LF
PROJECT 5992-10-32 (CONTINUED)															
		799+51 LT 'MA'	-	899+46 RT 'MB'	OUTSIDE LANE CURB	-	-	-	-	-	-	-	723	-	723
		224+72 LT 'NB'	-	224+77 RT 'NB'	MEDIAN	-	-	-	-	-	-	-	-	11	11
		898+76 LT 'MB'	-	899+36 LT 'MB'	OUTSIDE LANE CURB	-	60	-	-	-	-	-	-	-	60
		899+51 LT 'MB'	-	899+61 LT 'MB'	MEDIAN	-	72	-	-	-	-	-	-	10	82
		899+35 RT 'MB'	-	899+46 RT 'MB'	OUTSIDE LANE CURB	-	12	-	-	-	-	-	-	-	12
		899+36 LT 'MB'	-	229+65 LT 'SB'	OUTSIDE LANE CURB	-	-	-	-	-	-	-	434	-	434
		600+75 LT 'GP'	-	228+89 RT 'NB'	OUTSIDE LANE CURB	-	-	-	-	-	-	-	391	-	391
		225+58 LT 'NB'	-	229+64 LT 'NB'	MEDIAN ISLAND	-	-	-	406	-	-	-	-	-	406
		225+58 LT 'SB'	-	229+65 RT 'SB'	MEDIAN ISLAND	-	-	-	408	-	-	-	-	-	408
		225+68 LT 'NB'	-	225+73 LT 'NB'	MEDIAN ISLAND	-	-	-	-	-	-	-	-	14	14
		229+64 LT 'NB'	-	231+45 LT 'NB'	MEDIAN ISLAND	72	-	181	-	-	-	-	-	-	181
		229+65 RT 'SB'	-	231+45 RT 'SB'	MEDIAN ISLAND	72	-	180	-	-	-	-	-	-	180
					PROJECT 5992-10-32 TOTALS	526	443	361	3870	0	937	235	4377	193	10416
					OVERALL PROJECT TOTAL	**526**	**801**	**361**	**3870**	**521**	**937**	**235**	**4465**	**193**	**11383**

***ADDITIONAL QUANTITIES LISTED ELSEWHERE**

SHARED-USE PATH AND CONCRETE SIDEWALK

PROJECT NO.	CAT	STA	TO	STA	OFFSET	ALIGN	LOCATION	305.0110* BASE AGGREGATE DENSE 3/4-INCH TON	305.0120* BASE AGGREGATE DENSE 1 1/4-INCH TON	465.0105* ASPHALTIC SURFACE TON	602.0410 CONCRETE SIDEWALK 5-INCH SF	SPV.0180.001 ARCHITECTURAL CONCRETE PAVEMENT 5-INCH SF	602.0420 CONCRETE SIDEWALK 7-INCH SF	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF	650.9000 CONSTRUCTION STAKING CURB RAMP EACH
PROJECT 5992-10-31															
	0010	208+40	-	211+87	LT	BC	PATH CONNECTION	-	216	80	-	-	-	-	-
		211+87	-	212+11	LT	SW	PATH CONNECTION	4	-	-	-	-	230	-	-
		298+24	-	314+76	LT/RT	BP	SHARED-USE PATH	-	1077	430	-	-	-	-	-
		50+35	-	50+28	LT	BH	SIDEWALK	1	-	-	-	-	80	-	-
		60+27	-	60+33	LT/RT	PL	SIDEWALK	7	-	-	320	-	280	-	-
							PROJECT 5992-10-31 TOTALS	12	1292	510	320	0	590	0	0
PROJECT 5992-10-32															
	0010	206+15	-	207+15	LT	NB	MEDIAN	-	29	-	980	-	-	-	-
		206+15	-	207+76	RT	NB	SIDEWALK	39	-	-	1110	-	-	10	1
		206+36	-	207+60	LT	SB	WEST TERRACE	-	23	-	360	-	-	12	1
		399+30	-	399+60	RT	WBO	SPLITTER ISLAND	-	5	-	260	-	-	-	-
		399+50	-	399+65	RT	WBO	SPLITTER ISLAND	-	2	-	-	-	110	20	2
		399+54	-	399+95	RT	WBO	SPLITTER ISLAND	-	10	-	550	-	-	-	-
		195+47	-	195+58	RT	WBF	SPLITTER ISLAND	-	3	-	170	-	-	-	-
		195+58	-	196+11	RT	WBF	SPLITTER ISLAND	-	1	-	-	-	80	20	2
		195+63	-	196+11	RT	WBF	SPLITTER ISLAND	-	8	-	420	-	-	-	-
		208+52	-	213+85	RT	NB	EAST TERRACE	-	49	-	2500	-	-	10	1
		208+18	-	208+62	LT	SW	WEST TERRACE	8	-	-	-	-	630	20	1
		208+62	-	211+87	LT	SW	SHARED-USE PATH	-	171	70	-	-	-	-	-
		211+87	-	212+12	LT	SW	SHARED-USE PATH	3	-	-	-	-	240	-	-
		212+12	-	213+16	LT	SW	SHARED-USE PATH	-	55	20	-	-	-	-	-
		213+16	-	213+26	LT	SW	SHARED-USE PATH	2	-	-	-	-	170	-	-
		213+26	-	215+09	LT	SW	SHARED-USE PATH	-	96	40	-	-	-	-	-
		215+09	-	215+19	LT	SW	SHARED-USE PATH	2	-	-	-	-	170	-	-
		33+35	-	35+06	LT	SW	WEST TERRACE	-	19	-	1040	-	-	-	-
		215+19	-	215+57	LT	SW	SHARED-USE PATH	-	19	10	-	-	-	-	-
		215+57	-	215+62	LT	SW	SHARED-USE PATH	1	-	-	-	-	50	-	-
		215+62	-	215+97	LT	SW	SHARED-USE PATH	-	9	10	-	-	-	-	-
		215+97	-	216+02	LT	SW	SHARED-USE PATH	1	-	-	-	-	50	-	-
		216+02	-	216+43	LT	SW	SHARED-USE PATH	-	21	10	-	-	-	-	-
		216+43	-	216+63	LT	SW	SHARED-USE PATH	2	-	-	-	-	190	20	1
		216+81	-	217+23	LT	SW	SPLITTER ISLAND	5	-	-	-	-	420	50	3
		215+50	-	216+98	LT	NB	MEDIAN	14	-	-	-	710	-	-	-
		216+08	-	217+22	LT	SB	MEDIAN	33	-	-	-	1690	-	-	-
		216+70	-	217+27	RT	NB	EAST TERRACE	9	-	-	450	-	-	20	2
		218+12	-	218+53	RT	NB	EAST TERRACE	6	-	-	320	-	-	20	1
		218+32	-	221+50	LT	NB	MEDIAN	25	-	-	-	1290	-	-	-
		219+54	-	219+66	RT	NB	BUS PAD	1	-	-	-	-	80	-	-
		218+02	-	218+29	LT	SW	WEST TERRACE	4	-	-	-	-	330	30	2
		799+31	-	799+52	LT	MA	WEST TERRACE	-	3	-	120	-	-	-	-
		218+28	-	224+69	LT	SW	SHARED-USE PATH	-	333	-	6420	-	-	-	-
		224+62		224+72	LT	NB	MEDIAN	-	2	-	-	70	-	-	-

(CONTINUED ON NEXT SHEET)

3

SHARED-USE PATH AND CONCRETE SIDEWALK (CONTINUED)

PROJECT NO.	CAT	STA	TO	STA	OFFSET	ALIGN	LOCATION	305.0110* BASE AGGREGATE DENSE 3/4 -INCH TON	305.0120* BASE AGGREGATE DENSE 1 1/4 -INCH TON	465.0105* ASPHALTIC SURFACE TON	602.0410 CONCRETE SIDEWALK 5-INCH SF	SPV.0180.001 ARCHITECTURAL CONCRETE PAVEMENT 5-INCH SF	602.0420 CONCRETE SIDEWALK 7-INCH SF	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF	650.9000 CONSTRUCTION STAKING CURB RAMP EACH
PROJECT 5992-10-32															
		224+69	-	224+90	LT	SW	WEST TERRACE	4	-	-	-	-	330	30	2
		224+72	-	224+78	LT	NB	MEDIAN	1	-	-	30	-	-	-	-
		224+67	-	224+91	RT	NB	EAST TERRACE	3	-	-	160	-	-	20	2
		899+35	-	899+51	LT	MB	MEDIAN	2	-	-	80	-	-	-	-
		899+51	-	899+61	LT	MB	MEDIAN	1	-	-	-	-	50	-	-
		899+61	-	899+69	LT	MB	MEDIAN	1	-	-	-	40	-	-	-
		600+27	-	600+64	LT	GP	EAST TERRACE	8	-	-	400	-	-	20	2
		225+55	-	225+81	LT	SW	WEST TERRACE	4	-	-	-	-	300	30	2
		225+58	-	225+73	LT	NB	MEDIAN	2	-	-	100	-	-	20	-
		225+73	-	225+83	LT	NB	MEDIAN	-	1	-	-	70	-	-	-
		225+81	-	231+68	LT	SW	WEST TERRACE	-	306	110	-	-	-	-	-
							PROJECT 5992-10-32 TOTALS	179	1166	270	15470	3870	3200	352	25
							OVERALL PROJECT TOTAL	**191**	**2458**	**780**	**15790**	**3870**	**3790**	**352**	**25**

***ADDITIONAL QUANTITIES LISTED ELSEWHERE**

ADJUSTING WATER

PROJECT NO.	CAT	STA	OFFSET	ALI	LOCATION	SPV.0090.450 FURNISH AND INSTALL 16 INCH PIPE & FITTINGS LF	SPV.0060.450 FURNISH AND INSTALL 16-INCH WATER VALVE EACH	SPV.0060.451 CUT-IN-OR CONNECT TO EXISTING WATER SYSTEM EACH	SPV.0090.451 FURNISH AND INSTALL STYROFOAM LF	SPV.0060.452 ADJUST WATER VALVE BOX SECTIONS EACH	SPV.0035.450 REMOVAL OF EXCESS AMOUNTS OF BOULDERS CY	SPV.0105.450 CONSTRUCITON STAKING WATER MAIN LS	SPV.0105.500 CONSTRUCTION STAKING SANITARY SEWER LS
PROJECT 5992-10-33													
	0010					90	1	2	120	30	115	1	1
			PROJECT 5992-10-33 TOTALS			90	1	2	120	30	115	1	1
			OVERALL PROJECT TOTAL			**90**	**1**	**2**	**120**	**30**	**115**	**1**	**1**

STORM SEWER PIPE REINFORCED CONCRETE

PROJECT NO.	CAT	FROM**	-	TO**	608.0312 CLASS III 12-INCH LF	608.0315 CLASS III 15-INCH LF	608.0318 CLASS III 18-INCH LF	608.0324 CLASS III 24-INCH LF	608.0336 CLASS III 36-INCH LF	608.0348 CLASS III 48-INCH LF	608.0354 CLASS III 54-INCH LF	608.0412 CLASS IV 12-INCH LF	608.0415 CLASS IV 15-INCH LF	608.0430 CLASS IV 30-INCH LF	608.0448 CLASS IV 48-INCH LF	JOINT TIES* EACH	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
PROJECT 5992-10-31																			
	0011	126	-	125	-	-	-	21	-	-	-	-	-	-	-	-	1066.73	1066.58	0.0071
		400	-	410	20	-	-	-	-	-	-	-	-	-	-	-	1032.61	1032.42	0.0095
		CC	-	126	-	-	4	-	-	-	-	-	-	-	-	-	1070.58	1070.51	0.0175
		420	-	430	12	-	-	-	-	-	-	-	-	-	-	-	1031.83	1031.72	0.0092
		430	-	S4	57	-	-	-	-	-	-	-	-	-	-	-	1031.62	1030.05	0.0275
		121	-	122	-	55	-	-	-	-	-	-	-	-	-	-	1068.44	1067.89	0.0100
		125	-	122	-	-	-	43	-	-	-	-	-	-	-	-	1066.48	1065.91	0.0133
		127	-	120	-	105	-	-	-	-	-	-	-	-	-	-	1062.27	1061.22	0.0100
		410	-	420	40	-	-	-	-	-	-	-	-	-	-	-	1032.32	1031.93	0.0097
		122	-	120	-	-	-	-	-	-	-	-	-	318	-	-	1056.97	1055.38	0.0050
		PROJECT 5992-10-31 TOTALS			**129**	**160**	**4**	**64**	**0**	**0**	**0**	**0**	**0**	**318**	**0**				
PROJECT 5992-10-32					-	-	-	-	-	-	-	-	-	-	-	-			
	0011	120	-	130	-	-	-	-	-	-	-	-	-	-	384	-	1053.88	1051.96	0.0050
		130	-	140	-	-	-	-	-	-	-	-	-	-	81	-	1051.86	1051.44	0.0052
		150	-	160	-	-	-	-	-	266	-	-	-	-	-	-	1048.70	1041.51	0.0270
		153	-	150	-	-	57	-	-	-	-	-	-	-	-	-	1058.91	1058.34	0.0100
		152	-	151	-	54	-	-	-	-	-	-	-	-	-	-	1058.94	1058.67	0.0050
		174	-	160	70	-	-	-	-	-	-	-	-	-	-	-	1045.56	1044.86	0.0100
		172	-	171	-	-	6	-	-	-	-	-	-	-	-	-	1042.38	1042.35	0.0050
		171	-	170	-	-	12	-	-	-	-	-	-	-	-	-	1042.35	1042.30	0.0042
		170	-	180	-	-	-	-	-	117	-	-	-	-	-	-	1038.03	1034.75	0.0280
		190	-	200	-	-	-	-	-	-	93	-	-	-	-	6	1032.12	1031.50	0.0067
		210	-	CC	-	-	-	27	-	-	-	-	-	-	-	-	1032.08	1031.12	0.0356
		240	-	230	-	-	-	180	-	-	-	-	-	-	-	-	1035.33	1034.43	0.0050
		246	-	245	37	-	-	-	-	-	-	-	-	-	-	-	1037.29	1037.11	0.0049
		241	-	240	-	54	-	-	-	-	-	-	-	-	-	-	1036.25	1036.08	0.0031
		248	-	247	-	-	-	-	-	-	-	59	-	-	-	-	1036.82	1036.53	0.0049
		244	-	243	-	57	-	-	-	-	-	-	-	-	-	-	1036.83	1036.65	0.0032
		247	-	240	-	65	-	-	-	-	-	-	-	-	-	-	1036.28	1036.08	0.0031
		221	-	220	-	-	-	-	-	-	-	-	8	-	-	-	1034.50	1034.42	0.0100
		220	-	210	-	-	-	46	-	-	-	-	-	-	-	-	1033.57	1032.18	0.0302
		231	-	230	-	36	-	-	-	-	-	-	-	-	-	-	1035.31	1035.13	0.0050
		230	-	220	-	-	-	81	-	-	-	-	-	-	-	-	1034.33	1033.67	0.0081
		210	-	211	-	24	-	-	-	-	-	-	-	-	-	-	1034.97	1034.73	0.0100
		232	-	231	-	26	-	-	-	-	-	-	-	-	-	-	1035.54	1035.41	0.0050
		173	-	172	-	36	-	-	-	-	-	-	-	-	-	-	1042.81	1042.63	0.0050
		177	-	170	-	46	-	-	-	-	-	-	-	-	-	-	1044.04	1042.55	0.0324

* NON-BID ITEM: FOR INFORMATION ONLY

(CONTINUED)

** CC DESIGNATES CONCRETE COLLAR

STORM SEWER PIPE REINFORCED CONCRETE (CONTINUED)

PROJECT NO.	CAT	FROM**	-	TO**	608.0312 CLASS III 12-INCH LF	608.0315 CLASS III 15-INCH LF	608.0318 CLASS III 18-INCH LF	608.0324 CLASS III 24-INCH LF	608.0336 CLASS III 36-INCH LF	608.0348 CLASS III 48-INCH LF	608.0354 CLASS III 54-INCH LF	608.0412 CLASS IV 12-INCH LF	608.0415 CLASS IV 15-INCH LF	608.0430 CLASS IV 30-INCH LF	608.0448 CLASS IV 48-INCH LF	JOINT TIES* EACH	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT
PROJECT 5992-10-32 (CONTINUED)																			
		180	-	190	-	-	-	-	-	-	309	-	-	-	-	-	1034.25	1032.22	0.0066
		183	-	180	-	-	86	-	-	-	-	-	-	-	-	-	1040.21	1038.78	0.0166
		186	-	183	14	-	-	-	-	-	-	-	-	-	-	-	1041.62	1041.33	0.0207
		185	-	183	27	-	-	-	-	-	-	-	-	-	-	-	1042.40	1041.54	0.0319
		242	-	241	-	7	-	-	-	-	-	-	-	-	-	-	1036.37	1036.35	0.0032
		243	-	242	-	58	-	-	-	-	-	-	-	-	-	-	1036.55	1036.37	0.0031
		245	-	244	-	10	-	-	-	-	-	-	-	-	-	-	1036.86	1036.83	0.0030
		176	-	175	-	47	-	-	-	-	-	-	-	-	-	-	1043.18	1042.95	0.0049
		182	-	181	-	21	-	-	-	-	-	-	-	-	-	-	1040.00	1039.80	0.0095
		181	-	180	-	77	-	-	-	-	-	-	-	-	-	-	1039.80	1039.03	0.0100
		100	-	120	-	-	-	-	40	-	-	-	-	-	-	-	1066.80	1066.00	0.0200
		110	-	120	26	-	-	-	-	-	-	-	-	-	-	-	1068.19	1068.00	0.0073
		145	-	144	-	178	-	-	-	-	-	-	-	-	-	-	1071.00	1067.75	0.0183
		144	-	143	-	-	-	46	-	-	-	-	-	-	-	-	1066.34	1066.11	0.0050
		143	-	141	-	-	-	17	-	-	-	-	-	-	-	-	1066.11	1066.03	0.0047
		141	-	140	-	-	-	204	-	-	-	-	-	-	-	-	1065.93	1062.20	0.0183
		140	-	150	-	-	-	-	-	140	-	-	-	-	-	-	1051.34	1048.70	0.0189
		151	-	150	-	18	-	-	-	-	-	-	-	-	-	-	1058.67	1058.59	0.0044
		142	-	141	49	-	-	-	-	-	-	-	-	-	-	-	1067.51	1067.03	0.0098
		123	-	122	-	-	8	-	-	-	-	-	-	-	-	-	1058.02	1057.97	0.0062
		CC	-	183	-	-	22	-	-	-	-	-	-	-	-	-	1041.95	1041.78	0.0077
		CC	-	181	4	-	-	-	-	-	-	-	-	-	-	-	1041.46	1041.37	0.0225
		160	-	170	-	-	-	-	-	53	-	-	-	-	-	-	1039.08	1038.03	0.0198
		175	-	173	-	29	-	-	-	-	-	-	-	-	-	-	1042.95	1042.81	0.0048
		207+40 NB		100' LT	-	-	10	-	-	-	-	-	-	-	-	-			
PROJECT 5992-10-32 TOTALS		**227**		**843**	**201**	**601**	**40**	**576**	**402**	**59**	**8**	**0**	**465**						
OVERALL PROJECT TOTALS		**356**		**1003**	**205**	**665**	**40**	**576**	**402**	**59**	**8**	**318**	**465**						

* NON-BID ITEM: FOR INFORMATION ONLY
** CC DESIGNATES CONCRETE COLLAR

3

APRON ENDWALL AND STORM SEWER COVERS

PROJECT	CAT	STRUCTURE	STATION	OFFSET*	LOCATION	522.1054 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 54-INCH EACH	SPV.0060.108 MANHOLE COVERS TYPE J SPECIAL EACH	611.0606 INLET COVERS TYPE B EACH	611.0609 INLET COVERS TYPE B-A EACH	611.0612 INLET COVERS TYPE C EACH	SPV.0060.109 INLET COVERS TYPE H SPECIAL EACH	611.0642 INLET COVERS TYPE MS EACH	611.0666 INLET COVERS TYPE Z EACH
PROJECT 5992-10-31													
	0011	121	196+34.05	25.5' LT	WBF	-	-	-	-	-	1	-	-
		122	196+88.20	38.9' LT	WBF	-	1	-	-	-	-	-	-
		123	298+29.62	9.3' RT	BP	-	-	1	-	-	-	-	-
		125	197+32.27	40.6' LT	WBF	-	-	-	-	1	-	-	-
		126	197+47.66	26' LT	WBF	-	-	-	-	-	1	-	-
		127	294+00.13	14.7' RT	BP	-	-	-	-	-	-	1	-
		400	313+82.35	11.7' LT	BP	-	-	-	-	-	-	-	1
		410	313+75.46	6' RT	BP	-	-	-	1	-	-	-	-
		420	314+10.20	24' RT	BP	-	-	-	1	-	-	-	-
		430	314+21.71	20.7' RT	BP	-	-	-	1	-	-	-	-
				PROJECT 5992-10-31 TOTALS		0	1	1	3	1	2	1	1
PROJECT 5992-10-32						-	-	-	-	-	-	-	-
	0011	100	399+52.28	1.5' RT	WBO	-	-	-	-	-	1	-	-
		110	399+76.24	19.5' LT	WBO	-	-	-	-	-	1	-	-
		120	399+55.02	38.4' LT	WBO	-	1	-	-	-	-	-	-
		130	212+06.80	49' LT	SB	-	1	-	-	-	-	-	-
		140	212+31.92	37' LT	NB	-	1	-	-	-	-	-	-
		141	210+29.52	22.9' RT	SB	-	-	-	-	-	1	-	-
		142	210+30.34	27.2' LT	SB	-	-	-	-	-	1	-	-
		143	210+28.65	20.8' LT	NB	-	-	-	-	-	1	-	-
		144	210+32.53	24.9' RT	NB	-	-	-	-	-	1	-	-
		145	208+62.80	82.6' RT	NB	-	-	-	-	1	-	-	-
		150	213+71.90	32' LT	NB	-	-	-	-	-	1	-	-
		151	213+70.32	12.4' RT	SB	-	-	-	-	-	1	-	-
		152	213+63.35	40.8' LT	SB	-	-	-	-	-	1	-	-
		153	213+75.60	24.5' RT	NB	-	-	-	-	-	1	-	-
		160	216+38.56	27' LT	NB	-	1	-	-	-	-	-	-
		170	216+90.49	20.8' LT	NB	-	1	-	-	-	-	-	-
		171	216+90.37	32' LT	NB	-	-	-	-	-	1	-	-
		172	216+90.37	12.4' RT	SB	-	-	-	-	-	1	-	-
		173	216+90.39	23.5' LT	SB	-	-	-	-	-	1	-	-
		174	216+37.92	1.5' LT	MAB	-	-	-	-	-	1	-	-

(CONTINUED)

REMARKS

* STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE

APRON ENDWALL AND STORM SEWER COVERS (CONTINUED)

PROJECT NO.	CAT	STRUCTURE	STATION	OFFSET*	LOCATION	522.1054 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 54-INCH EACH	SPV.0060.108 MANHOLE COVERS TYPE J EACH	611.0606 INLET COVERS TYPE B EACH	611.0609 INLET COVERS TYPE B-A EACH	611.0612 INLET COVERS TYPE C EACH	SPV.0060.109 INLET COVERS TYPE H EACH	611.0642 INLET COVERS TYPE MS EACH	611.0666 INLET COVERS TYPE Z EACH
PROJECT 5992-10-32													
	0011	175	216+87.97	16.7' RT	MAB	-	-	-	-	-	-	-	1
		176	217+27.80	1.5' LT	MAB	-	-	-	-	-	1	-	-
		177	216+90.95	24.5' RT	NB	-	-	-	-	-	1	-	-
		180	218+07.02	28.3' RT	SB	-	1	-	-	-	-	-	-
		181	217+67.03	36.6' LT	SB	-	1	-	-	-	-	-	-
		182	799+45.93	1.4' LT	MA	-	-	-	-	-	-	-	1
		183	500+44.81	3.9' RT	OD	-	1	-	-	-	-	-	-
		185	500+55.02	28.5' RT	OD	-	-	-	-	-	1	-	-
		186	500+48.39	9.0' LT	OD	-	-	-	-	-	1	-	-
		190	221+15.10	25.7' RT	SB	-	1	-	-	-	-	-	-
		200	221+54.95	59.7' RT	NB	1	-	-	-	-	-	-	-
		210	222+00.93	24.5' RT	NB	-	-	-	-	-	1	-	-
		211	222+24.73	24.5' RT	NB	-	-	-	-	-	1	-	-
		220	222+22.57	15' LT	NB	-	1	-	-	-	-	-	-
		221	222+24.88	22.7' LT	NB	-	-	-	-	-	1	-	-
		230	223.00.05	12' RT	SB	-	-	-	-	-	1	-	-
		231	223+00.04	23.5' LT	SB	-	-	-	-	-	1	-	-
		232	222+74.98	23.5' LT	SB	-	-	-	-	-	1	-	-
		240	224+79.66	5' RT	SB	-	1	-	-	-	-	-	-
		241	899+65.92	0.8' LT	MB	-	-	-	-	-	-	-	1
		242	899+65.96	7.2' LT	MB	-	-	-	-	-	-	-	1
		243	225+80.29	33.5' LT	SB	-	-	-	-	-	1	-	-
		244	225+79.25	23' RT	SB	-	-	-	-	-	1	-	-
		245	225+79.19	12' LT	NB	-	-	-	-	-	1	-	-
		246	225+78.99	24.5' RT	NB	-	-	-	-	-	1	-	-
		247	224+81.60	25' RT	NB	-	-	-	-	-	1	-	-
		248	600+45.01	25.2' LT	GP	-	-	-	-	-	1	-	-
		300	899+29.31	32.7' LT	MB	-	-	-	-	-	-	-	1
				PROJECT 5992-10-32 TOTALS		1	11	0	0	1	30	0	5
				OVERALL PROJECT TOTAL		1	12	1	3	2	32	1	6

REMARKS

* STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE

STORM SEWER STRUCTURES

PROJECT	CAT	STRUCTURE	STATION	OFFSET*	LOCATION	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.2066 MANHOLES 6X6-FT EACH	611.3003 INLETS 3-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3220 INLETS 2X2-FT EACH	611.3230 INLETS 2X3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	SPV.0060.105 INLETS 5-FT DIAMETER EACH	SPV.0060.106 INLETS 6X6-FT EACH	RIM**** ELEVATION	INVERT** ELEVATION	DEPTH*** FT	REPORT DEPTH*** FT
PROJECT 5992-10-31																					
	0011	121	196+34.05	25.5' LT	WBF	-	-	-	-	-	1	-	-	-	1	-	-	1073.50	1068.44	4.23	4.25
		122	196+88.20	38.9' LT	WBF	-	1	-	-	-	-	-	-	-	1	-	-	1074.10	1056.97	15.96	16.18
		123	298+29.62	9.3' RT	BP	-	-	-	-	-	-	1	-	-	1	-	-	1061.97	1058.02	2.78	2.82
		125	197+32.27	40.6' LT	WBF	-	-	-	-	-	-	-	-	-	1	1	-	1073.31	1066.48	5.66	
		126	197+47.66	26' LT	WBF	-	-	-	-	-	1	-	-	-	1	-	-	1074.14	1066.73	6.58	6.66
		127	294+00.13	14.7' RT	BP	-	-	-	-	-	-	-	-	1	1	-	-	1066.21	1062.27	3.94	4.13
		400	313+82.35	11.7' LT	BP	-	-	-	-	1	-	-	-	-	1	-	-	1035.84	1032.61	2.23	2.64
		410	313+75.46	6' RT	BP	-	-	-	-	1	-	-	-	-	1	-	-	1035.39	1032.32	1.90	1.90
		420	314+10.20	24' RT	BP	-	-	-	-	1	-	-	-	-	1	-	-	1035.33	1031.83	2.33	2.34
		430	314+21.71	20.7' RT	BP	-	-	-	-	1	-	-	-	-	1	-	-	1035.38	1031.62	2.59	2.59
				PROJECT 5992-10-31 TOTALS		0	1	0	0	4	2	1	0	1	10	1	0				
PROJECT 5992-10-32						-	-	-	-	-	-	-	-	-	-	-	-				
	0011	100	399+52.28	1.5' RT	WBO	-	-	-	-	-	-	-	-	-	1	1	-	1074.07	1066.80	6.44	6.60
		110	399+76.24	19.5' LT	WBO	-	-	-	-	-	-	-	1	-	1	-	-	1073.59	1068.19	4.57	4.57
		120	399+55.02	38.4' LT	WBO	-	-	-	1	-	-	-	-	-	1	-	-	1073.01	1053.88	17.96	18.31
		130	212+06.80	49' LT	SB	-	-	-	1	-	-	-	-	-	1	-	-	1071.23	1051.86	18.20	18.54
		140	212+31.92	37' LT	NB	-	-	-	1	-	-	-	-	-	1	-	-	1069.87	1051.34	17.36	17.71
		141	210+29.52	22.9' RT	SB	-	-	-	-	-	-	-	-	-	1	1	-	1073.35	1065.93	6.59	6.68
		142	210+30.34	27.2' LT	SB	-	-	-	-	-	-	-	1	-	1	-	-	1073.21	1067.51	4.87	3.79
		143	210+28.65	20.8' LT	NB	-	-	-	-	-	1	-	-	-	1	-	-	1073.42	1066.11	6.48	6.08
		144	210+32.53	24.9' RT	NB	-	-	-	-	-	1	-	-	-	1	-	-	1073.27	1066.34	6.10	5.52
		145	208+62.80	82.6' RT	NB	-	-	-	-	-	1	-	-	-	1	-	-	1076.00	1071.00	3.83	3.94
		150	213+71.90	32' LT	NB	-	-	-	-	-	-	-	-	-	1	-	1	1064.08	1048.70	14.55	
		151	213+70.32	12.4' RT	SB	-	-	-	-	-	-	-	1	-	1	-	-	1064.08	1058.67	4.58	4.59
		152	213+63.35	40.8' LT	SB	-	-	-	-	-	-	-	1	-	1	-	-	1063.89	1058.94	4.12	4.13
		153	213+75.60	24.5' RT	NB	-	-	-	-	-	-	-	1	-	1	-	-	1064.00	1058.91	4.26	4.64
		160	216+38.56	27' LT	NB	-	-	-	1	-	-	-	-	-	1	-	-	1051.28	1039.08	11.03	11.37
		170	216+90.49	20.8' LT	NB	-	-	-	1	-	-	-	-	-	1	-	-	1049.17	1038.03	9.97	10.31
		171	216+90.37	32' LT	NB	-	-	-	-	-	-	-	1	-	1	-	-	1048.99	1042.35	5.81	5.84
		172	216+90.37	12.4' RT	SB	-	-	-	-	-	-	-	1	-	1	-	-	1049.08	1042.38	5.87	5.91
		173	216+90.39	23.5' LT	SB	-	-	-	-	-	1	-	-	-	1	-	-	1048.87	1042.81	5.23	5.25
		174	216+37.92	1.5' LT	MAB	-	-	-	-	-	-	-	1	-	1	-	-	1050.16	1045.56	3.77	

(CONTINUED)

REMARKS

* STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE

** THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE

*** DEPTH = RIM ELEV - INVERT ELEV - COVER HEIGHT - 6-INCH ADJUSTMENT RING HEIGHT

**** RIM ELEVATIONS ARE GIVEN AT THE NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE

STORM SEWER STRUCTURES (CONTINUED)

PROJECT NO.	CAT	STRUCTURE	STATION	OFFSET*	LOCATION	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.2066 MANHOLES 6X6-FT EACH	611.3003 INLETS 3-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3220 INLETS 2X2-FT EACH	611.3230 INLETS 2X3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	SPV.0060.105 INLETS 5-FT DIAMETER EACH	SPV.0060.106 INLETS 6X6-FT EACH	RIM**** ELEVATION	INVERT** ELEVATION	DEPTH*** FT	REPORT DEPTH*** FT
5992-10-32																					
	0011	175	216+87.97	16.7' RT	MAB	-	-	-	-	1	-	-	-	-	1	-	-	1048.77	1042.95	4.82	4.93
		176	217+27.80	1.5' LT	MAB	-	-	-	-	-	1	-	-	-	1	-	-	1048.00	1043.18	3.99	4.01
		177	216+90.95	24.5' RT	NB	-	-	-	-	-	-	-	1	-	1	-	-	1048.97	1044.04	4.10	4.13
		180	218+07.02	28.3' RT	SB	-	-	-	1	-	-	-	-	-	1	-	-	1045.17	1034.25	9.75	10.14
		181	217+67.03	36.6' LT	SB	1	-	-	-	-	-	-	-	-	1	-	-	1046.39	1039.80	5.42	4.02
		182	799+45.93	1.4' LT	MA	-	-	-	-	1	-	-	-	-	1	-	-	1046.72	1040.00	5.72	4.14
		183	500+44.81	3.9' RT	OD	-	-	1	-	-	-	-	-	-	1	-	-	1046.85	1040.21	5.47	4.77
		185	500+55.02	28.5' RT	OD	-	-	-	-	-	-	-	1	-	1	-	-	1047.59	1042.40	4.36	4.36
		186	500+48.39	9.0' LT	OD	-	-	-	-	-	-	-	1	-	1	-	-	1046.37	1041.62	3.92	3.92
		190	221+15.10	25.7' RT	SB	-	1	-	-	-	-	-	-	-	1	-	-	1041.57	1032.12	8.28	8.66
		200	221+54.95	59.7' RT	NB	-	-	-	-	-	-	-	-	-	1	-	-		1036.46	0.00	
		210	222+00.93	24.5' RT	NB	-	-	-	-	-	-	-	-	-	1	1	-	1040.01	1032.08	7.10	
		211	222+24.73	24.5' RT	NB	-	-	-	-	-	1	-	-	-	1	-	-	1039.92	1034.97	4.12	4.14
		220	222+22.57	15' LT	NB	-	1	-	-	-	-	-	-	-	1	-	-	1040.21	1033.57	5.47	5.65
		221	222+24.88	22.7' LT	NB	-	-	-	-	-	-	-	1	-	1	-	-	1040.00	1034.50	4.67	2.94
		230	223.00.05	12' RT	SB	-	-	-	-	-	-	-	-	-	1	1	-	1040.60	1034.33	5.44	
		231	223+00.04	23.5' LT	SB	-	-	-	-	-	-	-	1	-	1	-	-	1040.32	1035.31	4.18	4.19
		232	222+74.98	23.5' LT	SB	-	-	-	-	-	-	-	1	-	1	-	-	1040.42	1035.54	4.05	4.06
		240	224+79.66	5' RT	SB	-	1	-	-	-	-	-	-	-	1	-	-	1041.80	1035.33	5.30	5.48
		241	899+65.92	0.8' LT	MB	-	-	-	-	-	1	-	-	-	1	-	-	1041.72	1036.25	4.47	4.57
		242	899+65.96	7.2' LT	MB	-	-	-	-	1	-	-	-	-	1	-	-	1041.75	1036.37	4.38	4.48
		243	225+80.29	33.5' LT	SB	-	-	-	-	-	1	-	-	-	1	-	-	1041.76	1036.55	4.38	4.40
		244	225+79.25	23' RT	SB	-	-	-	-	-	-	-	1	-	1	-	-	1042.09	1036.83	4.43	4.45
		245	225+79.19	12' LT	NB	-	-	-	-	-	-	-	1	-	1	-	-	1042.14	1036.86	4.45	4.47
		246	225+78.99	24.5' RT	NB	-	-	-	-	-	-	-	1	-	1	-	-	1041.82	1037.29	3.70	3.69
		247	224+81.60	25' RT	NB	-	-	-	-	-	1	-	-	-	1	-	-	1041.31	1036.28	4.20	4.22
		248	600+45.01	25.2' LT	GP	-	-	-	-	-	-	-	1	-	1	-	-	1041.50	1036.82	3.85	3.84
		300	899+29.31	32.7' LT	MB	-	-	-	-	1	-	-	-	-	1	-	-	1042.26	1039.81	1.45	1.89
		PROJECT 5992-10-32 TOTALS				1	3	1	6	4	9	0	18	0	48	4	1				
		OVERALL PROJECT TOTAL				1	4	1	6	8	11	1	18	1	58	5	1				

REMARKS
* STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE
** THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE
*** DEPTH = RIM ELEV - INVERT ELEV - COVER HEIGHT - 6-INCH ADJUSTMENT RING HEIGHT
**** RIM ELEVATIONS ARE GIVEN AT THE NORMAL FLOW LINE OF INLET OR AT CENTER OF MANHOLE

3

CONCRETE COLLARS FOR PIPE

PROJECT NO.	CAT	STA	OFFSET	ALI	520.8000 CONCRETE COLLARS FOR PIPE EACH
PROJECT 5992-10-31					
	0011	197+48	22.1' LT	WBF	1
			PROJECT 5992-10-31 TOTALS		1
PROJECT 5992-10-32					
	0011	217+69	40.0' LT	SB	1
		500+66	3.8' RT	OD	1
		221+88	48.3' RT	NB	1
		600+65	26.2' LT	GP	1
		207+40	105' LT	NB	2
		224+81	17' LT	NB	2
			PROJECT 5992-10-32 TOTALS		8
			OVERALL PROJECT TOTAL		9

PIPE GRATES

PROJECT NO.	CAT	STA	OFFSET	ALI	611.9800.S PIPE GRATES EACH
PROJECT 5992-10-32					
	0011	221+55	59.7' RT	NB	1
			PROJECT 5992-10-32 TOTALS		1
			OVERALL PROJECT TOTAL		1

RECONNECT PRIVATE STORM SEWER, TYPE 2

PROJECT NO.	CAT	STA	OFFSET	ALI	SPV.0060.107 PRIVATE STORM SEWER RECONNECT EACH
PROJECT 5992-10-32					
	0011	210+37	53.0' RT	NB	1
		213+77	27.4' RT	NB	1
		500+56	39.5' RT	OD	1
		600+65	26.2' LT	GP	1
			PROJECT 5992-10-32 TOTALS		4
			OVERALL PROJECT TOTAL		4

STORM SEWER TAP

PROJECT NO.	CAT	STA	OFFSET	ALI	SPV.0105.104 STORM SEWER TAP LS
PROJECT 5992-10-31					
	0011	314+71	12.7' LT	BP	1
			PROJECT 5992-10-31 TOTALS		1
			OVERALL PROJECT TOTAL		1

3

UTILITY LINE OPENING (ULO)

PROJECT NO.	CAT	STA	OFFSET	ALI	SPV.0060.550 UTILITY LINE OPENING (ULO) EACH
PROJECT 5992-10-31					
	0010	41+75	6' LT	BF	1
		301+25	19' LT	BP	1
		301+84	20' LT	BP	1
		305+85	0.0'	BP	1
		309+00	12' LT	BP	1
		312+50	0.0'	BP	1
		314+00	19' RT	BP	1
	0011	210+33	24' RT	NB	1
		210+33	21' RT	NB	1
		213+75	2' RT	NB	1
			PROJECT 5992-10-31 TOTALS		10
PROJECT 5992-10-32					
	0010	212+30	26' RT	SB	1
		217+45	49' RT	NB	1
	0011	210+33	24' RT	NB	1
		213+75	2' RT	NB	1
		213+76	29' RT	NB	1
		216+47	21' LT	NB	1
		217+02	0.0' LT	NB	1
		500+50	13' RT	OD	1
		217+32	0.0'	SB	1
		217+32	0.0'	NB	1
		217+57	37' RT	NB	1
		217+90	1' LT	NB	1
		220+98	24' LT	NB	1
		221+27	1' LT	NB	1
		221+44	36' RT	NB	1
		221+95	36' RT	NB	1
		222+14	1' LT	NB	1
		224+81	0.0'	NB	1
		600+36	4' LT	GP	1
		225+79	1' LT	NB	1
			PROJECT 5992-10-32 TOTALS		20
			OVERALL PROJECT TOTAL		30

3

DEWATERING

PROJECT NO.	CAT	SPV.0105.006 PROJECT DEWATERING LS	SPV.0105.007 PROJECT DEWATERING LS	SPV.0105.008 PROJECT DEWATERING LS
PROJECT 5992-10-31	0010	1	-	-
PROJECT 5992-10-32	0010	-	1	-
PROJECT 5992-10-33	0011	-	-	1
OVERALL PROJECT TOTAL		**1**	**1**	**1**

GUARDRAIL

PROJECT NO.	CAT	STA	TO	STA	OFFSET	ALIGN	614.2300 MGS GUARDRAIL 3 LF	614.2620 MGS GUARDRAIL TERMINAL TYPE 2 EACH
PROJECT 5992-10-32	0010							
		196+78		197+94	LT	WBF	107	1
				PROJECT 5992-10-32 TOTALS			107	1
				PROJECT TOTAL			**107**	**1**

3

CONCRETE BARRIER

PROJECT NO.	CAT	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED LF	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED LF	CONCRETE BARRIER TEMPORARY PRECAST PINNED** LF	REMARKS
PROJECT 5992-10-31					
STAGE 1B					
		280	280	280	NW Quad of Int - Gammon & USH12WB On Ramp
STAGE 1B SUBTOTAL		*280*	*280*	*280*	
STAGE 1F					
		225	225	225	NW Quad of Int - Gammon & USH12WB On Ramp
STAGE 1F SUBTOTAL		*225*	*225*	*225*	
STAGE 2A					
		452	452	452	N. Median at Int - Gammon & USH12WB On Ramp
STAGE 2A SUBTOTAL		*452*	*452*	*452*	
STAGE 3A					
		303	303	303	NE Quad of Int - Gammon & USH12WB Off Ramp
STAGE 3A SUBTOTAL		*303*	*303*	*303*	
OVERALL PROJECT TOTAL		**1259**	**1259**		

NOTE: PINNED BARRIER LOCATIONS APPROXIMATE. OTHER LOCATIONS MAY REQUIRING PINNING IN ACCORDANCE TO SDD CONCRETE BARRIER TEMPORARY PRECAST, 12'-6".

** NON-BID ITEM: FOR INFORMATION ONLY

MOBILIZATION

PROJECT NO.	CAT	619.1000 MOBILIZATION EACH
PROJECT 5992-10-31	0010	0.15
PROJECT 5992-10-32	0010	0.85
OVERALL PROJECT TOTAL		**1**

RECONSTRUCTING MANHOLES AND INLETS

PROJECT NO.	CAT	STAGE	STA	OFFSET	ALI	LOCATION	611.0420 RECONSTRUCTING MANHOLES EACH	611.0430 RECONSTRUCTING INLETS EACH	611.8120 S COVER PLATES TEMPORARY EACH	611.9710 SALVAGED INLET COVERS EACH	SPV.0060.100 TEMPORARY DRAINAGE COVER FOR EXISTING INLET OR MANHOLE EACH	SPV.0060.101 TEMPORARY DRAINAGE COVER FOR PROPOSED INLET OR MANHOLE EACH	SPV.0060.104 TEMPORARY INLET CONNECTION TO EXISTING STORM SEWER PIPE EACH	SPV.0060.102 TEMPORARILY DRAIN BETWEEN EXISTING STORM SEWER PIPE AND PROPOSED STORM SEWER PIPE EACH	SPV.0060.103 TEMPORARILY DRAIN BETWEEN EXISTING STORM SEWER PIPE AND PROPOSED STORM SEWER STRUCTURE EACH
PROJECT 5992-10-32															
	0010	1A	207+11	25'LT	NB	EX INLET	-	-	-	-	-	1	-	-	-
		1A	207+11	36'LT	NB	EX INLET	-	-	-	-	-	1	-	-	-
		1A	207+40	86' LT	NB	EX INLET	-	-	1	-	-	-	-	-	-
		1A	207+40	105'LT	NB	IN-4	-	-	-	-	-	-	1	-	-
		1A	210+28	28'LT	NB	141	-	-	-	-	-	1	-	-	-
		1A	210+28	10'LT	NB	IN-1	-	-	-	-	-	-	-	1	-
		1A	210+29	21'LT	NB	143	-	-	-	-	-	1	-	-	-
		1A	210+29	45'LT	NB	IN-1	-	-	-	-	-	-	-	1	-
		1A	212+32	37'LT	NB	140	-	-	1	-	-	-	-	-	-
		1A	213+69	49'LT	NB	151	-	-	1	-	-	-	-	-	-
		1A	213+69	55'LT	NB	IN-1	-	-	-	-	-	-	-	1	-
		1A	213+72	31'LT	NB	150	-	-	1	-	-	-	-	-	-
		1A	213+72	15'LT	NB	IN-1	-	-	-	-	-	-	-	1	-
		1A	216+39	27'LT	NB	160	-	-	1	-	-	-	-	-	-
		1A	216+90	21'LT	NB	170	-	-	1	-	-	-	-	-	-
		1A	216+90	32'LT	NB	171	-	-	-	-	-	1	-	-	-
		1A	216+90	38'LT	NB	172	-	-	-	-	-	1	-	-	-
		1A	216+90	48'LT	NB	IN-1	-	-	-	-	-	-	-	1	-
		1A	217+70	25'RT	NB	IN-1	-	-	-	-	-	-	-	1	-
		1A	217+80	70'LT	NB	IN-1	-	-	-	-	-	-	-	1	-
		1A	218+07	22'LT	NB	180	-	-	-	-	-	1	-	-	-
		1A	221+15	24'LT	NB	190	-	-	1	-	-	-	-	-	1
		1A	221+40	30'LT	NB	EX INLET	-	-	-	-	1	-	-	-	-
		1A	221+94	21'LT	NB	EX INLET	-	-	-	-	1	-	-	-	-
		1A	222+17	6'LT	NB	IN-1	-	-	-	-	-	-	-	1	-
		1A	222+23	15'LT	NB	220	-	-	1	-	-	-	-	-	-
		1A	222+25	23'LT	NB	221	-	-	-	-	-	1	-	-	1
		1A	222+60	37'LT	NB	IN-6	-	-	-	-	1	-	-	-	-
		1A	223+00	37'LT	NB	230	-	-	-	-	-	1	-	-	-
		1A	224+80	39'LT	NB	240	-	-	1	-	-	-	-	-	-
		1A	224+81	17'LT	NB	IN-7	-	-	-	-	-	-	-	-	-
		1A	225+54	16'LT	NB	EX INLET	-	-	-	-	1	-	-	-	-
		1A	225+79	12'LT	NB	245	-	-	-	-	-	1	-	-	-
		1A	225+79	21'LT	NB	244	-	-	-	-	-	1	-	-	-
		1A	230+06	24'LT	NB	EX INLET	-	-	-	-	1	-	-	-	-
		1A	230+06	32'LT	NB	EX INLET	-	-	-	-	1	-	-	-	-
		1C	298+90	34'LT	BP	126	-	-	-	-	-	1	-	-	-
		1C	225+16	78'LT	NB	241	-	-	-	-	-	1	-	-	-
		1C	225+24	78'LT	NB	242	-	-	1	-	-	-	-	-	-
		1F	207+11	26' RT	NB	EX INLET	-	-	1	-	-	-	-	-	-

CONTINUED ON NEXT SHEET

RECONSTRUCTING MANHOLES AND INLETS (CONTINUED)

PROJECT NO.	CAT	STAGE	STA	OFFSET	ALI	LOCATION	611.0420 RECONSTRUCTING MANHOLES EACH	611.0430 RECONSTRUCTING INLETS EACH	611.8120 S COVER PLATES TEMPORARY EACH	611.9710 SALVAGED INLET COVERS EACH	SPV.0060.100 TEMPORARY DRAINAGE COVER FOR EXISTING INLET OR MANHOLE EACH	SPV.0060.101 TEMPORARY DRAINAGE COVER FOR PROPOSED INLET OR MANHOLE EACH	SPV.0060.104 TEMPORARY INLET CONNECTION TO EXISTING STORM SEWER PIPE EACH	SPV.0060.102 TEMPORARILY DRAIN BETWEEN EXISTING STORM SEWER PIPE AND PROPOSED STORM SEWER PIPE EACH	SPV.0060.103 TEMPORARILY DRAIN BETWEEN EXISTING STORM SEWER PIPE AND PROPOSED STORM SEWER STRUCTURE EACH
PROJECT 5992-10-32 (CONTINUED)															
		1F	207+11	30'RT	NB	IN-5	-	-	-	-	-	-	-	-	-
		1F	207+40	86' LT	NB	EX INLET	-	-	-	1	-	-	-	-	-
		1F	208+45	61'RT	NB	EX INLET	-	-	1	-	-	-	-	-	-
		1F	208+51	68'RT	NB	EX INLET	-	-	1	-	-	-	-	-	-
		1F	210+33	25'RT	NB	144	-	-	1	-	-	-	-	-	-
		1F	210+33	26'RT	NB	IN-2	-	-	-	-	-	-	-	-	1
		1F	210+35	39'RT	NB	EX MANHOLE	1	-	1	-	-	-	-	-	-
		1F	210+39	53'RT	NB	IN-4	-	-	-	-	-	-	1	-	-
		2A	217+70	25'RT	NB	IN-1	-	-	-	-	-	-	-	1	-
		2C	217+28	52'RT	NB	EX INLET	-	-	1	-	-	-	-	-	-
		3A	208+17	133'RT	NB	121	-	-	1	-	-	-	-	-	-
		3A	210+28	28'LT	NB	141	-	-	-	-	-	-	-	-	-
		3A	210+29	21'LT	NB	143	-	-	-	-	-	-	-	-	-
		3A	212+32	37'LT	NB	140	-	-	-	-	-	-	-	-	-
		3A	213+69	49'LT	NB	151	-	-	-	-	-	-	-	-	-
		3A	213+72	31'LT	NB	150	-	-	-	-	-	-	-	-	-
		3A	216+39	27'LT	NB	160	-	-	-	-	-	-	-	-	-
		3A	216+90	21'LT	NB	170	-	-	-	-	-	-	-	-	-
		3A	216+90	32'LT	NB	171	-	-	-	-	-	-	-	-	-
		3A	216+90	38'LT	NB	172	-	-	-	-	-	-	-	-	-
		3A	218+07	22'LT	NB	180	-	-	-	-	-	-	-	-	-
		3A	221+15	24'LT	NB	190	1	-	-	-	-	-	-	-	-
		3A	222+23	15'LT	NB	220	-	-	-	-	-	-	-	-	-
		3A	222+25	23'LT	NB	221	-	-	-	-	-	-	-	-	-
		3A	223+00	37'LT	NB	230	-	-	-	-	-	-	-	-	-
		3A	224+80	39'LT	NB	240	-	-	-	-	-	-	-	-	-
		3A	225+00	LT	NB		-	1	-	-	-	-	-	-	-
		3A	225+79	12'LT	NB	245	-	-	-	-	-	-	-	-	-
		3A	225+79	21'LT	NB	244	-	-	-	-	-	-	-	-	-
		3A	230+06	24'LT	NB	EX INLET	-	-	-	1	-	-	-	-	-
		3A	230+06	32'LT	NB	EX INLET	-	-	-	1	-	-	-	-	-
		3C	298+90	34'LT	BP	126	-	-	-	-	-	-	-	-	-
		3C	208+17	133'RT	NB	121	-	-	-	-	-	-	-	-	-
		3C	210+33	25'RT	NB	144	-	1	-	-	-	-	-	-	-
		3D	207+11	25'LT	NB	EX INLET	-	-	-	1	-	-	-	-	-
		3D	207+11	36'LT	NB	EX INLET	-	-	-	1	-	-	-	-	-
		3D	207+11	26' RT	NB	EX INLET	-	1	-	1	-	-	-	-	-
		2B	225+06	29.9' RT	NB	EX SAS MANHOLE	-	-	-	-	-	-	-	-	-
						PROJECT 5992-10-32 TOTALS	2	3	17	6	6	13	2	9	3
PROJECT 5992-10-33															
	0010	GAMMON PL/GAMMON RD INT - SE CORNER					-	-	-	-		-	-	-	-
						PROJECT 5992-10-33 TOTALS	0	0	0	0		0	0	0	0
						OVERALL PROJECT TOTAL	**2**	**3**	**17**	**6**	**6**	**13**	**2**	**9**	**3**

***ADDITIONAL QUANTITIES LISTED ELSEWHERE**

TEMPORARY STORM SEWER AND INLETS

PROJECT NO.	CAT	STAGE	STA	OFFSET	ALI	LOCATION	SPV.0105.100 TEMPORARY MOVABLE STORM SEWER TRUNK LINE DRAINAGE CONDUIT, CONNECTED AND SEALED AT ENDS LS	SPV.0105.103 TEMPORARY INLET CONNECTION TO EXISTING AND PROPOSED STORM SEWER PIPE STA 224+81'NB' LS	SPV.0105.102 TEMPORARY INLET CONNECTION TO EXISTING INLET STA 207+11'NB' LS	SPV.0105.101 TEMPORARILY DRAIN EXISTING INLET TO PROPOSED INLET STA 222+60'NB' TO STA 222+25'NB' LS	650.4000* CONSTRUCTION STAKING STORM SEWER EACH	SPV.0060.500 ADJUST MMSD SAS SPECIAL EACH
PROJECT 5992-10-32												
	0010	1A	207+11	25'LT	NB	EX INLET	-	-	-	-	-	-
		1A	207+11	36'LT	NB	EX INLET	-	-	-	-	-	-
		1A	207+40	86' LT	NB	EX INLET	-	-	-	-	-	-
		1A	207+40	105'LT	NB	IN-4	-	-	-	-	1	-
		1A	210+28	28'LT	NB	141	-	-	-	-	-	-
		1A	218+07	22'LT	NB	180	1	-	-	-	-	-
		1A	221+15	24'LT	NB	190	-	-	-	-	-	-
		1A	221+40	30'LT	NB	EX INLET	-	-	-	-	-	-
		1A	221+94	21'LT	NB	EX INLET	-	-	-	-	-	-
		1A	222+17	6'LT	NB	IN-1	-	-	-	-	-	-
		1A	222+23	15'LT	NB	220	-	-	-	-	-	-
		1A	222+25	23'LT	NB	221	-	-	-	-	-	-
		1A	222+60	37'LT	NB	IN-6	-	-	-	1	-	-
		1A	223+00	37'LT	NB	230	-	-	-	-	-	-
		1A	224+80	39'LT	NB	240	-	-	-	-	-	-
		1A	224+81	17'LT	NB	IN-7	-	1	-	-	1	-
		1A	225+54	16'LT	NB	EX INLET	-	-	-	-	-	-
		1A	225+79	12'LT	NB	245	-	-	-	-	-	-
		1A	225+79	21'LT	NB	244	-	-	-	-	-	-
		1A	230+06	24'LT	NB	EX INLET	-	-	-	-	-	-
		1F	207+11	30'RT	NB	IN-5	-	-	1	-	-	-
		1F	207+40	86' LT	NB	EX INLET	-	-	-	-	-	-
		1F	208+45	61'RT	NB	EX INLET	-	-	-	-	-	-
		1F	208+51	68'RT	NB	EX INLET	-	-	-	-	-	-
		1F	210+33	25'RT	NB	144	-	-	-	-	-	-
		3D	207+11	26' RT	NB	EX INLET	-	-	-	-	-	-
		2B	225+06	29.9' RT	NB	EX SAS MANHOLE	-	-	-	-	-	-
						PROJECT 5992-10-32 TOTALS	1	1	1	1	2	0
PROJECT 5992-10-33												
	0010		GAMMON PL/GAMMON RD INT - SE CORNER				-	-	-	-	-	1
						PROJECT 5992-10-33 TOTALS	0	0	0	0	0	1
						OVERALL PROJECT TOTAL	**1**	**1**	**1**	**1**	**2**	**1**

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

3

CONCRETE MEDIAN NOSE

PROJECT NO.	CAT	STA	TO	STA	OFFSET	ALI	LOCATION	*416.0610 DRILLED TIE BARS EACH	620.0200 CONCRETE MEDIAN BLUNT NOSE SF	620.0300 CONCRETE MEDIAN SLOPED NOSE SF	COMMENTS
PROJECT 5992-10-32											
	0010	196+10	-	196+20	RT	WBF	SPLITTER ISLAND	8	-	84	TYPE 1
		195+41	-	195+48	RT	WBF	SPLITTER ISLAND	-	30	-	
		207+15	-	207+22	LT	NB	MEDIAN ISLAND	9	-	110	TYPE 1
		208+06	-	208+18	LT	NB	MEDIAN ISLAND	5	-	178	TYPE 1
		208+35	-	208+40	LT	SB	SPLITTER ISLAND	-	-	42	TYPE 1
		399+25	-	399+30	RT	WBO	SPLITTER ISLAND	4	27	-	
		216+05	-	216+08	LT	SB	SPLITTER ISLAND	-	22	-	
		216+98	-	217+04	RT	SB	MEDIAN ISLAND	-	-	37	TYPE 1
		799+00	-	799+06	RT	MA	MEDIAN ISLAND	-	-	34	TYPE 1
		799+48	-	799+55	LT	MA	MEDIAN ISLAND	-	-	40	TYPE 1
		500+38	-	500+45	LT	OD	MEDIAN ISLAND	-	-	55	TYPE 1
		218+26	-	218+32	LT	NB	MEDIAN ISLAND	-	-	34	TYPE 1
		224+78	-	224+84	LT	NB	MEDIAN ISLAND	-	-	36	TYPE 1
		899+69	-	899+75	LT	MB	MEDIAN ISLAND	-	-	41	TYPE 1
		225+52	-	225+59	LT	NB	MEDIAN ISLAND	-	-	50	TYPE 1
							PROJECT 5992-10-32 TOTALS	26	79	741	
							OVERALL PROJECT TOTAL	**26**	**79**	**741**	

***ADDITIONAL QUANTITIES LISTED ELSEWHERE**

LANDMARK REFERENCE MONUMENTS

PROJECT NO.	CAT	STA	OFFSET	ALI	621.0100** LANDMARK REFERENCE MONUMENTS EACH
PROJECT 5992-10-32					
	0010	207+11	26'RT	NB	1
		207+12	24'LT	NB	1
			PROJECT 5992-10-32 TOTALS		2
			OVERALL PROJECT TOTAL		**2**

**DISTURBING EXISTING REFERENCE MONUMENT

DUST CONTROL SURFACE TREATMENT

PROJECT NO.	CAT	LOCATION	623.0200 DUST CONTROL SURFACE TREATMENT SY
PROJECT 5992-10-32			
	0010	PROJECT LIMITS	35400
		PROJECT 5992-10-32 TOTALS	35400
		OVERALL PROJECT TOTAL	**35400**

FENCING

PROJECT NO.	CAT	STA	TO	STA	OFFSET	ALIGN	616.0206 FENCE CHAIN LINK 6-FT LF	COMMENTS
PROJECT 5992-10-31								
	0010	294+00	-	294+10	10'LT	BP	10	
		294+10	-		LT/RT	BP	23	
		294+10	-	294+25	13' RT	BP	15	
		301+00	-	313+90	RT	BP	1295	
					PROJECT 5992-10-31 TOTALS		1343	
					PROJECT TOTAL		**1343**	

EROSION CONTROL MOBILIZATION

PROJECT NO.	CAT	STAGE	LOCATION	628.1905 MOBILIZATION EROSION CONTROL EACH	628.1910 EMERGENCY MOBILIZATION EROSION CONTROL EACH
PROJECT 5992-10-32					
	0010	STAGE 1	GAMMON RD	4	4
		STAGE 2	GAMMON RD	4	4
		STAGE 3	GAMMON RD	3	3
		STAGE 4	GAMMON RD	1	1
			PROJECT 5992-10-32 TOTALS	12	12
			OVERALL PROJECT TOTAL	**12**	**12**

3

FINISHING ITEMS & EROSION CONTROL

PROJECT NO.	CAT	STA	TO	STA	OFFSET	ALI	628.7504 TEMPORARY DITCH CHECKS LF	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	628.7560 TRACKING PADS EACH	SPV.0180.002 TOPSOIL SPECIAL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL	631.0300 SOD WATER MGAL	631.1000 SOD LAWN SY
PROJECT 5992-10-31																				
	0010	292+05	-	295+20	RT	BP	-	-	-	752	-	752	-	0.48	14	-	14	19	-	-
		292+10	-	294+70	LT	BP	-	265	265	150	-	150	-	0.10	-	3	-	4	-	-
		297+00	-	314+78	LT	BP	16	1490	1490	2988	-	2988	-	1.92	46	9	46	75	-	-
		301+15	-	303+25	RT	BP	-	230	230	-	-	-	-	-	-	-	-	-	-	-
		306+50	-	311+70	RT	BP	-	525	525	-	-	-	-	-	-	-	-	-	-	-
		297+55	-	314+78	RT	BP	-	-	-	2480	-	2480	-	1.59	-	46	-	63	-	-
		UNDISTRIBUTED					4	290	290	729	4	729	355	0.42	6	6	6	39	0	0
				PROJECT 5992-10-31 TOTALS			20	2800	2800	7100	4	7100	355	4.51	66	64	66	200	0	0
PROJECT 5992-10-32																				
	0010	206+12	-	207+75	RT	NB	-	-	-	75	-	75	-	0.05	-	1	-	2	-	-
		206+35	-	207+60	LT	SB	-	-	-	45	-	138	-	0.09	-	3	-	1	2	93
		208+05	-	216+53	LT	SB	-	-	-	462	-	1245	-	0.80	-	23	-	12	20	783
		208+10	-	215+50	RT	SB	-	-	-	-	-	986	-	-	-	-	-	-	25	986
		208+50	-	217+15	LT	SW	-	-	-	731	-	731	-	0.47	-	13	-	18	-	-
		208+53	-	213+83	RT	NB	-	-	-	839	-	839	-	0.54	-	15	-	21	-	-
		208+55	-	216+70	RT	NB	-	-	-	-	-	762	-	-	-	-	-	-	19	762
		208+40	-	216+90	LT	SB	-	947	947	-	-	-	-	-	-	-	-	-	-	-
		218+05	-	224+90	LT	SB	-	-	-	93	-	804	-	0.52	-	15	-	2	18	711
		218+05	-	224+90	RT	NB	-	-	-	-	-	442	-	-	-	-	-	-	11	442
		220+90	-	222+75	RT	NB	-	171	171	-	-	-	-	-	-	-	-	-	-	-
		221+50	-	224+70	LT	NB	-	-	-	-	-	330	-	-	-	-	-	-	8	330
		225+50	-	232+25	LT	SB	-	-	-	93	-	821	-	0.53	-	15	-	2	18	728
		225+30	-	228+89	RT	NB	-	-	-	-	-	255	-	-	-	-	-	-	6	255
		225+55	-	231+40	LT	NB	-	-	-	-	-	455	-	-	-	-	-	-	11	455
		UNDISTRIBUTED					0	182	182	262	6	818	435	0.30	0	9	0	42	22	556
				PROJECT 5992-10-32 TOTALS			0	1300	1300	2600	6	8700	435	3.29	0	94	0	100	160	6100
				OVERALL PROJECT TOTAL			**20**	**4100**	**4100**	**9700**	**10**	**15800**	**790**	**7.80**	**66**	**158**	**66**	**300**	**160**	**6100**

3

INLET PROTECTION

PROJECT NO.	STA	OFFSET	ALI	628.7005 INLET PROTECTION TYPE A EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH
PROJECT 5992-10-31						
	297+35	LT	BP	1	-	-
	298+30	LT	BP	1	1	-
	298+30	RT	BP	2	1	-
	298+87	RT	BP	1	-	1
	313+63	LT	BP	1	-	1
	313+65	LT	BP	1	-	1
	313+69	LT	BP	1	-	1
	313+72	LT	BP	1	-	1
	UNDISTRIBUTED			2	1	1
	PROJECT 5992-10-31 TOTALS			11	3	6
PROJECT 5992-10-32						
	207+13	LT	NB	2	-	2
	207+13	RT	NB	1	-	1
	207+40	LT	SB	1	-	1
	208+03	LT	SB	1	-	1
	208+10	LT	SB	1	-	1
	210+30	LT	SB	1	1	-
	210+30	LT	NB	2	2	-
	210+30	RT	NB	1	1	-
	213+65	LT	SB	1	1	-
	213+70	RT	SB	1	1	-
	213+73	LT	NB	1	1	-
	213+75	RT	NB	1	1	-
	216+45	LT	SB	1	1	-
	216+90	LT	SB	1	1	-
	216+90	LT	NB	2	2	-

(CONTINUED)

INLET PROTECTION (CONTINUED)

PROJECT NO.	STA	OFFSET	ALI	628.7005 INLET PROTECTION TYPE A EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH
PROJECT 5992-10-32						
	216+90	RT	NB	1	1	-
	217+05	LT	SB	1	-	1
	217+29	RT	NB	1	-	1
	217+58	LT	SB	1	-	1
	217+65	RT	NB	1	-	1
	218+00	LT	SB	-	-	1
	221+90	RT	NB	1	-	1
	222+00	LT	NB	1	-	1
	222+02	RT	NB	1	-	1
	222+40	LT	SB	1	-	1
	222+48	LT	SB	1	-	1
	222+48	RT	SB	1	-	1
	222+48	RT	NB	1	1	-
	224+90	LT	SB	-	1	-
	225+16	LT	SB	1	-	1
	225+24	LT	SB	1	-	1
	225+35	RT	NB	1	-	1
	225+48	LT	SB	1	1	-
	225+80	LT	NB	2	2	-
	225+80	RT	NB	1	1	-
	225+82	LT	SB	1	-	1
	230+05	LT	SB	-	1	-
	230+05	RT	SB	-	1	-
	230+05	LT	NB	-	1	-
	230+05	RT	NB	-	1	-
	231+95	RT	NB	-	-	1
	232+19	RT	SB	-	-	1
	232+22	RT	NB	-	-	1
	UNDISTRIBUTED			5	2	3
	PROJECT 5992-10-32 TOTALS			43	25	27
	OVERALL PROJECT TOTAL			**54**	**28**	**33**

3

TEMPORARY CROSSWALK AND BUS STOP ACCESS

PROJECT NO.	CAT	STAGE	SPV.0045.001 TEMPORARY CROSSWALK ACCESS NORTH & EAST LEGS ODANA ROAD DAYS	SPV.0045.002 TEMPORARY CROSSWALK ACCESS NORTH LEG GAMMON PLACE DAYS	SPV.0105.002 TEMPORARY BUS STOP ACCESS SUBSTAGES 1B & 1C LS	SPV.0105.003 TEMPORARY BUS STOP ACCESS SUBSTAGES 1D & 1E LS	SPV.0105.004 TEMPORARY BUS STOP ACCESS SUBSTAGES 2A, 2B, & 2C LS	SPV.0105.005 TEMPORARY BUS STOP ACCESS SUBSTAGE 2D LS
PROJECT 5992-10-32								
		1A	35	35	-	-	-	-
		1B, 1C	61	61	1	-	-	-
		1D, 1E	28	28	-	1	-	-
		1F	16	16	-	-	-	-
		2A, 2B, 2C	55	55	-	-	1	-
		2D	11	11	-	-	-	1
		3A	54	54	-	-	-	-
		UNDISTRIBUTED	30	30	-	-	-	-
PROJECT 5992-10-32 TOTALS			**290**	**290**	**1**	**1**	**1**	**1**

3

COVERING SIGNS TYPE II- TRAFFIC CONTROL

PROJECT NO.	CAT	STAGE	STATION	OFFSET	ALI	SIGN WORDING & PICTORIALS	643.0920 * TRAFFIC CONTROL COVING SIGN TYPE II EACH
PROJECT 5992-10-32							
	0010	1B	798+40	RT	MA	INTERSECTION LANE ARROWS	1
		1B	798+55	LT	MA	INTERSECTION LANE ARROWS	1
		1D	520+00	LT	OD	INTERSECTION LANE ARROWS	1
		2B	601+00	LT	GP	LEFT LANE MUST TURN LEFT	1
		2C	798+40	RT	MA	INTERSECTION LANE ARROWS	1
		2C	798+55	LT	MA	INTERSECTION LANE ARROWS	1
		2C	520+00	LT	OD	INTERSECTION LANE ARROWS	1
		2D	798+40	RT	MA	INTERSECTION LANE ARROWS	1
		2D	798+55	LT	MA	INTERSECTION LANE ARROWS	1
						PROJECT 5992-10-32 TOTALS	9
						OVERALL PROJECT TOTAL	**9**

* ALL QUANTITIES USE ONE CYCLE

PERMANENT SIGNING TYPE II

PROJECT NO.	CAT	SIGN NO.	STA	OFFSET	ALI	SIGN WORDING & PICTORIALS	SIGN CODE	SIZE (INCH) X (INCH)	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	SPV.0060.250 INSTALL CITY PROVIDED SIGN EACH	634.0612 POSTS WOOD 4X6-INCH X 12 FT EACH	634.0620 POSTS WOOD 4X6-INCH X 20 FT EACH	SPV.0060.002 PRECAST SIGN POST BASE EACH	SPV.0060.251 SIGN POST BASE FOR CONCRETE INSTALLATION EACH	SPV.0090.250 SIGN POST LF	SPV.0090.251 REFLECTIVE SIGN POST LF	COMMENTS
PROJECT 5992-10-31																				
	0010	1-04	208+55	LT	BC	STOP	R1-1	18 X 18	-	1.86	-	-	-	-	-	1	-	9	-	
		2-03	211+87	RT	BC	YIELD	R1-2	18 X 15.5	-	0.97	-	-	-	-	-	1	-	9	-	
		6-03	40+13	LT	BF	STOP	R1-1	18 X 18	-	1.86	-	-	-	-	-	1	-	9	-	
		6-01	42+17	RT	BF	YIELD	R1-2	18 X 15.5	-	0.97	-	-	-	-	-	1	-	9	-	
		6-02	42+17	RT	BF	MOTOR DRIVEN VEHICLES PROHIBITED			-	-	-	-	1	-	-	1	-	9	-	MOUNT ON BACK OF YIELD SIGN
		8-01	50+14	RT	BH	YIELD	R1-2	18 X 15.5	-	0.97	-	-	-	-	-	1	-	9	-	
		8-05	11+61	LT	BJ	YIELD	R1-2	18 X 15.5	-	0.97	-	-	-	-	-	1	-	9	-	
		8-03	11+61	LT	BJ	STRUCK CANYON UNDERPASS PATH			-	-	-	-	1	-	-	1	-	9	-	MOUNT ABOVE YIELD SIGN
		8-04	11+61	LT	BJ	WEST BELTLINE BIKE PATH			-	-	-	-	1	-	-	1	-	9	-	MOUNT ABOVE YIELD SIGN
		8-02	N/A	LT	BJ	YIELD AHEAD	W3-2	30 X 30	-	-	-	6.25	-	-	-	1	-	11	-	ADD ON OTHER SIDE OF BOX UNDERPASS
		PROJECT 5992-10-31 TOTALS							0	7.60	0	6.25	3	0	0	10	0	92	0	
PROJECT 5992-10-32																				
	0010	1-06	207+07	LT	NB	NO U-TURNS	R3-4	24 X 24	-	4.00	-	-	-	-	-	-	-	-	-	MOUNT ON SIGNAL POLE
		1-07	207+07	LT	NB	KEEP RIGHT	R4-7	24 X 30	-	5.00	-	-	-	-	-	-	-	-	-	MOUNT ON SIGNAL POLE
		1-01	207+39	LT	SB	EAST 12/14 W. BELTLINE HWY LEFT ARROW		54 X 60	-	22.50	-	-	-	-	2	-	-	-	-	
		1-11	207+62	RT	NB	DO NOT ENTER	R5-1	30 X 30	-	6.25	-	-	-	-	-	-	-	-	-	MOUNT ON SIGNAL POLE
		1-10	195+57	RT	WBF	DO NOT ENTER	R5-1	30 X 30	-	6.25	-	-	-	-	-	-	-	-	-	MOUNT ON LIGHT POLE
		1-12	195+57	RT	WBF	ONE WAY	R6-2L	24 X 30	-	5.00	-	-	-	-	-	-	-	-	-	MOUNT ON SIGNAL POLE
		1-13	195+75	RT	WBF	FOLDABLE STOP	R1-1F	30 X 30	-	-	6.25	-	-	-	-	-	-	-	-	MOUNT ON SIGNAL POLE
		1-14	196+10	RT	WBF	DOUBLE DOWN ARROWS	W12-1D	24 X 24	-	-	-	4.00	-	1	-	-	-	-	-	
		1-09	208+20	LT	NB	KEEP RIGHT	R4-7	24 X 30	-	5.00	-	-	-	-	-	-	-	-	-	MOUNT ON SIGNAL POLE
		1-08	208+20	LT	NB	NO U-TURNS	R3-4	24 X 24	-	4.00	-	-	-	-	-	-	-	-	-	MOUNT ON SIGNAL POLE
		1-15	208+22	LT	NB	WEST 12 / 14 LEFT	JV3-2	24 X 84	-	14.00	-	-	-	-	1	-	-	-	-	
		1-02	398+99	LT	WBO	YIELD	R1-2	36 X 31	-	3.88	-	-	-	-	-	-	-	-	-	MOUNT ON LIGHT POLE
		1-03	399+85	RT	WBO	WEST 12 / 14 W. BELTLINE HWY RIGHT ARROW		54 X 60	-	22.50	-	-	-	-	2	-	-	-	-	
		1-05	208+95	LT	SB	NO PARKING ANYTIME	R7-1D	18 X 24	-	3.00	-	-	-	-	-	-	-	-	-	MOUNT ON LIGHT POLE
		1-16	209+71	RT	NB	NO PARKING ANYTIME	R7-1D	18 X 24	-	3.00	-	-	-	-	-	-	-	-	-	MOUNT ON LIGHT POLE
		2-09	211+05.52	RT	NB	SPEED LIMIT 35	R2-1	24 X 30	-	5.00	-	-	-	-	-	-	-	-	-	MOUNT ON LIGHT POLE
		2-10	211+05.52	RT	NB	RIGHT LANE BUSES BICYCLES AND RIGHT TURNS ONLY			-	-	-	-	1	-	-	-	-	-	-	MOUNT ON OVERHEAD SIGN STRUCTURE
		2-01	211+06	LT	NB	SPEED LIMIT 35	R2-1	24 X 30	-	5.00	-	-	-	-	-	1	-	-	10	
		2-02	210+35	LT	SB	NO PARKING ANYTIME	R7-1D	18 X 24	-	3.00	-	-	-	-	-	-	-	-	-	MOUNT ON LIGHT POLE
		2-11	211+72.34	RT	SB	BELTLINE HIGHWAY EAST/GAMMON RD		72 X 192	96.00	-	-	-	-	-	-	-	-	-	-	MOUNT ON OVERHEAD SIGN STRUCTURE
		2-12	211+72.34	RT	SB	GAMMON RD/BELTLINE HWY WEST		72 X 228	114.00	-	-	-	-	-	-	-	-	-	-	MOUNT ON OVERHEAD SIGN STRUCTURE
		2-13	212+47	RT	NB	TRUCK ROUTES HAVE YELLOW SIGN POSTS			-	-	-	-	1	-	-	-	-	-	-	MOUNT ON LIGHT POLE
		2-04	211+72	LT	SB	WEST 12 AND 14 / ARROW TO RIGHT	JV2-2	24 X 84	-	14	-	-	-	-	-	-	-	-	-	MOUNT ON LIGHT POLE
		2-05	213+08	LT	SB	BUS STOP			-	-	-	-	1	-	-	-	-	-	-	MOUNT ON LIGHT POLE
		2-14	213+85.32	RT	NB	RIGHT LANE BUSES BICYCLES AND RIGHT TURNS ONLY			-	-	-	-	1	-	-	-	-	-	-	MOUNT ON OVERHEAD SIGN STRUCTURE
		2-15	213+85.32	RT	NB	NO PARKING ANYTIME	R7-1D	18 X 24	-	3.00	-	-	-	-	-	-	-	-	-	MOUNT ON LIGHT POLE
		2-06	215+34	LT	SB	YIELD	R1-2	36 X 31	-	3.88	-	-	-	-	-	-	-	-	-	MOUNT ON LIGHT POLE
		2-16	214+48	LT	NB	WEST TOWNE LEFT TURN ONLY		42 X 120	-	35.00	-	-	-	-	-	-	-	-	-	MOUNT ON OVERHEAD SIGN STRUCTURE
		2-08	216+35	LT	MAB	NO PARKING ANYTIME	R7-1D	18 X 24	-	3.00	-	-	-	-	-	-	-	-	-	MOUNT ON LIGHT POLE
		2-19	216+04.52	RT	NB	NO PARKING ANYTIME	R7-1D	18 X 24	-	3.00	-	-	-	-	-	-	-	-	-	MOUNT ON LIGHT POLE
		2-18	216+04.52	RT	NB	ODANA RD RIGHT TURN ONLY EXCEPT BUSES AND BIKES		72 X 72	36.00	-	-	-	-	-	-	-	-	-	-	MOUNT ON OVERHEAD SIGN STRUCTURE
		3-12	217+04	RT	NB	NO TURN ON RED	R10-11B	24 X 24	-	4.00	-	-	-	-	-	-	-	-	-	MOUNT ON SIGNAL POLE
		3-01	216+92	LT	NB	NO U-TURNS	R3-4	24 X 24	-	4.00	-	-	-	-	-	-	-	-	-	MOUNT ON SIGNAL POLE
		3-02	216+92	LT	NB	KEEP RIGHT	R4-7	24 X 30	-	5.00	-	-	-	-	-	-	-	-	-	MOUNT ON SIGNAL POLE
		3-03	216+50	LT	SB	MERGE	W4-1	30 X 30	-	-	-	6.25	-	-	-	-	1	-	11	
		3-04	799+03	RT	MA	DOUBLE DOWN ARROWS	W12-1D	24 24	-	-	-	4.00	-	-	-	-	1	10	-	
		3-05	799+38	LT	MA	NO U-TURNS	R3-4	24 24	-	4.00	-	-	-	-	-	-	-	-	-	MOUNT ON SIGNAL POLE
		3-06	799+38	LT	MA	KEEP RIGHT	R4-7	24 30	-	5.00	-	-	-	-	-	-	-	-	-	MOUNT ON SIGNAL POLE
		3-14	500+57	LT	OD	NO U-TURNS	R3-4	24 24	-	4.00	-	-	-	-	-	-	-	-	-	MOUNT ON SIGNAL POLE
		3-15	500+57	LT	OD	KEEP RIGHT	R4-7	24 30	-	5.00	-	-	-	-	-	-	-	-	-	MOUNT ON SIGNAL POLE
		3-16	218+29	RT	NB	NO TURN ON RED	R10-11B	24 24	-	4.00	-	-	-	-	-	-	-	-	-	MOUNT ON SIGNAL POLE ARM
		3-08	218+35	LT	NB	NO U-TURNS	R3-4	24 24	-	4.00	-	-	-	-	-	-	-	-	-	MOUNT ON SIGNAL POLE
		3-09	218+35	LT	NB	KEEP RIGHT	R4-7	24 30	-	5.00	-	-	-	-	-	-	-	-	-	MOUNT ON SIGNAL POLE
		3-20	219+64.1	RT	NB	NO PARKING ANYTIME	R7-1D	18 24	-	3.00	-	-	-	-	-	-	-	-	-	MOUNT ON LIGHT POLE
		3-18	219+64.1	RT	NB	RIGHT LANE BUSES BICYCLES AND RIGHT TURNS ONLY			-	-	-	-	1	-	-	-	-	-	-	MOUNT ON OVERHEAD SIGN STRUCTURE
		3-19	219+64.1	RT	NB	BUS STOP			-	-	-	-	1	-	-	-	-	-	-	MOUNT ON LIGHT POLE
		3-22	220+25	RT	SB	SPEED LIMIT 35	R2-1	24 30	-	5.00	-	-	-	-	-	-	-	-	-	MOUNT ON OVERHEAD SIGN STRUCTURE POLE
		3-11	220+25	RT	SB	ODANA RD LEFT TURN ONLY		42 120	35.00	-	-	-	-	-	-	-	-	-	-	MOUNT ON OVERHEAD SIGN STRUCTURE
		3-10	220+44	LT	SB	NO PARKING ANYTIME	R7-1D	18 24	-	3.00	-	-	-	-	-	-	-	-	-	MOUNT ON LIGHT POLE
		3-23	221+07	RT	NB	SPEED LIMIT 35	R2-1	24 30	-	5.00	-	-	-	-	-	-	-	-	-	MOUNT ON LIGHT POLE

(CONTINUED ON NEXT SHEET)

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PERMANENT SIGNING TYPE II (CONTINUED)

PROJECT NO.	CAT	SIGN NO.	STA	OFFSET	ALI	SIGN WORDING & PICTORIALS	SIGN CODE	SIZE (INCH)	SIZE X (INCH)	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	SPV.0060.250 INSTALL CITY PROVIDED SIGN EACH	634.0612 POSTS WOOD 4X6-INCH X 12 FT EACH	634.0620 POSTS WOOD 4X6-INCH X 20 FT EACH	SPV.0060.002 PRECAST SIGN POST BASE EACH	SPV.0060.251 SIGN POST BASE FOR CONCRETE INSTALLATION EACH	SPV.0090.250 SIGN POST LF	SPV.0090.251 REFLECTIVE SIGN POST LF	COMMENTS
PROJECT 5992-10-32 (CONTINUED)																					
		M-09	222+50	LT	NB	WEST TOWNE LEFT ARROW ENTRANCE				-	-	-	-	-	-	-	-	-	-	22	MOUNT ON OVERHEAD SIGN STRUCTURE
		4-01	222+75	LT	NB	LEFT ARROW ODANA RD		18	72	-	9.00	-	-	-	-	-	2	-	-	22	MOUNT WITH TWO POSTS
		4-02	223+24	LT	SB	NO PARKING ANYTIME	R7-1D	18	24	-	3.00	-	-	-	-	-	-	-	-	-	MOUNT ON LIGHT POLE
		4-10	223+65.15	RT	NB	NO PARKING ANYTIME	R7-1D	18	24	-	3.00	-	-	-	-	-	-	-	-	-	MOUNT ON LIGHT POLE
		4-09	223+65.15	RT	NB	GAMMON PL RIGHT TURN ONLY EXCEPT BUSES AND BIKES		72	78	39.00	-	-	-	-	-	-	-	-	-	-	MOUNT ON OVERHEAD SIGN STRUCTURE
		4-11	224+69	LT	NB	NO U-TURNS	R3-4	24	24	-	4.00	-	-	-	-	-	-	-	-	-	MOUNT ON SIGNAL POLE
		4-12	224+69	LT	NB	KEEP RIGHT	R4-7	24	30	-	5.00	-	-	-	-	-	-	-	-	-	MOUNT ON SIGNAL POLE
		4-04	899+49	LT	MB	NO U-TURNS	R3-4	24	24	-	4.00	-	-	-	-	-	-	-	-	-	MOUNT ON SIGNAL POLE
		4-05	899+49	LT	MB	KEEP RIGHT	R4-7	24	30	-	5.00	-	-	-	-	-	-	-	-	-	MOUNT ON SIGNAL POLE
		4-13	225+75	LT	NB	NO U-TURNS	R3-4	24	24	-	4.00	-	-	-	-	-	-	-	-	-	MOUNT ON SIGNAL POLE
		4-14	225+75	LT	NB	KEEP RIGHT	R4-7	24	30	-	5.00	-	-	-	-	-	-	-	-	-	MOUNT ON SIGNAL POLE
		4-06	225+76	LT	SB	RIGHT LANE MUST TURN RIGHT	R3-7R	30	30	-	6.25	-	-	-	-	-	-	-	-	-	MOUNT ON LIGHT POLE
		4-07	226+81	LT	SB	NO PARKING ANYTIME	R7-1D	18	24	-	3.00	-	-	-	-	-	-	-	-	-	MOUNT ON LIGHT POLE
		4-17	227+12.81	RT	NB	RIGHT LANE BUSES BICYCLES AND RIGHT TURNS ONLY				-	-	-	-	1	-	-	-	-	-	-	MOUNT ON OVERHEAD SIGN STRUCTURE
		4-16	227+12.81	RT	NB	NO PARKING ANYTIME	R7-1D	18	24	-	3.00	-	-	-	-	-	-	-	-	-	MOUNT ON LIGHT POLE
		5-01	227+88	LT	SB	SPEED LIMIT 35	R2-1	24	30	-	5.00	-	-	-	-	-	-	-	-	-	MOUNT ON LIGHT POLE
		5-02	227+92	RT	SB	SPEED LIMIT 35	R2-1	24	30	-	5.00	-	-	-	-	-	1	-	-	10	
		5-03	228+50	LT	NB	MINERAL POINT ROAD		18	60	-	7.50	-	-	-	-	-	2	-	-	18	
		5-13	229+30	RT	NB	SCHOOL ZONE	S1-1	36	36	-	-	-	6.75	-	-	-	1	-	-	12	
		5-12	229+30	RT	NB	AHEAD	W16-9P	24	12	-	-	-	2.00	-	-	-	-	-	-	-	
		5-04	229+32	LT	NB	SCHOOL ZONE	S1-1	36	36	-	-	-	6.75	-	-	-	1	-	-	12	
		5-05	229+32	LT	NB	AHEAD	W16-9P	24	12	-	-	-	2.00	-	-	-	-	-	-	-	
		5-14	229+86.25	RT	NB	MINERAL POINT ROAD RIGHT TURN ONLY EXCEPT BUSES AND BIKES		72	102	51.00	-	-	-	-	-	-	-	-	-	-	MOUNT ON OVERHEAD SIGN STRUCTURE
		5-15	229+86.25	RT	NB	TRUCK ROUTE	R14-1	24	18	-	3.00	-	-	-	-	-	-	-	-	-	MOUNT ON LIGHT POLE
		5-16	229+86.25	RT	NB	DOUBLE SIDED ARROW	M6-4	21	21	-	3.06	-	-	-	-	-	-	-	-	-	MOUNT ON LIGHT POLE
		5-06	229+86	LT	NB	TRUCK ROUTE	R14-1	24	18	-	3.00	-	-	-	-	-	1	-	-	10	
		5-07	229+86	LT	NB	DOUBLE SIDED ARROW	M6-4	21	21	-	3.06	-	-	-	-	-	-	-	-	-	
		5-17	230+43	RT	NB	SCHOOL SPEED LIMIT	S4-51	24	48	-	-	-	8.00	-	-	-	1	-	-	12	
		5-08	230+46	LT	NB	SCHOOL SPEED LIMIT	S4-51	24	48	-	-	-	8.00	-	-	-	1	-	-	12	
		5-09	230+56	LT	SB	NO PARKING ANYTIME	R7-1	18	24	-	3.00	-	-	-	-	-	-	-	-	-	MOUNT ON LIGHT POLE
		5-18	230+98	RT	NB	NO PARKING ANYTIME	R7-1	18	24	-	3.00	-	-	-	-	-	-	-	-	-	MOUNT ON LIGHT POLE
		5-10	231+52	LT	SB	SPEED LIMIT 35	R2-1	24	30	-	5.00	-	-	-	-	-	1	-	-	10	
		5-11	231+52	RT	SB	SPEED LIMIT 35	R2-1	24	30	-	5.00	-	-	-	-	-	1	-	-	10	
		5-19	229+32	LT	NB	FINES HIGHER	R2-6P	18	24		3.00	-	-	-	-	-	-	-	-	-	
		5-20	229+30	LT	NB	FINES HIGHER	R2-6P	18	24		3.00	-	-	-	-	-	-	-	-	-	
	PROJECT 5992-10-32 TOTALS									371.00	345.14	6.25	47.75	7.00	1.00	5.00	13.00	2.00	10.00	171.00	
	OVERALL PROJECT TOTALS									**371.00**	**352.74**	**6.25**	**54.00**	**10**	**1**	**5**	**23**	**2**	**102**	**171**	

MOVING AND REMOVING SIGNS

PROJECT NO.	CAT	SIGN NO.	STA	OFFSET	ALI	SIGN WORDING & PICTORIALS	638.2102 MOVING SIGN TYPE II EACH	638.2602 REMOVING SIGN TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	SPV.0105 OVERHEAD SIGN STRUCTURE REMOVAL LS	638.4000 MOVING SMALL SIGN SUPPORTS EACH	COMMENTS
PROJECT 5992-10-31												
	0010	M-14	60+91	66.2' LT	PL	BIKE ROUTE RIGHT ARROW	1	-	-	-	1	MOVE TO 50+29'BH' RT
		M-15	60+91	66.2' LT	PL	MOTOR DRIVEN VEHICLES PROHIBITED	1	-	-	-	-	MOVE TO 50+14'BH' RT ON BACK OF YIELD SIGN
			60+91	66.2' LT	PL	STRUCK CANYON UNDERPASS PATH	-	1	-	-	-	
			61+23	23.3' LT	PL	BARRIER AHEAD	-	1	1	-	-	
			314+21	6.3' LT	BP	STOP	-	1	1	-	-	
			314+21	6.3' LT	BP	WEST BELTLINE BIKE PATH	-	1	-	-	-	
			PROJECT 5992-10-31 TOTALS				2	4	2	0	1	
PROJECT 5992-10-32												
	0010		207+12	30.0' RT	NB	KEEP RIGHT	-	1	-	-	-	ON SIGNAL POLE
			207+30	32.0' LT	SB	W. BELTLINE HWY LEFT	-	1	-	-	-	ON SIGNAL/ LIGHT POLE
			207+32	32.0' LT	SB	ONE WAY	-	1	1	-	-	
			207+62	35.9' RT	NB	DO NOT ENTER	-	1	-	-	-	ON SIGNAL POLE
			196+15	4.7' RT	WBF	DOUBLE DOWN ARROW	-	1	1	-	-	
			195+75	11.6' RT	WBF	FOLDABLE STOP	-	1	-	-	-	ON SIGNAL POLE
			195+59	17.2' RT	WBF	ONE WAY	-	1	1	-	-	
			195+59	17.2' RT	WBF	DO NOT ENTER	-	1	-	-	-	SHARES POSTS
			195+59	17.2' RT	WBF	ONE WAY	-	1	-	-	-	SHARES POSTS
			208+22	34.0' RT	SB	WEST 12 / 14 LEFT	-	1	1	-	-	
			399+88	5.9' RT	WBO	WEST 12 / 14 RIGHT	-	1	1	-	-	
			398+98	22.7' LT	WBO	YIELD	-	1	-	-	-	ON LIGHT POLE
			208+95	41.7' LT	SB	NO PARKING ANYTIME	-	1	-	-	-	ON LIGHT POLE
			209+70	39.6' RT	NB	NO PARKING ANYTIME	-	1	-	-	-	ON LIGHT POLE
			210+47	19.2' LT	NB	SPEED LIMIT 35	-	1	1	-	-	
			210+77	18.5' LT	NB	WEST TOWNE ENTRANCE TO THE LEFT / AHEAD	-	1	-	-	-	ON OVERHEAD SIGN STRUCTURE
			211+06	28.3' RT	NB	SPEED LIMIT 35	-	1	-	-	-	ON LIGHT POLE
			211+06	28.3' RT	NB	RIGHT LANE BUSES BICYCLES AND RIGHT TURNS ONLY	-	1	-	-	-	ON LIGHT POLE
			211+73	29.8' LT	SB	NO PARKING ANYTIME	-	1	-	-	-	ON LIGHT POLE
			212+07	28.6' RT	SB	ONLY LEFT TURN ARROW	-	1	-	-	-	ON OVERHEAD SIGN STRUCTURE
			212+07	28.6' RT	SB	EAST 12	-	1	-	-	-	ON OVERHEAD SIGN STRUCTURE
			212+07	28.6' RT	SB	EAST 14	-	1	-	-	-	ON OVERHEAD SIGN STRUCTURE
			212+07	28.6' RT	SB	LEFT TURN AND AHEAD ARROW	-	1	-	-	-	ON OVERHEAD SIGN STRUCTURE
	M-01		212+40	26.5' LT	NB	WEST TOWNE ENTRANCE TO THE LEFT / AHEAD ODANA RD RIGHT ARROW	1	-	-	-	2	MOVE TO 210+45 'NB' LT
			212+40	26.5' LT	NB	LEFT TURN LANE STARTS	-	1	-	-	-	SHARES POSTS
			212+47	25.8' RT	NB	TRUCK ROUTES HAVE YELLOW SIGN POSTS	-	1	-	-	-	ON LIGHT POLE
			213+11	39.0' LT	SB	WEST 12	-	1	-	-	-	ON LIGHT POLE
			213+11	39.0' LT	SB	WEST 14 / ARROW TO RIGHT	-	2	-	-	-	ON LIGHT POLE
			213+11	39.0' LT	SB	BUS STOP	-	1	-	-	-	ON LIGHT POLE

(CONTINUED ON NEXT SHEET)

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MOVING AND REMOVING SIGNS (CONTINUED)

PROJECT NO.	CAT	SIGN NO.	STA	OFFSET	ALI	SIGN WORDING & PICTORIALS	638.2102 MOVING SIGN TYPE II EACH	638.2602 REMOVING SIGN TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	SPV.0105 OVERHEAD SIGN STRUCTURE REMOVAL LS	638.4000 MOVING SMALL SIGN SUPPORTS EACH	COMMENTS
PROJECT 5992-10-32 (CONTINUED)												
			213+86	26.9' RT	NB	NO PARKING ANYTIME	-	1	-	-	-	ON LIGHT POLE
			214+32	44.4' LT	SB	YIELD	-	1	-	-	-	ON LIGHT POLE
			214+48	41.0' LT	NB	LEFT TURN ONLY	-	2	-	-	-	ON OVERHEAD SIGN STRUCTURE
			215+09	12.3' LT	NB	DOUBLE DOWN ARROW	-	1	1	-	-	
			215+32	50.0' LT	SB	NO PARKING ANYTIME	-	1	-	-	-	ON LIGHT POLE
			216+05	27.8' RT	NB	RIGHT TURN ONLY EXCEPT BUSES AND BICYCLES	-	1	-	-	-	ON LIGHT POLE WITH EXTENDED ARM
			216+05	27.8' RT	NB	NO PARKING ANYTIME	-	1	-	-	-	ON LIGHT POLE
			216+88	12.4' LT	NB	DO NOT ENTER	-	1	1	-	-	
			217+00	41.3' LT	NB	NO U-TURN / KEEP RIGHT	-	2	-	-	-	ON SIGNAL POLE
			217+11	30.5' RT	NB	NO TURN ON RED	-	1	-	-	-	ON SIGNAL POLE
			799+06	35.4' RT	MA	KEEP RIGHT	-	1	1	-	-	
			799+38	4.9' LT	MA	KEEP RIGHT / NO U-TURNS	-	2	-	-	-	ON SIGNAL POLE
		M-06	799+46	47.6' LT	MA	S GAMMON RD	1	-	-	-	-	ON SIGNAL POLE ARM (MOVE TO NEW SIGNAL POLE ARM)
		M-03	799+62	42.1' RT	MA	ODANA RD	1	-	-	-	-	ON SIGNAL POLE (MOVE TO NEW SIGNAL POLE POLE)
		M-04	799+62	42.1' RT	MA	S. GAMMON RD	1	-	-	-	-	ON SIGNAL POLE (MOVE TO NEW SIGNAL POLE POLE)
		M-02	799+62	42.1' RT	MA	ODANA RD LEFT ARROW	1	-	-	-	-	ON SIGNAL POLE ARM (MOVE TO NEW SIGNAL POLE ARM)
		M-05	500+54	32.8' RT	OD	S GAMMON RD	1	-	-	-	-	ON SIGNAL POLE ARM (MOVE TO NEW SIGNAL POLE ARM)
			500+64	5.0' LT	OD	NO U-TURN / KEEP RIGHT	-	2	-	-	-	ON SIGNAL POLE
			218+26	34.8' RT	SB	NO U-TURN / KEEP RIGHT	-	2	-	-	-	ON SIGNAL POLE
			218+36	5.7' RT	SB	DO NOT ENTER	-	1	1	-	-	
			218+27	28.7' RT	NB	NO TURN ON RED	-	1	-	-	-	ON SIGNAL POLE ARM
		M-07	218+27	28.7' RT	NB	ODANA RD RIGHT	1	-	-	-	-	ON SIGNAL POLE (MOVE TO NEW SIGNAL POLE POLE)
			218+27	28.7' RT	NB	RIGHT LANE BUSES BICYCLES AND RIGHT TURNS ONLY	-	1	-	-	-	ON SIGNAL POLE
			219+68	27.5' RT	NB	NO PARKING ANYTIME / BUS STOP	-	2	-	-	-	ON LIGHT POLE
			220+11	5.7' RT	SB	DOUBLE DOWN ARROW	-	1	1	-	-	
		M-08	220+12	14.9' LT	NB	WEST TOWNE ENTRANCE TO THE LEFT	1	-	-	-	-	MOVE TO NEW OVERHEAD STIGN STRUCTURE S-13-517
			220+45	34.5' LT	SB	NO PARKING ANYTIME	-	1	-	-	-	ON LIGHT POLE
			220+68	34.5' RT	SB	ONLY LEFT / ONLY LEFT / SPEED LIMIT 35	-	3	-	-	-	ON OVERHEAD SIGN STRUCTURE
			221+07	27.6' RT	NB	SPEED LIMIT 35	-	1	-	-	-	ON LIGHT POLE
		M-09	221+88	22.7' LT	NB	WEST TOWNE ENTRANCE TO THE LEFT	1	-	-	-	-	ON EXISTING OVERHEAD SIGN STRUCTURE (MOVE TO 222+50 'NB' LT)
			222+34	16.2' RT	SB	LEFT ODANA RD	-	1	2	-	-	
			223+66	27.8' RT	NB	NO PARKING ANYTIME	-	1	-	-	-	ON LIGHT POLE
			223+24	25.6' LT	SB	NO PARKING ANYTIME	-	1	-	-	-	ON LIGHT POLE
			224+64	27.2' LT	NB	NO U-TURNS	-	1	-	-	-	ON SIGNAL POLE
		M-10	224+60	29.9' LT	SB	LEFT ARROW GAMMON PL	1	-	-	-	-	ON SIGNAL POLE ARM (MOVE TO NEW SIGNAL POLE ARM)
			225+61	27.0' RT	SB	NO U-TURNS	-	1	-	-	-	ON SIGNAL POLE
		M-11	225+74	28.7' RT	NB	GAMMON PL RIGHT ARROW	1	-	-	-	-	ON SIGNAL POLE ARM (MOVE TO NEW SIGNAL POLE ARM)

(CONTINUED ON NEXT SHEET)

3

MOVING AND REMOVING SIGNS (CONTINUED)

PROJECT NO.	CAT	SIGN NO.	STA	OFFSET	ALI	SIGN WORDING & PICTORIALS	638.2102 MOVING SIGN TYPE II EACH	638.2602 REMOVING SIGN TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	SPV.0105 OVERHEAD SIGN STRUCTURE REMOVAL LS	638.4000 MOVING SMALL SIGN SUPPORTS EACH		COMMENTS
PROJECT 5992-10-32 (CONTINUED)													
		M-12	225+74	28.7' RT	NB	GAMMON PL	1	-	-	-	-		ON SIGNAL POLE (MOVE TO NEW SIGNAL POLE)
		M-13	225+74	28.7' RT	NB	S GAMMON RD	1	-	-	-	-		ON SIGNAL POLE (MOVE TO NEW SIGNAL POLE)
			226+02	39.4' LT	SB	RIGHT LANE MUST TURN RIGHT	-	1	-	-	-		ON LIGHT POLE
			226+30	28.8' RT	NB	CURB LANE BUSES BICYCLES AND RIGHT TURNS ONLY	-	1	1	-	-		
			226+68	41.0' LT	SB	NO PARKING ANYTIME	-	1	-	-	-		ON LIGHT POLE
			227+11	27.8' RT	NB	NO PARKING ANYTIME	-	1	-	-	-		ON LIGHT POLE
			227+87	39.7' LT	SB	SPEED LIMIT 35	-	1	-	-	-		ON LIGHT POLE
			227+92	19.6' RT	SB	SPEED LIMIT 35	-	1	1	-	-		
			228+27	18.3' LT	NB	MINERAL POINT RD	-	1	2	-	-		
			229+30	27.7' RT	NB	SCHOOL CROSSING AHEAD	-	2	1	-	-		
			229+32	23.4' LT	NB	SCHOOL CROSSING AHEAD	-	2	1	-	-		
			229+86	25.9' LT	NB	TRUCK ROUTE / DOUBLE ARROW	-	2	1	-	-		
			229+86	27.9' RT	NB	TRUCK ROUTE / DOUBLE ARROW	-	2	-	-	-		ON LIGHT POLE
			229+86	27.9' RT	NB	CURB LANE BUSES BICYCLES AND RIGHT TURNS ONLY	-	1	-	-	-		ON LIGHT POLE
			230+43	28.1' RT	NB	SCHOOL SPEED LIMIT 20 WHEN CHILDREN PRESENT	-	1	1	-	-		
			230+46	26.8' LT	NB	SCHOOL SPEED LIMIT 20 WHEN CHILDREN PRESENT	-	1	1	-	-		
			230+56	28.3' LT	SB	NO PARKING ANYTIME	-	1	-	-	-		ON LIGHT POLE
			231+01	27.8' RT	NB	NO PARKING ANYTIME	-	1	-	-	-		ON LIGHT POLE
			231+50	15.3' RT	SB	SPEED LIMIT 35	-	1	1	-	-		
			231+52	27.1' LT	SB	SPEED LIMIT 35	-	1	1	-	-		
	0010		210+75	LT	NB		-	-	-	1	-	700. (S-13-3063)	CANTILEVER SIGN BRIDGE
	0030		212+07	RT	SB		-	-	-	1	-	701. (S-13-3064)	CANTILEVER SIGN BRIDGE
	0040		214+48	LT	NB		-	-	-	1	-	702. (S-13-3065)	CANTILEVER SIGN BRIDGE
	0050		216+05	RT	NB		-	-	-	1	-	703. (S-13-3066)	CANTILEVER ARM ONLY
	0060		220+12	LT	NB		-	-	-	1	-	704. (S-13-3067)	CANTILEVER SIGN BRIDGE
	0070		220+69	RT	SB		-	-	-	1	-	705. (S-13-3068)	CANTILEVER SIGN BRIDGE
	0010		221+88	LT	NB		-	-	-	1	-	706. (S-13-3069)	CANTILEVER SIGN BRIDGE
		PROJECT 5992-10-32 TOTALS					13	86	24	7	2		
		OVERALL PROJECT TOTALS					**15**	**90**	**26**	**7**	**3**		

3

OVERHEAD SIGN SUPPORT

PROJECT NO.	CAT	STA	OFFSET	ALI	641.8100.08 OVERHEAD SIGN SUPPORT S-13-514 LS	641.8100.09 OVERHEAD SIGN SUPPORT S-13-515 LS	641.1200.10 SIGN BRIDGE CANTILEVERED S-13-516 LS	641.8100.11 OVERHEAD SIGN SUPPORT S-13-517 LS	641.8100.12 OVERHEAD SIGN SUPPORT S-13-518 LS	641.1200.14 SIGN BRIDGE CANTILEVERED S-13-522 LS	641.1200.15 SIGN BRIDGE CANTILEVERED S-13-523 LS	641.1200.16 SIGN BRIDGE CANTILEVERED S-13-525 LS	641.1200.17 SIGN BRIDGE CANTILEVERED S-13-526 LS	641.1200.18 SIGN BRIDGE CANTILEVERED S-13-527 LS	641.1200.19 SIGN BRIDGE CANTILEVERED S-13-528 LS
PROJECT 5992-10-32															
	0030	211+72.34	RT/LT	SB	1	-	-	-	-	-	-	-	-	-	-
	0040	214+48	LT	NB	-	1	-	-	-	-	-	-	-	-	-
	0050	216+04.52	RT	NB	-	-	1	-	-	-	-	-	-	-	-
	0060	219+50	LT	NB	-	-	-	1	-	-	-	-	-	-	-
	0070	220+25	RT	SB	-	-	-	-	1	-	-	-	-	-	-
	0090	211+05.58	RT	NB	-	-	-	-	-	1	-	-	-	-	-
	0100	213+85.32	RT	NB	-	-	-	-	-	-	1	-	-	-	-
	0110	219+67.1	RT	NB	-	-	-	-	-	-	-	1	-	-	-
	0120	227+12.81	RT	NB	-	-	-	-	-	-	-	-	1	-	-
	0130	223+65.15	RT	NB	-	-	-	-	-	-	-	-	-	1	-
	0140	229+86.25	RT	NB	-	-	-	-	-	-	-	-	-	-	1
PROJECT 5992-10-32 TOTALS					1	1	1	1	1	1	1	1	1	1	1
OVERALL PROJECT TOTALS					**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**

PERMANENT PAVEMENT MARKING

PROJECT NO.	CAT	STA	TO	STA	OFFSET	ALI	DESCRIPTION	646.1020 MARKING LINE EPOXY 4-INCH (YELLOW) LF	646.1020 MARKING LINE EPOXY 4-INCH (WHITE) LF	SPV.0090.300 MARKING LINE EPOXY 6-INCH (WHITE) LF	646.1545 GROOVED WET REF CONTRAST EPOXY 4-INCH (YELLOW) LF	646.1545 GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE) LF	646.1555 MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) LF	646.3020 MARKING LINE EPOXY 8-INCH (WHITE) LF	646.3555 MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) LF	646.5020 MARKING ARROW EPOXY EACH	646.5120 MARKING WORD EPOXY EACH	SPV.0060.300 SPECIAL MARKING ARROW EPOXY EACH	SPV.0060.301 SPECIAL MARKING WORD EPOXY EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	SPV.0090.301 MARKING STOP LINE EPOXY 24-INCH LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH LF	SPV.0165.001 COLORED CROSSWALK GREEN SF	646.8120 MARKING CURB EPOXY LF	646.8220 MARKING ISLAND NOSE EPOXY EACH
PROJECT 5992-10-31																										
	0010	294+50	-	314+76		BP	Y4-3	507	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		208+39	-	212+00	LT	BC	Y4-3	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		40+00	-	42+17	LT	BF	Y4-3	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		60+80	-	61+26	LT	PL	Y4	119	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		PROJECT 5992-10-31 TOTALS						770	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
								770			0															
PROJECT 5992-10-32																										
	0010	204+72	-	207+23	LT	NB	W8	-	-	-	-	-	-	251	-	-	-	-	-	-	-	-	-	-	-	-
		204+72	-	207+48	RT	NB	W8-2	-	-	-	-	-	-	69	-	-	-	-	-	-	-	-	-	-	-	-
		203+70	-	204+72	RT	NB	W6-10	-	-	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		203+70	-	207+32		NB	W6-10	-	-	91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		194+74	-	195+50	LT	WBF	5-5	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-	-
		195+45	-	195+54	RT	WBF	CBY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	-
		195+62	-	195+74	RT	WBF	XW6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	-	-	-
		195+43	-	195+60	LT	WBF	XW6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	-	-	-
		195+57	-	195+64	LT	WBF	SL18	-	-	-	-	-	-	-	-	-	-	-	-	26	-	-	-	-	-	-
		195+79	-	195+74	RT	WBF	SL18	-	-	-	-	-	-	-	-	-	-	-	-	28	-	-	-	-	-	-
		195+57	-	199+90	LT	WBF	W4-C	-	-	-	-	440	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		195+61	-	198+00	LT	WBF	W8-CT	-	-	-	-	-	-	-	239	-	-	-	-	-	-	-	-	-	-	-
		195+64	-	198+06	LT	WBF	W8-CT	-	-	-	-	-	-	-	236	-	-	-	-	-	-	-	-	-	-	-
		195+74	-	197+49	RT	WBF	W8-CT	-	-	-	-	-	-	-	177	-	-	-	-	-	-	-	-	-	-	-
		195+76	-	198+40	RT	WBF	W8-CT	-	-	-	-	-	-	-	270	-	-	-	-	-	-	-	-	-	-	-
		195+79	-	199+90	RT	WBF	Y4-C	-	-	-	460	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		196+06	-	196+19	RT	WBF	CBY / INY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	1
		196+14	-	196+25	LT/RT	WBF	A-2	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-
		196+14	-	196+25	RT	WBF	A-3	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
		196+41	-	196+50	LT/RT	WBF	WO	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-
		197+62	-	197+75	LT/RT	WBF	A-2	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-
		197+62	-	197+75	RT	WBF	A-3	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
		197+93	-	198+01	LT/RT	WBF	WO	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-
		198+00	-	200+00		WBF	W4-12.5-CT	-	-	-	-	-	50	-	-	-	-	-	-	-	-	-	-	-	-	-
				206+20	RT	SB	WO	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
		206+00	-	206+75	RT	SB	W8	-	-	-	-	-	-	75	-	-	-	-	-	-	-	-	-	-	-	-
		206+00	-	207+12		SB	W6-10	-	-	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		206+00	-	207+12	LT	SB	W6-10	-	-	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		207+20	-	207+47	LT/RT	NB	SL24	-	-	-	-	-	-	-	-	-	-	-	-	-	55	-	-	-	-	-
		398+68	-	399+45	RT	WBO	Y4	77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		399+28	-	399+35	RT	WBO	CBY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	-
		399+32	-	399+54	RT	WBO	XW6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	-	-	-
		399+57	-	399+67	RT	WBO	XW6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	-	-	-
		399+90	-	399+92	RT	WBO	CBY / INY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	1
		399+67	-	208+16	RT/LT	WBO / SE	W8	-	-	-	-	-	-	110	-	-	-	-	-	-	-	-	-	-	-	-
		207+92	-	208+03	LT	SB	CBY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-
		208+07	-	217+00		NB	W6-10	-	-	223	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		208+07	-	213+00	RT	NB	W8-2	-	-	-	-	-	-	123	-	-	-	-	-	-	-	-	-	-	-	-
				208+16	LT/RT	SB	SL24	-	-	-	-	-	-	-	-	-	-	-	-	-	46	-	-	-	-	-
		208+16	-	210+80	LT	SB	W8-2	-	-	-	-	-	-	66	-	-	-	-	-	-	-	-	-	-	-	-

(CONTINUED ON NEXT SHEET)

PERMANENT PAVEMENT MARKING (CONTINUED)

PROJECT NO.	CAT	STA		TO	STA	OFFSET	ALI	DESCRIPTION	646.1020 MARKING LINE EPOXY 4-INCH (YELLOW) LF	646.1020 MARKING LINE EPOXY 4-INCH (WHITE) LF	SPV.0090.300 MARKING LINE EPOXY 6-INCH (WHITE) LF	646.1545 GROOVED WET REF CONTRAST EPOXY 4-INCH (YELLOW) LF	646.1545 GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE) LF	646.1555 MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) LF	646.3020 MARKING LINE EPOXY 8-INCH (WHITE) LF	646.3555 MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) LF	646.5020 MARKING ARROW EPOXY EACH	646.5120 MARKING WORD EPOXY EACH	SPV.0060.300 SPECIAL MARKING ARROW EPOXY EACH	SPV.0060.301 SPECIAL MARKING WORD EPOXY EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	SPV.0090.301 MARKING STOP LINE EPOXY 24-INCH LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH LF	SPV.0165.001 COLORED CROSSWALK GREEN SF	646.8120 MARKING CURB EPOXY LF	646.8220 MARKING ISLAND NOSE EPOXY EACH
PROJECT 5992-10-32																								
		208+16	-		217+05	LT	SB	W6-10	-	-	222	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		208+16	-		217+05	LT	SB	W6-10	-	-	222	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		208+16	-		212+80	RT	SB	W8	-	-	-	-	-	-	464	-	-	-	-	-	-	-	-	-	-
		209+53	-		213+00	LT	NB	W8-2	-	-	-	-	-	-	87	-	-	-	-	-	-	-	-	-	-
		213+00	-		217+00	LT	NB	W8	-	-	-	-	-	-	400	-	-	-	-	-	-	-	-	-	-
		211+14	-		217+00	LT	NB	W6-10	-	-	147	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		212+02	-		215+34	LT	SB	W8-2	-	-	-	-	-	-	83	-	-	-	-	-	-	-	-	-	-
		213+00	-		217+00	RT	NB	W8	-	-	-	-	-	-	400	-	-	-	-	-	-	-	-	-	-
		213+00	-		217+00	LT	NB	M-2/MO	-	-	-	-	-	-	-	-	6	4	-	-	-	-	-	-	-
		215+00	-		216+05	LT	SB	W8	-	-	-	-	-	-	210	-	-	-	-	-	-	-	-	-	-
		216+84	-		216+58	LT	MAB	XW6	-	-	-	-	-	-	-	-	-	-	-	-	-	44	200	-	-
		216+93	-		217+04	LT	NB	CBY / INY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	1
					217+00	LT/RT	NB	SL24	-	-	-	-	-	-	-	-	-	-	-	-	54	-	-	-	-
		217+05	-		217+11	LT/RT	SB	XW6	-	-	-	-	-	-	-	-	-	-	-	-	-	191	-	-	-
		217+10	-		217+85	LT/RT	SB	5-5	-	-	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-
		217+45	-		218+20	LT/RT	NB	5-5	-	-	-	-	-	-	46	-	-	-	-	-	-	-	-	-	-
		799+00	-		799+10	RT	MA	CBY / INY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	1
		798+80	-		799+02	RT	MA	W8	-	-	-	-	-	-	45	-	-	-	-	-	-	-	-	-	-
		798+80	-		798+88	RT	MA	MO	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-
		799+00	-		799+05	RT	MA	M-1 / M-1 / M-2	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-
		799+30	-		799+35	RT	MA	M-1 / M-1 / M-2	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-
					799+43	RT	MA	SL24	-	-	-	-	-	-	-	-	-	-	-	-	-	33	-	-	-
		799+38	-		799+54	LT	MA	CBY / INY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	1
		799+33	-		799+56	LT	MA	W6-10	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		799+33	-		799+56	LT	MA	W6-10	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		799+56	-		799+67	LT/RT	MA	XW6	-	-	-	-	-	-	-	-	-	-	-	-	-	155	775	-	-
		798+90	-		799+50	RT	MA	W8	-	-	-	-	-	-	60	-	-	-	-	-	-	-	-	-	-
		798+90	-		799+50	RT	MA	W8	-	-	-	-	-	-	60	-	-	-	-	-	-	-	-	-	-
		500+30	-		500+40	LT/RT	OD	XW6	-	-	-	-	-	-	-	-	-	-	-	-	-	173	-	-	-
		500+37	-		500+75	RT	OD	W6-10	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		500+38	-		500+48	LT	OD	CBY / INY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	1
		500+43	-		500+45	LT	OD	SL24	-	-	-	-	-	-	-	-	-	-	-	-	38	-	-	-	-
		500+43	-		500+75	LT	OD	W8	-	-	-	-	-	-	32	-	-	-	-	-	-	-	-	-	-
		500+43	-		500+75	LT	OD	W8	-	-	-	-	-	-	32	-	-	-	-	-	-	-	-	-	-
						OD		W6-10	-	-	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		218+20	-		218+26	LT/RT	SB	XW6	-	-	-	-	-	-	-	-	-	-	-	-	-	197	-	-	-
		218+25	-		224+67		NB	W6-10	-	-	161	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		218+25	-		221+25	RT	NB	W8-2	-	-	-	-	-	-	75	-	-	-	-	-	-	-	-	-	-
		221+25	-		224+67	RT	NB	W8	-	-	-	-	-	-	342	-	-	-	-	-	-	-	-	-	-
					218+30	LT/RT	SB	SL24	-	-	-	-	-	-	-	-	-	-	-	-	53	-	-	-	-
		218+26	-		218+33	RT	SB	CBY / INY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	1
		218+30	-		221+00	RT	SB	M-2/MO	-	-	-	-	-	-	-	-	-	-	4	2	-	-	-	-	-
		218+30	-		221+13	RT	SB	W6-10	-	-	71	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		218+30	-		221+13	RT	SB	W8	-	283	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		218+30	-		224+72	LT	SB	W6-10	-	-	161	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		218+30	-		224+72		SB	W6-10	-	-	161	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		222+26	-		224+67	LT	NB	W8	-	-	-	-	-	-	241	-	-	-	-	-	-	-	-	-	-
		224+66	-		224+72	LT	NB	CBY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-
					224+67	LT/RT	NB	SL24	-	-	-	-	-	-	-	-	-	-	-	-	45	-	-	-	-

(CONTINUED ON NEXT SHEET)

3

PERMANENT PAVEMENT MARKING (CONTINUED)

PROJECT NO.	CAT	STA	TO	STA	OFFSET	ALI	DESCRIPTION	646.1020 MARKING LINE EPOXY 4-INCH (YELLOW) LF	646.1020 MARKING LINE EPOXY 4-INCH (WHITE) LF	SPV.0090.300 MARKING LINE EPOXY 6-INCH (WHITE) LF	646.1545 GROOVED WET REF CONTRAST EPOXY 4-INCH (YELLOW) LF	646.1545 GROOVED WET REF CONTRAST EPOXY 4-INCH (WHITE) LF	646.1555 MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (WHITE) LF	646.3020 MARKING LINE EPOXY 8-INCH (WHITE) LF	646.3555 MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE) LF	646.5020 MARKING ARROW EPOXY EACH	646.5120 MARKING WORD EPOXY EACH	SPV.0060.300 SPECIAL MARKING ARROW EPOXY EACH	SPV.0060.301 SPECIAL MARKING WORD EPOXY EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	SPV.0090.301 MARKING STOP LINE EPOXY 24-INCH LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH LF	SPV.0165.001 COLORED CROSSWALK GREEN SF	646.8120 MARKING CURB EPOXY LF	646.8220 MARKING ISLAND NOSE EPOXY EACH
PROJECT 5992-10-32																									
		224+71	-	224+77	LT/RT	NB	XW6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90	-	-	-
		224+72	-	224+78	LT/RT	SB	XW6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	77	-	-	-
		224+77	-	224+84	LT	NB	INY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
				899+45	RT	MB	SL24	-	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-
		899+50	-	899+62	RT	MB	XW6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51	260	-	-
		899+34	-	899+45	RT	MB	W6-10	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		899+34	-	899+50	LT	MB	W6-10	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		899+50	-	899+62	LT	MB	XW6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63	315	-	-
				899+35	RT	MB	M-2/M-3	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
				899+40	LT	MB	M-2	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
		899+65	-	899+75	LT	MB	CBY / INY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	1
		600+31	-	600+37	LT/RT	GP	XW6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96	-	-	-
				600+43	LT	GP	SL24	-	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-
		600+37	-	600+75		GP	DY4	76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		600+37	-	600+75	LT	GP	W8	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-	-	-	-
		600+64	-	600+70	LT	GP	M-2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
		225+52	-	225+68	RT	SB	CBY / INY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	1
		228+56	-	232+10	LT	NB	W8	-	-	-	-	-	-	354	-	-	-	-	-	-	-	-	-	-	-
		225+67	-	225+74	LT/RT	NB	XW6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68	-	-	-
		225+68	-	225+74	LT/RT	SB	XW6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	111	-	-	-
		225+74	-	232+10		NB	W6-10	-	-	159	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		225+74	-	228+75	RT	NB	W8-2	-	-	-	-	-	-	75	-	-	-	-	-	-	-	-	-	-	-
		228+75	-	232+10	RT	NB	W8	-	-	-	-	-	-	335	-	-	-	-	-	-	-	-	-	-	-
		225+78	-	227+20	RT	SB	W8	-	-	-	-	-	-	142	-	-	-	-	-	-	-	-	-	-	-
		225+78	-	228+25	LT	SB	W8	-	-	-	-	-	-	247	-	-	-	-	-	-	-	-	-	-	-
		225+78	-	232+09	LT	SB	W6-10	-	-	158	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		225+78	-	232+09	LT	SB	W6-10	-	-	158	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				225+79	LT/RT	SB	SL24	-	-	-	-	-	-	-	-	-	-	-	-	-	54	-	-	-	-
		232+09	-	232+19	LT/RT	SB	XW6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	84	440	-	-
				232+10	LT/RT	NB	SL24	-	-	-	-	-	-	-	-	-	-	-	-	-	45	-	-	-	-
		232+10	-	232+20	LT/RT	NB	XW6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	102	530	-	-
UNDISTRIBUTED								-	-	-	-	-	-	-	-	-	-	14	9	-	-	-	-	-	-
PROJECT 5992-10-32 TOTALS								153	283	2091	460	440	50	4553	922	14	11	29	14	54	471	1703	2520	194	10
								436			900														
OVERALL PROJECT TOTALS								**923**	**283**	**2091**	**460**	**440**	**50**	**4553**	**922**	**14**	**11**	**29**	**14**	**54**	**471**	**1703**	**2520**	**194**	**10**
								1206			**900**														

3

TRAFFIC CONTROL

PROJECT NO.	CAT	STAGE	DAYS	643.0300 DRUMS EACH	643.0300 DRUMS DAYS	643.0410 BARRICADES TYPE II EACH	643.0410 BARRICADES TYPE II DAYS	643.0420 BARRICADES TYPE III EACH	643.0420 BARRICADES TYPE III DAYS	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES EACH	643.0705 WARNING LIGHTS TYPE A EACH	643.0705 WARNING LIGHTS TYPE A DAYS	643.0715 WARNING LIGHTS TYPE C EACH	643.0715 WARNING LIGHTS TYPE C DAYS	643.0800 ARROW BOARDS EACH	643.0800 ARROW BOARDS DAYS	643.0900 TRAFFIC CONTROL SIGNS EACH	643.0900 TRAFFIC CONTROL SIGNS DAYS	643.1070 TRAFFIC CONES 42-INCH EACH	643.1070 TRAFFIC CONES 42-INCH DAYS	644.1810 TEMPORARY PEDESTRIAN BARRICADE LF	616.0700.S FENCE SAFETY LF
PROJECT 5992-10-31																							
	0010	Phase A	28	20	560	-	-	1	28	-	-	2	56	-	-	-	-	9	252	-	-	395	-
		Phase B	28	20	560	1	28	2	56	-	-	4	112	1	28	-	-	15	420	11	308	280	80
		Phase C	109	20	2180	-	-	2	218	-	-	4	436	-	-	-	-	8	872	-	-	-	-
	UNDISTRIBUTED				400		72		98	0	0		96		72		0		156		32	125	20
	PROJECT 5992-10-31 TOTALS				**3700**		**100**		**400**	**0**	**0**		**700**		**100**		**0**		**1700**		**340**	**800**	**100**
PROJECT 5992-10-32																							
	0010	1A	35	262	9170	15	525	15	525	-	-	26	910	16	560	4	140	150	5250	-	-	-	-
		1B	47	139	6533	15	705	22	1034	95	95	32	1504	20	940	4	188	160	7520	-	-	780	2160
		1C	14	160	2240	15	210	26	364	93	93	39	546	16	224	4	56	183	2562	-	-	-	-
		1D	14	182	2548	15	210	27	378	95	95	41	574	20	280	4	56	184	2576	-	-	200	-
		1E	14	189	2646	15	210	23	322	95	95	36	504	20	280	4	56	163	2282	-	-	-	-
		1F	16	246	3936	13	208	24	384	-	-	34	544	9	144	4	64	168	2688	-	-	1780	535
		2A	35	172	6020	13	455	24	840	62	62	35	1225	1	35	4	140	149	5215	-	-	-	-
		2B	10	188	1880	13	130	29	290	62	62	42	420	7	70	4	40	151	1510	-	-	-	-
		2C	10	202	2020	13	130	27	270	53	53	41	410	7	70	4	40	151	1510	-	-	-	-
		2D	11	190	2090	13	143	27	297	53	53	41	451	7	77	4	44	151	1661	-	-	-	-
		3A	54	143	7722	8	432	21	1134	-	-	30	1620	7	378	4	216	145	7830	-	-	-	-
		3B	10	116	1160	8	80	12	120	-	-	20	200	1	10	4	40	120	1200	-	-	-	-
		3C	11	82	902	8	88	7	77	-	-	14	154	7	77	4	44	115	1265	-	-	-	-
		3D	7	75	525	8	56	5	35	-	-	8	56	1	7	4	28	113	791	-	-	-	-
		SUBSTAGE 3D	7	52	364	-	-	3	21	-	-	6	42	-	-	4	28	107	749	-	-	-	-
	UNDISTRIBUTED				4944		318		609	62	62		940		348		120		4491		0	240	305
	PROJECT 5992-10-32 TOTALS				**54700**		**3900**		**6700**	**670**	**670**		**10100**		**3500**		**1300**		**49100**		**0**	**3000**	**3000**
	OVERALL PROJECT TOTAL				**58400**		**4000**		**7100**	**670**	**670**		**10800**		**3600**		**1300**		**50800**		**340**	**3800**	**3100**

FIXED MESSAGE SIGNS- TRAFFIC CONTROL

PROJECT NO.	CAT	STAGE	SIGN NO.	LOCATION	SIGN WORDING & PICTORIALS	EACH	DIMENSION	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF
PROJECT 5992-10-31								
	0010	PHASE B	R11(MOD)	PATH & PARKING LOT	BIKE PATH GRAVEL WALK BIKES	4	36 x 18	18.00
					PROJECT 5992-10-31 TOTALS			18.00
PROJECT 5992-10-32								
	0010	1A	M1-94(MOD)		GAMMON ROAD	1	42 x 24	7.00
		1A	M1-94(MOD)		GAMMON ROAD	13	48 x 30	130.00
		1B	R9-11(MOD)	MALL SERVICE ROAD	TO BUS STOP SB GAMMON RD ROUTES 63 & 73	6	24 x 12	12.00
		2B	R9-11(MOD)	MALL SERVICE ROAD	TO BUS STOP EB ODANA RD ROUTES 63 & 73	6	24 x 12	12.00
					PROJECT 5992-10-32 TOTALS			161.00
					OVERALL PROJECT TOTAL			**179.00**

PCMS- TRAFFIC CONTROL

PROJECT NO.	CAT	STAGE	ALI	DAYS	NO. IN SERVICE EACH	643.1050 SIGNS PCMS DAYS
PROJECT 5992-10-32						
	0010	1A	NB, SB, WBF	35	3	105
		1A	WBO	7	1	7
		1B	NB, SB, WBF	47	3	141
		1B	WBO	7	1	7
		1C	NB, SB, WBF	14	3	42
		1D	NB, SB, WBF	14	3	42
		1E	NB, SB, WBF	14	3	42
		1F	NB, SB, WBF	16	3	48
		1F	WBO	7	1	7
		2A	NB, SB, WBF	35	3	105
		2B	NB, SB, WBF	10	3	30
		2C	NB, SB, WBF	10	3	30
		2C	OD	7	1	7
		2D	NB, SB, WBF	11	3	33
		3A	NB, SB, WBF	54	3	162
		3B	NB, SB, WBF	12	3	36
		3C	NB, SB, WBF	11	3	33
		3D	NB, SB, WBF	14	3	42
		4	NB, SB, WBF	7	3	21
			PROJECT 5992-10-32 TOTALS			940
			OVERALL PROJECT TOTAL			**940**

3

TEMPORARY PAVEMENT MARKING

PROJECT NO.	CAT	STAGE	646.9000 MARKING REMOVAL LINE 4-INCH LF	646.9010 MARKING REMOVAL LINE WATER BLASTING 4-INCH LF	646.9100 MARKING REMOVAL LINE 8-INCH LF	646.9110 MARKING REMOVAL LINE WATER BLASTING 8-INCH LF	646.9200 * MARKING REMOVAL LINE WIDE LF	646.9210 * MARKING REMOVAL LINE WATER BLASTING WIDE LF	646.9300 MARKING REMOVAL SPECIAL MARKING EACH	646.9310 MARKING REMOVAL SPECIAL MARKING WATER BLASTING EACH	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH WHITE LF	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH YELLOW LF	649.0150 TEMPORARY MARKING LINE TAPE 4-INCH WHITE LF	649.0150 TEMPORARY MARKING LINE TAPE 4-INCH YELLOW LF	649.0205 TEMPORARY MARKING LINE PAINT 8-INCH WHITE LF	649.0250 TEMPORARY MARKING LINE TAPE 8-INCH WHITE LF	649.0505 TEMPORARY MARKING ARROW PAINT EACH	649.0550 TEMPORARY MARKING ARROW REMOVABLE TAPE EACH	649.0605 TEMPORARY MARKING WORD PAINT EACH	649.0650 TEMPORARY MARKING WORD REMOVABLE TAPE EACH	649.0805 TEMPORARY MARKING STOP LINE PAINT 18-INCH LF	649.0850 TEMPORARY MARKING STOP LINE REM TAPE 18-INCH LF
PROJECT 5992-10-32																							
	0010	1A	3696	185	830	370	177	-	-	-	2420	4630	-	-	2070	-	-	2	-	1	190	-
		1B	349	-	400	-	12	-	-	-	3830	5140	-	-	1400	-	-	-	-	-	140	-
		1C	-	-	-	-	-	-	-	-	100	-	-	-	-	-	-	-	-	-	35	-
		1E	-	-	-	-	-	-	-	4	390	-	-	-	-	-	-	-	-	-	-	-
		1F	506	-	-	-	39	-	-	-	1140	2050	-	-	1470	-	-	-	-	-	240	-
		2A	777	94	181	-	96	48	-	3	3559	4760	191	-	1100	-	-	-	-	-	184	36
		2B	103	-	-	-	-	-	-	-	140	-	-	-	-	-	-	-	-	-	-	-
		2C	-	180	-	-	-	-	-	-	90	-	-	180	-	-	-	-	-	-	-	-
		2D	-	-	-	-	-	-	-	-	240	70	-	-	-	-	-	-	-	-	15	-
		3A	842	-	283	133	-	-	-	-	1946	3740	244	-	707	133	4	-	4	-	120	36
		3B	2964	290	340	280	-	-	4	-	3247	1126	323	284	1912	158	4	-	4	-	310	-
		3C	545	400	170	160	48	-	-	3	1550	-	-	-	610	-	3	1	3	1	-	-
		3D	856	-	283	-	48	-	-	3	710	-	-	-	780	-	-	-	-	-	50	-
		CROSSWALKS	-	-	-	-	-	-	-	-	1270	-	-	-	-	-	-	-	-	-	-	-
		UNDISTRUBUTED	1060	110	250	90	40	0	0	0	2060	2150	80	50	1000	30	0	0	0	0	130	10
PROJECT 5992-10-32 TOTALS			11698	1259	2736	1033	460	48	4	13	22692	23666	838	514	11049	321	11	3	11	2	1414	82

* STOP BAR

3

CONSTRUCTION STAKING

PROJECT NO.	CAT	STA	TO	STA	ALIGN	650.4500* CONSTRUCTION STAKING SUBGRADE LF	SPV.0090.007 CONSTRUCTION STAKING BIKE PATH LF	650.5000* CONSTRUCTION STAKING BASE LF	650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT LF	650.9920* CONSTRUCTION STAKING SLOPE STAKES LF
PROJECT 5992-10-31										
	0010	294+50	-	295+18	BP	-	68	-	-	-
		298+24	-	314+76	BP	-	1652	-	-	-
		208+44	-	211+98	BC	-	354	-	-	-
		40+05	-	42+18	BF	-	213	-	-	-
		50+05	-	50+23	BH	-	18	-	-	-
		11+50	-	11+70	BJ	-	20	-	-	-
				Parking Lot		167	-	167	-	167
				PROJECT 5992-10-31 TOTALS		167	2325	167	0	167
PROJECT 5992-10-32										
	0010	207+00	-	207+58	NB	58	-	58	-	-
		208+07	-	228+89	NB	2082	-	2082	-	2082
		208+03	-	229+65	SB	2162	-	2162	-	2162
		194+70	-	197+58	WBF	288	-	288	-	288
		195+46	-	195+77	WBF	31	-	31	-	-
		196+19	-	197+58	WBF	-	-	-	139	-
		399+12	-	399+64	WBO	52	-	52	52	40
		399+24	-	400+24	WBO	100	-	100	-	100
		208+18	-	216+42	SW	-	824	-	-	-
		208+54	-	213+50	NB	496	-	496	-	-
		33+34	-	35+09	BD	175	-	175	-	175
		798+76	-	799+78	MA	102	-	102	-	102
		500+20	-	500+75	OD	55	-	55	-	55
		218+28	-	224+70	SB	-	642	-	-	-
		225+80	-	231+71	SB	-	591	-	-	-
		898+76	-	899+78	MB	102	-	102	-	102
		600+21	-	600+75	GP	54	-	54	-	54
		228+89	-	229+65	NB	76	-	76	76	76
				PROJECT 5992-10-32 TOTALS		5833	2057	5833	267	5236
				OVERALL PROJECT TOTAL		**6000**	**4382**	**6000**	**267**	**5403**

***ADDITIONAL QUANTITIES LISTED ELSEWHERE**

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CONSTRUCTION STAKING STRUCTURE LAYOUT

PROJECT NO.	CAT	650.6500.01 B-13-0870 LS	650.6500.02 R-13-0338 LS	650.6500.04 R-13-0340 LS	650.6500.05 R-13-0341 LS	650.6500.06 R-13-0342 LS	650.6500.07 R-13-0343 LS
PROJECT 5992-10-31							
	0020	1	-	-	-	-	-
	0030	-	1	-	-	-	-
	0040	-	-	1	-	-	-
	0050	-	-	-	1	-	-
	0060	-	-	-	-	1	-
	0070	-	-	-	-	-	1
PROJECT 5992-10-31 TOTALS		1	1	1	1	1	1

CONSTRUCTION STAKING

PROJECT NO.	CAT	650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS 5992-10-31 LS	650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS 5992-10-32 LS	650.9910.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL 5992-10-31 LS	650.9910.02 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL 5992-10-32 LS
PROJECT 5992-10-31					
	0010	1	-	1	-
PROJECT 5992-10-31 TOTALS		1	-	1	-
PROJECT 5992-10-32					
	0010	-	1	-	1
PROJECT 5992-10-32 TOTALS		-	1	-	1

3

CONSTRUCTION STAKING STRUCTURE LAYOUT (CONTINUED)

PROJECT NO.	CAT	650.6500.03 R-13-0339 LS	650.6500.08 S-13-514 LS	650.6500.09 S-13-515 LS	650.6500.10 S-13-516 LS	650.6500.11 S-13-517 LS	650.6500.12 S-13-518 LS	650.6500.14 S-13-522 LS	650.6500.15 S-13-523 LS	650.6500.16 S-13-525 LS	650.6500.17 S-13-526 LS	650.6500.18 S-13-527 LS	650.6500.19 S-13-528 LS
PROJECT 5992-10-32													
	0020	1	-	-	-	-	-	-	-	-	-	-	-
	0030	-	1	-	-	-	-	-	-	-	-	-	-
	0040	-	-	1	-	-	-	-	-	-	-	-	-
	0050	-	-	-	1	-	-	-	-	-	-	-	-
	0060	-	-	-	-	1	-	-	-	-	-	-	-
	0070	-	-	-	-	-	1	-	-	-	-	-	-
	0090	-	-	-	-	-	-	1	-	-	-	-	-
	0100	-	-	-	-	-	-	-	1	-	-	-	-
	0110	-	-	-	-	-	-	-	-	1	-	-	-
	0120	-	-	-	-	-	-	-	-	-	1	-	-
	0130	-	-	-	-	-	-	-	-	-	-	1	-
	0140	-	-	-	-	-	-	-	-	-	-	-	1
PROJECT 5992-10-32 TOTALS		1	1	1	1	1	1	1	1	1	1	1	1

LIGHTING CONDUIT AND WIRE

PROJECT NO.	CAT	FROM	TO	652.0225 SCHEDULE 40 2-INCH LF	652.0325 SCHEDULE 80 2-INCH LF	652.0605 SPECIAL SCHEDULE 80 2-INCH LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF
5992-10-31								
	0012	HH38	P1	60	-	-	66	198
		HH39	HH40	125	-	-	131	393
		HH40	UNDERPASS	30	-	-	36	108
		UNDERPASS	U FIXTURES	-	-	-	725	2175
		HH40	P2	125	-	-	131	393
		P2	P3	185	-	-	191	573
		P3	HH46	25	-	-	31	93
		HH46	P12	175	15	-	196	588
		HH46	P4	160	-	-	166	498
		P4	P5	185	-	-	191	573
		P5	P6	175	-	-	181	543
		P6	P7	180	-	-	186	558
		P7	P8	180	-	-	186	558
		P8	P9	185	-	-	191	573
		P9	P11	65	-	-	71	213
		P11	P10	160	10	-	176	528
		P10	STUB	20	-	-	26	78
		MH6	SSL2	80	-	-	86	258
		STRUCK UNDERPASS		-	-	-	725	2175
		UNDISTRIBUTED		-	-	100	-	-
		ID 5992-10-31 TOTALS		**2,115**	**25**	**100**	**3,692**	**11,076**
PROJECT 5992-10-32								
	0012	HH1	4839	140	-	-	146	438
		4839	4837	120	-	-	126	378
		4837	4835	150	-	-	156	468
		4835	4833	110	-	-	116	348
		4833	HH14	100	-	-	106	318
		HH2	4840	105	-	-	111	333
		4840	4838	110	-	-	116	348
		4838	4836	135	-	-	141	423
		4836	4834	140	-	-	146	438
		4834	HH4	130	-	-	136	408
		HH4	HH5	60	-	-	66	198
		HH4	4831	5	-	-	11	33
		HH5	TSC1	10	-	-	16	48
		TSC1	SLC1	5	-	-	11	33
		HH5	HH6	-	50	-	56	168
		HH6	HH7	50	-	-	56	168
	**	HH7	4829	-	-	-	16	48
		HH7	HH8	-	55	-	61	183
		HH8	HH10	-	45	-	51	153
		HH10	4828	10	-	-	16	48
		HH10	HH11	50	-	-	56	168
		HH11	HH12	-	30	-	36	108
		HH12	HH13	-	30	-	36	108
		HH13	4830				16	48
		HH13	HH14	45	-	-	51	153

CONTINUED

LIGHTING CONDUIT AND WIRE (CONTINUED)

PROJECT NO.	CAT	FROM	TO	652.0225 SCHEDULE 40 2-INCH LF	652.0325 SCHEDULE 80 2-INCH LF	652.0605 SPECIAL SCHEDULE 80 2-INCH LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF
5992-10-32								
		HH14	4832	5	-	-	11	33
		HH14	HH15	-	65	-	71	213
		HH15	HH4	-	45	-	51	153
		HH10	4826	135	-	-	141	423
		4826	4824	140	-	-	146	438
		4824	4822	140	-	-	146	438
		4822	4820	115	-	-	121	363
		4820	HH30	90	-	-	96	288
		HH7	4827	100	-	-	106	318
		4827	4825	120	-	-	126	378
		4825	4823	140	-	-	146	438
		4823	4821	140	-	-	146	438
		4821	HH18	120	-	-	126	378
		HH18	HH19	50	-	-	56	168
		HH18	4817	10	-	-	16	48
	**	HH19	4816	-	-	-	16	48
		HH19	HH20	-	45	-	51	153
		HH20	HH21	-	40	-	46	138
		HH21	4814	5	-	-	11	33
		HH21	HH22	60	-	-	66	198
	**	HH22	4813	-	-	-	26	78
		HH22	HH23	-	60	-	66	198
		HH23	HH24	-	45	-	51	153
		HH24	HH25	-	35	-	41	123
		HH24	4815	15		-	21	63
		HH24	HH26	65		-	71	213
		HH26	HH27	-	40	-	46	138
		HH27	HH29	-	40	-	46	138
	**	HH29	4810	-		-	16	48
		HH29	HH30	60		-	66	198
	**	HH30	4819	-		-	26	78
		HH30	HH31	-	60	-	66	198
		HH31	HH18	-	45	-	51	153
		HH25	4812	25	-	-	31	93
		4812	4810	100	-	-	106	318
		4810	4808	100	-	-	106	318
		4808	4806	125	-	-	131	393
		4806	4804	140	-	-	146	438
		4804	4802	140	-	-	146	438
		4802	4800	145	-	-	151	453
		4800	HH38	10	-	-	16	48
		HH38	4793	140	-	-	146	438
		HH22	4811	80	-	-	86	258
		4811	4809	110	-	-	116	348
		4809	4807	110	-	-	116	348

CONTINUED ON NEXT SHEET

** CONDUIT INCLUDED IN TRAFFIC SIGNAL TABLE

3

LIGHTING CONDUIT AND WIRE (CONTINUED)

PROJECT NO.	CAT	FROM	TO	652.0225 SCHEDULE 40 2-INCH LF	652.0325 SCHEDULE 80 2-INCH LF	652.0605 SPECIAL SCHEDULE 80 2-INCH LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF
5992-10-32								
		4807	4805	140	-	-	146	438
		4805	4803	145	-	-	151	453
		4803	4801	140	-	-	146	438
		4801	SLC2	55	-	-	61	183
		SLC2	HH38	140	-	-	146	438
		SLC2	HH39	70	-	-	76	228
		4793	MH2	-	75	-	81	243
		MH2	MH1	20	-	-	26	78
		MH2	MH9	-	100	-	106	318
		MH9	MH10	-	65	-	71	213
		MH10	MH13	-	75	-	81	243
		MH13	4791	30	-	-	36	108
		4791	MATCH EX	20	-	-	26	78
		MH13	MH11	60	-	-	66	198
		MH11	SSL1	45	-	-	51	153
		MH11	MH4	-	55	-	61	183
		MH4	MH3	-	80	-	86	258
		MH3	MH1	-	65	-	71	213
		EXC	MH5	35	-	-	41	123
		EXC	MH6	55	-	-	61	183
		MH6	SSL2	-	45	-	51	153
		MH6	MH17	-	90	-	96	288
		MH17	MH4	45	-	-	51	153
	**	MH9	4792	-	-	-	21	63
	**	MH4	4794	-	-	-	21	63
		ID 5992-10-32 TOTALS		**5,210**	**1,380**	**0**	**7,270**	**21,810**
		OVERALL PROJECT TOTALS		**7,325**	**1,405**	**100**	**10,962**	**32,886**

** CONDUIT INCLUDED IN TRAFFIC SIGNAL TABLE

3

STREET LIGHT REMOVALS

PROJECT NO.	CAT	STATION		OFFSET	204.0195* REMOVING CONCRETE BASES EACH	653.0905* REMOVING PULL BOXES EACH
5992-10-32						
	0012	230+55.60	SB	LT-28.29	1	-
		229+35.38	SB	LT-30.34	1	-
		227+88.05	SB	LT-39.77	1	-
		226+81.30	SB	LT-39.29	1	-
		226+01.31	SB	LT-39.12	1	-
		224+60.02	SB	LT-29.61	1	-
		223+23.44	SB	LT-25.55	1	-
		221+83.81	SB	LT-31.37	1	-
		220+44.24	SB	LT-34.32	1	-
		219+30.27	SB	LT-34.05	1	-
		218+22.87	SB	LT-34.47	1	-
		218+04.12	SB	LT-52.63	1	-
		217+12.36	SB	LT-38.04	1	-
		216+31.46	SB	LT-54.23	1	-
		215+33.73	SB	LT-50.11	1	-
		214+32.79	SB	LT-44.78	1	-
		213+12.93	SB	LT-37.42	1	-
		211+72.24	SB	LT-29.57	1	-
		210+35.76	SB	LT-31.23	1	-
		208+94.44	SB	LT-40.97	1	-
		207+91.01	SB	LT-103.47	1	-
		207+23.30	SB	LT-36.84	1	-
		231+00.59	NB	RT-28.22	1	-
		229+86.02	NB	RT-27.93	1	-
		228+53.01	NB	RT-27.90	1	-
		227+12.78	NB	RT-27.87	1	-
		225+72.56	NB	RT-29.10	1	-
		224+69.11	NB	RT-28.25	1	-
		223+65.13	NB	RT-27.77	1	-
		222+47.01	NB	RT-29.04	1	-
		221+06.74	NB	RT-27.95	1	-
		219+67.67	NB	RT-28.58	1	-
		218+26.40	NB	RT-28.75	1	-
		218+10.86	NB	RT-44.80	1	-
		217+26.33	NB	RT-56.83	1	-

CONTINUED

STREET LIGHT REMOVALS (CONTINUED)

PROJECT NO.	CAT	STATION		OFFSET	204.0195* REMOVING CONCRETE BASES EACH	653.0905* REMOVING PULL BOXES EACH
5992-10-32 (CONTINUED)						
		217+10.81	NB	RT-30.57	1	-
		216+04.39	NB	RT-27.91	1	-
		214+94.81	NB	RT-27.92	1	-
		213+85.32	NB	RT-29.34	1	-
		212+46.46	NB	RT-26.03	1	-
		211+05.65	NB	RT-28.62	1	-
		209+70.90	NB	RT-39.28	1	-
		208+25.56	NB	RT-126.39	1	-
		208+14.48	NB	RT-32.41	1	-
		207+57.71	NB	RT-80.22	1	-
		206+74.51	NB	RT-36.36	1	-
		UNDISTRIBUTED			2	2
					48	2

***ADDITIONAL QUANTITIES LISTED ELSEWHERE**

STREET LIGHT REMOVAL ITEM

PROJECT NO.	CAT	LOCATION	SPV.0105.350 STREET LIGHT REMOVAL LS
5992-10-32			
	0012	N/A	1

ELECTRICAL PULLBOXES AND MANHOLES

						SPV.0060.350	SPV.0060.351	SPV.0060.352 ELECTRICAL PULLBOX	SPV.0060.353	653.0164
PROJECT NO.	CAT	STRUCTURE	STATION		OFFSET	TYPE I EACH	TYPE III EACH	TYPE V EACH	TYPE VII EACH	24X42-INCH EACH
5992-10-32										
	0013	HH1	231+93.92	SB	LT-29.47	1	-	-	-	-
		HH2	232+02.04	NB	RT-27.78	1	-	-	-	-
		HH3	228+87.72	NB	RT-26.75	1	-	-	-	-
		HH4	225+84.63	NB	RT-27.60	-	-	1	-	-
		HH5	225+38.42	NB	RT-51.83	-	-	1	-	-
		HH6	224+89.41	NB	RT-52.95	-	-	1	-	-
		HH7	224+62.00	NB	RT-27.56	-	-	1	-	-
		HH8	224+60.74	NB	LT-27.25	-	-	1	-	-
		HH9	224+29.56	NB	LT-27.19	-	1	-	-	-
		HH10	224+59.81	SB	LT-26.81	-	-	1	-	-
		HH11	224+89.13	SB	LT-58.49	-	-	1	-	-
		HH12	225+19.55	SB	LT-59.19	-	-	1	-	-
		HH13	225+51.44	SB	LT-59.92	-	-	1	-	-
		HH14	225+82.30	SB	LT-36.06	-	-	1	-	-
		HH15	225+83.62	NB	LT-16.62	-	-	1	-	-
		HH16	226+09.85	NB	LT-15.71		1	-	-	-
		HH17	223+63.02	NB	RT-26.97	1	-	-	-	-
		HH18	218+44.25	NB	RT-27.66	-	-	1	-	-
		HH19	218+08.46	NB	RT-49.83	1	-	-	-	-
		HH20	217+63.74	NB	RT-50.85	-	-	1	-	-
		HH21	217+26.32	NB	RT-54.08	-	-	1	-	-
		HH22	216+85.88	NB	RT-27.77	-	-	1	-	-
		HH23	216+84.46	NB	LT-34.70	-	-	1	-	-
		HH24	216+83.36	SB	LT-32.49	-	-	1	-	-
		HH25	216+57.05	SB	LT-56.99	-	-	1	-	-
		HH26	217+19.91	SB	LT-53.69	-	-	1	-	-
		HH27	217+58.88	SB	LT-58.12	-	-	1	-	-
		HH28	217+60.23	SB	LT-97.81	-	1	-	-	-
		HH29	218+02.13	SB	LT-55.55	-	-	1	-	-
		HH30	218+41.87	SB	LT-26.65	-	-	1	-	-
		HH31	218+43.27	NB	LT-15.21	-	-	1	-	-
		HH32	218+63.19	NB	LT-15.27	-	1	-	-	-
		HH33	219+22.45	SB	LT-26.70	-	1	-	-	-
		HH34	217+64.89	NB	RT-100.81	-	1	-	-	-
		HH35	217+68.27	NB	RT-165.29	-	1	-	-	-
		HH36	215+14.57	NB	RT-27.31	-	1	-	-	-
		HH37	212+81.21	NB	RT-26.98	1	-	-	-	-
		HH38	208+87.08	SB	LT-42.12	1	-	-	-	-
		HH39	208+70.06	NB	RT-55.94	-	-	-	1	-
		HH40	298+31.98	BP	LT-14.18	1	-	-	-	-
		HH41	300+38.22	BP	LT-12.62	1	-	-	-	-
		HH42	303+35.53	BP	LT-6.62	1	-	-	-	-
		HH43	306+77.97	BP	LT-6.72	1	-	-	-	-
		HH44	310+71.18	BP	LT-6.69	1	-	-	-	-
		HH45	313+94.68	BP	RT-15.00	1	-	-	-	-
		HH46	301+61.81	BP	LT-8.90	1	-	-	-	-
		HH47	228+41.20	NB	LT-27.46	-	1	-	-	-
		HH48	222+47.75	NB	LT-28.50	-	1	-	-	-

(CONTINUED ON NEXT SHEET)

3

ELECTRICAL PULLBOXES AND MANHOLES (CONTINUED)

						SPV.0060.350	SPV.0060.351	SPV.0060.352	SPV.0060.353	653.0164
						ELECTRICAL PULLBOX				
						TYPE I	TYPE III	TYPE V	TYPE VII	24X42-INCH
PROJECT NO.	CAT	STRUCTURE	STATION		OFFSET	EACH	EACH	EACH	EACH	EACH
5992-10-32										
	0013	MH1	208+15.67	SB	LT-29.64	-	-	-	-	1
		MH2	207+99.42	SB	LT-35.45	-	-	-	-	1
		MH3	208+22.91	NB	LT-26.39	-	-	-	-	1
		MH4	208+16.93	NB	RT-44.84	-	-	-	-	1
		MH5	208+61.11	NB	RT-55.43	-	-	-	-	1
		MH6	208+53.64	NB	RT-132.24	-	-	-	-	1
		MH7	207+55.93	SB	LT-52.19	-	-	-	-	1
		MH8	207+28.49	SB	LT-34.30	-	-	-	-	1
		MH9	207+07.53	SB	LT-29.78	-	-	-	-	1
		MH10	207+04.88	NB	LT-30.19	-	-	-	-	1
		MH11	207+64.85	NB	RT-38.70	-	-	-	-	1
		MH12	207+51.75	NB	RT-44.90	-	-	-	-	1
		MH13	207+06.12	NB	RT-40.47	-	-	-	-	1
		MH14	196+73.73	WBF	RT-35.44	-	-	-	-	1
		MH15	197+27.25	WBF	RT-32.55	-	-	-	-	1
		MH16	210+11.23	NB	LT-32.42	-	-	-	-	1
		MH17	208+00.59	NB	RT-82.89	-	-	-	-	1
	UNDISTRIBUTED					1	2	1	4	1
		PROJECT 5992-10-32 TOTALS				15	12	24	5	18
		OVERALL PROJECT TOTALS				**15**	**12**	**24**	**5**	**18**

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

3

LIGHTING CONTROL

PROJECT NO.	CAT	STRUCTURE	STATION	OFFSET	SPV.0060.358 CONCRETE BASES TYPE M EACH	SPV.0060.380 LIGHTING CONTROL CABINET EACH	656.0200* ELECTRICAL SERVICE METER LS	COMMENTS
5992-10-32								
	0012	SLC1	225+39.58 NB	RT-65.30	1	1	-	GAMMON PL
		SLC2	209+21.85 NB	RT-31.02	1	1	1	WT PATH
		PROJECT 5992-10-32 TOTALS			2	2	1	
		OVERALL PROJECT TOTALS			**2**	**2**	**1**	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

TEMPORARY LIGHTING

PROJECT NO.	CAT	LOCATION	SPV.0105.351 TEMPORARY LIGHTING LS
5992-10-32			
	0012	N/A	1

3

OPTICAL SIGNAL PREEMPT

PROJECT NO.	CAT	LOCATION	SPV.0105.407 OPTICAL SIGNAL PREEMPT LS
5992-10-32			
	0013	N/A	1

INSTALL DETECTORS AT LOCATIONS SHOWN IN TRAFFIC SIGNAL TABLE

TRAFFIC CONTROL

PROJECT NO.	CAT	STRUCTURE	STATION	OFFSET	SPV.0060.359 CONCRETE BASES TYPE P EACH	SPV.0060.378 TRAFFIC SIGNAL CONTROL CABINET EACH	SPV.0060.407 TRAFFIC SIGNAL CONTROLLER EACH	656.0200* ELECTRICAL SERVICE METER PEDESTAL EACH	658.5069 SIGNAL MOUNTING HARDWARE LS	SPV.0060.400 MALFUNCTION MANAGEMENT UNIT EACH	SPV.0060.401 TRAFFIC SIGNAL ETHERNET SWITCH EACH	COMMENTS
5992-10-32												
	0013	TSC1	225+39.46 NB	RT-60.82	1	1	1	1	1	1	1	GAMMON PL
		TSC2	218+14.39 NB	RT-64.03	1	1	1	1	1	1	1	ODANA RD
		EXC	208+74.39 NB	RT-86.10	-	-	-	-	1	-	-	WB RAMP
		PROJECT 5992-10-32 TOTALS			2	2	2	2	3	2	2	
		OVERALL PROJECT TOTALS			**2**	**2**	**2**	**2**	**3**	**2**	**2**	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

TEMPORARY TRAFFIC SIGNALS

PROJECT NO.	CAT	LOCATION	SPV.0105.400 TEMPORARY VEHICLE DETECTION LS	SPV.0105.401 TEMPORARY VEHICLE DETECTION LS	SPV.0105.402 TEMPORARY VEHICLE DETECTION LS	SPV.0105.403 TEMPORARY TRAFFIC SIGNALS LS	SPV.0105.404 TEMPORARY TRAFFIC SIGNALS LS	SPV.0105.405 TEMPORARY TRAFFIC SIGNALS LS
5992-10-32								
	0013	GAMMON RD & GAMMON PL	1	-	-	1	-	-
		GAMMON RD & ODANA RD	-	1	-	-	1	-
		GAMMON RD & WB BELTINE RAMP	-	-	1	-	-	1
PROJECT 5992-10-32 TOTALS			1	1	1	1	1	1
OVERALL PROJECT TOTALS			**1**	**1**	**1**	**1**	**1**	**1**

STREET LIGHTING

PROJECT NO.	CAT	STRUCTURE	STATION		OFFSET	SPV.0060.355 CONCRETE BASES TYPE LB-2 EACH	SPV.0060.356* CONCRETE BASES TYPE LB-3 EACH	657.0255* BASE BREAKAWAY 11.5" BOLT CIR EACH	SPV.0060.371* POLES 11 GAUGE 30-FT SINGLE SIMPLEX EACH	SPV.0060.373 POLES 11 GAUGE 30-FT BLACK TWIN SIMPLEX EACH	SPV.0060.372 POLES 11 GAUGE 20-FT BLACK SINGLE FIXTURE EACH	SPV.0060.368 POLES 11 GAUGE 20-FT BLACK DOUBLE FIXTURE EACH	657.0810 LUMINAIRE ARM 10-FT EACH	659.1115 LED LUMINAIRE AND MOUNTING BRACKET TYPE A EACH	659.1120 LED LUMINAIRE AND MOUNTING BRACKET TYPE B EACH	SPV.0060.374 LED LUMINAIRE AND MOUNTING BRACKET PATH EACH	SPV.0060.404 LED LUMINAIRE AND MOUNTING BRACKET VISION 12 80W EACH	SPV.0060.405 LED LUMINAIRE AND MOUNTING BRACKET VISION 12 160W EACH	SPV.0090.352 ELECTRICAL WIRE 14-3 GROUNDED LF	NOTES
5992-10-32																					
	0012	4840	230+98.32	NB	RT-28.25	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		4839	230+55.59	SB	LT-28.29	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		4838	229+86.25	NB	RT-28.54	-	-	-	-	-	-	-	-	1	-	-	-	-	36	SIGN
		4837	229+35.90	SB	LT-30.05	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		4836	228+53.06	NB	RT-29.03	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		4835	227+88.32	SB	LT-37.50	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		4834	227+12.81	NB	RT-29.02	-	-	-	-	-	-	-	-	1	-	-	-	-	36	SIGN
		4833	226+81.46	SB	LT-37.50	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		4832	225+76.06	SB	LT-37.97	-	-	-	-	-	-	-	1	1	-	-	-	-	36	TSG8
		4831	225+80.83	NB	RT-30.16	-	1	1	1	-	-	-	1		1	-	-	-	36	
		4830	225+54.00	SB	LT-65.51	-	-	-	-	-	-	-	1	1	-	-	-	-	36	TSG15
		4829	224+69.82	NB	RT-29.63	-	-	-	-	-	-	-	1	1	-	-	-	-	36	TSG14
		4828	224+60.75	SB	LT-35.18	-	1	1	1	-	-	-	1		1	-	-	-	36	
		4827	223+65.15	NB	RT-29.00	-	-	-	-	-	-	-	-	1	-	-	-	-	36	SIGN
		4826	223+53.60	SB	LT-31.04	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		4825	222+47.01	NB	RT-29.04	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		4824	221+83.66	SB	LT-29.51	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		4823	221+06.74	NB	RT-27.85	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		4822	220+43.82	SB	LT-29.41	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		4821	219+64.10	NB	RT-53.59	-	-	-	-	-	-	-	-	1	-	-	-	-	36	SIGN
		4820	219+30.65	SB	LT-29.39	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		4819	218+27.86	SB	LT-31.19	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		4818	218+04.00	SB	LT-46.28	-	-	-	-	-	-	-	1	1	-	-	-	-	36	TSO4
		4817	218+34.52	NB	RT-29.86	-	1	1	1	-	-	-	1		1	-	-	-	36	
		4816	218+12.04	NB	RT-44.89	-	-	-	-	-	-	-	1	1	-	-	-	-	36	TSO9
		4815	216+95.95	SB	LT-32.70	-	1	1	-	1	-	-	2	2	-	-	-	-	36	TWIN ARMS
		4814	217+24.68	NB	RT-50.44	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		4813	217+03.12	NB	RT-30.48	-	-	-	-	-	-	-	1	1	-	-	-	-	36	TSO12
		4812	216+33.37	SB	LT-50.46	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		4811	216+04.52	NB	RT-28.99	-	-	-	-	-	-	-	-	1	-	-	-	-	36	SIGN
		4810	215+33.78	SB	LT-44.64	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		4809	215+94.95	NB	RT-28.98	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		4808	214+32.81	SB	LT-39.89	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		4807	213+85.32	NB	RT-29.34	-	-	-	-	-	-	-	-	1	-	-	-	-	36	SIGN
		4806	213+07.95	SB	LT-42.26	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		4805	212+47.03	NB	RT-28.44	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		4804	211+72.34	SB	LT-28.26	-	-	-	-	-	-	-	-	1	-	-	-	-	36	SIGN
		4803	211+05.52	NB	RT-29.21	-	-	-	-	-	-	-	-	1	-	-	-	-	36	SIGN
		4802	210+35.76	SB	LT-31.36	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		4801	209+70.89	NB	RT-39.28	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		4800	208+94.83	SB	LT-42.64	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		4794	208+17.64	NB	RT-32.22	-	-	-	-	-	-	-	1	1	-	-	-	-	36	TSB4
		4793	207+91.01	SB	LT-103.47	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		4792	207+15.92	SB	LT-29.60	-	-	-	-	-	-	-	1	1	-	-	-	-	36	TSB8
		4791	206+47.81	NB	RT-36.63	-	1	1	1	-	-	-	1	-	1	-	-	-	36	
		PROJECT 5992-10-32 TOTALS				0	29	29	28	1	0	0	38	42	4	0	0	0	1620	

***ADDITIONAL QUANTITIES LISTED ELSEWHERE**
**STRUCTURE BASE AND POLE ALSO ON TRAFFIC SIGNAL TABLE
*** BASE, POLE AND 10-FT LUMINAIRE ARM INCLUDED WITH SIGN STRUCTURES

3

STREET LIGHTING (CONTINUED)

PROJECT NO.	CAT	STRUCTURE	STATION		OFFSET	SPV.0060.355 CONCRETE BASES TYPE LB-2 EACH	SPV.0060.356* CONCRETE BASES TYPE LB-3 EACH	657.0255* BASE BREAKAWAY 11.5" BOLT CIR EACH	SPV.0060.371* POLES 11 GAUGE 30-FT SINGLE SIMPLEX EACH	SPV.0060.373 POLES 11 GAUGE 30-FT BLACK TWIN SIMPLEX EACH	SPV.0060.372 POLES 11 GAUGE 20-FT BLACK SINGLE FIXTURE EACH	SPV.0060.368 POLES 11 GAUGE 20-FT BLACK DOUBLE FIXTURE EACH	657.0810 LUMINAIRE ARM 10-FT EACH	659.1115 LED LUMINAIRE AND MOUNTING BRACKET TYPE A EACH	659.1120 LED LUMINAIRE AND MOUNTING BRACKET TYPE B EACH	SPV.0060.374 LED LUMINAIRE AND MOUNTING BRACKET PATH EACH	SPV.0060.404 LED LUMINAIRE AND MOUNTING BRACKET VISION 12 80W EACH	SPV.0060.405 LED LUMINAIRE AND MOUNTING BRACKET VISION 12 160W EACH	SPV.0090.352 ELECTRICAL WIRE 14-3 UF GROUND LF	NOTES
5992-10-31																					
	0012	SSL1	196+16.88	WBF	RT-45.63	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		SSL2	196+39.99	WBF	LT-32.55	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		U1	295+29.46	BP	RT-9.92	-	-	-	-	-	-	-	-	-	-	-	-	1	80	
		U2	295+69.48	BP	LT-10.00	-	-	-	-	-	-	-	-	-	-	-	-	1	80	
		U3	296+09.48	BP	RT-9.92	-	-	-	-	-	-	-	-	-	-	-	-	1	80	
		U4	296+49.48	BP	LT-10.00	-	-	-	-	-	-	-	-	-	-	-	-	1	80	
		U5	296+89.48	BP	RT-9.92	-	-	-	-	-	-	-	-	-	-	-	-	1	80	
		U6	297+29.48	BP	LT-10.00	-	-	-	-	-	-	-	-	-	-	-	-	1	80	
		U7	297+69.48	BP	RT-9.92	-	-	-	-	-	-	-	-	-	-	-	-	1	80	
		U8	298+09.48	BP	LT-10.00	-	-	-	-	-	-	-	-	-	-	-	-	1	80	
		P1	294+99.17	BP	LT-15.46	1	-	-	-	-	1	-	-	-	-	1	-	-	26	
		P2	299+51.64	BP	LT-13.87	1	-	-	-	-	1	-	-	-	-	1	-	-	26	
		P3	301+36.76	BP	LT-13.09	1	-	-	-	-	-	1	-	-	-	2	-	-	26	DOUBLE FIXTURES
		P4	303+21.36	BP	LT-9.05	1	-	-	-	-	1	-	-	-	-	1	-	-	26	
		P5	305+00.08	BP	LT-9.03	1	-	-	-	-	1	-	-	-	-	1	-	-	26	
		P6	306+72.69	BP	LT-9.06	1	-	-	-	-	1	-	-	-	-	1	-	-	26	
		P7	308+50.02	BP	LT-9.40	1	-	-	-	-	1	-	-	-	-	1	-	-	26	
		P8	310+30.03	BP	LT-9.15	1	-	-	-	-	1	-	-	-	-	1	-	-	26	
		P9	312+10.95	BP	LT-9.02	1	-	-	-	-	1	-	-	-	-	1	-	-	26	
		P10	313+99.74	BP	RT-12.51	1	-	-	-	-	1	-	-	-	-	1	-	-	26	
		P11	312+64.67	BP	LT-25.67	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		P12	300+35.65	PB	LT-69.60	-	1	1	1	-	-	-	1	1	-	-	-	-	36	
		STRUCK UNDERPASS LED REPLACEMENTS				-	-	-	-		-	-		-	-	-	14	-	600	
		UNDISTRIBUTED				1	1	1	1		1									
		PROJECT 5992-10-31 TOTALS				11	5	5	5	0	10	1	0	4	0	4	0	11	14	8	1644	
		OVERALL PROJECT TOTALS				**11**	**34**	**34**	**33**	**1**	**10**	**1**	**0**	**42**	**0**	**46**	**4**	**11**	**14**	**8**	**3264**	

***ADDITIONAL QUANTITIES LISTED ELSEWHERE**

**STRUCTURE BASE AND POLE ALSO ON TRAFFIC SIGNAL TABLE

TRAFFIC SIGNALS

PROJECT NO	CAT	STRUCTURE	STATION		OFFSET	SPV.0060.356* CONCRETE BASES TYPE LB-3 EACH	SPV.0060.357 CONCRETE BASES TYPE LB-8 EACH	SPV.0060.354 CONCRETE BASES G BASE EACH	SPV.0060.360 CONCRETE BASES Offset Each	654.0110 CONCRETE BASES TYPE 10 EACH	654.0113 CONCRETE BASES TYPE 13 EACH	657.0255* BASES 11.5" BOLT CIR EACH	657.0100 BASES PEDESTAL EACH	SPV.0060.371* 30-FT POLES 11 GAUGE EACH	SPV.0060.370 30-FT POLES 7 GAUGE EACH	SPV.0060.369 20FT 7 GAUGE EACH	657.0420 13 FT ALUMINUM EACH	657.0345 TYPE 9 EACH	657.0355 TYPE 12 EACH	FOR
5992-10-32																				
	0013	TSB1	207+94.89	SB	LT-39.20	-	-	1	-	-	-	-	1	-	-	-	1	-	-	WB RAMP / W LEG
		TSB2	208+00.29	SB	LT-30.00	-	-	1	-	-	-	-	1	-	-	-	1	-	-	SB GAMMON RD
		TSB3	208+19.56	NB	LT-29.55	-	1	-	-	-	-	1	-	-	-	1	-	-	-	NB/SB GAMMON RD
		TSB4	208+17.64	NB	RT-32.22	-	1	-	-	-	-	1	-	-	1	-	-	-	-	NB GAMMON RD / E LEG
		TSB5	195+74.07	WBF	RT-11.76	-	-	1	-	-	-	-	1	-	-	-	1	-	-	WB RAMP
		TSB6	195+49.40	WBF	LT-33.84	-	-	1	-	-	-	-	1	-	-	-	1	-	-	WB RAMP / E LEG
		TSB7	207+53.61	SB	LT-46.38	-	-	1	-	-	-	-	1	-	-	-	1	-	-	WB RAMP / W LEG
		TSB8	207+15.92	SB	LT-29.60	-	1	-	-	-	-	1	-	-	-	1	-	-	-	SB GAMMON RD
		TSB9	207+09.27	NB	LT-30.36	-	1	-	-	-	-	1	-	-	-	1	-	-	-	NB/SB GAMMON RD
		TSB10	207+61.11	NB	RT-36.07	-	-	1	-	-	-	-	1	-	-	-	1	-	-	NB GAMMON RD / E LEG
		TSB11	208+80.15	NB	LT-23.25	-	-	1	-	-	-	-	1	-	-	-	1	-	-	WB RAMP
		TSB12	208+94.47	NB	LT-23.62	-	-	1	-	-	-	-	1	-	-	-	1	-	-	WB RAMP
		TSG1	224+67.56	SB	LT-29.81	-	-	-	-	1	-	-	-	-	-	-	-	1	-	SB GAMMON RD
		TSG2	224+69.99	SB	LT-37.07	-	-	1	-	-	-	-	1	-	-	-	1	-	-	S LEG
		TSG3	224+81.20	SB	LT-50.34	-	-	1	-	-	-	-	1	-	-	-	1	-	-	W LEG
		TSG4	224+86.93	SB	LT-55.00	-	-	1	-	-	-	-	1	-	-	-	1	-	-	EB/WB GAMMON PL
		TSG5	225+19.94	SB	LT-50.87	-	1		-	-	-	1	-	-	-	1	-	-	-	EB/WB GAMMON PL
		TSG6	225+66.78	SB	LT-51.73	-	-	1	-	-	-	-	1		-	-	1	-	-	W LEG
	**	TSG7	225+76.06	SB	LT-37.97	1	-	-	-	-	-	1	-	1	-	-	-	-	-	SB GAMMON RD / N LEG
		TSG8	225+75.31	NB	LT-16.20	-	1	-	-	-	-	1	-	-	-	1	-	-	-	NB/SB GAMMON RD / N LEG
		TSG9	225+75.14	NB	RT-30.02	-	-	-	-	1	-	-	-	-	-	-	-	1	-	NB GAMMON / N LEG
		TSG10	225+78.27	NB	RT-39.40	-	-	1	-	-	-	-	1	-	-	-	1	-	-	E LEG
		TSG11	225+42.43	NB	RT-43.76	-	-	1	-	-	-	-	1	-	-	-	1	-	-	EB/WB GAMMON PL
		TSG12	224+82.97	NB	RT-37.98	-	1	-	-	-	-	1	-	-	-	1	-	-	-	EB GAMMON PL / E LEG
	**	TSG13	224+69.82	NB	RT-29.63	1	-	-	-	-	-	1	-	1	-	-	-	-	-	NB/SB GAMMON RD / S LEG
		TSG14	224+68.52	NB	LT-26.92	-	1	-	-	-	-	1	-	-	-	1	-	-	-	NB/SB GAMMON RD / S LEG
	**	TSG15	225+54.00	SB	LT-65.51	1	-	-	-	-	-	1	-	1	-	-	-	-	-	WB GAMMON PL
		TSO1	217+03.52	SB	LT-32.58	-	-	-	-	-	1	-	-	-	-	-	-	-	1	SB GAMMON RD / S LEG
		TSO2	217+14.51	SB	LT-45.42	-	-	1	-	-	-	-	1	-	-	-	1	-	-	EB ODANA / W LEG
		TSO3	217+60.85	SB	LT-61.53	-	-	-	-	-	1	-	-	-	-	-	-	-	1	EB/WB ODANA
	**	TSO4	218+03.98	SB	LT-46.28	1	-	-	-	-	-	1	-	1	-	-	-	-	-	WB ODANA / W LEG
	**	TSO5	218+27.86	SB	LT-31.19	1	-	-	-	-	-	1	-	1	-	-	-	-	-	SB GAMMON RD / N LEG
		TSO6	218+35.33	NB	LT-15.56	-	1	-	-	-	-	1	-	-	-	1	-	-	-	NB/SB GAMMON RD
		TSO7	218+29.03	NB	RT-29.83	-	-	-	-	-	1	-	-	-	-	-	-	-	1	NB GAMMON RD
		TSO8	218+18.49	NB	RT-39.63	-	-	1	-	-	-	-	1	-	-	-	1	-	-	N LEG / E LEG
	**	TSO9	218+12.04	NB	RT-44.89	1	-	-	-	-	-	1	-	1	-	-	-	-	-	WB ODANA
		TSO10	217+63.21	NB	RT-56.30	-	-	-	-	1	-	-	-	-	-	-	-	1	-	EB/WB ODANA
		TSO11	217+16.40	NB	RT-38.99	-	-	1	-	-	-	-	1	-	-	-	1	-	-	E LEG
	**	TSO12	217+03.33	NB	RT-30.48	1	-	-	-	-	-	1	-	1	-	-	-	-	-	NB GAMMON RD / S LEG
		TSO13	216+92.03	NB	LT-34.71	-	1	-	-	-	-	1	-	-	-	1	-	-	-	NB/SN GAMMON RD
		UNDISTRIBUTED				-	-	-	2	-	-	-	-	-	-	-	-	-	-	
		PROJECT 5992-10-32 TOTALS				7	10	17	2	3	3	0 17	17	0 7	1	9	17	3	3	
		OVERALL PROJECT TOTALS				**7**	**10**	**17**	**2**	**3**	**3**	**17**	**17**	**7**	**1**	**9**	**17**	**3**	**3**	

***ADDITIONAL QUANTITIES LISTED ELSEWHERE**

**STRUCTURE ALSO SHOWN IN STREET LIGHTING TABLE

3

TRAFFIC SIGNALS

						SPV.0060.377	SPV.0060.376	SPV.0060.375	657.0530	657.0535	658.0173	658.0174	658.0416	658.0500	SPV.0060.402	SPV.0060.403			
						ARMS					SIGNAL HEADS				BACKPLATES				
PROJECT NO.	CAT	STRUCTURE	STATION		OFFSET	15' TBONE EACH	18' TBONE EACH	22' TBONE EACH	30' MONOTUBE EACH	35' MONOTUBE EACH	3 SECTION EACH	4 SECTION EACH	PED SIGNAL EACH	PED PUSH B EACH	3 SECTION EACH	4 SECTION EACH	OPTICAL SIGNAL PREEMPT	FOR	NOTES
5992-10-32																			
	0013	TSB1	207+94.89	SB	LT-39.20	-	-	-	-	-	1	-	1	-	1	-		WB RAMP / W LEG	
		TSB2	208+00.29	SB	LT-30.00	-	-	-	-	-	1	-	-	-	1	-		SB GAMMON RD	
		TSB3	208+19.56	NB	LT-29.55	-	-	1	-	-	3	-	-	-	3	-	X	NB/SB GAMMON RD	
		TSB4	208+17.64	NB	RT-32.22	-	-	1	-	-	1	-	2	-	1	-		NB GAMMON RD / E LEG	SL 4794
		TSB5	195+74.07	WBF	RT-11.76	-	-	-	-	-	1	-	-	-	1	-		WB RAMP	
		TSB6	195+49.40	WBF	LT-33.84	-	-	-	-	-	1	-	1	-	1	-		WB RAMP / E LEG	
		TSB7	207+53.61	SB	LT-46.38	-	-	-	-	-	1	-	1	-	1	-		WB RAMP / W LEG	
		TSB8	207+15.92	SB	LT-29.60	-	1	-	-	-	1	-	-	-	1	-	X	SB GAMMON RD	
		TSB9	207+09.27	NB	LT-30.36	-	1	-	-	-	2	-	-	-	2	-		NB/SB GAMMON RD	
		TSB10	207+61.11	NB	RT-36.07	-	-	-	-	-	1	-	1	-	1	-		NB GAMMON RD / E LEG	
		TSB11	208+80.15	NB	LT-23.25	-	-	-	-	-	1	-	-	-	1	-		WB RAMP	
		TSB12	208+94.47	NB	LT-23.62	-	-	-	-	-	1	-	-	-	1	-		WB RAMP	
		TSG1	224+67.56	SB	LT-29.81	-	-	-	1	-	2	-	-	-	2	-	X	SB GAMMON RD	
		TSG2	224+69.99	SB	LT-37.07	-	-	-	-	-	-	-	1	1	-	-		S LEG	
		TSG3	224+81.20	SB	LT-50.34	-	-	-	-	-	-	-	1	1	-	-		W LEG	
		TSG4	224+86.93	SB	LT-55.00	-	-	-	-	-	2	-	-	-	2	-		EB/WB GAMMON PL	
		TSG5	225+19.94	SB	LT-50.87	1	-	-	-	-	3	-	-	-	3	-		EB/WB GAMMON PL	
		TSG6	225+66.78	SB	LT-51.73	-	-	-	-	-	-	-	1	1	-	-		W LEG	
	**	TSG7	225+76.06	SB	LT-37.97	-	-	-	-	-	1	1	1	1	1	1		SB GAMMON RD / N LEG	SL 4832
		TSG8	225+75.31	NB	LT-16.20	1	-	-	-	-	1	2	2	2	1	2		NB/SB GAMMON RD / N LEG	
		TSG9	225+75.14	NB	RT-30.02	-	-	-	1	-	2	-	1	1	2	-	X	NB GAMMON / N LEG	
		TSG10	225+78.27	NB	RT-39.40	-	-	-	-	-	-	-	1	1	-	-		E LEG	
		TSG11	225+42.43	NB	RT-43.76	-	-	-	-	-	2	-	-	-	2	-		EB/WB GAMMON PL	
		TSG12	224+82.97	NB	RT-37.98	-	-	1	-	-	1	-	1	1	1	-		EB GAMMON PL / E LEG	
	**	TSG13	224+69.82	NB	RT-29.63	-	-	-	-	-	1	1	1	1	1	1		NB/SB GAMMON RD / S LEG	
		TSG14	224+68.52	NB	LT-26.92	1	-	-	-	-	1	2	2	2	1	2		NB/SB GAMMON RD / S LEG	
	**	TSG15	225+54.00	SB	LT-65.51	-	-	-	-	-	1	-	-	-	1	-		WB GAMMON PL	SL 4830
		TSO1	217+03.52	SB	LT-32.58	-	-	-	-	1	3	-	1	1	3	-	X	SB GAMMON RD / S LEG	
		TSO2	217+14.51	SB	LT-45.42	-	-	-	-	-	1	-	1	1	1	-		EB ODANA / W LEG	
		TSO3	217+60.85	SB	LT-61.53	-	-	-	-	1	4	-	-	-	4	-	X	EB/WB ODANA	
	**	TSO4	218+03.98	SB	LT-46.28	-	-	-	-	-	1	-	1	1	1	-		WB ODANA / W LEG	SL 4818
	**	TSO5	218+27.86	SB	LT-31.19	-	-	-	-	-	1	-	1	1	1	-		SB GAMMON RD / N LEG	SL 4819
		TSO6	218+35.33	NB	LT-15.56	1	-	-	-	-	3	-	-	-	3	-		NB/SB GAMMON RD	
		TSO7	218+29.03	NB	RT-29.83	-	-	-	-	1	3	-	-	-	3	-	X	NB GAMMON RD	
		TSO8	218+18.49	NB	RT-39.63	-	-	-	-	-	-	-	2	2	-	-		N LEG / E LEG	
	**	TSO9	218+12.04	NB	RT-44.89	-	-	-	-	-	1	-	-	-	1	-		WB ODANA	SL 4816
		TSO10	217+63.21	NB	RT-56.30	-	-	-	1	-	4	-	-	-	4	-		EB/WB ODANA	
		TSO11	217+16.40	NB	RT-38.99	-	-	-	-	-	-	-	1	1	-	-		E LEG	
	**	TSO12	217+03.33	NB	RT-30.48	-	-	-	-	-	1	-	1	1	1	-		NB GAMMON RD / S LEG	SL 4813
		TSO13	216+92.03	NB	LT-34.71	1	-	-	-	-	3	-	-	-	3	-		NB/SN GAMMON RD	
		UNDISTRIBUTED				-	-	-	-	-	-	-	-	-	-	-			
		PROJECT 5992-10-32 TOTALS				5	2	3	3	3	57	6	26	20	57	6			
		OVERALL PROJECT TOTALS				**5**	**2**	**3**	**3**	**3**	**57**	**6**	**26**	**20**	**57**	**6**			

***ADDITIONAL QUANTITIES LISTED ELSEWHERE**

**STRUCTURE ALSO SHOWN IN STREET LIGHTING TABLE

TRAFFIC SIGNAL CONDUIT RIGID NONMETALLIC

PROJECT NO.	CAT	FROM	TO	652.0235 SCHEDULE 40 3-INCH LF	652.0335 SCHEDULE 80 3-INCH LF	652.0615 SPECIAL SCHEDULE 80 3-INCH LF	678.0072 FIBER OPTIC CABLE OUTDOOR PLANT 72-CT LF	NOTES
5992-10-32								
	0013	HH2	HH3	315	-	-	325	COMM
		HH3	HH4	310	-	-	320	COMM
		HH4	HH5	60	-	-	70	COMM
		HH4	HH5	60	-	-	-	TS
		HH4	TSG9	10	-	-	-	TS
		HH5	TSG10	15	-	-	-	TS
		HH5	TSG11	10	-	-	-	TS
		HH5	TSC1	10	-	-	-	TS
		HH5	TSC1	10	-	-	20	COMM
		HH5	HH6	-	50	-	-	TS
		HH5	HH6	-	50	-	60	COMM
		HH6	TSG12	15	-	-	-	TS
		HH6	HH7	50	-	-	-	TS
		HH6	HH7	50	-	-	60	COMM
		HH7	TSG13	10	-	-	-	TS
		HH7	HH8	-	55	-	65	COMM
		HH7	HH8	-	55	-	-	TS
		HH8	HH9	30	-	-	-	TS
		HH9	HH48	185	-	-	-	TS
		HH8	TSG14	10	-	-	-	TS
		HH8	HH10	-	45	-	-	TS
		HH8	HH10	-	45	-	55	COMM
		HH10	TSG1	-	10	-	-	TS
		HH10	TSG2	-	15	-	-	TS
		HH10	HH11	50	-	-	-	TS
		HH10	HH11	50	-	-	60	COMM
		HH11	TSG3	10	-	-	-	TS
		HH11	TSG4	5	-	-	-	TS
		HH11	HH12	-	30	-	-	TS
		HH11	HH12	-	30	-	40	COMM
		HH12	TSG5	10	-	-	-	TS
		HH12	HH13	-	30	-	-	TS
		HH12	HH13	-	30	-	40	COMM
		HH13	TSG15	10	-	-	-	TS
		HH13	TSG6	15	-	-	-	TS
		HH13	HH14	45	-	-	-	TS
		HH13	HH14	45	-	-	55	COMM
		HH14	TSG7	-	-	-	-	TS
		HH14	HH15	-	65	-	-	TS
		HH14	HH15	-	65	-	75	COMM
		HH15	HH16	25	-	-	-	TS
		HH16	HH47	235	-	-	-	TS
		HH15	TSG8	10	-	-	-	TS
		HH15	HH4	-	45	-	-	TS
		HH15	HH4	-	45	-	55	COMM
		HH7	HH17	300	-	-	310	COMM
		HH17	HH18	320	-	-	330	COMM

(CONTINUED)

TRAFFIC SIGNAL CONDUIT RIGID NONMETALLIC (CONTINUED)

PROJECT NO.	CAT	FROM	TO	652.0235 SCHEDULE 40 3-INCH LF	652.0335 SCHEDULE 80 3-INCH LF	652.0615 SPECIAL SCHEDULE 80 3-INCH LF	678.0072 FIBER OPTIC CABLE OUTDOOR PLANT 72-CT LF	NOTES
5992-10-32 (CONTINUED)								
		HH18	HH19	50	-	-	60	COMM
		HH18	HH19	50	-	-	60	TS
		HH18	TSO7	20	-	-	30	TS
		HH19	TSO8	20	-	-	30	TS
		HH19	TSO9	10	-	-	20	TS
		HH19	TSC2	20	-	-	30	COMM
		HH19	TSC2	40	-	-	50	TS
		HH19	HH20	-	45	-	-	TS
		HH19	HH20	-	45	-	55	COMM
		HH20	HH34	50	-	-	-	TS
		HH34	HH35	65	-	-	-	TS
		HH20	TSO10	5	-	-	-	TS
		HH20	HH21	-	40	-	-	TS
		HH20	HH21	-	40	-	50	COMM
		HH21	TSO11	20	-	-	-	TS
		HH21	HH22	60	-	-	-	TS
		HH21	HH22	60	-	-	70	COMM
		HH22	TSO12	20	-	-	-	TS
		HH22	HH23	-	60	-	-	TS
		HH22	HH23	-	60	-	70	COMM
		HH23	TSO13	10	-	-	-	TS
		HH23	HH24	-	45	-	-	TS
		HH23	HH24	-	45	-	55	COMM
		HH24	HH25	-	35	-	-	TS
		HH24	TSO1	20	-	-	-	TS
		HH24	HH26	65	-	-	-	TS
		HH24	HH26	65	-	-	75	COMM
		HH26	TSO2	10	-	-	-	TS
		HH26	HH27	-	40	-	-	TS
		HH26	HH27	-	40	-	50	COMM
		HH27	HH28	40	-	-	-	TS
		HH27	TSO3	5	-	-	-	TS
		HH27	HH29	-	40	-	-	TS
		HH27	HH29	-	40	-	50	COMM
		HH29	TSO4	10	-	-	-	TS
		HH29	HH30	60	-	-	-	TS
		HH29	HH30	60	-	-	70	COMM
		HH30	HH33	80	-	-	-	TS
		HH30	TSO5	20	-	-	-	TS
		HH30	HH31	-	60	-	-	TS
		HH30	HH31	-	60	-	70	COMM
		HH31	HH32	20	-	-	-	TS
		HH31	TSO6	10	-	-	-	TS
		HH31	HH18	-	45	-	-	TS
		HH31	HH18	-	45	-	55	COMM

(CONTINUED ON NEXT SHEET)

TS: TRAFFIC SIGNAL
COMM: COMMUNICATIONS

TRAFFIC SIGNAL CONDUIT RIGID NONMETALLIC (CONTINUED)

PROJECT NO.	CAT	FROM	TO	652.0235 SCHEDULE 40 3-INCH LF	652.0335 SCHEDULE 80 3-INCH LF	652.0615 SPECIAL SCHEDULE 80 3-INCH LF	678.0072 FIBER OPTIC CABLE OUTDOOR PLANT 72-CT LF	NOTES
5992-10-32 (CONTINUED)								
		HH22	HH36	168	-	-	-	TS
		HH22	HH36	168	-	-	178	COMM
		HH36	HH37	235	-	-	245	COMM
		HH37	HH39	430	-	-	440	COMM
		HH39	MH5	15	-	-	25	COMM
		HH39	HH40	125	-	-	135	COMM
		HH40	HH41	215	-	-	225	COMM
		HH41	HH42	310	-	-	320	COMM
		HH42	HH43	350	-	-	360	COMM
		HH43	HH44	400	-	-	410	COMM
		HH44	HH45	320	20	-	350	COMM
		HH45	STUB	20	-	-	30	COMM
		MH1	MH2	20	-	-	-	TS
		MH1	MH2	20	-	-	-	TS
		MH2	MH9	-	100	-	-	TS
		MH2	MH9	-	100	-	-	TS
		MH2	TSB1	10	-	-	-	TS
		MH2	TSB2	10	-	-	-	TS
		MH2	MH7	-	50	-	-	TS
		MH7	TSB7	10	-	-	-	TS
		MH7	MH8	35	-	-	-	TS
		MH8	MH9	27	-	-	-	TS
		MH9	TSB8	15	-	-	-	TS
		MH9	MATCH EX	50	-	-	-	TS
		MH9	MH10	-	65	-	-	TS

(CONTINUED)

TRAFFIC SIGNAL CONDUIT RIGID NONMETALLIC (CONTINUED)

PROJECT NO.	CAT	FROM	TO	652.0235 SCHEDULE 40 3-INCH LF	652.0335 SCHEDULE 80 3-INCH LF	652.0615 SPECIAL SCHEDULE 80 3-INCH LF	678.0072 FIBER OPTIC CABLE OUTDOOR PLANT 72-CT LF	NOTES
5992-10-32 (CONTINUED)								
		MH9	MH10	-	65	-	-	TS
		MH10	TSB9	5	-	-	-	TS
		MH10	MH13	-	75	-	-	TS
		MH10	MH13	-	75	-	-	TS
		MH13	MH11	60	-	-	-	TS
		MH13	MH11	60	-	-	-	TS
		MH11	TSB10	5	-	-	-	TS
		MH11	MH4	-	55	-	-	TS
		MH11	MH4	-	55	-	-	TS
		MH4	TSB4	15	-	-	-	TS
		MH4	MH3	-	80	-	-	TS
		MH4	MH3	-	80	-	-	TS
		MH3	TSB3	5	-	-	-	TS
		MH3	MH1	-	65	-	-	TS
		MH3	MH1	-	65	-	-	TS
		MH5	EXC	35	-	-	-	TS
		EXC	MH6	55	-	-	-	TS
		EXC	MH6	55	-	-	-	TS
		MH5	TSB6	5	-	-	-	TS
		MH12	TSB11	-	10	-	-	TS
		MH12	TSB12	-	10	-	-	TS
		MH12	MH16	-	130	-	-	TS
		MH6	MH17	-	100	-	-	TS
		MH6	MH17	-	100	-	-	TS
		MH17	MH4	40	-	-	-	TS
		MH17	MH4	40	-	-	-	TS
		UNDISTRIBUTED		-	-	100	-	-
ID 5992-10-32 TOTALS				6,578	2,750	100	5,608	
OVERALL PROJECT TOTALS				**6,578**	**2,750**	**100**	**5,608**	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE
TS: TRAFFIC SIGNAL
COMM: COMMUNICATIONS

TRAFFIC SIGNAL WIRE

PROJECT NO.	CAT	FROM	TO BASE	TO HEAD	655.0230 5-14 AWG (LF)	655.0240 7-14 AWG (LF)	655.0250 9-14 AWG (LF)	655.0260 12-14 AWG (LF)	655.0615* 10 AWG (LF)	655.0700* LEAD-IN CABLE (LF)
5992-10-32										
	0013	**GAMMON PL**								
		TSC1	TSG14		-	-	-	185	-	-
				1	25	-	-	-	-	-
				2	25	-	-	-	-	-
				22	35	-	-	-	-	-
				G12	15	-	-	-	-	-
		TSC1	TSG1		-	235	-	-	-	-
				3	50	-	-	-	-	-
				4	45	-	-	-	-	-
		TSC1	TSG2		250	-	-	-	-	-
				G2	15	-	-	-	-	-
		TSC1	TSG3		290	-	-	-	-	-
				G3	15	-	-	-	-	-
		TSC1	TSG4		-	-	285	-	-	-
				5	15	-	-	-	-	-
				6	15	-	-	-	-	-
		TSC1	TSG5		-	-	-	325	-	-
				7	15	-	-	-	-	-
				8	15	-	-	-	-	-
				9	30	-	-	-	-	-
		TSC1	TSG15		255	-	-	-	-	-
				10	25	-	-	-	-	-
		TSC1	TSG6		275	-	-	-	-	-
				G4	15	-	-	-	-	-
		TSC1	TSG7		-	-	-	205	-	-
				11	25	-	-	-	-	-
				G5	20	-	-	-	-	-
				23	25	-	-	-	-	-
		TSC1	TSG8		-	-	-	135	-	-
				12	20	-	-	-	-	-
				13	20	-	-	-	-	-
				14	35	-	-	-	-	-
				G6	15	-	-	-	-	-
		TSC1	TSG9		-	-	-	85	-	-
				15	50	-	-	-	-	-
				16	45	-	-	-	-	-
				G8	20	-	-	-	-	-
		TSC1	TSG10		40	-	-	-	-	-
				G9	15	-	-	-	-	-
		TSC1	TSG11		-	-	35	-	-	-
				17	15	-	-	-	-	-
				18	15	-	-	-	-	-
		TSC1	TSG12		-	85	-	-	-	-
				19	45	-	-	-	-	-
				G10	15	-	-	-	-	-
		TSC1	TSG13		-	-	-	125	-	-
				20	25	-	-	-	-	-
				21	25	-	-	-	-	-
				G11	15	-	-	-	-	-
SYSTEM GROUND					-	-	-	-	650	-
SYSTEM NEUTRAL					-	-	-	-	650	-
DETECTOR LOOP LEAD-IN					-	-	-	-	-	800
		GAMMON PLACE TOTALS			**1910**	**320**	**320**	**1060**	**1300**	**800**

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

TRAFFIC SIGNAL WIRE (CONTINUED)

PROJECT NO.	CAT	FROM	TO BASE	TO HEAD	655.0230 5-14 AWG (LF)	655.0240 7-14 AWG (LF)	655.0250 9-14 AWG (LF)	655.0260 12-14 AWG (LF)	655.0615* 10 AWG (LF)	655.0700* LEAD-IN CABLE (LF)
5992-10-32										
	0013	**ODANA RD**								
		TSC2	TSO13		-	-	-	285	-	-
				1	35	-	-	-	-	-
				2	20	-	-	-	-	-
				25	20	-	-	-	-	-
		TSC2	TSO1		-	-	-	350	-	-
				3	60	-	-	-	-	-
				4	55	-	-	-	-	-
				5	50	-	-	-	-	-
				O1	20	-	-	-	-	-
		TSC2	TSO2		-	420	-	-	-	-
				6	15	-	-	-	-	-
				O2	15	-	-	-	-	-
		TSC2	TSO3		-	-	-	470	-	-
				7	20	-	-	-	-	-
				8	50	-	-	-	-	-
				9	55	-	-	-	-	-
				10	60	-	-	-	-	-
		TSC2	TSO4		-	290	-	-	-	-
				11	20	-	-	-	-	-
				O3	15	-	-	-	-	-
		TSC2	TSO5		-	225	-	-	-	-
				12	20	-	-	-	-	-
				O4	15	-	-	-	-	-
		TSC2	TSO6		-	-	-	150	-	-
				13	35	-	-	-	-	-
				14	20	-	-	-	-	-
				15	20	-	-	-	-	-
		TSC2	TSO7		-	-	-	95	-	-
				16	60	-	-	-	-	-
				17	55	-	-	-	-	-
				18	50	-	-	-	-	-
		TSC2	TSO8		-	40	-	-	-	-
				O5	15	-	-	-	-	-
				O6	15	-	-	-	-	-
		TSC2	TSO9		30	-	-	-	-	-
				19	15	-	-	-	-	-
		TSC2	TSO10		-	-	-	90	-	-
				20	20	-	-	-	-	-
				21	40	-	-	-	-	-
				22	45	-	-	-	-	-
				23	50	-	-	-	-	-
		TSC2	TSO11		140	-	-	-	-	-
				O7	15	-	-	-	-	-
		TSC2	TSO12		-	205	-	-	-	-
				24	20	-	-	-	-	-
				O8	15	-	-	-	-	-
SYSTEM GROUND					-	-	-	-	820	-
SYSTEM NEUTRAL					-	-	-	-	820	-
DETECTOR LOOP LEAD-IN					-	-	-	-	-	400
		ODANA ROAD TOTALS			**1205**	**1180**	**0**	**1440**	**1640**	**400**

(CONTINUED ON NEXT SHEET)

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

TRAFFIC SIGNAL WIRE (CONTINUED)

PROJECT NO.	CAT	FROM	TO BASE	TO HEAD	655.0230 5-14 AWG (LF)	655.0240 7-14 AWG (LF)	655.0250 9-14 AWG (LF)	655.0260 12-14 AWG (LF)	655.0615* 10 AWG (LF)	655.0700* LEAD-IN CABLE (LF)
5992-10-32										
	0013	**WB RAMP**								
		EXC	TSB1		-	400	-	-	-	-
				1	15	-	-	-	-	-
				B1	15	-	-	-	-	-
			TSB2		400	-	-	-	-	-
				2	15	-	-	-	-	-
			TSB3		-	-	-	310	-	-
				3	20	-	-	-	-	-
				4	20	-	-	-	-	-
				5	45	-	-	-	-	-
			TSB4		-	-	230	-	-	-
				6	45	-	-	-	-	-
				B4	15	-	-	-	-	-
				B5	15	-	-	-	-	-
			TSB5		225	-	-	-	-	-
				7	15	-	-	-	-	-
			TSB6		-	55	-	-	-	-
				8	15	-	-	-	-	-
				B6	15	-	-	-	-	-
			TSB7		-	580	-	-	-	-
				9	15	-	-	-	-	-
				B2	15	-	-	-	-	-
			TSB8		510	-	-	-	-	-
				10	40	-	-	-	-	-
			TSB9		-	-	420	-	-	-
				11	40	-	-	-	-	-
				12	20	-	-	-	-	-
			TSB10		-	270	-	-	-	-
				13	15	-	-	-	-	-
				B3	15	-	-	-	-	-
			TSB11		145	-	-	-	-	-
				14	15	-	-	-	-	-
			TSB12		145	-	-	-	-	-
				15	15	-	-	-	-	-
			SYSTEM GROUND		-	-	-	-	820	-
			SYSTEM NEUTRAL		-	-	-	-	820	-
			DETECTOR LOOP LEAD-IN		-	-	-	-	-	400
			UNDISTRIBUTED		100	100	100	100	100	100
			WB RAMP TOTALS		**1965**	**1405**	**750**	**410**	**1740**	**500**
			PROJECT ID 5992-10-32 TOTALS		**5080**	**2905**	**1070**	**2910**	**4680**	**1700**

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

3

TRAFFIC DETECTOR LOOPS

PROJECT NO.	CAT	LOOP NO.	STATION		OFFSET	SIZE	NO. TURNS	652.0800 CONDUIT LOOP DETECTOR LF	655.0800 LOOP DETECTOR WIRE LF
5992-10-32									
GAMMON PL	0013	L-G1	228+43.59	SB	LT-16.87	6 X 6	3	60	145
		L-G2	228+43.85	SB	LT-5.82	6 X 6	3	50	125
		L-G3	228+44.11	SB	RT-5.58	6 X 6	3	35	95
		L-G4	225+89.44	SB	RT-16.67	6 X 6	3	45	110
		L-G5	226+14.04	SB	RT-16.36	20 X 6	3	65	180
		L-G6	225+89.79	NB	LT-6.43	6 X 6	3	35	95
		L-G7	225+90.08	NB	RT-5.96	6 X 6	3	45	110
		L-G8	225+90.35	NB	RT-17.89	6 X 6	3	55	135
		L-G9	225+09.89	SB	LT-78.69	14 X 6	3	55	150
		L-G10	224+97.99	SB	LT-69.97	14 X 6	3	55	145
		L-G11	225+09.37	SB	LT-59.32	6 X 6	3	35	95
		L-G12	224+54.00	SB	LT-16.91	6 X 6	3	60	145
		L-G13	224+54.33	SB	LT-5.44	6 X 6	3	50	125
		L-G14	224+54.64	SB	RT-5.35	6 X 6	3	35	95
		L-G15	224+56.05	NB	LT-16.50	6 X 6	3	50	125
		L-G16	224+28.03	NB	LT-16.13	20 X 6	3	65	180
		L-G17	225+17.38	NB	RT-47.16	6 X 6	3	45	110
		L-G18	225+17.67	NB	RT-68.35	14 X 6	3	70	180
		L-G19	225+29.26	NB	RT-53.61	14 X 6	3	55	145
		L-G20	222+39.71	NB	LT-16.69	6 X 6	3	35	95
		L-G21	222+39.71	NB	LT-5.13	6 X 6	3	45	110
		L-G22	222+39.71	NB	RT-5.56	6 X 6	3	55	135
		L-G23	222+39.71	NB	RT-17.31	6 X 6	3	65	155
ODANA RD		L-O1	219+18.64	SB	LT-16.04	6 X 6	3	35	95
		L-O2	219+18.86	SB	LT-6.32	6 X 6	3	45	110
		L-O3	219+19.12	SB	RT-4.88	6 X 6	3	55	135
		L-O4	218+49.30	SB	RT-16.74	6 X 6	3	45	110
		L-O5	218+49.52	SB	RT-26.16	6 X 6	3	40	105
		L-O6	218+71.10	SB	RT-15.94	20 X 6	3	75	200
		L-O7	218+71.32	SB	RT-25.60	20 X 6	3	65	180
		L-O8	218+50.35	NB	LT-5.17	6 X 6	3	35	95
		L-O9	218+50.62	NB	RT-6.42	6 X 6	3	45	110
		L-O10	218+50.88	NB	RT-17.90	6 X 6	3	55	135

(CONTINUED)

TRAFFIC DETECTOR LOOPS (CONTINUED)

PROJECT NO.	CAT	LOOP NO.	STATION		OFFSET	SIZE	NO. TURNS	652.0800 CONDUIT LOOP DETECTOR LF	655.0800* LOOP DETECTOR WIRE LF
5992-10-32 (CONTINUED)									
		L-O11	217+34.30	SB	LT-107.13	20 X 6	3	70	190
		L-O12	217+50.18	SB	LT-86.90	20 X 6	3	65	180
		L-O13	217+50.54	SB	LT-58.90	6 X 6	3	35	95
		L-O14	216+75.86	SB	LT-15.88	6 X 6	3	55	135
		L-O15	216+76.31	SB	LT-5.03	6 X 6	3	45	110
		L-O16	216+76.61	SB	RT-5.94	6 X 6	3	35	95
		L-O17	216+95.44	NB	LT-25.49	6 X 6	3	35	95
		L-O18	216+95.68	NB	LT-15.27	6 X 6	3	45	110
		L-O19	216+70.62	NB	LT-25.59	20 X 6	3	65	180
		L-O20	216+70.85	NB	LT-15.36	20 X 6	3	70	190
		L-O21	217+73.86	NB	RT-59.15	6 X 6	3	35	95
		L-O22	217+85.88	NB	RT-58.88	6 X 6	3	45	110
		L-O23	217+75.22	NB	RT-90.47	20 X 6	3	65	180
		L-O24	217+88.04	NB	RT-90.16	20 X 6	3	70	190
		L-O25	217+84.03	NB	RT-158.10	20 X 6	3	65	180
		L-O26	215+08.09	NB	LT-4.91	6 X 6	3	55	135
		L-O27	215+08.35	NB	RT-6.49	6 X 6	3	45	110
		L-O28	215+08.58	NB	RT-16.60	6 X 6	3	35	95
WB RAMP		L-B1	207+72.92	NB	RT-150.20	14 X 6	3	60	270
		L-B2	207+57.63	NB	RT-196.77	20 X 6	3	65	290
		L-B3	210+15.21	SB	-	20 X 6	3	70	190
		L-B4	210+15.36	SB	RT-16.86	6 X 6	3	35	95
		L-B5	208+01.27	SB	LT-70.13	6 X 6	3	55	135
		PROJECT ID 5992-10-32 TOTALS						2880	7715

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

OFFSET TO CENTER OF LOOP

3

TRAFFIC SIGNAL REMOVALS

PROJECT NO.	CAT	STATION		OFFSET	204.0195* REMOVING CONCRETE BASES EACH	653.0905* REMOVING PULL BOXES EACH
5992-10-32						
	0013	225+55.70	SB	LT-29.77	1	
		225+44.54	SB	LT-38.57		1
		224+87.78	SB	LT-51.51	1	
		224+64.56	SB	RT-17.77	1	
		224+68.61	SB	RT-16.28		1
		224+87.83	NB	RT-43.05	1	
		225+41.09	NB	RT-44.60	1	
		225+38.78	NB	RT-59.92	1	
		225+63.38	NB	RT-28.81		1
		225+61.52	NB	LT-16.74		1
		225+68.76	NB	LT-16.13	1	
		218+03.16	SB	LT-57.46		1
		217+60.85	SB	LT-61.53	1	
		217+17.16	SB	LT-53.65	1	
		217+13.54	SB	LT-50.10		1
		217+00.08	SB	RT-8.48	1	
		216+46.22	SB	RT-13.90		1
		217+63.44	NB	RT-63.17	1	
		218+09.37	NB	RT-61.10		1
		218+14.08	NB	RT-63.47	1	
		218+27.64	NB	LT-14.02	1	
		208+61.14	NB	RT-55.45		1
		208+51.44	NB	RT-58.39	1	
		208+20.76	NB	RT-31.81	1	
		208+11.09	NB	RT-44.58		1
		208+06.45	NB	RT-49.51	1	
		207+39.68	NB	RT-192.50		1
		207+51.08	NB	RT-138.63		1
		207+64.35	NB	RT-38.63		1
		207+60.63	NB	RT-35.94	1	

CONTINUED

TRAFFIC SIGNAL REMOVALS (CONTINUED)

PROJECT NO.	CAT	STATION		OFFSET	204.0195* REMOVING CONCRETE BASES EACH	653.0905* REMOVING PULL BOXES EACH
5992-10-32 (CONTINUED)						
		207+06.47	NB	RT-61.42		1
		207+09.28	NB	LT-30.35	1	
		207+19.53	SB	LT-28.82	1	
		207+28.59	SB	LT-34.32		1
		207+52.23	SB	LT-55.27	1	
		207+55.98	SB	LT-52.16		1
		207+92.68	SB	LT-40.14	1	
		207+99.40	SB	LT-30.55		1
		208+00.18	SB	LT-28.62	1	
		208+19.35	SB	RT-29.45	1	
		208+88.33	NB	LT-22.36	1	
		UNDISTRIBUTED			5	5
		PROJECT ID 5992-10-32 TOTALS			**29**	**22**

***ADDITIONAL QUANTITIES LISTED ELSEWHERE**

TRAFFIC SIGNAL REMOVAL ITEM

PROJECT NO.	CAT	LOCATION	SPV.0105.406 TRAFFIC SIGNAL REMOVAL LS
5992-10-32			
	0013	N/A	1
	PROJECT ID 5992-10-32 TOTALS		1

3

ITS LIGHTING CONTROL

PROJECT NO.	CAT	STRUCTURE	STATION		OFFSET	656.0200* ELECTRICAL SERVICE METER LS	COMMENTS
5992-10-32							
	0150	ITS METER	208+65.57	NB	RT-93.11	1	COORDINATE LOCATION WITH POWER UTILITY
				PROJECT 5992-10-32 TOTALS		1	

***ADDITIONAL QUANTITIES LISTED ELSEWHERE**

ITS ELECTRICAL PULLBOXES AND MANHOLES

PROJECT NO.	CAT	STRUCTURE	STATION		OFFSET	653.0164* ELECTRICAL PULLBOX 24X42-INCH EACH	COMMENTS
5992-10-32							
	0150	MHI1	208+52.78	NB	RT-137.91	1	
		MHI3	207+51.86	NB	RT-44.91	1	
		UNDISTRIBUTED				-	
					PROJECT 5992-10-32 TOTALS	2	

***ADDITIONAL QUANTITIES LISTED ELSEWHERE**

3

ITS TRAFFIC SIGNAL CONDUIT RIGID NONMETALLIC

PROJECT NO.	CAT	FROM	TO	652.0235* SCHEDULE 40 3-INCH LF	652.0335* SCHEDULE 80 3-INCH LF	652.0615* SPECIAL SCHEDULE 80 3-INCH LF	655.0700* LEAD-IN CABLE LF	655.0800* LOOP DETECTOR WIRE LF	655.0615* 10 AWG LF	655.0525 6 AWG LF	NOTES
5992-10-32											
	0150	ITS METER	MHI1	50	-	-	-	-	-	55	POWER
		MHI1	MHI2	-	145	-	-	-	-	450	POWER- 3#6
		MHI2	EXISTING	10	-	-	550	-	275	-	2 LOOPS - CONNECT CONDUIT TO EXISTING
		MHI2	MHI3	155	-	-	-	-	-	480	POWER - 3#6
		MHI2	MHI3	155	-	-	310	-	155	-	2 LOOPS
		MHI3	EXISTING	-	-	-	-	-	-	525	POWER - 3#6
		MHI3	EXISTING	-	-	-	340	-	170		2 LOOPS
		UNDISTRIBUTED		-	50	100	-	-	-	-	-
		UNDISTRIBUTED		-	-	-	-	200	-	-	IF LOOPS HAVE TO BE REPLACED
PROJECT 5992-10-32 TOTALS				370	195	100	1,200	200	600	1,510	

***ADDITIONAL QUANTITIES LISTED ELSEWHERE**

3

SAW CUTS

PROJECT NO.	CAT	STA	TO	STA	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
PROJECT 5992-10-31						
	0010			Grand Canyon Dr	91	5
				Grand Canyon Dr	36	5
				Parking Lot North	41	-
				Parking Lot East	33	2
				314+00 'BP'	11	3
				11+70 'BJ'	9	-
			PROJECT 5992-10-31 TOTALS		221	15
PROJECT 5992-10-32						
	0010			STAGE 1A	-	5690
				STAGE 1B	-	2560
				STAGE 1C	110	200
				STAGE 1D	210	120
				STAGE 1E	-	270
				STAGE 1F	870	1720
				STAGE 2A	110	2230
				STAGE 2B	50	130
				STAGE 2C	160	110
				STAGE 2D	50	-
				STAGE 3A	4910	-
				STAGE 3B	610	0
				STAGE 3C	750	0
				STAGE 3D	0	0
			PROJECT 5992-10-32 TOTALS		7830	13030
			OVERALL PROJECT TOTAL		**8051**	**13045**

MISCELLANEOUS MAINTENANCE, REPAIRS, FINISHING & FIELD OFFICE

PROJECT NO.	CAT	STA	-	STA	213.0100.02 FINISHING ROADWAY 5992-10-31 EACH	213.0100.01 FINISHING ROADWAY 5992-10-32 EACH	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS 5992-10-31 EACH	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS 5992-10-32 EACH	642.5401 FIELD OFFICE TYPE D EACH	645.5000 TRAFFIC CONTROL EACH
PROJECT 5992-10-31										
	0010	PROJECT LIMITS			1	-	1	-	0.5	1
PROJECT 5992-10-31 TOTALS					1	-	1	-	0.5	1
PROJECT 5992-10-32										
	0010	PROJECT LIMITS			-	1	-	1	0.5	1
PROJECT 5992-10-32 TOTALS					-	1	-	1	0.5	1
OVERALL PROJECT TOTAL					**1**	**1**	**1**	**1**	**1**	**2**

FLUID THERMAL BACKFILL

PROJECT NO.	CAT	STA	OFFSET	ALI	SPV.0060.650 FLUID THERMAL BACKFILL EACH
PROJECT 5992-10-31					
	0010	301+25	19' LT	BP	1
		301+84	20' LT	BP	1
		305+85	0.0'	BP	1
			PROJECT 5992-10-31 TOTALS		3
			OVERALL PROJECT TOTAL		**3**

REHEATING HMA PAVEMENT

PROJECT NO.	CAT	460.4110.S REHEATING HMA PAVEMENT LONGITUDINAL JOINTS LF	COMMENTS
PROJECT 5992-10-32			
	0010	-	
	UNDISTRIBUTED	4500	REPLACING TEMP. PAVEMENT WITH CURB AND GUTTER
PROJECT 5992-10-32 TOTALS		4500	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

TRANSPORTATION PROJECT PLAT TITLE SHEET

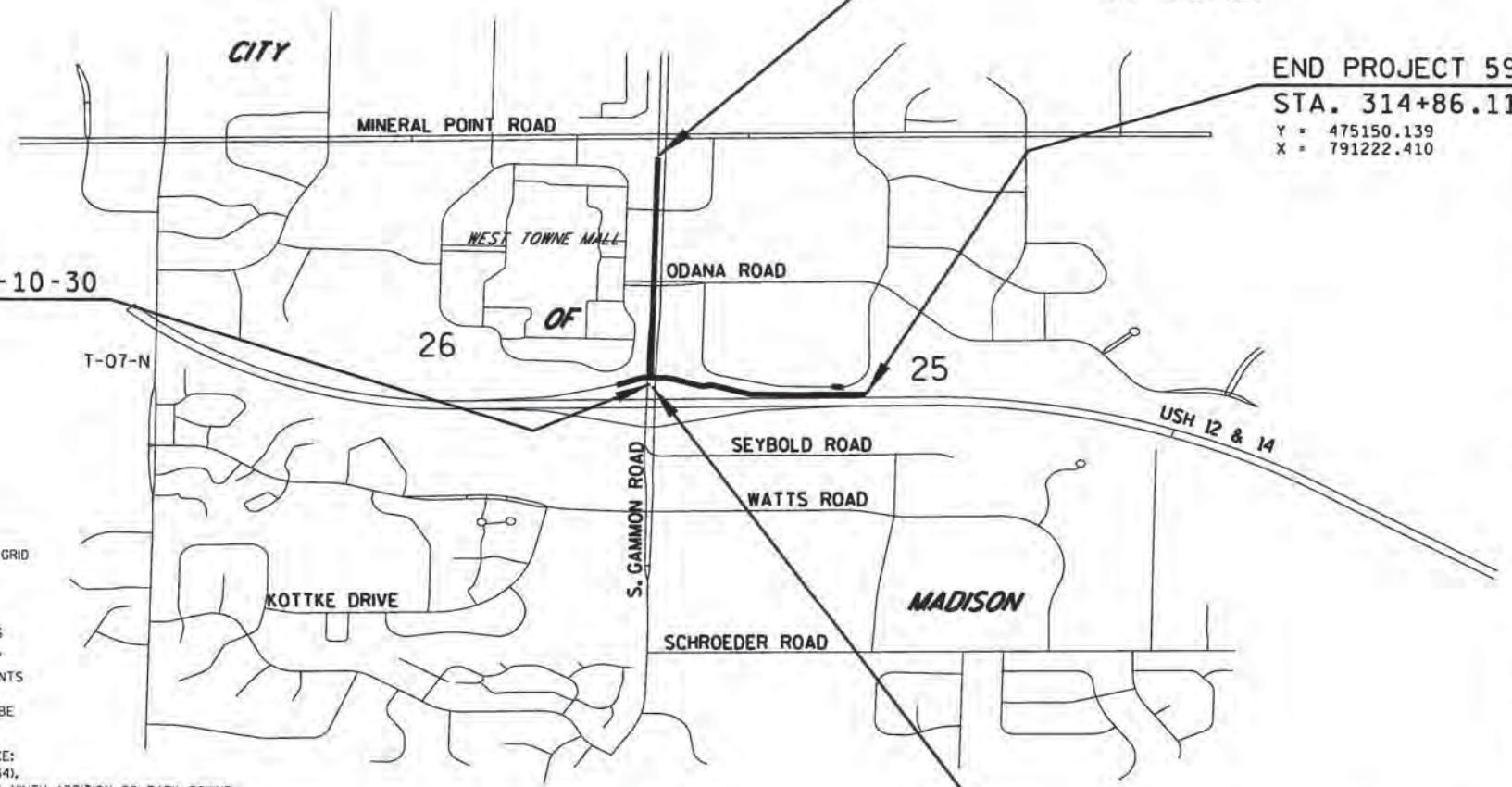
PROJECT NO. 5992-10-30

USH 12/14 TO MINERAL POINT ROAD

LOCAL STREET

DANE COUNTY





BEGIN PROJECT 5992-10-30
STA. 208+00"SB"
Y = 475272.566
X = 789359.520

END PROJECT 5992-10-30
STA. 227+00"SB"
Y = 477170.199
X = 789440.833

END PROJECT 5992-10-30
STA. 314+86.11"BP"
Y = 475150.139
X = 791222.410

BEGIN PROJECT 5992-10-30
STA. 294+50"BP"
Y = 475315.514
X = 789215.636

LAYOUT

SCALE 0 1/2 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.408 MI.
TOTAL NET LENGTH OF CENTERLINE (SHARED USE PATH) = 0.384 MI.

N

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY ZONE, NAD83 (2011) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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".

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.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT-OF-WAY FOR USH 12 & 14 ESTABLISHED FROM PREVIOUS PROJECT T04-2(34),
EXISTING HIGHWAY RIGHT-OF-WAY FOR GRAND CANYON DRIVE AND PLATTE DRIVE ESTABLISHED FROM NINTH ADDITION TO PARK TOWNE
EXISTING HIGHWAY RIGHT-OF-WAY FOR SOUTH GAMMON ROAD ESTABLISHED PREVIOUS PROJECT T04-2(34) AND CSM 13442
EXISTING HIGHWAY RIGHT-OF-WAY FOR ODANA ROAD ESTABLISHED FROM CSM 1075.

EXISTING ACCESS CONTROL ALONG USH 12 & 14 & GAMMON RD ESTABLISHED FROM PREVIOUS PROJECTS T04-2(34).

A **TEMPORARY LIMITED EASEMENT** (TLE) IS A RIGHT FOR CONSTRUCTION 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 NECESSARY OR DESIRABLE. ALL TLES 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 NECESSARY OR DESIRABLE. BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

A **HIGHWAY EASEMENT** (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	V.
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	⌀ (IF UNLESS NOTED)	PROPOSED R/W LINE	
		EXISTING H.E. LINE	
R/W MONUMENT	● =(SET)	PROPERTY LINE	
R/W STANDARD	▲ =(SET)	LOT & TIE LINES	
SIGN	SIGN	SLOPE INTERCEPTS	
SECTION CORNER MONUMENT	●	CORPORATE LIMITS	
SECTION CORNER SYMBOL		ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		ACCESS RESTRICTED (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
		QUARTER LINE	
PARCEL NUMBER	102	SIXTEENTH LINE	
UTILITY PARCEL NUMBER	92	EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)	21	PROPOSED REFERENCE LINE	
BUILDING		PARALLEL OFFSET	
PLE BOUNDARY POINT	PLE20		

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS

	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER	⊠	

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 5992-10-30 - 4.01
SHEET 2 OF 2
AMENDMENT NO:

FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\SheetsPlan\TPPs\599210XX_401 TITLE.dgn PLOT DATE : 4/4/2019 PLOT BY : LarsonB PLOT NAME : PLOT SCALE : 1:100

SCHEDULE OF LANDS & INTERESTS REQUIRED

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES OR S.F. REQUIRED			P.L.E. ACRES OR S.F.	T.L.E. ACRES OR S.F.
			NEW	EXISTING	TOTAL		
1	MADISON HOSPITALITY PTNR & RNAGALA LLC ET AL	PLE & TLE	-	-	-	3,949 S.F.	11,963 S.F.

RELOCATION ORDER APPROVED BY THE COMMON COUNCIL. RESOLUTION: RES-19-00165
FILE ID: 54549
DATE 3/5/19 EFFECTIVE 3/20/19 CITY CLERK

RELOCATION ORDER APPROVED BY THE PLANNING COMISSION
DATE 2/25/19 EXECUTIVE SECRETARY

RELOCATION ORDER APPROVED BY THE BOARD OF PUBLIC WORKS
DATE 2/20/19 EXECUTIVE SECRETARY

TRANSPORTATION PROJECT PLAT NO: 5992-10-30 - 4.01

THAT PART OF LOT 88 OF NINTH ADDITION TO PARK TOWNE BEING LOCATED IN PART OF THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 25, TOWNSHIP 7 NORTH, RANGE 8 EAST, CITY OF MADISON, DANE COUNTY, WISCONSIN.

RELOCATION ORDER CITY OF MADISON GAMMON RD - USH12/14 TO MINERAL POINT ROAD

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF MADISON DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTEREST OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF MADISON HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF MADISON, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

Office of Register of Deeds
Dane County, Wisconsin
Received for Record April 5th
20 19 at 1:36 o'clock P M
and recorded in vol. 61-007B
of Plats on pages 38-39
Anita Weidenkeski by
Britt Dieruff, Deputy Register
Doc. # 5479063

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 5992-10-30 - 4.01
SHEET 1 OF 2
AMENDMENT NO:

SCHEDULE OF UTILITIES & INTERESTS REQUIRED

UTILITY NUMBER	OWNER NAME	INTEREST REQUIRED
201	WISDOT	RELEASE OF RIGHTS
202	AMERICAN TRANSMISSION COMPANY	RELEASE OF RIGHTS
203	CITY OF MADISON	RELEASE OF RIGHTS
204	MADISON GAS AND ELECTRIC	RELEASE OF RIGHTS

(201) UTILITY EASEMENT DOC NO 1599963 & DOC 3884494
(202) AMERICAN TRANSMISSION COMPANY DOC NO 3884494
(203) DOC NO 1599638, NINTH ADDITION TO PARK TOWNE
(204) MADISON GAS & ELECTRIC DOC NO 1727857

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), DANE COUNTY ZONE, NAD83 (2011) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICAL 3/4" X 24" REBAR), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY AYRES ASSOCIATES.

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.

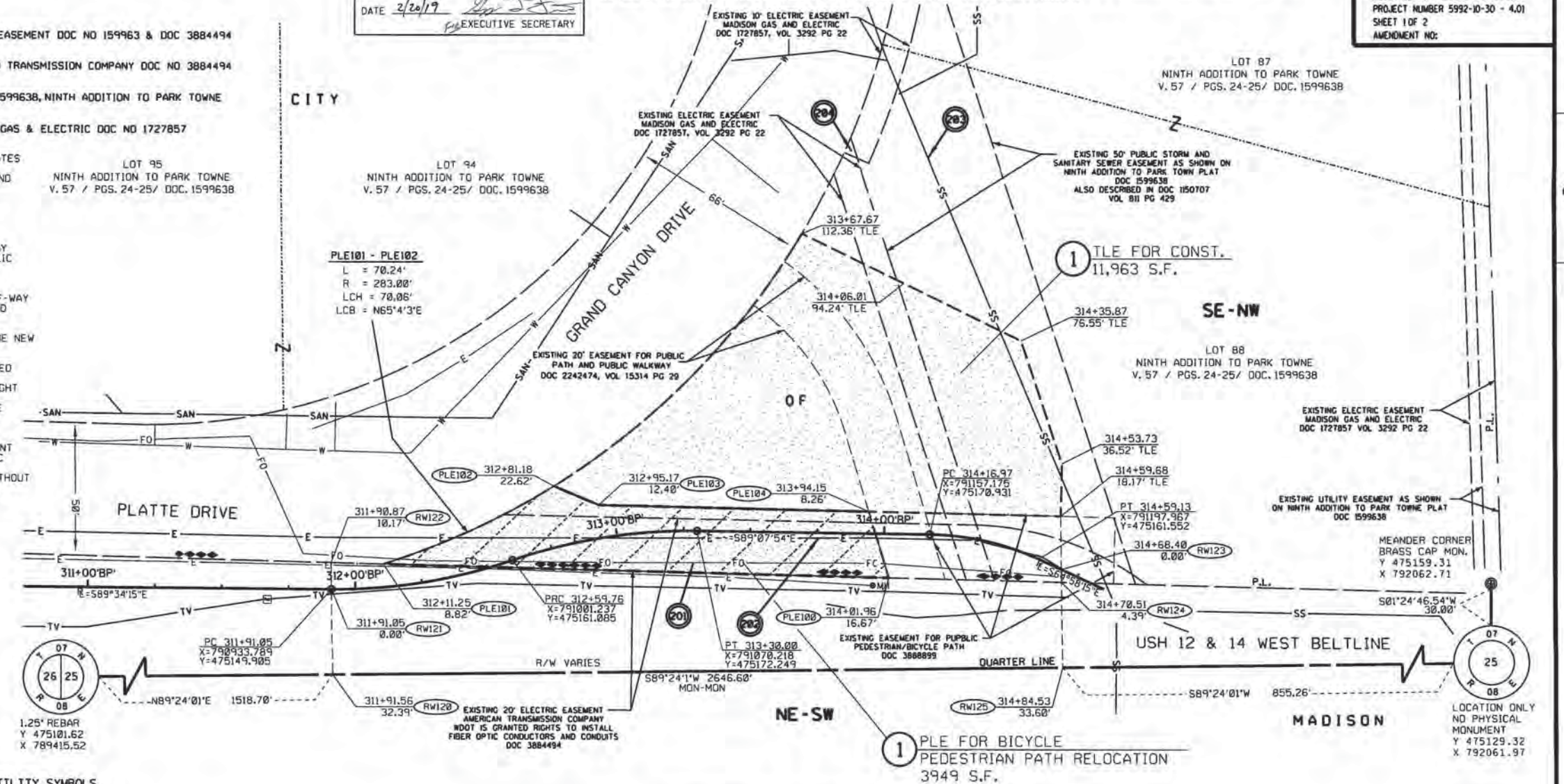
PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. EXCLUDING RIGHT-OF-WAY LINES, THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

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 NECESSARY OR 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 THE 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 NECESSARY OR DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT 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.

FOR CURRENT ACCESS/DRIVEWAY INFORMATION CONTACT THE CITY OF MADISON.



CONVENTIONAL ABBREVIATIONS

ACCESS POINT	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
CONVEYANCE OF RIGHTS	CR		
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	Δ
LENGTH OF CURVE	L
TANGENT	T

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN (1" UNLESS NOTED)
R/W MONUMENT (●SET)
R/W STANDARD (▲SET)
SIGN
SECTION CORNER MONUMENT
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT (RW28)
PARCEL NUMBER (102)
SIGN NUMBER (OFF PREMISES) (21)
BUILDING
PLE BOUNDARY POINT (PLE28)

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL)
NO ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE		NON COMPENSABLE / COMPENSABLE
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

HIGHWAY	BASIS OF EXISTING R/W	WIDTH	YEAR
GRAND CANYON DRIVE	NINTH ADDITION TO PARK TOWNE	66'	1978
PLATTE DRIVE	NINTH ADDTITION TO PARK TOWNE	50'	1978
USH 12 & 14	T04-2 (34)	VARIES	1996

PISTA = 312+25.75
PIY = 475149.645
PIX = 790968.483
Δ = 19° 40' 58" (LT)
D = 28° 38' 52"
T = 34.69'
L = 68.71'
R = 200.00'
PC STA = 311+91.05
PRC STA = 312+59.76

PISTA = 312+95.24
PIY = 475172.787
PIX = 791034.737
Δ = 20° 07' 20" (RT)
D = 28° 38' 52"
T = 35.49'
L = 70.24'
R = 200.00'
PRC STA = 312+59.76
PT STA = 313+30.00

PISTA = 314+38.37
PIY = 475170.606
PIX = 791178.575
Δ = 24° 09' 38" (RT)
D = 57° 17' 45"
T = 21.40'
L = 42.17'
R = 100.00'
PC STA = 314+16.97
PT STA = 314+59.13

COURSE TABLE			
FROM	TO	BEARING	DIST.
RW120	RW121	N00°36'30"W	32.38'
RW121	RW122	N00°36'30"W	10.17'
RW122	PLE101	S88°27'51"E	19.46'
PLE101	PLE102	SEE CURVE INFO ON SHEET	
PLE102	PLE103	S67°13'57"E	18.32'
PLE103	PLE104	S88°36'17"E	100.95'
PLE104	PLE100	S16°32'06"E	26.12'
PLE100	RW124	S88°27'51"E	64.52'
RW124	RW125	S00°36'30"E	32.39'
RW125	RW120	S89°24'01"W	272.64'
RW123	RW124	N00°36'30"W	4.86'
PLE100	PLE101	N88°27'51"W	188.85'

GN

SCALE, FEET
0 25 50

AYRES ASSOCIATES

I, BENJAMIN J LARSON, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF MADISON, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN BENJAMIN J LARSON S-3006 EAST TROY WISCONSIN LAND SURVEYOR

SIGNATURE _____ DATE 04/04/2019
PRINTED NAME BENJAMIN J LARSON
REGISTRATION NUMBER S-3006

FILE NAME : V:\Trans-MD\410737 - Gamman Road\Roadway\DGN\SheetsPlan\TPPs\599210XX_401.dgn

PLOT DATE : 4/4/2019 PLOT BY : LarsonB PLOT NAME : PLOT SCALE : 1:25

4

TRANSPORTATION PROJECT PLAT NO: 5992-10-30 - 4.02

THAT PART OF LOT 3 AND LOT 4, OF C.S.M. 13442 LOCATED IN AND INCLUDING THAT PART OF THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4, ALL IN SECTION 26 TOWNSHIP 7 NORTH, RANGE 8 EAST, CITY OF MADISON, DANE COUNTY, WISCONSIN.

RELOCATION ORDER CITY OF MADISON GAMMON RD - USH12/14 TO MINERAL POINT ROAD

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF MADISON DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, CITY OF MADISON, HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF MADISON, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

RELOCATION ORDER APPROVED BY THE COMMON COUNCIL. RESOLUTION: RES-19-00165
FILE ID: 54549
DATE 3/5/19 _____ for CITY CLERK
EFFECTIVE 3/20/19

RELOCATION ORDER APPROVED BY THE PLANNING COMISSION
DATE 2/25/19 _____ EXECUTIVE SECRETARY

RELOCATION ORDER APPROVED BY THE BOARD OF PUBLIC WORKS
DATE 2/20/19 _____ FOR EXECUTIVE SECRETARY

PISTA = 215+81.56
PIY = 476052.241
PIX = 789409.271
Δ = 03°49'32" (LT)
D = 01°55'01"
T = 99.82'
L = 199.57'
R = 2989.00'
PC STA = 214+81.74
PT STA = 216+81.31

BRASS CAP MON.
Y 477741.90
X 789475.96

Office of Register of Deeds
Dane County, Wisconsin
Received for Record April 8
2019 at 11:47 o'clock A M
and recorded in vol. 161-008A
of Plats on page 45
Kristi Chlebowski by
Britt Dichraff, Deputy Register
Doc. # 5479243

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 5992-10-30 - 4.02
AMENDMENT NO:

COURSE TABLE			
FROM	TO	BEARING	DIST.
RW200	RW201	S01°18'41"W	964.55'
RW201	RW202	N88°33'00"W	59.76'
RW202	RW203	N88°33'00"W	131.34'
RW203	RW204	N09°55'00"E	648.39'
RW204	PLE250	N01°39'38"E	164.67'
PLE250	PLE251	N42°17'50"W	33.88'
PLE251	PLE252	N17°46'00"W	35.35'
PLE252	PLE253	N01°18'42"E	34.18'
PLE253	PLE254	S88°40'55"E	35.00'
PLE254	PLE255	N01°18'42"E	50.68'
PLE255	PLE256	S88°41'19"E	20.00'
PLE256	RW207	N01°18'42"E	15.74'
RW207	RW208	S88°31'30"E	45.00'
RW208	RW200	S88°31'30"E	28.00'
PLE256	PLE206	S01°18'35"W	119.99'
PLE206	PLE249	S64°44'47"W	22.36'
PLE249	PLE250	S01°39'30"W	12.81'

HIGHWAY	BASIS OF EXISTING R/W	WIDTH	YEAR
SOUTH GAMMON ROAD	T04-2 (34) AND CSM 13442	VARIES	2012
ODANA ROAD	CSM 1075	100'	1973
USH 12 & 14	T04-2 (34)	VARIES	1996

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), DANE COUNTY ZONE, NAD83 (2011) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICAL 3/4" X 24" REBAR), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY AYRES ASSOCIATES.

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.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. EXCLUDING RIGHT-OF-WAY LINES, THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

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 NECESSARY OR DESIRABLE. ALL TLEs ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

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FOR CURRENT ACCESS/DRIVEWAY INFORMATION CONTACT THE CITY OF MADISON.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET RECORDED AS SHEET 2 OF 2 OF DOCUMENT 5479243, OF TRANSPORTATION PROJECT PLATS IN THE DANE COUNTY REGISTER OF DEEDS.

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN L.R. (1" UNLESS NOTED)
R/W MONUMENT (SET)
R/W STANDARD (SET)
SIGN
SECTION CORNER MONUMENT
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT (RW20)
PARCEL NUMBER (102)
SIGN NUMBER (OFF PREMISE) (21-1)
BUILDING
PLE BOUNDARY POINT (PLE20)

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL)
NO ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

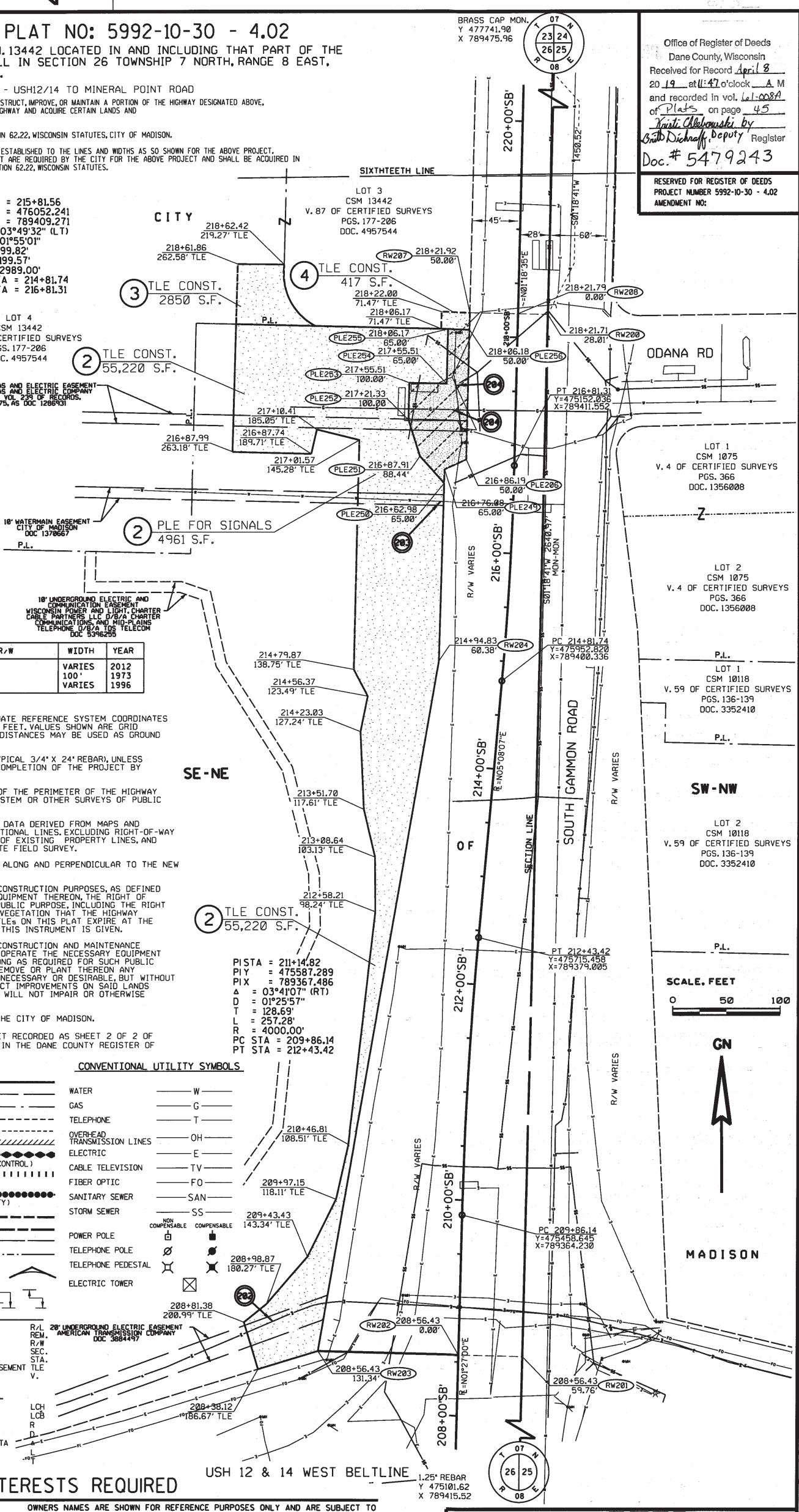
WATER — W
GAS — G
TELEPHONE — T
OVERHEAD TRANSMISSION LINES — OH
ELECTRIC — E
CABLE TELEVISION — TV
FIBER OPTIC — FO
SANITARY SEWER — SAN
STORM SEWER — SS (NON COMPENSABLE / COMPENSABLE)
POWER POLE
TELEPHONE POLE
TELEPHONE PEDESTAL
ELECTRIC TOWER

CONVENTIONAL ABBREVIATIONS

ACCESS POINT	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
CONVEYANCE OF RIGHTS	CR		
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		

CURVE DATA

LONG CHORD — LCH
LONG CHORD BEARING — LCB
RADIUS — R
DEGREE OF CURVE — D
CENTRAL ANGLE OR DELTA — Δ
LENGTH OF CURVE — L
TANGENT — T



PISTA = 211+14.82
PIY = 475587.289
PIX = 789367.486
Δ = 03°41'07" (RT)
D = 01°25'57"
T = 128.69'
L = 257.28'
R = 4000.00'
PC STA = 209+86.14
PT STA = 212+43.42

SCHEDULE OF LANDS & INTERESTS REQUIRED

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES OR S.F. REQUIRED			P.L.E. ACRES OR S.F.	T.L.E. ACRES OR S.F.
			NEW	EXISTING	TOTAL		
2	SERITAGE SRC FINANCE LLC	PLE TLE	-	-	-	4961 S.F.	55,220 S.F.
3	MADISON JOINT VENTURE STE 500	TLE	-	-	-	-	2850 S.F.
4	MADISON JOINT VENTURE	TLE	-	-	-	-	417 S.F.

SCHEDULE OF UTILITIES & INTERESTS REQUIRED

UTILITY NUMBER	OWNER NAME	INTEREST REQUIRED
202	AMERICAN TRANSMISSION COMPANY	RELEASE OF RIGHTS
203	CITY OF MADISON	RELEASE OF RIGHTS
204	MADISON GAS & ELECTRIC	RELEASE OF RIGHTS

202 ATC DOC NO 3884497
203 WATER MAIN EASEMENT DOC NO 1370667
204 MADISON GAS & ELECTRIC DOC NO 1286931

AYRES ASSOCIATES

I, BENJAMIN J LARSON, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF MADISON, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN BENJAMIN J LARSON S-3006 EAST TROY WISCONSIN LAND SURVEYOR

SIGNATURE _____ DATE 04/04/2019
PRINTED NAME BENJAMIN J LARSON
REGISTRATION NUMBER S-3006

4

PLOT SCALE : 1:50
CONT. 5992-10-70 USH 14 R/W 5992-10-30 - 4.02
PLOT NAME :
PLOT BY : LarsonB
PLOT DATE : 4/4/2019
FILE NAME : V:\Trans-MD\410737 - Common Road\Roadway\DGN\Sheets\Plan\PPs\599210XX_402.dgn

4

TRANSPORTATION PROJECT PLAT NO: 5992-10-30 - 4.03

THAT PART OF LOT 4, OF C.S.M. 13442 LOCATED IN AND INCLUDING THAT PART OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4, ALL IN SECTION 26 TOWNSHIP 7 NORTH, RANGE 8 EAST, CITY OF MADISON, DANE COUNTY, WISCONSIN.

RELOCATION ORDER CITY OF MADISON GAMMON RD - USH12/14 TO MINERAL POINT ROAD

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF MADISON DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF MADISON HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF MADISON, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), DANE COUNTY ZONE, NAD83 (2011) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICAL 3/4" X 24" REBAR), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY AYRES ASSOCIATES.

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.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. EXCLUDING RIGHT-OF-WAY LINES, THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

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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 NECESSARY OR DESIRABLE. ALL TLEs ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

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FOR CURRENT ACCESS/DRIVEWAY INFORMATION CONTACT THE CITY OF MADISON.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET RECORDED AS SHEET 2 OF 2 OF DOCUMENT 5479063 OF TRANSPORTATION PROJECT PLATS IN THE DANE COUNTY REGISTER OF DEEDS.

RELOCATION ORDER APPROVED BY THE COMMON COUNCIL. RESOLUTION: RES-19-00165
FILE ID: 54549
DATE 3/5/19 CITY CLERK
EFFECTIVE 3/20/19

RELOCATION ORDER APPROVED BY THE PLANNING COMISSION
DATE 2/25/19 EXECUTIVE SECRETARY

RELOCATION ORDER APPROVED BY THE BOARD OF PUBLIC WORKS
DATE 2/20/19 EXECUTIVE SECRETARY

Office of Register of Deeds
Dane County, Wisconsin
Received for Record April 8
2019 at 11:47 o'clock A M
and recorded in vol. 161-008A
of Plats on page 46
Kristi Chlebowski by
Brad Dichtaff, Deputy Register
Doc. # 5479244

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 5992-10-30 - 4.03
AMENDMENT NO:

BRASS CAP MON.
Y 477741.90
X 789475.96

T 07 N R 08 E — 23 24 26 25

LOT 3
CSM 13442
V. 87 OF CERTIFIED SURVEYS
PGS. 177-206
DOC. 4957544

CITY

228+00'SB'
227+00'SB'
226+00'SB'
225+00'SB'
224+00'SB'
223+00'SB'
R=N01°18'35"E
S01°18'41"W 2640.97' M=M=N
S01°18'41"W 680.73'
SECTION LINE
SOUTH GAMMON ROAD
GAMMON PL 46'
P.L.
51' 22' 70'
73' 60'

5 TLE CONST. 797 S.F.
3 TLE CONST. 4605 S.F.
NE - NE
NW - NW
OF

18' EASEMENT GAS AND ELECTRIC EASEMENT TO MADISON GAS AND ELECTRIC COMPANY RECORED IN VOL 238 OF RECORDS, PAGE 375, AS DOC 1286931

PUBLIC STREET LIGHTING AND TRAFFIC SIGNAL EASEMENT DOC 4957544

RW304 225+91.62 50.97'
225+63.61 94.87' TLE
225+76.77 71.11' TLE
RW305 225+91.62 0.00'
225+91.62 22.03' RW300
225+63.49 133.54' TLE
225+74.33 50.97' TLE
225+56.84 133.63' TLE
225+56.84 96.95' TLE
225+36.61 133.63' TLE
225+37.04 92.38' TLE
224+78.96 92.79' TLE
224+79.08 69.11' TLE
224+77.39 65.45' TLE
224+69.42 65.49' TLE
RW302 224+68.96 0.00'
224+68.96 22.03' RW301
RW303 224+68.96 50.97'
PT 224+63.13 Y=476933.392 X=789435.419
PRC 223+68.94 Y=476839.359 X=789430.290
PC 222+73.36 Y=476743.937 X=789425.085

LOT 4
CSM 13442
V. 87 OF CERTIFIED SURVEYS
PGS. 177-206
DOC. 4957544

LOT 1
CSM 1953
V. 8 OF CERTIFIED SURVEYS
PGS. 82-83
DOC. 1461836

MADISON

PISTA = 224+16.05
PIY = 476886.294
PIX = 789434.342
Δ = 03° 37' 28" (LT)
D = 03° 50' 53"
T = 47.11'
L = 94.19'
R = 1489.00'
PRC STA = 223+68.94
PT STA = 224+63.13

PISTA = 223+21.17
PIY = 476791.730
PIX = 789426.178
Δ = 03° 37' 28" (RT)
D = 03° 47' 31"
T = 47.81'
L = 95.58'
R = 1511.00'
PC STA = 222+73.36
PRC STA = 223+68.94

1.25" REBAR
Y 475101.62
X 789415.52

SCALE, FEET
0 25 50

COURSE TABLE

FROM	TO	BEARING	DIST.
RW300	RW301	S01°18'41"W	122.66'
RW301	RW302	N88°41'19"W	22.03'
RW302	RW303	N88°41'19"W	50.97'
RW303	RW304	N01°18'41"E	122.66'
RW304	RW305	S88°41'19"E	50.97'
RW305	RW306	S88°41'19"E	22.03'

CONVENTIONAL ABBREVIATIONS

ACCESS POINT	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
CONVEYANCE OF RIGHTS	CR		
DOCUMENT	DOC.		
EASEMENT	EASE.	CURVE DATA	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	Δ
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	T

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN (1" UNLESS NOTED)
R/W MONUMENT (SET)
R/W STANDARD (SET)
SIGN
SECTION CORNER MONUMENT
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT (RW20)
PARCEL NUMBER (102)
SIGN NUMBER (OFF PREMISE) (21-1)
BUILDING
PLE BOUNDARY POINT (PLE20)

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL)
NO ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

HIGHWAY	BASIS OF EXISTING R/W	WIDTH	YEAR
GRAND CANYON DRIVE	NINTH ADDITION TO PARK TOWNE	66'	1978
PLATTE DRIVE	NINTH ADDTITION TO PARK TOWNE	50'	1978
USH 12 & 14	???	???	???

SCHEDULE OF LANDS & INTERESTS REQUIRED

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES OR S.F. REQUIRED			T.L.E. ACRES OR S.F.
			NEW	EXISTING	TOTAL	
3	MADISON JOINT VENTURE STE 500	TLE	-	-	-	4605 S.F.
5	MADISON JOINT VENTURE STE 500	TLE	-	-	-	797 S.F.

SCHEDULE OF UTILITIES & INTERESTS REQUIRED

UTILITY NUMBER	OWNER NAME	INTEREST REQUIRED
203	CITY OF MADISON	RELEASE OF RIGHTS
204	MADISON GAS AND ELECTRIC	RELEASE OF RIGHTS
207	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS
210	CENTURY LINK	RELEASE OF RIGHTS

(204) MADISON GAS AND ELECTRIC DOC 1286931

GN

AYRES ASSOCIATES

I, BENJAMIN J LARSON, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY OF MADISON, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE _____ DATE 04/04/2019
PRINTED NAME BENJAMIN J LARSON
REGISTRATION NUMBER S-3006

WISCONSIN BENJAMIN J LARSON S-3006 EAST TROY WISCONSIN LAND SURVEYOR

PLOT SCALE : 1:25
CONT. 5992-10-70 USH 14 R/W 5992-10-30 - 4.03
PLOT NAME :
PLOT BY : LarsonB
PLOT DATE : 4/4/2019
FILE NAME : V:\Trans-MD\410737 - Gammon Road\Roadway\DGN\Sheet&Plan\TPPs\5992101XX_403.dgn

4

RETAINING WALL R-13-338
WB ON RAMP
TEMPORARY LIMITED EASEMENT
RETAINING WALL R-13-343
RETAINING WALL R-13-339
EX. R/W
SERITAGE SRC FINANCE LLC
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
98+00'MA'
WEST TOWNE MALL ENTRANCE
MADISON JOINT VENTURE SUITE 500
TEMPORARY LIMITED EASEMENT
SLOPE INTERCEPT
P.L.
1-1/4" IP
206+00'SB'
208+00'SB'
210+00'SB'
212+00'SB'
214+00'SB'
216+00'SB'
218+00'SB'
220+00'SB'
210+00'BC
210+00'SW'
212+00'SW'
214+00'SW'
216+00'SW'
34+00'BD'
216+00'MAB'
GAMMON RD
206+00'NB'
208+00'NB'
210+00'NB'
212+00'NB'
214+00'NB'
216+00'NB'
218+00'NB'
220+00'NB'
WB USH 12/14
BOX CULVERT B-13-870
SLOPE INTERCEPT
SAVE TREES
1" IP
1-1/4" IP
3/4" REBAR
1-1/4" REBAR
SAVE TREE
BM *FH1
SAVE TREES
EX. R/W
WB OFF RAMP
RETAINING WALL R-13-341
RETAINING WALL R-13-340
TWENTY-SEVEN SAC SELF STORAGE LTD PARTNERSHIP
CH RETAIL FUND I/MADISON GAMMON ROAD LLC
S & H 509 GAMMON LLC
505 GAMMON LLC
ODANA RD
502+00'OD
P&P VENTURES LLC
5
5

BEGIN PROJECT 5992-10-32
STA. 208+07.60'NB'
Y = 475278.469
X = 789418.688

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
FH1	218+36'NB'	TOP NUT OF HYDRANT	31' RT.	1047.83

208+07.60 Elev 1075.15
G = -0.57%
PVC 210+30.00 Elev 1073.87
PVI 212+05.00 Elev 1072.87
PVT 213+80.00 Elev 1064.37
K = 82
L = 350.00'
G = -4.86%
PVC 216+45.00 Elev 1051.50
K = 76
L = 165.00'
PVI 217+27.50 Elev 1047.50
G = -2.67%
PVT 218+10.00 Elev 1045.29
PVI 218+10.00 Elev 1045.29
G = -1.96%
PVC 219+50.00 Elev 1042.55
K = 68
L = 100.00'
PVI 220+00.00 Elev 1041.57
PVT 220+50.00 Elev 1041.32
G = -0.50%

1090 1080 1070 1060 1050 1040 1030 1020

1076.30 1076.03 1075.75 1075.49 1075.20 1074.90 1074.91 1074.58 1074.62 1074.31 1074.33 1073.96 1074.04 1073.51 1073.73 1072.92 1073.17 1072.11 1072.30 1071.06 1071.13 1069.60 1069.65 1067.91 1067.86 1065.74 1065.77 1063.35 1063.40 1060.85 1060.97 1058.36 1058.55 1055.84 1056.12 1053.34 1053.69 1050.96 1051.26 1048.78 1049.03 1046.96 1047.14 1045.45 1045.57 1044.13 1044.51 1043.00 1043.53 1042.22 1042.55 1041.68 1041.75 1041.22 1041.32 1040.94 1041.07

206+00 206+50 207+00 207+50 208+00 208+50 209+00 209+50 210+00 210+50 211+00 211+50 212+00 212+50 213+00 213+50 214+00 214+50 215+00 215+50 216+00 216+50 217+00 217+50 218+00 218+50 219+00 219+50 220+00 220+50 221+00

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	PLAN AND PROFILE - NB GAMMON SCALE, FEET 0 50 100	SHEET 302	E

MADISON JOINT VENTURE STE 500

MADISON JOINT VENTURE STE 500

P.L.

WEST TOWNE MALL ENTRANCE

898+00'NB'

TEMPORARY LIMITED EASEMENT

TEMPORARY LIMITED EASEMENT

3/4" REBAR

SLOPE INTERCEPT

SAVE TREES

EX. R/W

MINERAL POINT RD

1-1/4" IP

CHSL X

222+00'SB'

224+00'SB'

226+00'SB'

228+00'SB'

230+00'SB'

232+00'SB'

GAMMON RD

222+00'NB'

224+00'NB'

226+00'NB'

228+00'NB'

230+00'NB'

232+00'NB'

GAMMON RD

EX. R/W

7/8" REBAR

1-1/4" REBAR

BM #FH2

SAVE TREES

SAVE TREES

SAVE TREES

SAVE TREES

SLOPE INTERCEPT

3/4" REBAR

3/4" REBAR

3/4" REBAR

3/4" REBAR

SIGN

SIGN

3/4" REBAR

P.L.

P.L.

P.L.

P.L.

EX. R/W

EX. R/W

EX. R/W

EX. R/W

801+00'SP'

GAMMON PL

MINERAL POINT RD

CITY OF MADISON ENGINEER STORMWATER UTILITY 533

THE ROAD REAL ESTATE LLC

434 GAMMON INVESTORS LLC

GAMMON RESTAURANT LLC

GAMMON PLACE LLC

5

5

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
FH2	223+78'NB'	TOP NUT OF HYDRANT	30' RT.	1044.70

END PROJECT 5992-10-32
STA. 229+64.24'NB'

PVI 221+75.00 Elev 1040.70
PVI 222+25.00 Elev 1040.50
PVI 222+75.00 Elev 1040.70
PVI 226+50.00 Elev 1042.80
PVI 227+00.00 Elev 1043.00
PVI 227+50.00 Elev 1042.80
PVI 229+00.00 Elev 1041.75
PVI 229+50.00 Elev 1041.31

G = -0.50%
G = -0.40%
G = 0.40%
G = 0.56%
G = 0.40%
G = -0.40%
G = -0.70%
G = -0.87%

1070 1060 1050 1040 1030 1020 1010 1000

1040.94 1041.07 | 1040.59 1040.82 | 1040.44 1040.60 | 1040.62 1040.60 | 1040.86 1040.84 | 1041.13 1041.12 | 1041.43 1041.40 | 1041.66 1041.68 | 1041.92 1041.96 | 1042.14 1042.24 | 1042.43 1042.52 | 1042.68 1042.80 | 1042.89 1043.00 | 1042.80 1042.80 | 1042.46 1042.45 | 1042.07 1042.10 | 1041.75 1041.75 | 1041.31 1041.31 | 1040.93 | 1040.60 | 1040.28 | 1040.04 | 1039.44

221+00 221+50 222+00 222+50 223+00 223+50 224+00 224+50 225+00 225+50 226+00 226+50 227+00 227+50 228+00 228+50 229+00 229+50 230+00 230+50 231+00 231+50 232+00 232+50 233+00 233+50 234+00 234+50 235+00 235+50 236+00

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	PLAN AND PROFILE - NB GAMMON	SCALE, FEET 0 50 100	SHEET 303	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\050103_PP_NB.dgn

PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40

BEGIN CONSTRUCTION
STA. 208+03.19'SB'

RETAINING WALL R-13-338
RETAINING WALL R-13-343
RETAINING WALL R-13-339
RETAINING WALL R-13-340
RETAINING WALL R-13-341
BOX CULVERT B-13-870

TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
SLOPE INTERCEPT
SAVE TREES
SAVE TREE

WB ON RAMP
WB OFF RAMP
WB USH 12/14
GAMMON RD
ODANA RD
EX. R/W
P.L.

206+00'SB'
208+00'SB'
210+00'SB'
212+00'SW'
212+00'SB'
214+00'SB'
216+00'SW'
216+00'MAB'
216+00'SB'
218+00'SB'
220+00'SB'
206+00'NB'
208+00'NB'
210+00'NB'
212+00'NB'
214+00'NB'
216+00'NB'
218+00'NB'
220+00'NB'
210+00'BC'
210+00'SW'
214+00'SW'
34+00'BD'
198+00'WBF'
798+00'MA'

SERITAGE SRC FINANCE LLC
MADISON JOINT VENTURE SUITE 500
WEST TOWNE MALL ENTRANCE
TRANSFORMER
TWENTY-SEVEN SAC SELF STORAGE LTD PARTNERSHIP
CH RETAIL FUND I/MADISON GAMMON ROAD LLC
S & H 509 GAMMON LLC
505 GAMMON LLC
P&P VENTURES LLC

1" IP
1-1/4" IP
3/4" REBAR
1-1/4" REBAR

BM *FH1

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
FH1	218+36'NB'	TOP NUT OF HYDRANT	31' RT.	1047.83

208+05.82 Elev 1075.09
PVC 210+06.00 Elev 1074.02
PVI 211+90.00 Elev 1073.02
PVT 213+75.00 Elev 1064.15
PVI 216+50.00 Elev 1050.95
PVI 217+00.00 Elev 1048.91
PVI 217+25.00 Elev 1047.97
PVI 217+50.00 Elev 1047.11
PVI 217+75.00 Elev 1046.33
PVI 218+00.00 Elev 1045.63
PVI 218+25.00 Elev 1045.11
PVC 218+50.00 Elev 1044.60
PVI 219+00.00 Elev 1043.56
PVT 219+50.00 Elev 1043.22
PVI 218+10.00 Elev 1045.38

G = -0.54%
G = -4.80%
G = -0.69%
G=-4.09%
G=-3.75%
G=-3.44%
G=-3.11%
G=-2.78%
G=-2.55%
G=-2.07%
G=-1.77%

K = 87
L = 370.00'
K = 73
L = 100.00'

1090 1080 1070 1060 1050 1040 1030 1020

1076.34 1076.04 1075.73 1075.43 1075.14 1074.88 1074.86 1074.57 1074.59 1074.29 1074.32 1073.96 1074.05 1073.60 1073.66 1072.96 1072.99 1072.14 1072.03 1070.97 1070.78 1069.56 1069.25 1067.88 1067.42 1065.85 1065.31 1063.42 1062.95 1060.88 1060.55 1058.37 1058.15 1055.84 1055.75 1053.31 1053.35 1050.85 1050.95 1048.66 1048.91 1046.92 1047.11 1045.39 1045.63 1044.01 1044.60 1043.02 1043.73 1042.39 1043.22 1041.97 1042.87 1041.69 1042.53 1041.40 1042.18

206+00 206+50 207+00 207+50 208+00 208+50 209+00 209+50 210+00 210+50 211+00 211+50 212+00 212+50 213+00 213+50 214+00 214+50 215+00 215+50 216+00 216+50 217+00 217+50 218+00 218+50 219+00 219+50 220+00 220+50 221+00

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	PLAN AND PROFILE - SB GAMMON	SCALE, FEET 0 50 100	SHEET 304	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\050105_PP_SB.dgn
PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:100
WISDOT/CADDS SHEET 40

MADISON JOINT VENTURE STE 500

MADISON JOINT VENTURE STE 500

P.L.

898+00'MB'

WEST TOWNE MALL ENTRANCE

TEMPORARY LIMITED EASEMENT

3/4" REBAR

TEMPORARY LIMITED EASEMENT

SLOPE INTERCEPT

END CONSTRUCTION
STA. 229+65.00'SB'

SAVE TREES

EX. R/W

MINERAL POINT RD

1-1/4" IP

222+00'SB'

224+00'SB'

226+00'SB'

228+00'SB'

230+00'SB'

232+00'SB'

GAMMON RD

222+00'NB'

224+00'NB'

226+00'NB'

228+00'NB'

230+00'NB'

232+00'NB'

GAMMON RD

7/8" REBAR

1-1/4" REBAR

BM *FH2

SAVE TREES

SLOPE INTERCEPT

SAVE TREES

3/4" REBAR

3/4" REBAR

3/4" REBAR

SAVE TREES

3/4" REBAR

SAVE TREES

P.L.

P.L.

P.L.

P.L.

EX. R/W

GAMMON PL

EX. R/W

EX. R/W

MINERAL POINT RD

CITY OF MADISON ENGINEER
STORMWATER UTILITY 533

THE ROAD REAL ESTATE LLC

434 GAMMON INVESTORS LLC

GAMMON RESTAURANT LLC

GAMMON PLACE LLC

5

5

BENCH MARKS

NO.	STATION	DESCRIPTION	OFFSET	ELEV.
FH2	223+78'NB'	TOP NUT OF HYDRANT	30'RT.	1044.70

PVI 222+75.00 Elev 1040.98
PVI 223+00.00 Elev 1040.88
PVI 223+25.00 Elev 1040.98
PVI 226+50.00 Elev 1042.80
PVI 227+00.00 Elev 1043.00
PVI 227+50.00 Elev 1042.80
229+70.00 Elev 1041.29

G = -0.69%
G = -0.40%
G = 0.40%
G = 0.56%
G = 0.40%
G = -0.40%
G = -0.69%

1070 1060 1050 1040 1030 1020 1010 1000

1041.40 1042.18 | 1041.18 1041.84 | 1040.96 1041.50 | 1040.78 1041.15 | 1040.92 1040.88 | 1041.14 1041.12 | 1041.44 1041.40 | 1041.66 1041.68 | 1041.70 1041.96 | 1042.15 1042.24 | 1042.43 1042.52 | 1042.68 1042.80 | 1042.90 1043.00 | 1042.82 1042.80 | 1042.43 1042.46 | 1042.07 1042.11 | 1041.66 1041.77 | 1041.37 1041.43 | 1041.16 | 1040.80 | 1040.53 | 1040.24 | 1039.75

221+00 221+50 222+00 222+50 223+00 223+50 224+00 224+50 225+00 225+50 226+00 226+50 227+00 227+50 228+00 228+50 229+00 229+50 230+00 230+50 231+00 231+50 232+00 232+50 233+00 233+50 234+00 234+50 235+00 235+50 236+00

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	PLAN AND PROFILE - SB GAMMON	SCALE, FEET 0 50 100	SHEET 305	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\050106_PP_SB.dgn

PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40

SERITAGE SRC FINANCE LLC

CP BEL 4

TEMPORARY LIMITED EASEMENT

EX. R/W

EX. R/W

293+00'BP'

294+00'BP'

295+00'BP'

296+00'BP'

297+00'BP'

209+00'B

209+00'SB'

209+00'NB'

195+00'WBF

400+00'WBO'

399+00'WBO'

208+00'SB'

208+00'NB'

196+00

RETAINING WALL R-13-338

SLOPE INTERCEPT

BEGIN CONSTRUCTION
STA. 399+25.5'WBO'

BOX CULVERT B-13-870

WB ON RAMP

GAMMON RD

Off Ramp

POST POST POST

SS

60.00' VC
K = 21

'WBO' LINE

PI STA 399+25.00
PC EL 1074.66

PI STA 399+55.00
PI EL 1073.95

LO STA 399+74.51
LO EL 1074.07

PT STA 399+85.00
PT EL 1074.10

G=0.50%

PI STA 400+23.50
PI EL 1074.30

1074.66 1074.66
1074.20 1074.22
1074.29 1074.08
1074.48 1074.18
1074.44 1074.29
1074.40 1074.26

1090 1085 1080 1075 1070 1065 1060 1055

395+25 395+50 395+75 396+00 396+25 396+50 396+75 397+00 397+25 397+50 397+75 398+00 398+25 398+50 398+75 399+00 399+25 399+50 399+75 400+00 400+25 400+50 400+75 401+00 401+25

5

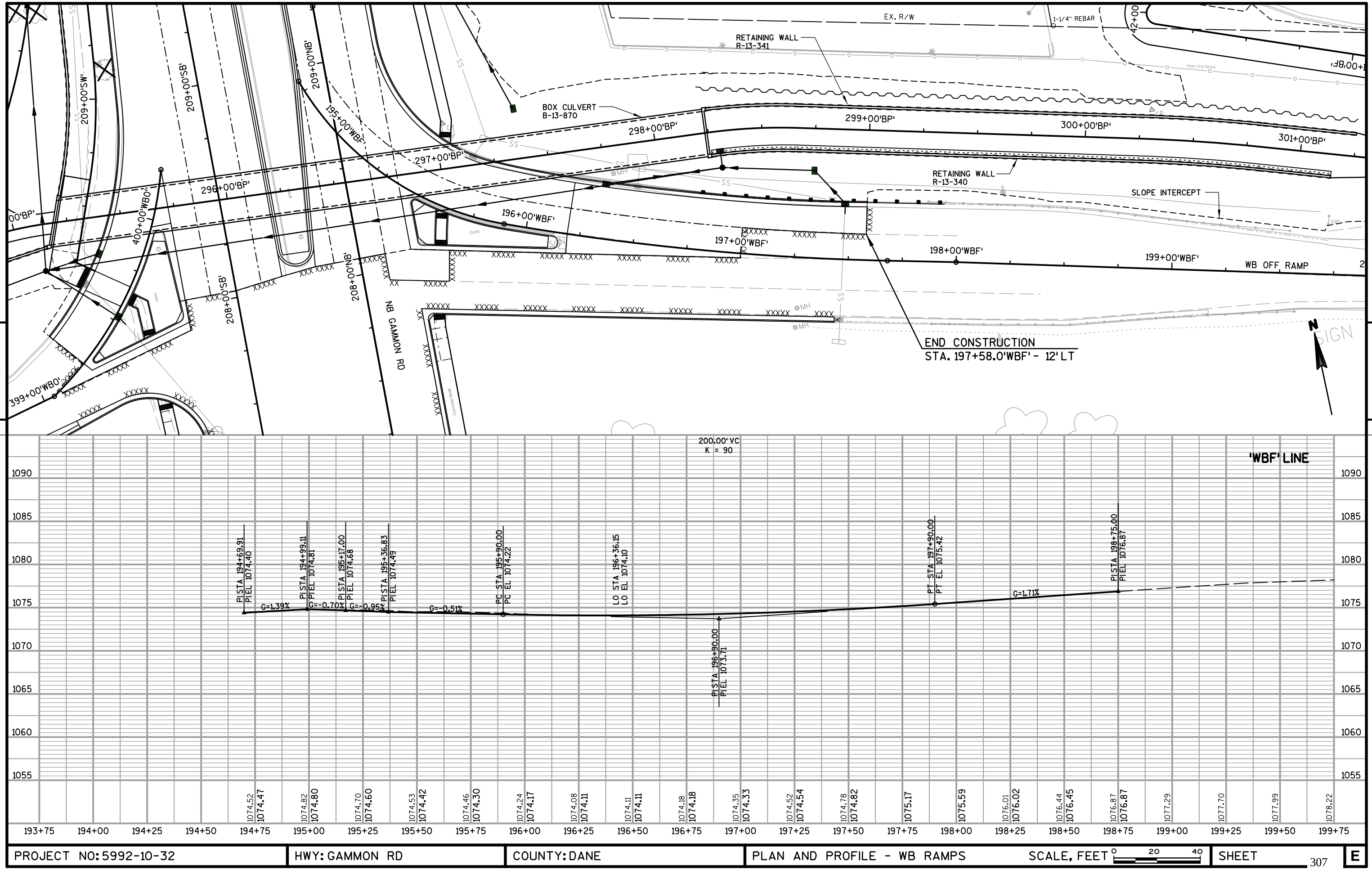
5

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	PLAN AND PROFILE - WB RAMPS SCALE, FEET 0 20 40	SHEET 306	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\050130_PP_WB0.dgn

PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:40

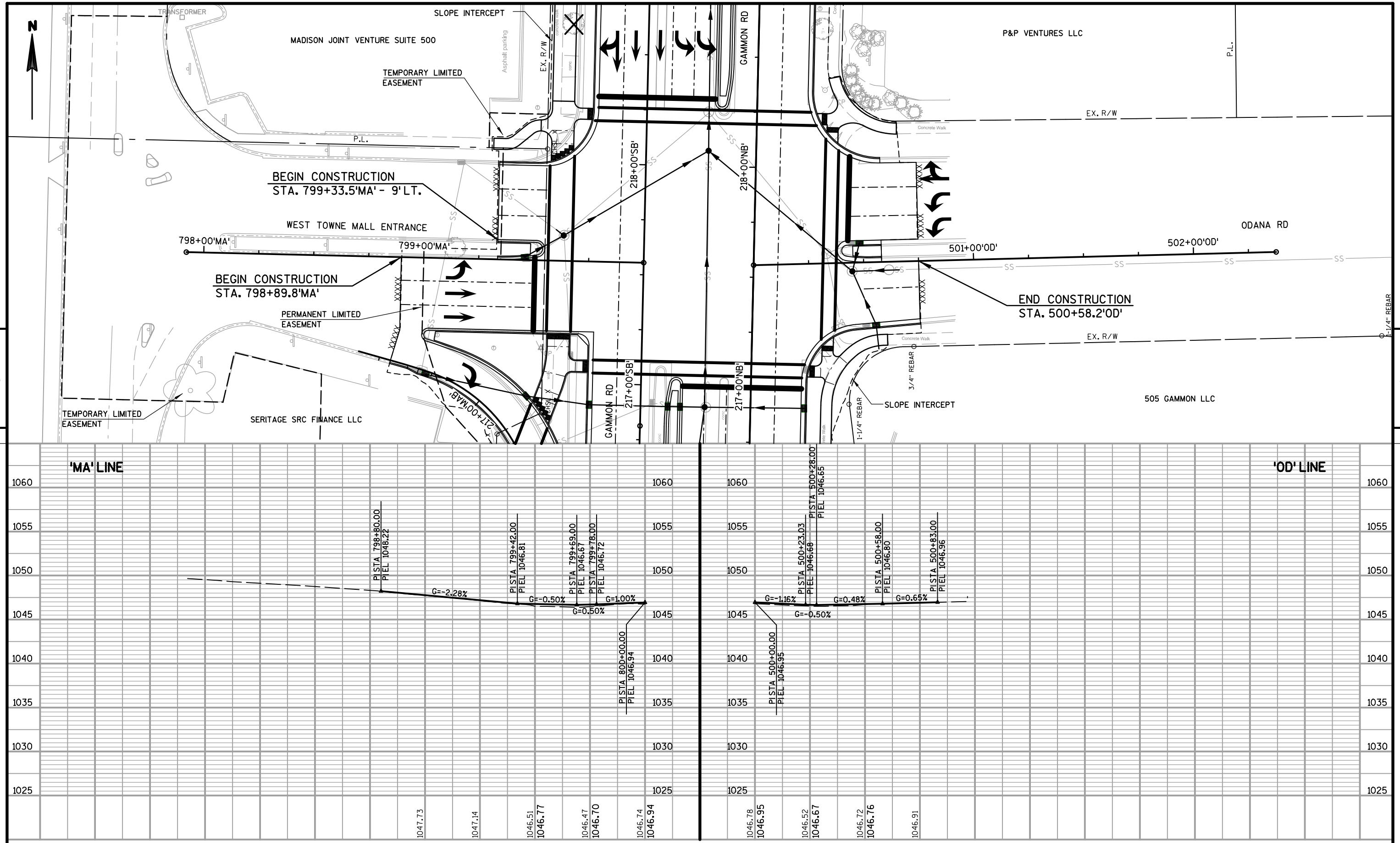
WISDOT/CADDS SHEET 30



PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	PLAN AND PROFILE - WB RAMPS SCALE, FEET 0 20 40	SHEET 307	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\050131_PP_WBF.dgn PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 30



PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	PLAN AND PROFILE - ODANA RD SCALE, FEET 0 20 40	SHEET 308	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\050140_PP_0D-MA.dgn PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 30

TEMPORARY LIMITED EASEMENT

BEGIN CONSTRUCTION
STA. 217+44.8'MAB'

PERMANENT LIMITED EASEMENT

SERITAGE SRC FINANCE LLC

SLOPE INTERCEPT

WEST TOWNE MALL ENTRANCE

799+00'MA'

P.L.

MADISON JOINT VENTURE SUITE 500

TEMPORARY LIMITED EASEMENT

Asphalt parking

34+00'BD'

RETAINING WALL R-13-343

35+00'BD'
L-V-R

214+00'SW'

215+00'SW'

216+00'SW'

216+00'MAB'

217+00'MAB'

CHSL X

217+00'SW'

EX. R/W

214+00'SB'

215+00'SB'

216+00'SB'

217+00'SB'

GAMMON RD

218+00'SB'

219+00'SB'

5

5

25.00' VC
K = 27

25.00' VC
K = 7

25.00' VC
K = 12

20.00' VC
K = 5

'MAB' LINE

1065

1060

1055

1050

1045

1040

1035

1030

G=-4.95%

G=-5.20%

G=-6.11%

G=-2.50%

G=-1.50%

G=-3.57%

G=0.50%

G=1.66%

PI STA 215+67.22
PI EL 1054.23

PI STA 215+62.07
PI EL 1054.48

PC STA 215+93.50
PC EL 1052.86

PI STA 216+06.00
PI EL 1052.21

PT STA 216+18.50
PT EL 1051.45

PC STA 216+30.00
PC EL 1050.74

PI STA 216+42.50
PI EL 1049.98

PI STA 216+55.00
PT EL 1049.67

PT STA 216+55.00
PT EL 1049.67

PC STA 216+75.00
PC EL 1049.37

PI STA 216+87.50
PI EL 1049.18

PT STA 217+00.00
PT EL 1048.73

PC STA 217+10.00
PC EL 1048.38

PI STA 217+20.00
PI EL 1048.02

LO STA 217+27.54
LO EL 1048.07

PT STA 217+30.00
PT EL 1048.07

PI STA 217+45.00
PI EL 1048.15

PI STA 217+54.20
PI EL 1048.30

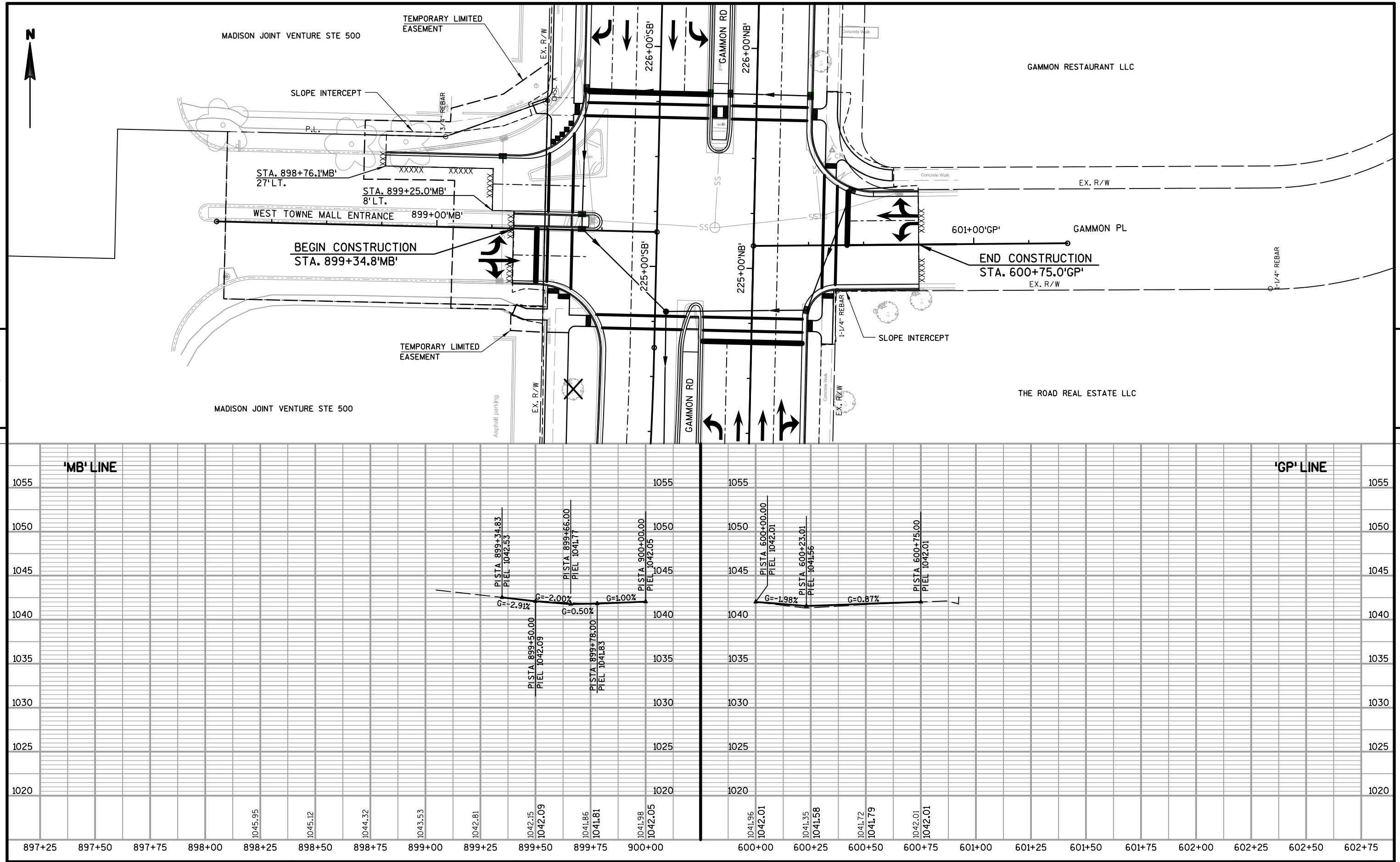
1054.13 1053.82
1052.92 1052.52
1051.62 1051.05
1050.33 1049.81
1049.39 1049.37
1048.83 1048.73
1047.97 1048.07
1048.23 1048.23

213+50 213+75 214+00 214+25 214+50 214+75 215+00 215+25 215+50 215+75 216+00 216+25 216+50 216+75 217+00 217+25 217+50 217+75 218+00 218+25 218+50 218+75 219+00 219+25 219+50

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	PLAN AND PROFILE - 'MAB' LINE SCALE, FEET 0 20 40	SHEET 309	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\050141_PP_MAB.dgn PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:40

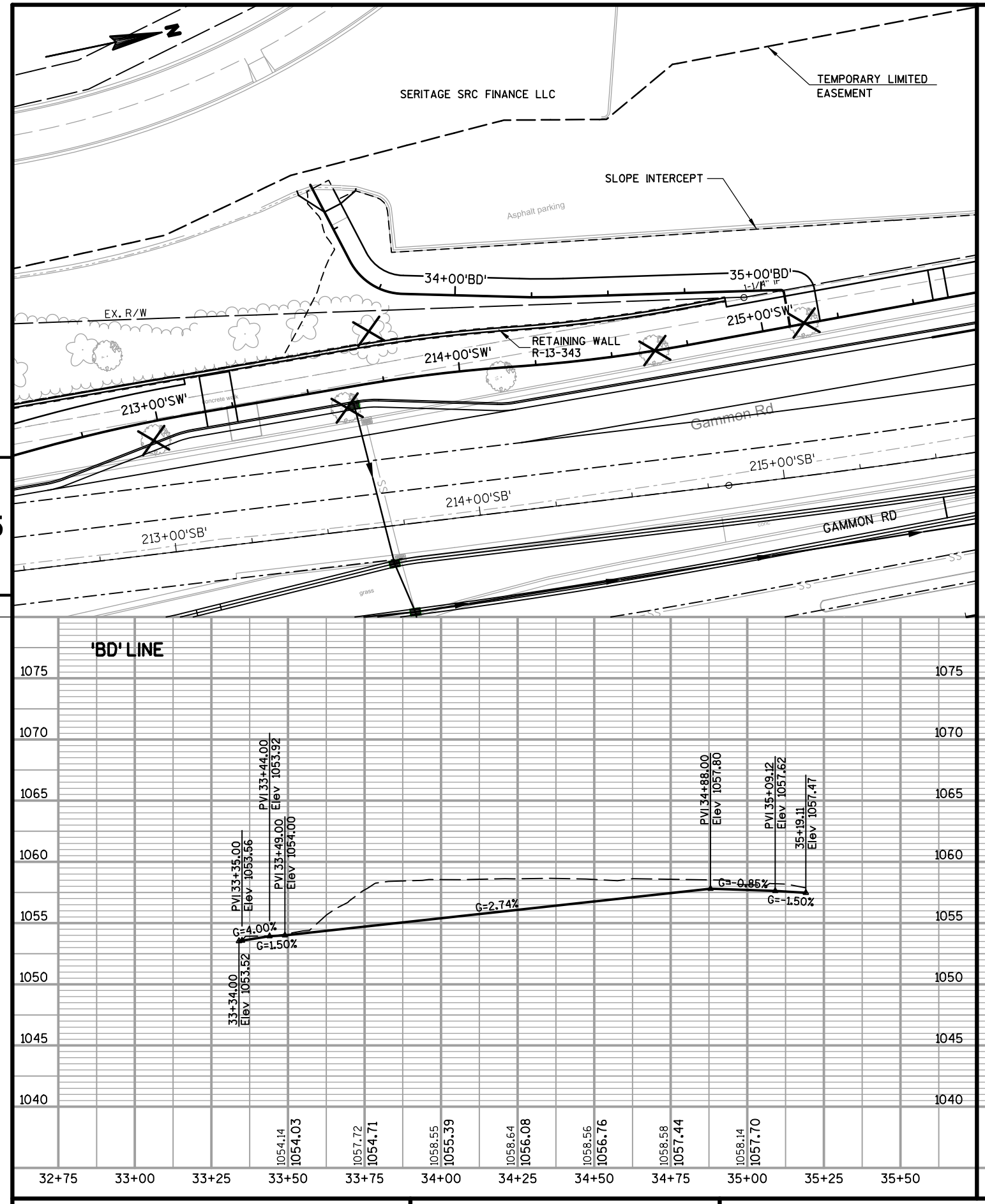
WISDOT/CADDS SHEET 30



PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	PLAN AND PROFILE - GAMMON PL	SCALE: FEET 0 200 400	SHEET 310	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\050145_PP_MB-GP.dgn PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 30



5

5

PROJECT NO: 5992-10-31/32 | HWY: GAMMON RD | COUNTY: DANE | PLAN AND PROFILE - 'BD' & 'BF' LINES SCALE, FEET 0 20 40 | SHEET 311 | E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\050146_PP_BD-BF.dgn | PLOT BY : kk226 | PLOT DATE : 10/4/2019 | PLOT SCALE : 1:40

WISDOT/CADDS SHEET 30

N

asphalt Drive

TEMPORARY LIMITED EASEMENT

PERMANENT LIMITED EASEMENT

SERITAGE SRC FINANCE LLC

Asphalt parking

SLOPE INTERCEPTS

WEST TOWNE MALL ENTRANCE

RETAINING WALL R-13-343

34+00'BD'

35+00'BD'

212+00'SW'

213+00'SW'

214+00'SW'

215+00'SW'

216+00'SW'

217+00'SW'

217+00'MAB'

216+00'MAB'

799+00'MA

212+00'SB'

213+00'SB'

214+00'SB'

215+00'SB'

216+00'SB'

217+00'SB'

GAMMON RD

212+00'NB'

213+00'NB'

5

5

'SW' LINE

ACCESS LANDING G=-1.50%

G=-3.00%

G=-3.81%

G=-5.00%

G=-3.10%

G=-1.50% BUS ACCESS LANDING

G=-5.00%

G=-5.00%

G=-1.50% ACCESS LANDING

G=-5.00%

G=-7.00%

G=-1.50% LANDING

G=-7.00%

G=-1.50% LANDING

G=-7.00%

G=-7.00%

G=-1.50% LANDING

G=-1.50%

BY-PASS LANE

G=-1.50%

G=-1.50%

G=-5.95%

G=-1.50%

G=-7.00%

MALL ACCESS

PI STA 211+65.00 PI EL 1071.94

PI STA 211+87.00 PI EL 1071.28

PI STA 212+12.00 PI EL 1070.91

PI STA 212+60.00 PI EL 1069.08

PI STA 213+15.00 PI EL 1066.33

PI STA 213+26.00 PI EL 1066.16

PI STA 213+50.00 PI EL 1065.42

PI STA 214+15.00 PI EL 1062.17

PI STA 215+09.00 PI EL 1057.47

PI STA 215+19.00 PI EL 1057.32

PI STA 215+43.72 PI EL 1056.08

PI STA 215+56.50 PI EL 1055.19

PI STA 215+61.50 PI EL 1055.11

PI STA 215+96.50 PI EL 1052.66

PI STA 216+01.50 PI EL 1052.59

PI STA 216+36.50 PI EL 1050.14

PI STA 216+41.50 PI EL 1050.06

PI STA 216+47.50 PI EL 1049.64

PI STA 216+52.32 PI EL 1049.57

PI STA 216+79.32 PI EL 1049.05

PI STA 216+80.61 PI EL 1049.00

PI STA 216+95.00 PI EL 1048.79

PI STA 217+04.00 PI EL 1048.25

PI STA 217+17.62 PI EL 1048.05

PI STA 217+23.62 PI EL 1047.63

1075 1070 1065 1060 1055 1050 1045 1040

211+50	211+75	212+00	212+25	212+50	212+75	213+00	213+25	213+50	213+75	214+00	214+25	214+50	214+75	215+00	215+25	215+50	215+75	216+00	216+25	216+50	216+75	217+00	217+25	217+50
1072.38	1071.82 1071.64	1071.18 1071.09	1070.50 1070.41	1069.78 1069.46	1069.02 1068.33	1068.14 1067.08	1066.15 1066.18	1066.02 1065.42	1064.82 1064.17	1063.52 1062.92	1062.19 1061.67	1060.88 1060.42	1059.59 1059.17	1058.34 1057.92	1057.06 1057.02	1055.78 1055.64	1054.55 1054.17	1053.29 1052.61	1051.92 1050.94	1050.53 1049.61	1050.23	1049.01 1048.49	1047.44	1046.64

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	PLAN AND PROFILE - SHARED USE PATH SCALE, FEET 0 20 40	SHEET 312	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\050147_PP_SW.dgn PLOT BY : kk226 PLOT DATE : 10/4/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 30

SERITAGE SRC FINANCE LLC

TEMPORARY LIMITED EASEMENT

EX. R/W

SLOPE INTERCEPT

GRADE BERM TO CONTAIN DITCHED WATER FROM EAST

RETAINING WALL R-13-338

RETAINING WALL R-13-339

GAMMON ROAD

TWENTY-SEVEN SAC SELF STORAGE LTD PARTNERSHIP

BOX CULVERT B-13-870

RETAINING WALL R-13-341

RETAINING WALL R-13-340

WB ON RAMP

WB OFF RAMP 197+00'WBF'

293+00'BP'

294+00'BP'

295+00'BP'

296+00'BP'

297+00'BP'

298+00'BP'

209+00'BC'

209+00'SW'

209+00'SB'

209+00'NB'

208+00'SB'

208+00'NB'

400+00'WBO'

399+00'WBO'

195+00'WBF'

196+00'WBF'

5

5

BEGIN PROJECT 5992-10-31
STA. 294+50.00'BP'
Y = 475315.514
X = 789215.636

'BF' LINE

K = 13
L = 50.00'

K = 100
L = 50.00'

K = 11
L = 50.00'

PVC 293+00.00 Elev 1060.93

PVI 293+25.00 Elev 1059.80

PVT 293+50.00 Elev 1059.68

PVI 293+75.00 Elev 1059.55

PVC 294+35.00 Elev 1060.15

PVI 294+60.00 Elev 1060.40

PVT 294+85.00 Elev 1060.53

PVC 298+25.00 Elev 1062.23

PVI 298+50.00 Elev 1062.35

295+96.32 1074.88

296+55.39 1074.94

G = -4.50%

G = -0.50%

G = 1.00%

G = 0.50%

1080 1075 1070 1065 1060 1055 1050 1045

1065.17	1064.06	1062.84	1062.21	1061.06	1060.70	1060.60	1061.36	1062.38	1064.38	1070.14	1074.50	1074.12	1074.65	1074.85	1074.89	1074.89	1074.67	1074.22	1073.86	1075.04	1075.79	1076.27	1077.80	1079.06
1063.18	1062.05	1060.93	1060.05	1059.68	1059.55	1059.80	1060.05	1060.29	1060.47	1060.60	1060.73	1060.85	1060.98	1061.10	1061.23	1061.35	1061.48	1061.60	1061.73	1061.85	1061.98	1062.10	1062.23	1062.63

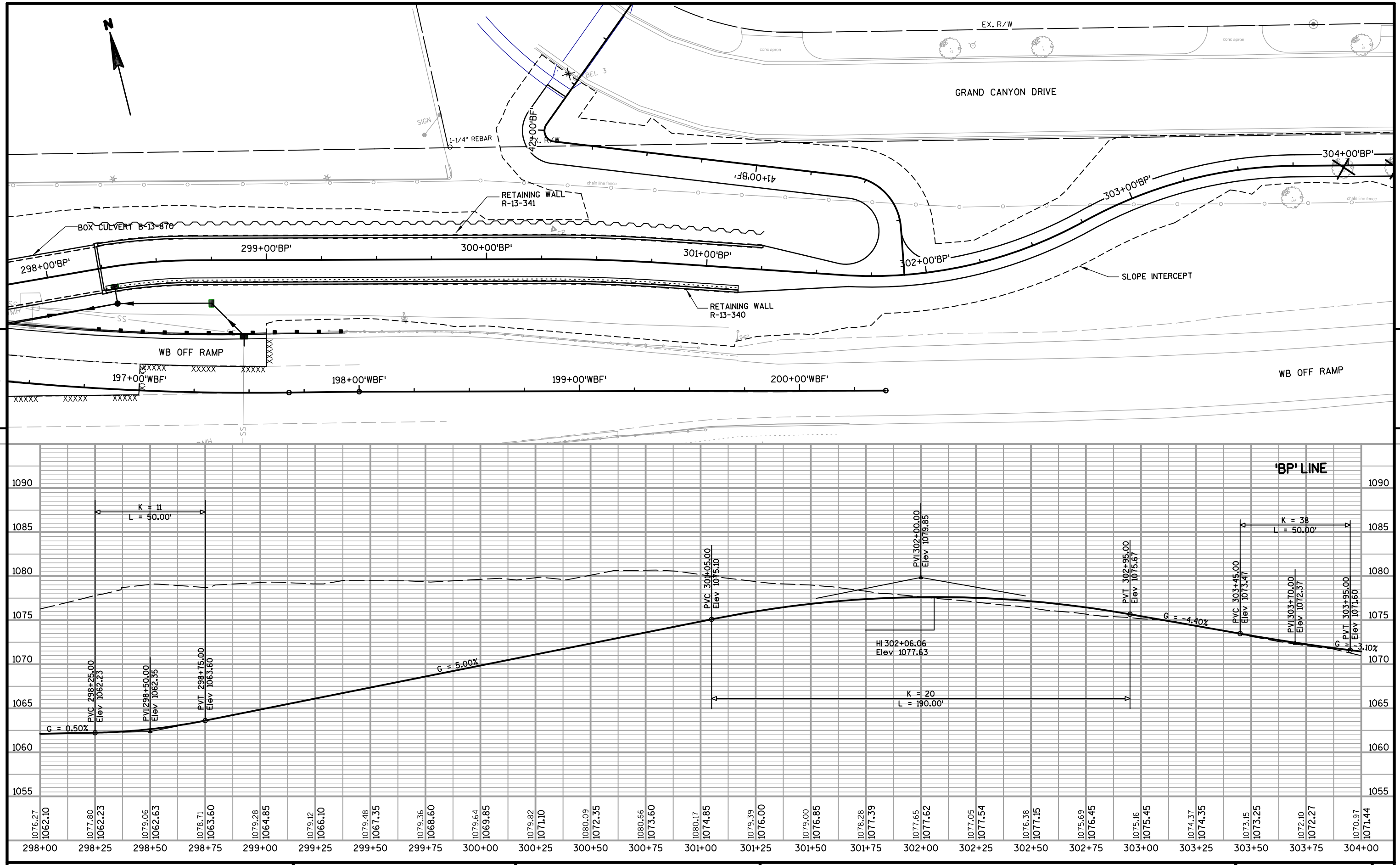
292+50 292+75 293+00 293+25 293+50 293+75 294+00 294+25 294+50 294+75 295+00 295+25 295+50 295+75 296+00 296+25 296+50 296+75 297+00 297+25 297+50 297+75 298+00 298+25 298+50

PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	PLAN AND PROFILE - BIKE PATH	SCALE, FEET 0 20 40	SHEET 313	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\050157_PP_BP.dgn

PLOT BY : kk226 PLOT DATE : 7/31/2019 PLOT SCALE : 1:40

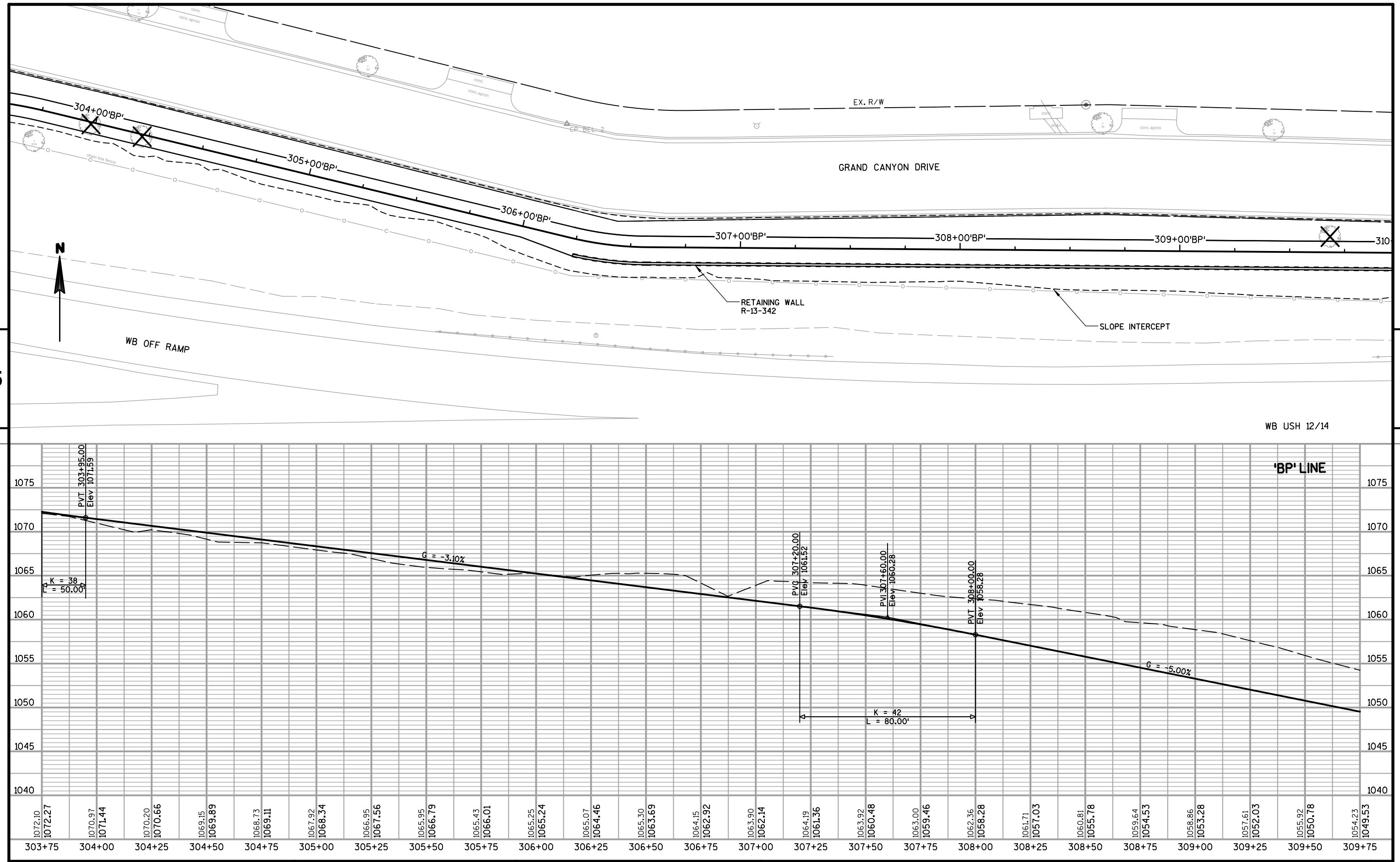
WISDOT/CADDS SHEET 30



PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	PLAN AND PROFILE - BIKE PATH SCALE, FEET 0 20 40	SHEET 314	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\050158_PP_BP.dgn PLOT BY : kk226 PLOT DATE : 7/31/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 30



PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	PLAN AND PROFILE - BIKE PATH SCALE, FEET 0 20 40	SHEET 315	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\050159_PP_BP.dgn PLOT BY : kk226 PLOT DATE : 7/31/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 30

N

EX. R/W

GRAND CANYON DRIVE

Grand Canyon Dr

conc apron

CP

EX. R/W

310+00'BP'

311+00'BP'

312+00'BP'

313+00'BP'

314+00'BP'

50+00'BH'

RETAINING WALL
R-13-342

SLOPE INTERCEPT

EXISTING BIKE PATH EASEMENT

MADISON HOSPITALITY PTNR & RNAGALA LLC ET AL

TEMPORARY LIMITED
EASEMENT

TEMPORARY LIMITED
EASEMENT

EXISTING BIKE PATH EASEMENT

PERMANENT LIMITED
EASEMENT

EXISTING BIKE PATH EASEMENT

12+00'BJ'

5

WB USH 12/14

5

WB USH 12/14

'BP' LINE

END PROJECT 5992-10-31
STA. 314+75.79'BP'

K = 26
L = 100.00'

K = 18
L = 60.00'

G = -5.00%

G = -1.15%

G = 2.10%

PVC 311+70.00
Elev 1039.78

PVI 312+20.00
Elev 1037.28

PVT 312+70.00
Elev 1036.71

PVC 313+55.00
Elev 1035.73

LOI 313+76.18
Elev 1035.61

PVI 313+85.00
Elev 1036.39

PVT 314+15.00
Elev 1036.02

314+75.00
Elev 1037.28

1055.92	1054.23	1052.74	1051.28	1048.82	1045.94	1045.13	1044.04	1044.41	1043.73	1042.98	1041.71	1040.51	1038.76	1038.09	1038.34	1037.88	1037.75	1035.95	1036.10	1036.82	1037.28
1050.78	1049.53	1048.28	1047.03	1045.78	1044.53	1043.28	1042.03	1040.78	1039.53	1038.45	1037.61	1037.01	1036.65	1036.36	1036.08	1035.79	1035.61	1035.77	1036.23	1036.75	1037.28

309+50 309+75 310+00 310+25 310+50 310+75 311+00 311+25 311+50 311+75 312+00 312+25 312+50 312+75 313+00 313+25 313+50 313+75 314+00 314+25 314+50 314+75 315+00 315+25 315+50

1060 1055 1050 1045 1040 1035 1030 1025

PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	PLAN AND PROFILE - BIKE PATH	SCALE, FEET 0 20 40	SHEET 316	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\050160_PP_BP.dgn

PLOT BY : kk226 PLOT DATE : 7/31/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 30

SERITAGE SRC FINANCE LLC

asphalt Drive

TEMPORARY LIMITED EASEMENT

EX. R/W

RETAINING WALL R-13-338

RETAINING WALL R-13-339

RETAINING WALL R-13-343

SLOPE INTERCEPT

BOX CULVERT B-13-870

GAMMON ROAD

294+00'BP'

295+00'BP'

399+00'WBO'

400+00'WBO'

209+00'BC'

210+00'BC'

211+00'BC'

212+00'SW'

213+00'SW'

209+00'SW'

210+00'SW'

211+00'SW'

209+00'SB'

210+00'SB'

211+00'SB'

212+00'SB'

213+00'SB'

213+00'NB'

5

5

'BC' LINE

70.00' VC
K = 22

100.00' VC
K = 23

PI STA 208+44.00
PI EL 1060.69

PC STA 208+95.00
PC EL 1061.48

PI STA 209+30.00
PI EL 1062.03

PT STA 209+65.00
PT EL 1063.70

PC STA 210+75.00
PC EL 1068.96

PI STA 211+25.00
PI EL 1071.34

PT STA 211+76.00
PT EL 1071.59

PI STA 211+85.00
PI EL 1071.64

PI STA 211+99.46
PI EL 1071.37

PI STA 212+09.46
PI EL 1071.22

G=1.57%

G=4.78%

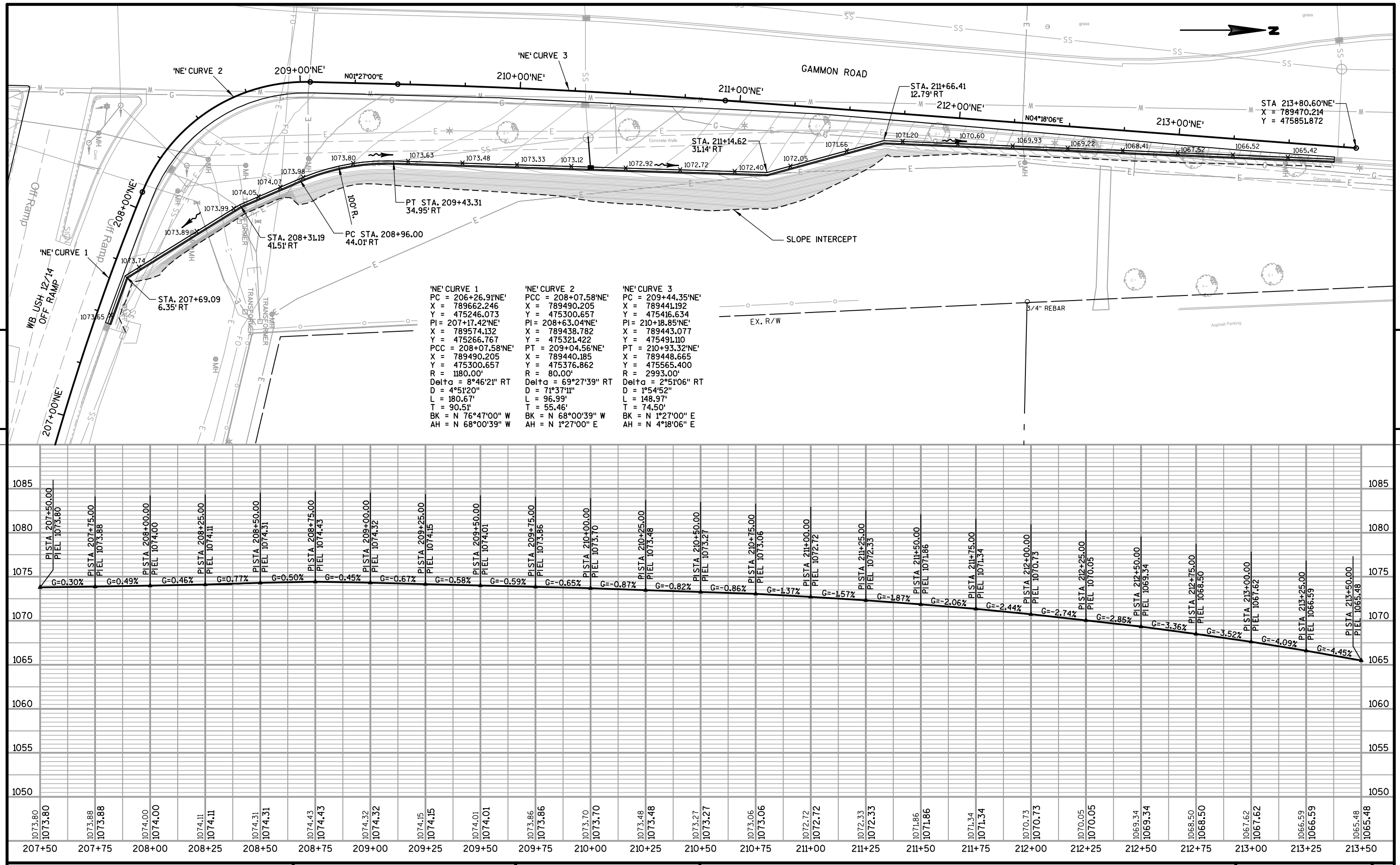
G=0.50%

G=-1.91%

G=-1.49%

1080
1075
1070
1065
1060
1055
1050
1045

| | | |



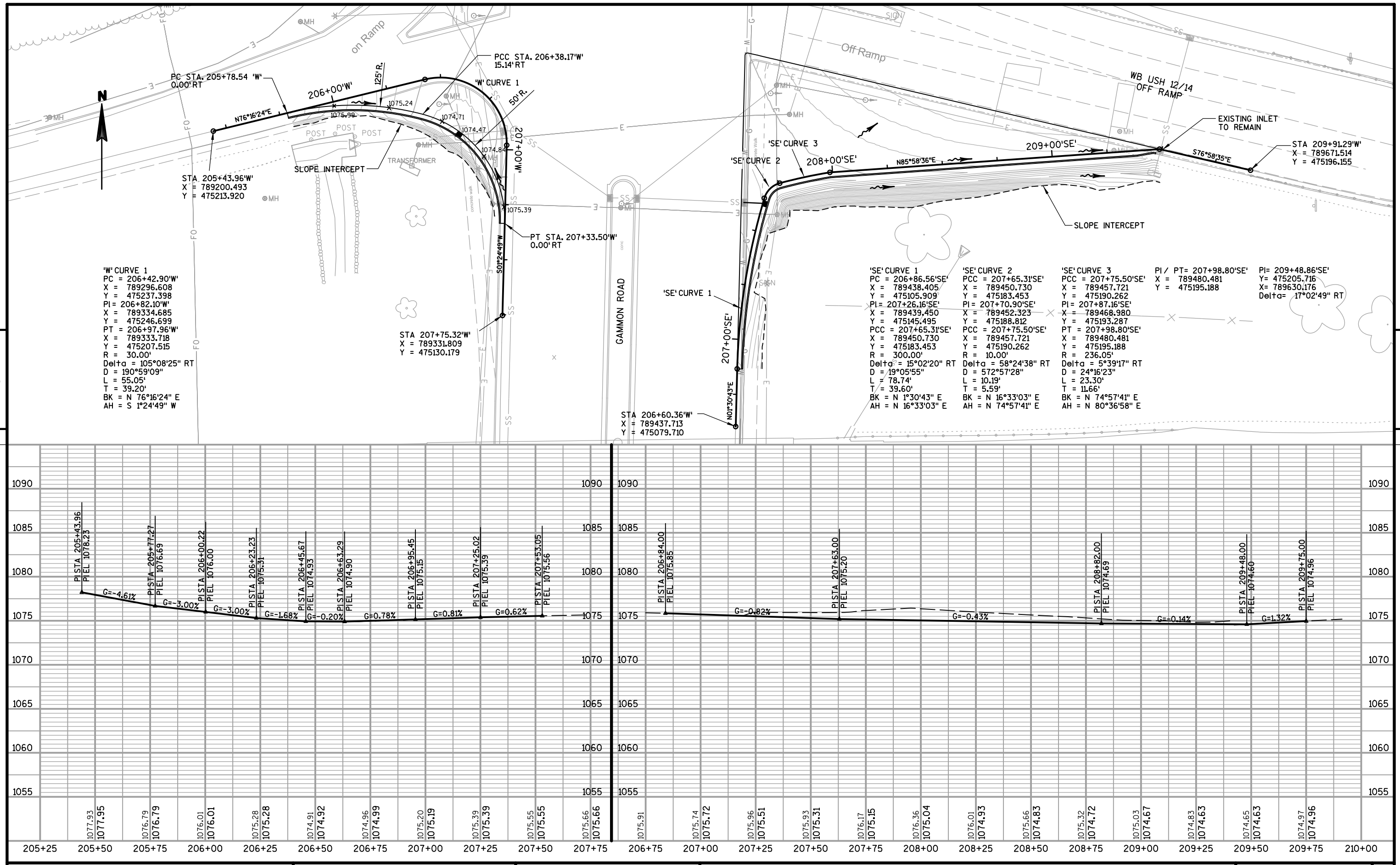
'NE' CURVE 1
PC = 206+26.91'NE'
X = 789662.246
Y = 475246.073
PI = 207+17.42'NE'
X = 789574.132
Y = 475266.767
PCC = 208+07.58'NE'
X = 789490.205
Y = 475300.657
R = 1180.00'
Delta = 8°46'21" RT
D = 4°51'20"
L = 180.67'
T = 90.51'
BK = N 76°47'00" W
AH = N 68°00'39" W

'NE' CURVE 2
PCC = 208+07.58'NE'
X = 789490.205
Y = 475300.657
PI = 208+63.04'NE'
X = 789438.782
Y = 475321.422
PT = 209+04.56'NE'
X = 789440.185
Y = 475376.862
R = 80.00'
Delta = 69°27'39" RT
D = 71°37'11"
L = 96.99'
T = 55.46'
BK = N 68°00'39" W
AH = N 1°27'00" E

'NE' CURVE 3
PC = 209+44.35'NE'
X = 789441.192
Y = 475416.634
PI = 210+18.85'NE'
X = 789443.077
Y = 475491.110
PT = 210+93.32'NE'
X = 789448.665
Y = 475565.400
R = 2993.00'
Delta = 2°51'06" RT
D = 1°54'52"
L = 148.97'
T = 74.50'
BK = N 1°27'00" E
AH = N 4°18'06" E

PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	PLAN AND PROFILE - TEMPORARY WIDENING SCALE, FEET 0 20 40	SHEET 318 E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\050170_PP_Stage Widening.dgn
PLOT BY : kk226 PLOT DATE : 7/31/2019 PLOT SCALE : 1:40
WISDOT/CADDS SHEET 30



PROJECT NO: 5992-10-32	HWY: GAMMON RD	COUNTY: DANE	PLAN AND PROFILE - TEMPORARY WIDENING SCALE, FEET 0 20 40	SHEET 319	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\050171_PP_Stage Widening.dgn

PLOT BY : kk226 PLOT DATE : 7/31/2019 PLOT SCALE : 1:40

WISDOT/CADDS SHEET 30

Standard Detail Drawing List

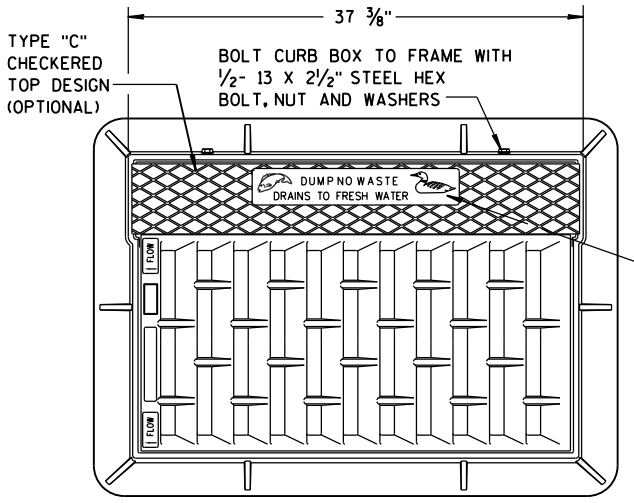
08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08B10-02	MANHOLES 3X3-FT, 4X4-FT, 5X5-FT AND 6X6-FT
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	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
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09A01-13B	AT-GRADE SIDE ROAD INTERSECTION, TYPE "A1" & "A2"
09B02-10	CONDUIT
09B16-01	PULL BOX NON-CONDUCTIVE
09E08-08A	TYPE 9 POLE 15'-30' MONOTUBE ARM
09E08-08C	TYPE 12 POLE 35'-55' MONOTUBE ARM
09G01-04A	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04B	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04C	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04D	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04E	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04F	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04G	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09H04-01	2 CIRCUIT ELECTRICAL SERVICE METER BREAKER PEDESTAL AND BREAKER DISCONNECT BOX
10A18-05A	LUMINAIRE ARMS, SINGLE MEMBER 6-INCH CLAMP
11B02-02	CONCRETE MEDIAN NOSE
12A03-10	NAME PLATE (STRUCTURES)
12A04-03	STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES & OVERHEAD SIGN SUPPORTS & TRAFFIC SIGNALS
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-09	URBAN DOWELED CONCRETE PAVEMENT
13C18-07A	CONCRETE PAVEMENT JOINTING
13C18-07C	CONCRETE PAVEMENT JOINT TYPES
13C18-07D	CONCRETE PAVEMENT JOINT TYPES AT UTILITY FIXTURES
13C19-01	HMA LONGITUDINAL JOINTS
14B07-15A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-02A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B42-06A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B47-02A	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02B	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02C	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
15B03-15A	FENCE CHAIN LINK
15B03-15B	FENCE CHAIN LINK
15C02-07A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-07B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-07C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C02-07D	ON RAMP LANE CLOSURE
15C02-07E	OFF RAMP LANE CLOSURE

6

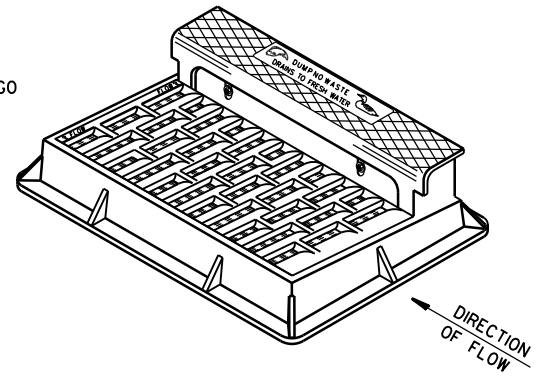
Standard Detail Drawing List

15C02-07F	ADVANCED WIDTH RESTRICTION SIGNING
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
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)
15C11-07A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-04	MEDIAN ISLAND MARKING
15C19-05A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-05B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C19-05C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C23-04	30" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE
15C24-04	36" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE
15C27-03A	DOUBLE ARROW WARNING SIGN PLACEMENT
15C27-03B	PAVEMENT MARKING (ISLANDS)
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D12-07A	TRAFFIC CONTROL, LANE CLOSURE
15D16-04	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D20-04	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-06	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D22-03	TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D23-06	TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D29-05	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD
15D30-05A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-05B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-05C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D40-01	TRAFFIC CONTROL, LANE SHIFT, MULTILANE DIVIDED OR ONE WAY ROAD
15D41-01	TRAFFIC CONTROL, MULTIPLE LANE SHIFT, MULTILANE DIVIDED ROAD
16A01-07	LANDMARK REFERENCE MONUMENTS AND COVERS

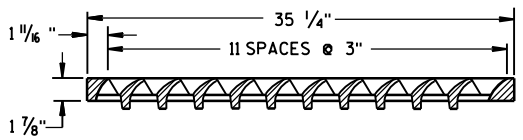
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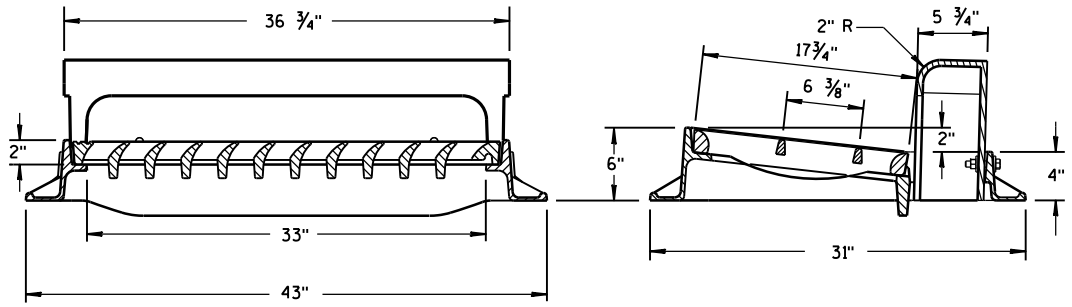


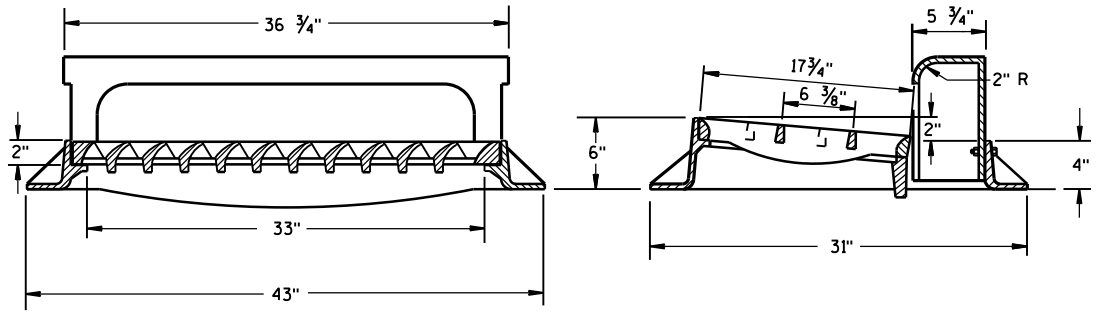
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

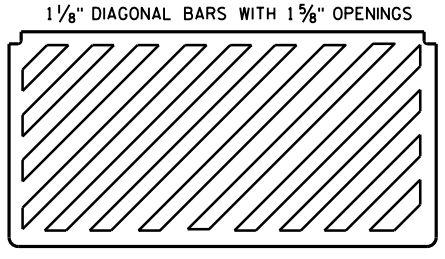






TYPE "H"

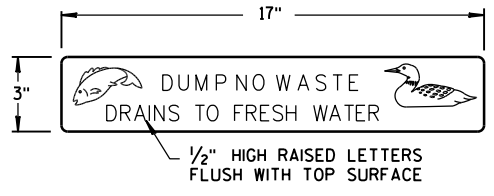
NOTE: EITHER CASTING IS ACCEPTABLE



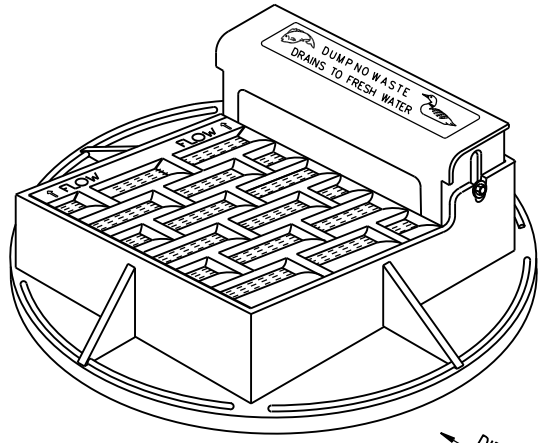
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

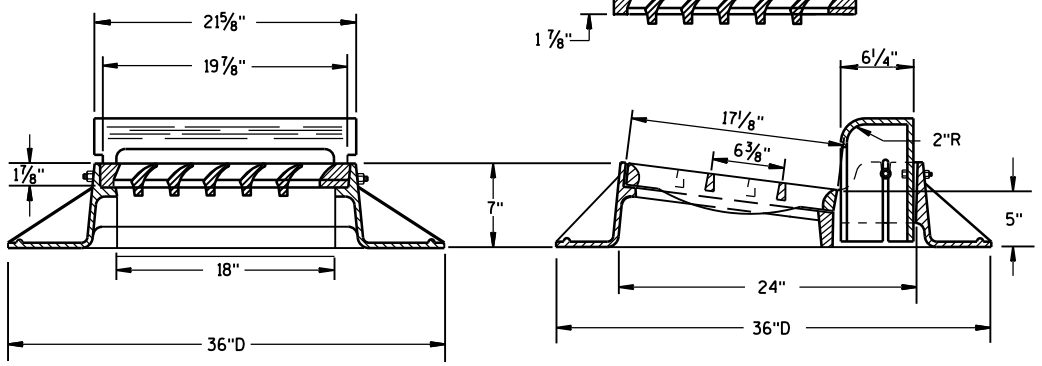


LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

NOTE:
GRATE IS REVERSIBLE.



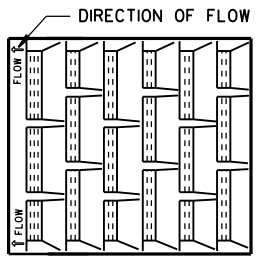
TYPE "A"

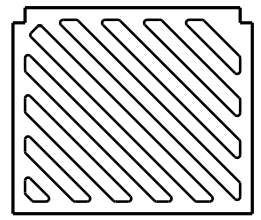
GENERAL NOTES

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.

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.

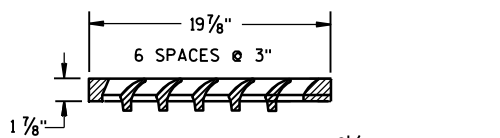


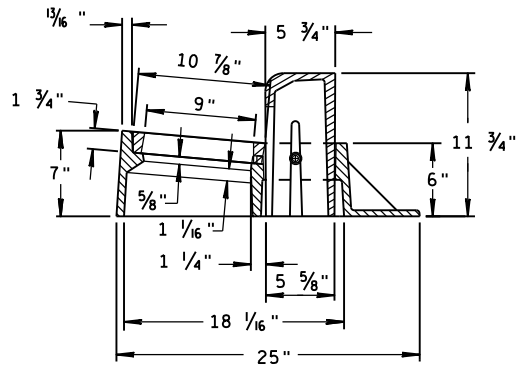


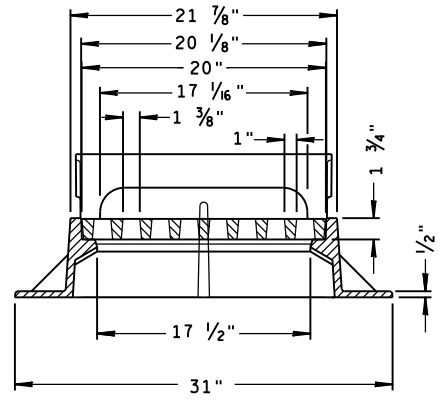
SPECIAL GRATE FOR TYPE "A" COVER

(MEASURES 19 3/4" X 17" X 1 7/8")

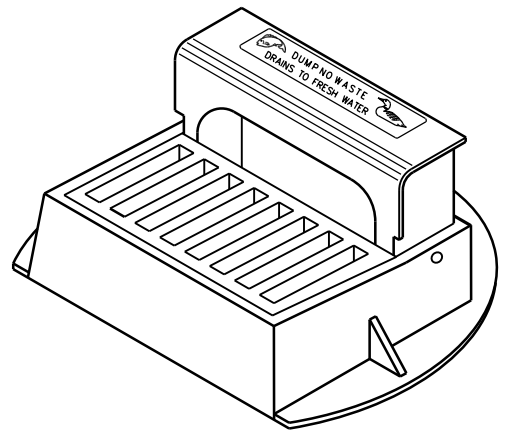
(NOTED AS TYPE A-S ON DRAINAGE TABLE)







TYPE "Z"



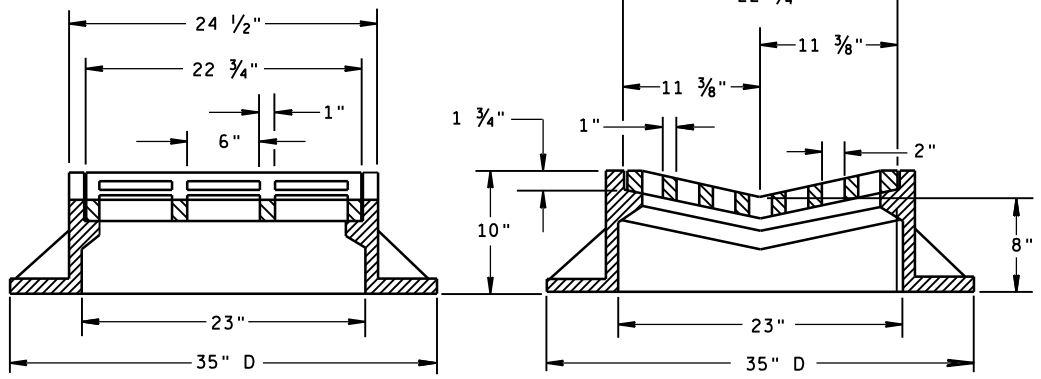
INLET COVERS
TYPE A, H, A-S, H-S & Z

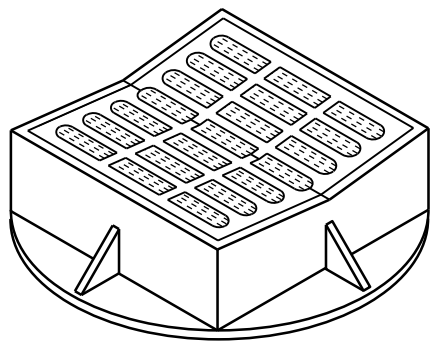
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

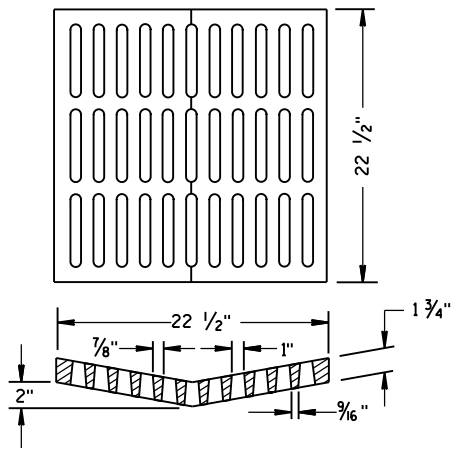
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S.D.D. 8 A 5-19a



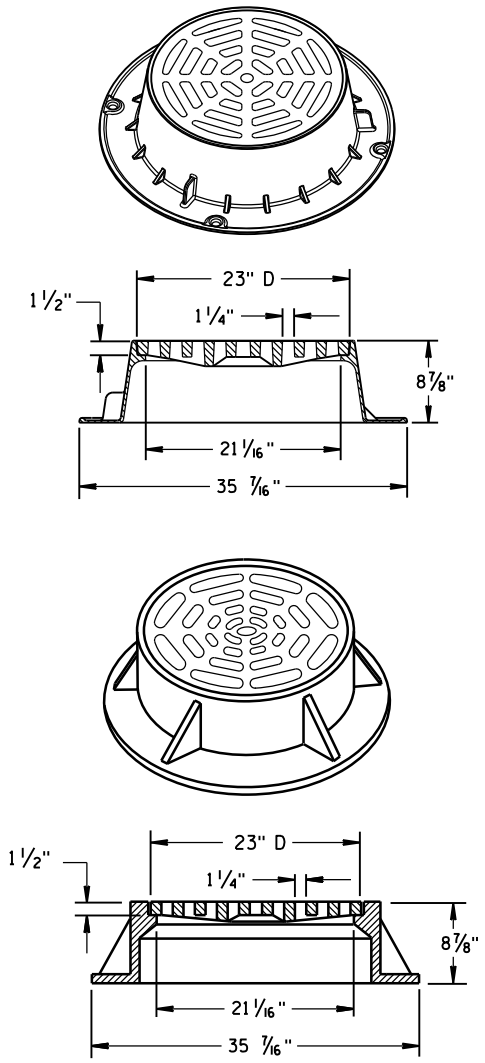


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

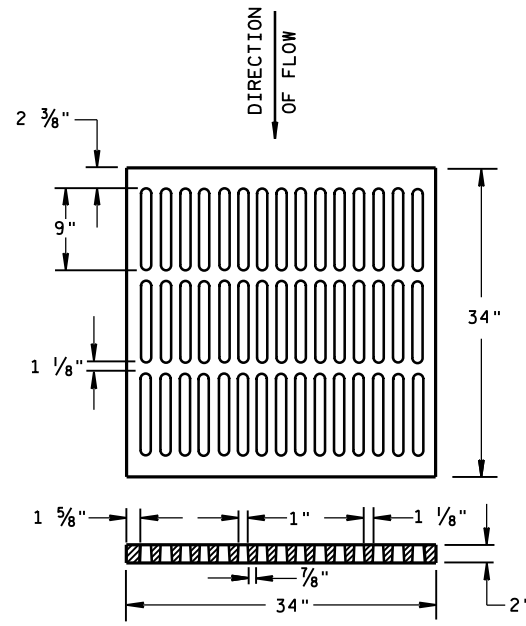
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

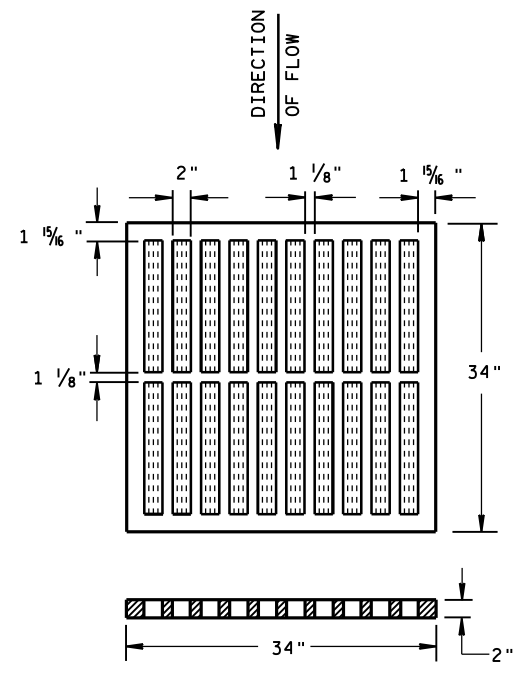
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



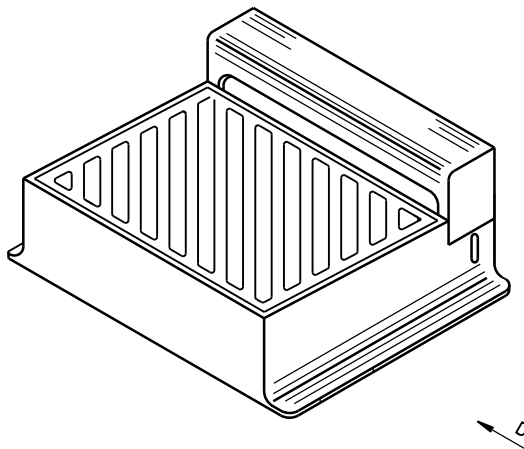
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

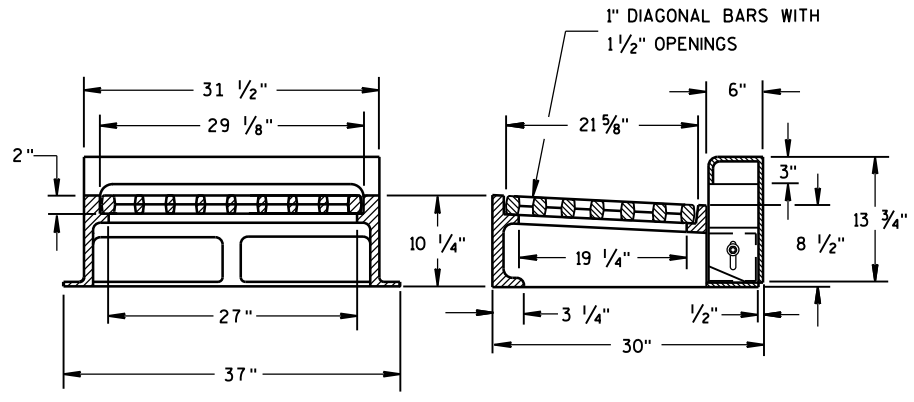


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

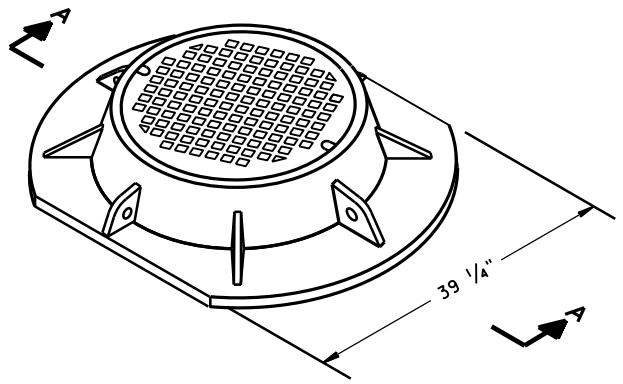
INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM

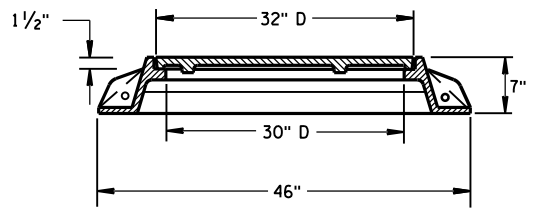
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

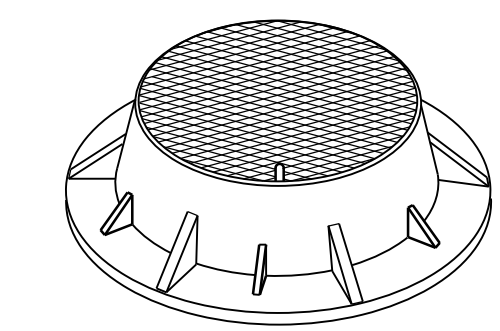
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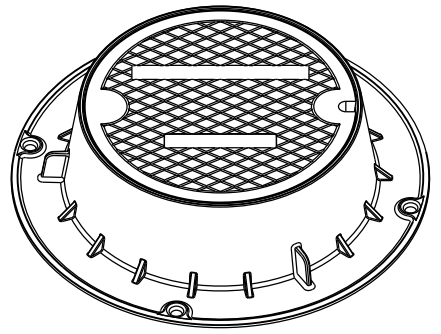
S.D.D. 8 A 5-19b

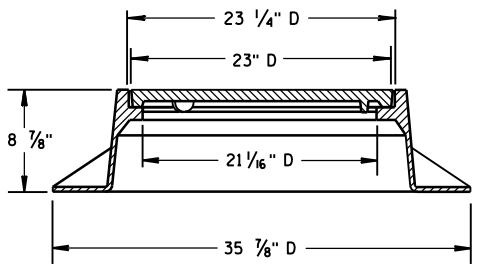


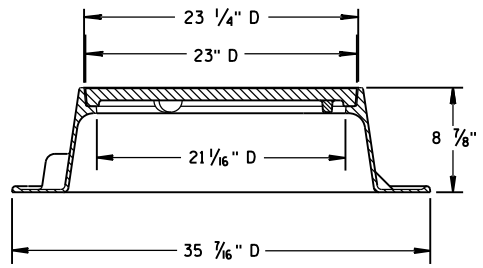


SECTION A-A
TYPE "K"









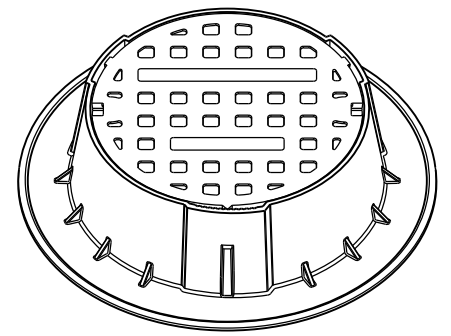
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

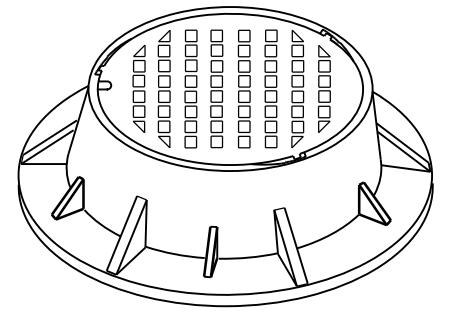
GENERAL NOTES

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.

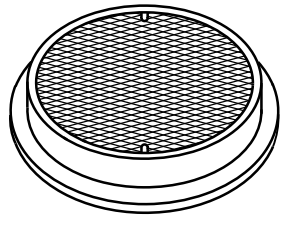
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

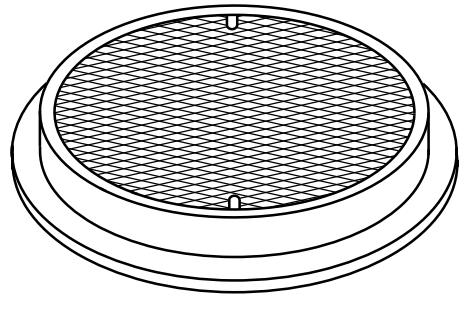
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

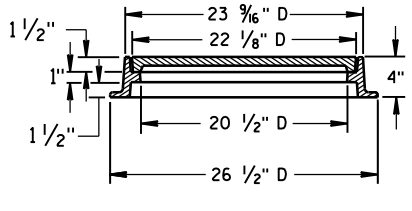




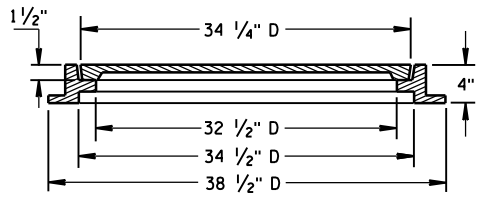
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



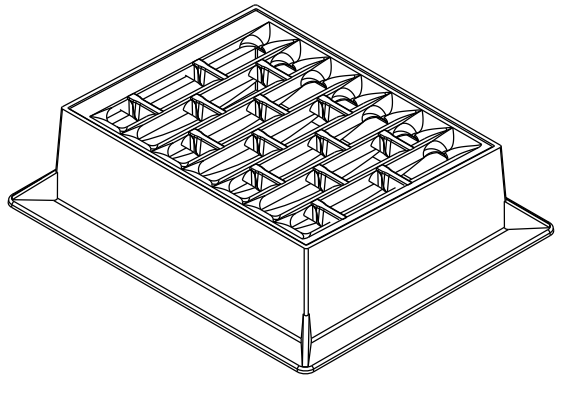


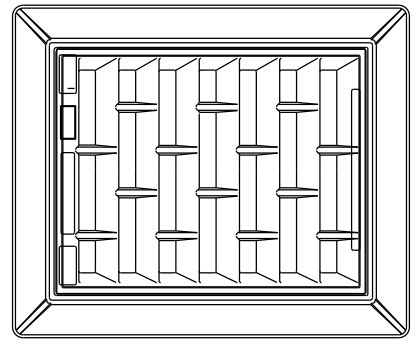


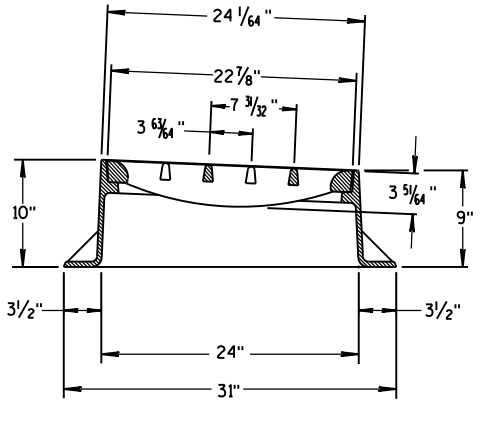
TYPE "L"

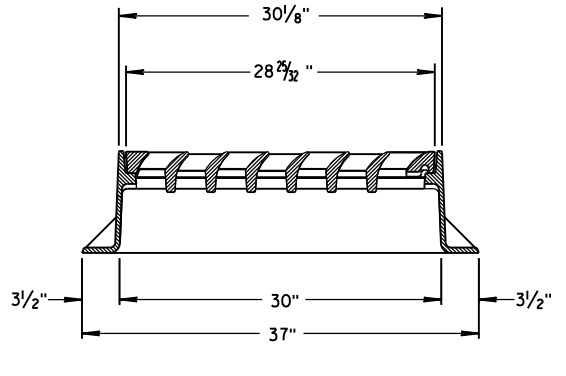


TYPE "M"









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

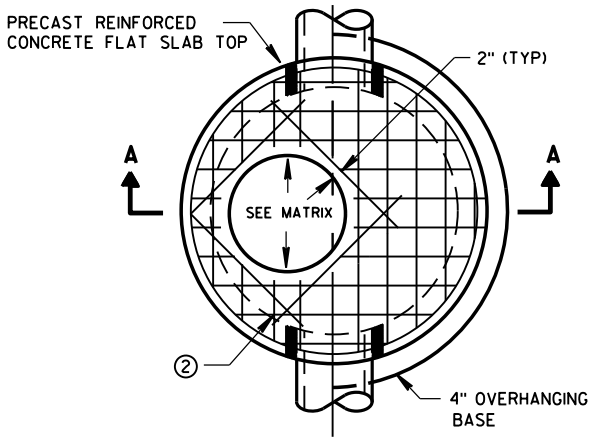
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

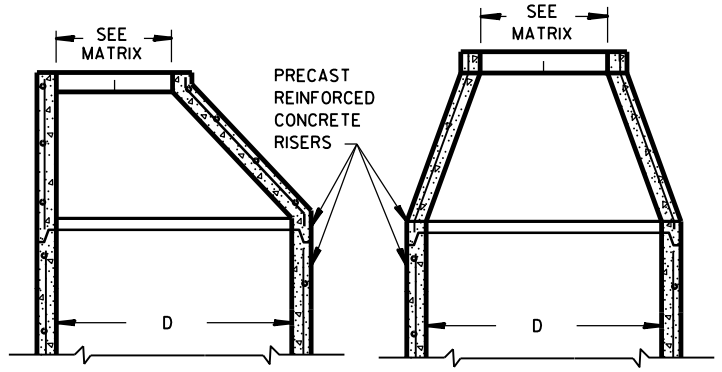
S.D.D. 8 A 5-19d

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S.D.D. 8 A 5-19d

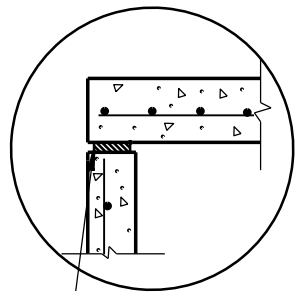


PLAN VIEW CIRCULAR OPENING

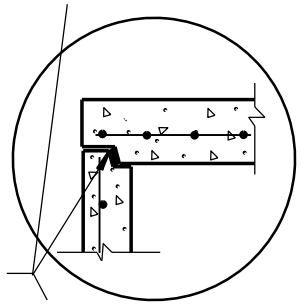


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

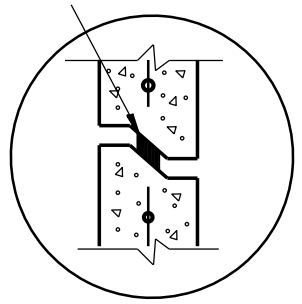


TOP WITH PLAIN END JOINT



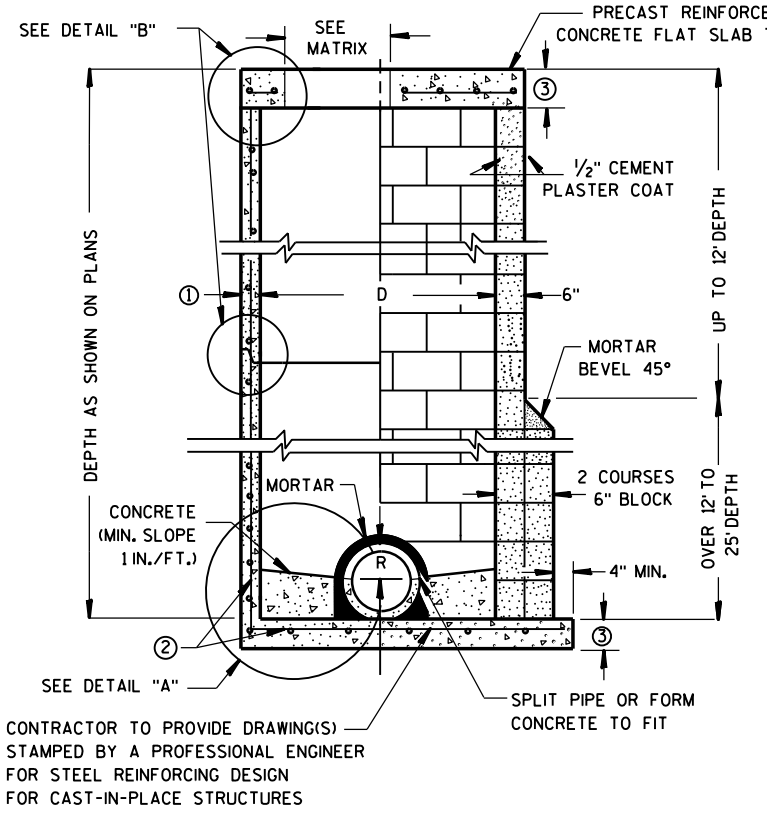
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



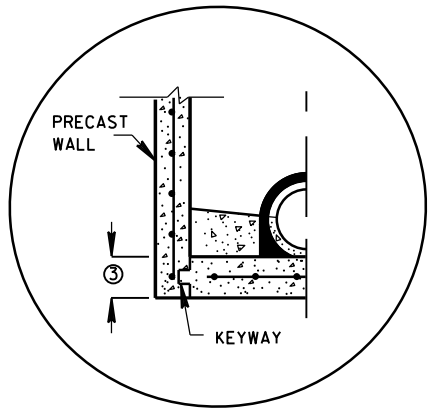
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

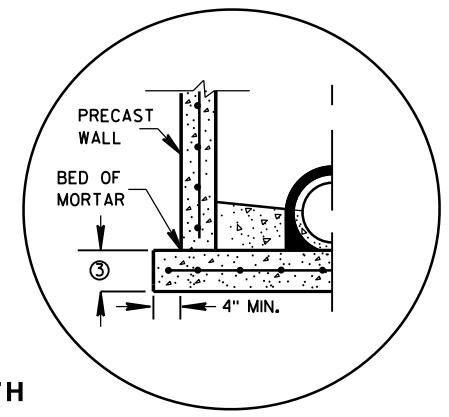


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

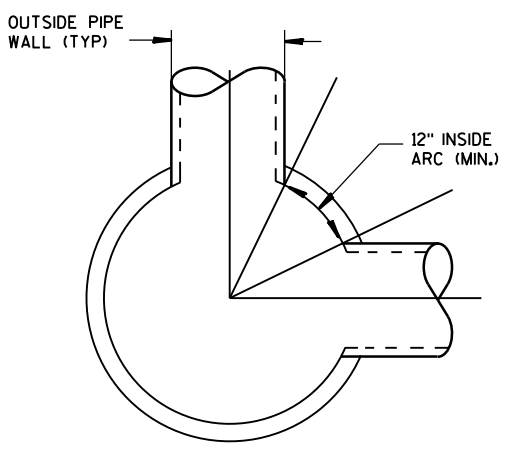


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

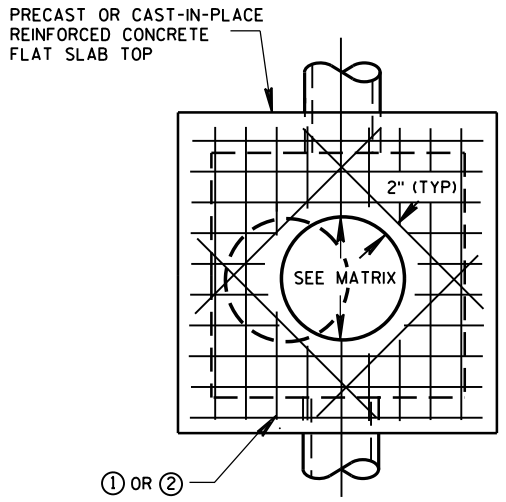
APPROVED

Sept., 2016
DATE

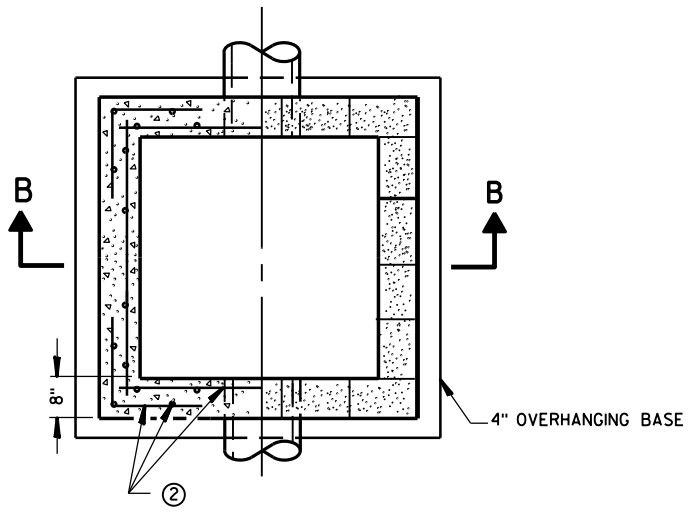
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

FHWA

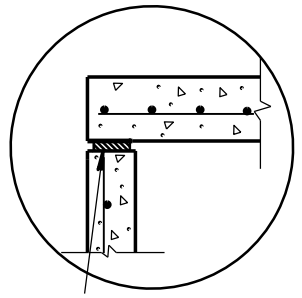
MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER



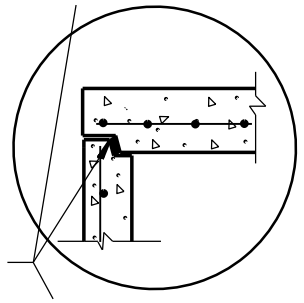
PLAN VIEW
CIRCULAR OPENING



SECTION A-A
PLAN VIEW

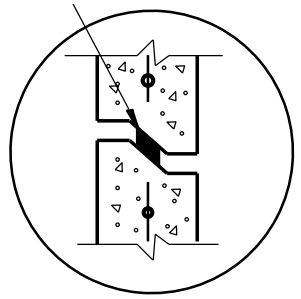


TOP WITH PLAIN END JOINT



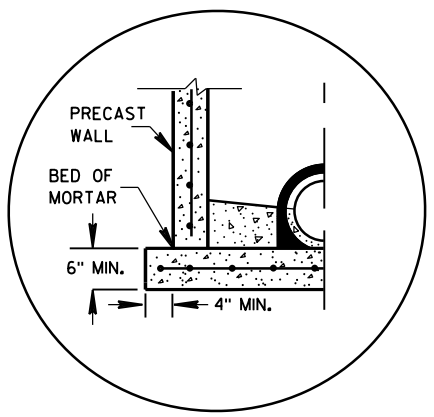
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

SECTION B-B

PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE

CAST-IN-PLACE REINFORCED CONCRETE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE

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.

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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 FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

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.

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CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN WIDTH.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "C". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

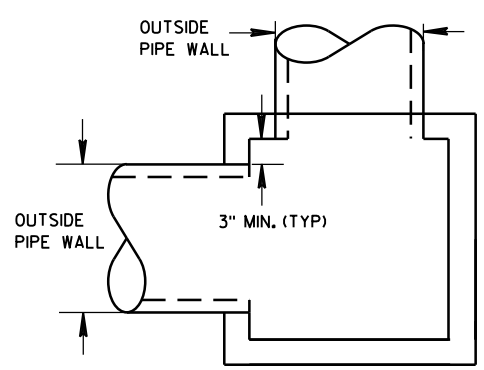
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (W) (IN)	LENGTH (L) (IN)
3X3-FT	24	24
4X4-FT	30	30
5X5-FT	42	42
6X6-FT	54	54



DETAIL "C"

SQUARE MANHOLES W/ FLAT TOP

MANHOLES 3X3-FT, 4X4-FT, 5X5-FT AND 6X6-FT

MANHOLES 3X3-FT, 4X4-FT 5X5-FT AND 6X6-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

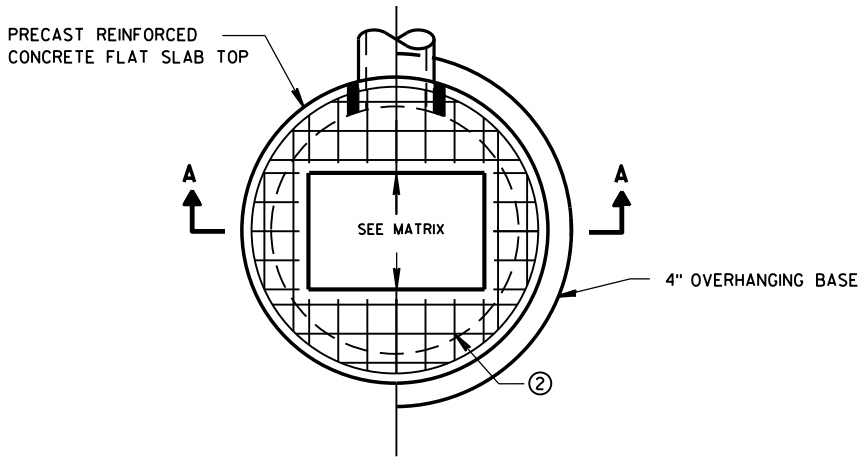
APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

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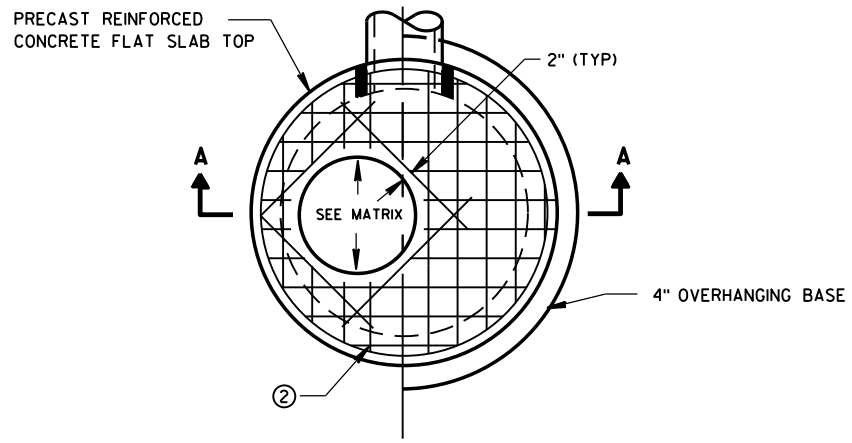
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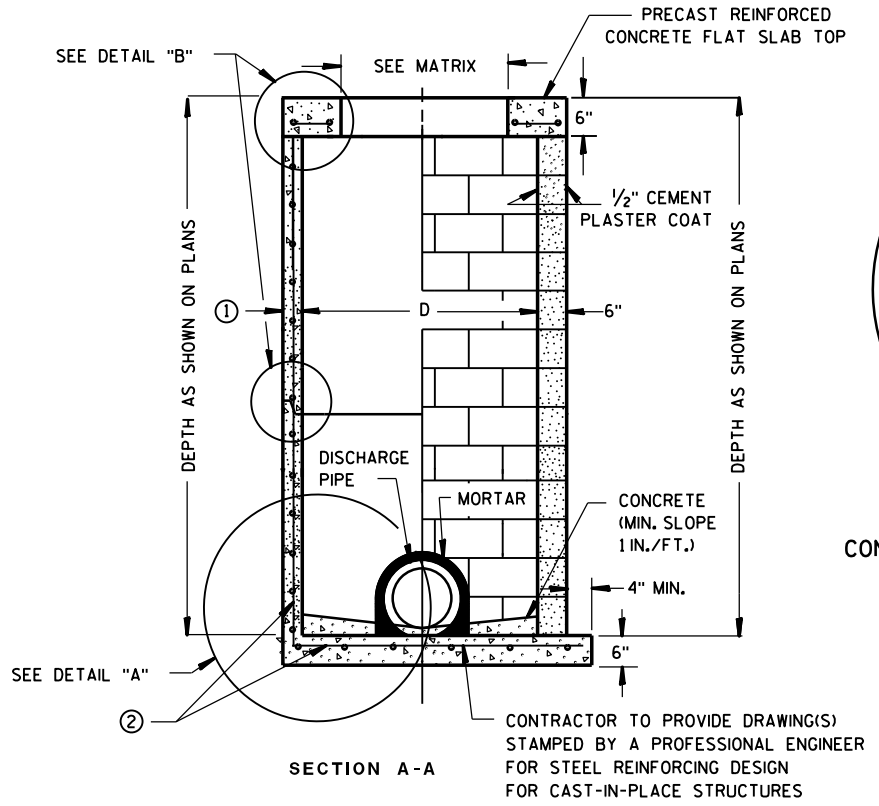
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PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

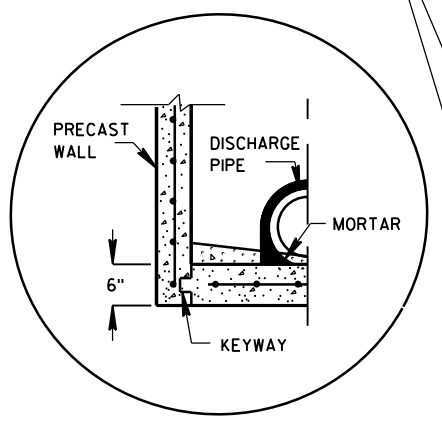


SECTION A-A

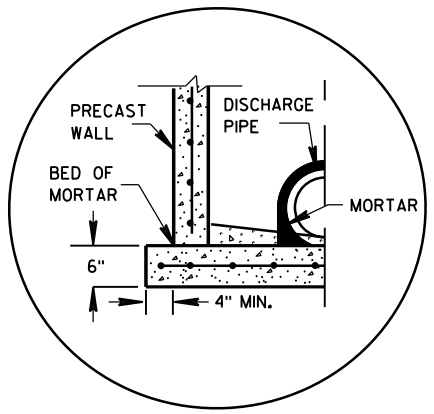
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

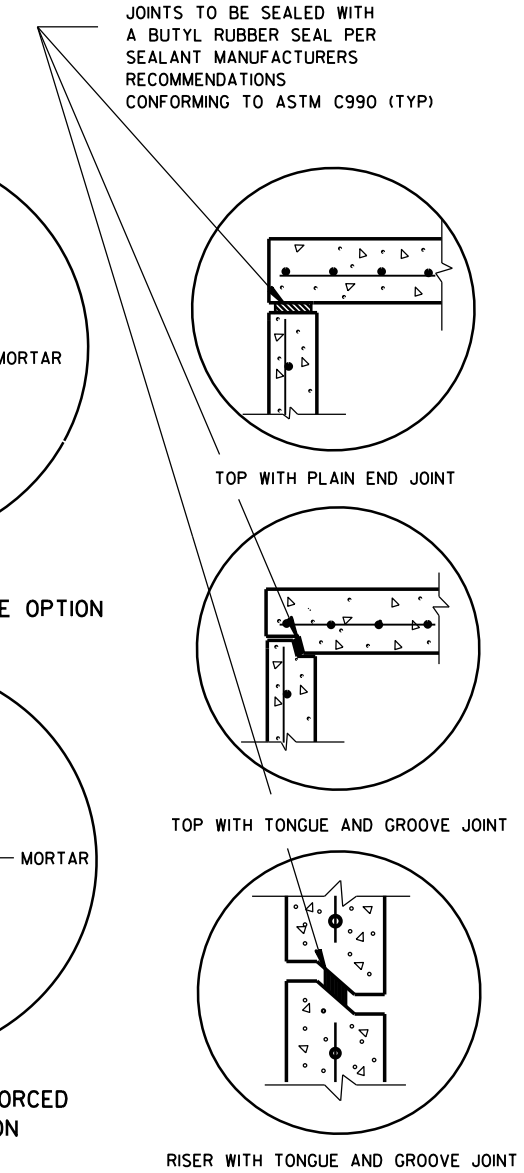


PRECAST REINFORCED
CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED
CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

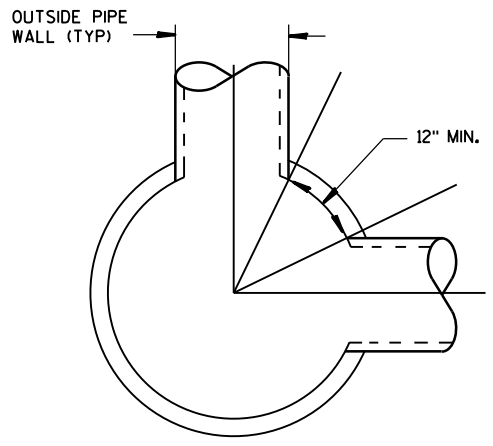
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

INLETS 3-FT
AND 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

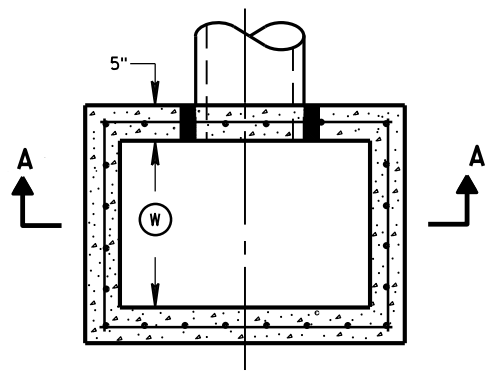
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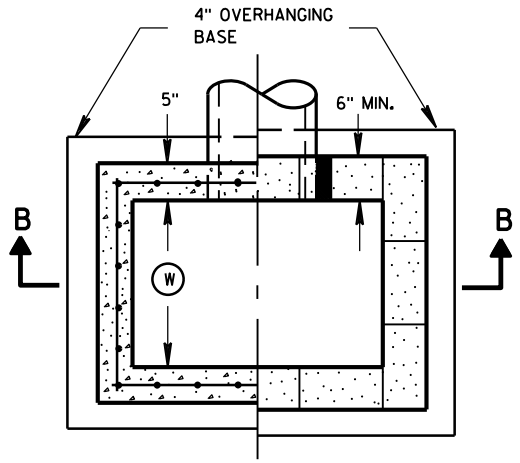
S.D.D. 8 C 6-2

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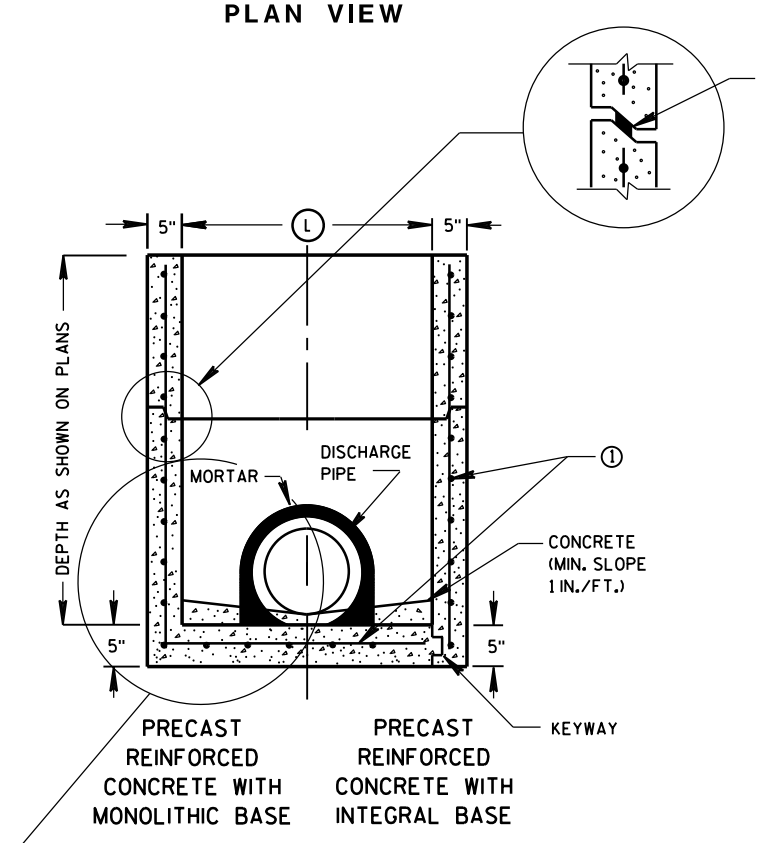
S.D.D. 8 C 6-2



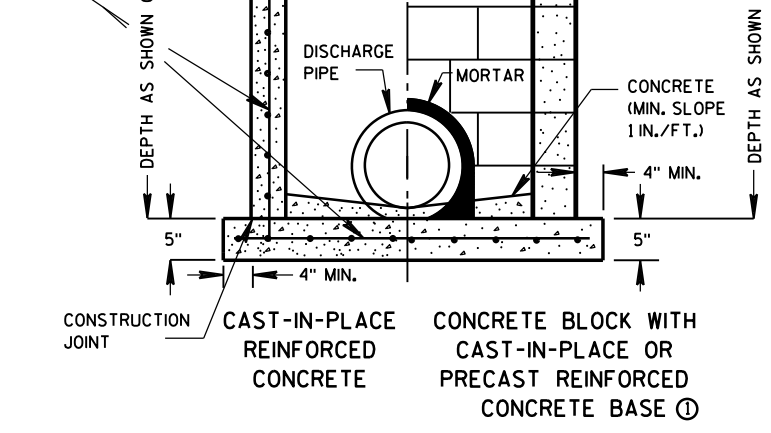
PLAN VIEW



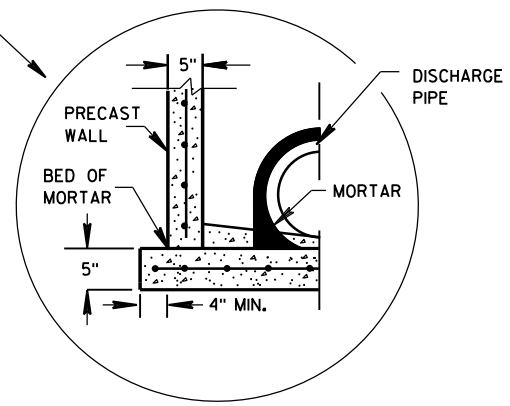
PLAN VIEW



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.

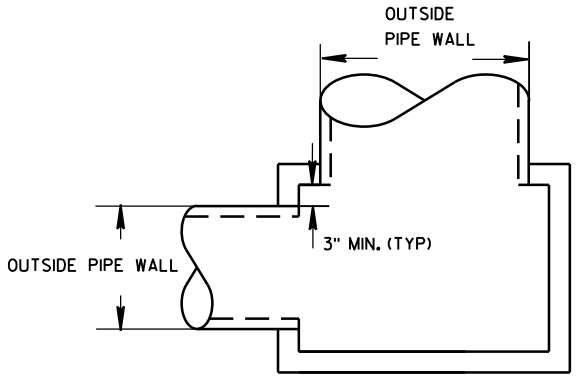
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH Ⓦ (FT)	LENGTH Ⓛ (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

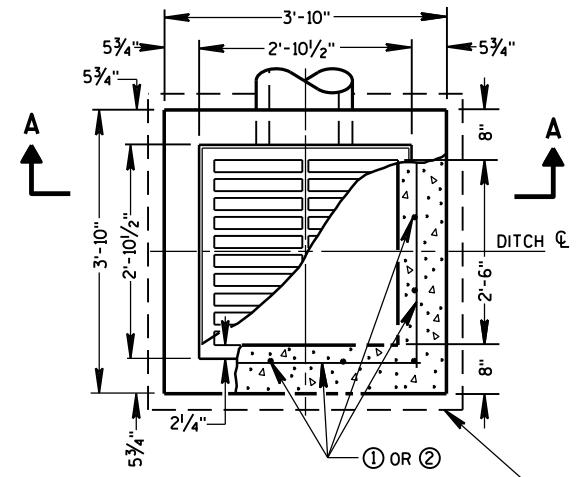
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

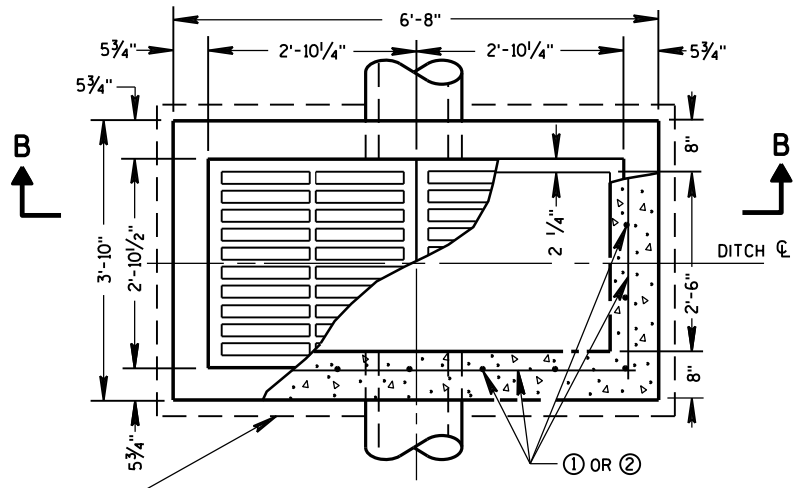
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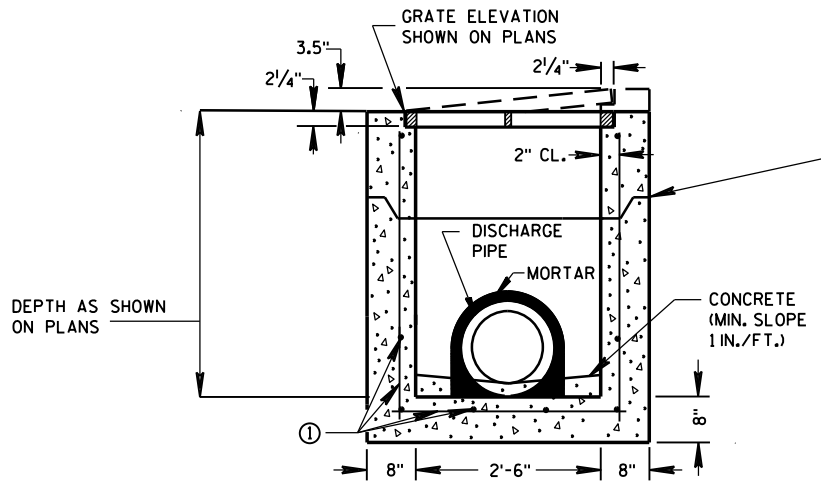


PLAN VIEW

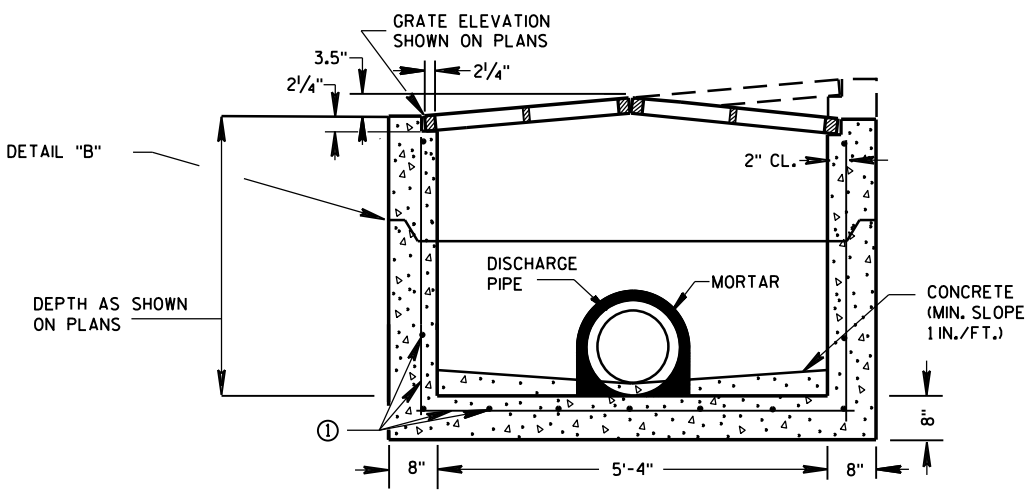


PLAN VIEW

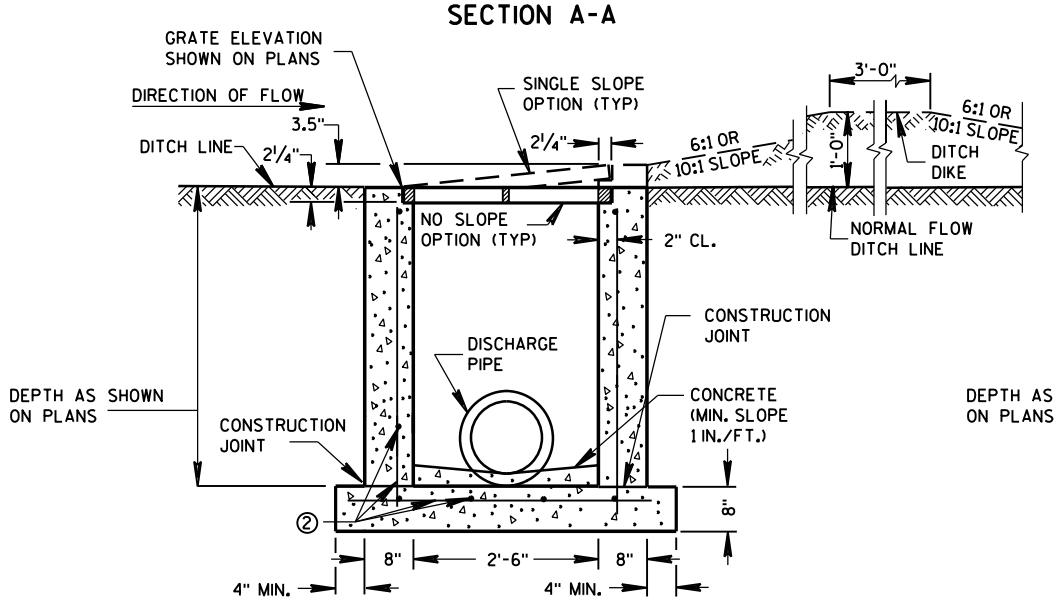
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



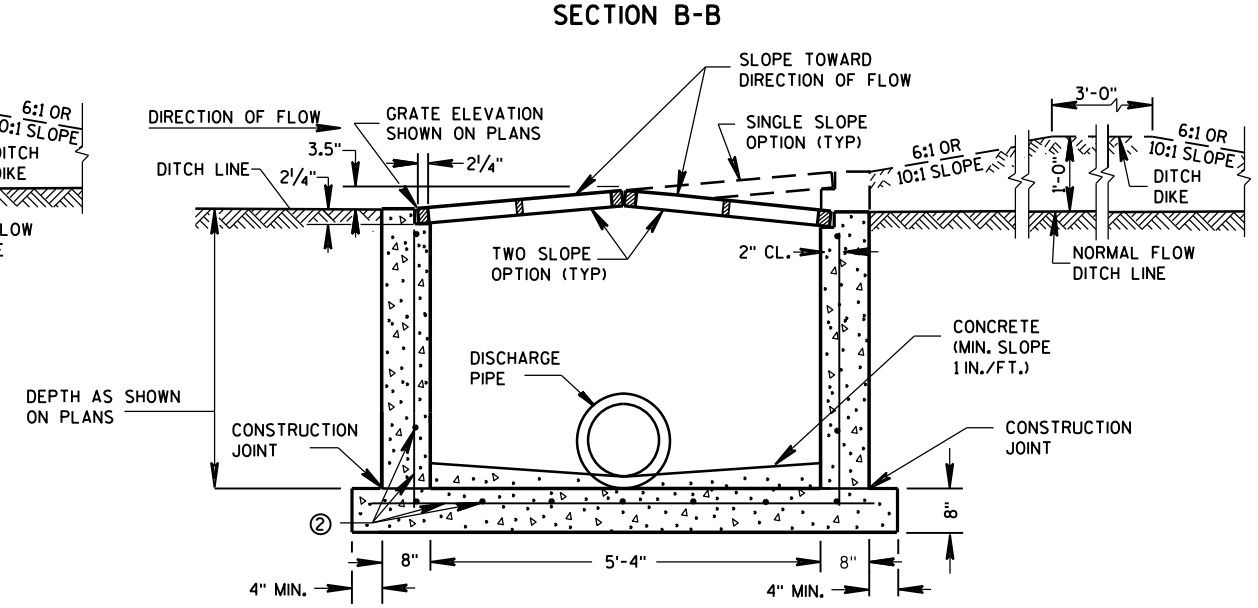
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

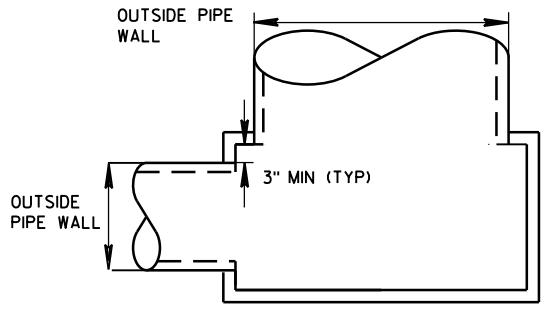
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

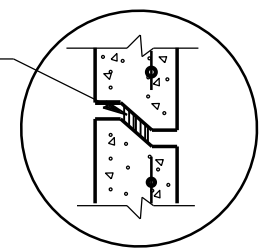
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



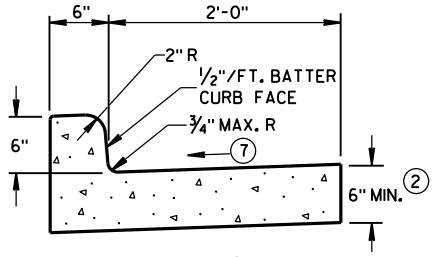
DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

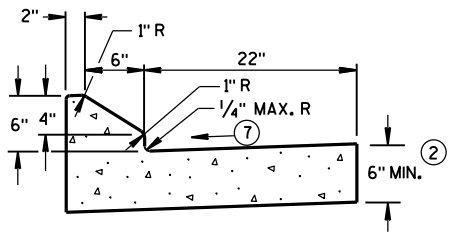
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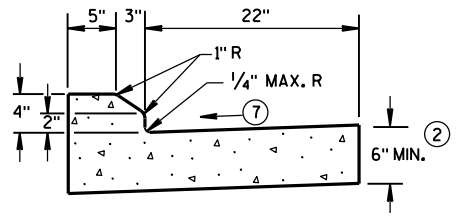
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S.D.D. 8 C 8-2



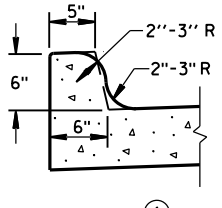
TYPES A (1) & D



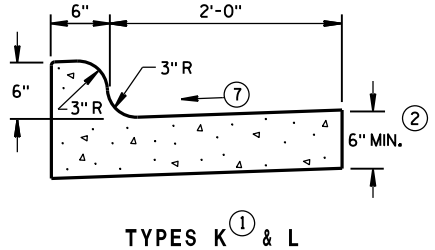
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

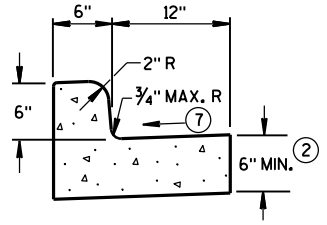


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



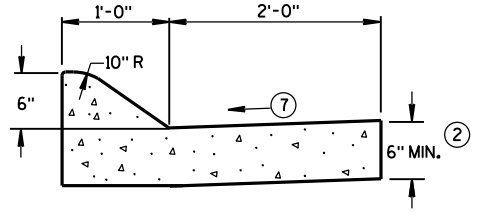
TYPES K (1) & L

CONCRETE CURB & GUTTER 30"

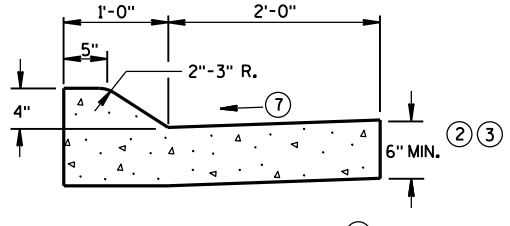


TYPES A (1) & D

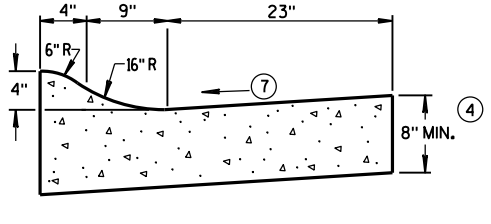
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

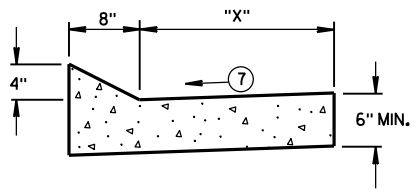


4" SLOPED CURB TYPES A (1) & D



4" SLOPED CURB TYPES R (1) & T (5)

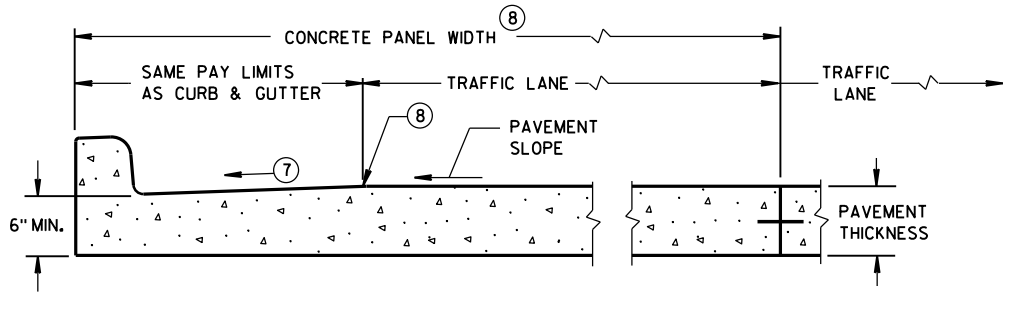
CONCRETE CURB & GUTTER 36"



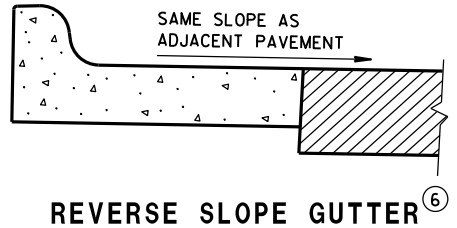
TYPES TBT & TBTT (1)

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"



PARTIAL SECTION OF PAVEMENT *
WITH INTEGRAL CURB & GUTTER



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

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'

* BIKE LANE IS NOT SHOWN.

CONCRETE CURB & GUTTER

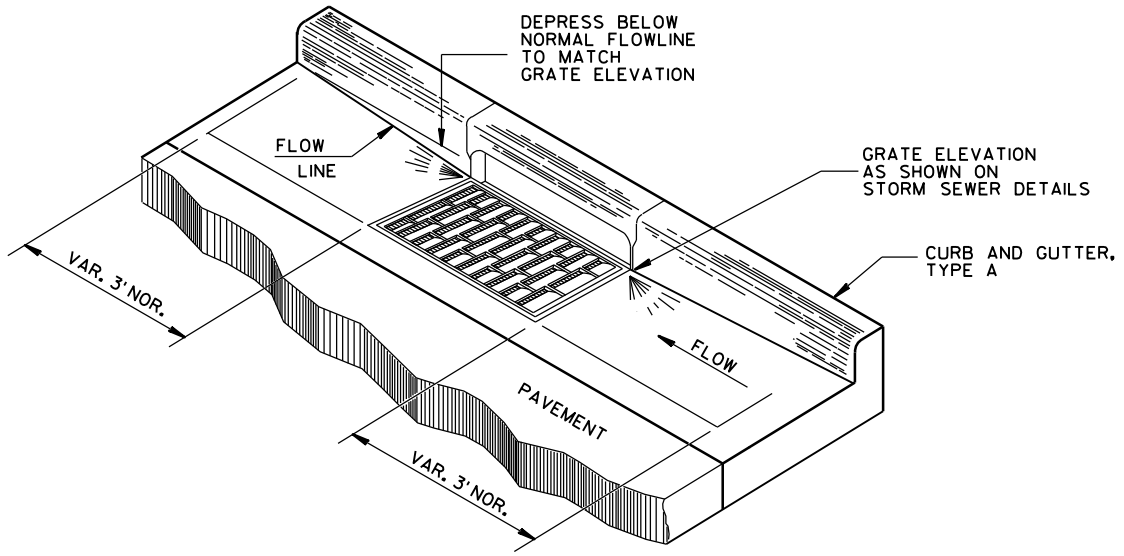
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 8 D 1-20a

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.

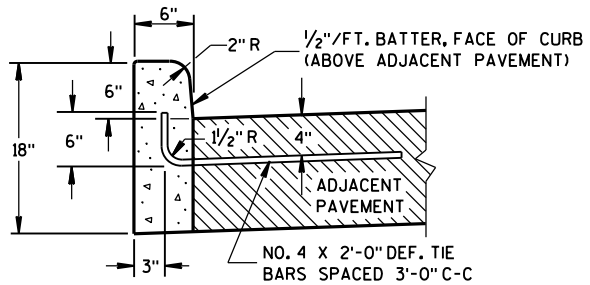
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

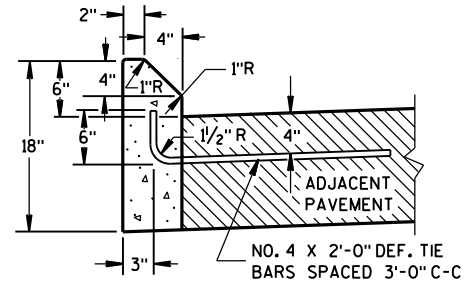
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(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.

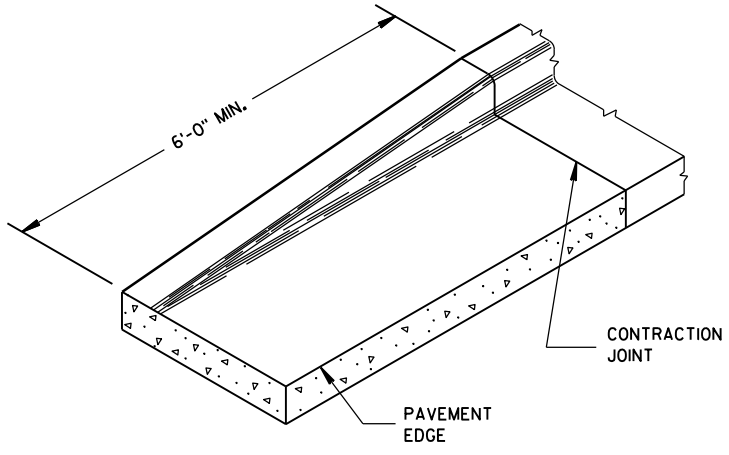


TYPES A(1) & D

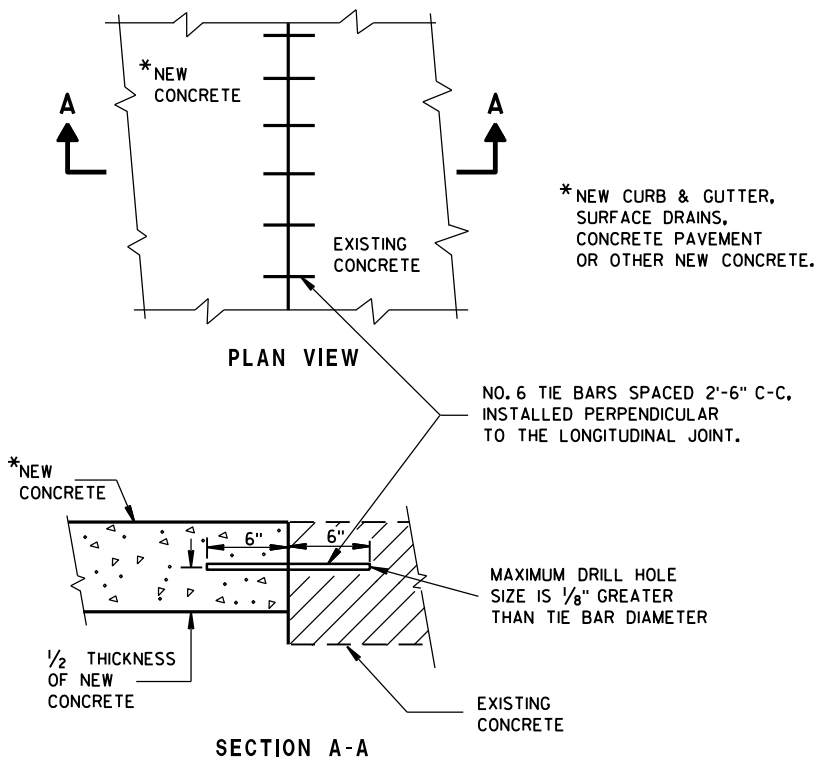


TYPES G(1) & J

CONCRETE CURB



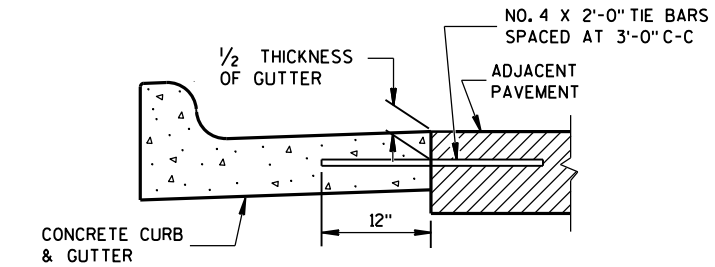
END SECTION CURB & GUTTER



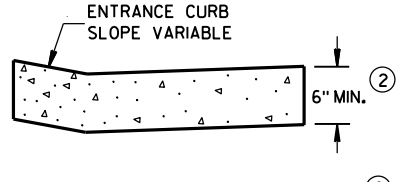
PLAN VIEW

SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

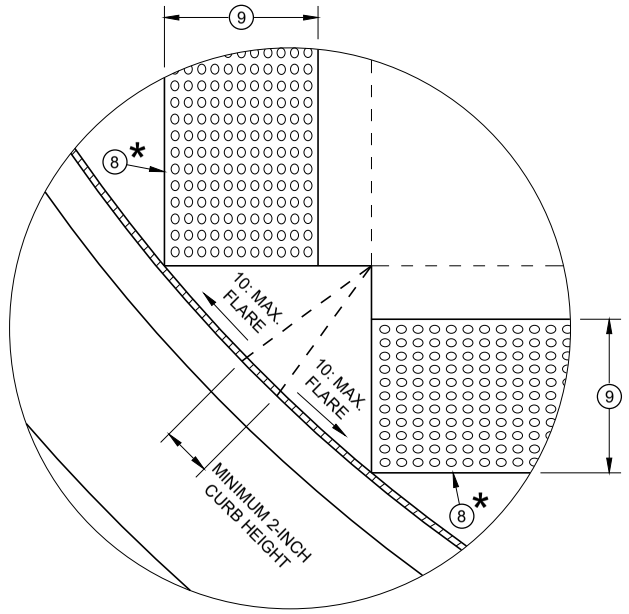
CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

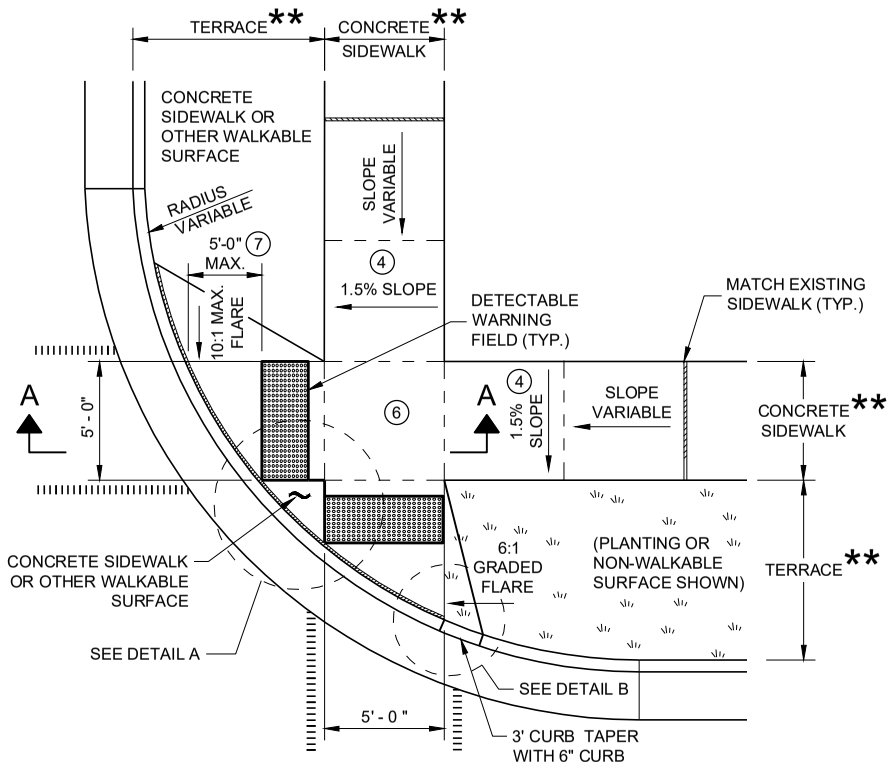
APPROVED
June, 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS 331 UNIT SUPERVISOR — ENT
FHWA

6

S.D.D. 8 D 1-20b



DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)

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.

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) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.

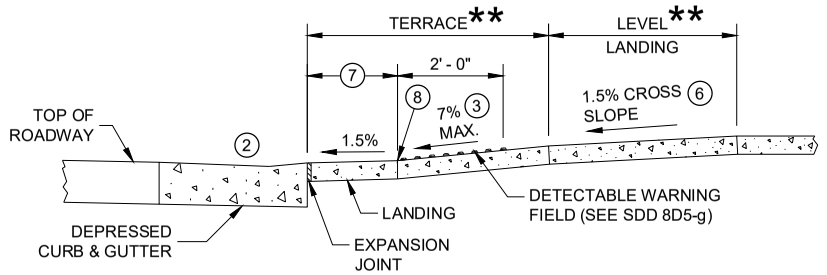
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN 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.

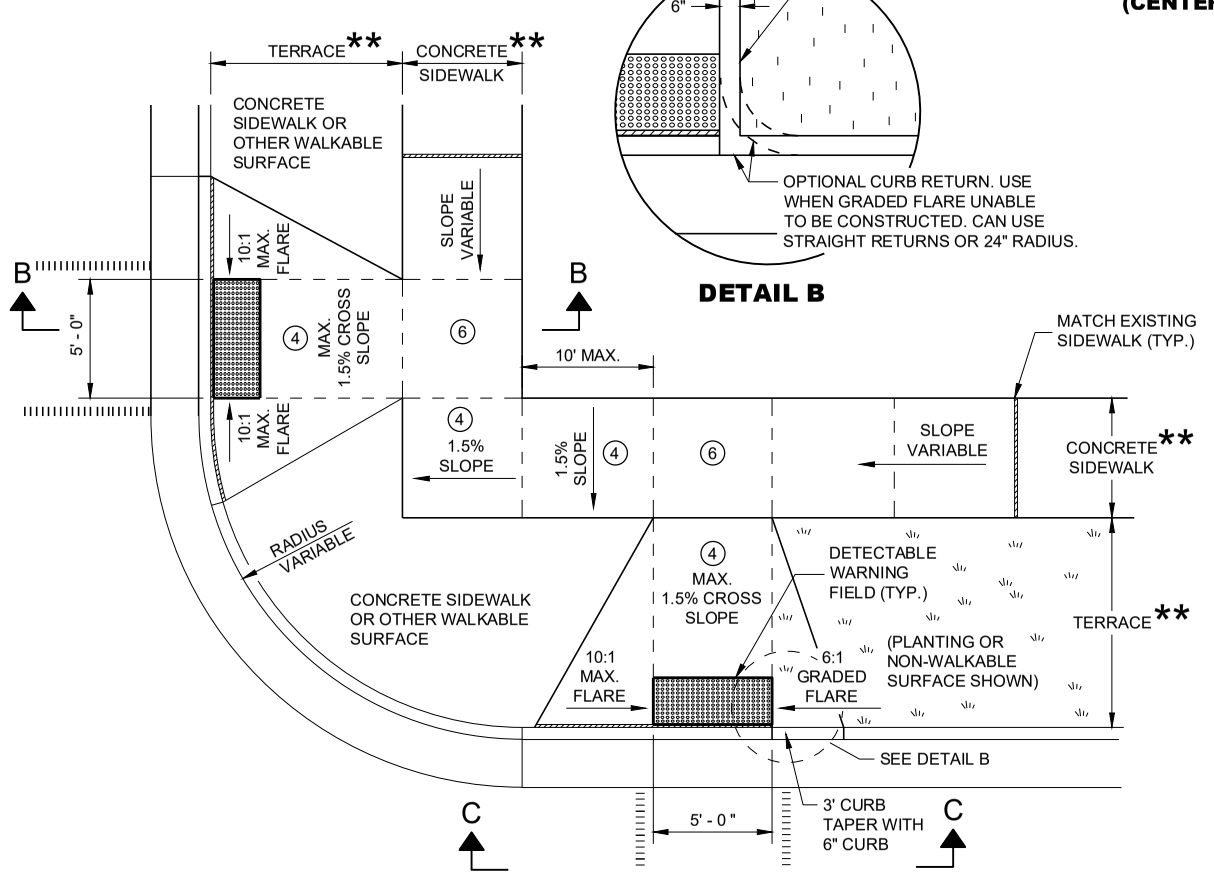
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



SECTION A - A FOR TYPE 2

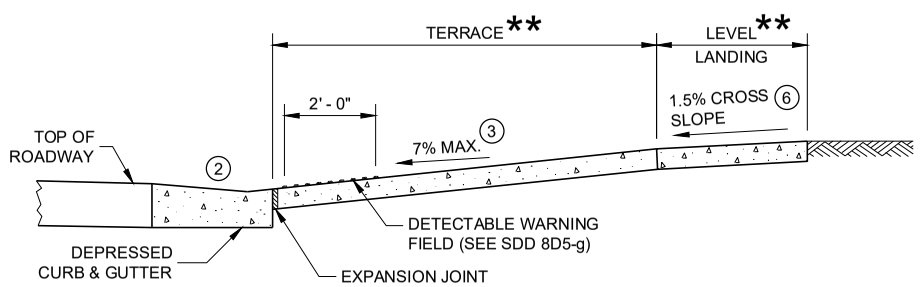
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

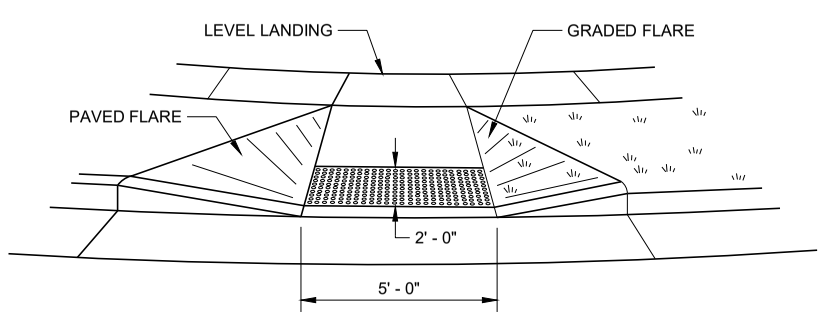


DETAIL B

PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



SECTION B - B FOR TYPE 3



VIEW C - C FOR TYPE 3

LEGEND

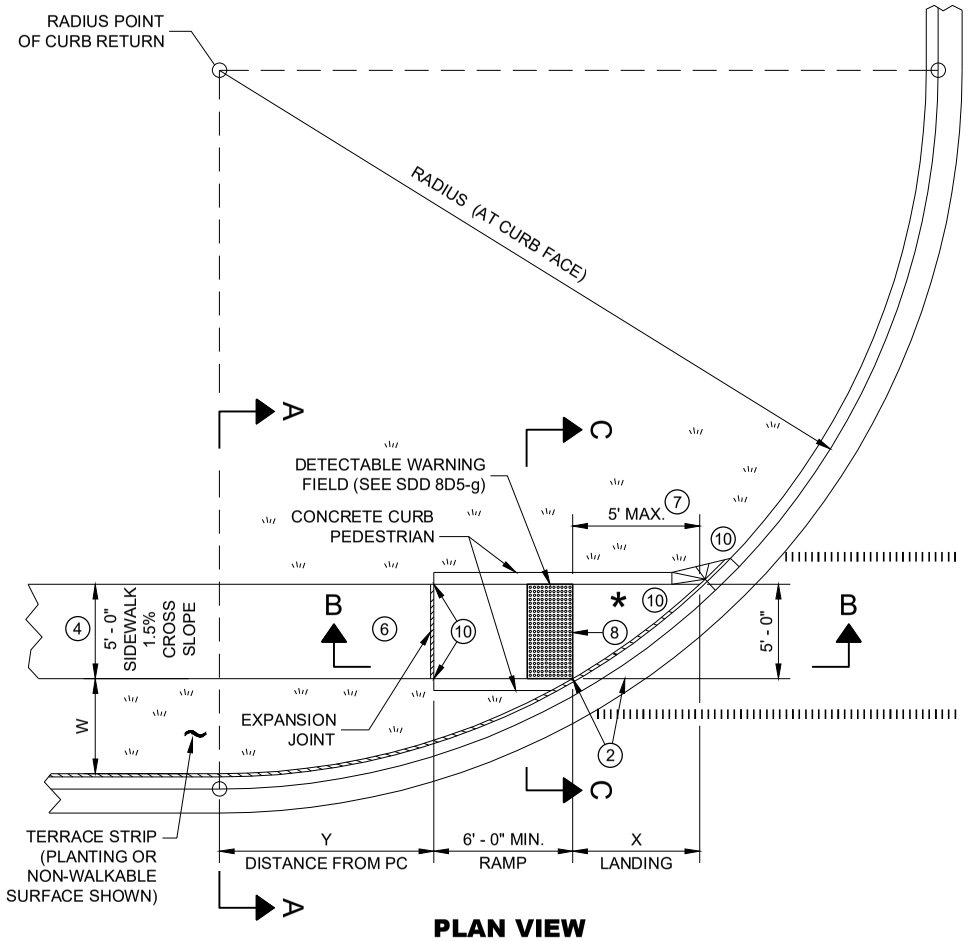
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 08D05 - 20b

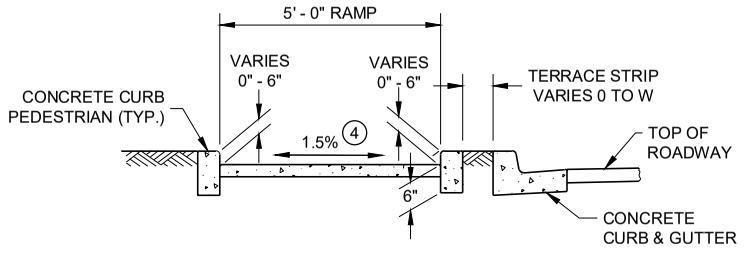


PLAN VIEW

CURB RAMP 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' - 10 ¼"	0' - 5"	2' - 1"	1' - 4 ½"	1' - 5"	2' - 1"	0' - 10"	2' - 7 ½"	0' - 3 ¼"	3' - 0 ¼"						
15 FEET	4' - 6 ¾"	2' - 1 ¾"	3' - 9"	3' - 5 ¾"	3' - 1 ¼"	4' - 6"	2' - 6 ¾"	5' - 4 ½"	2' - 1"	6' - 1"	1' - 8"	6' - 8 ½"	1' - 3 ¼"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ¼"
20 FEET	5' - 9 ¾"	3' - 6 ½"	4' - 11 ½"	5' - 1 ¾"	4' - 3 ¼"	6' - 5 ½"	3' - 8 ¾"	7' - 7"	3' - 3"	8' - 6 ½"	2' - 10"	9' - 4 ½"	2' - 5 ½"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"
30 FEET			6' - 9 ¼"	7' - 11 ¼"	6' - 0 ¼"	9' - 8"	5' - 5"	11' - 1 ¾"	4' - 10 ¾"	12' - 5 ¾"	4' - 5 ½"	13' - 7 ¾"	4' - 0 ¾"	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"
40 FEET									6' - 1 ¾"	15' - 8 ½"	5' - 8"	17' - 2"	5' - 3"	18' - 5 ¾"	4' - 10 ¾"	19' - 8 ¼"
50 FEET															5' - 10 ¼"	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

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

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.

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) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

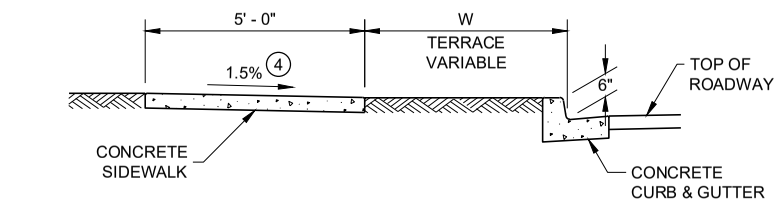
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

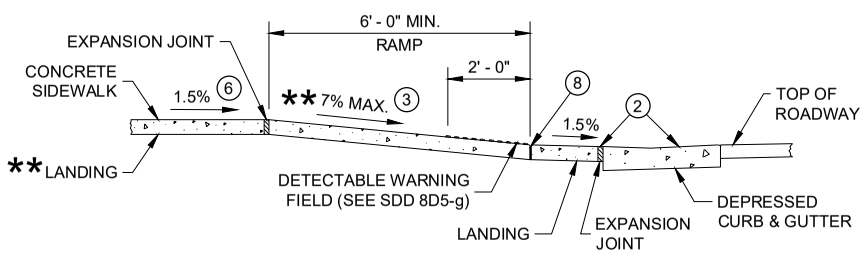
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

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



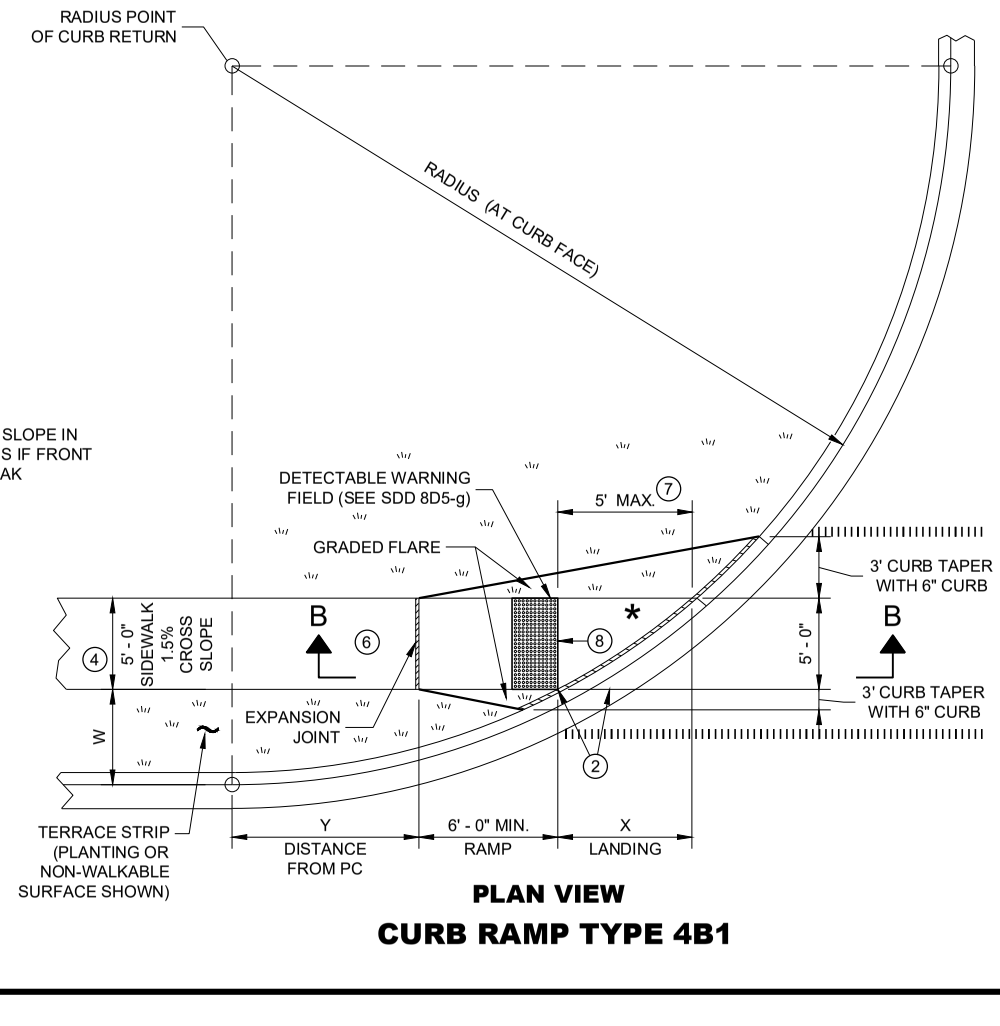
SECTION A - A FOR TYPE 4B



** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

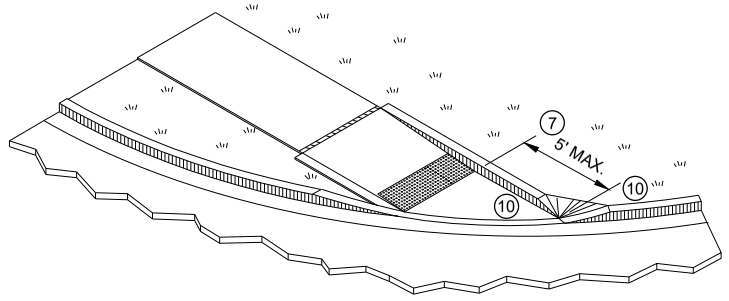
SECTION B - B FOR TYPE 4B AND TYPE 4B1

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

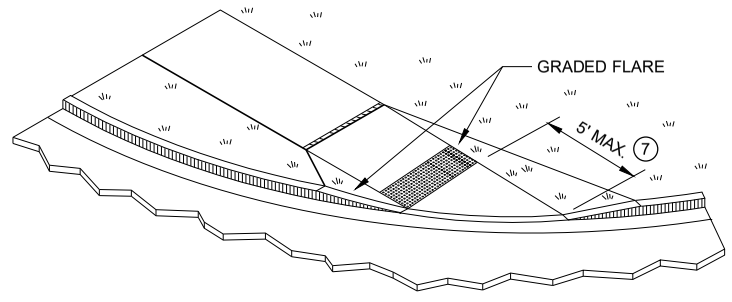


PLAN VIEW

CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS
TYPE 4B AND 4B1

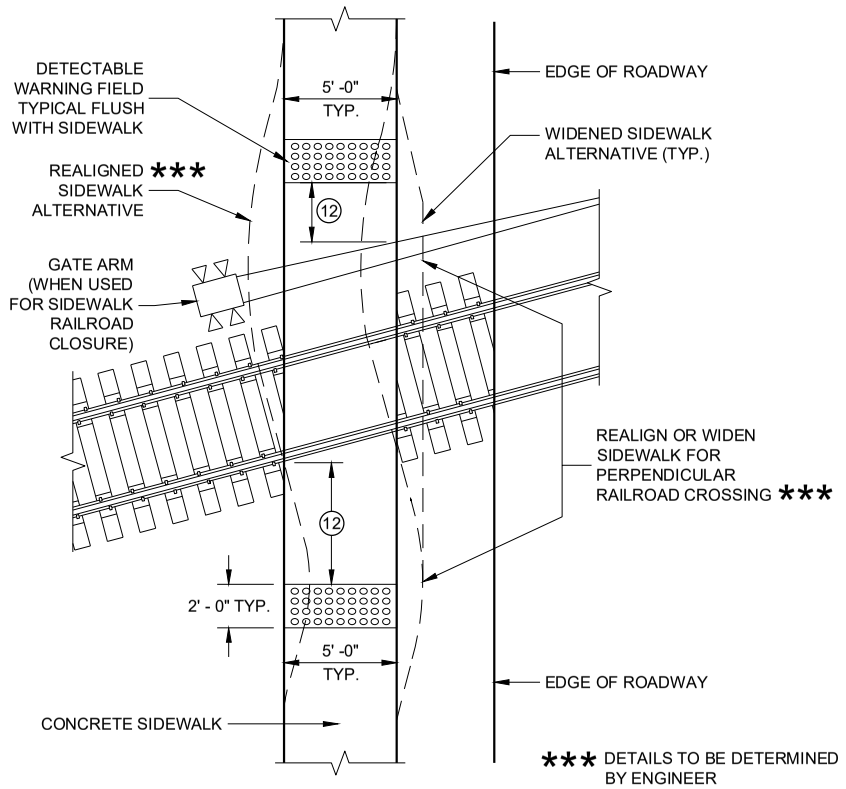
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA- 333

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SDD 08D05 - 20d

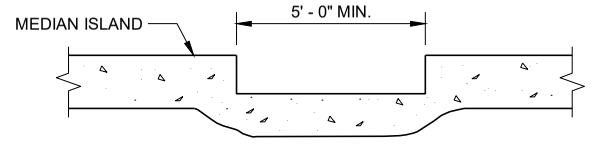
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SDD 08D05 - 20d

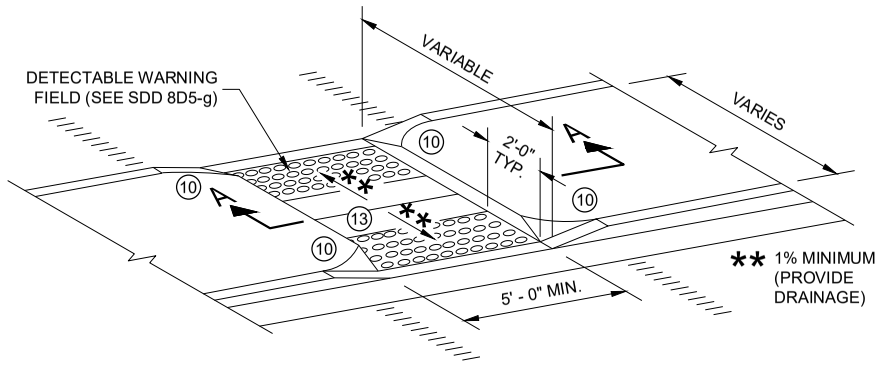


CURB RAMP TYPE 8

DETECTABLE WARNINGS AT RAILROAD CROSSING



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

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.

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 ½ - 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) AN 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 LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

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

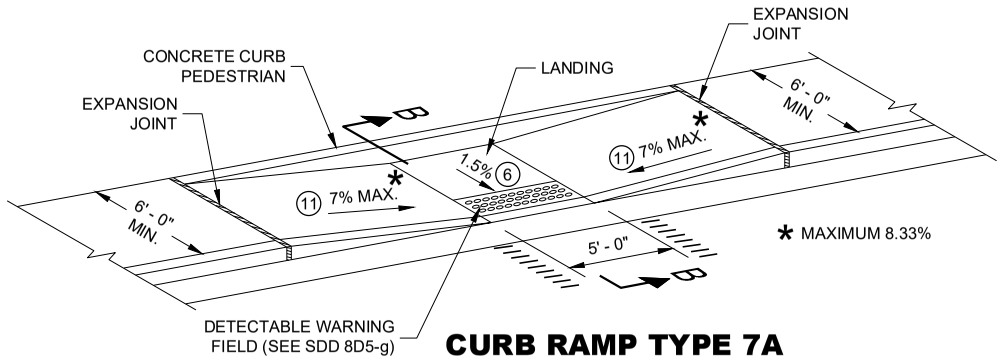
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(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 STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

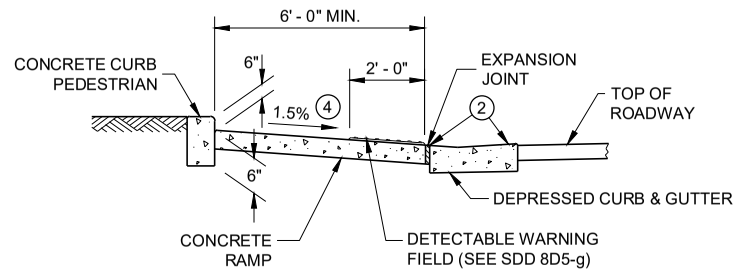
LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

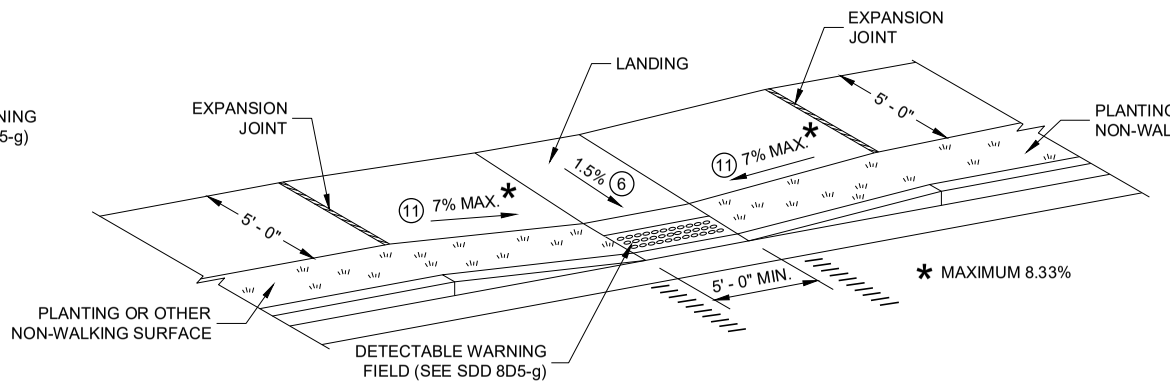


CURB RAMP TYPE 7A

MID BLOCK CROSSING



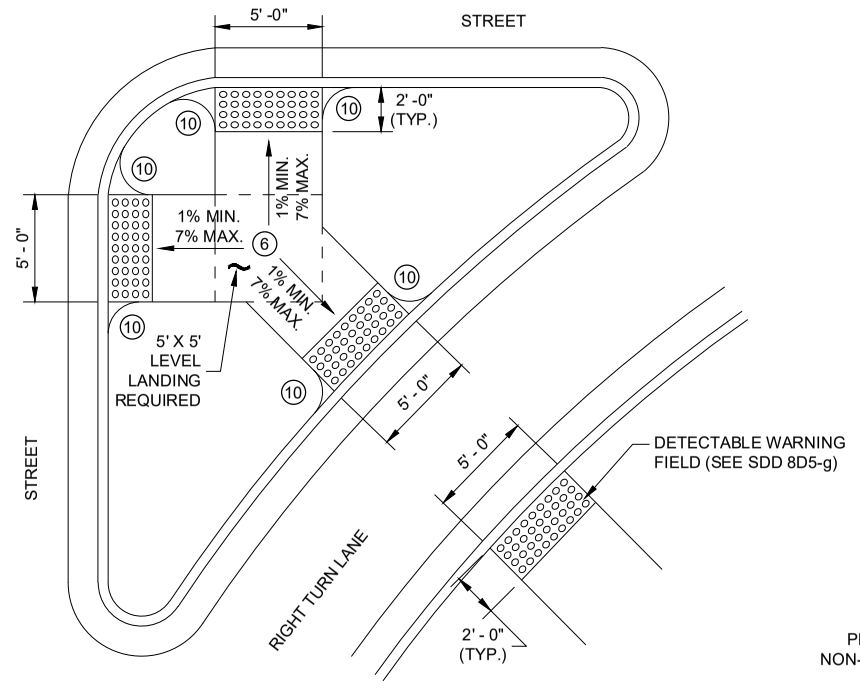
SECTION B - B FOR TYPE 7A



CURB RAMP TYPE 7B

MID BLOCK CROSSING

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.



CURB RAMP TYPE 6

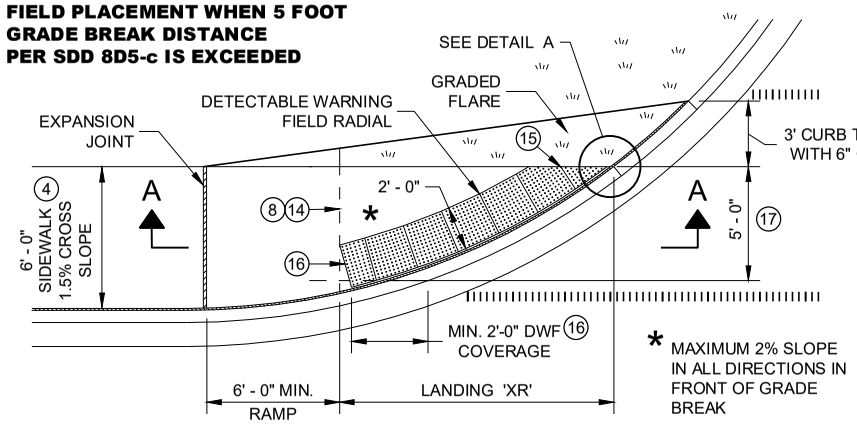
DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS

CURB RAMPS TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
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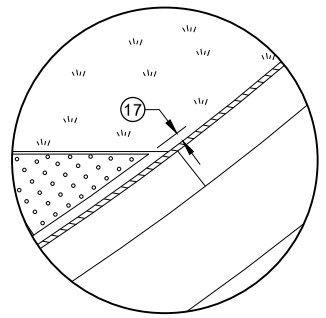
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



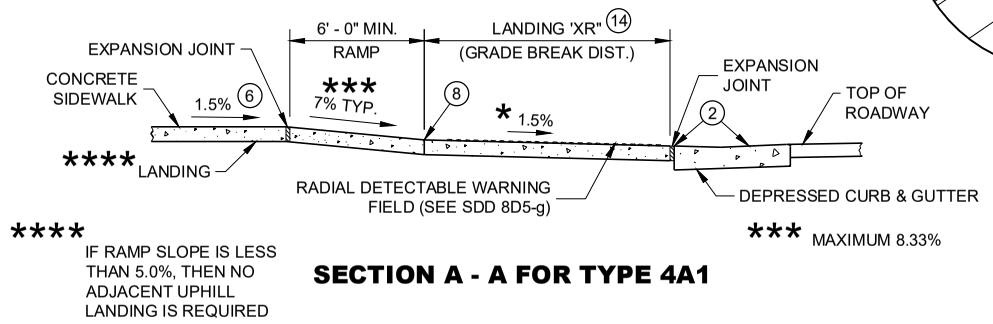
PLAN VIEW

CURB RAMP TYPE 4A1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL A

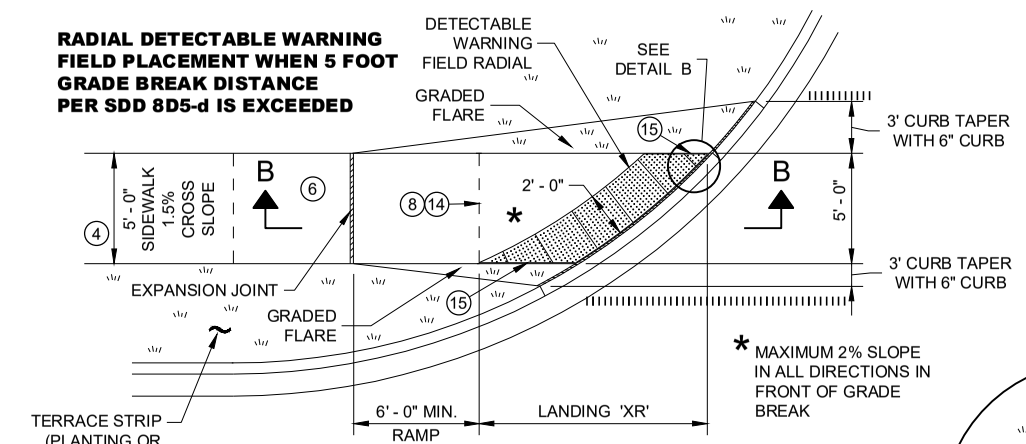


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION A - A FOR TYPE 4A1

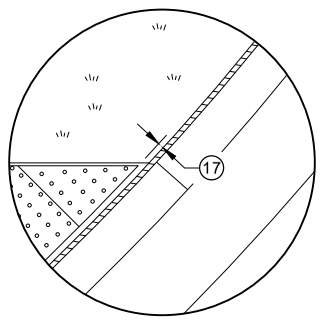
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



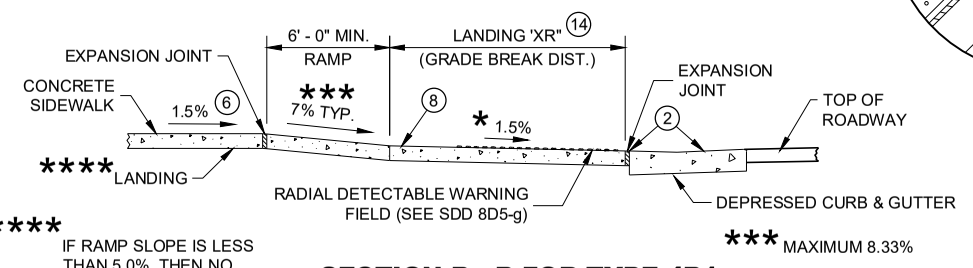
PLAN VIEW

CURB RAMP TYPE 4B1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL B



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION B - B FOR TYPE 4B1

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

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.

DETECTABLE WARNING FIELDS 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 FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AD 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) AN 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 BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

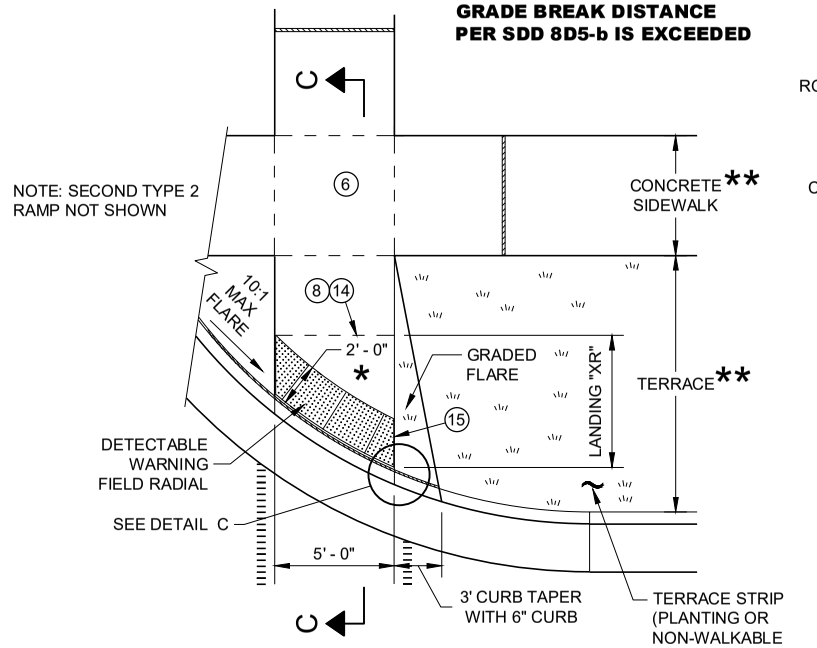
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(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 ⅛" 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 WITH IS ALLOWABLE IN FROM OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-b IS EXCEEDED

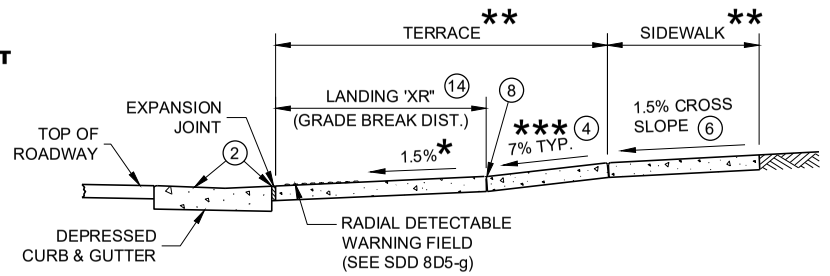


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

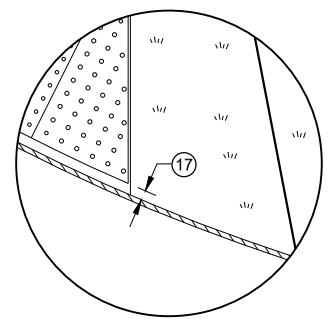


SECTION C - C FOR TYPE 2

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%



DETAIL C

CURB RAMPS
RADIAL DETECTABLE WARNING FIELD APPLICATIONS

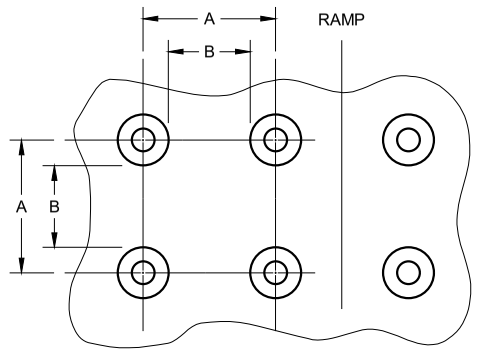
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA- 335

SDD 08D05 - 20f

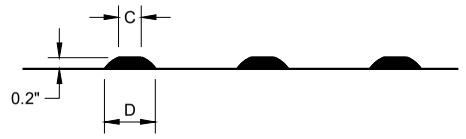
SDD 08D05 - 20f

	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.

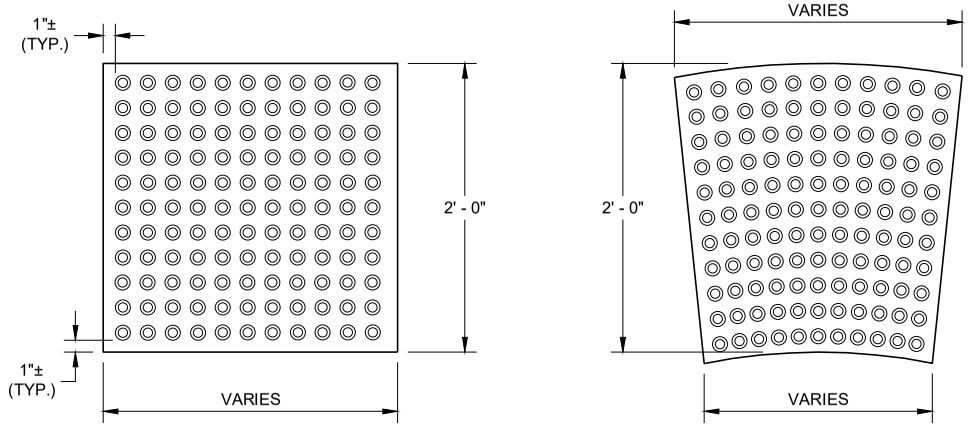


PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP 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 FILED ARE PROHIBITED.

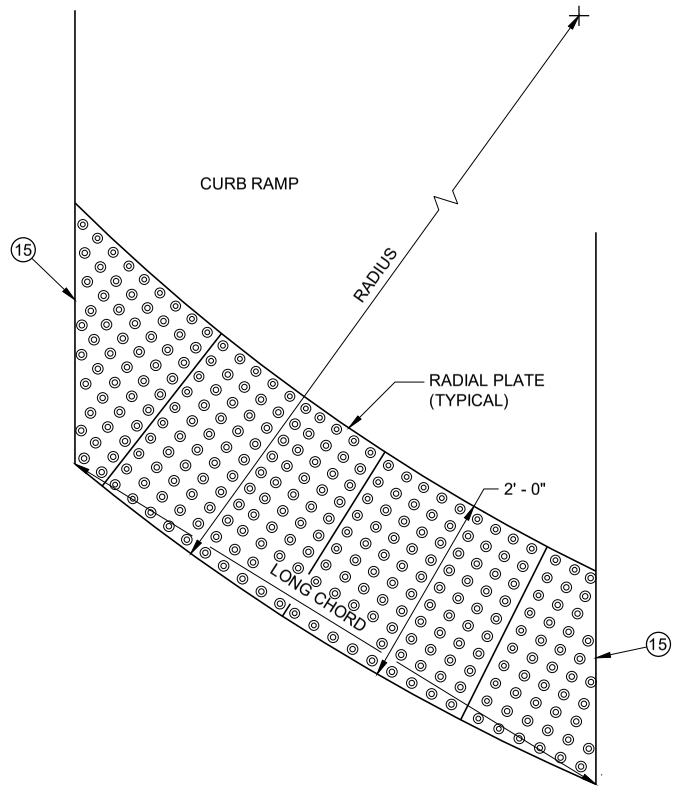
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

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 WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

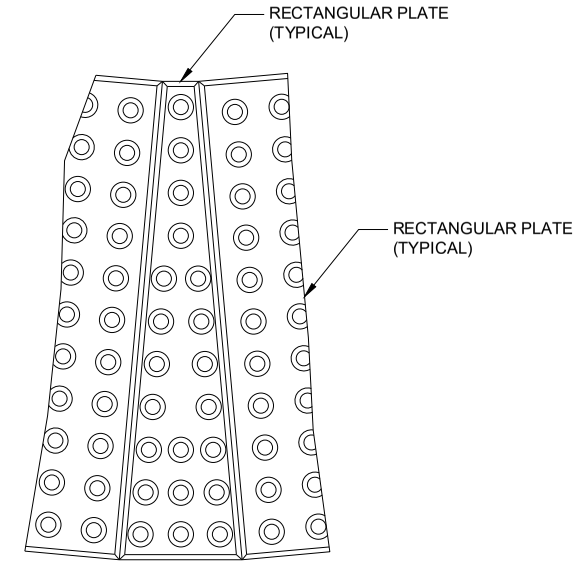
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

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 ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

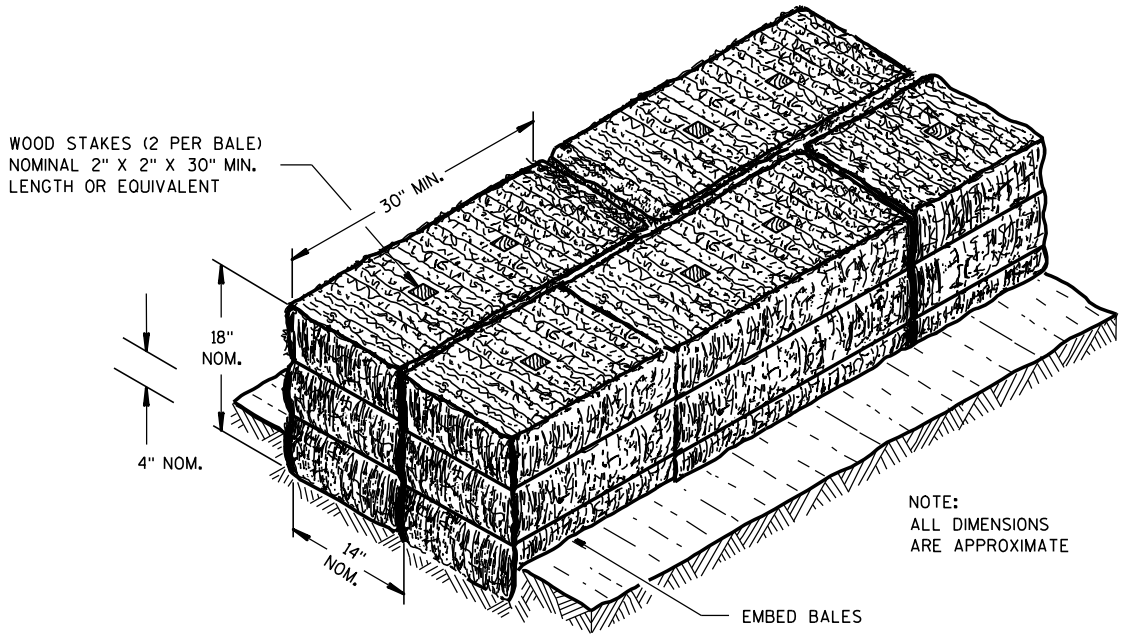
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

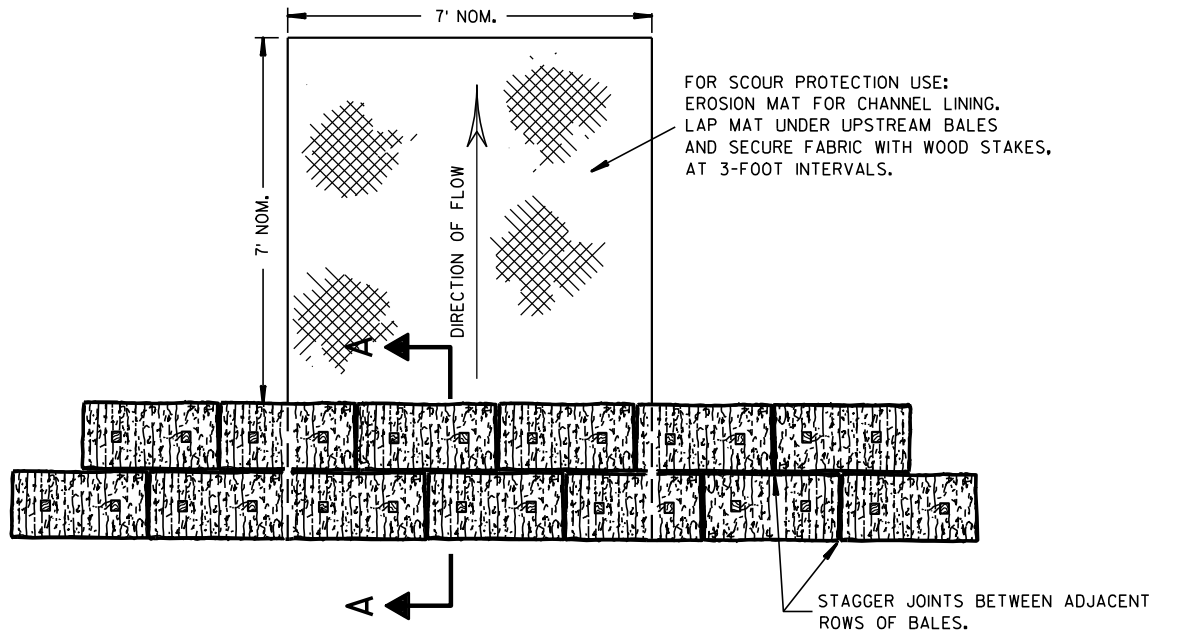
FHWA

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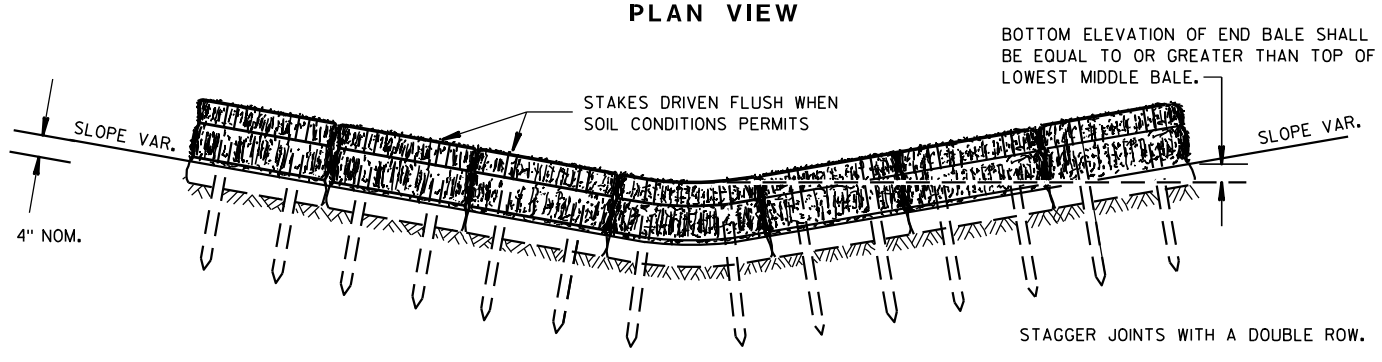
SDD 08D05 - 20g



SECTION A-A



PLAN VIEW



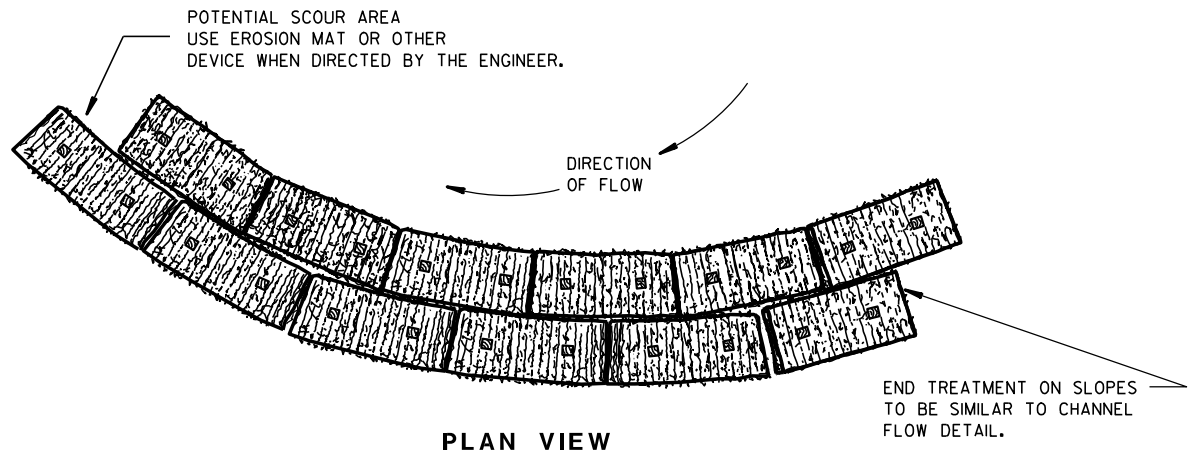
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

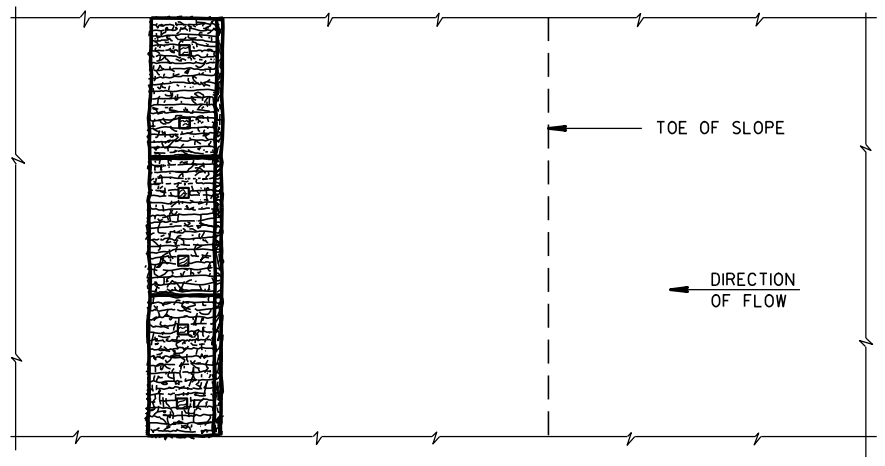
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(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.

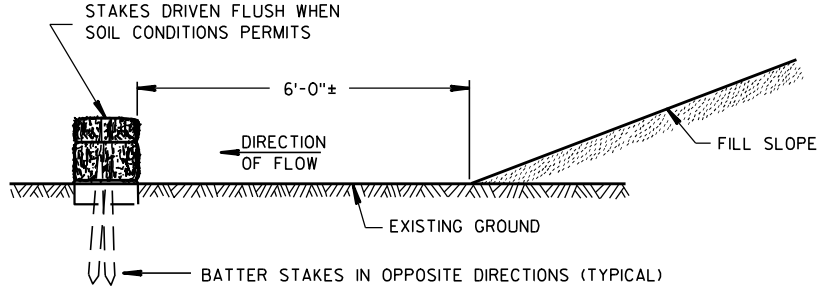


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

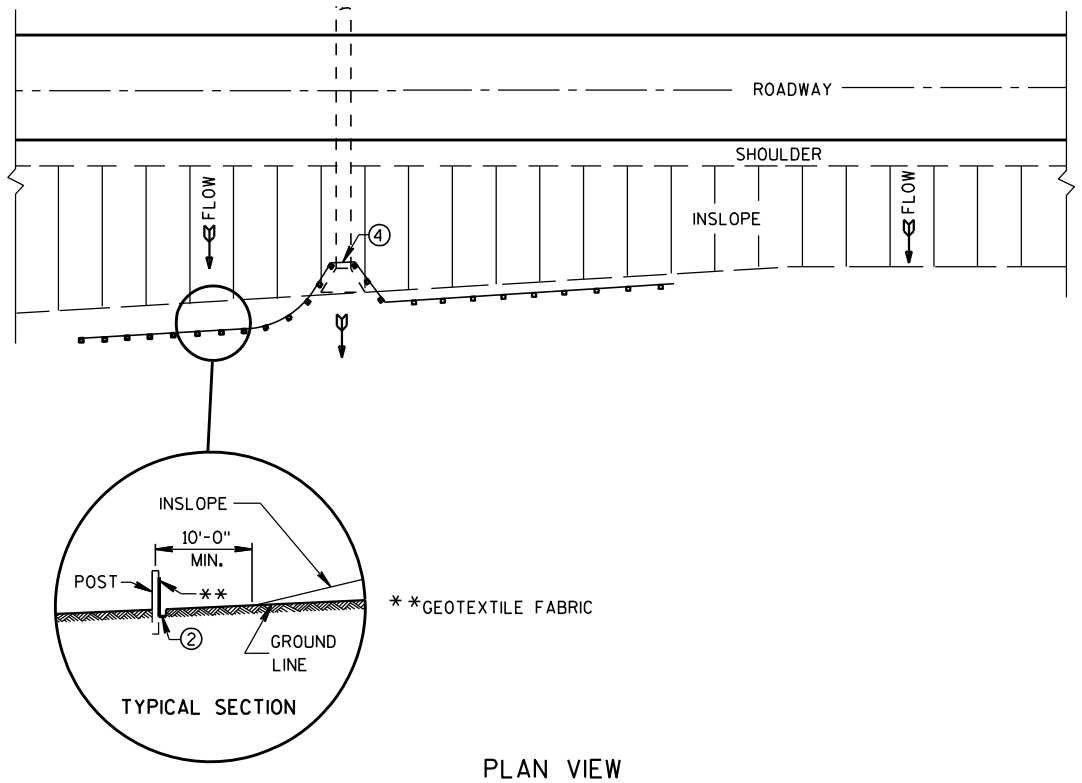
EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

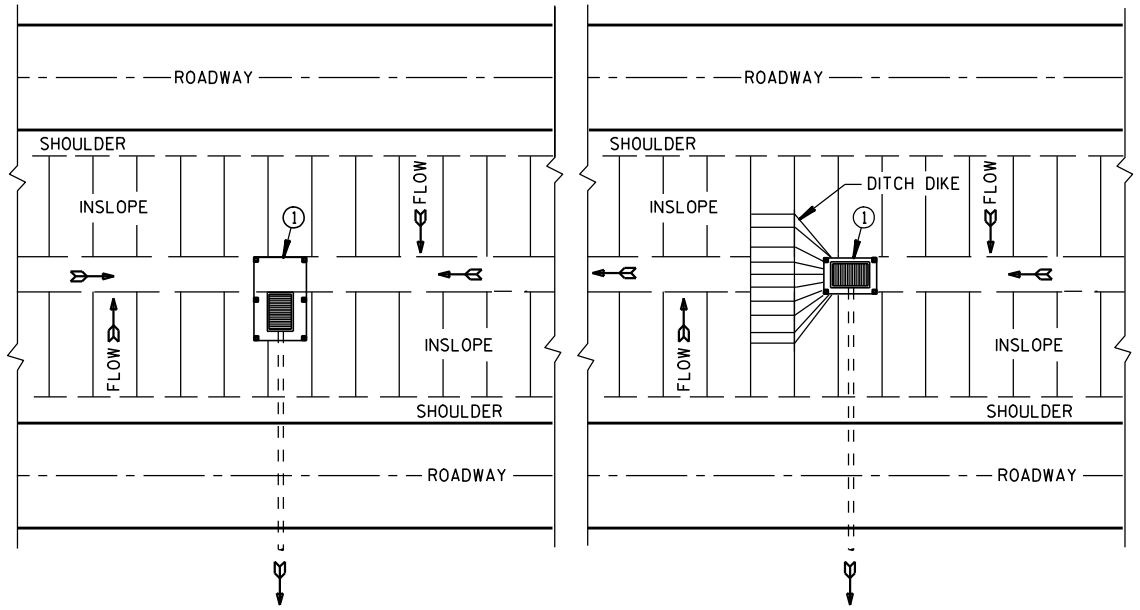
APPROVED
6/04/02 — DATE
/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 8-3



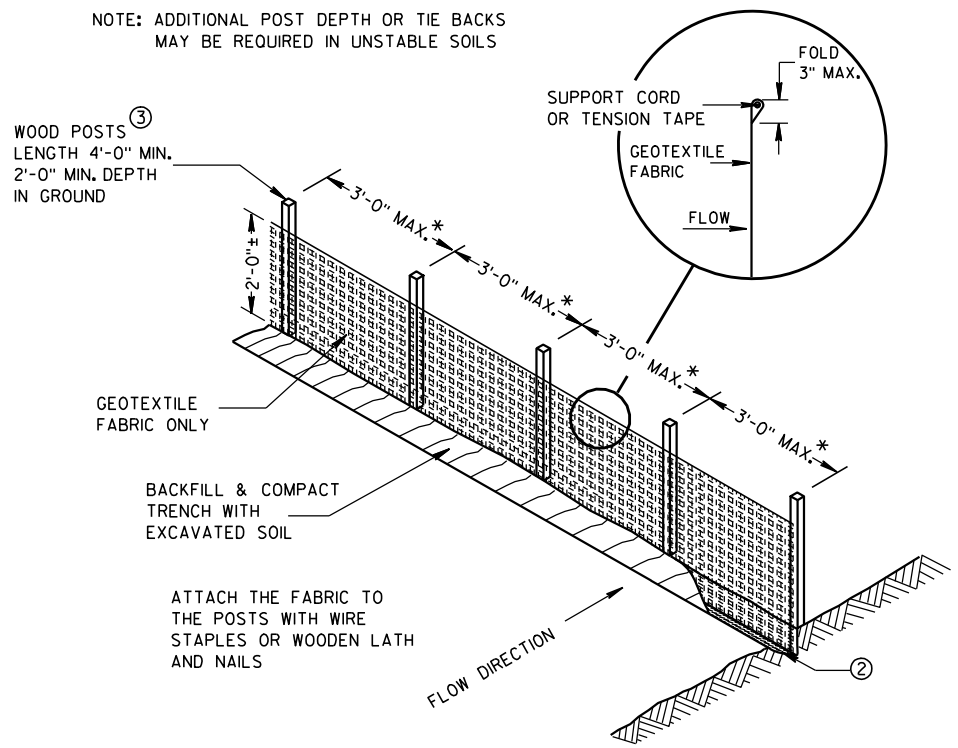
PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



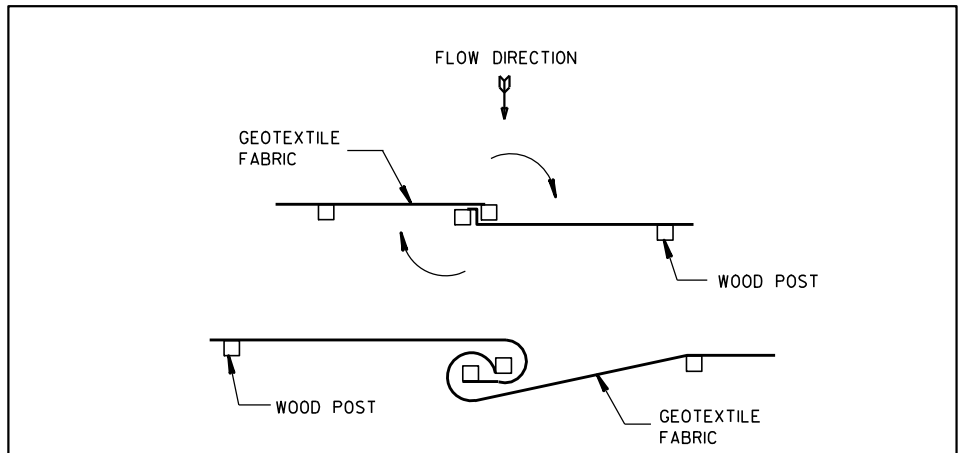
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS



*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

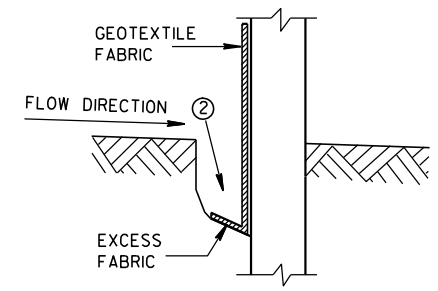


JOINING TWO LENGTHS OF SILT FENCE 5

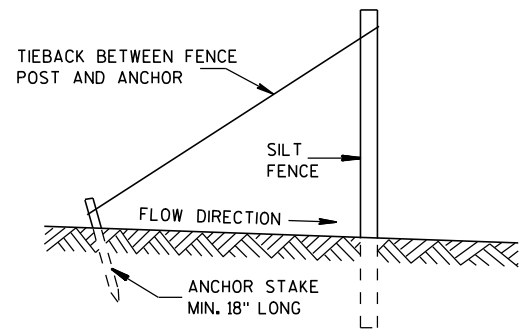
GENERAL NOTES

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 TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

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DEPARTMENT OF TRANSPORTATION

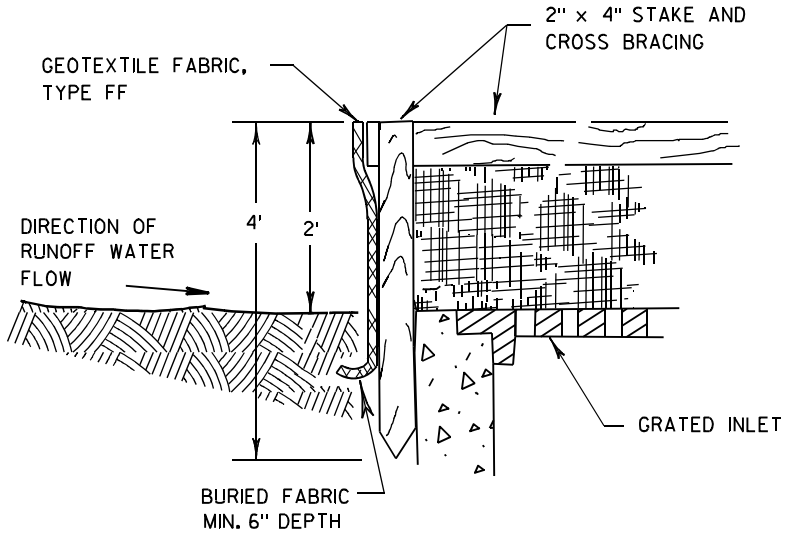
APPROVED
4-29-05
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

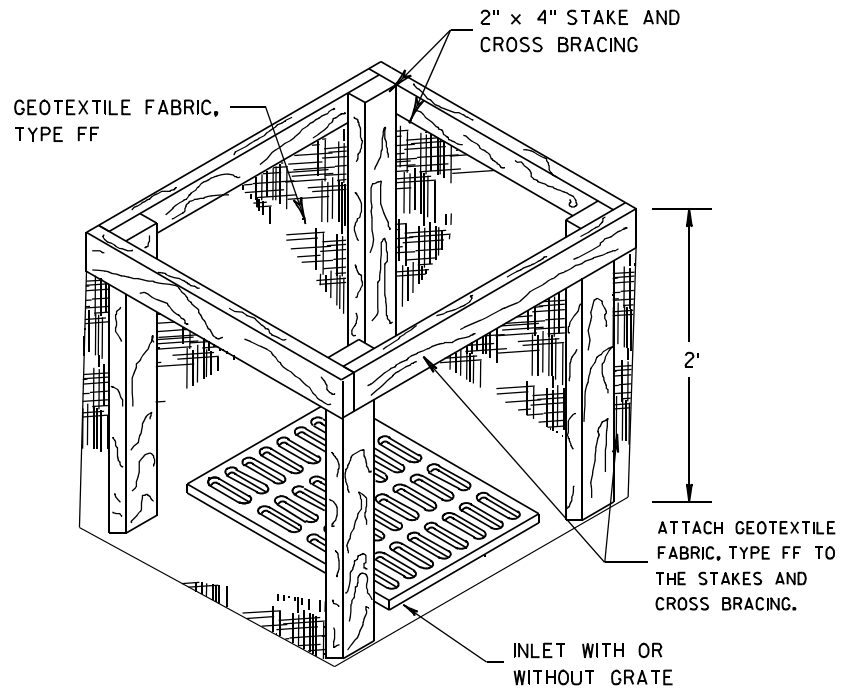
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S.D.D. 8 E 9-6

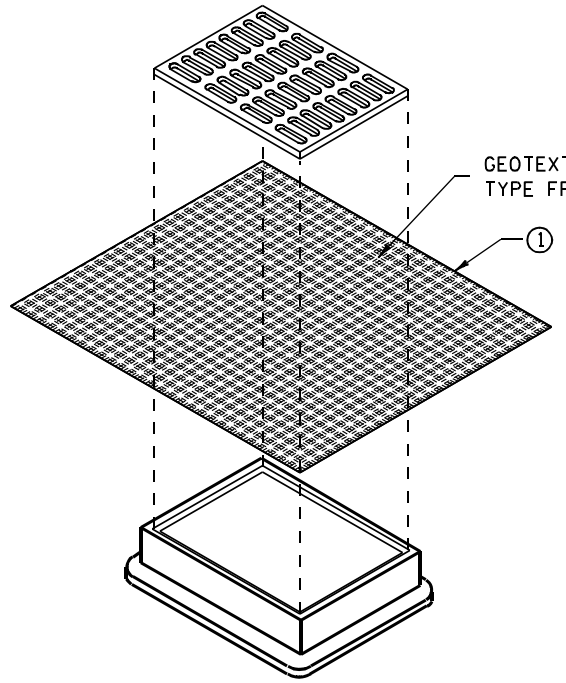
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S.D.D. 8 E 9-6



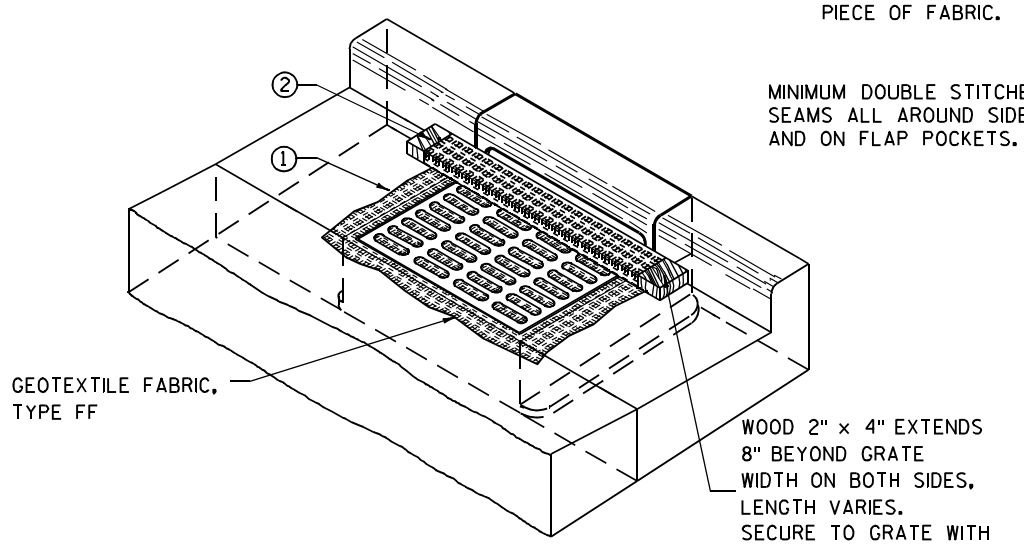


INLET PROTECTION, TYPE A

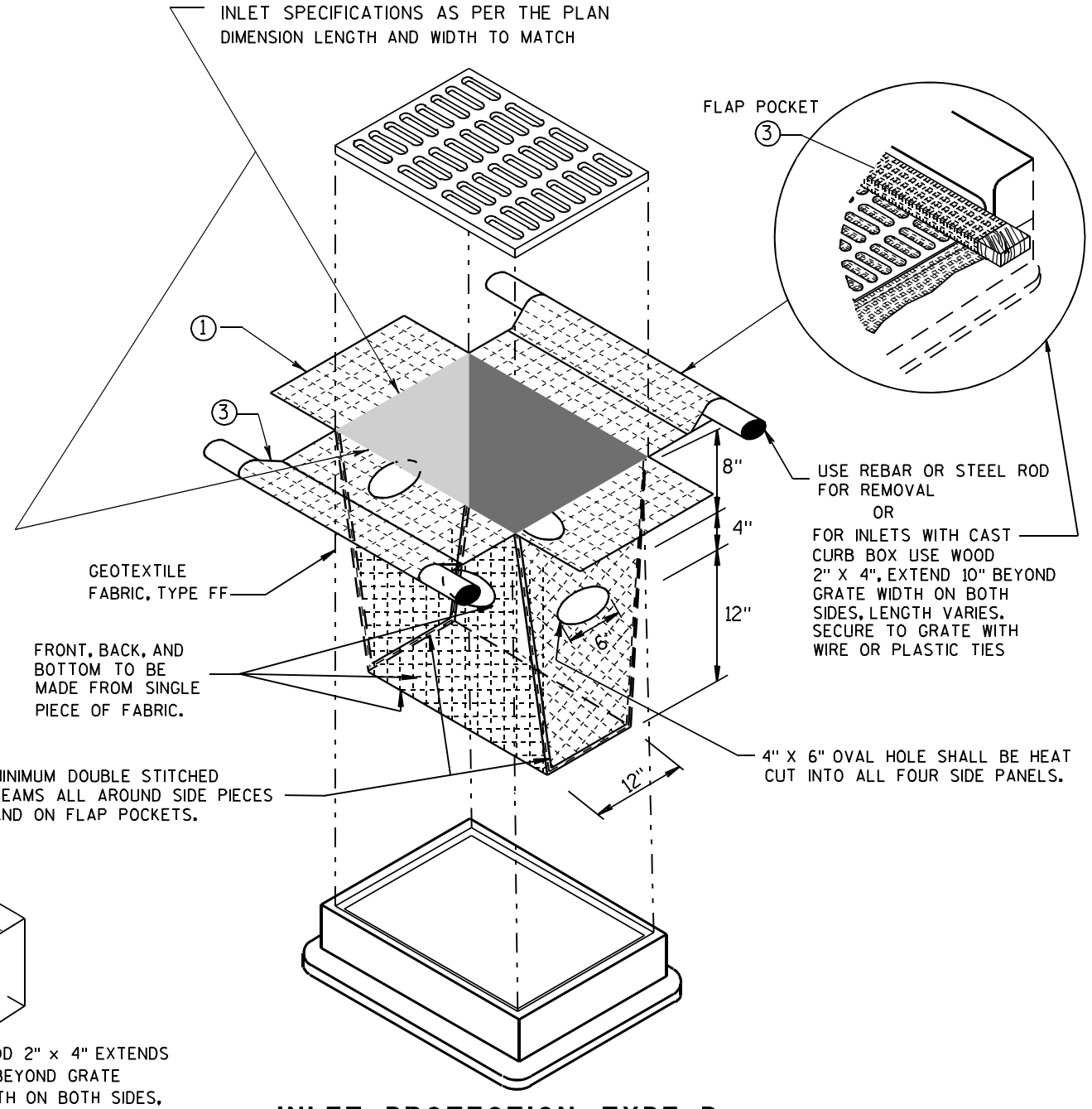


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(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

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DEPARTMENT OF TRANSPORTATION

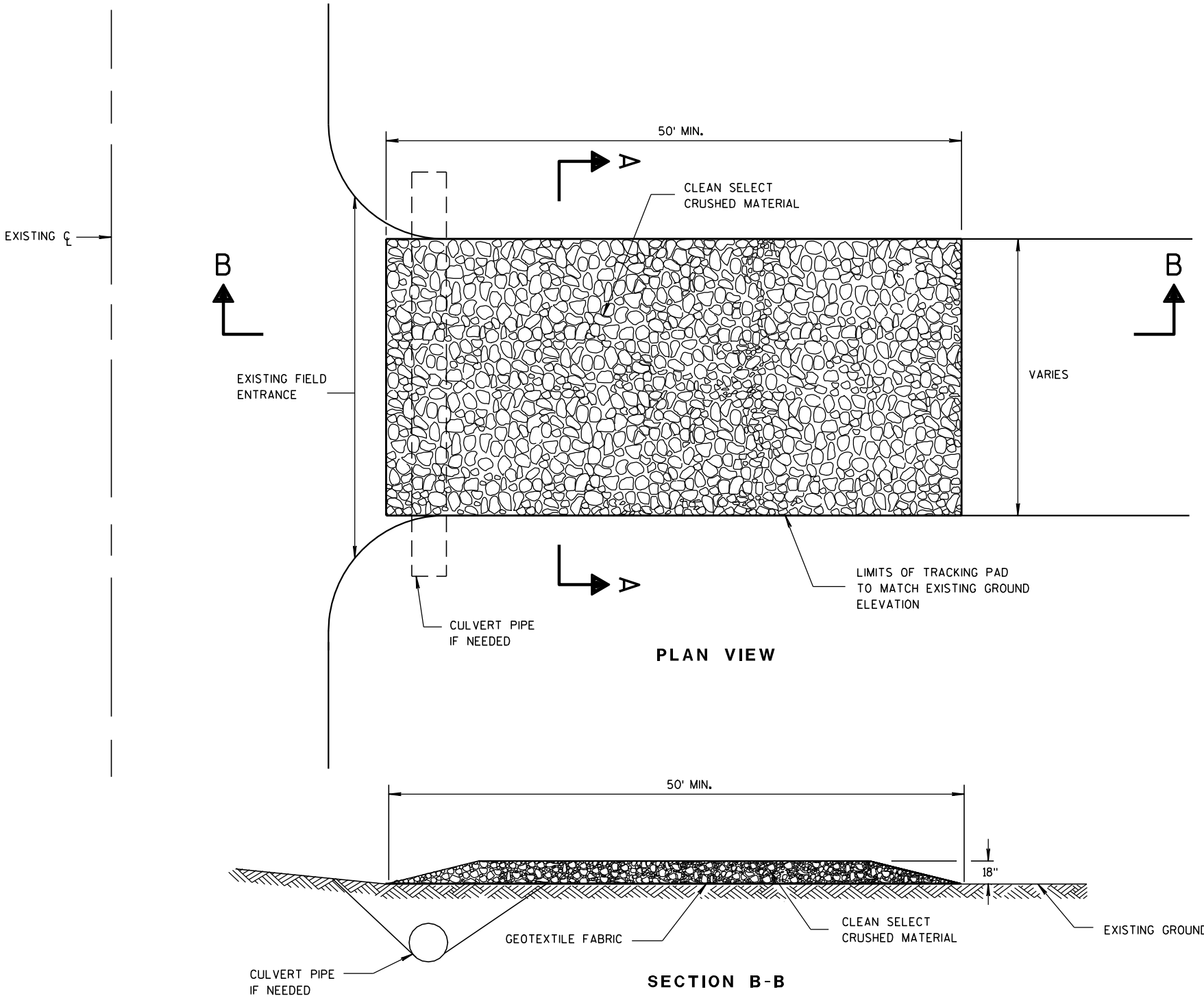
APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

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.

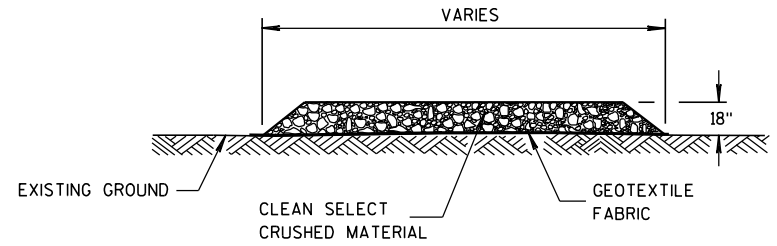
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

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

6

S.D.D. 8 E 14-1

METAL APRON ENDWALLS

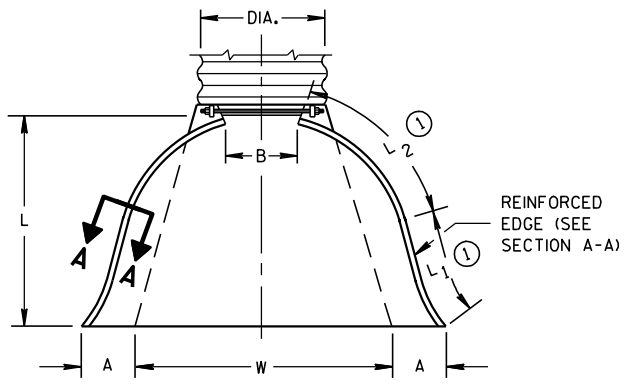
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

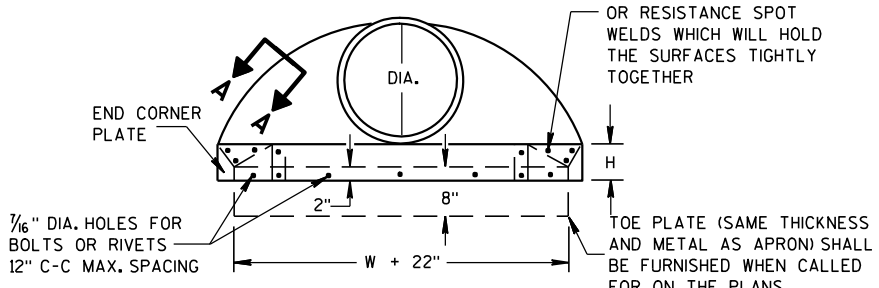
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

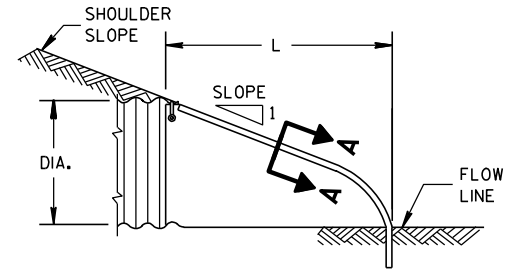
*MINIMUM
**MAXIMUM



PLAN VIEW

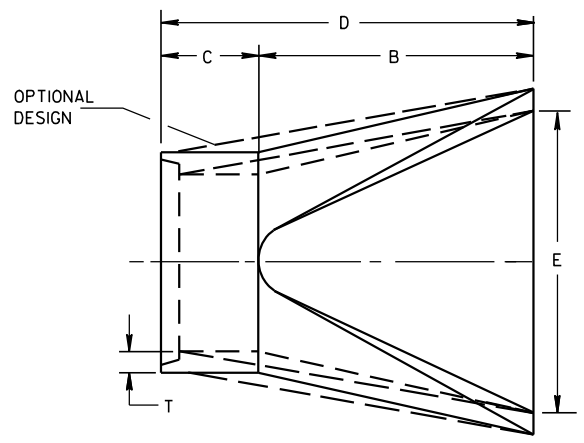


END VIEW

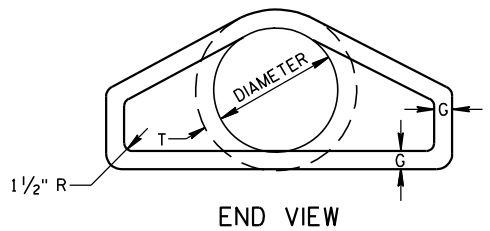


SIDE ELEVATION

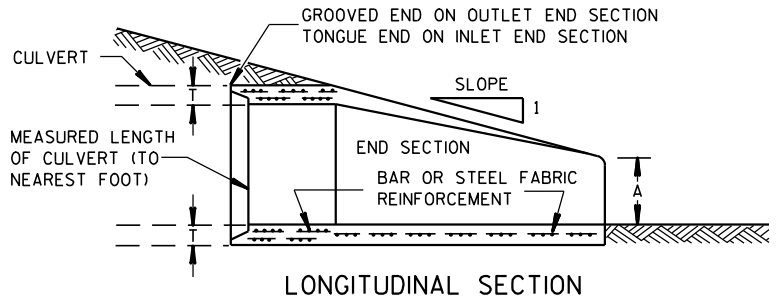
METAL ENDWALLS



PLAN

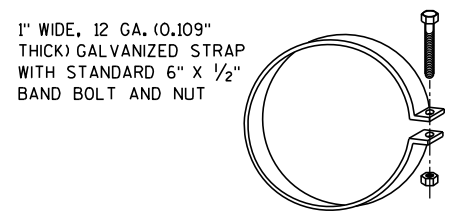


END VIEW



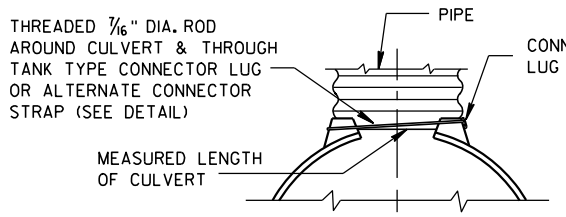
LONGITUDINAL SECTION

CONCRETE ENDWALLS

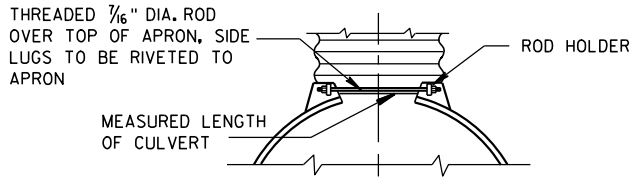


ALTERNATE FOR TYPE 1 CONNECTION

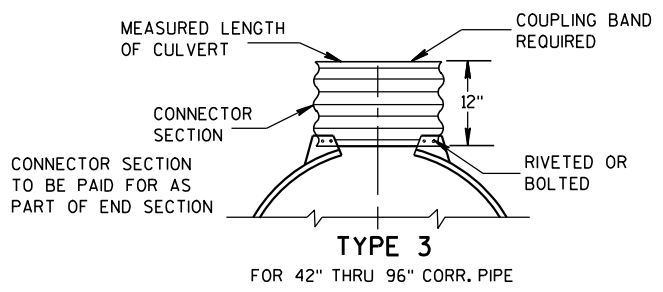
END SECTION CONNECTOR STRAP



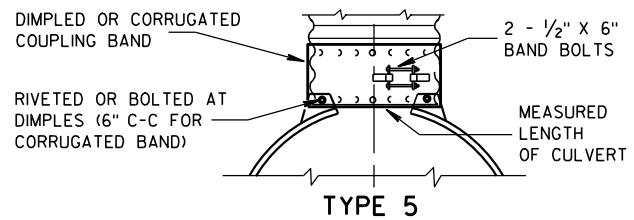
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

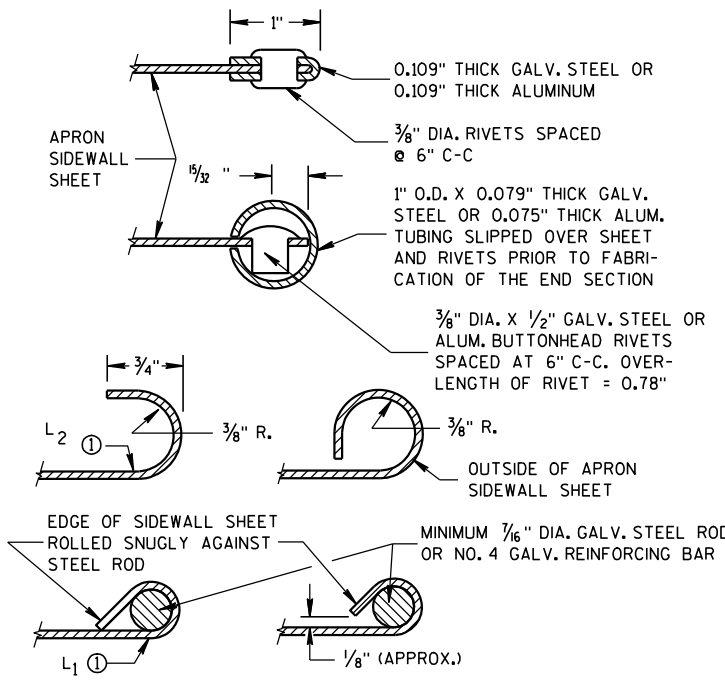
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

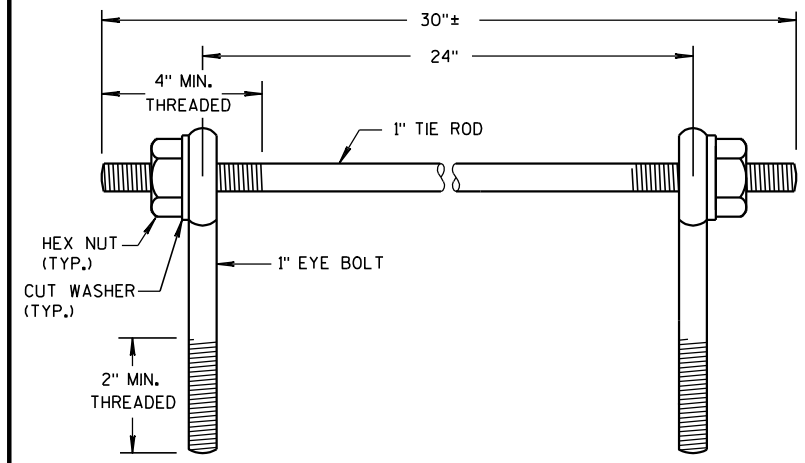
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

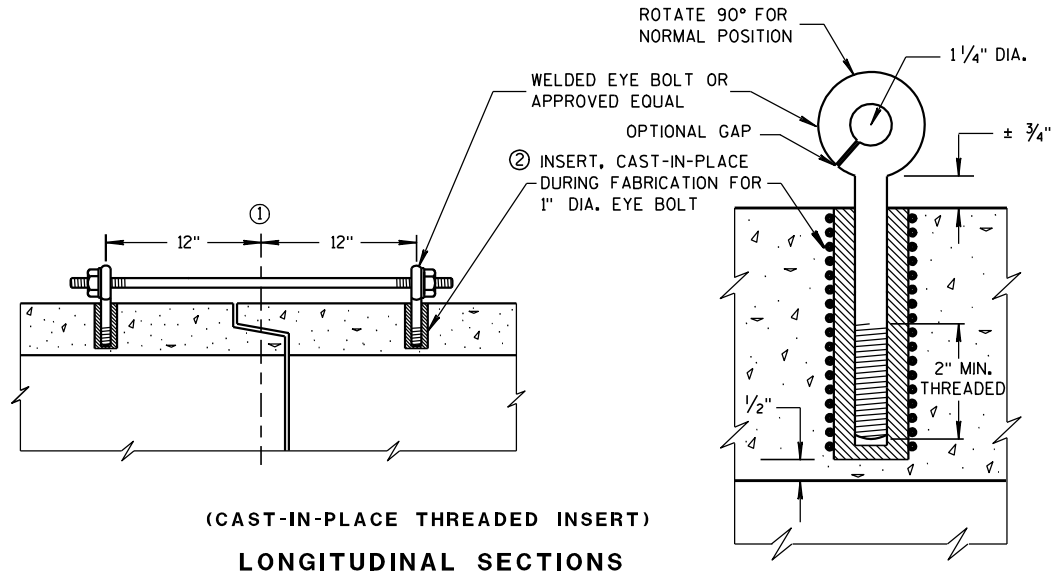
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 F 1-11



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

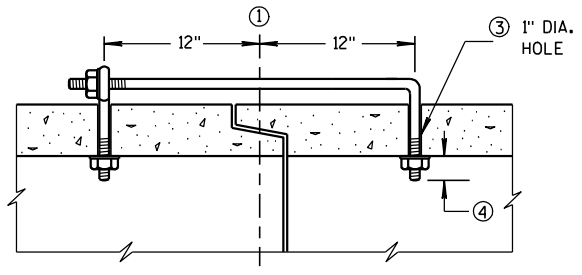
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

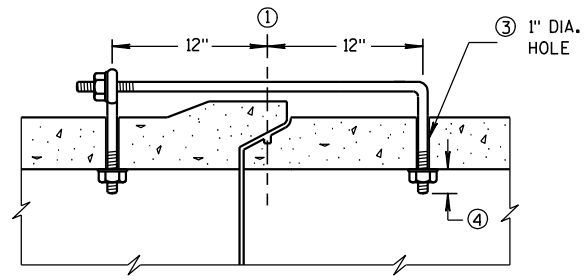
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

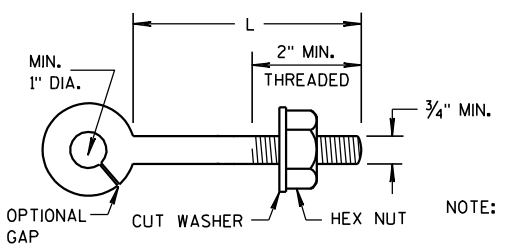


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

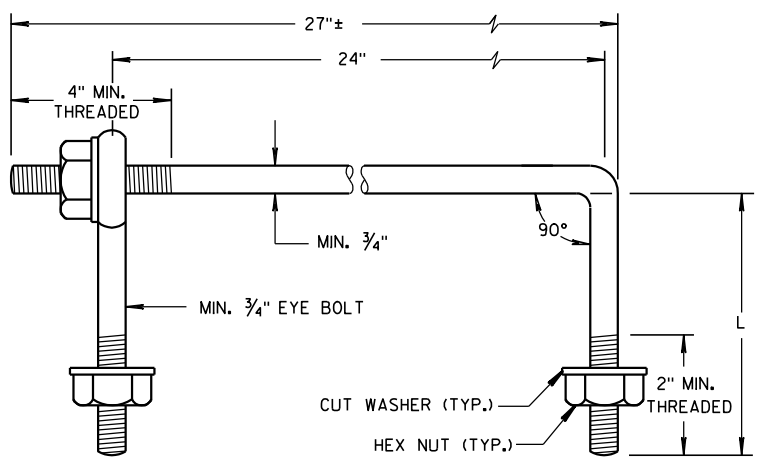
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

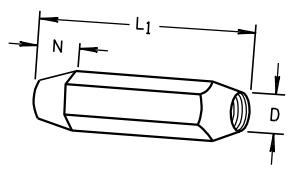
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

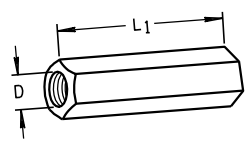
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

DIMENSIONS SHOWN ARE IN INCHES



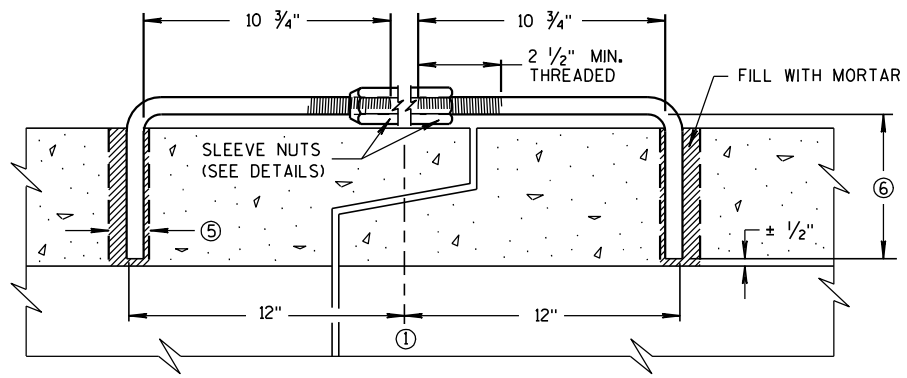
TAPERED



PLAIN

RIGHT AND LEFT THREADS

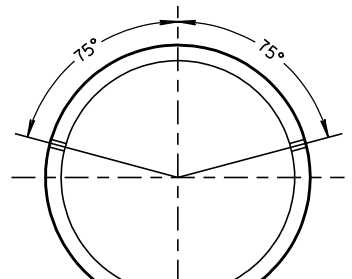
SLEEVE NUTS



LONGITUDINAL SECTION

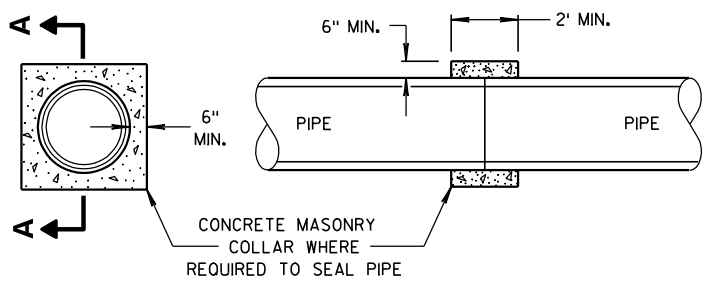
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

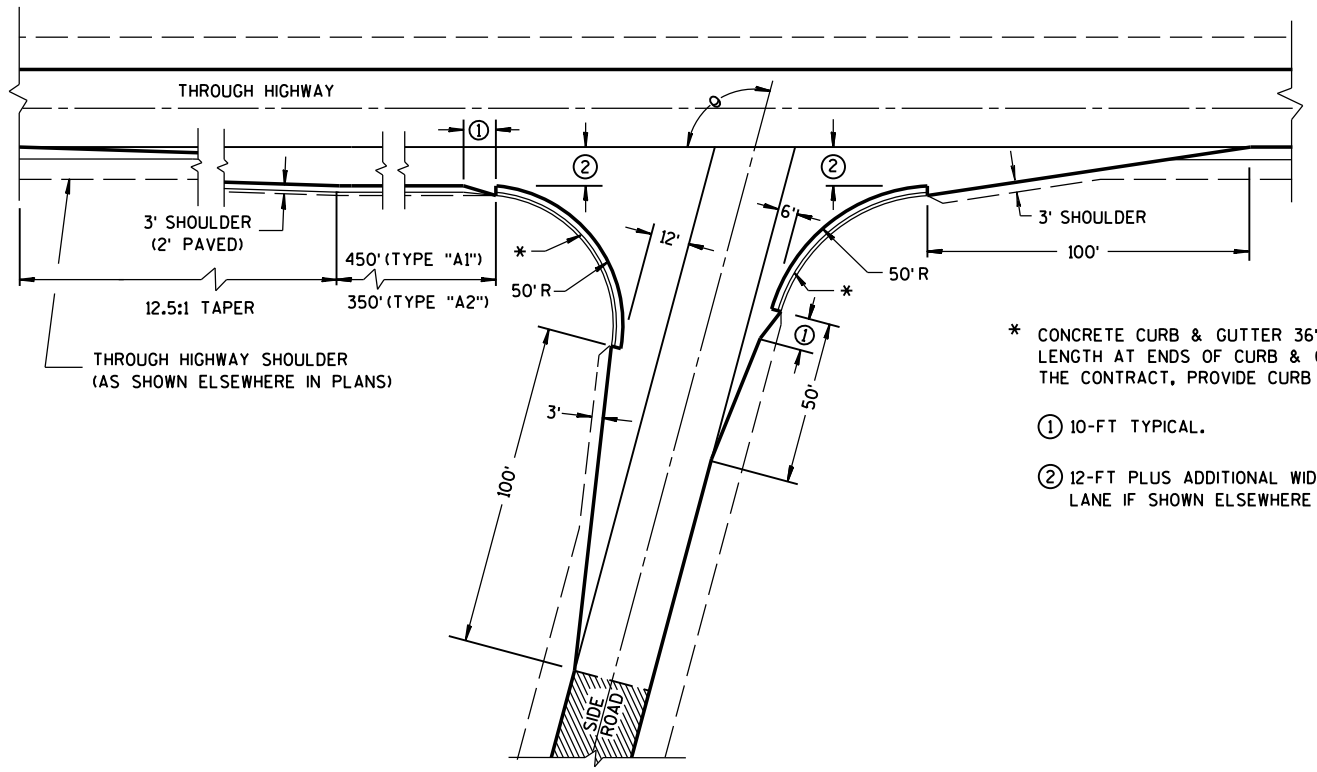
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

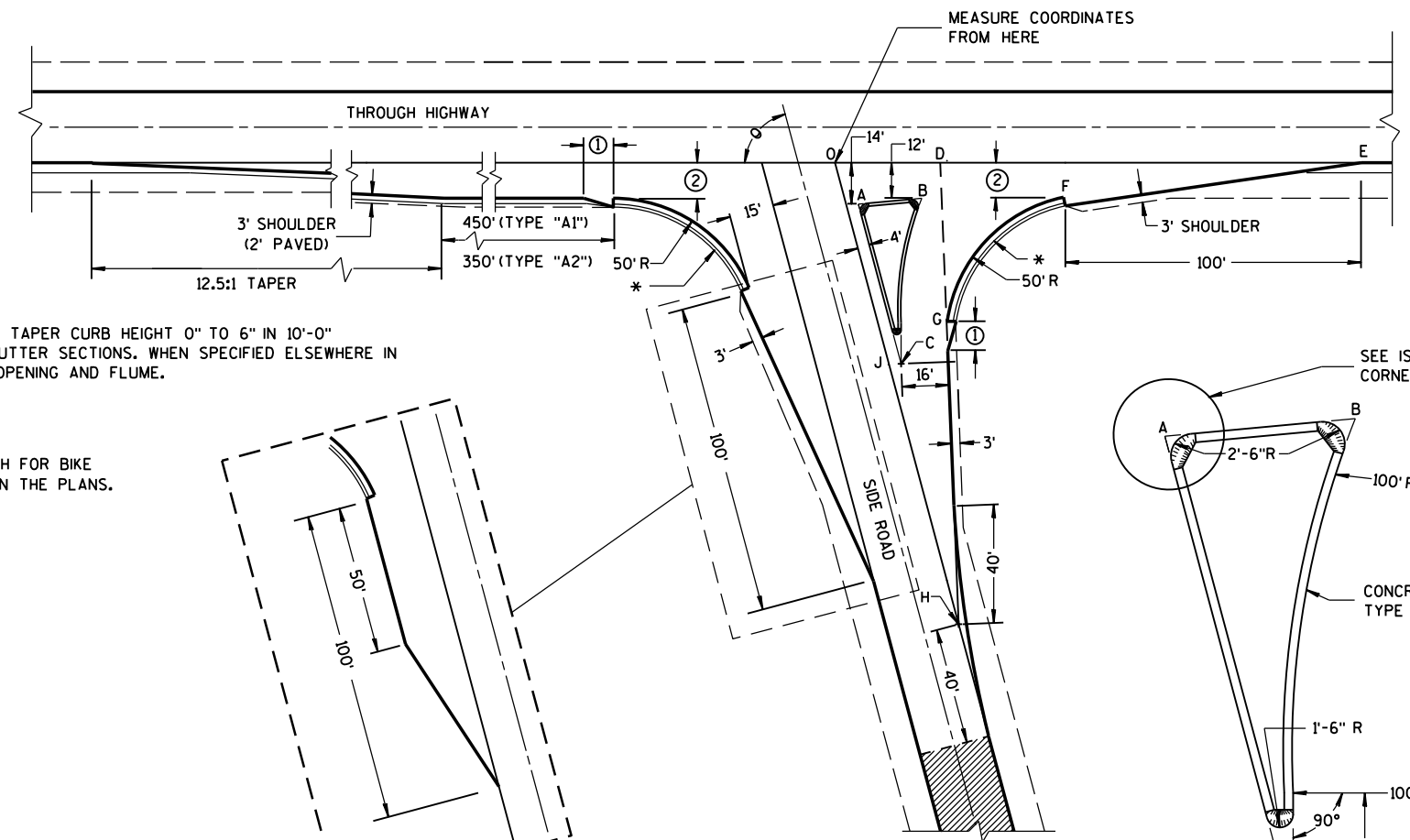
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
342
FHWA

6

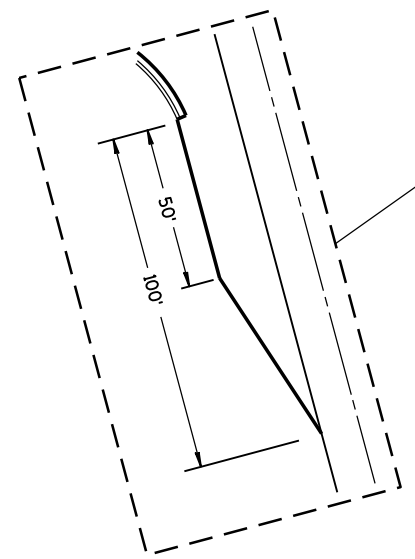
S.D.D. 8 F 4-7

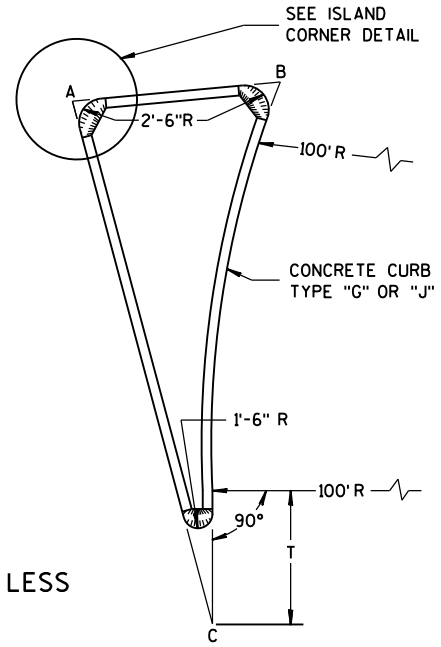


θ = MORE THAN 80°



θ = ACUTE ANGLES 80° OR LESS





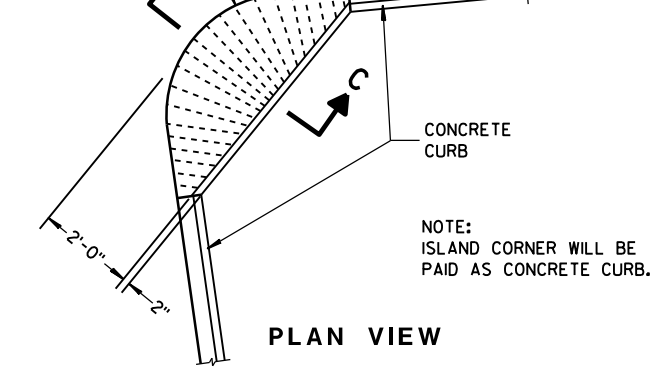
* CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

① 10-FT TYPICAL.

② 12-FT PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLANS.

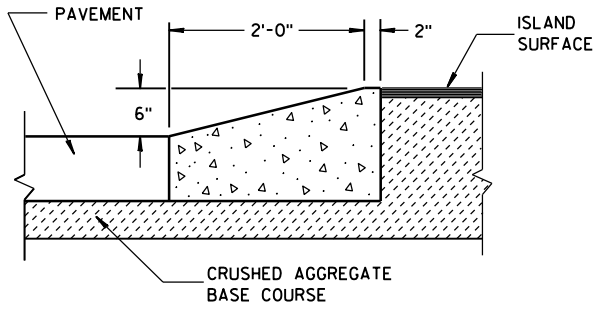
EXISTING PAVED SURFACE

SIDE ROAD WIDENING AND TAPER REQUIRED WHERE THE THROUGH HIGHWAY CARRIES TWO-WAY TRAFFIC
θ = ACUTE ANGLES 70° OR LESS



NOTE:
ISLAND CORNER WILL BE PAID AS CONCRETE CURB.

PLAN VIEW



SECTION C-C

ISLAND CORNER DETAIL

(TO BE CONSTRUCTED AT ALL ISLAND CORNERS)

TABLE OF DIMENSIONS FOR
VARIABLE SIDE ROAD INTERSECTION ANGLES
(INTERPOLATE VALUES FOR ANGLES NOT SHOWN)

ANGLE θ DEGREES	COORDINATES IN FEET (MEASURED FROM POINT "O") X / Y								LENGTH IN FEET				
	A	B	C	D	E	F	G	H	AB	AC	T	OJ	OH
60	12.7 / -14.0	44.9 / -12.0	46.4 / -72.4	41.9 / 0.0	205.0 / 0.0	104.6 / -12.0	64.0 / -75.5	85.0 / -147.1	32.3	67.4	4.9	85.9	169.9
65	10.9 / -14.0	39.0 / -12.0	37.8 / -71.6	39.4 / 0.0	196.1 / 0.0	95.7 / -12.0	54.1 / -71.5	70.5 / -151.3	28.2	63.6	8.5	80.9	166.9
70	9.4 / -14.0	33.9 / -12.0	29.8 / -70.1	37.4 / 0.0	188.3 / 0.0	87.8 / -12.0	45.6 / -67.5	56.1 / -154.2	24.6	59.7	11.5	76.1	164.1
75	7.9 / -14.0	29.3 / -12.0	22.3 / -67.9	35.7 / 0.0	181.2 / 0.0	80.7 / -12.0	38.2 / -63.4	41.8 / -155.9	21.5	55.8	13.8	71.4	161.4
80	6.5 / -14.0	25.4 / -12.0	15.6 / -65.2	34.4 / 0.0	174.8 / 0.0	74.4 / -12.0	31.8 / -59.3	27.6 / -156.5	18.9	52.0	15.6	66.9	158.9

TYPE "A1" & "A2" SIDE ROAD INTERSECTION DETAILS

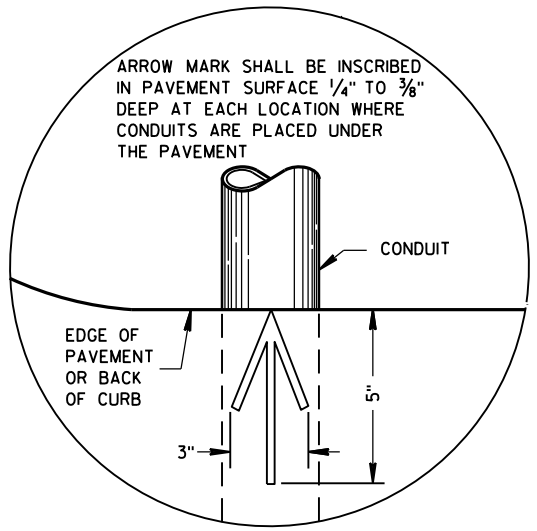
AT-GRADE SIDE ROAD INTERSECTION, TYPE "A1" & "A2"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/18/12 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

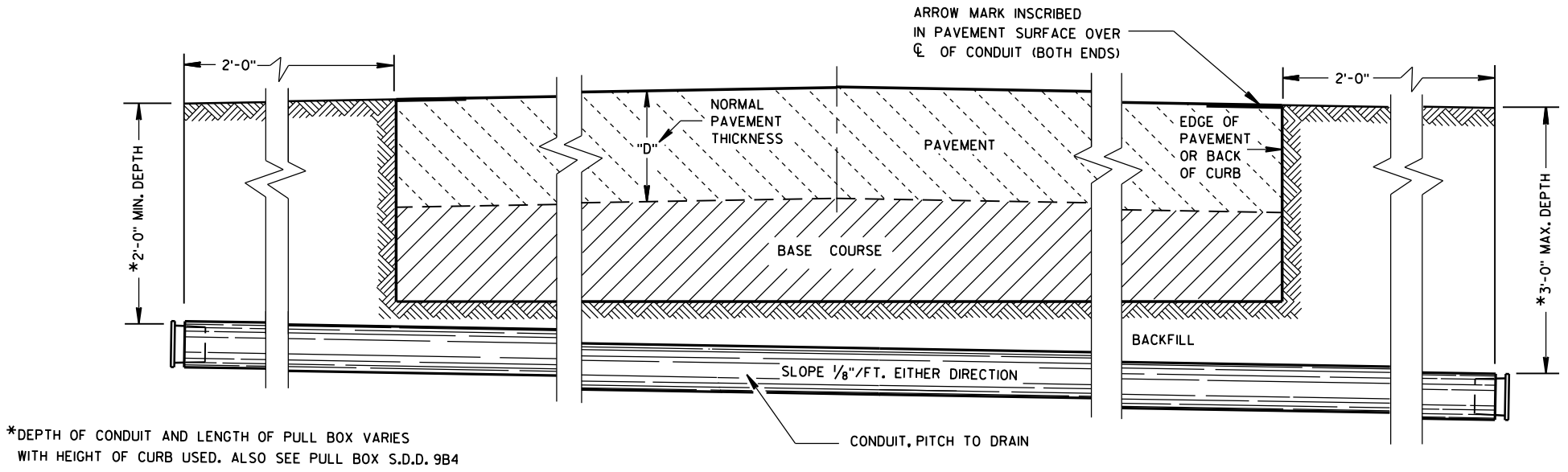
S.D.D. 9 A 1-13b

6



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

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

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

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

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		NON-CONDUCTIVE PULL BOX	
BOX DIAMETER ** (INSIDE)	A	24	24
BOX OVERALL OUTSIDE DIAMETER	B	27	27
BOX LENGTH	C	36	42
FRAME OPENING	D	22 1/2	22 1/2
WEIGHT IN POUNDS *			
COVER		50	50
BOX ONLY		75	85

* THE ACTUAL WEIGHT OF THE COVER OR BOX ONLY MAY VARY NOT TO EXCEED 100 LBS INDIVIDUALLY.

** DIAMETER VARIES FROM TOP TO BOTTOM WITH THE DIAMETER LARGER AT THE BOTTOM TO PREVENT FROST HEAVE

GENERAL NOTES

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

ALL BOXES, FRAMES AND COVERS SHALL BE SUITABLE FOR TIER 15 LOADING AS SPECIFIED IN ANSI/SCTE 77.

PROVIDE AN OPENING FOR TOOL ASSISTED COVER REMOVAL NOT LARGE ENOUGH TO PERMIT PASSAGE OF A SPHERE MORE THAN 1/2" DIAMETER

ENSURE COVER SURFACE IS SKID RESISTANT WITH A COEFFICIENT OF FRICTION OF AT LEAST 0.5 AND VERTICAL SURFACE DICONTINUITIES LESS THAN 1/4".

COVER SHALL BE MAGNETICALLY LOCATABLE.

BOXES AND EXTENSIONS ARE TRIMMABLE FOR CUSTOM LENGTHS. TRIMMED PIECES SHALL MAINTAIN A UNIFORM LENGTH.

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".

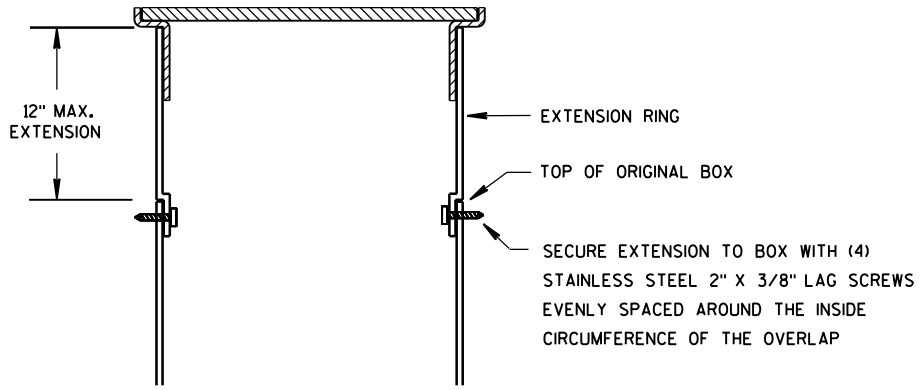
THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

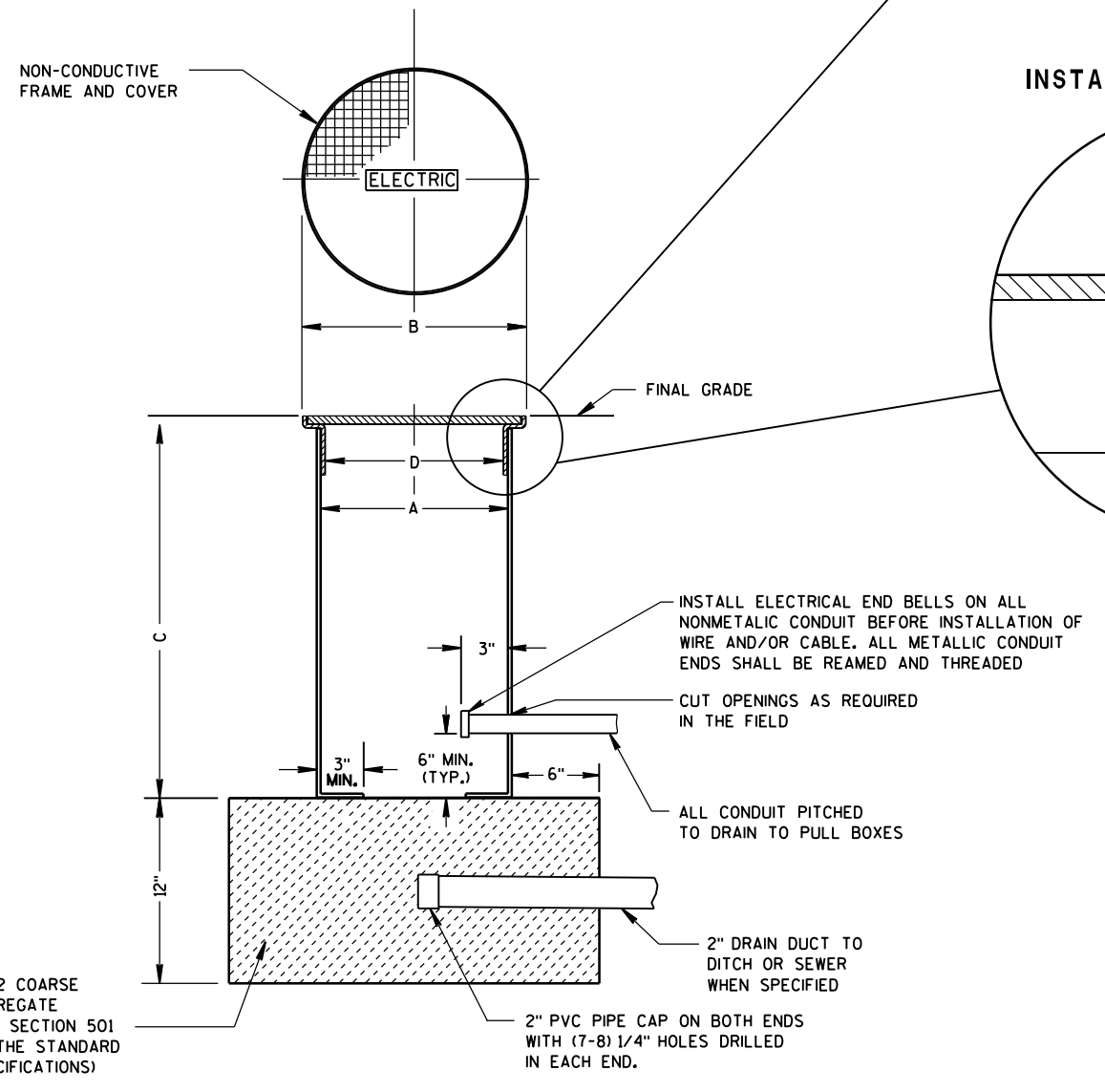
ENTIRE BOX MUST BE CONSTRUCTED OF NON-CONDUCTIVE MATERIALS WITH THE EXCEPTION OF STAINLESS STEEL FASTENERS AND MAGNETIC LOCATABLE DEVICE.

WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

LABEL ON COVER SHALL READ "ELECTRIC" FOR SIGNAL AND LIGHTING SYSTEMS, "WISDOT ITS" FOR COMMUNICATIONS AND ITS EQUIPMENT SYSTEMS.

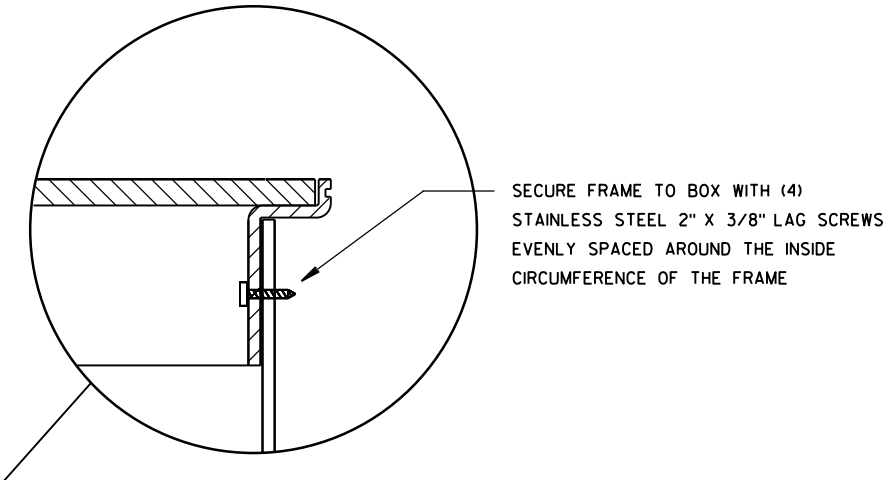


BOX EXTENSION

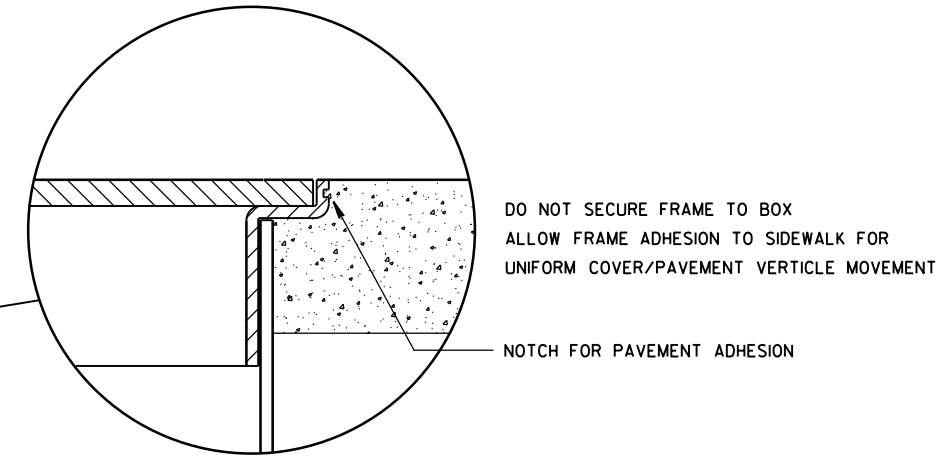


NON-CONDUCTIVE PULL BOX

INSTALLED IN SOD OR CRUSHED AGGREGATE



INSTALLED IN SIDEWALK



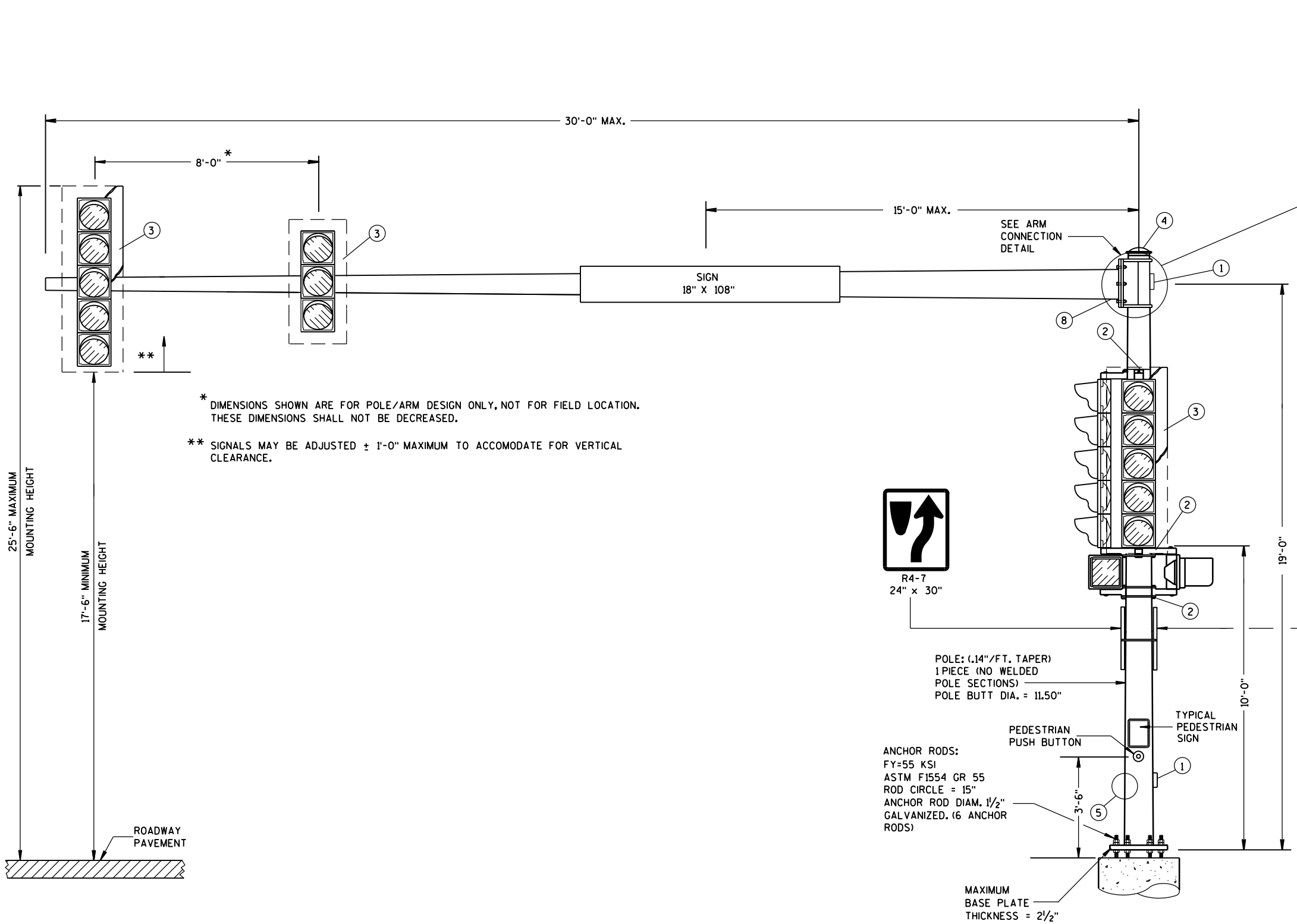
PULL BOX NON-CONDUCTIVE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

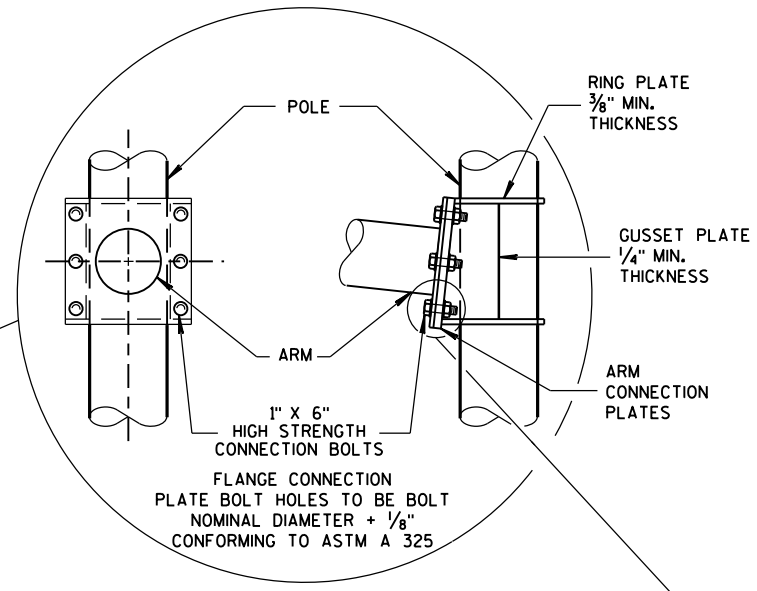
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S.D.D. 9 B 16-1

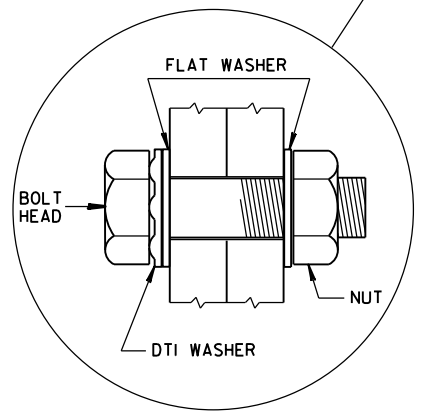


* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

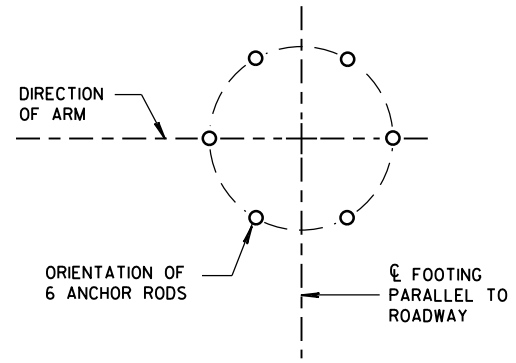
** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL



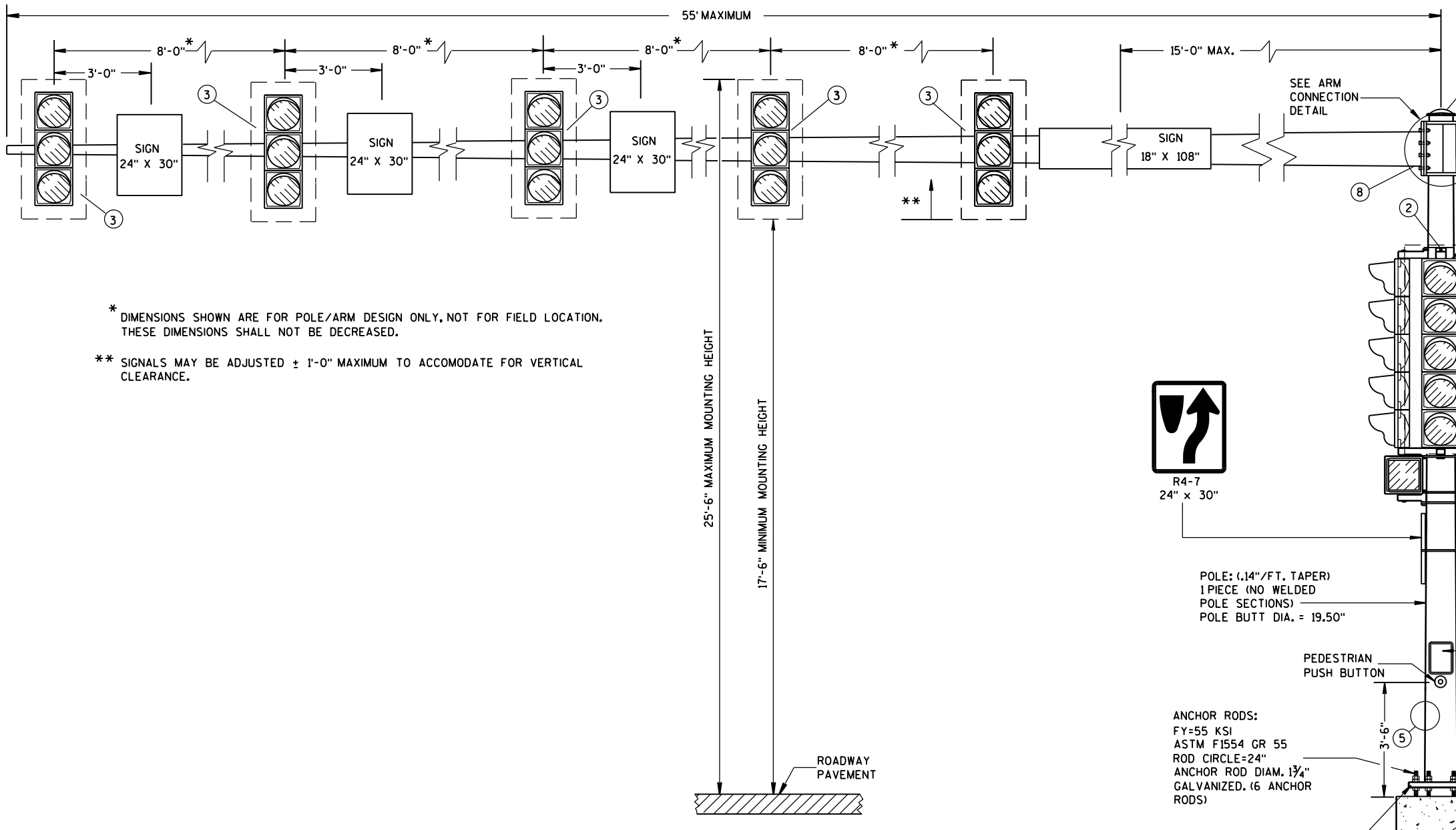
ANCHOR ROD LOCATION

(MAXIMUM LOAD)

TYPE 9 POLE 15'- 30' MONOTUBE ARM

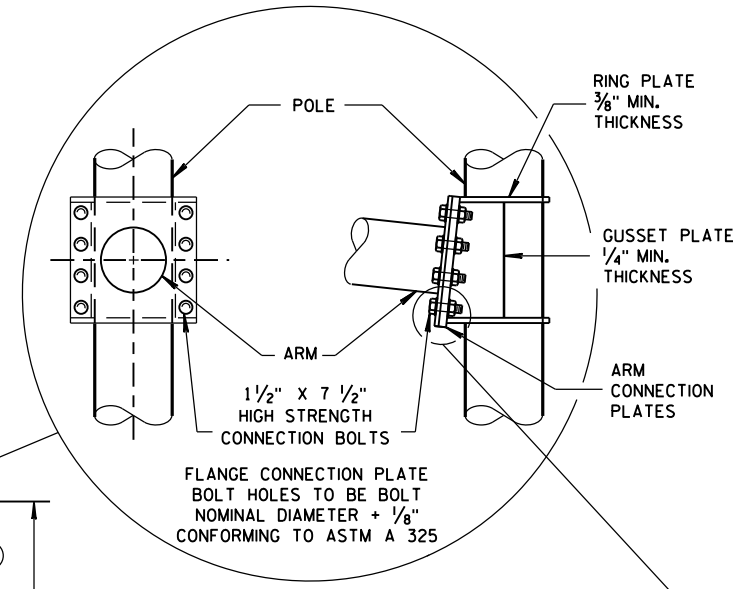
TYPE 9 POLE 15' - 30' MONOTUBE ARM	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May, 2016 DATE FHWA	/S/ Ahmet Demirbilek STATE ELECTRICAL

S.D.D. 9 E 8-8a

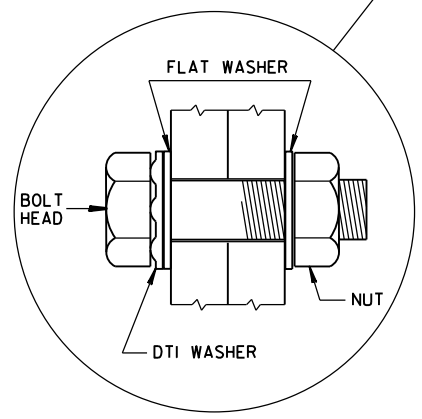


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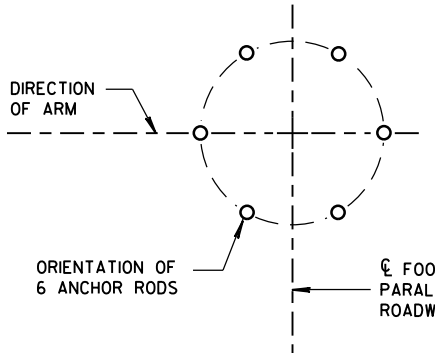
** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.



8 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL



ANCHOR ROD LOCATION

(MAXIMUM LOAD)

TYPE 12 POLE 35'- 55' MONOTUBE ARM

TYPE 12 POLE 35' - 55' MONOTUBE ARM
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED May, 2015 — DATE /S/ Ahmet Demirbilek — STATE ELECTRICAL 347 FHWA

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S.D.D. 9 E 8-8c

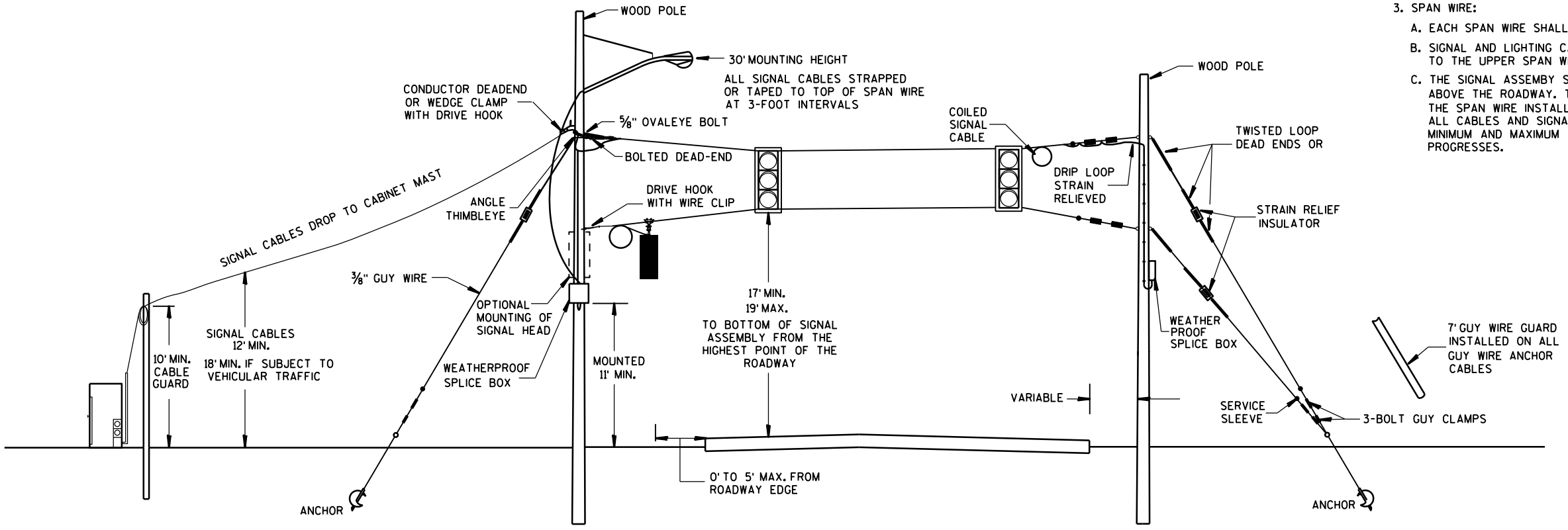
GENERAL NOTES

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

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.

2. SIGNAL FACES:
   A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.

3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.



SPAN WIRE
TEMPORARY SIGNALS

MINIMUM POLE LENGTHS	POLE BURIEL DEPTHS
25'	5'
30'	6'
35'	7'
40'	8'
45'	9'

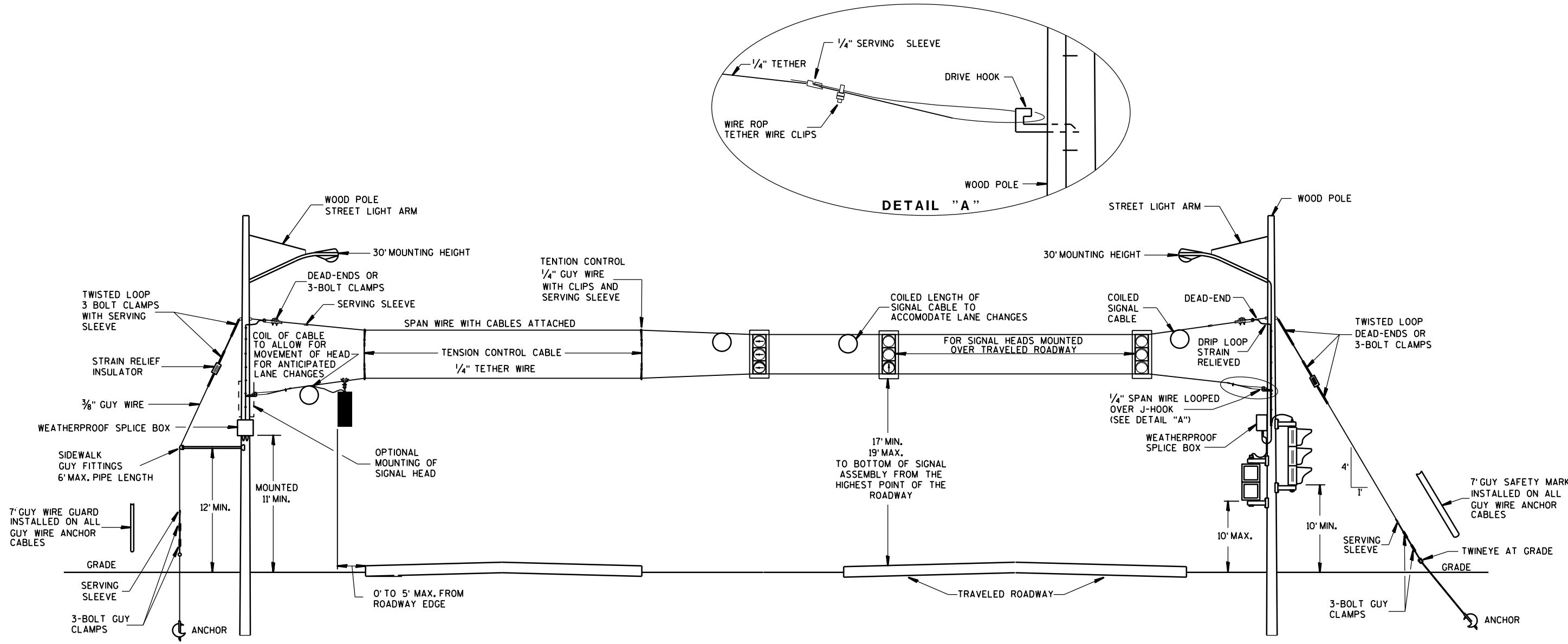
SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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S.D.D. 9 G 1-4a



GENERAL NOTES

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

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   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
   E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.
3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
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SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

MINIMUM POLE LENGTHS	CLASS	MIN. BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

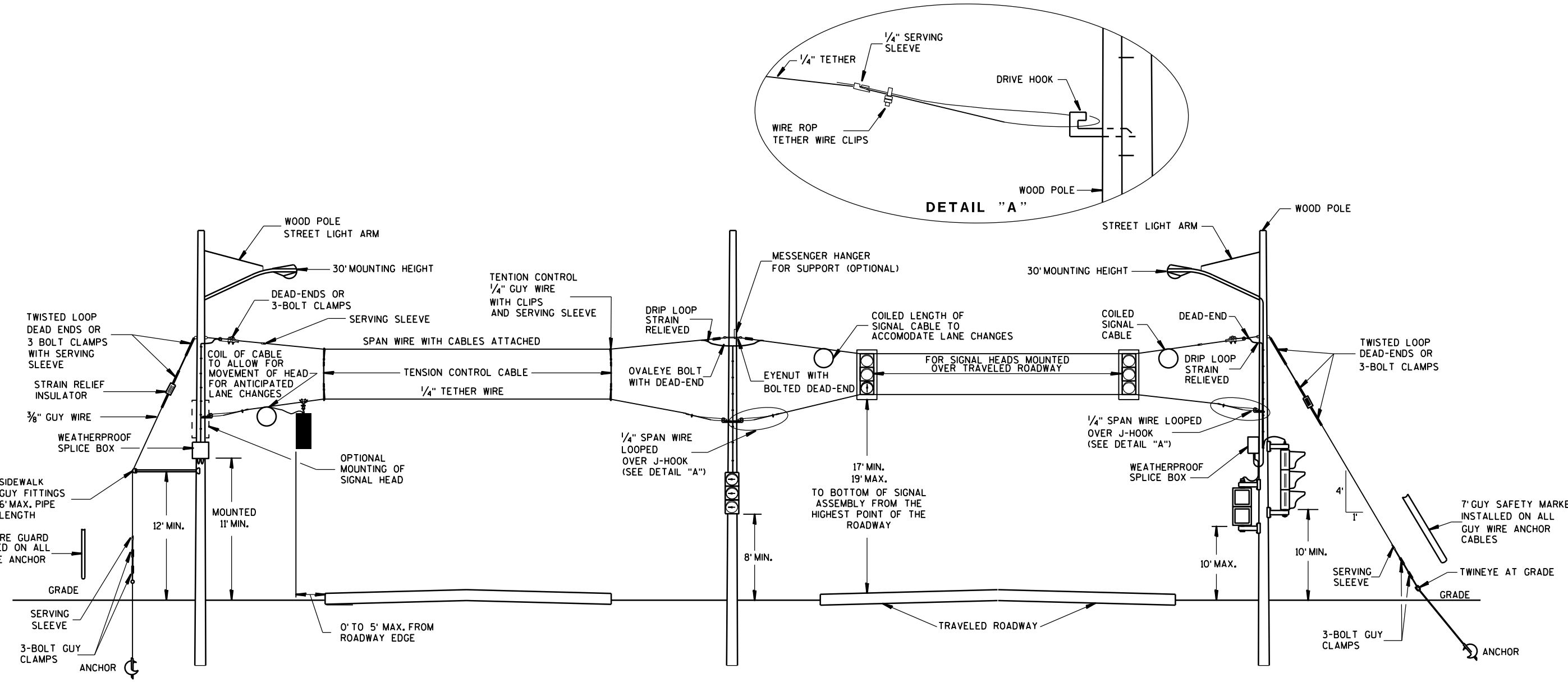
SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
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S.D.D. 9 G 1-4b



SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

GENERAL NOTES

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   C. THE SIGNAL ASSEMBY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.

MINIMUM POLE LENGTHS	CLASS	MIN. BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

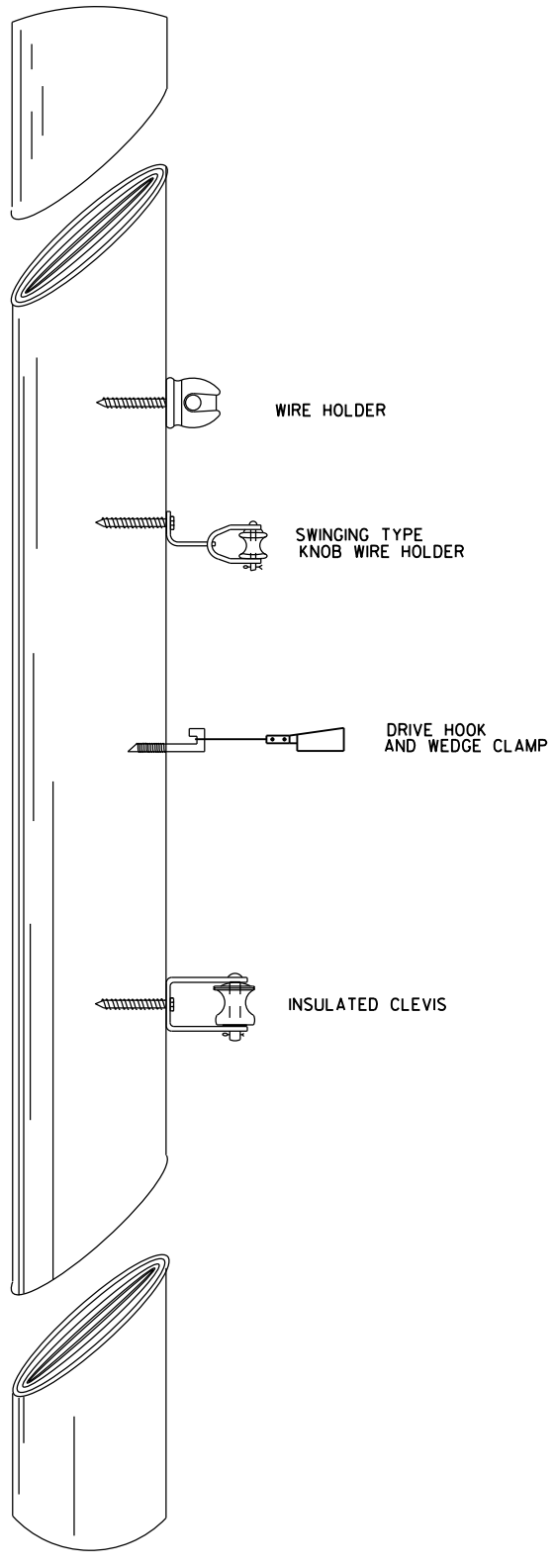
SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

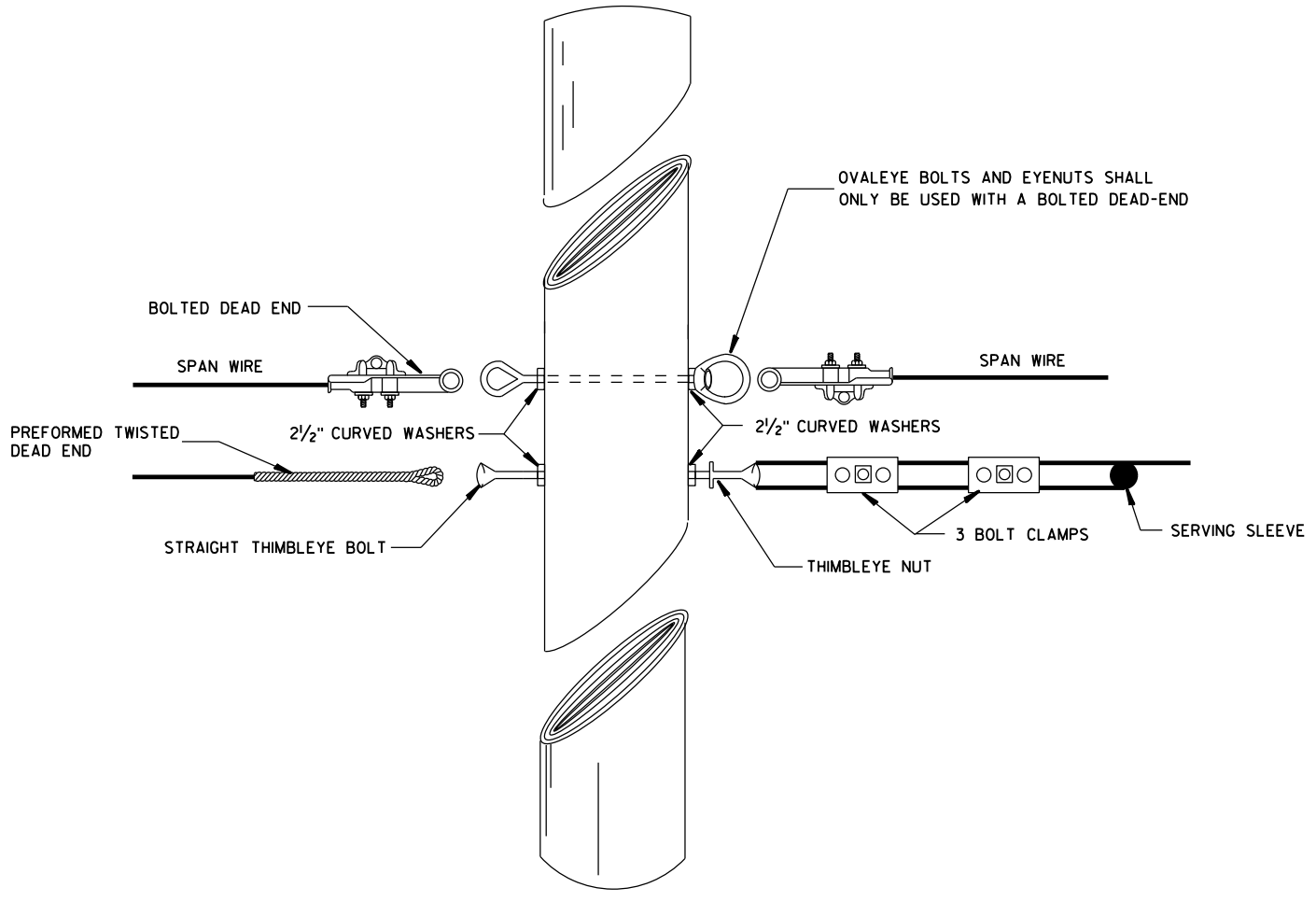
APPROVED
June. 2015 — DATE
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S.D.D. 9 G 1-4c



TYPICAL CABLE HANGERS



TYPICAL DEAD-ENDING

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June, 2015
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL 351

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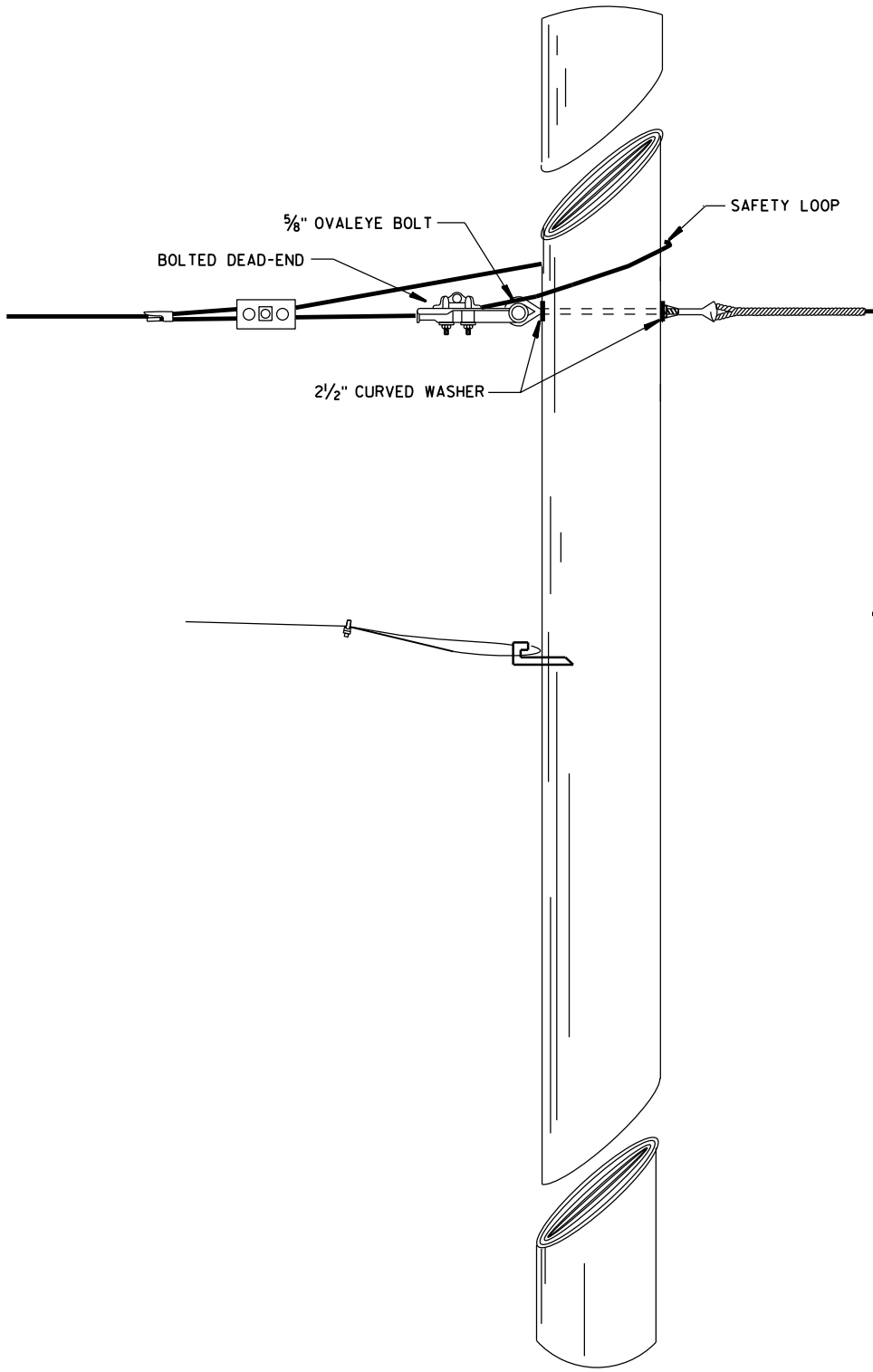
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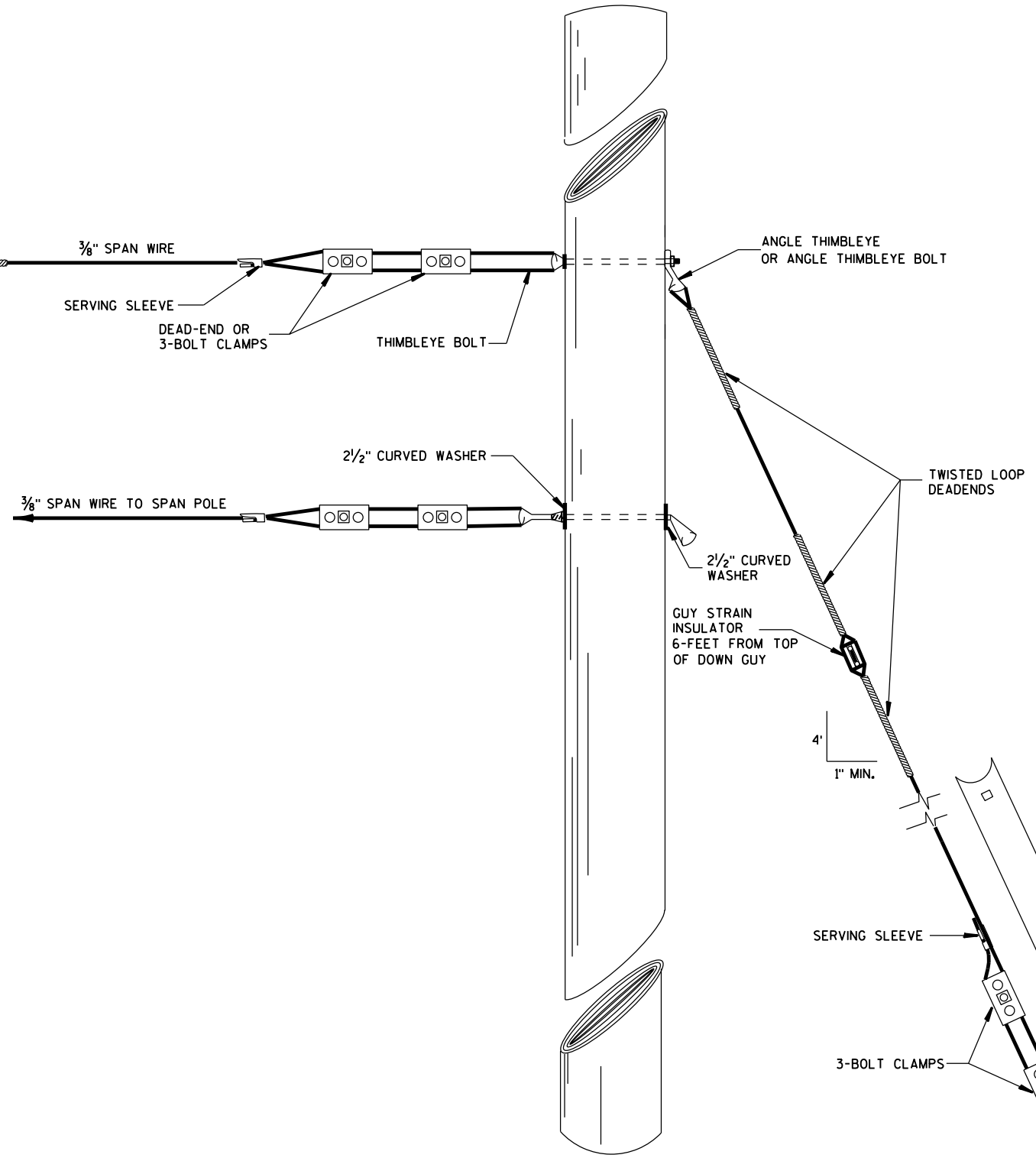
S.D.D. 9 G 1-4d

GENERAL NOTES

1. USE ¾" DRILL IN WOOD POLE TO PROVIDE HOLE FOR ⅝" BOLTS.
2. SAFTY LOOP REQUIRED ON EACH END OF ALL SPAN WIRES.



SPAN WIRE POLE



GUY POLE

TYPICAL DEAD-ENDINGS OR GUYING

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

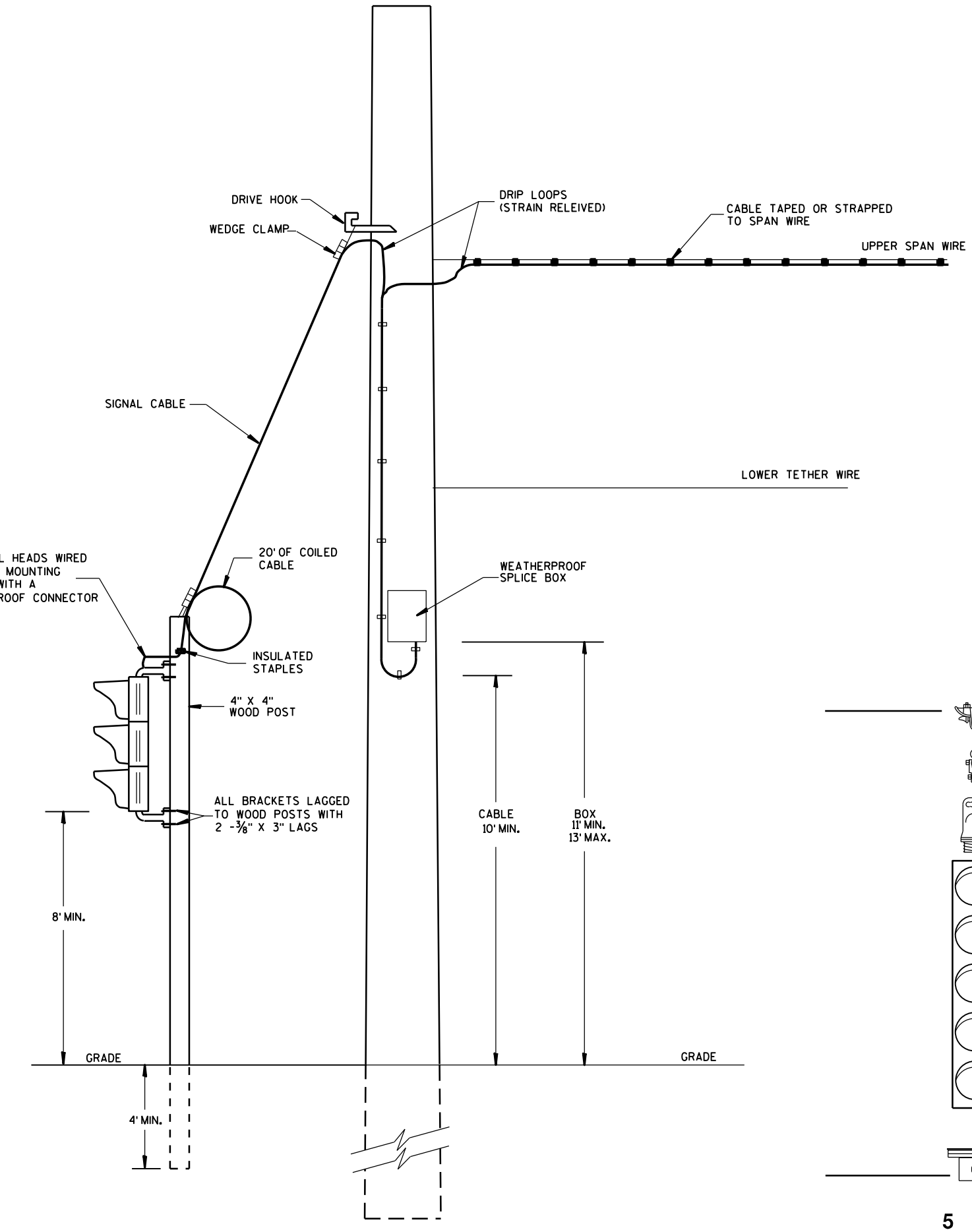
June. 2015
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL

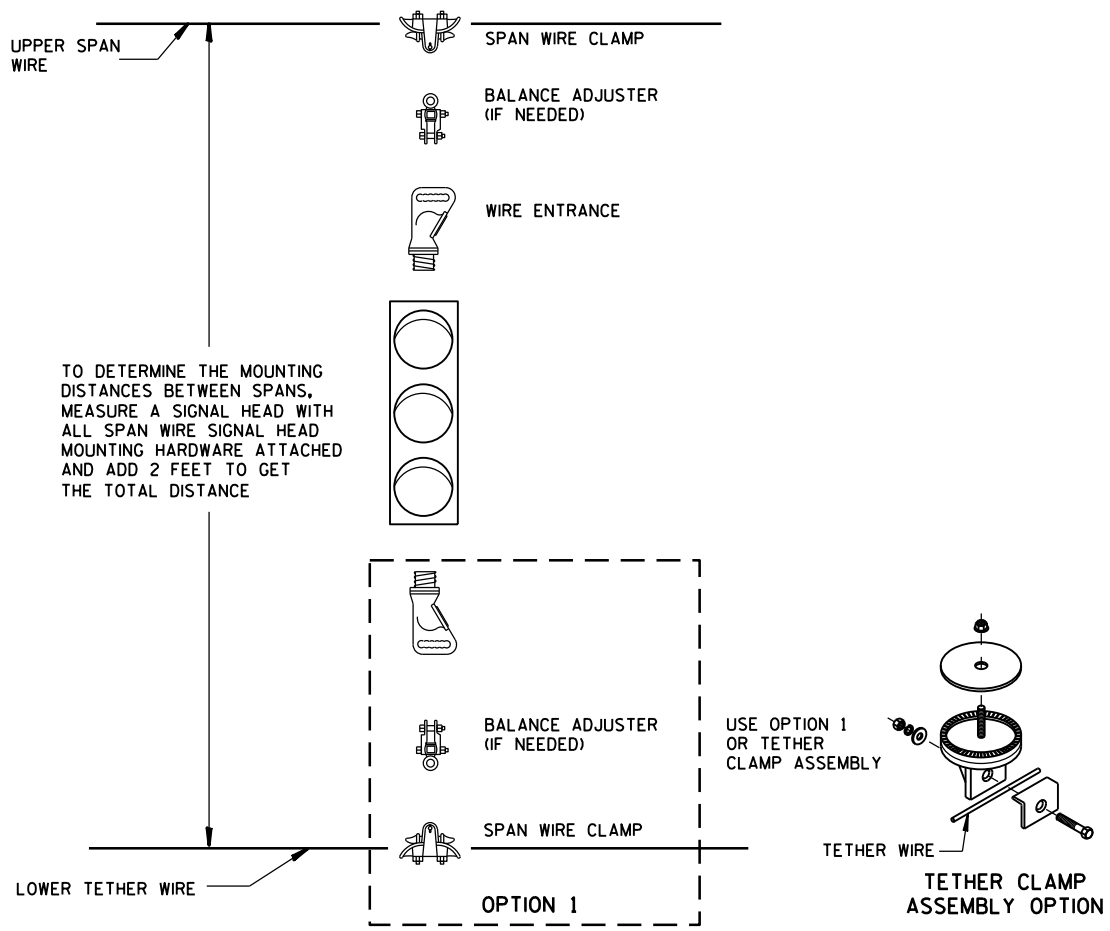
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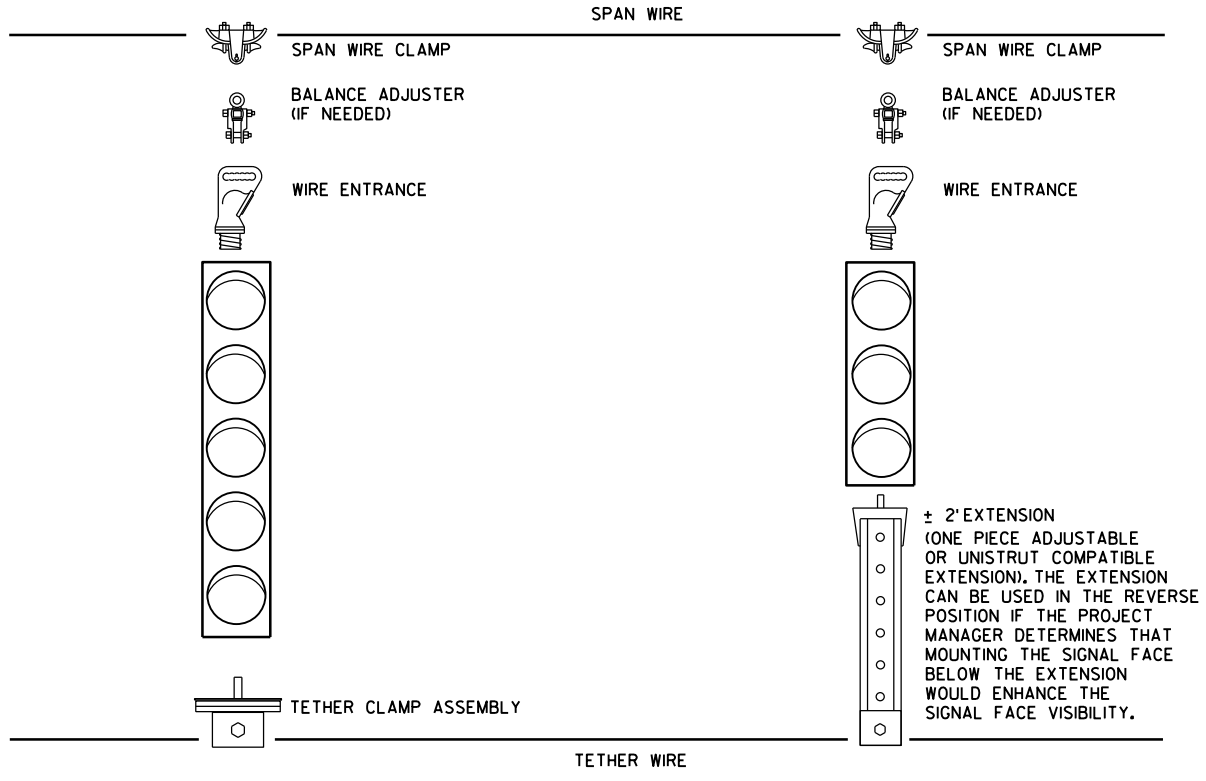


TYPICAL DROP TO TEMPORARY MOVEABLE SIGNAL



TETHER CLAMP ASSEMBLY OPTION

TYPICAL SPAN WIRE MOUNTING HARDWARE



5 SECTION VERTICAL WITH 3 SECTION VERTICAL ON ONE SPAN WIRE

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June. 2015
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL 353

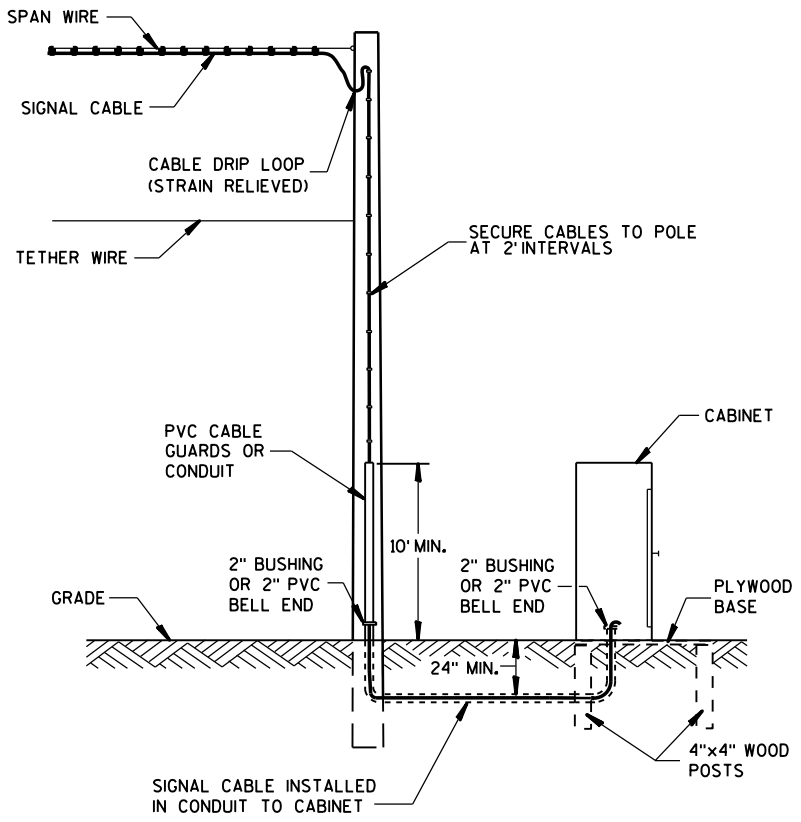
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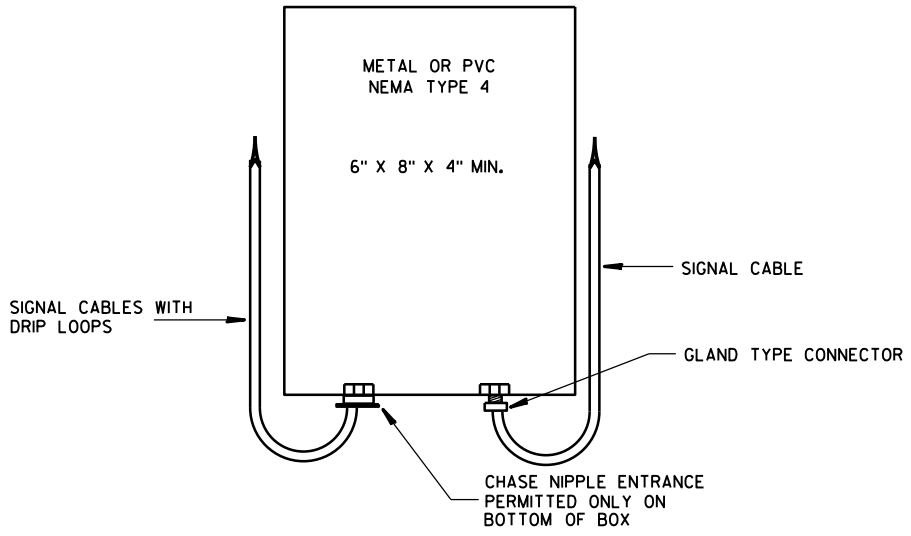
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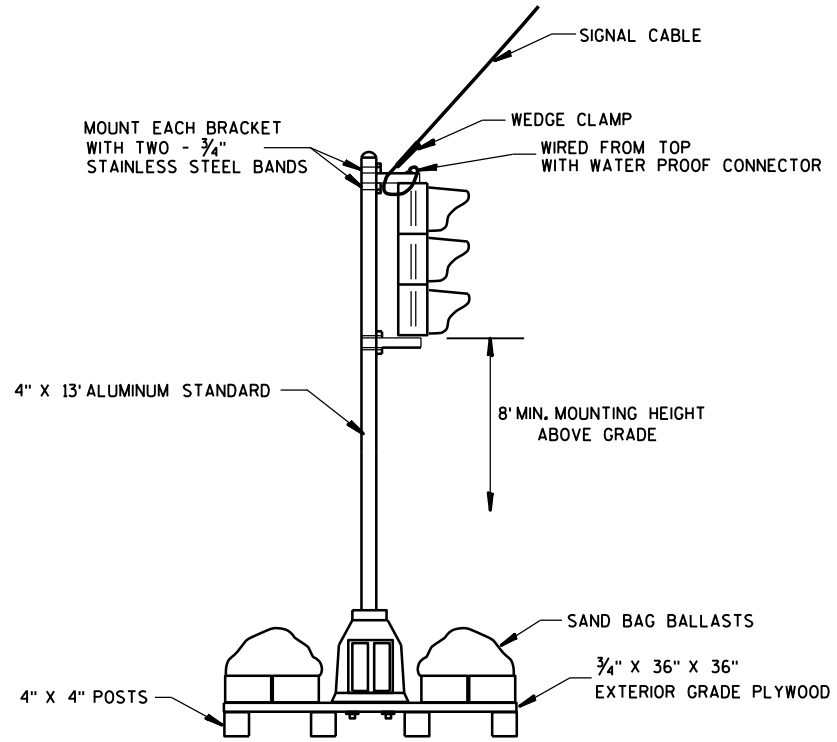
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S.D.D. 9 G 1-4f

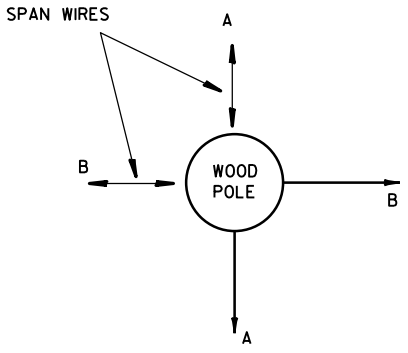




SPLICE BOX

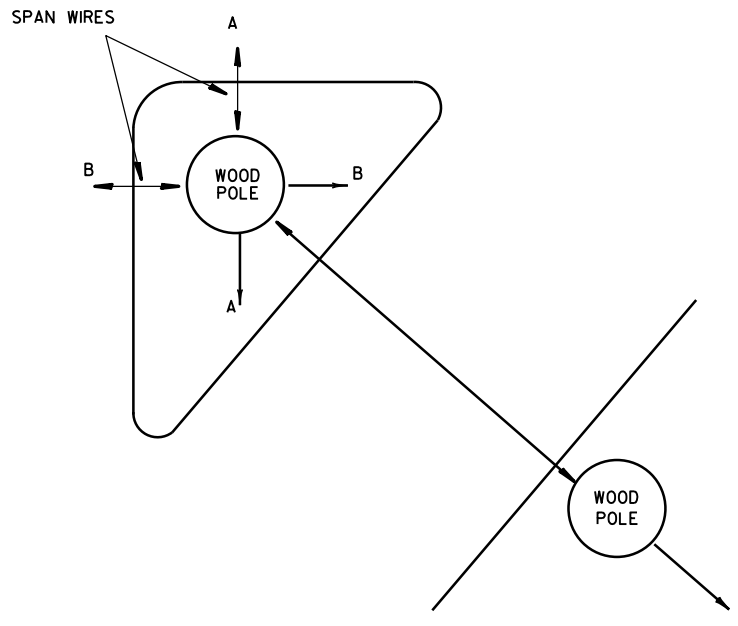


TYPICAL SKID TYPE TEMPORARY

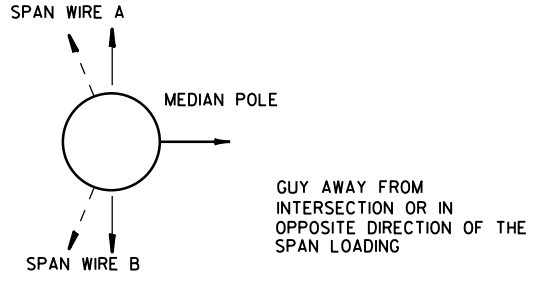


ALL DOWN OR SIDEWALK GUYS
SHALL BE INSTALLED IN THE
OPPOSITE DIRECTION OF THE
STRAIN OF THE SPAN WIRE

CORNER POLES



ISLAND POLES



MEDIAN POLES

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 G 1-4g

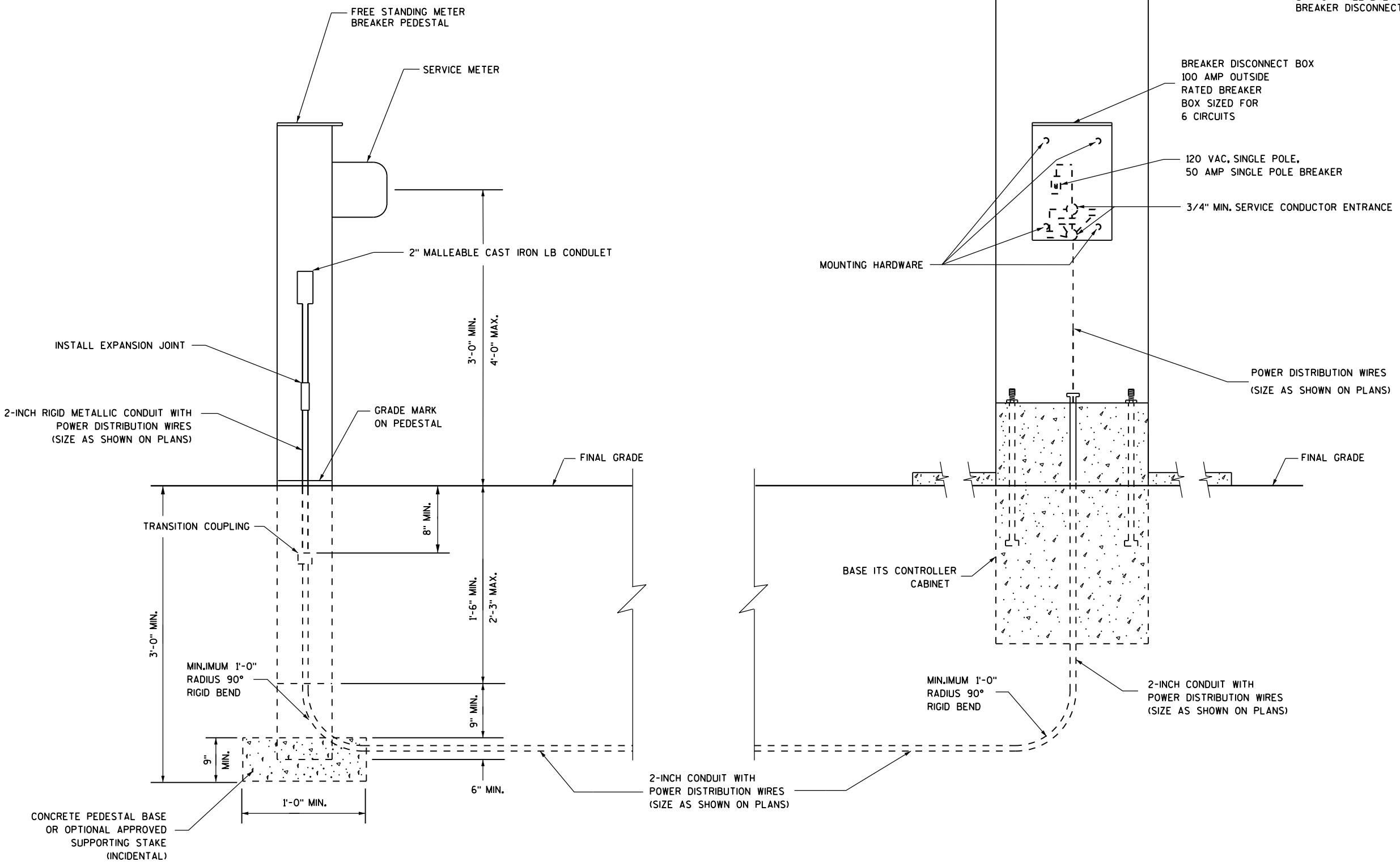
6

S.D.D. 9 G 1-4g

GENERAL NOTES

MINIMUM REQUIREMENT SHOWN. ADDITIONAL BREAKERS MAY BE REQUIRED.

UP TO THREE BREAKERS WILL BE CONSIDERED INCIDENTAL TO THE ITEM BREAKER DISCONNECT BOX.



2 CIRCUIT ELECTRICAL SERVICE METER BREAKER PEDESTAL AND BREAKER DISCONNECT BOX

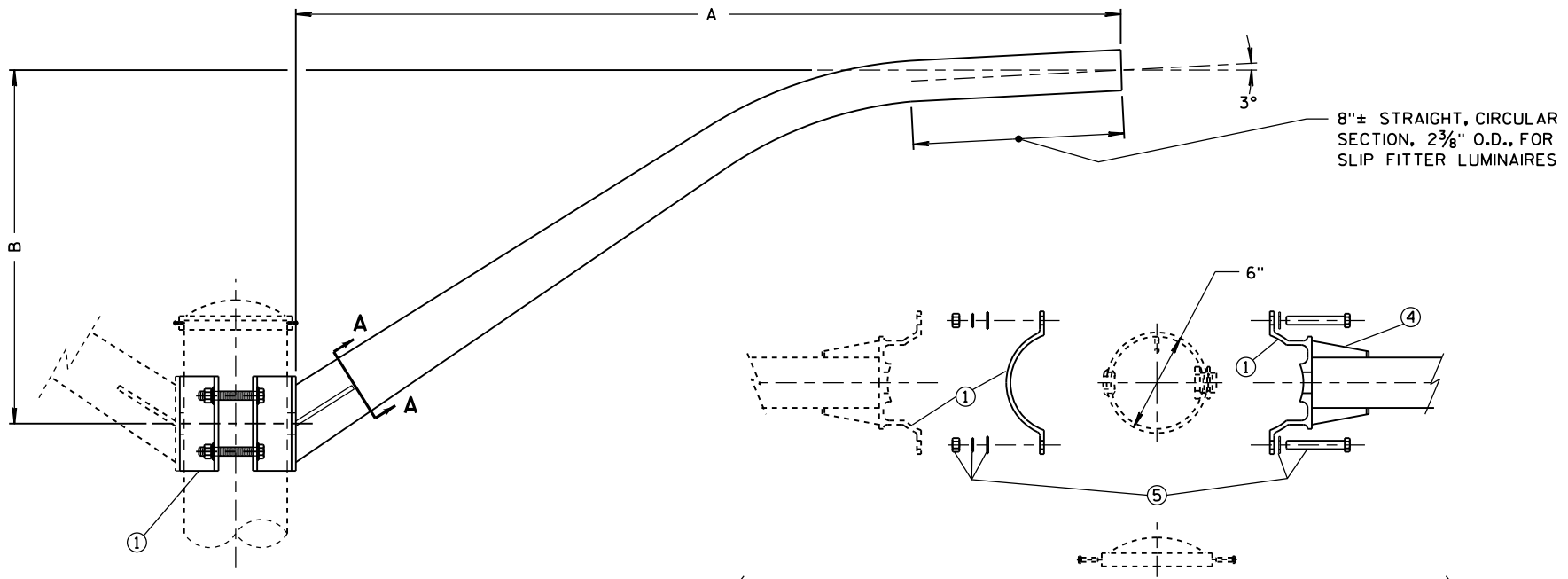
2 CIRCUIT ELECTRICAL SERVICE METER BREAKER PEDESTAL AND BREAKER DISCONNECT BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

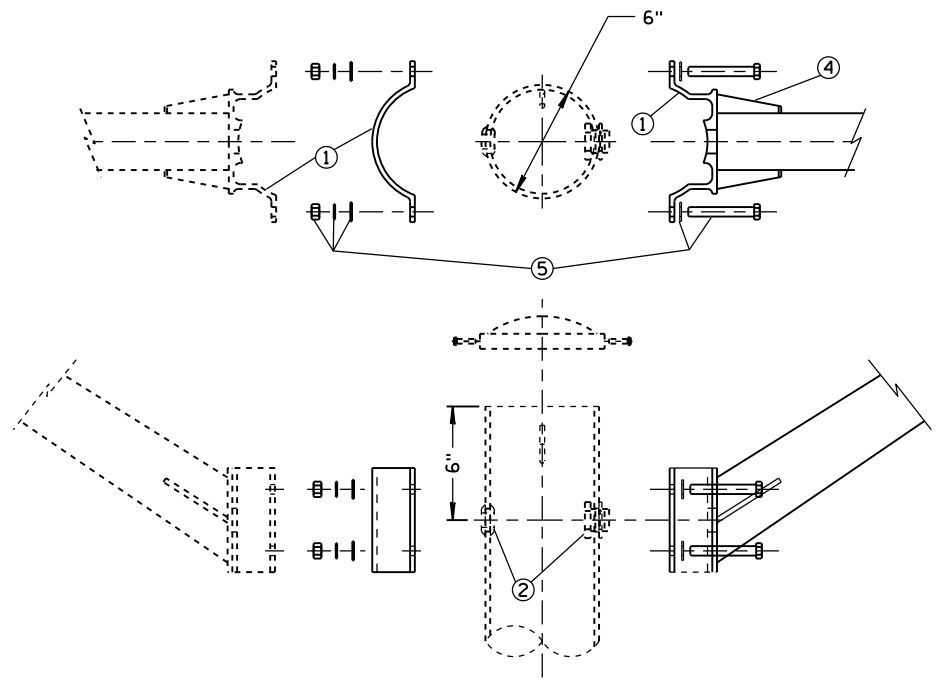
6

S.D.D. 9 H 4-1



LUMINAIRE ARMS, SINGLE MEMBER, 6-INCH CLAMP - FOR POLES, TYPE 7, A OR E

VARIOUS LENGTHS (SEE TABLE)



CLAMP ASSEMBLY

SINGLE MEMBER CLAMP SHOWN

TYPE	DIM. A NOMINAL ARM LENGTH (FT)	DIM. B APPROX. RISE (FT)
SINGLE MEMBER	4.0	2.0
SINGLE MEMBER	8.0	3.0
SINGLE MEMBER	10.0	3.0
SINGLE MEMBER	15.0	3.0

GENERAL NOTES

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

ARMS AND CLAMP EXTRUSIONS SHALL BE CONSTRUCTED OF NATURAL FINISH 6063-T6 ALUMINUM.

HEAT TREATMENT OF WELDS IN STRUCTURAL AREAS IS REQUIRED.

ALL THREADED FASTENER COMPONENTS SHALL BE STAINLESS STEEL. NUTS SHALL BE HEX NUTS. BOLTS SHALL BE HEX HEAD. ALL THREADED SURFACES SHALL BE COATED WITH ANTI-SEIZE COMPOUND PRIOR TO INSTALLATION.

LUMINAIRE LOADING FOR DESIGN CALCULATION SHALL BE 50 LBS. IN WEIGHT AND 1.5 SQ. FT. FOR E.P.A..

① CLAMPS SHALL BE EXTRUDED ALUMINUM.

② RACE WAY: 1⅜" FIELD DRILLED HOLE WITH 1" CHASE NIPPLE AND NUT (OR NEOPRENE GROMMET) PER EACH REQUIRED LUMINAIRE ARM. PROVIDE 1½" HOLE IN CLAMP EXTRUSION TO CONTINUE RACEWAY.

③ STIFFENER

④ GUSSETS REQUIRED.

⑤ CLAMP BOLT ASSEMBLY (BOLT - ½"-13 UNC, 2 EACH - FLAT WASHER, LOCK WASHER, NUT) - 4 EACH PER CLAMP.

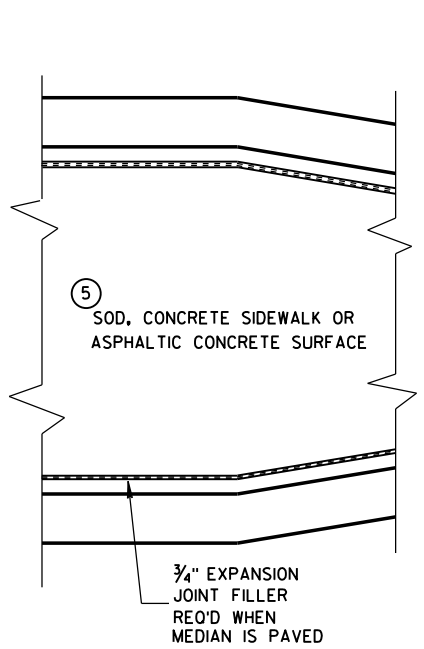
LUMINAIRE ARMS, SINGLE MEMBER 6-INCH CLAMP

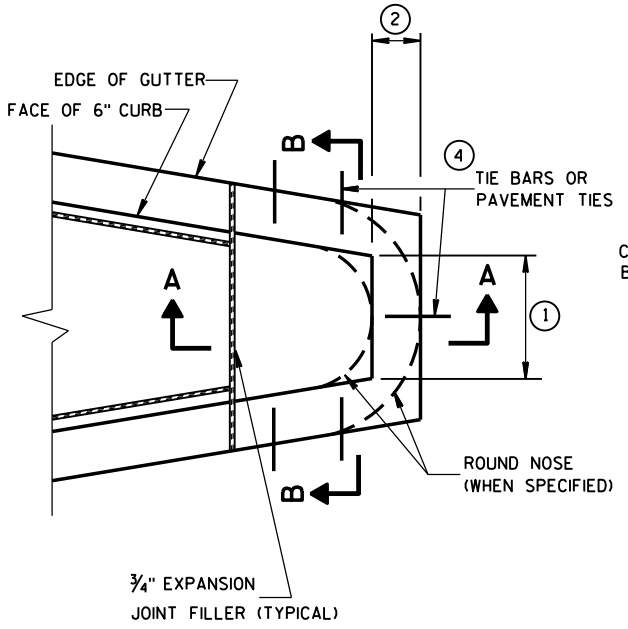
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

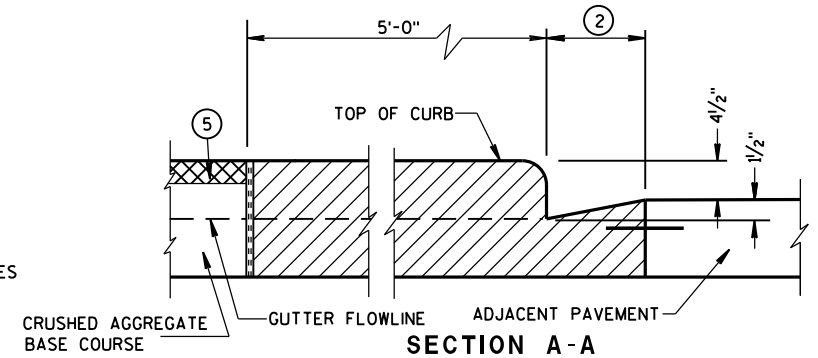
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

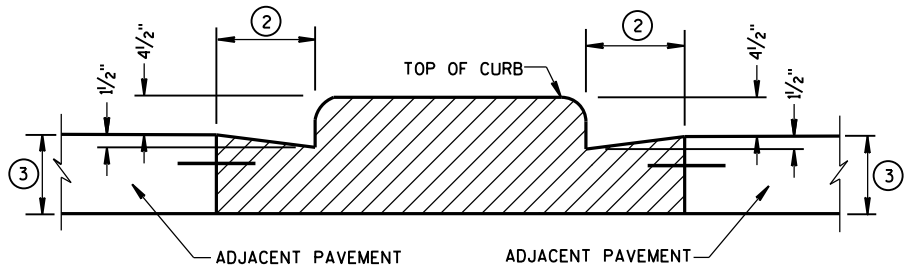
S.D.D. 10 A 18-5a







SECTION A-A



SECTION B-B

CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

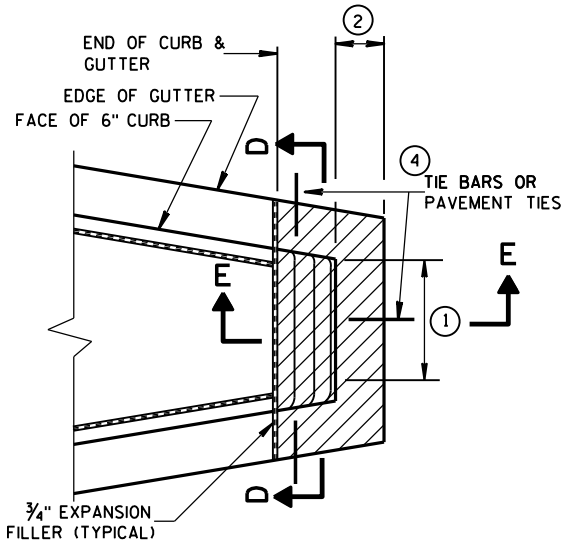
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

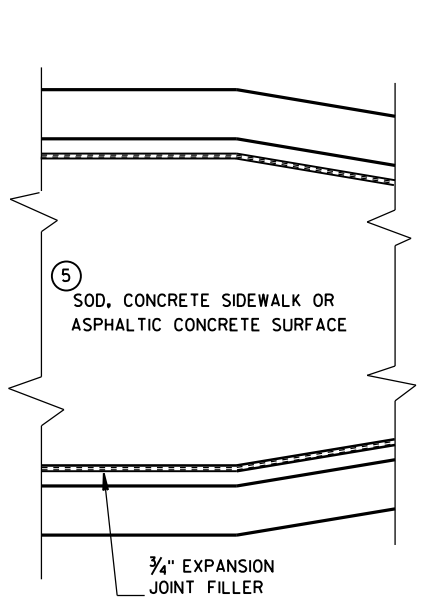
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

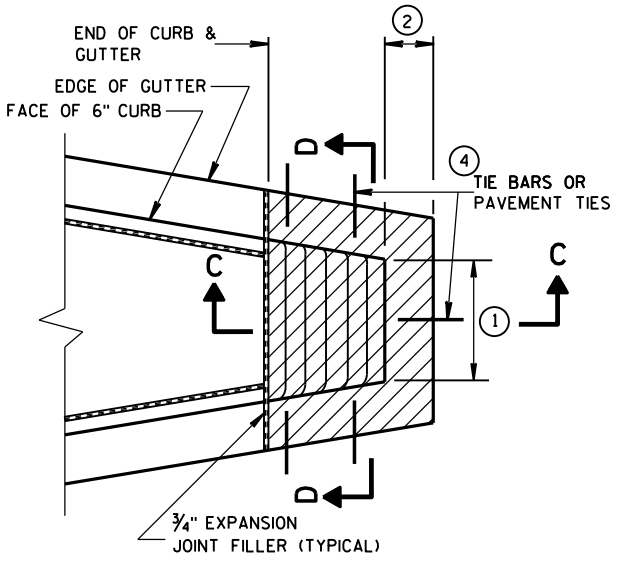
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

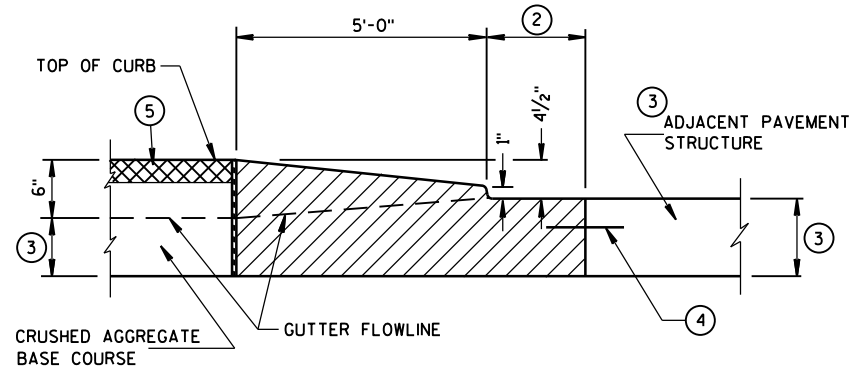
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



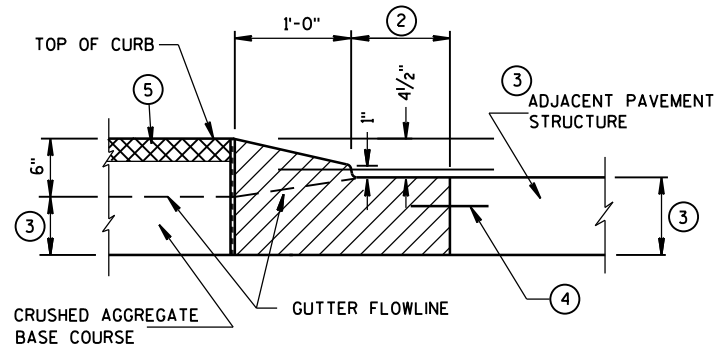




CONCRETE MEDIAN SLOPED NOSE TYPE 1

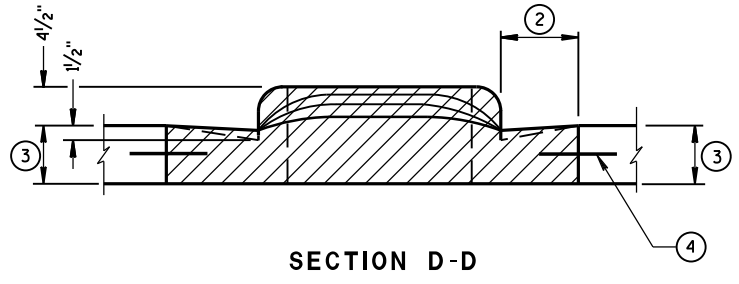


SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2



SECTION D-D

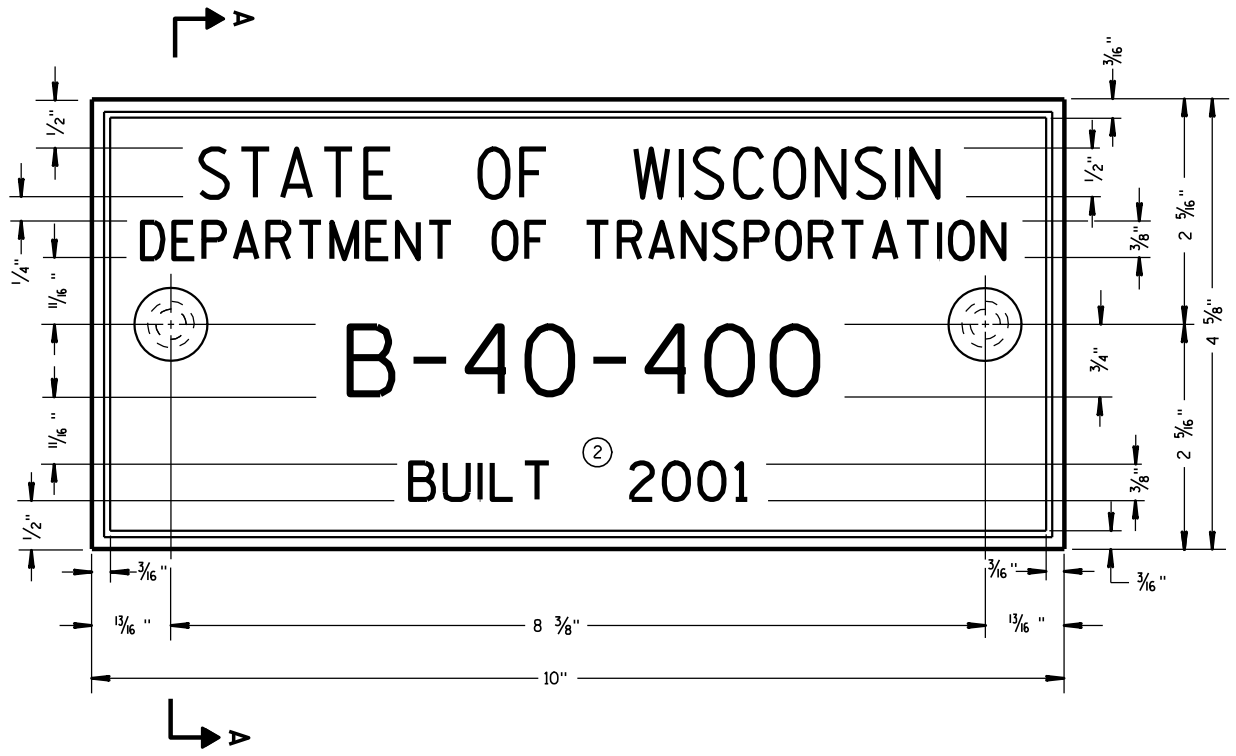
CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

6
S.D.D. 11 B 2-2



TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)

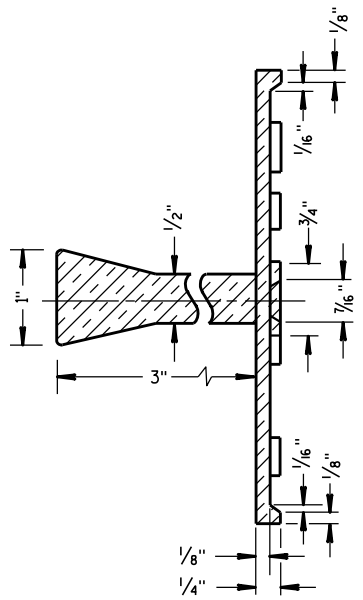
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

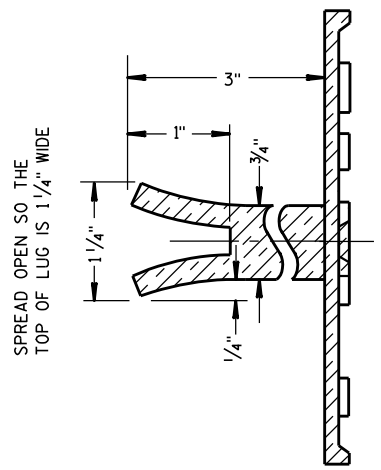
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG

FOR MULTI-UNIT STRUCTURES
LINE 3 ABOVE SHALL READ

B = BRIDGE
C = CULVERT
R = RETAINING WALL

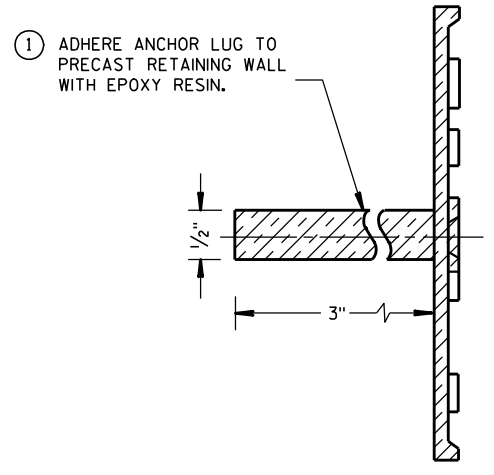
COUNTY NO.

BRIDGE NO.

UNIT NO. FOR MULTIPLE UNIT BRIDGE

B-40-400-1A

NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES



ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/26/10 DATE

/S/ Scot Beck -- CHIEF STRUCTURAL DEVELOP 358 ENGINEER

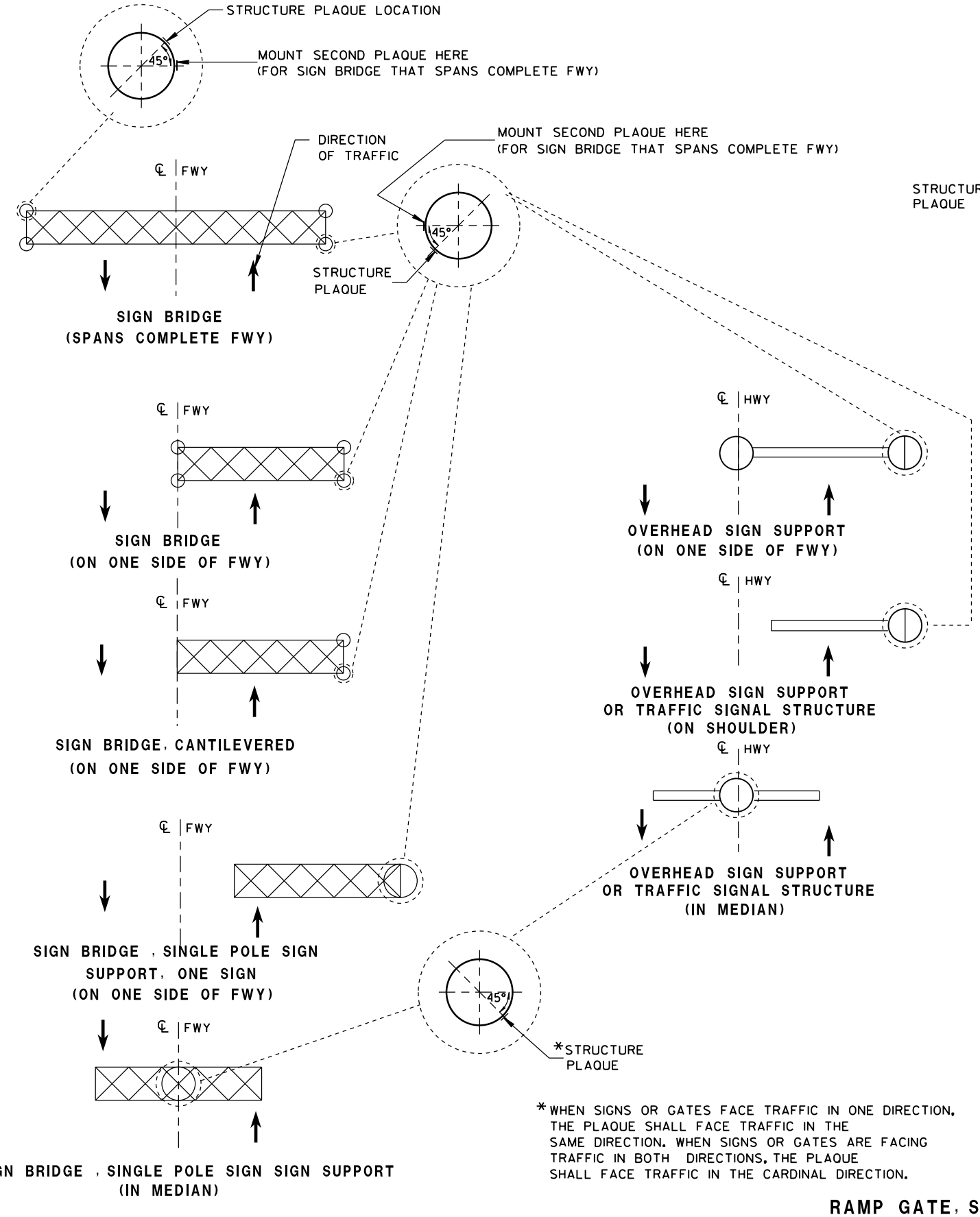
FHWA

6

S.D.D. 12 A 3-10

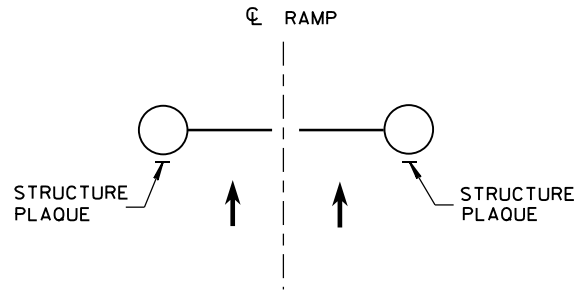
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S.D.D. 12 A 3-10

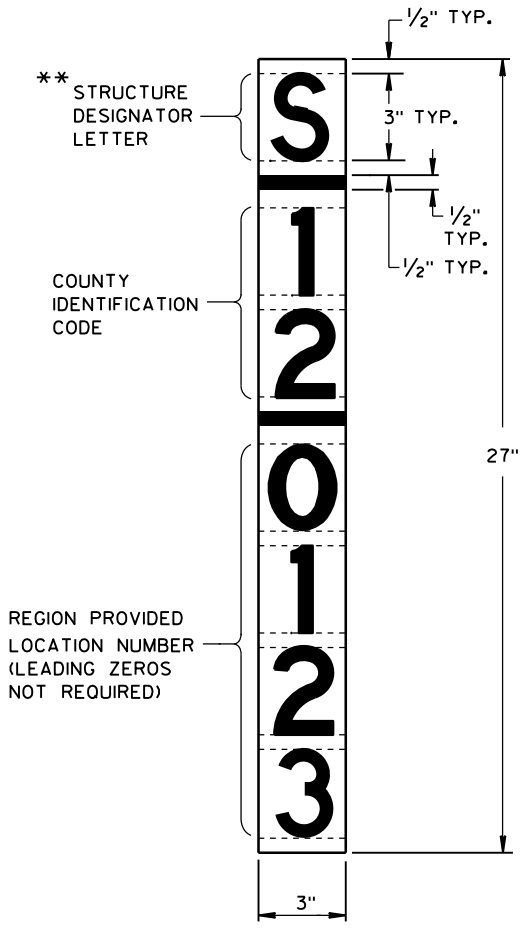


*WHEN SIGNS OR GATES FACE TRAFFIC IN ONE DIRECTION, THE PLAQUE SHALL FACE TRAFFIC IN THE SAME DIRECTION. WHEN SIGNS OR GATES ARE FACING TRAFFIC IN BOTH DIRECTIONS, THE PLAQUE SHALL FACE TRAFFIC IN THE CARDINAL DIRECTION.

LOCATION OF RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT & TRAFFIC SIGNAL STRUCTURE PLAQUES



**RAMP GATE
(ACROSS FWY ON-RAMP)**



RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT AND TRAFFIC SIGNAL STRUCTURE PLAQUE FOR SIGN BRIDGES AND OVERHEAD SIGN SUPPORT WHICH ARE NOT STRUCTURE MOUNTED

** LETTER "G" UTILIZED FOR RAMP GATES. LETTER "S" UTILIZED FOR SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, AND TRAFFIC SIGNALS.

GENERAL NOTES

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

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

IF THE PROPOSED SIGN BRIDGE OR OVERHEAD SIGN SUPPORT IS REPLACING AN EXISTING SIGN BRIDGE OR OVERHEAD SIGN SUPPORT, A NEW IDENTIFICATION PLAQUE WILL BE REQUIRED.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

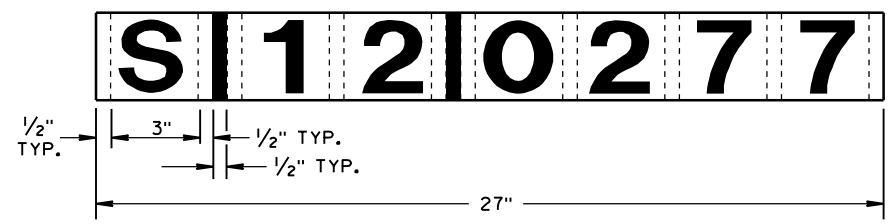
FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, ½" WIDE, SELF-ADHESIVE

CHARACTERS:- BLACK, SELF ADHESIVE, SERIES "D", SIZE AS SHOWN.

FOR SIGN BRIDGES, STRUCTURE MOUNTED, THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE DRAWING. THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY TO THE BACK OF THE SIGN, BETWEEN THE ALUMINUM EXTRUSIONS, NEAR THE TOP LEFT HAND CORNER OF THE SIGN. THE BASE MATERIAL SHALL BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE ALUMINUM SURFACE. PRIOR TO ADHERING THE MATERIAL, THE ALUMINUM SURFACE SHALL BE SMOOTH, CLEAN AND DRY.

WHERE SIGN BRIDGE ILLUMINATION IS PROVIDED, THE STRUCTURE MUST ALSO HAVE A SIGN BRIDGE CIRCUIT PLAQUE AS SHOWN IN THE ELECTRICAL DETAILS.



IDENTIFICATION PLAQUE FOR SIGN BRIDGE, STRUCTURE MOUNTED

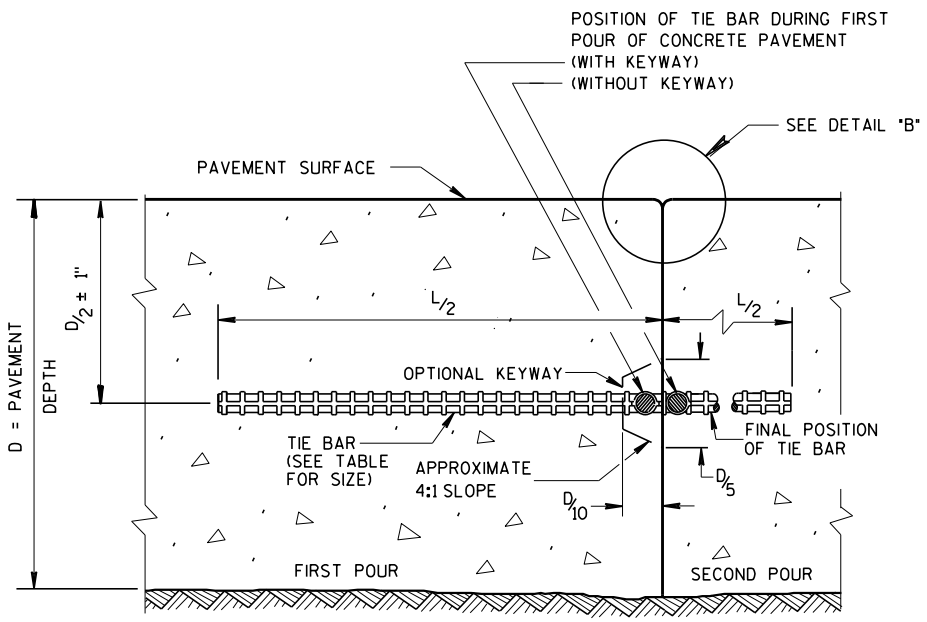
STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, & TRAFFIC SIGNALS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

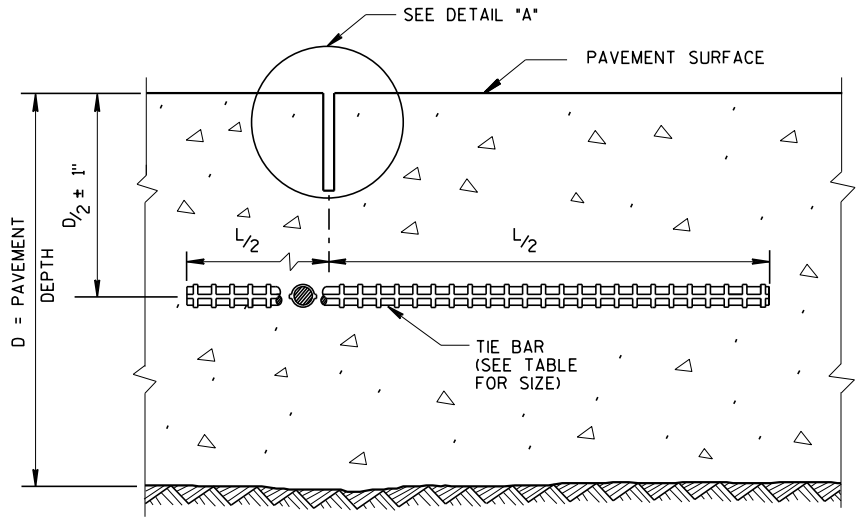
APPROVED
12/4/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 12 A 4-3



CONSTRUCTION JOINT



SAWED JOINT

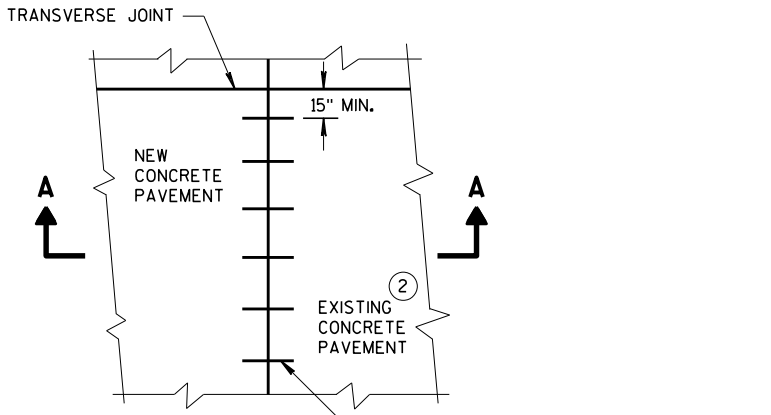
GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

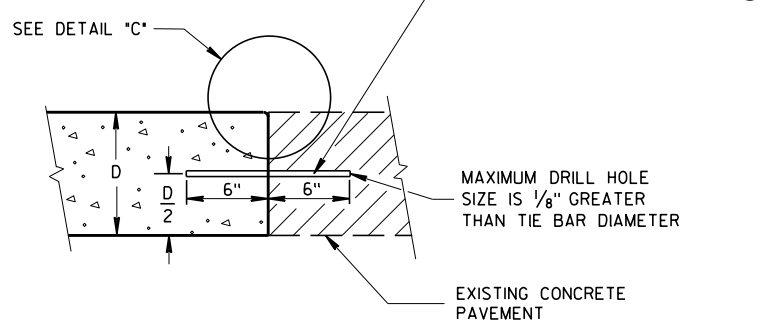
CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

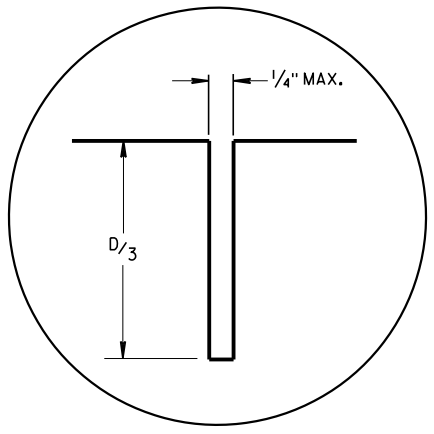


PLAN VIEW

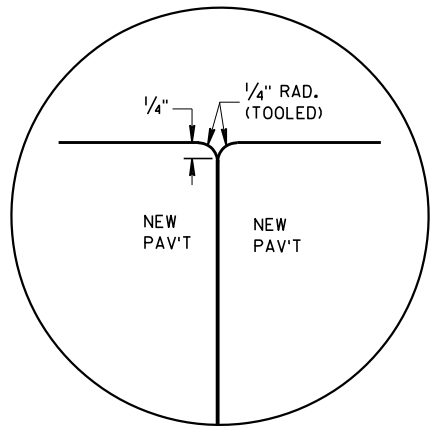


SECTION A-A

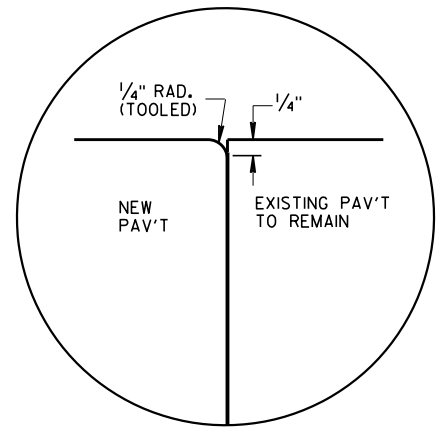
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"



DETAIL "B"



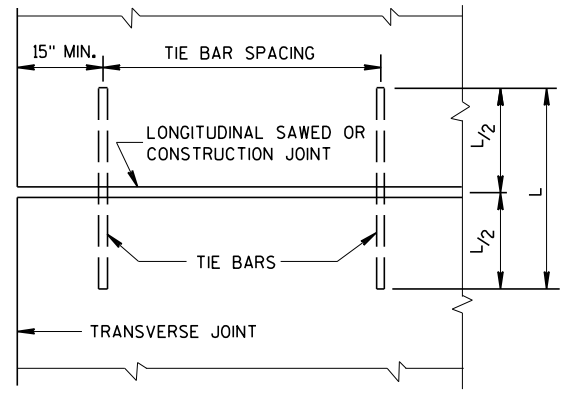
DETAIL "C"

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

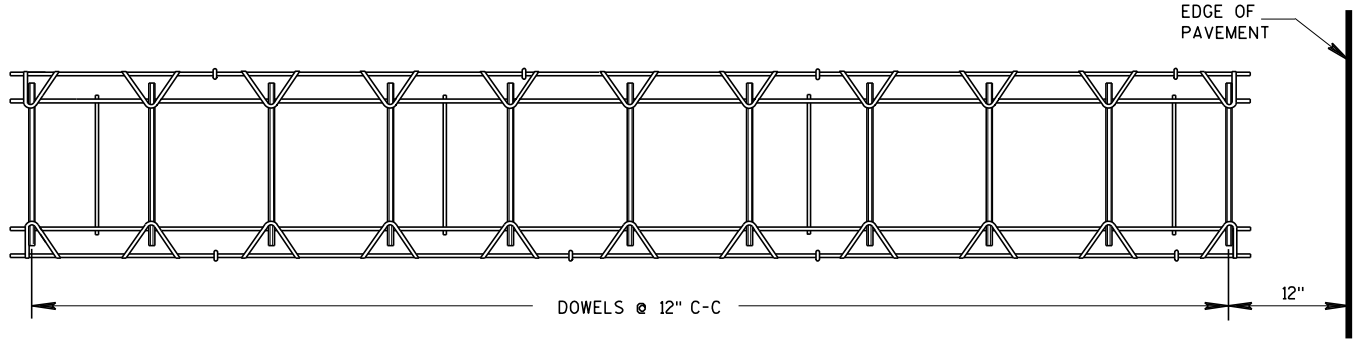
APPROVED
March 2018
DATE
/S/ Peter Kemp, PE
PAVEMENT SUPE
FHWA

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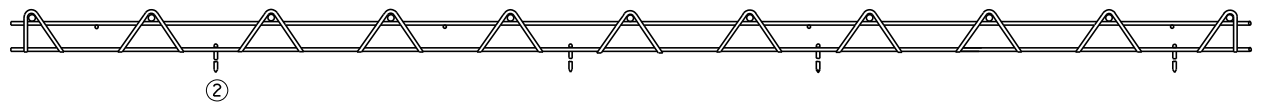
S.D.D. 13 C 1-19

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S.D.D. 13 C 1-19

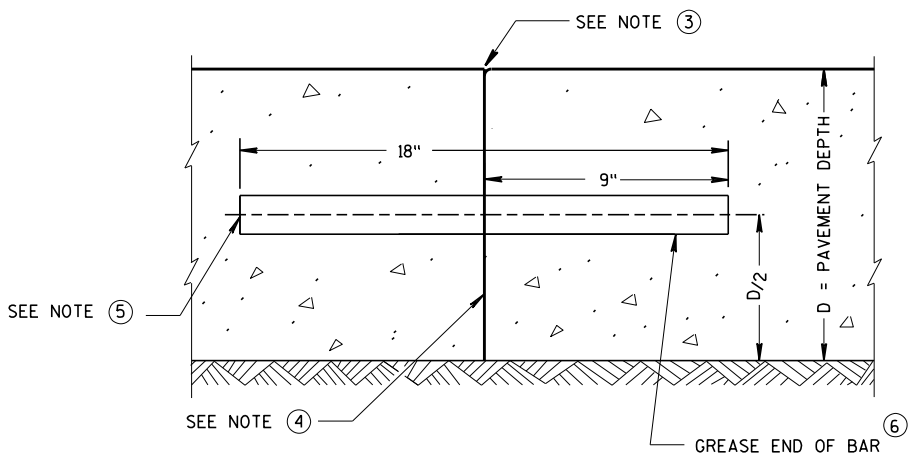


PLAN VIEW

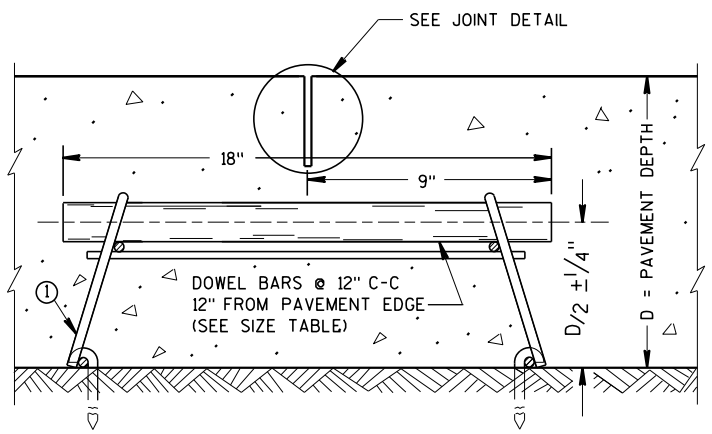


SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①



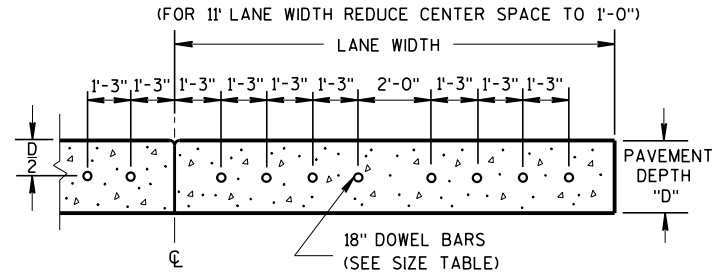
TRANSVERSE CONSTRUCTION JOINT



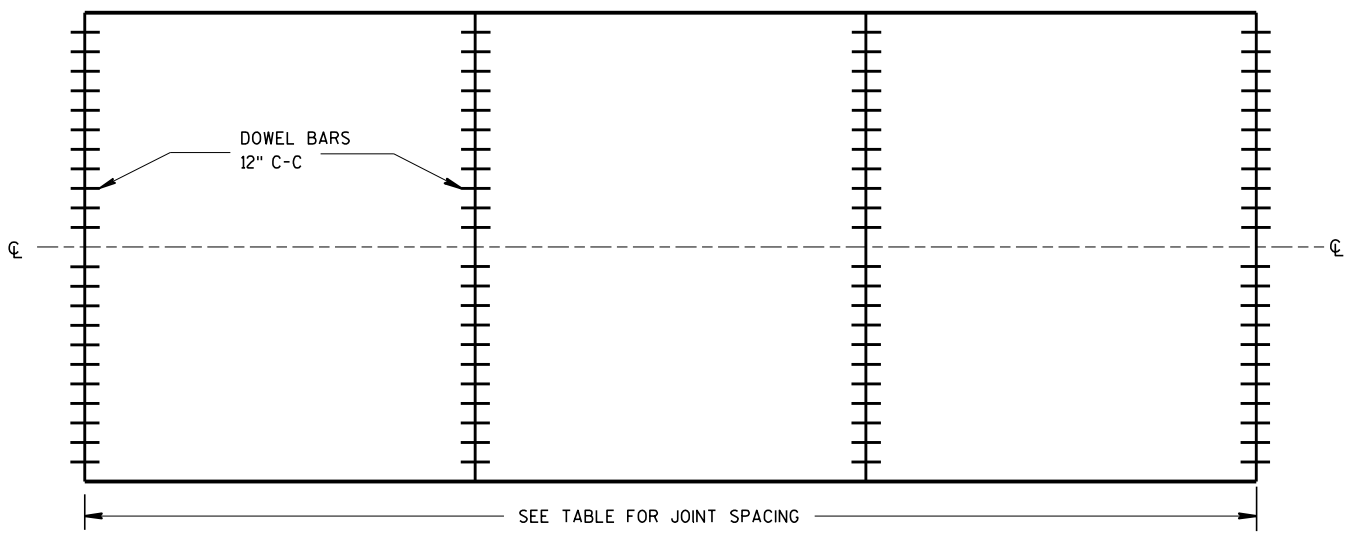
DOWELED CONTRACTION JOINT

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.

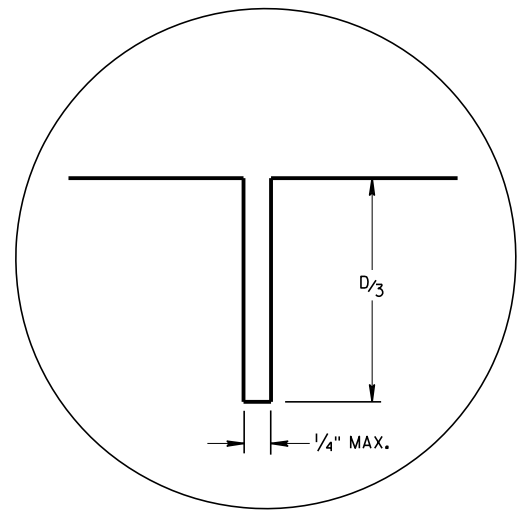
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

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 361

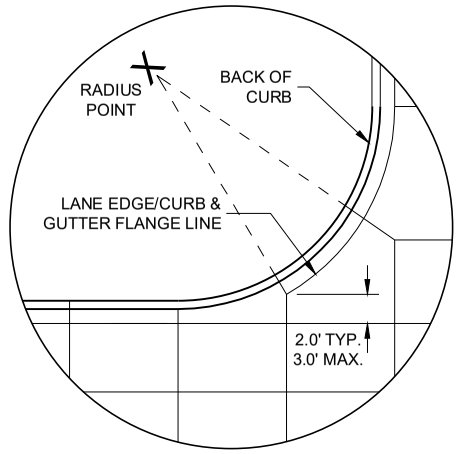
FHWA

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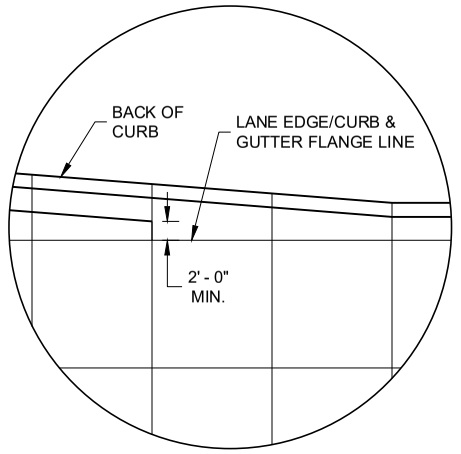
S.D.D. 13 C 13-9

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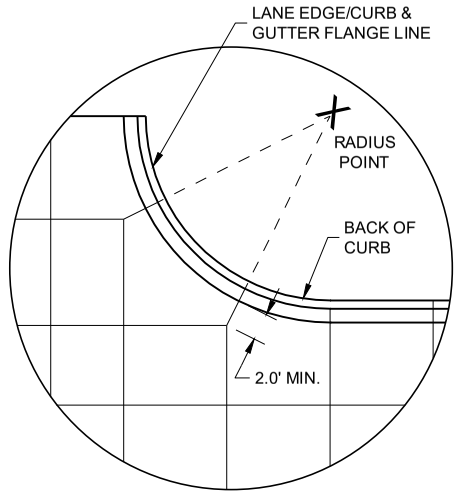
S.D.D. 13 C 13-9



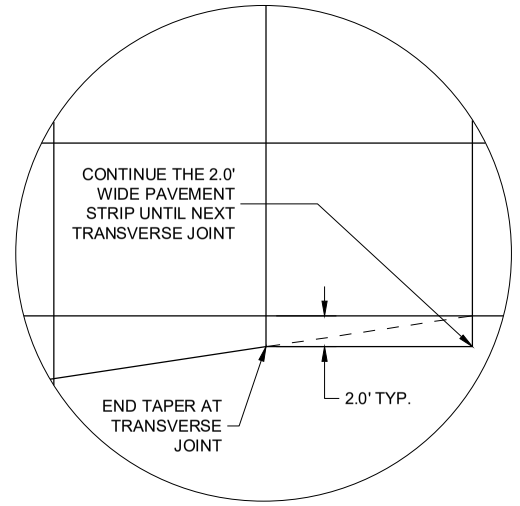
DETAIL "A"



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.

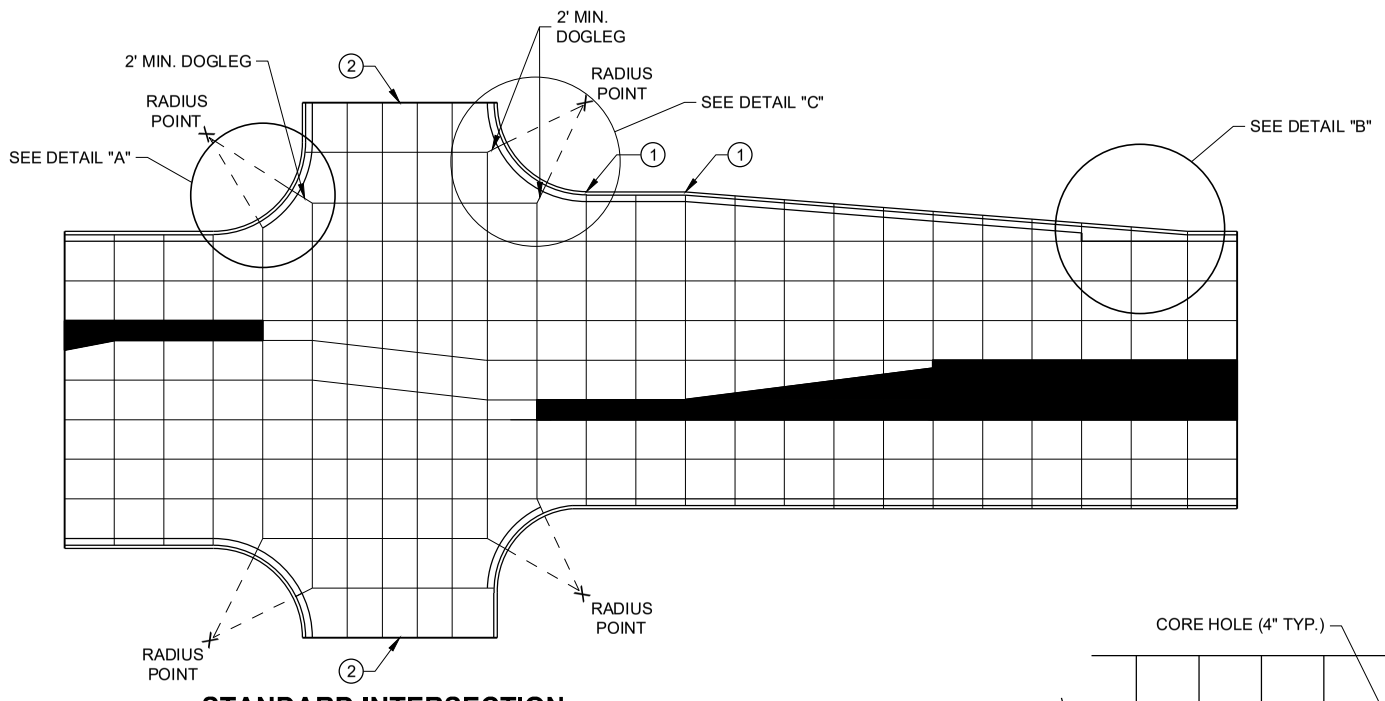
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

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.

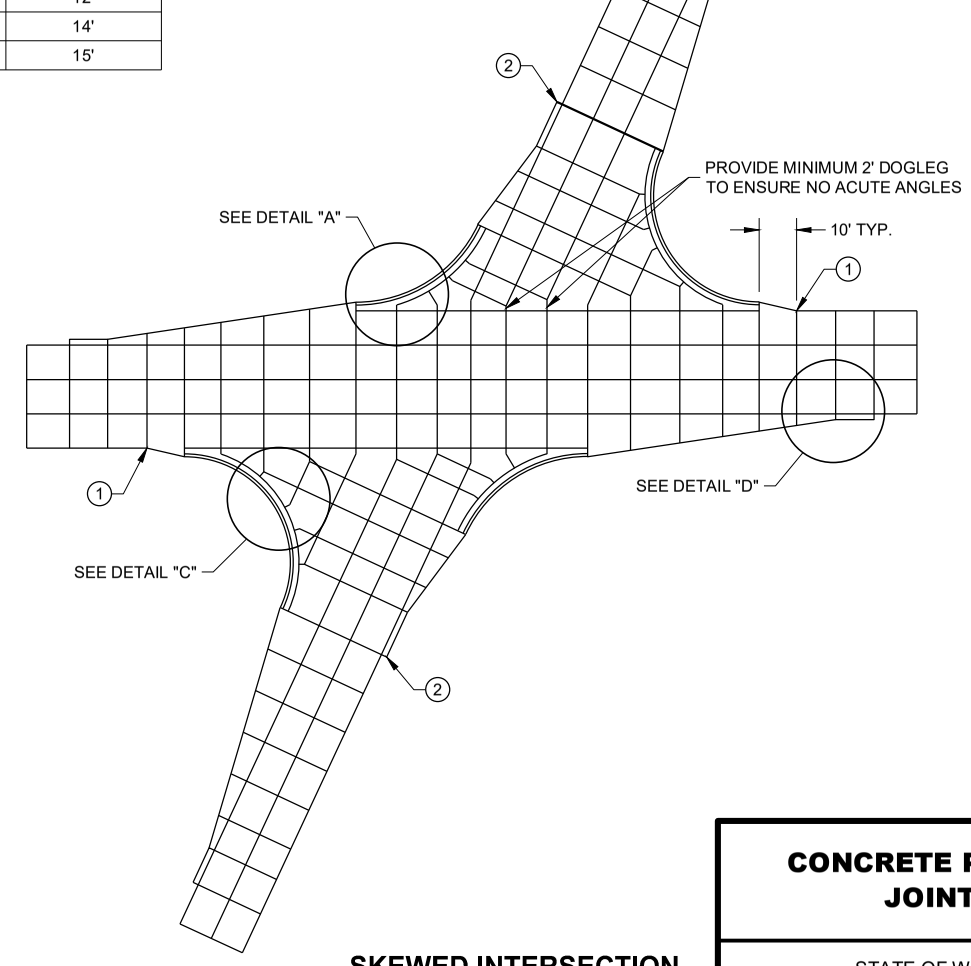
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITHEDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



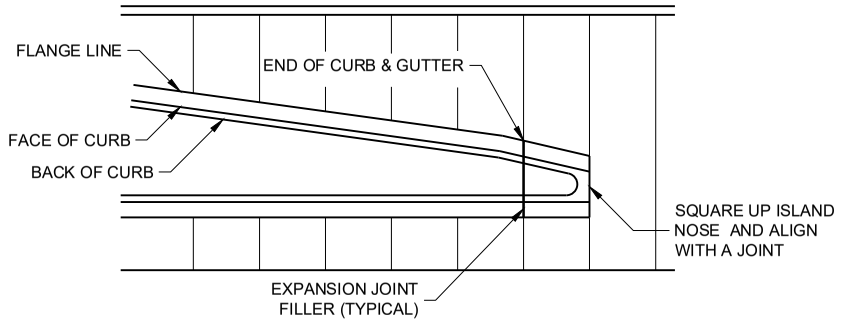
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

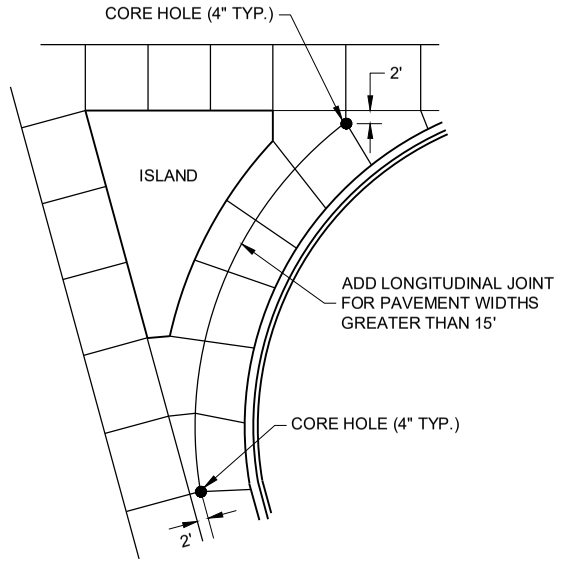
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



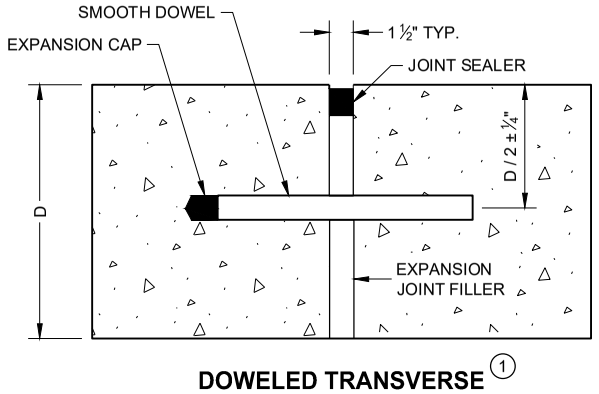
LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

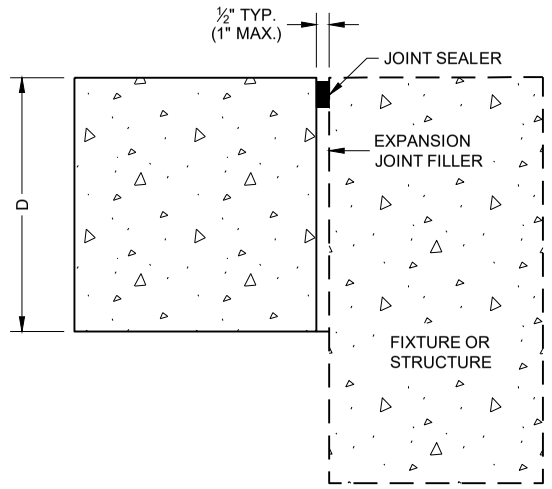
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA- 362

SDD 13C18 - 07a

SDD 13C18 - 07a



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

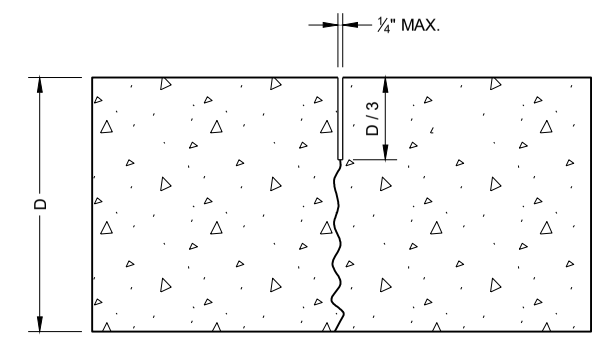
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

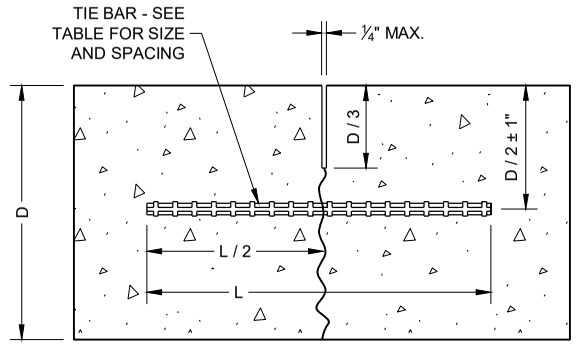
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

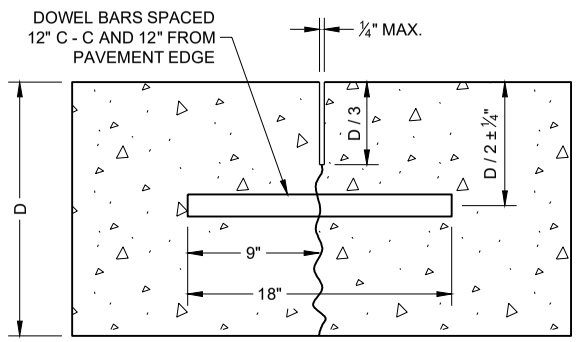
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM 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 ¼" RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



UNDOWELED TRANSVERSE

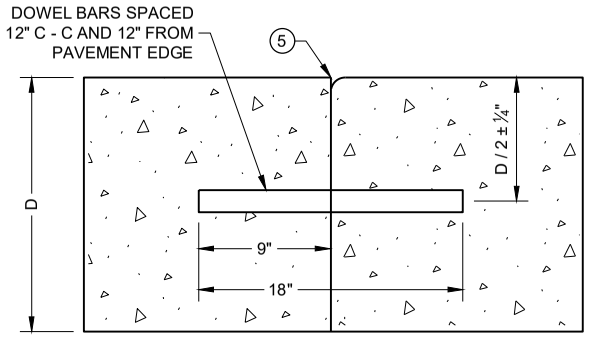


TIED LONGITUDINAL

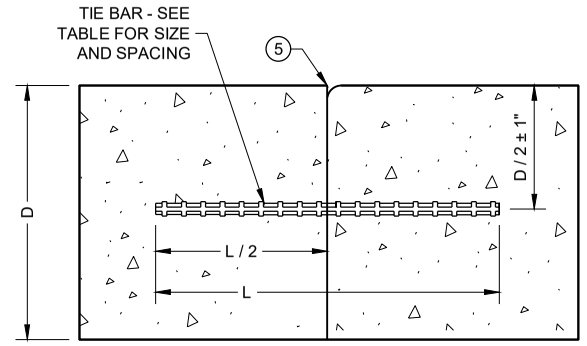


DOWELED TRANSVERSE

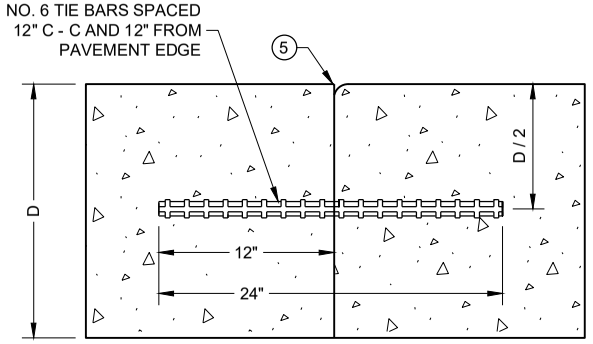
CONTRACTION JOINTS (2)



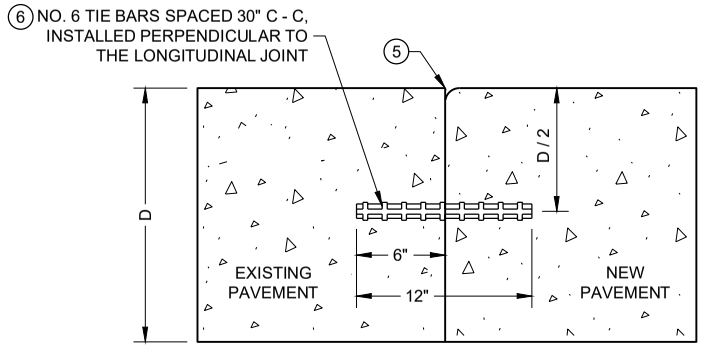
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

CONSTRUCTION JOINTS (4)

CONCRETE PAVEMENT JOINT TYPES

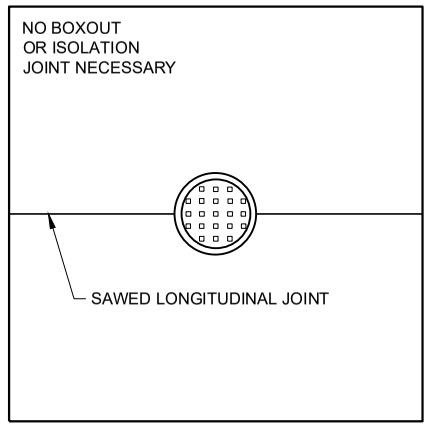
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTA- 363

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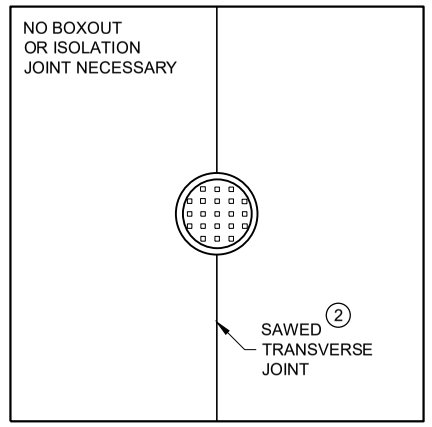
SDD 13C18 - 07c

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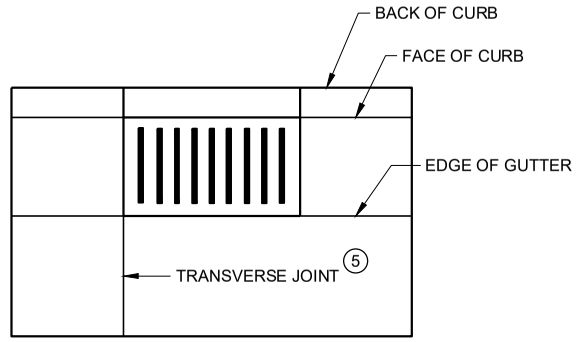
SDD 13C18 - 07c



MANHOLE WITH LONGITUDINAL JOINT



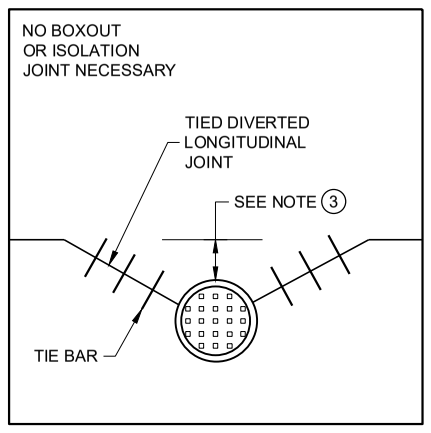
MANHOLE WITH TRANSVERSE JOINT



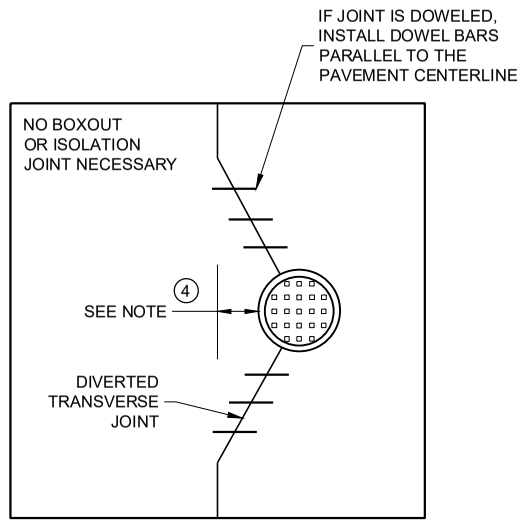
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

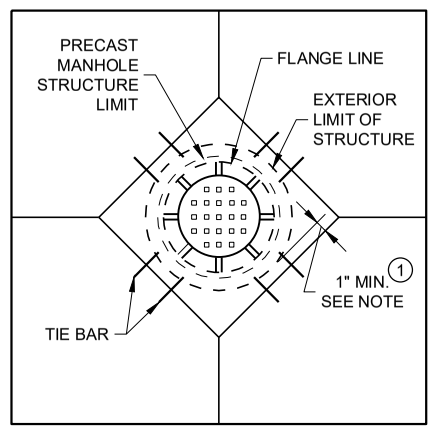
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL 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 REINFORCEMENT REBAR AROUND THE MANHOLE.
4. IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 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 REINFORCEMENT REBAR AROUND THE MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

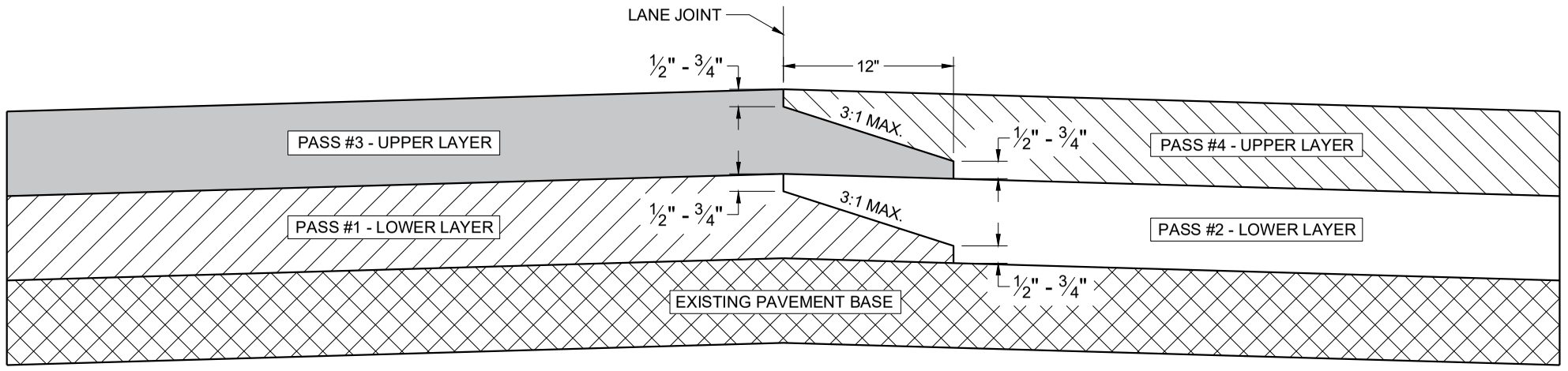
APPROVED
November 2018 — DATE
/S/ Peter Kemp P.E. — PAVEMENT SUPERVIS
FHWA

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SDD 13C18 - 07d

GENERAL NOTES

CONFORM TO STANDARD SPECIFICATION 450.3.2.8



TYPICAL PAVEMENT CROSS SECTION
OF NOTCHED WEDGE LONGITUDINAL JOINTS

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SDD 13C19 - 01

SDD 13C19 - 01

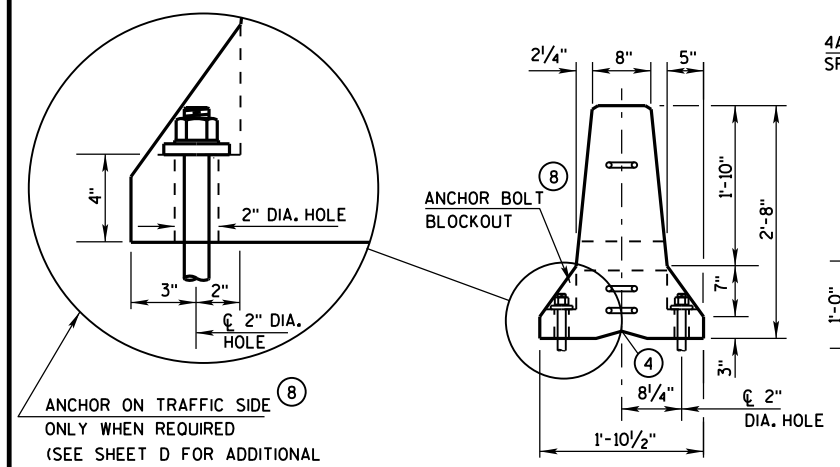
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

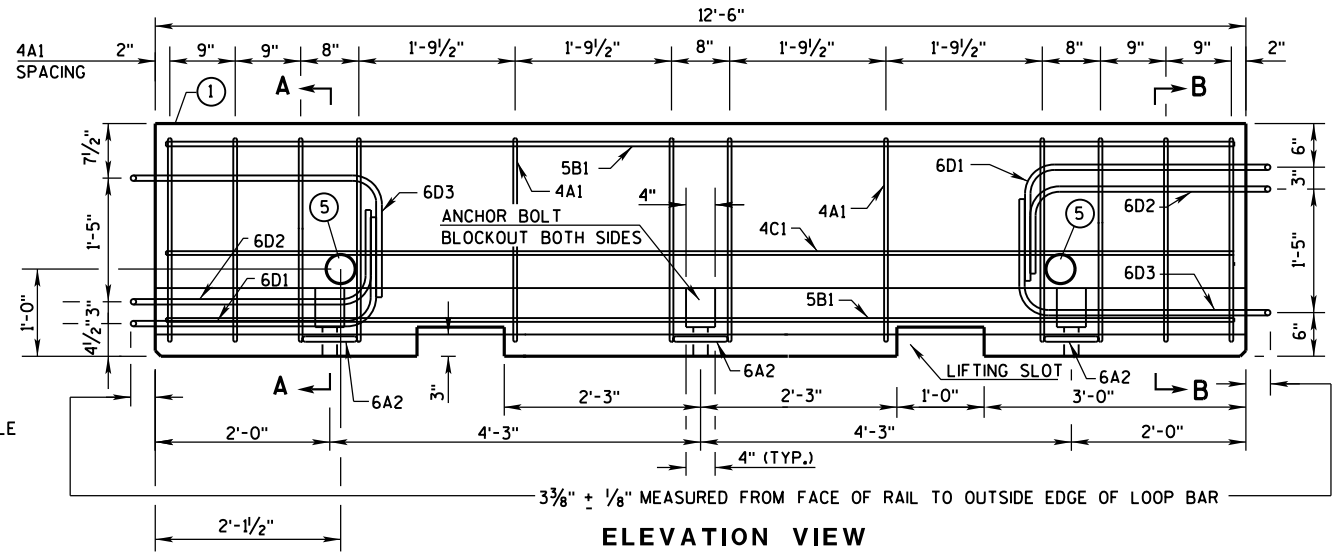
APPROVED
May 2019
DATE

/S/ Steven Hefel
HMA PAVEMENT ENGIN

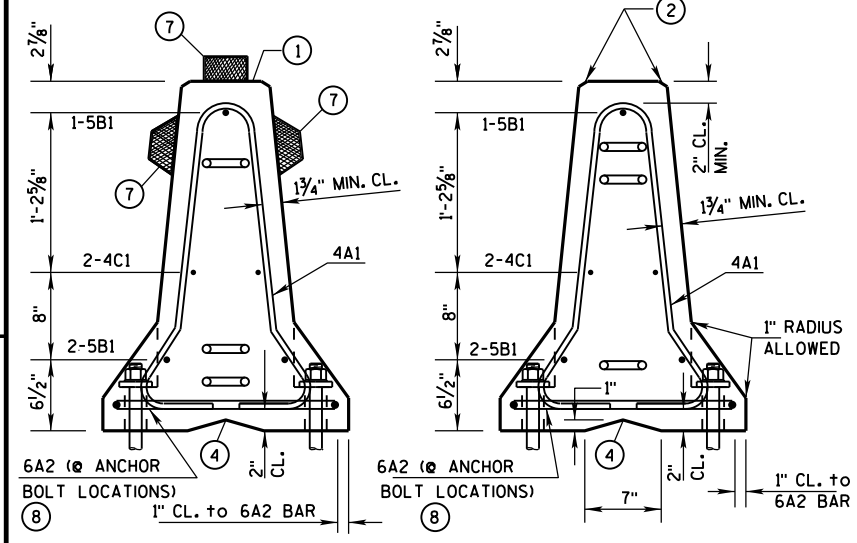
FHWA



END VIEW

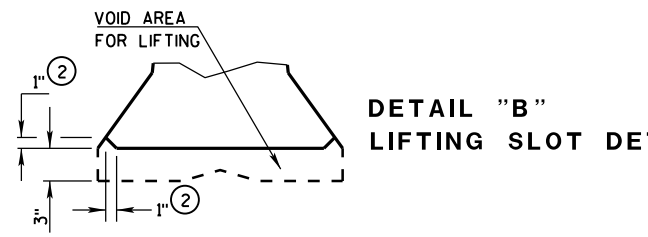


ELEVATION VIEW

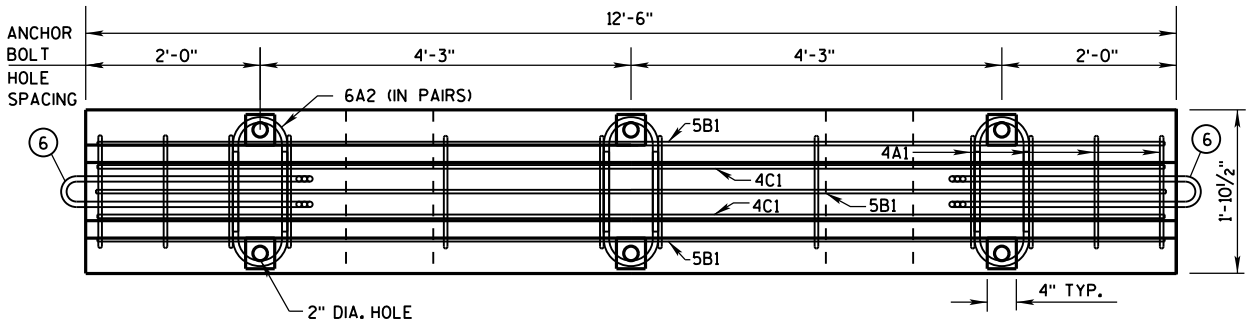


SECTION A-A
(STIRRUP PLACEMENT)

SECTION B-B
(STIRRUP PLACEMENT)

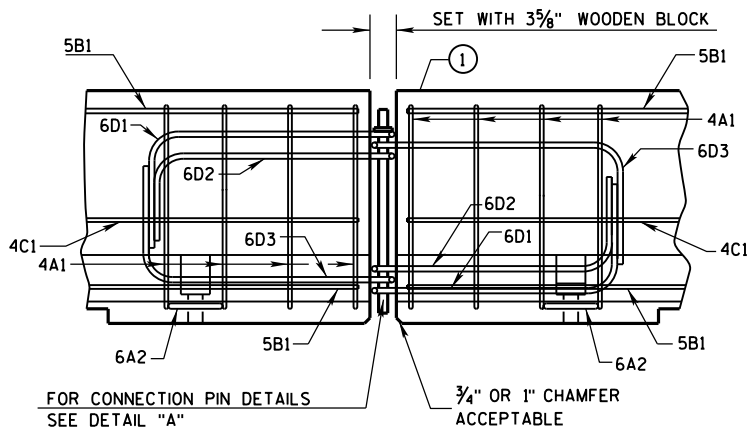


DETAIL "B"
LIFTING SLOT DETAIL

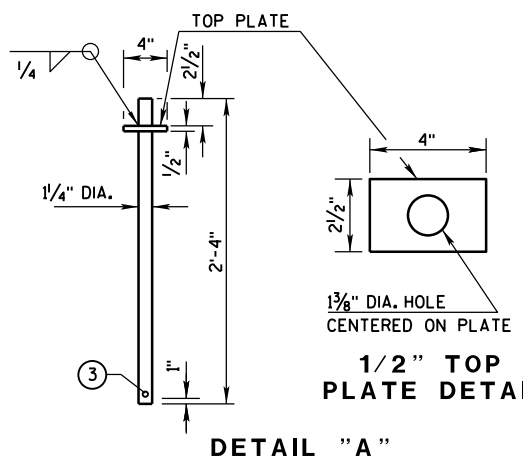


PLAN VIEW

DETAILS OF BARRIER SECTION

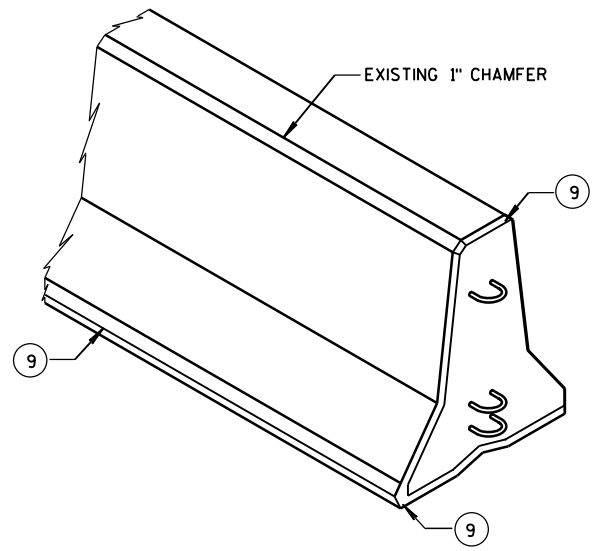


DETAILS OF BARRIER CONNECTION



1/2" TOP PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-15(a) THRU 14B7-15(i).

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRCAST, 12'-6" (CBTP12.5) WITH OTHER TEMPORARY CONCRETE BARRIERS.

USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER TAPER SECTION.

LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE ¾" SMOOTH STEEL BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI, A TENSILE STRENGTH OF NOT LESS THAN 1.25 TIMES THE YIELD STRENGTH BUT A MINIMUM OF 80 KSI, A MINIMUM 14% ELONGATION IN 8 INCHES AND PASSING A 180 DEGREE BEND TEST USING A 3-½" PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN ⅛" OF THE PLAN DIMENSION.

CONSTRUCT LIFTING SLOTS AS SPECIFIED ON THE PLANS TO FACILITATE THE DRAINAGE OF WATER AFTER INSTALLATION.

PLACE BARRIER ON A PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.

INSTALL MECHANICAL OR ADHESIVE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.

(1) MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
- a. TYPE: WI CBTP
- b. MANUFACTURER
- c. DATE MANUFACTURED (MONTH AND YEAR)

(2) 1" CHAMFER TO PREVENT SPALLING.

(3) A ⅜" HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT NOT REQUIRED..

(4) "V" NOTCH IS OPTIONAL.

(5) THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).

(6) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

(7) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURES INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED TO THE RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART. PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAN 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

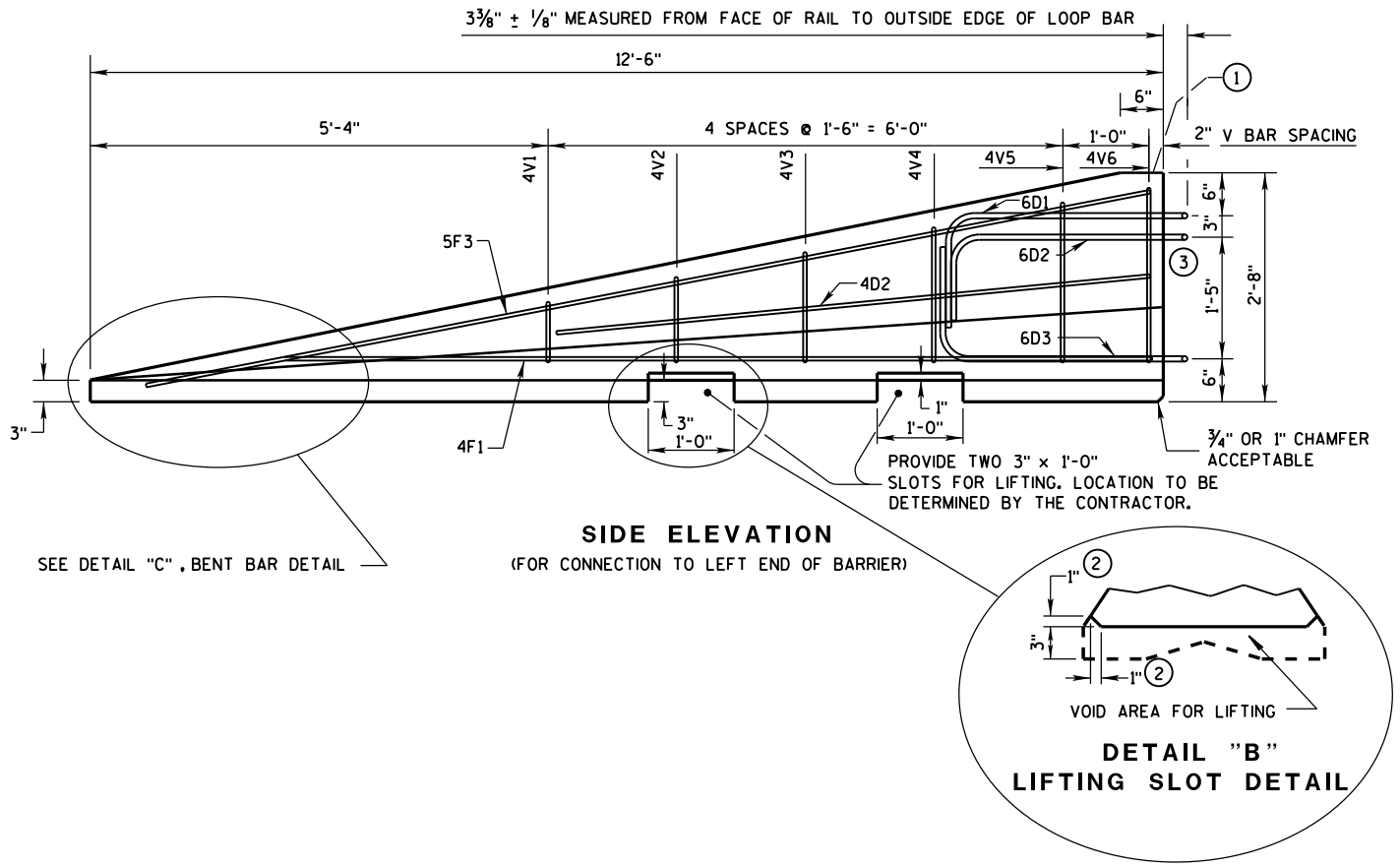
(8) SEE SHEET D FOR HOW TO ANCHOR BARRIER. SEE SHEET E FOR WHEN TO ANCHOR BARRIER.

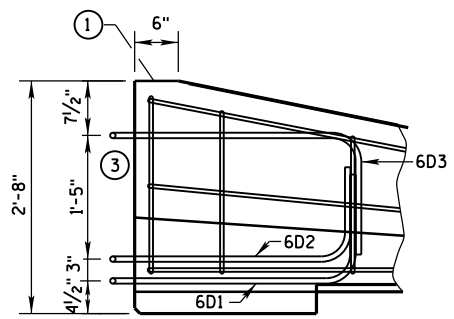
(9) 1" CHAMFER OPTIONAL.

f'c = 4,000 psi

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

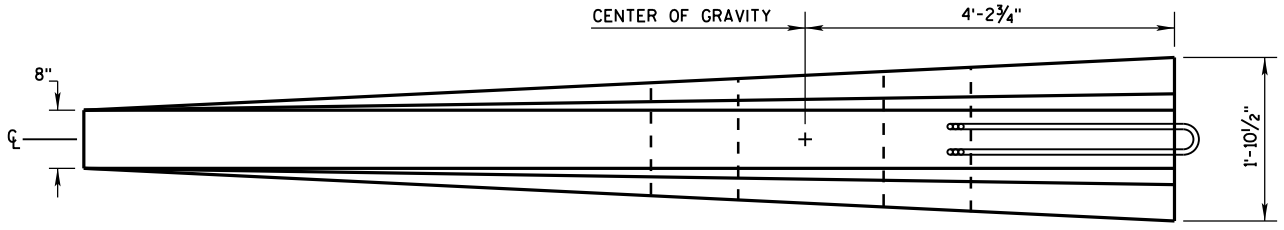
STATE OF WISCONSIN
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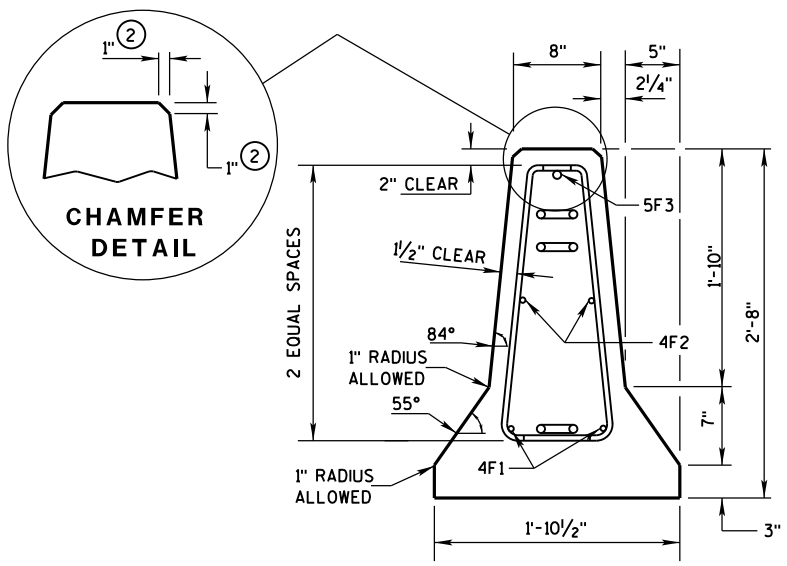


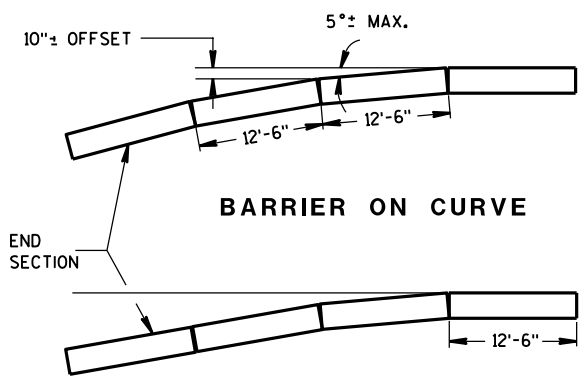


GENERAL NOTES

1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.







POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1

DETAILS OF BARRIER TAPER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

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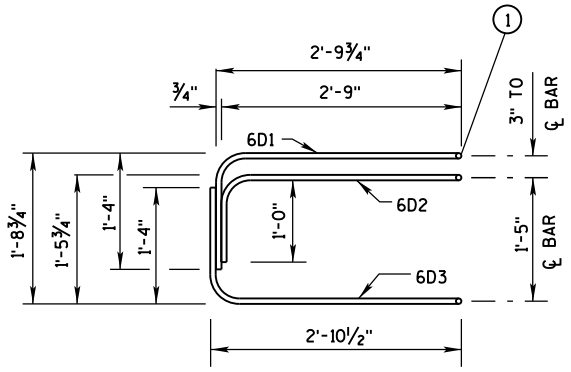
6

S.D.D. 14 B 7-15b

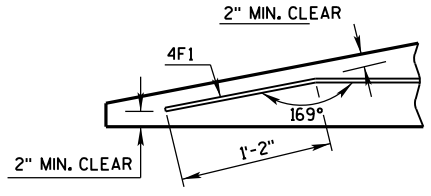
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

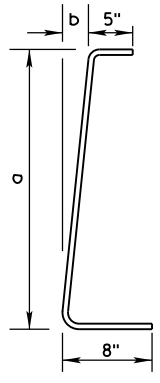
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



ELEVATION
LOOP BAR ASSEMBLY



DETAIL "C"
BENT BAR DETAIL



BAR	a	b
V1	10"	1"
V2	1'-1"	1¼"
V3	1'-5"	1⅝"
V4	1'-8"	1⅞"
V5	2'-0½"	2⅜"
V6	2'-3"	2¾"

4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

TAPER BARRIER SECTION

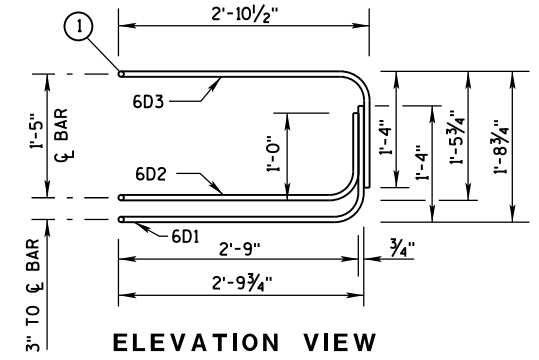
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

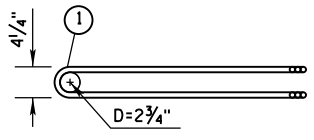
BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

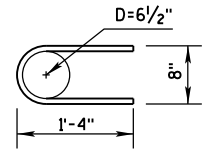
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"



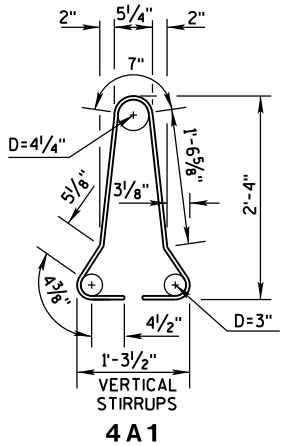
ELEVATION VIEW



PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)



6A2



4A1

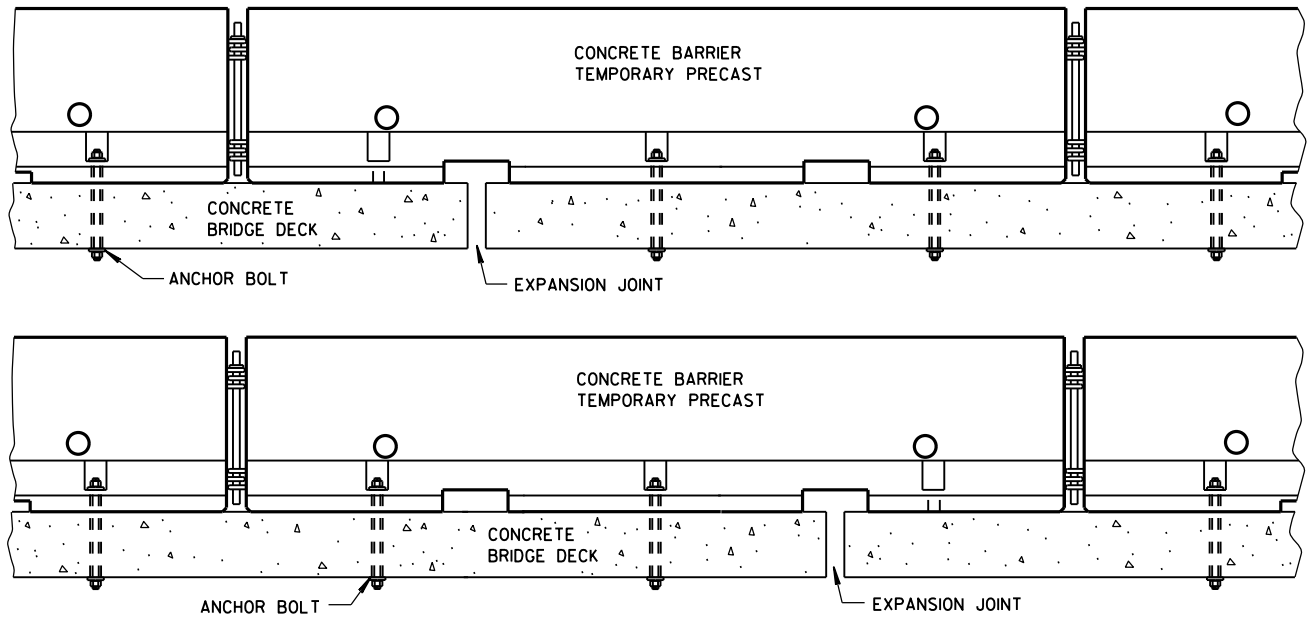
BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

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TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.)

GENERAL NOTES

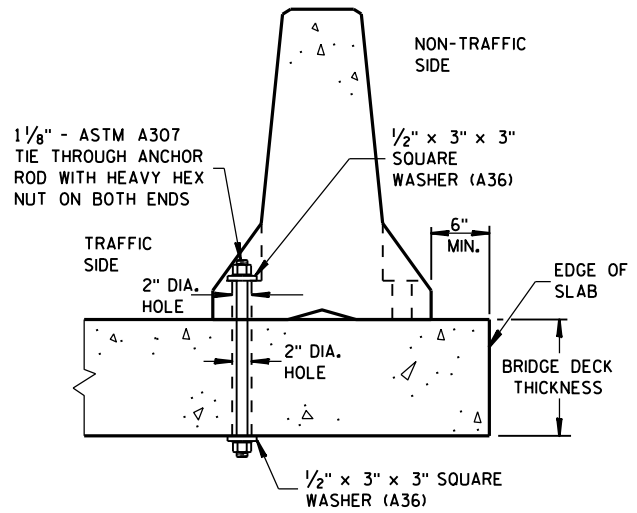
SEE SHEET E FOR WHEN TO ANCHOR. OTHER PARTS OF THE PLAN MAY SHOW ADDITIONAL LOCATIONS REQUIRING ANCHORING.

REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERICAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

(1) 1⅛" DIAMENTER A307 THREADED ROD. ½" X 3" X 3" SQUARE PLATE WASHER WITH ASTM A36 STEEL. ASTM A563A HEAVY HEX NUT.

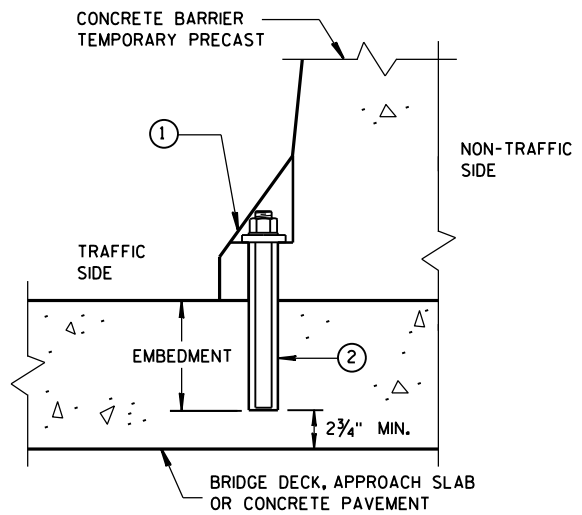
(2) ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 5¼" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.

(3) ASPHALT SURFACE SHOWN. CONTRACTOR MAY DRILL THROUGH CONCRETE PAVEMENT AND THAN DRIVE ASPHALT ANCHOR PIN.



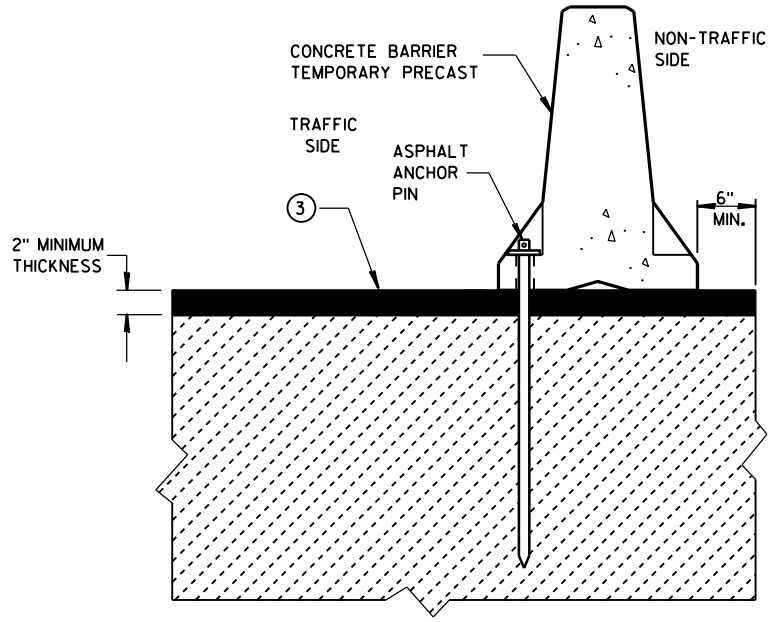
THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

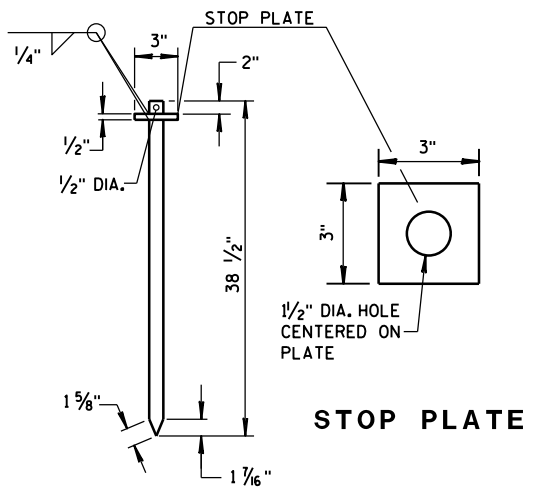


REMOVABLE ADHESIVE ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)



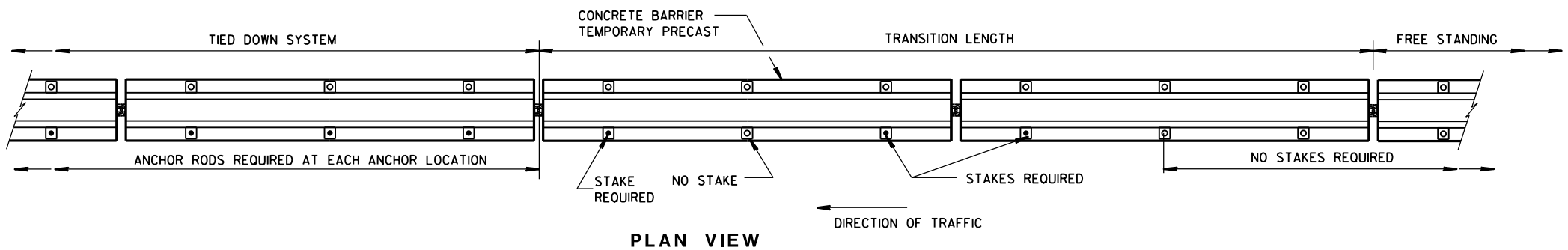
STAKE DOWN INSTALLATION FOR ASPHALTIC SURFACE



STOP PLATE

ASPHALT ANCHOR PIN

(ASTM A36 STEEL)



PLAN VIEW

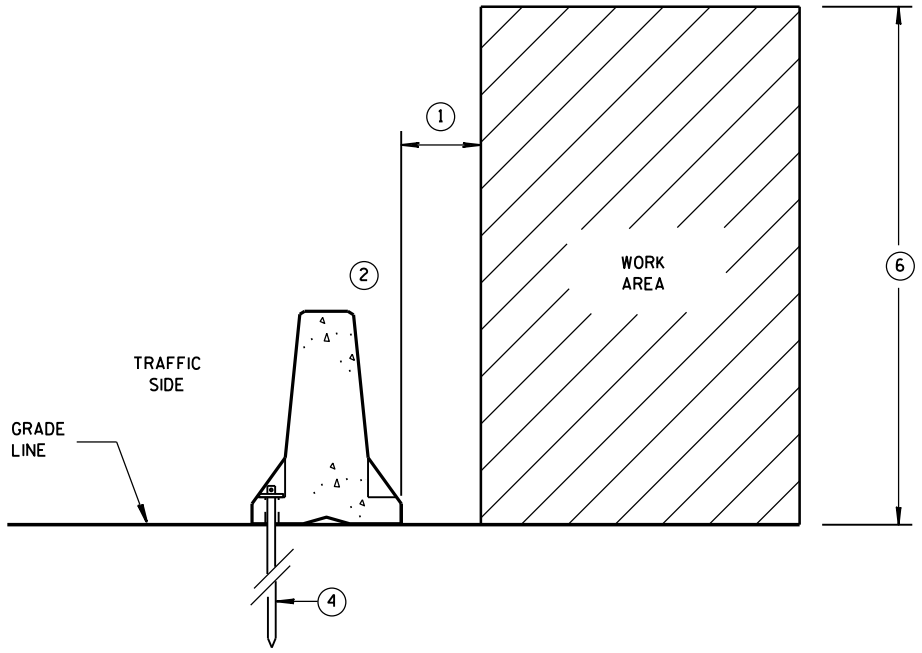
FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

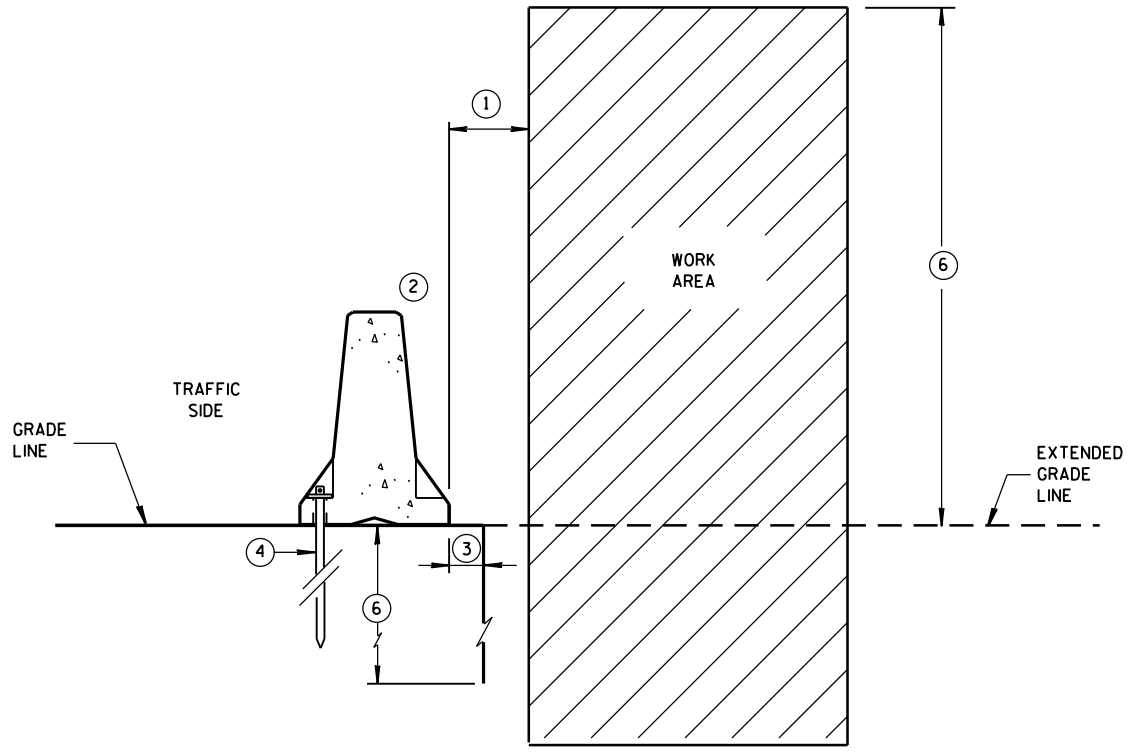
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

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ANCHORED BARRIER SPACE REQUIREMENTS FOR HAZARDS EXTENDED ABOVE THE GRADE LINE

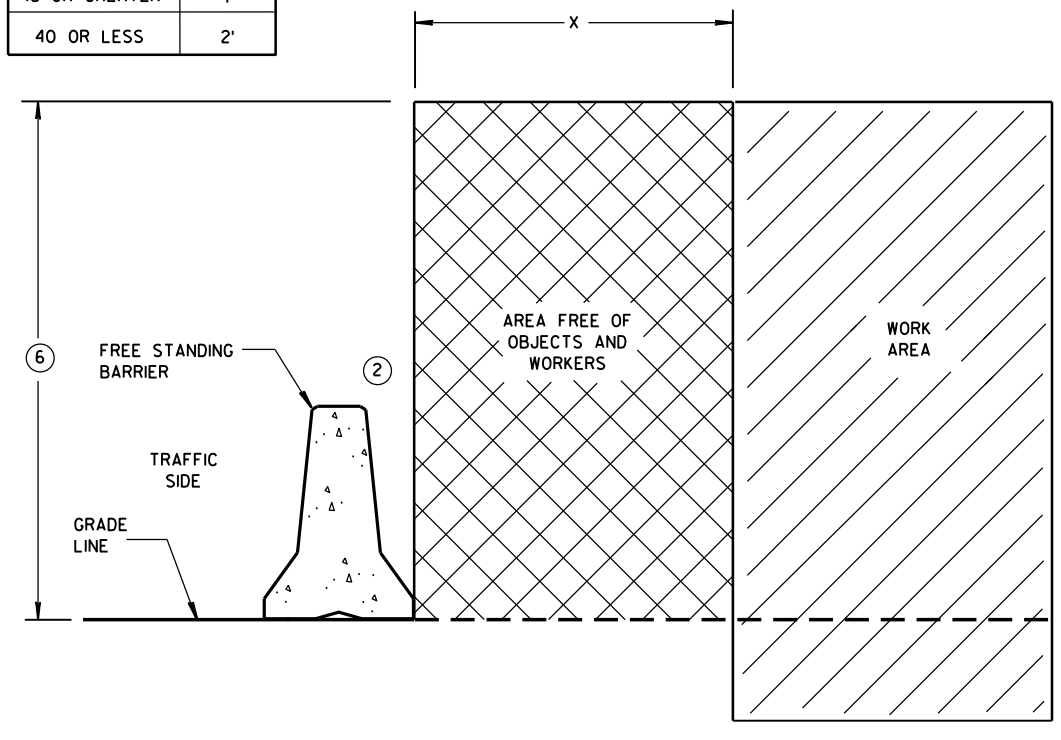


ANCHORED BARRIER SPACE REQUIREMENTS ON VERTICAL DROP OFFS

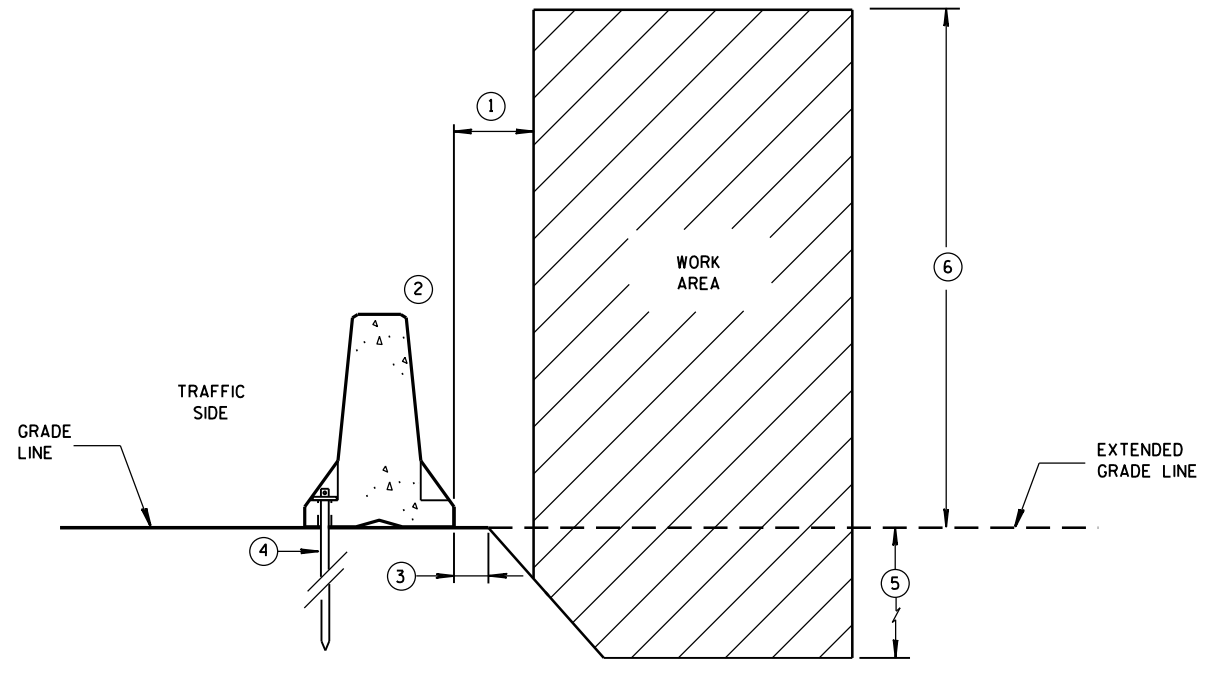
GENERAL NOTES

1. WHEN OBJECTS EXTEND ABOVE THE GRADE, A MINIMUM OF 1 FOOT IS REQUIRED FROM BACK OF BARRIER TO OBJECT. SEE OTHER DETAILS FOR FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR VERTICAL DROPS.
2. OBJECTS ARE NOT TO BE PLACED ON, MOUNTED TO, OR LEANED AGAINST THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.
3. SEE OTHER DETAIL ON SHEET "D" FOR SPACE REQUIREMENTS.
4. SEE BOLT THROUGH DECK, REMOVABLE ADHESIVE ANCHOR, OR A STAKE DOWN FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.
5. DEPTH OF 3 FEET OR MORE.
6. Y = 6'-6".

POSTED SPEED MPH	X
45 OR GREATER	4'
40 OR LESS	2'



FREE STANDING BARRIER SPACE REQUIREMENTS



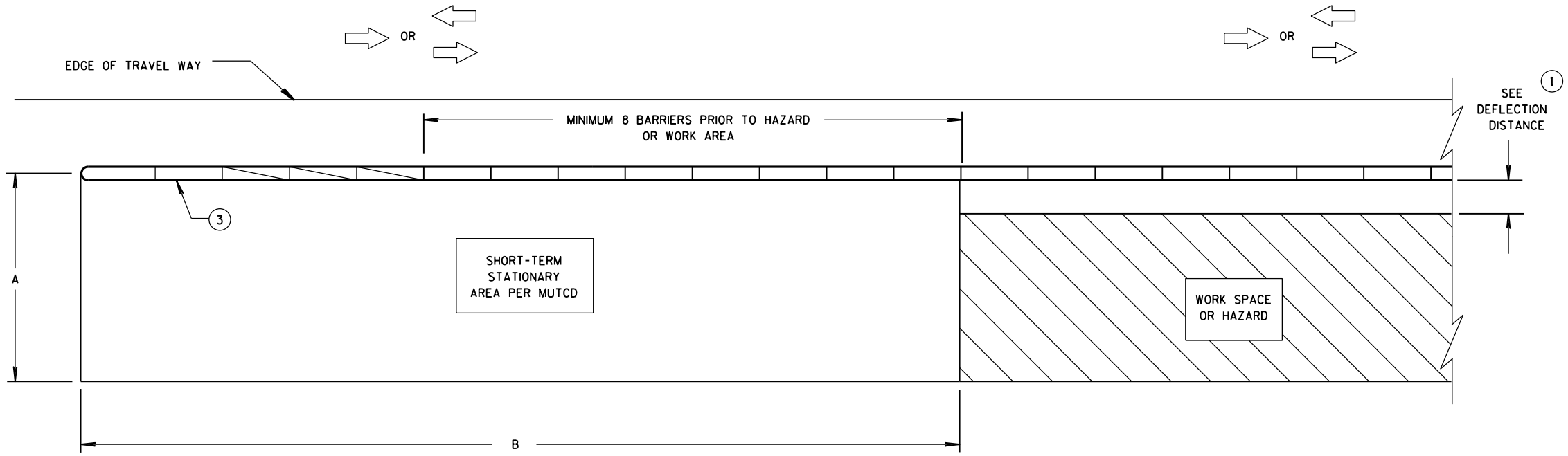
ANCHORED BARRIER SPACE REQUIREMENTS ON SLOPES

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
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S.D.D. 14 B 7-15e



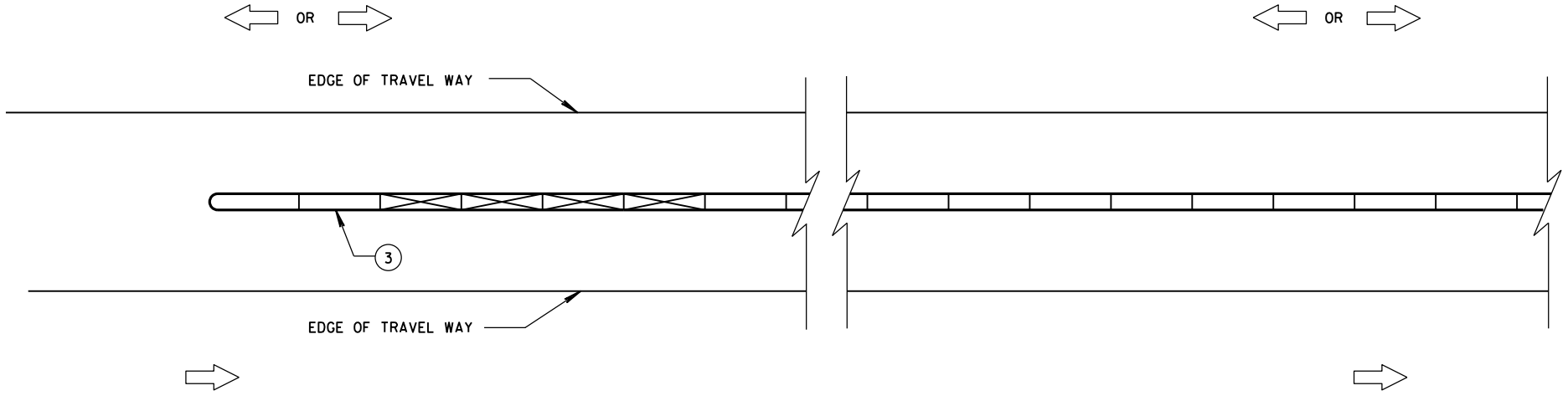
CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER

DIMENSION A TABLE (2)

FACILITY	POSTED SPEED MPH	DIMENSION A	
		MIN. FT	MAX. FT
FREEWAY/EXPRESSWAY	ALL	15	20
NON-FREEWAY/EXPRESSWAY	GREATER THAN OR EQUAL TO 45	10	15
NON-FREEWAY/EXPRESSWAY	LESS THAN 45	8	10
AADT LESS THAN 1,500	ALL	8	10

DIMENSION B TABLE (2)

POSTED SPEEDS MPH	DIMENSION B FT
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET

FREE STANDING TEMPORARY BARRIER

GENERAL NOTES

SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

DETAILS PROVIDE A GENERAL LAYOUT OF TEMPORARY CONCRETE BARRIER, CRASH CUSHIONS, SAND BARREL ARRAYS AND TIE DOWN TRANSITIONS. DETAILS PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

ADDITIONAL TEMPORARY BARRIER MAY BE REQUIRED TO PROTECT TRAVELING PUBLIC FROM HAZARDS, CONTRACTOR'S OPERATIONS OR TO CONTROL TRAFFIC.

TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

(1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.

(2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

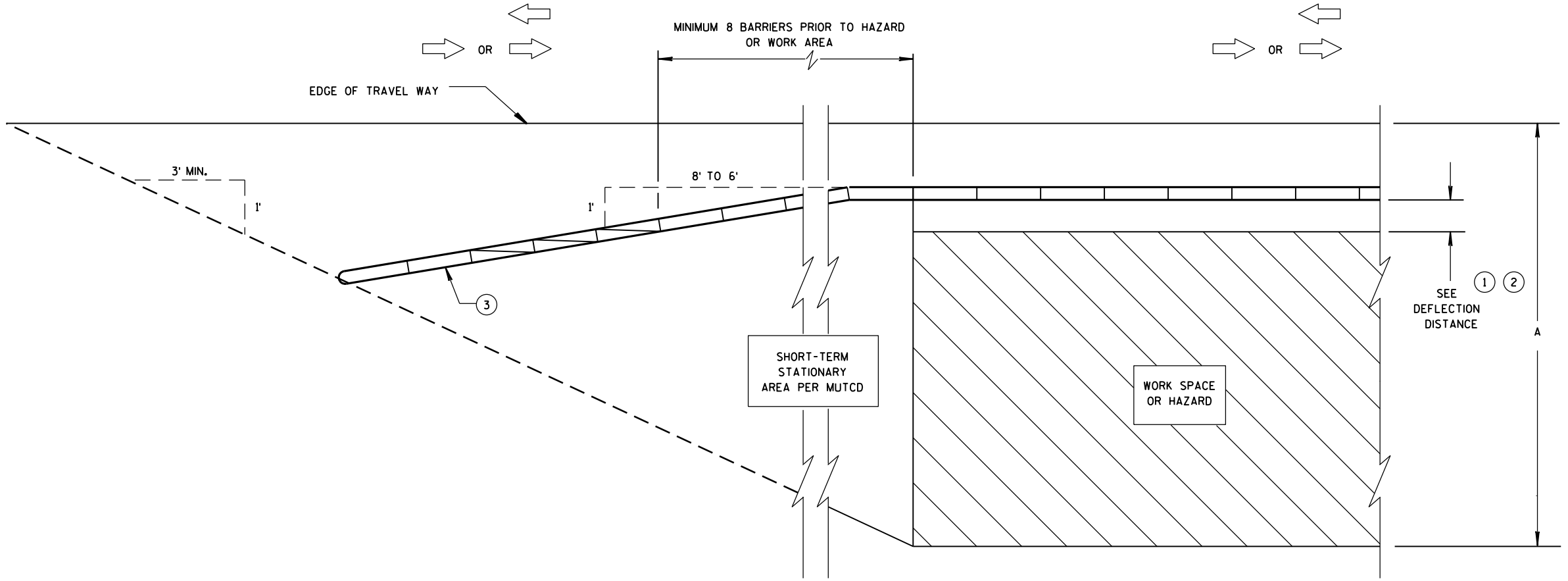
(3) ANCHOR TEMPORARY BARRIER ACCORDING TO CRASH CUSHION OR SAND BARREL MANUFACTURER'S RECOMMENDATIONS. IF MANUFACTURER'S RECOMMENDATIONS ARE NOT PROVIDED, ANCHOR 3 PINS ON TRAFFIC SIDE.

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

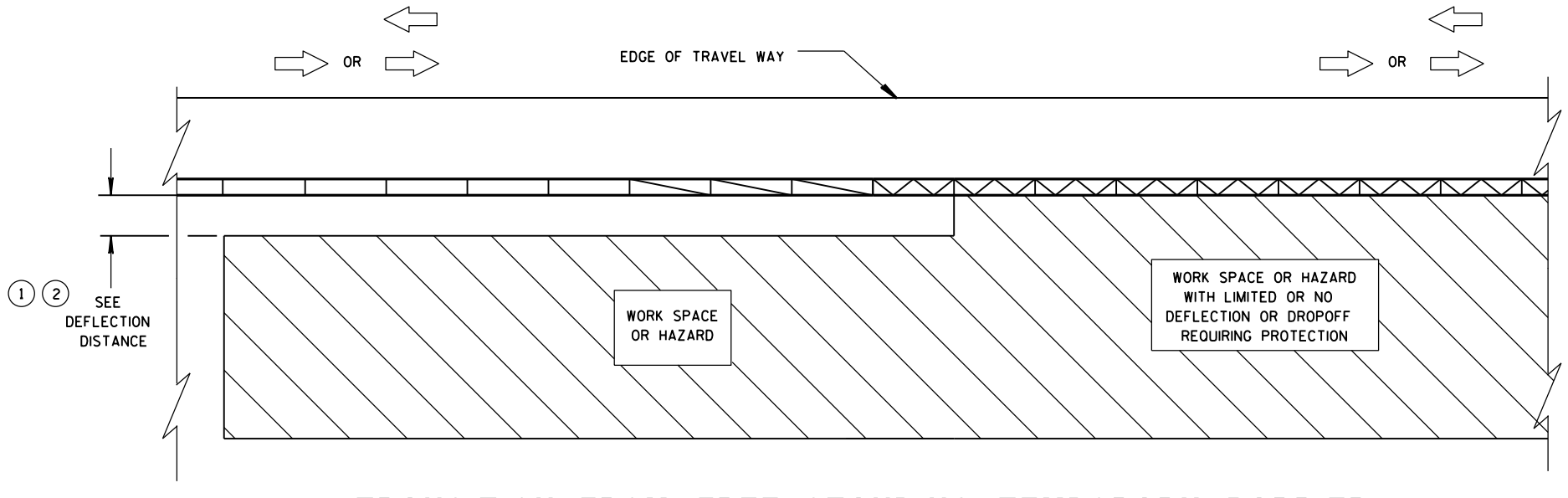
STATE OF WISCONSIN
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S.D.D. 14 B 8-2a
S.D.D. 14 B 8-2a



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE - FLARED INSTALLATION



TRANSITION FROM FREE STANDING TEMPORARY BARRIER TO ANCHORED BARRIER

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

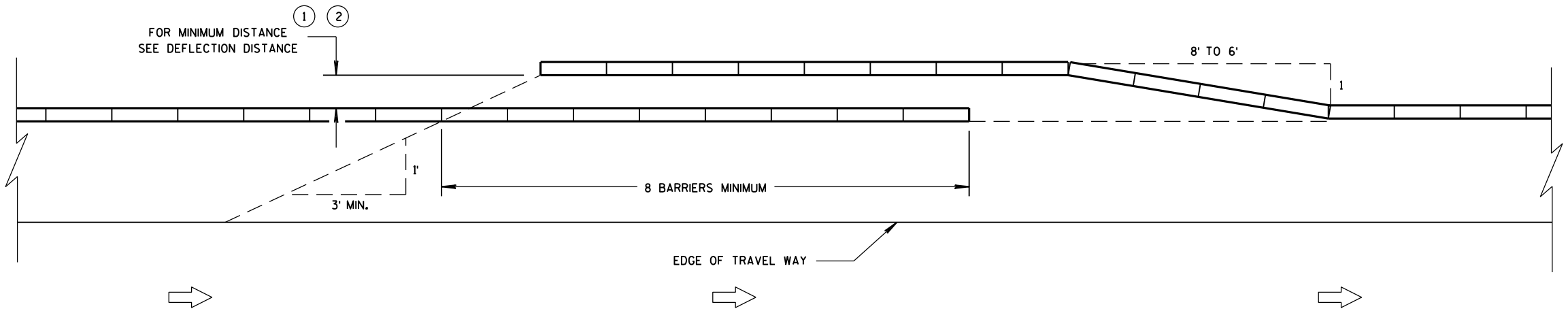
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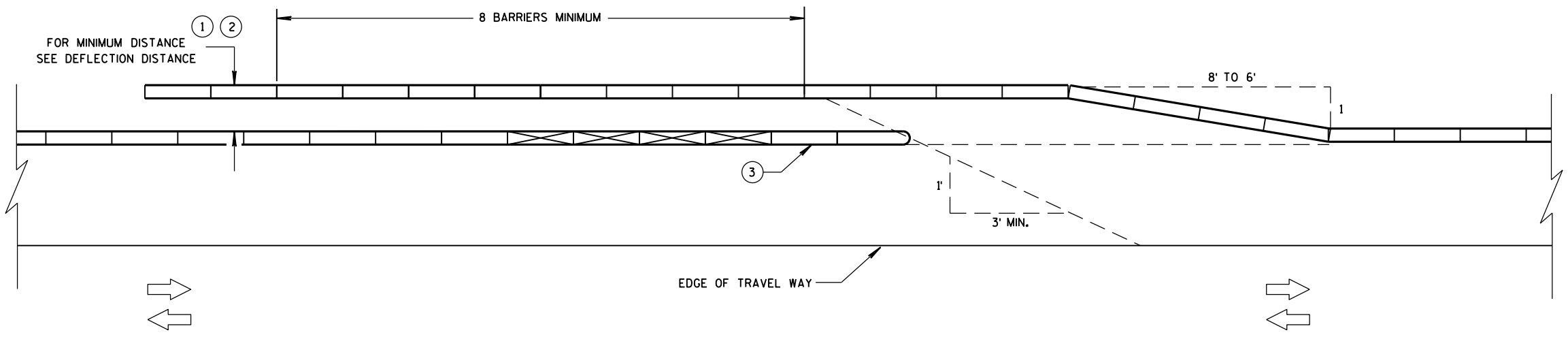
S.D.D. 14 B 8-2b

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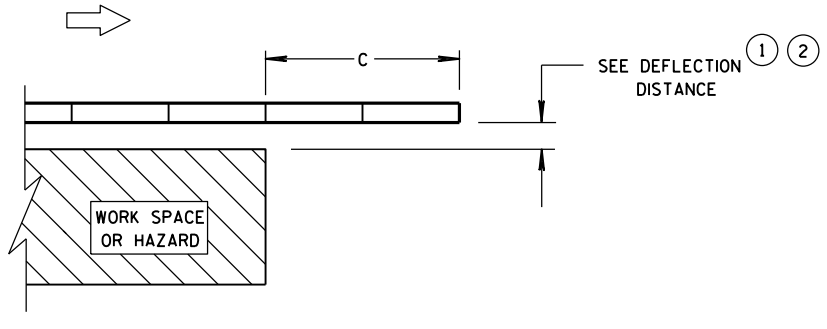
S.D.D. 14 B 8-2b



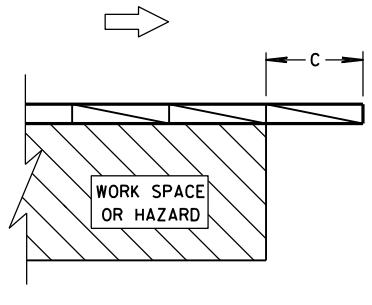
TEMPORARY BARRIER OVERLAP - ONE-WAY TRAFFIC



TEMPORARY BARRIER OVERLAP - TWO-WAY TRAFFIC



ENDING TEMPORARY BARRIER DOWNSTREAM - UNANCHORED



ENDING TEMPORARY BARRIER DOWNSTREAM - ANCHORED

LEGEND

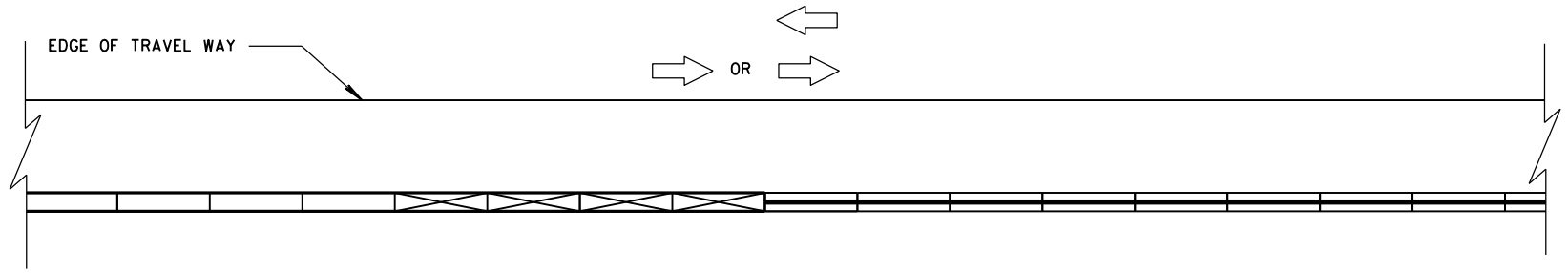
- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

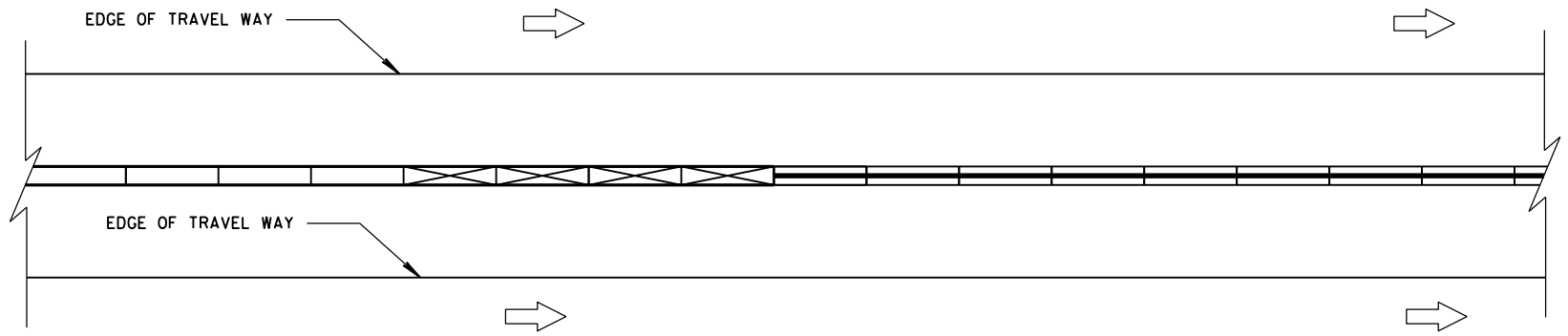
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CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON ONE SIDE



CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON BOTH SIDES

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR
SAND BARREL ARRAY

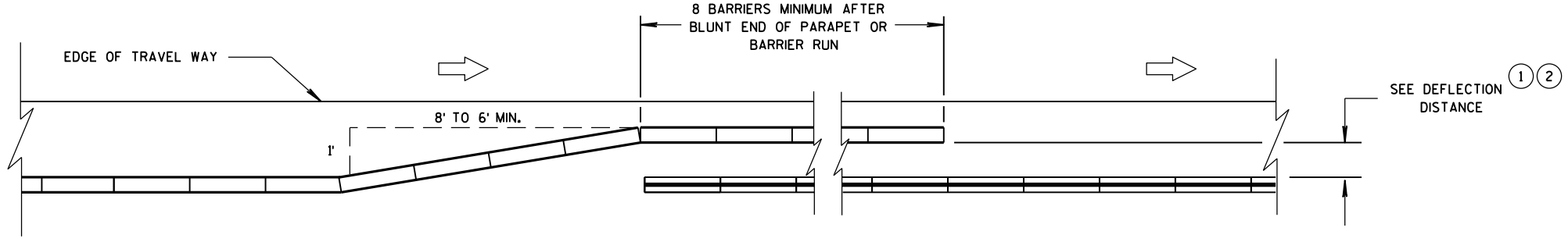
SEE FREE STANDING TRANSITION
TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION
TO TIED-DOWN SYSTEM DETAILS

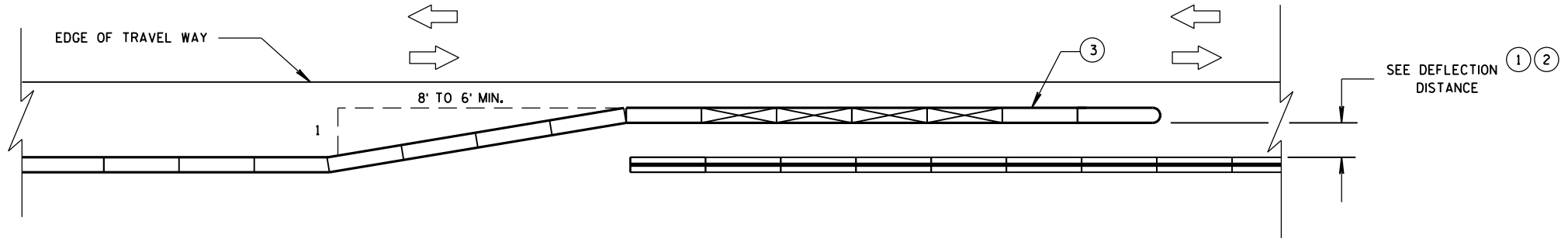
3 PINS PLACED ON
TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER
OR CONCRETE PARAPET

FREE STANDING TEMPORARY
BARRIER



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
ONE WAY TRAFFIC



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
TWO WAY TRAFFIC

CRASH CUSHION/SAND BARREL
ARRAY AND OTHER TEMPORARY
BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
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LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

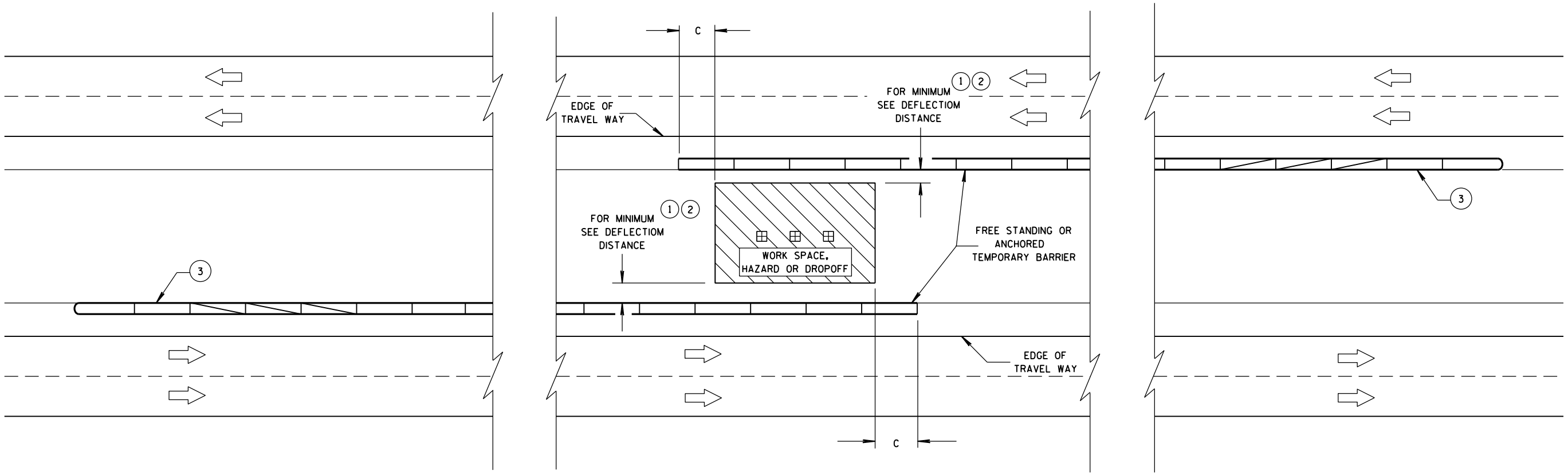
3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET

FREE STANDING TEMPORARY BARRIER

DIMENSION C TABLE (2)

AVAILABLE DEFLECTION DISTANCE	MINIMUM LENGTH OF BARRIER BEYOND HAZARD FT
GREATER THAN 8'	12.5
LESS THAN OR EQUAL TO 8' BUT GREATER THAN 4'	50
LESS THAN OR EQUAL TO 4'	100



CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINNER
FHWA

6

S.D.D. 14 B 8-2e

1. WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

2. USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

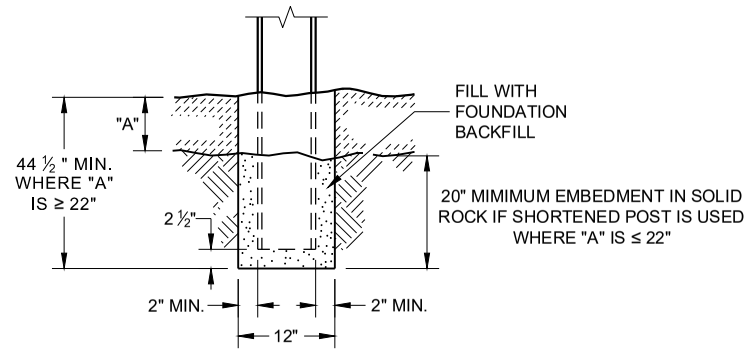
3. IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

4. WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

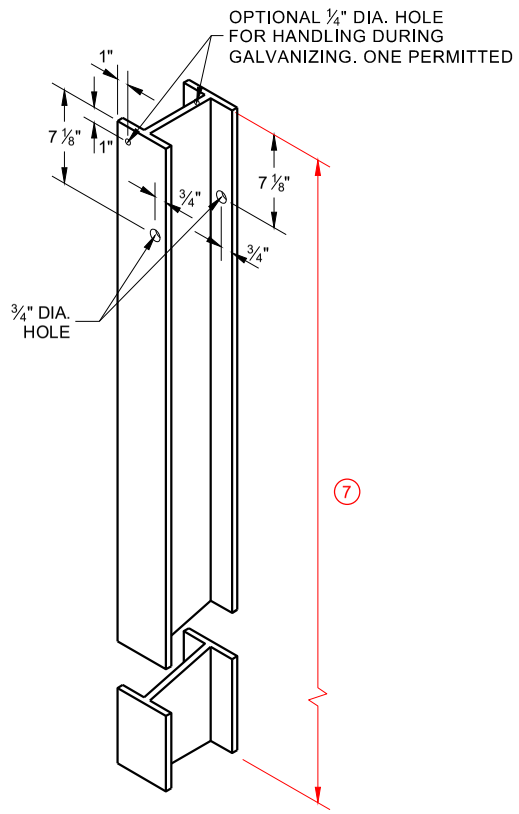
5. FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

6. WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

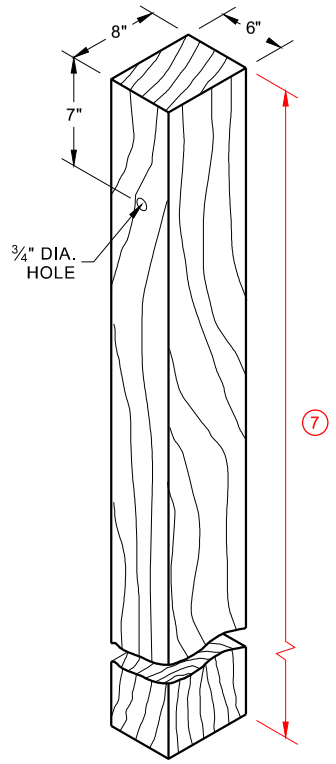
7. TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



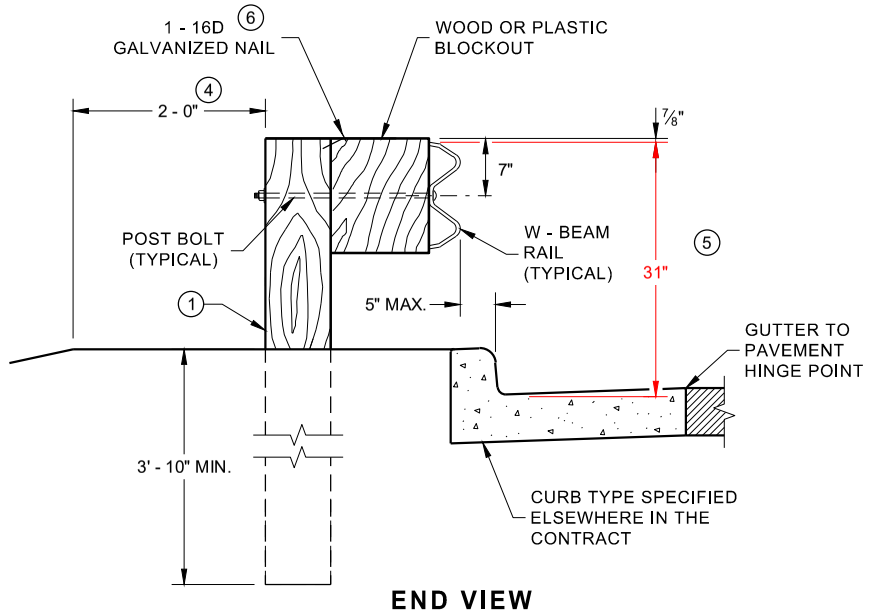
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



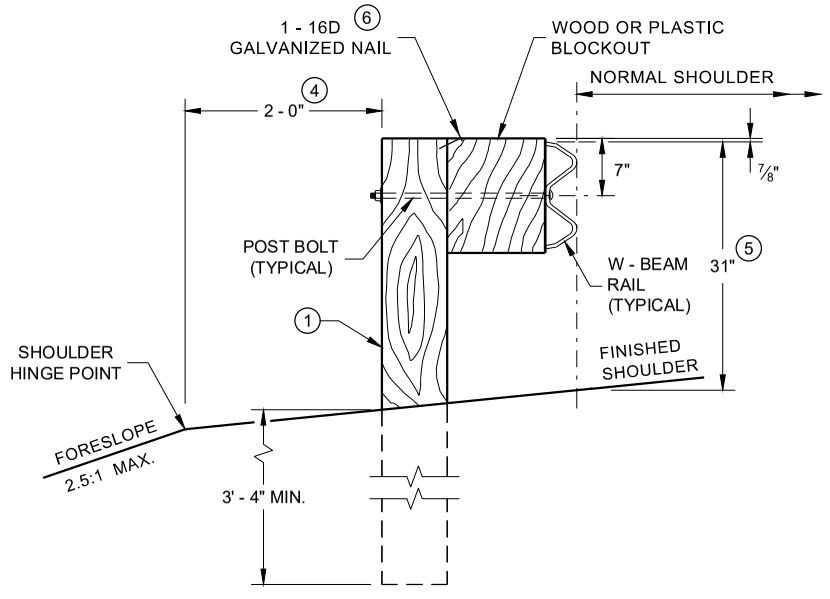
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



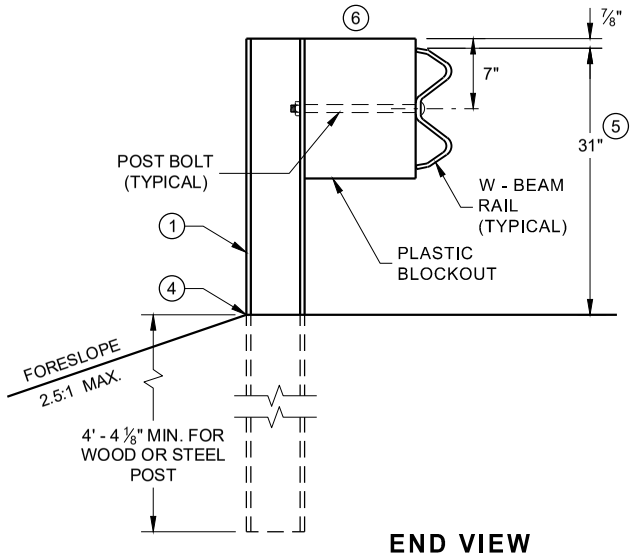
WOOD POST (6" X 8") NOMINAL (1)



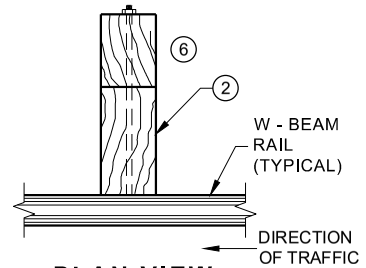
END VIEW
LOCATED ALONG A CURBED ROADWAY



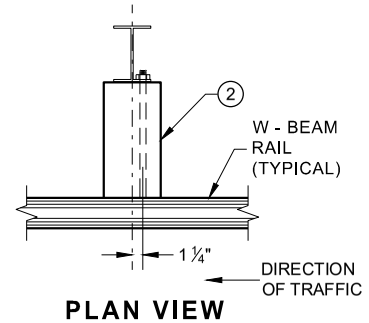
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



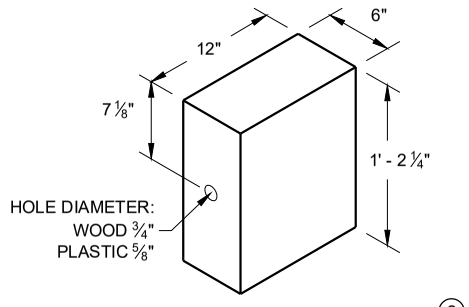
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD OR PLASTIC BLOCKOUT (2)

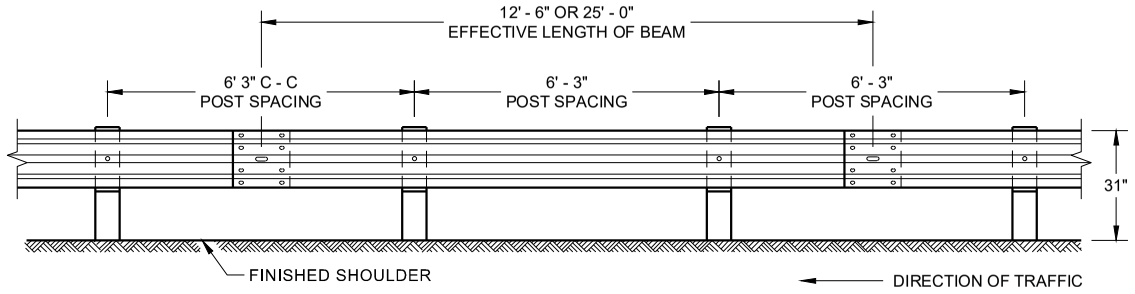
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

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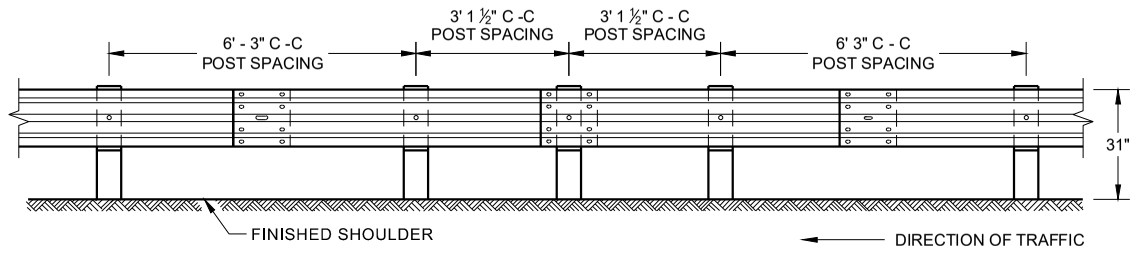
SDD 14B42 - 06a

SDD 14B42 - 06a

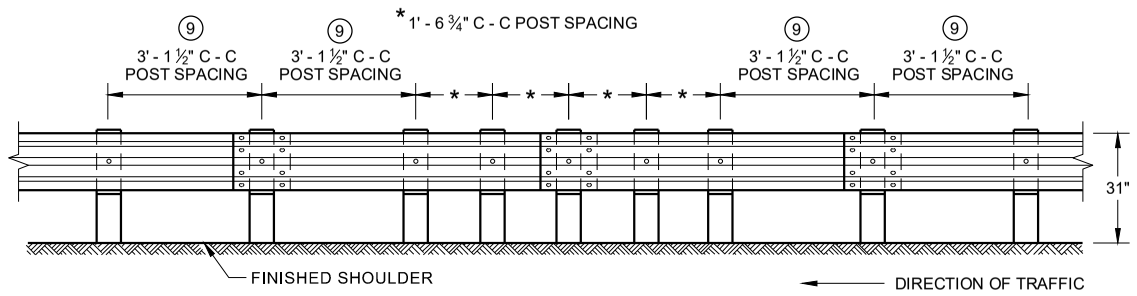
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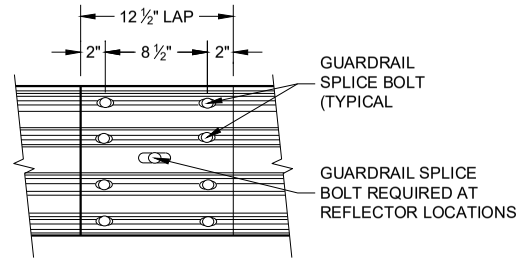
FRONT VIEW
POST SPACING STANDARD INSTALLATION



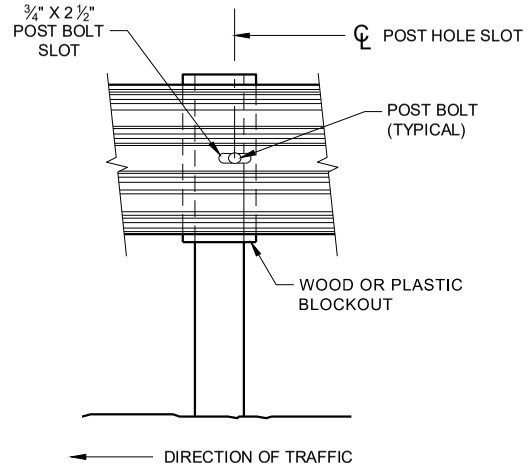
FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



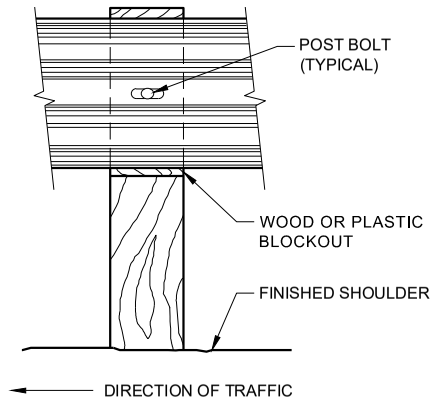
FRONT VIEW
QUARTER POST SPACING (QS)



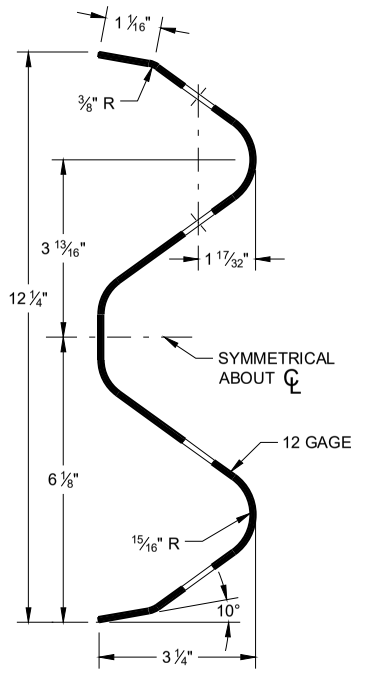
FRONT VIEW
MID-SPAN BEAM SPLICE



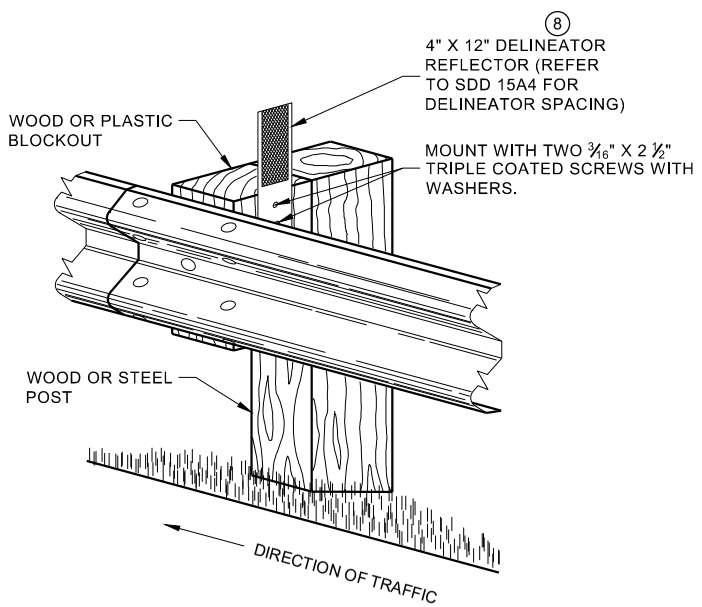
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

GENERAL NOTES

⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.

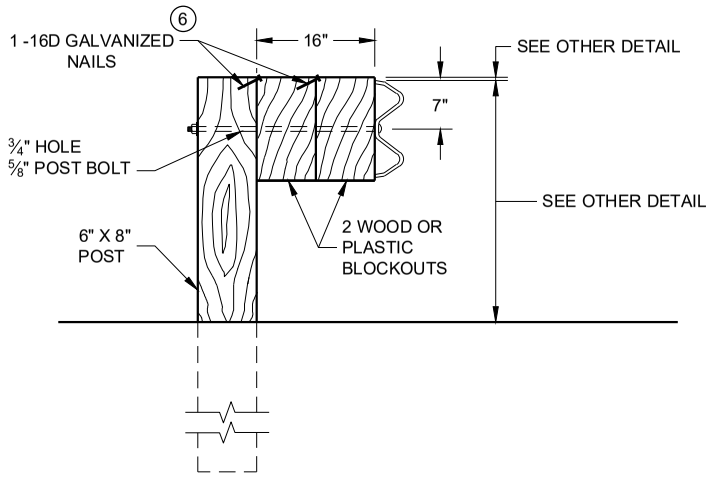
⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ¾" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

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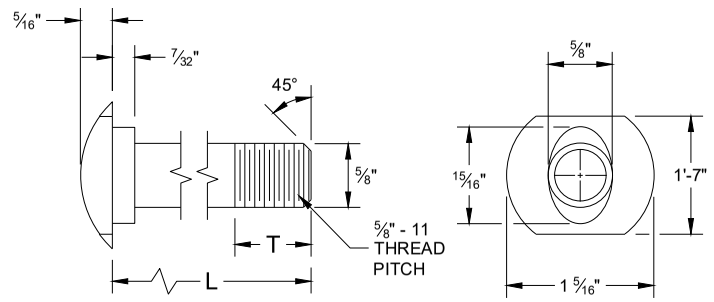


DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

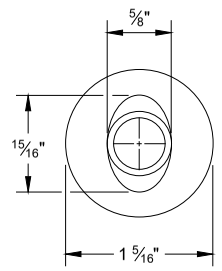
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3/16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

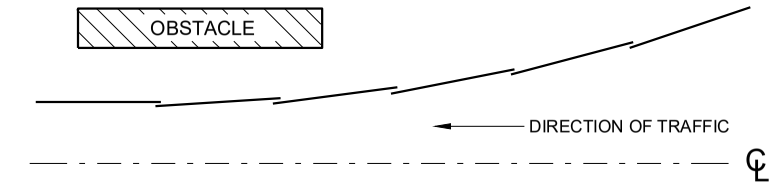


POST BOLT TABLE

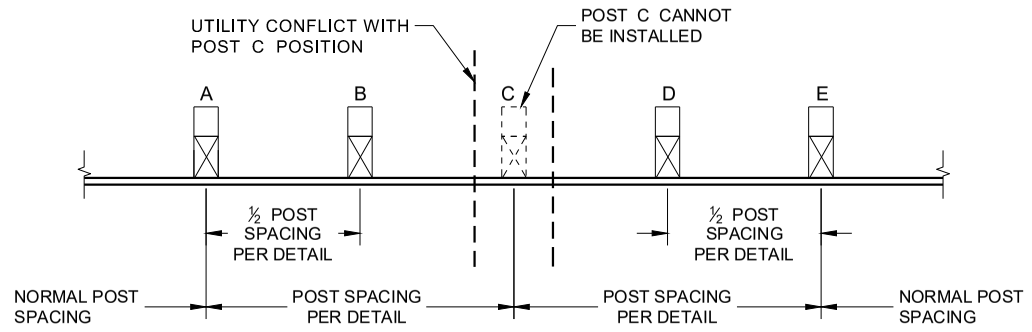
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



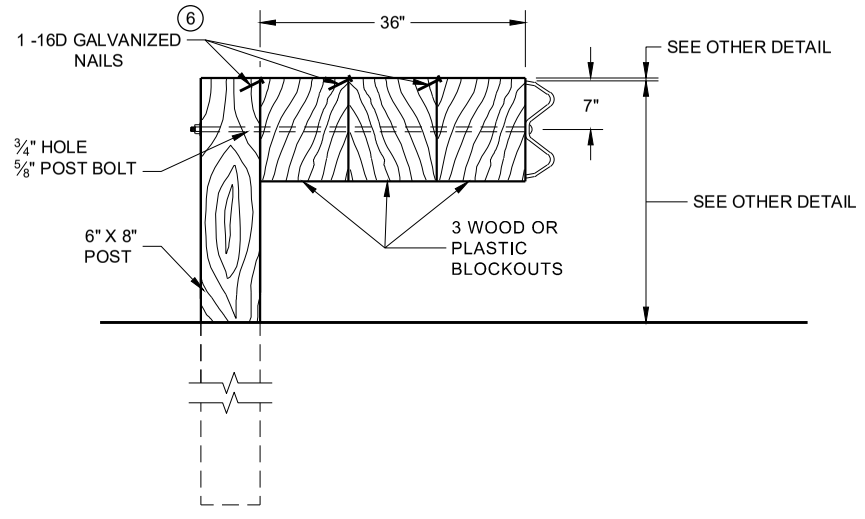
ALTERNATE BOLT HEAD



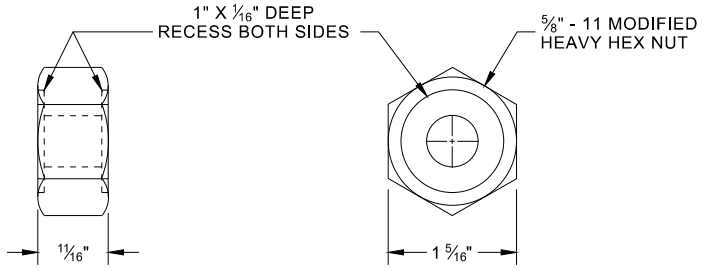
PLAN VIEW
BEAM LAPPING DETAIL



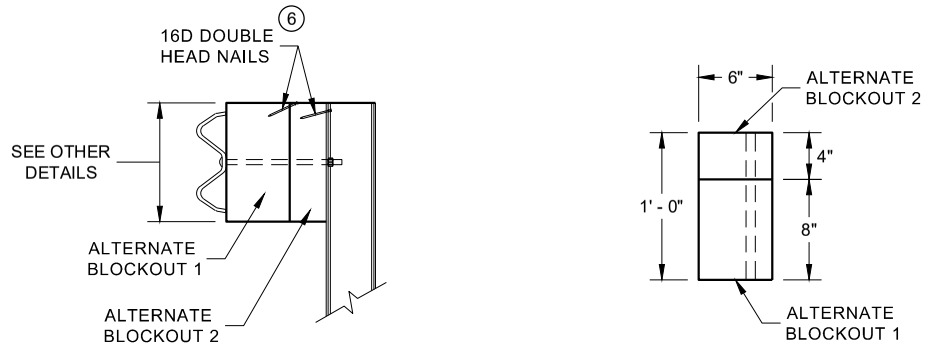
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW

PLAN VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

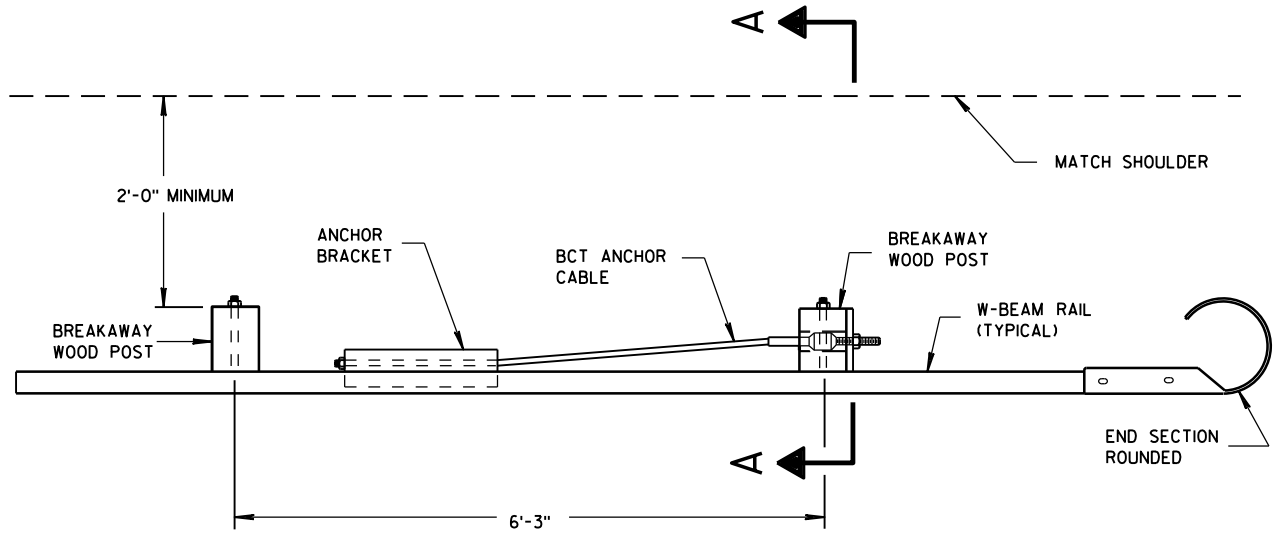
(6) WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

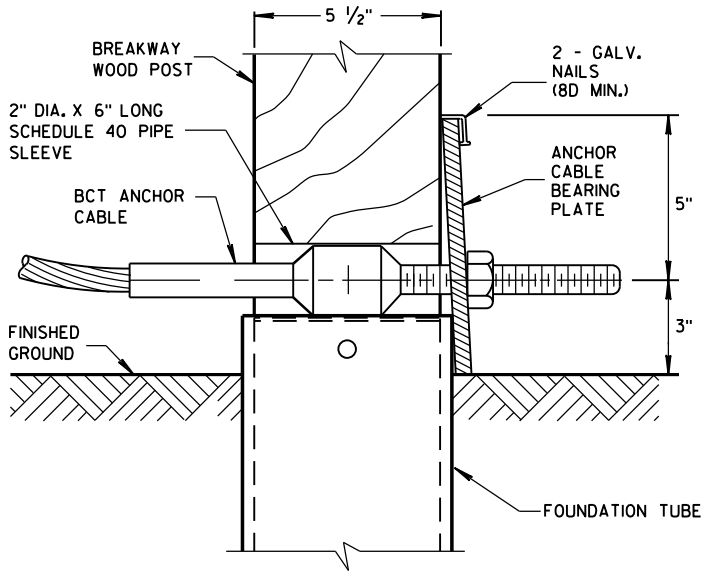
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PLAN VIEW



DETAIL A

POST NO. 1
GROUNG STRUT NOT SHOWN FOR CLARITY.

GENERAL NOTES

SEE SDD 14 B 42 FOR MORE INFORMATION.

END SECTION BOLTS AND NUTS HAVE THE SAME MATERIAL REQUIREMENTS AS SPLICE BOLTS.

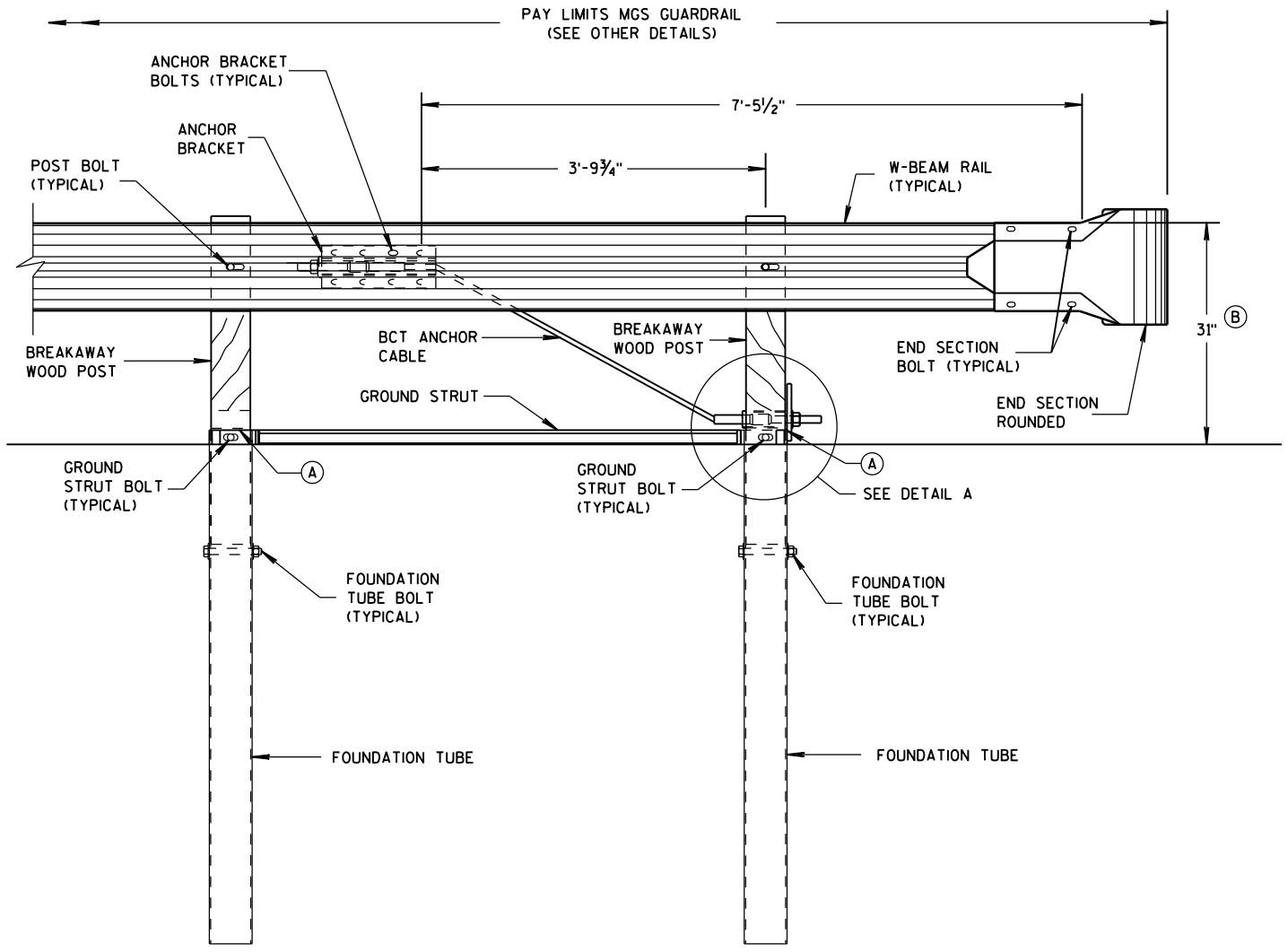
FOUNDATION TUBE BOLTS ARE ⅞" DIAMETER ASTM A307 HEX HEAD BOLT. FOUNDATION TUBE BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 ⅞" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

ANCHOR BRACKET AND GROUND STRUT BOLTS ARE A ⅝" DIAMETER ASTM A307 HEX HEAD BOLT. ANCHOR BRACKET BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 ⅝" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

W-BEAM END SECTION ROUNDED HAS THE SAME MATERIAL PROPERTIES AS STANDARD STEEL RAIL.

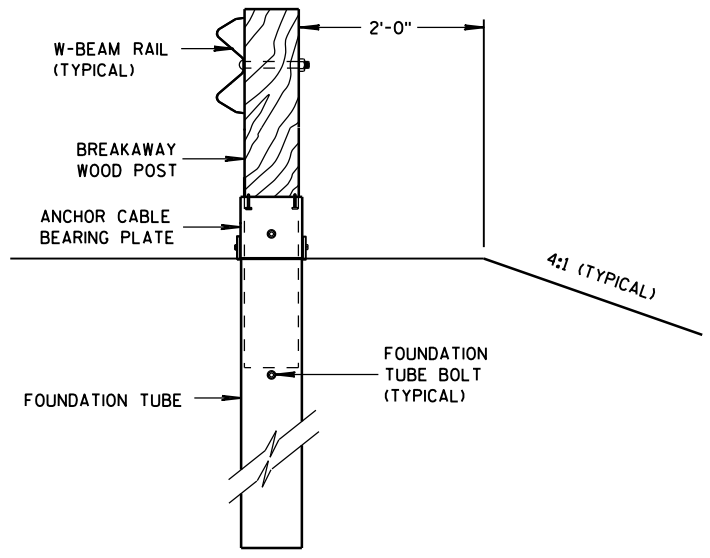
(A) TOP OF FOUNDATION TUBE SHALL BE NO MORE THAN 3" ABOVE FINISHED GROUND.

(B) FOR NEW CONSTRUCTION TOP OF RAIL IS 31" ± 1".
FOR EXISTING INSTALLATIONS TOP OF RAIL IS BETWEEN 27¾" TO 32" ± 1".

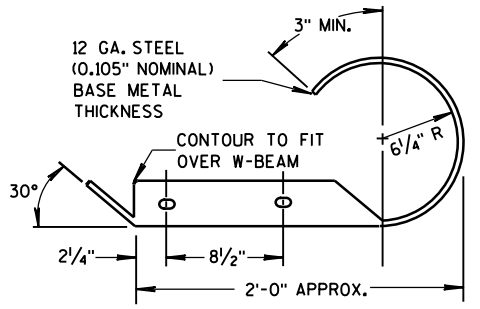


FRONT VIEW

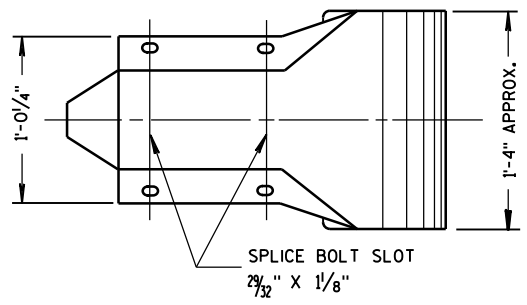
END RAIL DETAIL



SECTION A-A



PLAN VIEW



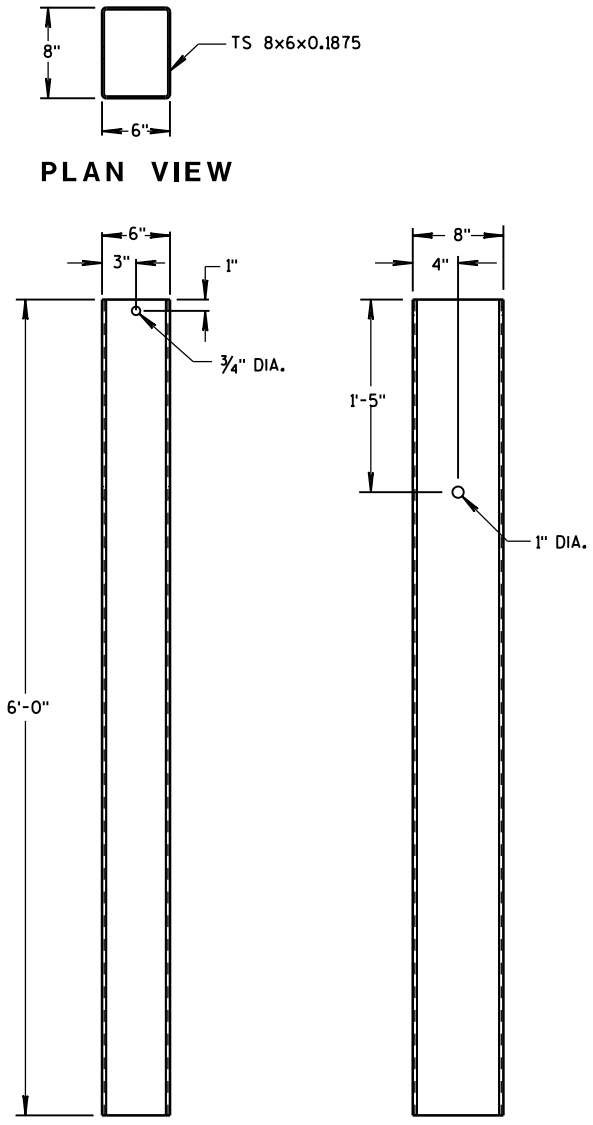
FRONT VIEW

W BEAM END SECTION ROUNDED

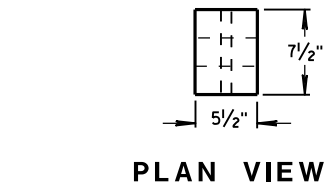
MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

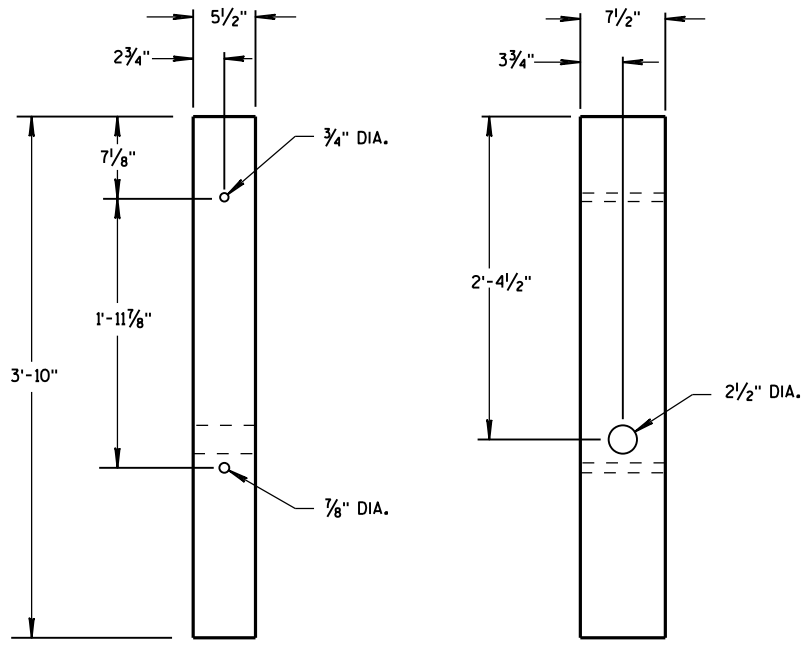
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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S.D.D. 14 B 47-2a



FOUNDATION TUBE



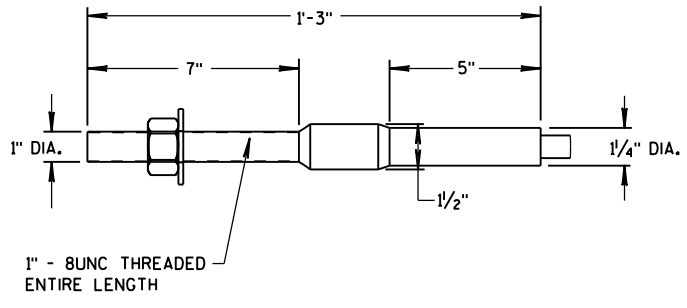


BREAKAWAY WOOD POST

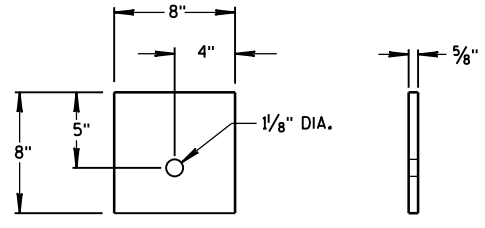
GENERAL NOTES

BCT ANCHOR CABLE IS A ¾" DIAMETER 6X19 IWRC IPS GALVANIZED WIRE ROPE. THE SWAGED FITTINGS AND STUD ARE REQUIRED. END FITTING SHALL BE MACHINED FROM HOT-ROLLED CARBON STEEL CONFORMING TO ASTM A576 GRADE 1035 AND GALVANIZED ACCORDING TO ASTM A123. TREADED STUD SHALL CONFORM TO ASTM A325 OR SAE GRADE 5. MINIMUM BREAKING STRENGTH OF WIRE ROPE IS 43,000 LB. WIRE ROPE IS TO BE TAUT.

BCT ANCHOR CABLE



DETAIL B



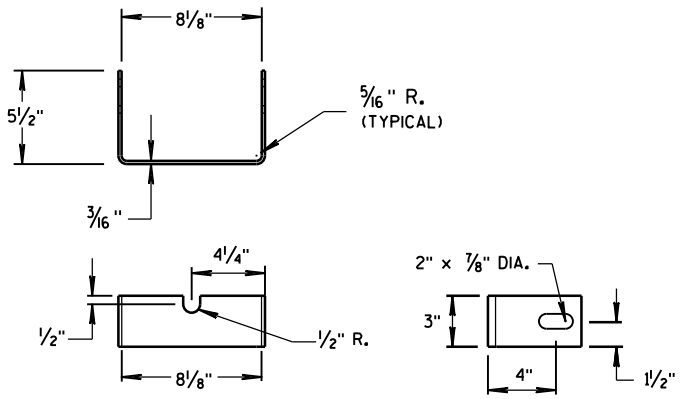
ANCHOR CABLE
BEARING PLATE

MIDWEST GUARDRAIL
SYSTEM (MGS) TYPE 2 TERMINAL

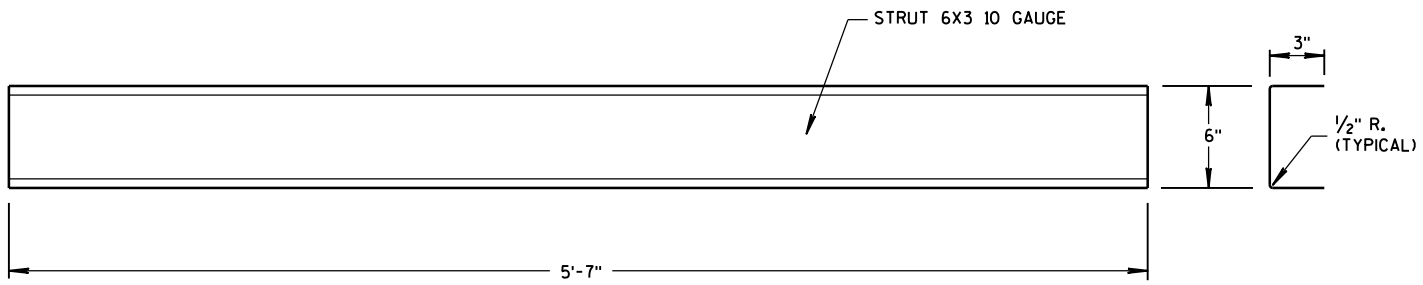
STATE OF WISCONSIN
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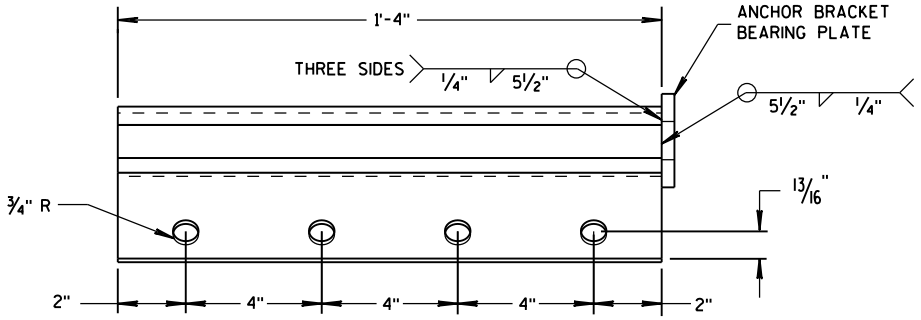
S.D.D. 14 B 47-2b

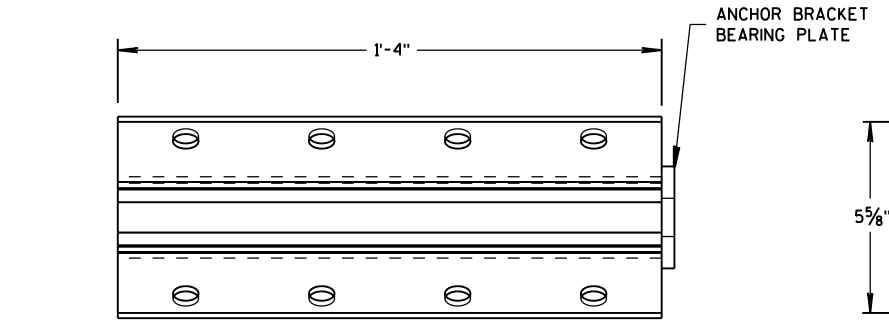


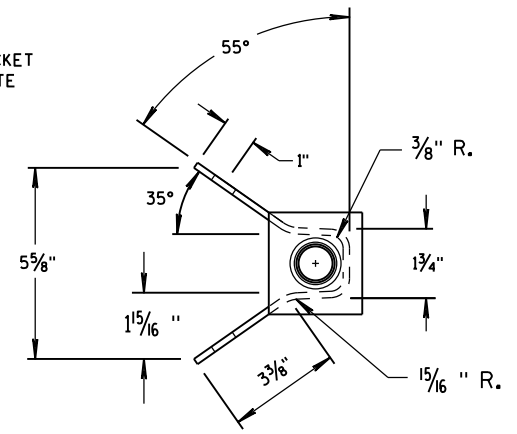
YOKE DETAIL



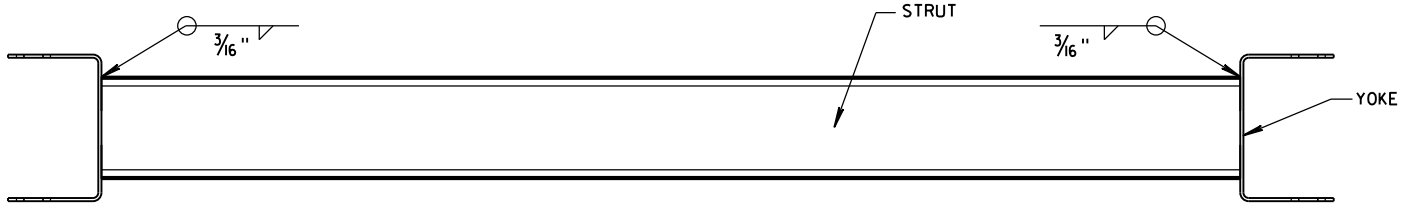
STRUT DETAIL



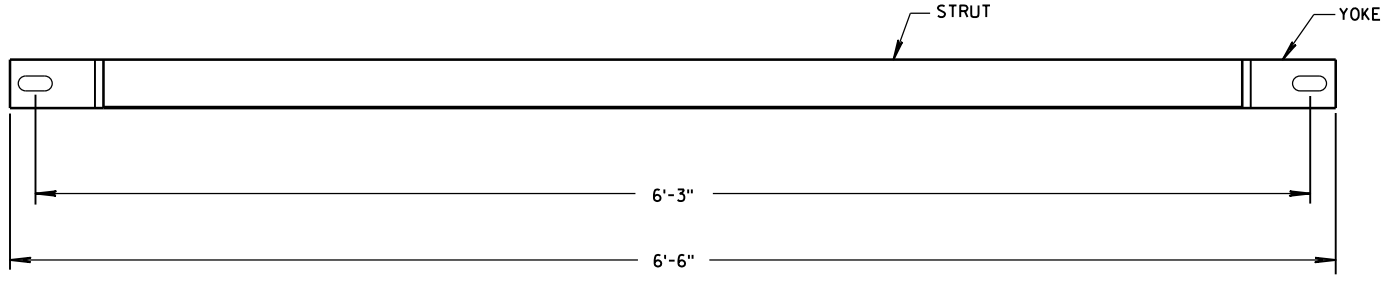




ANCHOR BRACKET

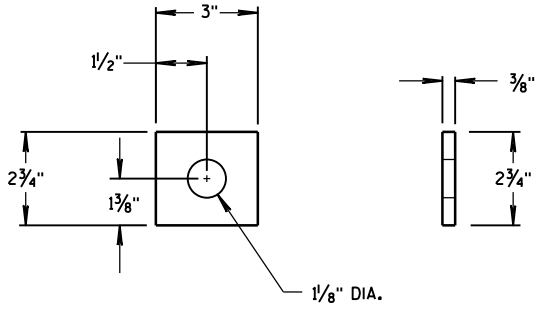


PLAN VIEW



FRONT VIEW

GROUND STRUT DETAIL



ANCHOR BRACKET BEARING PLATE

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

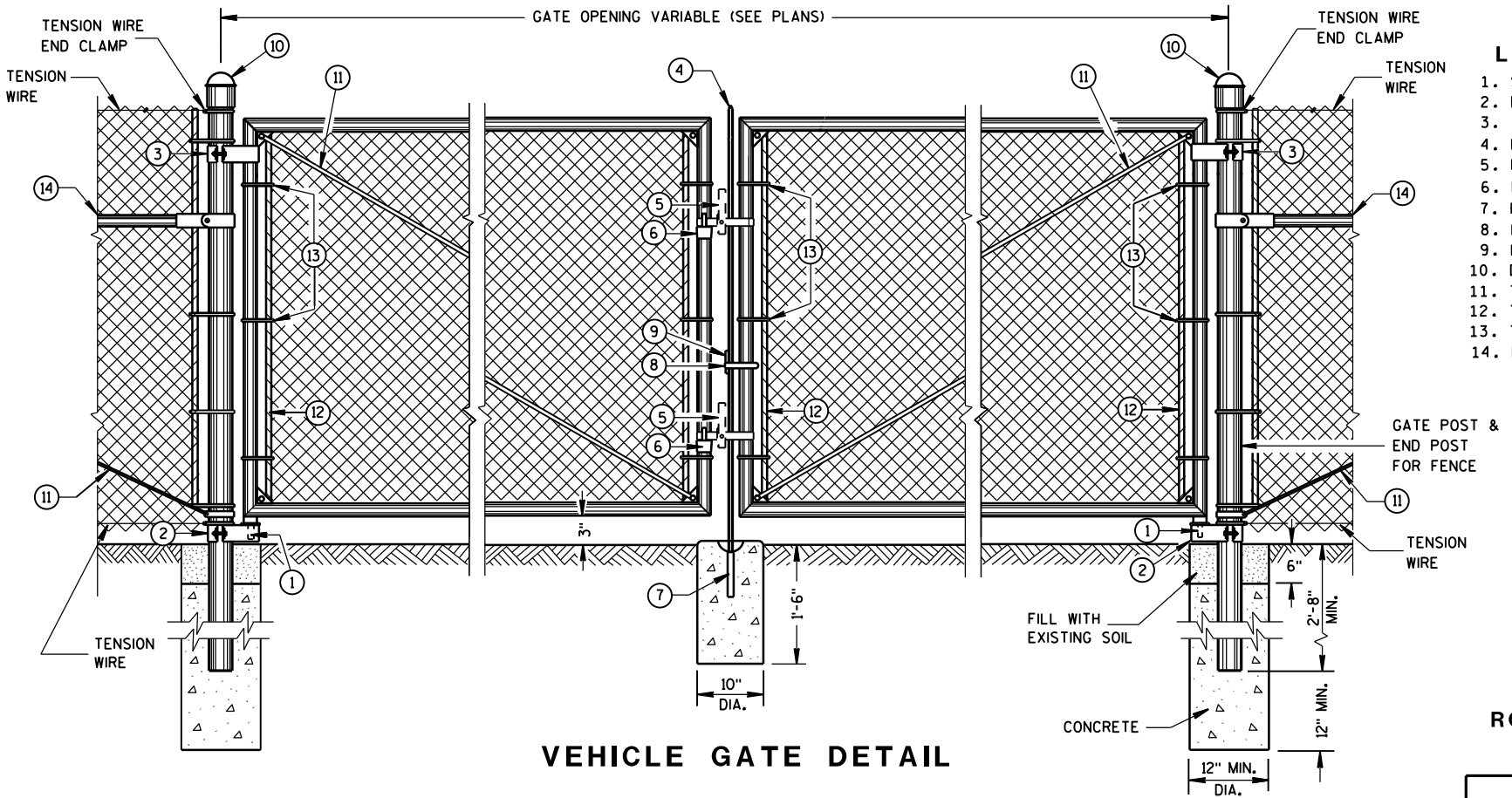
FHWA

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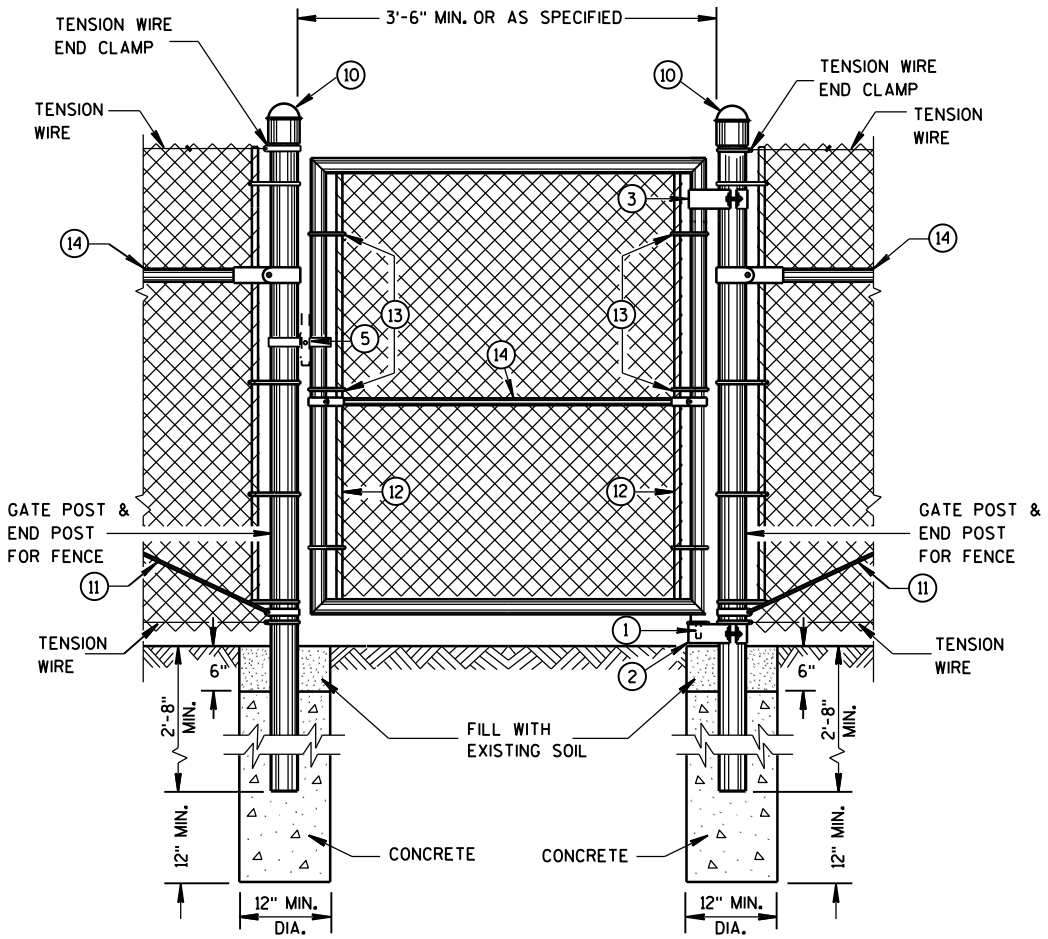
S.D.D. 14 B 47-2c

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S.D.D. 14 B 47-2c



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

LEGEND

1. STRAIGHT PLUG
2. BOTTOM HINGE
3. TOP HINGE
4. PLUNGER ROD
5. FULCRUM LATCH
6. FORK CATCH *
7. PLUNGER ROD CATCH
8. LOCK KEEPER GUIDE
9. LOCK KEEPER
10. DOME TOPS
11. TRUSS RODS
12. TENSION BAR
13. TENSION BANDS
14. BRACE RAIL

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

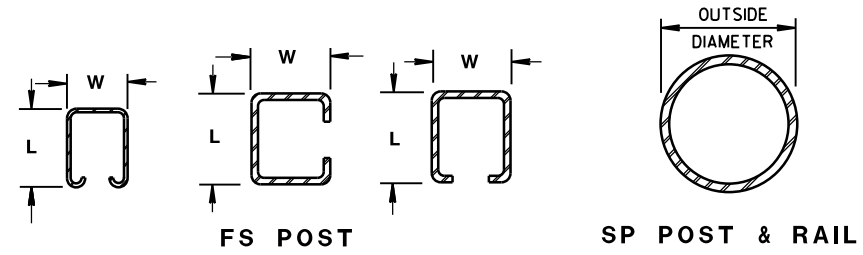
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.

USE TYPE 2, CLASS 3, MARCELLED/CRIMPED, TENSION WIRE PER ASTM A 817.



CROSS SECTIONS OF POSTS AND RAILS

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

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

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

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

BRACE RAIL TYPES

USE		TYPE
BRACE RAIL		SP1 OR FS1

** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

FENCE CHAIN LINK

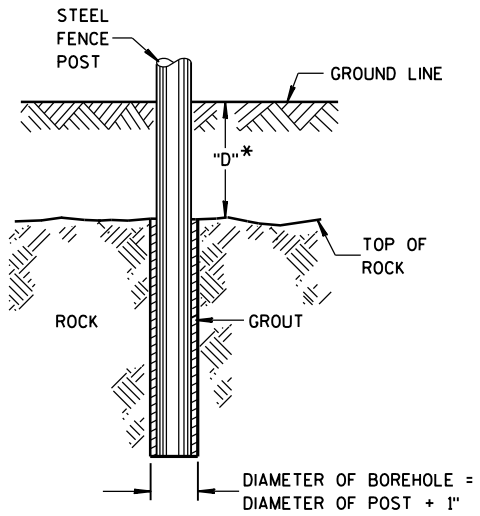
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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S.D.D. 15 B 3-15a

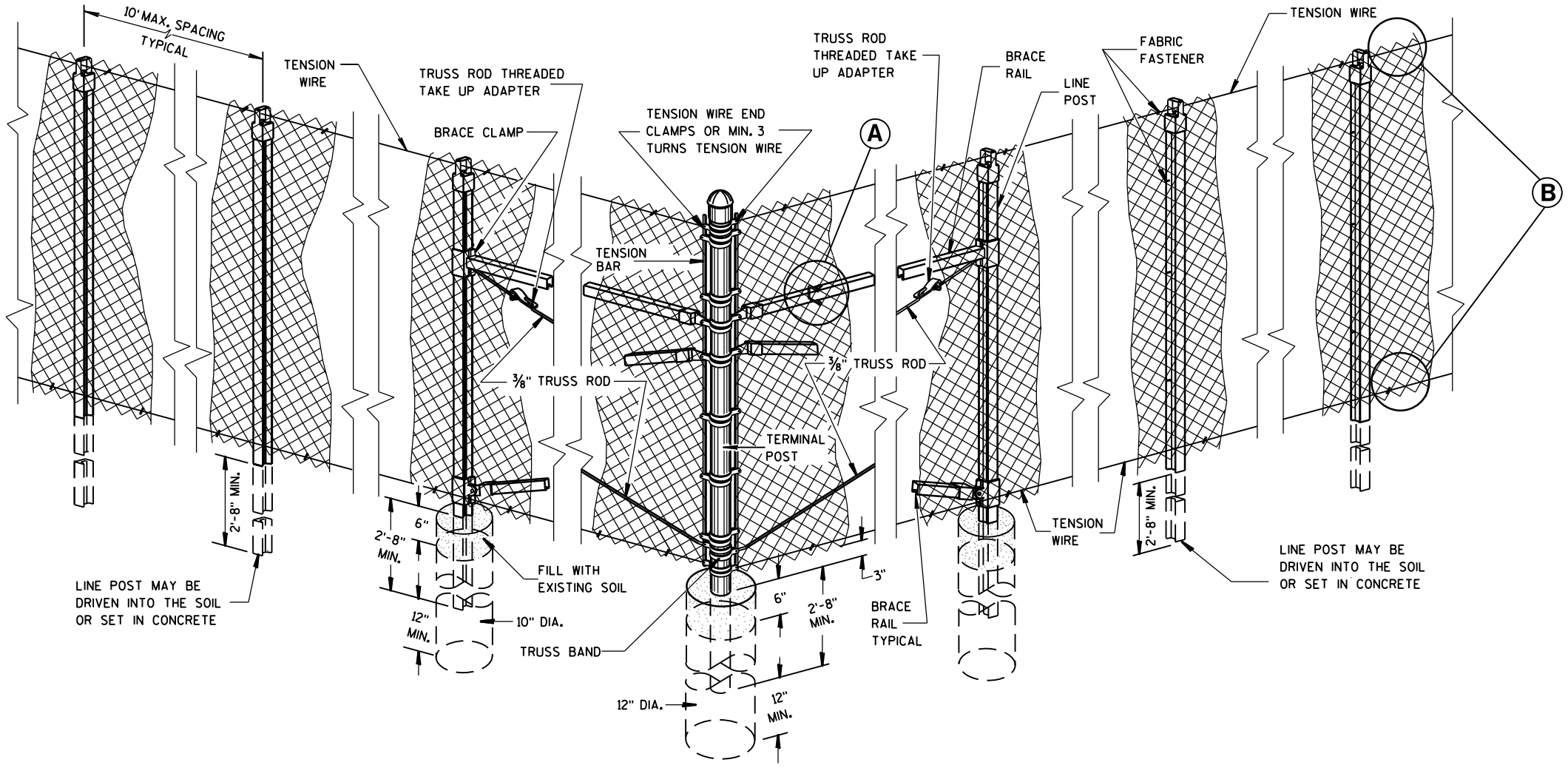
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S.D.D. 15 B 3-15a

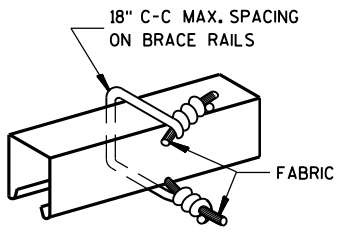


*IF "D" IS LESS THAN 2'-6", DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST



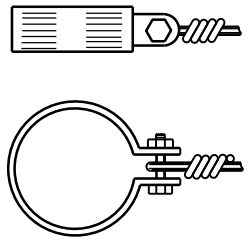
END, CORNER, ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS



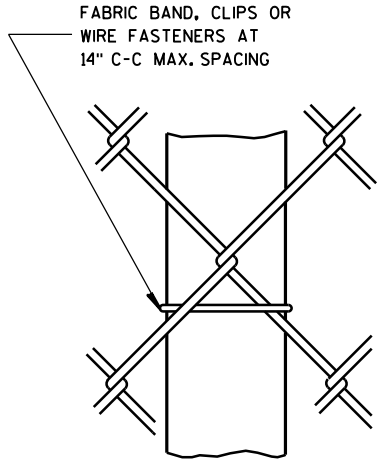
BRACE RAIL

FABRIC FASTENER

Ⓐ



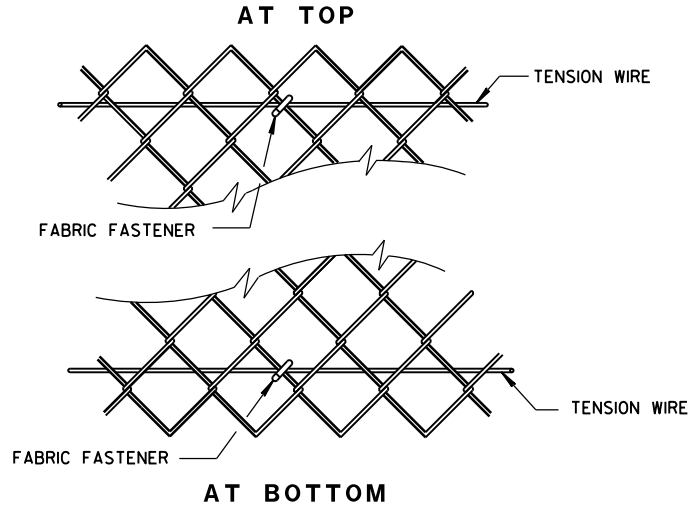
TENSION WIRE END CLAMP



LINE POST

FABRIC FASTENER

AT TOP



AT BOTTOM

SELVAGES

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FENCE CHAIN LINK

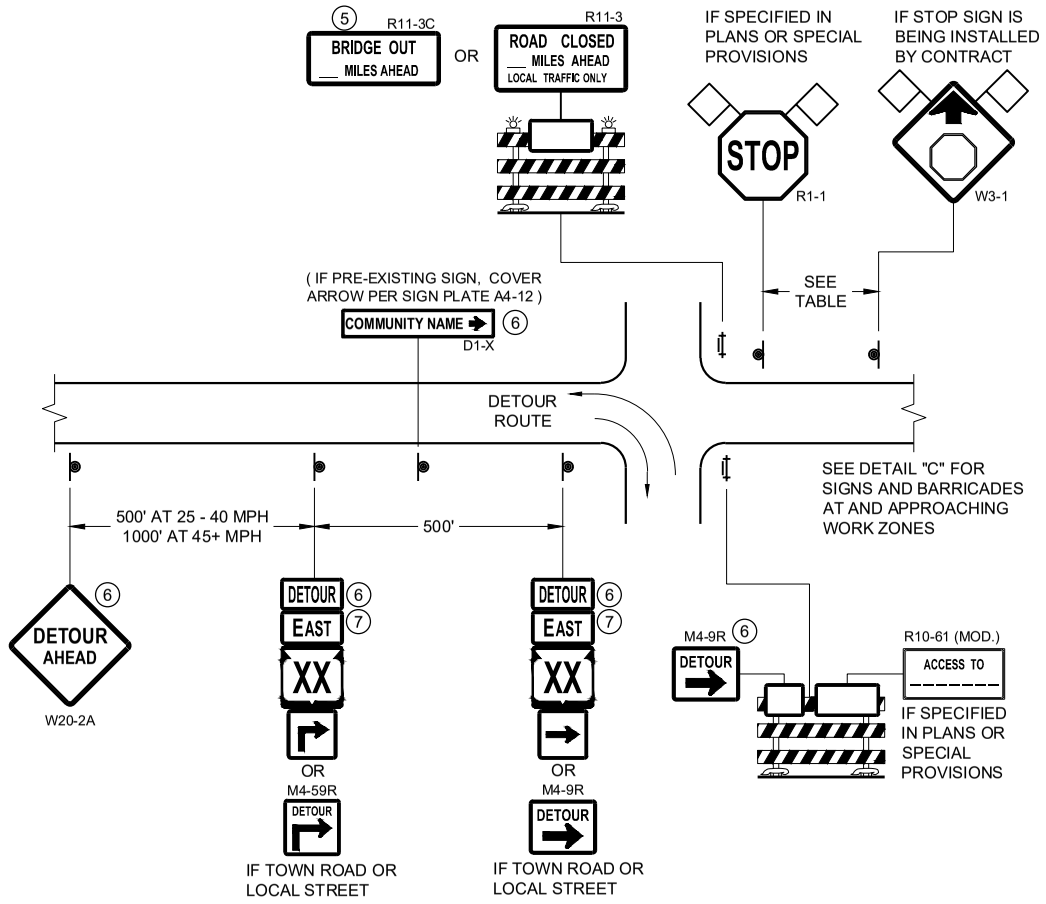
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

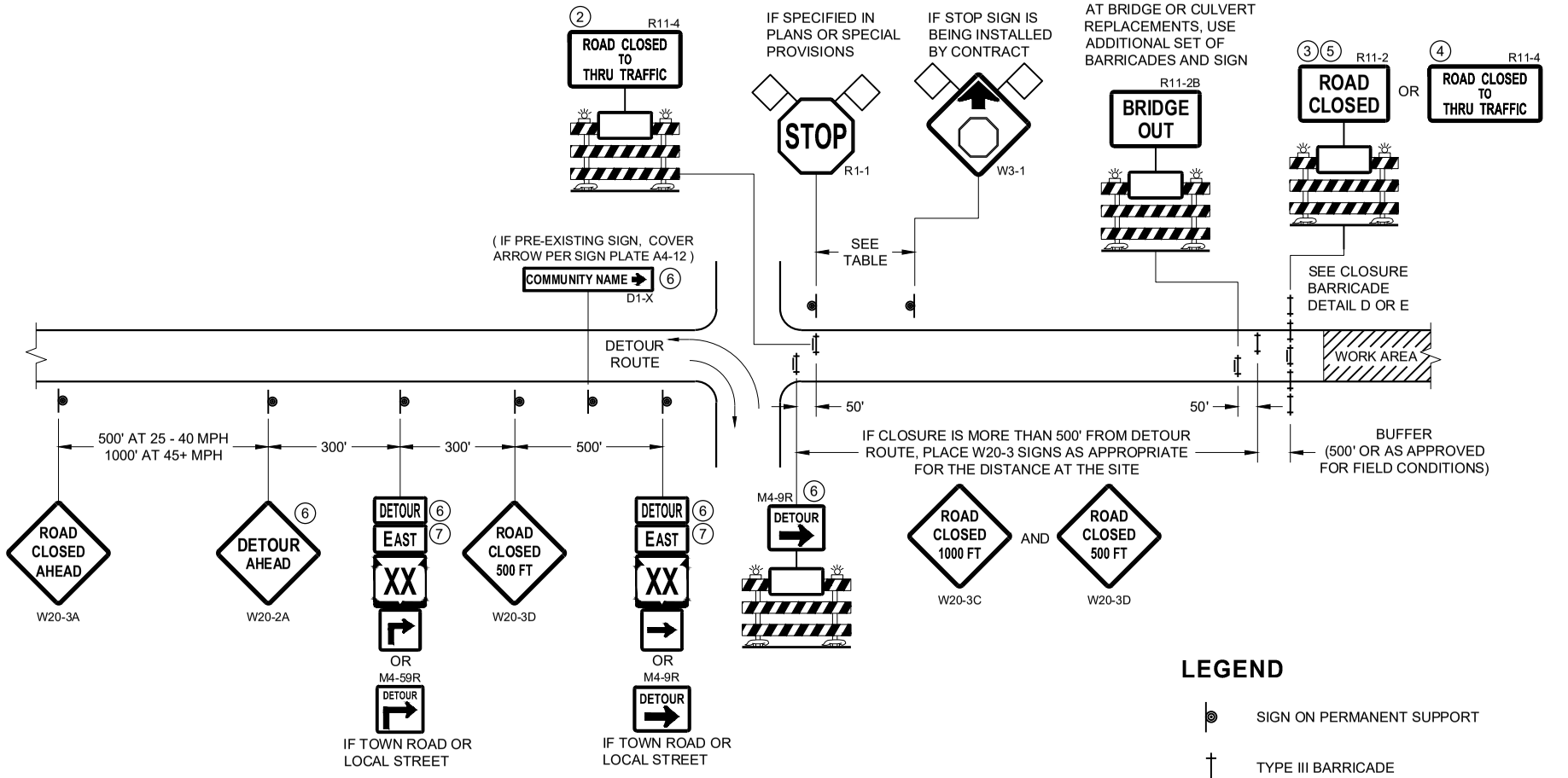
APPROVED
FEB. 2015 DATE
FHWA
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

383

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S.D.D. 15 B 3-15b



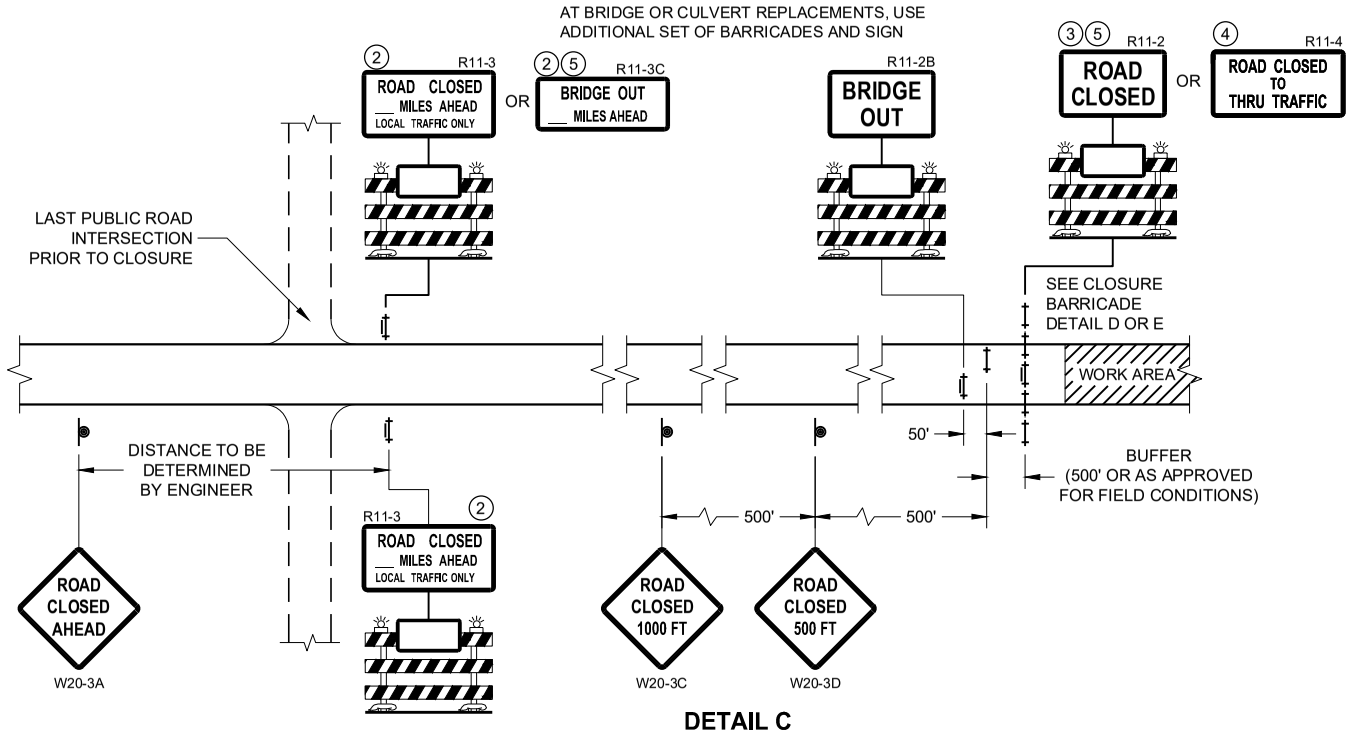


DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN OR EQUAL TO 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
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

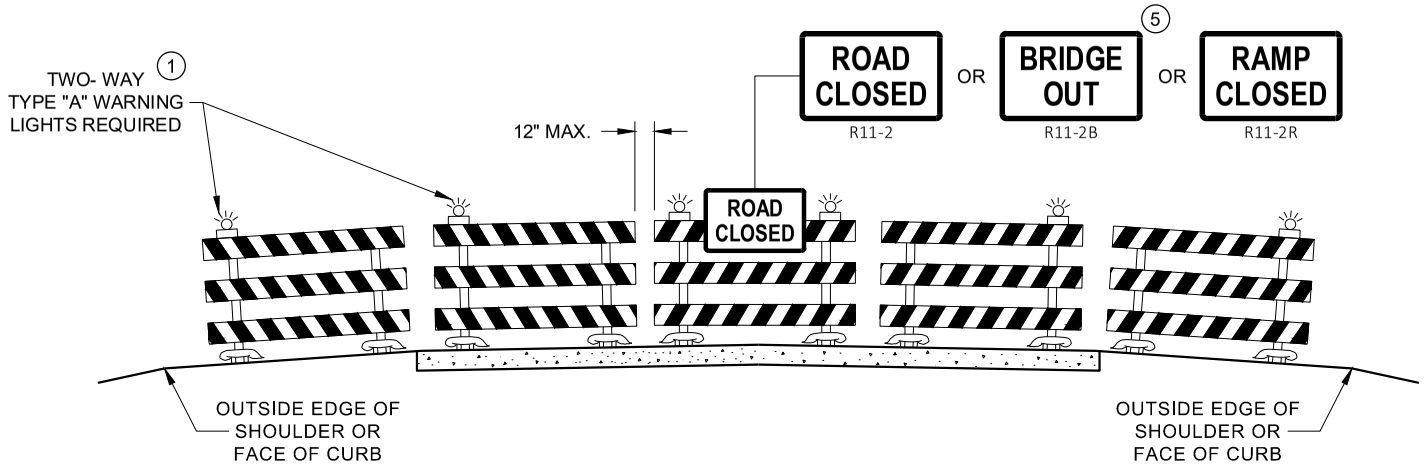
APPROVED
November 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

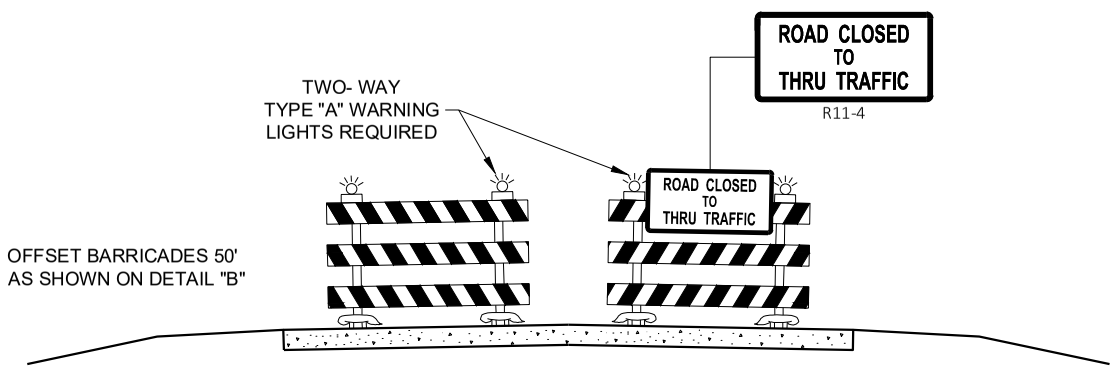
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SDD 15C02 - 07a



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 THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL 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 SHALL, 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" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- 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 AN 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 ROAD 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 VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER
FHWA

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SDD 15C02 - 07b

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SDD 15C02 - 07b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR — M4 - 8
- EAST — M3 - X
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

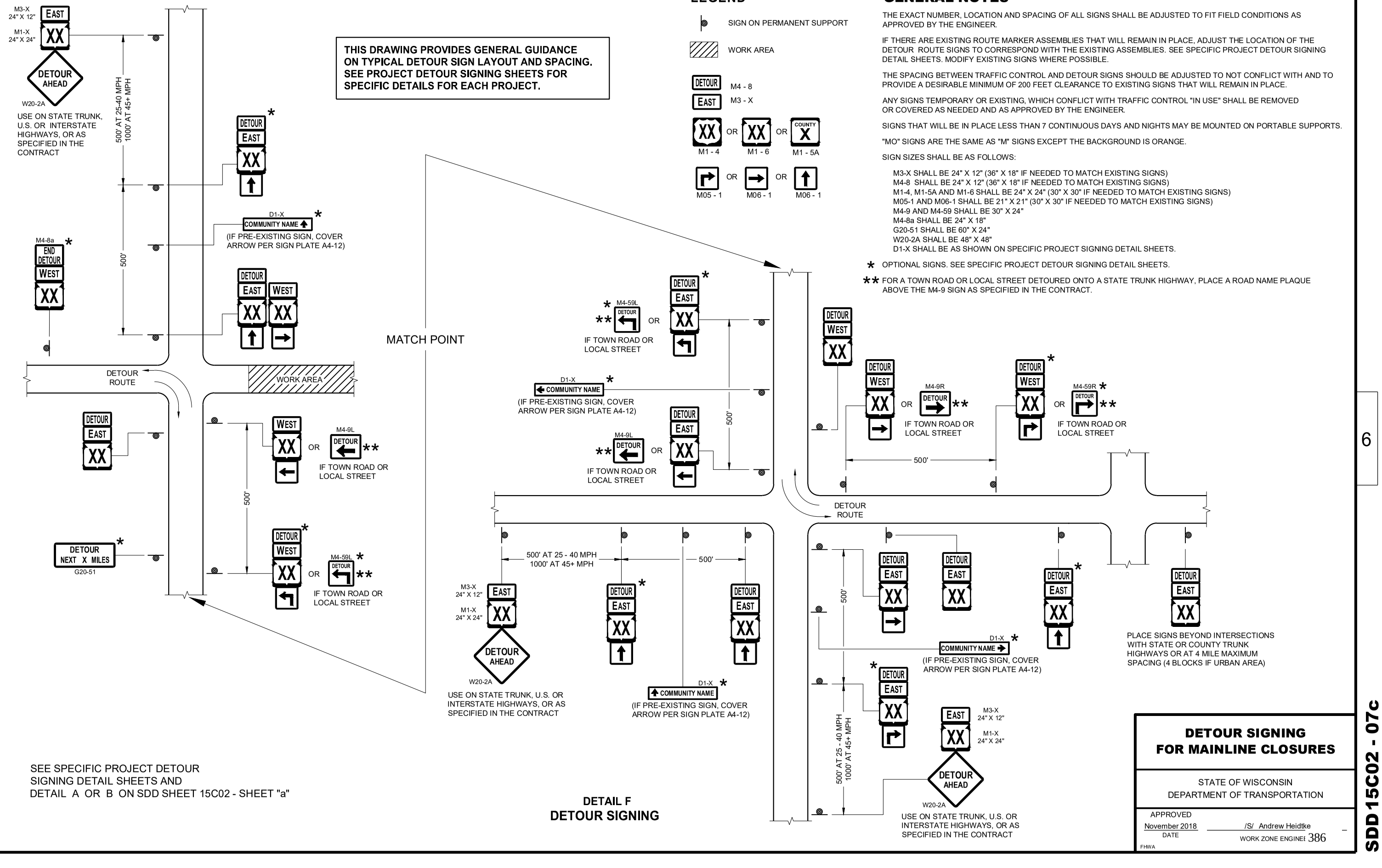
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- M4-9 AND M4-59 SHALL BE 30" X 24"
- M4-8a SHALL BE 24" X 18"
- G20-51 SHALL BE 60" X 24"
- W20-2A SHALL BE 48" X 48"
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD SHEET 15C02 - SHEET "a"

DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

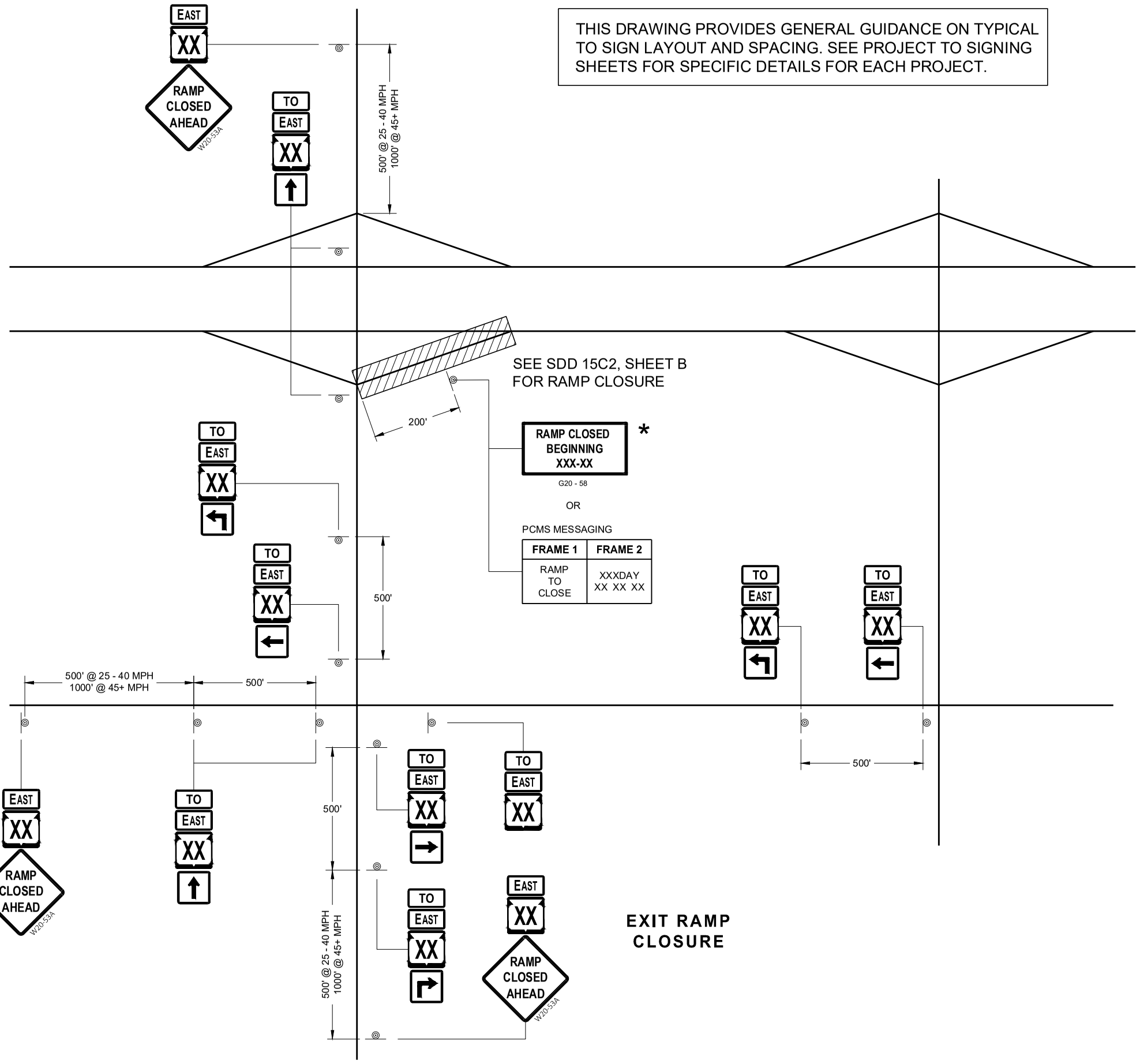
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15C02 - 07c

SDD 15C02 - 07c



EXIT RAMP CLOSURE

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL TO SIGN LAYOUT AND SPACING. SEE PROJECT TO SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

SIGN ON PERMANENT SUPPORT

TO EAST — MO4 - 5, M3 - X

XX M1 - 6 OR XX M1 - 4 OR INTERSTATE XX M1 - 1

M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR LAYOU

IF THERE ARE ANY ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE TO ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT TO SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND TO SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL " IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT SHALL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOW:
- M3 - X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- MO4 - 5 SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- M1 - 1, M1 - 4, AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS).
- MO5 - 1, MO5 - 2, AND MO6 - 1, SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS).
- W20 - 53A SHALL BE 48" X 48"

* PLACE "RAMP CLOSED BEGINNING" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES

ON RAMP LANE CLOSURE

STATE OF WISCONSIN
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FHWA

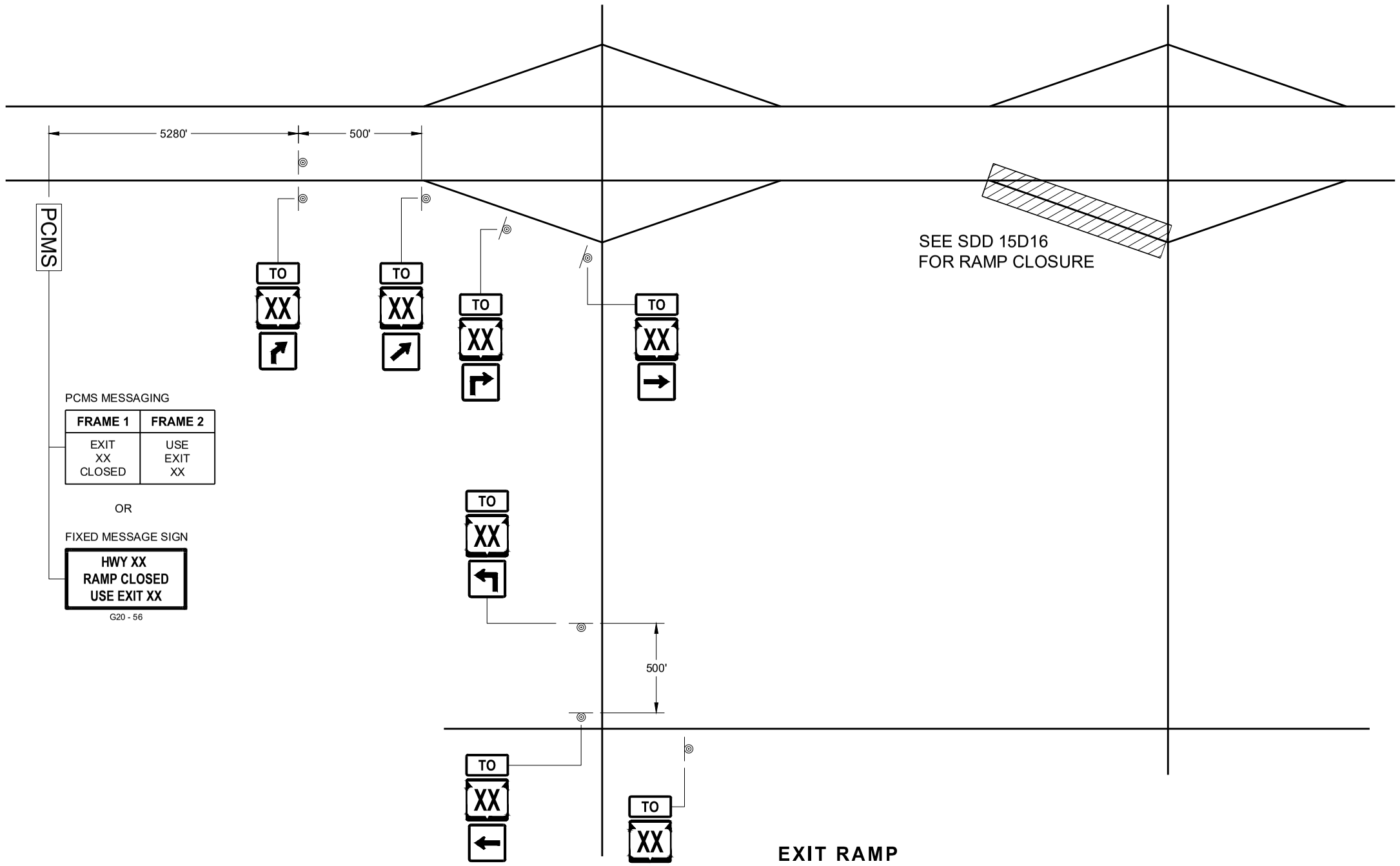
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SDD 15C02 - 07d

6

SDD 15C02 - 07d

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL TO SIGN LAYOUT AND SPACING. SEE PROJECT TO SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.



PCMS MESSAGING

FRAME 1	FRAME 2
EXIT XX CLOSED	USE EXIT XX

OR

FIXED MESSAGE SIGN

HWY XX
RAMP CLOSED
USE EXIT XX

G20 - 56

EXIT RAMP CLOSURE

LEGEND

SIGN ON PERMANENT SUPPORT

PCMS PORTABLE CHANGEABLE MESSAGE SIGN

TO MO4 - 5

XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A

M05 - 1 OR M05 - 2 OR M06 - 1 OR M06 - 2

GENERAL NOTES

SEE SDD 15D16 "TRAFFIC CONTROL, EXIT RAMP CLOSURE" DETAIL FOR TRAFFIC CONTROL AT EXIT RAMP CLOSURE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE ANY ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE TO ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT TO SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND TO SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL " IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT SHALL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

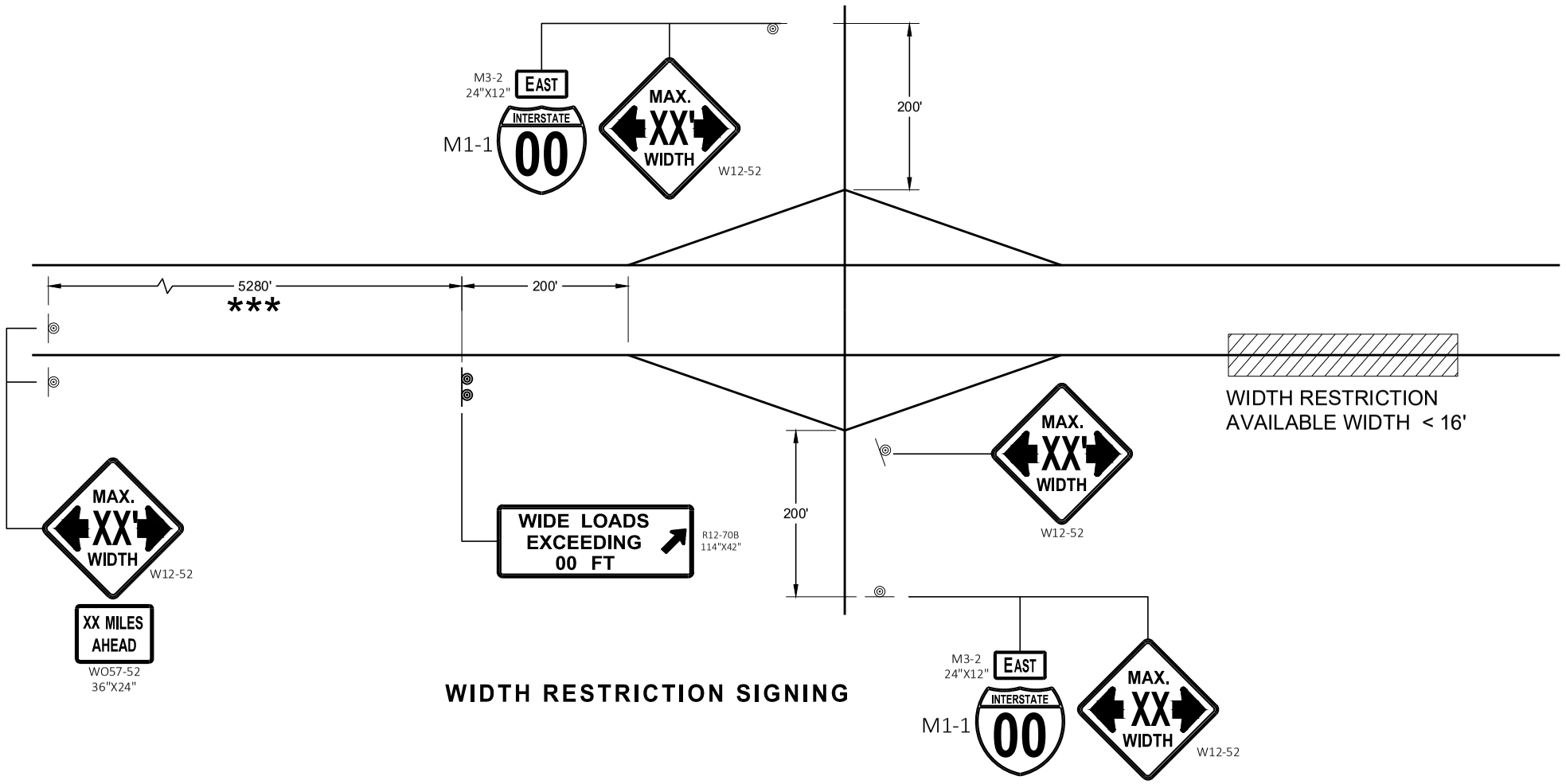
SIGN SIZES SHALL BE AS FOLLOW:

MO4 - 5 SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
M1 - 4, M1 - 5A, AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS).
MO5 - 1, MO5 - 2, AND MO6 - 1, SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS).

OFF RAMP LANE CLOSURE

STATE OF WISCONSIN
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WIDTH RESTRICTION SIGNING

LEGEND

SIGN ON PERMANENT SUPPORT

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL " IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WIDTH ON SIGN TO BE APPROXIMATELY ONE FOOT LESS THAN AVAILABLE WIDTH.

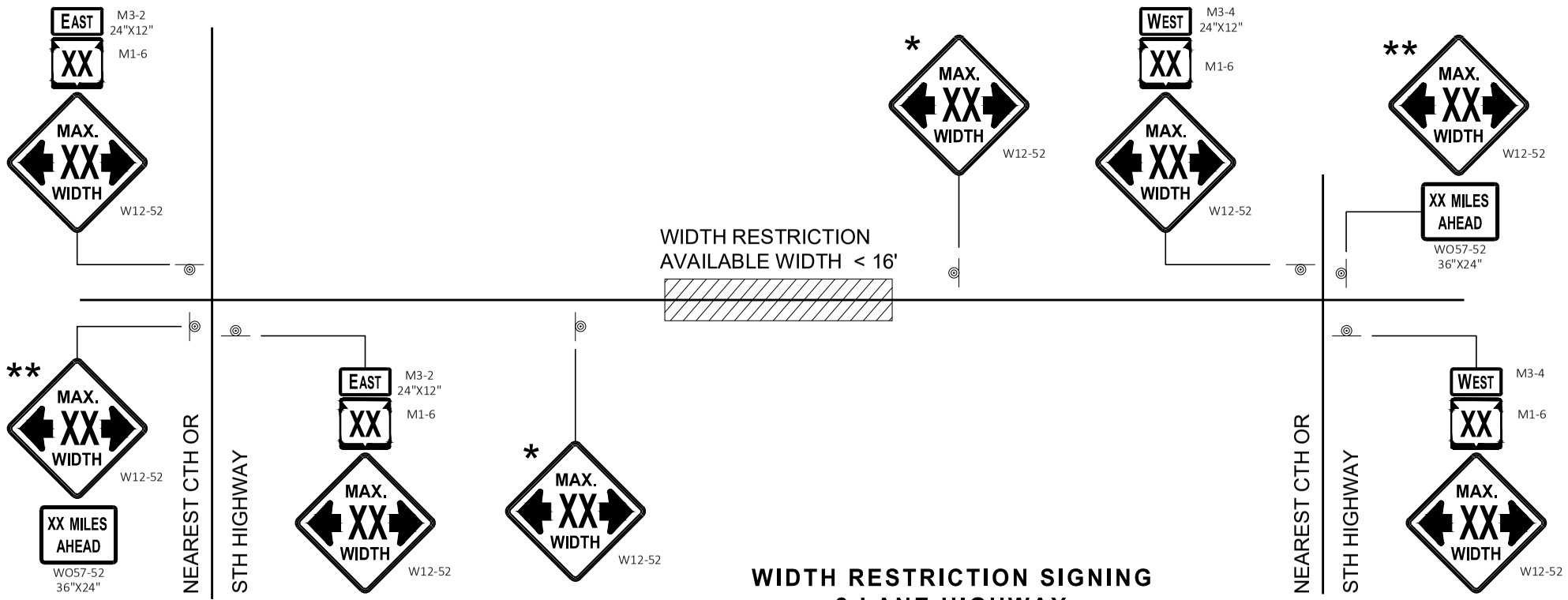
* PLACE 500 FEET BEFORE THE W20 - 1A AND 500 FEET BEFORE ADDITIONAL SIGNS FOR ROADWAYS WITH A PRE - CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200 FOOT TYPICAL SPACING.

** SIGN SHALL BE VISIBLE FROM ROADWAY.

*** ADDITIONAL SIGNS NEEDED IF THERE IS AN ON RAMP BETWEEN SIGNS.



WIDTH ON SIGN TO BE APPROX. 1 - FOOT LESS THAN AVAILABLE WIDTH



WIDTH RESTRICTION SIGNING
2 LANE HIGHWAY

ADVANCED WIDTH RESTRICTION SIGNING

STATE OF WISCONSIN
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November 2018
DATE

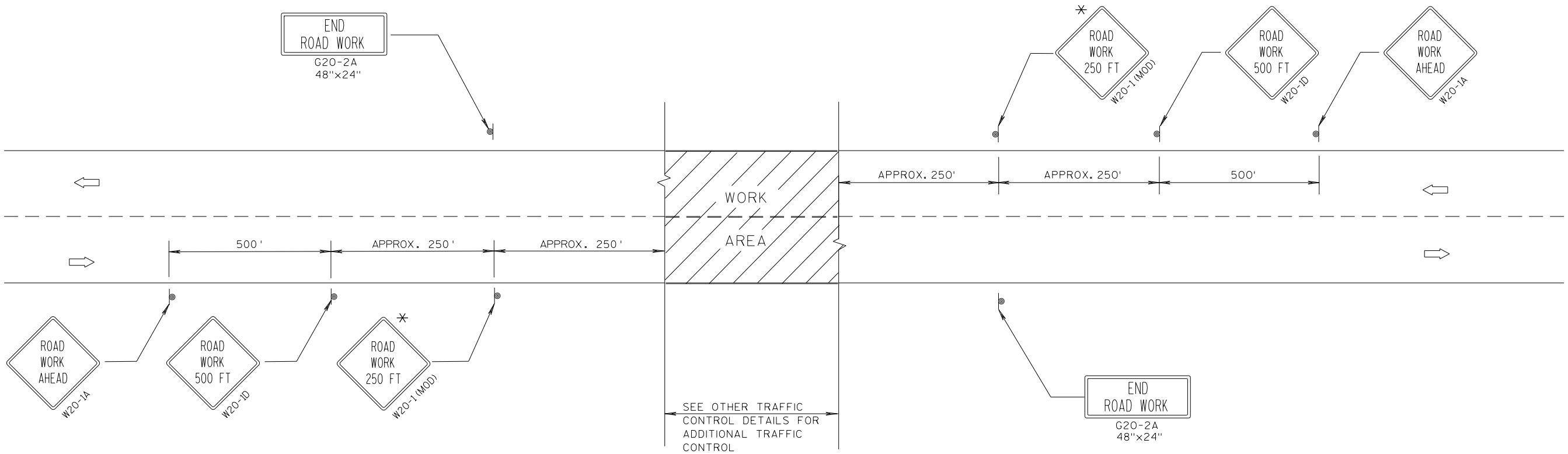
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WORK ZONE ENGINEE

FHWA

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SDD 15C02 - 07f

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

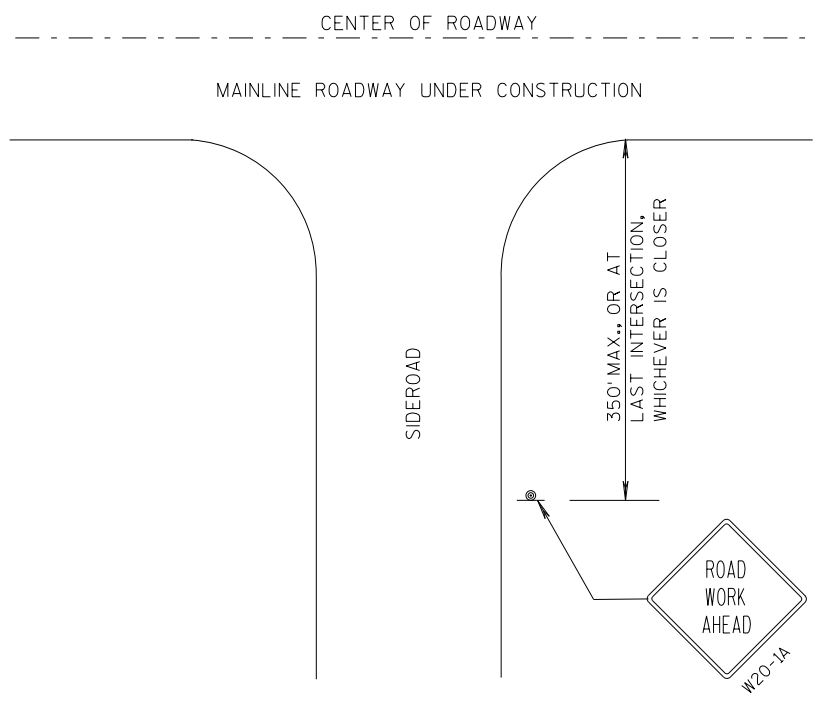
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

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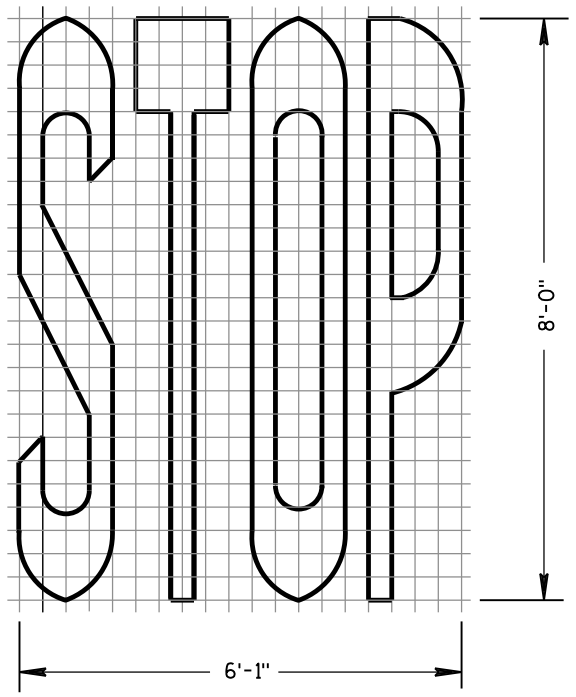
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/S/ Andrew Heldtke — WORK ZONE ENGI
FHWA

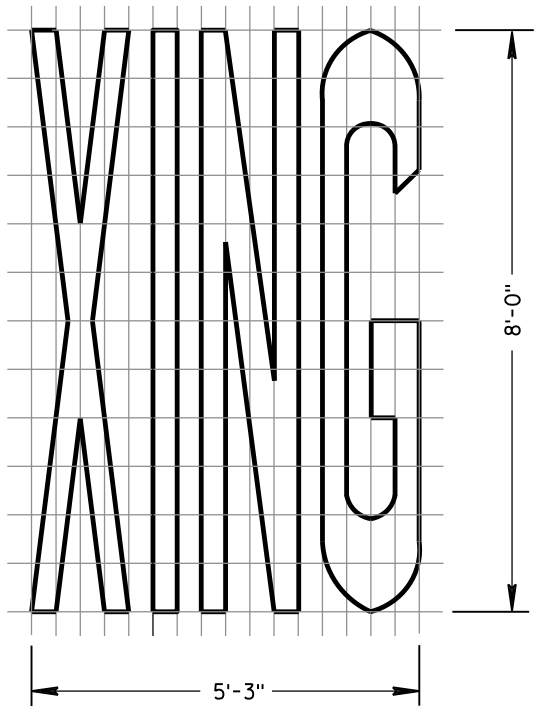
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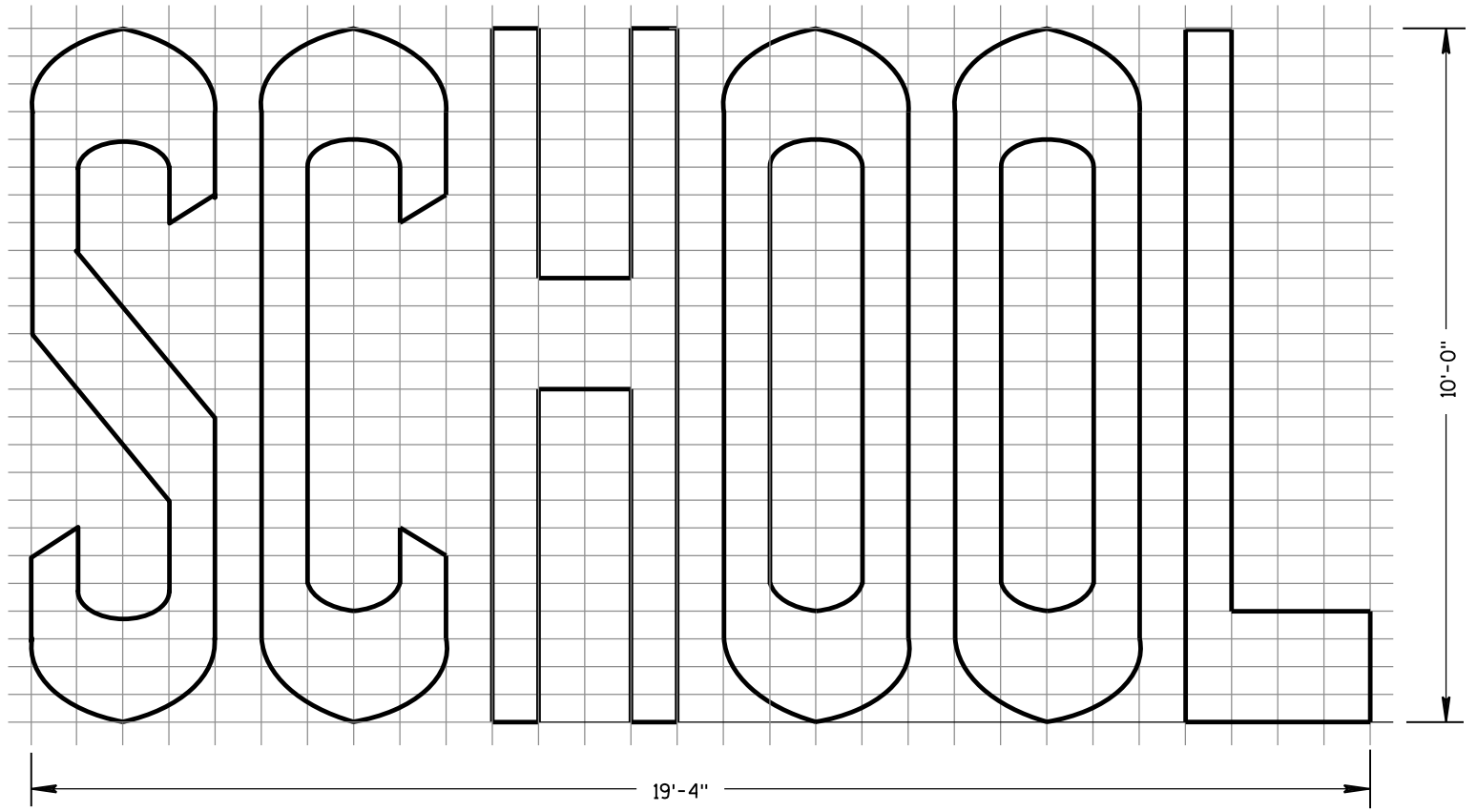
S.D.D. 15 C 5-5

GENERAL NOTES

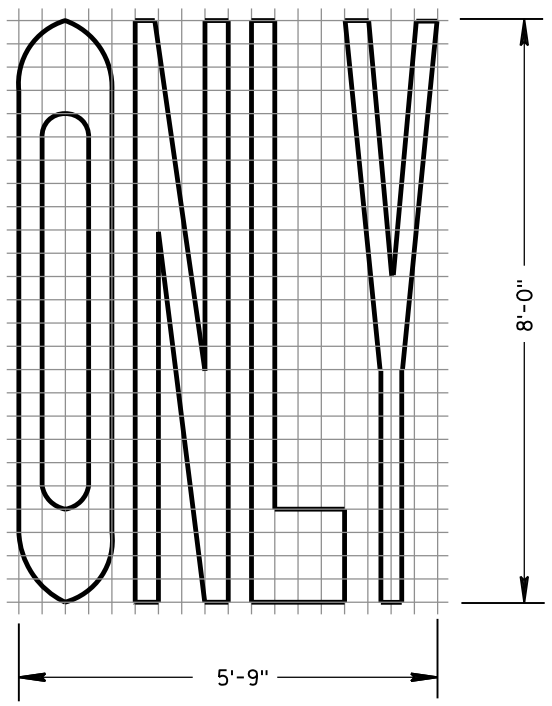
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

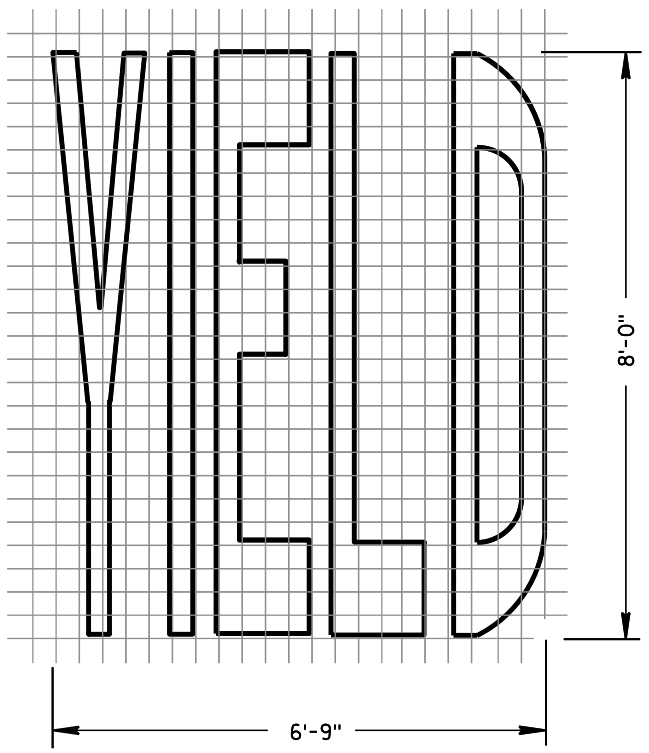


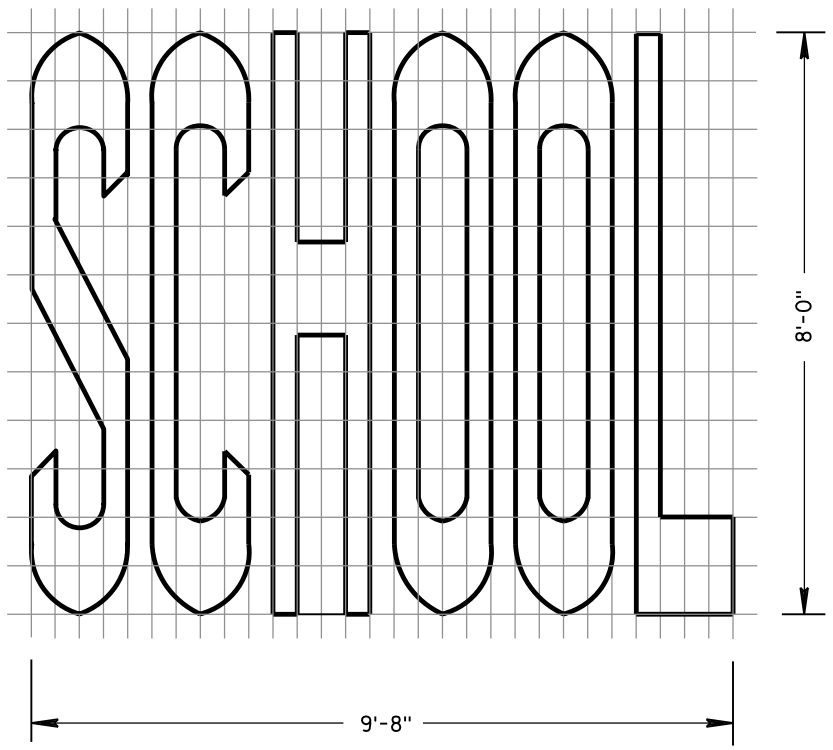




TWO-LANE







SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

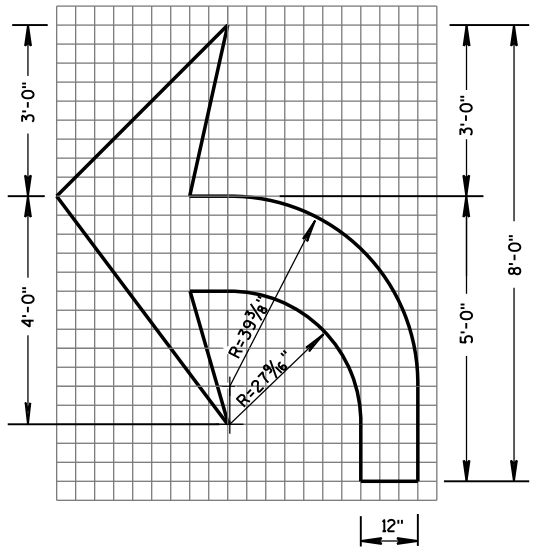
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/S/ Matthew R. Rauch — STATE SIGNING AND MARK
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FHWA

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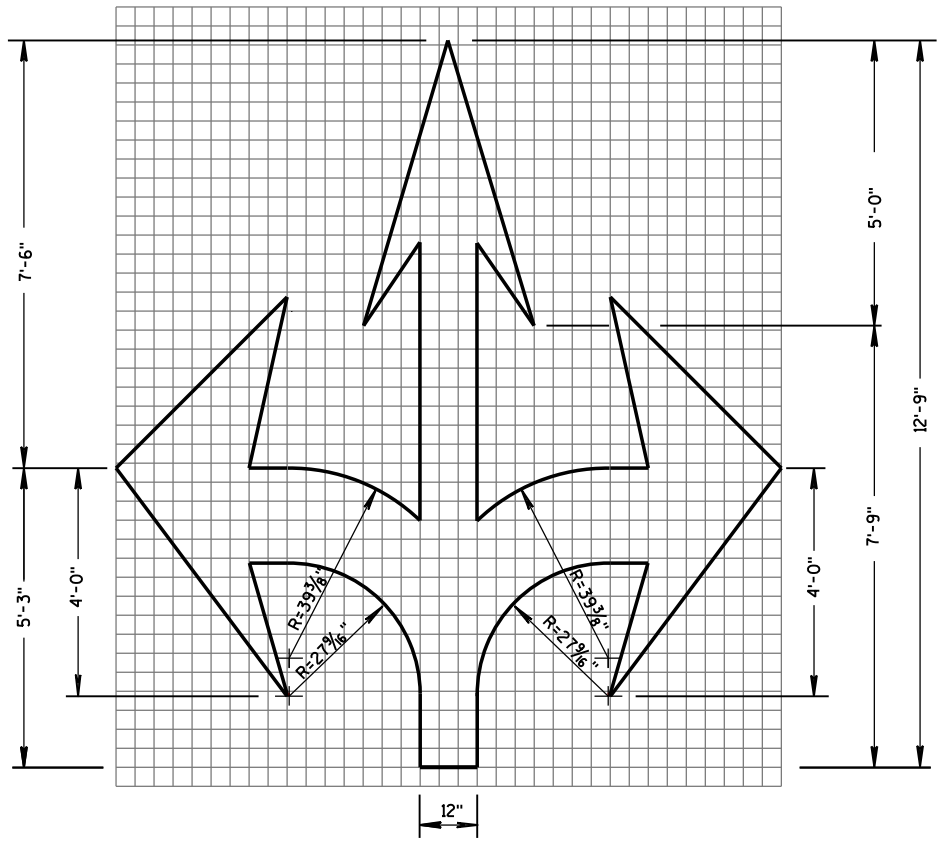
S.D.D. 15 C 7-14b

GENERAL NOTES

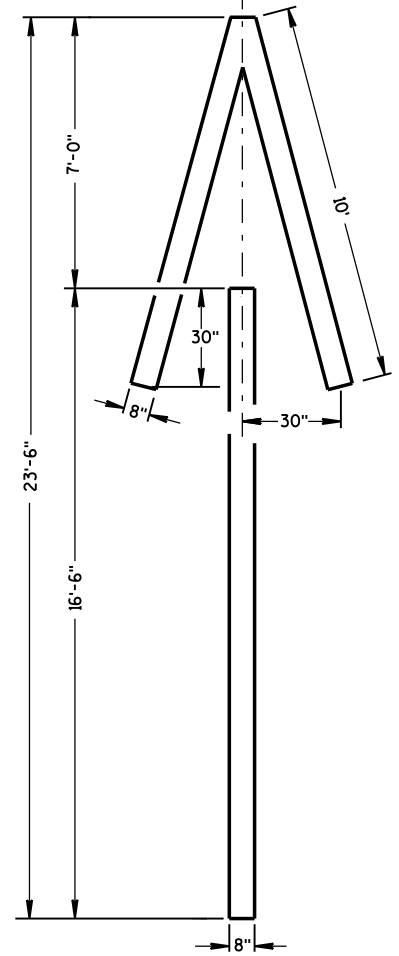
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



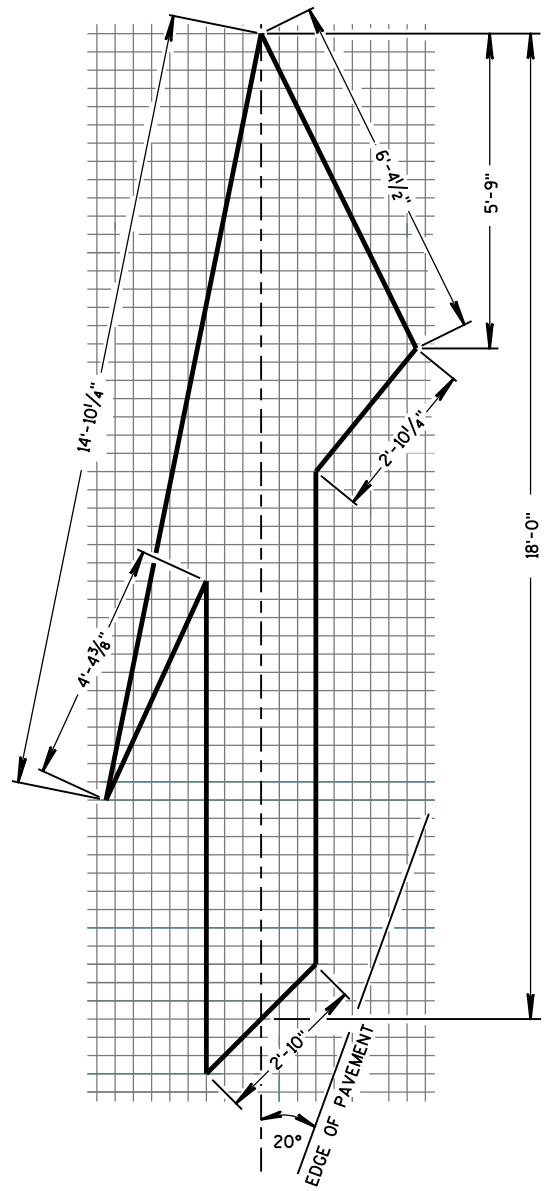
TYPE 2



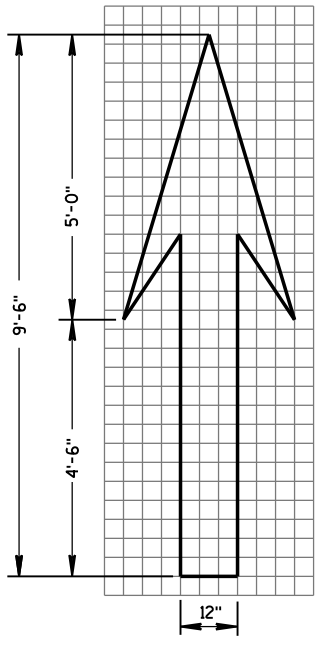
TYPE 6



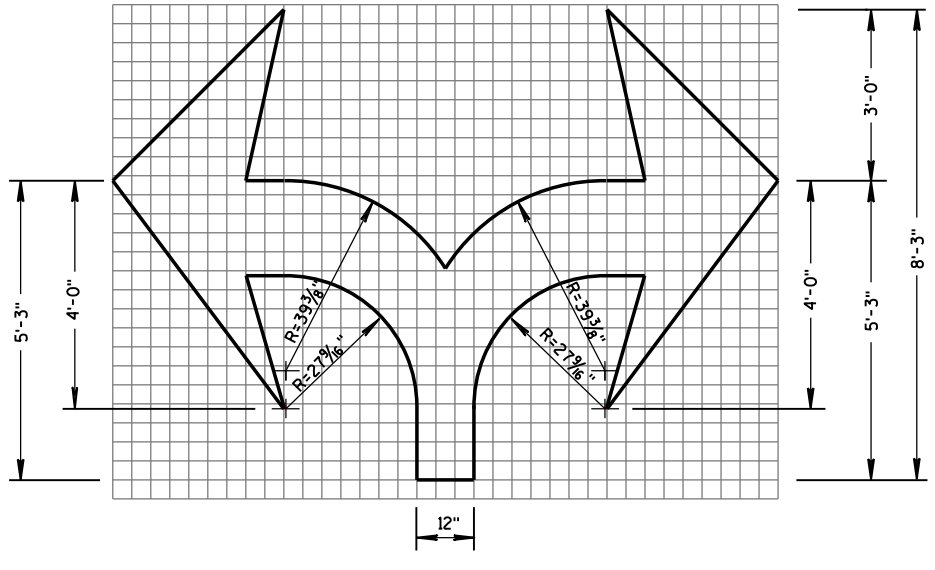
TYPE 4



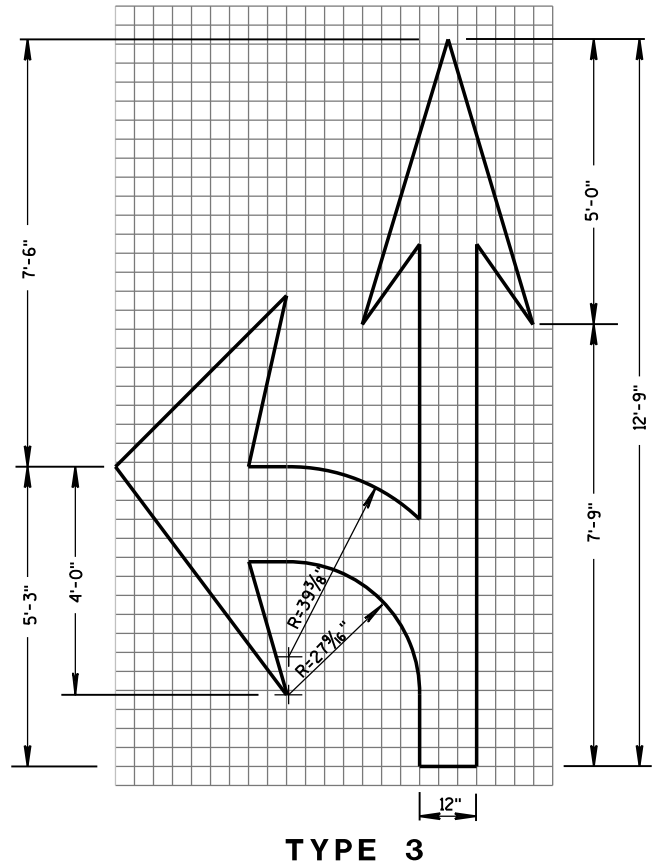
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

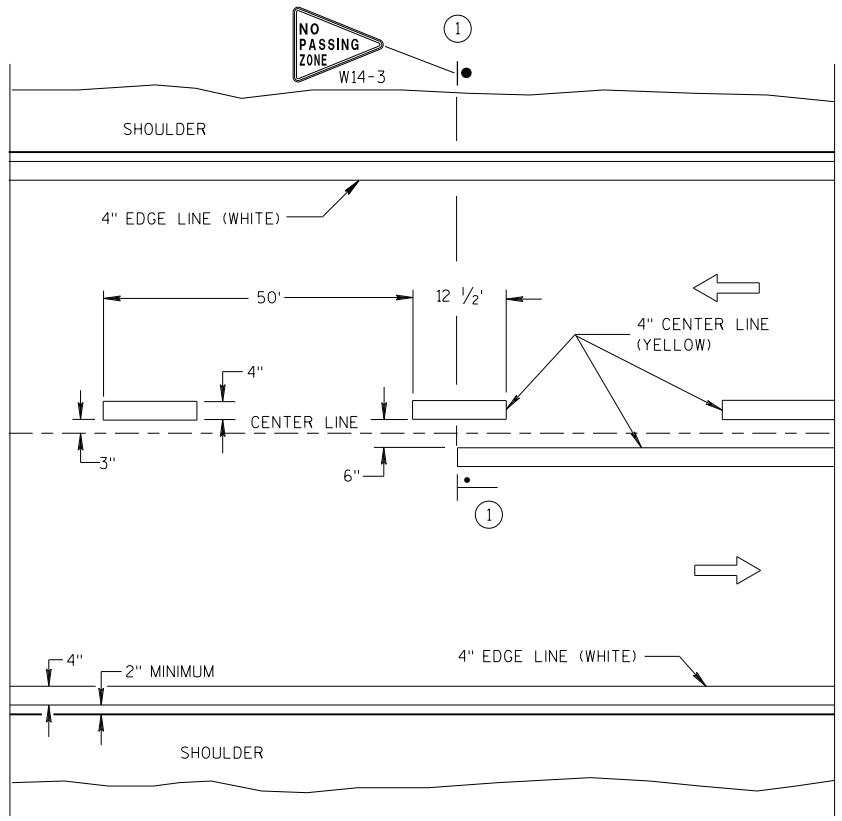
APPROVED
June 2017 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MAR[KING] ENGINEER
FHWA

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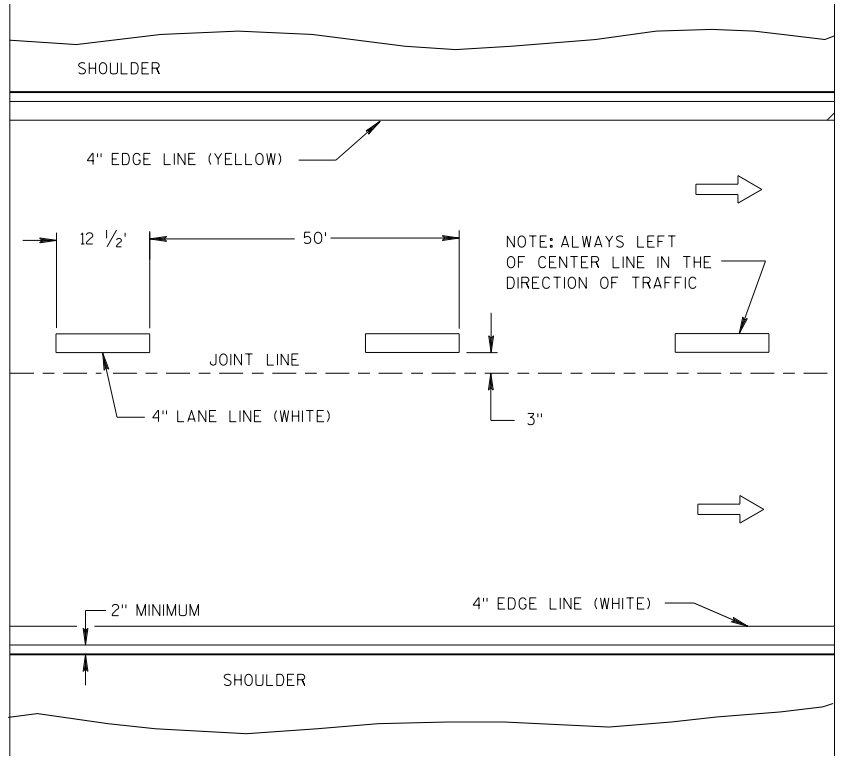
S.D.D. 15 C 7-14c

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.

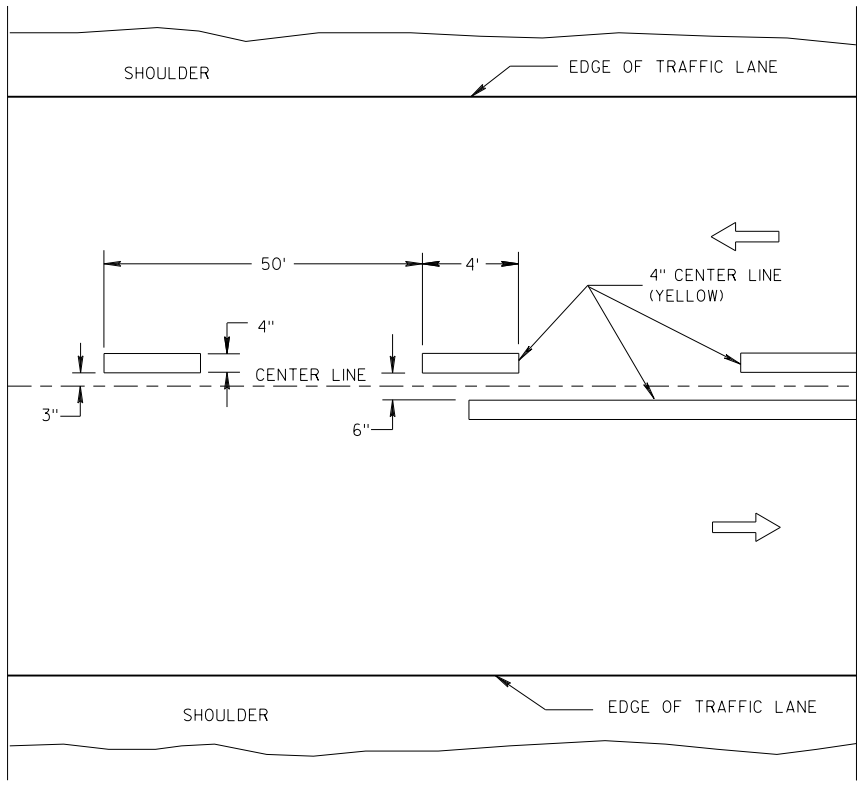
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

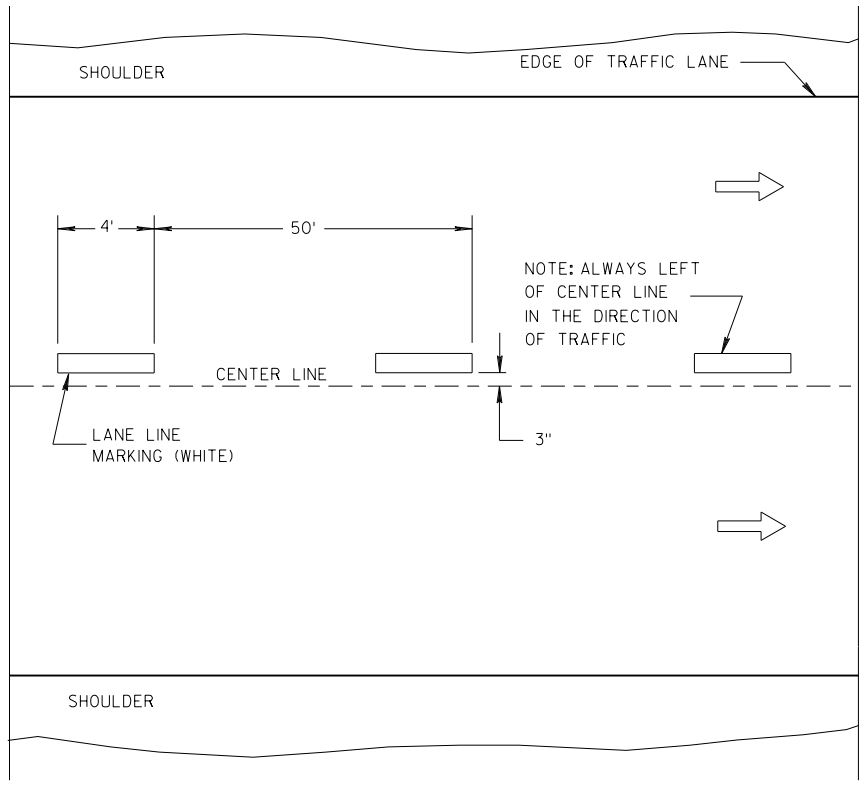
LEGEND

"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

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S.D.D. 15 C 8-19a

6

S.D.D. 15 C 8-19a

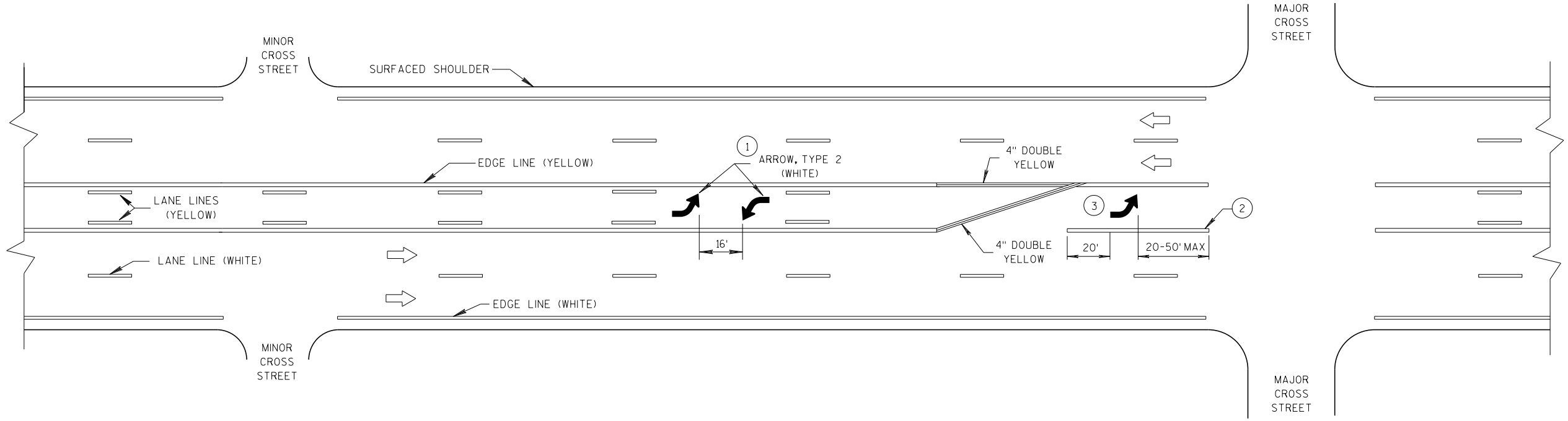
GENERAL NOTES

(1) A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

(2) 8" WHITE

(3) TURN BAY LENGTH OF LESS THAN 48'DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT

DIRECTION OF TRAFFIC



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES)

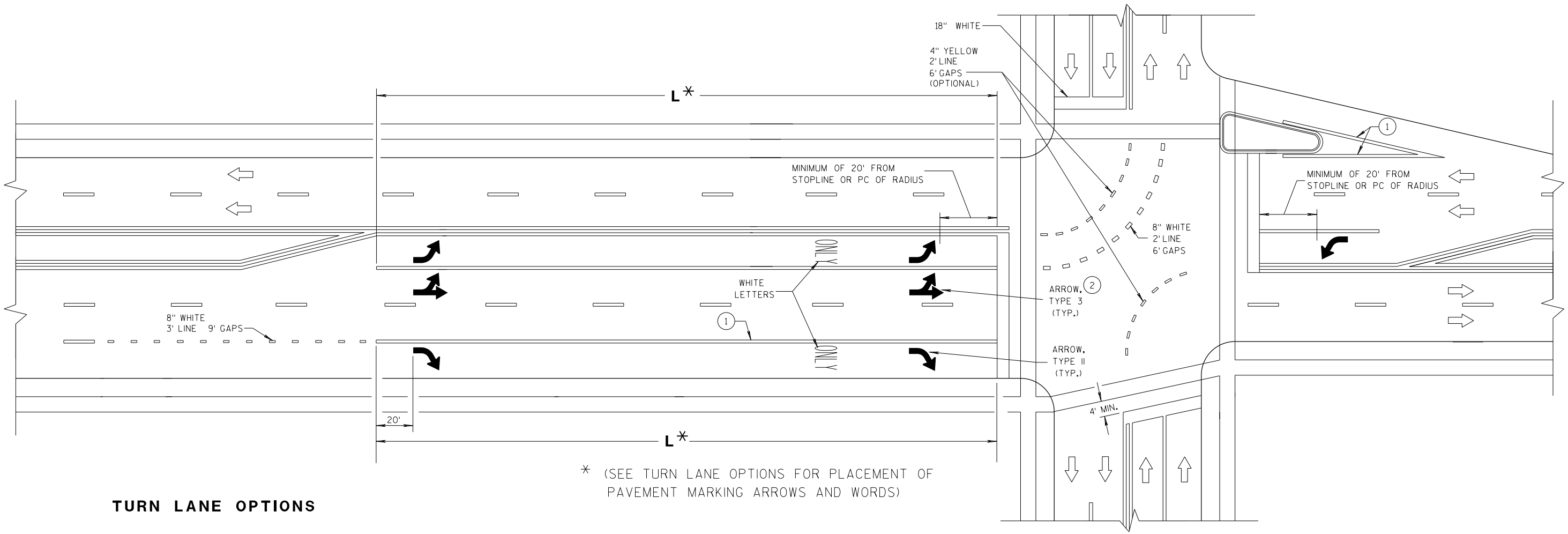
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 15 C 8-19b

6

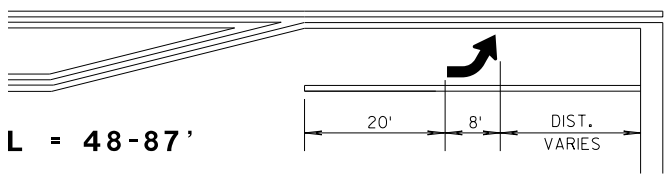
S.D.D. 15 C 8-19b



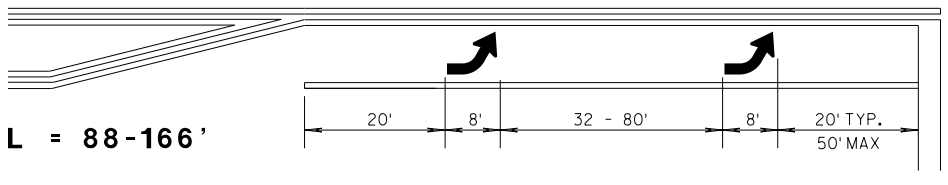
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

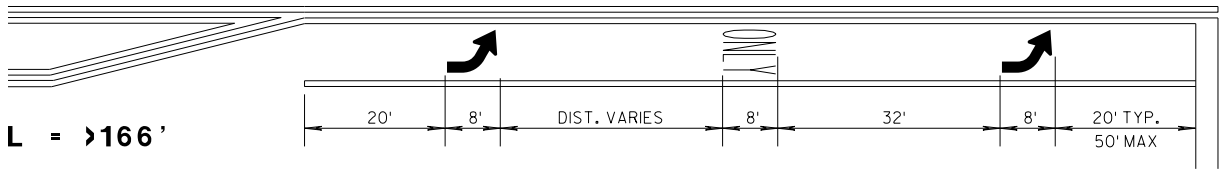
LENGTH OF TURN BAY (**L**) OF 0-47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48-87'



L = 88-166'



L = >166'

GENERAL NOTES

(1) 8" WHITE

(2) QUANTITY AND LOCATION OF TYPE 3 ARROW ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION, THE ARROWS AND ONLY MARKING ARE ELIMINATED.

⇨ DIRECTION OF TRAFFIC

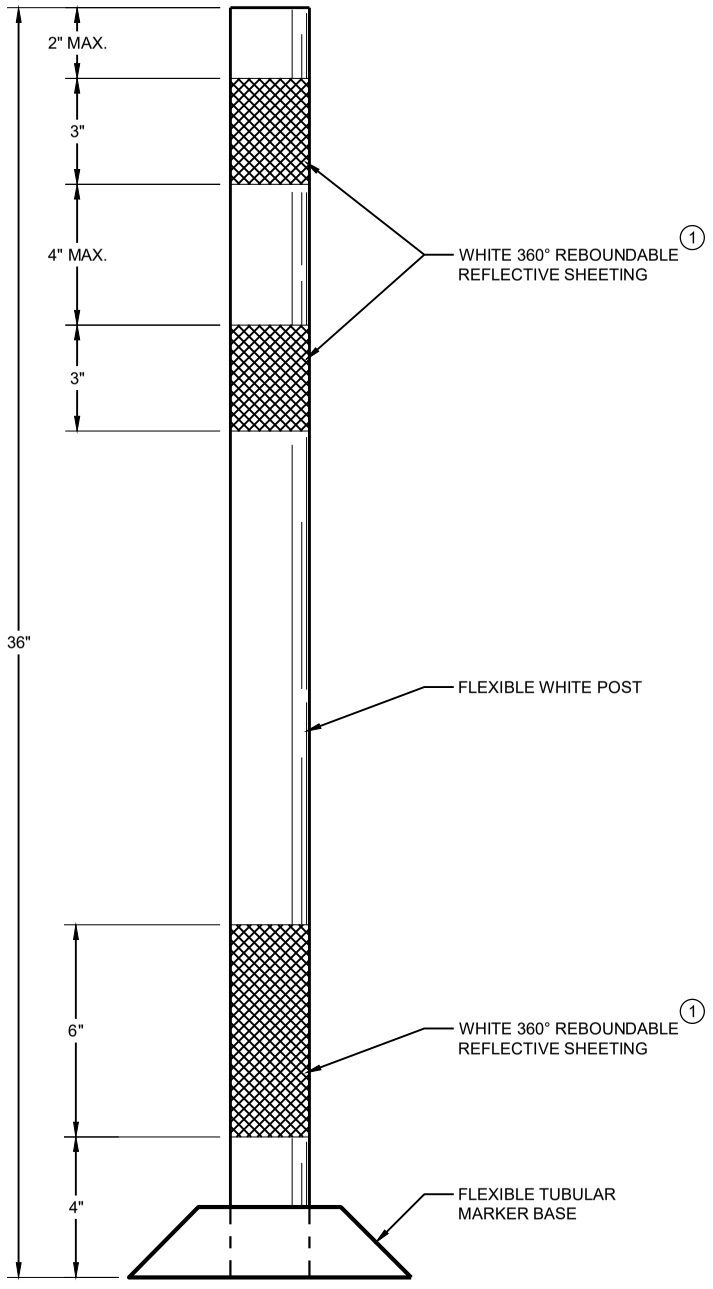
L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

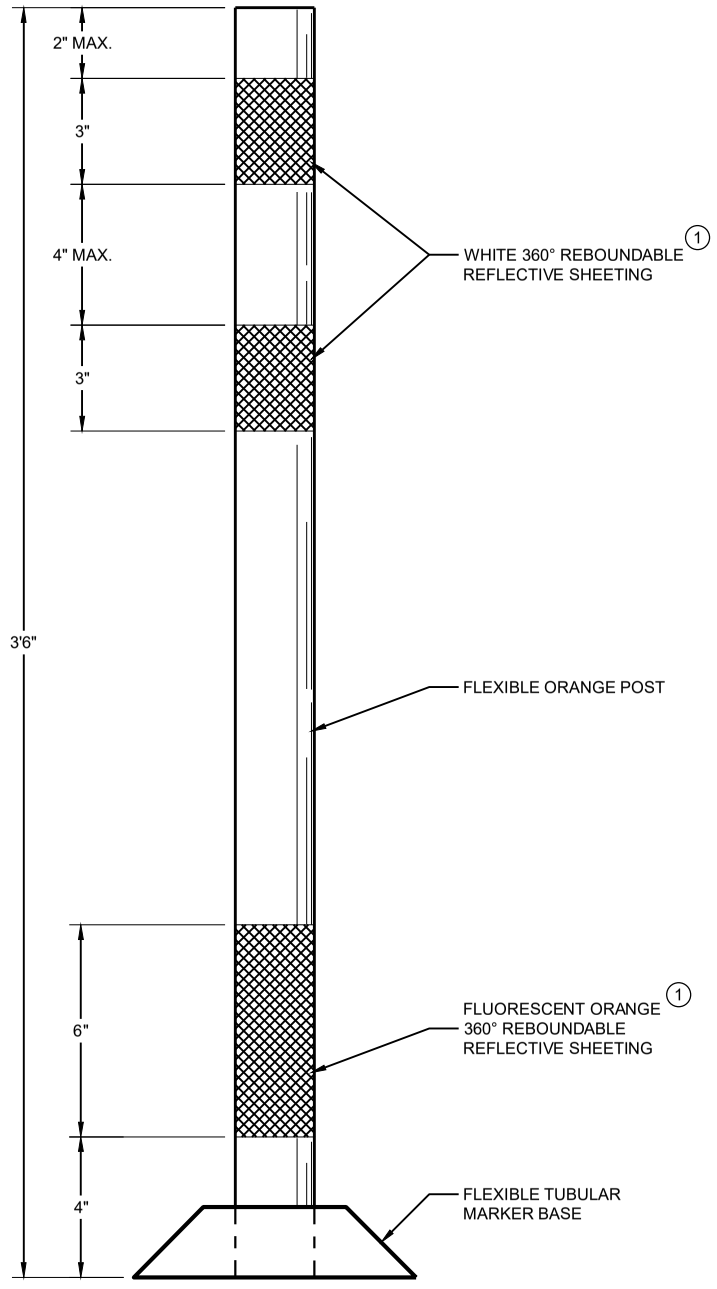
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORT

6

S.D.D. 15 C 8-19c



FLEXIBLE TUBULAR MARKER POST PERMANENT CROSSOVER



FLEXIBLE TUBULAR MARKER POST WORK ZONE

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

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SDD 15C11 - 07a

CHANNELIZING DEVICES
FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

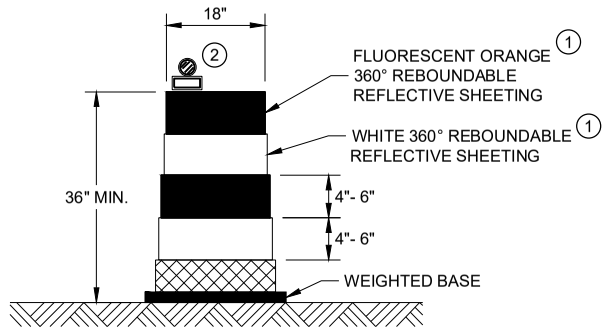
APPROVED
June 2017 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

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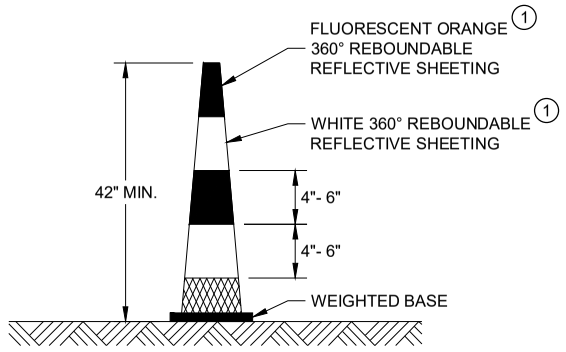
SDD 15C11 - 07a

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.

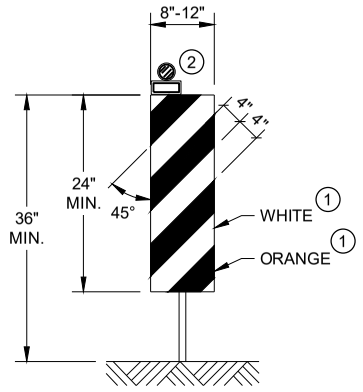


DRUM



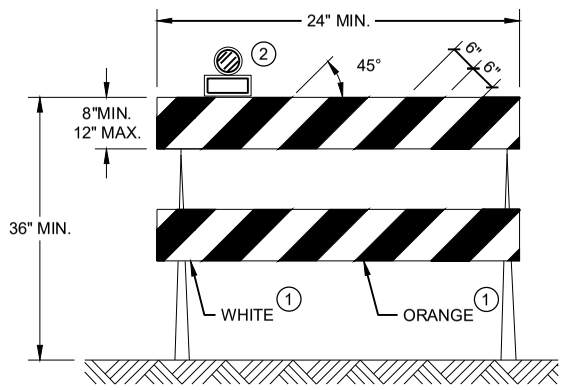
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



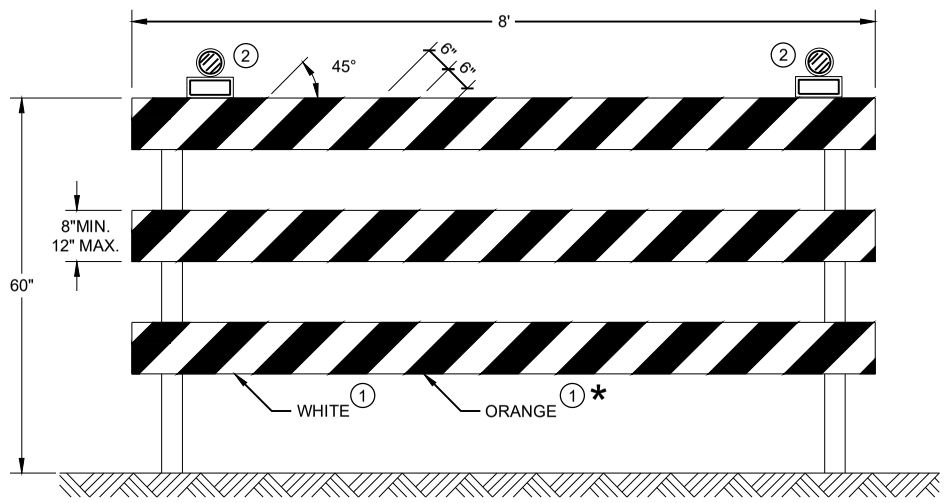
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III 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 ENGINEE

FHWA

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SDD 15C11 - 07b

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SDD 15C11 - 07b

LEGEND

- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TEMPORARY PORTABLE RUMBLE STRIP ARRAY
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

(1) FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

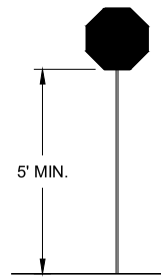
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.



STOP/SLOW PADDLE ON SUPPORT STAFF

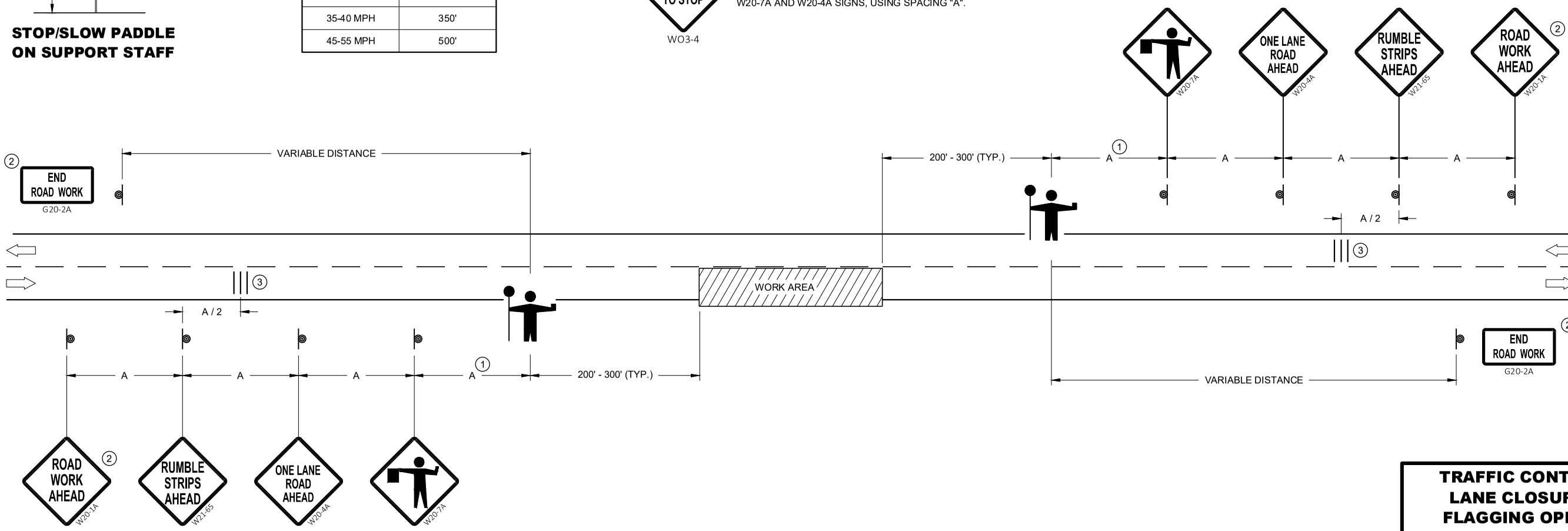
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



WO3-4

USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

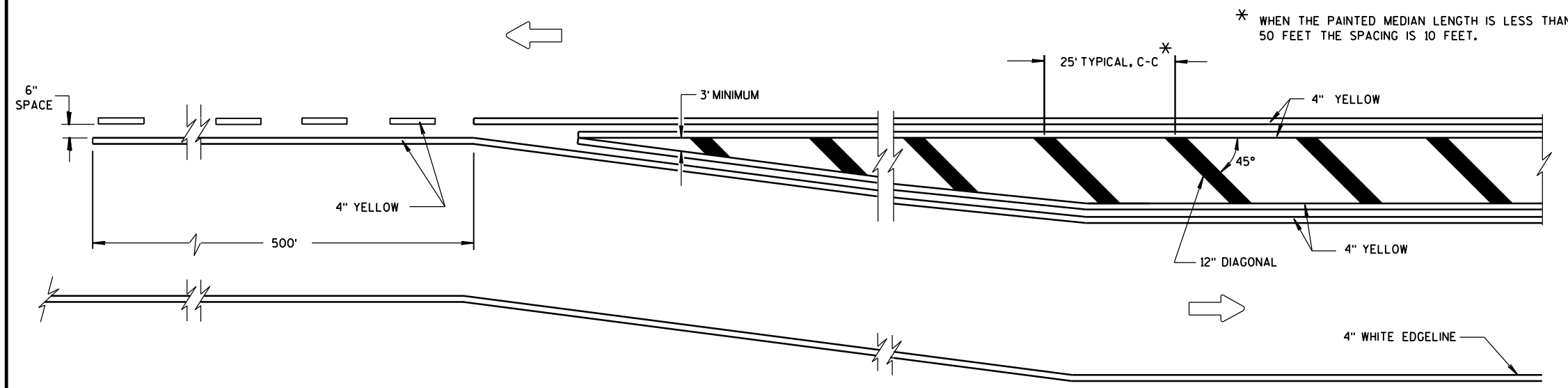
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

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SDD 15C12 - 07

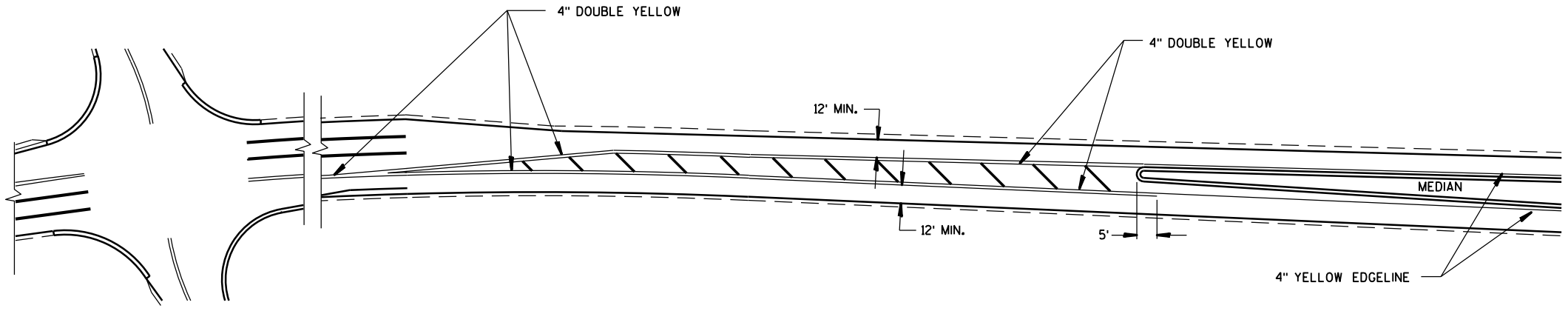


MEDIAN ISLAND DETAIL

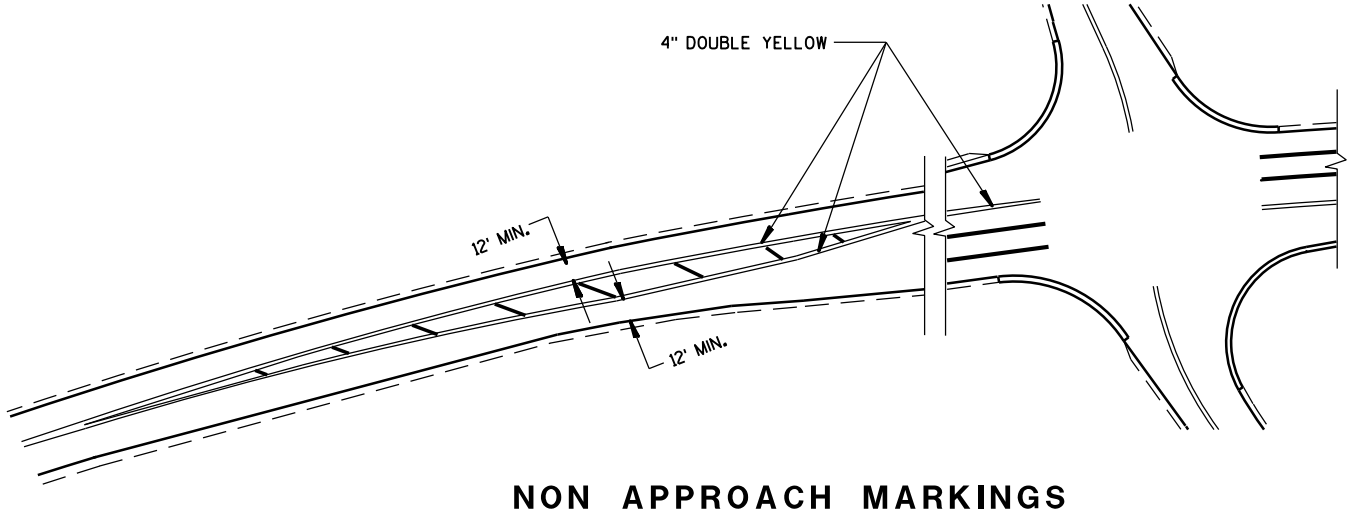
GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.

DIRECTION OF TRAVEL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

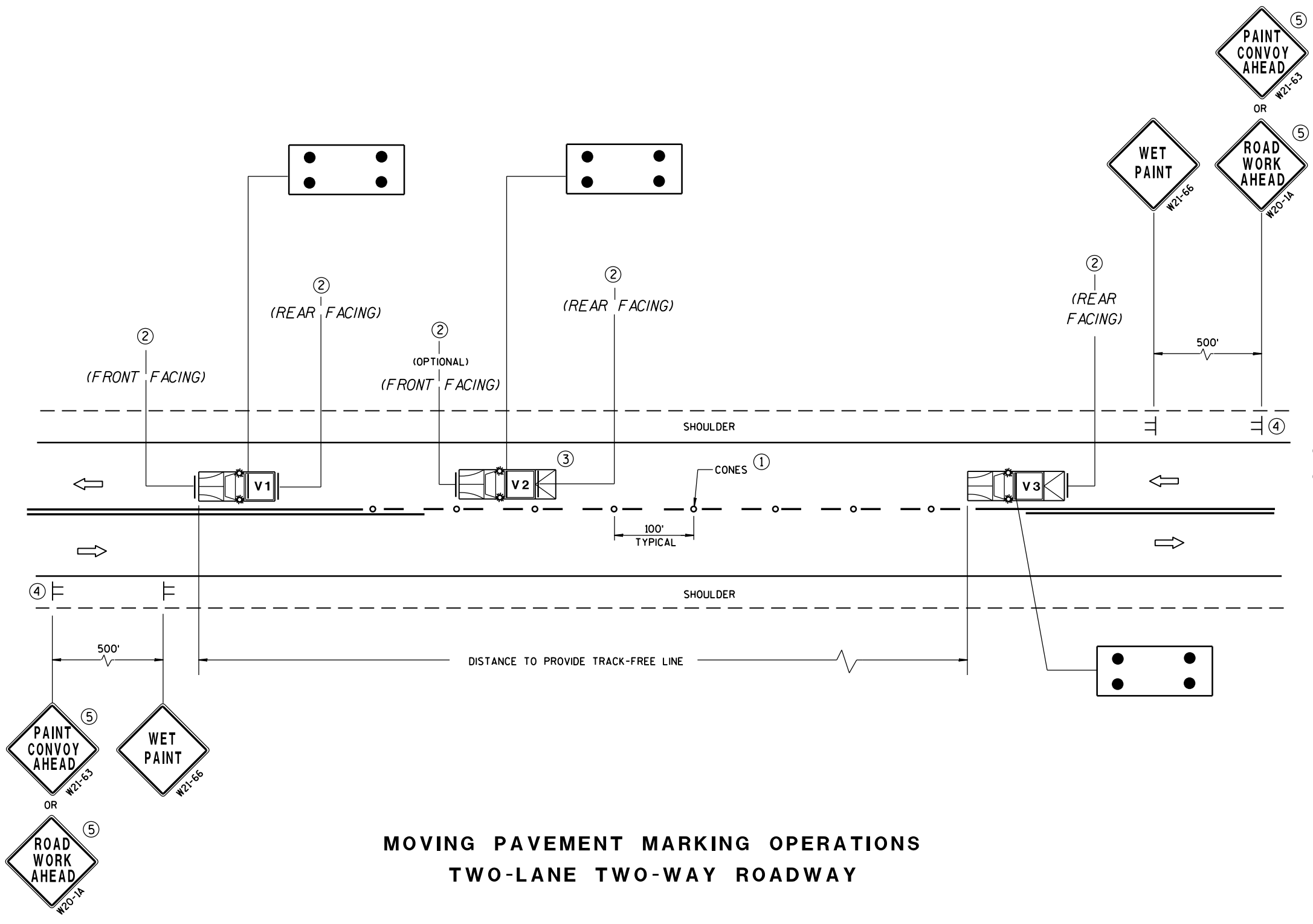
MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE FHWA	/S/ Matthew Rauch STATE SIGNING AND MARK 399 EER

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S.D.D. 15 C 18-4

6

S.D.D. 15 C 18-4



MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

(4) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(5) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1	LEAD VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE WITH TMA
TMA	TRUCK-MOUNTED ATTENUATOR
	SIGN ON TEMPORARY SUPPORT
	DIRECTION OF TRAFFIC
	CONES
	FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING OPERATION
TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

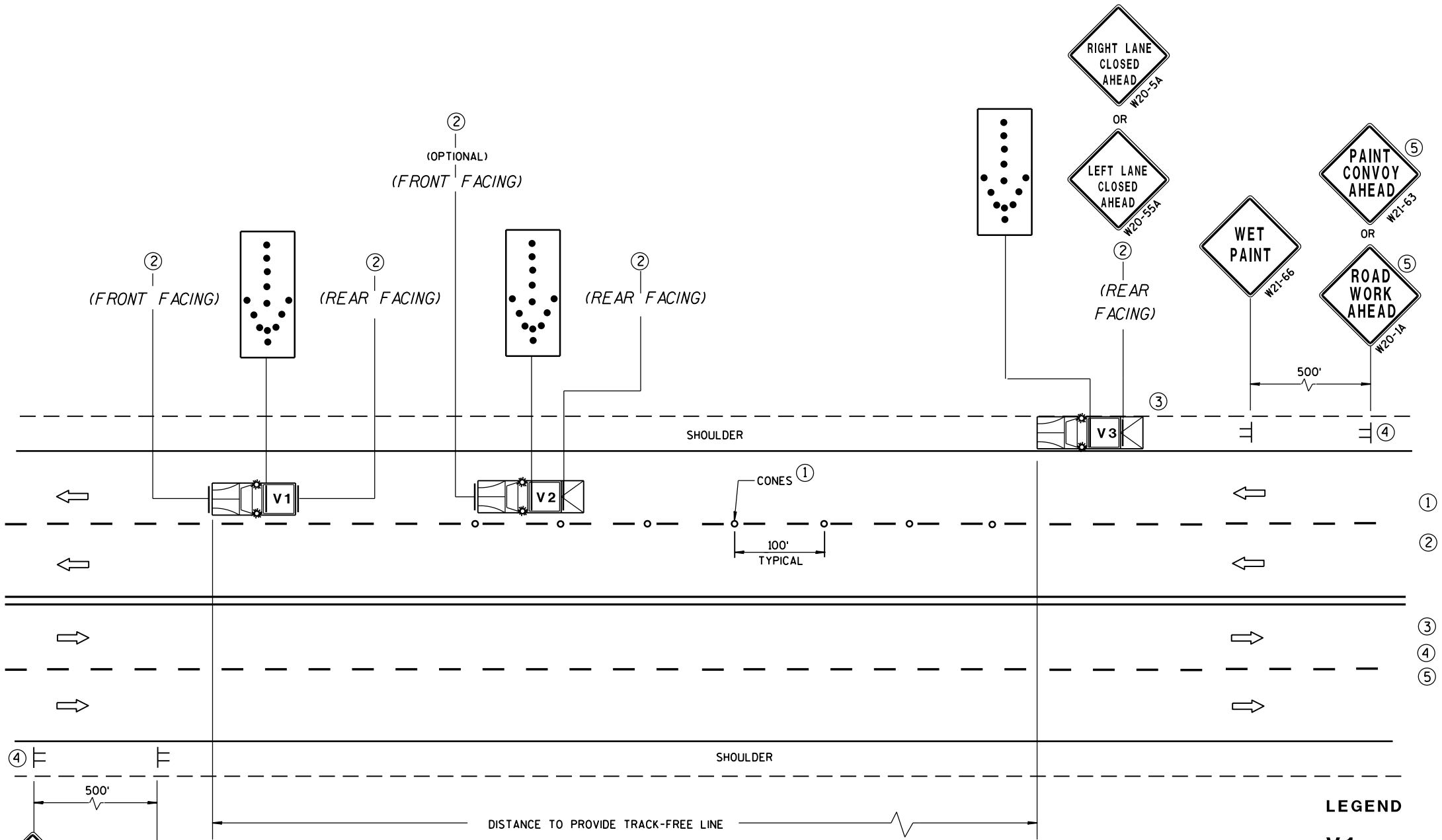
APPROVED
Sept., 2017 — DATE
/S/ Andrew Heldtke — WORK ZONE ENGR
FHWA

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S.D.D. 15 C 19-5a

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S.D.D. 15 C 19-5a



MOVING PAVEMENT MARKING OPERATIONS
MULTI-LANE UNDIVIDED ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REARMOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE OR LANELINE MARKING FOR MULTILANE UNDIVIDED ROADWAYS.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

(4) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(5) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1	LEAD VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE WITH TMA
TMA	TRUCK-MOUNTED ATTENUATOR
	SIGN ON TEMPORARY SUPPORT
	DIRECTION OF TRAFFIC
	CONES
	FLASHING ARROW PANEL (MERGE)

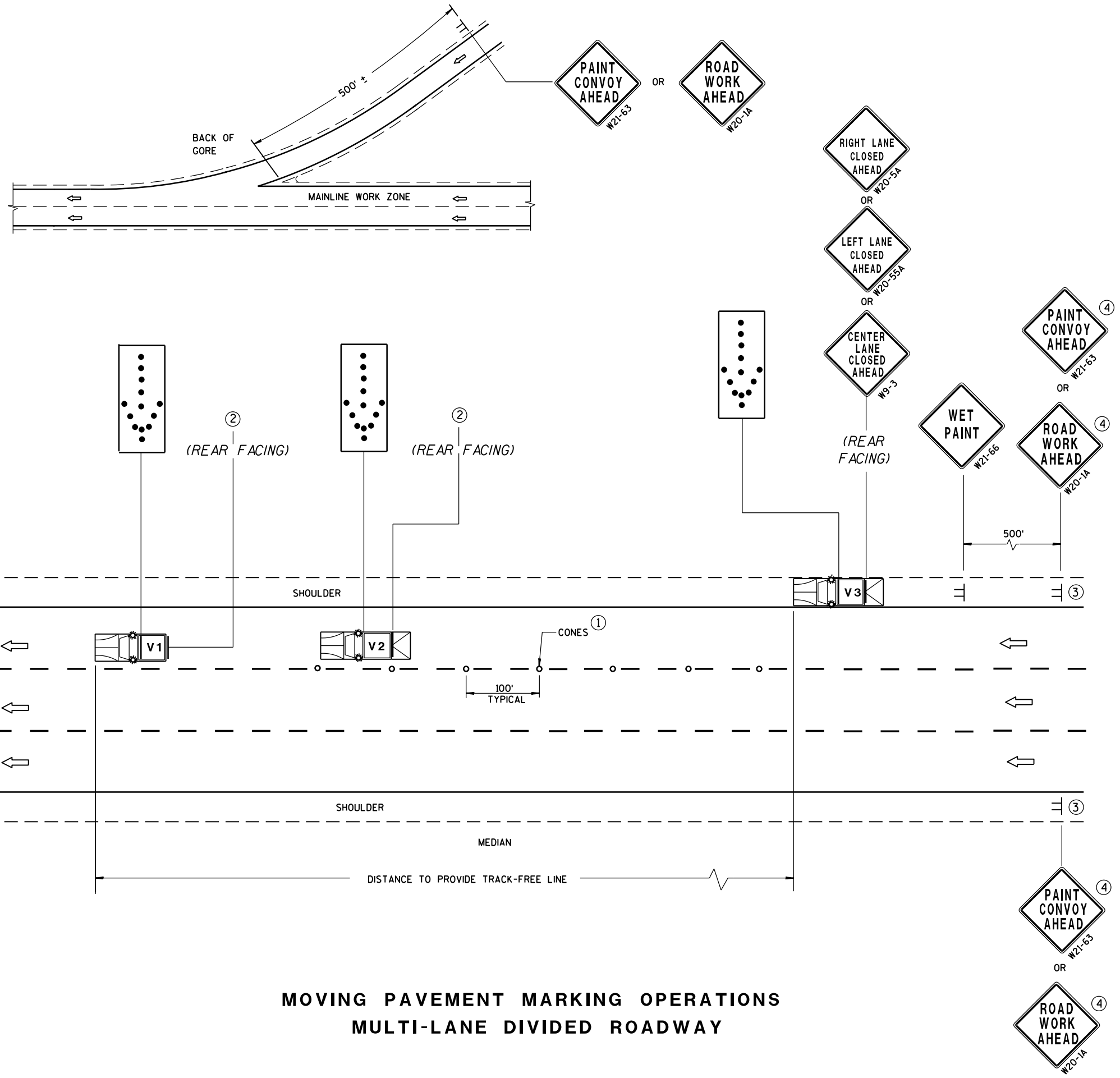
MOVING PAVEMENT MARKING OPERATION
MULTI-LANE UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2017 — DATE
/S/ Andrew Heldtke — WORK ZONE ENGIN
FHWA

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S.D.D. 15 C 19-5b



MOVING PAVEMENT MARKING OPERATIONS
MULTI-LANE DIVIDED ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REARMOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH. USE DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

THIS DRAWING SHALL BE USED FOR EDGELINE OR LANELINE MARKING FOR MULTILANE DIVIDED ROADWAYS.

① CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

② USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

③ SIGNS SHALL BE REPEATED AFTER EVERY ON RAMP OR EVERY THREE MILES.

④ IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1	LEAD VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE WITH TMA
TMA	TRUCK-MOUNTED ATTENUATOR
	SIGN ON TEMPORARY SUPPORT
	DIRECTION OF TRAFFIC
	CONES
	FLASHING ARROW PANEL (MERGE)

MOVING PAVEMENT MARKING OPERATION
MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2017 (DATE) /S/ Andrew Heldtke (WORK ZONE ENGR)
FHWA

6

S.D.D. 15 C 19-5c

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S.D.D. 15 C 19-5c

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.

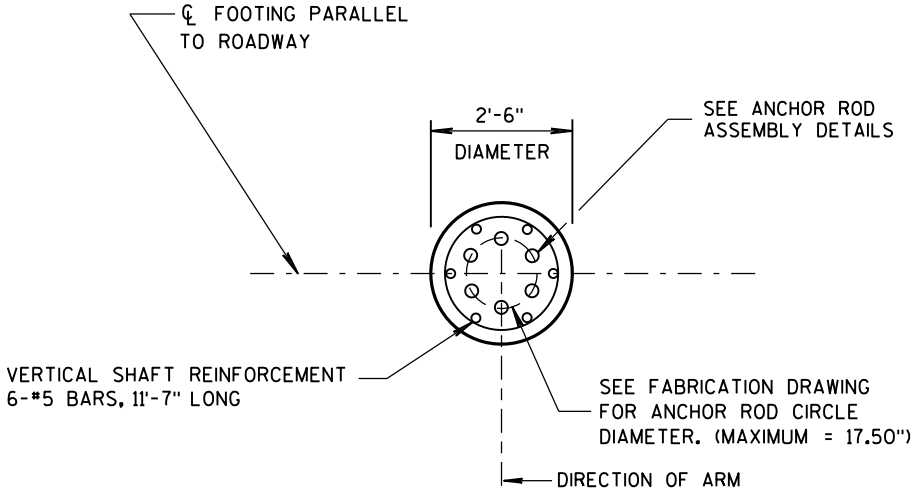
THE REINFORCEMENT AND ANCHOR RODS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

FORM ALL EXPOSED CONCRETE CORNERS WITH ¾" CHAMFER ALL AROUND. TOP OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

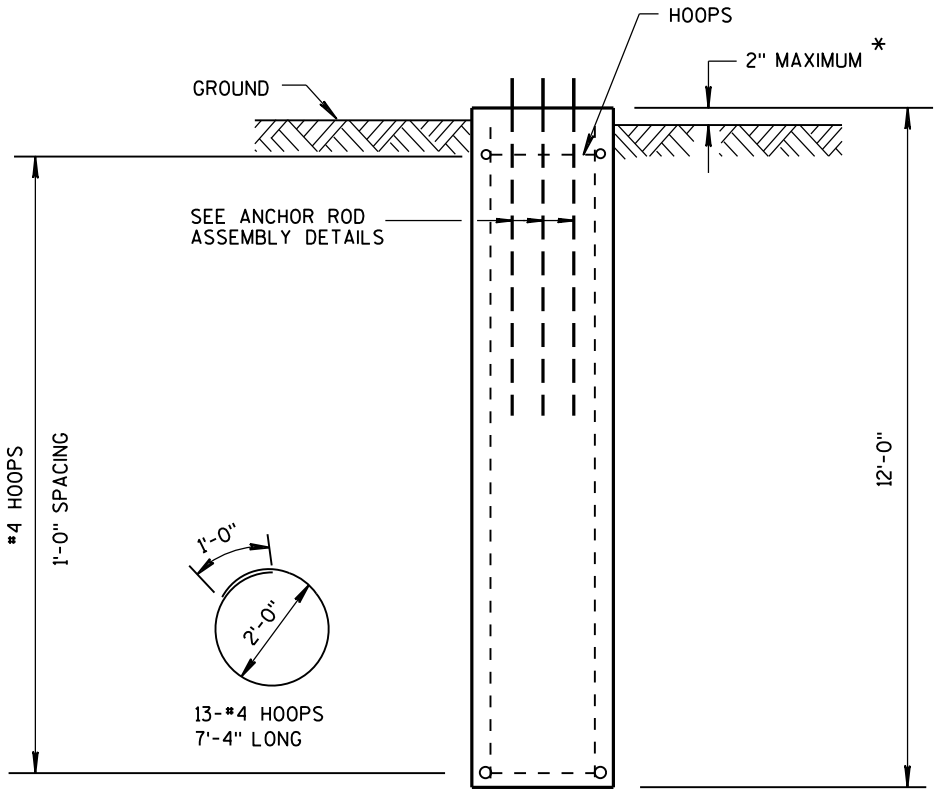
ANY DAMAGE TO THE CONCRETE BASE AND ANCHOR RODS DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

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.

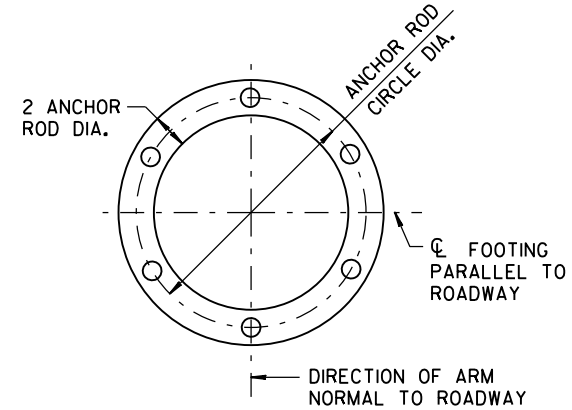
THIS FOOTING HAS BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 20 DEGREES (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 350 PSF (COHESIVE SOILS).



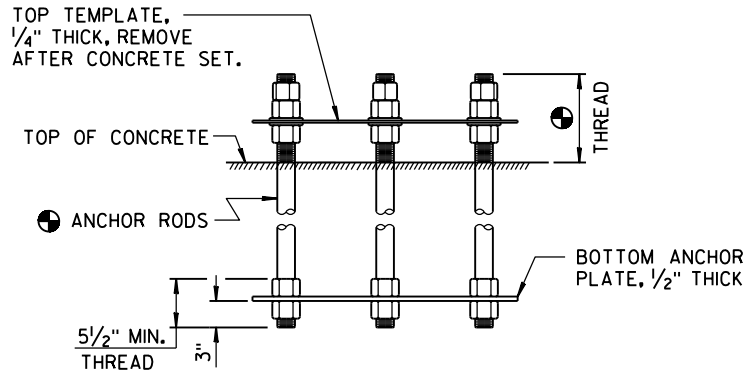
PLAN VIEW



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 - 2.2 C.Y. PER FOOTING
H.S. REINFORCEMENT - 136 LBS. PER FOOTING

30" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Vu Thao — WIND LOADED STRU PROGRAM LEAD
FHWA

6

S.D.D. 15 C 23-4

6

S.D.D. 15 C 23-4

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.

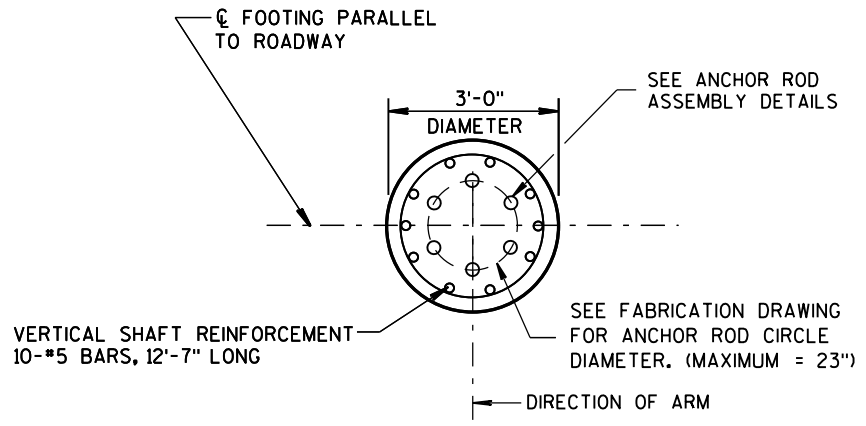
THE REINFORCEMENT AND ANCHOR RODS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

FORM ALL EXPOSED CONCRETE CORNERS WITH ¾" CHAMFER ALL AROUND. TOP OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

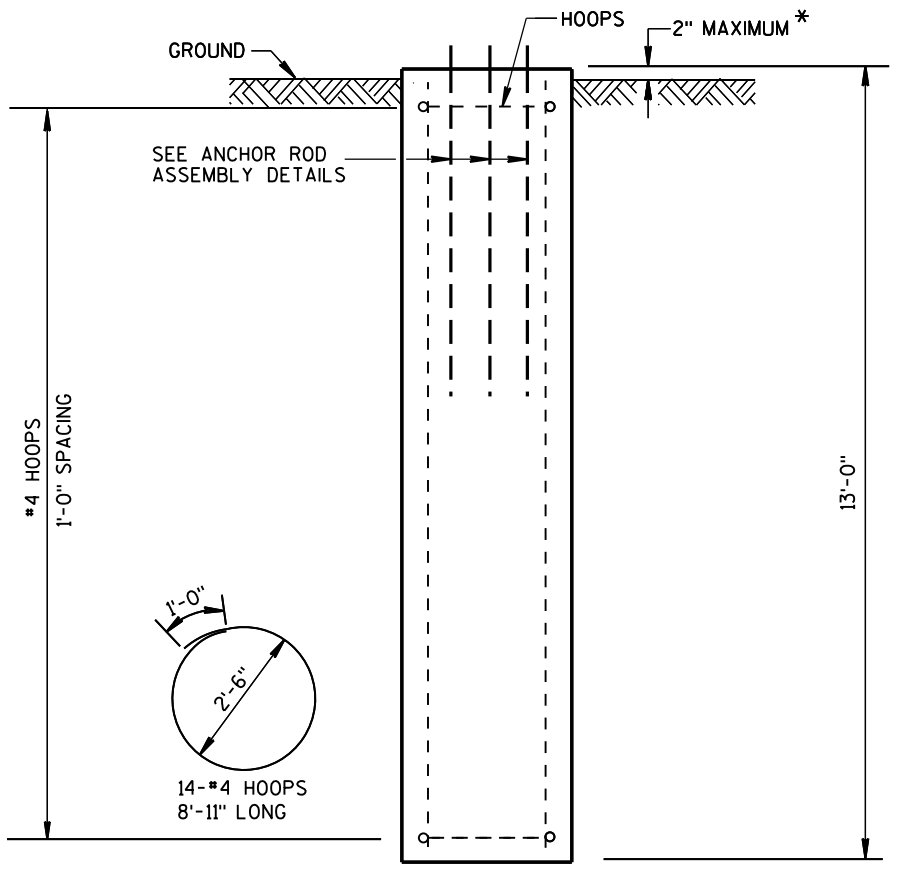
ANY DAMAGE TO THE CONCRETE BASE AND ANCHOR RODS DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

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.

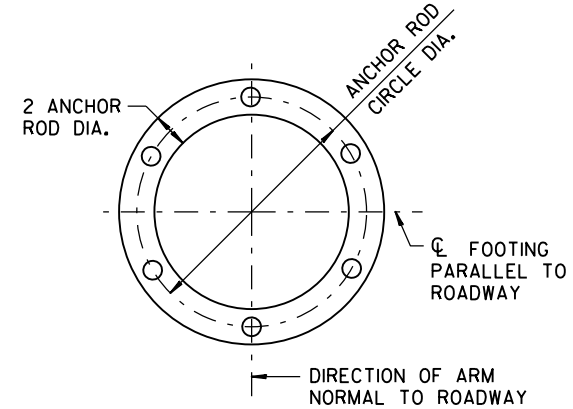
THIS FOOTING HAS BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 20 DEGREES (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 350 PSF (COHESIVE SOILS).



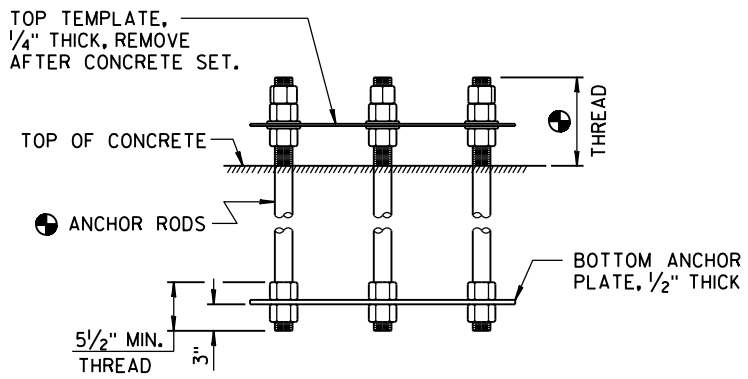
PLAN VIEW



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 CANTILEVER OVERHEAD SIGN SUPPORT BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
FHWA

/S/ Vu Thao
WIND LOADED STRU PROGRAM LEAD

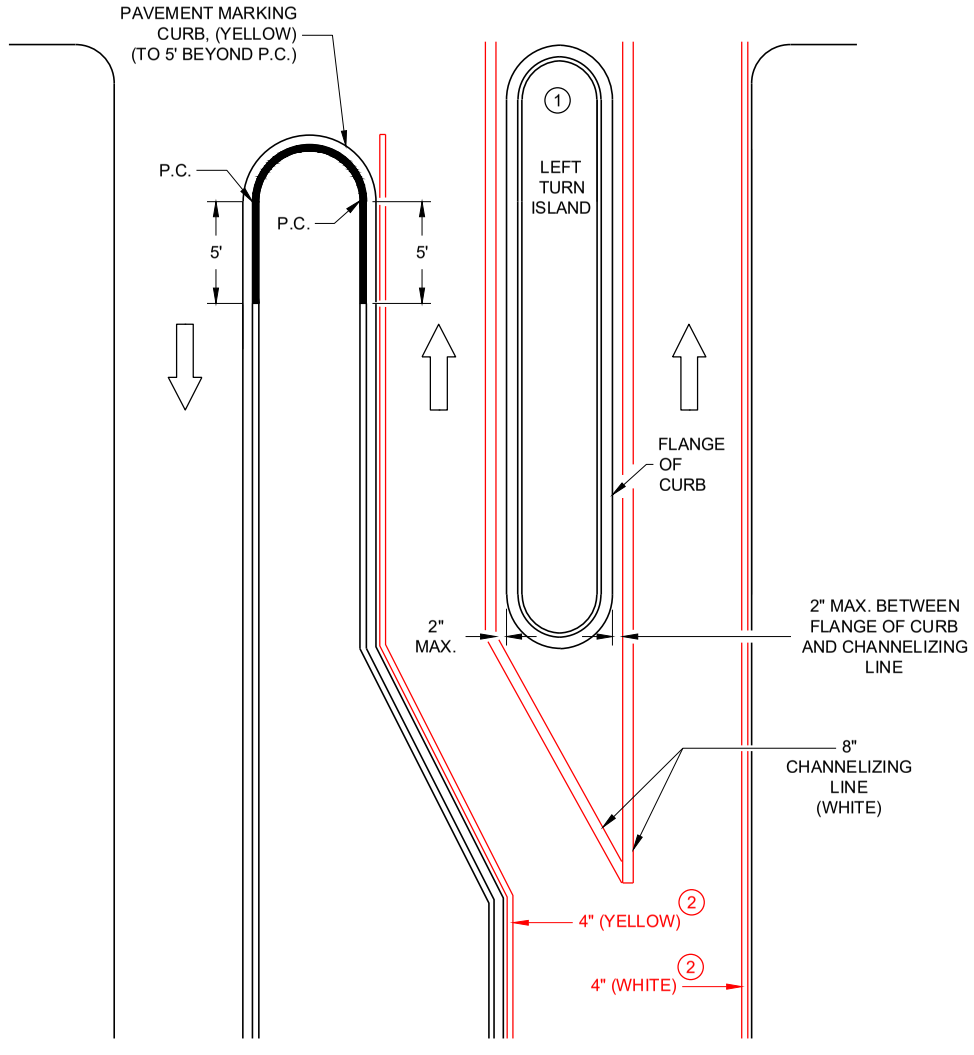
6

S.D.D. 15 C 24-4

6

S.D.D. 15 C 24-4

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

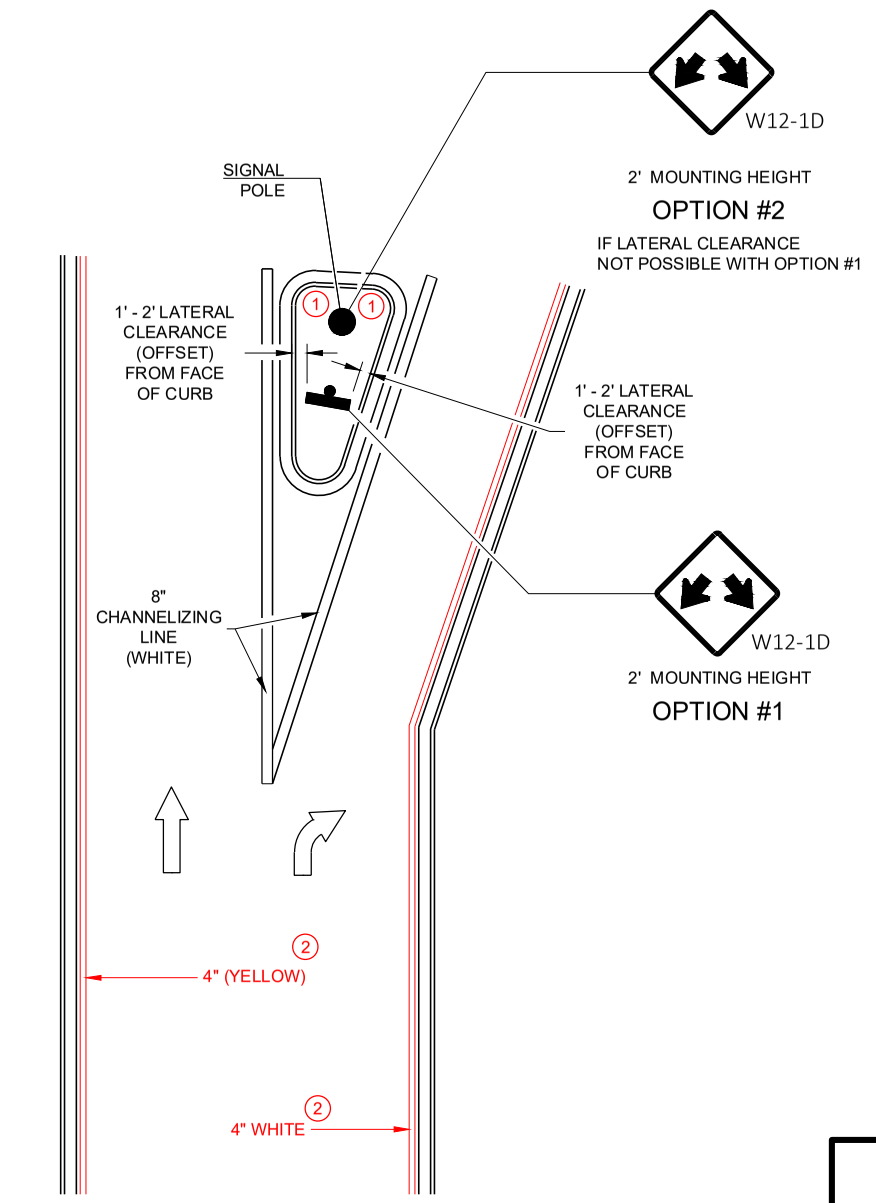
GENERAL NOTES

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
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAF ENGINEER

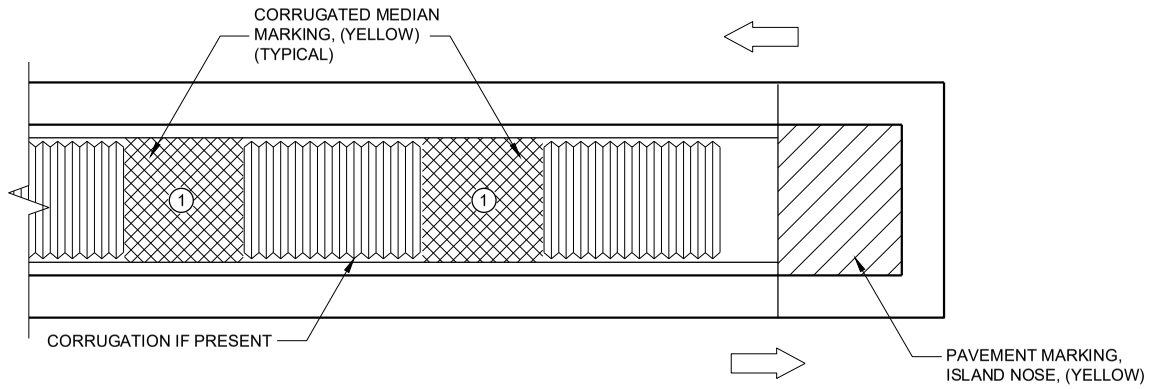
FHWA

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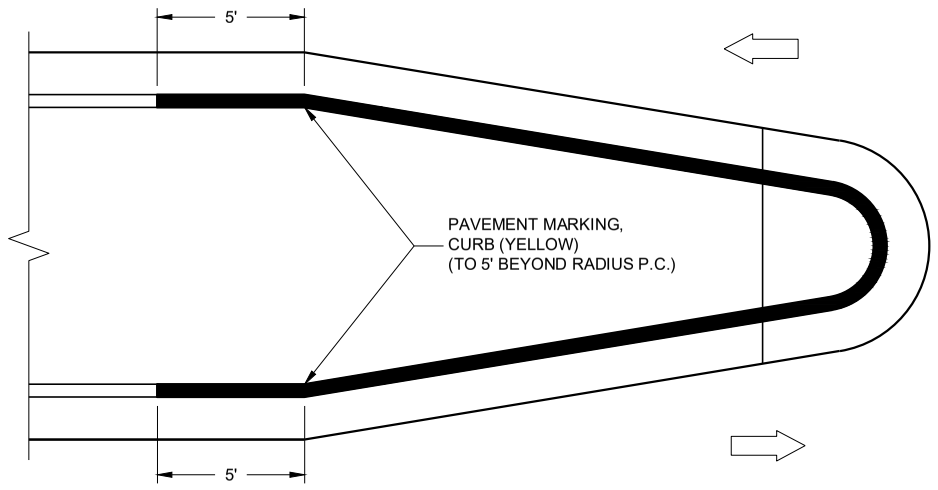
SDD 15C27 - 03a

6

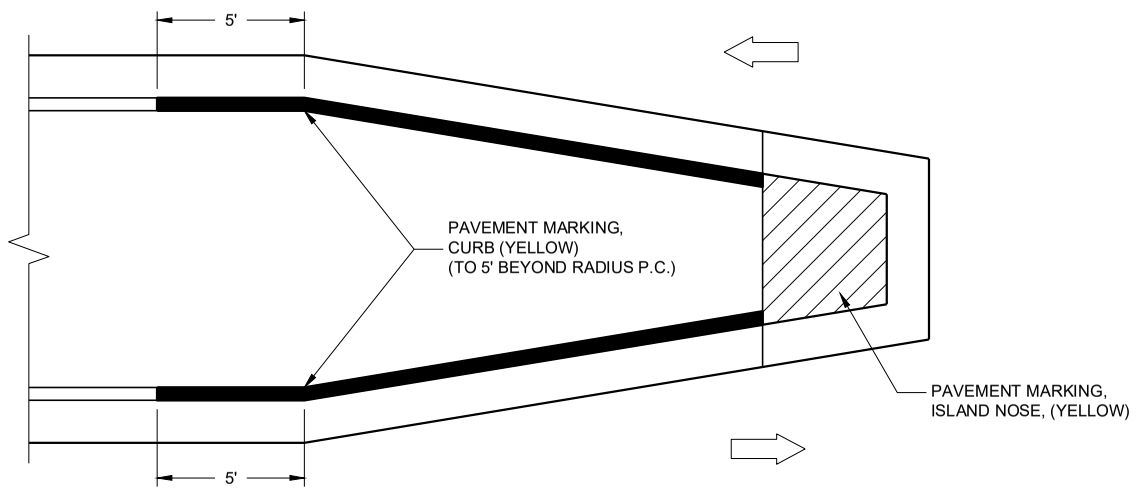
SDD 15C27 - 03a



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.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

**PAVEMENT MARKINGS
(ISLANDS)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

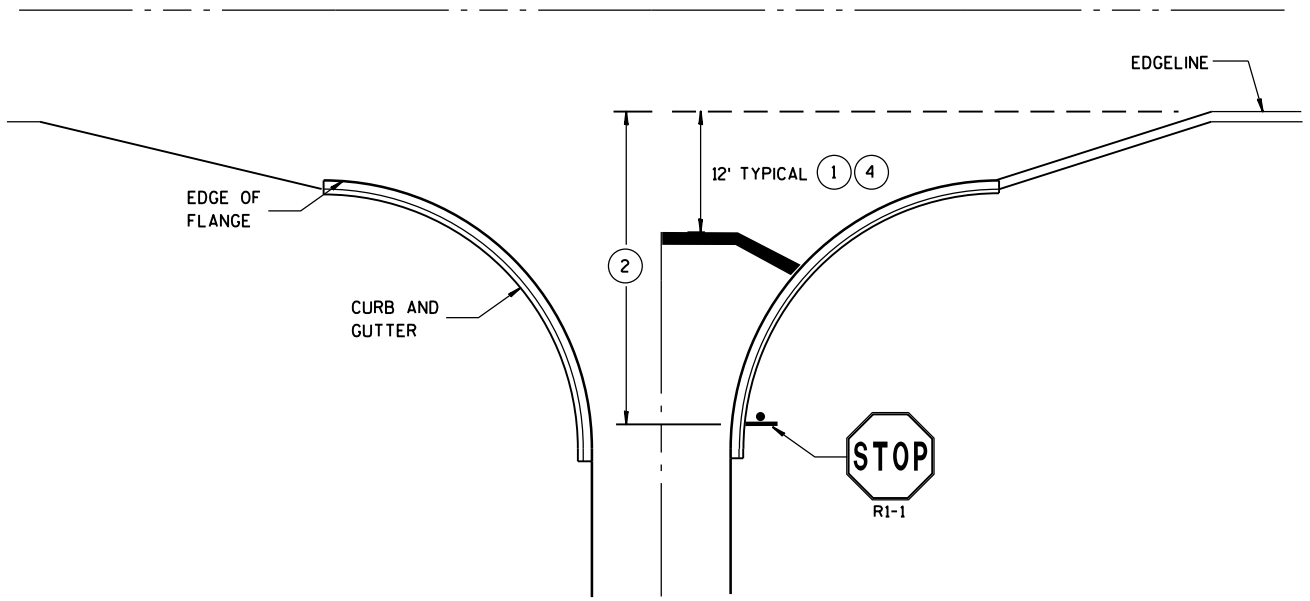
APPROVED
7/2018
DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAF ENGINEER
FHWA

6

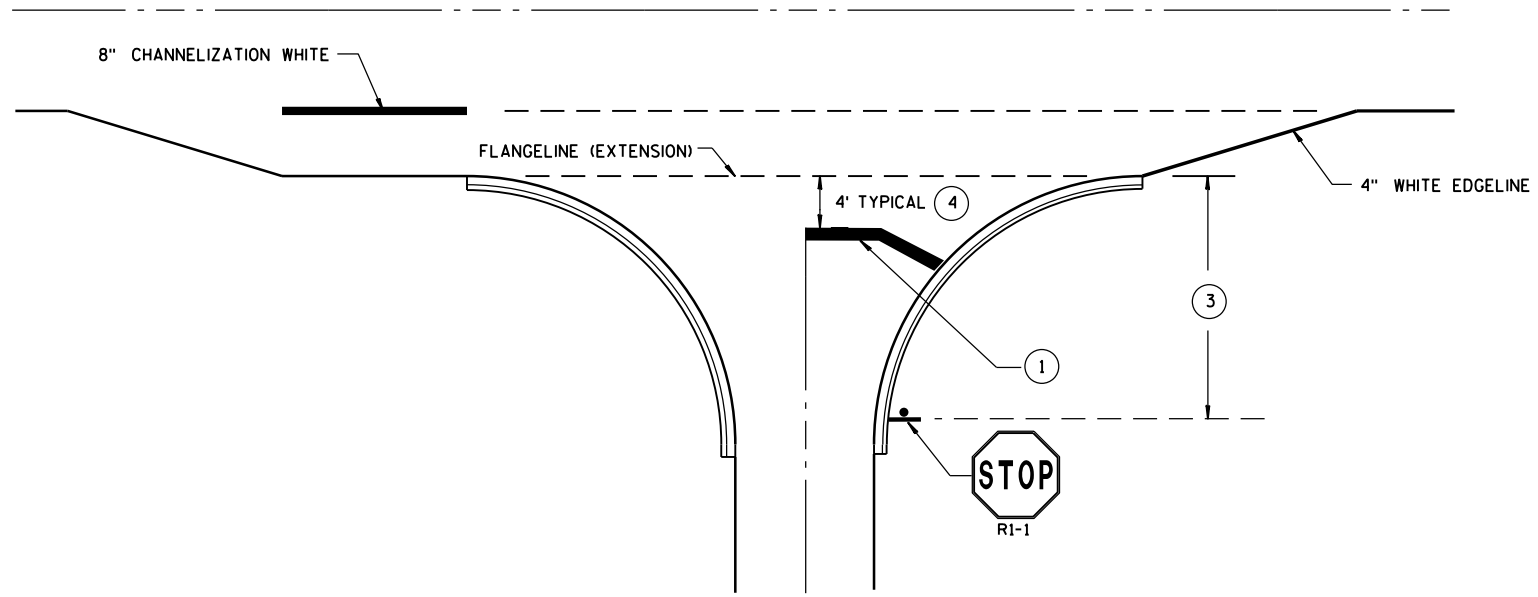
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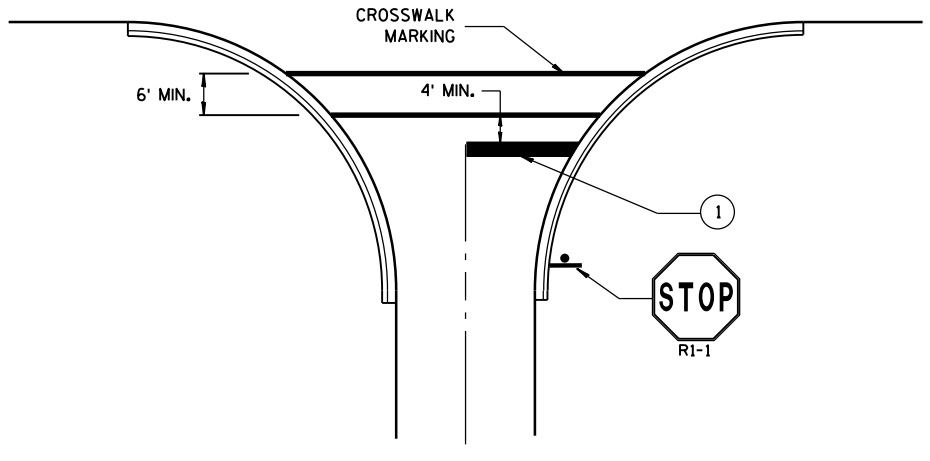
SDD15C27 - 03b



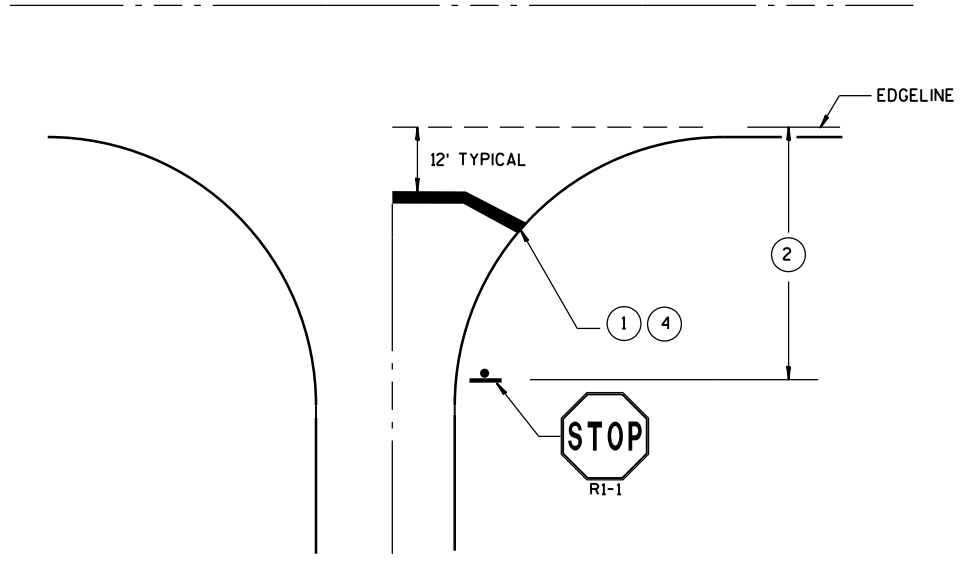
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

(1) 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.

(2) IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.

(3) IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.

(4) MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MAR 407 NEER

FHWA

6

S.D.D. 15 C 33-3

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

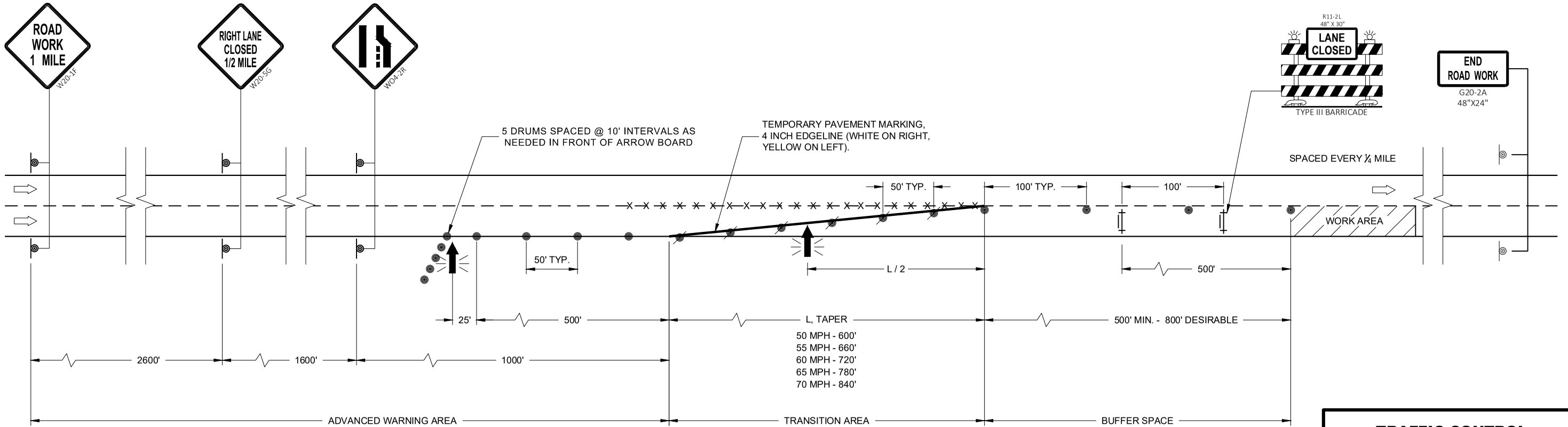
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL
LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Novermber 2018
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE 408
FHWA

6

SDD 15D12 - 07a

6

SDD15D12 - 07a

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC

GENERAL NOTES

THIS RAMP CLOSURE DETAIL IS TYPICAL FOR CLOSING A RIGHT SIDE EXIT RAMP. FOR A LEFT SIDE EXIT RAMP, REVERSE THE TRAFFIC CONTROL.

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 MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS 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.

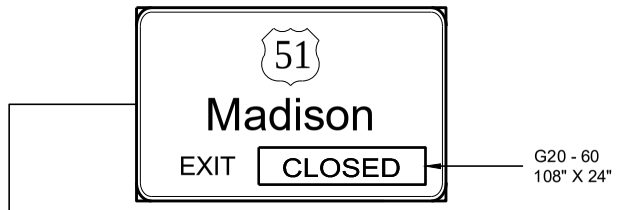
PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF RAMP CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WORK AREAS WITH A DROP OFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE. DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH, WHEN WORK IS NOT IN PROGRESS.

WHERE MEDIAN BARRIER IS IN PLACE, SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12 - HOUR DURATION.

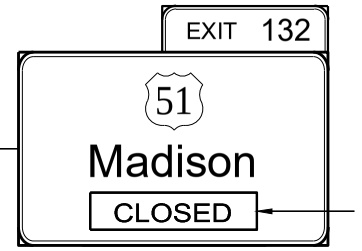
* W20 - 1A AND G20 - 2A SIGNS ARE NOT REQUIRED IF THE RAMP CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

** PLACE "RAMP CLOSED BEGINNING" SIGN OR PCMS 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.



G20 - 60
108" X 24"

OR



G20 - 60
108" X 24"

PLACE SIGN G20 - 60 OVER MILEAGE ON EXISTING E1 - 1A SIGN



COVER ARROW ON EXISTING E4 - 1 SIGN (COVERING SIGNS TYPE I)

G20 - 61
120 ' X 30"

OR

PCMS MESSAGING

FRAME 1	FRAME 2
RAMP TO CLOSE	XXXDAY XX XX XX

TRAFFIC CONTROL EXIT RAMP CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

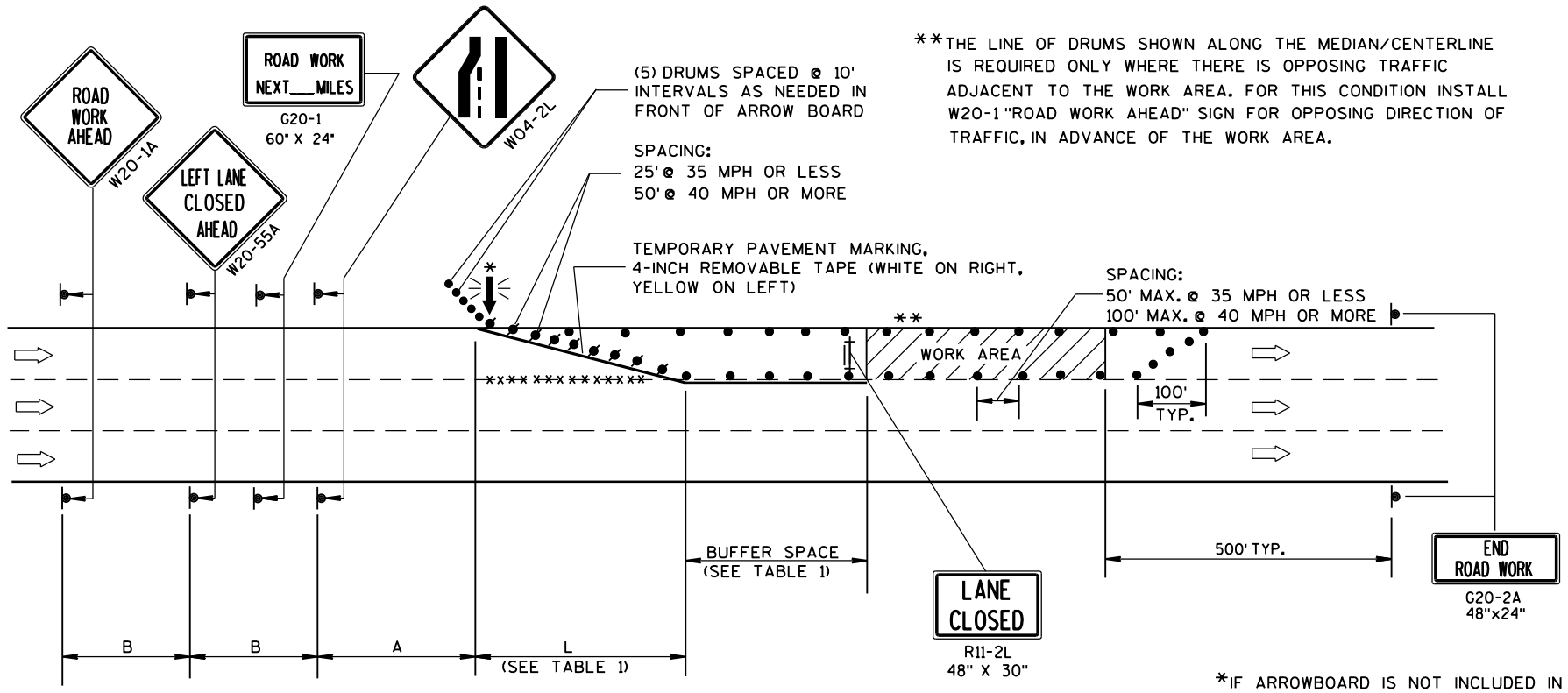
APPROVED
November 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D16 - 04



**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF TRAFFIC, IN ADVANCE OF THE WORK AREA.

B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

(PLACE BARRICADE AND SIGN APPROX. EVERY 1000' ACROSS THE CLOSED LANE)

*IF ARROWBOARD IS NOT INCLUDED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE A TYPE III BARRICADE WITH W01-6 SIGN IN THE LANE CLOSURE TAPER.

W01-6
48"x24"

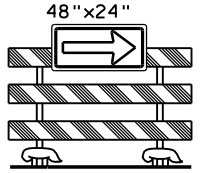


TABLE 1
TAPER AND BUFFER SPACE
FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

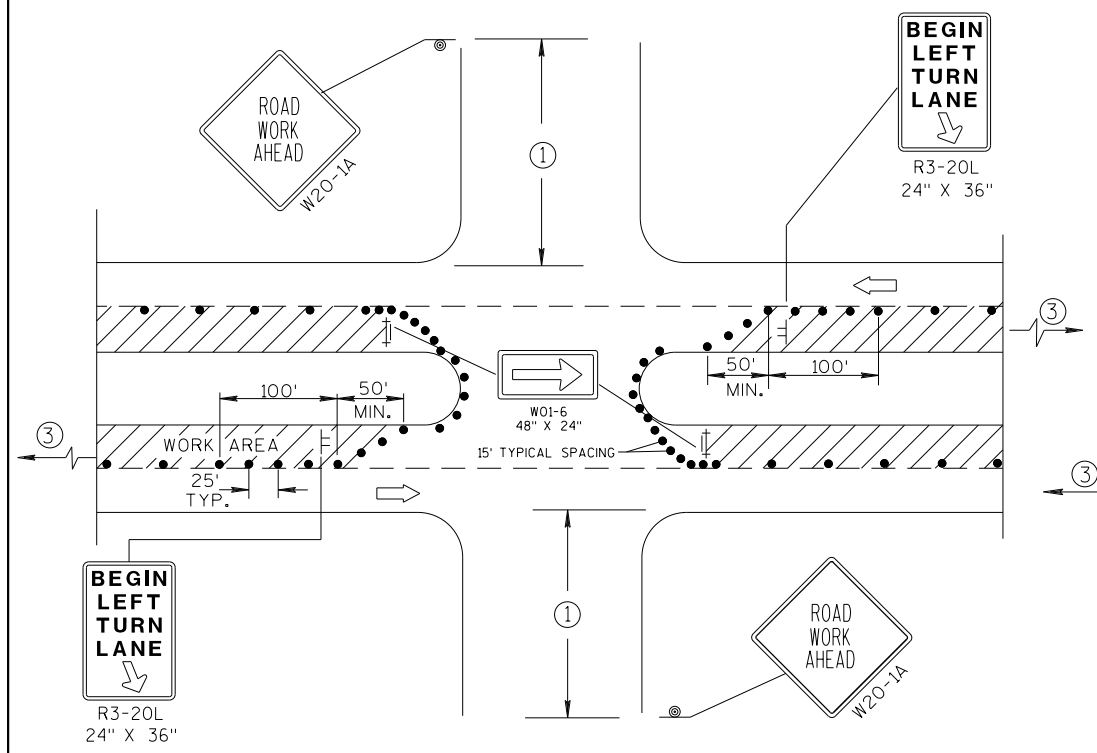
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

6

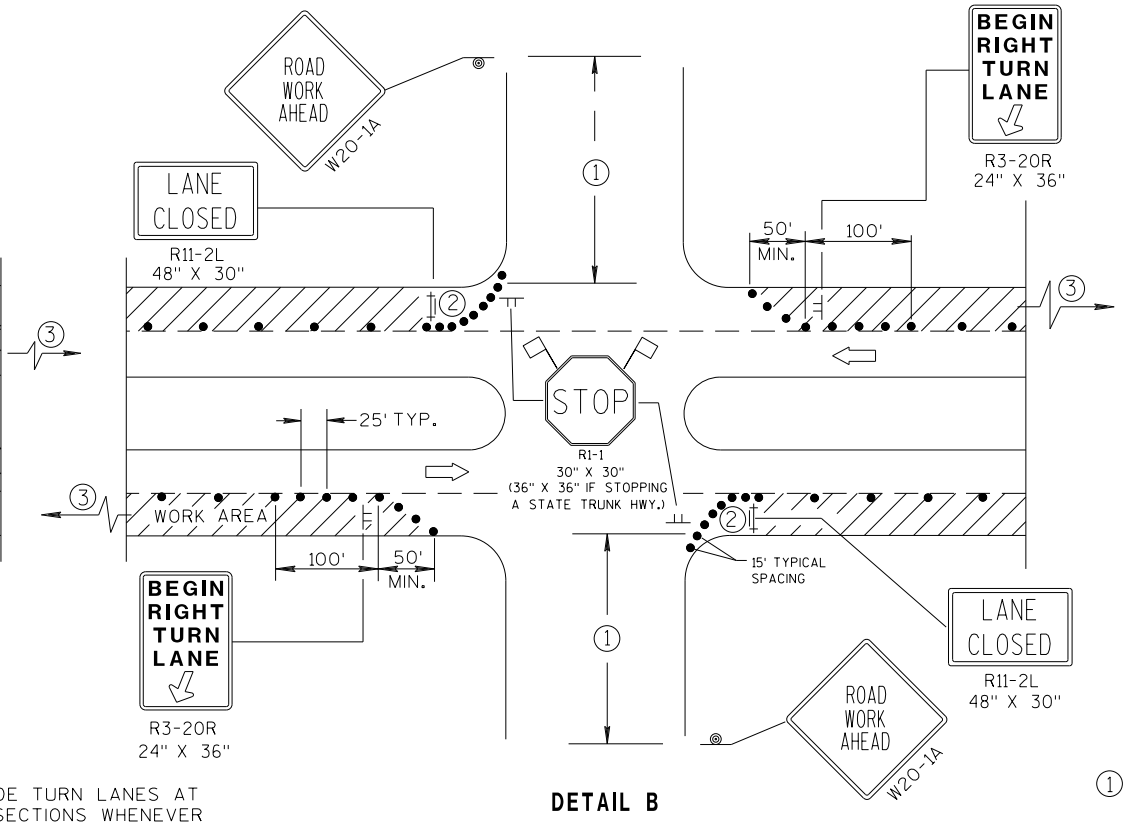
S.D.D. 15 D 20-4



DETAIL A

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



DETAIL B

FOR RIGHT LANE CLOSURE AT INTERSECTION

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND 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.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

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.

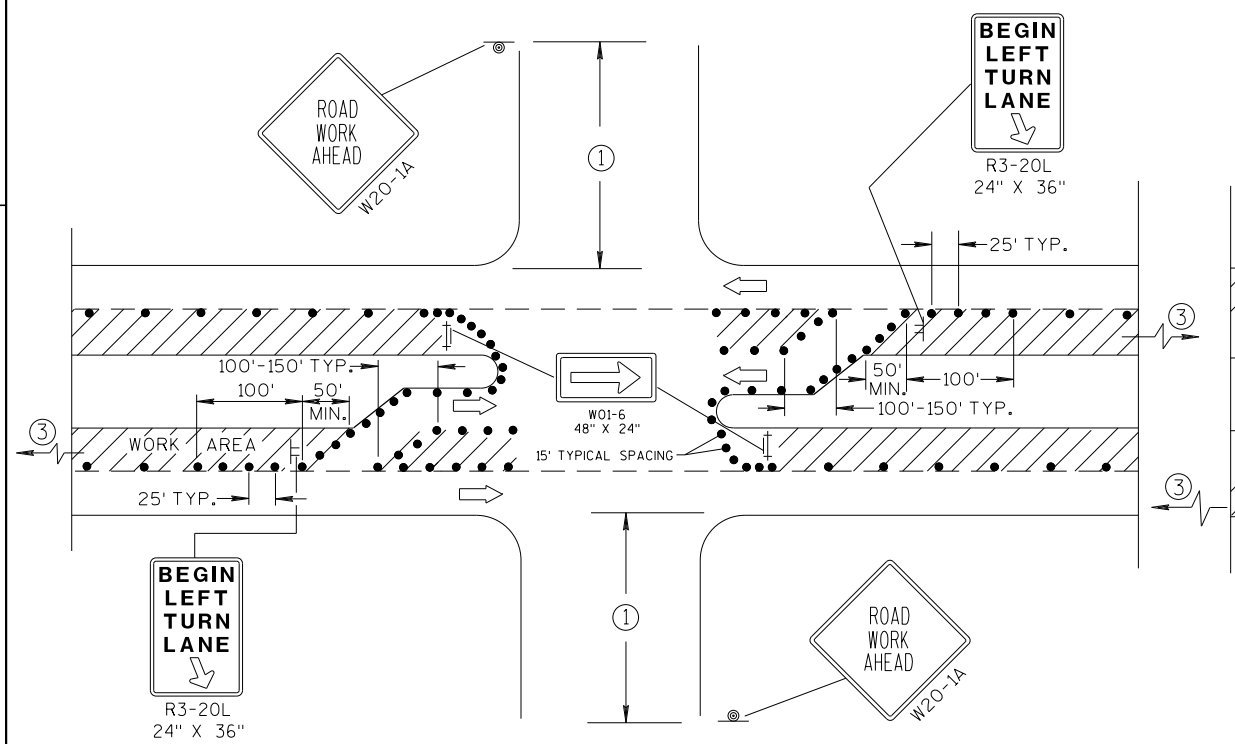
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35-40 MPH.
200' IF 25-30 MPH.

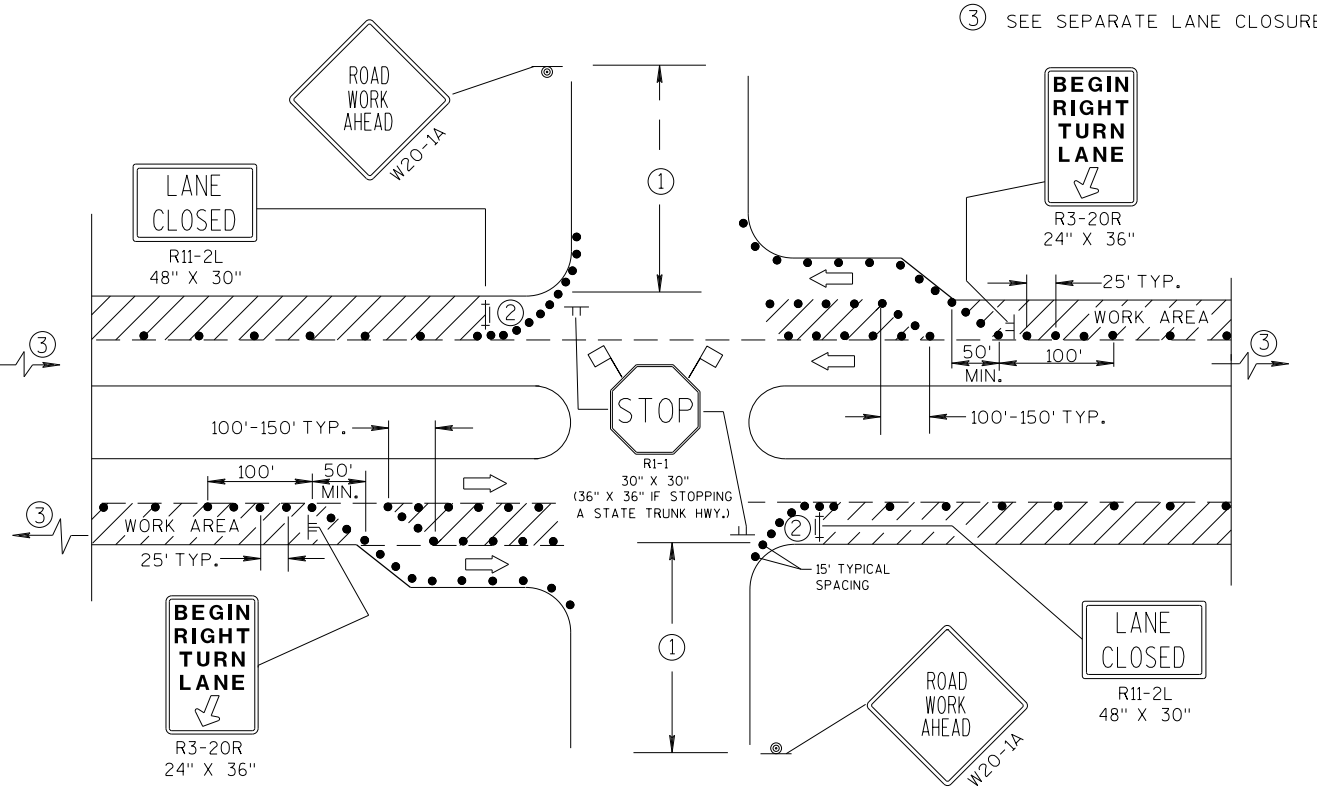
(2) ALSO USE BARRICADE AND 15-FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.



DETAIL C

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)



DETAIL D

FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- TYPE III BARRICADE WITH ATTACHED SIGN AND TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., (ORANGE)
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

FHWA

6

S.D.D. 15 D 21-6

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

TYPE III BARRICADE WITH ATTACHED SIGN

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY 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 DETAIL IS TYPICAL FOR CLOSING THE RIGHT TWO LANES. FOR CLOSING THE LEFT TWO LANES, REVERSE THE TRAFFIC CONTROL.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND 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 THE 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.

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.

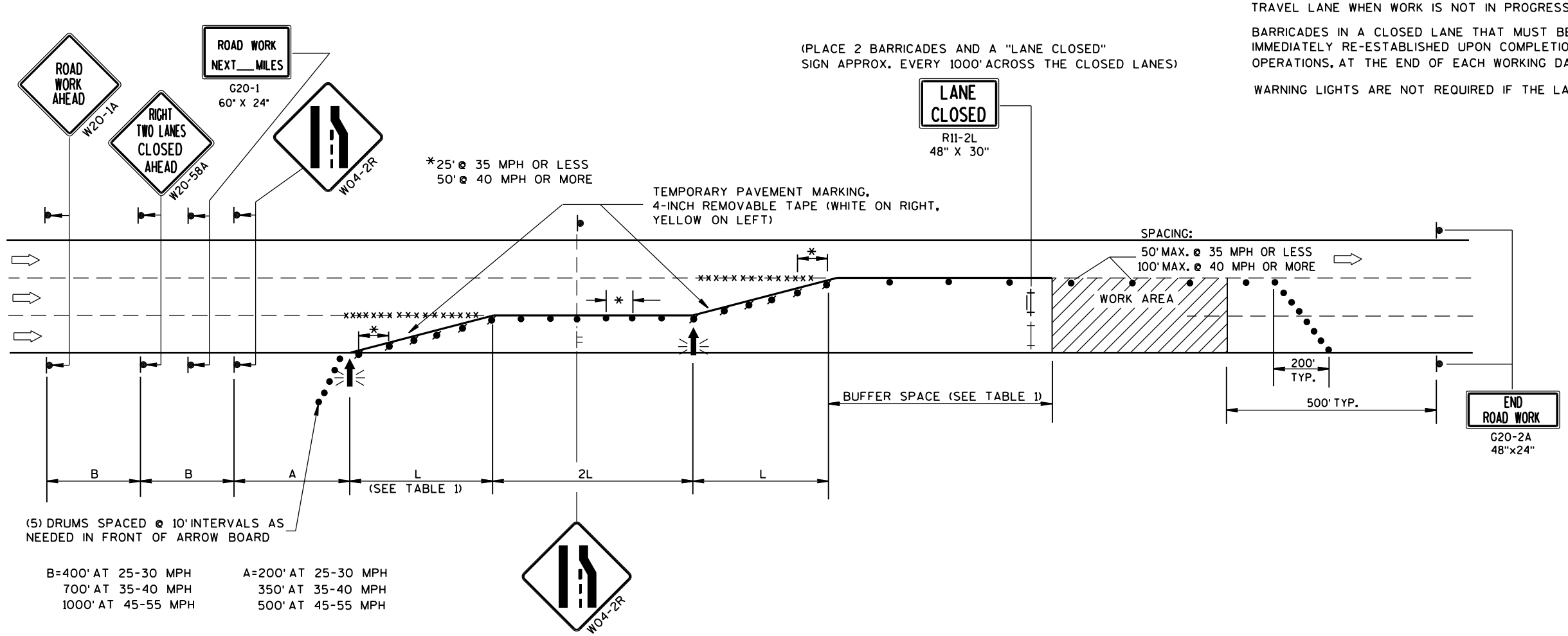
CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO LOCATE THE ARROWBOARD AS SHOWN, PLACE THE ARROWBOARD IN THE LANE CLOSURE TAPER AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE TAPER.

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.



B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

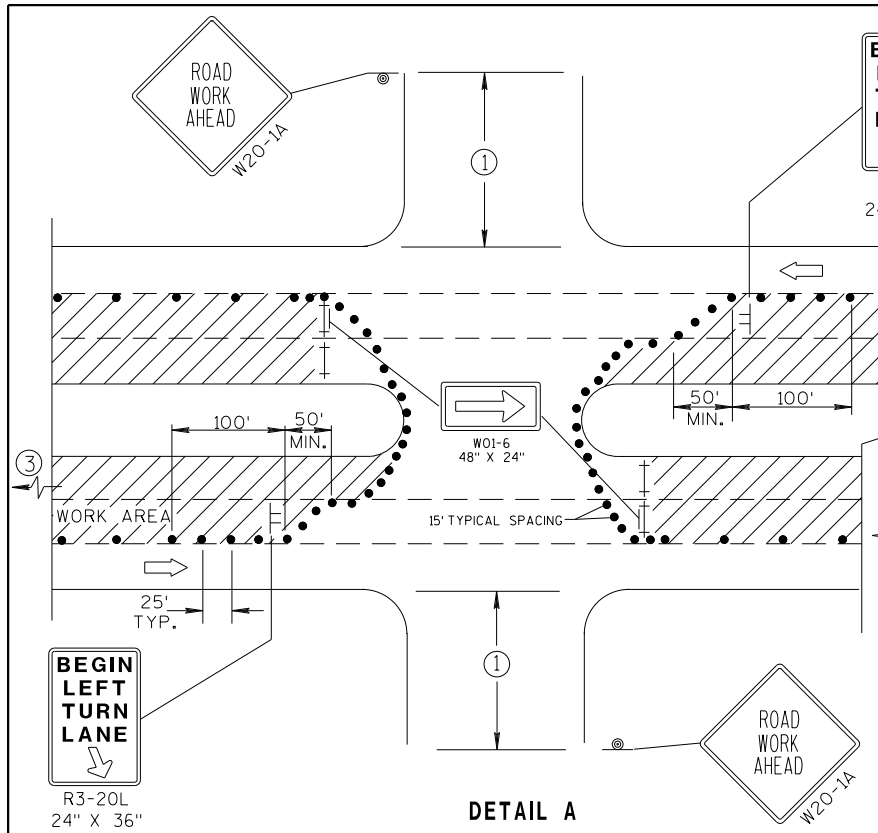
A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

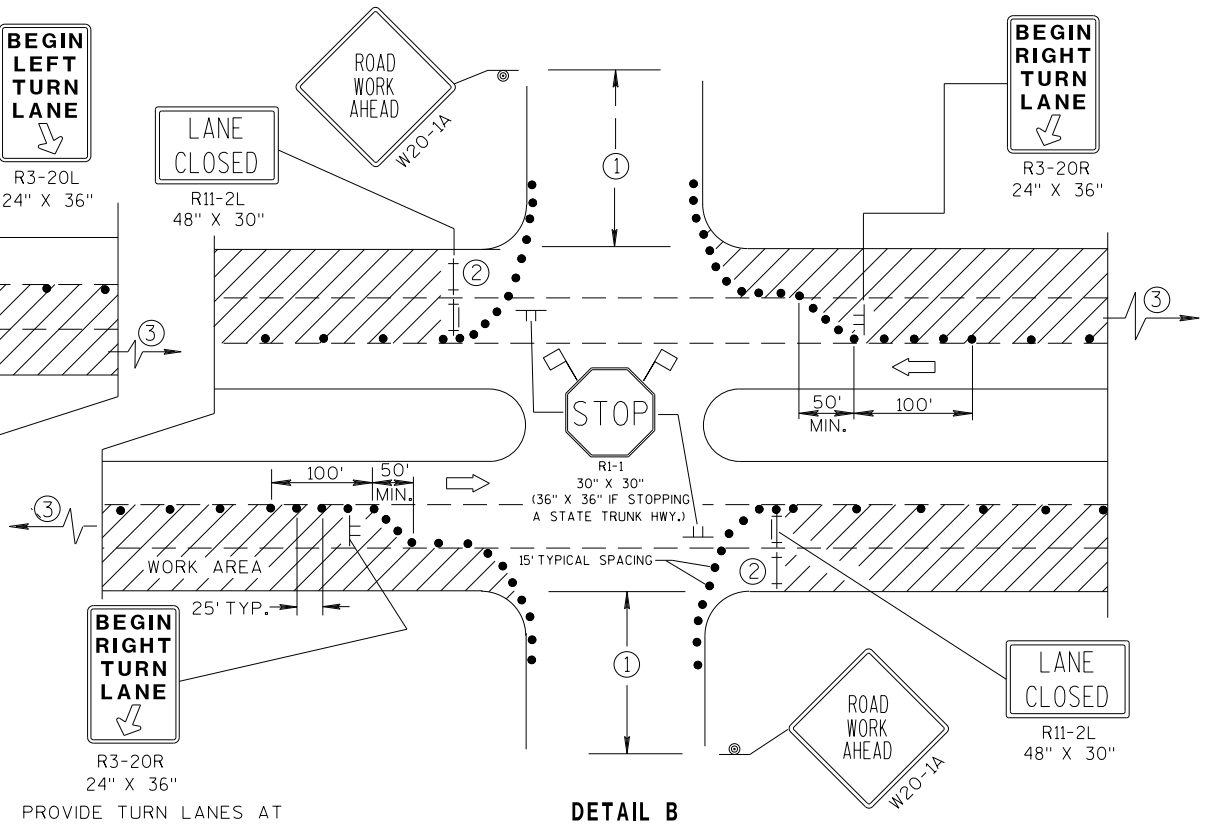
APPROVED
June 2016 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

6
S.D.D. 15 D 22-3



DETAIL A

FOR LEFT TWO LANES CLOSED AT INTERSECTION OR MEDIAN BREAK



DETAIL B

FOR RIGHT TWO LANES CLOSED AT INTERSECTION

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"×48" 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.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

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.

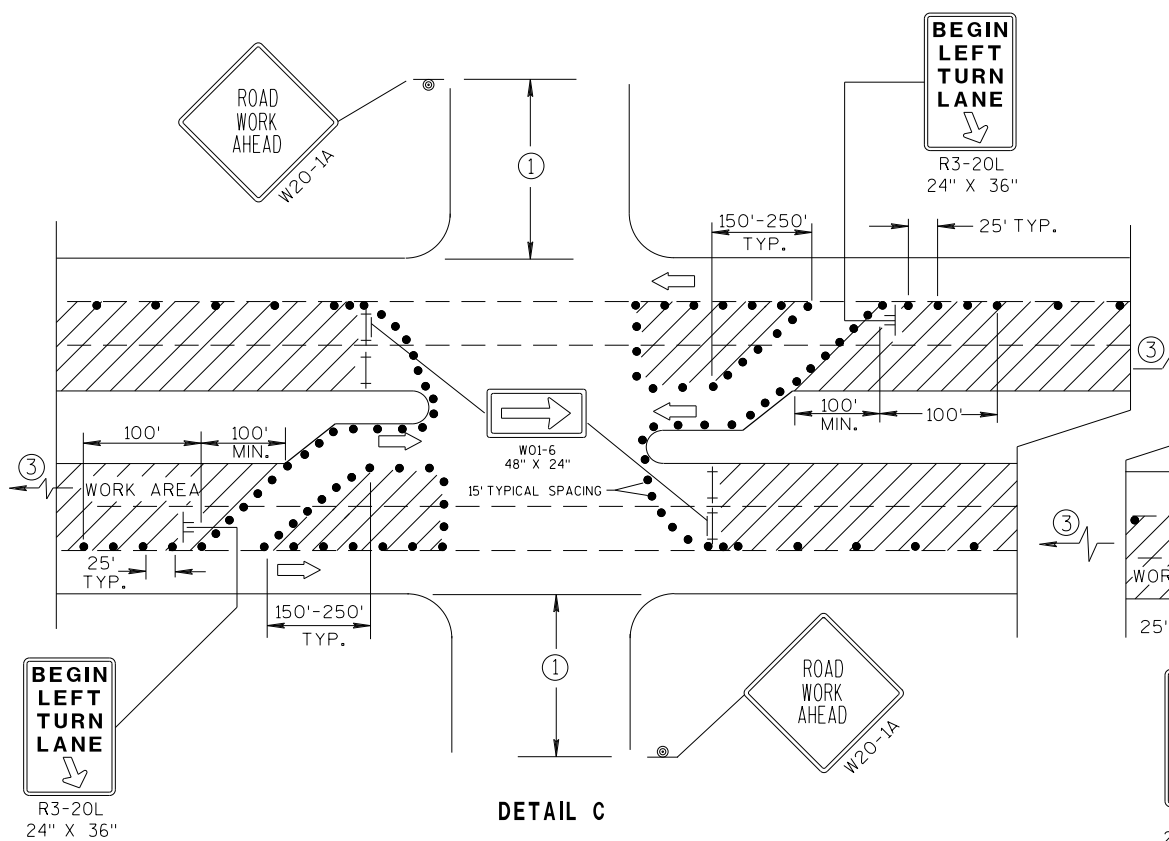
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BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

① 500 FEET TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350 FEET IF 35-40 MPH.
200 FEET IF 25-30 MPH.

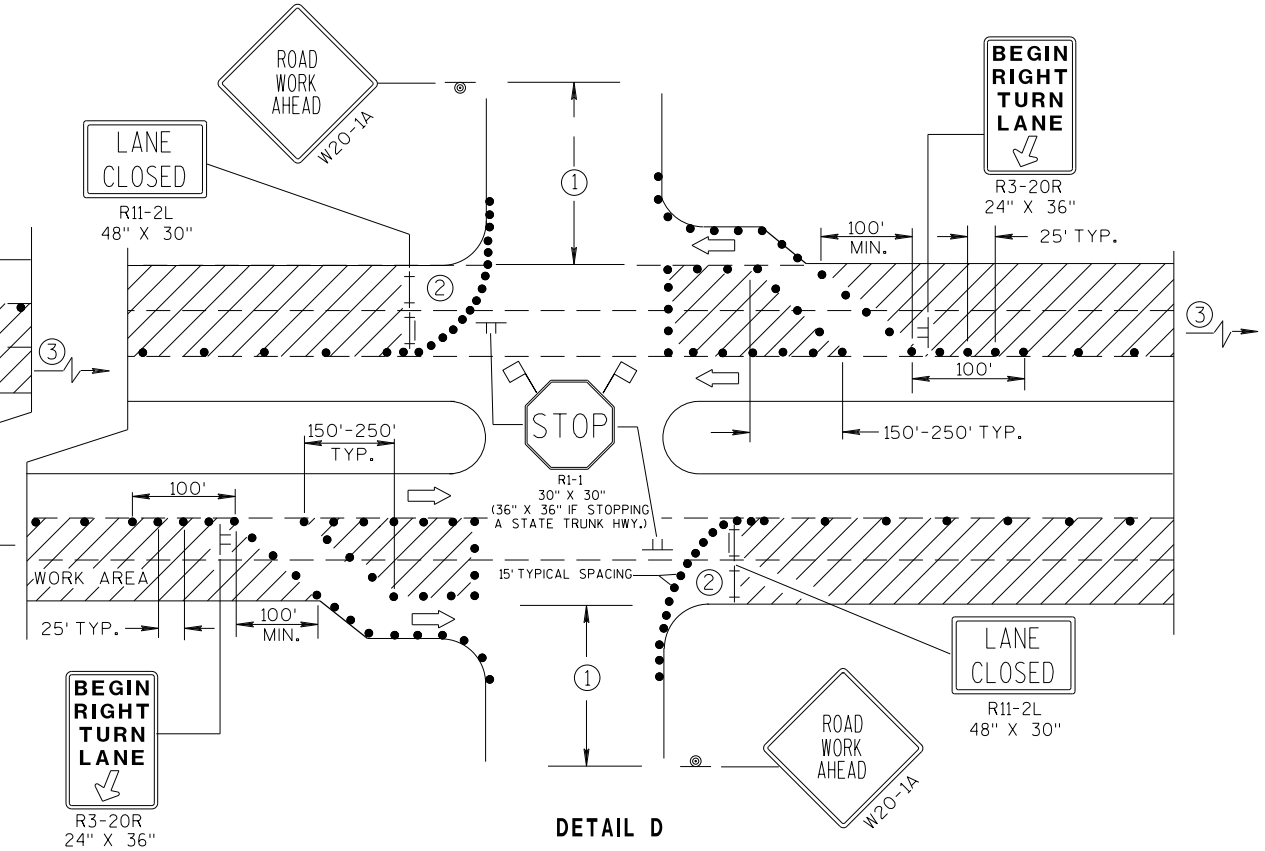
② ALSO USE BARRICADES AND 15-FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.

③ SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.



DETAIL C

FOR LEFT TWO LANES CLOSED AT INTERSECTION OR MEDIAN BREAK (WITH LEFT TURN BAY OPEN)



DETAIL D

FOR RIGHT TWO LANES CLOSED AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN AND TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., (ORANGE)
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Andrew Heidtke
WORK ZONE ENG
FHWA

6

S.D.D. 15 D 23-6

6

S.D.D. 15 D 23-6

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

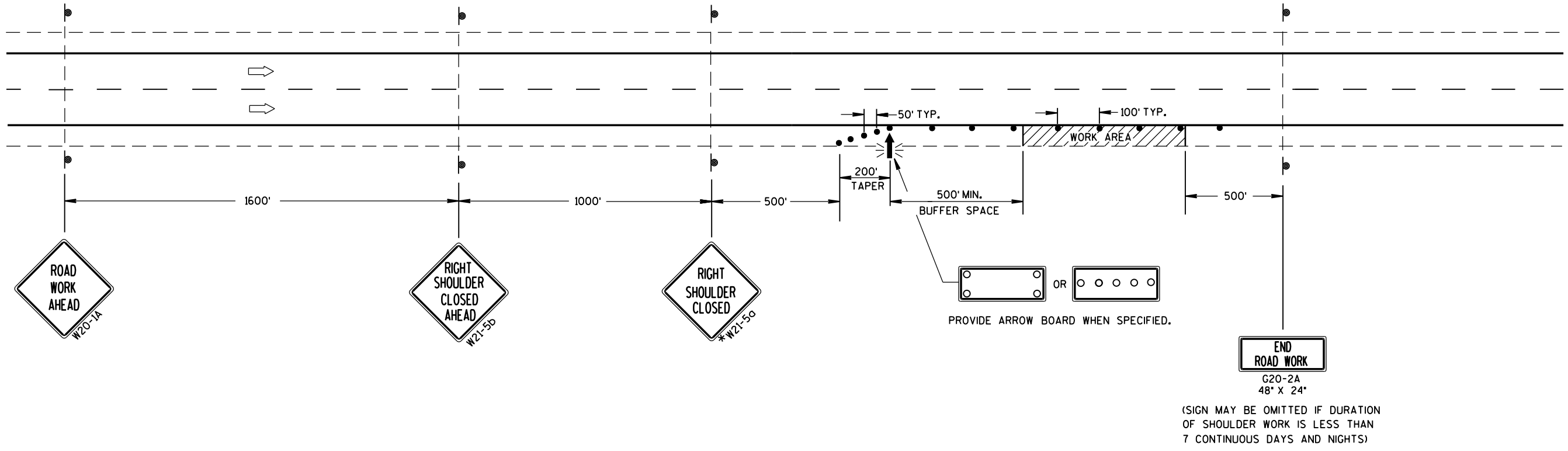
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible] SAFETY ENGI[illegible]

FHWA

6

S.D.D. 15 D 27-3

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- DIRECTION OF TRAFFIC
- WORK ZONE

TABLE A

SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
W / S	4	6	8	10	
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

W = SHOULDER WIDTH (FEET
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L= WS AT 45 MPH OR GREATER
L = WS² / 60 AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = 1/3L

GENERAL NOTES

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 THE REGIONAL TRAFFIC UNIT.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

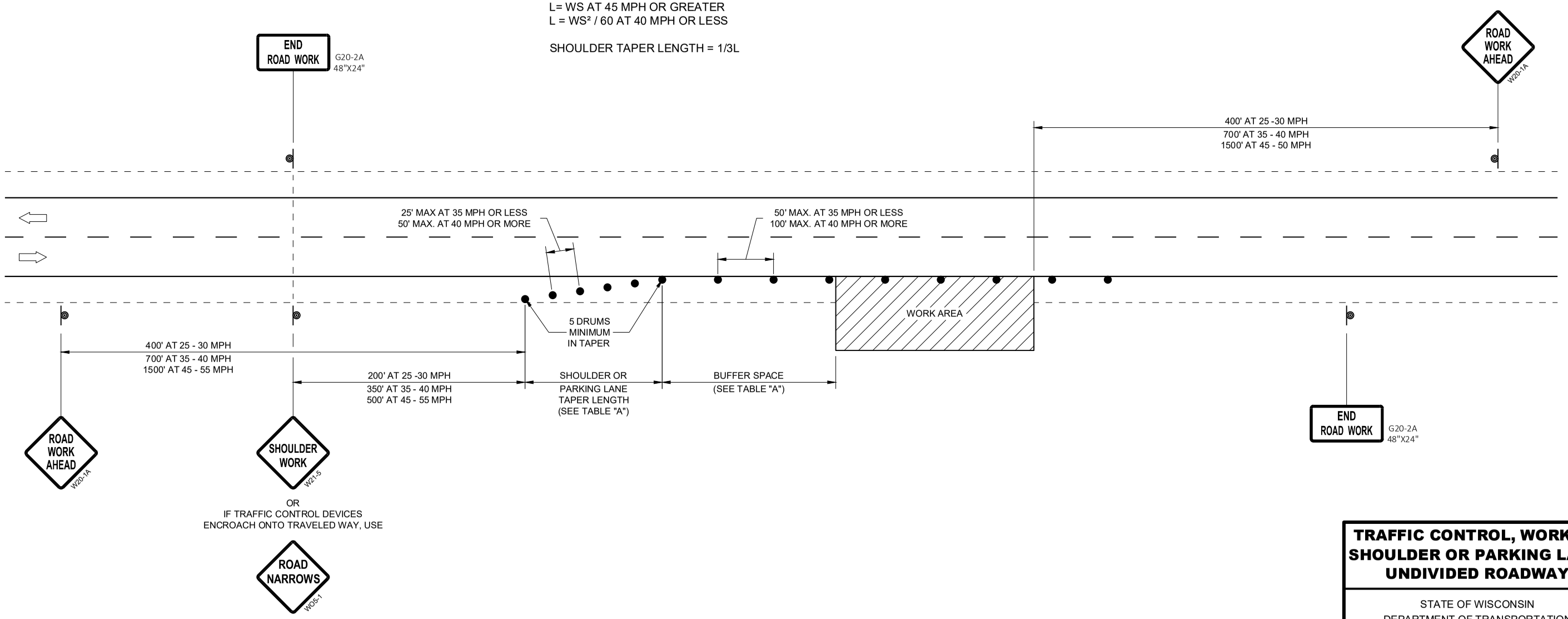
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY RESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.



TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2019
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

FHWA

6

SDD 15D28 - 03

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

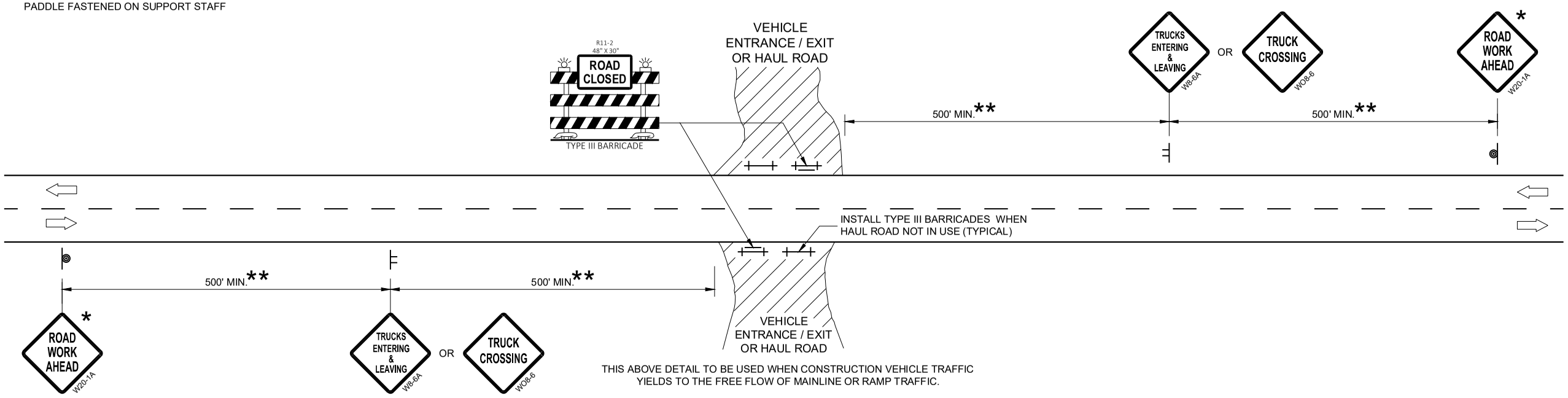
WHEN ACTIVITY REFLECTED BY THE SIGN IS NOT CURRENTLY TAKING PLACE, THE HIGHWAY SHALL BE RESTORED TO NORMAL CONDITION AND THE SIGNS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC.

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.

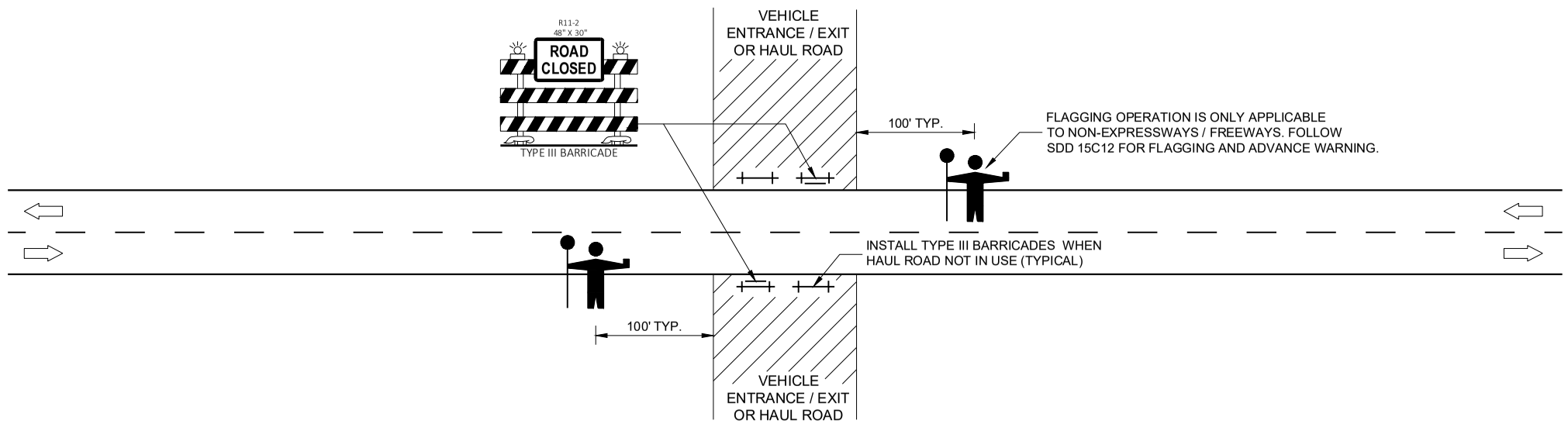
PLACE SIGNS ON BOTH SIDES IF USED ON DIVIDED HIGHWAY.

* THESE SIGNS ARE TO BE USED ONLY WHEN VEHICLE ENTRANCE / EXIT CONDITIONS ARE SEPARATED BY MORE THAN TWO 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 1000-1500 FEET FOR EXPRESSWAY / FREEWAY.



THIS ABOVE DETAIL TO BE USED WHEN CONSTRUCTION VEHICLE TRAFFIC YIELDS TO THE FREE FLOW OF MAINLINE OR RAMP 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

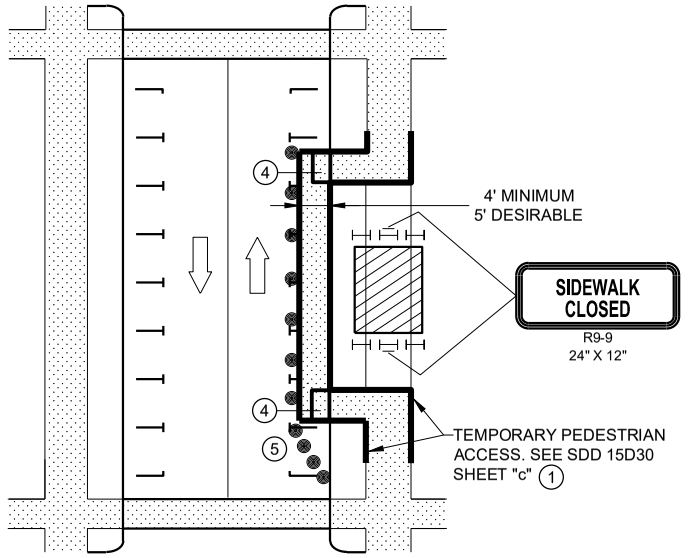
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

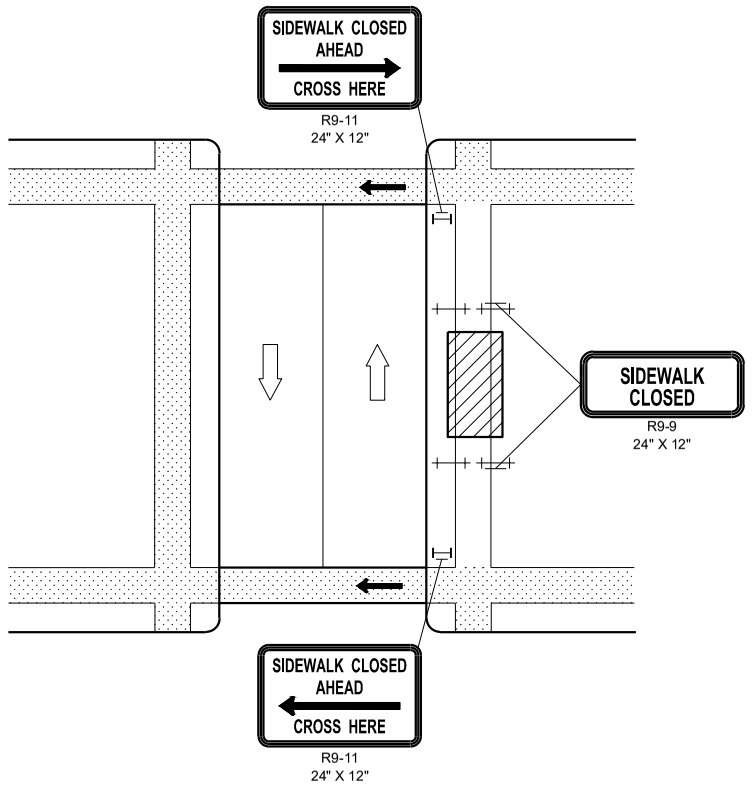
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SDD 15D29 - 05

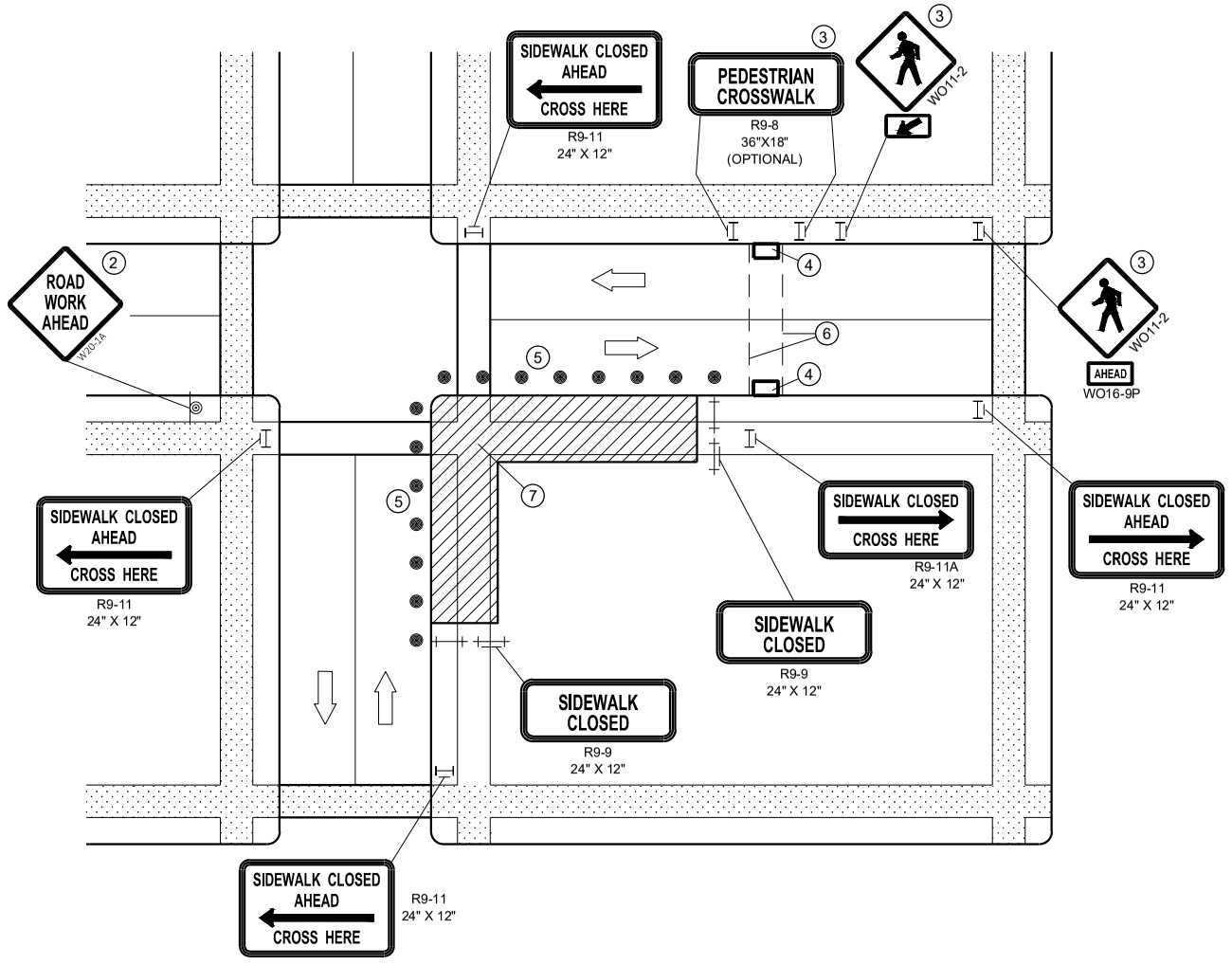
NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.



MID-BLOCK SIDEWALK SIDEWALK CLOSURE IN PARKING LANE

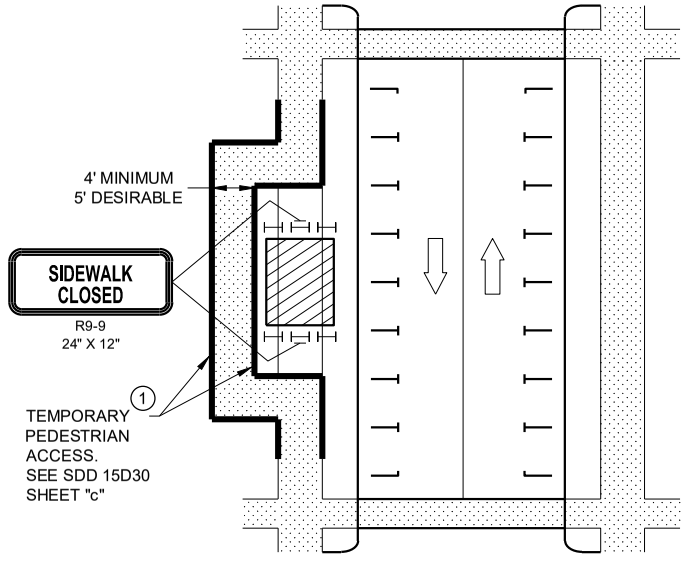


MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

"WO" SIGN IS THE SAME AS "W" SIGN, EXCEPT THE BACKGROUND IS ORANGE.

FOR NIGHTIME CLOSURE, USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEK LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

(1) IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE

(2) "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

(3) IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND WO11-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.

(4) TEMPORARY CURB RAMPS. SEE SDD 15D30 SHEET "b'.

(5) DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.

(6) TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.

(7) LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

LEGEND

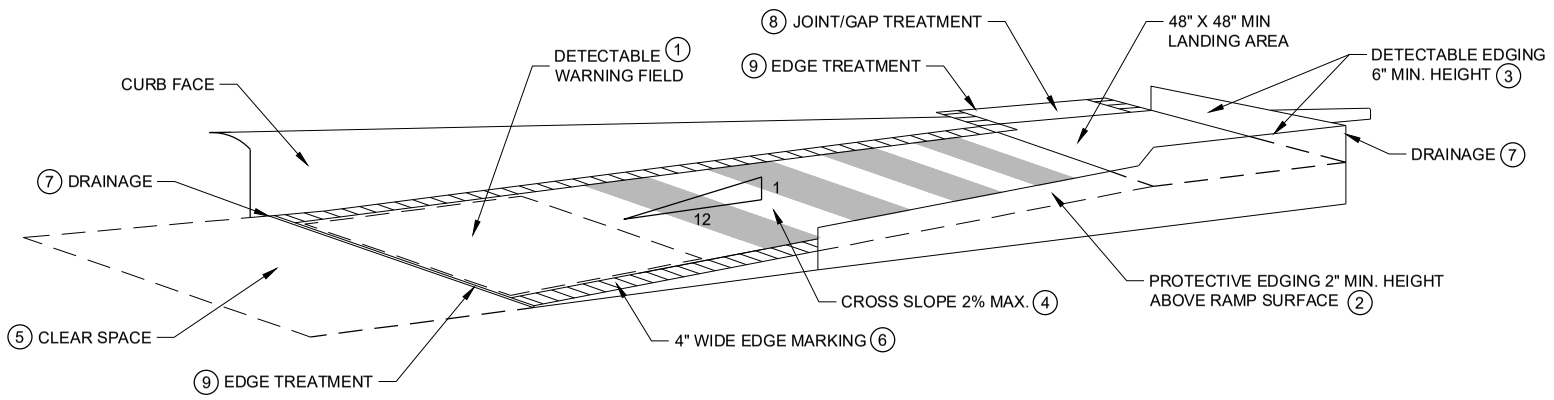
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
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SDD15D30 - 05a



TEMPORARY CURB RAMP PARALLEL TO CURB

LEGEND

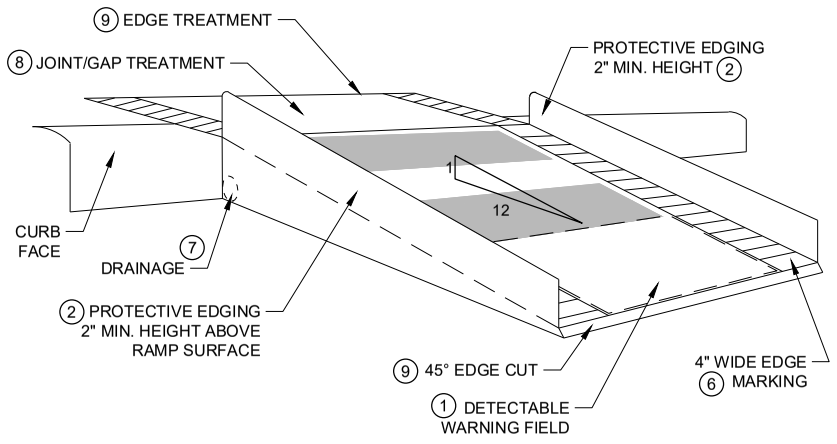
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- WORK AREA

GENERAL NOTES

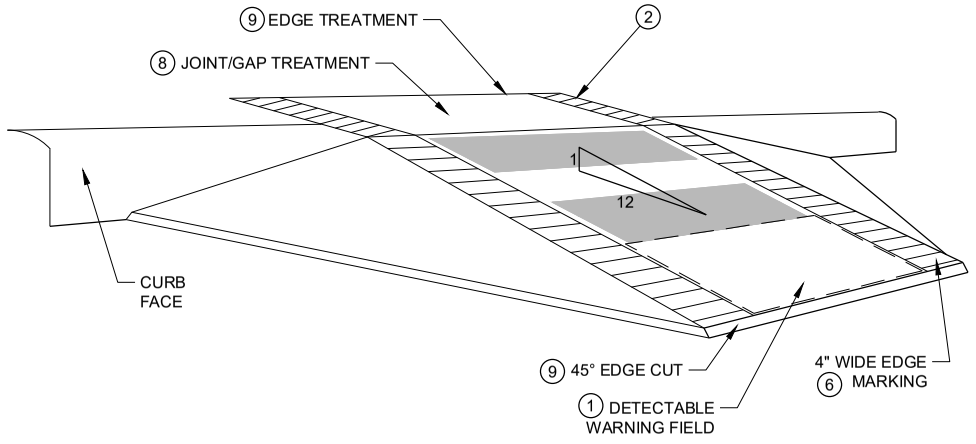
NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

1. CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 08D05, SHEET "e".
2. PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
3. DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
5. CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
6. THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.
7. DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.
9. CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES SHALL BE VERTICAL UP TO ¼" HIGH AND BEVELED AT 1:2 BETWEEN ¼" AND ½".
10. 5" WIDE MIN. WITH PEDESTRIAN SAFETY BARRICADE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY BARRICADE.

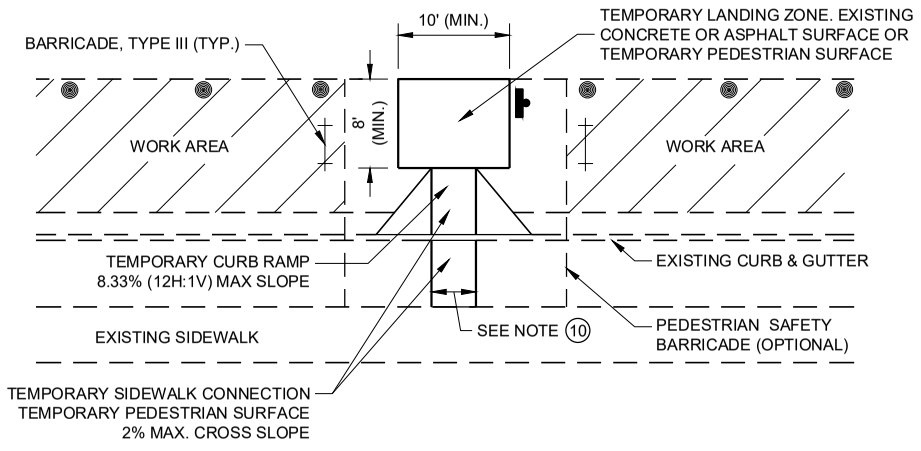


WITH PROTECTIVE EDGE



WITH SIDE APRON

TEMPORARY CURB RAMP PERPENDICULAR TO CURB



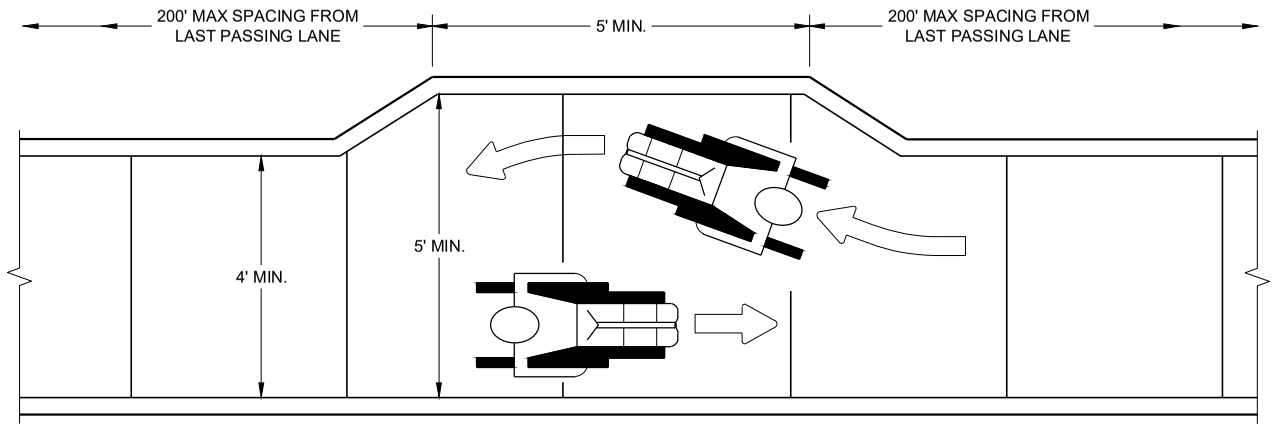
TEMPORARY BUS STOP PAD

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

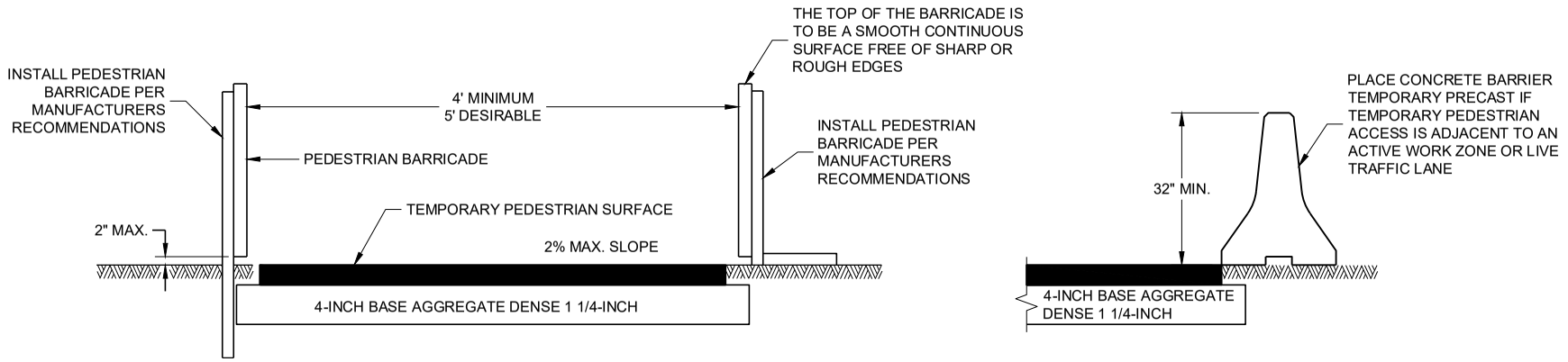
STATE OF WISCONSIN
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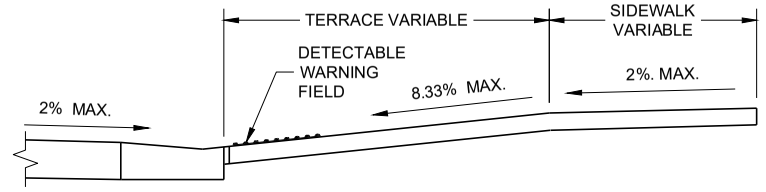
SDD 15D30 - 05b



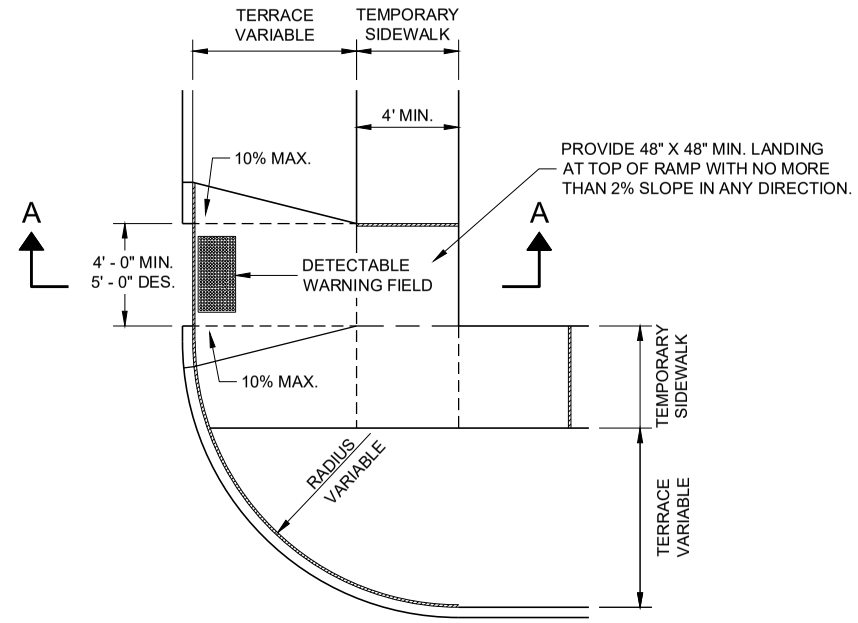
NARROW SIDEWALK PASSING DETAIL



TEMPORARY PEDESTRIAN ACCESS



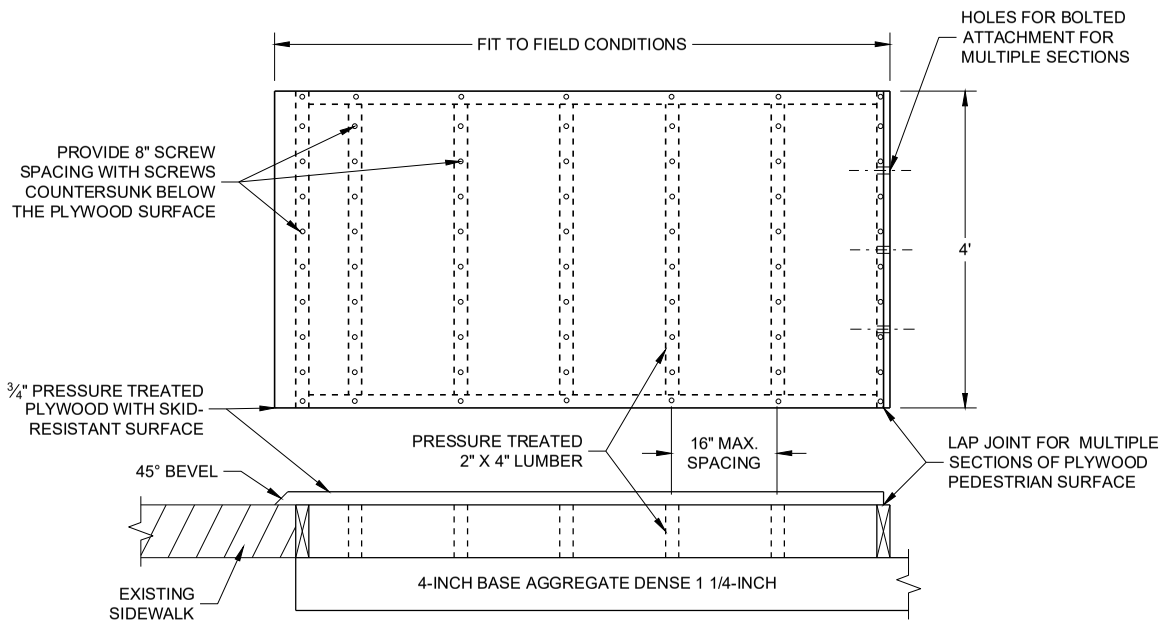
SECTION A - A



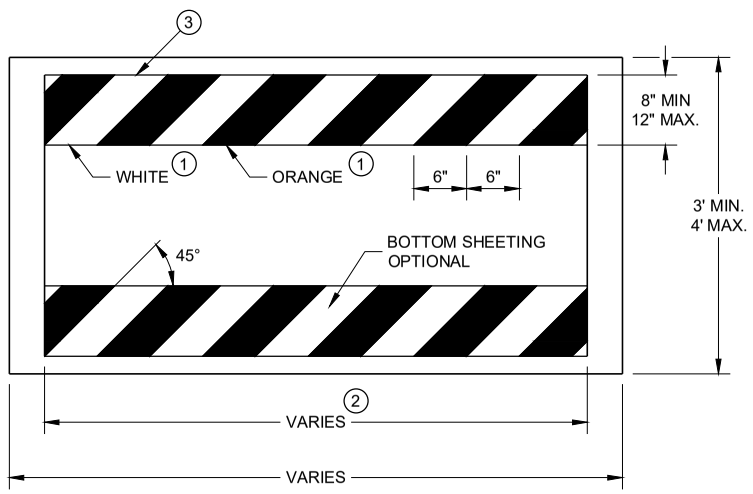
PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



TEMPORARY PEDESTRIAN BARRICADE *

GENERAL NOTES

BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

(2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.

(3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.

* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
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APPROVED
May 2019
DATE

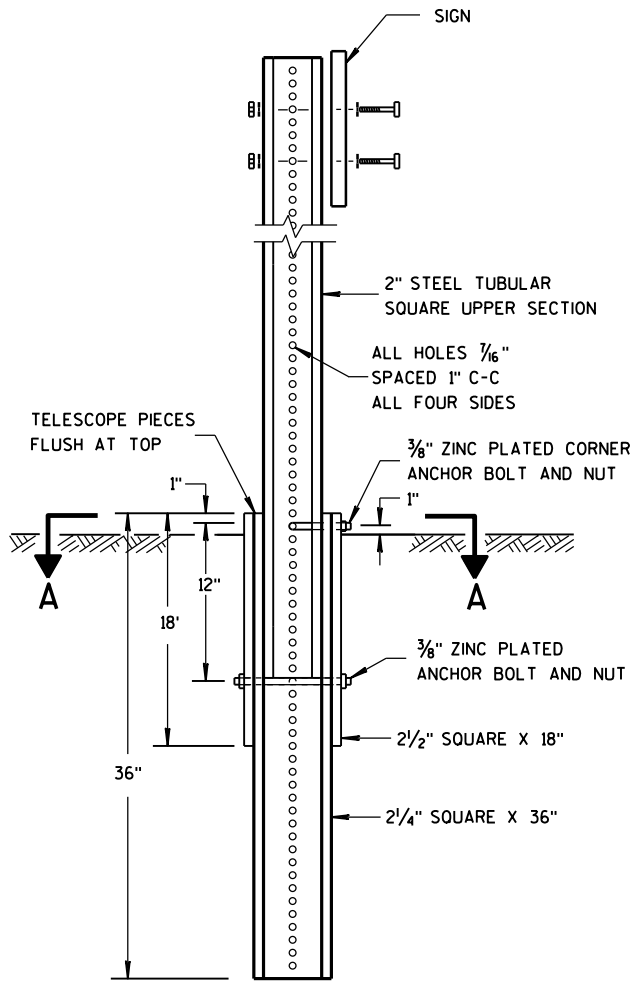
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

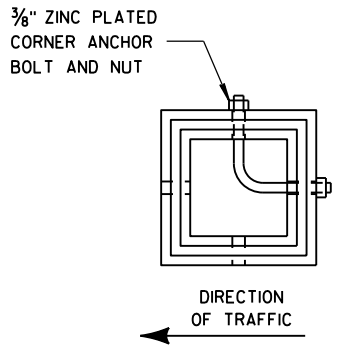
SDD 15D30 - 05c

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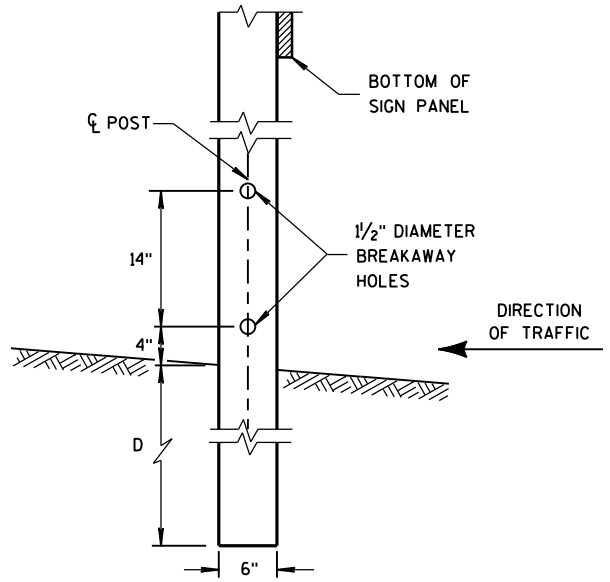
SDD 15D30 - 05c



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



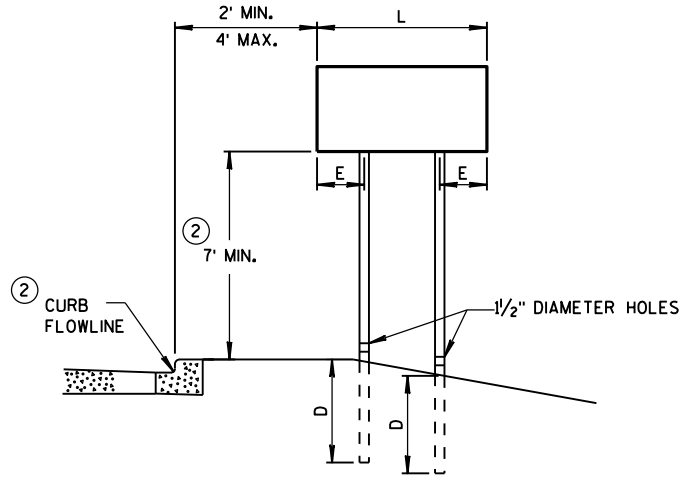
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

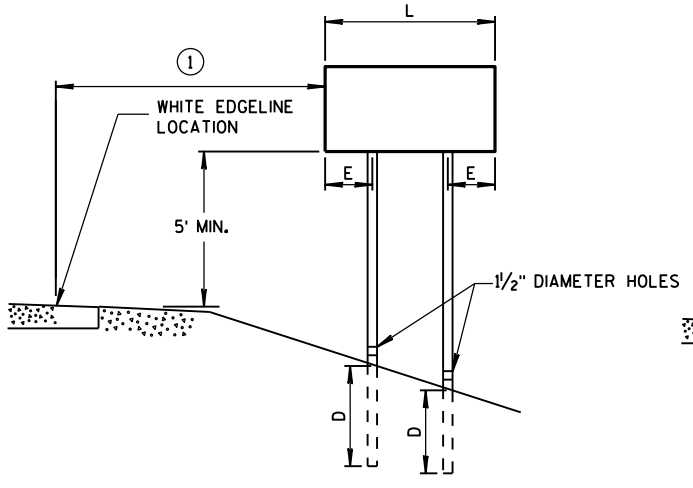
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

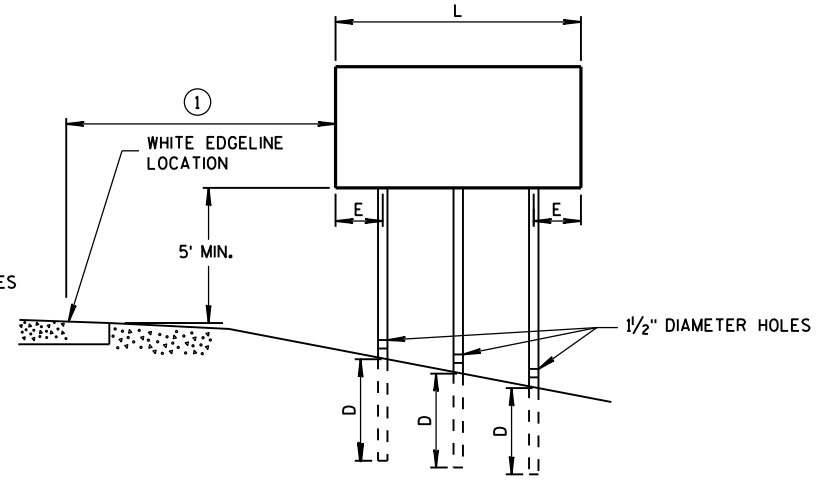
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK 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

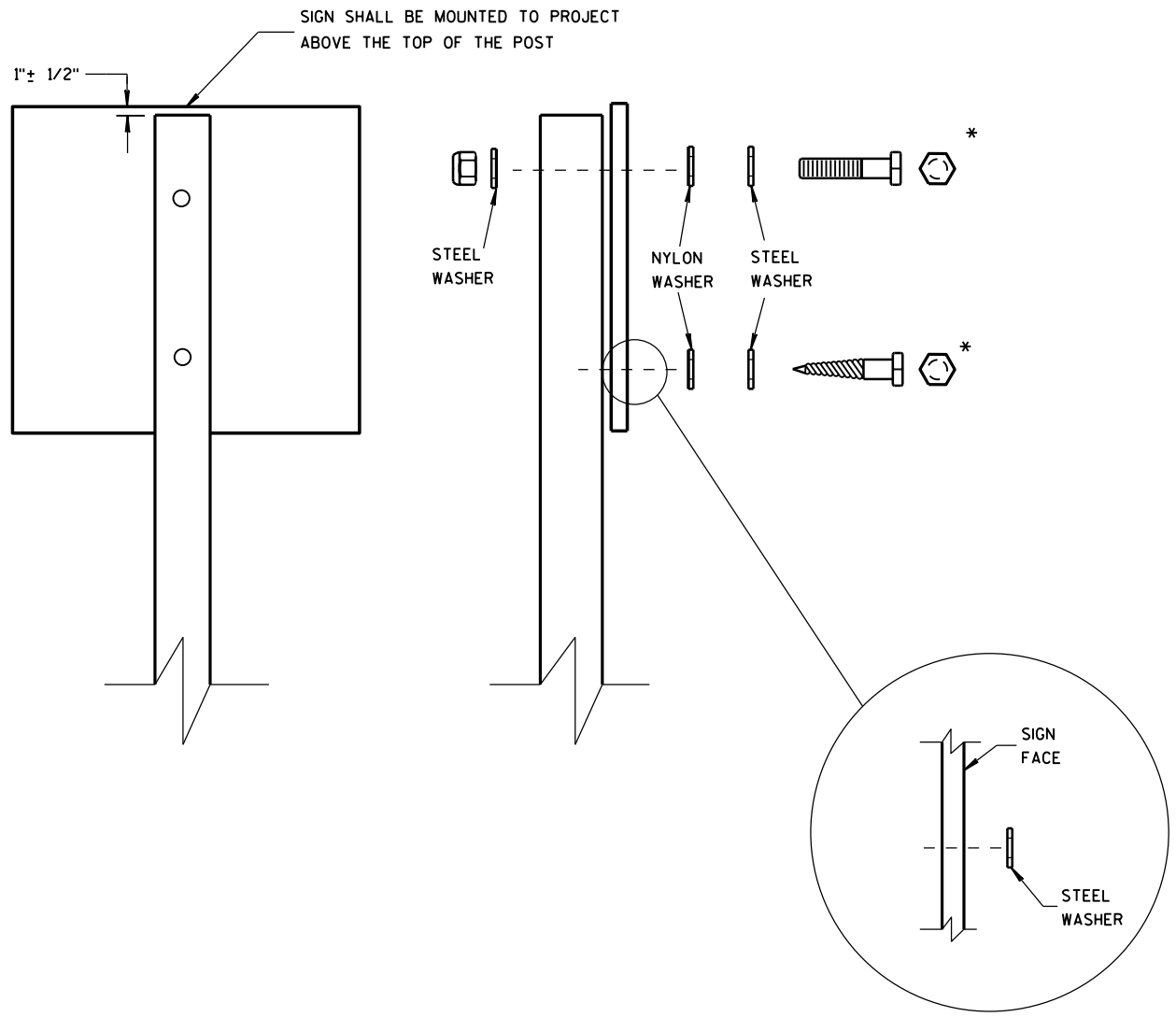
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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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.

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S.D.D. 15 D 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

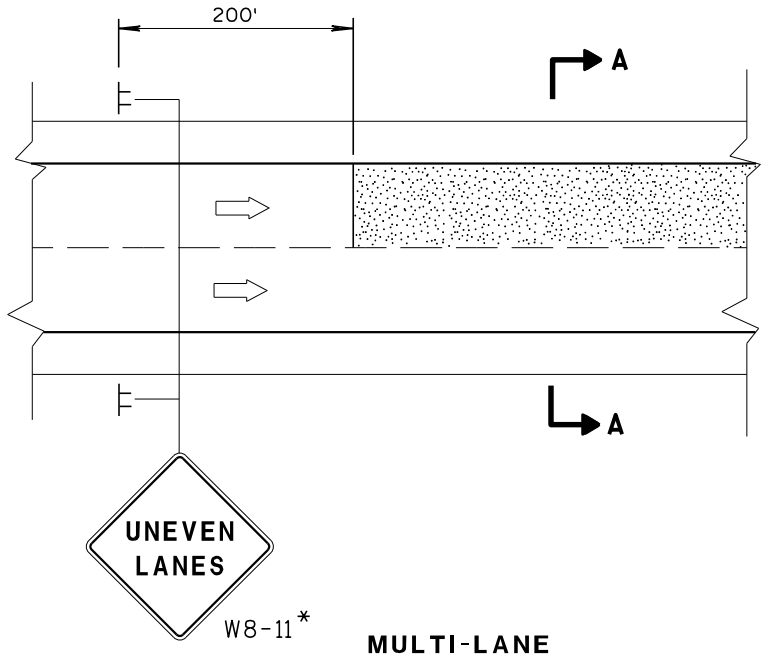
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

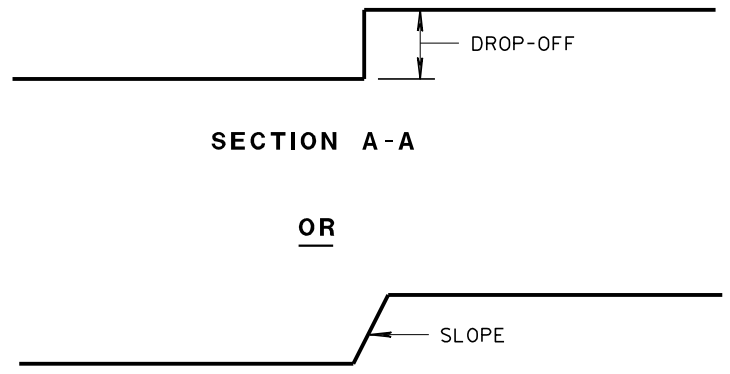
June 2017
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

FHWA



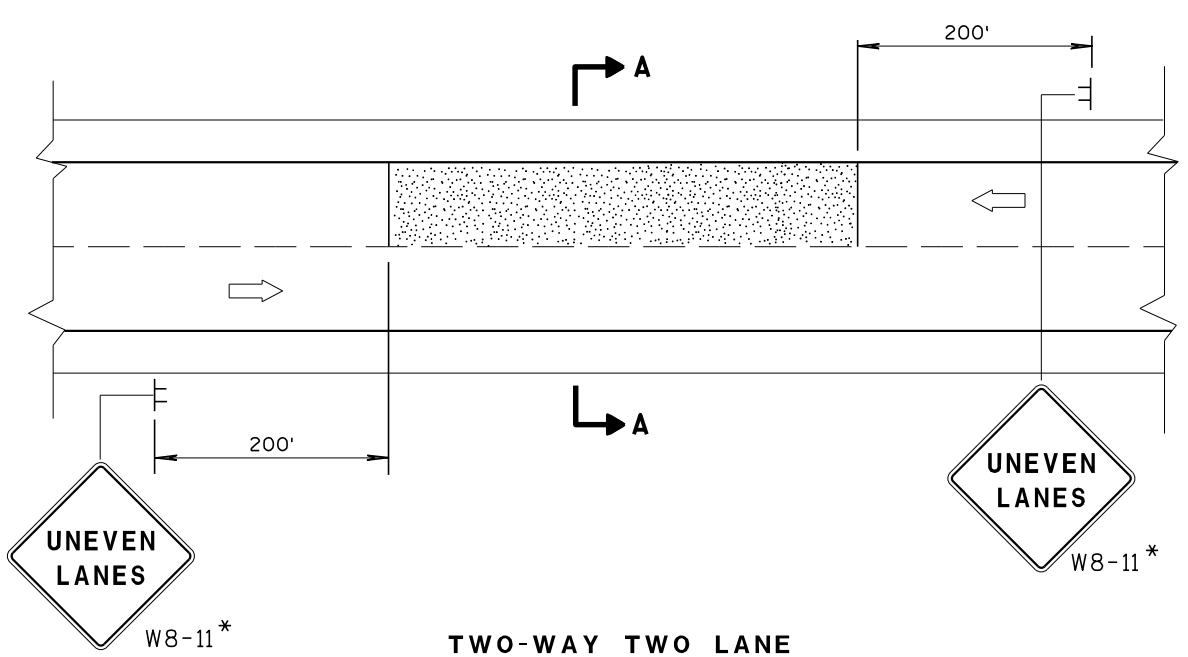
MULTI-LANE



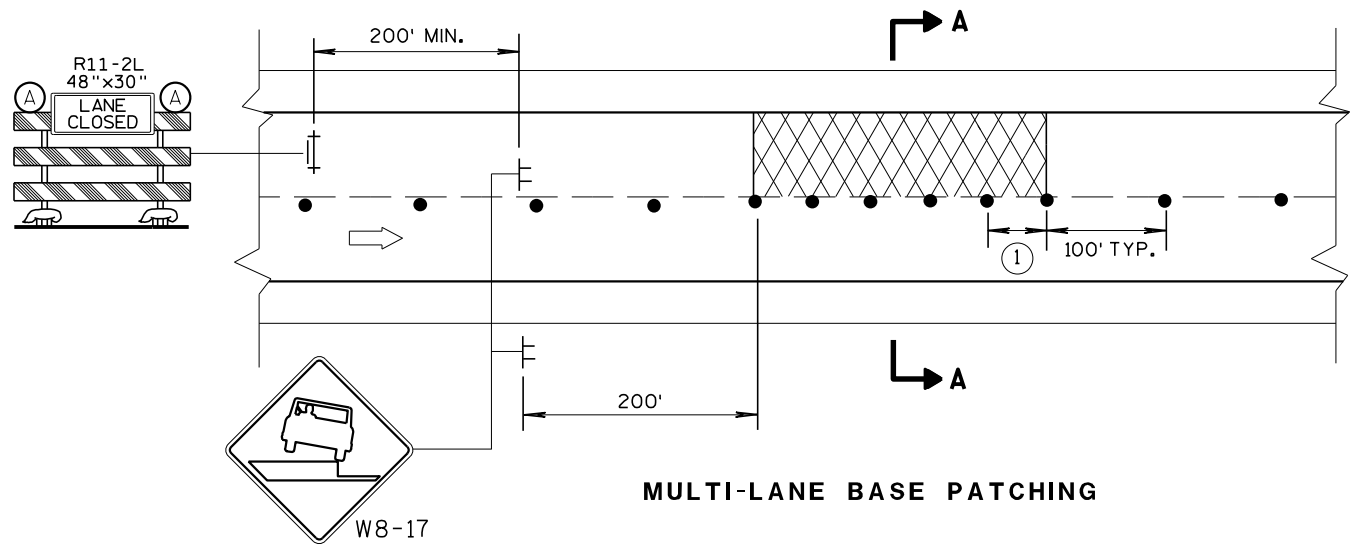
SECTION A-A

OR

SECTION A-A

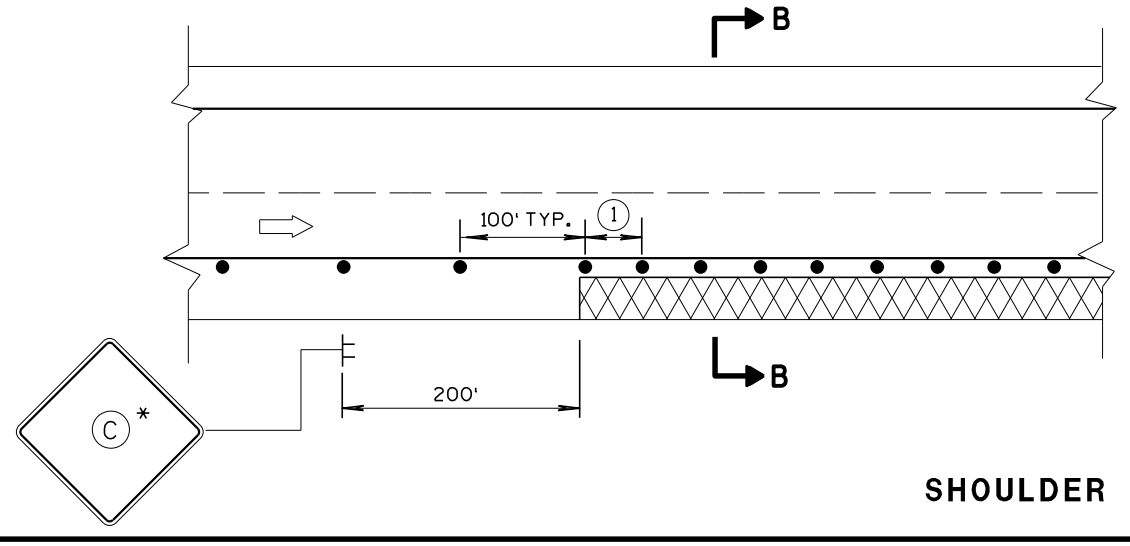


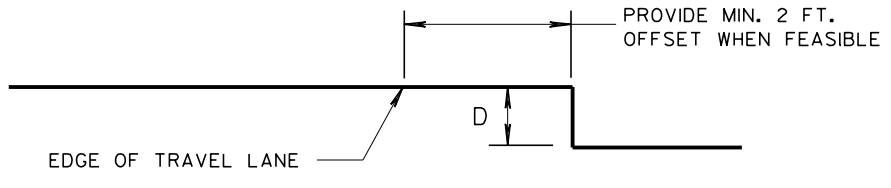
TWO-WAY TWO LANE



MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS





SECTION B-B

SHOULDER DROP-OFFS

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EACH ENTRANCE RAMP.

(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER WO8-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP-OFF W8-9A PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Andrew H — WORK ZONE EN
FHWA

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S.D.D. 15 D 39-2

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR SHIFTING RIGHT LANE - REVERSE FOR SHIFTING LEFT LANE.

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

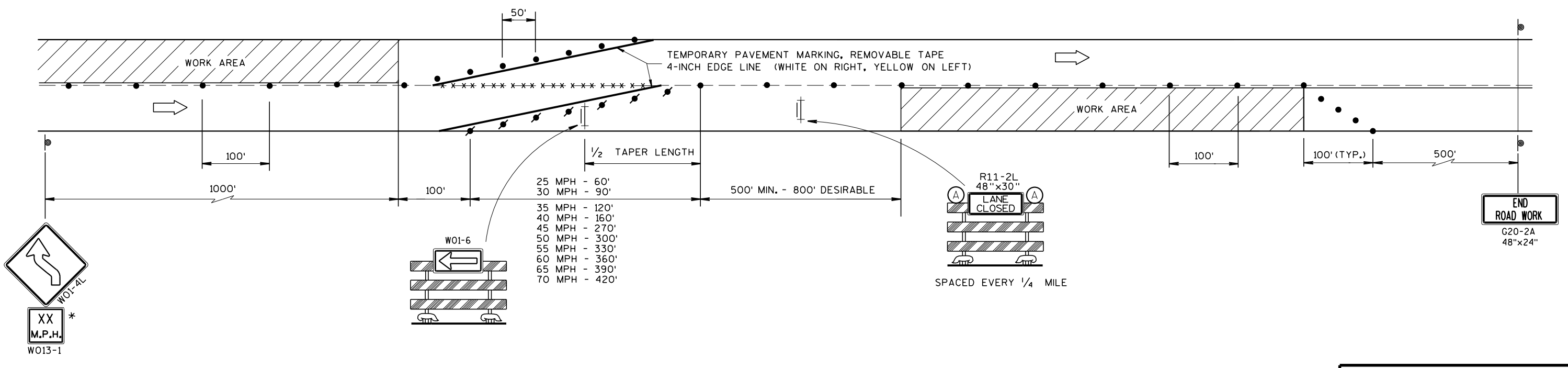
FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.



* USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED

LANE SHIFT MULTI-LANE DIVIDED OR ONE WAY ROAD

TRAFFIC CONTROL, LANE SHIFT, MULTI-LANE DIVIDED OR ONE WAY ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE
/S/ Andrew I
WORK ZONE E
FHWA

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S.D.D. 15 D 40-1

LEGEND

TYPE III BARRICADE WITH ATTACHED SIGN

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

DIRECTION OF TRAFFIC

CONCRETE BARRIER TEMPORARY PRECAST

TYPE "A" WARNING LIGHT (FLASHING)

WORK AREA

L, TAPER LENGTH (MPH)							
SPEED (MPH)	W, LATERAL OFFSET (FT)						
	10	11	12	13	14	15	16
45	450	495	540	585	630	675	720
50	500	550	600	650	700	750	800
55	550	605	660	715	770	825	880
60	600	660	720	780	840	900	960
65	650	715	780	845	910	975	1040
70	700	770	840	910	980	1050	1120



OR



LOCATED 3000 FEET BEYOND THE "ROAD WORK 1 MILE" (W20-1F) SIGN



R2-1
48"X60"

OR



R2-1
48"X60"

(BLACK AND WHITE) LOCATED 700 FEET BEYOND THE W03-5 SIGN

IF THE REGULATORY SPEED HAS BEEN REDUCED, A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. PLACE A SPEED LIMIT SIGN INCORPORATED A MINIMUM OF EVERY 3 MILES.

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT RIGHT - REVERSE FOR SHIFTING LEFT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

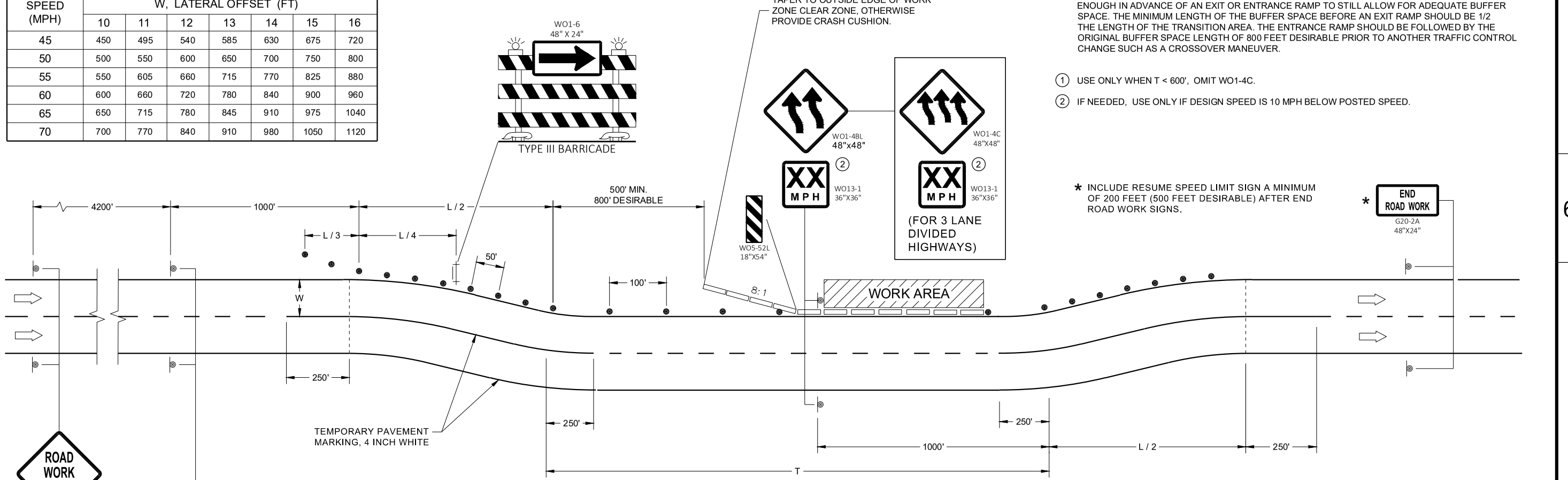
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) USE ONLY WHEN T < 600', OMIT WO1-4C.

(2) IF NEEDED, USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.



MULTIPLE LANE SHIFT MULTILANE DIVIDED ROAD

TRAFFIC CONTROL
MULTIPLE LANE SHIFT
MULTILANE DIVIDED ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
424

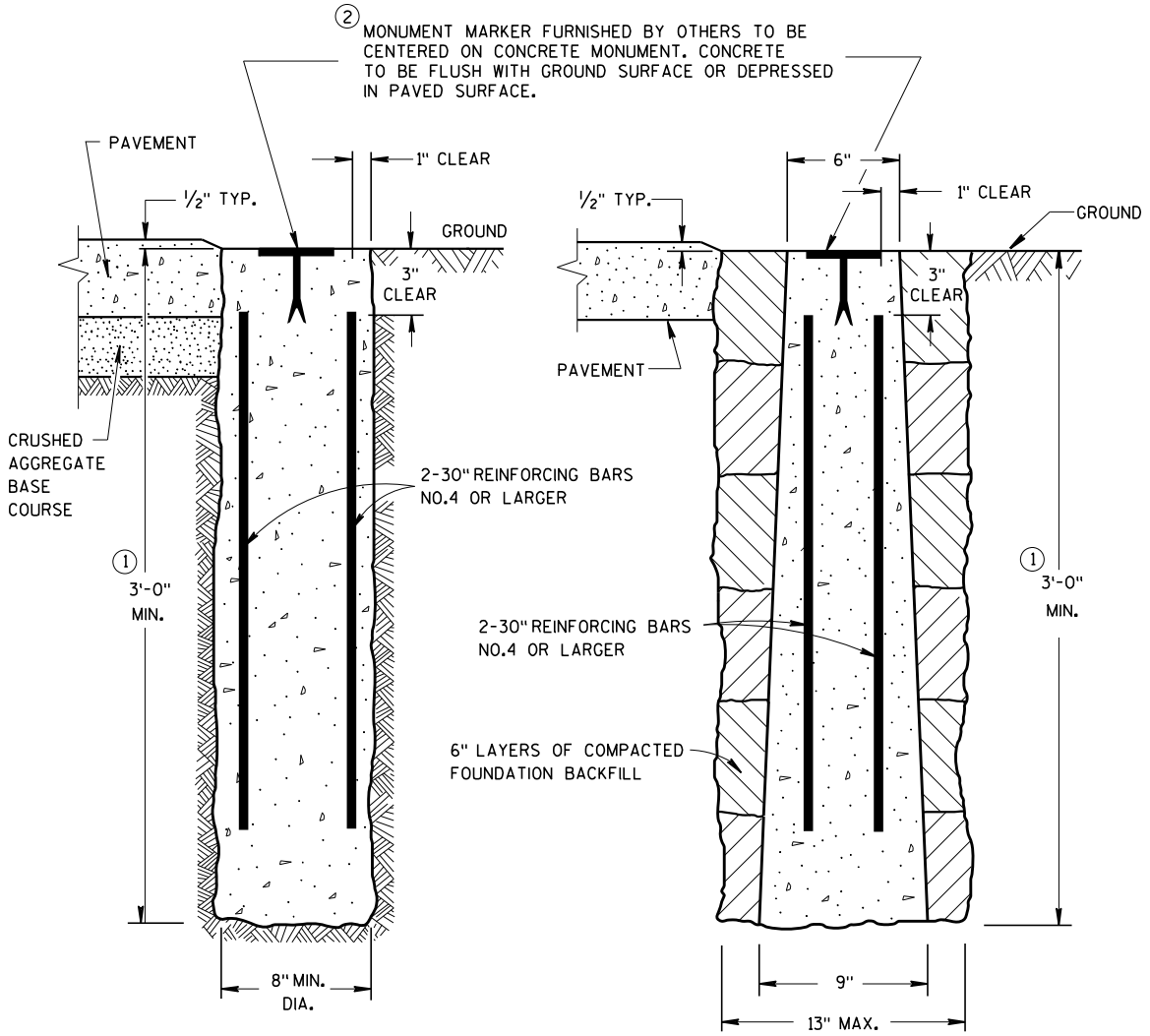
FHWA

6

SDD 15D41 - 01

6

SDD 15D41 - 01

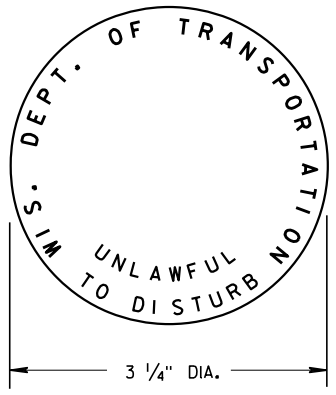


CAST-IN-PLACE

PRECAST

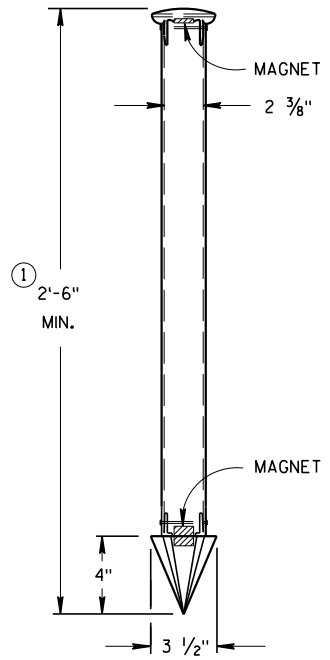
CONCRETE MONUMENTS

TYPE A



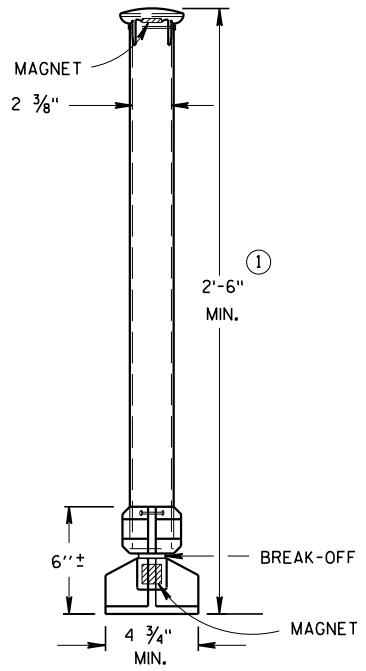
② **WIS DOT MONUMENT MARKER LOGO**

FOR TYPES "A", "C", & "D"



TYPE C

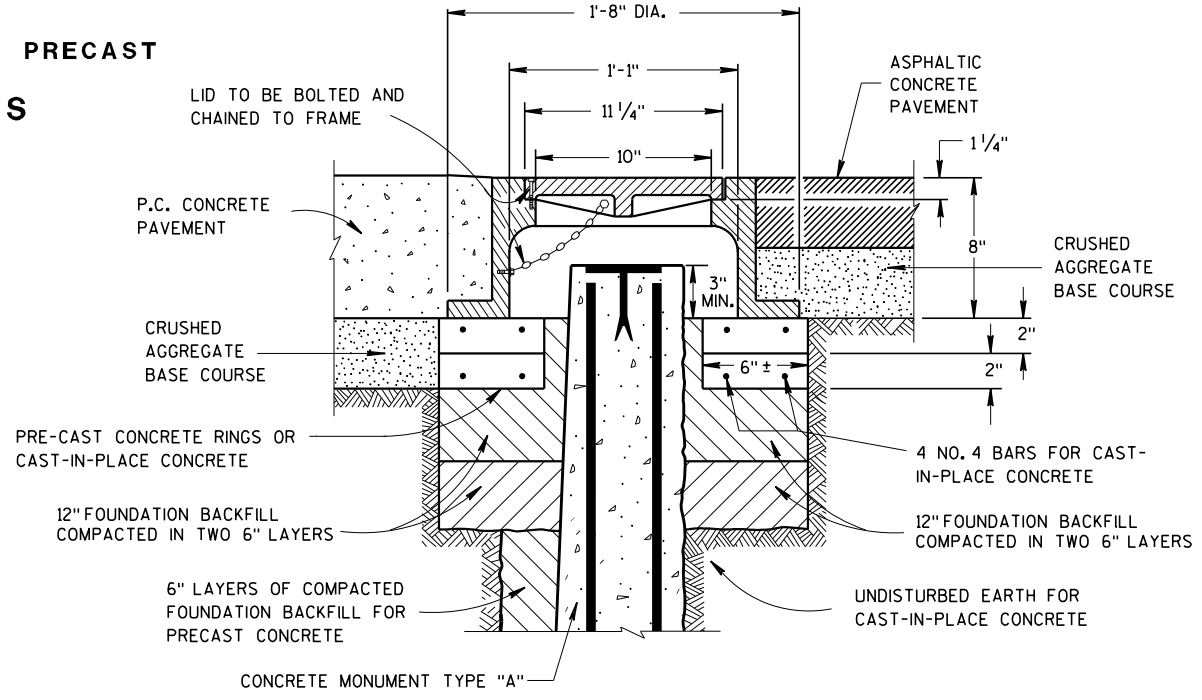
DRIVE-IN MONUMENT



TYPE D
NON-DRIVEN
BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT 95 LBS)

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.

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

PERMANENT MAGNETS SHALL BE INSERTED NEAR THE TOP AND BOTTOM OF ALL ALUMINUM MONUMENTS SO THE MONUMENT CAN EASILY BE DETECTED BY A METAL DETECTOR.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

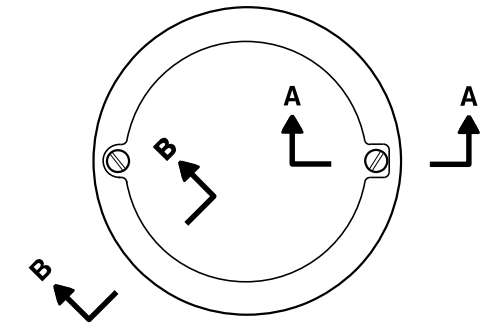
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

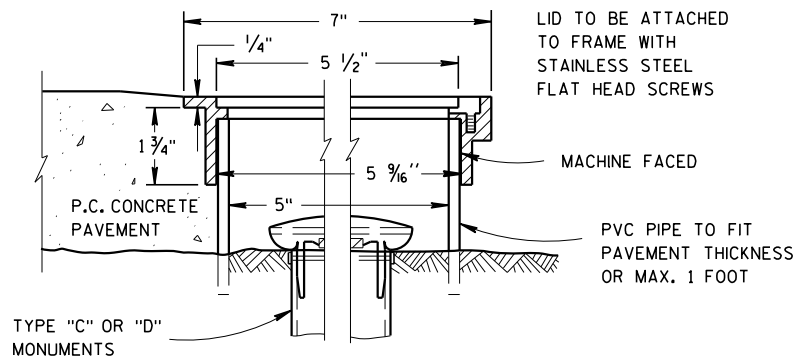
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.



TOP VIEW



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

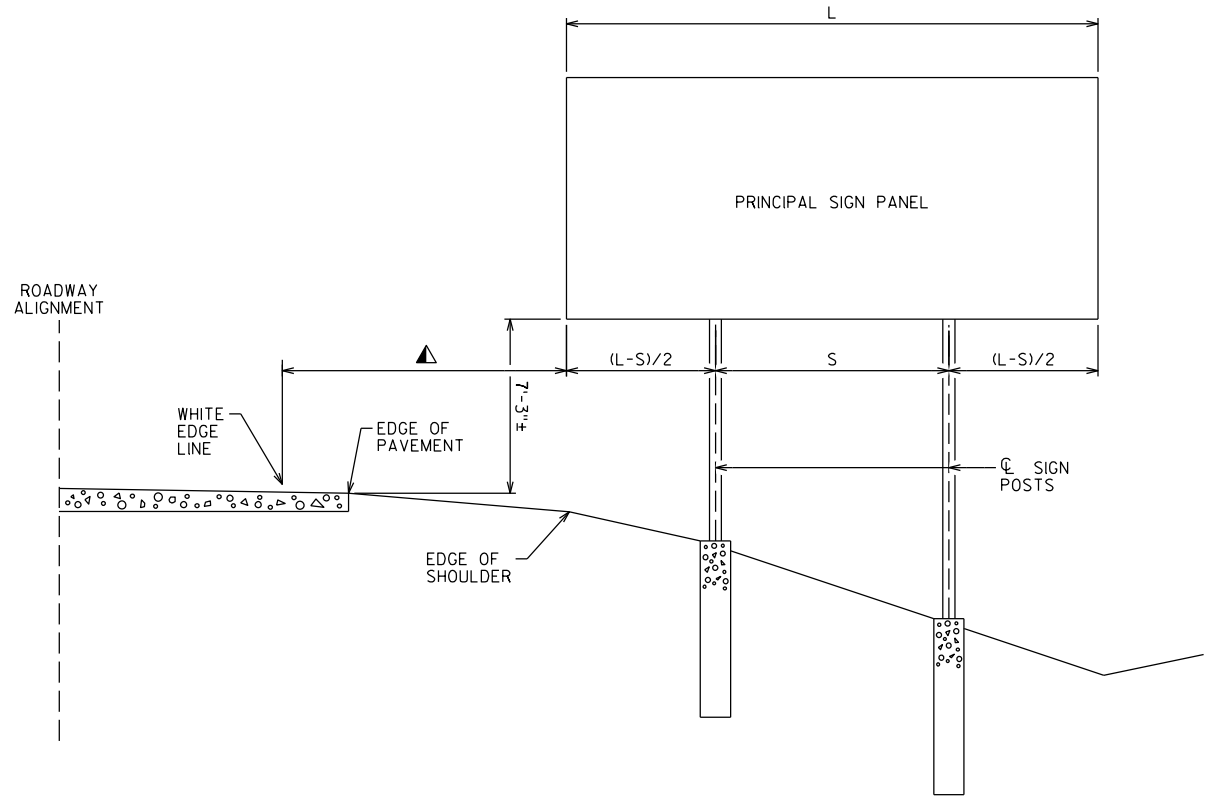
(APPROXIMATE WEIGHT 2 LBS)
(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MONUMENTS AND COVERS

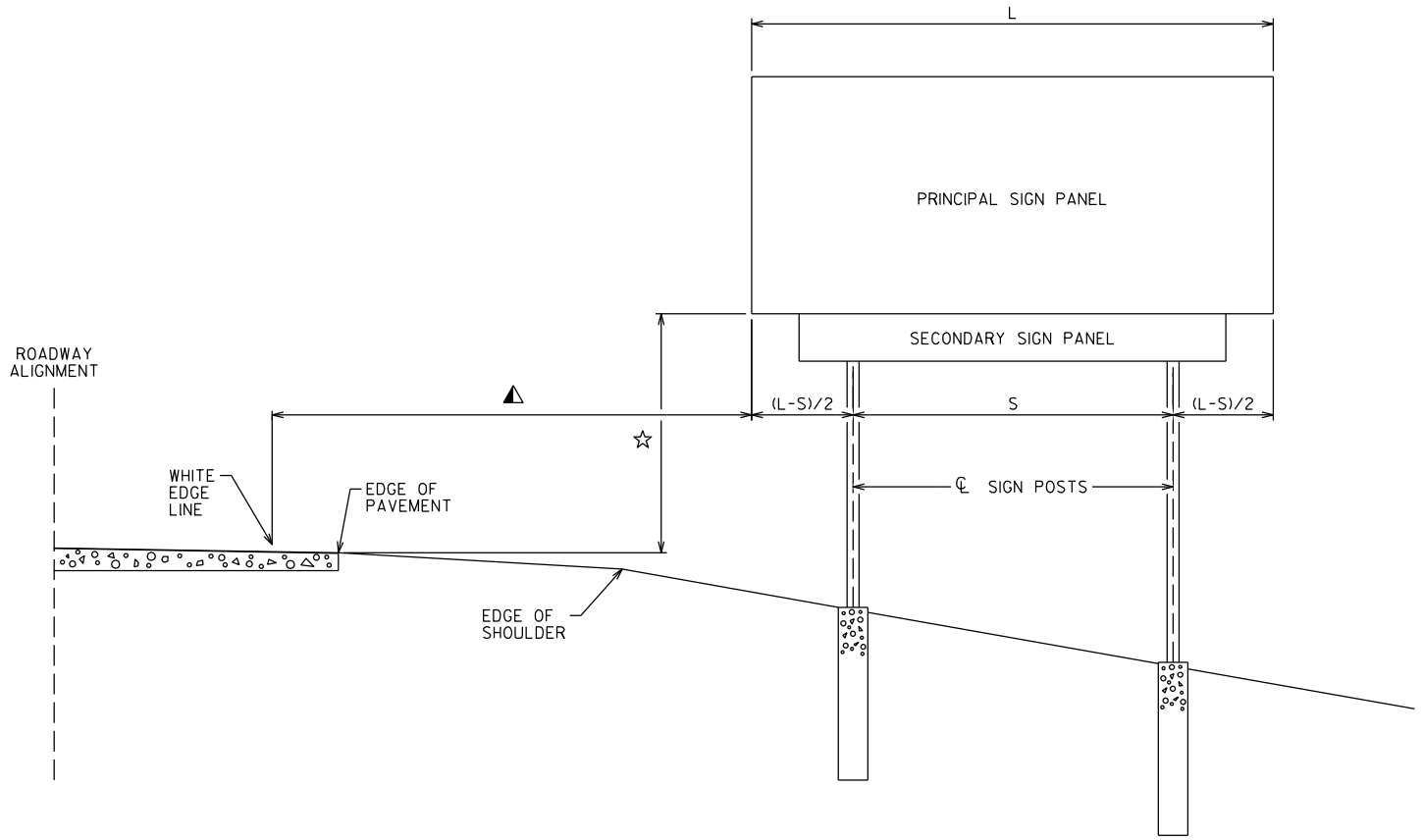
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Raymond A. [illegible] — CHIEF SURVEYING AND M[illegible] ENGINEER
FHWA

6



INSTALLATION WITHOUT SECONDARY SIGN



INSTALLATION WITH SECONDARY SIGN

TYPE 1 SIGN INSTALLATION NOTES:

FOR A 2-POST INSTALLATION, "S" EQUALS 3L/5, BUT SHALL NOT BE LESS THAN 6'-0".

FOR A 3-POST INSTALLATION, "S" EQUALS 5L/7, BUT SHALL NOT BE LESS THAN 12'-0". THE SPACING BETWEEN ANY TWO POSTS SHALL NOT BE LESS THAN 6'-0".

◭ UNLESS NOTED IN THE PLANS, THE SIGN OFFSET DISTANCE SHALL BE A MINIMUM OF 17'-6" FROM THE WHITE EDGE LINE, DESIRABLE 30'-0".

THE ± TOLERANCE SHOWN ON THIS SHEETS IS 3".

THE VERTICAL SIGN HEIGHT CLEARANCES SHOWN ON THIS SHEET ARE MEASURED FROM THE BOTTOM OF THE SIGN PANEL TO THE NEAR EDGE OF PAVEMENT.

☆ THE VERTICAL CLEARANCE SHALL BE 8'-3"± WHEN THE SECONDARY SIGN HEIGHT IS 3'-0" OR LESS. FOR SECONDARY SIGN HEIGHTS LARGER THAN 3'-0", THE VERTICAL CLEARANCE TO THE BOTTOM OF THE SECONDARY SIGN PANEL SHALL BE 5'-3"±.

POST LENGTHS SHOWN IN THE MISCELLANEOUS QUANTITIES ARE ESTIMATED LENGTHS. THE CONTRACTOR SHALL VERIFY POST LENGTHS AT THE TIME OF FINAL GRADING.

REFER TO THE TRAFFIC ENGINEERING OPERATIONS AND SAFETY MANUAL FOR FURTHER GUIDANCE ON MINIMUM VERTICAL CLEARANCE REQUIREMENTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE BTO TYPE I SIGNS

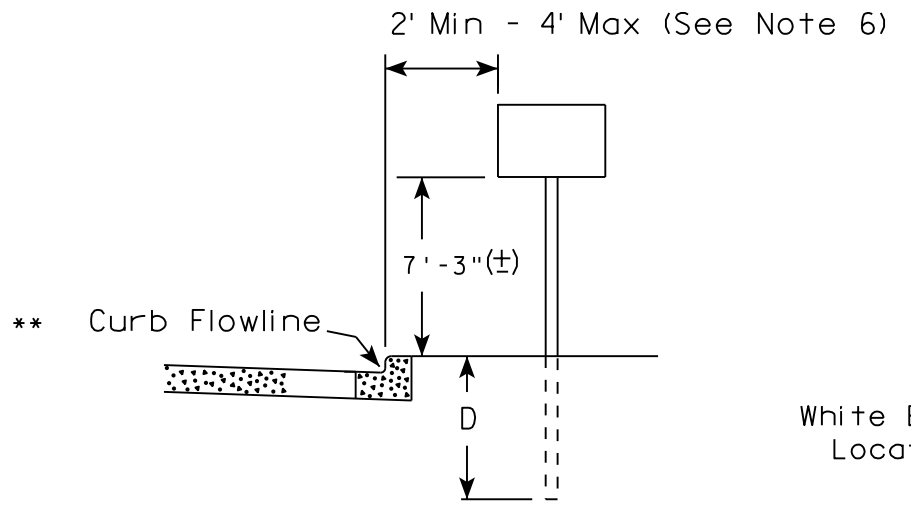
DRAWN BY | PLANS CK'D.

TYPICAL TYPE I SIGN INSTALLATION

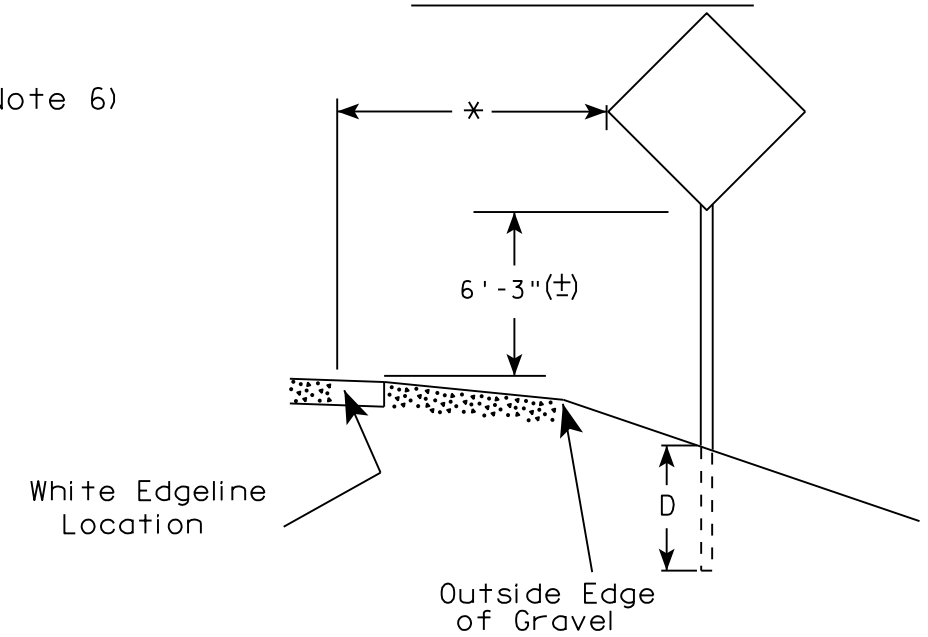
SHEET A4-1.10

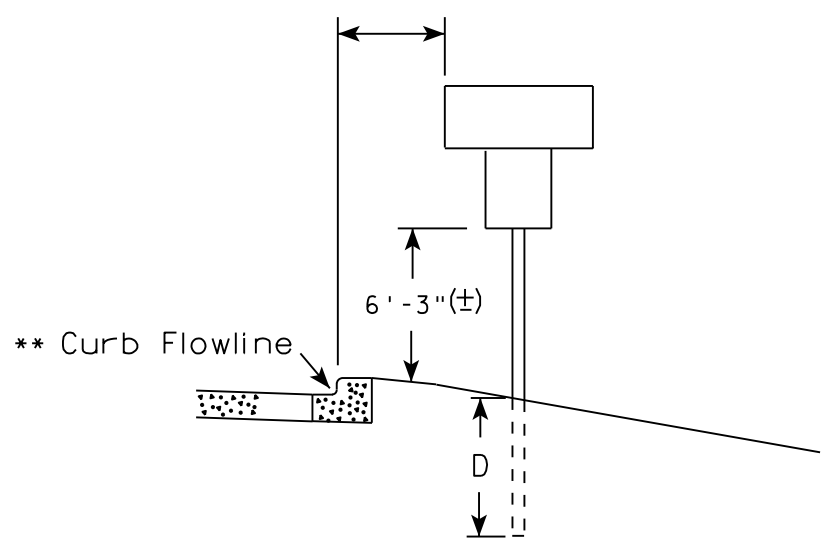
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 426	E

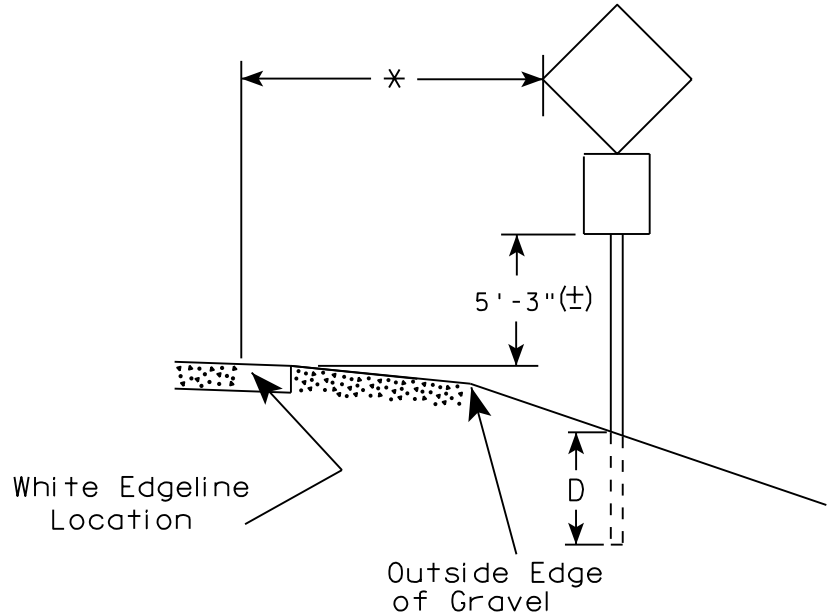
URBAN AREA



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" (±).

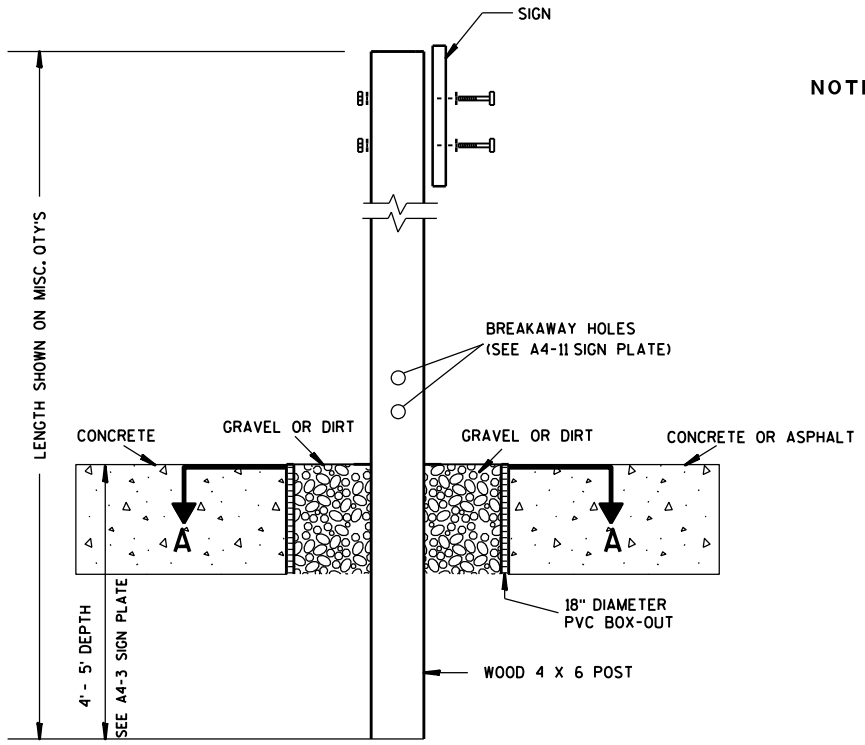
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

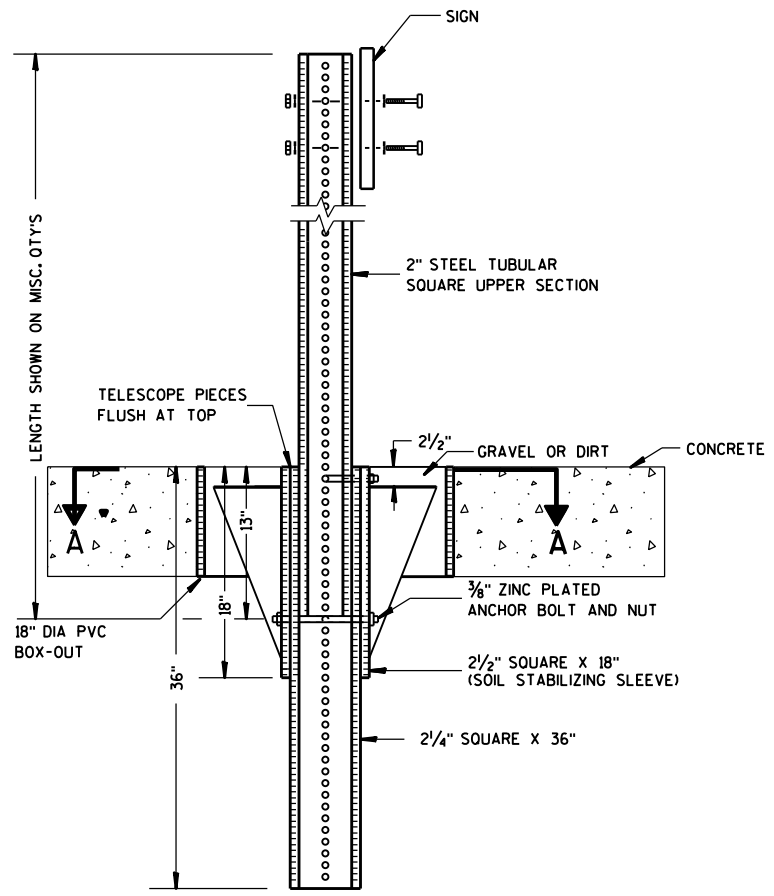
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 427	E



ELEVATION VIEW

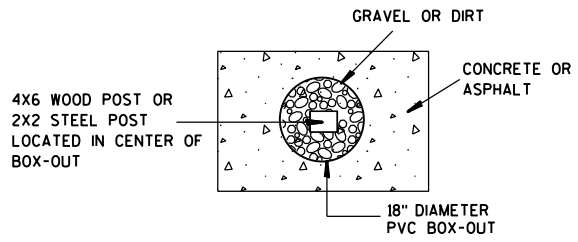
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

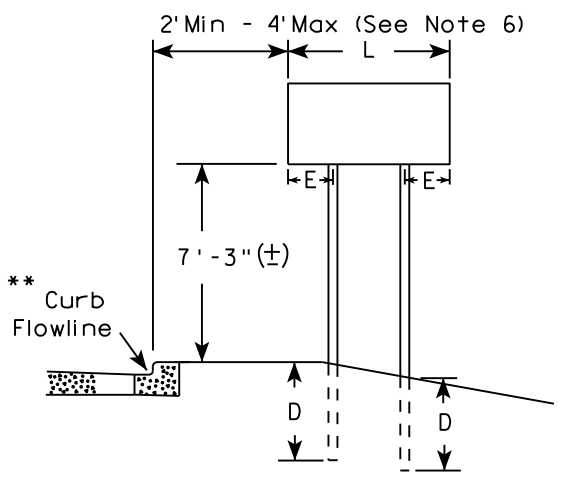
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

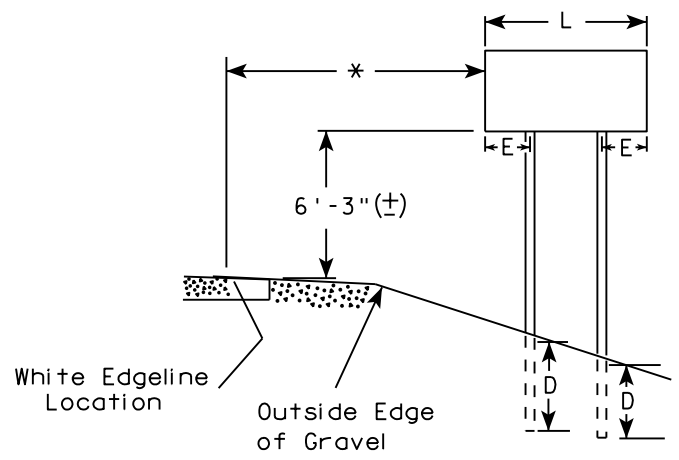
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

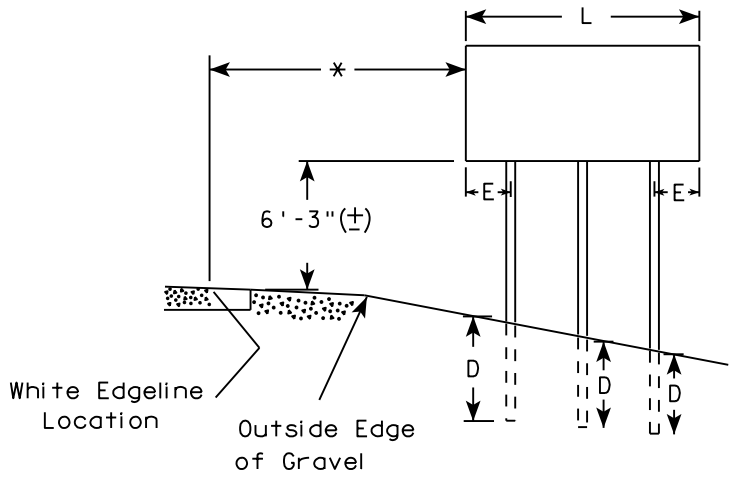
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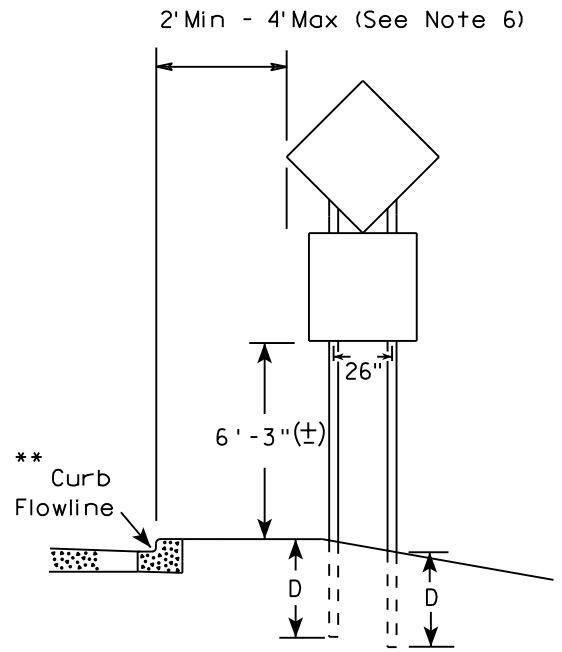
URBAN AREA



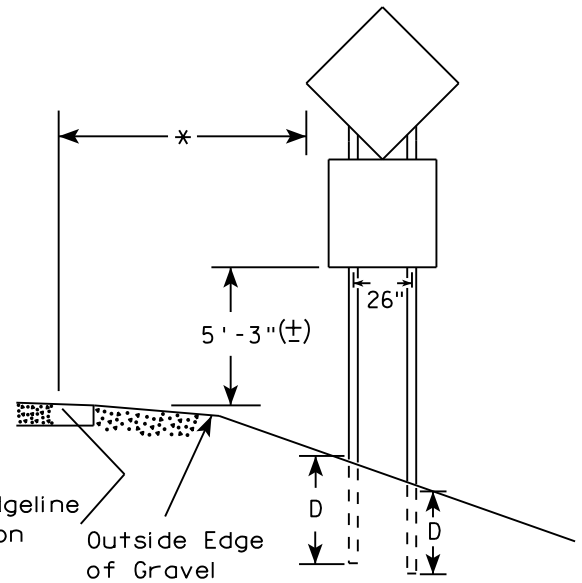
RURAL AREA (See Note 3)







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

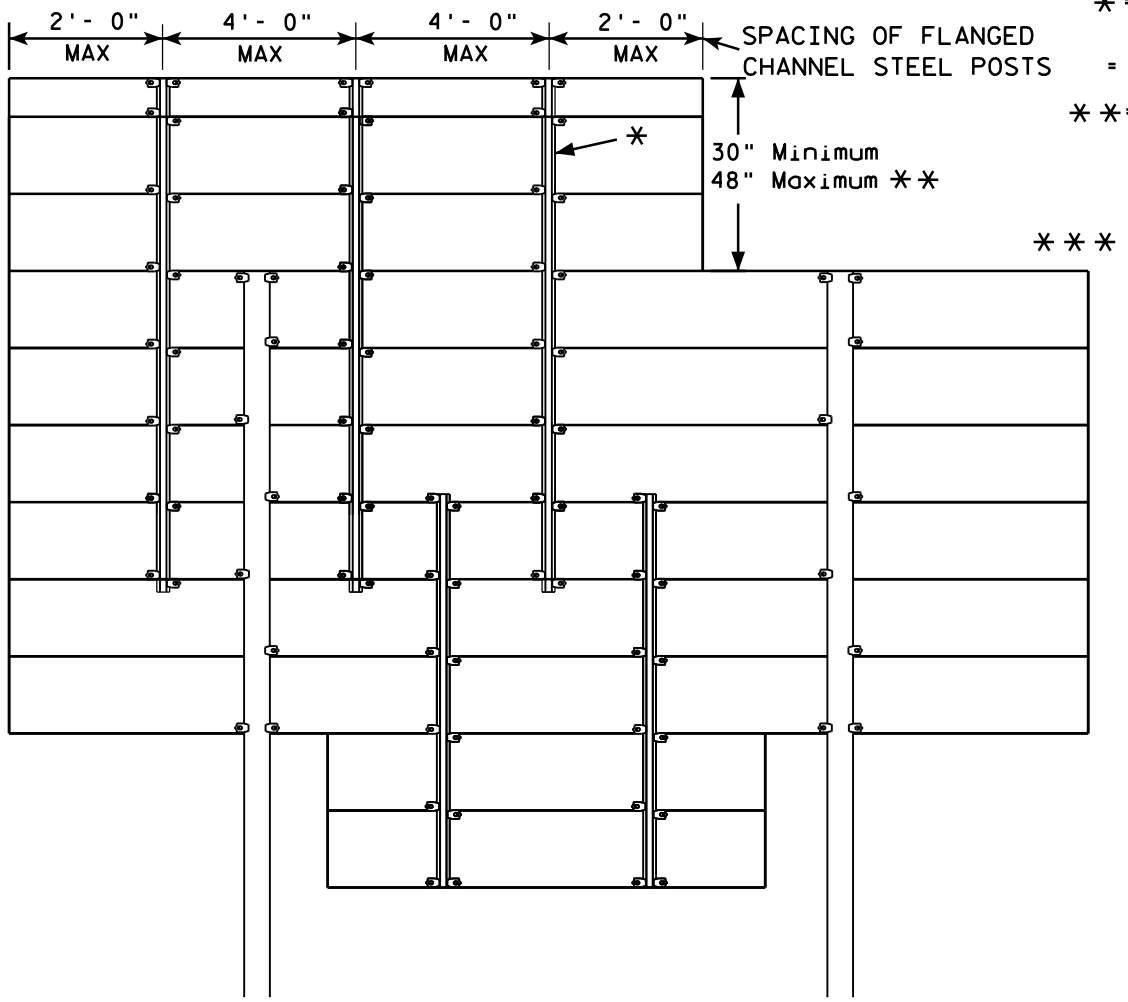
DATE 8/21/17 PLATE NO. A4-4.15

7

7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 429 | E

GROUND MOUNTED SIGN

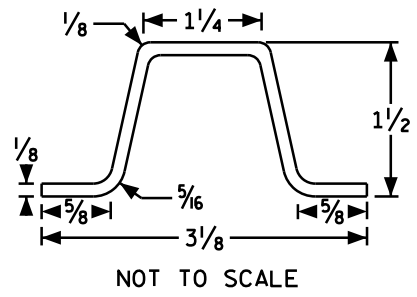


* =2.00 lb/ft FLANGED CHANNEL, MIN. YIELD STRENGTH = 60,000 PSI (GRADE 60) GALVANIZED

** =FOR 48" HEIGHT PANELS ON OVERHEAD STRUCTURES, ENTIRE SIGN SHALL BE CENTERED VERTICALLY ABOUT THE DEPTH OF THE TRUSS.

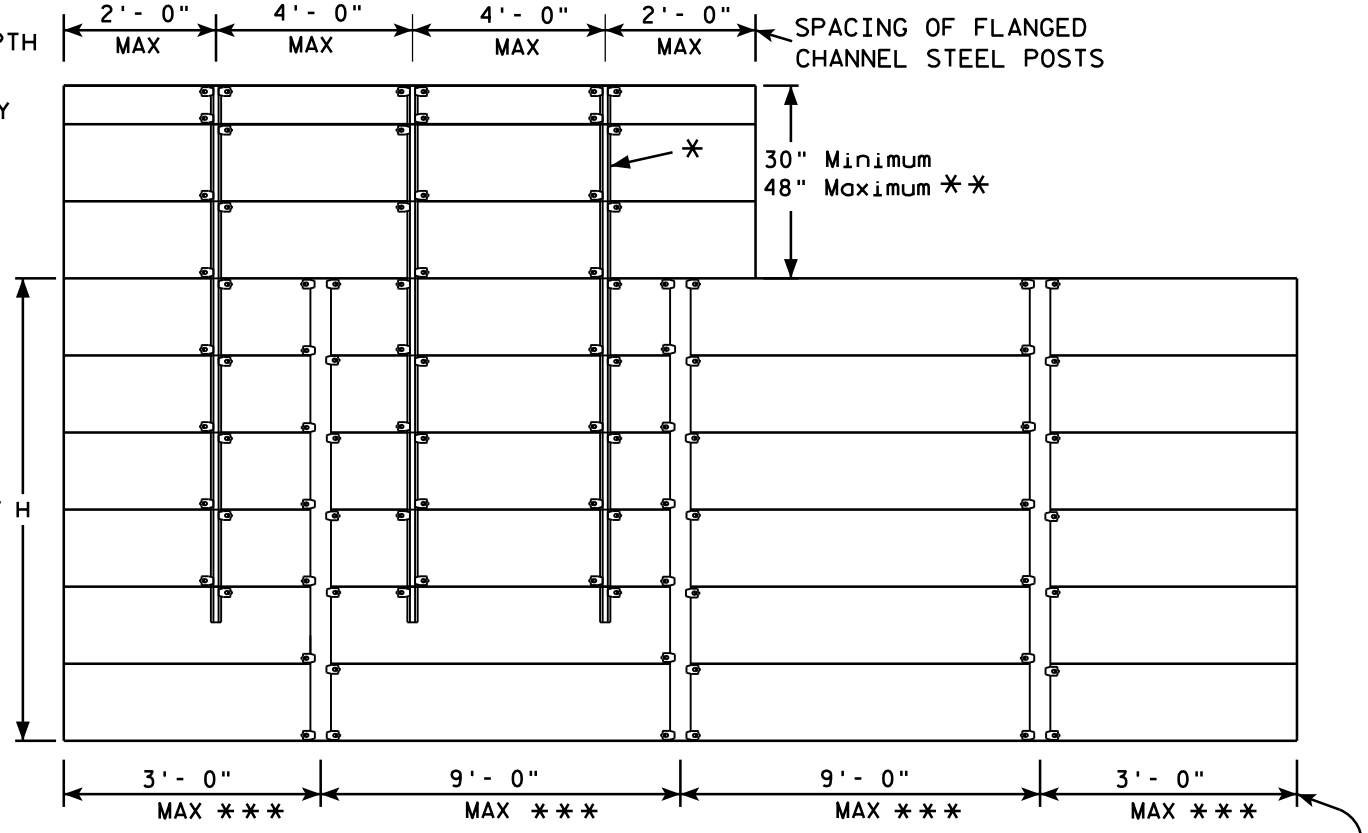
*** THESE SPACING DISTANCES SHALL ONLY BE USED WHEN THE MAIN SIGN HAS A MAXIMUM HEIGHT (DIMENSION H) OF 16 FT OR LESS. FOR SIGNS WITH A HEIGHT OF GREATER THAN 16 FT, STRUCTURAL CALCULATIONS SHALL BE PERFORMED.

FLANGE CHANNEL DETAIL



NOT TO SCALE

SIGN BRIDGE MOUNTED SIGN



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.

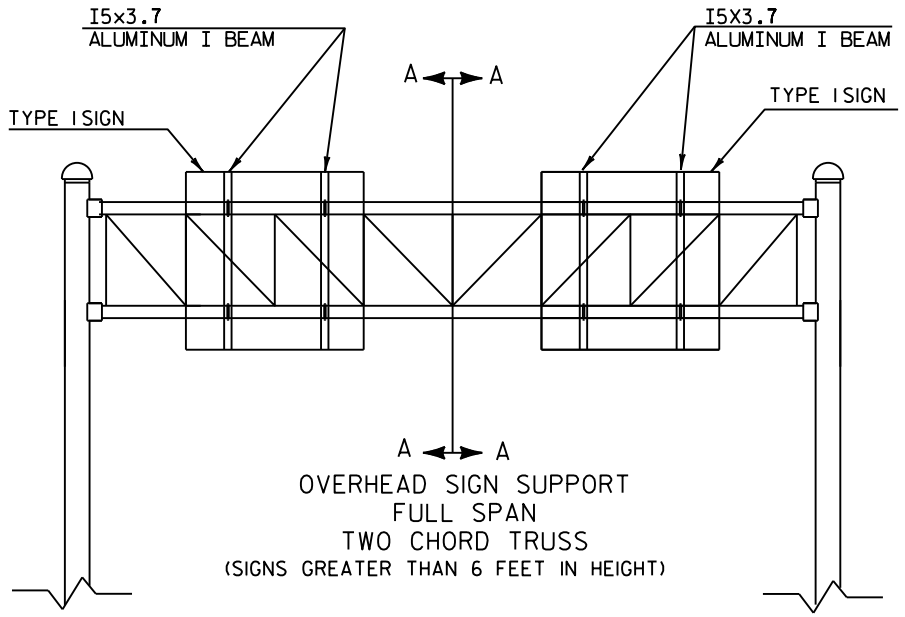
ATTACHMENT OF GUIDE SIGNS TO SUPPORTS

WISCONSIN DEPT OF TRANSPORTATION

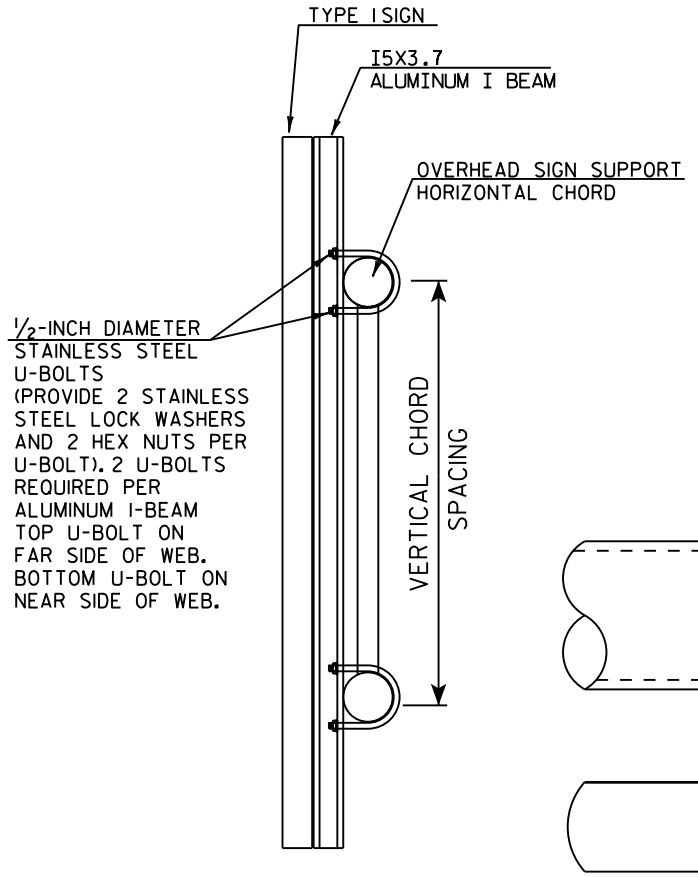
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/05/13 PLAT 430 A4-6.12

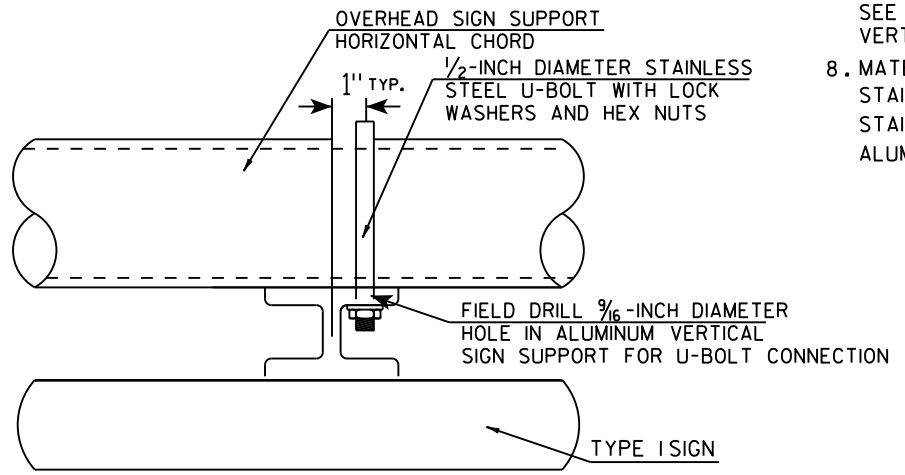
PROJECT NO:				SHEET NO:	E



OVERHEAD SIGN SUPPORT
FULL SPAN
TWO CHORD TRUSS
(SIGNS GREATER THAN 6 FEET IN HEIGHT)



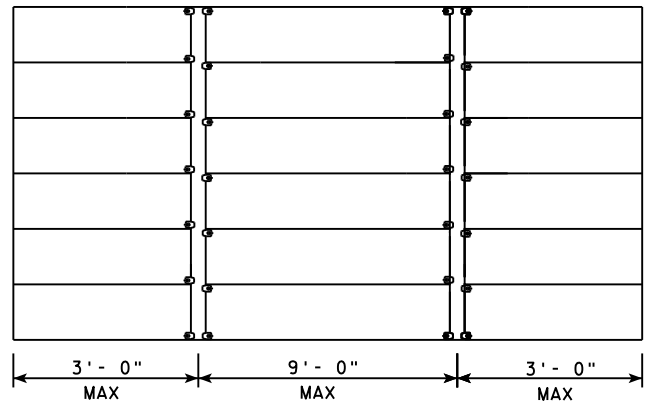
CUT SECTION A-A



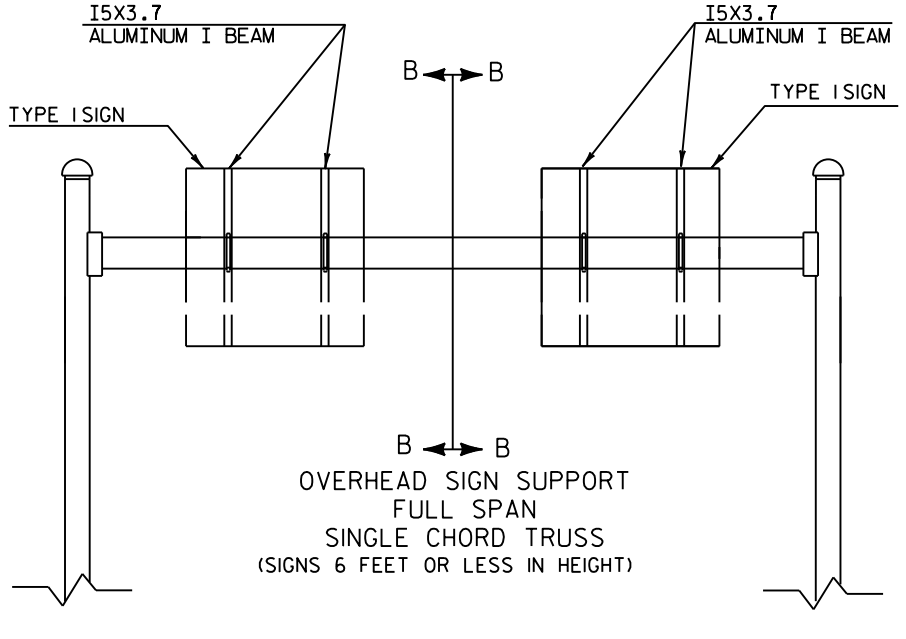
TYPICAL SIGN CONNECTION FOR
TWO CHORD TRUSS
PLAN VIEW

GENERAL NOTES

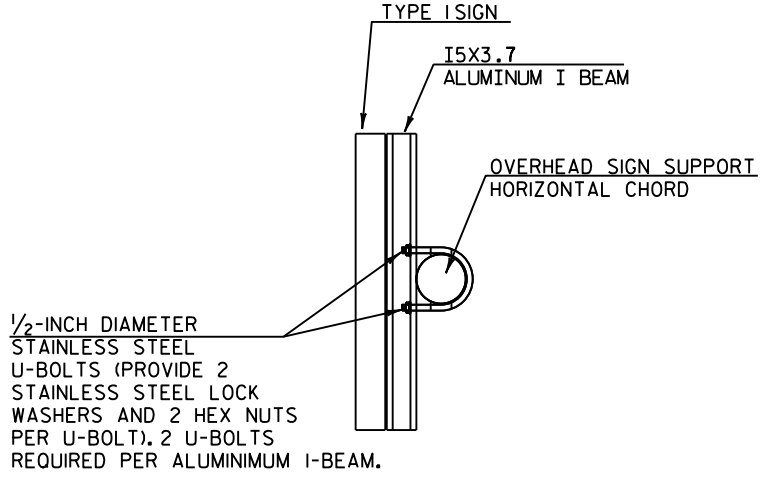
1. USE STAINLESS STEEL U-BOLTS, WASHERS, AND NUTS.
2. USE CLIPS ON EVERY EXTRUDED PANEL JOINT PER SIGN PLATE A4-6.
3. USE ALUMINUM VERTICAL SIGN SUPPORT BEAMS HAVING A 5 INCH BEAM DEPTH AND WEIGHT OF 3.7 LBS PER FOOT.
4. U-BOLTS SHALL BE STAINLESS STEEL AND MANUFACTURED TO THE PROPER SIZE TO FIT THE 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.



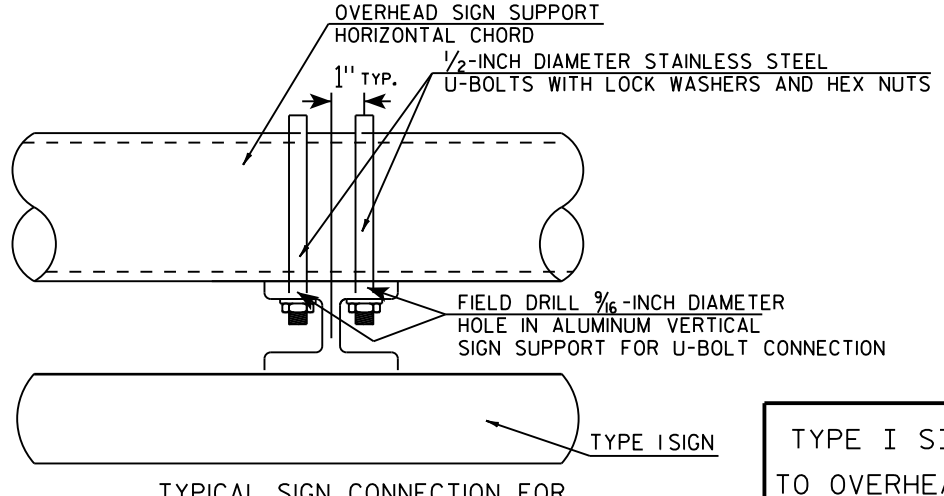
SPACING OF I5X3.7 ALUMINUM
VERTICAL SIGN SUPPORT



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

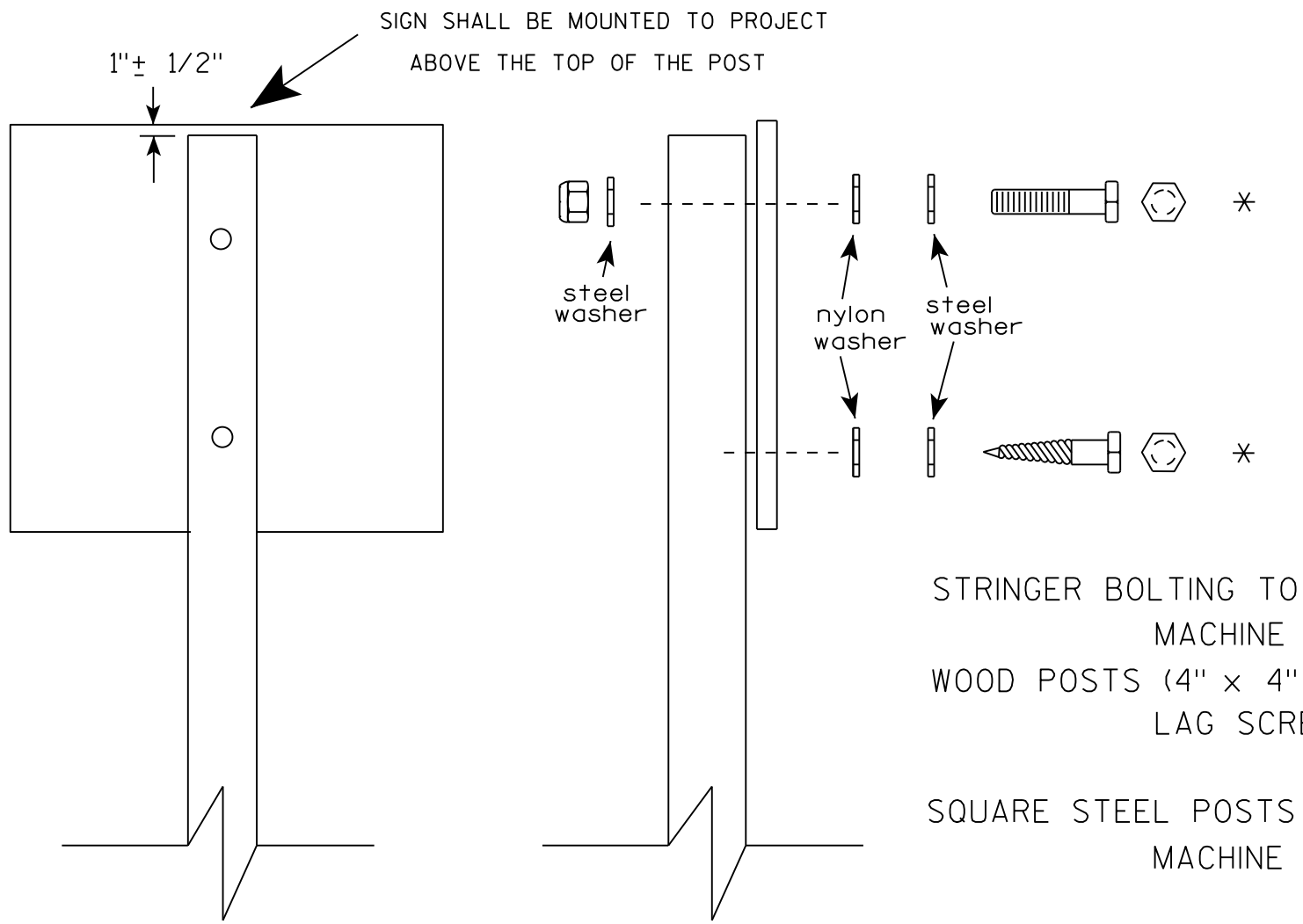
WISCONSIN DEPT OF TRANSPORTATION

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

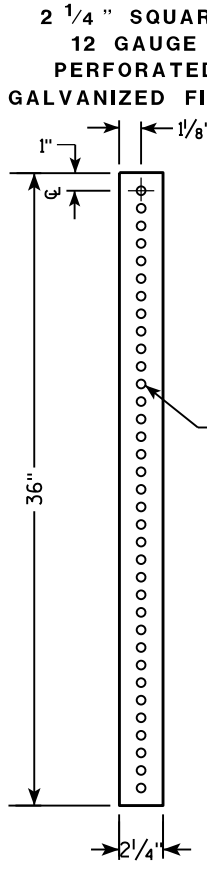
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PROJECT NO: SHEET NO: E

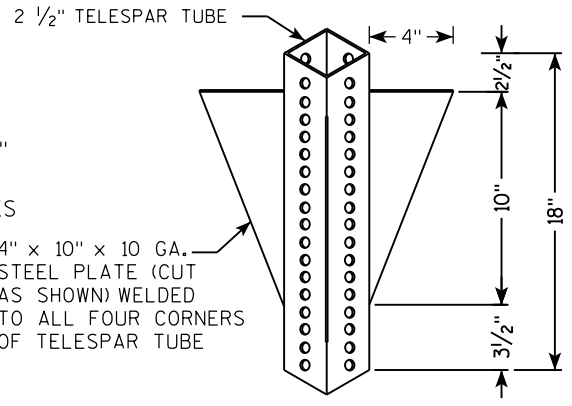
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

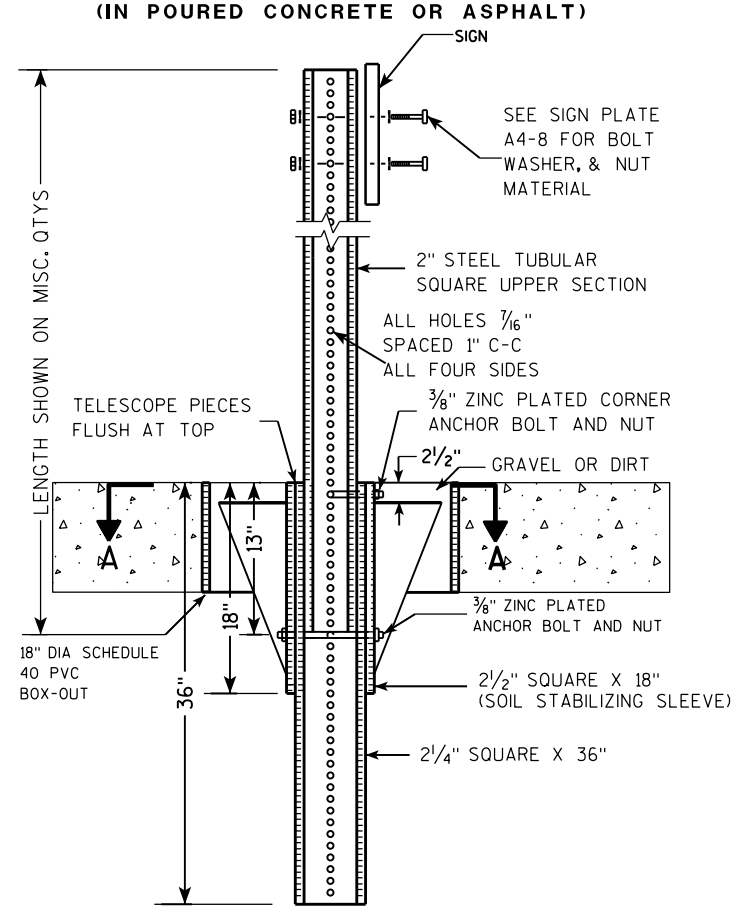
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



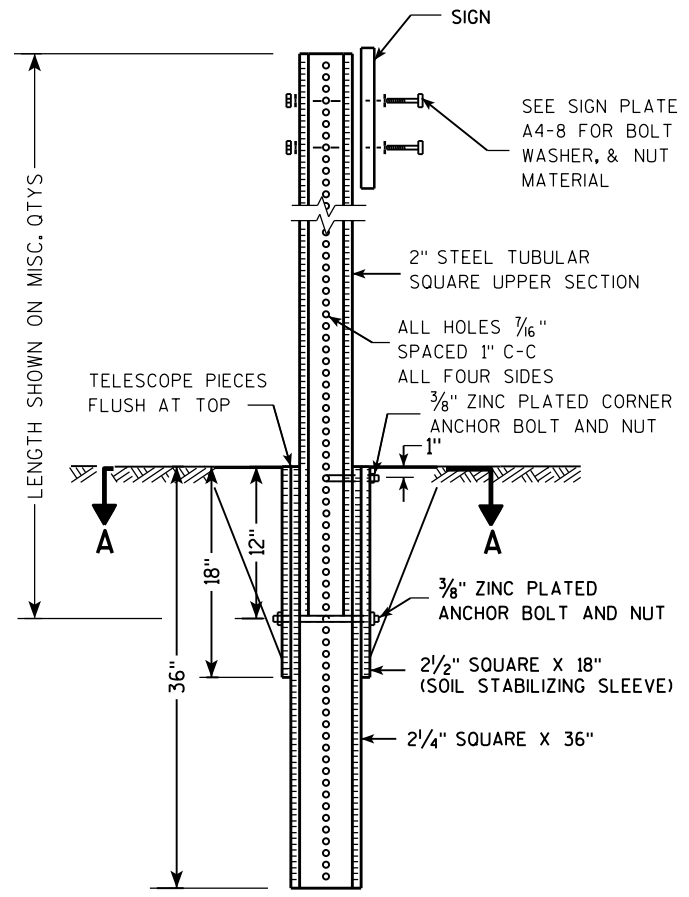
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

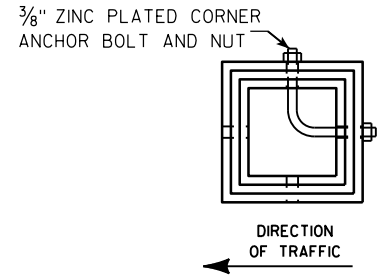


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

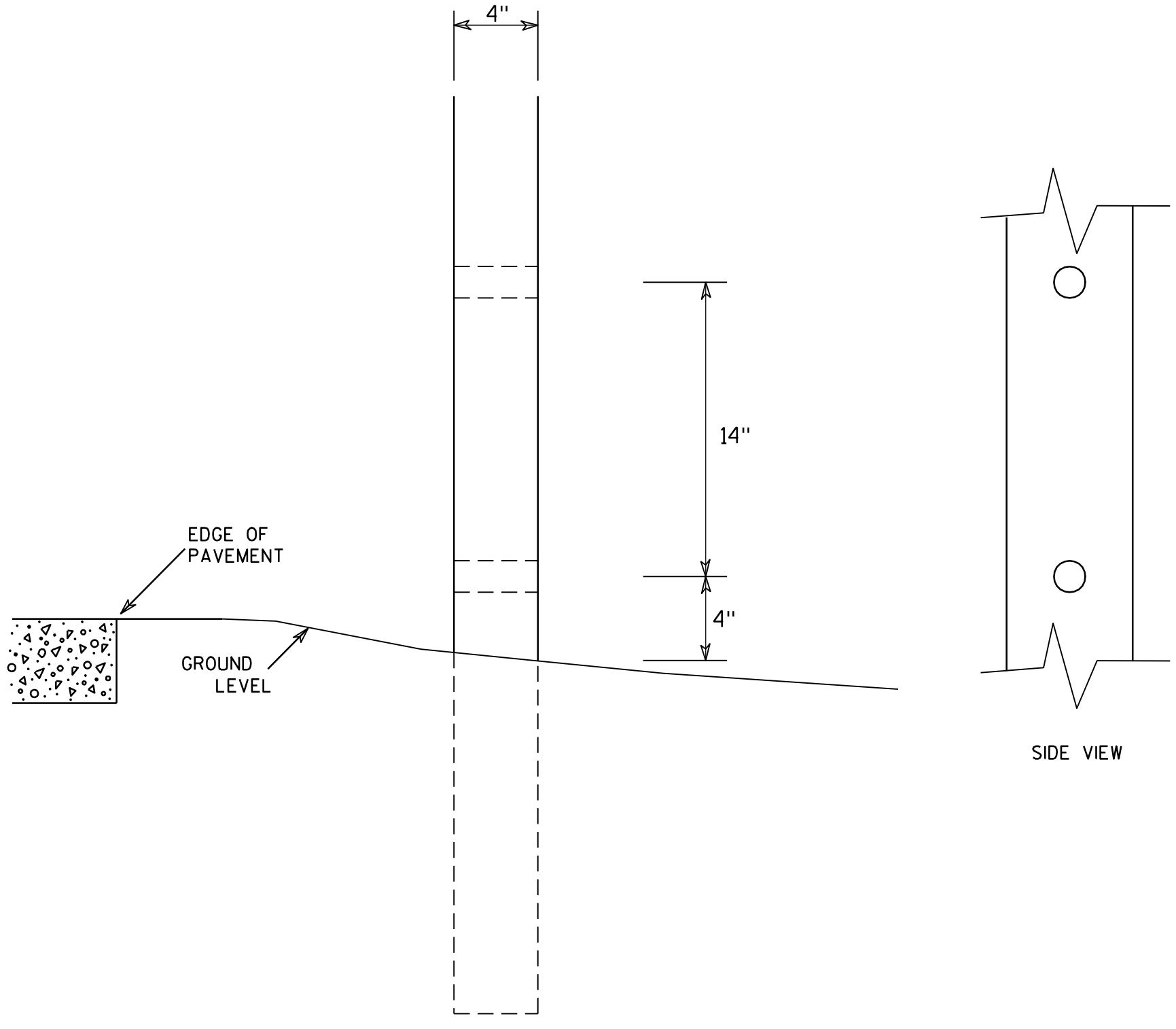
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 433 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

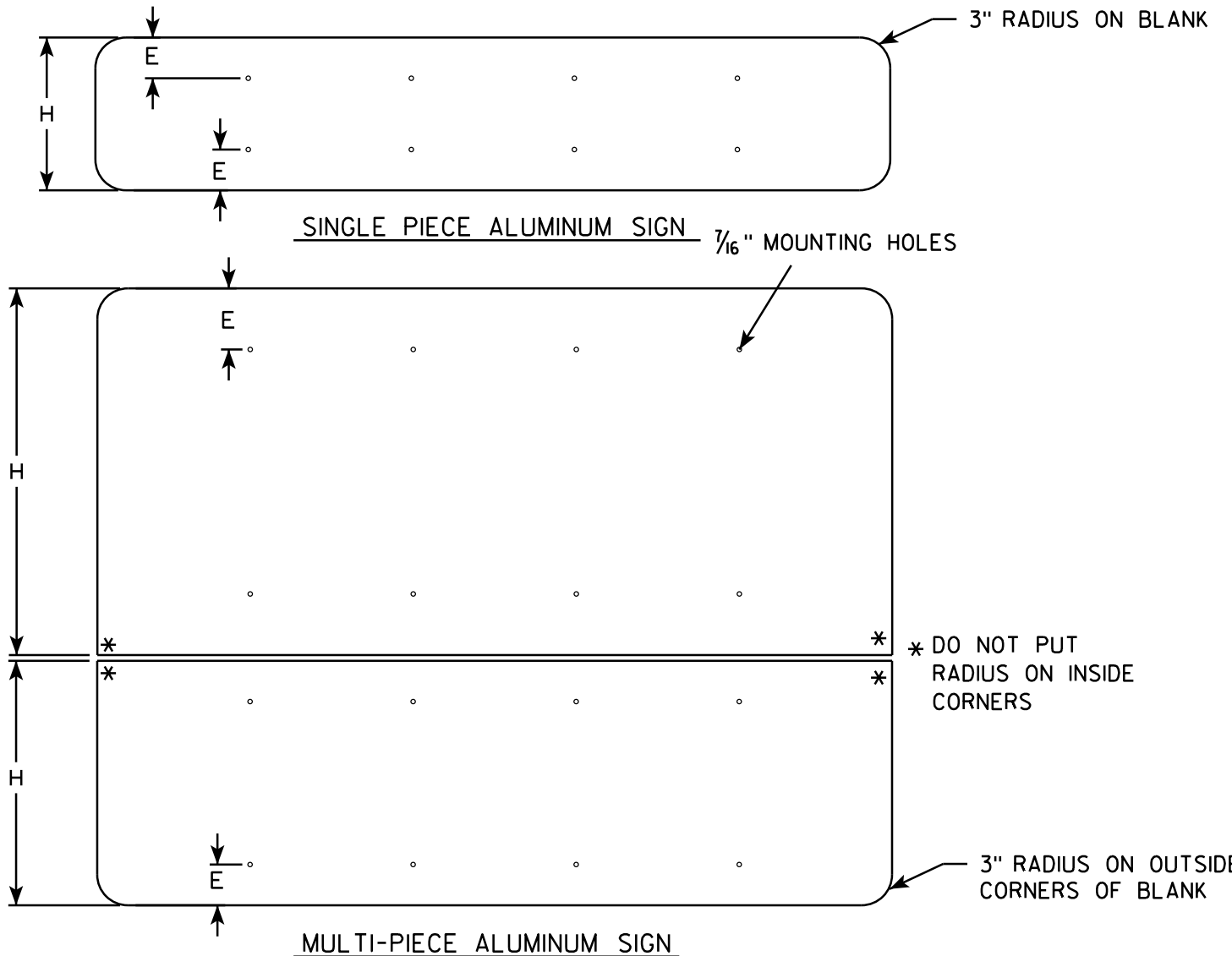
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

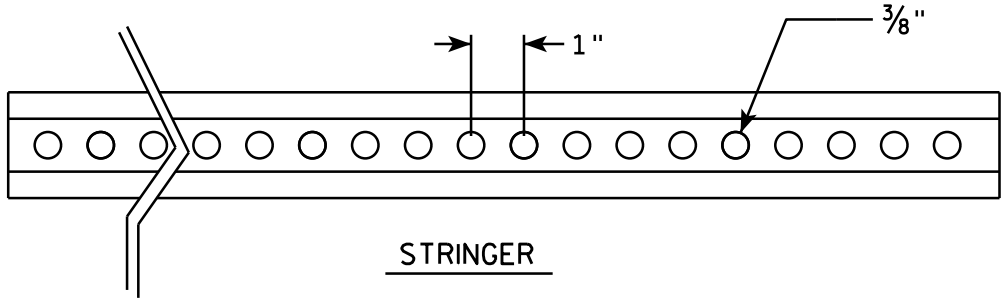
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 434	E

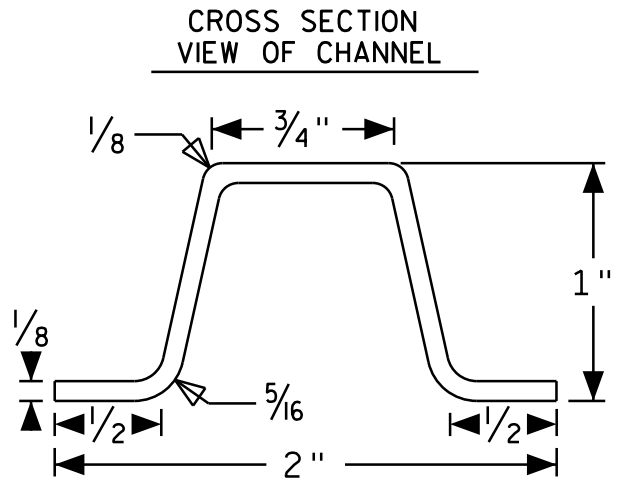


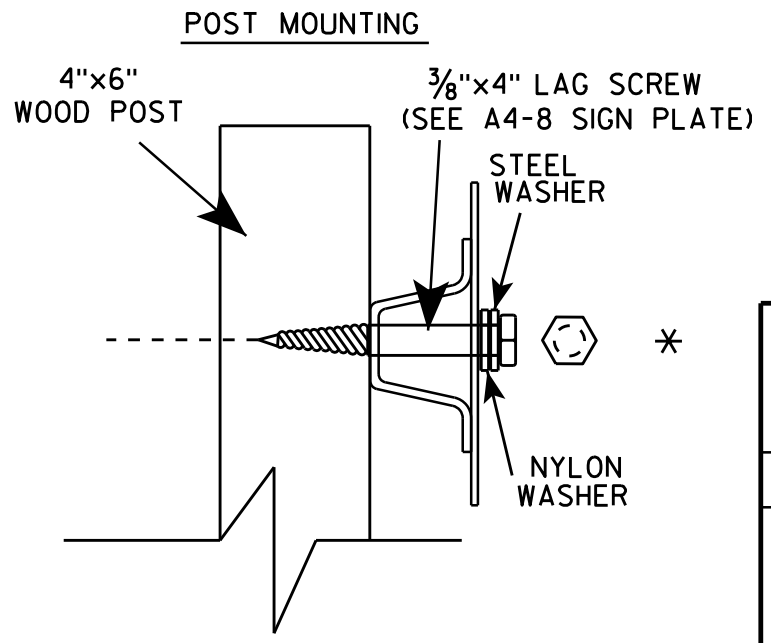
GENERAL NOTES

- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"







SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

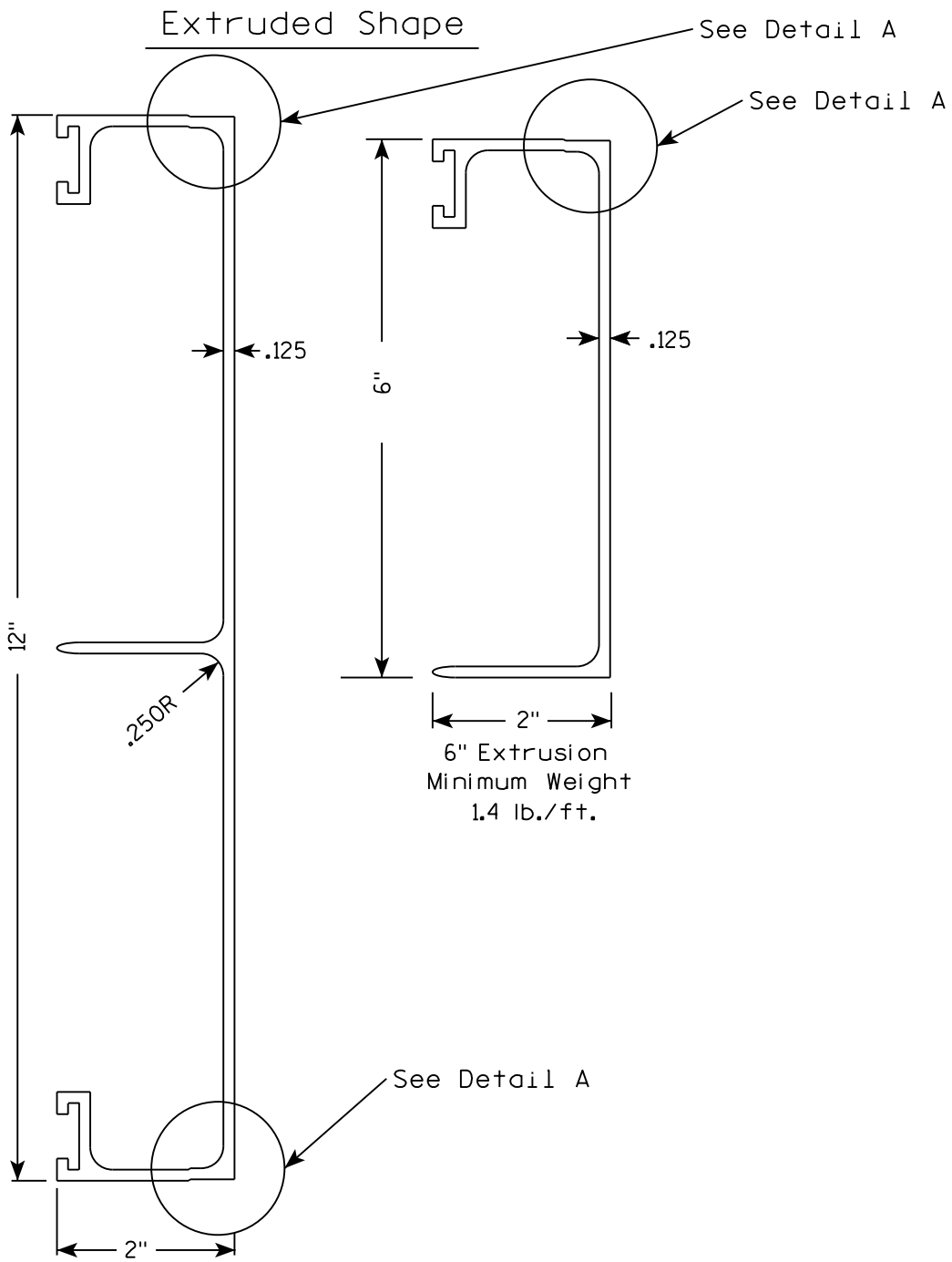
for State Traffic Engineer

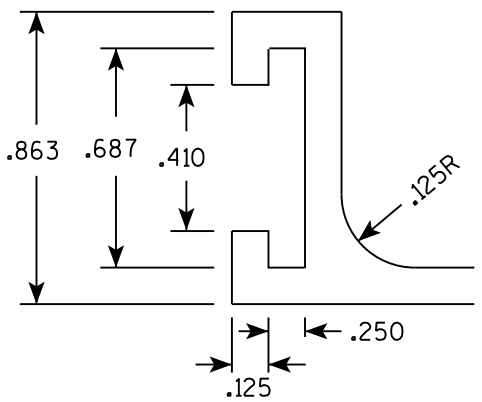
DATE 4/26/16 PLATE NO A4-18.1

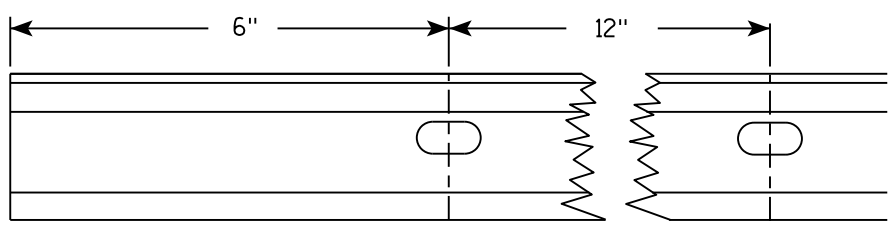
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FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

Extruded Shape







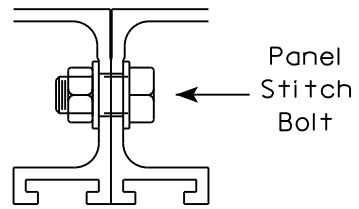
Punch 7/16" x 7/8" oval holes beginning 6" in from end of extrusion 12" CC on both edges of 6" and 12" panels.

Hardware

STITCH BOLT, WASHER & NUT

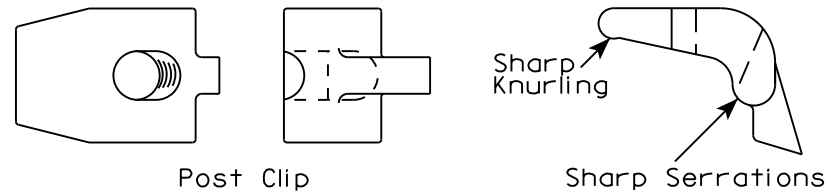
The hardware includes:

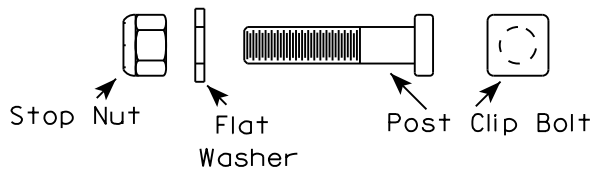
3/8 " - 16 X 3/4 " Economy Bolt 2024-T4 alloy
3/8 " - Stainless steel stop nut
3/8" X .064 Flat Washers, Alclad 2024-T4 alloy



POST CLIP, POST CLIP BOLT, WASHER & NUT

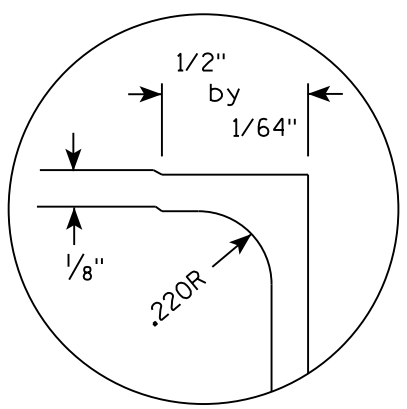
Post Clip shall be Alum. Alloy 356-T6
Post Clip Bolt shall be Stainless Steel.
Flat washer shall be 3/8" X .091, Stainless Steel.
Stop nut shall be stainless steel.





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

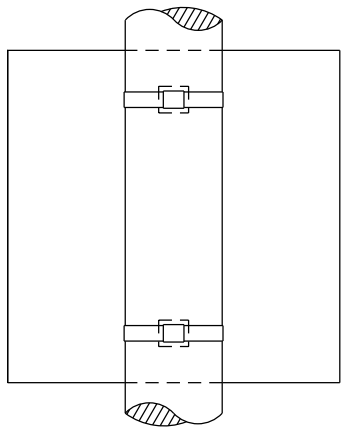
APPROVED Matthew R Rauch
for State Traffic Engineer

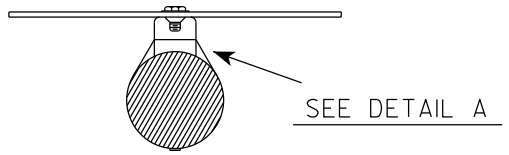
DATE 11/30/16 PLATE NO. A5-2.10

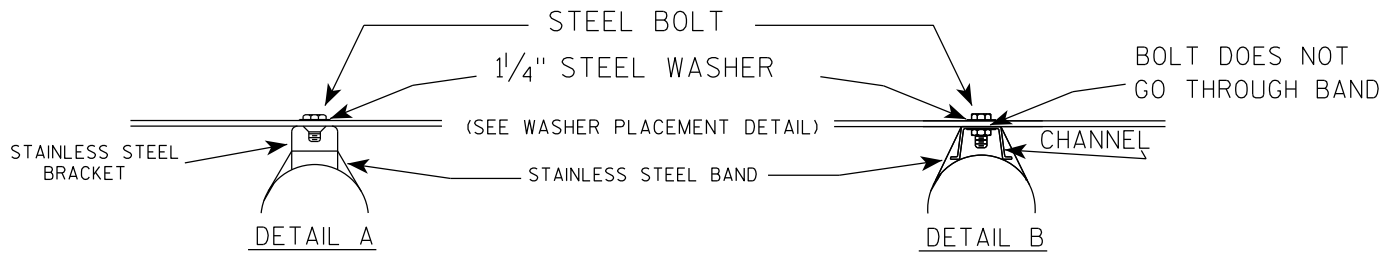
PROJECT NO:				SHEET NO: 436	E

BANDING

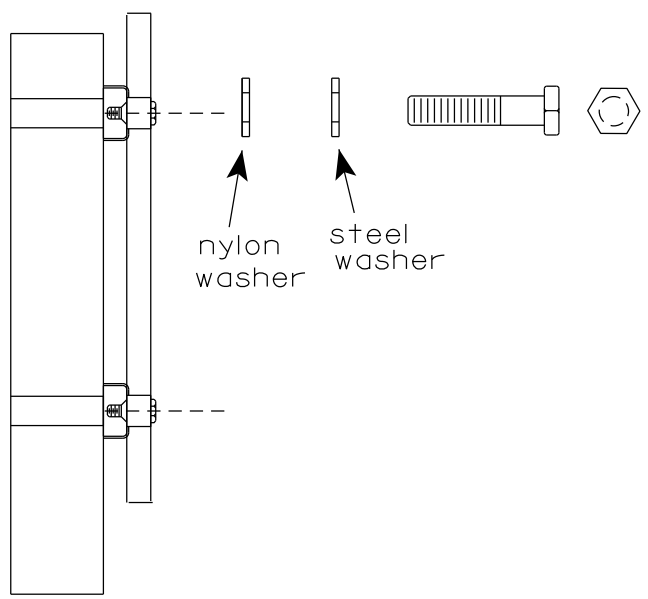
SINGLE SIGN







WASHER PLACEMENT

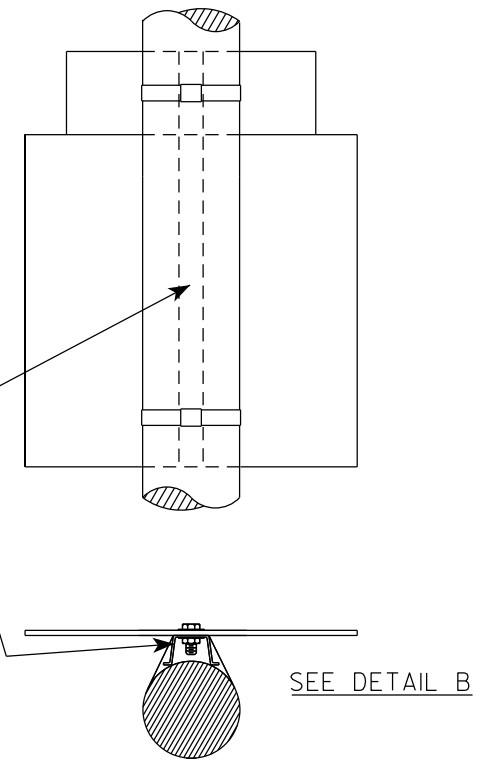


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

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.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

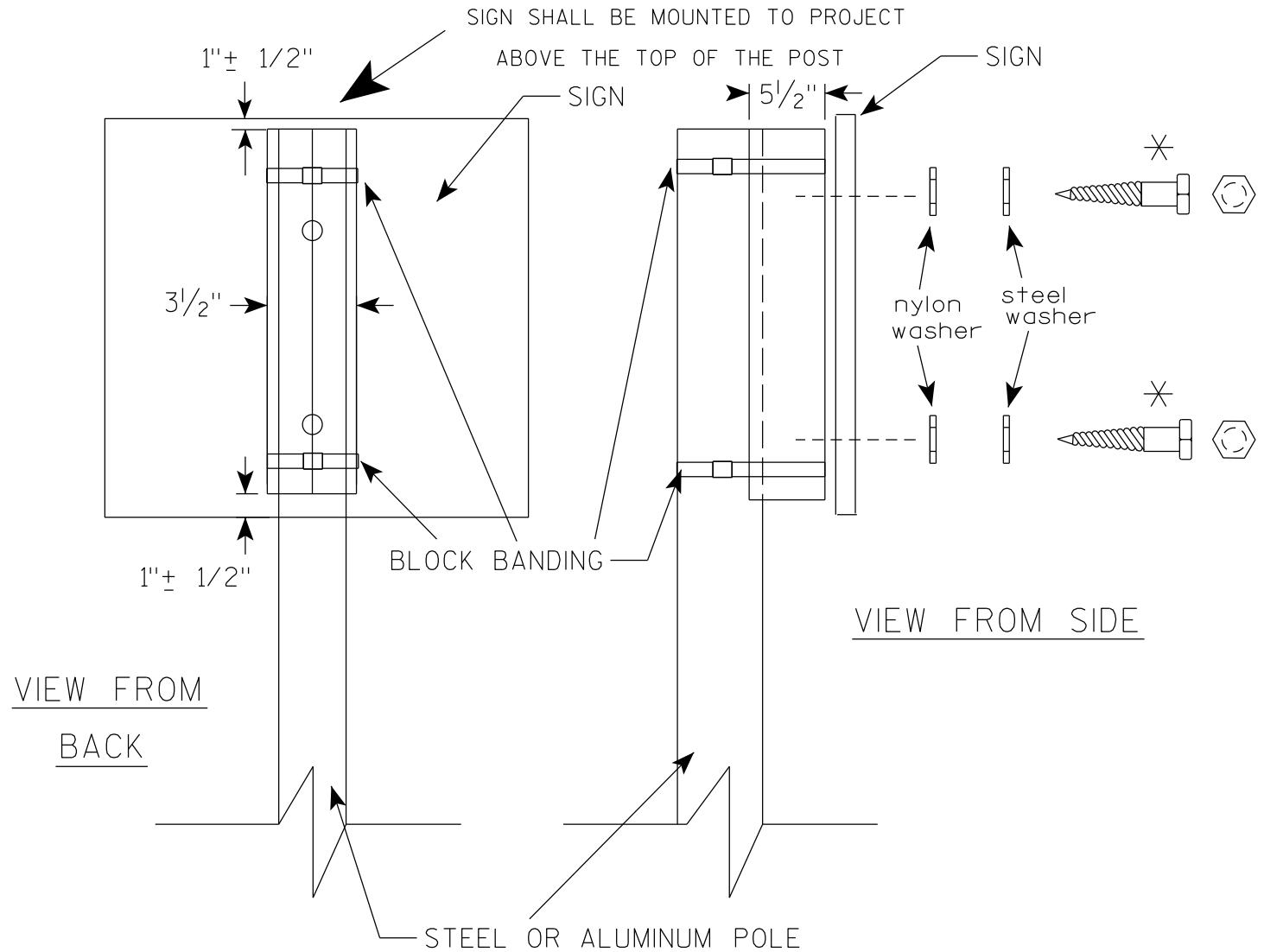
DATE 6/10/19 PLATE NO. A5-9.4

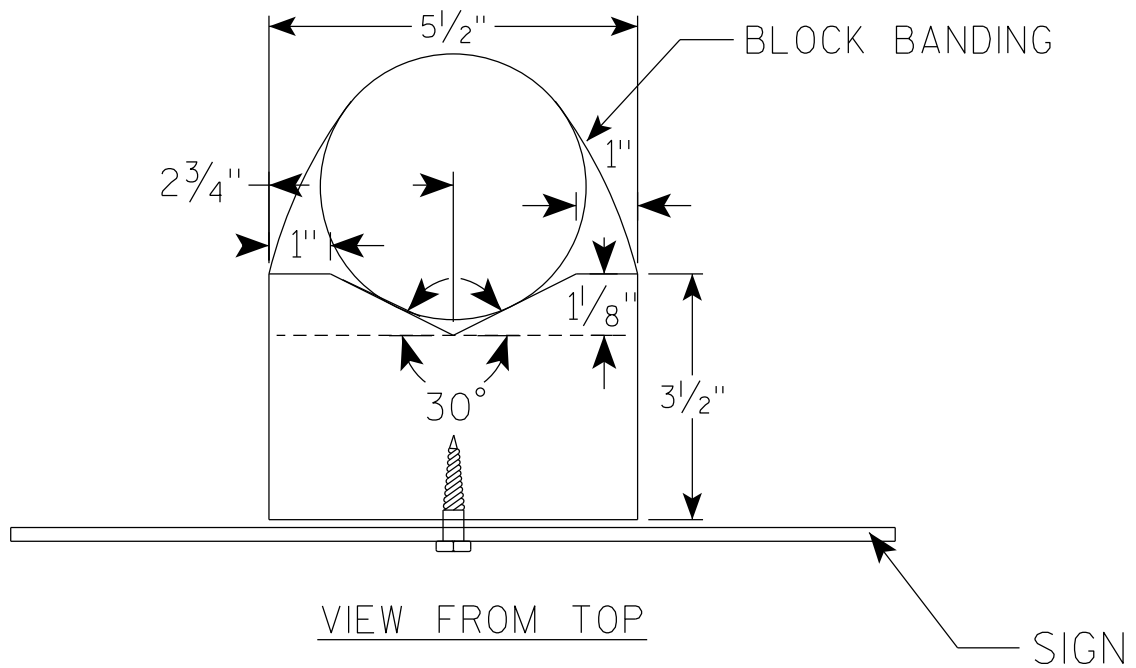
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 437	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

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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
   b. 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"

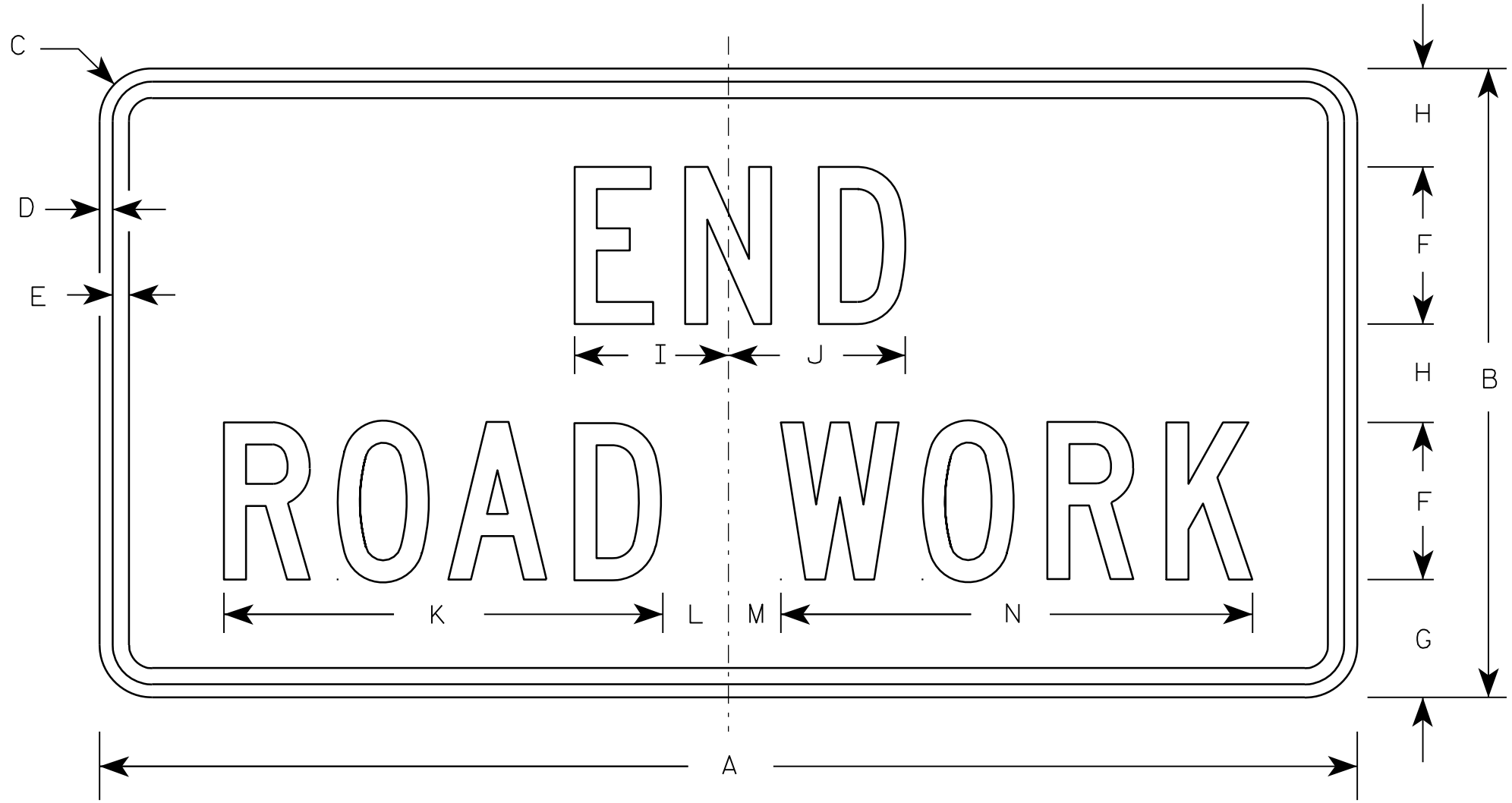
BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/10/19 PLATE NO. A5-10.2

PROJECT NO:				SHEET NO: 438	E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

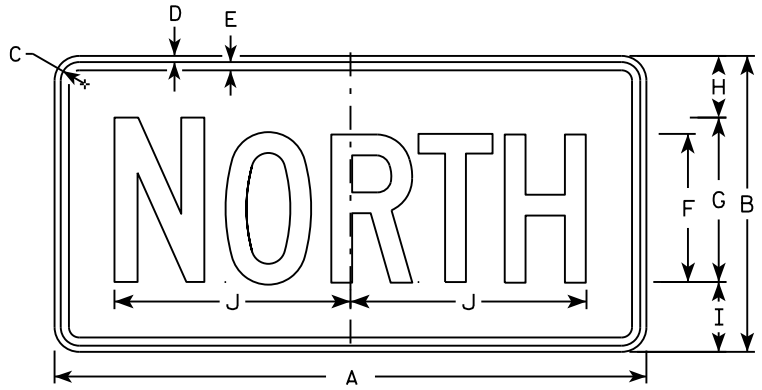
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

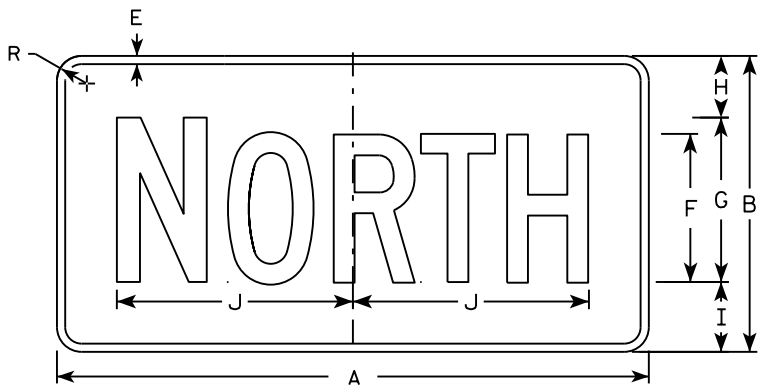
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

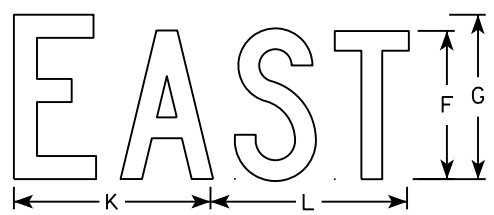
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 439	E



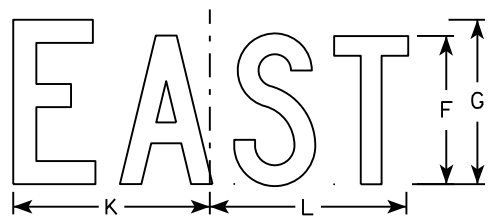
M3-1
MM3-1
MP3-1



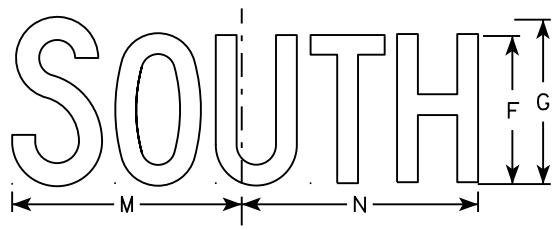
MB3-1
MK3-1
MN3-1



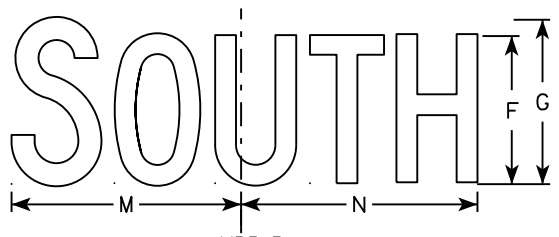
M3-2
MM3-2
MP3-2



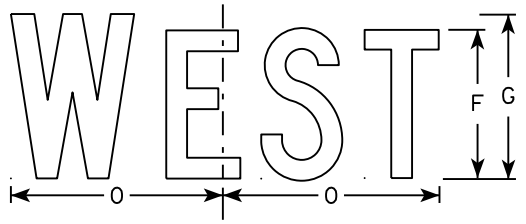
MB3-2
MK3-2
MN3-2



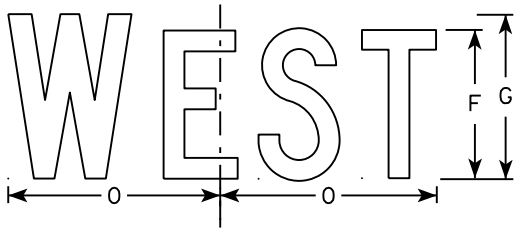
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

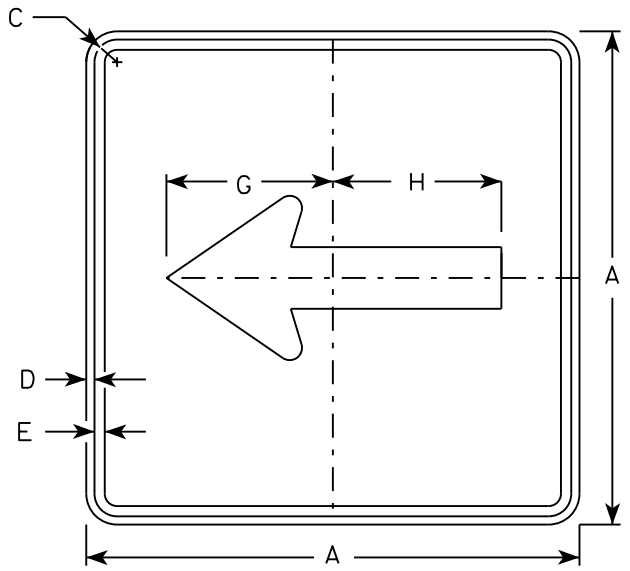
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

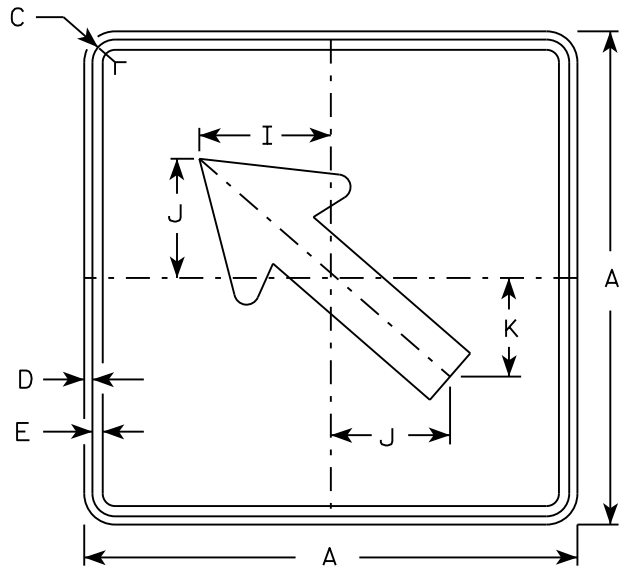
DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



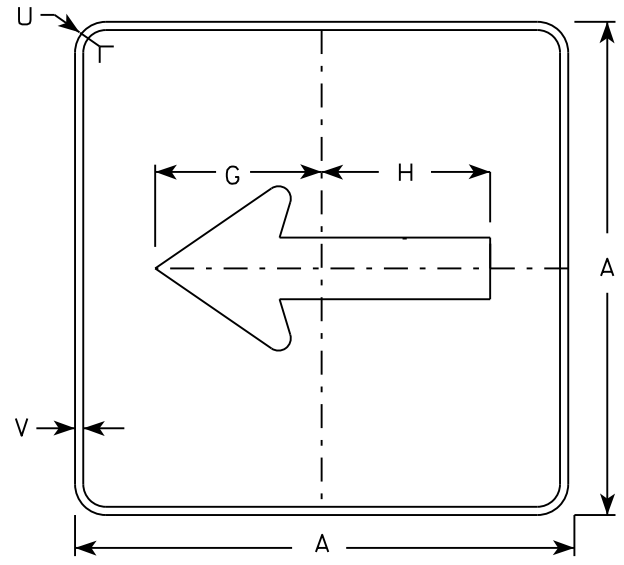
M6-1
MM6-1
MO6-1
MP6-1



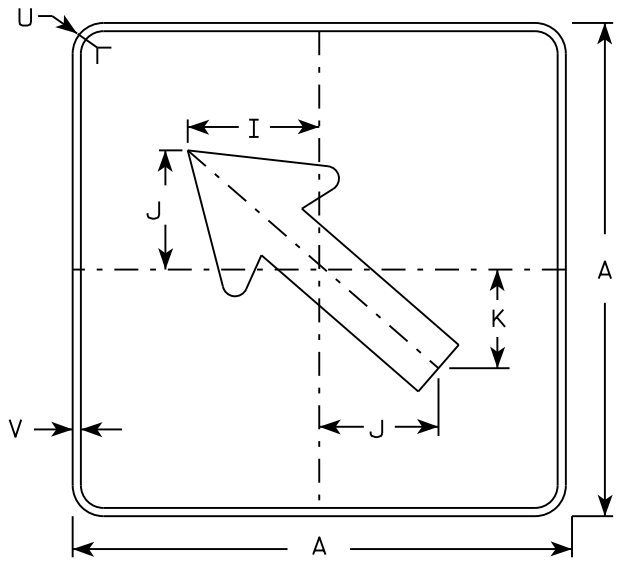
M6-2
MM6-2
MO6-2
MP6-2

NOTES

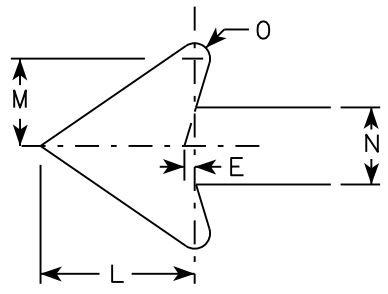
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

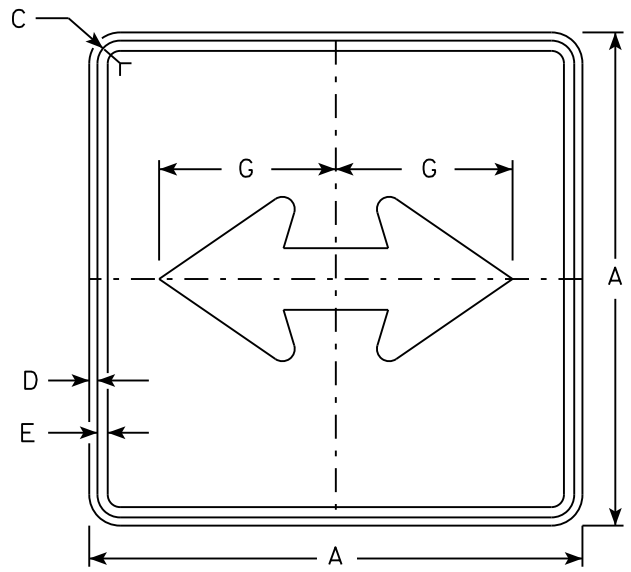
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

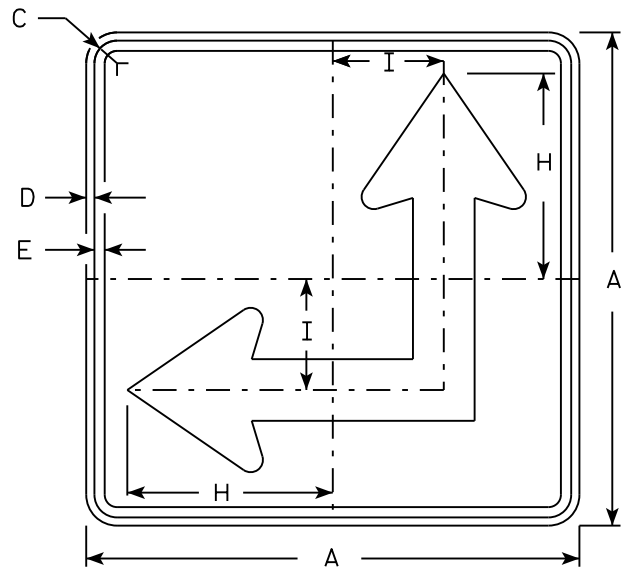
DATE 10/15/15 PLATE 441 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



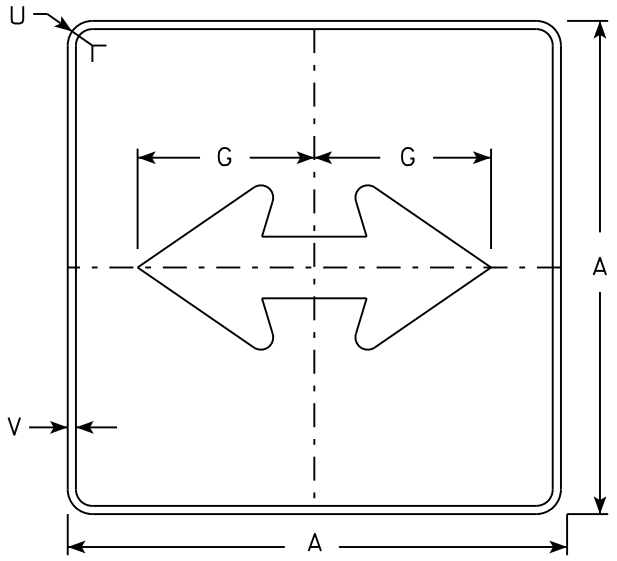
M6-4
MM6-4
MO6-4
MP6-4



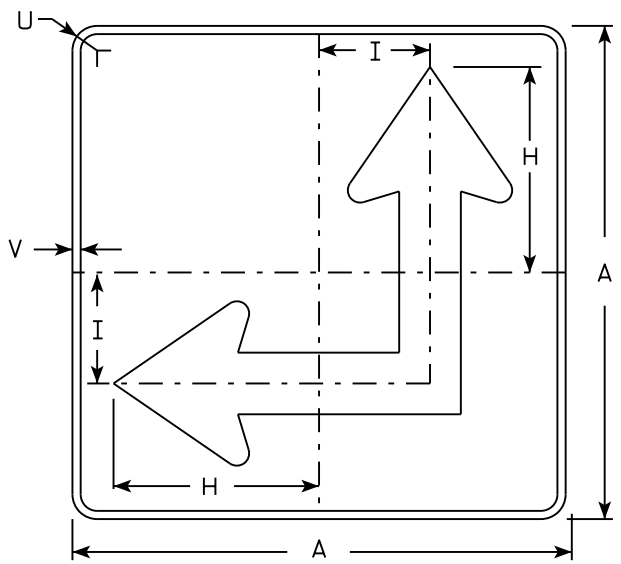
M6-6
MM6-6
MO6-6
MP6-6

NOTES

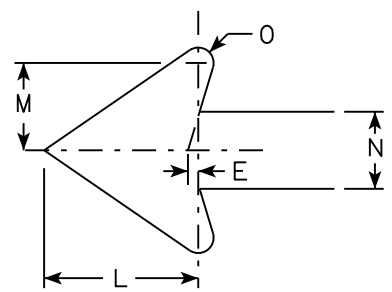
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.



MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6-4 & M6-6
SERIES

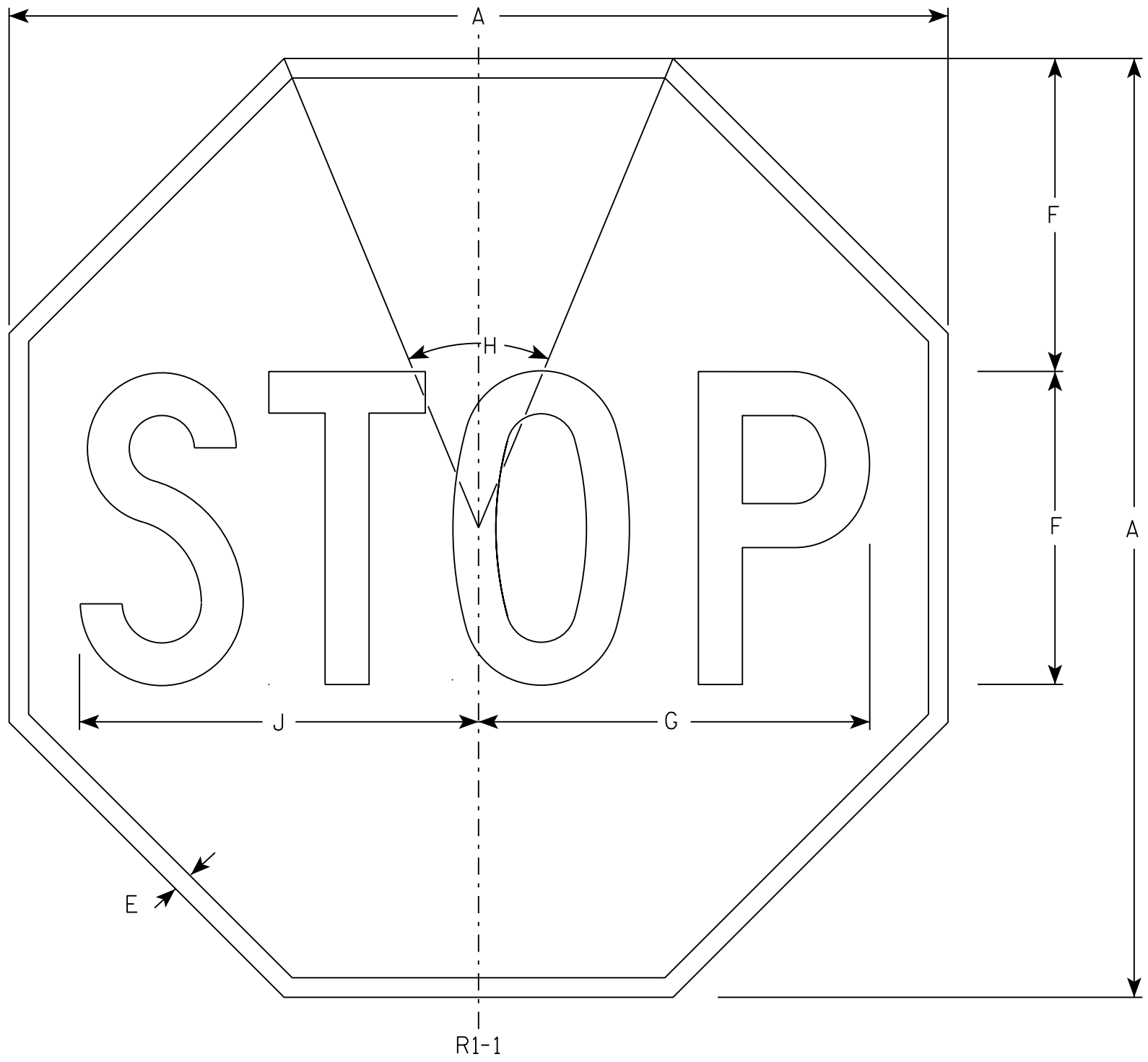
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 442 M6-4.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 01-DEC-2015 17:58 PLOT BY : $$ platuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

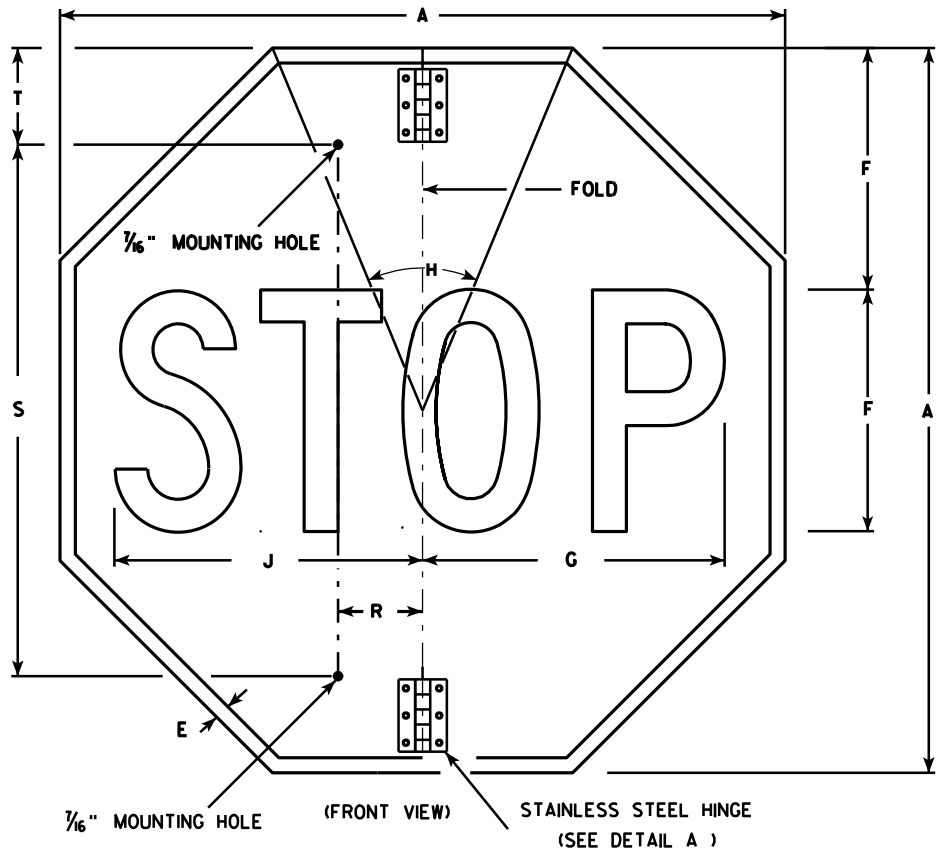
STANDARD SIGN
R1-1

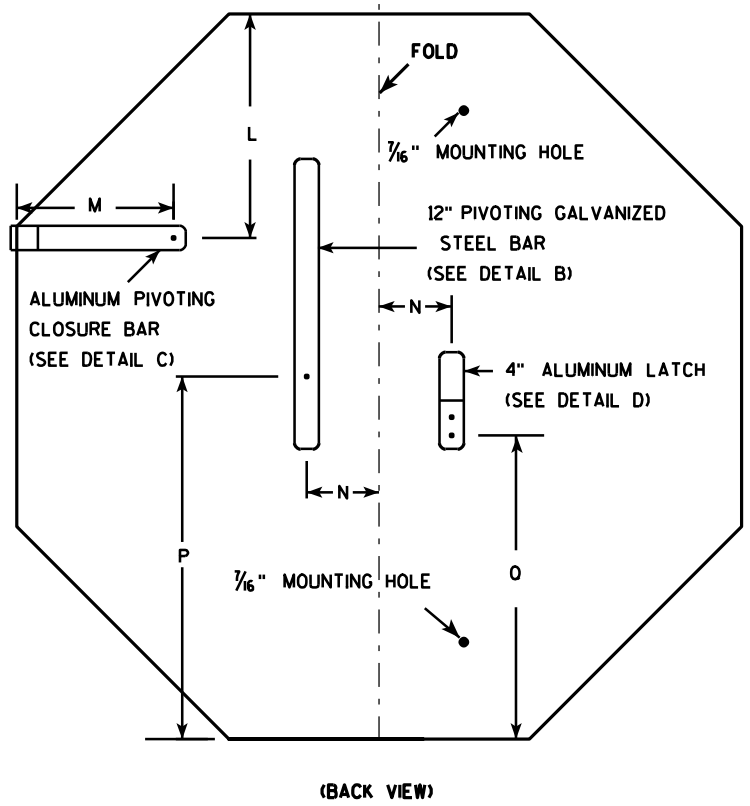
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

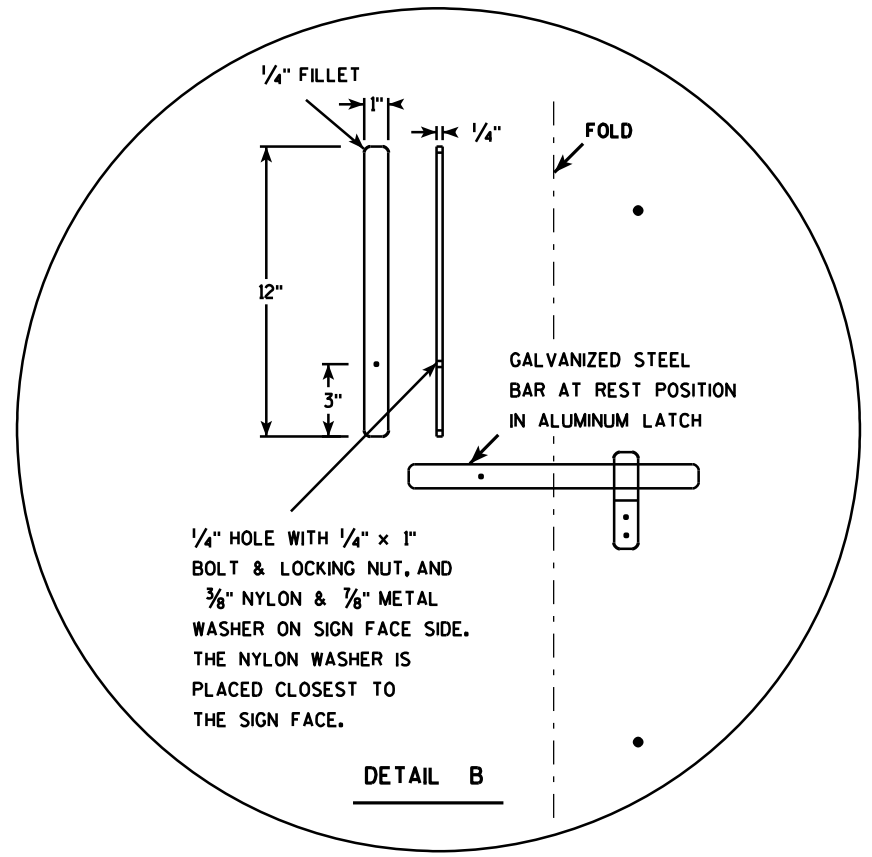
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 443	E

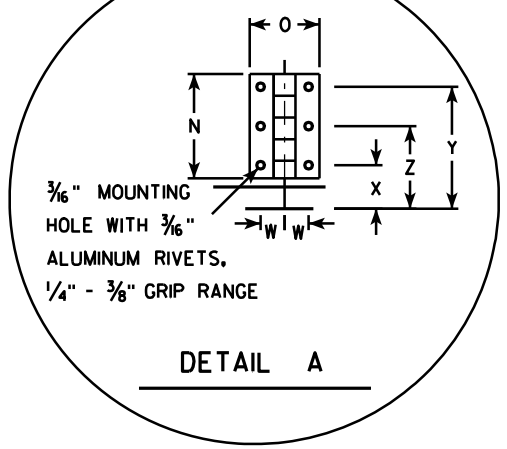


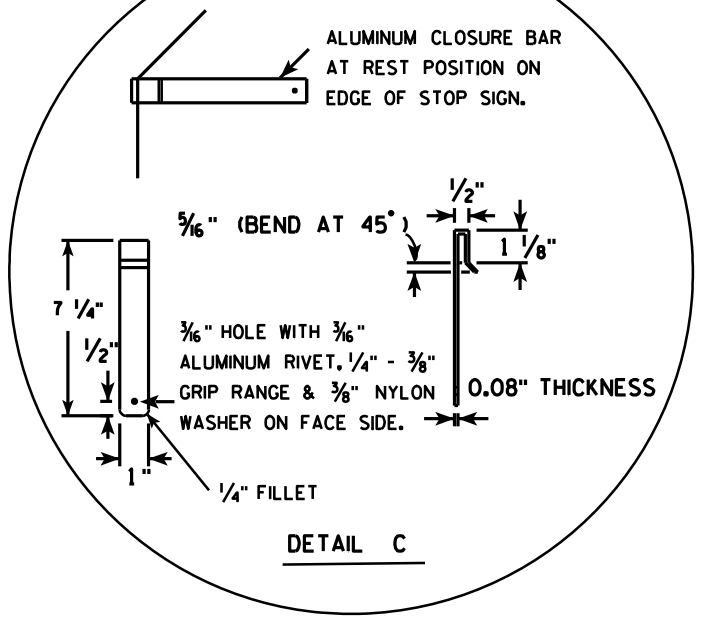


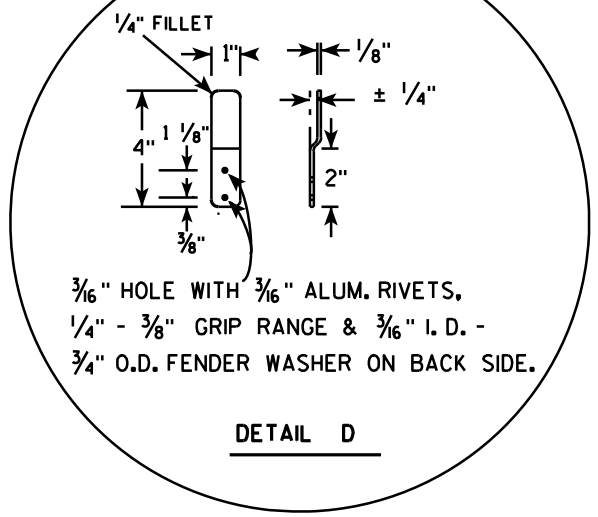
NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.









SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

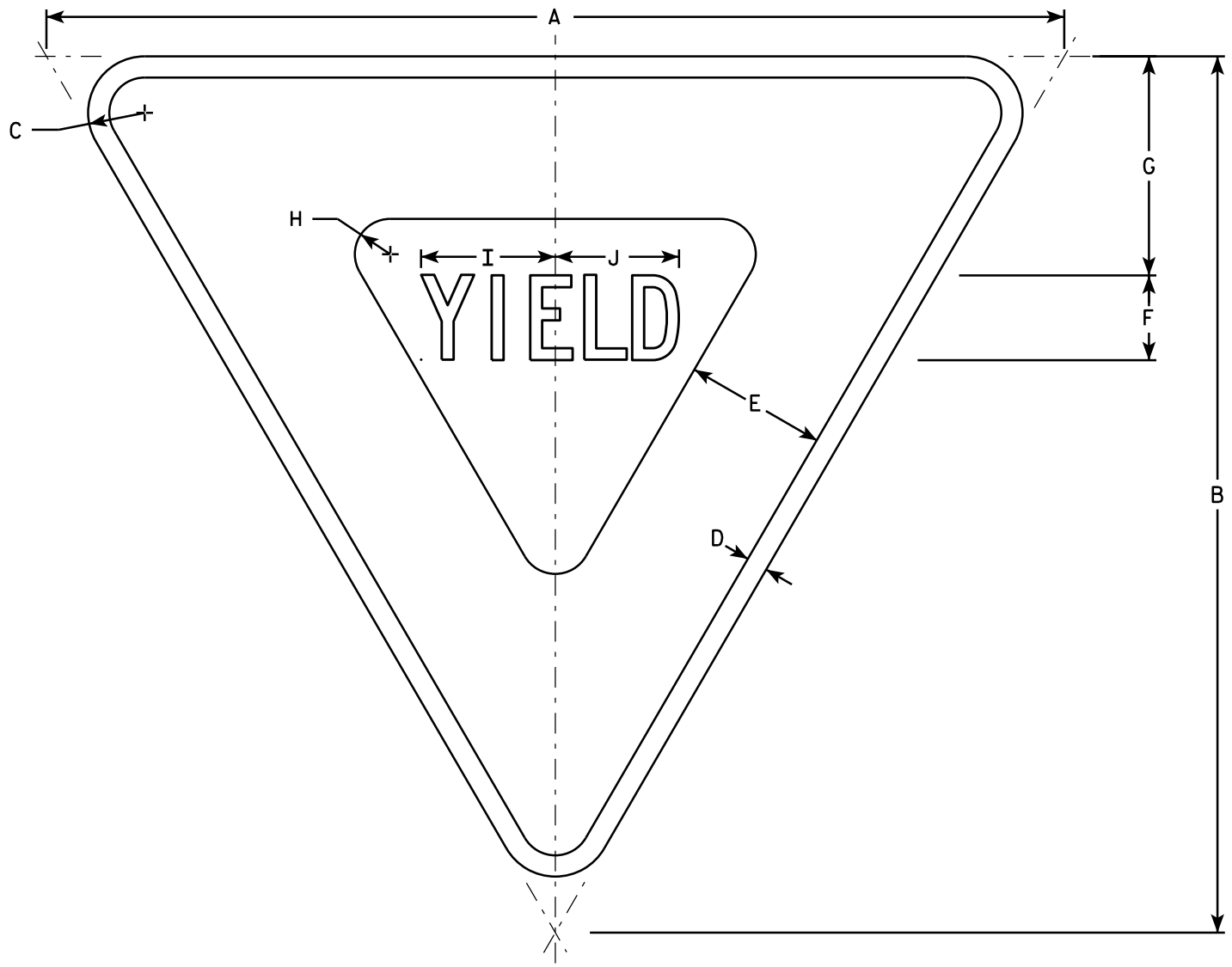
STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 444	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

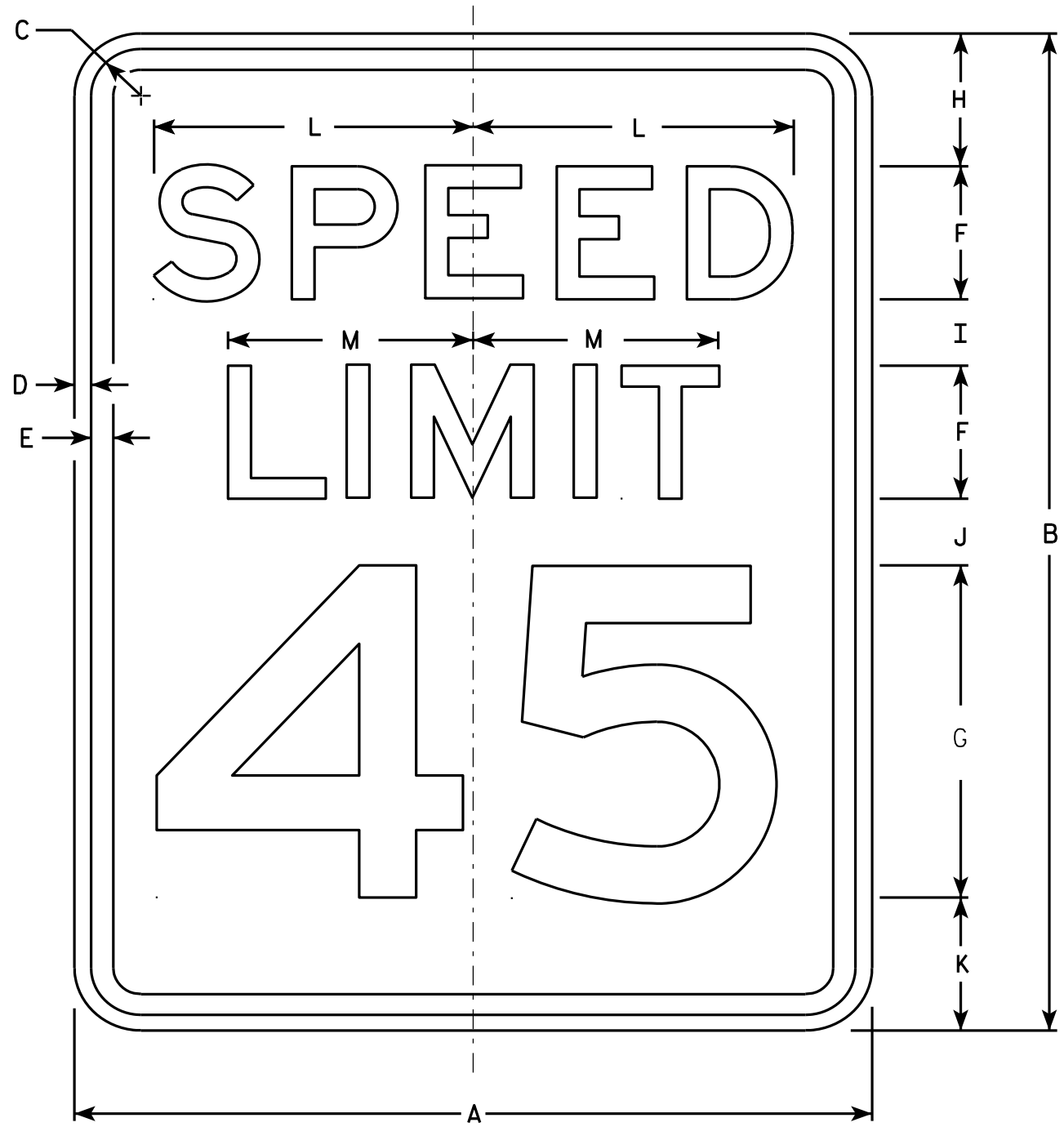
WISCONSIN DEPT OF TRANSPORTATION

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

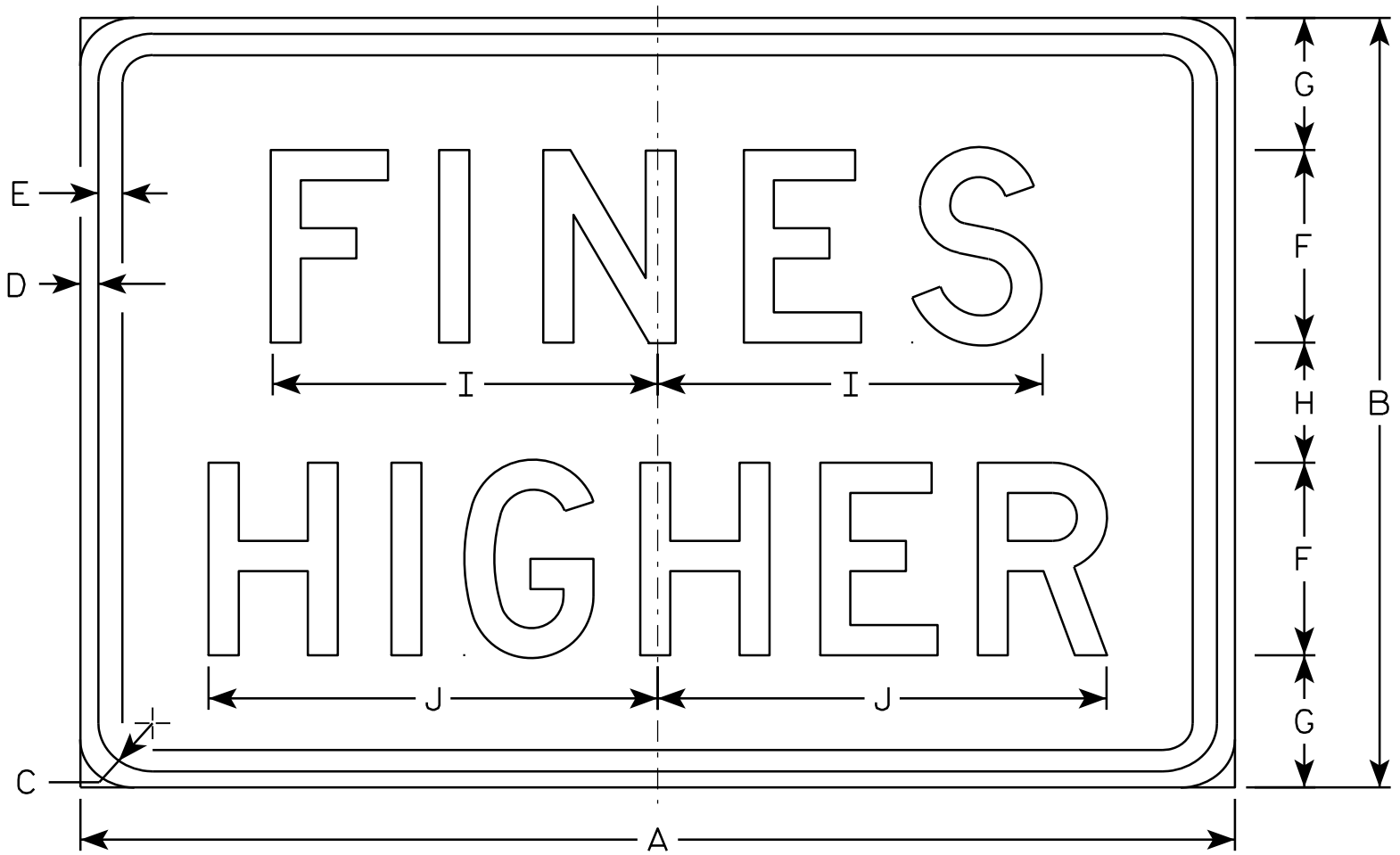
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 446 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN PLOT DATE : 28-MAY-2010 08:32 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 4.717577:1.000000

WISDOT/CADDS SHEET 42



R2-6P

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
2M	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
3	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
4	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
5	48	36	1 3/8	1/2	5/8	8	7	6	15 1/8	19																	12.0

STANDARD SIGN
R2-6P

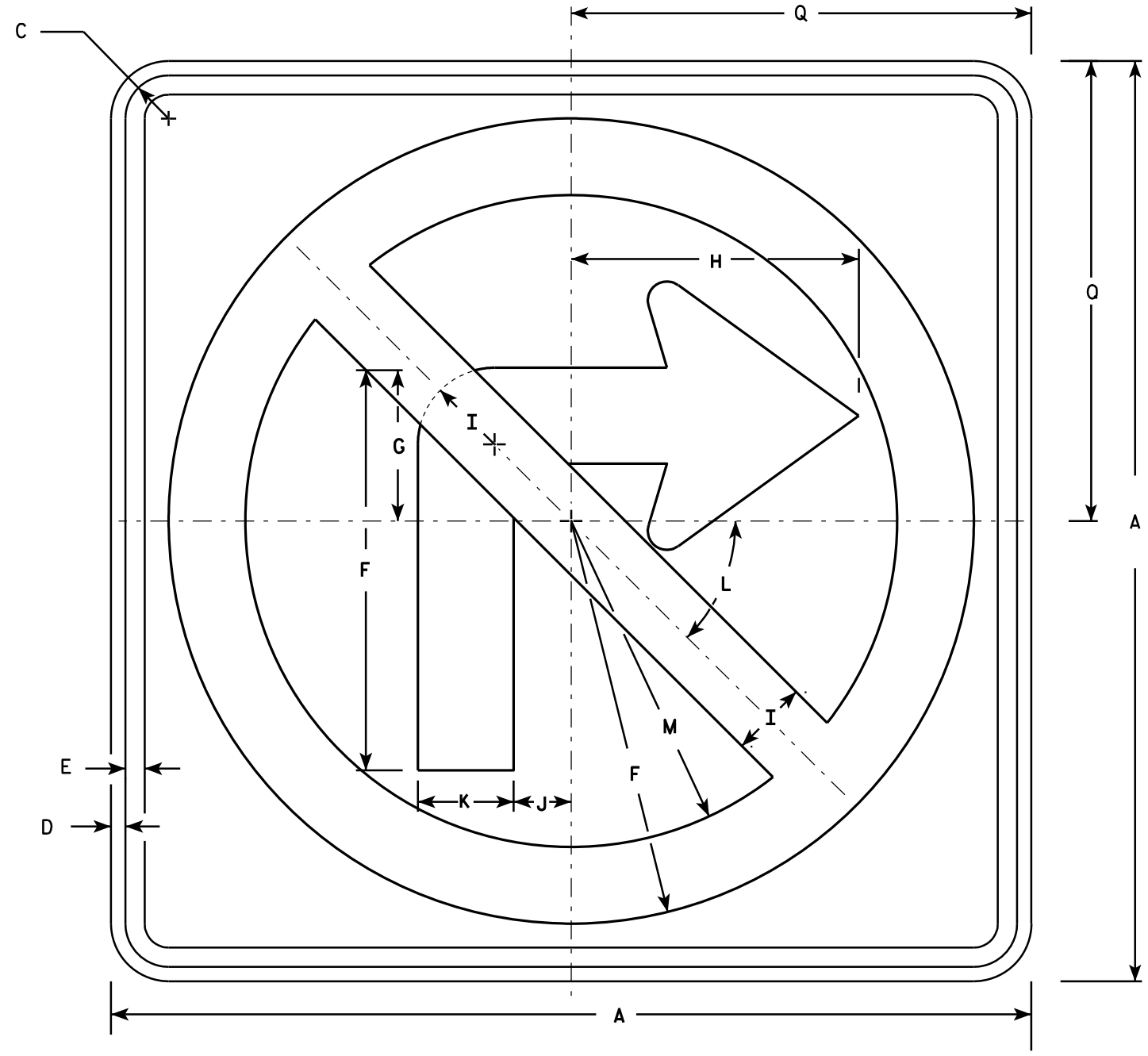
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/20/10 PLATE NO. R2-6P.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 447 | E

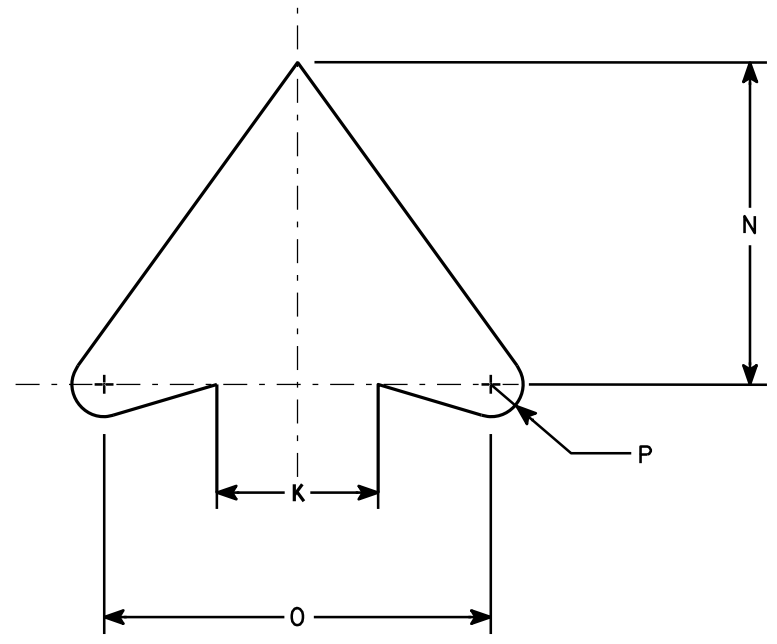
7



R3-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

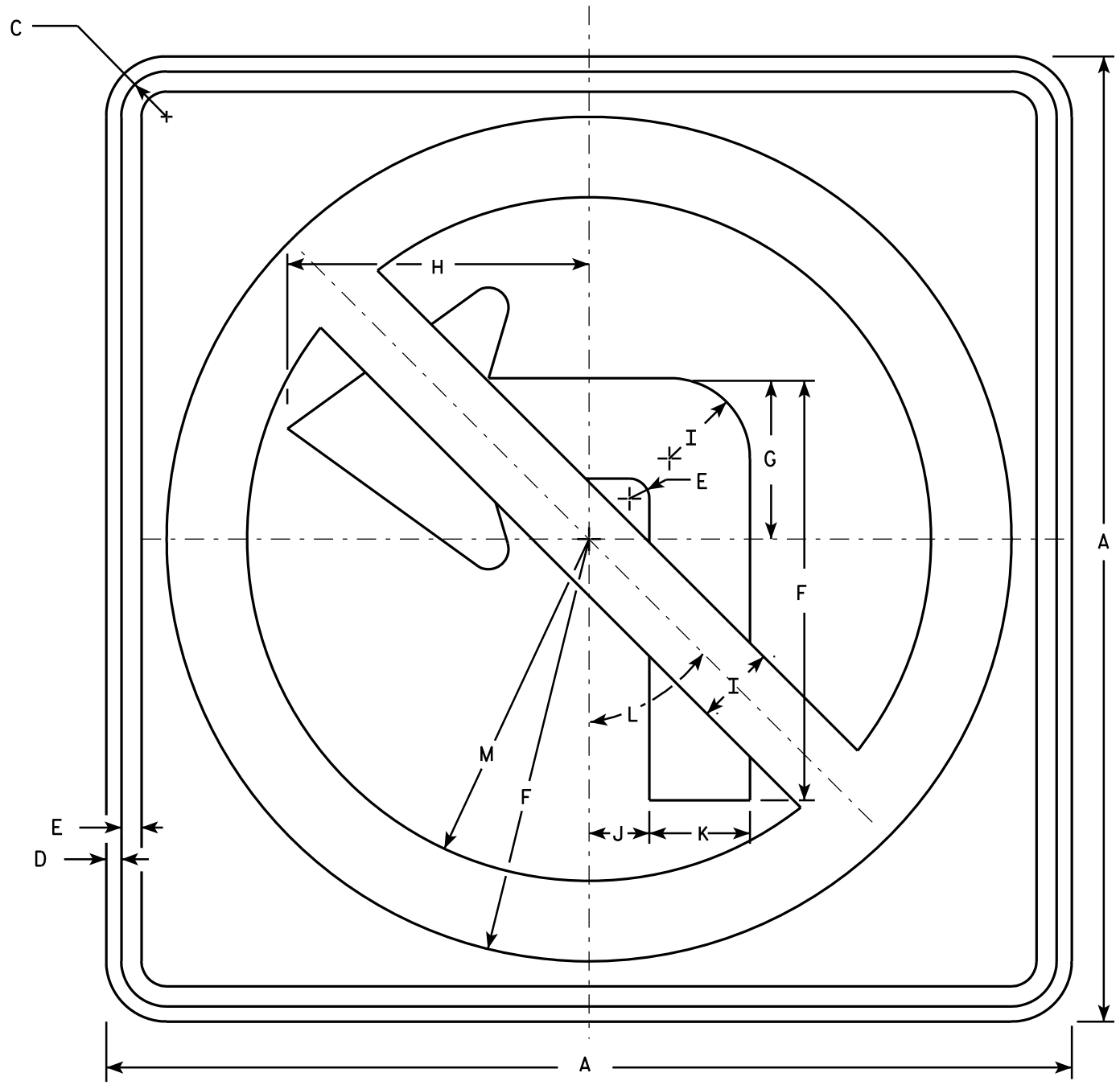
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

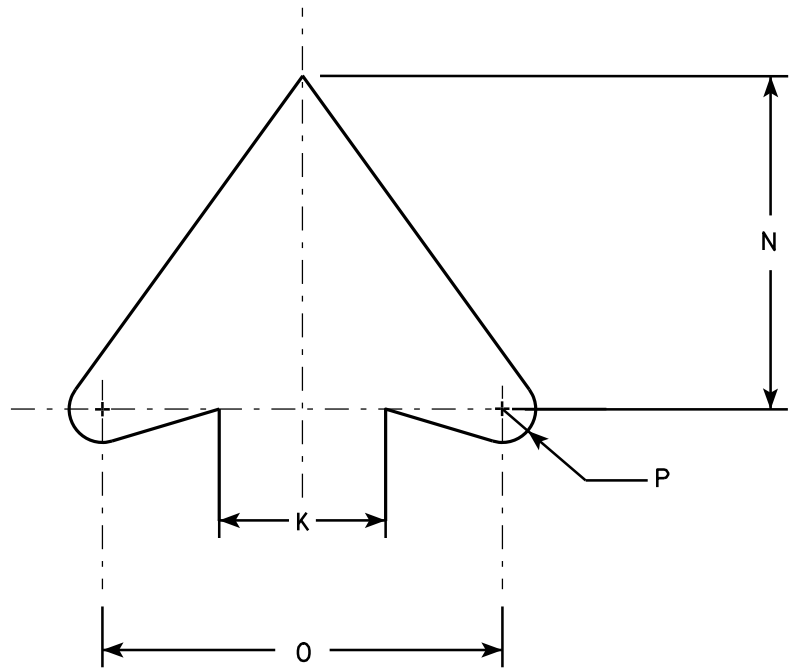
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 448	E



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

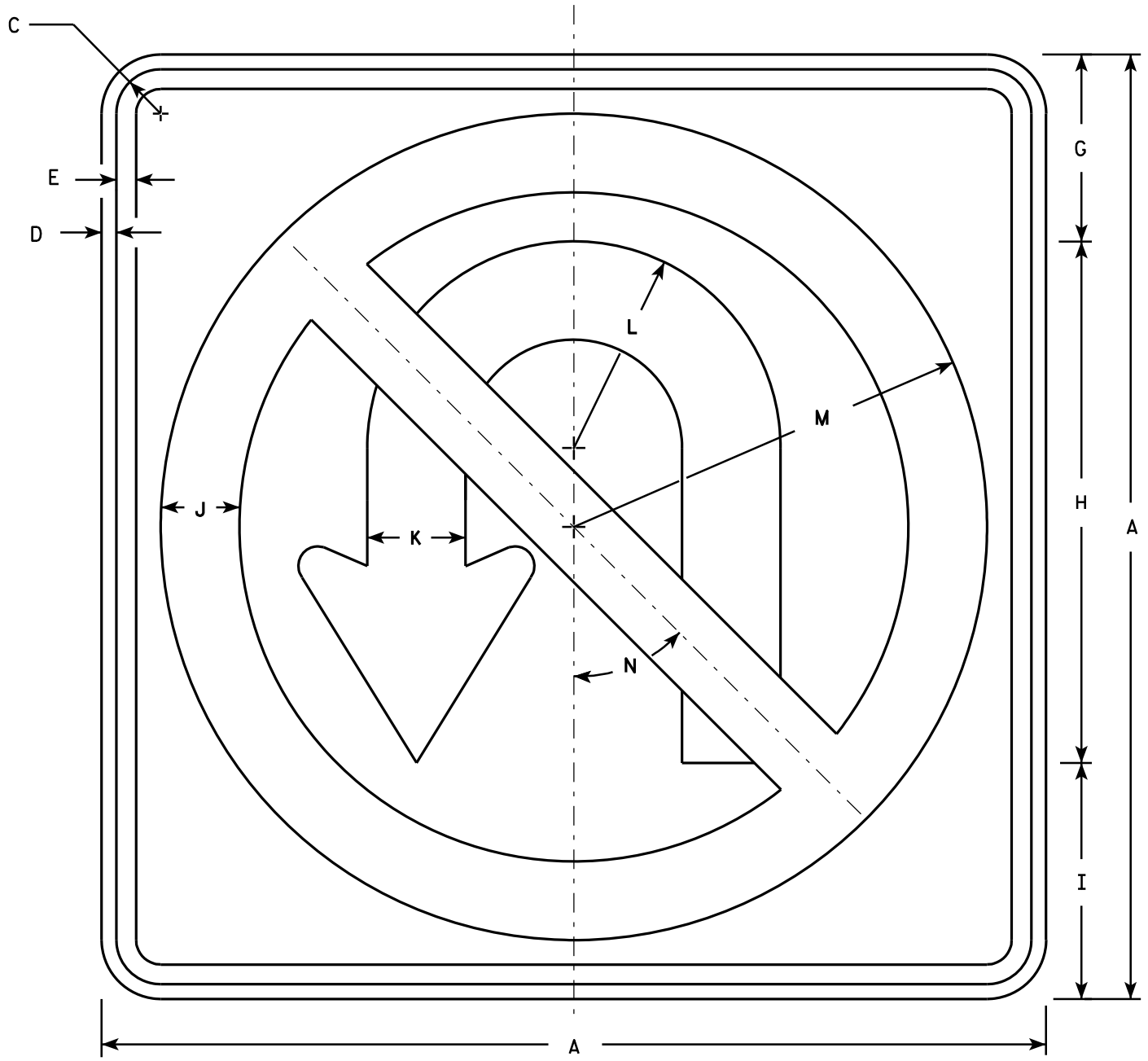
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

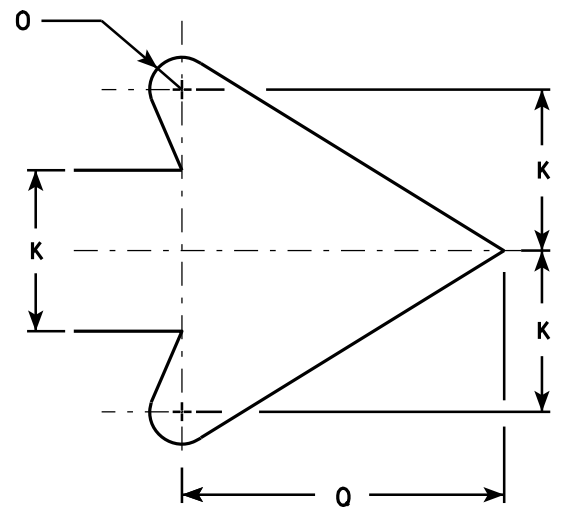
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 449	E



R3-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	3/8	1/2		4 3/4	13 1/4	6	2	2 1/2	5 1/4	10 1/2	45°	1/2		5										4.0
2M	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
3	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
4	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0
5	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0

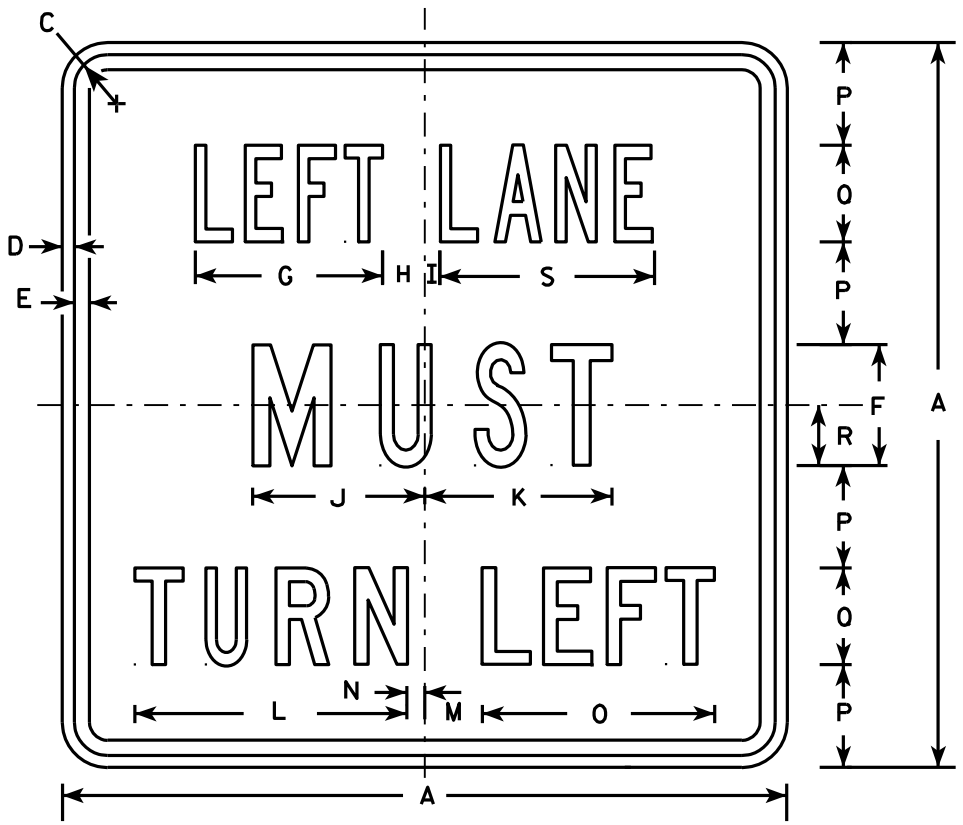
STANDARD SIGN
R3-4

WISCONSIN DEPT OF TRANSPORTATION

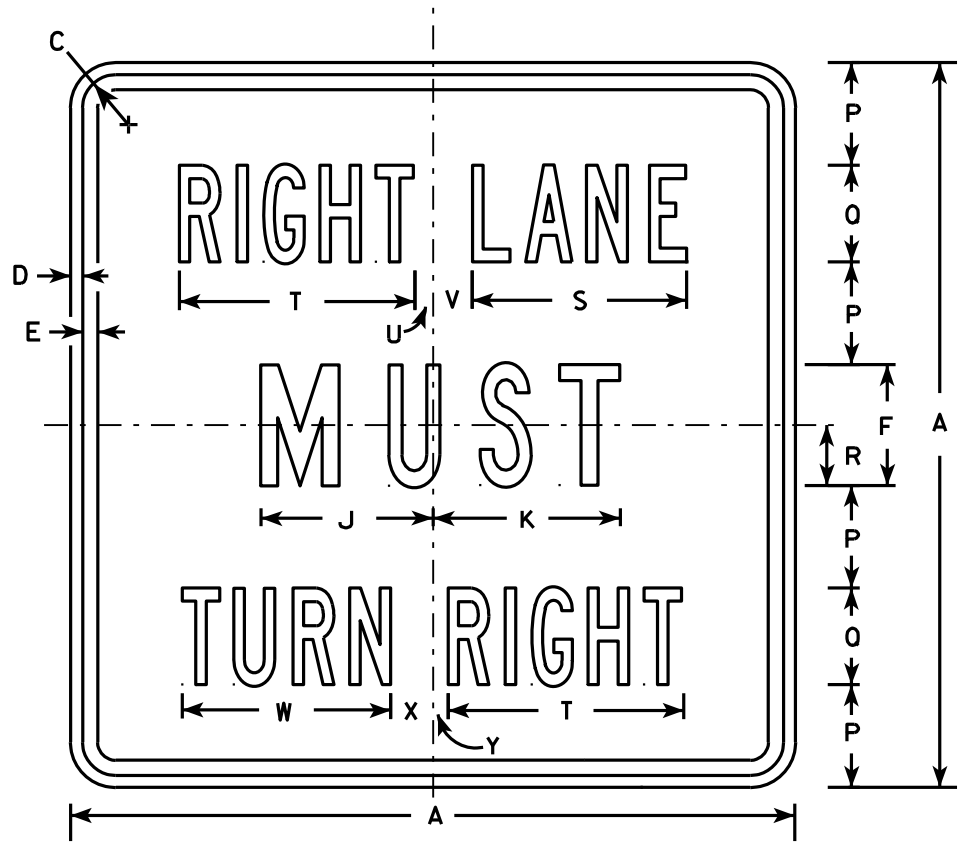
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-4.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 450	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

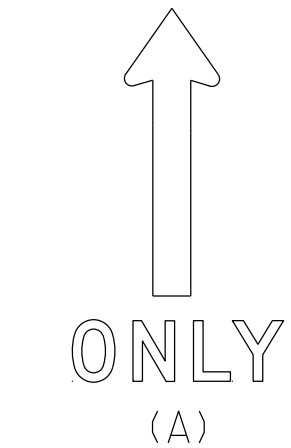
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-7.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 451 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R37.DGN PLOT DATE : 18-MAR-2011 09:43 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 7.945391:1.000000

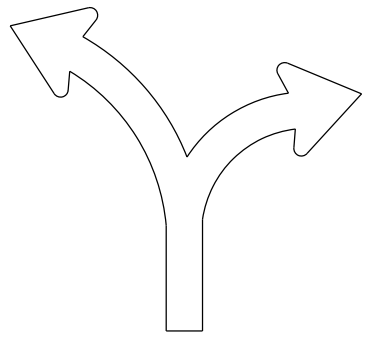
WISDOT/CADDS SHEET 42

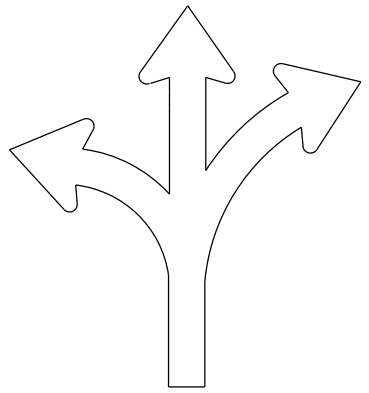


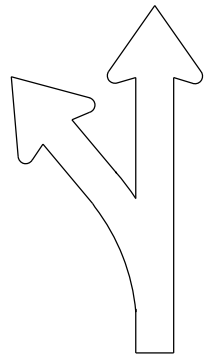
(A)

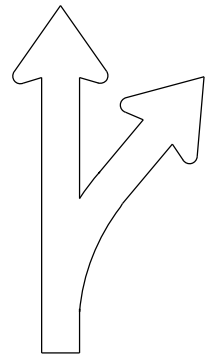


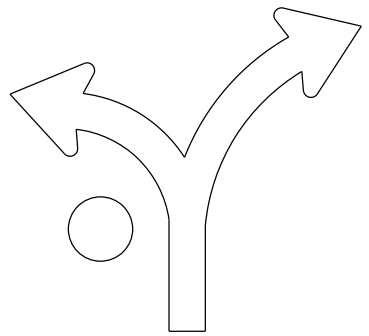
(B)

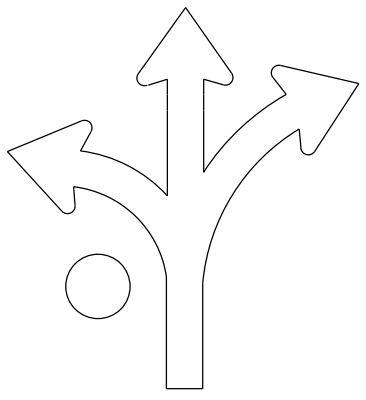

(C)

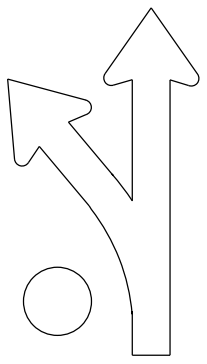

(D)


(E)


(F)

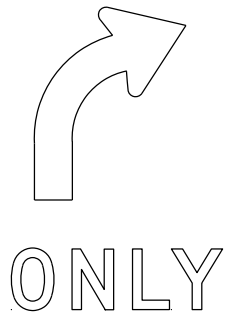

(G)


(H)

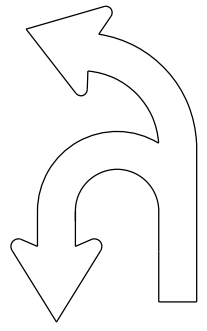

(I)



(L)



(R)


(U)

NOTES

1. Sigs are Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Use appropriate Letter for Sign Code
   Each letter added makes sign wider. Example R3-8EAR
5. Square footage of sign varies by letters

1	Letter =	3.75 sq ft for Size 2
		6.0 sq ft for Size 3
		10.0 sq ft for Size 4 or 5
2	Letters =	7.5 sq ft for Size 2
		12.0 sq ft for Size 3
		20.0 sq ft for Size 4 or 5
3	Letters =	11.25 sq ft for Size 2
		18.0 sq ft for Size 3
		30.0 sq ft for Size 4 or 5
4	Letters =	15.0 sq ft for Size 2
		24.0 sq ft for Size 3
		40.0 sq ft for Size 4 or 5
5	Letters =	18.75 sq ft for Size 2
		30.0 sq ft for Size 3
		50.0 sq ft for Size 4 or 5
6	Letters =	22.5 sq ft for Size 2
		36.0 sq ft for Size 3
		60.0 sq ft for Size 4 or 5

6. When letters C,D,G,H are used on the Left or Right end of the sign the Sq. Ft. changes.
   Add the amounts when these letters are used:
   1.25 sq ft for Size 2
   1.5 sq ft for Size 3
   2.0 sq ft for Size 4 or 5

STANDARD SIGN
R3-8 Series

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

7

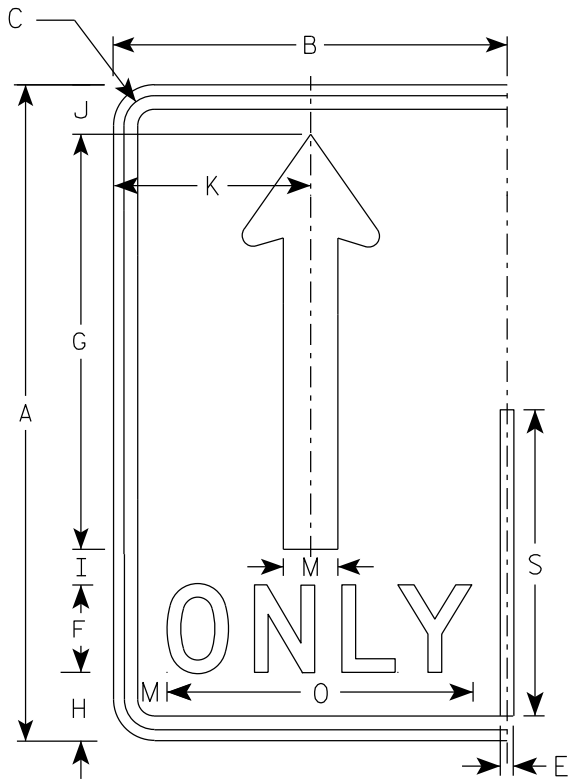
PROJECT NO:

SHEET NO: 452 E

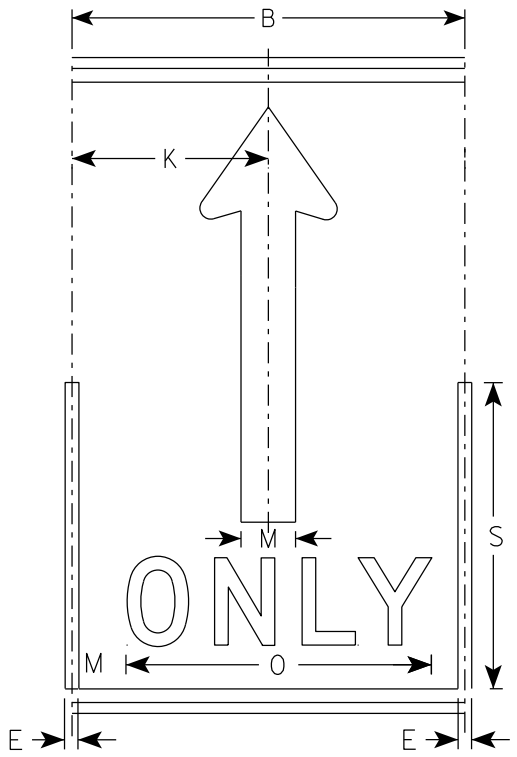
FILE NAME : C:\CAEfiles\Projects\stdplate_R38.dgn
PLOT DATE : 21-MAY 2019 4:37
PLOT BY : mscj9h
PLOT NAME :
WISDOT/CADDS SHEET 42

NOTES

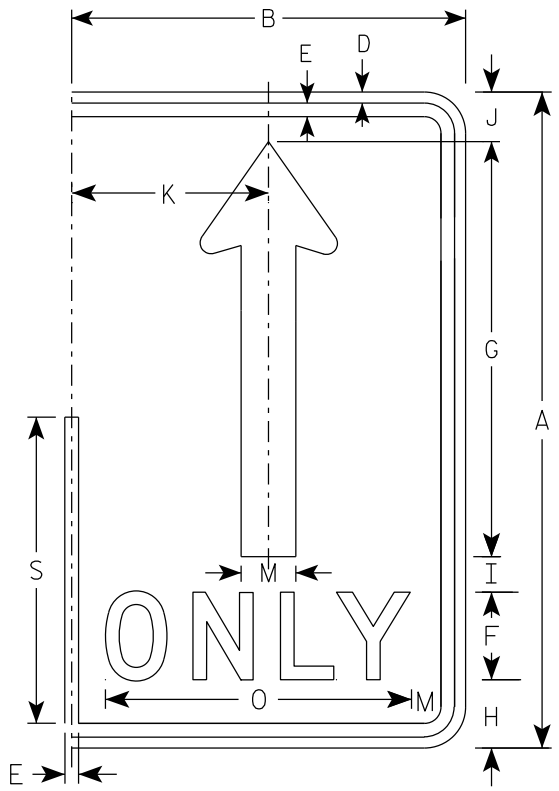
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



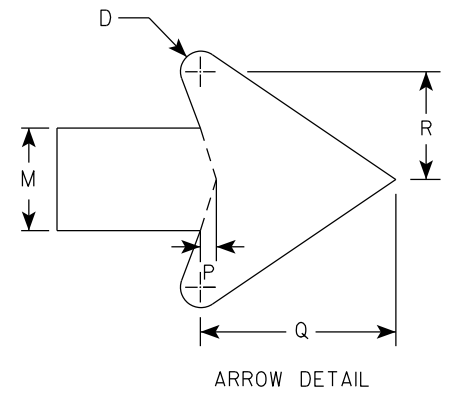
(A)



(A)



(A)



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	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8	4	19	3 1/8	1 5/8	2 1/4	9		2 1/2		14	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8	5	22 3/4	3 3/4	1 3/4	2 3/4	12		3		17 5/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1	6	30 3/8	5 1/8	2 7/8	3 5/8	15		4		21 3/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (A) Arrow

WISCONSIN DEPT OF TRANSPORTATION

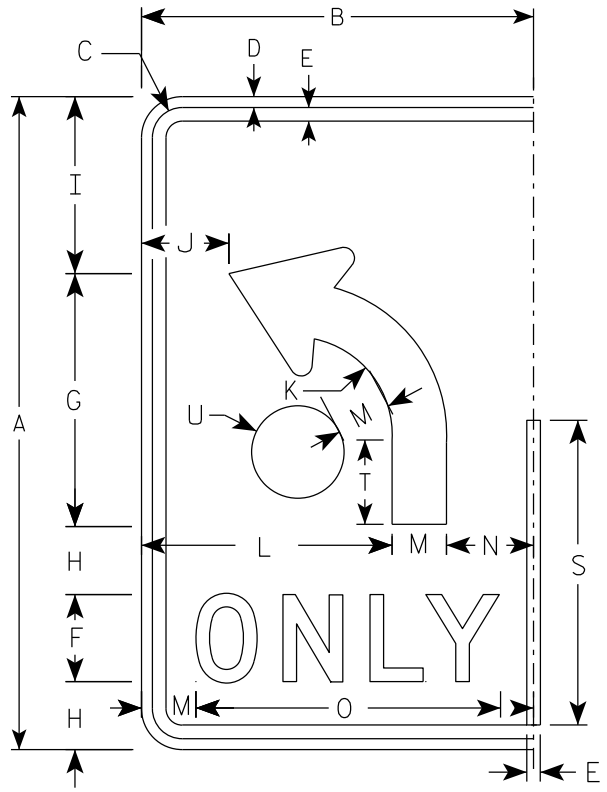
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

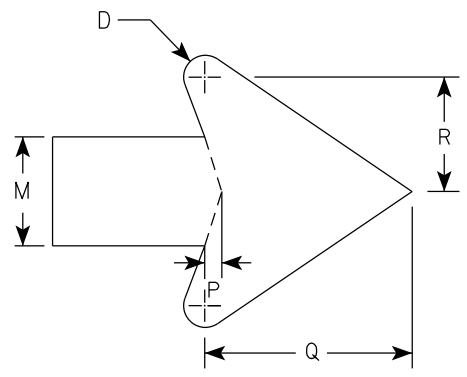
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 453 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
   Message Series - D



(B)



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	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8						3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8	2 1/2						6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8						10.0

STANDARD SIGN

R3-8 (B) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

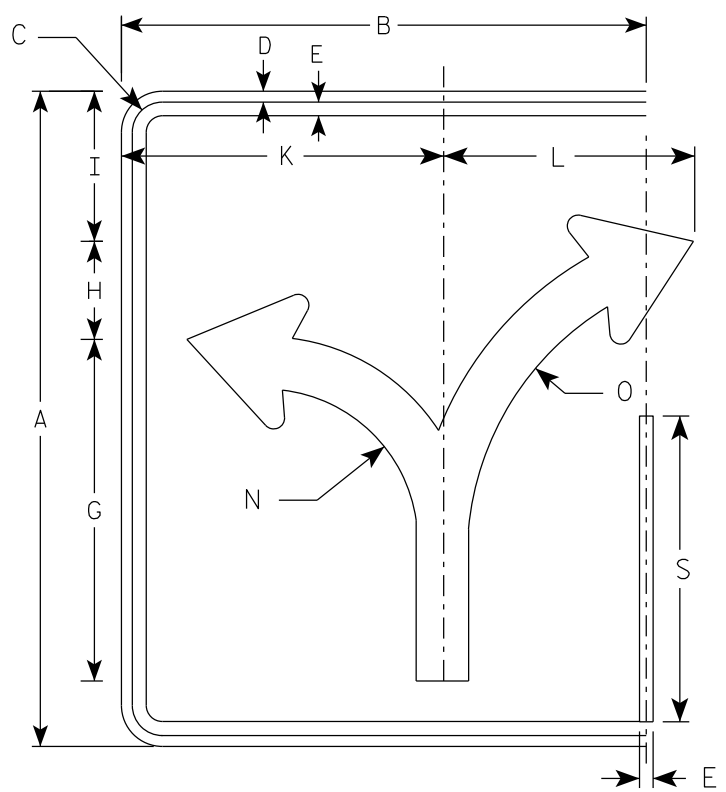
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

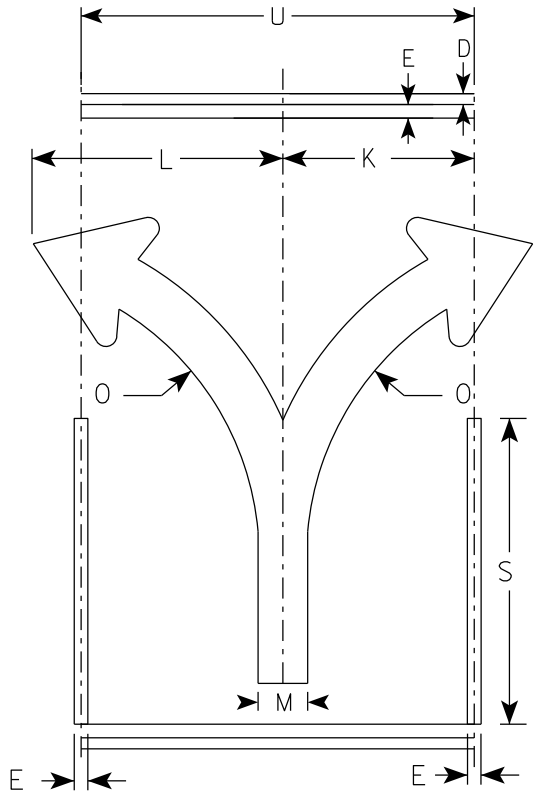
SHEET NO: 454 E

NOTES

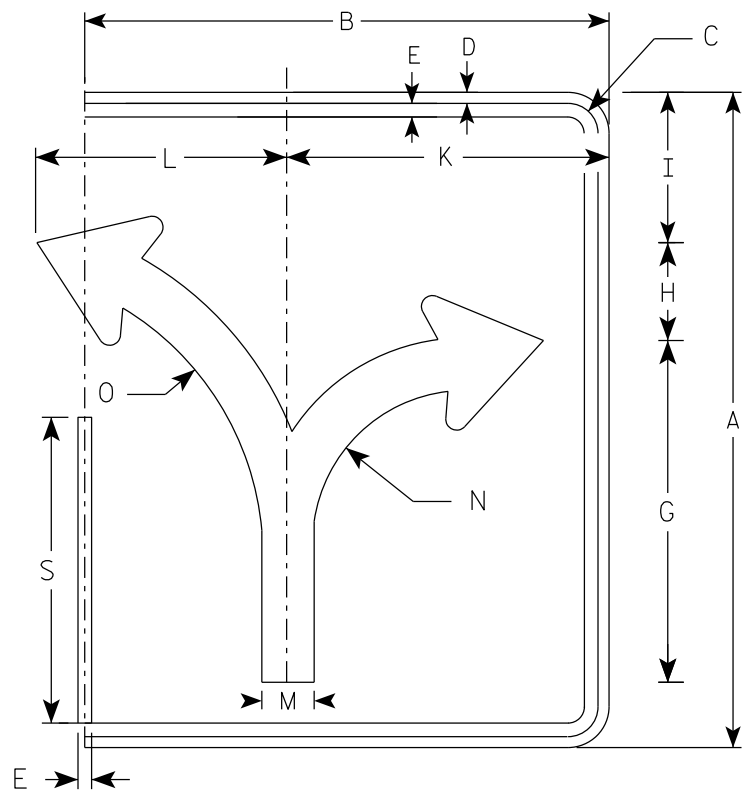
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



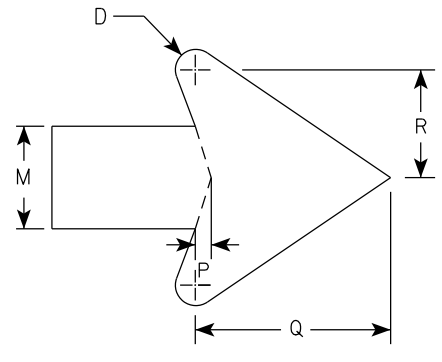
(C)



(C)



(C)



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	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (C) Arrow

WISCONSIN DEPT OF TRANSPORTATION

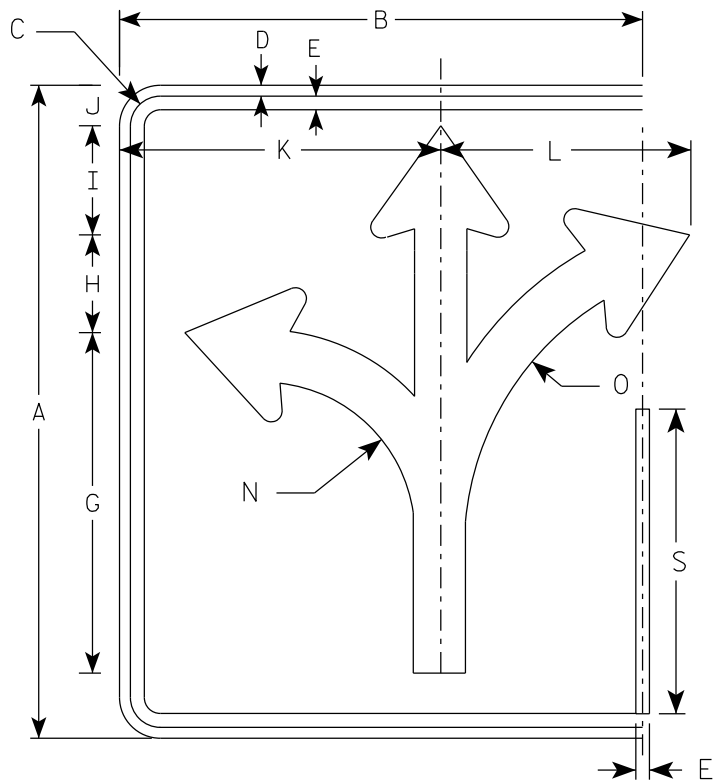
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

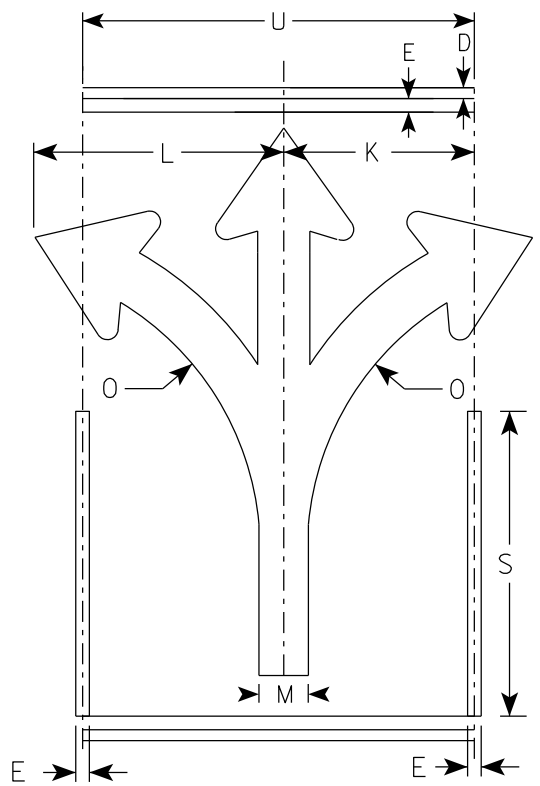
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 455 | E

NOTES

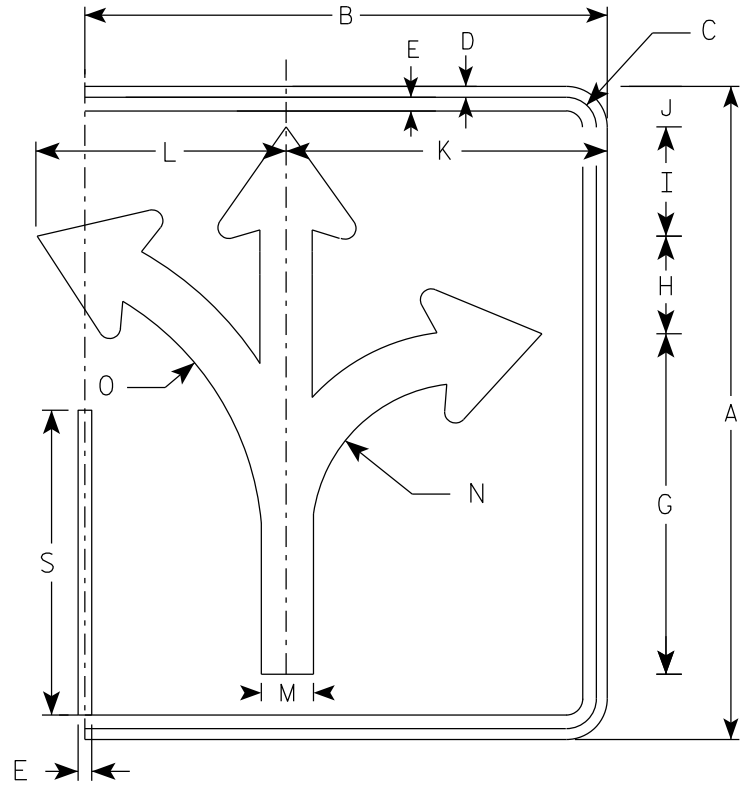
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



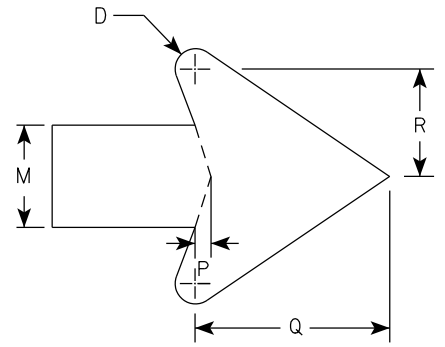
(D)



(D)



(D)



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	ENDS Area sq. ft.	MIDDLE Area sq. ft.
1																												
2S	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		18						5.0	3.75
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	2 1/4	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		24						7.5	6.0
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		30						12.0	10.0

STANDARD SIGN
R3-8 (D) Arrow

WISCONSIN DEPT OF TRANSPORTATION

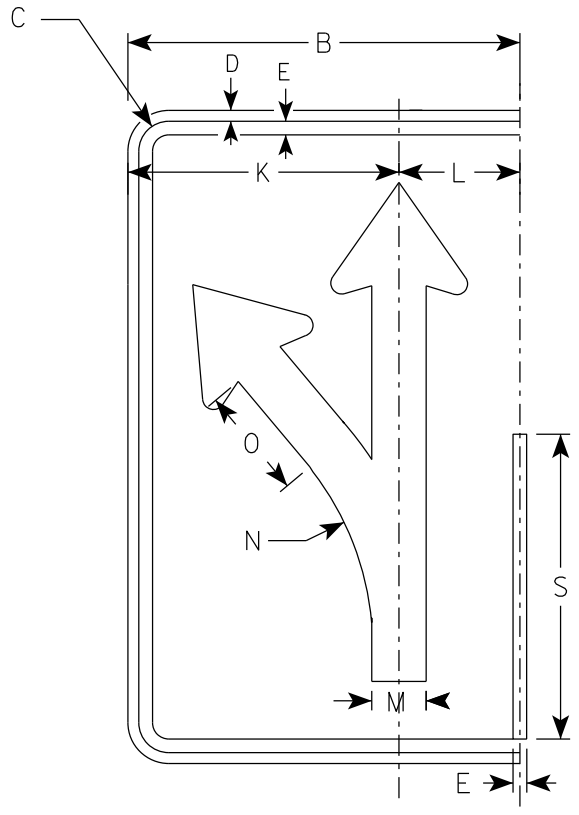
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

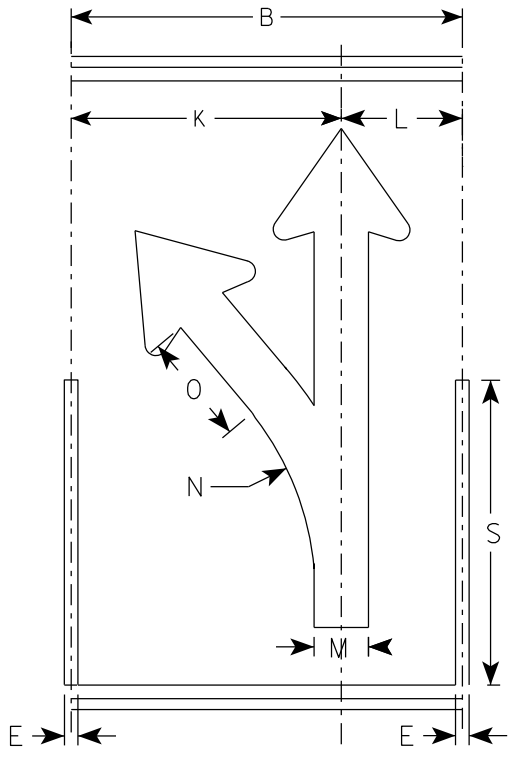
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 456 | E

NOTES

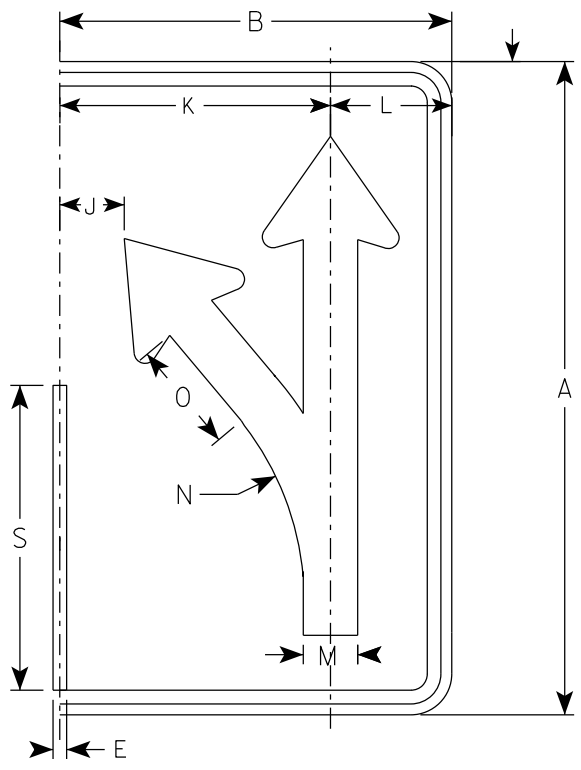
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



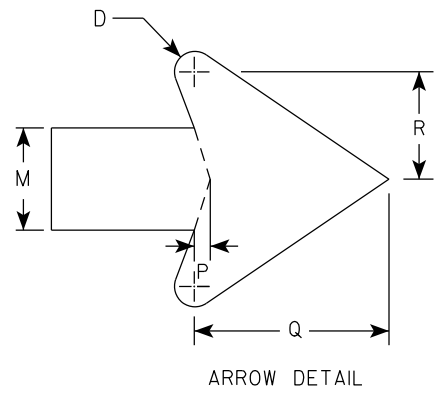
(E)



(E)



(E)



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	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (E) Arrow

WISCONSIN DEPT OF TRANSPORTATION

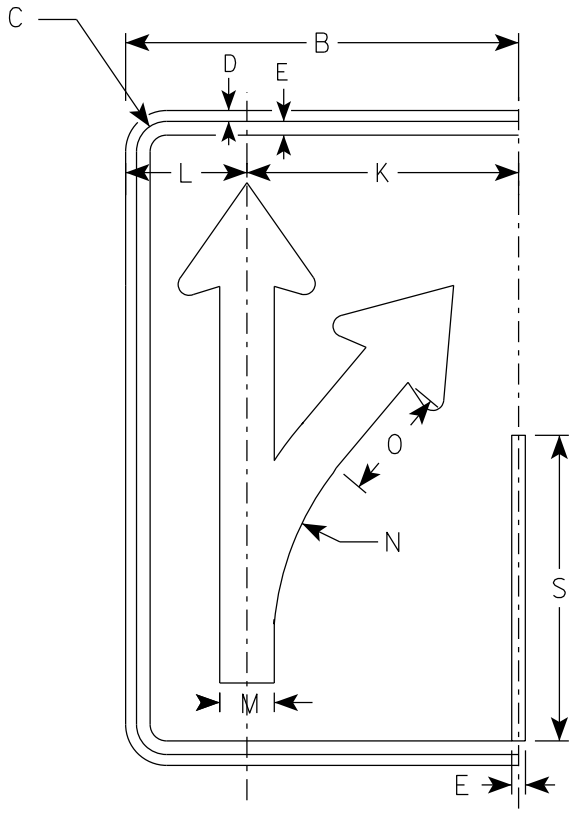
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

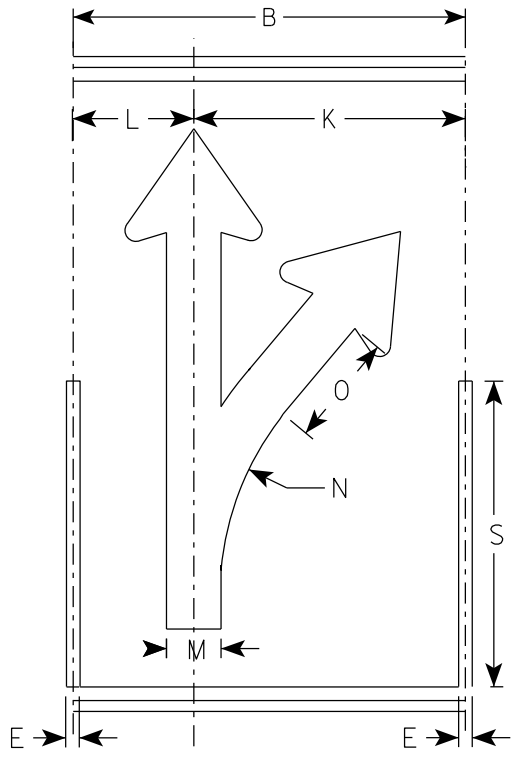
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 457 | E

NOTES

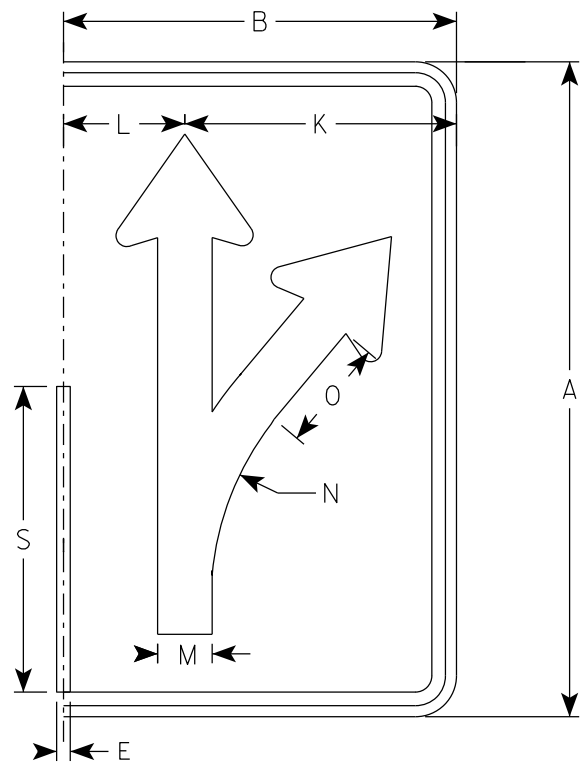
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



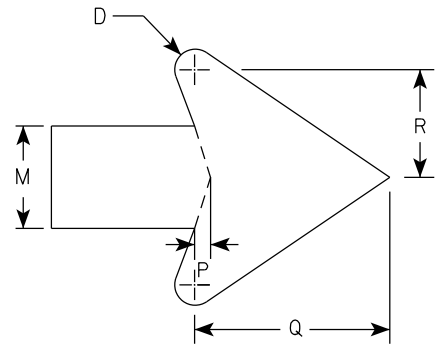
(F)



(F)



(F)



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	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14								3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4								6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8								10.0

STANDARD SIGN
R3-8 (F) Arrow

WISCONSIN DEPT OF TRANSPORTATION

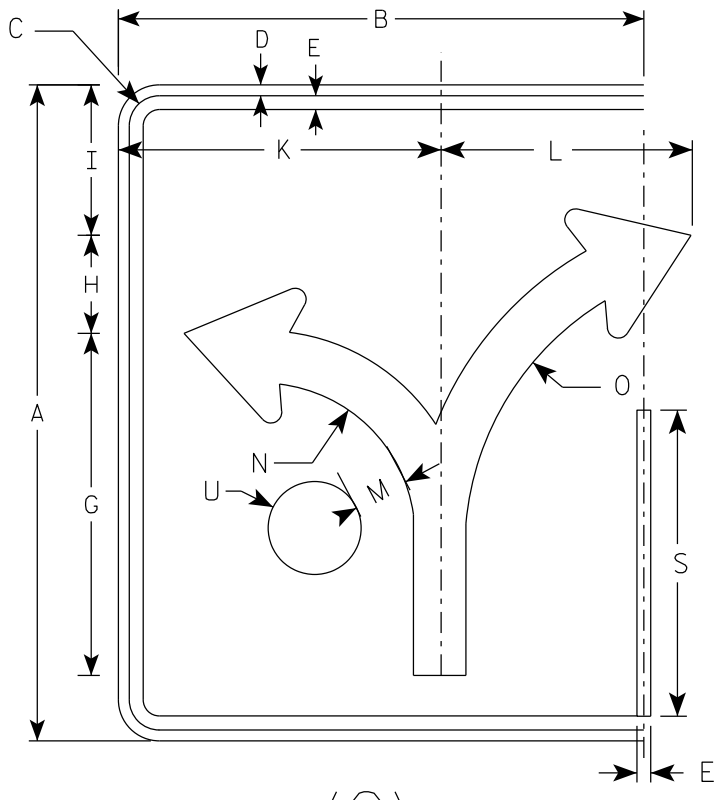
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

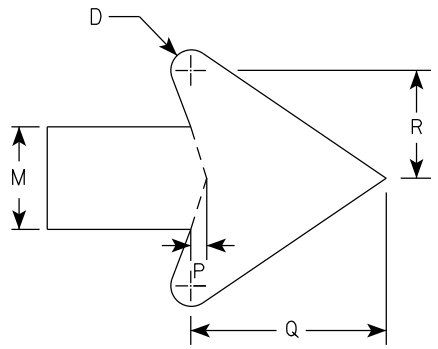
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 458 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(G)



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	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	6 7/8		14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	8 1/4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (G) Arrow

WISCONSIN DEPT OF TRANSPORTATION

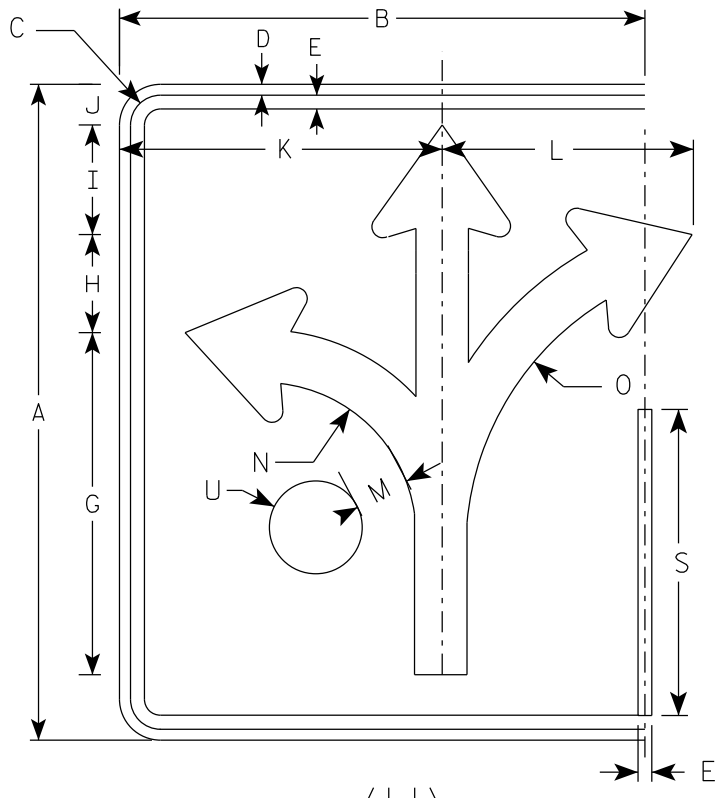
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

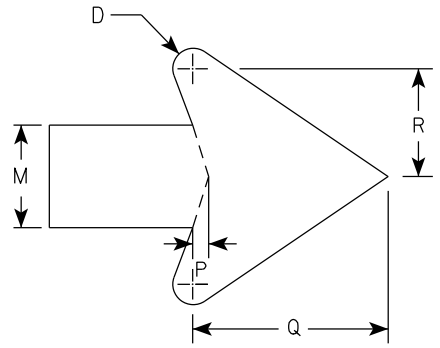
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 459 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(H)



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	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
2M	30	24	1 3/8	1/2	5/8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3/8	4 1/2	2 1/2	14		2 1/8						5.0
3	36	30	1 3/8	1/2	5/8		18 3/4	5 1/2	6	3 1/8	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3/4		2 1/2						7.5
4	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0
5	48	36	2 1/4	3/4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5/8	7 1/8	4	22 3/8		3 3/8						12.0

STANDARD SIGN
R3-8 (H) Arrow

WISCONSIN DEPT OF TRANSPORTATION

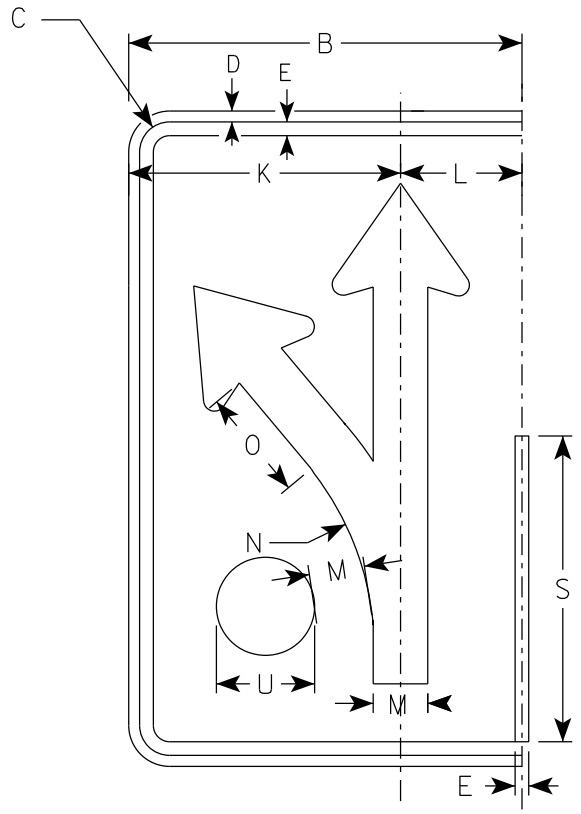
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

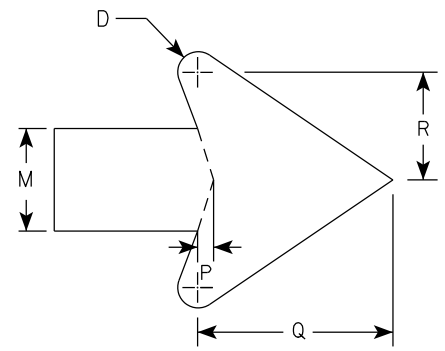
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 460	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(I)



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	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
2M	30	18	1 3/8	1/2	5/8		18 1/4	4 3/4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3/8	4 3/4	2 5/8	14		2 1/8						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4		2 1/2						6.0
4	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0
5	48	30	2 1/4	3/4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/2	4	21 1/4	8 1/4	5/8	7 5/8	4 1/4	22 3/8		3 3/8						10.0

STANDARD SIGN
R3-8 (I) Arrow

WISCONSIN DEPT OF TRANSPORTATION

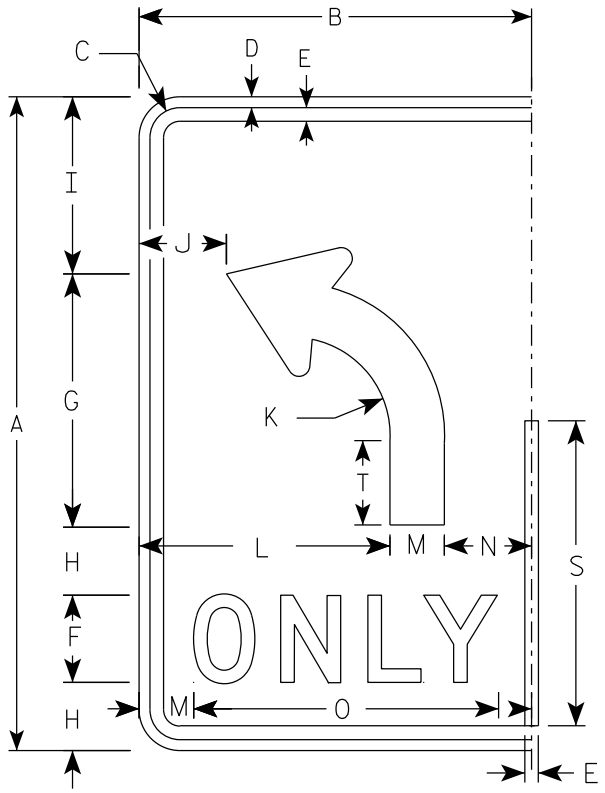
APPROVED Matthew R Rauch
For State Traffic Engineer

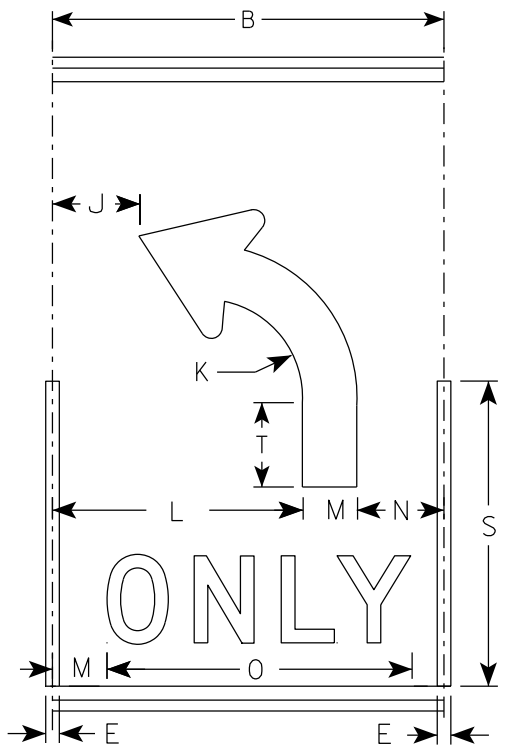
DATE 5/21/19 PLATE NO. R3-8.1

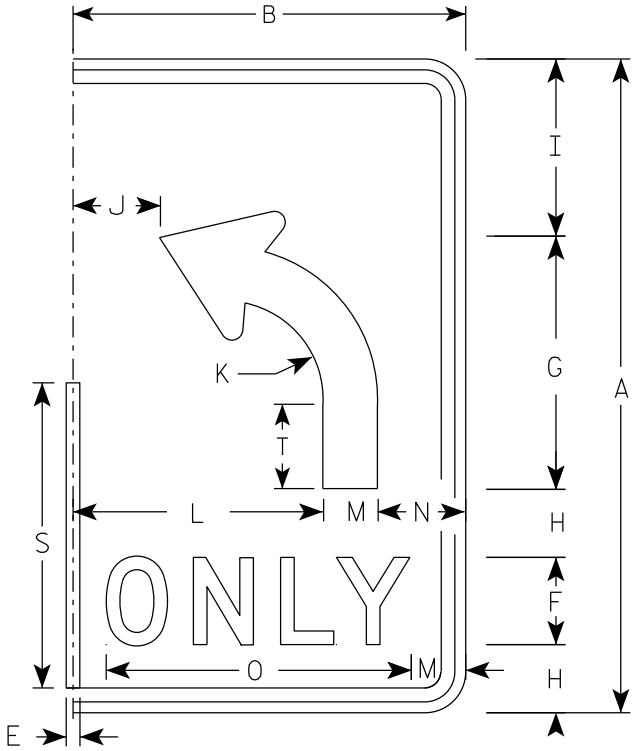
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 461 | E

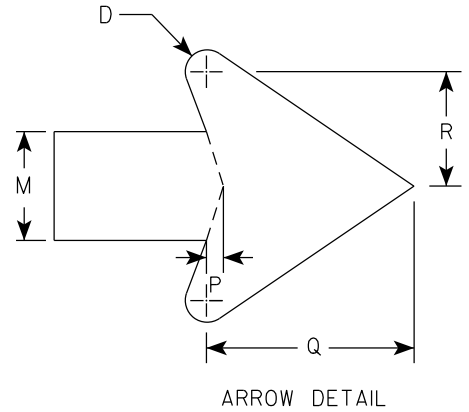
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D









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	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4		5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN

R3-8 (L) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

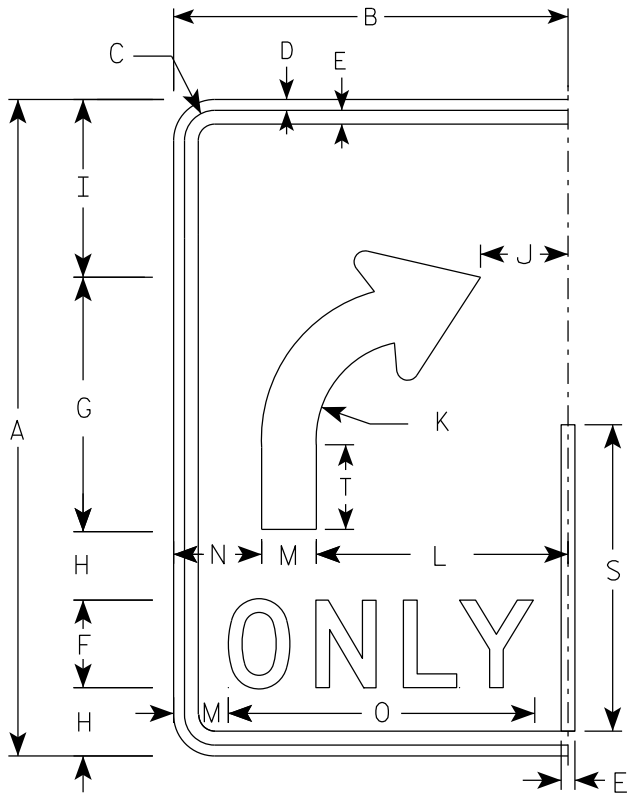
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

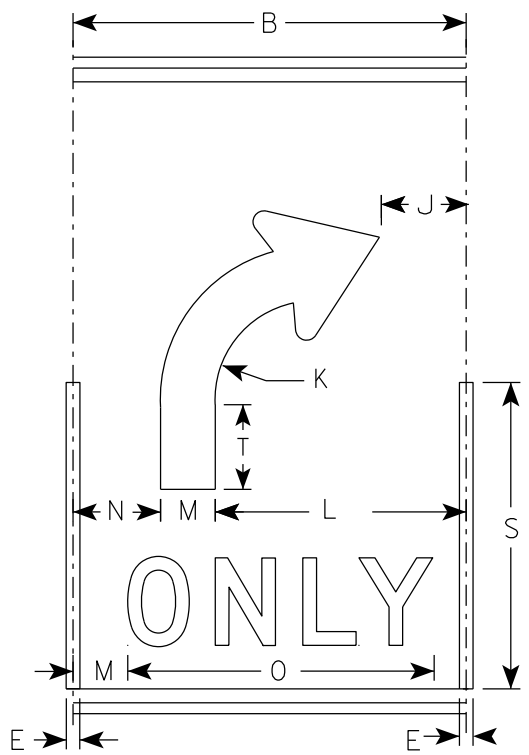
SHEET NO: 462 E

NOTES

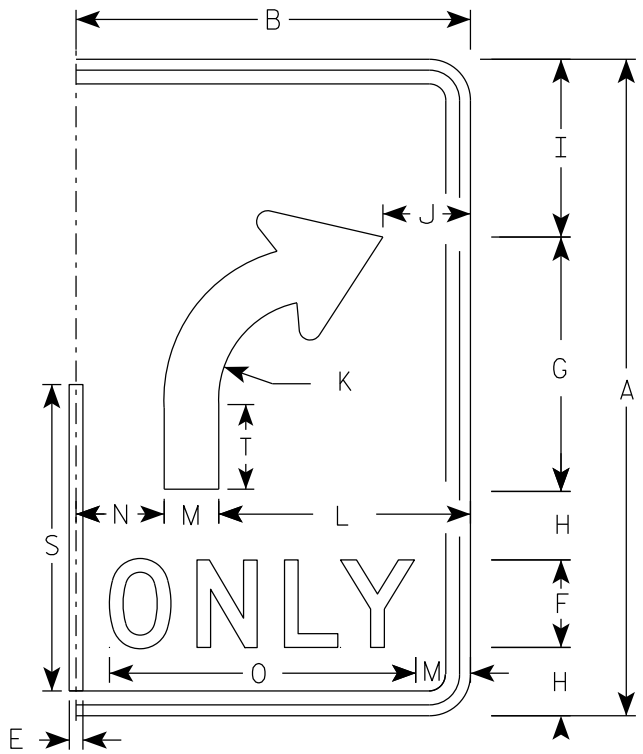
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



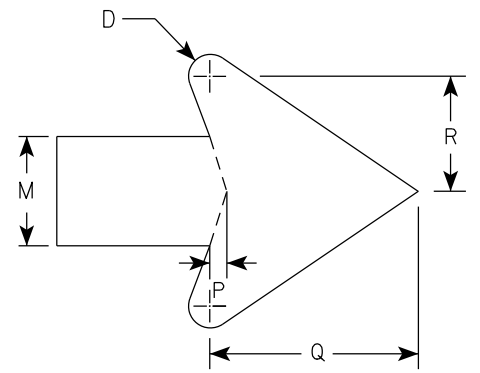
(R)



(R)



(R)



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	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
2M	30	18	1 3/8	1/2	5/8	4	11 5/8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8							3.75
3	36	24	1 3/8	1/2	5/8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3/4	3 1/8	16 3/4	4 5/8							6.0
4	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0
5	48	30	2 1/4	3/4	1	6	18 5/8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3/4	5/8	7 5/8	4 1/4	22 3/8	6 1/4							10.0

STANDARD SIGN
R3-8 (R) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

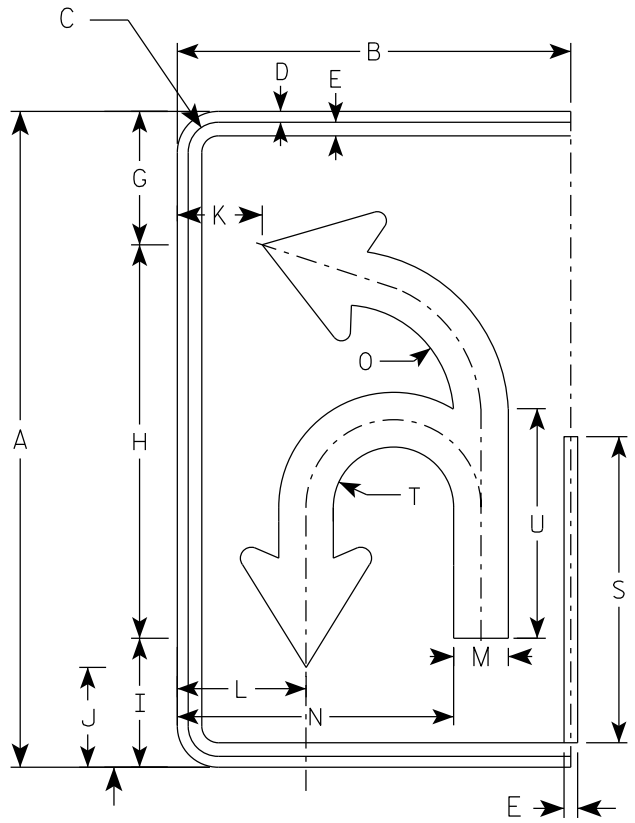
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

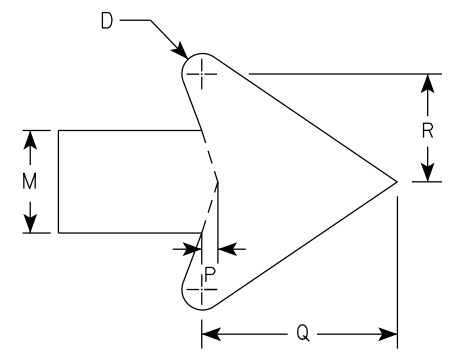
SHEET NO: 463 E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



(U)



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	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
2M	30	18	1 3/8	1/2	5/8		6 1/8	18	5 7/8	4 5/8	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3/8	4 3/4	2 5/8	14	2 3/4	10 1/2						3.75
3	36	24	1 3/8	1/2	5/8		21 7/8	21 5/8	7 1/8	5 1/2	5 7/8	8 1/4	3	16 3/8	6 1/8	1/2	5 3/4	3 1/8	16 3/4	3 1/4	12 5/8						6.0
4	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0
5	48	30	2 1/4	3/4	1		29 1/8	28 3/4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5/8	7 5/8	4 1/4	22 3/8	4 3/8	16 3/4						10.0

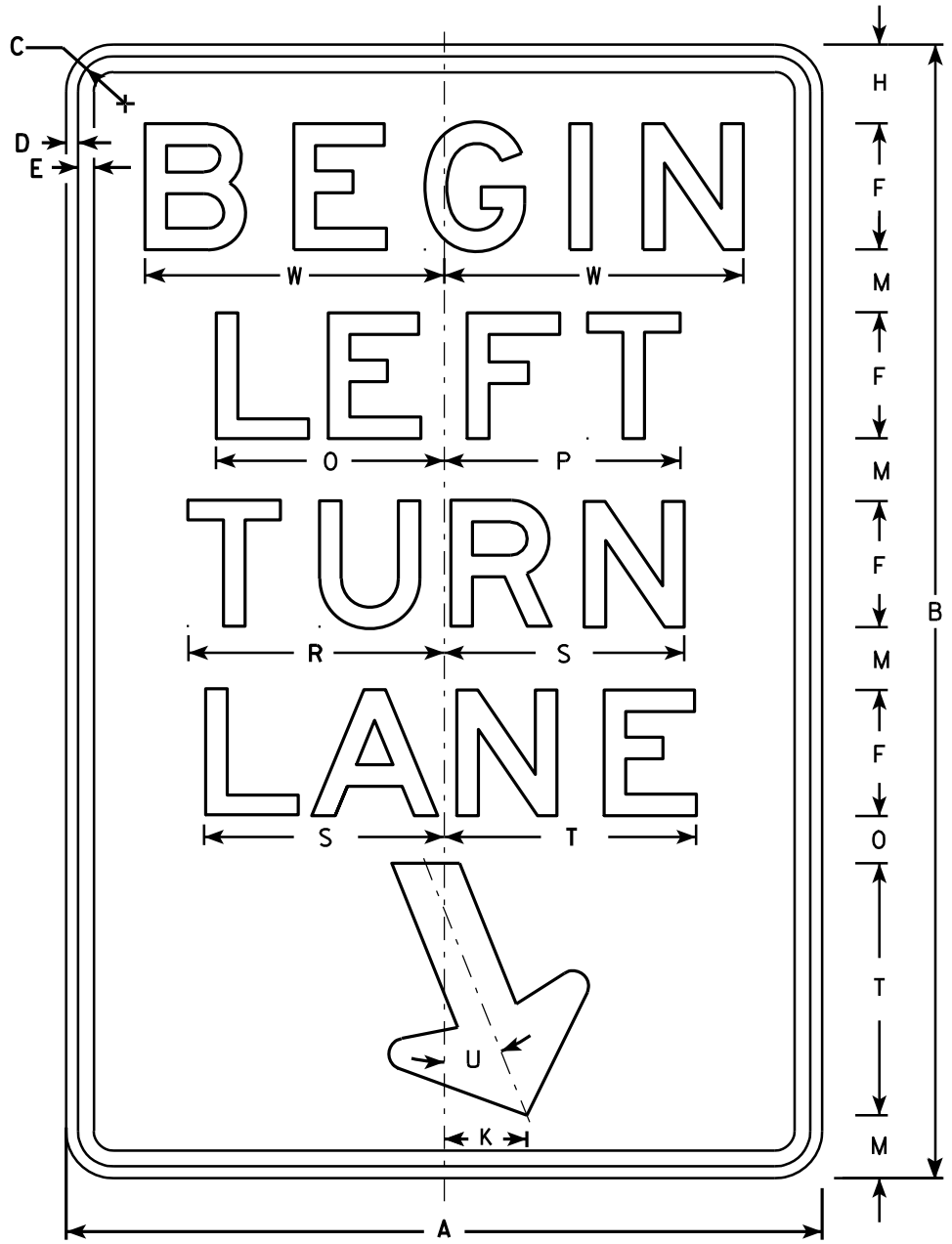
STANDARD SIGN
R3-8 (U) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

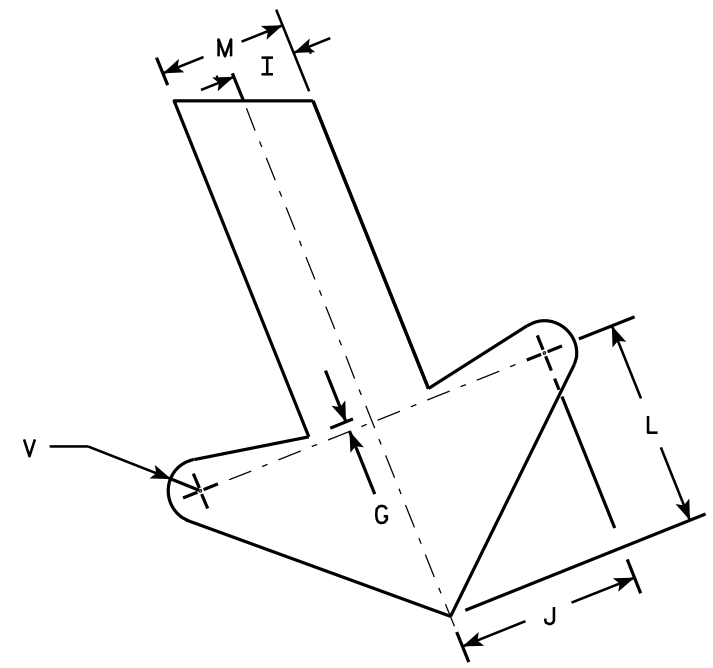
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 464 | E



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																											

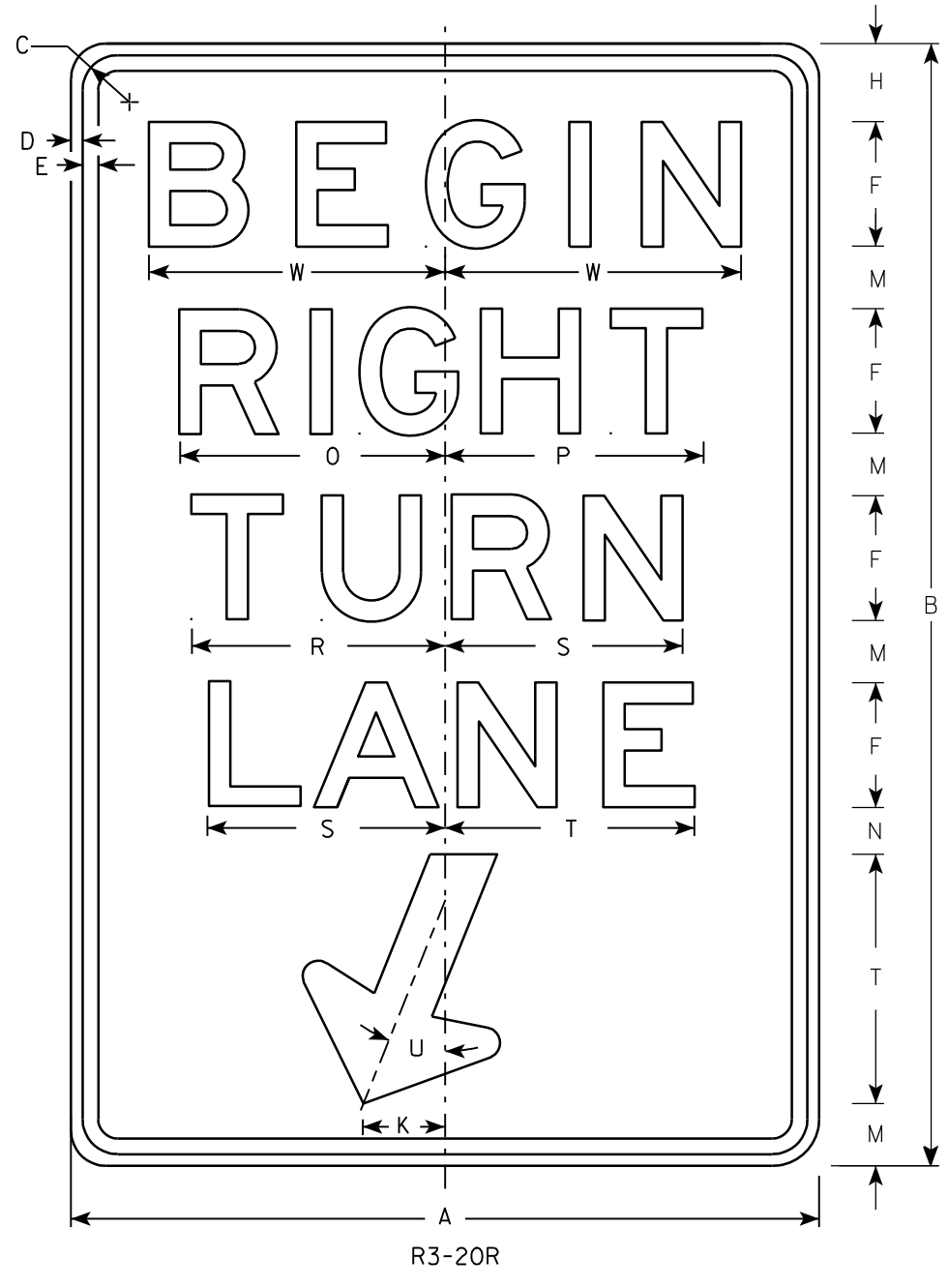
STANDARD SIGN
R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

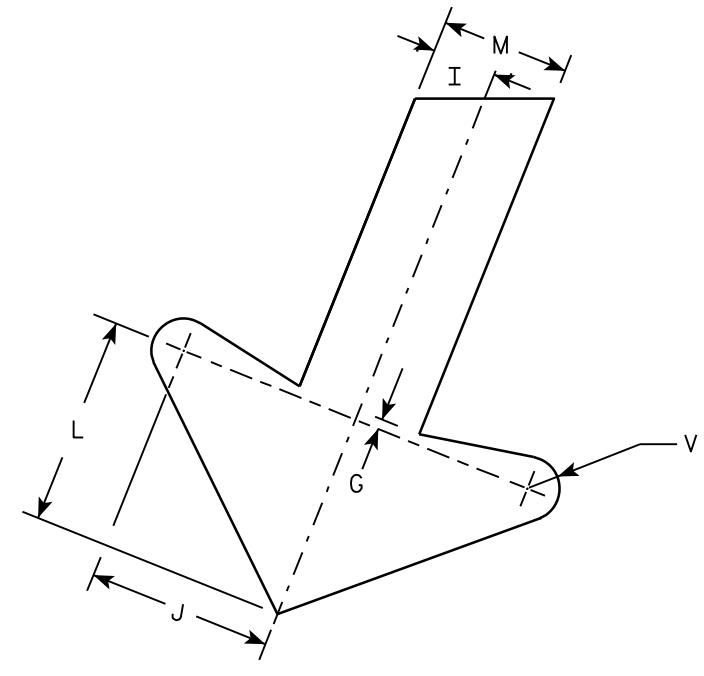
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 465 | E



R3-20R

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	8 1/2	8 1/4		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	8 1/2	8 1/4		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	12 3/4	12 1/2		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

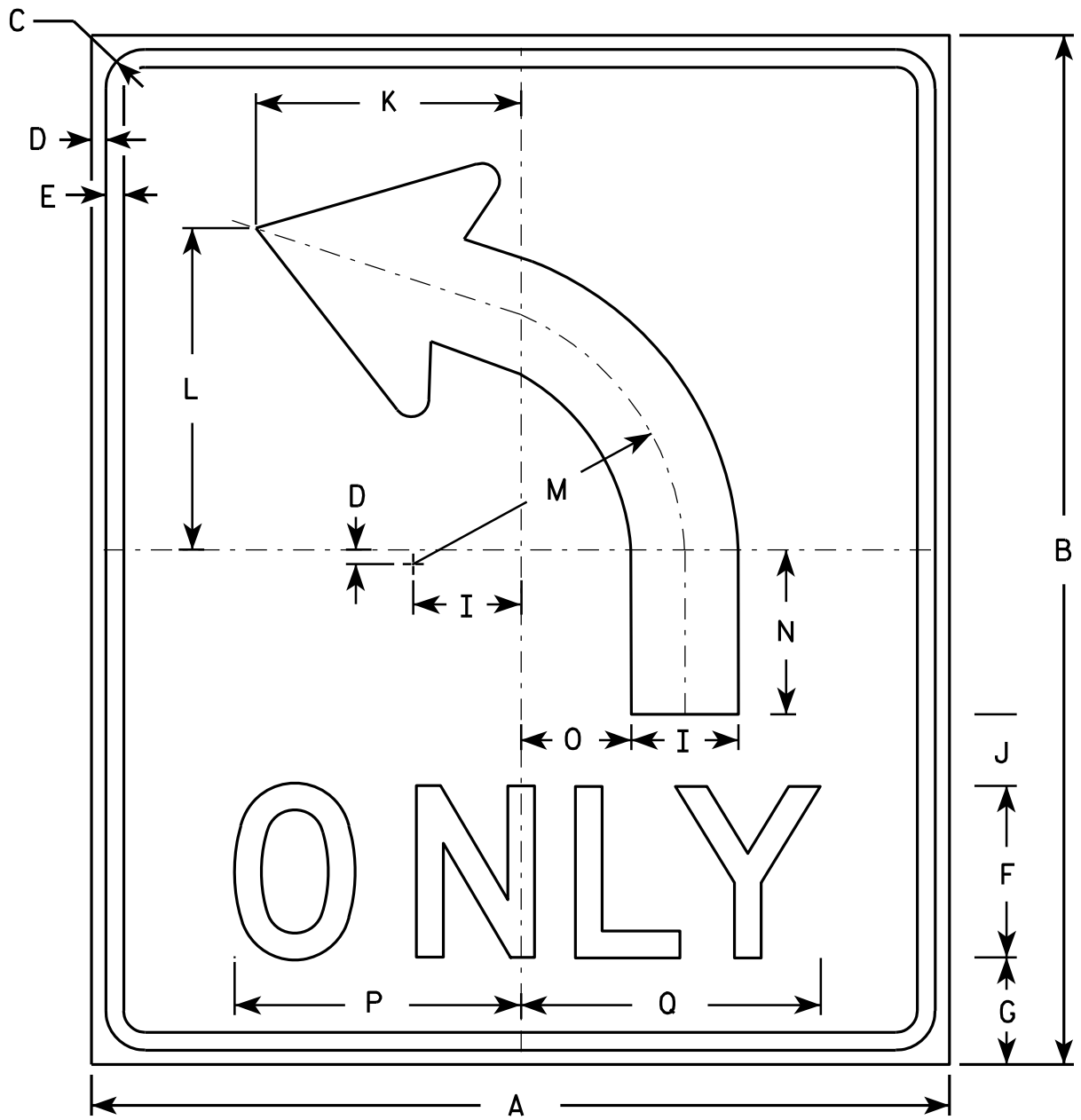
STANDARD SIGN
R3-20R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20R.6

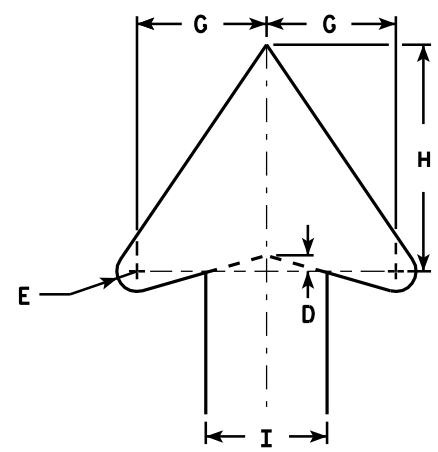
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 466 | E



R3-50L

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. R3-50R is the same as R3-50L except curved portion of arrow points right.



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	6	4	7	3 3/4	2 1/2	9 1/4	11 1/4	9 1/2	5 3/4	3 7/8	10	10 1/2										7.5
2M	30	36	1 3/8	1/2	5/8	6	4	7	3 3/4	2 1/2	9 1/4	11 1/4	9 1/2	5 3/4	3 7/8	10	10 1/2										7.5
3																											
4																											
5																											

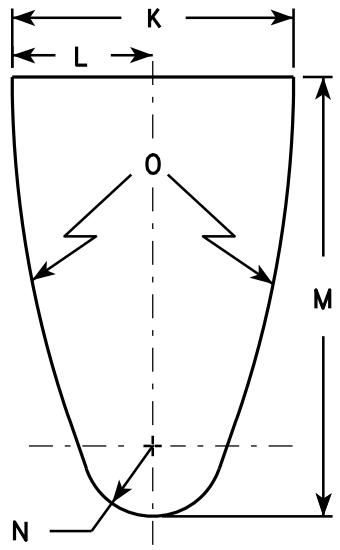
STANDARD SIGN
R3-50

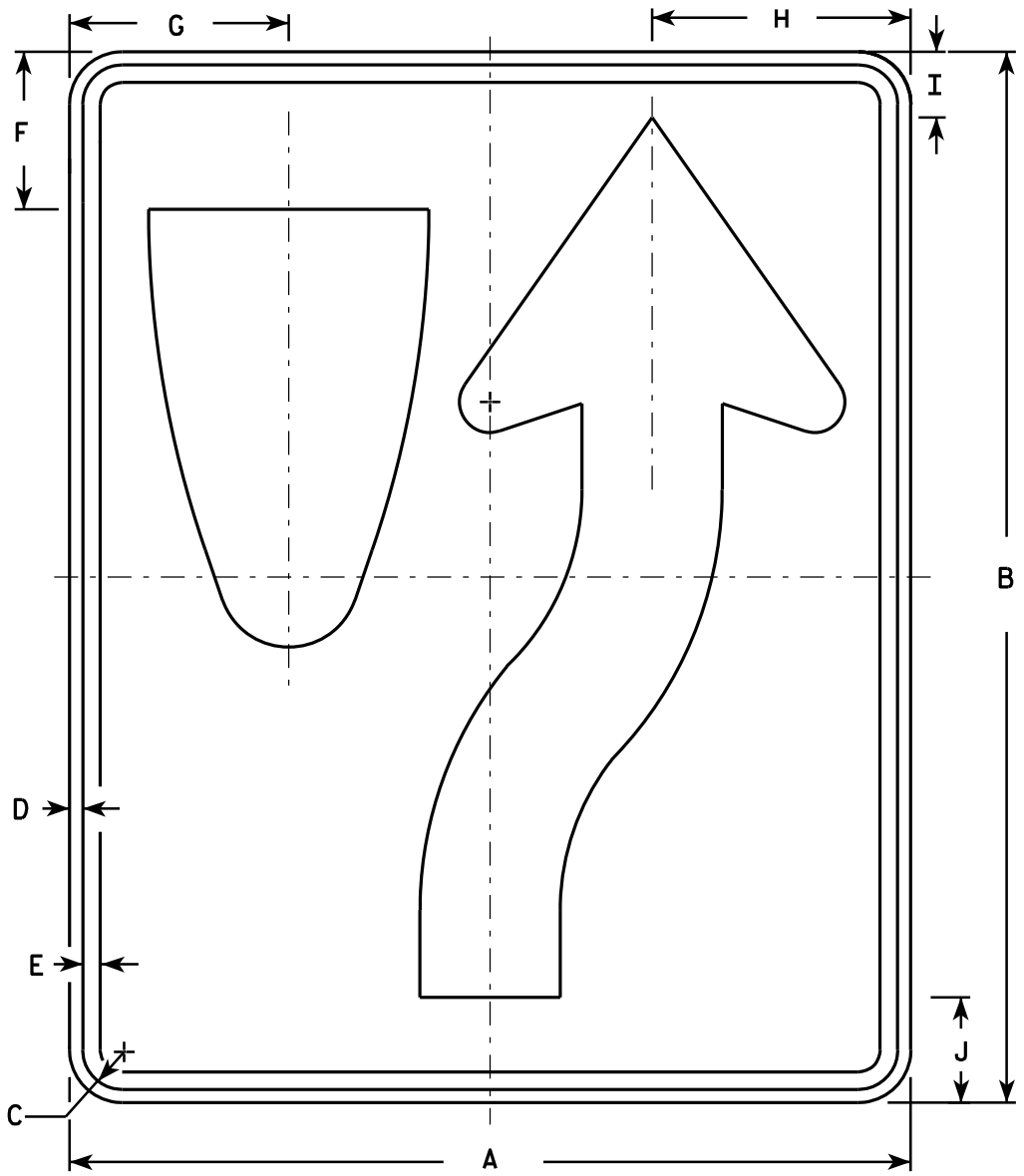
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-50.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 467	E

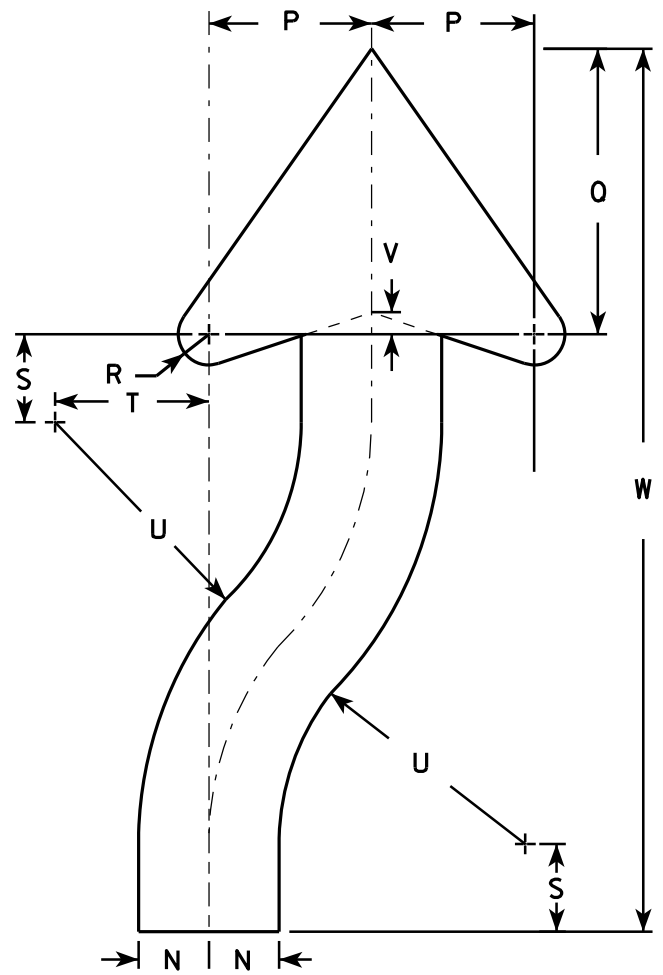




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

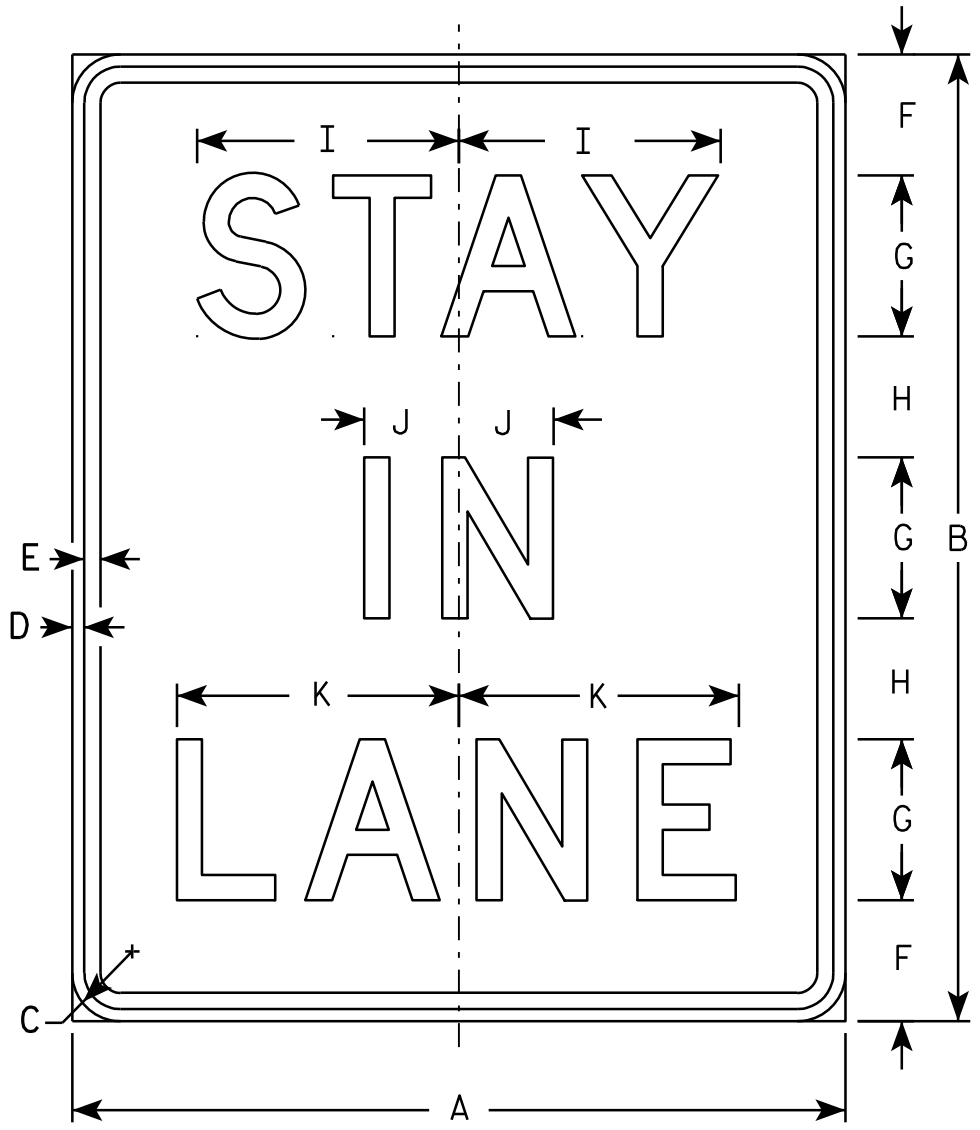
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 468	E



R4-9

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	3/8	3	4	3	6 1/2	2 3/8	7																3.0
2S	24	30	1 1/8	3/8	1/2	3 5/8	5	3 7/8	8 1/8	3	8 3/4																5.0
2M	24	30	1 1/8	3/8	1/2	3 5/8	5	3 7/8	8 1/8	3	8 3/4																5.0
3	36	48	1 3/8	1/2	5/8	8 1/4	7	5 1/4	11 3/8	4 1/8	12 1/4																12.0
4	36	48	1 3/8	1/2	5/8	8 1/4	7	5 1/4	11 3/8	4 1/8	12 1/4																12.0
5	48	60	2 1/4	3/4	1	7 1/2	10	7 1/2	16 1/4	5 7/8	17 1/2																20.0

STANDARD SIGN
R4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-9.2

PROJECT NO:

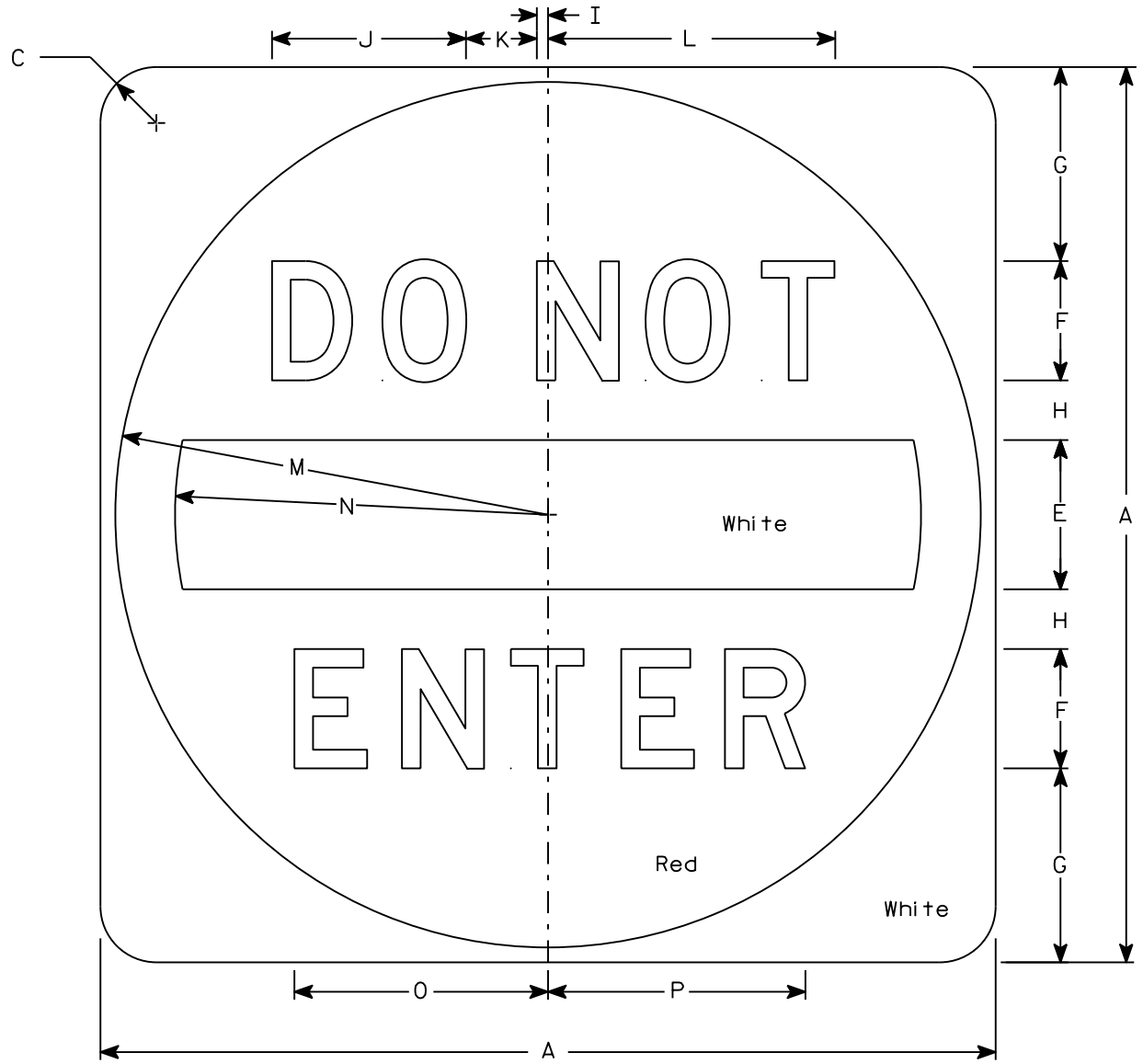
SHEET NO: 469 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R49.DGN PLOT DATE : 25-MAR-2011 14:17 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

7

7



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

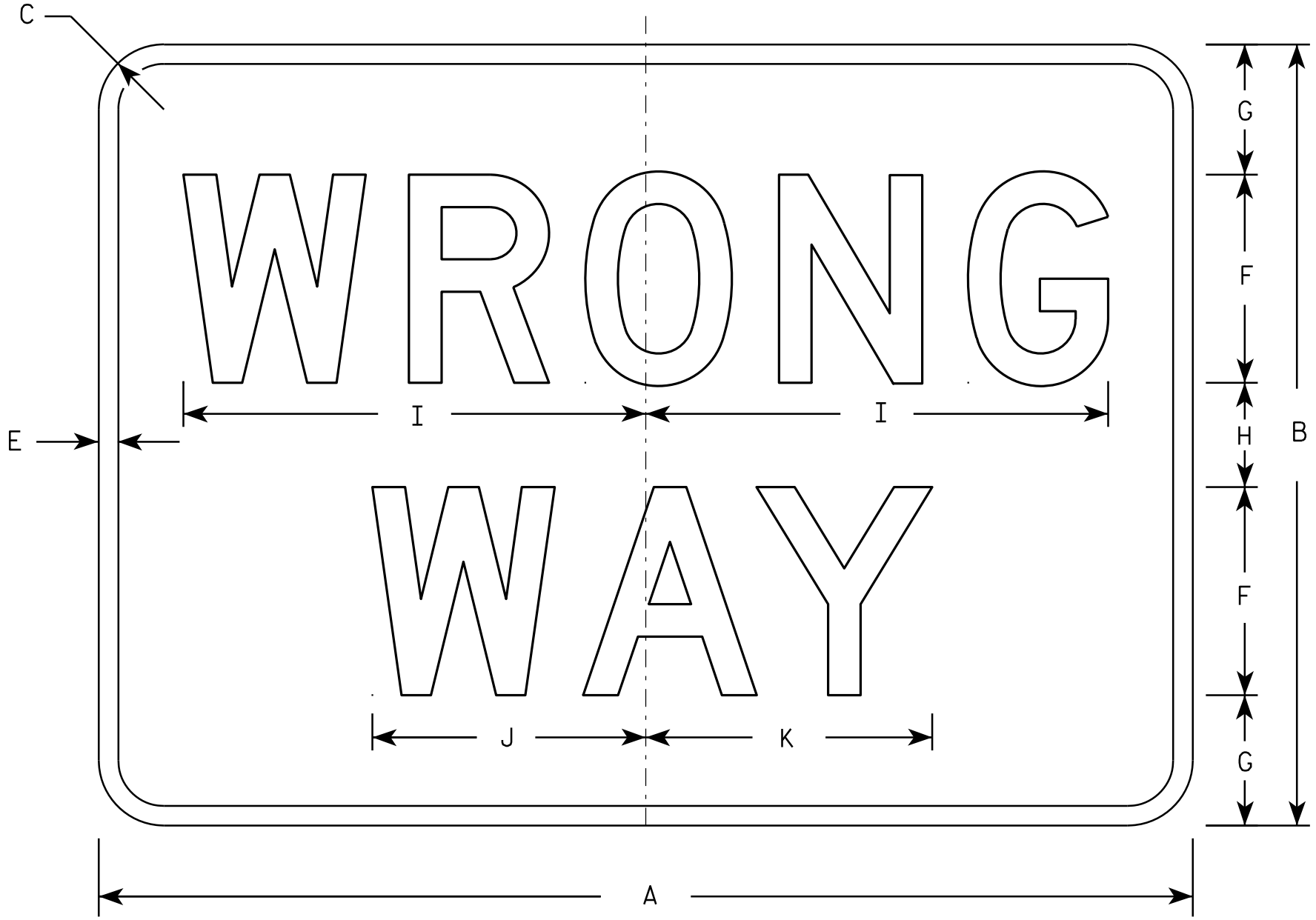
STANDARD SIGN
R5-1

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: 470 | E



R5-1A

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 - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75

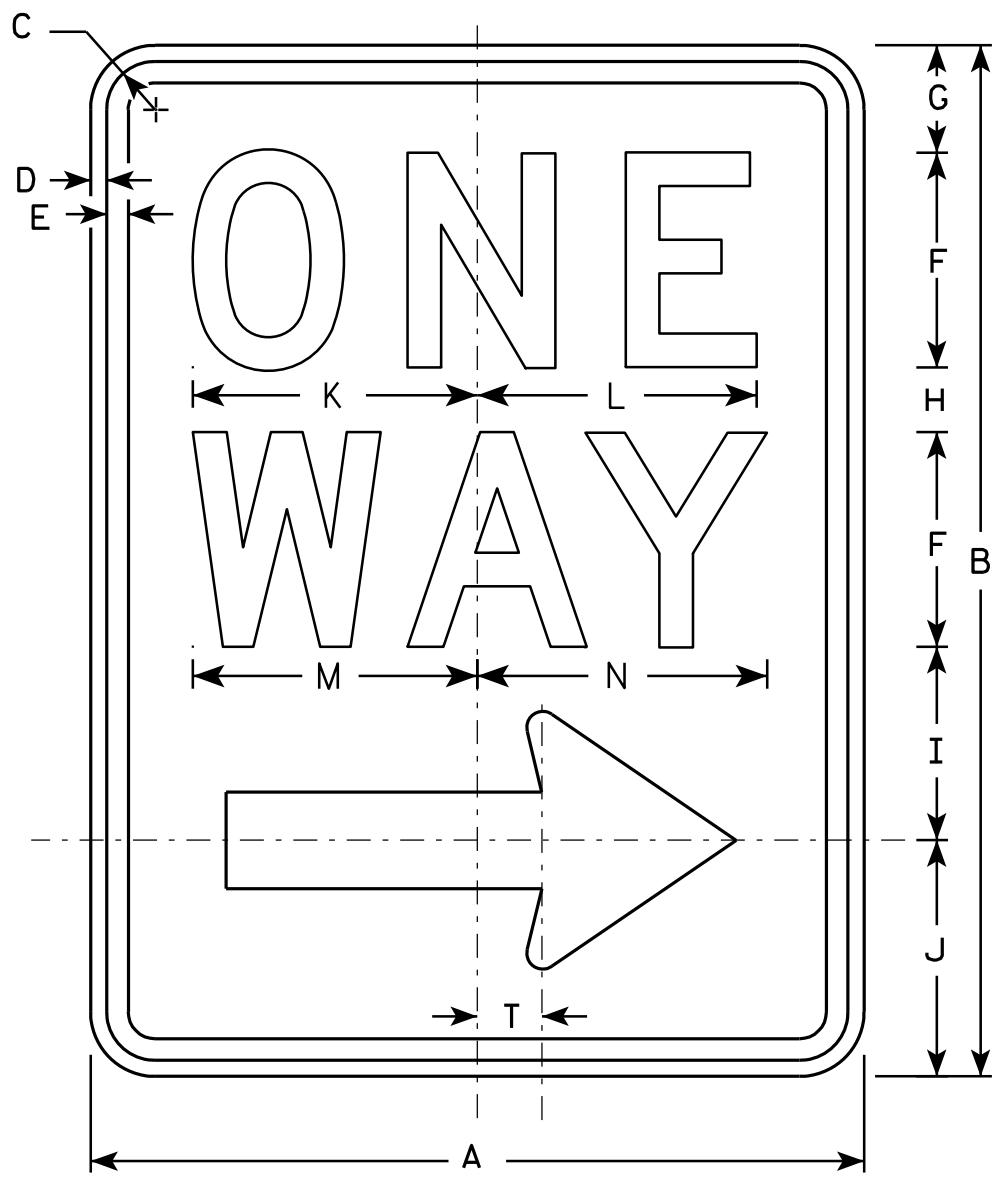
STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

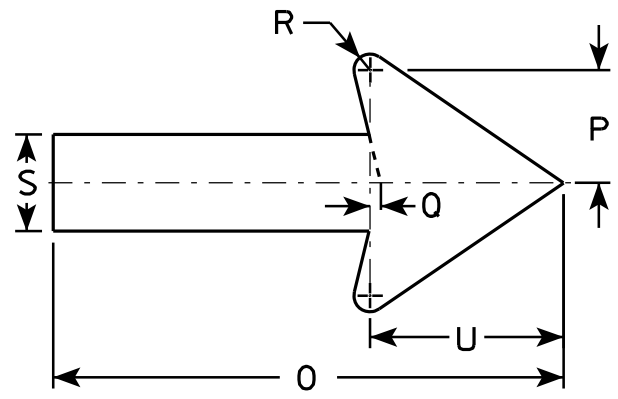
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 471	E



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	O	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

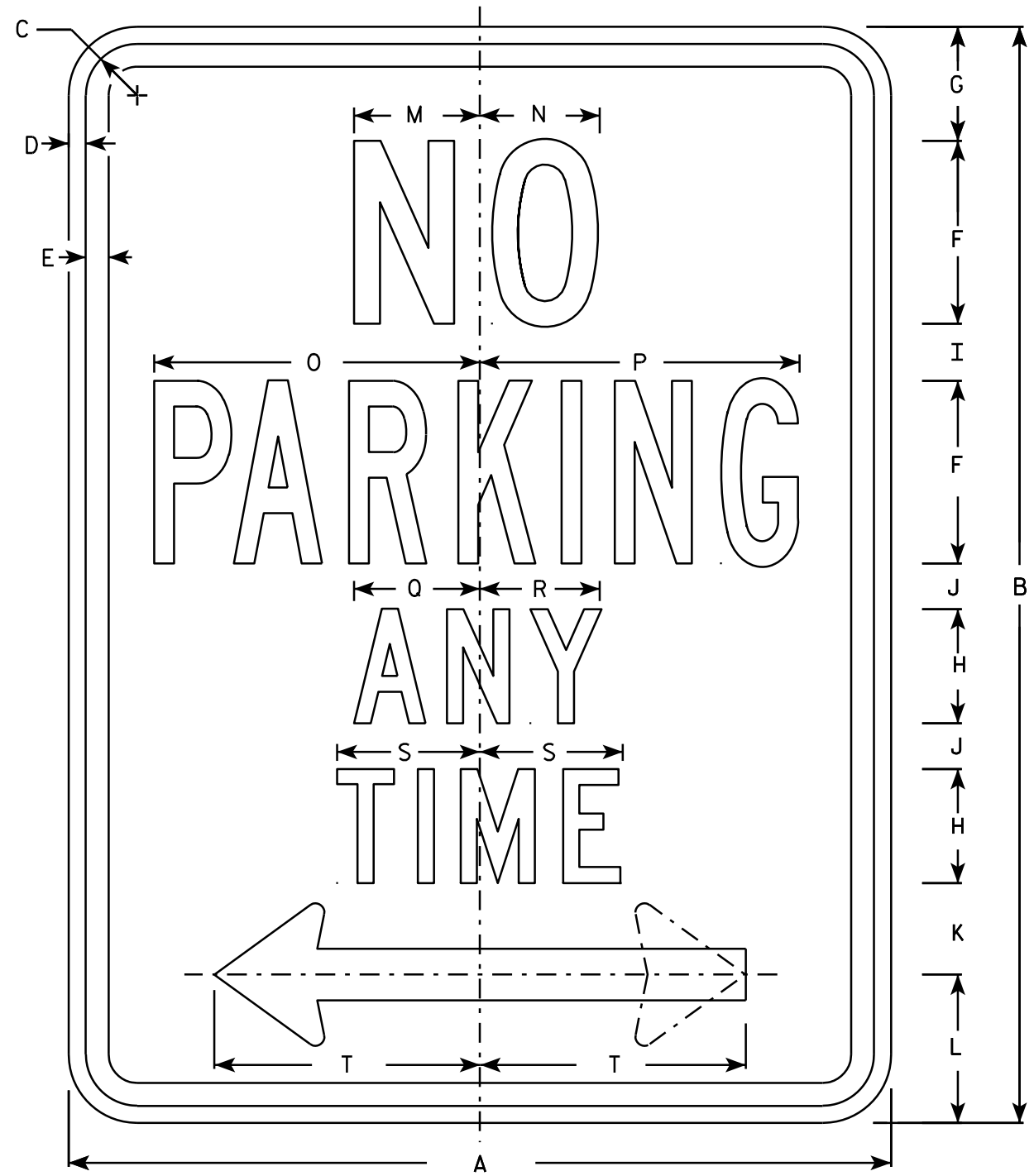
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

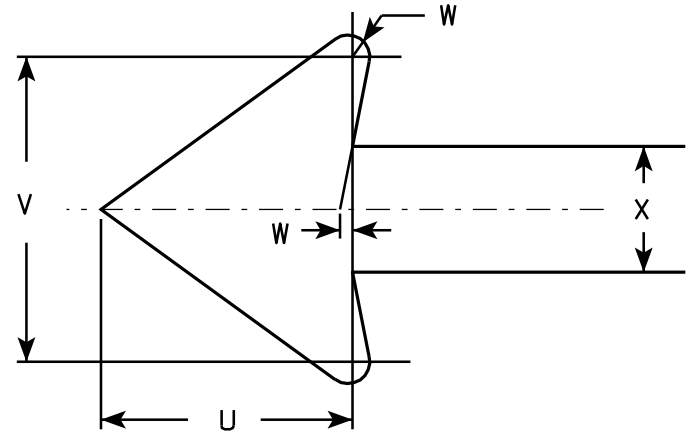
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 472	E



R7-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

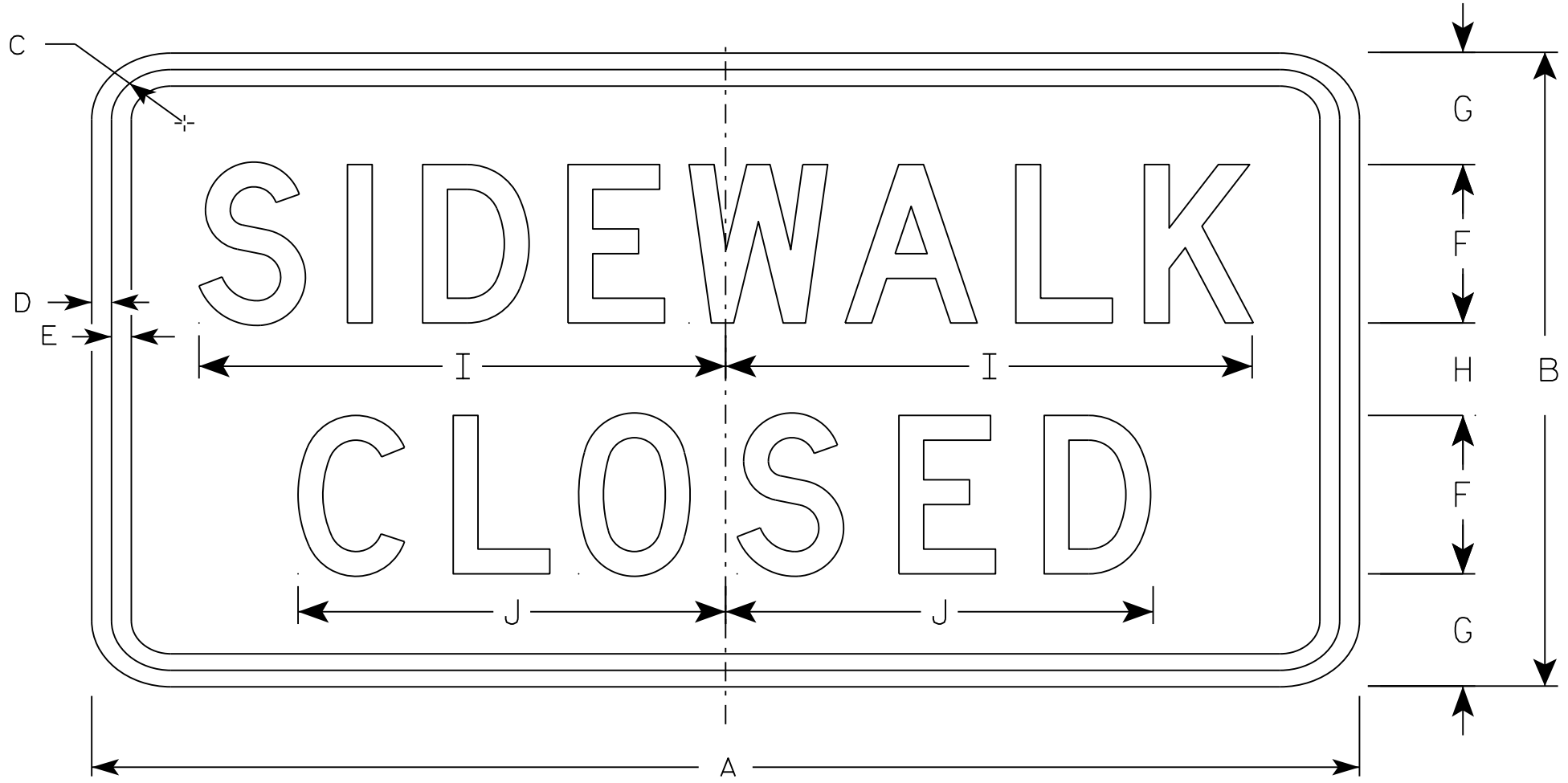
STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 473	E



R9-9

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
2M	24	12	1 3/4	1/2	1/2	3	2 1/8	1 3/4	10	8 1/8																	2.0
3	30	18	1 3/4	1/2	1/2	4	3 1/2	3	12 1/2	10 1/4																	3.75
4																											
5																											

STANDARD SIGN
R9-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

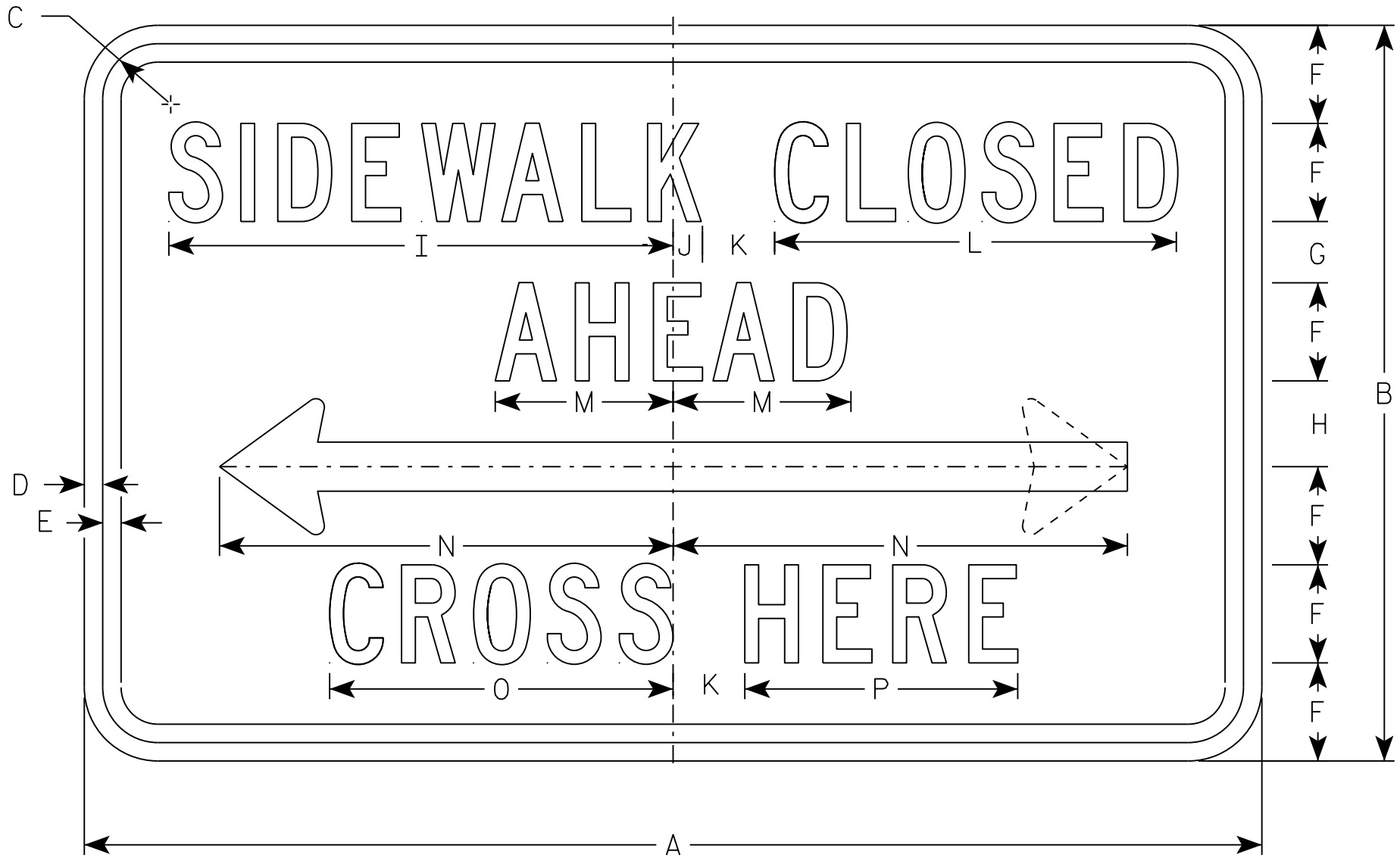
DATE 8/11/16 PLATE 474 R9-9.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

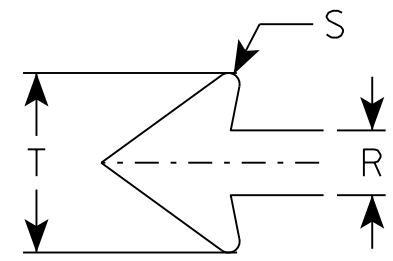
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R99.DGN PLOT DATE : 11-AUG-2016 11:33 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 2.918761:1.000000

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C except Size 1 is Series D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.



R9-11



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 5/8	3 1/2	9 1/4	6 5/8	5 1/8		1	1/8	2 3/4							2.0
2M	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 5/8	3 1/2	9 1/4	6 5/8	5 1/8		1	1/8	2 3/4							2.0
3	30	15	1 1/8	3/8	1/2	2	1 1/2	1 1/2	13	3/4	2	10 1/4	4 5/8	12 3/8	8 7/8	6 7/8		1 1/4	1/4	3 5/8							3.125
4																											
5																											

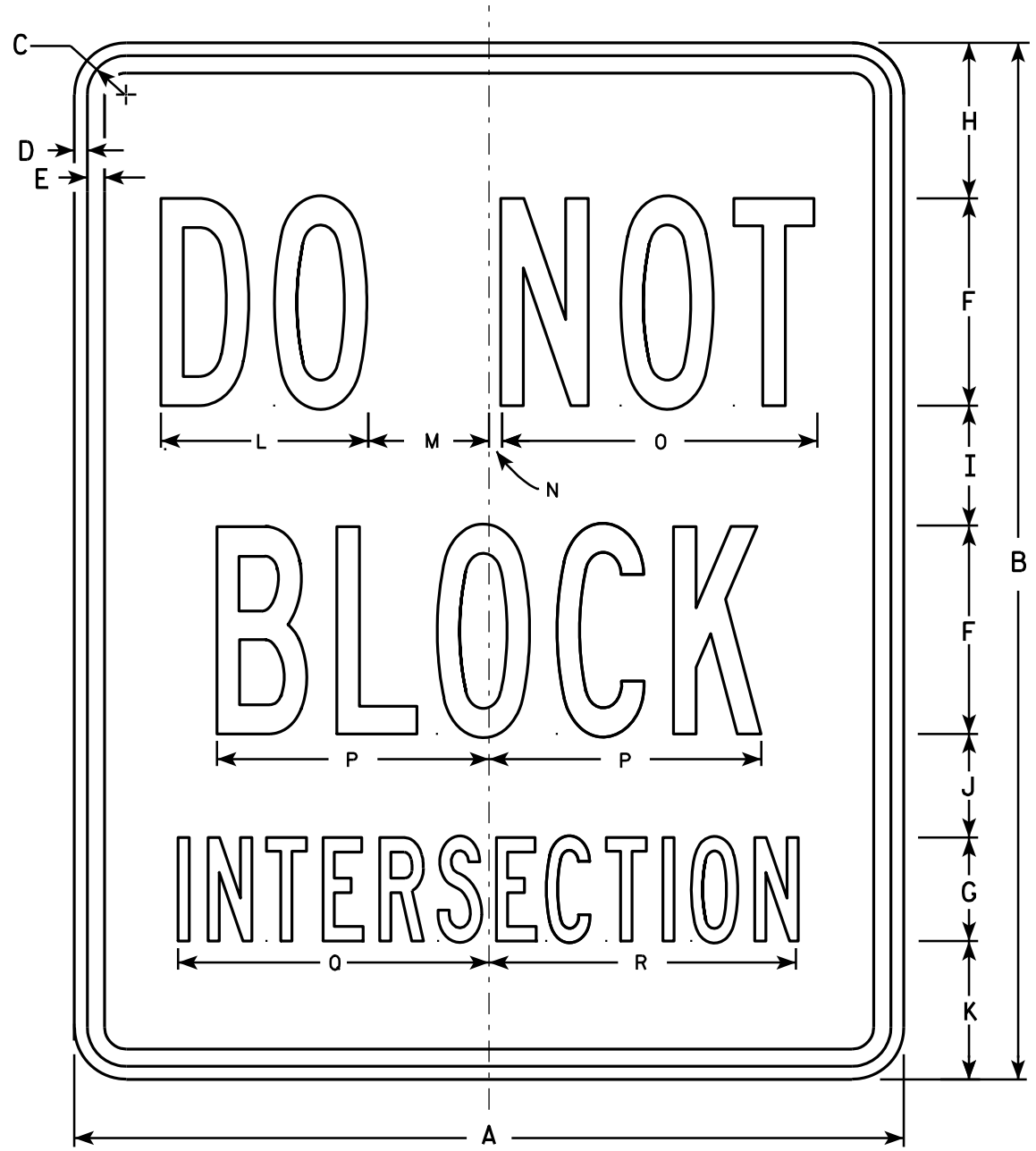
STANDARD SIGN
R9-11

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/29/16 PLATE NO. R9-11.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 475	E



R10-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/8	3/8	1/2	6	3	4 1/2	3 1/2	3	4	6	3 1/2	3/8	9 1/8	7 7/8	9	8 7/8									5.0
2M	24	30	1 1/8	3/8	1/2	6	3	4 1/2	3 1/2	3	4	6	3 1/2	3/8	9 1/8	7 7/8	9	8 7/8									5.0
3	36	48	1 3/8	1/2	5/8	10	5	7	5 1/4	4 1/2	6 1/4	10	5 5/8	1/2	15 1/8	13 1/8	15	14 7/8									12.0
4																											
5																											

STANDARD SIGN
R10-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/5/11 PLATE NO. R10-7.5

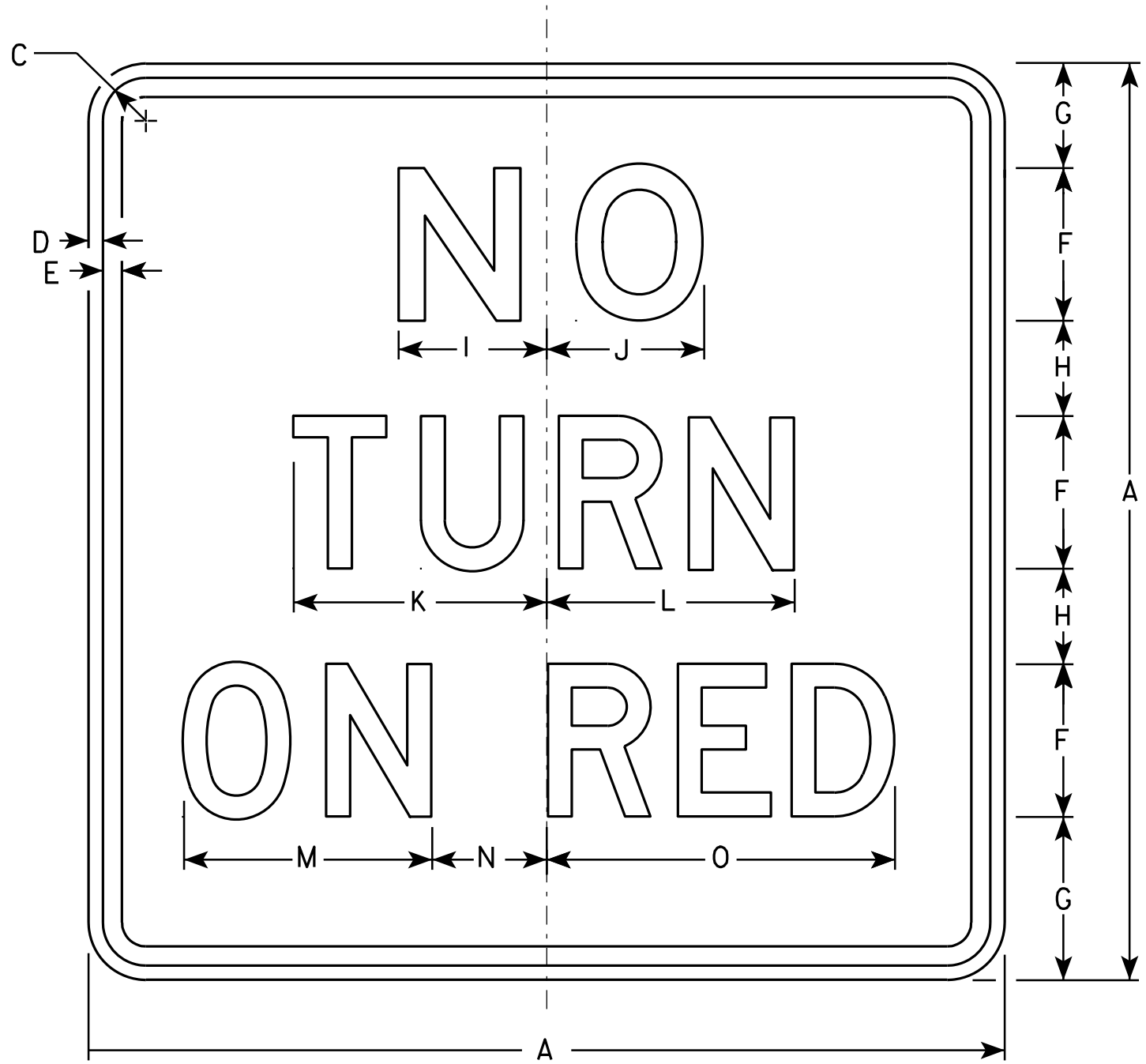
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 476	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R107.DGN PLOT DATE : 05-APR-2011 09:44 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 4.965868:1.000000

WISDOT/CADDS SHEET 42

7

7



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																											

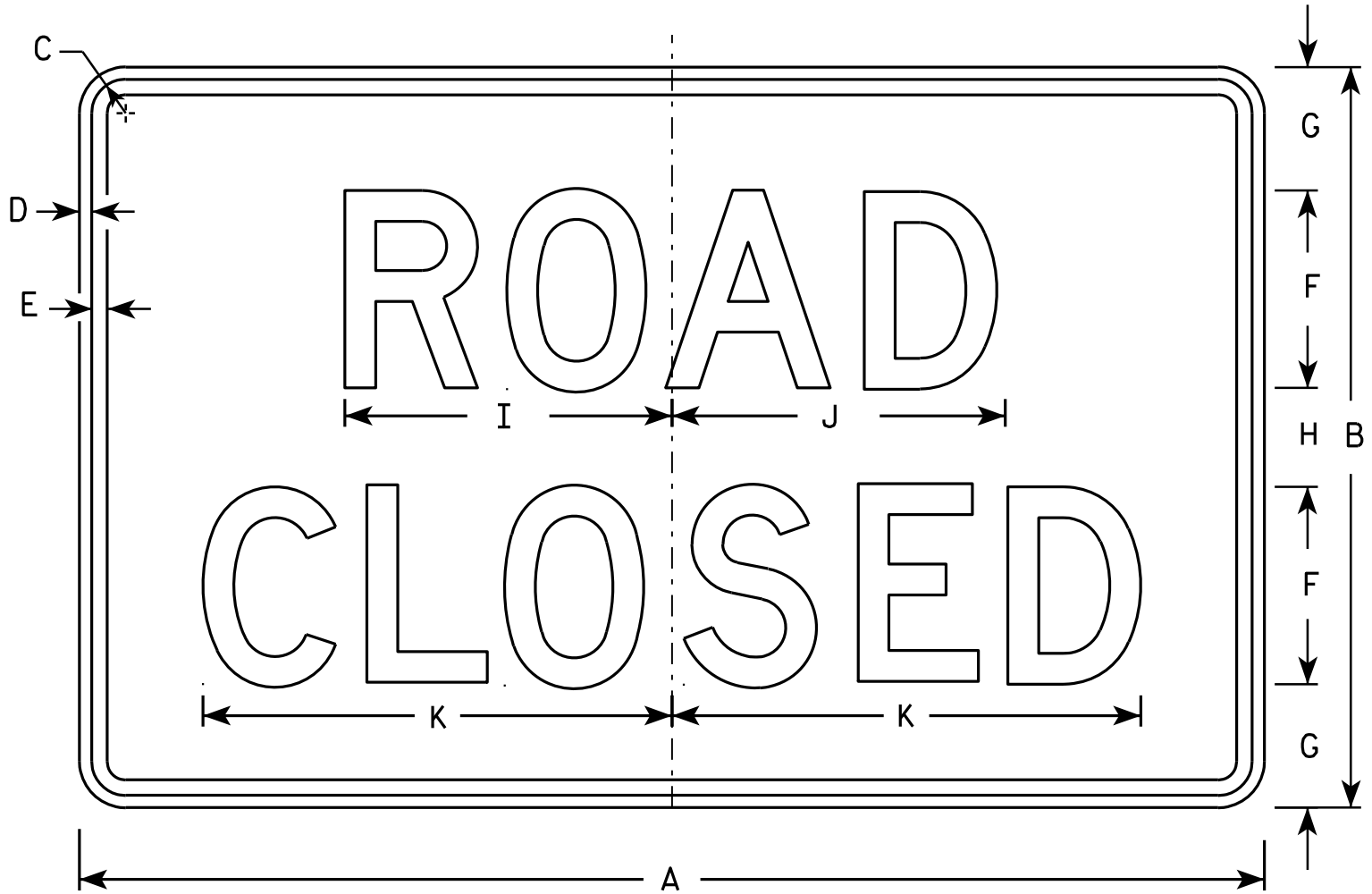
STANDARD SIGN
R10-11B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/5/11 PLATE NO. R10-11B.4

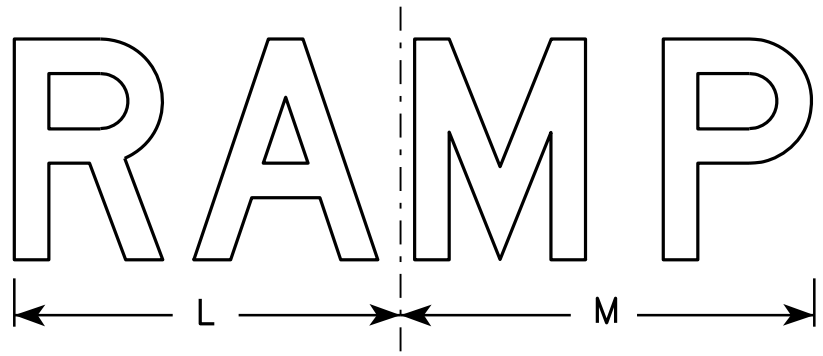
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 477 | E



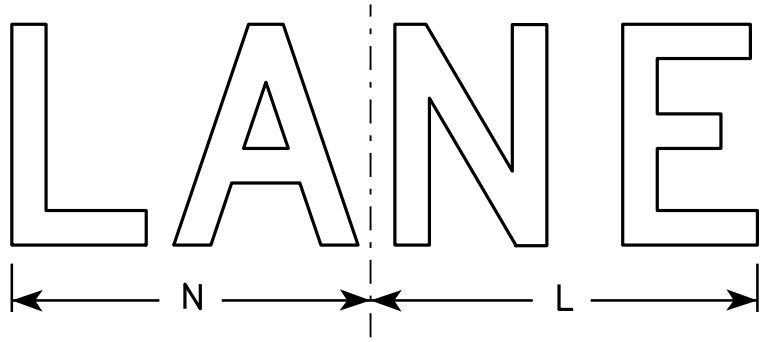
R11-2

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

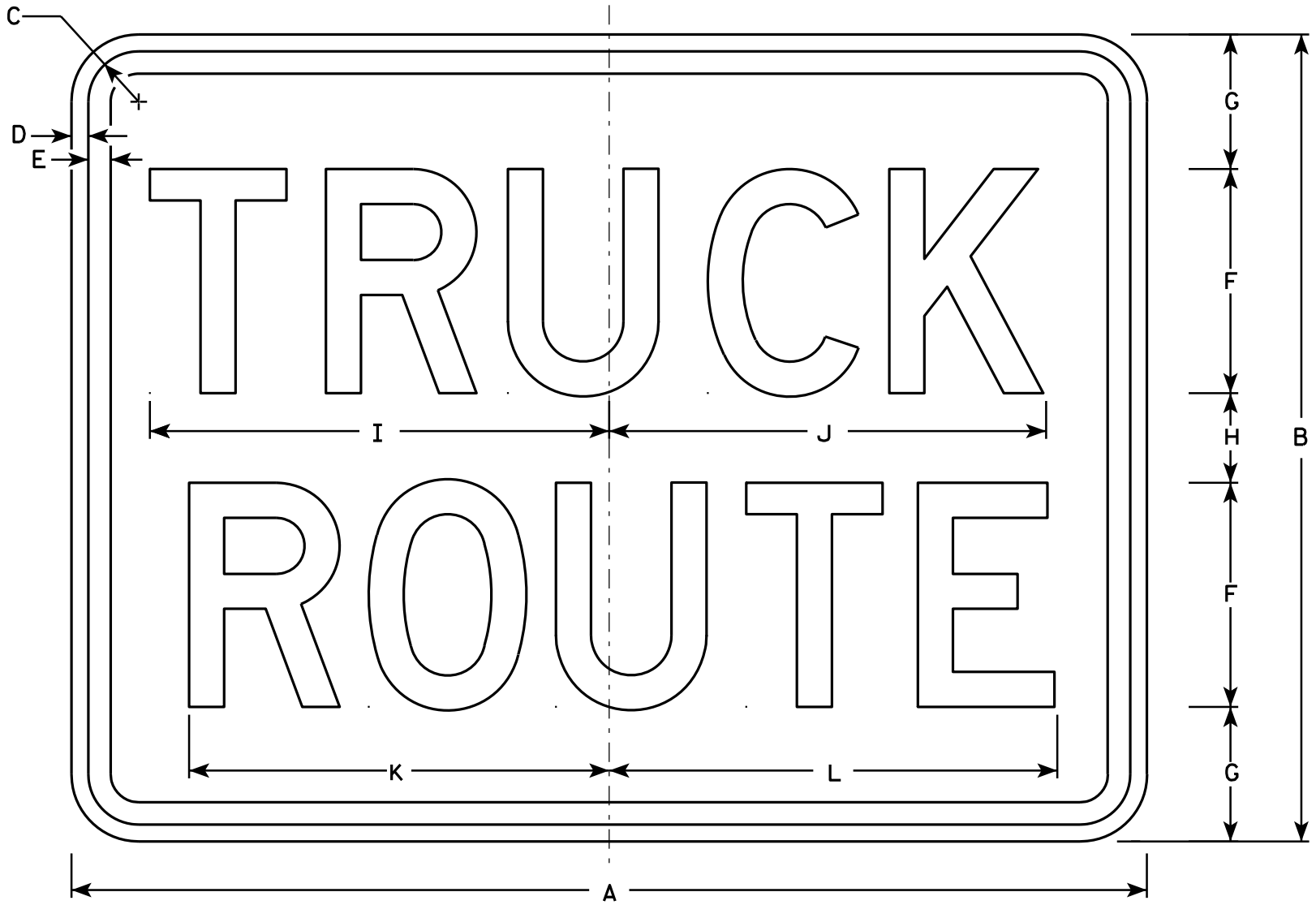
STANDARD SIGN
R11-2

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: 478	E



R14-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	5	3	2	10 1/4	9 3/4	9 3/8	10															3.0
2	24	18	1 1/8	3/8	1/2	5	3	2	10 1/4	9 3/4	9 3/8	10															3.0
3	30	24	1 1/8	3/8	1/2	6	4	4	12 1/4	11 3/4	11 1/4	12															5.0
4																											
5																											

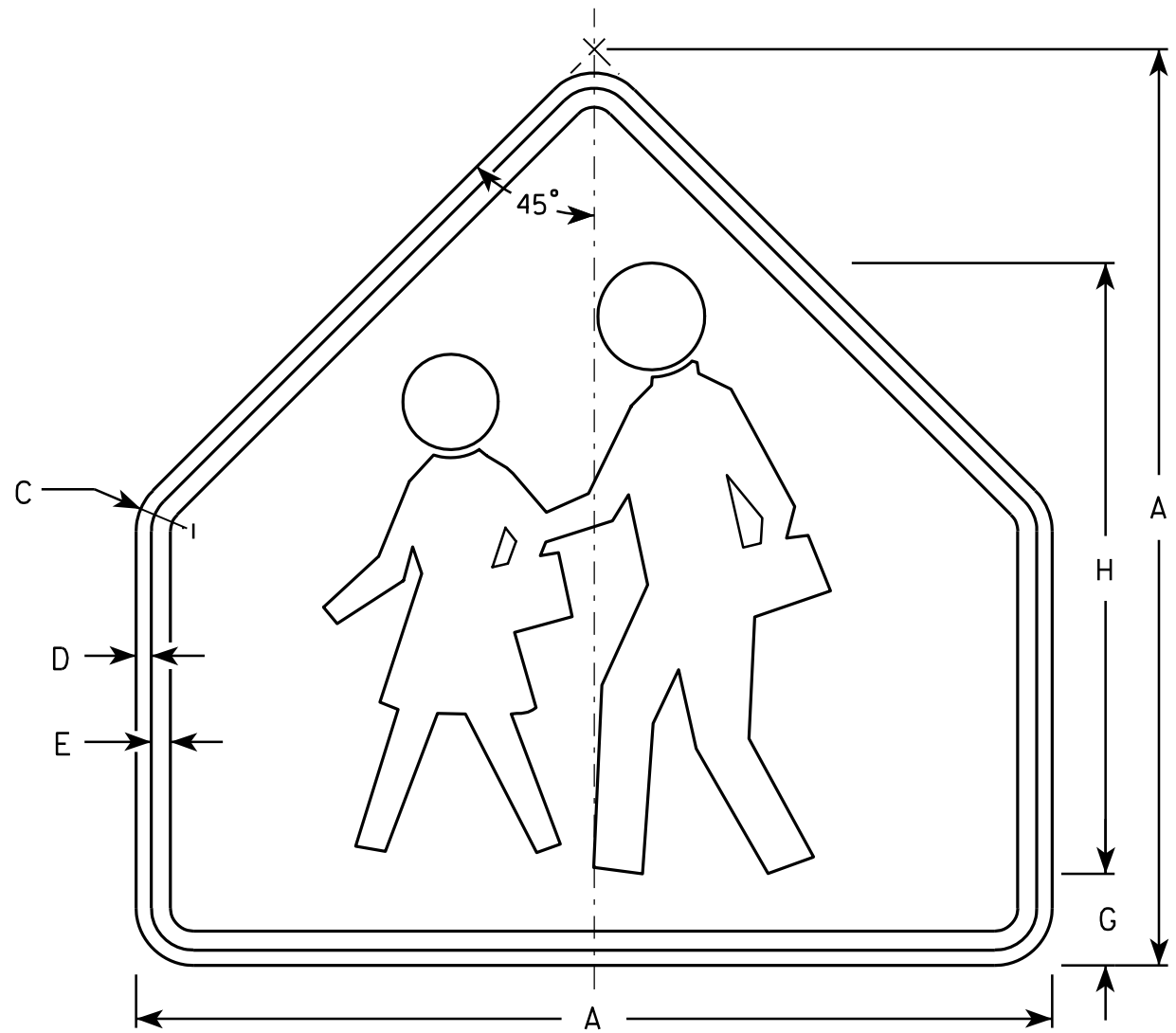
STANDARD SIGN
R14-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R14-1.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 479	E



S1-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow-Green
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		3	20																			4.69
2	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
3	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
4	48		2 1/4	3/4	1		4 3/4	32																			12
5																											

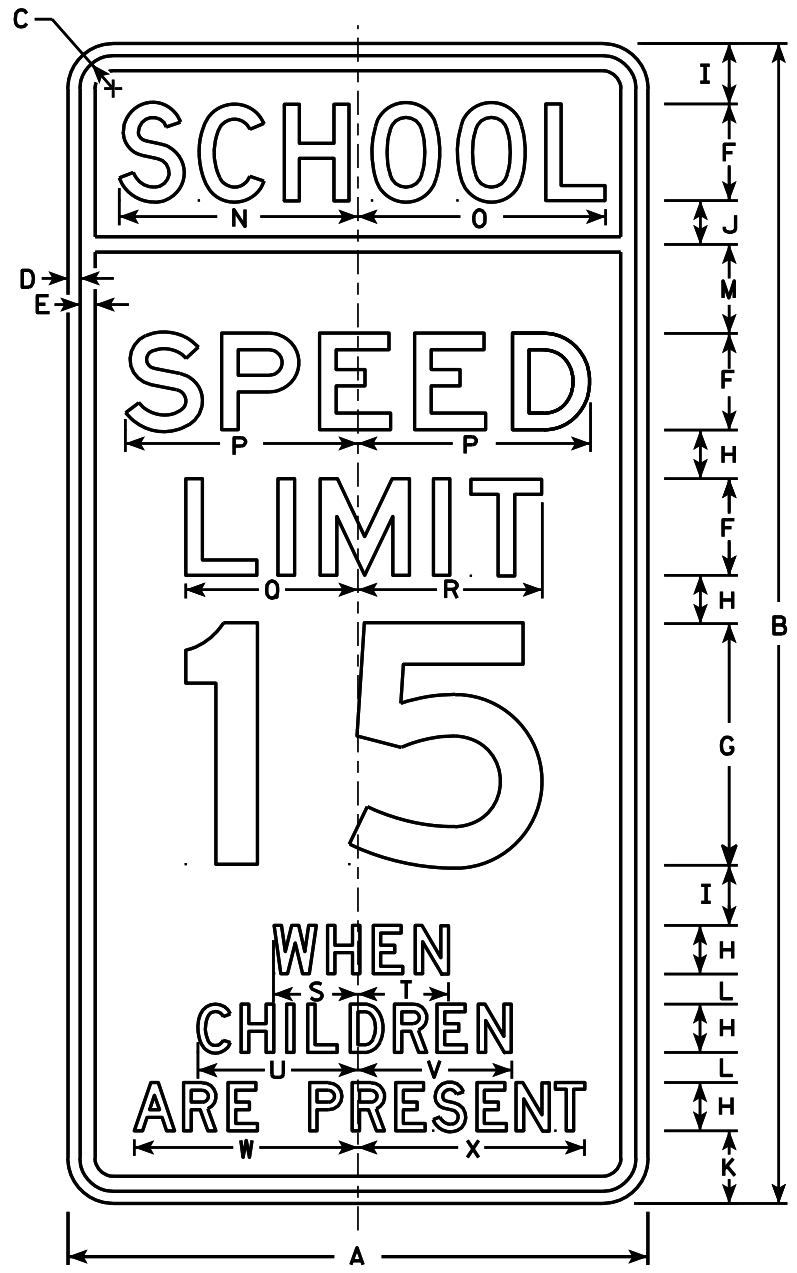
STANDARD SIGN
S1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/05 PLATE NO. S1-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 480	E



S4-51

NOTES

1. Sign is Type II - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. (See note 5).
2. Color:
   Background - See note 5
   Message - Black
3. Message Series - See note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Top panel (SCHOOL) background - Yellow Green -Type F Reflective.
   Lower panel background - White -Type H Reflective.
6. From top to bottom:
   Lines 1, 5, 6 & 7 are series D
   Lines 2, 3 & 4 are series E
7. Line 4 substitute appropriate numerals and adjust spacing to achieve proper balance.

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 1200 mm
3	900 mm X 1800 mm
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	48	1 3/8	1/2	5/8	4	10	2	2 1/2	1 3/4	3	1 1/4	3 3/4	9 7/8	10 1/4	9 5/8	7 1/8	7 5/8	3 1/2	3 3/8	6 5/8	6 3/8	9 1/4	9 3/8			8.00	0.72
3	36	72	2 1/4	3/4	1	6	15	3	3 3/4	2 3/4	4 1/2	1 7/8	5 1/2	15	15 1/4	14 1/2	11 1/4	11 1/2	5 1/2	5 3/4	10	9 3/4	14	14 1/8			18.00	1.62
4																												
5																												

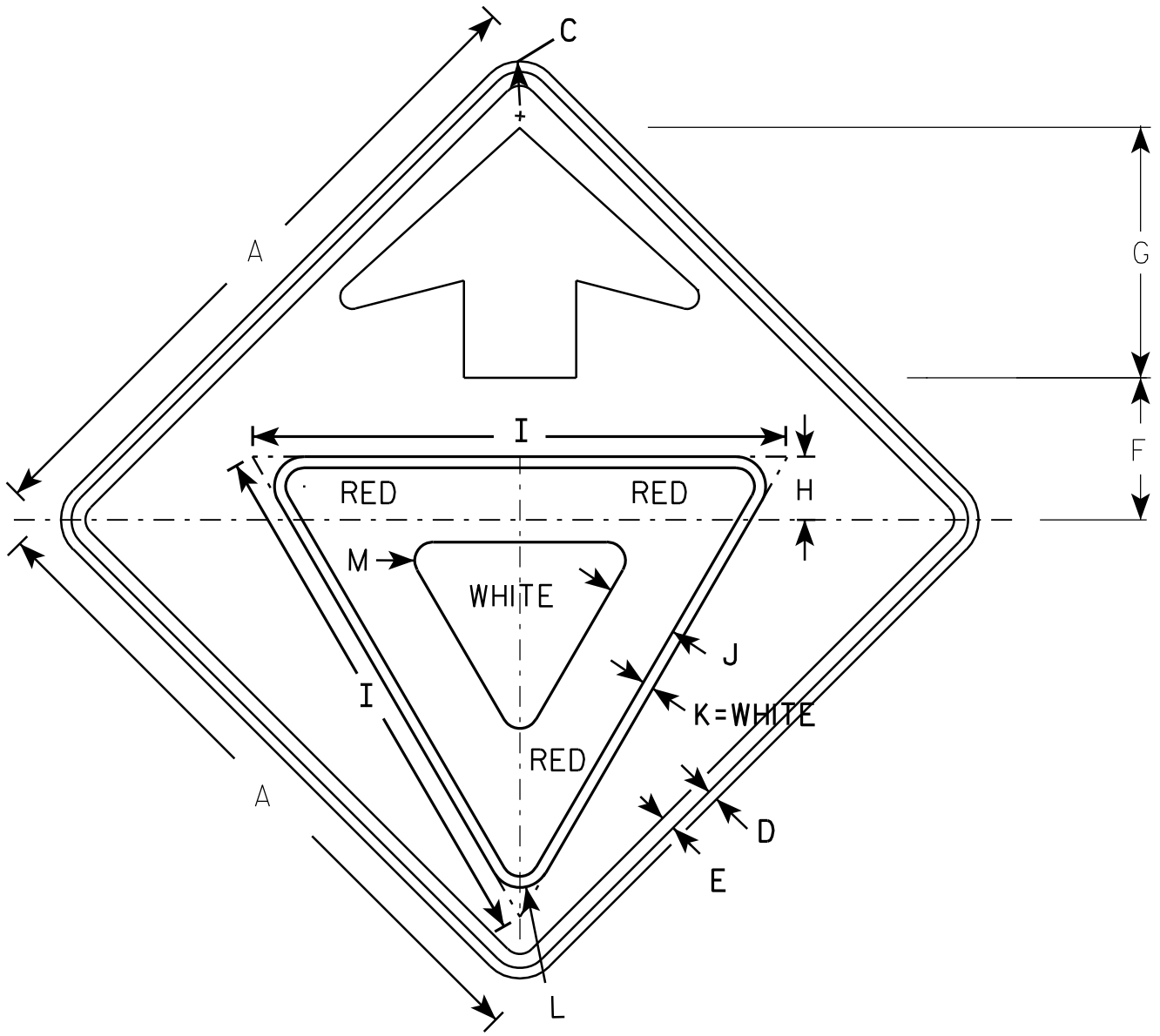
STANDARD SIGN
S4-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/26/10 PLATE NO. S4-51.9

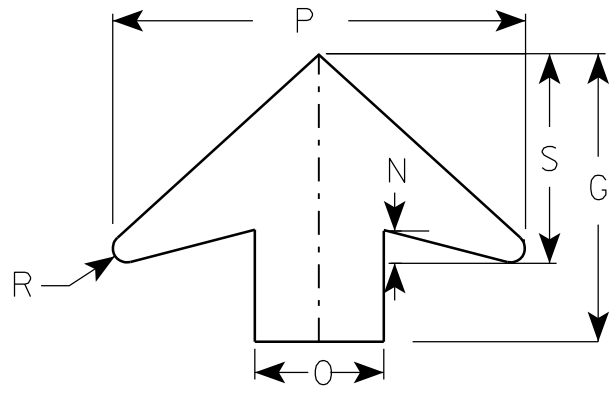
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 481	E



W3-2

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Yield Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	3	25	3 3/8	1/2	1 3/8	7/8	1 1/4	5	16		1/2	8								6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0

STANDARD SIGN
W3-2

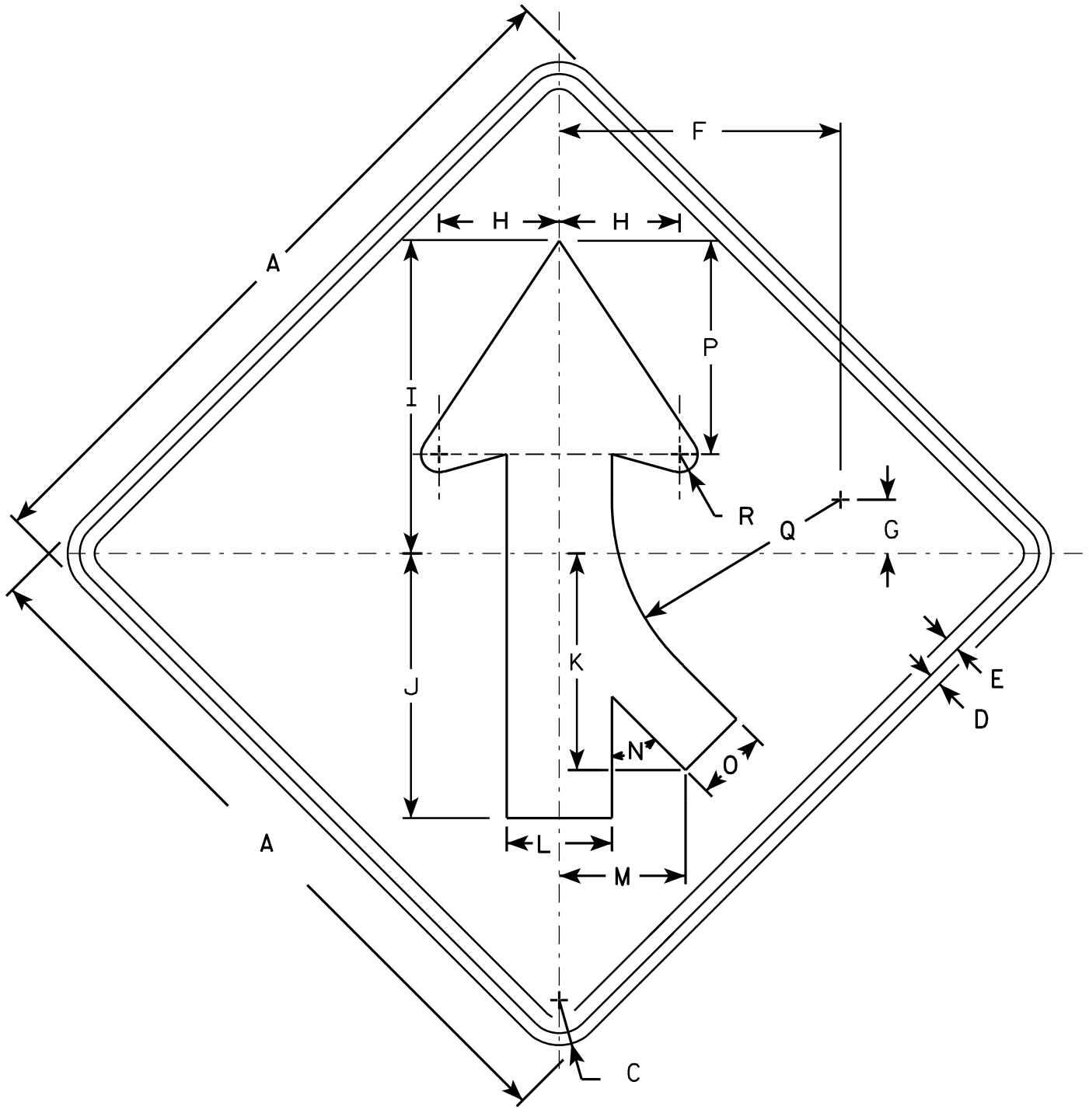
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-2..9

PROJECT NO:

SHEET NO: 482 E



W4-1 R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-1L is the same as W4-1R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	11 5/8	2 1/2	5	13	11	9	4 3/8	5 1/4	45°	3	8 7/8	9 1/2	3/4									6.25
2S	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
2M	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
3	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
4	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
5	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0

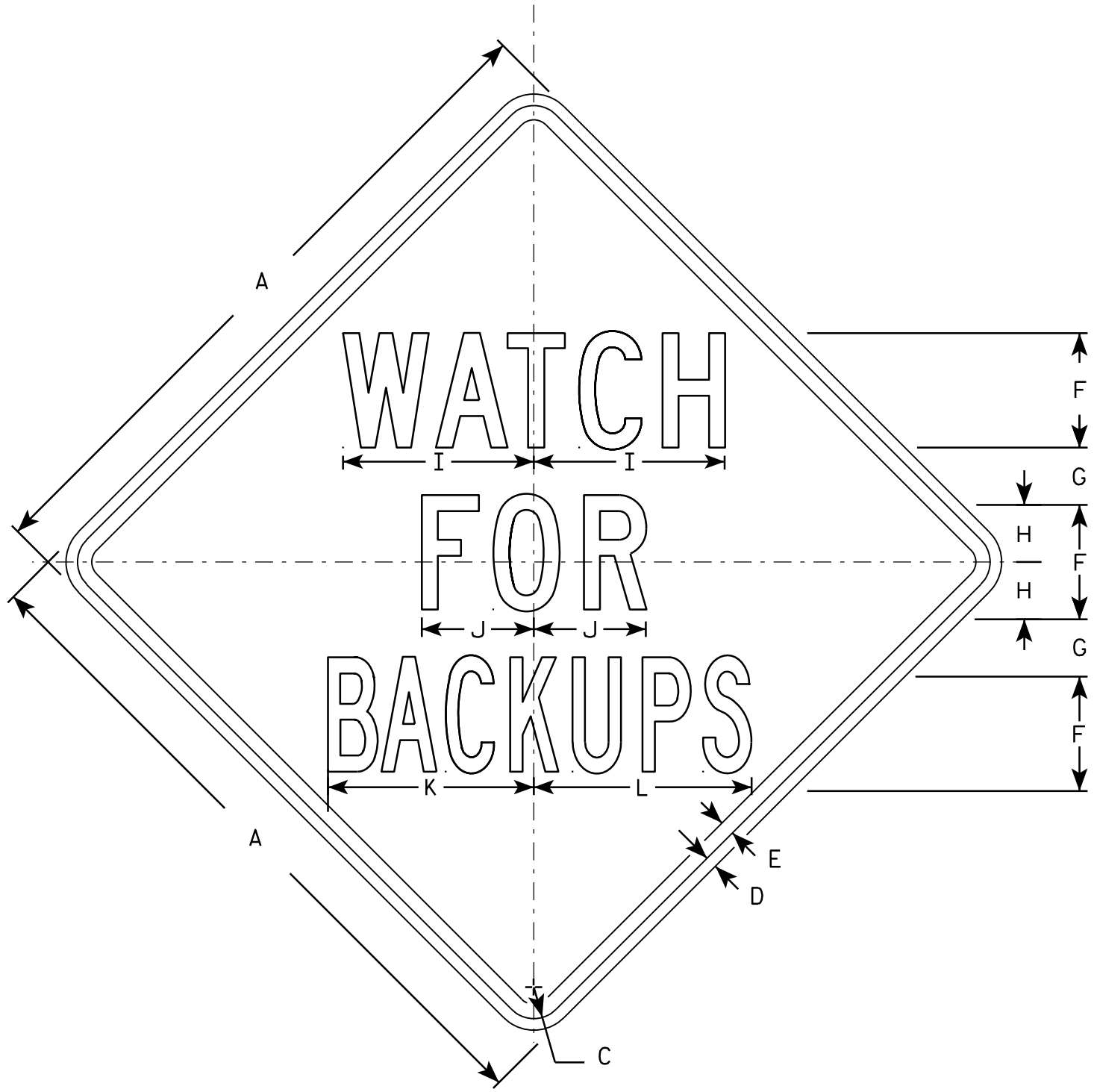
STANDARD SIGN
W4-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-1.14

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 483	E



W8-74

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 except Line 3 is Series B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	6	2 1/2	3	10	5 7/8	10 3/4	11 3/8															9.0
2M	36		1 5/8	5/8	3/4	6	2 1/2	3	10	5 7/8	10 3/4	11 3/8															9.0
3	48		2 1/4	3/4	1	8	4	4	13 5/8	7 7/8	14 3/8	15 1/4															16.0
4	48		2 1/4	3/4	1	8	4	4	13 5/8	7 7/8	14 3/8	15 1/4															16.0
5	48		2 1/4	3/4	1	8	4	4	13 5/8	7 7/8	14 3/8	15 1/4															16.0

STANDARD SIGN
W8-74

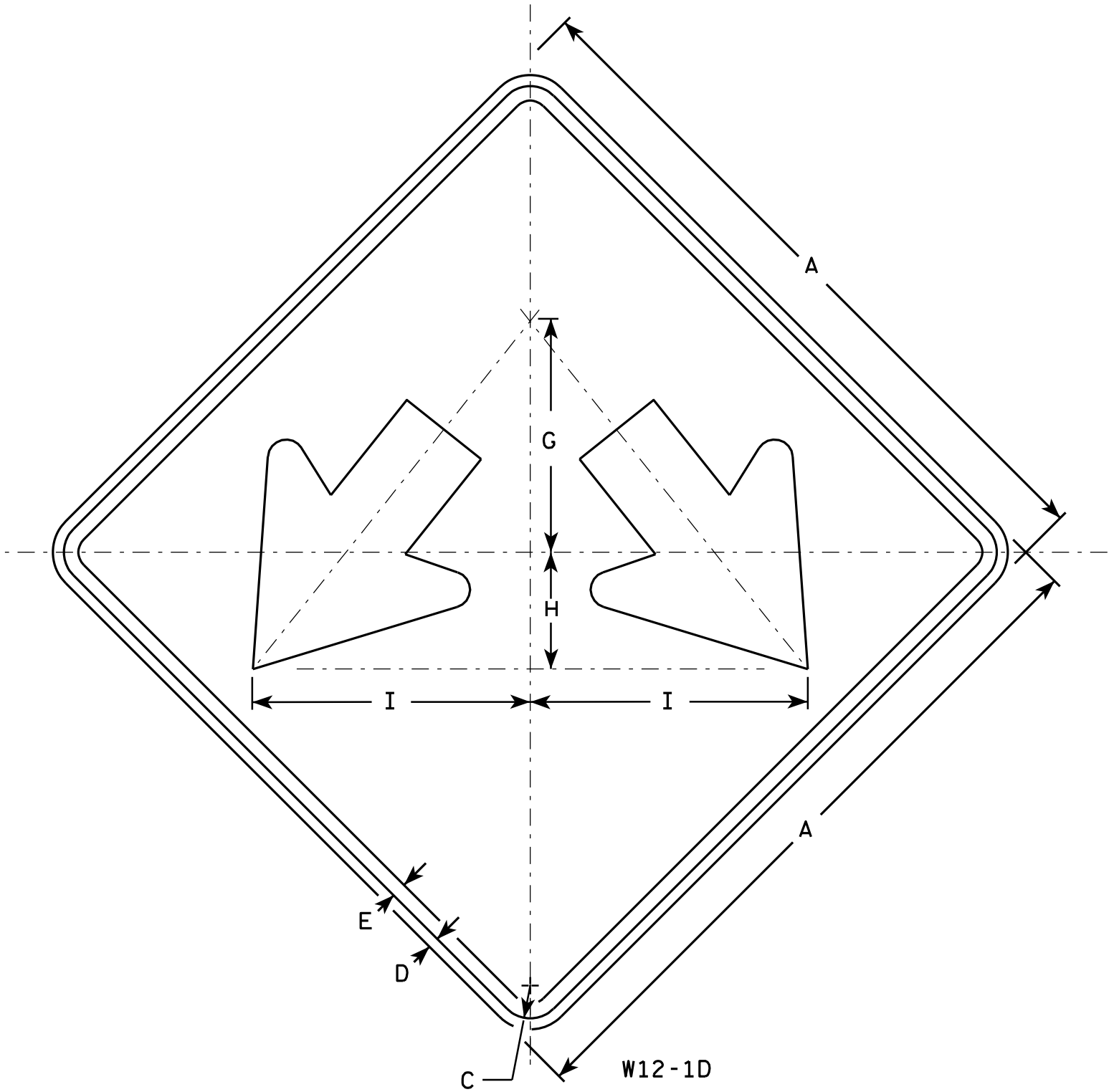
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/23/11 PLATE NO. W8-74.2

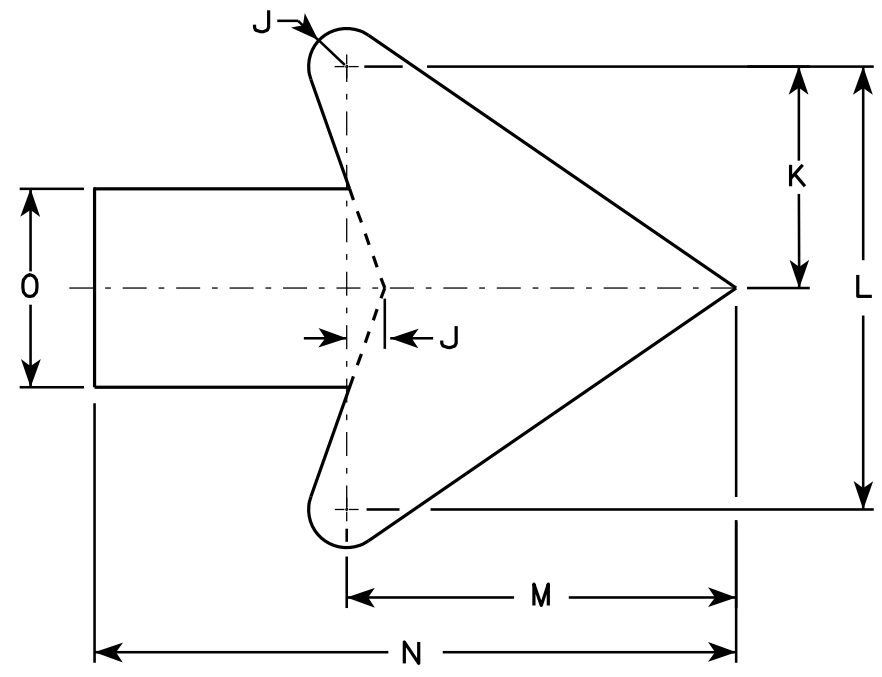
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 484 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W874.DGN PLOT DATE : 23-MAR-2011 10:22 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 7.510884:1.000000
WISDOT/CADDS SHEET 42



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

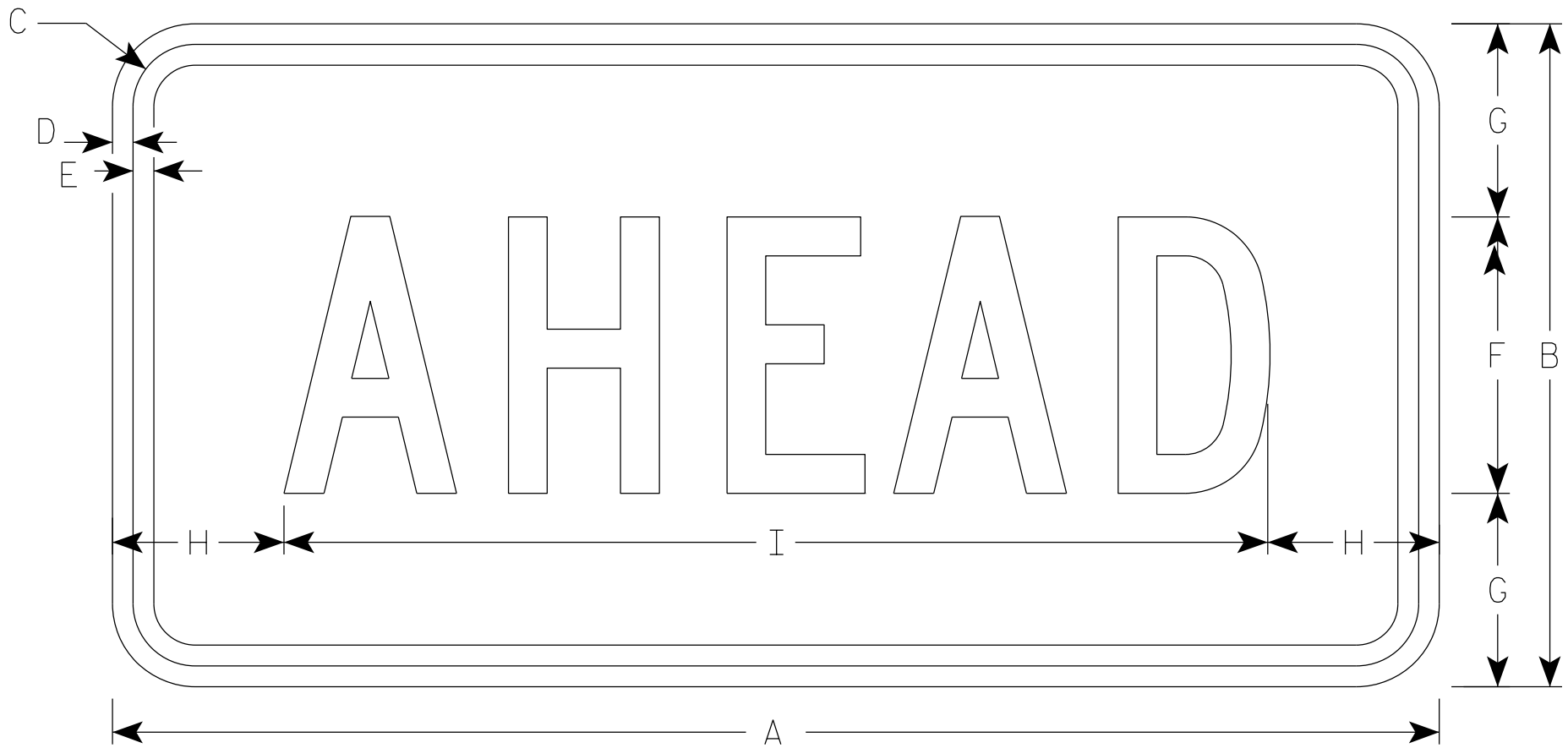
DATE 3/13/13 PLATE NO. W12-1D.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 485	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

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C



W16-9P

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

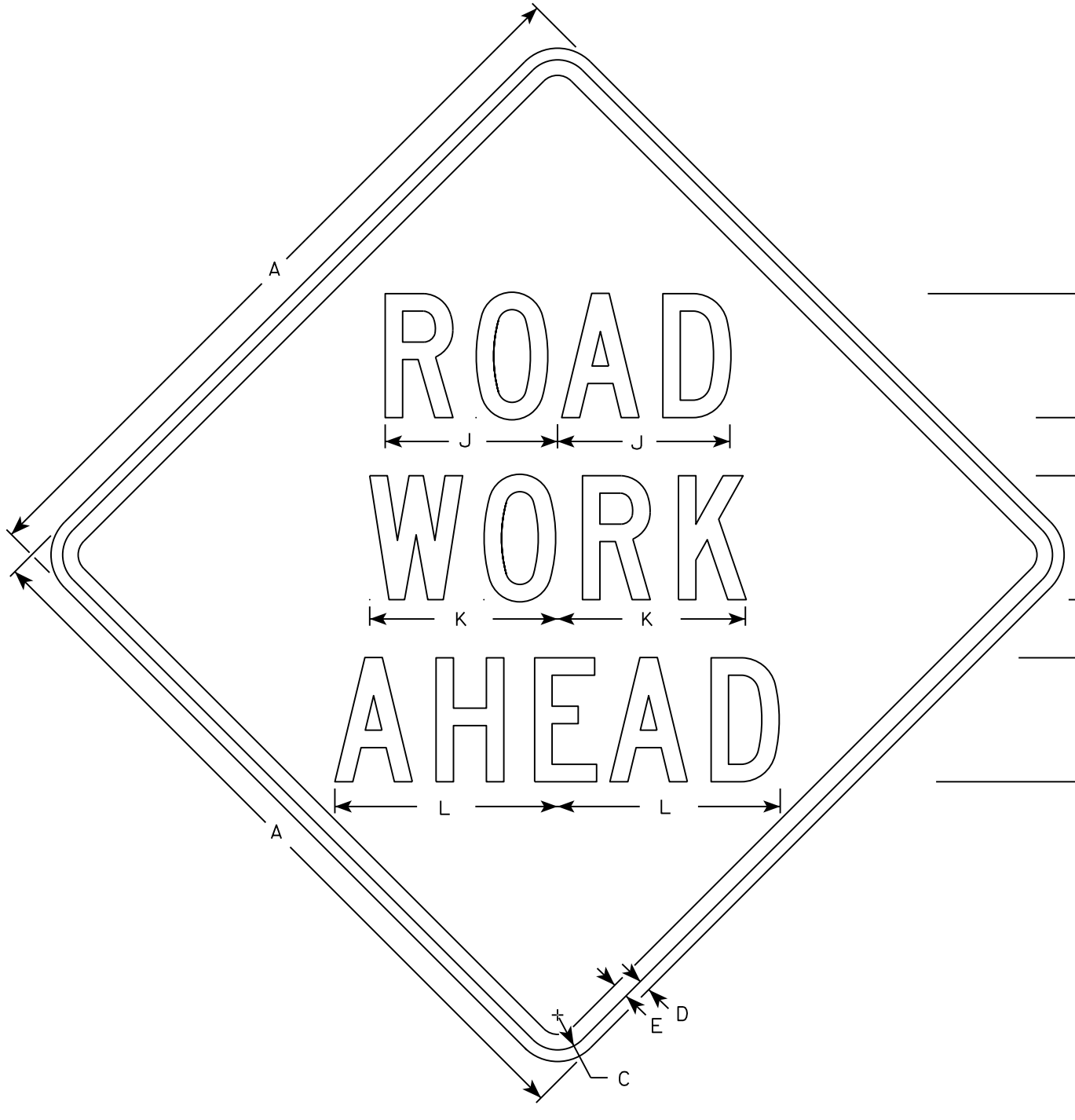
STANDARD SIGN
W16-9P

WISCONSIN DEPT OF TRANSPORTATION

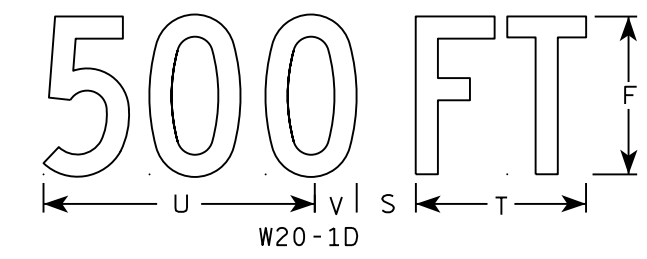
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/7/19 PLATE NO. W16-9P.7

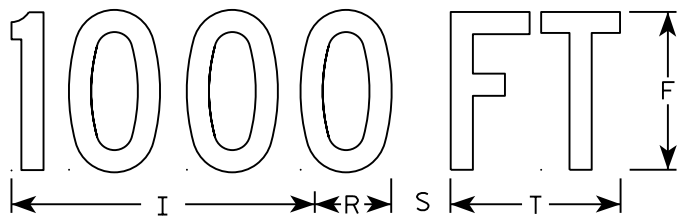
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 486 E



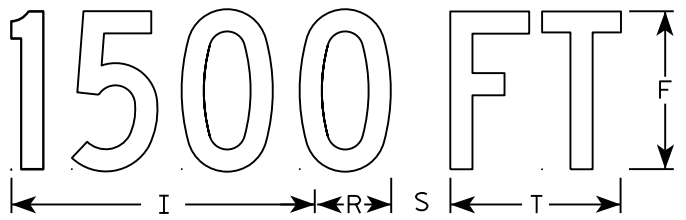
W20-1A



W20-1D



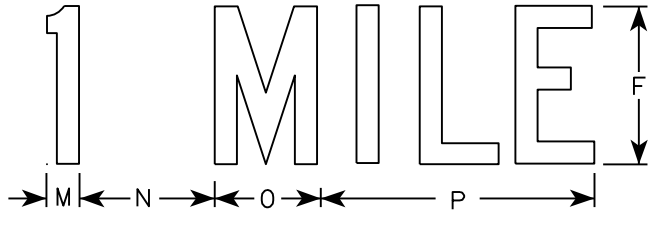
W20-1C



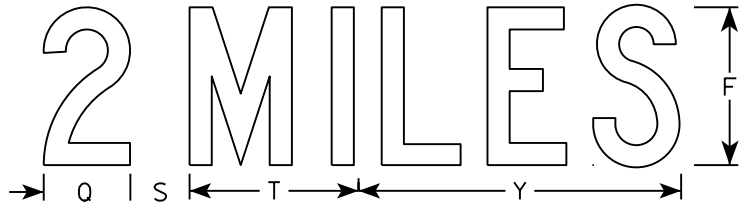
W20-1B



W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

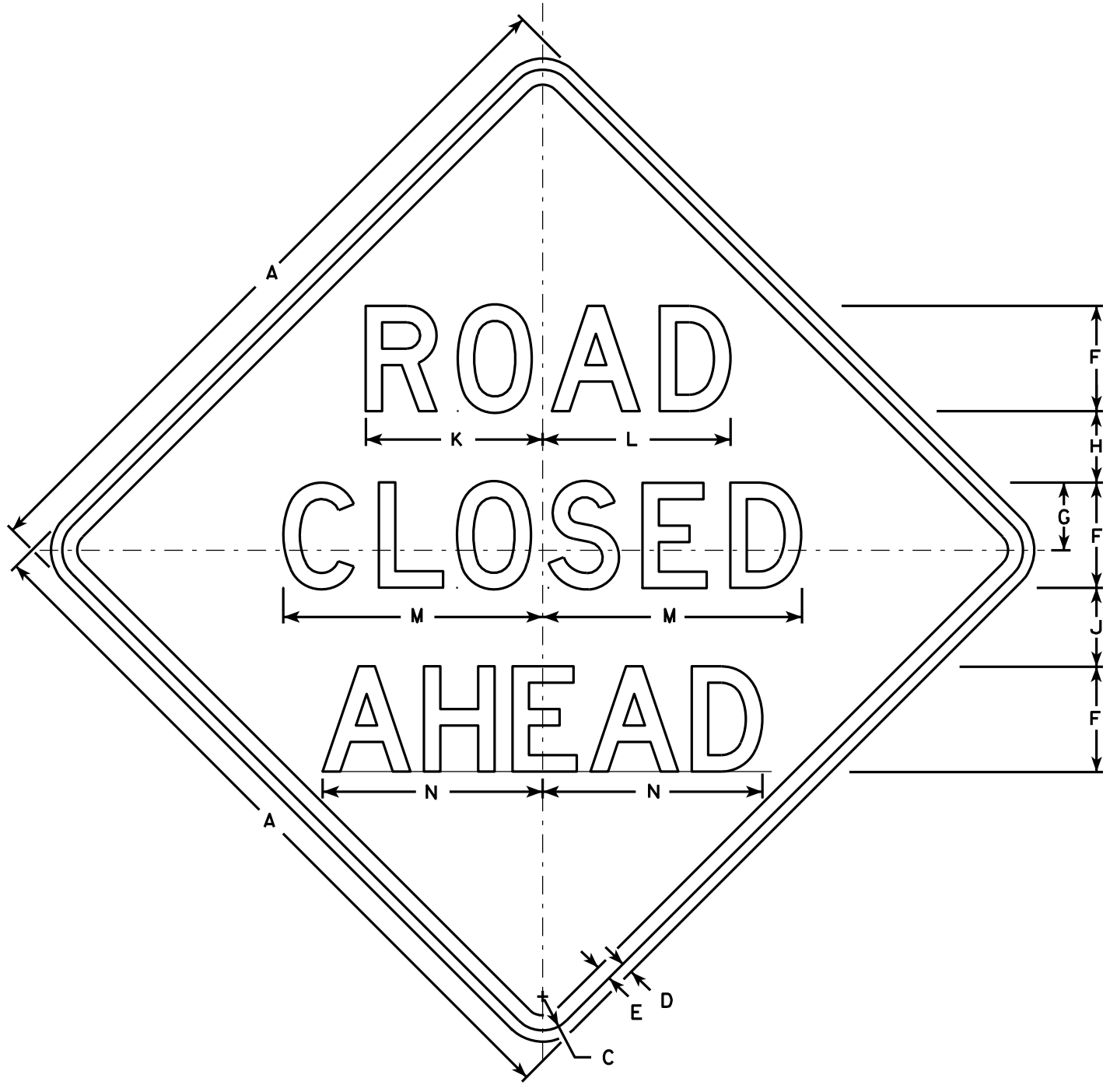
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

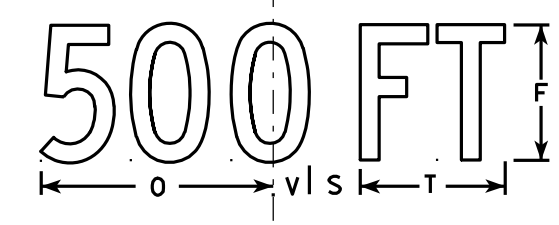
PROJECT NO:

SHEET NO: E

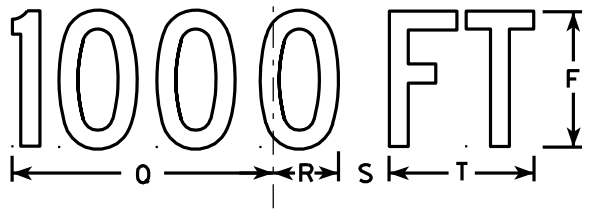
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



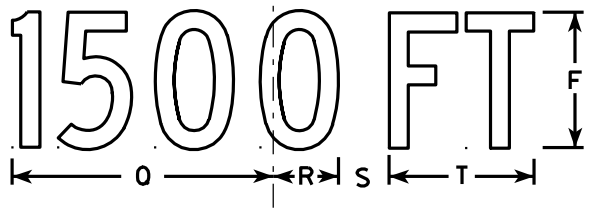
W20-3A



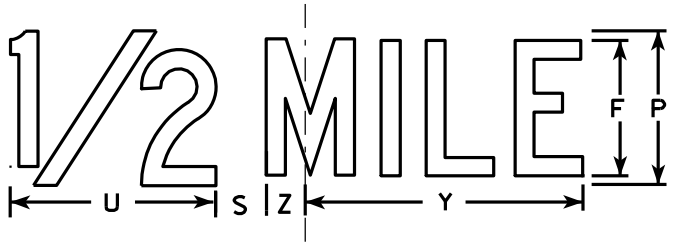
W20-3D



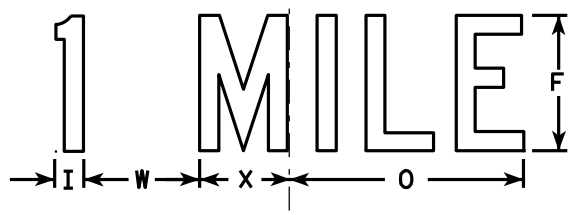
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

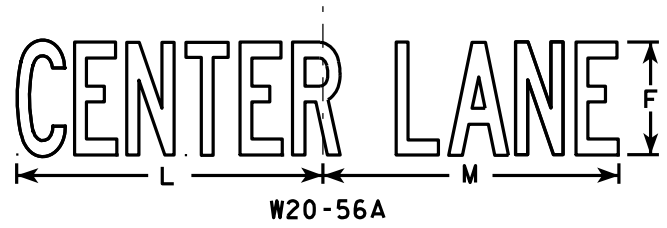
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

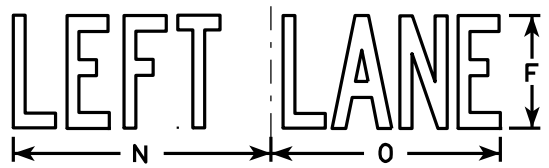
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

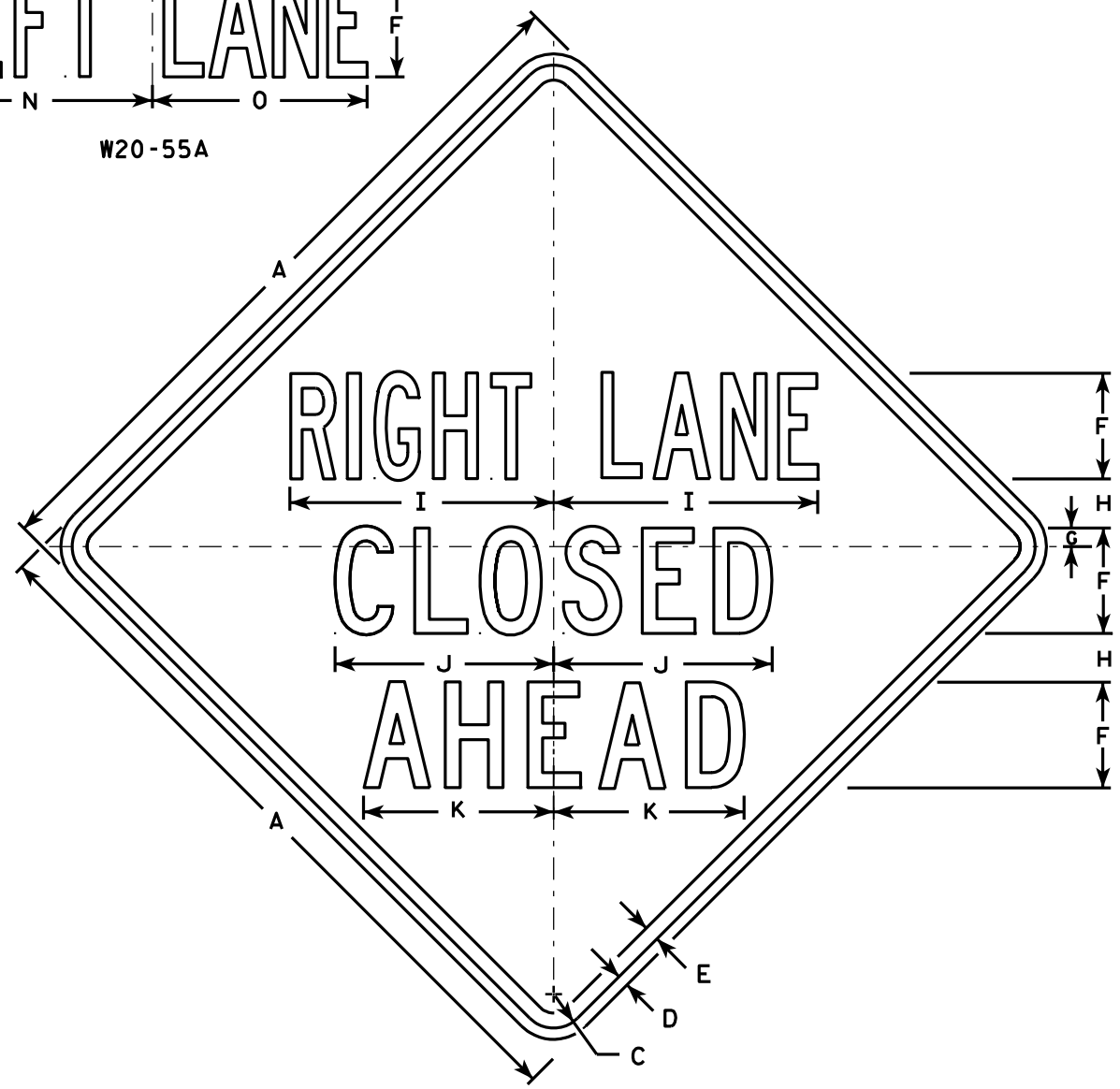
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 488 | E



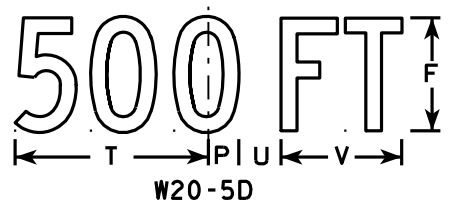
W20-56A



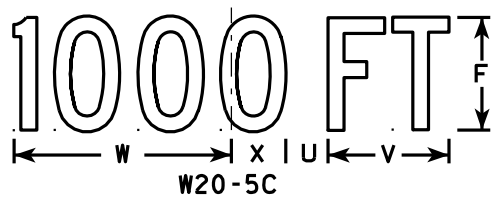
W20-55A



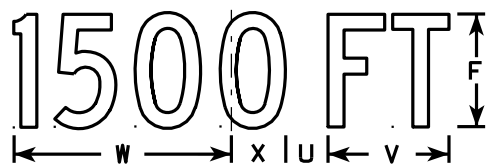
W20-5A



W20-5D



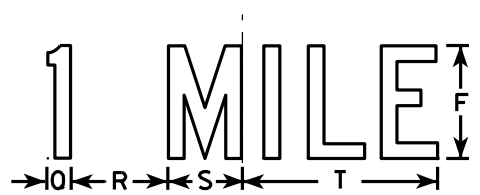
W20-5C



W20-5B



W20-5G



W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5	7/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

STANDARD SIGN
W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

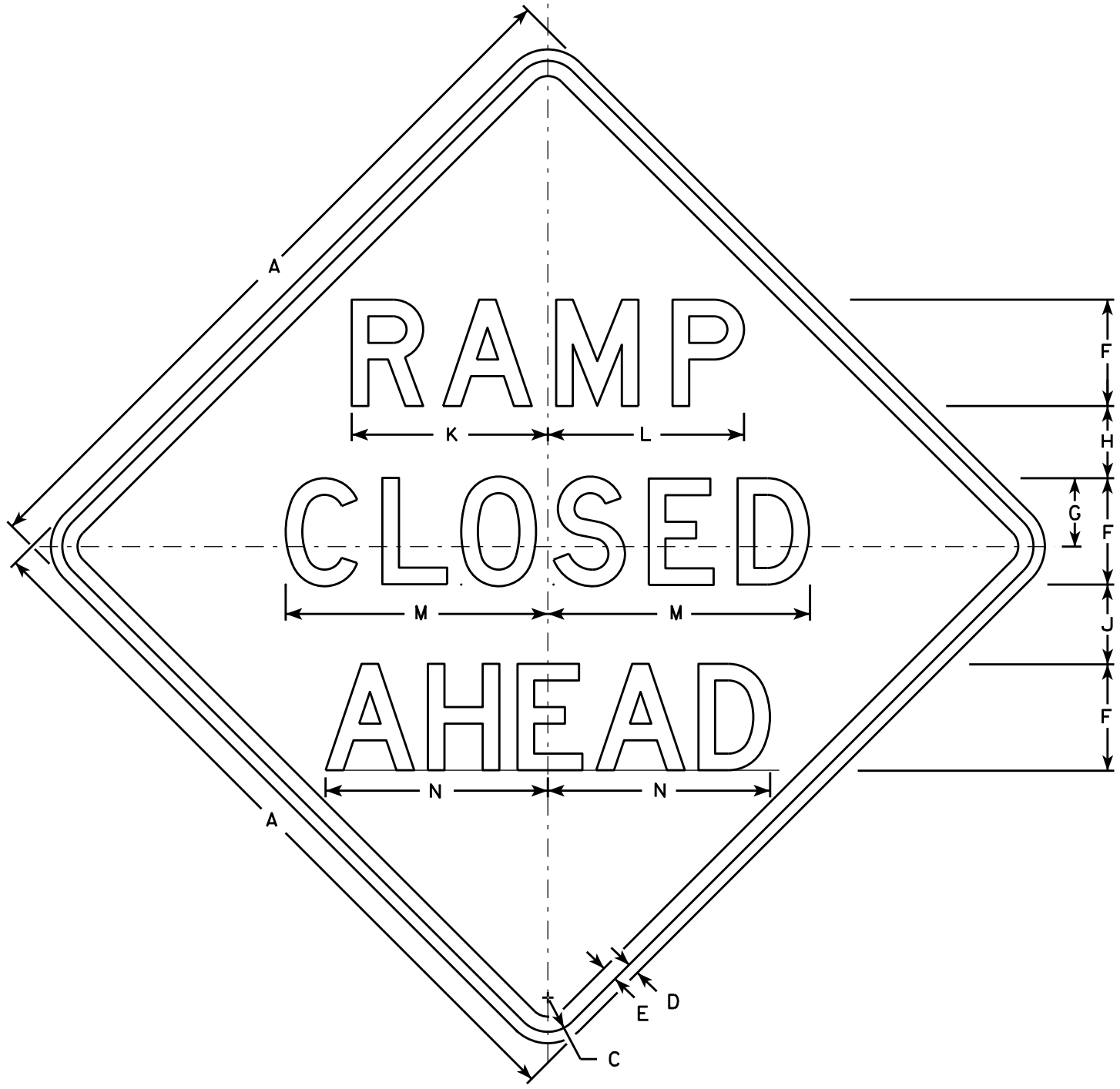
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

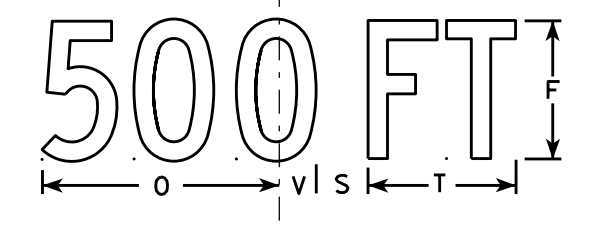
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 489 | E

7

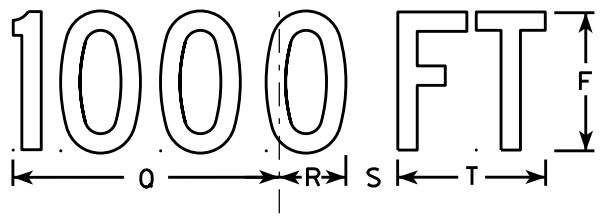
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000 WISDOT/CADDS SHEET 42



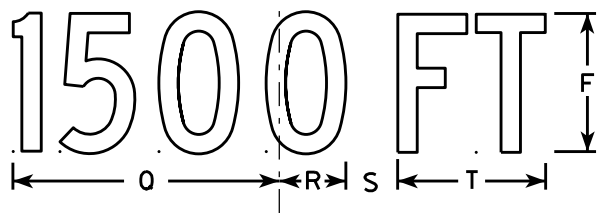
W20-53A



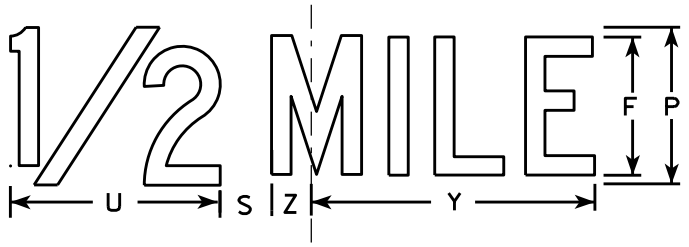
W20-53D



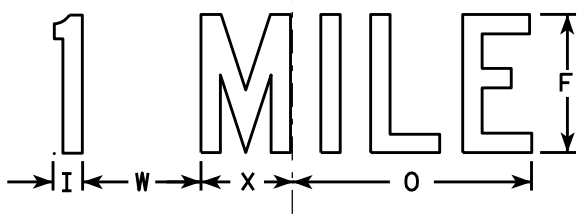
W20-53C



W20-53B



W20-53G



W20-53F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	9 1/4	9 1/4	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-53A,B,C,D,F,G

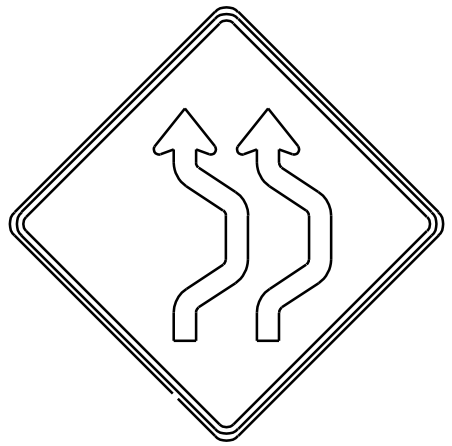
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

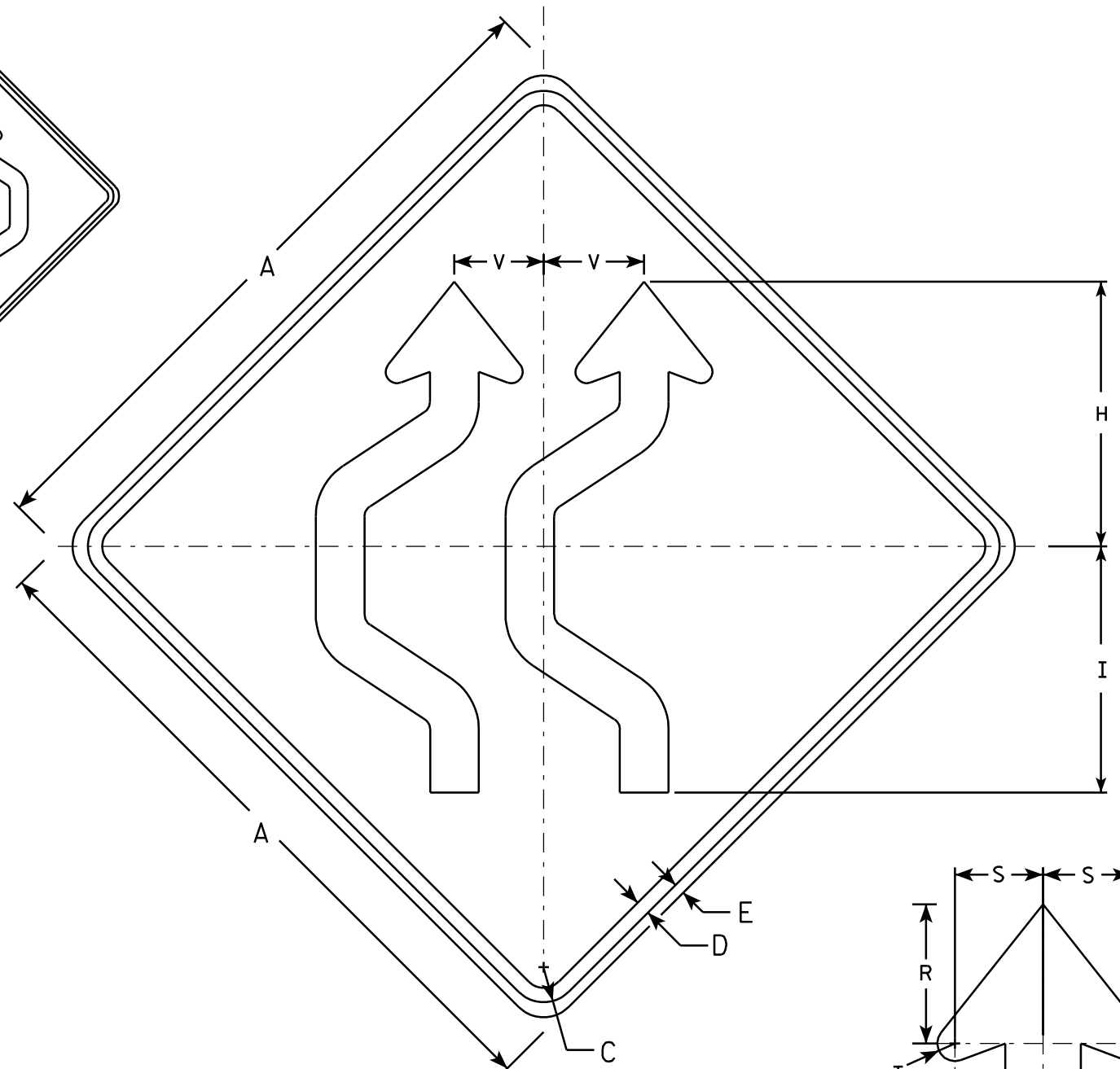
DATE 5/27/15 PLATE NO. W20-53.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

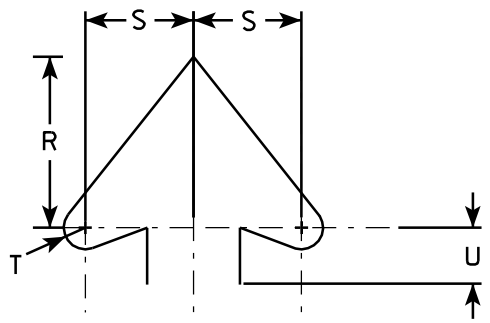
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W2053.DGN PLOT DATE : 27-MAY-2015 19:40 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.729210:1.000000
WISDOT/CADDS SHEET 42



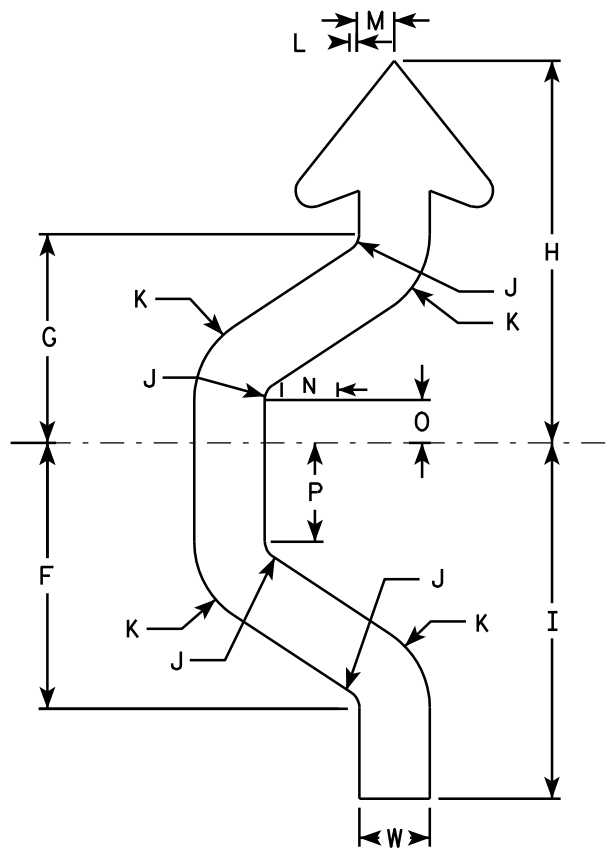
W24-1AR



W24-1AL



Arrowhead Detail



Arrow Detail

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W24-1R is the same as W24-1L except reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	5/8	1/2	9 1/2	7 1/2	13 3/4	12 3/4	5/8	3 1/8	3/8	1 5/8	2 3/8	1 1/2	3 1/2		4 5/8	3	5/8	1 1/2	4 3/4	2 1/2				9
2S	48		2 1/4	1	3/4	12 7/8	10 1/8	18 1/2	17 1/4	7/8	4 1/4	3/8	2 1/8	3 1/4	2	4 3/4		6 1/4	4	3/4	2 1/8	6 1/4	3 3/8				16
2M	48		2 1/4	1	3/4	12 7/8	10 1/8	18 1/2	17 1/4	7/8	4 1/4	3/8	2 1/8	3 1/4	2	4 3/4		6 1/4	4	3/4	2 1/8	6 1/4	3 3/8				16
3	48		2 1/4	1	3/4	12 7/8	10 1/8	18 1/2	17 1/4	7/8	4 1/4	3/8	2 1/8	3 1/4	2	4 3/4		6 1/4	4	3/4	2 1/8	6 1/4	3 3/8				16
4	48		2 1/4	1	3/4	12 7/8	10 1/8	18 1/2	17 1/4	7/8	4 1/4	3/8	2 1/8	3 1/4	2	4 3/4		6 1/4	4	3/4	2 1/8	6 1/4	3 3/8				16
5	48		2 1/4	1	3/4	12 7/8	10 1/8	18 1/2	17 1/4	7/8	4 1/4	3/8	2 1/8	3 1/4	2	4 3/4		6 1/4	4	3/4	2 1/8	6 1/4	3 3/8				16

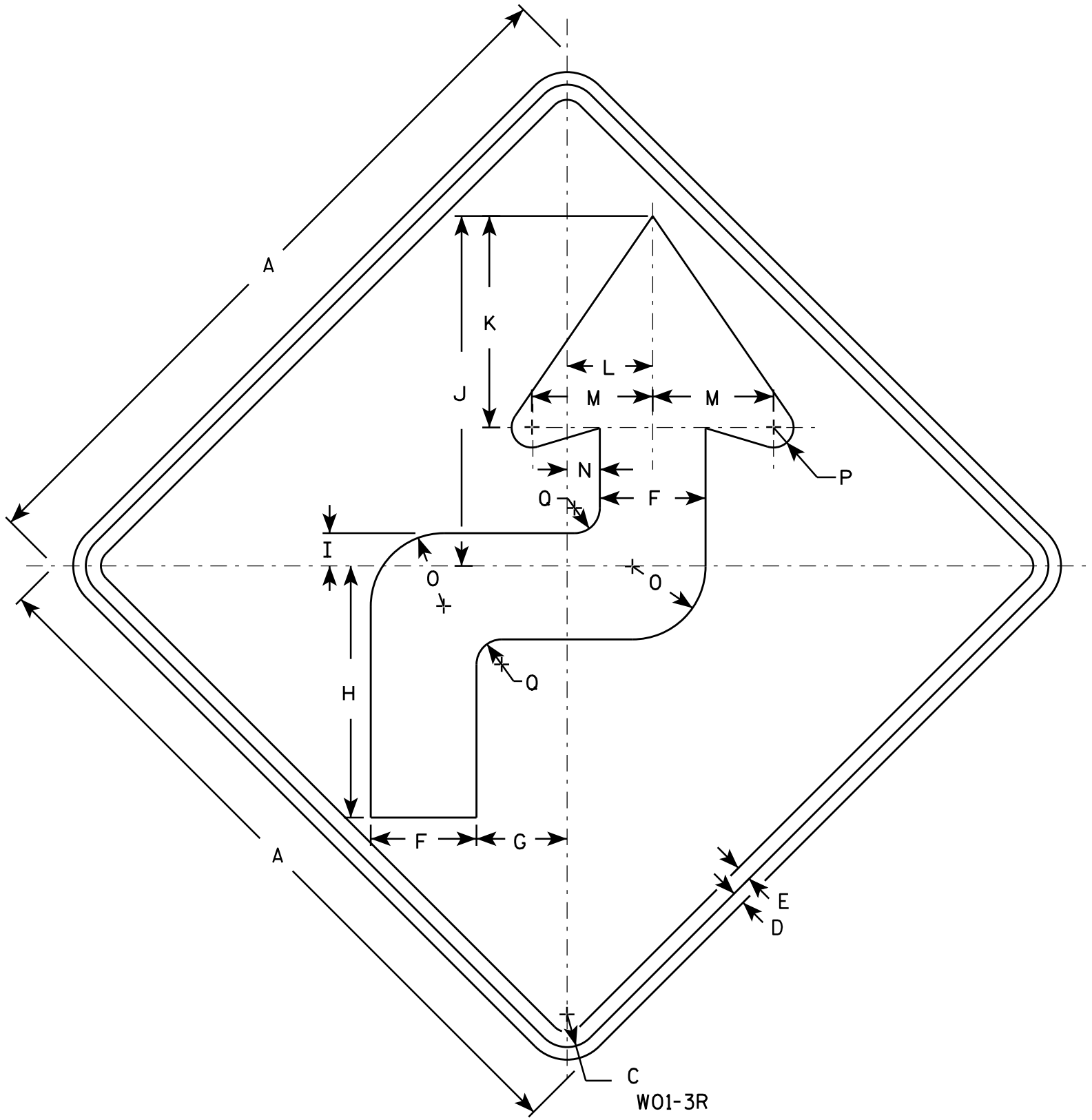
STANDARD SIGN
W24-1AL

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/11 PLATE NO. W24-1AL.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 491 | 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 - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-3L is the same as W01-3R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5 1/4	4 1/2	12 1/2	1 5/8	17 3/8	10 1/2	4 1/4	6	1 5/8	3 5/8	1	1 1/4										9.0
2S	48		2 1/4	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0
2M	48		2 1/4	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0
3	48		2 1/4	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0
4	48		2 1/4	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0
5	48		2 1/4	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0

STANDARD SIGN
W01-3

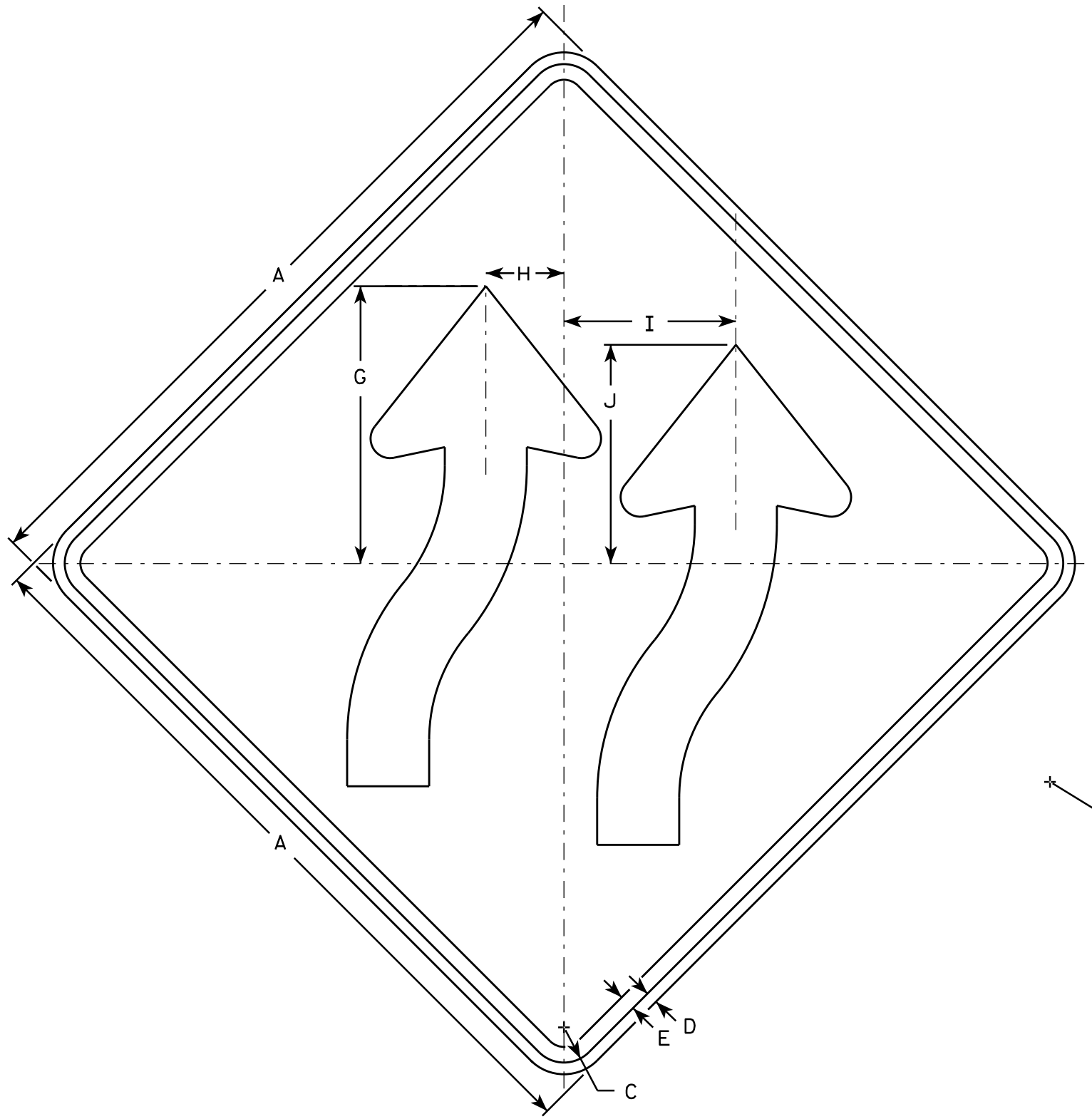
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

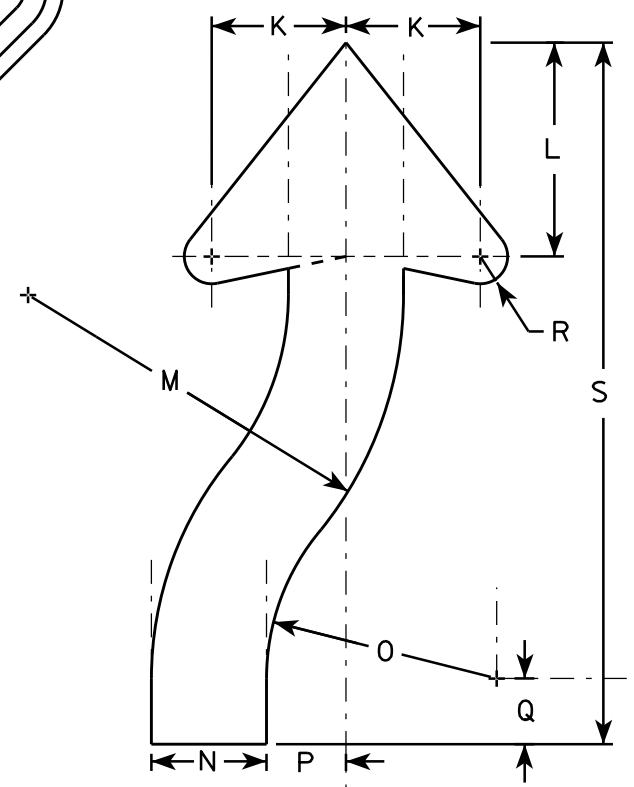
DATE 11/18/13 PLATE W01-3.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W013.DGN PLOT DATE : 28-FEB-2014 11:35 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.567217:1.000000



W01-4bR



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-4bL is the same as W014-bR exept arrows are reversed along the vertical centerline

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4		13 3/8	3 3/4	8 1/4	10 1/2	4 5/8	7 3/8	12 7/8	3 7/8	7 7/8	2 3/4	2 1/4	7/8	24								9.0
2S	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
2M	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
3	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
4	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
5	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0

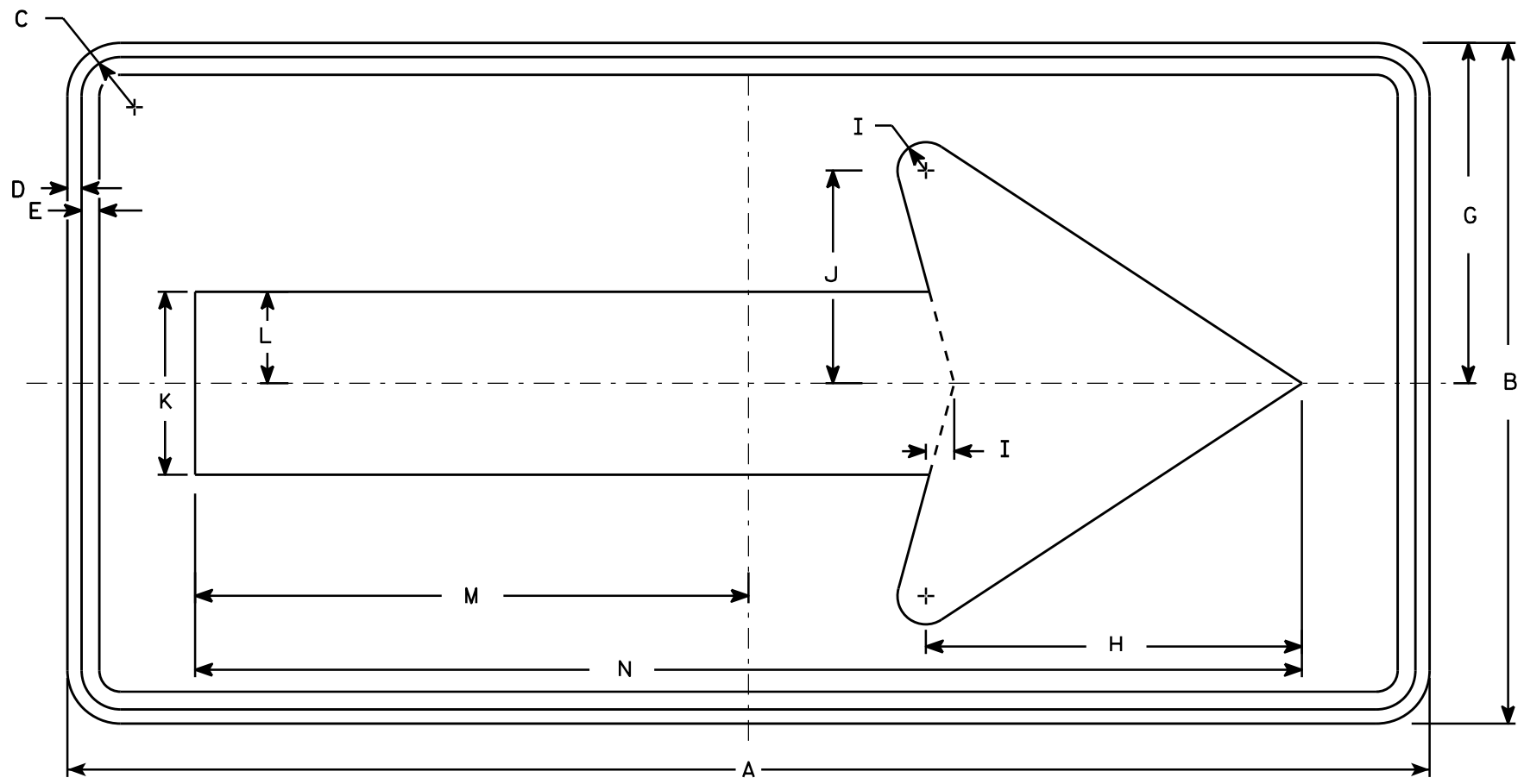
STANDARD SIGN
W01-4b

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-4b.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W01-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

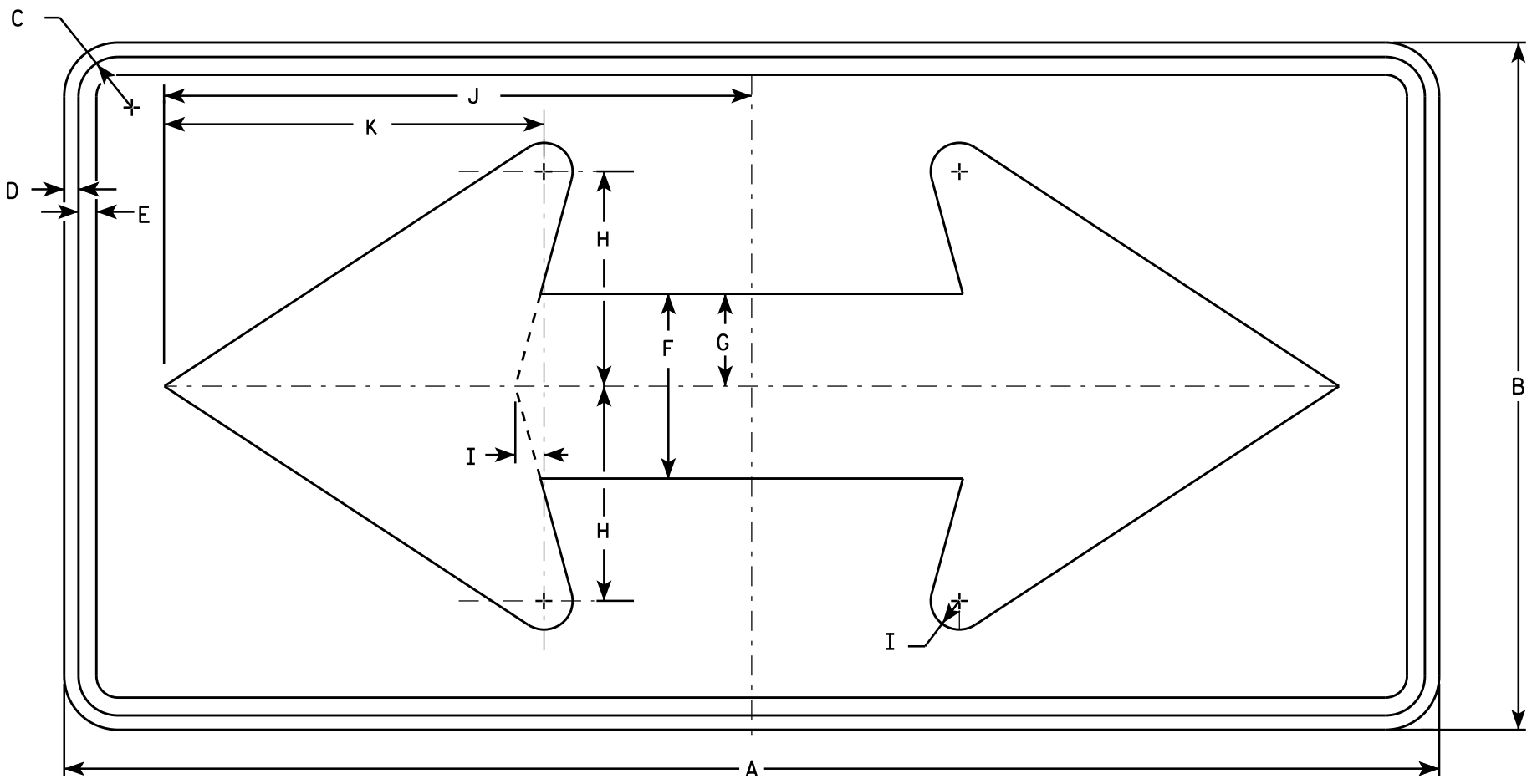
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE W01-6.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



W01-7

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5

STANDARD SIGN
W01-7

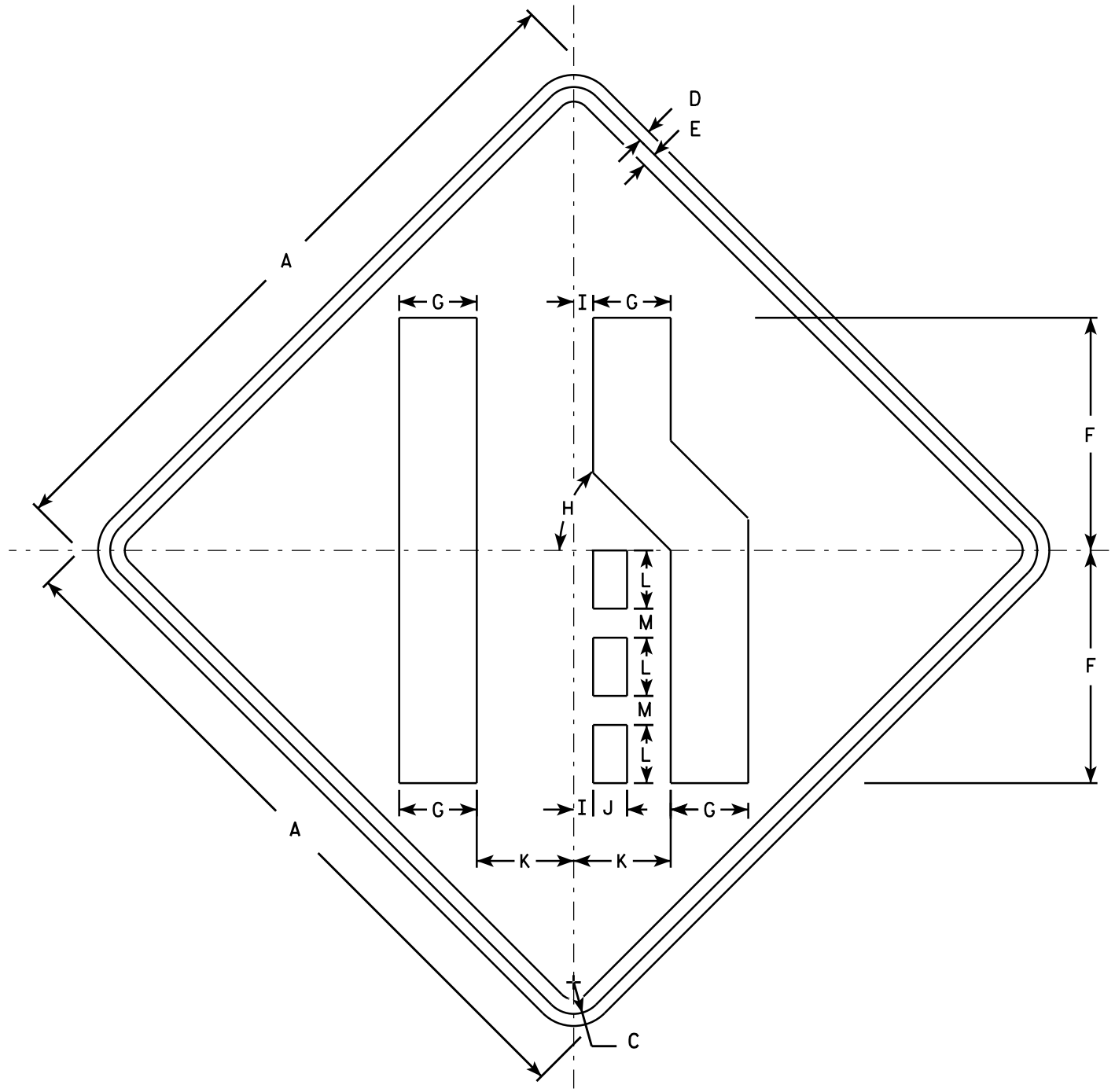
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE 1495 W01-7.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W017.DGN PLOT DATE : 20-NOV-2013 10:35 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.604022:1.000000
WISDOT/CADDS SHEET 42



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

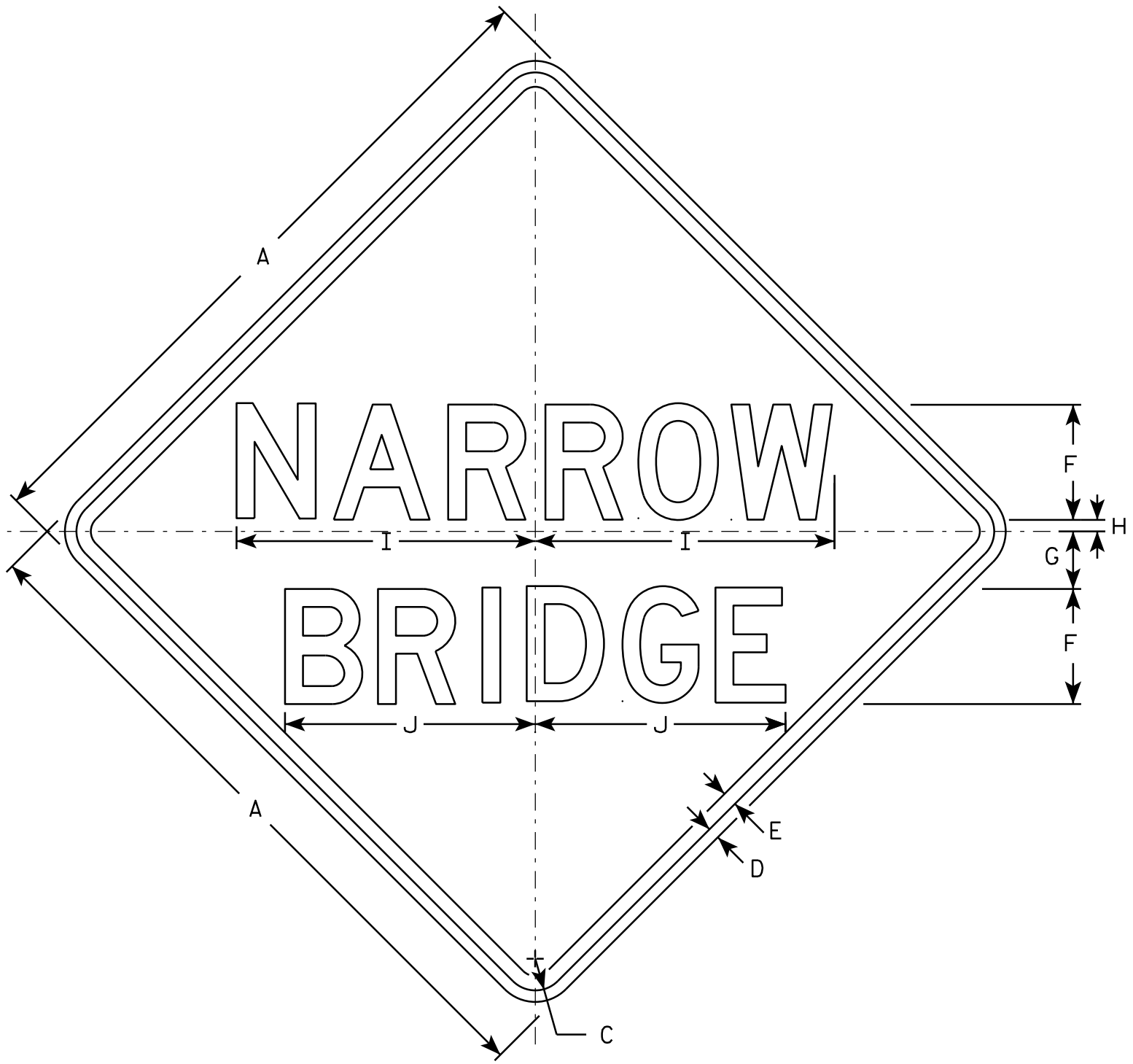
STANDARD SIGN
W04-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 496 W04-2.1

PROJECT NO: | SHEET NO: E



W05-2

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	3	3/4	15 5/8	13 1/8																	9.0
2S	48		2 1/4	3/4	1	8	4	3/4	20 3/4	17 3/8																	16.0
2M	48		2 1/4	3/4	1	8	4	3/4	20 3/4	17 3/8																	16.0
3	48		2 1/4	3/4	1	8	4	3/4	20 3/4	17 3/8																	16.0
4	48		2 1/4	3/4	1	8	4	3/4	20 3/4	17 3/8																	16.0
5	48		2 1/4	3/4	1	8	4	3/4	20 3/4	17 3/8																	16.0

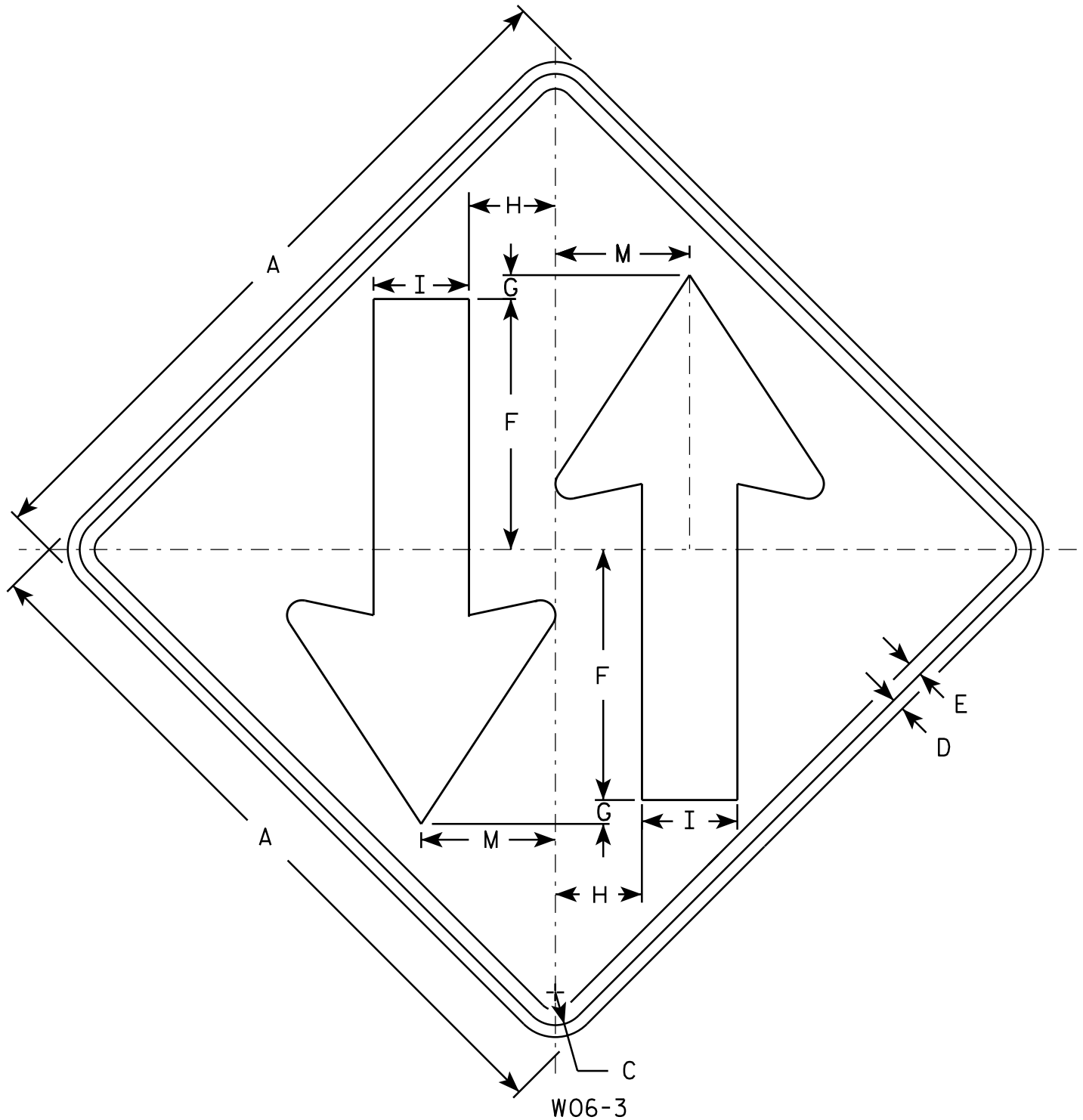
STANDARD SIGN
W05-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 497 W05-2.1

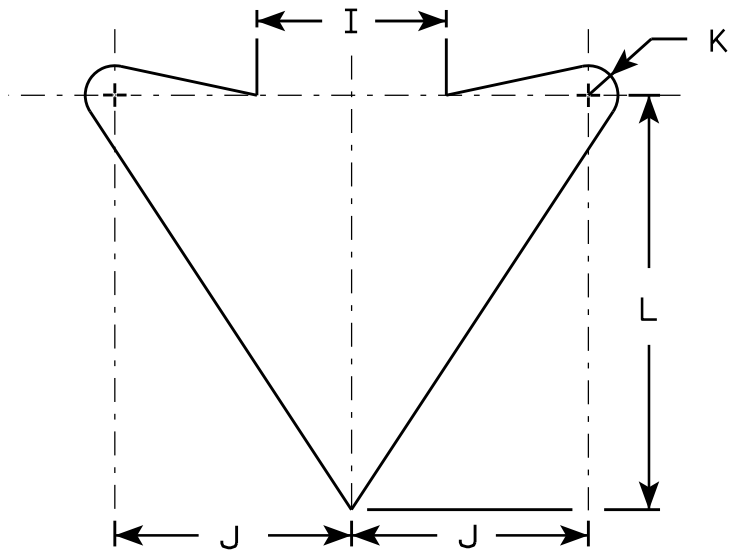
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W06-3

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
2S	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
2M	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
3	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
4	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
5	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0

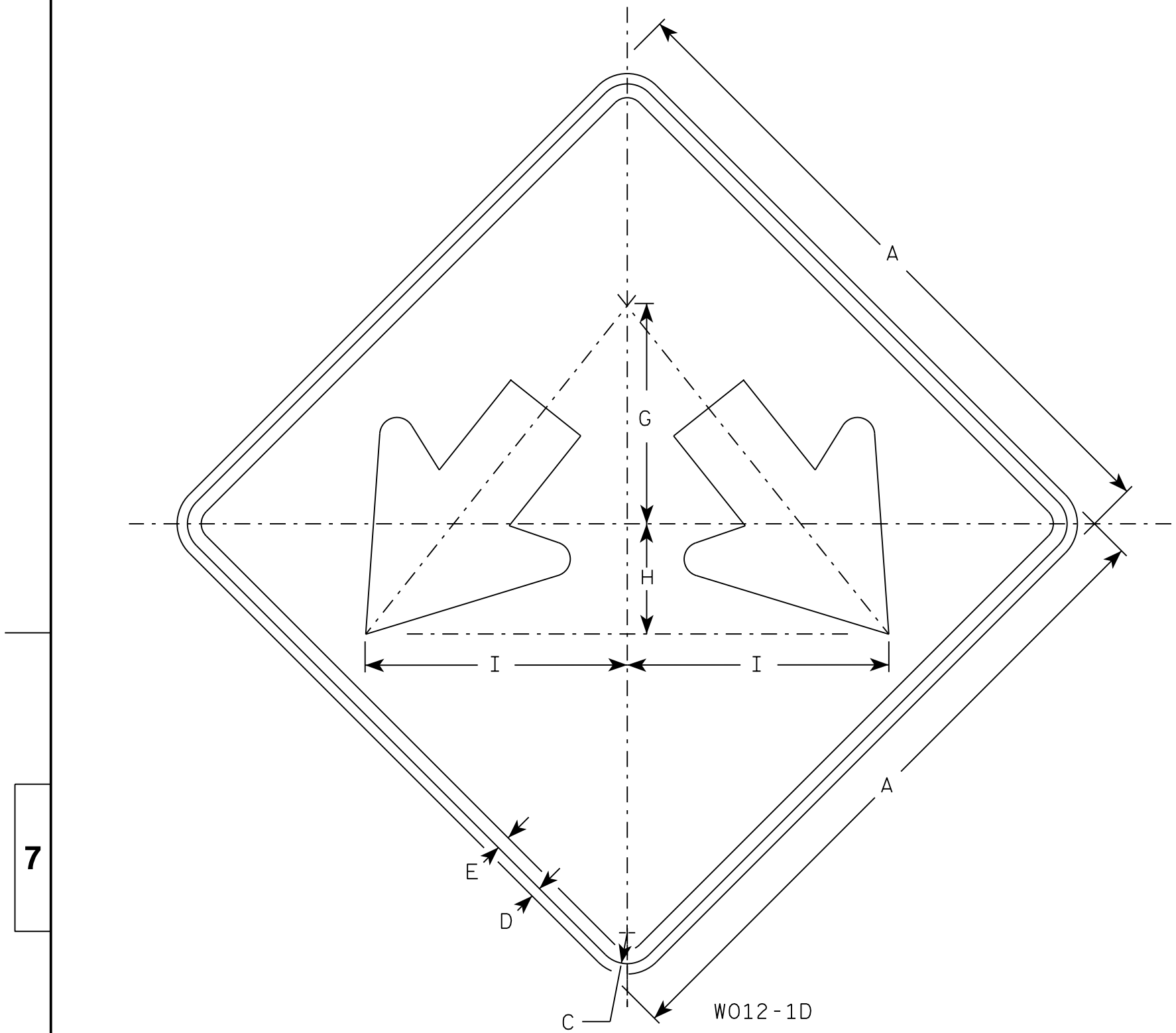
STANDARD SIGN
W06-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 498 W06-3.1

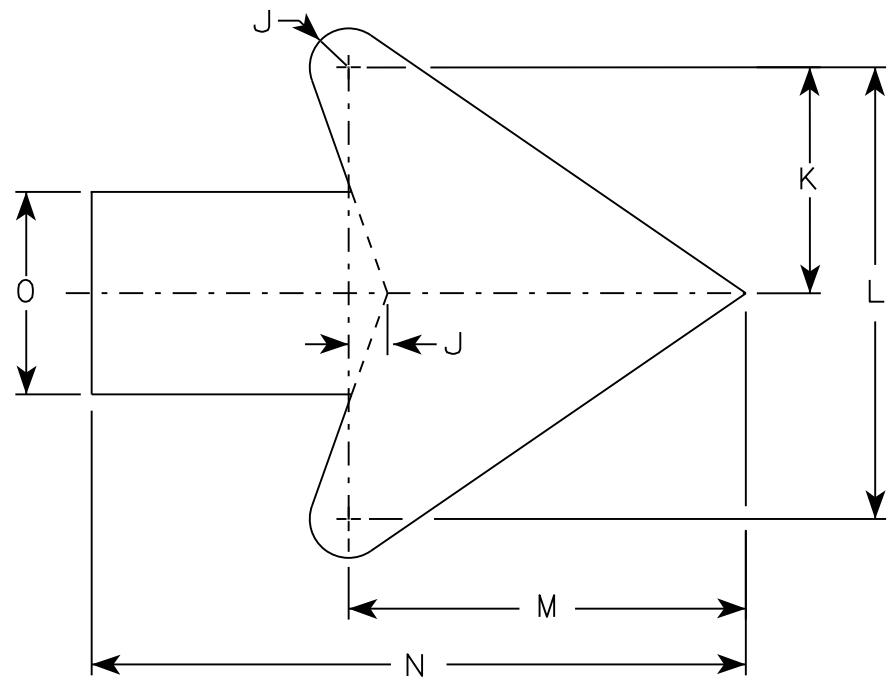
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W012-1D

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	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
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	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

STANDARD SIGN
W012-1D

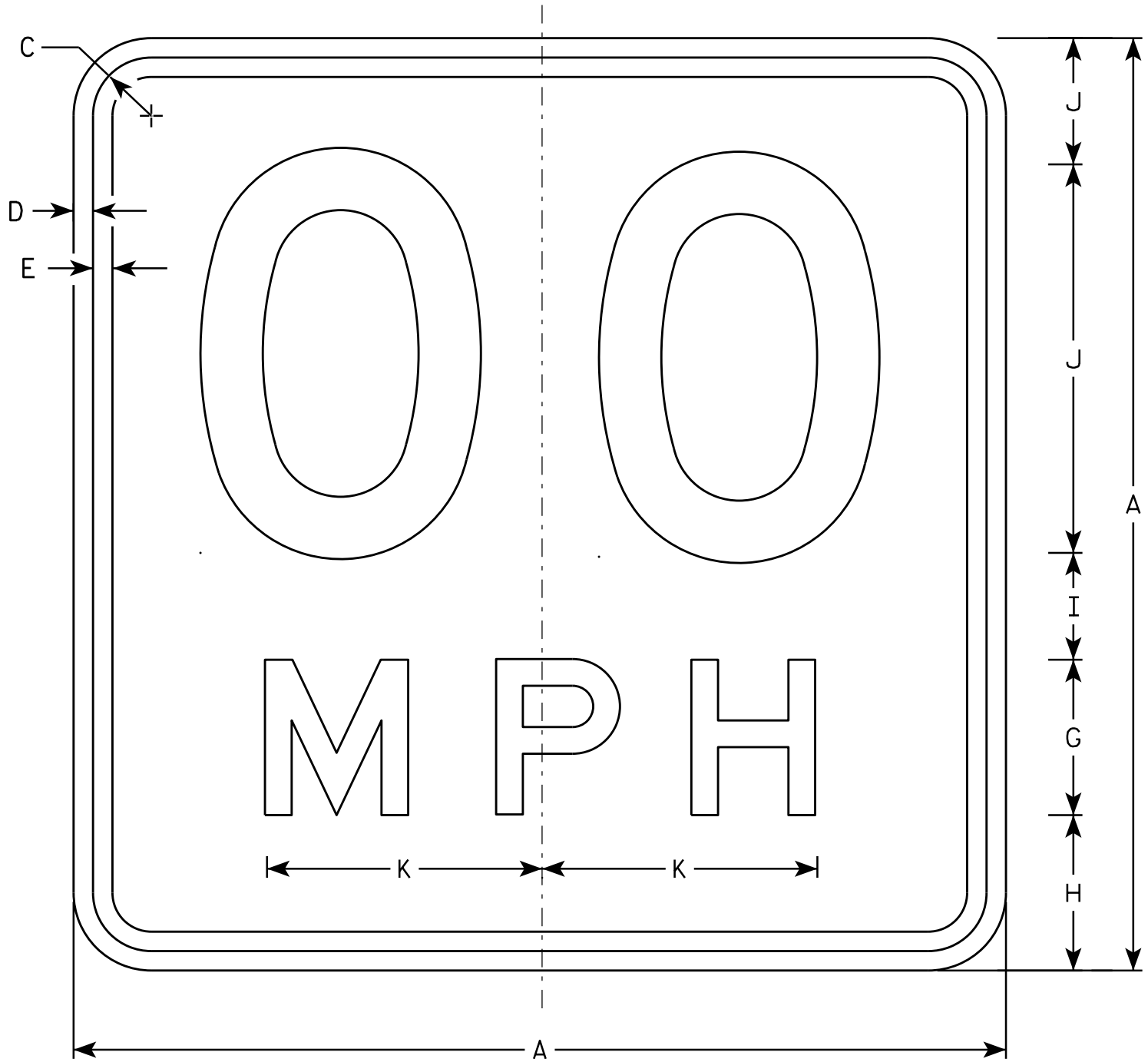
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/28/16 PLATE NO W012-1D.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CADfiles\Projects\tr_stdplate\W0121D.DGN PLOT DATE : 11-AUG-2016 11:28 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.621375:1.000000



W013-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	7 1/8																4.00
2S	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
2M	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
3	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W013-1

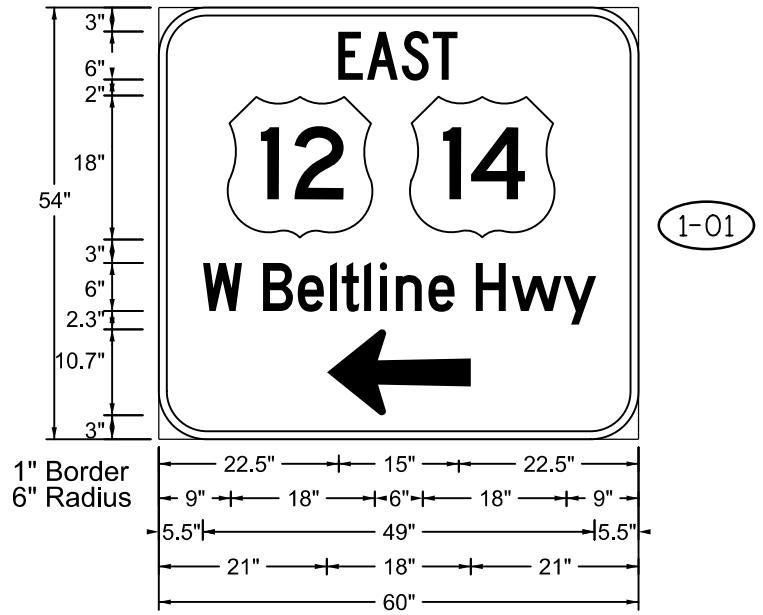
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

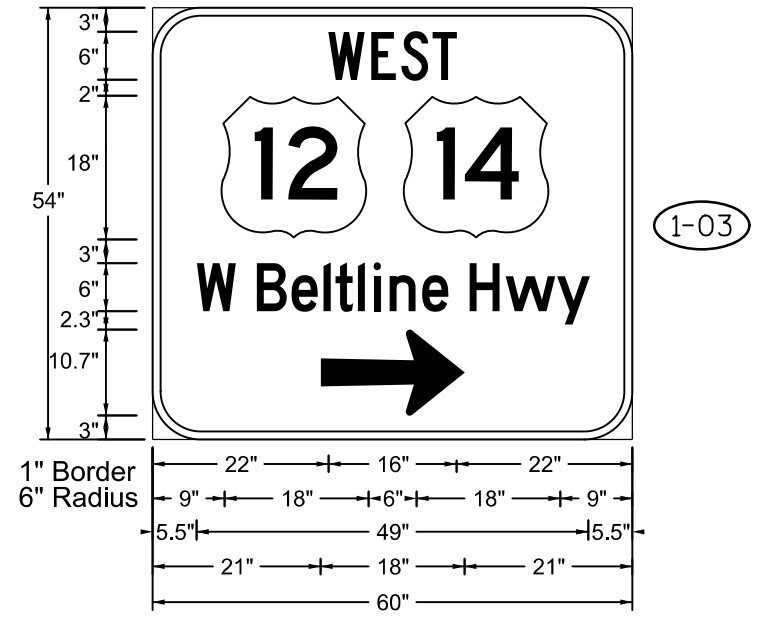
DATE 11/21/13 PLATE 500 W013-1.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

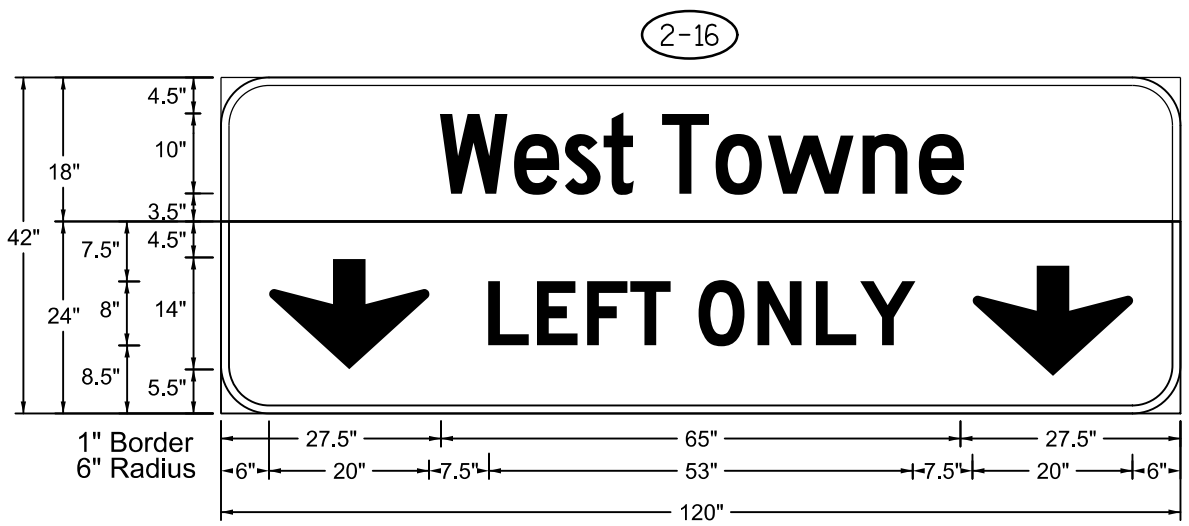
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W0131.DGN PLOT DATE : 02-DEC-2013 13:55 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.794391:1.000000
WISDOT/CADDS SHEET 42



Direction 6" C Series
Highway Numeral 9" D Series
Street Name 6" D Series
Background-Green
Message-White



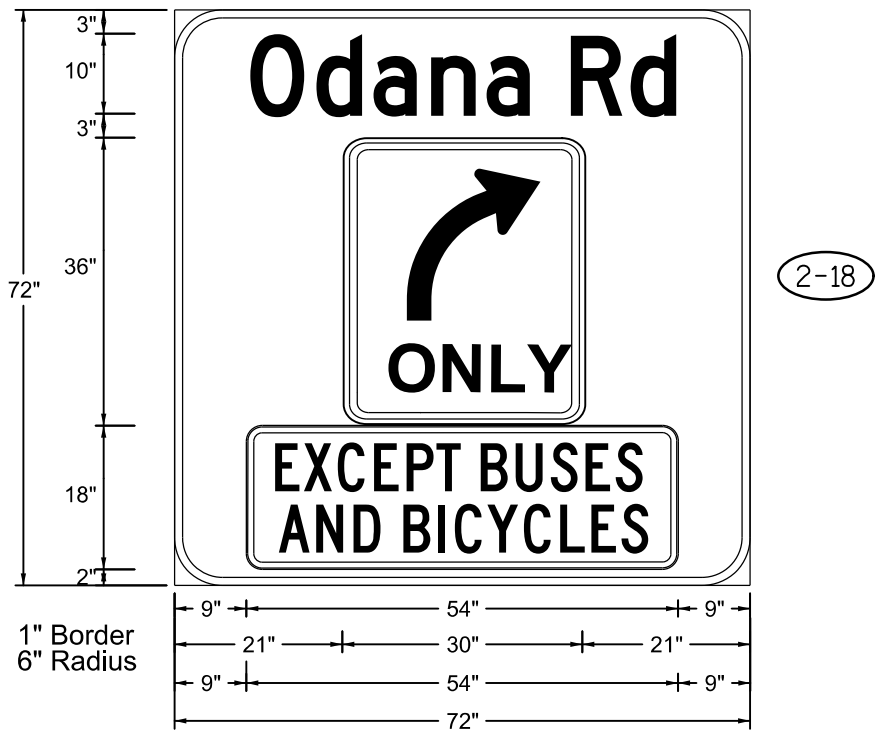
Direction 6" C Series
Highway Numeral 9" D Series
Street Name 6" D Series
Background-Green
Message-White



Background-Green
Message-White

Background-Yellow
Message-Black

Street Name 10" D Series
LEFT ONLY 8" D Series



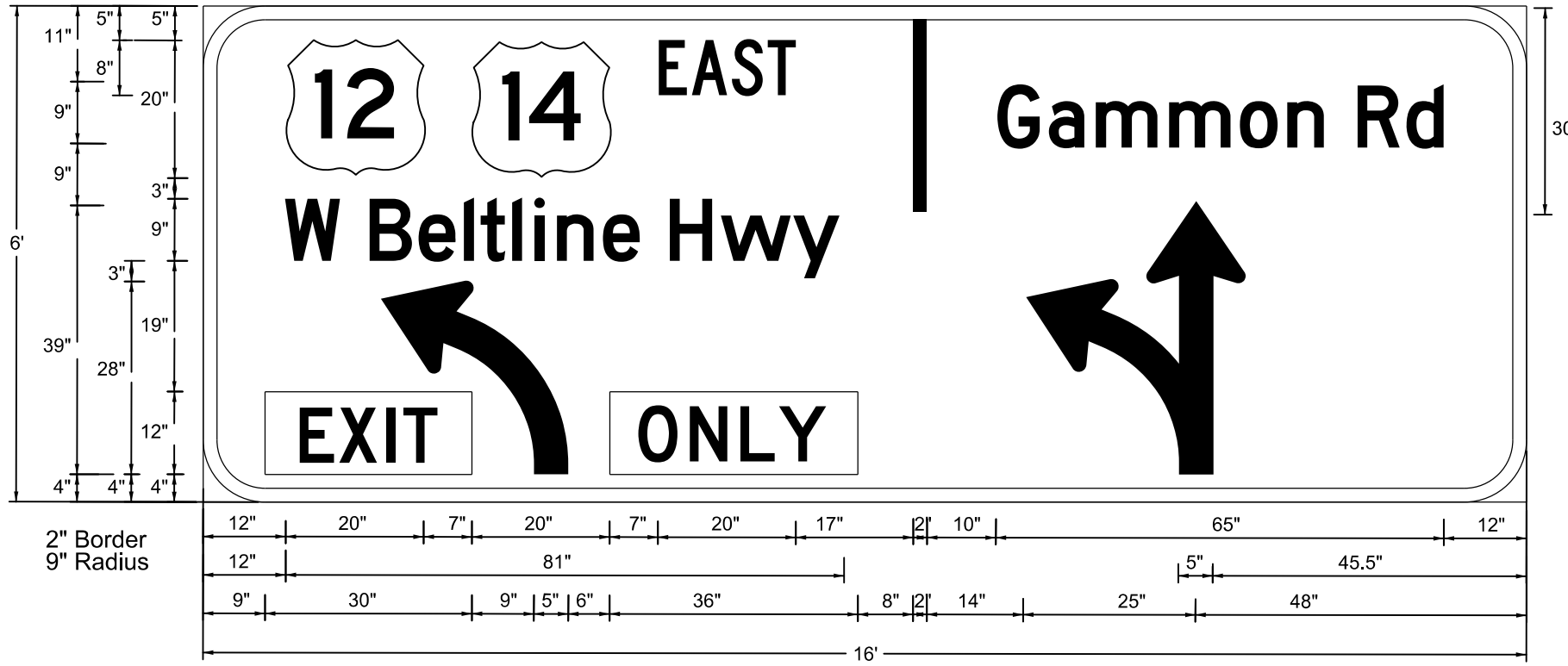
Street Name 10" D Series
EXCEPT BUSES AND BICYCLES 6" C Series
Background-Green
Message-White

7

7

PROJECT NO: 599-10-31/32	HWY: GAMMON RD	COUNTY: DANE	PERMANENT SIGNING	SHEET 501	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\070101_SD.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:2.00001

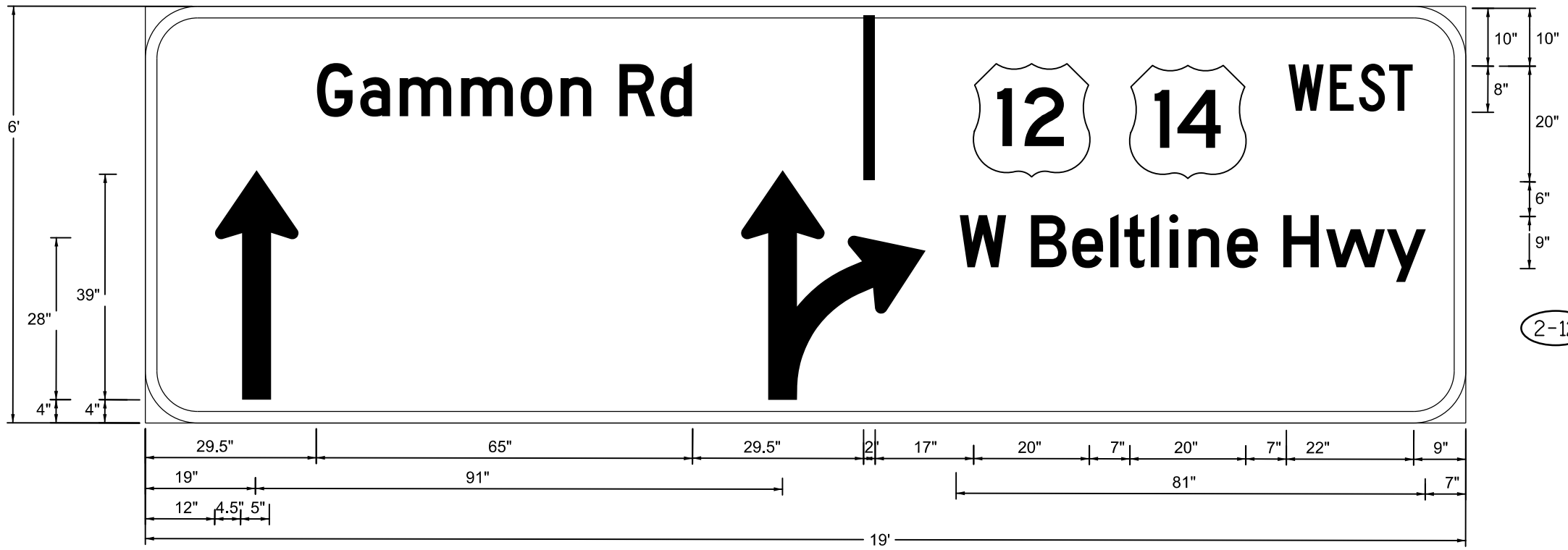


EXIT ONLY is 8" D Series
Black Message on Yellow Background

Highway Numbers are 10" D Series
Black Message on White Shield

Street Names are 9" D Series
Direction is 8" C Series

2-11



2-12

Highway Numbers are 10" D Series
Black Message on White Shield

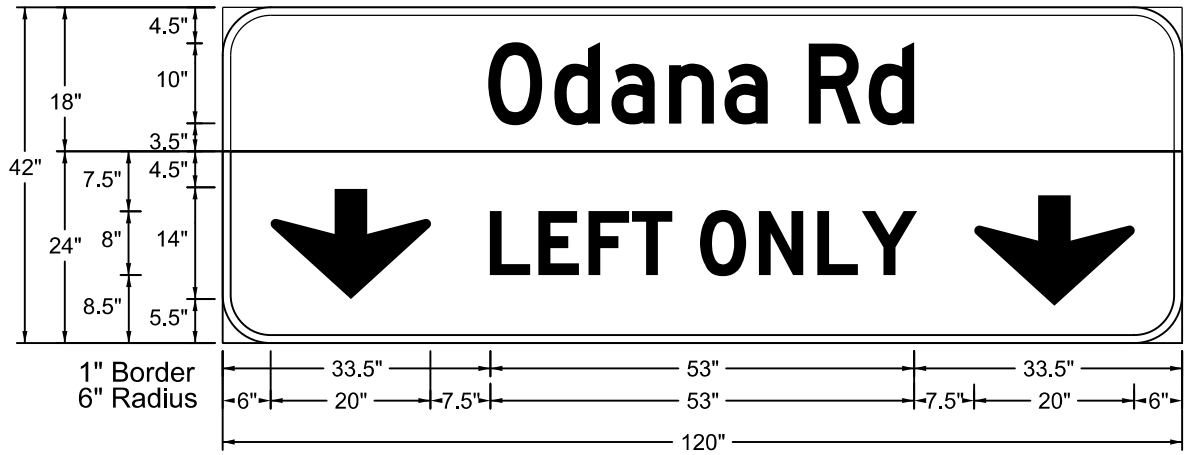
Street Names are 9" D Series
Direction is 8" C Series

PROJECT NO: 599-10-31/32	HWY: GAMMON RD	COUNTY: DANE	PERMANENT SIGNING	SHEET 502	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\070101_SD.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:2.00001

WISDOT/CADDS SHEET 47

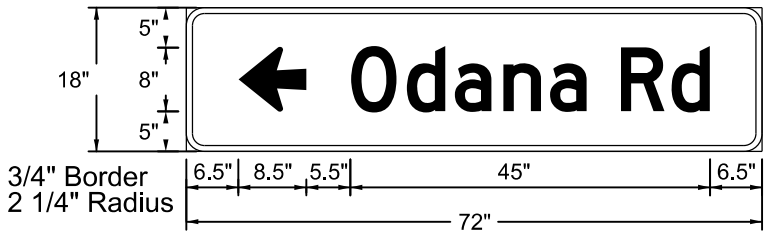
3-11



Background-Green
Message-White

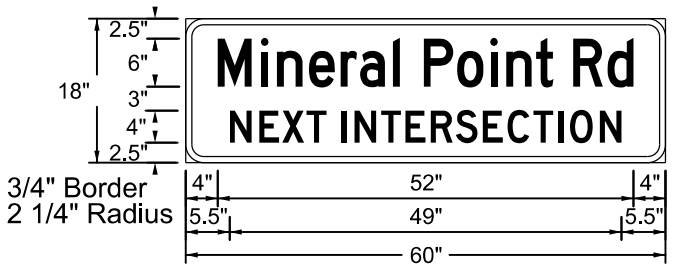
Background-Yellow
Message-Black

Street Name 10" D Series
LEFT ONLY 8" D Series



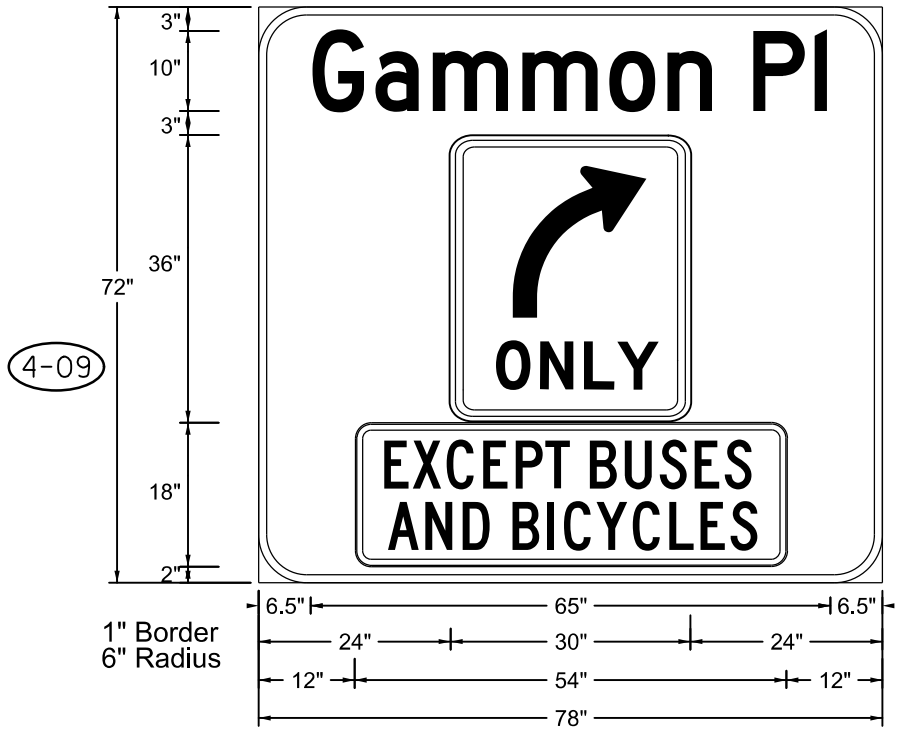
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Street Name 8" D Series



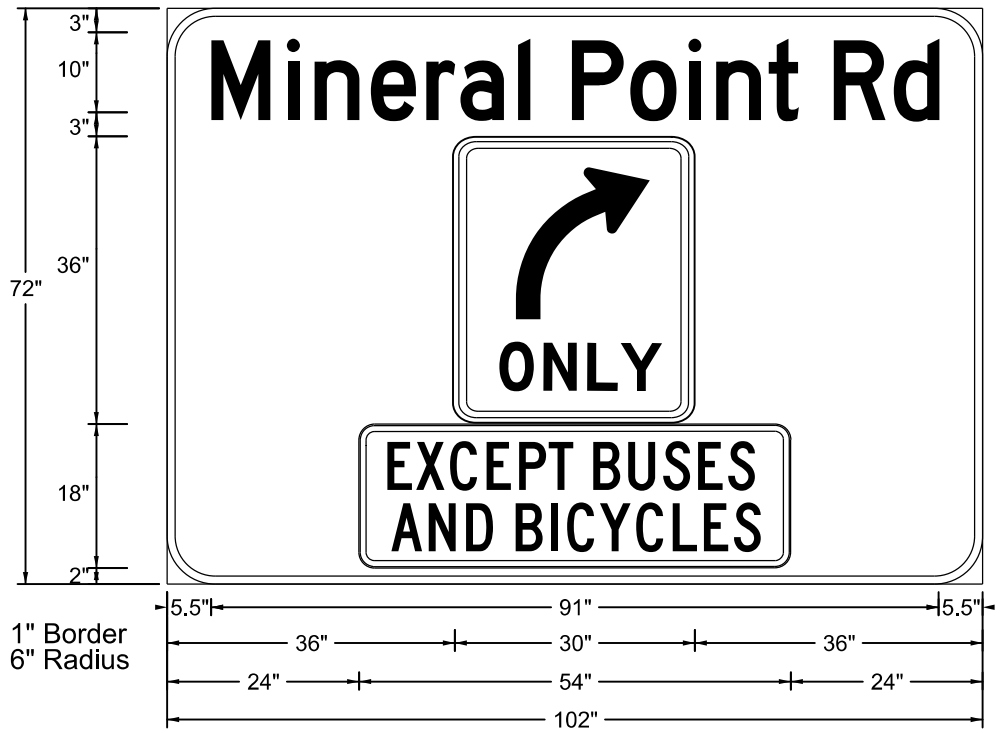
5-03

Street Name 6" D Series
NEXT INTERSECTION 4" D Series



4-09

Street Name 10" D Series
EXCEPT BUSES AND BICYCLES 6" C Series
Background-Green
Message-White



5-14

Street Name 10" D Series
EXCEPT BUSES AND BICYCLES 6" C Series
Background-Green
Message-White

7

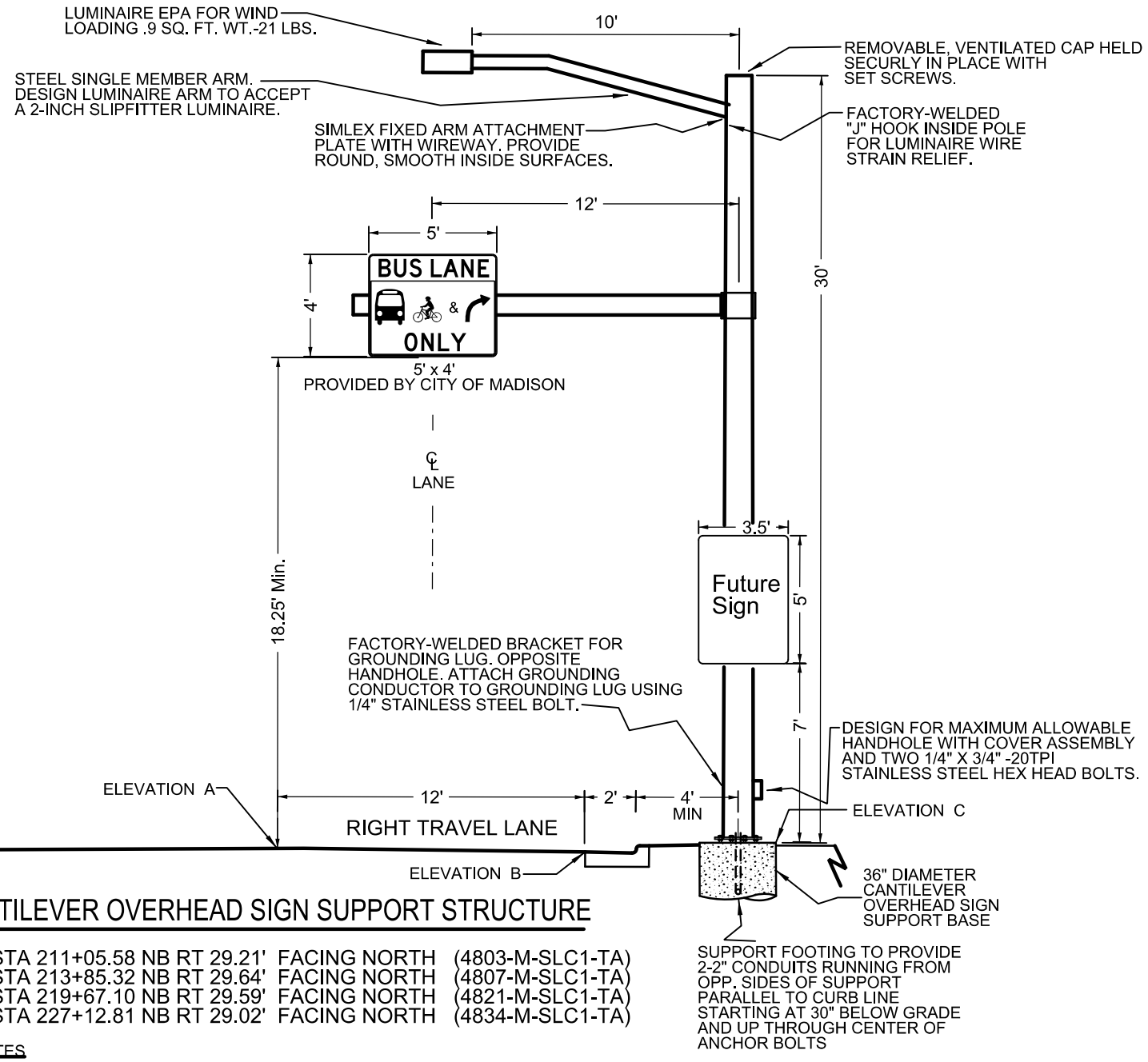
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PROJECT NO: 599-10-31/32	HWY: GAMMON RD	COUNTY: DANE	PERMANENT SIGNING	SHEET 503	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\070101_SD.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:2.00001

WISDOT/CADDS SHEET 47

ELEVATION TABLE				
STRUCTURE	STA.	ELEVATION A	ELEVATION B	ELEVATION C
S-13-522	STA 211+05.58'NB'	1072.87	1072.63	1073.12
S-13-523	STA 213+85.32'NB'	1063.89	1063.65	1064.54
S-13-525	STA 219+67.10'NB'	1042.02	1041.78	1042.20
S-13-526	STA 227+12.81'NB'	1042.72	1042.48	1043.04

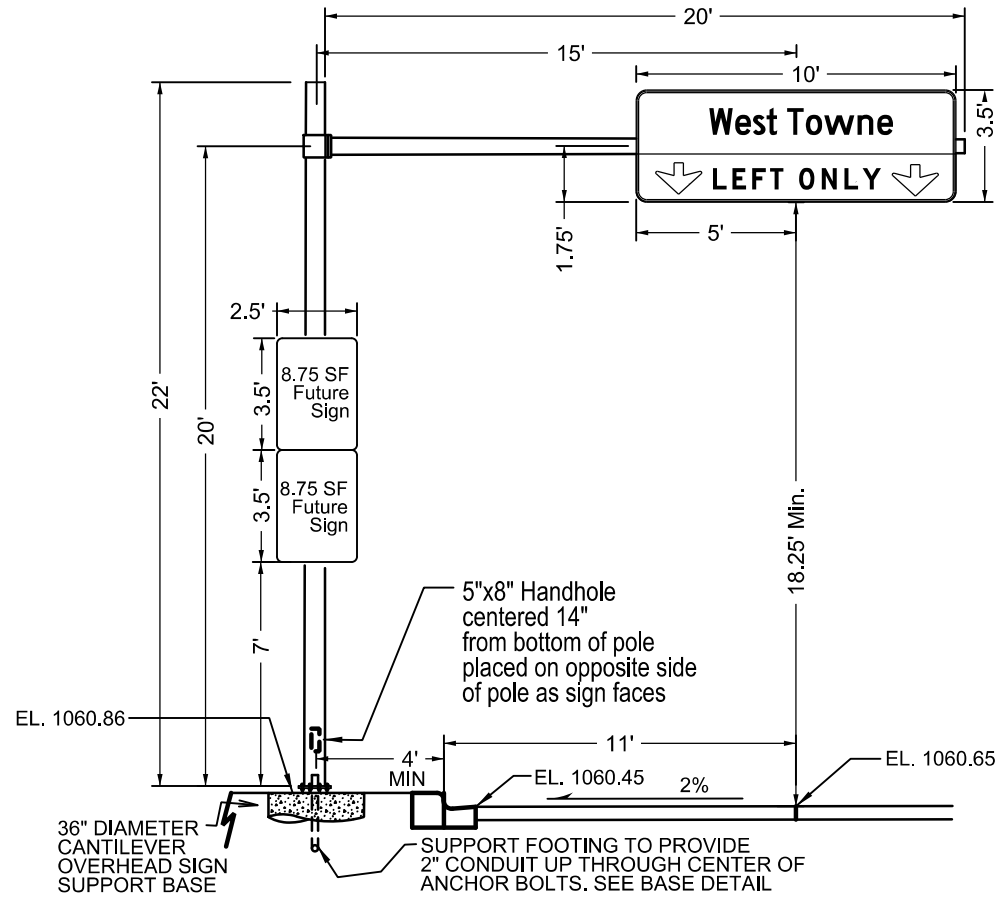


CANTILEVER OVERHEAD SIGN SUPPORT STRUCTURE

NEW---S-13-522 - STA 211+05.58 NB RT 29.21' FACING NORTH (4803-M-SLC1-TA)
NEW---S-13-523 - STA 213+85.32 NB RT 29.64' FACING NORTH (4807-M-SLC1-TA)
NEW---S-13-525 - STA 219+67.10 NB RT 29.59' FACING NORTH (4821-M-SLC1-TA)
NEW---S-13-526 - STA 227+12.81 NB RT 29.02' FACING NORTH (4834-M-SLC1-TA)

GENERAL NOTES

1) DRAWINGS NOT TO SCALE
2) DESIGN NEW OVERHEAD SIGN SUPPORTS ACCORDING TO THE LATEST EDITION OF THE STATE OF WISCONSIN "STANDARD SPECIFICATIONS" AND AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS."
3) PROVIDE AN IDENTIFICATION PLAQUE FOR ALL OVERHEAD SIGN SUPPORTS, TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN SUPPORT."
4) PROVIDE DESIGN CALCULATIONS



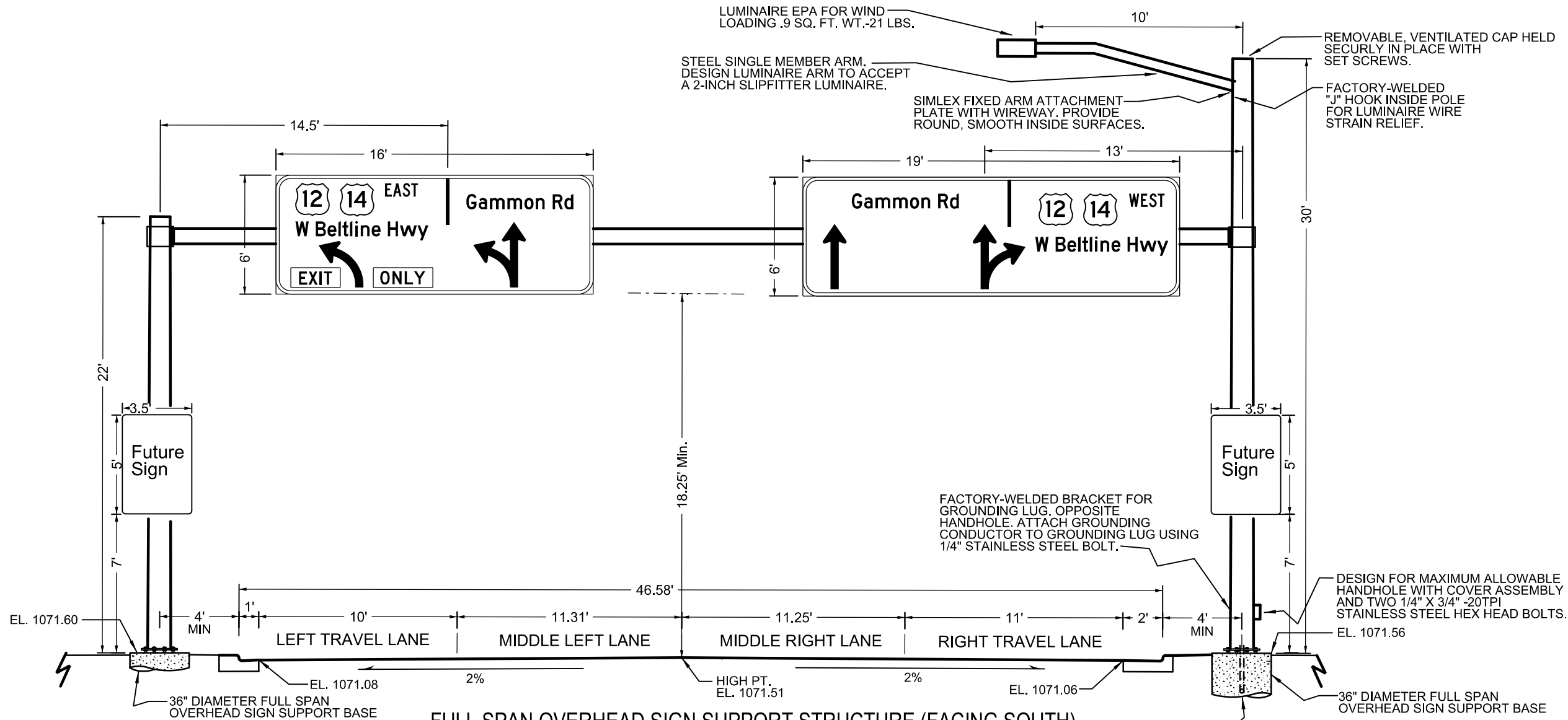
CANTILEVER OVERHEAD SIGN SUPPORT STRUCTURE

S-13-515 - STA 214+48 NB LT 36.00' FACING NORTH

8

8

PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	PERMANENT SIGNING STRUCTURE DETAILS	SHEET 504	E



FULL SPAN OVERHEAD SIGN SUPPORT STRUCTURE (FACING SOUTH)

S-13-514 - STA 211+72.34 SB LT 28.26' (4804-A-SLC1-TA)
- STA 211+72.34 SB RT 26.31'

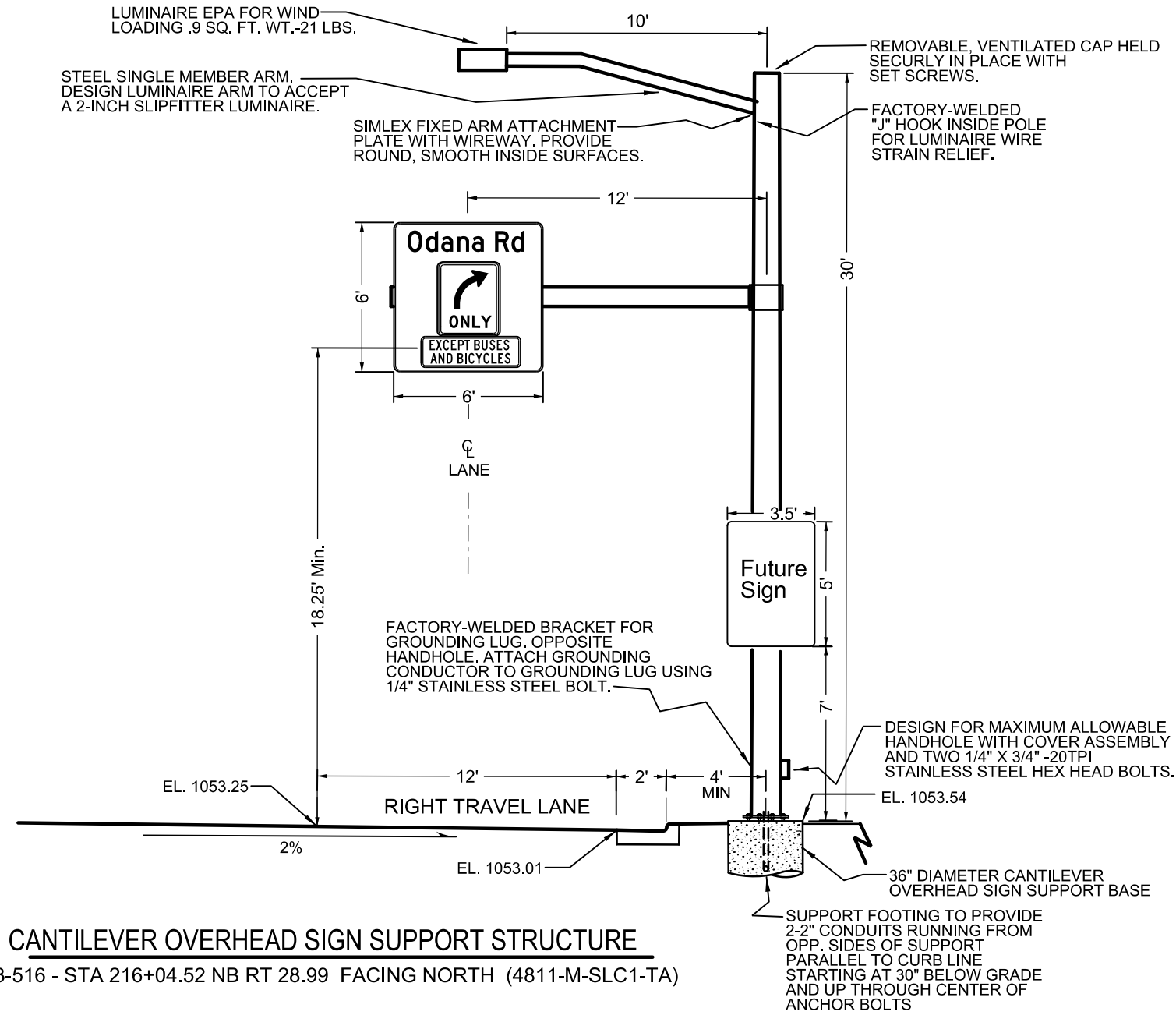
GENERAL NOTES

1) DRAWINGS NOT TO SCALE
2) DESIGN NEW OVERHEAD SIGN SUPPORTS ACCORDING TO THE LATEST EDITION OF THE STATE OF WISCONSIN "STANDARD SPECIFICATIONS" AND AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS."
3) PROVIDE AN IDENTIFICATION PLAQUE FOR ALL OVERHEAD SIGN SUPPORTS, TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN SUPPORT."
4) PROVIDE DESIGN CALCULATIONS

8

8

PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	PERMANENT SIGNING STRUCTURE DETAILS	SHEET 505	E

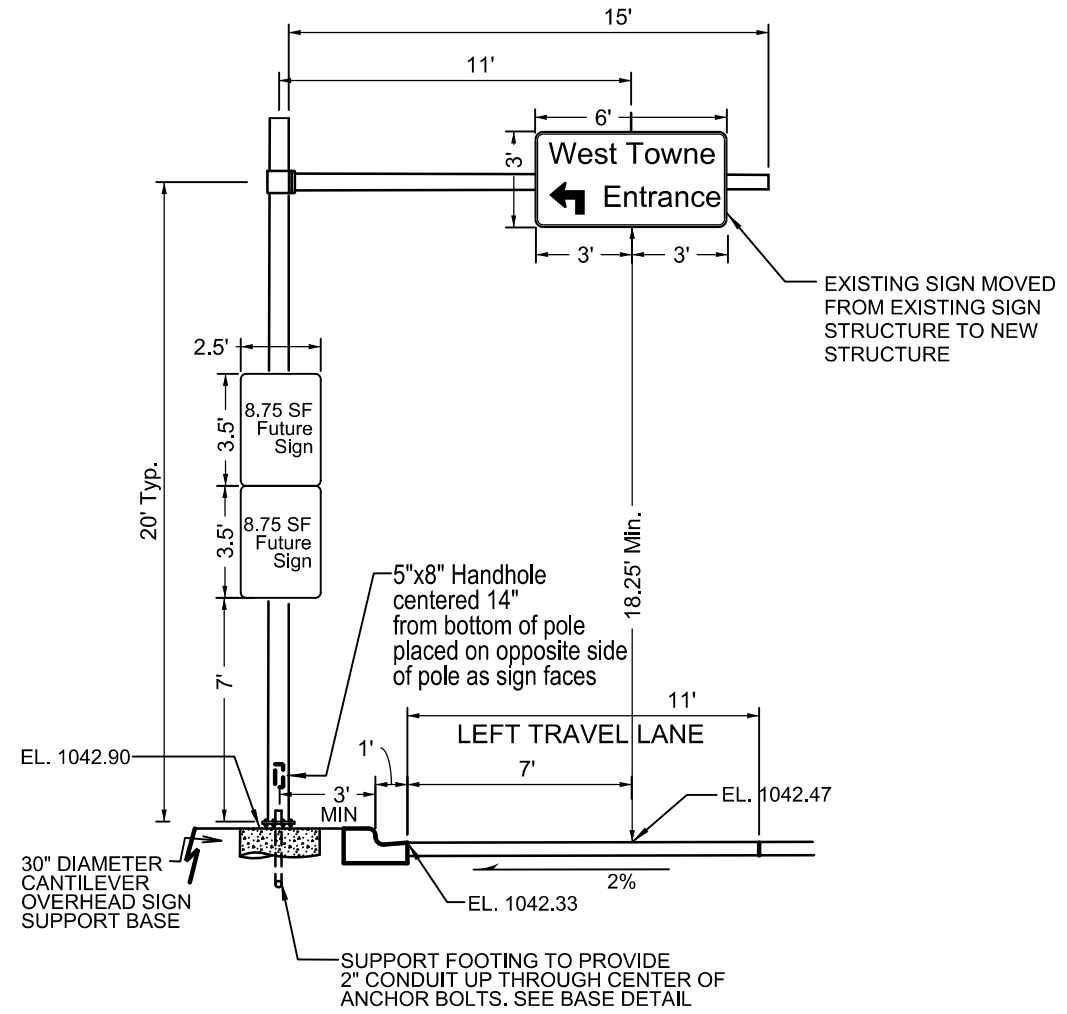


CANTILEVER OVERHEAD SIGN SUPPORT STRUCTURE

S-13-516 - STA 216+04.52 NB RT 28.99 FACING NORTH (4811-M-SLC1-TA)

GENERAL NOTES

1) DRAWINGS NOT TO SCALE
2) DESIGN NEW OVERHEAD SIGN SUPPORTS ACCORDING TO THE LATEST EDITION OF THE STATE OF WISCONSIN "STANDARD SPECIFICATIONS" AND AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS."
3) PROVIDE AN IDENTIFICATION PLAQUE FOR ALL OVERHEAD SIGN SUPPORTS, TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN SUPPORT."
4) PROVIDE DESIGN CALCULATIONS



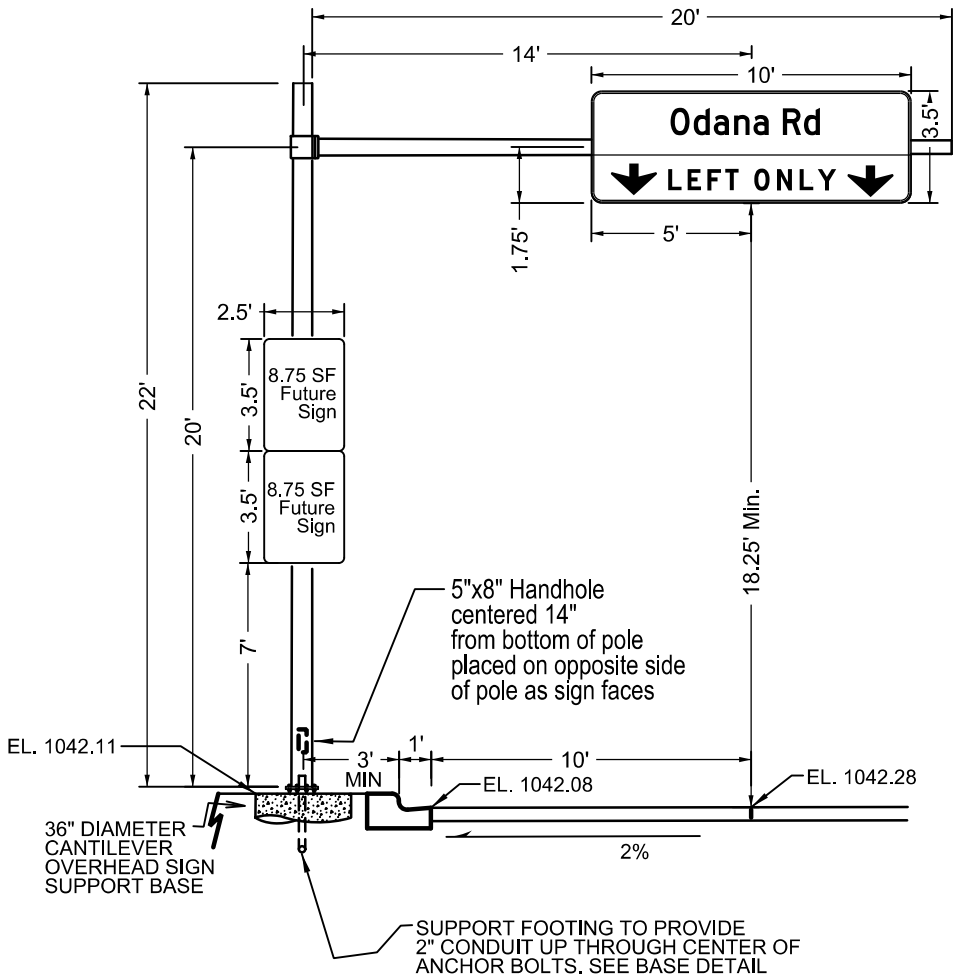
CANTILEVER OVERHEAD SIGN SUPPORT STRUCTURE

S-13-517- STA 219+50 NB LT 15.00' FACING NORTH

8

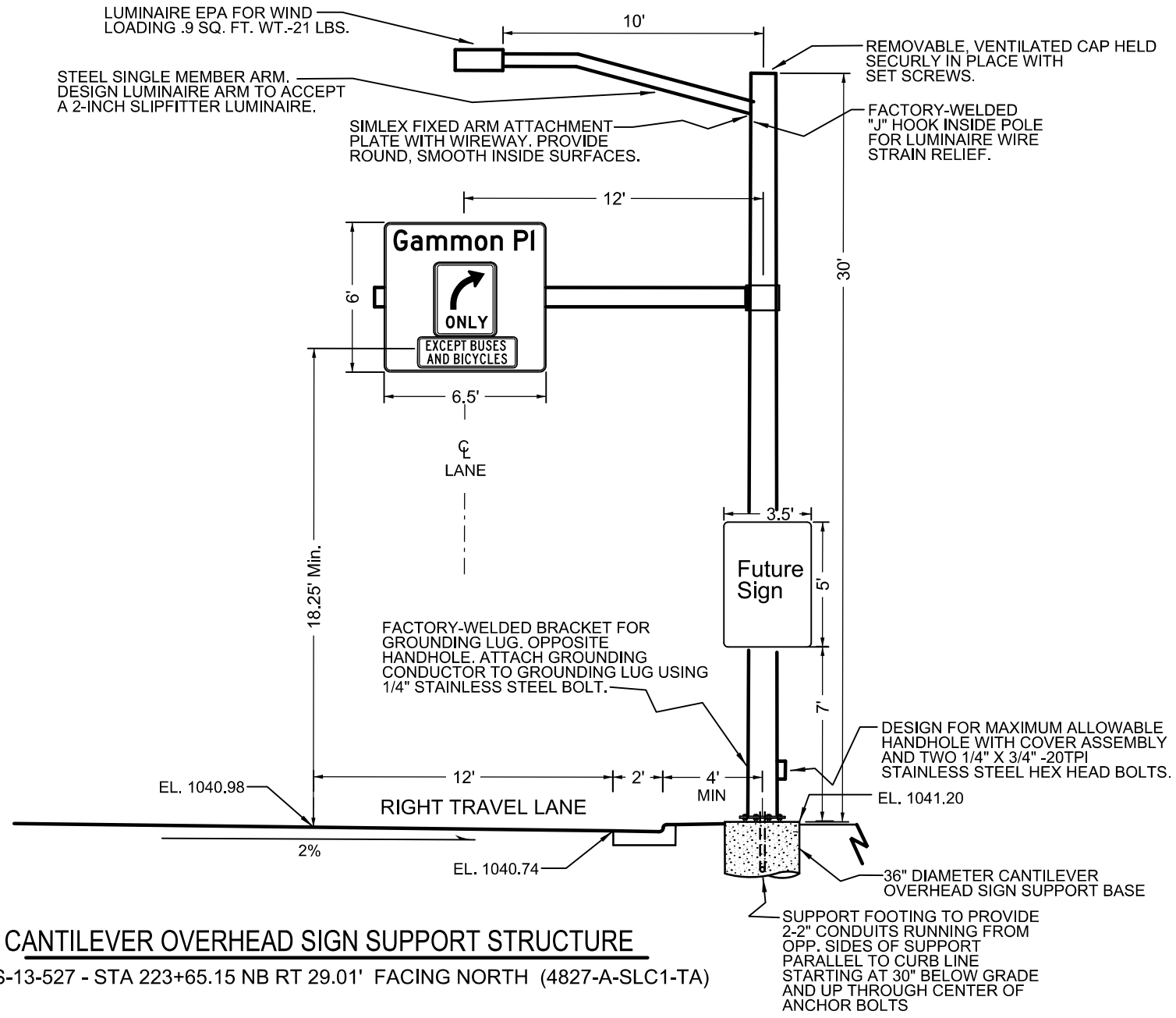
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PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	PERMANENT SIGNING STRUCTURE DETAILS	SHEET 506	E



CANTILEVER OVERHEAD SIGN SUPPORT STRUCTURE (FACING SOUTH)

S-13-518 - STA 220+25 SB RT 35.00'



CANTILEVER OVERHEAD SIGN SUPPORT STRUCTURE

NEW---S-13-527 - STA 223+65.15 NB RT 29.01' FACING NORTH (4827-A-SLC1-TA)

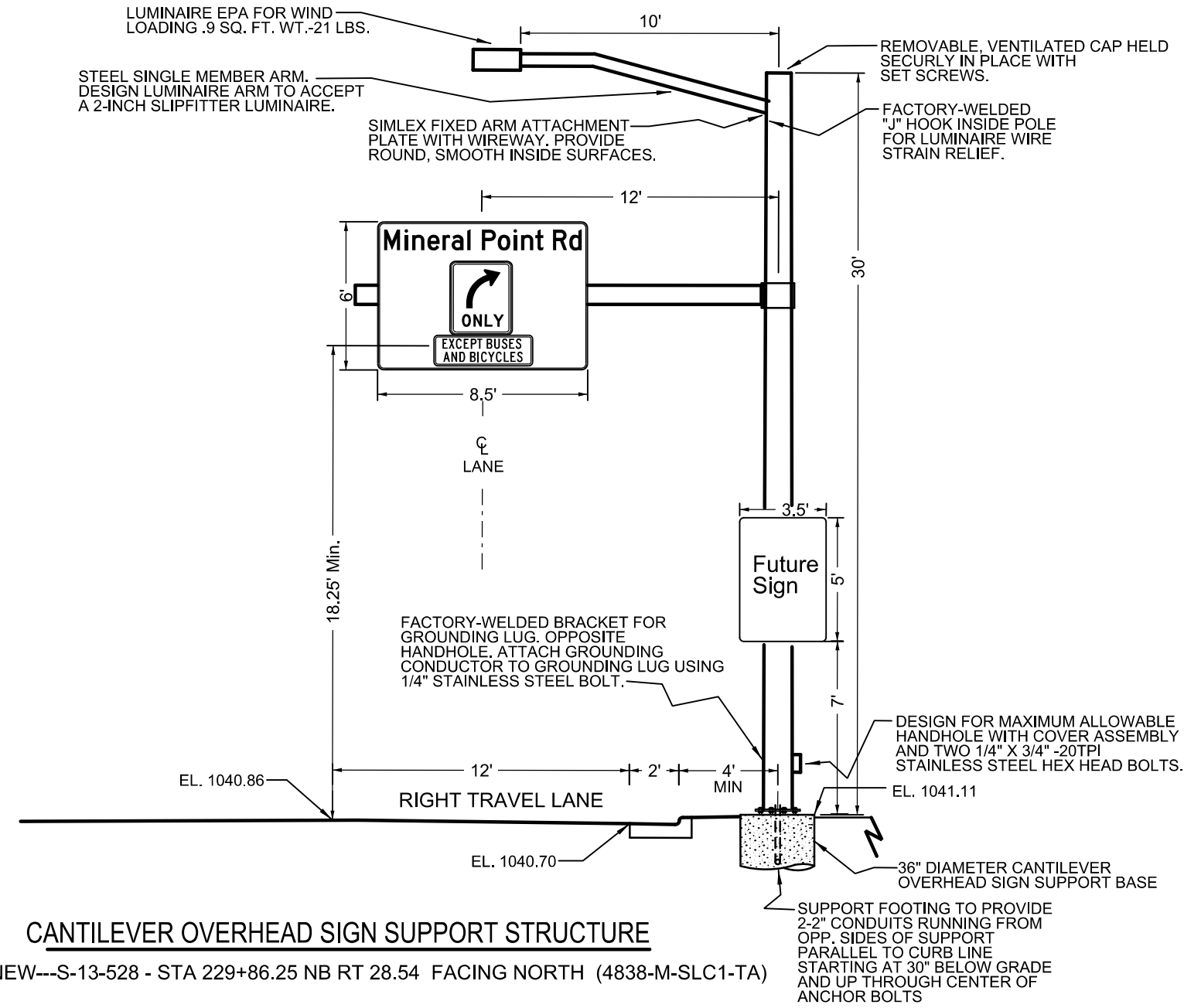
GENERAL NOTES

1) DRAWINGS NOT TO SCALE
2) DESIGN NEW OVERHEAD SIGN SUPPORTS ACCORDING TO THE LATEST EDITION OF THE STATE OF WISCONSIN "STANDARD SPECIFICATIONS" AND AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS."
3) PROVIDE AN IDENTIFICATION PLAQUE FOR ALL OVERHEAD SIGN SUPPORTS, TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN SUPPORT."
4) PROVIDE DESIGN CALCULATIONS

8

8

PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	PERMANENT SIGNING STRUCTURE DETAILS	SHEET 507	E



CANTILEVER OVERHEAD SIGN SUPPORT STRUCTURE

NEW---S-13-528 - STA 229+86.25 NB RT 28.54 FACING NORTH (4838-M-SLC1-TA)

GENERAL NOTES

1) DRAWINGS NOT TO SCALE
2) DESIGN NEW OVERHEAD SIGN SUPPORTS ACCORDING TO THE LATEST EDITION OF THE STATE OF WISCONSIN "STANDARD SPECIFICATIONS" AND AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS."
3) PROVIDE AN IDENTIFICATION PLAQUE FOR ALL OVERHEAD SIGN SUPPORTS, TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN SUPPORT."
4) PROVIDE DESIGN CALCULATIONS

8

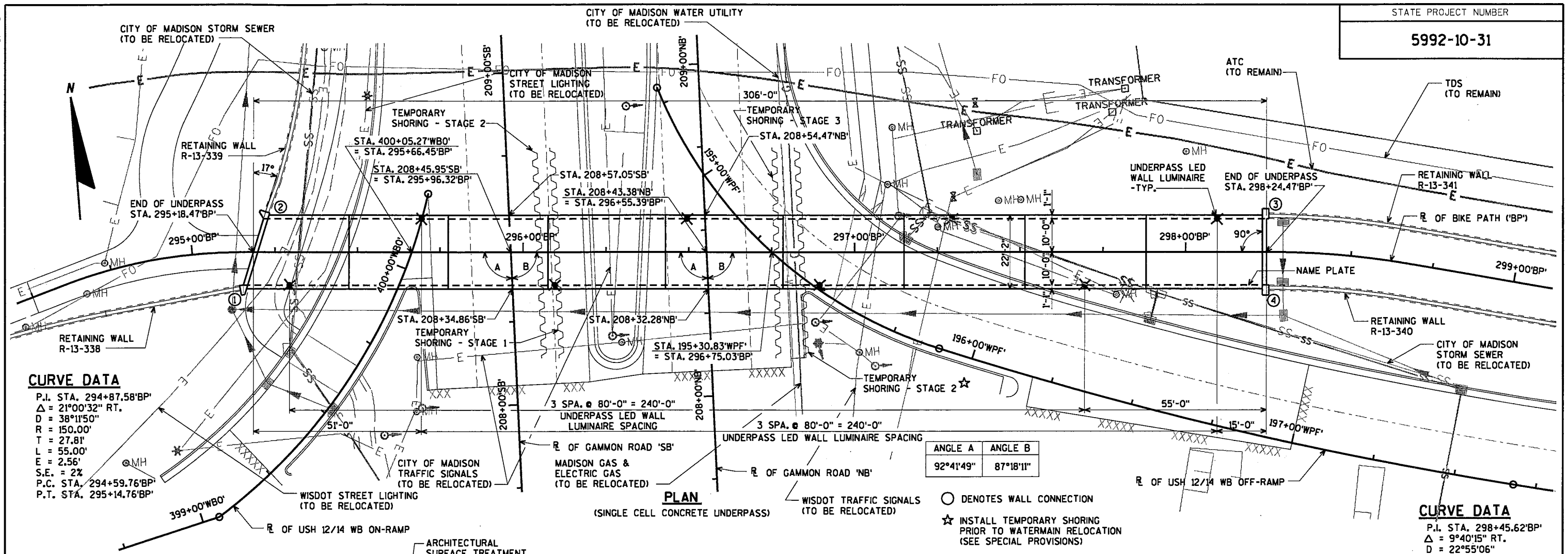
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PROJECT NO: 5992-10-31	HWY: GAMMON RD	COUNTY: DANE	PERMANENT SIGNING STRUCTURE DETAILS	SHEET 508	E

$PRFNAME$
U:\41-0737.00 - Gammon Road Bike Path - Madison\Structures\Final\B-13-0870\B-13-870 gp.dgn

STATE PROJECT NUMBER

5992-10-31



CURVE DATA

P.I. STA. 294+87.58'BP'
Δ = 21°00'32" RT.
D = 38°11'50"
R = 150.00'
T = 27.81'
L = 55.00'
E = 2.56'
S.E. = 2%
P.C. STA. 294+59.76'BP'
P.T. STA. 295+14.76'BP'

ANGLE A	ANGLE B
92°41'49"	87°18'11"

PLAN

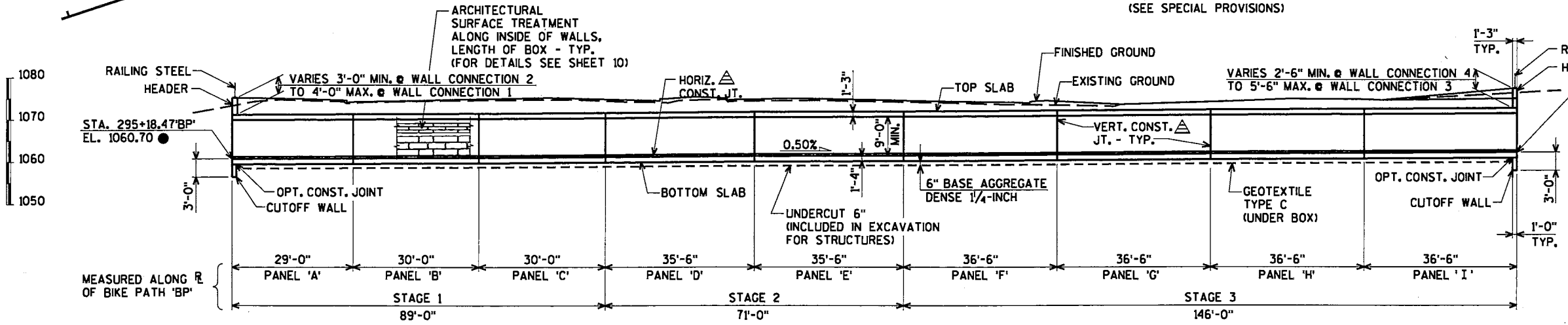
(SINGLE CELL CONCRETE UNDERPASS)

○ DENOTES WALL CONNECTION

☆ INSTALL TEMPORARY SHORING PRIOR TO WATERMAIN RELOCATION (SEE SPECIAL PROVISIONS)

CURVE DATA

P.I. STA. 298+45.62'BP'
Δ = 9°40'15" RT.
D = 22°55'06"
R = 250.00'
T = 21.15'
L = 42.20'
E = 0.89'
S.E. = 2%
P.C. STA. 298+24.47'BP'
P.T. STA. 298+66.67'BP'



ELEVATION

(LOOKING NORTH)
(TAKEN ALONG ℄ OF BIKE PATH ('BP'))

△ 18" RUBBERIZED MEMBRANE WATERPROOFING UP WALLS ALONG THE VERT. CONST. JOINTS AND ALONG HORIZONTAL CONSTRUCTION JOINTS.

● ELEVATION TAKEN AT REFERENCE LINE OF BIKE PATH ('BP').

LIST OF DRAWINGS

1. GENERAL PLAN
2. TYPICAL SECTIONS, QUANTITIES AND NOTES
3. PROFILE GRADE LINES
4. UNDERPASS DETAILS
5. PANEL 'A' BAR SLEET LAYOUT
6. PANELS 'B' & 'C' BAR STEEL LAYOUT
7. PANELS 'D' & 'E' BAR STEEL LAYOUT
8. PANELS 'F' THRU 'I' BAR STEEL LAYOUT
9. BILL OF BARS & DETAILS
10. ARCHITECTURAL SURFACE TREATMENT DETAILS
11. RAILING STEEL DETAILS
12. SUBSURFACE EXPLORATION

FOR GENERAL NOTES AND DESIGN DATA SEE SHEET 2

WISCONSIN
CHRISTOPHER B. McMAHON
E-29454
EAU CLAIRE WI
PROFESSIONAL ENGINEER
8/27/19

BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608)-266-8489

CONSULTANT CONTACT:
CHRIS MCMAHON
(715)-834-3161

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 08/28/19
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-13-870

GAMMON ROAD OVER PEDESTIAN UNDERPASS

COUNTY DANE ~~TOWN~~/CITY/~~VILLAGE~~ MADISON

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
JLB	CJM	CLS/ZSS	CBM

GENERAL PLAN

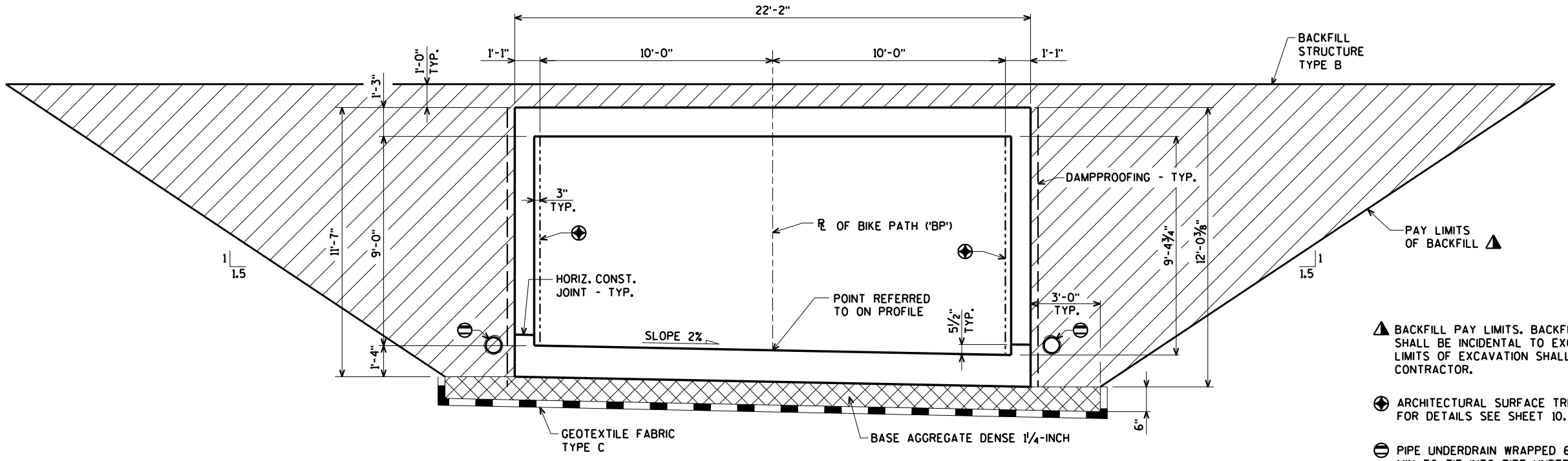
SHEET 509 12

DATE:

DATE: DATE: DATE:
CHECKED BY: BACK CHECKED BY: CORRECTED BY:

8

8



TYPICAL SECTION THRU UNDERPASS AND BACKFILL DETAIL

(LOOKING EAST)

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

⊕ ARCHITECTURAL SURFACE TREATMENT FOR DETAILS SEE SHEET 10.

⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO TIE INTO PIPE UNDERDRAINS AT THE ADJACENT RETAINING WALLS AT THE ENDS OF THE UNDERPASS.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS" SHALL BE THE EXISTING GROUND LINE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE ELEVATION AND SECTION EXISTING PRIOR TO EXCAVATION WITHIN THE LENGTH OF THE BOX.

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE B" REQUIRED ON THE BOX CULVERT AS SHOWN ON THE DETAIL ON THIS SHEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEMS	AMOUNT
206.2000	EXCAVATION FOR STRUCTURES CULVERTS B-13-870	1 LS
210.2500	BACKFILL STRUCTURE TYPE B	7,345 TON
305.0120	BASE AGGREGATE DENSE 1¼-INCH	315 TON
504.0100	CONCRETE MASONRY CULVERTS	896 CY
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	158,390 LB
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	2,290 LB
511.1200.600	TEMPORARY SHORING STRUCTURE B-13-870	3,300 SF
516.0100	DAMPPROOFING	875 SY
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	75 SY
517.1015.S	CONCRETE STAINING MULTI-COLOR B-13-870	5,900 SF
517.1050.S	ARCHITECTURAL SURFACE TREATMENT B-13-870	4,750 SF
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	615 LF
645.0105	GEOTEXTILE TYPE C	990 SY
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	615 LF
653.0208	JUNCTION BOXES 8x8x8 - INCH	8 EACH
SPV.0090.600	RAILING STEEL B-13-870	53 LF

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: 1.30
OPERATING RATING FACTOR: 1.68
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 250 KIPS

EARTH LOAD: DESIGNED FOR FILL HEIGHT RANGE OF 2.5 TO 7 FEET

MATERIAL PROPERTIES:

CONCRETE MASONRY f'_c = 3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60) f_y = 60,000 p.s.i.

FOUNDATION DATA:

THE MAXIMUM DESIGN SOIL PRESSURE IS 1.0 TONS PER SQ. FT.

TRAFFIC DATA:

A.A.D.T. = 34,100 (2020)
A.A.D.T. = 37,400 (2040)
R.D.S. = 40 M.P.H.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-870

DRAWN BY CLS/ZSS | PLANS CK'D. CBM

TYPICAL SECTION, QUANTITIES, AND NOTES

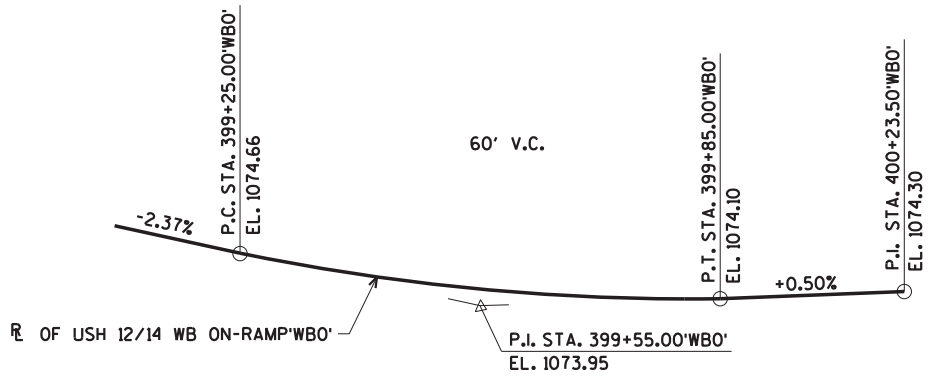
SHEET 2 OF 12
510

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

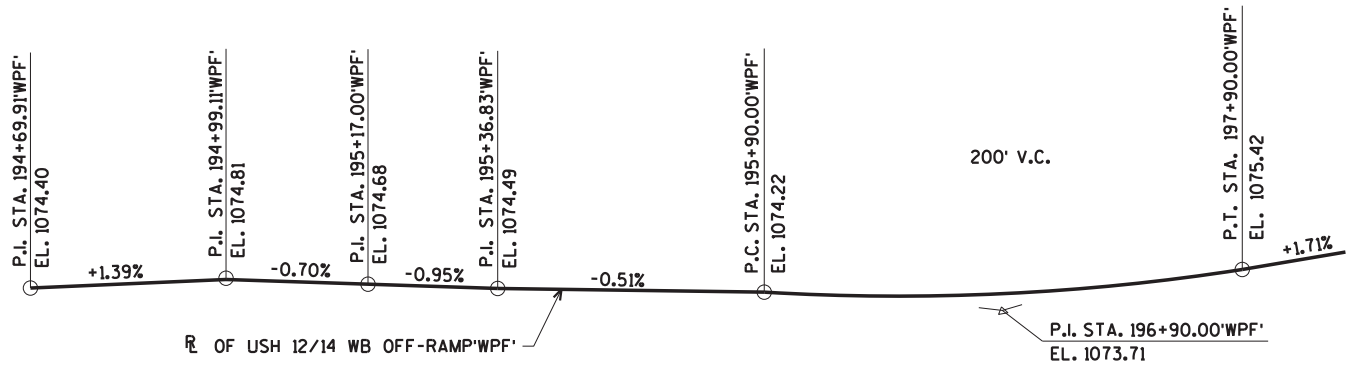
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U:\41-0737.00 - Gamman Road Bike Path - Madison\Structures\Final\B-13-0870\B-13-870 ty qn.dgn

8/27/2019

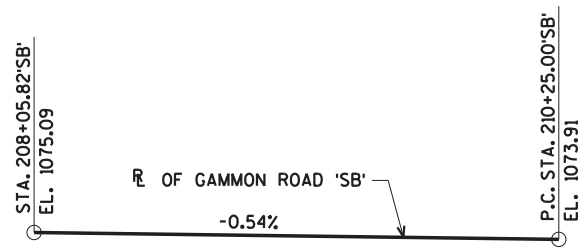
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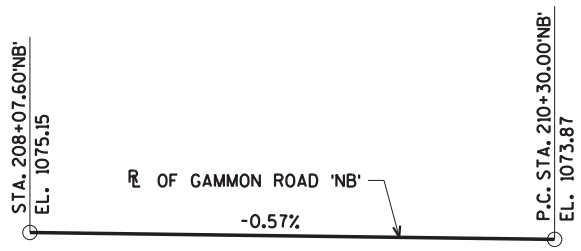
PROFILE GRADE LINE
(USH 12/14 WB ON-RAMP'WBO')



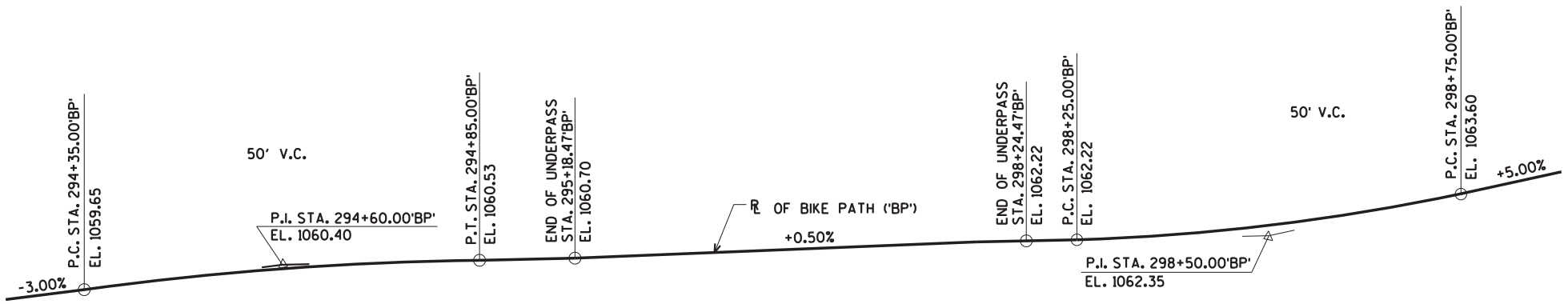
PROFILE GRADE LINE
(USH 12/14 WB OFF-RAMP'WPF')



PROFILE GRADE LINE
(GAMMON ROAD 'SB')



PROFILE GRADE LINE
(GAMMON ROAD 'NB')



PROFILE GRADE LINE
(BIKE PATH 'BP')

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-870

DRAWN BY CLS/ZSS | PLANS CK'D. CBM

PROFILE GRADE LINES

SHEET 3 OF 12
511

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

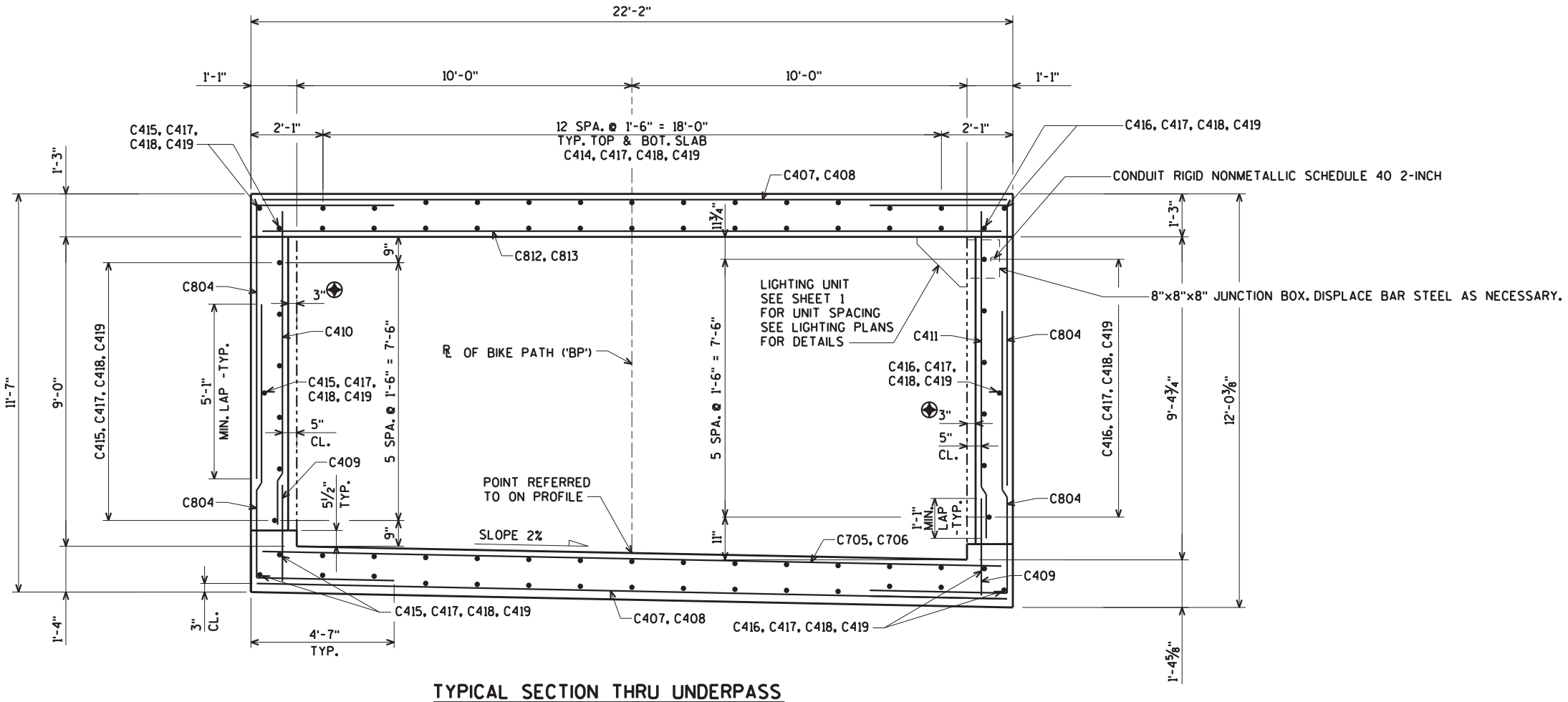
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8

$PRFNAME$
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STATE PROJECT NUMBER

5992-10-31



TYPICAL SECTION THRU UNDERPASS

(LOOKING EAST)

ARCHITECTURAL SURFACE TREATMENT
FOR DETAILS SEE SHEET 10.

8

8

WORK THIS SHEET WITH SHEETS 5 THRU 8.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-870

DRAWN BY ZSS | PLANS CK'D. CBM

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

UNDERPASS DETAILS

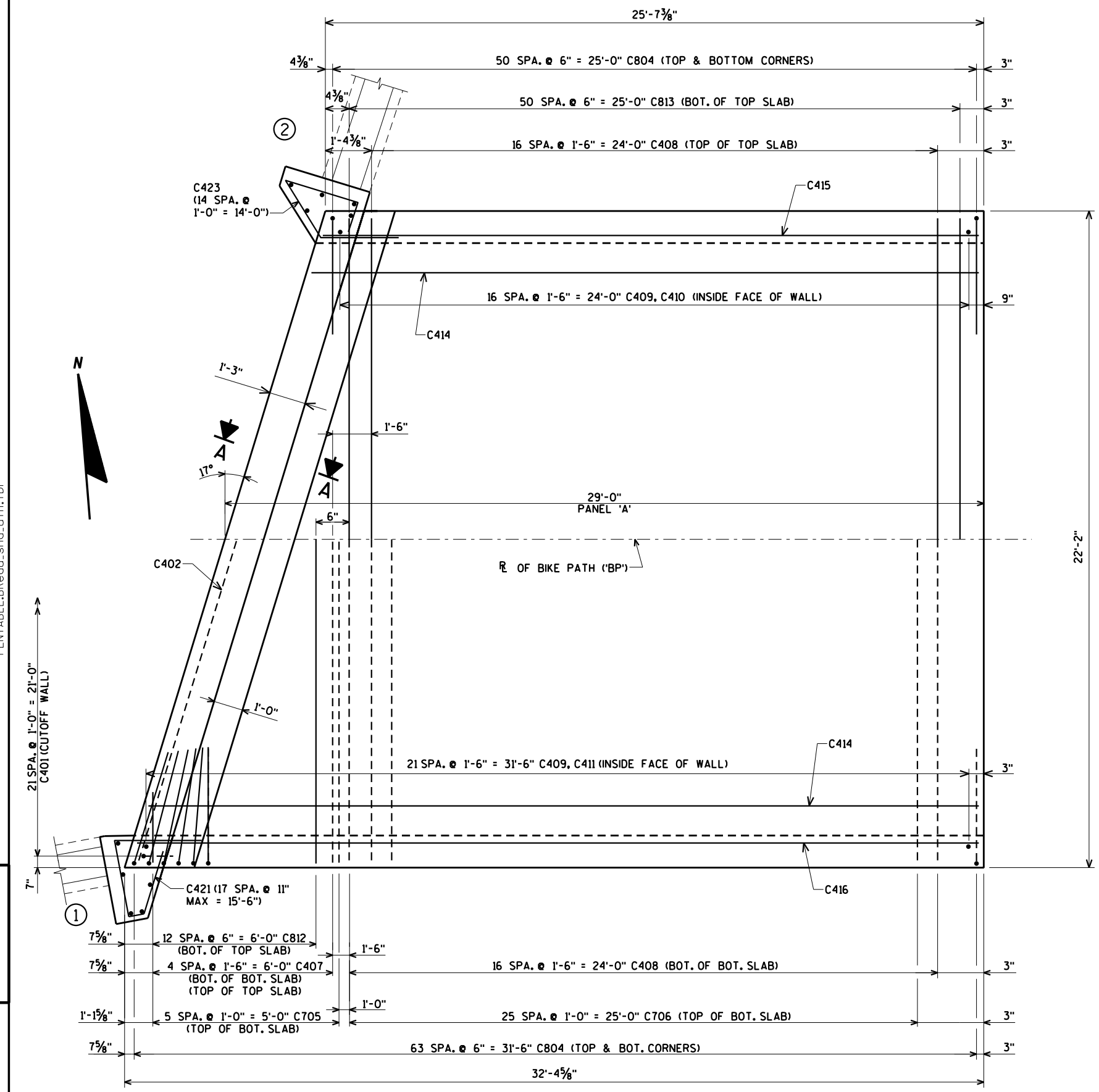
SHEET 4 OF 12
512

7/2/2019
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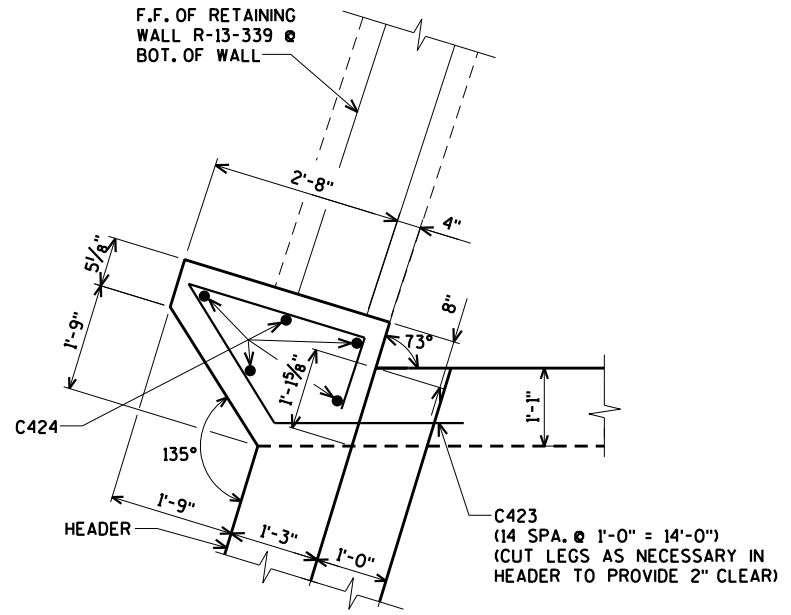
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STATE PROJECT NUMBER

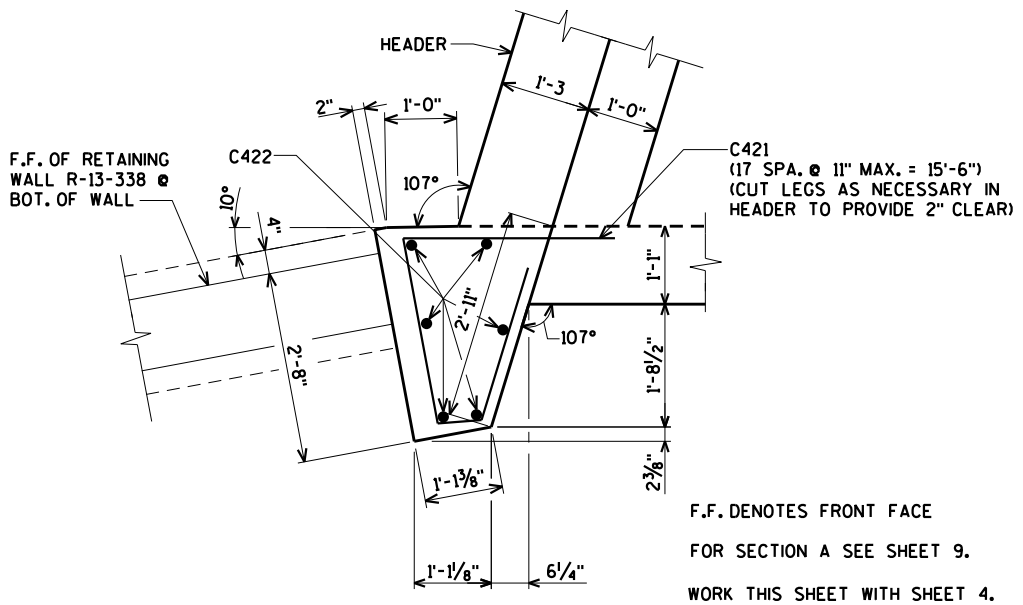
5992-10-31



PANEL 'A' BAR STEEL LAYOUT



WALL CONNECTION 2



WALL CONNECTION 1

F.F. DENOTES FRONT FACE

FOR SECTION A SEE SHEET 9.

WORK THIS SHEET WITH SHEET 4.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-870

DRAWN BY ZSS | PLANS CK'D. CBM

PANEL 'A'
BAR STEEL
LAYOUT

SHEET 5 OF 12
513

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Eau Claire, WI 54701
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8

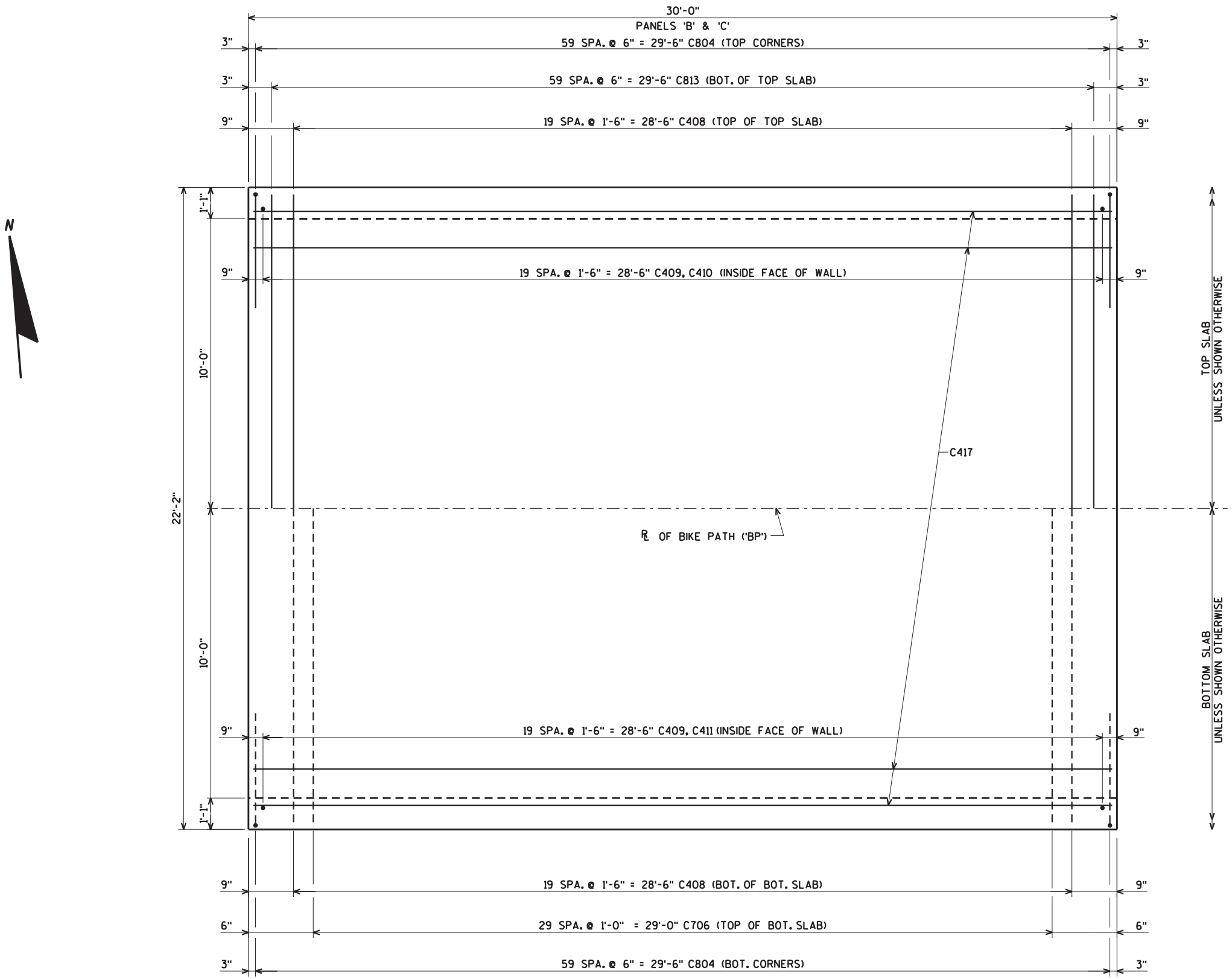
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V:±Structures-EC±41-0737.00 - Gammon Road Bike Path - Madison±Structures±Final±B-13-0870±B-13-870 box.dgn

STATE PROJECT NUMBER

5992-10-31



PANEL 'B' BAR STEEL LAYOUT

(PANEL 'C' SIMILAR)

WORK THIS SHEET WITH SHEET 4.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-870

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PANELS 'B' & 'C' BAR STEEL LAYOUT

SHEET 6 OF 12
514

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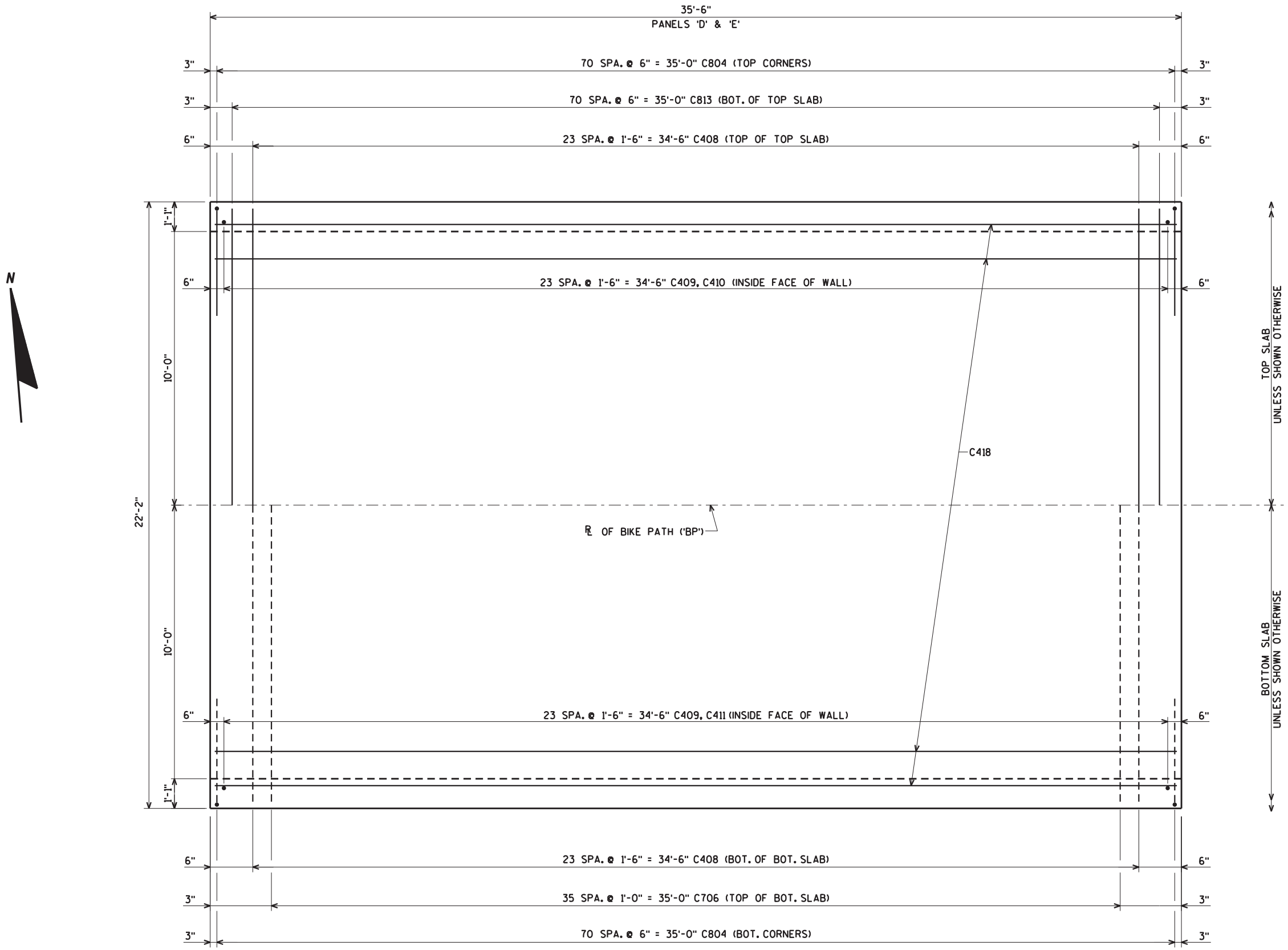
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STATE PROJECT NUMBER

5992-10-31



N

PANEL 'D' BAR STEEL LAYOUT

(PANEL 'E' SIMILAR)

WORK THIS SHEET WITH SHEET 4.

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STRUCTURE B-13-870

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PANELS 'D' & 'E'' BAR STEEL LAYOUT

SHEET 7 OF 12

515

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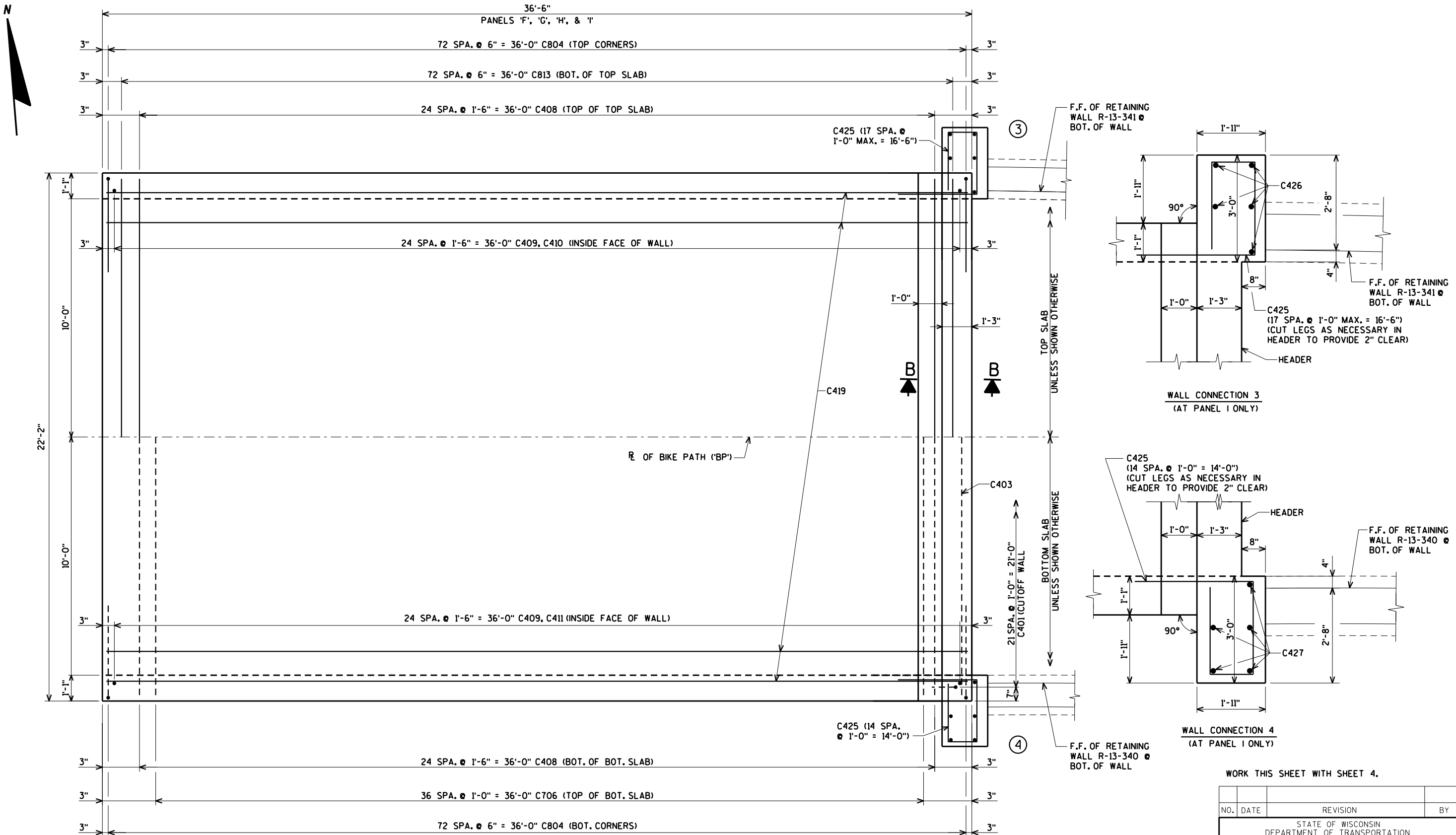
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STATE PROJECT NUMBER

5992-10-31



WALL CONNECTION 3
(AT PANEL I ONLY)

WALL CONNECTION 4
(AT PANEL I ONLY)

PANEL 'I' BAR STEEL LAYOUT

(PANELS 'F', 'G', & 'H' SIMILAR)

F.F. DENOTES FRONT FACE

FOR SECTION B SEE SHEET 9.

WORK THIS SHEET WITH SHEET 4.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-870

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PANELS 'F' THRU 'I' BAR STEEL LAYOUT

SHEET 8 OF 12
516

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STATE PROJECT NUMBER

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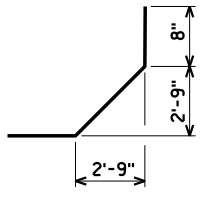
BILL OF BARS

BAR NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR SERIES	2,290# COATED 158,390# UNCOATED LOCATION
C401		44	3-6	X		CUTOFF WALL
C402		3	22-10			WEST CUTOFF WALL
C403		3	21-10			EAST CUTOFF WALL
C804		2,446	12-7	X		BOX CORNERS
C705		6	11-1		⊗	BOX BOT. SLAB TRANS. PANEL A
C706		306	21-10			BOX BOT. SLAB TRANS.
C407		10	11-1		⊗	BOX BOT. & TOP SLAB TRANS. PANEL A
C408		410	21-10			BOX BOT. & TOP SLAB TRANS.
C409		415	2-8			BOX WALLS DOWELS
C410		205	9-5			BOX NORTH WALLS VERT.
C411		210	9-10			BOX SOUTH WALLS VERT.
C812		13	11-1		⊗	BOX TOP SLAB TRANS. PANEL A
C813		605	21-10			BOX TOP SLAB TRANS.
C414		52	28-7		⊗	BOX BOT. & TOP SLAB LONG. PANEL A
C415		11	25-3			BOX NORTH WALL LONG. PANEL A
C416		11	32-0			BOX SOUTH WALL LONG. PANEL A
C417		148	29-8			BOX LONG. PANELS B & C
C418		148	35-2			BOX LONG. PANELS D & E
C419		296	36-2			BOX LONG. PANELS F THRU I
C520		512	4-0			SLAB AND WALL CONST. JOINTS
C421	X	17	7-11	X		CORNER 1 HORIZ.
C422	X	6	15-7			CORNER 1 VERT.
C423	X	15	8-3	X		CORNER 2 HORIZ.
C424	X	5	14-1			CORNER 2 VERT.
C425	X	33	8-5	X		CORNERS 3 & 4 HORIZ.
C426	X	5	16-8			CORNER 3 VERT.
C427	X	5	14-1			CORNER 4 VERT.
C828	X	3	22-10			WEST HEADER TRANS. BOT.
C529	X	46	10-4	X		TOP SLAB LONG. @ HEADERS
C430	X	16	5-3	X	⊗	WEST HEADER VERT. F.F.
C531	X	23	5-1	X	⊗	WEST HEADER VERT. B.F.
C432	X	46	5-0	X		HEADERS VERT.
C433	X	8	24-6			WEST HEADER HORIZ. E.F.
C834	X	3	21-10			EAST HEADER TRANS. BOT.
C435	X	16	5-9	X	⊗	EAST HEADER VERT. F.F.
C536	X	23	5-7	X	⊗	EAST HEADER VERT. B.F.
C437	X	12	25-8			EAST HEADER HORIZ. E.F.

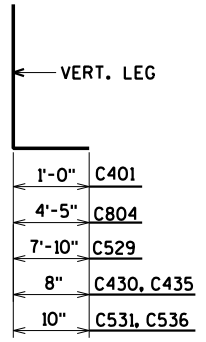
⊗ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

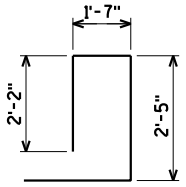
BAR SERIES TABLE

BAR MARK	NO REQ'D.	LENGTH
C705	1 SERIES OF 6	2'-11" TO 19'-3"
C407	2 SERIES OF 5	1'-3" TO 20'-11"
C812	1 SERIES OF 13	1'-3" TO 20'-11"
C414	4 SERIES OF 13	25'-10" TO 31'-4"
C430	1 SERIES OF 16	5'-1" TO 5'-5"
C531	1 SERIES OF 23	4'-7" TO 5'-7"
C435	1 SERIES OF 16	4'-7" TO 6'-11"
C536	1 SERIES OF 23	4'-1" TO 7'-1"

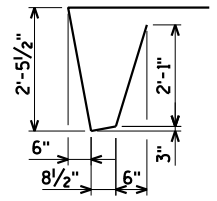


C432

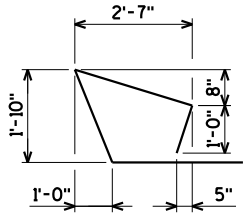




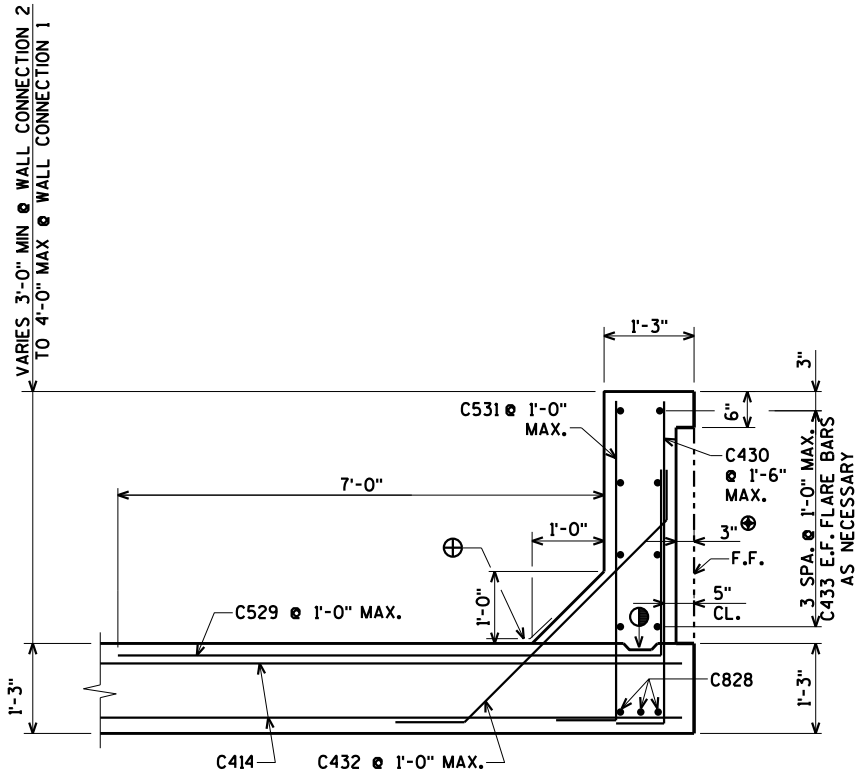
C425



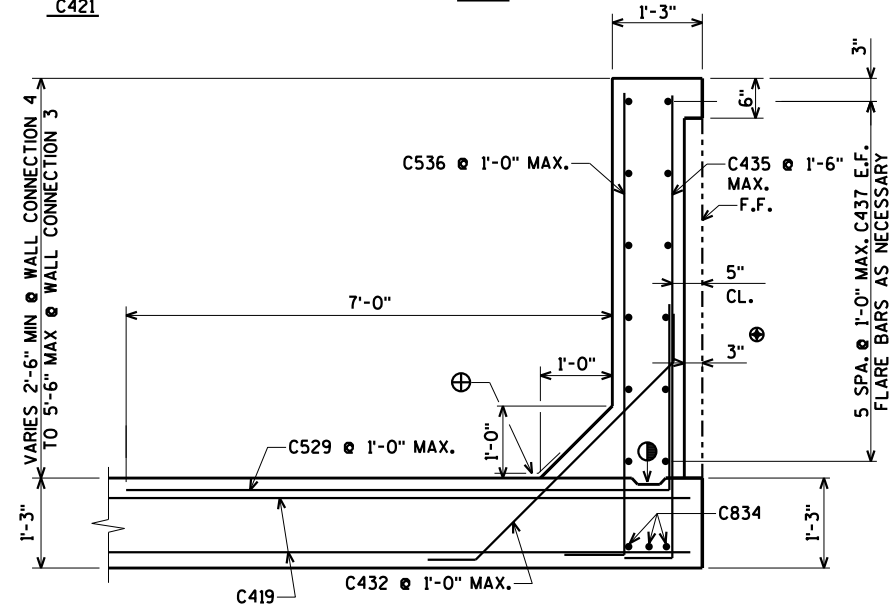
C421



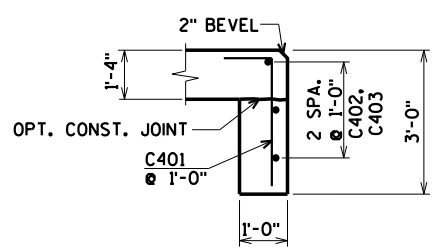
C423



SECTION A



SECTION B



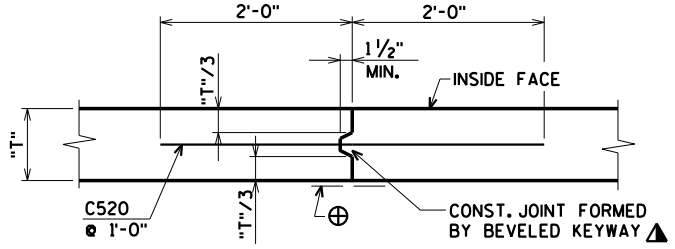
SECTION THRU CUTOFF WALLS

⊕ ARCHITECTURAL SURFACE TREATMENT. FOR DETAILS SEE SHEET 10.

◑ KEYED CONST. JOINT - FORMED BY A BEVELED 2"x6".

⚠ IN LIEU OF CONSTRUCTION JOINTS IN THE BOTTOM SLAB, THE CONTRACTOR MAY USE A 2" DEEP SAW CUT WITHIN 12 HOURS AFTER POURING. C520 BARS AT 1'-0" SPACING REQUIRED.

⊕ 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL JOINTS UP THE WALL AND ACROSS THE TOP SLAB.



VERT. CONST. JOINT
(ALL WALLS AND SLABS)

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

B.F. DENOTES BACK FACE

FOR LOCATION OF SECTION A SEE SHEET 5.

FOR LOCATION OF SECTION B SEE SHEET 8.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-870

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BILL OF BARS & DETAILS

SHEET 9 OF 12
517

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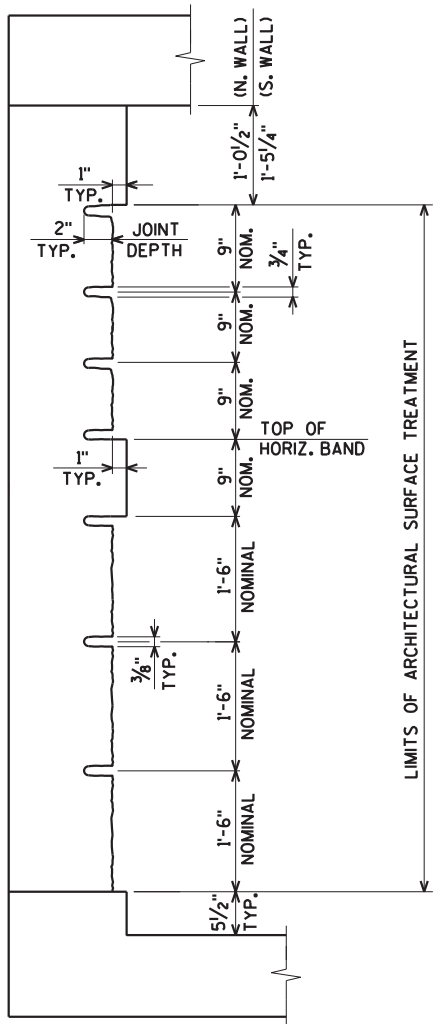
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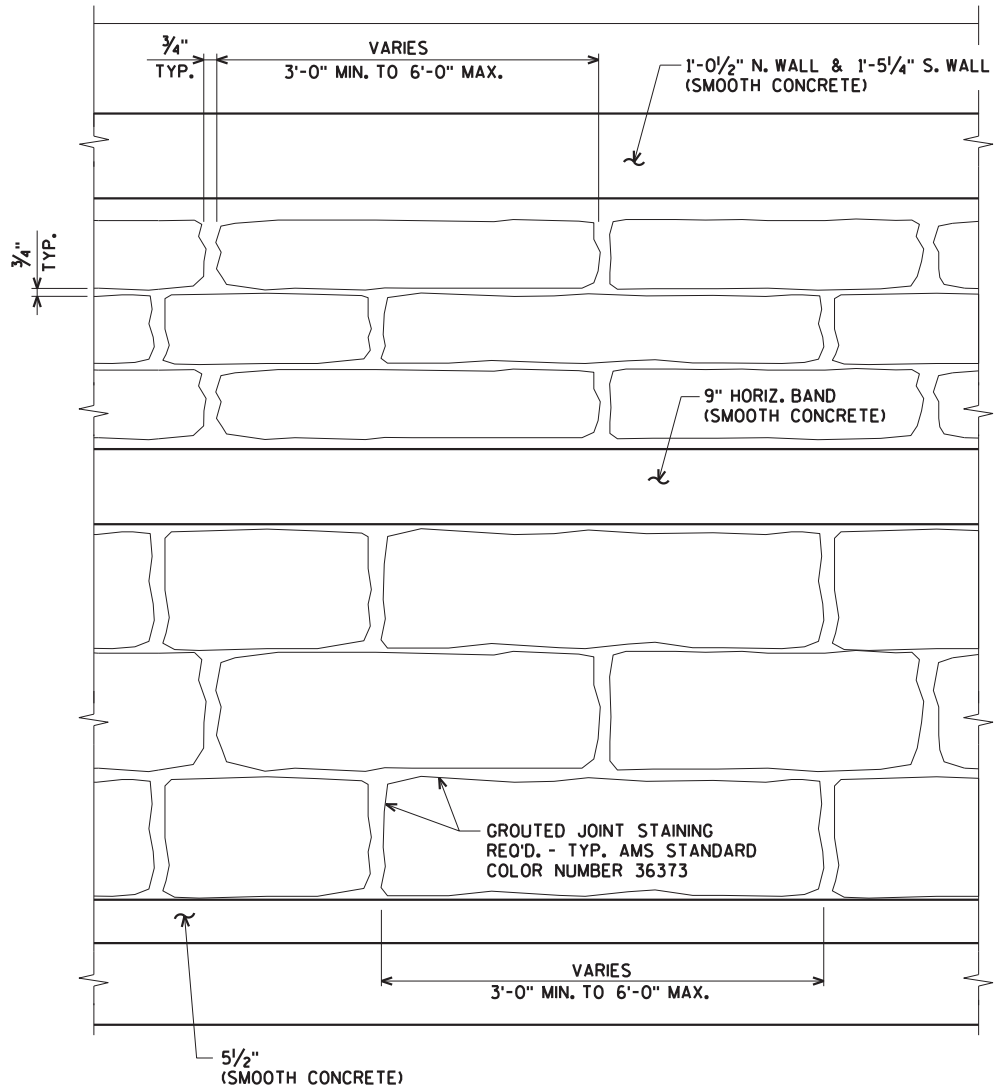
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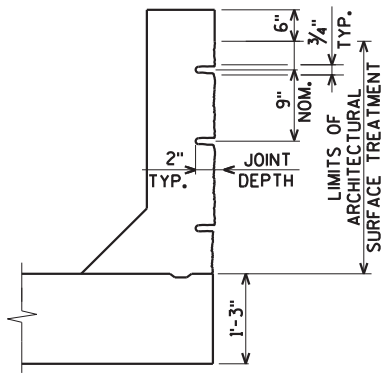
INSIDE WALL FORMLINER DETAILS

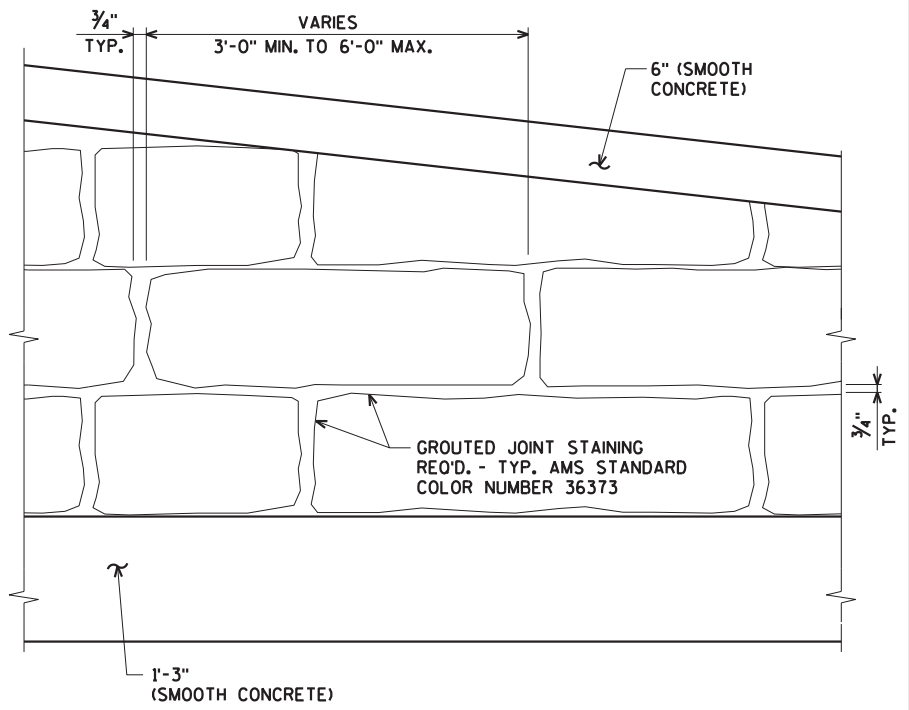
ARCHITECTURAL SURFACE TREATMENT NOTES

ALL EXPOSED SURFACES OF FORMLINED STONES TO BE SPLIT FACE INCLUDING FACES AND EDGES UNLESS OTHERWISE NOTED.

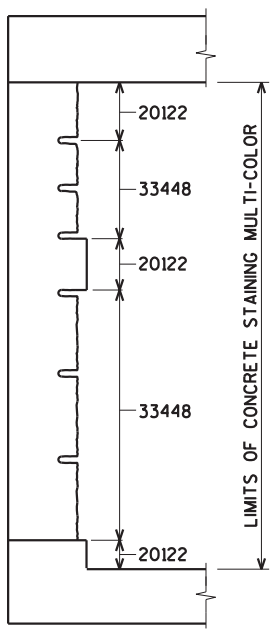
ALL STONE EDGES ADJACENT TO VERTICAL PANEL JOINTS SHALL BE FLUSH CUT. AVERAGE RELIEF IS ¾" FOR THE STONES WITH A MAX. RELIEF OF 2" FOR THE JOINTS.

FORMLINER COURSING SHALL BE LEVEL AND CONTINUOUS ACROSS VERTICAL JOINTS.



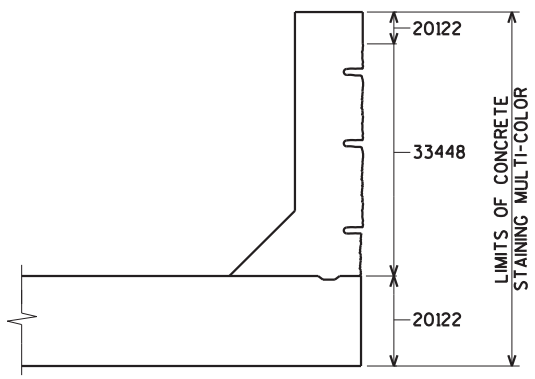


HEADER FORMLINER DETAIL



INSIDE WALL CONCRETE STAINING DETAILS

(AMS STANDARD COLOR NUMBERS SHOWN)



HEADER CONCRETE STAINING DETAILS

(AMS STANDARD COLOR NUMBERS SHOWN)

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-870

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ARCHITECTURAL SURFACE TREATMENT DETAILS

SHEET 10 OF 12

518

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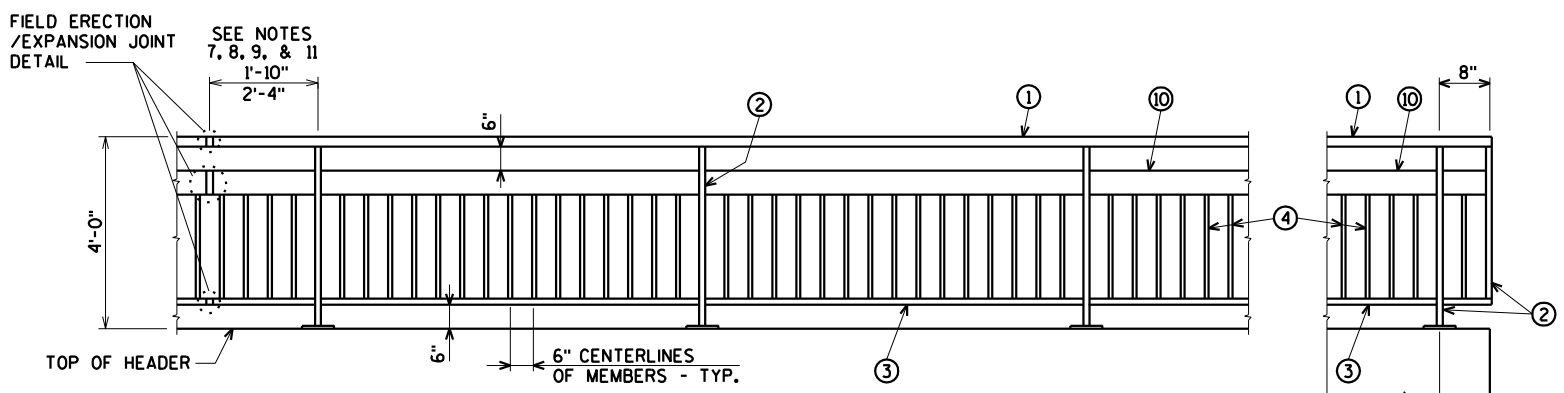
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V:\Structures-EC\41-0737.00 - Gammon Road Bike Path - Madison\Structures\Final\B-13-0870\B-13-870 details.dgn

7/2/2019

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PART ELEVATION OF RAILING STEEL

END SECTION

5 SPA. @ 5'-0" = 25'-0"
5 SPA. @ 5'-0" = 25'-0"
6"±
6"
WEST HEADER RAIL POST SPACING
EAST HEADER RAIL POST SPACING

LEGEND

(1) 2 ½" DIA. STEEL PIPE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS.

(2) TS 2" x 2" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B. CUT BOTTOM OF POST TO MATCH SLOPE OF TOP OF WALL. HOLD 1/16" ABOVE BASE PLATE TO ALLOW POST AND BASE PLATE TO BE WELDED TOGETHER. PLACE POST VERTICAL AND CENTERED ON BASE PLATE.

(3) TS 1½" x 1½" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.

(4) 1" x 1" BAR CONFORMING TO ASTM DESIGNATION A709 GRADE 36.

(5) BASE PLATE ½" x 7" x 7" CONFORMING TO ASTM DESIGNATION A709 GRADE 36 WITH 11/16" HOLES FOR HEX BOLTS NO. 6. WELD TO NO. 2 AS SHOWN.

(6) CONCRETE MASONRY ANCHORS, TYPE S, ⅝". PULLOUT STRENGTH SHALL BE 3.6 KIPS.

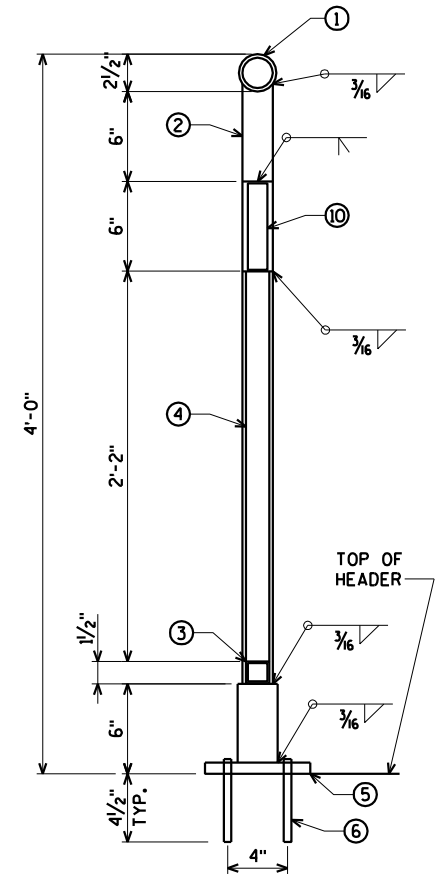
(7) SQUARE SLEEVE FABRICATED FROM ½" COLD DRAWN STEEL ALLOY SQUARE CONFORMING TO ASTM A331 x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE ½" ϕ SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 3. PROVIDE ⅜" DIA. x ½" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

(8) 1½" DIA. STEEL PIPE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE ½" DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 1. PROVIDE ⅜" DIA. x ½" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

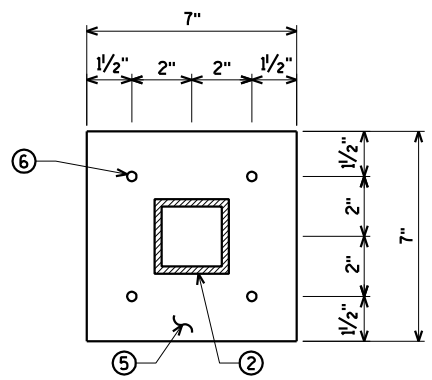
(9) 2" DIA. PIPE SLEEVE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS. PROVIDE "SLIDING FIT".

(10) TS 6" x 2" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.

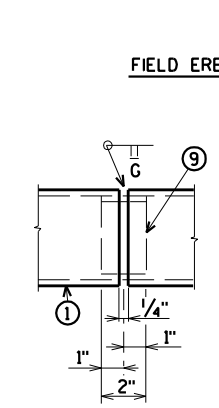
(11) 1" x 5" SLEEVE CONFORMING TO ASTM DESIGNATION A709 GRADE 36 x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE ½" DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE IN I.D. OF NO. 10. PROVIDE ⅜" x ½" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.



SECTION THRU RAILING STEEL

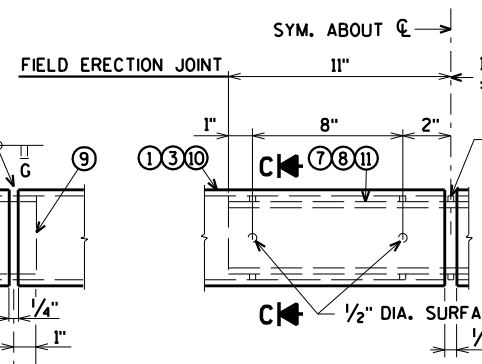


RAILING BASE PLATE



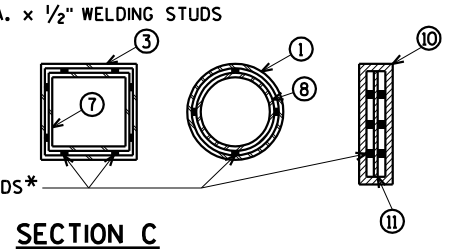
SHOP RAIL SPLICE DETAIL

(LOCATION MUST BE SHOWN ON THE SHOP DRAWINGS)



FIELD ERECTION JOINT DETAIL

*MIN. ⅝" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.



SECTION C

GENERAL NOTES

BID ITEM SHALL BE "RAILING STEEL B-13-870", WHICH INCLUDE ALL ITEMS SHOWN.

RAILING SHALL BE FABRICATED IN 2 OR 3 PANEL LENGTHS.

POST BASE PLATES NO. 5 SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

ALL MATERIAL EXCEPT ANCHOR BOLTS NO. 6 SHALL BE GALVANIZED AFTER FABRICATION.

PRIOR TO GALVANIZING ALL STEEL RAILING POSTS, STEEL TUBING, AND STEEL PIPE SHALL BE GIVEN A NO. 6 BLAST CLEANING PER S.S.P.C. SPECIFICATIONS.

VERTICAL MEMBERS SHALL BE PLUMB.

HORIZONTAL MEMBERS SHALL PARALLEL TO GRADE.

PAINT OVER GALVANIZING WITH APPROVED TIE COAT AND TOPCOAT.

RAILING TO BE PAINTED AMS STANDARD COLOR NO. 17038 (BLACK).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-870

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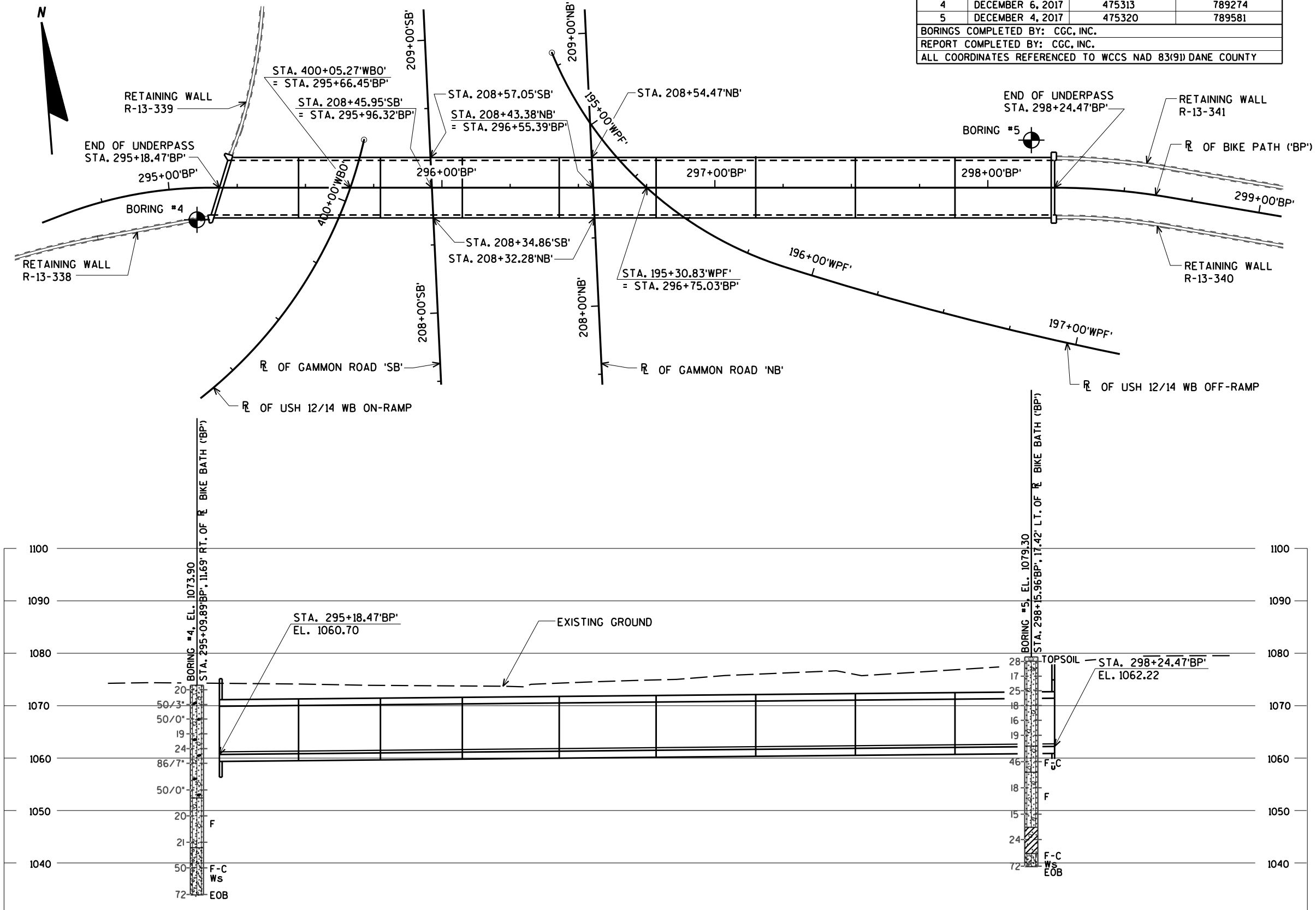
RAILING STEEL DETAILS

SHEET 11 OF 12
519

ORIGINAL PLANS PREPARED BY
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U:\41-0737.00 - Common Road Bike Path - Madison\Structures\Final\B-13-0870\B-13-870 railing.dgn

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
4	DECEMBER 6, 2017	475313	789274
5	DECEMBER 4, 2017	475320	789581
BORINGS COMPLETED BY: CGC, INC.			
REPORT COMPLETED BY: CGC, INC.			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) DANE COUNTY			



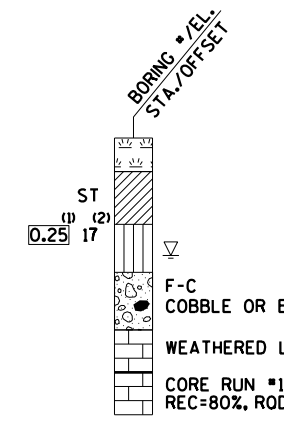
STATE PROJECT NUMBER

5992-10-31

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▼ END OF DRILLING
- ▽ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-870

DRAWN BY CLS/ZSS | PLANS CK'D. CBM

SUBSURFACE EXPLORATION

SHEET 12 OF 12

520

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8/14/2019

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U:\41-0737.00 - Common Road Bike Path - Madison\Structures\Final\B-13-0870\B-13-870 soils.dgn

$PRFNAME$
U:±41-0737.00 - Gammon Road Bike Path - Madison±Structures±Final±Retaining Walls±R-13-338 BP

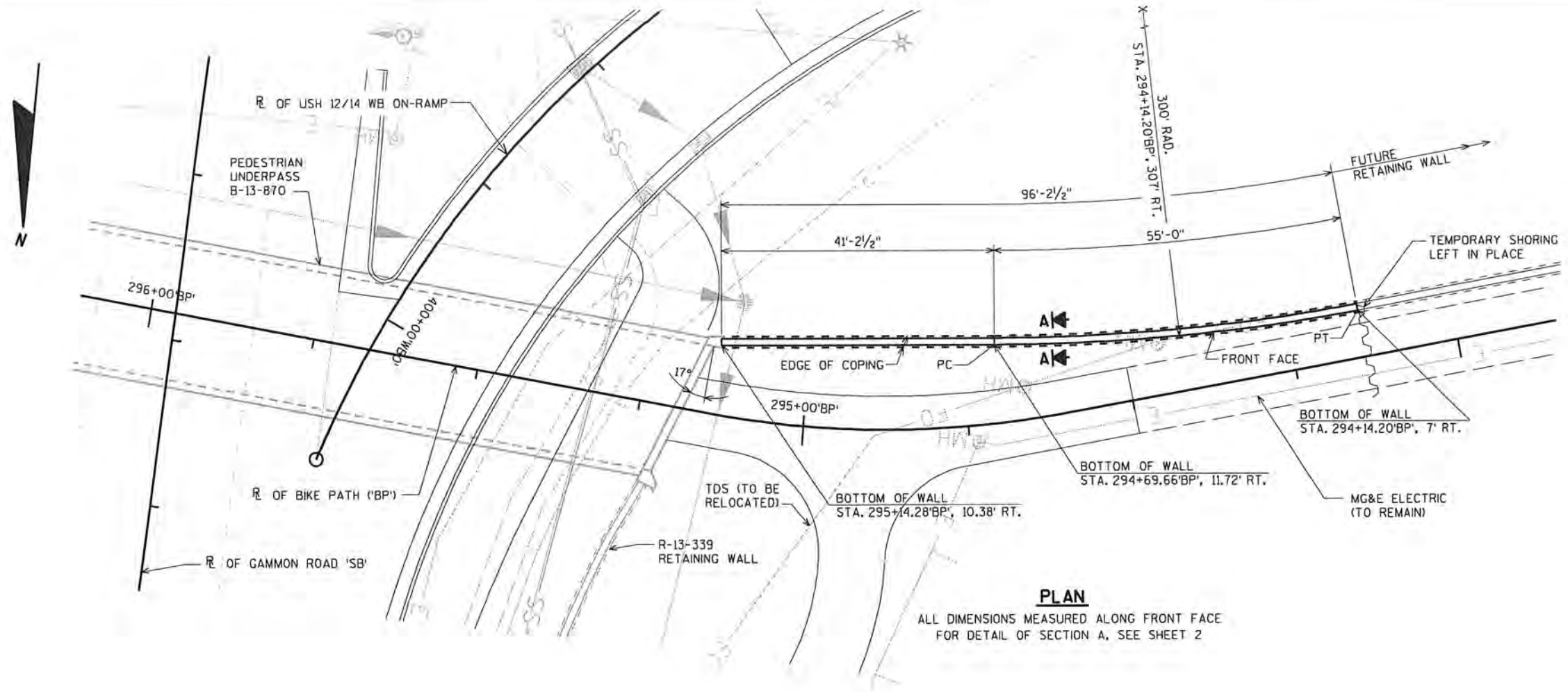
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BACK CHECKED BY:
CORRECTED BY:

STATE PROJECT NUMBER

5992-10-31

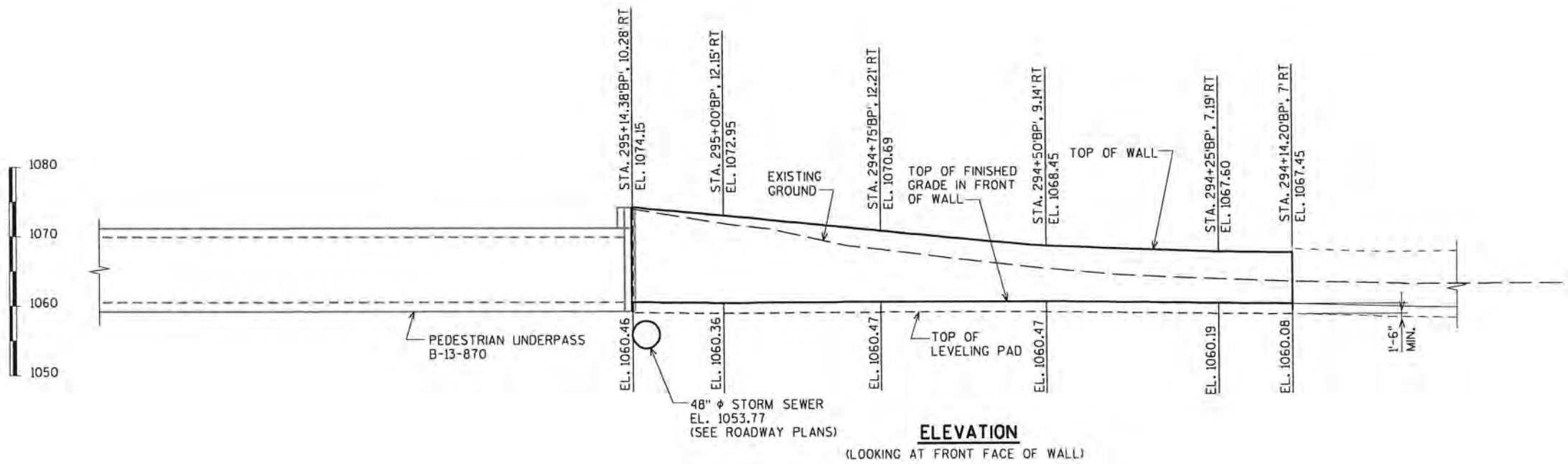
LIST OF DRAWINGS

1. RETAINING WALL LAYOUT
2. RETAINING WALL DETAILS
3. RETAINING WALL DETAILS
4. RAILING DETAILS
5. SUBSURFACE EXPLORATION



PLAN

ALL DIMENSIONS MEASURED ALONG FRONT FACE
FOR DETAIL OF SECTION A, SEE SHEET 2



ELEVATION

(LOOKING AT FRONT FACE OF WALL)

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEMS	UNIT
511.2200.01	TEMPORARY SHORING LEFT IN PLACE R-13-338	150 SF
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	100 LF
SPV.0090.650	RAILING STEEL R-13-338	96 LF
SPV.0165.652	WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH R-13-338	1,075 SF

GEOMETRY TABLE

WALL STATION	ROADWAY STATION	OFFSET TO F.F. WALL	TOP OF WALL EL.	FINISHED GRADE EL.
295+14.38	295+14.38'BP'	10.28'	1074.15	1060.46
295+00.00	295+00.00'BP'	12.15'	1072.95	1060.36
294+75.00	294+75.00'BP'	12.21'	1070.69	1060.47
294+50.00	294+50.00'BP'	9.14'	1068.45	1060.47
294+25.00	294+25.00'BP'	7.19'	1067.60	1060.19
294+14.20	294+14.20'BP'	7.00'	1067.45	1060.08

FOR GENERAL NOTES AND DESIGN DATA SEE SHEET 2

BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608)-266-8489

CONSULTANT CONTACT:
KAREN WALDERA
(715)-834-3161

WISCONSIN
KAREN L. WALDERA
E-39158
TAYLOR
WI
PROFESSIONAL ENGINEER
1-29-19

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 08/29/19
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE R-13-338

RETAINING WALL ALONG BIKE PATH 'BP'

COUNTY	~~TOWN~~/CITY/~~VILLAGE~~
DANE	MADISON

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
KLW	ZSS	CLS/ZSS	KLW

RETAINING WALL LAYOUT

SHEET 521 5

I.D.

DATE:

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GENERAL NOTES

THE PLAN QUANTITY FOR THE BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

DRAWINGS SHALL NOT BE SCALED.

THE QUANTITY OF CONCRETE MASONRY, COATED REINFORCING STEEL, AND RUBBERIZED MEMBRANE WATERPROOFING FOR THE CAST-IN-PLACE COPING IS INCIDENTAL TO BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABALIZED EARTH".

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS AND DETAILS COMMON TO ANY WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE RETAINIING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON SHEET 1.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AND RAILING AS SHOWN.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 100 psf.

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY (COPING)	f'_c =	3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60)	f_y =	60,000 p.s.i.

WALL EXTERNAL & OVERALL STABILITY EVALUATION

DIMENSIONS	EVALUATED LOCATIONS
WALL HEIGHT (FEET)	15.2
EXPOSED WALL HEIGHT (FEET)	13.7
MINIMUM LENGTH OF REINFORCEMENT (FEET) ■	12.5
WALL STATION 295+14.28'BP' - 294+14.20'BP'	
BORING USED	#4
CAPACITY TO DEMAND RATIO (CDR)	
SLIDING (CDR>1.0)	1.00
ECCENTRICITY (CDR>1.0)	0.63
OVERALL STABILITY (CDR>1.0) ☆	1.19
BEARING RESISTANCE (CDR>1.0)	1.21
FACTORED BEARING RESISTANCE (psf)	3,295

SOIL PARAMETERS

STRATUM LOCATIONS AND SOIL DESCRIPTIONS	TOTAL UNIT WEIGHT (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PCF)
GRANULAR BACKFILL (REINFORCING ZONE OR BACKFILL)	120	30	0
RETAINED SOIL ⊛	120	30	0
BORING #4			
SAND W/SILT & GRAVEL, COBBLES/BOULDERS EL. 1073.90 - EL. 1052.40 ⊗	120	30	0
SAND, SOME SILT EL. 1052.40 - EL. 1042.90 ⊗	120	32	0
SAND & GRAVEL, SOME SILT BELOW EL. 1042.90 ⊗	130	36	0

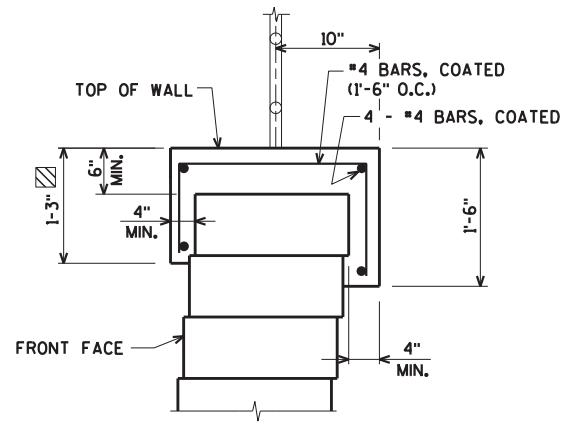
⊛ DESIGN WALL FOR THESE VALUES

NOTES

■ THE LENGTHS PROVIDED IN THE TABLE ARE THE MINIMUM REQUIRED REINFORCEMENT LENGTHS BASED UPON THE MINIMUM DESCRIBED IN THE WALL SYSTEM SPECIAL PROVISIONS OR EXTERNAL AND OVERALL STABILITY AT THE DESIGNATED LOCATIONS. THESE DESIGNATED LOCATIONS REPRESENT TYPICAL AND CRITICAL WALL LOCATIONS, BUT SHALL NOT BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR DESIGN LENGTHS SHALL MEET OR EXCEED THE MINIMUM VALUES REPRESENTED IN THE TABLE AT THESE DESIGNATED LOCATIONS.

☆ THE LENGTHS PROVIDED IN THE TABLE ARE THE MINIMUM REQUIRED REINFORCMENT LENGTHS BASED ON OVERALL STABILITY PERFORMED BY THE WALL DESIGNER. COMPOUND STABILITY IS THE CONTRACTORS RESPONSIBILITY.

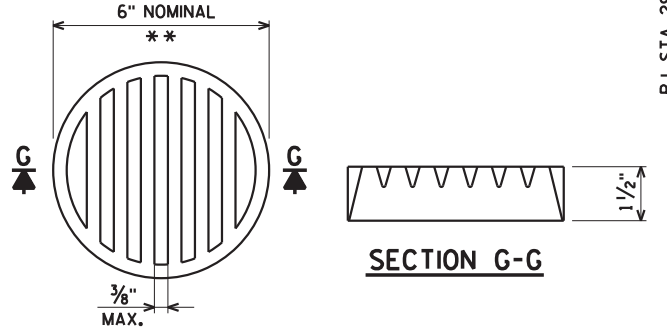
⊗ STRATUM LOCATIONS & SOIL DESCRIPTIONS AT EACH BORING LOCATION.



COPING DETAIL

▨ THIS DIMENSION MAY CHANGE DEPENDING ON HEIGHT OF BLOCKS. THIS DIMENSION TO BE CONSTANT FOR ENTIRE LENGTH OF WALL. MAXIMUM ALLOWABLE HEIGHT OF BLOCKS TO BE 9 INCHES.

MAINTAIN 2" MINIMUM COVER ON ALL REBAR.



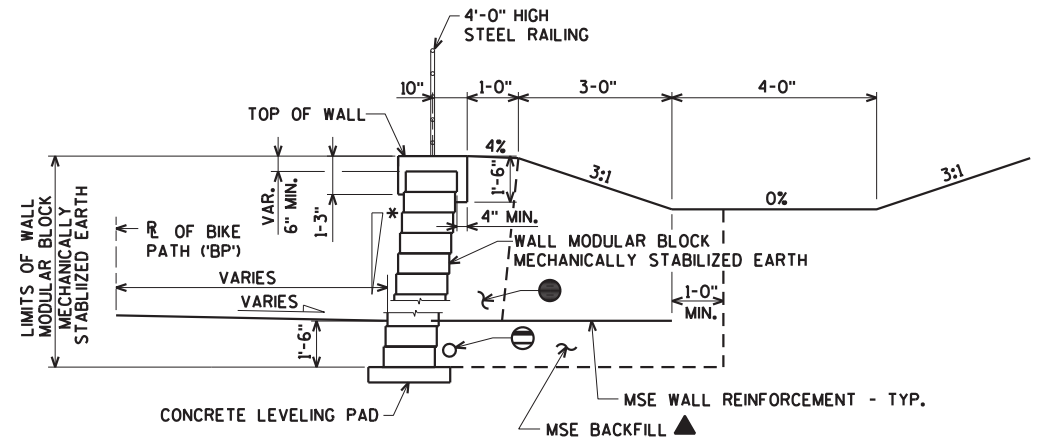
SECTION G-G

** DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 x 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

RODENT SHIELD DETAIL



SECTION A-A

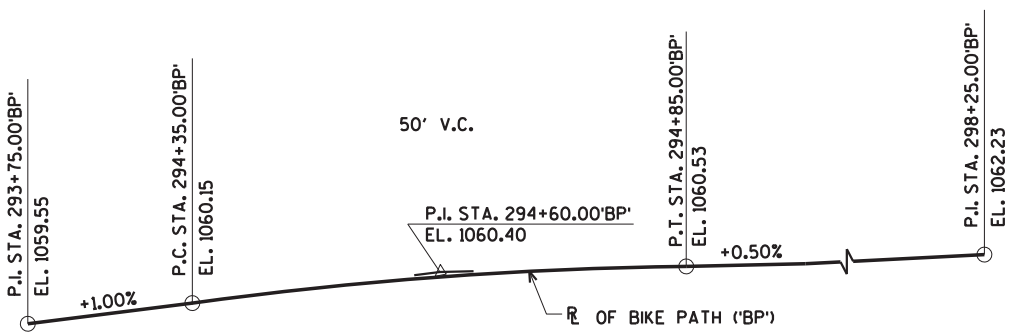
* SET BLOCK VARIES BY MANUFACTURER, MAX. FRONT FACE FROM VERTICAL BLOCK IS 1 HORIZ. TO 12 VERT.

▲ INCIDENTAL TO BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH".

● WALL BACKFILL, COURSE AGGREGATE NO. 1 BACK FACE WALL (1'-0" MIN.) WITHIN WALL REINFORCING ZONE ▲.

⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON THIS SHEET.

FOR LOCATION OF SECTION A, SEE SHEET 1



PROFILE GRADE LINE
(BIKE PATH 'BP')

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-338

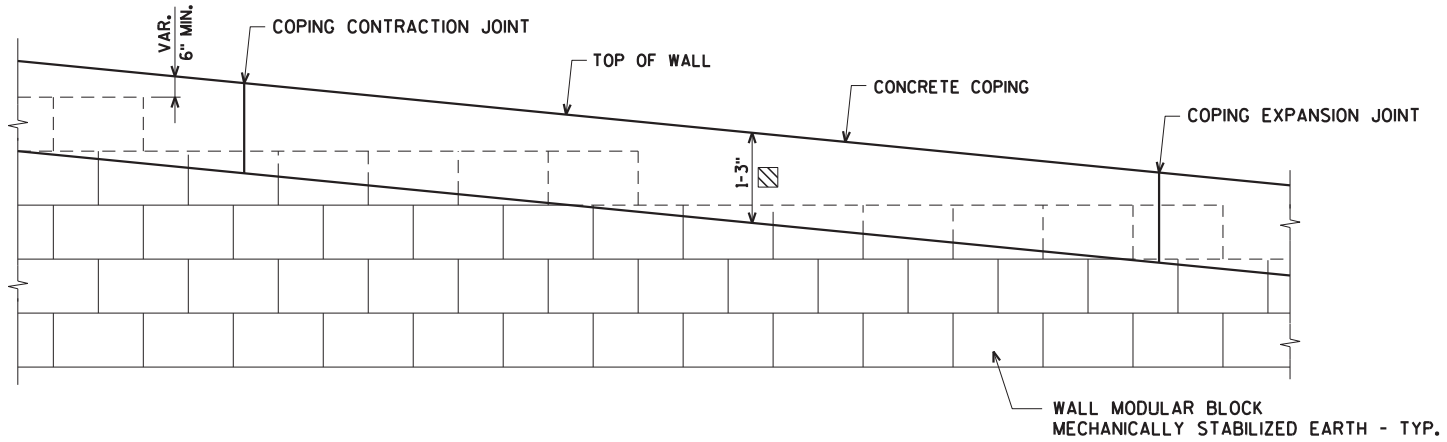
DRAWN BY CLS/ZSS | PLANS CK'D. KLW

RETAINING WALL DETAILS

SHEET 2 OF 5
522

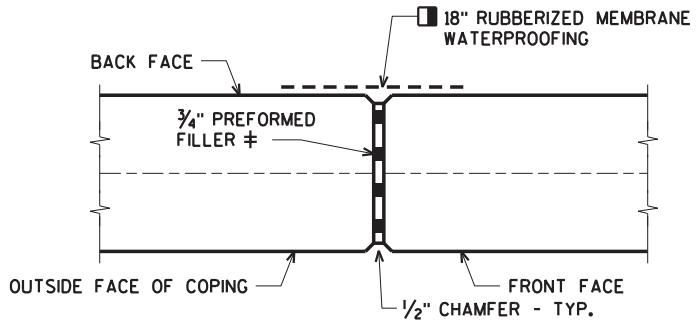
ORIGINAL PLANS PREPARED BY
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RETAINING WALL FACE & CONCRETE COPING DETAIL

▨ THIS DIMENSION MAY CHANGE DEPENDING ON HEIGHT OF BLOCKS. THIS DIMENSION TO BE CONSTANT FOR ENTIRE LENGTH OF WALL. MAXIMUM ALLOWABLE HEIGHT OF BLOCKS TO BE 9 INCHES.



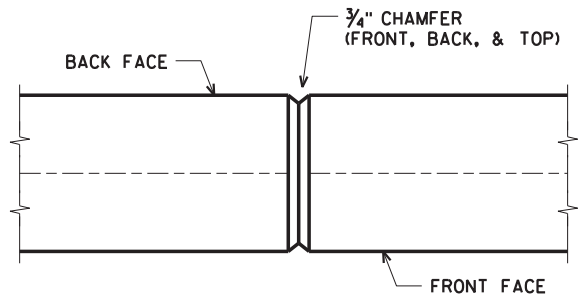
COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT
MAXIMUM SPACING OF JOINT = 50'

◨ MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS.

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)

PLACE EXPANSION JOINTS AT EVERY THIRD JOINT AND AT ALL WALL RADIUS PC/PT POINTS AND BEND POINTS.



COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT
MAXIMUM SPACING OF JOINT = 12'

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-338

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RETAINING WALL DETAILS

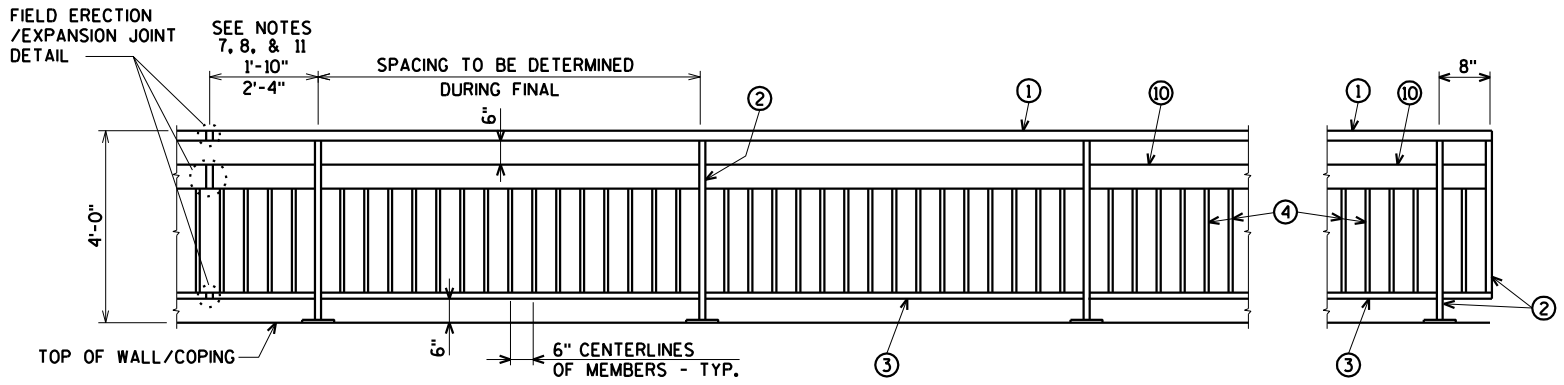
SHEET 3 OF 5
523

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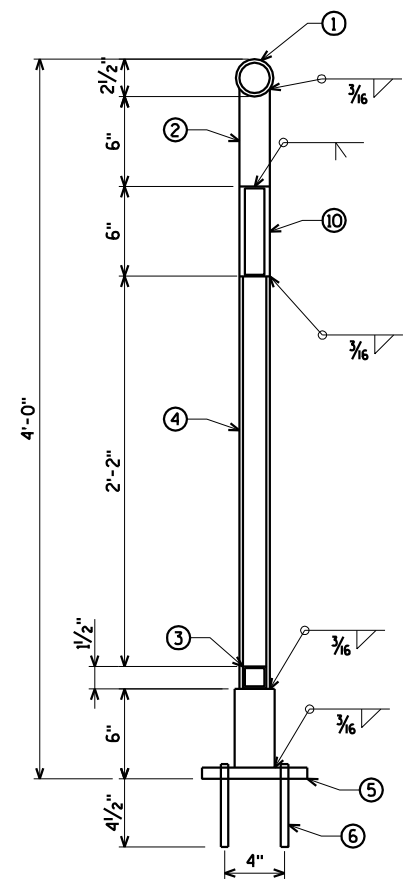
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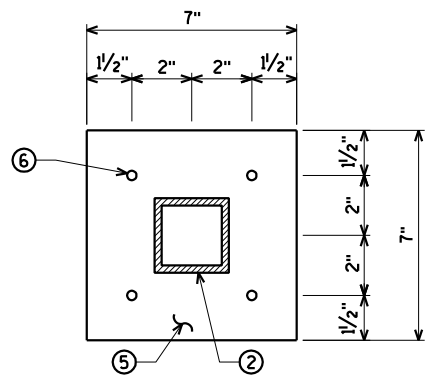


PART ELEVATION OF RAILING STEEL

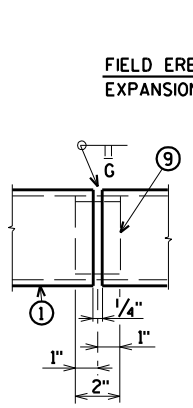
END SECTION



SECTION THRU RAILING STEEL

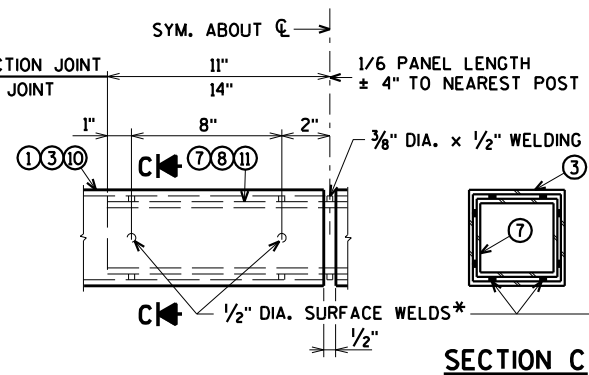


RAILING BASE PLATE



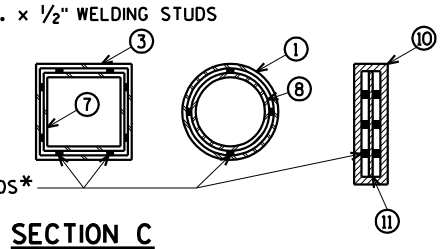
SHOP RAIL SPLICE DETAIL

(LOCATION MUST BE SHOWN ON THE SHOP DRAWINGS)



FIELD ERECTION JOINT DETAIL

*MIN. ⅝" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.



SECTION C

LEGEND

① 2 ½" DIA. STEEL PIPE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS.

② TS 2" x 2" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B. CUT BOTTOM OF POST TO MATCH SLOPE OF TOP OF WALL. HOLD 1/16" ABOVE BASE PLATE TO ALLOW POST AND BASE PLATE TO BE WELDED TOGETHER. PLACE POST VERTICAL AND CENTERED ON BASE PLATE.

③ TS 1½" x 1½" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.

④ 1" x 1" BAR CONFORMING TO ASTM DESIGNATION A709 GRADE 36.

⑤ BASE PLATE ½" x 7" x 7" CONFORMING TO ASTM DESIGNATION A709 GRADE 36 WITH 11/16" HOLES FOR HEX BOLTS NO. 6. WELD TO NO. 2 AS SHOWN.

⑥ CONCRETE MASONRY ANCHORS, TYPE S, ⅝". PULLOUT STRENGTH SHALL BE 3.6 KIPS.

⑦ SQUARE SLEEVE FABRICATED FROM ½" COLD DRAWN STEEL ALLOY SQUARE CONFORMING TO ASTM A331 x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE ½" ϕ SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 3. PROVIDE ⅜" DIA. x ½" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

⑧ 1½" DIA. STEEL PIPE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE ½" DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 1. PROVIDE ⅜" DIA. x ½" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

⑨ 2" DIA. PIPE SLEEVE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS. PROVIDE "SLIDING FIT".

⑩ TS 6" x 2" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.

⑪ 1" x 5" SLEEVE CONFORMING TO ASTM DESIGNATION A709 GRADE 36 x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE ½" DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE IN I.D. OF NO. 10. PROVIDE ⅜" x ½" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

GENERAL NOTES

BID ITEM SHALL BE "RAILING STEEL R-13-338", WHICH INCLUDE ALL ITEMS SHOWN INCLUDING GALVANIZED COATING.

RAILING SHALL BE FABRICATED IN 2 OR 3 PANEL LENGTHS.

POST BASE PLATES NO. 5 SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

ALL MATERIAL EXCEPT ANCHOR BOLTS NO. 6 SHALL BE GALVANIZED AFTER FABRICATION.

PRIOR TO GALVANIZING ALL STEEL RAILING POSTS, STEEL TUBING, AND STEEL PIPE SHALL BE GIVEN A NO. 6 BLAST CLEANING PER S.S.P.C. SPECIFICATIONS.

VERTICAL MEMBERS SHALL BE PLUMB.

HORIZONTAL MEMBERS SHALL PARALLEL TO GRADE.

PAINT OVER GALVANIZING WITH APPROVED TIE COAT AND TOPCOAT.

RAILING TO BE PAINTED FEDERAL COLOR NO. 17038 (BLACK).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-338

DRAWN BY CLS/ZSS | PLANS CK'D. KLW

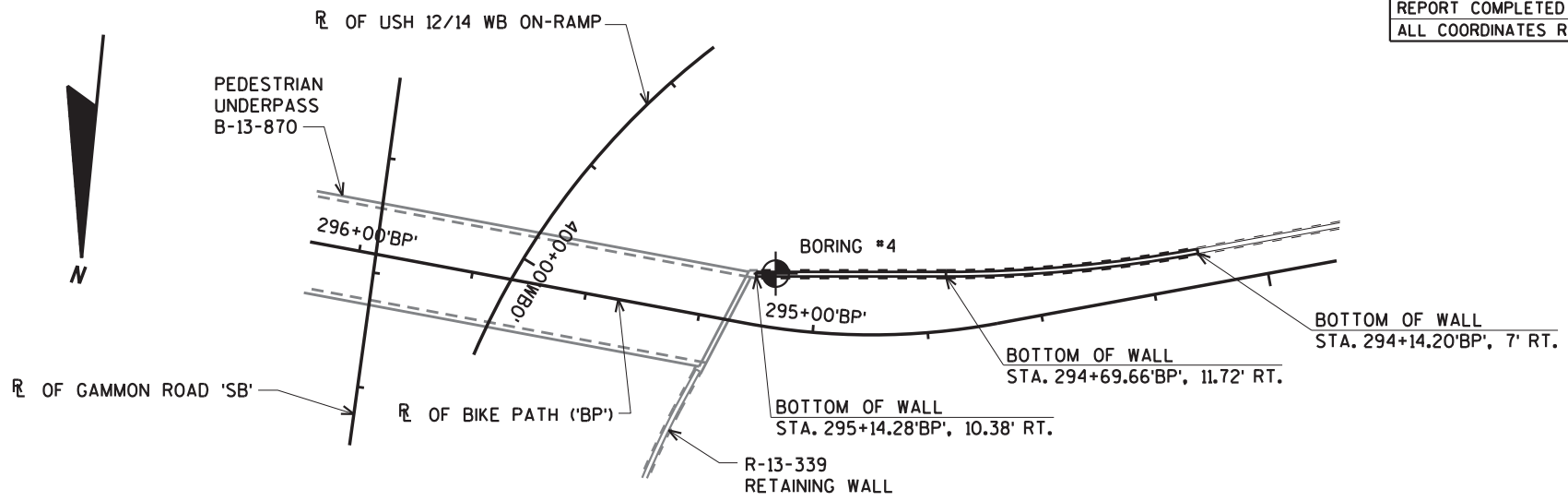
RAILING DETAILS

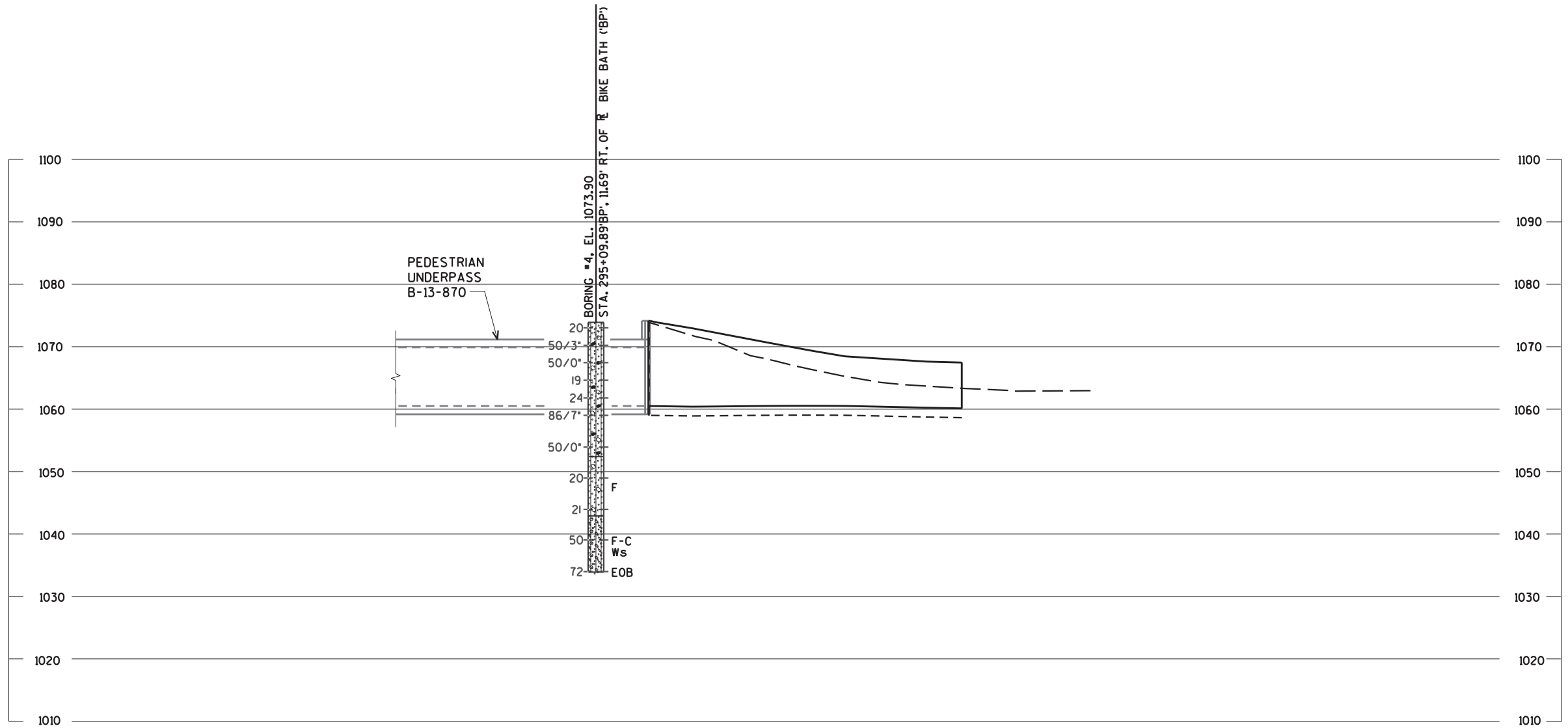
SHEET 4 OF 5
524

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
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$PRFNAME$
U:\41-0737.00 - Common Road Bike Path - Madison\Structures\Final\Retaining Walls\R-13-338 BP railing.dgn

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
4	DECEMBER 6, 2017	475313	789274
BORINGS COMPLETED BY: CGC, INC.			
REPORT COMPLETED BY: CGC, INC.			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) DANE COUNTY			





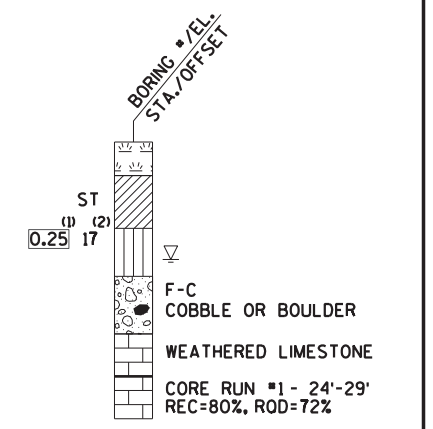
STATE PROJECT NUMBER

5992-10-31

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-338

DRAWN BY CLS/ZSS | PLANS CK'D. KLW

SUBSURFACE EXPLORATION

SHEET 5 OF 5
525

8

8

$PRFNAME$ V:\Structures-EC\41-0737.00 - Gammon Road Bike Path - Madison\Structures\Final\Retaining Walls\R-13-338 BP soils.dgn
7/3/2019
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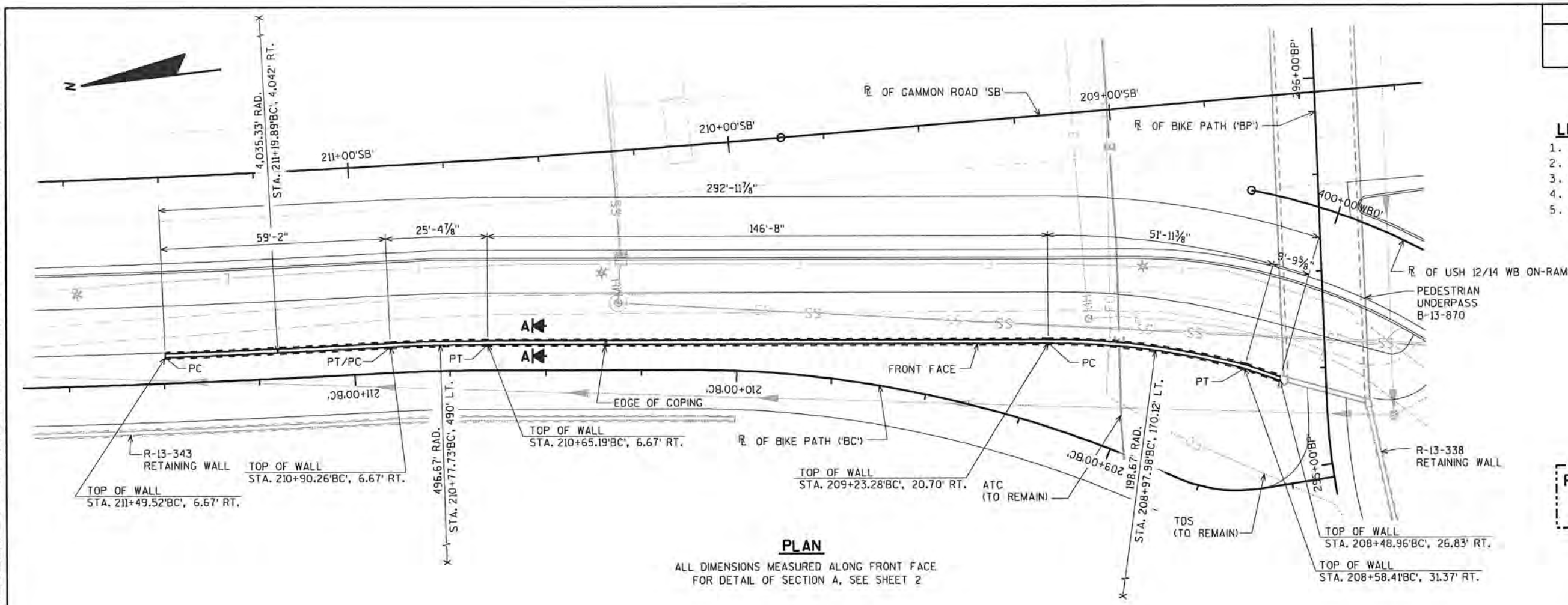
$PRFNAME$
U:±41-0737.00 - Gammon Road Bike Path - Madison±Structures±Final±Retaining Walls±R-13-339 SB

STATE PROJECT NUMBER

5992-10-32

LIST OF DRAWINGS

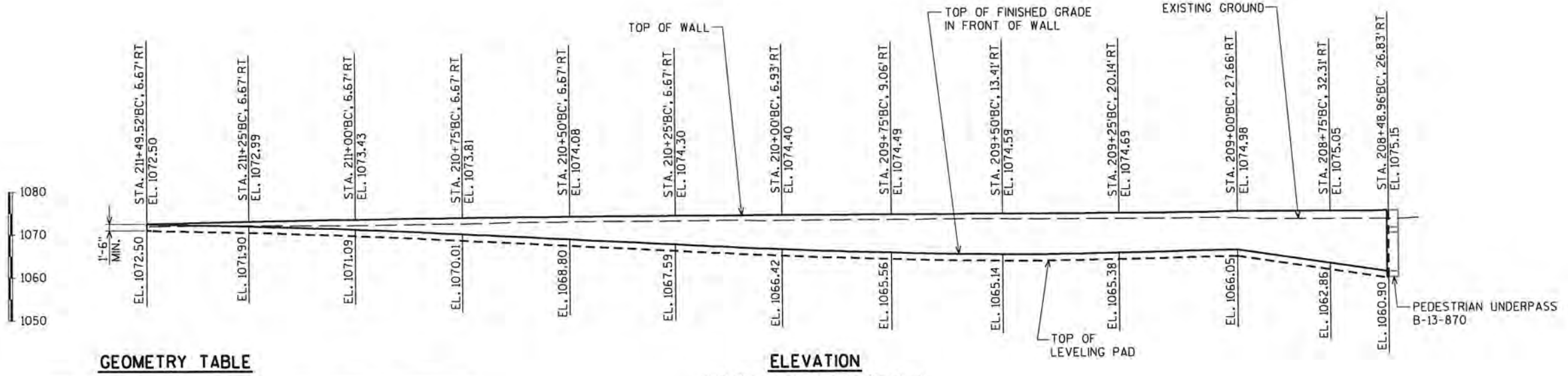
1. RETAINING WALL LAYOUT
2. RETAINING WALL DETAILS
3. RETAINING WALL DETAILS
4. RAILING DETAILS
5. SUBSURFACE EXPLORATION



PLAN

ALL DIMENSIONS MEASURED ALONG FRONT FACE
FOR DETAIL OF SECTION A, SEE SHEET 2

FOR GENERAL NOTES AND DESIGN DATA SEE SHEET 2



ELEVATION

(LOOKING AT FRONT FACE OF WALL)

GEOMETRY TABLE

WALL STATION	ROADWAY STATION	OFFSET TO F.F. WALL	TOP OF WALL EL.	FINISHED GRADE EL.
211+49.52	211+49.52'BC'	6.67'	1072.50	1072.50
211+25.00	211+25.00'BC'	6.67'	1072.99	1071.90
211+00.00	211+00.00'BC'	6.67'	1073.43	1071.09
210+75.00	210+75.00'BC'	6.67'	1073.81	1070.01
210+50.00	210+50.00'BC'	6.67'	1074.08	1068.80
210+25.00	210+25.00'BC'	6.67'	1074.30	1067.59
210+00.00	210+00.00'BC'	6.93'	1074.40	1066.42
209+75.00	209+75.00'BC'	9.06'	1074.49	1065.56
209+50.00	209+50.00'BC'	13.41'	1074.59	1065.14
209+25.00	209+25.00'BC'	20.14'	1074.69	1065.38
209+00.00	209+00.00'BC'	27.66'	1074.98	1066.05
208+75.00	208+75.00'BC'	32.31'	1075.05	1062.86
208+48.92	208+48.92'BC'	27.29'	1075.15	1060.90

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEMS	UNIT
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	295 LF
SPV.0090.651	RAILING STEEL R-13-339	293 LF
SPV.0165.653	WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH R-13-339	2,410 SF

BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608)-266-8489

CONSULTANT CONTACT:
KAREN WALDERA
(715)-834-3161

WISCONSIN
KAREN L. WALDERA
E-39158
TAYLOR
WI
PROFESSIONAL ENGINEER
7-29-19

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 08/29/19
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE R-13-339

RETAINING WALL ALONG BIKE PATH 'BC'

COUNTY DANE | ~~TOWN~~/CITY/~~VILLAGE~~ MADISON

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
KLW	ZSS	CLS/ZSS	KLW

RETAINING WALL LAYOUT

SHEET 526 5

DATE:
DATE:
DATE:

CHECKED BY:
BACK CHECKED BY:
CORRECTED BY:

8

8

GENERAL NOTES

THE PLAN QUANTITY FOR THE BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

DRAWINGS SHALL NOT BE SCALED.

THE QUANTITY OF CONCRETE MASONRY, COATED REINFORCING STEEL, AND RUBBERIZED MEMBRANE WATERPROOFING FOR THE CAST-IN-PLACE COPING IS INCIDENTAL TO BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABALIZED EARTH".

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS AND DETAILS COMMON TO ANY WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE RETAINIING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON SHEET 1.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AND RAILING AS SHOWN.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 psf.

ULTIMATE DESIGN STRESSES:

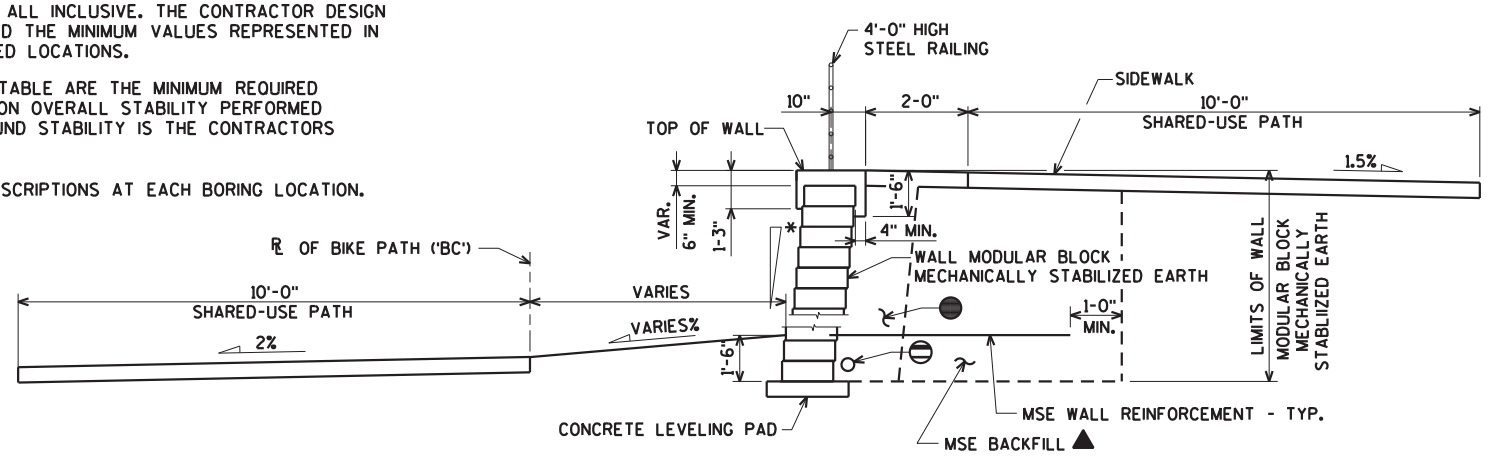
CONCRETE MASONRY (COPING) ——— f'_c= 3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60) ——— f_y= 60,000 p.s.i.

NOTES

■ THE LENGTHS PROVIDED IN THE TABLE ARE THE MINIMUM REQUIRED REINFORCEMENT LENGTHS BASED UPON THE MINIMUM DESCRIBED IN THE WALL SYSTEM SPECIAL PROVISIONS OR EXTERNAL AND OVERALL STABILITY AT THE DESIGNATED LOCATIONS. THESE DESIGNATED LOCATIONS REPRESENT TYPICAL AND CRITICAL WALL LOCATIONS, BUT SHALL NOT BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR DESIGN LENGTHS SHALL MEET OR EXCEED THE MINIMUM VALUES REPRESENTED IN THE TABLE AT THESE DESIGNATED LOCATIONS.

☆ THE LENGTHS PROVIDED IN THE TABLE ARE THE MINIMUM REQUIRED REINFORCMENT LENGTHS BASED ON OVERALL STABILITY PERFORMED BY THE WALL DESIGNER. COMPOUND STABILITY IS THE CONTRACTORS RESPONSIBILITY.

⊗ STRATUM LOCATIONS & SOIL DESCRIPTIONS AT EACH BORING LOCATION.



SECTION A-A

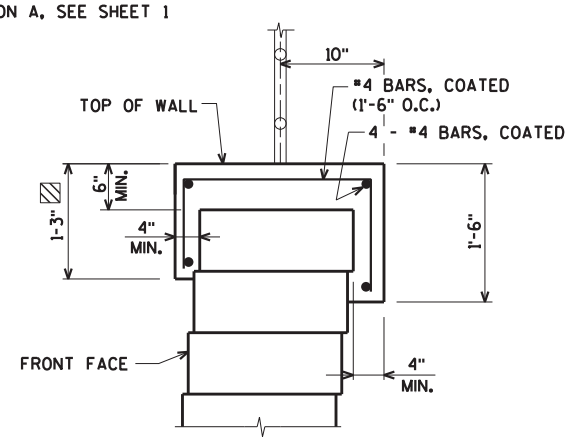
* SET BLOCK VARIES BY MANUFACTURER, MAX. FRONT FACE FROM VERTICAL BLOCK IS 1 HORIZ. TO 12 VERT.

▲ INCIDENTAL TO BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH".

● WALL BACKFILL, COURSE AGGREGATE NO. 1 BACK FACE WALL (1'-0" MIN.) WITHIN WALL REINFORCING ZONE ▲.

⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON THIS SHEET.

FOR LOCATION OF SECTION A, SEE SHEET 1



COPING DETAIL

▨ THIS DIMENSION MAY CHANGE DEPENDING ON HEIGHT OF BLOCKS. THIS DIMENSION TO BE CONSTANT FOR ENTIRE LENGTH OF WALL. MAXIMUM ALLOWABLE HEIGHT OF BLOCKS TO BE 9 INCHES.

MAINTAIN 2" MINIMUM COVER ON ALL REBAR.

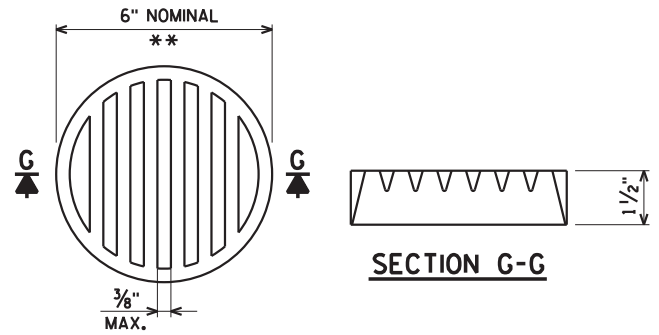
WALL EXTERNAL & OVERALL STABILITY EVALUATION

DIMENSIONS	EVALUATED LOCATIONS
WALL HEIGHT (FEET)	15.8
EXPOSED WALL HEIGHT (FEET)	14.3
MINIMUM LENGTH OF REINFORCEMENT (FEET) ■	12.5
WALL STATION 211+49.52'BC' - 208+48.92'BC'	
BORING USED	#4
CAPACITY TO DEMAND RATIO (CDR)	
SLIDING (CDR>1.0)	1.00
ECCENTRICITY (CDR>1.0)	0.63
OVERALL STABILITY (CDR>1.0) ☆	1.19
BEARING RESISTANCE (CDR>1.0)	1.21
FACTORED BEARING RESISTANCE (psf)	3,295

SOIL PARAMETERS

STRATUM LOCATIONS AND SOIL DESCRIPTIONS	TOTAL UNIT WEIGHT (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PCF)
GRANULAR BACKFILL (REINFORCING ZONE OR BACKFILL)	120	30	0
RETAINED SOIL ⊛	120	30	0
BORING #4			
SAND W/SILT & COBBLES/BOULDERS EL. 1073.90 - EL. 1052.40 ⊗	120	30	0
SAND, SOME SILT EL. 1052.40 - EL. 1042.90 ⊗	120	32	0
SAND & GRAVEL, SOME SILT BELOW EL. 1042.90 ⊗	130	36	0

⊛ DESIGN WALL FOR THESE VALUES



SECTION G-G

** DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 x 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

RODENT SHIELD DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-339

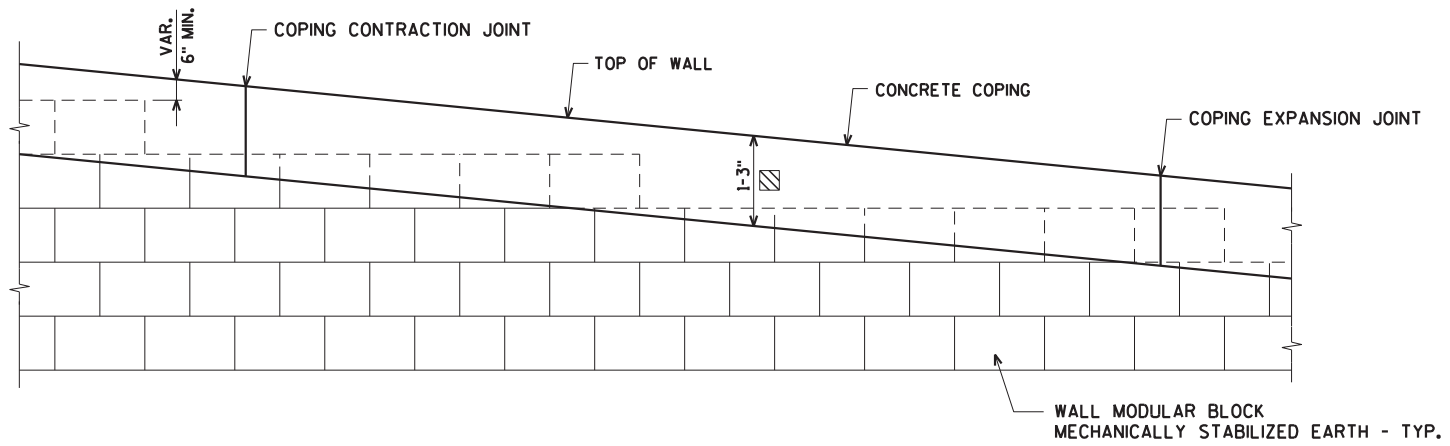
DRAWN BY CLS/ZSS | PLANS CK'D. KLW

RETAINING WALL DETAILS

SHEET 2 OF 5
527

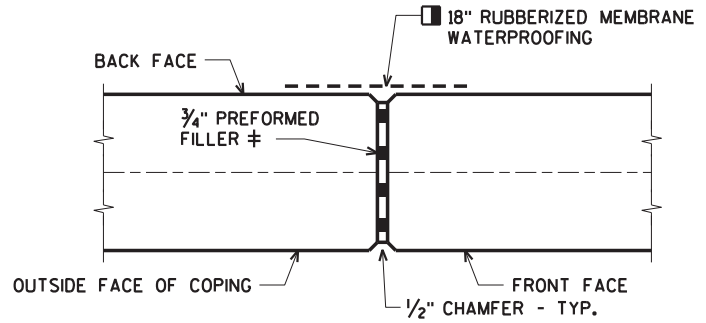
ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
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7/3/2019
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RETAINING WALL FACE & CONCRETE COPING DETAIL

▨ THIS DIMENSION MAY CHANGE DEPENDING ON HEIGHT OF BLOCKS. THIS DIMENSION TO BE CONSTANT FOR ENTIRE LENGTH OF WALL. MAXIMUM ALLOWABLE HEIGHT OF BLOCKS TO BE 9 INCHES.



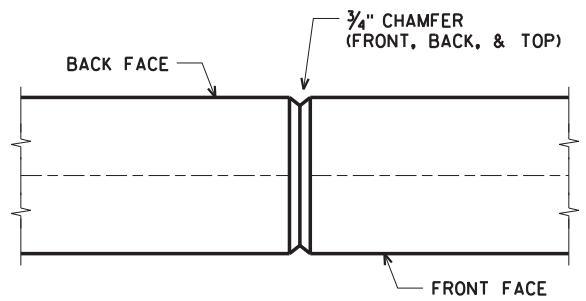
COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT
MAXIMUM SPACING OF JOINT = 50'

◨ MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS.

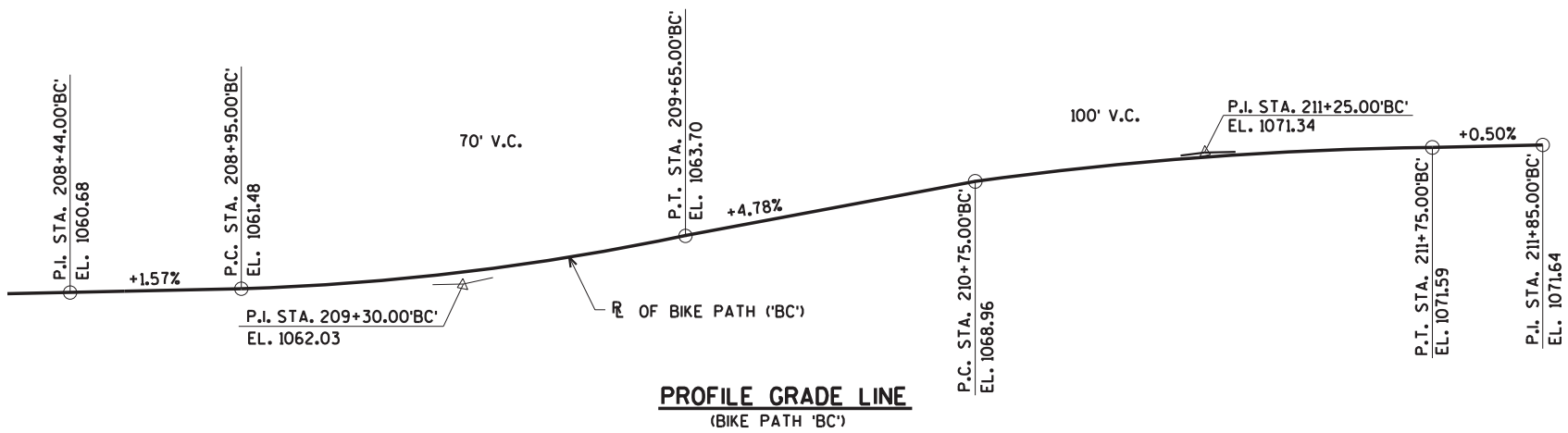
‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)

PLACE EXPANSION JOINTS AT EVERY THIRD JOINT AND AT ALL WALL RADIUS PC/PT POINTS AND BEND POINTS.



COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT
MAXIMUM SPACING OF JOINT = 12'



PROFILE GRADE LINE
(BIKE PATH 'BC')

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-339

DRAWN BY CLS/ZSS | PLANS CK'D. KLW

RETAINING WALL DETAILS

SHEET 3 OF 5
528

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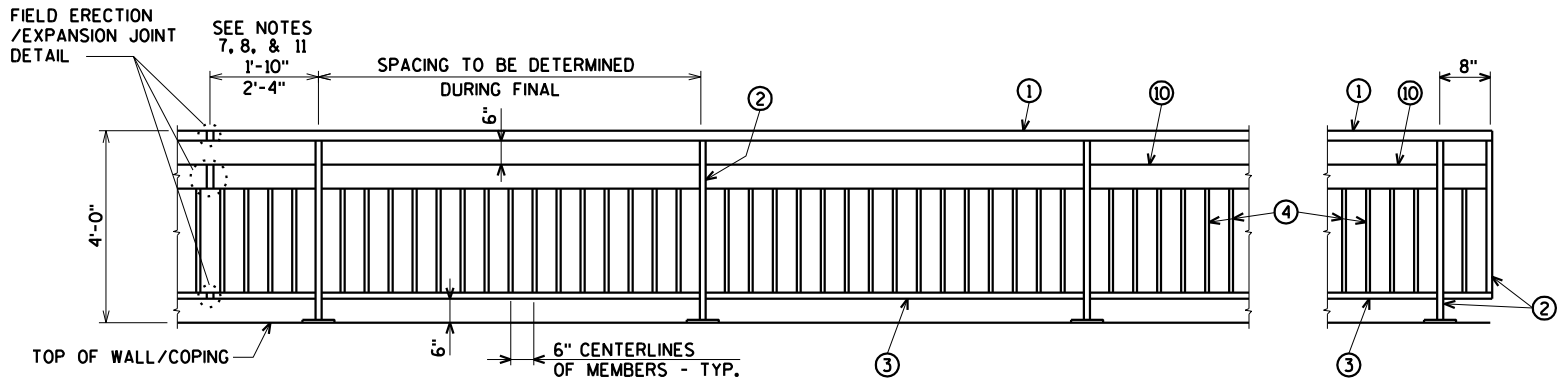
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7/3/2019

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PART ELEVATION OF RAILING STEEL

END SECTION

LEGEND

① 2 ½" DIA. STEEL PIPE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS.

② TS 2" x 2" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B. CUT BOTTOM OF POST TO MATCH SLOPE OF TOP OF WALL. HOLD 1/16" ABOVE BASE PLATE TO ALLOW POST AND BASE PLATE TO BE WELDED TOGETHER. PLACE POST VERTICAL AND CENTERED ON BASE PLATE.

③ TS 1½" x 1½" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.

④ 1" x 1" BAR CONFORMING TO ASTM DESIGNATION A709 GRADE 36.

⑤ BASE PLATE ½" x 7" x 7" CONFORMING TO ASTM DESIGNATION A709 GRADE 36 WITH 11/16" HOLES FOR HEX BOLTS NO. 6. WELD TO NO. 2 AS SHOWN.

⑥ CONCRETE MASONRY ANCHORS, TYPE S, ⅝". PULLOUT STRENGTH SHALL BE 3.6 KIPS.

⑦ SQUARE SLEEVE FABRICATED FROM ½" COLD DRAWN STEEL ALLOY SQUARE CONFORMING TO ASTM A331 x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE ½" ϕ SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 3. PROVIDE ⅜" DIA. x ½" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

⑧ 1½" DIA. STEEL PIPE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE ½" DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 1. PROVIDE ⅜" DIA. x ½" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

⑨ 2" DIA. PIPE SLEEVE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS. PROVIDE "SLIDING FIT".

⑩ TS 6" x 2" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.

⑪ 1" x 5" SLEEVE CONFORMING TO ASTM DESIGNATION A709 GRADE 36 x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE ½" DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE IN I.D. OF NO. 10. PROVIDE ⅜" x ½" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

GENERAL NOTES

BID ITEM SHALL BE "RAILING STEEL R-13-339", WHICH INCLUDE ALL ITEMS SHOWN INCLUDING GALVANIZED COATING.

RAILING SHALL BE FABRICATED IN 2 OR 3 PANEL LENGTHS.

POST BASE PLATES NO. 5 SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

ALL MATERIAL EXCEPT ANCHOR BOLTS NO. 6 SHALL BE GALVANIZED AFTER FABRICATION.

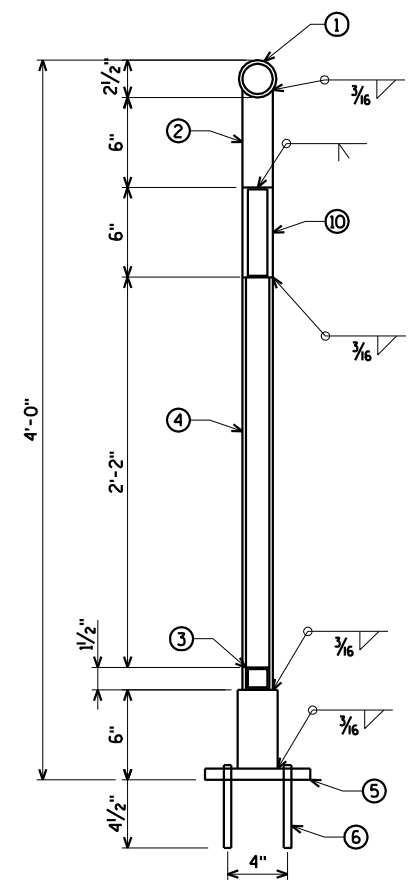
PRIOR TO GALVANIZING ALL STEEL RAILING POSTS, STEEL TUBING, AND STEEL PIPE SHALL BE GIVEN A NO. 6 BLAST CLEANING PER S.S.P.C. SPECIFICATIONS.

VERTICAL MEMBERS SHALL BE PLUMB.

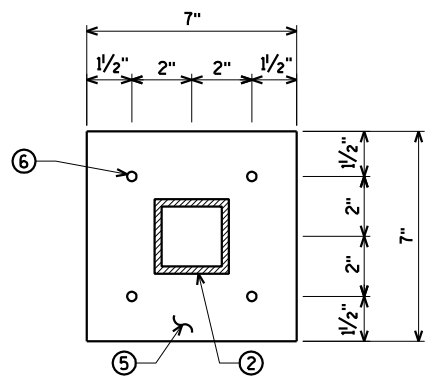
HORIZONTAL MEMBERS SHALL PARALLEL TO GRADE.

PAINT OVER GALVANIZING WITH APPROVED TIE COAT AND TOPCOAT.

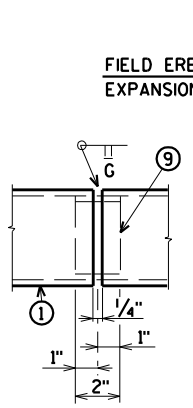
RAILING TO BE PAINTED FEDERAL COLOR NO. 17038 (BLACK).



SECTION THRU RAILING STEEL

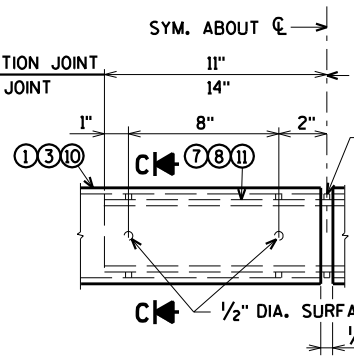


RAILING BASE PLATE



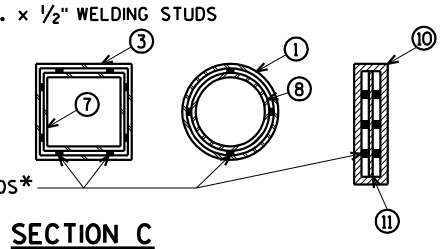
SHOP RAIL SPLICE DETAIL

(LOCATION MUST BE SHOWN ON THE SHOP DRAWINGS)



FIELD ERECTION JOINT DETAIL

*MIN. ⅝" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.



SECTION C

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-339

DRAWN BY CLS/ZSS | PLANS CK'D. KLW

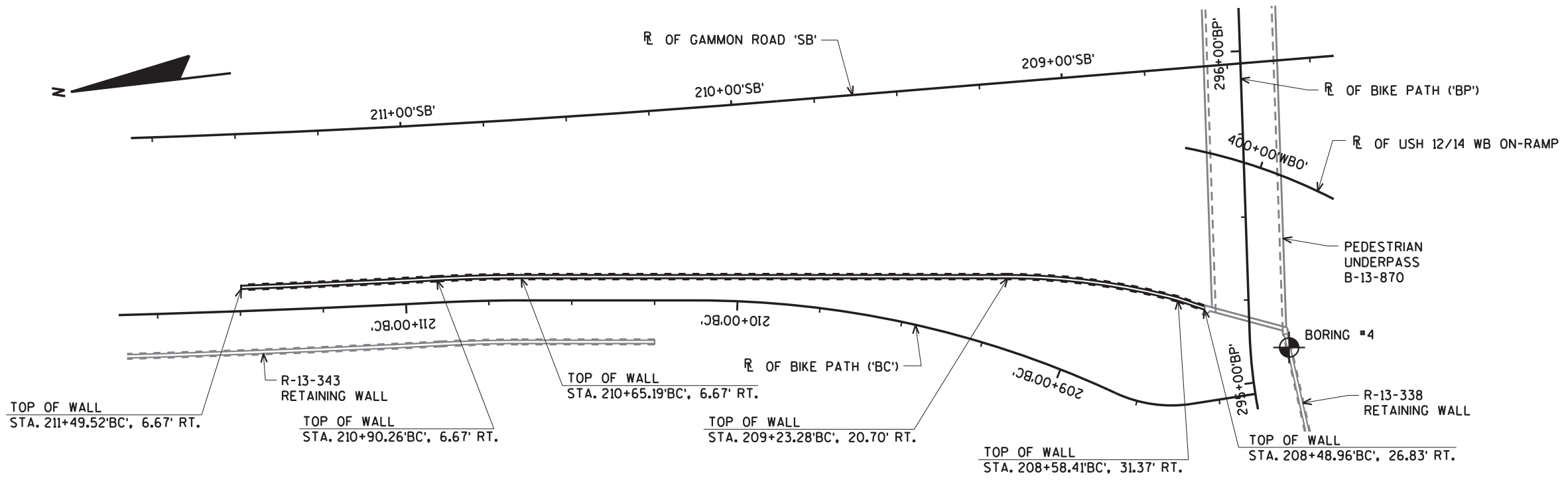
RAILING DETAILS

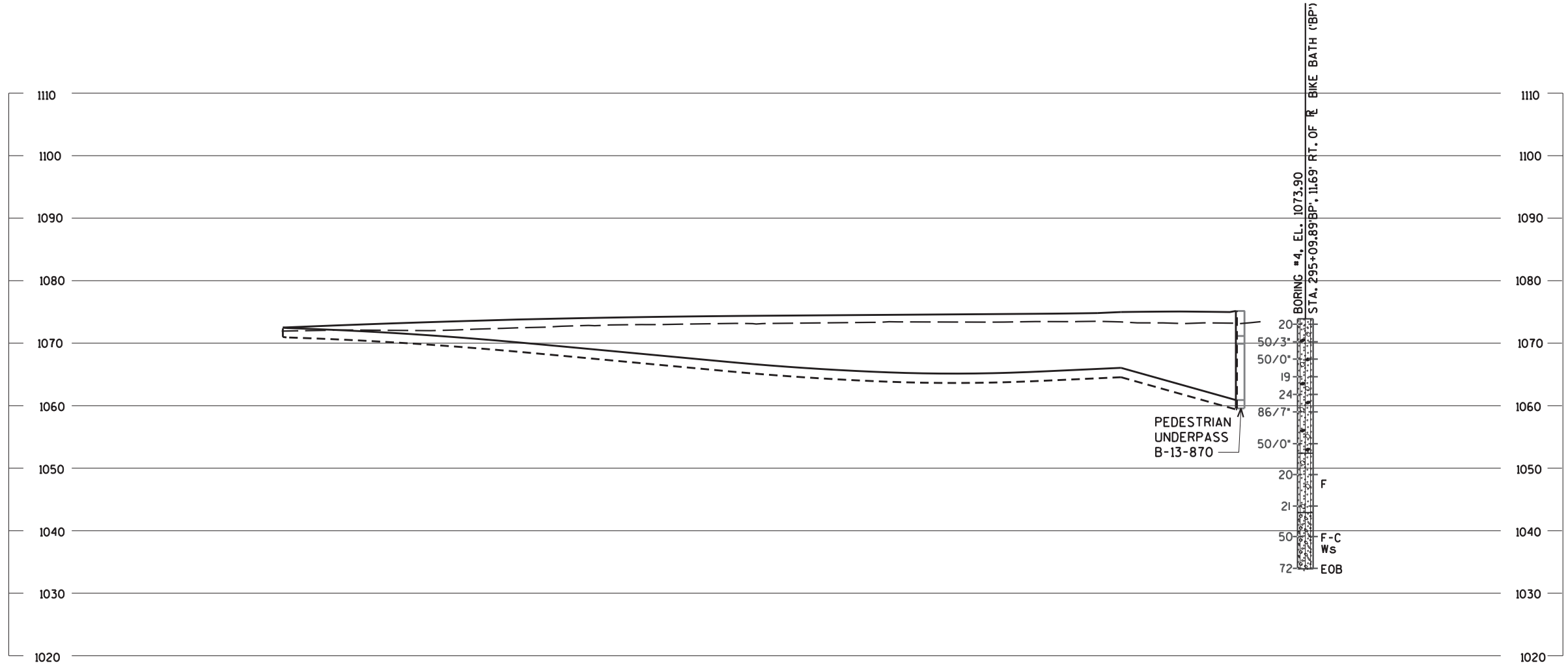
SHEET 4 OF 5
529

ORIGINAL PLANS PREPARED BY
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$PRFNAME$
U:\41-0737.00 - Common Road Bike Path - Madison\Structures\Final\Retaining Walls\R-13-339 SB railing.dgn

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
4	DECEMBER 6, 2017	475313	789274
BORINGS COMPLETED BY: CGC, INC.			
REPORT COMPLETED BY: CGC, INC.			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) DANE COUNTY			





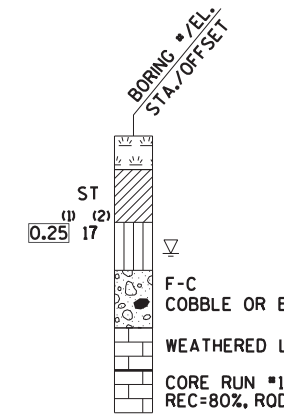
STATE PROJECT NUMBER

5992-10-32

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-339

DRAWN BY CLS/ZSS | PLANS CK'D. KLW

SUBSURFACE EXPLORATION

SHEET 5 OF 5

530

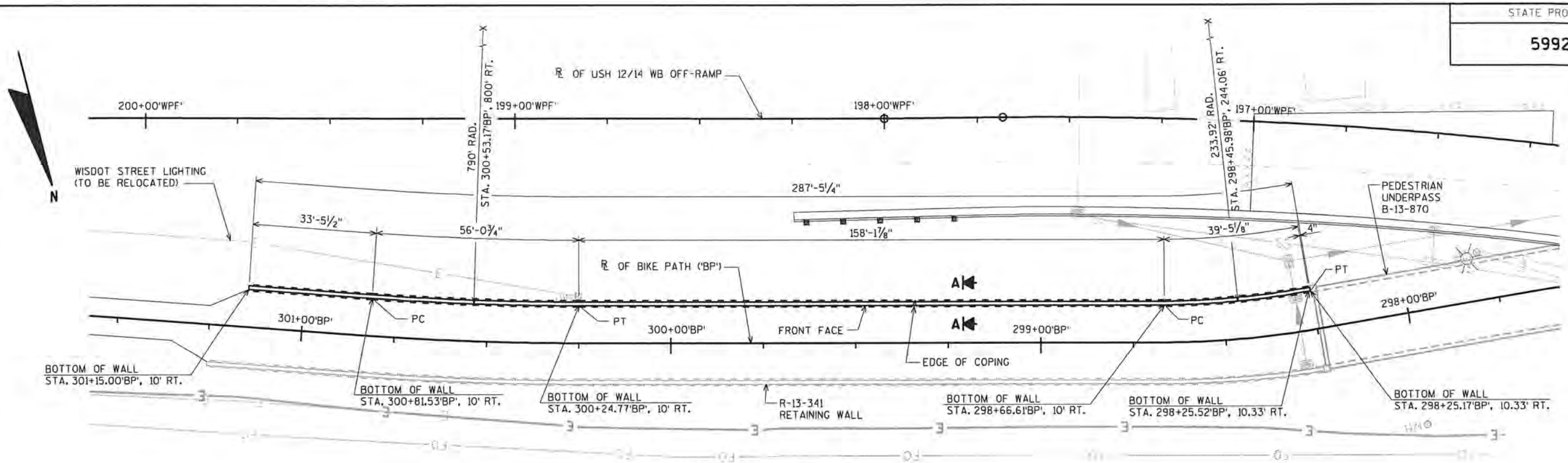
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$PRFNAME$
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7/3/2019
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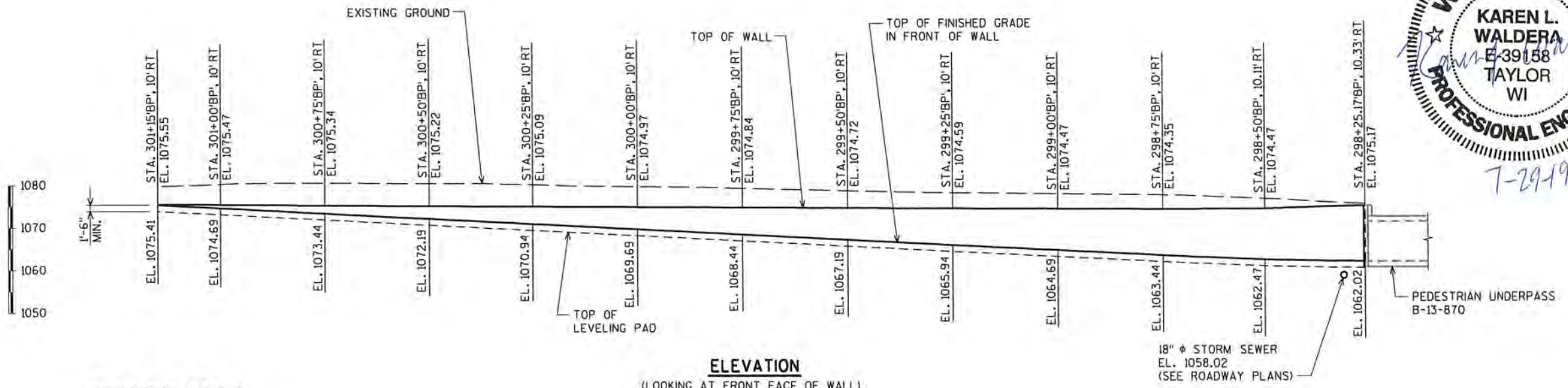
STATE PROJECT NUMBER

5992-10-31



PLAN

ALL DIMENSIONS MEASURED ALONG FRONT FACE
FOR DETAIL OF SECTION A, SEE SHEET 2



ELEVATION

(LOOKING AT FRONT FACE OF WALL)

GEOMETRY TABLE

WALL STATION	ROADWAY STATION	OFFSET TO F.F. WALL	TOP OF WALL EL.	FINISHED GRADE EL.
301+15.00	301+15.00'BP'	10'	1075.55	1075.41
301+00.00	301+00.00'BP'	10'	1075.47	1074.69
300+75.00	300+75.00'BP'	10'	1075.34	1073.44
300+50.00	300+50.00'BP'	10'	1075.22	1072.19
300+25.00	300+25.00'BP'	10'	1075.09	1070.94
300+00.00	300+00.00'BP'	10'	1074.97	1069.69
299+75.00	299+75.00'BP'	10'	1074.84	1068.44
299+50.00	299+50.00'BP'	10'	1074.72	1067.19
299+25.00	299+25.00'BP'	10'	1074.59	1065.94
299+00.00	299+00.00'BP'	10'	1074.47	1064.69
298+75.00	298+75.00'BP'	10'	1074.35	1063.44
298+50.00	298+50.00'BP'	10.11'	1074.47	1062.47
298+25.17	298+25.17'BP'	10.33'	1075.17	1062.02

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEMS	UNIT
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	290 LF
SPV.0090.652	RAILING STEEL R-13-340	288 LF
SPV.0165.654	WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH R-13-340	2,330 SF

KAREN L. WALDERA E-39158 TAYLOR WI PROFESSIONAL ENGINEER WISCONSIN

7-29-19

LIST OF DRAWINGS

1. RETAINING WALL LAYOUT
2. RETAINING WALL DETAILS
3. RETAINING WALL DETAILS
4. RAILING DETAILS
5. SUBSURFACE EXPLORATION

FOR GENERAL NOTES AND DESIGN DATA SEE SHEET 2

BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608)-266-8489

CONSULTANT CONTACT:
KAREN WALDERA
(715)-834-3161

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 08/29/19
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE R-13-340

RETAINING WALL ALONG BIKE PATH 'BP'

COUNTY	DANE	~~TOWN~~/CITY/~~VILLAGE~~	MADISON

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	KLW	DESIGN CK'D.	ZSS	DRAWN BY	CLS/ZSS	PLANS CK'D.	KLW

RETAINING WALL LAYOUT

SHEET 531 5

8

8

DATE:
DATE:
DATE:

CHECKED BY:
BACK CHECKED BY:
CORRECTED BY:

$PRFNAME$
U:±41-0737.00 - Gammon Road Bike Path - Madison±Structures±Final±Retaining Walls±R-13-340 BP

7/24/2019 PENTABLE:BReau_shd_util.tbl I.D. DATE:

GENERAL NOTES

THE PLAN QUANTITY FOR THE BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

DRAWINGS SHALL NOT BE SCALED.

THE QUANTITY OF CONCRETE MASONRY, COATED REINFORCING STEEL, AND RUBBERIZED MEMBRANE WATERPROOFING FOR THE CAST-IN-PLACE COPING IS INCIDENTAL TO BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABALIZED EARTH".

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS AND DETAILS COMMON TO ANY WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE RETAINIING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON SHEET 1.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AND RAILING AS SHOWN.

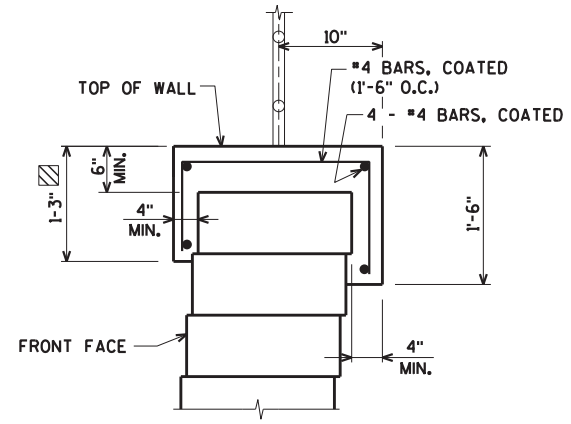
DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 100 psf.

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY (COPING) ——— f'_c = 3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60) ——— f_y = 60,000 p.s.i.

NOTES

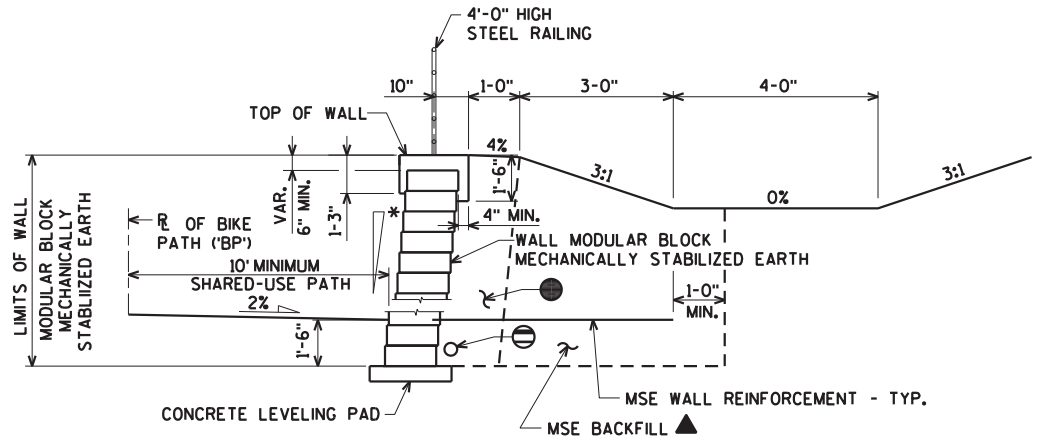
- THE LENGTHS PROVIDED IN THE TABLE ARE THE MINIMUM REQUIRED REINFORCEMENT LENGTHS BASED UPON THE MINIMUM DESCRIBED IN THE WALL SYSTEM SPECIAL PROVISIONS OR EXTERNAL AND OVERALL STABILITY AT THE DESIGNATED LOCATIONS. THESE DESIGNATED LOCATIONS REPRESENT TYPICAL AND CRITICAL WALL LOCATIONS, BUT SHALL NOT BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR DESIGN LENGTHS SHALL MEET OR EXCEED THE MINIMUM VALUES REPRESENTED IN THE TABLE AT THESE DESIGNATED LOCATIONS.
- ☆ THE LENGTHS PROVIDED IN THE TABLE ARE THE MINIMUM REQUIRED REINFORCMENT LENGTHS BASED ON OVERALL STABILITY PERFORMED BY THE WALL DESIGNER. COMPOUND STABILITY IS THE CONTRACTORS RESPONSIBILITY.
- ⊗ STRATUM LOCATIONS & SOIL DESCRIPTIONS AT EACH BORING LOCATION.



COPING DETAIL

▨ THIS DIMENSION MAY CHANGE DEPENDING ON HEIGHT OF BLOCKS. THIS DIMENSION TO BE CONSTANT FOR ENTIRE LENGTH OF WALL. MAXIMUM ALLOWABLE HEIGHT OF BLOCKS TO BE 9 INCHES.

MAINTAIN 2" MINIMUM COVER ON ALL REBAR.



SECTION A-A

* SET BLOCK VARIES BY MANUFACTURER, MAX. FRONT FACE FROM VERTICAL BLOCK IS 1 HORIZ. TO 12 VERT.

▲ INCIDENTAL TO BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH".

● WALL BACKFILL, COURSE AGGREGATE NO. 1 BACK FACE WALL (1'-0" MIN.) WITHIN WALL REINFORCING ZONE ▲.

⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 3.

FOR LOCATION OF SECTION A, SEE SHEET 1

SOIL PARAMETERS

STRATUM LOCATIONS AND SOIL DESCRIPTIONS	TOTAL UNIT WEIGHT (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PCF)
GRANULAR BACKFILL (REINFORCING ZONE OR BACKFILL)	120	30	0
RETAINED SOIL ⊛	120	30	0
BORING #11			
SAND & GRAVEL WITH COBBLES/BOULDERS ⊗ EL. 1074.60 - EL. 1064.10	120	30	0
SAND & GRAVEL, SOME SILT EL. 1064.10 - EL. 1061.60 ⊗	130	36	0
SAND & GRAVEL BELOW EL. 1061.60 ⊗	125	36	0
BORING #5			
SAND W/SILT & GRAVEL EL. 1079.30 - EL. 1062.30 ⊗	120	30	0
SAND EL. 1062.30 - EL. 1057.30 ⊗	125	34	0
SAND EL. 1057.30 - EL. 1046.80 ⊗	120	32	0
CLAY EL. 1046.80 - EL. 1041.80 ⊗	125	$0^{1}/_{26}{}^{2}$	$2,500^{1}/_{50}{}^{2}$
SAND & GRAVEL, SOME SILT BELOW EL. 1041.80 ⊗	130	36	0

⊛ DESIGN WALL FOR THESE VALUES

NOTES:
1. FOR SHORT-TERM (UNDRAINED) LOADING CONDITIONS
2. FOR LONG-TERM (DRAINED) LOADING CONDITIONS

WALL EXTERNAL & OVERALL STABILITY EVALUATION

DIMENSIONS	EVALUATED LOCATIONS	
WALL HEIGHT (FEET)	14.7	14.7
EXPOSED WALL HEIGHT (FEET)	13.2	13.2
MINIMUM LENGTH OF REINFORCEMENT (FEET) ▪	8.5	14
WALL STATION	301+00.00'BP' - 298+25.17'BP'	
BORING USED	#11	#5
CAPACITY TO DEMAND RATIO (CDR)		
SLIDING (CDR>1.0)	1.25	1.00
ECCENTRICITY (CDR>1.0)	0.44	0.67
OVERALL STABILITY (CDR>1.0) ☆	1.73	1.25
BEARING RESISTANCE (CDR>1.0)	2.32	1.04
FACTORED BEARING RESISTANCE (psf)	1,725	3,836

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-340

DRAWN BY CLS/ZSS | PLANS CK'D. KLW

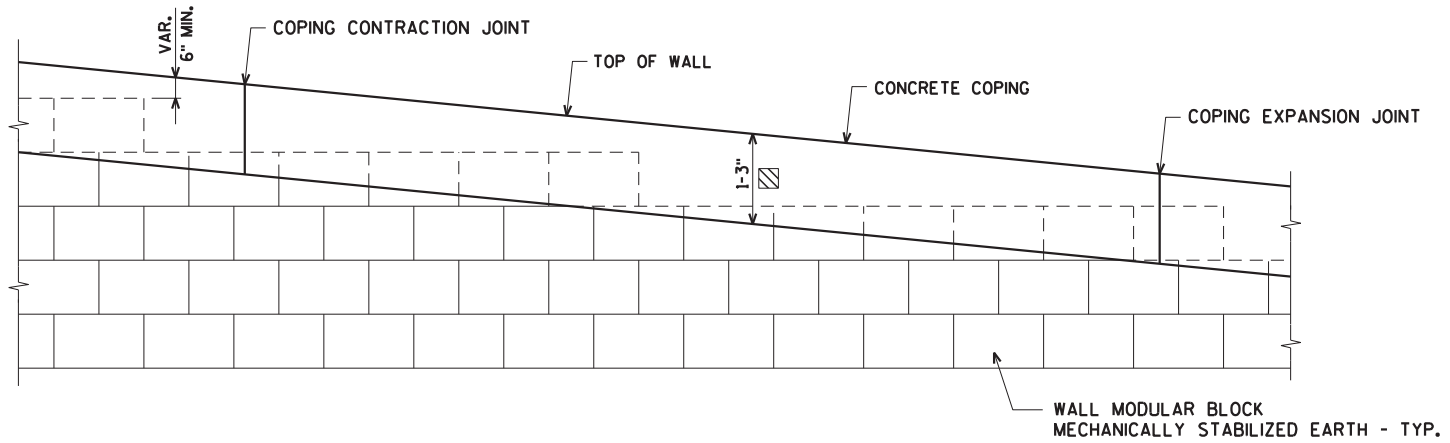
RETAINING WALL DETAILS

SHEET 2 OF 5
532

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

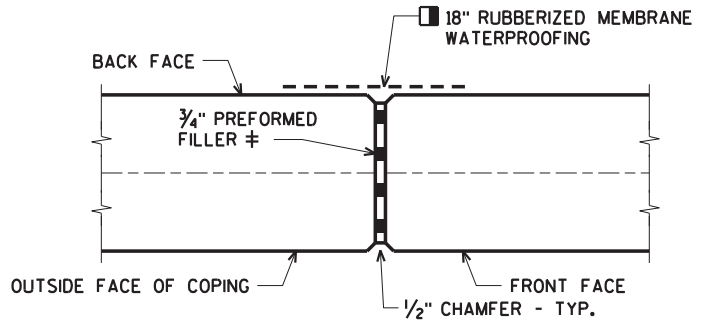
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RETAINING WALL FACE & CONCRETE COPING DETAIL

▨ THIS DIMENSION MAY CHANGE DEPENDING ON HEIGHT OF BLOCKS. THIS DIMENSION TO BE CONSTANT FOR ENTIRE LENGTH OF WALL. MAXIMUM ALLOWABLE HEIGHT OF BLOCKS TO BE 9 INCHES.



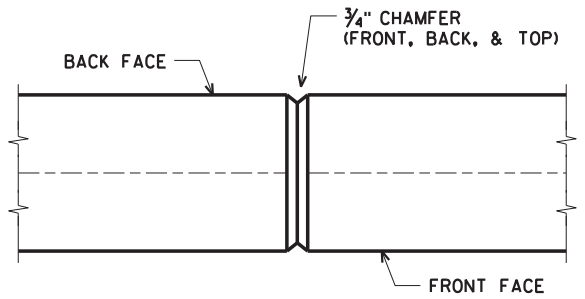
COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT
MAXIMUM SPACING OF JOINT = 50'

◨ MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS.

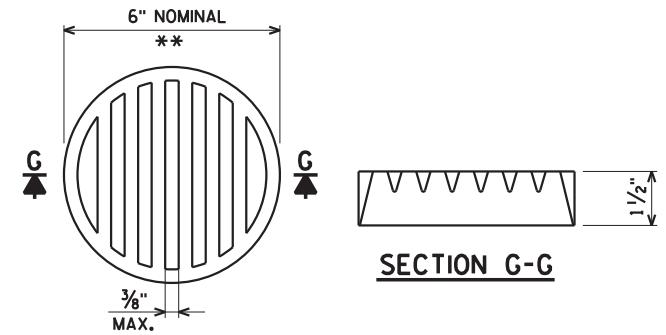
ǂ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)

PLACE EXPANSION JOINTS AT EVERY THIRD JOINT AND AT ALL WALL RADIUS PC/PT POINTS AND BEND POINTS.



COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT
MAXIMUM SPACING OF JOINT = 12'



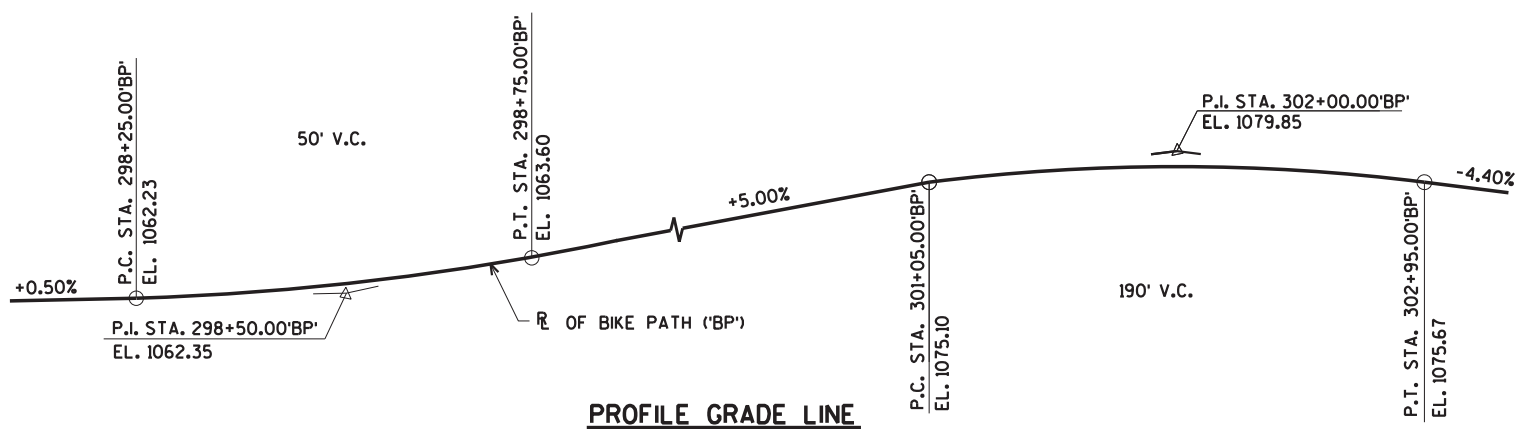
SECTION G-G

** DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 x 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

RODENT SHIELD DETAIL



PROFILE GRADE LINE
(BIKE PATH 'BP')

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

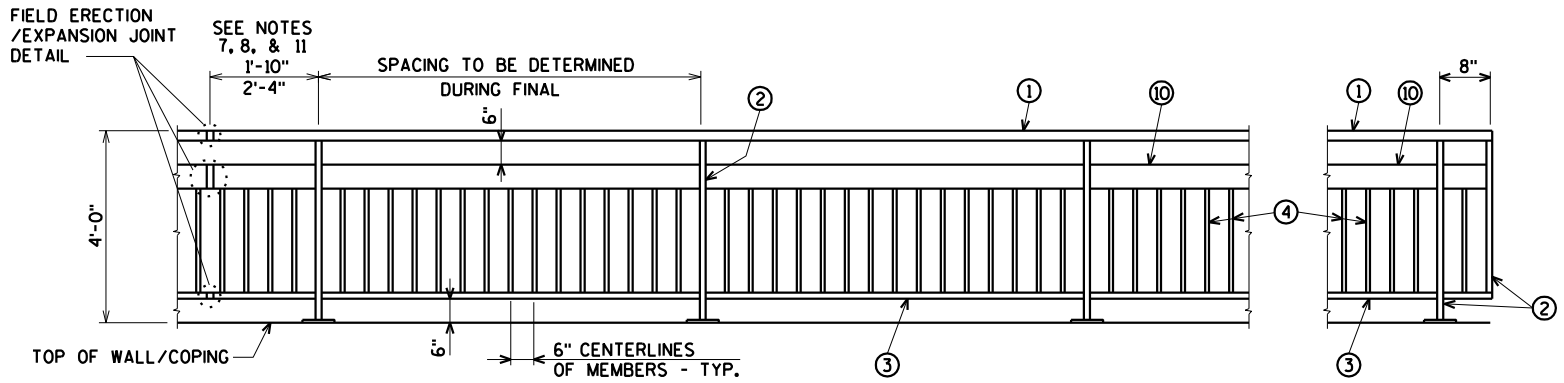
STRUCTURE R-13-340

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RETAINING WALL DETAILS

SHEET 3 OF 5
533

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
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PART ELEVATION OF RAILING STEEL

END SECTION

LEGEND

① 2 ½" DIA. STEEL PIPE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS.

② TS 2" x 2" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B. CUT BOTTOM OF POST TO MATCH SLOPE OF TOP OF WALL. HOLD 1/16" ABOVE BASE PLATE TO ALLOW POST AND BASE PLATE TO BE WELDED TOGETHER. PLACE POST VERTICAL AND CENTERED ON BASE PLATE.

③ TS 1½" x 1½" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.

④ 1" x 1" BAR CONFORMING TO ASTM DESIGNATION A709 GRADE 36.

⑤ BASE PLATE ½" x 7" x 7" CONFORMING TO ASTM DESIGNATION A709 GRADE 36 WITH 11/16" HOLES FOR HEX BOLTS NO. 6. WELD TO NO. 2 AS SHOWN.

⑥ CONCRETE MASONRY ANCHORS, TYPE S, ⅝". PULLOUT STRENGTH SHALL BE 3.6 KIPS.

⑦ SQUARE SLEEVE FABRICATED FROM ½" COLD DRAWN STEEL ALLOY SQUARE CONFORMING TO ASTM A331 x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE ½" ϕ SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 3. PROVIDE ⅜" DIA. x ½" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

⑧ 1½" DIA. STEEL PIPE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE ½" DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 1. PROVIDE ⅜" DIA. x ½" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

⑨ 2" DIA. PIPE SLEEVE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS. PROVIDE "SLIDING FIT".

⑩ TS 6" x 2" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.

⑪ 1" x 5" SLEEVE CONFORMING TO ASTM DESIGNATION A709 GRADE 36 x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE ½" DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE IN I.D. OF NO. 10. PROVIDE ⅜" x ½" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

GENERAL NOTES

BID ITEM SHALL BE "RAILING STEEL R-13-340", WHICH INCLUDE ALL ITEMS SHOWN INCLUDING GALVANIZED COATING.

RAILING SHALL BE FABRICATED IN 2 OR 3 PANEL LENGTHS.

POST BASE PLATES NO. 5 SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

ALL MATERIAL EXCEPT ANCHOR BOLTS NO. 6 SHALL BE GALVANIZED AFTER FABRICATION.

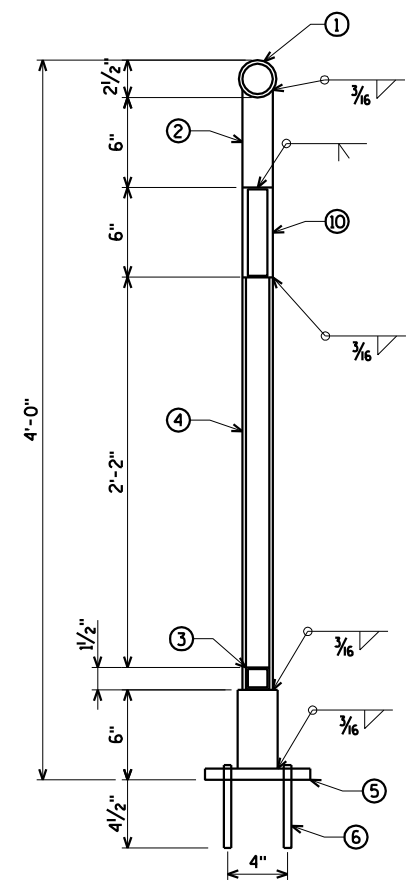
PRIOR TO GALVANIZING ALL STEEL RAILING POSTS, STEEL TUBING, AND STEEL PIPE SHALL BE GIVEN A NO. 6 BLAST CLEANING PER S.S.P.C. SPECIFICATIONS.

VERTICAL MEMBERS SHALL BE PLUMB.

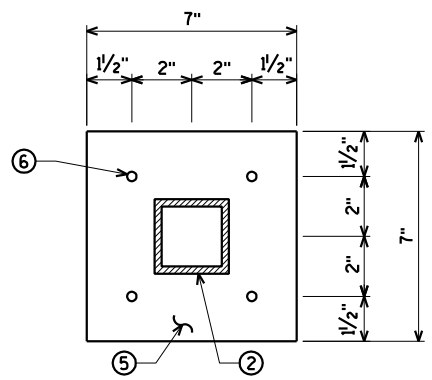
HORIZONTAL MEMBERS SHALL PARALLEL TO GRADE.

PAINT OVER GALVANIZING WITH APPROVED TIE COAT AND TOPCOAT.

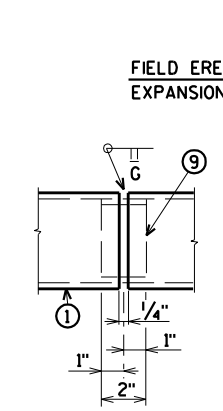
RAILING TO BE PAINTED FEDERAL COLOR NO. 17038 (BLACK).



SECTION THRU RAILING STEEL

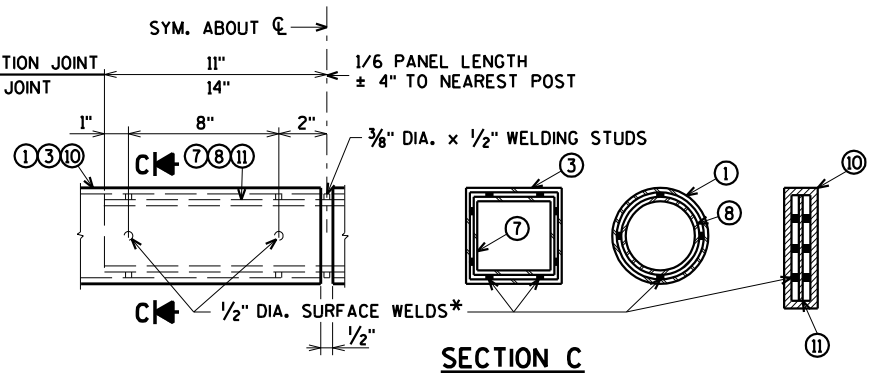


RAILING BASE PLATE



SHOP RAIL SPLICE DETAIL

(LOCATION MUST BE SHOWN ON THE SHOP DRAWINGS)



FIELD ERECTION JOINT DETAIL

*MIN. ⅝" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.

SECTION C

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-340

DRAWN BY CLS/ZSS | PLANS CK'D. KLW

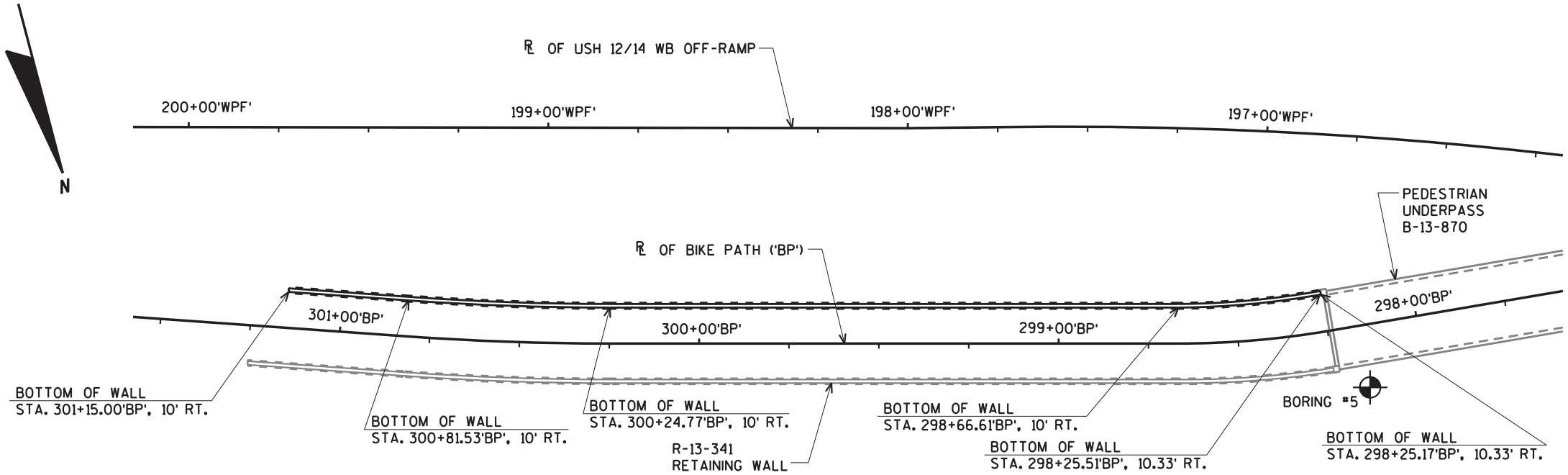
RAILING DETAILS

SHEET 4 OF 5
534

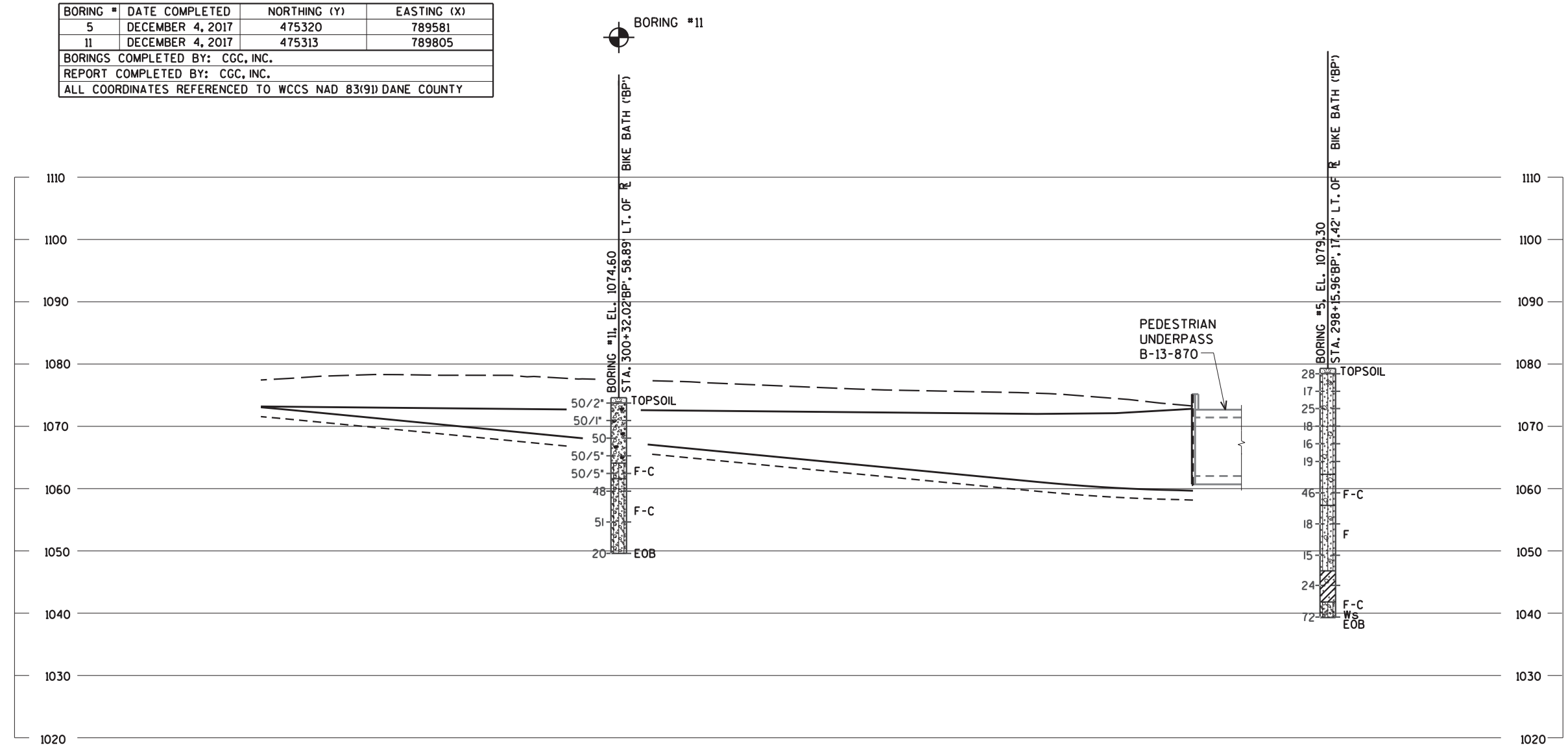
ORIGINAL PLANS PREPARED BY
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$PRFNAME$
U:\41-0737.00 - Common Road Bike Path - Madison\Structures\Final\Retaining Walls\R-13-340 BP railing.dgn

$PRFNAME$
V:\Structures-EC\41-0737.00 - Gammon Road Bike Path - Madison\Structures\Final\Retaining Walls\R-13-340 BP soils.dgn



BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
5	DECEMBER 4, 2017	475320	789581
11	DECEMBER 4, 2017	475313	789805
BORINGS COMPLETED BY: CGC, INC.			
REPORT COMPLETED BY: CGC, INC.			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) DANE COUNTY			



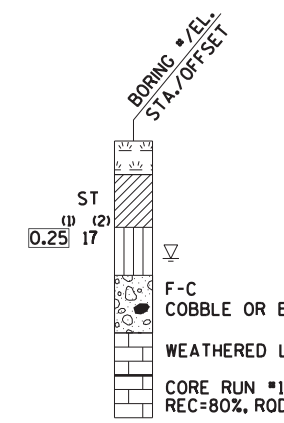
STATE PROJECT NUMBER

5992-10-31

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▼ END OF DRILLING
- ▽ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-340

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SUBSURFACE EXPLORATION

SHEET 5 OF 5
535

8

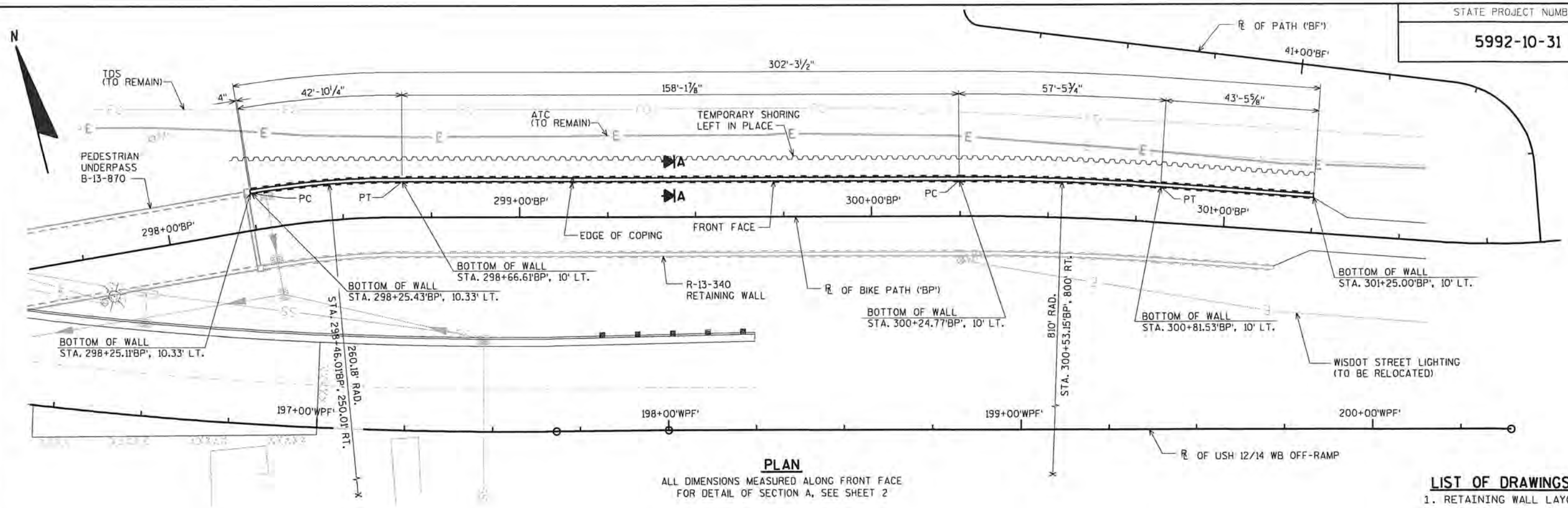
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7/3/2019
PENTABLE2BR.edu.shd.dfnl.tbl

$PRFNAME$
U:\41-0737.00 - Gammon Road Bike Path - Madison\Structures\Final\Retaining Walls\R-13-341.BP
DATE:
DRAWN BY:
DATE:
CHECKED BY:
DATE:
BACK CHECKED BY:
CORRECTED BY:

STATE PROJECT NUMBER

5992-10-31

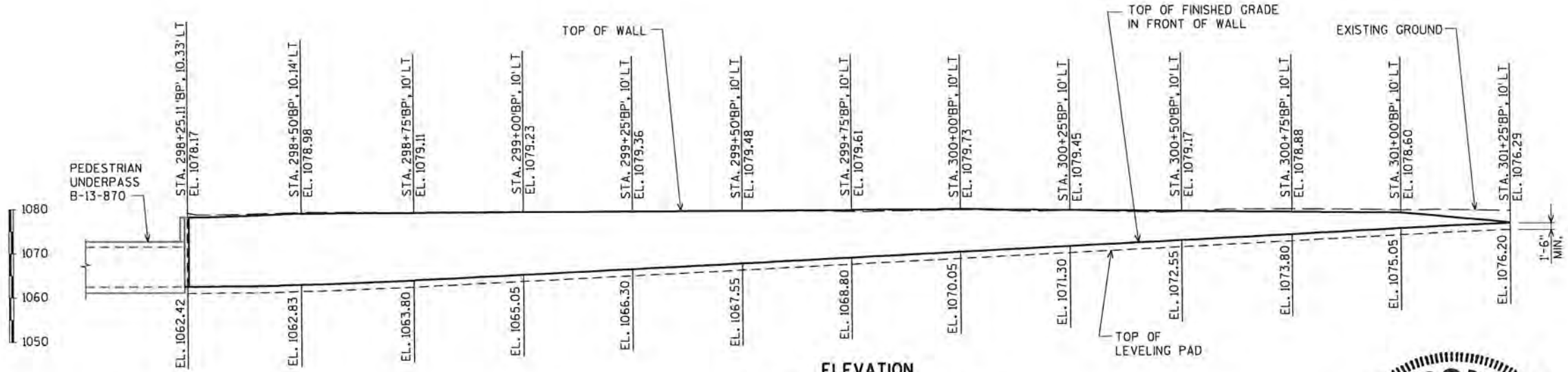


PLAN

ALL DIMENSIONS MEASURED ALONG FRONT FACE
FOR DETAIL OF SECTION A, SEE SHEET 2

LIST OF DRAWINGS

1. RETAINING WALL LAYOUT
2. RETAINING WALL DETAILS
3. RETAINING WALL DETAILS
4. RAILING DETAILS
5. SUBSURFACE EXPLORATION



ELEVATION

(LOOKING AT FRONT FACE OF WALL)

FOR GENERAL NOTES AND DESIGN DATA SEE SHEET 2

GEOMETRY TABLE

WALL STATION	ROADWAY STATION	OFFSET TO F.F. WALL	TOP OF WALL EL.	FINISHED GRADE EL.
298+25.11	298+25.11'BP'	10.33'	1078.17	1062.42
298+50.00	298+50.00'BP'	10.14'	1078.98	1062.83
298+75.00	298+75.00'BP'	10'	1079.11	1063.80
299+00.00	299+00.00'BP'	10'	1079.23	1065.05
299+25.00	299+25.00'BP'	10'	1079.36	1066.30
299+50.00	299+50.00'BP'	10'	1079.48	1067.55
299+75.00	299+75.00'BP'	10'	1079.61	1068.80
300+00.00	300+00.00'BP'	10'	1079.73	1070.05
300+25.00	300+25.00'BP'	10'	1079.45	1071.30
300+50.00	300+50.00'BP'	10'	1079.17	1072.55
300+75.00	300+75.00'BP'	10'	1078.88	1073.80
301+00.00	301+00.00'BP'	10'	1078.66	1075.05
301+25.00	301+25.00'BP'	10'	1076.29	1076.20

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEMS	UNIT
511.2200.02	TEMPORARY SHORING LEFT IN PLACE R-13-341	4,030 SF
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	305 LF
SPV.0090.653	RAILING STEEL R-13-341	303 LF
SPV.0165.650	WALL MODULAR BLOCK GRAVITY R-13-341	3,545 SF

WISCONSIN
KAREN L. WALDERA
E-39158
TAYLOR
WI
PROFESSIONAL ENGINEER
7-24-19

BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608)-266-8489

CONSULTANT CONTACT:
KAREN WALDERA
(715)-834-3161

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 08/29/19
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE R-13-341

RETAINING WALL ALONG BIKE PATH 'BP'

COUNTY DANE — ~~TOWN~~/CITY/~~VILLAGE~~ MADISON

DESIGN SPEC: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	KLW	DESIGN CK'D.	ZSS	DRAWN BY CLS/ZSS	PLANS CK'D.	KLW

RETAINING WALL LAYOUT

SHEET 5 OF 536 SHEETS

8

GENERAL NOTES

THE PLAN QUANTITY FOR THE BID ITEM "WALL MODULAR BLOCK GRAVITY" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

DRAWINGS SHALL NOT BE SCALED.

THE QUANTITY OF CONCRETE MASONRY, COATED REINFORCING STEEL, AND RUBBERIZED MEMBRANE WATERPROOFING FOR THE CAST-IN-PLACE COPING IS INCIDENTAL TO BID ITEM "WALL MODULAR BLOCK GRAVITY".

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL MODULAR BLOCK GRAVITY".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS AND DETAILS COMMON TO ANY WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE RETAINIING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON SHEET 1.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AND RAILING AS SHOWN.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 100 psf.

ULTIMATE DESIGN STRESSES:

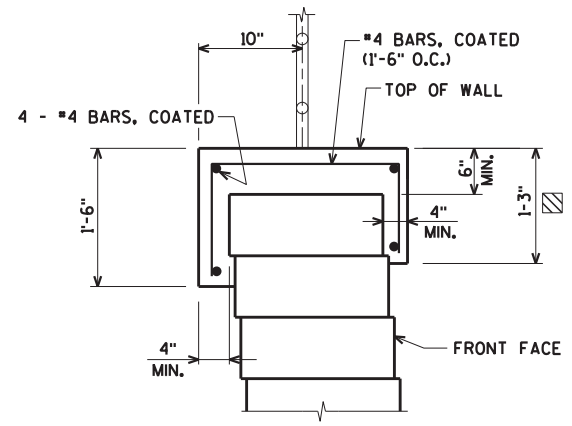
CONCRETE MASONRY (COPING) ——— f'_c = 3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60) ——— f_y = 60,000 p.s.i.

NOTES

■ THE LENGTHS PROVIDED IN THE TABLE ARE THE MINIMUM REQUIRED REINFORCEMENT LENGTHS BASED UPON THE MINIMUM DESCRIBED IN THE WALL SYSTEM SPECIAL PROVISIONS OR EXTERNAL AND OVERALL STABILITY AT THE DESIGNATED LOCATIONS. THESE DESIGNATED LOCATIONS REPRESENT TYPICAL AND CRITICAL WALL LOCATIONS, BUT SHALL NOT BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR DESIGN LENGTHS SHALL MEET OR EXCEED THE MINIMUM VALUES REPRESENTED IN THE TABLE AT THESE DESIGNATED LOCATIONS.

☆ THE LENGTHS PROVIDED IN THE TABLE ARE THE MINIMUM REQUIRED REINFORCMENT LENGTHS BASED ON OVERALL STABILITY PERFORMED BY THE WALL DESIGNER. COMPOUND STABILITY IS THE CONTRACTORS RESPONSIBILITY.

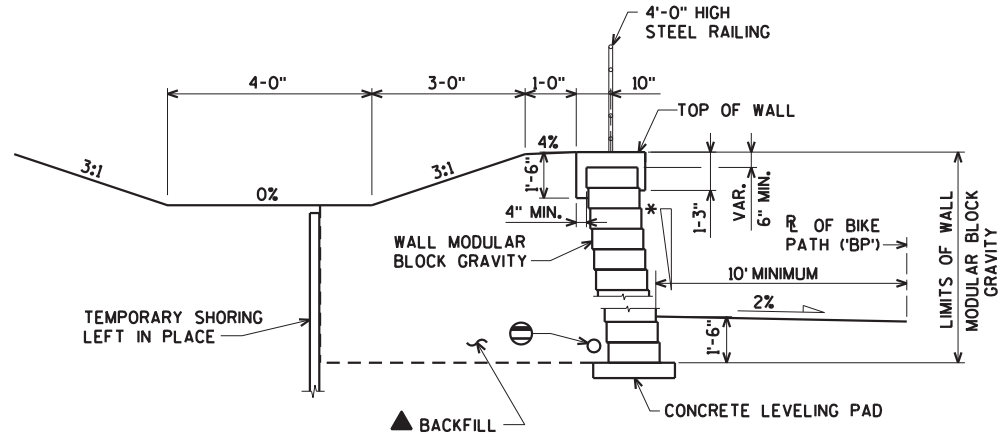
⊗ STRATUM LOCATIONS & SOIL DESCRIPTIONS AT EACH BORING LOCATION.



COPING DETAIL

▨ THIS DIMENSION MAY CHANGE DEPENDING ON HEIGHT OF BLOCKS. THIS DIMENSION TO BE CONSTANT FOR ENTIRE LENGTH OF WALL. MAXIMUM ALLOWABLE HEIGHT OF BLOCKS TO BE 9 INCHES.

MAINTAIN 2" MINIMUM COVER ON ALL REBAR.



SECTION A-A

* SET BLOCK VARIES BY MANUFACTURER, MAX. FRONT FACE FROM VERTICAL BLOCK IS 1 HORIZ. TO 12 VERT.

▲ INCIDENTAL TO BID ITEM "WALL MODULAR BLOCK GRAVITY".

⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 3.

FOR LOCATION OF SECTION A, SEE SHEET 1

SOIL PARAMETERS

STRATUM LOCATIONS AND SOIL DESCRIPTIONS	TOTAL UNIT WEIGHT (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PCF)
GRANULAR BACKFILL (REINFORCING ZONE OR BACKFILL)	120	30	0
RETAINED SOIL ⊛	120	30	0
BORING #5			
SAND W/SILT & GRAVEL EL. 1079.30 - EL. 1062.30 ⊗	120	30	0
SAND EL. 1062.30 - EL. 1057.30 ⊗	125	34	0
SAND EL. 1057.30 - EL. 1046.80 ⊗	120	32	0
CLAY EL. 1046.80 - EL. 1041.80 ⊗	125	$0^{1}/_{26}^{2}$	$2,500^{1}/_{50}^{2}$
SAND & GRAVEL, SOME SILT BELOW EL. 1041.80 ⊗	130	36	0
BORING #11			
SAND & GRAVEL WITH COBBLES/BOULDERS EL. 1074.60 - EL. 1064.10 ⊗	120	30	0
SAND & GRAVEL, SOME SILT EL. 1064.10 - EL. 1061.60 ⊗	130	36	0
SAND & GRAVEL BELOW EL. 1061.60 ⊗	125	36	0

⊛ DESIGN WALL FOR THESE VALUES

NOTES:
1. FOR SHORT-TERM (UNDRAINED) LOADING CONDITIONS
2. FOR LONG-TERM (DRAINED) LOADING CONDITIONS

WALL EXTERNAL & OVERALL STABILITY EVALUATION

DIMENSIONS	EVALUATED LOCATIONS	
WALL HEIGHT (FEET)	17.7	17.7
EXPOSED WALL HEIGHT (FEET)	16.2	16.2
MINIMUM LENGTH OF REINFORCEMENT (FEET) ■	-	-
WALL STATION	298+25.11'BP' -	301+25.00'BP'
BORING USED	#5	#11
CAPACITY TO DEMAND RATIO (CDR)		
SLIDING (CDR>1.0)	1.00	1.25
ECCENTRICITY (CDR>1.0)	0.67	0.44
OVERALL STABILITY (CDR>1.0) ☆	1.25	1.73
BEARING RESISTANCE (CDR>1.0)	1.04	2.32
FACTORED BEARING RESISTANCE (psf)	3,836	1,725

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STRUCTURE R-13-341

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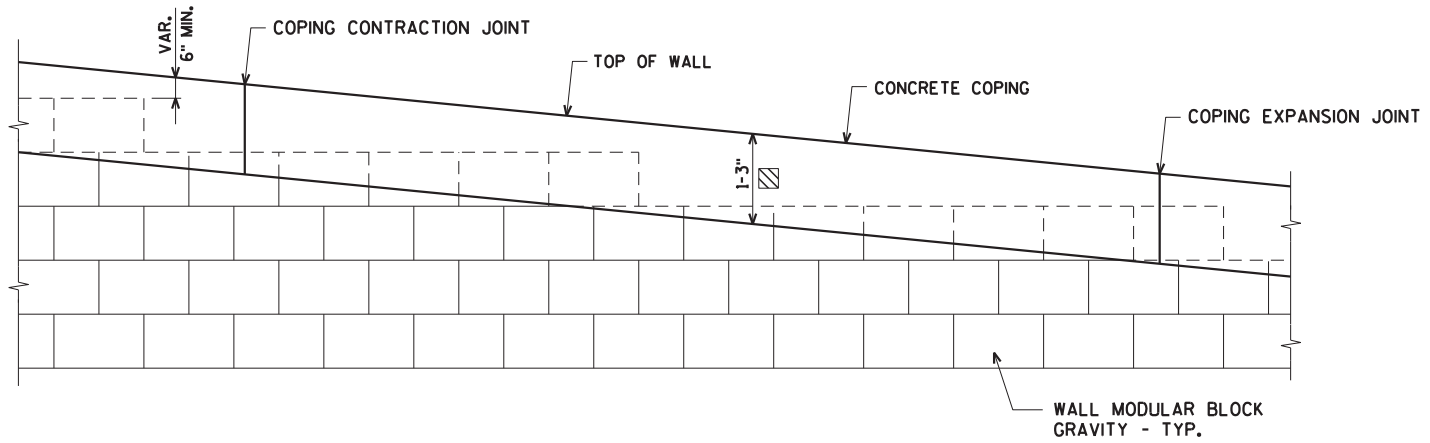
RETAINING WALL DETAILS

SHEET 2 OF 5
537

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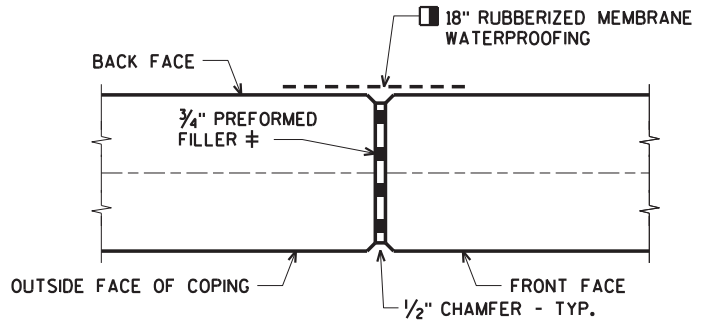
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RETAINING WALL FACE & CONCRETE COPING DETAIL

▨ THIS DIMENSION MAY CHANGE DEPENDING ON HEIGHT OF BLOCKS. THIS DIMENSION TO BE CONSTANT FOR ENTIRE LENGTH OF WALL. MAXIMUM ALLOWABLE HEIGHT OF BLOCKS TO BE 9 INCHES.



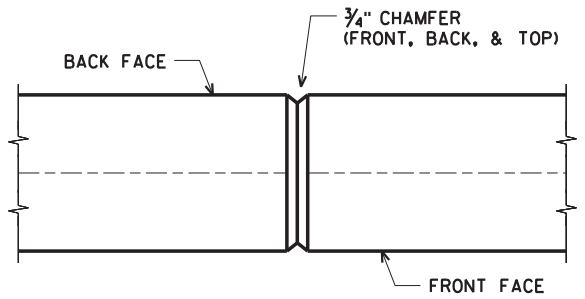
COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT
MAXIMUM SPACING OF JOINT = 50'

◨ MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS.

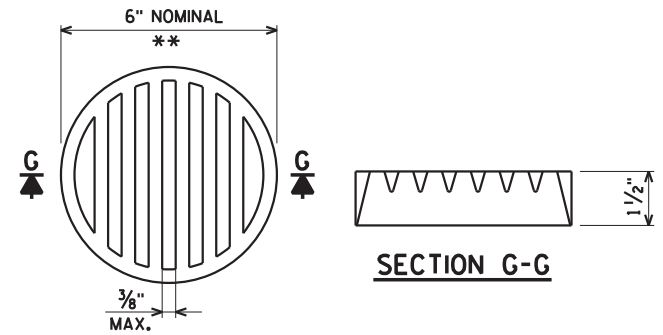
‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)

PLACE EXPANSION JOINTS AT EVERY THIRD JOINT AND AT ALL WALL RADIUS PC/PT POINTS AND BEND POINTS.



COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT
MAXIMUM SPACING OF JOINT = 12'



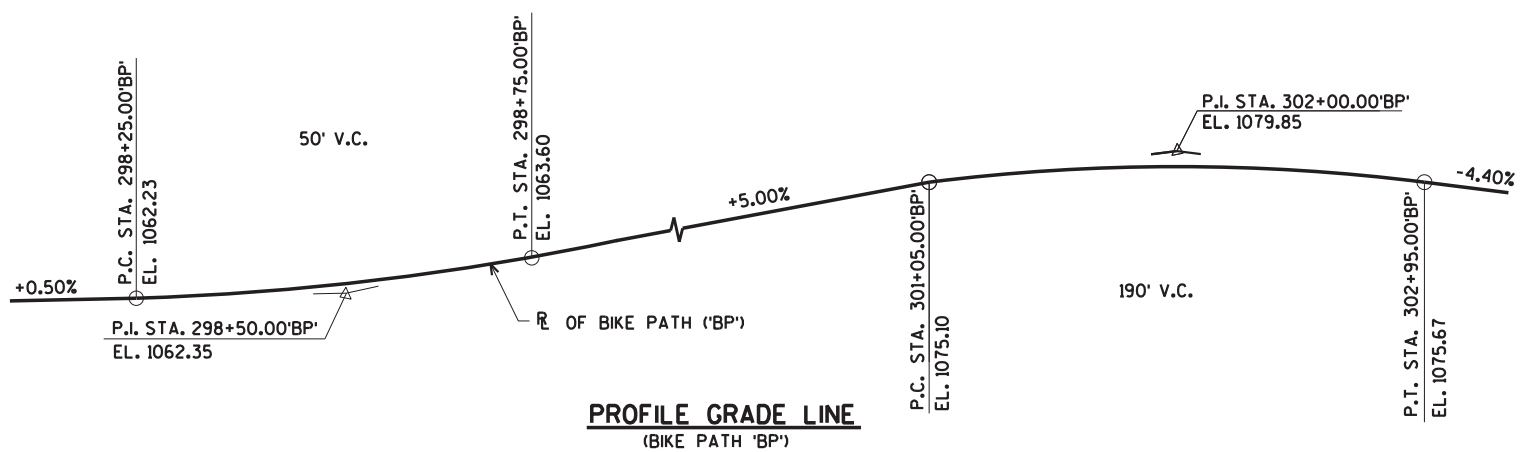
SECTION G-G

** DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 x 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

RODENT SHIELD DETAIL



PROFILE GRADE LINE
(BIKE PATH 'BP')

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STRUCTURE R-13-341

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RETAINING WALL DETAILS

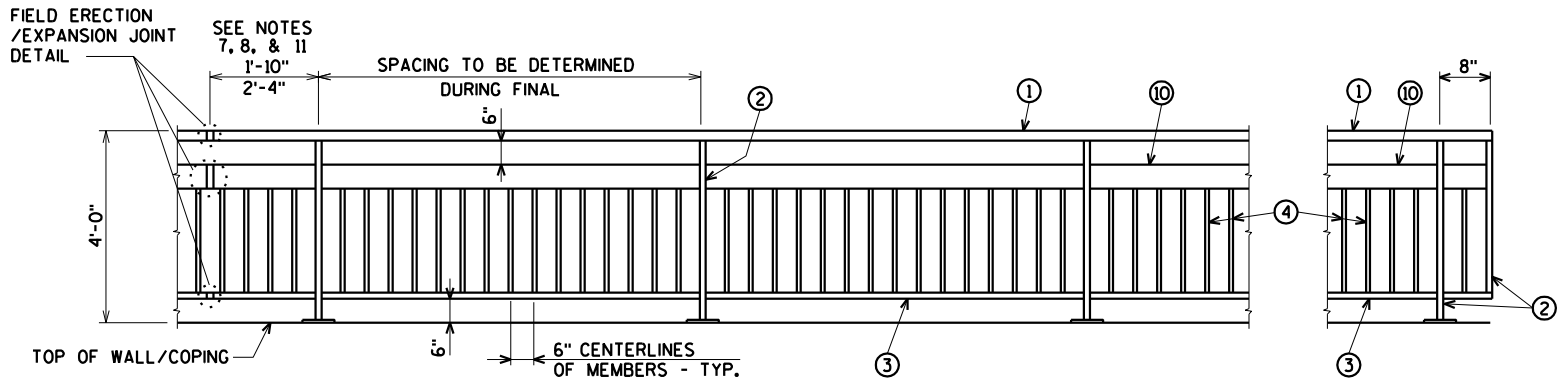
SHEET 3 OF 5
538

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PART ELEVATION OF RAILING STEEL

END SECTION

LEGEND

(1) 2 ½" DIA. STEEL PIPE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS.

(2) TS 2" x 2" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B. CUT BOTTOM OF POST TO MATCH SLOPE OF TOP OF WALL. HOLD 1/16" ABOVE BASE PLATE TO ALLOW POST AND BASE PLATE TO BE WELDED TOGETHER. PLACE POST VERTICAL AND CENTERED ON BASE PLATE.

(3) TS 1½" x 1½" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.

(4) 1" x 1" BAR CONFORMING TO ASTM DESIGNATION A709 GRADE 36.

(5) BASE PLATE ½" x 7" x 7" CONFORMING TO ASTM DESIGNATION A709 GRADE 36 WITH 11/16" HOLES FOR HEX BOLTS NO. 6. WELD TO NO. 2 AS SHOWN.

(6) CONCRETE MASONRY ANCHORS, TYPE S, ⅝". PULLOUT STRENGTH SHALL BE 3.6 KIPS.

(7) SQUARE SLEEVE FABRICATED FROM ½" COLD DRAWN STEEL ALLOY SQUARE CONFORMING TO ASTM A331 x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE ½" ϕ SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 3. PROVIDE ⅜" DIA. x ½" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

(8) 1½" DIA. STEEL PIPE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE ½" DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 1. PROVIDE ⅜" DIA. x ½" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

(9) 2" DIA. PIPE SLEEVE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS. PROVIDE "SLIDING FIT".

(10) TS 6" x 2" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.

(11) 1" x 5" SLEEVE CONFORMING TO ASTM DESIGNATION A709 GRADE 36 x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE ½" DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE IN I.D. OF NO. 10. PROVIDE ⅜" x ½" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

GENERAL NOTES

BID ITEM SHALL BE "RAILING STEEL R-13-341", WHICH INCLUDE ALL ITEMS SHOWN INCLUDING GALVANIZED COATING.

RAILING SHALL BE FABRICATED IN 2 OR 3 PANEL LENGTHS.

POST BASE PLATES NO. 5 SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

ALL MATERIAL EXCEPT ANCHOR BOLTS NO. 6 SHALL BE GALVANIZED AFTER FABRICATION.

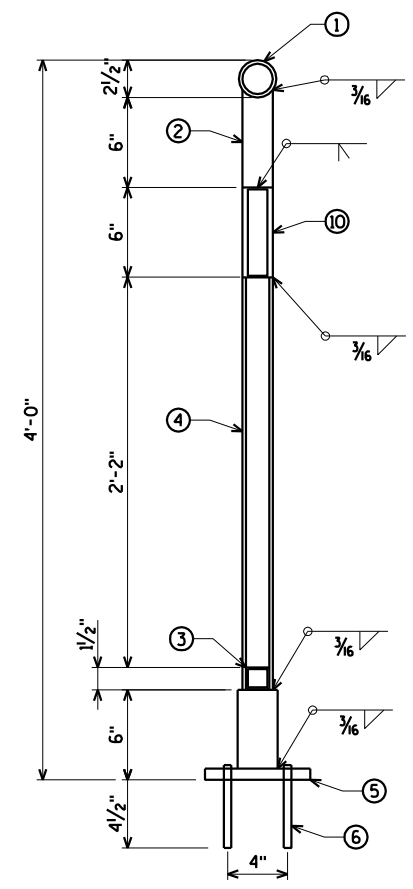
PRIOR TO GALVANIZING ALL STEEL RAILING POSTS, STEEL TUBING, AND STEEL PIPE SHALL BE GIVEN A NO. 6 BLAST CLEANING PER S.S.P.C. SPECIFICATIONS.

VERTICAL MEMBERS SHALL BE PLUMB.

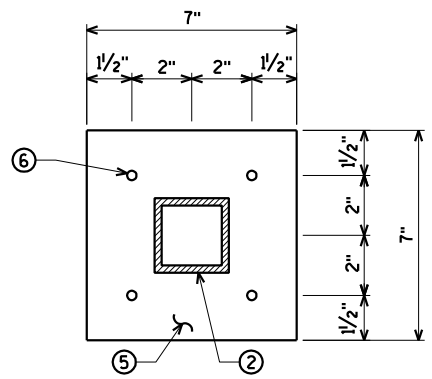
HORIZONTAL MEMBERS SHALL PARALLEL TO GRADE.

PAINT OVER GALVANIZING WITH APPROVED TIE COAT AND TOPCOAT.

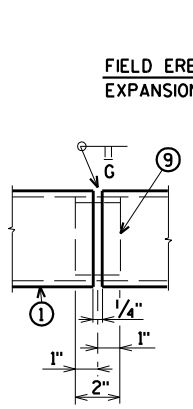
RAILING TO BE PAINTED FEDERAL COLOR NO. 17038 (BLACK).



SECTION THRU RAILING STEEL

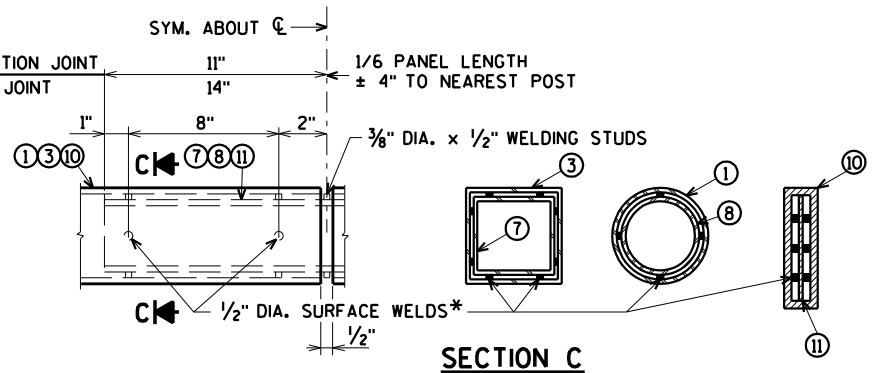


RAILING BASE PLATE



SHOP RAIL SPLICE DETAIL

(LOCATION MUST BE SHOWN ON THE SHOP DRAWINGS)



FIELD ERECTION JOINT DETAIL

*MIN. ⅝" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.

SECTION C

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-341

DRAWN BY CLS/ZSS | PLANS CK'D. KLW

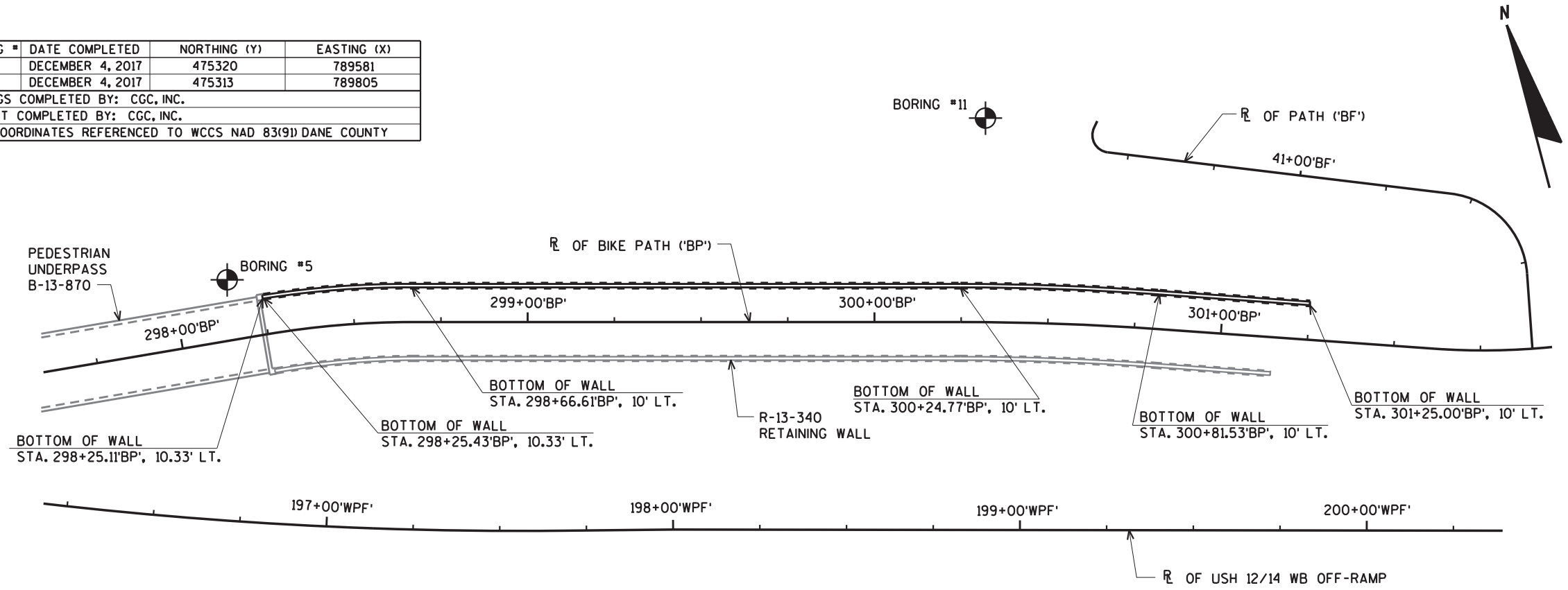
RAILING DETAILS

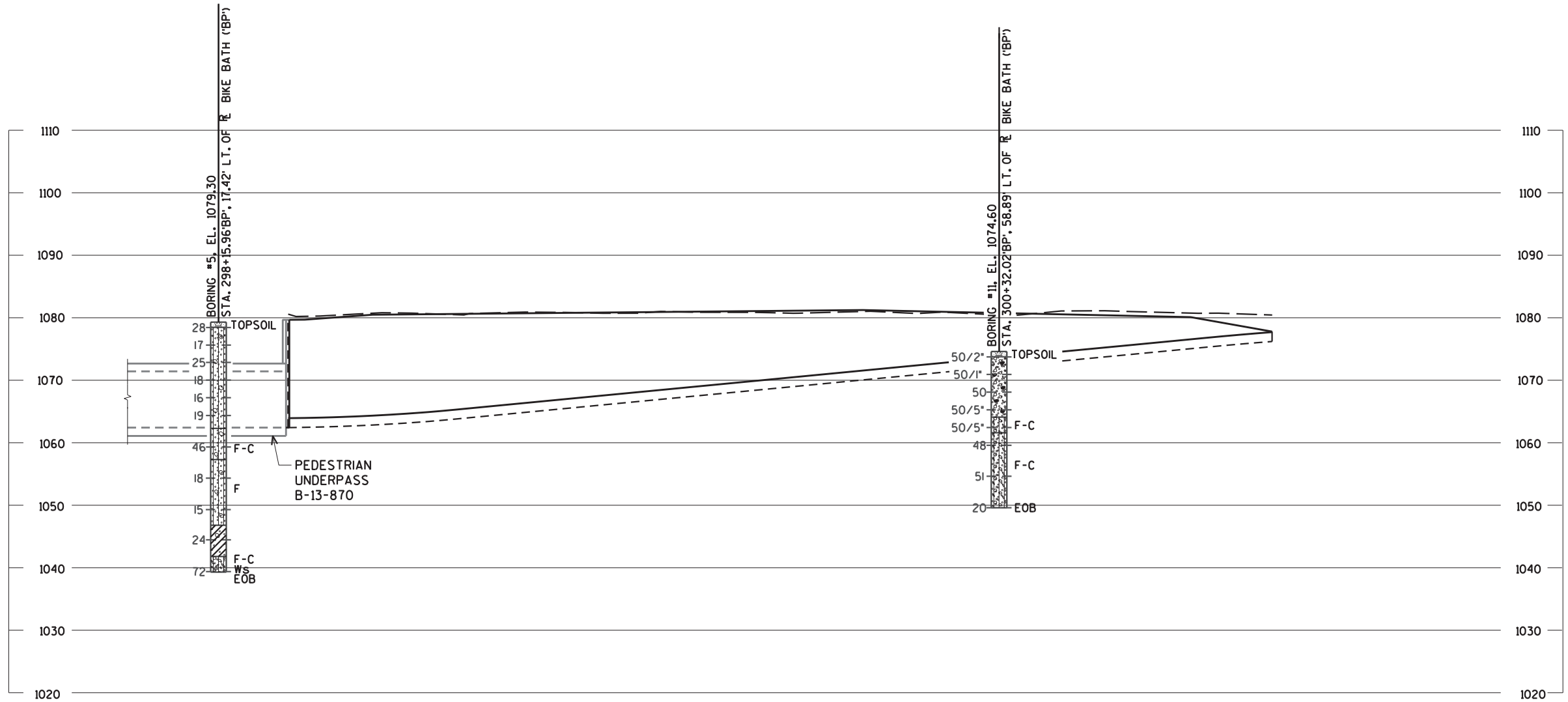
SHEET 4 OF 5
539

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
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U:\41-0737.00 - Common Road Bike Path - Madison\Structures\Final\Retaining Walls\R-13-341BP railing.dgn

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
5	DECEMBER 4, 2017	475320	789581
11	DECEMBER 4, 2017	475313	789805
BORINGS COMPLETED BY: CGC, INC.			
REPORT COMPLETED BY: CGC, INC.			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) DANE COUNTY			





8

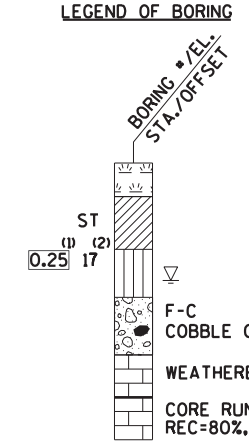
STATE PROJECT NUMBER

5992-10-31

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-341

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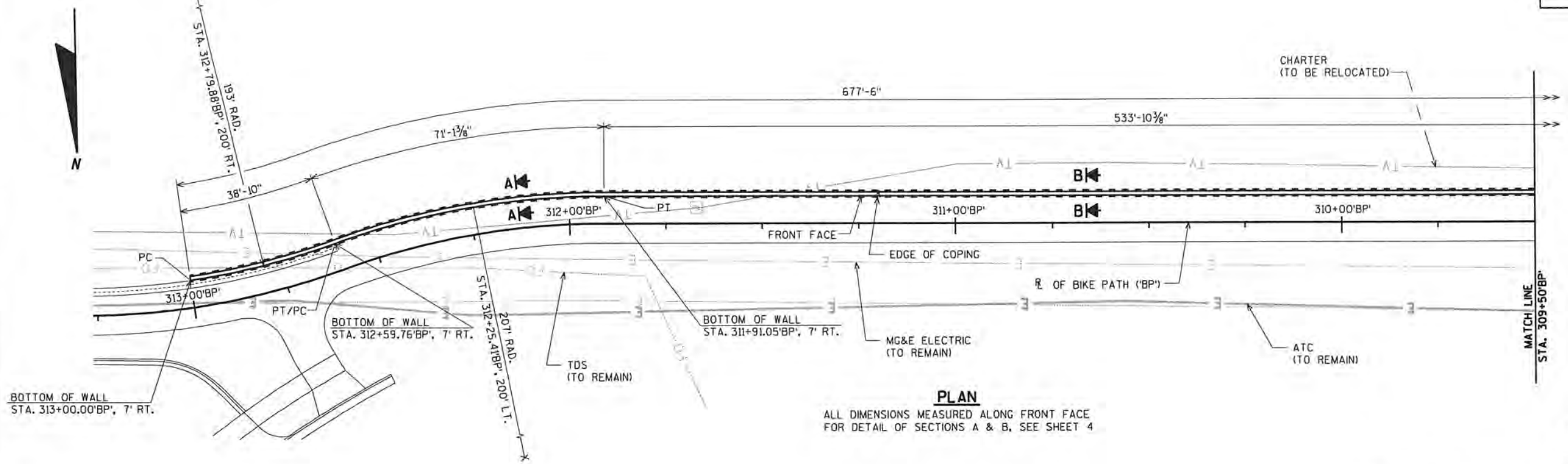
SUBSURFACE EXPLORATION

SHEET 5 OF 5
540

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7/3/2019
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STATE PROJECT NUMBER

5992-10-31



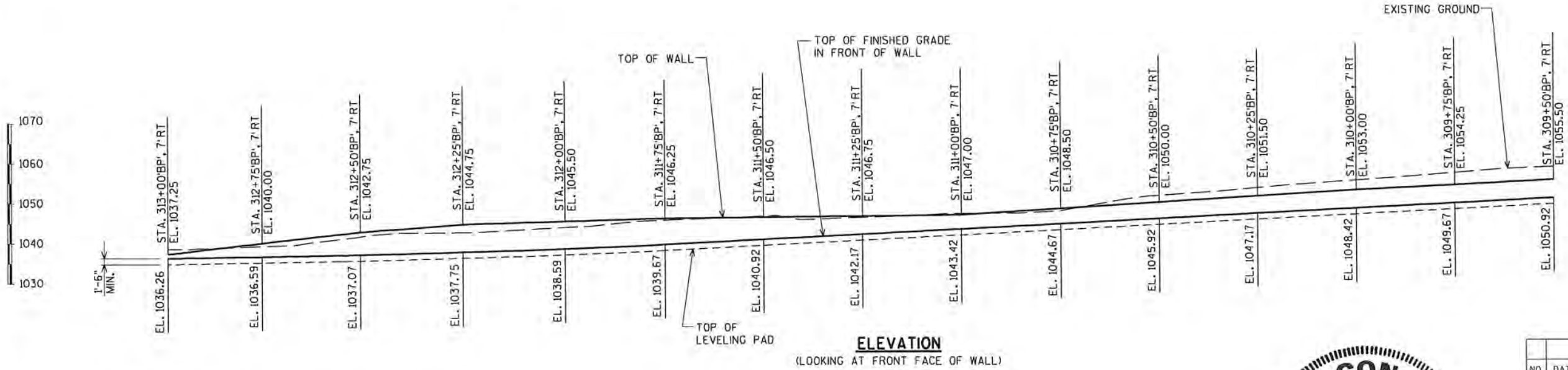
PLAN

ALL DIMENSIONS MEASURED ALONG FRONT FACE
FOR DETAIL OF SECTIONS A & B, SEE SHEET 4

LIST OF DRAWINGS

1. RETAINING WALL LAYOUT
2. RETAINING WALL LAYOUT
3. RETAINING WALL DETAILS
4. RETAINING WALL DETAILS
5. RAILING DETAILS
6. SUBSURFACE EXPLORATION

FOR GENERAL NOTES AND DESIGN DATA SEE SHEET 3



ELEVATION

(LOOKING AT FRONT FACE OF WALL)

GEOMETRY TABLE

WALL STATION	ROADWAY STATION	OFFSET TO F.F. WALL	TOP OF WALL EL.	FINISHED GRADE EL.
313+00.00	313+00.00'BP'	7'	1037.25	1036.26
312+75.00	312+75.00'BP'	7'	1040.00	1036.59
312+50.00	312+50.00'BP'	7'	1042.75	1037.07
312+25.00	312+25.00'BP'	7'	1044.75	1037.75
312+00.00	312+00.00'BP'	7'	1045.50	1038.59
311+75.00	311+75.00'BP'	7'	1046.25	1039.67
311+50.00	311+50.00'BP'	7'	1046.50	1040.92
311+25.00	311+25.00'BP'	7'	1046.75	1042.17
311+00.00	311+00.00'BP'	7'	1047.00	1043.42
310+75.00	310+75.00'BP'	7'	1048.50	1044.67
310+50.00	310+50.00'BP'	7'	1050.00	1045.92
310+25.00	310+25.00'BP'	7'	1051.50	1047.17
310+00.00	310+00.00'BP'	7'	1053.00	1048.42
309+75.00	309+75.00'BP'	7'	1054.25	1049.67
309+50.00	309+50.00'BP'	7'	1055.50	1050.92

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEMS	UNIT
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	680 LF
SPV.0090.654	RAILING STEEL R-13-342	678 LF
SPV.0165.655	WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH R-13-342	3,675 SF

WISCONSIN
KAREN L. WALDERA
E-39158
TAYLOR
WI
PROFESSIONAL ENGINEER
7-29-19

BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608)-266-8489

CONSULTANT CONTACT:
KAREN WALDERA
(715)-834-3161

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 08/29/19
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE R-13-342

RETAINING WALL ALONG BIKE PATH 'BP'

COUNTY DANE | ~~TOWN~~/CITY/~~VILLAGE~~ MADISON

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
KLW	ZSS	CLS/ZSS	KLW

RETAINING WALL LAYOUT

SHEET 541

I.D.

DATE:

$PRFNAME$
U:±4|-0737.00 - Common Road Bike Path - Madison±Structures±Final±Retaining Walls±R-13-342 BP

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DATE:
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CHECKED BY:
BACK CHECKED BY:
CORRECTED BY:

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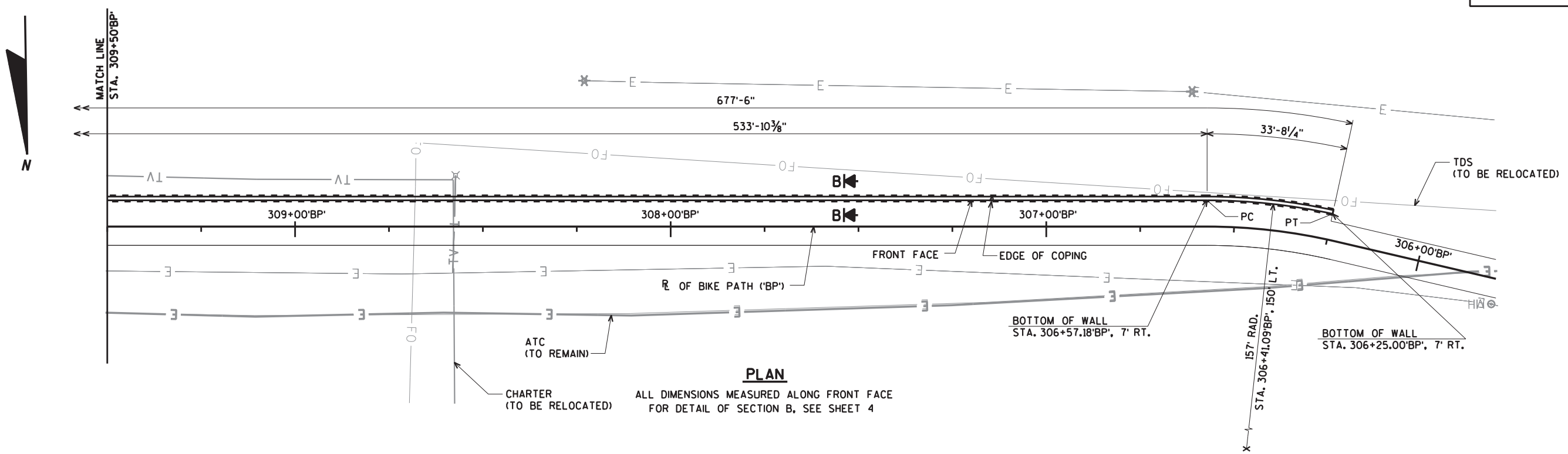
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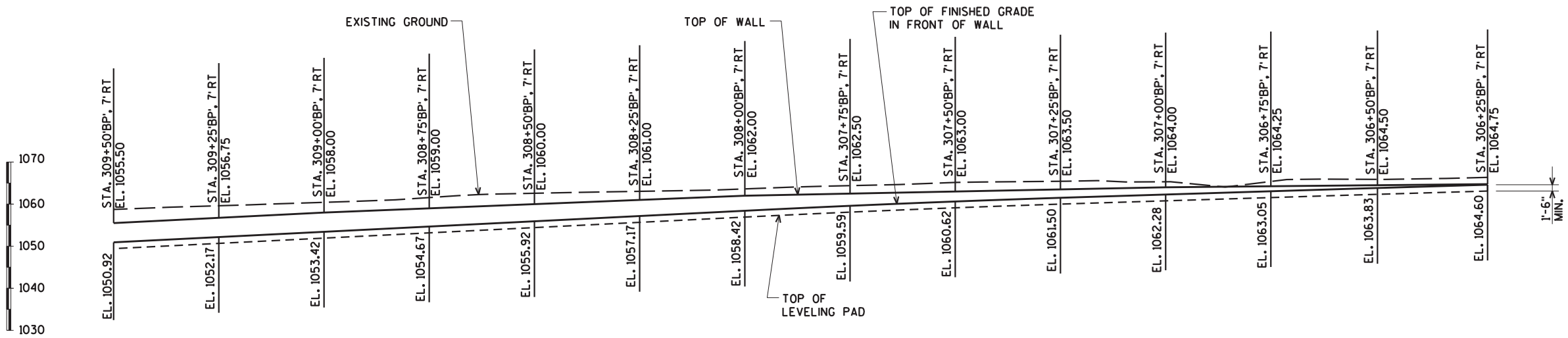
STATE PROJECT NUMBER

5992-10-31



PLAN

ALL DIMENSIONS MEASURED ALONG FRONT FACE
FOR DETAIL OF SECTION B, SEE SHEET 4



ELEVATION

(LOOKING AT FRONT FACE OF WALL)

GEOMETRY TABLE

WALL STATION	ROADWAY STATION	OFFSET TO F.F. WALL	TOP OF WALL EL.	FINISHED GRADE EL.
309+50.00	309+50.00'BP'	7'	1055.50	1050.92
309+25.00	309+25.00'BP'	7'	1056.75	1052.17
309+00.00	309+00.00'BP'	7'	1058.00	1053.42
308+75.00	308+75.00'BP'	7'	1059.00	1054.67
308+50.00	308+50.00'BP'	7'	1060.00	1055.92
308+25.00	308+25.00'BP'	7'	1061.00	1057.17
308+00.00	308+00.00'BP'	7'	1062.00	1058.42
307+75.00	307+75.00'BP'	7'	1062.50	1059.59
307+50.00	307+50.00'BP'	7'	1063.00	1060.62
307+25.00	307+25.00'BP'	7'	1063.50	1061.50
307+00.00	307+00.00'BP'	7'	1064.00	1062.28
306+75.00	306+75.00'BP'	7'	1064.25	1063.05
306+50.00	306+50.00'BP'	7'	1064.50	1063.83
306+25.00	306+25.00'BP'	7'	1064.75	1064.60

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-342

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RETAINING WALL LAYOUT

SHEET 2 OF 6
542

GENERAL NOTES

THE PLAN QUANTITY FOR THE BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

DRAWINGS SHALL NOT BE SCALED.

THE QUANTITY OF CONCRETE MASONRY, COATED REINFORCING STEEL, AND RUBBERIZED MEMBRANE WATERPROOFING FOR THE CAST-IN-PLACE COPING IS INCIDENTAL TO BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABALIZED EARTH".

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS AND DETAILS COMMON TO ANY WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE RETAINIING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON SHEETS 1 & 2.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AND RAILING AS SHOWN.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 100 psf.

ULTIMATE DESIGN STRESSES:

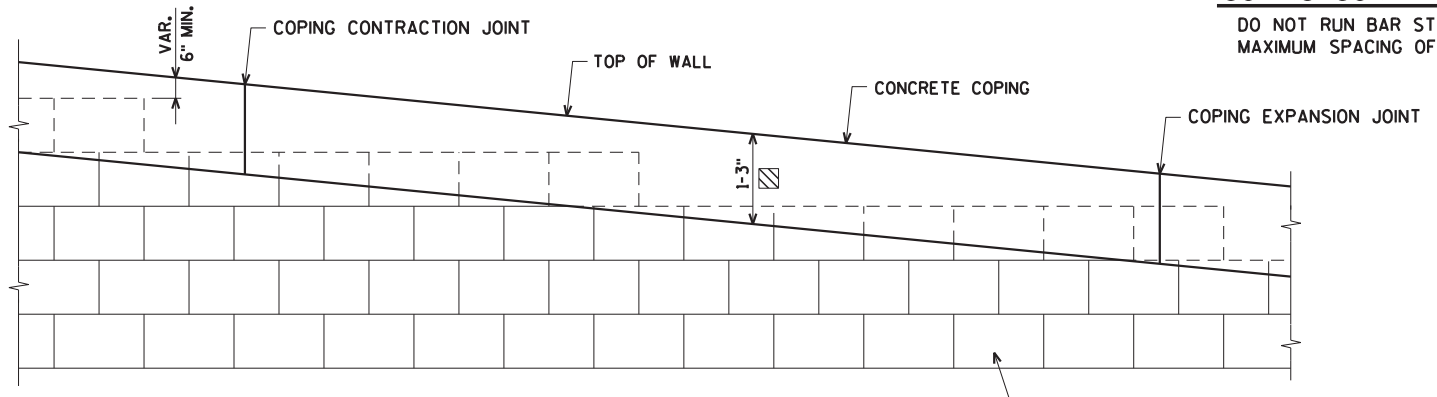
CONCRETE MASONRY (COPING) ——— f'_c = 3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60) ——— f_y = 60,000 p.s.i.

NOTES

■ THE LENGTHS PROVIDED IN THE TABLE ARE THE MINIMUM REQUIRED REINFORCEMENT LENGTHS BASED UPON THE MINIMUM DESCRIBED IN THE WALL SYSTEM SPECIAL PROVISIONS OR EXTERNAL AND OVERALL STABILITY AT THE DESIGNATED LOCATIONS. THESE DESIGNATED LOCATIONS REPRESENT TYPICAL AND CRITICAL WALL LOCATIONS, BUT SHALL NOT BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR DESIGN LENGTHS SHALL MEET OR EXCEED THE MINIMUM VALUES REPRESENTED IN THE TABLE AT THESE DESIGNATED LOCATIONS.

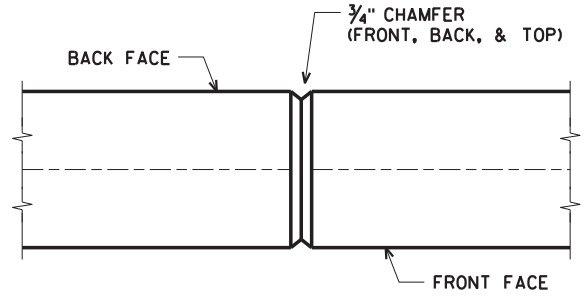
☆ THE LENGTHS PROVIDED IN THE TABLE ARE THE MINIMUM REQUIRED REINFORCMENT LENGTHS BASED ON OVERALL STABILITY PERFORMED BY THE WALL DESIGNER. COMPOUND STABILITY IS THE CONTRACTORS RESPONSIBILITY.

⊗ STRATUM LOCATIONS & SOIL DESCRIPTIONS AT EACH BORING LOCATION.



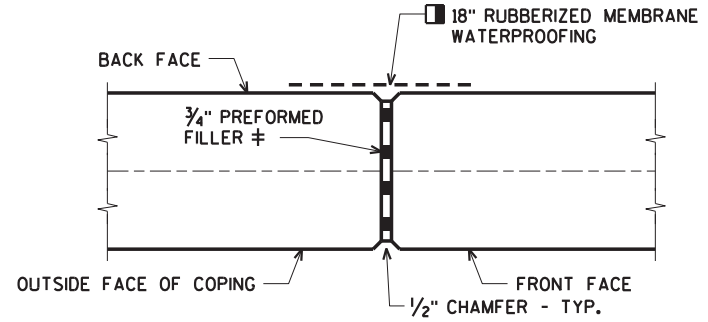
RETAINING WALL FACE & CONCRETE COPING DETAIL

▨ THIS DIMENSION MAY CHANGE DEPENDING ON HEIGHT OF BLOCKS. THIS DIMENSION TO BE CONSTANT FOR ENTIRE LENGTH OF WALL. MAXIMUM ALLOWABLE HEIGHT OF BLOCKS TO BE 9 INCHES.



COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT
MAXIMUM SPACING OF JOINT = 12'



COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT
MAXIMUM SPACING OF JOINT = 50'

■ MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS.

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)

PLACE EXPANSION JOINTS AT EVERY THIRD JOINT AND AT ALL WALL RADIUS PC/PT POINTS AND BEND POINTS.

SOIL PARAMETERS

STRATUM LOCATIONS AND SOIL DESCRIPTIONS	TOTAL UNIT WEIGHT (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PCF)
GRANULAR BACKFILL (REINFORCING ZONE OR BACKFILL)	120	30	0
RETAINED SOIL ⊛	120	30	0
BORING #13			
FILL W/SCATTERED DEBRIS EL. 1037.10 - EL. 1026.60 ⊗	120	30	0
SAND & GRAVEL, SOME SILT BELOW EL. 1026.60 ⊗	125	34	0
BORING #14			
SAND W/SILT & GRAVEL EL. 1066.70 - EL. 1061.20 ⊗	120	30	0
CLAY EL. 1061.20 - EL. 1056.20 ⊗	125	$0^{1}/_{26}{}^{2}$	$2,000^{1}/_{40}{}^{2}$
SAND & GRAVEL, SOME SILT EL. 1056.20 - EL. 1053.70 ⊗	120	34	0
SAND & GRAVEL EL. 1053.70 - EL. 1044.70 ⊗	130	36	0
SAND BELOW EL. 1044.70 ⊗	120	34	0

⊛ DESIGN WALL FOR THESE VALUES

NOTES:
1. FOR SHORT-TERM (UNDRAINED) LOADING CONDITIONS
2. FOR LONG-TERM (DRAINED) LOADING CONDITIONS

WALL EXTERNAL & OVERALL STABILITY EVALUATION

DIMENSIONS	EVALUATED LOCATIONS	
WALL HEIGHT (FEET)	8.5	8.5
EXPOSED WALL HEIGHT (FEET)	7	7
MINIMUM LENGTH OF REINFORCEMENT (FEET) ■	8.5	8.5
WALL STATION	313+00.00'BP'	- 306+25.00'BP'
BORING USED	#14	#13
CAPACITY TO DEMAND RATIO (CDR)		
SLIDING (CDR>1.0)	1.05	1.05
ECCENTRICITY (CDR>1.0)	0.46	0.39
OVERALL STABILITY (CDR>1.0) ☆	1.29	1.60
BEARING RESISTANCE (CDR>1.0)	2.01	2.46
FACTORED BEARING RESISTANCE (psf)	1,987	1,629

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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STRUCTURE R-13-342

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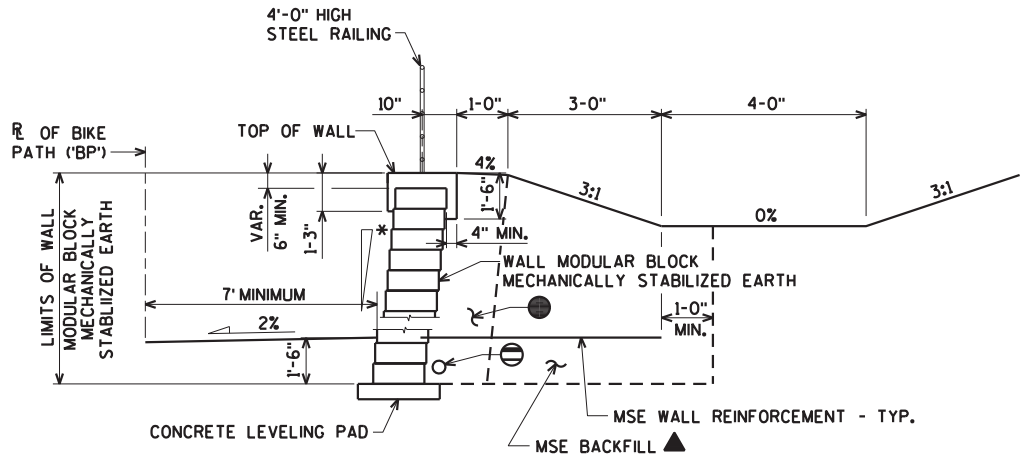
RETAINING WALL DETAILS

SHEET 3 OF 6
543

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7/3/2019
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SECTION A-A

STA. 311+75 TO STA. 313+00

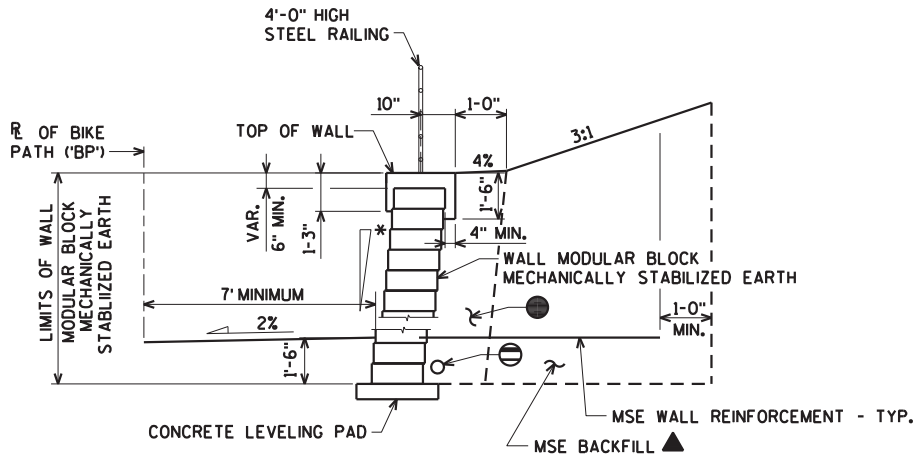
* SET BLOCK VARIES BY MANUFACTURER, MAX. FRONT FACE FROM VERTICAL BLOCK IS 1 HORIZ. TO 12 VERT.

▲ INCIDENTAL TO BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH".

● WALL BACKFILL, COURSE AGGREGATE NO. 1 BACK FACE WALL (1'-0" MIN.) WITHIN WALL REINFORCING ZONE ▲.

⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON THIS SHEET.

FOR LOCATION OF SECTION B, SEE SHEETS 1 & 2



SECTION B-B

STA. 306+25 TO STA. 311+50

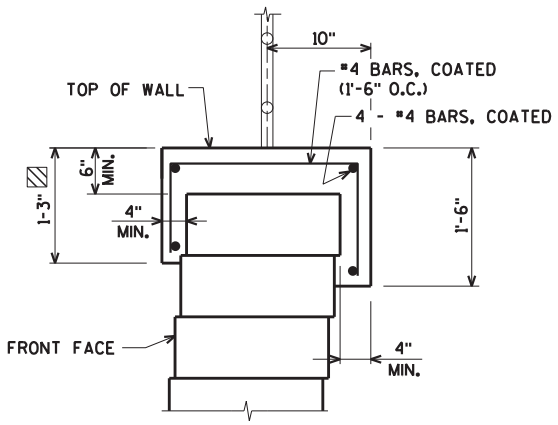
* SET BLOCK VARIES BY MANUFACTURER, MAX. FRONT FACE FROM VERTICAL BLOCK IS 1 HORIZ. TO 12 VERT.

▲ INCIDENTAL TO BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH".

● WALL BACKFILL, COURSE AGGREGATE NO. 1 BACK FACE WALL (1'-0" MIN.) WITHIN WALL REINFORCING ZONE ▲.

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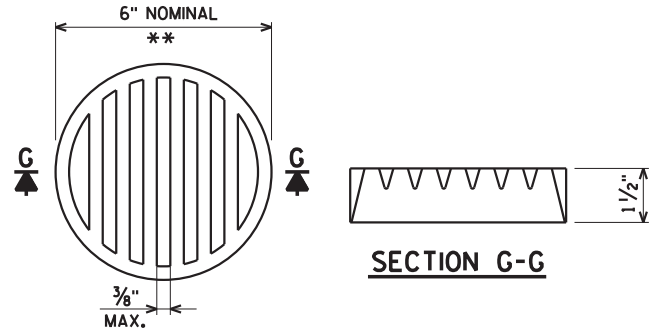
FOR LOCATION OF SECTION B, SEE SHEETS 1 & 2



COPING DETAIL

▨ THIS DIMENSION MAY CHANGE DEPENDING ON HEIGHT OF BLOCKS. THIS DIMENSION TO BE CONSTANT FOR ENTIRE LENGTH OF WALL. MAXIMUM ALLOWABLE HEIGHT OF BLOCKS TO BE 9 INCHES.

MAINTAIN 2" MINIMUM COVER ON ALL REBAR.



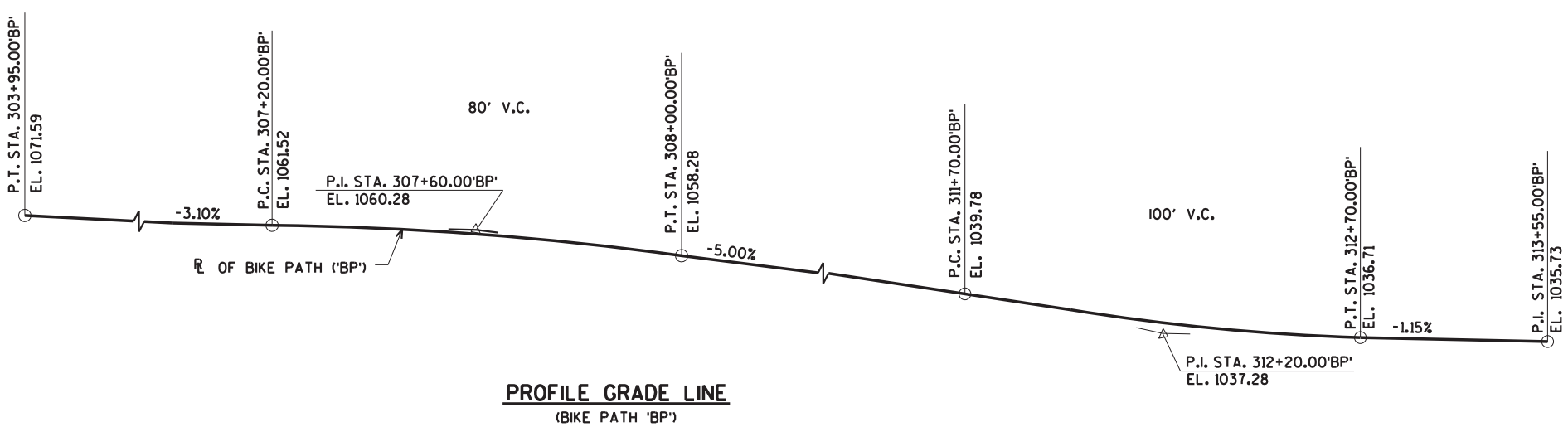
SECTION G-G

** DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 x 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

RODENT SHIELD DETAIL



PROFILE GRADE LINE

(BIKE PATH 'BP')

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STRUCTURE R-13-342

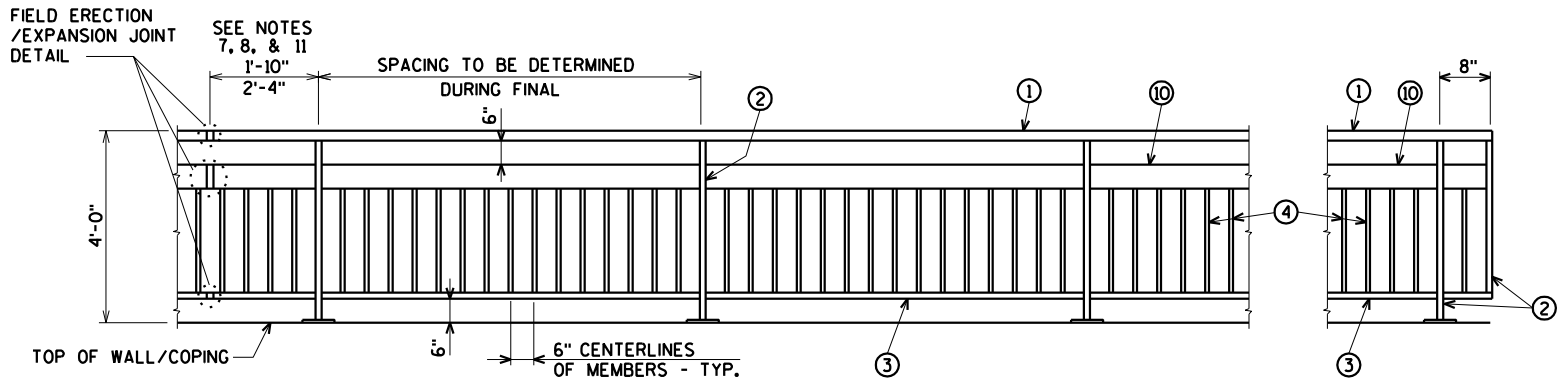
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RETAINING WALL DETAILS

SHEET 4 OF 6
544

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www.AyresAssociates.com

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PART ELEVATION OF RAILING STEEL

END SECTION

LEGEND

(1) 2 ½" DIA. STEEL PIPE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS.

(2) TS 2" x 2" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B. CUT BOTTOM OF POST TO MATCH SLOPE OF TOP OF WALL. HOLD 1/16" ABOVE BASE PLATE TO ALLOW POST AND BASE PLATE TO BE WELDED TOGETHER. PLACE POST VERTICAL AND CENTERED ON BASE PLATE.

(3) TS 1½" x 1½" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.

(4) 1" x 1" BAR CONFORMING TO ASTM DESIGNATION A709 GRADE 36.

(5) BASE PLATE ½" x 7" x 7" CONFORMING TO ASTM DESIGNATION A709 GRADE 36 WITH 11/16" HOLES FOR HEX BOLTS NO. 6. WELD TO NO. 2 AS SHOWN.

(6) CONCRETE MASONRY ANCHORS, TYPE S, ⅝". PULLOUT STRENGTH SHALL BE 3.6 KIPS.

(7) SQUARE SLEEVE FABRICATED FROM ½" COLD DRAWN STEEL ALLOY SQUARE CONFORMING TO ASTM A331 x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE ½" ϕ SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 3. PROVIDE ⅜" DIA. x ½" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

(8) 1½" DIA. STEEL PIPE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE ½" DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 1. PROVIDE ⅜" DIA. x ½" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

(9) 2" DIA. PIPE SLEEVE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS. PROVIDE "SLIDING FIT".

(10) TS 6" x 2" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.

(11) 1" x 5" SLEEVE CONFORMING TO ASTM DESIGNATION A709 GRADE 36 x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE ½" DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE IN I.D. OF NO. 10. PROVIDE ⅜" x ½" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

GENERAL NOTES

BID ITEM SHALL BE "RAILING STEEL R-13-342", WHICH INCLUDE ALL ITEMS SHOWN INCLUDING GALVANIZED COATING.

RAILING SHALL BE FABRICATED IN 2 OR 3 PANEL LENGTHS.

POST BASE PLATES NO. 5 SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

ALL MATERIAL EXCEPT ANCHOR BOLTS NO. 6 SHALL BE GALVANIZED AFTER FABRICATION.

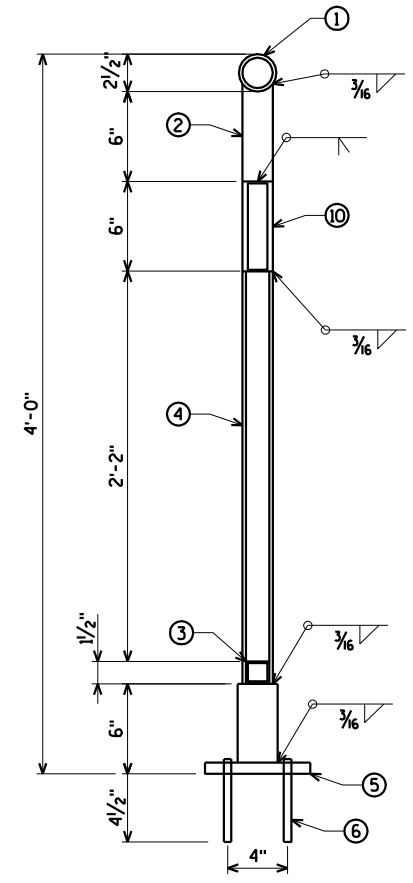
PRIOR TO GALVANIZING ALL STEEL RAILING POSTS, STEEL TUBING, AND STEEL PIPE SHALL BE GIVEN A NO. 6 BLAST CLEANING PER S.S.P.C. SPECIFICATIONS.

VERTICAL MEMBERS SHALL BE PLUMB.

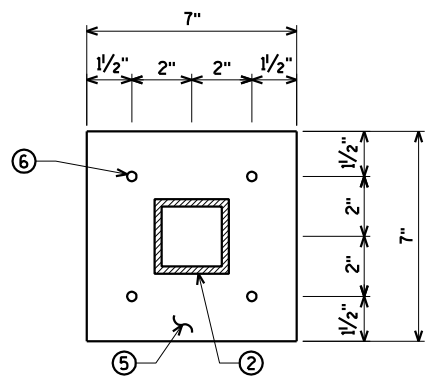
HORIZONTAL MEMBERS SHALL PARALLEL TO GRADE.

PAINT OVER GALVANIZING WITH APPROVED TIE COAT AND TOPCOAT.

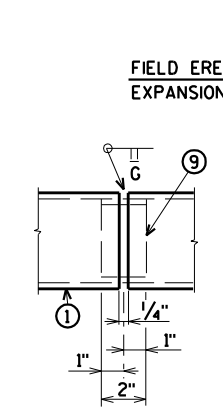
RAILING TO BE PAINTED FEDERAL COLOR NO. 17038 (BLACK).



SECTION THRU RAILING STEEL

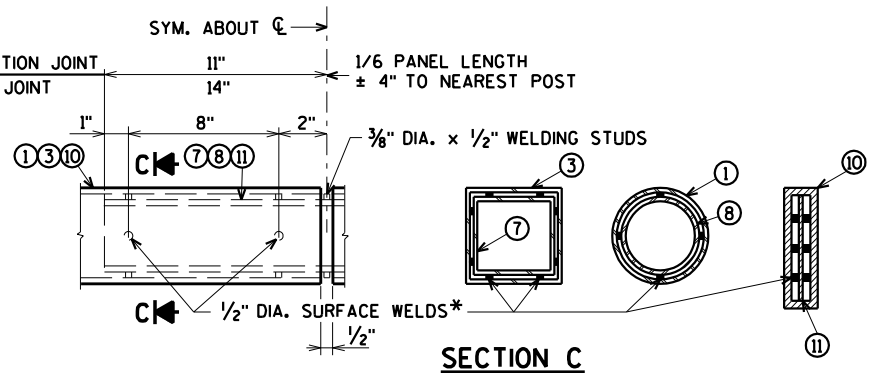


RAILING BASE PLATE



SHOP RAIL SPLICE DETAIL

(LOCATION MUST BE SHOWN ON THE SHOP DRAWINGS)



FIELD ERECTION JOINT DETAIL

*MIN. ⅝" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.

SECTION C

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-342

DRAWN BY CLS/ZSS | PLANS CK'D. KLW

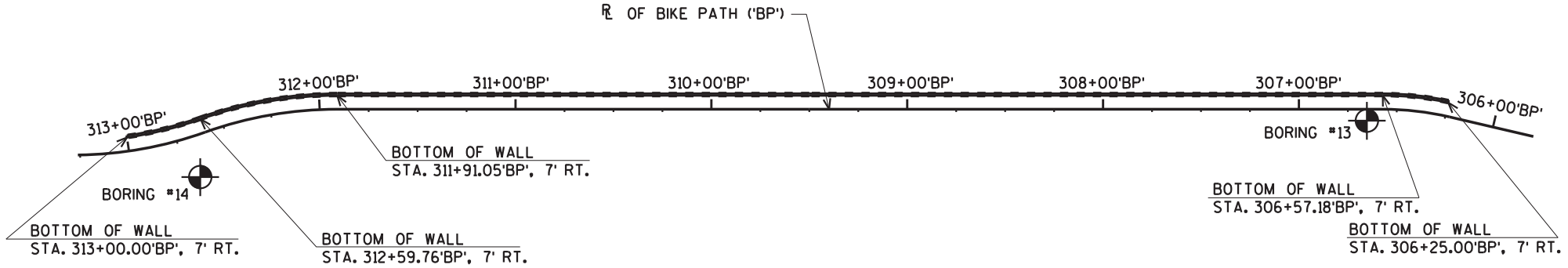
RAILING DETAILS

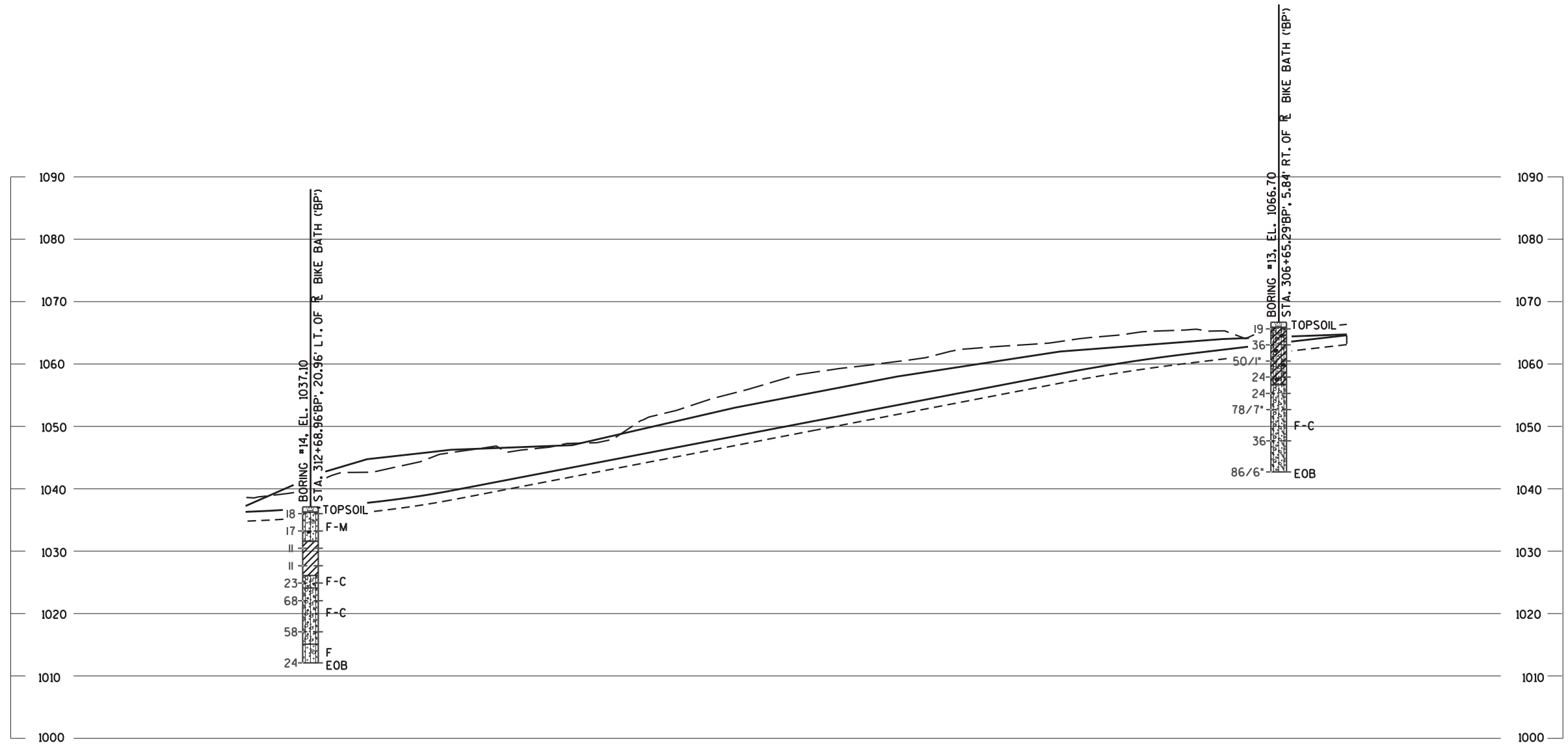
SHEET 5 OF 6
545

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

$PRFNAME$
U:\41-0737.00 - Common Road Bike Path - Madison\Structures\Final\Retaining Walls\R-13-342 BP railing.dgn

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
13	DECEMBER 5, 2017	475148	790408
14	DECEMBER 5, 2017	475184	791004
BORINGS COMPLETED BY: CGC, INC.			
REPORT COMPLETED BY: CGC, INC.			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) DANE COUNTY			





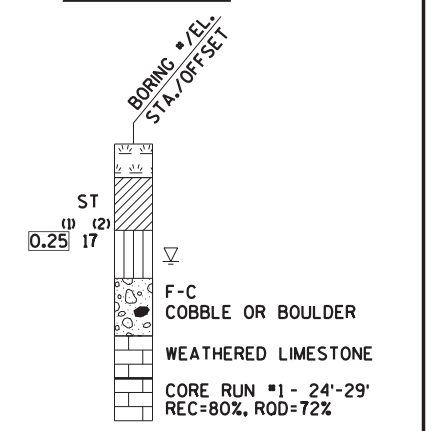
STATE PROJECT NUMBER

5992-10-31

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-342

DRAWN BY CLS/ZSS | PLANS CK'D. KLW

SUBSURFACE EXPLORATION

SHEET 6 OF 6

546

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$PRFNAME$
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1/3/2019
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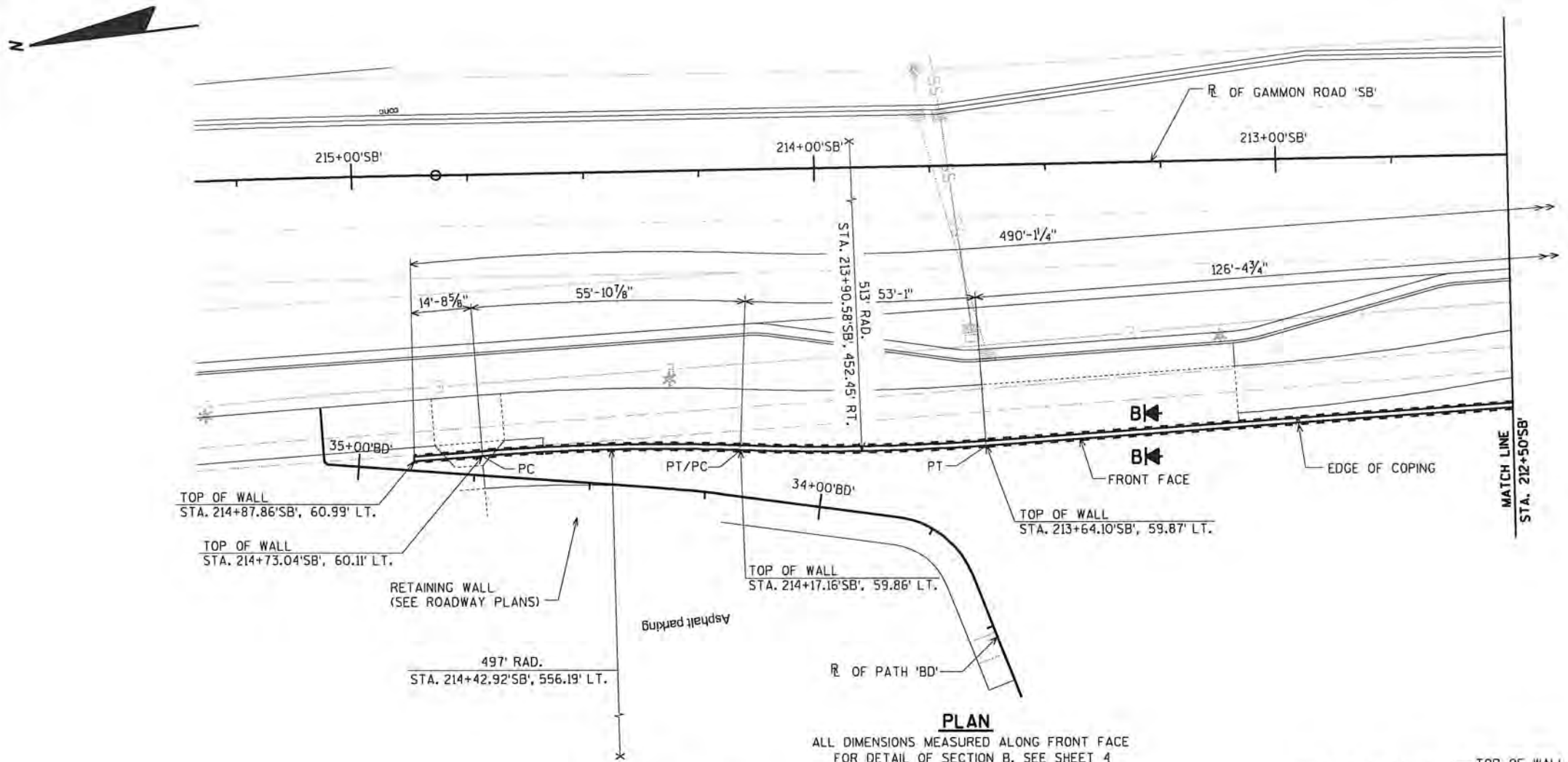
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Li:±41-0737.00 - Gamman Road Bike Path - Madison±Structures±Final±Retaining Walls±R-13-343.shb

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DATE:
CHECKED BY:
BACK CHECKED BY:
CORRECTED BY:

STATE PROJECT NUMBER
5992-10-31

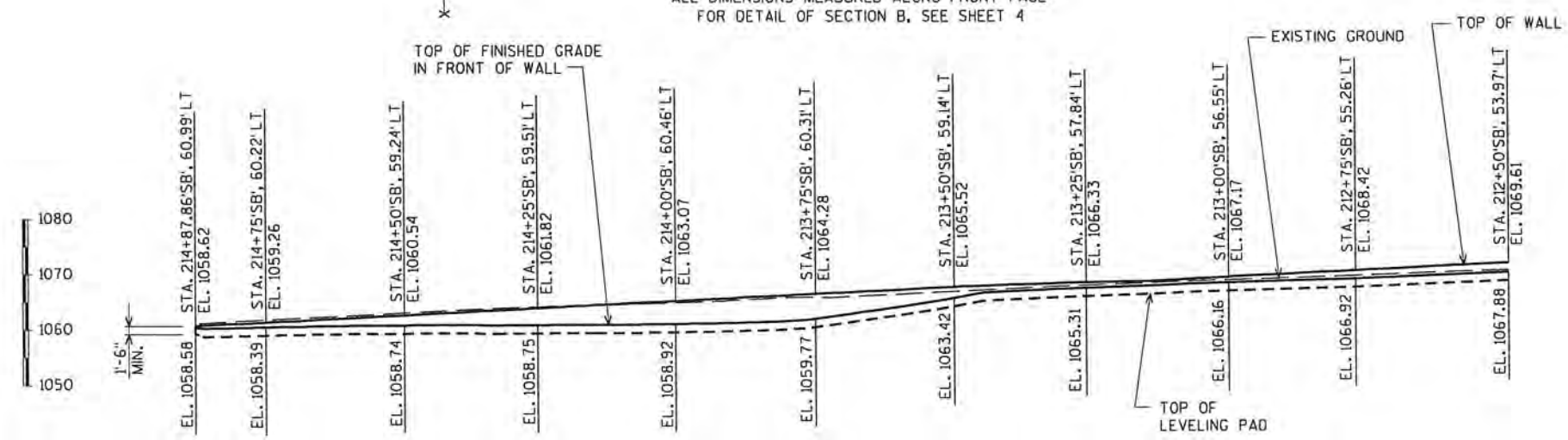
LIST OF DRAWINGS

1. RETAINING WALL LAYOUT
2. RETAINING WALL LAYOUT
3. RETAINING WALL DETAILS
4. RETAINING WALL DETAILS
5. RAILING DETAILS
6. SUBSURFACE EXPLORATION



PLAN

ALL DIMENSIONS MEASURED ALONG FRONT FACE
FOR DETAIL OF SECTION B, SEE SHEET 4



ELEVATION

(LOOKING AT FRONT FACE OF WALL)

GEOMETRY TABLE

WALL STATION	ROADWAY STATION	OFFSET TO F.F. WALL	TOP OF WALL EL.	FINISHED GRADE EL.
214+87.86	214+87.86'SB'	60.99'	1058.62	1058.58
214+75.00	214+75.00'SB'	60.22'	1059.26	1058.39
214+50.00	214+50.00'SB'	59.24'	1060.54	1058.74
214+25.00	214+25.00'SB'	59.51'	1061.82	1058.75
214+00.00	214+00.00'SB'	60.46'	1063.07	1058.92
213+75.00	213+75.00'SB'	60.31'	1064.28	1059.77
213+50.00	213+50.00'SB'	59.14'	1065.52	1063.42
213+25.00	213+25.00'SB'	57.84'	1066.33	1065.31
213+00.00	213+00.00'SB'	56.55'	1067.17	1066.16
212+75.00	212+75.00'SB'	55.26'	1068.42	1066.92
212+50.00	212+50.00'SB'	53.97'	1069.61	1067.94

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEMS	UNIT
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	495 LF
SPV.0090.655	RAILING STEEL R-13-343	490 LF
SPV.0165.651	WALL MODULAR BLOCK GRAVITY R-13-343	2,290 SF

BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608)-266-8489

CONSULTANT CONTACT:
KAREN WALDERA
(715)-834-3161

WISCONSIN
KAREN L. WALDERA
E-39158
TAYLOR
WI
PROFESSIONAL ENGINEER
7-29-19

FOR GENERAL NOTES AND DESIGN DATA SEE SHEET 3

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 08/29/19
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE R-13-343

RETAINING WALL ALONG BIKE PATH 'BC'

COUNTY DANE | ~~TOWN~~/CITY/~~VILLAGE~~ MADISON

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
KLW	ZSS	CLS/ZSS	KLW

RETAINING WALL LAYOUT

SHEET 547 6

I.D. DATE:

8

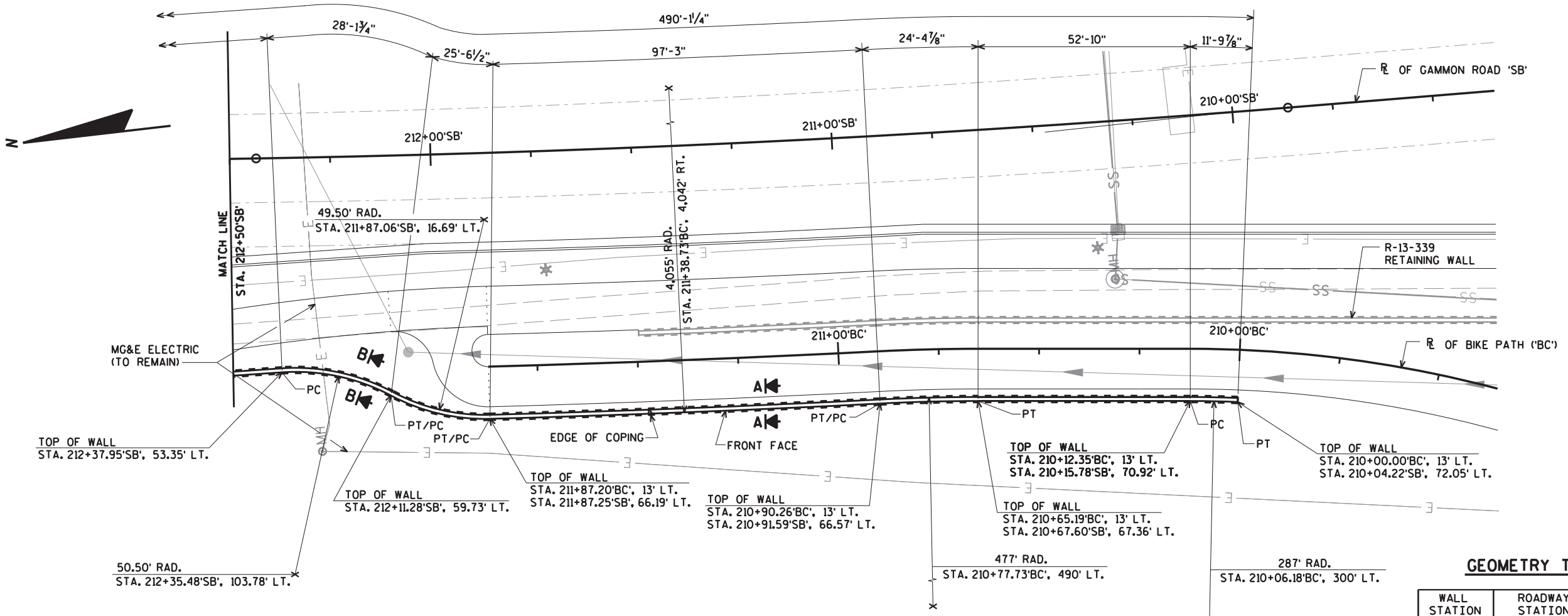
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7/24/2019

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STATE PROJECT NUMBER

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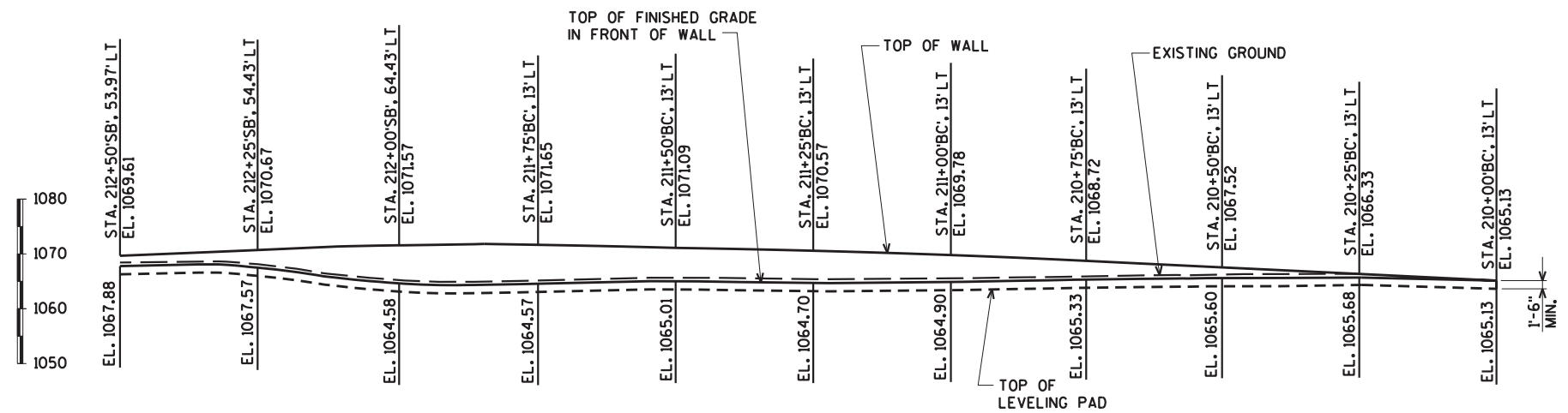


PLAN

ALL DIMENSIONS MEASURED ALONG FRONT FACE
FOR DETAIL OF SECTIONS A & B, SEE SHEET 4

GEOMETRY TABLE

WALL STATION	ROADWAY STATION	OFFSET TO F.F. WALL	TOP OF WALL EL.	FINISHED GRADE EL.
212+50.00	212+50.00'SB'	53.97'	1069.64	1067.88
212+25.00	212+25.00'SB'	54.43'	1070.67	1067.57
212+00.00	212+00.00'SB'	64.43'	1071.57	1064.58
211+75.00	211+75.00'BC'	13'	1071.65	1064.57
211+50.00	211+50.00'BC'	13'	1071.09	1065.01
211+25.00	211+25.00'BC'	13'	1070.57	1064.70
211+00.00	211+00.00'BC'	13'	1069.78	1064.90
210+75.00	210+75.00'BC'	13'	1068.72	1065.33
210+50.00	210+50.00'BC'	13'	1067.52	1065.60
210+25.00	210+25.00'BC'	13'	1066.33	1065.68
210+00.00	210+00.00'BC'	13'	1065.13	1065.13



ELEVATION

(LOOKING AT FRONT FACE OF WALL)

8

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$PRFNAME$
V:±Structures-EC±41-0737.00 - Gammon Road Bike Path - Madison±Structures±Final±Retaining Walls±

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BACK CHECKED BY:
DATE:
CORRECTED BY:

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-343

DRAWN BY CLS/ZSS | PLANS CK'D. KLW

RETAINING WALL LAYOUT

SHEET 2 OF 6
548

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

I.D.

DATE:

7/3/2019

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GENERAL NOTES

THE PLAN QUANTITY FOR THE BID ITEM "WALL MODULAR BLOCK GRAVITY" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

DRAWINGS SHALL NOT BE SCALED.

THE QUANTITY OF CONCRETE MASONRY, COATED REINFORCING STEEL, AND RUBBERIZED MEMBRANE WATERPROOFING FOR THE CAST-IN-PLACE COPING IS INCIDENTAL TO BID ITEM "WALL MODULAR BLOCK GRAVITY".

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL MODULAR BLOCK GRAVITY".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS AND DETAILS COMMON TO ANY WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE RETAINIING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON SHEETS 1 & 2.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AND RAILING AS SHOWN.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 psf.

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY (COPING) ——— f'_c = 3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60) ——— f_y = 60,000 p.s.i.

WALL EXTERNAL & OVERALL STABILITY EVALUATION

DIMENSIONS	EVALUATED LOCATIONS
WALL HEIGHT (FEET)	8.6
EXPOSED WALL HEIGHT (FEET)	7.1
MINIMUM LENGTH OF REINFORCEMENT (FEET) ▪	-
WALL STATION 214+87.86'SB' - 210+00.00'SB'	
BORING USED	#4
CAPACITY TO DEMAND RATIO (CDR)	
SLIDING (CDR>1.0)	1.00
ECCENTRICITY (CDR>1.0)	0.63
OVERALL STABILITY (CDR>1.0) ☆	1.19
BEARING RESISTANCE (CDR>1.0)	1.21
FACTORED BEARING RESISTANCE (psf)	3,295

SOIL PARAMETERS

STRATUM LOCATIONS AND SOIL DESCRIPTIONS	TOTAL UNIT WEIGHT (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PCF)
GRANULAR BACKFILL (REINFORCING ZONE OR BACKFILL)	120	30	0
RETAINED SOIL ⊛	120	30	0
BORING #4			
SAND W/SILT, GRAVEL, COBBLES/BOULDERS EL. 1073.90 - EL. 1052.40 ⊗	120	30	0
SAND, SOME SILT EL. 1052.40 - EL. 1042.90 ⊗	120	32	0
SAND & GRAVEL, SOME SILT BELOW EL. 1042.90 ⊗	130	36	0

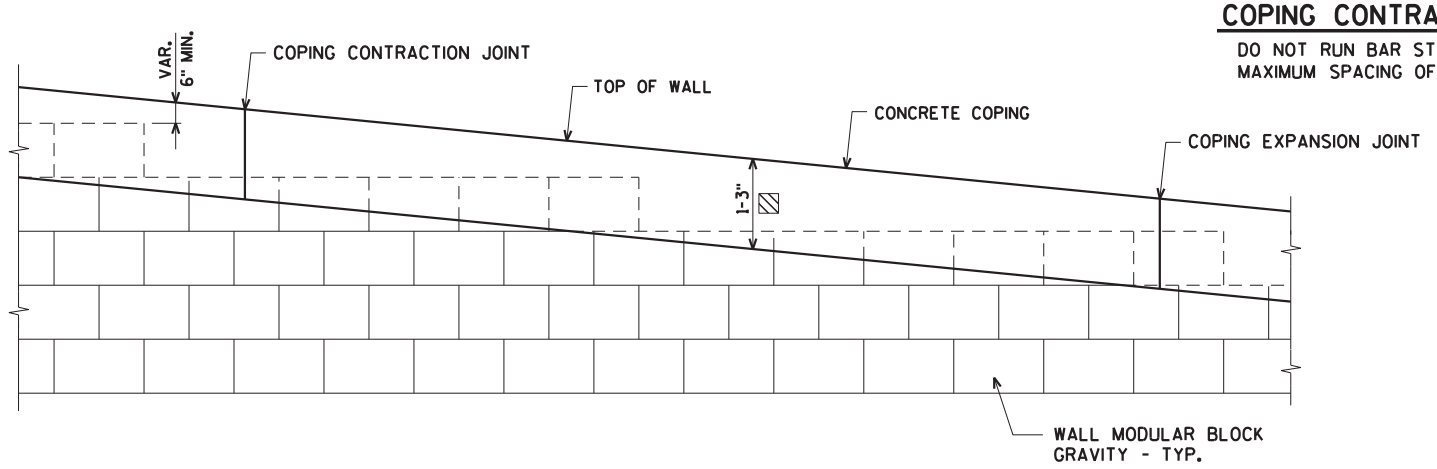
⊛ DESIGN WALL FOR THESE VALUES

NOTES

▪ THE LENGTHS PROVIDED IN THE TABLE ARE THE MINIMUM REQUIRED REINFORCEMENT LENGTHS BASED UPON THE MINIMUM DESCRIBED IN THE WALL SYSTEM SPECIAL PROVISIONS OR EXTERNAL AND OVERALL STABILITY AT THE DESIGNATED LOCATIONS. THESE DESIGNATED LOCATIONS REPRESENT TYPICAL AND CRITICAL WALL LOCATIONS, BUT SHALL NOT BE CONSIDERED ALL INCLUSIVE. THE CONTRACTOR DESIGN LENGTHS SHALL MEET OR EXCEED THE MINIMUM VALUES REPRESENTED IN THE TABLE AT THESE DESIGNATED LOCATIONS.

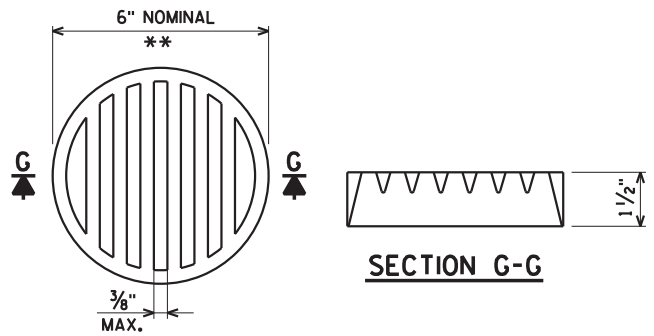
☆ THE LENGTHS PROVIDED IN THE TABLE ARE THE MINIMUM REQUIRED REINFORCMENT LENGTHS BASED ON OVERALL STABILITY PERFORMED BY THE WALL DESIGNER. COMPOUND STABILITY IS THE CONTRACTORS RESPONSIBILITY.

⊗ STRATUM LOCATIONS & SOIL DESCRIPTIONS AT EACH BORING LOCATION.



RETAINING WALL FACE & CONCRETE COPING DETAIL

▨ THIS DIMENSION MAY CHANGE DEPENDING ON HEIGHT OF BLOCKS. THIS DIMENSION TO BE CONSTANT FOR ENTIRE LENGTH OF WALL. MAXIMUM ALLOWABLE HEIGHT OF BLOCKS TO BE 9 INCHES.



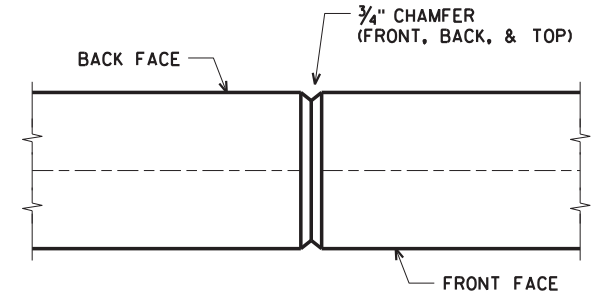
SECTION G-G

** DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

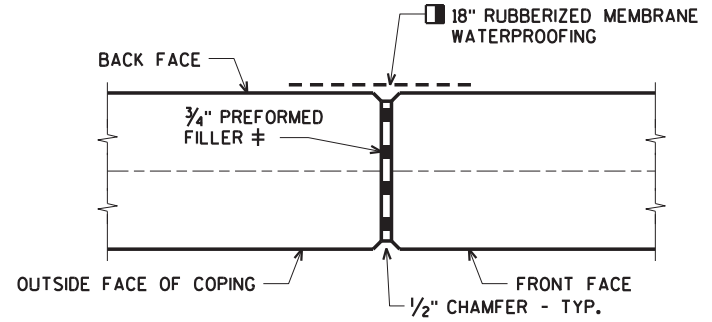
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 x 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

RODENT SHIELD DETAIL



COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT
MAXIMUM SPACING OF JOINT = 12'



COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT
MAXIMUM SPACING OF JOINT = 50'

▪ MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS.

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)

PLACE EXPANSION JOINTS AT EVERY THIRD JOINT AND AT ALL WALL RADIUS PC/PT POINTS AND BEND POINTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-343

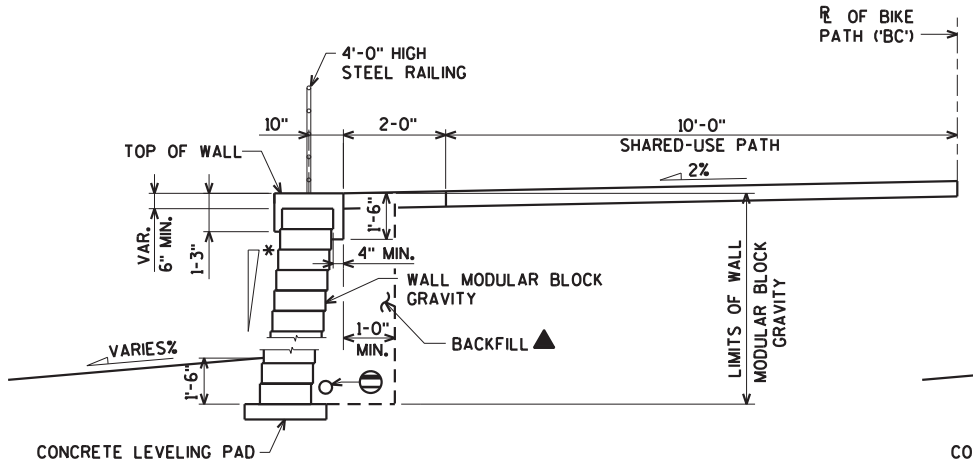
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RETAINING WALL DETAILS

SHEET 3 OF 6
549

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SECTION A-A

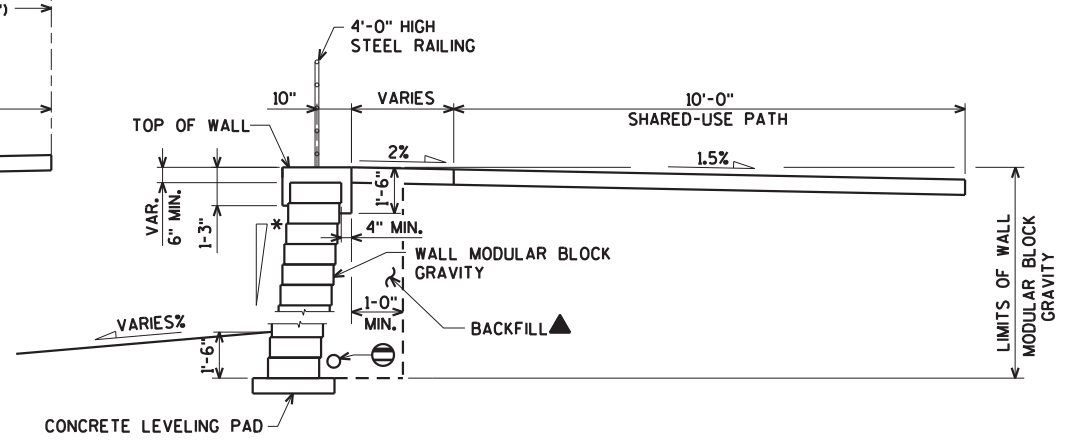
STA. 210+00'BC' TO 211+75'BC'

* SET BLOCK VARIES BY MANUFACTURER, MAX. FRONT FACE FROM VERTICAL BLOCK IS 1 HORIZ. TO 12 VERT.

▲ INCIDENTAL TO BID ITEM "WALL MODULAR BLOCK GRAVITY".

⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 3.

FOR LOCATION OF SECTION A, SEE SHEET 1



SECTION B-B

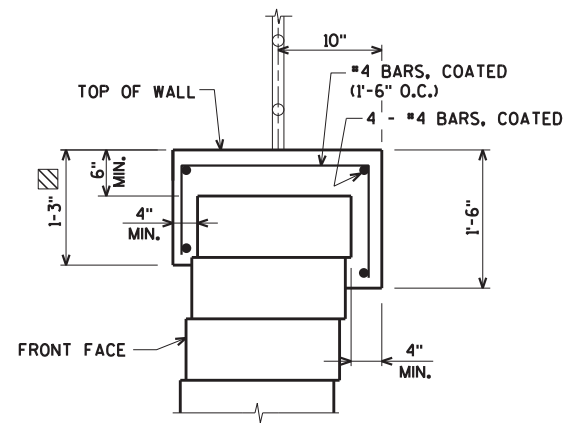
STA. 212+00'SB' TO 214+87.86'SB'

* SET BLOCK VARIES BY MANUFACTURER, MAX. FRONT FACE FROM VERTICAL BLOCK IS 1 HORIZ. TO 12 VERT.

▲ INCIDENTAL TO BID ITEM "WALL MODULAR BLOCK GRAVITY".

⊖ PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 3.

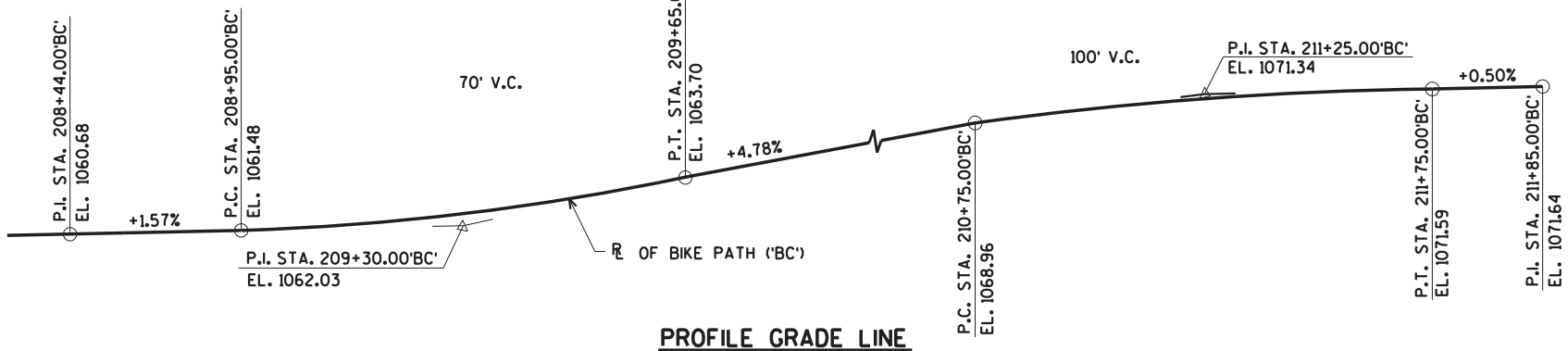
FOR LOCATION OF SECTION B, SEE SHEETS 1 & 2



COPING DETAIL

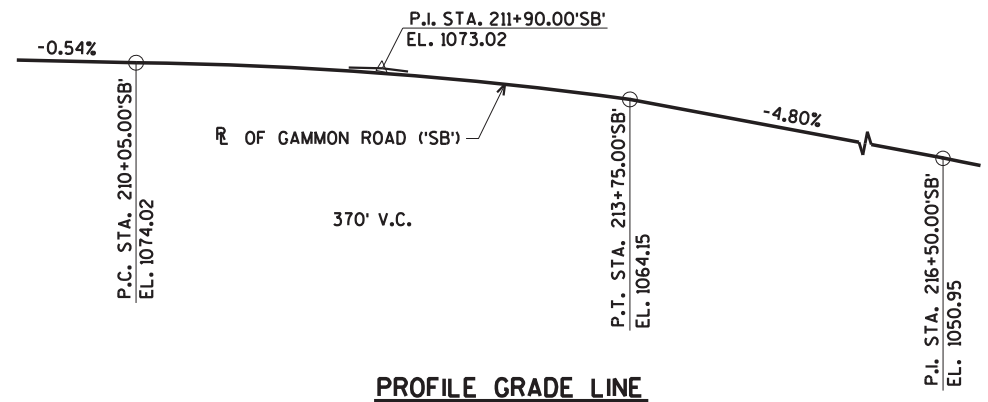
▨ THIS DIMENSION MAY CHANGE DEPENDING ON HEIGHT OF BLOCKS. THIS DIMENSION TO BE CONSTANT FOR ENTIRE LENGTH OF WALL. MAXIMUM ALLOWABLE HEIGHT OF BLOCKS TO BE 9 INCHES.

MAINTAIN 2" MINIMUM COVER ON ALL REBAR.



PROFILE GRADE LINE

(BIKE PATH 'BC')



PROFILE GRADE LINE

(GAMMON ROAD 'SB')

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-343

DRAWN BY CLS/ZSS | PLANS CK'D. KLW

RETAINING WALL DETAILS

SHEET 4 OF 6
550

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

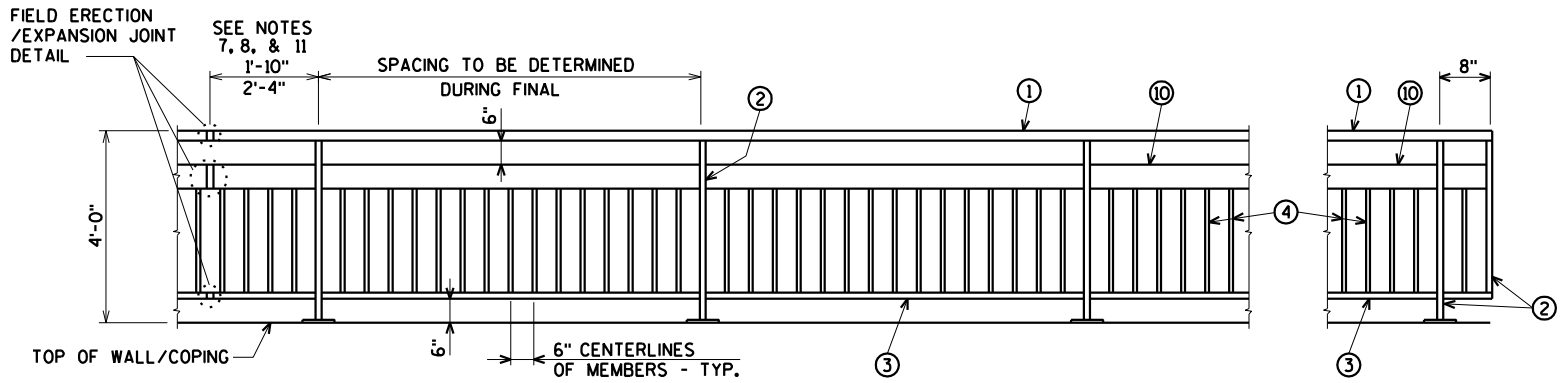
8

8

$PRFNAME$
V:\Structures-EC\41-0737.00 - Gammon Road Bike Path - Madison\Structures\Final\Retaining Walls\R-13-343 SB details.dgn

7/3/2019

PENTABLE:BReau_shd_util.tbl



PART ELEVATION OF RAILING STEEL

END SECTION

LEGEND

(1) 2 ½" DIA. STEEL PIPE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS.

(2) TS 2" x 2" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B. CUT BOTTOM OF POST TO MATCH SLOPE OF TOP OF WALL. HOLD 1/16" ABOVE BASE PLATE TO ALLOW POST AND BASE PLATE TO BE WELDED TOGETHER. PLACE POST VERTICAL AND CENTERED ON BASE PLATE.

(3) TS 1½" x 1½" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.

(4) 1" x 1" BAR CONFORMING TO ASTM DESIGNATION A709 GRADE 36.

(5) BASE PLATE ½" x 7" x 7" CONFORMING TO ASTM DESIGNATION A709 GRADE 36 WITH 11/16" HOLES FOR HEX BOLTS NO. 6. WELD TO NO. 2 AS SHOWN.

(6) CONCRETE MASONRY ANCHORS, TYPE S, ⅝". PULLOUT STRENGTH SHALL BE 3.6 KIPS.

(7) SQUARE SLEEVE FABRICATED FROM ½" COLD DRAWN STEEL ALLOY SQUARE CONFORMING TO ASTM A331 x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE ½" ϕ SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 3. PROVIDE ⅜" DIA. x ½" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

(8) 1½" DIA. STEEL PIPE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE ½" DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 1. PROVIDE ⅜" DIA. x ½" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

(9) 2" DIA. PIPE SLEEVE CONFORMING TO SECTION 506 OF THE STANDARD SPECIFICATIONS. PROVIDE "SLIDING FIT".

(10) TS 6" x 2" x 0.188" STRUCTURAL TUBING CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B.

(11) 1" x 5" SLEEVE CONFORMING TO ASTM DESIGNATION A709 GRADE 36 x 2'-4" LONG AT EXPANSION JOINTS AND 1'-10" LONG AT FIELD JOINTS. PROVIDE ½" DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE IN I.D. OF NO. 10. PROVIDE ⅜" x ½" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

GENERAL NOTES

BID ITEM SHALL BE "RAILING STEEL R-13-343", WHICH INCLUDE ALL ITEMS SHOWN INCLUDING GALVANIZED COATING.

RAILING SHALL BE FABRICATED IN 2 OR 3 PANEL LENGTHS.

POST BASE PLATES NO. 5 SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

ALL MATERIAL EXCEPT ANCHOR BOLTS NO. 6 SHALL BE GALVANIZED AFTER FABRICATION.

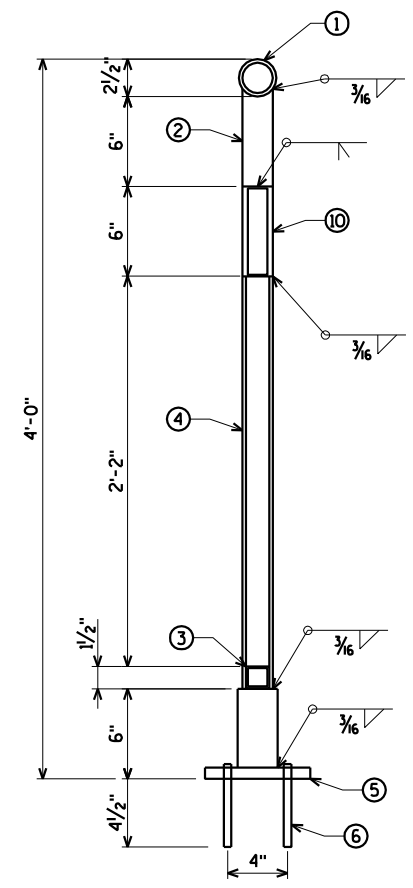
PRIOR TO GALVANIZING ALL STEEL RAILING POSTS, STEEL TUBING, AND STEEL PIPE SHALL BE GIVEN A NO. 6 BLAST CLEANING PER S.S.P.C. SPECIFICATIONS.

VERTICAL MEMBERS SHALL BE PLUMB.

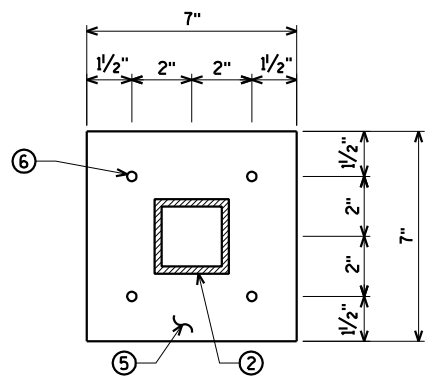
HORIZONTAL MEMBERS SHALL PARALLEL TO GRADE.

PAINT OVER GALVANIZING WITH APPROVED TIE COAT AND TOPCOAT.

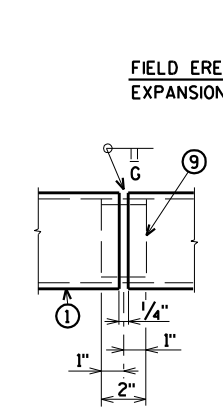
RAILING TO BE PAINTED FEDERAL COLOR NO. 17038 (BLACK).



SECTION THRU RAILING STEEL

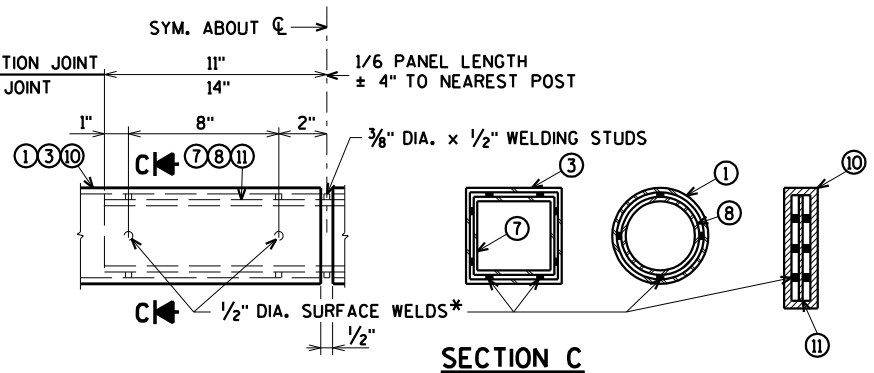


RAILING BASE PLATE



SHOP RAIL SPLICE DETAIL

(LOCATION MUST BE SHOWN ON THE SHOP DRAWINGS)



FIELD ERECTION JOINT DETAIL

*MIN. ⅝" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.

SECTION C

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-343

DRAWN BY CLS/ZSS | PLANS CK'D. KLW

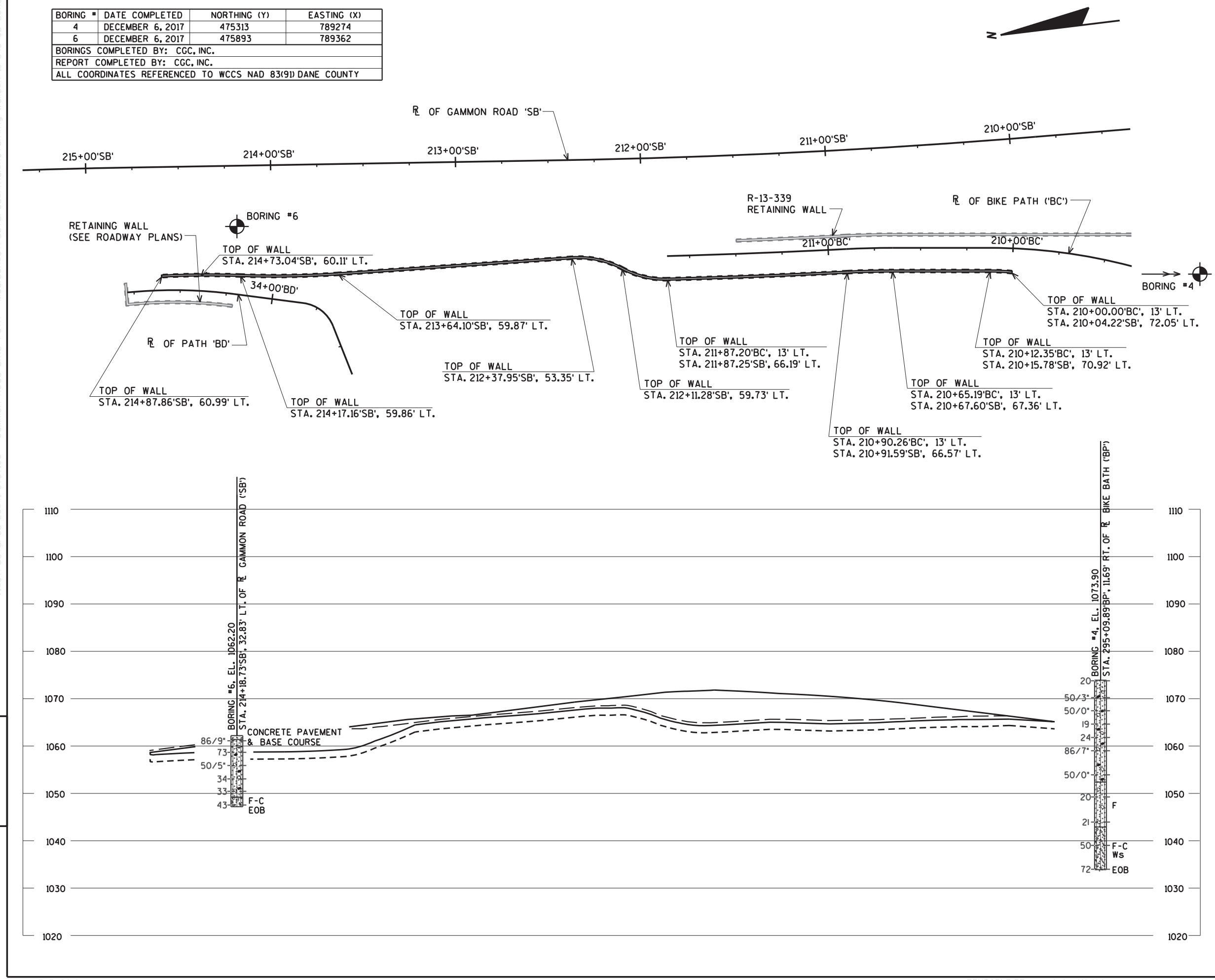
RAILING DETAILS

SHEET 5 OF 6
551

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

$PRFNAME$
U:\41-0737.00 - Gannon Road Bike Path - Madison\Structures\Final\Retaining Walls\R-13-343 SB railing.dgn

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
4	DECEMBER 6, 2017	475313	789274
6	DECEMBER 6, 2017	475893	789362
BORINGS COMPLETED BY: CGC, INC.			
REPORT COMPLETED BY: CGC, INC.			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) DANE COUNTY			



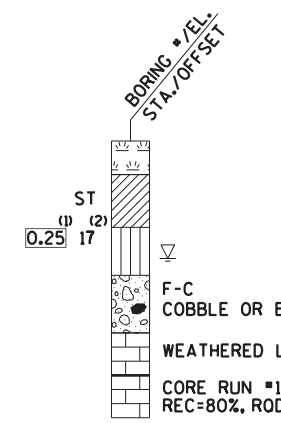
STATE PROJECT NUMBER

5992-10-31

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▼ END OF DRILLING
- ▽ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-343

DRAWN BY CLS/ZSS | PLANS CK'D. KLW

SUBSURFACE EXPLORATION

SHEET 6 OF 6

552

8

8

$PRFNAME$
V:\Structures-EC\41-0737.00 - Gammon Road Bike Path - Madison\Structures\Final\Retaining Walls\R-13-343 SB soils.dgn
7/3/2019
PENTABLE:BReau_shd_util.tbl

PROJECT 5992-10-31
PHASE A - BP

Category	Station 'BP'	Distance	Area (SF) Cut	Area (SF) Unusable Pvmt Material	Area (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Unusable Pvmt Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Volume (CY) Cut 1.00	Cumulative Volume (CY) Expanded Fill 1.30	Mass Ordinate* +/-
0010	294+50		64.41	0.00	8.08						
	294+75	25	132.85	0.00	5.14	91	0	6	91	8	83
	295+00	25	276.42	0.00	1.08	189	0	3	189	4	185
	295+18	18	323.41	0.00	0	205	0	0	205	0	205
	298+25		407.76	0.00	2.16	0	0	0	0	0	0
	298+50	25	421.46	0.00	0.02	384	0	1	384	1	383
	298+75	25	401.62	0.00	0.04	381	0	0	381	0	381
	299+00	25	388.14	0.00	0	366	0	0	366	0	366
	299+25	25	356.16	0.00	0.10	345	0	0	345	0	345
	299+50	25	337.17	0.00	0.12	321	0	0	321	0	321
	299+75	25	312.43	0.00	0.53	301	0	0	301	0	301
	300+00	25	295.70	0.00	0.79	282	0	1	282	1	281
	300+25	25	355.76	0.00	0.61	302	0	1	302	1	301
	300+50	25	321.85	0.00	1.38	314	0	1	314	1	313
	300+75	25	284.80	0.00	0	281	0	1	281	1	280
	301+00	25	222.75	0.00	0	235	0	0	235	0	235
	301+25	25	158.54	0.00	2.03	177	0	1	177	1	176
	301+50	25	90.81	0.00	6.92	115	0	4	115	5	110
	301+75	25	39.26	0.00	9.46	60	0	8	60	10	50
	302+00	25	10.67	0.00	0.76	23	0	5	23	7	16
	302+25	25	3.79	0.00	1.55	7	0	1	7	1	6
	302+50	25	0.19	0.00	7.07	2	0	4	2	5	-3
	302+75	25	0.58	0.00	8.06	0	0	7	0	9	-9
	303+00	25	13.08	0.00	1.57	6	0	4	6	5	1
	303+25	25	9.04	0.00	4.10	10	0	3	10	4	6
	303+50	25	8.13	0.00	5.44	8	0	4	8	5	3
	303+75	25	8.05	0.00	5.28	7	0	5	7	7	0
	304+00	25	5.50	0.00	5.03	6	0	5	6	7	-1
	304+25	25	4.09	0.00	6.26	4	0	5	4	7	-3
	304+50	25	2.91	0.00	7.74	3	0	6	3	8	-5
	304+75	25	6.33	0.00	5.93	4	0	6	4	8	-4
	305+00	25	6.93	0.00	5.96	6	0	6	6	8	-2
	305+25	25	3.88	0.00	5.71	5	0	5	5	7	-2
	305+50	25	2.27	0.00	7.78	3	0	6	3	8	-5

(CONTINUED ON NEXT SHEET)

*Positive quantity indicates excess of material; negative is a shortage of material.

PROJECT 5992-10-31 (Continued)
PHASE A - BP

Category	Station 'BP'	Distance	Area (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Volume (CY)		Mass Ordinate*
			Cut	Unusable Pvmt Material	Fill	Cut	Unusable Pvmt Material	Fill	Cut 1.00	Expanded Fill 1.30	+/-
	305+75	25	4.70	0.00	6.01	3	0	6	3	8	-5
	306+00	25	13.54	0.00	3.06	8	0	4	8	5	3
	306+25	25	29.12	0.00	3.14	20	0	3	20	4	16
	306+50	25	38.36	0.00	0.81	31	0	2	31	3	28
	306+75	25	37.53	0.00	0.03	35	0	0	35	0	35
	307+00	25	46.27	0.00	0.05	39	0	0	39	0	39
	307+25	25	64.71	0.00	0	51	0	0	51	0	51
	307+50	25	76.59	0.00	0	65	0	0	65	0	65
	307+75	25	79.36	0.00	0.05	72	0	0	72	0	72
	308+00	25	88.24	0.00	0.22	78	0	0	78	0	78
	308+25	25	103.30	0.00	0.05	89	0	0	89	0	89
	308+50	25	116.74	0.00	0	102	0	0	102	0	102
	308+75	25	119.01	0.00	0.04	109	0	0	109	0	109
	309+00	25	123.76	0.00	0.03	112	0	0	112	0	112
	309+25	25	127.65	0.00	0	116	0	0	116	0	116
	309+50	25	125.14	0.00	0	117	0	0	117	0	117
	309+75	25	118.33	0.00	0	113	0	0	113	0	113
	310+00	25	105.07	0.00	0	103	0	0	103	0	103
	310+25	25	95.69	0.00	0	93	0	0	93	0	93
	310+50	25	74.51	0.00	0.43	79	0	0	79	0	79
	310+75	25	39.20	0.00	0.75	53	0	1	53	1	52
	311+00	25	52.96	0.00	0.10	43	0	0	43	0	43
	311+25	25	50.89	0.00	0	48	0	0	48	0	48
	311+50	25	75.25	0.00	0	58	0	0	58	0	58
	311+75	25	90.71	0.00	1.15	77	0	1	77	1	76
	312+00	25	95.80	0.00	5.74	86	0	3	86	4	82
	312+25	25	95.93	0.00	8.53	89	0	7	89	9	80
	312+50	25	100.14	0.00	0.55	91	0	4	91	5	86
	312+75	25	40.59	0.00	4.67	65	0	2	65	3	62
	313+00	25	54.74	0.00	2.41	44	0	3	44	4	40
	313+25	25	59.05	0.00	1.47	53	0	2	53	3	50
	313+50	25	60.01	0.00	0	55	0	1	55	1	54
	313+75	25	66.63	0.00	1.28	59	0	1	59	1	58
	314+00	25	19.09	0.00	3.31	40	0	2	40	3	37
	314+25	25	16.51	0.00	0.60	16	0	2	16	3	13
	314+50	25	13.50	0.00	0.02	14	0	0	14	0	14
	314+75	25	0	0.00	0	6	0	0	6	0	6
						6290	0	134			

*Positive quantity indicates excess of material; negative is a shortage of material.

PROJECT 5992-10-31
PHASE A - BD

Category	Station 'BD'	Distance	Area (SF) Cut	Area (SF) Unusable Pvmt Material	Area (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Unusable Pvmt Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Volume (CY) Cut 1.00	Cumulative Volume (CY) Expanded Fill 1.30	Mass Ordinate* +/-
0010	33+50		5.15	0.00	0						
	33+75	25	81.09	0.00	0	40	0	0	40	0	40
	34+00	25	64.16	0.00	0	67	0	0	67	0	67
	34+25	25	44.59	0.00	0	50	0	0	50	0	50
	34+50	25	23.76	0.00	0.28	32	0	0	32	0	32
	34+75	25	7.37	0.00	4.30	14	0	2	14	3	11
	35+00	25	6.42	0.00	9.62	6	0	6	6	8	-2
						209	0	8			

PROJECT 5992-10-31
PHASE A - BC

Category	Station BC'	Distance	Area (SF) Cut	Area (SF) Unusable Pvmt Material	Area (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Unusable Pvmt Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Volume (CY) Cut 1.00	Cumulative Volume (CY) Expanded Fill 1.30	Mass Ordinate* +/-
0010	208+75		240.21	0.00	0						
	209+00	25	183.20	0.00	0	196	0	0	196	0	196
	209+25	25	171.85	0.00	0	164	0	0	164	0	164
	209+50	25	150.56	0.00	0	149	0	0	149	0	149
	209+75	25	121.21	0.00	0	126	0	0	126	0	126
	210+00	25	84.01	0.00	0	95	0	0	95	0	95
	210+25	25	67.20	0.00	0	70	0	0	70	0	70
	210+50	25	41.28	0.00	0.51	50	0	0	50	0	50
	210+75	25	21.69	0.00	6.27	29	0	3	29	4	25
	211+00	25	6.42	0.00	18.62	13	0	12	13	16	-3
	211+25	25	3.46	0.00	34.83	5	0	25	5	33	-28
	211+50	25	3.45	0.00	44.00	3	0	36	3	47	-44
	211+75	25	3.45	0.00	50.35	3	0	44	3	57	-54
						903	0	120			

*Positive quantity indicates excess of material; negative is a shortage of material.

PROJECT 5992-10-31
PHASE A/B - PARKING LOT

Category	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Unusable Pvmt Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Volume (CY) Cut 1.00	Cumulative Volume (CY) Expanded Fill 1.30	Mass Ordinate* +/-
0010	366	-	15	366	19	347
	366	0	15			

PROJECT 5992-10-32
STAGE 1 - SB

Category	Station 'SB'	Distance	Area (SF) Cut	Area (SF) Unusable Pvmt Material	Area (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Unusable Pvmt Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Volume (CY) Cut 1.00	Cumulative Volume (CY) Expanded Fill 1.30	Mass Ordinate* +/-
0010	208+03		90.99	32.40	0.60						
	208+50	47	94.78	33.60	0.75	162	57	1	105	1	104
	209+00	50	130.46	39.00	0.36	209	67	1	142	1	141
	209+50	50	178.00	36.60	1.09	286	70	1	216	1	215
	210+00	50	125.37	34.20	1.85	281	66	3	215	4	211
	210+50	50	114.73	31.80	1.83	222	61	3	161	4	157
	211+00	50	111.90	30.00	1.33	210	57	3	153	4	149
	211+50	50	112.68	30.00	0.79	208	56	2	152	3	149
	212+00	50	120.91	30.60	41.96	216	56	40	160	52	108
	212+50	50	134.07	30.00	2.53	236	56	41	180	53	127
	213+00	50	176.57	28.20	0.44	288	54	3	234	4	230
	213+50	50	165.82	28.20	0.45	317	52	1	265	1	264
	214+00	50	148.21	29.40	0.89	291	53	1	238	1	237
	214+50	50	140.86	31.80	1.81	268	57	3	211	4	207
	215+00	50	132.60	36.60	2.72	253	63	4	190	5	185
	215+50	50	130.18	36.60	3.38	243	68	6	175	8	167
	216+00	50	83.14	27.60	1.79	198	59	5	139	7	132
	216+50	50	77.53	27.60	1.13	149	51	3	98	4	94
	217+00	50	73.33	26.40	0.14	140	50	1	90	1	89
	217+50	50	76.02	34.20	0.00	138	56	0	82	0	82
	218+00	50	79.62	42.00	0.00	144	71	0	73	0	73
	218+50	50	96.95	41.40	5.04	163	77	5	86	7	79
	219+00	50	102.83	41.40	4.50	185	77	9	108	12	96
	219+50	50	93.35	41.40	4.99	182	77	9	105	12	93
	220+00	50	84.85	41.40	4.86	165	77	9	88	12	76
	220+50	50	82.24	38.40	4.93	155	74	9	81	12	69
	221+00	50	86.60	36.00	4.65	156	69	9	87	12	75
	221+50	50	86.17	29.40	5.30	160	61	9	99	12	87
	222+00	50	82.30	23.40	4.26	156	49	9	107	12	95
	222+50	50	77.20	22.80	2.29	148	43	6	105	8	97
	223+00	50	88.57	22.80	0.25	153	42	2	111	3	108
	223+50	50	87.59	22.80	0.62	163	42	1	121	1	120
	224+00	50	87.01	22.80	0.91	162	42	1	120	1	119
	224+50	50	83.97	22.80	0.58	158	42	1	116	1	115
	225+00	50	73.14	30.00	0.00	145	49	1	96	1	95

(CONTINUED ON NEXT SHEET)

*Positive quantity indicates excess of material; negative is a shortage of material.

PROJECT 5992-10-32 (CONTINUED)
STAGE 1 - SB

Category	Station 'SB'	Distance	Area (SF) Cut	Area (SF) Unusable Pvmt Material	Area (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Unusable Pvmt Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Volume (CY) Cut 1.00	Cumulative Volume (CY) Expanded Fill 1.30	Mass Ordinate* +/-
	225+50	50	95.10	39.60	0.00	156	64	0	92	0	92
	226+00	50	112.68	36.00	0.56	192	70	1	122	1	121
	226+50	50	115.90	36.00	0.88	212	67	1	145	1	144
	227+00	50	116.62	36.00	0.71	215	67	1	148	1	147
	227+50	50	118.26	34.80	0.25	217	66	1	151	1	150
	228+00	50	109.47	32.40	0.18	211	62	0	149	0	149
	228+50	50	102.30	29.40	0.20	196	57	0	139	0	139
	229+00	50	95.89	27.00	0.42	184	52	1	132	1	131
	229+50	50	84.26	23.40	1.83	167	47	2	120	3	117
	230+00	50	8.69	1.50	0.75	86	23	2	63	3	60
	230+50	50	8.16	1.50	1.15	16	3	2	13	3	10
	231+00	50	8.26	1.50	1.04	15	3	2	12	3	9
	231+50	50	7.72	1.50	1.02	15	3	2	12	3	9
	231+75	25	0.00	1.50	0.00	4	1	0	3	0	3
						8596	2586	217			

*Positive quantity indicates excess of material; negative is a shortage of material.

PROJECT 5992-10-32
STAGE 1 - MAB

Category	Station 'MAB'	Distance	Area (SF) Cut	Area (SF) Unusable Pvmt Material	Area (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Unusable Pvmt Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Volume (CY) Cut 1.00	Cumulative Volume (CY) Expanded Fill 1.30	Mass Ordinate* +/-
0010	215+65		0.00	12.00	0						
	216+00	35	71.88	12.00	0.01	47	16	0	31	0	31
	216+50	50	107.15	12.00	0	166	22	0	144	0	144
	217+00	50	58.86	0.00	0	154	11	0	143	0	143
	217+43	43	44.95	0.00	0	83	0	0	83	0	83
						450	49	0			

PROJECT 5992-10-32
STAGE 1 - MA

Category	Station 'MA'	Distance	Area (SF) Cut	Area (SF) Unusable Pvmt Material	Area (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Unusable Pvmt Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Volume (CY) Cut 1.00	Cumulative Volume (CY) Expanded Fill 1.30	Mass Ordinate* +/-
0010	798+90		73.99	0.00	0.00						
	799+25	35	84.48	0.00	0.00	103	0	0	103	0	103
	799+50	25	182.01	0.00	0.03	123	0	0	123	0	123
	799+75	25	112.61	56.25	7.36	136	26	3	110	4	106
						362	26	3			

PROJECT 5992-10-32
STAGE 1 - MB

Category	Station 'MB'	Distance	Area (SF) Cut	Area (SF) Unusable Pvmt Material	Area (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Unusable Pvmt Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Volume (CY) Cut 1.00	Cumulative Volume (CY) Expanded Fill 1.30	Mass Ordinate* +/-
0010	898+78		22.32	0.00	0						
	899+00	22	12.21	0.00	2.74	14	0	1	14	1	13
	899+25	25	61.19	0.00	7.28	34	0	5	34	7	27
	899+50	25	167.65	57.75	0	106	27	3	79	4	75
	899+60	10	200.98	69.75	0.09	68	24	0	44	0	44
						222	51	9			

PROJECT 5992-10-32
STAGE 1 - TEMP WIDENING - WBF NORTHSIDE

Category	Station 'NB'	Distance	Area (SF) Cut	Area (SF) Unusable Pvmt Material	Area (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Unusable Pvmt Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Volume (CY) Cut 1.00	Cumulative Volume (CY) Expanded Fill 1.30	Mass Ordinate* +/-
0010	207+50		5.89	1.88	0.14						
	207+75	25	22.17	1.88	0	13	2	0	11	0	11
	208+00	25	88.98	1.88	0	51	2	0	49	0	49
	208+25	25	114.05	1.88	0	94	2	0	92	0	92
	208+50	25	105.72	1.88	0	102	2	0	100	0	100
	208+75	25	102.04	1.88	0	99	2	0	97	0	97
	209+00	25	101.07	1.88	0	94	2	0	92	0	92
	209+25	25	78.95	1.88	0	83	2	0	81	0	81
	209+50	25	80.21	1.88	0	74	2	0	72	0	72
	209+75	25	84.50	1.88	0	76	2	0	74	0	74
	210+00	25	87.48	1.88	0	80	2	0	78	0	78
	210+25	25	92.06	1.88	0	83	2	0	81	0	81
	210+50	25	99.36	1.88	0	89	2	0	87	0	87
	210+75	25	102.84	1.88	0	94	2	0	92	0	92
	211+00	25	107.44	1.88	0	97	2	0	95	0	95
	211+25	25	94.74	1.88	0	94	2	0	92	0	92
	211+50	25	53.62	1.88	0	69	2	0	67	0	67
	211+75	25	26.31	1.88	0	37	2	0	35	0	35
	212+00	25	22.59	1.88	0	23	2	0	21	0	21
	212+25	25	19.83	1.88	0	20	2	0	18	0	18
	212+50	25	17.27	1.88	0	17	2	0	15	0	15
	212+75	25	14.99	1.88	0	15	2	0	13	0	13
	213+00	25	11.93	1.88	0	12	2	0	10	0	10
	213+25	25	9.24	1.88	0	10	2	0	8	0	8
	213+50	25	7.11	1.88	0	8	2	0	6	0	6
						1434	48	0			

*Positive quantity indicates excess of material; negative is a shortage of material.

PROJECT 5992-10-32

STAGE 1 - TEMP WIDENING - WBO SOUTHSIDE

Category	Station 'SB'	Distance	Area (SF) Cut	Area (SF) Unusable Pvmt Material	Area (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Unusable Pvmt Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Volume (CY) Cut 1.00	Cumulative Volume (CY) Expanded Fill 1.30	Mass Ordinate* +/-
0010	205+82		5.29	1.88	1.27						
	206+00	18	8.80	1.88	0.21	5	1	0	4	0	4
	206+25	25	26.31	1.88	0	16	2	0	14	0	14
	206+50	25	62.07	1.88	0	41	2	0	39	0	39
	206+75	25	65.65	1.88	0	59	2	0	57	0	57
	207+00	25	50.49	1.88	0	55	2	0	53	0	53
	207+25	25	7.56	1.88	0	27	2	0	25	0	25
						203	11	0			

*Positive quantity indicates excess of material; negative is a shortage of material.

PROJECT 5992-10-32

STAGE 1 - WBO

Category	Station 'WBO'	Distance	Area (SF) Cut	Area (SF) Unusable Pvmt Material	Area (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Unusable Pvmt Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Volume (CY) Cut 1.00	Cumulative Volume (CY) Expanded Fill 1.30	Mass Ordinate* +/-
0010	399+27		51.25	15.75	0						
	399+50	23	60.58	17.25	0	48	14	0	34	0	34
	400+00	50	80.57	15.75	2.13	131	31	2	100	3	97
	400+50	50	73.02	11.25	1.02	142	25	3	117	4	113
						321	70	5			

PROJECT 5992-10-32

STAGE 1 - REMOVING TEMP WIDENING - WBO SOUTHSIDE

Category	Station 'SB'	Distance	Area (SF) Cut	Area (SF) Unusable Pvmt Material	Area (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Unusable Pvmt Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Volume (CY) Cut 1.00	Cumulative Volume (CY) Expanded Fill 1.30	Mass Ordinate* +/-
0010	205+82		1.27	0.00	5.29						
	206+00	18	0.21	0.00	8.80	0	0	5	0	7	-7
	206+25	25	0.00	0.00	26.31	0	0	16	0	21	-21
	206+50	25	0.00	0.00	62.07	0	0	41	0	53	-53
	206+75	25	0.00	0.00	65.65	0	0	59	0	77	-77
	207+00	25	0.00	0.00	50.49	0	0	55	0	72	-72
	207+25	25	0.00	0.00	7.56	0	0	27	0	35	-35
						0	0	203			

PROJECT 5992-10-32

STAGE 1 - TEMP WIDENING - WBF SOUTHSIDE

Category	Station 'NB'	Distance	Area (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Volume (CY)		Mass Ordinate* +/-
			Cut	Unusable Pvmt Material	Fill	Cut	Unusable Pvmt Material	Fill	Cut 1.00	Expanded Fill 1.30	
0010	206+63		0.00	1.88	0.00						
	207+10	47	7.85	1.88	1.35	7	3	1	4	1	3
	207+25	15	11.13	1.88	0.00	5	1	0	4	0	4
	207+50	25	21.12	1.88	0.00	15	2	0	13	0	13
	207+75	25	119.78	1.88	0.00	65	2	0	63	0	63
	208+00	25	136.14	1.88	0.00	86	2	0	84	0	84
	208+25	25	114.64	1.88	0.00	116	2	0	114	0	114
	208+50	25	86.05	1.88	0.00	93	2	0	91	0	91
	208+75	25	59.63	1.88	0.00	67	2	0	65	0	65
	209+00	25	37.82	1.88	0.23	45	2	0	43	0	43
	209+25	25	21.71	1.88	0.98	28	2	1	26	1	25
						527	20	2			

*Positive quantity indicates excess of material; negative is a shortage of material.

PROJECT 5992-10-32
STAGE 2 - NB

Category	Station 'NB'	Distance	Area (SF) Cut	Area (SF) Unusable Pvmt Material	Area (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Unusable Pvmt Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Volume (CY) Cut 1.00	Cumulative Volume (CY) Expanded Fill 1.30	Mass Ordinate* +/-
0010	208+07		77.95	26.78	0.00						
	208+50	43	75.00	22.58	0.50	122	39	0	83	0	83
	209+00	50	68.24	20.48	0.00	133	40	0	93	0	93
	209+50	50	73.81	20.48	15.76	132	38	15	94	20	74
	210+00	50	79.74	21.53	20.84	142	39	34	103	44	59
	210+50	50	85.72	21.53	31.71	153	40	49	113	64	49
	211+00	50	102.02	20.48	35.14	174	39	62	135	81	54
	211+50	50	107.63	20.48	10.29	194	38	42	156	55	101
	212+00	50	120.74	19.95	0.74	211	37	10	174	13	161
	212+50	50	122.26	19.95	0.75	225	37	1	188	1	187
	213+00	50	123.51	22.05	0.31	228	39	1	189	1	188
	213+50	50	114.23	27.30	0.00	220	46	0	174	0	174
	214+00	50	106.97	31.50	0.01	205	54	0	151	0	151
	214+50	50	102.11	33.08	0.93	194	60	1	134	1	133
	215+00	50	96.25	33.60	1.46	184	62	2	122	3	119
	215+50	50	94.25	33.08	1.74	176	62	3	114	4	110
	216+00	50	89.67	33.60	1.84	170	62	3	108	4	104
	216+50	50	92.21	33.60	1.18	168	62	3	106	4	102
	217+00	50	91.22	33.60	0.15	170	62	1	108	1	107
	217+50	50	70.89	26.78	0.00	150	56	0	94	0	94
	218+00	50	64.81	19.95	0.00	126	43	0	83	0	83
	218+50	50	57.27	19.95	1.06	113	37	1	76	1	75
	219+00	50	56.81	19.95	0.35	106	37	1	69	1	68
	219+50	50	60.03	19.95	0.78	108	37	1	71	1	70
	220+00	50	69.26	19.95	0.85	120	37	2	83	3	80
	220+50	50	67.40	19.95	0.96	127	37	2	90	3	87
	221+00	50	66.59	19.95	0.92	124	37	2	87	3	84
	221+50	50	66.15	21.00	1.97	123	38	3	85	4	81
	222+00	50	76.39	24.15	1.48	132	42	3	90	4	86
	222+50	50	91.27	25.73	0.88	155	46	2	109	3	106
	223+00	50	91.83	25.73	0.26	170	48	1	122	1	121
	223+50	50	90.46	25.73	0.28	169	48	1	121	1	120
	224+00	50	90.54	25.73	0.03	168	48	0	120	0	120
	224+50	50	87.63	25.73	0.12	165	48	0	117	0	117
	225+00	50	67.71	23.10	0.00	144	45	0	99	0	99

(CONTINUED ON NEXT SHEET)

*Positive quantity indicates excess of material; negative is a shortage of material.

PROJECT 5992-10-32 (CONTINUED)
STAGE 2 - NB

Category	Station 'NB'	Distance	Area (SF) Cut	Area (SF) Unusable Pvmt Material	Area (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Unusable Pvmt Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Volume (CY) Cut 1.00	Cumulative Volume (CY) Expanded Fill 1.30	Mass Ordinate* +/-
	225+50	50	66.70	19.95	0.00	124	40	0	84	0	84
	226+00	50	68.33	19.95	0.51	125	37	0	88	0	88
	226+50	50	68.30	19.95	0.73	127	37	1	90	1	89
	227+00	50	67.80	19.95	0.50	126	37	1	89	1	88
	227+50	50	76.42	19.95	0.01	134	37	0	97	0	97
	228+00	50	83.44	19.95	0.07	148	37	0	111	0	111
	228+50	50	90.28	20.48	0.07	161	37	0	124	0	124
	229+00	50	26.16	4.20	0.27	108	23	0	85	0	85
	229+50	50	24.98	6.30	0.15	47	10	0	37	0	37
	229+60	10	24.59	6.83	0.12	9	2	0	7	0	7
						6510	1837	248			

*Positive quantity indicates excess of material; negative is a shortage of material.

PROJECT 5992-10-32
STAGE 2 - GP

Category	Station 'GP'	Distance	Area (SF) Cut	Area (SF) Unusable Pvmt Material	Area (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Unusable Pvmt Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Volume (CY) Cut 1.00	Cumulative Volume (CY) Expanded Fill 1.30	Mass Ordinate* +/-
0010	600+28		138.87	33.75	0.89						
	600+50	22	110.59	0.00	0.09	102	14	0	88	0	88
	600+73	23	108.09	0.00	0.02	93	0	0	93	0	93
						195	14	0			

PROJECT 5992-10-32
STAGE 2 - OD

Category	Station 'OD'	Distance	Area (SF) Cut	Area (SF) Unusable Pvmt Material	Area (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Unusable Pvmt Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Volume (CY) Cut 1.00	Cumulative Volume (CY) Expanded Fill 1.30	Mass Ordinate* +/-
0010	500+30		200.00	75.75	2.08						
	500+50	20	192.28	59.25	0	145	50	1	95	1	94
	500+72	22	147.79	0.00	0	139	24	0	115	0	115
						284	74	1			

PROJECT 5992-10-32
STAGE 3 - NB

Category	Station 'NB'	Distance	Area (SF) Cut	Area (SF) Unusable Pvmt Material	Area (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Unusable Pvmt Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Volume (CY) Cut 1.00	Cumulative Volume (CY) Expanded Fill 1.30	Mass Ordinate* +/-
0010	208+10		33.41	11.48	0.00						
	208+50	40	32.14	9.68	0.22	49	16	0	33	0	33
	209+00	50	29.25	8.78	0.00	57	17	0	40	0	40
	209+50	50	31.63	8.78	6.75	56	16	6	40	8	32
	210+00	50	34.17	9.23	8.93	61	17	15	44	20	24
	210+50	50	36.74	9.23	13.59	66	17	21	49	27	22
	211+00	50	43.72	8.78	15.06	74	17	27	57	35	22
	211+50	50	46.13	8.78	4.41	83	16	18	67	23	44
	212+00	50	51.75	8.55	0.32	91	16	4	75	5	70
	212+50	50	52.40	8.55	0.32	96	16	1	80	1	79
	213+00	50	52.93	9.45	0.13	98	17	0	81	0	81
	213+50	50	48.96	11.70	0.00	94	20	0	74	0	74
	214+00	50	45.84	13.50	0.00	88	23	0	65	0	65
	214+50	50	43.76	14.18	0.40	83	26	0	57	0	57
	215+00	50	41.25	14.40	0.63	79	26	1	53	1	52
	215+50	50	40.39	14.18	0.75	76	26	1	50	1	49
	216+00	50	38.43	14.40	0.79	73	26	1	47	1	46
	216+50	50	39.52	14.40	0.51	72	27	1	45	1	44
	217+00	50	39.09	14.40	0.07	73	27	1	46	1	45
	217+50	50	30.38	11.48	0.00	64	24	0	40	0	40
	218+00	50	27.78	8.55	0.00	54	19	0	35	0	35
	218+50	50	24.54	8.55	0.46	48	16	0	32	0	32
	219+00	50	24.35	8.55	0.15	45	16	1	29	1	28
	219+50	50	25.73	8.55	0.33	46	16	0	30	0	30
	220+00	50	29.68	8.55	0.37	51	16	1	35	1	34
	220+50	50	28.89	8.55	0.41	54	16	1	38	1	37
	221+00	50	28.54	8.55	0.40	53	16	1	37	1	36
	221+50	50	28.35	9.00	0.84	53	16	1	37	1	36
	222+00	50	32.74	10.35	0.64	57	18	1	39	1	38
	222+50	50	39.11	11.03	0.38	67	20	1	47	1	46
	223+00	50	39.35	11.03	0.11	73	20	0	53	0	53
	223+50	50	38.77	11.03	0.12	72	20	0	52	0	52
	224+00	50	38.80	11.03	0.01	72	20	0	52	0	52
	224+50	50	37.56	11.03	0.05	71	20	0	51	0	51
	225+00	50	29.02	9.90	0.00	62	19	0	43	0	43

(CONTINUED ON NEXT SHEET)

*Positive quantity indicates excess of material; negative is a shortage of material.

PROJECT 5992-10-32 (CONTINUED)
STAGE 3 - NB

Category	Station 'NB'	Distance	Area (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Volume (CY)		Mass Ordinate*
			Cut	Unusable Pvmt Material	Fill	Cut	Unusable Pvmt Material	Fill	Cut 1.00	Expanded Fill 1.30	+/-
	225+50	50	28.59	8.55	0.00	53	17	0	36	0	36
	226+00	50	29.28	8.55	0.22	54	16	0	38	0	38
	226+50	50	29.27	8.55	0.31	54	16	0	38	0	38
	227+00	50	29.06	8.55	0.21	54	16	0	38	0	38
	227+50	50	32.75	8.55	0.00	57	16	0	41	0	41
	228+00	50	35.76	8.55	0.03	63	16	0	47	0	47
	228+50	50	38.69	8.78	0.03	69	16	0	53	0	53
	229+00	50	11.21	1.80	0.11	46	10	0	36	0	36
	229+50	50	10.71	2.70	0.06	20	4	0	16	0	16
	229+60	10	10.54	2.93	0.05	4	1	0	3	0	3
						2785	786	104			

PROJECT 5992-10-32
STAGE 3 - REMOVING TEMP WIDENING - WBF SOUTHSIDE

Category	Station 'NB'	Distance	Area (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Volume (CY)		Mass Ordinate*
			Cut	Unusable Pvmt Material	Fill	Cut	Unusable Pvmt Material	Fill	Cut 1.00	Expanded Fill 1.30	+/-
0010	206+63		0.00	0	0.00						
	207+10	47	1.35	0	7.85	1	0	7	1	9	-8
	207+25	15	0.00	0	11.13	0	0	5	0	7	-7
	207+50	25	0.00	0	21.12	0	0	15	0	20	-20
	207+75	25	0.00	0	119.78	0	0	65	0	85	-85
	208+00	25	0.00	0	136.14	0	0	86	0	112	-112
	208+25	25	0.00	0	114.64	0	0	116	0	151	-151
	208+50	25	0.00	0	86.05	0	0	93	0	121	-121
	208+75	25	0.00	0	59.63	0	0	67	0	87	-87
	209+00	25	0.23	0	37.82	0	0	45	0	59	-59
	209+25	25	0.98	0	21.71	1	0	28	1	36	-35
						2	0	527			

*Positive quantity indicates excess of material; negative is a shortage of material.

PROJECT 5992-10-32
STAGE 3 - SB

Category	Station 'SB'	Distance	Area (SF) Cut	Area (SF) Unusable Pvmt Material	Area (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Unusable Pvmt Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Volume (CY) Cut 1.00	Cumulative Volume (CY) Expanded Fill 1.30	Mass Ordinate* +/-
0010	208+10		22.75	8.10	0.15						
	208+50	40	23.70	8.40	0.19	34	12	0	22	0	22
	209+00	50	32.61	9.75	0.09	52	17	0	35	0	35
	209+50	50	151.28	9.15	0.27	170	18	0	152	0	152
	210+00	50	31.34	8.55	0.46	169	16	1	153	1	152
	210+50	50	28.68	7.95	0.46	56	15	1	41	1	40
	211+00	50	27.98	7.50	0.33	52	14	1	38	1	37
	211+50	50	28.17	7.50	0.20	52	14	0	38	0	38
	212+00	50	30.23	7.65	10.49	54	14	10	40	13	27
	212+50	50	33.52	7.50	0.63	59	14	10	45	13	32
	213+00	50	44.14	7.05	0.11	72	13	1	59	1	58
	213+50	50	41.46	7.05	0.11	79	13	0	66	0	66
	214+00	50	37.05	7.35	0.22	73	13	0	60	0	60
	214+50	50	35.21	7.95	0.45	67	14	1	53	1	52
	215+00	50	33.15	9.15	0.68	63	16	1	47	1	46
	215+50	50	32.54	9.15	0.84	61	17	1	44	1	43
	216+00	50	20.78	6.90	0.45	49	15	1	34	1	33
	216+50	50	19.38	6.90	0.28	37	13	1	24	1	23
	217+00	50	18.33	6.60	0.03	35	13	0	22	0	22
	217+50	50	19.00	8.55	0.00	35	14	0	21	0	21
	218+00	50	19.91	10.50	0.00	36	18	0	18	0	18
	218+50	50	24.24	10.35	1.26	41	19	1	22	1	21
	219+00	50	25.71	10.35	1.13	46	19	2	27	3	24
	219+50	50	23.34	10.35	1.25	45	19	2	26	3	23
	220+00	50	21.21	10.35	1.21	41	19	2	22	3	19
	220+50	50	20.56	9.60	1.23	39	18	2	21	3	18
	221+00	50	21.65	9.00	1.16	39	17	2	22	3	19
	221+50	50	21.54	7.35	1.33	40	15	2	25	3	22
	222+00	50	20.58	5.85	1.07	39	12	2	27	3	24
	222+50	50	19.30	5.70	0.57	37	11	2	26	3	23
	223+00	50	22.14	5.70	0.06	38	11	1	27	1	26
	223+50	50	21.90	5.70	0.15	41	11	0	30	0	30
	224+00	50	21.75	5.70	0.23	40	11	0	29	0	29
	224+50	50	20.99	5.70	0.15	40	11	0	29	0	29
	225+00	50	18.28	7.50	0.00	36	12	0	24	0	24

(CONTINUED ON NEXT SHEET)

*Positive quantity indicates excess of material; negative is a shortage of material.

PROJECT 5992-10-32 (CONTINUED)
STAGE 3 - SB

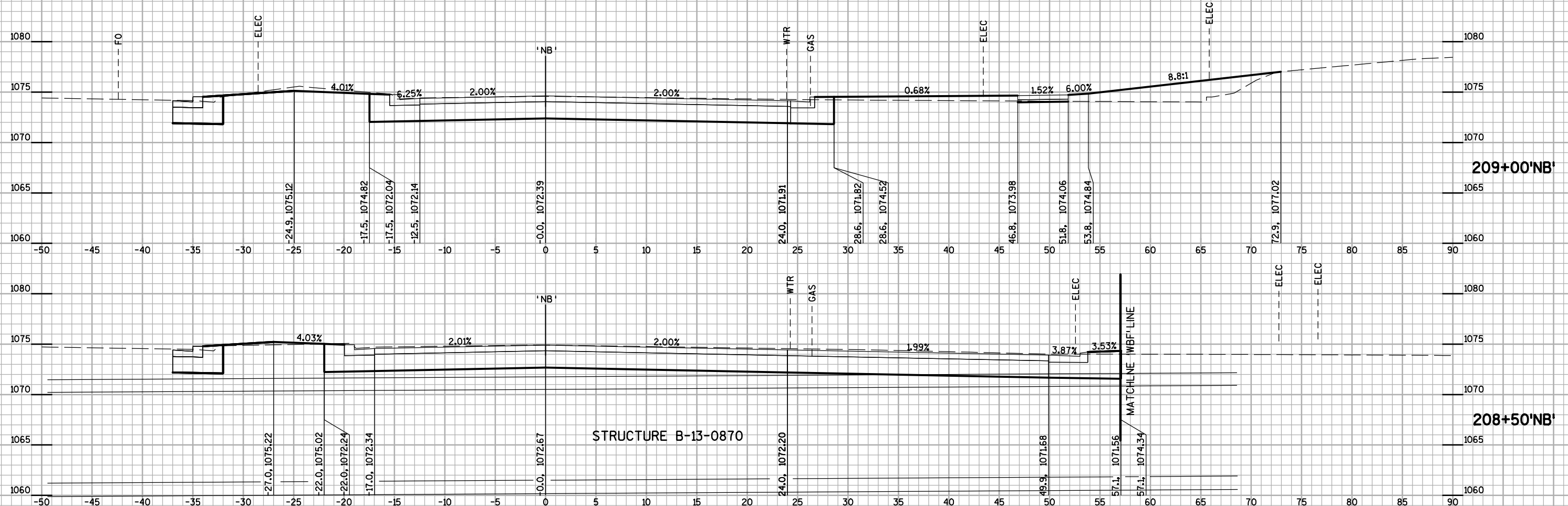
Category	Station 'SB'	Distance	Area (SF) Cut	Area (SF) Unusable Pvmt Material	Area (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Unusable Pvmt Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Volume (CY) Cut 1.00	Cumulative Volume (CY) Expanded Fill 1.30	Mass Ordinate* +/-
	225+50	50	23.78	9.90	0.00	39	16	0	23	0	23
	226+00	50	28.17	9.00	0.14	48	18	0	30	0	30
	226+50	50	28.97	9.00	0.22	53	17	0	36	0	36
	227+00	50	29.16	9.00	0.18	54	17	0	37	0	37
	227+50	50	29.56	8.70	0.06	54	16	0	38	0	38
	228+00	50	27.37	8.10	0.04	53	16	0	37	0	37
	228+50	50	25.57	7.35	0.05	49	14	0	35	0	35
	229+00	50	23.97	6.75	0.10	46	13	0	33	0	33
	229+50	50	21.06	5.85	0.46	42	12	1	30	1	29
	230+00	50	2.17	0.38	0.19	22	6	1	16	1	15
	230+50	50	2.04	0.38	0.29	4	1	0	3	0	3
	231+00	50	2.06	0.38	0.26	4	1	1	3	1	2
	231+50	50	1.93	0.38	0.25	4	1	0	3	0	3
	231+75	25	0.00	0.38	0.00	1	0	0	1	0	1
						2340	646	50			

*Positive quantity indicates excess of material; negative is a shortage of material.

PROJECT 5992-10-32
STAGE 3 - WBF

Category	Station 'WBF'	Distance	Area (SF) Cut	Area (SF) Unusable Pvmt Material	Area (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Unusable Pvmt Material	Incremental Vol (CY) (Unadjusted) Fill	Cumulative Volume (CY) Cut 1.00	Cumulative Volume (CY) Expanded Fill 1.30	Mass Ordinate* +/-
0010	195+00		22.00	6.00	33.65						
	195+50	50	79.32	23.25	47.67	94	27	75	67	98	-31
	196+00	50	88.51	22.50	43.68	155	42	85	113	111	2
	196+50	50	72.28	25.50	24.71	149	44	63	105	82	23
	197+00	50	37.91	21.75	0.91	102	44	24	58	31	27
	197+58	58	21.41	11.25	0.23	64	35	1	29	1	28
						564	192	248			

STA. 208+10 TO 209+00'NB'



9

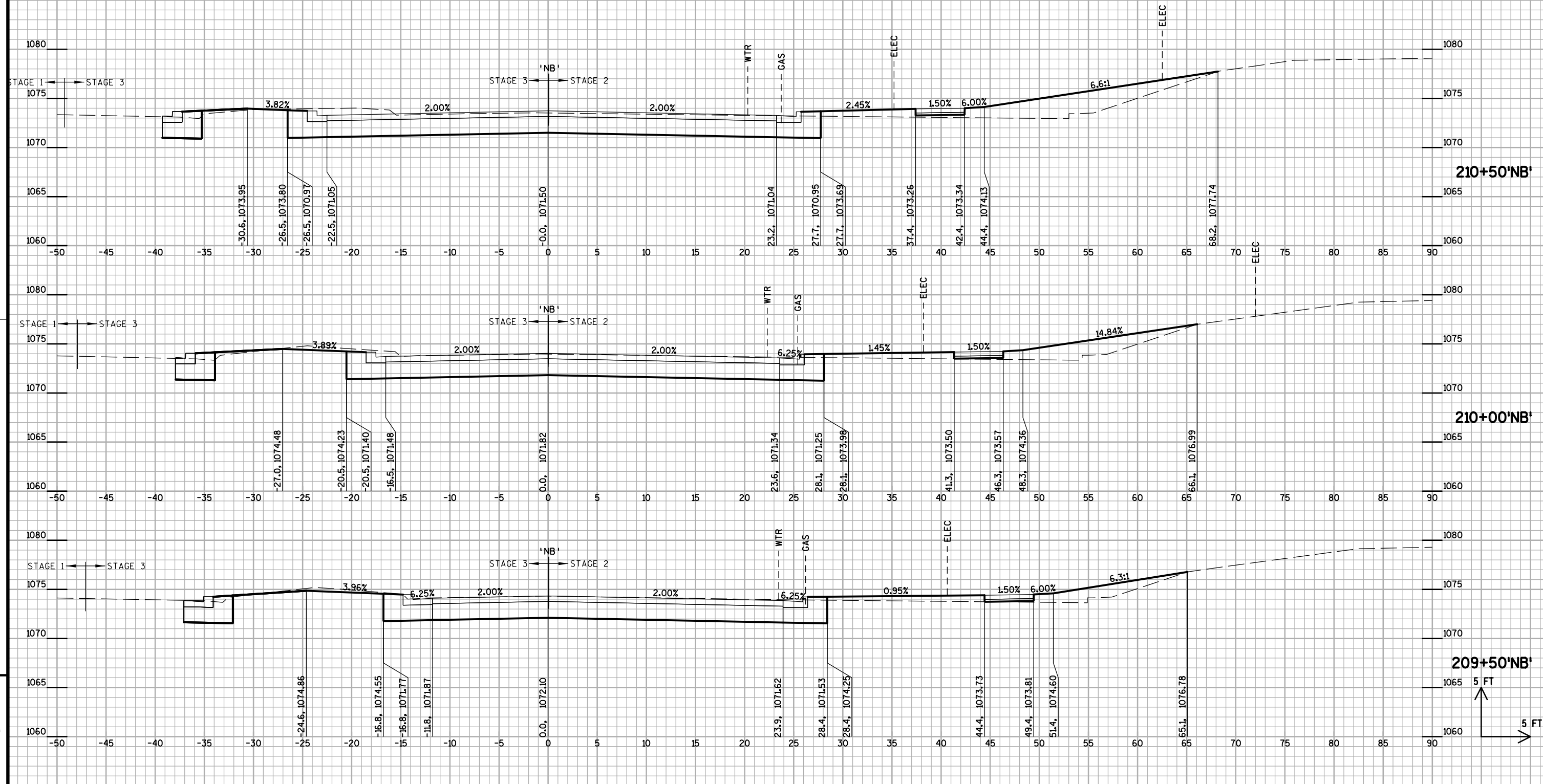
9

PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'NB' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090201_XS_NB Gammon.dgn PLOT DATE : 8/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 209+50'NB' TO 210+50'NB'

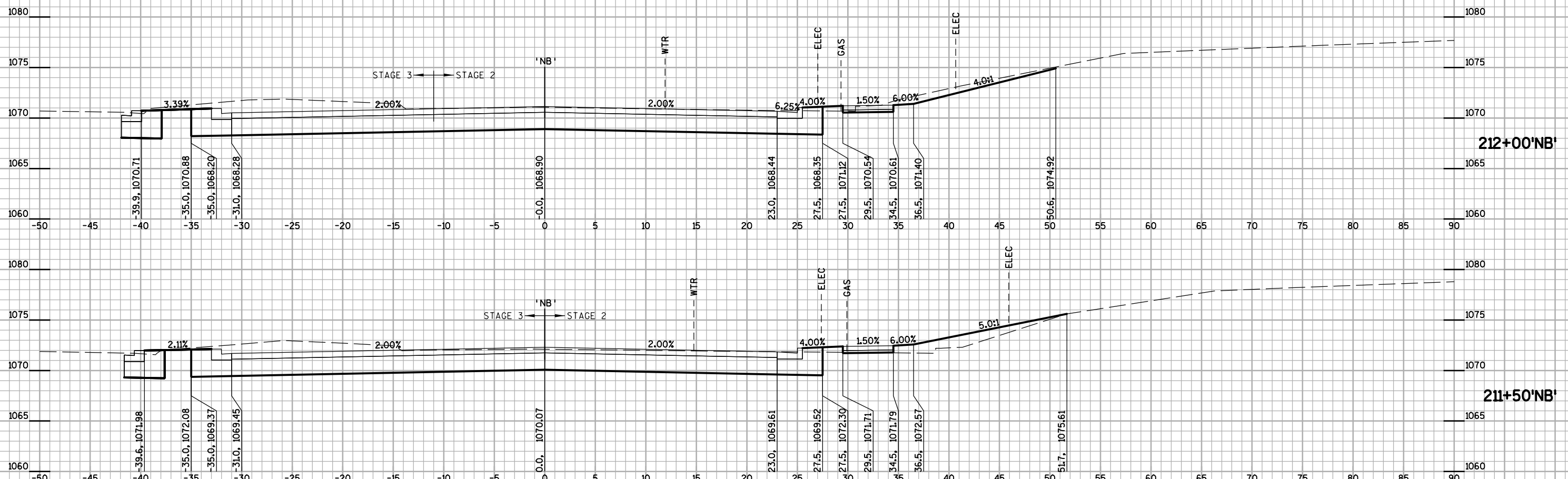


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'NB' LINE	SHEET 568	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090201_XS_NB Gammon.dgn | PLOT DATE : 8/1/2019 | PLOT BY : kk226 | PLOT NAME : | PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 211+00'NB' TO 212+00'NB'

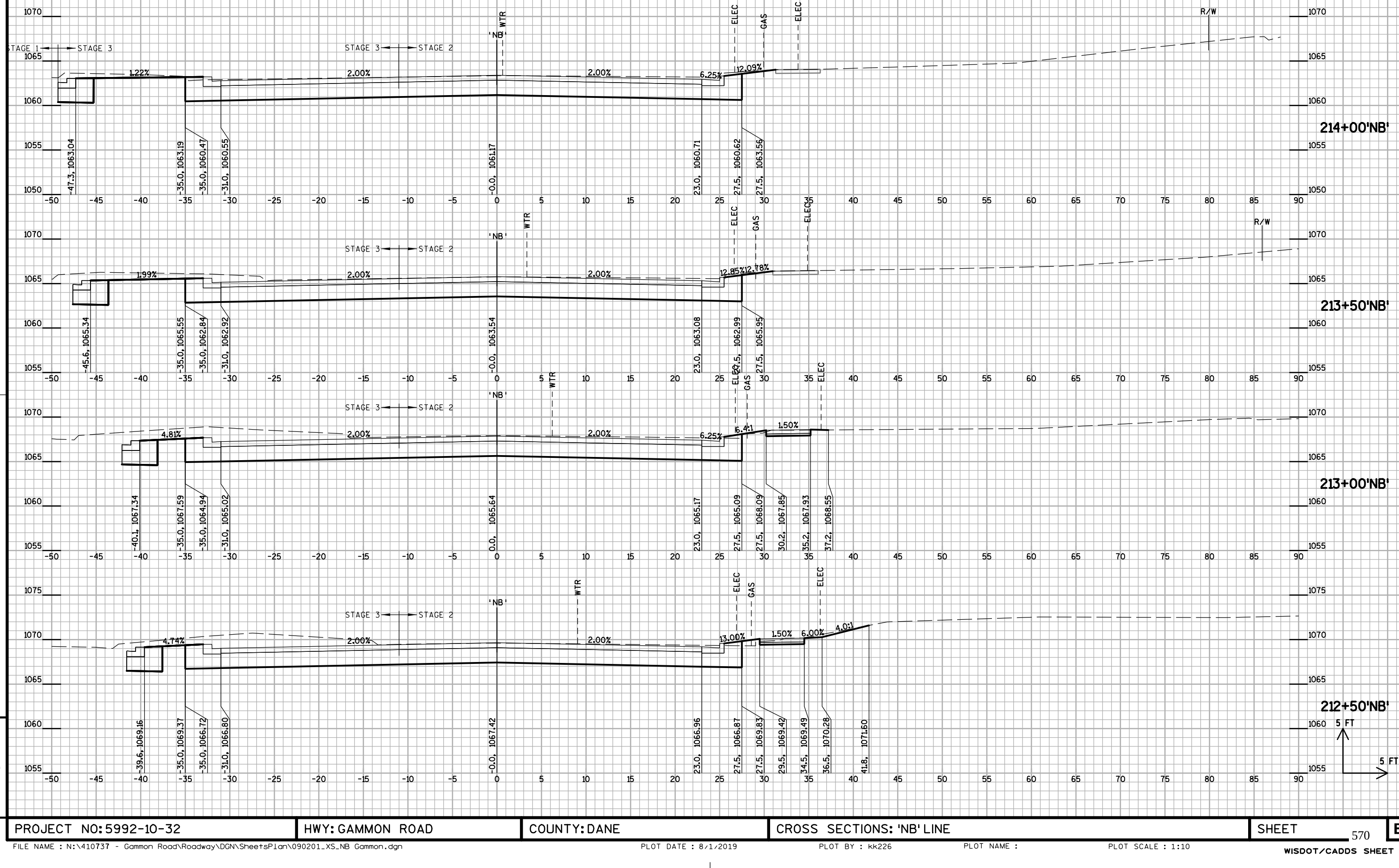


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'NB' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090201_XS_NB Gammon.dgn PLOT DATE : 8/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 212+50'NB' TO 214+00'NB'

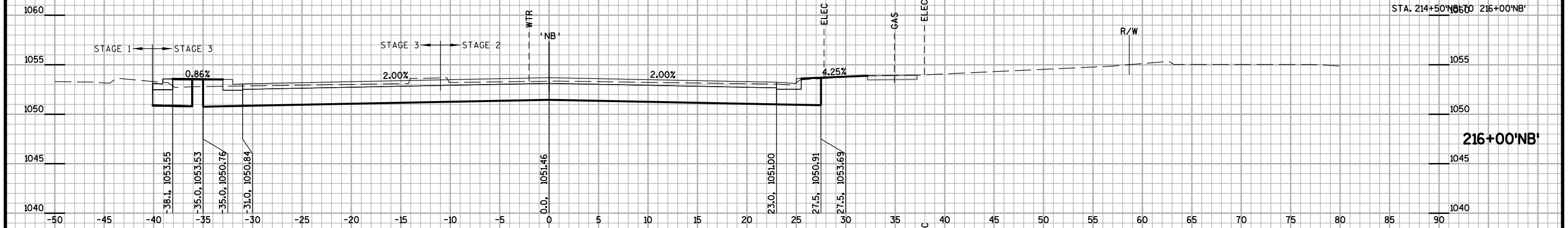


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'NB' LINE	SHEET 570	E

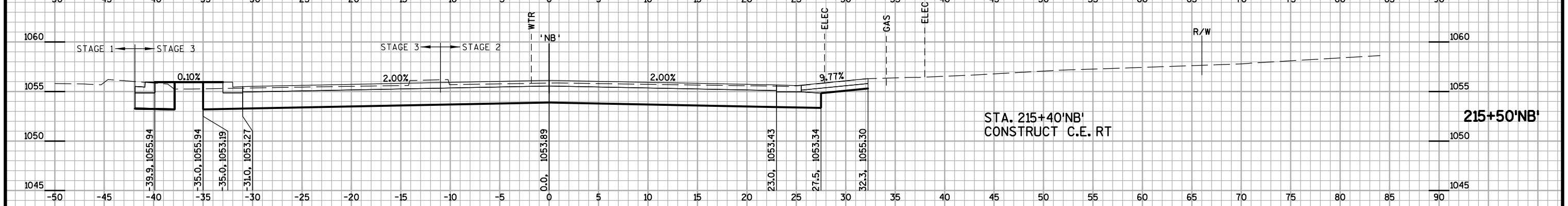
FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090201_XS_NB Gammon.dgn PLOT DATE : 8/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 214+50'NB' TO 216+00'NB'

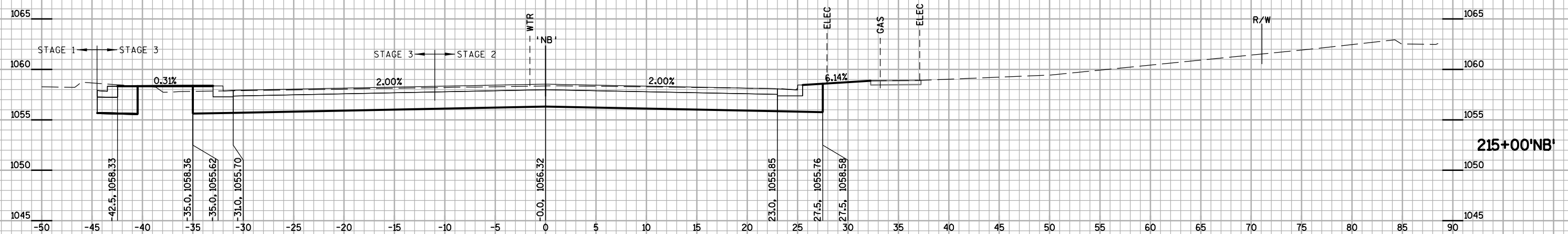


216+00'NB'

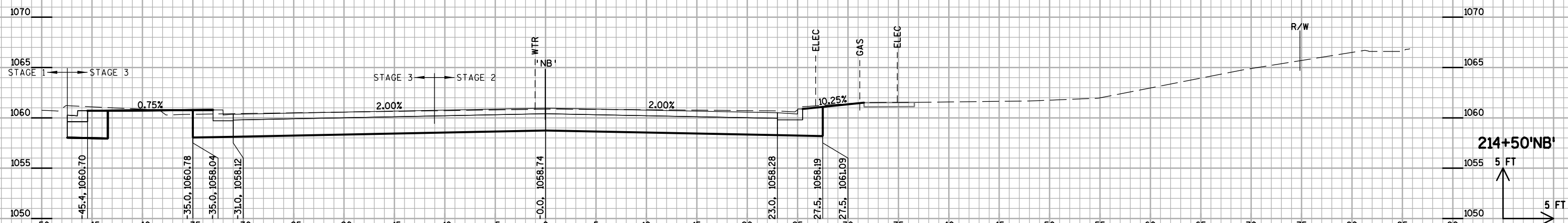


STA. 215+40'NB'
CONSTRUCT C.E. RT

215+50'NB'



215+00'NB'



214+50'NB'

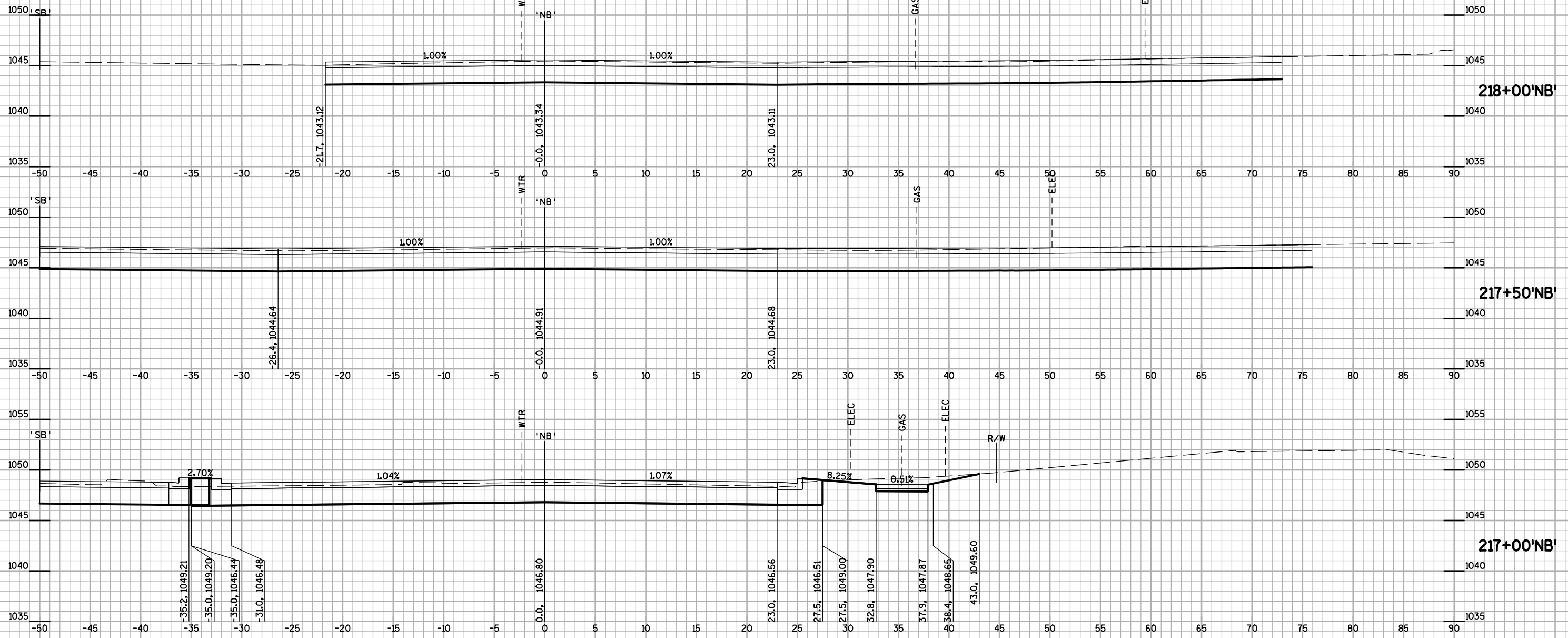
5 FT
5 FT

9

9

PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'NB' LINE	SHEET 571	E

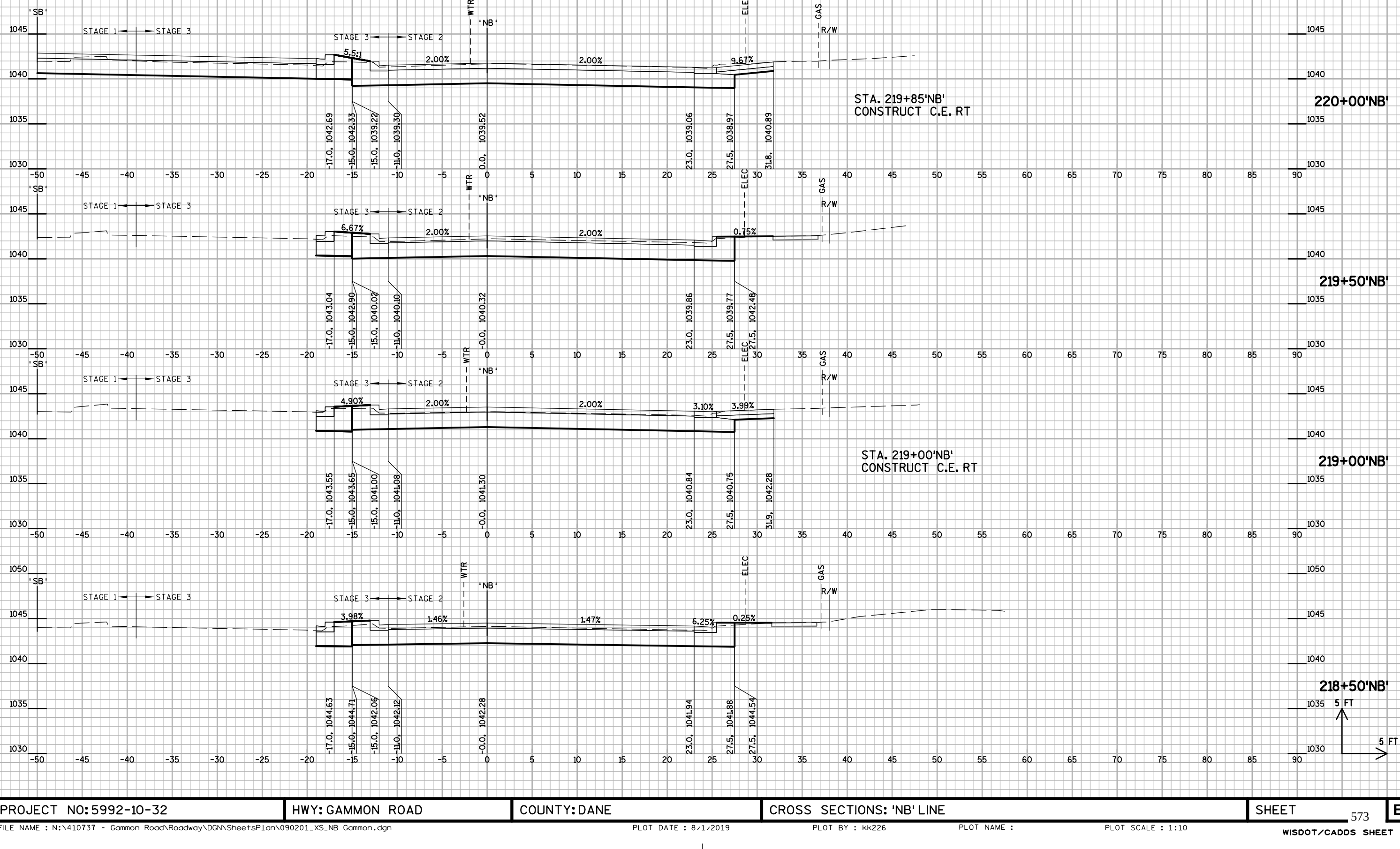
STA. 216+50'NB' TO 218+00'NB'



PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'NB' LINE	SHEET 572	E

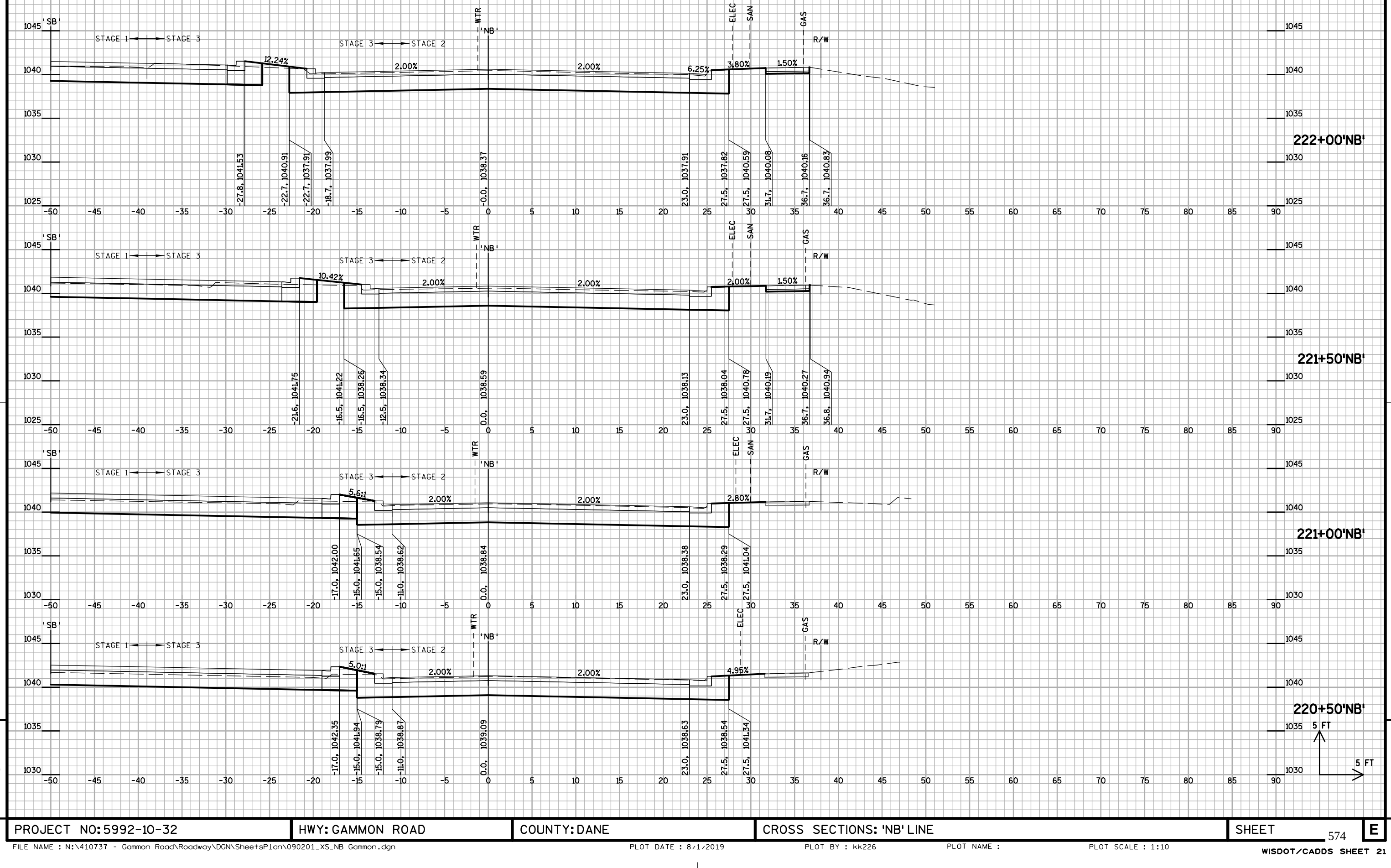
FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090201_XS_NB Gammon.dgn PLOT DATE : 8/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21



PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'NB' LINE	SHEET 573	E

STA. 220+50'NB' TO 222+00'NB'

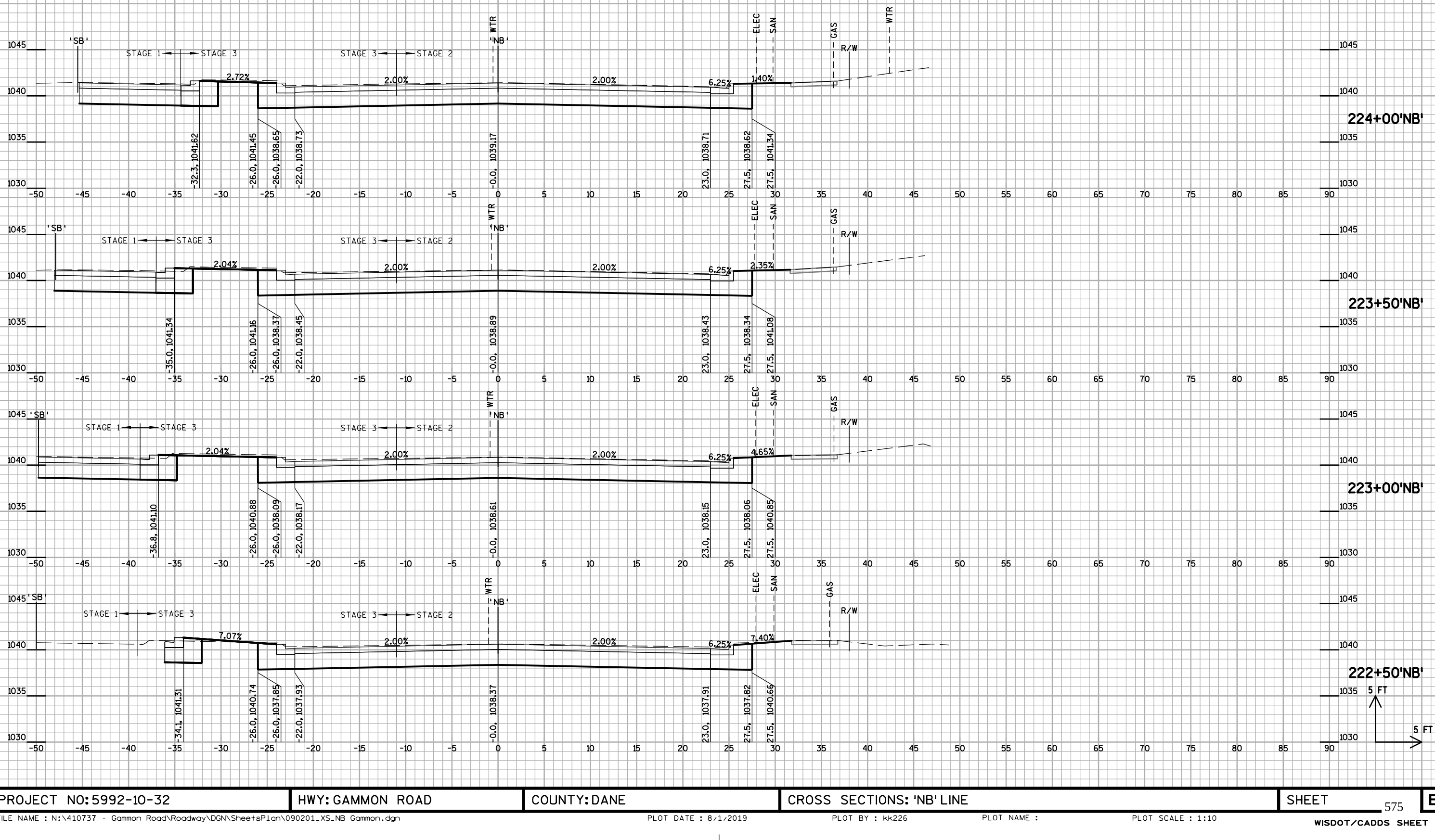


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'NB' LINE	SHEET 574	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090201_XS_NB Gammon.dgn | PLOT DATE : 8/1/2019 | PLOT BY : kk226 | PLOT NAME : | PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 222+50'NB' TO 224+00'NB'

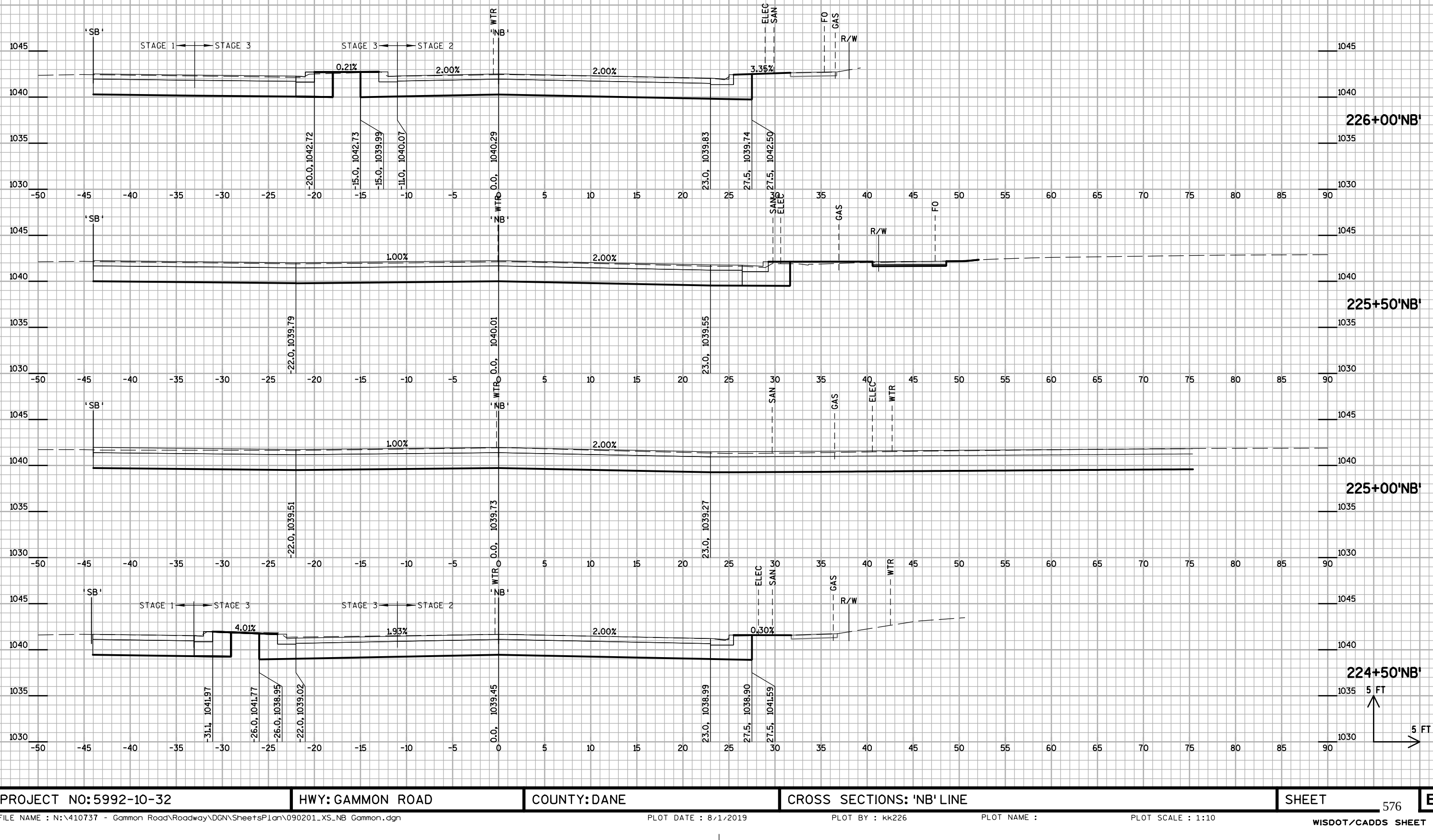


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'NB' LINE	SHEET 575	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090201_XS_NB Gammon.dgn PLOT DATE : 8/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 224+50'NB' TO 226+00'NB'

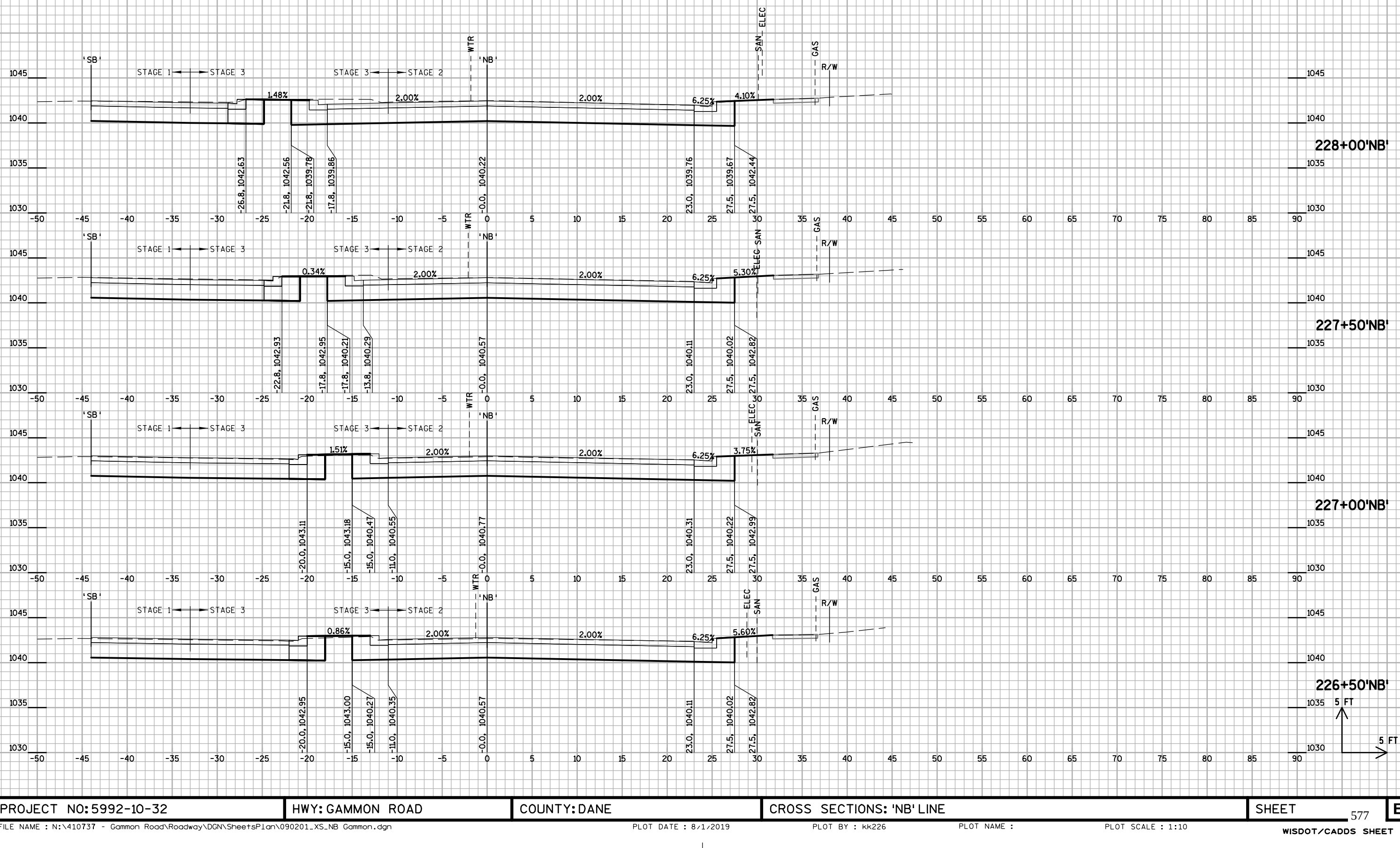


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'NB' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090201_XS_NB Gammon.dgn PLOT DATE : 8/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 226+50'NB' TO 228+00'NB'

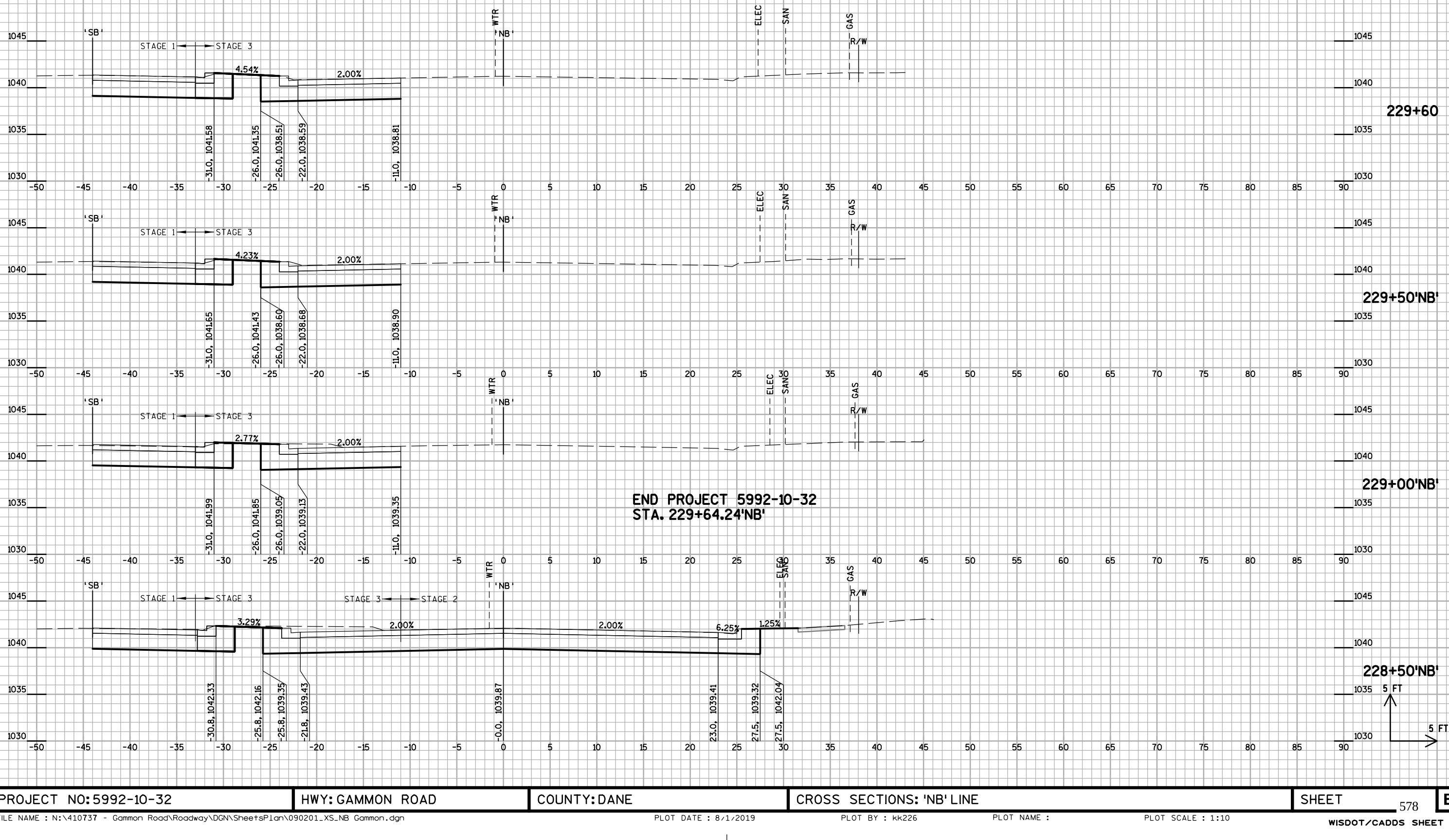


9

9

PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'NB' LINE	SHEET 577	E

STA. 228+50'NB' TO 229+60

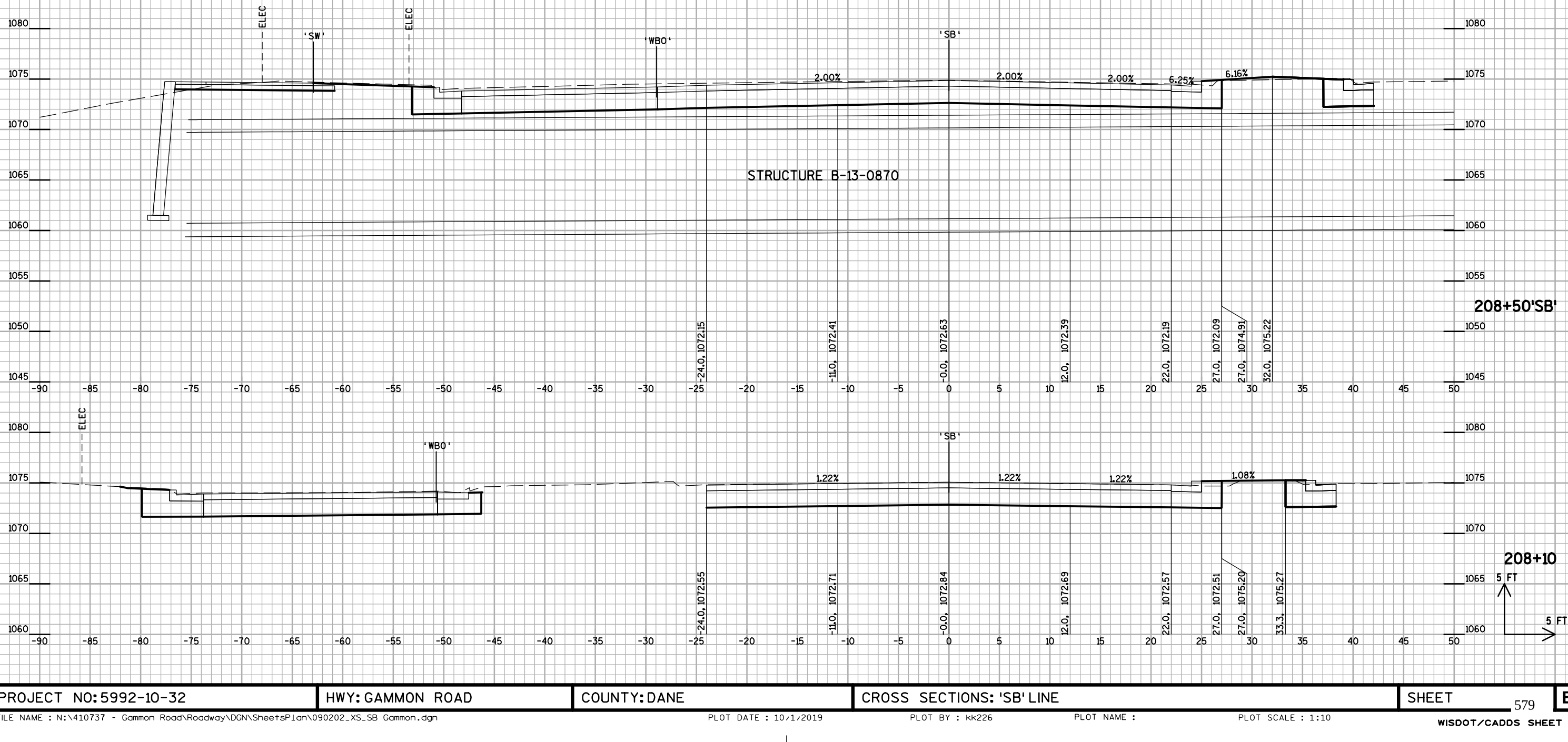


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'NB' LINE	SHEET 578	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090201_XS_NB Gammon.dgn PLOT DATE : 8/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 208+10 TO 208+50'SB'



9

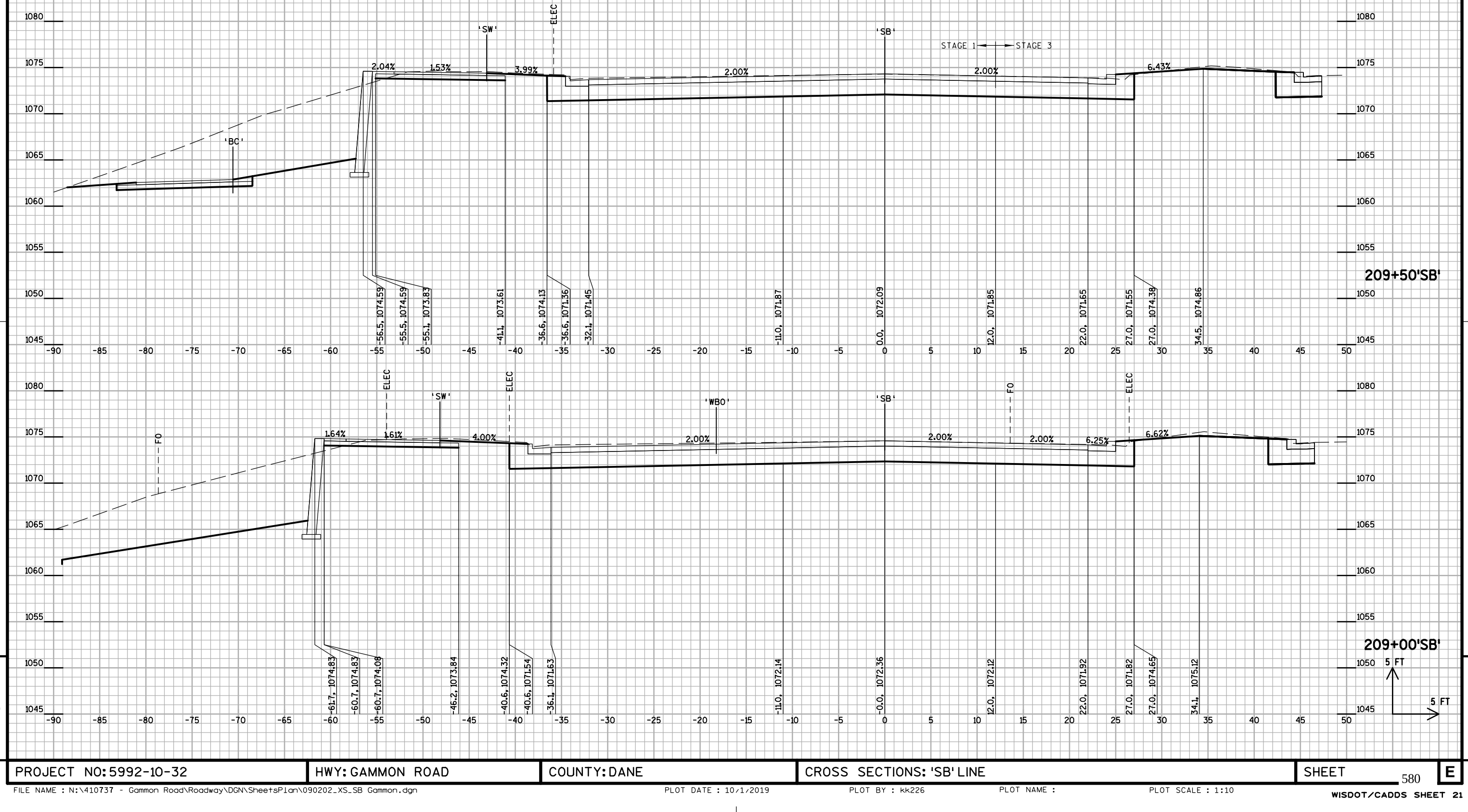
9

PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'SB' LINE	SHEET 579	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090202_XS_SB Gammon.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

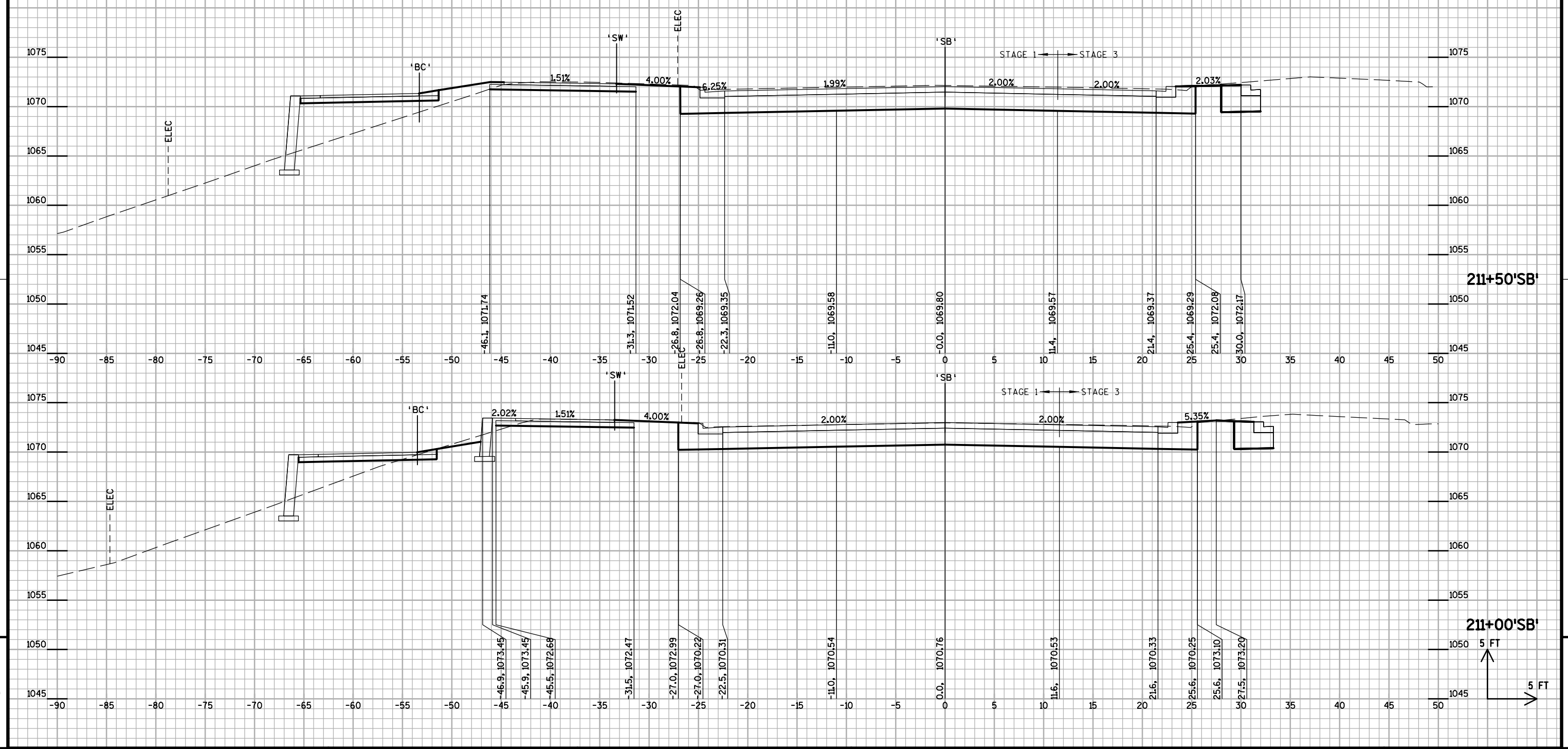
WISDOT/CADDS SHEET 21

STA. 209+00'SB' TO 209+50'SB'



PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'SB' LINE	SHEET 580	E

STA. 211+00'SB' TO 211+50'SB'



9

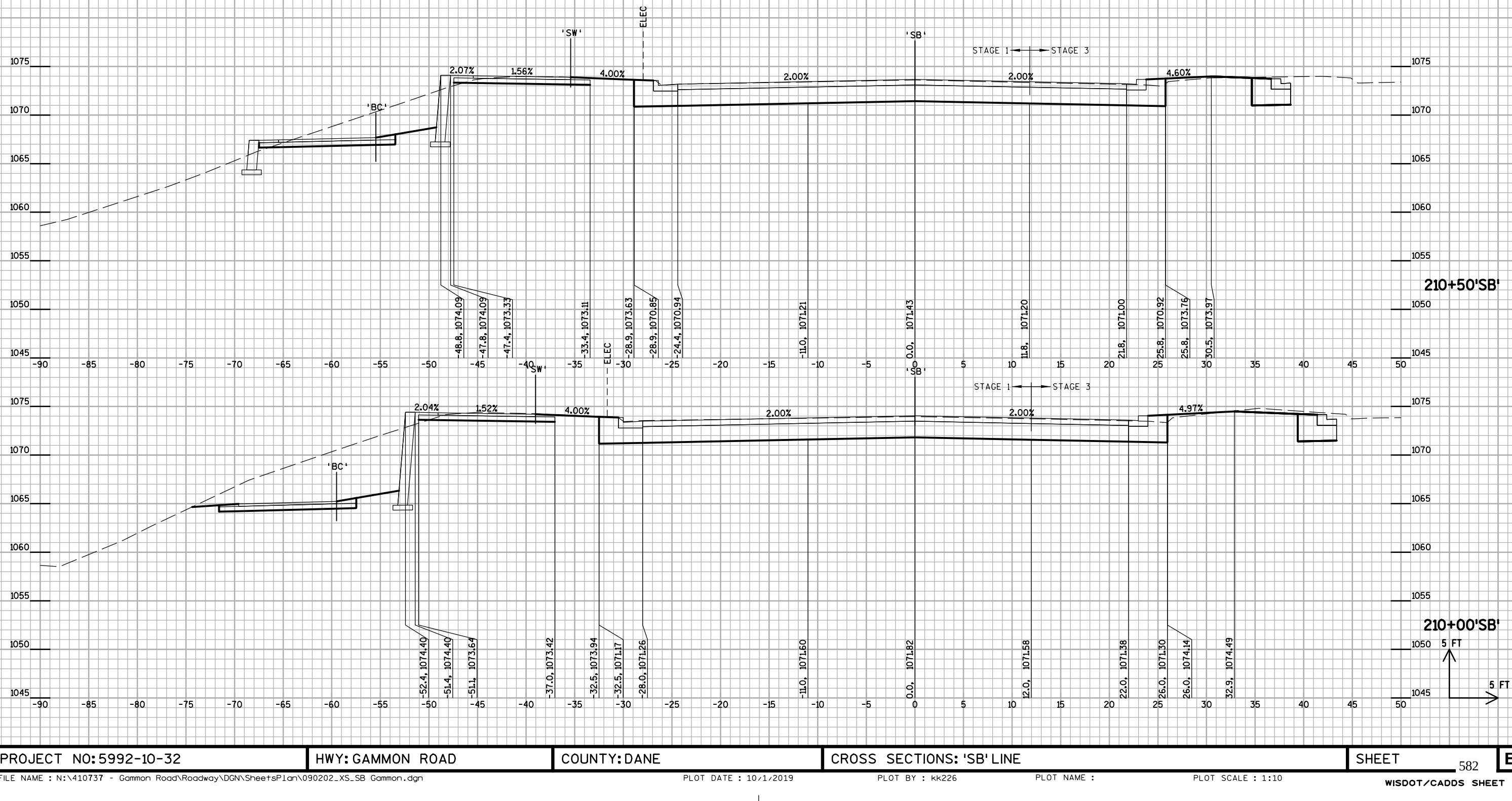
9

PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'SB' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090202_XS_SB Gammon.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 210+00'SB' TO 210+50'SB'

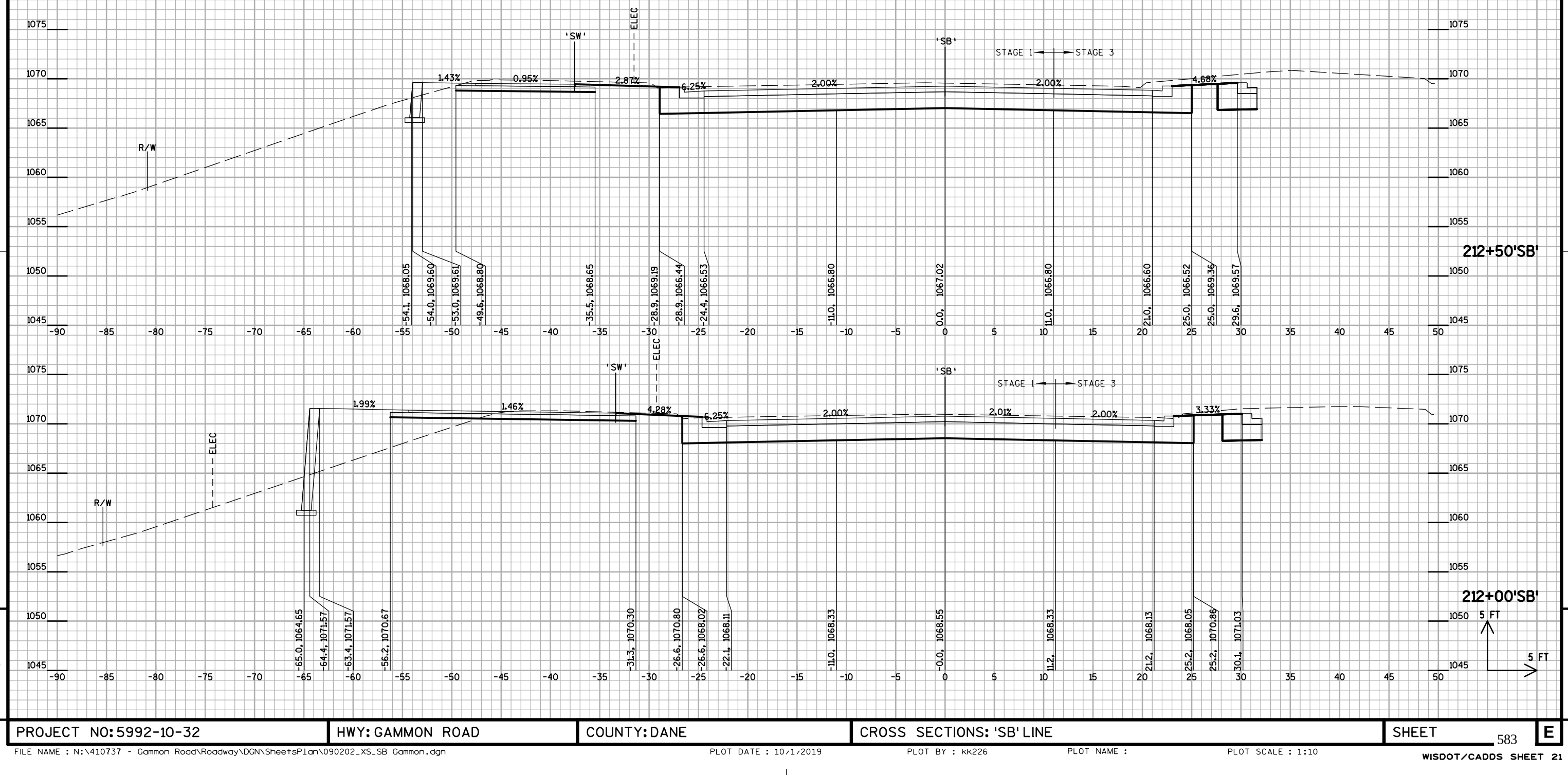


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'SB' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090202_XS_SB Gammon.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 212+00'SB' TO 212+50'SB'

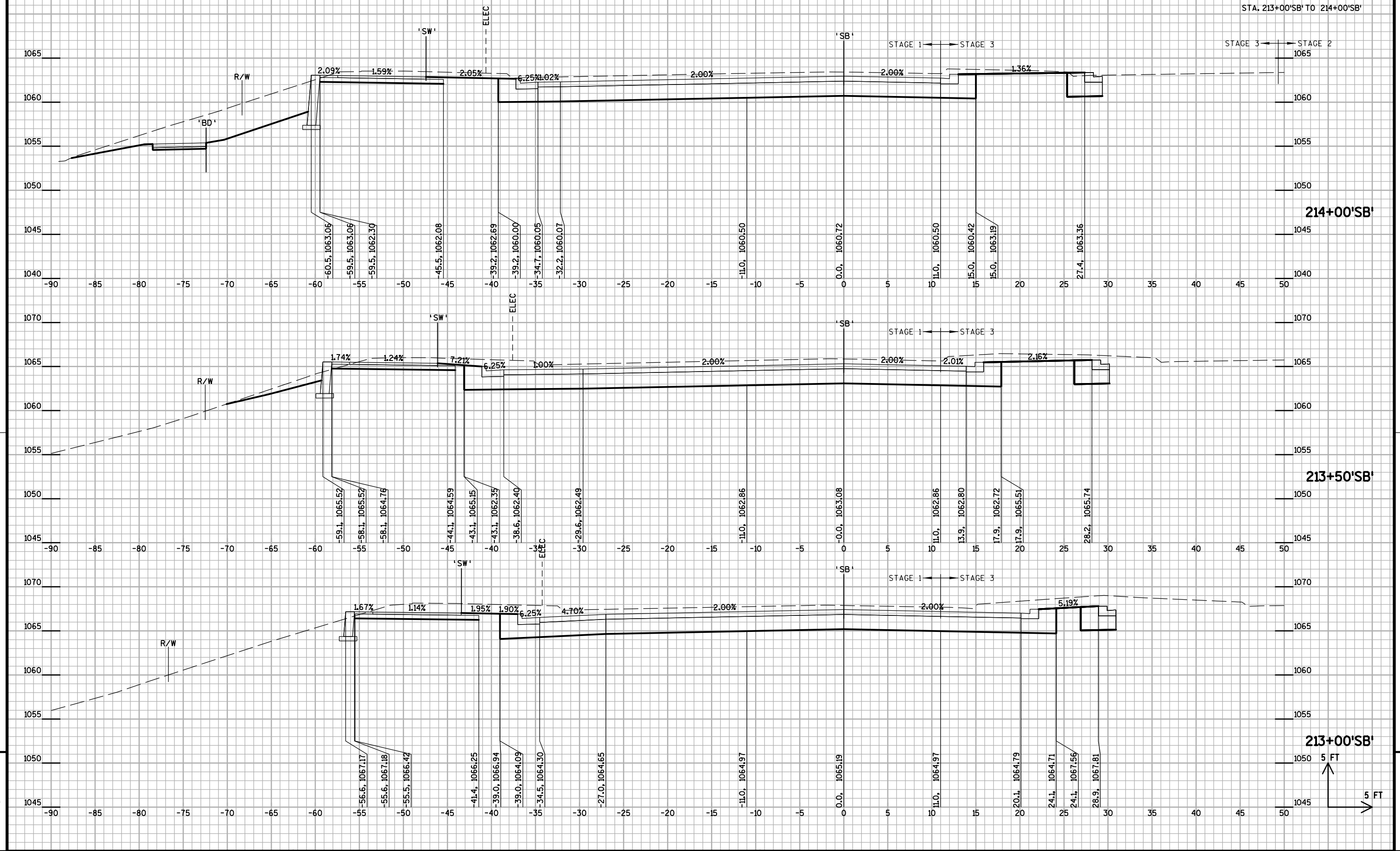


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'SB' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090202_XS_SB Gammon.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 213+00'SB' TO 214+00'SB'

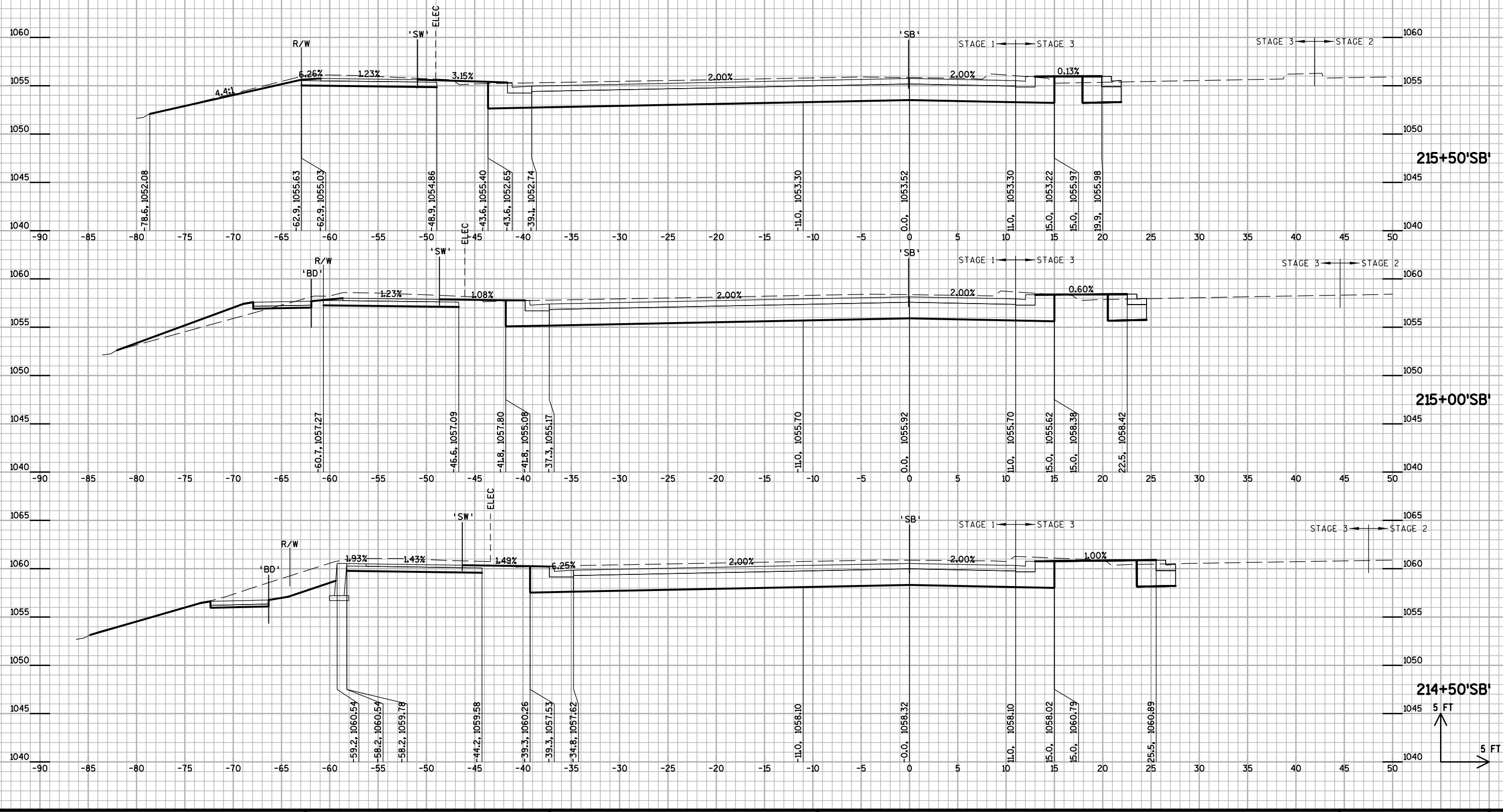


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'SB' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090202_XS_SB Gammon.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 214+50'SB' TO 215+50'SB'

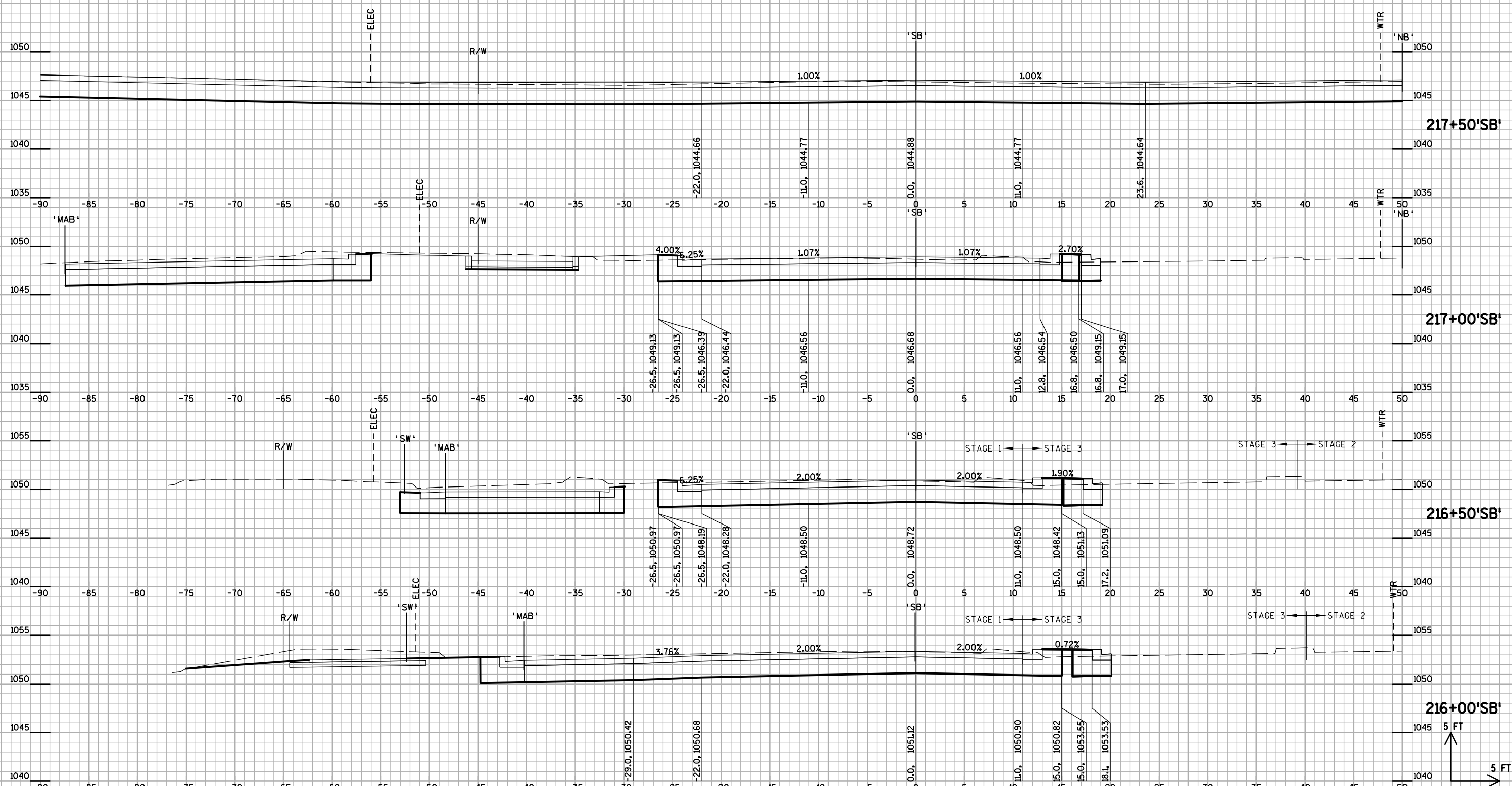


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'SB' LINE	SHEET 585	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090202_XS_SB Gammon.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 216+00'SB' TO 217+50'SB'

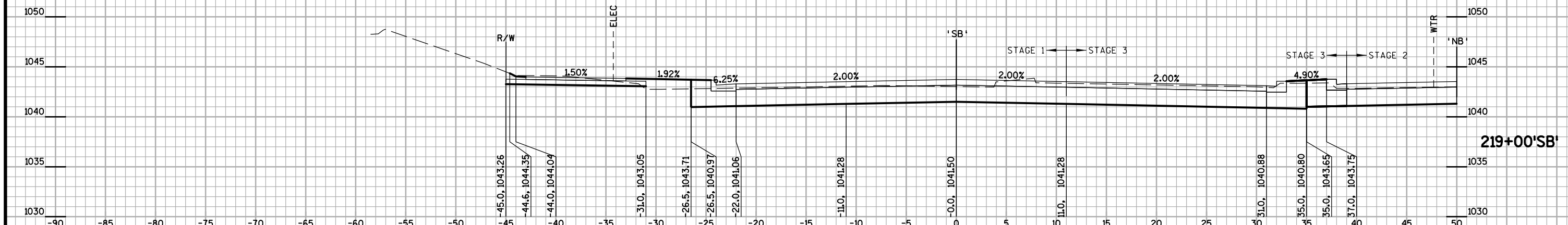


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'SB' LINE	SHEET 586	E

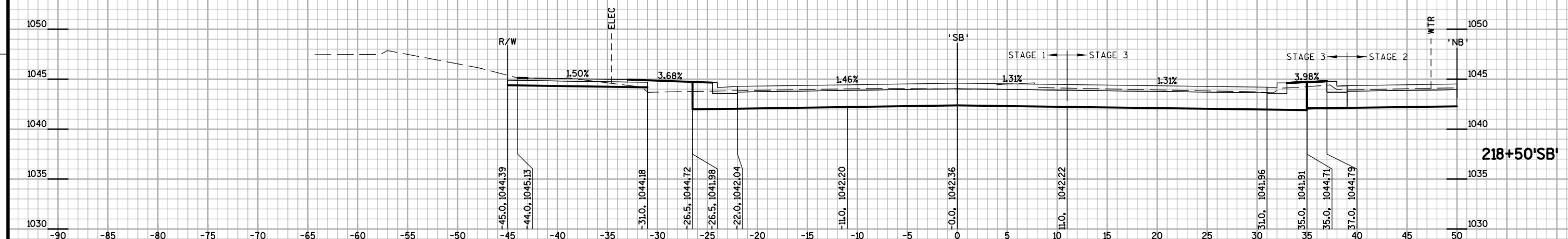
FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090202_XS_SB Gammon.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

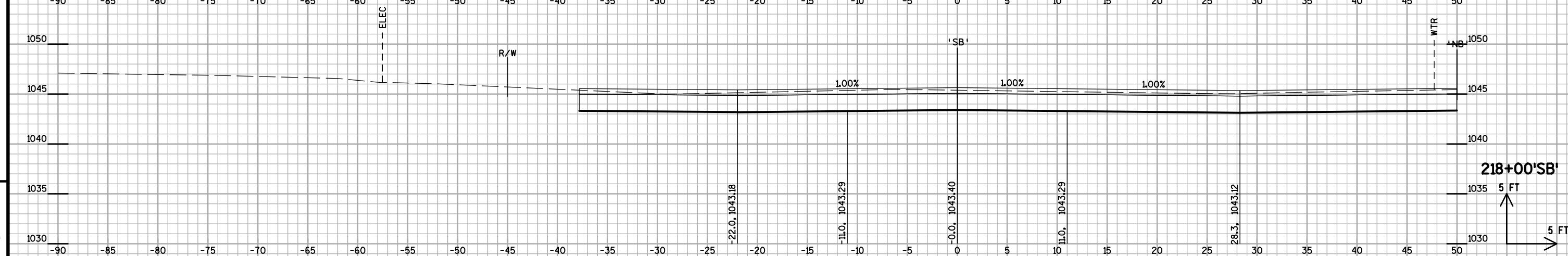
STA. 218+00'SB' TO 219+00'SB'



219+00'SB'



218+50'SB'



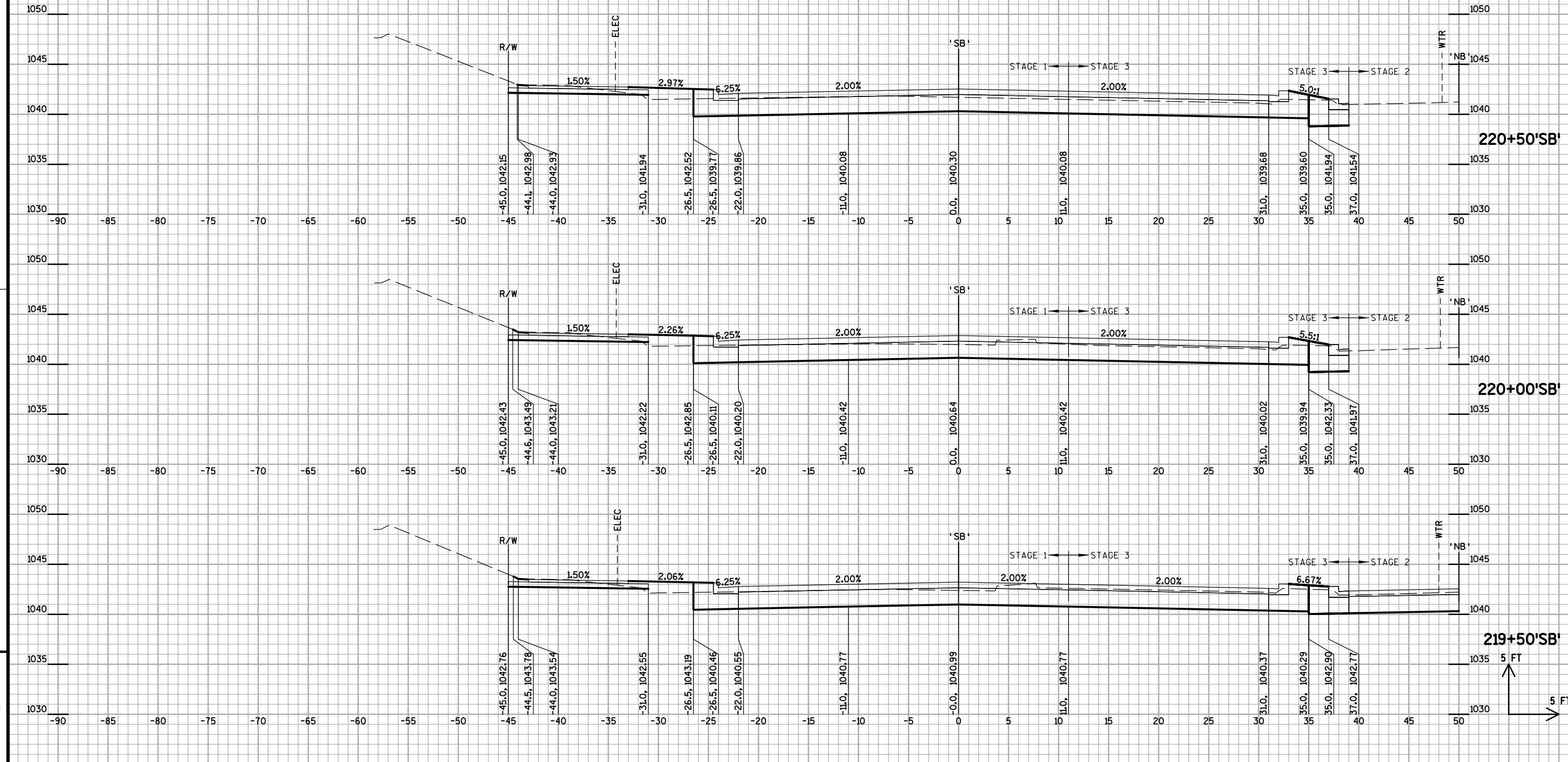
218+00'SB'

9

9

PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'SB' LINE	SHEET 587	E

STA. 219+50'SB' TO 220+50'SB'



9

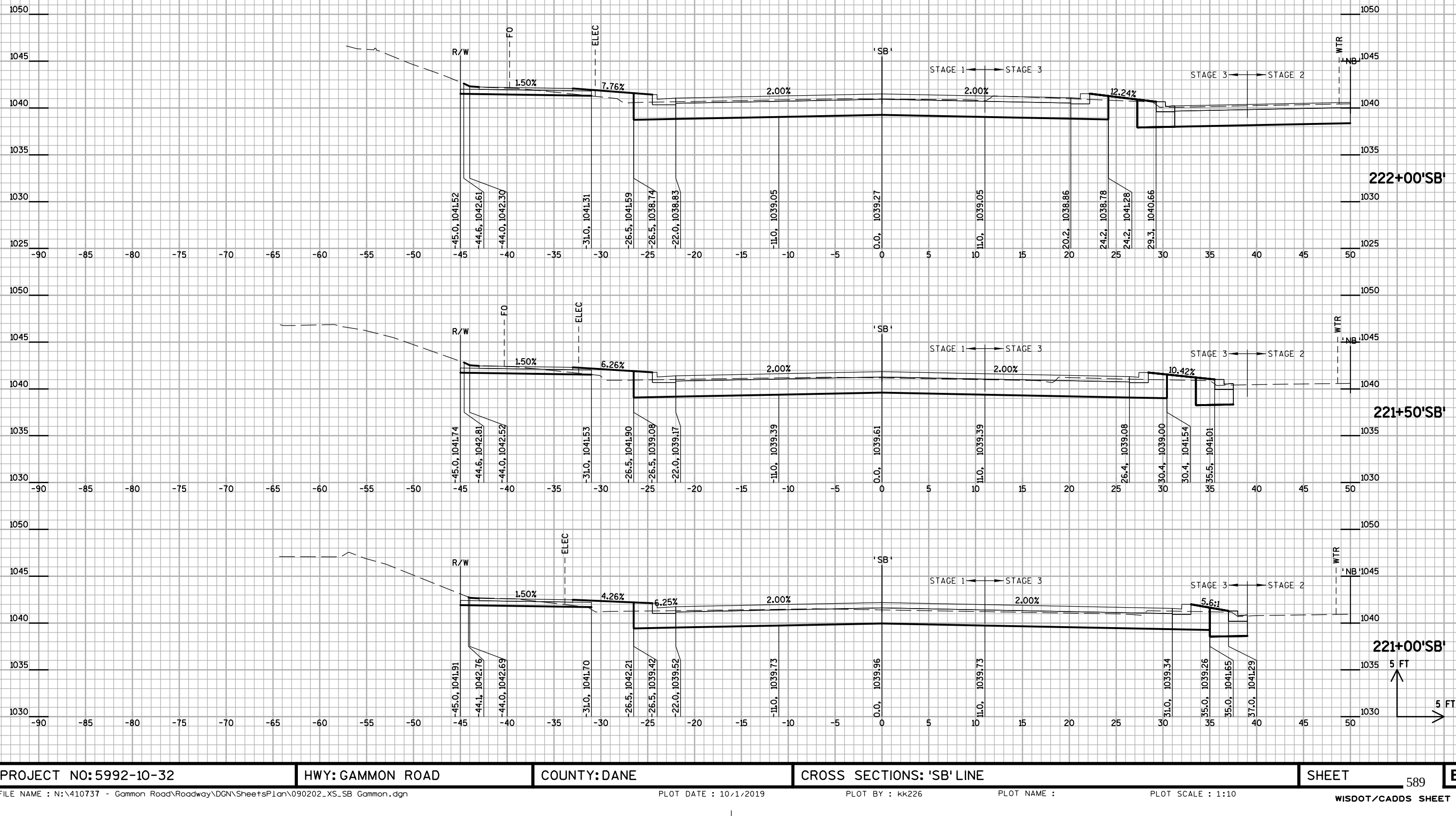
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PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'SB' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090202_XS_SB Gammon.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 221+00'SB' TO 222+00'SB'

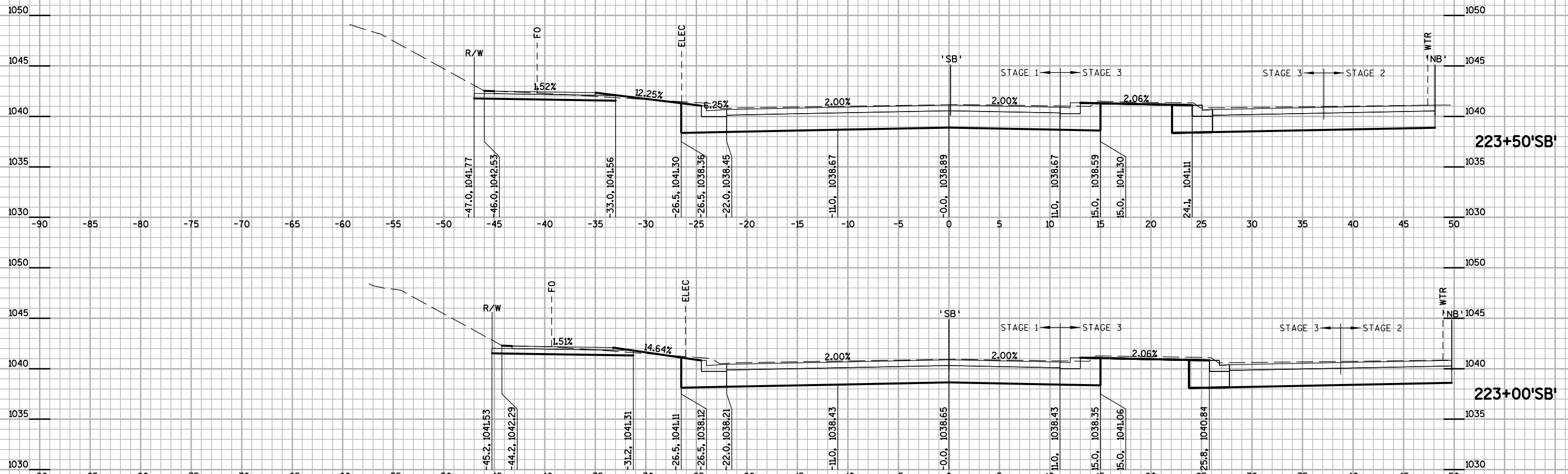


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'SB' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090202_XS_SB Gammon.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 222+50'SB' TO 223+50'SB'

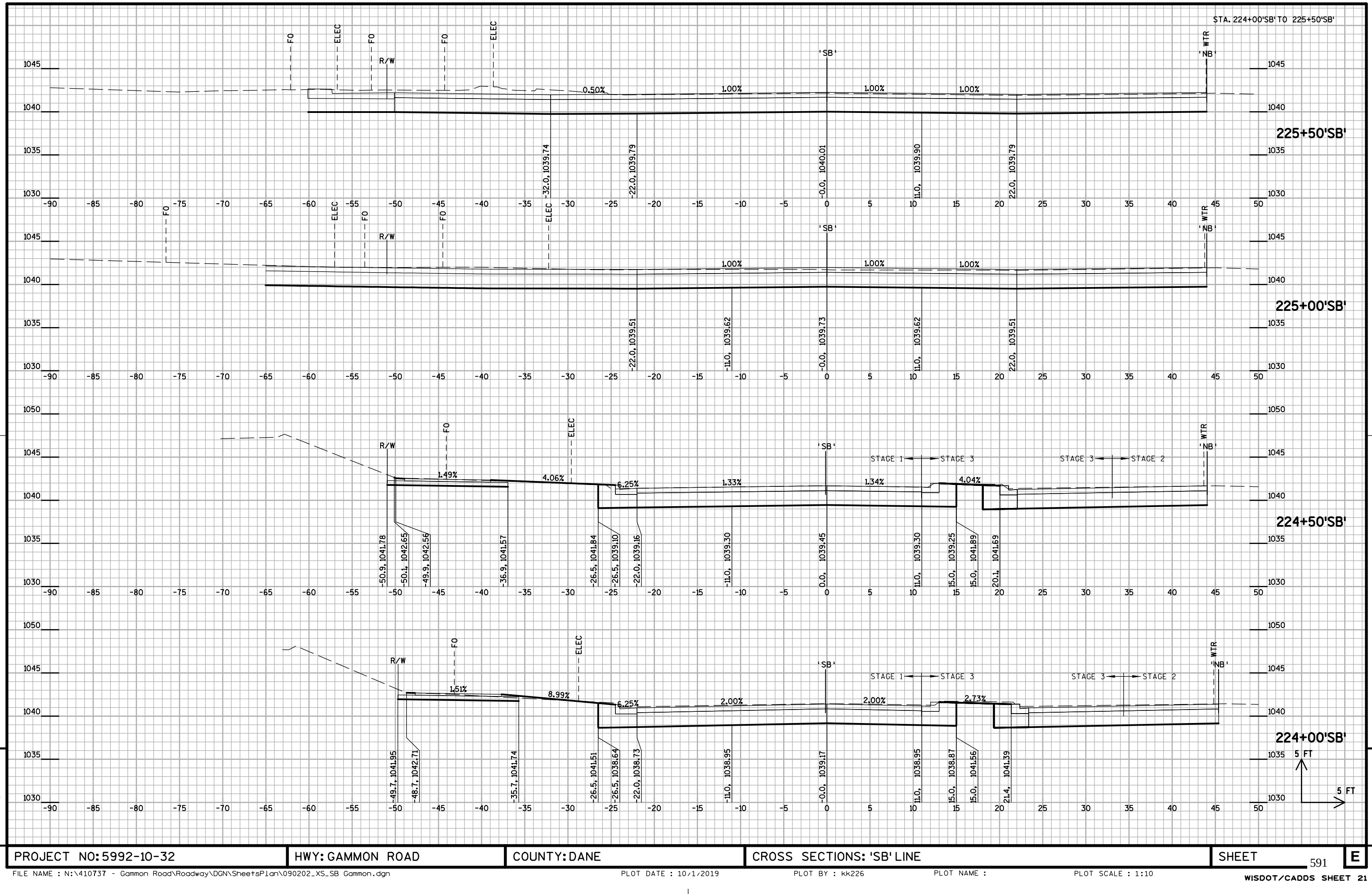


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'SB' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090202_XS_SB Gammon.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 224+00'SB' TO 225+50'SB'



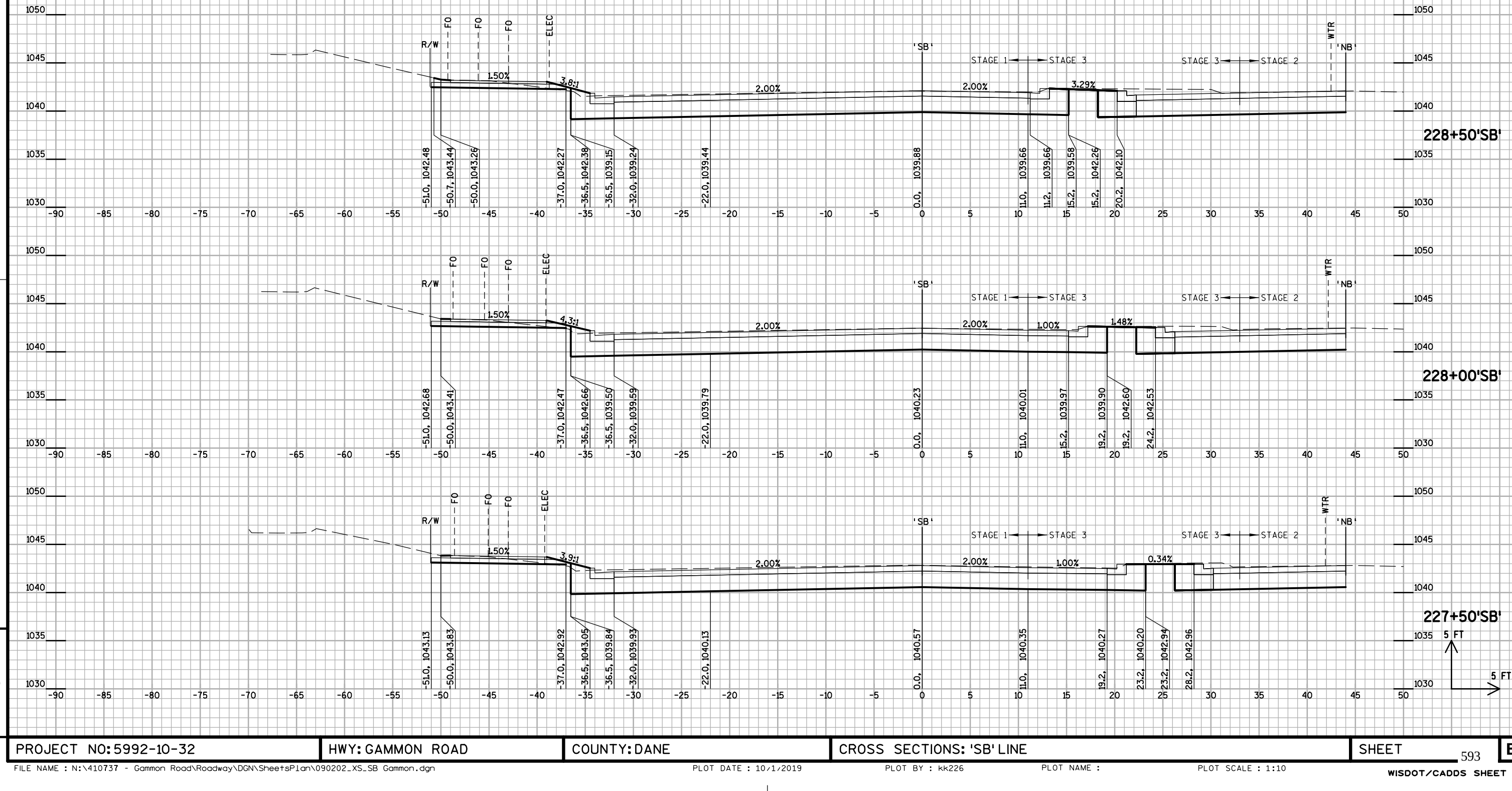
PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'SB' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090202_XS_SB Gammon.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

STA. 226+00'SB' TO 227+00'SB'

PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'SB' LINE	SHEET 592	E

STA. 227+50'SB' TO 228+50'SB'

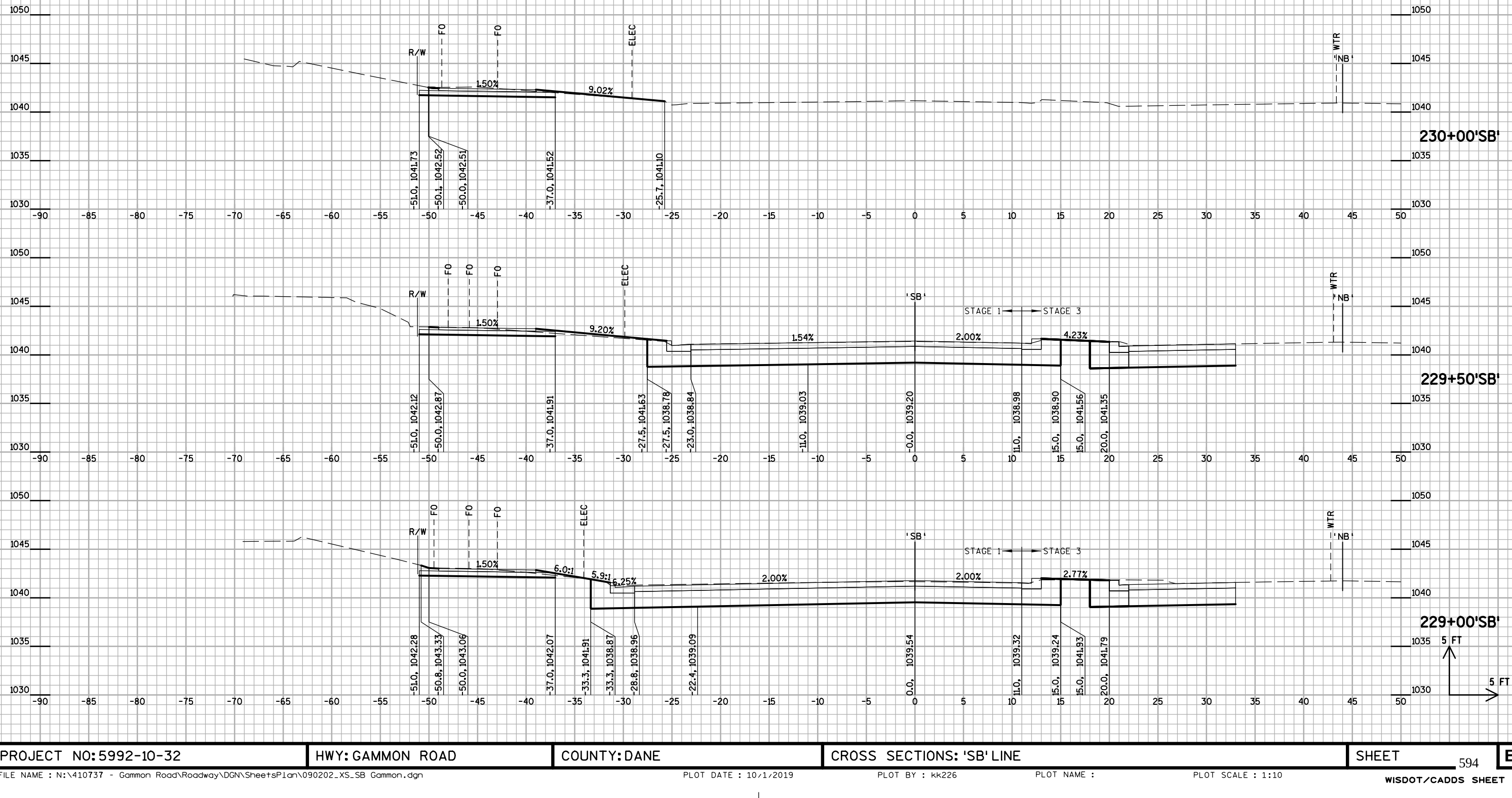


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'SB' LINE	SHEET 593	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090202_XS_SB Gammon.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 229+00'SB' TO 230+00'SB'



9

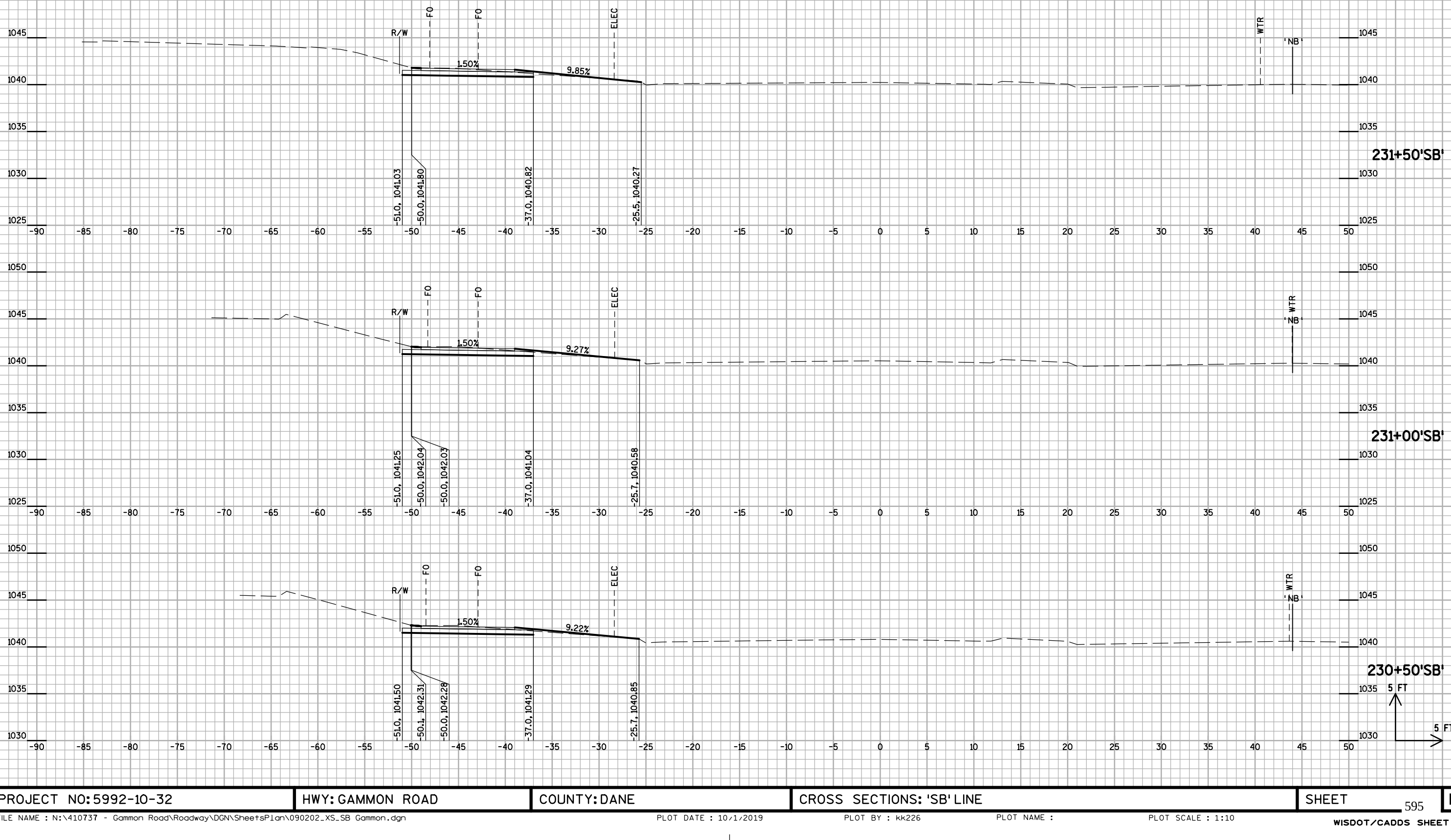
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PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'SB' LINE	SHEET 594	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090202_XS_SB Gammon.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 230+50'SB' TO 231+50'SB'

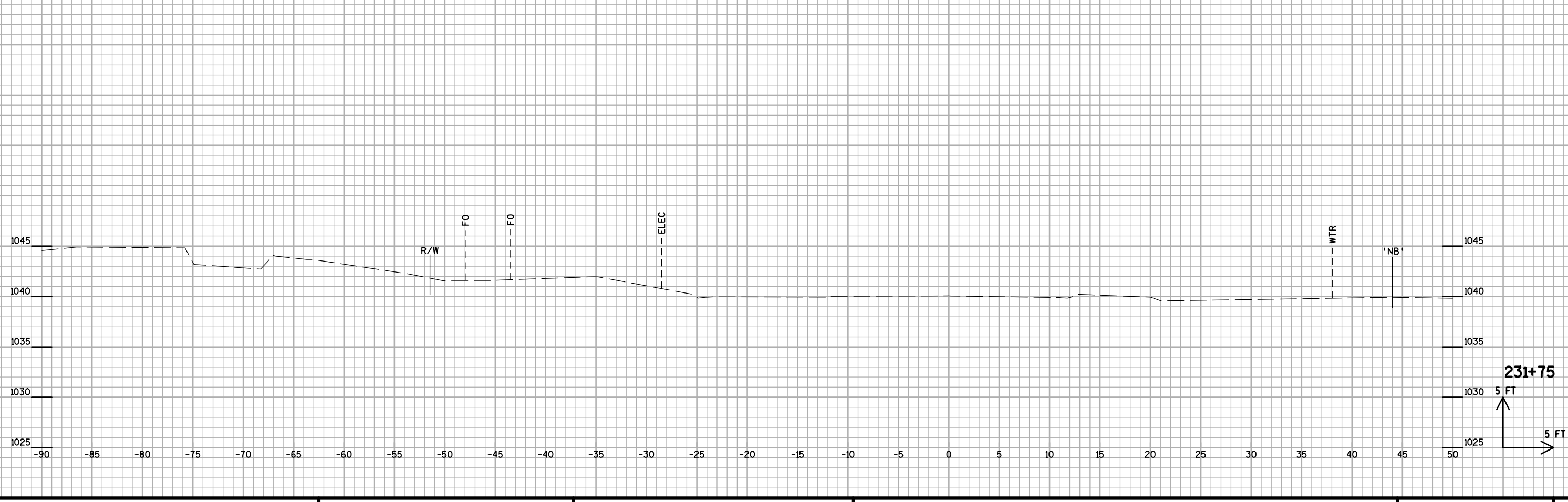


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'SB' LINE	SHEET 595	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090202_XS_SB Gammon.dgn | PLOT DATE : 10/1/2019 | PLOT BY : kk226 | PLOT NAME : | PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 231+75 TO 231+75



9

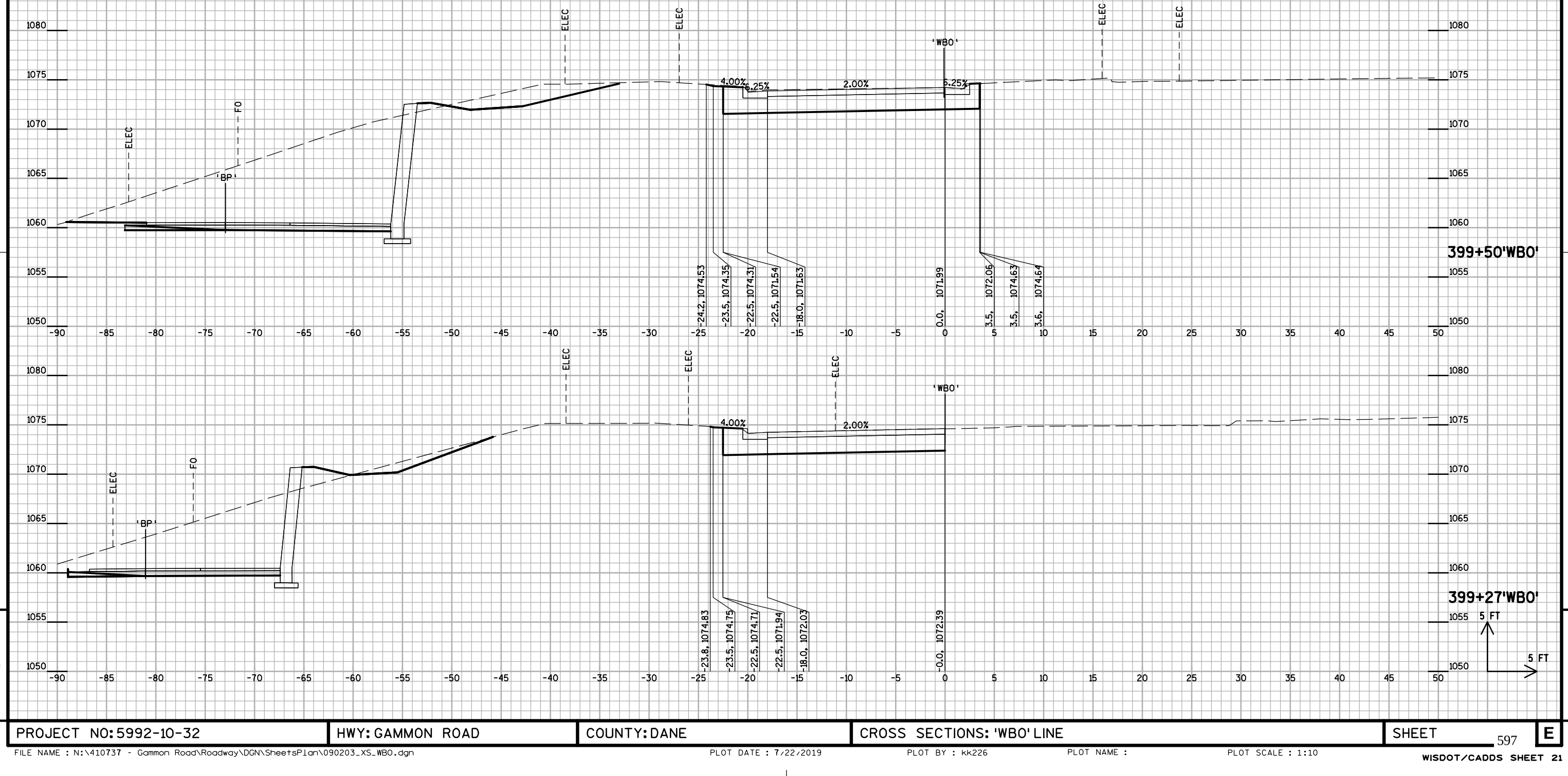
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PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'SB' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090202_XS_SB Gammon.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 399+27'WBO' TO 399+50'WBO'

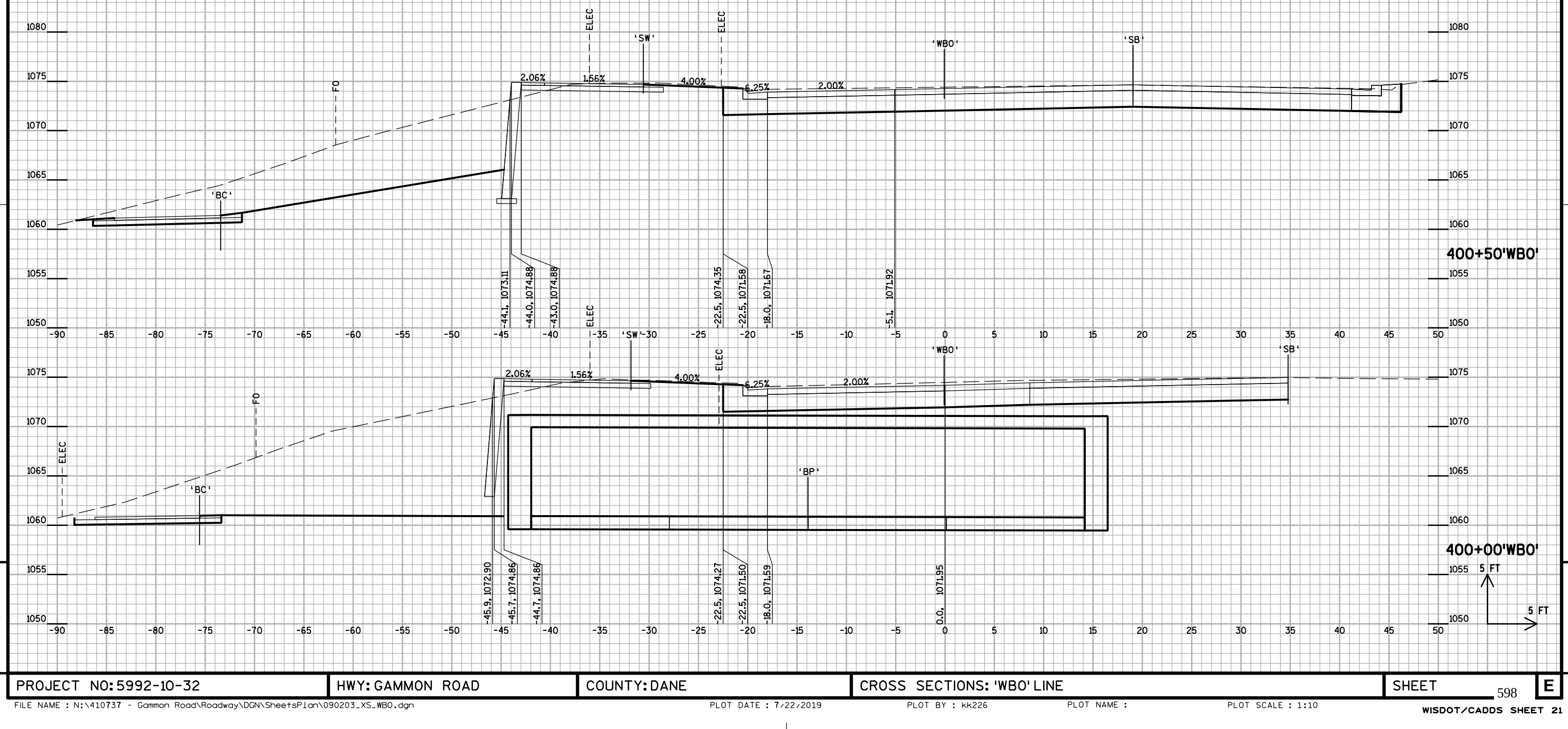


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'WBO' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090203_XS_WBO.dgn PLOT DATE : 7/22/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 400+00'WBO' TO 400+50'WBO'

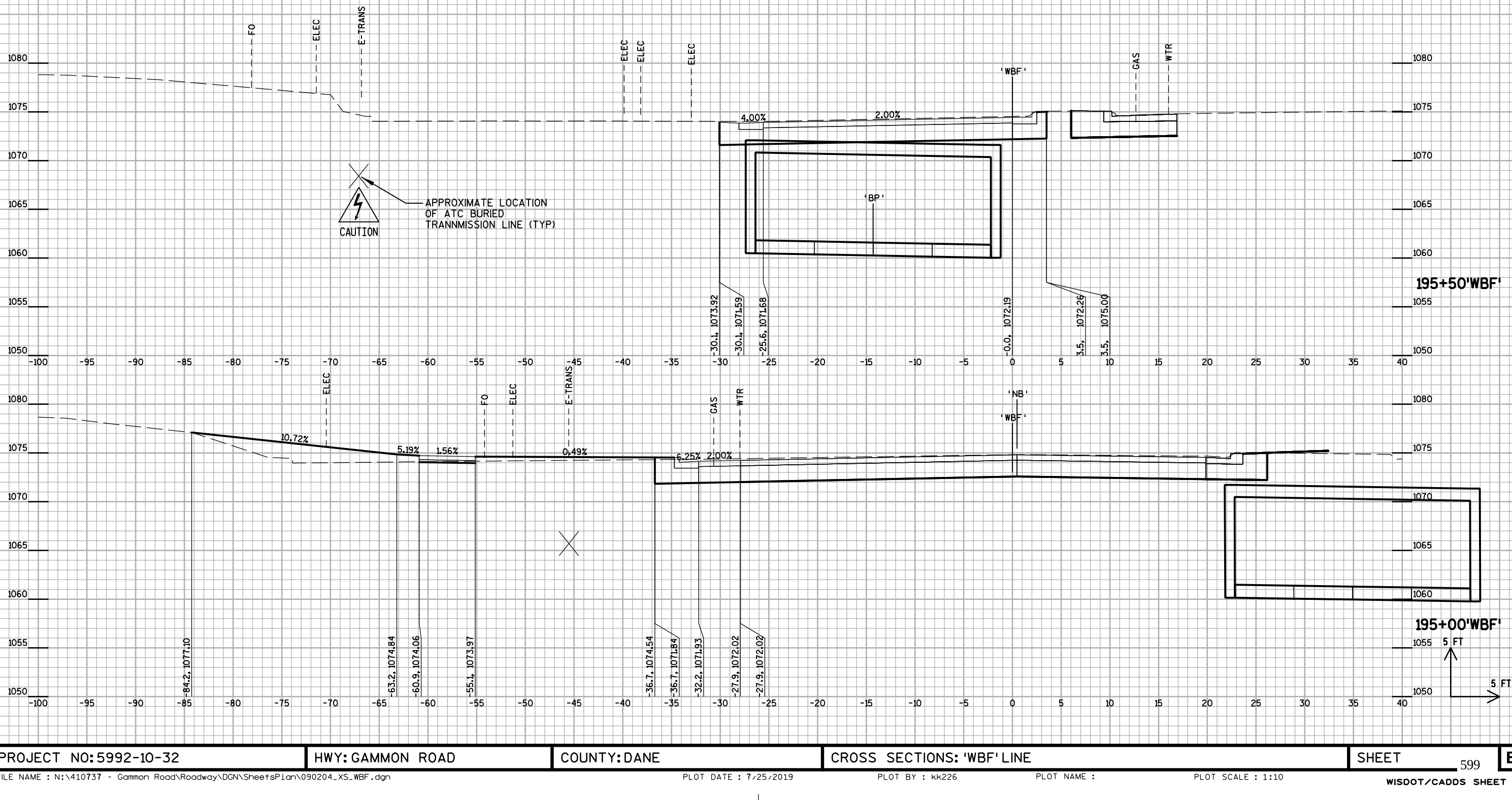


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'WBO' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090203_XS_WBO.dgn PLOT DATE : 7/22/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 195+00'WBF' TO 195+50'WBF'



9

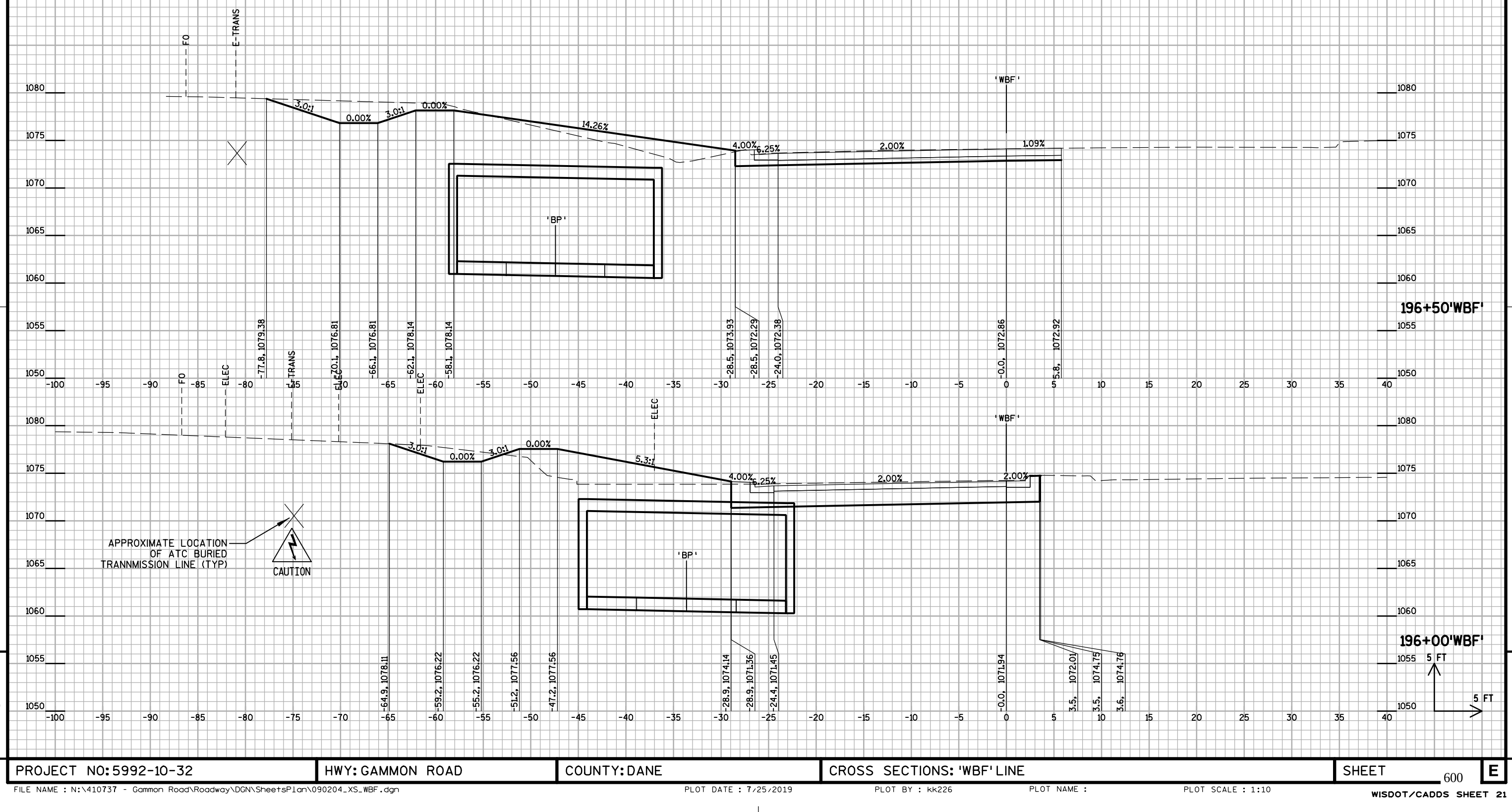
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PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'WBF' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090204_XS_WBF.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 196+00'WBF' TO 196+50'WBF'

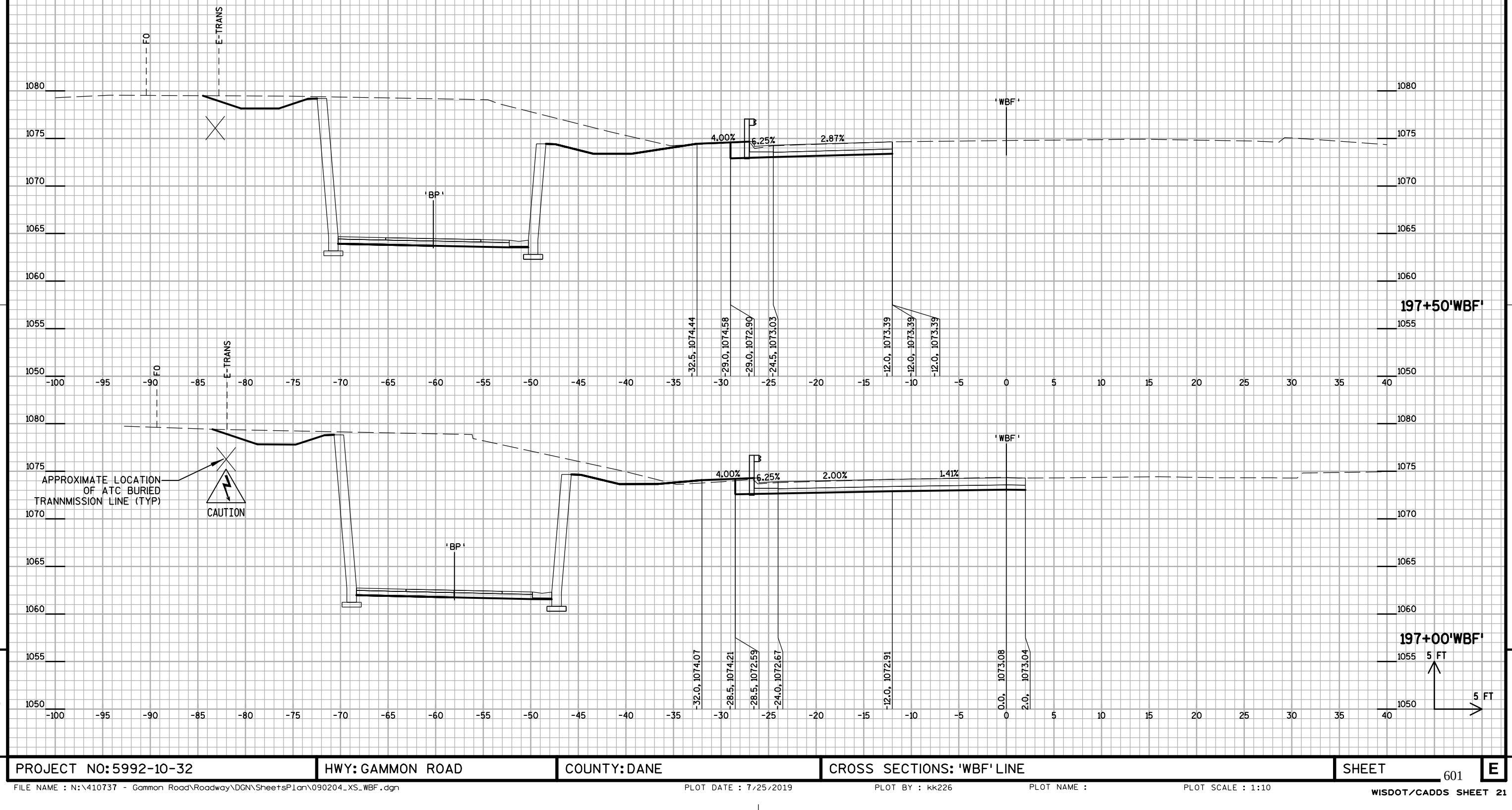


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'WBF' LINE	SHEET 600	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090204_XS_WBF.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 197+00'WBF' TO 197+50'WBF'

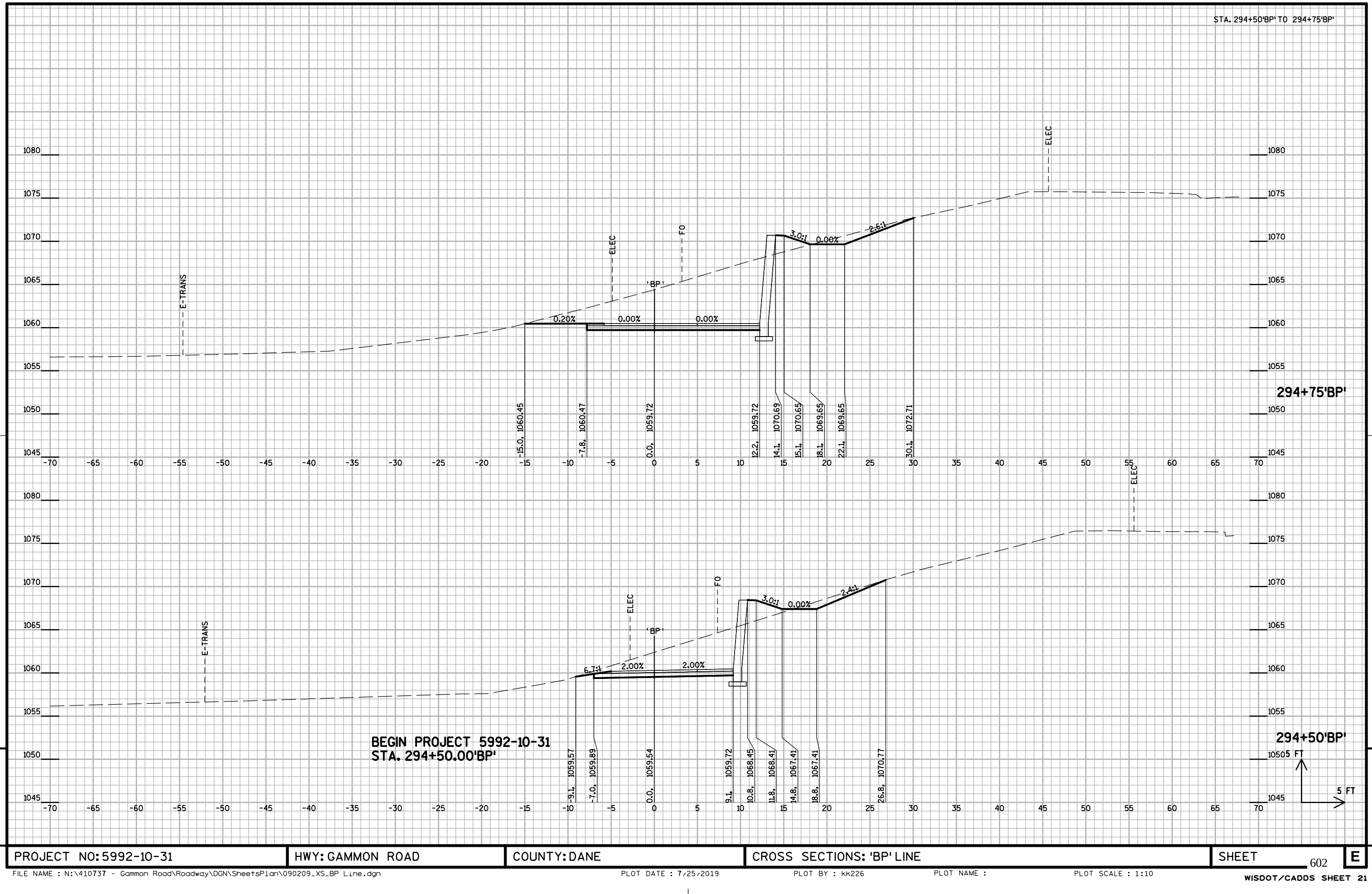


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'WBF' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090204_XS_WBF.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 294+50'BP' TO 294+75'BP'

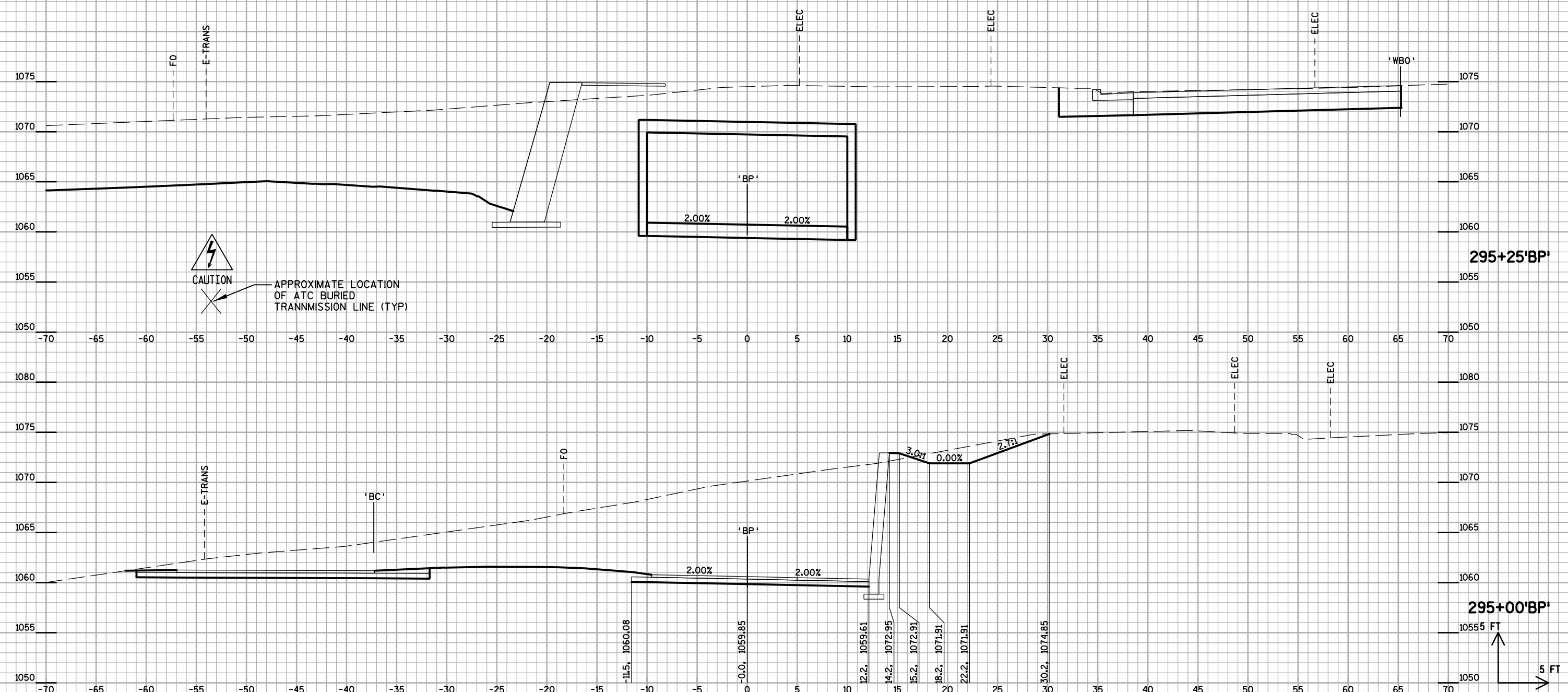


PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 295+00'BP' TO 295+25'BP'

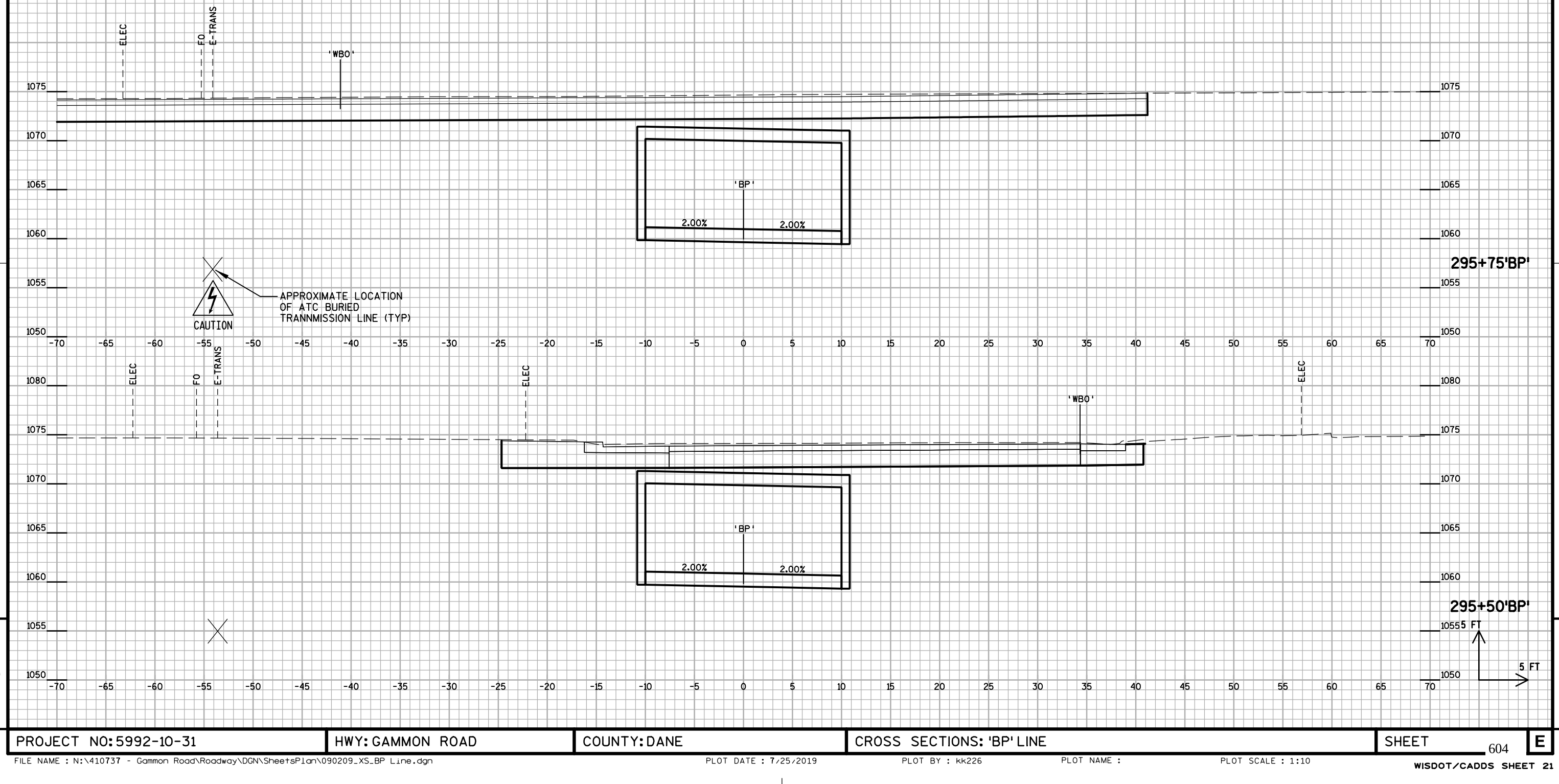


PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET 603	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 295+50'BP' TO 295+75'BP'



9

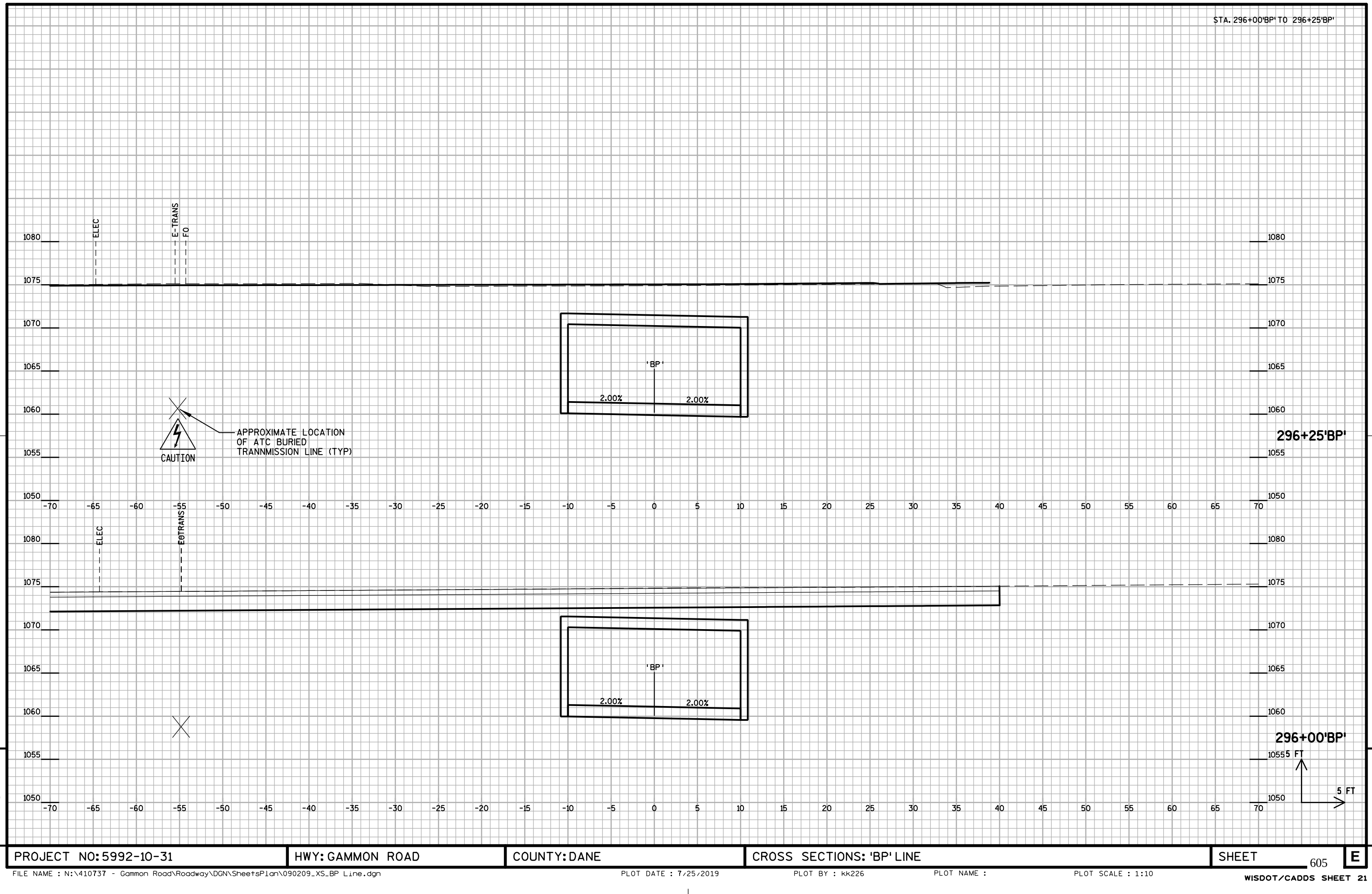
9

PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 296+00'BP' TO 296+25'BP'

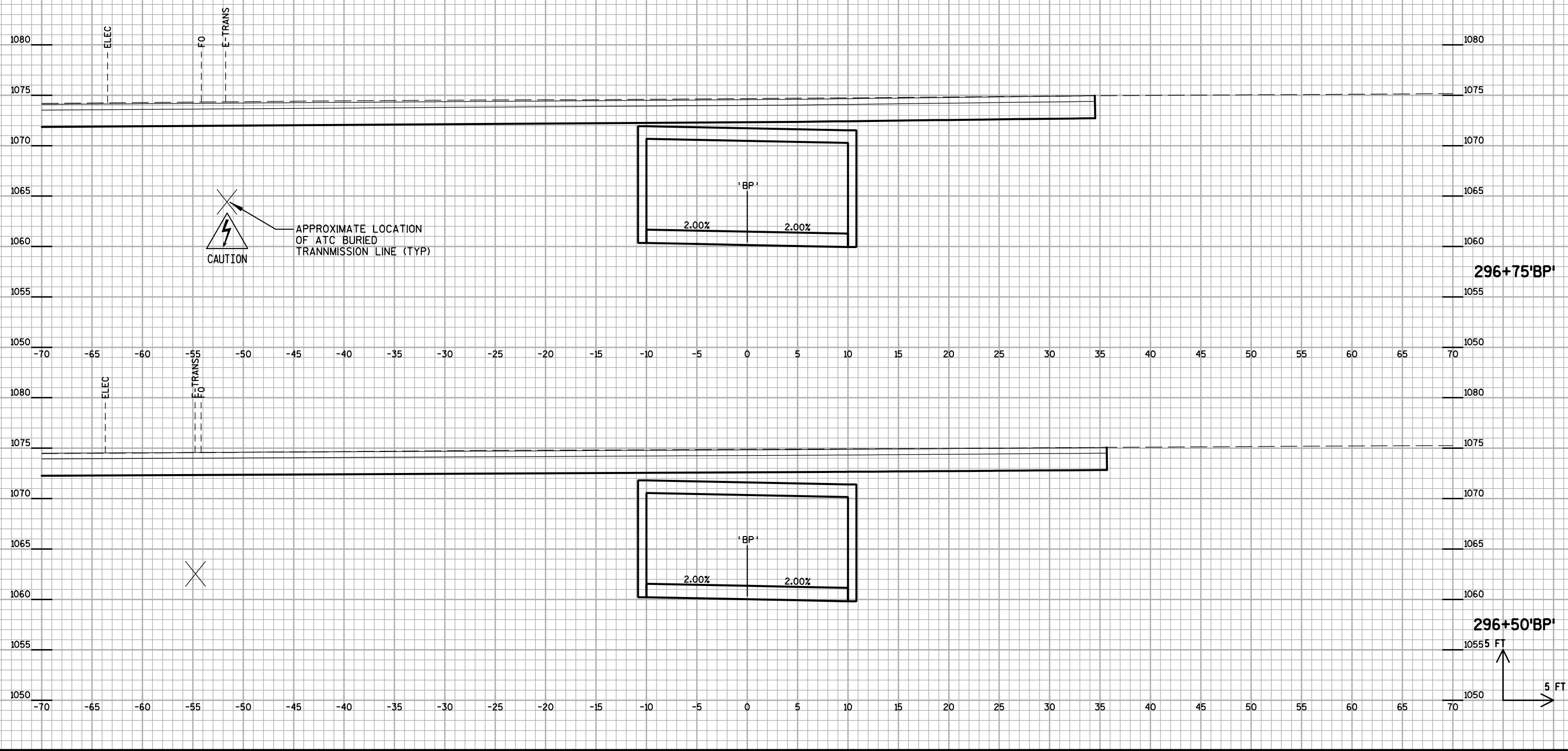


PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 296+50'BP' TO 296+75'BP'



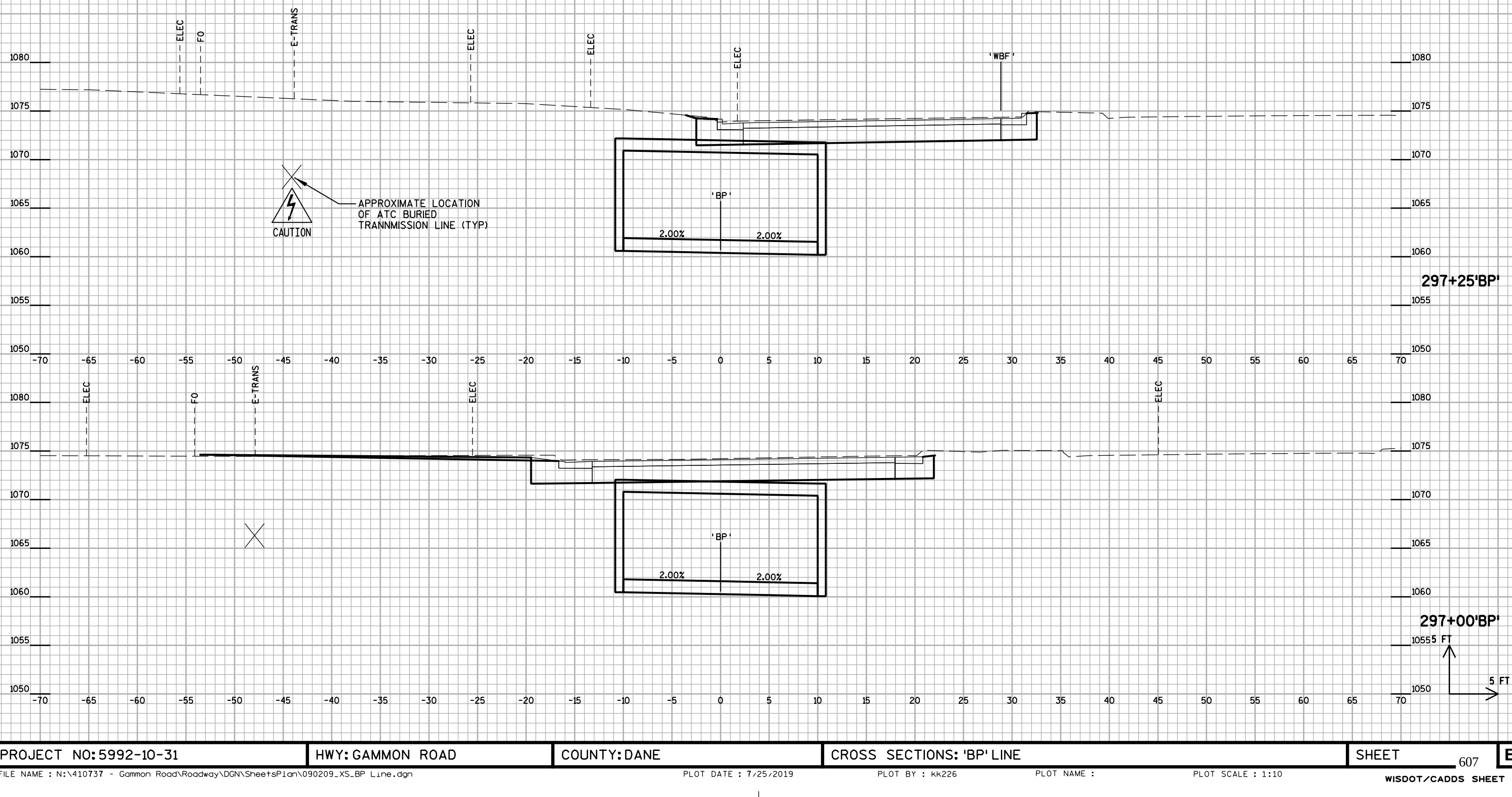
9

PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET 606	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 297+00'BP' TO 297+25'BP'



9

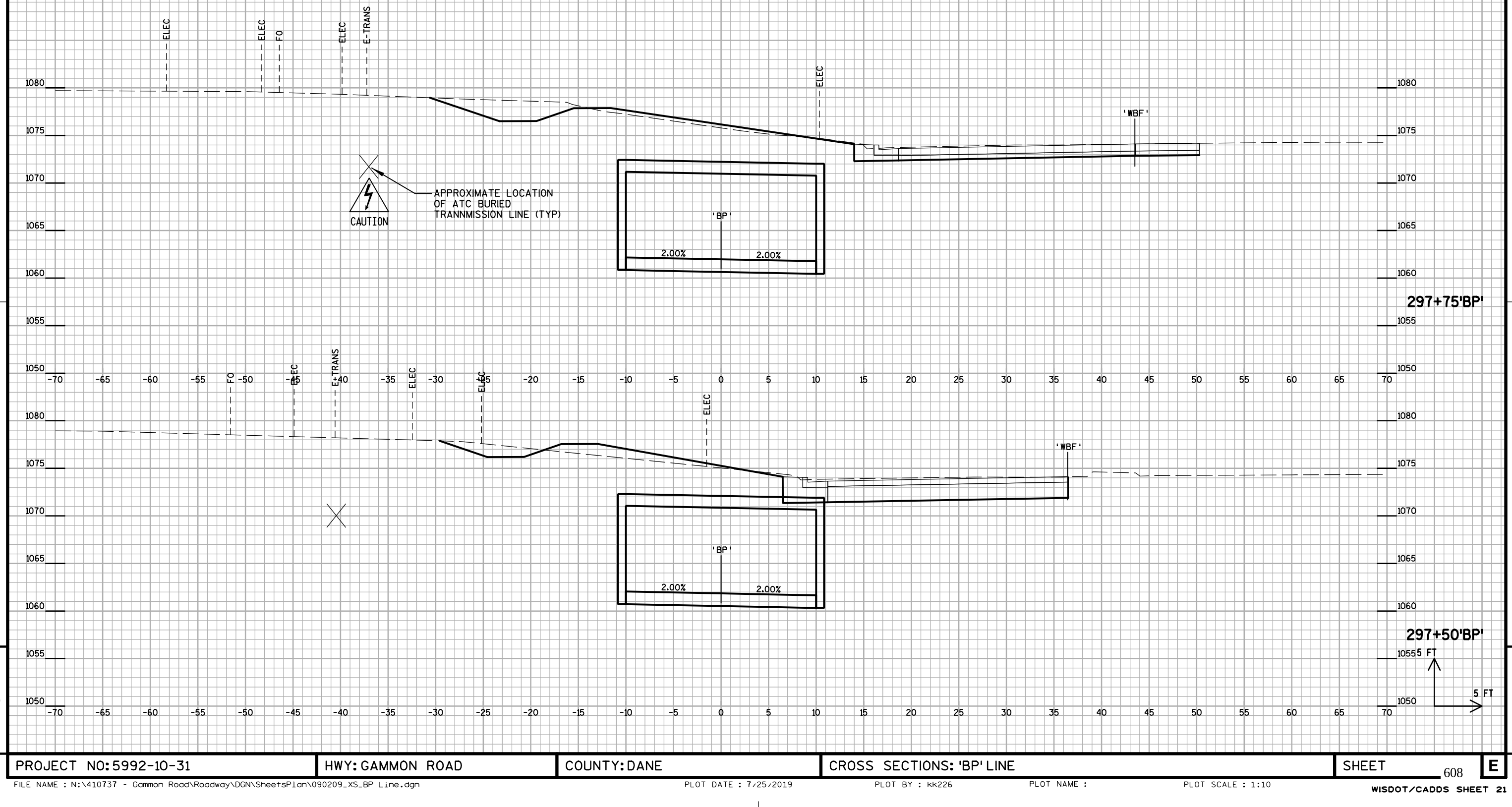
9

PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET 607	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn | PLOT DATE : 7/25/2019 | PLOT BY : kk226 | PLOT NAME : | PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 297+50'BP' TO 297+75'BP'



9

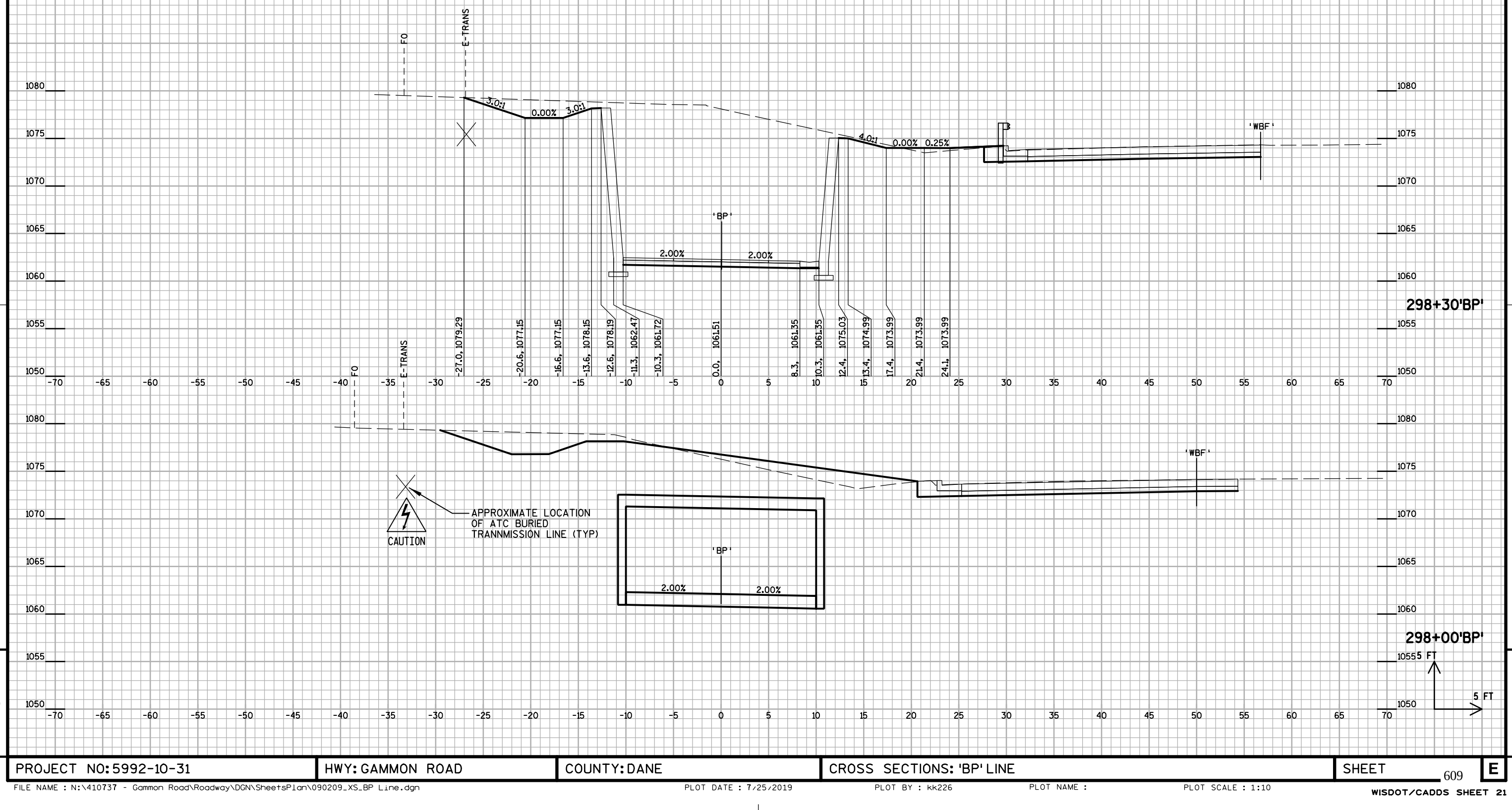
PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET 608	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

9

STA. 298+00'BP' TO 298+30'BP'



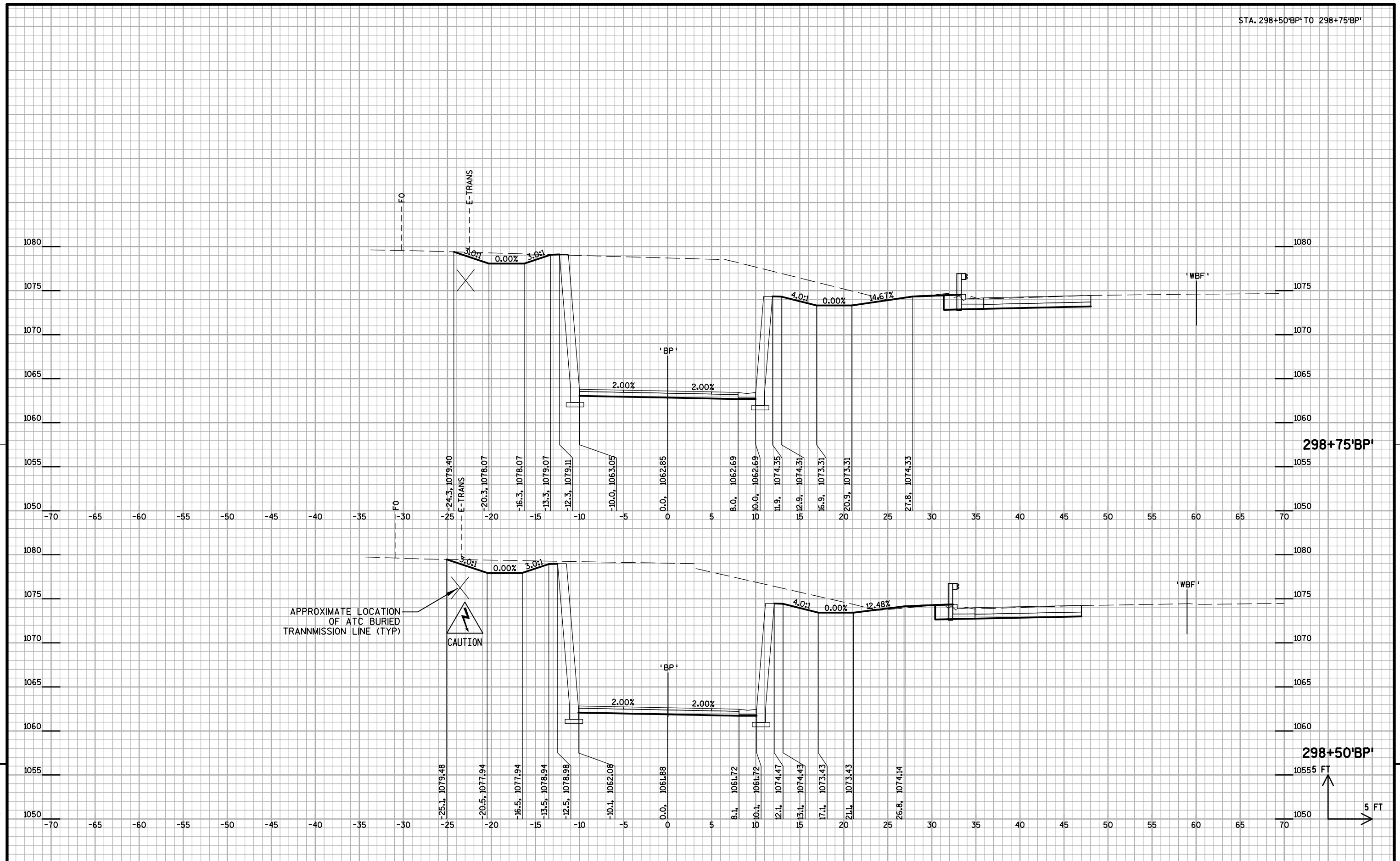
9

PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

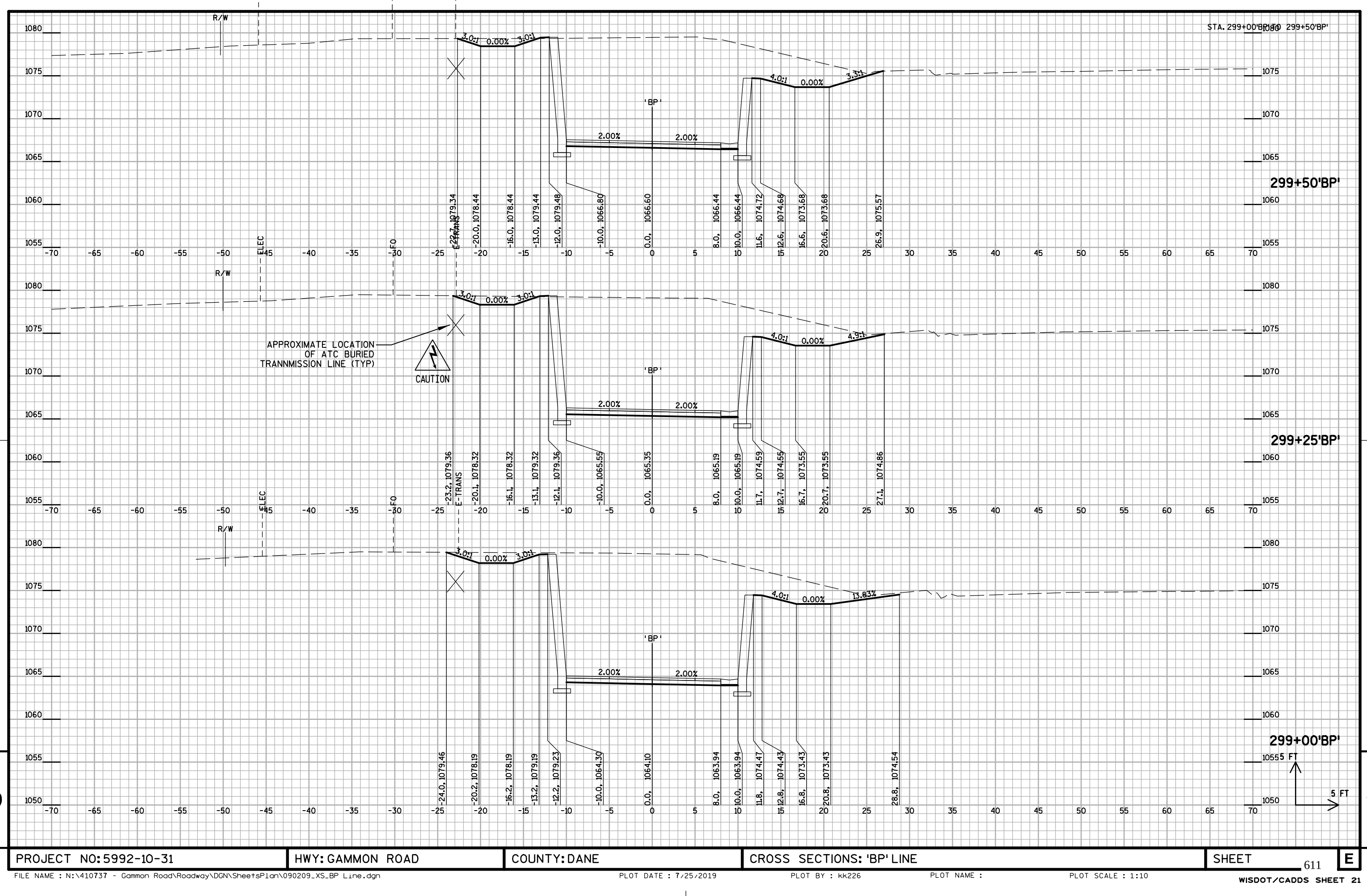
STA. 298+50'BP' TO 298+75'BP'



PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

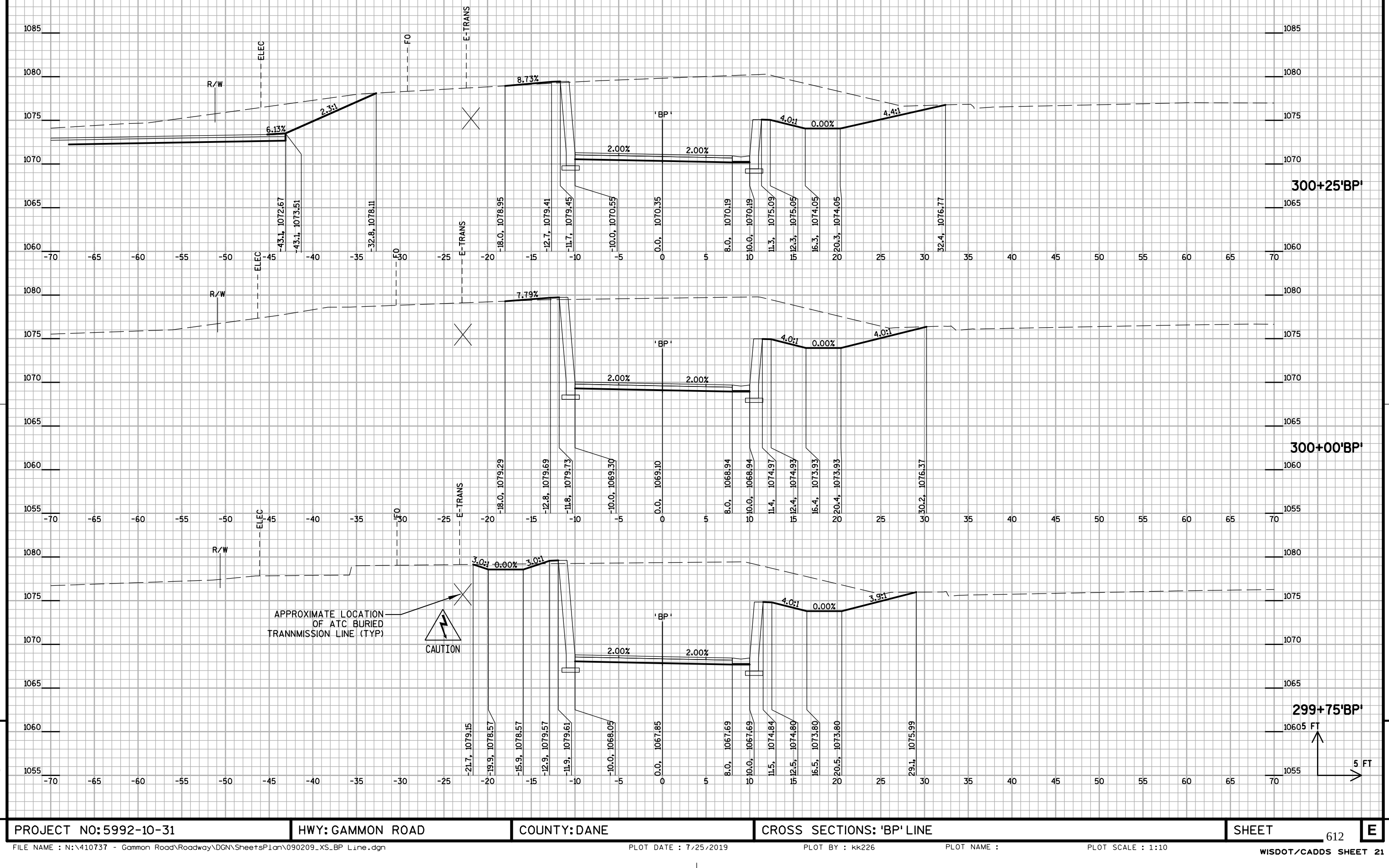


PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 299+75'BP' TO 300+25'BP'

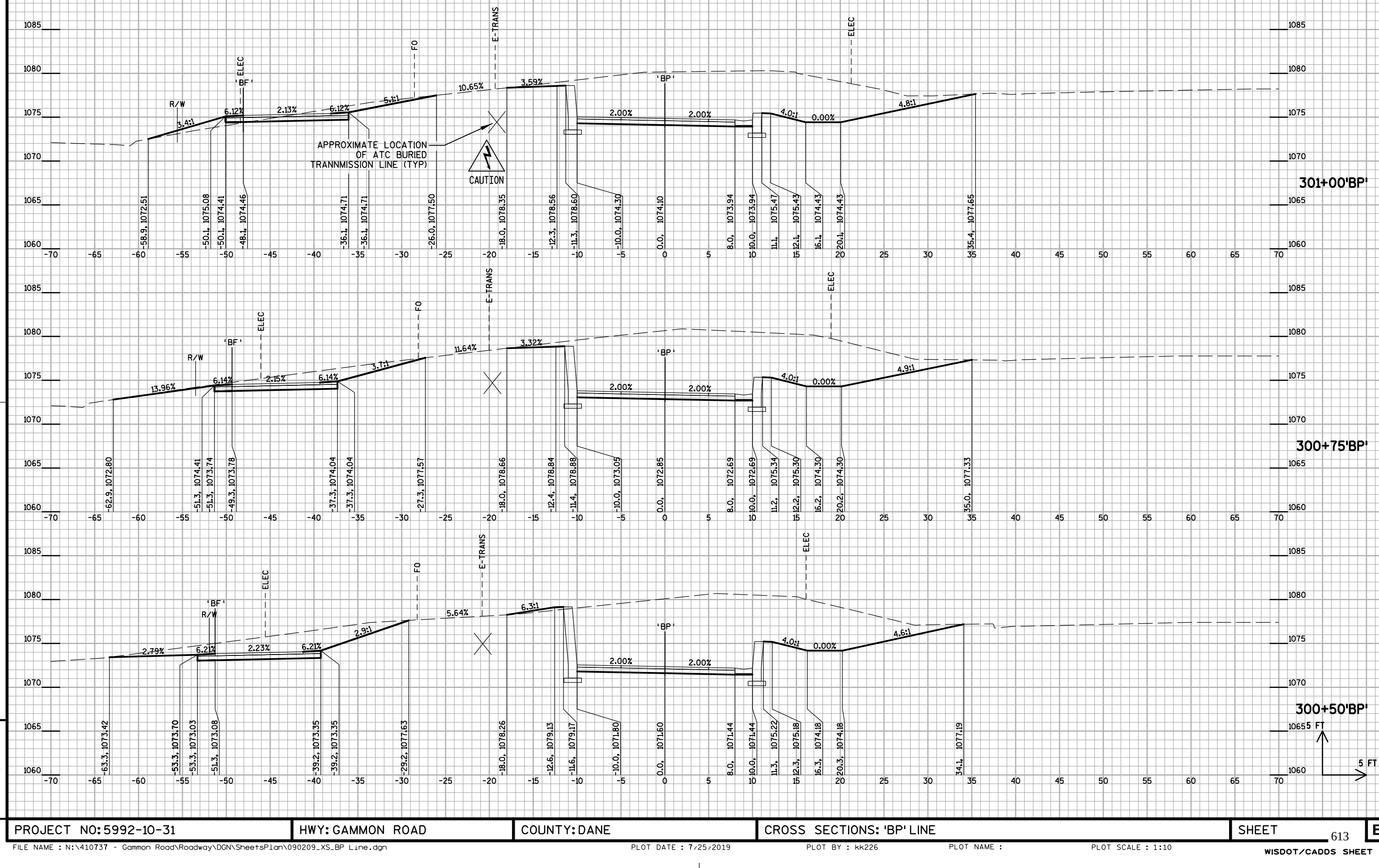


PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 300+50'BP' TO 301+00'BP'

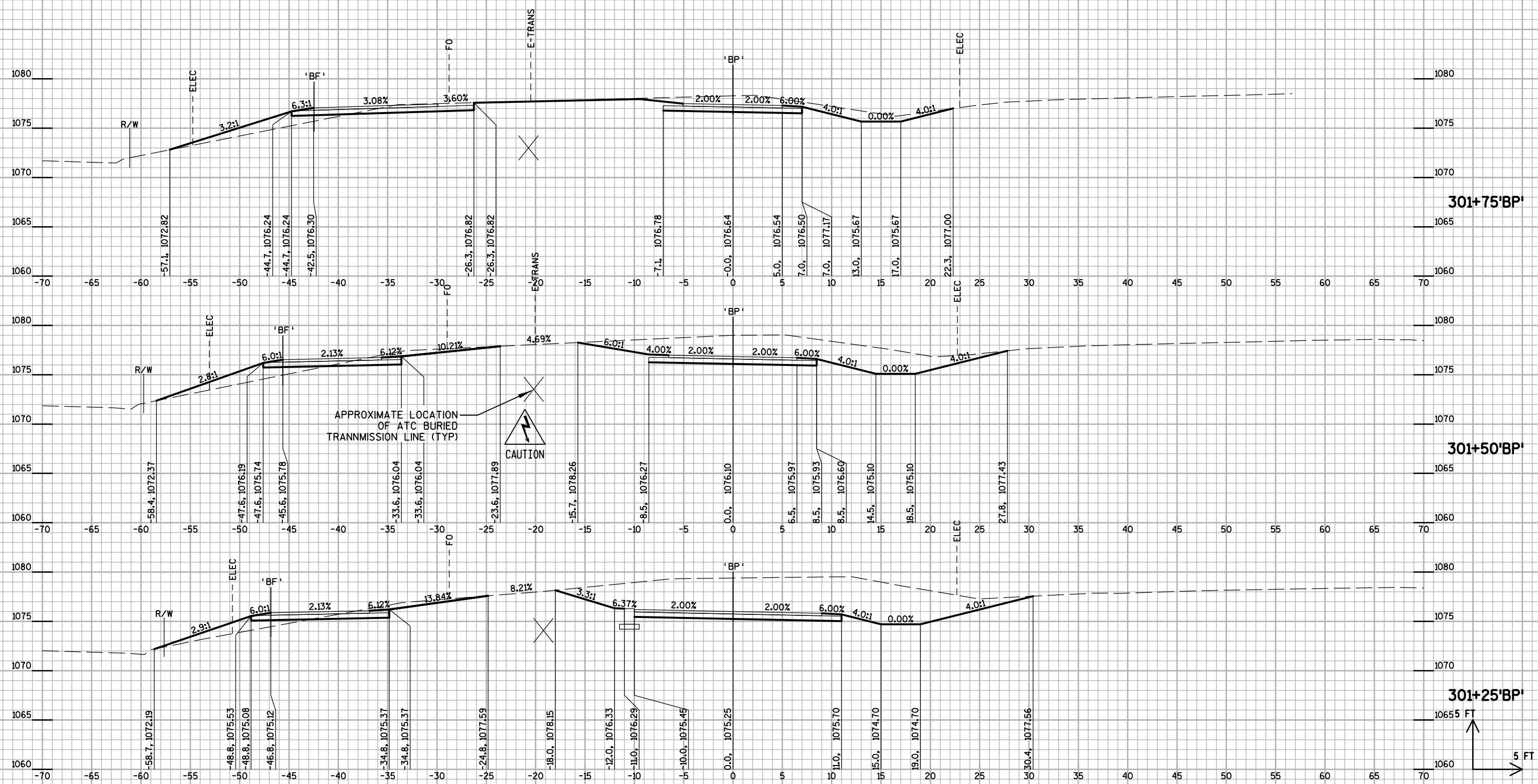


PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 301+25'BP' TO 301+75'BP'

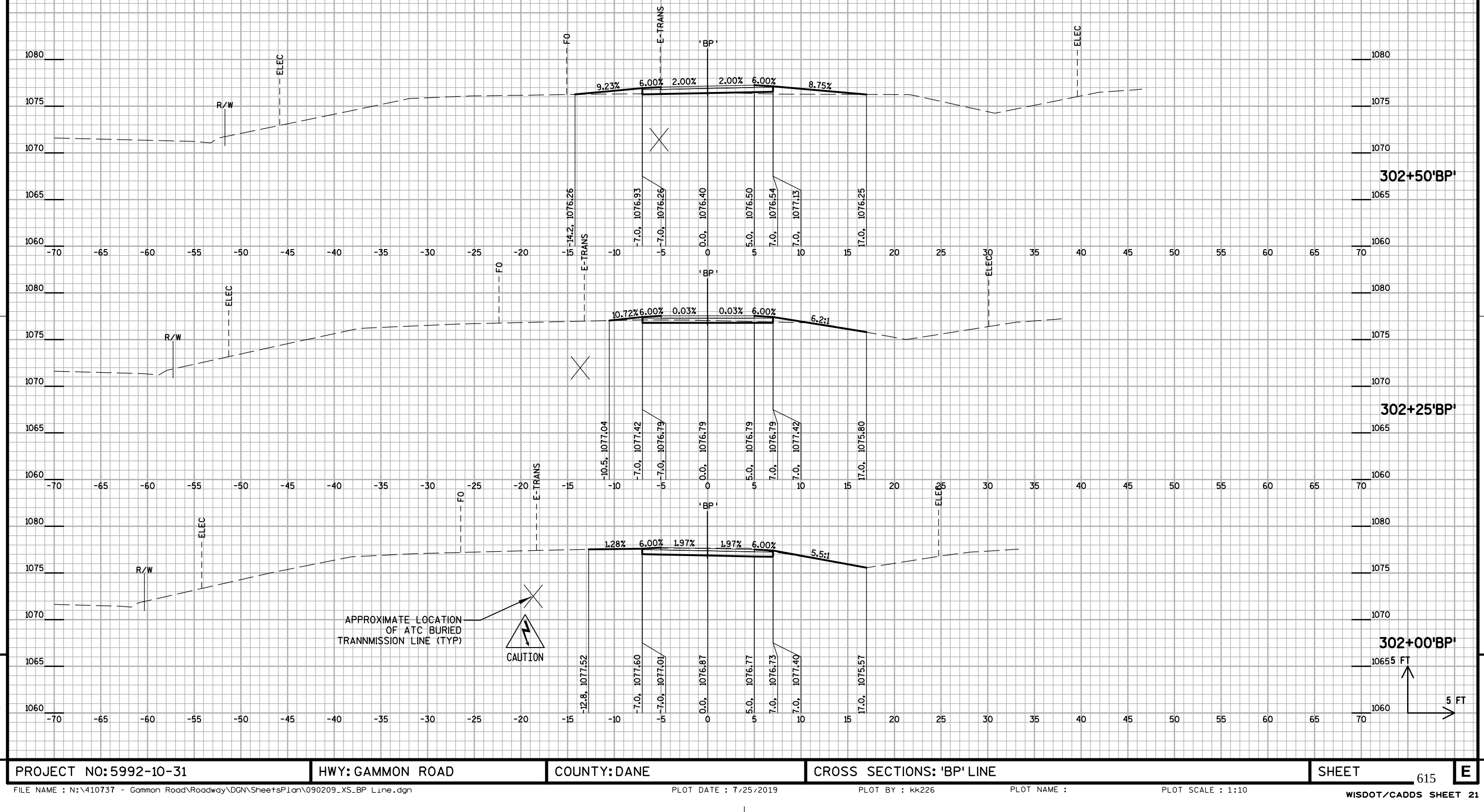


PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 302+00'BP' TO 302+50'BP'

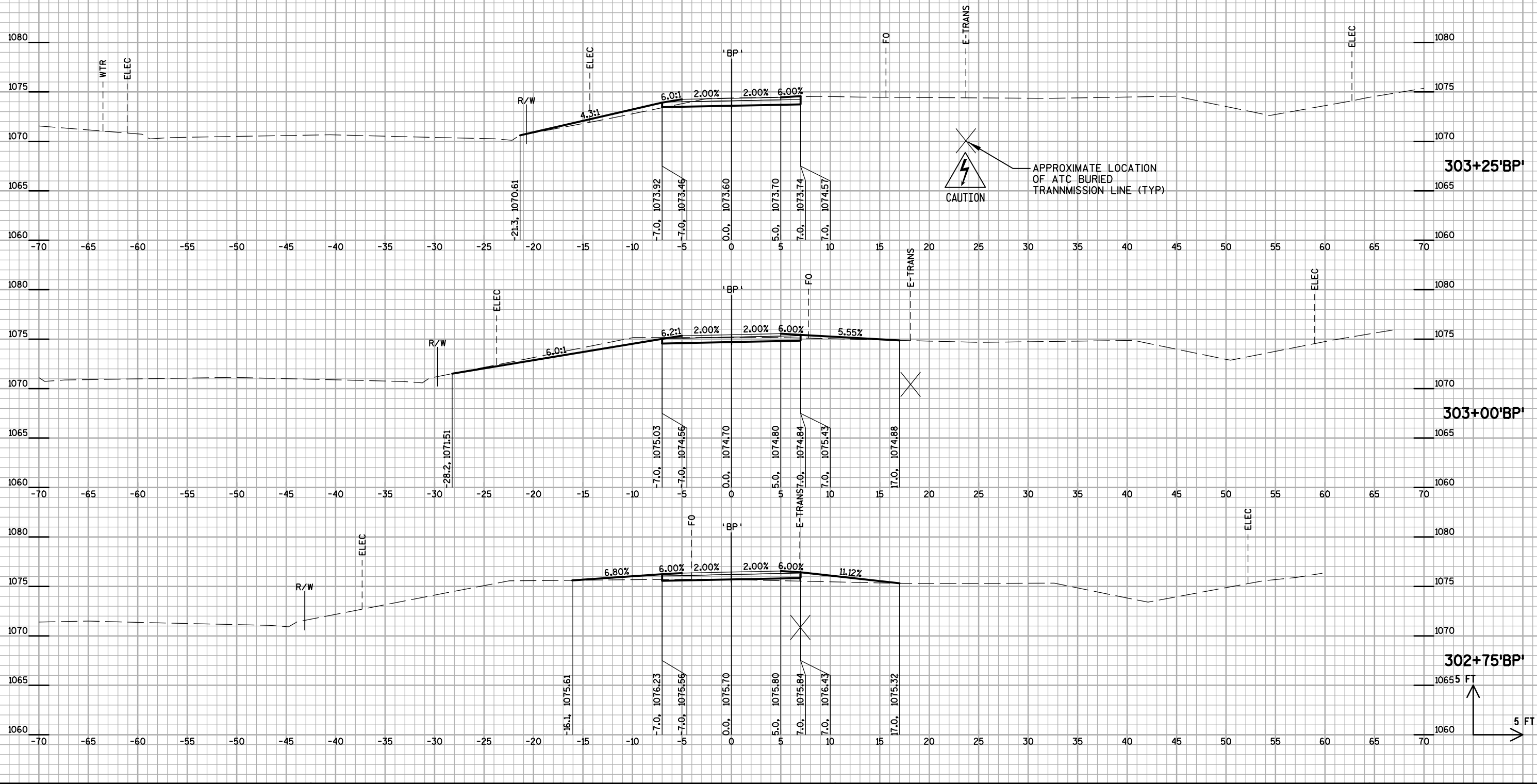


PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 302+75'BP' TO 303+25'BP'



9

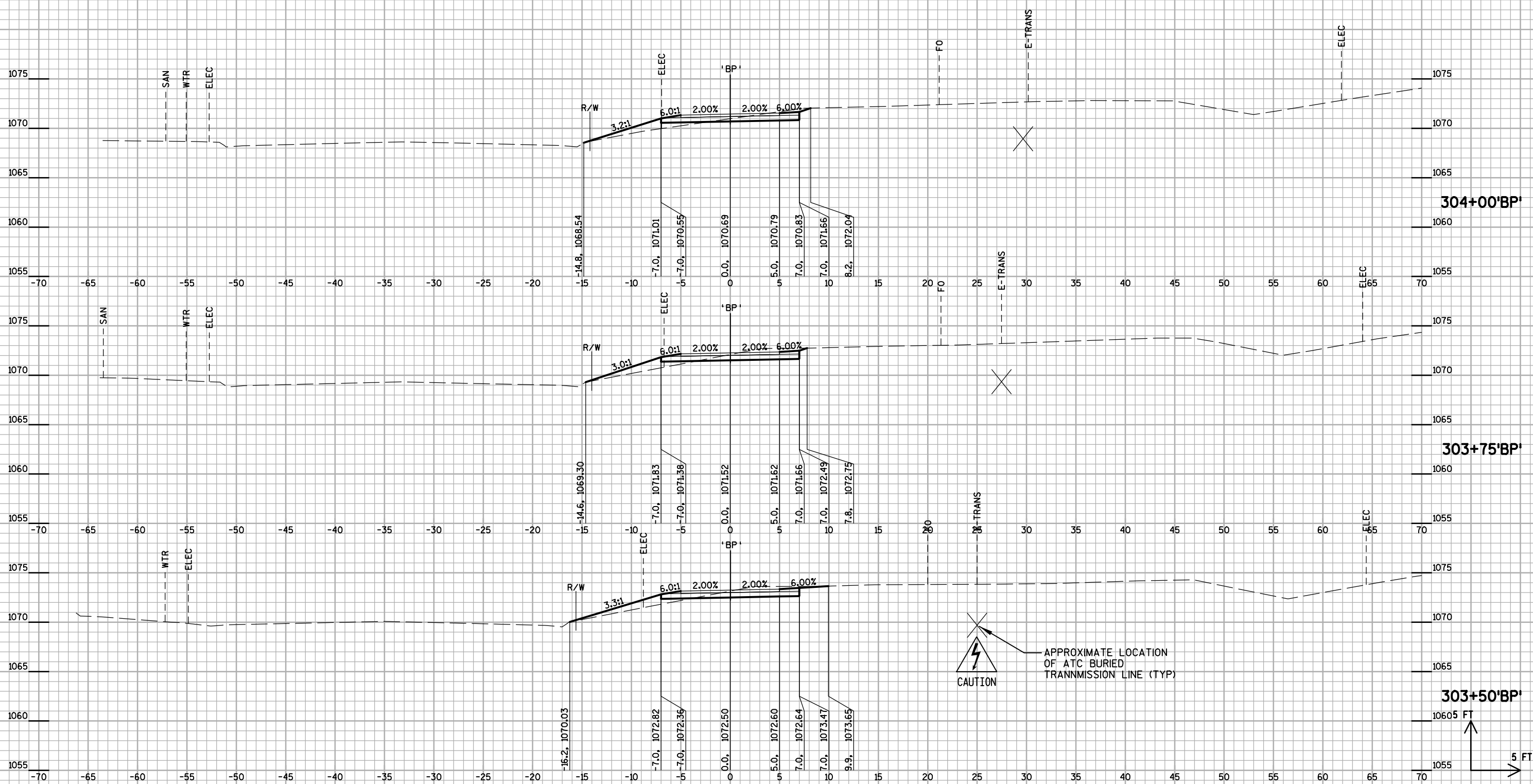
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PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET 616	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 303+50'BP' TO 304+00'BP'

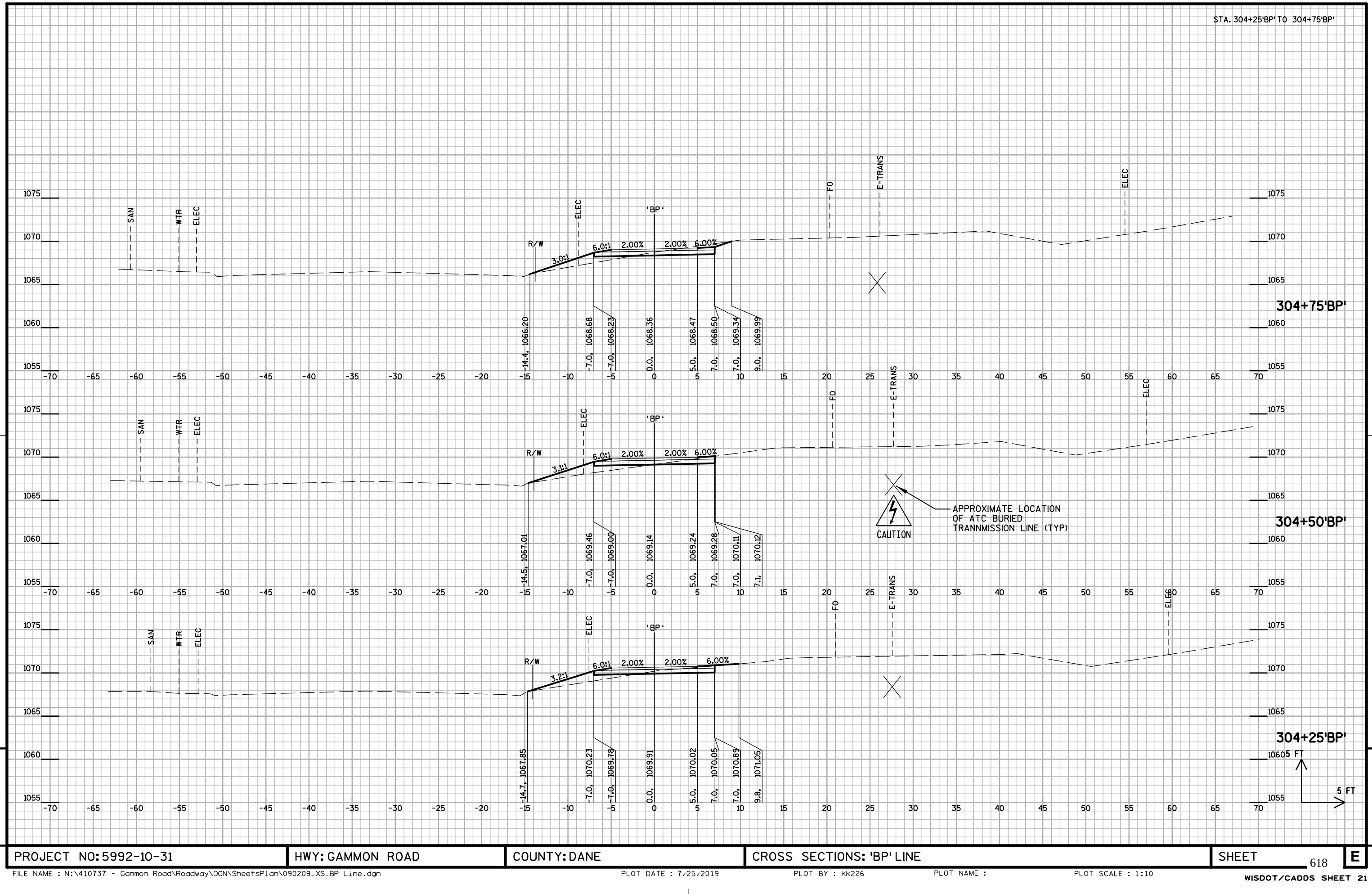


PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 304+25'BP' TO 304+75'BP'

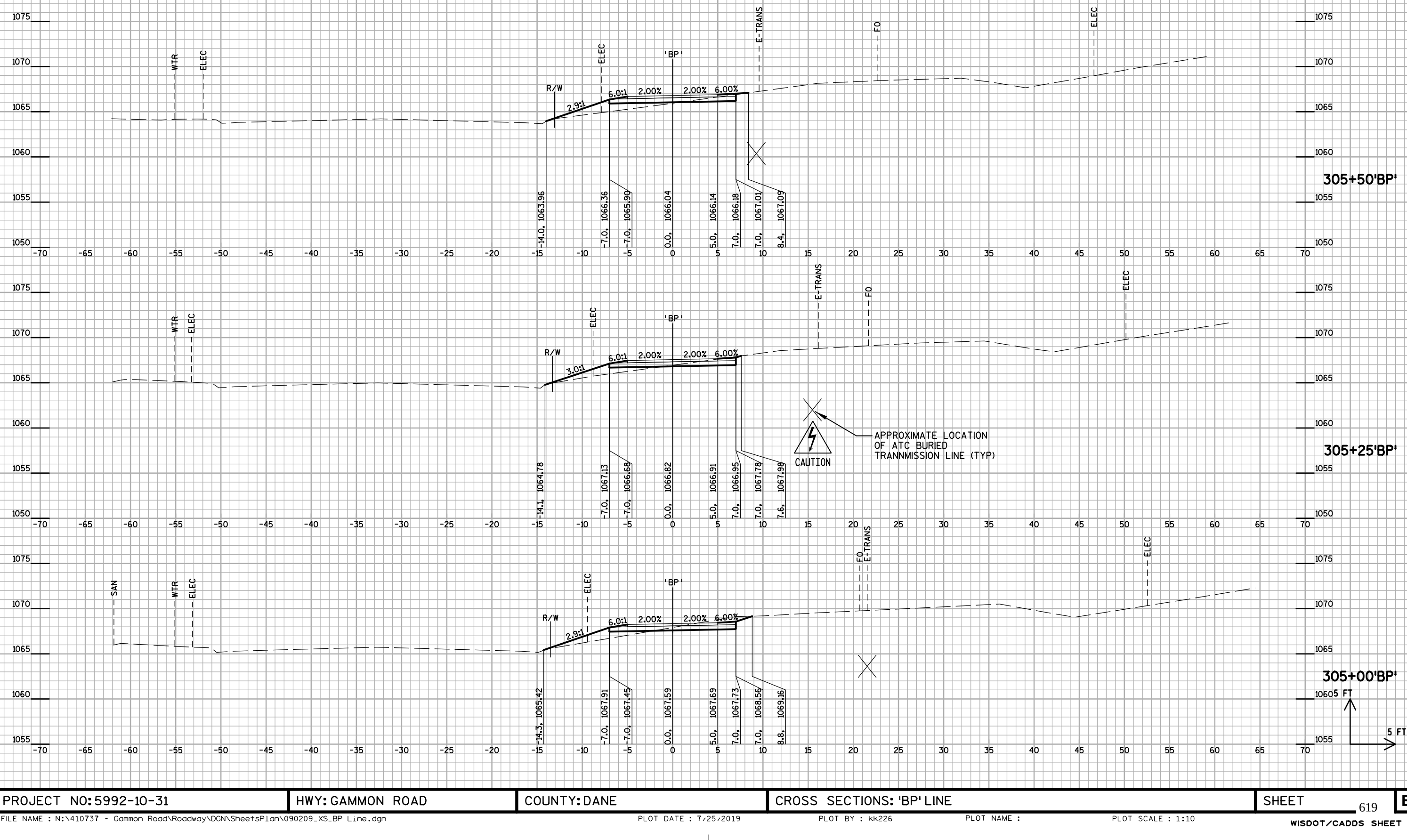


PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 305+00'BP' TO 305+50'BP'



9

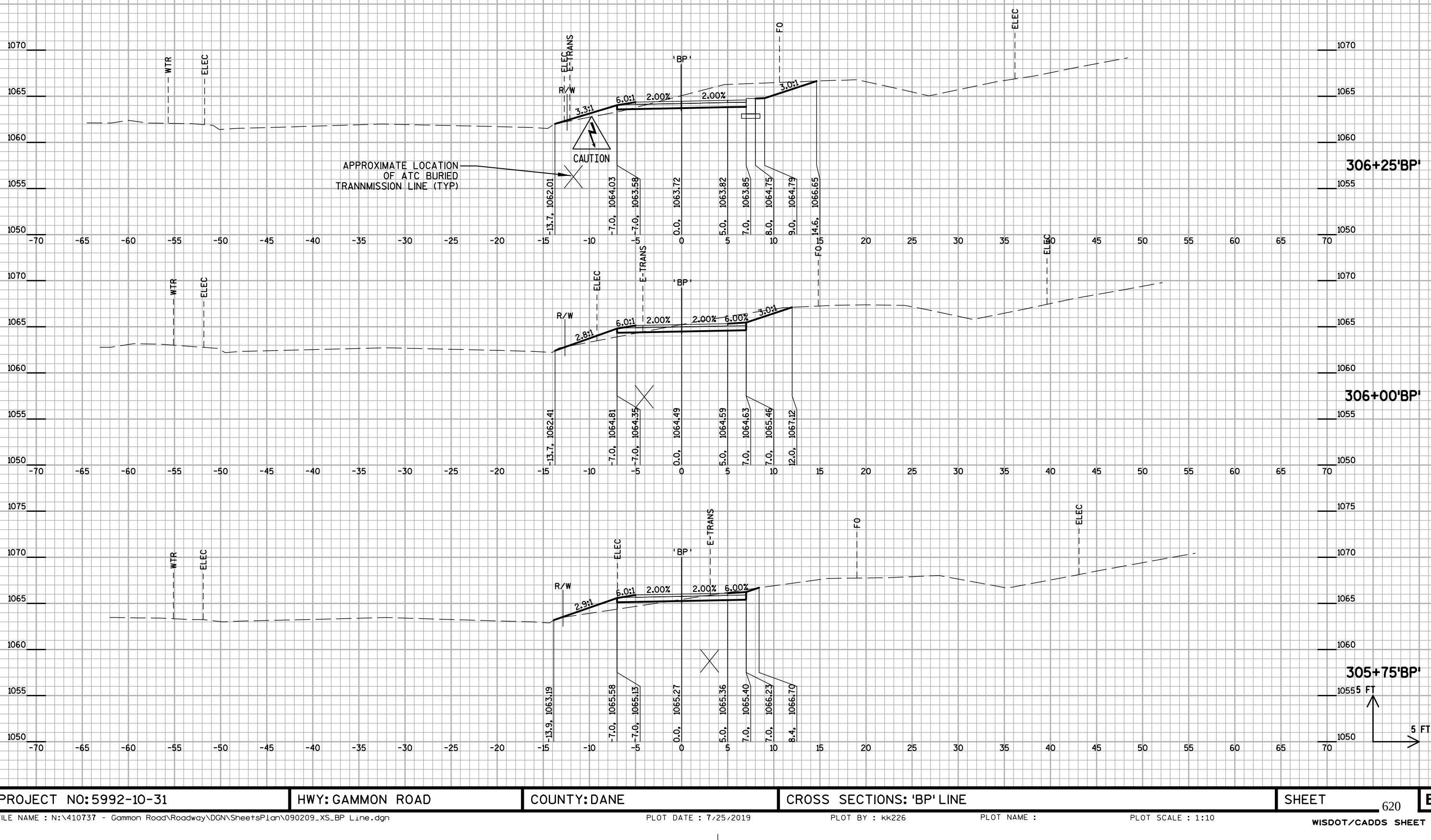
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PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET 619	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 305+75'BP' TO 306+25'BP'

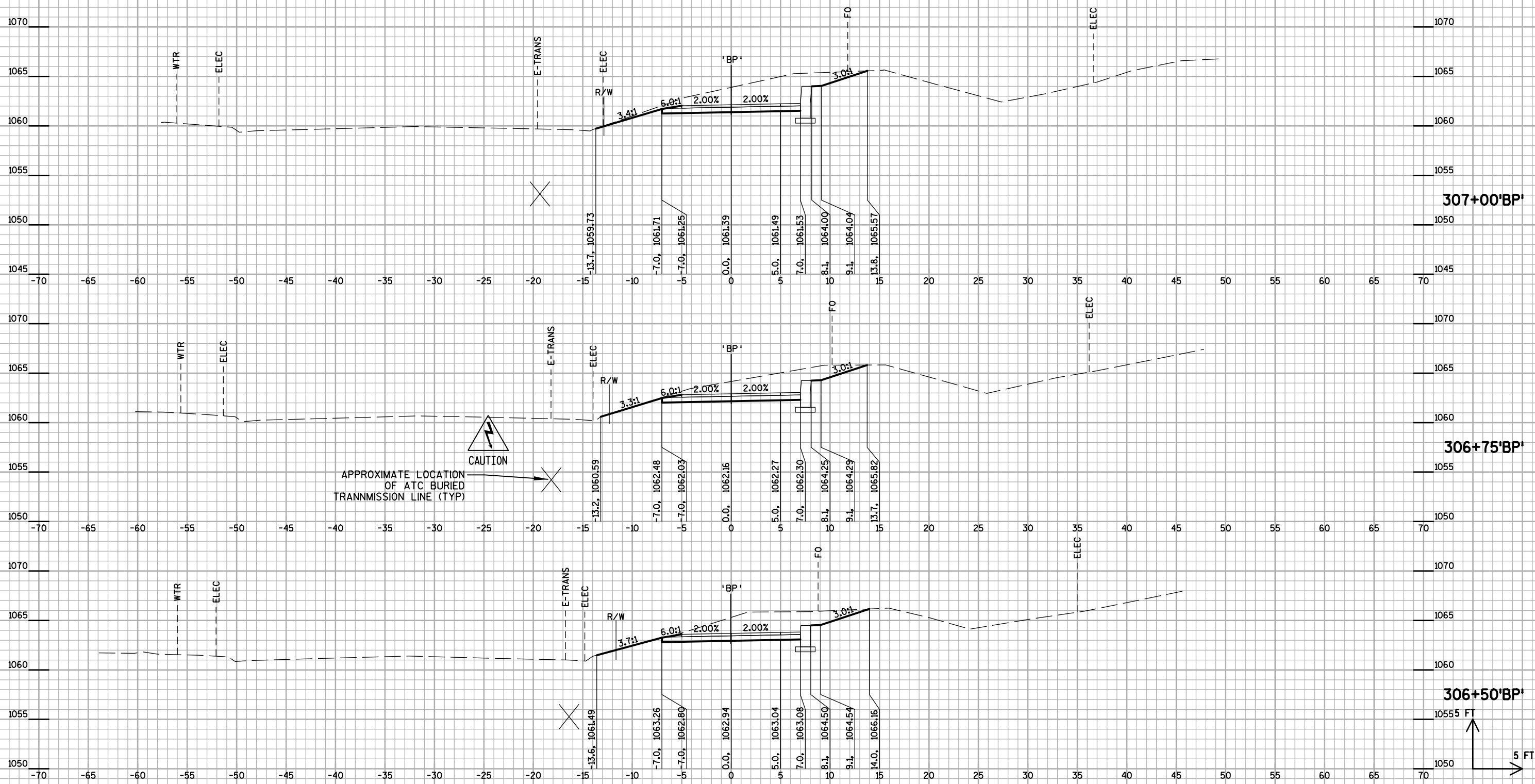


PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 306+50'BP' TO 307+00'BP'

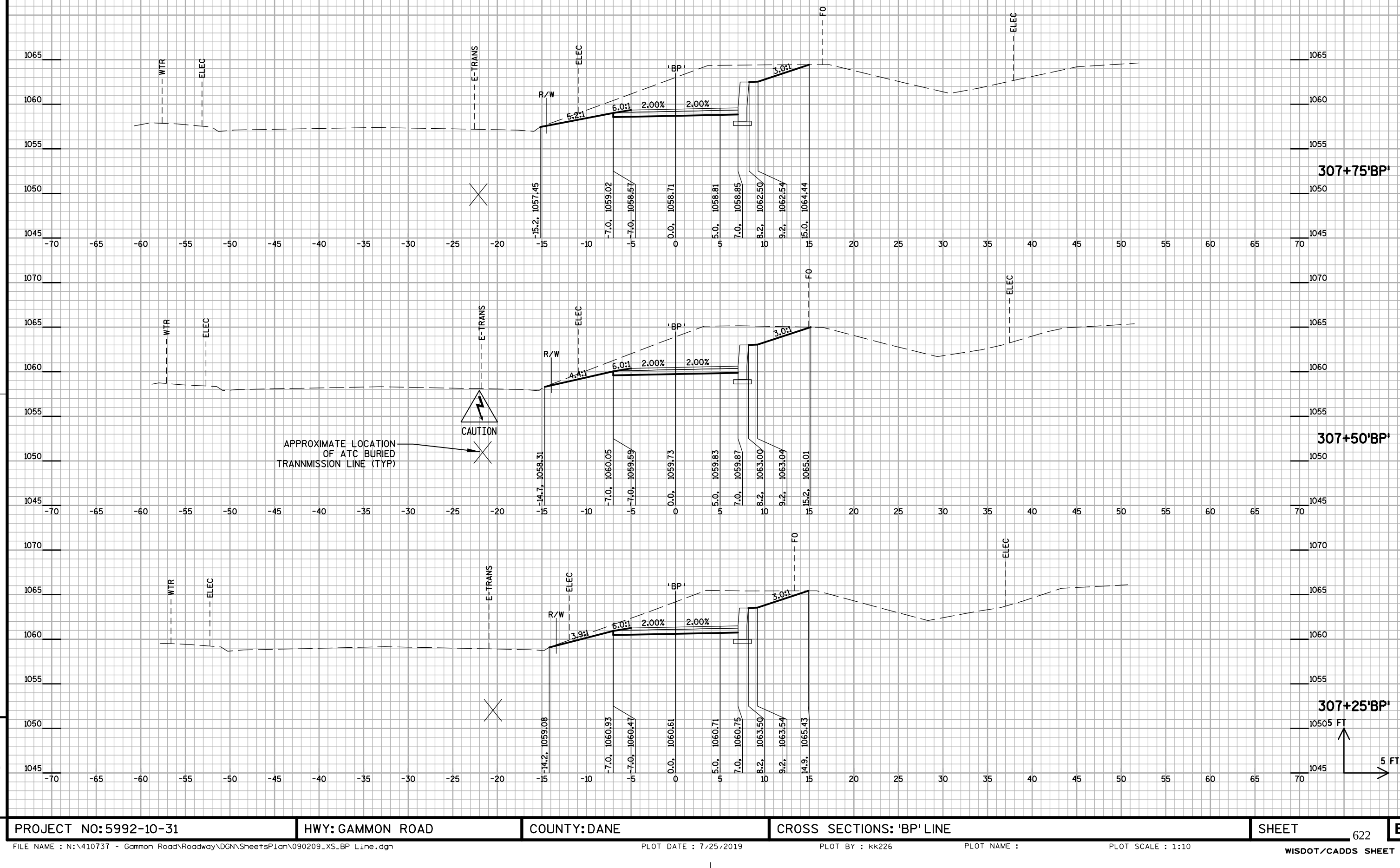


PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn | PLOT DATE : 7/25/2019 | PLOT BY : kk226 | PLOT NAME : | PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 307+25'BP' TO 307+75'BP'

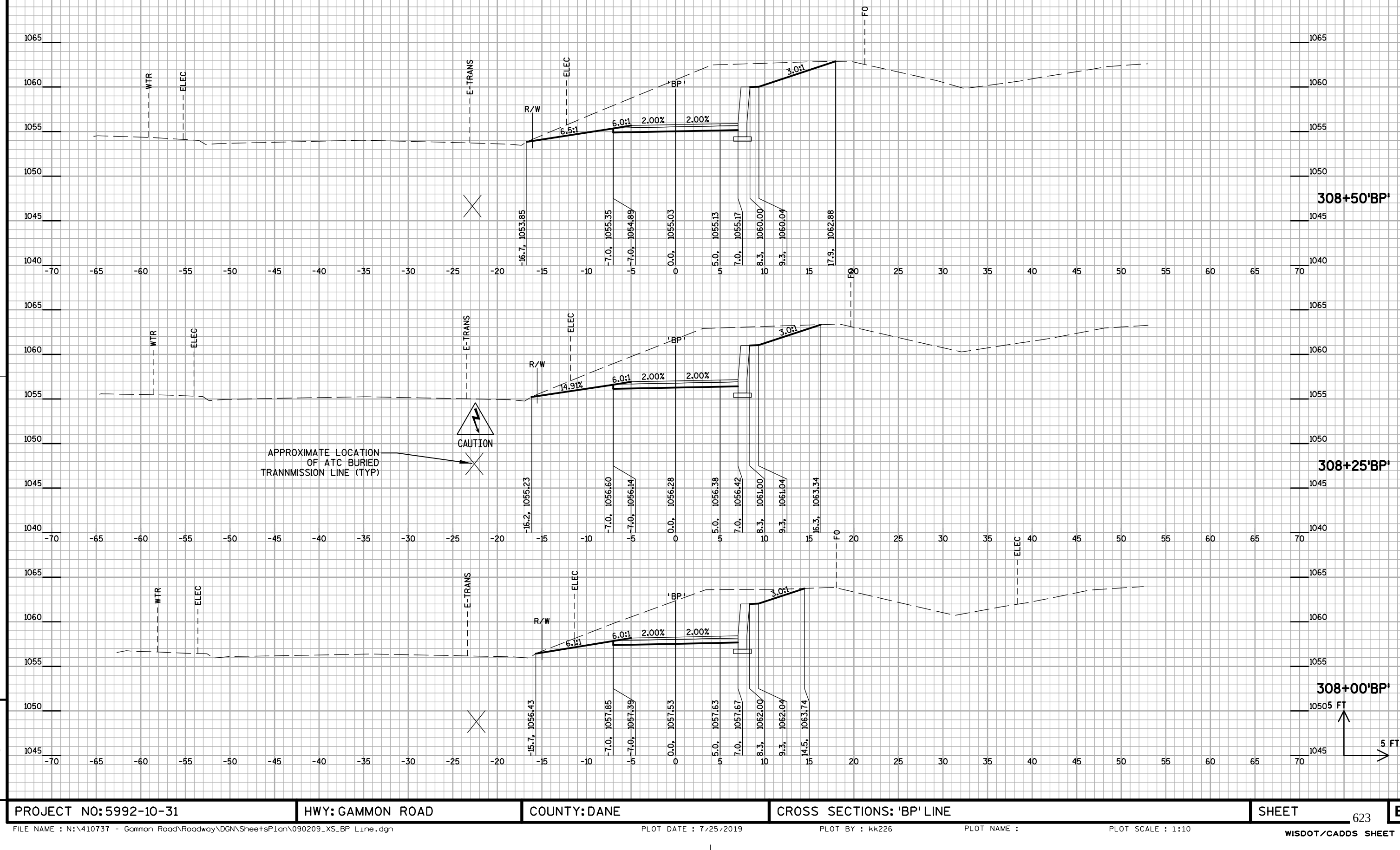


PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 308+00'BP' TO 308+50'BP'

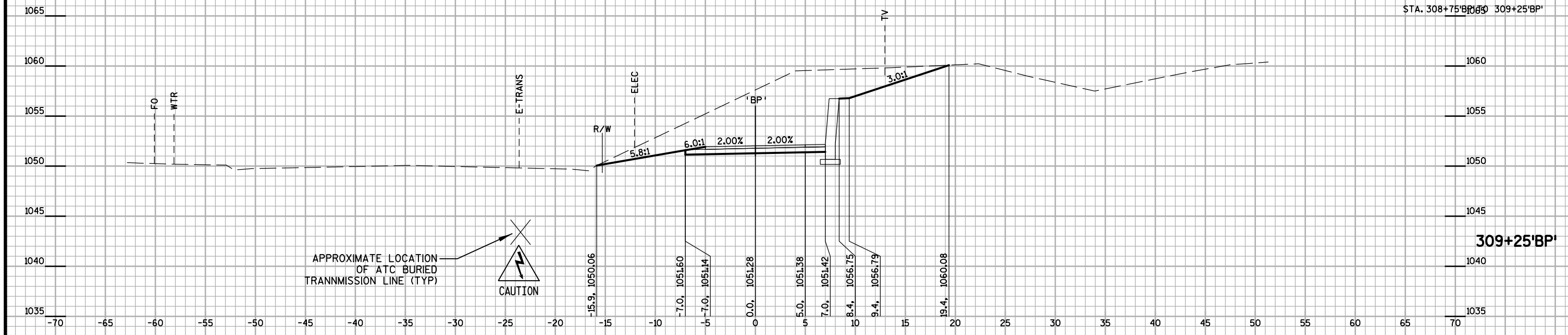


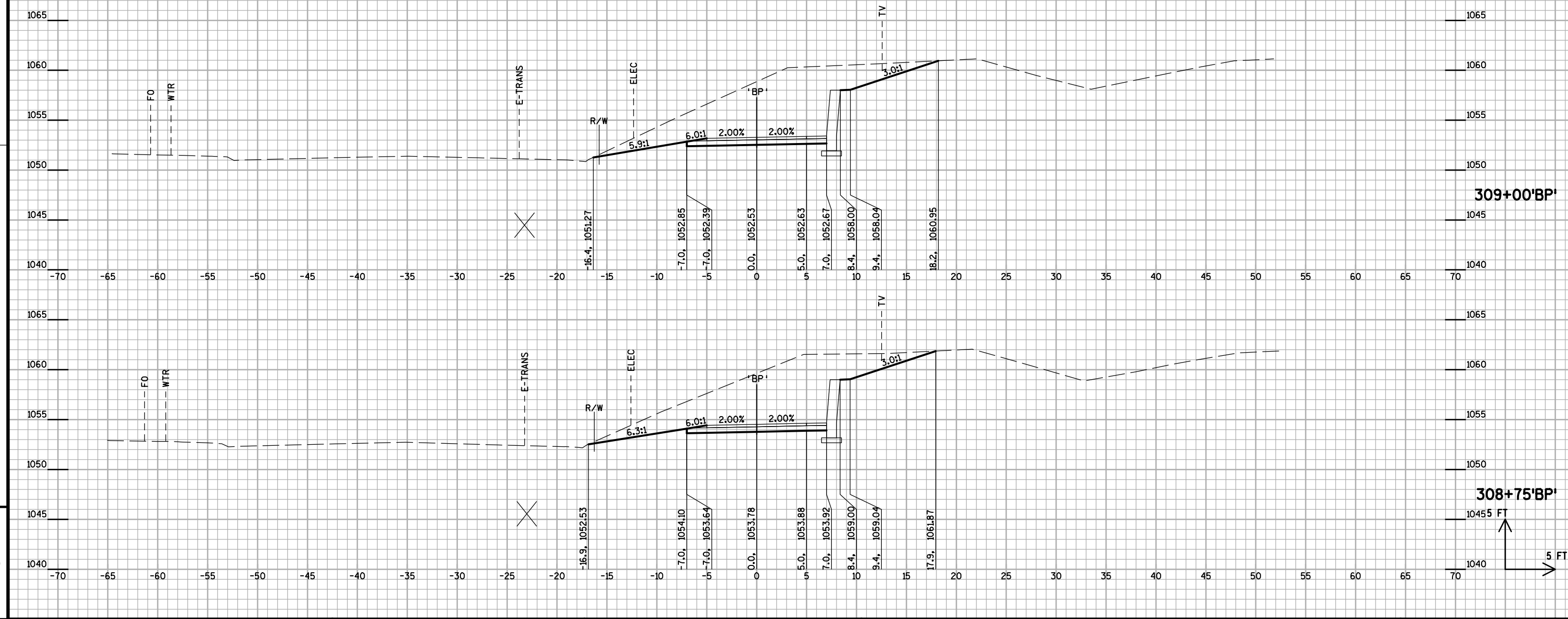
PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 308+75'BP' TO 309+25'BP'





9

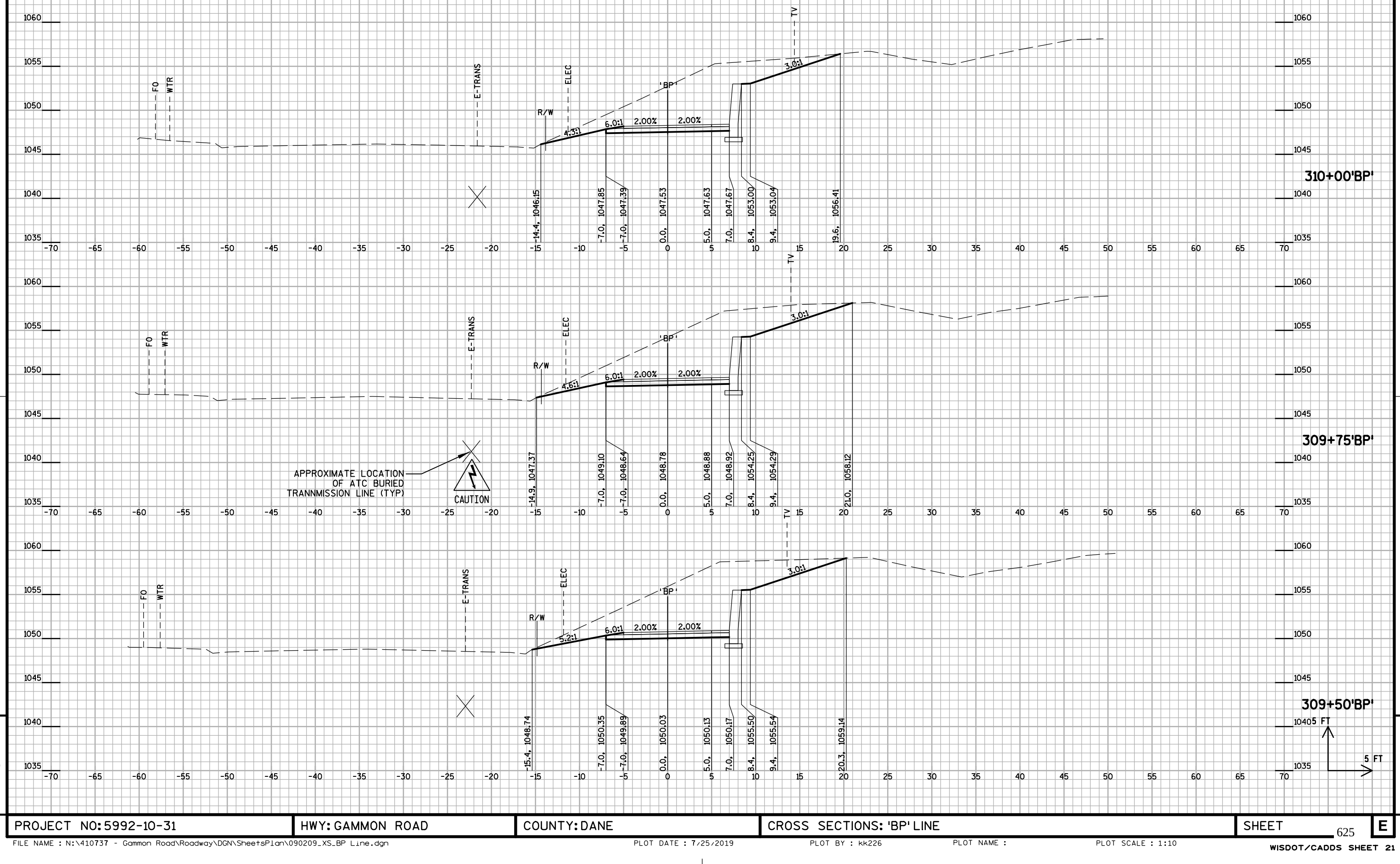
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PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 309+50'BP' TO 310+00'BP'

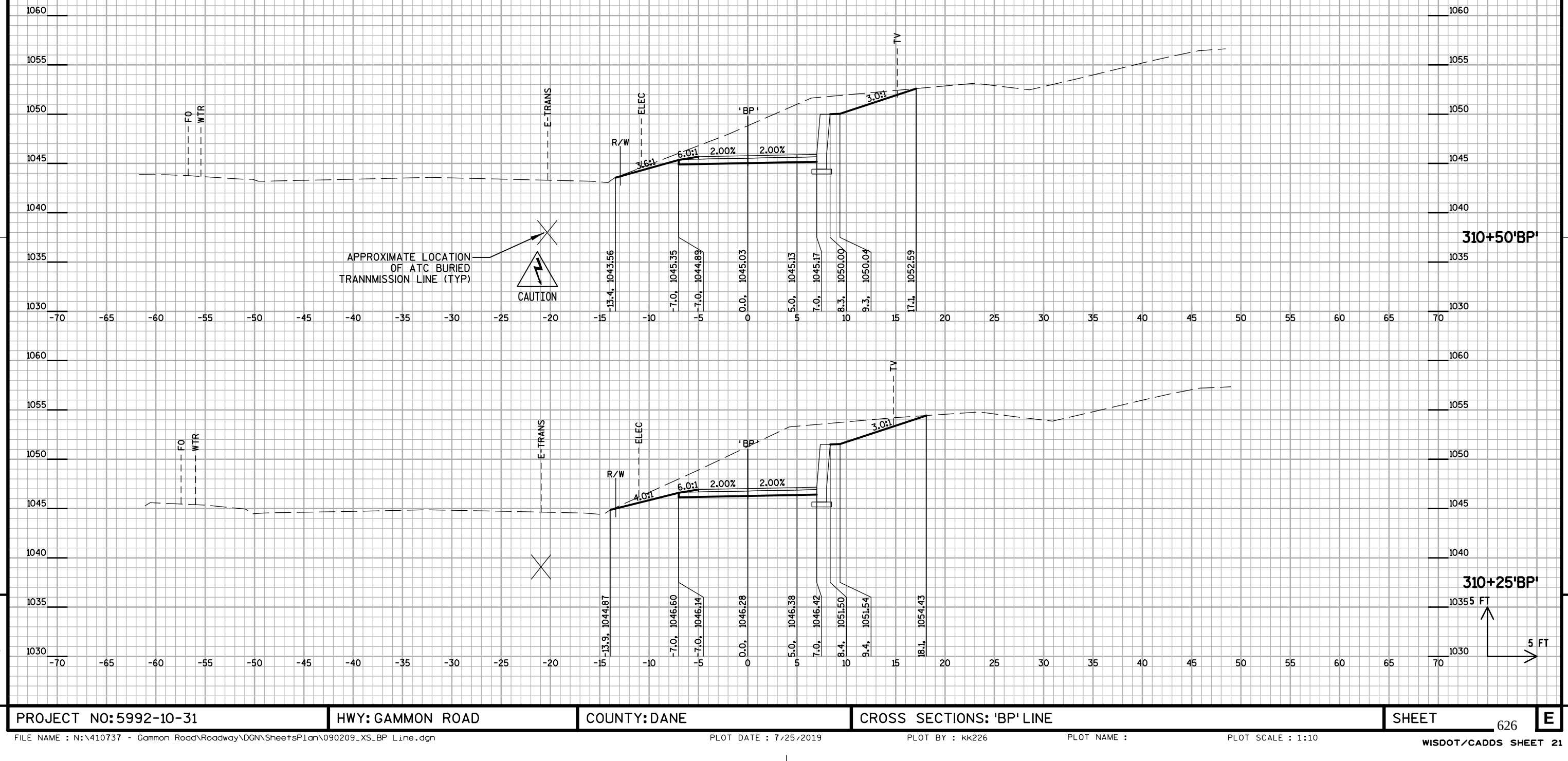


PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET 625	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn | PLOT DATE : 7/25/2019 | PLOT BY : kk226 | PLOT NAME : | PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 310+25'BP' TO 310+50'BP'



9

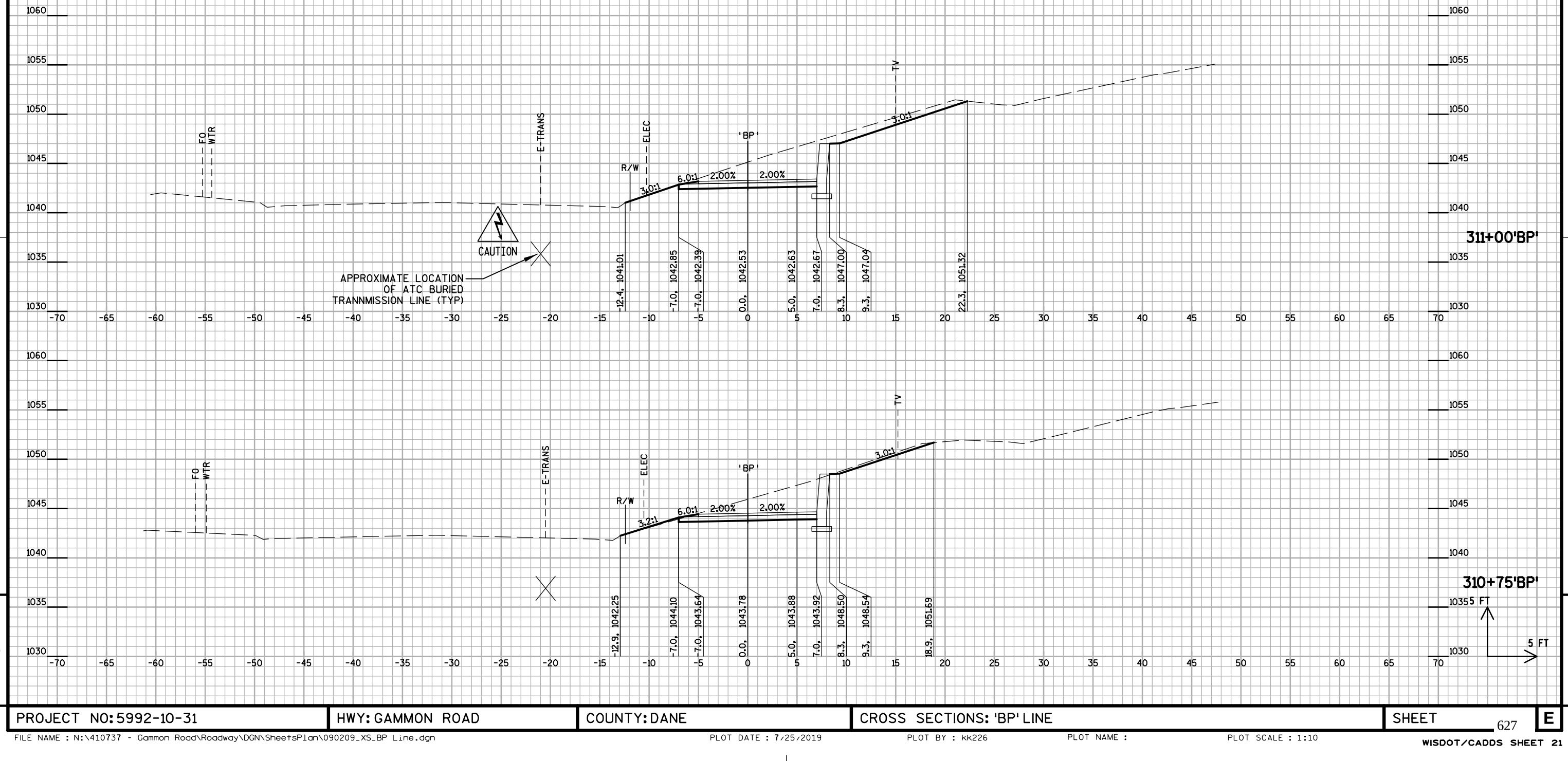
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PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 310+75'BP' TO 311+00'BP'



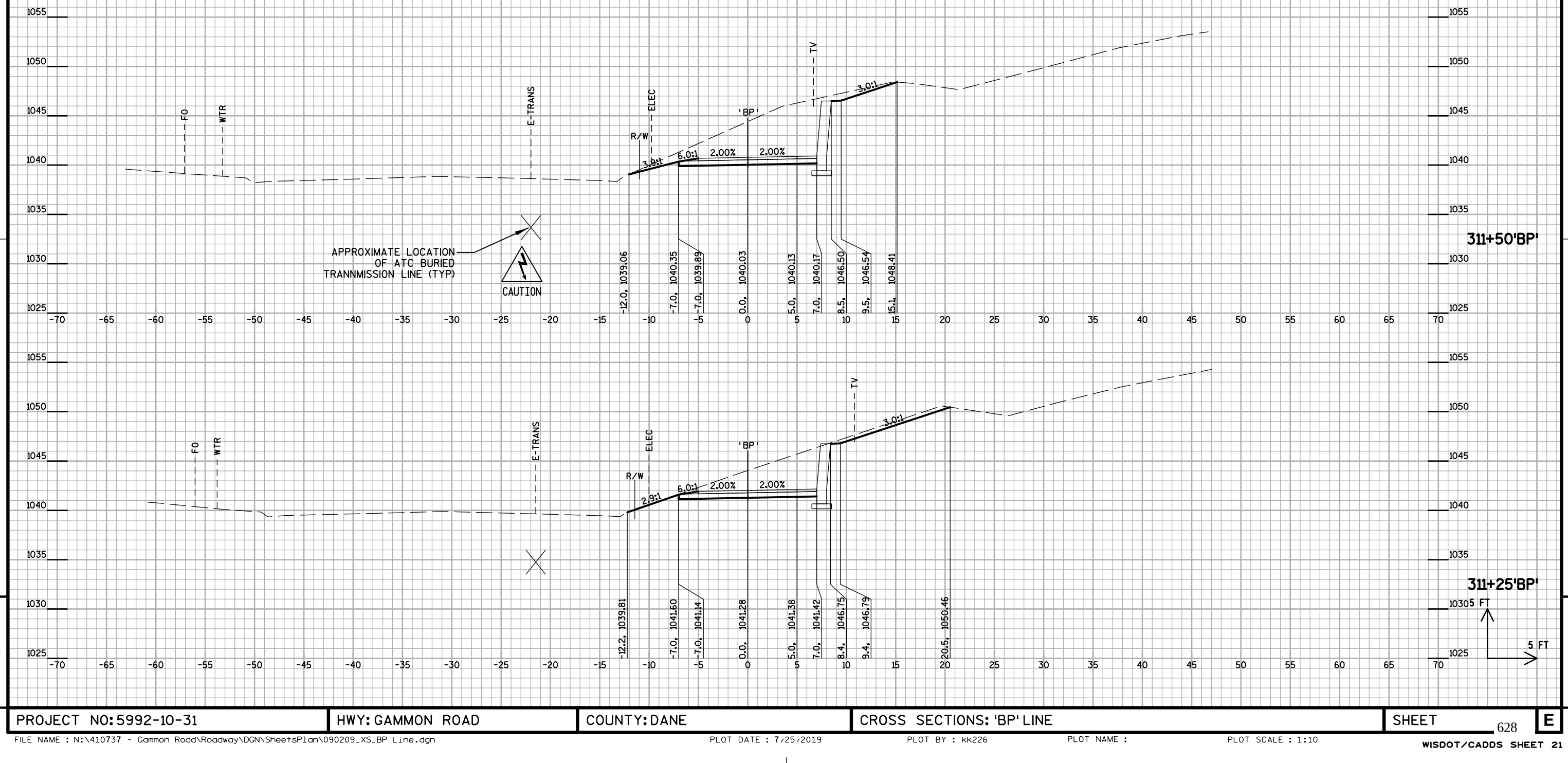
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PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 311+25'BP' TO 311+50'BP'

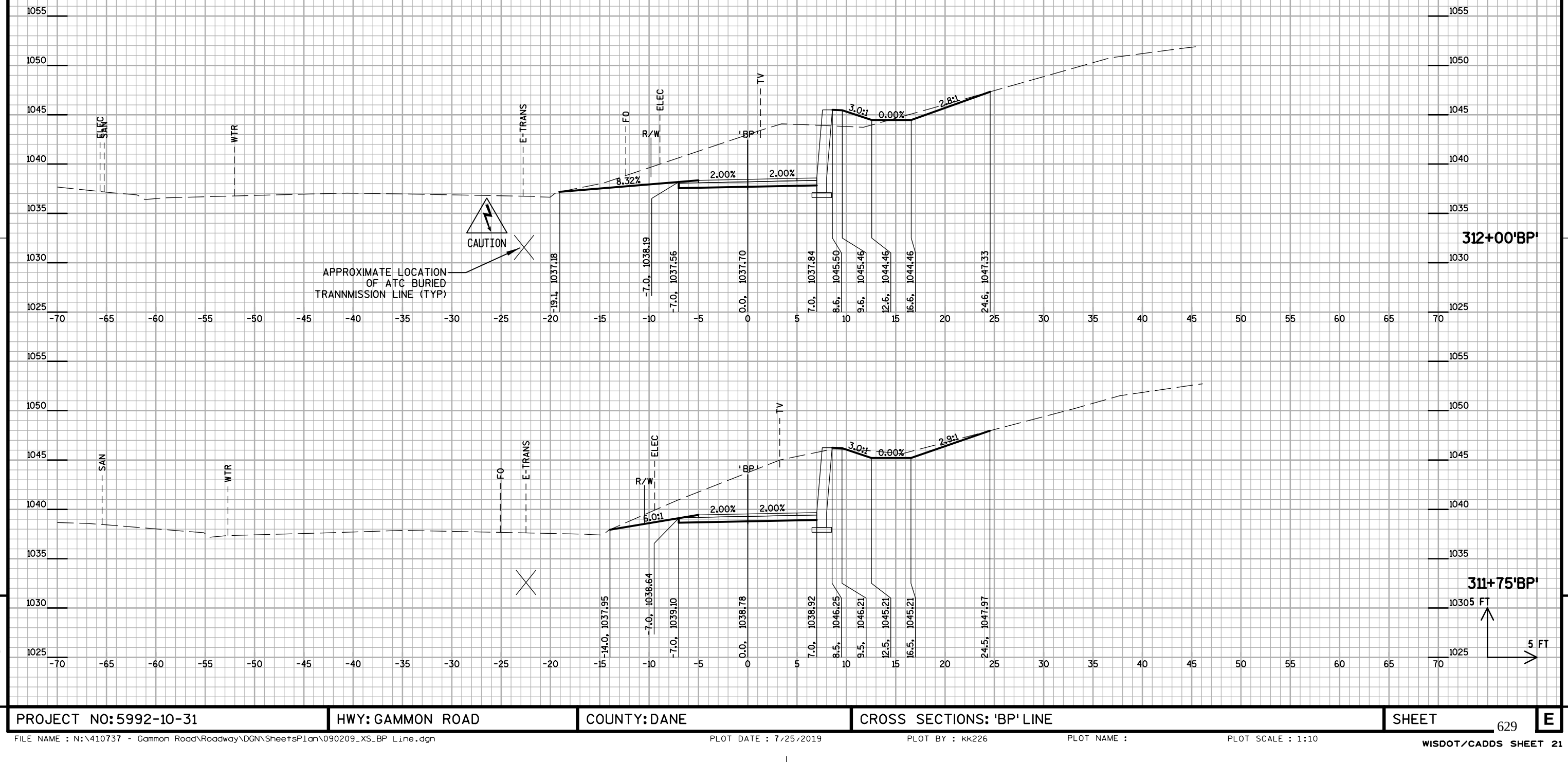


PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 311+75'BP' TO 312+00'BP'



9

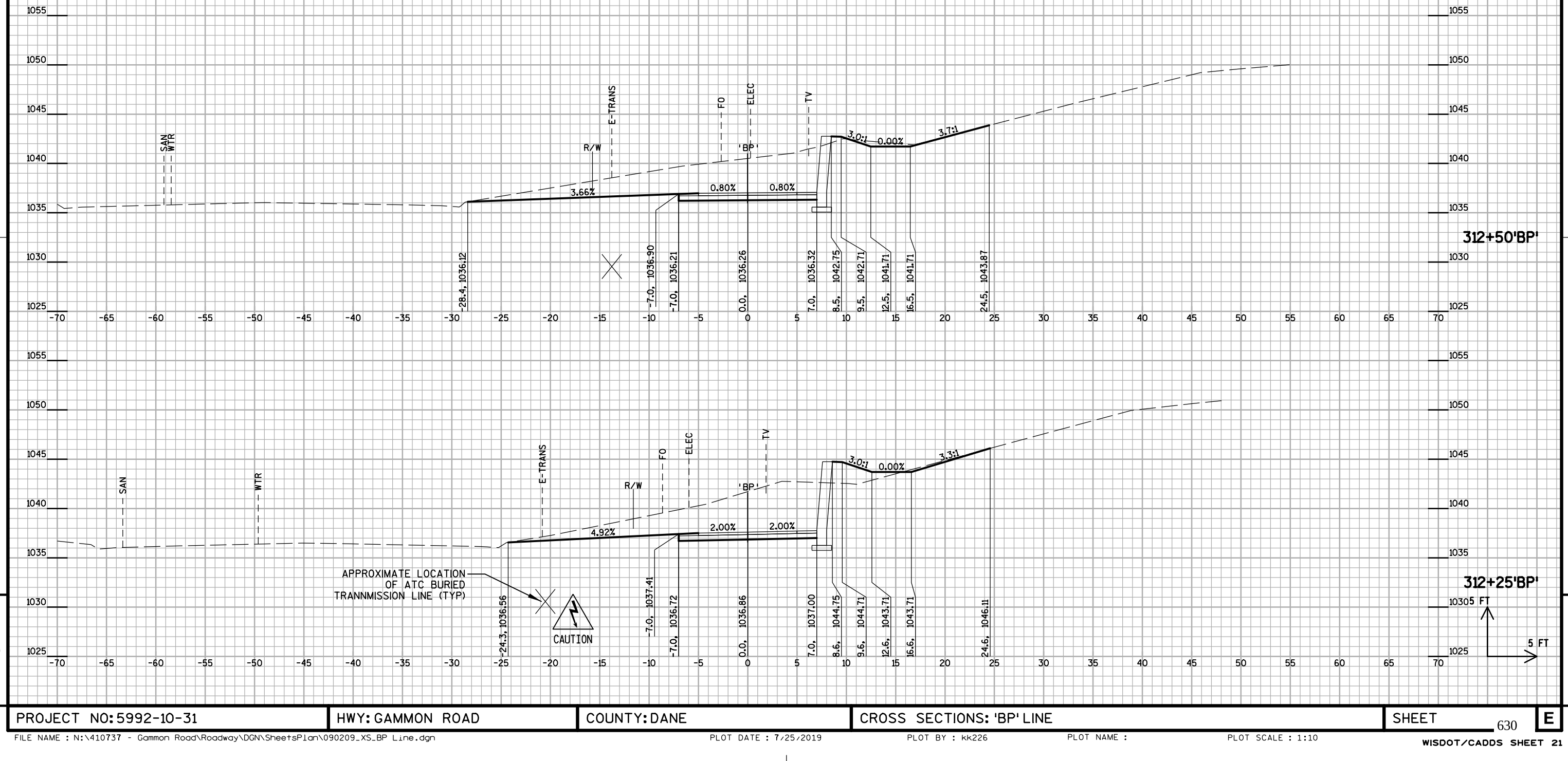
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PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn | PLOT DATE : 7/25/2019 | PLOT BY : kk226 | PLOT NAME : | PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

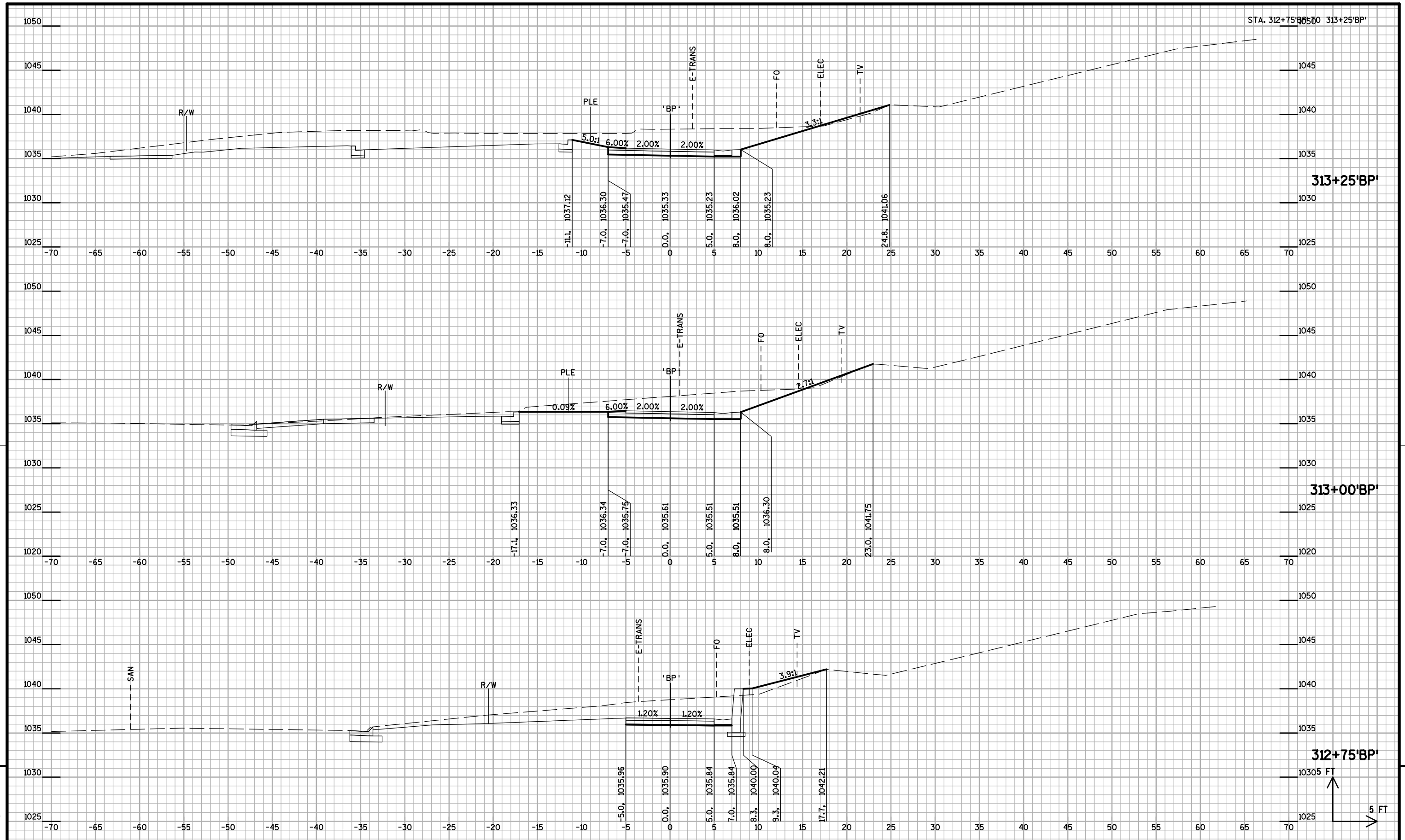
STA. 312+25'BP' TO 312+50'BP'



PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21



9

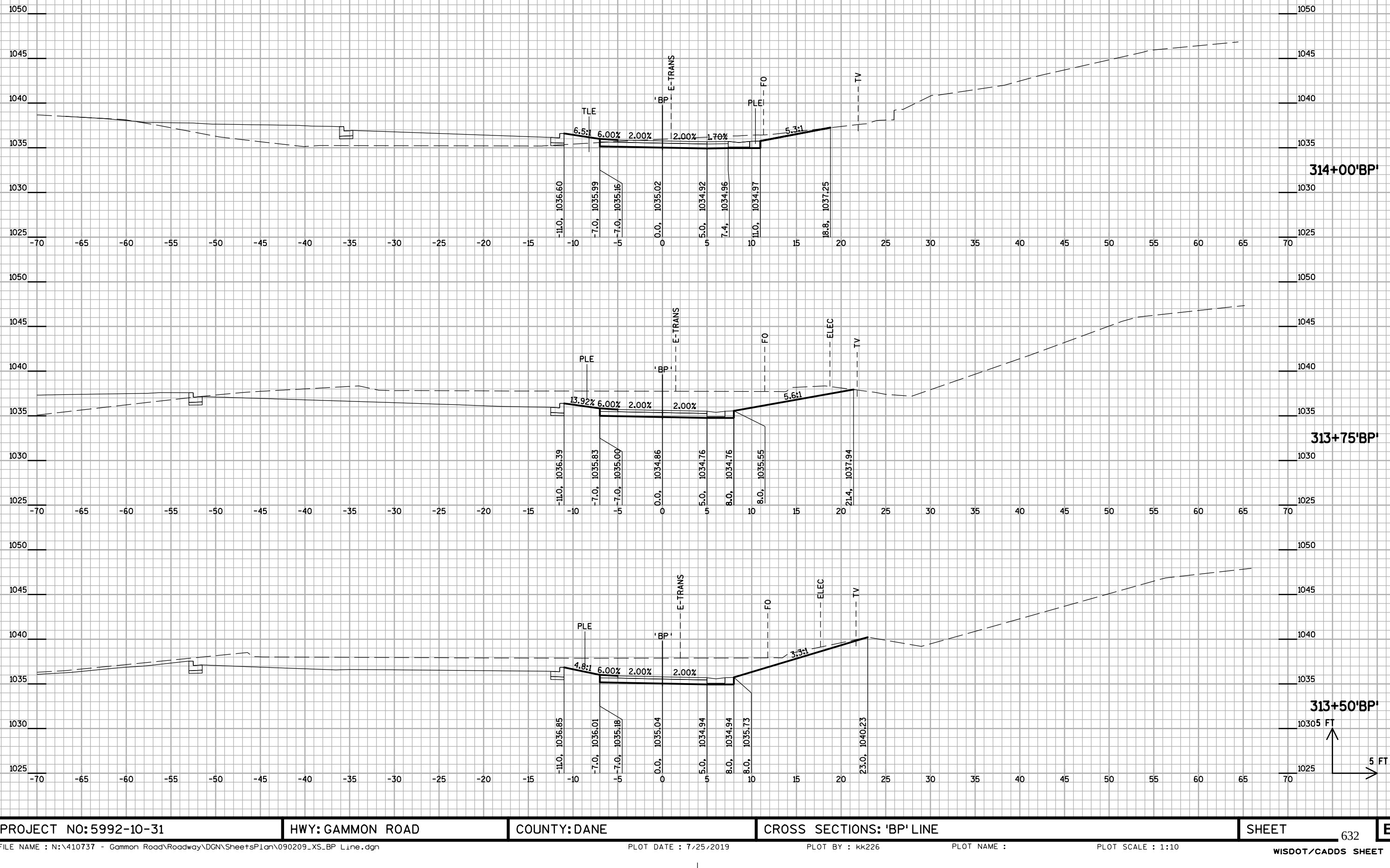
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PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 313+50'BP' TO 314+00'BP'



9

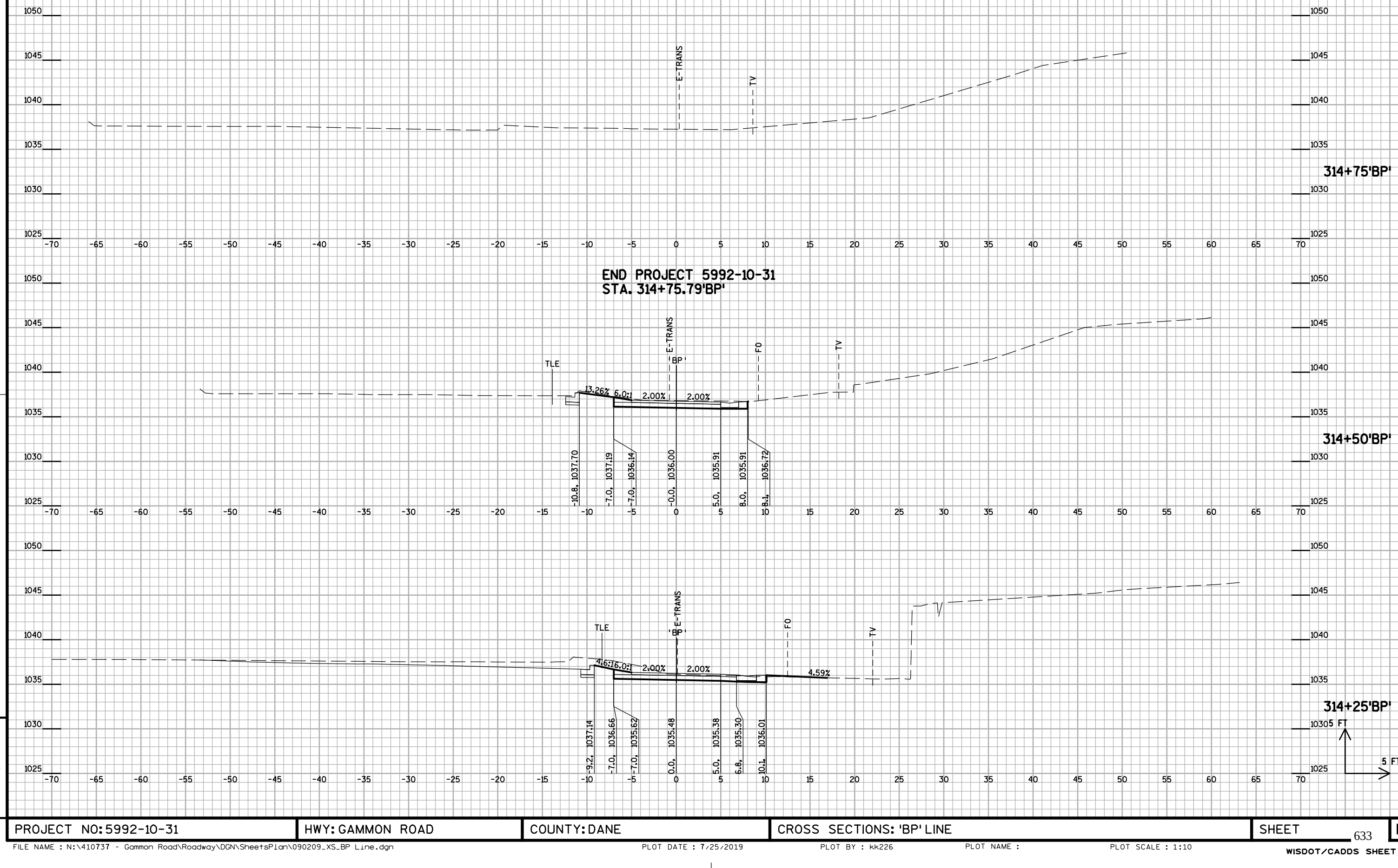
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PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 314+25'BP' TO 314+75'BP'



9

9

PROJECT NO: 5992-10-31	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BP' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090209_XS_BP Line.dgn PLOT DATE : 7/25/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 40+25'BF' TO 41+00'BF'

41+00'BF'

ELEC -22.0, 1077.56 E-TRANS -12.0, 1076.71 FO -12.0, 1075.22 'BF' 0.0, 1074.98 ELEC 2.0, 1075.39 WTR 11.6, 1072.16
'BP' 6.6:1 6.00% 2.00% 6.0:1 3.0:1

40+75'BF'

ELEC -22.0, 1078.02 E-TRANS -12.0, 1075.88 FO -12.0, 1077.31 'BF' 0.0, 1075.64 ELEC 2.0, 1076.05 WTR 12.6, 1072.34
'BP' 13.11% 6.00% 2.00% 6.0:1 2.9:1

40+50'BF'

ELEC -22.0, 1077.87 E-TRANS -12.0, 1076.48 FO -12.0, 1077.67 'BF' 0.0, 1076.24 ELEC 2.0, 1076.66 WTR 13.6, 1072.98
'BP' 5.58% 6.00% 2.00% 6.0:1 3.2:1

40+25'BF'

ELEC -18.8, 1077.89 E-TRANS -12.0, 1076.92 FO -12.0, 1077.37 'BF' 0.0, 1076.68 ELEC 2.0, 1077.37 WTR 14.6, 1077.08
'BP' 3.19% 2.00% 3.16% 2.28%

APPROXIMATE LOCATION OF ATC BURIED TRANNMISSION LINE (TYP)

CAUTION

5 FT

5 FT

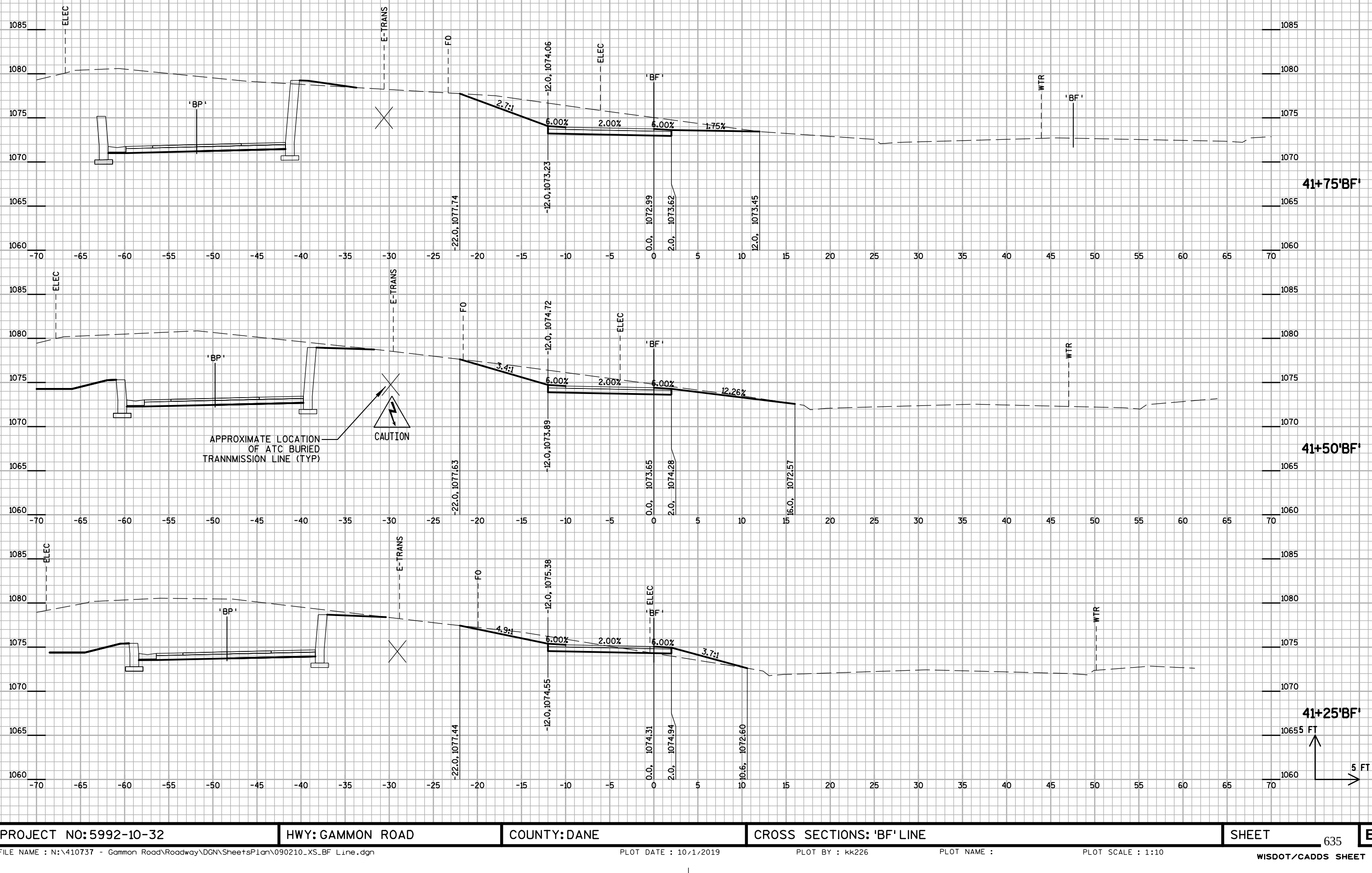
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9

PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BF' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090210_XS_BF Line.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

STA. 41+25'BF' TO 41+75'BF'

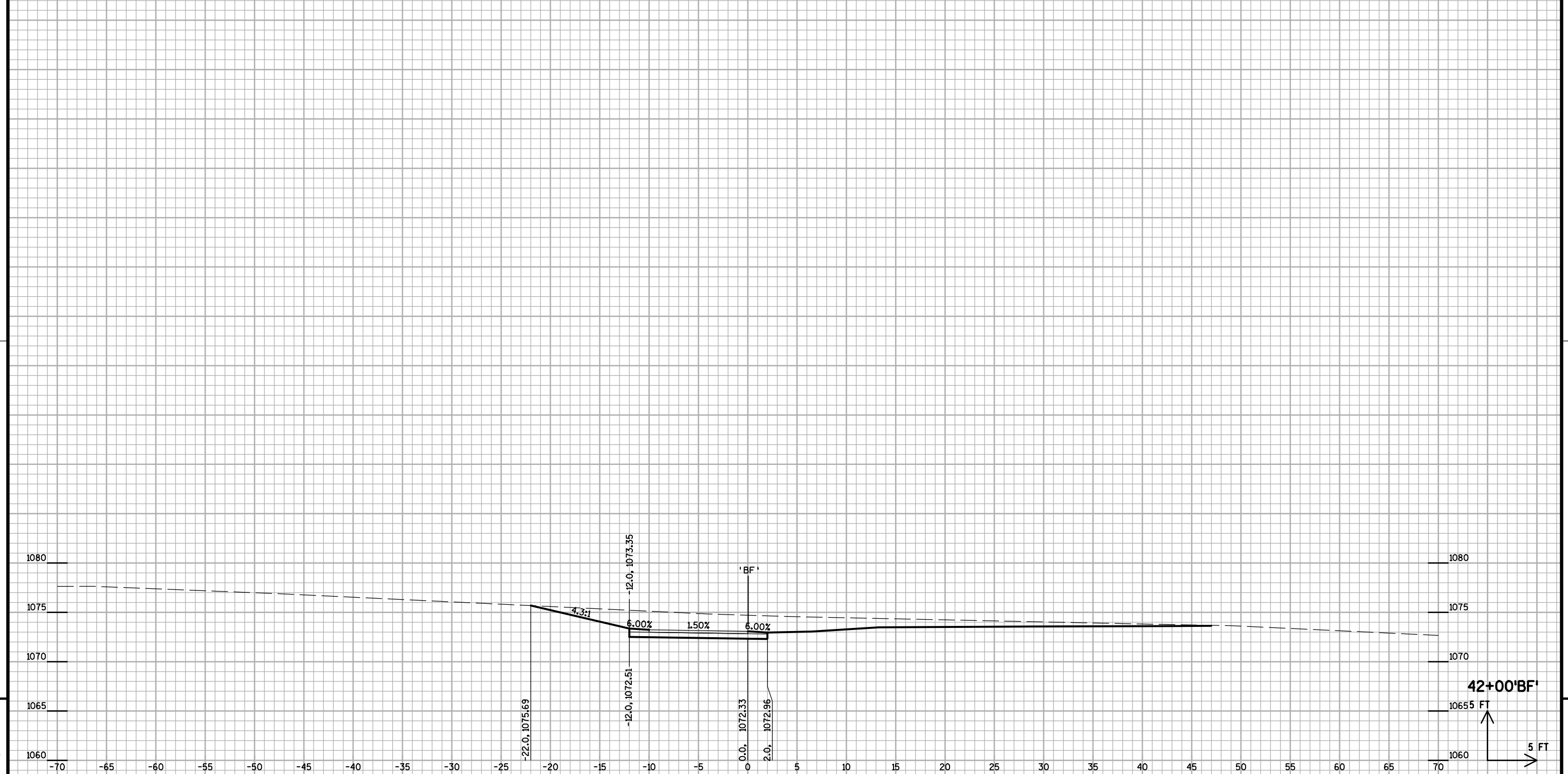


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BF' LINE	SHEET 635	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090210_XS_BF Line.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 42+00'BF' TO 42+00'BF'



9

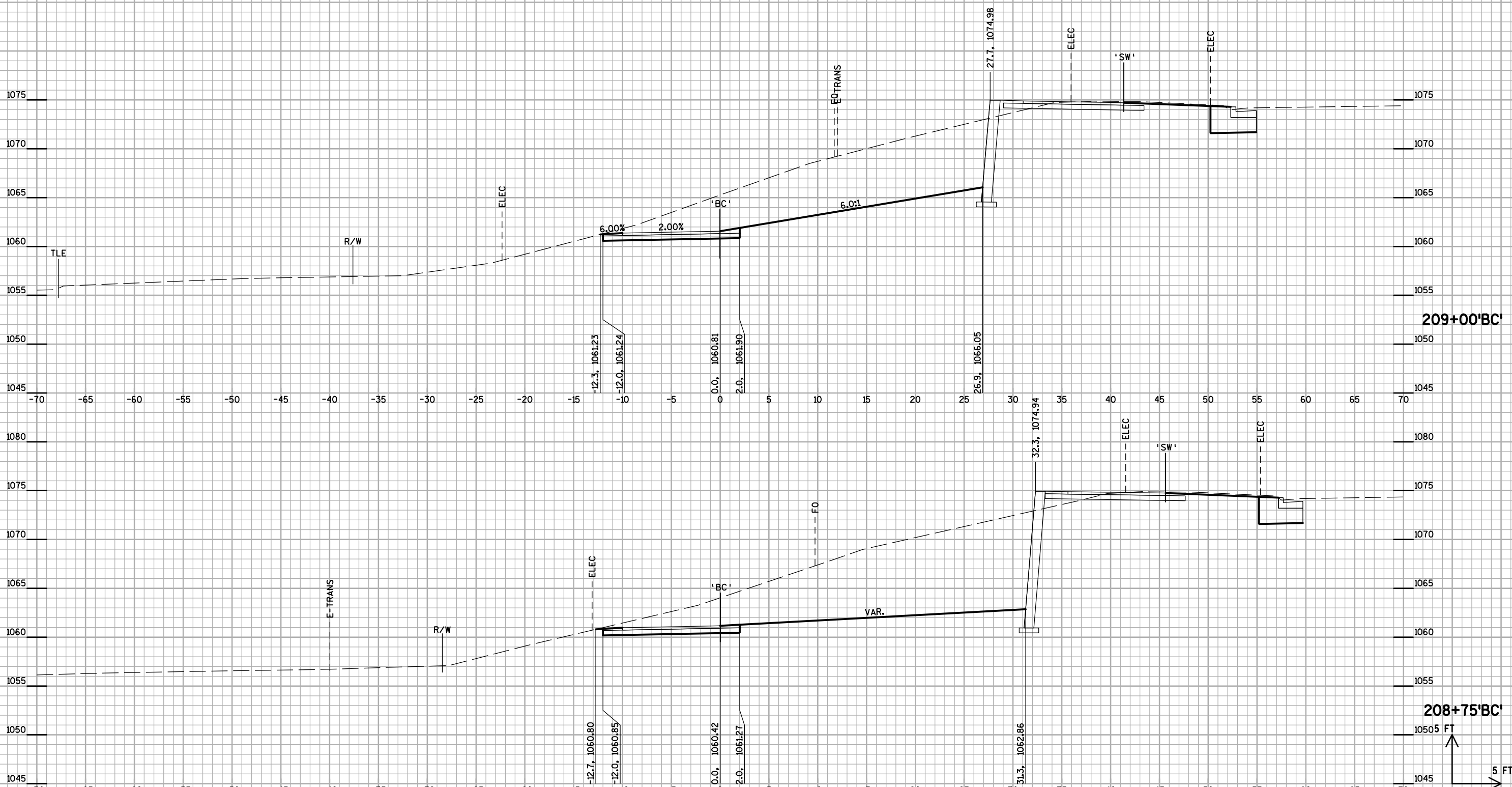
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PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BF' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090210_XS_BF Line.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 208+75'BC' TO 209+00'BC'

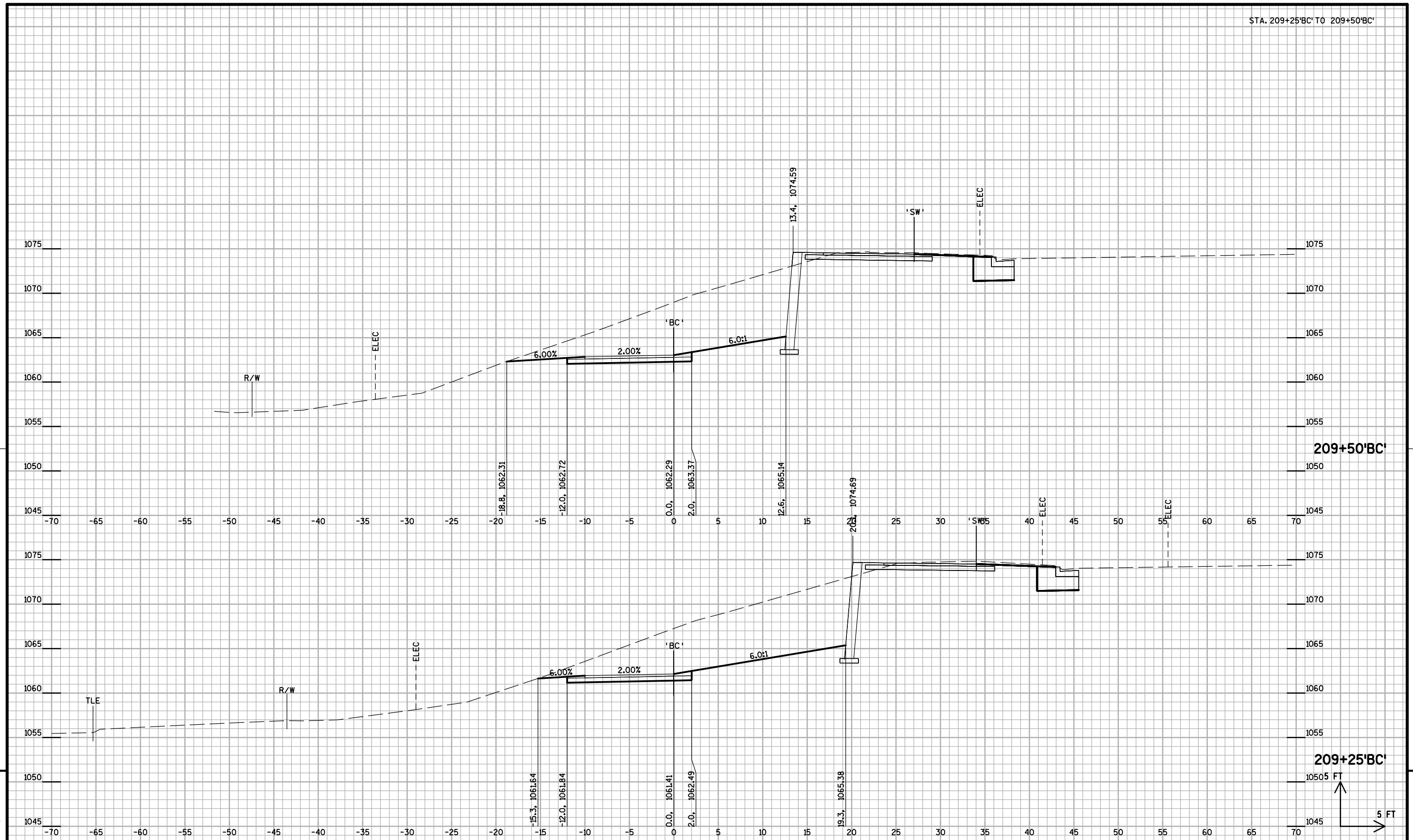


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BC' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090211_XS_BC Line.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 209+25'BC' TO 209+50'BC'



9

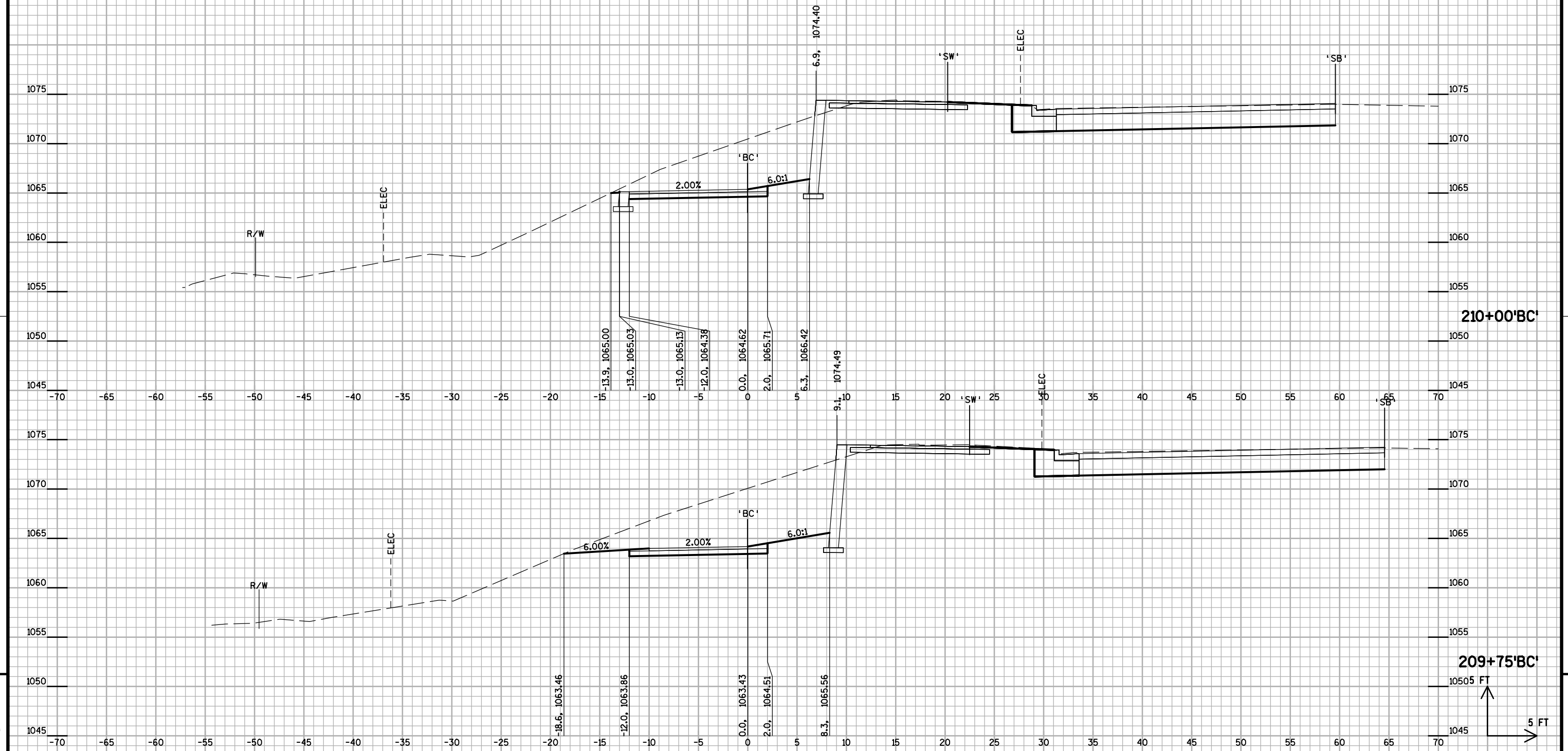
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PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BC' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090211_XS_BC Line.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 209+75'BC' TO 210+00'BC'

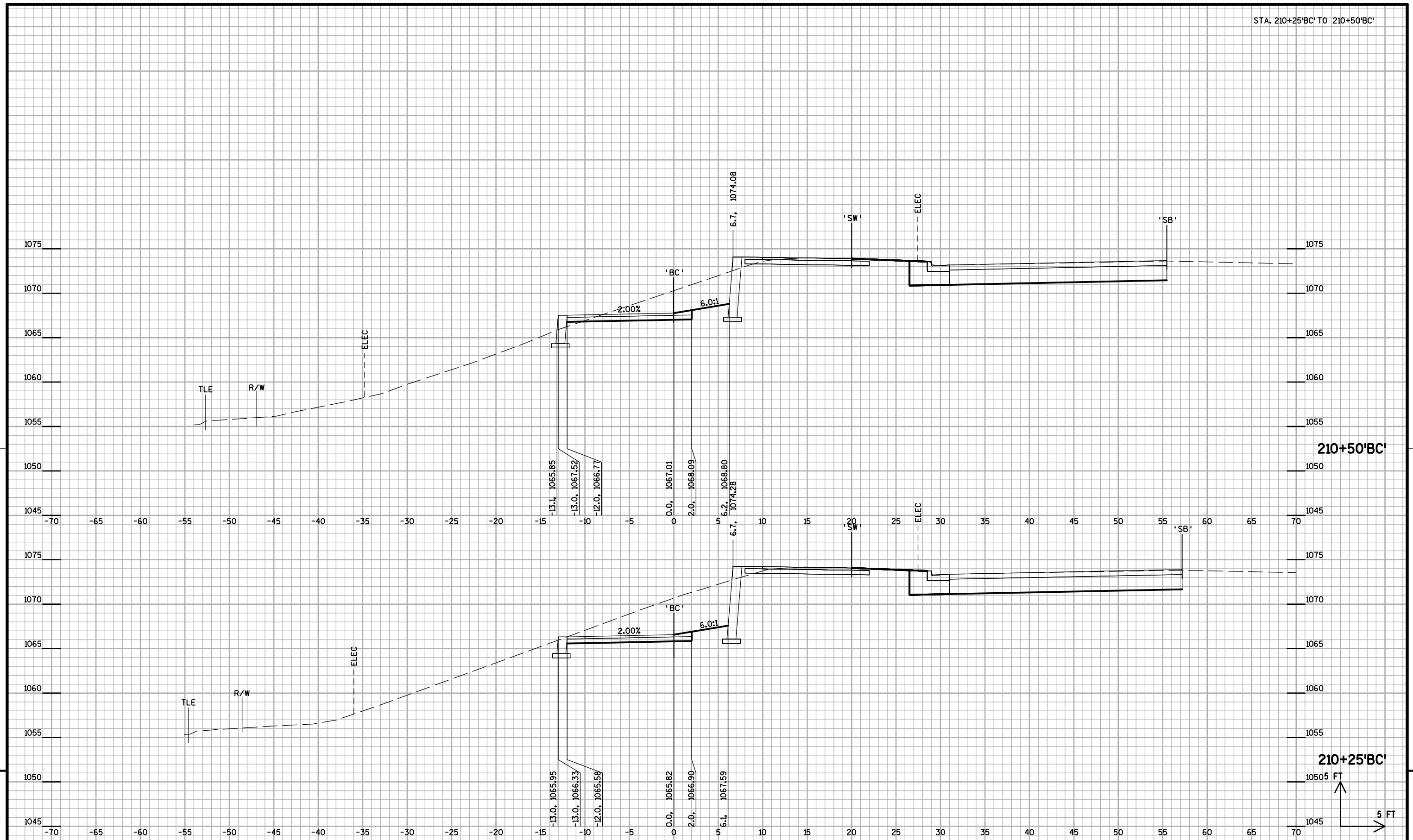


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BC' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090211_XS_BC Line.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 210+25'BC' TO 210+50'BC'



9

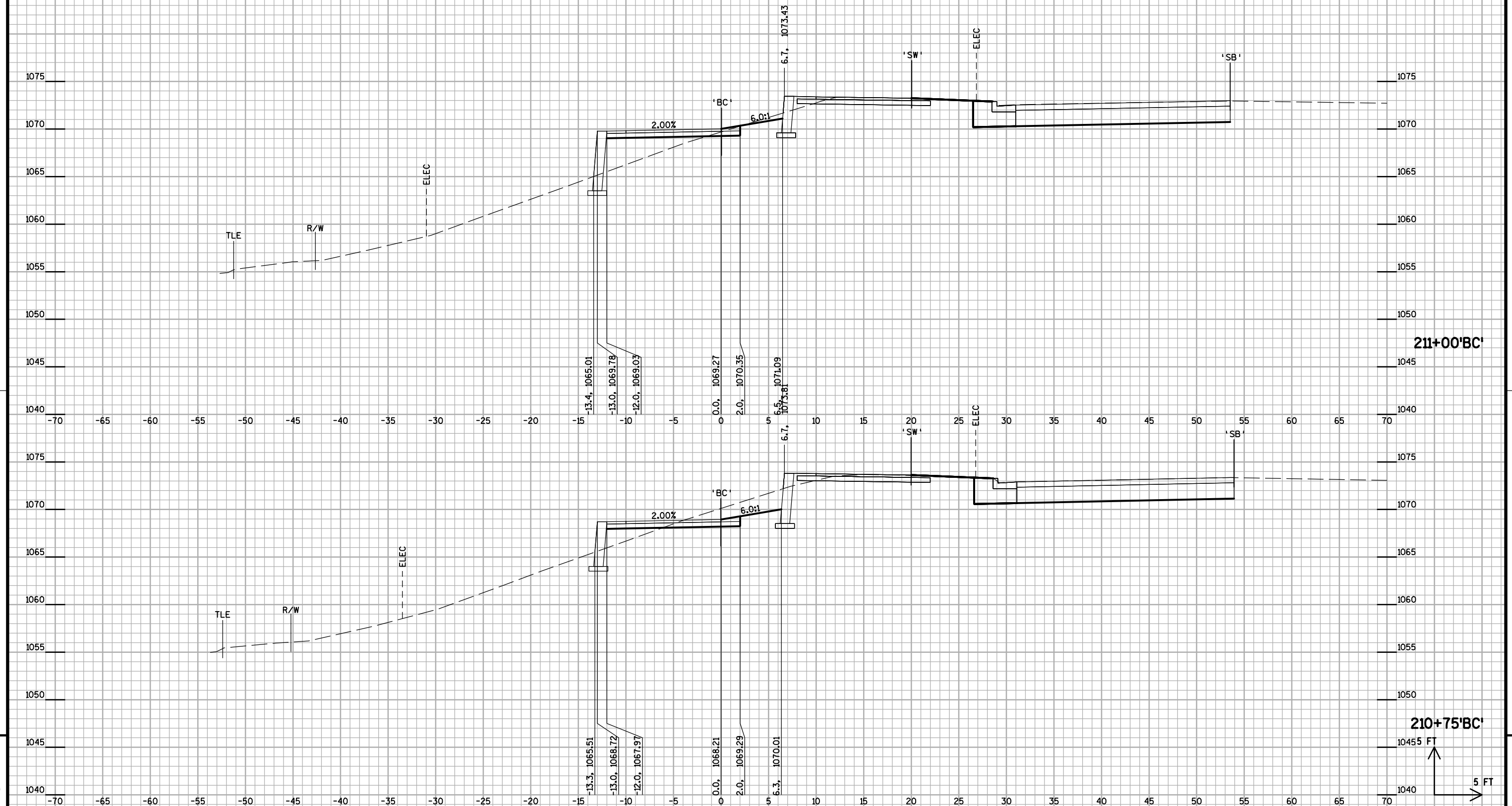
9

PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BC' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090211_XS_BC Line.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 210+75'BC' TO 211+00'BC'

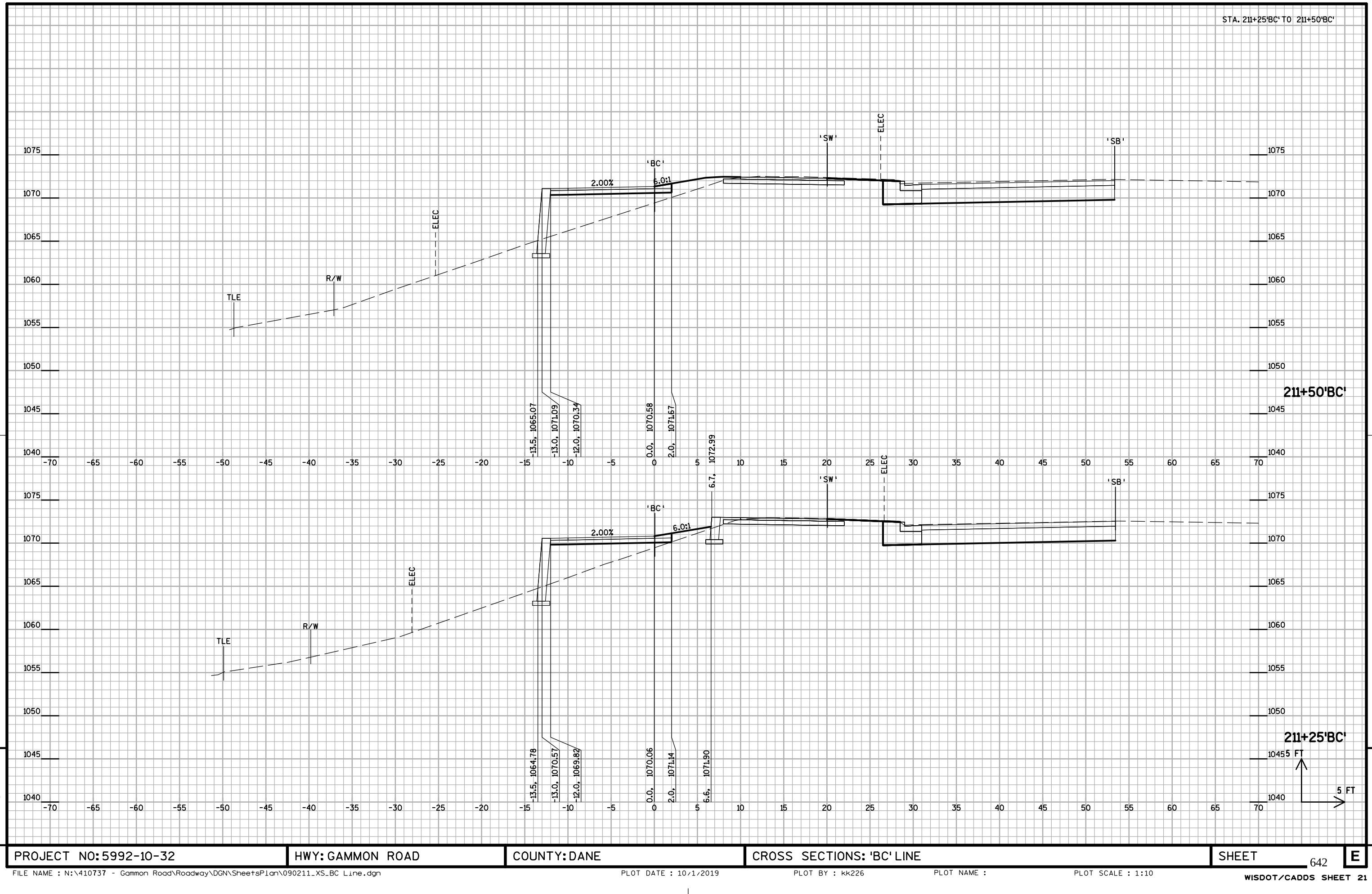


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BC' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090211_XS_BC Line.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 211+25'BC' TO 211+50'BC'

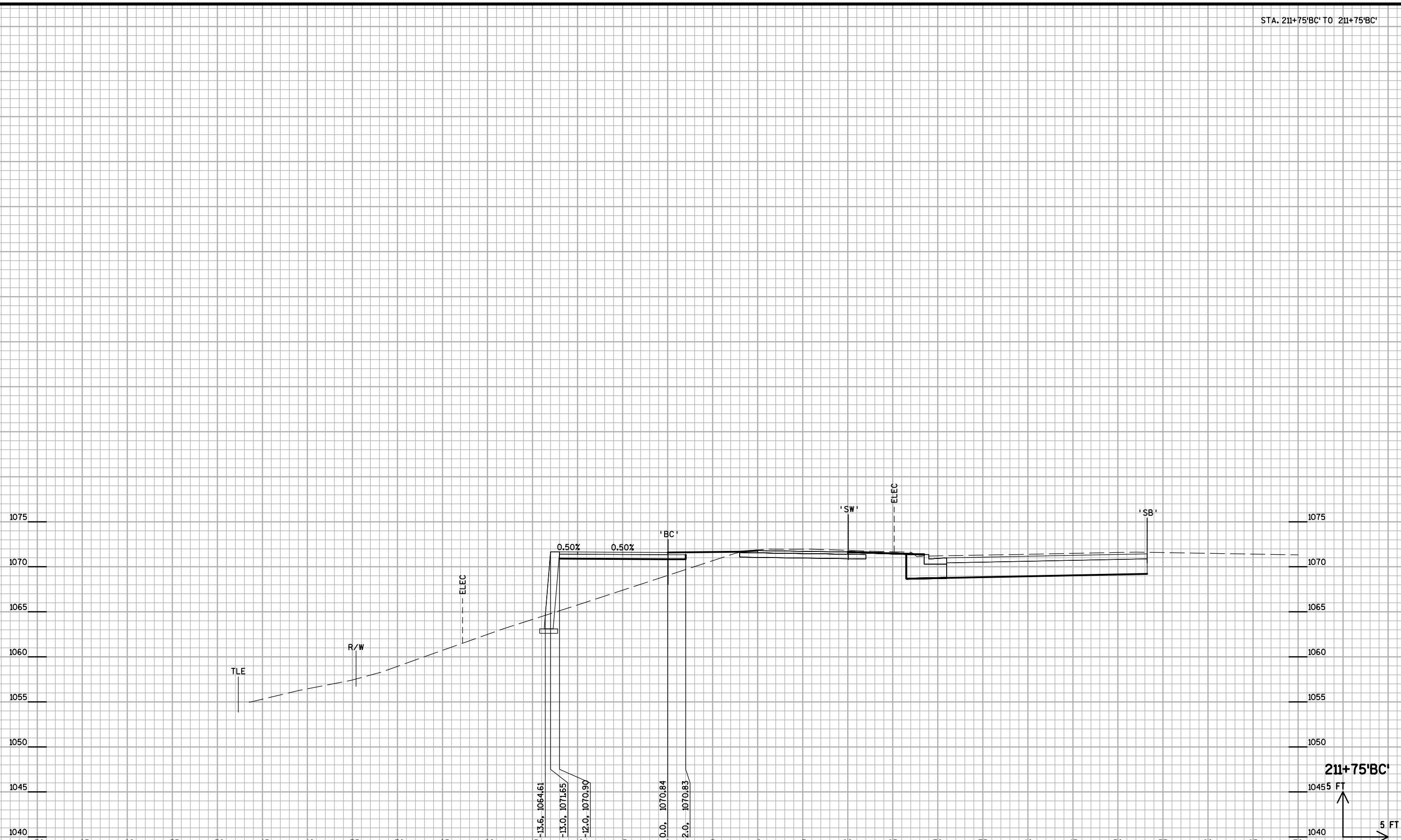


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BC' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090211_XS_BC Line.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 211+75'BC' TO 211+75'BC'



9

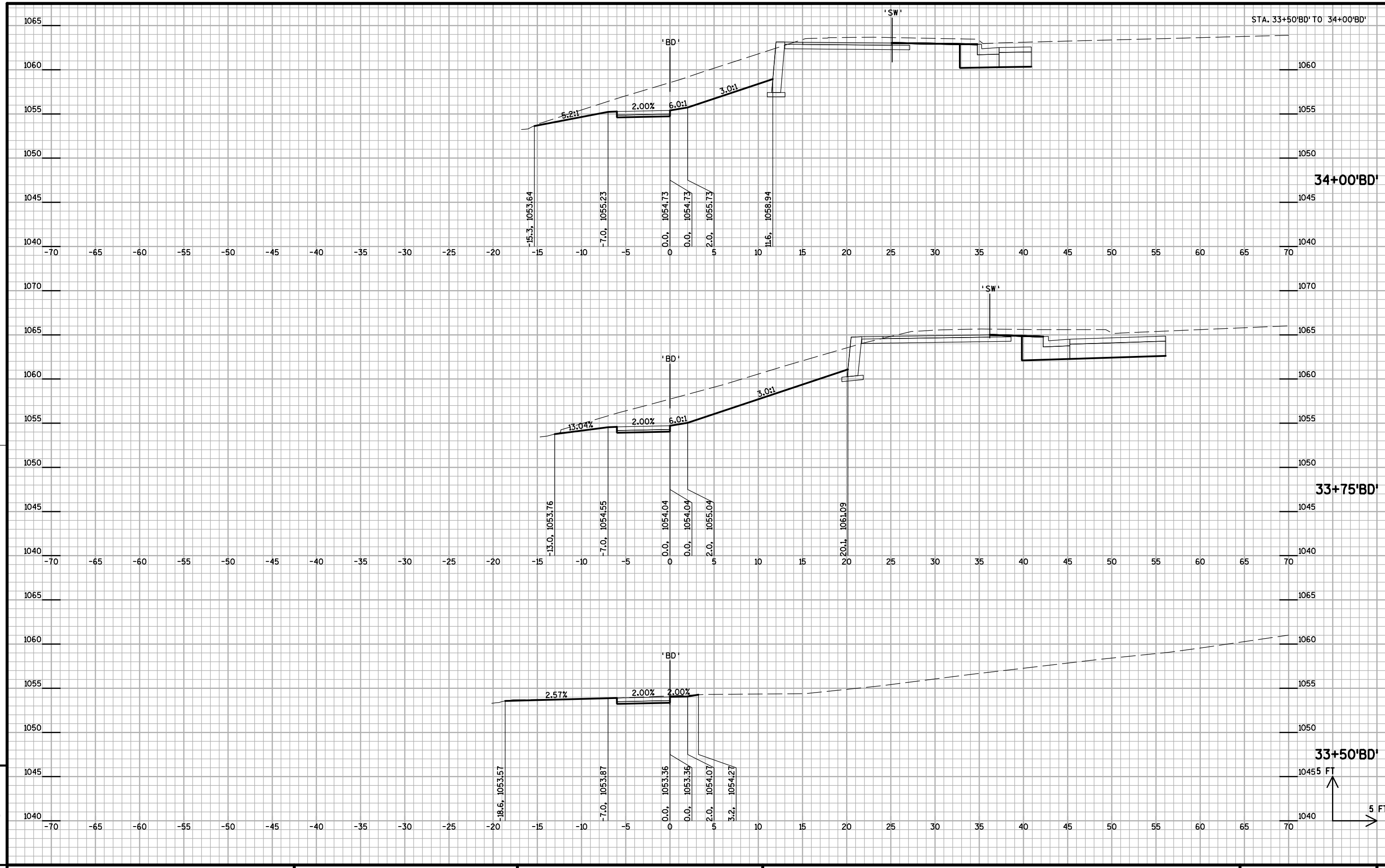
9

PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BC' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090211_XS_BC Line.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 33+50'BD' TO 34+00'BD'



PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BD' LINE	SHEET 644	E

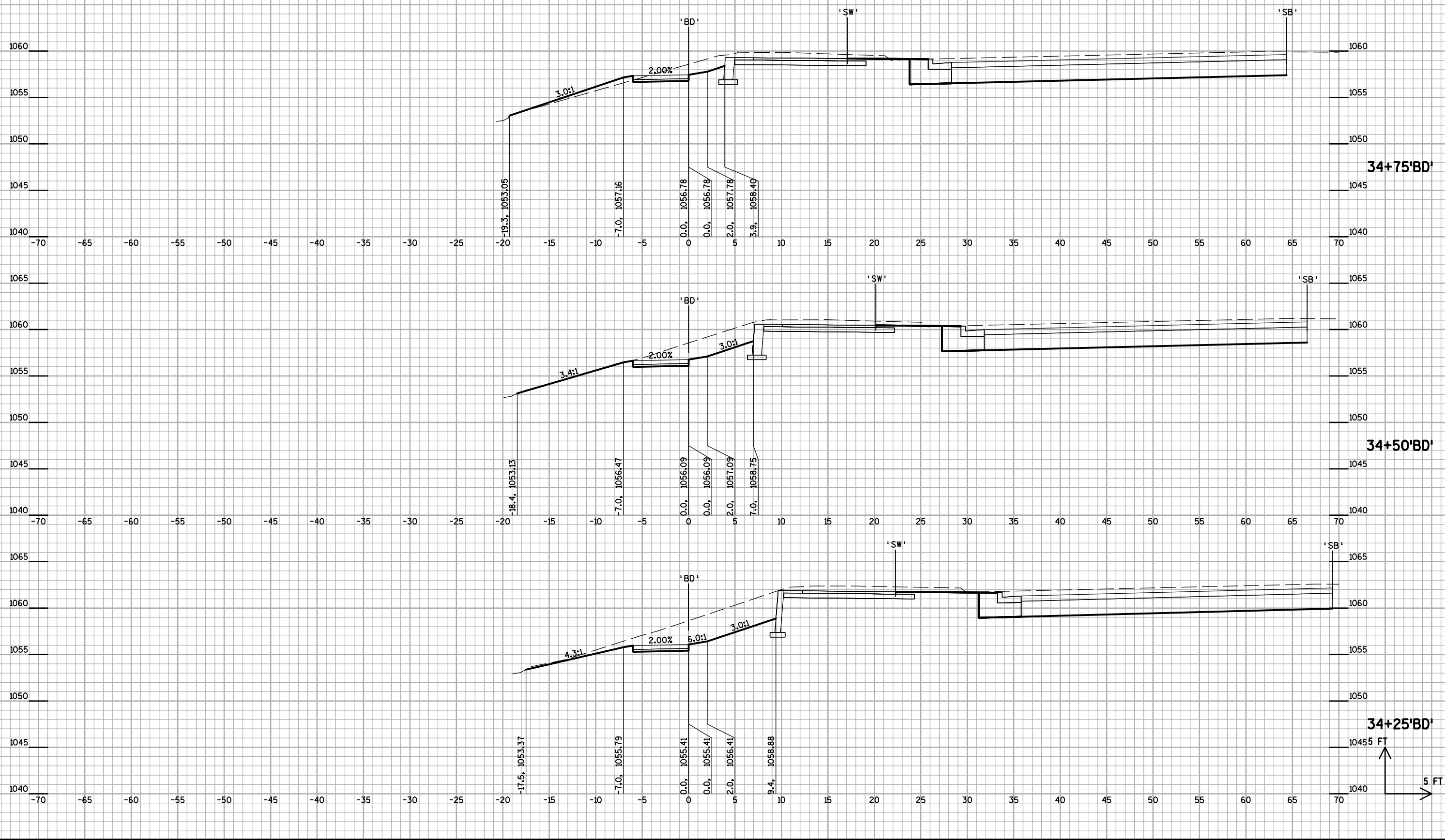
FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090212_XS_BD Line.dgn | PLOT DATE : 10/1/2019 | PLOT BY : kk226 | PLOT NAME : | PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

9

9

STA. 34+25'BD' TO 34+75'BD'

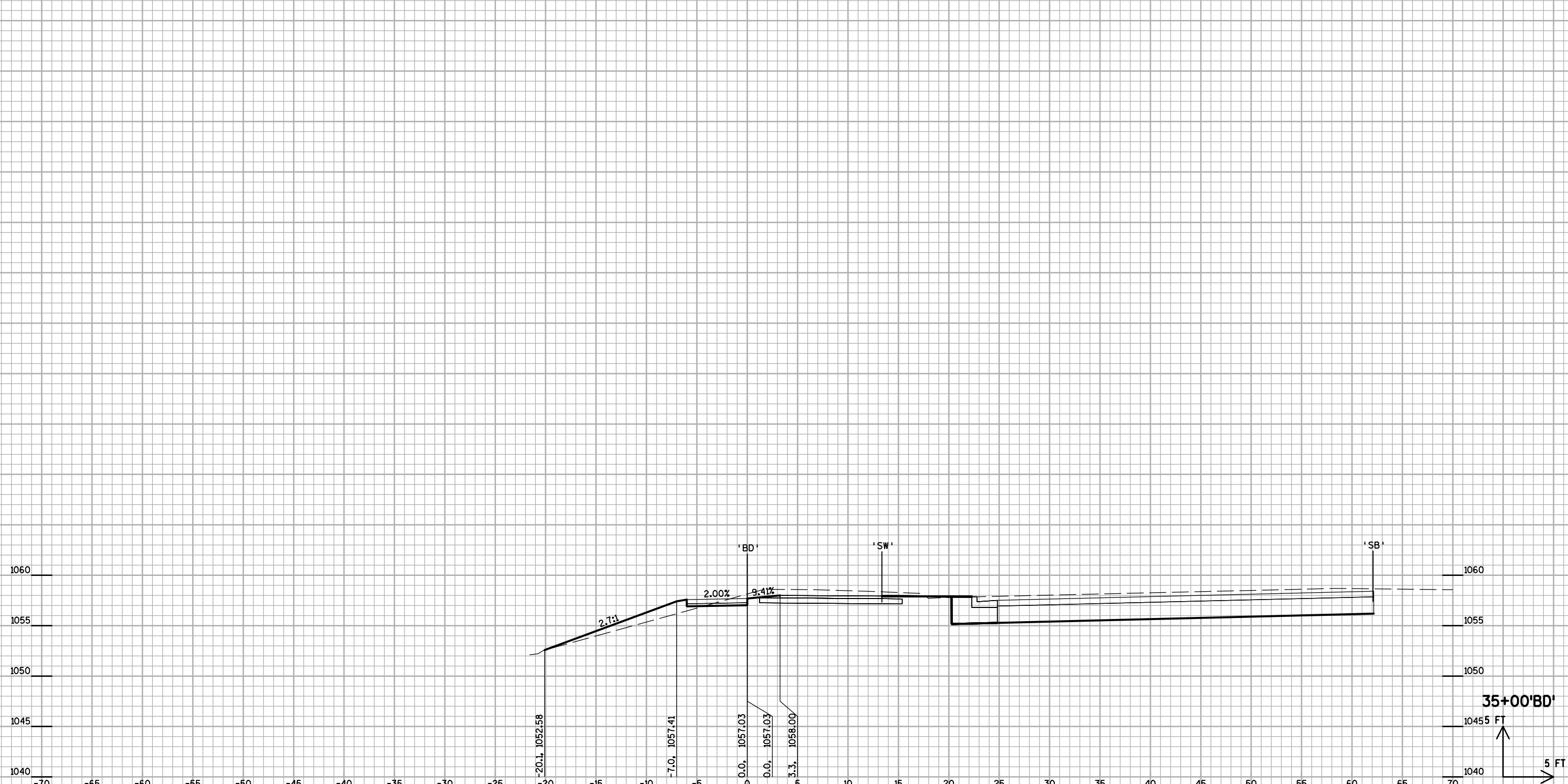


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BD' LINE	SHEET 645	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090212_XS_BD Line.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 35+00'BD' TO 35+00'BD'

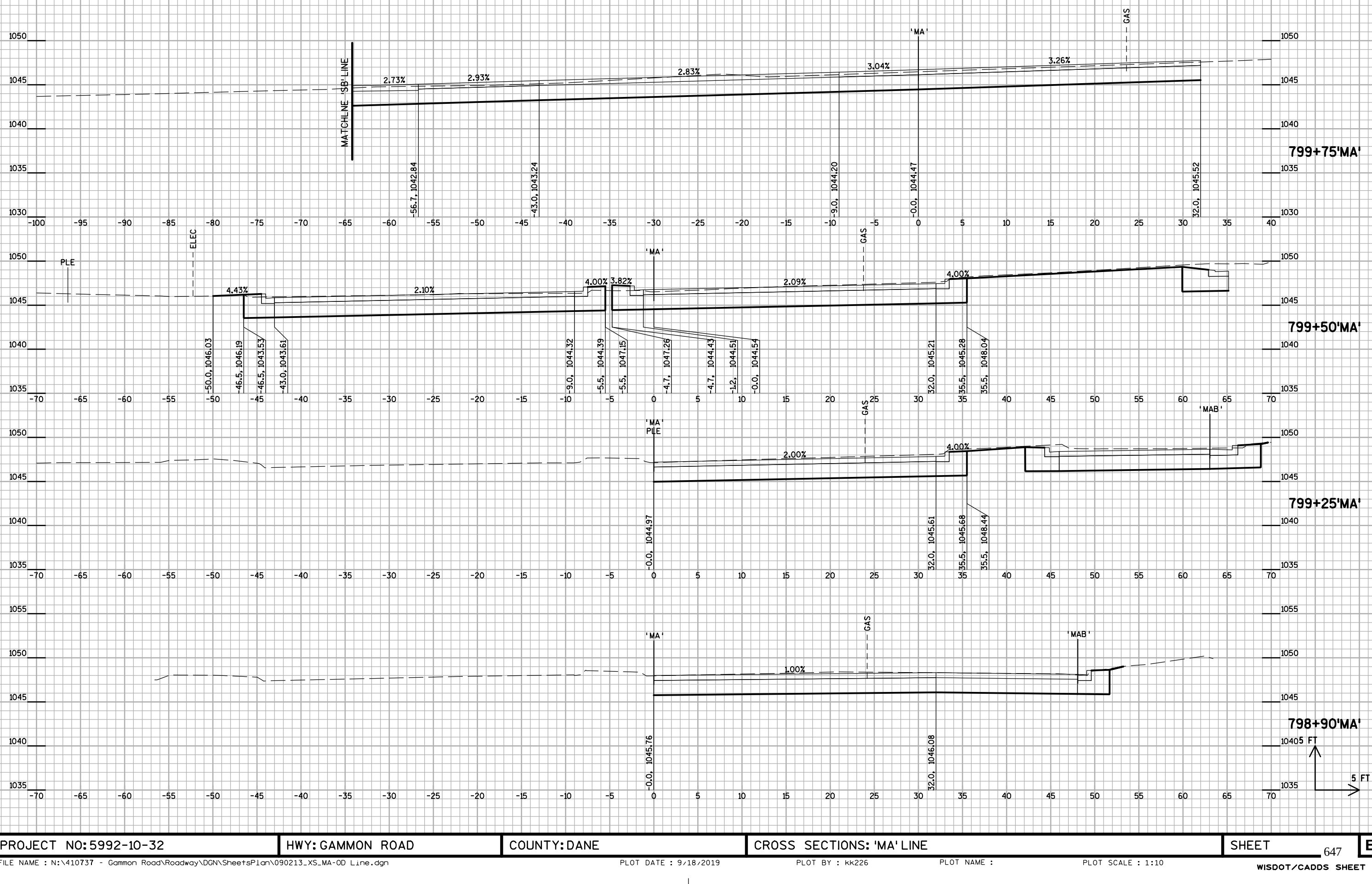


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'BD' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090212_XS_BD Line.dgn PLOT DATE : 10/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

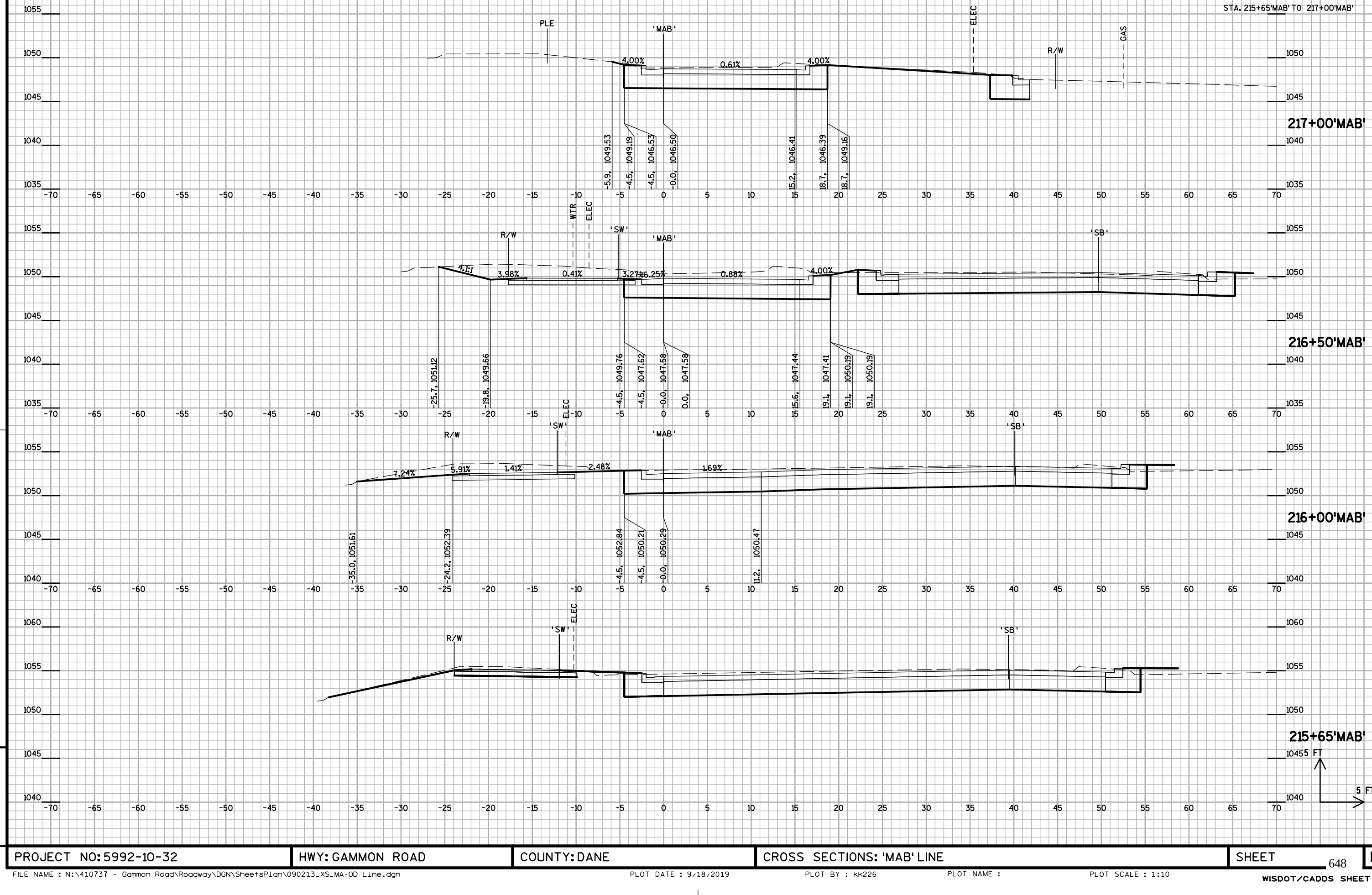
STA. 798+90'MA' TO 799+75'MA'



PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'MA' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090213_XS_MA-OD Line.dgn PLOT DATE : 9/18/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

STA. 215+65'MAB' TO 217+00'MAB'



9

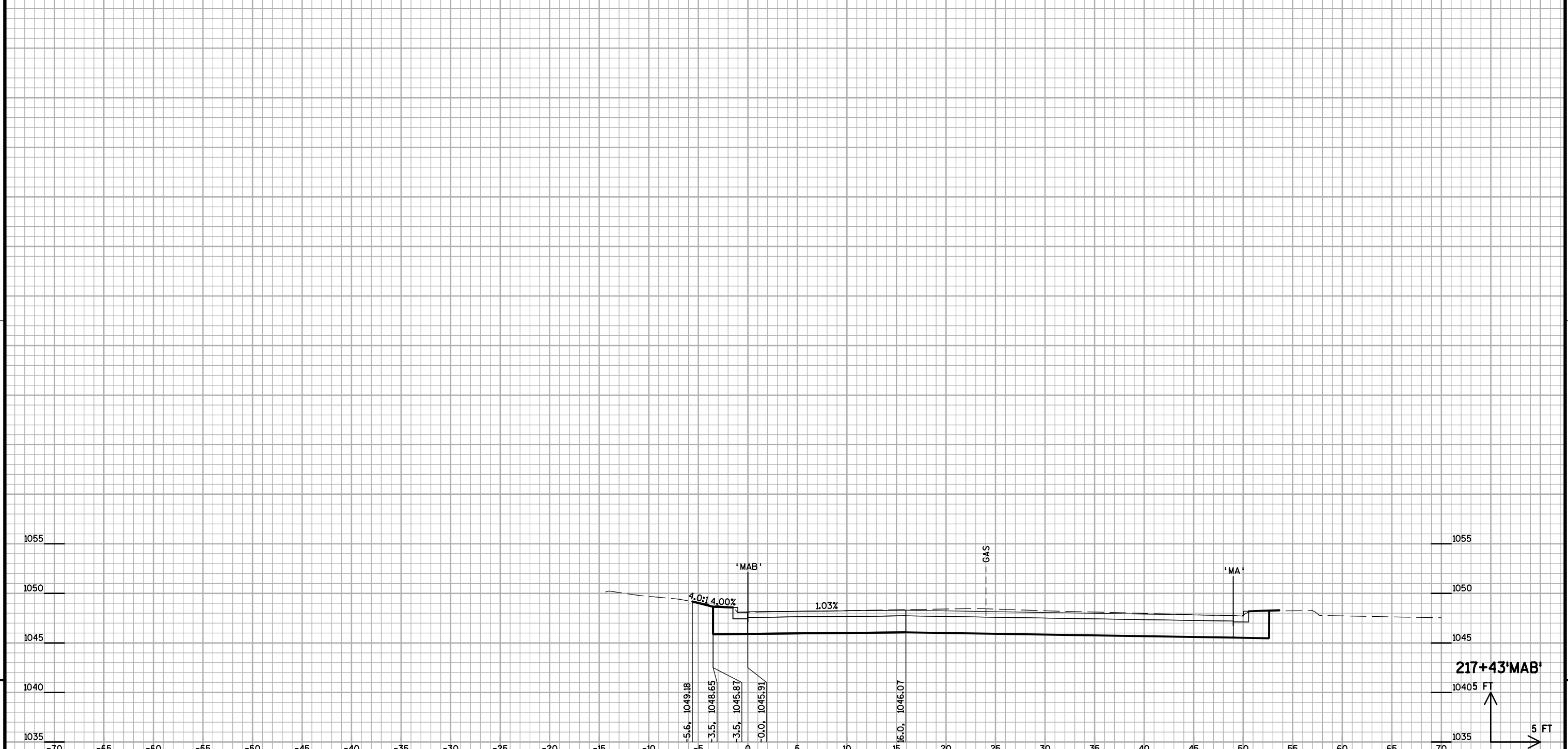
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PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'MAB' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090213_XS_MA-OD Line.dgn PLOT DATE : 9/18/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 217+43'MAB' TO 217+43'MAB'

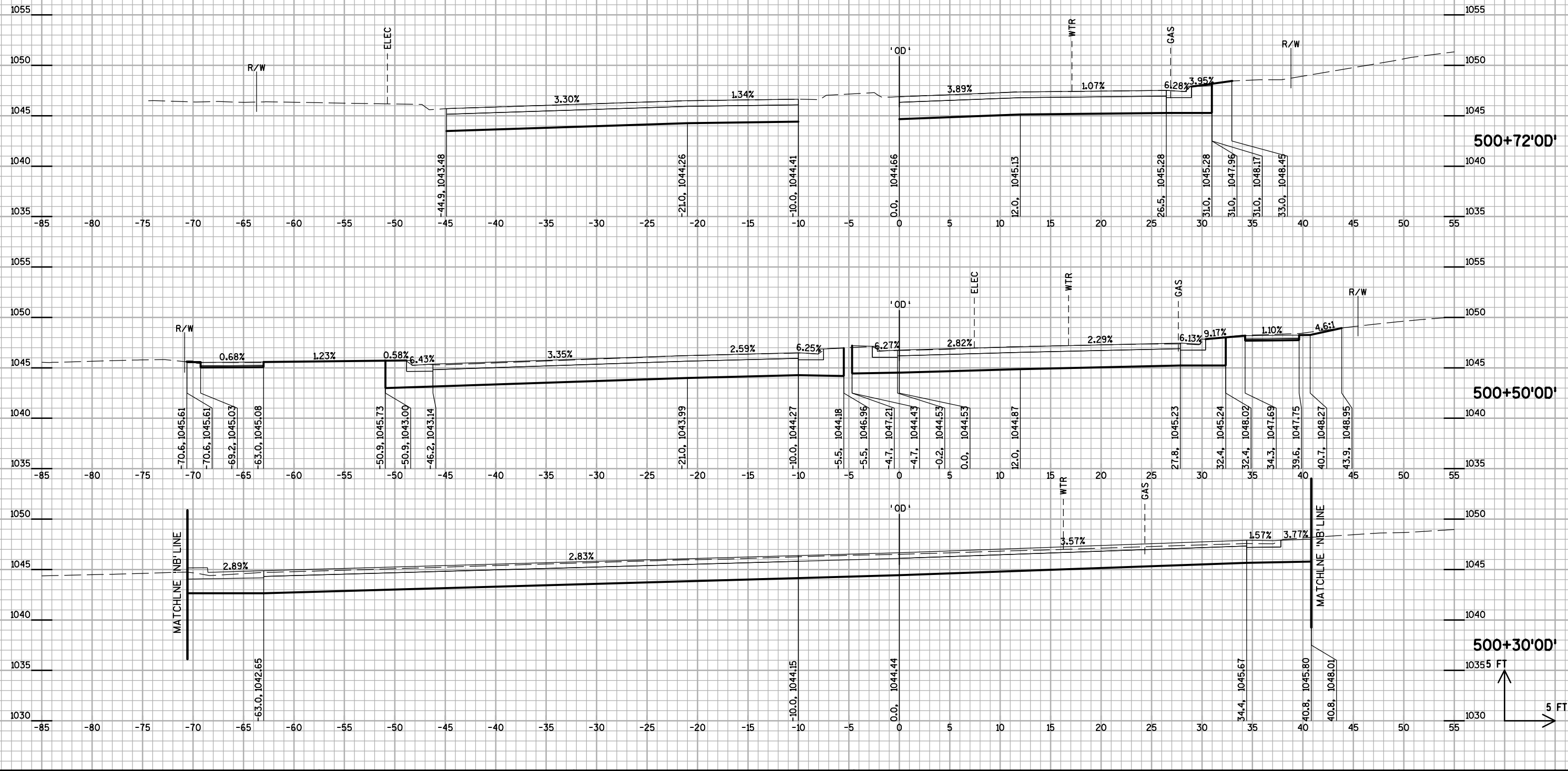


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'MAB' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090213_XS_MA-OD Line.dgn PLOT DATE : 9/18/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 500+30'0D' TO 500+72'0D'

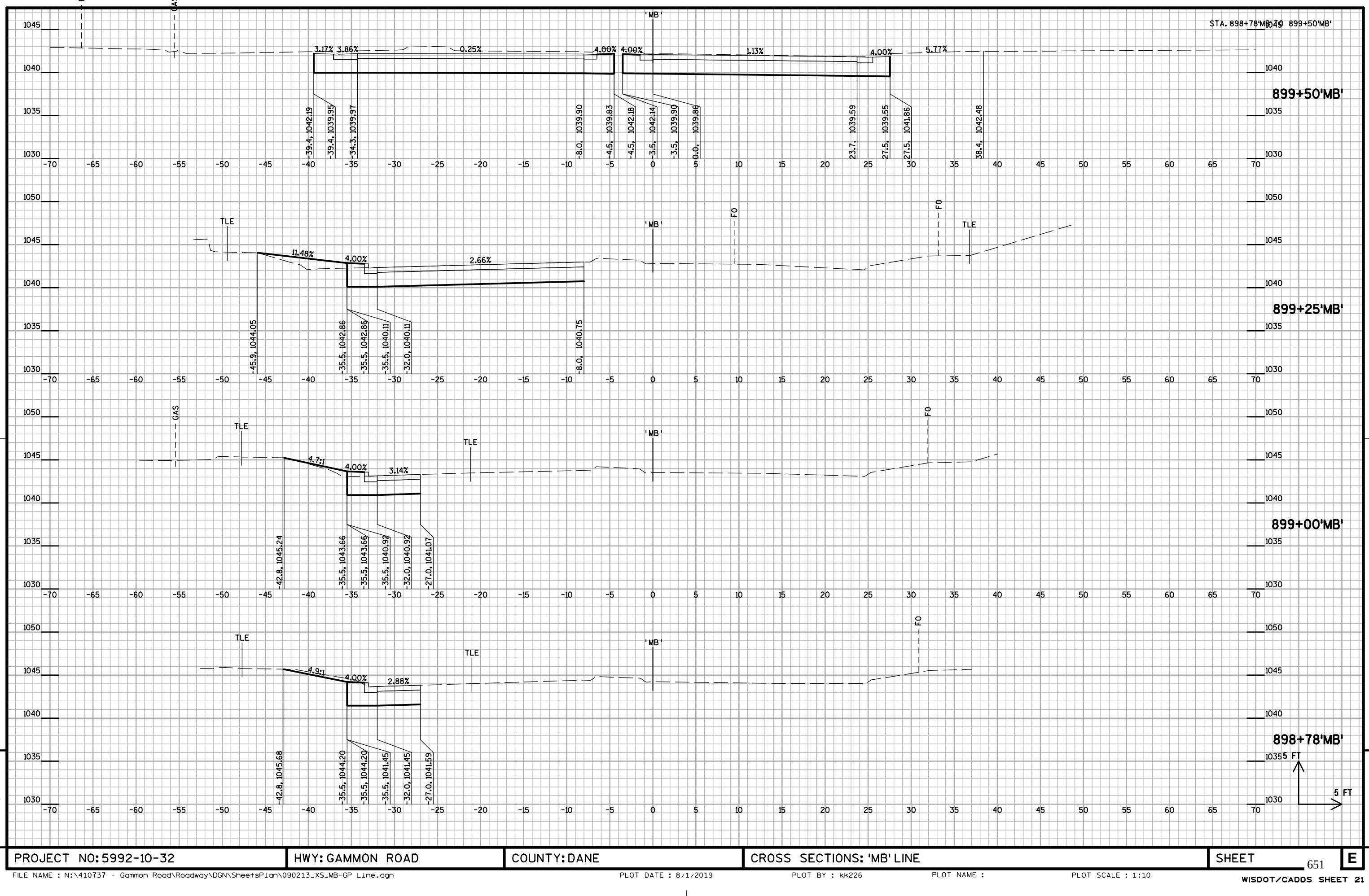


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'OD' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090213_XS_MA-OD Line.dgn | PLOT DATE : 9/18/2019 | PLOT BY : kk226 | PLOT NAME : | PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 898+78'MB' TO 899+50'MB'

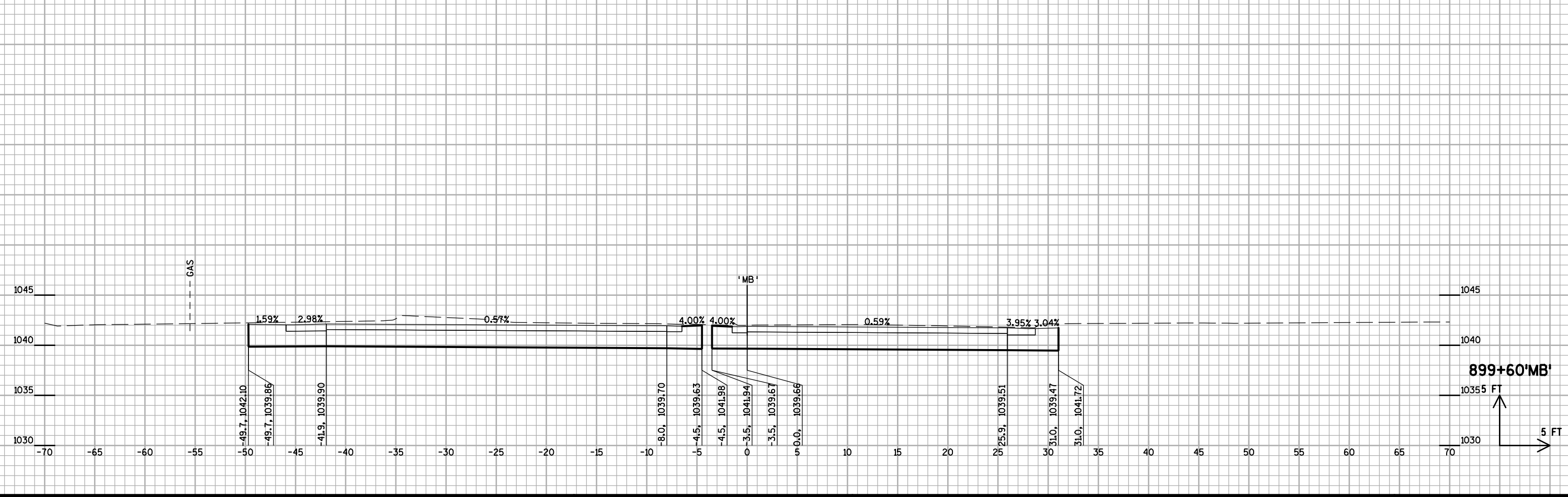


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'MB' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090213_XS_MB-GP Line.dgn PLOT DATE : 8/1/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

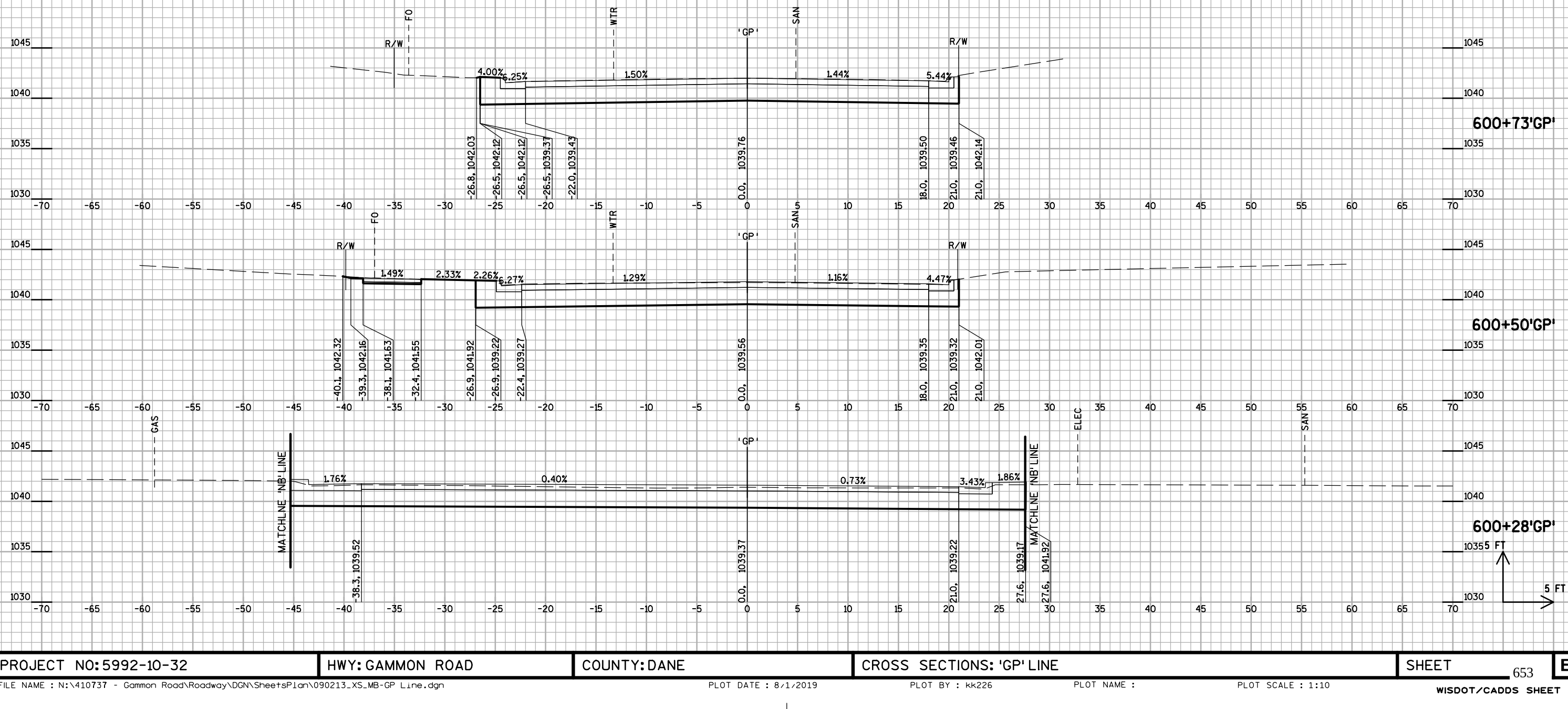
STA. 899+60'MB' TO 899+60'MB'



PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'MB' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090213_XS_MB-GP Line.dgn
PLOT DATE : 8/1/2019
PLOT BY : kk226
PLOT NAME :
PLOT SCALE : 1:10
WISDOT/CADDS SHEET 21

STA. 600+28'GP' TO 600+73'GP'

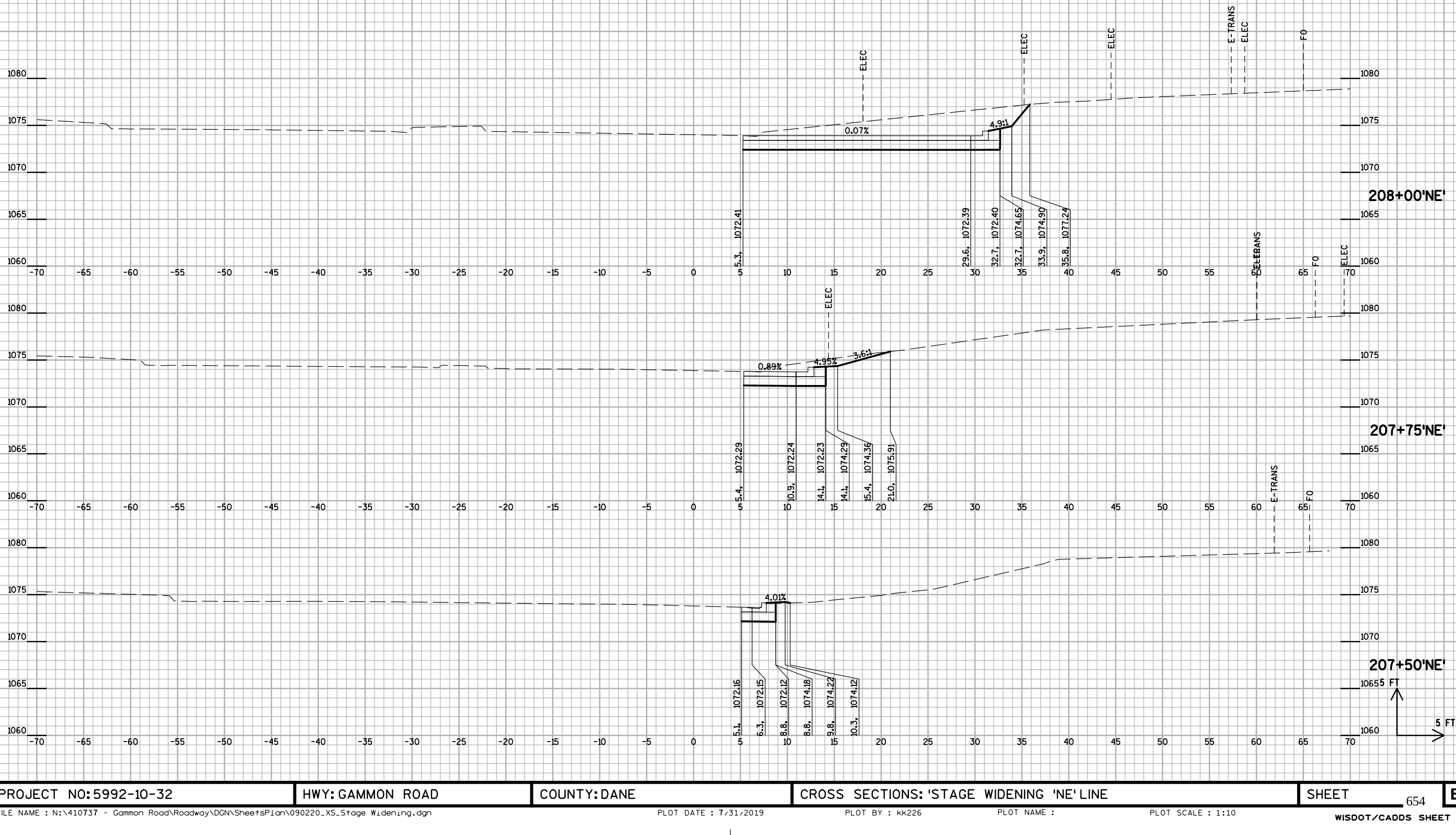


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'GP' LINE	SHEET 653	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090213_XS_MB-GP Line.dgn | PLOT DATE : 8/1/2019 | PLOT BY : kk226 | PLOT NAME : | PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 207+50'NE' TO 208+00'NE'

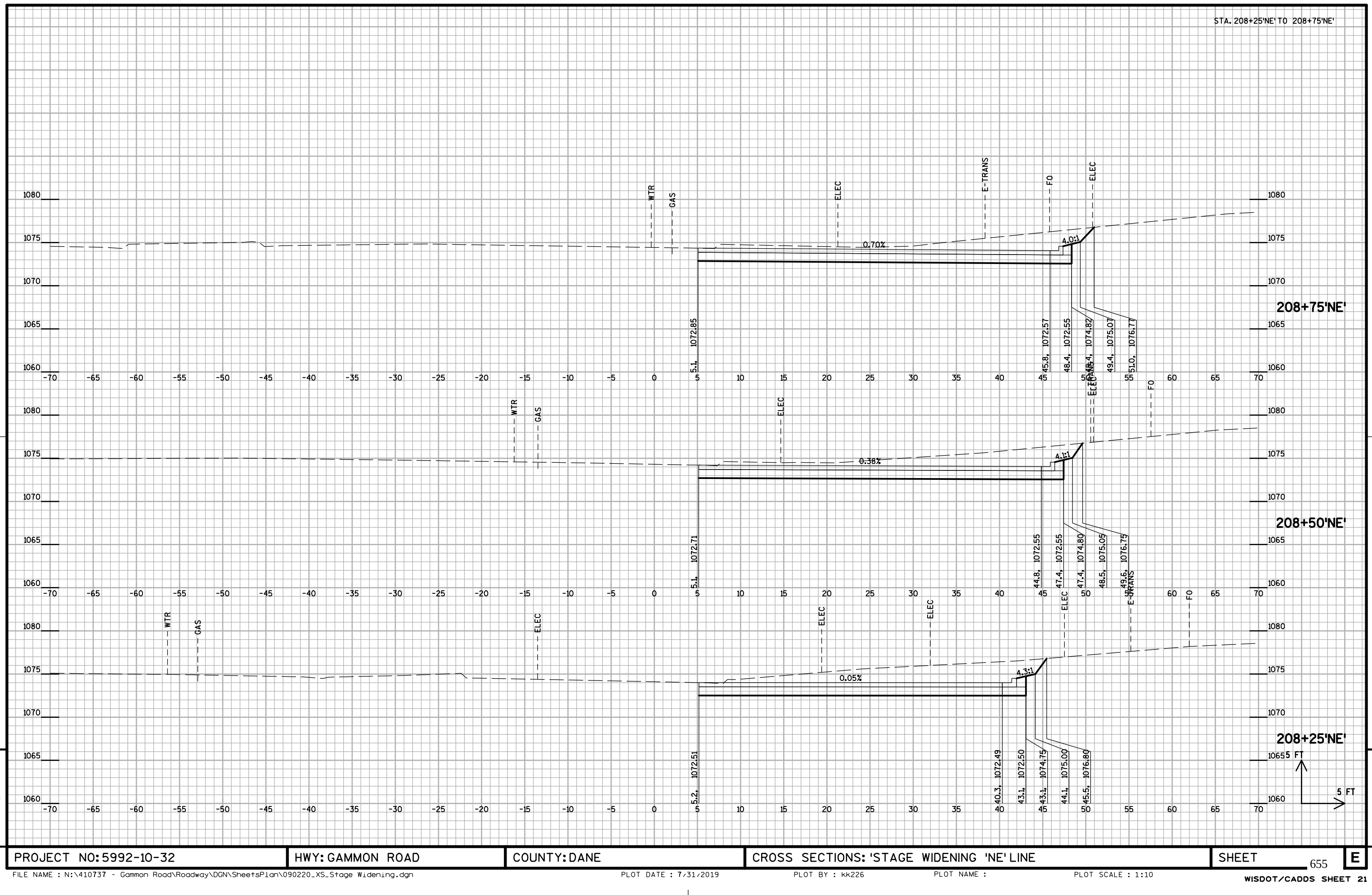


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'STAGE WIDENING 'NE' LINE	SHEET 654	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090220_XS_Stage Widening.dgn PLOT DATE : 7/31/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

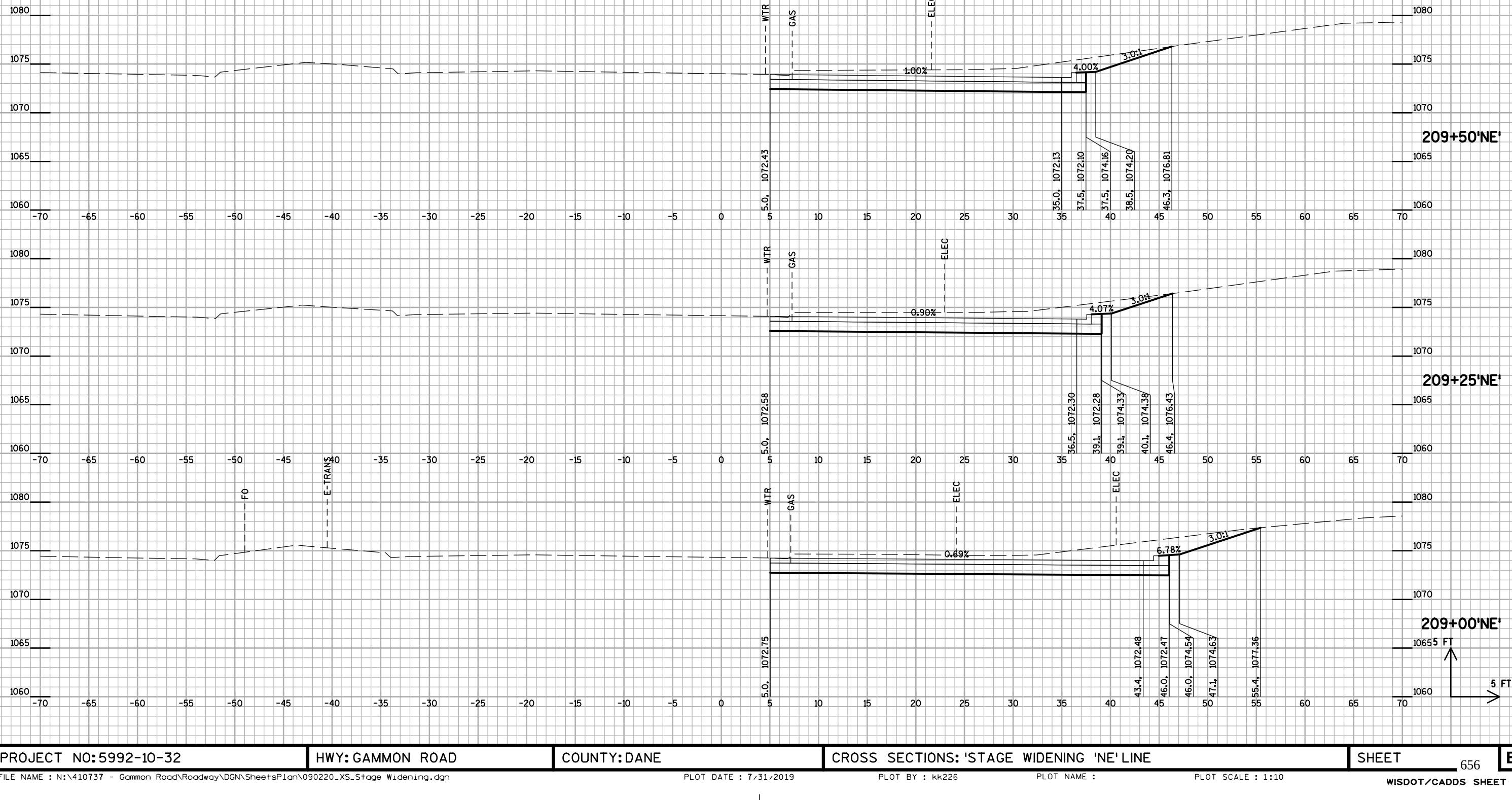
STA. 208+25'NE' TO 208+75'NE'



PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'STAGE WIDENING 'NE' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090220_XS_Stage Widening.dgn PLOT DATE : 7/31/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

STA. 209+00'NE' TO 209+50'NE'

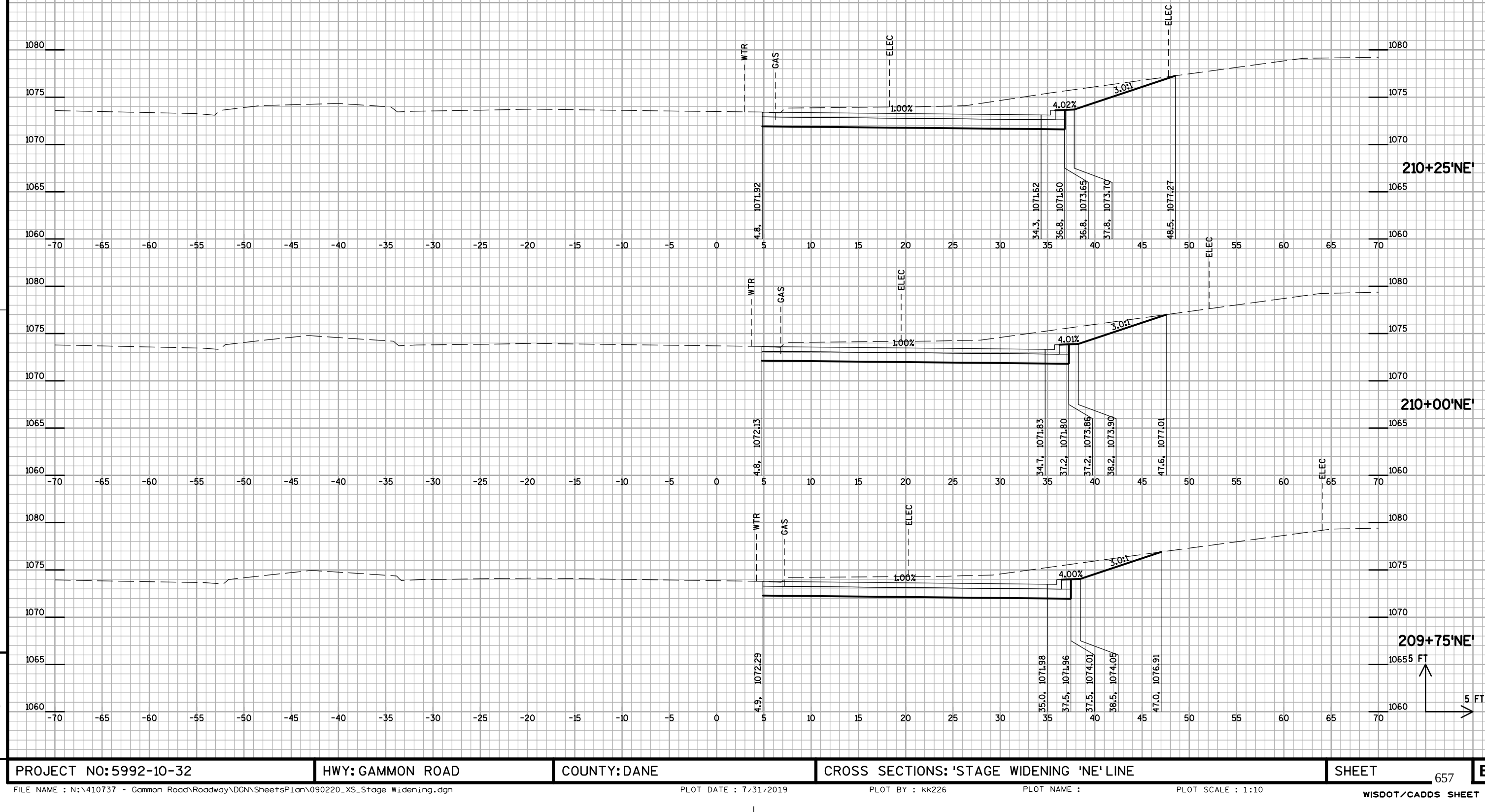


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'STAGE WIDENING 'NE' LINE	SHEET 656	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090220_XS_Stage Widening.dgn PLOT DATE : 7/31/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 209+75'NE' TO 210+25'NE'

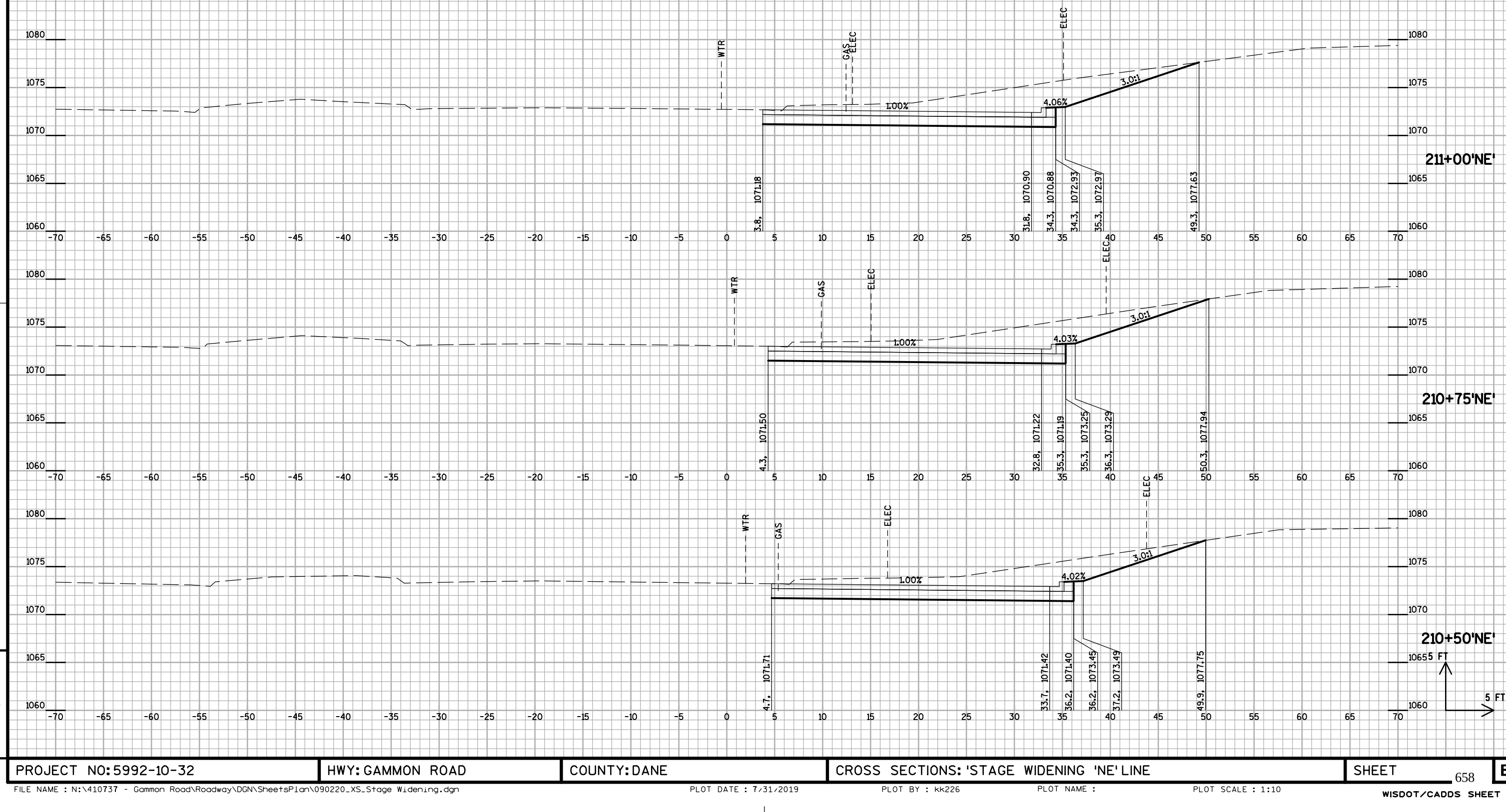


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'STAGE WIDENING 'NE' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090220_XS_Stage Widening.dgn PLOT DATE : 7/31/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 210+50'NE' TO 211+00'NE'

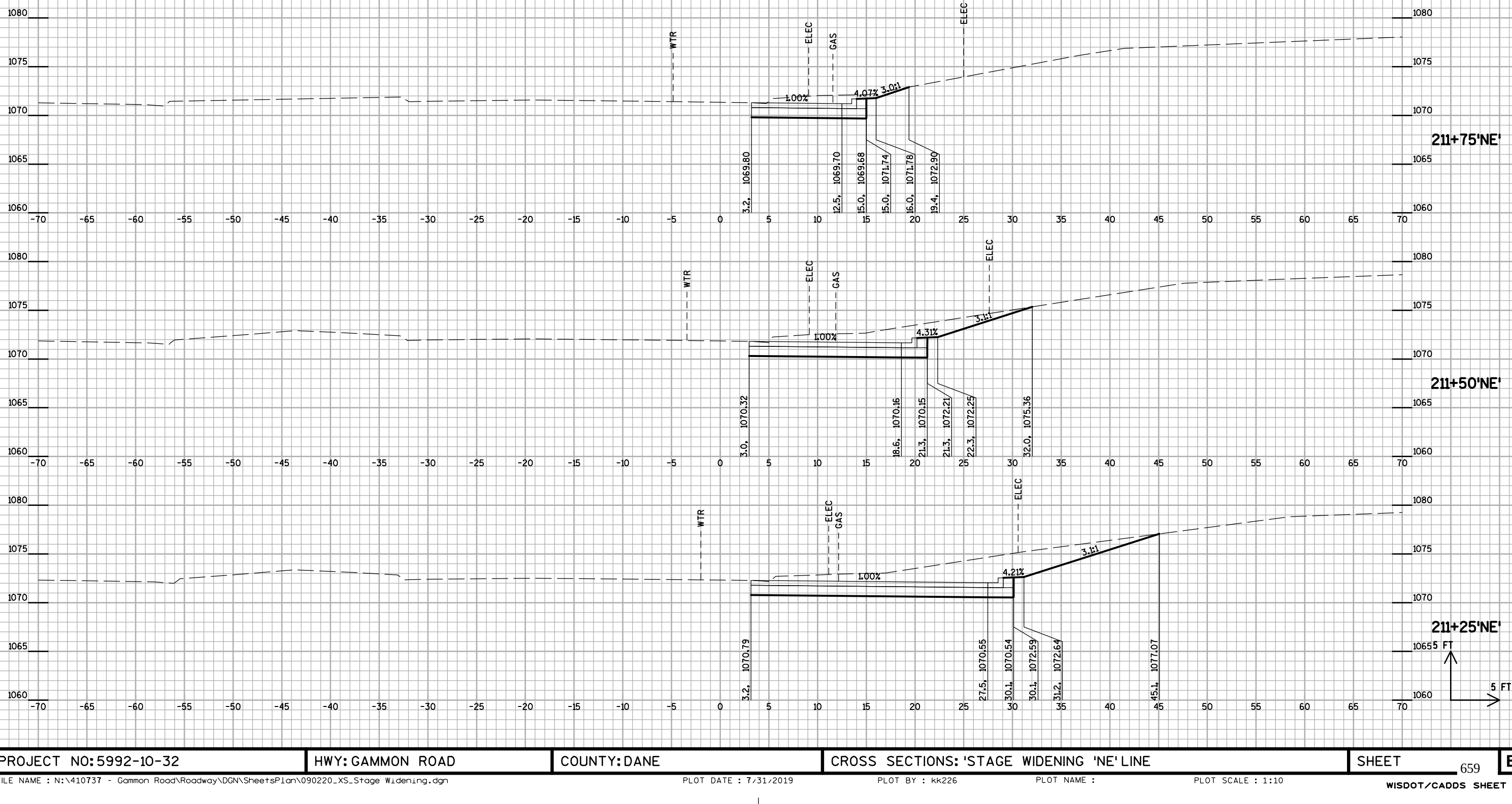


9

9

PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'STAGE WIDENING 'NE' LINE	SHEET 658	E

STA. 211+25'NE' TO 211+75'NE'



9

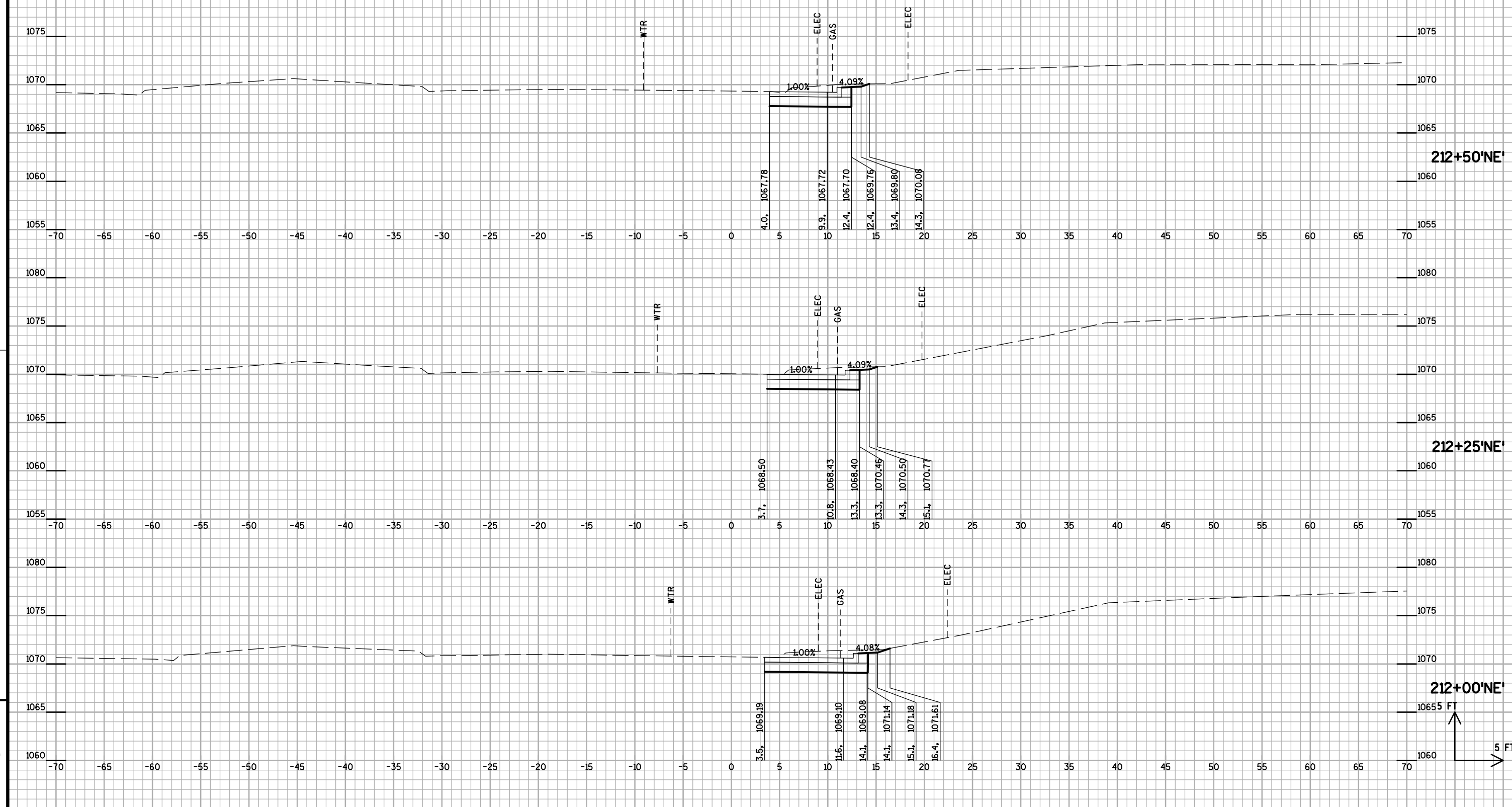
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PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'STAGE WIDENING 'NE' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090220_XS_Stage Widening.dgn PLOT DATE : 7/31/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 212+00'NE' TO 212+50'NE'

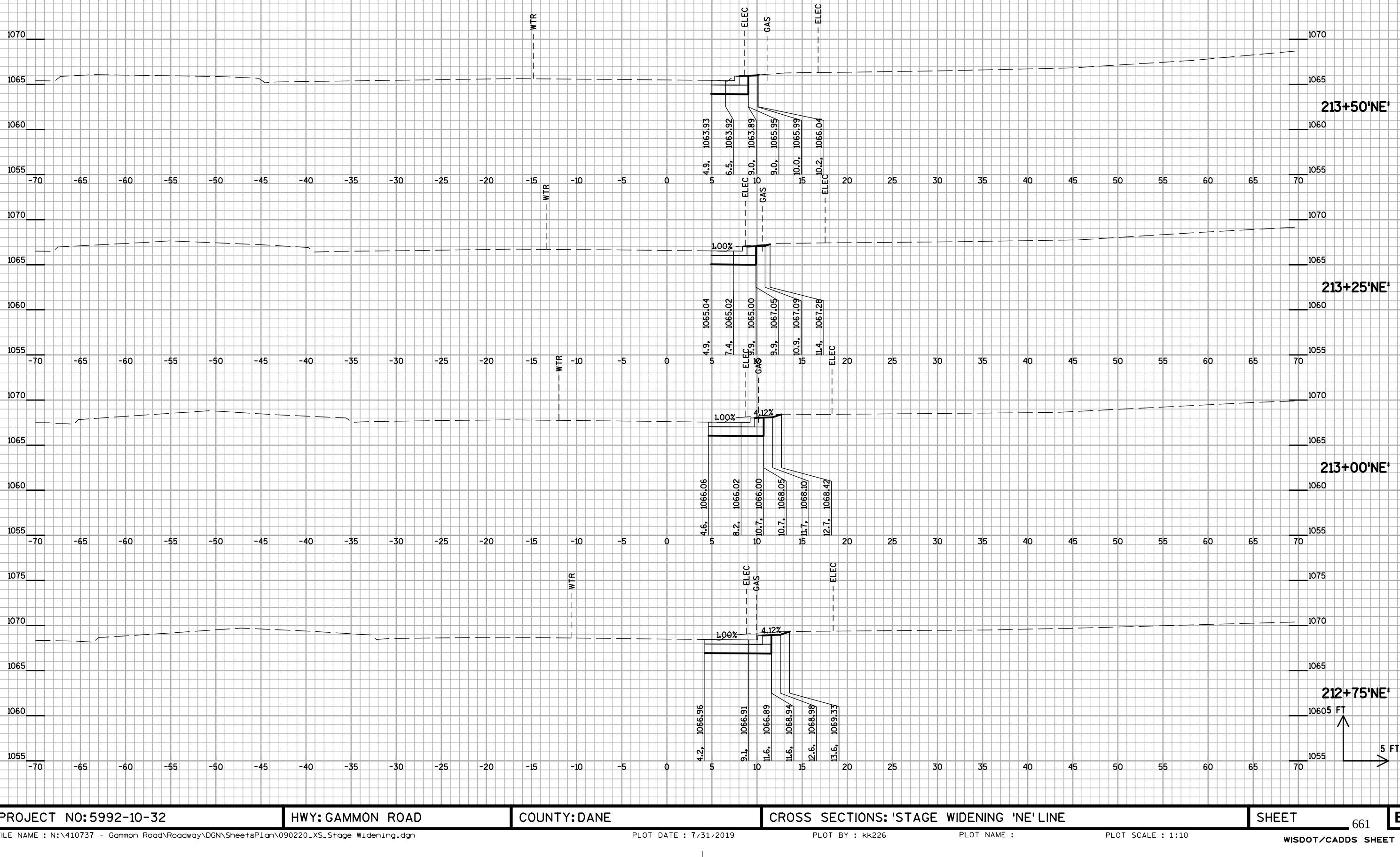


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'STAGE WIDENING 'NE' LINE	SHEET 660	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090220_XS_Stage Widening.dgn PLOT DATE : 7/31/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 212+75'NE' TO 213+50'NE'

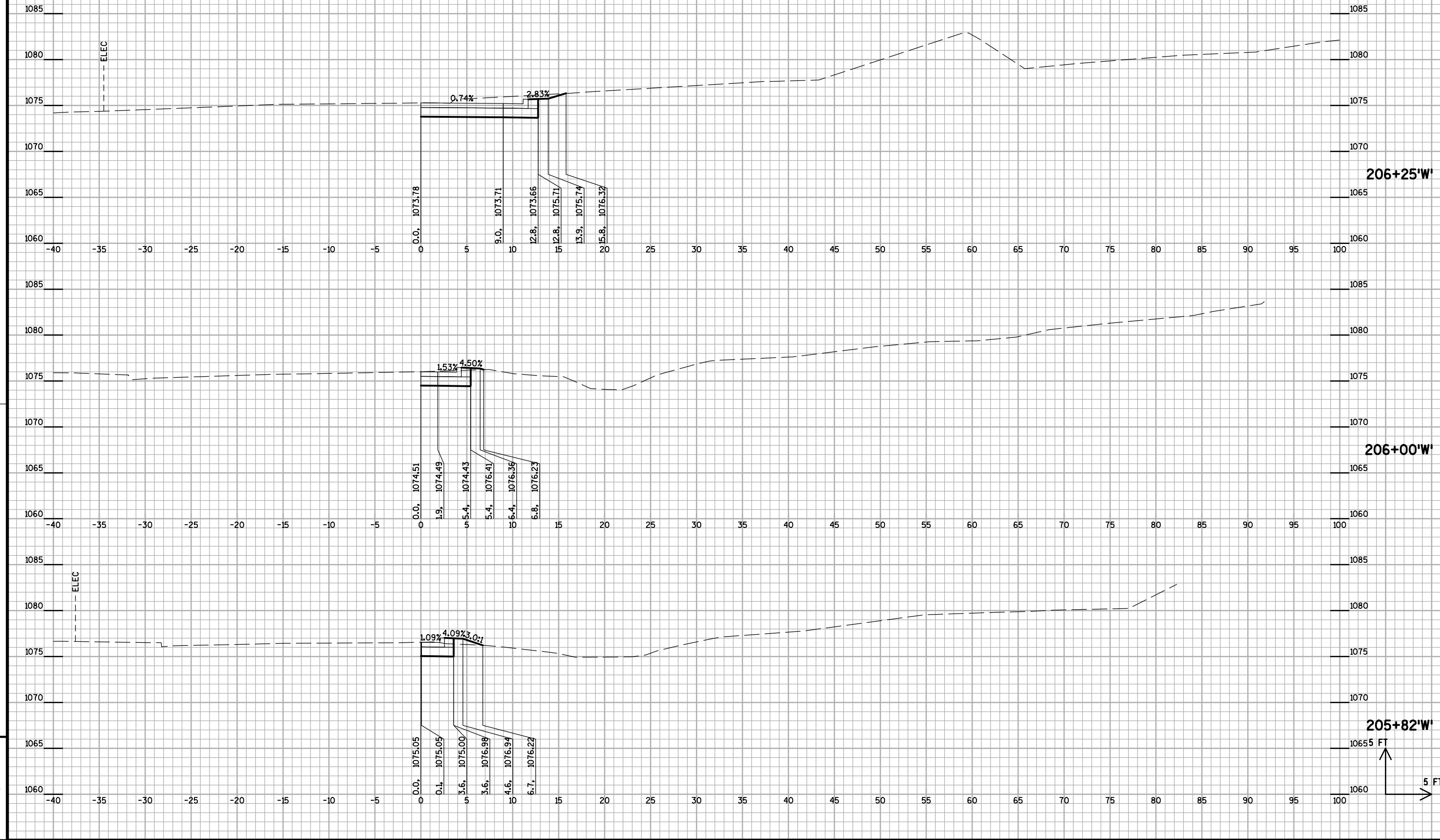


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'STAGE WIDENING 'NE' LINE	SHEET E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090220_XS_Stage Widening.dgn PLOT DATE : 7/31/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 205+82'W' TO 206+25'W'

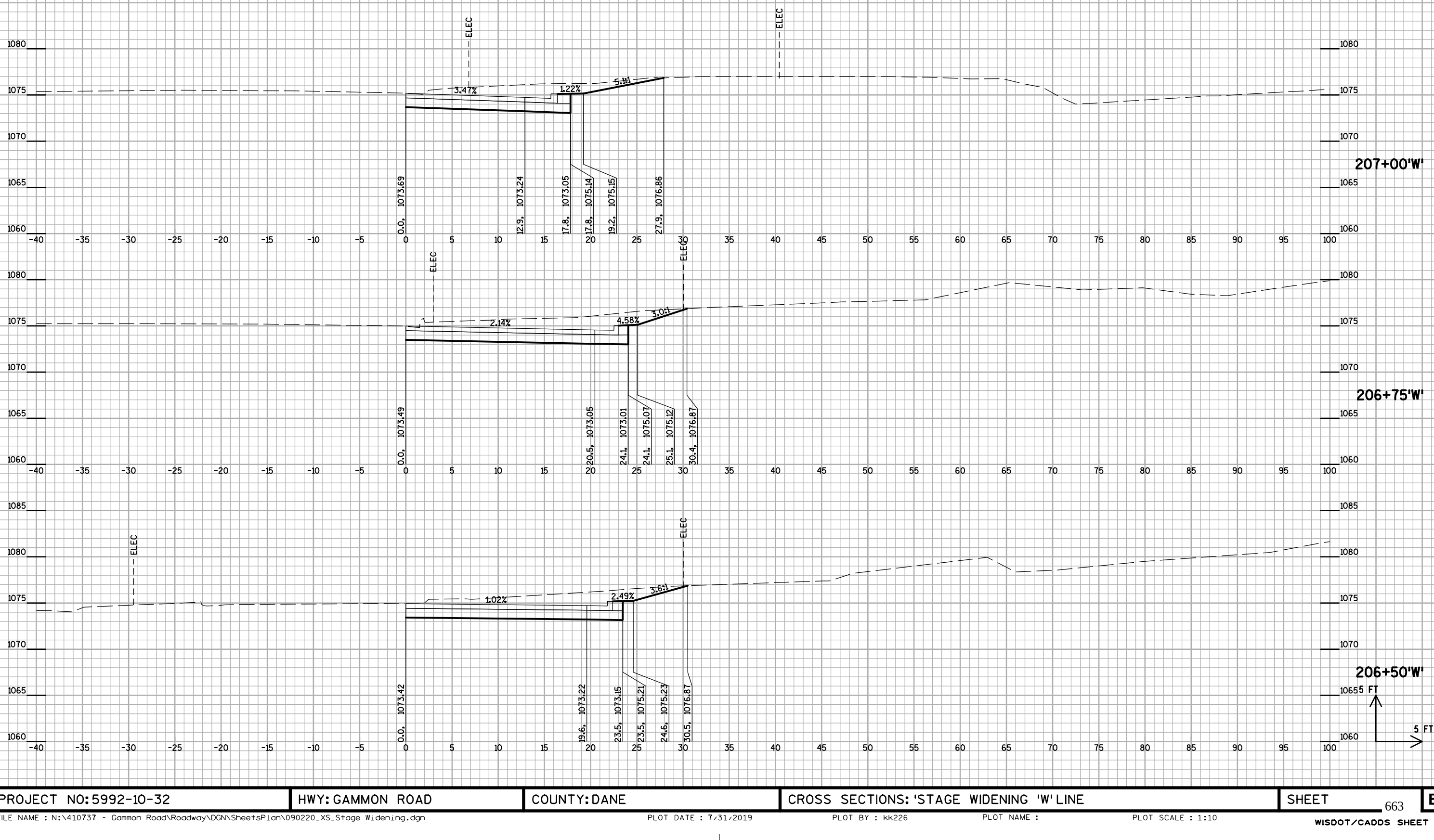


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'STAGE WIDENING 'W' LINE	SHEET 662	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090220_XS_Stage Widening.dgn PLOT DATE : 7/31/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

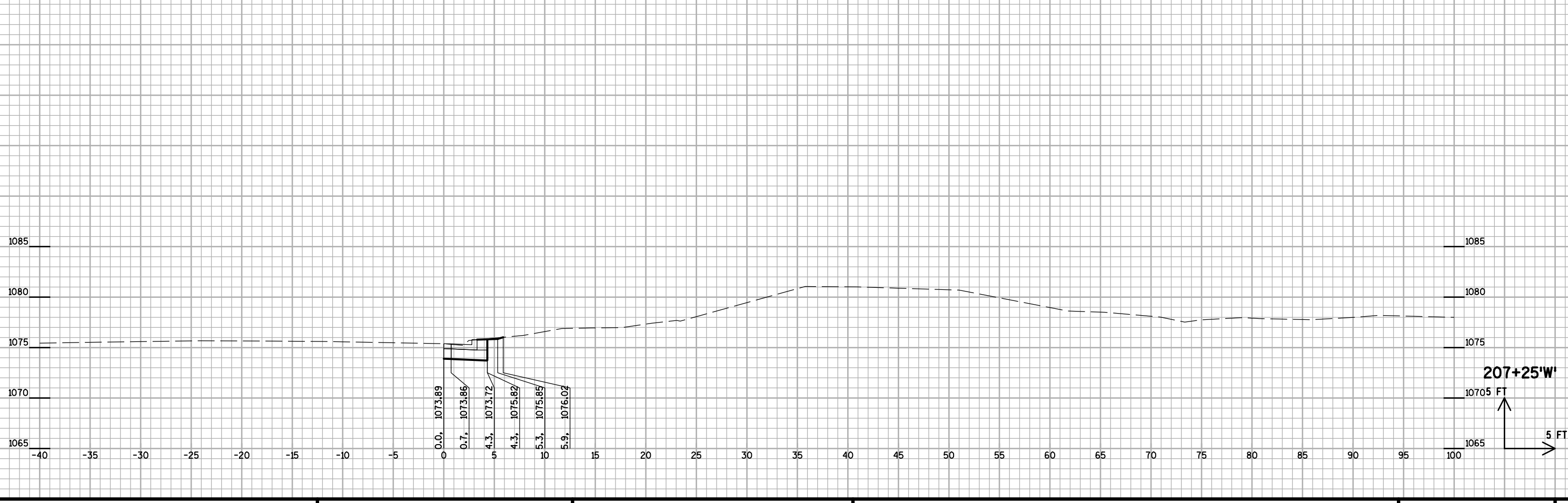
STA. 206+50'W' TO 207+00'W'



PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'STAGE WIDENING 'W' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090220_XS_Stage Widening.dgn PLOT DATE : 7/31/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

STA. 207+25'W' TO 207+25'W'

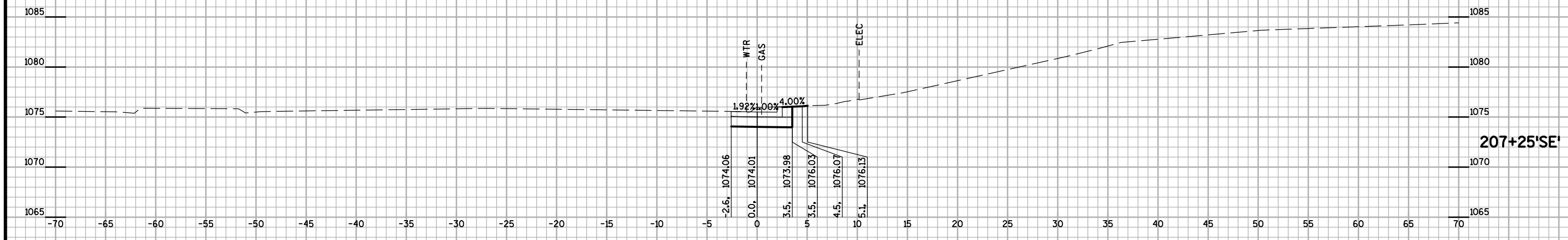


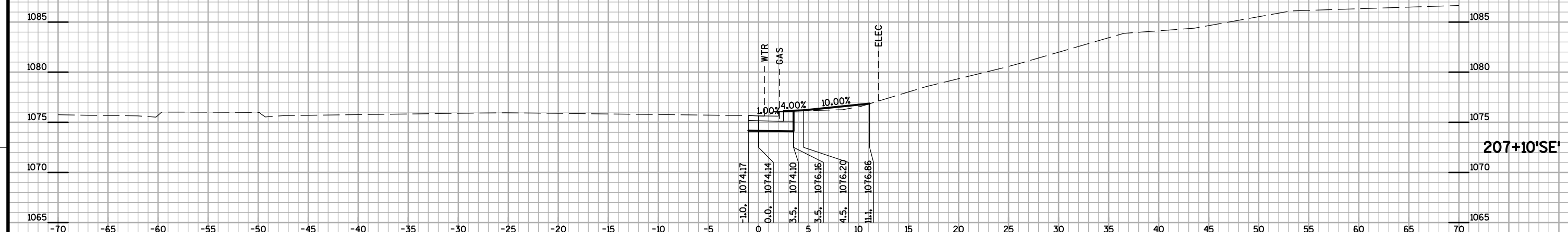
PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'STAGE WIDENING 'W' LINE	SHEET	E

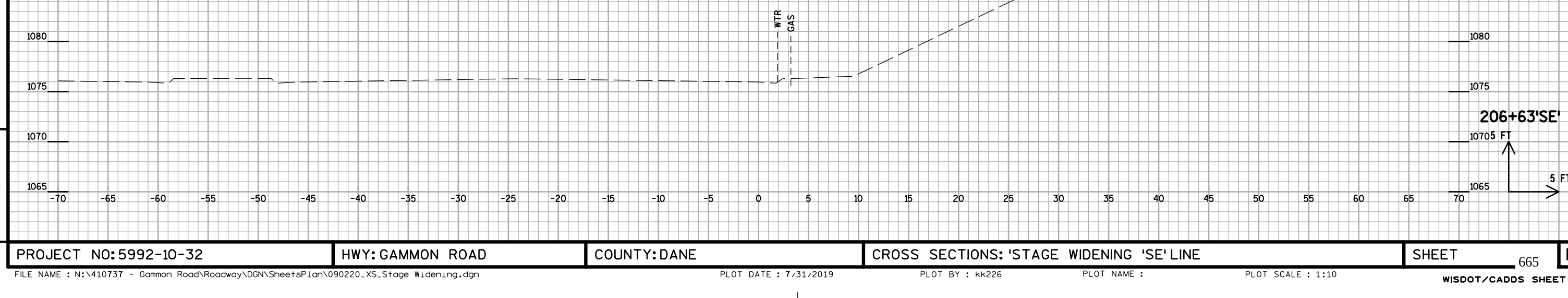
FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090220_XS_Stage Widening.dgn PLOT DATE : 7/31/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 206+63'SE' TO 207+25'SE'







9

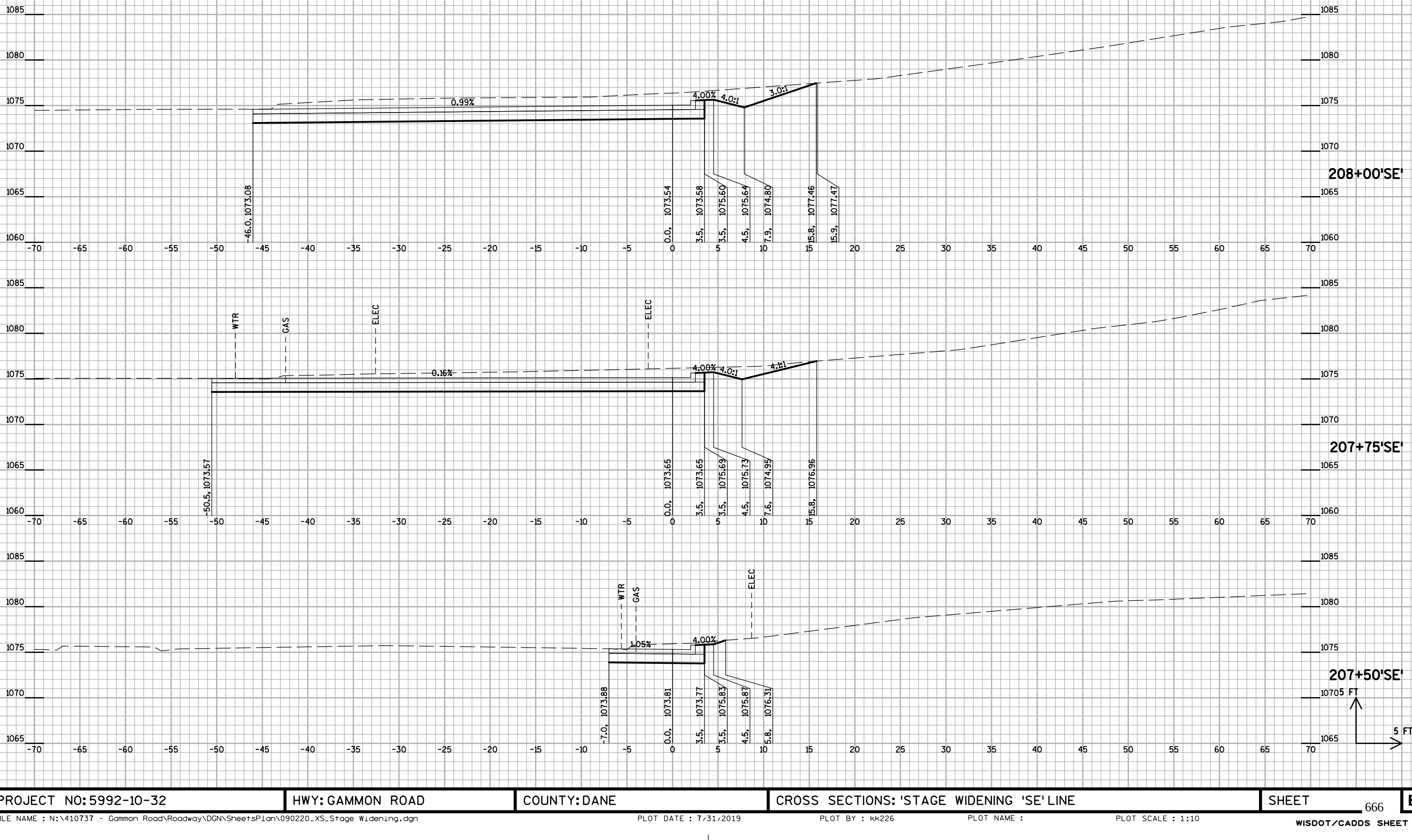
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PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'STAGE WIDENING 'SE' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090220_XS_Stage Widening.dgn PLOT DATE : 7/31/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 207+50'SE' TO 208+00'SE'

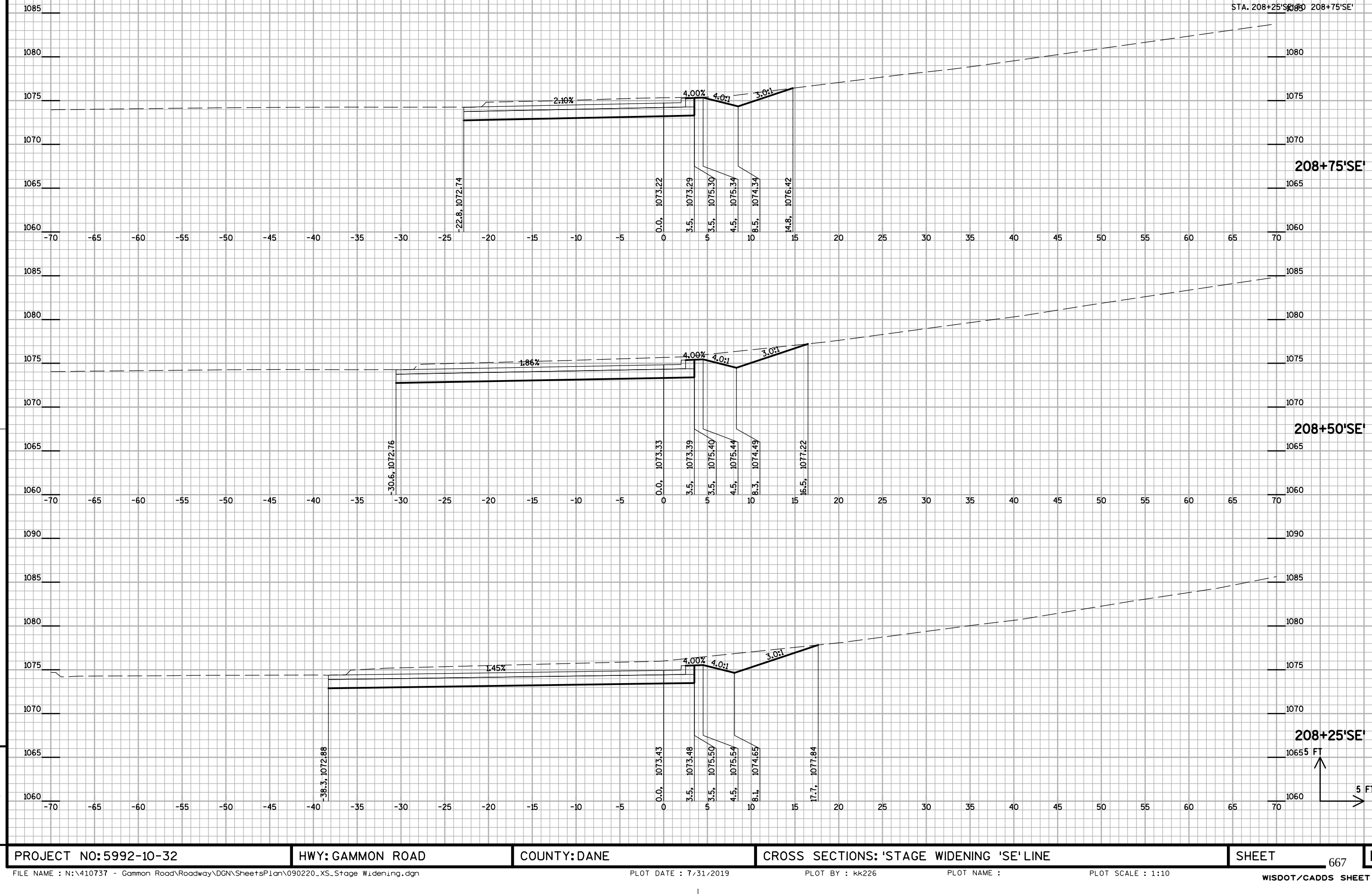


PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'STAGE WIDENING 'SE' LINE	SHEET 666	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090220_XS_Stage Widening.dgn PLOT DATE : 7/31/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 208+25'SE' TO 208+75'SE'



9

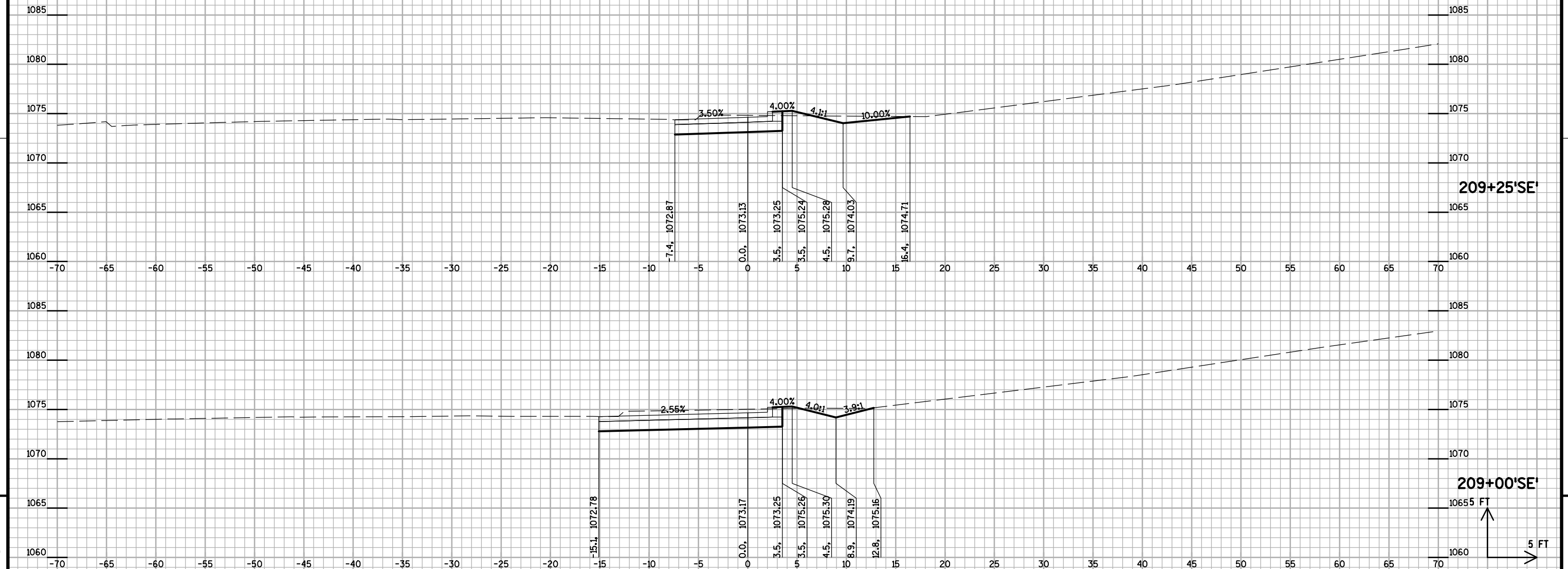
9

PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'STAGE WIDENING 'SE' LINE	SHEET E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090220_XS_Stage Widening.dgn PLOT DATE : 7/31/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

STA. 209+00'SE' TO 209+25'SE'



9

PROJECT NO: 5992-10-32	HWY: GAMMON ROAD	COUNTY: DANE	CROSS SECTIONS: 'STAGE WIDENING 'SE' LINE	SHEET	E

FILE NAME : N:\410737 - Gammon Road\Roadway\DGN\SheetsPlan\090220_XS_Stage Widening.dgn PLOT DATE : 7/31/2019 PLOT BY : kk226 PLOT NAME : PLOT SCALE : 1:10

WISDOT/CADDS SHEET 21

Notes

Wisconsin Department of Transportation

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