MAD Feb 14, 2023

PROJECT ID: 5420-02-72
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 = 554



N

DESIGN DESIGNATION

KNUTSON DR TO RIVER RD				RIVER RD TO STH 19			
A.A.D.T.	2023	=	20400	A.A.D.T.	2023	=	14400
A.A.D.T.	2043	=	22200	A.A.D.T.	2043	=	16400
D.H.V.	2043	=	2870	D.H.V.	2043	=	1910
D.D.		=	52/48	D.D.		=	59/41
T.		=	2.9%	T.		=	6.2%
DESIGN SPEED		=	60MPH	DESIGN SPEED		=	60MPH
ESALS		=	1,200,000	ESALS		=	2,100,000

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

MADISON-LODI

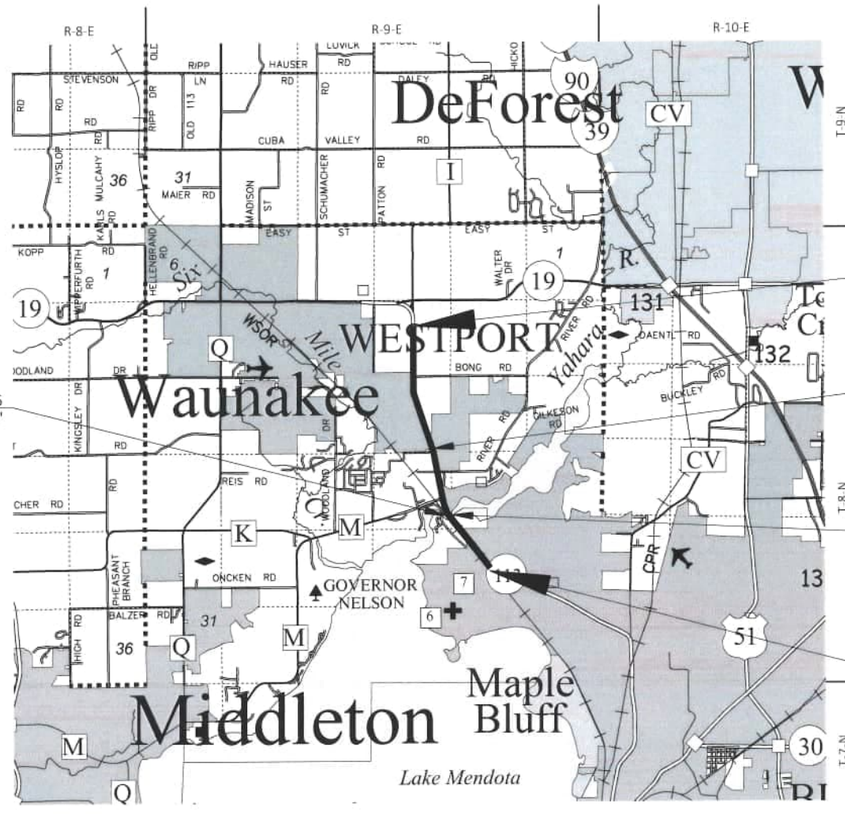
KNUTSON DRIVE TO STH 19

STH 113

DANE COUNTY

STATE PROJECT NUMBER
5420-02-72

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5420-02-72	WISC 2023221	1



END PROJECT
STA 189+42.63'TWL'

STATION EQUATION
STA 105+49.22'TWL' =
STA 105+49.22'SB', 12.00' RT =
STA 105+28.60'NB', 12.00' RT

STRUCTURE B-13-556
STA 49+69 - STA 50+60'SB'

STRUCTURE B-13-233
STA 49+69 - STA 50+59'NB'

BEGIN PROJECT
STA 10+00.00'NB'
Y = 507435.374
X = 818943.643

LAYOUT
SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 3.394 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), DANE COUNTY, NAD83 (2011), 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 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

CONVENTIONAL SYMBOLS

PLAN		PROFILE		UTILITIES	
CORPORATE LIMITS		GRADE LINE		ELECTRIC	E
PROPERTY LINE		ORIGINAL GROUND		FIBER OPTIC	FO
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	ROCK	GAS	G
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	LABEL	SANITARY SEWER	SAN
EXISTING RIGHT OF WAY		GRADE ELEVATION	95.36	STORM SEWER	SS
PROPOSED OR NEW R/W LINE		CULVERT (Profile View)		TELEPHONE	T
SLOPE INTERCEPT				WATER	W
REFERENCE LINE	300'EB			UTILITY PEDESTAL	
EXISTING CULVERT				POWER POLE	
PROPOSED CULVERT (Box or Pipe)				TELEPHONE POLE	
COMBUSTIBLE FLUIDS	CAUTION				
MARSH AREA					
WOODED OR SHRUB AREA					

ORIGINAL PLANS PREPARED BY

MSA
1702 Pankratz St Madison, WI 53704
608-242-7779 1-800-446-0679 Fax: 608-242-5664

STATE OF WISCONSIN
AMANDA M. DeAMICO
NO.43334-6
MADISON WI
PROFESSIONAL ENGINEER

DATE: 10/6/22 Amanda DeAmico (Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	MSA PROFESSIONAL SERVICES, INC.
Designer	MSA PROFESSIONAL SERVICES , INC.
Project Manager	CODY KAMMERZELT, P.E.
Regional Examiner	SOUTHWEST REGION
Regional Supervisor	JENNIFER KOBRYN, P.E.

APPROVED FOR THE DEPARTMENT

DATE: 10/6/22 Cody Kammerzelt (Signature)

E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\010101-TI.DWG

PLOT DATE : 9/22/2022 10:37 AM PLOT BY : NATHAN COOK PLOT NAME :

GENERAL NOTES

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

THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

THE LOCATIONS OF EROSION CONTROL ITEMS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

ALL DISTURBED AREAS WITHIN THE RIGHT OF WAY SHALL BE SALVAGED TOPSOILED, FERTILIZED, AND SEEDED AS DIRECTED BY THE ENGINEER.

RESTORATION OF EXPOSED SLOPES AND DITCHES SHALL TAKE PLACE IMMEDIATELY AFTER FINISHED GRADING IS COMPLETE.

EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY GRUBBING OR TOPSOIL STRIPPING OPERATIONS.

A VERTICAL SAWCUT SHALL BE MADE THROUGH EXISTING PAVEMENTS AT REMOVAL LIMITS.

CURB & GUTTER RADII AND ELEVATIONS ARE MEASURED FROM FACE OF CURB AND CURB FLANGE, RESPECTIVELY.

THE LOCATION OF STORM SEWER STRUCTURES REFERS TO THE CENTER OF THE STRUCTURE.

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

SIGNS IN CONFLICT WITH TRAFFIC CONTROL IN USE SHALL BE COVERED AS DIRECTED BY THE ENGINEER AND PAID FOR UNDER THE BID ITEM "TRAFFIC CONTROL COVERING SIGNS".

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS ARE APPROXIMATE AND MAY BE ADJUSTED TO FIT FIELD CONDITIONS.

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

HMA PAVEMENT AND ASPHALTIC SURFACE TEMPORARY WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN.

APPLY TACK COAT AT A RATE OF 0.05 GAL/SY BETWEEN LAYERS OF HMA PAVEMENT AND TO VERTICAL FACES.

EXISTING RIGHT OF WAY LINES ARE APPROXIMATE AND BASED ON COUNTY GIS DATA ALONG THE PAVEMENT REPLACEMENT PORTION OF THE PROJECT. EXISTING RIGHT OF WAY WITHIN THE ROUNDABOUT LIMITS WERE SURVEYED.

STANDARD ABBREVIATIONS

AC	ACRES
AEW	APRON ENDWALL
AGG	AGGREGATE
AH	AHEAD
ALUM.	ALUMINUM
A.P.	ACCESS POINT
ASPH	ASPHALT
AVE	AVENUE
BAD	BASE AGGREGATE DENSE
BK	BACK
BLK	BLOCK
BOC	BACK OF CURB
BOW	BACK OF SIDEWALK
BM	BENCHMARK
CABC	CRUSHED AGGREGATE BASE COURSE
CL or ℄	CENTERLINE
Δ	CENTRAL ANGLE or DELTA
CMCP	CORRUGATED METAL CULVERT PIPE
CONC	CONCRETE
CP	CONTROL POINT
CPCS	CULVERT PIPE CORRUGATED STEEL
CSM	CERTIFIED SURVEY MAP
CTH	COUNTY TRUNK HIGHWAY
D	DEGREE OF CURVATURE
DES	DESIRABLE
E	EAST
EB	EASTBOUND
EBS	EXCAVATION BELOW SUBGRADE
EOP	EDGE OF PAVEMENT
ET AL	AND OTHERS
EW	ENDWALL
EXIST	EXISTING
FT	FOOT
FT2	SQUARE FEET
GN	GRID NORTH
GV	GAS VALVE
HERCP	HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE
HYD	HYDRANT
IN	INCH
INL	INLET
INV	INVERT
IP	IRON PIPE
L	LENGTH
L	LENGTH OF CURVE
LC	LONG CHORD
LCP	LONG CHORD BEARING
LF	LINEAR FEET
LT	LEFT
MH	MANHOLE
MON	MONUMENT
N	NORTH
NB	NORTHBOUND
N.C.	NORMAL CROWN
NO	NUMBER
PB	PULLBOX
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PLE	PERMANENT LIMITED EASEMENT
POB	POINT OF BEGINNING
PT	POINT OF TANGENCY
R	RADIUS
R	RANGE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REQ'D	REQUIRED
RL or R/L	REFERENCE LINE
RP	RADIUS POINT
RT	RIGHT
R/W	RIGHT OF WAY
S	SOUTH
SAN	SANITARY SEWER
SB	SOUTHBOUND
S.E.	SUPERELEVATION
SEC	SECTION
SSP	STORM SEWER PIPE
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
SQ	SQUARE
ST	STREET
STA	STATION
STD	STANDARD
STH	STATE TRUNK HIGHWAY
STM	STORM SEWER
STR	STRUCTURE
T	TANGENT
TAN	TANGENT
TEMP	TEMPORARY
TLE	TEMPORARY LIMITED EASEMENT
T or TN	TOWN
TYP.	TYPICAL
WM	WATERMIN
WV	WATER VALVE
W	WEST
WB	WESTBOUND
X	EAST GRID COORDINATE
Y	NORTH GRID COORDINATE

UTILITY CONTACTS

GAS/PETROLEUM

MADISON GAS AND ELECTRIC COMPANY - GAS/PETROLEUM
ROGER AHLES
623 RAILROAD RD
MADISON, WI 53701
PHONE: (608) 252-5682
EMAIL: RAHLES@MGE.COM

MUNICIPAL

MADISON METROPOLITAN SEWERAGE DISTRICT - SEWER
RAY SCHNEIDER
1610 MOORLAND RD
MADISON, WI 53713
PHONE: (608) 347-3628
EMAIL: CSS@MADSEWER.ORG

MADISON WATER UTILITY - WATER
TIM PEARSON
119 E OLIN AVE
MADISON, WI 53713-1431
PHONE: (608) 206-3956
EMAIL: TPEARSON@MADISONWATER.ORG

WESTPORT WATER UTILITY - SEWER
BARRY BUCKWALTER
5387 MARY LAKE RD
WAUNAKEE, WI 53597
PHONE: (608) 219-1416
EMAIL: BBUCKWALTER@TOWNOFWESTPORT.ORG

WESTPORT WATER UTILITY - WATER
BARRY BUCKWALTER
5387 MARY LAKE RD
WAUNAKEE, WI 53597
PHONE: (608) 219-1416
EMAIL: BBUCKWALTER@TOWNOFWESTPORT.ORG

ELECTRICITY

ATC MANAGEMENT, INC. - ELECTRICITY-TRANSMISSION
DOUG VOSBERG
2489 RINDEN ROAD
COTTAGE GROVE, WI 53527
PHONE: (608) 877-7650
EMAIL: DVOSBERG@ATCLLC.COM

MADISON GAS AND ELECTRIC COMPANY - ELECTRICITY
ANTHONY SANFRATELLO
623 RAILROAD ST
MADISON, WI 53718
PHONE: (608) 931-1284
EMAIL: ASANFRATELLO@MGE.COM

WAUNAKEE UTILITIES - ELECTRICITY
JOHN MCLAIN
322 MORAVIAN VALLEY RD
PO BOX 70
WAUNAKEE, WI 53597
PHONE: (608) 235-6441
EMAIL: JMCLAIN@WAUNAKEEUTILITIES.COM

COMMUNICATIONS

AT&T WISCONSIN - COMMUNICATION LINE
MATTHEW VACHALIK
411 7TH ST
RACINE, WI 53403
PHONE: (262) 707-6216
EMAIL: MV5616@ATT.COM

CITY OF MADISON ENGINEERING - COMMUNICATION LINE
GRAHAM HEITZ
215 MLK JR BLVD, MMB, SUITE 100
MADISON, WI 53703
PHONE: (608) 266-4589
EMAIL: GHEITZ@CITYOFMADISON.COM

EVERSTREAM - COMMUNICATION LINE
SHAD GARCIA
324 E WISCONSIN AVE, SUITE 730
MILWAUKEE, WI 53202
PHONE: (414) 522-6685
EMAIL: SGARCIA@EVERSTREAM.NET

MCI - COMMUNICATION LINE
RJ CICATELLO JR.
15725 WEST RYERSON RD
NEW BERLIN, WI 53151
PHONE: (262) 232-1323
EMAIL: RANDY.CICATELLO@VERIZON.COM

SPECTRUM - COMMUNICATION LINE
JOE MCCLEARN
2701 DANIELS ST
MADISON, WI 53718
PHONE: (920) 979-2603
EMAIL: JOE.MCCLEARN2@CHARTER.COM

SPRINT COMMUNICATIONS CO LP - COMMUNICATION LINE
DAN HILLIARD
849 EARL ST
SAINT PAUL, MN 55106
PHONE: (612) 217-3526
EMAIL: DAN.J.HILLIARD@T-MOBILE.COM

TDS TELECOM - COMMUNICATION LINE
MICHAEL RITCHIE
6484 RONALD REAGAN AVE
MADISON, WI 53704
PHONE: (608) 347-7542
EMAIL: MRITCHIE@MI-TECH.US

ORDER OF SECTION 2 SHEETS:

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PAVEMENT DETAILS
CURB RAMP DETAILS
PAVING GRADES
ROUNDABOUT CROSS SECTION MATCHLINES
EROSION CONTROL
STORM SEWER
EXISTING SIGN REMOVALS
PERMANENT SIGNING
LIGHTING PLAN
TEMPORARY TRAFFIC SIGNAL PLAN (BY WISDOT)
TRAFFIC SIGNAL REMOVAL PLAN (BY WISDOT)
TRAFFIC SIGNAL PLAN (BY WISDOT)
PAVEMENT MARKING
TRAFFIC CONTROL AND CONSTRUCTION STAGING
DETOUR PLAN
ALIGNMENT & SUPERELEVATION DETAILS

DESIGN CONTACTS

WISCONSIN DEPARTMENT OF TRANSPORATION
SOUTHWEST REGION
ATTN: CODY KAMMERZELT, P.E.
2101 WRIGHT STREET
MADISON, WI 53704
PHONE: (608) 219-1331
EMAIL: CODY.KAMMERZELT@DOT.WI.GOV

MSA PROFESSIONAL SERVICES, INC.
ATTN: AMANDA DEAMICO
1702 PANKRATZ STREET
MADISON, WI 53704
PHONE: (608) 216-2060
E-MAIL: ADEAMICO@MSA-PS.COM

DNR CONTACT

DNR SOUTH CENTRAL REGION
ERIC HEGGELUND
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
PHONE: (608) 228-7927
EMAIL: ERIC.HEGGELUND@WISCONSIN.GOV

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

2

19

19

2

Waunakee

WESTPORT

Q

WSOR

HOGAN RD

113

END PROJECT
STA 189+42.63'TWL'

ABORETUM DR

BONG RD

PROPOSED ROUNDABOUT

RIVER RD

Six Mile Cr.

STATION EQUATION
STA 105+49.22'TWL' =
STA 105+49.22'SB', 12.00' RT =
STA 105+28.60'NB', 12.00' RT

GILKESON RD

N

REIS RD

WOODLAND DR

KENNEDY DR

Yahara R.

STRUCTURE B-13-233
STA 49+69- STA 50+59'NB'

K

M

STRUCTURE B-13-556
STA 49+69 - STA 50+60'SB'

WESTPORT RD

CV

Madison

Lake Mendota

BEGIN PROJECT
STA 10+00'NB'
Y = 507435.374
X = 818943.643

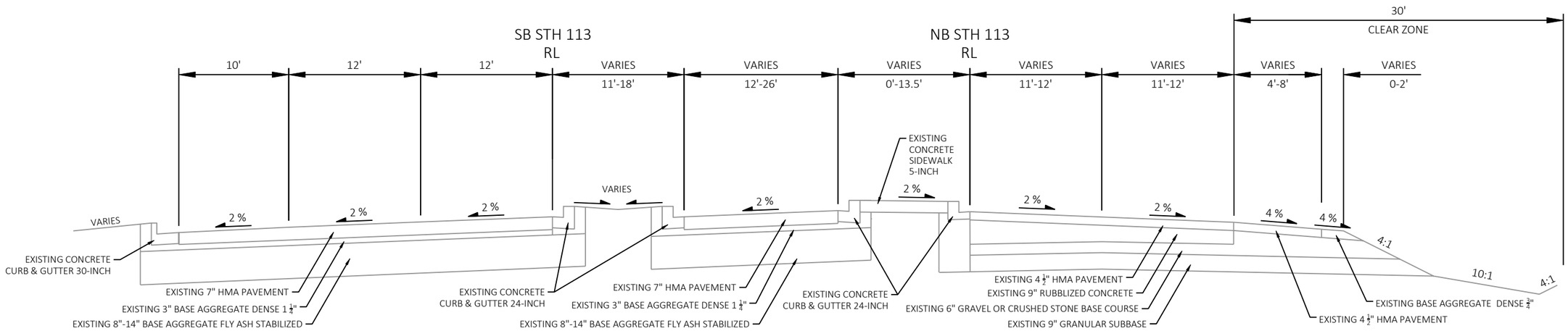
KNUTSON DR

113

CPR

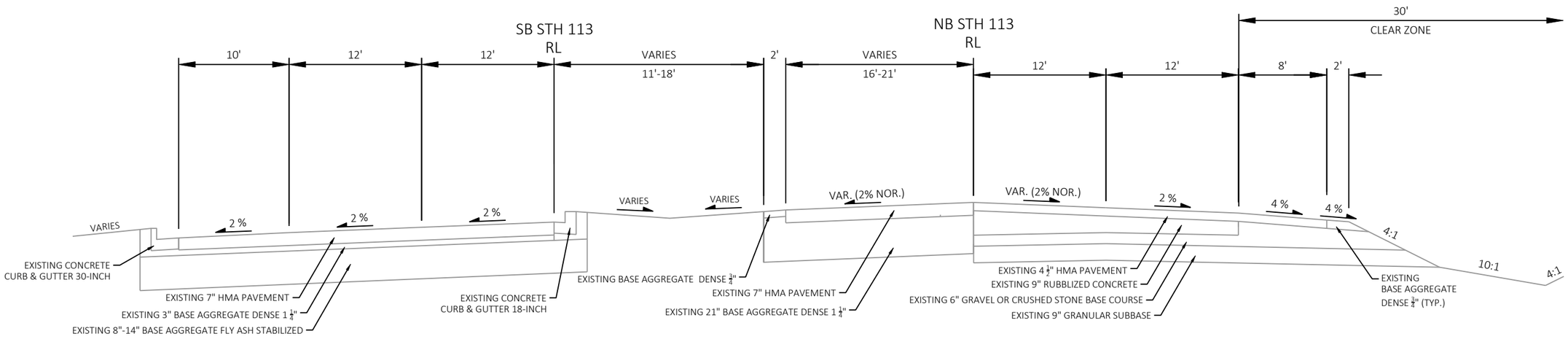
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PROJECT OVERVIEW	SHEET 3	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\020201-PO.DWG
LAYOUT NAME - 020201-po
PLOT DATE : 4/19/2022 12:14 PM
PLOT BY : NATHAN COOK
PLOT NAME :
PLOT SCALE : 1 IN:2000 FT



EXISTING TYPICAL SECTION

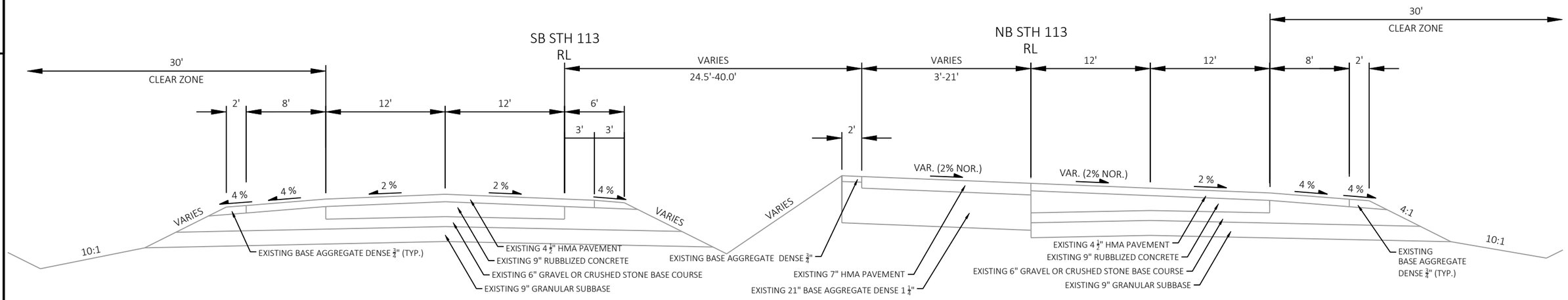
STA 7+59 - 10+96 'NB'



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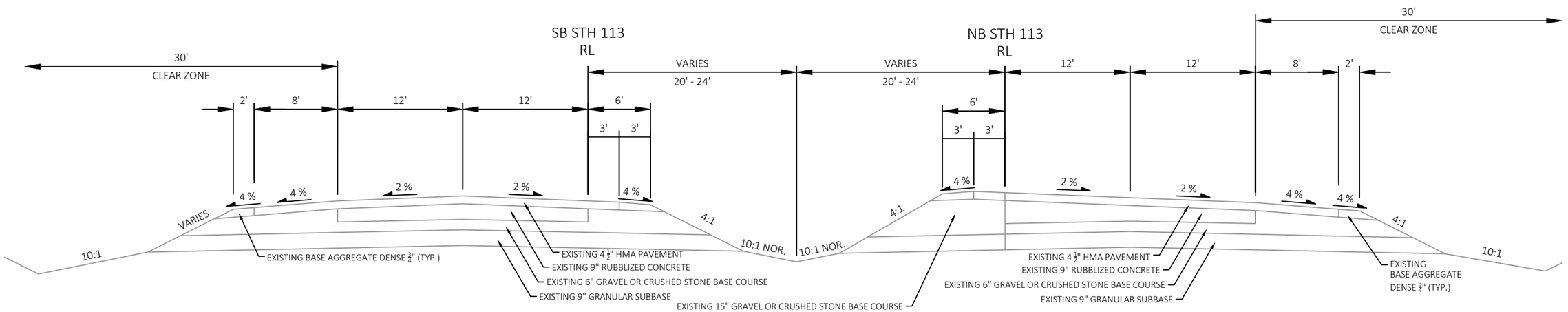
STA 10+96 - 11+90 'NB'

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	EXISTING TYPICAL SECTIONS	SHEET 4	E



EXISTING TYPICAL SECTION

STA 11+90 - 22+07 'NB'

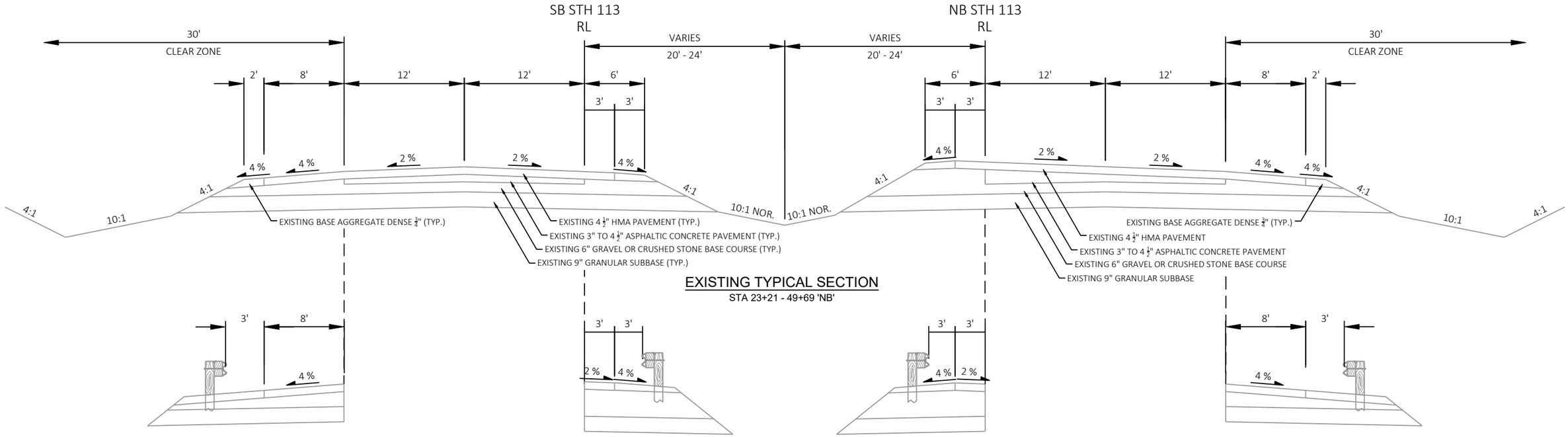


EXISTING TYPICAL SECTION

STA 22+07 - 23+21 'NB'

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	EXISTING TYPICAL SECTIONS	SHEET 5	E

2



EXISTING TYPICAL SECTION

STA 23+21 - 49+69 'NB'

STA 48+77'NB' TO 49+60'NB'

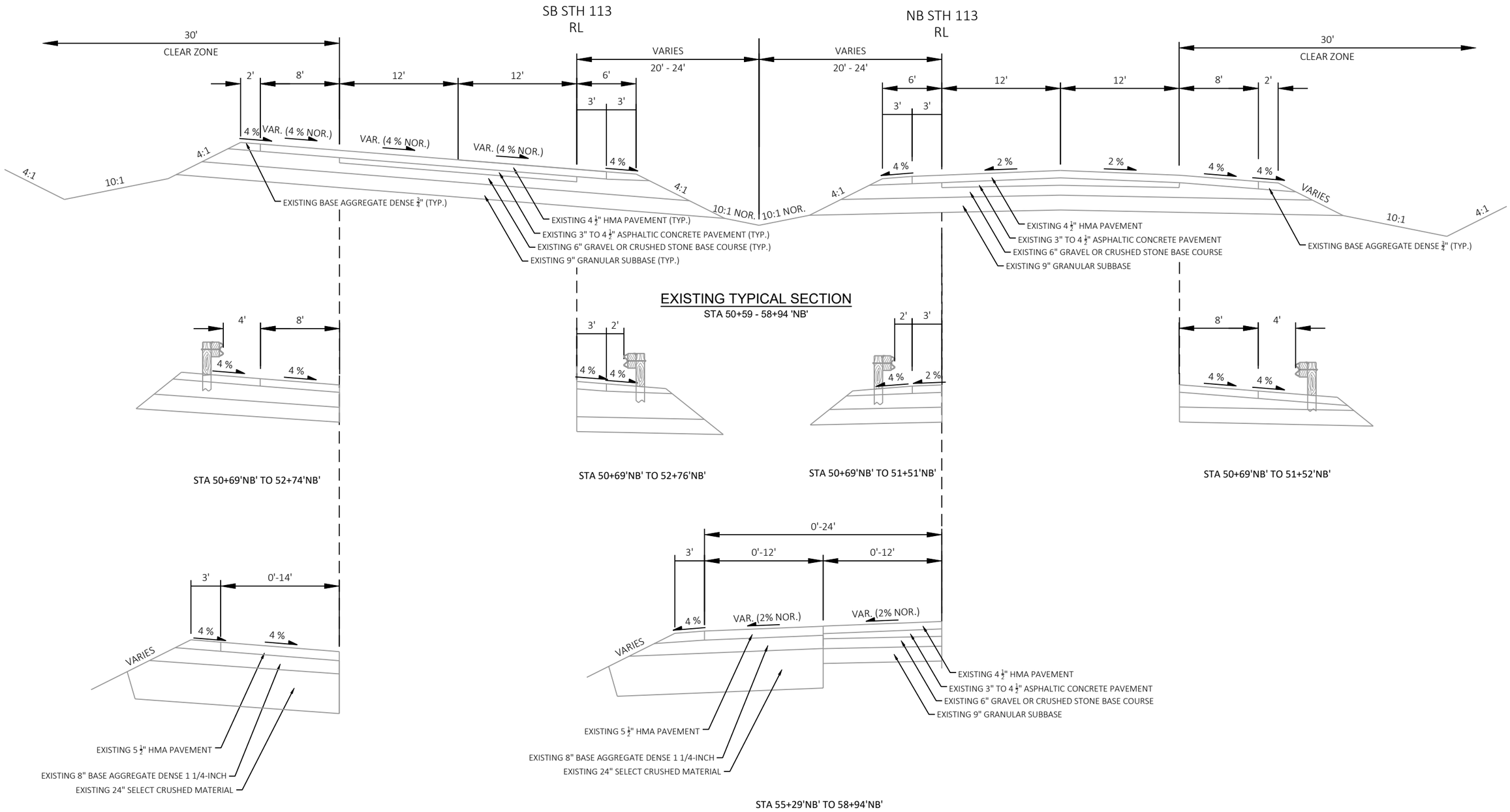
STA 48+77'NB' TO 49+60'NB'

STA 47+50'NB' TO 49+58'NB'

STA 47+88'NB' TO 49+58'NB'

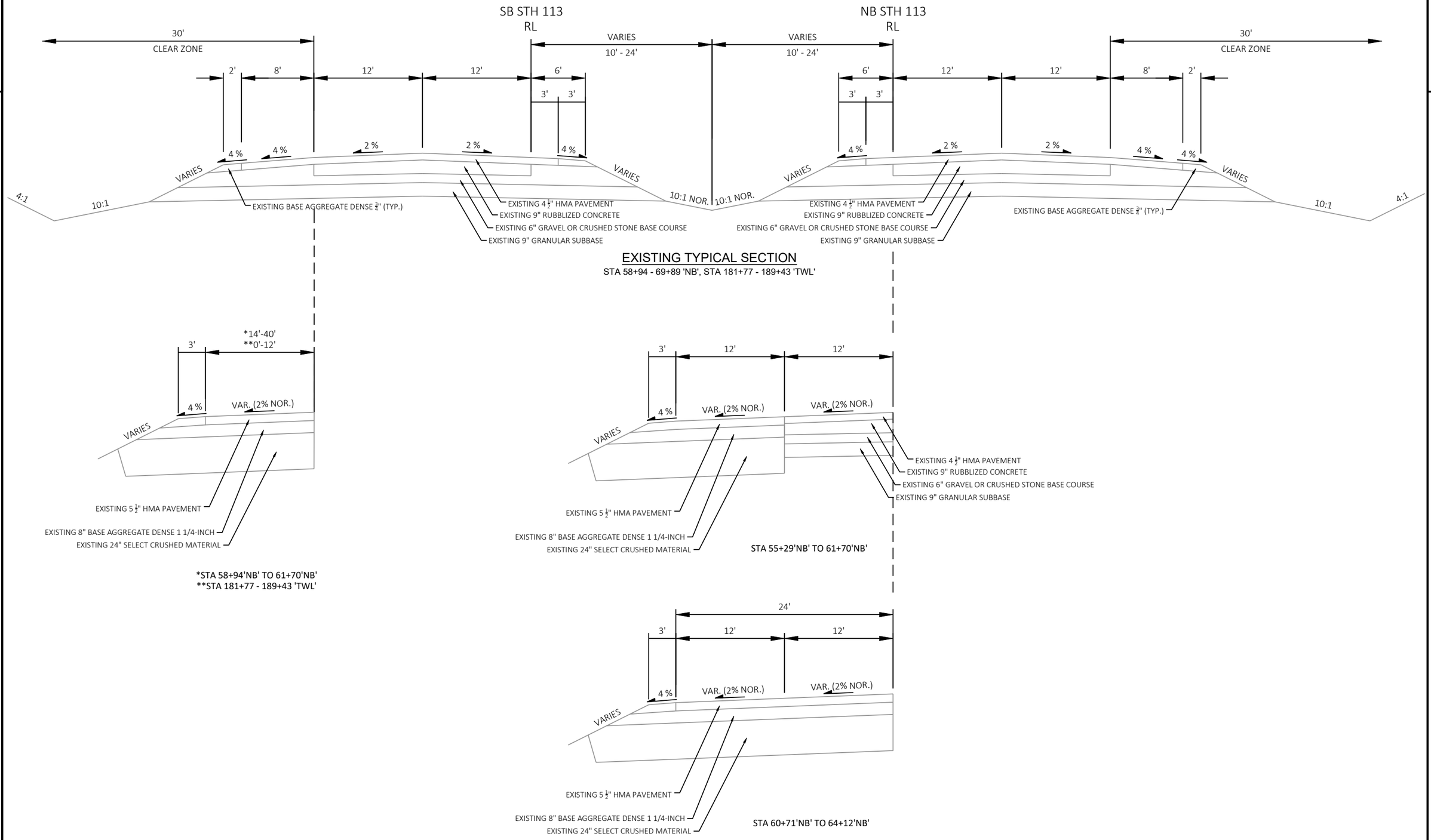
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PLOT DATE : 10/14/2022 9:29 AM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	EXISTING TYPICAL SECTIONS	SHEET 7	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\020301-TS.DWG
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PLOT DATE : 10/14/2022 9:29 AM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



EXISTING TYPICAL SECTION

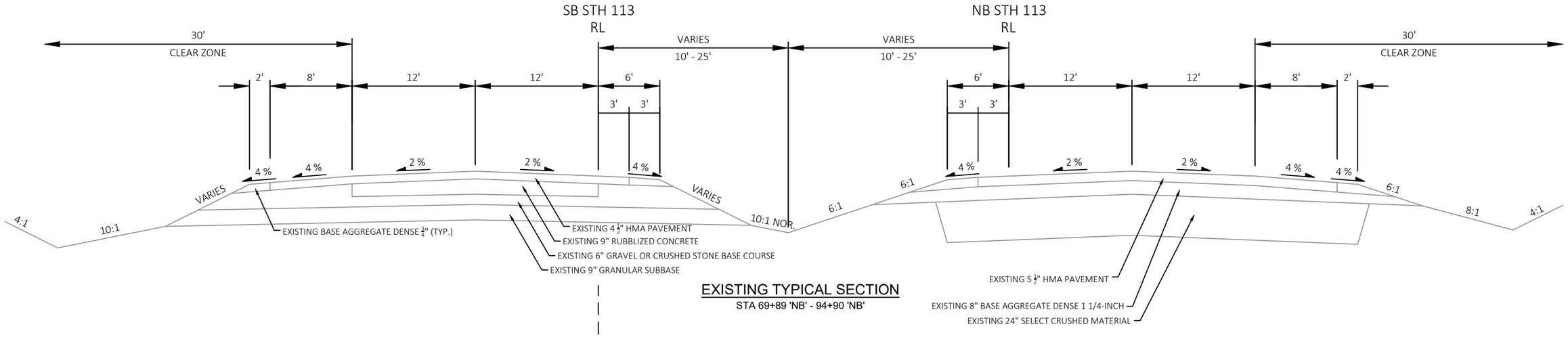
STA 58+94 - 69+89 'NB', STA 181+77 - 189+43 'TWL'

*STA 58+94'NB' TO 61+70'NB'
**STA 181+77 - 189+43 'TWL'

STA 55+29'NB' TO 61+70'NB'

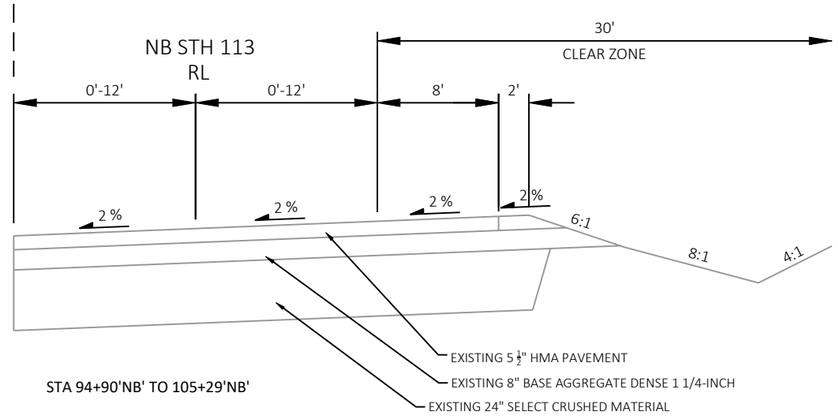
STA 60+71'NB' TO 64+12'NB'

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	EXISTING TYPICAL SECTIONS	SHEET 8	E

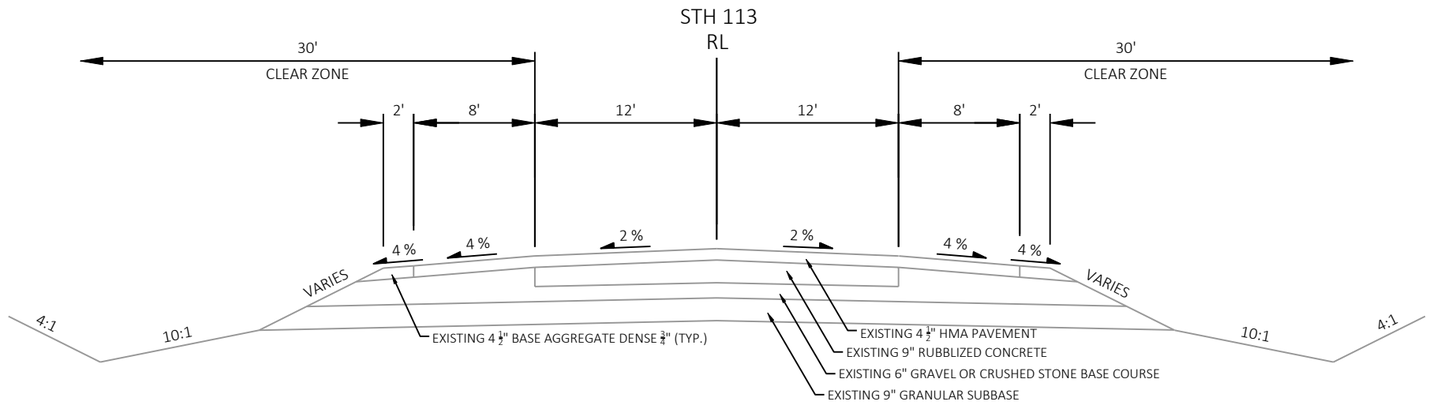


EXISTING TYPICAL SECTION

STA 69+89 'NB' - 94+90 'NB'



STA 94+90'NB' TO 105+29'NB'

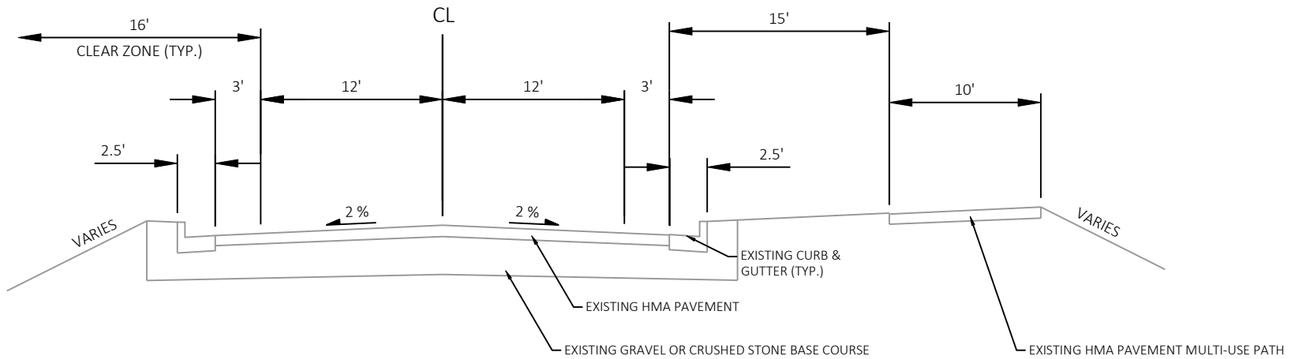


EXISTING TYPICAL SECTION

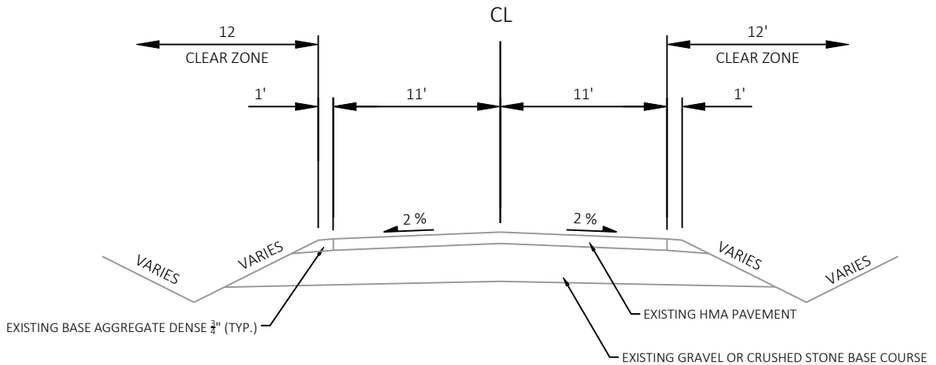
STA 94+90 'NB' - 181+77 'TWL'

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	EXISTING TYPICAL SECTIONS	SHEET 9	E

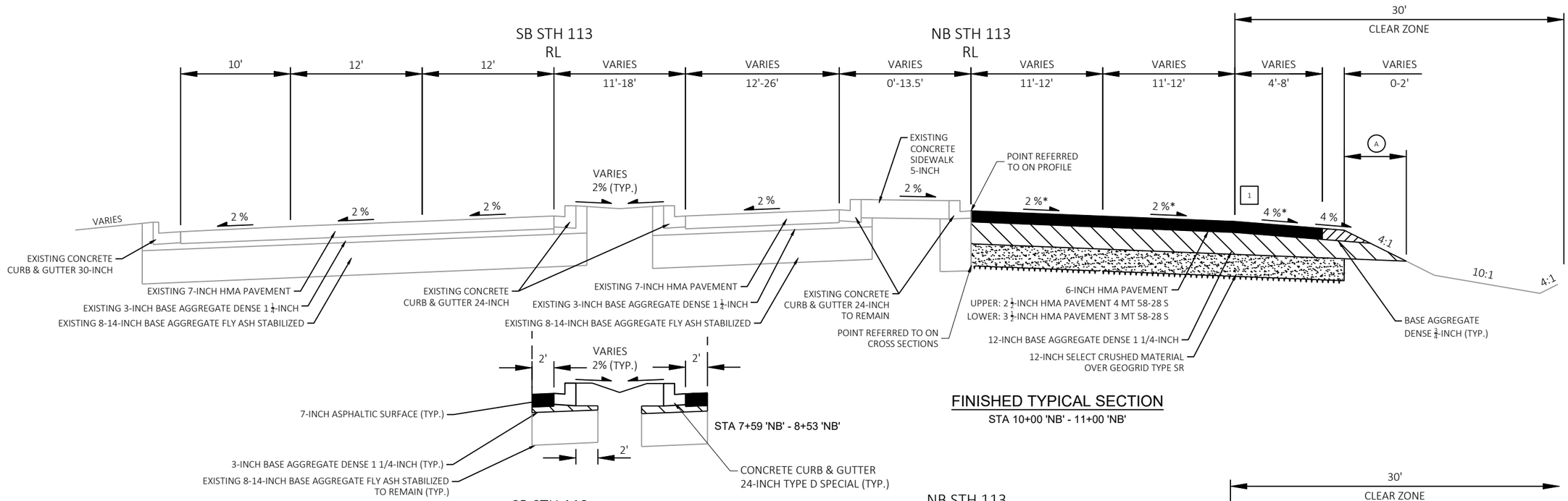
2



EXISTING TYPICAL SECTION
ARBORETUM DR

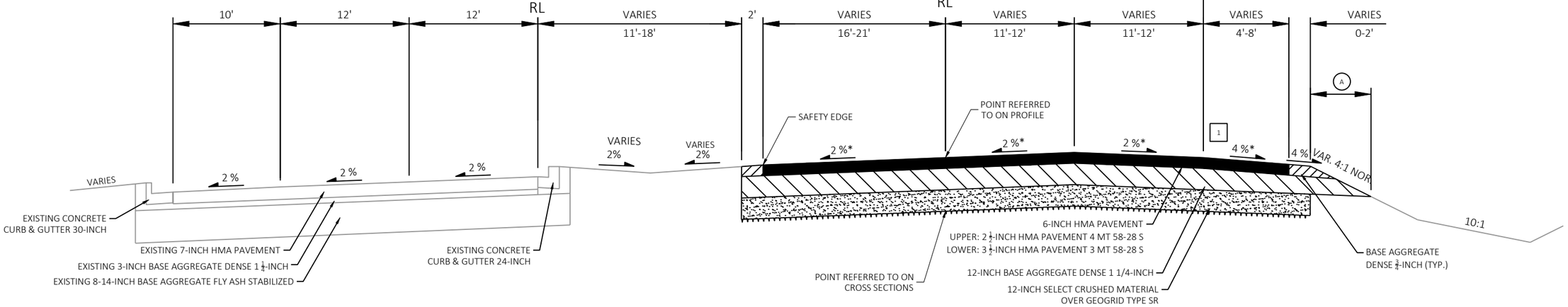


EXISTING TYPICAL SECTION
BONG RD



FINISHED TYPICAL SECTION

STA 10+00 'NB' - 11+00 'NB'



FINISHED TYPICAL SECTION

STA 11+00 'NB' - 11+90 'NB'

LEGEND

- (A) SEED MIXTURE #30 WITH TEMPORARY SEEDING & FERTILIZER TYPE B. SEED MIXTURE #40 & FERTILIZER TYPE B FOR CENTRAL ISLAND
- (B) 4" SALVAGED TOPSOIL
- (C) MULCHING OR EROSION MAT (SEE EROSION CONTROL PLANS FOR EROSION MAT TYPE)
- [1] ASPHALTIC SHOULDER RUMBLE STRIPS
- [2] ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- [3] ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL

- CONCRETE
- HMA PAVEMENT
- BASE AGGREGATE DENSE 3/4-INCH
- BASE AGGREGATE DENSE 1 1/4-INCH
- SELECTED CRUSHED MATERIAL

NOTES

* SEE ALIGNMENT DETAILS FOR SUPERELEVATION TRANSITIONS

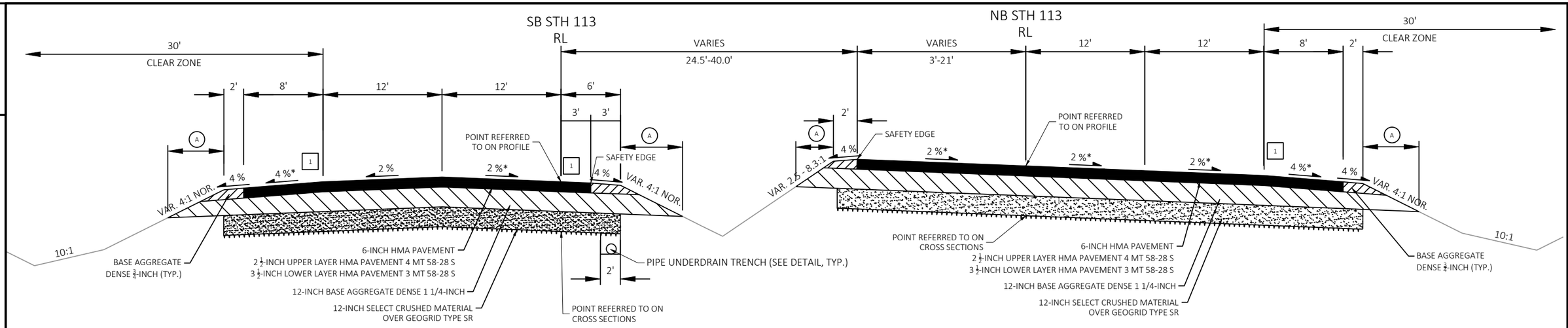
** SEE PLAN DETAILS AND ALIGNMENT DETAILS FOR OVERTRACKING PAD LOCATIONS

*** SEE PLAN DETAILS FOR CONCRETE CURB & GUTTER TYPE AND LOCATIONS OF REJECT GUTTER

SEE STORM SEWER PLANS FOR PIPE UNDERDRAIN LOCATIONS

FRENCH DRAINS REQUIRED ON RURAL SECTIONS. SEE CONSTRUCTION DETAIL

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	FINISHED TYPICAL SECTIONS	SHEET 11	E



FINISHED TYPICAL SECTION

STA 11+90 'SB' - 22+07 'SB'

FINISHED TYPICAL SECTION

STA 11+90 'NB' - 22+07 'NB'

LEGEND

- (A) SEED MIXTURE #30 WITH TEMPORARY SEEDING & FERTILIZER TYPE B. SEED MIXTURE #40 & FERTILIZER TYPE B FOR CENTRAL ISLAND
- (B) 4" SALVAGED TOPSOIL
- (C) MULCHING OR EROSION MAT (SEE EROSION CONTROL PLANS FOR EROSION MAT TYPE)
- [1] ASPHALTIC SHOULDER RUMBLE STRIPS
- [2] ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- [3] ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL

- CONCRETE
- HMA PAVEMENT
- BASE AGGREGATE DENSE 3/4-INCH
- BASE AGGREGATE DENSE 1 1/4-INCH
- SELECTED CRUSHED MATERIAL

NOTES

* SEE ALIGNMENT DETAILS FOR SUPERELEVATION TRANSITIONS

** SEE PLAN DETAILS AND ALIGNMENT DETAILS FOR OVERTRACKING PAD LOCATIONS

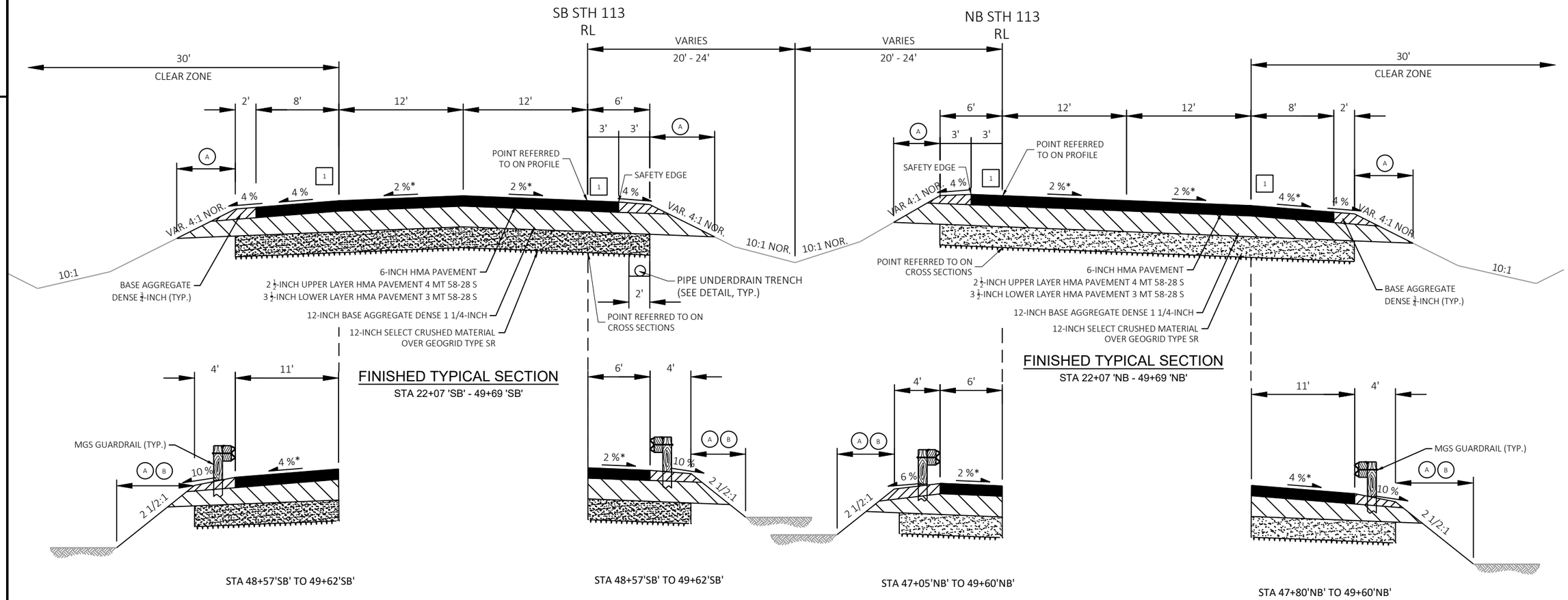
*** SEE PLAN DETAILS FOR CONCRETE CURB & GUTTER TYPE AND LOCATIONS OF REJECT GUTTER

SEE STORM SEWER PLANS FOR PIPE UNDERDRAIN LOCATIONS

FRENCH DRAINS REQUIRED ON RURAL SECTIONS. SEE CONSTRUCTION DETAIL

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	FINISHED TYPICAL SECTIONS	SHEET 12	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020309-ts
PLOT DATE : 10/31/2022 8:44 AM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



LEGEND

- (A) SEED MIXTURE #30 WITH TEMPORARY SEEDING & FERTILIZER TYPE B. SEED MIXTURE #40 & FERTILIZER TYPE B FOR CENTRAL ISLAND
- (B) 4" SALVAGED TOPSOIL
- (C) MULCHING OR EROSION MAT (SEE EROSION CONTROL PLANS FOR EROSION MAT TYPE)
- [1] ASPHALTIC SHOULDER RUMBLE STRIPS
- [2] ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- [3] ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL

- CONCRETE
- HMA PAVEMENT
- BASE AGGREGATE DENSE 3/4-INCH
- BASE AGGREGATE DENSE 1 1/4-INCH
- SELECTED CRUSHED MATERIAL

NOTES

* SEE ALIGNMENT DETAILS FOR SUPERELEVATION TRANSITIONS

** SEE PLAN DETAILS AND ALIGNMENT DETAILS FOR OVERTRACKING PAD LOCATIONS

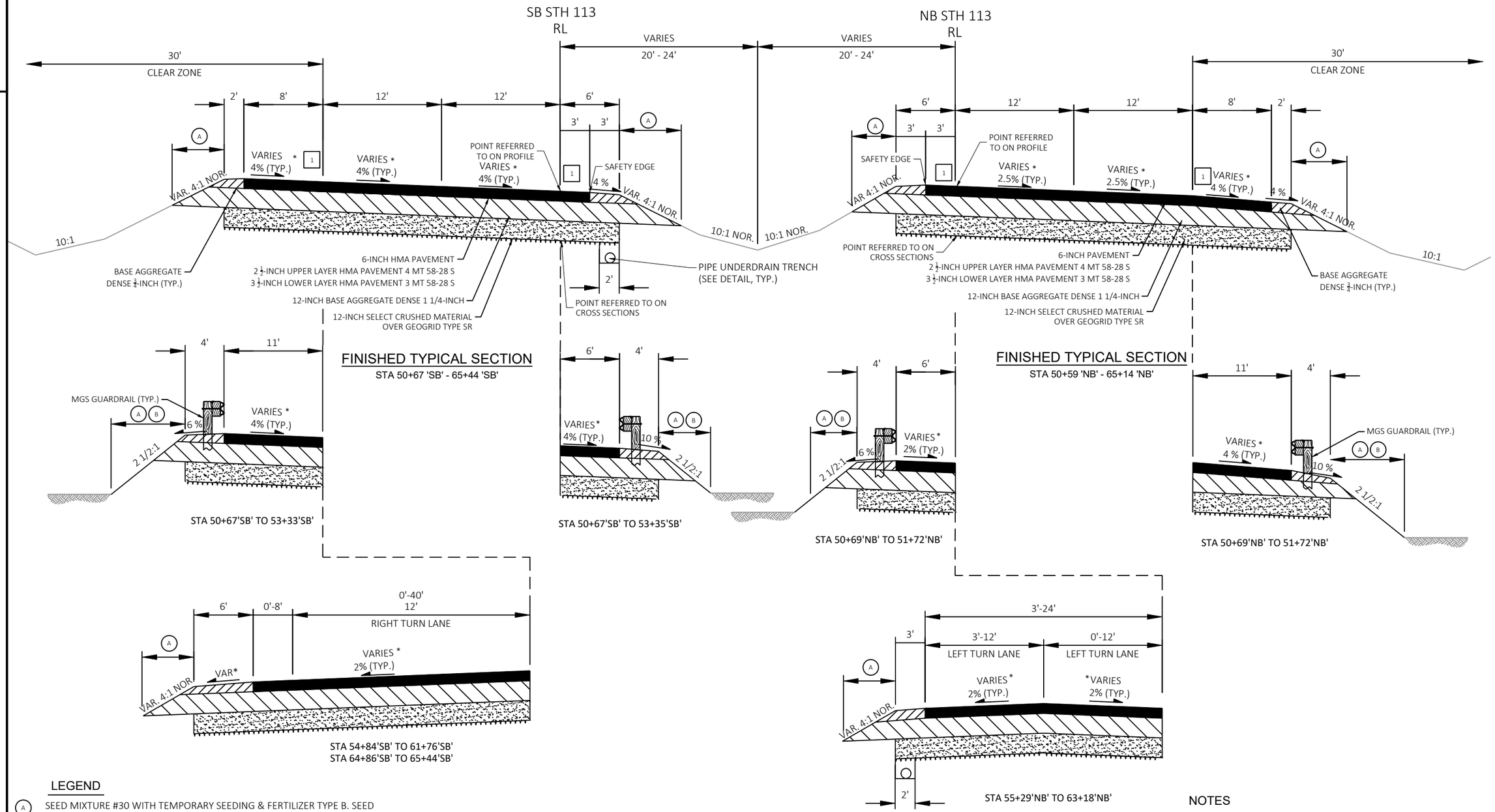
*** SEE PLAN DETAILS FOR CONCRETE CURB & GUTTER TYPE AND LOCATIONS OF REJECT GUTTER

SEE STORM SEWER PLANS FOR PIPE UNDERDRAIN LOCATIONS

FRENCH DRAINS REQUIRED ON RURAL SECTIONS. SEE CONSTRUCTION DETAIL

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	FINISHED TYPICAL SECTIONS	SHEET 13	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020310-ts
PLOT DATE : 10/31/2022 8:44 AM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



LEGEND

- (A) SEED MIXTURE #30 WITH TEMPORARY SEEDING & FERTILIZER TYPE B. SEED MIXTURE #40 & FERTILIZER TYPE B FOR CENTRAL ISLAND
- (B) 4" SALVAGED TOPSOIL
- (C) MULCHING OR EROSION MAT (SEE EROSION CONTROL PLANS FOR EROSION MAT TYPE)
- [1] ASPHALTIC SHOULDER RUMBLE STRIPS
- [2] ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- [3] ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL

- CONCRETE
- HMA PAVEMENT
- BASE AGGREGATE DENSE 3/4-INCH
- BASE AGGREGATE DENSE 1 1/4-INCH
- SELECTED CRUSHED MATERIAL

NOTES

* SEE ALIGNMENT DETAILS FOR SUPERELEVATION TRANSITIONS

** SEE PLAN DETAILS AND ALIGNMENT DETAILS FOR OVERTRACKING PAD LOCATIONS

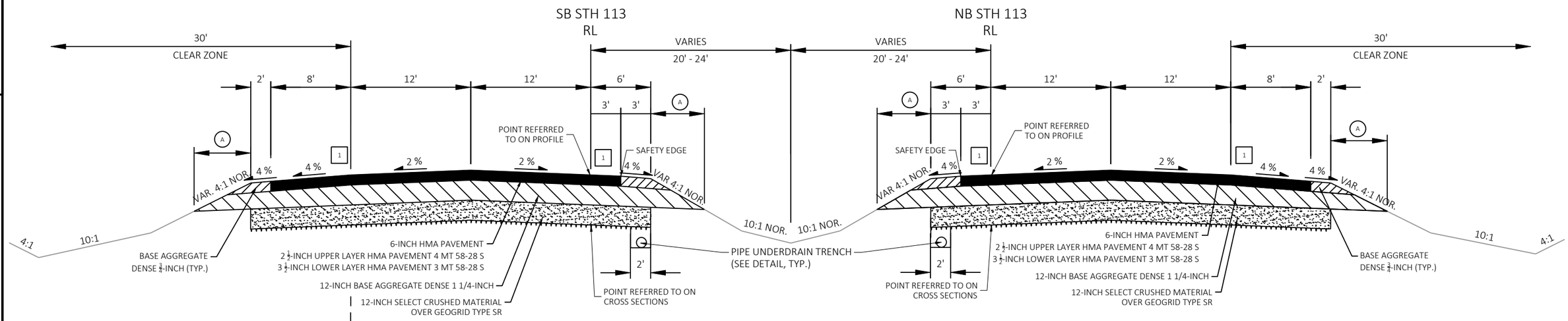
*** SEE PLAN DETAILS FOR CONCRETE CURB & GUTTER TYPE AND LOCATIONS OF REJECT GUTTER

SEE STORM SEWER PLANS FOR PIPE UNDERDRAIN LOCATIONS

FRENCH DRAINS REQUIRED ON RURAL SECTIONS. SEE CONSTRUCTION DETAIL

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	FINISHED TYPICAL SECTIONS	SHEET 14	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020311-ts
PLOT DATE : 10/31/2022 8:44 AM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

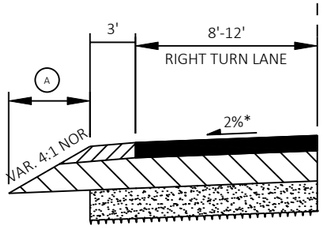


FINISHED TYPICAL SECTION

STA 65+44 'SB'- 75+34 'SB'
STA 90+31 'SB' - 94+90 'SB'
STA 181+77 'NC' - 189+45 'NC'

FINISHED TYPICAL SECTION

STA 65+14 'NB' - 75+11 'NB'
STA 94+10 'NB' - 94+90 'NB'
STA 181+77 'TWL' - 189+43 'TWL'



STA 65+44'SB' TO 70+11'SB'

LEGEND

- (A) SEED MIXTURE #30 WITH TEMPORARY SEEDING & FERTILIZER TYPE B. SEED MIXTURE #40 & FERTILIZER TYPE B FOR CENTRAL ISLAND
- (B) 4" SALVAGED TOPSOIL
- (C) MULCHING OR EROSION MAT (SEE EROSION CONTROL PLANS FOR EROSION MAT TYPE)
- [1] ASPHALTIC SHOULDER RUMBLE STRIPS
- [2] ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- [3] ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL

- CONCRETE
- HMA PAVEMENT
- BASE AGGREGATE DENSE 3/4-INCH
- BASE AGGREGATE DENSE 1 1/4-INCH
- SELECTED CRUSHED MATERIAL

NOTES

* SEE ALIGNMENT DETAILS FOR SUPERELEVATION TRANSITIONS

** SEE PLAN DETAILS AND ALIGNMENT DETAILS FOR OVERTRACKING PAD LOCATIONS

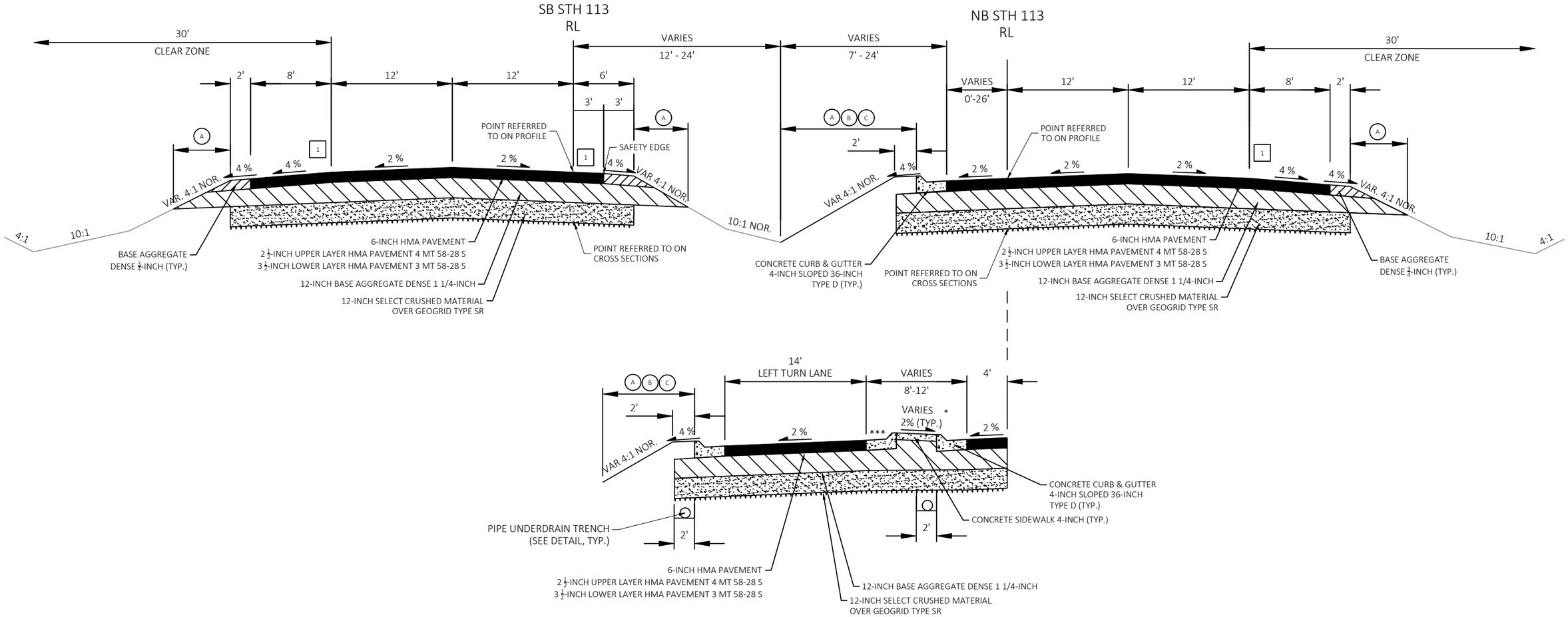
*** SEE PLAN DETAILS FOR CONCRETE CURB & GUTTER TYPE AND LOCATIONS OF REJECT GUTTER

SEE STORM SEWER PLANS FOR PIPE UNDERDRAIN LOCATIONS

FRENCH DRAINS REQUIRED ON RURAL SECTIONS. SEE CONSTRUCTION DETAIL

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	FINISHED TYPICAL SECTIONS	SHEET 15	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020312-ts
PLOT DATE : 10/31/2022 8:44 AM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



STA 78+33'NB' TO 79+06'NB'

FINISHED TYPICAL SECTION

STA 75+34 - 79+06 'SB'

FINISHED TYPICAL SECTION

STA 75+11 - 79+06 'NB'

LEGEND

- (A) SEED MIXTURE #30 WITH TEMPORARY SEEDING & FERTILIZER TYPE B. SEED MIXTURE #40 & FERTILIZER TYPE B FOR CENTRAL ISLAND
- (B) 4" SALVAGED TOPSOIL
- (C) MULCHING OR EROSION MAT (SEE EROSION CONTROL PLANS FOR EROSION MAT TYPE)
- [1] ASPHALTIC SHOULDER RUMBLE STRIPS
- [2] ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- [3] ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL

- CONCRETE
- HMA PAVEMENT
- BASE AGGREGATE DENSE 3/4-INCH
- BASE AGGREGATE DENSE 1 1/4-INCH
- SELECTED CRUSHED MATERIAL

NOTES

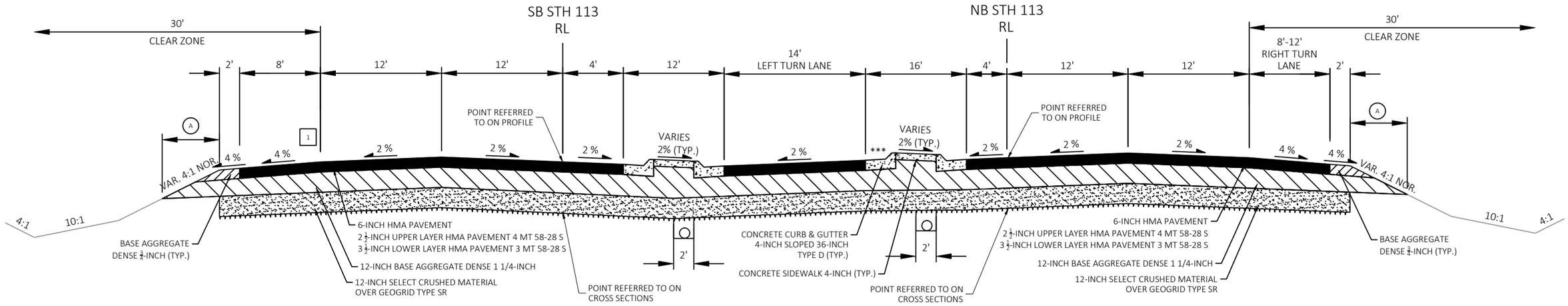
- * SEE ALIGNMENT DETAILS FOR SUPERELEVATION TRANSITIONS
- ** SEE PLAN DETAILS AND ALIGNMENT DETAILS FOR OVERTRACKING PAD LOCATIONS
- *** SEE PLAN DETAILS FOR CONCRETE CURB & GUTTER TYPE AND LOCATIONS OF REJECT GUTTER

SEE STORM SEWER PLANS FOR PIPE UNDERDRAIN LOCATIONS

FRENCH DRAINS REQUIRED ON RURAL SECTIONS. SEE CONSTRUCTION DETAIL

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	FINISHED TYPICAL SECTIONS	SHEET 16	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020313-ts
PLOT DATE : 10/31/2022 8:44 AM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

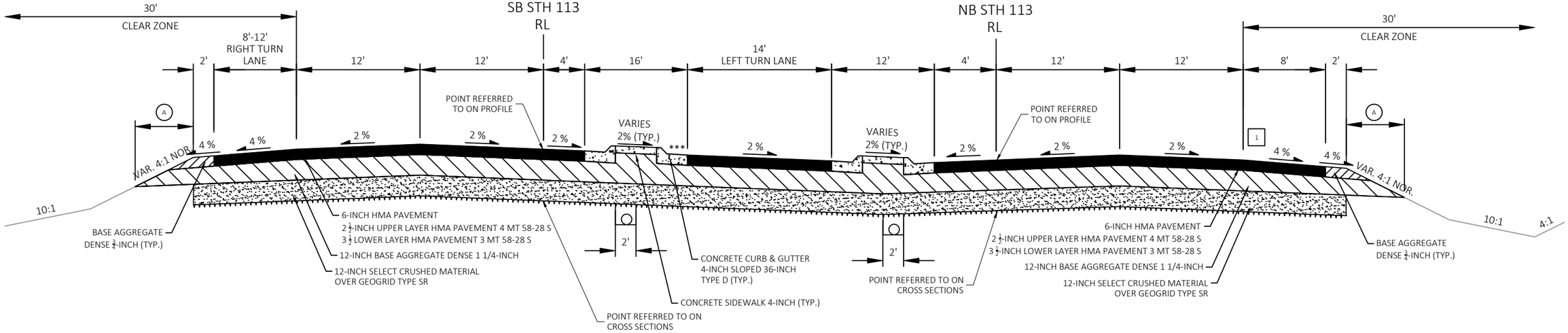


FINISHED TYPICAL SECTION

STA 79+06 - 82+26 'SB'

FINISHED TYPICAL SECTION

STA 79+06 - 82+03 'NB'



FINISHED TYPICAL SECTION

STA 83+39 - 86+59 'SB'

FINISHED TYPICAL SECTION

STA 83+13 - 86+36 'NB'

LEGEND

- (A) SEED MIXTURE #30 WITH TEMPORARY SEEDING & FERTILIZER TYPE B. SEED MIXTURE #40 & FERTILIZER TYPE B FOR CENTRAL ISLAND
- (B) 4" SALVAGED TOPSOIL
- (C) MULCHING OR EROSION MAT (SEE EROSION CONTROL PLANS FOR EROSION MAT TYPE)
- [1] ASPHALTIC SHOULDER RUMBLE STRIPS
- [2] ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- [3] ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL

- CONCRETE
- HMA PAVEMENT
- BASE AGGREGATE DENSE 3/4-INCH
- BASE AGGREGATE DENSE 1 1/4-INCH
- SELECTED CRUSHED MATERIAL

NOTES

* SEE ALIGNMENT DETAILS FOR SUPERELEVATION TRANSITIONS

** SEE PLAN DETAILS AND ALIGNMENT DETAILS FOR OVERTRACKING PAD LOCATIONS

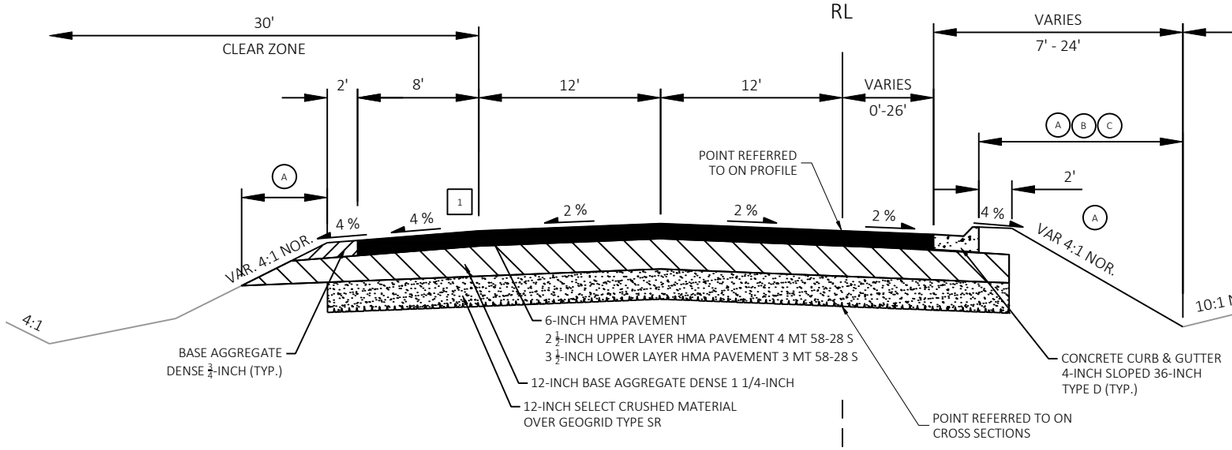
*** SEE PLAN DETAILS FOR CONCRETE CURB & GUTTER TYPE AND LOCATIONS OF REJECT GUTTER

SEE STORM SEWER PLANS FOR PIPE UNDERDRAIN LOCATIONS

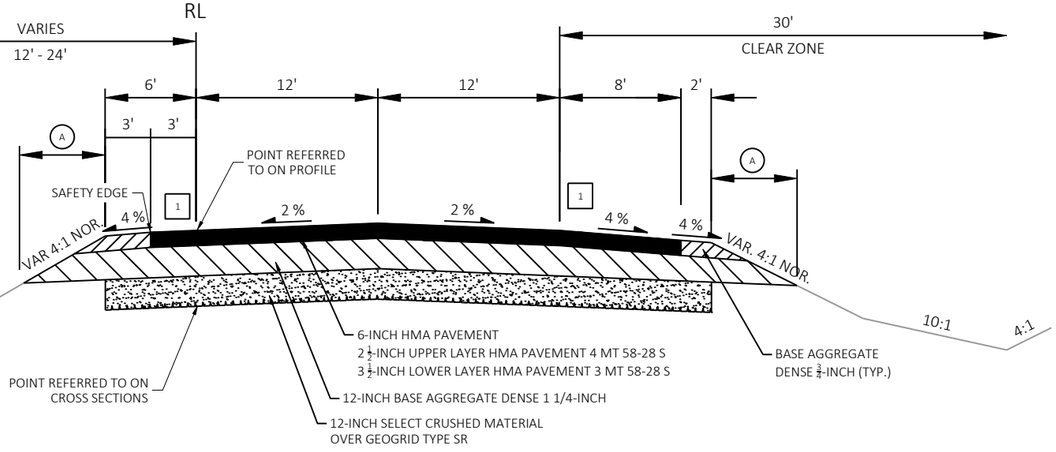
FRENCH DRAINS REQUIRED ON RURAL SECTIONS. SEE CONSTRUCTION DETAIL

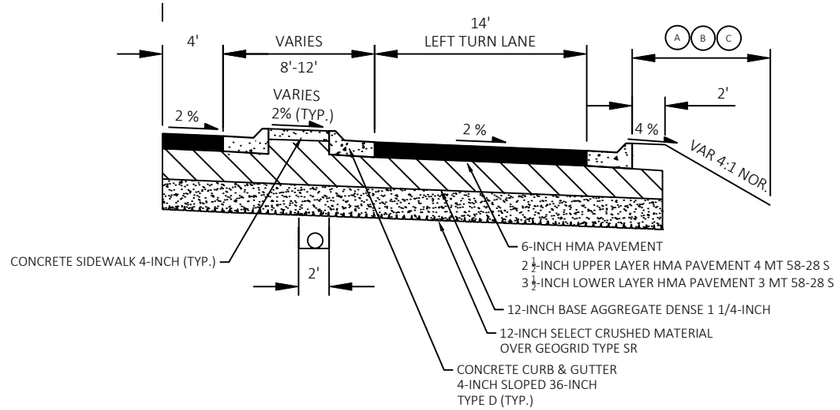
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	FINISHED TYPICAL SECTIONS	SHEET 17	E

NB STH 113
RL



SB STH 113
RL





STA 86+58'SB' TO 87+09'SB'

FINISHED TYPICAL SECTION

STA 86+59 - 90+31 'SB'

FINISHED TYPICAL SECTION

STA 86+36 - 90+10 'NB'

LEGEND

- (A) SEED MIXTURE #30 WITH TEMPORARY SEEDING & FERTILIZER TYPE B. SEED MIXTURE #40 & FERTILIZER TYPE B FOR CENTRAL ISLAND
- (B) 4" SALVAGED TOPSOIL
- (C) MULCHING OR EROSION MAT (SEE EROSION CONTROL PLANS FOR EROSION MAT TYPE)
- [1] ASPHALTIC SHOULDER RUMBLE STRIPS
- [2] ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- [3] ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL

- CONCRETE
- HMA PAVEMENT
- BASE AGGREGATE DENSE 3/4-INCH
- BASE AGGREGATE DENSE 1 1/4-INCH
- SELECTED CRUSHED MATERIAL

NOTES

* SEE ALIGNMENT DETAILS FOR SUPERELEVATION TRANSITIONS

** SEE PLAN DETAILS AND ALIGNMENT DETAILS FOR OVERTRACKING PAD LOCATIONS

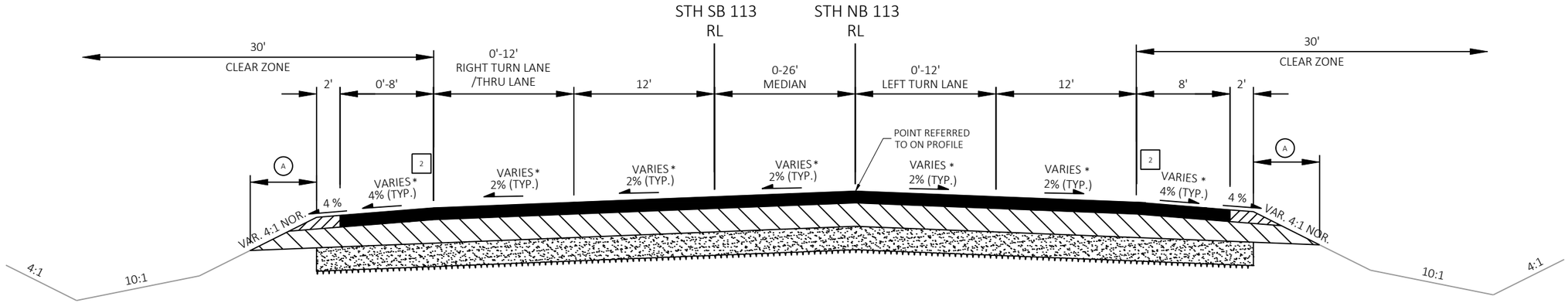
*** SEE PLAN DETAILS FOR CONCRETE CURB & GUTTER TYPE AND LOCATIONS OF REJECT GUTTER

SEE STORM SEWER PLANS FOR PIPE UNDERDRAIN LOCATIONS

FRENCH DRAINS REQUIRED ON RURAL SECTIONS. SEE CONSTRUCTION DETAIL

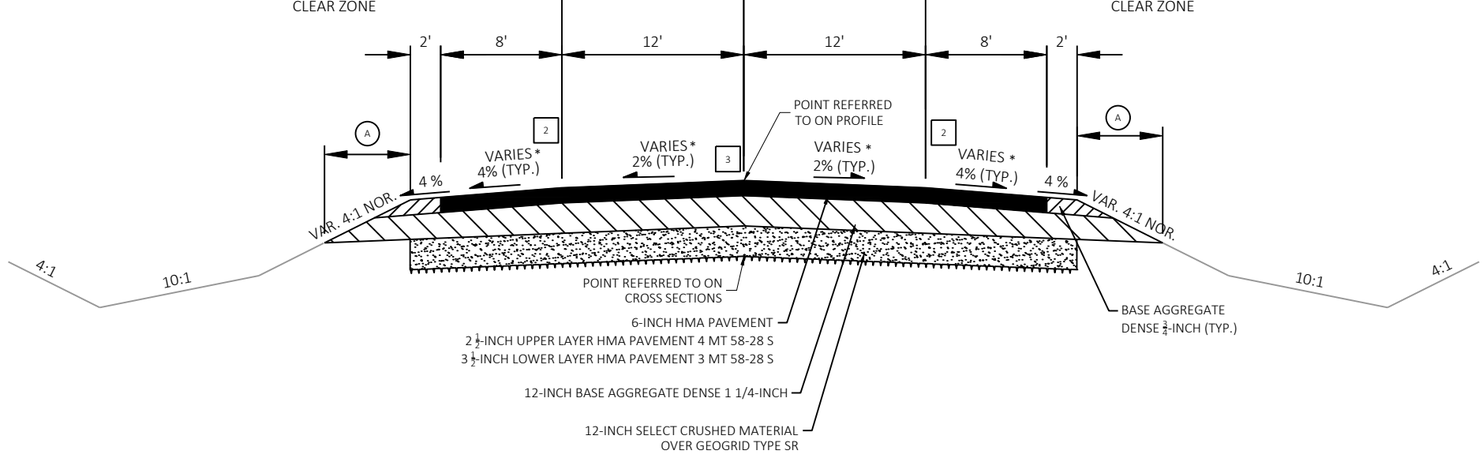
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	FINISHED TYPICAL SECTIONS	SHEET 18	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020315-ts
PLOT DATE : 10/31/2022 8:44 AM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



FINISHED TYPICAL SECTION

STA 94+90'NB' - 102+52 'NB'



FINISHED TYPICAL SECTION

STA 102+52'NB' - 181+77 'TWL'

LEGEND

- (A) SEED MIXTURE #30 WITH TEMPORARY SEEDING & FERTILIZER TYPE B. SEED MIXTURE #40 & FERTILIZER TYPE B FOR CENTRAL ISLAND
- (B) 4" SALVAGED TOPSOIL
- (C) MULCHING OR EROSION MAT (SEE EROSION CONTROL PLANS FOR EROSION MAT TYPE)
- [1] ASPHALTIC SHOULDER RUMBLE STRIPS
- [2] ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- [3] ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL

- CONCRETE
- HMA PAVEMENT
- BASE AGGREGATE DENSE 3/4-INCH
- BASE AGGREGATE DENSE 1 1/4-INCH
- SELECTED CRUSHED MATERIAL

NOTES

* SEE ALIGNMENT DETAILS FOR SUPERELEVATION TRANSITIONS

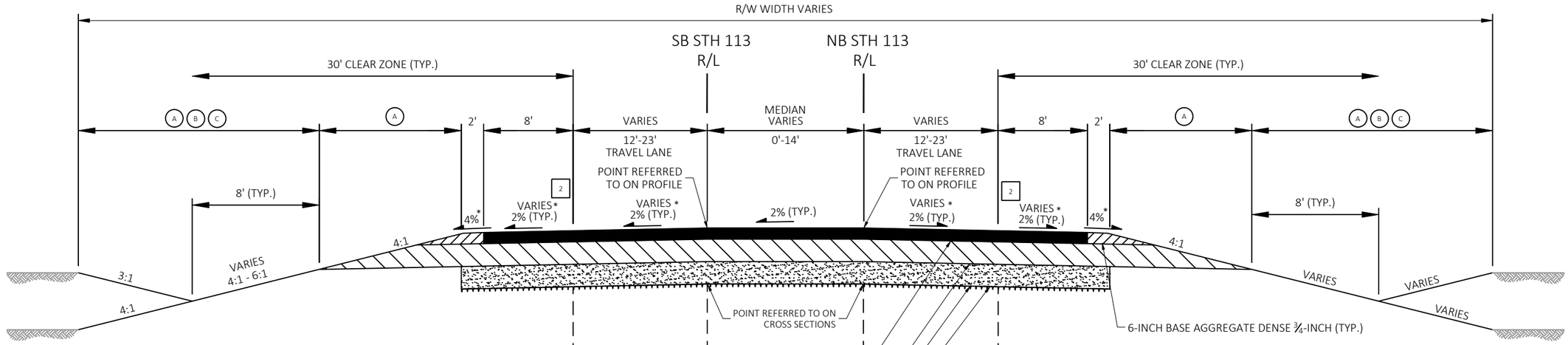
** SEE PLAN DETAILS AND ALIGNMENT DETAILS FOR OVERTRACKING PAD LOCATIONS

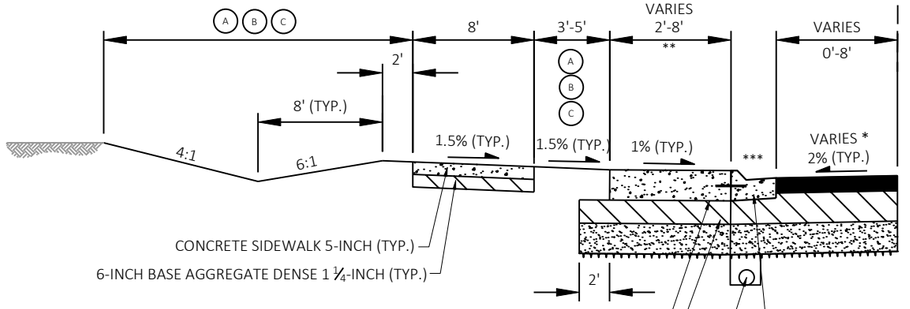
*** SEE PLAN DETAILS FOR CONCRETE CURB & GUTTER TYPE AND LOCATIONS OF REJECT GUTTER

SEE STORM SEWER PLANS FOR PIPE UNDERDRAIN LOCATIONS

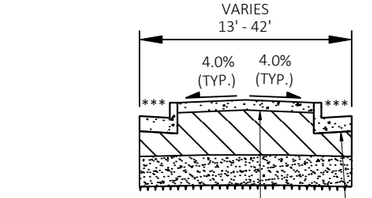
FRENCH DRAINS REQUIRED ON RURAL SECTIONS. SEE CONSTRUCTION DETAIL

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	FINISHED TYPICAL SECTIONS	SHEET 19	E



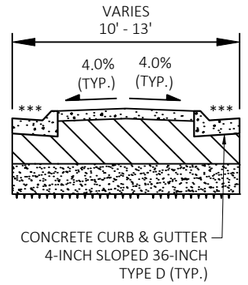


STA 408+07'RSB' TO 409+50'RSB'
STA 410+95'RSB' TO 412+62'RSB'



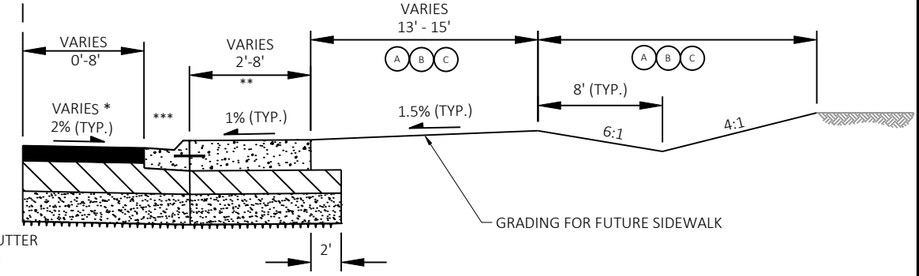
STA 407+71'RNB' TO 409+45'RNB'
STA 410+89'RNB' TO 412+68'RNB'

STA 407+70'RSB' TO 409+50'RSB'
STA 410+95'RSB' TO 412+69'RSB'



STA 405+28'RNB' TO 407+71'RNB'
STA 412+68'RNB' TO 415+09'RNB'

STA 405+28'RSB' TO 407+70'RSB'
STA 412+69'RSB' TO 415+12'RSB'



STA 407+78'RNB' TO 409+45'RNB'
STA 410+89'RNB' TO 412+19'RNB'

LEGEND

- (A) SEED MIXTURE #30 WITH TEMPORARY SEEDING & FERTILIZER TYPE B. SEED MIXTURE #40 & FERTILIZER TYPE B FOR CENTRAL ISLAND
- (B) 4" SALVAGED TOPSOIL
- (C) MULCHING OR EROSION MAT (SEE EROSION CONTROL PLANS FOR EROSION MAT TYPE)
- [1] ASPHALTIC SHOULDER RUMBLE STRIPS
- [2] ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- [3] ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL

- CONCRETE
- HMA PAVEMENT
- BASE AGGREGATE DENSE 3/4-INCH
- BASE AGGREGATE DENSE 1 1/4-INCH
- SELECTED CRUSHED MATERIAL

TYPICAL FINISHED SECTION STH 113

STA 400+00'RNB' TO 409+45'RNB'
STA 410+89'RNB' TO 420+11'RNB'

STA 400+00'RSB' TO 409+50'RSB'
STA 410+95'RSB' TO 420+14'RSB'

NOTES

* SEE ALIGNMENT DETAILS FOR SUPERELEVATION TRANSITIONS

** SEE PLAN DETAILS AND ALIGNMENT DETAILS FOR OVERTRACKING PAD LOCATIONS

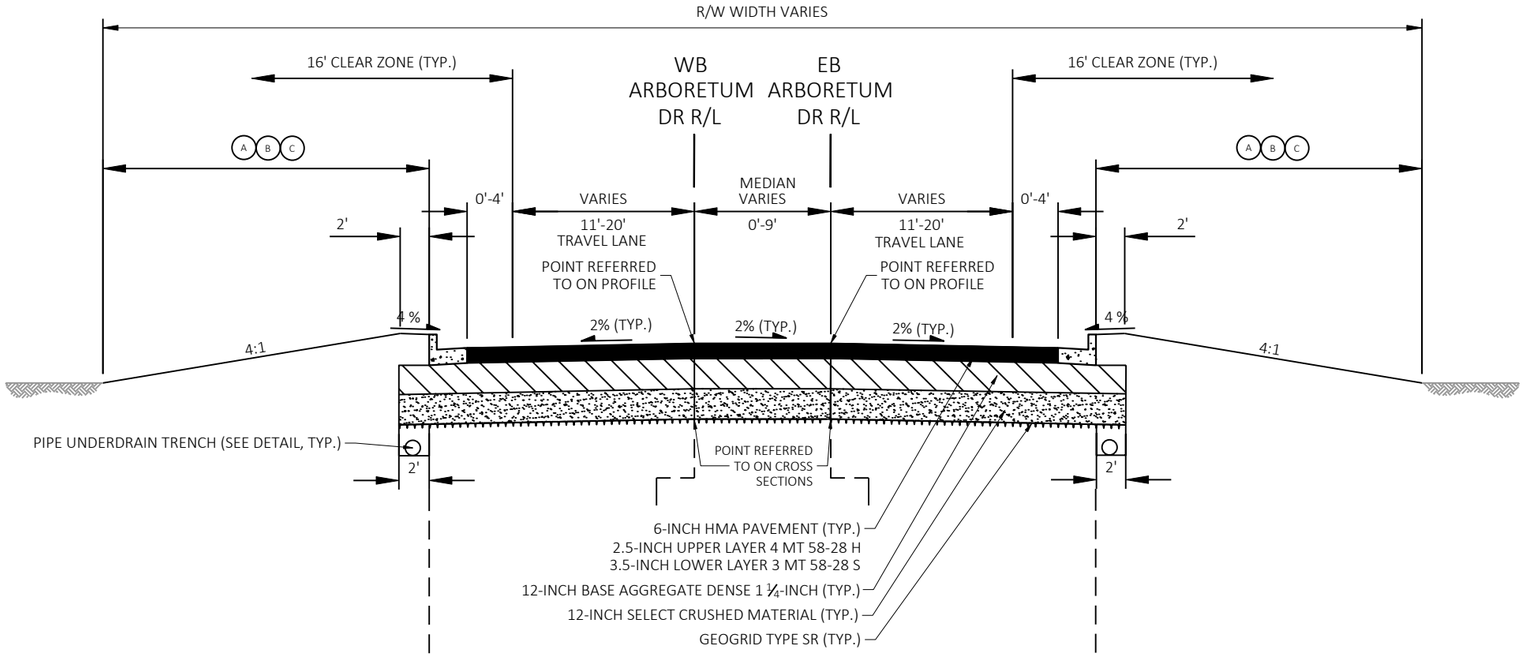
*** SEE PLAN DETAILS FOR CONCRETE CURB & GUTTER TYPE AND LOCATIONS OF REJECT GUTTER

SEE STORM SEWER PLANS FOR PIPE UNDERDRAIN LOCATIONS

FRENCH DRAINS REQUIRED ON RURAL SECTIONS. SEE CONSTRUCTION DETAIL

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	FINISHED TYPICAL SECTIONS	SHEET 20	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020317-ts
PLOT DATE : 10/31/2022 8:44 AM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



STA 201+25'WB' TO 202+18'WB'

STA 201+35'EB' TO 202+06'EB'

STA 201+35'WB' TO 202+18'WB'

STA 200+00'EB' TO 202+06'EB'

LEGEND

- (A) SEED MIXTURE #30 WITH TEMPORARY SEEDING & FERTILIZER TYPE B. SEED MIXTURE #40 & FERTILIZER TYPE B FOR CENTRAL ISLAND
- (B) 4" SALVAGED TOPSOIL
- (C) MULCHING OR EROSION MAT (SEE EROSION CONTROL PLANS FOR EROSION MAT TYPE)
- [1] ASPHALTIC SHOULDER RUMBLE STRIPS
- [2] ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- [3] ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL

- CONCRETE
- HMA PAVEMENT
- BASE AGGREGATE DENSE 3/4-INCH
- BASE AGGREGATE DENSE 1 1/4-INCH
- SELECTED CRUSHED MATERIAL

TYPICAL FINISHED SECTION ARBORETUM DR

STA 200+00'AEB' TO 202+06'AEB'

STA 200+00'AWB' TO 202+18'AWB'

NOTES

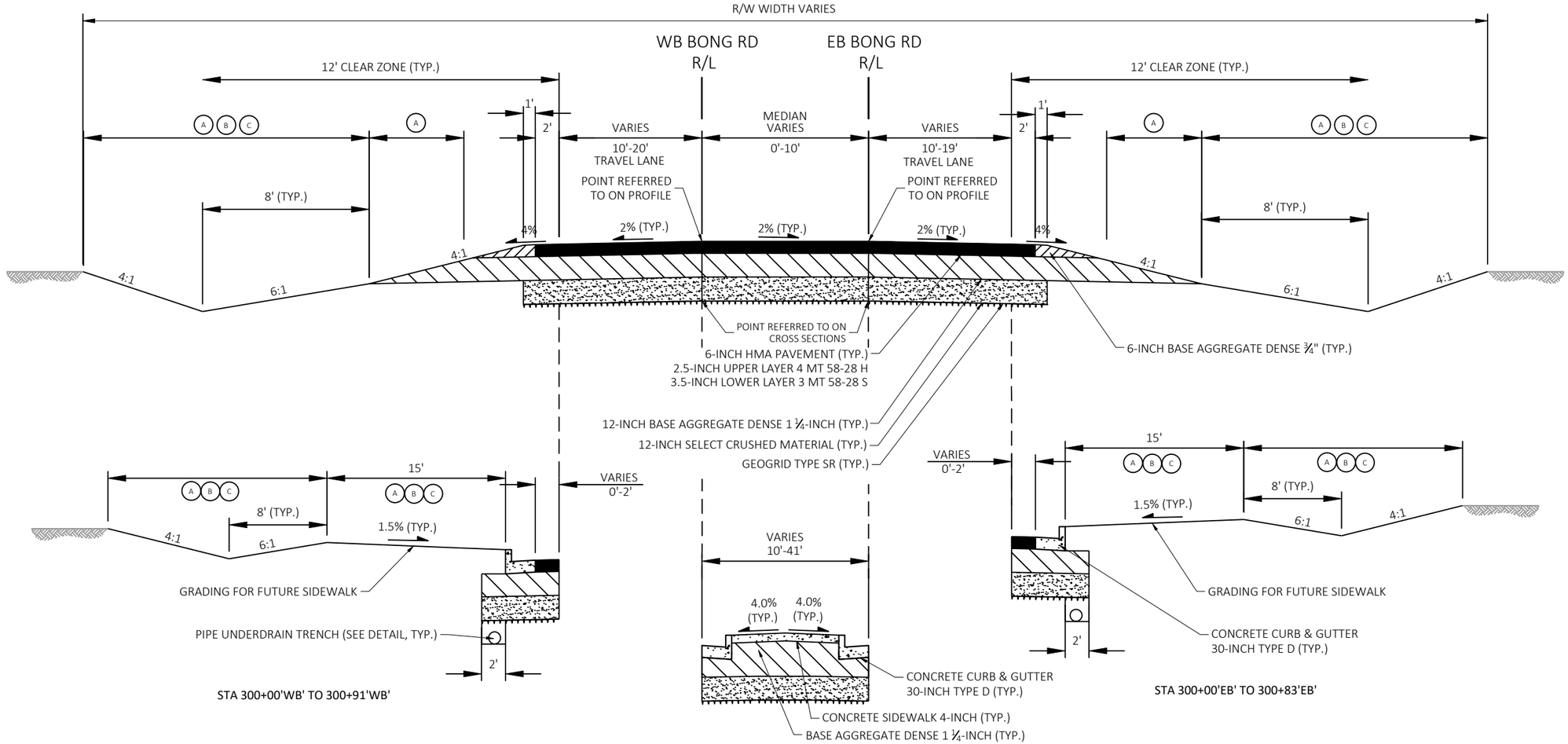
SEE STORM SEWER PLANS FOR PIPE UNDERDRAIN LOCATIONS

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	FINISHED TYPICAL SECTIONS	SHEET 21	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020318-ts

PLOT DATE : 10/31/2022 8:44 AM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42



LEGEND

- (A) SEED MIXTURE #30 WITH TEMPORARY SEEDING & FERTILIZER TYPE B. SEED MIXTURE #40 & FERTILIZER TYPE B FOR CENTRAL ISLAND
- (B) 4" SALVAGED TOPSOIL
- (C) MULCHING OR EROSION MAT (SEE EROSION CONTROL PLANS FOR EROSION MAT TYPE)
- 1 ASPHALTIC SHOULDER RUMBLE STRIPS
- 2 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- 3 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL

- CONCRETE
- HMA PAVEMENT
- BASE AGGREGATE DENSE 3/4-INCH
- BASE AGGREGATE DENSE 1 1/4-INCH
- SELECTED CRUSHED MATERIAL

TYPICAL FINISHED SECTION BONG RD
STA 300+00'BEB' TO 304+80'BEB'

STA 300+00'BWB' TO 304+72'BWB'

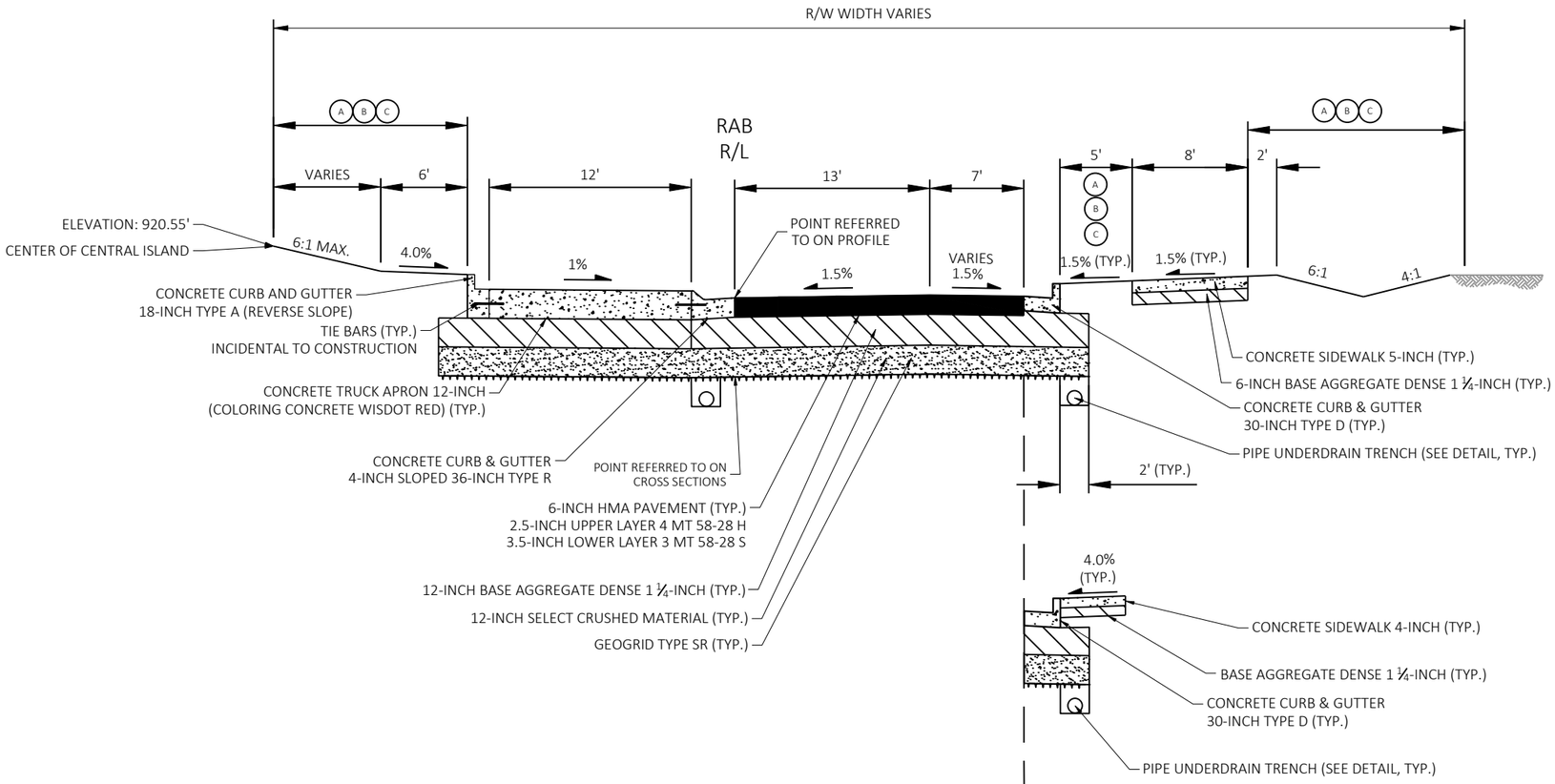
NOTES

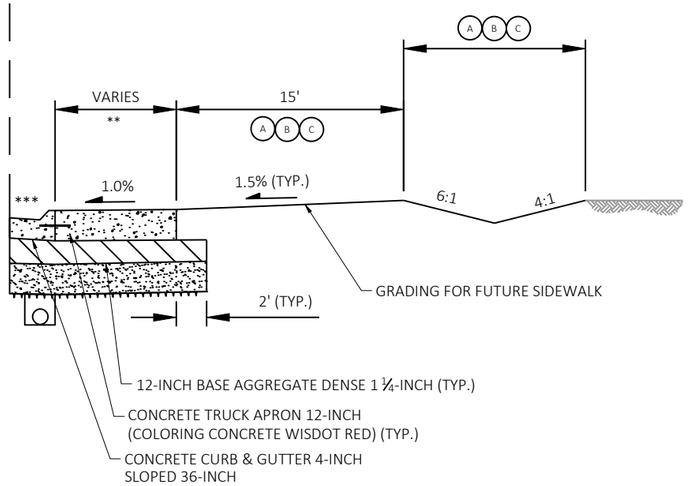
SEE STORM SEWER PLANS FOR PIPE UNDERDRAIN LOCATIONS

FRENCH DRAINS REQUIRED ON RURAL SECTIONS. SEE CONSTRUCTION DETAIL

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	FINISHED TYPICAL SECTIONS	SHEET 22	E

2





LEGEND

- (A) SEED MIXTURE #30 WITH TEMPORARY SEEDING & FERTILIZER TYPE B. SEED MIXTURE #40 & FERTILIZER TYPE B FOR CENTRAL ISLAND
- (B) 4" SALVAGED TOPSOIL
- (C) MULCHING OR EROSION MAT (SEE EROSION CONTROL PLANS FOR EROSION MAT TYPE)
- [1] ASPHALTIC SHOULDER RUMBLE STRIPS
- [2] ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL
- [3] ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
- CONCRETE
- HMA PAVEMENT
- BASE AGGREGATE DENSE 3/4-INCH
- BASE AGGREGATE DENSE 1 1/4-INCH
- SELECTED CRUSHED MATERIAL

NOTES

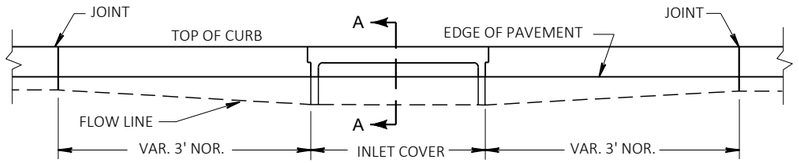
** SEE PLAN DETAILS AND ALIGNMENT DETAILS FOR OVERTRACKING PAD LOCATIONS

*** SEE PLAN DETAILS FOR CONCRETE CURB & GUTTER TYPE

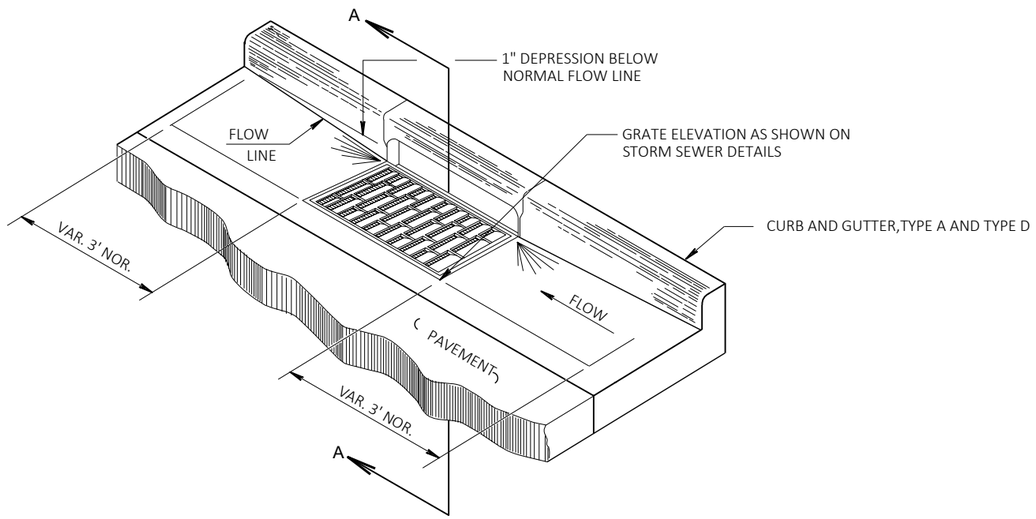
SEE STORM SEWER PLANS FOR PIPE UNDERDRAIN LOCATIONS

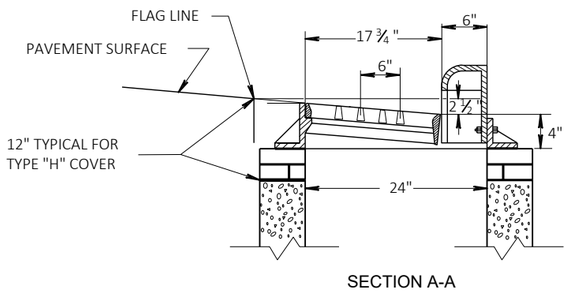
TYPICAL FINISHED SECTION ROUNDABOUT
STA 10+00'RAB' TO 13+45'RAB'

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	FINISHED TYPICAL SECTIONS	SHEET 23	E



ELEVATION

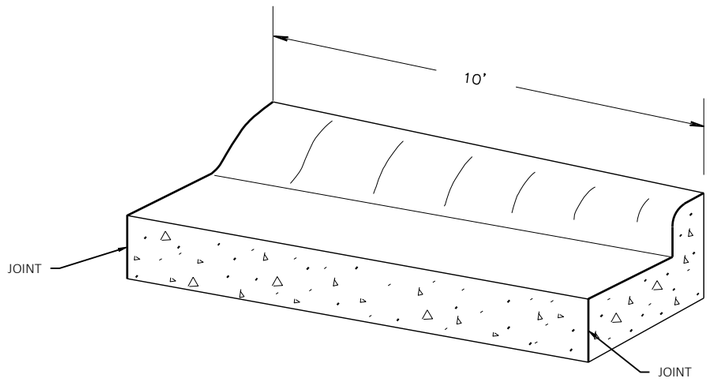




SECTION A-A

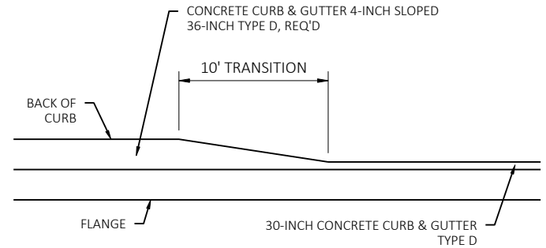
DETAIL OF CURB AND GUTTER AT INLETS

(TYPE 2x3-H INLET SHOWN)



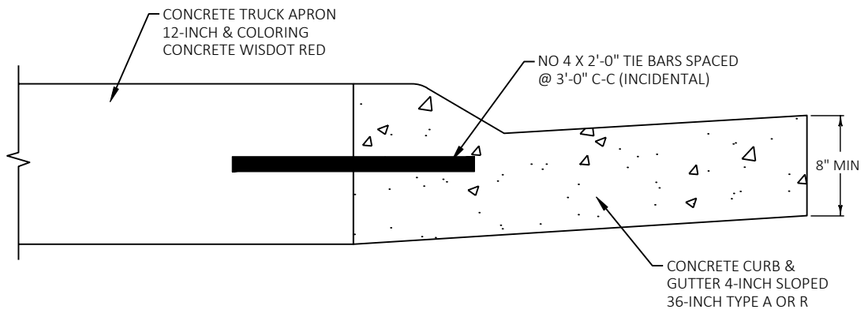
CONCRETE CURB & GUTTER TRANSITION DETAIL

CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D, TO CONCRETE CURB & GUTTER 30-INCH TYPE D (TO BE MEASURED AND PAID FOR AS CONCRETE CURB & GUTTER, 4-INCH SLOPED 36-INCH TYPE D). REFER TO PAVEMENT DETAILS FOR CURB TRANSITION LOCATIONS.

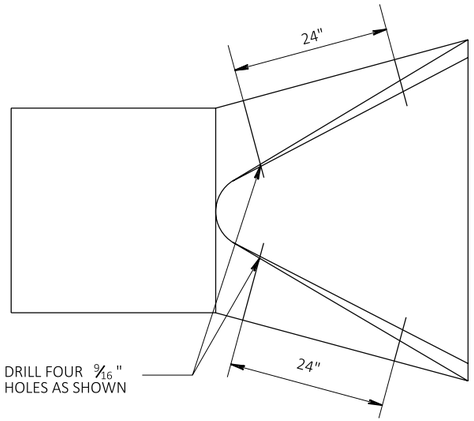


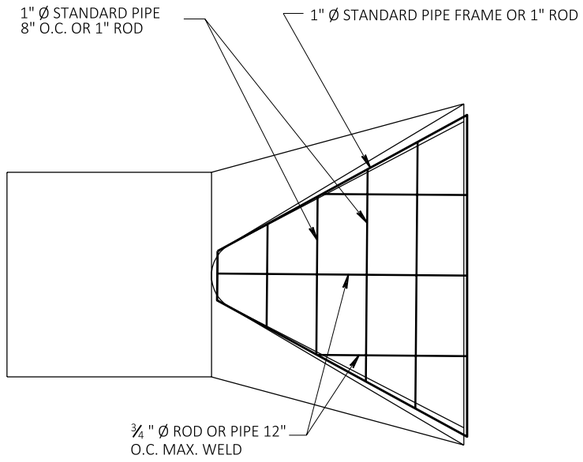
PLAN VIEW

NOTE: PLACE 12" BASE AGGREGATE DENSE 1¼-INCH AND 12" SELECT CRUSHED MATERIAL W/ GEOGRID TYPE SR UNDER CONCRETE TRUCK APRON 12-INCH AND EXTEND TWO-FOOT BEYOND EDGE OF CONCRETE.

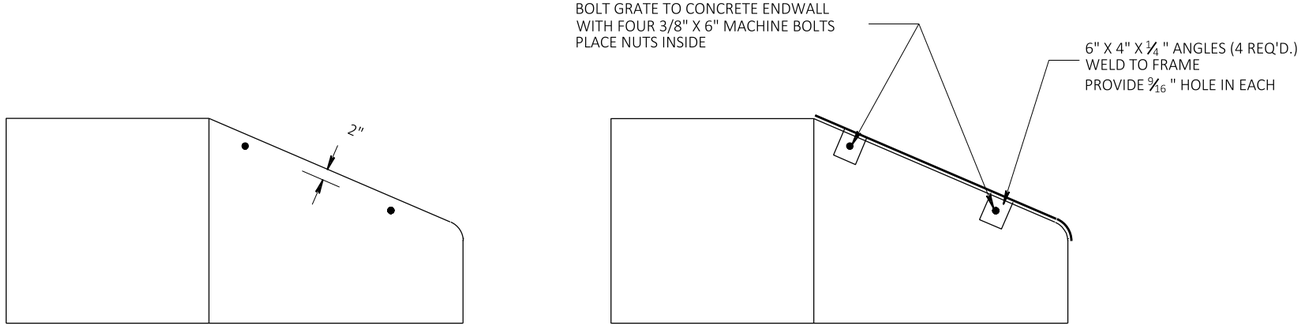


TRUCK OVERTRACKING PAD DETAIL

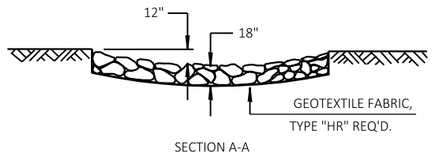




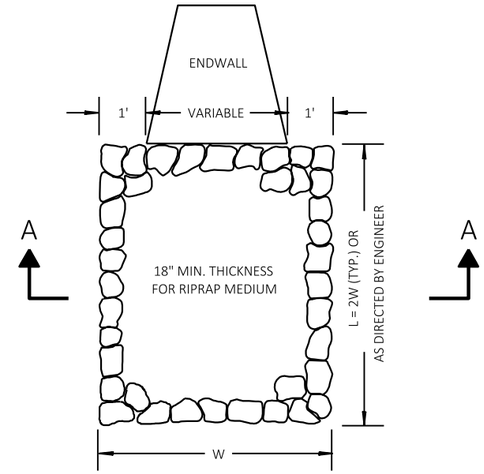
AT EACH PIPE



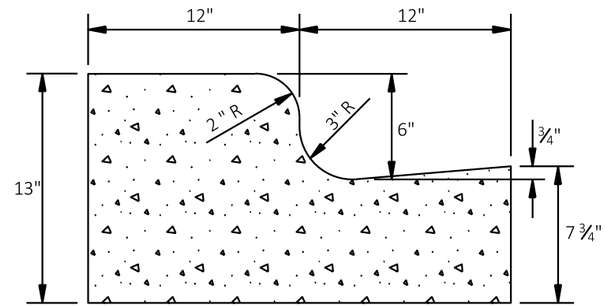
PIPE GRATE DETAIL



SECTION A-A

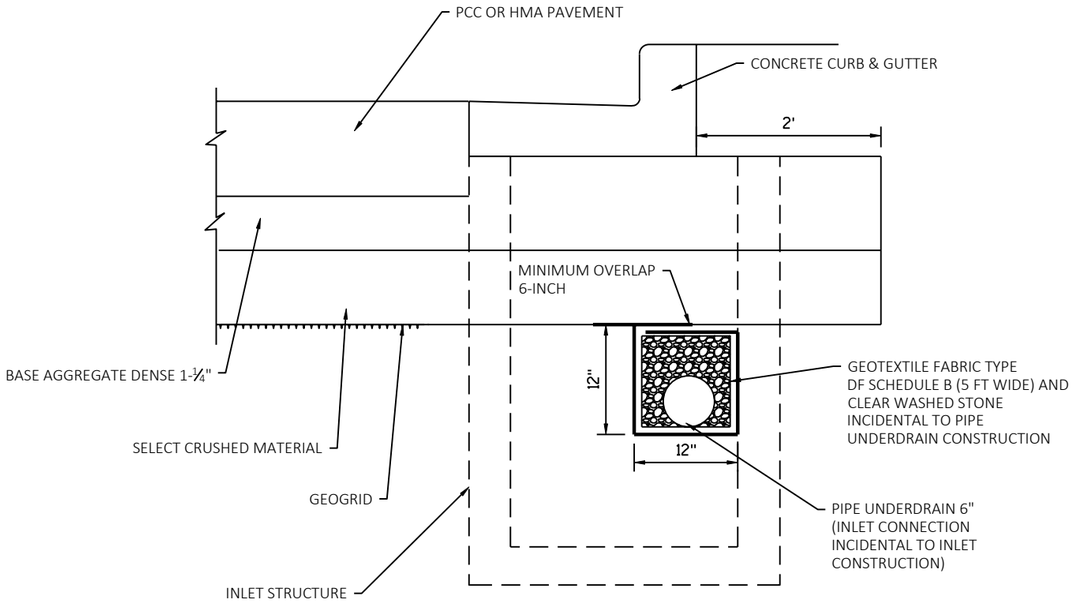


RIPRAP MEDIUM TREATMENT AT CULVERTS



CONCRETE CURB AND GUTTER 24-INCH TYPE D SPECIAL
SCALE: NONE

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET 25	E

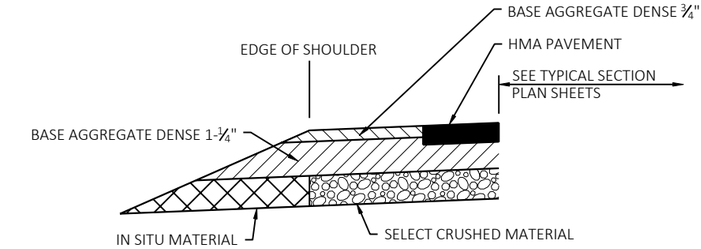


PIPE UNDERDRAINS
AND INLET CONNECTIONS DETAIL

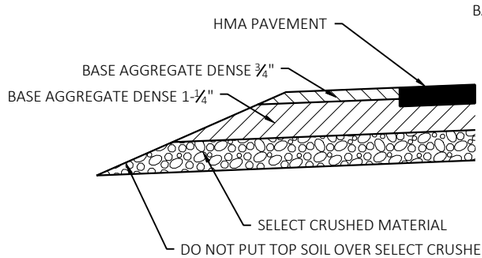
RUNOFF COEFFICIENT TABLE

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

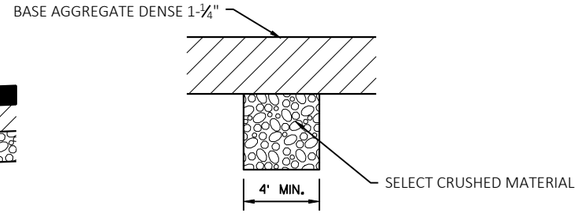
TOTAL PROJECT AREA = 123.5 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 43.5 ACRES



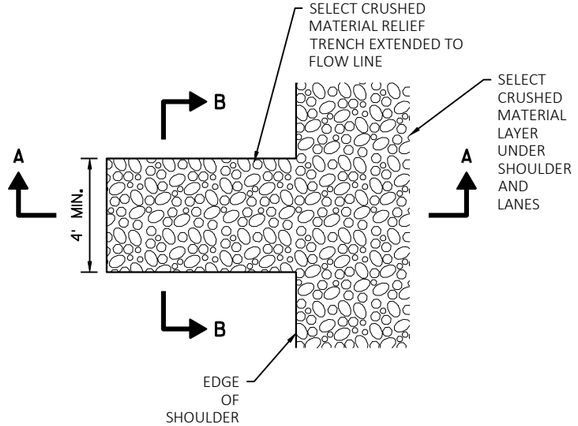
TYPICAL HALF SECTION WITH SELECT MATERIALS



SECTION A-A



SECTION B-B

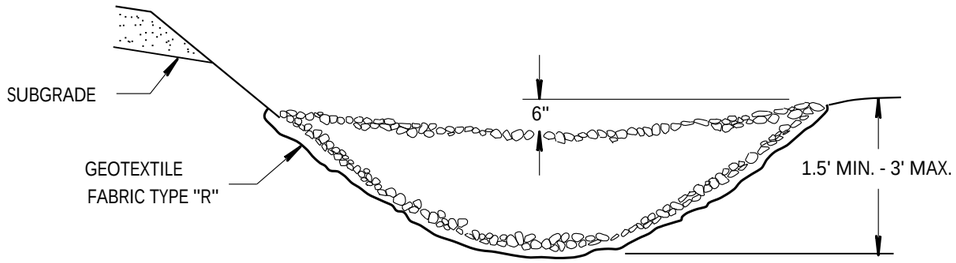


FRENCH DRAINS DETAIL

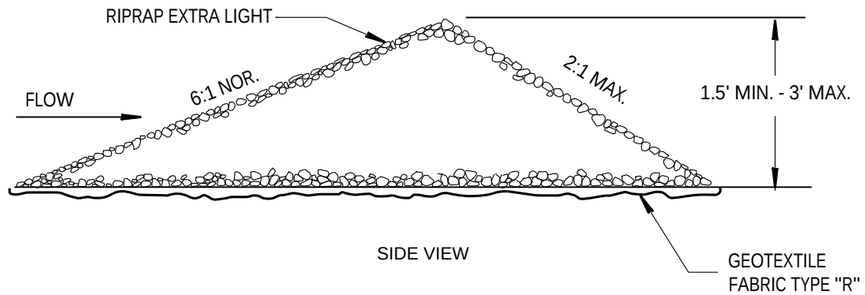
DRAINS ARE TO BE CONSTRUCTED AT LEAST EVERY 250'
AND AT EACH SAG VERTICAL CURVE IN THE PROFILE.

LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

EXCAVATION REQUIRED TO CONSTRUCT FRENCH DRAINS SHALL
BE CONSIDERED INCIDENTAL TO THE BID ITEM SELECT CRUSHED MATERIAL.

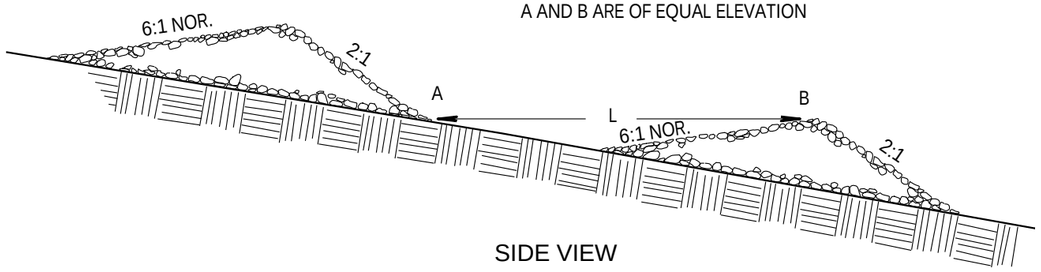


CROSS SECTIONAL VIEW



SIDE VIEW

L = THE DISTANCE SUCH THAT POINTS
A AND B ARE OF EQUAL ELEVATION



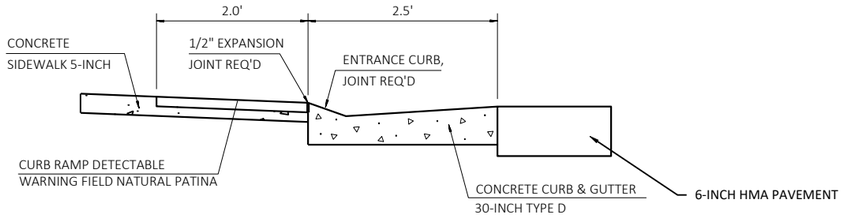
SIDE VIEW

TEMPORARY STONE DITCH CHECK

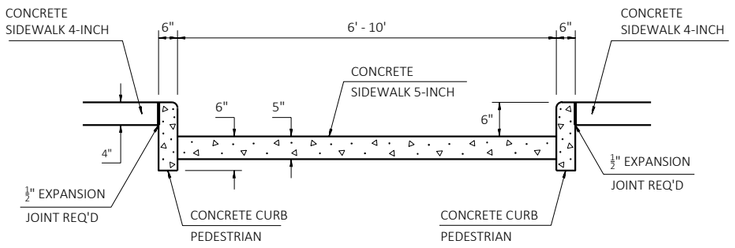
STH 113, Dane Co								
Log-mile begins at Knudson Dr								
Boring	**Log Mile**	**Approx. STA.**	**Offset (ft) From C/L**	**Type**	**HMA Inches**	**PCC Inches**	**Base**	**Subgrade (Blow Counts)**
1	150-ft	11+00'NB'	30R	SPT[1]	7.0	7.0	12.0	2-ft granular fill over weather sandstone (N=14, 58/4")
2	0.10	16+28'NB'	2L	SPT	5.0	8.5	20.0	1.5-ft granular fill over weather sandstone (N=23, 50, 50/4", refusal)
3	0.20	21+56'NB'	4R	A[2]	9.0	14.0	13.3	1-ft fine Sand over silty sand
4	0.25	24+20'NB'	24L	SPT	8.5	0.0	9.5	1.3-ft granular fill over sand (N=18, 18, 15, 9)
5	0.40	32+21'NB'	12R	A	8.5	0.0	12.0	15.5" granular fill over f sand, some silt
6	0.60	42+68'NB'	4L	A	10.5	0.0	11.0	3.2-ft granular fill
7	0.83	54+82'NB'	20R	A	16.5	0.0	16.0	2.3-ft granular fill
8	1.00	63+80'NB'	24L	A	6.8	0.0	7.5	10" silty sand fill over 1.5-ft fine-med sand
9	1.20	74+36'NB'	4R	SPT	6.5	0.0	11.5	5-ft silty sand fill over wet fine-med sand (N=17, 21, 21, 7)
10	1.40	84+92'NB'	20L	A	5.8	8.8	7.0	1.2-ft sand fill over 1-ft lean clay fill
11	1.65	98+12'NB'	6R	SPT	5.5	0.0	9.0	1.5-ft granular fill over 5.5-ft wet silty sand over wet weathered sandstone
12	1.84	108+35'TWL'	12L	A	4[4]	9.0	6.0	11" granular fill over 1-ft clay over silty sand
13	2.00	116+80'TWL'	9R	A	4.5	10.0	7.0	3.2-ft silty/clayey sand
14	2.00	116+80'TWL'	9L	A	5.5	8.5	7.5	1-ft granular fill over sand
15	2.20	127+36'TWL'	6R	A	5.5	8.5	7.5	3-ft granular fill
16	2.40	137+92'TWL'	6L	A	4.8	9.8	5.0	3.4-ft granular fill
17	2.60	406+51'RNB'	9R	A	5.0	9.0	5.0	0.5-fy granular fill over 2-ft. sand, some silt
18	2.80	417+14'RNB'	9L	SPT	7.5	7.0	0.0	1-ft sand fill over 1-ft silty sand fill over 1-ft sandy dry (N=14, 9, 19, 22)
19	2.95	166+96'TWL'	12R	A	4.0	0.0	10.0	2.8-ft sand fill over 1-ft lean clay
20	3.02	170+66'TWL'	12L	A	6.5	0.0	9.0	1.5-ft granular fill over sandy lean clay
21	3.15	177+52'TWL'	6R	A	5.0	8.5	7.0	1.5-ft granular fill over 1.5-ft sandy lean clay

Notes:
1. SPT means a Standard Penetration Test with a split spoon and hammer blows were counted.
2. A means auger boring.
3. Every field log describes all material at all depths DRY, except where noted on B-9 and B-11.
4. This boring and B-19 highlighted in yellow are 4-inches thick.

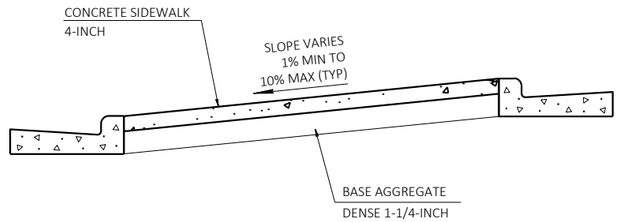
CONTACT PROJECT MANAGER FOR FULL SOILS REPORT IF REQUIRED.



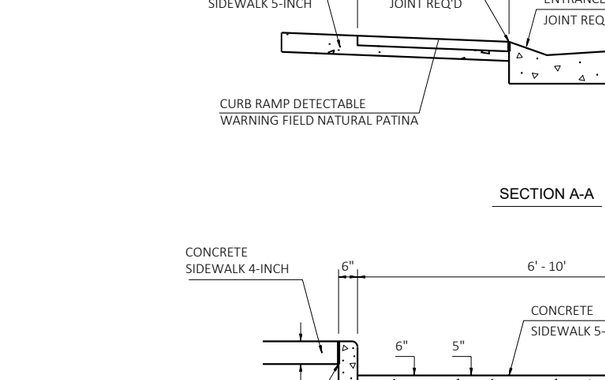
SECTION A-A



SECTION B-B



SECTION C-C

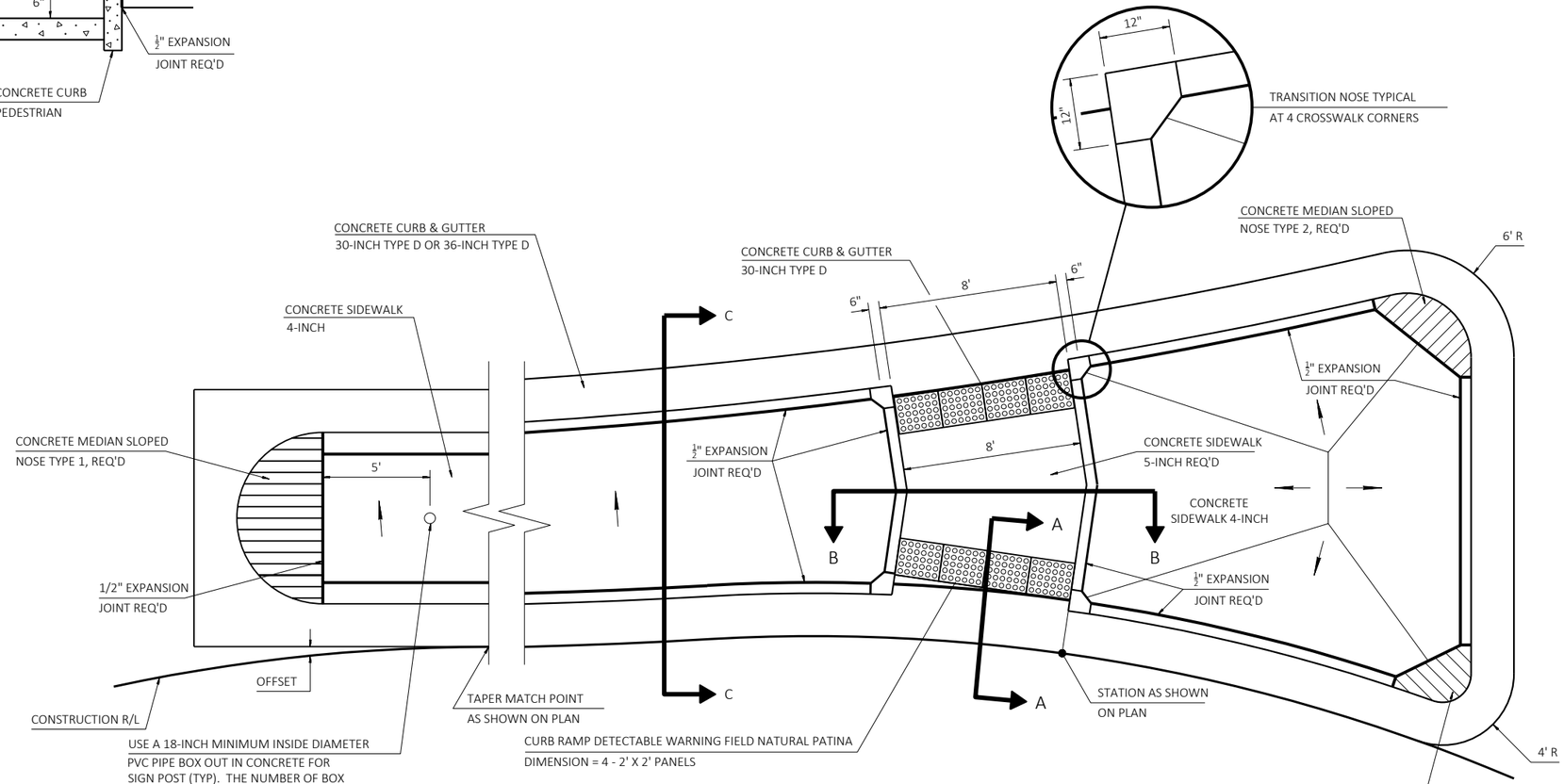


* DISTANCE TO BE LAID OUT IN THE FIELD BASED ON SIGN SIZE. TWO FOOT MINIMUM CLEARANCE BETWEEN THE EDGE OF SIGN AND THE FACE OF CURB.

** SEE A4-4 "TYPICAL INSTALL OF TYPE II SIGNS ON MULTIPLE POSTS" SIGN PLATE DETAIL FOR POST SPACING REQUIREMENTS.

USE A 18-INCH MINIMUM INSIDE DIAMETER PVC PIPE BOX OUT IN CONCRETE FOR SIGN POST (TYP). THE NUMBER OF BOX OUTS REQUIRED VARIES BY WIDTH OF THE SIGN AND SHALL BE VERIFIED BEFORE PLACING THE CONCRETE IN THE ISLAND.

ISLAND SIGN LOCATION DETAIL (TYP)



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

DRAINAGE BREAK POINT

DIRECTION OF DRAINAGE

SPLITTER ISLAND DETAIL

2

2

N

MGS GUARDRAIL 3
(STA. 49+10.55 - 49+23.05 LT)

CONCRETE SURFACE DRAINS

CONCRETE CURB AND GUTTER TYPE TBT 4-INCH SLOPED 36-INCH

ATT (FO)

ATT (COMM)

MGS GUARDRAIL TERMINAL EAT
POST 1 STA. 48+57.46 LT
POST 5 STA. 48+82.44 LT
POST 9 STA. 49+07.43 LT

MGE (OH)

MGS THRIE BEAM TRANSITION

SLOPE INTERCEPTS (TYP.)

MGE (GAS)

MGS GUARDRAIL TERMINAL EAT
POST 1 STA. 53+32.77 LT
POST 5 STA. 53+08.19 LT
POST 9 STA. 52+83.59 LT

MGS GUARDRAIL 3
(STA. 49+10.55 - 49+23.05 RT)

ATT (FO)

MGS GUARDRAIL 3
(STA. 51+05.51 - 52+80.51 LT)

EVERSTREAM (FO, APPROX.)

ATT (FO)

MGS GUARDRAIL TERMINAL EAT
POST 1 STA. 53+34.90 RT
POST 5 STA. 53+09.83 RT
POST 9 STA. 52+84.78 RT

MGS GUARDRAIL TERMINAL EAT
POST 1 STA. 48+57.46 RT
POST 5 STA. 48+82.44 RT
POST 9 STA. 49+07.43 RT

STRUCTURE B-13-556

MGS GUARDRAIL 3
(STA. 51+06.31 - 52+81.65 RT)

10:1 TAPER

10:1 TAPER

10:1 TAPER

10:1 TAPER

EXISTING CONCRETE
APPROACH SLABS TO REMAIN
REMOVING CURB & GUTTER

10:1 TAPER

10:1 TAPER

MGS GUARDRAIL TERMINAL EAT
POST 1 STA. 47+04.85 LT
POST 5 STA. 47+29.83 LT
POST 9 STA. 47+54.81 LT

MGS GUARDRAIL 3
(STA. 47+57.93 - 49+20.43 LT)

MGS GUARDRAIL 3
(STA. 48+33.48 - 49+20.98 RT)

MGS GUARDRAIL TERMINAL EAT
POST 1 STA. 47+80.39 RT
POST 5 STA. 48+05.37 RT
POST 9 STA. 48+30.35 RT

STRUCTURE B-13-233
SEE STRUCTURE PLANS

MGS GUARDRAIL TERMINAL EAT
POST 1 STA. 51+71.84 LT
POST 5 STA. 51+46.86 LT
POST 9 STA. 51+21.88 LT

MGS GUARDRAIL 3
(STA. 51+06.26 - 51+18.76 LT)

MGS GUARDRAIL TERMINAL EAT
POST 1 STA. 51+71.95 RT
POST 5 STA. 51+46.97 RT
POST 9 STA. 51+21.99 RT

SLOPE INTERCEPTS (TYP.)

MGS THRIE BEAM TRANSITION

CONCRETE CURB AND GUTTER TYPE TBT 4-INCH SLOPED 36-INCH

MGS GUARDRAIL 3
(STA. 51+06.37 - 52+18.87 RT)

MEDIUM RIPRAP (TYP.)

CONCRETE SURFACE DRAINS

LEGEND

CONCRETE PAVEMENT APPROACH SLAB (REINFORCED)

CONCRETE PAVEMENT 8-INCH. POUR TO FACE OF EXISTING CURB, SEE STRUCTURE PLANS.

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CONSTRUCTION DETAILS - GUARDRAIL AND APPROACH SLAB	SHEET 29	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\021002-CD.DWG
LAYOUT NAME - 021006-cd

PLOT DATE : 10/13/2022 12:44 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N

200'AEB'

BEGIN LIMITS
CONSTRUCTION ROUNDABOUT STAKING
STA. 201+35 'AEB' & 201+35 'AWB'

202'AEB'

202'AWB'

402'RSB'

402'RNB'

404'RSB'

404'RNB'

406'RSB'

406'RNB'

408'RSB'

408'RNB'

11'RAB'

13'RAB'

12'RAB'

412'RSB'

412'RNB'

414'RSB'

414'RNB'

416'RSB'

416'RNB'

BEGIN LIMITS
CONSTRUCTION ROUNDABOUT STAKING
STA. 415+09 'RNB' & 415+12 'RSB'

BEGIN LIMITS
CONSTRUCTION ROUNDABOUT STAKING
STA. 405+28 'RNB' & 405+29 'RSB'

302'BEB'

302'BWB'

BEGIN LIMITS
CONSTRUCTION ROUNDABOUT STAKING
STA. 301+91 'BEB' & 301+83 'BWB'

304'BEB'

304'BWB'

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CONSTRUCTION DETAILS - CONSTRUCTION ROUNDABOUT STAKING	SHEET 30	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\021003-CD.DWG
LAYOUT NAME - 021006-cd

PLOT DATE : 11/1/2022 8:30 AM PLOT BY : NATHAN COOK PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

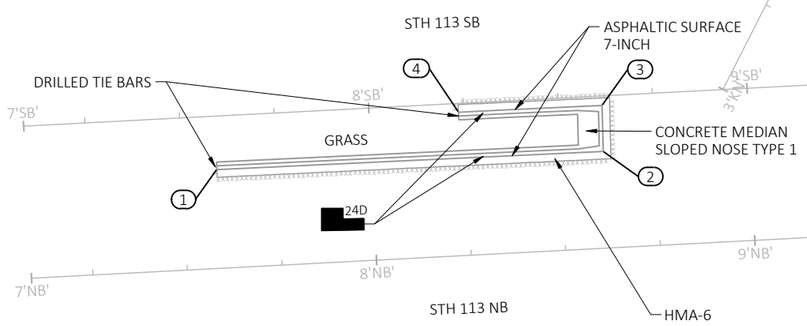
STH 113 AT KNUTSON DR MEDIAN							
POINT NUMBER	DESCRIPTION	STATION	OFFSET	ELEVATION	NORTHING	EASTING	RADIUS
1	PT	7+59.14'NB'	26.04' LT	918.46	507230.71	819073.27	-
2	PT	8+61.22'NB'	25.52' LT	919.61	507310.90	819010.10	-
3	PT	8+61.57'SB'	2.57' RT	919.65	507303.63	819000.41	-
4	PT	8+23.60'SB'	2.33' RT	919.48	507273.77	819023.87	-

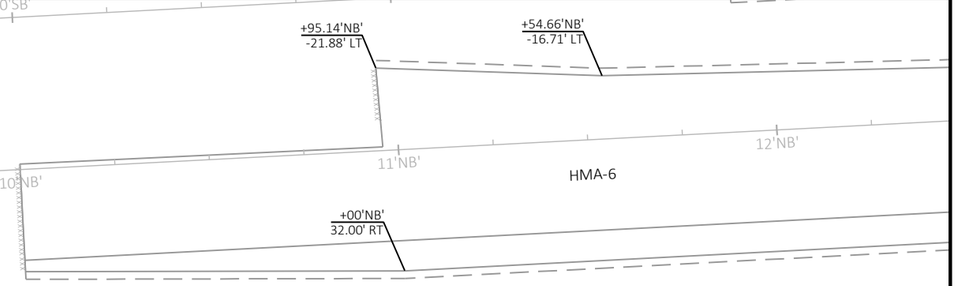
PAVEMENT DETAILS LEGEND

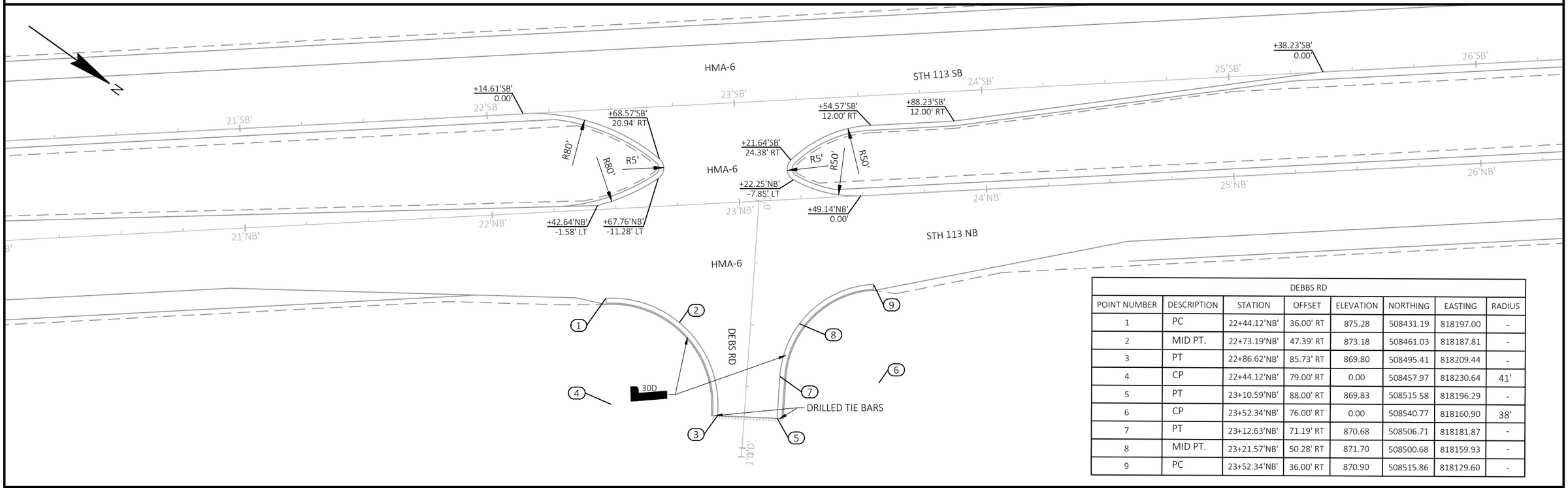
CTAR-12	CONCRETE TRUCK APRON 12-INCH WITH COLORING CONCRETE WISDOT RED
CTA-12	CONCRETE TRUCK APRON 12-INCH
CS-4	CONCRETE SIDEWALK 4-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CD-6	CONCRETE DRIVEWAY 6-INCH
HMA-6	HMA PAVEMENT 6-INCH
AS	ASPHALTIC SURFACE 3-INCH
AS-3	ASPHALTIC SURFACE FIELD ENTRANCES AND DRIVEWAYS 3-INCH
BAD	BASE AGGREGATE DENSE DRIVEWAY 6-INCH
CMSN-1	CONCRETE MEDIAN SLOPE NOSE TYPE 1
CMSN-2	CONCRETE MEDIAN SLOPE NOSE TYPE 2
CCM	CONCRETE CORRUGATED MEDIAN
CCP	CONCRETE CURB PEDESTRIAN
AF	ASPHALTIC FLUME
CR-X	CURB RAMP TYPE X

PROPOSED INLET
PROPOSED MANHOLE
10' CURB TRANSITION
CONCRETE CURB & GUTTER TYPE X, XX-INCH
CONCRETE CURB TYPE X
REJECT GUTTER LIMITS

NOTES
1. ALL RADIUS DIMENSIONS ARE TO FACE OF CURB & GUTTER.
2. DIMENSIONS AND DATA POINT OFFSETS SHOWN ARE TO FLANGE LINE OR LANE LINE.
3. SEE ALIGNMENT DETAIL SHEETS FOR CURB AND GUTTER ALIGNMENTS.
4. CURB RAMP DETECTABLE WARNING FIELDS ARE NATURAL PATINA. SEE CURB RAMP DETAILS FOR CURB RAMP LAYOUTS.







DEBBS RD							
POINT NUMBER	DESCRIPTION	STATION	OFFSET	ELEVATION	NORTHING	EASTING	RADIUS
1	PC	22+44.12'NB'	36.00' RT	875.28	508431.19	818197.00	-
2	MID PT.	22+73.19'NB'	47.39' RT	873.18	508461.03	818187.81	-
3	PT	22+86.62'NB'	85.73' RT	869.80	508495.41	818209.44	-
4	CP	22+44.12'NB'	79.00' RT	0.00	508457.97	818230.64	41'
5	PT	23+10.59'NB'	88.00' RT	869.83	508515.58	818196.29	-
6	CP	23+52.34'NB'	76.00' RT	0.00	508540.77	818160.90	38'
7	PT	23+12.63'NB'	71.19' RT	870.68	508506.71	818181.87	-
8	MID PT.	23+21.57'NB'	50.28' RT	871.70	508500.68	818159.93	-
9	PC	23+52.34'NB'	36.00' RT	870.90	508515.86	818129.60	-

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PAVEMENT DETAILS	SHEET 31	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\021201-PD.DWG
LAYOUT NAME - 021201-pd
PLOT DATE : 10/31/2022 12:44 PM PLOT BY : NATHAN COOK PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

PAVEMENT DETAILS LEGEND

CTAR-12	CONCRETE TRUCK APRON 12-INCH WITH COLORING CONCRETE WISDOT RED
CTA-12	CONCRETE TRUCK APRON 12-INCH
CS-4	CONCRETE SIDEWALK 4-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CD-6	CONCRETE DRIVEWAY 6-INCH
HMA-6	HMA PAVEMENT 6-INCH
AS	ASPHALTIC SURFACE 3-INCH
AS-3	ASPHALTIC SURFACE FIELD ENTRANCES AND DRIVEWAYS 3-INCH
BAD	BASE AGGREGATE DENSE DRIVEWAY 6-INCH
CMSN-1	CONCRETE MEDIAN SLOPE NOSE TYPE 1
CMSN-2	CONCRETE MEDIAN SLOPE NOSE TYPE 2
CCM	CONCRETE CORRUGATED MEDIAN
CCP	CONCRETE CURB PEDESTRIAN
AF	ASPHALTIC FLUME
CR-X	CURB RAMP TYPE X

PROPOSED INLET

PROPOSED MANHOLE

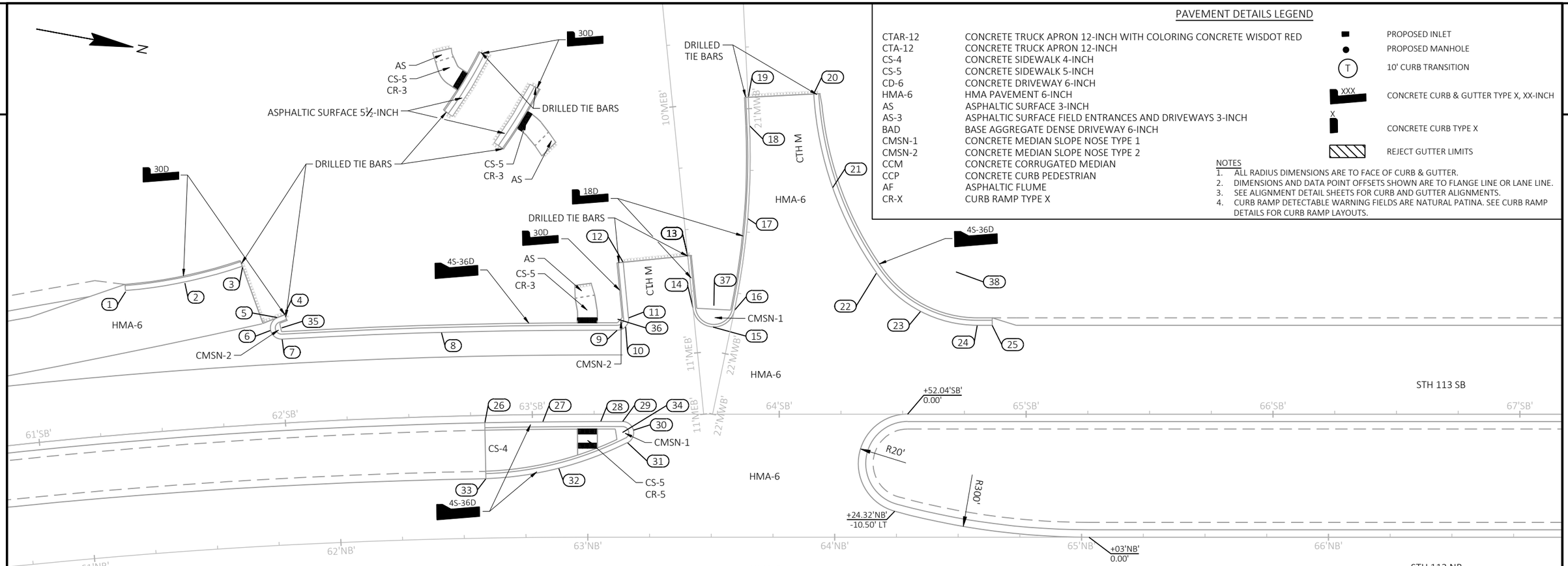
10' CURB TRANSITION

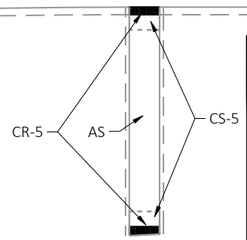
CONCRETE CURB & GUTTER TYPE X, XX-INCH

CONCRETE CURB TYPE X

REJECT GUTTER LIMITS

NOTES
1. ALL RADIUS DIMENSIONS ARE TO FACE OF CURB & GUTTER.
2. DIMENSIONS AND DATA POINT OFFSETS SHOWN ARE TO FLANGE LINE OR LANE LINE.
3. SEE ALIGNMENT DETAIL SHEETS FOR CURB AND GUTTER ALIGNMENTS.
4. CURB RAMP DETECTABLE WARNING FIELDS ARE NATURAL PATINA. SEE CURB RAMP DETAILS FOR CURB RAMP LAYOUTS.





CTH M							
POINT NUMBER	DESCRIPTION	STATION	OFFSET	ELEVATION	NORTHING	EASTING	RADIUS
1	PC	61+39.88'SB'	57.67' LT	864.93	511511.66	815815.21	-
2	MID PT.	61+63.43'SB'	59.27' LT	864.75	511534.59	815807.42	-
3	PT	61+86.54'SB'	64.02' LT	864.54	511556.40	815796.92	-
4	PT	62+02.09'SB'	43.79' LT	866.16	511576.71	815812.74	-
5	PC	61+99.13'SB'	42.78' LT	866.21	511574.03	815814.44	-
6	MID PT.	61+96.13'SB'	37.80' LT	866.27	511572.25	815820.00	-
7	PT	62+00.50'SB'	34.00' LT	866.68	511577.47	815822.63	-
8	MID PT.	62+64.11'SB'	34.00' LT	866.78	511640.39	815808.18	-
9	PC	63+34.46'SB'	33.99' LT	866.33	511710.32	815794.27	-
10	MID PT.	63+37.80'SB'	35.46' LT	866.26	511713.33	815792.22	-
11	PT	63+38.95'SB'	38.91' LT	866.17	511713.83	815788.61	-
12	PT	63+36.81'SB'	61.45' LT	865.66	511707.61	815766.84	-
13	PT	63+62.96'SB'	64.08' LT	865.49	511732.84	815759.48	-
14	PC	63+65.09'SB'	42.91' LT	865.93	511738.80	815779.90	-
15	MID PT.	63+73.09'SB'	35.27' LT	866.10	511748.06	815785.95	-
16	PC	63+81.86'SB'	42.01' LT	865.99	511755.46	815777.72	-

CTH M							
POINT NUMBER	DESCRIPTION	STATION	OFFSET	ELEVATION	NORTHING	EASTING	RADIUS
17	MID PT.	63+87.27'SB'	79.17' LT	865.61	511753.98	815740.20	-
18	PT	63+87.99'SB'	116.70' LT	865.24	511747.83	815703.17	-
19	PT	63+87.49'SB'	128.24' LT	865.12	511745.23	815691.92	-
20	PT	64+13.98'SB'	129.60' LT	864.82	511771.03	815685.75	-
21	MID PT.	64+21.64'SB'	91.58' LT	865.14	511785.51	815721.72	-
22	PT	64+39.45'SB'	57.12' LT	865.46	511809.31	815752.35	-
23	MID PT	64+57.28'SB'	41.59' LT	865.66	511829.68	815764.35	-
24	PT	64+80.26'SB'	36.00' LT	865.85	511853.30	815765.65	-
25	PC	64+86.26'SB'	36.00' LT	865.86	511859.19	815764.56	-
26	PC	62+80.73'SB'	3.00' RT	865.48	511664.40	815840.92	-
27	PT	63+04.21'SB'	3.00' RT	865.60	511687.39	815836.28	-
28	PT	63+27.69'SB'	3.00' RT	865.71	511710.42	815831.87	-
29	PC	63+36.54'SB'	3.02' RT	865.71	511719.13	815830.27	-
30	MID PT.	63+40.92'SB'	6.49' RT	865.40	511724.06	815832.89	-
31	PC	63+38.55'SB'	11.54' RT	865.66	511722.66	815838.29	-
32	MID PT.	63+10.53'SB'	21.86' RT	865.38	511697.16	815853.59	-

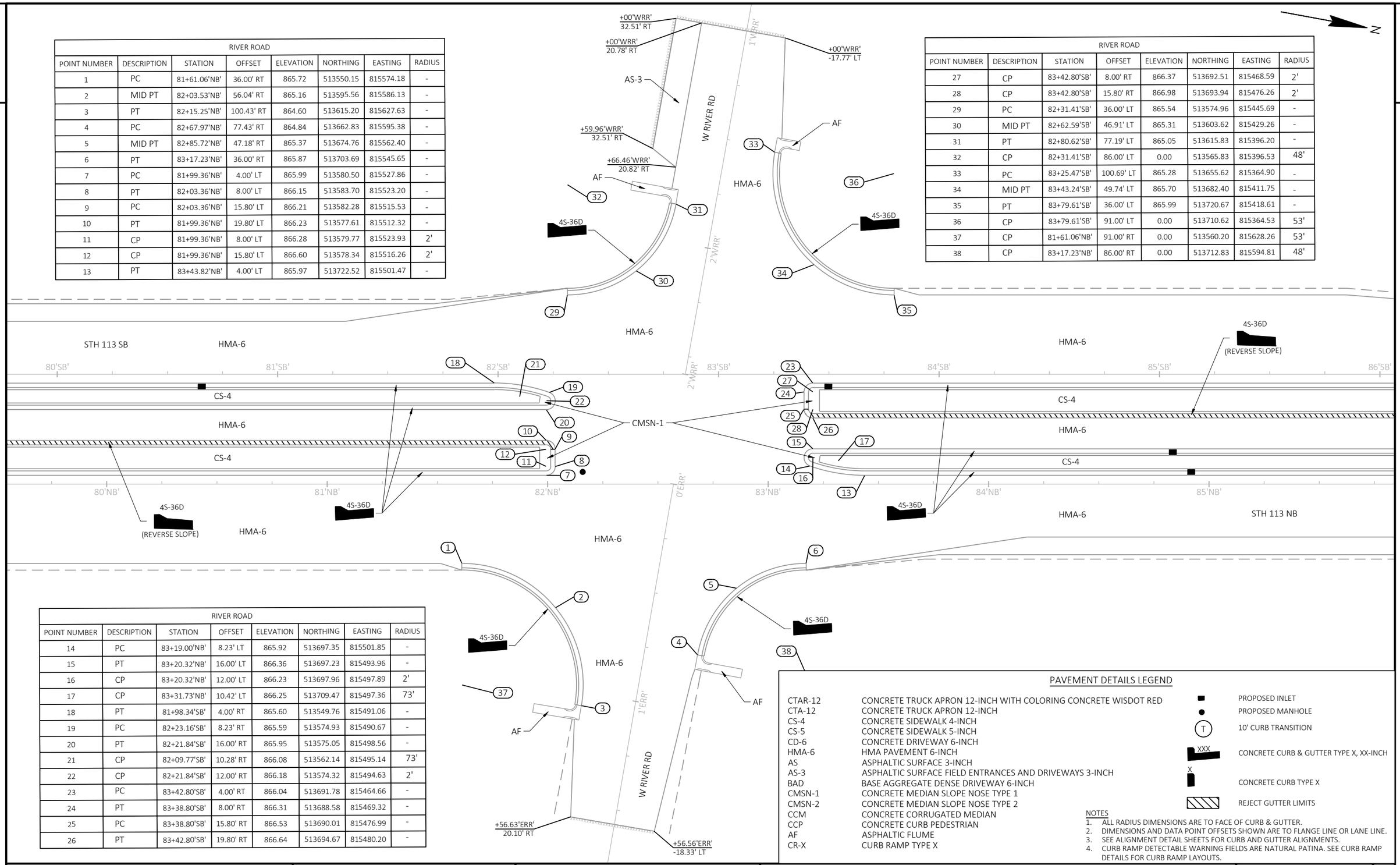
CTH M							
POINT NUMBER	DESCRIPTION	STATION	OFFSET	ELEVATION	NORTHING	EASTING	RADIUS
33	PC	62+80.73'SB'	25.66' RT	864.91	511669.00	815863.11	-
34	CP	63+36.46'SB'	7.50' RT	0.00	511719.87	815834.70	2.5'
35	CP	62+00.50'SB'	38.50' LT	866.95	511576.40	815818.26	2.5'
36	CP	63+34.47'SB'	38.49' LT	0.00	511709.50	815789.85	2.5'
37	CP	63+73.55'SB'	43.76' LT	0.00	511746.96	815777.52	7.5'
38	CP	64+71.51'SB'	57.60' LT	0.00	511840.75	815746.02	47'

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PAVEMENT DETAILS	SHEET 32	E

RIVER ROAD							
POINT NUMBER	DESCRIPTION	STATION	OFFSET	ELEVATION	NORTHING	EASTING	RADIUS
1	PC	81+61.06'NB'	36.00' RT	865.72	513550.15	815574.18	-
2	MID PT	82+03.53'NB'	56.04' RT	865.16	513595.56	815586.13	-
3	PT	82+15.25'NB'	100.43' RT	864.60	513615.20	815627.63	-
4	PC	82+67.97'NB'	77.43' RT	864.84	513662.83	815595.38	-
5	MID PT	82+85.72'NB'	47.18' RT	865.37	513674.76	815562.40	-
6	PT	83+17.23'NB'	36.00' RT	865.87	513703.69	815545.65	-
7	PC	81+99.36'NB'	4.00' LT	865.99	513580.50	815527.86	-
8	PT	82+03.36'NB'	8.00' LT	866.15	513583.70	815523.20	-
9	PC	82+03.36'NB'	15.80' LT	866.21	513582.28	815515.53	-
10	PT	81+99.36'NB'	19.80' LT	866.23	513577.61	815512.32	-
11	CP	81+99.36'NB'	8.00' LT	866.28	513579.77	815523.93	2'
12	CP	81+99.36'NB'	15.80' LT	866.60	513578.34	815516.26	2'
13	PT	83+43.82'NB'	4.00' LT	865.97	513722.52	815501.47	-

RIVER ROAD							
POINT NUMBER	DESCRIPTION	STATION	OFFSET	ELEVATION	NORTHING	EASTING	RADIUS
27	CP	83+42.80'SB'	8.00' RT	866.37	513692.51	815468.59	2'
28	CP	83+42.80'SB'	15.80' RT	866.98	513693.94	815476.26	2'
29	PC	82+31.41'SB'	36.00' LT	865.54	513574.96	815445.69	-
30	MID PT	82+62.59'SB'	46.91' LT	865.31	513603.62	815429.26	-
31	PT	82+80.62'SB'	77.19' LT	865.05	513615.83	815396.20	-
32	CP	82+31.41'SB'	86.00' LT	0.00	513565.83	815396.53	48'
33	PC	83+25.47'SB'	100.69' LT	865.28	513655.62	815364.90	-
34	MID PT	83+43.24'SB'	49.74' LT	865.70	513682.40	815411.75	-
35	PT	83+79.61'SB'	36.00' LT	865.99	513720.67	815418.61	-
36	CP	83+79.61'SB'	91.00' LT	0.00	513710.62	815364.53	53'
37	CP	81+61.06'NB'	91.00' RT	0.00	513560.20	815628.26	53'
38	CP	83+17.23'NB'	86.00' RT	0.00	513712.83	815594.81	48'

RIVER ROAD							
POINT NUMBER	DESCRIPTION	STATION	OFFSET	ELEVATION	NORTHING	EASTING	RADIUS
14	PC	83+19.00'NB'	8.23' LT	865.92	513697.35	815501.85	-
15	PT	83+20.32'NB'	16.00' LT	866.36	513697.23	815493.96	-
16	CP	83+20.32'NB'	12.00' LT	866.23	513697.96	815497.89	2'
17	CP	83+31.73'NB'	10.42' LT	866.25	513709.47	815497.36	73'
18	PT	81+98.34'SB'	4.00' RT	865.60	513549.76	815491.06	-
19	PC	82+23.16'SB'	8.23' RT	865.59	513574.93	815490.67	-
20	PT	82+21.84'SB'	16.00' RT	865.95	513575.05	815498.56	-
21	CP	82+09.77'SB'	10.28' RT	866.08	513562.14	815495.14	73'
22	CP	82+21.84'SB'	12.00' RT	866.18	513574.32	815494.63	2'
23	PC	83+42.80'SB'	4.00' RT	866.04	513691.78	815464.66	-
24	PT	83+38.80'SB'	8.00' RT	866.31	513688.58	815469.32	-
25	PC	83+38.80'SB'	15.80' RT	866.53	513690.01	815476.99	-
26	PT	83+42.80'SB'	19.80' RT	866.64	513694.67	815480.20	-



PAVEMENT DETAILS LEGEND

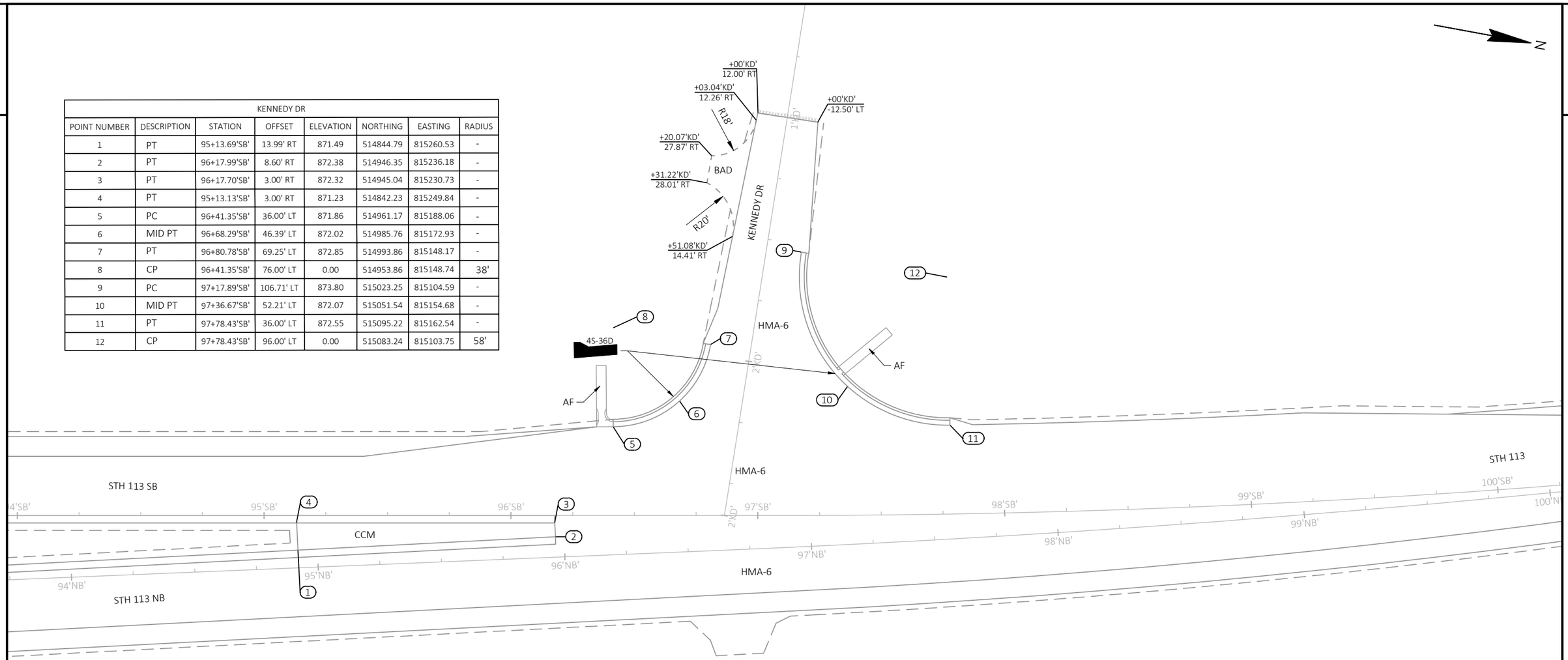
CTAR-12	CONCRETE TRUCK APRON 12-INCH WITH COLORING CONCRETE WISDOT RED
CTA-12	CONCRETE TRUCK APRON 12-INCH
CS-4	CONCRETE SIDEWALK 4-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CD-6	CONCRETE DRIVEWAY 6-INCH
HMA-6	HMA PAVEMENT 6-INCH
AS	ASPHALTIC SURFACE 3-INCH
AS-3	ASPHALTIC SURFACE FIELD ENTRANCES AND DRIVEWAYS 3-INCH
BAD	BASE AGGREGATE DENSE DRIVEWAY 6-INCH
CMSN-1	CONCRETE MEDIAN SLOPE NOSE TYPE 1
CMSN-2	CONCRETE MEDIAN SLOPE NOSE TYPE 2
CCM	CONCRETE CORRUGATED MEDIAN
CCP	CONCRETE CURB PEDESTRIAN
AF	ASPHALTIC FLUME
CR-X	CURB RAMP TYPE X

PROPOSED INLET
PROPOSED MANHOLE
10' CURB TRANSITION
CONCRETE CURB & GUTTER TYPE X, XX-INCH
CONCRETE CURB TYPE X
REJECT GUTTER LIMITS

NOTES
1. ALL RADIUS DIMENSIONS ARE TO FACE OF CURB & GUTTER.
2. DIMENSIONS AND DATA POINT OFFSETS SHOWN ARE TO FLANGE LINE OR LANE LINE.
3. SEE ALIGNMENT DETAIL SHEETS FOR CURB AND GUTTER ALIGNMENTS.
4. CURB RAMP DETECTABLE WARNING FIELDS ARE NATURAL PATINA. SEE CURB RAMP DETAILS FOR CURB RAMP LAYOUTS.

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PAVEMENT DETAILS	SHEET 33	E

KENNEDY DR							
POINT NUMBER	DESCRIPTION	STATION	OFFSET	ELEVATION	NORTHING	EASTING	RADIUS
1	PT	95+13.69'SB'	13.99' RT	871.49	514844.79	815260.53	-
2	PT	96+17.99'SB'	8.60' RT	872.38	514946.35	815236.18	-
3	PT	96+17.70'SB'	3.00' RT	872.32	514945.04	815230.73	-
4	PT	95+13.13'SB'	3.00' RT	871.23	514842.23	815249.84	-
5	PC	96+41.35'SB'	36.00' LT	871.86	514961.17	815188.06	-
6	MID PT	96+68.29'SB'	46.39' LT	872.02	514985.76	815172.93	-
7	PT	96+80.78'SB'	69.25' LT	872.85	514993.86	815148.17	-
8	CP	96+41.35'SB'	76.00' LT	0.00	514953.86	815148.74	38'
9	PC	97+17.89'SB'	106.71' LT	873.80	515023.25	815104.59	-
10	MID PT	97+36.67'SB'	52.21' LT	872.07	515051.54	815154.68	-
11	PT	97+78.43'SB'	36.00' LT	872.55	515095.22	815162.54	-
12	CP	97+78.43'SB'	96.00' LT	0.00	515083.24	815103.75	58'



PAVEMENT DETAILS LEGEND

CTAR-12	CONCRETE TRUCK APRON 12-INCH WITH COLORING CONCRETE WISDOT RED
CTA-12	CONCRETE TRUCK APRON 12-INCH
CS-4	CONCRETE SIDEWALK 4-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CD-6	CONCRETE DRIVEWAY 6-INCH
HMA-6	HMA PAVEMENT 6-INCH
AS	ASPHALTIC SURFACE 3-INCH
AS-3	ASPHALTIC SURFACE FIELD ENTRANCES AND DRIVEWAYS 3-INCH
BAD	BASE AGGREGATE DENSE DRIVEWAY 6-INCH
CMSN-1	CONCRETE MEDIAN SLOPE NOSE TYPE 1
CMSN-2	CONCRETE MEDIAN SLOPE NOSE TYPE 2
CCM	CONCRETE CORRUGATED MEDIAN
CCP	CONCRETE CURB PEDESTRIAN
AF	ASPHALTIC FLUME
CR-X	CURB RAMP TYPE X

PROPOSED INLET

PROPOSED MANHOLE

T — 10' CURB TRANSITION

XXX — CONCRETE CURB & GUTTER TYPE X, XX-INCH

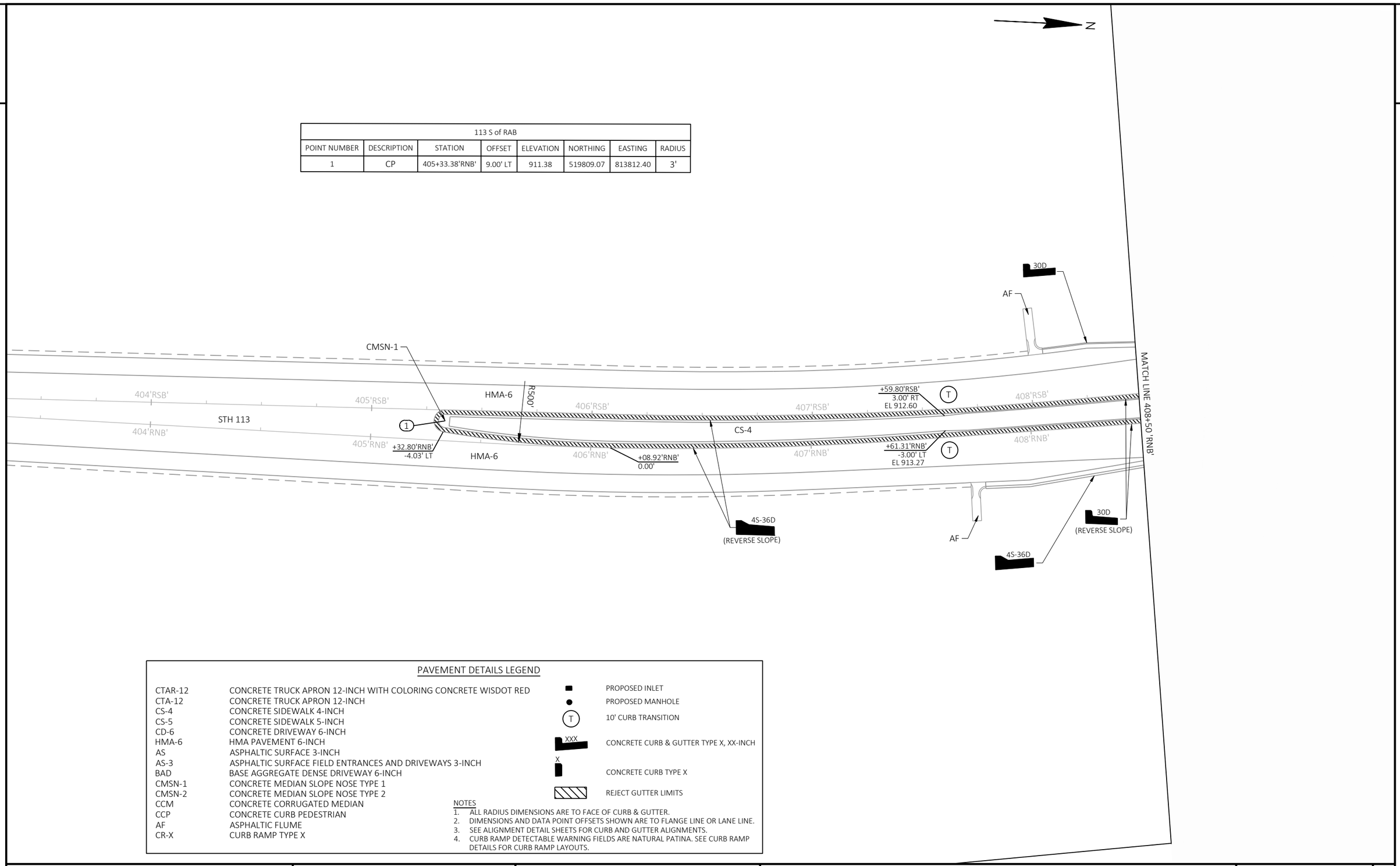
X — CONCRETE CURB TYPE X

REJECT GUTTER LIMITS

NOTES
1. ALL RADIUS DIMENSIONS ARE TO FACE OF CURB & GUTTER.
2. DIMENSIONS AND DATA POINT OFFSETS SHOWN ARE TO FLANGE LINE OR LANE LINE.
3. SEE ALIGNMENT DETAIL SHEETS FOR CURB AND GUTTER ALIGNMENTS.
4. CURB RAMP DETECTABLE WARNING FIELDS ARE NATURAL PATINA. SEE CURB RAMP DETAILS FOR CURB RAMP LAYOUTS.

2

113 S of RAB							
POINT NUMBER	DESCRIPTION	STATION	OFFSET	ELEVATION	NORTHING	EASTING	RADIUS
1	CP	405+33.38'RNB'	9.00' LT	911.38	519809.07	813812.40	3'



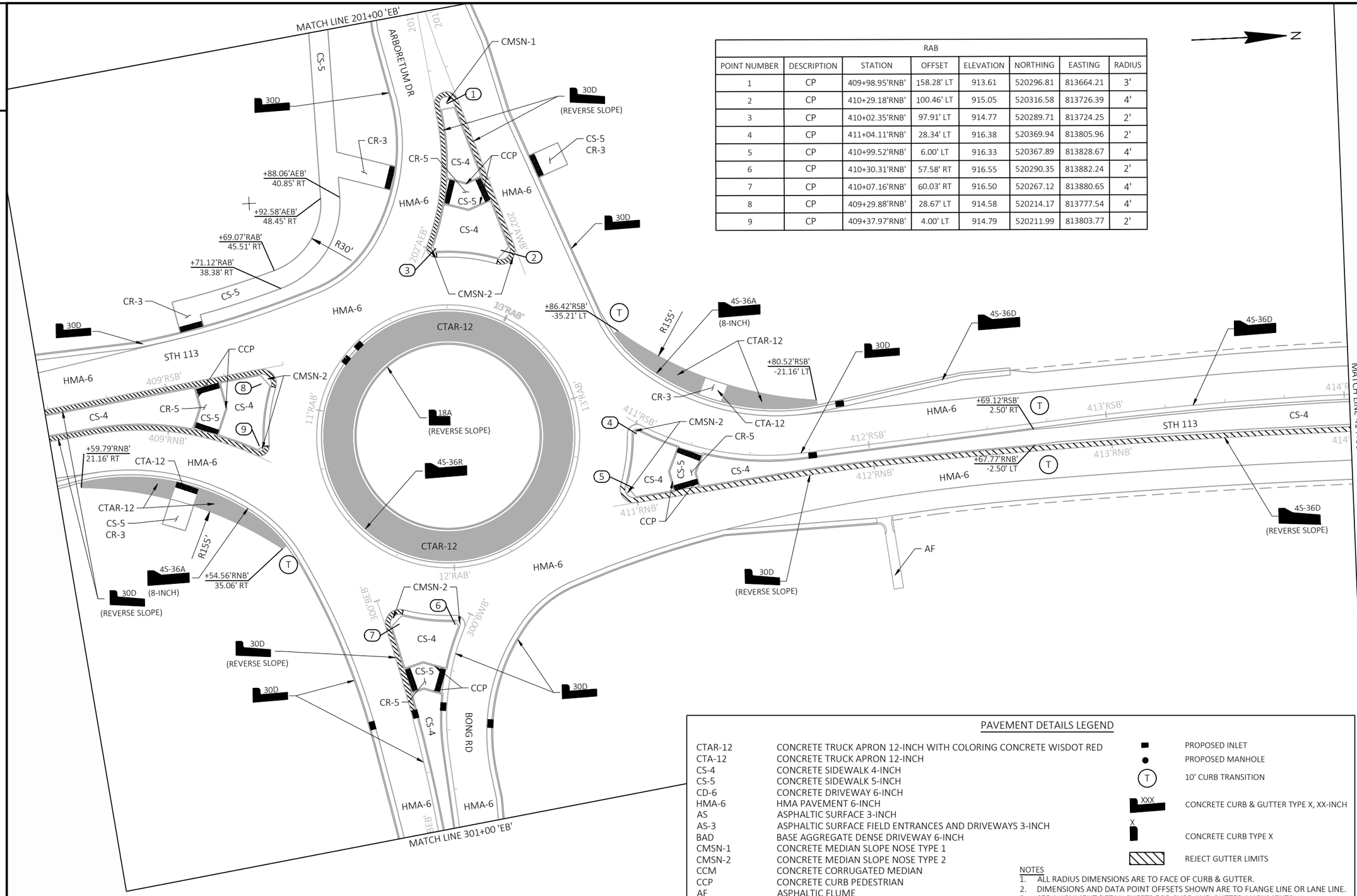
PAVEMENT DETAILS LEGEND

CTAR-12	CONCRETE TRUCK APRON 12-INCH WITH COLORING CONCRETE WISDOT RED
CTA-12	CONCRETE TRUCK APRON 12-INCH
CS-4	CONCRETE SIDEWALK 4-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CD-6	CONCRETE DRIVEWAY 6-INCH
HMA-6	HMA PAVEMENT 6-INCH
AS	ASPHALTIC SURFACE 3-INCH
AS-3	ASPHALTIC SURFACE FIELD ENTRANCES AND DRIVEWAYS 3-INCH
BAD	BASE AGGREGATE DENSE DRIVEWAY 6-INCH
CMSN-1	CONCRETE MEDIAN SLOPE NOSE TYPE 1
CMSN-2	CONCRETE MEDIAN SLOPE NOSE TYPE 2
CCM	CONCRETE CORRUGATED MEDIAN
CCP	CONCRETE CURB PEDESTRIAN
AF	ASPHALTIC FLUME
CR-X	CURB RAMP TYPE X

■	PROPOSED INLET
●	PROPOSED MANHOLE
(T)	10' CURB TRANSITION
XXX	CONCRETE CURB & GUTTER TYPE X, XX-INCH
X	CONCRETE CURB TYPE X
▨	REJECT GUTTER LIMITS

NOTES

1. ALL RADIUS DIMENSIONS ARE TO FACE OF CURB & GUTTER.
2. DIMENSIONS AND DATA POINT OFFSETS SHOWN ARE TO FLANGE LINE OR LANE LINE.
3. SEE ALIGNMENT DETAIL SHEETS FOR CURB AND GUTTER ALIGNMENTS.
4. CURB RAMP DETECTABLE WARNING FIELDS ARE NATURAL PATINA. SEE CURB RAMP DETAILS FOR CURB RAMP LAYOUTS.



RAB							
POINT NUMBER	DESCRIPTION	STATION	OFFSET	ELEVATION	NORTHING	EASTING	RADIUS
1	CP	409+98.95'RNB'	158.28' LT	913.61	520296.81	813664.21	3'
2	CP	410+29.18'RNB'	100.46' LT	915.05	520316.58	813726.39	4'
3	CP	410+02.35'RNB'	97.91' LT	914.77	520289.71	813724.25	2'
4	CP	411+04.11'RNB'	28.34' LT	916.38	520369.94	813805.96	2'
5	CP	410+99.52'RNB'	6.00' LT	916.33	520367.89	813828.67	4'
6	CP	410+30.31'RNB'	57.58' RT	916.55	520290.35	813882.24	2'
7	CP	410+07.16'RNB'	60.03' RT	916.50	520267.12	813880.65	4'
8	CP	409+29.88'RNB'	28.67' LT	914.58	520214.17	813777.54	4'
9	CP	409+37.97'RNB'	4.00' LT	914.79	520211.99	813803.77	2'

PAVEMENT DETAILS LEGEND

CTAR-12	CONCRETE TRUCK APRON 12-INCH WITH COLORING CONCRETE WISDOT RED
CTA-12	CONCRETE TRUCK APRON 12-INCH
CS-4	CONCRETE SIDEWALK 4-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CD-6	CONCRETE DRIVEWAY 6-INCH
HMA-6	HMA PAVEMENT 6-INCH
AS	ASPHALTIC SURFACE 3-INCH
AS-3	ASPHALTIC SURFACE FIELD ENTRANCES AND DRIVEWAYS 3-INCH
BAD	BASE AGGREGATE DENSE DRIVEWAY 6-INCH
CMSN-1	CONCRETE MEDIAN SLOPE NOSE TYPE 1
CMSN-2	CONCRETE MEDIAN SLOPE NOSE TYPE 2
CCM	CONCRETE CORRUGATED MEDIAN
CCP	CONCRETE CURB PEDESTRIAN
AF	ASPHALTIC FLUME
CR-X	CURB RAMP TYPE X

PROPOSED INLET

PROPOSED MANHOLE

(T) 10' CURB TRANSITION

XXX CONCRETE CURB & GUTTER TYPE X, XX-INCH

X CONCRETE CURB TYPE X

REJECT GUTTER LIMITS

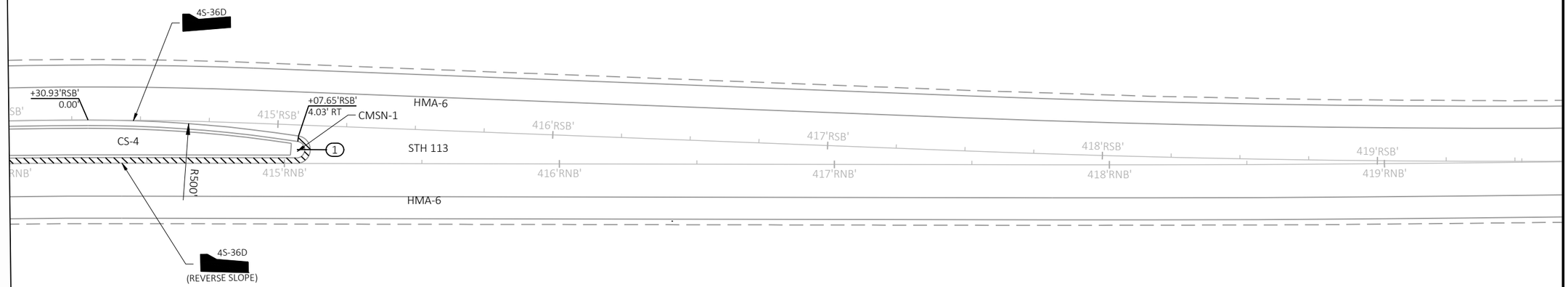
NOTES
1. ALL RADIUS DIMENSIONS ARE TO FACE OF CURB & GUTTER.
2. DIMENSIONS AND DATA POINT OFFSETS SHOWN ARE TO FLANGE LINE OR LANE LINE.
3. SEE ALIGNMENT DETAIL SHEETS FOR CURB AND GUTTER ALIGNMENTS.
4. CURB RAMP DETECTABLE WARNING FIELDS ARE NATURAL PATINA. SEE CURB RAMP DETAILS FOR CURB RAMP LAYOUTS.

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PAVEMENT DETAILS	SHEET 36	E

2

N

113 N of RAB							
POINT NUMBER	DESCRIPTION	STATION	OFFSET	ELEVATION	NORTHING	EASTING	RADIUS
1	CP	415+04.36'RNB'	5.00' LT	921.65	520772.82	813815.76	3'



PAVEMENT DETAILS LEGEND

CTAR-12	CONCRETE TRUCK APRON 12-INCH WITH COLORING CONCRETE WISDOT RED
CTA-12	CONCRETE TRUCK APRON 12-INCH
CS-4	CONCRETE SIDEWALK 4-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CD-6	CONCRETE DRIVEWAY 6-INCH
HMA-6	HMA PAVEMENT 6-INCH
AS	ASPHALTIC SURFACE 3-INCH
AS-3	ASPHALTIC SURFACE FIELD ENTRANCES AND DRIVEWAYS 3-INCH
BAD	BASE AGGREGATE DENSE DRIVEWAY 6-INCH
CMSN-1	CONCRETE MEDIAN SLOPE NOSE TYPE 1
CMSN-2	CONCRETE MEDIAN SLOPE NOSE TYPE 2
CCM	CONCRETE CORRUGATED MEDIAN
CCP	CONCRETE CURB PEDESTRIAN
AF	ASPHALTIC FLUME
CR-X	CURB RAMP TYPE X

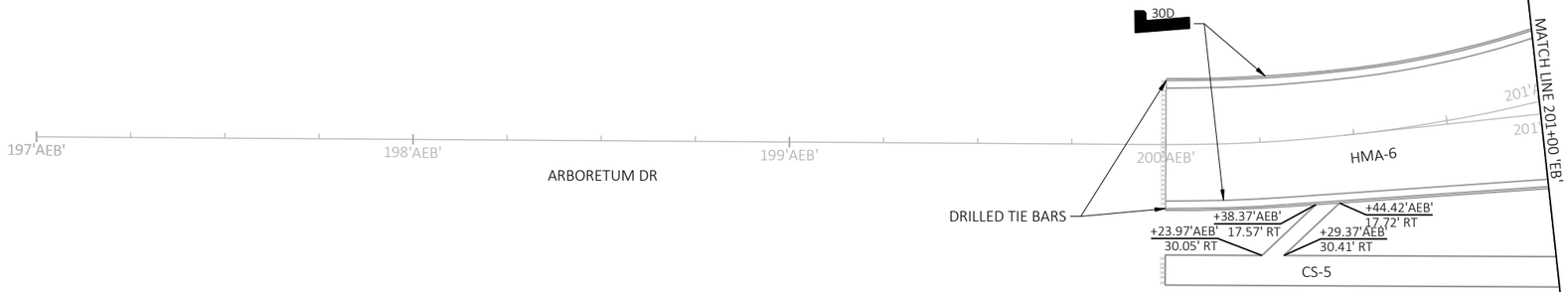
■	PROPOSED INLET
●	PROPOSED MANHOLE
(T)	10' CURB TRANSITION
XXX	CONCRETE CURB & GUTTER TYPE X, XX-INCH
X	CONCRETE CURB TYPE X
▨	REJECT GUTTER LIMITS

NOTES

1. ALL RADIUS DIMENSIONS ARE TO FACE OF CURB & GUTTER.
2. DIMENSIONS AND DATA POINT OFFSETS SHOWN ARE TO FLANGE LINE OR LANE LINE.
3. SEE ALIGNMENT DETAIL SHEETS FOR CURB AND GUTTER ALIGNMENTS.
4. CURB RAMP DETECTABLE WARNING FIELDS ARE NATURAL PATINA. SEE CURB RAMP DETAILS FOR CURB RAMP LAYOUTS.

2

N



PAVEMENT DETAILS LEGEND

CTAR-12	CONCRETE TRUCK APRON 12-INCH WITH COLORING CONCRETE WISDOT RED
CTA-12	CONCRETE TRUCK APRON 12-INCH
CS-4	CONCRETE SIDEWALK 4-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CD-6	CONCRETE DRIVEWAY 6-INCH
HMA-6	HMA PAVEMENT 6-INCH
AS	ASPHALTIC SURFACE 3-INCH
AS-3	ASPHALTIC SURFACE FIELD ENTRANCES AND DRIVEWAYS 3-INCH
BAD	BASE AGGREGATE DENSE DRIVEWAY 6-INCH
CMSN-1	CONCRETE MEDIAN SLOPE NOSE TYPE 1
CMSN-2	CONCRETE MEDIAN SLOPE NOSE TYPE 2
CCM	CONCRETE CORRUGATED MEDIAN
CCP	CONCRETE CURB PEDESTRIAN
AF	ASPHALTIC FLUME
CR-X	CURB RAMP TYPE X

PROPOSED INLET

PROPOSED MANHOLE

(T) 10' CURB TRANSITION

XXX CONCRETE CURB & GUTTER TYPE X, XX-INCH

X CONCRETE CURB TYPE X

REJECT GUTTER LIMITS

NOTES
1. ALL RADIUS DIMENSIONS ARE TO FACE OF CURB & GUTTER.
2. DIMENSIONS AND DATA POINT OFFSETS SHOWN ARE TO FLANGE LINE OR LANE LINE.
3. SEE ALIGNMENT DETAIL SHEETS FOR CURB AND GUTTER ALIGNMENTS.
4. CURB RAMP DETECTABLE WARNING FIELDS ARE NATURAL PATINA. SEE CURB RAMP DETAILS FOR CURB RAMP LAYOUTS.

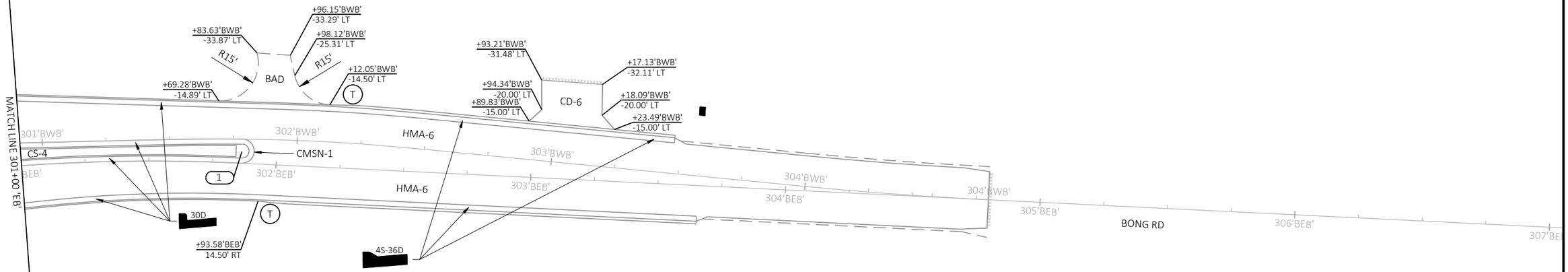
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PAVEMENT DETAILS	SHEET 38	E

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LAYOUT NAME - 021208-pd
PLOT DATE : 10/31/2022 12:44 PM PLOT BY : NATHAN COOK PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

BONG ROAD							
POINT NUMBER	DESCRIPTION	STATION	OFFSET	ELEVATION	NORTHING	EASTING	RADIUS
1	CP	301+86.33'BEB'	4.75' LT	927.25	520291.10	814054.12	3'



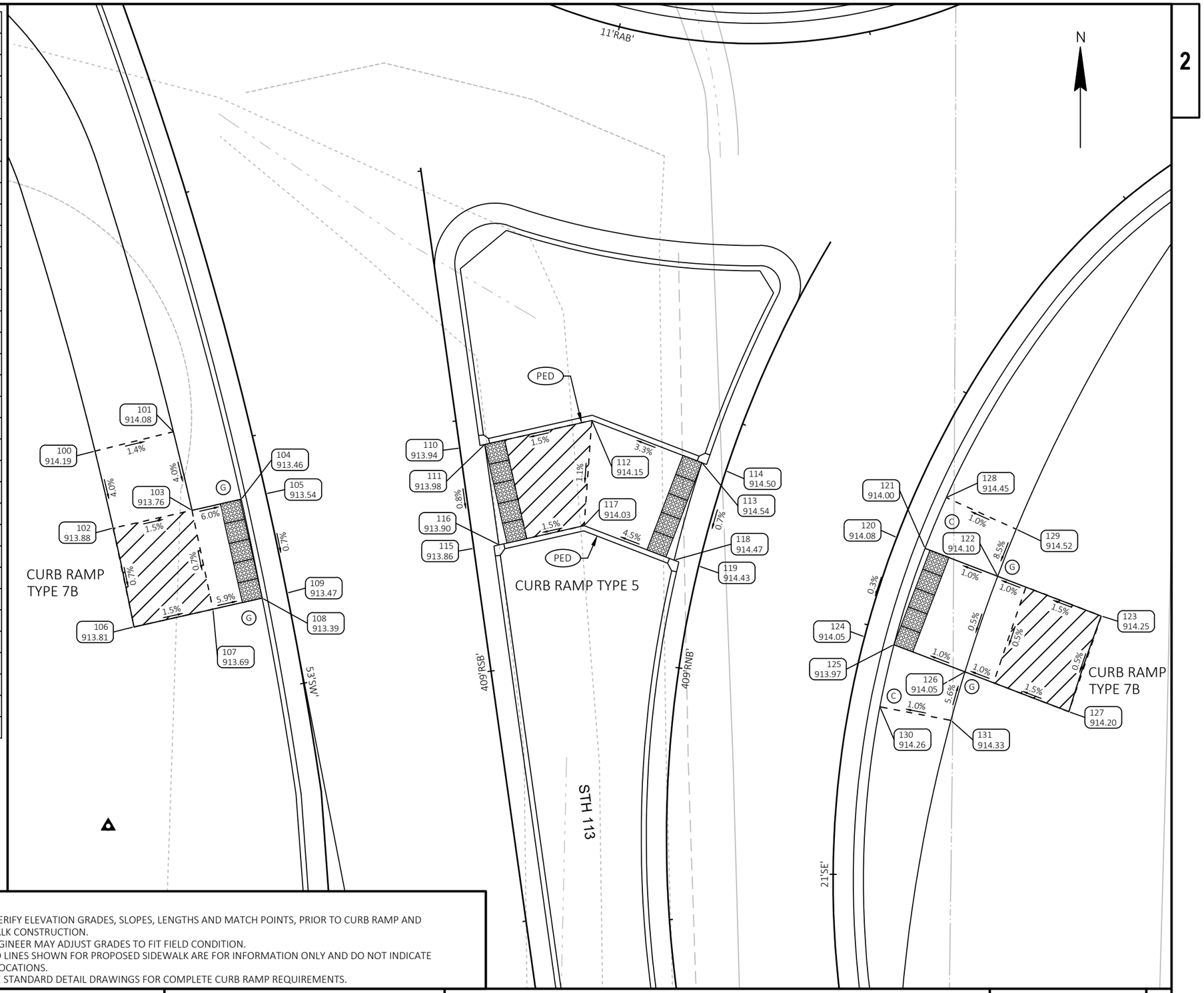
PAVEMENT DETAILS LEGEND

CTAR-12	CONCRETE TRUCK APRON 12-INCH WITH COLORING CONCRETE WISDOT RED
CTA-12	CONCRETE TRUCK APRON 12-INCH
CS-4	CONCRETE SIDEWALK 4-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CD-6	CONCRETE DRIVEWAY 6-INCH
HMA-6	HMA PAVEMENT 6-INCH
AS	ASPHALTIC SURFACE 3-INCH
AS-3	ASPHALTIC SURFACE FIELD ENTRANCES AND DRIVEWAYS 3-INCH
BAD	BASE AGGREGATE DENSE DRIVEWAY 6-INCH
CMSN-1	CONCRETE MEDIAN SLOPE NOSE TYPE 1
CMSN-2	CONCRETE MEDIAN SLOPE NOSE TYPE 2
CCM	CONCRETE CORRUGATED MEDIAN
CCP	CONCRETE CURB PEDESTRIAN
AF	ASPHALTIC FLUME
CR-X	CURB RAMP TYPE X

	PROPOSED INLET
	PROPOSED MANHOLE
T	10' CURB TRANSITION
XXX	CONCRETE CURB & GUTTER TYPE X, XX-INCH
X	CONCRETE CURB TYPE X
	REJECT GUTTER LIMITS

NOTES
1. ALL RADIUS DIMENSIONS ARE TO FACE OF CURB & GUTTER.
2. DIMENSIONS AND DATA POINT OFFSETS SHOWN ARE TO FLANGE LINE OR LANE LINE.
3. SEE ALIGNMENT DETAIL SHEETS FOR CURB AND GUTTER ALIGNMENTS.
4. CURB RAMP DETECTABLE WARNING FIELDS ARE NATURAL PATINA. SEE CURB RAMP DETAILS FOR CURB RAMP LAYOUTS.

CURB RAMPS-113-RAB-S					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
100	52+72.72 'SW'	15.50' RT	914.19	520195.64	813737.90
101	52+72.72 'SW'	7.50' RT	914.08	520197.56	813745.67
102	52+80.87 'SW'	15.50' RT	913.88	520188.01	813739.70
103	52+80.87 'SW'	7.50' RT	913.76	520189.77	813747.50
104	52+80.87 'SW'	2.50' RT	913.46	520190.87	813752.38
105	52+80.87 'SW'	0.00'	913.54	520191.41	813754.82
106	52+91.27 'SW'	15.50' RT	913.81	520178.23	813741.77
107	52+91.06 'SW'	7.50' RT	913.69	520179.99	813749.57
108	52+90.93 'SW'	2.50' RT	913.39	520181.08	813754.45
109	52+90.93 'SW'	0.00'	913.47	520181.57	813756.91
110	409+22.30 'RSB'	0.00'	913.94	520195.95	813774.03
111	409+22.30 'RSB'	2.50' RT	913.98	520196.29	813776.51
112	409+23.19 'RSB'	13.32' RT	914.15	520198.67	813787.10
113	409+20.09 'RNB'	2.50' LT	914.54	520194.48	813798.01
114	409+20.09 'RNB'	0.00'	914.50	520193.69	813800.38
115	409+12.27 'RSB'	0.00'	913.86	520186.01	813775.42
116	409+12.27 'RSB'	2.50' RT	913.90	520186.36	813777.90
117	409+12.98 'RSB'	11.13' RT	914.03	520188.25	813786.34
118	409+10.27 'RNB'	2.50' LT	914.47	520184.84	813795.25
119	409+10.27 'RNB'	0.00'	914.43	520184.26	813797.68
120	21+34.13 'SE'	0.00'	914.08	520187.09	813817.30
121	21+34.13 'SE'	3.00' RT	914.00	520186.02	813820.11
122	21+34.13 'SE'	10.70' RT	914.10	520183.25	813827.29
123	21+34.13 'SE'	21.70' RT	914.25	520179.31	813837.56
124	21+23.78 'SE'	0.00'	914.05	520177.24	813814.13
125	21+23.78 'SE'	3.00' RT	913.97	520176.48	813817.03
126	21+22.86 'SE'	10.48' RT	914.05	520173.78	813824.06
127	21+21.18 'SE'	21.42' RT	914.20	520169.83	813834.36
128	21+39.76 'SE'	3.00' RT	914.45	520191.04	813822.21
129	21+39.76 'SE'	10.61' RT	914.52	520187.90	813829.14
130	21+17.26 'SE'	3.00' RT	914.26	520170.33	813815.63
131	21+17.26 'SE'	10.17' RT	914.33	520168.98	813822.67



LEGEND:

- XXXX — SAWCUT REQ'D
- LANDING AREA
- DETECTABLE WARNING FIELD
- (G) 6:1 GRADED FLARE
- (C) 10:1 CONCRETE FLARE
- PED — CONCRETE CURB PEDESTRIAN
- XXXX YYY.YY — POINT NUMBER & ELEVATION

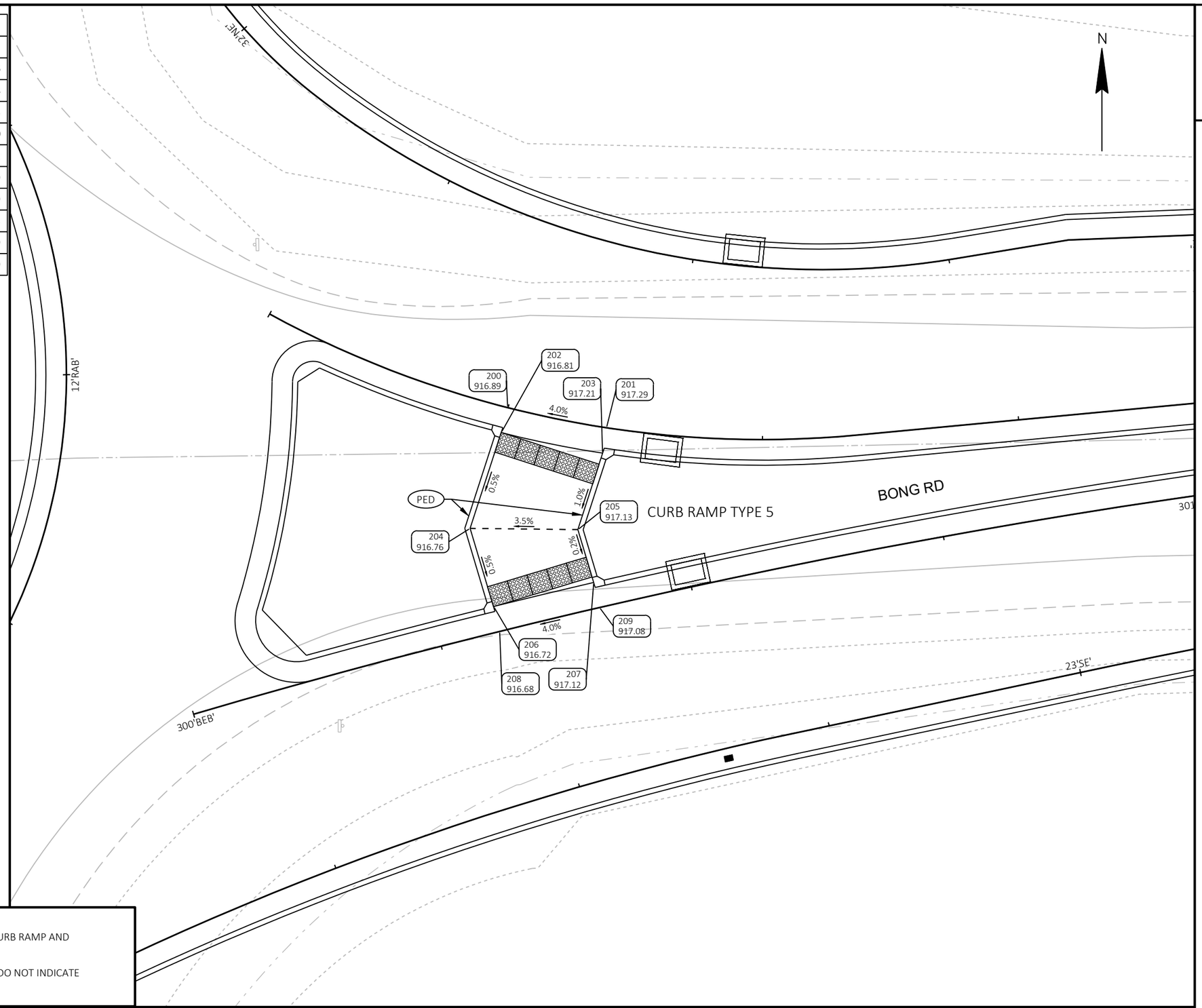
NOTES:

1. FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST GRADES TO FIT FIELD CONDITION.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CURB RAMP DETAILS - ARBORETUM DR/BONG RD INTERSECTION	SHEET 40	E

2

CURB RAMPS-113-RAB-E					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
200	300+24.95 'BWB'	0.00'	916.89	520287.85	813901.16
201	300+34.77 'BWB'	0.00'	917.29	520285.89	813910.78
202	300+24.95 'BWB'	2.50' RT	916.81	520285.43	813900.55
203	300+34.77 'BWB'	2.50' RT	917.21	520283.42	813910.40
204	300+30.47 'BEB'	10.42' LT	916.76	520276.10	813897.52
205	300+40.50 'BEB'	7.86' LT	917.13	520275.98	813907.99
206	300+30.85 'BEB'	2.50' LT	916.72	520268.51	813899.79
207	300+40.83 'BEB'	2.50' LT	917.12	520270.84	813909.53
208	300+30.85 'BEB'	0.00'	916.68	520266.08	813900.39
209	300+40.83 'BEB'	0.00'	917.08	520268.40	813910.09



LEGEND:

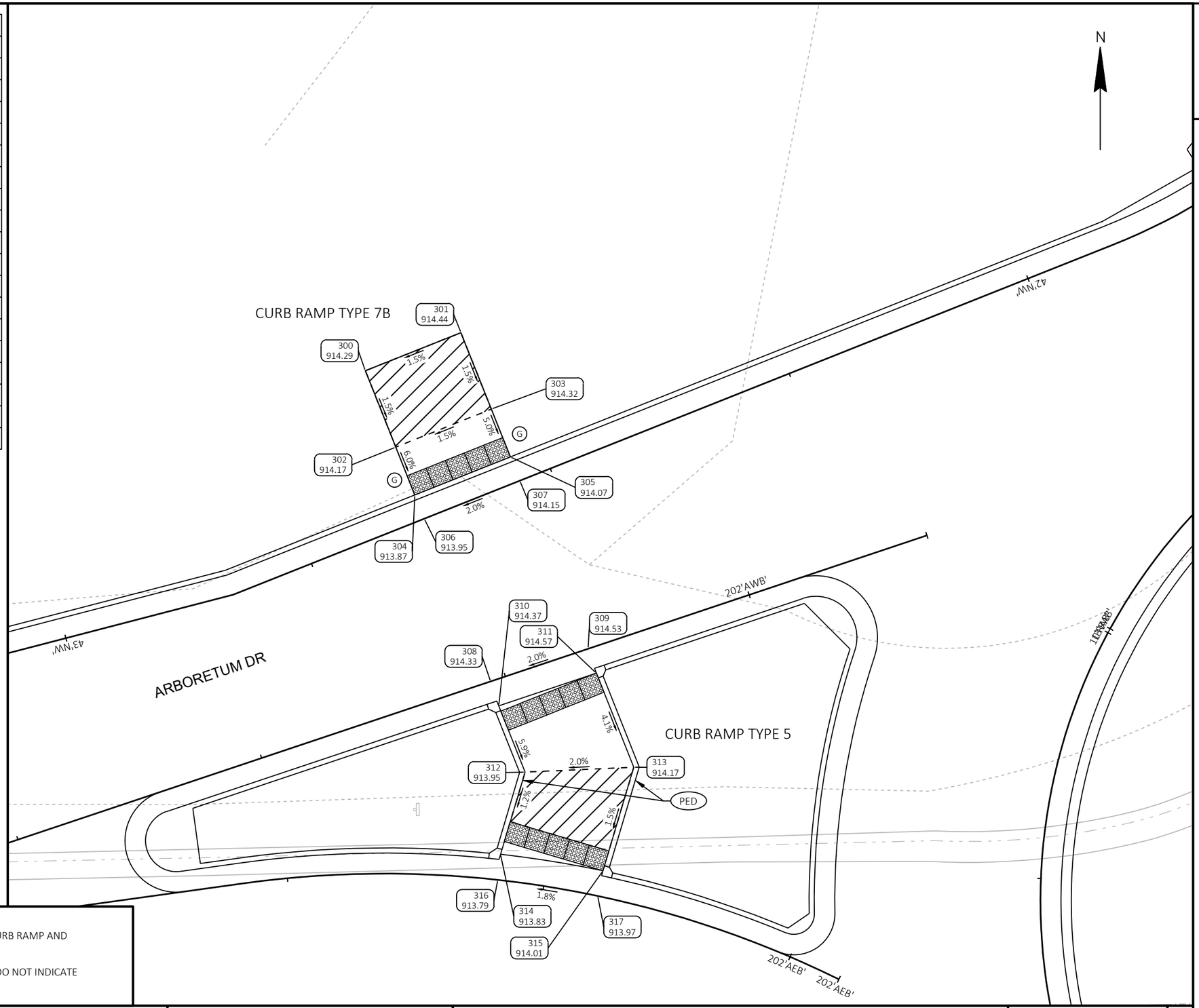
- .XXXX. SAWCUT REQ'D
- LANDING AREA
- DETECTABLE WARNING FIELD
- (G) 6:1 GRADED FLARE
- (C) 10:1 CONCRETE FLARE
- (PED) CONCRETE CURB PEDESTRIAN
- (XXXX / YYY.YY) POINT NUMBER & ELEVATION

NOTES:

1. FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST GRADES TO FIT FIELD CONDITION.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CURB RAMP DETAILS - ARBORETUM DR/BONG RD INTERSECTION	SHEET 41	E

CURB RAMPS-113-RAB-W					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
300	42+63.19 'NW'	15.50' RT	914.29	520342.54	813682.58
301	42+53.19 'NW'	15.50' RT	914.44	520346.24	813691.88
302	42+63.19 'NW'	7.50' RT	914.17	520335.11	813685.54
303	42+53.19 'NW'	7.50' RT	914.32	520338.80	813694.83
304	42+63.19 'NW'	2.50' RT	913.87	520330.46	813687.39
305	42+53.19 'NW'	2.50' RT	914.07	520334.16	813696.68
306	42+63.19 'NW'	0.00'	913.95	520328.14	813688.31
307	42+53.19 'NW'	0.00'	914.15	520331.84	813697.60
308	201+73.48 'AWB'	0.00'	914.33	520312.32	813694.76
309	201+83.49 'AWB'	0.00'	914.53	520315.49	813704.25
310	201+73.48 'AWB'	2.50' RT	914.37	520309.94	813695.55
311	201+83.49 'AWB'	2.50' RT	914.57	520313.12	813705.05
312	201+71.84 'AEB'	10.72' LT	913.95	520303.49	813698.12
313	201+81.09 'AEB'	12.97' LT	914.17	520303.97	813708.69
314	201+70.49 'AEB'	2.50' LT	913.83	520295.50	813695.73
315	201+80.33 'AEB'	2.50' LT	914.01	520293.90	813705.69
316	201+70.49 'AEB'	0.00'	913.79	520293.01	813695.46
317	201+80.33 'AEB'	0.00'	913.97	520291.45	813705.17



LEGEND:

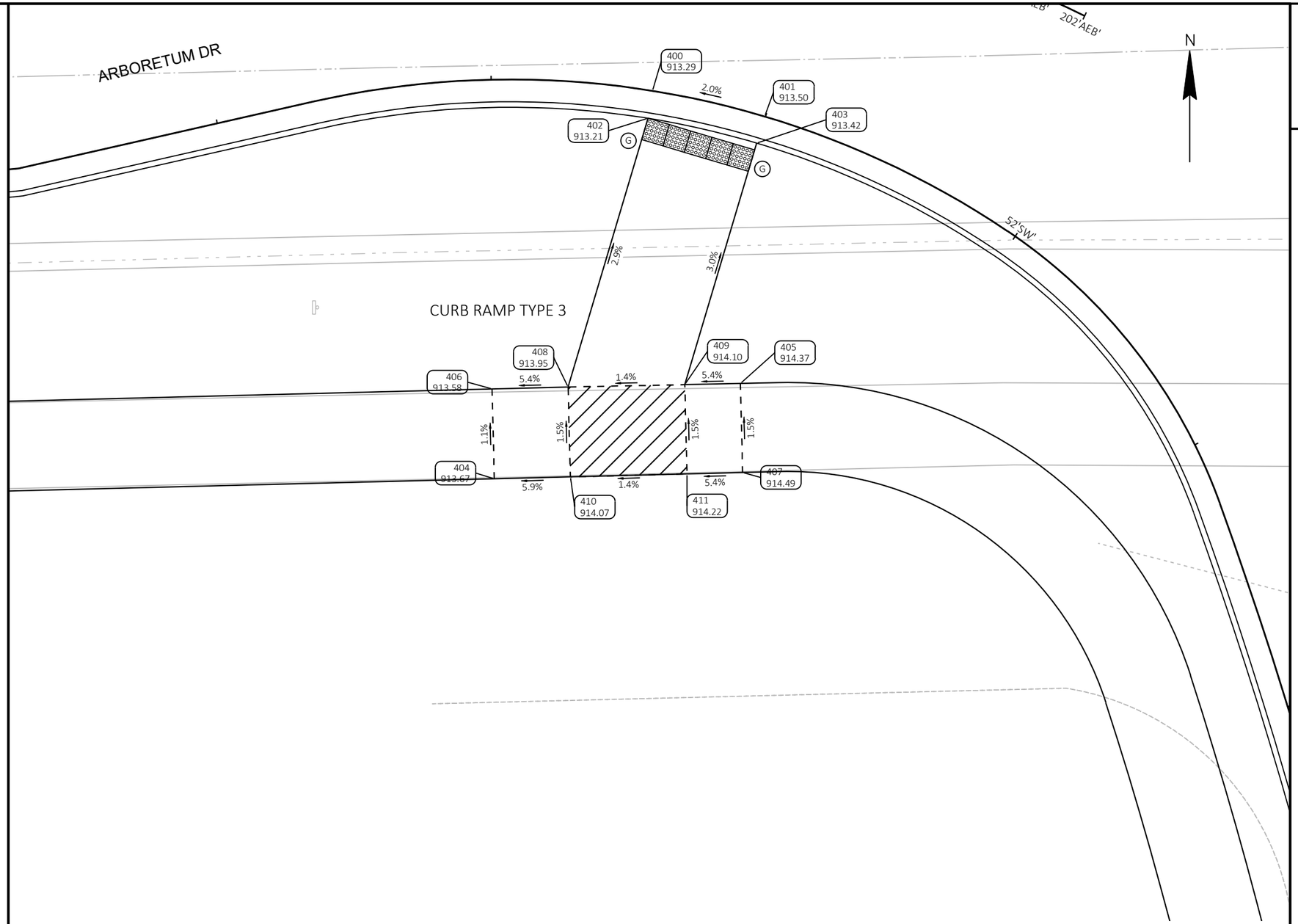
- XXXX — SAWCUT REQ'D
- LANDING AREA
- DETECTABLE WARNING FIELD
- (G) 6:1 GRADED FLARE
- (C) 10:1 CONCRETE FLARE
- (PED) CONCRETE CURB PEDESTRIAN
- XXXX / YYY.YY — POINT NUMBER & ELEVATION

NOTES:

1. FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST GRADES TO FIT FIELD CONDITION.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CURB RAMP DETAILS - ARBORETUM DR/BONG RD INTERSECTION	SHEET 42	E

CURB RAMPS-113-RAB-W					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
400	51+64.57 'SW'	0.00'	913.29	520276.61	813689.77
401	51+74.92 'SW'	0.00'	913.50	520274.30	813699.85
402	51+64.57 'SW'	2.50' RT	913.21	520274.14	813689.37
403	51+74.92 'SW'	2.50' RT	913.42	520271.90	813699.14
404	51+49.08 'SW'	35.88' RT	913.67	520241.72	813675.54
405	51+81.66 'SW'	23.43' RT	914.37	520250.29	813697.67
406	51+49.19 'SW'	27.80' RT	913.58	520249.80	813675.33
407	51+86.72 'SW'	30.71' RT	914.49	520242.29	813697.87
408	51+59.61 'SW'	27.40' RT	913.95	520249.98	813682.17
409	51+74.92 'SW'	25.16' RT	914.10	520250.18	813692.67
410	51+61.41 'SW'	35.41' RT	914.07	520241.90	813682.38
411	51+79.13 'SW'	32.73' RT	914.22	520242.16	813692.87



LEGEND:

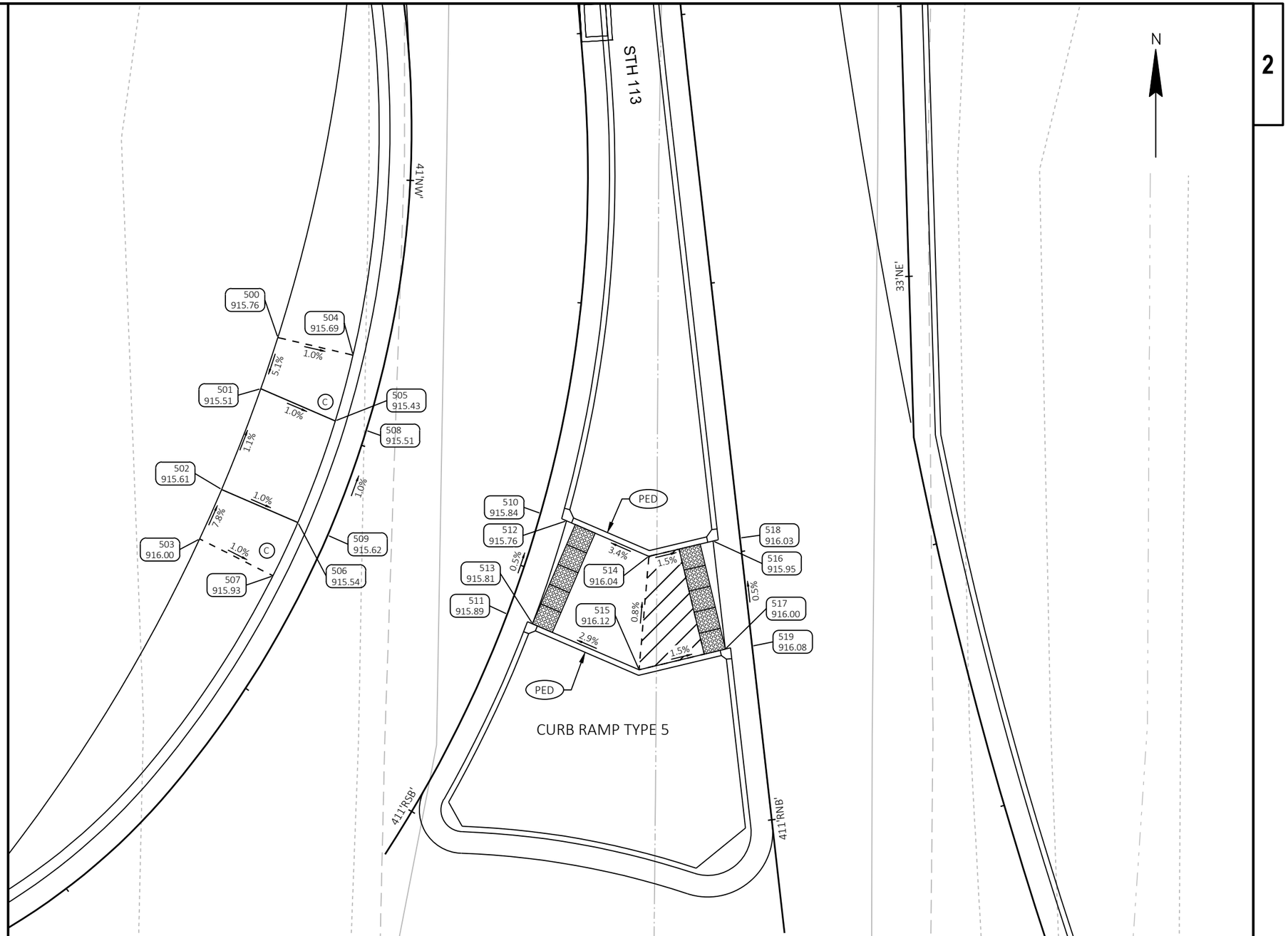
.XXXX.	SAWCUT REQ'D
	LANDING AREA
	DETECTABLE WARNING FIELD
G	6:1 GRADED FLARE
C	10:1 CONCRETE FLARE
PED	CONCRETE CURB PEDESTRIAN
XXXX YYY.YY	POINT NUMBER & ELEVATION

NOTES:

1. FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST GRADES TO FIT FIELD CONDITION.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CURB RAMP DETAILS - ARBORETUM DR/BONG RD INTERSECTION	SHEET 43	E

CURB RAMPS-113-RAB-N					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
500	41+17.05 'NW'	10.15' RT	915.76	520413.68	813788.85
501	41+22.65 'NW'	10.46' RT	915.51	520408.94	813787.27
502	41+33.91 'NW'	10.69' RT	915.61	520399.61	813783.65
503	41+39.54 'NW'	10.60' RT	916.00	520395.04	813781.61
504	41+17.05 'NW'	3.00' RT	915.69	520412.05	813795.81
505	41+23.56 'NW'	3.00' RT	915.43	520405.97	813794.17
506	41+33.91 'NW'	3.00' RT	915.54	520396.56	813790.70
507	41+39.54 'NW'	3.00' RT	915.93	520391.63	813788.40
508	41+23.56 'NW'	0.00'	915.51	520405.08	813797.03
509	41+33.91 'NW'	0.00'	915.62	520395.38	813793.46
510	411+30.15 'RSB'	0.00'	915.84	520397.40	813813.18
511	411+20.32 'RSB'	0.00'	915.89	520388.08	813810.09
512	411+30.15 'RSB'	2.50' RT	915.76	520396.72	813815.58
513	411+20.32 'RSB'	2.50' RT	915.81	520387.19	813812.43
514	411+25.51 'RNB'	8.57' LT	916.04	520393.43	813823.20
515	411+15.18 'RNB'	10.65' LT	916.12	520382.93	813822.29
516	411+26.26 'RNB'	2.50' LT	915.95	520394.85	813829.15
517	411+16.18 'RNB'	2.50' LT	916.00	520384.84	813830.28
518	411+26.26 'RNB'	0.00'	916.03	520395.13	813831.63
519	411+16.18 'RNB'	0.00'	916.08	520385.12	813832.76



CURB RAMP TYPE 5

LEGEND:

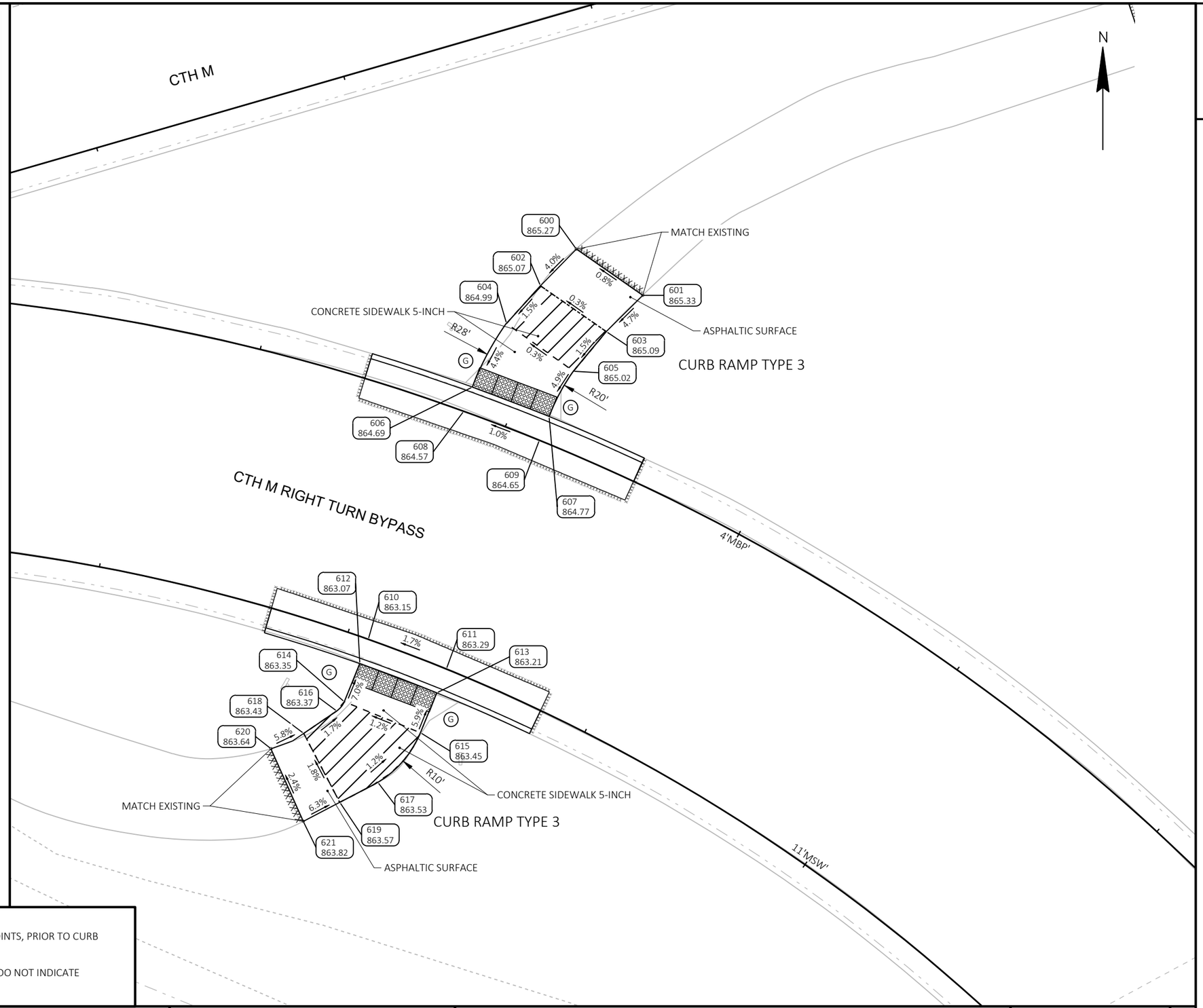
- .XXXX. SAWCUT REQ'D
- LANDING AREA
- DETECTABLE WARNING FIELD
- (G) 6:1 GRADED FLARE
- (C) 10:1 CONCRETE FLARE
- (PED) CONCRETE CURB PEDESTRIAN
- XXXX / YYY.YY POINT NUMBER & ELEVATION

NOTES:

1. FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST GRADES TO FIT FIELD CONDITION.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CURB RAMP DETAILS - ARBORETUM DR/BONG RD INTERSECTION	SHEET 44	E

CURB RAMPS-M-SW					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
600	3+75.20 'MBP'	18.60' LT	865.27	511671.86	815724.04
601	3+82.25 'MBP'	16.88' LT	865.33	511667.37	815730.49
602	3+73.36 'MBP'	14.02' LT	865.07	511668.29	815720.54
603	3+80.50 'MBP'	12.25' LT	865.09	511663.84	815726.95
604	3+71.64 'MBP'	9.44' LT	864.99	511664.63	815717.24
605	3+79.08 'MBP'	7.47' LT	865.02	511659.99	815723.76
606	3+70.68 'MBP'	2.50' LT	864.69	511658.45	815713.94
607	3+78.56 'MBP'	2.50' LT	864.77	511655.59	815721.39
608	3+70.68 'MBP'	0.00'	864.57	511656.10	815713.09
609	3+78.56 'MBP'	0.00'	864.65	511653.28	815720.44
610	10+52.08 'MSW'	0.00'	863.15	511633.93	815703.81
611	10+60.20 'MSW'	0.00'	863.29	511631.05	815711.40
612	10+52.08 'MSW'	2.50' RT	863.07	511631.57	815702.98
613	10+60.20 'MSW'	2.50' RT	863.21	511628.73	815710.46
614	10+51.89 'MSW'	6.50' RT	863.35	511627.86	815701.47
615	10+60.20 'MSW'	6.69' RT	863.45	511624.85	815708.88
616	10+51.49 'MSW'	7.59' RT	863.37	511626.96	815700.74
617	10+58.02 'MSW'	12.70' RT	863.53	511620.03	815704.74
618	10+49.03 'MSW'	10.69' RT	863.43	511624.78	815697.53
619	10+55.02 'MSW'	15.84' RT	863.57	511618.08	815701.04



LEGEND:

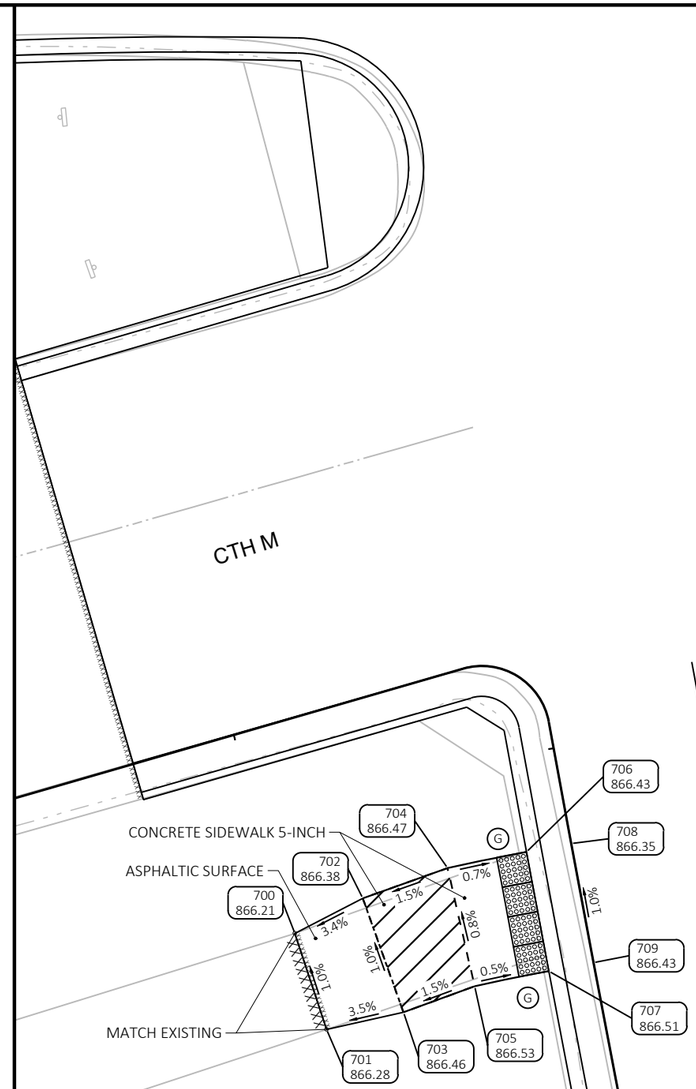
- XXXX — SAWCUT REQ'D
- LANDING AREA
- DETECTABLE WARNING FIELD
- (G) 6:1 GRADED FLARE
- (C) 10:1 CONCRETE FLARE
- (PED) CONCRETE CURB PEDESTRIAN
- XXXX YYY.YY — POINT NUMBER & ELEVATION

NOTES:

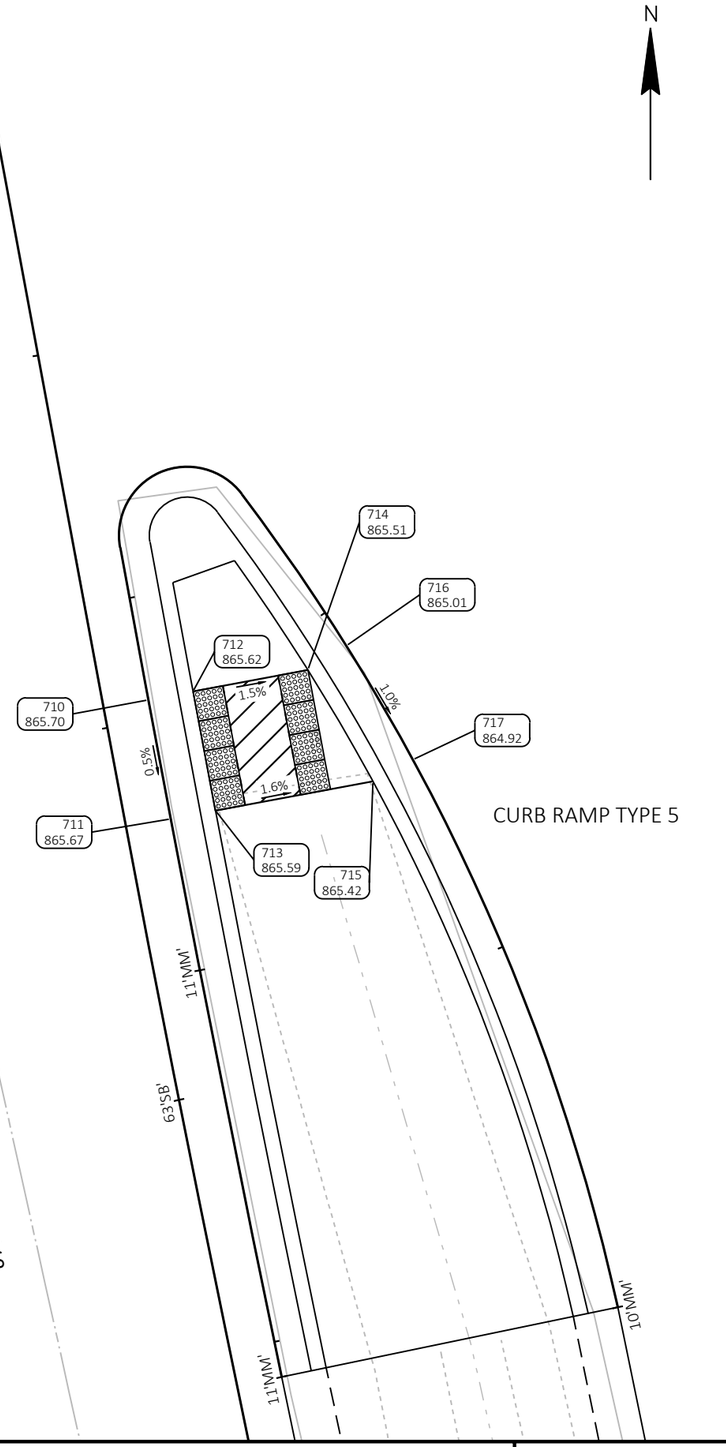
1. CONTRACTOR TO FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST GRADES TO FIT FIELD CONDITION.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CURB RAMP DETAILS - CTH M RIGHT TURN BYPASS LANE	SHEET 45	E

CURB RAMPS-113-M-MEDIAN					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
700	63+23.90 'SB''	53.01' LT	866.21	511696.38	815777.52
701	63+17.44 'SB''	52.13' LT	866.28	511690.04	815779.61
702	1+69.81 'MBP'	12.71' LT	866.38	511698.69	815782.01
703	1+34.74 'MBP'	12.93' LT	866.46	511691.17	815784.69
704	1+43.51 'MBP'	8.31' LT	866.47	511700.69	815787.60
705	1+35.55 'MBP'	8.00' LT	866.53	511692.89	815789.38
706	1+43.60 'MBP'	3.00' LT	866.43	511701.75	815792.80
707	1+35.61 'MBP'	3.00' LT	866.51	511693.89	815794.28
708	1+43.60 'MBP'	0.00'	866.35	511702.30	815795.75
709	1+35.61 'MBP'	0.00'	866.43	511694.45	815797.23
710	63+26.33 'SB''	3.00' RT	865.70	511709.08	815832.12
711	63+18.32 'SB''	3.00' RT	865.67	511701.22	815833.60
712	63+26.33 'SB''	6.00' RT	865.62	511709.63	815835.07
713	63+18.32 'SB''	6.00' RT	865.59	511701.78	815836.55
714	63+26.33 'SB''	13.72' RT	865.51	511711.05	815842.66
715	63+18.27 'SB''	16.57' RT	865.42	511703.71	815846.95
716	63+27.44 'SB''	16.51' RT	865.01	511712.64	815845.20
717	63+19.19 'SB''	19.43' RT	864.92	511705.14	815849.58



CURB RAMP TYPE 3



CURB RAMP TYPE 5

LEGEND:

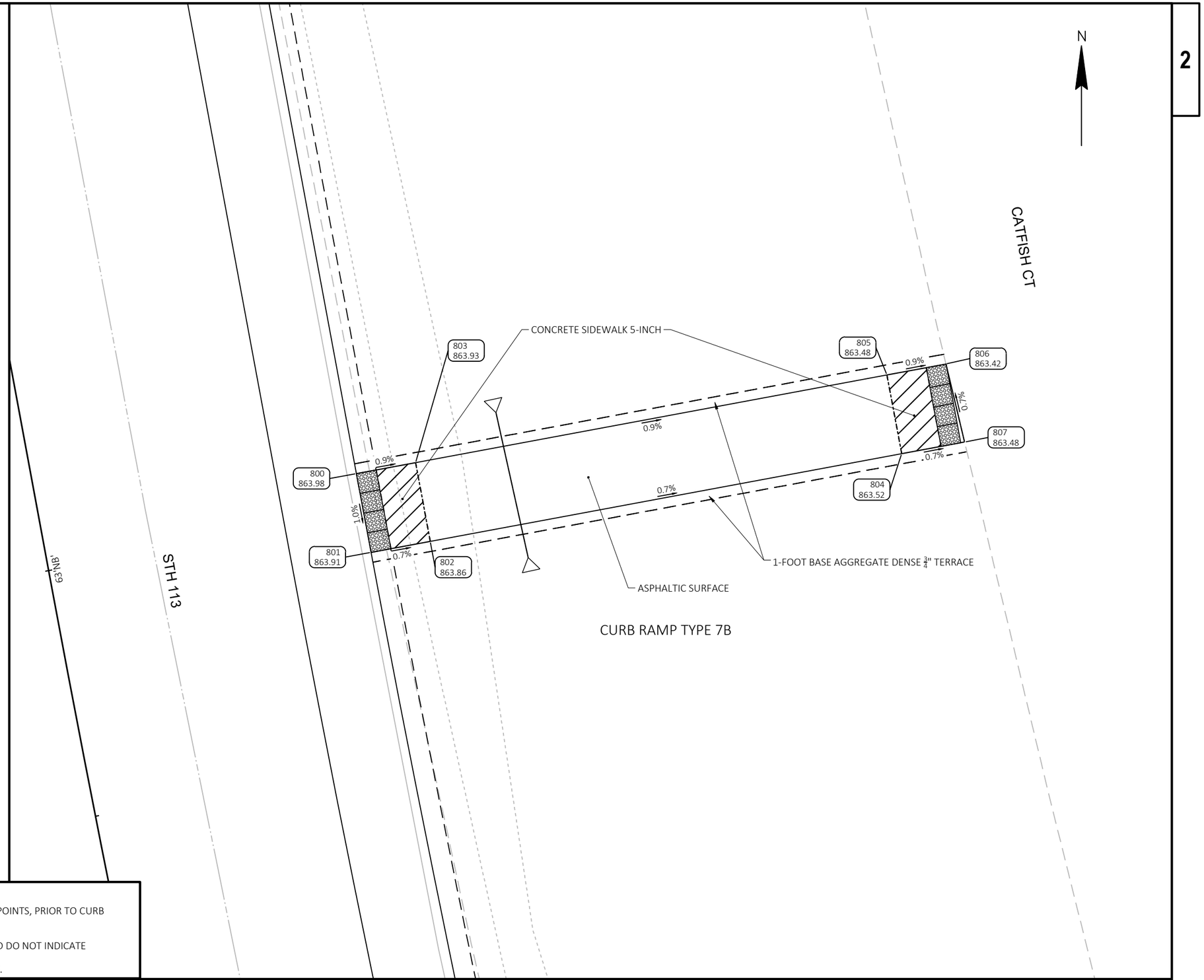
- XXXX — SAWCUT REQ'D
- LANDING AREA
- DETECTABLE WARNING FIELD
- (G) 6:1 GRADED FLARE
- (C) 10:1 CONCRETE FLARE
- PED — CONCRETE CURB PEDESTRIAN
- XXXX YYY.YY — POINT NUMBER & ELEVATION

NOTES:

1. CONTRACTOR TO FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST GRADES TO FIT FIELD CONDITION.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CURB RAMP DETAILS - CTH M INTERSECTION	SHEET 46	E

CURB RAMPS-CATFISH CT					
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
800	63+03.90 'NB''	32.00' RT	863.98	511723.52	815909.59
801	62+95.87 'NB''	32.00' RT	863.91	511715.66	815911.05
802	62+95.87 'NB''	38.02' RT	863.86	511716.76	815916.97
803	63+03.90 'NB''	38.02' RT	863.93	511724.62	815915.51
804	62+95.82 'NB''	85.93' RT	863.52	511725.52	815964.07
805	63+03.91 'NB''	85.91' RT	863.48	511733.38	815962.59
806	63+03.91 'NB''	91.86' RT	863.42	511734.47	815968.44
807	62+95.81 'NB''	92.32' RT	863.48	511726.69	815970.35



LEGEND:

- .XXXX. SAWCUT REQ'D
- LANDING AREA
- DETECTABLE WARNING FIELD
- (G) 6:1 GRADED FLARE
- (C) 10:1 CONCRETE FLARE
- (PED) CONCRETE CURB PEDESTRIAN
- XXXX YYY.YY POINT NUMBER & ELEVATION

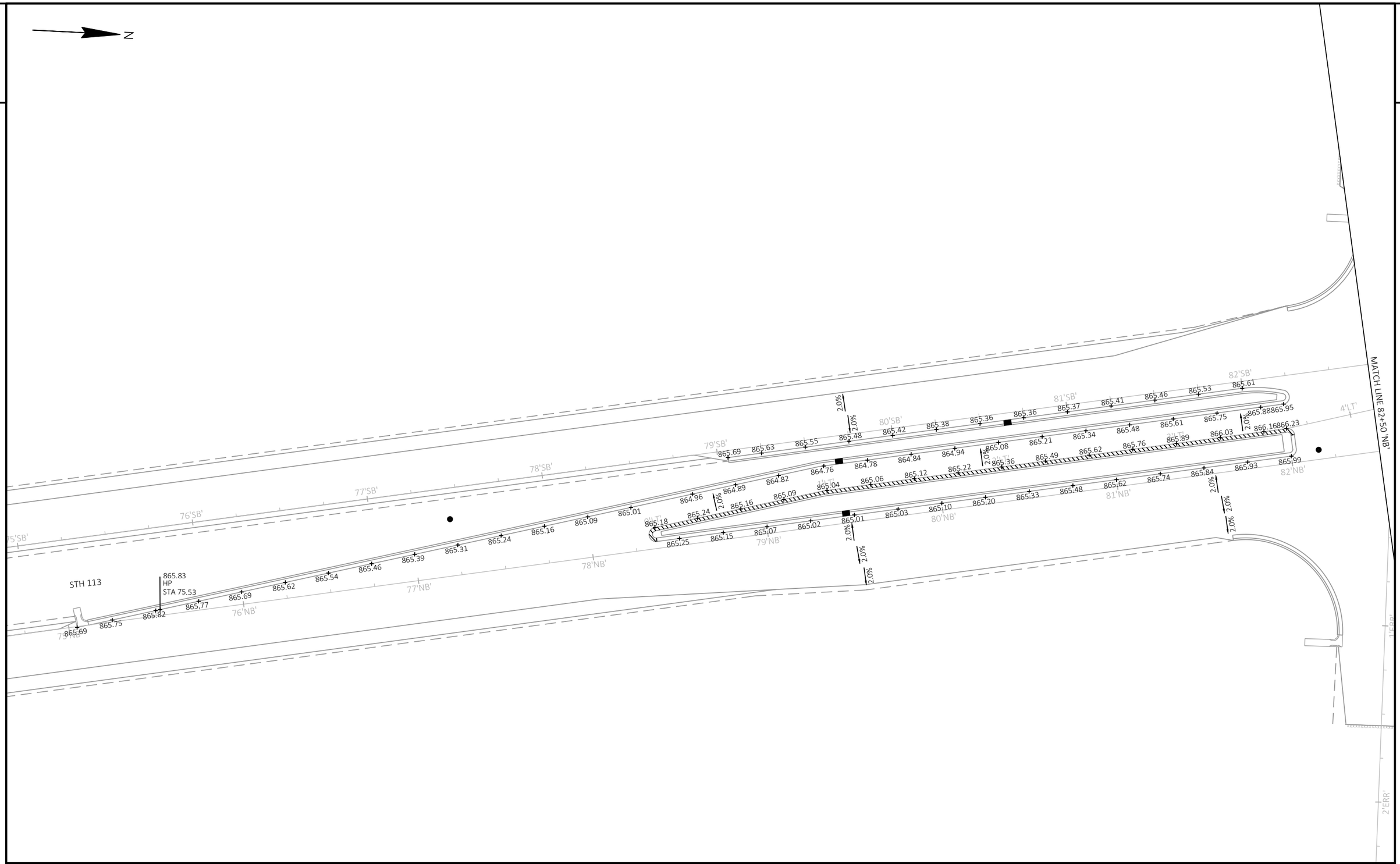
NOTES:

1. CONTRACTOR TO FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE ENGINEER MAY ADJUST GRADES TO FIT FIELD CONDITION.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
4. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CURB RAMP DETAILS - CTH M INTERSECTION	SHEET 47	E

2

N



PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PAVING GRADES - RIVER RD INTERSECTION	SHEET 48	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\021401-PG.DWG
LAYOUT NAME - 021402-pg

PLOT DATE : 10/27/2022 2:33 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N

0'WRR'

1'WRR'

2'WRR'

MATCH LINE 82+50 'NB'

STH 113

83'NB'

84'NB'

85'NB'

86'NB'

87'NB'

88'NB'

89'NB'

90'NB'

91'

84'SB'

85'SB'

86'SB'

87'SB'

88'SB'

89'SB'

90'SB'

5'LT'

6'LT'

7'LT'

8'LT'

865.97 865.96 865.89 865.80 865.72 865.65 865.61 865.61 865.63 865.69 865.78 865.89 866.04 866.11

866.36 866.33 866.24 866.14 866.04 865.94 865.87 865.84 865.88 865.97 866.11 866.23 866.39 866.53 866.66 866.89 866.91 867.06 867.21 867.37 867.53 867.70 867.87 868.04 868.22 868.40 868.58 868.76 868.94

866.64 866.61 866.52 866.42 866.32 866.22 866.15 866.12 866.16 866.25 866.39 866.52 866.66 866.80 866.94 867.11 867.21 867.23

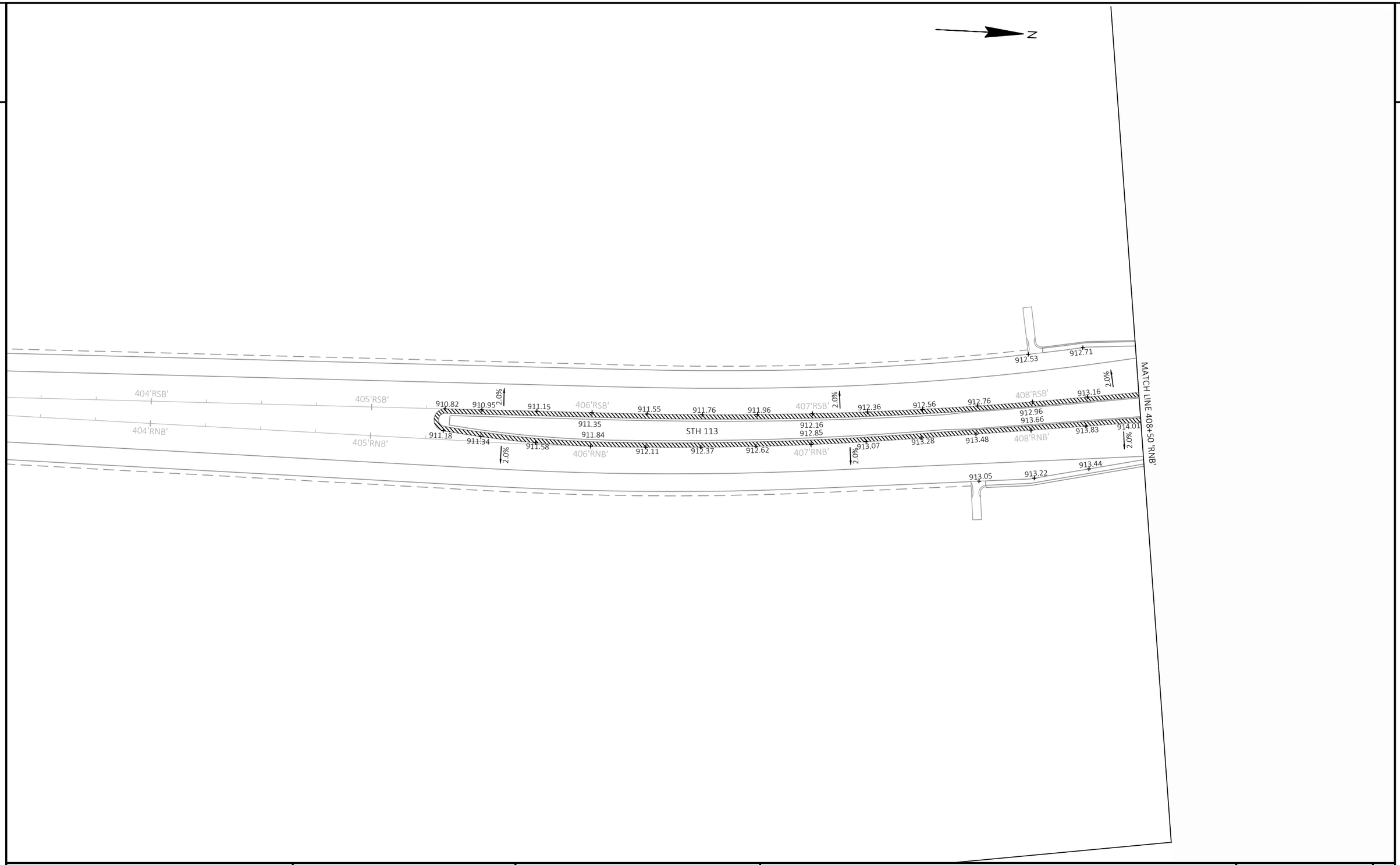
866.04 866.06 866.13 866.21 866.28 866.36 866.43 866.51 866.58 866.66 866.74 866.83 866.92 867.01 867.11

2.0%

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PAVING GRADES - RIVER RD INTERSECTION	SHEET 49	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\021401-PG.DWG
LAYOUT NAME - 021401-pg
PLOT DATE : 10/27/2022 2:33 PM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : Custom
WISDOT/CADDS SHEET 42

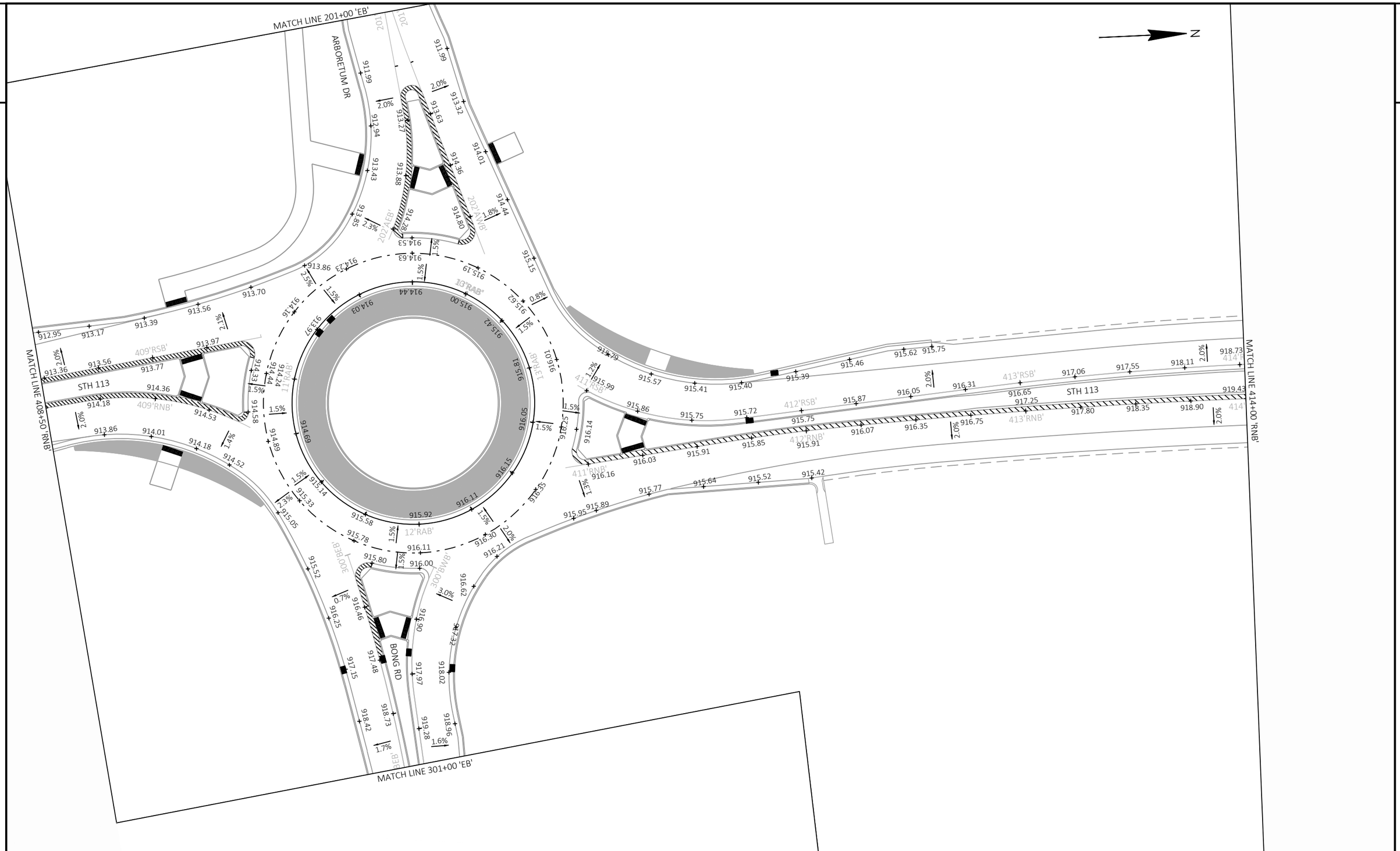
2



PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PAVING GRADES - ROUNDABOUT	SHEET 50	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\021401-PG.DWG
LAYOUT NAME - 021403-pg

PLOT DATE : 10/27/2022 2:33 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:40 FT



PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PAVING GRADES - ROUNDABOUT	SHEET 51	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\021401-PG.DWG
LAYOUT NAME - 021404-pg

PLOT DATE : 10/27/2022 2:33 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

MATCH LINE 414+00 'RNB'

SB 1.9%

919.33 919.89 920.43 1.9%

415'RSB' 416'RSB' 417'RSB' 418'RSB' 419'RSB'

921.07

920.95

921.26

921.33

STH 113

RNB' 919.94 920.41 920.85 2.0% 2.0%

415'RNB' 416'RNB' 417'RNB' 418'RNB' 419'RNB'

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PAVING GRADES - ROUNDABOUT	SHEET 52	E

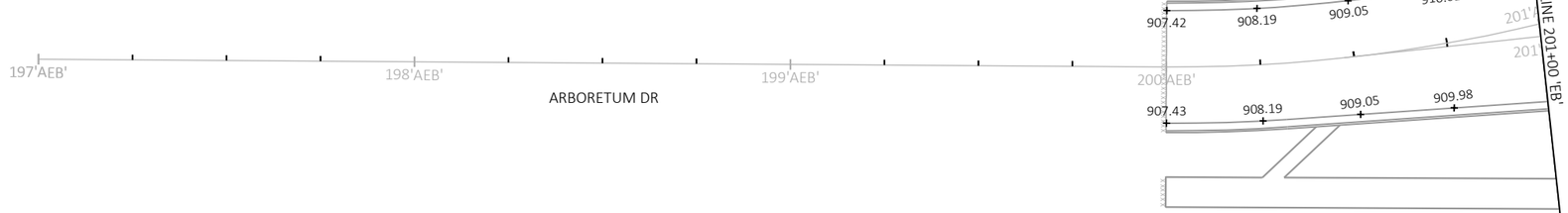
FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\021401-PG.DWG
LAYOUT NAME - 021405-pg

PLOT DATE : 10/27/2022 2:33 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N



PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PAVING GRADES - ROUNDABOUT	SHEET 53	E

2

N

MATCH LINE 301+00 'EB'

920.49 1.5% 922.29 924.29 1.7% 924.05 928.48 930.50 932.52 934.49 936.48 938.40 940.08

301'BWB' 922.59 924.56 926.56 302'BWB' 303'BWB' 304'BWB' 304'BWB'

920.82

BEB' 921.96 1.7% 923.92 925.92 1.9% 302'BEB' 303'BEB' 304'BEB' 305'BEB'

921.70 923.66 925.66 927.67 929.69 931.69 933.68 935.67 937.66 939.57 940.71

BONG RD

306'BEB'

307'BE

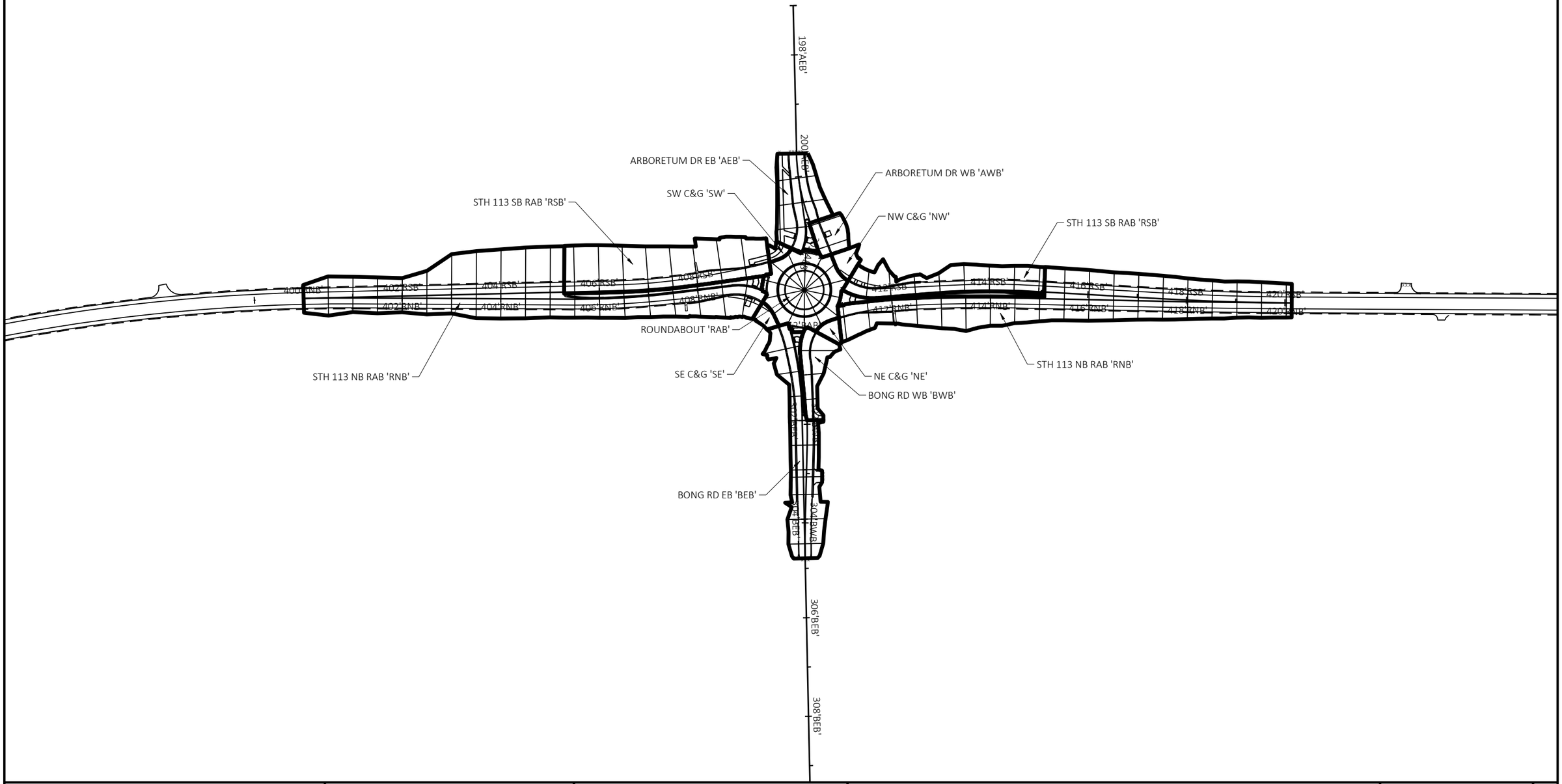
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PAVING GRADES - ROUNDABOUT	SHEET 54	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\021401-PG.DWG
LAYOUT NAME - 021407-pg

PLOT DATE : 10/27/2022 2:33 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N



PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	ROUNDABOUT CROSS SECTION MATCHLINES	SHEET 55	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\021801-XM.DWG
LAYOUT NAME - 021801-xm
PLOT DATE : 10/27/2022 2:41 PM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42

2

2

STH 113

20'SB' 22'SB' 24'SB' 26'SB'

20'NB' 22'NB' 24'NB' 26'NB'

STH 113

DEBS RD

N

KENNEDY DR

2%D'

N

100'SB'

96'SB' 98'SB'

STH 113

96'NB' 98'NB'

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE B
- SILT FENCE
- RIPRAP MEDIUM
- SLOPE INTERCEPTS
- INLET PROTECTION (TYPES A & C UNLESS OTHERWISE NOTED)
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- TEMPORARY STONE DITCH CHECKS
- SURFACE WATER FLOW

NOTE:

PLACE MULCH IN AREAS NOT IDENTIFIED BY EROSION MAT AND AS INDICATED ON THE FINISHED TYPICAL SECTIONS

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	EROSION CONTROL	SHEET 56	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022001-ec

PLOT DATE : 10/31/2022 1:14 PM PLOT BY : NATHAN COOK PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

10'MEB'

22'MWB'

CTH M

11'MEB'

62'SB'

64'SB'

66'SB'

62'NB'

64'NB'

66'NB'

STH 113

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE B
- SILT FENCE
- RIPRAP MEDIUM
- SLOPE INTERCEPTS
- INLET PROTECTION (TYPES A & C UNLESS OTHERWISE NOTED)
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- TEMPORARY STONE DITCH CHECKS
- SURFACE WATER FLOW

NOTE:

PLACE MULCH IN AREAS NOT IDENTIFIED BY EROSION MAT AND AS INDICATED ON THE FINISHED TYPICAL SECTIONS

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	EROSION CONTROL	SHEET 57	E

2

2

N

76'SB'

78'SB'

80'SB'

82'SB'

76'NB'

78'NB'

80'NB'

82'NB'

MATCHLINE STA 82+50 'NB'

STH 113

RIVER RD

RIVER RD

N

STH 113

84'SB'

86'SB'

88'SB'

90'SB'

84'NB'

86'NB'

88'NB'

MATCHLINE STA 82+50 'NB'

RIVER RD

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE B
- SILT FENCE
- RIPRAP MEDIUM
- SLOPE INTERCEPTS
- INLET PROTECTION (TYPES A & C UNLESS OTHERWISE NOTED)
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- TEMPORARY STONE DITCH CHECKS
- SURFACE WATER FLOW

NOTE:

PLACE MULCH IN AREAS NOT IDENTIFIED BY EROSION MAT AND AS INDICATED ON THE FINISHED TYPICAL SECTIONS

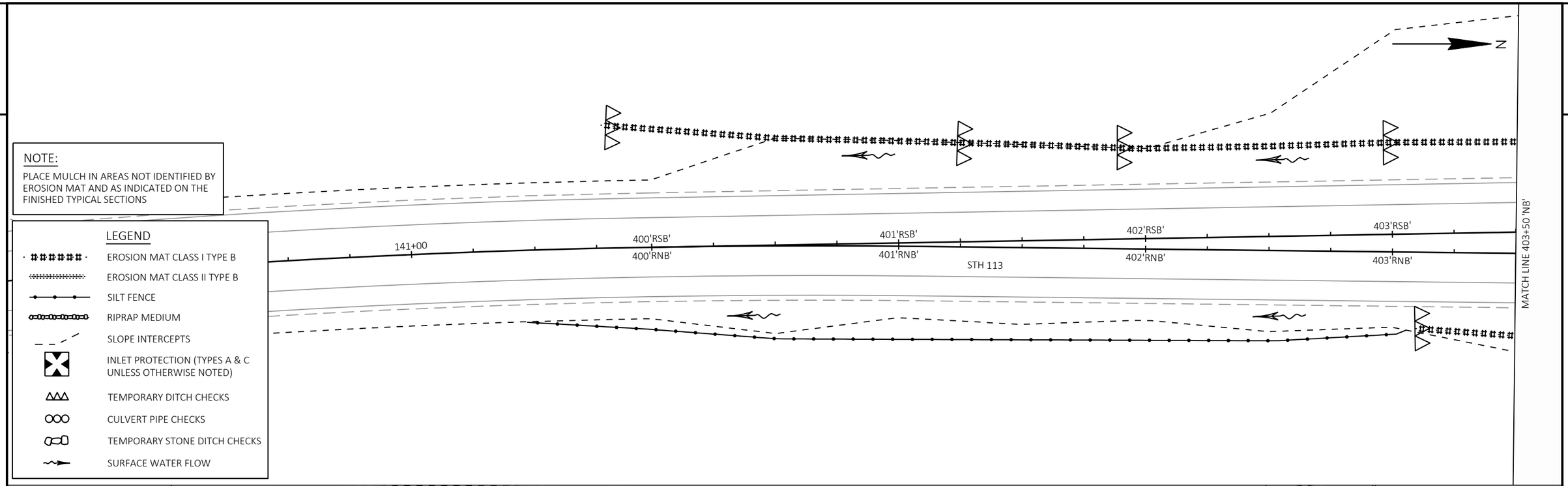
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	EROSION CONTROL	SHEET 58	E

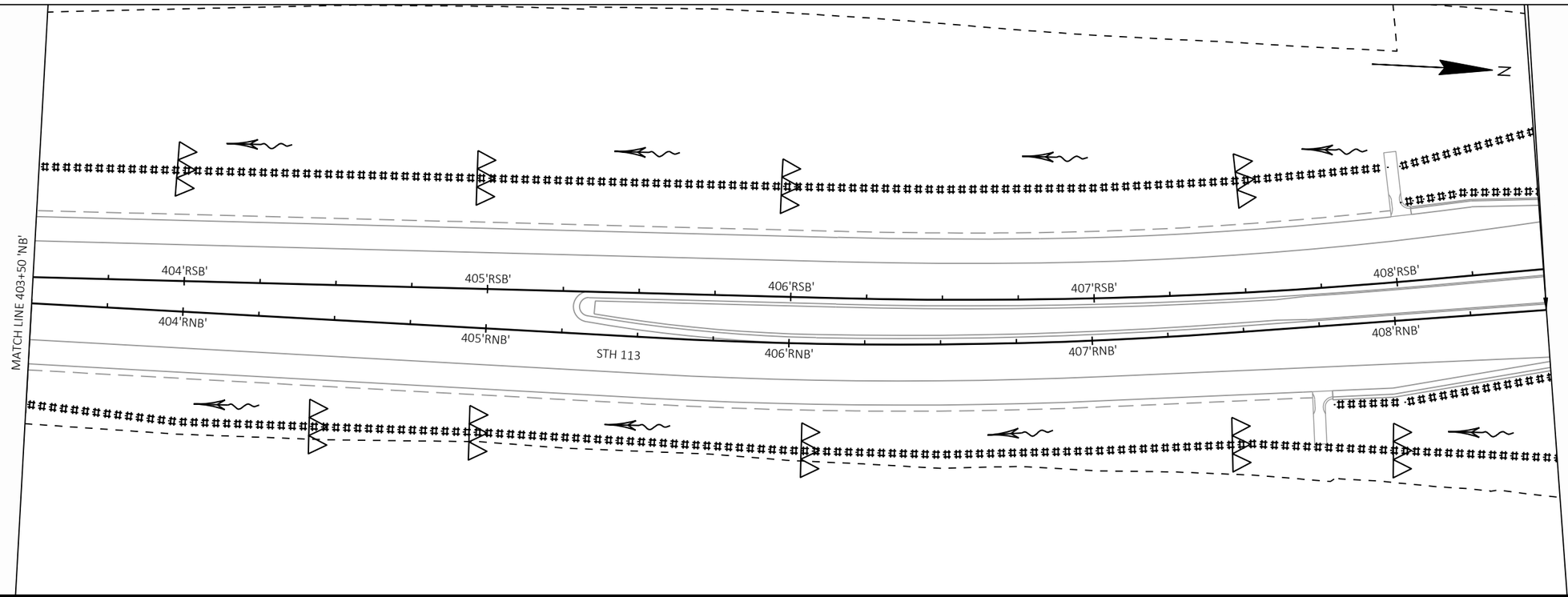
NOTE:

PLACE MULCH IN AREAS NOT IDENTIFIED BY EROSION MAT AND AS INDICATED ON THE FINISHED TYPICAL SECTIONS

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE B
- SILT FENCE
- RIPRAP MEDIUM
- SLOPE INTERCEPTS
- INLET PROTECTION (TYPES A & C UNLESS OTHERWISE NOTED)
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- TEMPORARY STONE DITCH CHECKS
- SURFACE WATER FLOW





2

N

MATCH LINE 201+00 'EB'

201

ARBORETUM DR

202'AEB'

202'AWB'

409'RSB'

409'RNB'

MATCH LINE 408+50 'NB'

STH 113

11+00

13+00

12+00

411'RSB'

411'RNB'

412'RSB'

412'RNB'

413'RSB'

413'RNB'

414'RSB'

414'RNB'

STH 113

MATCH LINE 415+50 'NB'

300'BEB'

300'BWB'

BONG RD

BEB'

MATCH LINE 301+00 'EB'

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE B
- SILT FENCE
- RIPRAP MEDIUM
- SLOPE INTERCEPTS
- INLET PROTECTION (TYPES A & C UNLESS OTHERWISE NOTED)
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- TEMPORARY STONE DITCH CHECKS
- SURFACE WATER FLOW

NOTE:

PLACE MULCH IN AREAS NOT IDENTIFIED BY EROSION MAT AND AS INDICATED ON THE FINISHED TYPICAL SECTIONS

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	EROSION CONTROL	SHEET 60	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\022001-EC.DWG
LAYOUT NAME - 022005-ec

PLOT DATE : 10/31/2022 1:14 PM PLOT BY : NATHAN COOK PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

MATCH LINE 415+50 NB'

415'RSB'
415'RNB'
416'RSB'
416'RNB'
417'RSB'
417'RNB'
418'RSB'
418'RNB'
419'RSB'
419'RNB'
420'RSB'
420'RNB'

STH 113

STH 113

NOTE:

PLACE MULCH IN AREAS NOT IDENTIFIED BY EROSION MAT AND AS INDICATED ON THE FINISHED TYPICAL SECTIONS

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE B
- SILT FENCE
- RIPRAP MEDIUM
- SLOPE INTERCEPTS
- INLET PROTECTION (TYPES A & C UNLESS OTHERWISE NOTED)
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- TEMPORARY STONE DITCH CHECKS
- SURFACE WATER FLOW

2

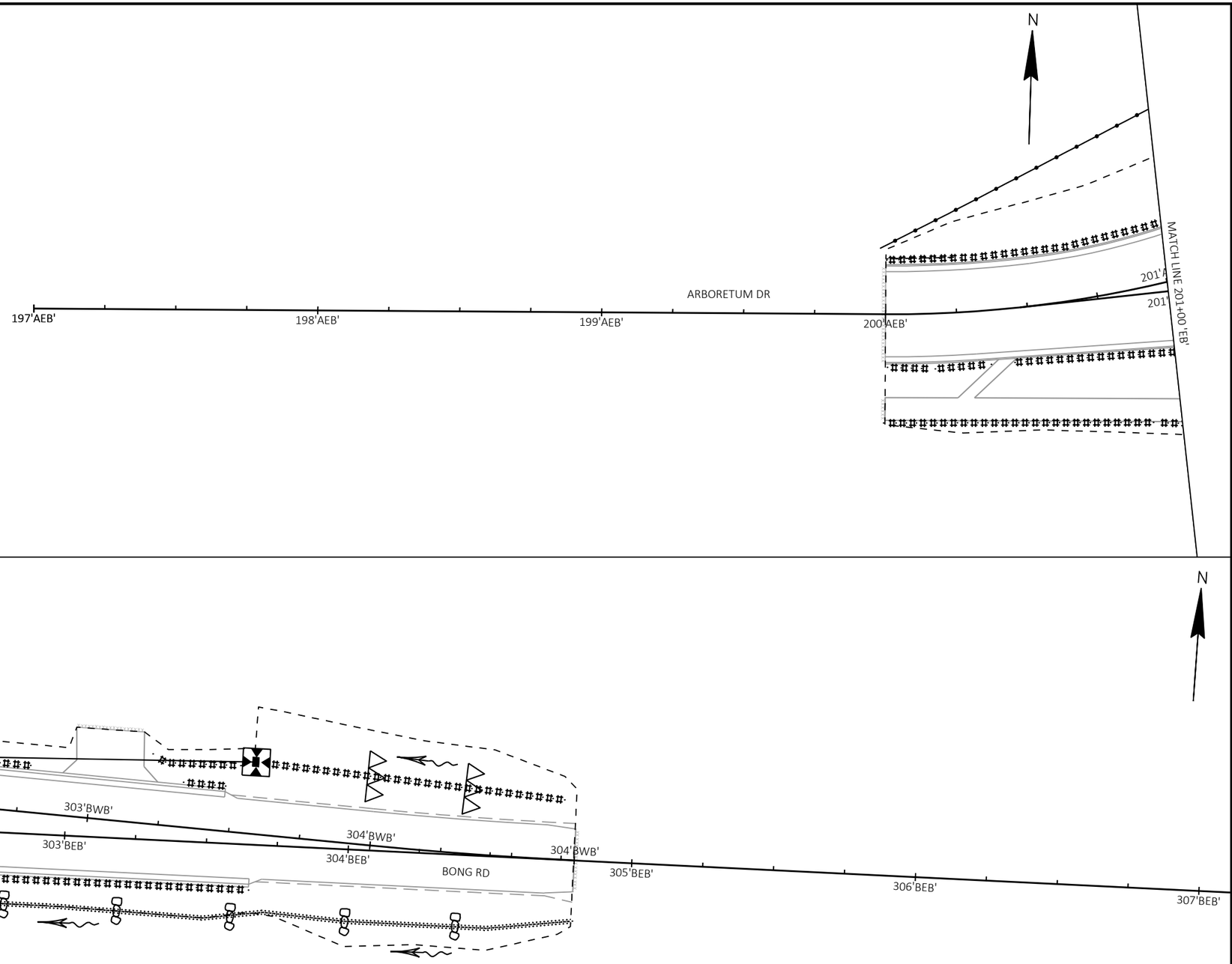
2

NOTE:

PLACE MULCH IN AREAS NOT IDENTIFIED BY EROSION MAT AND AS INDICATED ON THE FINISHED TYPICAL SECTIONS

LEGEND

- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE B
- SILT FENCE
- RIPRAP MEDIUM
- SLOPE INTERCEPTS
- INLET PROTECTION (TYPES A & C UNLESS OTHERWISE NOTED)
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- TEMPORARY STONE DITCH CHECKS
- SURFACE WATER FLOW



PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	EROSION CONTROL	SHEET 62	E

2

N

WESTPORT SEWER (SAN)

MH-10.1
STA 77+45'SB', 17.7' RT
MANHOLES 4-J

REMOVING EXISTING STORM SEWER (18-INCH)(TYP.)

STH 113

IN-10.2
STA 79+68'SB', 14.5' RT
INLETS 4-HM-S

IN-10.8
STA 80+66'SB', 5.5' RT
INLETS 2x3-HM-S

STA 82+16'NB', 5.5' LT
MANHOLES 4-J
MH-10.4

77'SB' 78'SB' 79'SB' 80'SB' 81'SB' 82'SB'

TIE INTO EXISTING STORM SEWER PIPE
CONCRETE COLLAR REQUIRED

77'NB' 78'NB' 79'NB' 80'NB' 81'NB' 82'NB'

REMOVING MANHOLES

REMOVING INLETS

IN-10.3
STA 79+45'NB', 5.5' LT
INLETS 4-HM-S

REMOVING EXISTING STORM SEWER (18-INCH)(TYP.)

REMOVING MANHOLES

CAP

MGE (ELEC)

MGE (GAS)

TDS (FO)

CAUTION

MATCHLINE - 82+25NB

EXISTING 18-INCH STORM SEWER AND APRON ENDWALL TO REMAIN

EVERSTREAM (FO, APPROX.)

870
865
860
855

MH-10.1
864.16

IN-10.2
864.74

IN-10.3
864.99

MH-10.4
866.17

223 LF-SSPRC CLASS IV 18-INCH @ 0.90%

270 LF-SSPRC CLASS IV 15-INCH @ 0.30%

(E)858.90
(N)858.90

13 LF-SSPRC CLASS IV 18-INCH @ 1.00%

TIE INTO EXISTING STORM SEWER PIPE
INVERT ELEV. 858.78
CONCRETE COLLAR REQUIRED

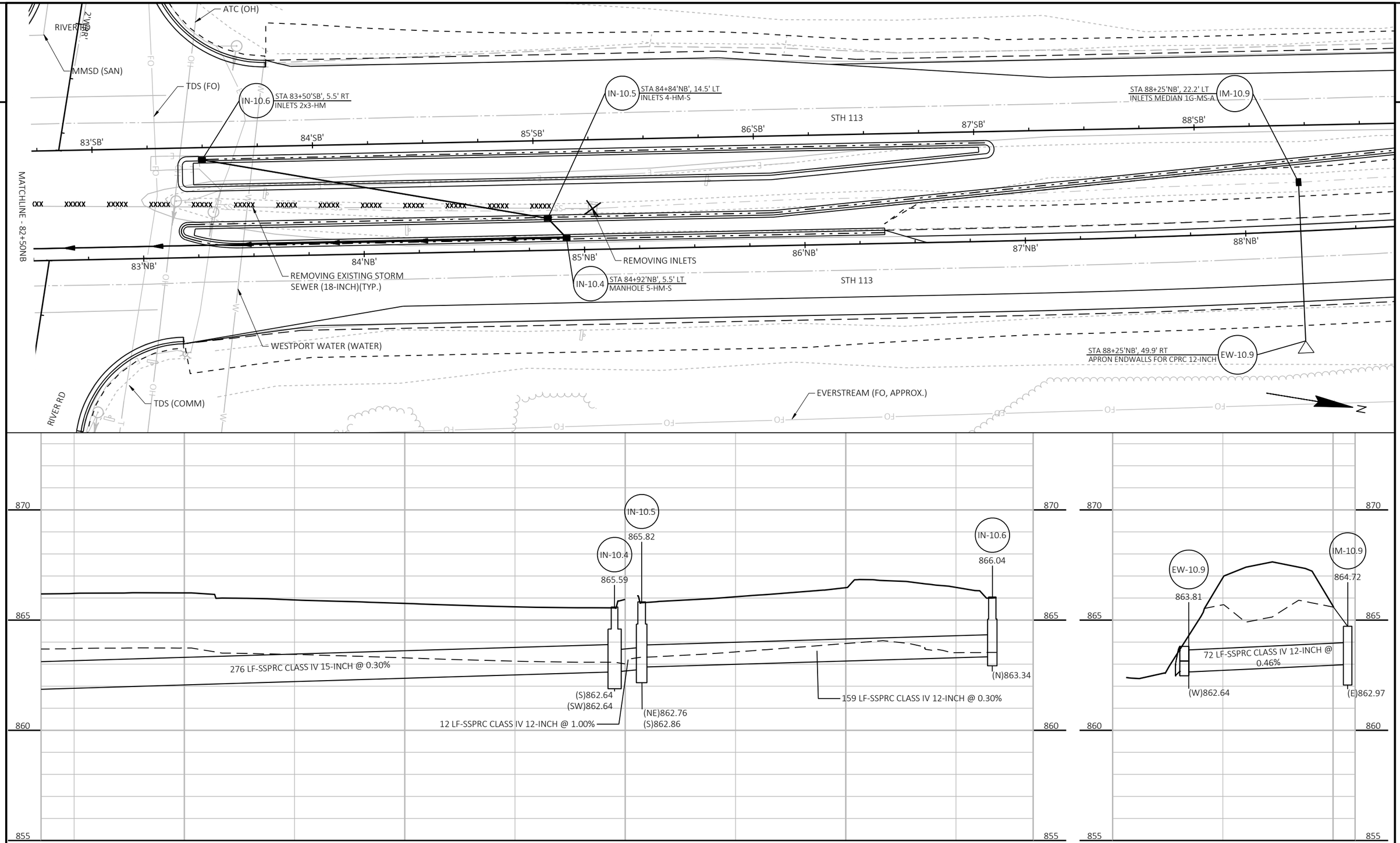
(S)860.91
(E)860.91
(N)861.41

(W)861.00
(N)861.00

30 LF-SSPRC CLASS IV 18-INCH @ 0.30%

(S)861.81
(N)861.81

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	STORM SEWER	SHEET 63	E



PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	STORM SEWER	SHEET 64	E

2

2

N

WESTPORT SEWER (SAN)

MH-10.1 STA 77+45'SB', 17.7' RT MANHOLES 4-J

REMOVING EXISTING STORM SEWER (18-INCH)(TYP.)

STH 113

IN-10.2 STA 79+68'SB', 14.5' RT INLETS 4-HM-S

IN-10.8 STA 80+66'SB', 5.5' RT INLETS 2x3-HM-S

STA 82+16'NB', 5.5' LT MANHOLES 4-J

MH-10.4

77'SB' 78'SB' 79'SB' 80'SB' 81'SB' 82'SB'

TIE INTO EXISTING STORM SEWER PIPE
CONCRETE COLLAR REQUIRED

77'NB' 78'NB' 79'NB' 80'NB' 81'NB' 82'NB'

REMOVING INLETS

REMOVING MANHOLES

STH 113

IN-10.3 STA 79+45'NB', 5.5' LT INLETS 4-HM-S

REMOVING EXISTING STORM SEWER (18-INCH)(TYP.)

REMOVING MANHOLES

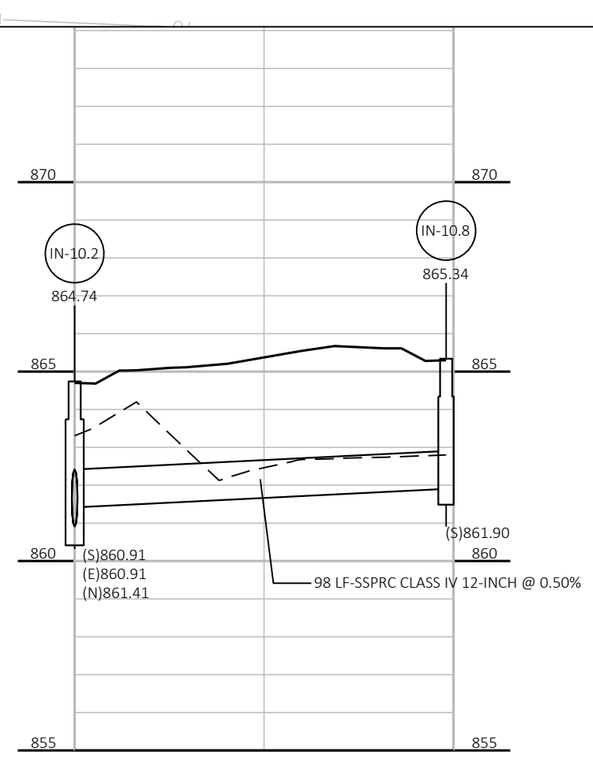
MGE (ELEC)

MGE (GAS)

TDS (FO)

EXISTING 18-INCH STORM SEWER AND APRON ENDWALL TO REMAIN

EVERSTREAM (FO, APPROX.)

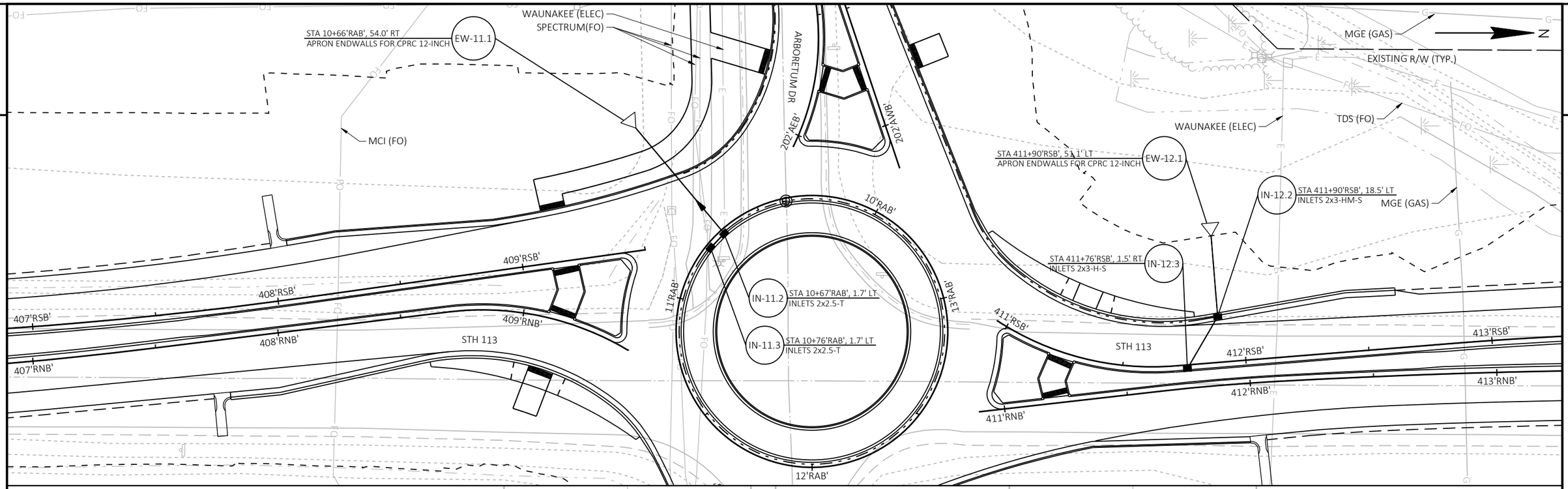


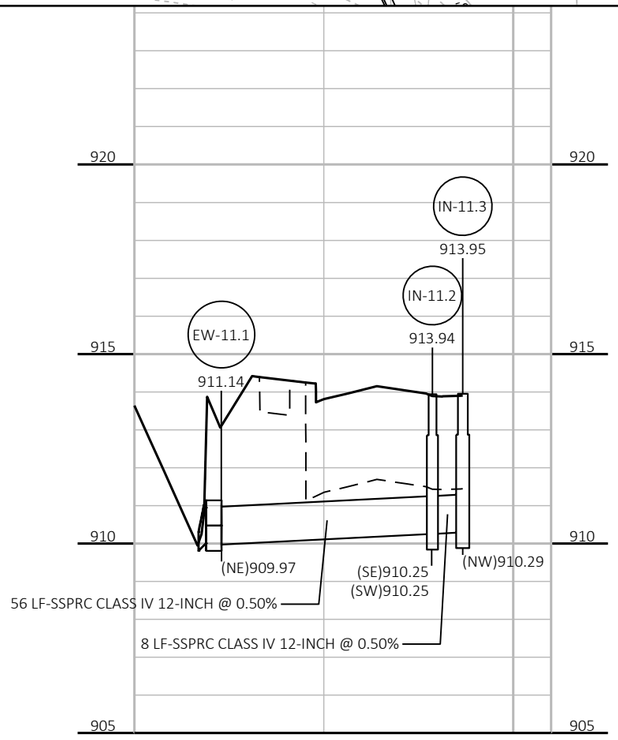
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	STORM SEWER	SHEET 65	E

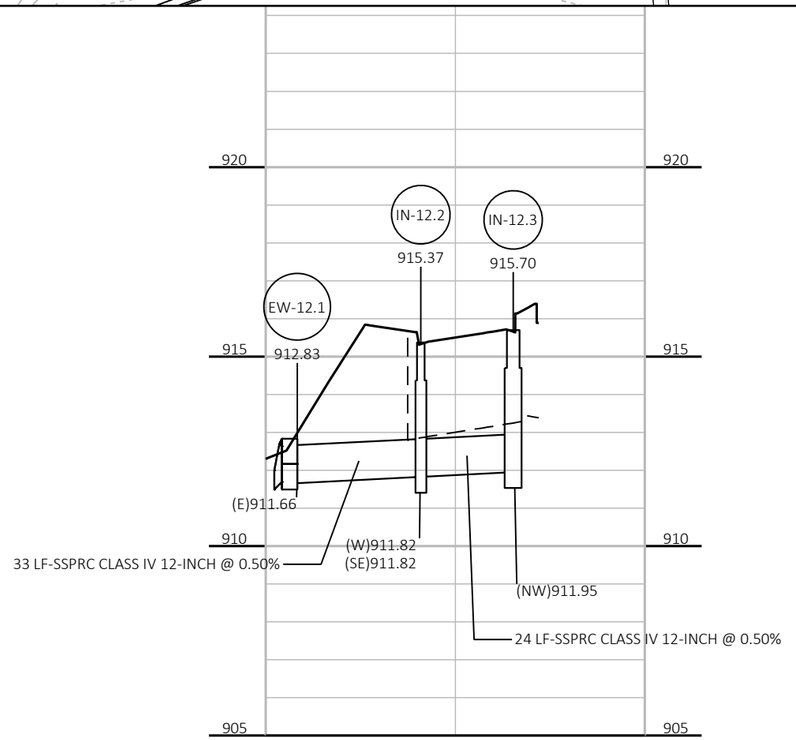
FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022503-ss

PLOT DATE : 10/31/2022 8:04 AM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:40 FT

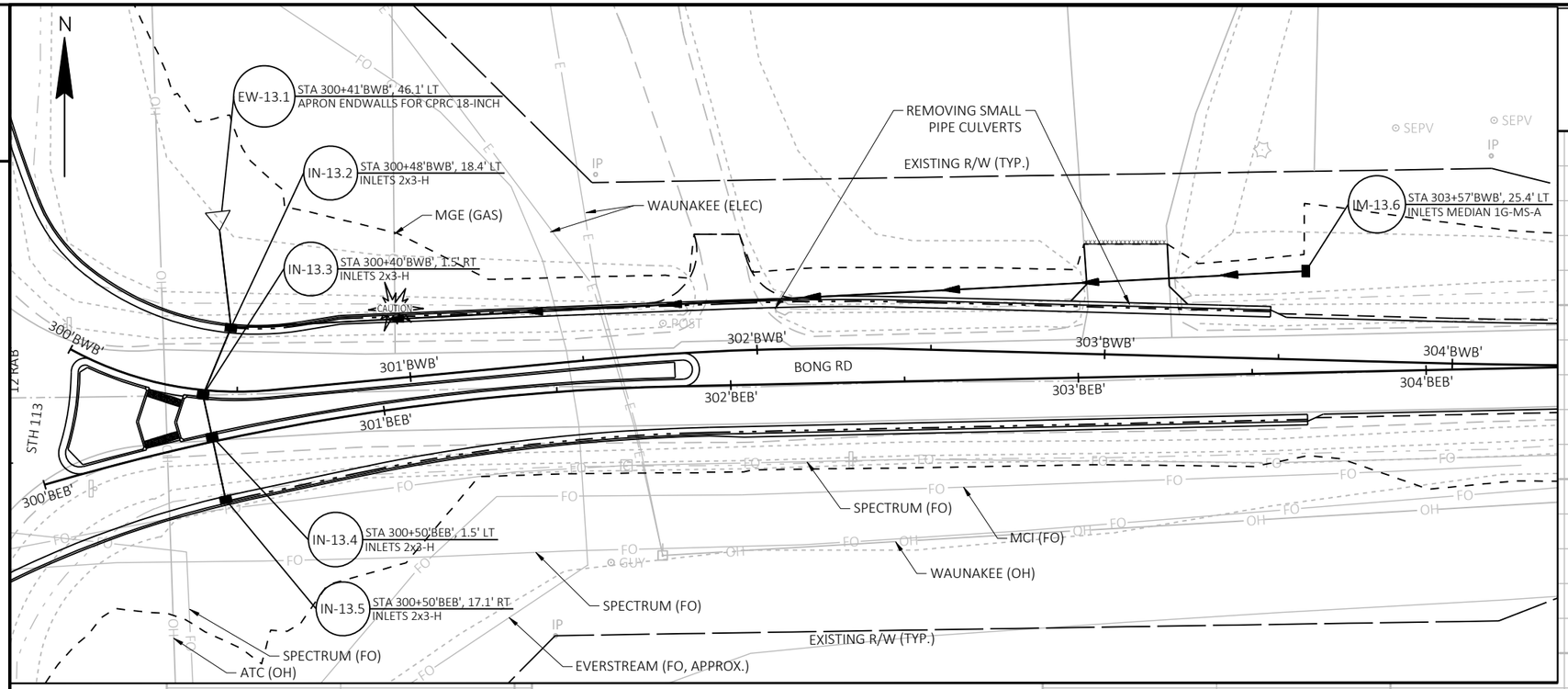
WISDOT/CADDS SHEET 41

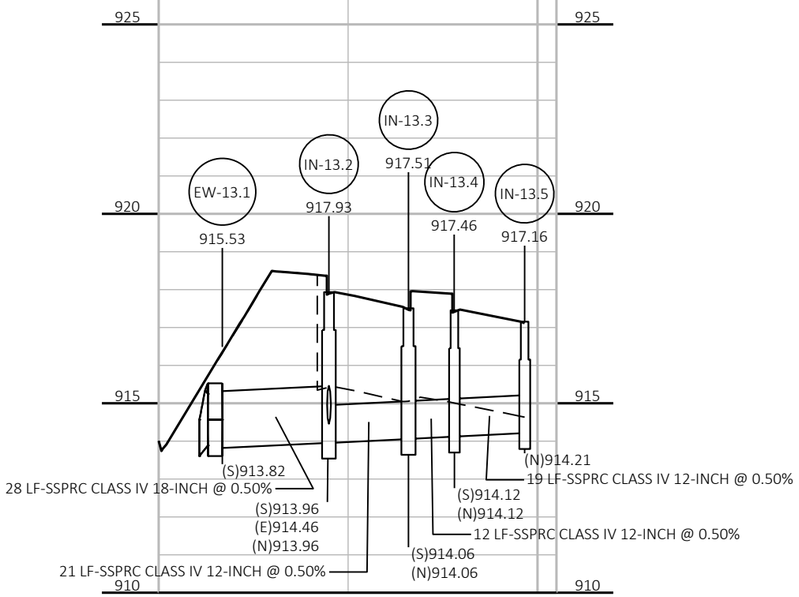


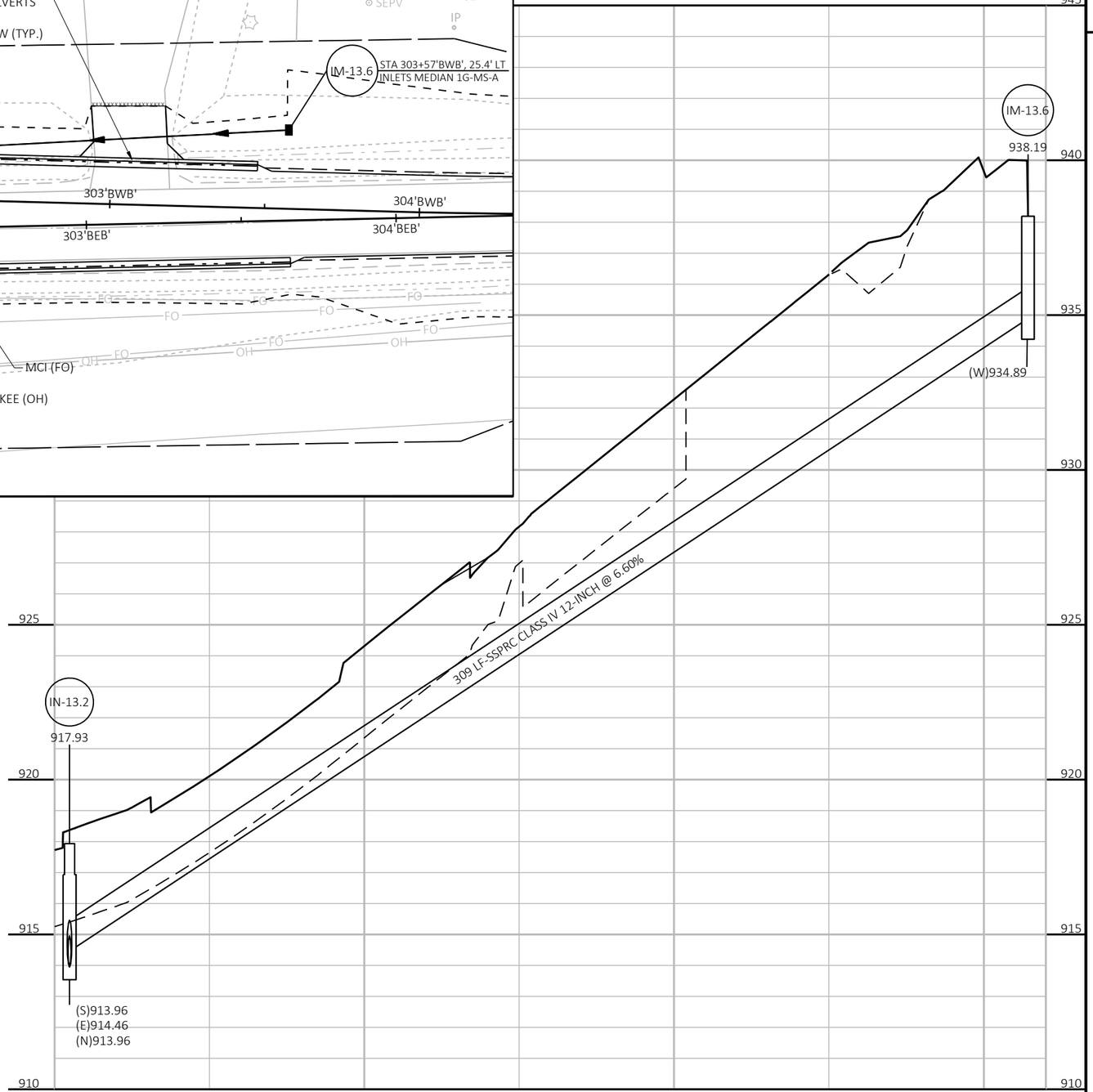




PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	STORM SEWER	SHEET 66	E





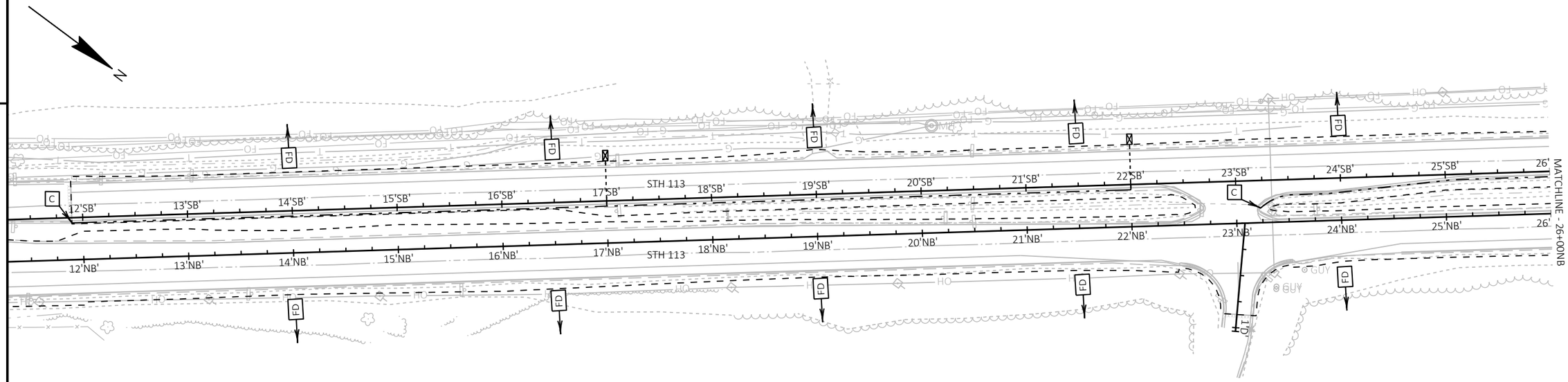


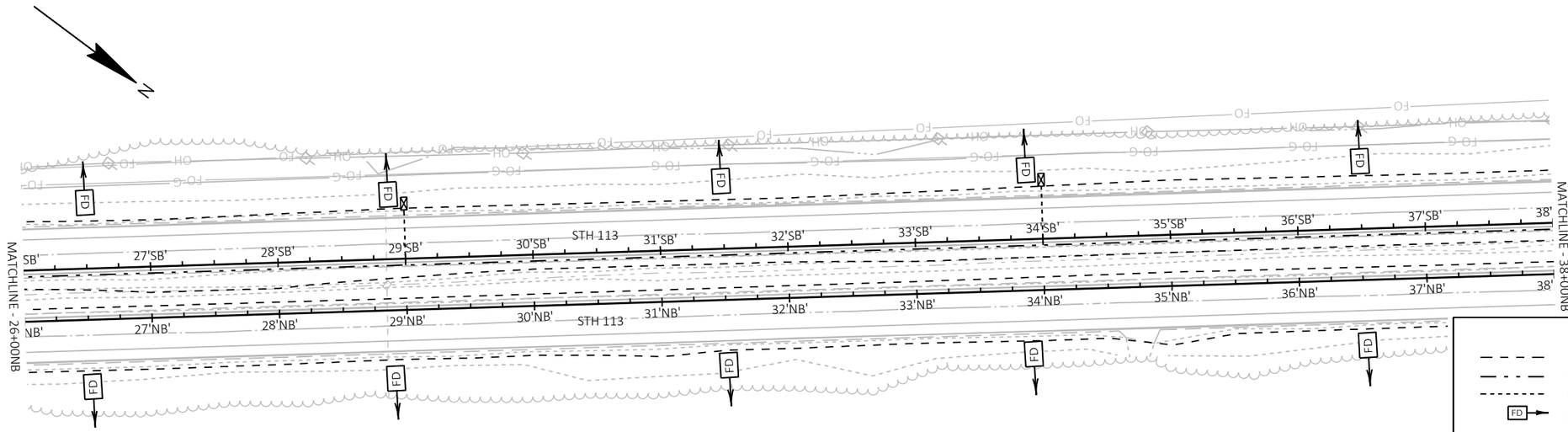
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	STORM SEWER	SHEET 67	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022505-ss
PLOT DATE : 10/31/2022 8:05 AM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 41

2





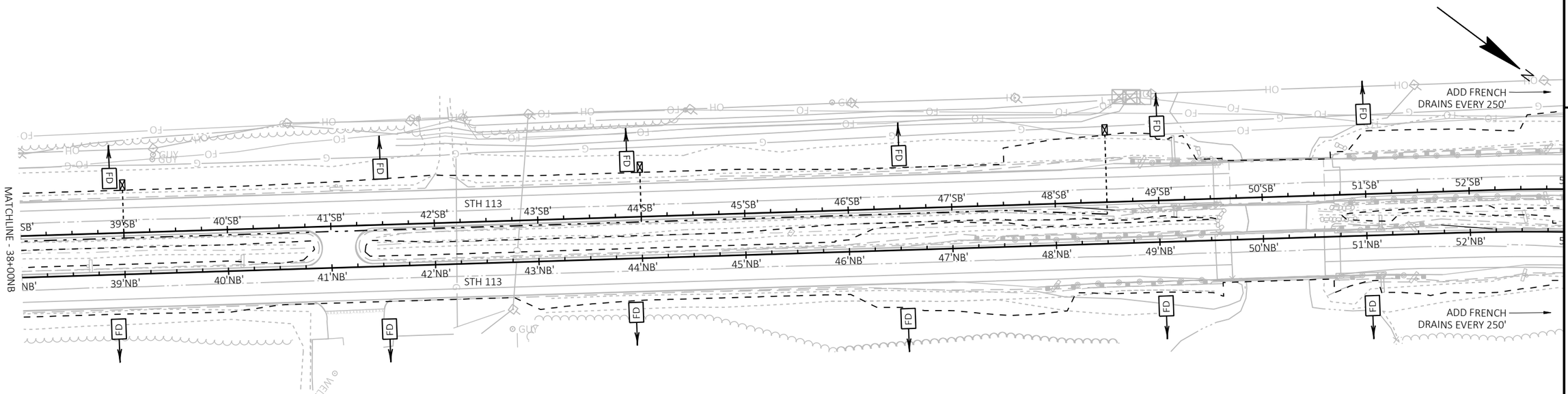
LEGEND

- SLOPE INTERCEPT
- PIPE UNDERDRAIN 6-INCH
- PIPE UNDERDRAIN UNPERFORATED 6-INCH
- FD — SUGGESTED LOCATION OF FRENCH DRAIN (USED FOR QUANTITY COMPUTATIONS. EXACT NUMBER AND LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER)
- C — CAPPED END OF PIPE UNDERDRAIN (INCIDENTAL TO PIPE UNDERDRAIN ITEMS)
- TAP CONNECTION TO INLET OR MANHOLE USING PIPE UNDERDRAIN 6-INCH (INCIDENTAL TO PIPE UNDERDRAIN ITEMS) (SEE CONSTRUCTION DETAILS FOR PIPE UNDERDRAIN)
- U.E. 881.71' +/- — ELEVATION OF UNDERDRAIN TAP CONNECTION (INCIDENTAL TO PIPE UNDERDRAIN ITEMS) (SEE CONSTRUCTION DETAILS FOR PIPE UNDERDRAIN)
- APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	STORM SEWER - UNDERDRAIN AND FRENCH DRAINS	SHEET 68	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022506-ss
PLOT DATE : 10/31/2022 8:05 AM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 41

2



LEGEND

- SLOPE INTERCEPT
- PIPE UNDERDRAIN 6-INCH
- PIPE UNDERDRAIN UNPERFORATED 6-INCH
- FD — SUGGESTED LOCATION OF FRENCH DRAIN (USED FOR QUANTITY COMPUTATIONS. EXACT NUMBER AND LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER)
- C — CAPPED END OF PIPE UNDERDRAIN (INCIDENTAL TO PIPE UNDERDRAIN ITEMS)
- TAP CONNECTION TO INLET OR MANHOLE USING PIPE UNDERDRAIN 6-INCH (INCIDENTAL TO PIPE UNDERDRAIN ITEMS) (SEE CONSTRUCTION DETAILS FOR PIPE UNDERDRAIN)
- U.E. 881.71' +/- — ELEVATION OF UNDERDRAIN TAP CONNECTION (INCIDENTAL TO PIPE UNDERDRAIN ITEMS) (SEE CONSTRUCTION DETAILS FOR PIPE UNDERDRAIN)
- APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	STORM SEWER - UNDERDRAIN AND FRENCH DRAINS	SHEET 69	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022507-ss
PLOT DATE : 10/31/2022 8:05 AM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 41

2

ADD FRENCH
DRAINS EVERY 250'

FD

STH 113

55'SB' 56'SB' 57'SB' 58'SB' 59'SB' 60'SB' 61'SB' 62'SB'

55'NB' 56'NB' 57'NB' 58'NB' 59'NB' 60'NB' 61'NB' 62'

MATCHLINE - 62+00NB

FD

ADD FRENCH
DRAINS EVERY 250'

N

CTH M

11'MEB'

11'MEB'

22'MW&I

STH 113

63'SB' 64'SB' 65'SB' 66'SB' 67'SB' 68'SB' 69'SB'

MATCHLINE - 62+00NB

NB' 63'NB' 64'NB' 65'NB' 66'NB' 67'NB'

C

FD

FD

ADD FRENCH
DRAINS EVERY 250'

ADD FRENCH
DRAINS EVERY 250'

LEGEND

- SLOPE INTERCEPT
- PIPE UNDERDRAIN 6-INCH
- PIPE UNDERDRAIN UNPERFORATED 6-INCH
- FD → SUGGESTED LOCATION OF FRENCH DRAIN (USED FOR QUANTITY COMPUTATIONS. EXACT NUMBER AND LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER)
- C → CAPPED END OF PIPE UNDERDRAIN (INCIDENTAL TO PIPE UNDERDRAIN ITEMS)
- TAP CONNECTION TO INLET OR MANHOLE USING PIPE UNDERDRAIN 6-INCH (INCIDENTAL TO PIPE UNDERDRAIN ITEMS) (SEE CONSTRUCTION DETAILS FOR PIPE UNDERDRAIN)
- U.E. 881.71' +/- ELEVATION OF UNDERDRAIN TAP CONNECTION (INCIDENTAL TO PIPE UNDERDRAIN ITEMS) (SEE CONSTRUCTION DETAILS FOR PIPE UNDERDRAIN)
- APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	STORM SEWER - UNDERDRAIN AND FRENCH DRAINS	SHEET 70	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022508-ss

PLOT DATE : 10/31/2022 8:05 AM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N

ADD FRENCH DRAINS EVERY 250'

STH 113

76'SB' 77'SB' 78'SB' 79'SB' 80'SB' 81'SB' 82'SB'

75'NB' 76'NB' 77'NB' 78'NB' 79'NB' 80'NB' 81'NB' 82'NB'

U.E. 861.2' +/-

U.E. 861.9' +/-

U.E. 861.49' +/-

MATCHLINE - 82+25NB

ADD FRENCH DRAINS EVERY 250'

RIVER RD

RIVER RD

RIVER RD

U.E. 863.32' +/-

U.E. 862.85' +/-

U.E. 862.76' +/-

U.E. 862.64' +/-

83'SB' 84'SB' 85'SB' 86'SB' 87'SB' 88'SB' 89'SB'

83'NB' 84'NB' 85'NB' 86'NB' 87'NB' 88'NB'

STH 113

MATCHLINE - 82+25NB

MATCHLINE - 89+00NB

N

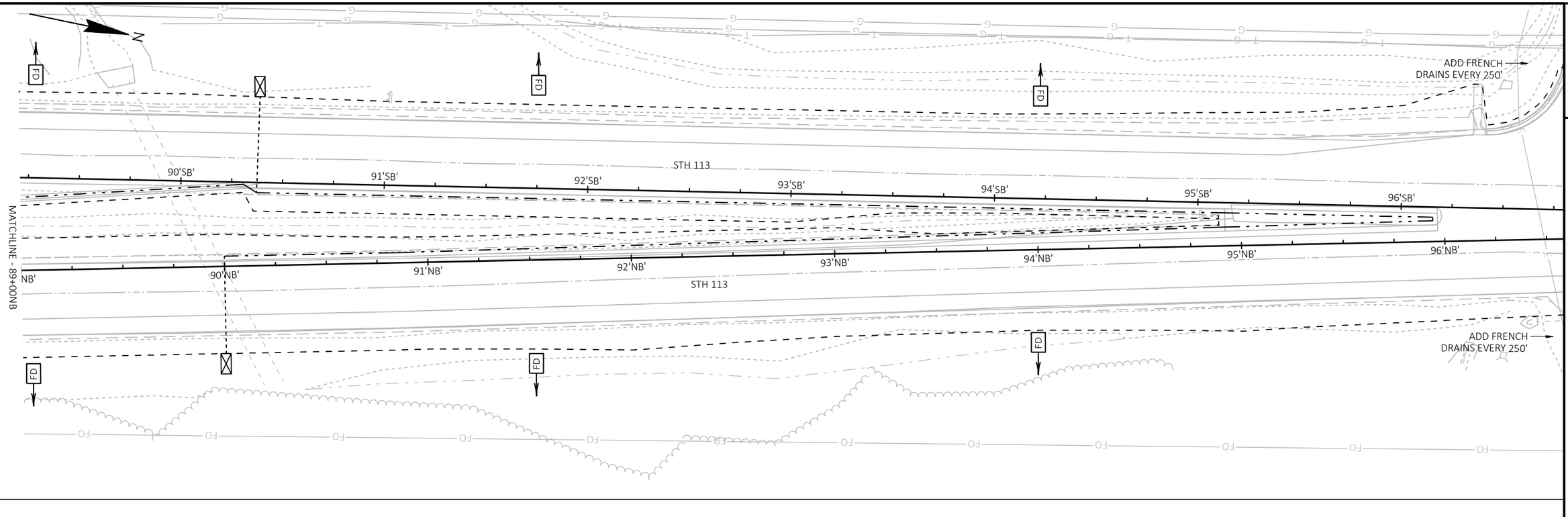
LEGEND

- SLOPE INTERCEPT
- PIPE UNDERDRAIN 6-INCH
- PIPE UNDERDRAIN UNPERFORATED 6-INCH
- FD — SUGGESTED LOCATION OF FRENCH DRAIN (USED FOR QUANTITY COMPUTATIONS. EXACT NUMBER AND LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER)
- C — CAPPED END OF PIPE UNDERDRAIN (INCIDENTAL TO PIPE UNDERDRAIN ITEMS)
- TAP CONNECTION TO INLET OR MANHOLE USING PIPE UNDERDRAIN 6-INCH (INCIDENTAL TO PIPE UNDERDRAIN ITEMS) (SEE CONSTRUCTION DETAILS FOR PIPE UNDERDRAIN)
- U.E. 881.71' +/- — ELEVATION OF UNDERDRAIN TAP CONNECTION (INCIDENTAL TO PIPE UNDERDRAIN ITEMS) (SEE CONSTRUCTION DETAILS FOR PIPE UNDERDRAIN)
- APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	STORM SEWER - UNDERDRAIN AND FRENCH DRAINS	SHEET 71	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022509-ss

PLOT DATE : 10/31/2022 8:05 AM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:50 FT



LEGEND

- SLOPE INTERCEPT
- PIPE UNDERDRAIN 6-INCH
- PIPE UNDERDRAIN UNPERFORATED 6-INCH
- FD — SUGGESTED LOCATION OF FRENCH DRAIN (USED FOR QUANTITY COMPUTATIONS. EXACT NUMBER AND LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER)
- C — CAPPED END OF PIPE UNDERDRAIN (INCIDENTAL TO PIPE UNDERDRAIN ITEMS)
- TAP CONNECTION TO INLET OR MANHOLE USING PIPE UNDERDRAIN 6-INCH (INCIDENTAL TO PIPE UNDERDRAIN ITEMS) (SEE CONSTRUCTION DETAILS FOR PIPE UNDERDRAIN)
- U.E. 881.71' +/- — ELEVATION OF UNDERDRAIN TAP CONNECTION (INCIDENTAL TO PIPE UNDERDRAIN ITEMS) (SEE CONSTRUCTION DETAILS FOR PIPE UNDERDRAIN)
- APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	STORM SEWER - UNDERDRAIN AND FRENCH DRAINS	SHEET 72	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022510-ss
PLOT DATE : 10/31/2022 8:05 AM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 41

2

N

ADD FRENCH DRAINS EVERY 250'

FD

STH 113

U.E. 911.83' +/-

412'RSB'

412'RNB'

411'RSB'

411'RNB'

13'RAB'

10'RAB'

12'RAB'

11'RAB'

UNDERDRAIN CONNECTION

202'AWB'

201'AWB'

200'AWB'

202'AEB'

201'AEB'

200'AEB'

ARBORETUM DR

U.E. 910.39' +/-

U.E. 910.40' +/-

C

U.E. 914.23' +/-

300'BWB'

301'BWB'

302'BWB'

303'BWB'

304'BWB'

BONG RD

300'BEB'

301'BEB'

302'BEB'

303'BEB'

304'BEB'

U.E. 913.62' +/-

ADD FRENCH DRAINS AT THE BEGINNING OF THE PROJECT

409'RSB'

409'RNB'

408'RSB'

408'RNB'

ADD FRENCH DRAINS EVERY 250'

LEGEND

- SLOPE INTERCEPT
- PIPE UNDERDRAIN 6-INCH
- PIPE UNDERDRAIN UNPERFORATED 6-INCH
- FD — SUGGESTED LOCATION OF FRENCH DRAIN (USED FOR QUANTITY COMPUTATIONS. EXACT NUMBER AND LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER)
- C — CAPPED END OF PIPE UNDERDRAIN (INCIDENTAL TO PIPE UNDERDRAIN ITEMS)
- TAP CONNECTION TO INLET OR MANHOLE USING PIPE UNDERDRAIN 6-INCH (INCIDENTAL TO PIPE UNDERDRAIN ITEMS) (SEE CONSTRUCTION DETAILS FOR PIPE UNDERDRAIN)
- U.E. 881.71' +/- — ELEVATION OF UNDERDRAIN TAP CONNECTION (INCIDENTAL TO PIPE UNDERDRAIN ITEMS) (SEE CONSTRUCTION DETAILS FOR PIPE UNDERDRAIN)
- APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	STORM SEWER - UNDERDRAIN AND FRENCH DRAINS	SHEET 73	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022511-ss
PLOT DATE : 10/31/2022 8:05 AM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 42

2

2

N

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

XXX DENOTES REMOVING SIGNS NUMBER

XXX DENOTES MOVING SIGNS NUMBER

ETR EXISTING SIGNS TO REMAIN

JCT COUNTY M ETR

212 MOVING SIGNS

203 STOP MOVING SIGNS

ONE WAY ETR

DIVIDED HIGHWAY STOP ETR

DEAD END ETR

205 MOVING SIGNS

STOP ETR

STOP 210 MOVING SIGNS

DO NOT ENTER 209 MOVING SIGNS

DRUMLIN RIDGEWINERY 2.8 ETR

202 WRONG WAY MOVING SIGNS

213 DO NOT ENTER MOVING SIGNS

STOP ETR

8 TONS ETR

DIVIDED HIGHWAY STOP ETR

ONE WAY ETR

ONE WAY ETR

THRU TRAFFIC MERGE RIGHT 206 MOVING SIGNS

ADOPT A HIGHWAY ETR

WRONG WAY 208 MOVING SIGNS

LEFT LANE MUST TURN LEFT ETR

ETR

RAILROAD

2'WRR'

2'ERR'

RIVER RD

STH 113

76'SB' 78'SB' 80'SB' 82'SB' 84'SB' 86'SB' 88'SB' 90'SB'

76'NB' 78'NB' 80'NB' 82'NB' 84'NB' 86'NB' 88'NB' 90'NB'

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	EXISTING SIGN REMOVALS	SHEET 74	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\023201-ES.DWG
LAYOUT NAME - 023201-es

PLOT DATE : 10/27/2022 2:52 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

MATCH LINE 201+00 'EB'

305 NO PARKING
MOVING SIGNS

OVER 3 TONS GROSS WEIGHT
ALTERNATE SIDE PARKING NOV 1 - APR 1 2 AM - 6 AM
304
MOVING SIGNS

SOLAR POWERED INTERSECTION WARNING FLASHER ASSEMBLY TO BE REMOVED BY OTHERS PRIOR TO CONSTRUCTION

306 STOP
REMOVE

ARBORETUM DR

ARBORETUM DR
HWY 113
REMOVE
BY OTHERS

303
40 MPH
REMOVE
LOCATED APPROXIMATELY AT STA. 418'SB'

409'RSB'
409'RNB'
STH 113
411'RSB'
412'RSB'
413'RSB'
414'RSB'
412'RNB'
413'RNB'
414'RNB'
411'RNB'
STH 113

SOLAR POWERED INTERSECTION WARNING FLASHER ASSEMBLY TO BE REMOVED BY OTHERS PRIOR TO CONSTRUCTION

301
40 MPH
REMOVE
LOCATED APPROXIMATELY AT STA. 402'NB'

BONG RD
REMOVE
BY OTHERS

300'BEB'
300'BWB'
BONG RD

302 STOP
REMOVE

BEB'
MATCH LINE 301+00 'EB'

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- XXX — DENOTES REMOVING SIGNS NUMBER
- XXX — DENOTES MOVING SIGNS NUMBER
- ETR — EXISTING SIGNS TO REMAIN

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	EXISTING SIGN REMOVALS	SHEET 75	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\023201-ES.DWG
LAYOUT NAME - 023202-es
PLOT DATE : 10/27/2022 2:52 PM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT

2

N

SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT
ETR

ETR

197'AEB'

198'AEB'

199'AEB'

200'AEB'

201'AEB'

201

ARBORETUM DR

MATCH LINE 201+00 'EB'

401
STOP AHEAD
REMOVE

MONTONDON AVE

STOP
ETR

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

XXX DENOTES REMOVING SIGNS NUMBER

XXX DENOTES MOVING SIGNS NUMBER

ETR EXISTING SIGNS TO REMAIN

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	EXISTING SIGN REMOVALS	SHEET 76	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\023201-ES.DWG
LAYOUT NAME - 023203-es

PLOT DATE : 10/27/2022 2:52 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

MATCH LINE 301+00 'EB'

301'BWB'
302'BWB'
303'BWB'
304'BWB'
304'BWB'
305'BEB'
306'BEB'
307'BEB'
BEB'
302'BEB'
303'BEB'
304'BEB'

BONG RD

SPEED LIMIT 45
MOVING SIGNS

501

IP
SEPV
POST
GUY
FO
OH
E
G

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- XXX — DENOTES REMOVING SIGNS NUMBER
- XXX — DENOTES MOVING SIGNS NUMBER
- ETR — EXISTING SIGNS TO REMAIN

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	EXISTING SIGN REMOVALS	SHEET 77	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\023201-ES.DWG
LAYOUT NAME - 023204-es

PLOT DATE : 10/27/2022 2:52 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON REMOVABLE POST(S)

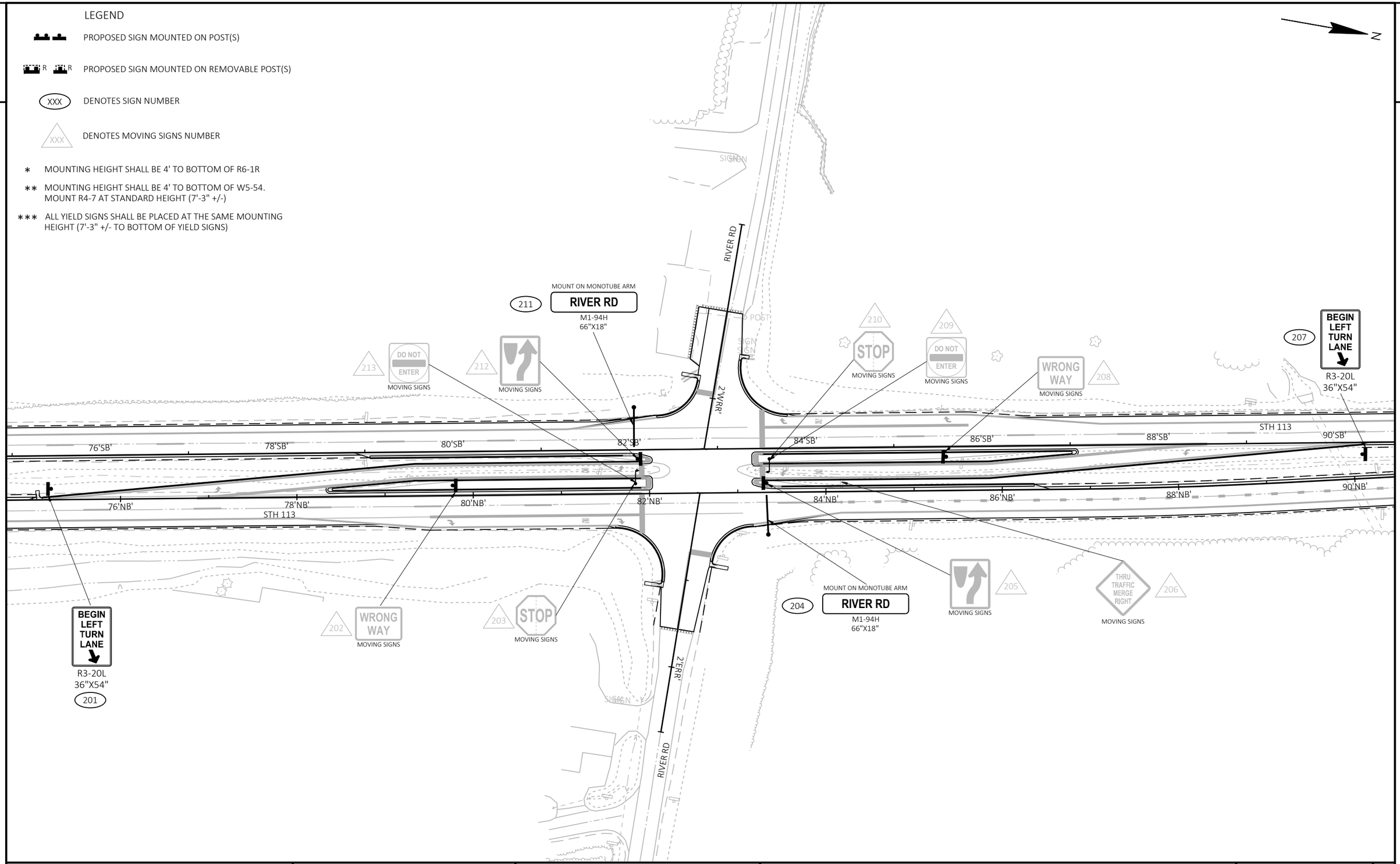
XXX DENOTES SIGN NUMBER

XXX DENOTES MOVING SIGNS NUMBER

* MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF R6-1R

** MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF W5-54. MOUNT R4-7 AT STANDARD HEIGHT (7'-3" +/-)

*** ALL YIELD SIGNS SHALL BE PLACED AT THE SAME MOUNTING HEIGHT (7'-3" +/- TO BOTTOM OF YIELD SIGNS)



PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PERMANENT SIGNING	SHEET 78	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 023201-ps

PLOT DATE : 10/31/2022 8:12 AM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

PROPOSED SIGN MOUNTED ON POST(S)

R R PROPOSED SIGN MOUNTED ON REMOVABLE POST(S)

IP

XXX DENOTES SIGN NUMBER

XXX DENOTES MOVING SIGNS NUMBER

* MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF R6-1R

** MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF W5-54.
MOUNT R4-7 AT STANDARD HEIGHT (7'-3" +/-)

*** ALL YIELD SIGNS SHALL BE PLACED AT THE SAME MOUNTING HEIGHT (7'-3" +/- TO BOTTOM OF YIELD SIGNS)

N

IP IP IP IP

IP

140+00

141+00

400'RSB'
400'RNB'

401'RSB'
401'RNB'

402'RSB'
402'RNB'

403'RSB'
403'RNB'

STH 113

MATCH LINE 403+50 'NB'

301

302

W2-6
36"X36"

20 MPH

W13-1
24"X24"

IP

IP

2

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PERMANENT SIGNING	SHEET 79	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 023202-ps

PLOT DATE : 10/31/2022 8:12 AM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON REMOVABLE POST(S)

XXX DENOTES SIGN NUMBER

XXX DENOTES MOVING SIGNS NUMBER

* MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF R6-1R

** MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF W5-54.
MOUNT R4-7 AT STANDARD HEIGHT (7'-3" +/-)

*** ALL YIELD SIGNS SHALL BE PLACED AT THE SAME MOUNTING HEIGHT (7'-3" +/- TO BOTTOM OF YIELD SIGNS)

N

407 DO NOT ENTER R5-1 36"X36"

406 SPEED LIMIT 55 R2-1 24"X30"

405 WRONG WAY R5-1A 36"X24"

404 SOUTH 113 J4-1 24"X36"

MATCH LINE 403+50 'NB'

404'RSB' 405'RSB' 406'RSB' 407'RSB' 408'RSB'

404'RNB' 405'RNB' 406'RNB' 407'RNB' 408'RNB'

STH 113

MATCH LINE 408+50 'NB'

401 D1-62 132"X66" NORTH 113 Arboretum Dr Bong Rd

402 ** R4-7 24"X30"

403 W5-54 18"X18"

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PERMANENT SIGNING	SHEET 80	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 023203-ps

PLOT DATE : 10/31/2022 8:12 AM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

MATCH LINE 201+00 'EB'

201

201

ARBORETUM DR

202'AEB'

202'AWB'

DO NOT ENTER
R5-1
30"X30"
515

516
R4-7
24"X30"

*** YIELD
R1-2
36"X31"
523

*** YIELD
R1-2
36"X31"
522

524
SOUTH 113
D1-1
42"X30"

Arboretum Dr
D1-1
90"X15"
517

*** YIELD
R1-2
36"X31"
514

*** YIELD
R1-2
36"X31"
513

409'RSB'

409'RNB'

STH 113

MATCH LINE 408+50 'NB'

521
520
518
519
* R6-1R
36"X12"
ONE WAY
R6-4B
60"X24"
504
505
506
507

411'RSB'

411'RNB'

412'RSB'

412'RNB'

413'RSB'

413'RNB'

STH 113

414'R

414'

MATCH LINE 414+00 'NB'

N

501
*** YIELD
R1-2
36"X31"

502
*** YIELD
R1-2
36"X31"

300'BEB'

300'BWB'

BONG RD

509
*** YIELD
R1-2
36"X31"

508
*** YIELD
R1-2
36"X31"

NORTH 113
D1-1
42"X30"
510

NORTH 113
J4-1
24"X36"
511

WRONG WAY
R5-1A
36"X24"
512

Bong Rd
D1-1
60"X15"
503

MATCH LINE 301+00 'EB'

LEGEND

- PROPOSED SIGN MOUNTED ON POST(S)
- R R PROPOSED SIGN MOUNTED ON REMOVABLE POST(S)
- XXX DENOTES SIGN NUMBER
- XXX DENOTES MOVING SIGNS NUMBER

* MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF R6-1R

** MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF W5-54. MOUNT R4-7 AT STANDARD HEIGHT (7'-3" +/-)

*** ALL YIELD SIGNS SHALL BE PLACED AT THE SAME MOUNTING HEIGHT (7'-3" +/- TO BOTTOM OF YIELD SIGNS)

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PERMANENT SIGNING	SHEET 81	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 023204-ps
PLOT DATE : 10/31/2022 8:12 AM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

MATCH LINE 414+00 'NB'

SB'

STH 113

415'RSB'

416'RSB'

417'RSB'

418'RSB'

419'R

RNB'

415'RNB'

416'RNB'

417'RNB'

418'RNB'

419'

MATCH LINE 419+00 'NB'

113 SOUTH

Bong Rd

Arboretum Dr

D1-62
132"X66"

605

** R4-7
24"X30"

606

607

W5-54
18"X18"

601 SPEED LIMIT 55 R2-1 24"X30"

DO NOT ENTER 602 R5-1 36"X36"

603

604

W2-6
36"X36"

20 MPH W13-1 24"X24"

IP

LEGEND

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON REMOVABLE POST(S)

XXX DENOTES SIGN NUMBER

XXX DENOTES MOVING SIGNS NUMBER

* MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF R6-1R

** MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF W5-54. MOUNT R4-7 AT STANDARD HEIGHT (7'-3" +/-)

*** ALL YIELD SIGNS SHALL BE PLACED AT THE SAME MOUNTING HEIGHT (7'-3" +/- TO BOTTOM OF YIELD SIGNS)

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PERMANENT SIGNING	SHEET 82	E

2

2

LEGEND

PROPOSED SIGN MOUNTED ON POST(S)

R R PROPOSED SIGN MOUNTED ON REMOVABLE POST(S)

XXX DENOTES SIGN NUMBER

XXX DENOTES MOVING SIGNS NUMBER

* MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF R6-1R

** MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF W5-54.
MOUNT R4-7 AT STANDARD HEIGHT (7'-3" +/-)

*** ALL YIELD SIGNS SHALL BE PLACED AT THE SAME MOUNTING HEIGHT (7'-3" +/- TO BOTTOM OF YIELD SIGNS)

N

OVER 3 TONS GROSS WEIGHT

ALTERNATE SIDE PARKING NOV 1 - APR 1 2 AM - 6 AM

705

MOVING SIGNS

MATCH LINE 201+00 'EB'

201'AEB'

201'AEB'

197'AEB'

198'AEB'

199'AEB'

200'AEB'

ARBORETUM DR

MONTONDON AVE

NO PARKING

701

MOVING SIGNS

702

W2-6
30"X30"

703

20 MPH
W13-1
18"X18"

113

704

J13-1
24"X45"

IP

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PERMANENT SIGNING	SHEET 83	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 023206-ps

PLOT DATE : 10/31/2022 8:12 AM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

MATCH LINE 301+00 'EB'

301'BWB'

302'BWB'

303'BWB'

304'BWB'

304'BWB'

'BEB'

302'BEB'

303'BEB'

304'BEB'

305'BEB'

306'BEB'

307'BE

BONG RD

POST

POST

IP

IP

IP

IP

IP

** R4-7 24"X30" 807

808 W5-54 18"X18"

113 806 J13-1 24"X45"

IP W2-6 36"X36" 804

20 MPH 805 W13-1 24"X24"

DO NOT ENTER 802 R5-1 30"X30"

803 SPEED LIMIT 45 MOVING SIGNS

LEGEND

PROPOSED SIGN MOUNTED ON POST(S)

R R PROPOSED SIGN MOUNTED ON REMOVABLE POST(S)

XXX DENOTES SIGN NUMBER

XXX DENOTES MOVING SIGNS NUMBER

* MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF R6-1R

** MOUNTING HEIGHT SHALL BE 4' TO BOTTOM OF W5-54. MOUNT R4-7 AT STANDARD HEIGHT (7'-3" +/-)

*** ALL YIELD SIGNS SHALL BE PLACED AT THE SAME MOUNTING HEIGHT (7'-3" +/- TO BOTTOM OF YIELD SIGNS)

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PERMANENT SIGNING	SHEET 84	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 023207-ps

PLOT DATE : 10/31/2022 8:12 AM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

WAUNAKEE (ELEC)

MGE (GAS)

SPECTRUM (FO)

MCI (FO)

404'RSB'

404'RNB'

405'RSB'

405'RNB'

406'RSB'

406'RNB'

407'RSB'

407'RNB'

408'RSB'

408'RNB'

STH 113

MATCH LINE 408+50 'NB'

LC1 - 10 - (6,8)
STA. 405+33.29 'RNB', 26.2' RT

PB-10
STA. 405+33.32 'RNB', 31.2' RT

LC1 - 9 - (2,4)
STA. 406+99.63 'RNB', 27.4' RT

PB-9
STA. 406+99.75 'RNB', 32.4' RT

ATC (OH)

EVERSTREAM (FO, APPROX.)

LEGEND

POLES TYPE 5-ALUMINUM WITH LUMINAIRE ARMS
TRUSS TYPE 4 1/2-INCH CLAMP 15-FT
CONCRETE BASE TYPE 5, TRANSFORMER BASE
LED LAMP TYPE B

LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE

CONDUIT RIGID NONMETALLIC SCHEDULE 40 (SCHEDULE 80 BELOW ROADWAY)

PULL BOXES NON-CONDUCTIVE 24X42-INCH

LIGHTING CONTROL CABINET DESIGNATION
POLE NUMBER
LIGHTING CIRCUIT(S)
X-X-(X,X) — ARM LENGTH
STA. XX+XX.XX, XX.XX' RT./LT. — (LOCATION TO CENTER OF POLE)

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

1	1 2"	2 12 LIGHT	1 12 GND	5	1 2"	8 12 LIGHT	2 12 GND
2	1 2"	4 12 LIGHT	1 12 GND	6	2 3"	4 12 LIGHT	1 12 GND
3	1 2"	4 12 LIGHT	2 12 GND	7	2 3"	8 12 LIGHT	2 12 GND
4	1 2"	6 12 LIGHT	3 12 GND	8	1 2"	12 12 LIGHT	3 12 GND

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	LIGHTING PLAN	SHEET 85	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\023601-LP.DWG
LAYOUT NAME - 023601-lp
PLOT DATE : 10/31/2022 8:19 AM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

MATCH LINE 201+00 'EB'

MATCH LINE 408+50 'NB'

MATCH LINE 414+00 'NB'

MATCH LINE 301+00 'EB'

N

LC1 - 1 - (1,3)
STA. 201+29.21 'AEB', 19.6' RT

PB-1
STA. 201+29.44 'AEB', 24.6' RT

PB-22
STA. 201+88.39 'AEB', -15.3' LT

PB-3
STA. 201+95.04 'AWB', -29.2' LT

LC1 - 3 - (5,7)
STA. 202+11.14 'AWB', -25.7' LT

PB-16
STA. 202+00.74 'AEB', 34.7' RT

LC1
STA. 10+55.51 'RAB', 53.8' RT

LC1 - 7 - (2,4)
STA. 409+40.85 'RSB', -40.0' LT

PB-7
STA. 409+34.36 'RSB', -26.0' LT

PB-15
STA. 10+52.52 'RAB', 37.1' RT

PB-4
STA. 411+48.85 'RSB', -33.8' LT

LC1 - 4 - (1,3)
STA. 411+73.55 'RSB', -30.0' LT

PB-5
STA. 413+41.50 'RSB', -32.1' LT

LC1 - 5 - (5,7)
STA. 413+41.29 'RSB', -27.1' LT

PB-21
STA. 409+28.08 'RNB', -15.7' LT

PB-18
STA. 411+33.46 'RNB', -7.8' LT

PB-20
STA. 409+29.69 'RNB', 34.9' RT

PB-8
STA. 408+68.70 'RNB', 35.7' RT

LC1 - 8 - (6,8)
STA. 408+68.70 'RNB', 28.7' RT

PB-12
STA. 411+26.44 'RNB', 29.0' RT

LC1 - 12 - (6,8)
STA. 411+00.24 'RNB', 26.0' RT

PB-11
STA. 300+03.14 'BEB', 32.9' RT

LC1 - 11 - (2,4)
STA. 300+02.08 'BEB', 28.0' RT

PB-17
STA. 12+20.70 'RAB', 39.1' RT

PB-19
STA. 300+14.94 'BWB', 13.8' RT

EMPTY CONDUIT.
INSTALL TRACER WIRE ONLY

MGE (GAS)

WAUNAKEE (ELEC)

TDS (FO)

SPECTRUM (FO)

MCI (FO)

EVERSTREAM (FO, APPROX.)

ATC (OH)

ARBORETUM DR

BONG RD

STH 113

409'RSB'

409'RNB'

411'RSB'

411'RNB'

412'RSB'

412'RNB'

413'RSB'

413'RNB'

414'R

11'RAB'

13'RAB'

12'RAB'

10'RAB'

202'AWB'

202'AEB'

300'BEB'

300'BWB'

LEGEND

POLES TYPE 5-ALUMINUM WITH LUMINAIRE ARMS
TRUSS TYPE 4 1/2-INCH CLAMP 15-FT
CONCRETE BASE TYPE 5, TRANSFORMER BASE
LED LAMP TYPE B

LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE

CONDUIT RIGID NONMETALLIC SCHEDULE 40 (SCHEDULE 80 BELOW ROADWAY)

PULL BOXES NON-CONDUCTIVE 24X42-INCH

LIGHTING CONTROL CABINET DESIGNATION
POLE NUMBER
LIGHTING CIRCUIT(S)
X-X-(X,X) — ARM LENGTH
STA. XX+XX.XX, XX.XX' RT./LT. ← (LOCATION TO CENTER OF POLE)

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

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	LIGHTING PLAN	SHEET 86	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\023601-LP.DWG
LAYOUT NAME - 023602-lp
PLOT DATE : 10/31/2022 8:19 AM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

MGE (GAS)

TDS (FO)

WAUNAKEE (ELEC)

PB-6
STA. 415+08.57 'RSB', -31.8' LT

LC1 - 6 - (1,3)
STA. 415+08.86 'RSB', -26.8' LT

1

1

415'RSB'

416'RSB'

417'RSB'

418'RSB'

419'RSB'

STH 113

415'RNB'

416'RNB'

417'RNB'

418'RNB'

419'RNB'

MATCH LINE 414+00 'NB'

EVERSTREAM (FO, APPROX.)

IP

ATC (OH)

LEGEND

POLES TYPE 5-ALUMINUM WITH LUMINAIRE ARMS
TRUSS TYPE 4 1/2-INCH CLAMP 15-FT
CONCRETE BASE TYPE 5, TRANSFORMER BASE
LED LAMP TYPE B

LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE

CONDUIT RIGID NONMETALLIC SCHEDULE 40 (SCHEDULE 80 BELOW ROADWAY)

PULL BOXES NON-CONDUCTIVE 24X42-INCH

LIGHTING CONTROL CABINET DESIGNATION
POLE NUMBER
LIGHTING CIRCUIT(S)
X-X-(X,X) — ARM LENGTH
STA. XX+XX.XX, XX.XX' RT./LT. — (LOCATION TO CENTER OF POLE)

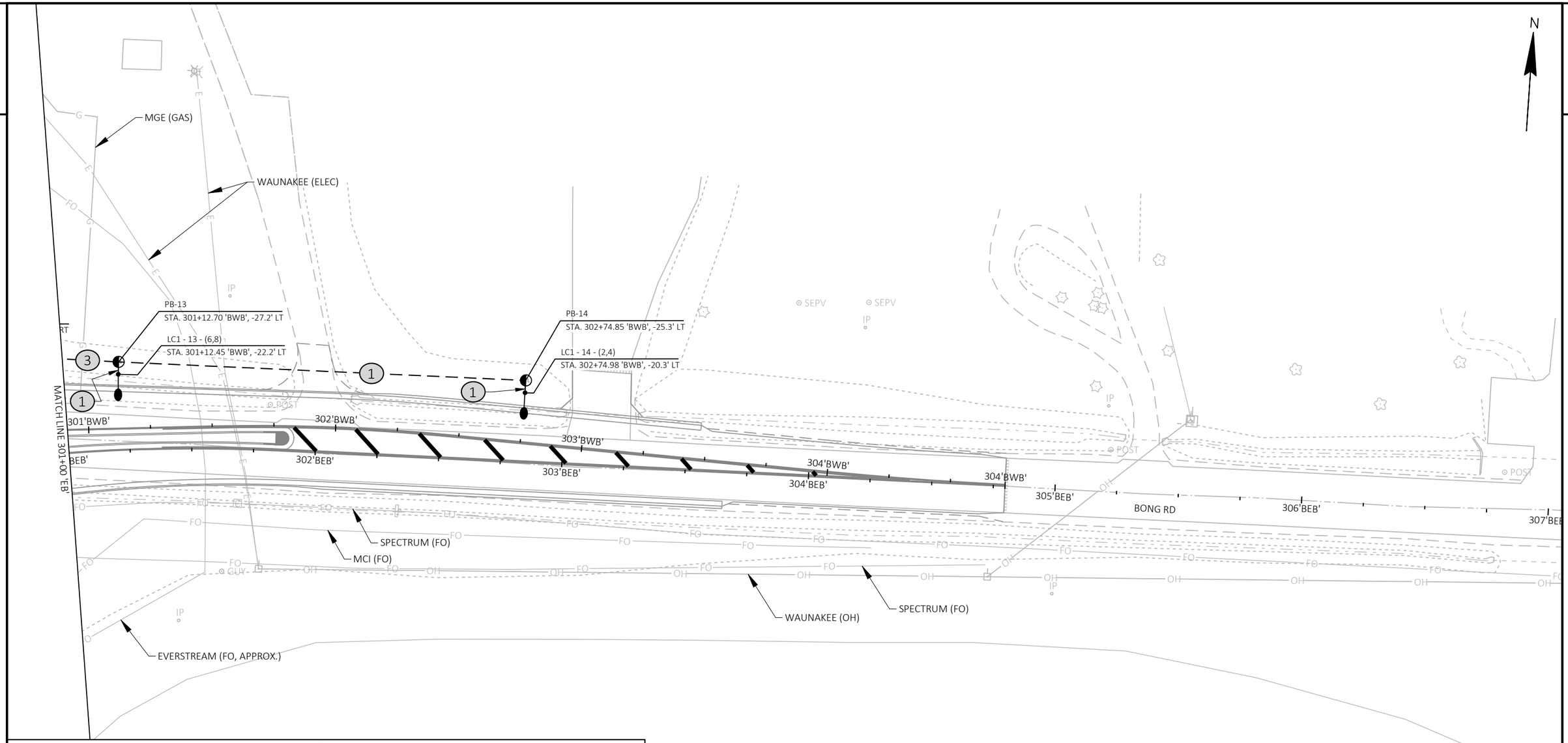
CONDUIT QUANTITY/SIZE
PHASE CONDUCTOR QUANTITY/SIZE (AWG)/CIRCUIT
EQUIPMENT GROUNDING CONDUCTOR QUANTITY/SIZE (AWG)

1	1 2"	2 12 LIGHT	1 12 GND
2	1 2"	4 12 LIGHT	1 12 GND
3	1 2"	4 12 LIGHT	2 12 GND
4	1 2"	6 12 LIGHT	3 12 GND
5	1 2"	8 12 LIGHT	2 12 GND
6	2 3"	4 12 LIGHT	1 12 GND
7	2 3"	8 12 LIGHT	2 12 GND
8	1 2"	12 12 LIGHT	3 12 GND

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	LIGHTING PLAN	SHEET 87	E

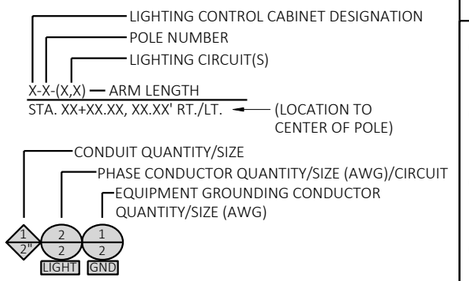
FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\023601-LP.DWG
LAYOUT NAME - 023603-lp
PLOT DATE : 10/31/2022 8:20 AM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

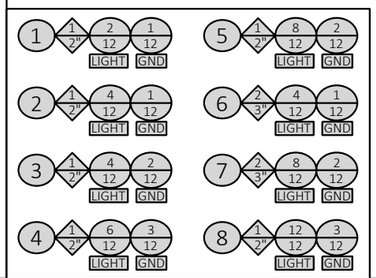
2



LEGEND

- POLES TYPE 5-ALUMINUM WITH LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 15-FT CONCRETE BASE TYPE 5, TRANSFORMER BASE LED LAMP TYPE B
- LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE
- CONDUIT RIGID NONMETALLIC SCHEDULE 40 (SCHEDULE 80 BELOW ROADWAY)
- PULL BOXES NON-CONDUCTIVE 24X42-INCH





PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	LIGHTING PLAN	SHEET 88	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\023601-LP.DWG
LAYOUT NAME - 023604-lp
PLOT DATE : 10/31/2022 8:20 AM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

WAUNAKEE (ELEC)

WAUNAKEE (ELEC)

TDS (FO)

WAUNAKEE (ELEC)

MATCH LINE 201+00 'EB'

197'AEB'

198'AEB'

199'AEB'

200'AEB'

ARBORETUM DR

MONTONDON AVE

LC1 - 2 - (5,7)
STA. 200+04.49 'AEB', 22.1' RT

PB-2
STA. 200+10.45 'AEB', 22.3' RT

WAUNAKEE (ELEC)

MGE (GAS)

TDS (COMM)

SPECTRUM (FO)

MCI (FO)

LEGEND

POLES TYPE 5-ALUMINUM WITH LUMINAIRE ARMS
TRUSS TYPE 4 1/2-INCH CLAMP 15-FT
CONCRETE BASE TYPE 5, TRANSFORMER BASE
LED LAMP TYPE B

LIGHTING CONTROL CABINET AND ELECTRICAL SERVICE BREAKER PEDESTAL ON CONCRETE CONTROL CABINET BASE

CONDUIT RIGID NONMETALLIC SCHEDULE 40 (SCHEDULE 80 BELOW ROADWAY)

PULL BOXES NON-CONDUCTIVE 24X42-INCH

LIGHTING CONTROL CABINET DESIGNATION
POLE NUMBER
LIGHTING CIRCUIT(S)
X-X-(X,X) — ARM LENGTH
STA. XX+XX.XX, XX.XX' RT./LT. ← (LOCATION TO CENTER OF POLE)

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

1 2" 2 2 1 2 LIGHT GND

1 2" 1 2 2 12 1 12 LIGHT GND
2 2" 1 2 4 12 1 12 LIGHT GND
3 2" 1 2 4 12 2 12 LIGHT GND
4 2" 1 2 6 12 3 12 LIGHT GND
5 2" 1 2 8 12 2 12 LIGHT GND
6 3" 2 2 4 12 1 12 LIGHT GND
7 3" 2 2 8 12 2 12 LIGHT GND
8 3" 2 2 12 12 3 12 LIGHT GND

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	LIGHTING PLAN	SHEET 89	E

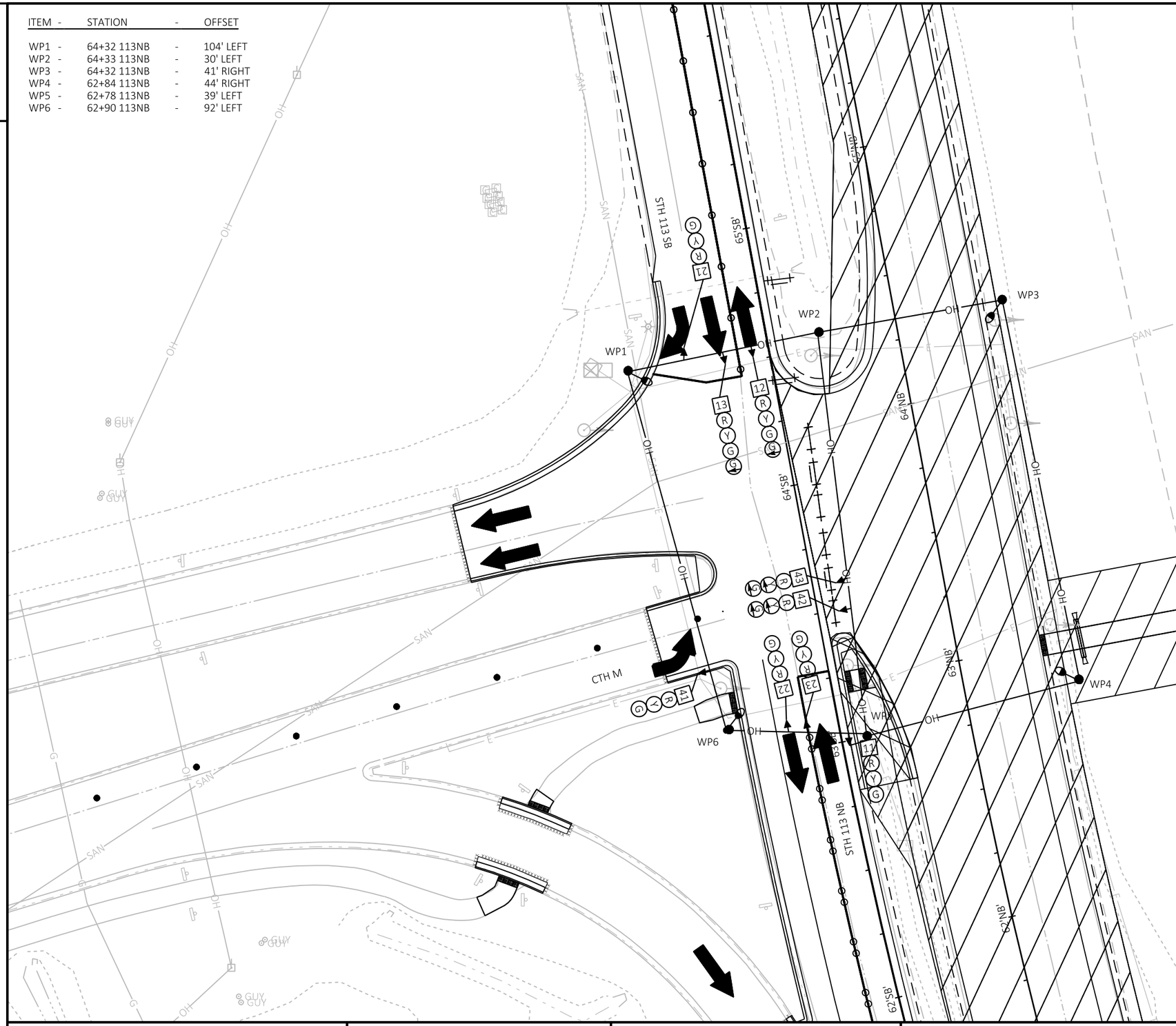
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LAYOUT NAME - 023605-lp

PLOT DATE : 10/31/2022 8:20 AM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

ITEM	-	STATION	-	OFFSET
WP1	-	64+32 113NB	-	104' LEFT
WP2	-	64+33 113NB	-	30' LEFT
WP3	-	64+32 113NB	-	41' RIGHT
WP4	-	62+84 113NB	-	44' RIGHT
WP5	-	62+78 113NB	-	39' LEFT
WP6	-	62+90 113NB	-	92' LEFT



CONSTRUCTION NOTES:

1. FINAL LOCATION OF WOOD POLES, SIGNAL HEADS, AND TEMPORARY CABINET SHALL BE AS DIRECTED BY THE ENGINEER. USE CAUTION WHEN LOCATING WOOD POLES.
2. GUYING OF POLES IS REQUIRED AS SHOWN IN THE STANDARD DETAIL DRAWINGS AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER. MULTIPLE ADJUSTMENTS MAY BE REQUIRED AND ARE CONSIDERED INCIDENTAL TO THE TEMPORARY TRAFFIC SIGNAL BID ITEM.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
4. MAINTAIN PROPER SIGNAL HEAD LOCATIONS THROUGH EACH CONSTRUCTION STAGE. ADJUSTMENTS MAY BE REQUIRED IN EACH STAGE AND ARE CONSIDERED INCIDENTAL TO THE TEMPORARY TRAFFIC SIGNAL BID ITEM.

4.1. FOR THRU INDICATIONS, MOUNT ONE SIGNAL HEAD DIRECTLY ABOVE RECEIVING LANE AND THE OTHER SIGNAL HEAD 8' TO THE RIGHT.

4.2. FOR LEFT-TURN INDICATIONS, MOUNT ONE SIGNAL HEAD DIRECTLY IN FRONT OF TURNING LANE. MOUNT SUPPLEMENTARY SIGNAL HEAD 8' TO THE LEFT.

5. ALL LUMINAIRES SHALL BE LED C MOUNTED ON 12' ARM.
6. ALL EXISTING SIGNAL HEADS MUST BE TURNED, REMOVED, OR BAGGED PRIOR TO TURNING TEMPORARY TRAFFIC SIGNAL ON.

LEGEND

- OH — OVERHEAD SIGNAL CABLE
- CLASS 4 WOOD POLE
- SIGNAL HEAD
- TRAFFIC SIGNAL HEAD
- LUMINAIRE WITH 12' ARM

N

TRAFFIC CONTROL SIGNAL
STH 113 & CTH M
TOWN OF WESTPORT
DANE COUNTY

SIGNAL NO. T13-0416

REGION CONTACT: GRAHAM HEITZ
DESIGNED BY: COLLIN WEBB
REVISED BY:

PAGE 01 OF 05

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	TEMPORARY TRAFFIC SIGNAL PLAN - STH 113 & CTH M STAGE 1B/1C	SHEET 90	E

FILE NAME : C:\BOXDRV\BOX\DTSD-PROJECTS-PUBLIC\SWR-PROJECTS-STATE\DESIGN\54200202\TRAFFIC\ELECTRICAL\SIGNALS\024101_ST.DWG
LAYOUT NAME - 024101-st
PLOT DATE : 12/1/2022 5:19 PM
PLOT BY : WEBB, COLLIN J
PLOT NAME :
PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

2

CONSTRUCTION NOTES:

1. FINAL LOCATION OF WOOD POLES, SIGNAL HEADS, AND TEMPORARY CABINET SHALL BE AS DIRECTED BY THE ENGINEER. USE CAUTION WHEN LOCATING WOOD POLES.
2. GUYING OF POLES IS REQUIRED AS SHOWN IN THE STANDARD DETAIL DRAWINGS AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER. MULTIPLE ADJUSTMENTS MAY BE REQUIRED AND ARE CONSIDERED INCIDENTAL TO THE TEMPORARY TRAFFIC SIGNAL BID ITEM.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
4. MAINTAIN PROPER SIGNAL HEAD LOCATIONS THROUGH EACH CONSTRUCTION STAGE. ADJUSTMENTS MAY BE REQUIRED IN EACH STAGE AND ARE CONSIDERED INCIDENTAL TO THE TEMPORARY TRAFFIC SIGNAL BID ITEM.

4.1. FOR THRU INDICATIONS, MOUNT ONE SIGNAL HEAD DIRECTLY ABOVE RECEIVING LANE AND THE OTHER SIGNAL HEAD 8' TO THE RIGHT.

4.2. FOR LEFT-TURN INDICATIONS, MOUNT ONE SIGNAL HEAD DIRECTLY IN FRONT OF TURNING LANE. MOUNT SUPPLEMENTARY SIGNAL HEAD 8' TO THE LEFT.

5. ALL LUMINAIRES SHALL BE LED C MOUNTED ON 12' ARM.
6. ALL EXISTING SIGNAL HEADS MUST BE TURNED, REMOVED, OR BAGGED PRIOR TO TURNING TEMPORARY TRAFFIC SIGNAL ON.

LEGEND

- OH — OVERHEAD SIGNAL CABLE
- CLASS 4 WOOD POLE
- SIGNAL HEAD
- TRAFFIC SIGNAL HEAD
- LUMINAIRE WITH 12' ARM

N

TRAFFIC CONTROL SIGNAL
STH 113 & CTH M
TOWN OF WESTPORT
DANE COUNTY

SIGNAL NO. T13-0416

REGION CONTACT: GRAHAM HEITZ
DESIGNED BY: COLLIN WEBB
REVISED BY:

PAGE 02 OF 05

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	TEMPORARY TRAFFIC SIGNAL PLAN - STH 113 & CTH M STAGE 2A	SHEET 91	E

FILE NAME : C:\BOXDRV\BOX\DTSD-PROJECTS-PUBLIC\SWR-PROJECTS-STATE\DESIGN\54200202\TRAFFIC\ELECTRICAL\SIGNALS\024101_ST.DWG
LAYOUT NAME - 024102-st

PLOT DATE : 12/1/2022 5:19 PM PLOT BY : WEBB, COLLIN J PLOT NAME : PLOT SCALE : ##########

2

CONSTRUCTION NOTES:

1. FINAL LOCATION OF WOOD POLES, SIGNAL HEADS, AND TEMPORARY CABINET SHALL BE AS DIRECTED BY THE ENGINEER. USE CAUTION WHEN LOCATING WOOD POLES.
2. GUYING OF POLES IS REQUIRED AS SHOWN IN THE STANDARD DETAIL DRAWINGS AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER. MULTIPLE ADJUSTMENTS MAY BE REQUIRED AND ARE CONSIDERED INCIDENTAL TO THE TEMPORARY TRAFFIC SIGNAL BID ITEM.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
4. MAINTAIN PROPER SIGNAL HEAD LOCATIONS THROUGH EACH CONSTRUCTION STAGE. ADJUSTMENTS MAY BE REQUIRED IN EACH STAGE AND ARE CONSIDERED INCIDENTAL TO THE TEMPORARY TRAFFIC SIGNAL BID ITEM.

4.1. FOR THRU INDICATIONS, MOUNT ONE SIGNAL HEAD DIRECTLY ABOVE RECEIVING LANE AND THE OTHER SIGNAL HEAD 8' TO THE RIGHT.

4.2. FOR LEFT-TURN INDICATIONS, MOUNT ONE SIGNAL HEAD DIRECTLY IN FRONT OF TURNING LANE. MOUNT SUPPLEMENTARY SIGNAL HEAD 8' TO THE LEFT.

5. ALL LUMINAIRES SHALL BE LED C MOUNTED ON 12' ARM.
6. ALL EXISTING SIGNAL HEADS MUST BE TURNED, REMOVED, OR BAGGED PRIOR TO TURNING TEMPORARY TRAFFIC SIGNAL ON.

LEGEND

- OH — OVERHEAD SIGNAL CABLE
- CLASS 4 WOOD POLE
- SIGNAL HEAD
- TRAFFIC SIGNAL HEAD
- LUMINAIRE WITH 12' ARM

N

WP1 WP2 WP3 WP4 WP5 WP6

STH 113 SB
STH 113 NB
CTH M
65'SB
64'NB
64'SB
63'NB
63'SB
62'NB
62'SB

TRAFFIC CONTROL SIGNAL
STH 113 & CTH M
TOWN OF WESTPORT
DANE COUNTY

SIGNAL NO. T13-0416

REGION CONTACT: GRAHAM HEITZ
DESIGNED BY: COLLIN WEBB
REVISED BY:

PAGE 03 OF 05

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	TEMPORARY TRAFFIC SIGNAL PLAN - STH 113 & CTH M STAGE 2B/2C	SHEET 92	E

FILE NAME : C:\BOXDRV\BOX\DTSD-PROJECTS-PUBLIC\SWR-PROJECTS-STATE\DESIGN\54200202\TRAFFIC\ELECTRICAL\SIGNALS\024101_ST.DWG
LAYOUT NAME - 024103-st
PLOT DATE : 12/1/2022 5:19 PM PLOT BY : WEBB, COLLIN J PLOT NAME : PLOT SCALE : ##########

	HEAD NUMBERS	FLASH
Ø1	11,12,13	R ←
Ø2	21,22,23	R
Ø4	41,42,43	R

RING 1

		NOT USED	
Ø1	Ø2	Ø3	Ø4

RING 2

NOT USED	NOT USED	NOT USED	NOT USED
Ø5	Ø6	Ø7	Ø8

BARRIER

CONTROLLER LOGIC

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

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	X
CELL MODEM	

TYPE OF COORDINATION	
NONE	X
TBC	
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

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

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

VIDEO DETECTION - WISDOT SUPPLIED/MAINTAINED

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR		V11						
CALLED PHASE		1						
CALL OPTION		X						
DELAY TIME		-						
EXTENSION OPTION		X						
EXTENSION TIME		-						
USE ADDED INITIAL		-						
CROSS SWITCH PHASE		-						

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR	V41	V21						
CALLED PHASE	3	2						
CALL OPTION	X	X						
DELAY TIME	-	-						
EXTENSION OPTION	X	X						
EXTENSION TIME	-	-						
USE ADDED INITIAL	-	-						
CROSS SWITCH PHASE	-	-						

TRAFFIC CONTROL SIGNAL
STH 113 & CTH M
TOWN OF WESTPORT
DANE COUNTY

SIGNAL NO. T13-0416

REGION CONTACT: GRAHAM HEITZ
DESIGNED BY: COLLIN WEBB
REVISED BY:

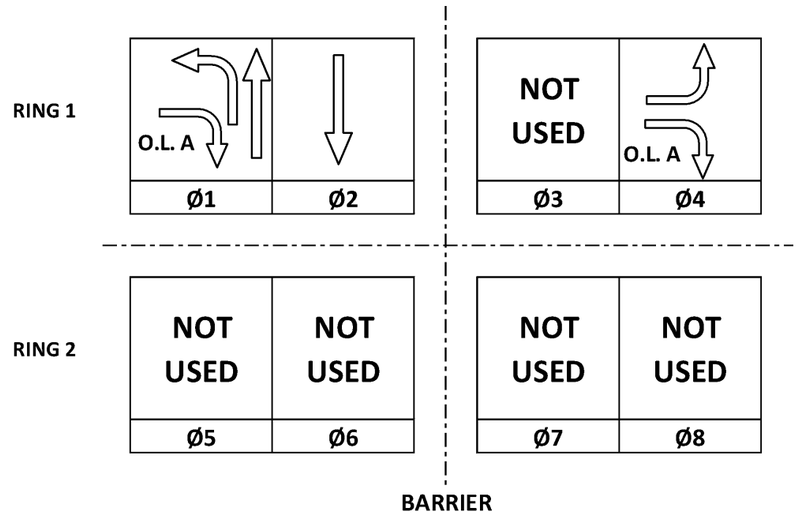
PAGE 04 OF 05

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	TEMPORARY SEQUENCE OF OPERATIONS - STAGE 1B/1C & STAGE 2B/2C	SHEET 93	E

FILE NAME : C:\BOXDRV\BOX\DTSD-PROJECTS-PUBLIC\SWR-PROJECTS-STATE\DESIGN\54200202\TRAFFIC\ELECTRICAL\SIGNALS\024101_ST.DWG
LAYOUT NAME - 024104-st
PLOT DATE : 12/1/2022 5:19 PM PLOT BY : WEBB, COLLIN J PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	11,12,13	R ←
Ø2	21,22,23	R
Ø4	41,42,43	R
OLA	A1,A2,A3	R ⇢



CONTROLLER LOGIC

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

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	X
RADIO	X
CELL MODEM	

TYPE OF COORDINATION	
NONE	X
TBC	
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

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

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

VIDEO DETECTION - WISDOT SUPPLIED/MAINTAINED

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR	VA1	V11						
CALLED PHASE	1	1						
CALL OPTION	X	X						
DELAY TIME		-						
EXTENSION OPTION	X	X						
EXTENSION TIME	-	-						
USE ADDED INITIAL	-	-						
CROSS SWITCH PHASE	-	-						

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR	V41	V21						
CALLED PHASE	3	2						
CALL OPTION	X	X						
DELAY TIME	-	-						
EXTENSION OPTION	X	X						
EXTENSION TIME	-	-						
USE ADDED INITIAL	-	-						
CROSS SWITCH PHASE	-	-						

TRAFFIC CONTROL SIGNAL
STH 113 & CTH M
TOWN OF WESTPORT
DANE COUNTY

SIGNAL NO. T13-0416

REGION CONTACT: GRAHAM HEITZ
DESIGNED BY: COLLIN WEBB
REVISED BY:

FILE NAME : C:\BOXDRV\BOX\DTSD-PROJECTS-PUBLIC\SWR-PROJECTS-STATE\DESIGN\54200202\TRAFFIC\ELECTRICAL\SIGNALS\024101_ST.DWG
LAYOUT NAME - 024105-st
PLOT DATE : 12/1/2022 5:19 PM PLOT BY : WEBB, COLLIN J PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

2

2

N

STH 113 SB

ONLY

STH 113 NB

ONLY ONLY

CTH M

ESC1

EPB101

EPB102

EPB103

EPB104

EPB105

EPB106

ESB99

ESB100

OH

SAN

E

8 GUY

REMOVAL ITEMS:
2 - TYPE 1 BASE
1 - 24"X42" STEEL PULL BOX
2 - 13' TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
4 - 3-SECTION TRAFFIC SIGNAL HEAD
1 - PEDESTRIAN COUNTDOWN TIMER

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	TRAFFIC SIGNAL REMOVAL PLAN - STH 113 & CTH M	SHEET 95	E

FILE NAME : C:\BOXDRV\BOX\DTSD-PROJECTS-PUBLIC\SWR-PROJECTS-STATE\DESIGN\54200202\TRAFFIC\ELECTRICAL\SIGNALS\024201_SP.DWG
LAYOUT NAME - 024001-sr

PLOT DATE : 10/6/2022 6:01 PM PLOT BY : WEBB, COLLIN J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

STH 113 SB

ONLY

EPB113

ESB105

ESB104

EPB111

EPB116

REMOVE EPB116
AND RECONNECT
TO ESB

RIVER ROAD

ESB110

ESB109

EPB118

EPB119

STH 113 NB

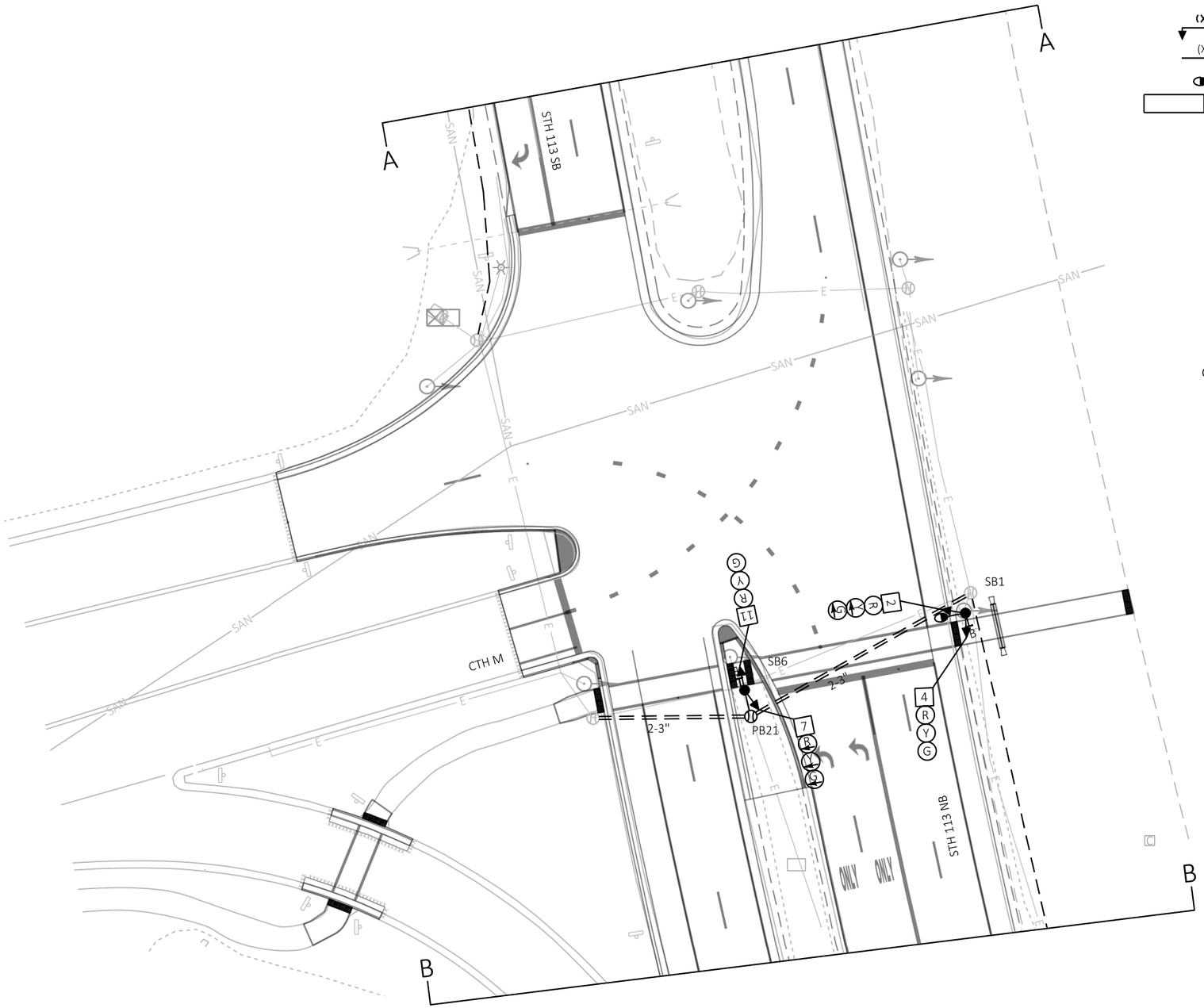
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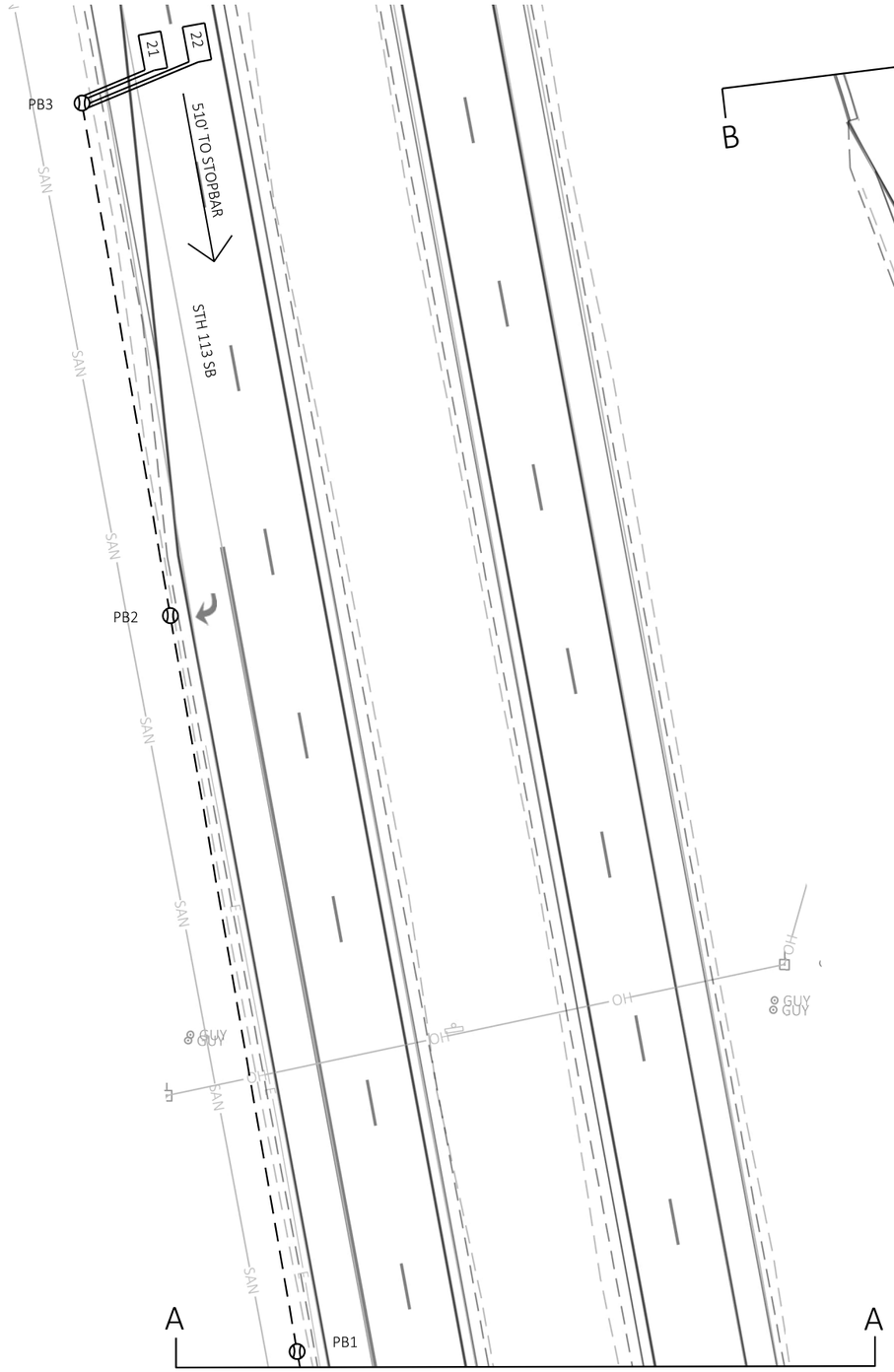
REMOVAL ITEMS:
2 - TYPE 1 CONCRETE BASE
2 - TYPE 2 CONCRETE BASE
2 - 24"X42" STEEL PULL BOX
2 - 13' TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
2 - TYPE 3 POLE, TRANSFORMER BASE, TROMBONE ARM, LUMINAIRE ARM
4 - 3-SECTION TRAFFIC SIGNAL HEAD
2 - LED LIGHTING LUMINAIRE

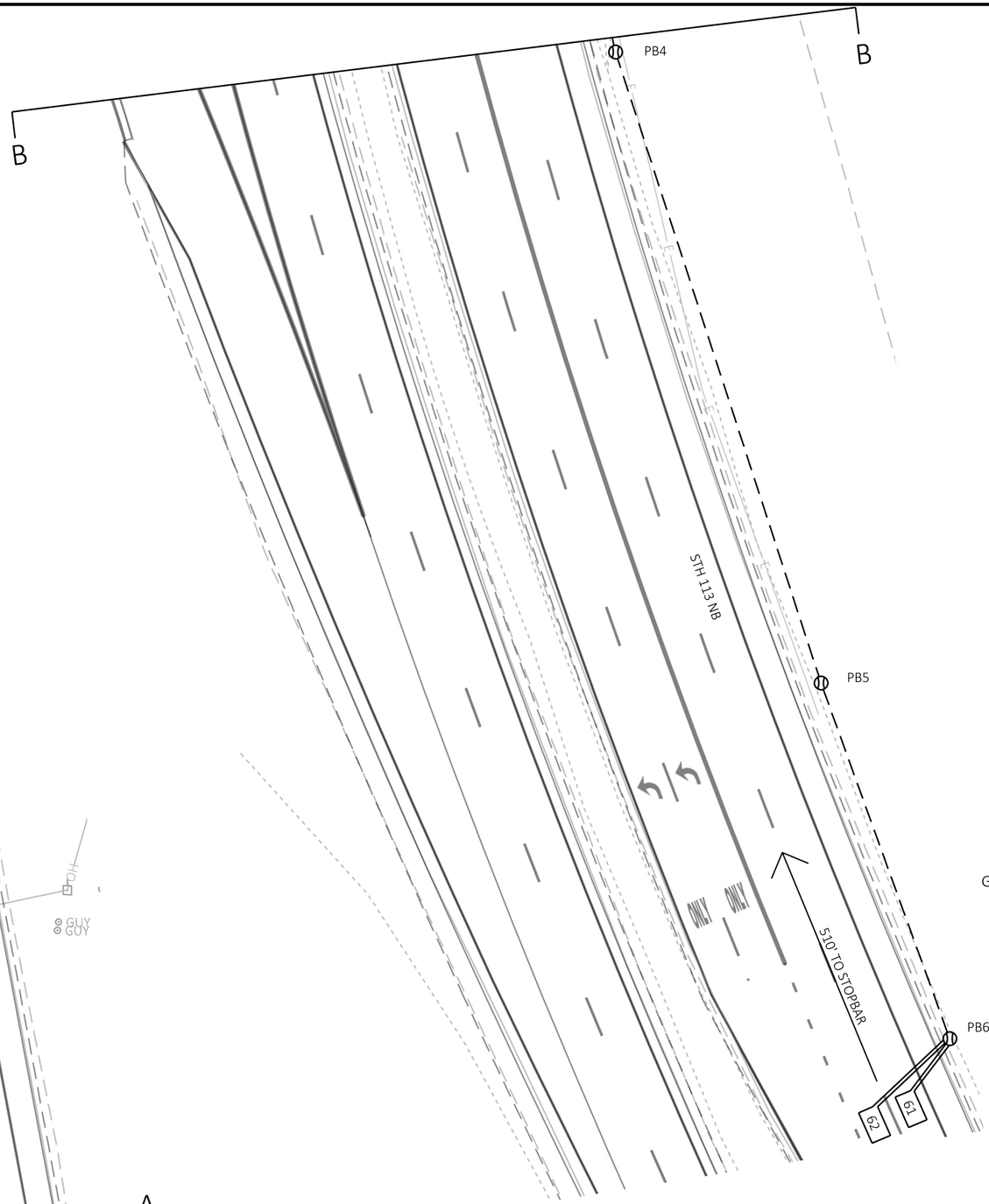
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	TRAFFIC SIGNAL REMOVAL PLAN - STH 113 & RIVER ROAD	SHEET 96	E

FILE NAME : C:\BOXDRV\BOX\DTSD-PROJECTS-PUBLIC\SWR-PROJECTS-STATE\DESIGN\54200202\TRAFFIC\ELECTRICAL\SIGNALS\024201_SP.DWG
LAYOUT NAME - 024002-sr

PLOT DATE : 10/6/2022 6:01 PM PLOT BY : WEBB, COLLIN J PLOT NAME : PLOT SCALE : 1 IN:40 FT


A
A
STH 113 SB
SAN
SAN
SAN
SAN
SAN
SAN
SAN
SAN
E
E
E





N

GENERAL NOTES:
1) ALL LOOPS SHALL BE 6'X10' AND 4 TURNS EACH
2) ALL LOOPS SHALL BE CENTERED IN LANE

TRAFFIC CONTROL SIGNAL
STH 113 & CTH M
TOWN OF WESTPORT
DANE COUNTY

SIGNAL NO. S13-0416

REGION CONTACT: COLLIN WEBB
DESIGNED BY: COLLIN WEBB
REVISED BY:

PAGE 02 OF 02

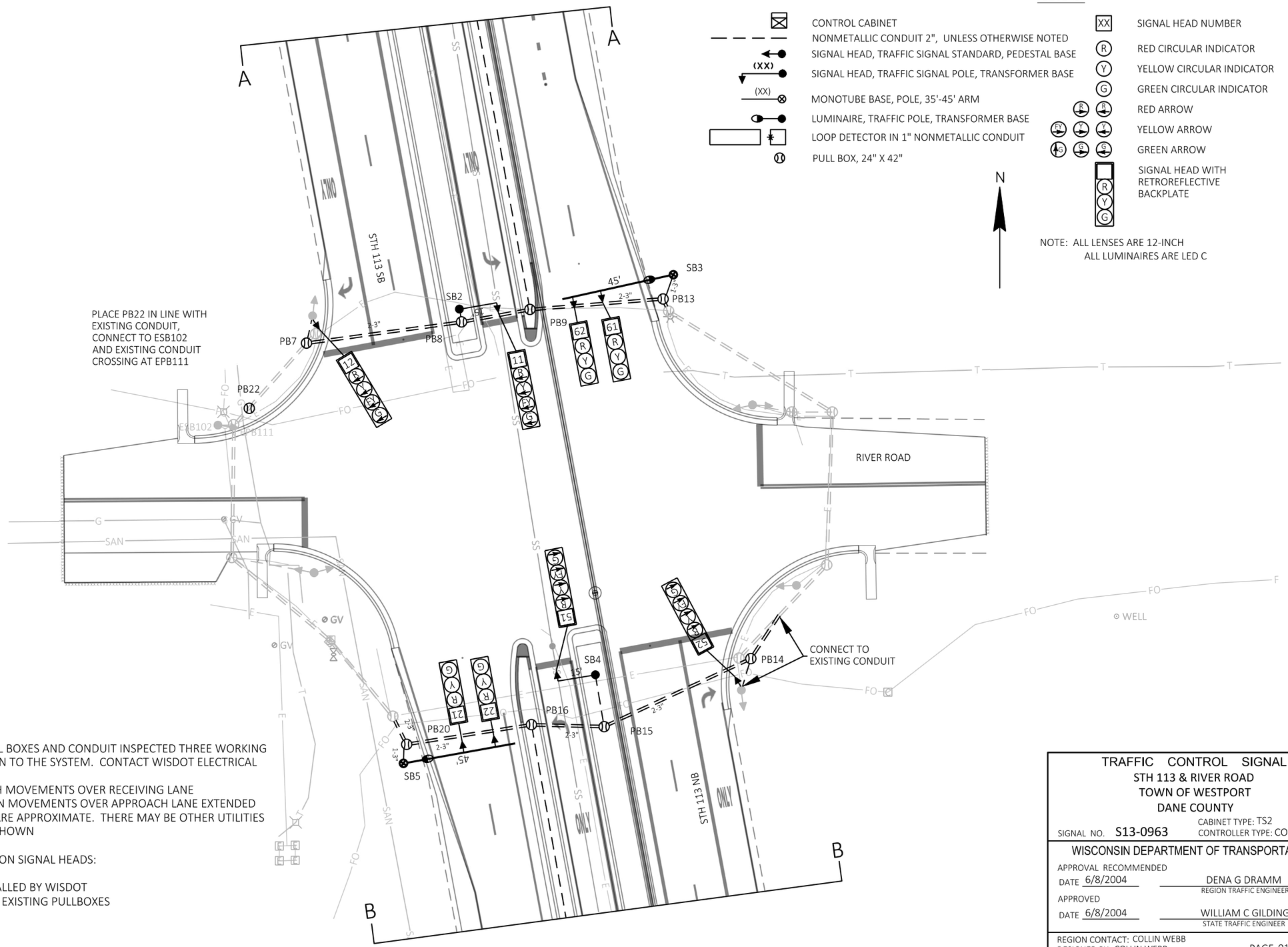
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	TRAFFIC SIGNAL PLAN - STH 113 & CTH M	SHEET 98	E

2

LEGEND

CONTROL CABINET	SIGNAL HEAD NUMBER
NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED	
SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE	RED CIRCULAR INDICATOR
SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE	YELLOW CIRCULAR INDICATOR
MONOTUBE BASE, POLE, 35'-45' ARM	GREEN CIRCULAR INDICATOR
LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE	RED ARROW
LOOP DETECTOR IN 1" NONMETALLIC CONDUIT	YELLOW ARROW
PULL BOX, 24" X 42"	GREEN ARROW
	SIGNAL HEAD WITH RETROREFLECTIVE BACKPLATE

NOTE: ALL LENSES ARE 12-INCH
ALL LUMINAIRES ARE LED C



GENERAL NOTES:

1) THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT INSPECTED THREE WORKING DAYS PRIOR TO PLACING SIGNAL CABLE IN TO THE SYSTEM. CONTACT WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS
2) CENTER HEADS CONTROLLING THROUGH MOVEMENTS OVER RECEIVING LANE
   CENTER HEADS CONTROLLING LEFT TURN MOVEMENTS OVER APPROACH LANE EXTENDED
3) THE LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT WHICH ARE NOT SHOWN
4) ALL LUMINAIRES ARE LED C
5) INSTALL RETROREFLECTIVE BACKPLATES ON SIGNAL HEADS:
   11, 12, 21, 22, 51, 52, 61, 62
6) NON-INTRUSIVE DETECTION TO BE INSTALLED BY WISDOT
7) CAP ALL ABANDONED CONDUIT ENDS IN EXISTING PULLBOXES

TRAFFIC CONTROL SIGNAL
STH 113 & RIVER ROAD
TOWN OF WESTPORT
DANE COUNTY

SIGNAL NO. S13-0963
CABINET TYPE: TS2
CONTROLLER TYPE: COBALT

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 6/8/2004 — DENA G DRAMM, REGION TRAFFIC ENGINEER

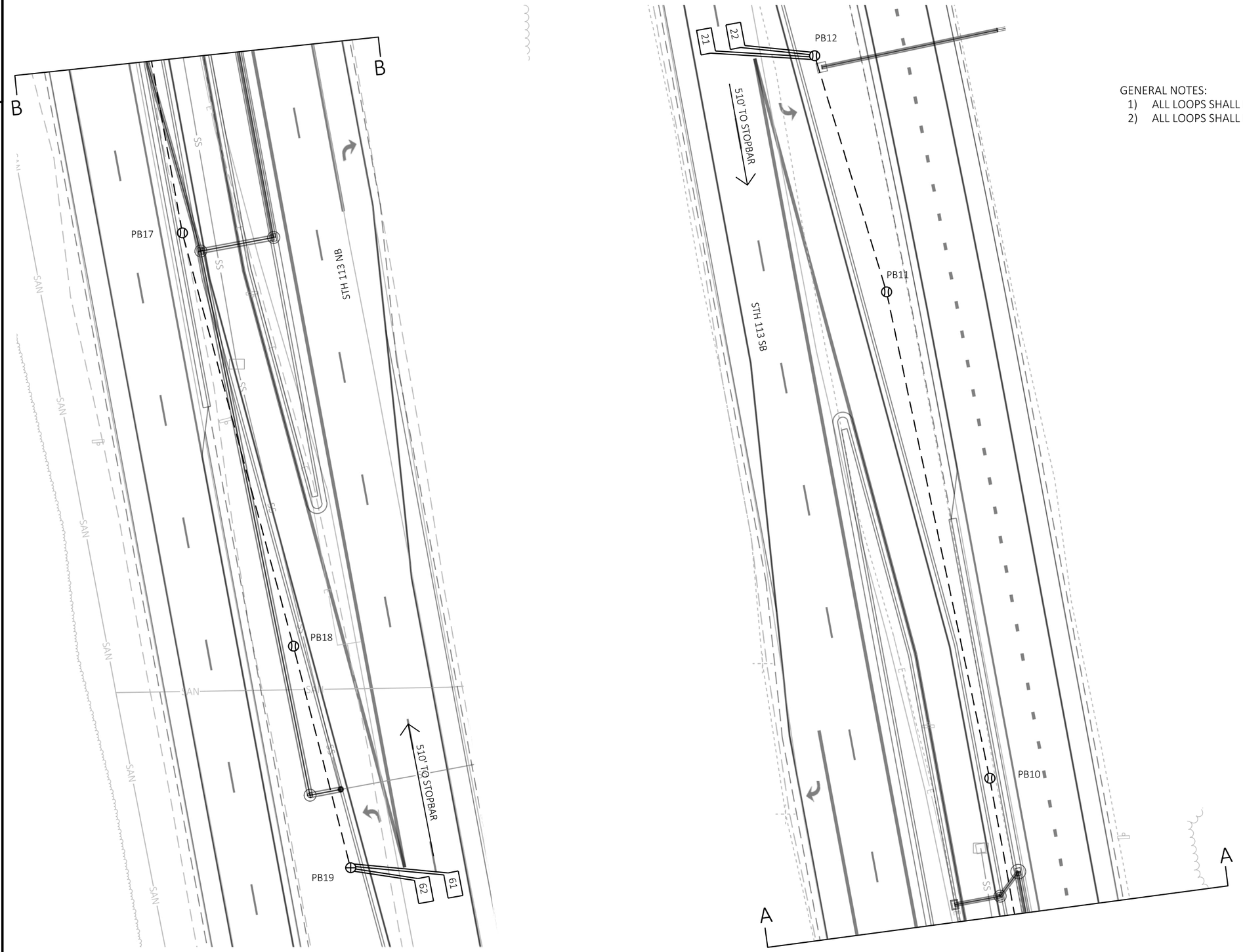
APPROVED
DATE 6/8/2004 — WILLIAM C GILDING, STATE TRAFFIC ENGINEER

REGION CONTACT: COLLIN WEBB
DESIGNED BY: COLLIN WEBB
REVISED BY:

PAGE 01 OF 02

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	TRAFFIC SIGNAL PLAN - STH 113 & RIVER ROAD	SHEET 99	E

FILE NAME : C:\BOXDRV\BOX\DTSD-PROJECTS-PUBLIC\SWR-PROJECTS-STATE\DESIGN\54200202\TRAFFIC\ELECTRICAL\SIGNALS\024201_SP.DWG
LAYOUT NAME - 024203-sp
PLOT DATE : 10/6/2022 6:01 PM
PLOT BY : WEBB, COLLIN J
PLOT NAME :
PLOT SCALE : ##########



GENERAL NOTES:
1) ALL LOOPS SHALL BE 6'X10' AND 4 TURNS EACH
2) ALL LOOPS SHALL BE CENTERED IN LANE

2

TRAFFIC CONTROL SIGNAL
STH 113 & RIVER ROAD
TOWN OF WESTPORT
DANE COUNTY

SIGNAL NO. S13-0963

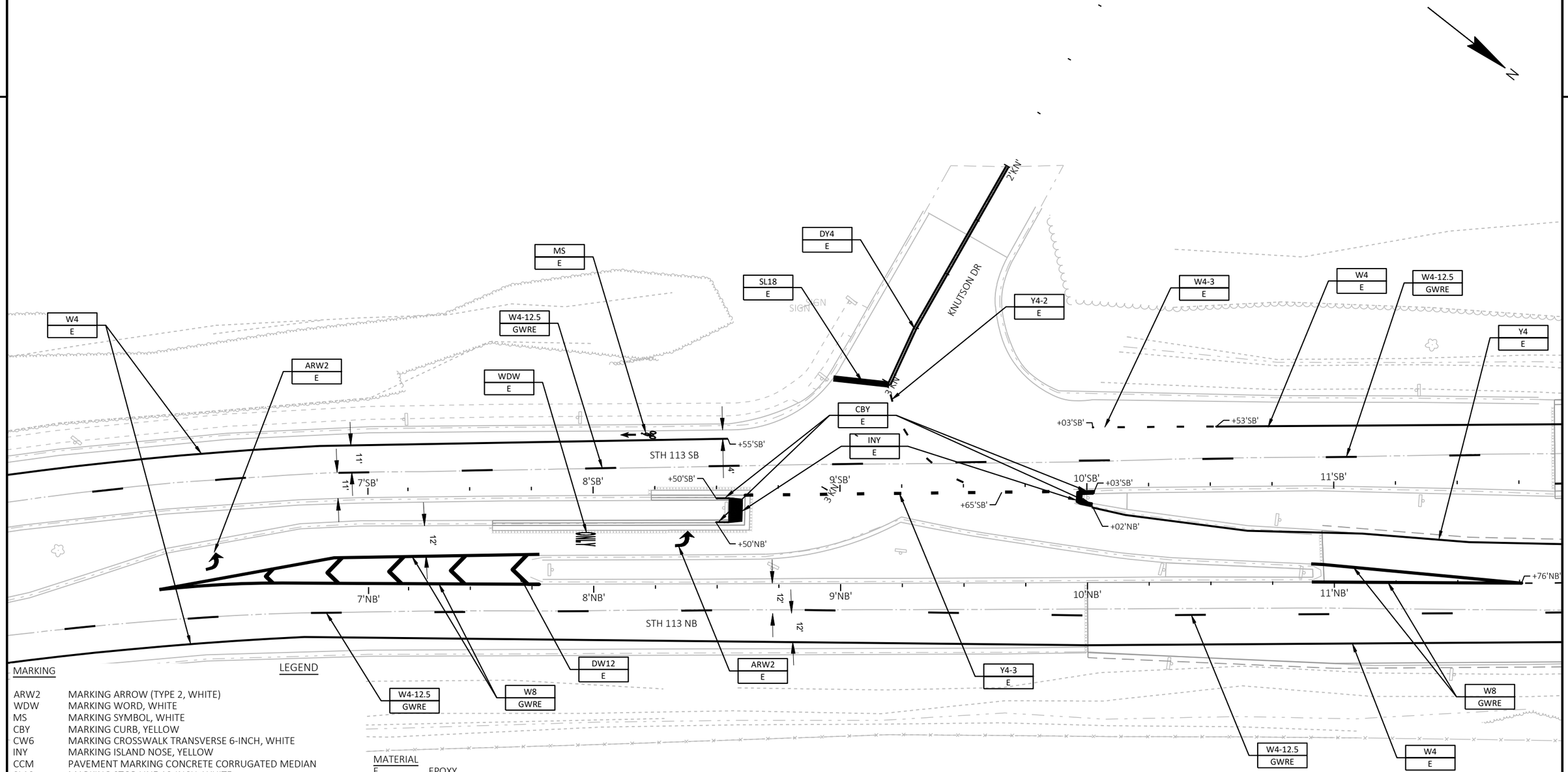
REGION CONTACT: COLLIN WEBB
DESIGNED BY: COLLIN WEBB
REVISED BY:

PAGE 02 OF 02

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	TRAFFIC SIGNAL PLAN - STH 113 & RIVER ROAD	SHEET 100	E

FILE NAME : C:\BOXDRV\BOX\DTSD-PROJECTS-PUBLIC\SWR-PROJECTS-STATE\DESIGN\54200202\TRAFFIC\ELECTRICAL\SIGNALS\024201_SP.DWG
LAYOUT NAME - 024204-sp
PLOT DATE : 10/6/2022 6:01 PM PLOT BY : WEBB, COLLIN J PLOT NAME : PLOT SCALE : ##########

2



MARKING

ARW2	MARKING ARROW (TYPE 2, WHITE)
WDW	MARKING WORD, WHITE
MS	MARKING SYMBOL, WHITE
CBY	MARKING CURB, YELLOW
CW6	MARKING CROSSWALK TRANSVERSE 6-INCH, WHITE
INY	MARKING ISLAND NOSE, YELLOW
CCM	PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN
SL18	MARKING STOP LINE 18-INCH, WHITE
W4	MARKING LINE 4-INCH, WHITE
W4-2	MARKING LINE 4-INCH, WHITE, 2' SEG., 6' GAP
W4-3	MARKING LINE 4-INCH, WHITE, 3' SEG., 9' GAP
W4-12.5	MARKING LINE 4-INCH, WHITE, 12.5' SEG., 37.5' GAP
W8	MARKING LINE 8-INCH, WHITE
W8-3	MARKING LINE 8-INCH, WHITE, 3' SEG., 9' GAP
W18-2	MARKING DOTTED EXTENSION 18-INCH, WHITE, 2' SEG., 2' GAP
DW12	MARKING DIAGONAL, 12-INCH, WHITE (25'C-C)
Y4	MARKING LINE 4-INCH, YELLOW
Y4 -2	MARKING LINE 4-INCH, YELLOW, 2' SEG., 6' GAP
Y4-3	MARKING LINE 4-INCH, YELLOW, 3' SEG., 9' GAP
DY4	MARKING LINE 4-INCH, DOUBLE YELLOW
DY12	MARKING DIAGONAL, 12-INCH, YELLOW (25'C-C)

LEGEND

MATERIAL

E	EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY

NOTE:

SEE SDDs FOR APPLICABLE PAVEMENT MARKINGS

PAVEMENT MARKING WORDS, SYMBOLS AND ARROWS
PAVEMENT MARKING, MAINLINE AND TURN LANES
MEDIAN ISLAND MARKING

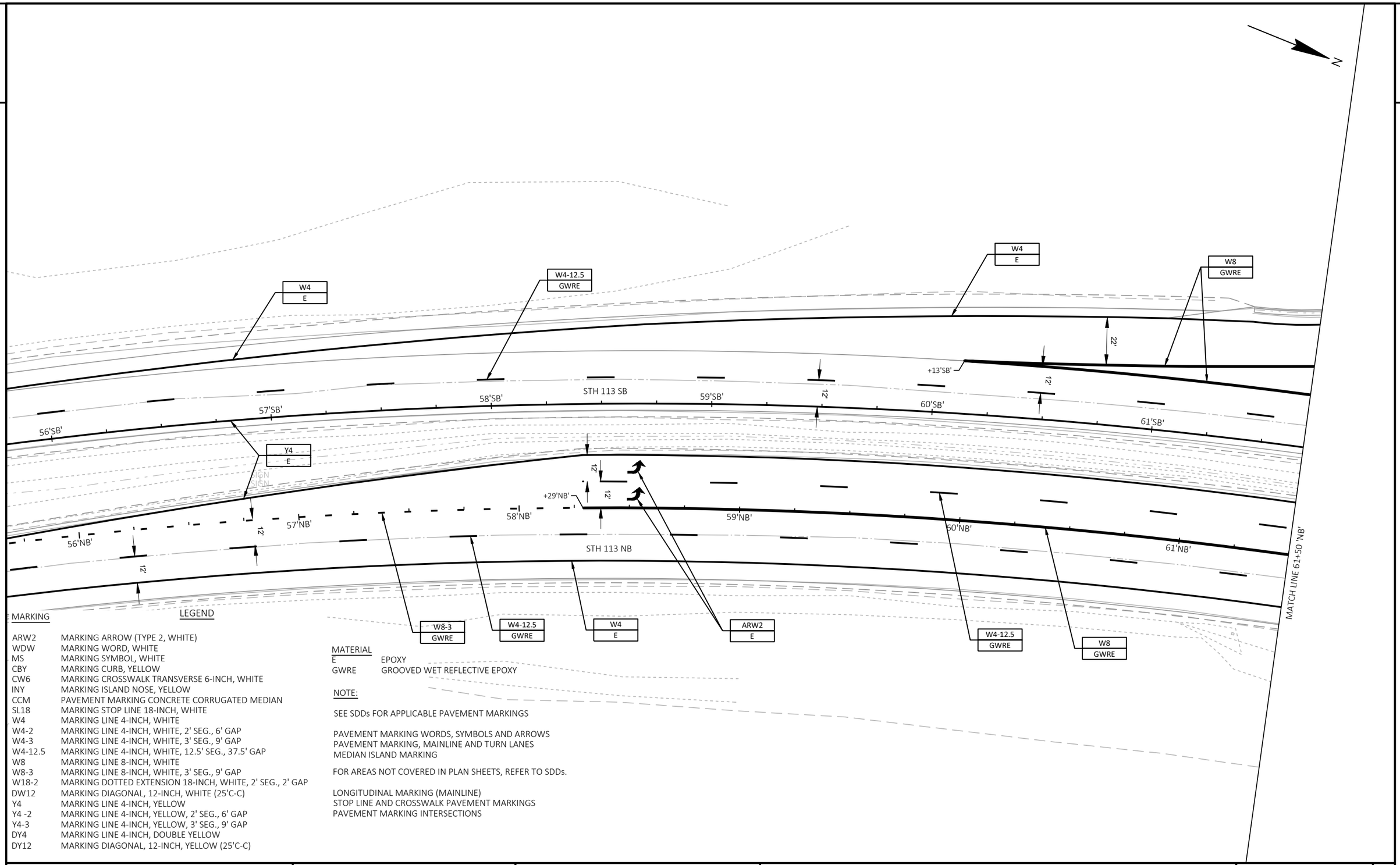
FOR AREAS NOT COVERED IN PLAN SHEETS, REFER TO SDDs.

LONGITUDINAL MARKING (MAINLINE)
STOP LINE AND CROSSWALK PAVEMENT MARKINGS
PAVEMENT MARKING INTERSECTIONS

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PAVEMENT MARKINGS	SHEET 101	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024501-pm
PLOT DATE : 10/31/2022 8:38 AM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



MARKING LEGEND

ARW2	MARKING ARROW (TYPE 2, WHITE)
WDW	MARKING WORD, WHITE
MS	MARKING SYMBOL, WHITE
CBY	MARKING CURB, YELLOW
CW6	MARKING CROSSWALK TRANSVERSE 6-INCH, WHITE
INY	MARKING ISLAND NOSE, YELLOW
CCM	PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN
SL18	MARKING STOP LINE 18-INCH, WHITE
W4	MARKING LINE 4-INCH, WHITE
W4-2	MARKING LINE 4-INCH, WHITE, 2' SEG., 6' GAP
W4-3	MARKING LINE 4-INCH, WHITE, 3' SEG., 9' GAP
W4-12.5	MARKING LINE 4-INCH, WHITE, 12.5' SEG., 37.5' GAP
W8	MARKING LINE 8-INCH, WHITE
W8-3	MARKING LINE 8-INCH, WHITE, 3' SEG., 9' GAP
W18-2	MARKING DOTTED EXTENSION 18-INCH, WHITE, 2' SEG., 2' GAP
DW12	MARKING DIAGONAL, 12-INCH, WHITE (25'C-C)
Y4	MARKING LINE 4-INCH, YELLOW
Y4 -2	MARKING LINE 4-INCH, YELLOW, 2' SEG., 6' GAP
Y4-3	MARKING LINE 4-INCH, YELLOW, 3' SEG., 9' GAP
DY4	MARKING LINE 4-INCH, DOUBLE YELLOW
DY12	MARKING DIAGONAL, 12-INCH, YELLOW (25'C-C)

MATERIAL

E	EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY

NOTE:

SEE SDDs FOR APPLICABLE PAVEMENT MARKINGS

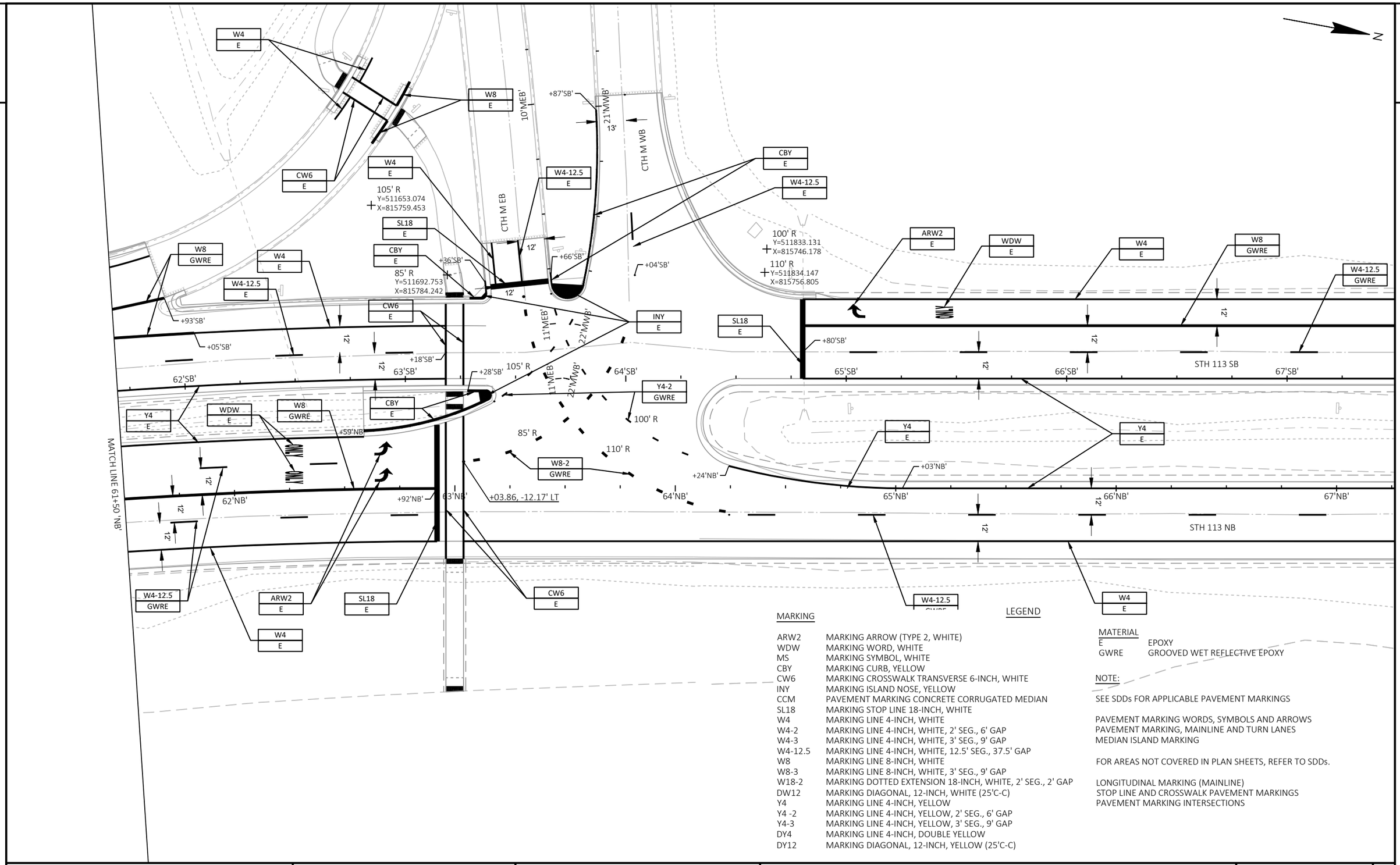
PAVEMENT MARKING WORDS, SYMBOLS AND ARROWS
PAVEMENT MARKING, MAINLINE AND TURN LANES
MEDIAN ISLAND MARKING

FOR AREAS NOT COVERED IN PLAN SHEETS, REFER TO SDDs.

LONGITUDINAL MARKING (MAINLINE)
STOP LINE AND CROSSWALK PAVEMENT MARKINGS
PAVEMENT MARKING INTERSECTIONS

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PAVEMENT MARKINGS	SHEET 102	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024502-pm
PLOT DATE : 10/31/2022 8:38 AM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



MARKING

ARW2	MARKING ARROW (TYPE 2, WHITE)
WDW	MARKING WORD, WHITE
MS	MARKING SYMBOL, WHITE
CBY	MARKING CURB, YELLOW
CW6	MARKING CROSSWALK TRANSVERSE 6-INCH, WHITE
INY	MARKING ISLAND NOSE, YELLOW
CCM	PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN
SL18	MARKING STOP LINE 18-INCH, WHITE
W4	MARKING LINE 4-INCH, WHITE
W4-2	MARKING LINE 4-INCH, WHITE, 2' SEG., 6' GAP
W4-3	MARKING LINE 4-INCH, WHITE, 3' SEG., 9' GAP
W4-12.5	MARKING LINE 4-INCH, WHITE, 12.5' SEG., 37.5' GAP
W8	MARKING LINE 8-INCH, WHITE
W8-3	MARKING LINE 8-INCH, WHITE, 3' SEG., 9' GAP
W18-2	MARKING DOTTED EXTENSION 18-INCH, WHITE, 2' SEG., 2' GAP
DW12	MARKING DIAGONAL, 12-INCH, WHITE (25'C-C)
Y4	MARKING LINE 4-INCH, YELLOW
Y4 -2	MARKING LINE 4-INCH, YELLOW, 2' SEG., 6' GAP
Y4-3	MARKING LINE 4-INCH, YELLOW, 3' SEG., 9' GAP
DY4	MARKING LINE 4-INCH, DOUBLE YELLOW
DY12	MARKING DIAGONAL, 12-INCH, YELLOW (25'C-C)

LEGEND

MATERIAL

E	EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY

NOTE:

SEE SDDs FOR APPLICABLE PAVEMENT MARKINGS

PAVEMENT MARKING WORDS, SYMBOLS AND ARROWS
PAVEMENT MARKING, MAINLINE AND TURN LANES
MEDIAN ISLAND MARKING

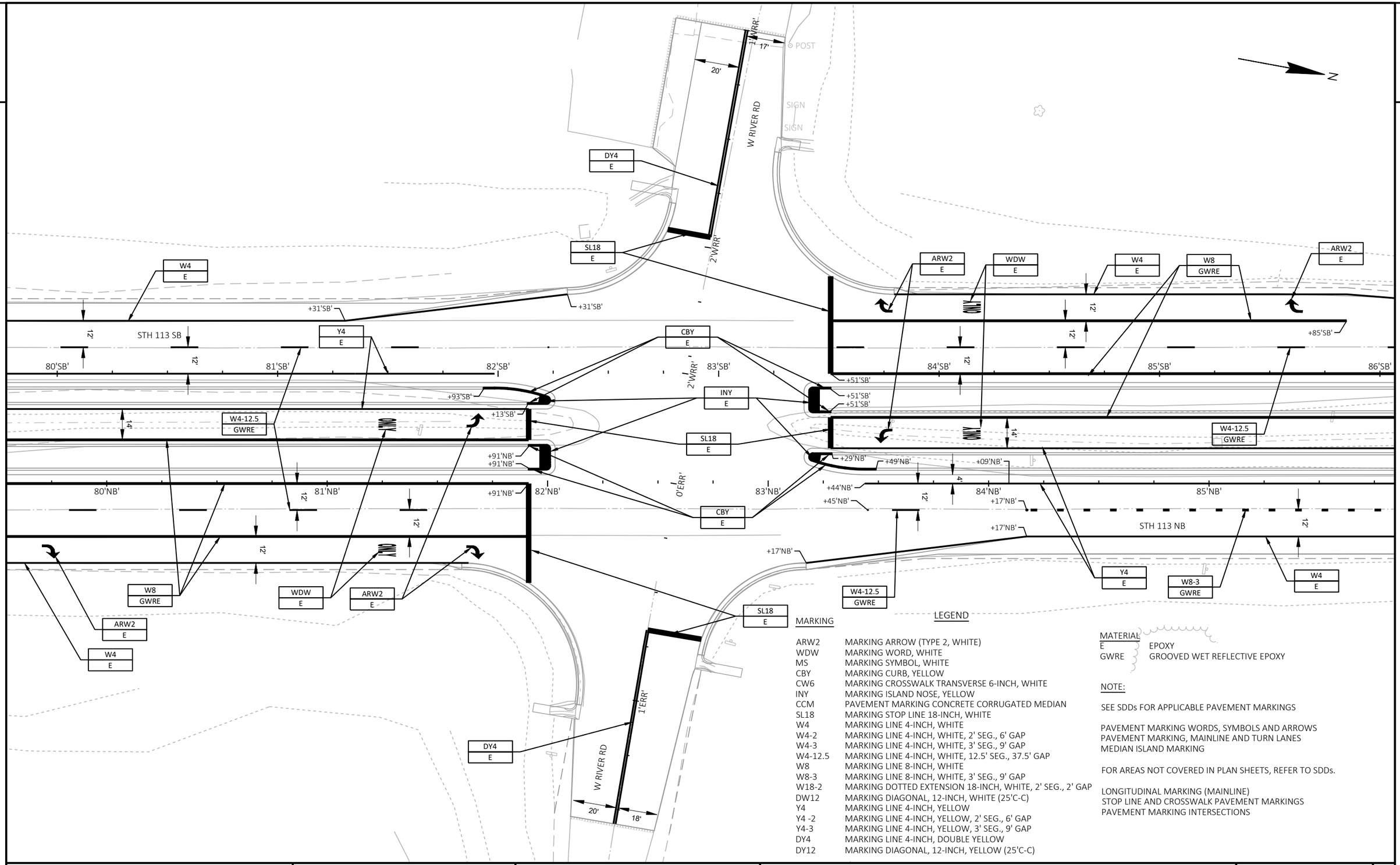
FOR AREAS NOT COVERED IN PLAN SHEETS, REFER TO SDDs.

LONGITUDINAL MARKING (MAINLINE)
STOP LINE AND CROSSWALK PAVEMENT MARKINGS
PAVEMENT MARKING INTERSECTIONS

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PAVEMENT MARKINGS	SHEET 103	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024503-pm
PLOT DATE : 10/31/2022 8:38 AM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



MARKING

ARW2	MARKING ARROW (TYPE 2, WHITE)
WDW	MARKING WORD, WHITE
MS	MARKING SYMBOL, WHITE
CBY	MARKING CURB, YELLOW
CW6	MARKING CROSSWALK TRANSVERSE 6-INCH, WHITE
INY	MARKING ISLAND NOSE, YELLOW
CCM	PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN
SL18	MARKING STOP LINE 18-INCH, WHITE
W4	MARKING LINE 4-INCH, WHITE
W4-2	MARKING LINE 4-INCH, WHITE, 2' SEG., 6' GAP
W4-3	MARKING LINE 4-INCH, WHITE, 3' SEG., 9' GAP
W4-12.5	MARKING LINE 4-INCH, WHITE, 12.5' SEG., 37.5' GAP
W8	MARKING LINE 8-INCH, WHITE
W8-3	MARKING LINE 8-INCH, WHITE, 3' SEG., 9' GAP
W18-2	MARKING DOTTED EXTENSION 18-INCH, WHITE, 2' SEG., 2' GAP
DW12	MARKING DIAGONAL, 12-INCH, WHITE (25'C-C)
Y4	MARKING LINE 4-INCH, YELLOW
Y4 -2	MARKING LINE 4-INCH, YELLOW, 2' SEG., 6' GAP
Y4-3	MARKING LINE 4-INCH, YELLOW, 3' SEG., 9' GAP
DY4	MARKING LINE 4-INCH, DOUBLE YELLOW
DY12	MARKING DIAGONAL, 12-INCH, YELLOW (25'C-C)

LEGEND

MATERIAL

E	EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY

NOTE:

SEE SDDs FOR APPLICABLE PAVEMENT MARKINGS

PAVEMENT MARKING WORDS, SYMBOLS AND ARROWS
PAVEMENT MARKING, MAINLINE AND TURN LANES
MEDIAN ISLAND MARKING

FOR AREAS NOT COVERED IN PLAN SHEETS, REFER TO SDDs.

LONGITUDINAL MARKING (MAINLINE)
STOP LINE AND CROSSWALK PAVEMENT MARKINGS
PAVEMENT MARKING INTERSECTIONS

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PAVEMENT MARKINGS	SHEET 104	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024504-pm
PLOT DATE : 10/31/2022 8:38 AM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

N

W4
E

W4-12.5
GWRE

CCM
E

12'

12'

91'SB'

92'SB'

93'SB'

STH 113 SB

94'SB'

95'SB'

MATCH LINE 95+00 'NB'

Y4
E

91'NB'

92'NB'

+72'NB'

94'NB'

95'

12'

12'

STH 113 NB

W8-3
GWRE

W4
E

ARW2
E

W8
GWRE

LEGEND

MARKING

ARW2	MARKING ARROW (TYPE 2, WHITE)
WDW	MARKING WORD, WHITE
MS	MARKING SYMBOL, WHITE
CBY	MARKING CURB, YELLOW
CW6	MARKING CROSSWALK TRANSVERSE 6-INCH, WHITE
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SL18	MARKING STOP LINE 18-INCH, WHITE
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DY12	MARKING DIAGONAL, 12-INCH, YELLOW (25'C-C)

MATERIAL

E	EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY

NOTE:

SEE SDDs FOR APPLICABLE PAVEMENT MARKINGS

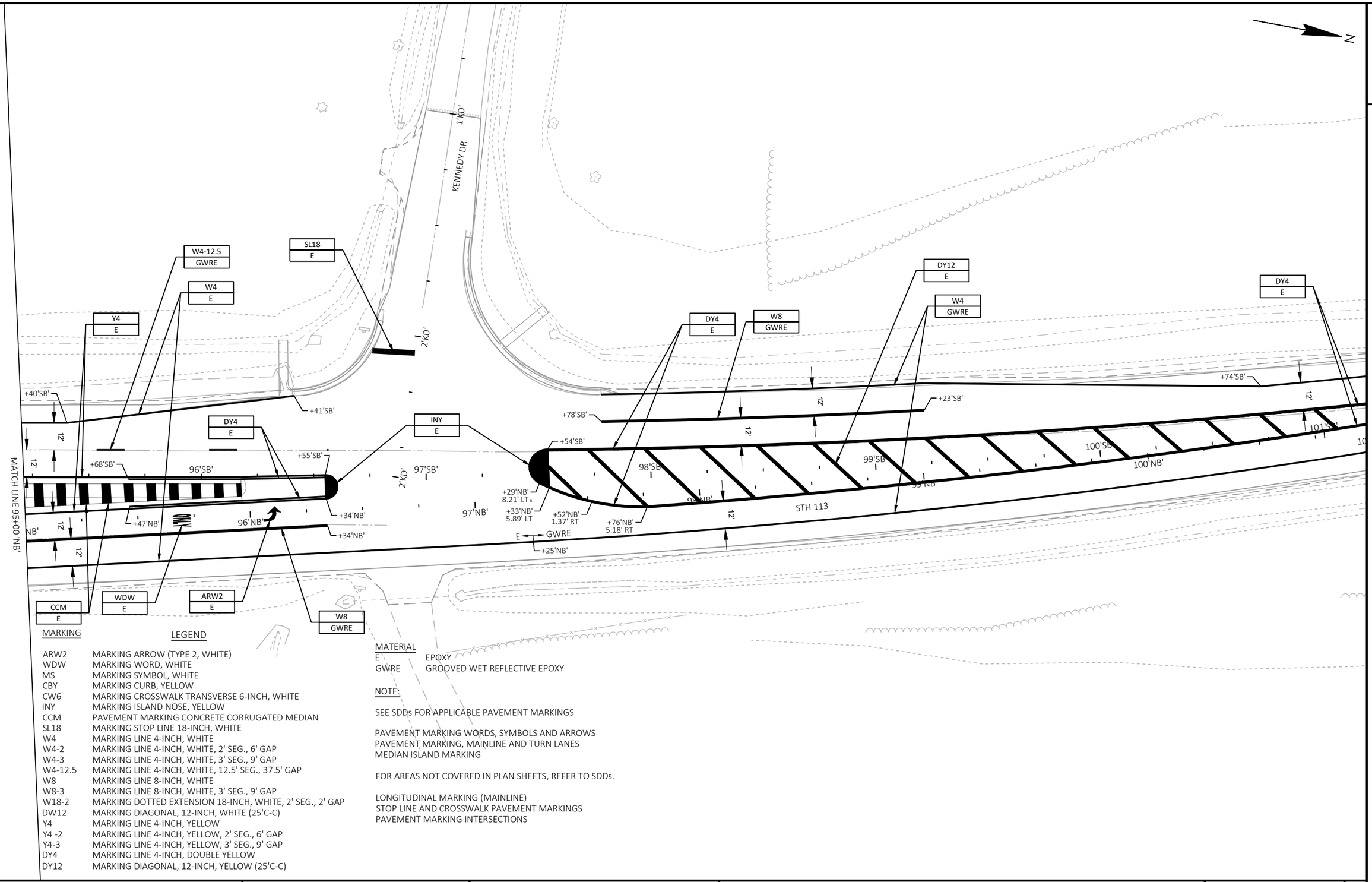
PAVEMENT MARKING WORDS, SYMBOLS AND ARROWS
PAVEMENT MARKING, MAINLINE AND TURN LANES
MEDIAN ISLAND MARKING

FOR AREAS NOT COVERED IN PLAN SHEETS, REFER TO SDDs.

LONGITUDINAL MARKING (MAINLINE)
STOP LINE AND CROSSWALK PAVEMENT MARKINGS
PAVEMENT MARKING INTERSECTIONS

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PAVEMENT MARKINGS	SHEET 105	E

2



MARKING

LEGEND

ARW2	MARKING ARROW (TYPE 2, WHITE)
WDW	MARKING WORD, WHITE
MS	MARKING SYMBOL, WHITE
CBY	MARKING CURB, YELLOW
CW6	MARKING CROSSWALK TRANSVERSE 6-INCH, WHITE
INY	MARKING ISLAND NOSE, YELLOW
CCM	PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN
SL18	MARKING STOP LINE 18-INCH, WHITE
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W8	MARKING LINE 8-INCH, WHITE
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DY12	MARKING DIAGONAL, 12-INCH, YELLOW (25'C-C)

MATERIAL

E	EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY

NOTE:

SEE SDDs FOR APPLICABLE PAVEMENT MARKINGS

PAVEMENT MARKING WORDS, SYMBOLS AND ARROWS
PAVEMENT MARKING, MAINLINE AND TURN LANES
MEDIAN ISLAND MARKING

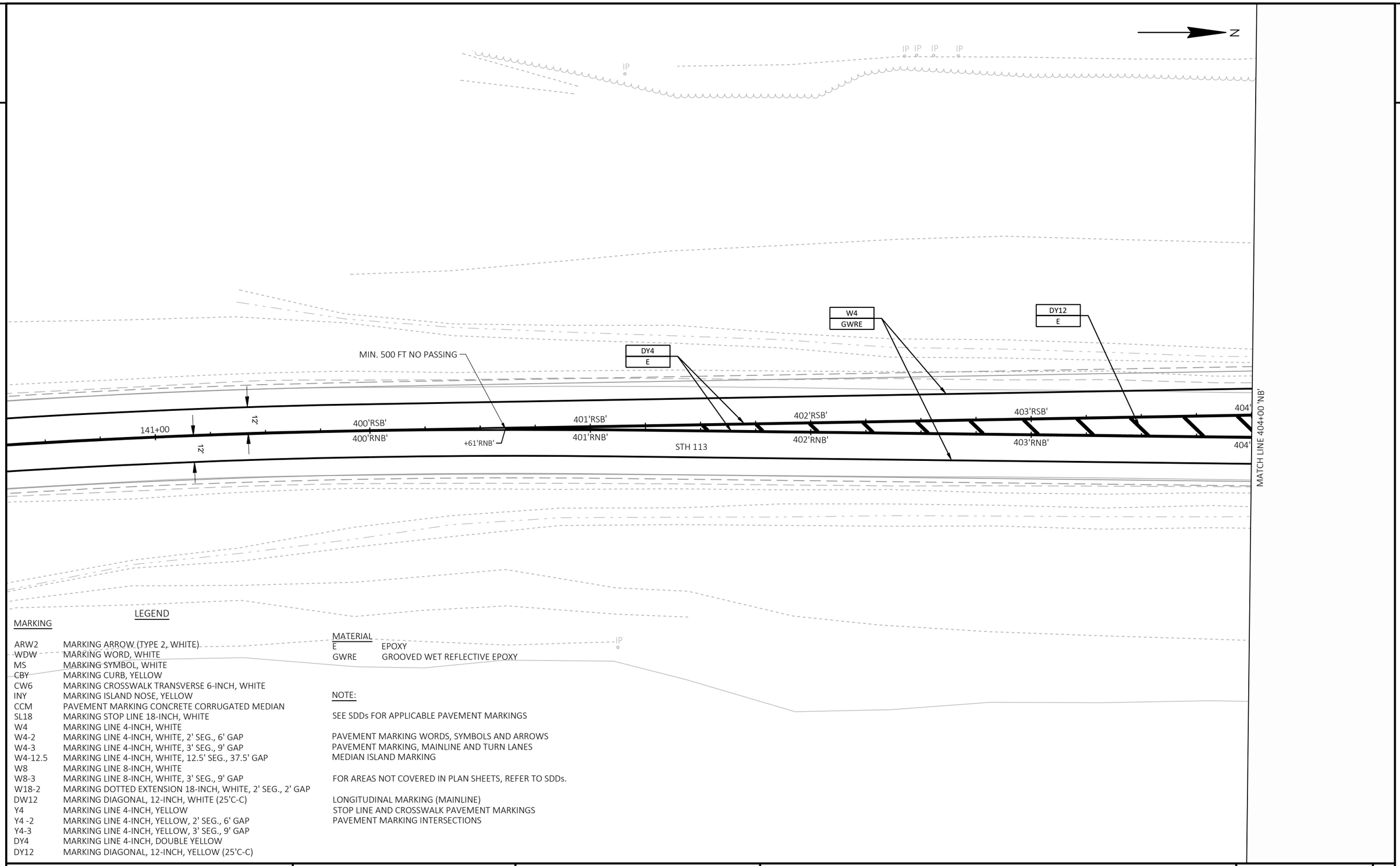
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LONGITUDINAL MARKING (MAINLINE)
STOP LINE AND CROSSWALK PAVEMENT MARKINGS
PAVEMENT MARKING INTERSECTIONS

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PAVEMENT MARKINGS	SHEET 106	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024506-pm
PLOT DATE : 10/31/2022 8:38 AM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

MARKING

ARW2	MARKING ARROW (TYPE 2, WHITE)
WDW	MARKING WORD, WHITE
MS	MARKING SYMBOL, WHITE
CBY	MARKING CURB, YELLOW
CW6	MARKING CROSSWALK TRANSVERSE 6-INCH, WHITE
INY	MARKING ISLAND NOSE, YELLOW
CCM	PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN
SL18	MARKING STOP LINE 18-INCH, WHITE
W4	MARKING LINE 4-INCH, WHITE
W4-2	MARKING LINE 4-INCH, WHITE, 2' SEG., 6' GAP
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W4-12.5	MARKING LINE 4-INCH, WHITE, 12.5' SEG., 37.5' GAP
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MATERIAL

E	EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY

NOTE:

SEE SDDs FOR APPLICABLE PAVEMENT MARKINGS

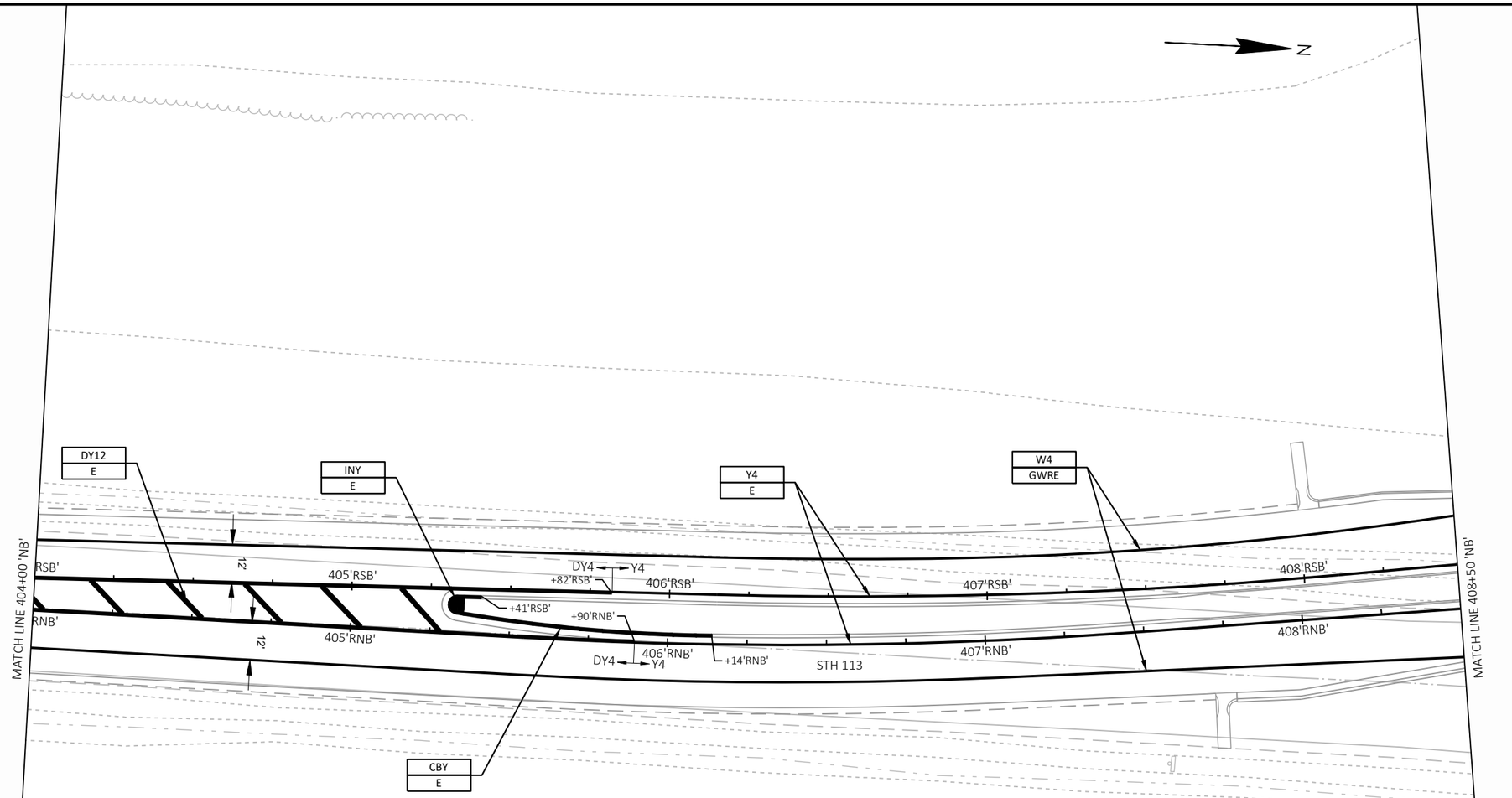
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MEDIAN ISLAND MARKING

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LONGITUDINAL MARKING (MAINLINE)
STOP LINE AND CROSSWALK PAVEMENT MARKINGS
PAVEMENT MARKING INTERSECTIONS

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PAVEMENT MARKINGS	SHEET 107	E

2



LEGEND

MARKING

ARW2	MARKING ARROW (TYPE 2, WHITE)
WDW	MARKING WORD, WHITE
MS	MARKING SYMBOL, WHITE
CBY	MARKING CURB, YELLOW
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MATERIAL

E	EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY

NOTE:

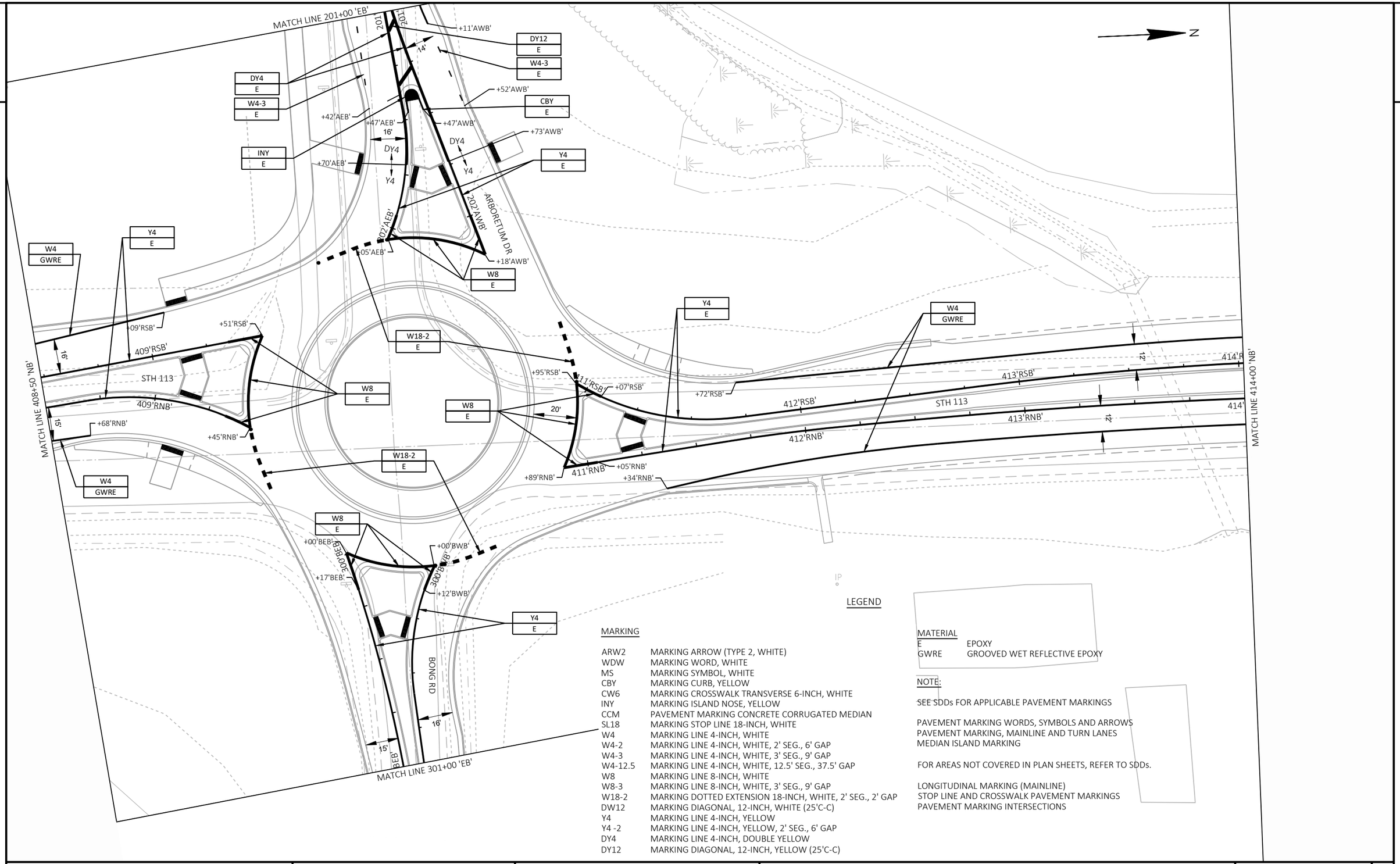
SEE SDDs FOR APPLICABLE PAVEMENT MARKINGS

PAVEMENT MARKING WORDS, SYMBOLS AND ARROWS
PAVEMENT MARKING, MAINLINE AND TURN LANES
MEDIAN ISLAND MARKING

FOR AREAS NOT COVERED IN PLAN SHEETS, REFER TO SDDs.

LONGITUDINAL MARKING (MAINLINE)
STOP LINE AND CROSSWALK PAVEMENT MARKINGS
PAVEMENT MARKING INTERSECTIONS

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PAVEMENT MARKINGS	SHEET 108	E



LEGEND

MARKING

ARW2	MARKING ARROW (TYPE 2, WHITE)
WDW	MARKING WORD, WHITE
MS	MARKING SYMBOL, WHITE
CBY	MARKING CURB, YELLOW
CW6	MARKING CROSSWALK TRANSVERSE 6-INCH, WHITE
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DY4	MARKING LINE 4-INCH, DOUBLE YELLOW
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MATERIAL

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GWRE	GROOVED WET REFLECTIVE EPOXY

NOTE:

SEE SDDs FOR APPLICABLE PAVEMENT MARKINGS

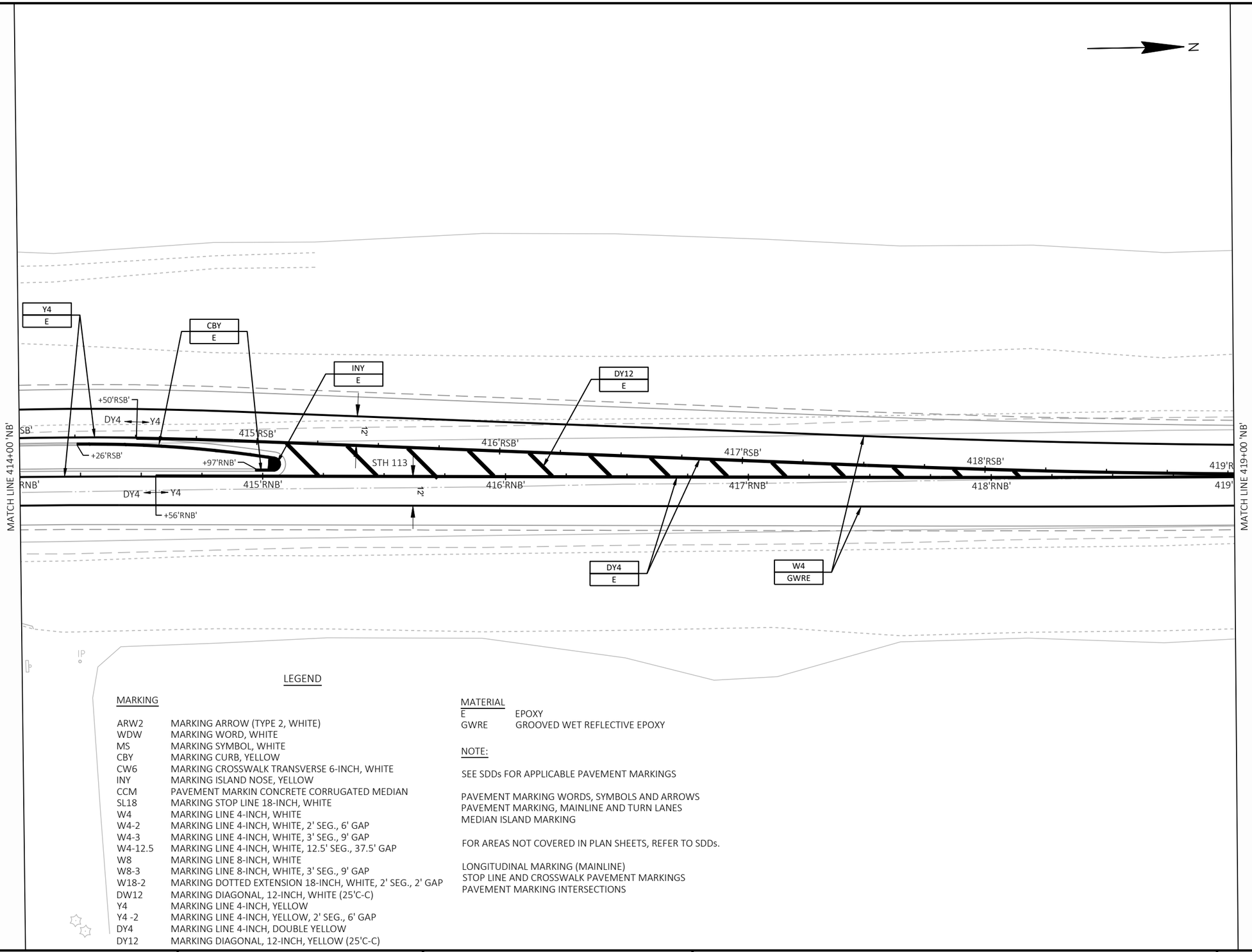
PAVEMENT MARKING WORDS, SYMBOLS AND ARROWS
PAVEMENT MARKING, MAINLINE AND TURN LANES
MEDIAN ISLAND MARKING

FOR AREAS NOT COVERED IN PLAN SHEETS, REFER TO SDDs.

LONGITUDINAL MARKING (MAINLINE)
STOP LINE AND CROSSWALK PAVEMENT MARKINGS
PAVEMENT MARKING INTERSECTIONS

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PAVEMENT MARKINGS	SHEET 109	E

2



LEGEND

MARKING

ARW2	MARKING ARROW (TYPE 2, WHITE)
WDW	MARKING WORD, WHITE
MS	MARKING SYMBOL, WHITE
CBY	MARKING CURB, YELLOW
CW6	MARKING CROSSWALK TRANSVERSE 6-INCH, WHITE
INY	MARKING ISLAND NOSE, YELLOW
CCM	PAVEMENT MARKIN CONCRETE CORRUGATED MEDIAN
SL18	MARKING STOP LINE 18-INCH, WHITE
W4	MARKING LINE 4-INCH, WHITE
W4-2	MARKING LINE 4-INCH, WHITE, 2' SEG., 6' GAP
W4-3	MARKING LINE 4-INCH, WHITE, 3' SEG., 9' GAP
W4-12.5	MARKING LINE 4-INCH, WHITE, 12.5' SEG., 37.5' GAP
W8	MARKING LINE 8-INCH, WHITE
W8-3	MARKING LINE 8-INCH, WHITE, 3' SEG., 9' GAP
W18-2	MARKING DOTTED EXTENSION 18-INCH, WHITE, 2' SEG., 2' GAP
DW12	MARKING DIAGONAL, 12-INCH, WHITE (25'C-C)
Y4	MARKING LINE 4-INCH, YELLOW
Y4 -2	MARKING LINE 4-INCH, YELLOW, 2' SEG., 6' GAP
DY4	MARKING LINE 4-INCH, DOUBLE YELLOW
DY12	MARKING DIAGONAL, 12-INCH, YELLOW (25'C-C)

MATERIAL

E	EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY

NOTE:

SEE SDDs FOR APPLICABLE PAVEMENT MARKINGS

PAVEMENT MARKING WORDS, SYMBOLS AND ARROWS
PAVEMENT MARKING, MAINLINE AND TURN LANES
MEDIAN ISLAND MARKING

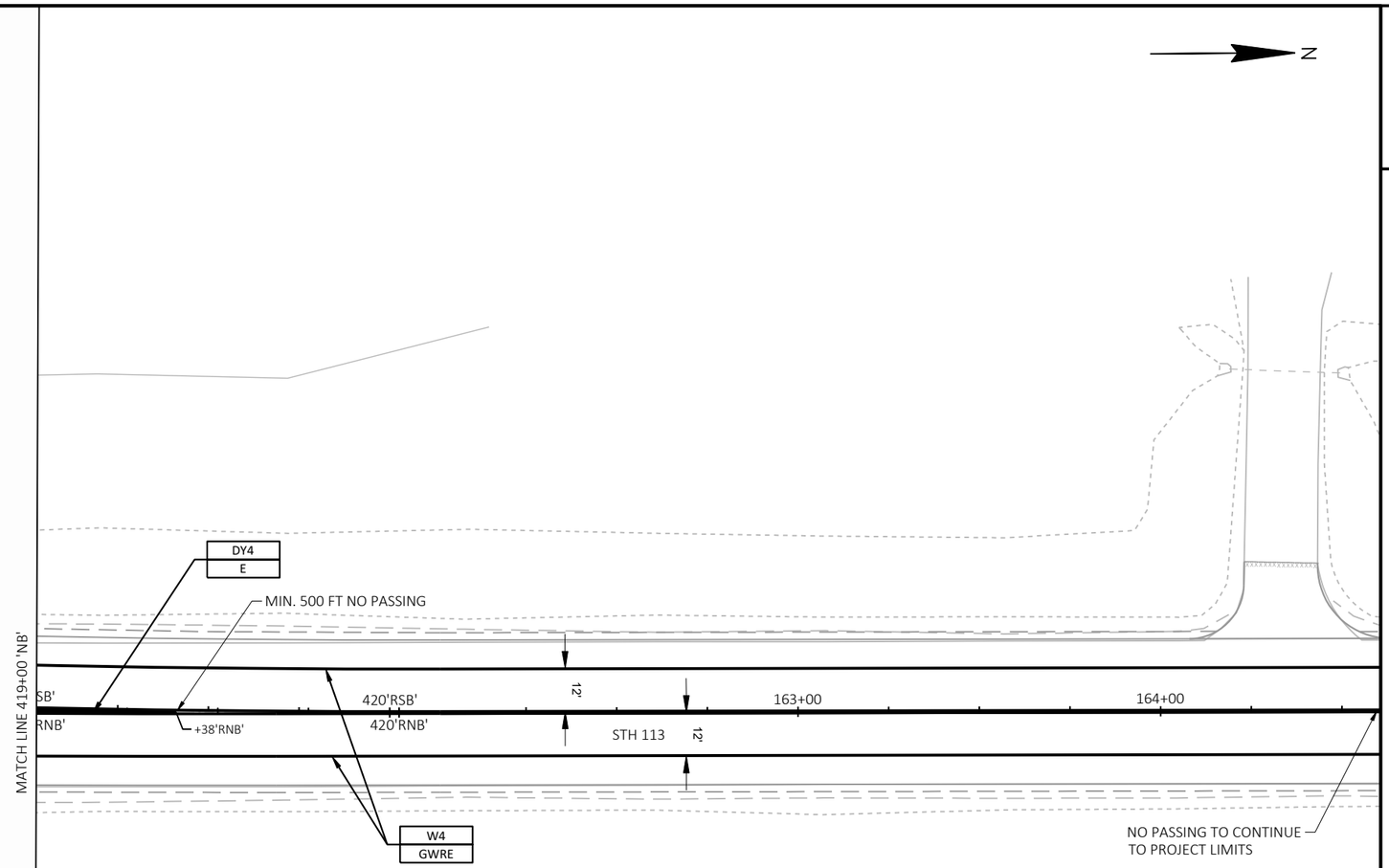
FOR AREAS NOT COVERED IN PLAN SHEETS, REFER TO SDDs.

LONGITUDINAL MARKING (MAINLINE)
STOP LINE AND CROSSWALK PAVEMENT MARKINGS
PAVEMENT MARKING INTERSECTIONS

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PAVEMENT MARKINGS	SHEET 110	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024510-pm
PLOT DATE : 10/31/2022 8:38 AM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

MARKING

ARW2	MARKING ARROW (TYPE 2, WHITE)
WDW	MARKING WORD, WHITE
MS	MARKING SYMBOL, WHITE
CBY	MARKING CURB, YELLOW
CW6	MARKING CROSSWALK TRANSVERSE 6-INCH, WHITE
INY	MARKING ISLAND NOSE, YELLOW
CCM	PAVEMENT MARKIN CONCRETE CORRUGATED MEDIAN
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W8	MARKING LINE 8-INCH, WHITE
W8-3	MARKING LINE 8-INCH, WHITE, 3' SEG., 9' GAP
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DW12	MARKING DIAGONAL, 12-INCH, WHITE (25'C-C)
Y4	MARKING LINE 4-INCH, YELLOW
Y4 -2	MARKING LINE 4-INCH, YELLOW, 2' SEG., 6' GAP
DY4	MARKING LINE 4-INCH, DOUBLE YELLOW
DY12	MARKING DIAGONAL, 12-INCH, YELLOW (25'C-C)

MATERIAL

E	EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY

NOTE:

SEE SDDs FOR APPLICABLE PAVEMENT MARKINGS

PAVEMENT MARKING WORDS, SYMBOLS AND ARROWS
PAVEMENT MARKING, MAINLINE AND TURN LANES
MEDIAN ISLAND MARKING

FOR AREAS NOT COVERED IN PLAN SHEETS, REFER TO SDDs.

LONGITUDINAL MARKING (MAINLINE)
STOP LINE AND CROSSWALK PAVEMENT MARKINGS
PAVEMENT MARKING INTERSECTIONS

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PAVEMENT MARKINGS	SHEET 111	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024511-pm
PLOT DATE : 10/31/2022 8:38 AM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

MARKING

ARW2	MARKING ARROW (TYPE 2, WHITE)
WDW	MARKING WORD, WHITE
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CBY	MARKING CURB, YELLOW
CW6	MARKING CROSSWALK TRANSVERSE 6-INCH, WHITE
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W8-3	MARKING LINE 8-INCH, WHITE, 3' SEG., 9' GAP
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Y4 -2	MARKING LINE 4-INCH, YELLOW, 2' SEG., 6' GAP
DY4	MARKING LINE 4-INCH, DOUBLE YELLOW
DY12	MARKING DIAGONAL, 12-INCH, YELLOW (25'C-C)

MATERIAL

E	EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY

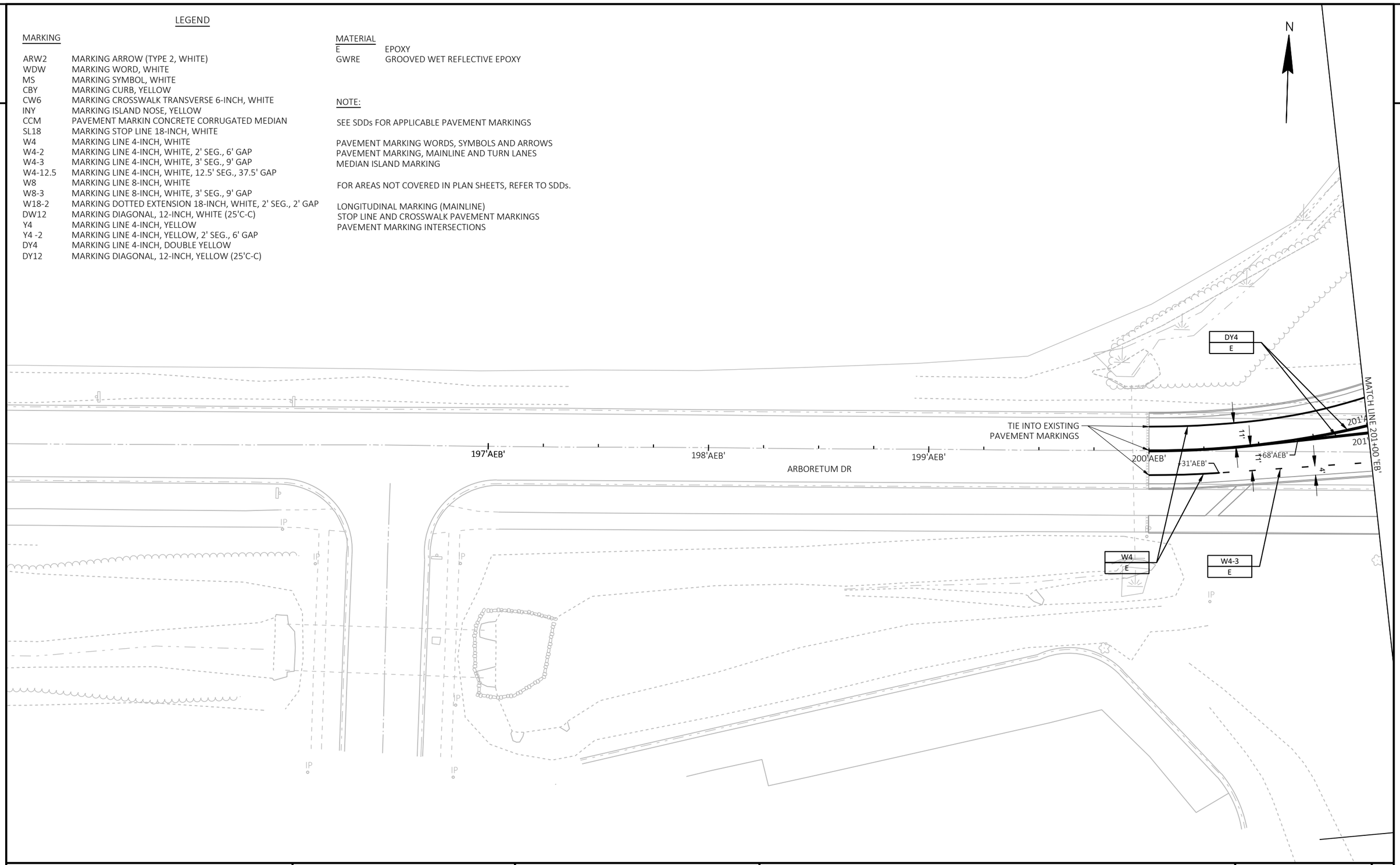
NOTE:

SEE SDDs FOR APPLICABLE PAVEMENT MARKINGS

PAVEMENT MARKING WORDS, SYMBOLS AND ARROWS
PAVEMENT MARKING, MAINLINE AND TURN LANES
MEDIAN ISLAND MARKING

FOR AREAS NOT COVERED IN PLAN SHEETS, REFER TO SDDs.

LONGITUDINAL MARKING (MAINLINE)
STOP LINE AND CROSSWALK PAVEMENT MARKINGS
PAVEMENT MARKING INTERSECTIONS



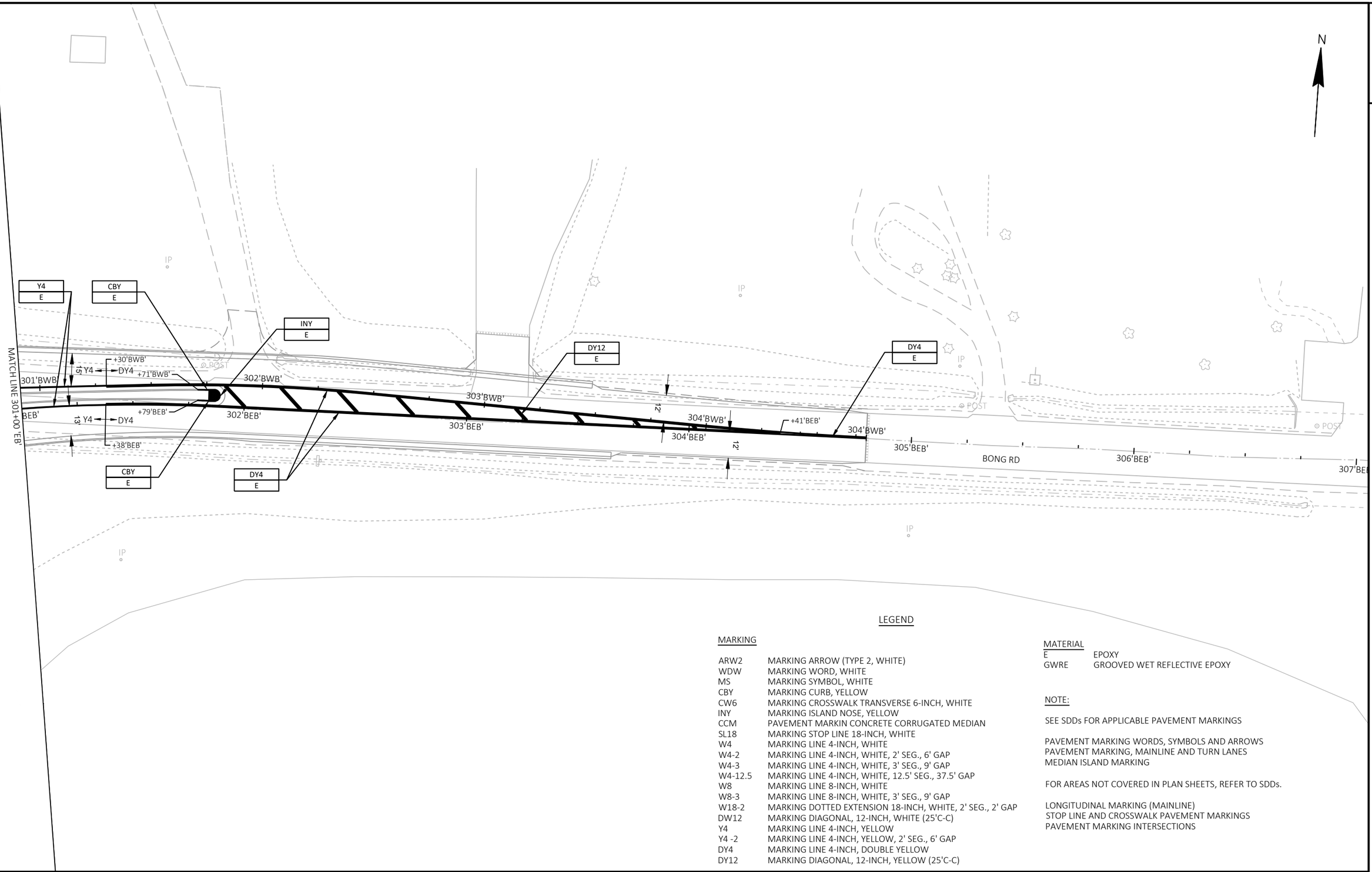
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PAVEMENT MARKINGS	SHEET 112 E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024512-pm

PLOT DATE : 10/31/2022 8:38 AM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



LEGEND

MARKING

ARW2	MARKING ARROW (TYPE 2, WHITE)
WDW	MARKING WORD, WHITE
MS	MARKING SYMBOL, WHITE
CBY	MARKING CURB, YELLOW
CW6	MARKING CROSSWALK TRANSVERSE 6-INCH, WHITE
INY	MARKING ISLAND NOSE, YELLOW
CCM	PAVEMENT MARKIN CONCRETE CORRUGATED MEDIAN
SL18	MARKING STOP LINE 18-INCH, WHITE
W4	MARKING LINE 4-INCH, WHITE
W4-2	MARKING LINE 4-INCH, WHITE, 2' SEG., 6' GAP
W4-3	MARKING LINE 4-INCH, WHITE, 3' SEG., 9' GAP
W4-12.5	MARKING LINE 4-INCH, WHITE, 12.5' SEG., 37.5' GAP
W8	MARKING LINE 8-INCH, WHITE
W8-3	MARKING LINE 8-INCH, WHITE, 3' SEG., 9' GAP
W18-2	MARKING DOTTED EXTENSION 18-INCH, WHITE, 2' SEG., 2' GAP
DW12	MARKING DIAGONAL, 12-INCH, WHITE (25'C-C)
Y4	MARKING LINE 4-INCH, YELLOW
Y4 -2	MARKING LINE 4-INCH, YELLOW, 2' SEG., 6' GAP
DY4	MARKING LINE 4-INCH, DOUBLE YELLOW
DY12	MARKING DIAGONAL, 12-INCH, YELLOW (25'C-C)

MATERIAL

E	EPOXY
GWRE	GROOVED WET REFLECTIVE EPOXY

NOTE:

SEE SDDs FOR APPLICABLE PAVEMENT MARKINGS

PAVEMENT MARKING WORDS, SYMBOLS AND ARROWS
PAVEMENT MARKING, MAINLINE AND TURN LANES
MEDIAN ISLAND MARKING

FOR AREAS NOT COVERED IN PLAN SHEETS, REFER TO SDDs.

LONGITUDINAL MARKING (MAINLINE)
STOP LINE AND CROSSWALK PAVEMENT MARKINGS
PAVEMENT MARKING INTERSECTIONS

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PAVEMENT MARKINGS	SHEET 113	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024513-pm
PLOT DATE : 10/31/2022 8:38 AM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

GENERAL NOTES FOR TRAFFIC CONTROL

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

2) A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE WORK AREAS IF WARRANTED BY CONDITIONS OR AS DIRECTED BY THE ENGINEER.

3) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

4) FOR NIGHTTIME OPERATION, ALL DRUMS IN TAPERS SHALL HAVE A TYPE "C" WARNING LIGHT.

5) ALL TYPE III BARRICADES WITH SIGNS SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED, AND EQUIPPED WITH TWO TYPE "A" (LOW INTENSITY FLASHING) LIGHTS.

6) ALL TEMPORARY PAVEMENT SHALL CONSIST OF 3 INCHES OF ASPHALTIC SURFACE TEMPORARY, OVER 12 INCHES OF BASE AGGREGATE DENSE 1-1/4".

7) ALL TEMPORARY PAVEMENT MARKINGS ON PERMANENT PAVEMENT SHALL BE REMOVABLE TAPE.

8) EXISTING STOP AHEAD AND STOP SIGNS CAN BE RELOCATED AND USED FOR TRAFFIC CONTROL.

9) ALL TEMPORARY STOP SIGNS SHALL HAVE TWO FLAGS MOUNTED ABOVE THE SIGN.

10) "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.

11) BARRICADE STRIPES ARE TO BE SLOPED DOWNWARD IN THE DIRECTION OF TRAFFIC FLOW.

12) ALL TRAFFIC CONTROL DRUMS ARE SPACED AT 50-FEET, UNLESS OTHERWISE NOTED.

13) PERMANENT SIGNING AND PAVEMENT MARKING SHALL BE PLACED IN THE EARLIEST STAGE SO AS NOT TO CONFLICT WITH SUBSEQUENT STAGES.

14) FOR SIGNS MOUNTED ON PORTABLE OR TEMPORARY SIGN SUPPORTS, PROVIDE A MINIMUM OF 5 FEET FROM THE BOTTOM OF THE SIGN TO THE ADJACENT PAVEMENT.

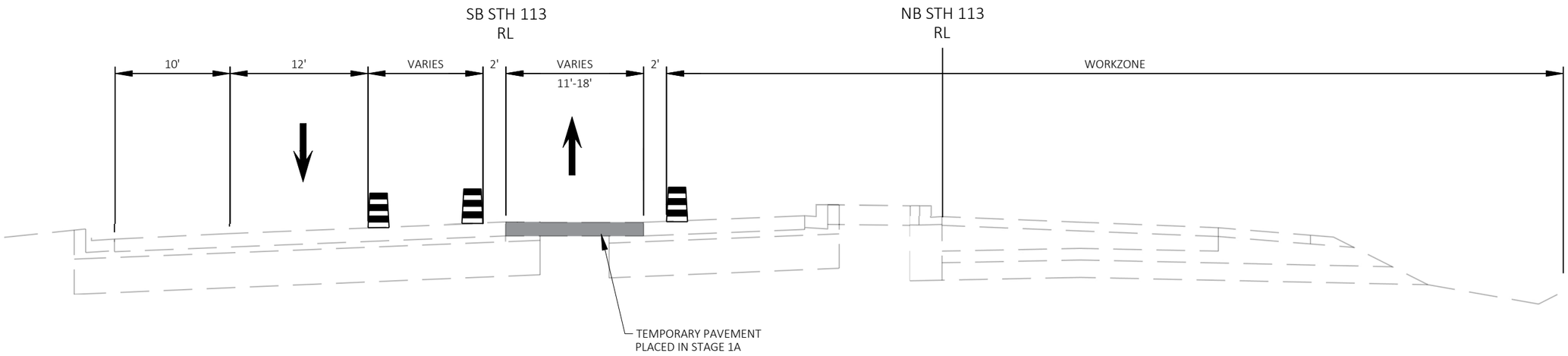
15) SEE SDD "TEMPORARY TRAFFIC CONTROL, SIGN MOUNTING" FOR SIGN MOUNTING.

16) ELIMINATE DROP-OFFS OF 2-INCHES OR MORE WITHIN 10-FEET OR LESS FROM THE EDGE OF THE STH 113 TRAVELED WAY BEFORE THE END OF OPERATIONS ON THAT DAY. COMPACTED MATERIAL PLACED TO A TEMPORARY 3:1 OR FLATTER SLOPE FROM THE SURFACE OF THE PAVEMENT EDGE IS ACCEPTABLE.

17) MAINTAIN ACCESS TO DRIVEWAYS AND DEAD END ROAD SIDE ROADS AT ALL TIMES.

WORK ZONE TRAFFIC CONTROL SYMBOLS

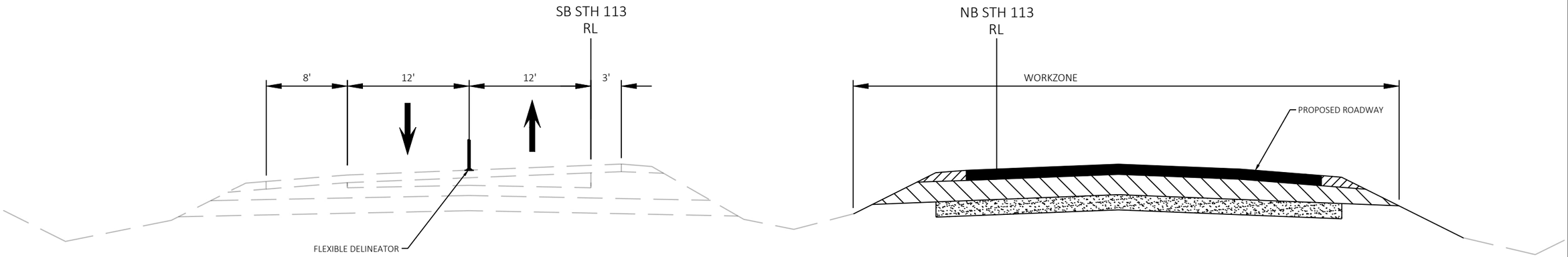
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- MB — PORTABLE CHANGEABLE MESSAGE SIGN BOARD
- TWO 18" X 18" FLAGS (ORANGE), INCIDENTAL TO TRAFFIC CONTROL SIGNS, REFLECTIVE
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF



CROSSOVER AT KNUTSON DRIVE INTERSECTION

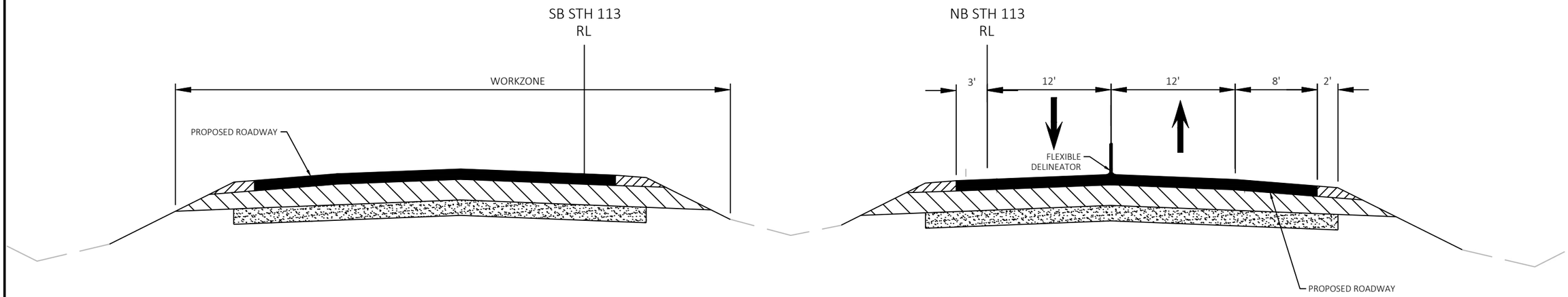
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	TRAFFIC CONTROL TYPICALS	SHEET 114	E

2



SHIFTED TRAFFIC STAGE 1B & 1C

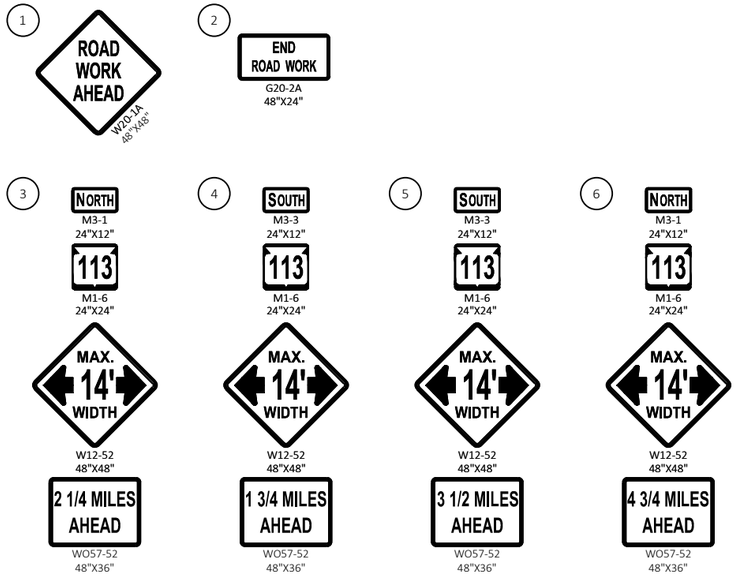
STA 10+00 'NB' - 83+00 'NB'



SHIFTED TRAFFIC STAGE 2

STA 11+90 'SB' - 83+00 'SB'

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	TRAFFIC CONTROL TYPICALS	SHEET 115	E



SDD LEGEND

15C02-A, DETAIL C: BARRICADES AND SIGNS FOR MAINLINE CLOSURES

15C02-B, DETAIL E: BARRICADES AND SIGNS FOR VARIOUS CLOSURES

15C02-F: ADVANCED WIDTH RESTRICTION SIGNING

15C03, DETAIL 4: BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

15D20-A: TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

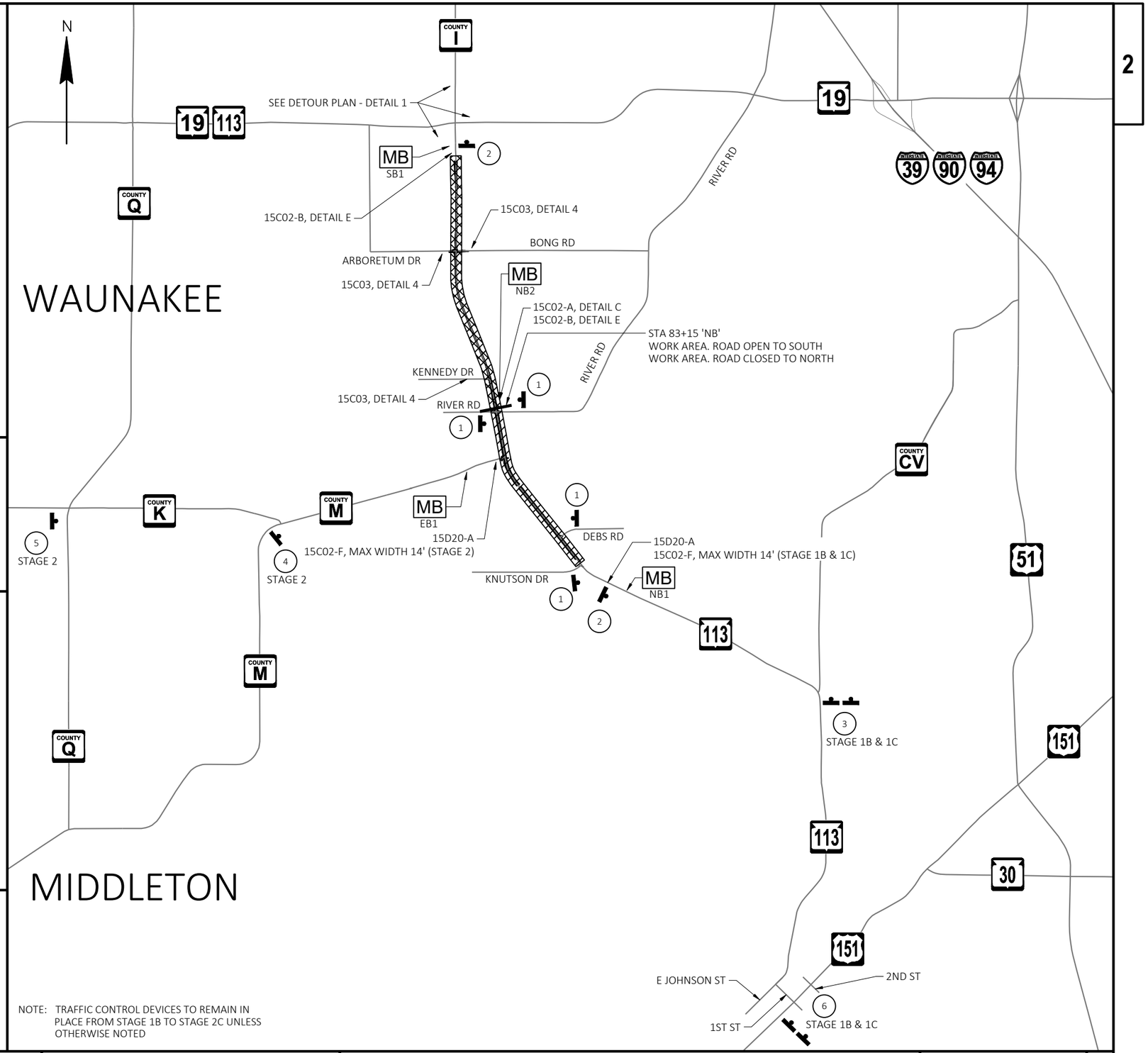
PCMS MESSAGES				
PCMS SITE LOCATION	7 DAYS PRIOR TO CONSTRUCTION/STAGE			
	STAGE 1		STAGE 2	
	FRAME A (2 SEC)	FRAME B (2 SEC)	FRAME A (2 SEC)	FRAME B (2 SEC)
NB1	ROAD WORK BEGINS	D.O.W. MM-DD	NEW TRAFFIC PATTERN	D.O.W. MM-DD
NB2	ROAD CLOSED BEGINS	D.O.W. MM-DD	--	--
SB1	ROAD CLOSED BEGINS	D.O.W. MM-DD	--	--
EB1	WIS 113 WORK BEGINS	D.O.W. MM-DD	NEW TRAFFIC PATTERN	D.O.W. MM-DD

PCMS NOTES:

1. PCMS LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
2. PCMS SHOULD BE PLACED AS FAR AWAY FROM THE LIVE TRAFFIC LANES AS POSSIBLE WITHOUT HAMPERING VISIBILITY.
3. REFLECTORIZED DRUMS SHOULD BE PLACED AHEAD OF PCMS ON THE SHOULDER.

LEGEND

- WORK AREA. ROAD OPEN
- WORK AREA. ROAD CLOSED
- SIGN ON EXISTING SUPPORT
- SIGN ON PERMANENT SUPPORT
- SIGNS ON PERMANENT SUPPORTS, PLACE ONE SIGN IN MEDIAN AND ONE SIGN ON RIGHT SIDE
- MB — PORTABLE CHANGEABLE MESSAGE BOARD



NOTE: TRAFFIC CONTROL DEVICES TO REMAIN IN PLACE FROM STAGE 1B TO STAGE 2C UNLESS OTHERWISE NOTED

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	ADVANCED SIGNING STAGE 1B TO STAGE 2C AND PCMS	SHEET 116	E

2

1 R9-9A
30"X18"



TYPE II BARRICADE

2 R9-9
24"X12"



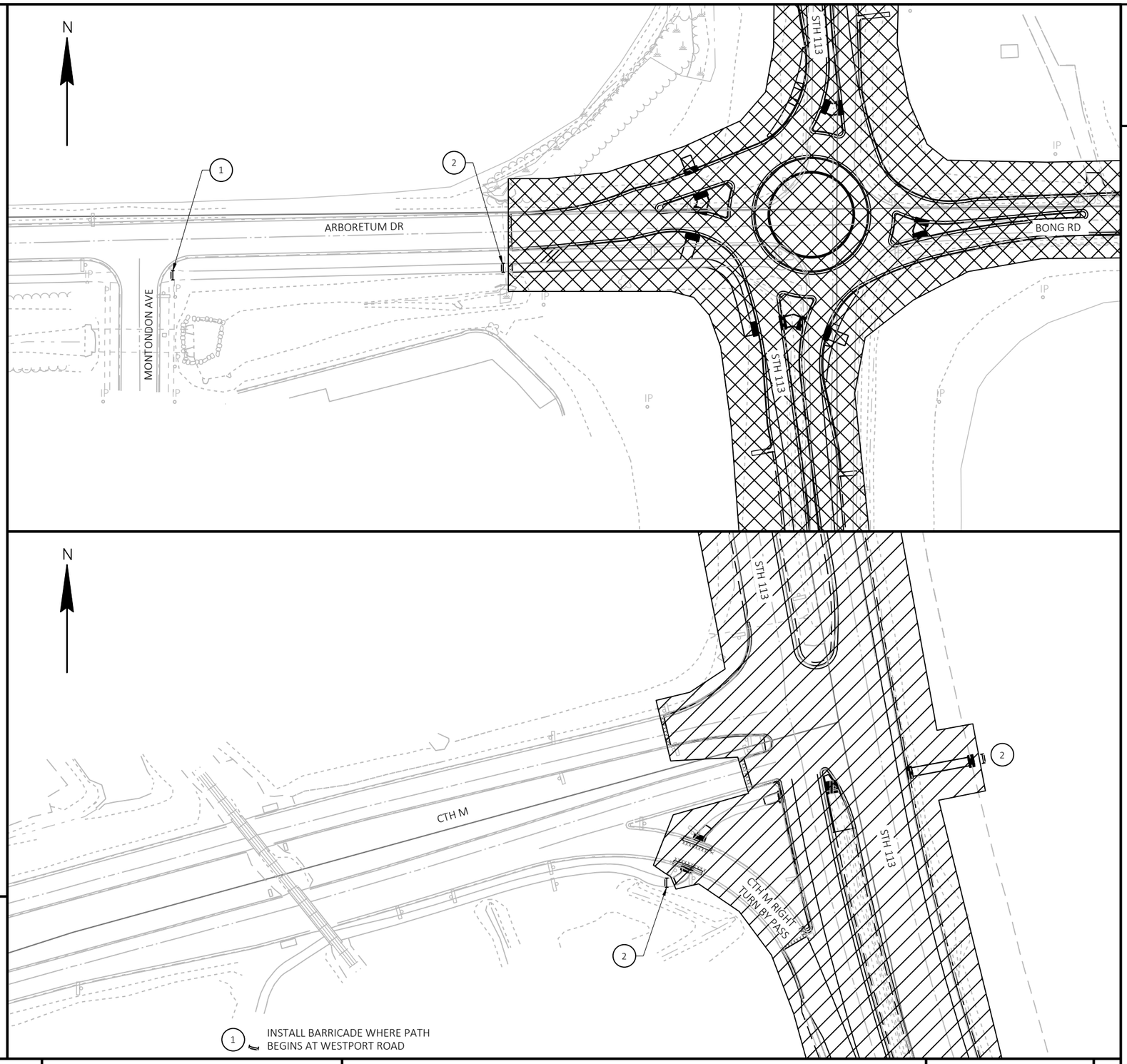
TYPE II BARRICADE

LEGEND

TYPE II BARRICADE WITH SIGN

WORK AREA. ROAD OPEN

WORK AREA. ROAD CLOSED



2

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	SIDEWALK CLOSURE	SHEET 117	E

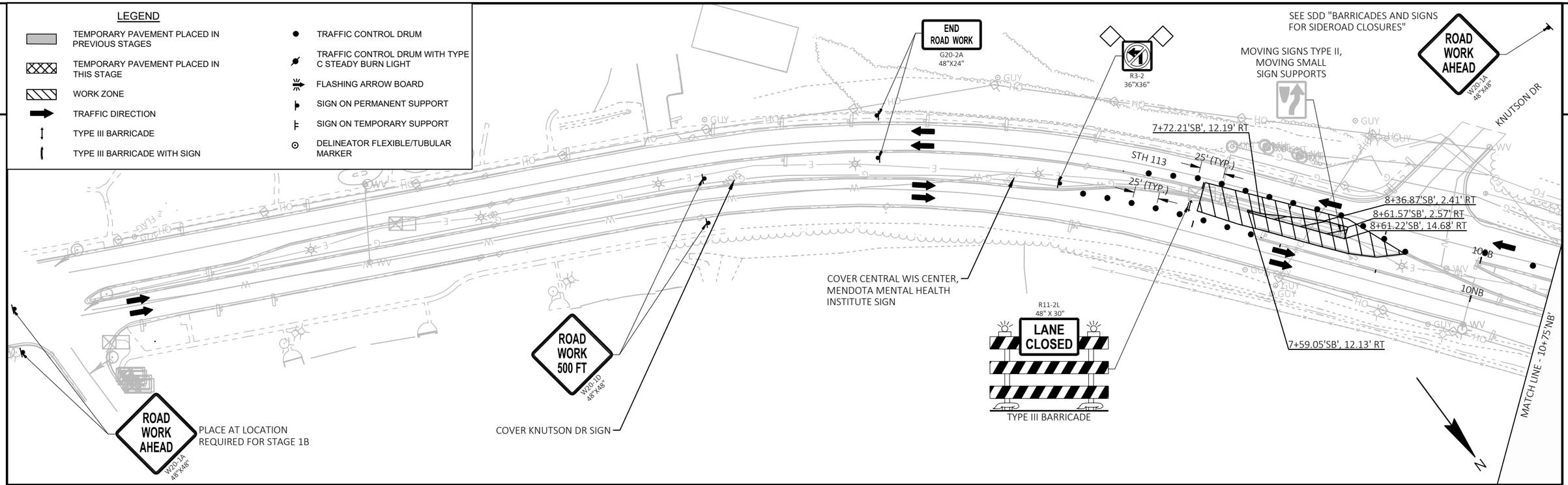
FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - 027002-dt

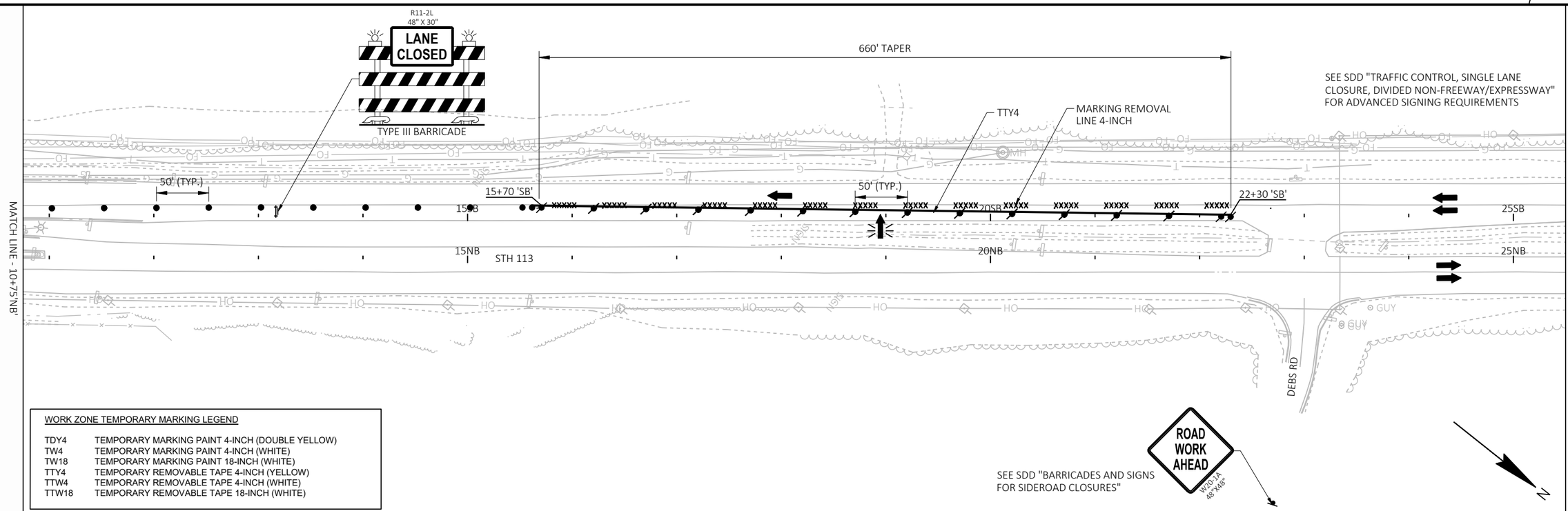
PLOT DATE : 10/4/2022 12:54 PM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- WORK ZONE
- TRAFFIC DIRECTION
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER





WORK ZONE TEMPORARY MARKING LEGEND

TDY4	TEMPORARY MARKING PAINT 4-INCH (DOUBLE YELLOW)
TW4	TEMPORARY MARKING PAINT 4-INCH (WHITE)
TW18	TEMPORARY MARKING PAINT 18-INCH (WHITE)
TTY4	TEMPORARY REMOVABLE TAPE 4-INCH (YELLOW)
TTW4	TEMPORARY REMOVABLE TAPE 4-INCH (WHITE)
TTW18	TEMPORARY REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	STAGE CONSTRUCTION - STAGE 1A	SHEET 118	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\026001-S1A.DWG
LAYOUT NAME - 026001 - s1A
PLOT DATE : 10/12/2022 8:23 AM PLOT BY : JASON DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- WORK ZONE
- TRAFFIC DIRECTION
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- EXISTING SIGN TO BE COVERED
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER

END ROAD WORK
G20-2A
48"X24"

25' (TYP.)

TTW4

MARKING REMOVAL LINE 4-INCH

340' TAPER

285'

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

WO1-4L
48"X48"

50' (TYP.)

TTY4

TTW4

WO1-6
48" X 24"
TYPE III BARRICADE

MARKING REMOVAL LINE 4-INCH
MARKING REMOVAL LINE WIDE (TYP.)
TTW4
MARKING REMOVAL SPECIAL MARKING (TYP.)

50' (TYP.)
STH 113
25' (TYP.)

MARKING REMOVAL LINE 4-INCH

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R3-2
24"X24"

SEE ADVANCED SIGNING STAGE 1B TO 2C AND PCMS SHEET FOR ADVANCED SIGNING AND PCMS DETAILS

KNUTSON DR

10' (TYP.)

TTY4
TTDY4

9+44 SB

10NB

MATCH LINE - 10+75'NB'

N

SEE ADVANCED SIGNING STAGE 1B TO 2C AND PCMS SHEET FOR ADVANCED SIGNING AND PCMS DETAILS

2

TDY4

REMOVE EXISTING 4-INCH YELLOW EDGE LINE MARKING AND INSTALL TW4

11+90 SB

TTDY4 TDY4
TTW4 TW4

50' (TYP.)

STH 113

20'

12

15SB
15NB
20SB
20NB
25SB
25NB

5'

R3-2
24"X24"

WO6-3
48"X48"

MATCH LINE - 10+75'NB'

MATCH LINE - 25+50'NB'

WO6-3
48"X48"

NORTH
113

MOVING SIGNS TYPE II, MOVING SMALL SIGN SUPPORTS

SPEED LIMIT
55

MOVING SIGNS TYPE II, MOVING SMALL SIGN SUPPORTS

DEBS RD

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

STOP
R1-1
30"X30"

ONE WAY
R6-2R
24"X30"

SEE ADVANCED SIGNING STAGE 1B TO 2C AND PCMS SHEET FOR ADVANCED SIGNING AND PCMS DETAILS

CONSTRUCT INTERSECTION IN HALVES. MAINTAIN ACCESS AT ALL TIMES.

N

WORK ZONE TEMPORARY MARKING LEGEND

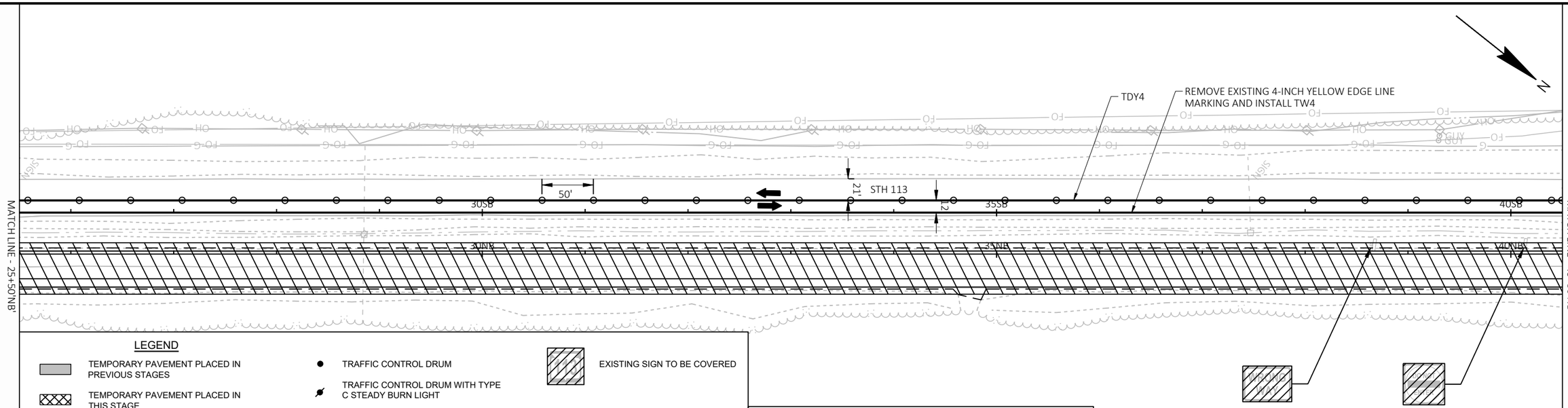
TDY4	TEMPORARY MARKING PAINT 4-INCH (DOUBLE YELLOW)
TW4	TEMPORARY MARKING PAINT 4-INCH (WHITE)
TW18	TEMPORARY MARKING PAINT 18-INCH (WHITE)
TTY4	TEMPORARY REMOVABLE TAPE 4-INCH (YELLOW)
TTDY4	TEMPORARY REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
TTW4	TEMPORARY REMOVABLE TAPE 4-INCH (WHITE)
TTW18	TEMPORARY REMOVABLE TAPE 18-INCH (WHITE)

NOTE:
PLACE PERMANENT WHITE EDGELINE PAVEMENT MARKINGS ON NORTHBOUND STH 113 OUTSIDE SHOULDER ONLY FOR USE IN STAGE 2.

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	STAGE CONSTRUCTION - STAGE 1B	SHEET 119	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\026001-S1B.DWG
LAYOUT NAME - 026001 - s1B
PLOT DATE : 10/31/2022 1:28 PM
PLOT BY : NATHAN COOK
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2



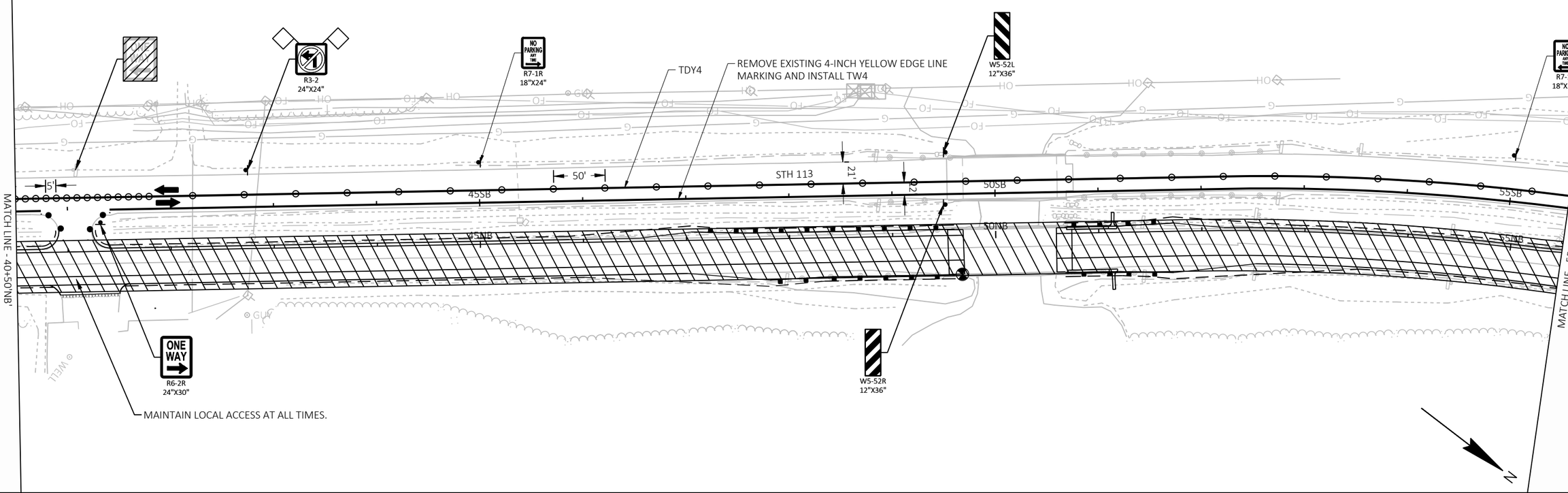
LEGEND

- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- WORK ZONE
- TRAFFIC DIRECTION
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- EXISTING SIGN TO BE COVERED

WORK ZONE TEMPORARY MARKING LEGEND

TDY4	TEMPORARY MARKING PAINT 4-INCH (DOUBLE YELLOW)
TW4	TEMPORARY MARKING PAINT 4-INCH (WHITE)
TW18	TEMPORARY MARKING PAINT 18-INCH (WHITE)
TTY4	TEMPORARY REMOVABLE TAPE 4-INCH (YELLOW)
TTDY4	TEMPORARY REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
TTW4	TEMPORARY REMOVABLE TAPE 4-INCH (WHITE)
TTW18	TEMPORARY REMOVABLE TAPE 18-INCH (WHITE)

NOTE:
PLACE PERMANENT WHITE EDGELINE PAVEMENT MARKINGS ON NORTHBOUND STH 113 OUTSIDE SHOULDER ONLY FOR USE IN STAGE 2.



PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	STAGE CONSTRUCTION - STAGE 1B	SHEET 120	E

LEGEND

- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- WORK ZONE
- TRAFFIC DIRECTION
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- EXISTING SIGN TO BE COVERED
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER

MATCHLINE CTH M

WO1-6 48" X 24"
TYPE III BARRICADE

R11-3 60"X30"
ROAD CLOSED TO THRU TRAFFIC 1/4 MILES AHEAD
TYPE III BARRICADE

R11-2 48" X 30"
ROAD CLOSED
TYPE III BARRICADE

REMOVE EXISTING 4-INCH YELLOW EDGE LINE MARKING AND INSTALL TW4

W03-3 48"X48"

W06-3 48"X48"

R1-2 36"X31"

TDY4

TW18

REMOVE EXISTING STOP BAR

MOVING SIGNS TYPE II, MOVING SMALL SIGN SUPPORTS

REMOVE EXISTING 4-INCH YELLOW EDGE LINE MARKING AND INSTALL TW4

STH 113

CTH M

15'

50'

24'

12'

60SB

60NB

65SB

65NB

70SB

70NB

MATCH LINE - 55+50'NB'

MATCH LINE - 70+25'NB'

N

W01-1 48"X48"

W06-3 48"X48"

R1-1 36"X36" ALL WAY R1-3P 24"X9"

R1-1 30"X30" ALL WAY R1-3P 18"X6"

R1-1 36"X36" ALL WAY R1-3P 24"X9"

R11-4 60" X 30"
ROAD CLOSED TO THRU TRAFFIC
TYPE III BARRICADE

REMOVE EXISTING 4-INCH YELLOW EDGE LINE MARKING AND INSTALL TW4

TDY4

50'

20'

12'

STH 113

75SB

75NB

80SB

80NB

85SB

85NB

TTW18

TW4

TTW4

25'

MADISON COUNTRY DAY SCHOOL

MOVING SIGNS TYPE II, MOVING SMALL SIGN SUPPORTS

River Road

MOVING SIGNS TYPE II, MOVING SMALL SIGN SUPPORTS (2)

DRUMLIN RIDGE WINERY 2.8

MOVING SIGNS TYPE II, MOVING SMALL SIGN SUPPORTS (2)

R11-2 48" X 30"
ROAD CLOSED
TYPE III BARRICADE

R11-2 48" X 30"
ROAD CLOSED
TYPE III BARRICADE

REMOVE EXISTING STOP BAR

TTDY4

TTW4

RIVER RD

RIVER RD

MATCH LINE - 70+25'NB'

WORK ZONE TEMPORARY MARKING LEGEND

TDY4	TEMPORARY MARKING PAINT 4-INCH (DOUBLE YELLOW)
TW4	TEMPORARY MARKING PAINT 4-INCH (WHITE)
TW18	TEMPORARY MARKING PAINT 18-INCH (WHITE)
TTY4	TEMPORARY REMOVABLE TAPE 4-INCH (YELLOW)
TTDY4	TEMPORARY REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
TTW4	TEMPORARY REMOVABLE TAPE 4-INCH (WHITE)
TTW18	TEMPORARY REMOVABLE TAPE 18-INCH (WHITE)

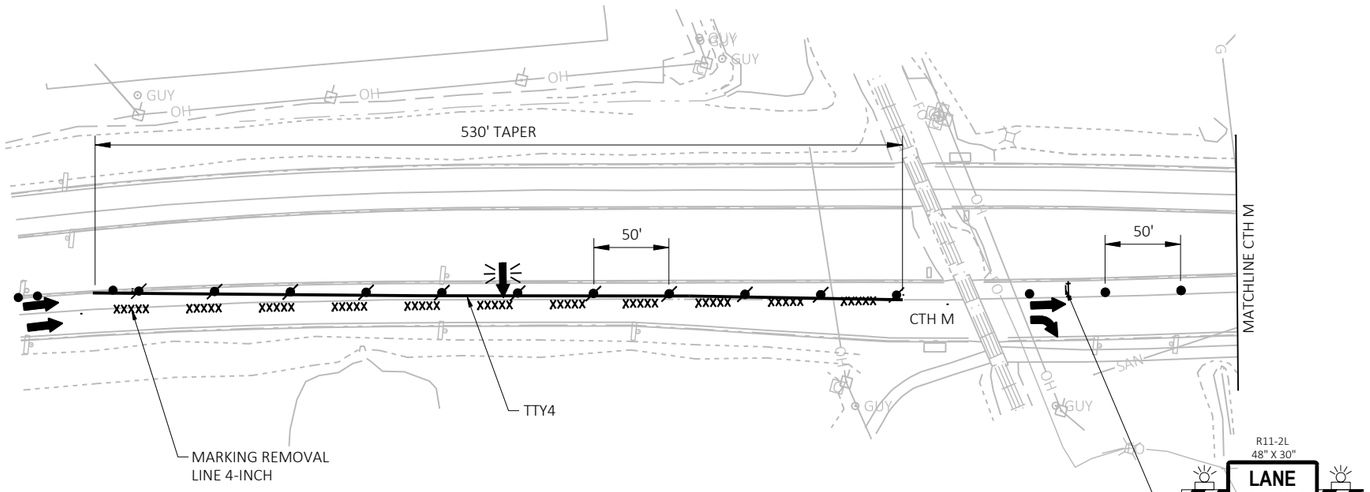
SEE ADVANCED SIGNING STAGE 1B TO 2C AND PCMS SHEET FOR ADVANCED SIGNING AND PCMS DETAILS

NOTE:
PLACE PERMANENT WHITE EDGELINE PAVEMENT MARKINGS ON NORTHBOUND STH 113 OUTSIDE SHOULDER ONLY FOR USE IN STAGE 2.

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	STAGE CONSTRUCTION - STAGE 1B	SHEET 121	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\026001-S1B.DWG
LAYOUT NAME - 026003 - s1B
PLOT DATE : 10/31/2022 1:28 PM
PLOT BY : NATHAN COOK
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2



SEE ADVANCED SIGNING STAGE 1B TO 2C AND PCMS SHEET FOR ADVANCED SIGNING AND PCMS DETAILS

- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- WORK ZONE
- TRAFFIC DIRECTION
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER

WORK ZONE TEMPORARY MARKING LEGEND

TDY4	TEMPORARY MARKING PAINT 4-INCH (DOUBLE YELLOW)
TW4	TEMPORARY MARKING PAINT 4-INCH (WHITE)
TW18	TEMPORARY MARKING PAINT 18-INCH (WHITE)
TTY4	TEMPORARY REMOVABLE TAPE 4-INCH (YELLOW)
TTDY4	TEMPORARY REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
TTW4	TEMPORARY REMOVABLE TAPE 4-INCH (WHITE)
TTW18	TEMPORARY REMOVABLE TAPE 18-INCH (WHITE)

LEGEND

- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- WORK ZONE
- TRAFFIC DIRECTION
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- EXISTING SIGN TO BE COVERED
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER

MATCHLINE CTH M

WO1-6 48" X 24"
TYPE III BARRICADE

R11-3 60"X30"
ROAD CLOSED TO THRU TRAFFIC 1/4 MILES AHEAD
TYPE III BARRICADE

R11-2 48" X 30"
ROAD CLOSED
TYPE III BARRICADE

NORTH 113
SIGN AND SUPPORT MOVED AS PART OF STAGE 1B TO REMAIN

R1-2 36"X31"

WO3-2 48"X48"

WO6-3 48"X48"

TW4 TDY4 TW18

63+18.82'SB', 3.21' RT

62+80.73'SB', 22.66' RT

62+80.73'SB', 25.66' RT

60SB 60NB 65SB 65NB 70SB 70NB

15' 50' CTH M

12' 50' 12' 24' 12'

MATCH LINE - 55+50'NB'

MATCH LINE - 70+25'NB'

N

WO1-1 48"X48"

WO6-3 48"X48"

R1-1 36"X36" ALL WAY R1-3P 24"X9"

R1-1 30"X30" ALL WAY R1-3P 18"X6"

R1-1 36"X36" ALL WAY R1-3P 24"X9"

R11-4 60" X 30"
ROAD CLOSED TO THRU TRAFFIC
TYPE III BARRICADE

RIVER RD

TDY4 TW4 TW18 TTW18 TTW4

75SB 80SB 85SB 80NB 85NB

20' 50' 12' 11' 12'

MATCH LINE - 70+25'NB'

MADISON COUNTRY DAY SCHOOL
SIGN AND SUPPORT MOVED AS PART OF STAGE 1B TO REMAIN

River Road
SIGN AND SUPPORTS MOVED AS PART OF STAGE 1B TO REMAIN

DRUMLIN RIDGE WINERY 2.8
SIGN AND SUPPORTS MOVED AS PART OF STAGE 1B TO REMAIN

WO1-6 48" X 24"
TYPE III BARRICADE

TTW4 TTDY4

R11-2 48" X 30"
ROAD CLOSED
TYPE III BARRICADE

WORK ZONE TEMPORARY MARKING LEGEND

TDY4	TEMPORARY MARKING PAINT 4-INCH (DOUBLE YELLOW)
TW4	TEMPORARY MARKING PAINT 4-INCH (WHITE)
TW18	TEMPORARY MARKING PAINT 18-INCH (WHITE)
TTY4	TEMPORARY REMOVABLE TAPE 4-INCH (YELLOW)
TTDY4	TEMPORARY REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
TTW4	TEMPORARY REMOVABLE TAPE 4-INCH (WHITE)
TTW18	TEMPORARY REMOVABLE TAPE 18-INCH (WHITE)

SEE ADVANCED SIGNING STAGE 1B TO 2C AND PCMS SHEET FOR ADVANCED SIGNING AND PCMS DETAILS

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	STAGE CONSTRUCTION - STAGE 1C	SHEET 123	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\026001-S1C.DWG
LAYOUT NAME - 026001-s1C
PLOT DATE : 10/13/2022 1:47 PM
PLOT BY : JASON DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

LEGEND

- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- WORK ZONE
- TRAFFIC DIRECTION
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- EXISTING SIGN TO BE COVERED
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER

R11-2L 48" X 30" LANE CLOSED — TYPE III BARRICADE

END ROAD WORK G20-2A 48"X24"

WO1-6 48" X 24" — TYPE III BARRICADE

R3-2 24"X24"

KNUTSON DR

N

TTW4

TTY4

25'

50'

STH 113

340' TAPER

285'

R3-2 24"X24"

R11-2L 48" X 30" LANE CLOSED — TYPE III BARRICADE

R11-2 48" X 30" ROAD CLOSED — TYPE III BARRICADE

10NB

10SB

MATCH LINE - 10+75'NB'

SEE ADVANCED SIGNING STAGE 1B TO 2C AND PCMS SHEET FOR ADVANCED SIGNING AND PCMS DETAILS

WO1-6 48" X 24" — TYPE III BARRICADE

Knutson Dr

MOVING SIGNS TYPE II, MOVING SMALL SIGN SUPPORTS (2) (MOVE SIGN AND SUPPORTS BACK TO ORIGINAL LOCATION FOR STAGE 3)

SPEED LIMIT 40

WRONG WAY

R3-2 24"X24"

15SB

20SB

25SB

15NB

20NB

25NB

50'

STH 113

NORTH 113

MOVING SIGNS TYPE II, MOVING SMALL SIGN SUPPORTS

TTY4

TTW4

SPEED LIMIT 55

MOVING SIGNS TYPE II, MOVING SMALL SIGN SUPPORTS

W06-3 48"X48"

TTDY4

WO1-4R 48"X48"

40 MPH WO13-1 36"X36"

WRONG WAY

R11-2 48" X 30" ROAD CLOSED — TYPE III BARRICADE

DEBS RD

ONE WAY R6-2R 24"X30"

W06-3 48"X48"

MATCH LINE - 25+50'NB'

WORK ZONE TEMPORARY MARKING LEGEND

TDY4	TEMPORARY MARKING PAINT 4-INCH (DOUBLE YELLOW)
TW4	TEMPORARY MARKING PAINT 4-INCH (WHITE)
TW18	TEMPORARY MARKING PAINT 18-INCH (WHITE)
TTY4	TEMPORARY REMOVABLE TAPE 4-INCH (YELLOW)
TTDY4	TEMPORARY REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
TTW4	TEMPORARY REMOVABLE TAPE 4-INCH (WHITE)
TTW18	TEMPORARY REMOVABLE TAPE 18-INCH (WHITE)

SEE ADVANCED SIGNING STAGE 1B TO 2C AND PCMS SHEET FOR ADVANCED SIGNING AND PCMS DETAILS

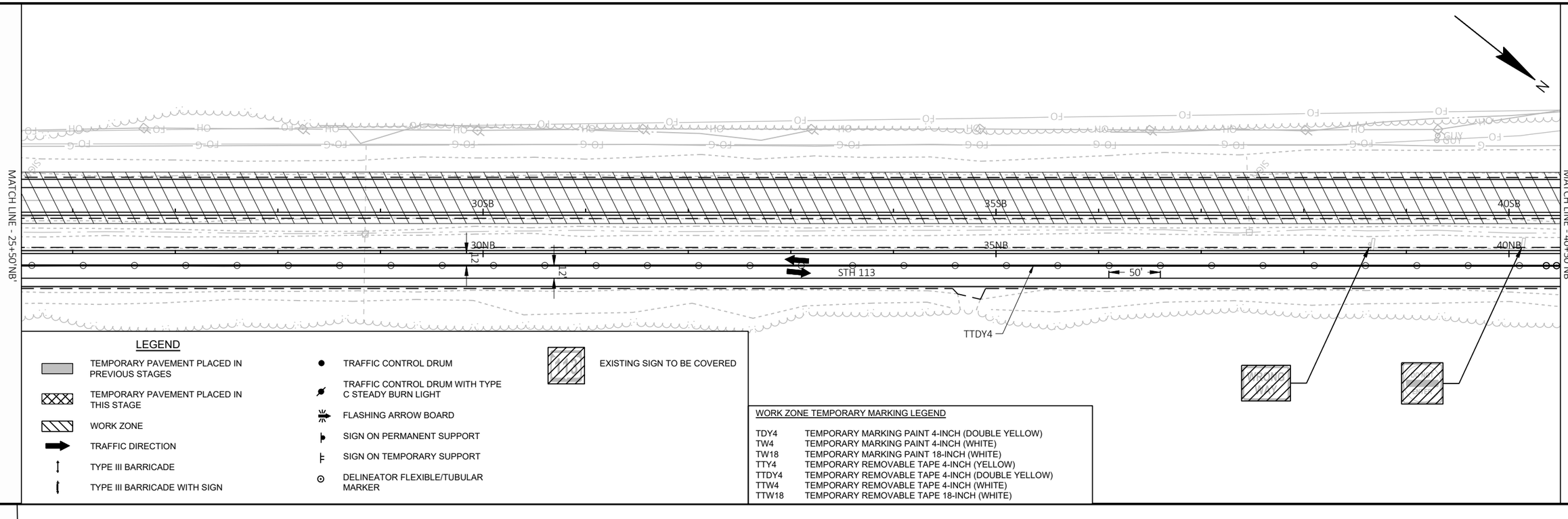
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	STAGE CONSTRUCTION - STAGE 2A	SHEET 124	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\026001-S2A.DWG
LAYOUT NAME - 026001-s2A

PLOT DATE : 11/1/2022 8:51 AM PLOT BY : NATHAN COOK PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

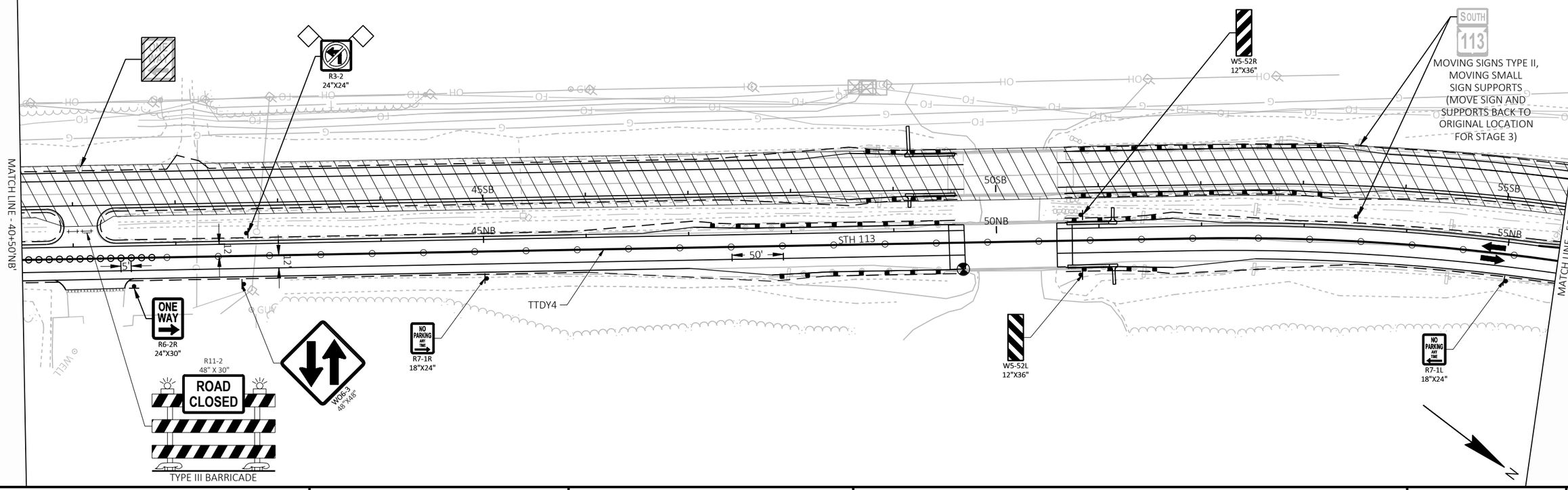


LEGEND

- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- WORK ZONE
- TRAFFIC DIRECTION
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- EXISTING SIGN TO BE COVERED

WORK ZONE TEMPORARY MARKING LEGEND

TDY4	TEMPORARY MARKING PAINT 4-INCH (DOUBLE YELLOW)
TW4	TEMPORARY MARKING PAINT 4-INCH (WHITE)
TW18	TEMPORARY MARKING PAINT 18-INCH (WHITE)
TTY4	TEMPORARY REMOVABLE TAPE 4-INCH (YELLOW)
TTDY4	TEMPORARY REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
TTW4	TEMPORARY REMOVABLE TAPE 4-INCH (WHITE)
TTW18	TEMPORARY REMOVABLE TAPE 18-INCH (WHITE)



PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	STAGE CONSTRUCTION - STAGE 2A	SHEET 125	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\026001-S2A.DWG
LAYOUT NAME - 026002-s2A
PLOT DATE : 10/31/2022 1:43 PM PLOT BY : NATHAN COOK PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

LEGEND

- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- WORK ZONE
- TRAFFIC DIRECTION
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER

MATCHLINE CTH M

R11-2L 48" X 30" LANE CLOSED — TYPE III BARRICADE

TEMPORARY MARKING ARROW REMOVABLE TAPE

TTW8

61+08.23'NB', -46.00' LT
60+72.16'NB', -23.80' LT
60+60.96'NB', -45.92' LT
60+06.10'NB', -24.00' LT

60SB — 50' — 60NB — 50' — STH 113

TTDY4

W06-3 48"X48"

MATCH LINE - 55+50'NB'

CTH M

25'

TTW18

65SB — 65NB

R11-2 48" X 30" ROAD CLOSED — TYPE III BARRICADE

COUNTY M — MOVING SIGNS TYPE II, MOVING SMALL SIGN SUPPORTS

NORTH 113 — MOVING SIGNS TYPE II, MOVING SMALL SIGN SUPPORTS

W06-3 48"X48"

70SB — 70NB

TTDY4

MATCH LINE - 70+25'NB'

N

Gov Nelson State Park
Mendota County Park
MOVING SIGNS TYPE II, MOVING SMALL SIGN SUPPORTS (2)

Middleton
MOVING SIGNS TYPE II, MOVING SMALL SIGN SUPPORTS (2)

R11-3 60"X30" ROAD CLOSED TO THRU TRAFFIC 1/4 MILES AHEAD — TYPE III BARRICADE

R11-2 48" X 30" ROAD CLOSED — TYPE III BARRICADE

STOP R1-1 30"X30" ALL WAY R1-3P 18"X6"

TTW4
TTDY4

RIVER RD

R11-2 48" X 30" ROAD CLOSED — TYPE III BARRICADE

MATCH LINE - 70+25'NB'

75SB — 75NB

STH 113

25' — 50'

TTDY4

80SB — 80NB

16'
24'

TTW18

85SB — 85NB

MADISON COUNTRY DAY SCHOOL
MOVING SIGNS TYPE II, MOVING SMALL SIGN SUPPORTS

W06-1 48"X48"

River Road
MOVING SIGNS TYPE II, MOVING SMALL SIGN SUPPORTS (2)

DRUMLIN RIDGE WINERY 2.8
MOVING SIGNS TYPE II, MOVING SMALL SIGN SUPPORTS (2)

JCT COUNTY M
MOVING SIGNS TYPE II, MOVING SMALL SIGN SUPPORTS

W06-3 48"X48"

STOP R1-1 36"X36" ALL WAY R1-3P 24"X9"

TTW18
TTW18

R11-4 60" X 30" ROAD CLOSED TO THRU TRAFFIC — TYPE III BARRICADE

STOP R1-1 30"X30" ALL WAY R1-3P 18"X6"

RIVER RD

N

WORK ZONE TEMPORARY MARKING LEGEND

TDY4	TEMPORARY MARKING PAINT 4-INCH (DOUBLE YELLOW)
TW4	TEMPORARY MARKING PAINT 4-INCH (WHITE)
TW18	TEMPORARY MARKING PAINT 18-INCH (WHITE)
TTY4	TEMPORARY REMOVABLE TAPE PAINT 4-INCH (YELLOW)
TTDY4	TEMPORARY REMOVABLE TAPE PAINT 4-INCH (DOUBLE YELLOW)
TTW4	TEMPORARY REMOVABLE TAPE PAINT 4-INCH (WHITE)
TTW8	TEMPORARY REMOVABLE TAPE PAINT 8-INCH (WHITE)
TTW18	TEMPORARY REMOVABLE TAPE PAINT 18-INCH (WHITE)

SEE ADVANCED SIGNING STAGE 1B TO 2C AND PCMS SHEET FOR ADVANCED SIGNING AND PCMS DETAILS

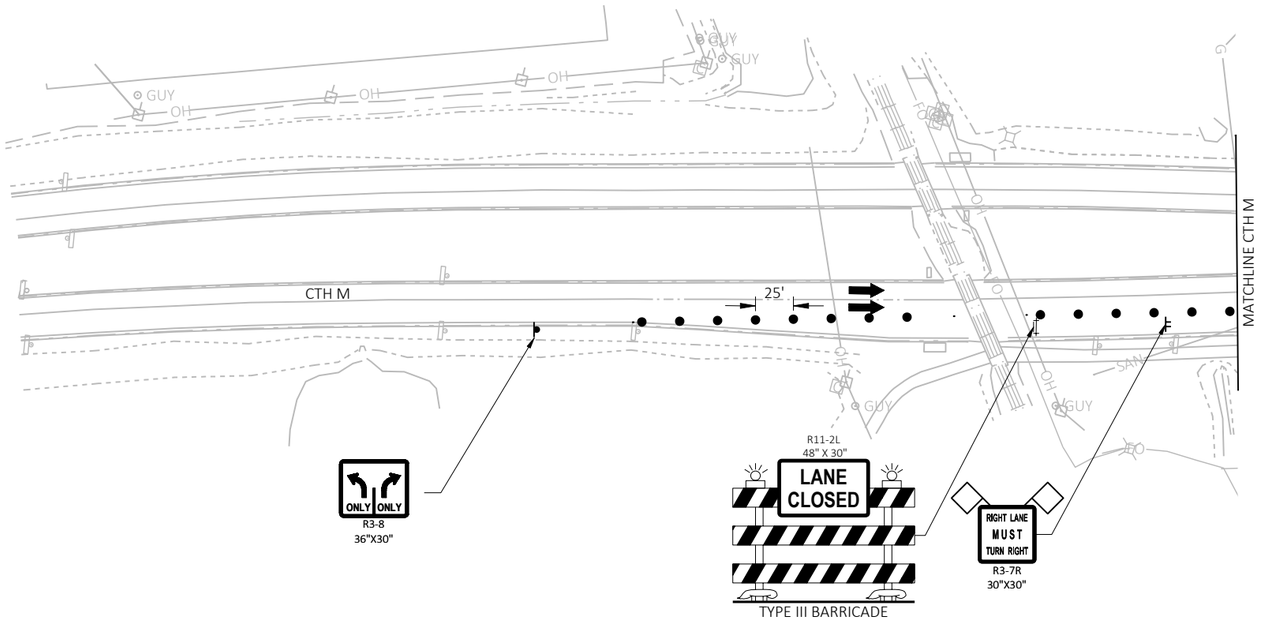
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	STAGE CONSTRUCTION - STAGE 2A	SHEET 126	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\026001-S2A.DWG
LAYOUT NAME - 026003-s2A

PLOT DATE : 10/31/2022 1:43 PM PLOT BY : NATHAN COOK PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2



SEE ADVANCED SIGNING STAGE 1B TO 2C AND PCMS SHEET FOR ADVANCED SIGNING AND PCMS DETAILS

- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- WORK ZONE
- TRAFFIC DIRECTION
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER

WORK ZONE TEMPORARY MARKING LEGEND

TDY4	TEMPORARY MARKING PAINT 4-INCH (DOUBLE YELLOW)
TW4	TEMPORARY MARKING PAINT 4-INCH (WHITE)
TW18	TEMPORARY MARKING PAINT 18-INCH (WHITE)
TTY4	TEMPORARY REMOVABLE TAPE 4-INCH (YELLOW)
TTW4	TEMPORARY REMOVABLE TAPE 4-INCH (WHITE)
TTW18	TEMPORARY REMOVABLE TAPE 18-INCH (WHITE)

2

LEGEND

- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- WORK ZONE
- TRAFFIC DIRECTION
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER

MATCHLINE CTH M

R11-2L 48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2 48" X 30"
ROAD CLOSED
TYPE III BARRICADE

N

WO6-3 48"X48"

WO4-2R 48"X48"

R1-2 36"X31"

TTW4
TTW4
TTY4
TTW4
TTW4
TTW18
TTDY4
TTDY4

CTH M

50'
25'
22'
12'
12'
12'
25'
50'

60SB
60NB
STH 113

SIGN AND SUPPORT MOVED AS PART OF STAGE 2A TO REMAIN

COUNTY M

NORTH 113

SIGN AND SUPPORT MOVED AS PART OF STAGE 2A TO REMAIN

65SB
65NB
70SB
70NB

MATCH LINE - 55+50 NB'

MATCH LINE - 70+25 NB'

Gov Nelson State Park
Mendota County Park
SIGN AND SUPPORTS MOVED AS PART OF STAGE 2A TO REMAIN

Middleton
SIGN AND SUPPORTS MOVED AS PART OF STAGE 2A TO REMAIN

R11-3 60"X30"
ROAD CLOSED TO THRU TRAFFIC 1/4 MILES AHEAD
TYPE III BARRICADE

STOP R1-1 30"X30" ALL WAY R1-3P 18"X6"

TTW4
TTDY4

RIVER RD

R11-2 48" X 30"
ROAD CLOSED
TYPE III BARRICADE

75SB
75NB
80SB
80NB
85SB
85NB
STH 113

TTW18
TTW18
TTW18

MADISON COUNTRY DAY SCHOOL
SIGN AND SUPPORT MOVED AS PART OF STAGE 2A TO REMAIN

WO3-1 48"X48"

River Road
SIGN AND SUPPORTS MOVED AS PART OF STAGE 2A TO REMAIN

TTDY4

DRUMLIN RIDGE WINERY 2.8
SIGN AND SUPPORTS MOVED AS PART OF STAGE 2A TO REMAIN

JCT COUNTY M
SIGN AND SUPPORT MOVED AS PART OF STAGE 2A TO REMAIN

WO6-3 48"X48"

STOP R1-1 36"X36" ALL WAY R1-3P 24"X9"

STOP R1-1 30"X30" ALL WAY R1-3P 18"X6"

R11-4 60" X 30"
ROAD CLOSED TO THRU TRAFFIC
TYPE III BARRICADE

N

WORK ZONE TEMPORARY MARKING LEGEND

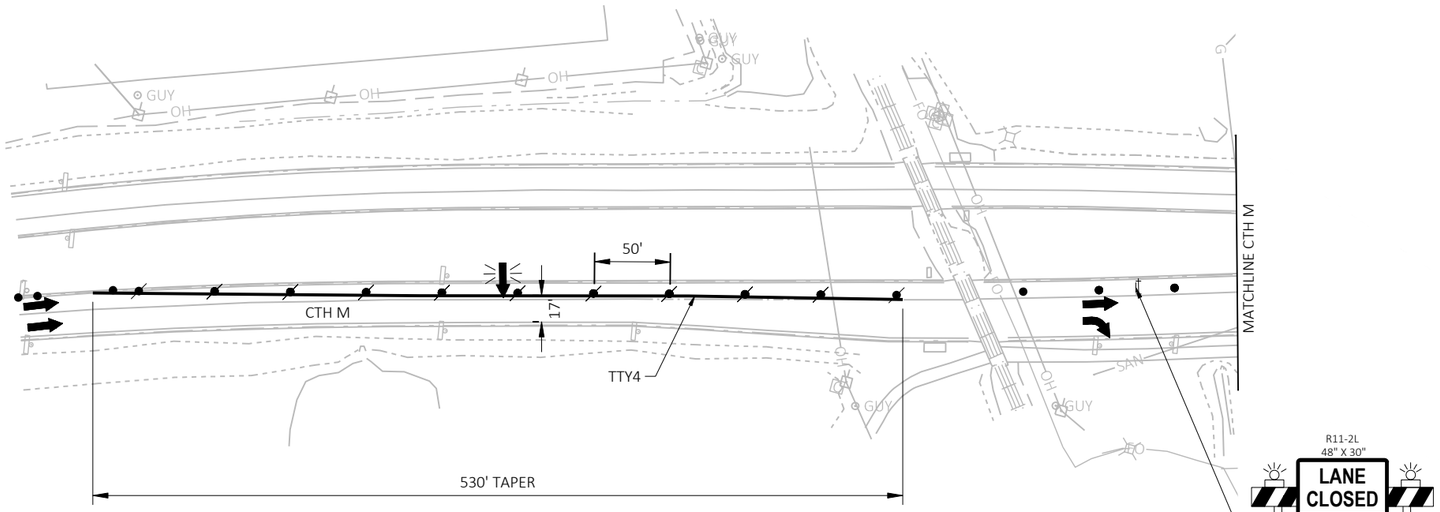
TDY4	TEMPORARY MARKING PAINT 4-INCH (DOUBLE YELLOW)
TW4	TEMPORARY MARKING PAINT 4-INCH (WHITE)
TW18	TEMPORARY MARKING PAINT 18-INCH (WHITE)
TTY4	TEMPORARY REMOVABLE TAPE 4-INCH (YELLOW)
TTDY4	TEMPORARY REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
TTW4	TEMPORARY REMOVABLE TAPE 4-INCH (WHITE)
TTW18	TEMPORARY REMOVABLE TAPE 18-INCH (WHITE)

SEE ADVANCED SIGNING STAGE 1B TO 2C AND PCMS SHEET FOR ADVANCED SIGNING AND PCMS DETAILS

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	STAGE CONSTRUCTION - STAGE 2B	SHEET 128	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\026001-S2B.DWG
LAYOUT NAME - 026001-s2B

PLOT DATE : 10/31/2022 1:47 PM PLOT BY : NATHAN COOK PLOT NAME : PLOT SCALE : 1 IN:100 FT



2

N

SEE ADVANCED SIGNING STAGE 1B TO 2C AND PCMS SHEET FOR ADVANCED SIGNING AND PCMS DETAILS

LEGEND

- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- WORK ZONE
- TRAFFIC DIRECTION
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER

WORK ZONE TEMPORARY MARKING LEGEND

TDY4	TEMPORARY MARKING PAINT 4-INCH (DOUBLE YELLOW)
TW4	TEMPORARY MARKING PAINT 4-INCH (WHITE)
TW18	TEMPORARY MARKING PAINT 18-INCH (WHITE)
TTY4	TEMPORARY REMOVABLE TAPE 4-INCH (YELLOW)
TTDY4	TEMPORARY REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
TTW4	TEMPORARY REMOVABLE TAPE 4-INCH (WHITE)
TTW18	TEMPORARY REMOVABLE TAPE 18-INCH (WHITE)

2

LEGEND

- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- WORK ZONE
- TRAFFIC DIRECTION
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER

MATCHLINE CTH M

R11-2L 48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2 48" X 30"
ROAD CLOSED
TYPE III BARRICADE

CTH M

50'

TTW4
TTY4
TTW18
TTDY4

WO6-3 48"X48"

R1-2 36"X31"
YIELD

WO4-2R 48"X48"

22'

60SB
60NB
STH 113
25'

MATCH LINE - 55+50'NB'

50'

WO4-1R 48"X48"

COUNTY M
SIGN AND SUPPORT MOVED AS PART OF STAGE 2A TO REMAIN

NORTH 113
SIGN AND SUPPORT MOVED AS PART OF STAGE 2A TO REMAIN

65SB
65NB
70SB
70NB

MATCH LINE - 70+25'NB'

Gov Nelson State Park
Mendota County Park
SIGN AND SUPPORTS MOVED AS PART OF STAGE 2A TO REMAIN

Middleton
SIGN AND SUPPORTS MOVED AS PART OF STAGE 2A TO REMAIN

R11-3 60"X30"
ROAD CLOSED TO THRU TRAFFIC 1/4 MILES AHEAD
TYPE III BARRICADE

STOP
R1-1 30"X30"
ALL WAY
R1-3P 18"X6"

RIVER RD

R11-2 48" X 30"
ROAD CLOSED
TYPE III BARRICADE

75SB
75NB
STH 113
25'
50'
80SB
80NB
85SB
85NB

MATCH LINE - 70+25'NB'

MADISON COUNTRY DAY SCHOOL
SIGN AND SUPPORT MOVED AS PART OF STAGE 2A TO REMAIN

WO3-1 48"X48"

River Road
SIGN AND SUPPORTS MOVED AS PART OF STAGE 2A TO REMAIN

DRUMLIN RIDGE WINERY 2.8
SIGN AND SUPPORTS MOVED AS PART OF STAGE 2A TO REMAIN

JCT COUNTY M
SIGN AND SUPPORT MOVED AS PART OF STAGE 2A TO REMAIN

WO6-3 48"X48"

STOP
R1-1 36"X36"
ALL WAY
R1-3P 24"X9"

STOP
R1-1 30"X30"
ALL WAY
R1-3P 18"X6"

R11-4 60" X 30"
ROAD CLOSED TO THRU TRAFFIC
TYPE III BARRICADE

WORK ZONE TEMPORARY MARKING LEGEND

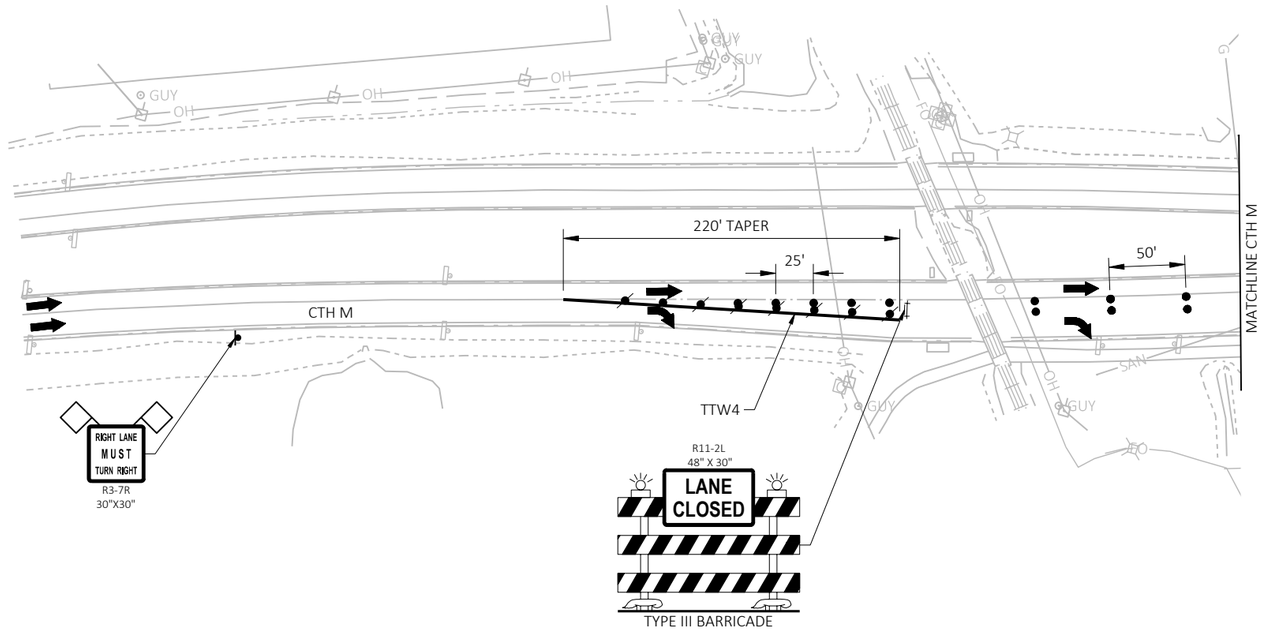
TDY4	TEMPORARY MARKING PAINT 4-INCH (DOUBLE YELLOW)
TW4	TEMPORARY MARKING PAINT 4-INCH (WHITE)
TW18	TEMPORARY MARKING PAINT 18-INCH (WHITE)
TTY4	TEMPORARY REMOVABLE TAPE 4-INCH (YELLOW)
TTDY4	TEMPORARY REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
TTW4	TEMPORARY REMOVABLE TAPE 4-INCH (WHITE)
TTW18	TEMPORARY REMOVABLE TAPE 18-INCH (WHITE)

SEE ADVANCED SIGNING STAGE 1B TO 2C AND PCMS SHEET FOR ADVANCED SIGNING AND PCMS DETAILS

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	STAGE CONSTRUCTION - STAGE 2C	SHEET 130	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\026001-S2C.DWG
LAYOUT NAME - 026001-s2C
PLOT DATE : 10/6/2022 6:18 AM
PLOT BY : JASON DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2



SEE ADVANCED SIGNING STAGE 1B TO 2C AND PCMS
SHEET FOR ADVANCED SIGNING AND PCMS DETAILS

LEGEND

- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- WORK ZONE
- TRAFFIC DIRECTION
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER

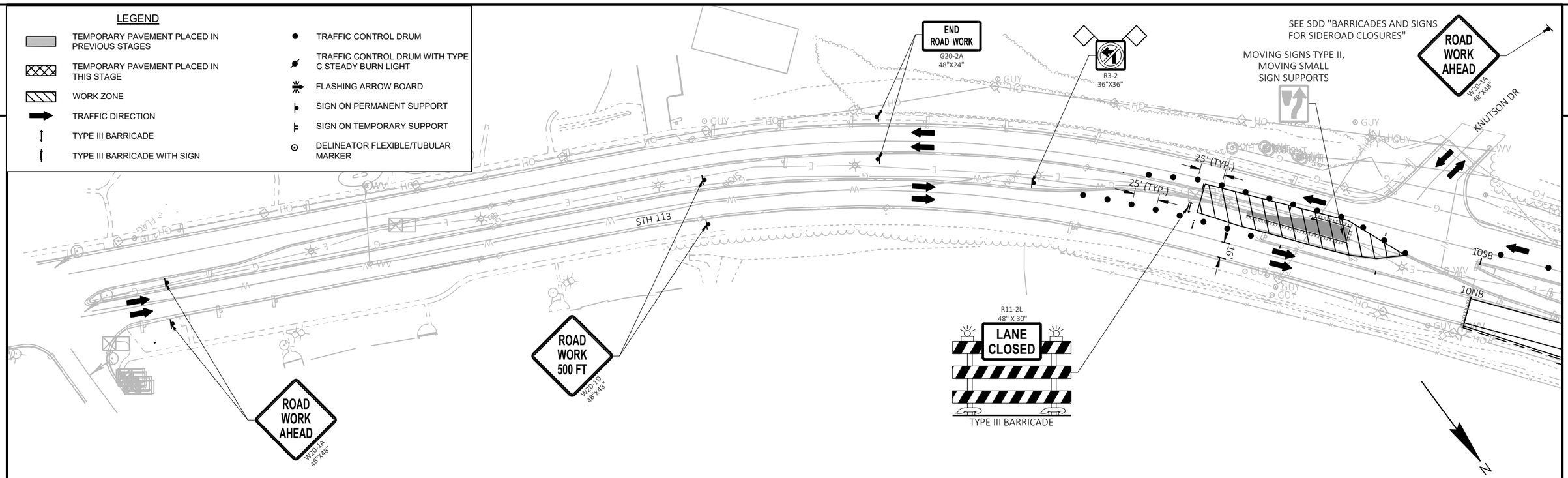
WORK ZONE TEMPORARY MARKING LEGEND

TDY4	TEMPORARY MARKING PAINT 4-INCH (DOUBLE YELLOW)
TW4	TEMPORARY MARKING PAINT 4-INCH (WHITE)
TW18	TEMPORARY MARKING PAINT 18-INCH (WHITE)
TTY4	TEMPORARY REMOVABLE TAPE 4-INCH (YELLOW)
TTDY4	TEMPORARY REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
TTW4	TEMPORARY REMOVABLE TAPE 4-INCH (WHITE)
TTW18	TEMPORARY REMOVABLE TAPE 18-INCH (WHITE)

2

LEGEND

- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- WORK ZONE
- TRAFFIC DIRECTION
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER



2

WORK ZONE TEMPORARY MARKING LEGEND

TDY4	TEMPORARY MARKING PAINT 4-INCH (DOUBLE YELLOW)
TW4	TEMPORARY MARKING PAINT 4-INCH (WHITE)
TW18	TEMPORARY MARKING PAINT 18-INCH (WHITE)
TTY4	TEMPORARY REMOVABLE TAPE 4-INCH (YELLOW)
TTDY4	TEMPORARY REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
TTW4	TEMPORARY REMOVABLE TAPE 4-INCH (WHITE)
TTW18	TEMPORARY REMOVABLE TAPE 18-INCH (WHITE)

LEGEND

- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGES
- TEMPORARY PAVEMENT PLACED IN THIS STAGE
- WORK ZONE
- TRAFFIC DIRECTION
- TYPE III BARRICADE
- TYPE III BARRICADE WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER

SEE SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES"

ROAD WORK AHEAD
W20-1A
48"X48"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

R11-2
36"X31"
YIELD

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

CTH M

COUNTY M
MOVING SIGNS TYPE II, MOVING SMALL SIGN SUPPORTS

NORTH 113
SIGN AND SUPPORT MOVED AS PART OF STAGE 2A TO REMAIN

END ROAD WORK
G20-2A
48"X24"

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

60SB
60NB
50'
STH 113
55NB
65SB
65NB
70SB
70NB

MATCH LINE - 70+25'NB'

660' TAPER

Gov Nelson State Park
Mendota County Park
MOVING SIGNS TYPE II, MOVING SMALL SIGN SUPPORTS (2)

Middleton
MOVING SIGNS TYPE II, MOVING SMALL SIGN SUPPORTS (2)

TTY4

SEE SDD "TRAFFIC CONTROL, LANE CLOSURE" FOR ADVANCED SIGNING REQUIREMENTS

75SB
50'
75NB
STH 113
80SB
80NB
85SB
85NB

RIVER RD

MADISON COUNTRY DAY SCHOOL
SIGN AND SUPPORT MOVED AS PART OF STAGE 2A TO REMAIN

River Road
SIGN AND SUPPORTS MOVED AS PART OF STAGE 2A TO REMAIN

DRUMLIN RIDGE WINERY 2.8
SIGN AND SUPPORTS MOVED AS PART OF STAGE 2A TO REMAIN

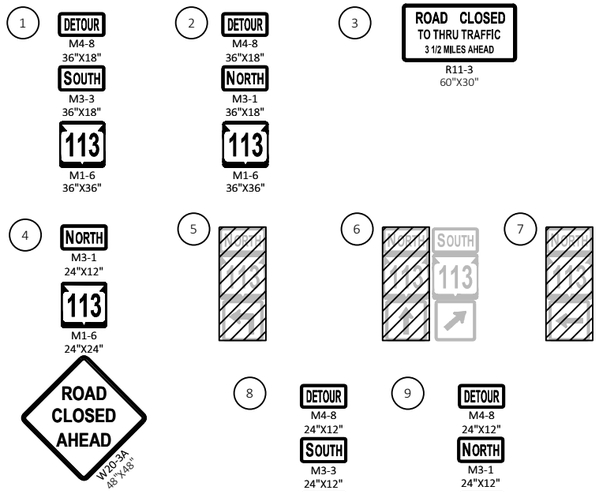
JCT COUNTY M
MOVING SIGNS TYPE II, MOVING SMALL SIGN SUPPORTS

WORK ZONE TEMPORARY MARKING LEGEND

TDY4	TEMPORARY MARKING PAINT 4-INCH (DOUBLE YELLOW)
TW4	TEMPORARY MARKING PAINT 4-INCH (WHITE)
TW18	TEMPORARY MARKING PAINT 18-INCH (WHITE)
TTY4	TEMPORARY REMOVABLE TAPE 4-INCH (YELLOW)
TTDY4	TEMPORARY REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
TTW4	TEMPORARY REMOVABLE TAPE 4-INCH (WHITE)
TTW18	TEMPORARY REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	STAGE CONSTRUCTION - STAGE 3	SHEET 133	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\026001-S3.DWG
LAYOUT NAME - 026002-s3
PLOT DATE : 10/12/2022 8:28 AM
PLOT BY : JASON DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

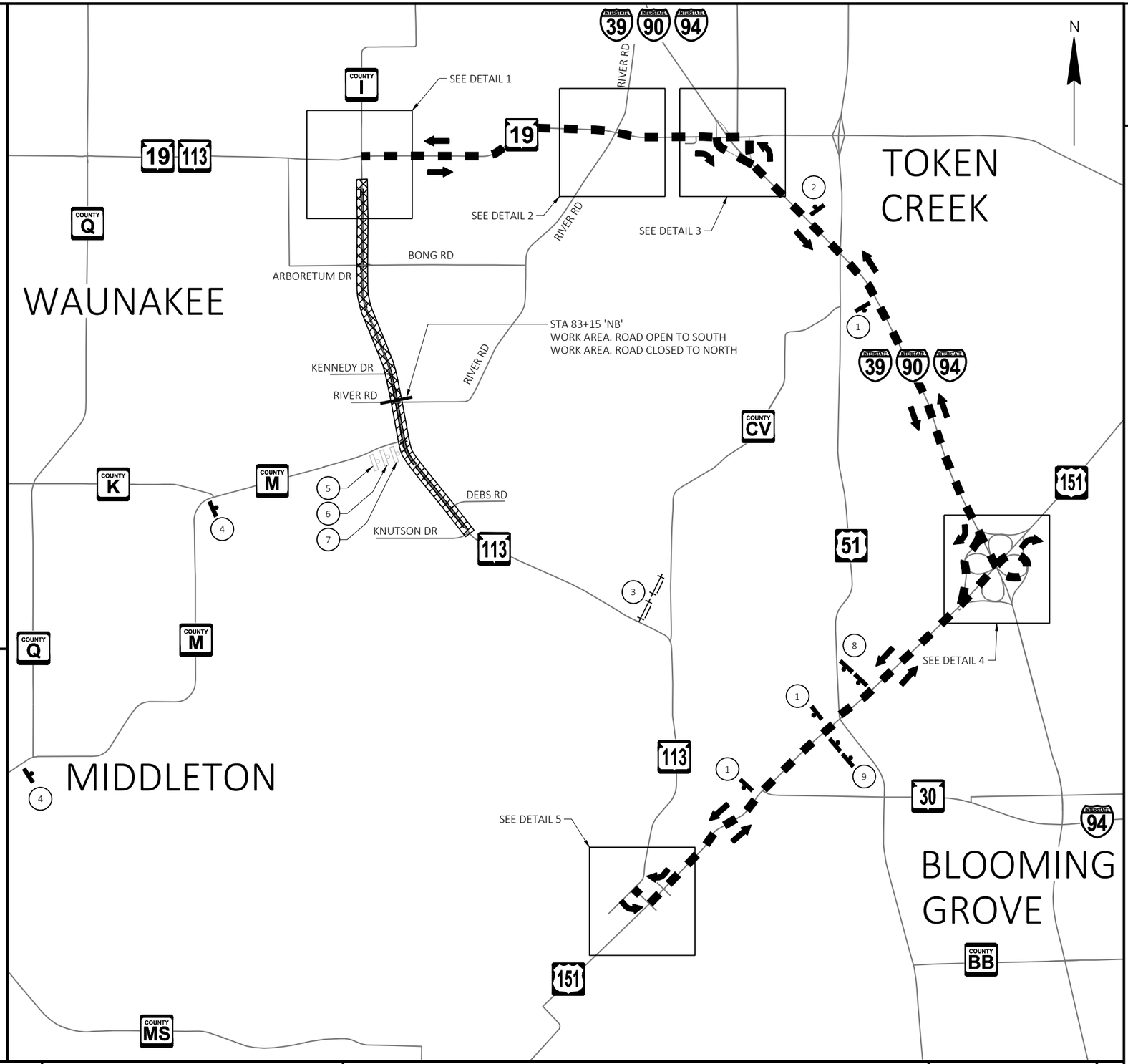


DETOUR NOTES:

1. DETOUR TO REMAIN IN PLACE FOR STAGE 1B THROUGH STAGE 2C.
2. DRAWINGS SHOW TRAFFIC CONTROL DETOUR FOR TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON SITE CONDITIONS AS DIRECTED BY THE ENGINEER. ALL CHANGES TO THE TRAFFIC CONTROL DETOUR PLAN SHALL BE REVIEWED WITH THE PROJECT ENGINEER.
3. SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" AND "DETOUR SIGNING FOR MAINLINE CLOSURES".
4. TRAFFIC CONTROL DETOUR PLANS ARE NOT TO SCALE.

LEGEND

- DETOUR ROUTE
- WORK AREA. ROAD OPEN
- WORK AREA. ROAD CLOSED
- DIRECTION OF TRAFFIC
- SIGN ON EXISTING SUPPORT
- SIGN ON PERMANENT SUPPORT(S)
- PLACE ONE SIGN OR BARRICADE IN MEDIAN AND ONE SIGN OR BARRICADE ON RIGHT SIDE
- TYPE III BARRICADE WITH SIGN
- EXISTING SIGN TO BE COVERED



PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	DETOUR PLAN	SHEET 134	E

1
SOUTH
M3-3
24"X12"
113
M1-6
24"X24"
DETOUR AHEAD
W20.2-4
48"X48"

2
SOUTH
M3-3
36"X18"
113
M1-6
36"X36"
DETOUR AHEAD
W20.2-4
48"X48"

3
DETOUR
M4-8
24"X12"
EAST
19
SOUTH
113
COVER WITH
M05-1L
21"X21"

4
DETOUR
M4-8
24"X12"
SOUTH
M3-3
24"X12"
113
M1-6
24"X24"
M06-1
21"X21"

5
DETOUR
M4-8
24"X12"
SOUTH
M3-3
24"X12"
113
M1-6
24"X24"

6
DETOUR
NEXT 13 MILES
G20-51
60"X24"

7
ROAD CLOSED
TO THRU TRAFFIC
1/4 MILES AHEAD
R11-3
60"X30"

8
DETOUR
M4-8
36"X18"
SOUTH
M3-3
36"X18"
113
M1-6
36"X36"
M06-1
30"X30"
ONLY
MOUNT ON OVERHEAD STRUCTURE POLES

9
WEST NORTH
19
113
Waunakee

10
END DETOUR
M4-8A
24"X18"
NORTH
M3-1
24"X12"
113
M1-6
24"X24"

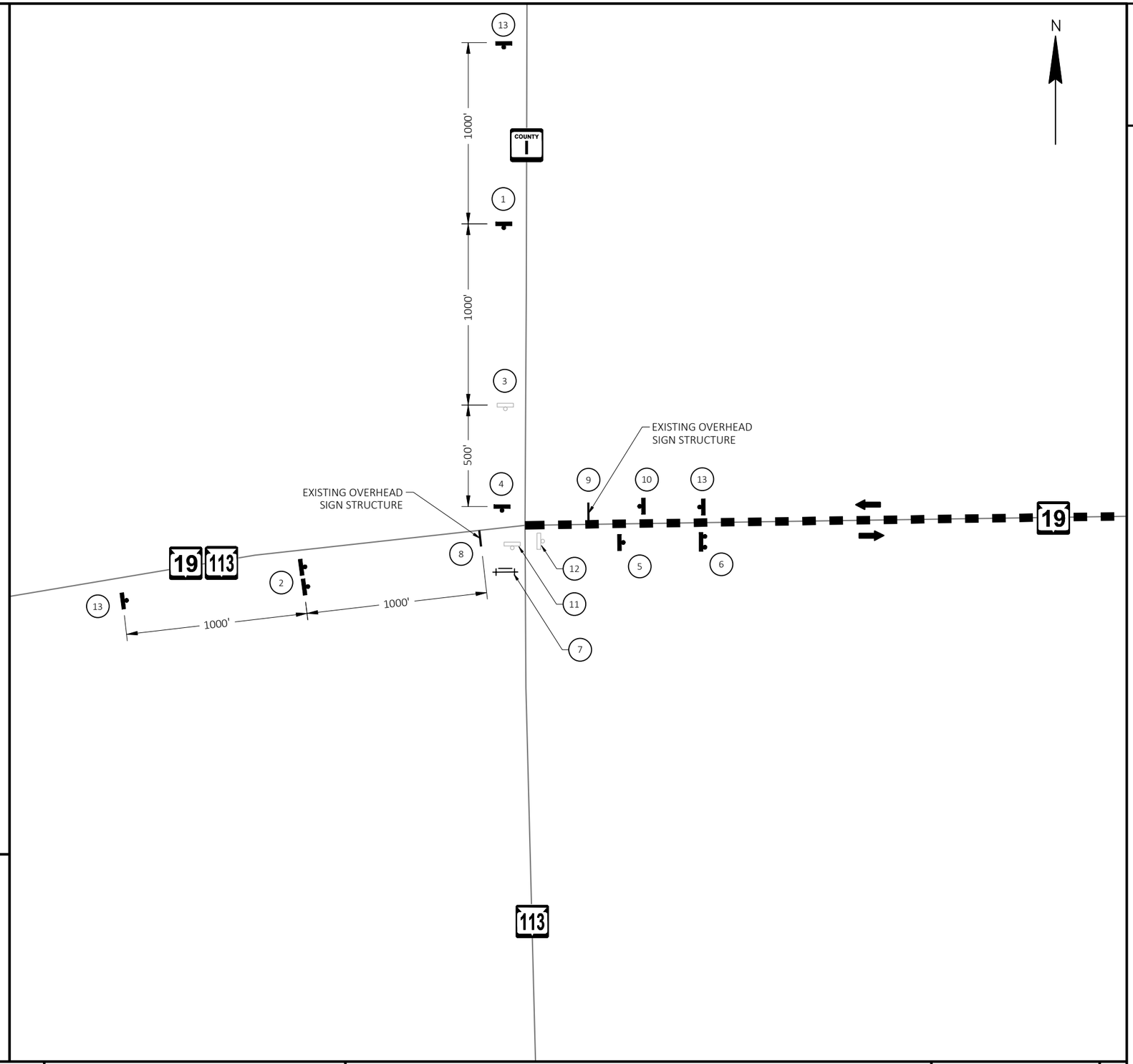
11
DETOUR
M4-8
24"X12"
SOUTH
M3-3
24"X12"
113
M1-6
24"X24"
M06-2
21"X21"

12
EAST
19
DETOUR
M4-8
24"X12"
SOUTH
M3-3
24"X12"
113
M1-6
24"X24"
M06-2
21"X21"

13
SOUTH
M3-3
24"X12"
113
M1-6
24"X24"
ROAD CLOSED AHEAD
W20.3A
48"X48"

LEGEND

- DETOUR ROUTE
- WORK AREA. ROAD OPEN
- WORK AREA. ROAD CLOSED
- DIRECTION OF TRAFFIC
- SIGN ON EXISTING SUPPORT
- SIGN ON PERMANENT SUPPORT(S)
- PLACE ONE SIGN OR BARRICADE IN MEDIAN AND ONE SIGN OR BARRICADE ON RIGHT SIDE
- TYPE III BARRICADE WITH SIGN
- EXISTING SIGN TO BE COVERED



2

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	DETOUR PLAN - DETAIL 1	SHEET 135	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - 027004-dt
PLOT DATE : 10/6/2022 9:55 AM
PLOT BY : AMANDA DEAMICO
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

1

DETOUR M4-8 36"X18"
DETOUR M4-8 36"X18"
SOUTH M3-3 36"X18"
SOUTH M3-3 36"X18"
113 M1-6 36"X36"
113 M1-6 36"X36"
M06-1 30"X30"
M06-1 30"X30"

MOUNT ON OVERHEAD STRUCTURE POLES

2

EAST 19

DETOUR M4-8 24"X12"
SOUTH M3-3 24"X12"
113 M1-6 24"X24"
M06-2 21"X21"

3

DETOUR M4-8 24"X12"
SOUTH M3-3 24"X12"
113 M1-6 24"X24"

4

DETOUR M4-8 36"X18"
DETOUR M4-8 36"X18"
NORTH M3-1 24"X12"
NORTH M3-1 24"X12"
113 M1-6 36"X36"
113 M1-6 36"X36"
M06-1 30"X30"
M06-1 30"X30"

MOUNT ON OVERHEAD STRUCTURE POLES

5

WEST 19

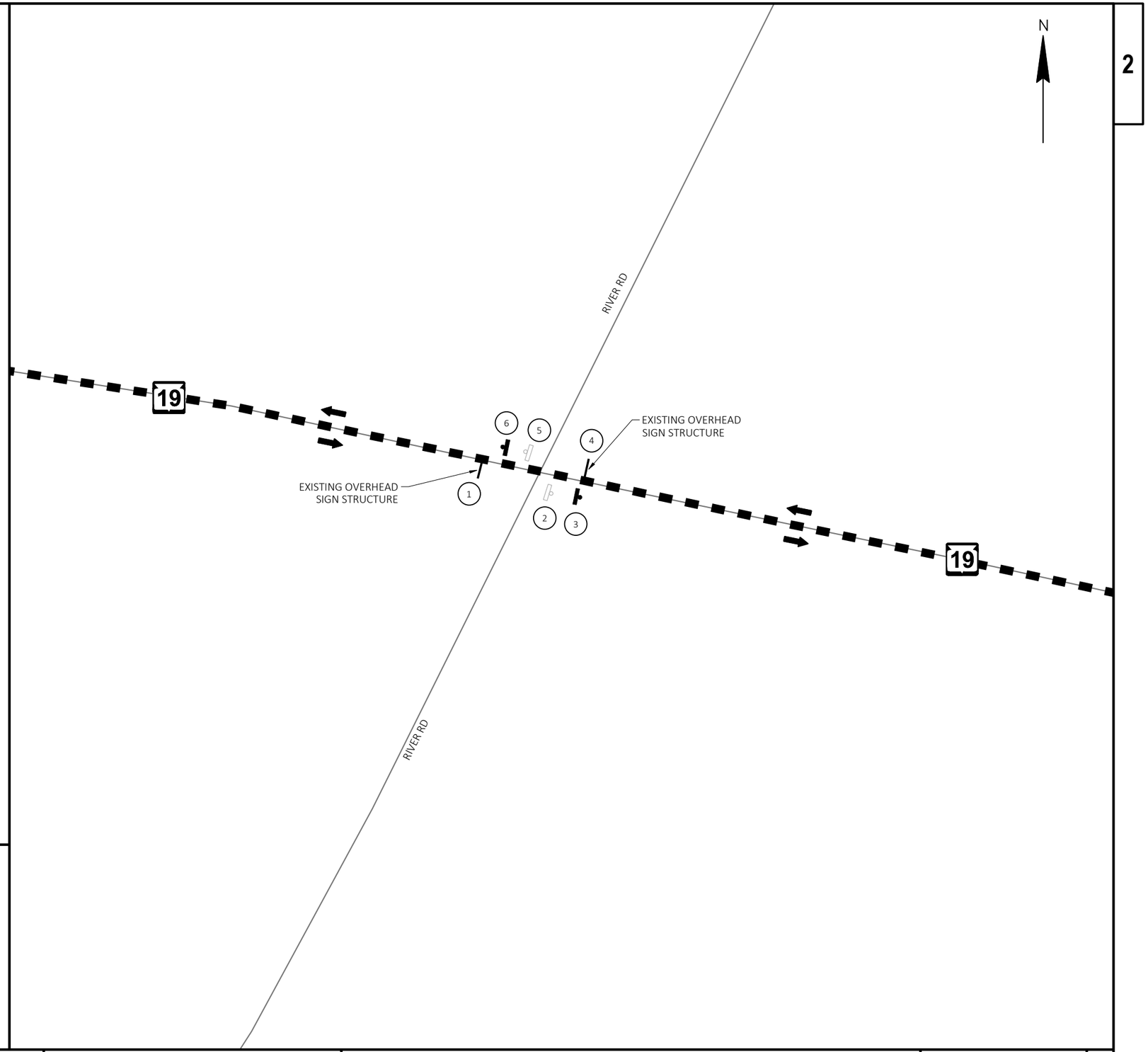
DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
113 M1-6 24"X24"
M06-2 21"X21"

6

DETOUR M4-8 24"X12"
NORTH M3-1 24"X12"
113 M1-6 24"X24"

LEGEND

- DETOUR ROUTE
- WORK AREA. ROAD OPEN
- WORK AREA. ROAD CLOSED
- DIRECTION OF TRAFFIC
- SIGN ON EXISTING SUPPORT
- SIGN ON PERMANENT SUPPORT(S)
- PLACE ONE SIGN OR BARRICADE IN MEDIAN AND ONE SIGN OR BARRICADE ON RIGHT SIDE
- TYPE III BARRICADE WITH SIGN
- EXISTING SIGN TO BE COVERED



2

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	DETOUR PLAN - DETAIL 2	SHEET 136	E

2

1 — SOUTH M3-3 36"X18" / 113 M1-6 36"X36" / DETOUR AHEAD W20-2-A 48"X48"

2 — DETOUR M4-8 36"X18" / SOUTH M3-3 36"X18" / 113 M1-6 36"X36" / M06-1 30"X30"

3 — DETOUR M4-8 36"X18" / SOUTH M3-3 36"X18" / 113 M1-6 36"X36" / M05-1R 30"X30"

4 — DETOUR M4-8 36"X18" / SOUTH M3-3 36"X18" / 113 M1-6 36"X36" / M06-1 30"X30"

5 — DETOUR M4-8 36"X18" / SOUTH M3-3 36"X18" / 113 M1-6 36"X36"

6 — DETOUR M4-8 36"X18" / NORTH M3-1 36"X18" / 113 M1-6 36"X36" / M05-2R 30"X30"

7 — DETOUR M4-8 36"X18" / NORTH M3-1 36"X18" / 113 M1-6 36"X36" / M06-2 30"X30"

8 — DETOUR M4-8 24"X12" / NORTH M3-1 24"X12" / 113 M1-6 24"X24" / M05-1L 21"X21"

9 — DETOUR M4-8 24"X12" / NORTH M3-1 24"X12" / 113 M1-6 24"X24" / M06-1 21"X21"

10 — DETOUR M4-8 36"X18" / NORTH M3-1 36"X18" / 113 M1-6 36"X36" / M06-1 30"X30"

11 — DETOUR M4-8 36"X18" / NORTH M3-1 36"X18" / 113 M1-6 36"X36"

12 — MOUNT ON OVERHEAD STRUCTURE POLE — DETOUR M4-8 36"X18" / SOUTH M3-3 36"X18" / 113 M1-6 36"X36" / USE LEFT LANE MO4-20L 36"X36"

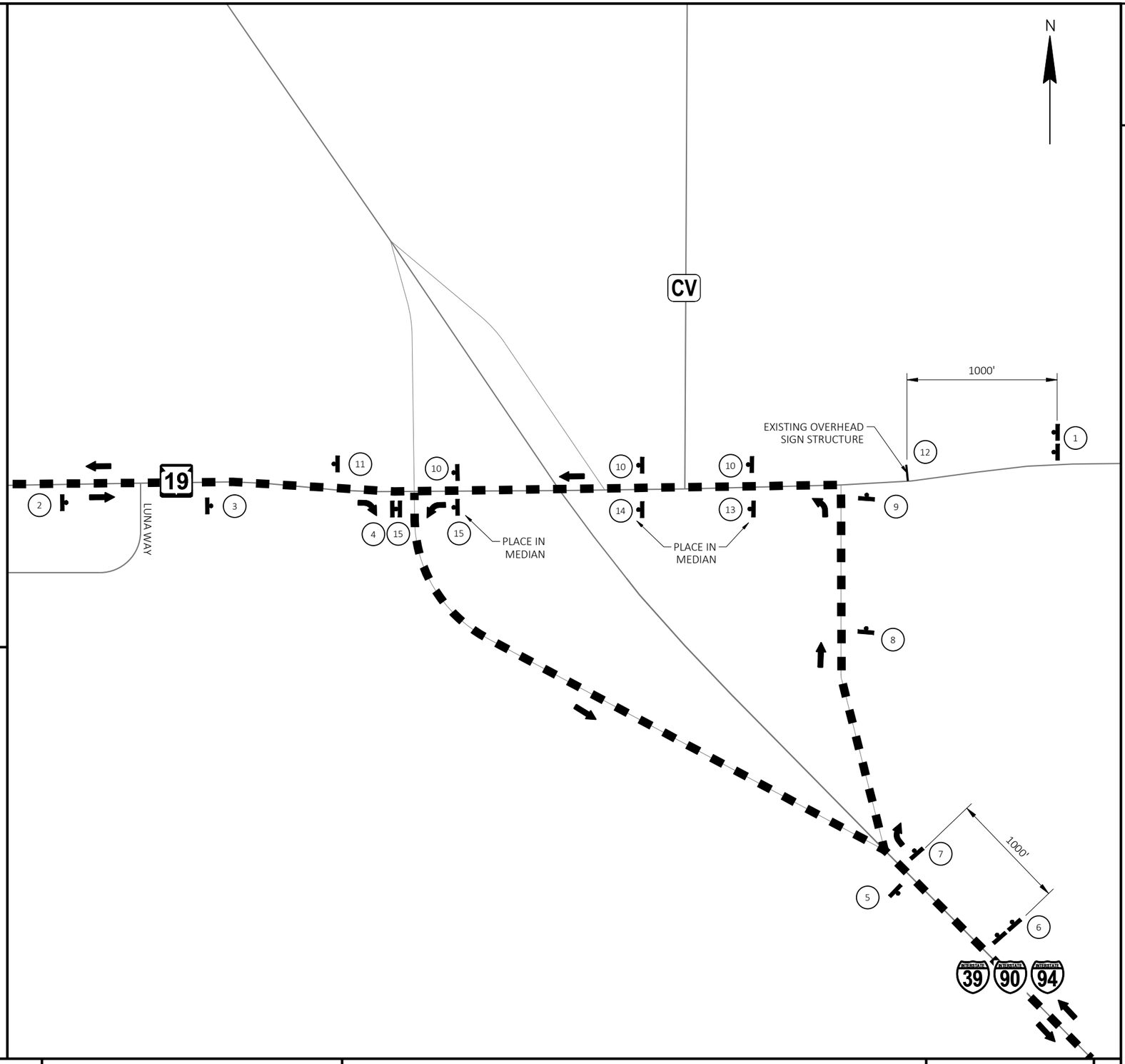
13 — DETOUR M4-8 36"X18" / SOUTH M3-3 36"X18" / 113 M1-6 36"X36" / M06-1 30"X30"

14 — DETOUR M4-8 36"X18" / SOUTH M3-3 36"X18" / 113 M1-6 36"X36" / M05-1L 30"X30"

15 — DETOUR M4-8 36"X18" / SOUTH M3-3 36"X18" / 113 M1-6 36"X36" / M06-1 30"X30"

LEGEND

- DETOUR ROUTE
- WORK AREA. ROAD OPEN
- WORK AREA. ROAD CLOSED
- DIRECTION OF TRAFFIC
- SIGN ON EXISTING SUPPORT
- SIGN ON PERMANENT SUPPORT(S)
- PLACE ONE SIGN OR BARRICADE IN MEDIAN AND ONE SIGN OR BARRICADE ON RIGHT SIDE
- TYPE III BARRICADE WITH SIGN
- EXISTING SIGN TO BE COVERED



PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	DETOUR PLAN - DETAIL 3	SHEET 137	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - 027006-dt

PLOT DATE : 10/6/2022 9:55 AM PLOT BY : AMANDA DEAMICO PLOT NAME : PLOT SCALE : 1 IN:400 FT

WISDOT/CADDS SHEET 42

1 DETOUR M4-8 36"X18" / SOUTH M3-3 36"X18" / 113 M1-6 36"X36" / MO5-2R 30"X30"

2 DETOUR M4-8 36"X18" / SOUTH M3-3 36"X18" / 113 M1-6 36"X36" / M06-2 30"X30"

3 DETOUR M4-8 36"X18" / SOUTH M3-3 36"X18" / 113 M1-6 36"X36"

4 DETOUR M4-8 36"X18" / NORTH M3-1 36"X18" / 113 M1-6 36"X36" / M06-1 30"X30"

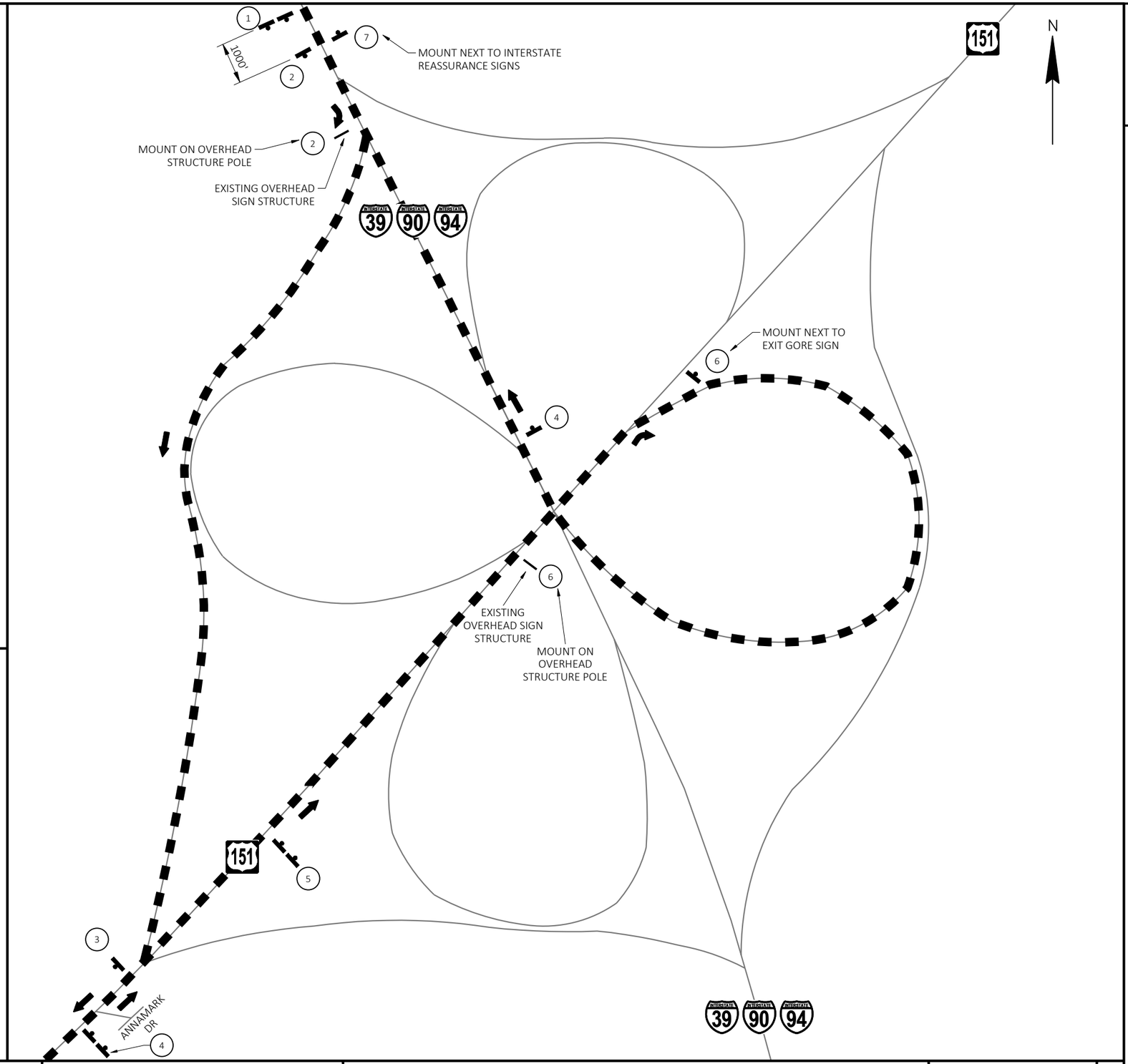
5 DETOUR M4-8 36"X18" / NORTH M3-1 36"X18" / 113 M1-6 36"X36" / MO5-2R 30"X30"

6 DETOUR M4-8 36"X18" / NORTH M3-1 36"X18" / 113 M1-6 36"X36" / M06-2 30"X30"

7 DETOUR M4-8 24"X12" / NORTH M3-1 36"X18" / 113 M1-6 24"X24"

LEGEND

- DETOUR ROUTE
- WORK AREA. ROAD OPEN
- WORK AREA. ROAD CLOSED
- DIRECTION OF TRAFFIC
- SIGN ON EXISTING SUPPORT
- SIGN ON PERMANENT SUPPORT(S)
- PLACE ONE SIGN OR BARRICADE IN MEDIAN AND ONE SIGN OR BARRICADE ON RIGHT SIDE
- TYPE III BARRICADE WITH SIGN
- EXISTING SIGN TO BE COVERED



2

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	DETOUR PLAN - DETAIL 4	SHEET 138	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - 027007-dt
PLOT DATE : 10/6/2022 9:55 AM
PLOT BY : AMANDA DEAMICO
PLOT NAME :
PLOT SCALE : 1 IN:450 FT
WISDOT/CADDS SHEET 42

2

1 NORTH M3-1 24"X12" / 113 M1-6 24"X24" / DETOUR AHEAD W20-2-A 48"X48"

2 DETOUR M4-8 24"X12" / NORTH M3-1 24"X12" / 113 M1-6 24"X24" / M06-1 21"X21"

3 DETOUR M4-8 24"X12" / NORTH M3-1 24"X12" / 113 M1-6 24"X24"

4 DETOUR NEXT 12 MILES G20-51 60"X24"

5 ROAD CLOSED TO THRU TRAFFIC 6 MILES AHEAD R11-3 60"X30"

6 DETOUR M4-8 24"X12" / NORTH M3-1 24"X12" / 113 M1-6 24"X24" / M05-1R 21"X21"

7 DETOUR M4-8 24"X12" / NORTH M3-1 24"X12" / 113 M1-6 24"X24" / M06-1 21"X21"

8 DETOUR M4-8 24"X12" / NORTH M3-1 24"X12" / 113 M1-6 24"X24" / M05-1L 21"X21"

9 DETOUR M4-8 24"X12" / NORTH M3-1 24"X12" / 113 M1-6 24"X24" / M06-1 21"X21"

11 DETOUR M4-8 24"X12" / COVER WITH M06-1 21"X21" / NORTH 113 NORTH 151

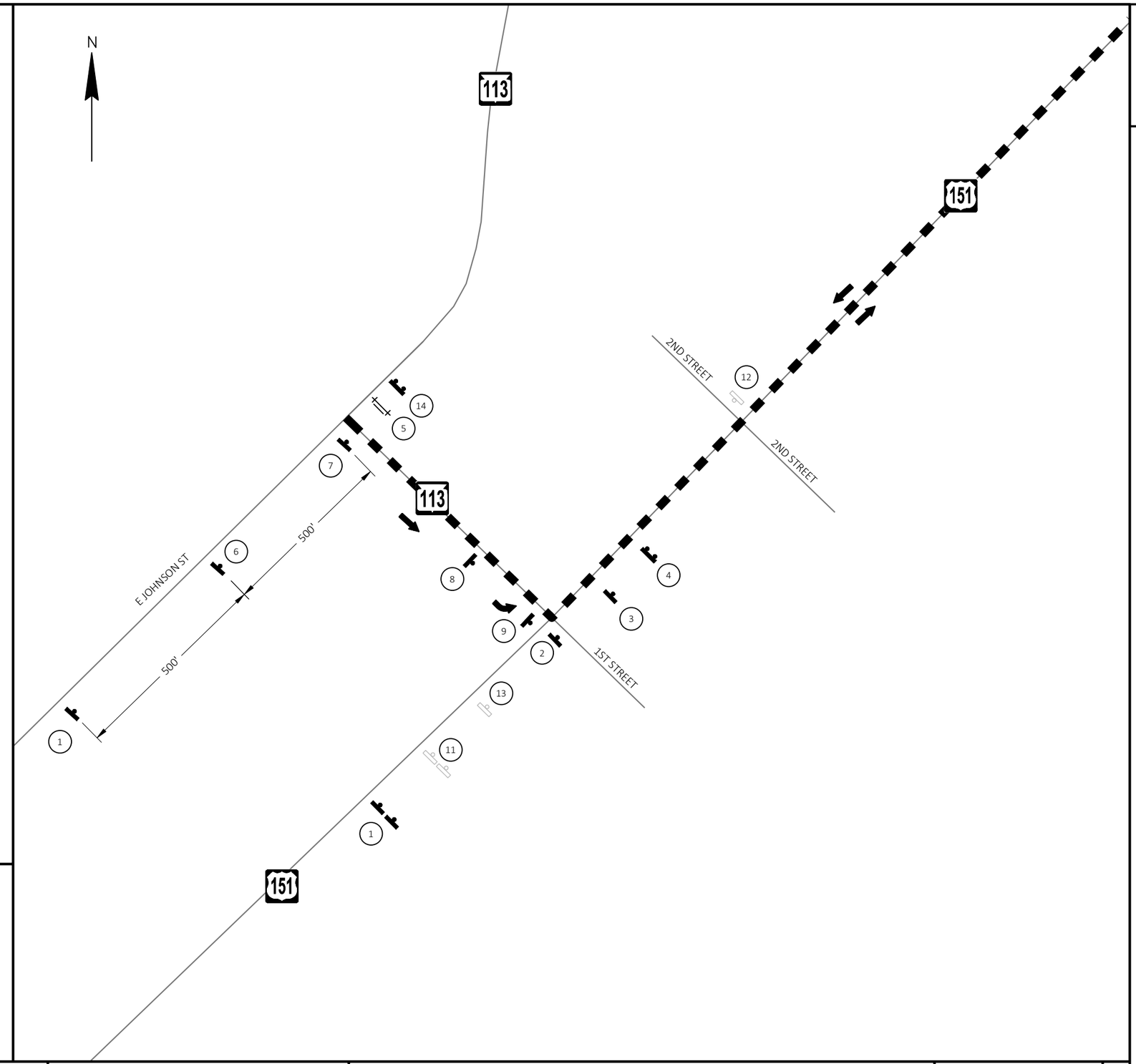
12 END DETOUR M4-8A 24"X18" / JCT 113

13

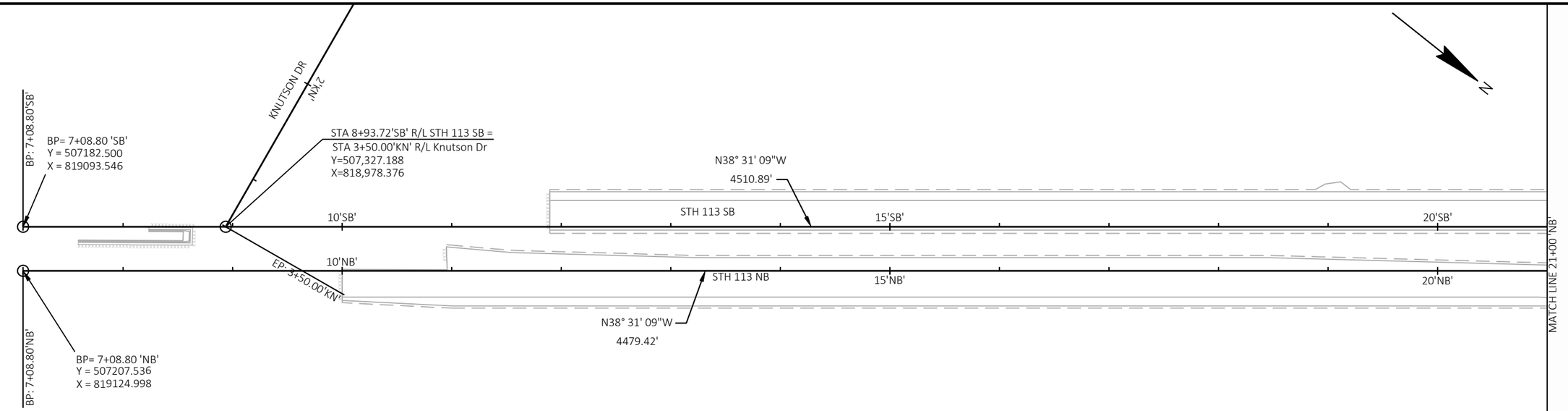
14 ROAD OPEN TO RIVER ROAD R10-61 (MOD) 60"X30"

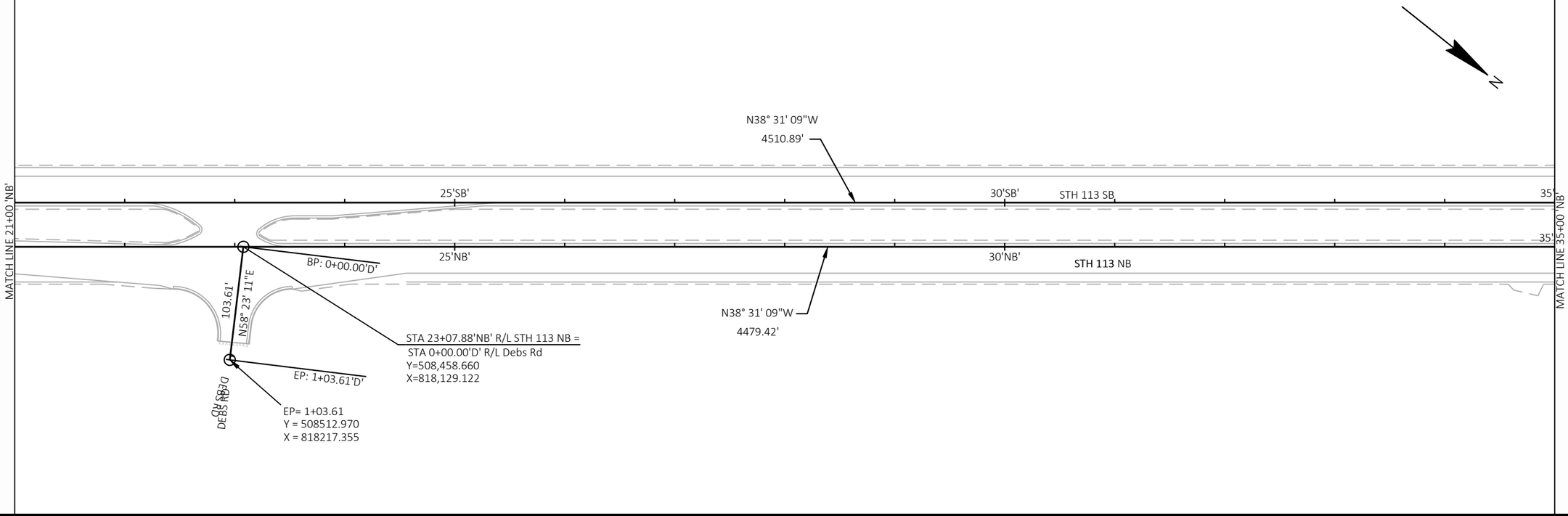
LEGEND

- DETOUR ROUTE
- WORK AREA. ROAD OPEN
- WORK AREA. ROAD CLOSED
- DIRECTION OF TRAFFIC
- SIGN ON EXISTING SUPPORT
- SIGN ON PERMANENT SUPPORT(S)
- PLACE ONE SIGN OR BARRICADE IN MEDIAN AND ONE SIGN OR BARRICADE ON RIGHT SIDE
- TYPE III BARRICADE WITH SIGN
- EXISTING SIGN TO BE COVERED

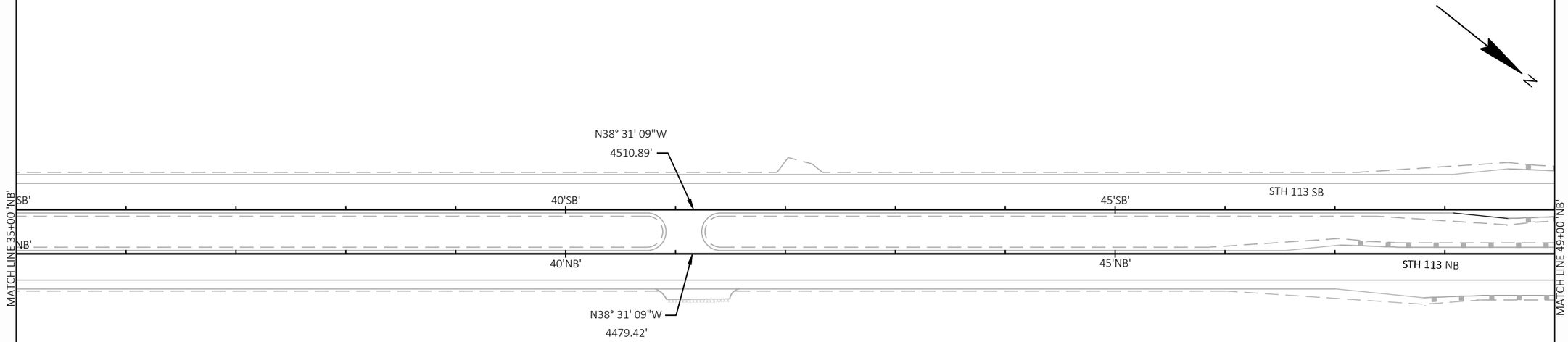


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	DETOUR PLAN - DETAIL 5	SHEET 139	E

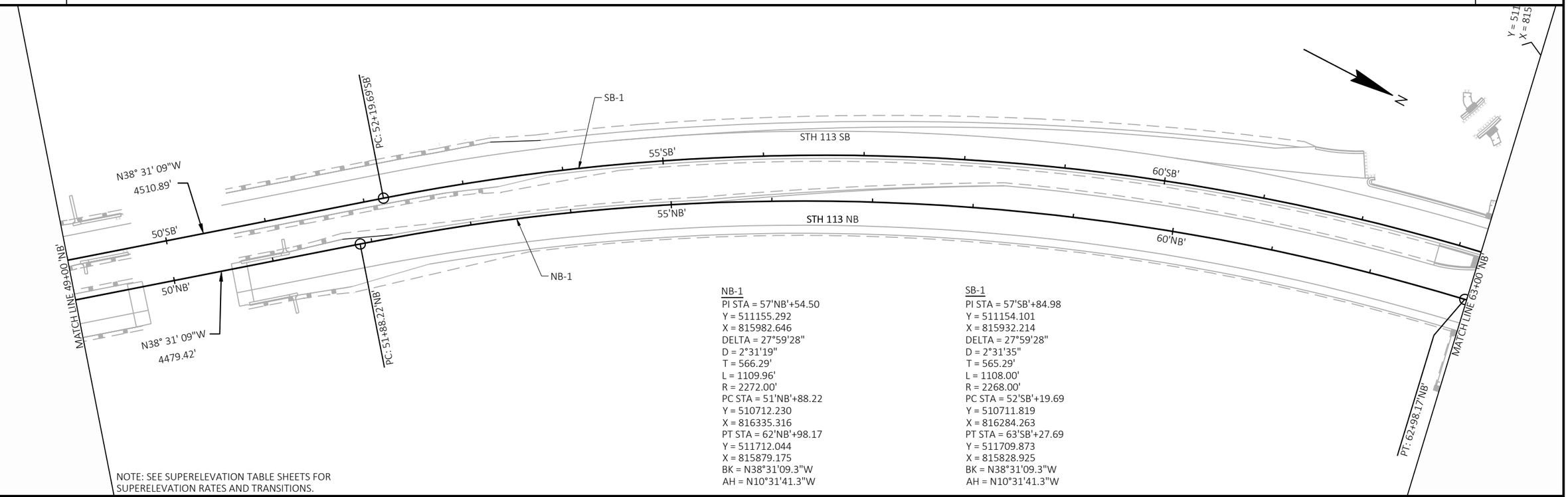




PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	ALIGNMENT DETAILS	SHEET 140	E



2



NOTE: SEE SUPERELEVATION TABLE SHEETS FOR SUPERELEVATION RATES AND TRANSITIONS.

NB-1
PI STA = 57'NB'+54.50
Y = 511155.292
X = 815982.646
DELTA = 27°59'28"
D = 2°31'19"
T = 566.29'
L = 1109.96'
R = 2272.00'
PC STA = 51'NB'+88.22
Y = 510712.230
X = 816335.316
PT STA = 62'NB'+98.17
Y = 511712.044
X = 815879.175
BK = N38°31'09.3"W
AH = N10°31'41.3"W

SB-1
PI STA = 57'SB'+84.98
Y = 511154.101
X = 815932.214
DELTA = 27°59'28"
D = 2°31'35"
T = 565.29'
L = 1108.00'
R = 2268.00'
PC STA = 52'SB'+19.69
Y = 510711.819
X = 816284.263
PT STA = 63'SB'+27.69
Y = 511709.873
X = 815828.925
BK = N38°31'09.3"W
AH = N10°31'41.3"W

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	ALIGNMENT DETAILS	SHEET 141	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - 027202-ad
PLOT DATE : 10/27/2022 3:29 PM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

2

SEE CTH M ALIGNMENT DETAIL SHEET

PT: 63+27.69'SB'

10'MEB'

22'MWB'

MATCH LINE 63+00 'NB'

N10° 31' 41"W
3380.21'

65'SB' 70'SB' STH 113 SB 75'SB'

65'NB' 70'NB' STH 113 NB 75'NB'

STA 63+73.04'SB' R/L STH 113 SB =
STA 22+25.00'MWB' R/L CTH M WB
Y=511,754.458
X=815,820.639

STA 63+69.40'SB' R/L STH 113 SB =
STA 11+25.00'MEB' R/L CTH M EB
Y=511,750.878
X=815,821.304

N10° 31' 41"W
2383.76'

N

BP: 0+00.00'WRR'
Y = 513632.388
X = 815213.194

STA 82+84.87'SB' R/L STH 113 SB=
STA 2+58.11'WRR' R/L W River Rd
Y=513,634.105
X=815,471.300

RIVER RD

258.11'
N89° 37' 08"E

2'WRR'

PI: 4+84.30'LT'

PI: 3+62.91'LT'

PI: 0+97.98'LT'

BP: 0+00.00'LT'

N10° 31' 41"W
3380.21'

STH 113 SB

80'SB'

N15° 06' 07"W
97.98'

2'LT' N10° 31' 41"W
264.93'

4'LT'

N15° 20' 52"W
121.39'

85'SB'

6'LT' N10° 31' 41"W
264.93'

PI: 7+49.23'LT'

N15° 06' 07"W
97.98'

8'LT'

EP: 8+47.21'LT'

EP 8+47.21'LT'
X = 815,406.260
Y = 514,049.739

90'SB'

MATCH LINE 77+00 'NB'

STH 113 NB

80'NB'

EP: 2+58.11'WRR'

BP: 0+00.00'ERR'

85'NB'

90'NB'

MATCH LINE 91+00 'NB'

N10° 31' 41"W
2383.76'

BP 0+00.00'LT'
X = 815,586.261
Y = 513,222.544

274.62'
N89° 20' 35"E

RIVER RD

STA 82+57.09'NB' R/L STH 113 NB =
STA 0+00.00'ERR' R/L E River Rd
Y=513,637.981
X=815,521.246

2'ERR'

Y = 513641.130
X = 815795.850
EP: 2+74.62'ERR'

NB-2

PI STA = 87'NB'+99.99
Y = 514171.747
X = 815422.047
DELTA = 2°22'14"
D = 1°00'15"
T = 118.06'
L = 236.09'
R = 5706.00'
PC STA = 86'NB'+81.93
Y = 514055.671
X = 815443.619
PT STA = 89'NB'+18.02
Y = 514286.830
X = 815395.692
BK = N10°31'41.3"W
AH = N12°53'55.7"W

NB-2

PC: 86+81.93'NB'

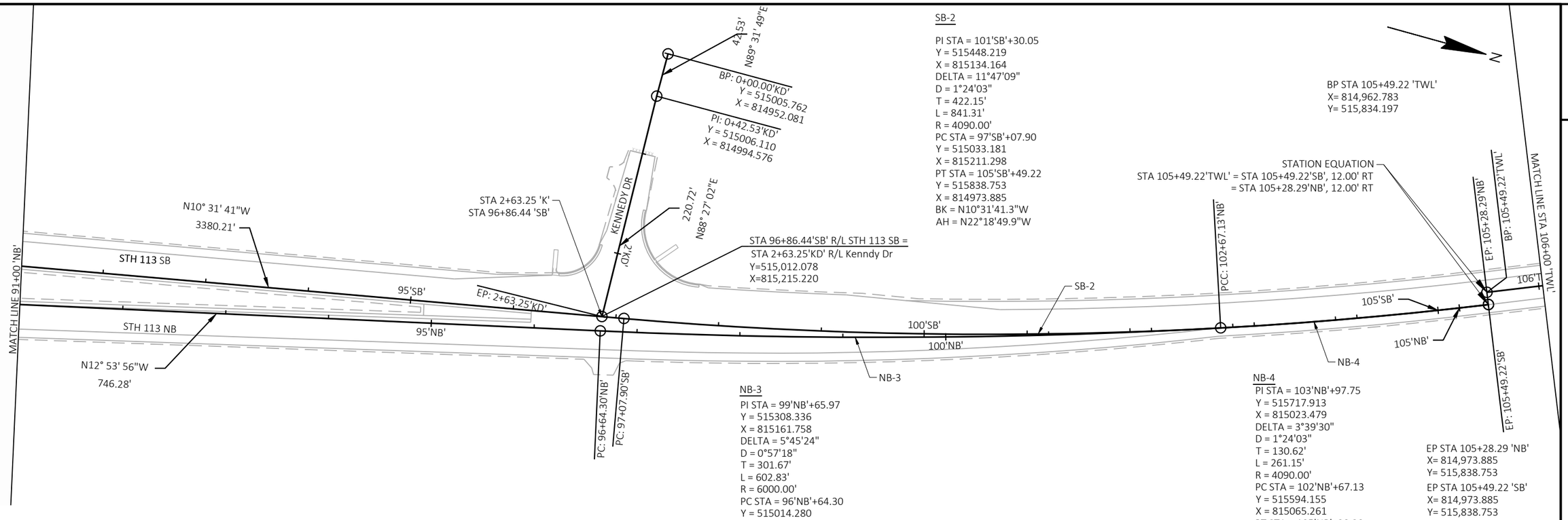
PT: 89+18.02'NB'

N12° 53' 56"W
746.28'

NOTE: SEE SUPERELEVATION TABLE SHEETS FOR SUPERELEVATION RATES AND TRANSITIONS.

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	ALIGNMENT DETAILS	SHEET 142	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - 027203-ad
PLOT DATE : 10/27/2022 3:29 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



SB-2

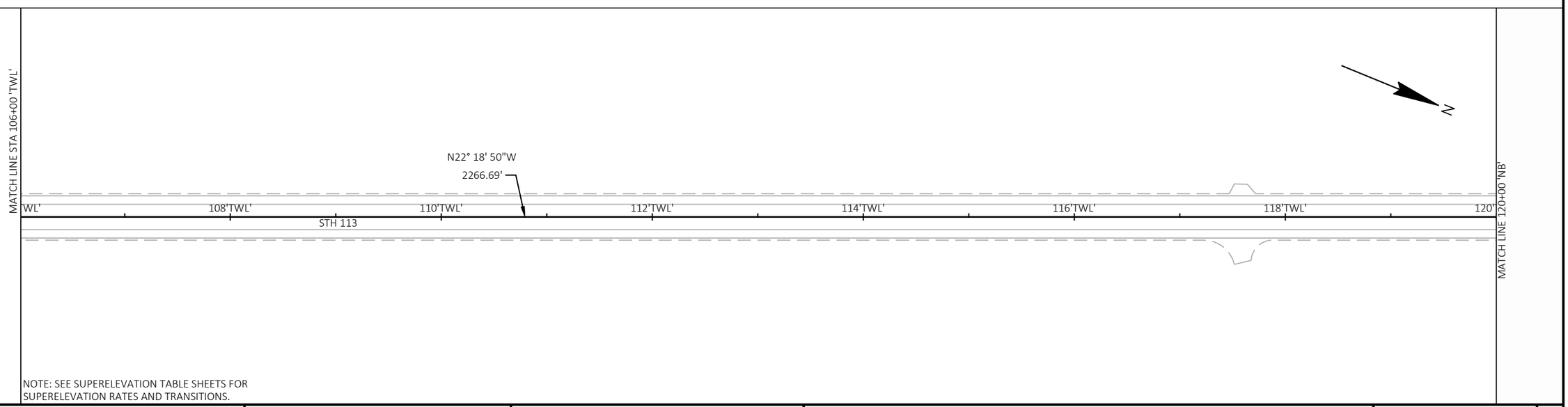
PI STA = 101'SB'+30.05
Y = 515448.219
X = 815134.164
DELTA = 11°47'09"
D = 1°24'03"
T = 422.15'
L = 841.31'
R = 4090.00'
PC STA = 97'SB'+07.90
Y = 515033.181
X = 815211.298
PT STA = 105'SB'+49.22
Y = 515838.753
X = 814973.885
BK = N10°31'41.3"W
AH = N22°18'49.9"W

NB-3

PI STA = 99'NB'+65.97
Y = 515308.336
X = 815161.758
DELTA = 5°45'24"
D = 0°57'18"
T = 301.67'
L = 602.83'
R = 6000.00'
PC STA = 96'NB'+64.30
Y = 515014.280
X = 815229.099
PT STA = 102'NB'+67.13
Y = 515594.155
X = 815065.261
BK = N12°53'55.7"W
AH = N18°39'19.5"W

NB-4

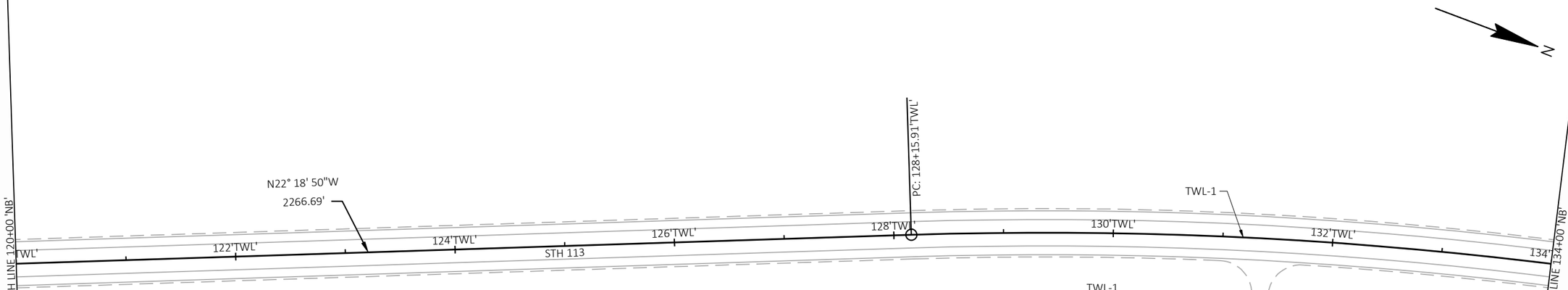
PI STA = 103'NB'+97.75
Y = 515717.913
X = 815023.479
DELTA = 3°39'30"
D = 1°24'03"
T = 130.62'
L = 261.15'
R = 4090.00'
PC STA = 102'NB'+67.13
Y = 515594.155
X = 815065.261
PT STA = 105'NB'+28.29
Y = 515838.753
X = 814973.885
BK = N18°39'19.5"W
AH = N22°18'49.9"W



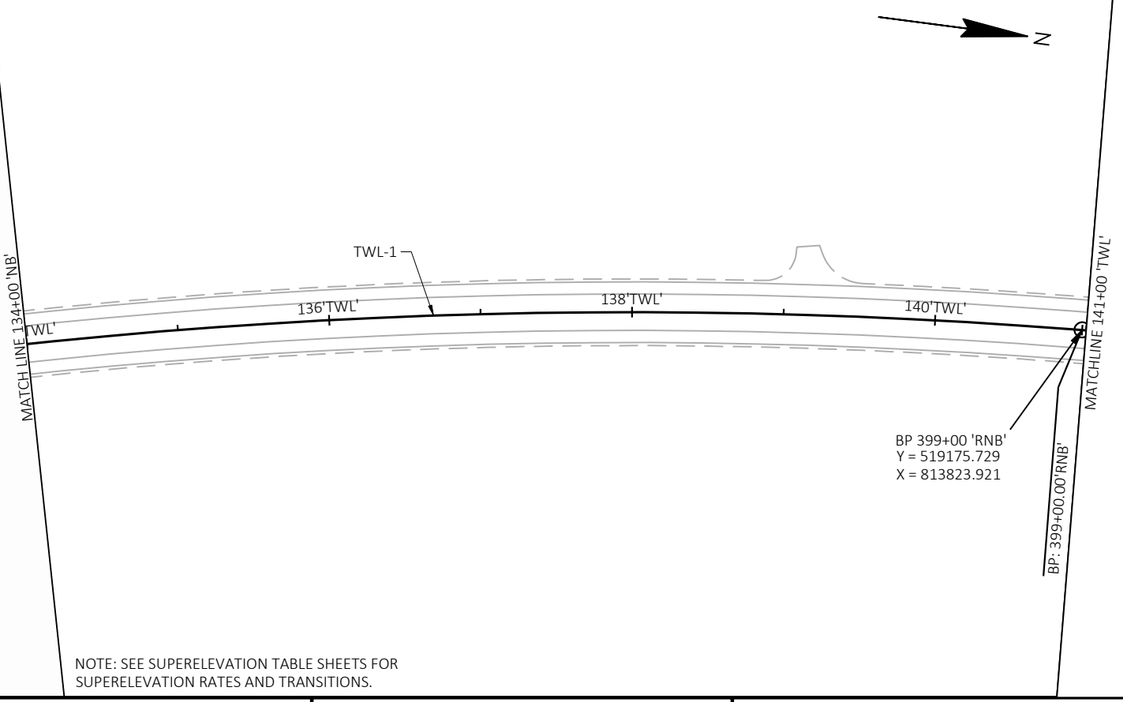
NOTE: SEE SUPERELEVATION TABLE SHEETS FOR SUPERELEVATION RATES AND TRANSITIONS.

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	ALIGNMENT DETAILS	SHEET 143	E

2

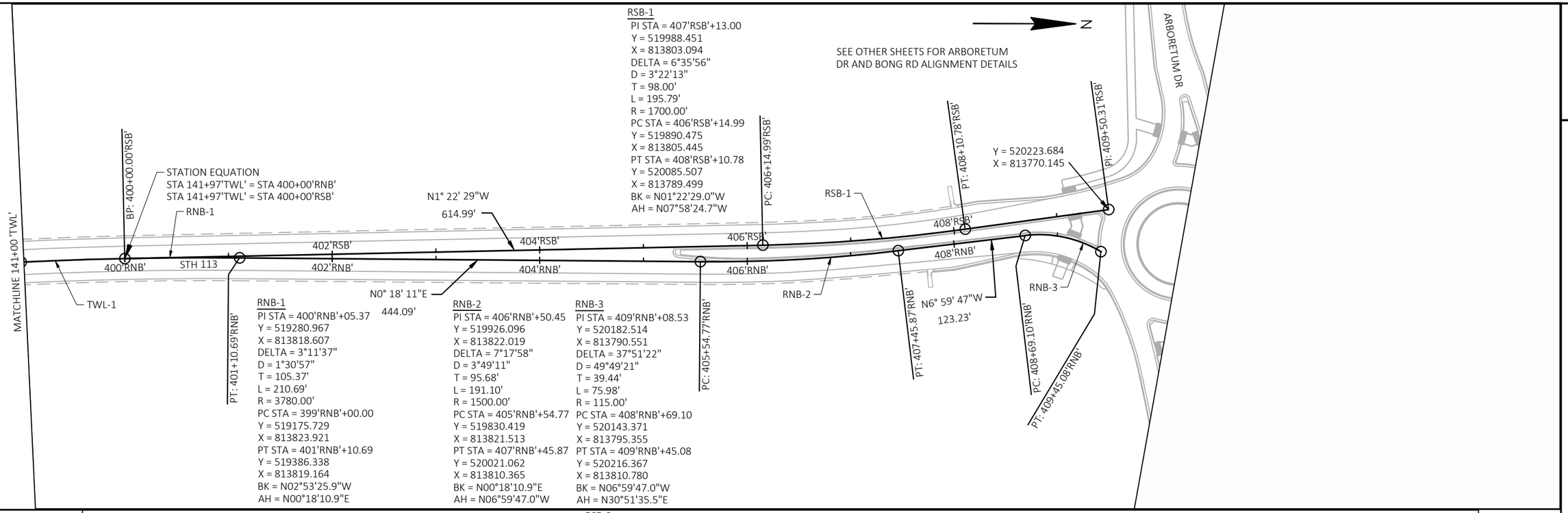


TWL-1
PI STA = 135'TWL'+71.81
Y = 518630.451
X = 813815.166
DELTA = 22°37'01"
D = 1°30'57"
T = 755.90'
L = 1492.11'
R = 3780.00'
PC STA = 128'TWL'+15.91
Y = 517931.157
X = 814102.165
PT STA = 143'TWL'+08.03
Y = 519386.338
X = 813819.164
BK = N22°18'49.9"W
AH = N00°18'10.9"E



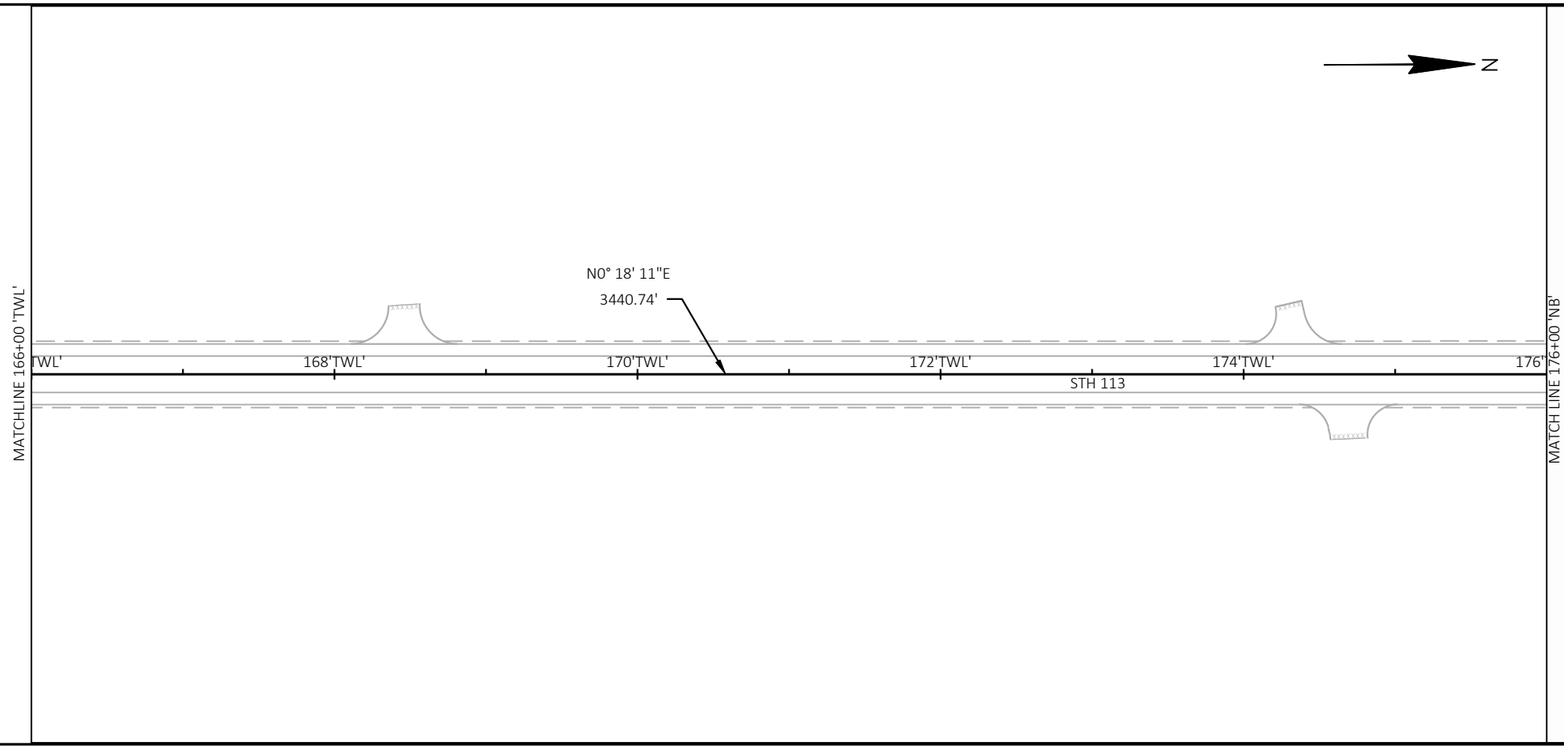
NOTE: SEE SUPERELEVATION TABLE SHEETS FOR SUPERELEVATION RATES AND TRANSITIONS.

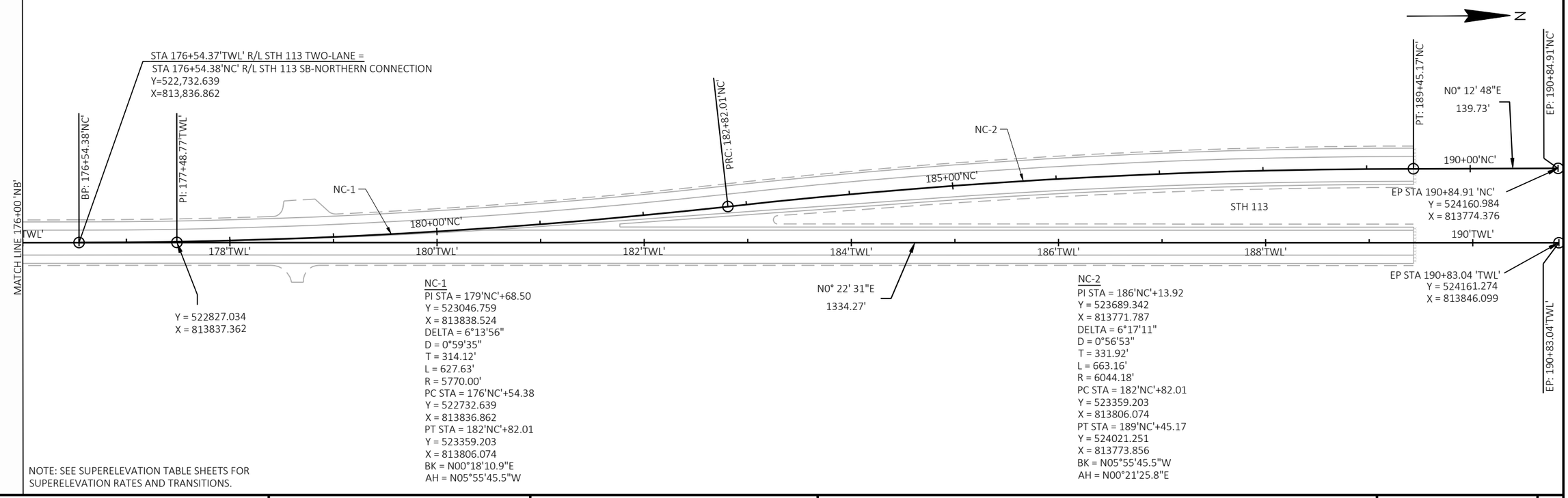
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	ALIGNMENT DETAILS	SHEET 144	E



PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	ALIGNMENT DETAILS	SHEET 145	E

2





NOTE: SEE SUPERELEVATION TABLE SHEETS FOR SUPERELEVATION RATES AND TRANSITIONS.

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	ALIGNMENT DETAILS	SHEET 146	E

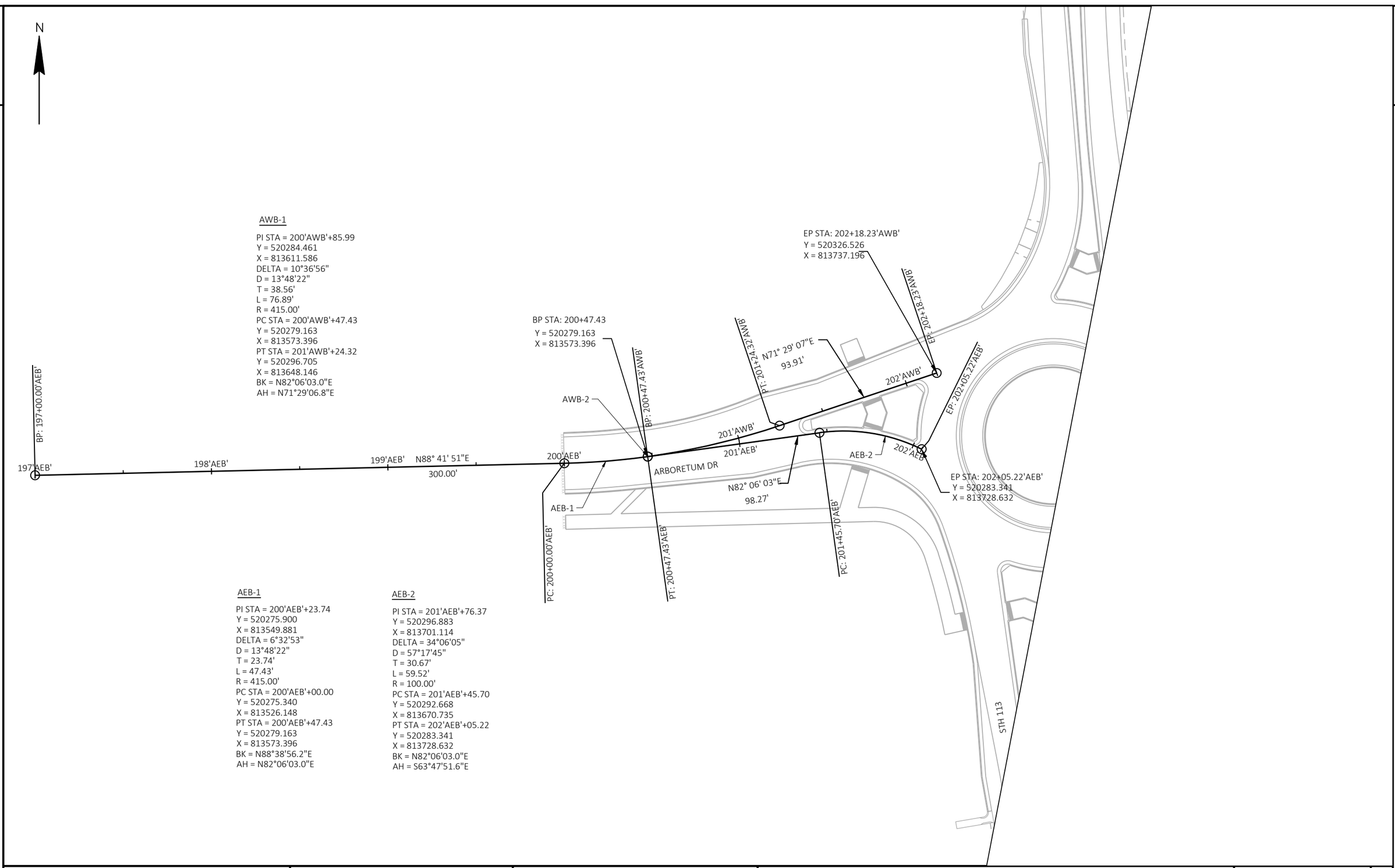
2

2

N

AWB-1

PI STA = 200'AWB'+85.99
Y = 520284.461
X = 813611.586
DELTA = 10°36'56"
D = 13°48'22"
T = 38.56'
L = 76.89'
R = 415.00'
PC STA = 200'AWB'+47.43
Y = 520279.163
X = 813573.396
PT STA = 201'AWB'+24.32
Y = 520296.705
X = 813648.146
BK = N82°06'03.0"E
AH = N71°29'06.8"E



AEB-1

PI STA = 200'AEB'+23.74
Y = 520275.900
X = 813549.881
DELTA = 6°32'53"
D = 13°48'22"
T = 23.74'
L = 47.43'
R = 415.00'
PC STA = 200'AEB'+00.00
Y = 520275.340
X = 813526.148
PT STA = 200'AEB'+47.43
Y = 520279.163
X = 813573.396
BK = N88°38'56.2"E
AH = N82°06'03.0"E

AEB-2

PI STA = 201'AEB'+76.37
Y = 520296.883
X = 813701.114
DELTA = 34°06'05"
D = 57°17'45"
T = 30.67'
L = 59.52'
R = 100.00'
PC STA = 201'AEB'+45.70
Y = 520292.668
X = 813670.735
PT STA = 202'AEB'+05.22
Y = 520283.341
X = 813728.632
BK = N82°06'03.0"E
AH = S63°47'51.6"E

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	ALIGNMENT DETAILS	SHEET 147	E

2

BWB-1
PI STA = 300'BWB'+30.56
Y = 520282.321
X = 813904.830
DELTA = 33°59'02"
D = 57°17'45"
T = 30.56'
L = 59.31'
R = 100.00'
PC STA = 300'BWB'+00.00
Y = 520296.953
X = 813878.004
PT STA = 300'BWB'+59.31
Y = 520285.183
X = 813935.254
BK = S61°23'25.7"E
AH = N84°37'32.0"E

BWB-2
PI STA = 301'BWB'+98.36
Y = 520298.206
X = 814073.690
DELTA = 6°53'29"
D = 7°09'43"
T = 48.17'
L = 96.22'
R = 800.00'
PC STA = 301'BWB'+50.19
Y = 520293.695
X = 814025.732
PT STA = 302'BWB'+46.41
Y = 520296.931
X = 814121.842
BK = N84°37'32.0"E
AH = S88°28'58.7"E

BWB-3
PI STA = 304'BWB'+36.11
Y = 520291.909
X = 814311.471
DELTA = 2°45'18"
D = 3°49'11"
T = 36.07'
L = 72.13'
R = 1500.00'
PC STA = 304'BWB'+00.04
Y = 520292.864
X = 814275.412
PT STA = 304'BWB'+72.17
Y = 520292.689
X = 814347.533
BK = S88°28'58.7"E
AH = N88°45'42.9"E

N

BP STA: 300+00.00'BWB'
Y = 520296.953
X = 813878.004

BP: 300+00.00'BWB'

BWB-1

PT: 300+59.31'BWB'

N84° 37' 32"E
90.88'

PC: 301+50.19'BWB'

BWB-2

PT: 302+46.41'BWB'

S88° 28' 59"E
153.62'

PC: 304+00.04'BWB'

BWB-3

EP: 304+72.17'BWB'

305'BE

301'BWB'

302'BWB'

303'BWB'

304'BWB'

BONG RD

301'BEB'

302'BEB'

303'BEB'

304'BEB'

N88° 45' 43"E
1155.30'

EP STA: 304+72.17'BWB'
Y = 520292.664
X = 814347.534

BEB-1

PT: 301+85.17'BEB'

BP STA: 300+00.00'BEB'
Y = 520258.028
X = 813870.611

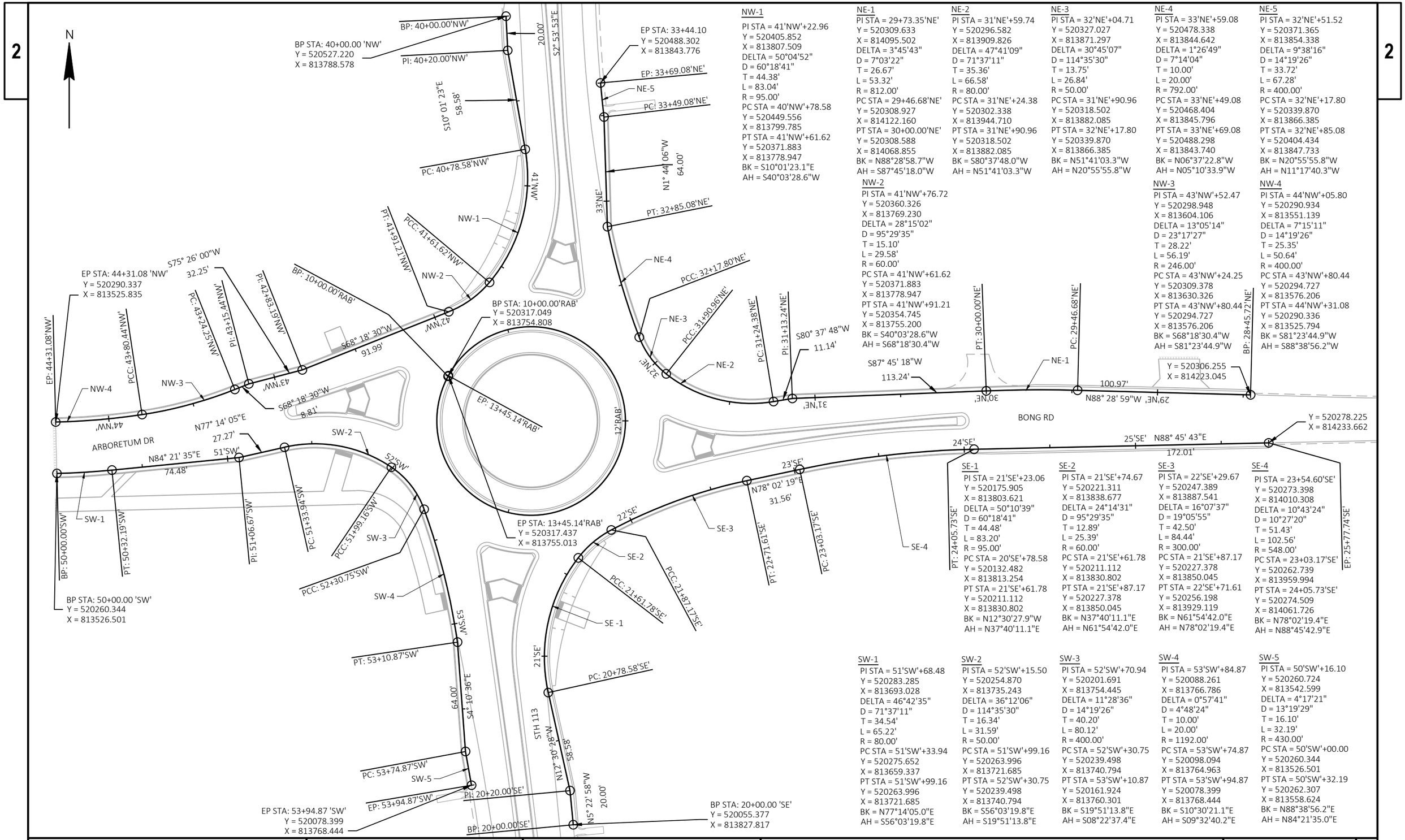
BP: 300+00.00'BEB'

STH 113

BEB-1
PI STA = 300'BEB'+93.13
Y = 520284.312
X = 813959.952
DELTA = 15°09'22"
D = 8°11'06"
T = 93.13'
L = 185.17'
R = 700.00'
PC STA = 300'BEB'+00.00
Y = 520258.028
X = 813870.611
PT STA = 301'BEB'+85.17
Y = 520286.324
X = 814053.057
BK = N73°36'20.9"E
AH = N88°45'42.9"E

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	ALIGNMENT DETAILS	SHEET 148	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\027202-AD.DWG
LAYOUT NAME - 027209-ad
PLOT DATE : 10/27/2022 3:29 PM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT



NW-1
PI STA = 41'NW'+22.96
Y = 520405.852
X = 813807.509
DELTA = 50°04'52"
D = 60°18'41"
T = 44.38'
L = 83.04'
R = 95.00'
PC STA = 40'NW'+78.58
Y = 520449.556
X = 813799.785
PT STA = 41'NW'+61.62
Y = 520371.883
X = 813778.947
BK = S10°01'23.1"E
AH = S40°03'28.6"W

NE-1
PI STA = 29+73.35'NE'
Y = 520309.633
X = 814095.502
DELTA = 3°45'43"
D = 7°03'22"
T = 26.67'
L = 53.32'
R = 812.00'
PC STA = 29+46.68'NE'
Y = 520308.927
X = 814122.160
PT STA = 30+00.00'NE'
Y = 520308.588
X = 814068.855
BK = N88°28'58.7"W
AH = S87°45'18.0"W

NW-2
PI STA = 41'NW'+76.72
Y = 520360.326
X = 813769.230
DELTA = 28°15'02"
D = 95°29'35"
T = 15.10'
L = 29.58'
R = 60.00'
PC STA = 41'NW'+61.62
Y = 520371.883
X = 813778.947
PT STA = 41'NW'+91.21
Y = 520354.745
X = 813755.200
BK = S40°03'28.6"W
AH = S68°18'30.4"W

NE-2
PI STA = 31'NE'+59.74
Y = 520296.582
X = 813909.826
DELTA = 47°41'09"
D = 71°37'11"
T = 35.36'
L = 66.58'
R = 80.00'
PC STA = 31'NE'+24.38
Y = 520302.338
X = 813944.710
PT STA = 31'NE'+90.96
Y = 520318.502
X = 813882.085
BK = S80°37'48.0"W
AH = N51°41'03.3"W

NE-3
PI STA = 32'NE'+04.71
Y = 520327.027
X = 813871.297
DELTA = 30°45'07"
D = 114°35'30"
T = 13.75'
L = 26.84'
R = 50.00'
PC STA = 31'NE'+90.96
Y = 520318.502
X = 813882.085
BK = N51°41'03.3"W
AH = N20°55'55.8"W

NE-4
PI STA = 33'NE'+59.08
Y = 520478.338
X = 813844.642
DELTA = 1°26'49"
D = 7°14'04"
T = 10.00'
L = 20.00'
R = 792.00'
PC STA = 33'NE'+49.08
Y = 520468.404
X = 813845.796
PT STA = 33'NE'+69.08
Y = 520488.298
X = 813843.740
BK = N06°37'22.8"W
AH = N05°10'33.9"W

NW-3
PI STA = 43'NW'+52.47
Y = 520298.948
X = 813604.106
DELTA = 13°05'14"
D = 23°17'27"
T = 28.22'
L = 56.19'
R = 246.00'
PC STA = 43'NW'+24.25
Y = 520309.378
X = 813630.326
PT STA = 43'NW'+80.44
Y = 520294.727
X = 813576.206
BK = S68°18'30.4"W
AH = S81°23'44.9"W

NE-5
PI STA = 32'NE'+51.52
Y = 520371.365
X = 813854.338
DELTA = 9°38'16"
D = 14°19'26"
T = 33.72'
L = 67.28'
R = 400.00'
PC STA = 32'NE'+17.80
Y = 520339.870
X = 813866.385
PT STA = 32'NE'+85.08
Y = 520404.434
X = 813847.733
BK = N20°55'55.8"W
AH = N11°17'40.3"W

NW-4
PI STA = 44'NW'+05.80
Y = 520290.934
X = 813551.139
DELTA = 7°15'11"
D = 14°19'26"
T = 25.35'
L = 50.64'
R = 400.00'
PC STA = 43'NW'+80.44
Y = 520294.727
X = 813576.206
PT STA = 44'NW'+31.08
Y = 520290.336
X = 813525.794
BK = S81°23'44.9"W
AH = S88°38'56.2"W

SE-1
PI STA = 21'SE'+23.06
Y = 520175.905
X = 813803.621
DELTA = 50°10'39"
D = 60°18'41"
T = 44.48'
L = 83.20'
R = 95.00'
PC STA = 20'SE'+78.58
Y = 520132.482
X = 813813.254
PT STA = 21'SE'+61.78
Y = 520211.112
X = 813830.802
BK = N12°30'27.9"W
AH = N37°40'11.1"E

SE-2
PI STA = 21'SE'+74.67
Y = 520221.311
X = 813838.677
DELTA = 24°14'31"
D = 95°29'35"
T = 12.89'
L = 25.39'
R = 60.00'
PC STA = 21'SE'+61.78
Y = 520211.112
X = 813830.802
PT STA = 21'SE'+87.17
Y = 520227.378
X = 813850.045
BK = N37°40'11.1"E
AH = N61°54'42.0"E

SE-3
PI STA = 22'SE'+29.67
Y = 520247.389
X = 813887.541
DELTA = 16°07'37"
D = 19°05'55"
T = 42.50'
L = 84.44'
R = 300.00'
PC STA = 21'SE'+87.17
Y = 520227.378
X = 813850.045
PT STA = 22'SE'+71.61
Y = 520256.198
X = 813929.119
BK = N61°54'42.0"E
AH = N78°02'19.4"E

SE-4
PI STA = 23+54.60'SE'
Y = 520273.398
X = 814010.308
DELTA = 10°43'24"
D = 10°27'20"
T = 51.43'
L = 102.56'
R = 548.00'
PC STA = 23+03.17'SE'
Y = 520262.739
X = 813959.994
PT STA = 24+05.73'SE'
Y = 520274.509
X = 814061.726
BK = N78°02'19.4"E
AH = N88°45'42.9"E

SW-1
PI STA = 51'SW'+68.48
Y = 520283.285
X = 813693.028
DELTA = 46°42'35"
D = 71°37'11"
T = 34.54'
L = 65.22'
R = 80.00'
PC STA = 51'SW'+33.94
Y = 520275.652
X = 813659.337
PT STA = 51'SW'+99.16
Y = 520263.996
X = 813721.685
BK = N77°14'05.0"E
AH = S56°03'19.8"E

SW-2
PI STA = 52'SW'+15.50
Y = 520254.870
X = 813735.243
DELTA = 36°12'06"
D = 114°35'30"
T = 16.34'
L = 31.59'
R = 50.00'
PC STA = 51'SW'+99.16
Y = 520263.996
X = 813721.685
PT STA = 52'SW'+30.75
Y = 520239.498
X = 813740.794
BK = S56°03'19.8"E
AH = S19°51'13.8"E

SW-3
PI STA = 52'SW'+70.94
Y = 520201.691
X = 813754.445
DELTA = 11°28'36"
D = 14°19'26"
T = 40.20'
L = 80.12'
R = 400.00'
PC STA = 52'SW'+30.75
Y = 520239.498
X = 813740.794
PT STA = 53'SW'+10.87
Y = 520161.924
X = 813760.301
BK = S19°51'13.8"E
AH = S08°22'37.4"E

SW-4
PI STA = 53'SW'+84.87
Y = 520088.261
X = 813766.786
DELTA = 0°57'41"
D = 4°48'24"
T = 10.00'
L = 20.00'
R = 1192.00'
PC STA = 53'SW'+74.87
Y = 520098.094
X = 813764.963
PT STA = 53'SW'+94.87
Y = 520078.399
X = 813768.444
BK = S10°30'21.1"E
AH = S09°32'40.2"E

SW-5
PI STA = 50'SW'+16.10
Y = 520260.724
X = 813542.599
DELTA = 4°17'21"
D = 13°19'29"
T = 16.10'
L = 32.19'
R = 430.00'
PC STA = 50'SW'+00.00
Y = 520260.344
X = 813526.501
PT STA = 50'SW'+32.19
Y = 520262.307
X = 813558.624
BK = N88°38'56.2"E
AH = N84°21'35.0"E

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	ALIGNMENT DETAILS	SHEET 149	E

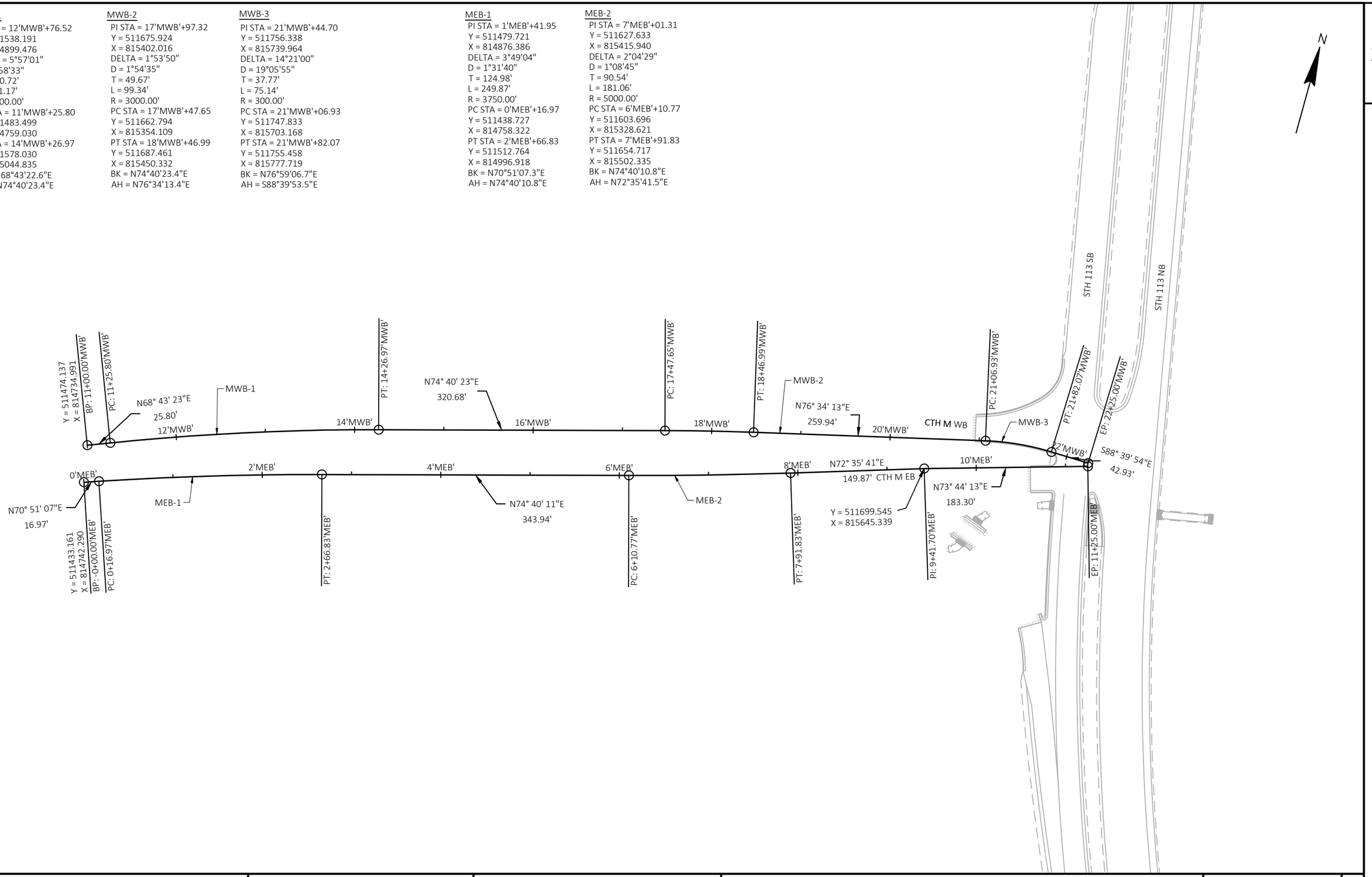
MWB-1
PI STA = 12'MWB'+76.52
Y = 511538.191
X = 814899.476
DELTA = 5°57'01"
D = 1°58'33"
T = 150.72'
L = 301.17'
R = 2900.00'
PC STA = 11'MWB'+25.80
Y = 511483.499
X = 814759.030
PT STA = 14'MWB'+26.97
Y = 511578.030
X = 815044.835
BK = N68°43'22.6"E
AH = N74°40'23.4"E

MWB-2
PI STA = 17'MWB'+97.32
Y = 511675.924
X = 815402.016
DELTA = 1°53'50"
D = 1°54'35"
T = 49.67'
L = 99.34'
R = 3000.00'
PC STA = 17'MWB'+47.65
Y = 511662.794
X = 815354.109
PT STA = 18'MWB'+46.99
Y = 511687.461
X = 815450.332
BK = N74°40'23.4"E
AH = N76°34'13.4"E

MWB-3
PI STA = 21'MWB'+44.70
Y = 511756.338
X = 815739.964
DELTA = 14°21'00"
D = 19°05'55"
T = 37.77'
L = 75.14'
R = 300.00'
PC STA = 21'MWB'+06.93
Y = 511747.833
X = 815703.168
PT STA = 21'MWB'+82.07
Y = 511755.458
X = 815777.719
BK = N76°59'06.7"E
AH = S88°39'53.5"E

MEB-1
PI STA = 1'MEB'+41.95
Y = 511479.721
X = 814876.386
DELTA = 3°49'04"
D = 1°31'40"
T = 124.98'
L = 249.87'
R = 3750.00'
PC STA = 0'MEB'+16.97
Y = 511438.727
X = 814758.322
PT STA = 2'MEB'+66.83
Y = 511512.764
X = 814996.918
BK = N70°51'07.3"E
AH = N74°40'10.8"E

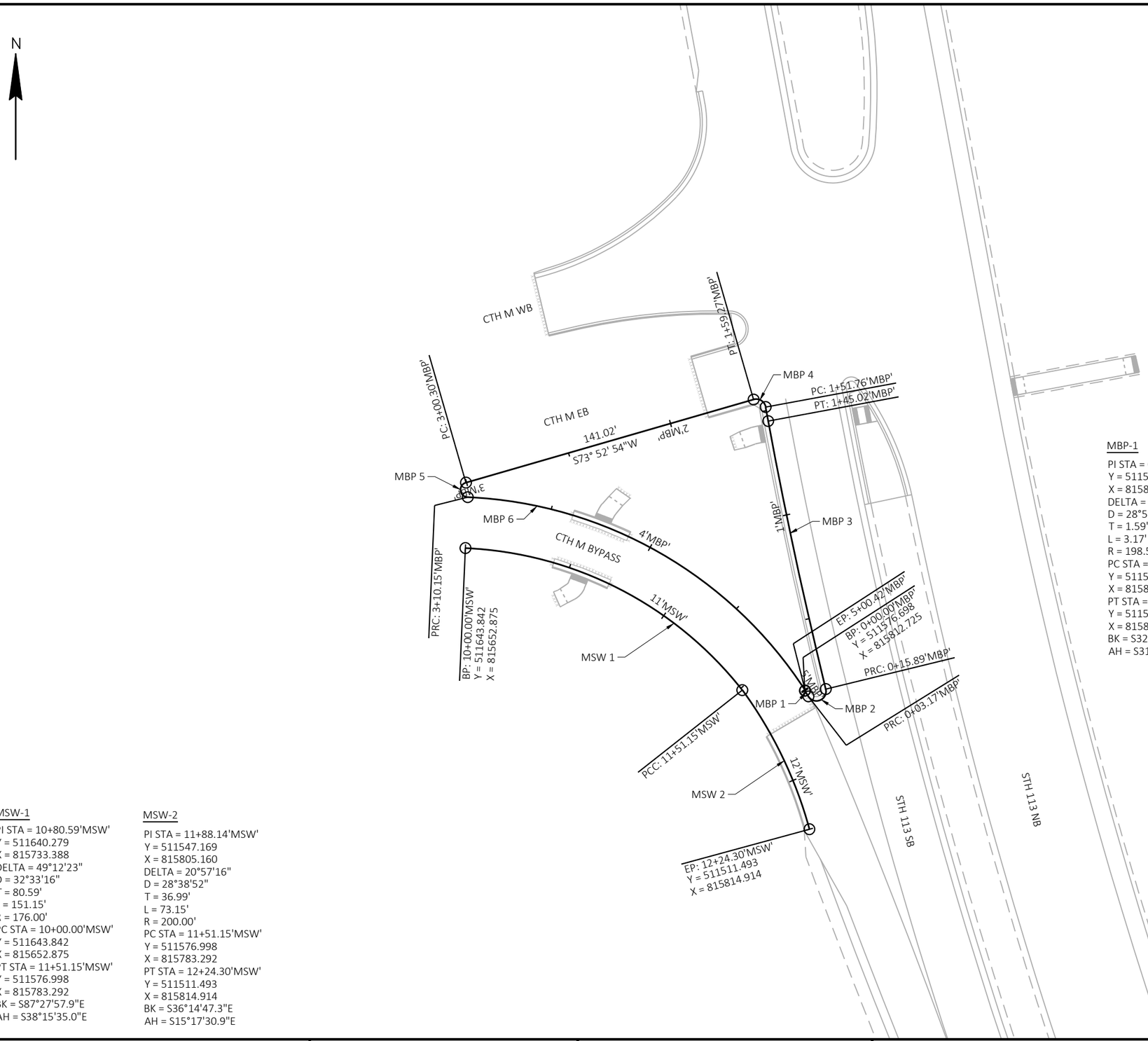
MEB-2
PI STA = 7'MEB'+01.31
Y = 511627.633
X = 815415.940
DELTA = 2°04'29"
D = 1°08'45"
T = 90.54'
L = 181.06'
R = 5000.00'
PC STA = 6'MEB'+10.77
Y = 511603.696
X = 815328.621
PT STA = 7'MEB'+91.83
Y = 511654.717
X = 815502.335
BK = N74°40'10.8"E
AH = N72°35'41.5"E



PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	ALIGNMENT DETAILS	SHEET 150	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\027201-AD.DWG
LAYOUT NAME - 027211-ad
PLOT DATE : 10/27/2022 3:29 PM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2



MBP-1

PI STA = 0'MBP'+01.59
Y = 511575.374
X = 815813.599
DELTA = 0°54'57"
D = 28°51'43"
T = 1.59'
L = 3.17'
R = 198.52'
PC STA = 0'MBP'+00.00
Y = 511576.709
X = 815812.742
PT STA = 0'MBP'+03.17
Y = 511574.025
X = 815814.435
BK = S32°42'55.7"E
AH = S31°47'58.7"E

MBP-2

PI STA = 0'MBP'+31.49
Y = 511549.957
X = 815829.358
DELTA = 161°56'30"
D = 1273°14'22"
T = 28.32'
L = 12.72'
R = 4.50'
PC STA = 0'MBP'+03.17
Y = 511574.025
X = 815814.435
PT STA = 0'MBP'+15.89
Y = 511577.465
X = 815822.631
BK = S31°47'58.7"E
AH = N13°44'28.6"W

MBP-3

PI STA = 0'MBP'+80.47
Y = 511640.199
X = 815807.291
DELTA = 3°12'50"
D = 2°29'20"
T = 64.58'
L = 129.13'
R = 2302.00'
PC STA = 0'MBP'+15.89
Y = 511577.465
X = 815822.631
PT STA = 1'MBP'+45.02
Y = 511703.694
X = 815795.491
BK = N13°44'28.6"W
AH = N10°31'38.3"W

MBP-4

PI STA = 1'MBP'+56.73
Y = 511715.208
X = 815793.375
DELTA = 95°42'09"
D = 1273°14'22"
T = 4.97'
L = 7.52'
R = 4.50'
PC STA = 1'MBP'+51.76
Y = 511710.318
X = 815794.273
PT STA = 1'MBP'+59.27
Y = 511713.828
X = 815788.598
BK = N10°24'57.1"W
AH = S73°52'54.1"W

MBP-5

PI STA = 3'MBP'+21.61
Y = 511668.760
X = 815632.645
DELTA = 161°20'52"
D = 1637°01'20"
T = 21.31'
L = 9.86'
R = 3.50'
PC STA = 3'MBP'+00.30
Y = 511674.677
X = 815653.120
PT STA = 3'MBP'+10.15
Y = 511667.818
X = 815653.936
BK = S73°52'54.1"W
AH = S87°27'57.9"E

MBP-6

PI STA = 4'MBP'+13.18
Y = 511663.263
X = 815756.862
DELTA = 54°30'31"
D = 28°38'52"
T = 103.03'
L = 190.27'
R = 200.00'
PC STA = 3'MBP'+10.15
Y = 511667.818
X = 815653.936
PT STA = 5'MBP'+00.42
Y = 511576.817
X = 815812.909
BK = S87°27'57.9"E
AH = S32°57'26.9"E

MSW-1

PI STA = 10+80.59'MSW'
Y = 511640.279
X = 815733.388
DELTA = 49°12'23"
D = 32°33'16"
T = 80.59'
L = 151.15'
R = 176.00'
PC STA = 10+00.00'MSW'
Y = 511643.842
X = 815652.875
PT STA = 11+51.15'MSW'
Y = 511576.998
X = 815783.292
BK = S87°27'57.9"E
AH = S38°15'35.0"E

MSW-2

PI STA = 11+88.14'MSW'
Y = 511547.169
X = 815805.160
DELTA = 20°57'16"
D = 28°38'52"
T = 36.99'
L = 73.15'
R = 200.00'
PC STA = 11+51.15'MSW'
Y = 511576.998
X = 815783.292
PT STA = 12+24.30'MSW'
Y = 511511.493
X = 815814.914
BK = S36°14'47.3"E
AH = S15°17'30.9"E

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	ALIGNMENT DETAILS	SHEET 151	E

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NB STH 113 'NB' SUPERELEVATION TABLE					
TRANSITION EVENT POINTS		RATE			
		LEFT OF REFERENCE LINE		RIGHT OF REFERENCE LINE	
LOCATION	STATION	LEFT SHOULDER	LEFT LANE	RIGHT SHOULDER	RIGHT LANE
Begin Alignment	7+08.80'	-4.00%	-2.00%	-4.00%	-2.00%
Begin - RC	10+00.00'	-4.00%	2.00%	-4.00%	-2.00%
End Normal Shoulder	47+18.50'	-4.00%	2.00%	-4.00%	-2.00%
Left Shoulder Transition	48+08.50'	-2.00%	2.00%	-4.00%	-2.00%
Right Shoulder Transition	48+88.50'	0.00%	2.00%	-4.00%	-2.00%
Begin Bridge SE	49+68.50'	1.20%	1.20%	-1.20%	-1.20%
End Bridge	50+58.80'	1.20%	1.20%	-1.20%	-1.20%
Reverse Crown	51+32.21'	2.00%	2.00%	-4.00%	-2.00%
Low Shoulder Match	52+12.21'	4.00%	4.00%	-4.00%	-4.00%
Begin Full Super	52+56.21'	5.10%	5.10%	-5.10%	-5.10%
End Full Super	62+30.18'	5.10%	5.10%	-5.10%	-5.10%
Low Shoulder Match	62+74.18'	4.00%	4.00%	-4.00%	-4.00%
Reverse Crown	63+54.18'	2.00%	2.00%	-4.00%	-2.00%
Level Crown	64+34.18'	0.00%	0.00%	-4.00%	-2.00%
Begin Normal Crown	65+14.18'	-2.00%	-2.00%	-4.00%	-2.00%
Begin Normal Shoulder	65+94.18'	-4.00%	-2.00%	-4.00%	-2.00%
End Normal Shoulder	94+34.97'	-4.00%	-2.00%	-4.00%	-2.00%
End Normal Crown	95+14.97'	-4.00%	-2.00%	-2.00%	-2.00%
Level Crown	95+94.97'	-4.00%	-2.00%	0.00%	0.00%
Reverse Crown	96+74.97'	-4.00%	-2.00%	2.00%	2.00%
Begin Full Super	96+98.97'	-4.00%	-2.60%	2.60%	2.60%
End Full Super	102+32.47'	-4.00%	-2.60%	2.60%	2.60%
Begin Full Super	103+13.79'	-4.00%	-3.50%	3.50%	3.50%
End Full Super	104+81.62'	-4.00%	-3.50%	3.50%	3.50%
End Alignment	105+28.29'	-4.00%	-2.30%	2.30%	2.30%

SB STH 113 'SB' SUPERELEVATION TABLE					
TRANSITION EVENT POINTS		RATE			
		LEFT OF REFERENCE LINE		RIGHT OF REFERENCE LINE	
LOCATION	STATION	LEFT SHOULDER	LEFT LANE	RIGHT SHOULDER	RIGHT LANE
Begin Alignment	7+08.80'	-4.00%	-2.00%	-4.00%	-2.00%
End Normal Shoulder	49+23.68'	-4.00%	-2.00%	-4.00%	-2.00%
End Normal Crown	50+03.68'	-2.00%	-2.00%	-4.00%	-2.00%
Level Crown	50+83.68'	0.00%	0.00%	-4.00%	-2.00%
Reverse Crown	51+63.68'	2.00%	2.00%	-4.00%	-2.00%
Low Shoulder Match	52+43.68'	2.00%	2.00%	-4.00%	-2.00%
Begin Full Super	52+87.68'	4.00%	4.00%	-4.00%	-4.00%
End Full Super	62+59.70'	4.00%	4.00%	-4.00%	-4.00%
Low Shoulder Match	63+03.70'	2.00%	2.00%	-4.00%	-2.00%
Reverse Crown	63+20.00'	2.00%	2.00%	-4.00%	-2.00%
Level Crown	63+70.00'	0.00%	0.00%	-4.00%	-2.00%
Begin Normal Crown	64+20.00'	-2.00%	-2.00%	-4.00%	-2.00%
Begin Normal Shoulder	64+70.00'	-4.00%	-2.00%	-4.00%	-2.00%
End Normal Shoulder	94+54.57'	-4.00%	-2.00%	-4.00%	-2.00%
End Normal Crown	95+34.57'	-4.00%	-2.00%	-2.00%	-2.00%
Level Crown	96+14.57'	-4.00%	-2.00%	0.00%	0.00%
Reverse Crown	96+94.57'	-4.00%	-2.00%	2.00%	2.00%
Begin Full Super	97+54.57'	-4.00%	-3.50%	3.50%	3.50%
End SB Corridor	97+78.40'	-4.00%	-3.50%	3.50%	3.50%
See STH 113 'NB' Superelevation Table					

2

NB STH 113 'RNB' SUPERELEVATION TABLE					
TRANSITION EVENT POINTS		RATE			
		LEFT OF REFERENCE LINE		RIGHT OF REFERENCE LINE	
LOCATION	STATION	LEFT SHOULDER	LEFT LANE	RIGHT SHOULDER	RIGHT LANE
Begin Alignment	400+00.00'	3.70%	3.70%	-4.00%	-3.70%
End Full Super	400+77.69'	3.70%	3.70%	-4.00%	-3.70%
Reverse Crown	401+23.18'	2.00%	2.00%	-4.00%	-2.00%
Level Crown	401+76.69'	0.00%	0.00%	-4.00%	-2.00%
Begin Normal Crown	402+30.20'	-2.00%	-2.00%	-4.00%	-2.00%
Begin Normal Shoulder	402+30.20'	-4.00%	-2.00%	-4.00%	-2.00%
End Alignment	439+10.00'	-4.00%	-2.00%	-4.00%	-2.00%

TWO-LANE STH 113 'TWL' SUPERELEVATION TABLE					
TRANSITION EVENT POINTS		RATE			
		LEFT OF REFERENCE LINE		RIGHT OF REFERENCE LINE	
LOCATION	STATION	LEFT SHOULDER	LEFT LANE	RIGHT SHOULDER	RIGHT LANE
Begin Alignment	105+49.22'	-4.00%	-2.30%	2.30%	2.30%
RC	105+62.55'	-4.00%	-2.00%	2.00%	2.00%
Level Crown	106+42.55'	-4.00%	-2.00%	0.00%	0.00%
Begin Normal Crown	107+22.55'	-4.00%	-2.00%	-2.00%	-2.00%
Begin Normal Shoulder	108+02.55'	-4.00%	-2.00%	-4.00%	-2.00%
End Normal Shoulder	126+42.89'	-4.00%	-2.00%	-4.00%	-2.00%
End Normal Crown	126+96.40'	-2.00%	-2.00%	-4.00%	-2.00%
Level Crown	127+49.91'	0.00%	0.00%	-4.00%	-2.00%
Reverse Crown	128+03.42'	2.00%	2.00%	-4.00%	-2.00%
Begin Full Super	128+48.91'	3.70%	3.70%	-4.00%	-3.70%
End Corridor	142+00.00'	3.70%	3.70%	-4.00%	-3.70%
See NB STH 113 'RNB' Superelevation Table					
Begin Corridor	162+00.00'	-4.00%	-2.00%	-4.00%	-2.00%
End Alignment	190+83.04'	-4.00%	-2.00%	-4.00%	-2.00%

5420-02-72

Line	Item	Item Description	Unit	Total	Qty
0002	203.0100	Removing Small Pipe Culverts	EACH	4.000	4.000
0004	203.0220	Removing Structure (structure) 01. B-13-233	EACH	1.000	1.000
0006	204.0100	Removing Concrete Pavement	SY	100.000	100.000
0008	204.0150	Removing Curb & Gutter	LF	1,930.000	1,930.000
0010	204.0165	Removing Guardrail	LF	1,140.000	1,140.000
0012	204.0195	Removing Concrete Bases	EACH	6.000	6.000
0014	204.0210	Removing Manholes	EACH	2.000	2.000
0016	204.0220	Removing Inlets	EACH	2.000	2.000
0018	204.0245	Removing Storm Sewer (size) 01. 18-Inch	LF	782.000	782.000
0020	204.9060.S	Removing (item description) 01. Traffic Signals (STH 113 & CTH M)	EACH	1.000	1.000
0022	204.9060.S	Removing (item description) 02. Traffic Signals (STH 113 & River Road)	EACH	1.000	1.000
0024	205.0100	Excavation Common	CY	145,700.000	145,700.000
0026	213.0100	Finishing Roadway (project) 01. 5420-02-72	EACH	1.000	1.000
0028	305.0110	Base Aggregate Dense 3/4-Inch	TON	7,485.000	7,485.000
0030	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	118,600.000	118,600.000
0032	312.0110	Select Crushed Material	TON	98,100.000	98,100.000
0034	371.2000.S	QMP Base Aggregate Dense 1 1/4-Inch Compaction	EACH	104.000	104.000
0036	405.0100	Coloring Concrete WisDOT Red	CY	170.000	170.000
0038	415.0080	Concrete Pavement 8-Inch	SY	66.000	66.000
0040	415.0410	Concrete Pavement Approach Slab	SY	80.000	80.000
0042	416.0160	Concrete Driveway 6-Inch	SY	48.000	48.000
0044	416.0512	Concrete Truck Apron 12-Inch	SY	505.000	505.000
0046	416.0610	Drilled Tie Bars	EACH	48.000	48.000
0048	416.1010	Concrete Surface Drains	CY	10.000	10.000
0050	455.0605	Tack Coat	GAL	6,320.000	6,320.000
0052	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	2.000	2.000
0054	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	2.000	2.000
0056	460.2000	Incentive Density HMA Pavement	DOL	2,690.000	2,690.000
0058	460.2005	Incentive Density PWL HMA Pavement	DOL	22,500.000	22,500.000
0060	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	9,710.000	9,710.000
0062	460.2010	Incentive Air Voids HMA Pavement	DOL	38,260.000	38,260.000
0064	460.6223	HMA Pavement 3 MT 58-28 S	TON	24,830.000	24,830.000
0066	460.6224	HMA Pavement 4 MT 58-28 S	TON	15,900.000	15,900.000
0068	460.6424	HMA Pavement 4 MT 58-28 H	TON	1,750.000	1,750.000
0070	465.0105	Asphaltic Surface	TON	27.000	27.000
0072	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	67.000	67.000
0074	465.0125	Asphaltic Surface Temporary	TON	52.000	52.000
0076	465.0310	Asphaltic Curb	LF	117.000	117.000
0078	465.0315	Asphaltic Flumes	SY	92.000	92.000
0080	465.0400	Asphaltic Shoulder Rumble Strips	LF	29,300.000	29,300.000
0082	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	14,410.000	14,410.000
0084	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	5,370.000	5,370.000
0086	502.0100	Concrete Masonry Bridges	CY	24.000	24.000
0088	502.3210	Pigmented Surface Sealer	SY	121.000	121.000
0090	502.4205	Adhesive Anchors No. 5 Bar	EACH	720.000	720.000
0092	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	3,170.000	3,170.000
0094	509.9050.S	Cleaning Parapets	LF	224.000	224.000
0096	520.1042	Apron Endwalls for Culvert Pipe 42-Inch	EACH	4.000	4.000
0098	520.3142	Culvert Pipe Class III 42-Inch	LF	234.000	234.000

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Line	Item	Item Description	Unit	Total	Qty
0100	520.8000	Concrete Collars for Pipe	EACH	1.000	1.000
0102	521.1515	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 15-Inch 6 to 1	EACH	2.000	2.000
0104	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	3.000	3.000
0106	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	1.000	1.000
0108	601.0405	Concrete Curb & Gutter 18-Inch Type A	LF	245.000	245.000
0110	601.0407	Concrete Curb & Gutter 18-Inch Type D	LF	108.000	108.000
0112	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	2,709.000	2,709.000
0114	601.0553	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D	LF	5,926.000	5,926.000
0116	601.0580	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type R	LF	333.000	333.000
0118	601.0588	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT	LF	162.000	162.000
0120	601.0600	Concrete Curb Pedestrian	LF	168.000	168.000
0122	602.0405	Concrete Sidewalk 4-Inch	SF	19,605.000	19,605.000
0124	602.0410	Concrete Sidewalk 5-Inch	SF	3,860.000	3,860.000
0126	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	288.000	288.000
0128	606.0200	Riprap Medium	CY	23.000	23.000
0130	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	823.000	823.000
0132	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	546.000	546.000
0134	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	294.000	294.000
0136	608.3015	Storm Sewer Pipe Class III-A 15-Inch	LF	15.000	15.000
0138	611.0530	Manhole Covers Type J	EACH	2.000	2.000
0140	611.0624	Inlet Covers Type H	EACH	4.000	4.000
0142	611.0627	Inlet Covers Type HM	EACH	1.000	1.000
0144	611.0636	Inlet Covers Type HM-S	EACH	6.000	6.000
0146	611.0639	Inlet Covers Type H-S	EACH	1.000	1.000
0148	611.0645	Inlet Covers Type MS-A	EACH	2.000	2.000
0150	611.0652	Inlet Covers Type T	EACH	2.000	2.000
0152	611.2004	Manholes 4-FT Diameter	EACH	2.000	2.000
0154	611.2005	Manholes 5-FT Diameter	EACH	1.000	1.000
0156	611.3004	Inlets 4-FT Diameter	EACH	3.000	3.000
0158	611.3225	Inlets 2x2.5-FT	EACH	2.000	2.000
0160	611.3230	Inlets 2x3-FT	EACH	8.000	8.000
0162	611.3901	Inlets Median 1 Grate	EACH	2.000	2.000
0164	611.8110	Adjusting Manhole Covers	EACH	2.000	2.000
0166	611.9800.S	Pipe Grates	EACH	4.000	4.000
0168	612.0106	Pipe Underdrain 6-Inch	LF	10,960.000	10,960.000
0170	612.0206	Pipe Underdrain Unperforated 6-Inch	LF	700.000	700.000
0172	612.0806	Apron Endwalls for Underdrain Reinforced Concrete 6-Inch	EACH	14.000	14.000
0174	614.2300	MGS Guardrail 3	LF	650.000	650.000
0176	614.2500	MGS Thrie Beam Transition	LF	316.000	316.000
0178	614.2610	MGS Guardrail Terminal EAT	EACH	8.000	8.000
0180	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5420-02-72	EACH	1.000	1.000
0182	619.1000	Mobilization	EACH	1.000	1.000
0184	620.0100	Concrete Corrugated Median	SF	870.000	870.000
0186	620.0300	Concrete Median Sloped Nose	SF	1,109.000	1,109.000
0188	624.0100	Water	MGAL	3,020.000	3,020.000
0190	625.0500	Salvaged Topsoil	SY	62,500.000	62,500.000
0192	627.0200	Mulching	SY	56,000.000	56,000.000
0194	628.1504	Silt Fence	LF	2,400.000	2,400.000
0196	628.1520	Silt Fence Maintenance	LF	2,400.000	2,400.000

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Line	Item	Item Description	Unit	Total	Qty
0198	628.1905	Mobilizations Erosion Control	EACH	9.000	9.000
0200	628.1910	Mobilizations Emergency Erosion Control	EACH	6.000	6.000
0202	628.2004	Erosion Mat Class I Type B	SY	6,080.000	6,080.000
0204	628.2023	Erosion Mat Class II Type B	SY	475.000	475.000
0206	628.7005	Inlet Protection Type A	EACH	6.000	6.000
0208	628.7015	Inlet Protection Type C	EACH	17.000	17.000
0210	628.7504	Temporary Ditch Checks	LF	220.000	220.000
0212	628.7515.S	Stone Ditch Checks	CY	200.000	200.000
0214	628.7555	Culvert Pipe Checks	EACH	24.000	24.000
0216	628.7560	Tracking Pads	EACH	6.000	6.000
0218	629.0210	Fertilizer Type B	CWT	50.000	50.000
0220	630.0130	Seeding Mixture No. 30	LB	1,120.000	1,120.000
0222	630.0140	Seeding Mixture No. 40	LB	10.000	10.000
0224	630.0200	Seeding Temporary	LB	840.000	840.000
0226	630.0500	Seed Water	MGAL	350.000	350.000
0228	633.5200	Markers Culvert End	EACH	10.000	10.000
0230	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	19.000	19.000
0232	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	20.000	20.000
0234	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	4.000	4.000
0236	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	12.000	12.000
0238	637.2210	Signs Type II Reflective H	SF	377.170	377.170
0240	637.2230	Signs Type II Reflective F	SF	54.250	54.250
0242	638.2102	Moving Signs Type II	EACH	47.000	47.000
0244	638.2602	Removing Signs Type II	EACH	5.000	5.000
0246	638.3000	Removing Small Sign Supports	EACH	5.000	5.000
0248	638.4000	Moving Small Sign Supports	EACH	51.000	51.000
0250	642.5201	Field Office Type C	EACH	1.000	1.000
0252	643.0300	Traffic Control Drums	DAY	20,010.000	20,010.000
0254	643.0410	Traffic Control Barricades Type II	DAY	770.000	770.000
0256	643.0420	Traffic Control Barricades Type III	DAY	10,158.000	10,158.000
0258	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	408.000	408.000
0260	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	408.000	408.000
0262	643.0705	Traffic Control Warning Lights Type A	DAY	12,978.000	12,978.000
0264	643.0715	Traffic Control Warning Lights Type C	DAY	8,225.000	8,225.000
0266	643.0800	Traffic Control Arrow Boards	DAY	281.000	281.000
0268	643.0900	Traffic Control Signs	DAY	59,841.000	59,841.000
0270	643.0910	Traffic Control Covering Signs Type I	EACH	3.000	3.000
0272	643.0920	Traffic Control Covering Signs Type II	EACH	35.000	35.000
0274	643.1050	Traffic Control Signs PCMS	DAY	42.000	42.000
0276	643.3105	Temporary Marking Line Paint 4-Inch	LF	19,810.000	19,810.000
0278	643.3150	Temporary Marking Line Removable Tape 4-Inch	LF	27,856.000	27,856.000
0280	643.3250	Temporary Marking Line Removable Tape 8-Inch	LF	155.000	155.000
0282	643.3550	Temporary Marking Arrow Removable Tape	EACH	2.000	2.000
0284	643.3805	Temporary Marking Stop Line Paint 18-Inch	LF	63.000	63.000
0286	643.3850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	168.000	168.000
0288	643.5000	Traffic Control	EACH	1.000	1.000
0290	645.0120	Geotextile Type HR	SY	45.000	45.000
0292	645.0130	Geotextile Type R	SY	400.000	400.000
0294	645.0220	Geogrid Type SR	SY	147,800.000	147,800.000

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Line	Item	Item Description	Unit	Total	Qty
0296	646.1020	Marking Line Epoxy 4-Inch	LF	57,522.000	57,522.000
0298	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	21,635.000	21,635.000
0300	646.3020	Marking Line Epoxy 8-Inch	LF	311.000	311.000
0302	646.3040	Marking Line Grooved Wet Ref Epoxy 8-Inch	LF	4,995.000	4,995.000
0304	646.5020	Marking Arrow Epoxy	EACH	19.000	19.000
0306	646.5120	Marking Word Epoxy	EACH	9.000	9.000
0308	646.5220	Marking Symbol Epoxy	EACH	1.000	1.000
0310	646.5520	Marking Outfall Epoxy	EACH	14.000	14.000
0312	646.6120	Marking Stop Line Epoxy 18-Inch	LF	327.000	327.000
0314	646.6320	Marking Dotted Extension Epoxy 18-Inch	LF	67.000	67.000
0316	646.7120	Marking Diagonal Epoxy 12-Inch	LF	1,123.000	1,123.000
0318	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	252.000	252.000
0320	646.8020	Marking Corrugated Median Epoxy	SF	376.000	376.000
0322	646.8120	Marking Curb Epoxy	LF	444.000	444.000
0324	646.8220	Marking Island Nose Epoxy	EACH	15.000	15.000
0326	646.9000	Marking Removal Line 4-Inch	LF	7,615.000	7,615.000
0328	646.9200	Marking Removal Line Wide	LF	250.000	250.000
0330	646.9300	Marking Removal Special Marking	EACH	4.000	4.000
0332	650.4000	Construction Staking Storm Sewer	EACH	22.000	22.000
0334	650.4500	Construction Staking Subgrade	LF	49,662.000	49,662.000
0336	650.5000	Construction Staking Base	LF	49,662.000	49,662.000
0338	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	4,961.000	4,961.000
0340	650.6000	Construction Staking Pipe Culverts	EACH	3.000	3.000
0342	650.8501	Construction Staking Electrical Installations (project) 01. 5420-02-72	EACH	1.000	1.000
0344	650.9000	Construction Staking Curb Ramps	EACH	18.000	18.000
0346	650.9500	Construction Staking Sidewalk (project) 01. 5420-02-72	EACH	1.000	1.000
0348	650.9911	Construction Staking Supplemental Control (project) 01. 5420-02-72	EACH	1.000	1.000
0350	650.9920	Construction Staking Slope Stakes	LF	3,224.000	3,224.000
0352	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	3,722.000	3,722.000
0354	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	928.000	928.000
0356	652.0325	Conduit Rigid Nonmetallic Schedule 80 2-Inch	LF	391.000	391.000
0358	652.0800	Conduit Loop Detector	LF	692.000	692.000
0360	653.0164	Pull Boxes Non-Conductive 24x42-Inch	EACH	44.000	44.000
0362	653.0900	Adjusting Pull Boxes	EACH	11.000	11.000
0364	653.0905	Removing Pull Boxes	EACH	6.000	6.000
0366	654.0101	Concrete Bases Type 1	EACH	1.000	1.000
0368	654.0102	Concrete Bases Type 2	EACH	3.000	3.000
0370	654.0105	Concrete Bases Type 5	EACH	14.000	14.000
0372	654.0120	Concrete Bases Type 10-Special	EACH	2.000	2.000
0374	654.0230	Concrete Control Cabinet Bases Type L30	EACH	1.000	1.000
0376	655.0210	Cable Traffic Signal 3-14 AWG	LF	15.000	15.000
0378	655.0230	Cable Traffic Signal 5-14 AWG	LF	464.000	464.000
0380	655.0240	Cable Traffic Signal 7-14 AWG	LF	923.000	923.000
0382	655.0250	Cable Traffic Signal 9-14 AWG	LF	1,140.000	1,140.000
0384	655.0260	Cable Traffic Signal 12-14 AWG	LF	712.000	712.000
0386	655.0305	Cable Type UF 2-12 AWG Grounded	LF	1,050.000	1,050.000
0388	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	1,610.000	1,610.000
0390	655.0610	Electrical Wire Lighting 12 AWG	LF	16,898.000	16,898.000
0392	655.0700	Loop Detector Lead In Cable	LF	6,456.000	6,456.000

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Line	Item	Item Description	Unit	Total	Qty
0394	655.0800	Loop Detector Wire	LF	2,848.000	2,848.000
0396	656.0201	Electrical Service Meter Breaker Pedestal (location) 01. Station 10+56'RAB', 53.80' RT	EACH	1.000	1.000
0398	657.0100	Pedestal Bases	EACH	1.000	1.000
0400	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	17.000	17.000
0402	657.0305	Poles Type 2	EACH	2.000	2.000
0404	657.0315	Poles Type 4	EACH	1.000	1.000
0406	657.0322	Poles Type 5-Aluminum	EACH	14.000	14.000
0408	657.0352	Poles Type 10-Special	EACH	2.000	2.000
0410	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	1.000	1.000
0412	657.0546	Monotube Arms 45-FT-Special	EACH	2.000	2.000
0414	657.0585	Trombone Arms 15-FT	EACH	2.000	2.000
0416	657.0709	Luminaire Arms Truss Type 4-Inch Clamp 12-FT	EACH	1.000	1.000
0418	657.0715	Luminaire Arms Truss Type 4 1/2-Inch Clamp 15-FT	EACH	14.000	14.000
0420	657.0815	Luminaire Arms Steel 15-FT	EACH	2.000	2.000
0422	657.0820	Luminaire Arms Steel Type 10 Pole Clamp 15-FT	EACH	2.000	2.000
0424	658.0173	Traffic Signal Face 3S 12-Inch	EACH	8.000	8.000
0426	658.0174	Traffic Signal Face 4S 12-Inch	EACH	4.000	4.000
0428	658.0416	Pedestrian Signal Face 16-Inch	EACH	1.000	1.000
0430	658.0500	Pedestrian Push Buttons	EACH	2.000	2.000
0432	658.5070	Signal Mounting Hardware (location) 01. STH 113 & CTH M	EACH	1.000	1.000
0434	658.5070	Signal Mounting Hardware (location) 02. STH 113 & River Road	EACH	1.000	1.000
0436	659.1120	Luminaires Utility LED B	EACH	14.000	14.000
0438	659.1125	Luminaires Utility LED C	EACH	3.000	3.000
0440	659.2130	Lighting Control Cabinets 120/240 30-Inch	EACH	1.000	1.000
0442	659.5000.S	Lamp, Ballast, LED, Switch Disposal by Contractor	EACH	11.000	11.000
0444	661.0201	Temporary Traffic Signals for Intersections (location) 01. STH 113 & CTH M	EACH	1.000	1.000
0446	690.0150	Sawing Asphalt	LF	1,910.000	1,910.000
0448	690.0250	Sawing Concrete	LF	80.000	80.000
0450	740.0440	Incentive IRI Ride	DOL	18,718.000	18,718.000
0452	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	1,500.000	1,500.000
0454	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,050.000	1,050.000
0456	SPV.0060	Special 01. Retroreflective Backplate 3S	EACH	4.000	4.000
0458	SPV.0060	Special 02. Retroreflective Backplate 4S	EACH	4.000	4.000
0460	SPV.0060	Special 03. Adjusting Concrete Bases	EACH	6.000	6.000
0462	SPV.0060	Special 04. Construction Staking Roundabout	EACH	1.000	1.000
0464	SPV.0060	Special 05. Landmark Reference Monuments Special	EACH	1.000	1.000
0466	SPV.0060	Special 06. Verify Landmark Reference Monuments	EACH	2.000	2.000
0468	SPV.0090	Special 01. Concrete Curb & Gutter 24-Inch Type D Special	LF	127.000	127.000

REMOVING CONCRETE

CATEGORY	STATION	TO	STATION	LOCATION	204.0100 REMOVING CONCRETE PAVEMENT SY	204.0150 REMOVING CURB & GUTTER LF
STAGE 1						
0010	7+59'SB'	-	8+59'SB'	RT	-	147
0010	22+47'NB'	-	23+53'NB'	RT	-	140
0010	81+61'NB'	-	83+58'NB'	RT	-	163
0010	94+95'NB'	-	94+99'NB'	LT	95	-
STAGE 1 TOTALS					95	450
STAGE 2						
0010	49+54'SB'	-	49+60'SB'	LT/RT	5	-
0010	61+39'SB'	-	64+86'SB'	LT	-	550
0010	82+31'SB'	-	83+79'SB'	LT	-	165
STAGE 2 TOTALS					5	715
CLOSURE						
0010	96+40'SB'	-	97+77'SB'	LT	-	155
CLOSURE					0	155
				TOTAL 0010	100	1,320
ROUNDABOUT						
0030	202+00 'AEB'	-	202+04 'AEB'		-	610
				TOTAL 0030	0	610
				PROJECT TOTAL	100	1,930

REMOVING GUARDRAIL

CATEGORY	STATION	TO	STATION	LOCATION	204.0165 REMOVING GUARDRAIL LF
STAGE 1		-			
0010	47+50"NB'	-	52+76'NB'	LT &RT	554
STAGE 2		-			
0010	47+50"NB'	-	52+76'NB'	LT &RT	586
				TOTAL 0010	1,140

REMOVING STORM SEWER

CATEGORY	STATION	TO	STATION	LOCATION	203.0100 REMOVING SMALL PIPE CULVERTS EACH	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH	204.0245.01 REMOVING STORM SEWER (SIZE) (01. 18-INCH) LF
0010	77+45'NB'	-	85+00'NB'	LT	-	2	2	782
				TOTAL 0010	0	2	2	782
ROUNDABOUT								
0030	413+48'RNB'	-	413+87'RNB'	LT/RT	2	-	-	-
0030	301+80'BWB'	-	302+06'BWB'	LT	1	-	-	-
0030	302+92'BWB'	-	303+22'BWB'	LT	1	-	-	-
				TOTAL 0030	4	0	0	0
				PROJECT TOTAL	4	2	2	782

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DIVISION	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1) CUT (2)	205.0100 COMMON EXCAVATION (1) EBS EXCAVATION (3)	SALVAGED/UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR 1.25	MASS ORDINATE +/- (14)	WASTE (15)	COMMENT
STAGE 1 NB STH 113											
STAGE 1 KNUTSON TO DEBS	10+00.00/24+00.00	LT/RT	6,825	345	849	5,976	0	0	5,976	0	
STAGE 1 DEBS TO BRIDGE	24+00.00/49+00.00	LT/RT	10,207	510	1,279	8,928	324	405	8,523	0	
STAGE 1 BRIDGE TO CTH M	50+66.97/65+00.00	LT/RT	7,849	400	955	6,895	78	98	6,797	0	
STAGE 1 CTH M TO RIVER RD	65+00.00/89+00.00	LT/RT	12,333	617	2,069	10,264	110	138	10,127	0	
TEMPORARY PAVEMENT	7+59/8+62	LT	58	0	0	0	0	0	0	0	
STAGE 1 NB STH 113 CATEGORY 0010			37,272	1,872	5,151	32,063	512	640	31,423	31,423	
STAGE 2 SB STH 113											
STAGE 2 KNUTSON TO DEBS	11+89.59/24+00.00	LT/RT	4,827	241	624	4,203	0	0	4,203	0	
STAGE 2 DEBS TO BRIDGE	24+00.00/49+62.44	LT/RT	10,927	550	1,268	9,659	185	231	9,428	0	
STAGE 2 BRIDGE TO CTH M	50+67.09/65+00.00	LT/RT	7,620	385	906	6,715	548	685	6,030	0	
STAGE 2 CTH M TO RIVER RD	65+00.00/91+00.00	LT/RT	13,524	680	1,030	12,495	141	176	12,318	0	
STAGE 2 SB STH 113 CATEGORY 0010			36,898	1,856	3,827	33,071	874	1,093	31,978	31,978	
STAGE 3 SB STH 113											
KNUTSON CROSSOVER REMOVAL	7+59/8+62	RT	36	0	7	29	0	0	29	0	
CTH M CROSSOVER REMOVAL	60+20/61+27	RT	127	0	18	109	0	0	109	0	
STAGE 3 SB STH 113 CATEGORY 0010			163	0	25	138	0	0	138	138	
STH 113 CLOSURE											
NB 113 RIVER RD TO TWL	91+00.00/105+28.29	LT/RT	6,510	326	1,261	5,249	4	5	5,244	0	
SB 113 RIVER RD TO TWL	91+00.00/97+78.43	LT/RT	3,743	190	0	3,743	0	0	3,743	0	
STH 113 TWL SOUTH	105+50.00/142+00.00	LT/RT	15,684	784	2,027	13,657	5	6	13,651	0	
STH 113 TWL NORTH	162+00.00/189+42.63	LT/RT	12,097	605	1,879	10,218	2	3	10,216	0	
SB CONNECTION 113	181+76.72/189+45.10	LT/RT	2,716	136	0	2,716	3	4	2,712	0	
STH 113 CLOSURE CATEGORY 0010			40,750	2,040	5,166	35,584	14	18	35,566	35,566	
CATEGORY 0010 TOTAL			115,083	5,769	14,170	100,855	1,400	1,750	99,105	99,105	
ROUNDABOUT											
RAB NB 113 SOUTH LEG	400+00.00/409+45.00	LT/RT	5,747	287	556	5,191	114	143	5,049	0	
RAB NB 113 NORTH LEG	410+89.46/420+11.42	LT/RT	5,000	250	556	4,444	515	644	3,801	0	
RAB SB 113 SOUTH LEG	405+31.30/409+50.00	LT/RT	5,889	294	0	5,889	8	10	5,879	0	
RAB SB 113 NORTH LEG	411+00.00/415+10.53	LT/RT	1,103	55	0	1,103	673	841	262	0	
ARBORETUM EB	200+00.00/202+00.00	LT/RT	470	24	125	345	404	505	-160	0	
ARBORETUM WB	201+45/202+18.20	LT/RT	0	0	0	0	609	761	-761	0	
BONG EB	300+00.00/304+79.50	LT/RT	1,578	79	160	1,418	147	184	1,234	0	
BONG WB	300+00.00/301+77.00	LT/RT	501	25	0	501	110	138	364	0	
RAB	10+00.00/13+45.10	LT/RT	1,472	74	0	1,472	1,297	1,621	-149	0	
TEMPORARY STONE DITCH CHECK REMOVAL	300+00.00/304+79.50	RT	2,000	0	0	0	0	0	0	0	
ROUNDABOUT CATEGORY 0030			23,760	1,088	1,397	20,363	3,877	4,846	15,517	15,517	
GRAND TOTAL			138,843	6,857	15,566	121,219	5,277	6,596	114,622	114,622	
TOTAL COMMON EXC			**145,700**								

NOTES:

(1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100

(2) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.

(3) EBS VOLUME ASSUMED TO BE 5% OF CUT VOLUME. EBS EXCAVATION TO BE BACKFILLED WITH SELECT CRUSHED MATERIAL. EBS MATERIAL IS ASSUMED TO BE UNUSABLE IN FILLS.

(4) SALVAGED/UNUSABLE PAVEMENT MATERIAL INCLUDES EXISTING APSHALTIC PAVEMENT

(5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL

(13) EXPANDED FILL FACTOR = 1.25. EXPANDED FILL = (UNEXPANDED FILL)*FILL FACTOR

(14) 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.

(15) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

3

BASE AGGREGATE ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	312.0110 SELECT CRUSHED MATERIAL TON	624.0100 WATER MGAL	645.0220 GEOGRID TYPE SR SY
STAGE 1									
0010	KENNEDY RD	-	24+00'NB'	LT/RT	350	6,050	4,350	150	7,450
0010	24+00'NB'	-	49+53'NB'	LT/RT	840	10,200	7,000	260	12,050
0010	50+74'NB'	-	65+00'NB'	LT/RT	460	6,850	5,000	180	8,600
0010	65+00'NB'	-	83+57'NB'	LT/RT	440	8,800	6,750	230	11,600
STAGE 1 TOTALS					2,090	31,900	23,100	820	39,700
STAGE 2									
0010	11+90'SB'	-	24+00'SB'	LT/RT	360	4,750	3,300	120	5,650
0010	24+00'SB'	-	49+54'SB'	LT/RT	820	10,000	6,800	250	11,700
0010	50+75'SB'	-	65+22'SB'	LT/RT	530	6,900	5,150	180	9,050
0010	65+22'SB'	-	83+79'SB'	LT/RT	480	7,850	5,750	200	9,850
STAGE 2 TOTALS					2,190	29,500	21,000	750	36,250
STAGE 3									
0010	7+59'NB'	-	8+59'NB'	LT	-	10	-	1	-
STAGE 3 TOTALS					0	10	0	1	0
CLOSURE									
0010	83+79'SB'	-	105+49'SB'	LT/RT	830	15,700	11,700	400	20,200
0010	105+49'TWL'	-	141+97'TWL'	LT/RT	1,000	15,000	10,400	370	17,900
0010	162+01'TWL'	-	189+43'TWL'	LT/RT	1,000	14,200	9,800	350	16,800
CLOSURE TOTALS					2,830	44,900	31,900	1,120	54,900
0010			UNDISTRIBUTED FOR EBS FILL		-	-	10,100	-	-
				TOTAL 0010	7,110	106,310	86,100	2,691	130,850
ROUNDABOUT									
0030	400+00 'RNB'	-	409+45 'RNB'	LT/RT	180	4,400	3,500	120	5,700
0030	410+89 'RNB'	-	420+11 'RNB'	LT/RT	170	4,200	3,350	110	5,400
0030	200+00 'AEB'	-	202+05 'AEB'	LT/RT	-	870	680	24	1,500
0030	300+00 'BEB'	-	304+80 'BEB'	LT/RT	20	1,600	1,350	41	2,400
0030	10+00 'RAB'	-	13+45 'RAB'	LT/RT	-	1,200	1,150	33	1,950
0030			UNDISTRIBUTED FOR EBS FILL		-	-	1,970	-	-
				TOTAL 0030	370	12,270	12,000	328	16,950
PATH EXTENSION									
0040	63+00'NB'	-	63+00'NB'	RT	5	20	0	1	0
				TOTAL 0040	5	20	0	1	0
				PROJECT TOTALS	7,485	118,600	98,100	3,020	147,800

3

CONCRETE PAVEMENT

CATEGORY	STATION	TO	STATION	LOCATION	405.0100 COLORING CONCRETE WISDOT RED CY	415.0080 CONCRETE PAVEMENT 8-INCH SY	415.0410 CONCRETE PAVEMENT APPROACH SLAB SY	416.0160 CONCRETE DRIVEWAY 6-INCH SY	416.0512 CONCRETE TRUCK APRON 12-INCH SY	416.1010 CONCRETE SURFACE DRAINS CY
STAGE 1										
0010	49+53'NB'	-	51+17'NB'	LT&RT	-	66	80	-	-	4
STAGE 2		-								
0010	49+11'SB'	-	50+75'NB'	LT&RT	-	-	-	-	-	6
				TOTAL 0010	0	66	80	0	0	10
ROUNDABOUT										
0030	408+60 'RNB'		409+56 'RNB'	RT	20	-	-	-	60	-
0030	411+01 'RNB'	-	411+80 'RNB'	LT	20	-	-	-	60	-
0030	302+87'BEB'	-	303+41'BEB'	LT	-	-	-	48	-	-
0030	10+00 'RAB'	-	13+45 'RAB'	LT	130	-	-	-	385	-
				TOTAL 0030	170	0	0	48	505	0
				PROJECT TOTAL	170	66	80	48	505	10

DRILLED TIE BARS

CATEGORY	STATION	TO	STATION	LOCATION	416.0610 DRILLED TIE BARS EACH	REMARKS
STAGE 1						
0010	22+85'NB'	-	23+12'NB'	RT	6	DEBS RD C&G
		-				
STAGE 2						
0010	61+86'SB'	-	62+02'SB'	LT	6	CTH M RT TURN BYPASS C&G
0010	62+68'SB'	-	63+04'SB'	LT	12	CTH M RT TURN BYPASS CURB RAMP C&G
0010	63+34'SB'	-	64+16'SB'	LT	12	CTH M INTERSECTION C&G
STAGE 2 TOTALS					30	
STAGE 3						
0010	7+59'NB'	-	8+24'NB'	LT	6	KNUTSON DRIVE MEDIAN C&G
				TOTAL 0010	42	
ROUNDABOUT		-				
0030	200+00'AEB'	-		LT&RT	6	ARBORETUM DR C&G
				TOTAL 0030	6	
				PROJECT TOTAL	48	

3

ASPHALTIC ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	455.0605 TACK COAT GAL	** 460.6223 HMA PAVEMENT 3 MT 58-28 S TON	** 460.6224 HMA PAVEMENT 4 MT 58-28 S TON	460.6424 HMA PAVEMENT 4 MT 58-28 H TON	465.0105 ASPHALTIC SURFACE TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON	465.0310 ASPHALTIC CURB LF	465.0315 ASPHALTIC FLUMES SY
STAGE 1													
0010	7+59'NB'	-	24+00'NB'	LT/RT	343	1,347	954	-	-	-	15	-	-
0010	24+00'NB'	-	49+53'NB'	LT/RT	517	2,043	1,444	-	-	11	-	-	-
0010	50+74'NB'	-	65+00'NB'	LT/RT	386	1,506	1,074	-	-	-	13	-	-
0010	65+00'NB'	-	83+57'NB'	LT/RT	490	1,927	1,370	-	-	-	-	39	24
STAGE 1 TOTALS					1,736	6,823	4,842	0	0	11	28	39	24
STAGE 2													
0010	11+90'SB'	-	24+00'SB'	LT/RT	252	993	702	-	-	-	-	-	-
0010	24+00'SB'	-	49+54'SB'	LT/RT	512	2,021	1,429	-	-	-	-	-	-
0010	50+75'SB'	-	65+22'SB'	LT/RT	366	1,439	1,021	-	6	-	24	-	-
0010	65+22'SB'	-	83+79'SB'	LT/RT	415	1,632	1,157	-	-	14	-	26	14
STAGE 2 TOTALS					1,545	6,085	4,309	0	6	14	24	26	14
STAGE 3													
0010	7+59'NB'	-	8+59'NB'	LT	-	-	-	-	14	-	-	-	-
STAGE 3 TOTALS					0	0	0	0	14	0	0	0	0
CLOSURE													
0010	83+79'SB'	-	105+49'SB'	LT/RT	850	3,332	2,370	-	-	-	-	13	22
0010	105+49'TWL'	-	141+97'TWL'	LT/RT	811	3,178	2,270	-	-	-	-	-	-
0010	162+01'TWL'	-	189+43'TWL'	LT/RT	755	2,966	2,109	-	-	42	-	-	-
CLOSURE TOTALS					2,416	9,476	6,749	0	0	42	0	13	22
				TOTAL 0010	5,697	22,384	15,900	0	20	67	52	78	60
ROUNDABOUT													
0030	400+00 'RNB'	-	409+45 'RNB'	LT/RT	227	888	-	634	-	-	-	26	18
0030	410+89 'RNB'	-	420+11 'RNB'	LT/RT	216	848	-	609	-	-	-	13	14
0030	200+00 'AEB'	-	202+05 'AEB'	LT/RT	37	146	-	105	-	-	-	-	-
0030	300+00 'BEB'	-	304+80 'BEB'	LT/RT	76	301	-	214	-	-	-	-	-
0030	10+00 'RAB'	-	13+45 'RAB'	LT/RT	67	263	-	188	-	-	-	-	-
				TOTAL 0030	623	2,446	0	1,750	0	0	0	39	32
PATH EXTENSION													
0040	63+00 'NB'	-	63+00 'NB'	RT	-	-	-	-	7	-	-	-	-
				TOTAL 0040	0	0	0	0	7	0	0	0	0
				PROJECT TOTAL	6,320	24,830	15,900	1,750	27	67	52	117	92

** INCLUDES QUANTITIES FOR SAFETY EDGE

3

RUMBLE STRIPS

CATEGORY	STATION	TO	STATION	LOCATION	465.0400 ASPHALTIC SHOULDER RUMBLE STRIPS LF	465.0425 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL LF	465.0475 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL LF
STAGE 1							
0010	10+00'NB'	-	24+00'NB'	LT&RT	1,144	-	-
0010	24+00'NB'		49+29'NB'	LT&RT	4,885	-	-
0010	51+00'NB'		65+00'NB'	LT&RT	1,820	-	-
0010	65+00'NB'		91+00'NB'	LT&RT	2,335	-	-
STAGE 1 TOTALS					10,184	0	0
STAGE 2							
0010	10+00'NB'	-	24+00'NB'	LT&RT	2,236	-	-
0010	24+00'NB'		49+29'NB'	LT&RT	4,853	-	-
0010	51+00'NB'		65+00'NB'	LT&RT	2,236	-	-
0010	65+00'NB'		91+00'NB'	LT&RT	3,977	-	-
STAGE 2 TOTALS					13,302	0	0
CLOSURE							
0010	91+00NB'	-	105+29'NB'	LT&RT	2,795	-	263
0010	105+49'TWL'	-	141+97'TWL'	LT&RT	-	7,296	3,650
0010	162+01'TWL'	-	189+42'TWL'	LT&RT	3,019	4,000	1,457
CLOSURE TOTALS					5,814	11,296	5,370
				TOTAL 0010	29,300	11,296	5,370
ROUNDABOUT		-					
0030	400+00'RNB'	-	408+03'RNB'	LT&RT	-	1,574	-
0030	412+24'RNB'	-	420+11'RNB'	LT&RT	-	1,540	-
				TOTAL 0030	0	3,114	0
				PROJECT TOTALS	29,300	14,410	5,370

NOTE: USE TYPE 2 RUMBLE STRIPS WHEN SHOULDERS ARE LESS THAN 5-FEET. USE TYPE 1 RUMBLE STRIPS EVERWHERE ELSE.

3

CONCRETE CURB & GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	601.0405 CONCRETE CURB & GUTTER 18-INCH TYPE A LF	601.0407 CONCRETE CURB & GUTTER 18-INCH TYPE D LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0553 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D LF	601.0580 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R LF	601.0588 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBT LF	601.0600 CONCRETE CURB PEDESTRIAN LF	620.0300 CONCRETE MEDIAN SLOPED NOSE SF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	SPV.0090.01 SPECIAL (01. CONCRETE CURB & GUTTER 24-INCH TYPE D SPECIAL) LF
STAGE 1		-												
0010	22+47'NB'	-	23+53'NB'	RT	-	-	143	-	-	-	-	-	143	-
0010	50+69'NB'	-	51+09'NB'	LT/RT	-	-	-	-	-	81	-	-	81	-
0010	77+80'NB'	-	82+03 'NB'	LT&RT	-	-	-	1,142	-	-	-	153	1,142	-
STAGE 1 TOTALS					0	0	143	1,142	0	81	0	153	1,366	0
STAGE 2														
0010	49+201'SB'	-	49+60'SB'	LT	-		-	-	-	81	-	-	81	-
0010	61+39'SB'	-	64+85'SB'	LT/RT	-	108	129	373	-	-	19	194	629	-
0010	78+02'SB'	-	82+22 'SB'	RT	-		-	890	-	-	-	51	890	-
STAGE 2 TOTALS					0	108	129	1,263	0	81	19	245	1,600	0
STAGE 3														
0010	7+59'SB'	-	8+59'SB'	RT	-	-	-	-	-	-	-	78	127	127
STAGE 3 TOTALS					0	0	0	0	0	0	0	78	127	127
CLOSURE														
0010	83+17'NB'	-	90+10'NB'	LT	-	-	-	1,713	-	-	-	205	1,713	-
0010	96+40'SB'	-	97+78'SB'	LT	-	-	-	155	-	-	-	-	155	-
CLOSURE TOTALS					0	0	0	1,868	0	0	0	205	1,868	0
				TOTAL 0010	0	108	272	4,273	0	162	19	681	4,961	127
ROUNDABOUT														
0030	405+29 'RNB'	-	409+45 'RNB'		-	-	513	663	-	-	43	106	-	-
0030	410+89 'RNB'	-	415+09 'RNB'		-	-	473	664	-	-	35	106	-	-
0030	200+00 'AEB'	-	202+04 'AEB'		-	-	632	-	-	-	38	110	-	-
0030	300+06 'BEB'	-	301+89 'BEB'		-	-	819	326	-	-	33	106	-	-
0030	10+00 'RAB'	-	13+45 'RAB'		245	-	-	-	333	-	-	-	-	-
				TOTAL 0030	245	0	2,437	1,653	333	0	149	428	0	0
				PROJECT TOTAL	245	108	2,709	5,926	333	162	168	1,109	4,961	127

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CONCRETE SIDEWALK

CATEGORY	STATION	TO	STATION	LOCATION	602.0405 CONCRETE SIDEWALK 4-INCH SF	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF	620.0100 CONCRETE CORRUGATED MEDIAN SF	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	650.9500.01 CONSTRUCTION STAKING SIDEWALK (PROJECT) (01. 5420-02-72) EACH
STAGE 1										
0010	78+60'NB'	-	81+96'NB'	LT	3,135	-	-	-	-	-
STAGE 1 TOTALS					3,135	0	0	0	0	0
STAGE 2										
0010	62+42'NB'	-	63+11'NB'	LT&RT	590	340	80	-	5	-
0010	78+60'NB'		81+96'NB'	LT	1,955	-	-	-	-	-
STAGE 2 TOTALS					2,545	340	80	0	5	0
CLOSURE										
0010	83+17'NB'	-	86+80'NB'	LT	5,090	-	-	-	-	-
0010	94+92'NB'		96+97'NB'	LT	-	-	-	870	-	-
CLOSURE TOTALS					5,090	0	0	870	0	0
				TOTAL 0010	10,770	340	80	870	5	0
ROUNDABOUT										
0030	405+29 'RNB'	-	409+45 'RNB'		3,673	313	48	-	3	1
0030	410+89 'RNB'	-	415+09 'RNB'		3,201	166	32	-	2	-
0030	200+00 'AEB'	-	202+04 'AEB'		818	2,789	64	-	4	-
0030	300+06 'BEB'	-	301+89 'BEB'		1,143	154	32	-	2	-
				TOTAL 0030	8,835	3,422	176	0	11	1
PATH EXTENSION										
0040	63+00'NB'	-	63+00'NB'	RT	-	98	32	-	2	-
				TOTAL 0040	0	98	32	0	2	0
				PROJECT TOTAL	19,605	3,860	288	870	18	1

STORM SEWER PIPES

CATEGORY	FROM	-	TO	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0415 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 15-INCH LF	608.0418 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE FT/FT	REMARKS
STAGE 1										
0010	CONCRETE COLLAR	-	MH-10.1	-	-	13	858.90	858.78	1.00%	
0010	MH-10.1	-	IN-10.2	-	-	223	860.91	858.90	0.90%	
0010	IN-10.2	-	IN-10.8	49	-	-	861.66	861.41	0.50%	REMAINDER OF PIPE INSTALLED IN STAGE 2
0010	IN-10.2	-	IN-10.3	-	-	30	861.00	860.91	0.30%	
0010	IN-10.3	-	MH-10.4	-	270	-	861.81	861.00	0.30%	
0010	MH-10.4	-	IN-10.4	-	42	-	861.94	861.81	0.30%	REMAINDER OF PIPE INSTALLED IN STAGE 2
0010	IN-10.4	-	IN-10.5	12	-	-	862.76	862.64	1.00%	
0010	IN-10.5	-	IN-10.6	159	-	-	863.34	862.86	0.50%	
0010	IM-10.9	-	EW-10.9	72	-	-	862.97	862.64	0.46%	
STAGE 1 TOTALS				292	312	266				
STAGE 2										
0010	IN-10.2	-	IN-10.8	49	-	-	861.90	861.66	0.50%	FIRST PORTION OF PIPE INSTALLED IN STAGE 1
0010	MH-10.4	-	IN-10.4	-	234	-	862.64	861.94	0.30%	REMAINDER OF PIPE INSTALLED IN STAGE 2
STAGE 2 TOTALS				49	234	0				
			TOTAL 0010	341	546	266				
ROUNDABOUT										
0030	EW11.1	-	IN-11.2	56	-	-	910.25	909.97	0.50%	
0030	IN-11.2	-	IN-11.3	8	-	-	910.29	910.25	0.50%	
0030	EW-12.1	-	IN-12.2	33	-	-	911.82	911.66	0.50%	
0030	IN-12.2	-	IN-12.3	24	-	-	911.95	911.82	0.50%	
0030	EW-13.1	-	IN-13.2	-	-	28	913.96	913.82	0.50%	
0030	IN-13.2	-	IN-13.3	21	-	-	914.06	913.96	0.50%	
0030	IN-13.3	-	IN-13.4	12	-	-	914.12	914.06	0.50%	
0030	IN-13.4	-	IN-13.5	19	-	-	914.21	914.12	0.50%	
0030	IN-13.2	-	IN-13.6	309	-	-	934.89	914.46	6.50%	
			TOTAL 0030	482	0	28				
			PROJECT TOTAL	823	546	294				

ADJUSTING MANHOLE COVERS

CATEGORY	STATION	LOCATION	611.8110 ADJUSTING MANHOLE COVERS EACH
0010	64+11'SB'	51' LT	1
0010	82+79'SB'	53' LT	1
		TOTAL 0010	2

3

CULVERT PIPE ITEMS

CATEGORY	OUTLET STATION	OUTLET ELEV.	INLET STATION	INLET ELEV.	520.1042 APRON ENDWALLS FOR CULVERT PIPE 42-INCH EACH	520.3142 CULVERT PIPE CLASS III 42-INCH LF	521.1515 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 15-INCH 6 TO 1 EACH	608.3015 STORM SEWER PIPE CLASS III-A 15-INCH LF	611.9800.S PIPE GRATES EACH	* 633.5200 MARKERS CULVERT END EACH	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH
ROUNDABOUT											
0030	413+47.65 'RNB', 54.0' LT	908.63	413+86.93 'RNB', 55.7' RT	909.22	2	117	-	-	2	2	1
0030	413+54.83 'RNB', 56.6' LT	908.63	413+94.34 'RNB', 53.0' RT	909.22	2	117	-	-	2	2	1
				TOTAL 0030	4	234	0	0	4	4	2
PATH EXTENSION											
0040	62+88.14 'NB', 45.29' RT	861.86	63+10.25 'NB', 46.17'RT	861.93	-	-	2	15	-	2	1
				TOTAL 0040	0	0	2	15	0	2	1
				PROJECT TOTAL	4	234	2	15	4	6	3

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

3

PIPE UNDERDRAIN

CATEGORY	STATION	TO	STATION	LOCATION	612.0106 PIPE UNDERDRAIN 6-INCH LF	612.0206 PIPE UNDERDRAIN UNPERFORATED 6-INCH LF	612.0806 APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH EACH	646.5520 MARKING OUTFALL EPOXY EACH
STAGE 1								
0010	57+00'NB'	-	65+00'NB'	LT/RT	1,327	156	3	3
0010	78+37'NB'	-	81+99'NB'	LT	362	-	-	-
STAGE 1 TOTALS					1,689	156	3	3
STAGE 2								
0010	11+90'SB'	-	22+00'SB'	RT	1,010	86	2	2
0010	23+23'SB'	-	45+50'SB'	RT	2,530	260	5	5
0010	57+00'SB'	-	63+37'SB'	RT	635	60	1	1
0010	75+34'SB'	-	82+25'SB'	RT	1,015	-	-	-
STAGE 2 TOTALS					5,190	406	8	8
CLOSURE								
0010	83+17'NB'	-	95+94'NB'	LT	2,553	96	2	2
				TOTAL 0010	9,432	658	13	13
ROUNDABOUT								
0030	200+00'AEB'	-	202+05'AEB'	RT	229	42	-	-
0030	200+00'AWB'	-	411+90'RSB'	LT	356	-	1	1
0030	300+50'BEB'	-	303+66'BEB'	RT	313	-	-	-
0030	300+48'BWB'	-	303+47'BWB'	LT	300	-	-	-
0030	10+00'RAB'	-	13+45'RAB'	LT	330	-	-	-
				TOTAL 0030	1,528	42	1	1
				PROJECT TOTAL	10,960	700	14	14

RIPRAP AND GEOTEXTILE FABRIC

CATEGORY	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	645.0120 GEOTEXTILE TYPE HR SY	REMARKS
STAGE 1 & CLOSURE					
0010	62+88 'NB'	RT	4	8	C-1
0010	88+25 'NB'	RT	2	4	EW-10.9
		TOTAL 0010	6	12	
ROUNDABOUT					
0030	10+66 'RAB'	RT	2	4	EW-11.1
0030	300+41 'BWB'	LT	3	6	EW-13.1
0030	411+90 'RSB'	LT	2	4	EW-12.1
0030	413+52 'RSB'	LT	10	19	C-2, C-3
		TOTAL 0030	17	33	
		PROJECT TOTAL	23	45	

STORM SEWER STRUCTURES

CATEGORY	STRUCTURE	STATION	OFFSET**	LOCATION	520.8000 CONCRETE COLLARS FOR PIPE EACH	522.1012 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH EACH	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0636 INLET COVERS TYPE HM-S EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0645 INLET COVERS TYPE MS-A EACH	611.0652 INLET COVERS TYPE T EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3225 INLETS 2X2.5-FT EACH	611.3230 INLETS 2X3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	* 633.5200 MARKERS CULVERT END EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	RIM ELEVATION	INVERT*** ELEVATION	DEPTH**** FT
STAGE 1																										
0010	MH-10.1	77+45	17.7' RT	SB STH 113	1	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	1	864.16	858.90	4.02
0010	IN-10.2	79+68	14.5'RT	SB STH 113	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	864.74	860.91	2.83
0010	IN-10.3	79+45	5.5'LT	NB STH 113	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	864.99	861.00	2.99
0010	MH-10.4	82+16	5.5' LT	NB STH 113	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	1	866.17	861.81	3.12
0010	IN-10.4	84+92	5.5' LT	NB STH 113	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	1	865.59	862.64	1.95
0010	IN-10.5	84+84	14.5'LT	NB STH 113	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	1	865.82	862.76	2.06
0010	IN-10.6	83+50	5.5'RT	SB STH 113	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	1	866.04	863.34	1.70
0010	IM-10.9	88+25	22.2'LT	NB STH 113	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	1	864.72	862.97	1.06
0010	EW-10.9	88+25	49.9'RT	NB STH 113	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	862.64	-
STAGE 1 TOTALS					1	1	0	2	0	1	4	0	1	0	2	1	3	0	1	1	1	9			
STAGE 2																										
0010	IN-10.8	80+66	5.5'RT	SB STH 113	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	1	865.34	861.90	2.44
				TOTAL 0010	1	1	0	2	0	1	5	0	1	0	2	1	3	0	2	1	1	10			
ROUNDABOUT																										
0030	EW-11.1	10+66	54.0'RT	RAB	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	909.97	-
0030	IN-11.2	10+67	1.7'LT	RAB	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	913.94	910.25	2.61
0030	IN-11.3	10+76	1.7'LT	RAB	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	913.95	910.29	2.58
0030	EW-12.1	411+90	51.1'LT	RSB	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	911.66	-
0030	IN-12.2	411+90	18.5'LT	RSB	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	1	915.37	911.82	2.55
0030	IN-12.3	411+76	1.5'RT	RSB	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	1	915.70	911.95	2.75
0030	EW-13.1	300+41	46.1'LT	BWB	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	913.82	-
0030	IN-13.2	300+48	18.4'LT	BWB	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	1	917.93	913.96	2.97
0030	IN-13.3	300+40	1.5'RT	BWB	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	1	917.51	914.06	2.45
0030	IN-13.4	300+50	1.5'LT	BEB	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	1	917.46	914.12	2.34
0030	IN-13.5	300+50	17.1'RT	BEB	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	1	917.16	914.21	1.95
0030	IN-13.6	303+57	25.4'LT	BWB	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	1	938.19	934.89	2.61
				TOTAL 0030	0	2	1	0	4	0	1	1	1	2	0	0	0	2	6	1	3	12			
				PROJECT TOTAL	1	3	1	2	4	1	6	1	2	2	2	1	3	2	8	2	4	22			

REMARKS
* ADDITIONAL QUANTITIES LISTED ELSEWHERE
** 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 ADJUSTEMENT RING HEIGHT

GUARDRAIL

CATEGORY	STATION	TO	STATION	LOCATION	614.2300 MGS GUARDRAIL 3 LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH
STAGE 1							
0010	47+05'NB'	-	51+59'NB'	LT/RT	275	158	4
STAGE 2							
0010	48+70'SB'	-	53+35'SB'	LT/RT	375	158	4
				TOTAL 0010	650	316	8

CULVERT PIPE CHECKS

CATEGORY	STATION	LOCATION	628.7555 CULVERT PIPE CHECKS EACH	REMARKS
STAGE 1 & CLOSURE				
0010	63+10 'NB'	RT	2	
0010	64+81 'SB'	RT	5	EXISTING MEDIAN CULVERT PIPE
0010	186+42 'TWL'	LT	3	EXISTING MEDIAN CULVERT PIPE
		TOTAL 0010	10	
ROUNDABOUT				
0030	413+90 'RNB'	RT	7	
0030	414+00 'RNB'	RT	7	
		TOTAL 0030	14	
		PROJECT TOTAL	24	

TRACKING PADS

CATEGORY	STATION	LOCATION	628.7560 TRACKING PADS EACH
0010	STAGE 1	UNDISTRIBUTED	3
0010	STAGE 2	UNDISTRIBUTED	3
		TOTAL 0010	6

SILT FENCE

CATEGORY	STATION	TO	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF
ROUNDABOUT						
0030	141+46 'TWL'	-	403+06 'NB'	RT	357	357
0030	199+98 'REB'	-	411+86 'RSB'	LT	281	281
0030	411+94 'RSB'	-	413+40 'RSB'	LT	152	152
0030	413+59 'RSB'	-	420+28 'RSB'	LT	681	681
0030	414+00 'RNB'	-	420+17 'RNB'	RT	619	619
0030	UNDISTRIBUTED				310	310
				TOTAL 0030	2,400	2,400

INLET PROTECTION

CATEGORY	STATION	LOCATION	628.7005 INLET PROTECTION TYPE A EACH	628.7015 INLET PROTECTION TYPE C EACH	REMARKS
STAGES 1 & 2					
0010	8+87 'NB'	RT	-	1	EXISTING INLET
0010	8+93 'SB'	LT	-	1	EXISTING INLET
0010	28+86 'NB'	LT	1	-	EXISTING MEDIAN INLET
0010	45+44 'NB'	LT	1	-	EXISTING MEDIAN INLET
0010	62+40 'NB'	LT	1	-	EXISTING MEDIAN INLET
0010	73+35 'NB'	LT	1	-	EXISTING MEDIAN INLET
0010	79+45 'NB'	LT	-	1	PROPOSED INLET
0010	79+68 'SB'	RT	-	1	PROPOSED INLET
0010	80+66 'SB'	RT	-	1	PROPOSED INLET
0010	83+50 'SB'	RT	-	1	PROPOSED INLET
0010	84+84 'NB'	LT	-	1	PROPOSED INLET
0010	84+92 'NB'	LT	-	1	PROPOSED INLET
0010	85+06 'SB'	RT	-	1	PROPOSED INLET
0010	88+25 'NB'	LT	1	-	PROPOSED INLET
		TOTAL 0010	5	9	
ROUNDABOUT					
0030	10+67 'RAB'	LT	-	1	PROPOSED INLET
0030	10+76 'RAB'	LT	-	1	PROPOSED INLET
0030	300+40 'BWB'	RT	-	1	PROPOSED INLET
0030	300+48 'BWB'	LT	-	1	PROPOSED INLET
0030	300+50 'BEB'	LT & RT	-	2	PROPOSED INLET
0030	303+57'BWB'	LT	1	-	PROPOSED INLET
0030	411+76 'RSB'	LT	-	1	PROPOSED INLET
0030	411+90 'RSB	LT	-	1	PROPOSED INLET
		TOTAL 0030	1	8	
		PROJECT TOTAL	6	17	

TEMPORARY STONE DITCH CHECKS

CATEGORY	STATION	LOCATION	628.7515.S STONE DITCH CHECKS (TEMPORARY) CY	645.0130 GEOTEXTILE TYPE R SY
ROUNDABOUT				
0030	300+70 'BEB'	RT	20	40
0030	301+20 'BEB'	RT	20	40
0030	301+60 'BEB'	RT	20	40
0030	302+00 'BEB'	RT	20	40
0030	302+40 'BEB'	RT	20	40
0030	302+80 'BEB'	RT	20	40
0030	302+20 'BEB'	RT	20	40
0030	302+60 'BEB'	RT	20	40
0030	303+00 'BEB'	RT	20	40
0030	303+40 'BEB'	RT	20	40
		TOTAL 0030	200	400

EROSION CONTROL MOBILIZATION

CATEGORY	LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
STAGE 1			
0010	PROJECT	3	2
STAGE 2			
0010	PROJECT	3	2
0010	TOTAL 0010	6	4
ROUNDABOUT			
0030	PROJECT	3	2
	TOTAL 0030	3	2
	PROJECT TOTAL	9	6

EMAT ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	628.2004 EROSION MAT CLASS I TYPE B SY	628.2023 EROSION MAT CLASS II TYPE B SY	REMARKS
STAGE 1							
0010	22+44 'NB'	-	22+53 'NB'	RT	120	-	DEBS RD
0010	62+92 'NB'	-	63+06 'NB'	RT	92	-	NEW PATH CONNECTION
0010	74+00 'NB'	-	78+85 'NB'	LT	430	-	
0010	81+62 'NB'	-	83+19 'NB'	RT	133	-	RIVER RD
0010	UNDISTRIBUTED				80	-	
STAGE 1 TOTALS					855	0	
STAGE 2							
0010	61+40 'SB'	-	64+87 'SB'	LT	422	-	CTH M & PATH
0010	82+31 'SB'	-	83+81 'SB'	LT	138	-	RIVER RD
0010	UNDISTRIBUTED				60	-	
STAGE 2 TOTALS					620	0	
CLOSURE							
0010	86+58 'SB'	-	90+31 'SB'	RT	332	-	
0010	96+40 'SB'	-	97+80 'SB'	LT	123	-	KENNEDY DR
0010	UNDISTRIBUTED				50	-	
CLOSURE TOTALS					505	0	
				TOTAL 0010	1,980	0	
ROUNDABOUT							
0030	403+10 'RNB'	-	409+50 'RNB'	RT	708	-	
0030	400+00 'RSB'	-	409+50 'RSB'	LT	1,010	-	
0030	410+89 'RNB'	-	413+85 'RNB'	RT	349	-	
0030	410+95 'RSB'	-	412+64 'RSB'	LT	132	-	
0030	200+00 'AEB'	-	202+05 'AEB'	RT	311	-	ARBORETUM DR
0030	200+00 'AEB'	-	202+18 'AWB'	LT	180	-	ARBORETUM DR
0030	300+00 'BEB'	-	304+80 'BEB'	RT	321	423	BONG RD
0030	300+00 'BWB'	-	304+00 'BWB'	LT	466	-	BONG RD
0030	10+44 'RAB'	-	10+76 'RAB'	RT	99	-	
0030	11+46 'RAB'	-	11+65 'RAB'	RT	29	10	
0030	12+16 'RAB'	-	12+49 'RAB'	RT	63	-	
0030	13+02 'RAB'	-	13+37 'RAB'	RT	52	-	
0030	UNDISTRIBUTED				380	42	
				TOTAL 0030	4,100	475	
				PROJECT TOTAL	6,080	475	

TEMPORARY DITCH CHECKS

CATEGORY	STATION	LOCATION	628.7504 TEMPORARY DITCH CHECKS LF
ROUNDABOUT			
0030	141+90 'TWL'	LT	10
0030	401+30 'RSB'	LT	10
0030	401+90 'RSB'	LT	10
0030	403+00 'RSB'	LT	10
0030	403+10 'RNB'	RT	10
0030	404+00 'RSB'	LT	10
0030	404+50 'RNB'	RT	10
0030	405+00 'RSB'	LT	10
0030	405+00 'RNB'	RT	10
0030	406+00 'RSB'	LT	10
0030	406+10 'RNB'	RT	10
0030	407+50 'RSB'	LT	10
0030	407+50 'RNB'	RT	10
0030	408+00 'RNB'	RT	10
0030	409+00 'RNB'	RT	10
0030	409+30 'RSB'	LT	10
0030	300+00 'BEB'	RT	10
0030	300+00 'BWB'	LT	10
0030	300+80 'BWB'	LT	10
0030	301+30 'BWB'	LT	10
0030	304+00 'BWB'	LT	10
0030	304+30 'BWB'	LT	10
		TOTAL 0030	220

LANDSCAPING ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL
STAGE 1											
0010	10+00 'NB'	-	24+00 'NB'	LT & RT	1,830	1,720	1	33	-	25	10
0010	24+00 'NB'	-	49+75 'NB'	LT & RT	3,765	3,760	3	68	-	50	21
0010	50+50 'NB'	-	63+00 'NB'	LT & RT	2,070	2,070	2	38	-	30	12
0010	63+00 'NB'	-	82+17 'NB'	LT & RT	3,380	2,930	2	61	-	46	19
			UNDISTRIBUTED		1,700	1,550	2	30	-	22	9
STAGE 1 TOTALS					12,745	12,030	10	230	0	173	71
STAGE 2											
0010	11+89 'SB'	-	24+00 'SB'	LT & RT	1,110	1,110	1	20	-	15	6
0010	24+00 'SB'	-	48+63 'SB'	LT & RT	4,625	4,625	3	83	-	62	26
0010	50+67 'SB'	-	64+00 'SB'	LT & RT	1,320	1,000	1	24	-	18	7
0010	64+00 'SB'	-	83+79 'SB'	LT & RT	3,520	3,275	2	64	-	48	20
			UNDISTRIBUTED		1,600	1,550	2	30	-	21	9
STAGE 2 TOTALS					12,175	11,560	9	221	0	164	68
CLOSURE											
0010	83+17 'NB'	-	141+97 'TWL'	RT	6,265	6,265	4	113	-	85	35
0010	83+79 'SB'	-	141+97 'TWL'	LT	5,340	4,885	3	96	-	72	30
0010	162+01 'TWL'	-	189+43 'TWL'	RT	2,810	2,805	2	51	-	38	16
0010	162+01 'TWL'	-	189+42 'TWL'	LT	2,415	2,415	2	44	-	33	14
			UNDISTRIBUTED		2,500	2,500	2	45		35	14
STAGE 2 TOTALS					19,330	18,870	13	349	0	263	109
				TOTAL 0010	44,250	42,460	32	800	0	600	248
ROUNDABOUT											
0030	400+00 'RNB'	-	409+37 'RNB'	RT	1,810	1,100	1	33	-	24	10
0030	400+00 'RSB'	-	409+50 'RSB'	LT	5,340	4,325	3	96	-	72	30
0030	410+89 'RNB'	-	420+11 'RNB'	RT	2,405	2,060	2	43	-	32	13
0030	410+95 'RSB'	-	420+14 'RSB'	LT	2,275	2,145	1	41	-	31	13
0030	200+00 'AEB'	-	202+05 'AEB'	RT	425	115	1	8	-	6	2
0030	200+00 'AEB'	-	202+18 'AWB'	LT	660	480	1	12	-	9	4
0030	300+00 'BEB'	-	304+80 'BEB'	RT	845	100	1	15	-	11	5
0030	300+00 'BWB'	-	304+00 'BWB'	LT	910	445	1	16	-	12	5
0030	10+44 'RAB'	-	10+76 'RAB'	RT	135	35	1	2	-	2	1
0030	11+34 'RAB'	-	11+65 'RAB'	RT	135	95	1	2	-	2	1
0030	12+16 'RAB'	-	12+49 'RAB	RT	180	115	1	3	-	2	1
0030	13+02 'RAB'	-	13+37 'RAB'	RT	210	155	1	4	-	3	1
0030	CENTER ISLAND				520	520	1	-	9	0	3
0030	UNDISTRIBUTED				2,400	1,850	2	45	1	34	13
				TOTAL 0030	18,250	13,540	18	320	10	240	102
				PROJECT TOTAL	62,500	56,000	50	1,120	10	840	350

PERMANENT SIGNING

CATEGORY	SIGN NO	STATION	LOCATION	SIGN CODE	SIZE IN	SIZE X	SIZE IN	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	634.0814 POSTS TUBULAR STEEL 2X2-INCH X 14-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	REMARKS
STH 113														
0010	201	75+21 'NB'	LT	R3-20L	36		54	-	1	-	-	13.50	-	
0010	204	83+34 'NB'	RT	M1-94H	66		18	-	-	-	-	8.25	-	
0010	205	83+33 'NB'	LT	EX. R4-7	36		48	-	1	-	-	-	-	
0010	207	90+10 'NB'	LT	R3-20L	36		54	-	1	-	-	13.50	-	
0010	211	82+06 'SB'	LT	M1-94H	66		18	-	-	-	-	8.25	-	
0010	212	82+09 'SB'	RT	EX. R4-7	36		48	-	1	-	-	-	-	
0010		UNDISTRIBUTED							4					
							TOTAL 0010	0	8	0	0	43.50	0.00	
ROUNDABOUT														
0030	301	402+00 'RNB'	RT	W2-6	36		36	-	1	-	-	-	9.00	
0030	302	402+00 'RNB'	RT	W13-1	24		24	-	-	-	-	-	4.00	
0030	401	404+01 'RNB'	RT	D1-62	132		66	-	-	2	-	60.50	-	
0030	402	405+35 'RNB'	LT	R4-7	24		30	1	-	-	-	5.00	-	
0030	403	405+35 'RNB'	LT	W5-54	18		18	-	-	-	-	-	2.25	
0030	404	408+26 'RSB'	LT	J4-1	24		36	1	-	-	-	6.00	-	
0030	405	408+26 'RSB'	LT	R5-1A	36		24	-	-	-	-	6.00	-	
0030	406	405+33 'RSB'	LT	R2-1	24		30	1	-	-	-	5.00	-	
0030	407	405+33 'RSB'	LT	R5-1	36		36	-	-	-	-	9.00	-	
0030	501	409+35 'RNB'	LT	R1-2	36		31	-	-	-	1	3.88	-	REMOVABLE POST
0030	502	409+18 'RSB'	RT	R1-2	36		31	-	-	-	1	3.88	-	REMOVABLE POST
0030	503	300+15 'BEB'	LT	D1-1	60		15	-	-	-	2	6.25	-	REMOVABLE POSTS
0030	504	409+90 'RSB	RT	R6-1R	36		12	2	-	-	-	3.00	-	
0030	505	409+90 'RSB	RT	R6-4B	60		24	-	-	-	-	10.00	-	
0030	506	410+67 'RNB'	RT	R6-1R	36		12	2	-	-	-	3.00	-	
0030	507	410+67 'RNB'	RT	R6-4B	60		24	-	-	-	-	10.00	-	
0030	508	300+08 'BWB'	RT	R1-2	36		31	-	-	-	1	3.38	-	REMOVABLE POST
0030	509	410+67 'RNB'	RT	R1-2	36		31	1	-	-	-	3.38	-	
0030	510	411+01 'RNB'	LT	D1-1	42		30	-	-	-	1	8.75	-	REMOVABLE POST
0030	511	412+50 'RNB'	RT	J4-1	24		36	-	-	-	-	6.00	-	
0030	512	412+50 'RNB'	RT	R5-1A	36		24	-	-	-	-	6.00	-	
0030	513	411+05 'RSB'	RT	R1-2	36		31	-	-	-	1	3.38	-	REMOVABLE POST
0030	514	411+20 'RNB'	LT	R1-2	36		31	-	-	-	1	3.38	-	REMOVABLE POST
0030	515	201+46 'AWB'	LT	R5-1	30		30	1	-	-	-	6.25	-	
0030	516	201+42 'AWB'	RT	R4-7	24		30	1	-	-	-	5.00	-	
0030	517	202+03 'AWB'	RT	D1-1	90		15	-	-	-	2	9.38	-	REMOVABLE POSTS
0030	518	410+51 'RSB'	RT	R6-1R	36		12	2	-	-	-	3.00	-	
0030	519	410+51 'RSB'	RT	R6-4B	60		24	-	-	-	-	10.00	-	
0030	520	410+10 'RSB'	LT	R5-1R	36		12	2	-	-	-	3.00	-	
0030	521	410+10 'RSB'	LT	R6-4B	60		24	-	-	-	-	10.00	-	
0030	522	201+96 'AEB'	LT	R1-2	36		31	-	-	-	1	3.38	-	REMOVABLE POST
0030	523	201+81 'AWB'	RT	R1-2	36		31	1	-	-	-	3.38	-	
0030	524	409+39 'RSB'	RT	D1-1	42		30	-	-	-	1	8.75	-	REMOVABLE POST
0030	601	415+01 'RNB'	RT	R2-1	24		30	1	-	-	-	5.00	-	
0030	602	415+01 'RNB'	RT	R5-1	36		36	-	-	-	-	9.00	-	
0030	603	418+49 'RSB'	LT	W2-6	36		36	-	1	-	-	-	9.00	
0030	604	418+49 'RSB'	LT	W13-1	24		24	-	-	-	-	-	4.00	
0030	605	416+50 'RSB'	LT	D1-62	132		66	-	-	2	-	60.50	-	
0030	606	415+02 'RNB'	LT	R4-7	24		30	1	-	-	-	5.00	-	
0030	607	415+02 'RNB'	LT	W5-54	18		18	-	-	-	-	-	2.25	
0030	702	199+51 'AEB'	RT	W2-6	30		30	-	1	-	-	-	6.25	
0030	703	199+51 'AEB'	RT	W13-1	18		18	-	-	-	-	-	2.25	
0030	704	200+49 'AEB'	RT	J13-1	24		45	-	1	-	-	7.50	-	
0030	802	301+84 'BEB'	RT	R5-1	30		30	1	-	-	-	6.25	-	
0030	804	303+99 'BWB'	LT	W2-6	36		36	-	1	-	-	-	9.00	
0030	805	303+99 'BWB'	LT	W13-1	24		24	-	-	-	-	-	4.00	
0030	806	302+49 'BWB'	LT	J13-1	24		45	-	1	-	-	7.50	-	
0030	807	301+76 'BWB'	RT	R4-7	24		30	1	-	-	-	5.00	-	
0030	808	301+76 'BWB'	RT	W5-54	18		18	-	-	-	-	-	2.25	
0030		UNDISTRIBUTED							6					
							TOTAL 0030	19	12	4	12	333.67	54.25	
							PROJECT TOTAL	19	20	4	12	377.17	54.25	

REMOVING SIGNS AND SUPPORTS

CATEGORY	SIGN NO	STATION	LOCATION	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
STH 113								
0010	100	63+00'NB'	LT	1	-	-	1	CTH M JUNCTION SIGN
0010	101	63+05'NB'	LT	1	-	-	-	CTH M FOLDING STOP SIGN
0010	102	63+05'NB'	RT	1	-	-	-	CTH M FOLDING STOP SIGN
0010	202	79+24'NB'	LT	1	-	-	1	WRONG WAY
0010	203	82+06 'SB'	RT	1	-	-	-	FOLDING STOP SIGN
0010	205	83+15'NB'	LT	1	-	-	-	KEEP RIGHT
0010	206	84+21 'NB'	LT	1	-	-	1	THRU TRAFFIC MERGE RIGHT
0010	208	85+57 'NB'	LT	1	-	-	1	WRONG WAY
0010	209	83+57 'NB'	LT	1	-	-	1	DO NOT ENTER
0010	210	83+15'NB'	LT	1	-	-	-	STOP SIGN
0010	212	82+06 'SB'	RT	1	-	-	-	KEEP RIGHT
0010	213	81+41 'NB'	LT	1	-	-	1	DO NOT ENTER
0010		8+53 'SB'	RT	1	-	-	1	STAGE 1A - KEEP RIGHT
0010		13+59 'NB'	RT	1	-	-	1	STAGE 1B - NORTH STH 113
0010		15+62 'NB'	RT	1	-	-	1	STAGE 1B - 55 MPH SPEED LIMIT
0010		66+73 'NB'	RT	1	-	-	1	STAGE 1B - NORTH STH 113
0010		70+35 'NB'	RT	1	-	-	1	STAGE 1B - MADISON COUNTRY DAY SCHOOL
0010		74+59 'NB'	RT	1	-	-	2	STAGE 1B - RIVER ROAD
0010		76+68 'NB'	RT	1	-	-	2	STAGE 1B - DRUMLIN RIDGE WINERY
0010		13+59 'NB'	RT	1	-	-	1	STAGE 2A - NORTH STH 113
0010		15+12 'SB'	LT	1	-	-	2	STAGE 2A - KNUTSON DRIVE
0010		15+62 'NB'	RT	1	-	-	1	STAGE 2A - 55 MPH SPEED LIMIT
0010		53+51'SB'	LT	1	-	-	1	STAGE 2A - SOUTH STH 113
0010		64+74 'SB'	LT	1	-	-	1	STAGE 2A - CTH M RIGHT ARRROW
0010		67+00 'SB'	RT	1	-	-	1	STAGE 2A - NORTH STH 113
0010		70+35 'NB'	RT	1	-	-	1	STAGE 2A - MADISON COUNTRY DAY SCHOOL
0010		70+87 'SB'	LT	1	-	-	2	STAGE 2A - GOV. NELSON/MENDOTA COUNTY PARK
0010		74+13 'SB'	LT	1	-	-	2	STAGE 2A - MIDDLETON
0010		74+59 'NB'	RT	1	-	-	2	STAGE 2A - RIVER ROAD
0010		76+68 'NB'	RT	1	-	-	2	STAGE 2A - DRUMLIN RIDGE WINERY
0010		78+98 'SB'	RT	1	-	-	1	STAGE 2A - JUNCTION CTH M
0010		8+53 'SB'	RT	1	-	-	1	STAGE 3 - KEEP RIGHT
0010		64+74 'SB'	LT	1	-	-	1	STAGE 3 - CTH M RIGHT ARROW
0010		70+87 'SB'	LT	1	-	-	2	STAGE 3 - GOV. NELSON/MENDOTA COUNTY PARK
0010		74+13 'SB'	LT	1	-	-	2	STAGE 3 - MIDDLETON
0010		78+98 'SB'	RT	1	-	-	1	STAGE 3 - JUNCTION CTH M
0010		53+51'SB'	LT	1	-	-	1	STAGE 3 - SOUTH STH 113
0010		15+12 'SB'	LT	1	-	-	2	STAGE 3 - KNUTSON DRIVE
0010		UNDISTRIBUTED		4	-	-	4	
			TOTAL 0010	42	0	0	46	
ROUNDABOUT								
0030	301	402+00 'RNB'	RT	-	1	1	-	SPEED LIMIT INTERSECTION
0030	302	410+43 'RNB'	RT	-	1	1	-	STOP SIGN
0030	303	418+00 'RSB'	RT	-	1	1	-	SPEED LIMIT INTERSECTION
0030	304	201+63 'AWB'	RT	1	-	-	1	TRUCK WEIGHT LIMIT/ ALTERNATE SIDE PARKING
0030	305	201+30 'AEB'	RT	1	-	-	1	NO PARKING
0030	306	409+82 'RSB'	LT	-	1	1	-	STOP SIGN
0030	401	ARBORETUM DR	-	-	1	1	-	STOP AHEAD
0030	501	302+35 'BEB'	RT	1	-	-	1	SPEED LIMIT
0030		UNDISTRIBUTED		2	-	-	2	
			TOTAL 0030	5	5	5	5	
			PROJECT TOTAL	47	5	5	51	

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CONSTRUCTION STAKING

CATEGORY	LOCATION	SPV.0060.04 SPECIAL (04. CONSTRUCTION STAKING ROUNDABOUT) EACH
0030	PROJECT 5420-02-72	1
	TOTAL 0030	1

LANDMARK REFERENCE MONUMENTS

CATEGORY	STATION	OFFSET	LOCATION	SPV.0060.05 SPECIAL (05. LANDMARK REFERENCE MONUMENTS SPECIAL) EACH	SPV.0060.06 SPECIAL (06. VERIFY LANDMARK REFERENCE MONUMENTS) EACH	REMARKS
0010	178+45.90'TWL'	69.72	LT	-	1	SECTION CORNER 40809102020
			TOTAL 0010	0	1	
0030	10+37.99'RAB'	1.20	LT	1	1	SECTION CORNER 40809100020
			TOTAL 0030	1	1	
			PROJECT TOTAL	1	2	

DETOUR SIGNING

CATEGORY	LOCATION	SHEET SHOWN IN PLAN SET	DETOUR DURATION DAYS	* 643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH	643.0420 DAY	* 643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH	643.0705 DAY	* 643.0900 TRAFFIC CONTROL SIGNS EACH	643.0900 DAY	643.0910 TRAFFIC CONTROL COVERING SIGNS TYPE I NUMBER OF CYCLES	643.0910 NUMBER OF SIGNS	643.0910 EACH	* 643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II NUMBER OF CYCLES	643.0920 NUMBER OF SIGNS	643.0920 EACH
0010	REASSURANCE SIGNS AT MAJOR INTERSECTIONS	DETOUR PLAN	163	2	326	4	652	36	5,868	0	0	0	1	3	3
0010	EASTBOUND STH 19/113 AT CTH I	DETOUR PLAN - DETAIL 1	163	0	0	0	0	25	4,075	1	1	1	0	0	0
0010	WESTBOUND STH 19/113 AT CTH I	DETOUR PLAN - DETAIL 1	163	0	0	0	0	6	978	1	1	1	0	0	0
0010	SOUTHBOUND CTH I AT STH 19/113	DETOUR PLAN - DETAIL 1	163	1	163	2	326	17	2,771	1	1	1	1	1	1
0010	EASTBOUND STH 19 AT RIVER RD	DETOUR PLAN - DETAIL 2	163	0	0	0	0	15	2,445	0	0	0	0	0	0
0010	WESTBOUND STH 19 AT RIVER RD	DETOUR PLAN - DETAIL 2	163	0	0	0	0	15	2,445	0	0	0	0	0	0
0010	EASTBOUND STH 19 AT IH 39/90/94	DETOUR PLAN - DETAIL 3	163	0	0	0	0	12	1,956	0	0	0	0	0	0
0010	WESTBOUND STH 19 AT IH 39/90/94	DETOUR PLAN - DETAIL 3	163	0	0	0	0	41	6,683	0	0	0	0	0	0
0010	NORTHBOUND IH 39/90/94 AT STH 19	DETOUR PLAN - DETAIL 3	163	0	0	0	0	20	3,260	0	0	0	0	0	0
0010	SOUTHBOUND IH 39/90/94 AT STH 19	DETOUR PLAN - DETAIL 3	163	0	0	0	0	3	489	0	0	0	0	0	0
0010	EASTBOUND USH 151 AT IH 39/90/94	DETOUR PLAN - DETAIL 4	163	0	0	0	0	24	3,912	0	0	0	0	0	0
0010	WESTBOUND USH 151 AT IH 39/90/94	DETOUR PLAN - DETAIL 4	163	0	0	0	0	3	489	0	0	0	0	0	0
0010	NORTHBOUND IH 39/90/94 AT USH 151	DETOUR PLAN - DETAIL 4	163	0	0	0	0	7	1,141	0	0	0	0	0	0
0010	SOUTHBOUND IH 39/90/94 AT USH 151	DETOUR PLAN - DETAIL 4	163	0	0	0	0	16	2,608	0	0	0	0	0	0
0010	EASTBOUND E JOHNSON ST AT STH 113 (FIRST ST)	DETOUR PLAN - DETAIL 5	163	1	163	2	326	13	2,119	0	0	0	0	0	0
0010	SOUTHBOUND STH 113 (FIRST STREET) AT USH 151	DETOUR PLAN - DETAIL 5	163	0	0	0	0	8	1,304	0	0	0	0	0	0
0010	NORTHBOUND USH 151 AT STH 113 (FIRST ST)	DETOUR PLAN - DETAIL 5	163	0	0	0	0	18	2,934	0	0	0	1	3	3
0010	SOUTHBOUND USH 151 AT STH 113 (FIRST ST)	DETOUR PLAN - DETAIL 5	163	0	0	0	0	1	163	0	0	0	0	0	0
		TOTAL 0010			652		1,304		45,640			3			7

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

PCMS

CATEGORY	LOCATION	DURATION DAYS	TRAFFIC CONTROL SIGNS PCMS EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY	REMARKS
0010	NB1	14	1	14	STH 113 SOUTHERN PROJECT LIMTS
0010	NB2	7	1	7	STH 113 AT RIVER RD
0010	SB1	7	1	7	STH 113 NORTHERN PROJECT LIMITS
0010	EB1	14	1	14	CTH M
	TOTAL 0010			42	

TRAFFIC CONTROL

CATEGORY	STATION	TO	STATION	LOCATION	DAYS	643.0300 * TRAFFIC CONTROL DRUMS EACH	643.0300 * TRAFFIC CONTROL DRUMS DAY	643.0410 TRAFFIC CONTROL BARRICADES TYPE II EACH	643.0410 TRAFFIC CONTROL BARRICADES TYPE II DAY	643.0420 * TRAFFIC CONTROL BARRICADES TYPE III EACH	643.0420 * TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES EACH	643.0705 * TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH	643.0705 * TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C EACH	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	643.0800 TRAFFIC CONTROL ARROW BOARDS EACH	643.0800 TRAFFIC CONTROL ARROW BOARDS DAY	643.0900 * TRAFFIC CONTROL SIGNS EACH	643.0900 * TRAFFIC CONTROL SIGNS DAY	643.0920 * TRAFFIC CONTROL COVERING SIGNS TYPE II NUMBER OF CYCLES	643.0920 * TRAFFIC CONTROL COVERING SIGNS TYPE II NUMBER OF SIGNS	643.0920 * TRAFFIC CONTROL COVERING SIGNS TYPE II EACH
STAGE 1A																									
0010	7+08 'NB'	-	23+00 'NB'	STH 113 NB	2	9	18	-	-	1	2	-	-	2	4	-	-	-	-	6	12	1	2	2
0010	7+08 'NB'	-	23+00 'NB'	STH 113 SB	2	38	76	-	-	1	2	-	-	2	4	14	28	1	2	3	6	-	-	-
0010	N/A	-	N/A	SIDE ROADS	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	-	-	-
0010	N/A	-	N/A	ADVANCE WARNING	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	12	-	-	-
				SUBTOTAL			94		0		4	0	0		8		28		2		34			2
STAGE 1B																								
0010	7+08 'NB'	-	84+00 'NB'	STH 113 NB	38	56	2,128	-	-	41	1,558	-	-	51	1,938	50	1,900	1	38	12	456	1	6	6
0010	7+08 'NB'	-	84+00 'NB'	STH 113 SB	38	7	266	-	-	7	266	199	199	6	228	7	266	-	-	21	798	1	8	8
0010	N/A	-	N/A	SIDE ROADS	38	58	2,204	-	-	1	38	-	-	2	76	20	760	1	38	9	342	1	4	4
0010	N/A	-	N/A	SIDEWALK CLOSURES	38	-	-	5	190	-	-	-	-	-	-	-	-	-	-	5	190	-	-	-
0010	N/A	-	N/A	ADVANCE WARNING	38	-	-	-	-	9	342	-	-	12	456	-	-	-	-	50	1,900	-	-	-
				SUBTOTAL			4,598		190		2,204	199	199		2,698		2,926		76		3,686			18
STAGE 1C																								
0010	7+08 'NB'	-	84+00 'NB'	STH 113 NB	38	56	2,128	-	-	41	1,558	-	-	51	1,938	50	1,900	1	38	12	456	-	-	-
0010	7+08 'NB'	-	84+00 'NB'	STH 113 SB	38	7	266	-	-	7	266	-	-	6	228	7	266	-	-	19	722	-	-	-
0010	N/A	-	N/A	SIDE ROADS	38	65	2,470	-	-	2	76	-	-	4	152	20	760	1	38	7	266	-	-	-
0010	N/A	-	N/A	SIDEWALK CLOSURES	38	-	-	5	190	-	-	-	-	-	-	-	-	-	-	5	190	-	-	-
0010	N/A	-	N/A	ADVANCE WARNING	38	-	-	-	-	9	342	-	-	12	456	-	-	-	-	50	1,900	-	-	-
				SUBTOTAL			4,864		190		2,242	0	0		2,774		2,926		76		3,534			0
STAGE 2A																								
0010	7+08 'NB'	-	84+00 'NB'	STH 113 NB	36	58	2,088	-	-	10	360	209	209	17	612	13	468	1	36	23	828	1	3	3
0010	7+08 'NB'	-	84+00 'NB'	STH 113 SB	36	3	108	-	-	43	1,548	-	-	49	1,764	3	108	-	-	10	360	-	-	-
0010	N/A	-	N/A	SIDE ROADS	36	47	1,692	-	-	3	108	-	-	5	180	5	180	-	-	9	324	-	-	-
0010	N/A	-	N/A	SIDEWALK CLOSURES	36	-	-	5	180	-	-	-	-	-	-	-	-	-	-	5	180	-	-	-
0010	N/A	-	N/A	ADVANCE WARNING	36	-	-	-	-	9	324	-	-	12	432	-	0	-	-	40	1,440	-	-	-
				SUBTOTAL			3,888		180		2,340	209	209		2,988		756		36		3,132			3
STAGE 2B																								
0010	7+08 'NB'	-	84+00 'NB'	STH 113 NB	35	70	2,450	-	-	19	665	-	-	26	910	13	455	1	35	25	875	-	-	-
0010	7+08 'NB'	-	84+00 'NB'	STH 113 SB	35	3	105	-	-	35	1,225	-	-	35	1,225	3	105	-	-	10	350	-	-	-
0010	N/A	-	N/A	SIDE ROADS	35	51	1,785	-	-	1	35	-	-	2	70	21	735	1	35	7	245	-	-	-
0010	N/A	-	N/A	SIDEWALK CLOSURES	35	-	-	5	175	-	-	-	-	-	-	-	-	-	-	5	175	-	-	-
0010	N/A	-	N/A	ADVANCE WARNING	35	-	-	-	-	9	315	-	-	12	420	-	-	-	-	40	1,400	-	-	-
				SUBTOTAL			4,340		175		2,240	0	0		2,625		1,295		70		3,045			0
STAGE 2C																								
0010	7+08 'NB'	-	84+00 'NB'	STH 113 NB	7	70	490	-	-	19	133	-	-	26	182	13	91	1	7	25	175	-	-	-
0010	7+08 'NB'	-	84+00 'NB'	STH 113 SB	7	3	21	-	-	35	245	-	-	35	245	3	21	-	-	10	70	-	-	-
0010	N/A	-	N/A	SIDE ROADS	7	55	385	-	-	1	7	-	-	2	14	-	-	-	-	8	56	-	-	-
0010	N/A	-	N/A	SIDEWALK CLOSURES	7	-	-	5	35	-	-	-	-	-	-	-	-	-	-	5	35	-	-	-
0010	N/A	-	N/A	ADVANCE WARNING	7	-	-	-	-	9	63	-	-	12	84	-	-	-	-	40	280	-	-	-
				SUBTOTAL			896		35		448	0	0		525		112		7		616			0
STAGE 3																								
0010	7+08 'NB'	-	8+00 'NB'	STH 113 NB	7	9	63	-	-	1	7	-	-	2	14	-	-	-	-	6	42	-	-	-
0010	57+00 'NB'		63+50 'NB'	STH 113 NB	7	12	84	-	-	1	7	-	-	2	14	-	-	-	-	3	21	-	-	-
0010	7+08 'NB'	-	79+00 'NB'	STH 113 SB	7	169	1,183	-	-	2	14	-	-	4	28	26	182	2	14	4	28	-	-	-
0010	N/A	-	N/A	SIDE ROAD	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	21	-	-	-
0010	N/A	-	N/A	ADVANCE WARNING	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	42	-	-	-
				SUBTOTAL			1,330		0		28	0	0		56		182		14		154			0
0010	UNDISTRIBUTED																					1	5	5
				TOTAL 0010			20,010		770		9,506	408	408		11,674		8,225		281		14,201			28

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

3

TRAFFIC CONTROL - MARKINGS

CATEGORY	STATION	TO	STATION	LOCATION	643.3105 TEMPORARY MARKING LINE PAINT 4-INCH LF	643.3150 TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH LF	643.3250 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH LF	643.3550 TEMPORARY MARKING ARROW REMOVABLE TAPE EACH	643.3805 TEMPORARY MARKING STOP LINE PAINT 18-INCH LF	643.3850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH LF	646.9000 MARKING REMOVAL LINE 4-INCH LF	646.9200 MARKING REMOVAL LINE WIDE LF	646.9300 MARKING REMOVAL SPECIAL MARKING EACH	REMARKS
STAGE 1A														
0010	15+70 'SB'	-	22+30 'SB'	STH 113 SB	-	670	-	-	-	-	165	-	-	
				SUBTOTAL	0	670	0	0	0	0	165	0	0	
STAGE 1B														
0010	KENNEDY RD	-	9+44 'NB'	STH 113 NB	-	1,460	-	-	-	-	368	101	4	
0010	KENNEDY RD	-	9+44 'SB'	STH 113 SB	-	360	-	-	-	-	-	-	-	
0010	9+44 'SB'	-	84+00 'SB'	STH 113 SB	19,810	750	-	-	50	12	6,950	-	-	
0010	N/A	-	N/A	CTH M	-	535	-	-	-	-	133	-	-	
0010	N/A	-	N/A	RIVER ROAD	-	865	-	-	-	10	-	25	-	
				SUBTOTAL	19,810	3,970	0	0	50	22	7,450	126	4	
STAGE 1C														
0010	82+09 'SB'	-	82+09 'SB'	STH 113 SB	-	-	-	-	13	-	-	-	-	
0010	N/A	-	N/A	RIVER ROAD	-	780	-	-	-	11	-	-	-	
				SUBTOTAL	0	780	0	0	13	11	0	0	0	
STAGE 2A														
0010	KENNEDY RD	-	12+11 'NB'	STH 113 NB	-	1,830	-	-	-	-	-	-	-	
0010	KENNEDY RD	-	9+20 'SB'	STH 113 SB	-	450	-	-	-	-	-	-	-	
0010	12+11 'NB'	-	84+00 'NB'	STH 113 NB	-	15,575	-	-	-	72	-	98	-	
0010	N/A	-	N/A	CTH M	-	-	155	2	-	-	-	-	-	"RIGHT" ARROWS & "ONLY" WORDS
0010	N/A	-	N/A	RIVER ROAD	-	730	-	-	-	37	-	-	-	
				SUBTOTAL	0	18,585	155	2	0	109	0	98	0	
STAGE 2B														
0010	55+29 'NB'	-	84+00 'NB'	STH 113 NB	-	1,323	-	-	-	-	-	-	-	
0010	N/A	-	N/A	CTH M	-	890	-	-	-	15	-	26	-	"RIGHT" ARROW
0010	N/A	-	N/A	RIVER ROAD	-	752	-	-	-	11	-	-	-	
				SUBTOTAL	0	2,965	0	0	0	26	0	26	0	
STAGE 2C														
0010	N/A	-	N/A	CTH M	-	225	-	-	-	-	-	-	-	
				SUBTOTAL	0	225	0	0	0	0	0	0	0	
STAGE 3														
0010	71+30 'SB'	-	77+91 'SB'	STH 113 SB	-	661	-	-	-	-	-	-	-	
				SUBTOTAL	0	661	0	0	0	0	0	0	0	
				TOTAL 0010	19,810	27,856	155	2	63	168	7,615	250	4	

3

PAVEMENT MARKING ITEMS

CATEGORY	STATION	TO	STATION	646.1020 MARKING LINE EPOXY 4-INCH (YELLOW) LF	646.1020 MARKING LINE EPOXY 4-INCH (WHITE) LF	646.1040 MARKING LINE GROOVED WET REF EPOXY 4-INCH (YELLOW) LF	646.1040 MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE) LF	646.3020 MARKING LINE EPOXY 8-INCH LF	646.3040 MARKING LINE GROOVED WET REF EPOXY 8-INCH LF	646.5020 MARKING ARROW EPOXY (TYPE 2) EACH	646.5020 MARKING ARROW EPOXY (BIKE ARROW) EACH	646.5120 MARKING WORD EPOXY (ONLY) EACH	646.5220 MARKING SYMBOL EPOXY (BIKE LANE) EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	646.6320 MARKING DOTTED EXTENSION EPOXY 18-INCH LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH LF	646.8020 MARKING CORRUGATED MEDIAN EPOXY SF	646.8120 MARKING CURB EPOXY LF	646.8220 MARKING ISLAND NOSE EPOXY EACH	REMARKS
STH 113																					
0010	10+00'NB'	-	24+00'NB'	1,303	1,861	-	490	-	485	2	-	1	-	-	-	71	-	-	-	-	MARKINGS EXTEND BEYOND BEGIN PROJECT LIMITS TO RESTORE STAGING AREA
0010	24+00'NB'	-	50+74'NB'	2,659	2,659	-	665	-	-	-	-	-	-	-	-	-	-	-	-	-	
0010	50+74'NB'	-	65+00'NB'	1,301	1,290	-	472	-	538	4	-	2	-	61	-	-	130	-	-	-	
0010	65+00'NB'	-	83+57'NB'	1,910	1,665	-	423	-	1,250	4	-	2	-	84	-	-	-	-	41	2	
0010	11+90'SB'	-	24+00'SB'	1,350	1,824	-	501	-	-	-	1	-	1	23	-	-	-	-	19	2	MARKINGS EXTEND BEYOND BEGIN PROJECT LIMITS TO RESTORE STAGING AREA
0010	24+00'SB'	-	50+75'SB'	2,659	2,659	-	665	-	-	-	-	-	-	-	-	-	-	-	-	-	
0010	50+75'SB'	-	65+22'SB'	1,302	1,371	44	327	25	419	1	-	-	-	62	-	-	122	-	155	3	
0010	65+22'SB'	-	83+79'SB'	1,866	1,710	-	425	-	339	3	-	1	-	78	-	-	-	-	41	2	
0010	83+79'SB'	-	105+49'SB'	5,263	2,673	-	1,886	-	1,964	4	-	3	-	19	-	402	-	376	-	2	
0010	105+49'TWL'	-	141+97'TWL'	4,203	-	-	7,295	-	-	-	-	-	-	-	-	-	-	-	-	-	
0010	162+01'TWL'	-	189+43'TWL'	6,459	718	-	4,947	-	-	-	-	-	-	-	-	232	-	-	-	-	WHITE EDGELINE CHANGES FROM GWR TO EPOXY FOR NB STH 113 AT STA. 182+25
			SUBTOTAL	30,275	18,430	44	18,096			18	1										
			TOTAL 0010	48,705		18,140		25	4,995	19		9	1	327	0	705	252	376	256	11	
ROUNDABOUT																					
0030	400+00 'RNB'	-	409+45 'RNB'	2,916	-	-	1,777	-	-	-	-	-	-	-	-	177	-	-	84	1	
0030	410+89 'RNB'	-	420+11 'RNB'	2,787	-	-	1,718	-	-	-	-	-	-	-	-	145	-	-	84	1	
0030	200+00 'AEB'	-	202+05 'AEB'	535	178	-	-	-	-	-	-	-	-	-	-	16	-	-	10	1	
0030	300+00 'BEB'	-	304+80 'BEB'	1,530	871	-	-	-	-	-	-	-	-	-	-	80	-	-	10	1	
0030	10+00 'RAB'	-	13+45 'RAB'	-	-	-	-	286	-	-	-	-	-	-	67	-	-	-	-	-	
			SUBTOTAL	7,768	1,049	0	3,495														
			TOTAL 0030	8,817		3,495		286	0	0		0	0	0	67	418	0	0	188	4	
			PROJECT TOTAL	57,522		21,635		311	4,995	19		9	1	327	67	1,123	252	376	444	15	

STREET LIGHTING ITEMS

CATEGORY	LIGHT NUMBER	STATION	OFFSET	LOCATION	654.0105 CONCRETE BASES TYPE 5 EACH	* 655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	* 657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0322 POLES TYPE 5-ALUMINUM EACH	657.0715 LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 15-FT EACH	659.1120 LUMINAIRES UTILITY LED B EACH
ROUNDABOUT										
0030	L1	201+29.21 'AEB'	19.6	RT	1	144	1	1	1	1
0030	L2	200+04.49 'AEB'	22.1	RT	1	144	1	1	1	1
0030	L3	202+11.14 'AWB'	25.7	LT	1	144	1	1	1	1
0030	L4	411+73.55 'RSB'	30.0	LT	1	144	1	1	1	1
0030	L5	413+41.29 'RSB'	27.1	LT	1	144	1	1	1	1
0030	L6	415+08.86 'RSB'	26.8	LT	1	144	1	1	1	1
0030	L7	409+40.85 'RSB'	40.0	LT	1	144	1	1	1	1
0030	L8	408+68.70 'RNB'	28.7	RT	1	144	1	1	1	1
0030	L9	406+99.63 'RNB'	27.4	RT	1	144	1	1	1	1
0030	L10	405+33.32 'RNB'	31.2	RT	1	144	1	1	1	1
0030	L11	300+02.08 'BEB'	28.0	RT	1	144	1	1	1	1
0030	L12	411+00.24 'RNB'	26.0	RT	1	144	1	1	1	1
0030	L13	301+12.45 'BWB'	22.2	LT	1	144	1	1	1	1
0030	L14	302+74.98 'BWB'	20.3	LT	1	144	1	1	1	1
				TOTAL 0030	14	2,016	14	14	14	14

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

3

LIGHTING CONDUIT AND WIRE ITEMS

CATEGORY	FROM	TO	* 652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	* 652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	652.0325 CONDUIT RIGID NONMETALLIC SCHEDULE 80 2-INCH LF	* 655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	REMARKS
ROUNDABOUT							
0030	LC1	PB-16	-	32	-	390	
0030	PB-16	PB-1	54	-	-	516	
0030	PB-1	L1	5	-	-	78	
0030	PB-1	PB-2	121	-	-	459	
0030	PB-2	L2	6	-	-	81	
0030	PB-16	PB-22	-	-	51	415	
0030	PB-22	PB-3	-	-	44	380	
0030	PB-3	L3	17	-	-	228	
0030	PB-3	PB-4	111	-	-	715	
0030	PB-4	L4	19	-	-	240	
0030	PB-4	PB-5	188	-	-	1,100	
0030	PB-5	L5	5	-	-	156	
0030	PB-5	PB-6	170	-	-	606	
0030	PB-6	L6	5	-	-	78	
0030	PB-4	PB-18	-	-	44	-	TRACER WIRE ONLY
0030	PB-18	PB-12	-	-	38	-	TRACER WIRE ONLY
0030	PB-12	L12	26	-	-	282	
0030	PB-12	PB-17	80	-	-	672	
0030	PB-17	PB-13	97	-	-	774	
0030	PB-13	L13	5	-	-	78	
0030	PB-13	PB-14	165	-	-	591	
0030	PB-14	L14	5	-	-	78	
0030	PB-17	PB-19	-	-	48	480	
0030	PB-19	PB-11	-	-	51	498	
0030	PB-11	L11	5	-	-	156	
0030	PB-11	PB-20	62	-	-	470	
0030	PB-20	PB-8	42	-	-	740	
0030	PB-8	L8	7	-	-	420	
0030	PB-8	PB-9	170	-	-	1,010	
0030	PB-9	L9	5	-	-	156	
0030	PB-9	PB-10	170	-	-	606	
0030	PB-10	L10	5	-	-	78	
0030	PB-20	PB-21	-	-	61	465	
0030	PB-21	PB-7	-	-	54	430	
0030	PB-7	L7	37	-	-	348	
0030	PB-7	PB-15	55	-	-	435	
0030	PB-15	LC1	-	36	-	205	
		TOTAL 0030	1,637	68	391	14,414	

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

LIGHTING PULL BOX ITEMS

CATEGORY	PULL BOX NUMBER	STATION	OFFSET	LOCATION	* 653.0164 PULL BOXES NON-CONDUCTIVE 24X42-INCH EACH
ROUNDABOUT					
0030	PB-1	201+29.44 'AEB'	24.6	RT	1
0030	PB-2	200+10.45 'AEB'	22.3	RT	1
0030	PB-3	201+95.04 'AWB'	29.2	LT	1
0030	PB-4	411+48.85 'RSB'	33.8	LT	1
0030	PB-5	413+41.50 'RSB'	32.1	LT	1
0030	PB-6	415+08.57 'RSB'	31.8	LT	1
0030	PB-7	409+34.36 'RSB'	26.0	LT	1
0030	PB-8	408+68.70 'RNB'	35.7	RT	1
0030	PB-9	406+99.75 'RNB'	32.4	RT	1
0030	PB-10	405+33.32 'RNB'	31.2	RT	1
0030	PB-11	300+03.14 'BEB'	32.9	RT	1
0030	PB-12	411+26.44 'RNB'	29.0	RT	1
0030	PB-13	301+12.70 'BWB'	27.2	LT	1
0030	PB-14	302+74.85 'BWB'	25.3	LT	1
0030	PB-15	10+52.52 'RAB'	37.1	RT	1
0030	PB-16	202+00.74 'AEB'	34.7	RT	1
0030	PB-17	12+20.70 'RAB'	39.1	RT	1
0030	PB-18	411+33.46 'RNB'	7.8	LT	1
0030	PB-19	300+14.94 'BWB'	13.8	RT	1
0030	PB-20	409+29.69 'RNB'	34.9	RT	1
0030	PB-21	409+28.08 'RNB'	15.7	LT	1
0030	PB-22	201+88.39 'AEB'	15.3	LT	1
				TOTAL 0030	22

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

CONTROL CABINET ITEMS

CATEGORY	CABINET NUMBER	STATION	OFFSET	LOCATION	654.0230 CONCRETE CONTROL CABINET BASES TYPE L30 EACH	656.0201.01 ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) (01. STATION 10+56'RAB', 53.80' RT) EACH	659.2130 LIGHTING CONTROL CABINETS 120/240 30-INCH EACH
ROUNDABOUT							
0030	LC1	10+56 'RAB'	53.8	RT	1	1	1
				TOTAL 0030	1	1	1

3

SAWING ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
STAGE 1						
0010	7+59'NB'	-	24+00'NB'	LT/RT	295	9
0010	24+00'NB'	-	49+53'NB'	LT/RT	94	-
0010	50+74'NB'	-	65+00'NB'	LT/RT	105	-
0010	65+00'NB'	-	83+57'NB'	LT/RT	353	-
0010			UNDISTRIBUTED		85	-
STAGE 1 TOTALS					932	9
STAGE 2						
0010	11+90'SB'	-	24+00'SB'	LT/RT	40	-
0010	24+00'SB'	-	49+54'SB'	LT/RT	-	19
0010	50+75'SB'	-	65+22'SB'	LT/RT	338	23
0010	65+22'SB'	-	83+79'SB'	LT/RT	291	-
0010			UNDISTRIBUTED		71	-
STAGE 2 TOTALS					740	42
CLOSURE						
0010	83+79'SB'	-	105+49'SB'	LT/RT	25	-
0010	162+01'TWL'	-	189+43'TWL'	LT/RT	153	-
CLOSURE TOTALS					178	0
				TOTAL 0010	1,850	51
ROUNDABOUT						
0030	200+00 'AEB'	-	202+05 'AEB'	LT/RT	38	5
0030	300+00 'BEB'	-	304+80 'BEB'	LT/RT	22	24
				TOTAL 0030	60	29
				PROJECT TOTAL	1,910	80

CONSTRUCTION STAKING

CATEGORY	STATION	TO	STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
STAGE 1							
0010	10+00'NB'	-	24+00'NB'	LT/RT	1,400	1,400	-
0010	24+00'NB'	-	49+53'NB'	LT/RT	2,553	2,553	294
0010	50+74'NB'	-	65+00'NB'	LT/RT	1,426	1,426	159
0010	65+00'NB'	-	83+57'NB'	LT/RT	1,857	1,857	-
STAGE 1 TOTALS					7,236	7,236	453
STAGE 2							
0010	11+90'SB'	-	24+00'SB'	LT/RT	1,210	1,210	-
0010	24+00'SB'	-	49+54'SB'	LT/RT	2,554	2,554	127
0010	50+75'SB'	-	65+22'SB'	LT/RT	1,447	1,447	305
0010	65+22'SB'	-	83+79'SB'	LT/RT	1,857	1,857	-
STAGE 2 TOTALS					7,068	7,068	432
CLOSURE							
0010	83+79'SB'	-	105+49'SB'	LT/RT	3,410	3,410	-
0010	105+49'TWL'	-	141+97'TWL'	LT/RT	3,648	3,648	-
0010	162+01'TWL'	-	189+43'TWL'	LT/RT	2,742	2,742	-
CLOSURE TOTALS					9,800	9,800	0
				TOTAL 0010	48,208	48,208	1,770
ROUNDABOUT							
0030	400+00 'RNB'	-	405+28 'RNB'	LT/RT	528	528	528
0030	415+09 'RNB'	-	420+11 'RNB'	LT/RT	502	502	502
0030	200+00 'AEB'	-	201+35 'AEB'	LT/RT	135	135	135
0030	301+91 'BEB'	-	304+80 'BEB'	LT/RT	289	289	289
				TOTAL 0030	1,454	1,454	1,454
				PROJECT TOTAL	49,662	49,662	3,224

Pull Boxes

Category	Station	Dir	Location	* 653.0164 Pull Boxes Non-Conductive 24x42-Inch EACH	Description
0010	66 113NB + 23	LEFT	93	1	PB1
0010	68 113NB + 23	LEFT	91	1	PB2
0010	69 113NB + 63	LEFT	89	1	PB3
0010	61 113NB + 8	RIGHT	41	1	PB4
0010	59 113NB + 5	RIGHT	41	1	PB5
0010	57 113NB + 89	RIGHT	37	1	PB6
0010	83 113NB + 34	LEFT	100	1	PB7
0010	83 113NB + 31	LEFT	38	1	PB8
0010	83 113NB + 31	LEFT	10	1	PB9
0010	85 113NB + 31	LEFT	10	1	PB10
0010	87 113NB + 31	LEFT	15	1	PB11
0010	88 113NB + 30	LEFT	24	1	PB12
0010	83 113NB + 25	RIGHT	42	1	PB13
0010	81 113NB + 79	RIGHT	50	1	PB14
0010	81 113NB + 63	LEFT	12	1	PB15
0010	81 113NB + 69	LEFT	40	1	PB16
0010	79 113NB + 54	LEFT	41	1	PB17
0010	77 113NB + 82	LEFT	28	1	PB18
0010	76 113NB + 91	LEFT	21	1	PB19
0010	81 113NB + 71	LEFT	90	1	PB20
0010	62 113NB + 97	LEFT	39	1	PB21
0010	83 113NB + 13	LEFT	127	1	PB22
			Total	**22**	

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

Signal Bases

Category	Station	Dir	Location	654.0101 Concrete Bases Type 1 EACH	654.0102 Concrete Bases Type 2 EACH	654.0120 Concrete Bases Type 10-Special EACH	Description
0010	63 + 6	RIGHT	37		1		SB1
0010	83 + 36	LEFT	38		1		SB2
0010	83 + 34	RIGHT	48			1	SB3
0010	81 + 84	LEFT	11		1		SB4
0010	81 + 63	LEFT	93			1	SB5
0010	62 + 94	LEFT	39	1			SB6
			Total	**1**	**3**	**2**	

Electrical Conduit

Category	Station	to	Station	* 652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch LF	* 652.0235 Conduit Rigid Nonmetallic Schedule 40 3-Inch LF	652.0800 Conduit Loop Detector LF	Description
0010	69 + 63					66	LOOP 21 - PB3
0010	69 + 63					90	LOOP 22 - PB3
0010	57 + 89					66	LOOP 61 - PB6
0010	57 + 89					90	LOOP 62 - PB6
0010	88 + 30					110	LOOP 21R - PB12
0010	88 + 30					85	LOOP 22R - PB12
0010	76 + 91					105	LOOP 61R - PB19
0010	76 + 91					80	LOOP 62R - PB19
0010	66 + 23	to	64 113NB + 25	199			PB1 to Existing PB101
0010	66 + 23	to	68 113NB + 23	201			PB1 to PB2
0010	68 + 23	to	69 113NB + 63	141			PB2 to PB3
0010	61 + 08	to	63 113NB + 12	205			PB4 to Existing PB104
0010	61 + 08	to	59 113NB + 05	203			PB4 to PB5
0010	59 + 05	to	57 113NB + 89	117			PB5 to PB6
0010	83 + 34	to	83 113NB + 31		125		PB7 to PB8
0010	83 + 31	to	83 113NB + 31		56		PB8 to PB9
0010	83 + 31	to	83 113NB + 25		105		PB9 to PB13
0010	81 + 79	to	81 113NB + 63		129		PB14 to PB15
0010	81 + 63	to	81 113NB + 69		58		PB15 to PB16
0010	81 + 69	to	81 113NB + 71		101		PB16 to PB20
0010	83 + 31	to	85 113NB + 31	200			PB9 to PB10
0010	85 + 31	to	87 113NB + 31	201			PB10 to PB11
0010	87 + 31	to	88 113NB + 30	100			PB11 to PB12
0010	81 + 69	to	79 113NB + 54	216			PB16 to PB17
0010	79 + 54	to	77 113NB + 82	173			PB17 to PB18
0010	77 + 82	to	76 113NB + 91	92			PB18 to PB19
0010	63 + 06	to	63 113NB + 12	7			SB1 to Existing PB104
0010	83 + 31	to	83 113NB + 36	5			PB8 to SB2
0010	83 + 25	to	83 113NB + 34		11		PB13 to SB3
0010	81 + 63	to	81 113NB + 84	22			PB15 to SB4
0010	81 + 71	to	81 113NB + 63		9		PB20 to SB5
0010	62 + 97	to	62 113NB + 95		105		PB21 to Existing PB106
0010	62 + 97	to	63 113NB + 12		161		PB21 to Existing PB104
0010	62 + 97	to	62 113NB + 94	3			PB21 to SB6
			Total	**2085**	**860**	**692**	

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

Electrical Items

Category	Station	Dir	Location	650.8501.01 Construction Staking Electrical Installations 5420-02-72 EACH	658.5070.01 Signal Mounting Hardware (STH 113 & CTH M) EACH	658.5070.02 Signal Mounting Hardware (STH 113 & River Road) EACH	204.9060.S.01 Removing Traffic Signals STH 113 & CTH M EACH	204.9060.S.02 Removing Traffic Signals STH 113 & River Road EACH	661.0201.01 Temporary Traffic Signals for Intersections (STH 113 & CTH M) EACH	659.5000.S Lamp, Ballast, LED, Switch Disposal by Contractor EACH	Description
0010	64 + 34	LEFT	115	1	1	1	1	1	1	11	Project
			Total	**1**	**1**	**1**	**1**	**1**	**1**	**11**	

Poles, Arms & Equipment

Category	Station	Dir	Location	657.0352 Poles Type 10 Special EACH	657.0546 Monotube Arms 45-FT Special EACH	657.0815 Luminaire Arms Steel 15-FT EACH	657.0820 Luminaire Arms Steel Type 10 Pole Clamp 15-FT EACH	657.0100 Pedestal Bases EACH	* 657.0255 Transformer Bases Breakaway 11 1/2 Inch Bolt Circle EACH	657.0420 Traffic Signal Standard Aluminum 13' EACH	657.0305 Poles Type 2 EACH	657.0315 Poles Type 4 EACH	657.0585 Trombone Arms 15-FT EACH	657.0709 Luminaire Arms Truss Member 4-Inch Clamp 12-FT EACH	658.0173 Traffic Signal Face 3S 12-Inch EACH	658.0174 Traffic Signal Face 4S 12-Inch EACH	SPV.0060.01 Retroreflective Backplate 3S EACH	SPV.0060.02 Retroreflective Backplate 4S EACH	658.0500 Pedestrian Push Button EACH	658.0416 Pedestrian Signal Face Ped 16-inch EACH	659.1125 Luminaires Utility LED C EACH	Desc
0010	63 + 6	RIGHT	37						1			1		1	2				1	1	1	SB1
0010	83 + 36	LEFT	38						1		1		1			1		1				SB2
0010	83 + 34	RIGHT	48	1	1	1	1								2		2				1	SB3
0010	81 + 84	LEFT	11						1		1		1			1		1				SB4
0010	81 + 63	LEFT	93	1	1	1	1								2		2				1	SB5
0010	83 + 44	LEFT	96													1		1				Existing SB103
0010	81 + 68	RIGHT	44													1		1				Existing SB108
0010	62 + 94	LEFT	39					1		1					2				1			SB6
			Total	**2**	**2**	**2**	**2**	**1**	**3**	**1**	**2**	**1**	**2**	**1**	**8**	**4**	**4**	**4**	**2**	**1**	**3**	

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

Removals

Category	Station	Dir	Location	653.0900 Adjusting Pull Box EACH	653.0905 Removing Pull Box EACH	204.0195 Removing Concrete Bases EACH	SPV.0060.03 Adjusting Concrete Bases EACH	Description
0010	64 113NB + 25	LEFT	106	1				Existing PB101
0010	64 113NB + 28	LEFT	30	1				Existing PB102
0010	64 113NB + 16	RIGHT	38	1				Existing PB103
0010	63 113NB + 12	RIGHT	40	1				Existing PB104
0010	82 113NB + 56	LEFT	144	1				Existing PB110
0010	83 113NB + 7	LEFT	134	1				Existing PB111
0010	83 113NB + 37	LEFT	96		1			Existing PB112
0010	83 113NB + 35	LEFT	27		1			Existing PB113
0010	83 113NB + 20	RIGHT	43	1				Existing PB114
0010	82 113NB + 69	RIGHT	99	1				Existing PB115
0010	82 113NB + 72	RIGHT	84		1			Existing PB116
0010	82 113NB + 10	RIGHT	87	1				Existing PB117
0010	81 113NB + 80	RIGHT	46		1			Existing PB118
0010	81 113NB + 81	LEFT	22		1			Existing PB119
0010	81 113NB + 83	LEFT	93	1				Existing PB120
0010	62 113NB + 94	LEFT	41		1			Existing PB105
0010	62 113NB + 95	LEFT	91	1				Existing PB106
0010	63 113NB + 6	RIGHT	37			1		Existing SB100
0010	82 113NB + 44	LEFT	114				1	Existing SB101
0010	83 113NB + 9	LEFT	140				1	Existing SB102
0010	83 113NB + 44	LEFT	96				1	Existing SB103
0010	83 113NB + 15	LEFT	26			1		Existing SB104
0010	83 113NB + 17	RIGHT	43			1		Existing SB105
0010	82 113NB + 78	RIGHT	69				1	Existing SB106
0010	82 113NB + 4	RIGHT	74				1	Existing SB107
0010	81 113NB + 68	RIGHT	44				1	Existing SB108
0010	82 113NB + 6	LEFT	29			1		Existing SB109
0010	82 113NB + 10	LEFT	94			1		Existing SB110
0010	63 113NB + 7	LEFT	40			1		Existing SB99
			Total	**11**	**6**	**6**	**6**	

Signal Wire

Category	Station	to Station	655.0210 Cable Traffic Signal 3-14 AWG LF	655.0230 Cable Traffic Signal 5-14 AWG LF	655.0240 Cable Traffic Signal 7-14 AWG LF	655.0250 Cable Traffic Signal 9-14 AWG LF	655.0260 Cable Traffic Signal 12-14 AWG LF	655.0305 Cable Type UF 2-12 AWG Grounded LF	655.0515 Electrical Wire Traffic Signals 10 AWG LF	655.0610* Electrical Wire Traffic Lighting 12 AWG LF	655.0700 Loop Dectector Lead in Cable LF	655.0800 Loop Detector Wire LF	Description
0010	069 113NB + 63											274	PB3 LOOP 21
0010	069 113NB + 63											370	PB3 LOOP 22
0010	057 113NB + 89											274	PB6 LOOP 61
0010	057 113NB + 89											370	PB6 LOOP 62
0010	088 113NB + 30											450	PB12 LOOP 21R
0010	088 113NB + 30											350	PB12 LOOP 22R
0010	076 113NB + 91											430	PB19 LOOP 61R
0010	076 113NB + 91											330	PB19 LOOP 62R
0010	63 113NB + 6		15	40						150			SB1 - Up Pole
0010	83 113NB + 36			42									SB2 - Up Pole
0010	83 113NB + 34			134						159			SB3 - Up Pole
0010	81 113NB + 84			42									SB4 - Up Pole
0010	81 113NB + 63			134						159			SB5 - Up Pole
0010	83 113NB + 44			18									Existing SB103 - Up Pole
0010	81 113NB + 68			18									Existing SB108 - Up Pole
0010	62 113NB + 94			36									SB6 - Up Pole
0010	064 113NB + 34	to 063 113NB + 6				323							Existing SC1 to SB1
0010	064 113NB + 34	to 062 113NB + 94					241						Existing SC1 to SB6
0010	082 113NB + 16	to 083 113NB + 36			267								Existing SC2 to SB2
0010	082 113NB + 16	to 083 113NB + 34			359								Existing SC2 to SB3
0010	082 113NB + 16	to 081 113NB + 84			205								Existing SC2 to SB4
0010	082 113NB + 16	to 081 113NB + 63			92								Existing SC2 to SB5
0010	064 113NB + 34	to 063 113NB + 6						323					Existing SC1 to SB1
0010	082 113NB + 16	to 083 113NB + 34						359					Existing SC2 to SB3
0010	082 113NB + 16	to 081 113NB + 63						92					Existing SC2 to SB5
0010	064 113NB + 34	to 063 113NB + 6									323		Existing SC1 to SB1
0010	064 113NB + 34	to 062 113NB + 94									241		Existing SC1 to SB6
0010	064 113NB + 34	to 069 113NB + 63									601		Existing SC1 to PB3
0010	064 113NB + 34	to 069 113NB + 63									601		Existing SC1 to PB3
0010	064 113NB + 34	to 057 113NB + 89									867		Existing SC1 to PB6
0010	064 113NB + 34	to 057 113NB + 89									867		Existing SC1 to PB6
0010	082 113NB + 16	to 088 113NB + 30									827		Existing SC2 to PB12
0010	082 113NB + 16	to 088 113NB + 30									827		Existing SC2 to PB12
0010	082 113NB + 16	to 076 113NB + 91									651		Existing SC2 to PB19
0010	082 113NB + 16	to 076 113NB + 91									651		Existing SC2 to PB19
0010	063 113NB + 12	to 063 113NB + 6							21				Existing PB104 to SB1 Grounding Conductor
0010	082 113NB + 16	to 083 113NB + 36							411				Existing SC2 to SB2 Grounding Conductor
0010	083 113NB + 36	to 083 113NB + 34							135				SB2 to SB3 Grounding Conductor
0010	083 113NB + 34	to 081 113NB + 79							450				SB3 to PB14 Grounding Conductor
0010	081 113NB + 79	to 081 113NB + 84							111				PB14 to SB4 Grounding Conductor
0010	081 113NB + 84	to 081 113NB + 63							149				SB4 to SB5 Grounding Conductor
0010	081 113NB + 63	to 082 113NB + 16							92				SB5 to Existing SC2 Grounding Conductor
0010	064 113NB + 34	to 062 113NB + 94							241				Existing SC1 to SB6 Grounding Conductor
0010	082 113NB + 16	to 083 113NB + 44					200						Existing SC2 to Existing SB103
0010	082 113NB + 16	to 082 113NB + 78				485							Existing SC2 to Existing SB106
0010	082 113NB + 16	to 082 113NB + 4				332							Existing SC2 to Existing SB107
0010	082 113NB + 16	to 081 113NB + 68					271						Existing SC2 to Existing SB108
0010	081 113NB + 63	to 082 113NB + 4						276					SB5 to Existing SB107
		Total	**15**	**464**	**923**	**1140**	**712**	**1050**	**1610**	**468**	**6456**	**2848**	

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

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PWL MIXTURE USE TABLE, CATEGORY 10

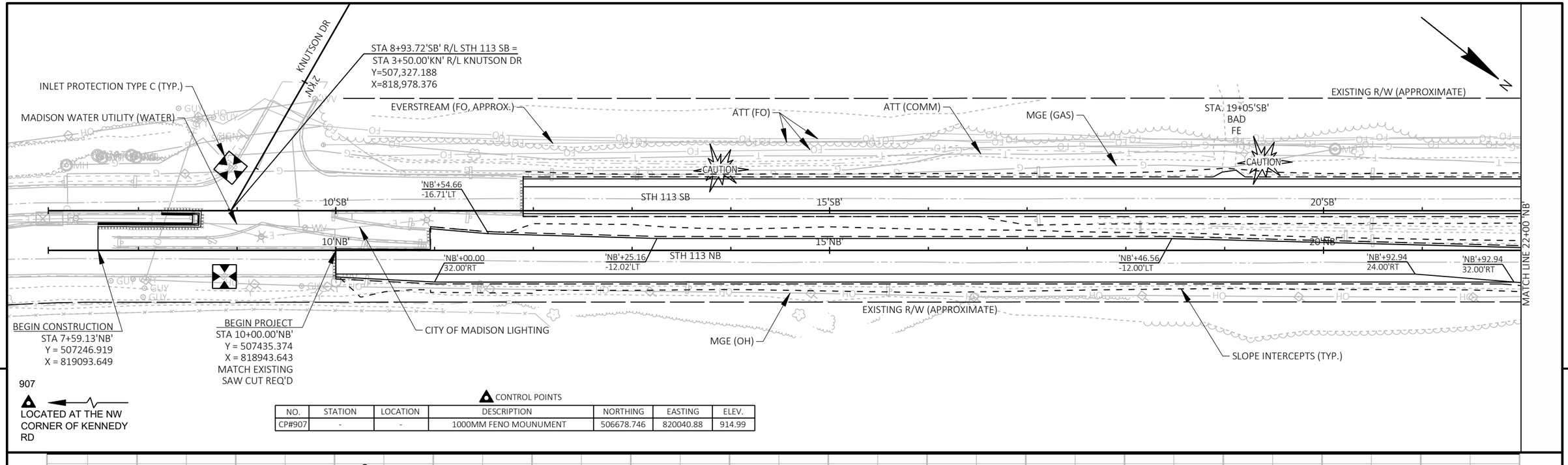
LOCATION	STATION	TO STATION	LOCATION	MIXTURE TYPE	UNDERLAYING SURFACE	BID ITEM	TONS	THICKNESS (IN)	QUALITY MANAGEMENT PROGRAM TO BE USED FOR:	
									MIXTURE ACCEPTANCES	DENSITY ACCEPTANCES
24 FOOT DRIVING LANES	10+00'NB'	83+57'NB'	NB LANES	LOWER LAYER	BASE AGGREGATE	3 MT 58-28 S	3780	3.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
24 FOOT DRIVING LANES	10+00'NB'	83+57'NB'	NB LANES	UPPER LAYER	LOWER LAYER HMA 3 MT 58-28 S	4 MT 58-28 S	2700	2.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
SHOULDERS (3 FOOT & 8 FOOT TYP.) AND AUX LANES	10+00'NB'	83+57'NB'	NB LANES	LOWER LAYER	BASE AGGREGATE	3 MT 58-28 S	2380	3.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
SHOULDERS (3 FOOT & 8 FOOT TYP.) AND AUX LANES	10+00'NB'	83+57'NB'	NB LANES	UPPER LAYER	LOWER LAYER HMA 3 MT 58-28 S	4 MT 58-28 S	1669	2.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
TURN LANES	50+74'NB'	83+57'NB'	NB LANES	LOWER LAYER	BASE AGGREGATE	3 MT 58-28 S	464	3.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
TURN LANES	50+74'NB'	83+57'NB'	NB LANES	UPPER LAYER	LOWER LAYER HMA 3 MT 58-28 S	4 MT 58-28 S	331	2.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
24 FOOT DRIVING LANES	11+90'SB'	83+79'SB'	SB LANES	LOWER LAYER	BASE AGGREGATE	3 MT 58-28 S	3698	3.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
24 FOOT DRIVING LANES	11+90'SB'	83+79'SB'	SB LANES	UPPER LAYER	LOWER LAYER HMA 3 MT 58-28 S	4 MT 58-28 S	2641	2.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
SHOULDERS (3 FOOT & 8 FOOT TYP.) AND AUX LANES	11+90'SB'	83+79'SB'	SB LANES	LOWER LAYER	BASE AGGREGATE	3 MT 58-28 S	2038	3.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
SHOULDERS (3 FOOT & 8 FOOT TYP.) AND AUX LANES	11+90'SB'	83+79'SB'	SB LANES	UPPER LAYER	LOWER LAYER HMA 3 MT 58-28 S	4 MT 58-28 S	1418	2.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
TURN LANES	50+75'SB'	83+79'SB'	SB LANES	LOWER LAYER	BASE AGGREGATE	3 MT 58-28 S	100	3.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
TURN LANES	50+75'SB'	83+79'SB'	SB LANES	UPPER LAYER	LOWER LAYER HMA 3 MT 58-28 S	4 MT 58-28 S	71	2.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
VARIES 12 FOOT TO 24 FOOT DRIVING LANES	83+79'SB'	105+49'SB'	NB LANES	LOWER LAYER	BASE AGGREGATE	3 MT 58-28 S	1044	3.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
VARIES 12 FOOT TO 24 FOOT DRIVING LANES	83+79'SB'	105+49'SB'	NB LANES	UPPER LAYER	LOWER LAYER HMA 3 MT 58-28 S	4 MT 58-28 S	746	2.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
SHOULDERS (3 FOOT & 8 FOOT TYP.) AND AUX LANES	83+79'SB'	105+49'SB'	NB LANES	LOWER LAYER	BASE AGGREGATE	3 MT 58-28 S	530	3.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
SHOULDERS (3 FOOT & 8 FOOT TYP.) AND AUX LANES	83+79'SB'	105+49'SB'	NB LANES	UPPER LAYER	LOWER LAYER HMA 3 MT 58-28 S	4 MT 58-28 S	374	2.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE

CONTINUED ON NEXT PAGE

3

PWL MIXTURE USE TABLE, CATEGORY 10

LOCATION	STATION	TO STATION	LOCATION	MIXTURE TYPE	UNDERLAYING SURFACE	BID ITEM	TONS	THICKNESS (IN)	QUALITY MANAGEMENT PROGRAM TO BE USED FOR:	
									MIXTURE ACCEPTANCES	DENSITY ACCEPTANCES
VARIES 12 FOOT TO 24 FOOT DRIVING LANES	83+79'SB'	105+49'SB'	SB LANES	LOWER LAYER	BASE AGGREGATE	3 MT 58-28 S	911	3.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
VARIES 12 FOOT TO 24 FOOT DRIVING LANES	83+79'SB'	105+49'SB'	SB LANES	UPPER LAYER	LOWER LAYER HMA 3 MT 58-28 S	4 MT 58-28 S	650	2.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
TURN LANES	83+79'SB'	105+49'SB'	SB LANES	LOWER LAYER	BASE AGGREGATE	3 MT 58-28 S	237	3.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
TURN LANES	83+79'SB'	105+49'SB'	SB LANES	UPPER LAYER	LOWER LAYER HMA 3 MT 58-28 S	4 MT 58-28 S	169	2.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
SHOULDERS (3 FOOT & 8 FOOT TYP.) AND AUX LANES	83+79'SB'	105+49'SB'	SB LANES	LOWER LAYER	BASE AGGREGATE	3 MT 58-28 S	498	3.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
SHOULDERS (3 FOOT & 8 FOOT TYP.) AND AUX LANES	83+79'SB'	105+49'SB'	SB LANES	UPPER LAYER	LOWER LAYER HMA 3 MT 58-28 S	4 MT 58-28 S	351	2.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
12 FOOT DRIVING LANES	105+49'TWL'	141+97'TWL'	NB & SB LANES	LOWER LAYER	BASE AGGREGATE	3 MT 58-28 S	1907	3.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
12 FOOT DRIVING LANES	105+49'TWL'	141+97'TWL'	NB & SB LANES	UPPER LAYER	LOWER LAYER HMA 3 MT 58-28 S	4 MT 58-28 S	1362	2.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
SHOULDERS (8 FOOT TYP.)	105+49'TWL'	141+97'TWL'	NB & SB LANES	LOWER LAYER	BASE AGGREGATE	3 MT 58-28 S	1271	3.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
SHOULDERS (8 FOOT TYP.)	105+49'TWL'	141+97'TWL'	NB & SB LANES	UPPER LAYER	LOWER LAYER HMA 3 MT 58-28 S	4 MT 58-28 S	908	2.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
VARIES 12 FOOT TO 24 FOOT DRIVING LANES	162+01'TWL'	189+43'TWL'	NB & SB LANES	LOWER LAYER	BASE AGGREGATE	3 MT 58-28 S	1785	3.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
VARIES 12 FOOT TO 24 FOOT DRIVING LANES	162+01'TWL'	189+43'TWL'	NB & SB LANES	UPPER LAYER	LOWER LAYER HMA 3 MT 58-28 S	4 MT 58-28 S	1275	2.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	INCENTIVE DENSITY PWL HMA PAVEMENT 460.2005
SHOULDERS (3 FOOT & 8 FOOT TYP.) AND AUX LANES	162+01'TWL'	189+43'TWL'	NB & SB LANES	LOWER LAYER	BASE AGGREGATE	3 MT 58-28 S	1181	3.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
SHOULDERS (3 FOOT & 8 FOOT TYP.) AND AUX LANES	162+01'TWL'	189+43'TWL'	NB & SB LANES	UPPER LAYER	LOWER LAYER HMA 3 MT 58-28 S	4 MT 58-28 S	833	2.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
VARIOUS	SIDEROADS			LOWER LAYER	BASE AGGREGATE	3 MT 58-28 S	547	3.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE
VARIOUS	SIDEROADS			UPPER LAYER	LOWER LAYER HMA 3 MT 58-28 S	4 MT 58-28 S	391	2.5	PWL INCENTIVE AIR VOIDS HMA PAVEMENT 460.2010	ACCEPTANCE TESTING BY THE DEPARTMENT; NOT ELIGIBLE FOR INCENTIVE

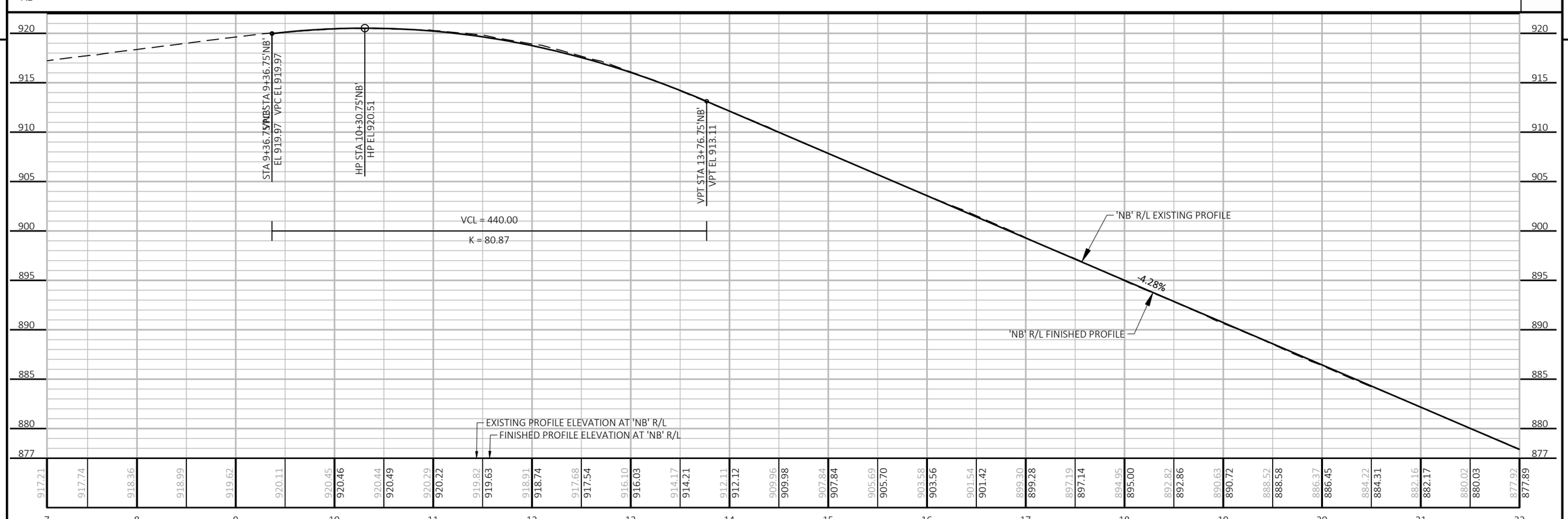


907

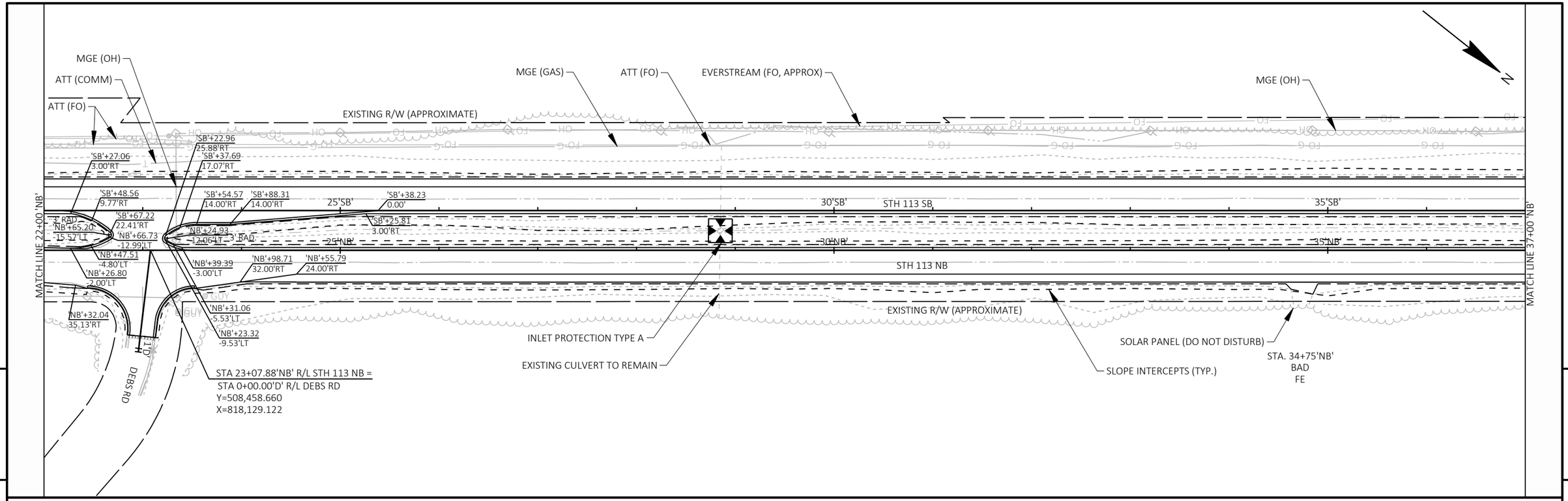
LOCATED AT THE NW CORNER OF KENNEDY RD

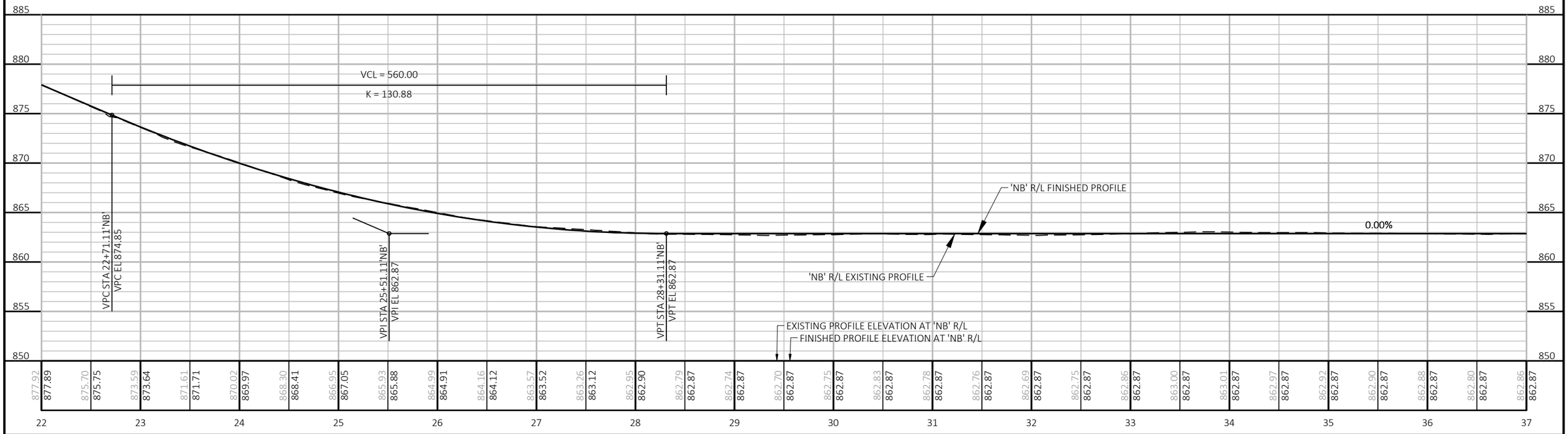
CONTROL POINTS

NO.	STATION	LOCATION	DESCRIPTION	NORTHING	EASTING	ELEV.
CP#907	-	-	1000MM FENO MOUNUMENT	506678.746	820040.88	914.99

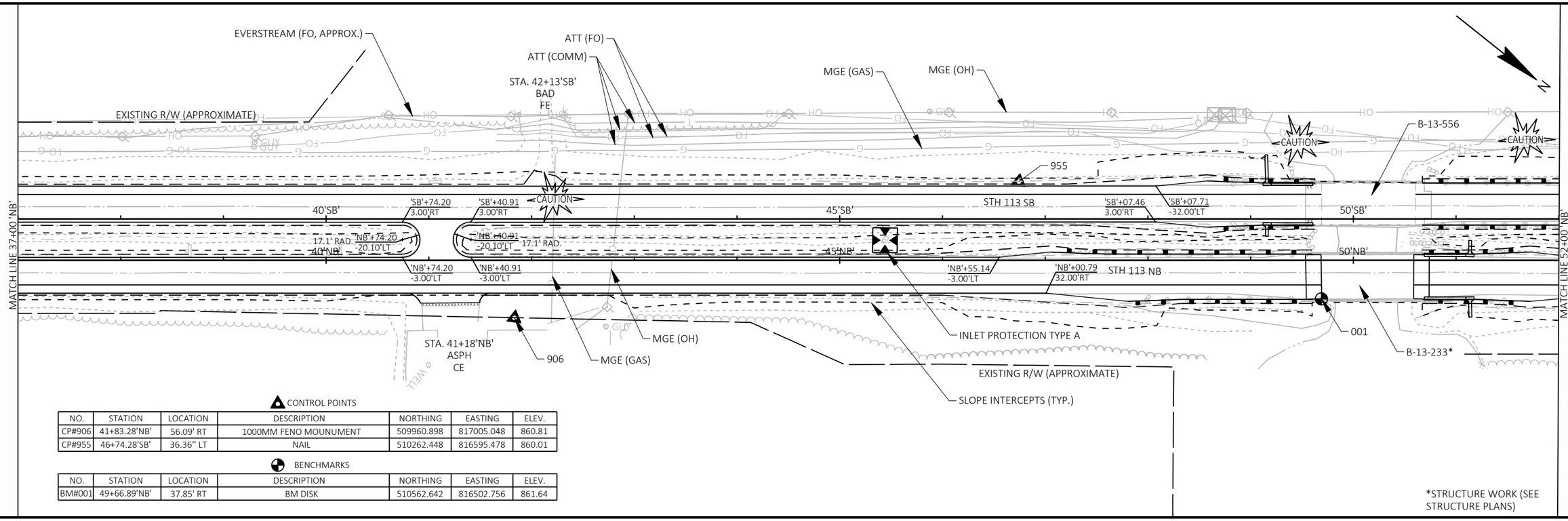


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: STH 113 NB	SHEET 187	E





PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: STH 113 NB	SHEET 188	E



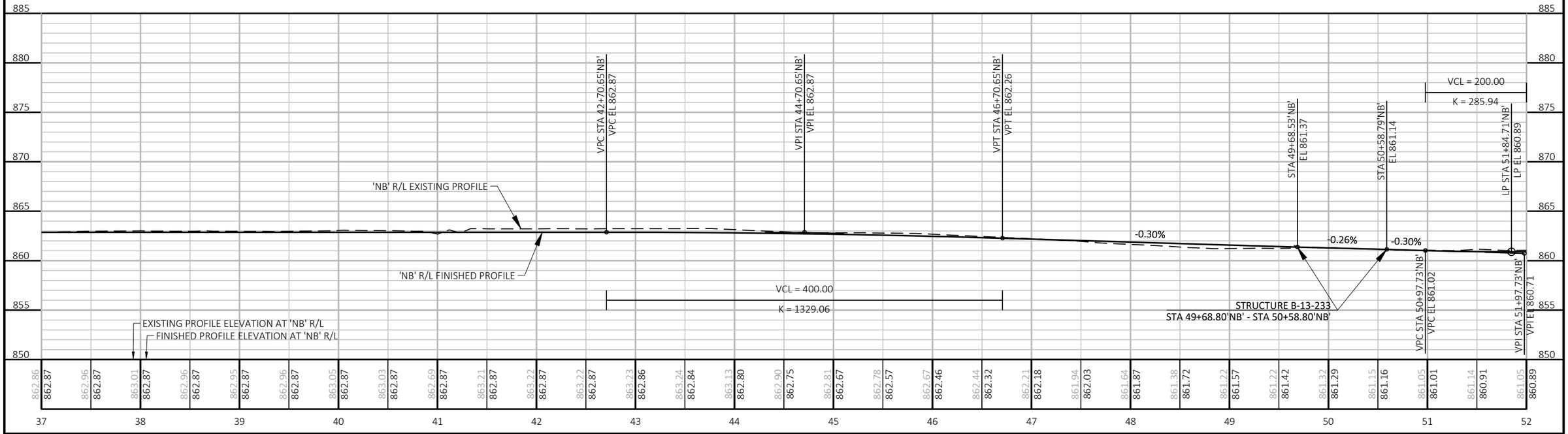
CONTROL POINTS

NO.	STATION	LOCATION	DESCRIPTION	NORTHING	EASTING	ELEV.
CP#906	41+83.28'NB'	56.09' RT	1000MM FENO MOUNUMENT	509960.898	817005.048	860.81
CP#955	46+74.28'SB'	36.36'' LT	NAIL	510262.448	816595.478	860.01

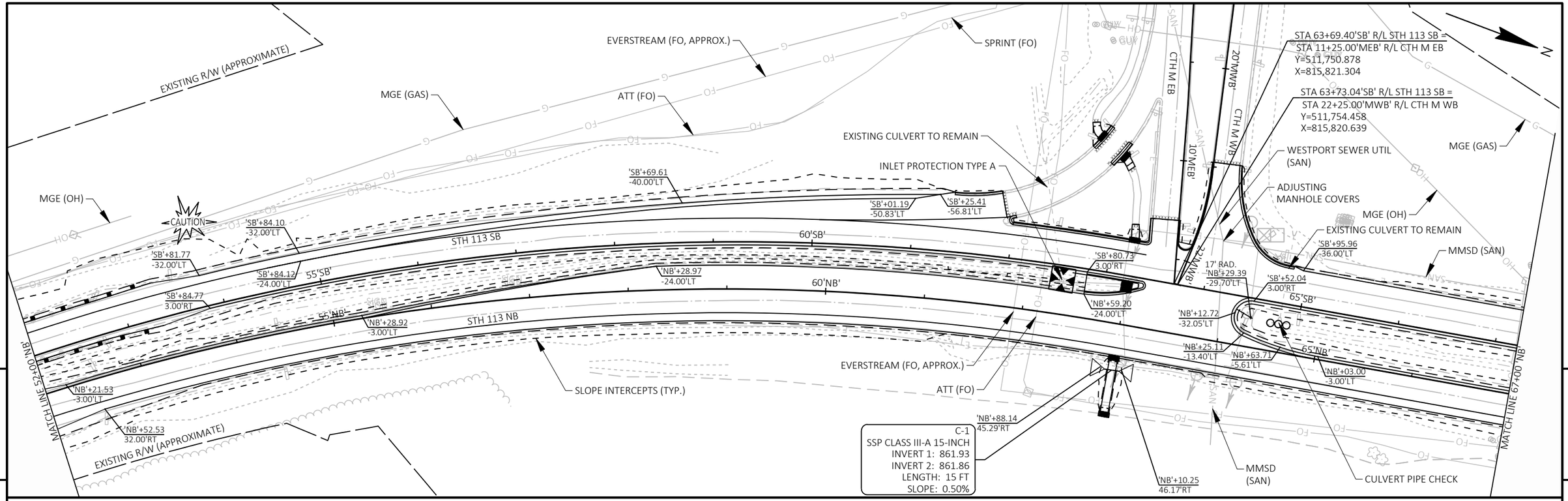
BENCHMARKS

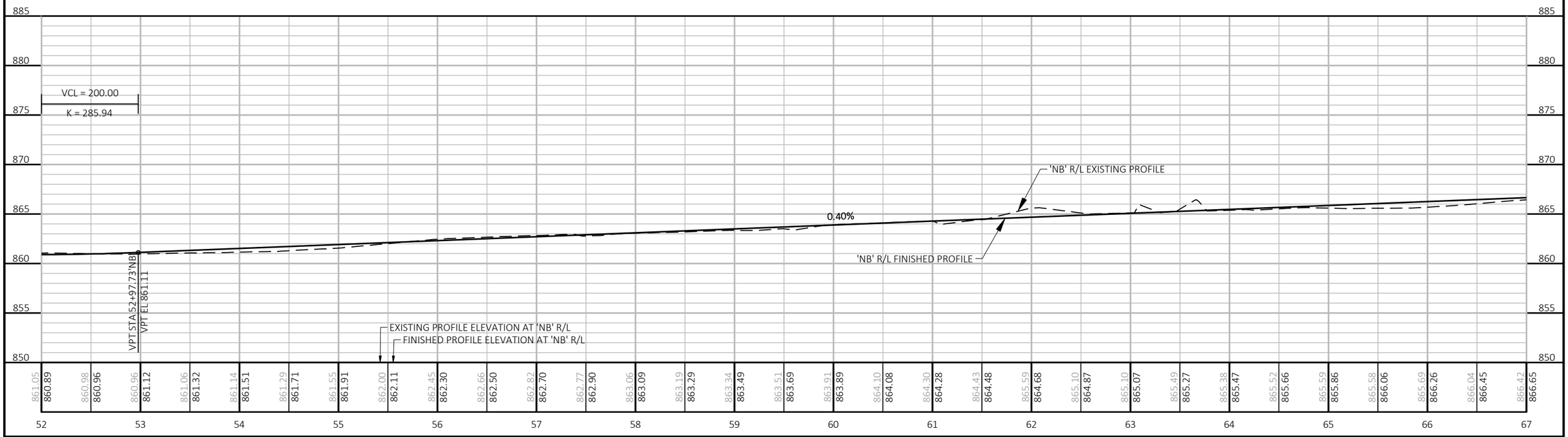
NO.	STATION	LOCATION	DESCRIPTION	NORTHING	EASTING	ELEV.
BM#001	49+66.89'NB'	37.85' RT	BM DISK	510562.642	816502.756	861.64

*STRUCTURE WORK (SEE STRUCTURE PLANS)



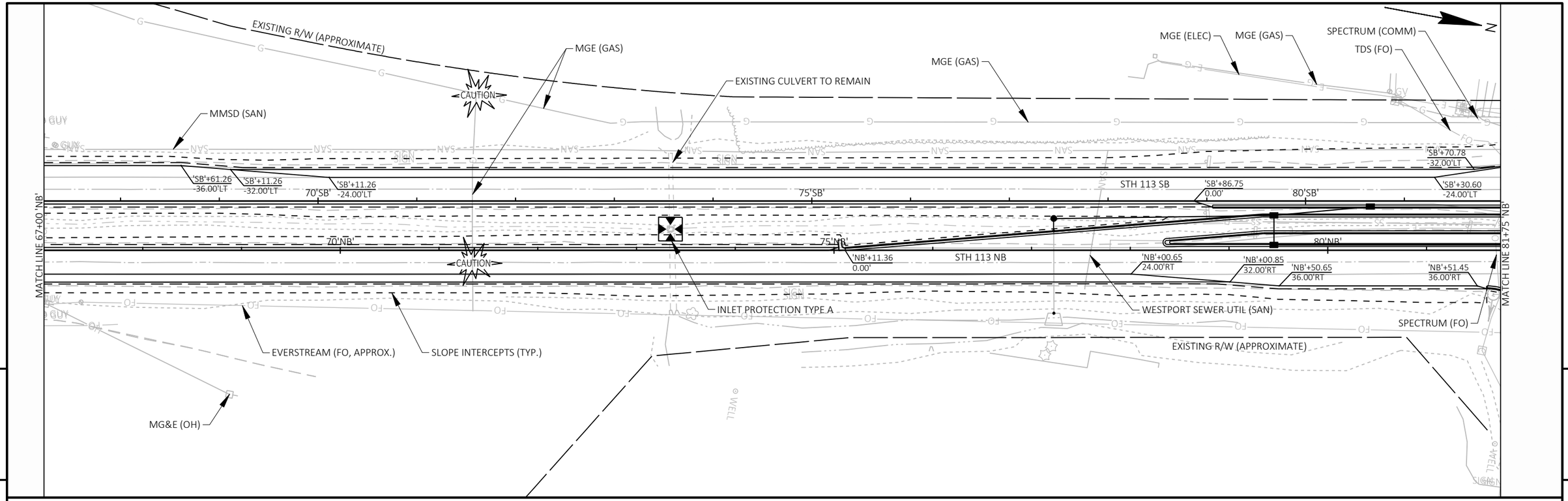
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: STH 113 NB	SHEET 189	E

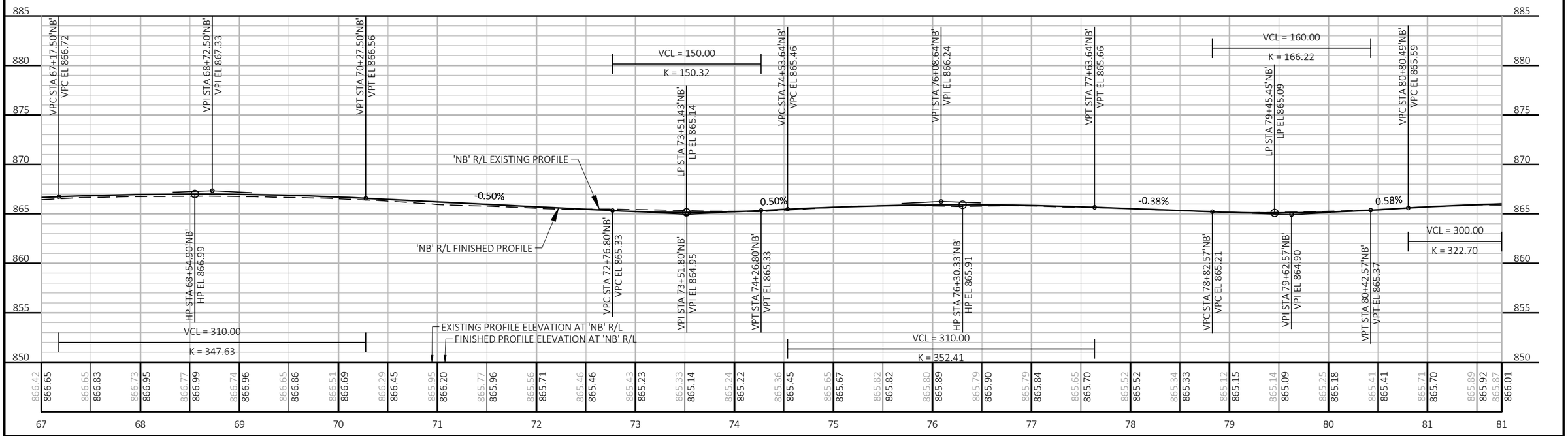




PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: STH 113 NB	SHEET 190	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\050101-PP-NB.DWG
LAYOUT NAME - NB - (8)
PLOT DATE : 10/27/2022 2:11 PM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44





PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: STH 113 NB	SHEET 191	E

MMSD (SAN)
MGE (ELEC)
STA 1+33'WRR' ASPH CE
ATC (OH)
MGE (GAS)
ADJUSTING MANHOLE COVERS
STA 82+84.87'SB' R/L STH 113 SB =
STA 2+58.11'WRR' R/L W RIVER RD
Y=513,634.105
X=815,471.300
MGE (GAS)
EXISTING R/W (APPROXIMATE)
EXISTING CULVERT TO REMAIN
N
W RIVER RD
CAUTION
'WRR'
'SB'+90.86 -36.00'LT
'SB'+84.91 -36.00'LT
'SB'+34.71 -32.00'LT
'SB'+34.91 -24.00'LT
'SB'+40.35 -24.00'LT
'SB'+80.89 -32.00'LT
85'SB'
90'SB'
'SB'+40.75 0.00'
STH 113 SB
95'SB'
'SB'+13.13 3.00'RT
'SB'+17.70 3.00'RT
95'NB'
90'NB'
MATCH LINE 81+75 'NB'
MATCH LINE 96+00 'NB'
CAUTION
TDS (FO)
'NB'+17.23 24.00'RT
'NB'+45.87 -3.00'LT
'NB'+55.41 0.00'
'NB'+82.72 -3.00'LT
'NB'+92.08 -7.19'LT
'NB'+96.50 -8.26'LT
STH 113 NB
'NB'+77.18 32.00'RT
WESTPORT WATER UTILITY (WATER, APPROX.)
SLOPE INTERCEPTS (TYP.)
EXISTING R/W (APPROXIMATE)
EVERSTREAM (FO, APPROX.)
STA 82+57.09'NB' R/L STH 113 NB =
STA 0+00.00'ERR' R/L E RIVER RD
Y=513,637.981
X=815,521.246
'ERR'
RIVER RD
MGE (GAS)
SPECTRUM (FO)
TDS (COMM)
ATC (OH)

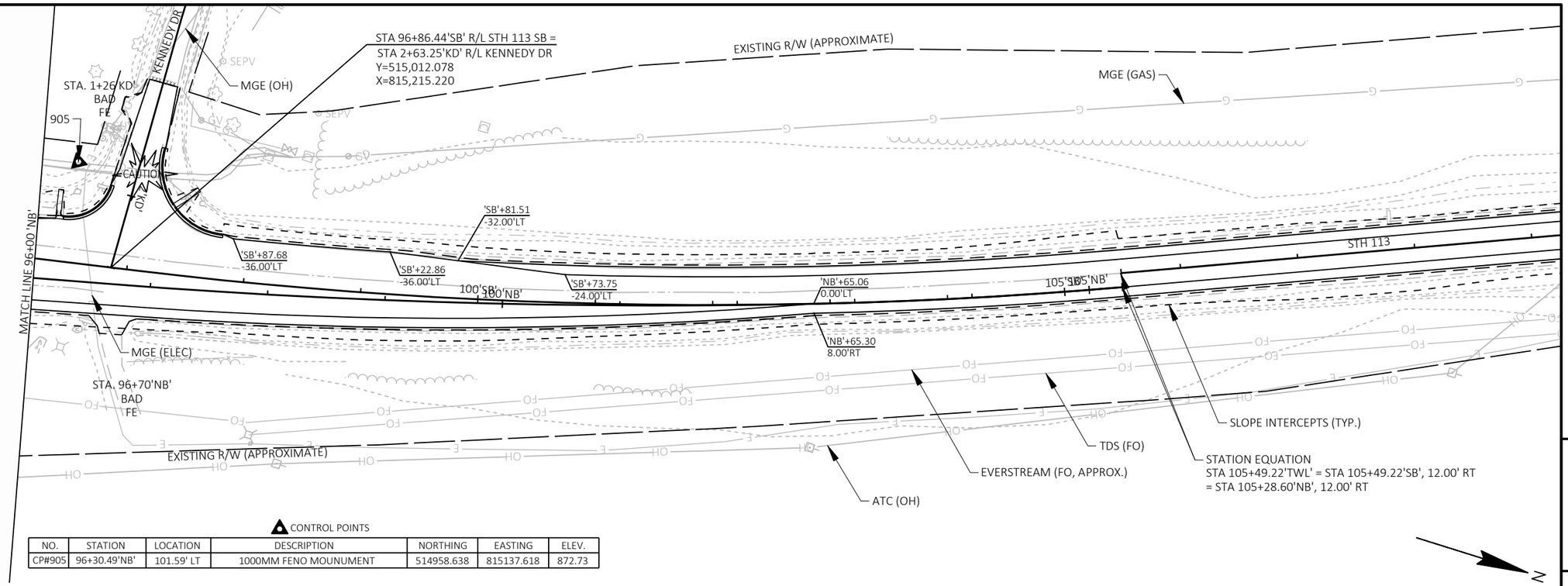
5

5

885
880
875
870
865
860
855
850

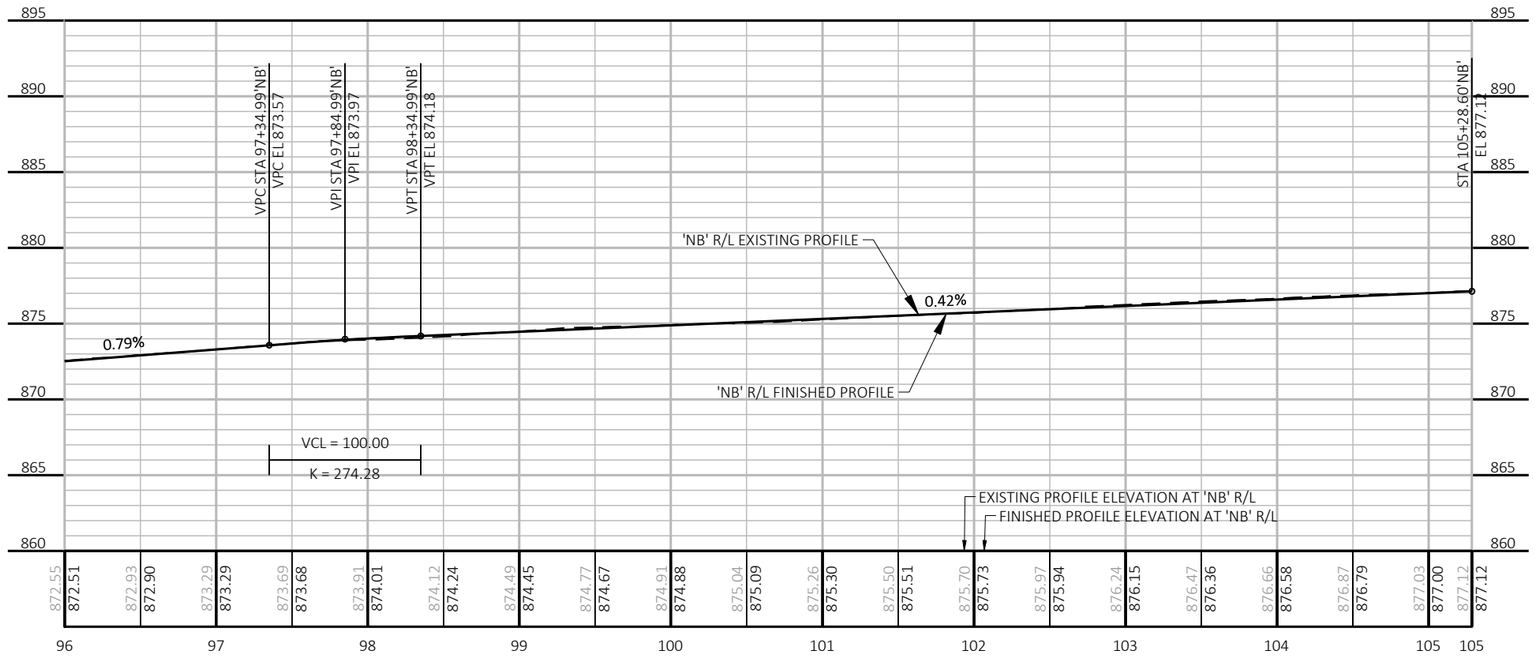
VPI STA 82+30.49'NB'
VPI EL 866.47
VPT STA 83+80.49'NB'
VPT EL 865.95
VCL = 200.63
K = 203.93
LP STA 84+91.94'NB'
LP EL 865.69
VCL = 100.00
K = 663.69
'NB' R/L EXISTING PROFILE
0.64%
-0.35%
'NB' R/L FINISHED PROFILE
HP STA 82+69.04'NB'
HP EL 866.14
VPC STA 84+21.51'NB'
VPC EL 865.81
VPI STA 85+21.83'NB'
VPI EL 865.46
VPT STA 86+22.14'NB'
VPT EL 866.10
VPC STA 94+44.22'NB'
VPC EL 871.35
VPI STA 94+94.22'NB'
VPI EL 871.67
VPT STA 95+44.22'NB'
VPT EL 872.07
VCL = 300.00
K = 322.70
EXISTING PROFILE ELEVATION AT 'NB' R/L
FINISHED PROFILE ELEVATION AT 'NB' R/L

| | | |



CONTROL POINTS

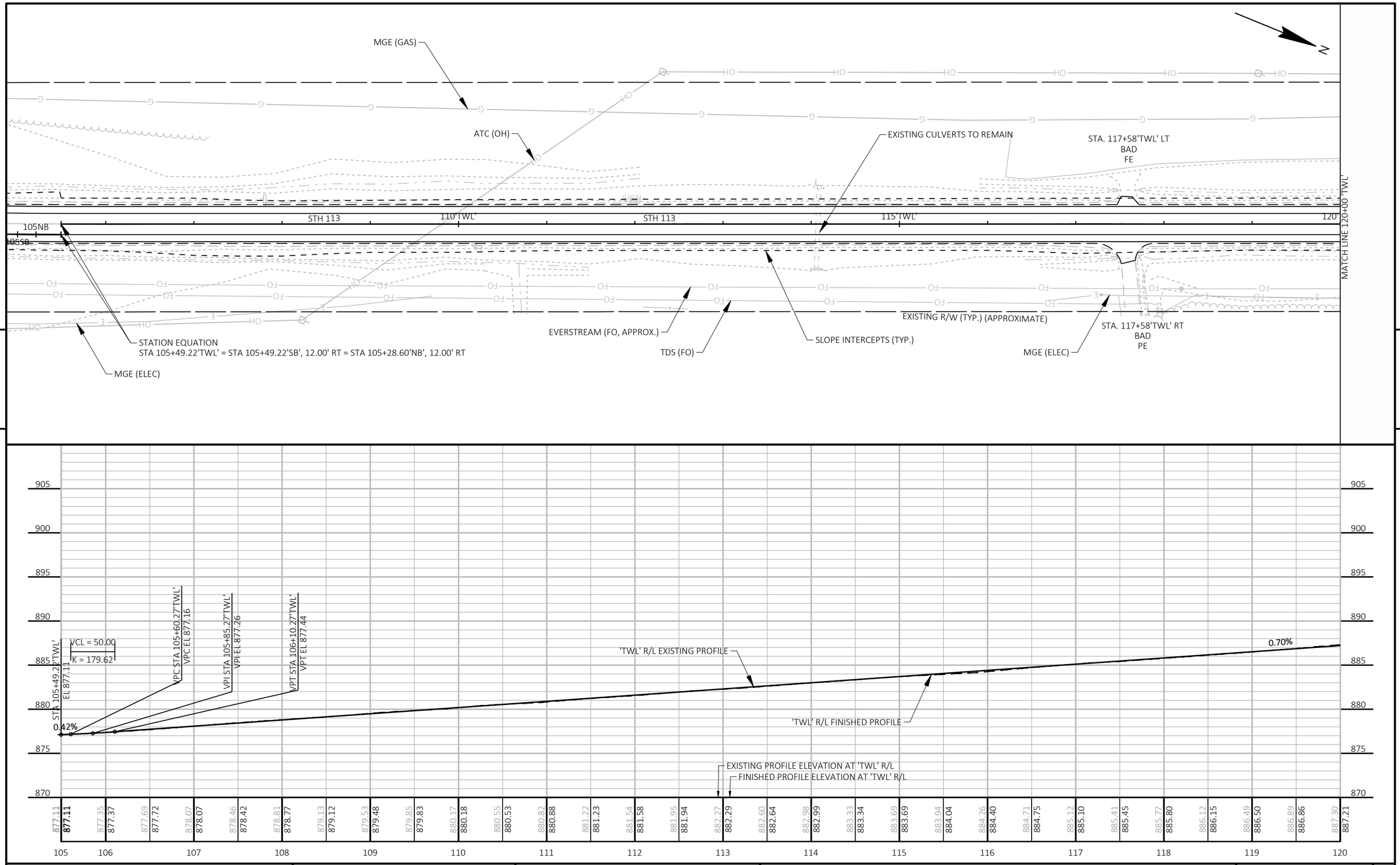
NO.	STATION	LOCATION	DESCRIPTION	NORTHING	EASTING	ELEV.
CP#905	96+30.49'NB'	101.59' LT	1000MM FENO MOUNUMENT	514958.638	815137.618	872.73



PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: STH 113 NB	SHEET 193	E

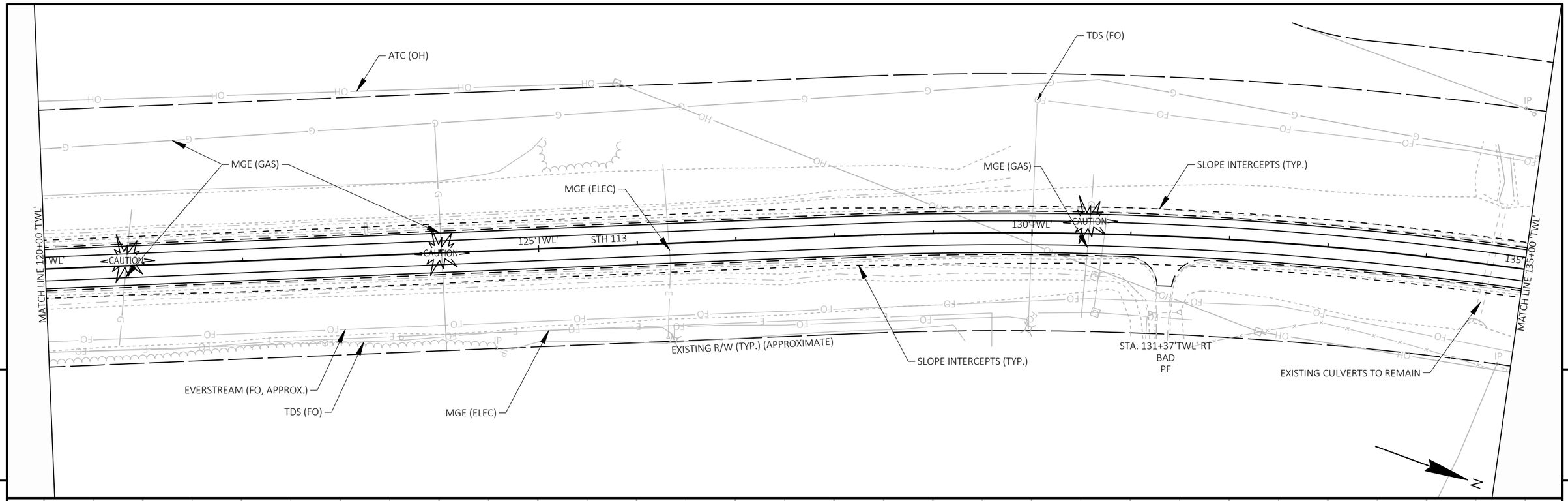
FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\050101-PP-NB.DWG
LAYOUT NAME - NB - (11)

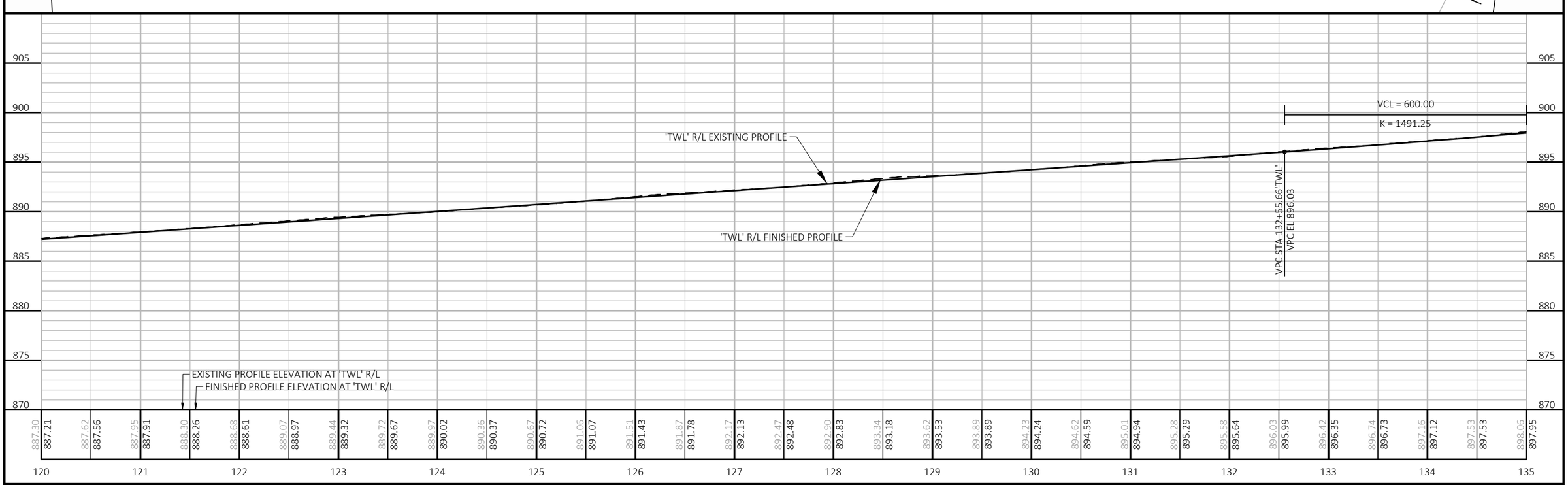
PLOT DATE : 10/27/2022 2:11 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:100 FT



PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: STH 113 TWO-LANE	SHEET 194	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\050102-PP-TWL.DWG
LAYOUT NAME - TWL - (5)
PLOT DATE : 10/31/2022 1:53 PM
PLOT BY : NATHAN COOK
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



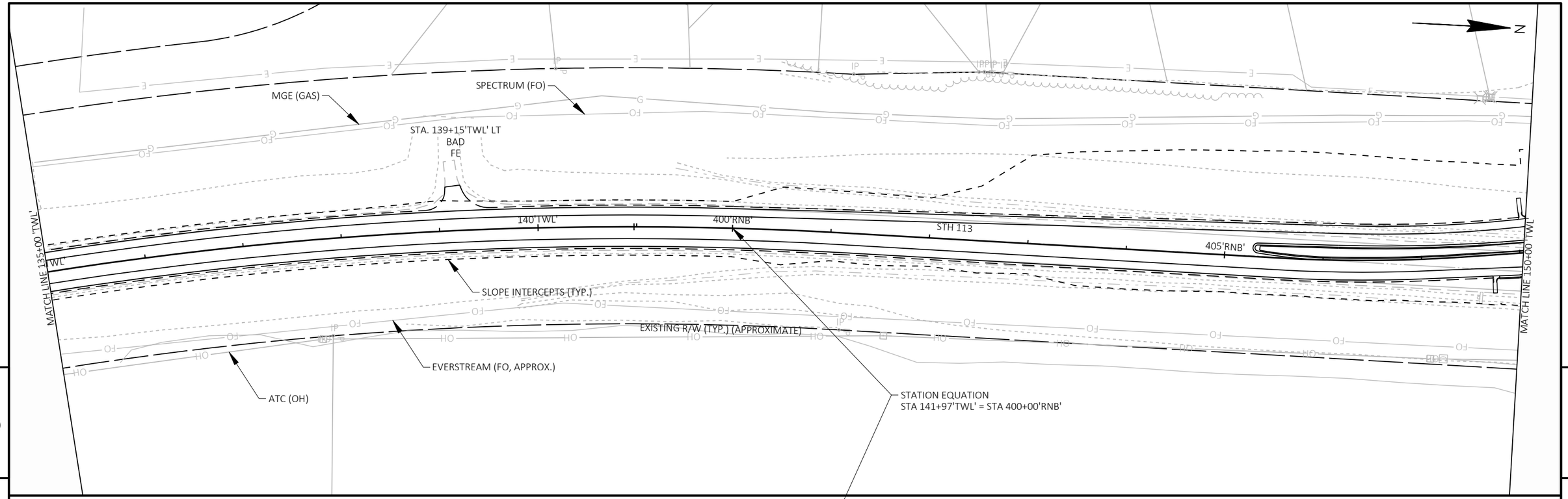


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: STH 113 TWO-LANE	SHEET 195 E

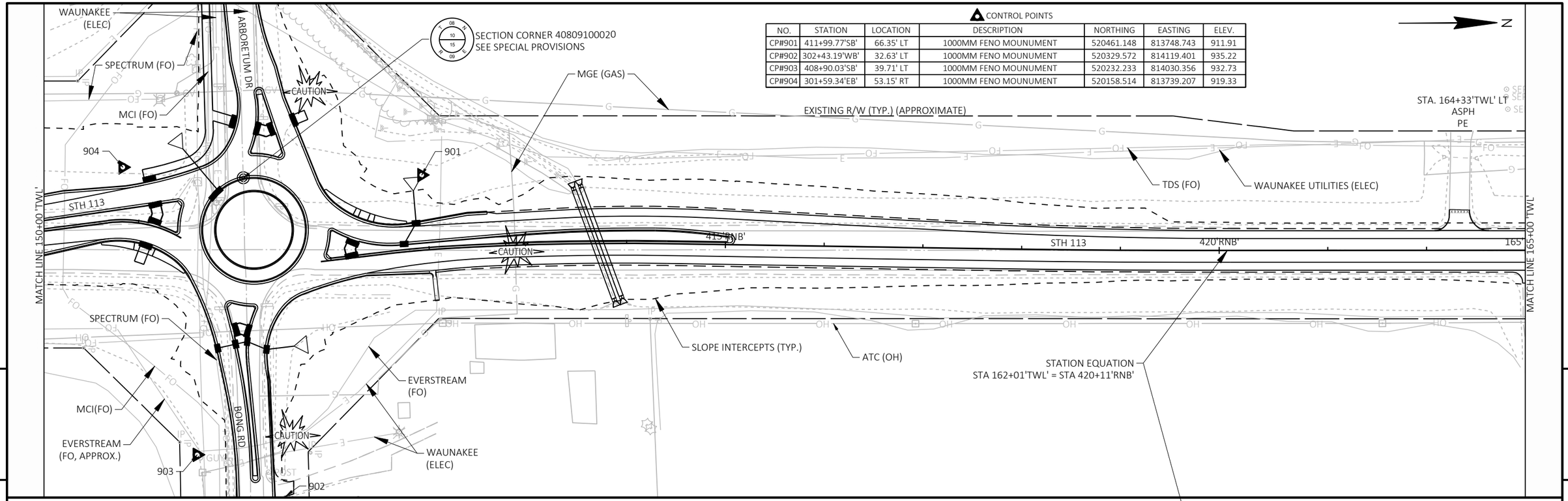
FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\050102-PP-TWL.DWG
LAYOUT NAME - TWL - (6)

PLOT DATE : 10/31/2022 1:53 PM PLOT BY : NATHAN COOK PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



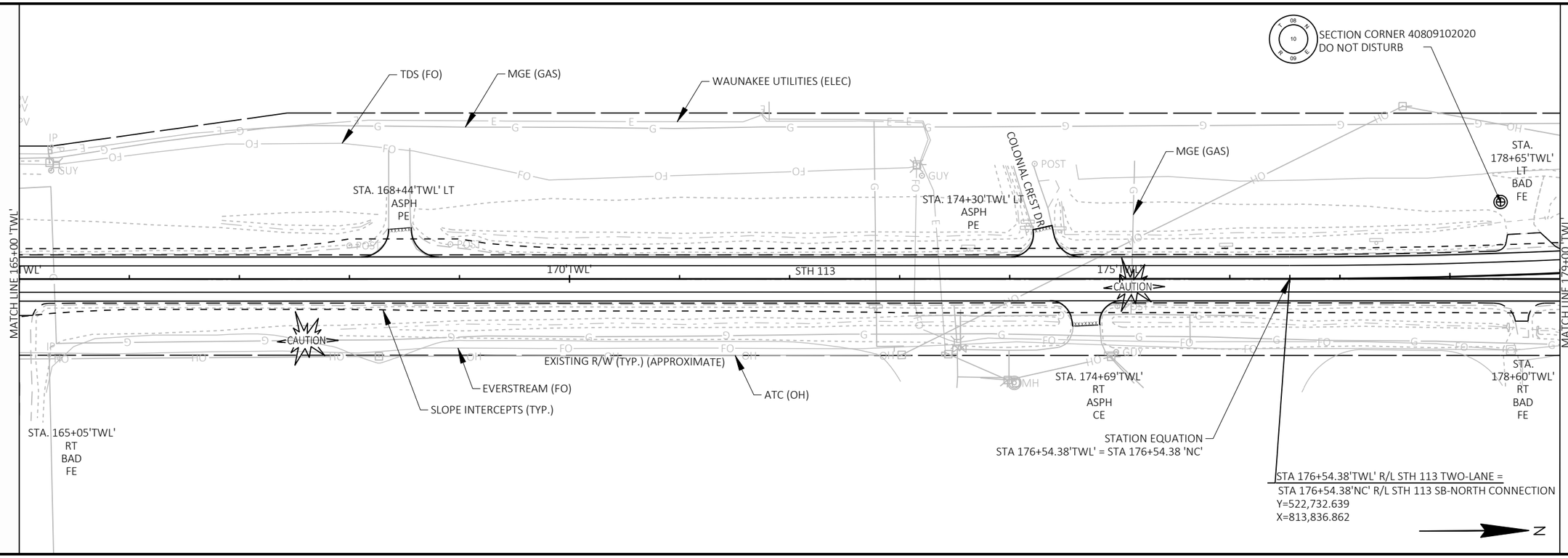
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: STH 113 TWO-LANE	SHEET 196	E

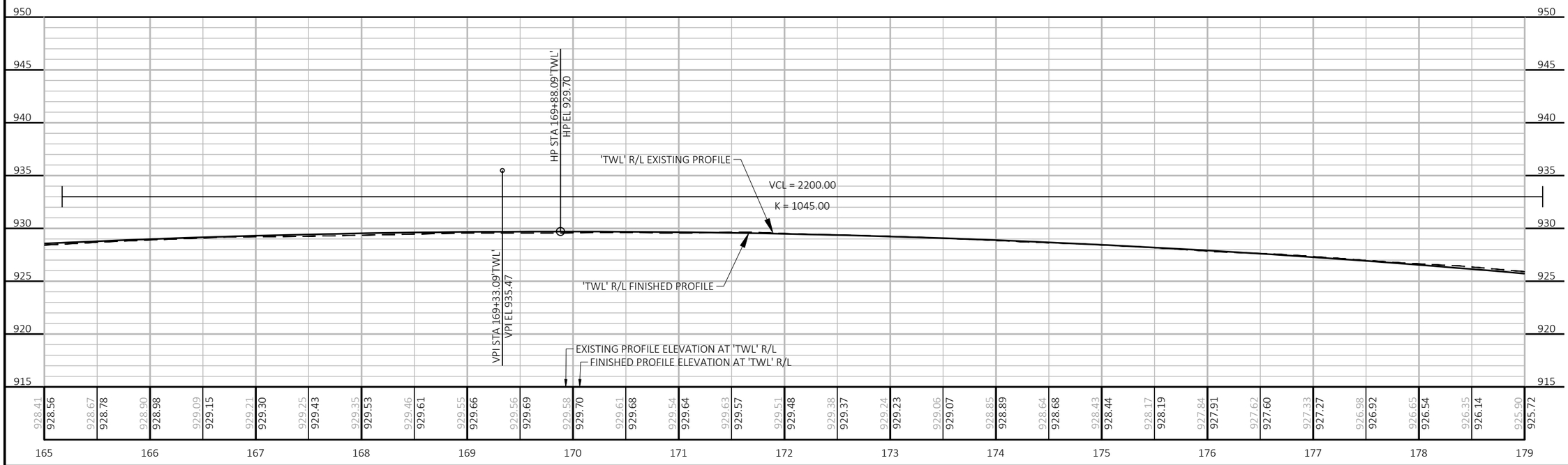


NO.	STATION	LOCATION	DESCRIPTION	NORTHING	EASTING	ELEV.
CP#901	411+99.77'SB'	66.35' LT	1000MM FENO MOUNUMENT	520461.148	813748.743	911.91
CP#902	302+43.19'WB'	32.63' LT	1000MM FENO MOUNUMENT	520329.572	814119.401	935.22
CP#903	408+90.03'SB'	39.71' LT	1000MM FENO MOUNUMENT	520232.233	814030.356	932.73
CP#904	301+59.34'EB'	53.15' RT	1000MM FENO MOUNUMENT	520158.514	813739.207	919.33

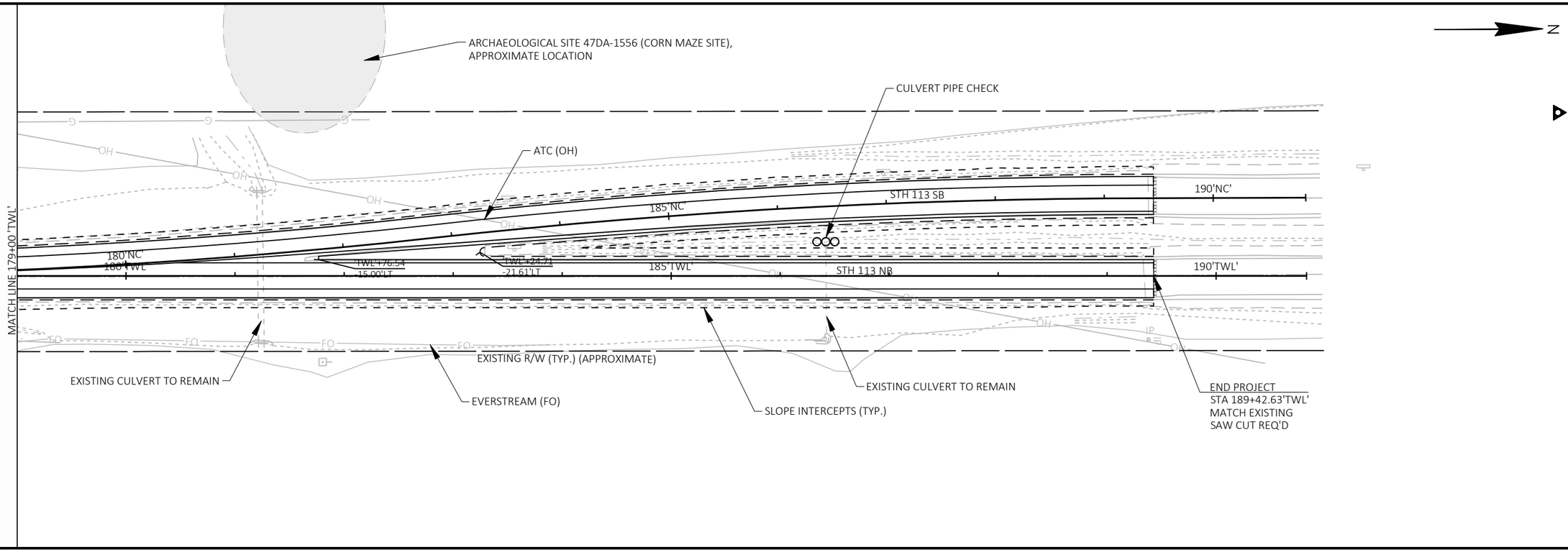
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: STH 113 TWO-LANE	SHEET 197	E

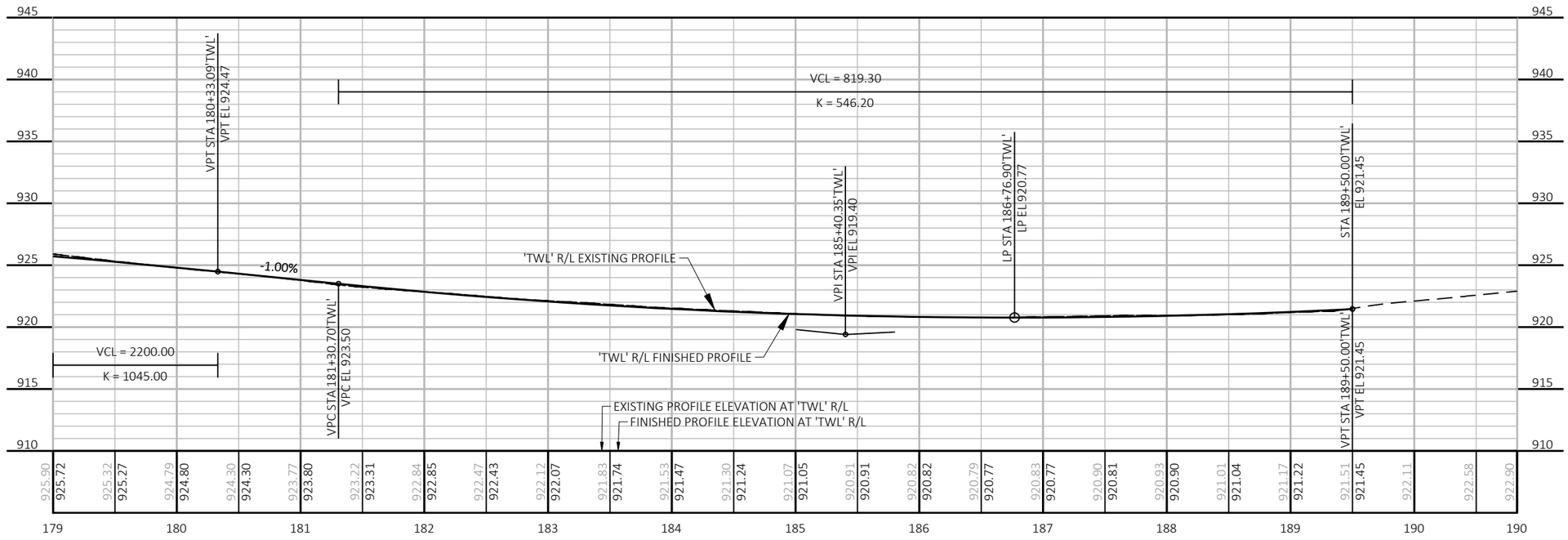
FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\050102-PP-TWL.DWG
LAYOUT NAME - TWL - (8)
PLOT DATE : 10/31/2022 1:53 PM PLOT BY : NATHAN COOK PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



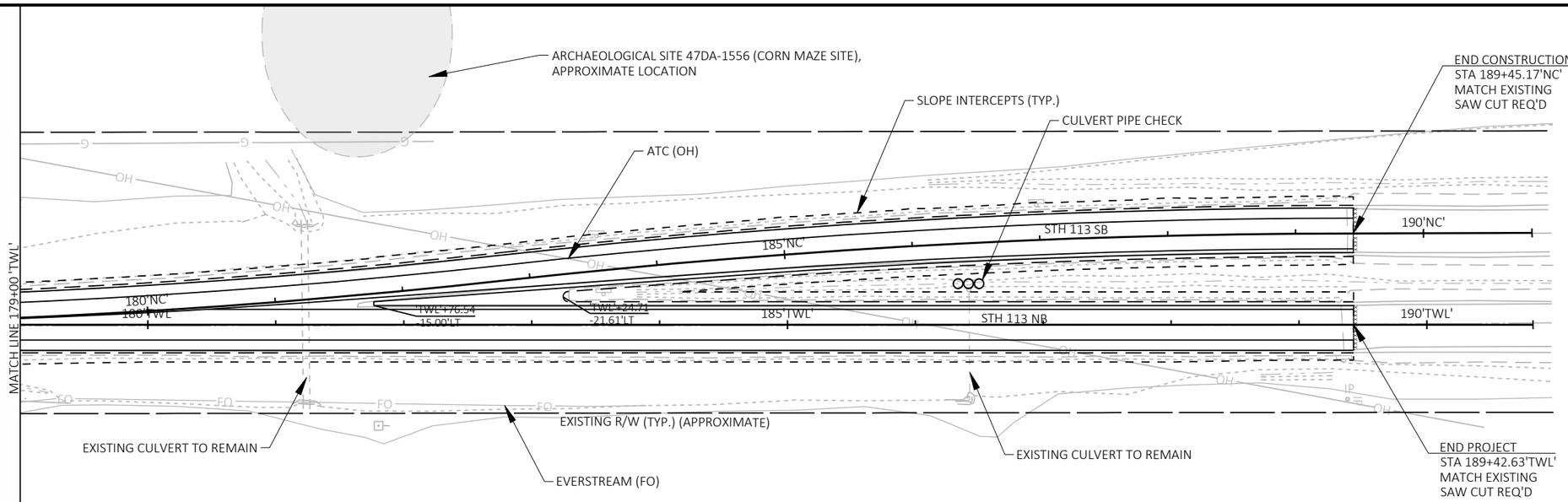


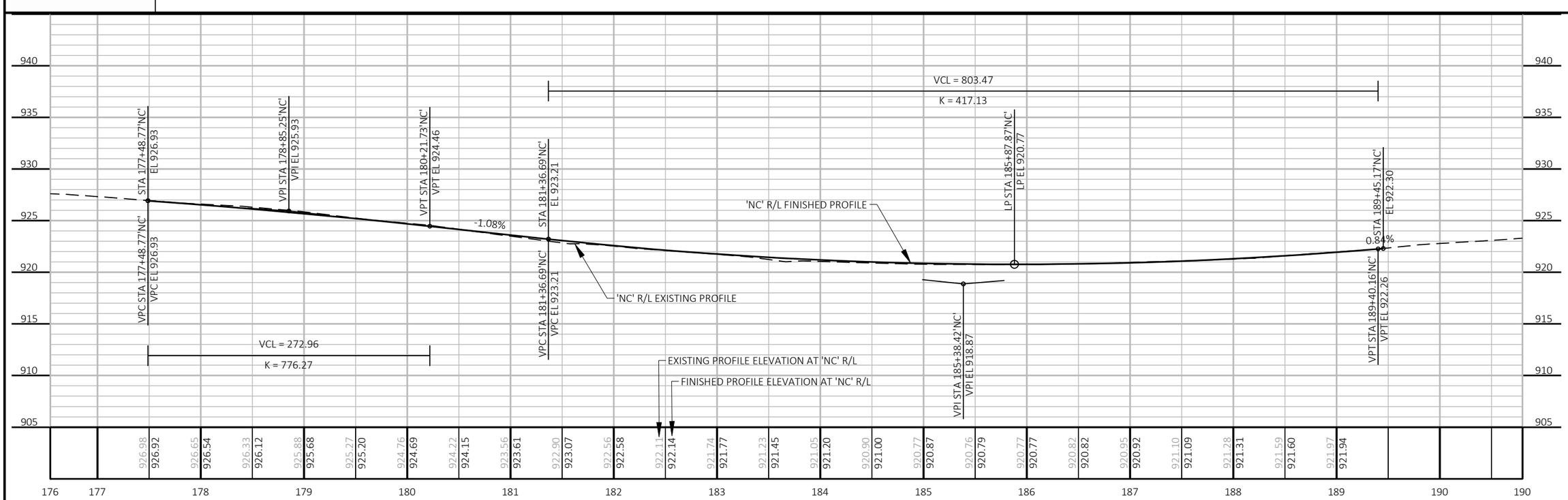
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: STH 113 TWO-LANE	SHEET 198 E



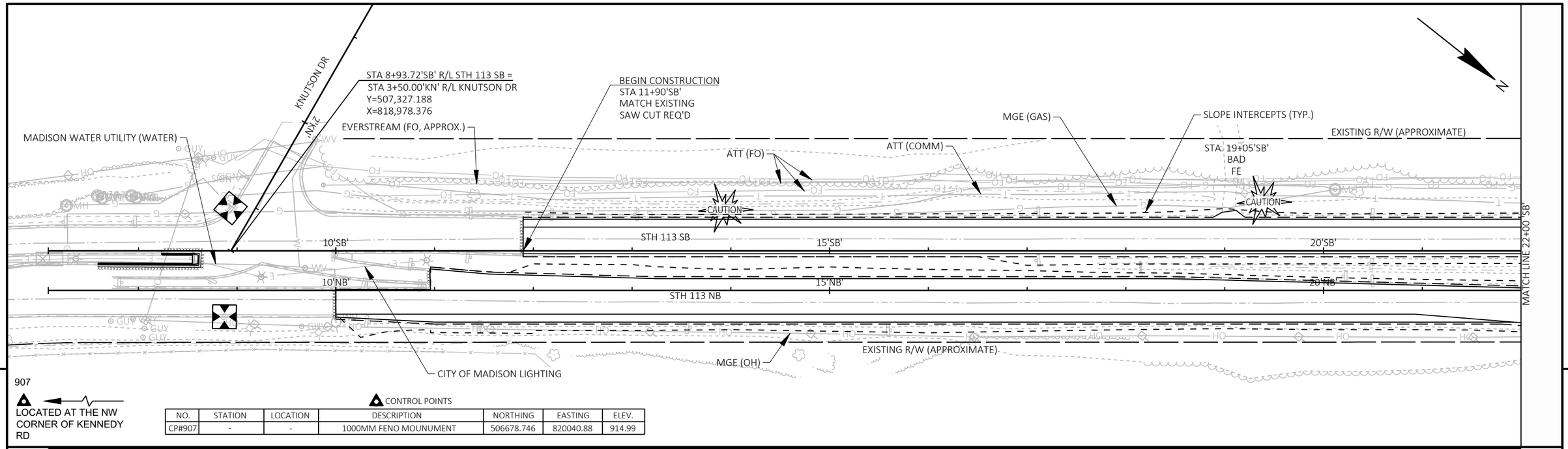


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: STH 113 TWO-LANE	SHEET 199 E





PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: STH 113 SB NORTHERN CONNECTION	SHEET 200 E

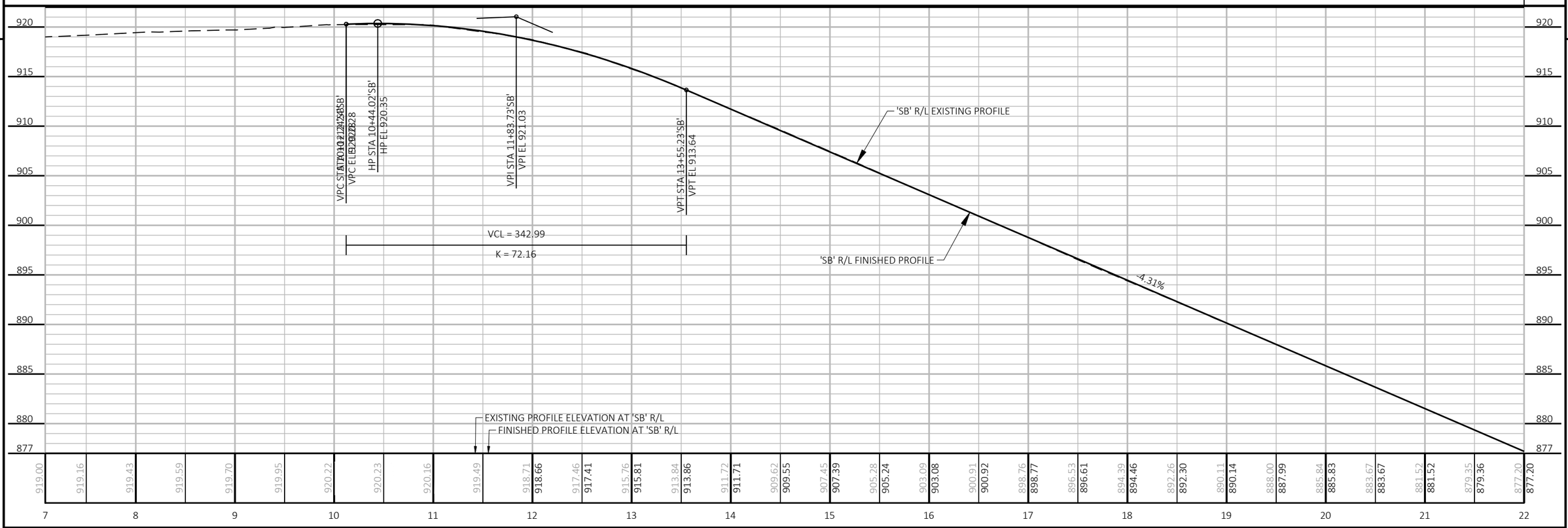


907

LOCATED AT THE NW CORNER OF KENNEDY RD

CONTROL POINTS

NO.	STATION	LOCATION	DESCRIPTION	NORTHING	EASTING	ELEV.
CP#907	-	-	1000MM FENO MOUNUMENT	506678.746	820040.88	914.99



PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: STH 113 SB	SHEET 201	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\050103-PP-SB.DWG
LAYOUT NAME - SB - (5)

PLOT DATE : 10/27/2022 2:06 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

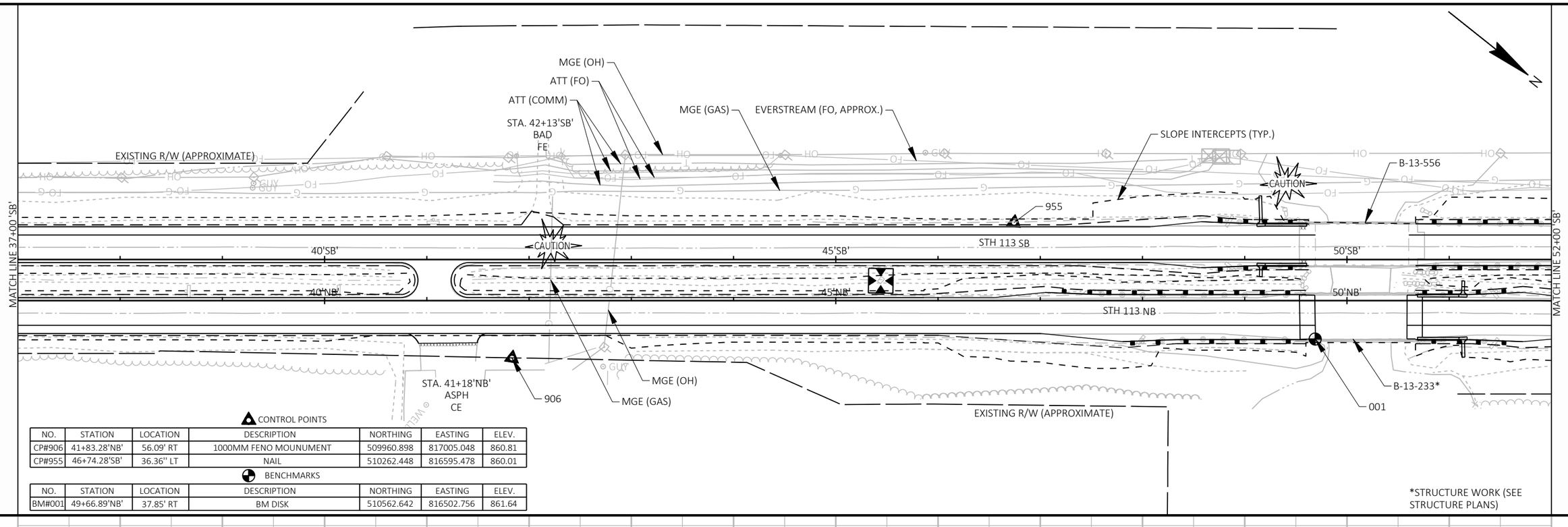
5 5

MGE (OH)
ATT (COMM)
ATT (FO)
EXISTING R/W (APPROXIMATE)
MGE (GAS)
ATT (FO)
EXISTING CULVERT TO REMAIN
EVERSTREAM (FO, APPROX.)
MGE (OH)
MATCH LINE 22+00 'SB'
MATCH LINE 37+00 'SB'
25'SB'
30'SB'
STH 113 SB
35'SB'
25'NB'
30'NB'
35'NB'
STH 113 NB
EXISTING R/W (APPROXIMATE)
SOLAR PANEL (DO NOT DISTURB)
STA. 34+75'NB'
BAD
FE
SLOPE INTERCEPTS (TYP.)
STA 23+07.88'NB' R/L STH 113 NB =
STA 0+00.00'D' R/L DEBS RD
Y=508,458.660
X=818,129.122
DEBS RD
N

885
880
875
870
865
860
855
850

VCL = 560.00
K = 129.85
VPC STA 22+84.71'SB'
VPC EL 873.55
'SB' R/L FINISHED PROFILE
'SB' R/L EXISTING PROFILE
LP STA 28+44.71'SB'
LP EL 861.48
VPI STA 25+64.71'SB'
VPI EL 861.48
VPT STA 28+44.71'SB'
VPT EL 861.48
0.00%
EXISTING PROFILE ELEVATION AT 'SB' R/L
FINISHED PROFILE ELEVATION AT 'SB' R/L

| | | |



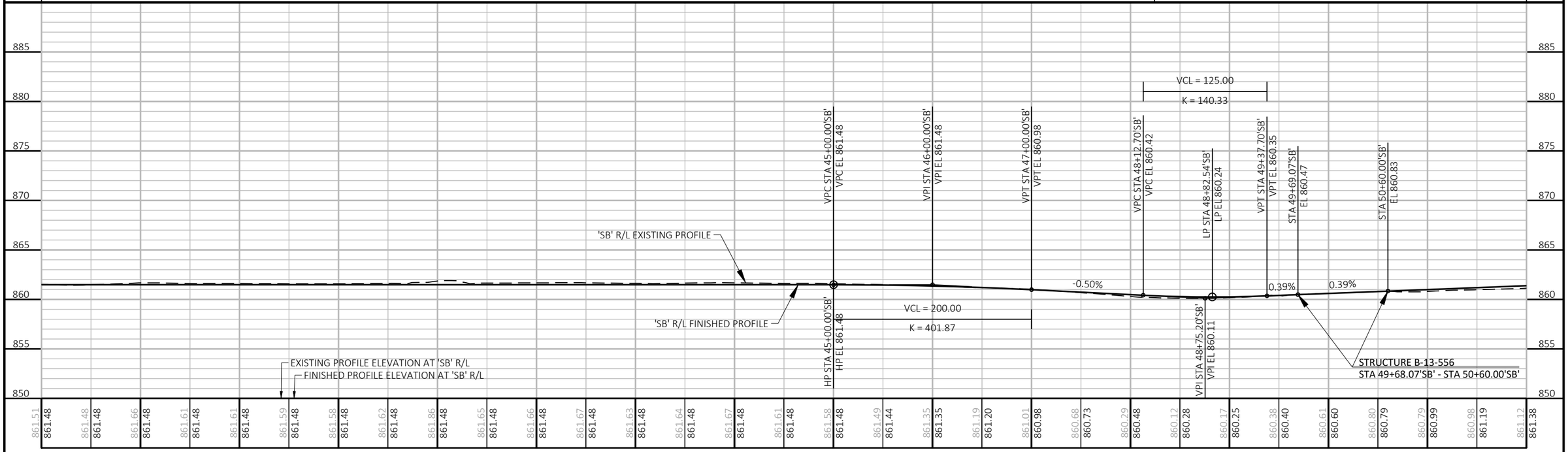
CONTROL POINTS

NO.	STATION	LOCATION	DESCRIPTION	NORTHING	EASTING	ELEV.
CP#906	41+83.28'NB'	56.09' RT	1000MM FENO MOUNUMENT	509960.898	817005.048	860.81
CP#955	46+74.28'SB'	36.36'' LT	NAIL	510262.448	816595.478	860.01

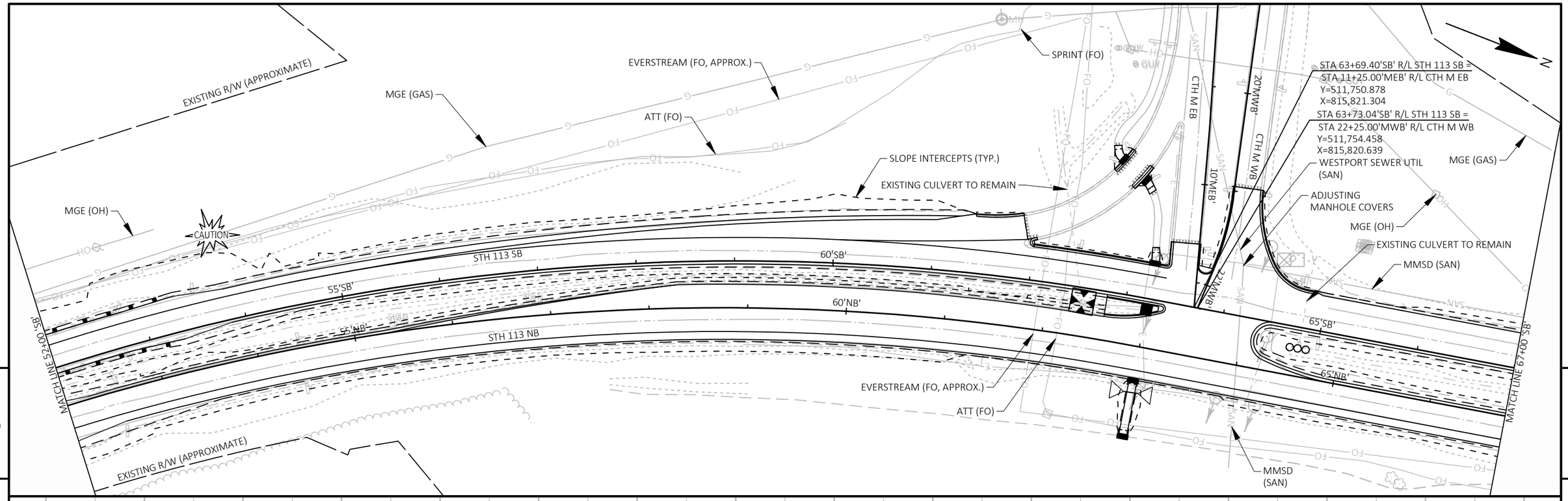
BENCHMARKS

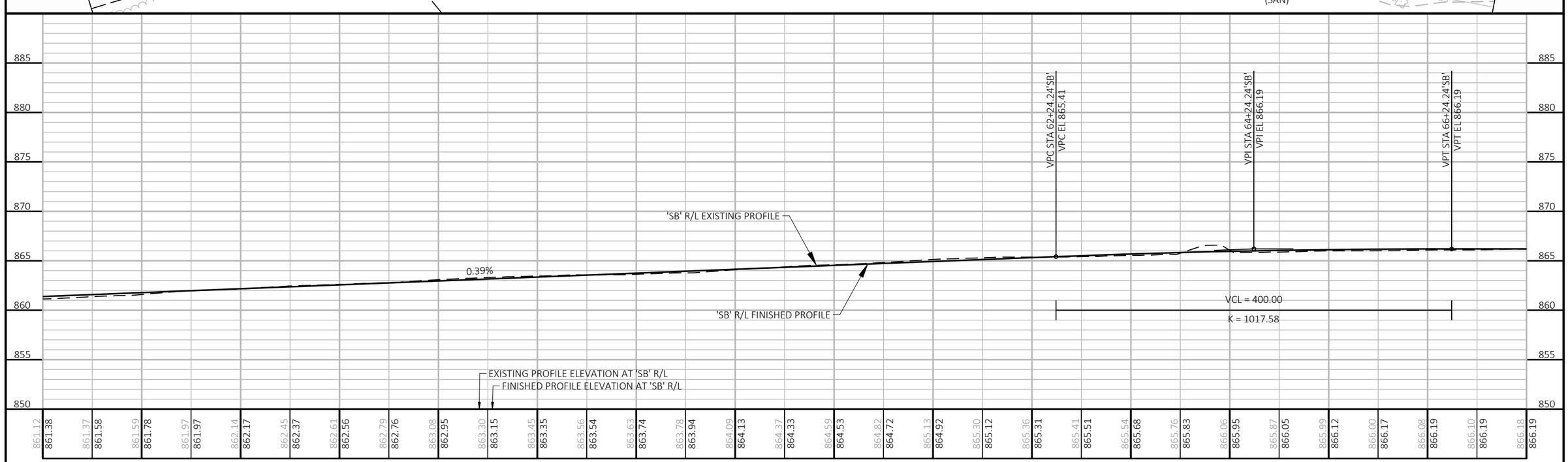
NO.	STATION	LOCATION	DESCRIPTION	NORTHING	EASTING	ELEV.
BM#001	49+66.89'NB'	37.85' RT	BM DISK	510562.642	816502.756	861.64

*STRUCTURE WORK (SEE STRUCTURE PLANS)



PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: STH 113 SB	SHEET 203	E

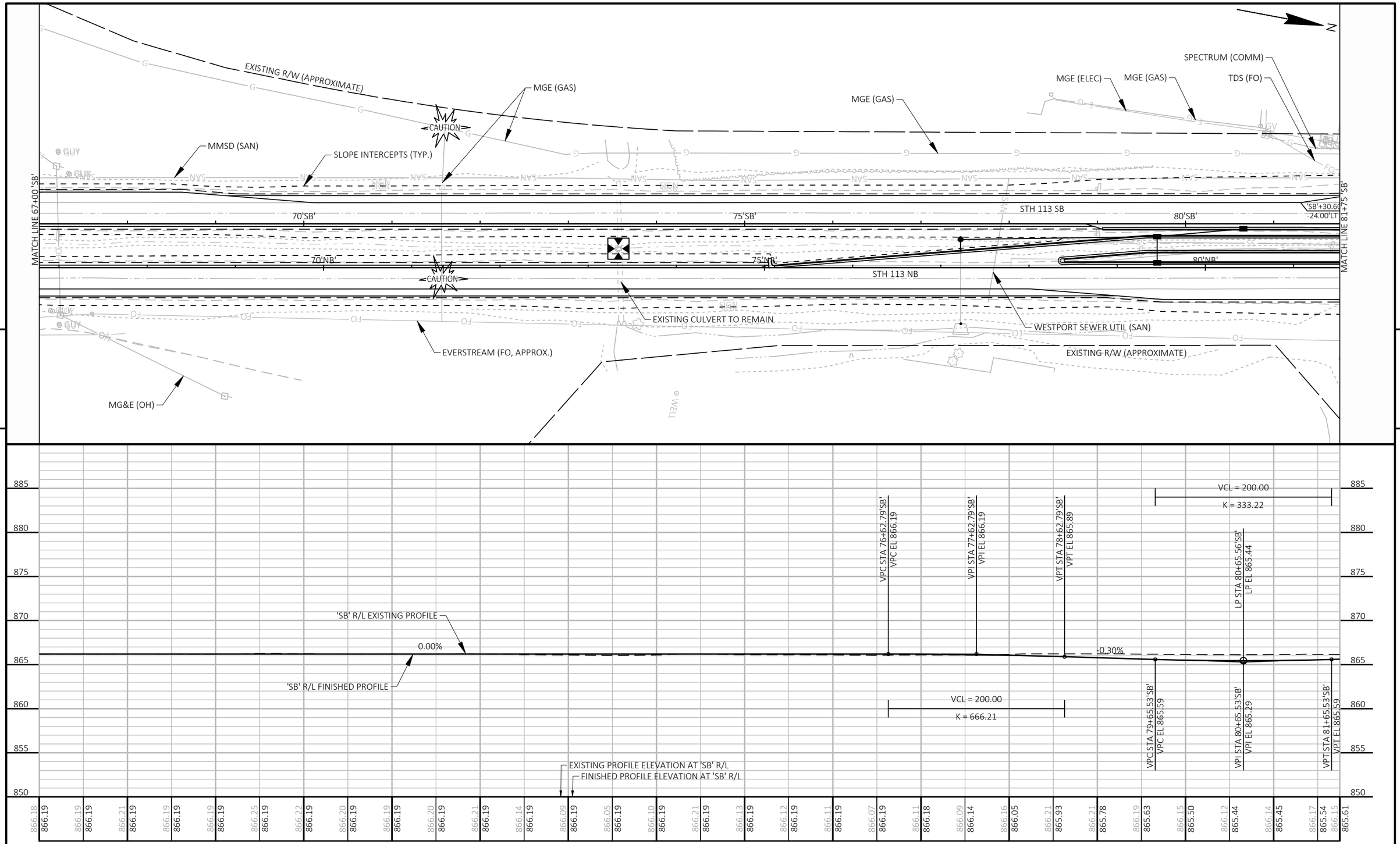




PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: STH 113 SB	SHEET 204	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\050103-PP-SB.DWG
LAYOUT NAME - SB - (8)

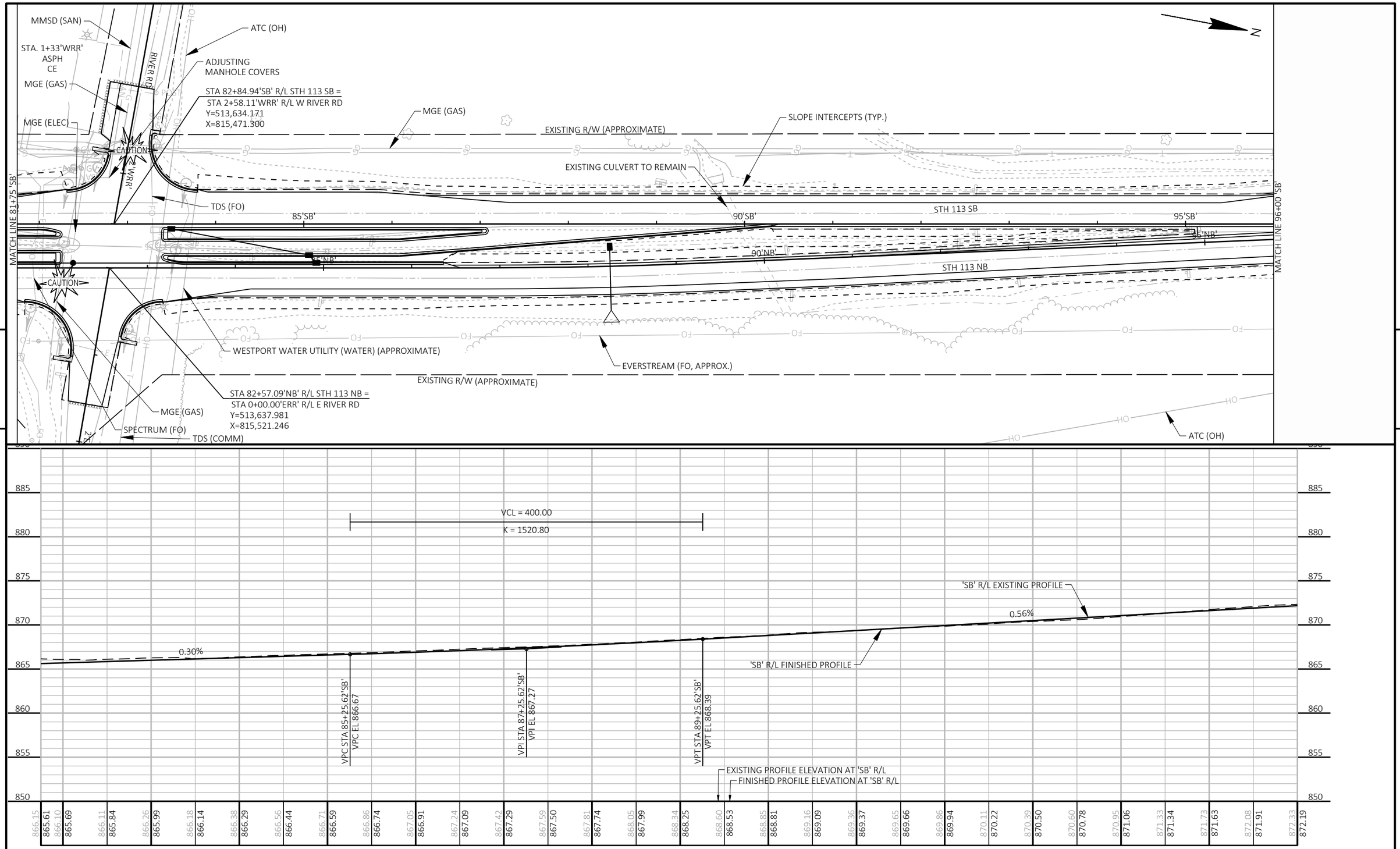
PLOT DATE : 10/27/2022 2:07 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:100 FT



PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: STH 113 SB	SHEET 205 E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\050103-PP-SB.DWG
LAYOUT NAME - SB - (9)

PLOT DATE : 10/27/2022 2:07 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:100 FT

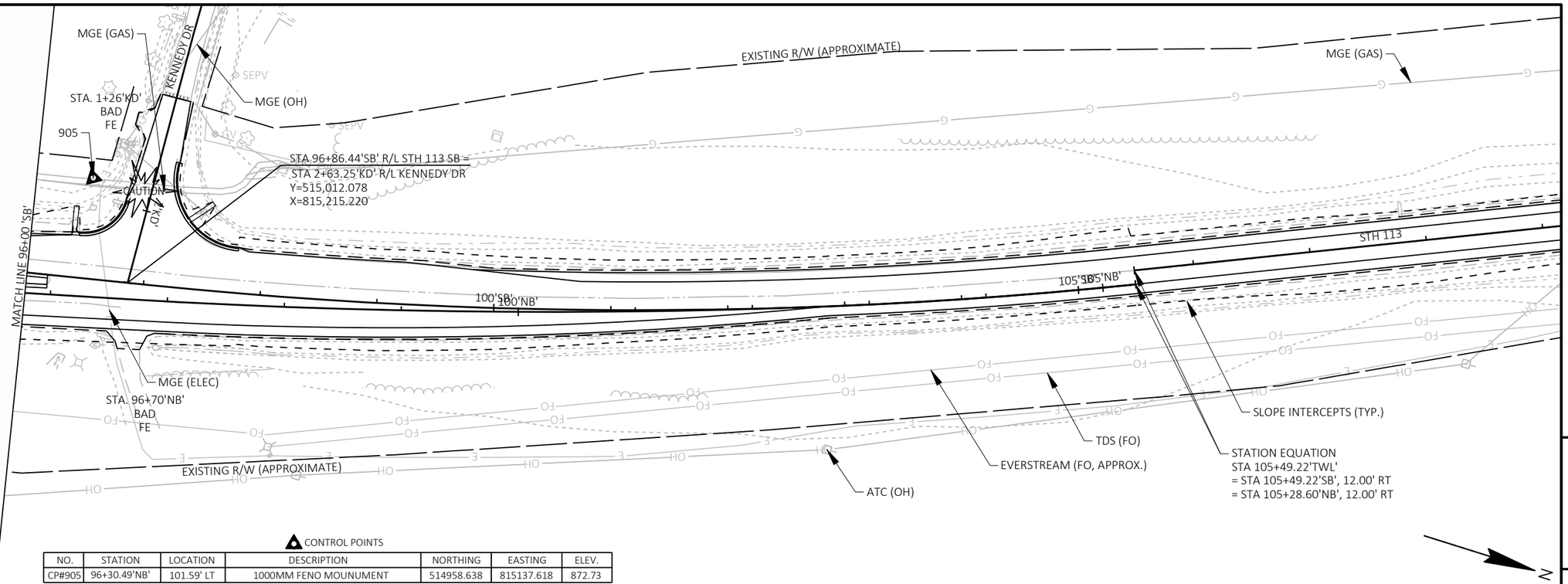


5

5

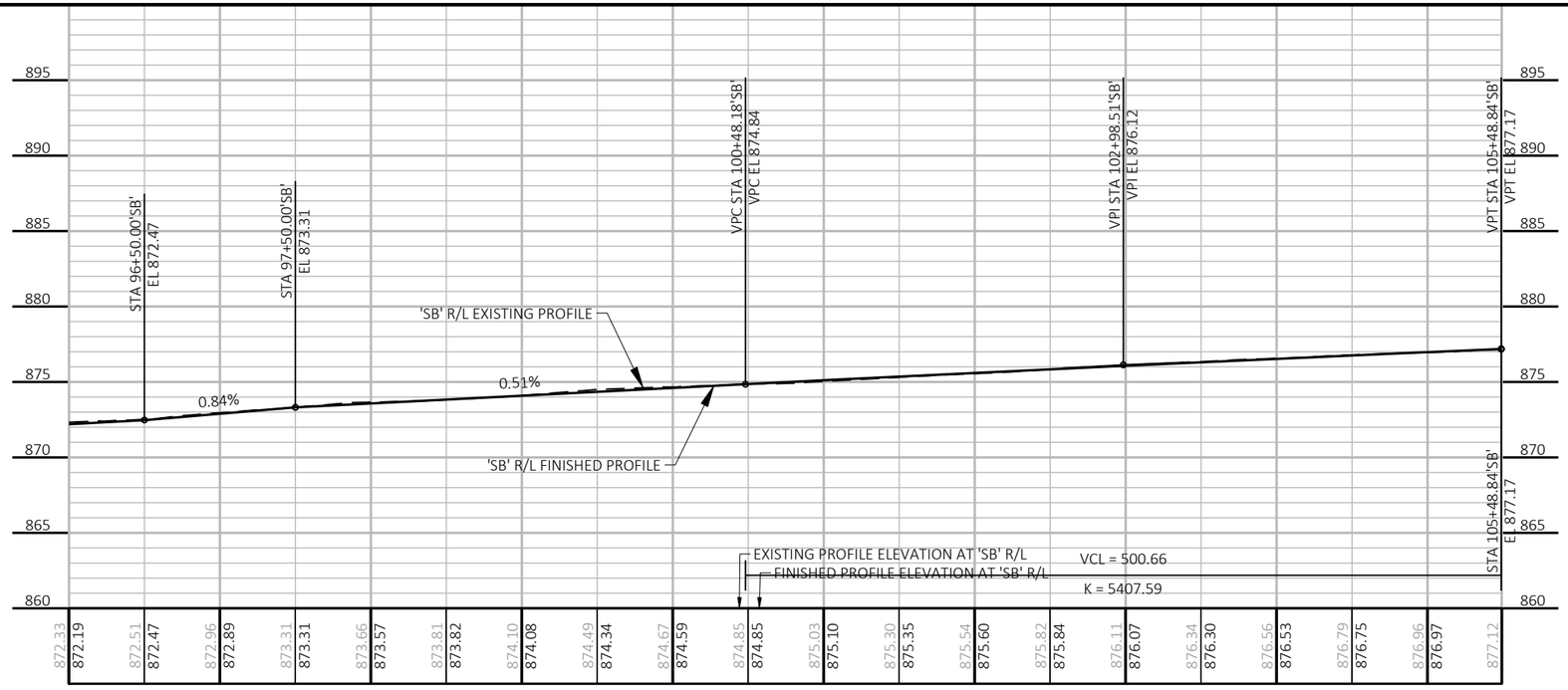
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: STH 113 SB	SHEET 206	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\050103-PP-SB.DWG
LAYOUT NAME - SB - (10)
PLOT DATE : 10/27/2022 2:07 PM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

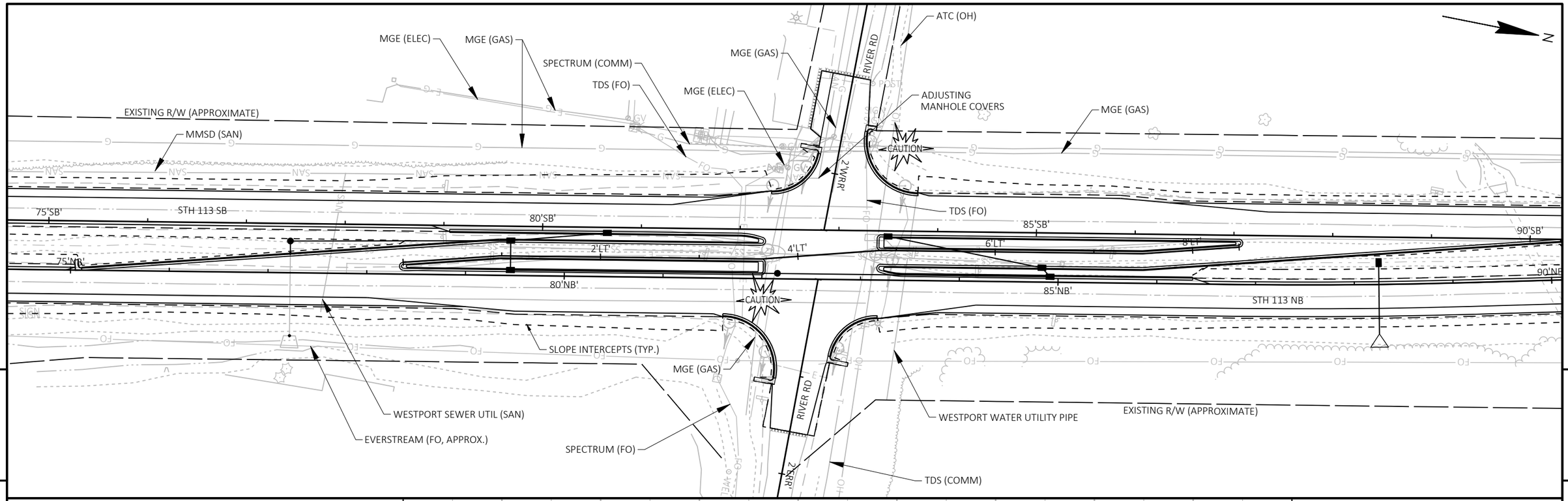


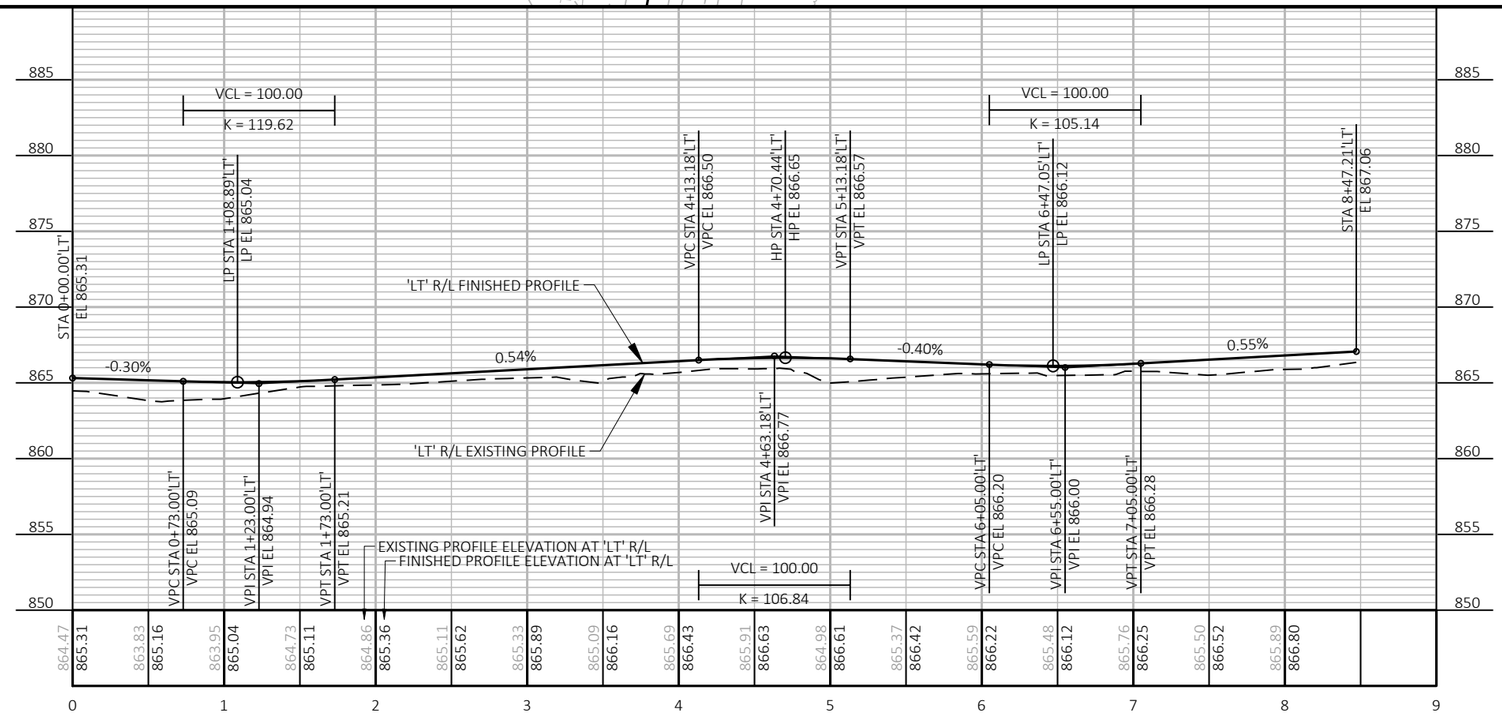
CONTROL POINTS

NO.	STATION	LOCATION	DESCRIPTION	NORTHING	EASTING	ELEV.
CP#905	96+30.49'NB'	101.59' LT	1000MM FENO MOUNUMENT	514958.638	815137.618	872.73



PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: STH 113 SB	SHEET 207 E



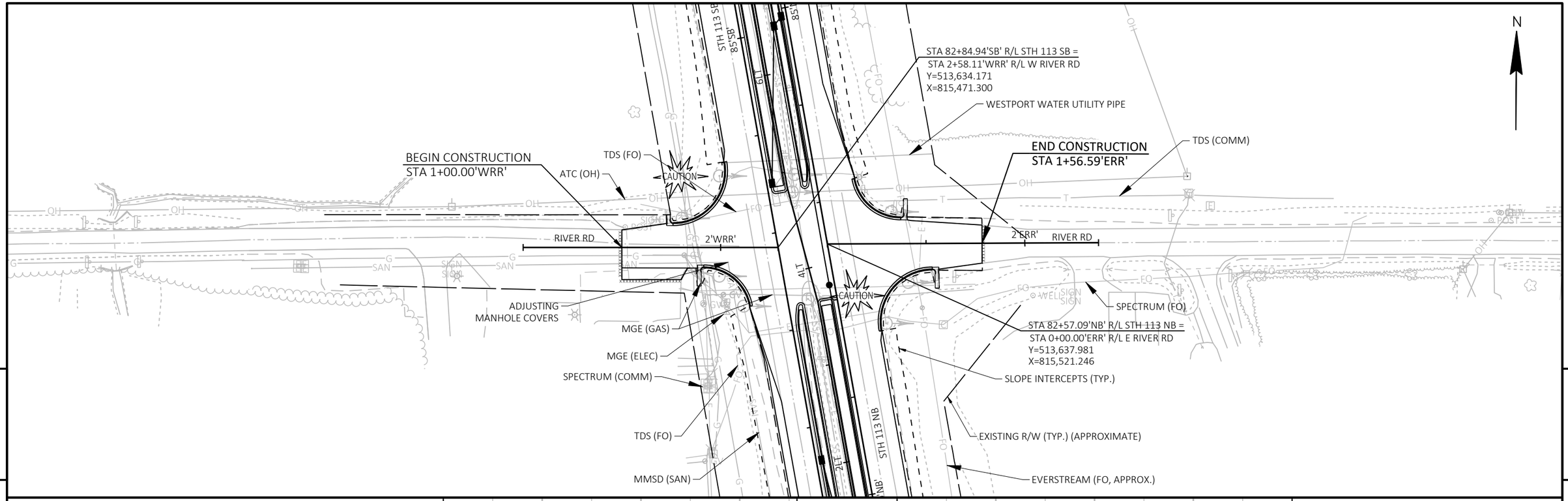


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: RIVER ROAD LEFT LANE	SHEET 208	E

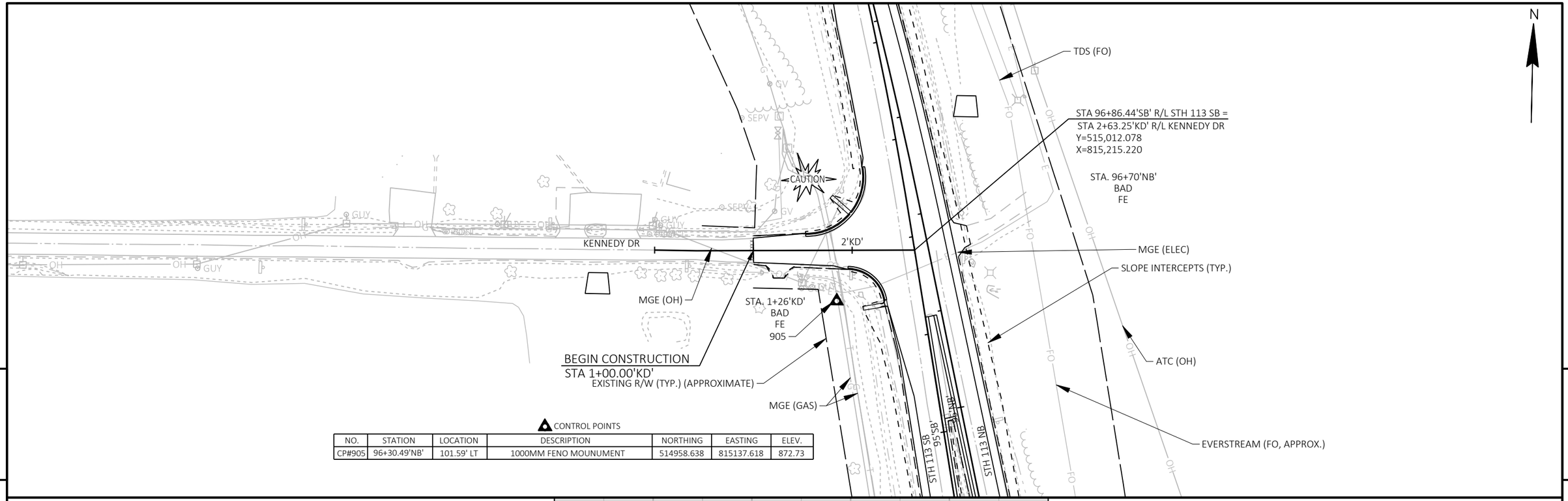
FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\050104-PP-RIVER RD.DWG
LAYOUT NAME - 050104-pp-River Rd

PLOT DATE : 10/27/2022 2:10 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

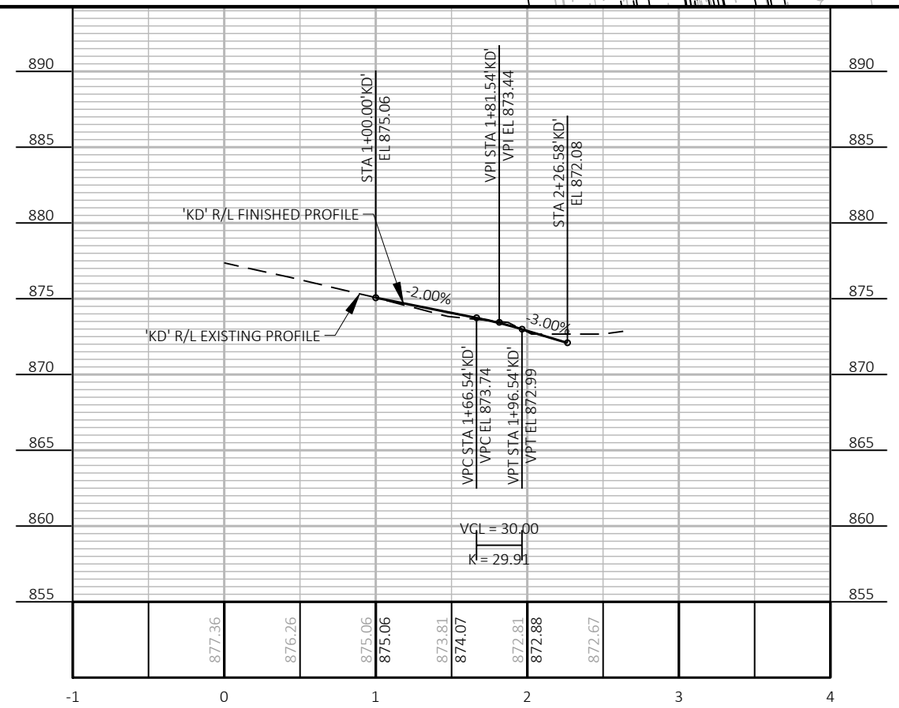


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: RIVER RD	SHEET 209	E

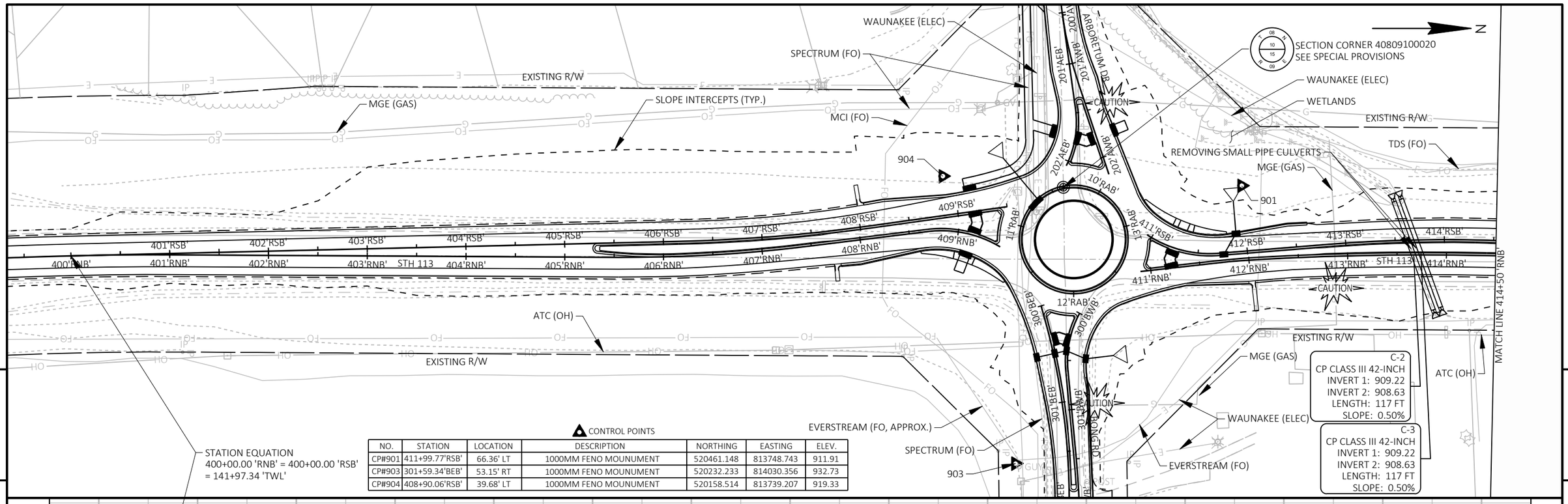


CONTROL POINTS

NO.	STATION	LOCATION	DESCRIPTION	NORTHING	EASTING	ELEV.
CP#905	96+30.49'NB'	101.59' LT	1000MM FENO MOUNUMENT	514958.638	815137.618	872.73

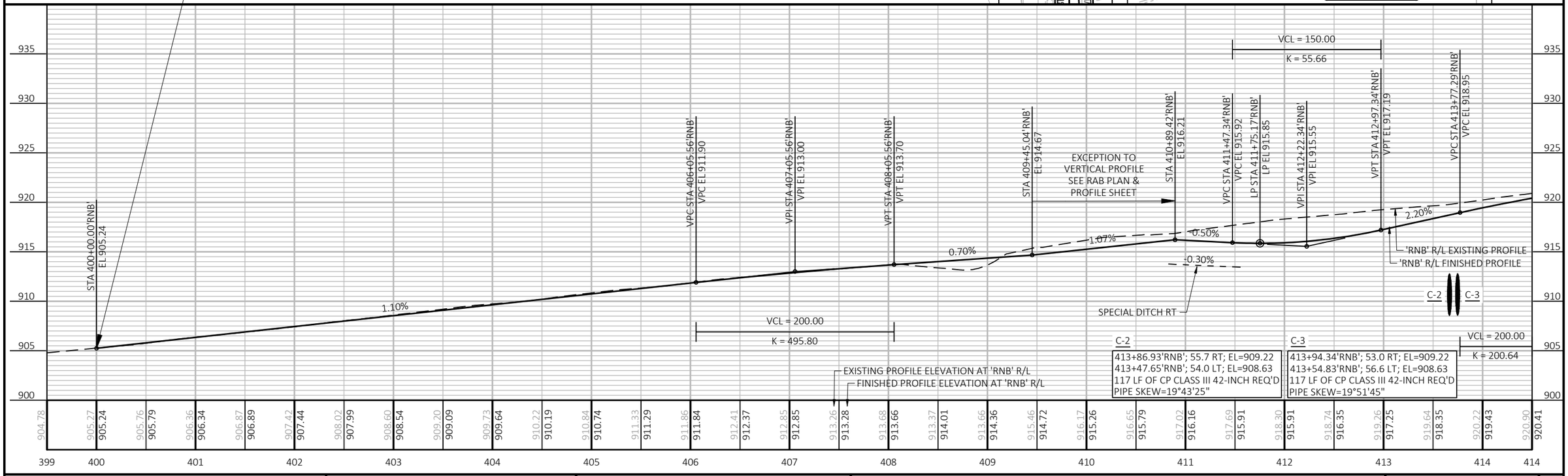


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: KENNEDY DR	SHEET 210	E

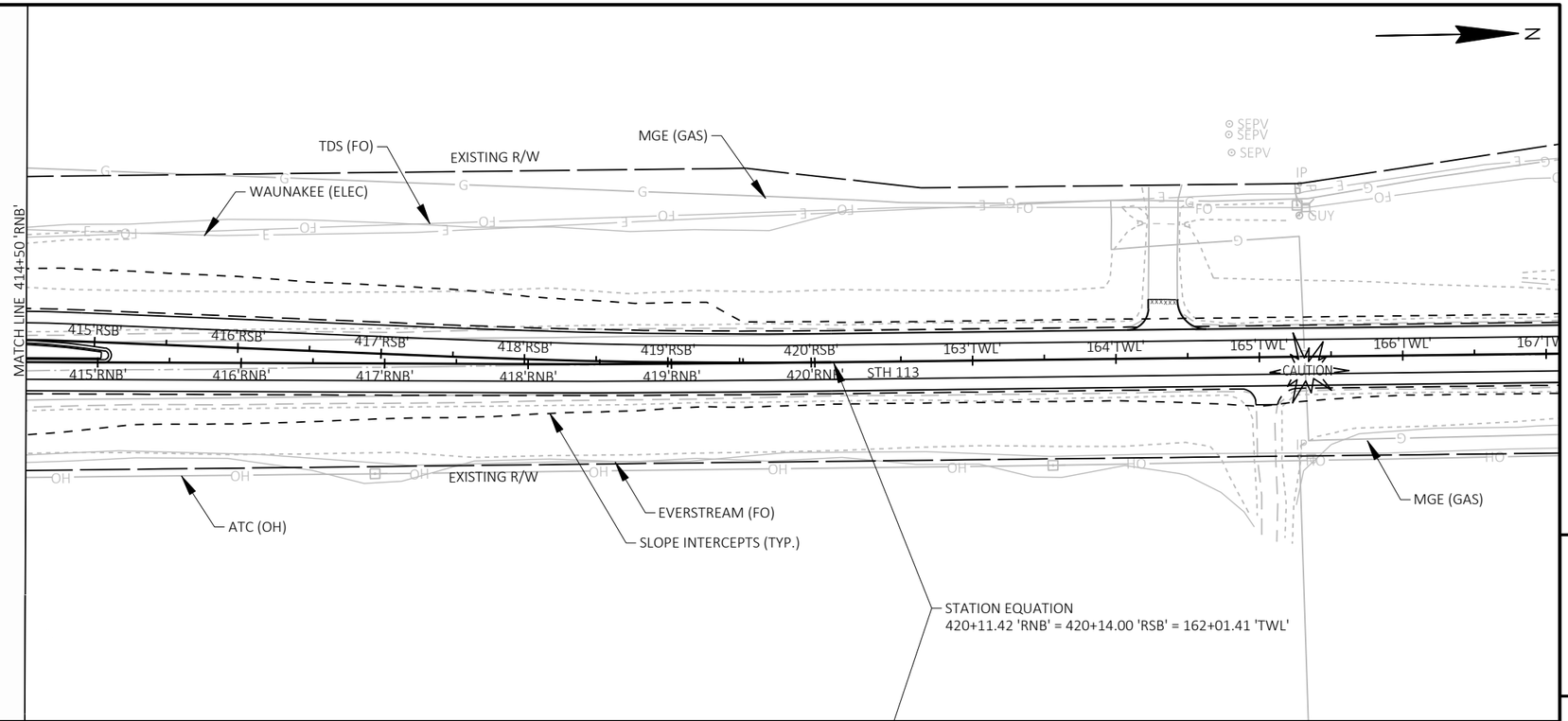


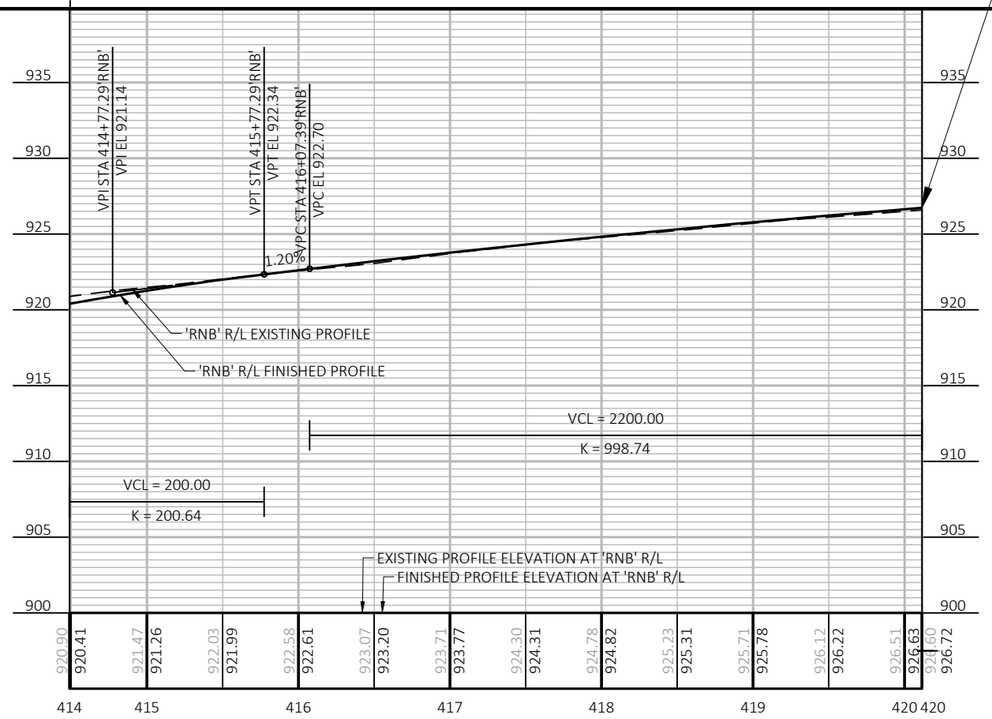
CONTROL POINTS

NO.	STATION	LOCATION	DESCRIPTION	NORTHING	EASTING	ELEV.
CP#901	411+99.77'RSB'	66.36' LT	1000MM FENO MOUNUMENT	520461.148	813748.743	911.91
CP#903	301+59.34'BEB'	53.15' RT	1000MM FENO MOUNUMENT	520232.233	814030.356	932.73
CP#904	408+90.06'RSB'	39.68' LT	1000MM FENO MOUNUMENT	520158.514	813739.207	919.33



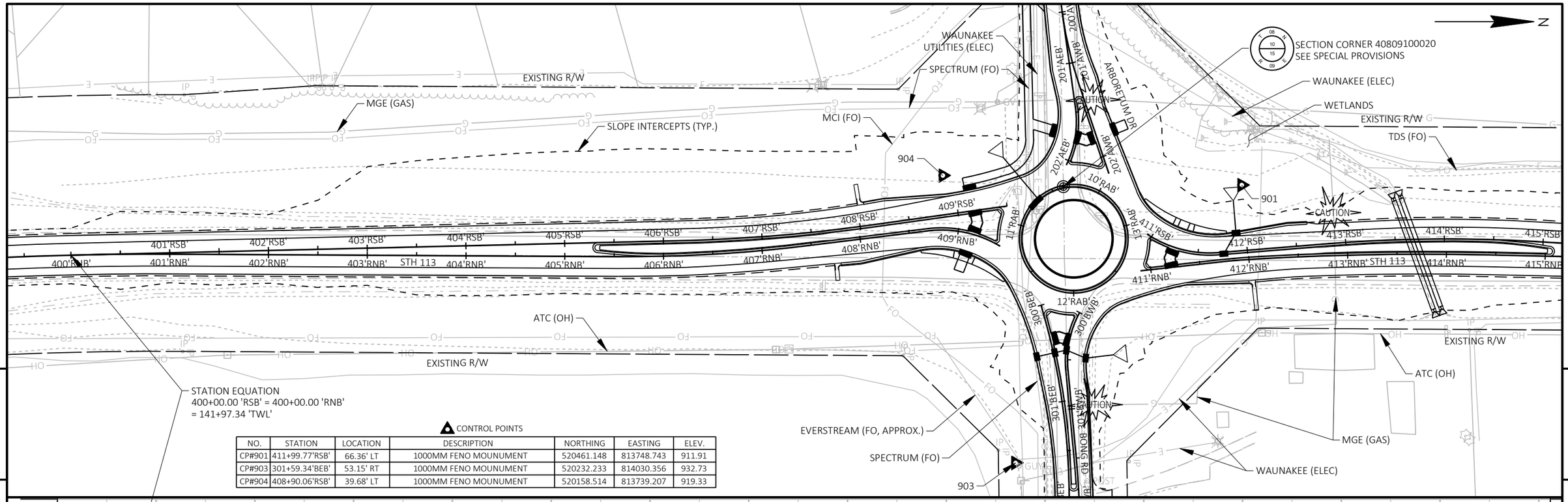
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: STH 113 NB RAB	SHEET 211	E





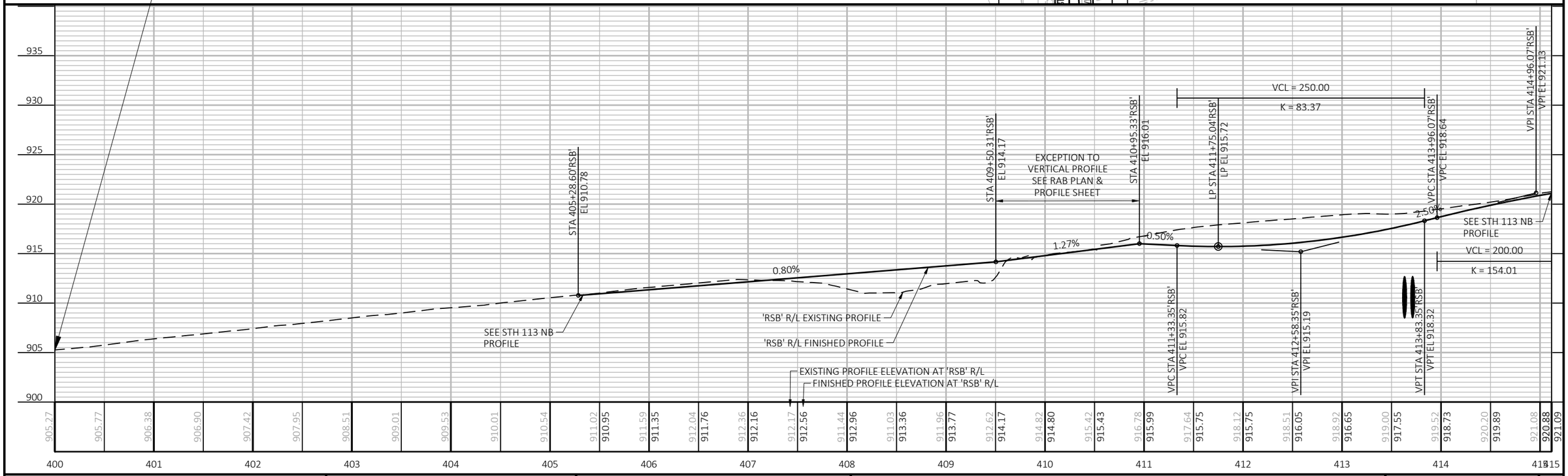
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: STH 113 NB RAB	SHEET 212	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\050105-PP-RAB 113 NB.DWG
LAYOUT NAME - 050102-pp
PLOT DATE : 10/27/2022 1:18 PM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:100 FT



▲ CONTROL POINTS

NO.	STATION	LOCATION	DESCRIPTION	NORTHING	EASTING	ELEV.
CP#901	411+99.77'RSB'	66.36' LT	1000MM FENO MOUNUMENT	520461.148	813748.743	911.91
CP#903	301+59.34'BEB'	53.15' RT	1000MM FENO MOUNUMENT	520232.233	814030.356	932.73
CP#904	408+90.06'RSB'	39.68' LT	1000MM FENO MOUNUMENT	520158.514	813739.207	919.33

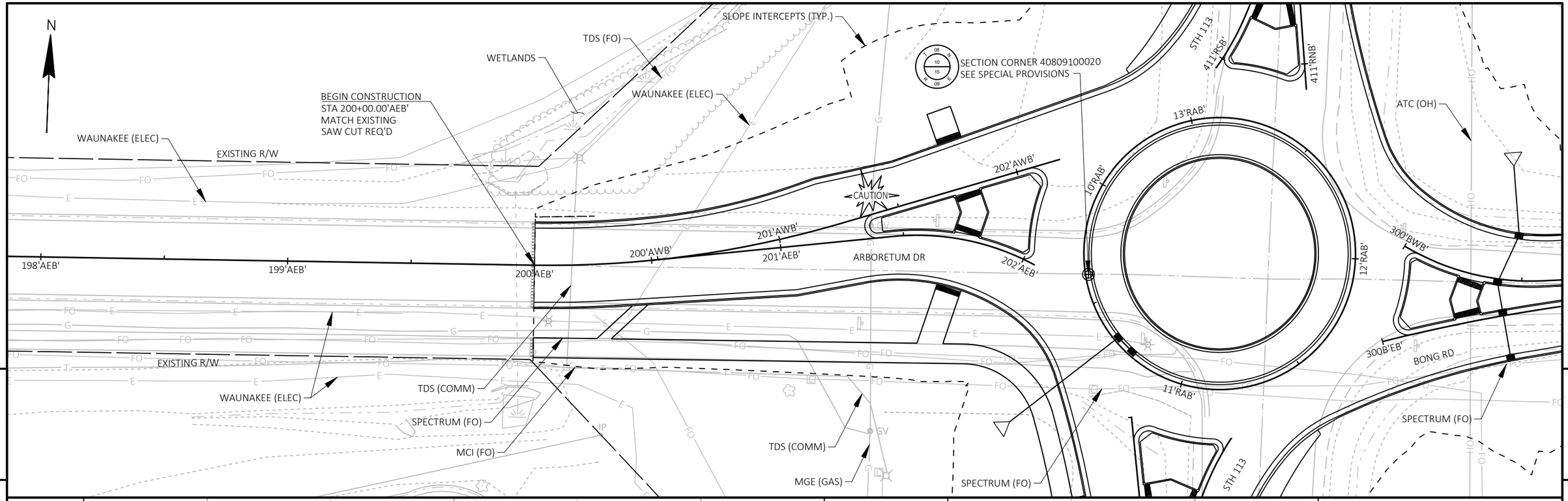


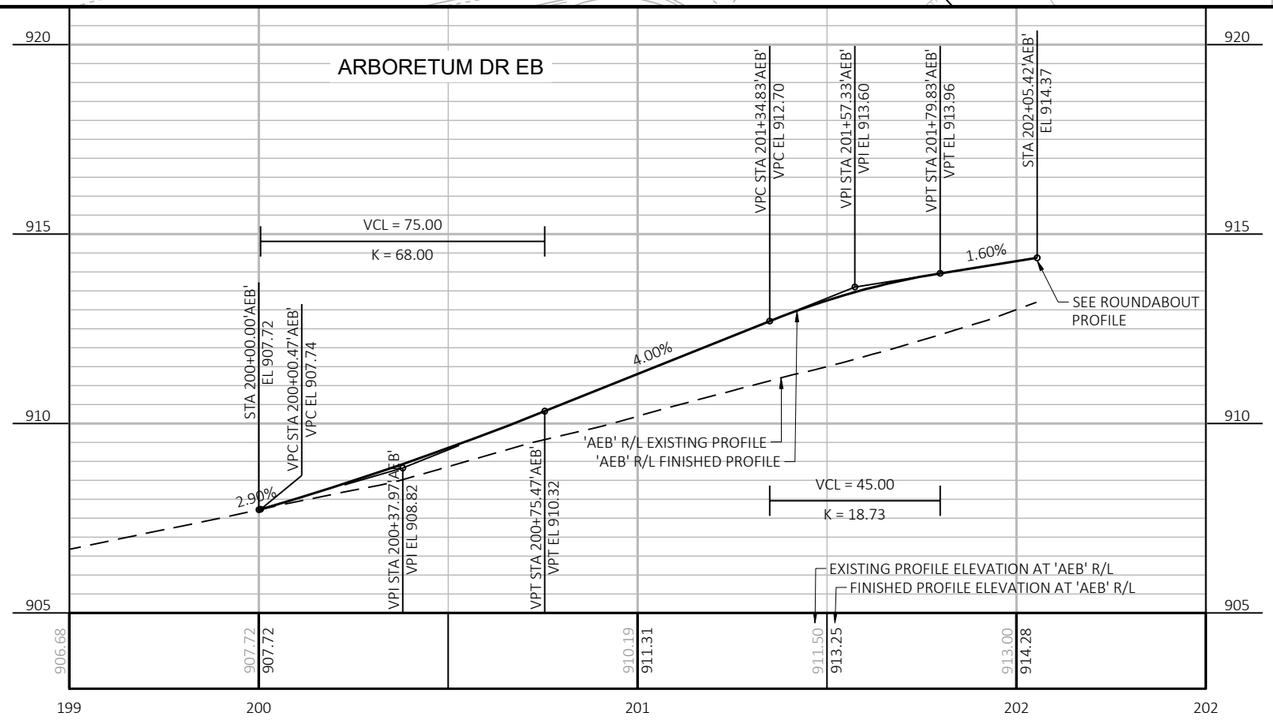
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: STH 113 SB RAB	SHEET 213	E

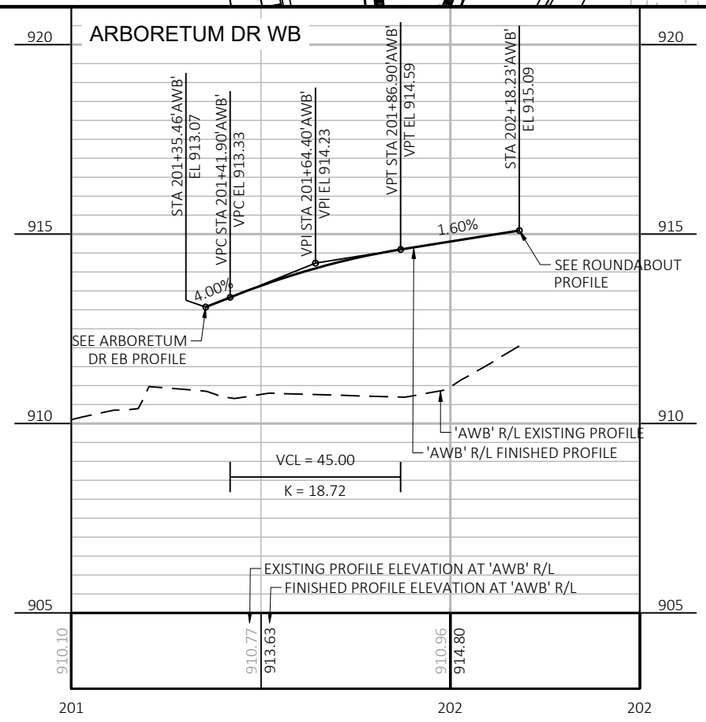
FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\050105-PP-RAB 113 SB.DWG
LAYOUT NAME - 050101-pp

PLOT DATE : 10/27/2022 1:17 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

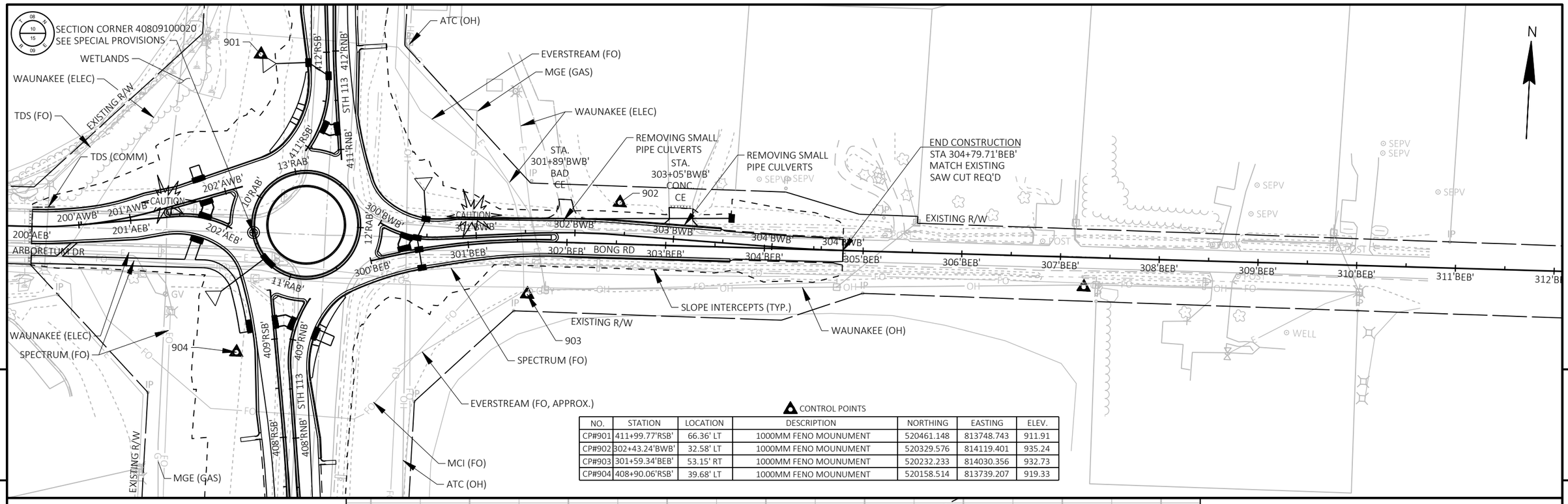






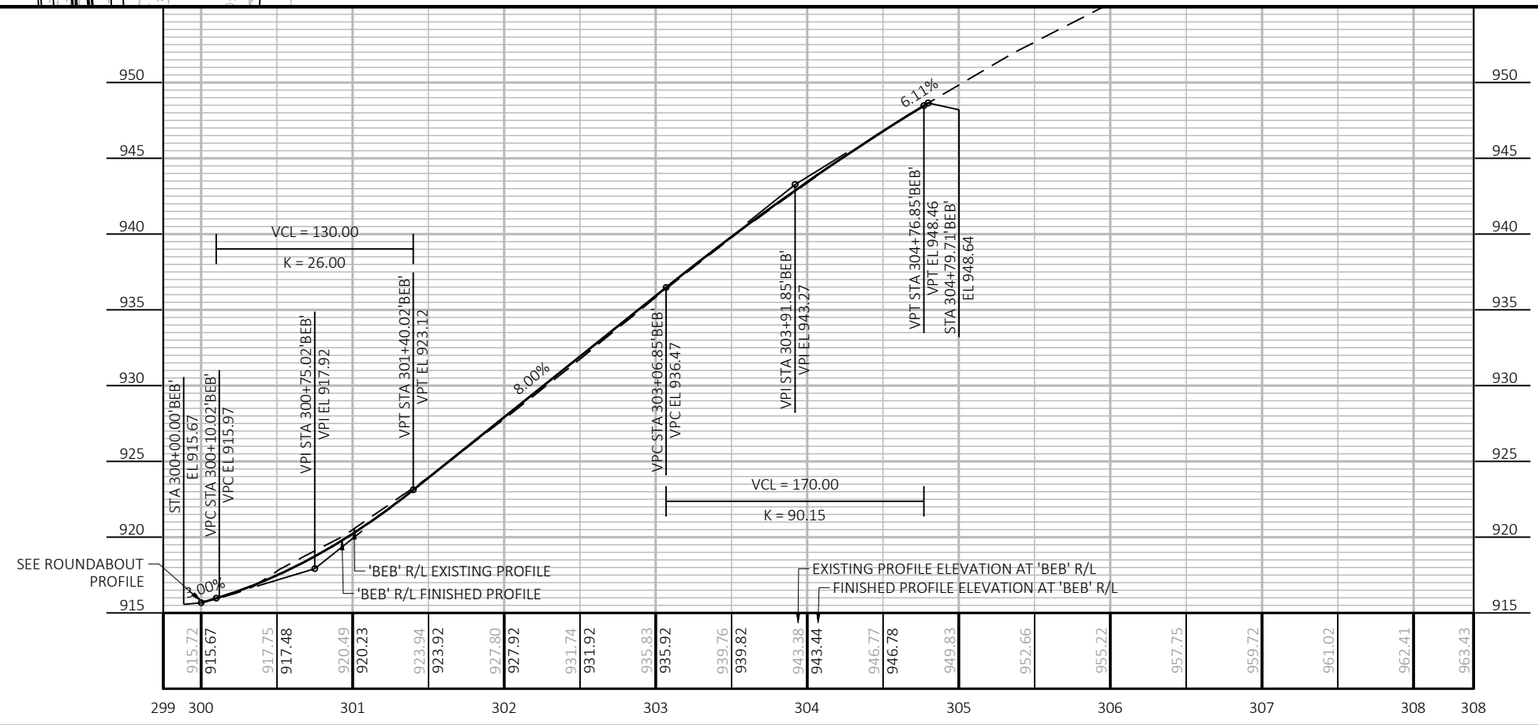
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: ARBORETUM DR EB & WB	SHEET 214	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\050106-PP-ARB EB & WB.DWG
LAYOUT NAME - 050101-pp
PLOT DATE : 10/27/2022 12:26 PM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

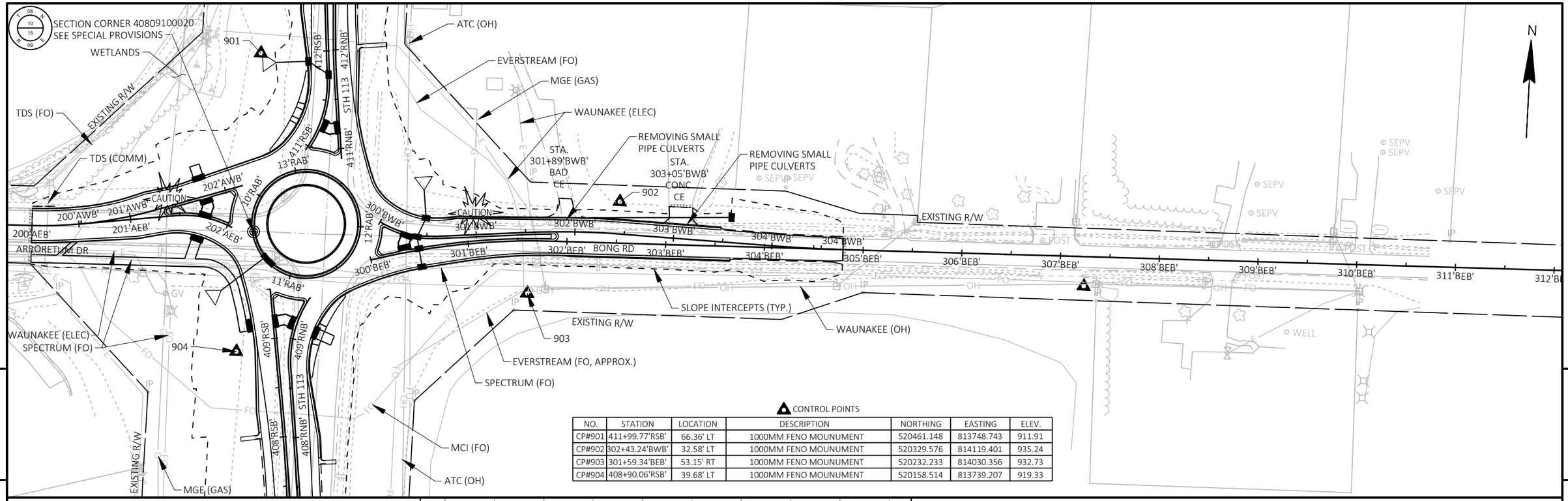


CONTROL POINTS

NO.	STATION	LOCATION	DESCRIPTION	NORTHING	EASTING	ELEV.
CP#901	411+99.77'RSB'	66.36' LT	1000MM FENO MOUNUMENT	520461.148	813748.743	911.91
CP#902	302+43.24'BWB'	32.58' LT	1000MM FENO MOUNUMENT	520329.576	814119.401	935.24
CP#903	301+59.34'BEB'	53.15' RT	1000MM FENO MOUNUMENT	520232.233	814030.356	932.73
CP#904	408+90.06'RSB'	39.68' LT	1000MM FENO MOUNUMENT	520158.514	813739.207	919.33

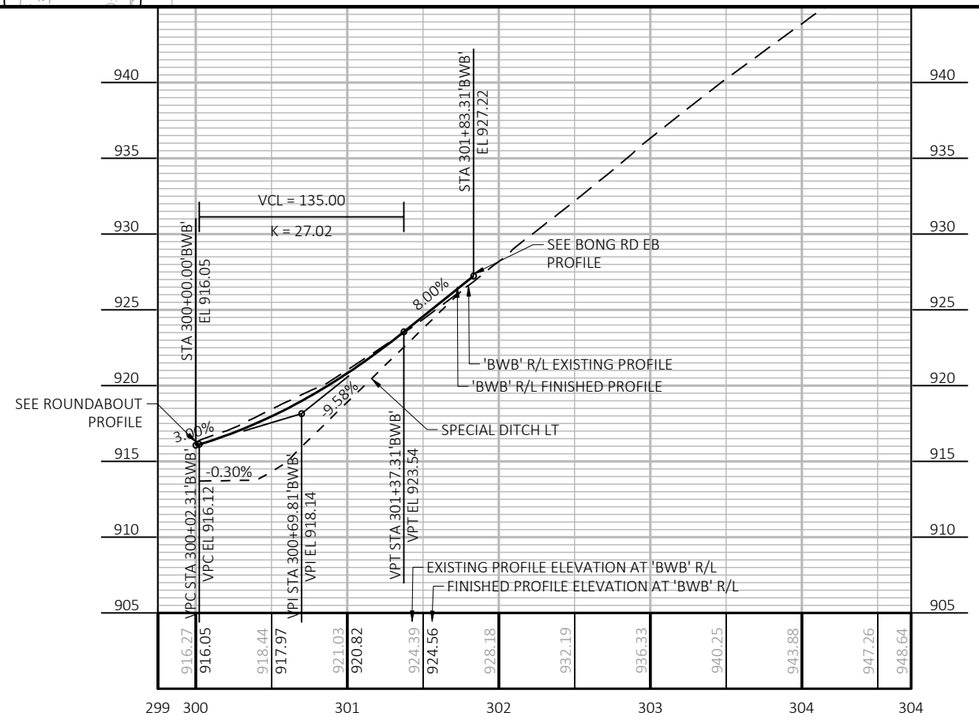


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: BONG RD EB	SHEET 215	E

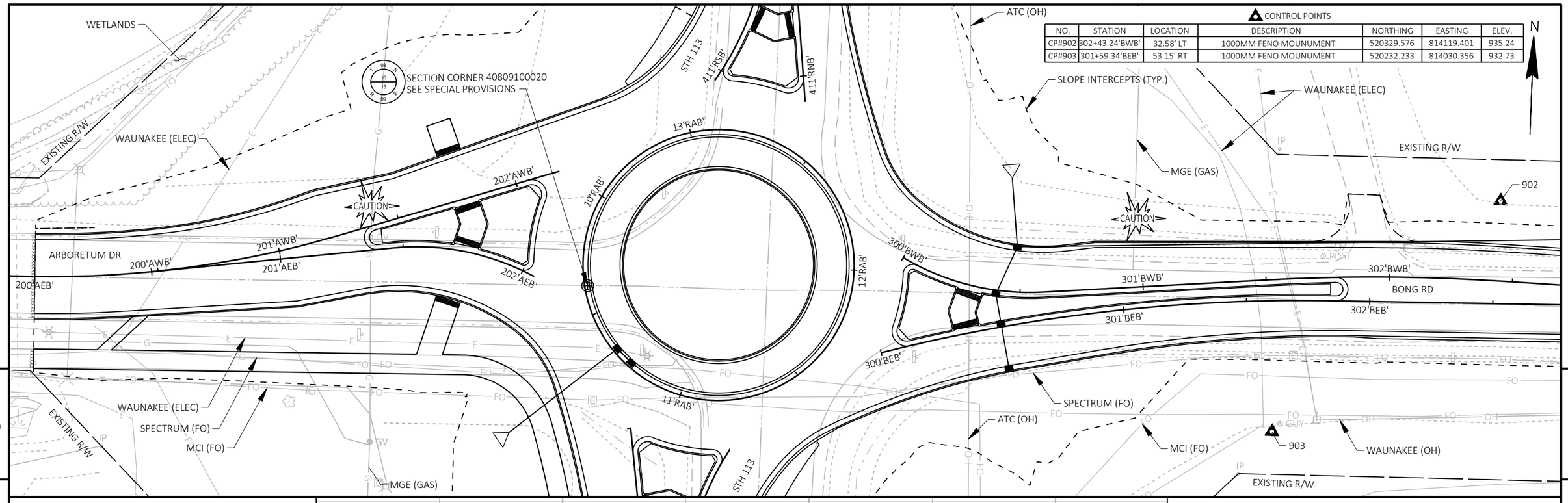


CONTROL POINTS

NO.	STATION	LOCATION	DESCRIPTION	NORTHING	EASTING	ELEV.
CP#901	411+99.77'RSB'	66.36' LT	1000MM FENO MOUNUMENT	520461.148	813748.743	911.91
CP#902	302+43.24'BWB'	32.58' LT	1000MM FENO MOUNUMENT	520329.576	814119.401	935.24
CP#903	301+59.34'BEB'	53.15' RT	1000MM FENO MOUNUMENT	520232.233	814030.356	932.73
CP#904	408+90.06'RSB'	39.68' LT	1000MM FENO MOUNUMENT	520158.514	813739.207	919.33

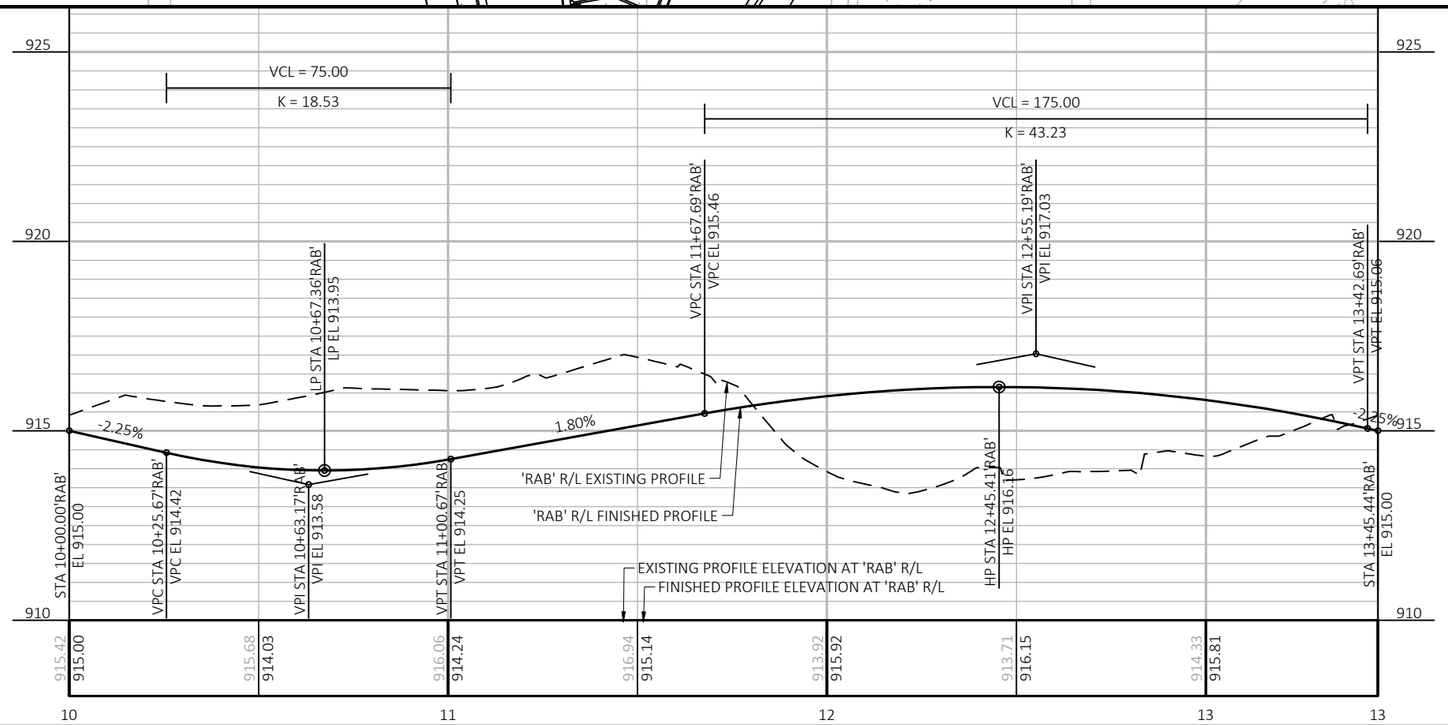


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: BONG RD WB	SHEET 216	E



CONTROL POINTS

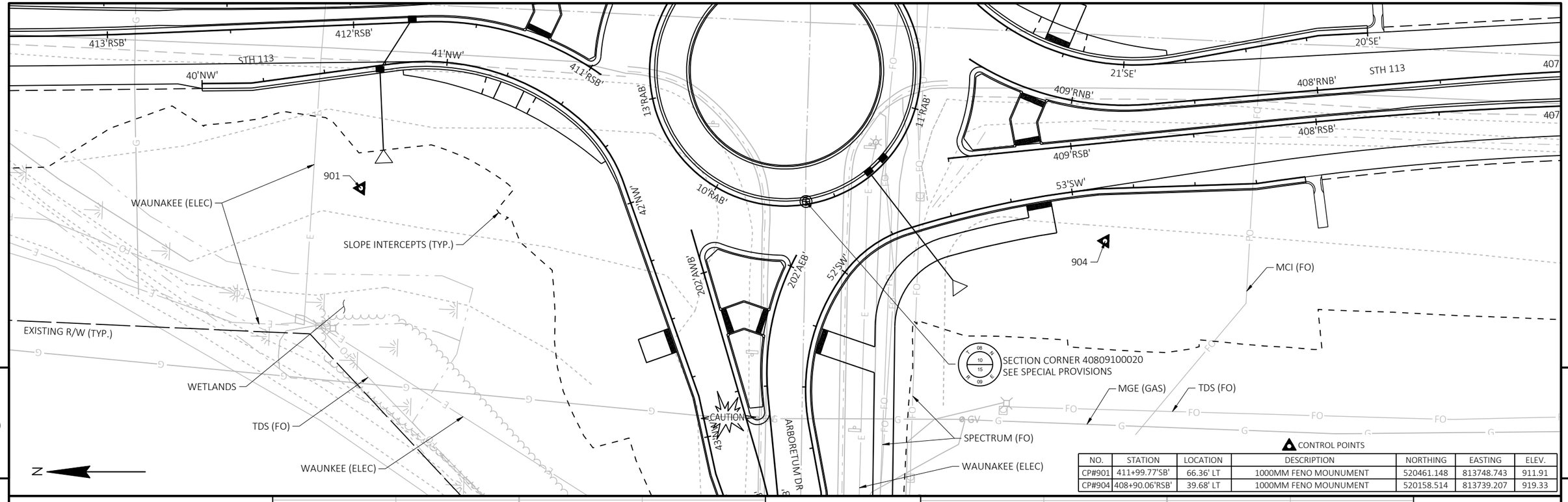
NO.	STATION	LOCATION	DESCRIPTION	NORTHING	EASTING	ELEV.
CP#902	302+43.24'BWB'	32.58' LT	1000MM FENO MOUNUMENT	520329.576	814119.401	935.24
CP#903	301+59.34'BEB'	53.15' RT	1000MM FENO MOUNUMENT	520232.233	814030.356	932.73

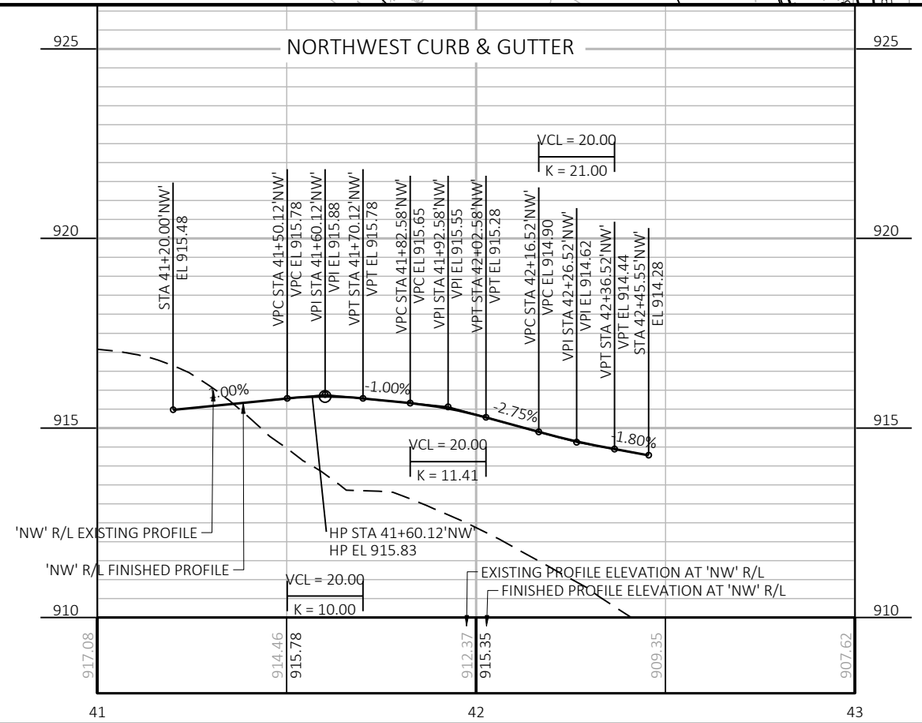


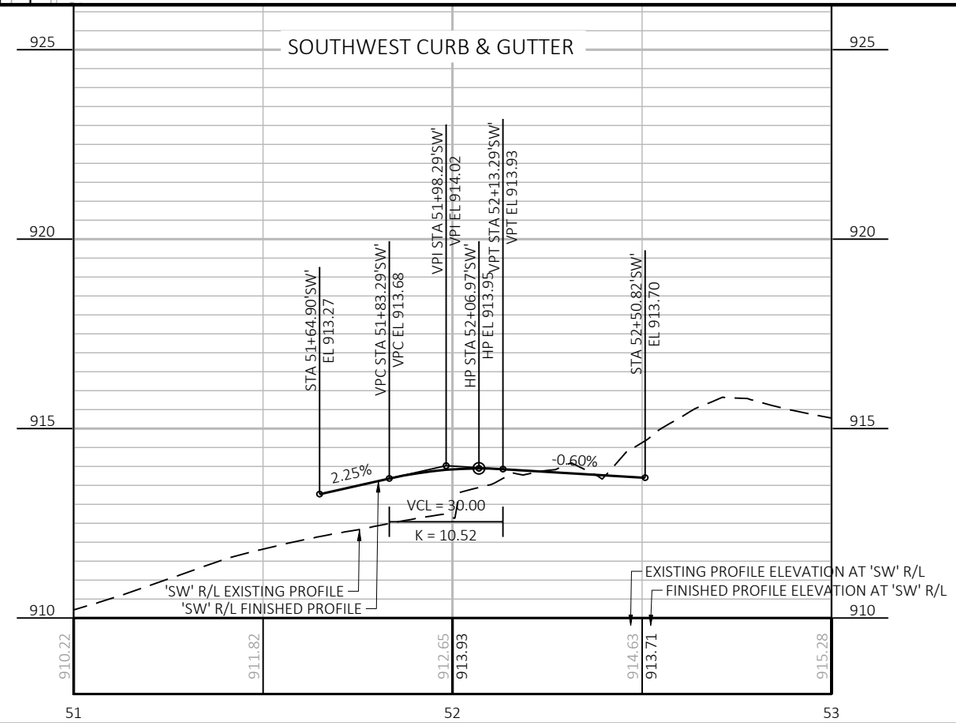
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: ROUNDABOUT	SHEET 217	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\050109-PP-RAB.DWG
LAYOUT NAME - 050101-pp

PLOT DATE : 10/27/2022 1:28 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:40 FT

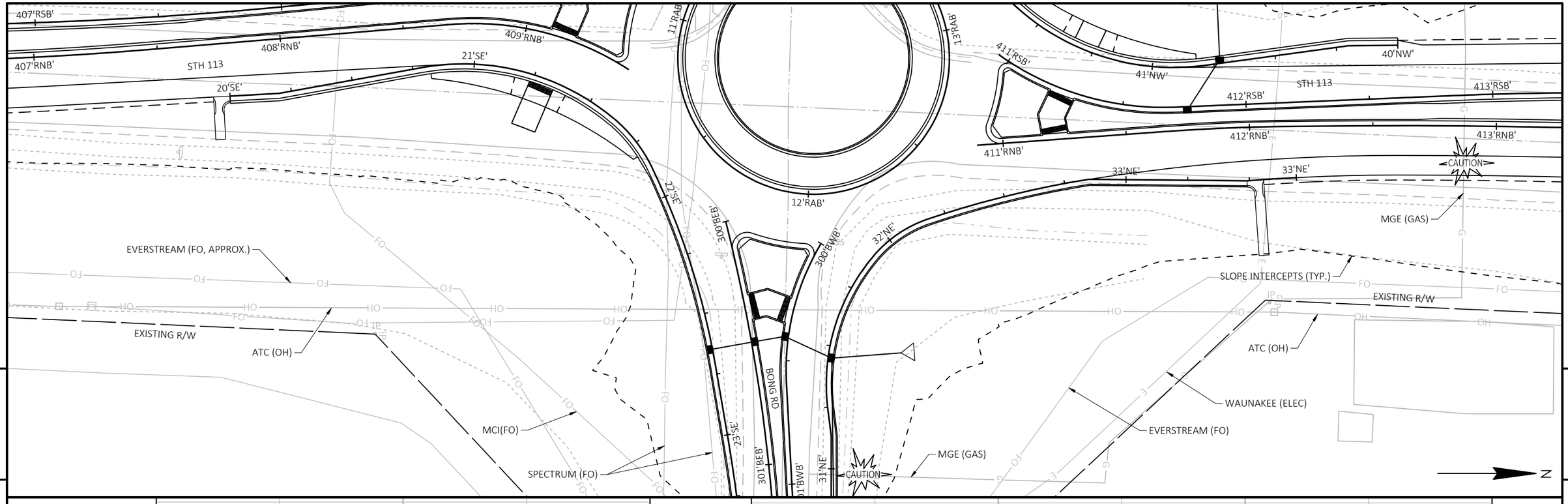






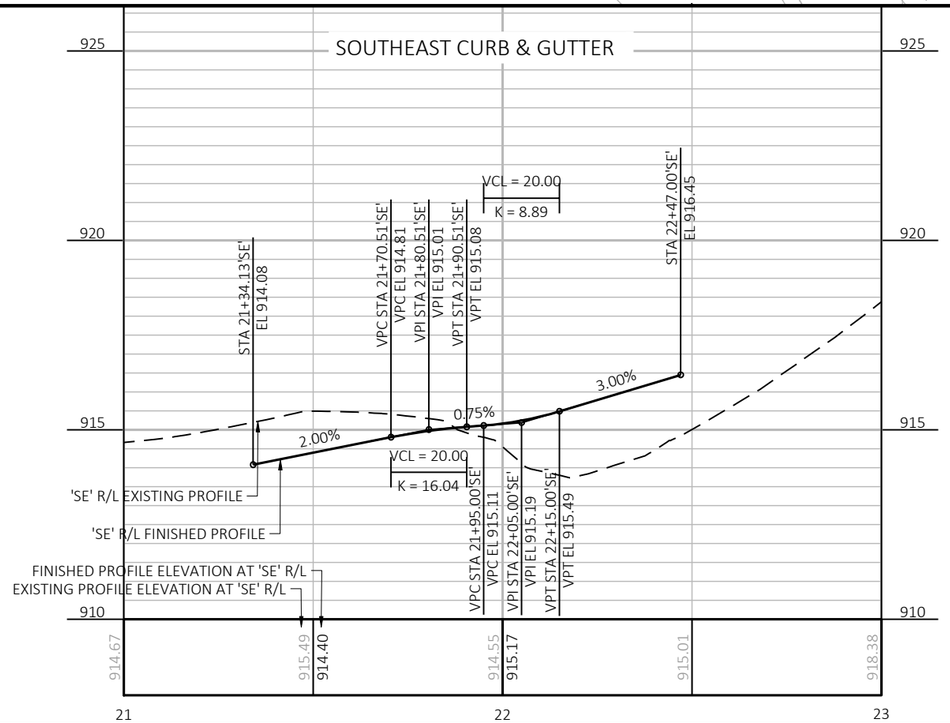
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: WEST CURB & GUTTER	SHEET 218	E

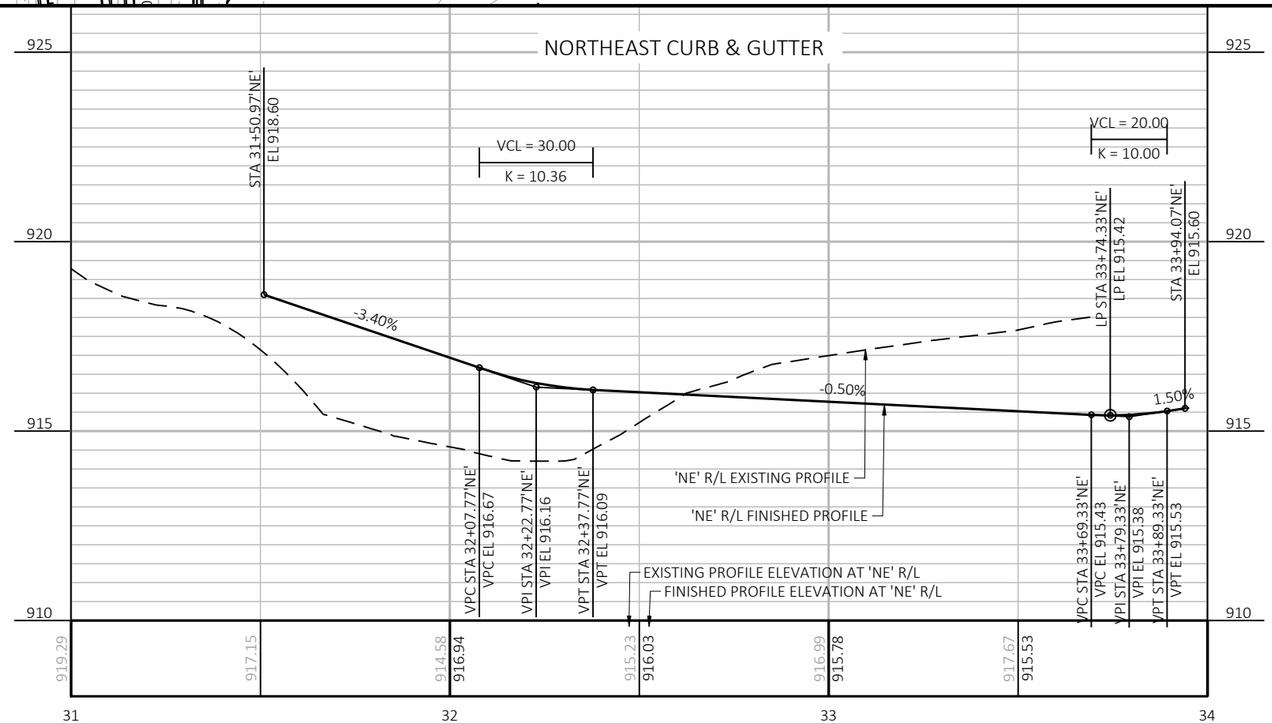
FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\050110-PP-WEST CG.DWG
LAYOUT NAME - 050101-pp
PLOT DATE : 10/27/2022 1:37 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:40 FT



5

5





PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	PLAN AND PROFILE: EAST CURB & GUTTER	SHEET 219	E

Standard Detail Drawing List

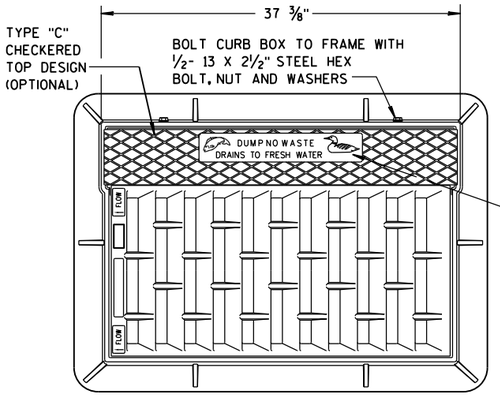
08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-03	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, 8-FT, 9-FT, 10-FT DIAMETER
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D02-07A	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-07B	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D02-07C	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08D04-06	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
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
08D15-05A	EDGEDRAIN OUTLET AND OUTFALL MARKERS
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
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
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F06-04	REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN
08F07-05	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09A01-13B	AT-GRADE SIDE ROAD INTERSECTION, TYPE "A1" & "A2"
09B02-10	CONDUIT
09B16-02	PULL BOX NON-CONDUCTIVE
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C14-03	CONCRETE CONTROL CABINET BASE, TYPE L
09C15-01	CONCRETE BASE TYPE 10 SPECIAL
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D04-03	LIGHTING CONTROL CABINET 120/240 VOLT
09E01-15A	POLE MOUNTINGS FOR TRAFFIC SIGNALS TYPE 2
09E01-15C	POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 4
09E01-15D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E01-15G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-06	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E07-06	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09E08-09H	TYPE 10 SPECIAL POLE 45' MONOTUBE ARM
09E08-09K	GENERAL NOTES,HARDWARE DETAILS FOR TYPE 9/10,9/10 SPECIAL,12 & 13 POLES W/MONOTUBE ARMS
09F15-04A	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)
09F15-04B	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
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
11B01-05	CONCRETE CORRUGATED MEDIAN
11B02-02	CONCRETE MEDIAN NOSE
13A05-05A	SHOULDER RUMBLE STRIP, MILLING
13A05-05B	SHOULDER RUMBLE STRIP, MILLING
13A10-02A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02B	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

6

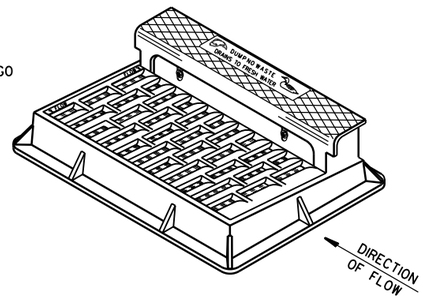
Standard Detail Drawing List

13A10-02D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C19-03	HMA LONGITUDINAL JOINTS
14B29-01	SAFETY EDGE
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-08C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C02-08E	OFF RAMP LANE CLOSURE
15C02-08F	ADVANCED WIDTH RESTRICTION SIGNING
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-15A	PAVEMENT MARKING SYMBOLS
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C07-15E	PAVEMENT MARKING FOR BIKE LANES
15C08-22A	LONGITUDINAL MARKING (MAINLINE)
15C08-22B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-22C	PAVEMENT MARKING (TURN LANES)
15C08-22D	PAVEMENT MARKING (TURN LANES)
15C11-09A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C18-06A	MEDIAN ISLAND MARKING PAVEMENT MARKINGS
15C18-06B	MEDIAN ISLAND MARKING MEDIAN ISLAND NOSE
15C18-06C	MEDIAN PAVEMENT MARKINGS DOUBLE ARROW WARNING SIGN PLACEMENT
15C19-07A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-07C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C21-10	SIGNING AND MARKING FOR TWO LANE TO FOUR LANE DIVIDED TRANSITIONS
15C29-07A	BICYCLE LANE MARKING
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-05A	PAVEMENT MARKING (INTERSECTIONS)
15D06-05	TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION
15D12-10A	TRAFFIC CONTROL, LANE CLOSURE
15D20-06A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
16A01-07	LANDMARK REFERENCE MONUMENTS AND COVERS

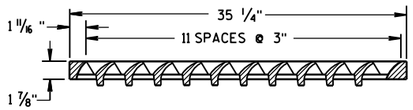
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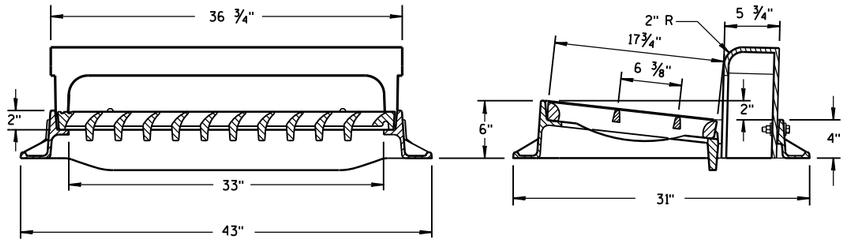


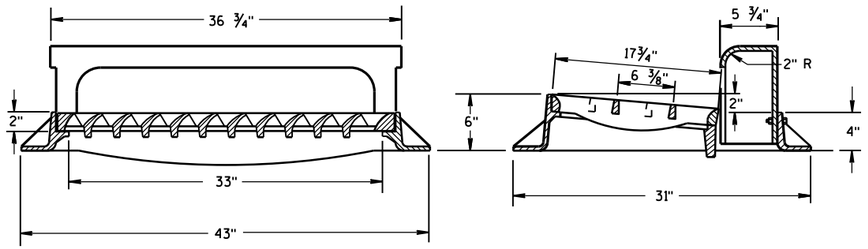
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

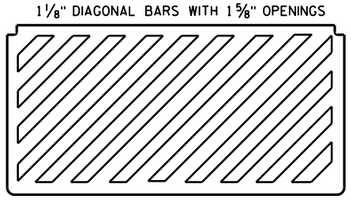






TYPE "H"

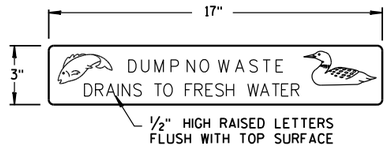
NOTE: EITHER CASTING IS ACCEPTABLE



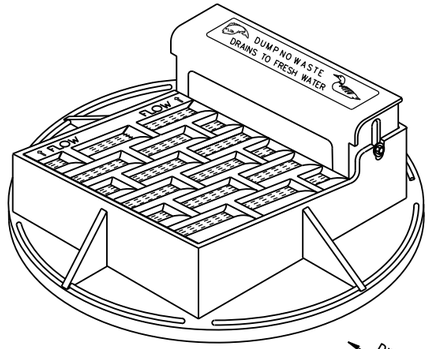
SPECIAL GRATE FOR TYPE "H" COVER

(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"

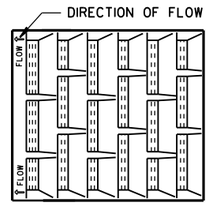
NOTE:
GRATE IS REVERSIBLE.

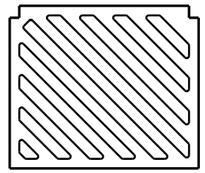
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

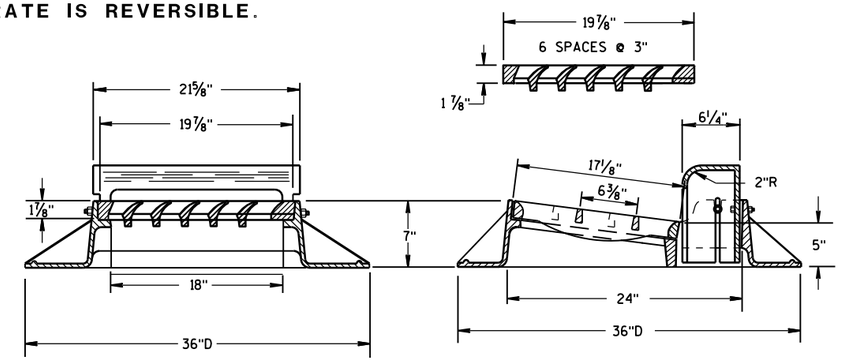




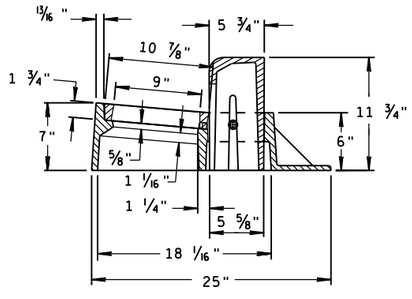
SPECIAL GRATE FOR TYPE "A" COVER

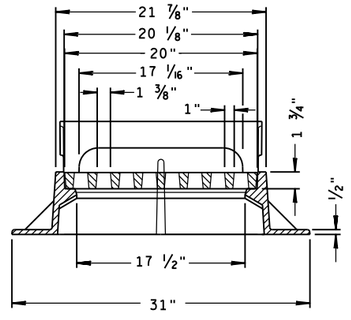
(MEASURES 19 3/4" X 17" X 1 7/8")

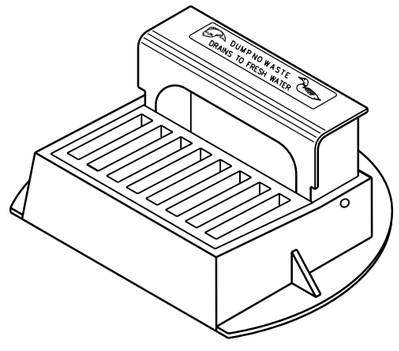
(NOTED AS TYPE A-S ON DRAINAGE TABLE)



TYPE "A"







TYPE "Z"

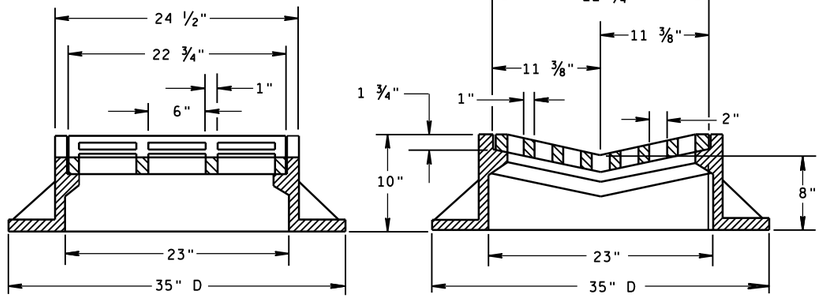
INLET COVERS
TYPE A, H, A-S, H-S & Z

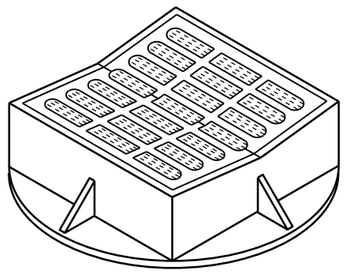
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

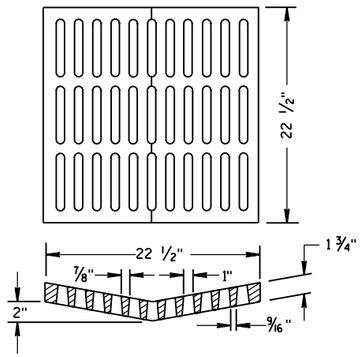
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S.D.D. 8 A 5-19a



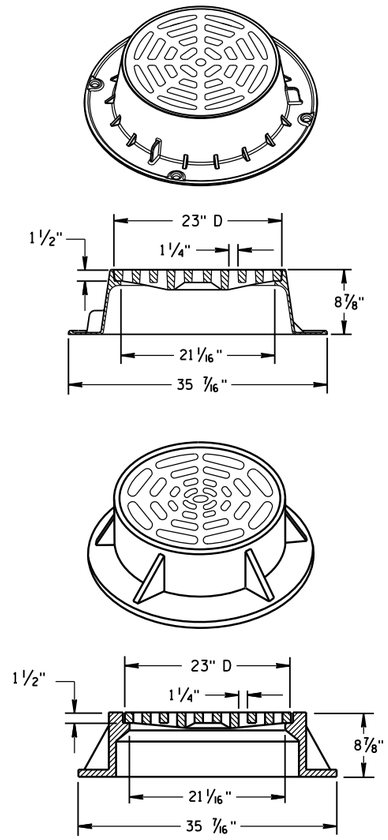


TYPE "B"



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"

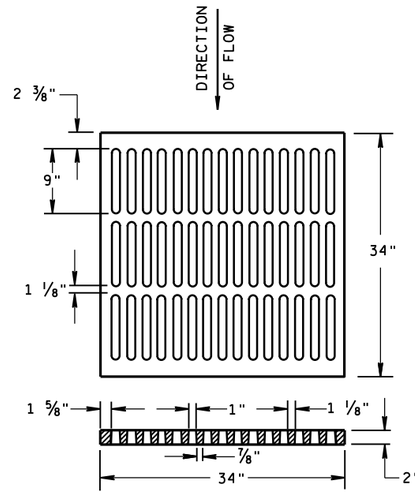
NOTE: EITHER CASTING IS ACCEPTABLE

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.

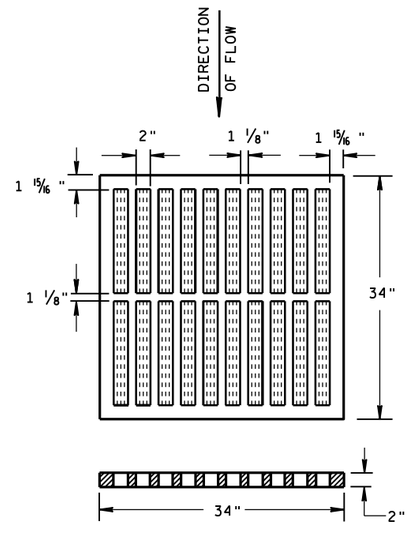
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



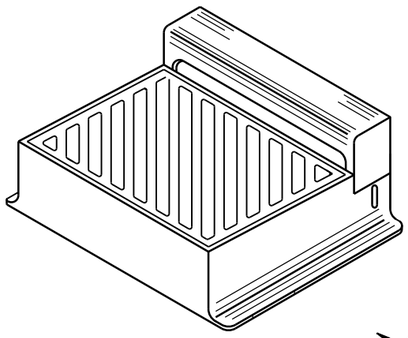
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

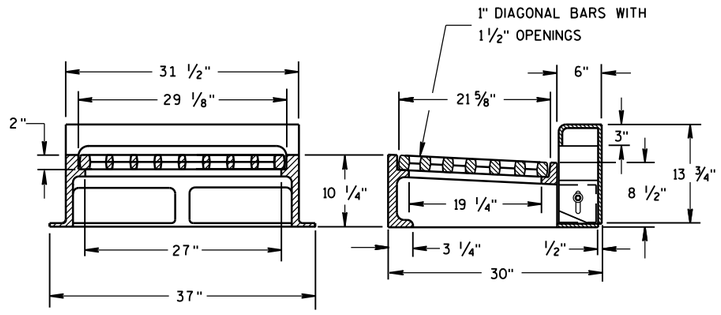


TYPE "MS"

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"

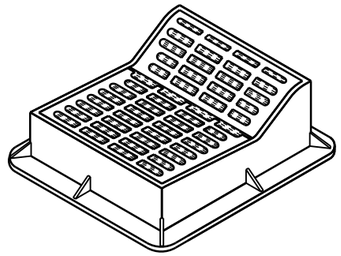
INLET COVERS
TYPE B, B-A, C,
MS, MS-A, & WM

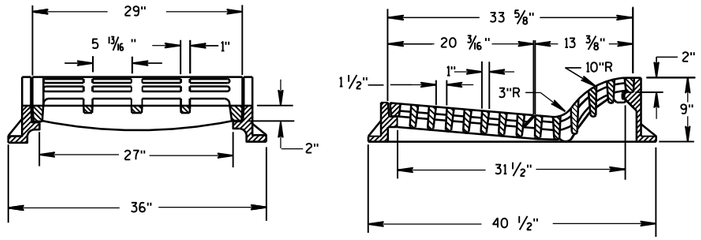
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

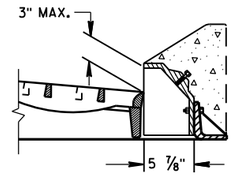
S.D.D. 8 A 5-19b





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

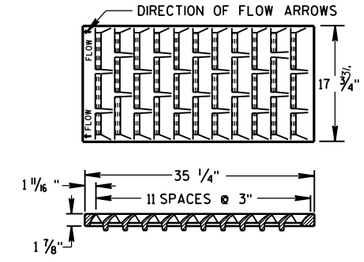
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

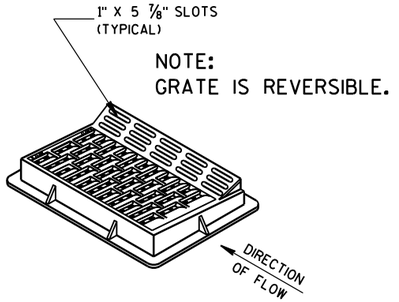
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

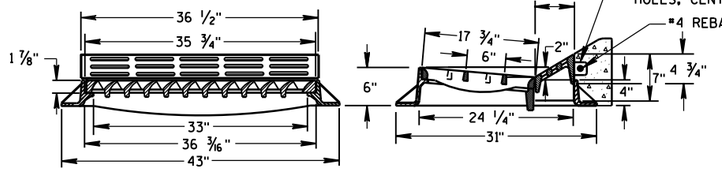
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



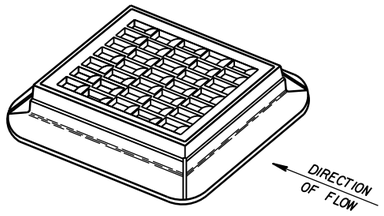


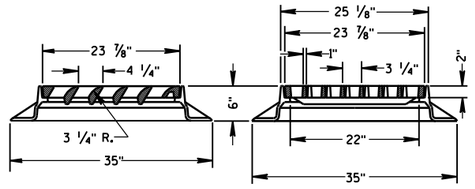


TYPE "HM"

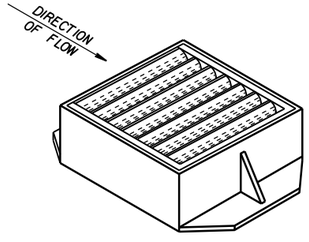
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

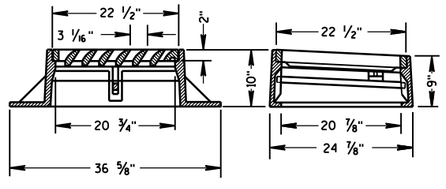
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



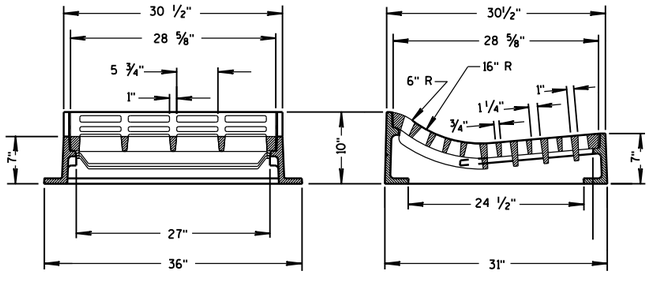


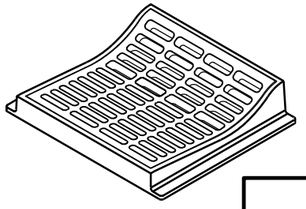
TYPE "S"





TYPE "V"





TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.

INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE

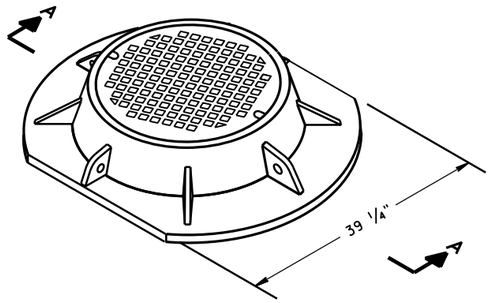
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

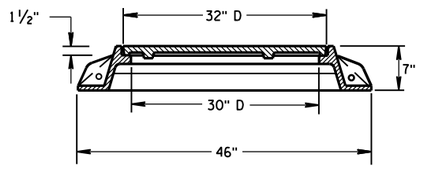
224

FHWA

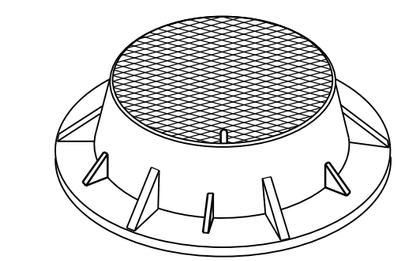
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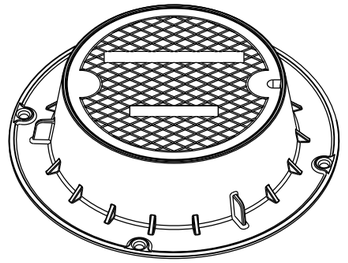
S.D.D. 8 A 5-19c

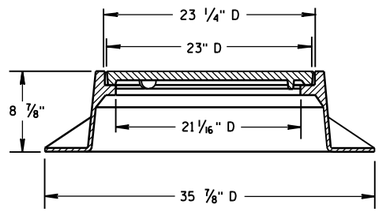


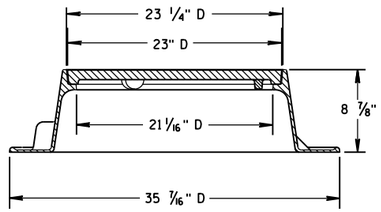


SECTION A-A
TYPE "K"









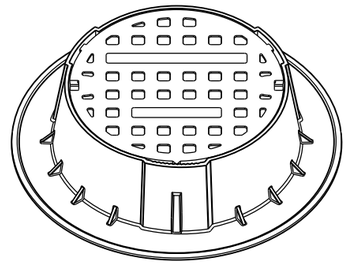
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

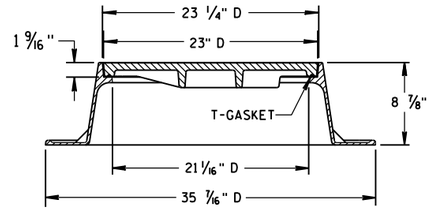
GENERAL NOTES

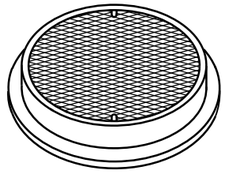
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

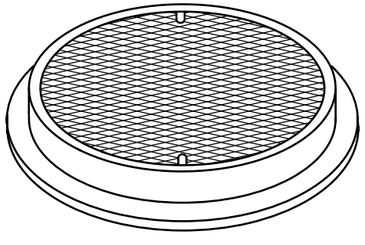
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

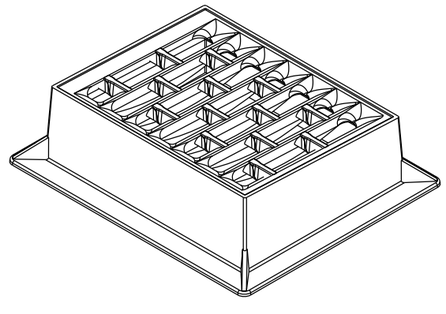
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

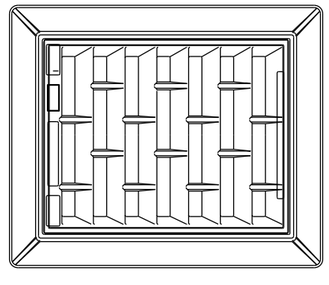


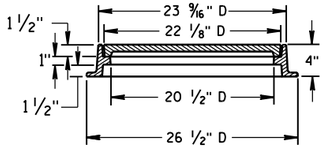




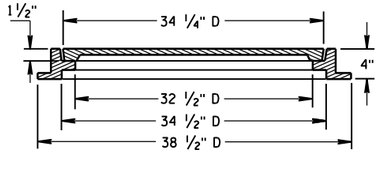




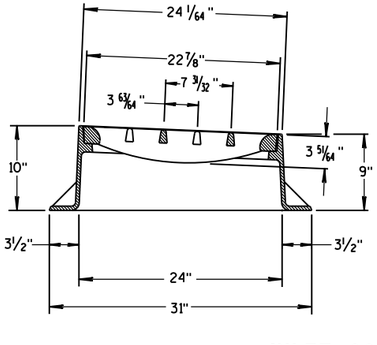


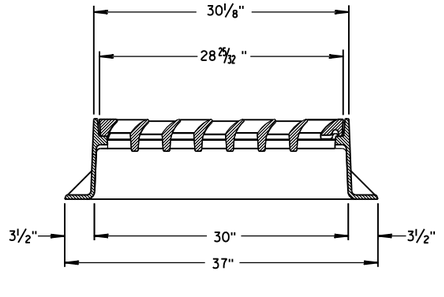


TYPE "L"

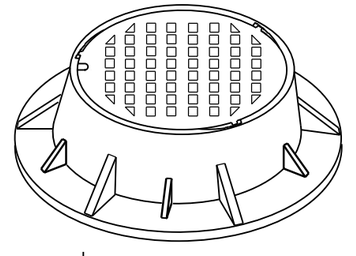


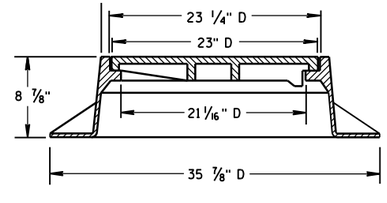
TYPE "M"





INLET COVER TYPE "BW"





TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE

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

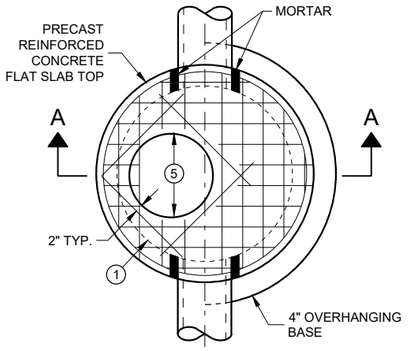
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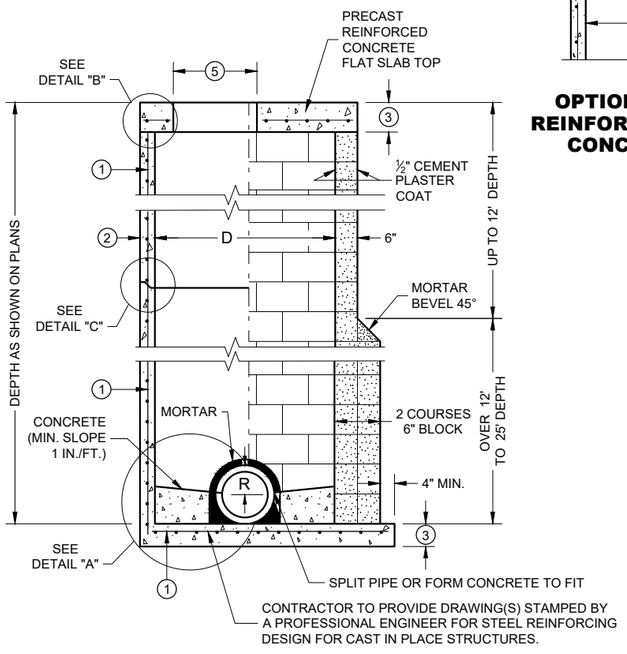
S.D.D. 8 A 5-19d

6

S.D.D. 8 A 5-19d



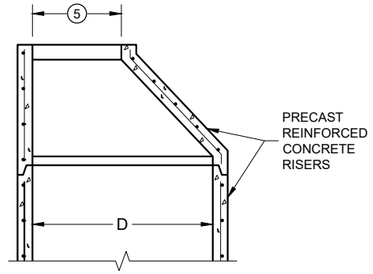
PLAN VIEW
CIRCULAR OPENING



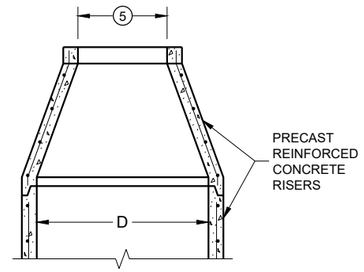
SECTION A - A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)



OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP



OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

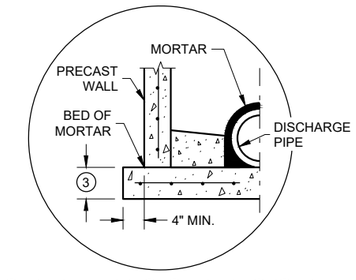
MANHOLE COVER OPENING MATRIX

OPENING SIZE (FT.) \ MANHOLE COVER TYPE	C	ALL J'S	K	L	M
2 DIA.	X	X		X	
3 DIA.			X		X

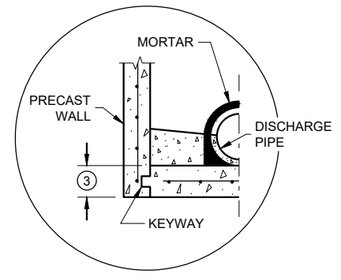
PIPE MATRIX

MANHOLE SIZE (DIA.)	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES		MINIMUM WALL THICKNESS (IN)	MINIMUM PRECAST FLAT SLAB TOP AND BASE THICKNESS
	180° SEPARATION (IN)	90° SEPARATION (IN)		
3-FT	15	12	4	6
4-FT	24	18	4	6
5-FT	36	24	5	8
6-FT	42	36	6	8
7-FT	48	36/42*	7	8
8-FT	60	42	8	8
9-FT	66	54	9	10
10-FT	72	60	10	10

*A 36" PIPE AND A 42" PIPE CAN BE PLACED WITHIN 90 DEGREES.
SEE MINIMUM HORIZONTAL PIPE SEPARATION DETAIL.

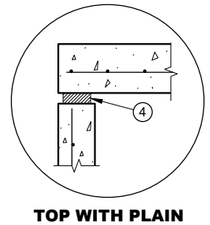


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

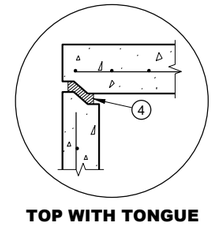


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

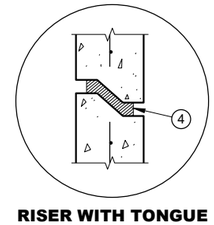
DETAIL "A"



TOP WITH PLAIN END JOINT



TOP WITH TONGUE AND GROOVE JOINT



RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B" **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 CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES. CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITTED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "D".

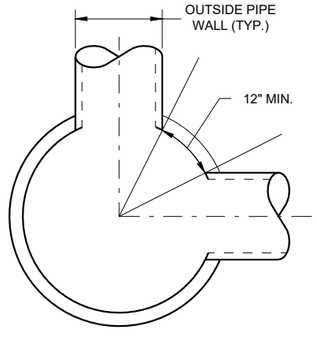
(1) FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

(2) SEE PIPE MATRIX TABLE FOR MINIMUM WALL THICKNESS FOR PRECAST MANHOLES

(3) SEE PIPE MATRIX TABLE FOR MINIMUM THICKNESS OF PRECAST FLAT SLAB TOPS AND BASES.

(4) JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP.).

(5) SEE MANHOLE COVER OPENING MATRIX.

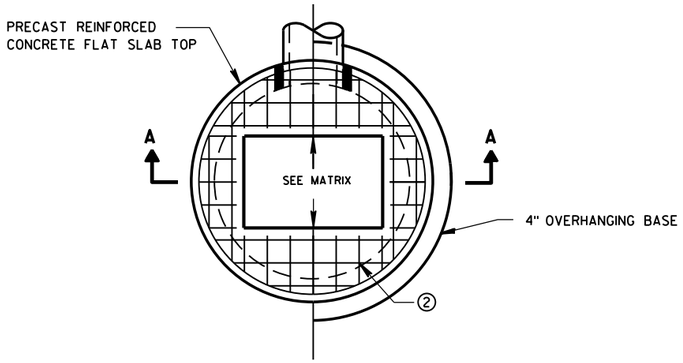


MINIMUM HORIZONTAL PIPE SEPARATION

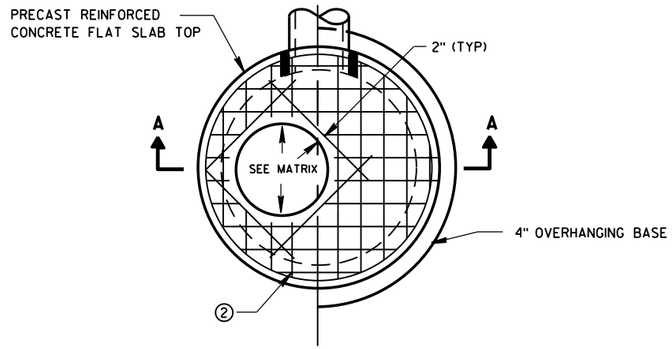
MANHOLES, 3-FT, 4-FT 5-FT, 6-FT, 7-FT, 8-FT, 9-FT AND 10-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

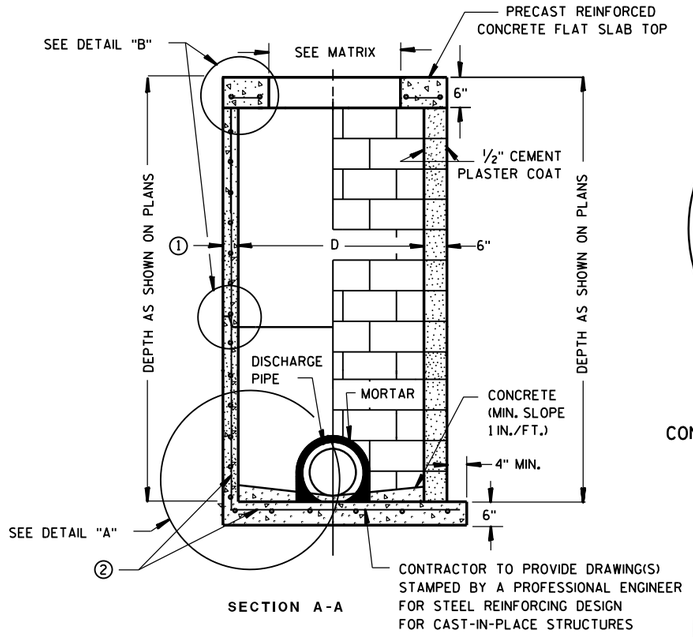
APPROVED
November 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
226
FHWA



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

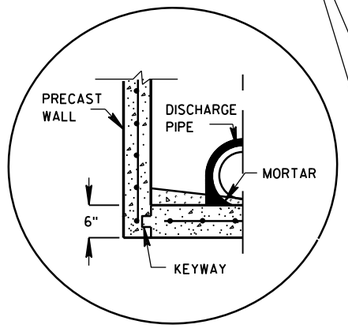


SECTION A-A

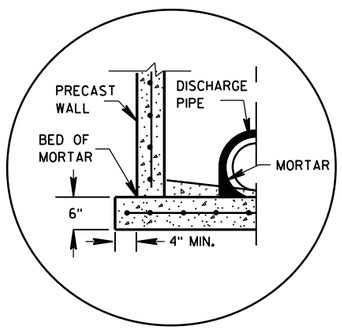
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

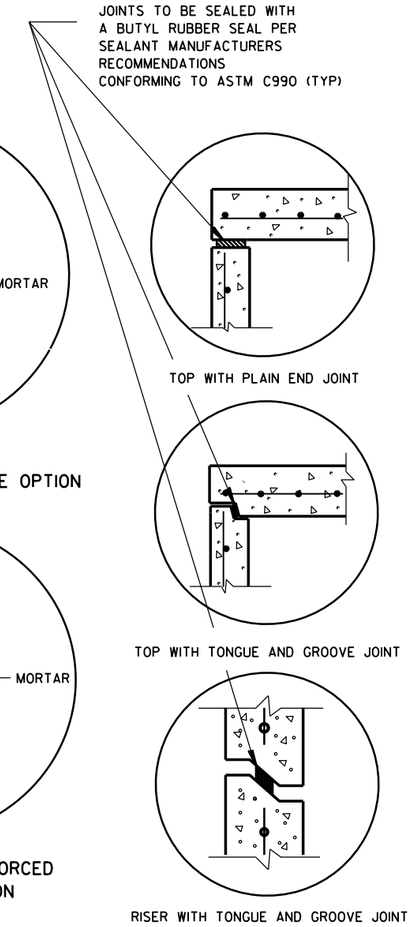


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

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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.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

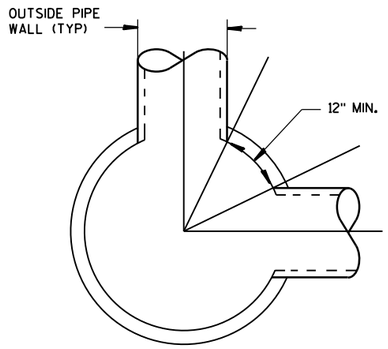
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

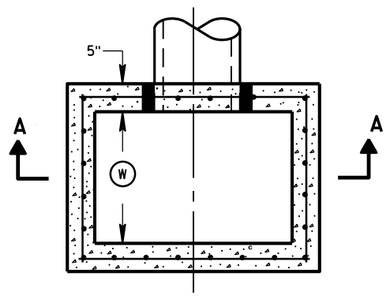
APPROVED
Sept.. 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS | UNIT SUPERVI ENT
FHWA

6

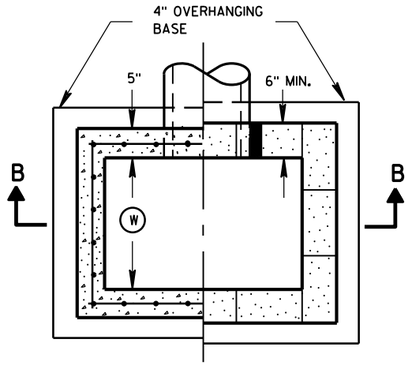
S.D.D. 8 C 6-2

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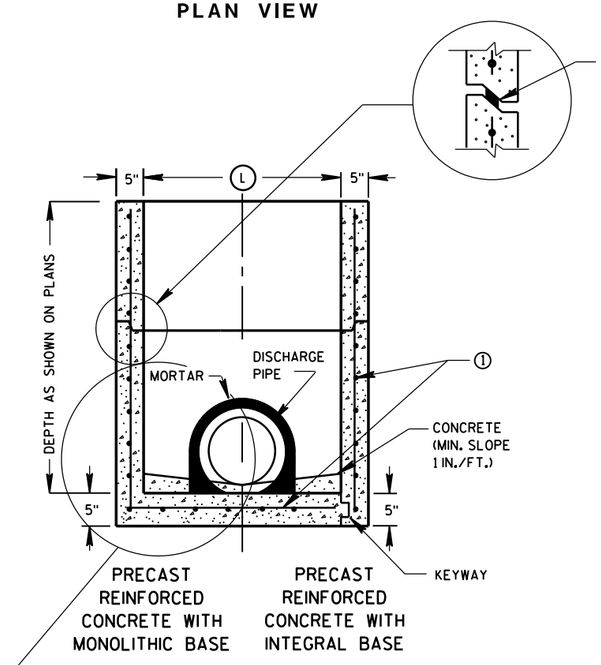
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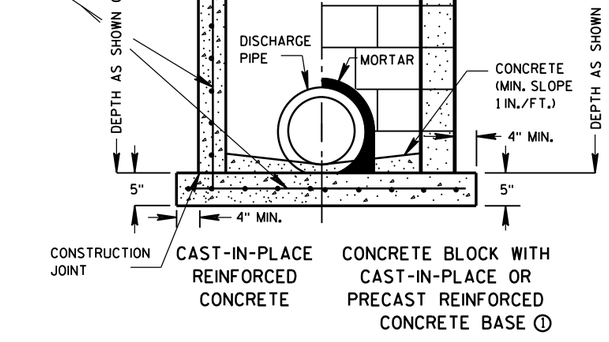
PLAN VIEW



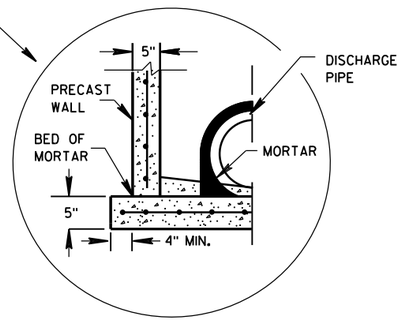
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

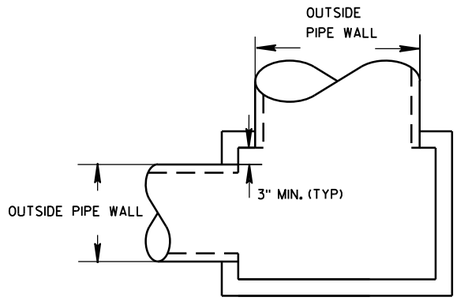
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



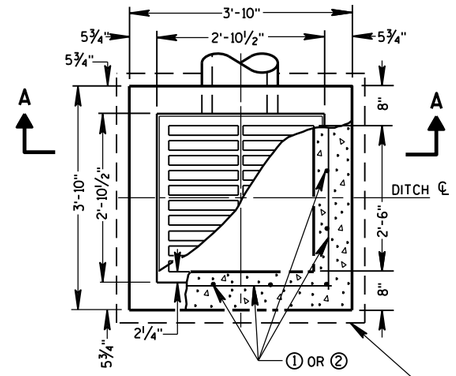
DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

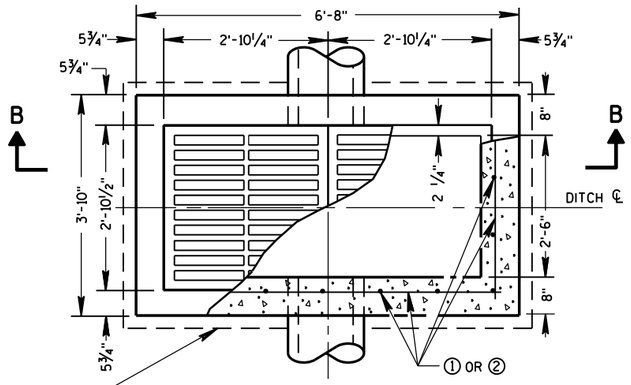
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D IT UNIT SUPERVIS
FHWA

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

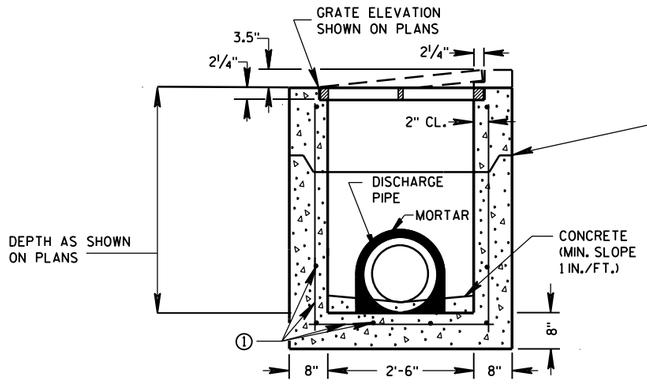


PLAN VIEW

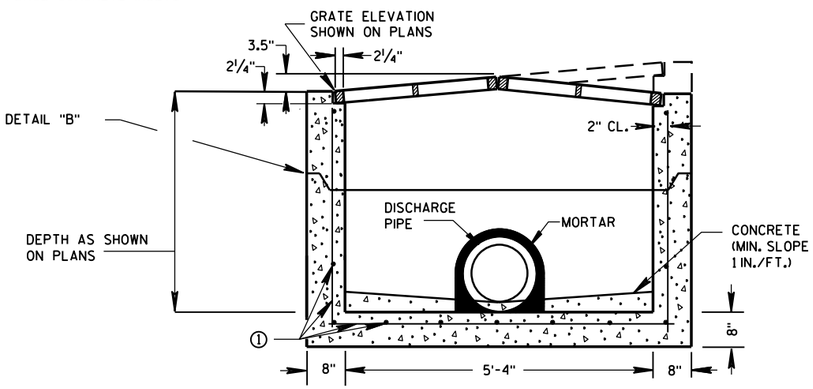


PLAN VIEW

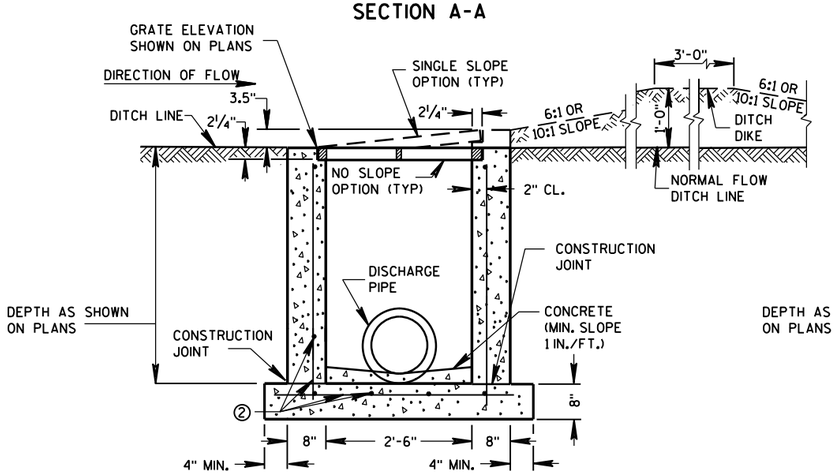
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



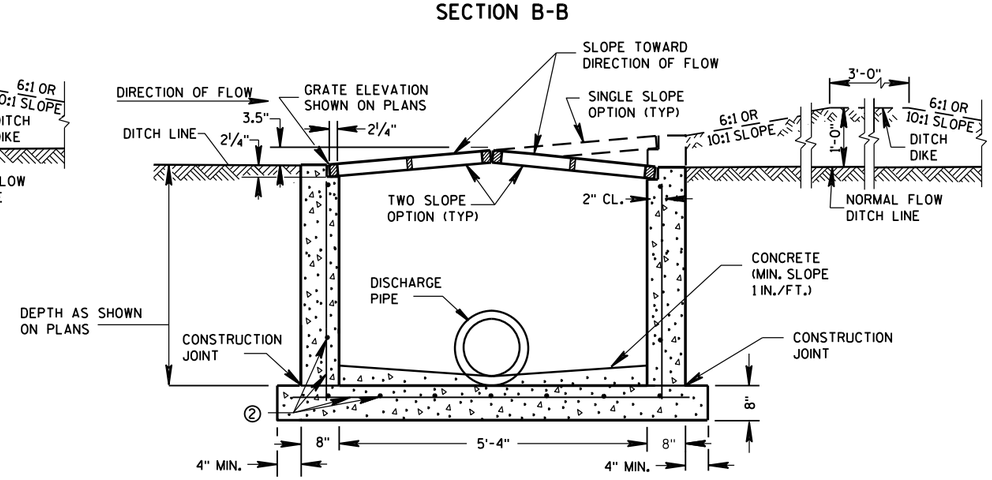
PRECAST REINFORCED CONCRETE SECTION A-A



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.

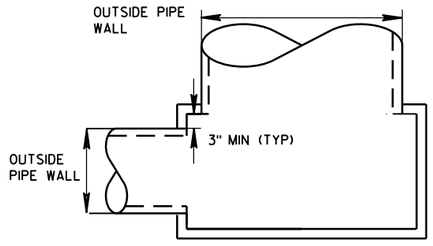
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

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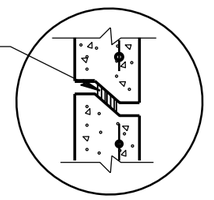
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



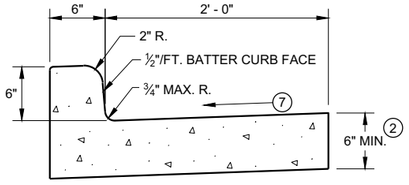
DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

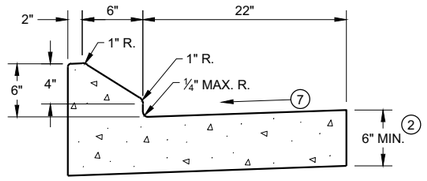
STATE OF WISCONSIN
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Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVI ENT
FHWA

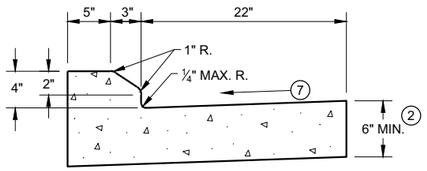
6
S.D.D. 8 C 8-2



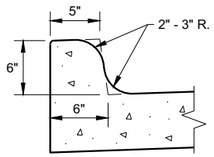
TYPES A (1) & D



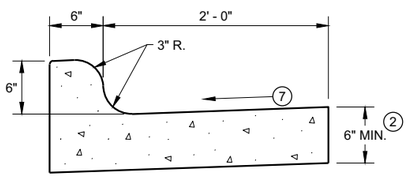
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

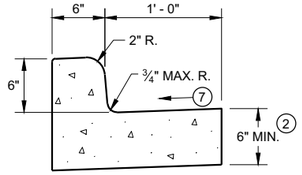


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



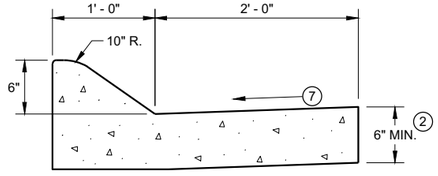
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

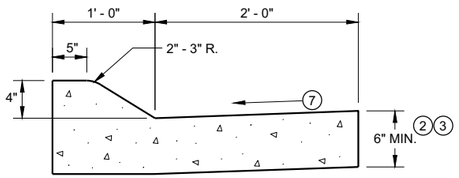


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

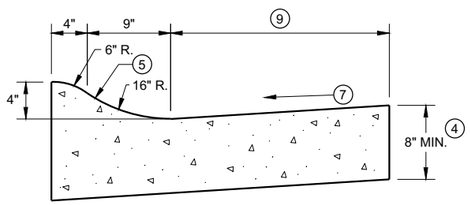


6" SLOPED CURB TYPES A (1) & D



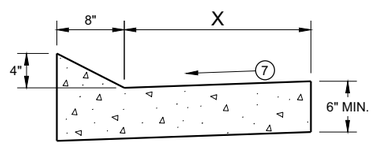
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

TBT & TBTT	X
30"	22"
36"	28"

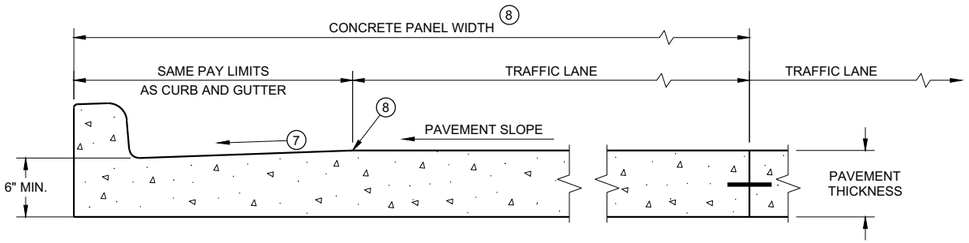


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

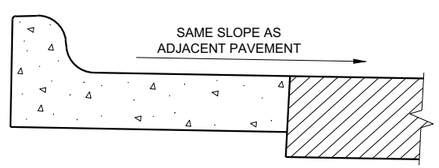
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION 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 AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

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 GUTTERS 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) UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES 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.

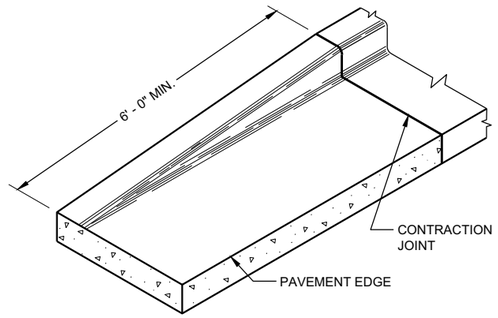
(9) CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

CONCRETE CURB AND GUTTER

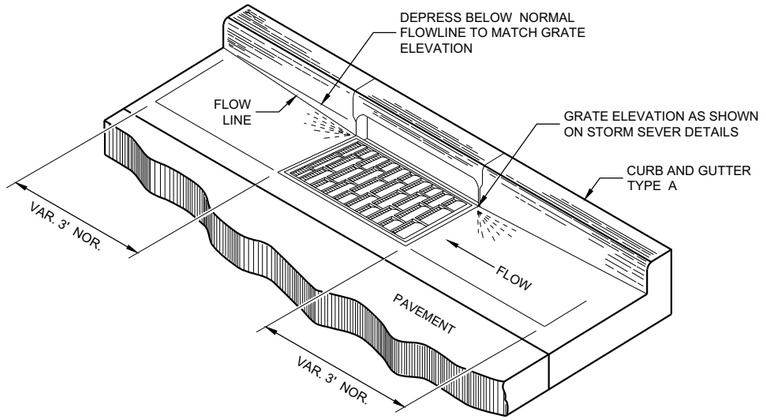
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D01 - 22a
SDD 08D01 - 22a



END SECTIONCURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

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

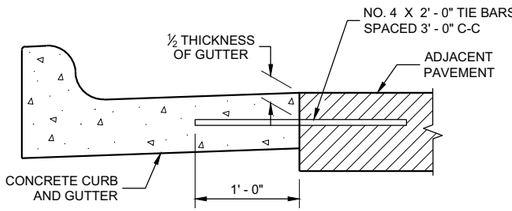
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

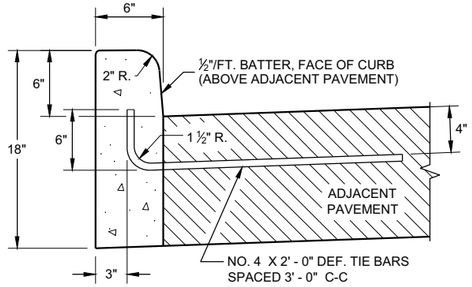
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(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.

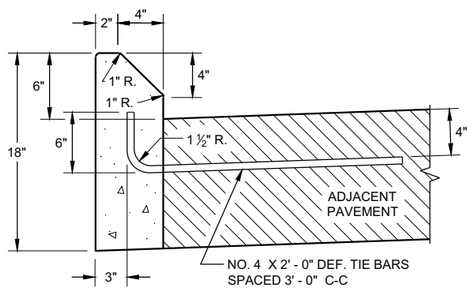
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

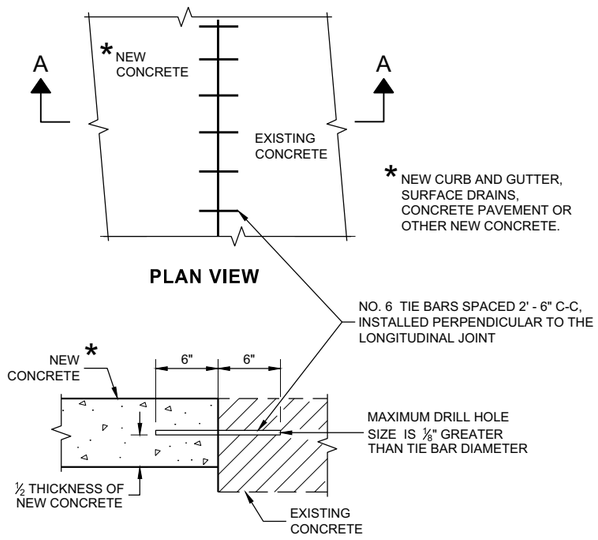


TYPES A (1) & D



TYPES G (1) & J

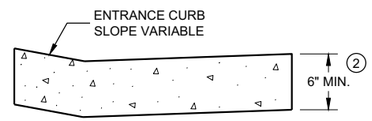
CONCRETE CURB



PLAN VIEW

SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVE ENGINEER

FHWA

6

SDD08D01 - 22b

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.

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

(1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

(2) NO. 4 X 2' - 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.

(3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.

(4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02.

(5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.

(6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.

(7) PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)

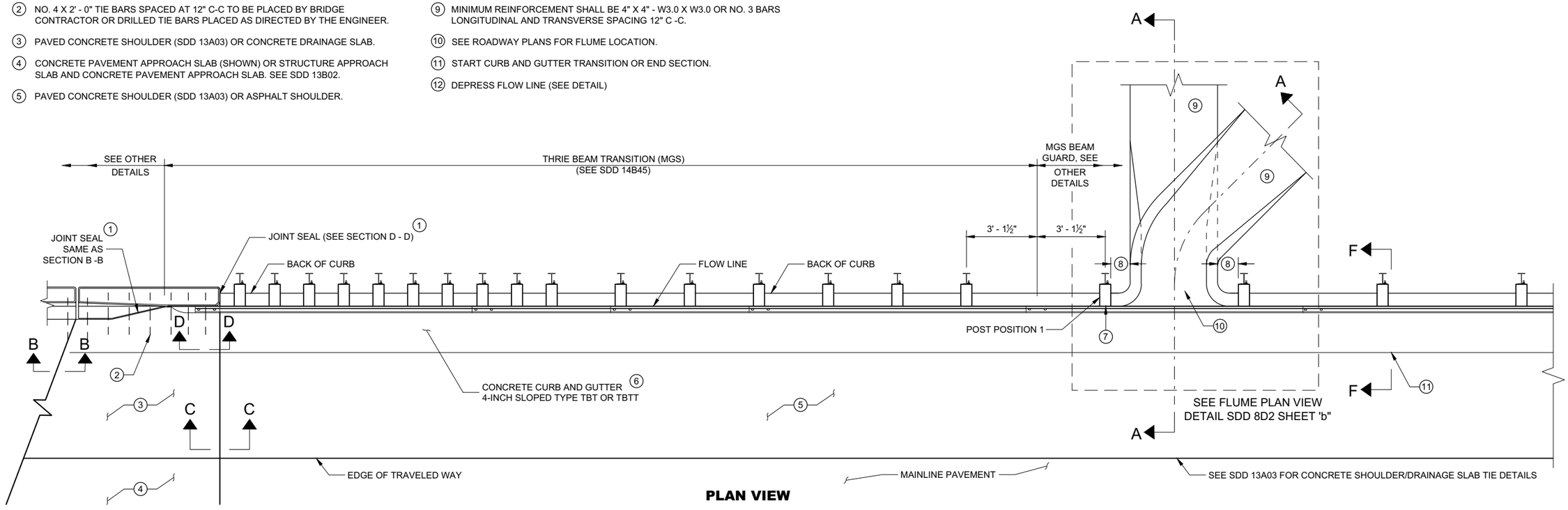
(8) CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.

(9) MINIMUM REINFORCEMENT SHALL BE 4" X 4" - W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.

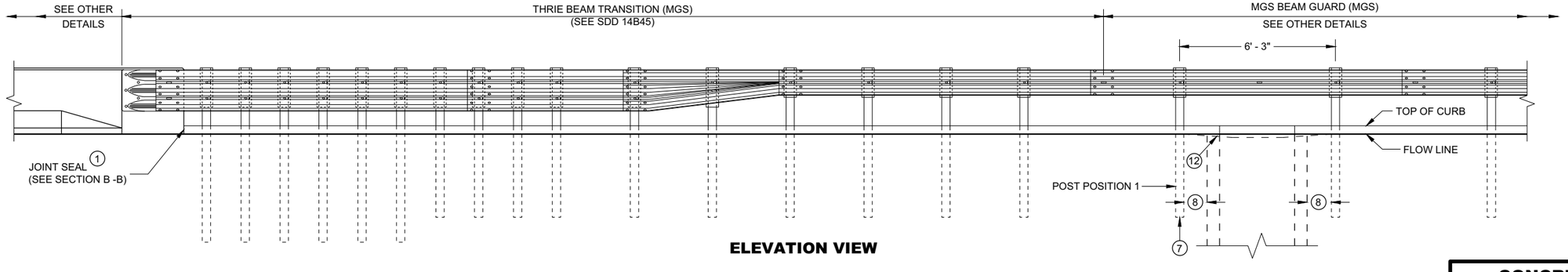
(10) SEE ROADWAY PLANS FOR FLUME LOCATION.

(11) START CURB AND GUTTER TRANSITION OR END SECTION.

(12) DEPRESS FLOW LINE (SEE DETAIL)



PLAN VIEW



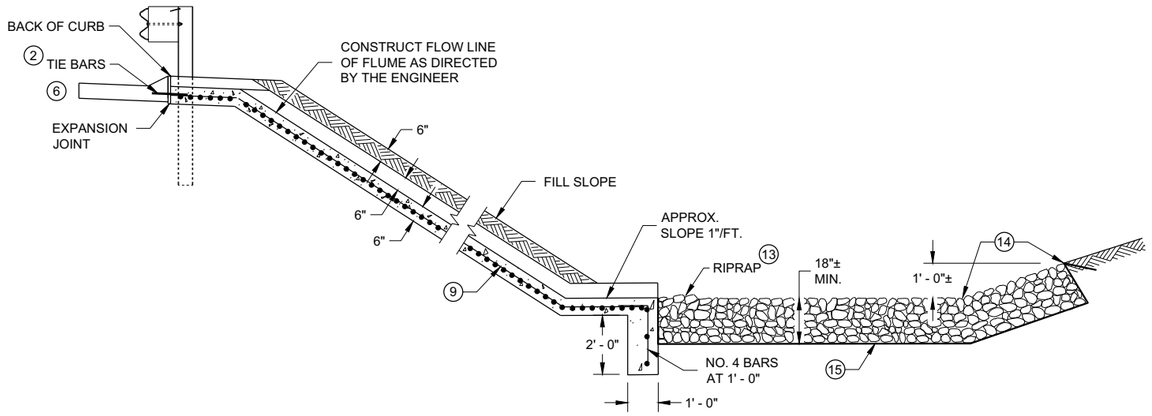
ELEVATION VIEW

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

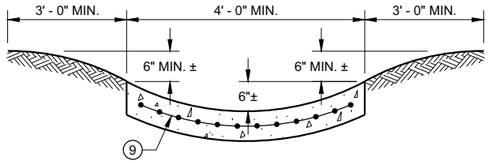
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 08D02 - 07a

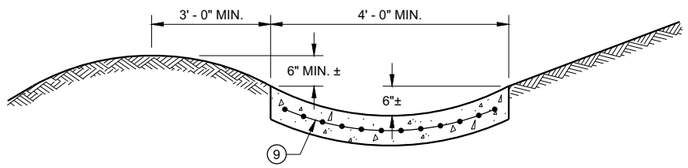
SDD 08D02 - 07a



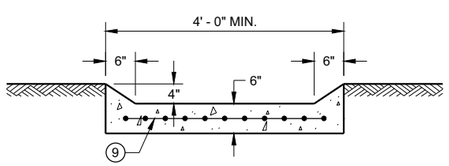
SECTION A - A



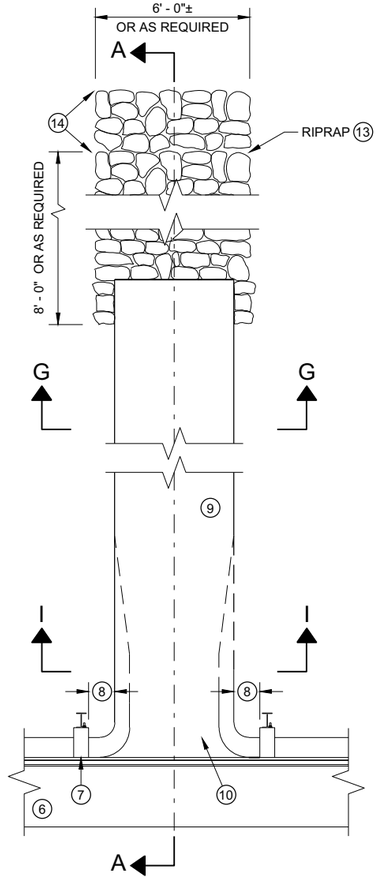
SECTION G - G



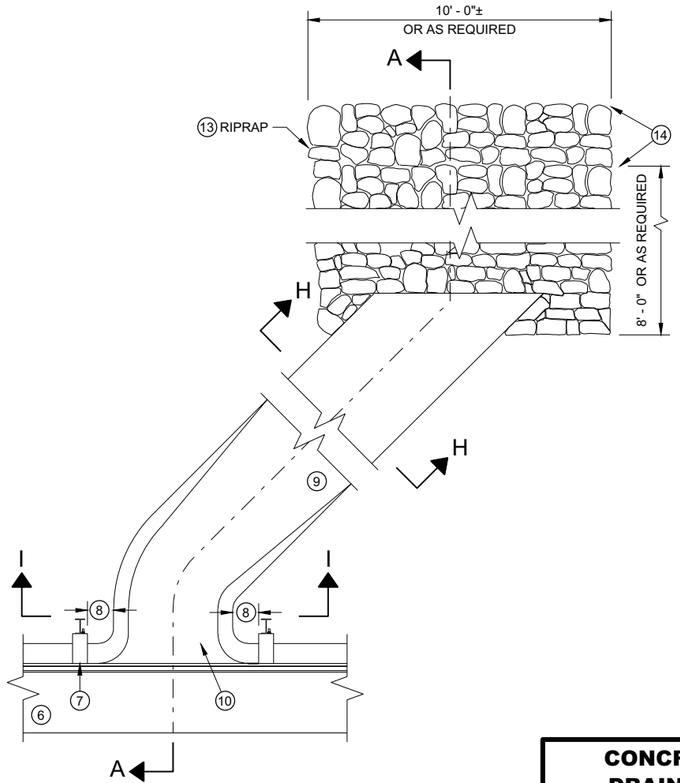
SECTION H - H



SECTION I - I



PLAN VIEW PERPENDICULAR FLUME



PLAN VIEW SKEWED FLUME

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.

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

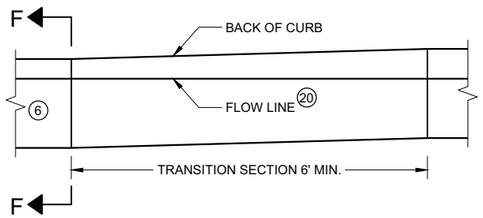
1. USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.
2. NO. 4 X 2' - 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.
3. PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.
4. CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02 AND STRUCTURE PLANS.
5. PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.
6. CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.
7. PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)
8. CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.
9. MINIMUM REINFORCEMENT SHALL BE 4" X 4" - W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.
10. SEE ROADWAY PLANS FOR FLUME LOCATION.
11. START CURB AND GUTTER TRANSITION OR END SECTION.
12. DEPRESS FLOW LINE (SEE DETAIL)
13. MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.
14. LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH AS REQUIRED.
15. GEOTEXTILE FABRIC TYPE HR.

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

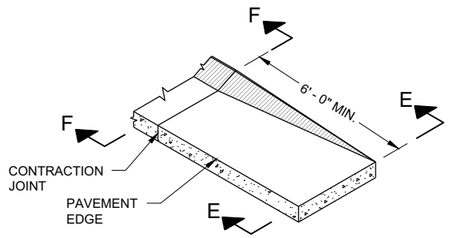
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

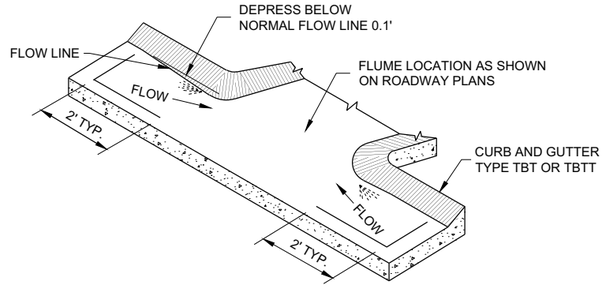
SDD 08D02 - 07b
SDD 08D02 - 07b



CURB AND GUTTER TRANSITION SECTION
CONCRETE CURB AND GUTTER 4-INCH SLOPED
36 INCH TYPE TBT OR TBTT



CURB AND GUTTER END SECTION
CONCRETE CURB AND GUTTER 4-INCH SLOPED
36 INCH TYPE TBT OR TBTT



CURB AND GUTTER FLOW LINE DEPRESSION
AT FLUMES CONCRETE CURB AND GUTTER
4-INCH SLOPED 36 INCH TYPE TBT OR TBTT

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.

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

(1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

(2) NO. 4 X 2' - 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.

(3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.

(4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02 AND STRUCTURE PLANS.

(5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.

(6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.

(7) PLACE FLUME BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)

(8) CENTER FLUME BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE EDGE OF FLUME TO POSTS.

(9) MINIMUM REINFORCEMENT SHALL BE 4" X 4" - W3.0 X W3.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C -C.

(10) SEE ROADWAY PLANS FOR FLUME LOCATION.

(11) START CURB AND GUTTER TRANSITION OR END SECTION.

(12) DEPRESS FLOW LINE (SEE DETAIL)

(13) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.

(14) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.

(15) GEOTEXTILE FABRIC TYPE HR.

(16) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C - C.

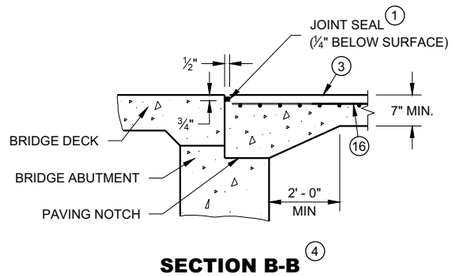
(17) MSG THRIE BEAM TRANSITION POST 1. SEE SDD 14B45 FOR ADDITIONAL CONSTRUCTION DETAILS AND ACCEPTABLE MATERIALS.

(18) MAINTAIN WIDTH, THICKNESS AND CROSS SLOPE OF ADJACENT TYPE TBT OR TBTT CURB. SEE NOTE 6 FOR TIE BAR SPACING.

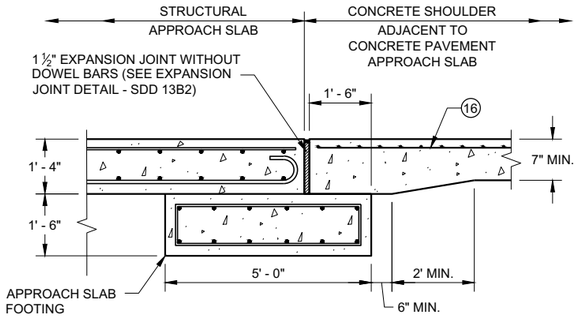
(19) ALIGN FACE OF POST BLOCK WITH FLOW LINE.

(20) MAINTAIN FLOW LINE AT EDGE OF PAVEMENT/FACE OF BEAM GUARD AS APPLICABLE.

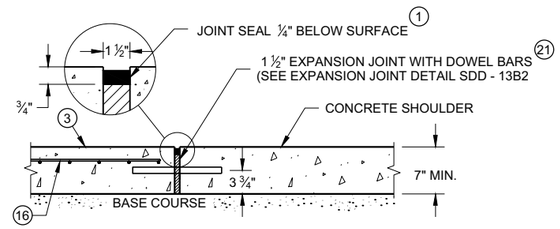
(21) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING HMA PAVEMENTS.



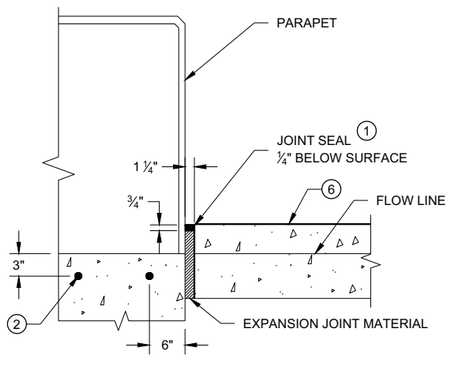
SECTION B-B (4)



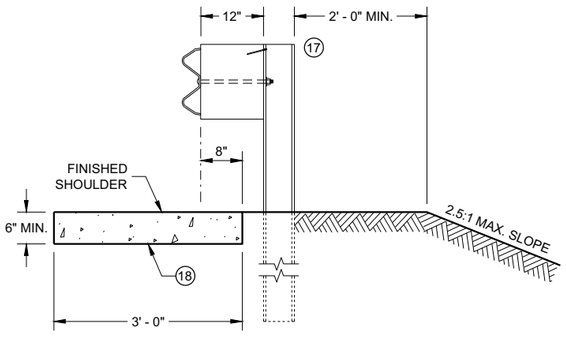
SECTION C - C
JOINT DETAIL FOR BRIDGE WITH STRUCTURAL APPROACH SLAB AND CONCRETE APPROACH SLAB



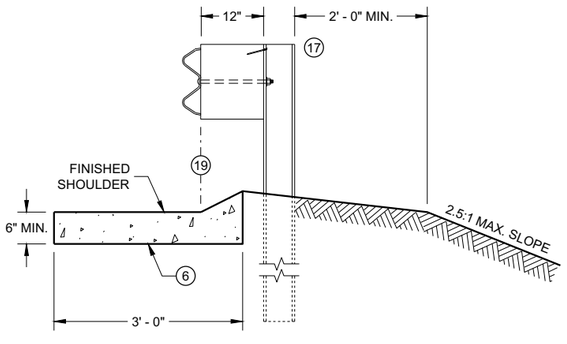
SECTION C - C
JOINT DETAIL FOR BRIDGE APPROACH WITH CONCRETE SHOULDERS



SECTION D - D



SECTION E - E



SECTION F - F

CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER

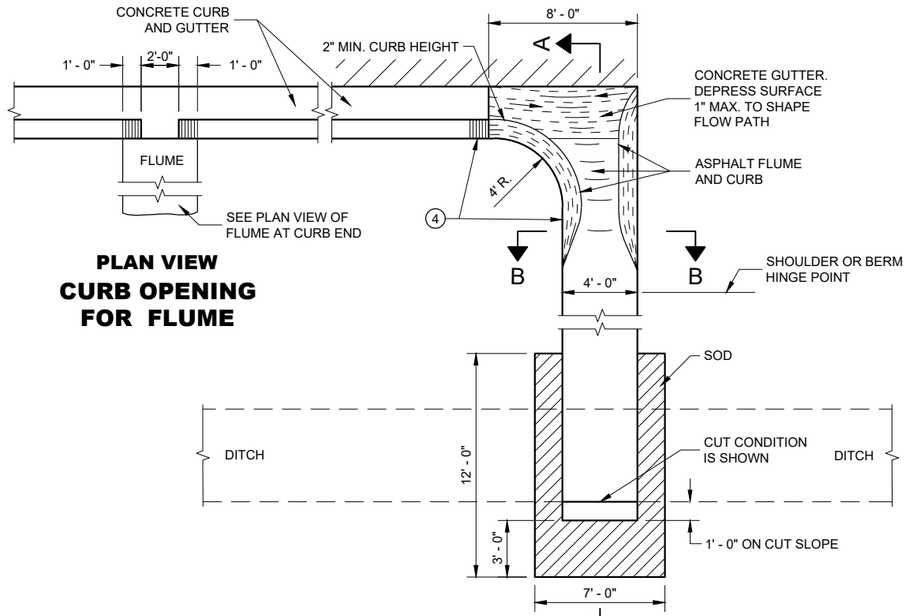
FHWA

SDD 08D02 - 07c

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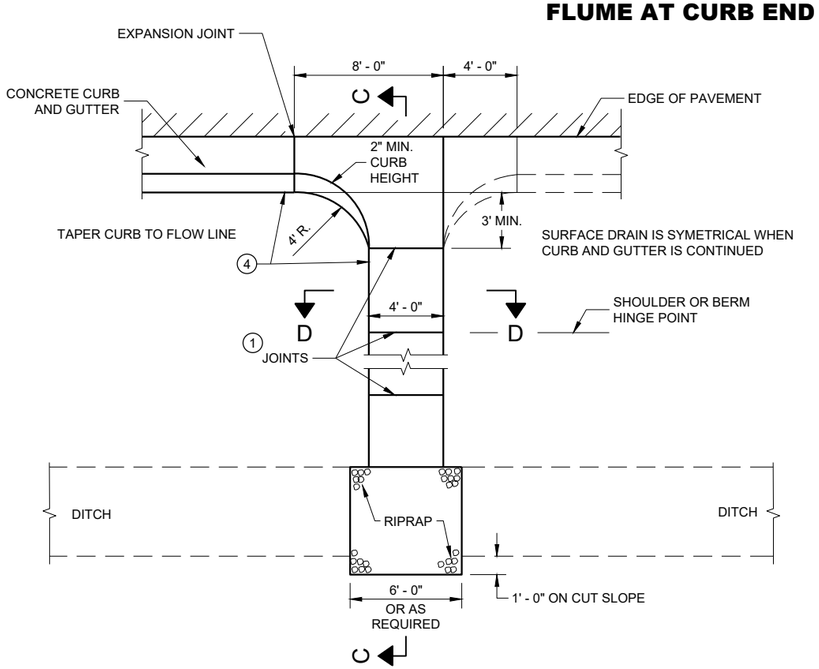
NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

ASPHALTIC FLUME



PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



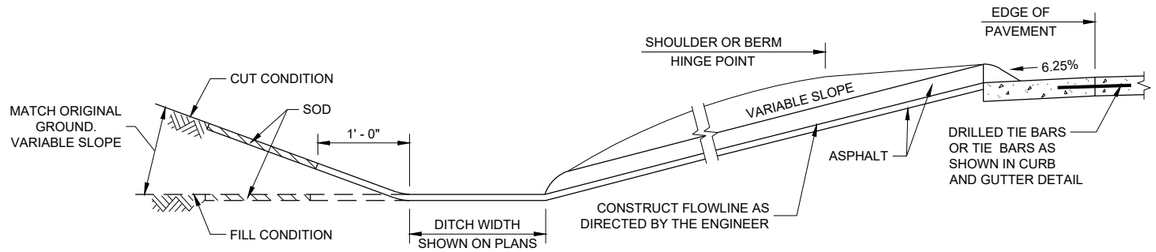
PLAN VIEW
CONCRETE SURFACE DRAIN

GENERAL NOTES

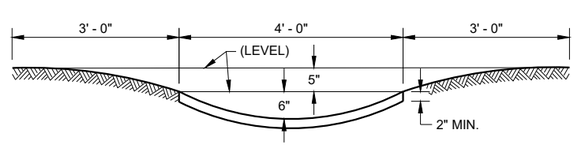
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

4" X 4" - W3.0 X W3.0 CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

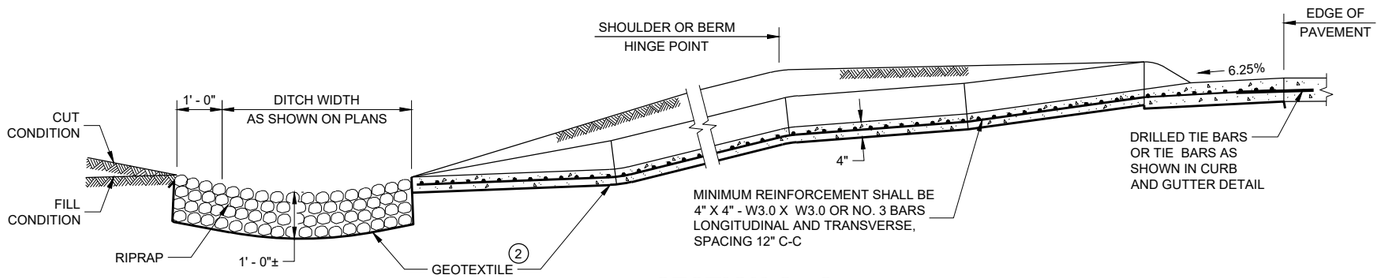
1. JOINTS SHALL BE ⅛" TO ¼" WIDE BY 1½" DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
2. GEOTEXTILE TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
3. CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.
4. ANGLE OF FLUME IN RELATION TO BACK OF CURB TO BE CONSTRUCTED PER THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER. ANGLE OF FLUME MAY BE OTHER THAN 90 DEGREES AS SHOWN.



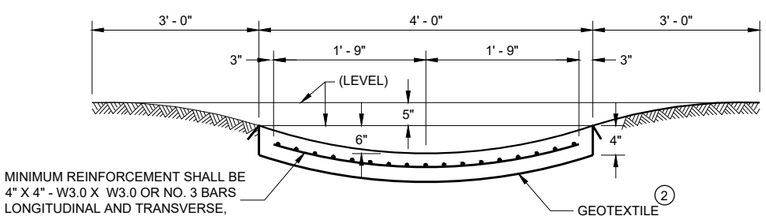
SECTION A - A



SECTION B - B



SECTION C - C



SECTION D - D

CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

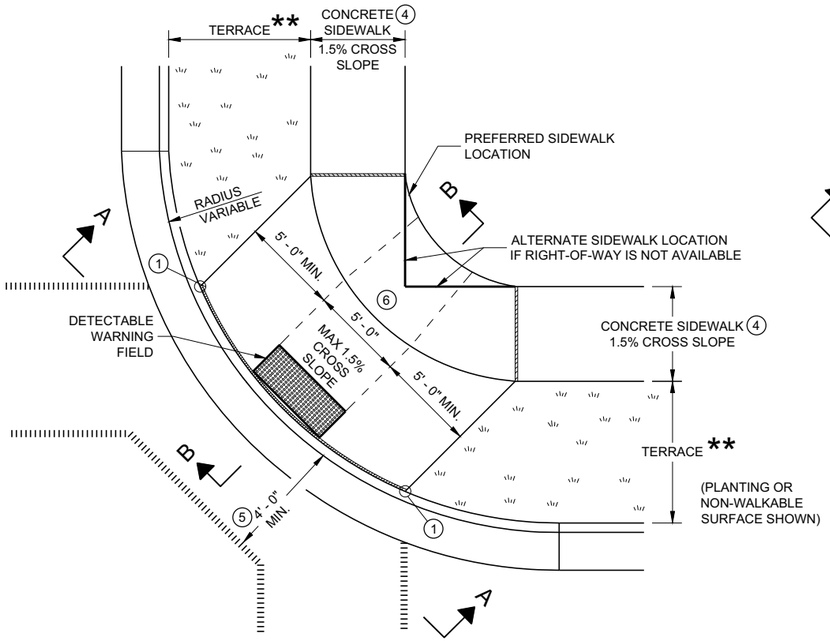
FHWA

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SDD 08D04 - 06

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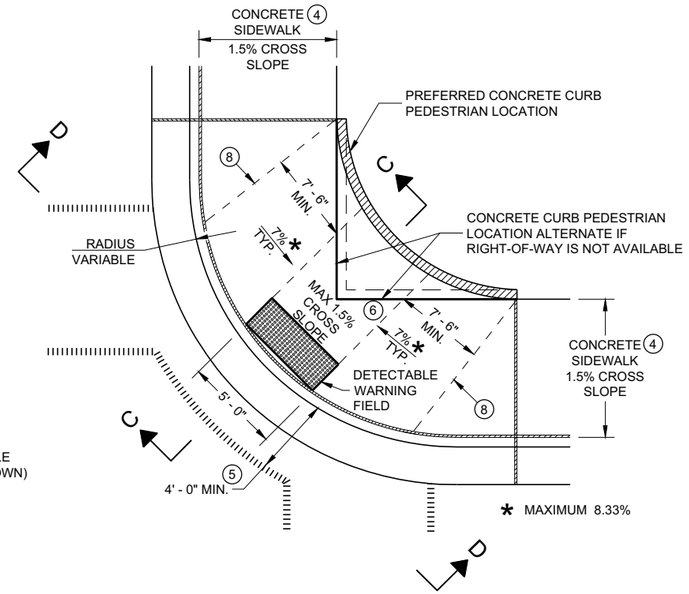
SDD 08D04 - 06



PLAN VIEW

CURB RAMP TYPE 1

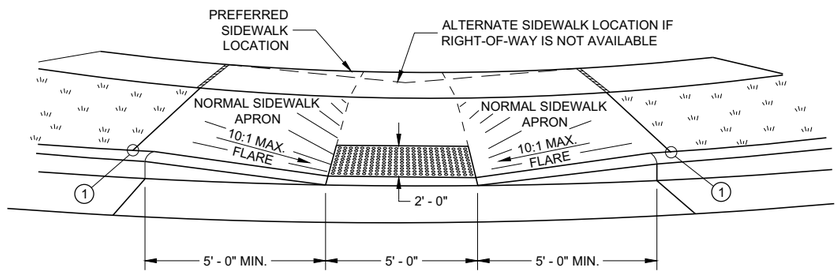
(CENTER OF CORNER RADIUS)



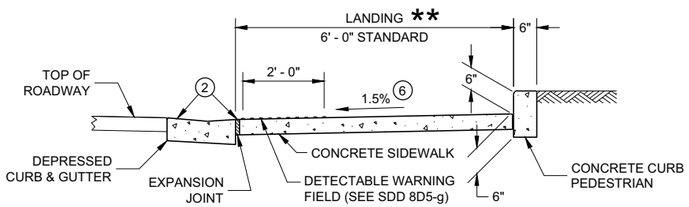
PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

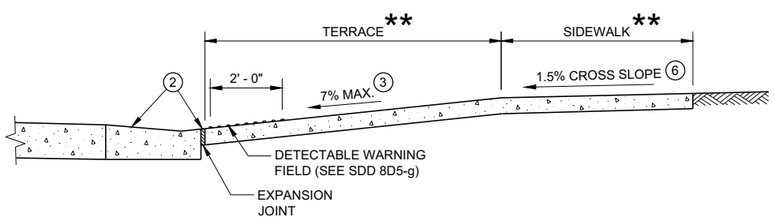


VIEW A - A FOR TYPE 1

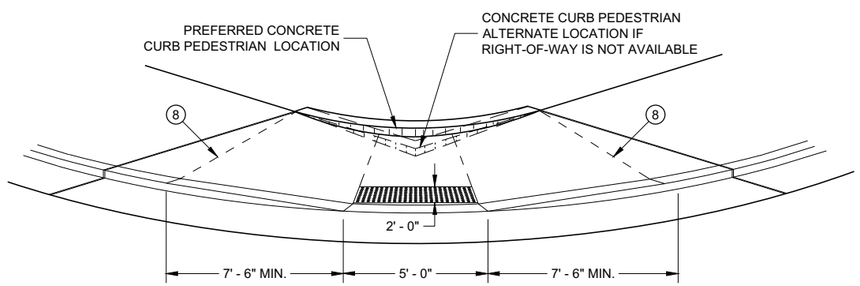


SECTION C - C FOR TYPE 1 - A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B - B FOR TYPE 1



VIEW D - D FOR TYPE 1 - A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FILED SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAR FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD"

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 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) MAXIMUM 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

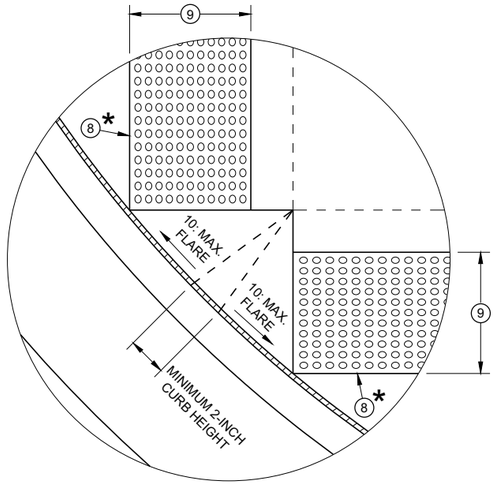
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPE 1 AND 1-A

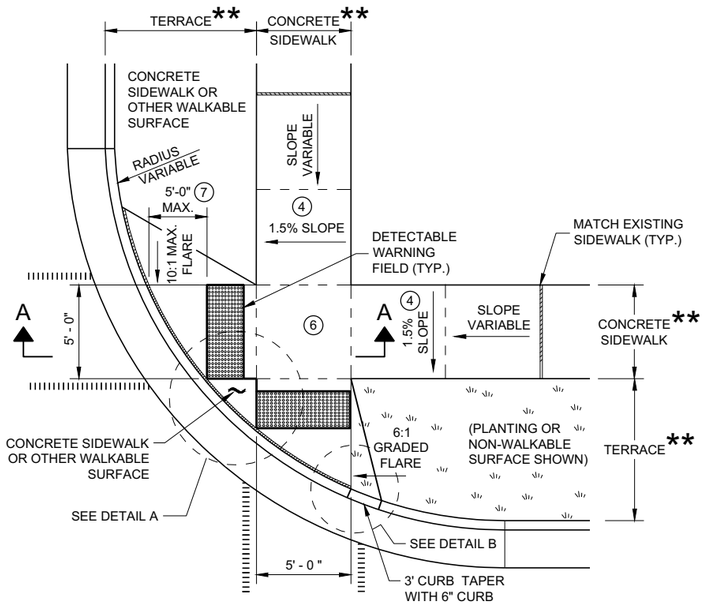
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20a



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.

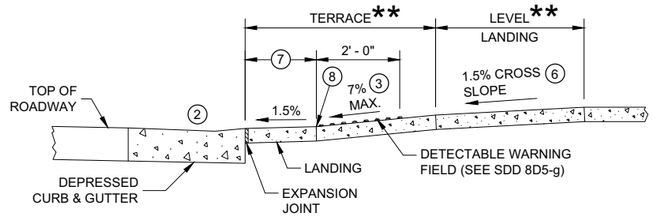
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(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.

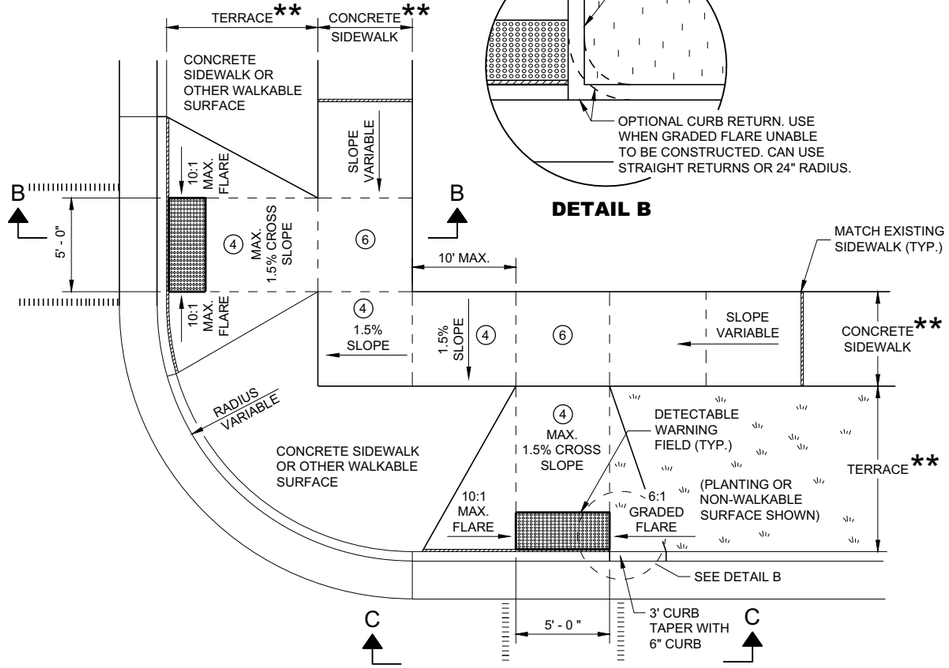
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



SECTION A - A FOR TYPE 2

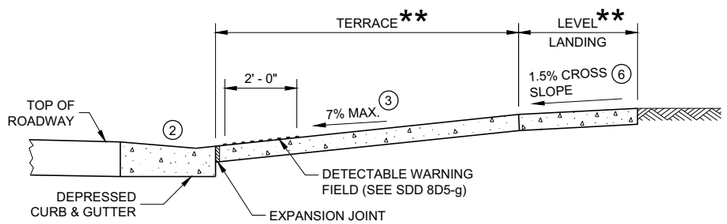
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS



DETAIL B

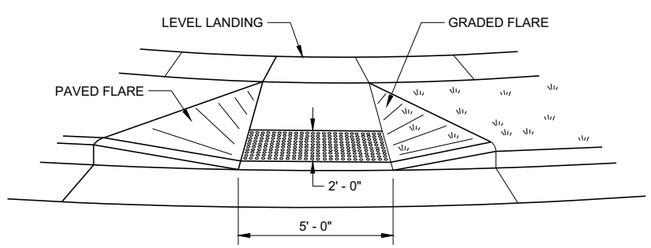
PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



SECTION B - B FOR TYPE 3

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)



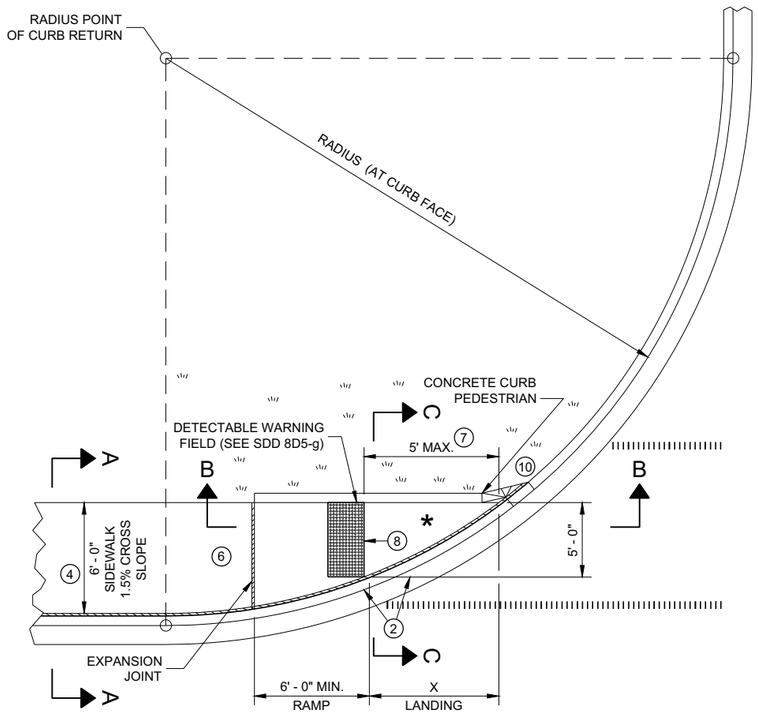
VIEW C - C FOR TYPE 3

CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20b

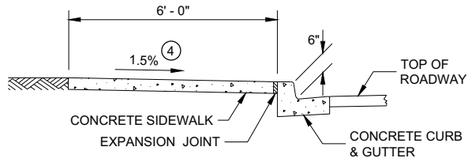


PLAN VIEW

CURB RAMP TYPE 4A

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"
15 FEET	6' - 5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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.

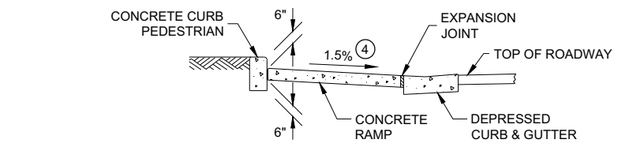
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

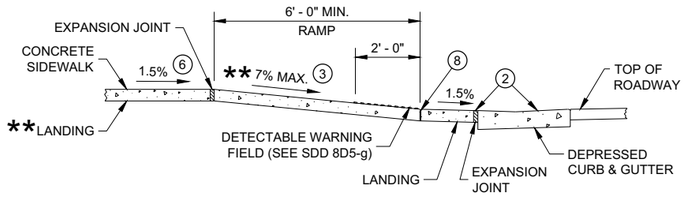
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



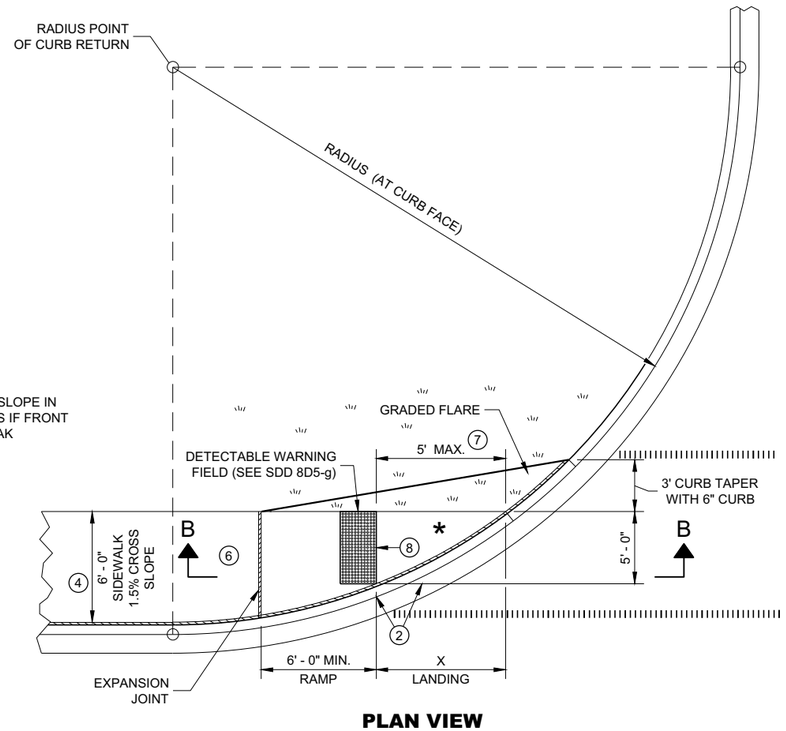
SECTION C - C FOR TYPE 4A



SECTION B - B FOR TYPE 4A AND TYPE 4A1

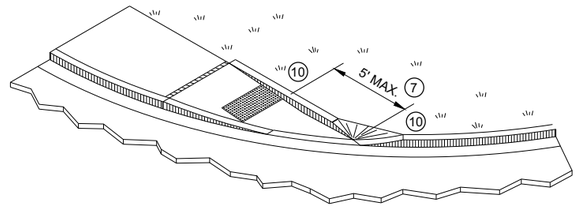
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

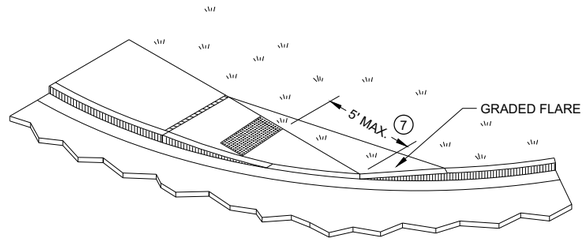


PLAN VIEW

CURB RAMP TYPE 4A1



ISOMETRIC VIEW FOR TYPE 4A



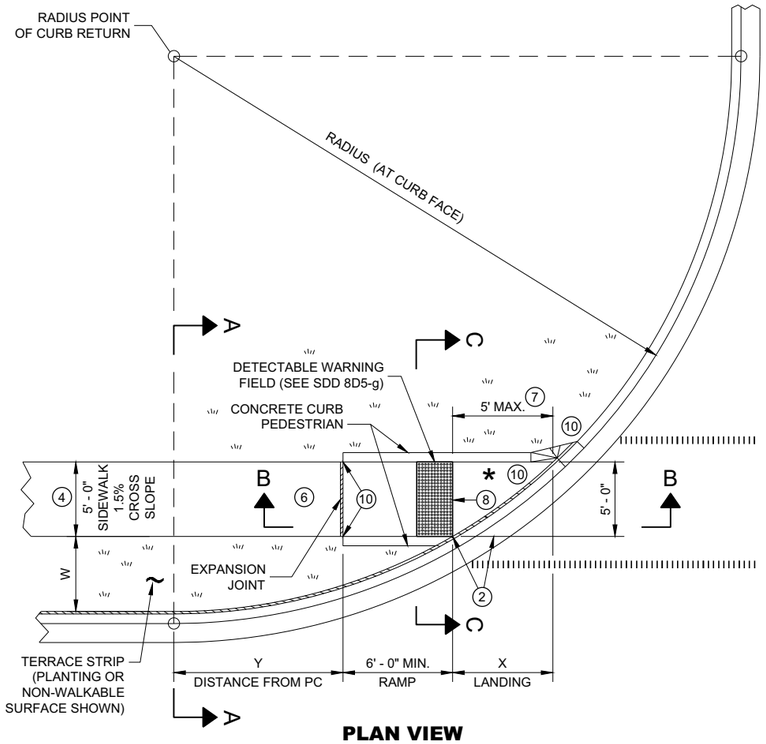
ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20c



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.

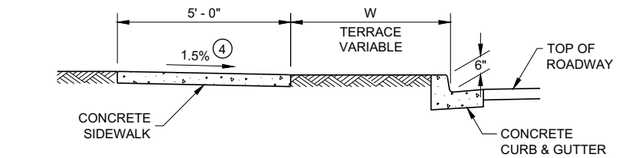
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

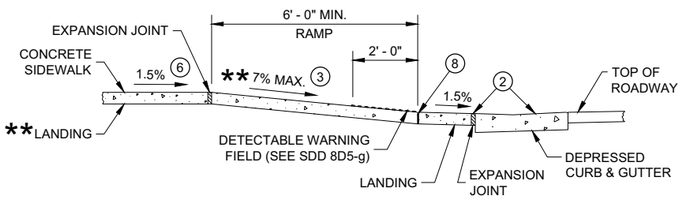
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

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



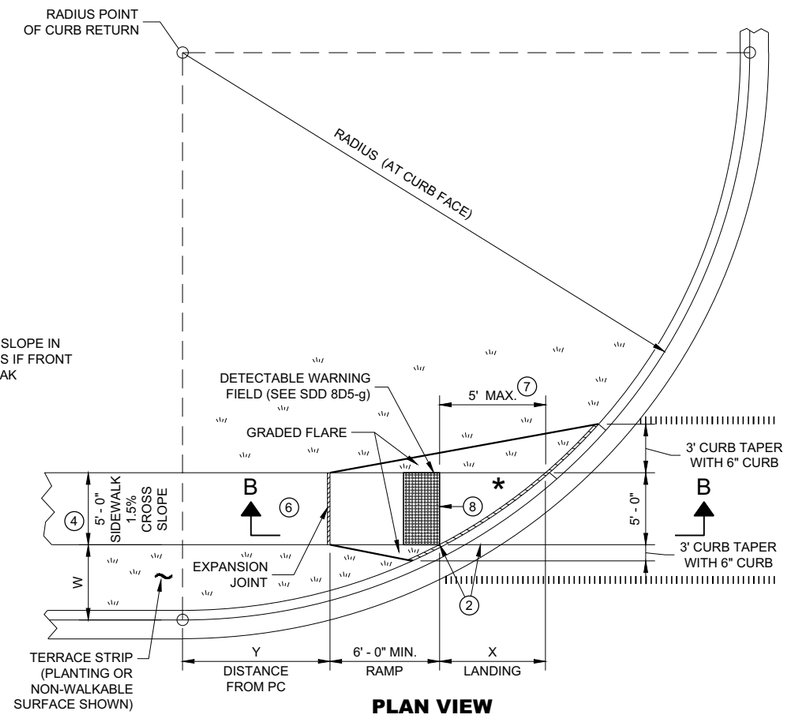
SECTION A - A FOR TYPE 4B



** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

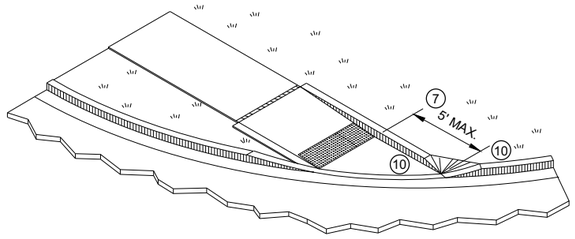
SECTION B - B FOR TYPE 4B AND TYPE 4B1

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

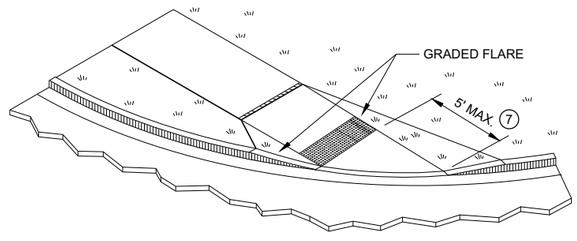


PLAN VIEW

CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



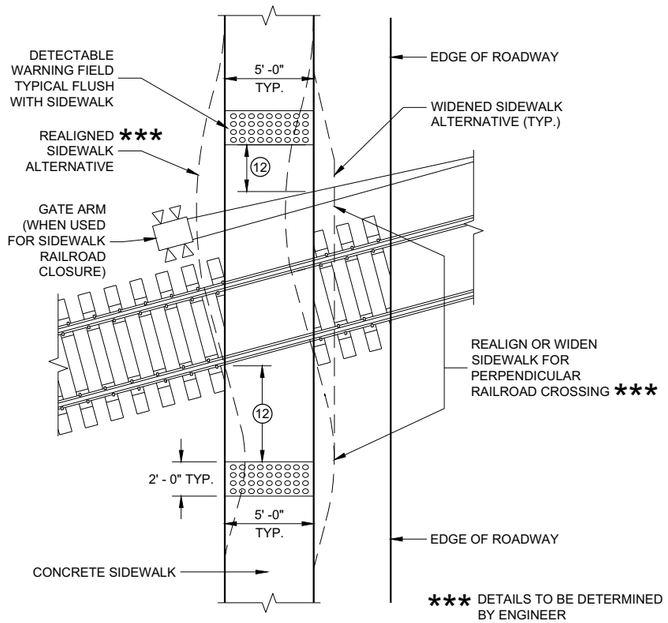
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

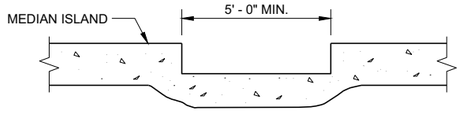
6

SDD 08D05 - 20d

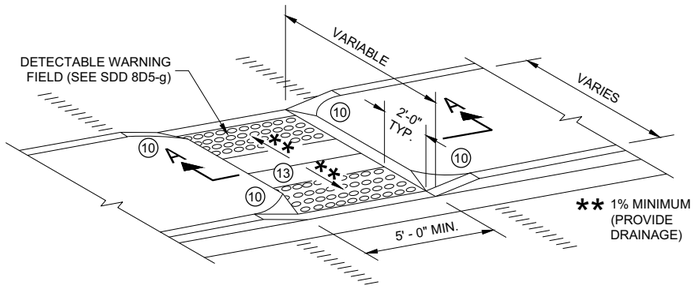


CURB RAMP TYPE 8

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 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.

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

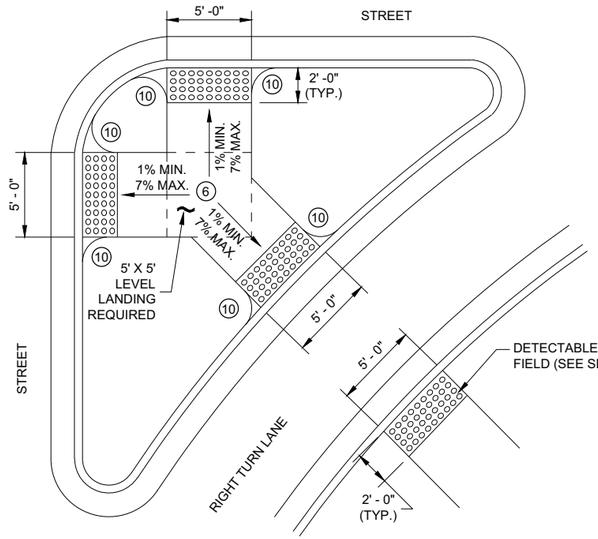
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(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

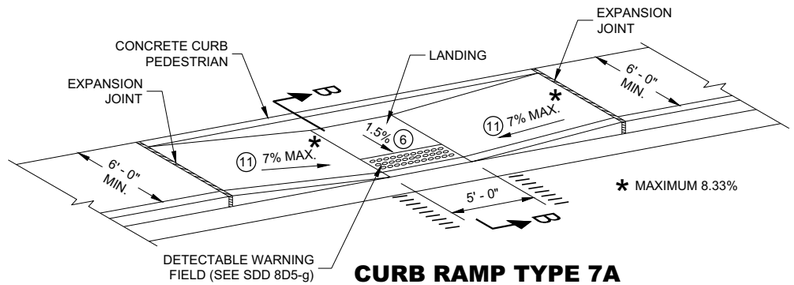
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

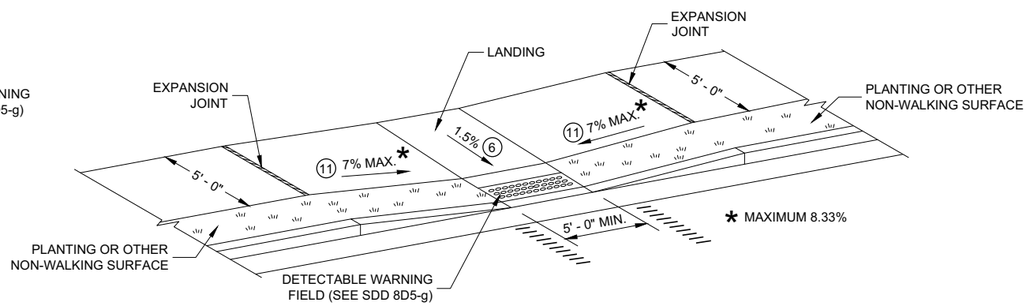
DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



CURB RAMP TYPE 7A

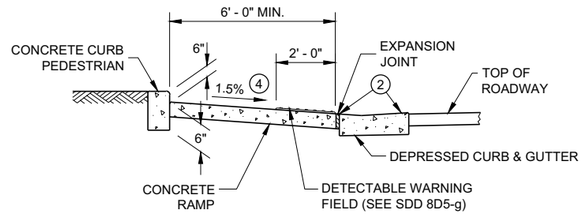
MID BLOCK CROSSING



CURB RAMP TYPE 7B

MID BLOCK CROSSING

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.



SECTION B - B FOR TYPE 7A

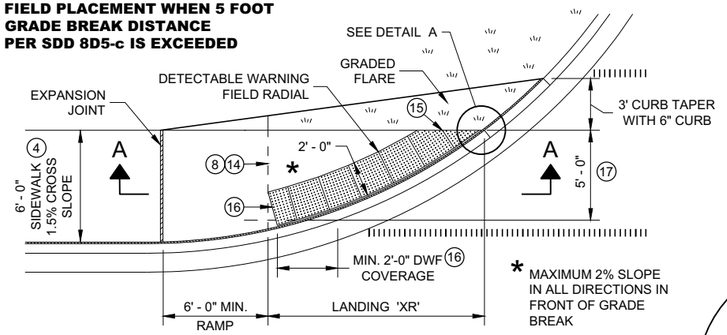
CURB RAMPS TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20e

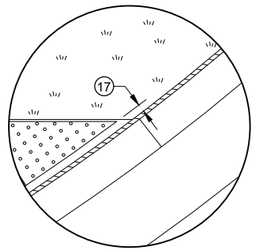
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



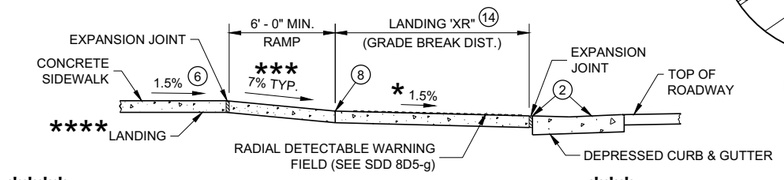
PLAN VIEW

CURB RAMP TYPE 4A1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL A

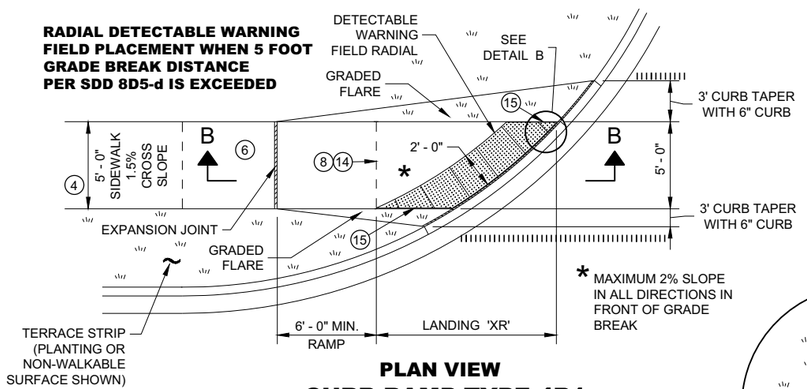


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION A - A FOR TYPE 4A1

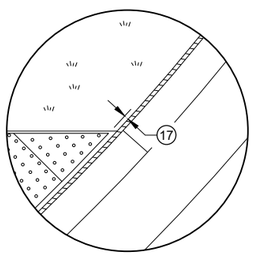
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



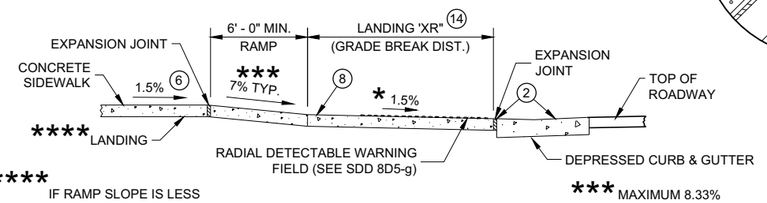
PLAN VIEW

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.

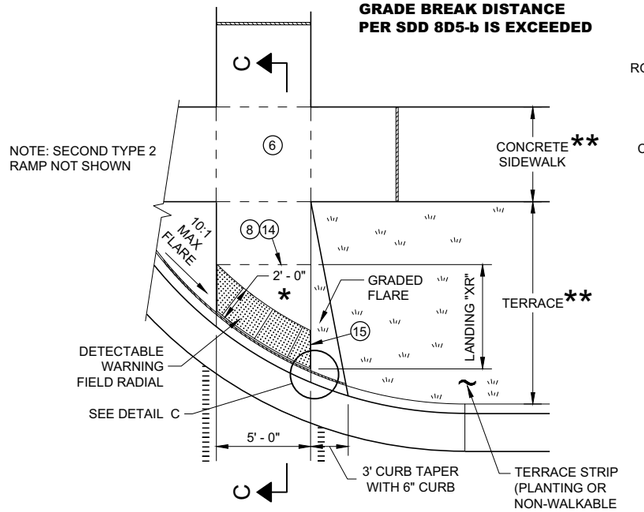
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(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

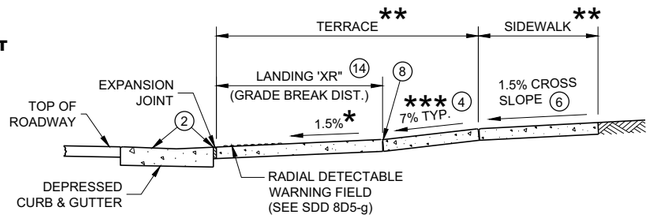


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

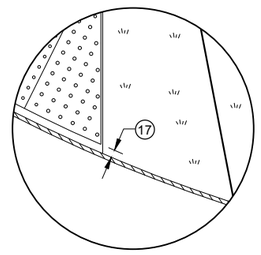


SECTION C - C FOR TYPE 2

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%



DETAIL C

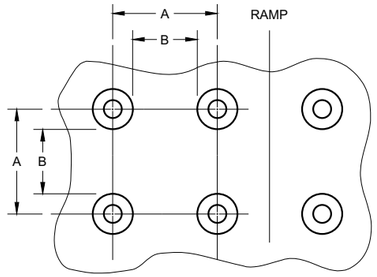
CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

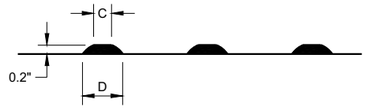
SDD 08D05 - 20f

	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.

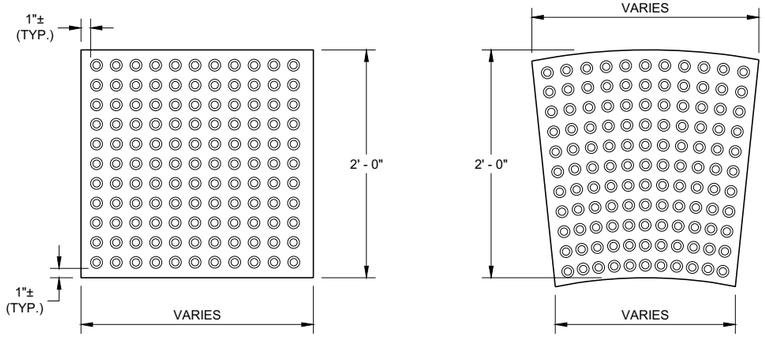


PLAN VIEW



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.

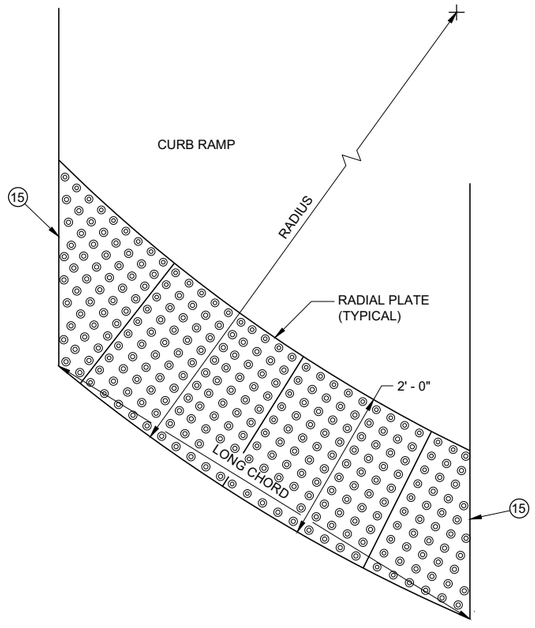
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

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.

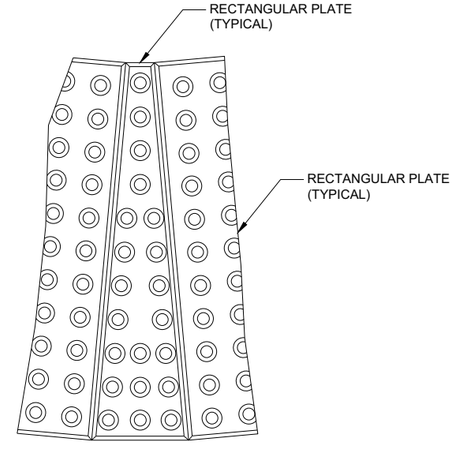
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

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

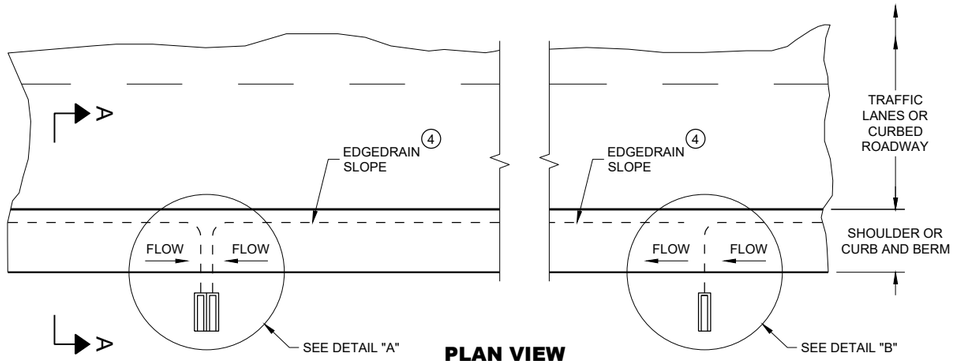
CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

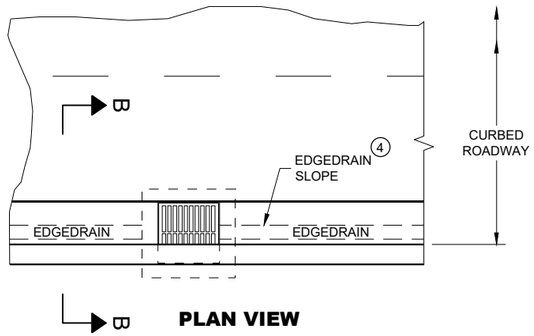
FHWA

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SDD 08D05 - 20g



PLAN VIEW

ROADWAY WITH SHOULDERS OR CURBS
(EDGEDRAIN CONNECTS TO ROADSIDE) (2)



PLAN VIEW

ROADWAY WITH CURBS
(EDGEDRAIN CONNECTS INTO INLET STRUCTURE)

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) UNPERFORATED PIPE UNDERDRAIN AND FITTINGS FURNISHED FOR OUTFALL PIPE SHALL MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS:

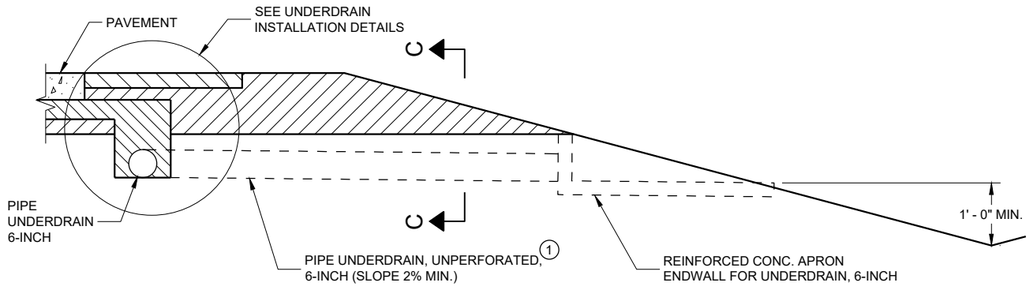
POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE, AND VENT PIPE AND FITTINGS, ASTM D 2665, SCHEDULE 40 PVC.

TYPE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, ASTM D 3034, SDR 23.5 PVC SEWER PIPE.

(2) MAXIMUM SPACING OF EDGEDRAIN OUTLETS SHALL BE 250 FEET UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR DIRECTED BY THE ENGINEER.

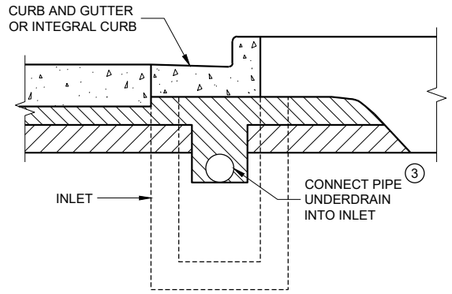
(3) EDGEDRAIN SHALL BE CONNECTED TO INLETS REGARDLESS OF FLOW DIRECTION FOR DRAINAGE AND MAINTENANCE ACCESS.

(4) EDGEDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF ROADWAY.



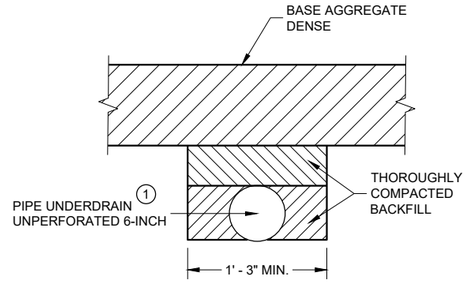
SECTION A - A

RURAL CROSS SECTION



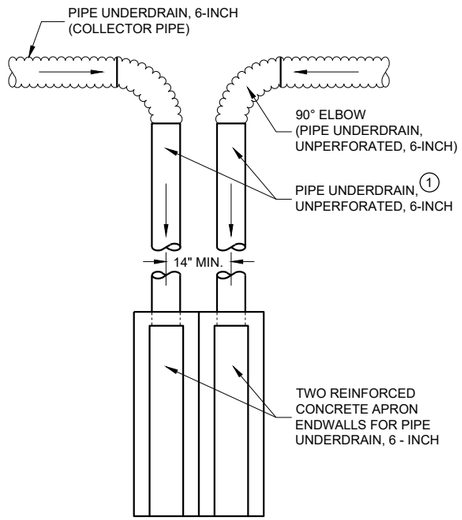
SECTION B - B

URBAN CROSS SECTION

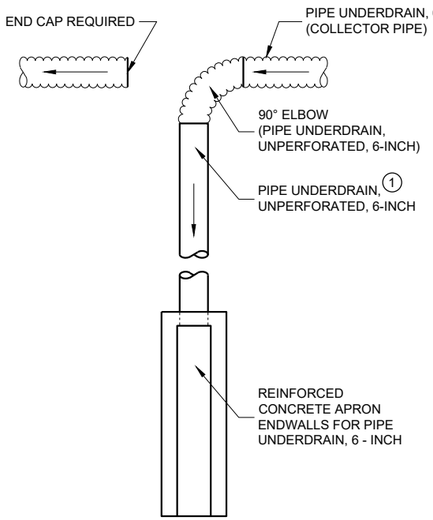


SECTION C - C

TRENCH FOR OUTFALL PIPE

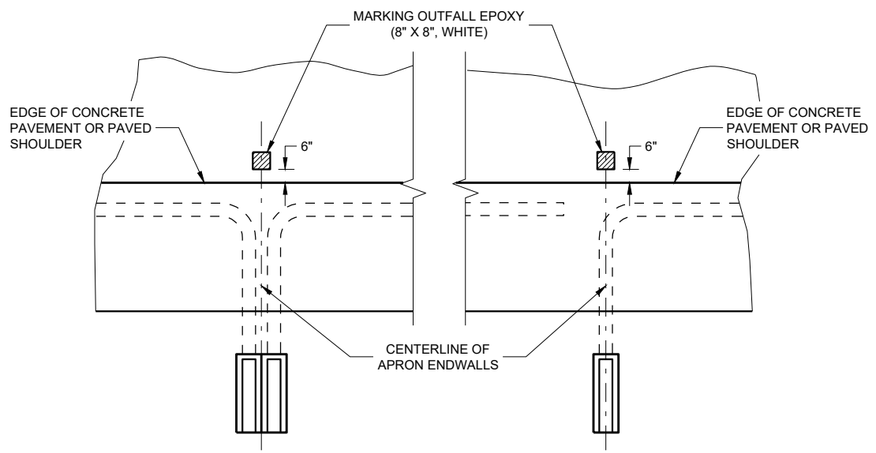


DETAIL "A"
TO BE USED AT LOW POINT LOCATIONS



DETAIL "B"
TO BE USED AT INTERMEDIATE LOCATIONS

TYPICAL DRAIN OUT DETAILS



LOW POINT LOCATIONS — INTERMEDIATE LOCATIONS

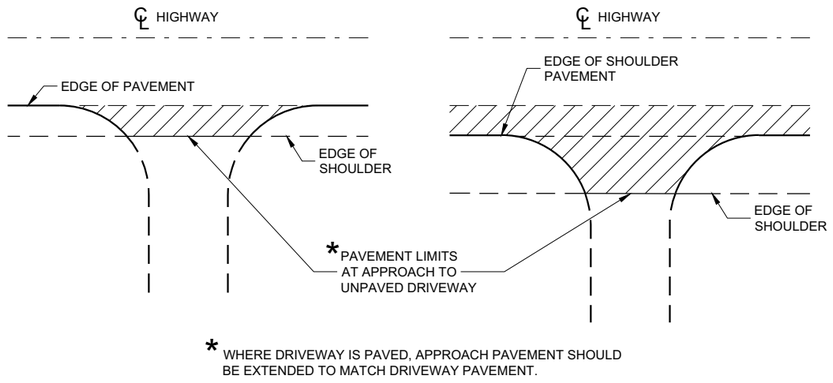
PAVEMENT MARKINGS FOR OUTFALL MARKERS

EDGEDRAIN OUTLET AND OUTFALL MARKERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD08D15 - 05a

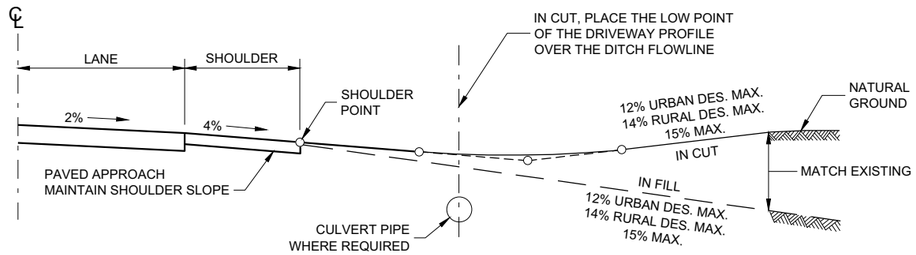
SDD08D15 - 05a



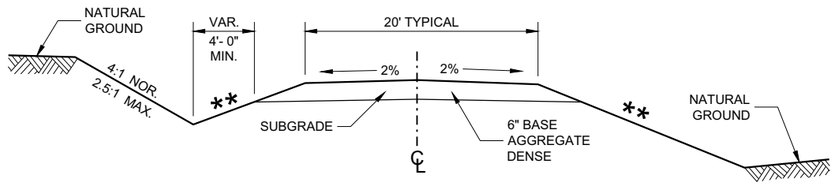
PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

RURAL DRIVEWAY INTERSECTION DETAIL
(NO CURB AND GUTTER OR SIDEWALK)



TYPICAL DRIVEWAY PROFILES

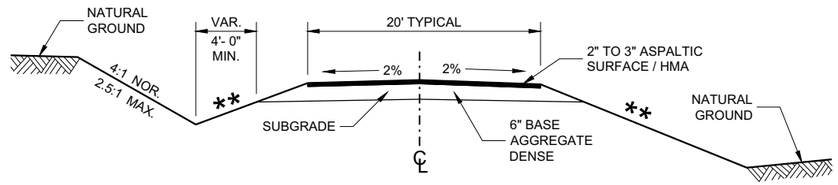


IN CUT IN FILL

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE

** SLOPE CAN VARY WITH SPEED. SEE 11-45-30.6.2

POSTED SPEED MPH	MAX. SLOPE
<35	4:1
≥ 35 TO < 60	6:1
≥60	10:1



IN CUT IN FILL

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

6

SDD 08D21 - 01

DRIVEWAYS WITHOUT CURB AND GUTTER

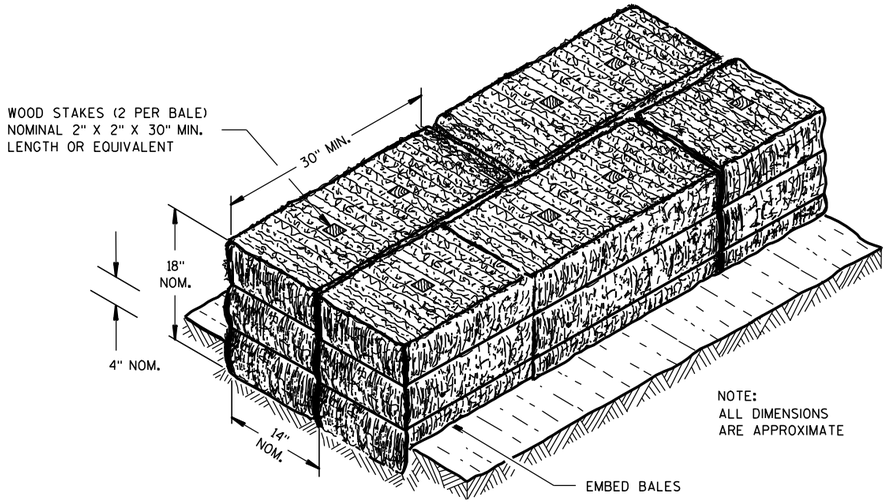
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR

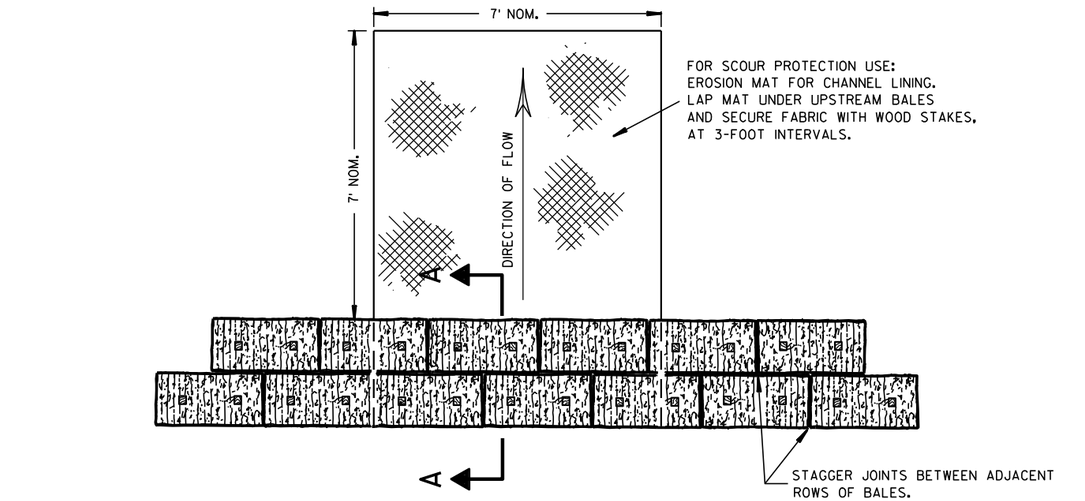
FHWA

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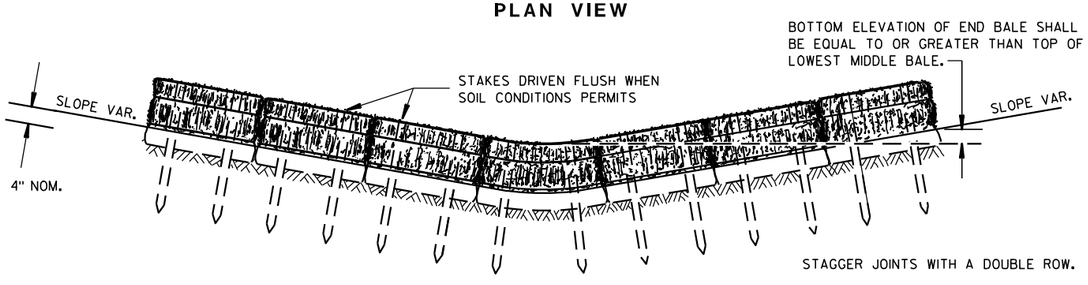
SDD 08D21 - 01



SECTION A-A



PLAN VIEW



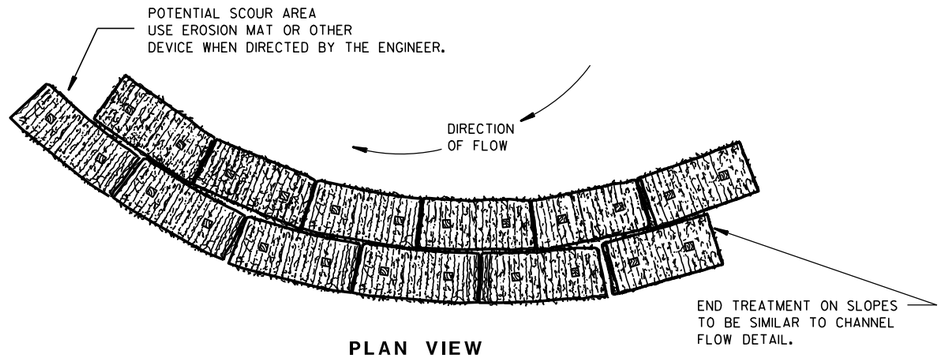
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

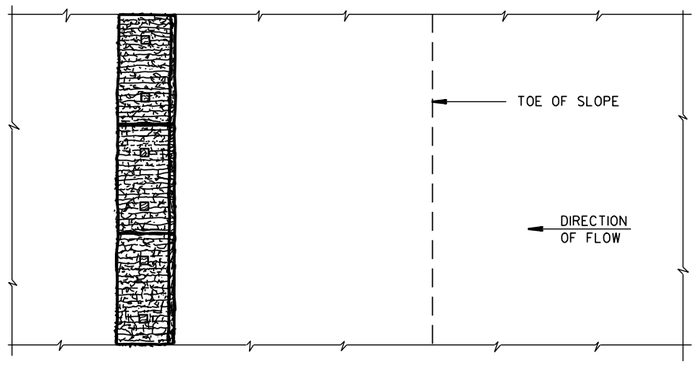
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

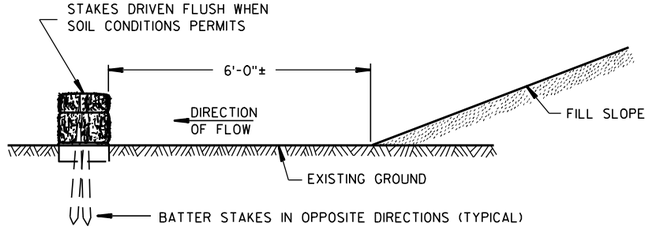


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

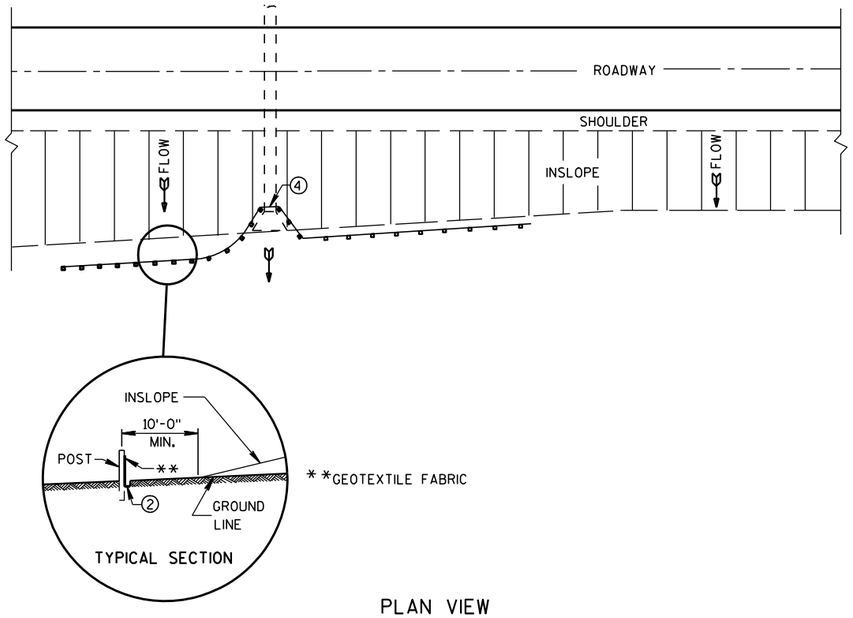
FHWA

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S.D.D. 8 E 8-3

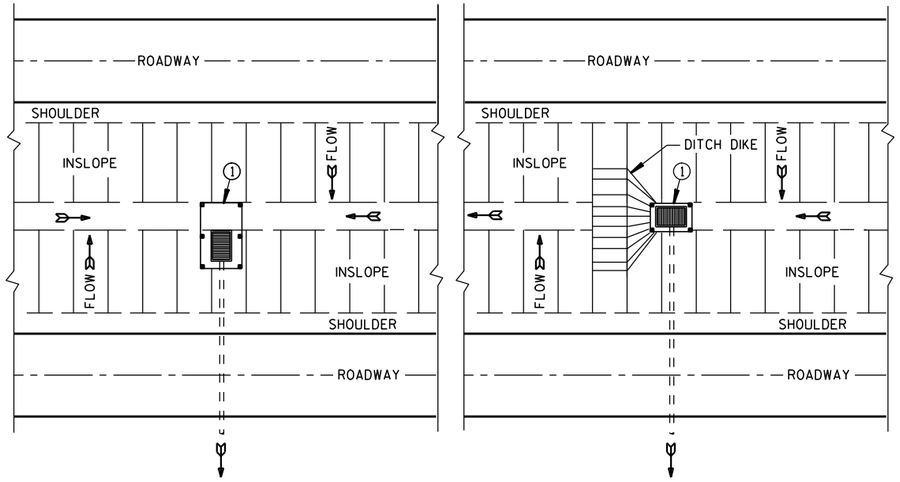
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



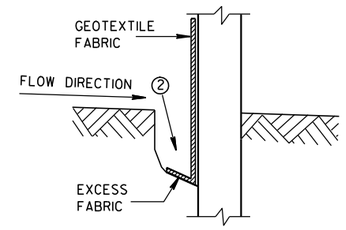
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

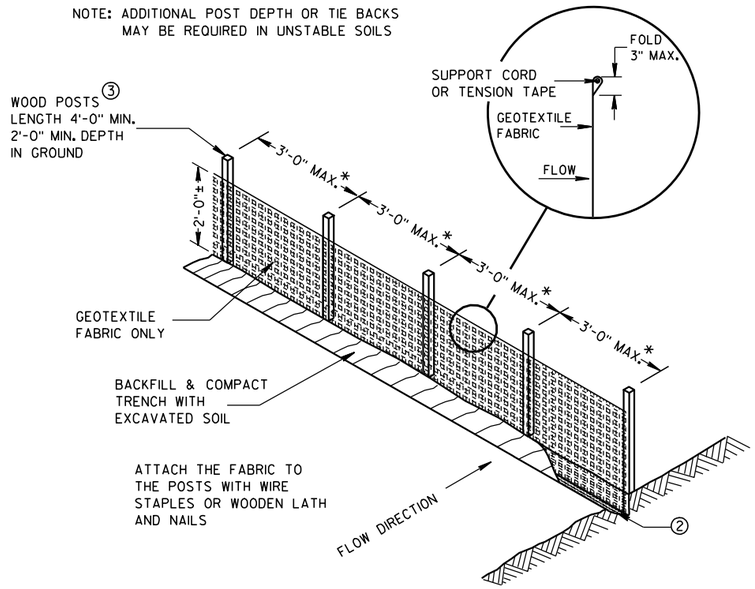
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

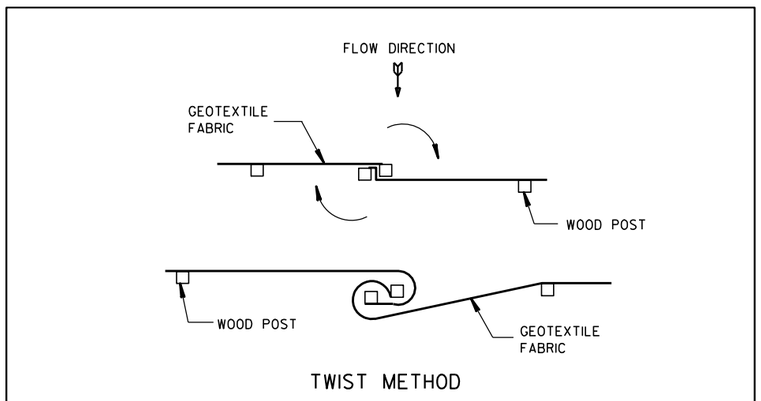
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



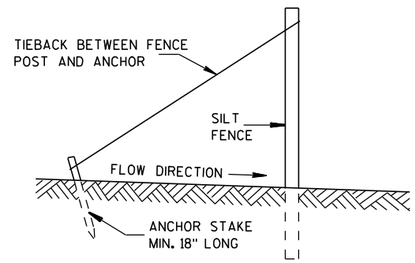
TRENCH DETAIL



SILT FENCE



JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

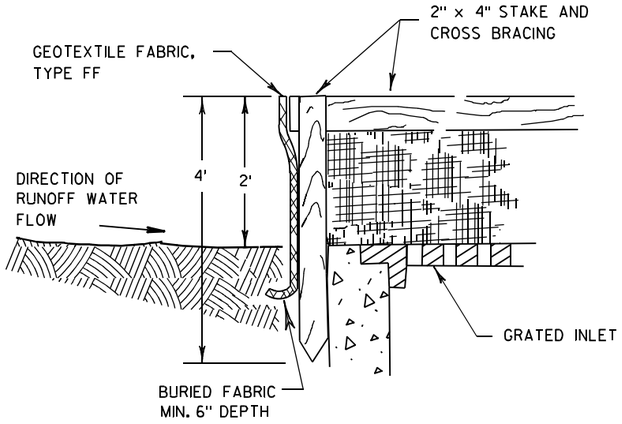
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

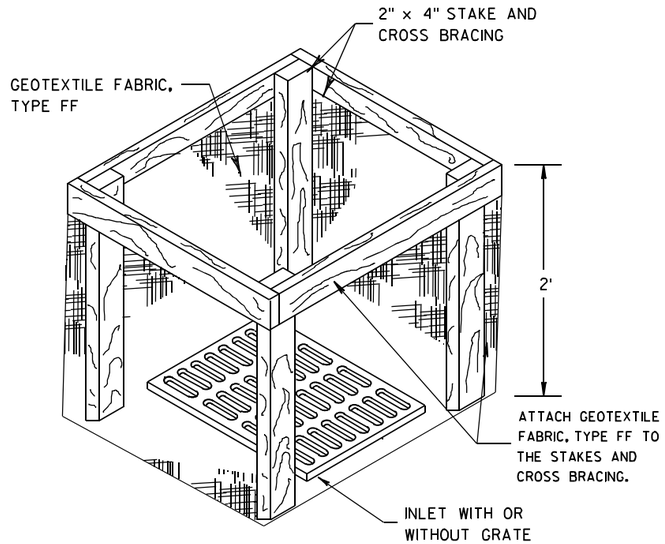
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S.D.D. 8 E 9-6

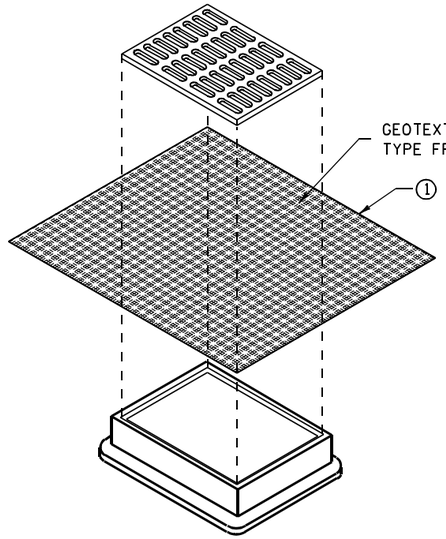
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S.D.D. 8 E 9-6



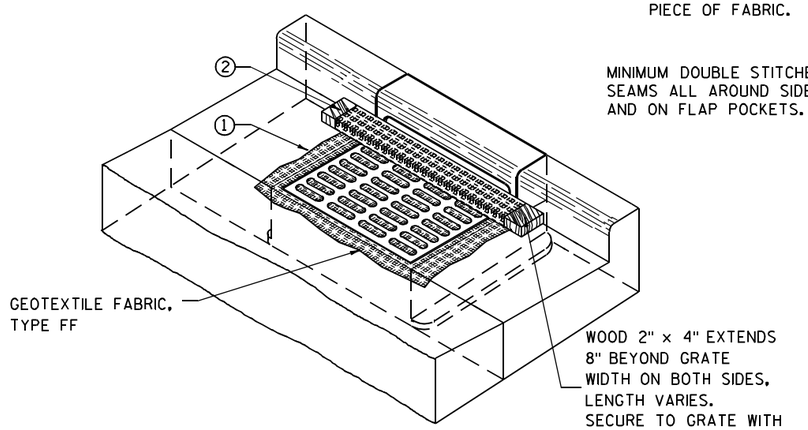


INLET PROTECTION, TYPE A

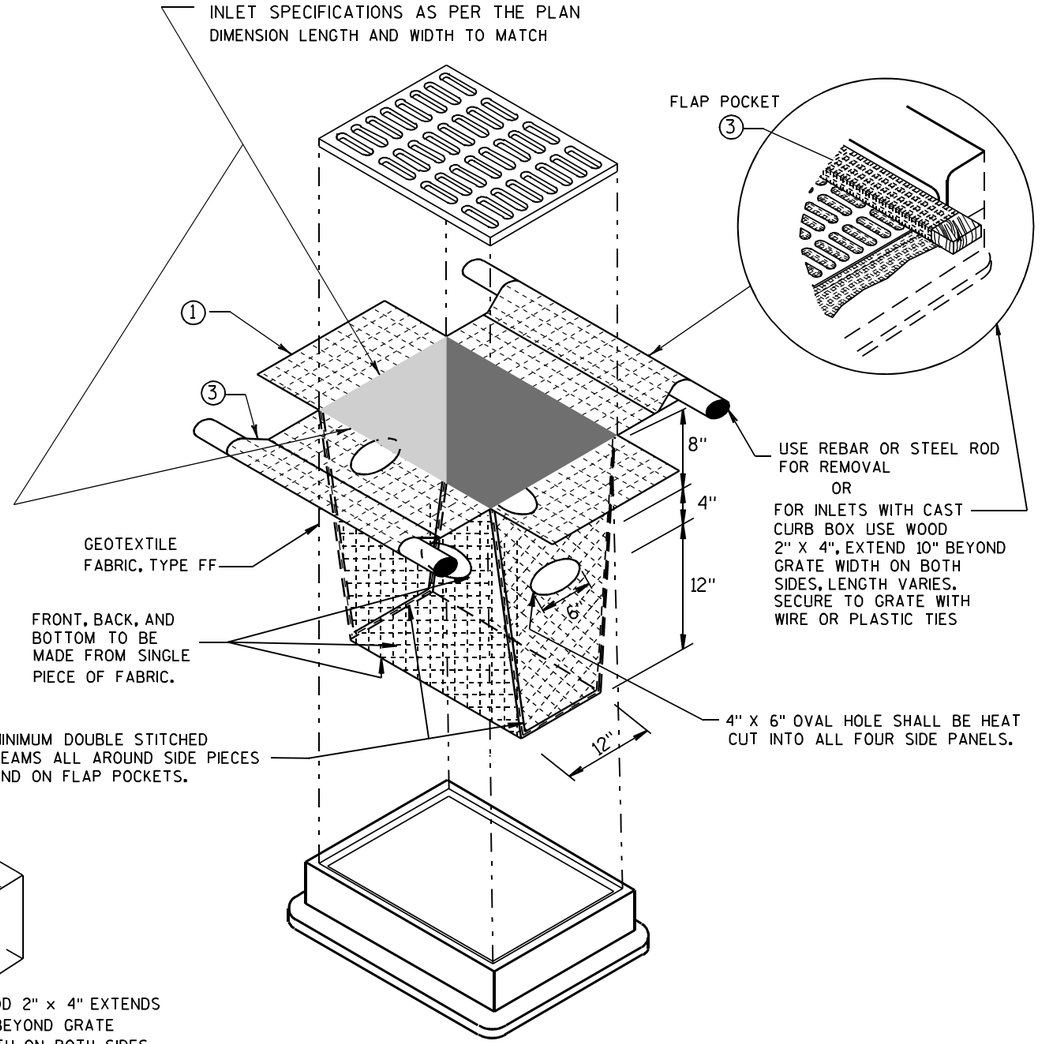


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

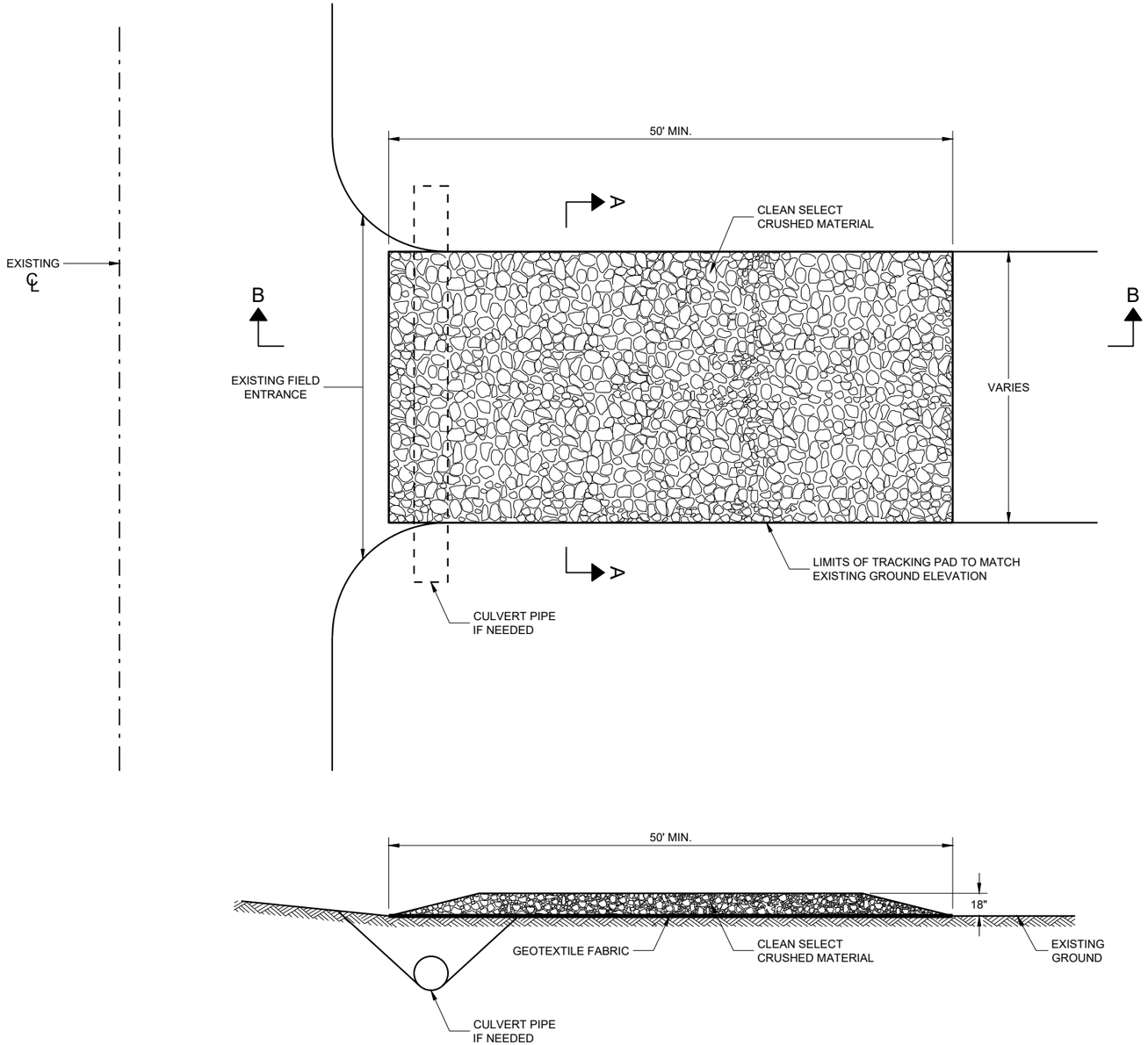
FHWA

6

S.D.D. 8 E 10-2

6

S.D.D. 8 E 10-2



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.

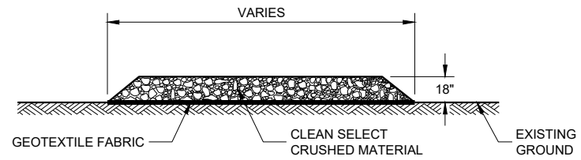
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

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

6

SDD 08E14 - 01

TRACKING PAD

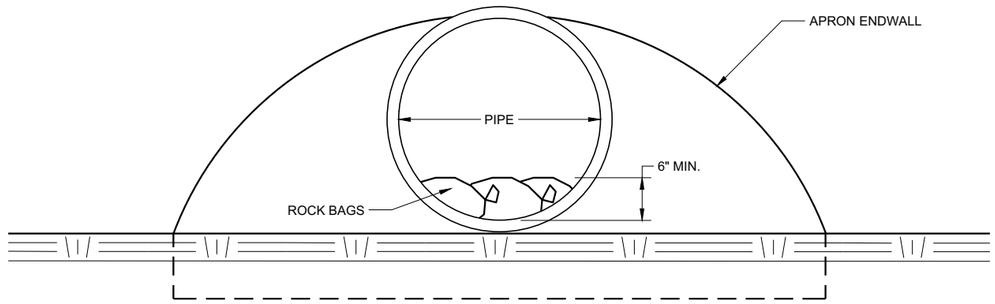
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVE ENGINEER

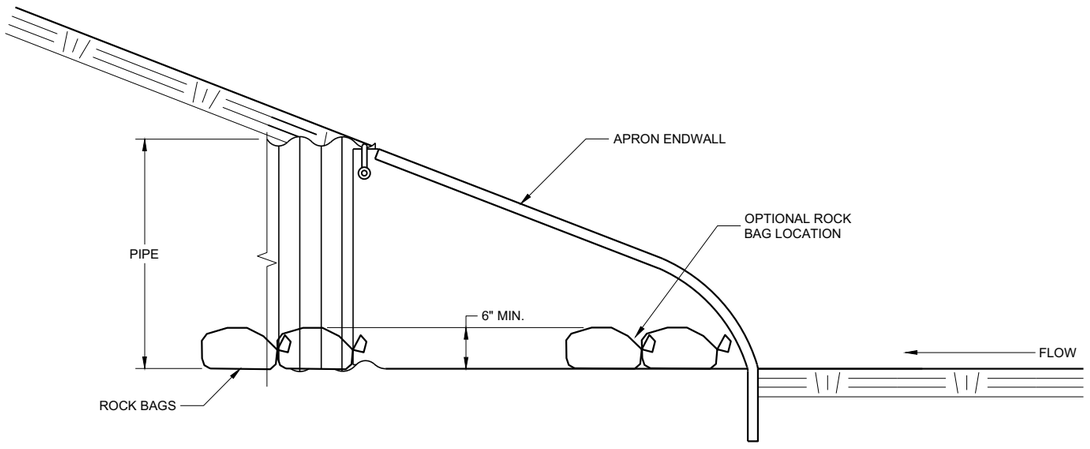
FHWA

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SDD 08E14 - 01



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019 — DATE
/S/ Daniel Schave — EROSION CONTROL ENGI
FHWA

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SDD 08E15 - 01

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SDD 08E15 - 01

METAL APRON ENDWALLS

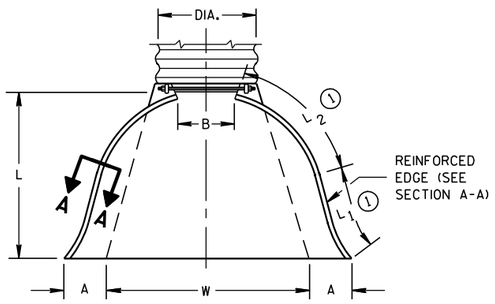
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	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

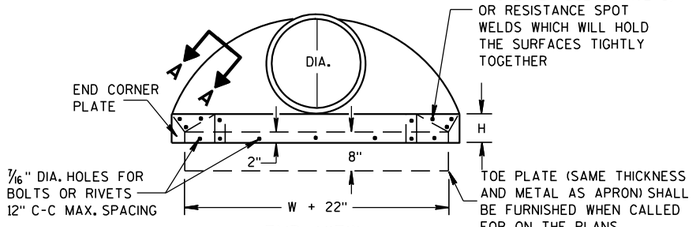
REINFORCED CONCRETE APRON ENDWALLS

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

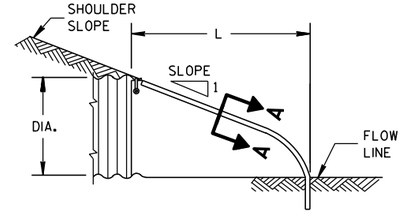
*MINIMUM
**MAXIMUM



PLAN VIEW

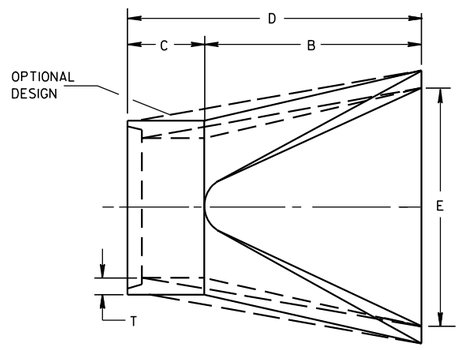


END VIEW

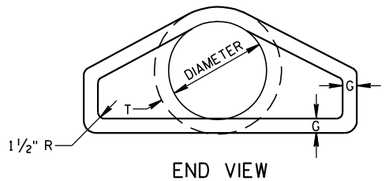


SIDE ELEVATION

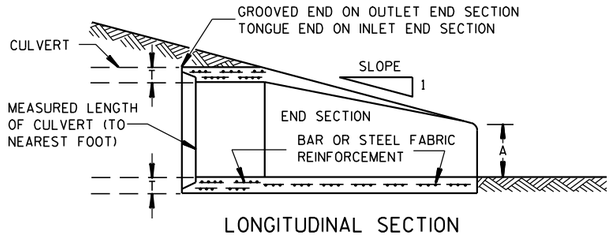
METAL ENDWALLS



PLAN

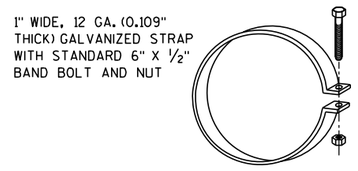


END VIEW



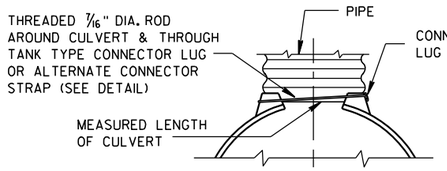
LONGITUDINAL SECTION

CONCRETE ENDWALLS

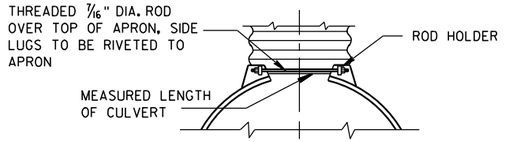


ALTERNATE FOR TYPE 1 CONNECTION

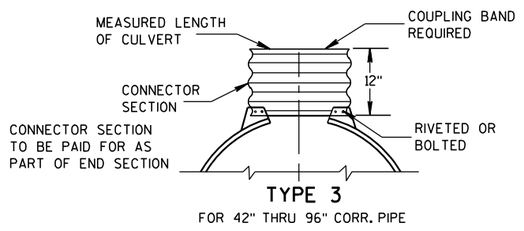
END SECTION CONNECTOR STRAP



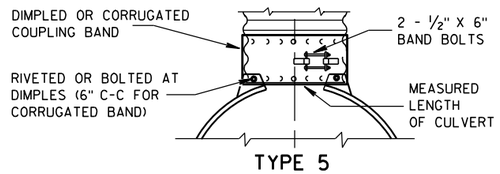
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

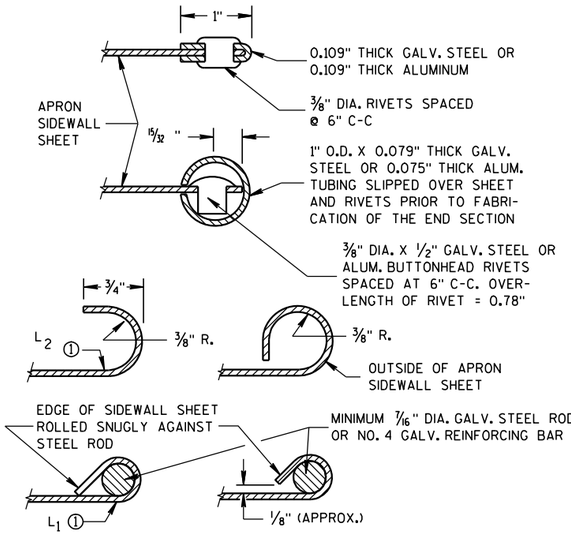
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

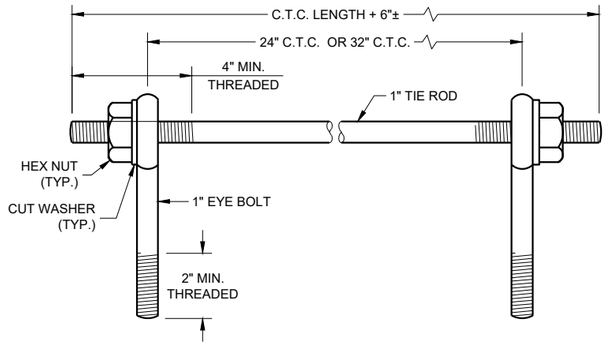
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

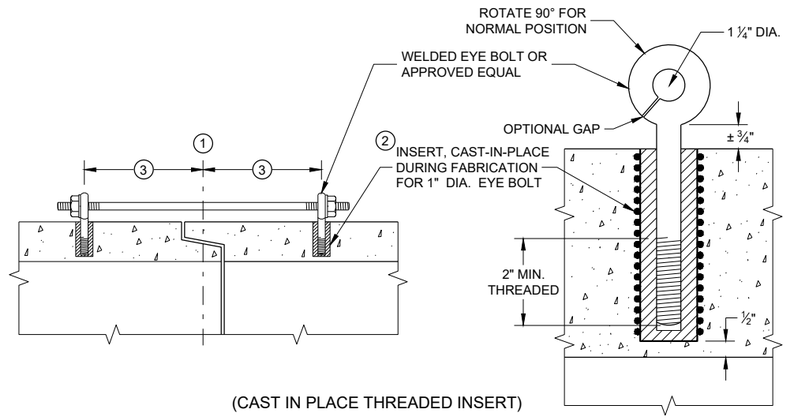
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

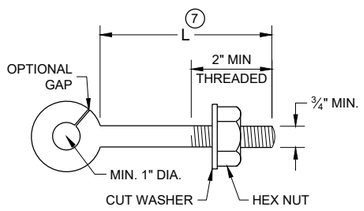
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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.

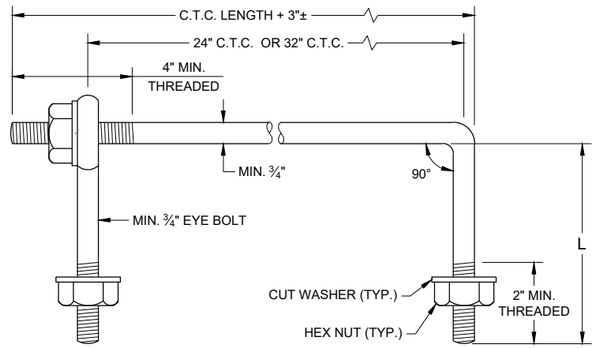
JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

1. CENTER LINE 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 PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.
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 ½ INCH OF THE INNER SURFACE OF THE PIPE.
7. EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.

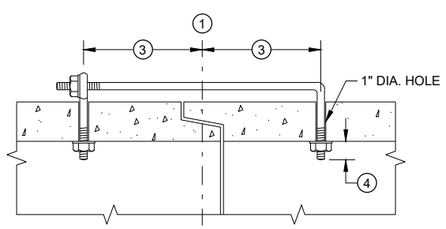


EYE BOLT 7

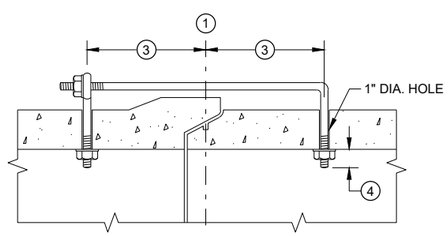
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

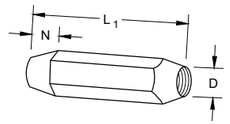
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

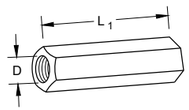
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12 - 60	⅝	⅝	5	½
66 - 84	¾	¾	5	½
90 - 144	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES



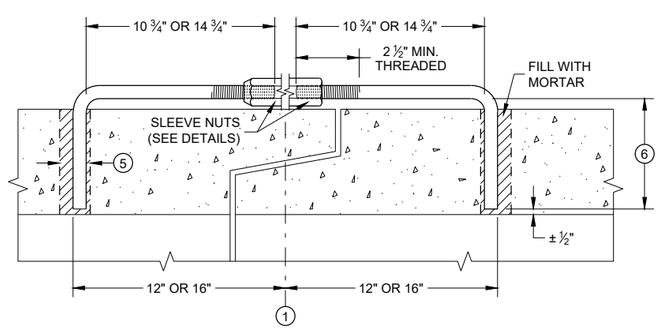
TAPERED



PLAIN

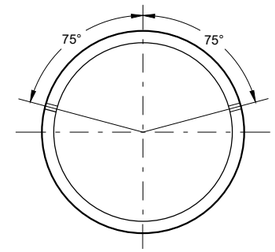
RIGHT AND LEFT THREADS

SLEEVE NUTS



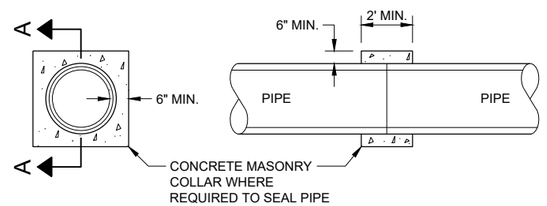
LONGITUDINAL SECTION

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
November 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER

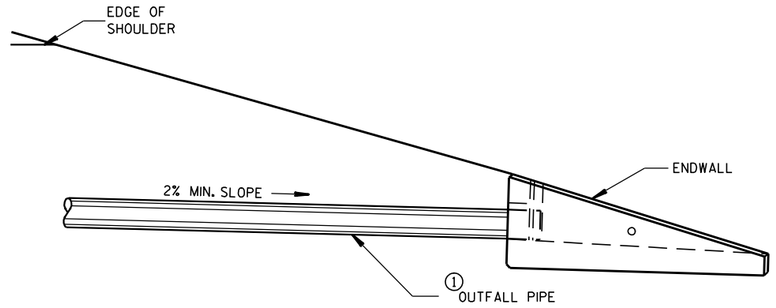
FHWA

SDD 08F04 - 08

SDD 08F04 - 08

DIMENSIONS IN INCHES											
PIPE DIA.	A	B	C	D	E	F	G	H	J	L	Z
**4	6	12	5 1/4	9	8	32	36	11	2 3/8	6 1/2	4
6	8	14	7 1/4	11	10	42	44	13	3 5/8	8 1/2	6

**APRON ENDWALL FOR 6 INCH DIAMETER PIPE MAY BE SUBSTITUTED FOR THIS SIZE PROVIDED THE HOLE IN THE HEADWALL IS SIZED AND LOCATED TO CONFORM TO THE 4 INCH DIAMETER PIPE DIMENSIONS (C & J)



INSTALLATION 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.

ALTERNATIVE DESIGNS WHICH PROVIDE EQUIVALENT CAPACITY AND STRENGTH MAY BE USED WHEN APPROVED BY THE ENGINEER. ENDWALL MAY BE EITHER PRECAST OR CAST-IN-PLACE CONCRETE.

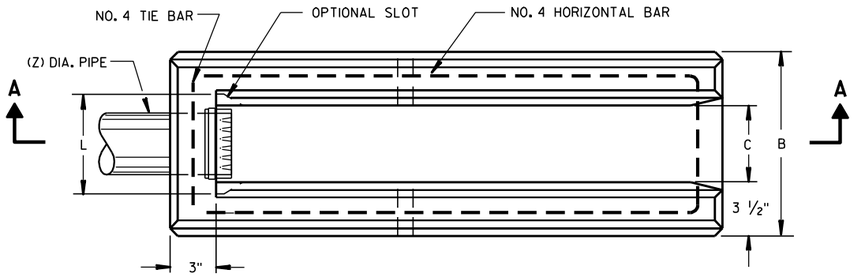
THE UNDERDRAIN PIPE SHALL BE FULLY INSERTED AND SEALED INTO THE ENDWALL WITH CEMENT MORTAR PRIOR TO BACKFILLING AROUND THE STRUCTURE.

THE UPPERMOST POINT OF THE ENDWALL SHALL BE PLACED FLUSH WITH THE ROADWAY SLOPE. ADJACENT EMBANKMENT SLOPES SHALL BE SHAPED TO FIT THE SIDES AND TOE OF THE ENDWALL. EXACT PLACEMENT OF THE OUTFALL PIPE AND ENDWALL SHALL BE DETERMINED BY THE ENGINEER TO MATCH THE ELEVATIONS AND FLOW DIRECTION OF THE ROADSIDE DITCH.

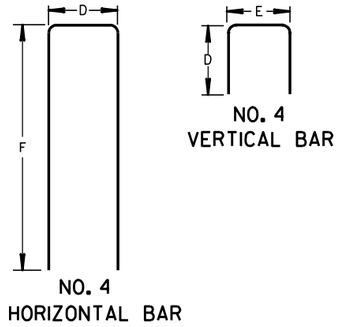
① THE OUTFALL PIPE UNDERDRAIN AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR POLY (VINYL CHORIDE) (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, ASTM DESIGNATION: D 2665, SCHEDULE 40 PVC OR THE STANDARD SPECIFICATION FOR TYPE PSM POLY (VINYL CHORIDE) (PVC) SEWER PIPE AND FITTINGS, ASTM DESIGNATION: D 3034, TYPE PSM SDR 23.5 PVC SEWER PIPE, ALL JOINTS SHALL BE SOLVENT WELDED.

THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS PIPE UNDERDRAIN UNPERFORATED.

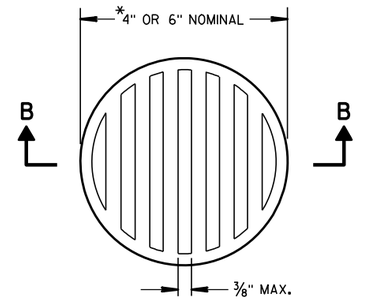
② THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



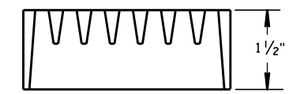
PLAN VIEW



BAR STEEL REINFORCEMENT DETAILS



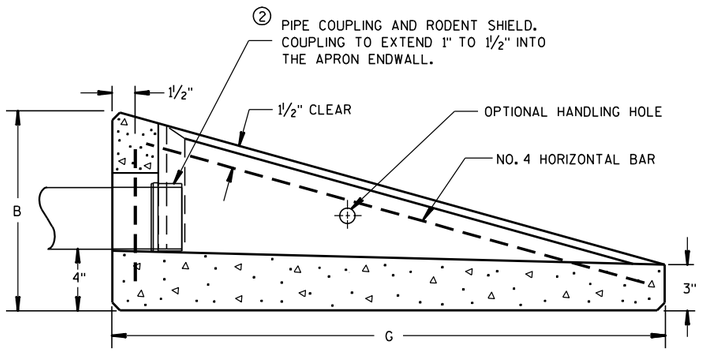
NOTE: ORIENT SHIELD SO SLOTS ARE VERTICAL.



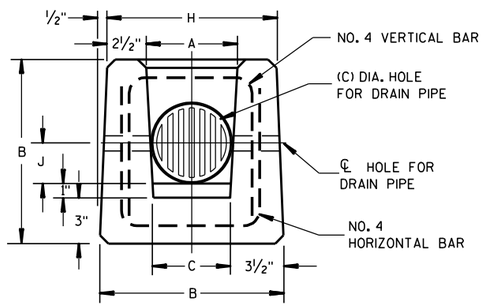
SECTION B-B

② RODENT SHIELD

*NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.



SECTION A-A



END VIEW

CONCRETE APRON ENDWALL FOR UNDERDRAIN

REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

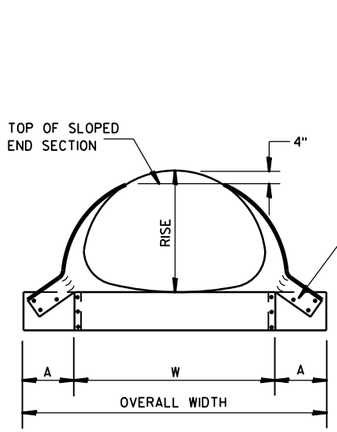
APPROVED
3/10/98 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

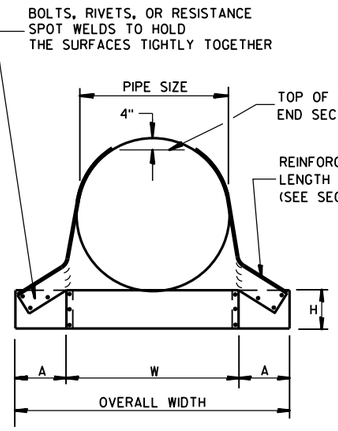
S.D.D. 8 F 6-4

6

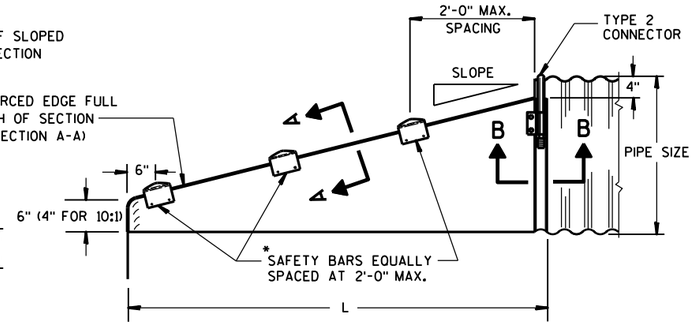
S.D.D. 8 F 6-4



FRONT VIEW



FRONT VIEW



SIDE VIEW

GENERAL NOTES

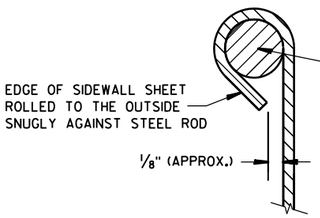
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

STEEL APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS

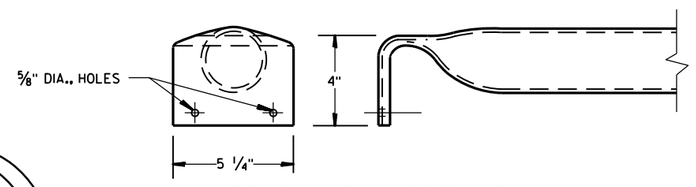
PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1	56	6:1	84	10:1	160
30	.109	12	9	36	60	4:1	80	6:1	120	10:1	220
36	.109	12	9	42	66	4:1	104	6:1	156	10:1	280
42	.109	16	12	48	80	4:1	128	6:1	192	——	——
48	.109	16	12	54	86	4:1	152	6:1	228	——	——
54	.109	16	12	60	92	4:1	176	6:1	264	——	——
60	.109	16	12	66	98	4:1	200	6:1	300	——	——



SECTION A-A

*NOTE:
THREE SAFETY BARS ARE SHOWN. ACTUAL NUMBER OF BARS REQUIRED AT A 2'-0" C-C MAX. SPACING WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

3" GALVANIZED PIPE. FLATTEN ENDS, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.

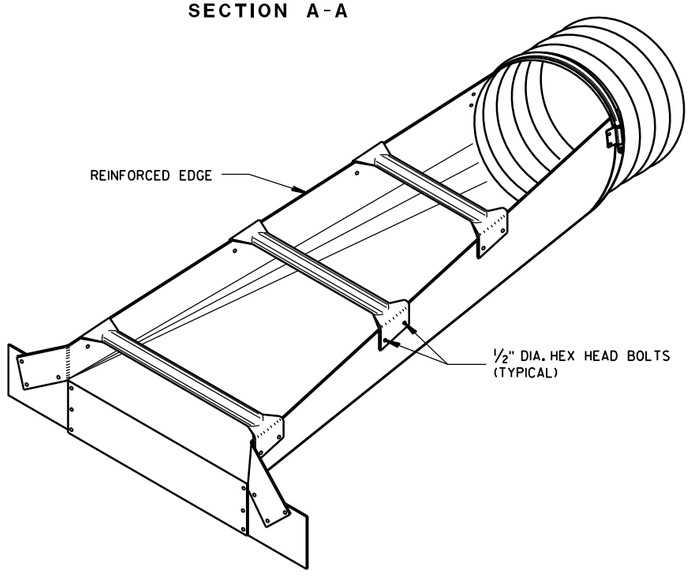


DETAIL OF SAFETY BAR

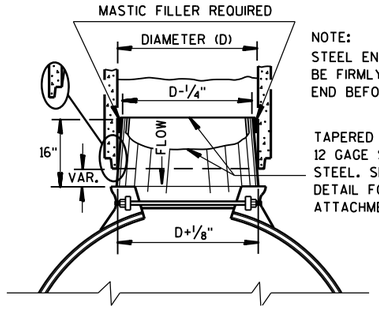
STEEL APRON ENDWALLS FOR PIPE ARCH SLOPED SIDE DRAINS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) ①	DIMENSIONS (Inches) A	H	W	OVERALL WIDTH	L DIMENSIONS SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	17	13	.064 *	7	6	30	44	4:1	19	6:1	30	10:1 ②	70
18	21	15	.064 *	8	6	27	43	4:1	20	6:1	30	10:1	70
21	24	18	.064 *	8	6	30	46	4:1	32	6:1	48	10:1	100
24	28	20	.064 *	8	6	34	50	4:1	40	6:1	60	10:1	120
30	35	24	.079 *	12	9	41	65	4:1	56	6:1	84	10:1	160
36	42	29	.109 *	12	9	48	72	4:1	76	6:1	114	10:1	210
42	49	33	.109	16	12	55	87	4:1	92	6:1	138	——	——
48	57	38	.109	16	12	63	95	4:1	112	6:1	168	——	——
54	64	43	.109	16	12	70	102	4:1	132	6:1	198	——	——

① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



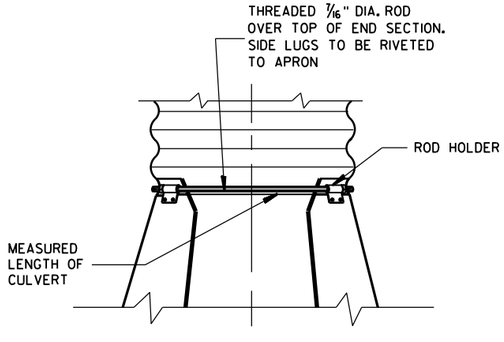
ISOMETRIC VIEW



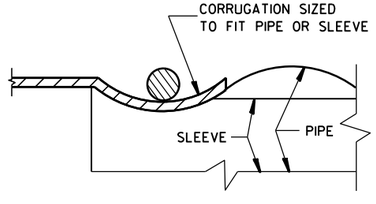
NOTE:
STEEL END SECTION SHALL BE FIRMLY WEDGED INTO PIPE END BEFORE BACKFILLING

TAPERED SLEEVE TO BE 12 GAGE SMOOTH GALVANIZED STEEL. SEE SECTION B-B DETAIL FOR END SECTION ATTACHMENT.

STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



TYPE 2
CONNECTION DETAIL



SECTION B-B

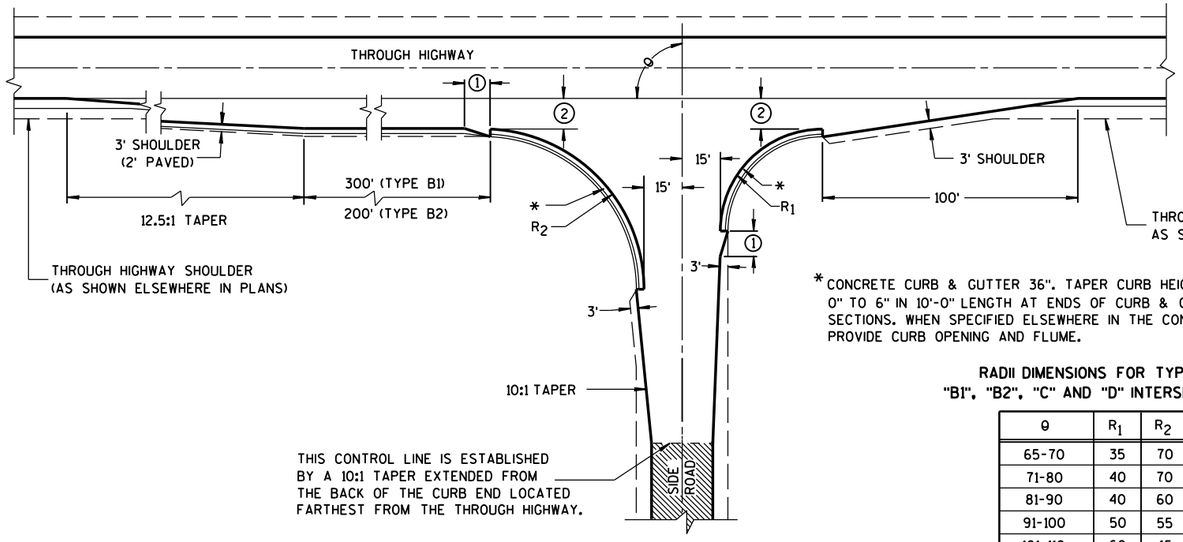
STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/14/2012 DATE
/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 F 7-5

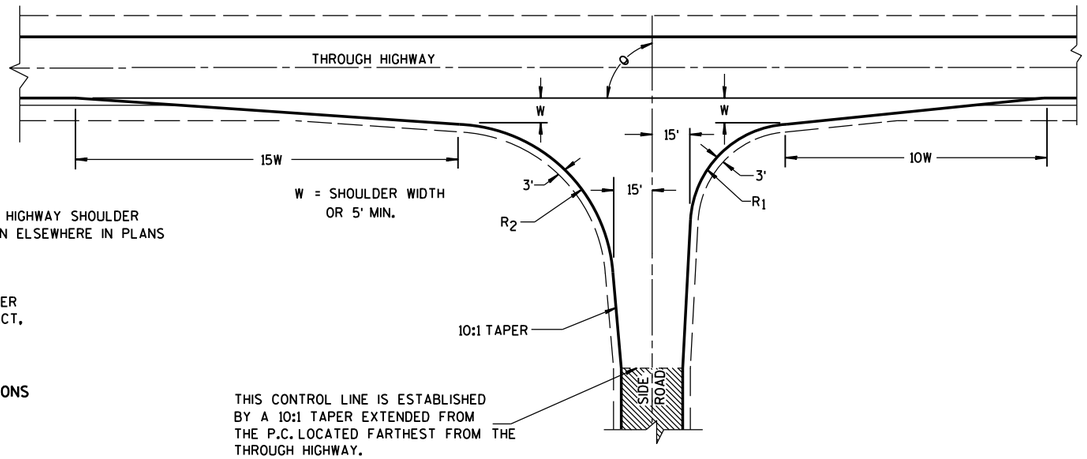


TYPE "B1" AND "B2"

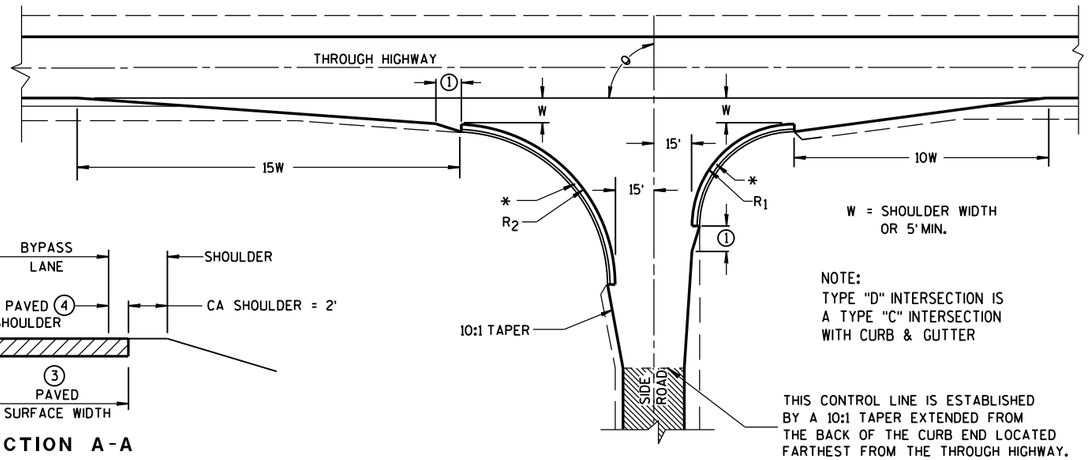
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1	R_2
65-70	35	70
71-80	40	70
81-90	40	60
91-100	50	55
101-110	60	45



TYPE "C"



TYPE "D"

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING PAVED SURFACE

BYPASS LANE

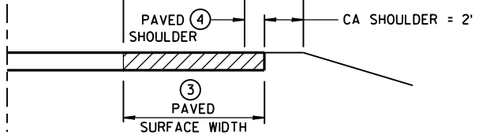
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

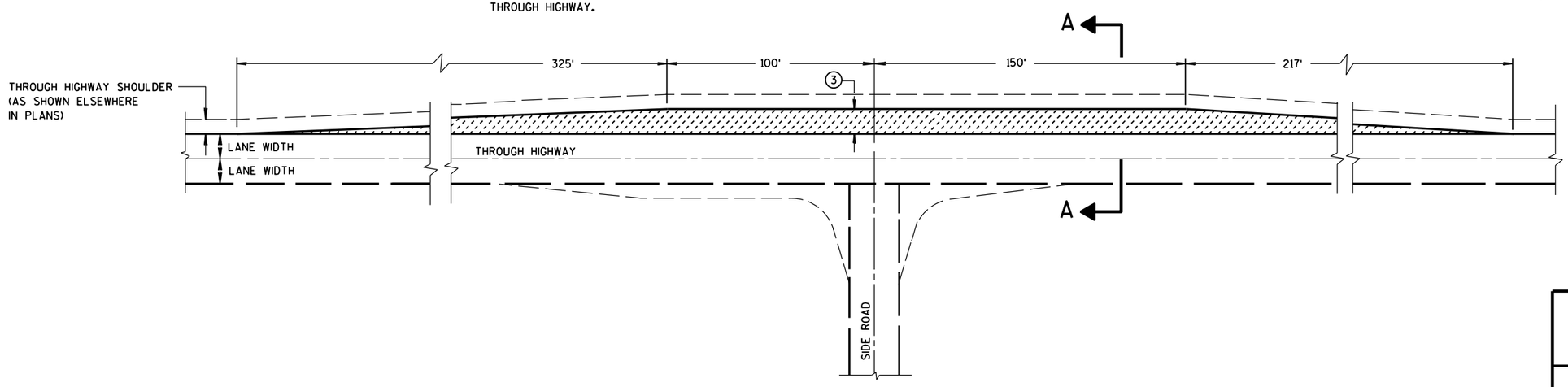
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(3) BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.

(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



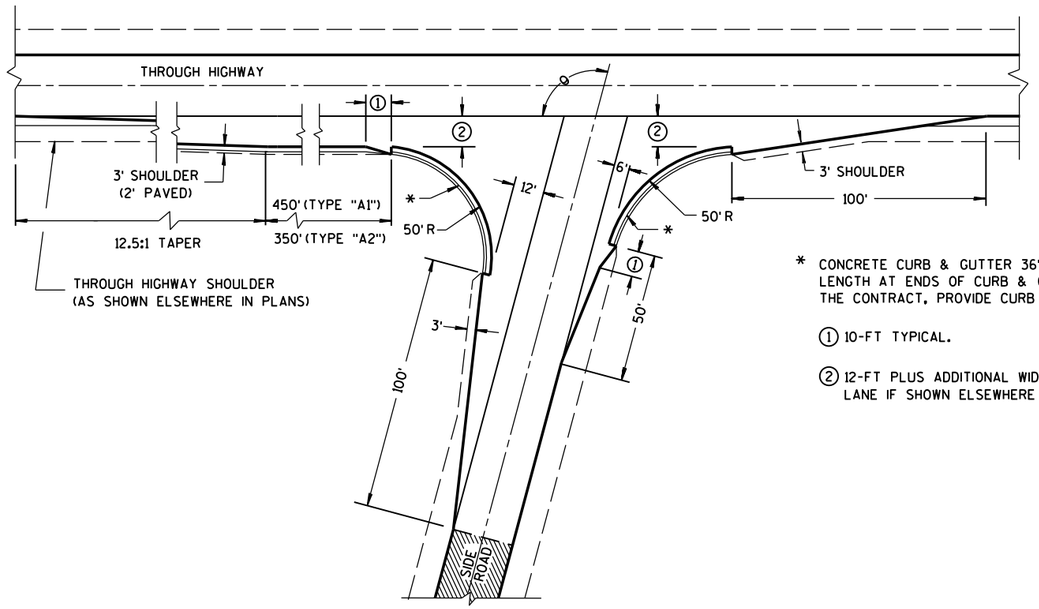
TEE INTERSECTION BYPASS LANE DETAIL

AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND "D" AND TEE INTERSECTION BYPASS LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 9 A 1-13a



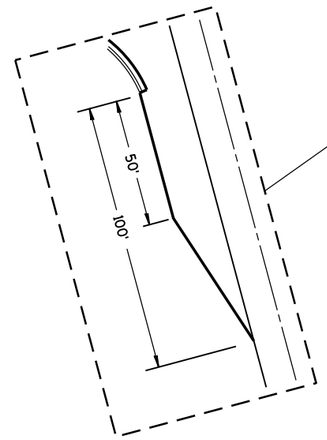
θ = MORE THAN 80°

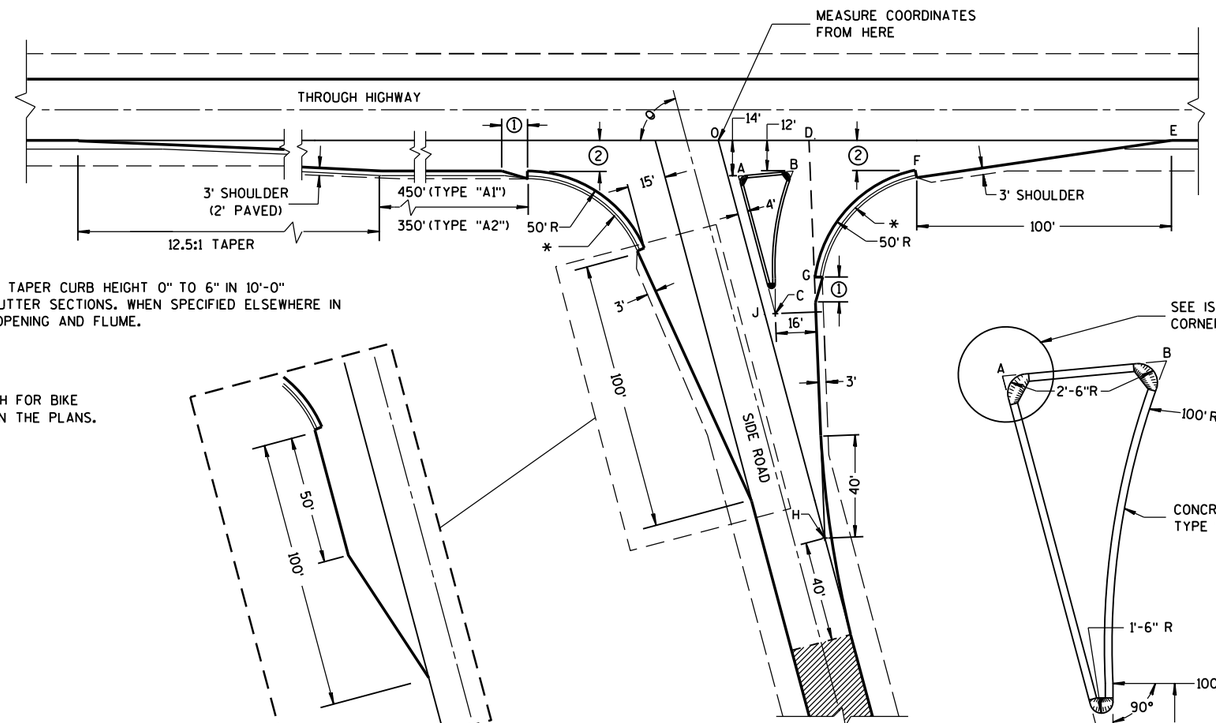
* CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

① 10-FT TYPICAL.

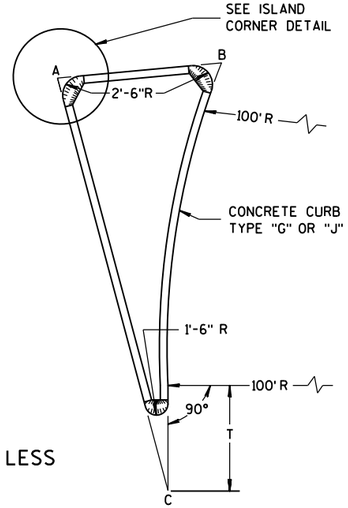
② 12-FT PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLANS.

EXISTING PAVED SURFACE





θ = ACUTE ANGLES 80° OR LESS

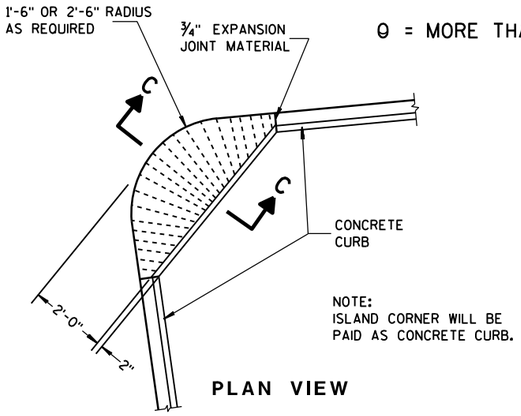


SIDE ROAD WIDENING AND TAPER REQUIRED WHERE THE THROUGH HIGHWAY CARRIES TWO-WAY TRAFFIC
θ = ACUTE ANGLES 70° OR LESS

TABLE OF DIMENSIONS FOR
VARIABLE SIDE ROAD INTERSECTION ANGLES
(INTERPOLATE VALUES FOR ANGLES NOT SHOWN)

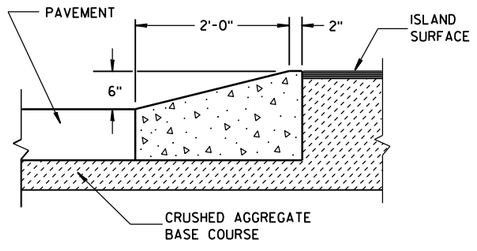
ANGLE θ DEGREES	COORDINATES IN FEET (MEASURED FROM POINT "O") X / Y								LENGTH IN FEET				
	A	B	C	D	E	F	G	H	AB	AC	T	OJ	OH
60	12.7 / -14.0	44.9 / -12.0	46.4 / -72.4	41.9 / 0.0	205.0 / 0.0	104.6 / -12.0	64.0 / -75.5	85.0 / -147.1	32.3	67.4	4.9	85.9	169.9
65	10.9 / -14.0	39.0 / -12.0	37.8 / -71.6	39.4 / 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



NOTE:
ISLAND CORNER WILL BE PAID AS CONCRETE CURB.

PLAN VIEW



SECTION C-C

ISLAND CORNER DETAIL

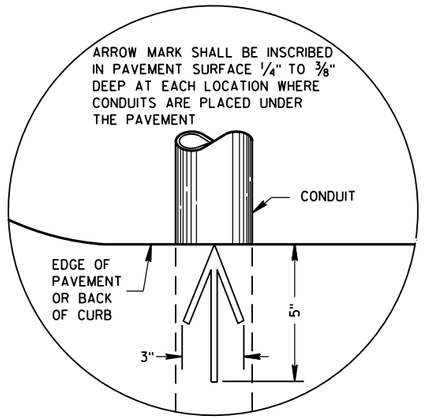
(TO BE CONSTRUCTED AT ALL ISLAND CORNERS)

AT-GRADE SIDE ROAD
INTERSECTION, TYPE "A1" & "A2"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

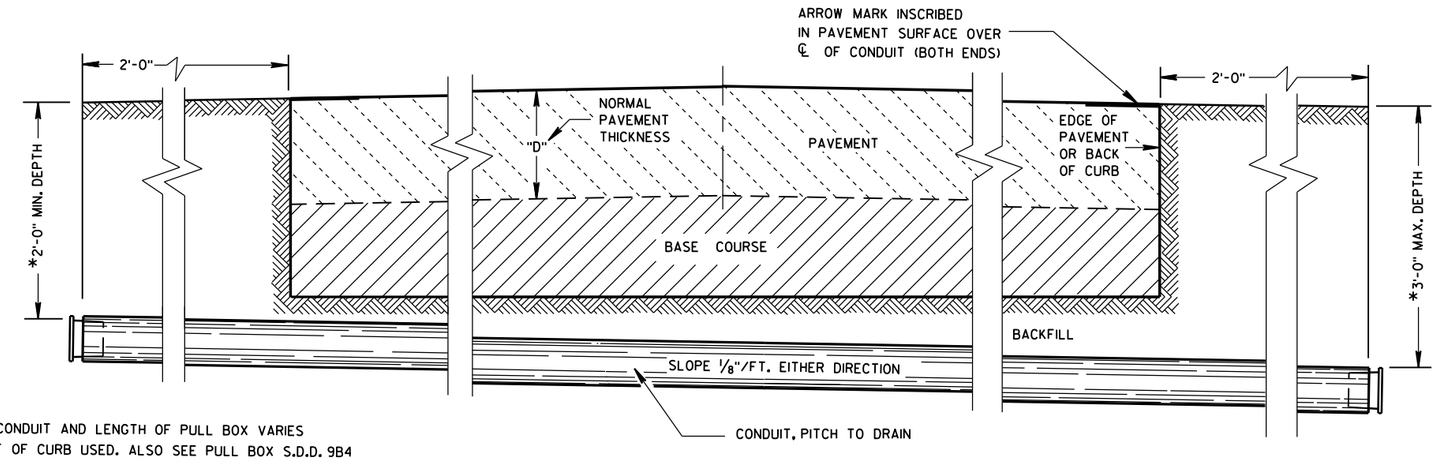
APPROVED
12/18/12 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 9 A 1-13b



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

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

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

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

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

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

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

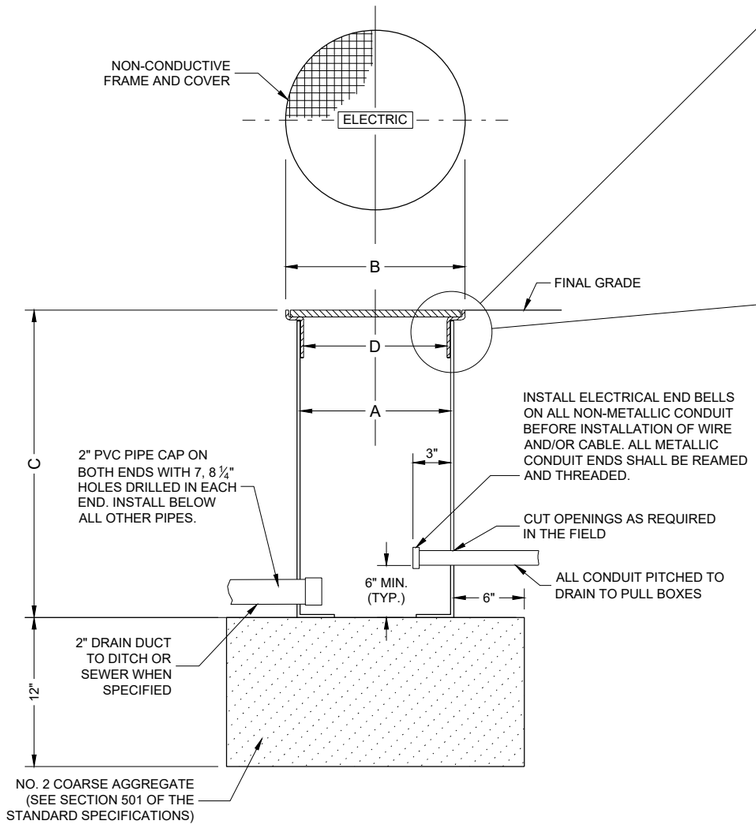
S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

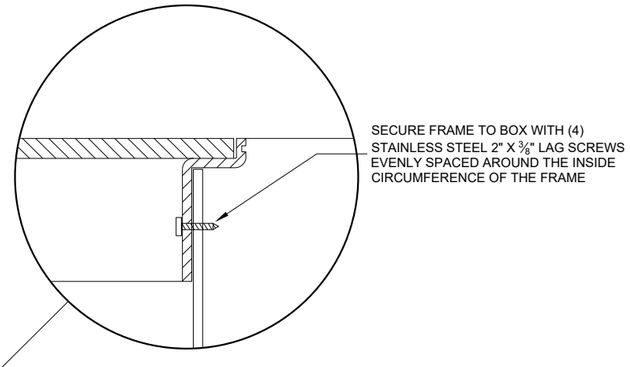
DIMENSION IN INCHES		NON- CONDUCTIVE PULL BOX	
BOX DIAMETER ** (INSIDE)	A	24	24
BOX OVERALL OUTSIDE DIAMETER	B	27	27
BOX LENGTH	C	36	42
FRAME OPENING	D	22 ½	22 ½
WEIGHT IN POUNDS *			
COVER		50	50
BOX ONLY		75	85

* THE ACTUAL WEIGHT OF THE COVER OR BOX ONLY MAY VARY NOT TO EXCEED 100 LBS INDIVIDUALLY.

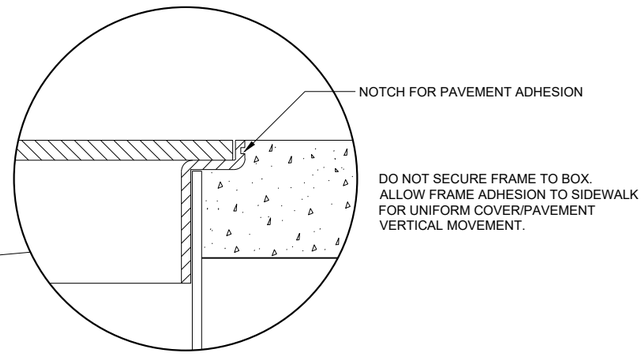
** DIAMETER VARIES FROM TOP TO BOTTOM WITH THE DIAMETER LARGER AT THE BOTTOM TO PREVENT FROST HEAVE.



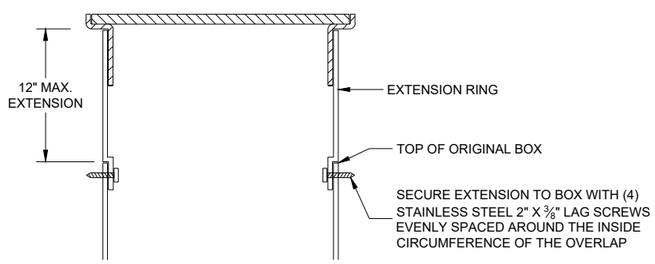
NON-CONDUCTIVE PULL BOX



INSTALLED IN SOD OR CRUSHED AGGREGATE



INSTALLED IN SIDEWALK



BOX EXTENSION

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 ½" DIAMETER

ENSURE COVER SURFACE IS SKID RESISTANT WITH A COEFFICIENT OF FRICTION OF AT LEAST 0.5 AND VERTICAL SURFACE DICONTINUITIES LESS THAN ¼".

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 ¼".

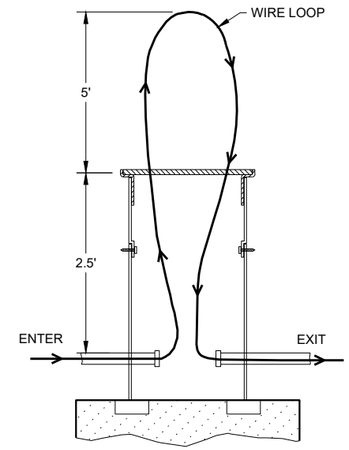
THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

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.



MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX

PULL BOXES NON-CONDUCTIVE

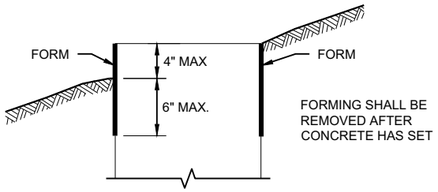
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 257

FHWA

6
SDD 09B16 - 02

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

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

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

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

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

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

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

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

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

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

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

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

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

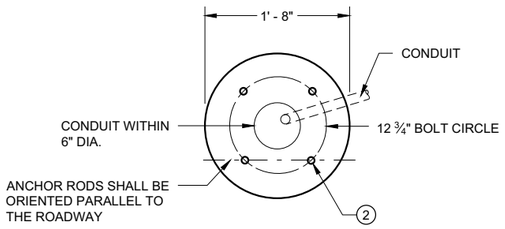
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

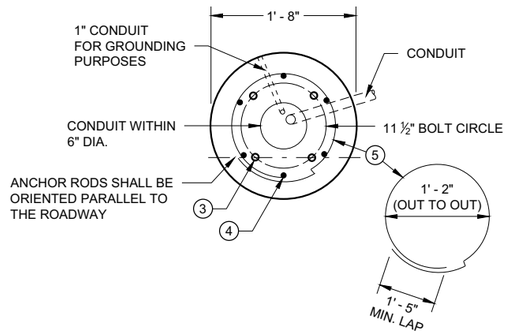
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

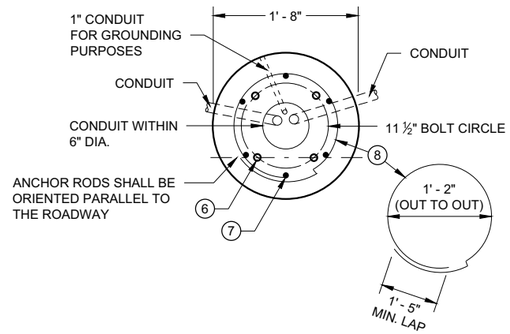
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

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

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







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

2 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

3 (4) 1" DIA. X 5' - 0" ANCHOR RODS.

4 (6) NO. 6 X 6' - 8" BAR STEEL REINFORCEMENT.

5 (7) NO. 4 X 5' - 1" BAR STEEL REINFORCEMENT @ 1' - 0" C - C.

6 (4) 1" DIA. X 3' - 6" ANCHOR RODS.

7 (6) NO. 4 X 4' - 8" BAR STEEL REINFORCEMENT.

8 (5) NO. 4 X 5' - 1" BAR STELL REINFORCEMENT @ 1' - 0" C -C.

9 EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

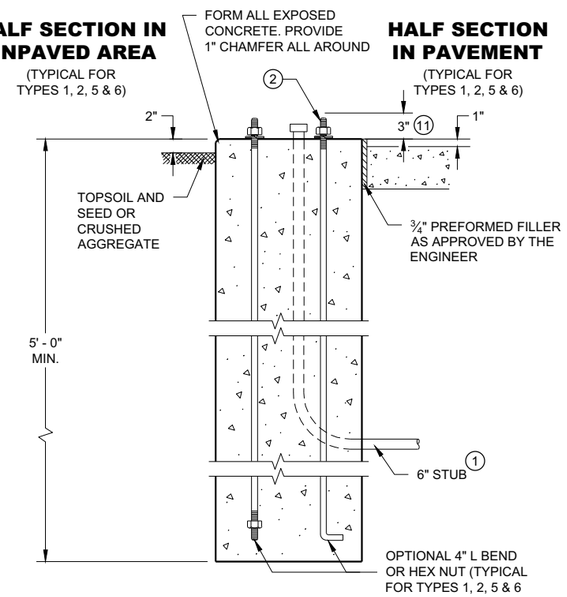
10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

11 ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

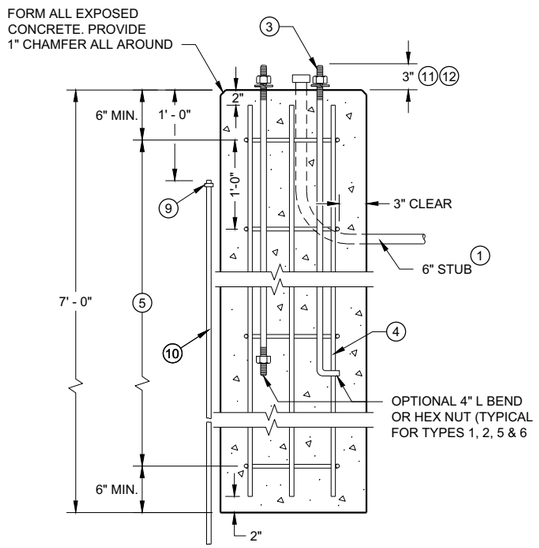
12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5 & 6)

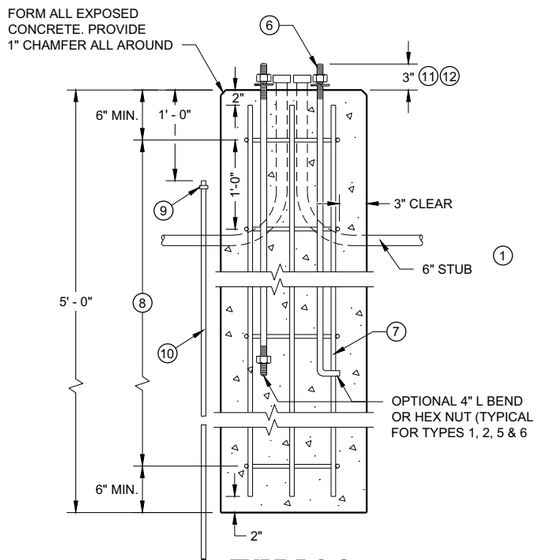
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 1



TYPE 2



TYPE 5 & 6

CONCRETE BASES

CONCRETE BASES TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 258

FHWA

GENERAL NOTES

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

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

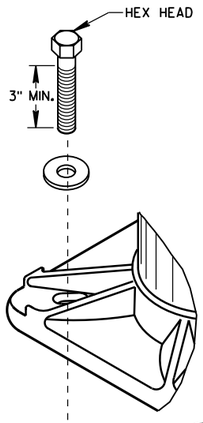
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

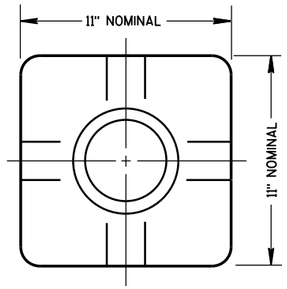
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

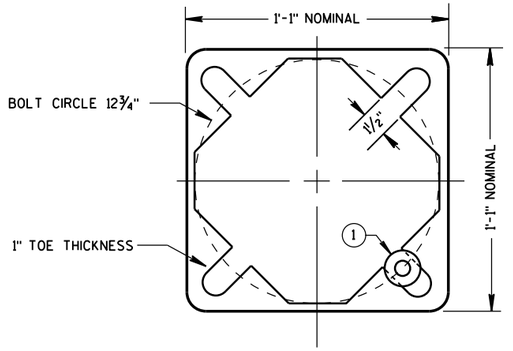
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

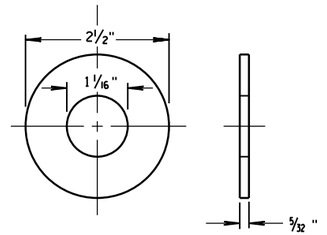




TOP VIEW
(PEDESTAL BASE)

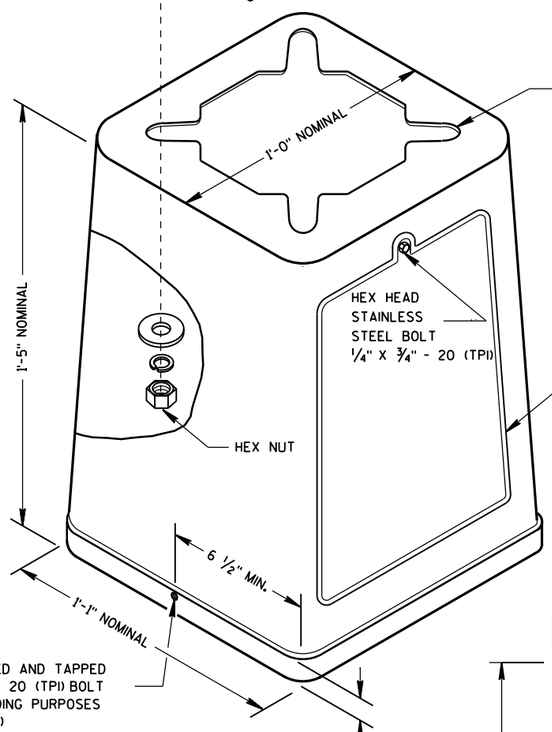


BOTTOM VIEW
(PEDESTAL BASE)

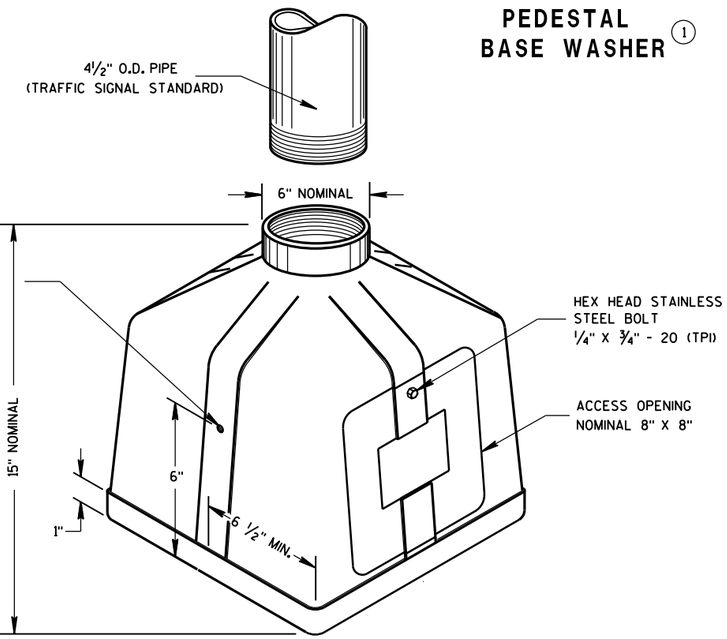


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

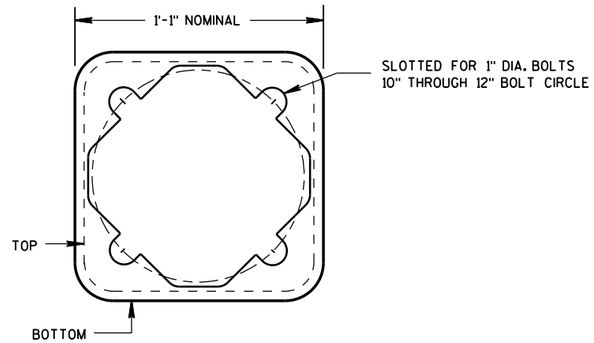
PEDESTAL BASE WASHER (1)



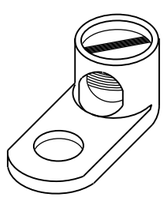
ISOMETRIC VIEW



ISOMETRIC VIEW
PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

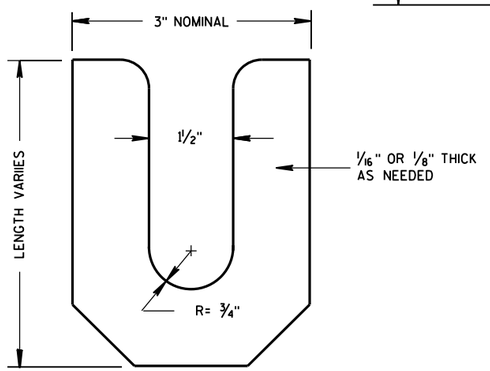


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

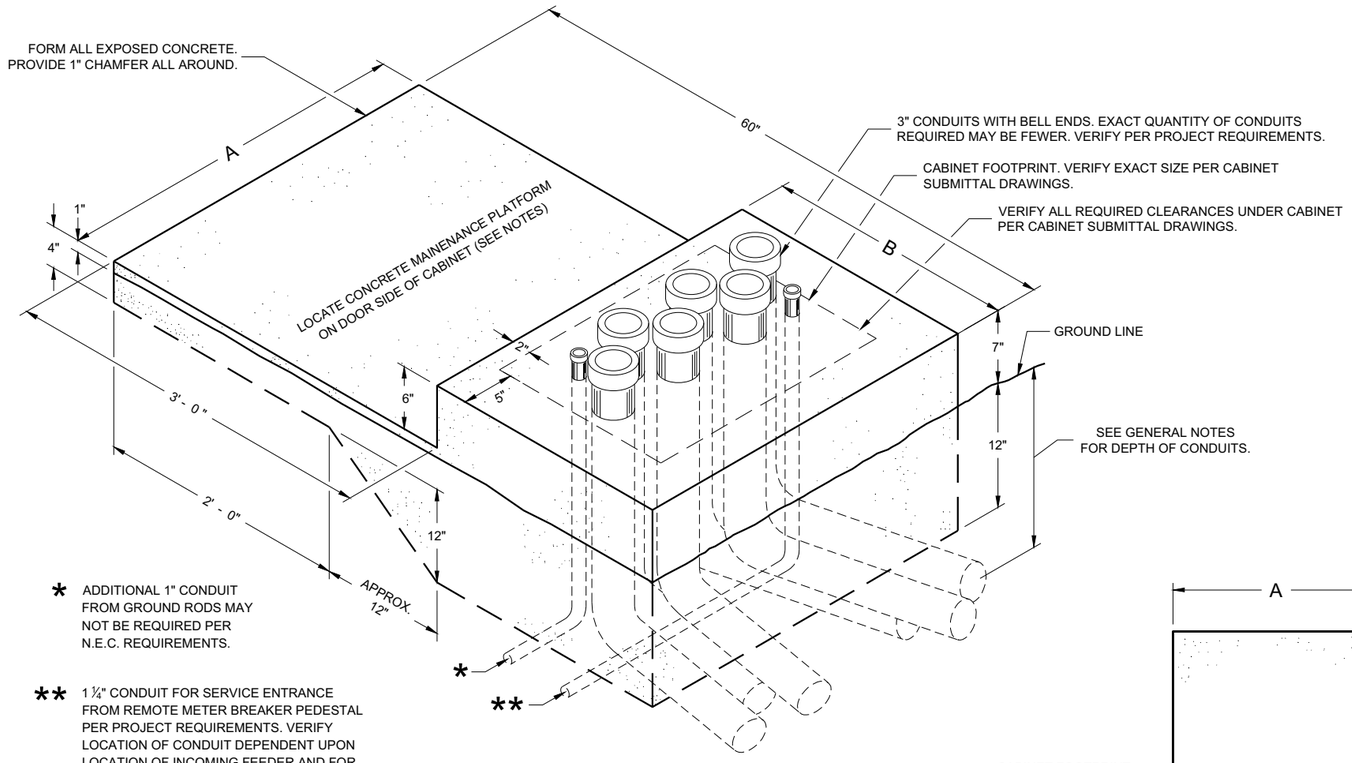
TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
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Sept. 2014 — DATE
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* ADDITIONAL 1" CONDUIT FROM GROUND RODS MAY NOT BE REQUIRED PER N.E.C. REQUIREMENTS.

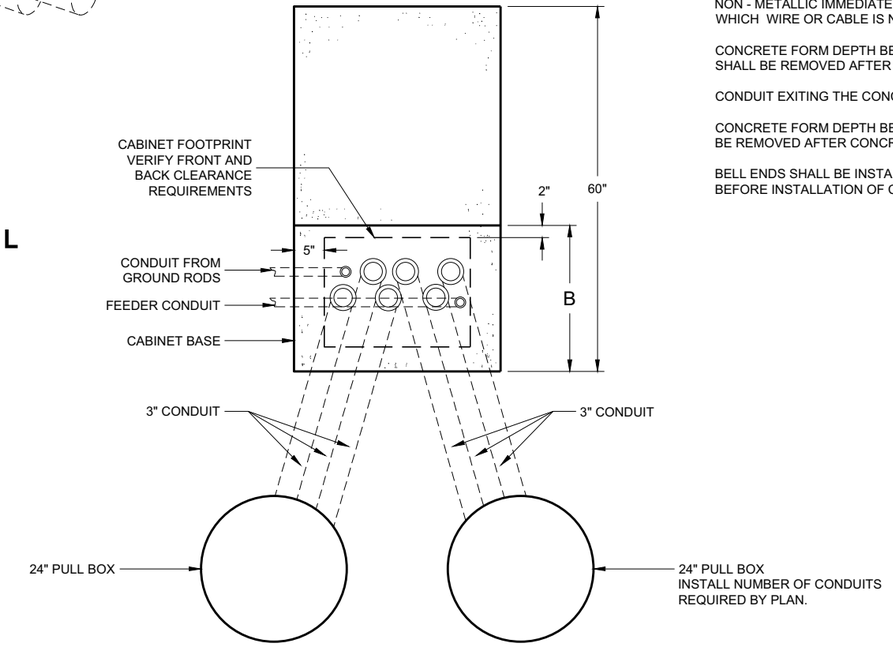
** 1 ¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. VERIFY LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

ISOMETRIC VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

(C.Y. CONCRETE = APPROX. 0.4)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSIONS		MAXIMUM 3" CONDUITS
		A	B	
L24	24"	34"	24"	4
L30	30"	40"	24"	6



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

GENERAL NOTES

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

INSTALL FOUR STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET BASES. THE ANCHORS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

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

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

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

LOCATIONS SHALL BE AS SHOWN ON THE PLANS UNLESS DETERMINED BY THE ENGINEER IN THE FIELD.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT EQUALS 6 TIMES THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NON - METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON - METALLIC 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 INCHES MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

CONDUIT EXITING THE CONCRETE BASE SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCH MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

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

CONCRETE CONTROL CABINET BASE, TYPE L

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
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GENERAL NOTES

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

THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING. A STEEL CASING OR CORRUGATED METAL PIPE IS ALLOWED TO REMAIN. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BASE IN LAYERS OF ONE FOOT OR LESS.

TOP SURFACE 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.

THE REINFORCEMENT AND ANCHOR RODS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR RODS STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

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

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

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

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

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

FORM ALL EXPOSED CONCRETE CORNERS WITH 1" CHAMFER ALL AROUND. TOP OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS.

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

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 ½" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NON-METALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

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

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

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

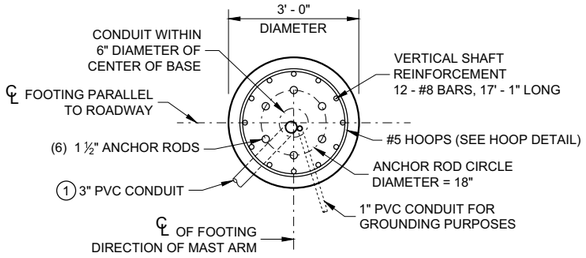
A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

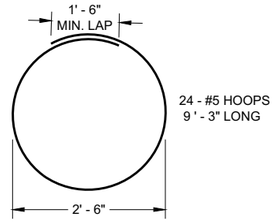
THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

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

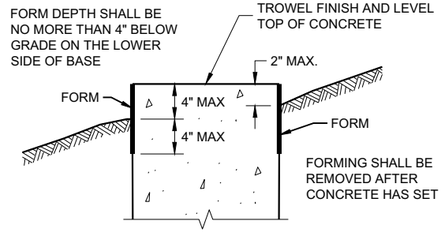
CONCRETE MASONRY.....fc = 3,500 p.s.i
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION).....fy = 55,000 p.s.i.
TEMPLATES, ASTM A709, GRADE 36.....fy = 36,000 p.s.i.



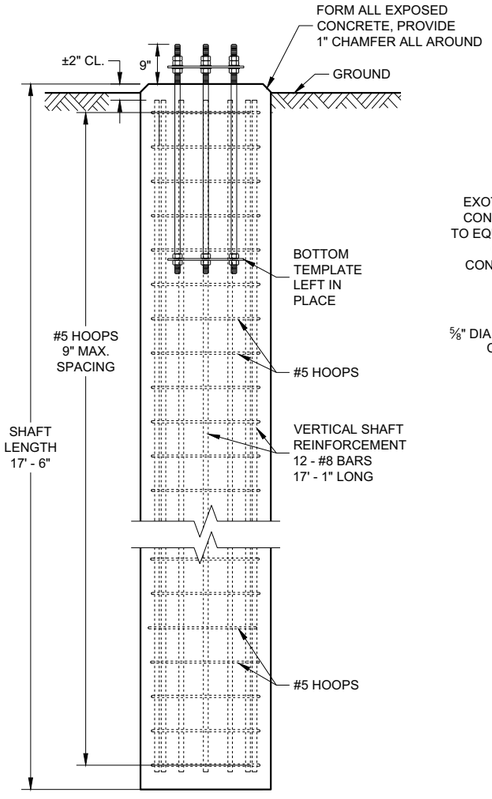
PLAN VIEW



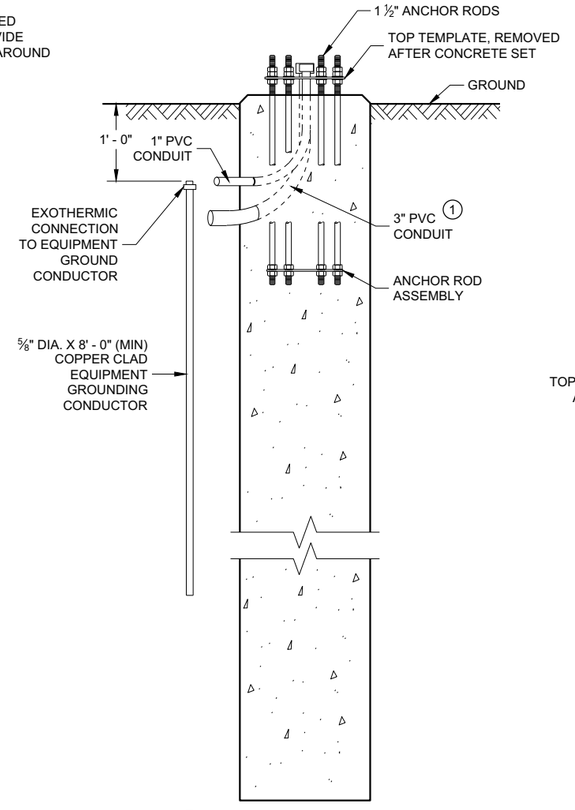
HOOP DETAIL



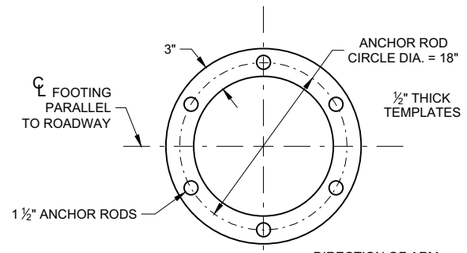
FORMING DETAIL



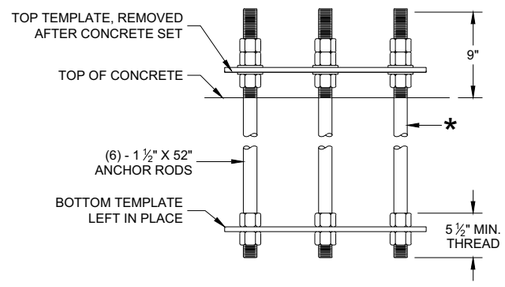
ELEVATION VIEW
(CONDUITS NOT SHOWN ON THIS VIEW FOR CLARITY)



SIDE VIEW
(HOOPS AND VERTICAL SHAFT REINFORCEMENT NOT SHOWN ON THIS VIEW FOR CLARITY)



TOP AND BOTTOM TEMPLATE



ANCHOR ROD ASSEMBLY DETAILS

* THREAD TOP 10" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 5 ½" FOR 2 NUTS PER ANCHOR ROD. HOT DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR ROD (ASTM A123) AND HOT DIP NUTS AND WASHERS (ASTM A153. USE ZINC COATED NUTS MANUFACTURED WITH SUFFICIENT ALLOWANCE TO ALLOW NUTS TO RUN FREELY ON THE THREADS.

CONCRETE BASE, TYPE 10 SPECIAL
(FOR TYPE 9 SPECIAL AND TYPE 10 SPECIAL POLES)

CONCRETE = 4.6 CUBIC YARD
H.S. REINFORCEMENT = 779 LBS.

FOR USE WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION.

CONCRETE BASE TYPE 10 SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

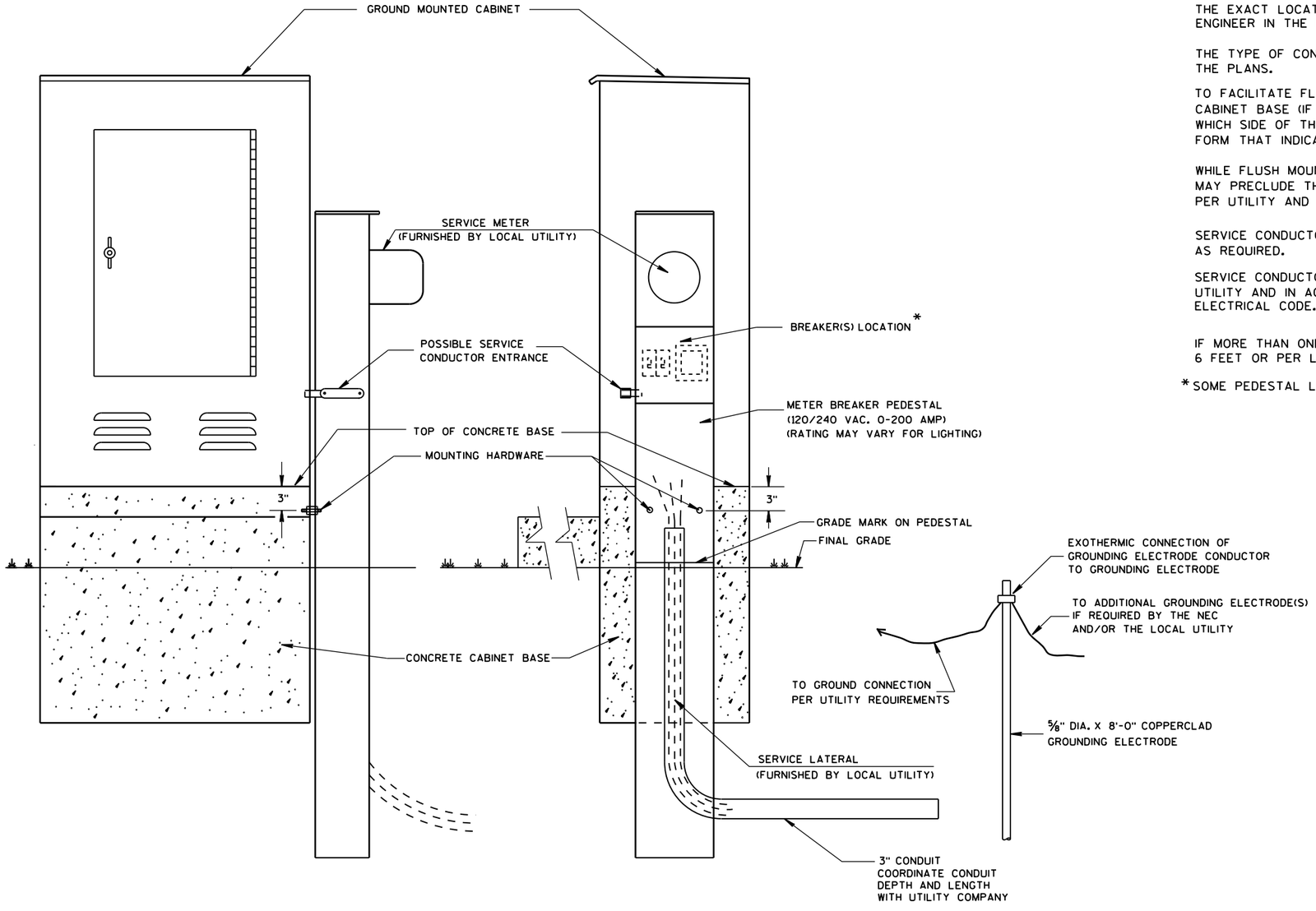
APPROVED
August 2020 — DATE
/S/ Alex Crabtree — WIND LOADED STRUCTU PROGRAM LEADER
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TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

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

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

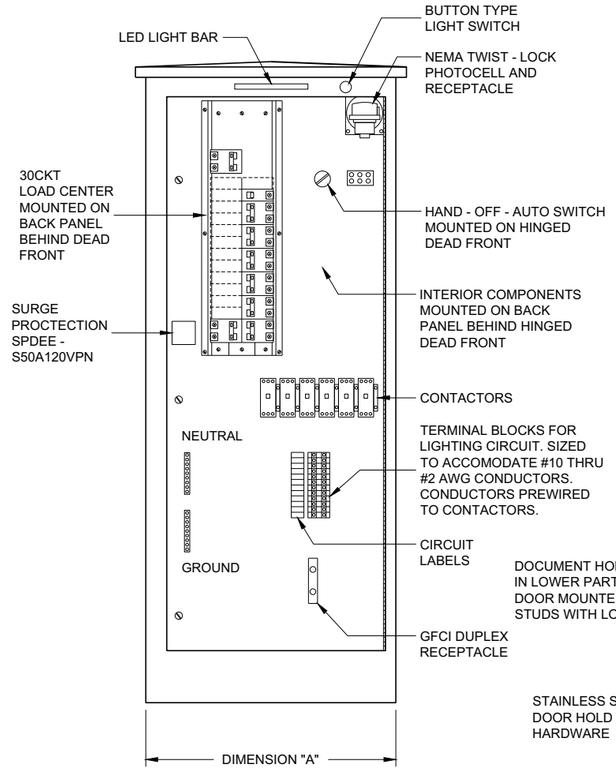
CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

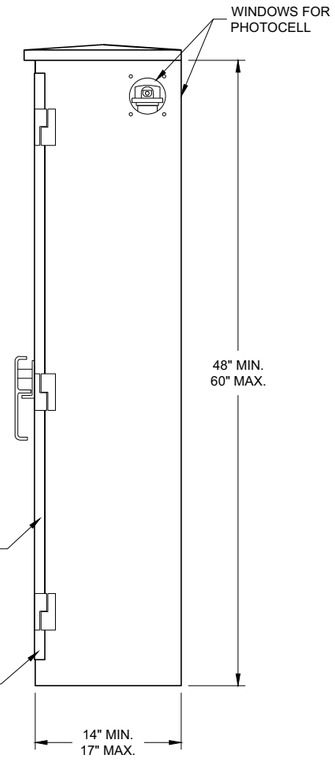
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Sept. 2014 — DATE
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FRONT INTERIOR ELEVATION



SIDE VIEW



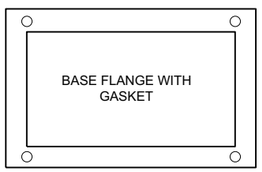
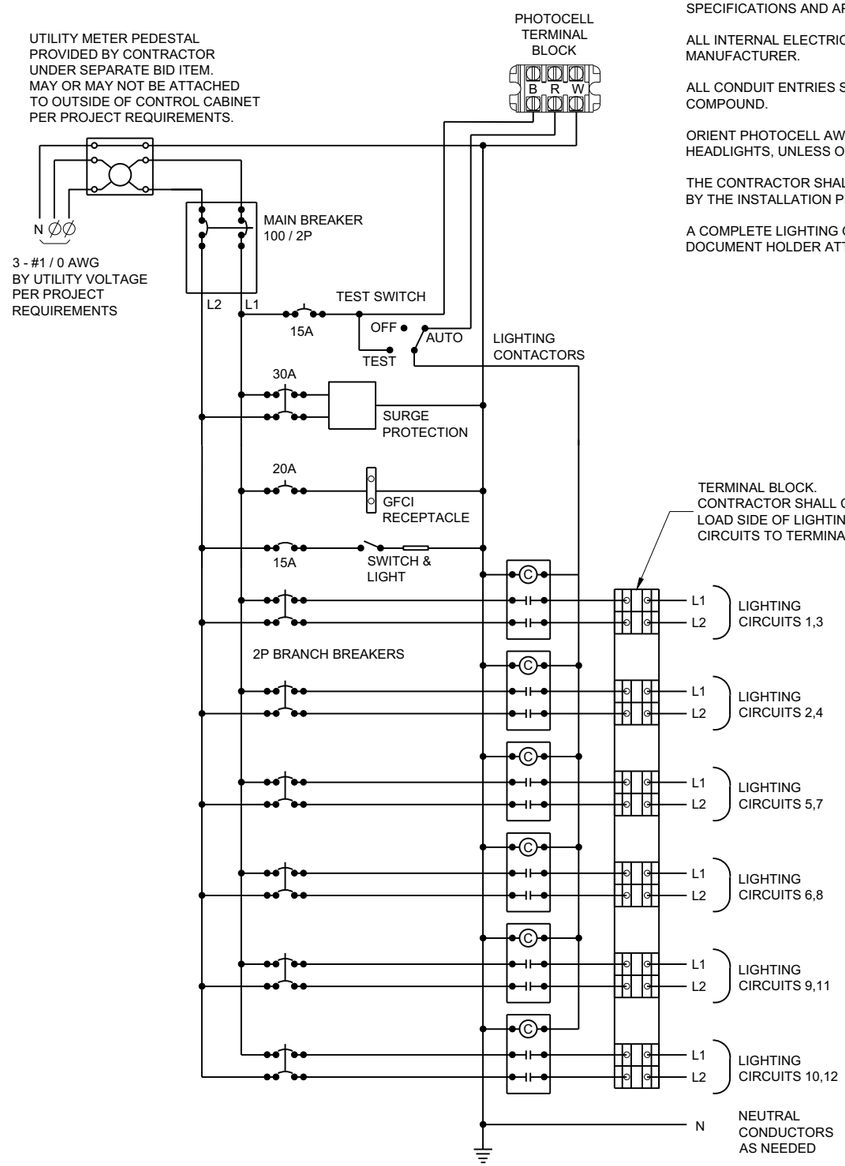


TABLE OF DIMENSIONS (INCHES)		
CONCRETE BASE TYPE	CABINET WIDTH	DIMENSION "A"
L24	24"	24"
L30	30"	30"

LIGHTING CONTROL CABINET



CONTROL CABINET SCHEMATIC

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

ALL INTERNAL ELECTRICAL COMPONENTS WILL BE PRE - WIRED BY THE CABINENT MANUFACTURER.

ALL CONDUIT ENTRIES SHALL BE SEALED WITH AN APPROPRIATE DUCT SEALING COMPOUND.

ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS, UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISION.

THE CONTRACTOR SHALL TOUCH UP ANY DAMAGE TO THE ANODIZED FINISH CAUSED BY THE INSTALLATION PROCESS. COLOR MATCH PAINT SHALL BE USED.

A COMPLETE LIGHTING OR ELECTRICAL PLAN SHALL BE SECURELY PLACED IN THE DOCUMENT HOLDER ATTACHED TO THE DOOR.

LIGHTING CONTROL CABINET 120 / 240 VOLT

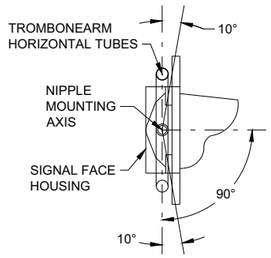
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
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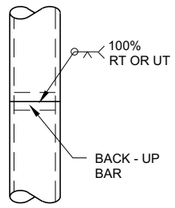


SECTION A-A

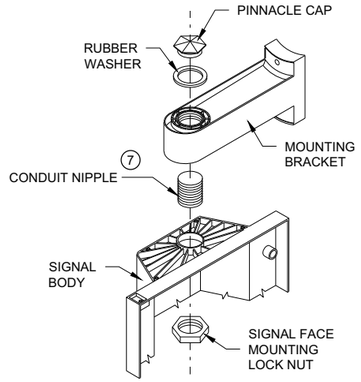
(10 DEGREES TILT REQUIREMENT OF FACE(S) IN THE TROMBONE MOUNTING)

FOR MANUFACTURERS USE ONLY

WELD TO BE 100% R.T. OR U.T. TESTED AS PER THE REQUIREMENTS OF AWS D 1.5-88. RECORDS OF COMPLIANCE OF SUCH TESTING SHALL BE FURNISHED TO THE OFFICE OF DESIGN / BRIDGE FOR VERIFICATION AND APPROVAL.



POLE SPLICE DETAIL



SIGNAL FACE MOUNTING DETAIL

(BANDED)

GENERAL NOTES

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

POLES SHALL BE EITHER ALUMINUM OR GALVANIZED STEEL AS CALLED FOR IN THE CONTRACT.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

A PULL WIRE / ROPE SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

TYPE 2 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063 - T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

(2) SIGNAL FACE MOUNTING BRACKETS. MOUNT WITH CAP SCREWS AND BANDING.

(3) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(4) SECURELY MOUNT DULL BLACK POLYCARBONATE BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING,PER MANUFACTURER'S RECOMMENDATIONS.

(5) POLE MOUNTED SIGNAL FACES SHALL REQUIRE ONE OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) ASREQUIRED, TO PLUMB THE SIGNAL FACES.

(6) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

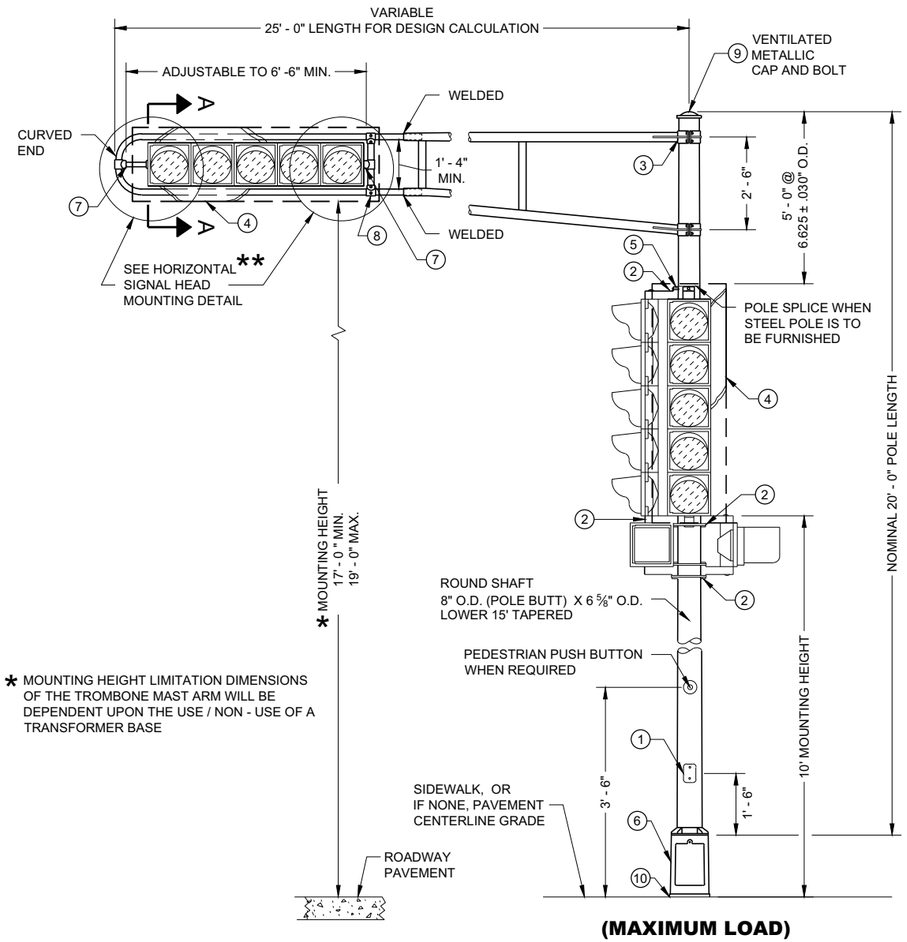
(7) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOTINTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACES AND BRACKET ENDS.

(8) VERTICAL STRUT (ADJUSTABLE). ONE (1) SET SCREW (¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD) INTO EACH ARM MEMBER IF STRUTIS THE SLIDING TYPE.

(9) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

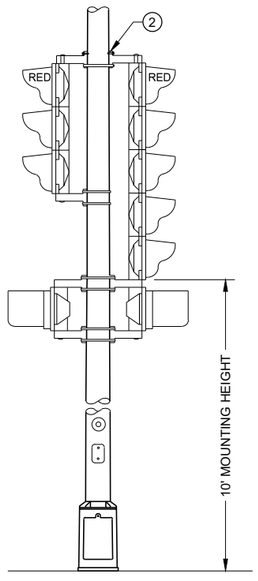
(10) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

(11) USE SERRATED LOCK WASHERS WITH NOTCHES BETWEEN END TEE AND SIGNAL HEAD.

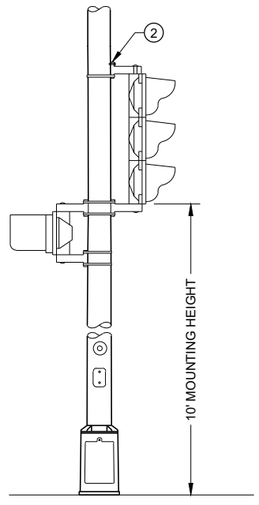


* MOUNTING HEIGHT LIMITATION DIMENSIONS OF THE TROMBONE MAST ARM WILL BE DEPENDENT UPON THE USE / NON - USE OF A TRANSFORMER BASE

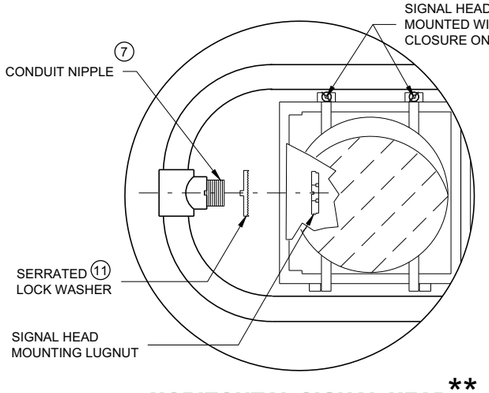
(MAXIMUM LOAD)



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE



HORIZONTAL SIGNAL HEAD MOUNTING DETAIL **

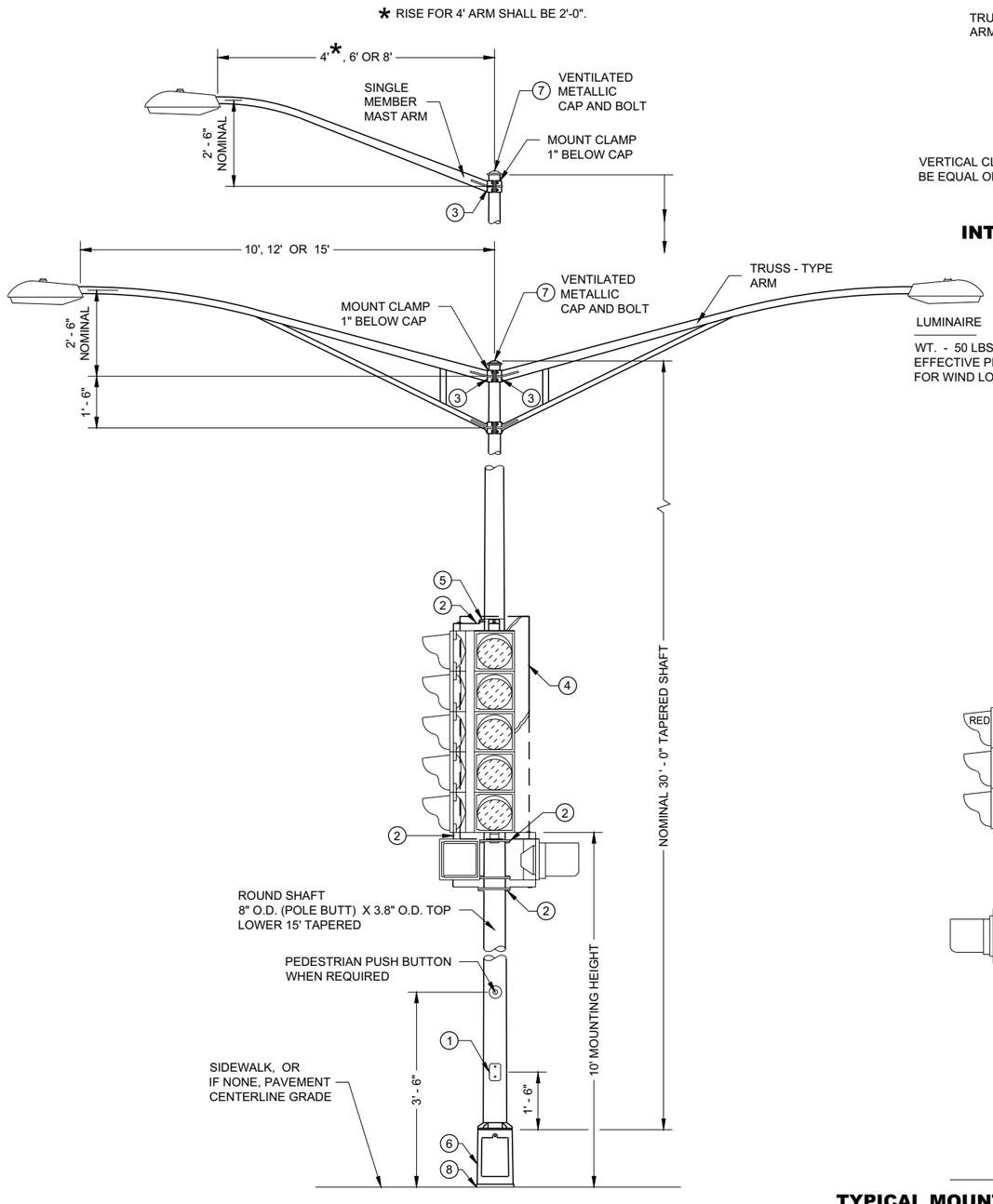
** SIGNAL HEAD ATTACHMENT ALSO APPLIES TO MOUNTING AT CROSS BAR

TYPE 2 POLE MOUNTING CONFIGURATION

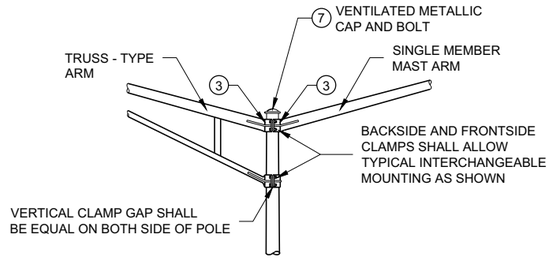
POLE MOUNTINGS FOR TRAFFIC SIGNALS TYPE 2

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(MAXIMUM LOAD)



INTERCHANGEABLE MOUNTING DETAIL

GENERAL NOTES

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

ALL TYPE 4 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL WITH A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

A PULL WIRE / ROPE SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 ⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

(2) SIGNAL FACE MOUNTING BRACKETS. MOUNT WITH CAP SCREWS AND BANDING.

(3) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(4) SECURELY MOUNT DULL BLACK POLYCARBONATE BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURER'S RECOMMENDATIONS.

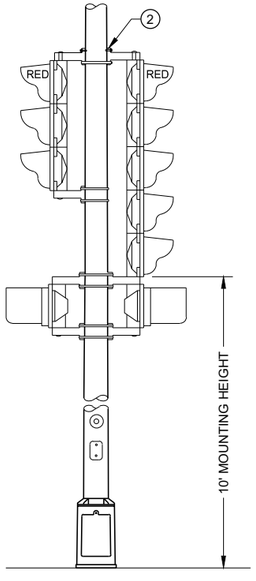
(5) POLE MOUNTED SIGNAL FACES SHALL REQUIRE ONE OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACE.

(6) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

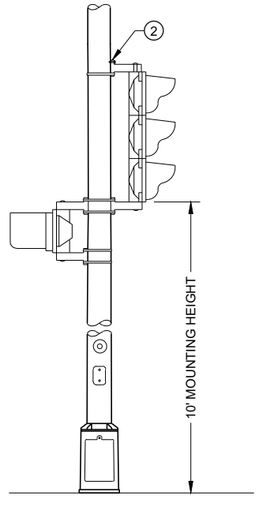
(7) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(8) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

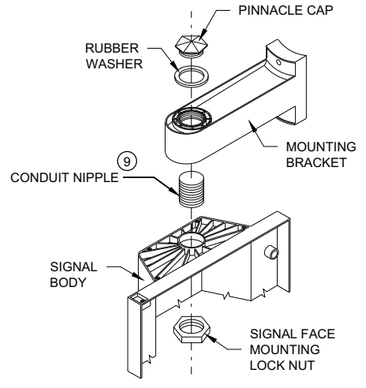
(9) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACES AND BRACKET ENDS.



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE



SIGNAL FACE MOUNTING DETAIL
(BANDED)

TYPE 4 POLE MOUNTING CONFIGURATION

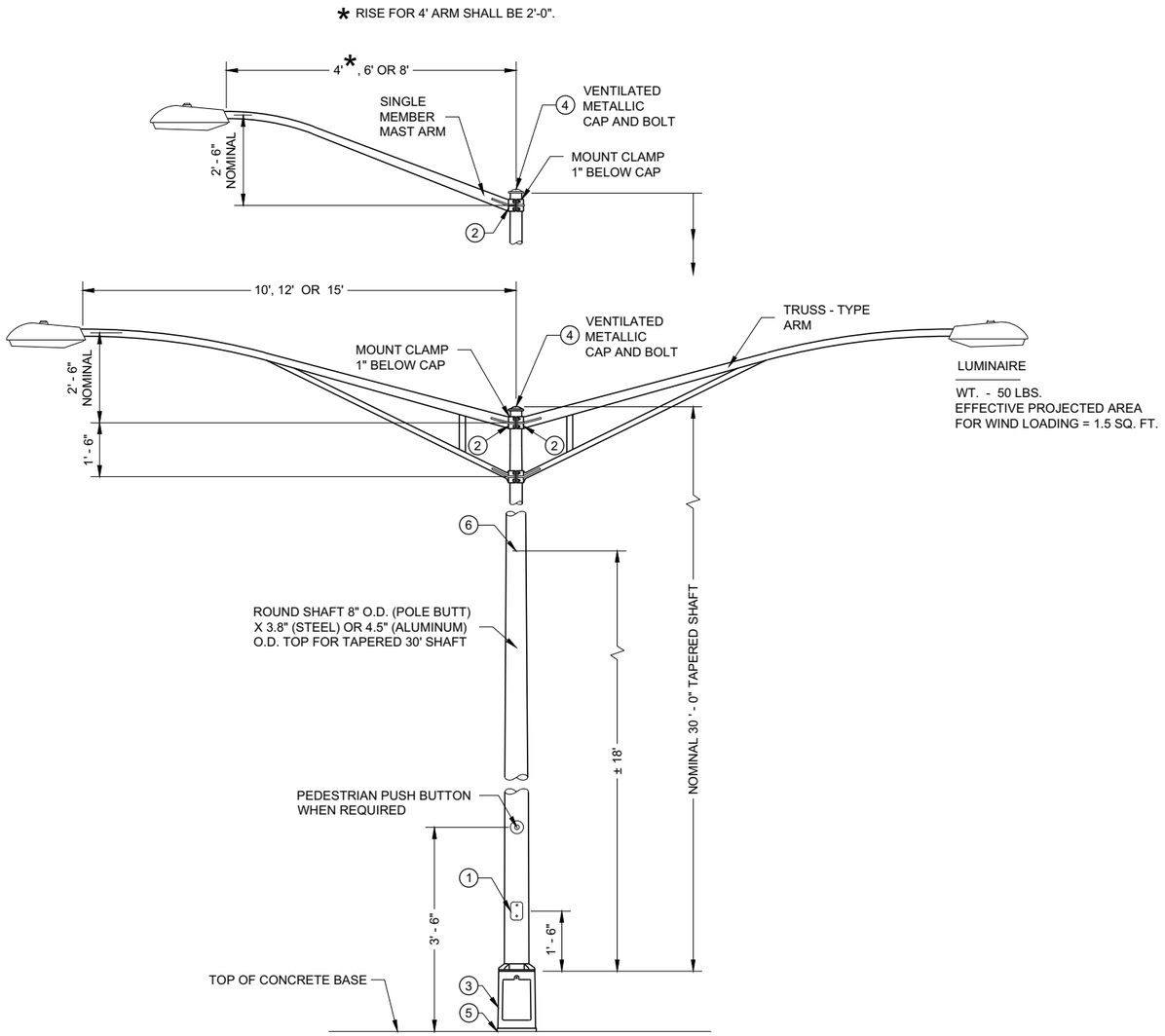
POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 4

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TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY

GENERAL NOTES

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

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063 - T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.1888".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (0.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 ⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼" X ¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

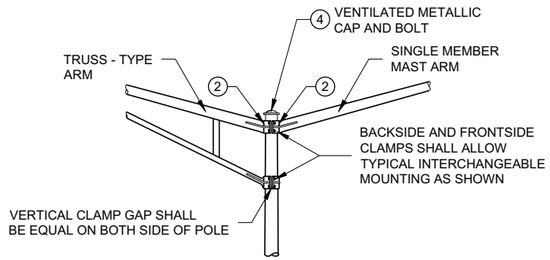
(2) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(6) INTERNAL DUMBBELL - TYPE VIBRATION DAMPER.

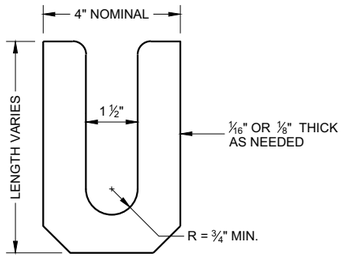


INTERCHANGEABLE MOUNTING DETAIL

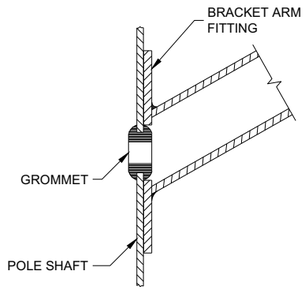
POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

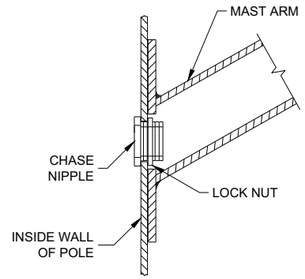
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LEVELING SHIM (1)
SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

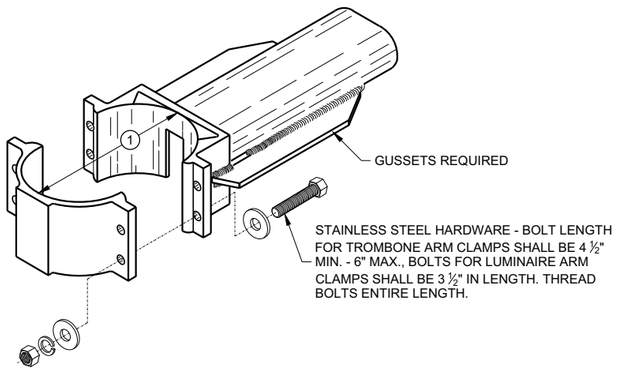
(1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(2) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

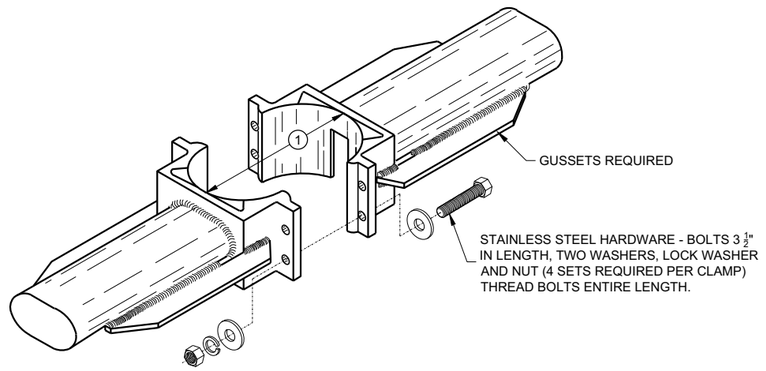
(3) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(4) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

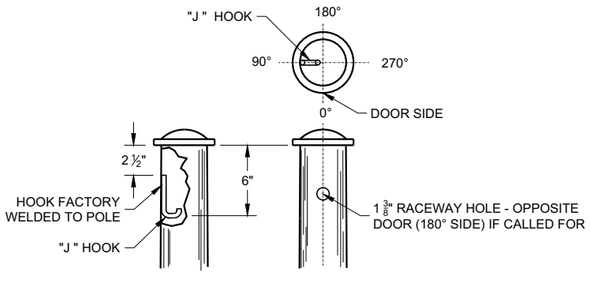
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



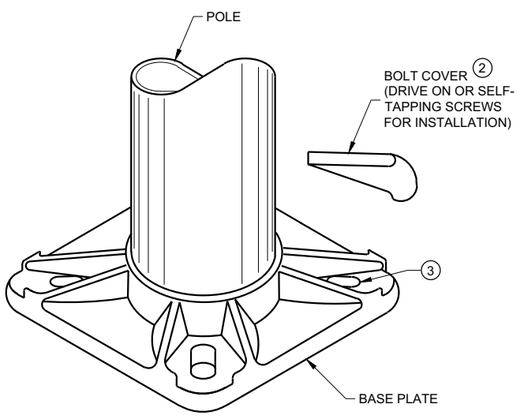
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



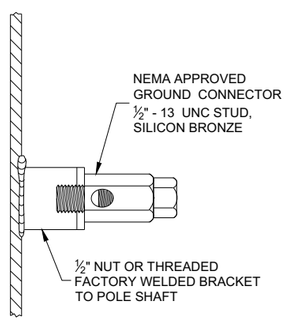
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

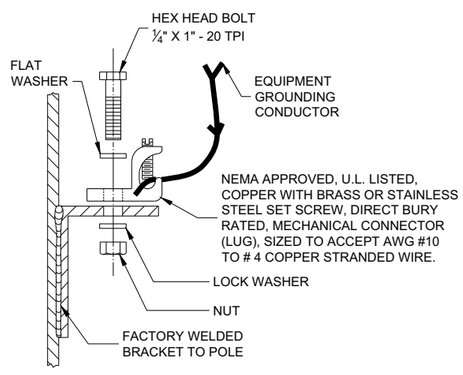


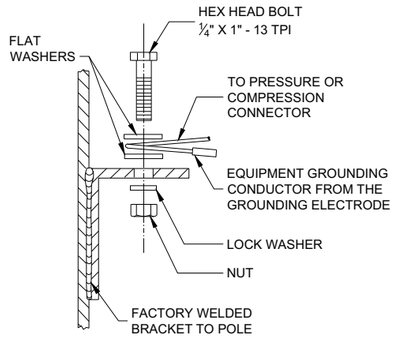
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

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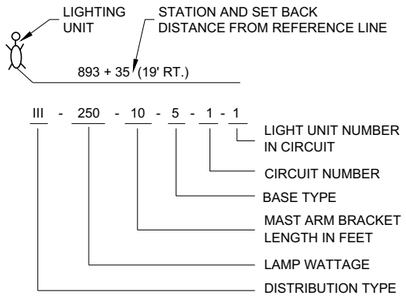
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GENERAL NOTES

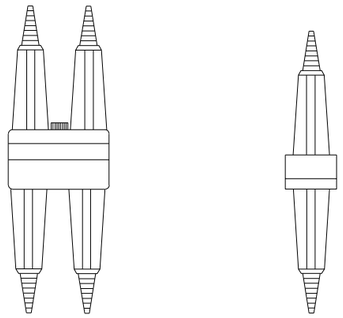
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUND CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

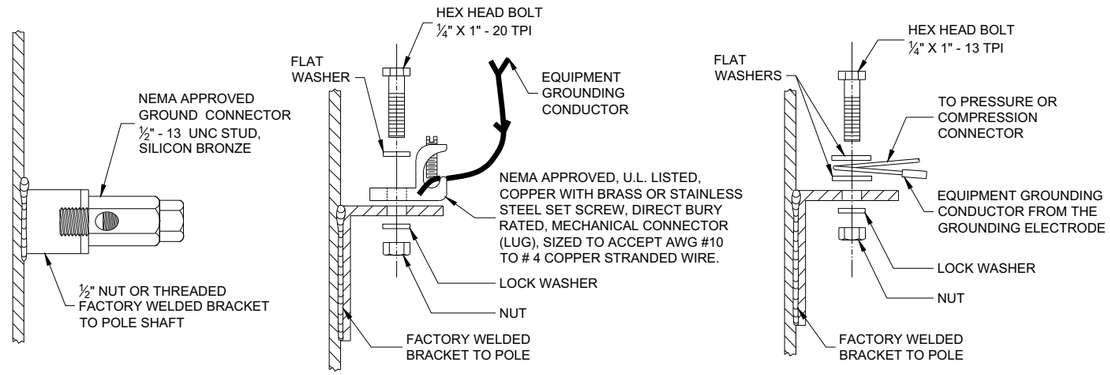


LIGHTING UNIT CODE
(TYPICAL)

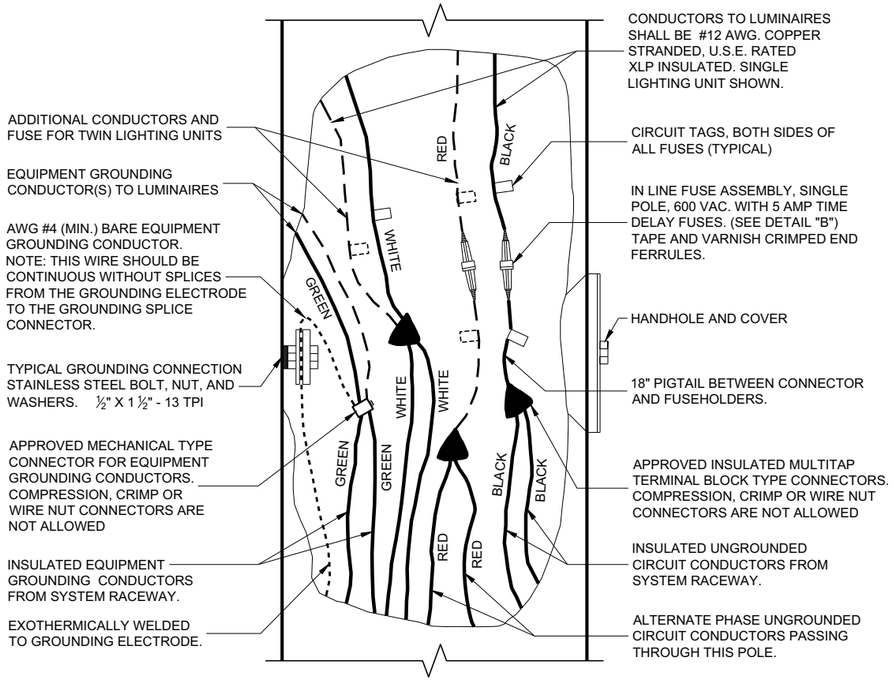


DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT

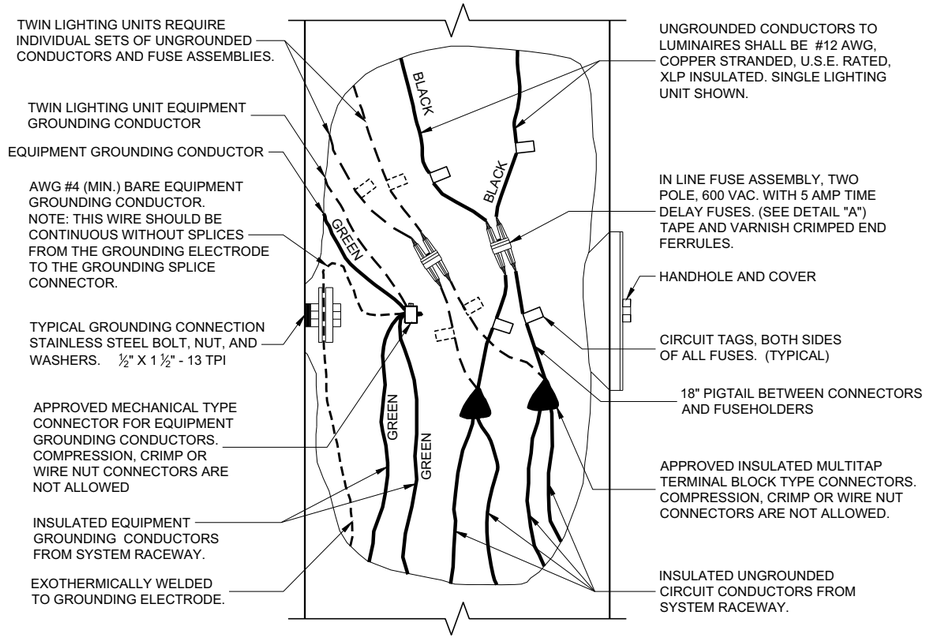
DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH GROUNDING CONDUCTOR AND EQUIPMENT GROUNDING CONDUCTOR



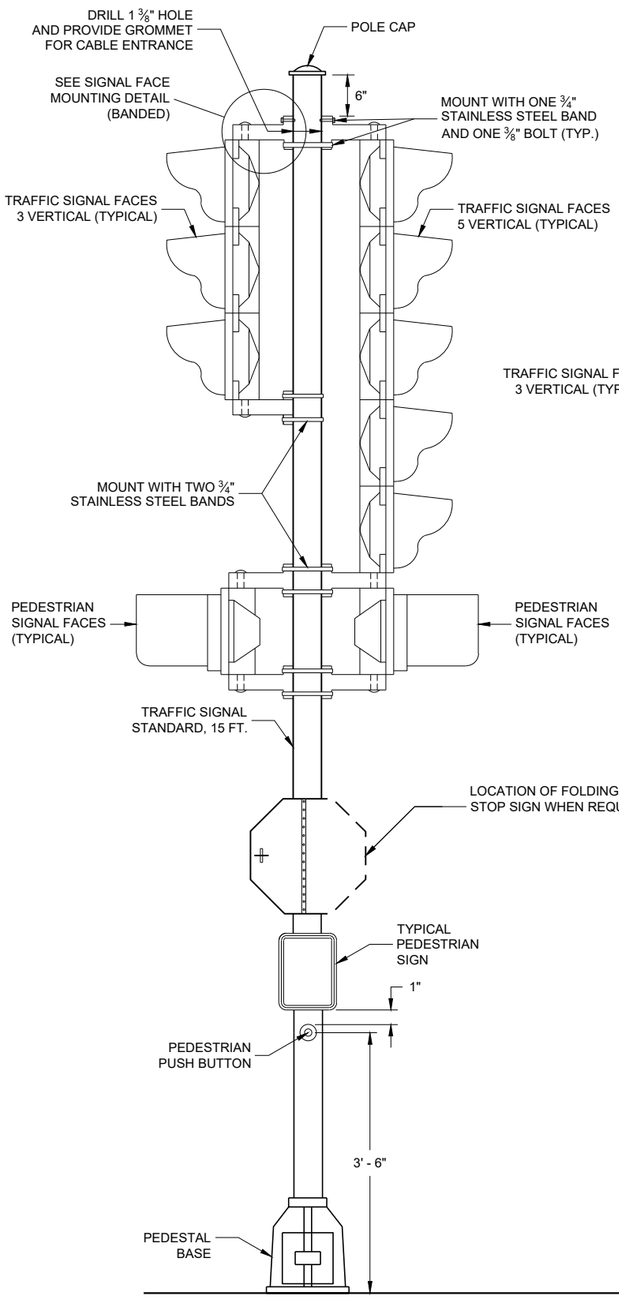
2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

NON - FREEWAY LIGHTING UNIT POLE WIRING

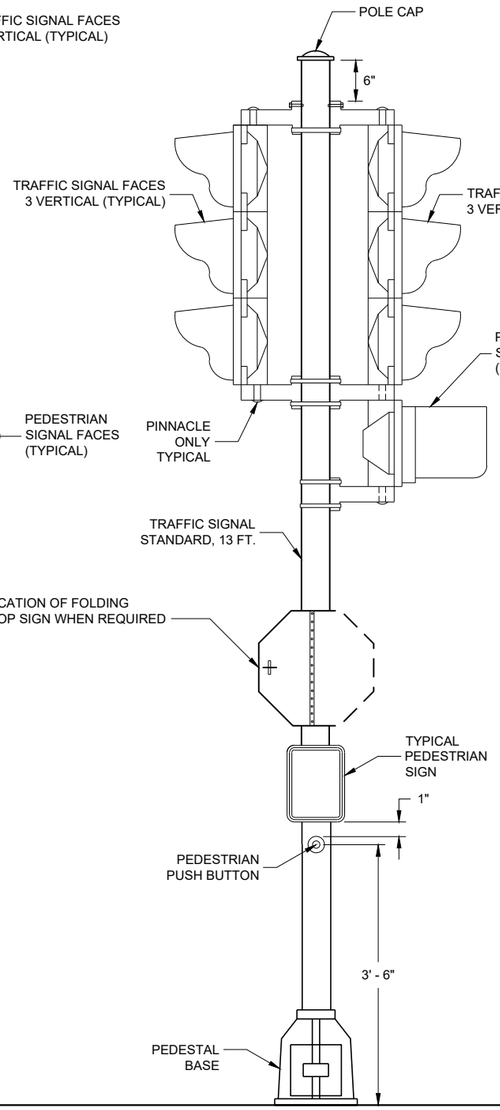
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 268

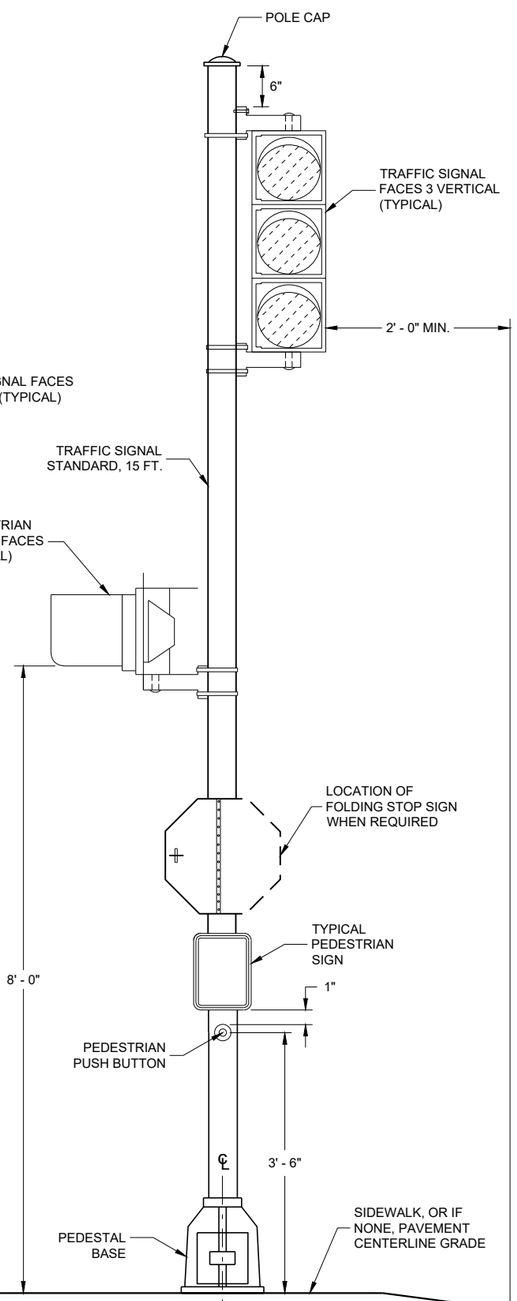
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TRAFFIC SIGNAL STANDARD - 15 FT.



TRAFFIC SIGNAL STANDARD - 13 FT.



TRAFFIC SIGNAL TANDARD - 15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

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

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

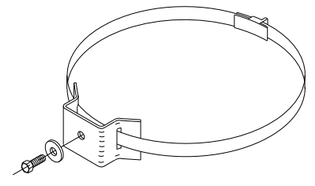
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

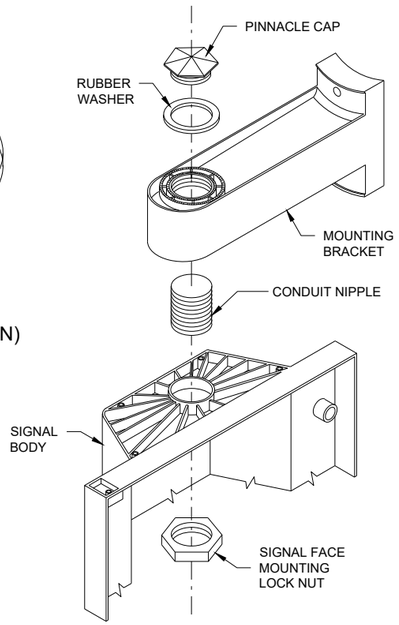
FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) 1/4" X 3/4" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



SIGNAL FACE MOUNTING DETAIL (BANDED)

TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.

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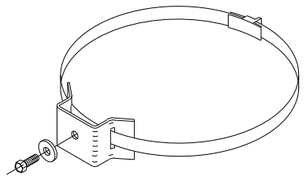
APPROVED
2/28/2013
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

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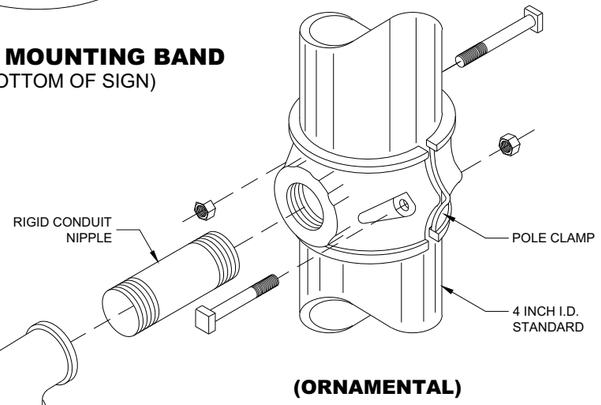
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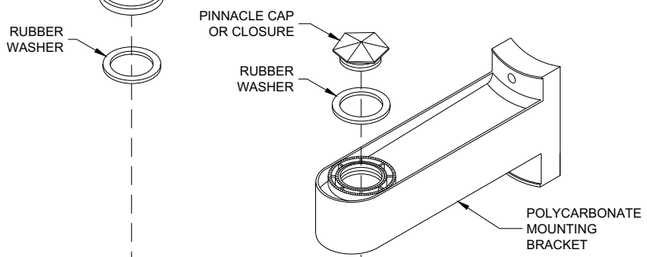
SDD 09E06 - 05



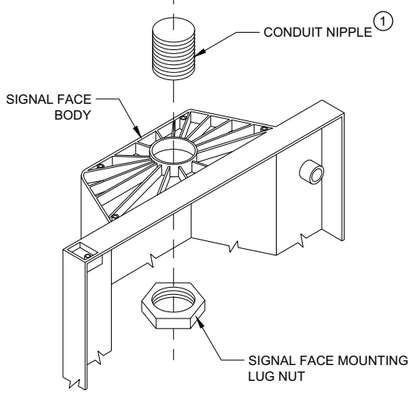
TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



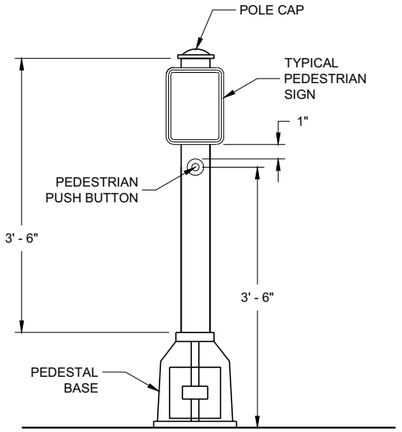
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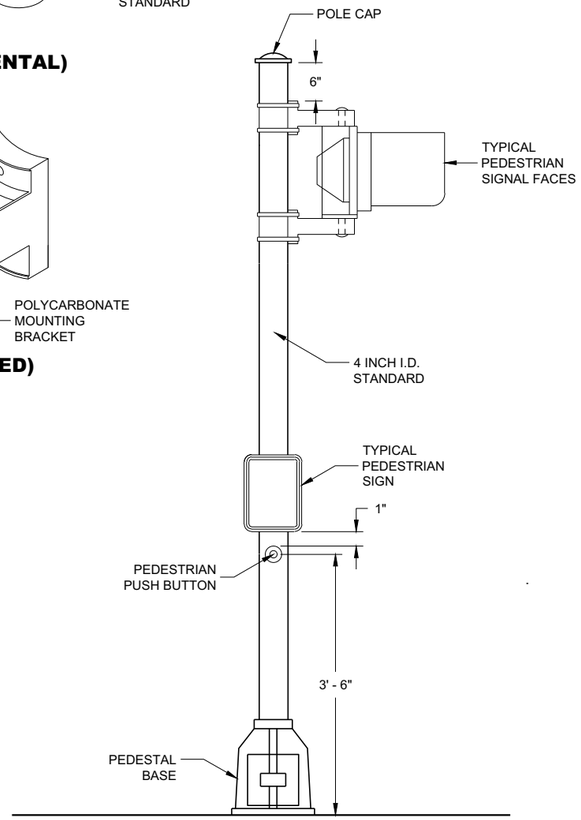
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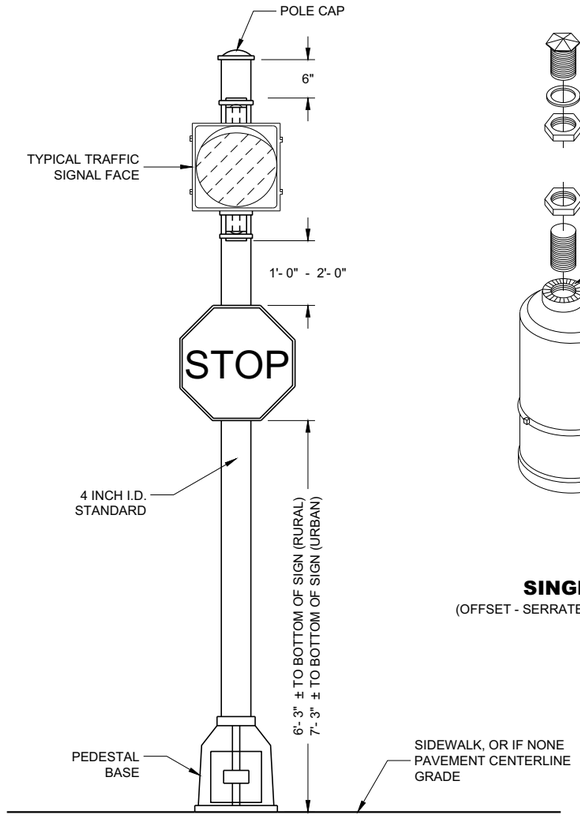
SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON TYPICAL MOUNTING



PEDESTRIAN FACE STANDARD - 10 FT.
(WALK - DON'T WALK)



STANDARD FLASHER
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED

GENERAL NOTES

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

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS, UNLESS APPROVED BY THE ENGINEER IN THE FIELD.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIFICATIONS.

POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

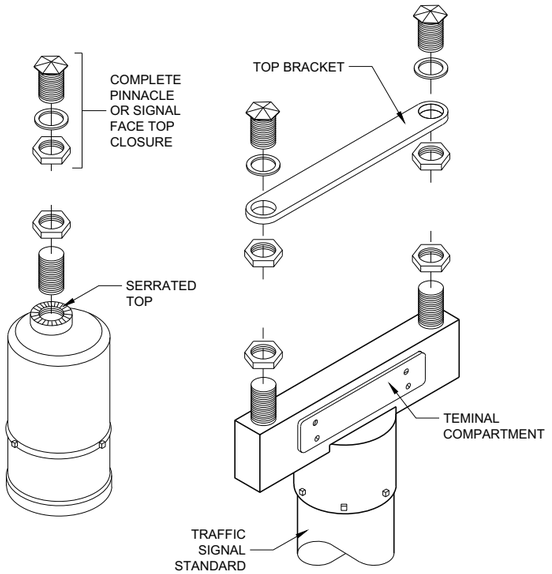
LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE REGION TRAFFIC ENGINEER).

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(1) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACESAND BRACKET ENDS.



SINGLE
(OFFSET - SERRATED MOUNTING)

DOUBLE
(SERRATED MOUNTING)

SLIPFITTERS

TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

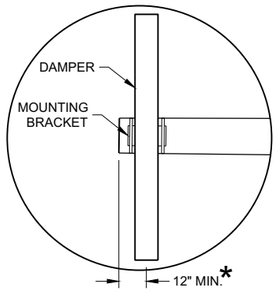
APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 270

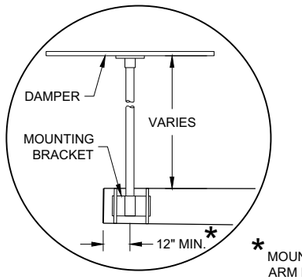
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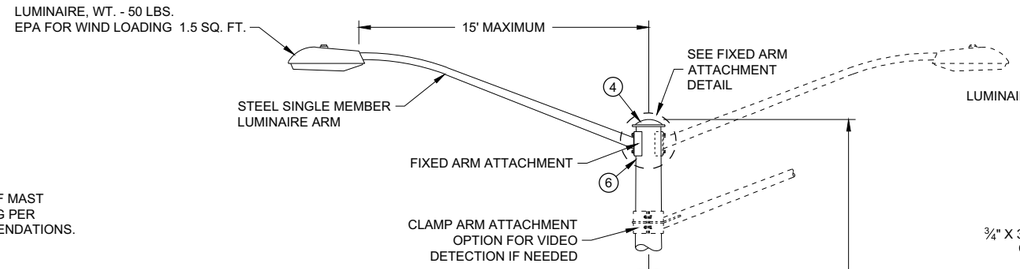


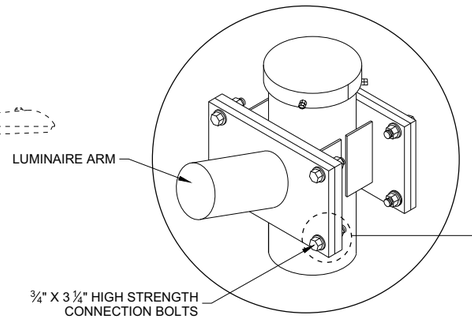
DUMBBELL VIBRATION DAMPER



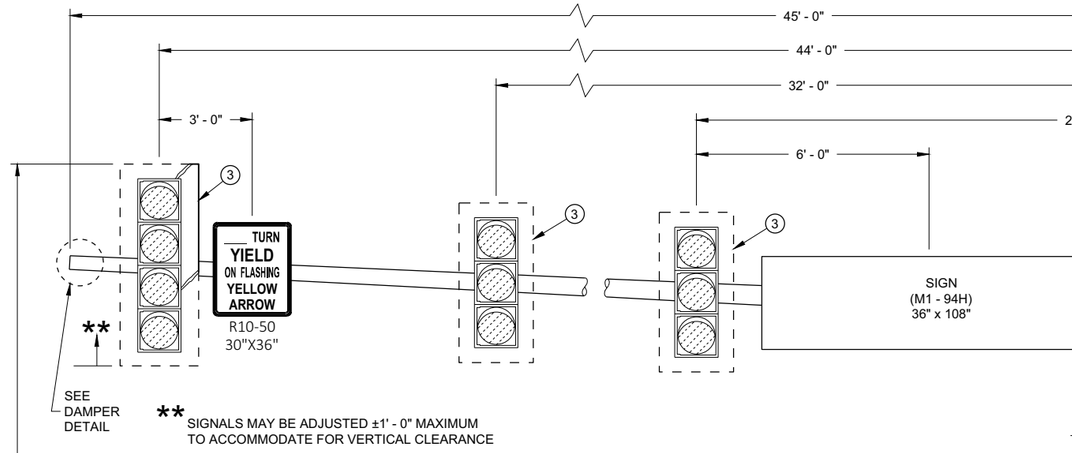
FLAT VIBRATION DAMPER

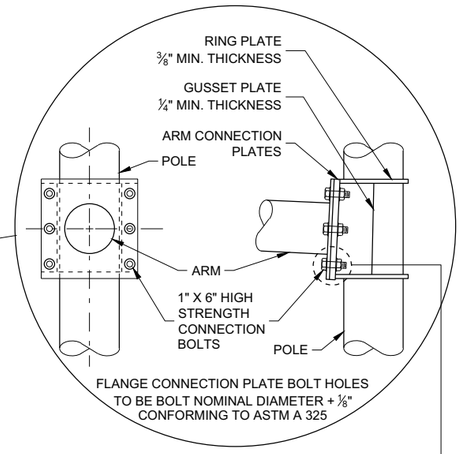
* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.



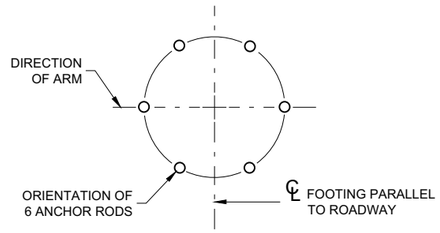


FIXED ARM ATTACHMENT DETAIL

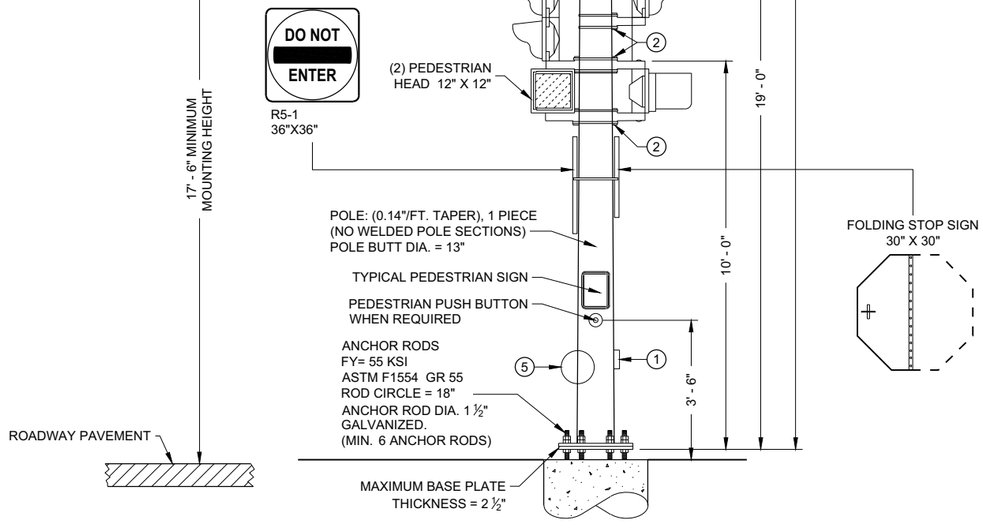


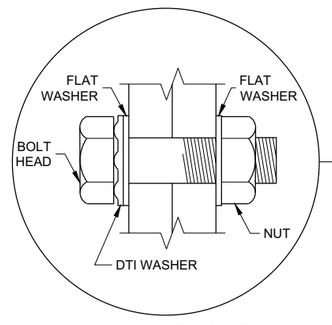


6 BOLT ARM CONNECTION DETAIL



ANCHOR ROD LOCATION





RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 10 SPECIAL POLE
45' MONOTUBE ARM
(MAXIMUM LOAD)

TYPE 10 SPECIAL POLE
45' MONTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 271

FHWA

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SDD 09E08 - 08h

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SDD 09E08 - 08h

GENERAL NOTES

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

POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15 FOOT TO 30 FOOT.

POLE TYPES 9 SPECIAL AND 10 SPECIAL ARE FOR ARM LENGTHS 35 FOOT, 40 FOOT, AND 45 FOOT.

POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35 FOOT TO 55 FOOT.

MONOTUBE POLES AND ARMS SHALL BE GALVANIZED STEEL.

RING STIFFENED BUILT UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3% ± RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATION SHALL APPLY TO THIS DRAWING.

PROVIDE WIREWAY THRU POLE WALL AND ARM CONNECTION PLATES. PROVIDE ROUND, SMOOTH INSIDE SURFACE.

MANUFACTURER'S SUBMITTED POLE DESIGNS AND DRAWINGS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED AS BEING IN COMPLIANCE WITH THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNAL 2015 1ST EDITION (INCLUDING INTERIM REVISIONS)" AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR THE LIGHTING STRUCTURES AS FOLLOWS:

CATEGORY III FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 AND TYPE 10 STRUCTURES.

CATEGORY II FATIGUE LOADS OF TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 SPECIAL AND TYPE 10 SPECIAL STRUCTURES. IN LIEU OF DESIGNING FOR GALLOPING, A VIBRATION DAMPER MITIGATION DEVICE IS REQUIRED TO BE SUPPLIED AND INSTALLED AT THE END OF THE MAST ARM.

CATEGORY II FATIGUE FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE12 AND TYPE 13 STRUCTURES.

115 MPH (700 YEAR MRI BASIC WIND SPEED).

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH ¾" STAINLESS STEEL BANDING AROUND THE LEVELING NUTS.

INDENT PRINT (NOMINAL ½" HIGH) THE POLE LENGTH AND FIRST TWO LETTERS OF THE MANUFACTURERS NAME ON TWO SIDES OF THE BASE PLATE 180 DEGREES APART, BEFORE GALVANIZING. THE ARM SHALL BE IDENTIFIED WITH THE SAME INFORMATION BY INDENT PRINT.

SIGNAL FACE SHALL BE MOUNTED 6 INCHES (NOMINAL) FROM THE END OF THE MONOTUBE ARM OR AS SHOWN ON THE PLAN CONSTRUCTION DETAIL OR A S DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL. MOUNT ALL LIKE HEAD AT SAME ELEVATION.

SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

(1) DESIGN FOR MAXIMUM ALLOWABLE HAND HOLE WITH COVER ASSEMBLY WITH TWO ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

(2) SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING (SEE SPECIFICATION SECTION 658).

(3) SECURELY MOUNT BACK PLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS.

(4) THE TOP OF THE POLE SHAFT AND THE MONOTUBE ARM SHALL BE EQUIPPED WITH A REMOVABLE, VENTILATED CAP HELD SECURELY IN PLACE WITH SET SCREWS.

(5) FACTORY WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HAND HOLD, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM). PROVIDE HOLE IN BRACKET FOR ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.

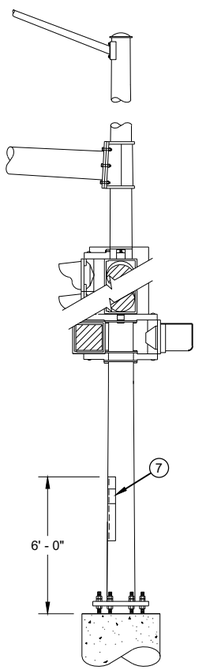
(6) FACTORY WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

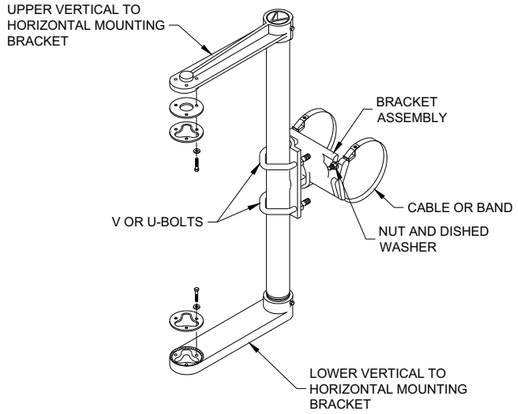
STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

MOUNTING HEIGHT SHALL BE 6' - 0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

(8) FACTORY DRILLED ½" DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE.

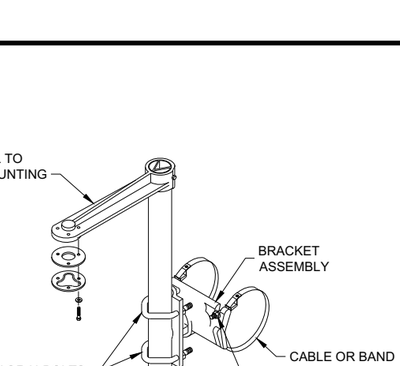


STRUCTURAL IDENTIFICATION PLAQUE PLACEMENT



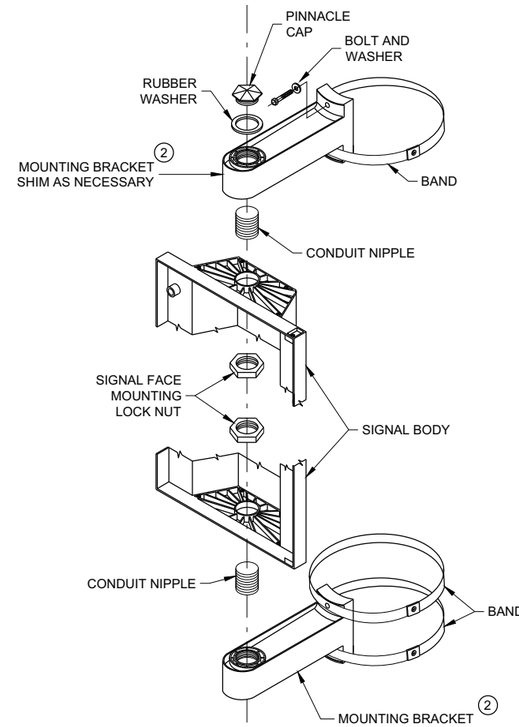
SIGNAL FACE MOUNTING BRACKET DETAIL FOR MONOTUBE ARM

(MOUNT PER MANFACTURER'S RECOMMENDATION)

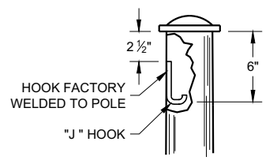


TYPICAL GROUNDING (5) CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



SIGNAL FACE VERTICAL MOUNTING DETAIL



TYPICAL "J" HOOK (6) WIRE SUPPORT

GENERAL NOTES AND HARDWARE FOR TYPES 9,10, 9/10 SPECIAL, 12 AND 13 POLES WITH MONOTUBE ARMS

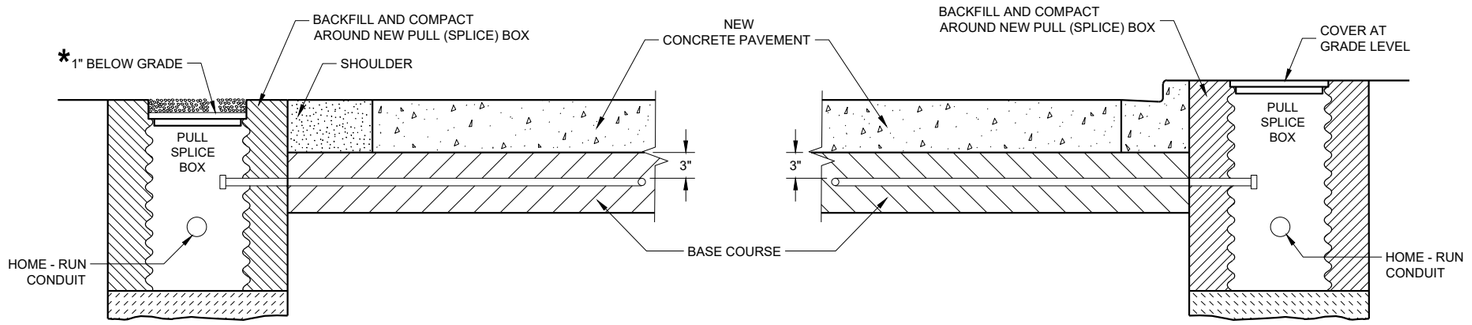
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL ENGINEER

FHWA

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SDD 09E08 - 09k



SECTION A - A
NO CURB AND GUTTER

SECTION B - B
CURB AND GUTTER

*RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

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

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READING TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

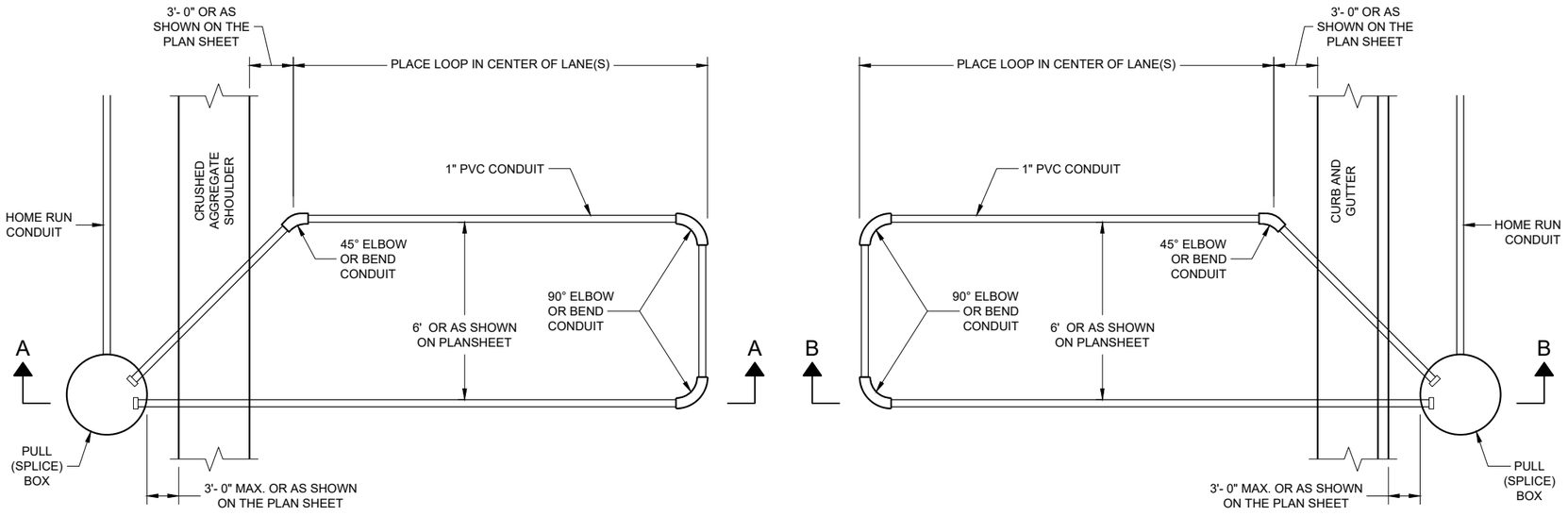
THE #12 AWG LOOP WIRE IN THE ROADSIDE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE NON-SPLICED, CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN LOOP DETECTOR WITH 18" OR 24" PULL (SPLICE) BOX

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
September 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

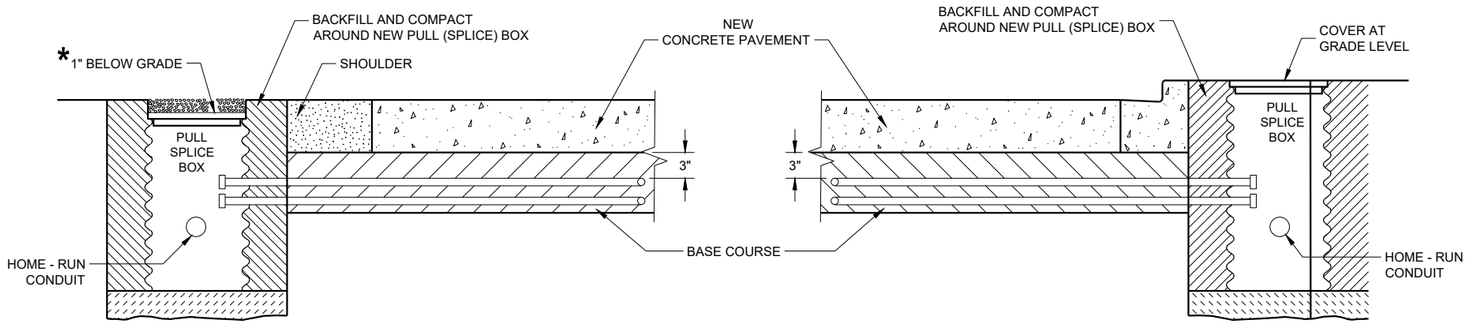
FHWA

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SDD 09F15 - 04a

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SDD 09F15 - 04a



SECTION A - A
NO CURB AND GUTTER

SECTION B - B
CURB AND GUTTER

* RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

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

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READING TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

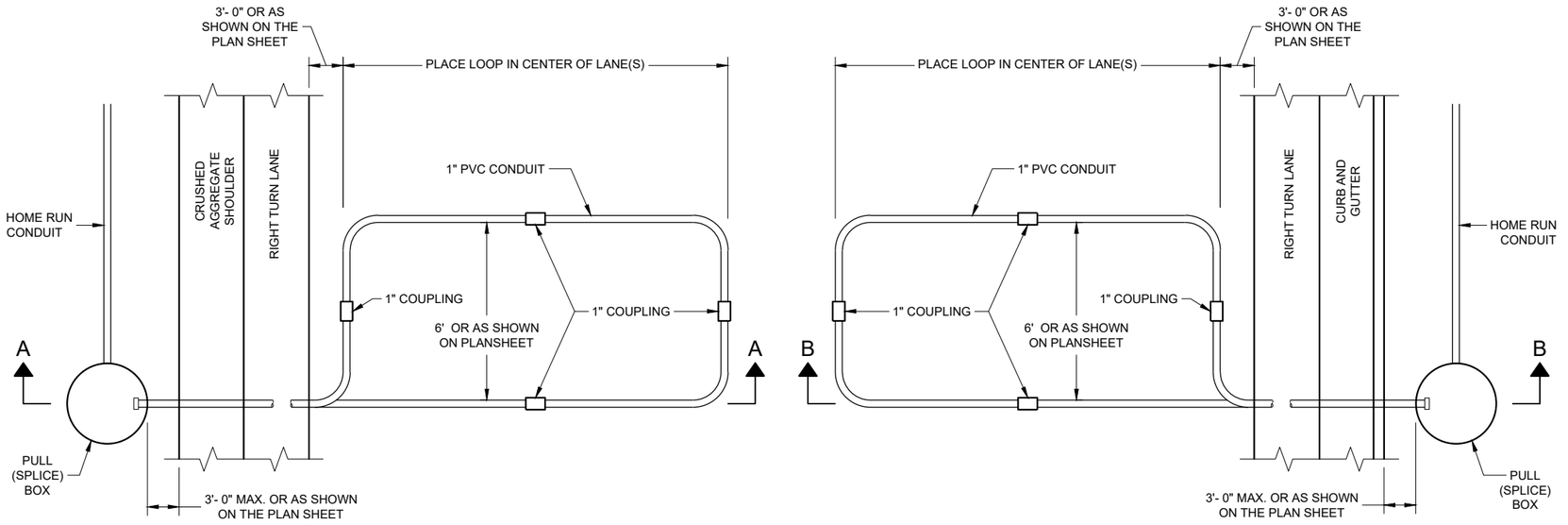
THE #12 AWG LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

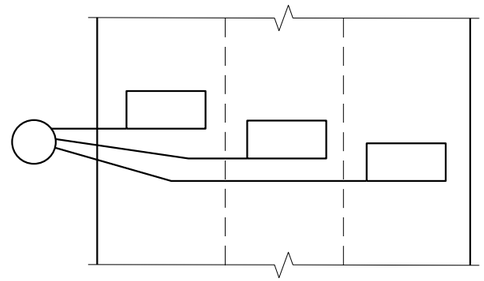
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE NON-SPLICED, CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN LOOP DETECTOR
WITH 24" PULL (SPLICE) BOX



MULTI-LANE
INSTALLATION

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
September 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

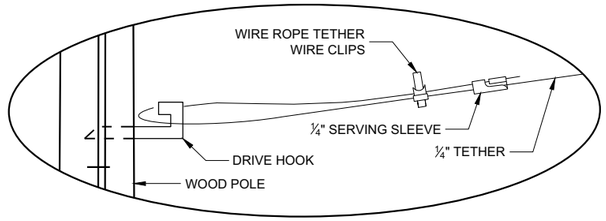
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SDD 09F15 - 04b

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SDD 09F15 - 04b

MINIMUM POLE LENGTHS	POLE BURIAL DEPTHS
25'	5'
30'	6'
35'	7'
40'	8'
45'	9'

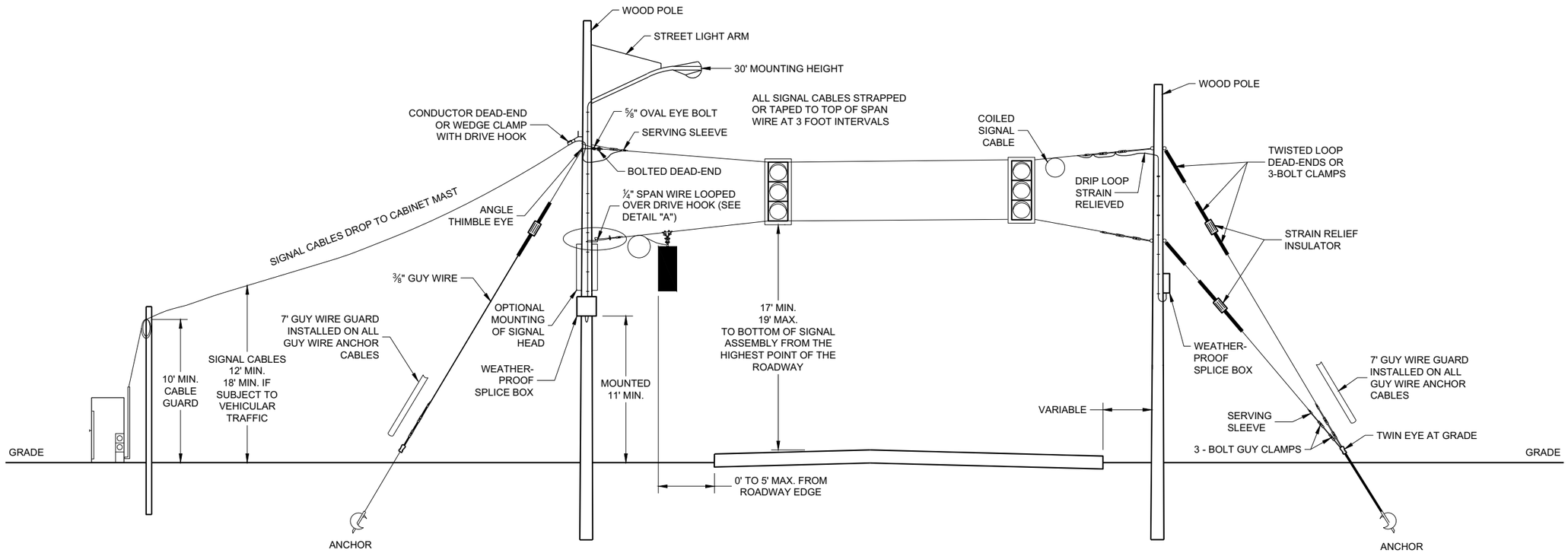


DETAIL "A"

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 ASSEMBLY 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

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015 — DATE
/S/ Ahmet Demerbilek — STATE ELECTRICAL ENGI
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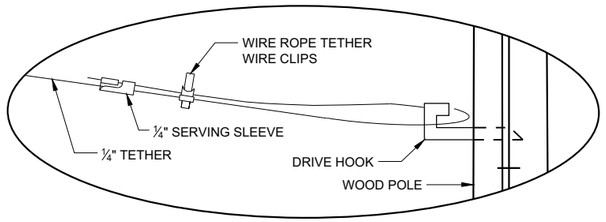
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MINIMUM POLE LENGTHS	CLASS	POLE BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

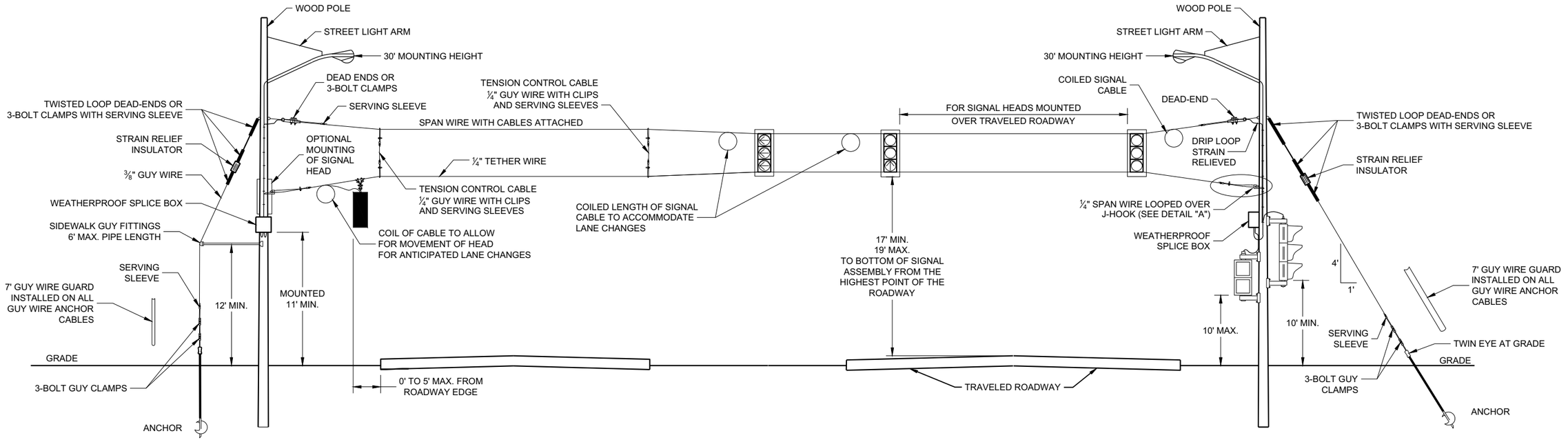


DETAIL "A"

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   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.
   C. THE SIGNAL ASSEMBLY 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
4 LANE ROADWAYS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

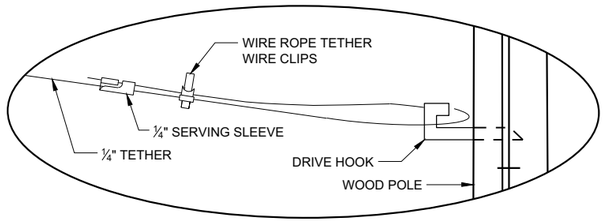
APPROVED
June 2015
DATE
/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI

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SDD09G01 - 04b

MINIMUM POLE LENGTHS	CLASS	POLE BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

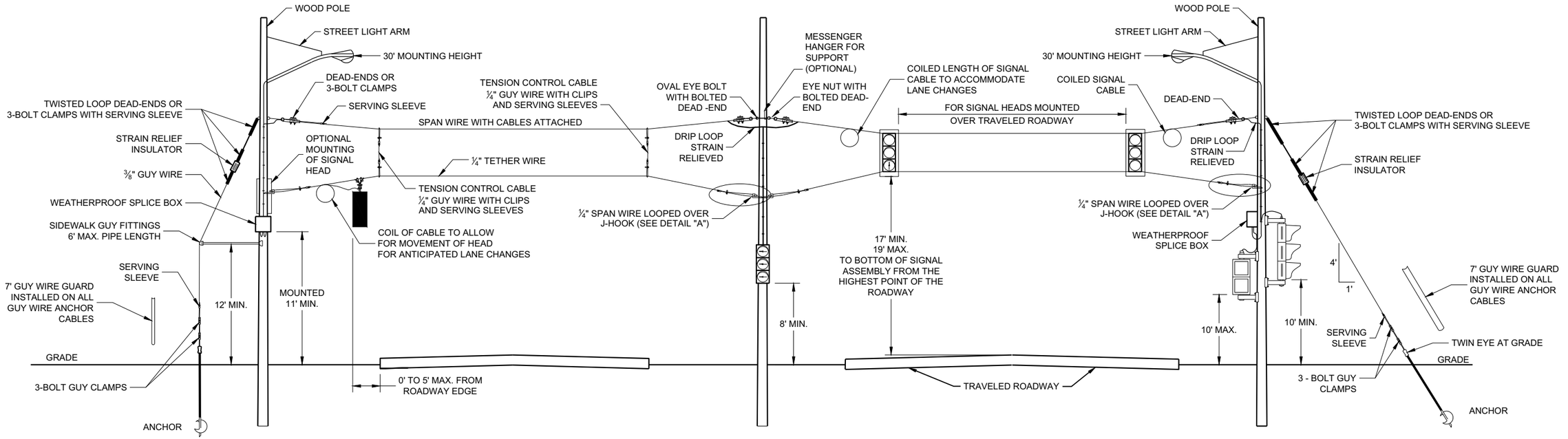


DETAIL "A"

GENERAL NOTES

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SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015
DATE

/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI

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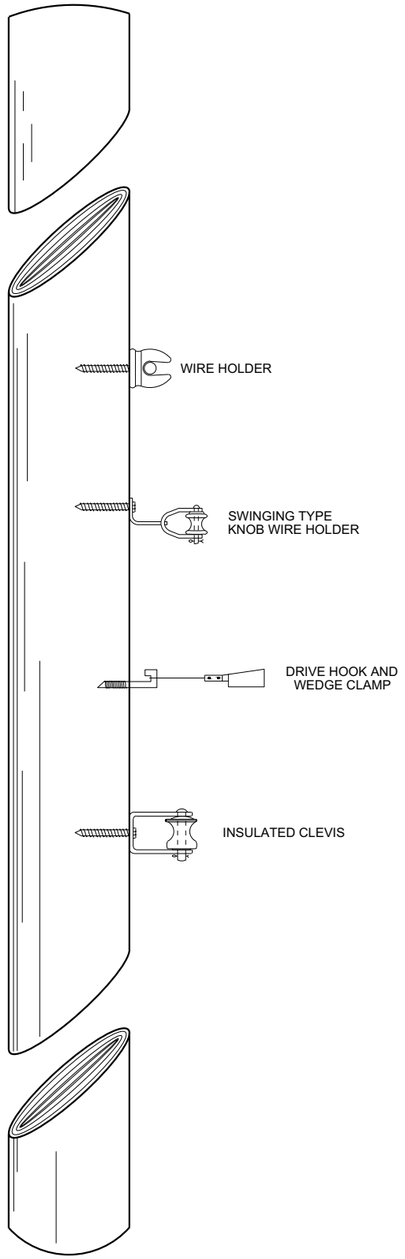
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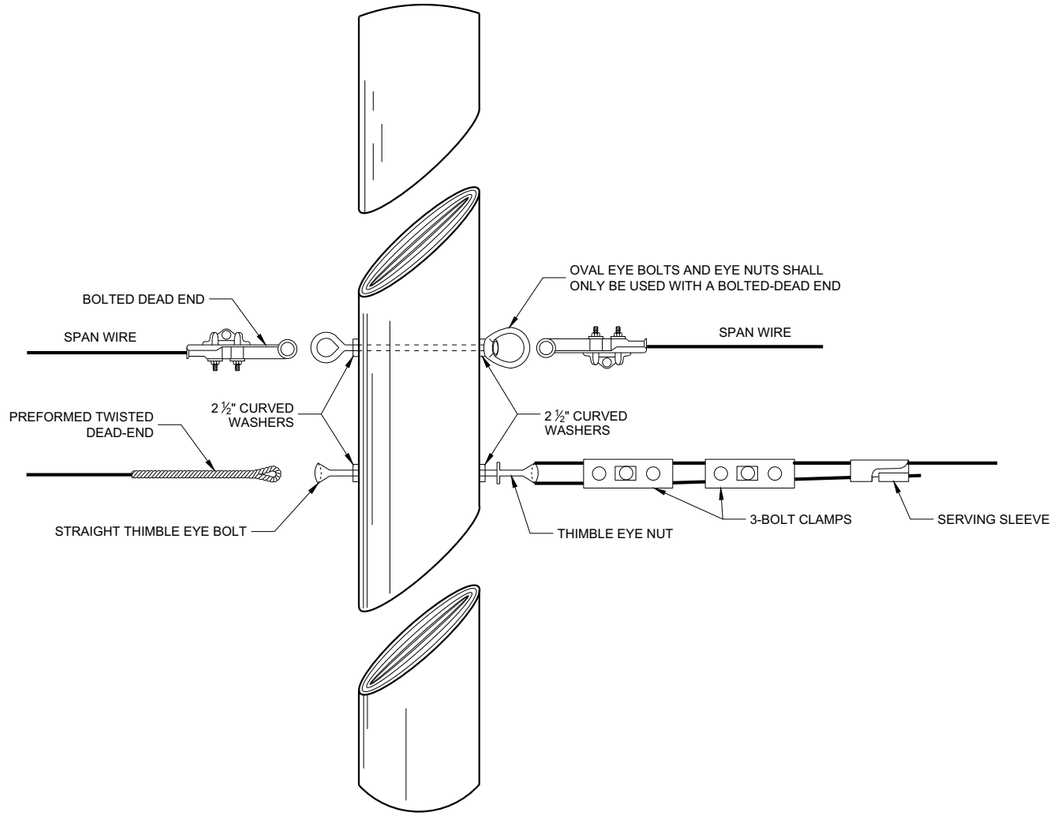
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SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

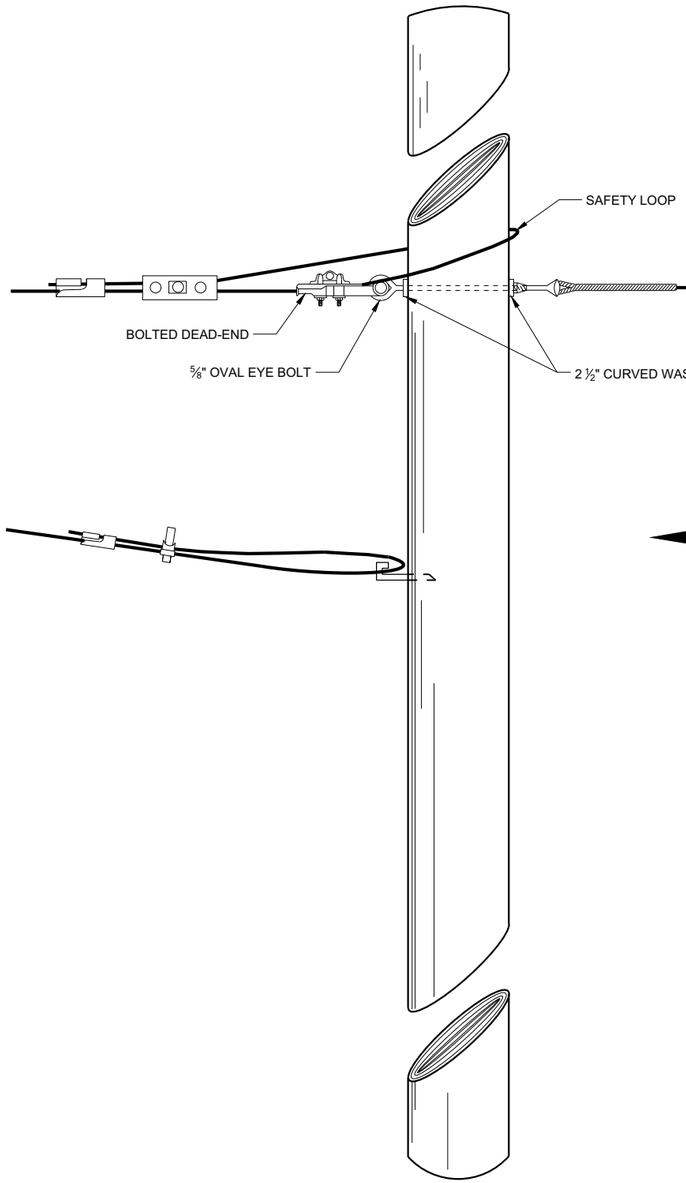
June 2015
DATE

/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVE ENGINEER

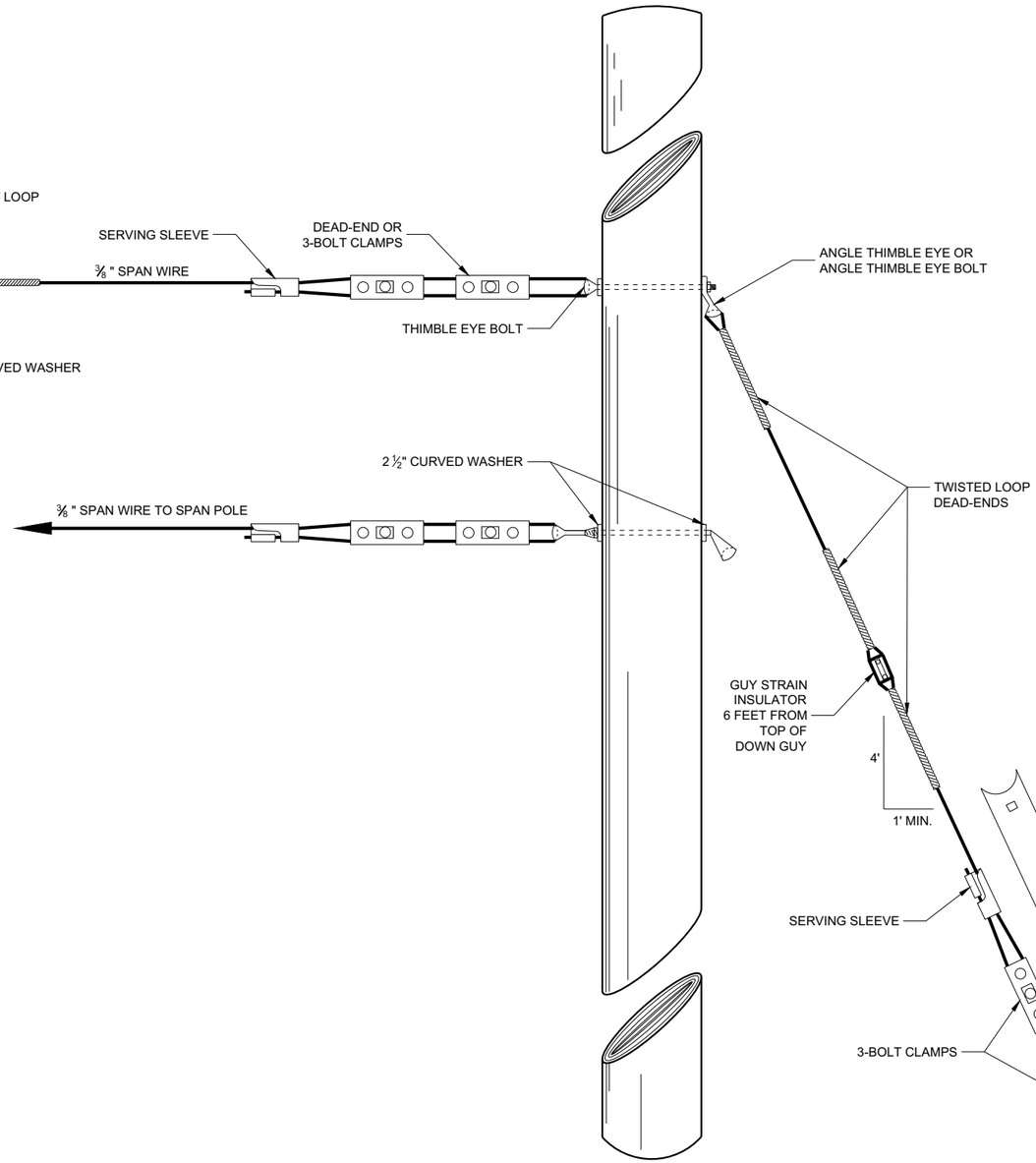
FHWA

GENERAL NOTES

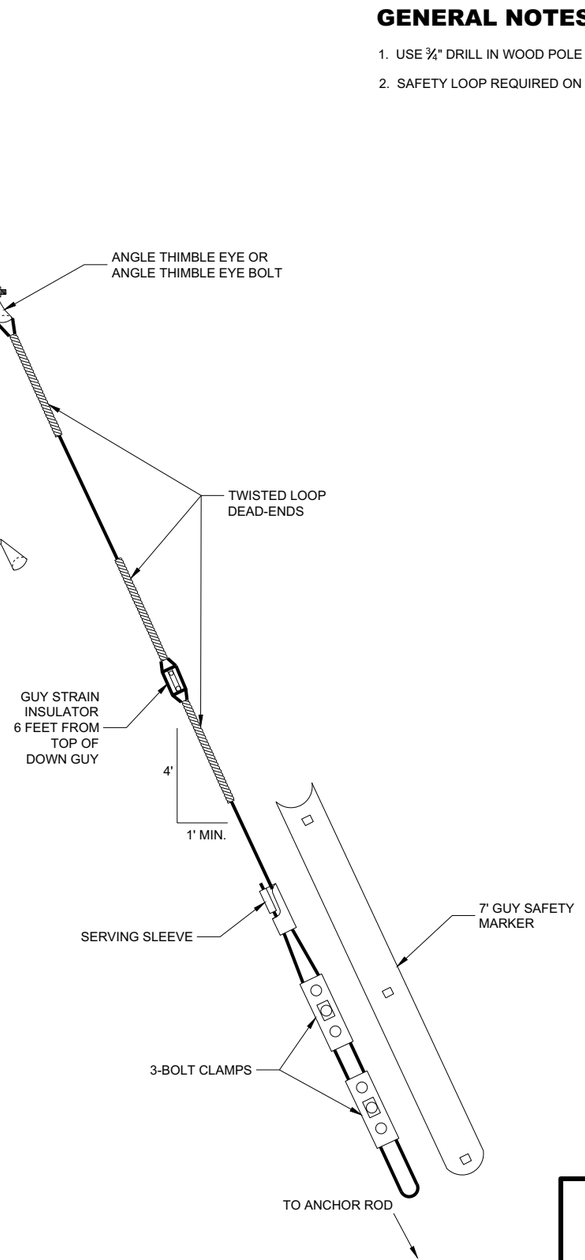
1. USE ¾" DRILL IN WOOD POLE TO PROVIDE FOR ⅝" BOLTS.
2. SAFETY LOOP REQUIRED ON EACH END OF ALL SPAN WIRES.



SPAN WIRE POLE



GUY POLE



TYPICAL DEAD-ENDINGS OR GUYING

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

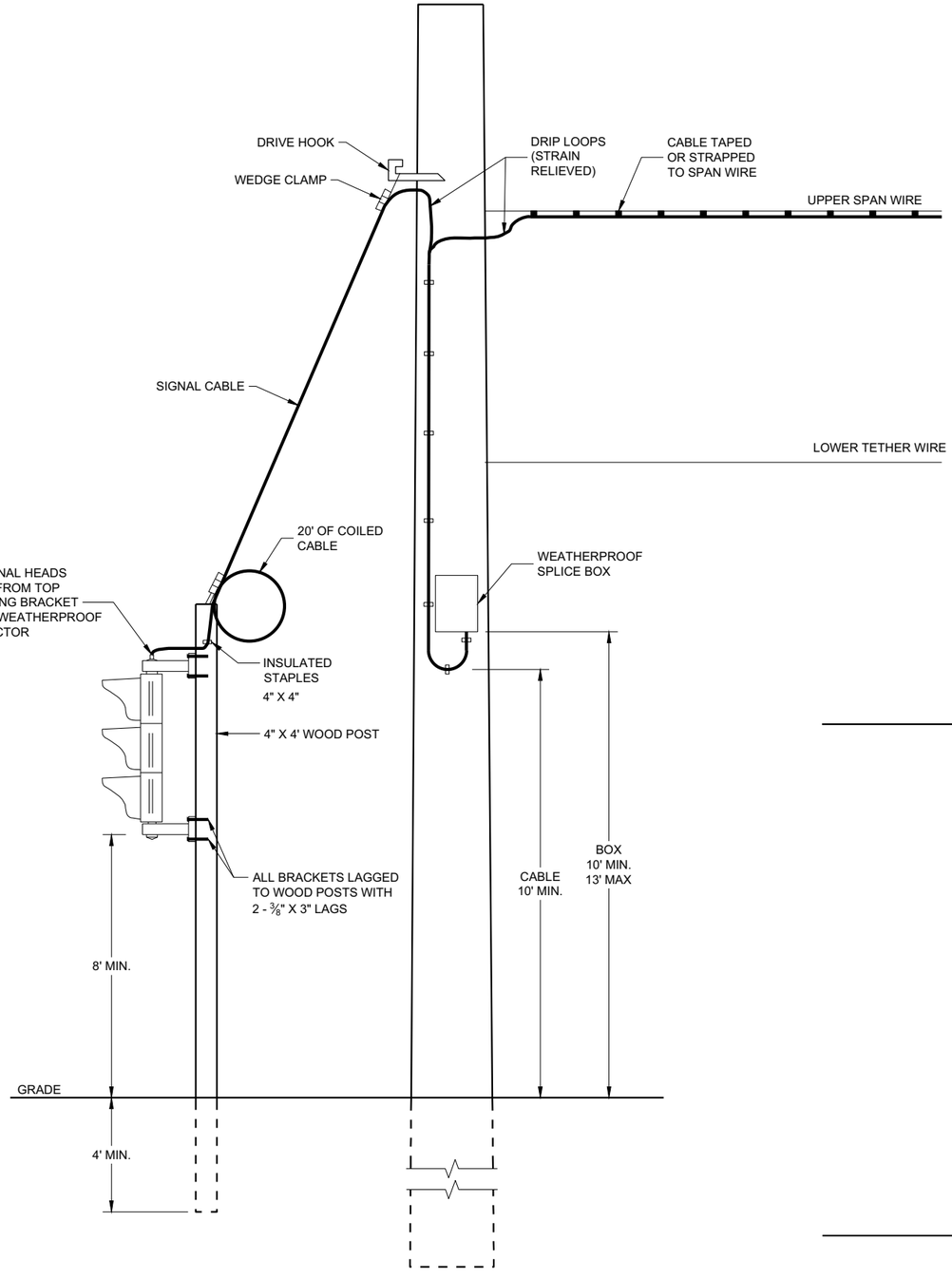
APPROVED
June 2015 — DATE
/S/ Ahmet Demerbilek — ROADWAY STANDARDS DEVE ENGINEER
FHWA

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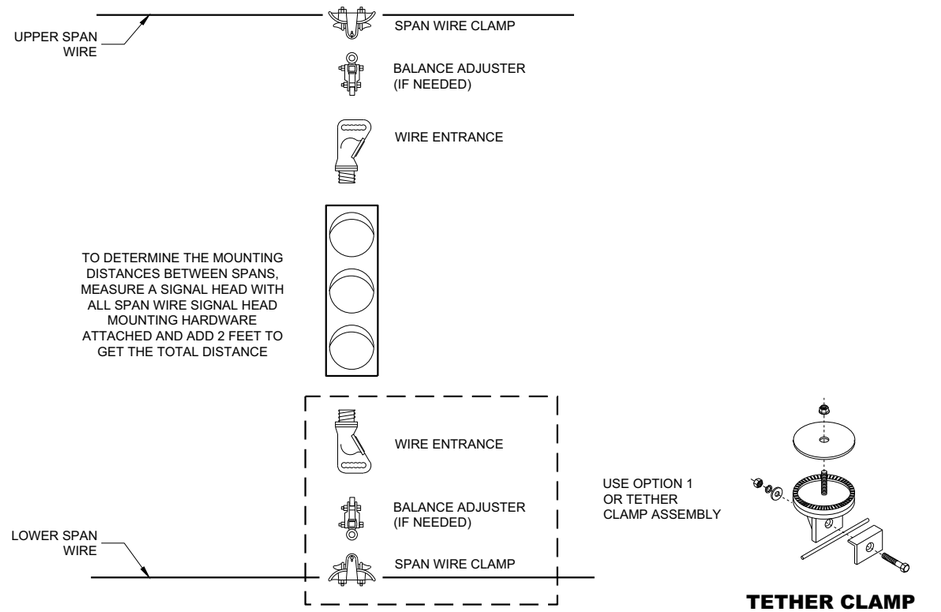
SDD 09G01 - 4e

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SDD 09G01 - 4e



TYPICAL DROP TO TEMPORARY MOVEABLE SIGNAL

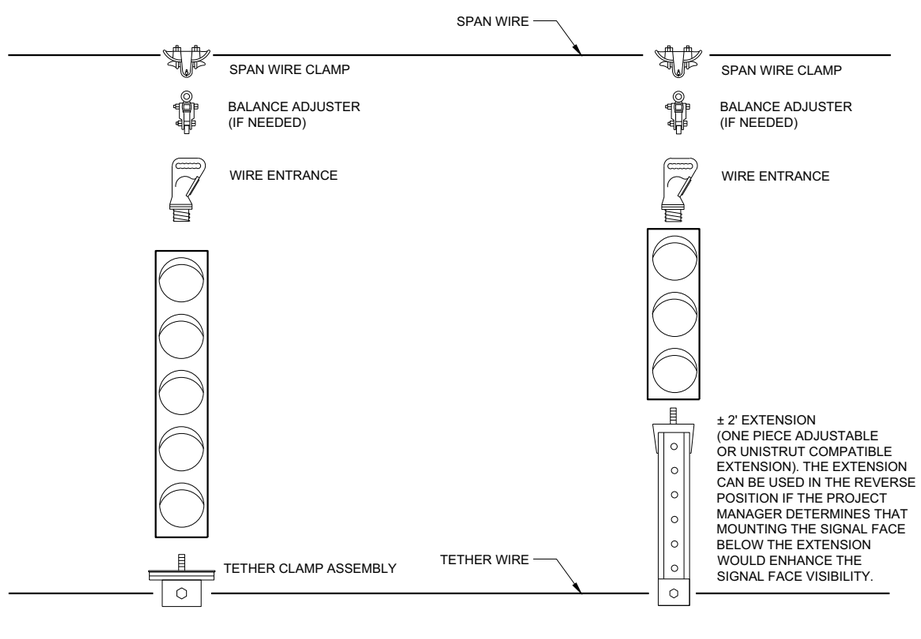


OPTION 1

USE OPTION 1 OR TETHER CLAMP ASSEMBLY

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

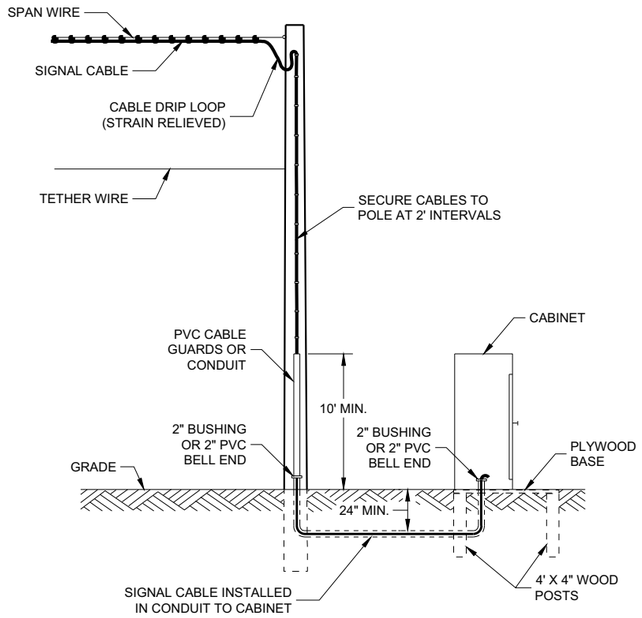
/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVE ENGINEER

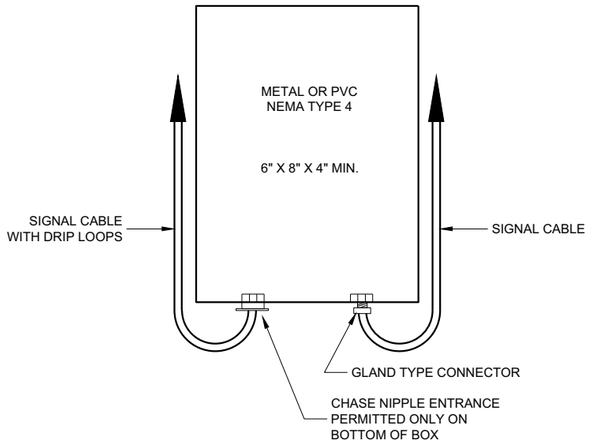
FHWA

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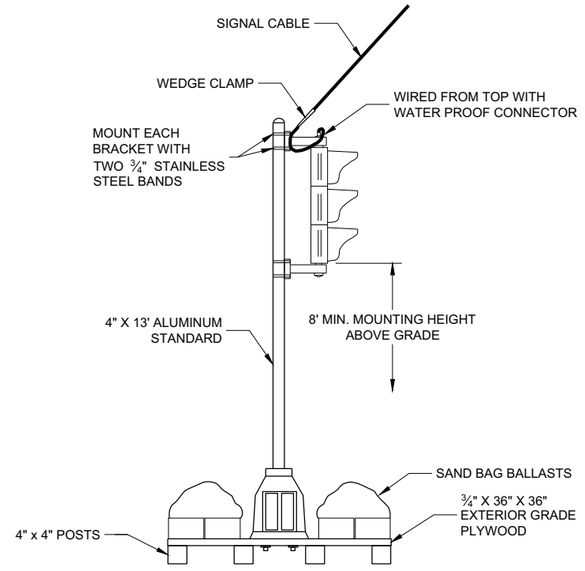
SDD 09G01 - 4f

SDD 09G01 - 4f

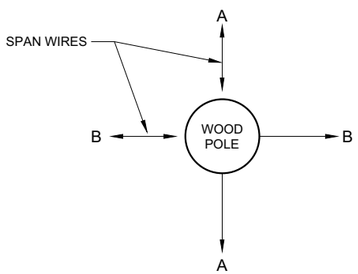




SPLICE BOX

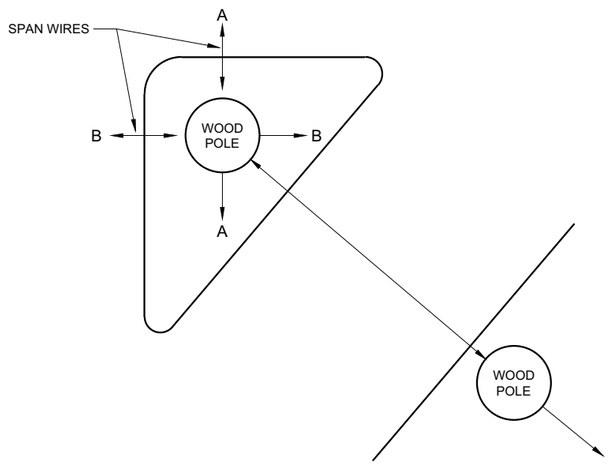


TYPICAL SKID TYPE TEMPORARY

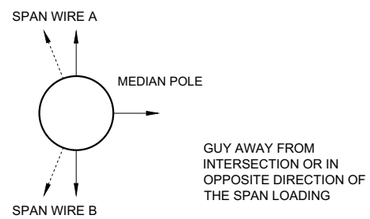


ALL DOWN OR SIDEWALK GUYS
SHALL BE INSTALLED IN THE
OPOSITE DIRECTION OF THE
STRAIN OF THE SPAN WIRE

CORNER POLES



ISLAND POLES



GUY AWAY FROM
INTERSECTION OR IN
OPPOSITE DIRECTION OF
THE SPAN LOADING

MEDIAN POLES

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

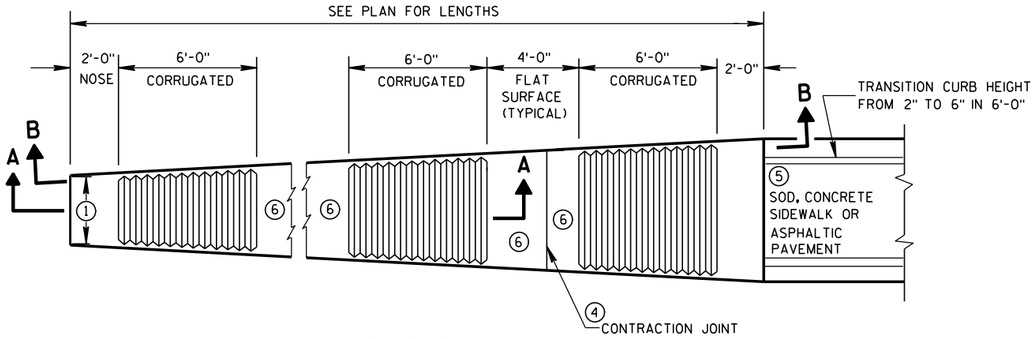
APPROVED
June 2015
DATE

/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVE
ENGINEER

FHWA

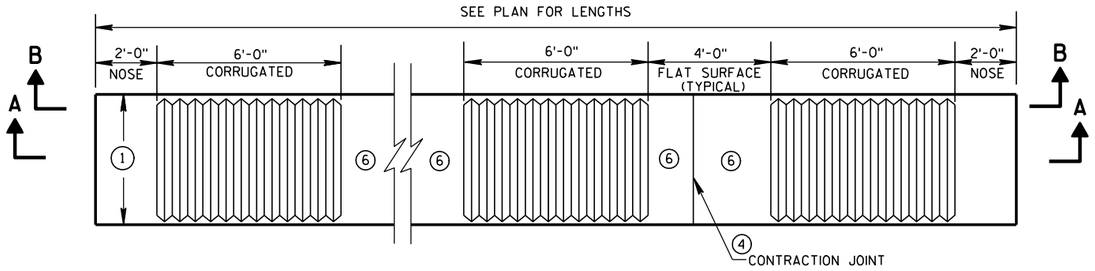
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SDD 09G01 - 4g



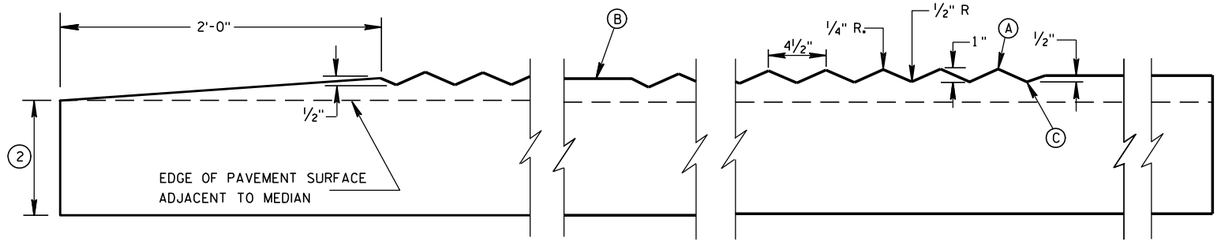
PLAN VIEW

VARIABLE WIDTH CONCRETE CORRUGATED MEDIAN



PLAN VIEW

UNIFORM WIDTH CONCRETE CORRUGATED MEDIAN



SECTION A-A

LONGITUDINAL SECTION

GENERAL NOTES

(1) SEE PLANS FOR CONSTANT OR VARIABLE WIDTH.

(2) THE DEPTH OF THE CONCRETE CORRUGATED MEDIAN SHALL BE 9-INCHES UNLESS SHOWN OTHERWISE IN THE PLAN.

ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN IN THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

(2) ASPHALTIC CONCRETE OVER NEW OR EXISTING CONCRETE BASE COURSE, OR PAVEMENT.

(3) ASPHALTIC PAVEMENT OVER BASE AGGREGATE DENSE.

(3) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

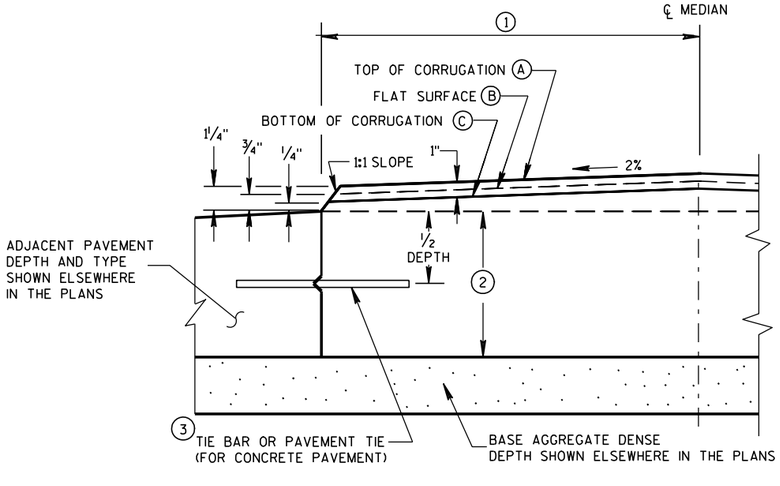
INSTALL TIE BARS TO MAINTAIN A MINIMUM OF 3-INCHES OF COVER BETWEEN THE TIE BAR AND THE CONCRETE SURFACE (BOTTOM AND TOP).

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE PAVEMENT OR CONCRETE BASE COURSE, PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(4) CONCRETE CORRUGATED MEDIAN CONTRACTION JOINTS SHALL BE CONSTRUCTED TO MATCH THE JOINTS IN ADJACENT CONCRETE PAVEMENT. WHERE ADJACENT PAVEMENT IS ASPHALT WITH BASE AGGREGATE DENSE. TRANSVERSE CONTRACTION JOINTS SHALL BE PROVIDED AT 20 FOOT INTERVALS.

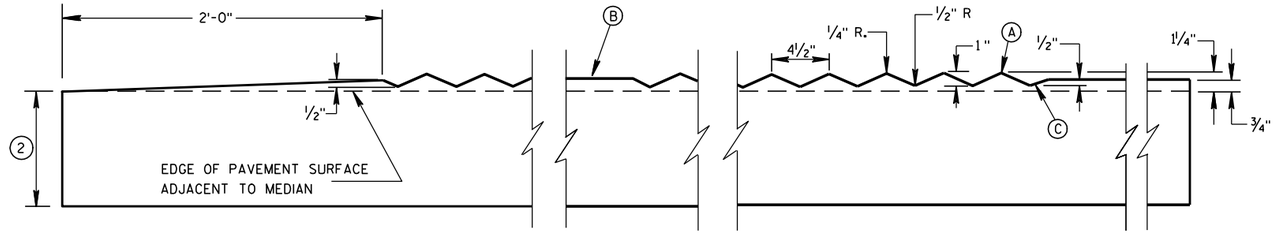
(5) SURFACE TYPE AND DETAILS ARE DEFINED ELSEWHERE IN THE PLAN.

(6) YELLOW MARKING ON FLAT SURFACE WHEN MEDIAN SEPARATES OPPOSING TRAFFIC.



HALF CROSS SECTION

(2) CONCRETE CORRUGATED MEDIAN AND ADJACENT PAVEMENT



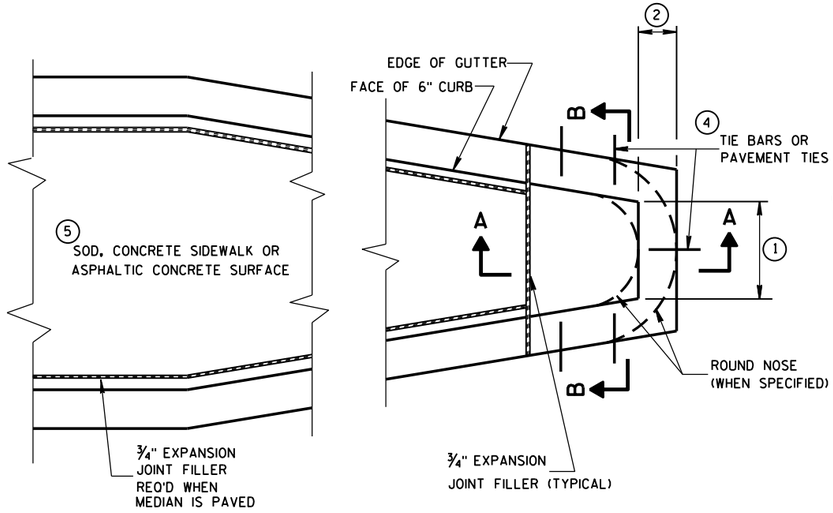
SECTION B-B

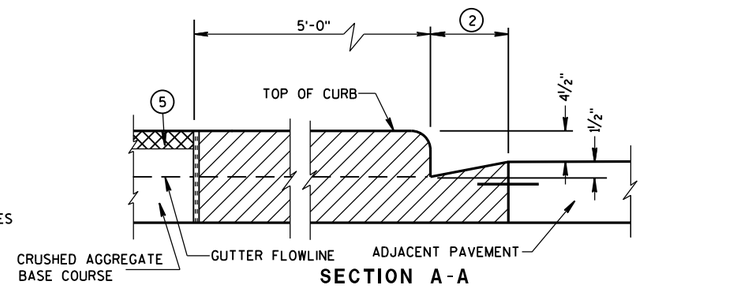
LONGITUDINAL SECTION

CONCRETE CORRUGATED MEDIAN	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
12/17/07 DATE	/S/ Jerry H. Zogg ROADWAY STANDARDS ENGINEER
FHWA	

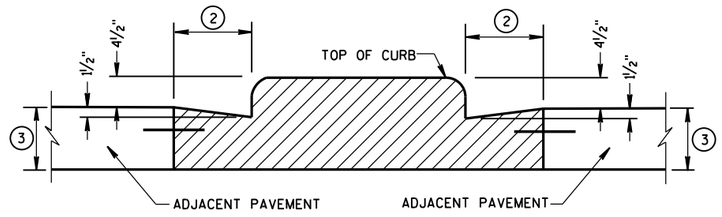
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SECTION A-A



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.

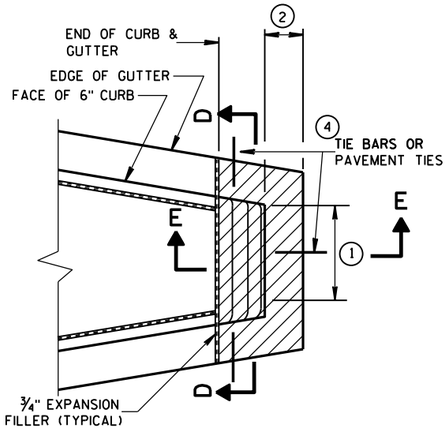
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

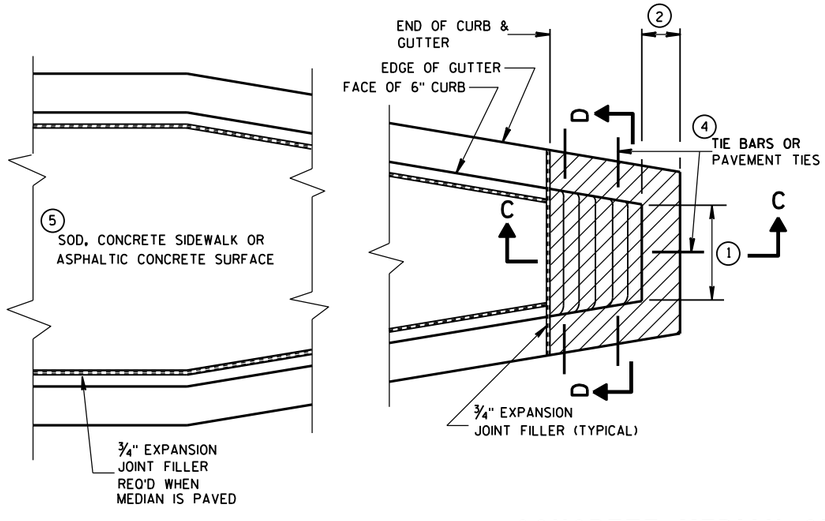
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

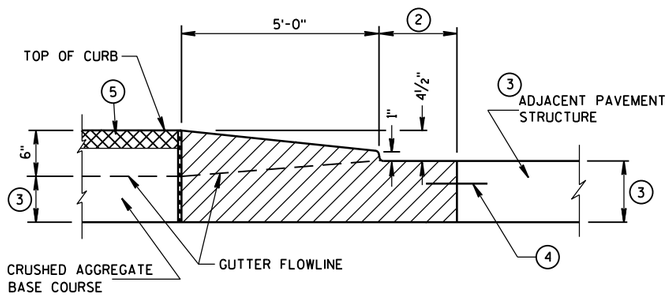
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

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.

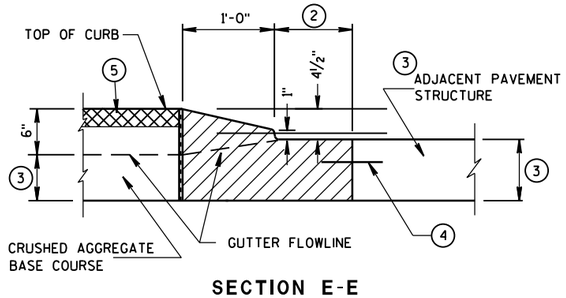
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.







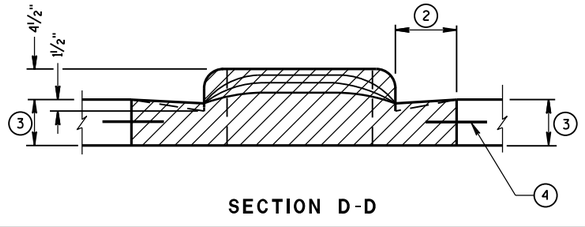
SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2

CONCRETE MEDIAN SLOPED NOSE TYPE 1



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/8/2006
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER

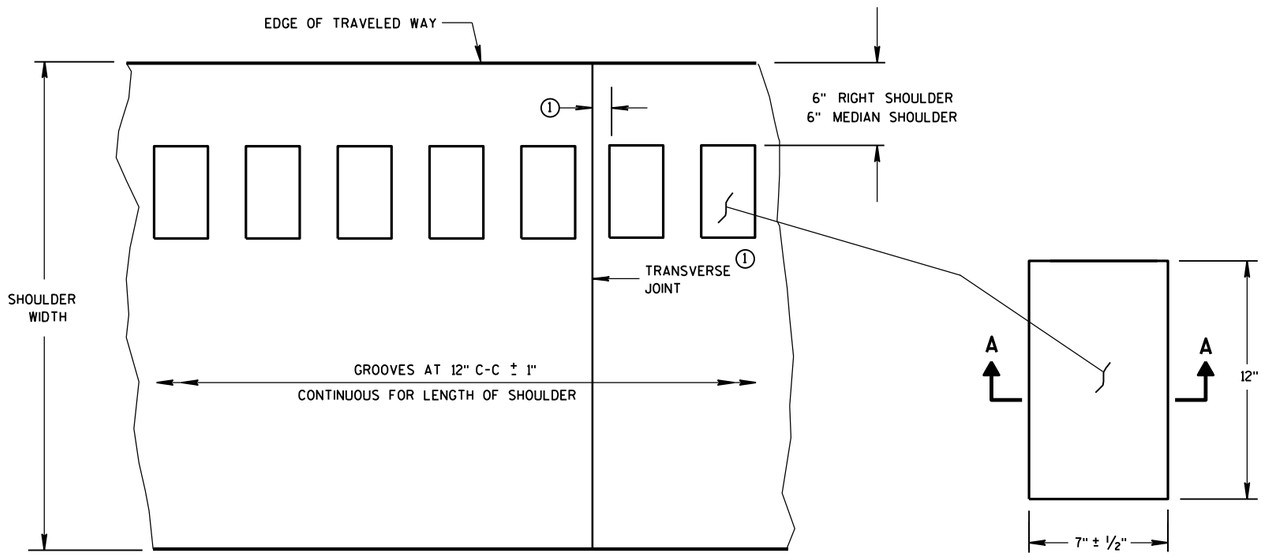
FHWA

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S.D.D. 11 B 2-2

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S.D.D. 11 B 2-2



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

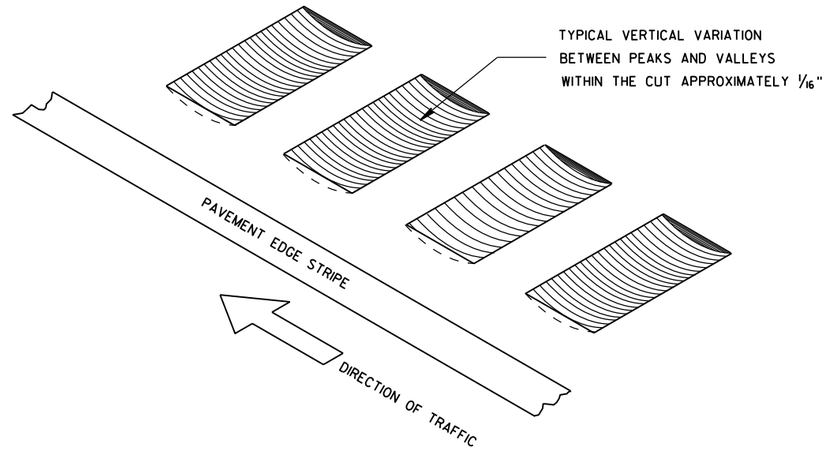
GENERAL NOTES

DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

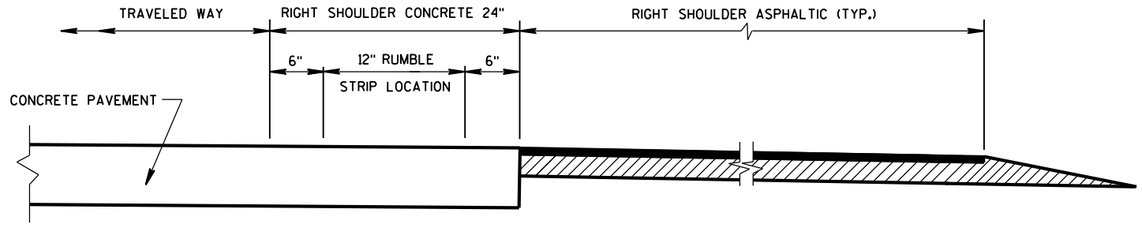
RUMBLE STRIPS ON EXPRESSWAYS

DO NOT INSTALL RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIAL DRIVEWAYS, PRIVATE DRIVEWAYS OR ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, BRIDGE DECKS, BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSING. THE ATTACHED STANDARD DETAIL DRAWING SHOWS THE LOCATION OF THE RUMBLE STRIPS AT INTERCHANGE AREAS.

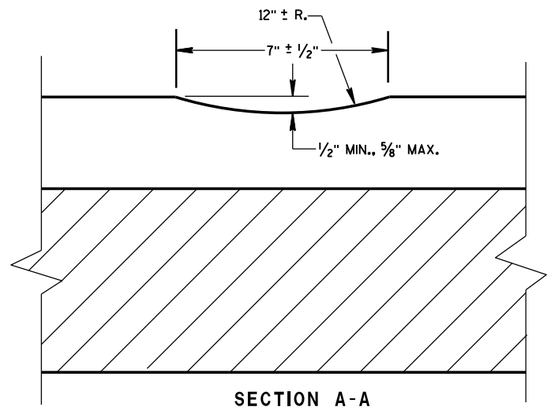
(1) CONCRETE PAVEMENT - RUMBLE STRIPS SHALL BE A MINIMUM OF 6" AWAY FROM TRANSVERSE JOINTS.



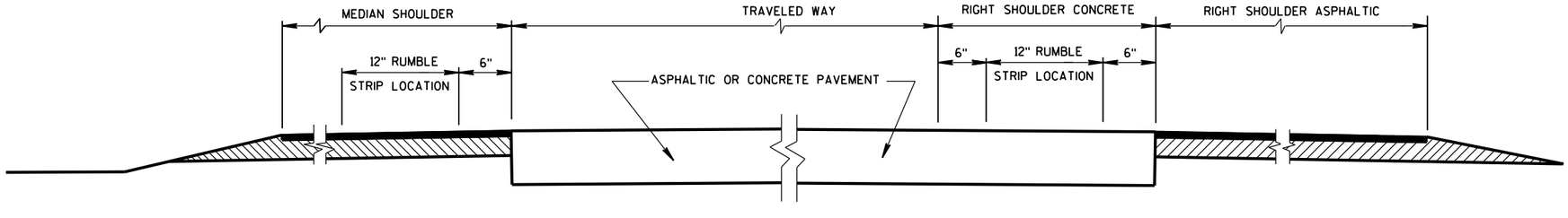
ISOMETRIC



SECTION VIEW
CONCRETE PAVEMENT EXTENDS INTO RIGHT SHOULDER)



SECTION A-A



SECTION VIEW

TYPICAL LOCATIONS OF SHOULDER RUMBLE STRIPS IN RURAL DIVIDED HIGHWAYS

(ONE ROADWAY IS SHOWN)

SHOULDER RUMBLE STRIP, MILLING

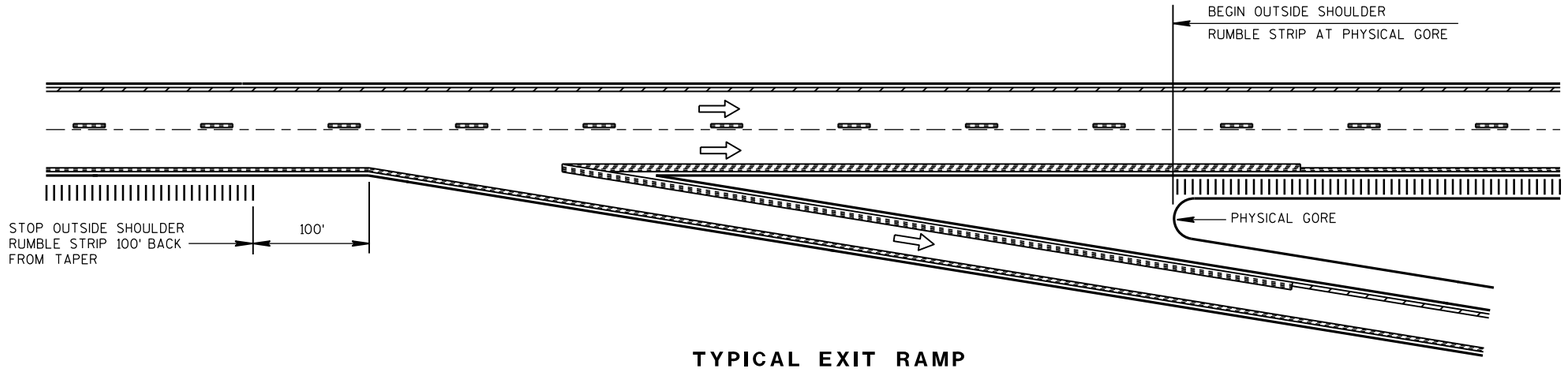
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 13 A 5-5a

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S.D.D. 13 A 5-5a



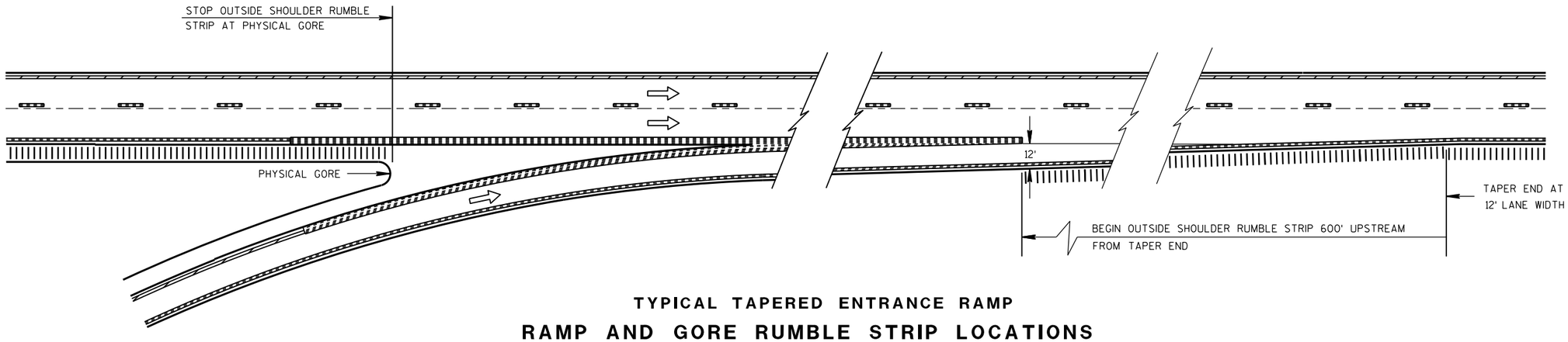
TYPICAL EXIT RAMP

NOTES:

NO RUMBLE STRIP ON EXIT, DIRECTIONAL, OR ENTRANCE RAMPS, EXCEPT NEAR THE ENTRANCE TAPER END AND ALONG THE PARALLEL RAMP AREA AS SHOWN.

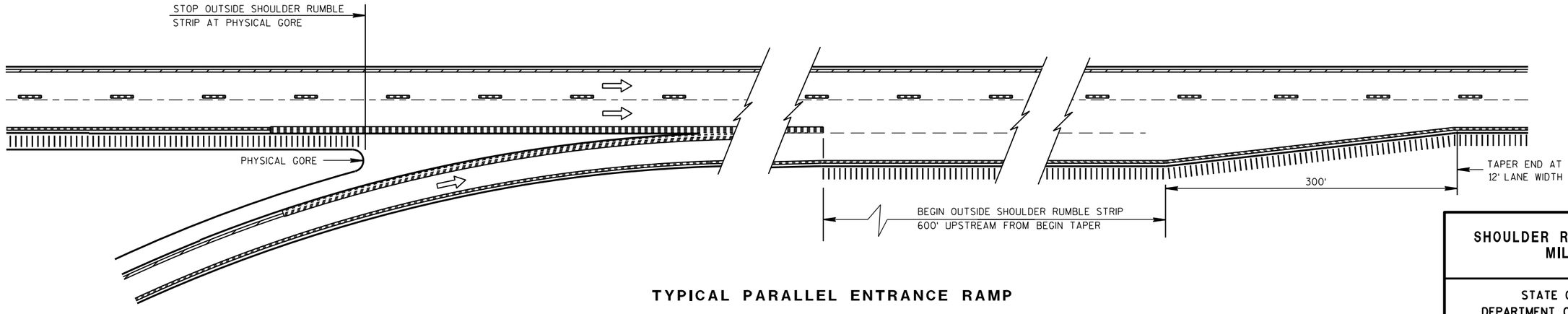
PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TYPICAL TAPERED ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS



TYPICAL PARALLEL ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS

SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

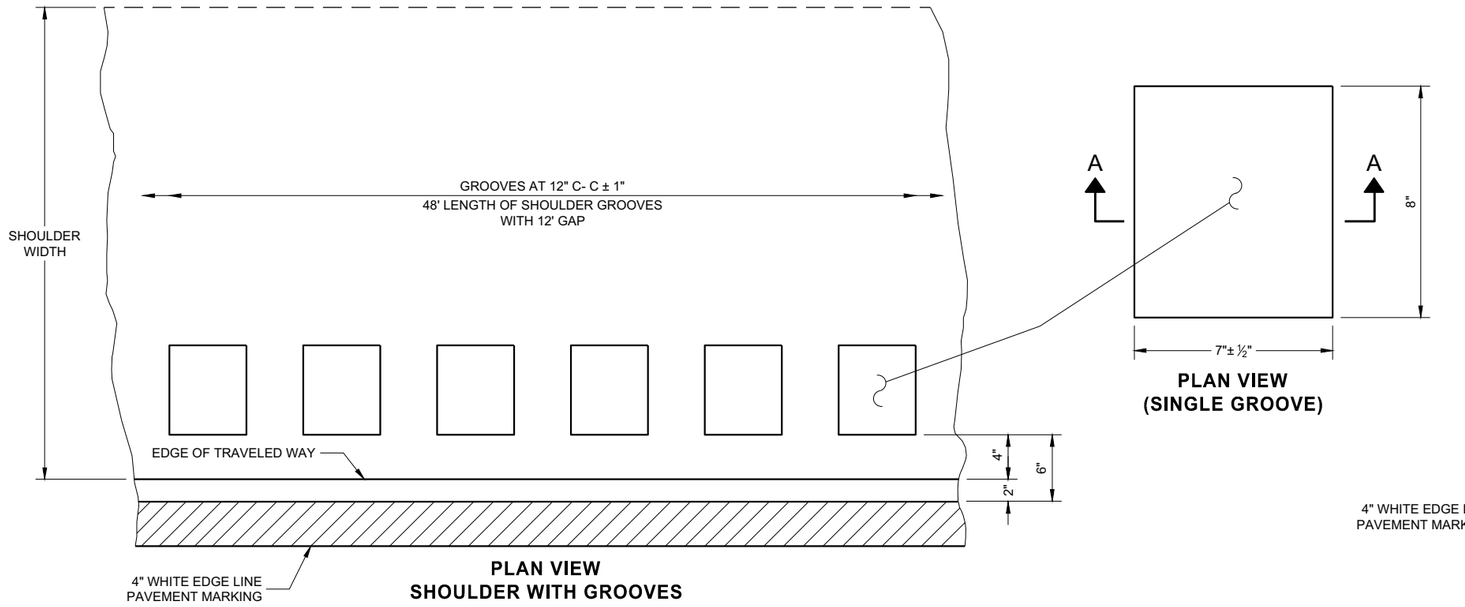
12/17/2012
DATE

/S/ Jerry H. Zoga
ROADWAY STANDARDS ENGINEER

FHWA

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S.D.D. 13 A 5-5b



PLAN VIEW
SHOULDER WITH GROOVES

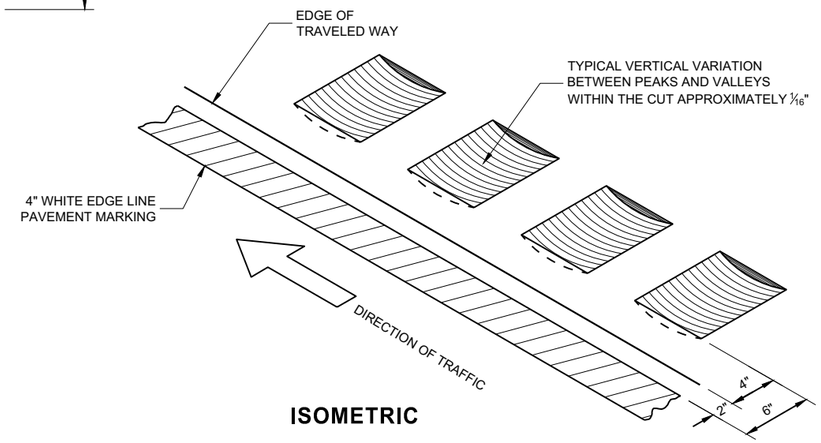
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

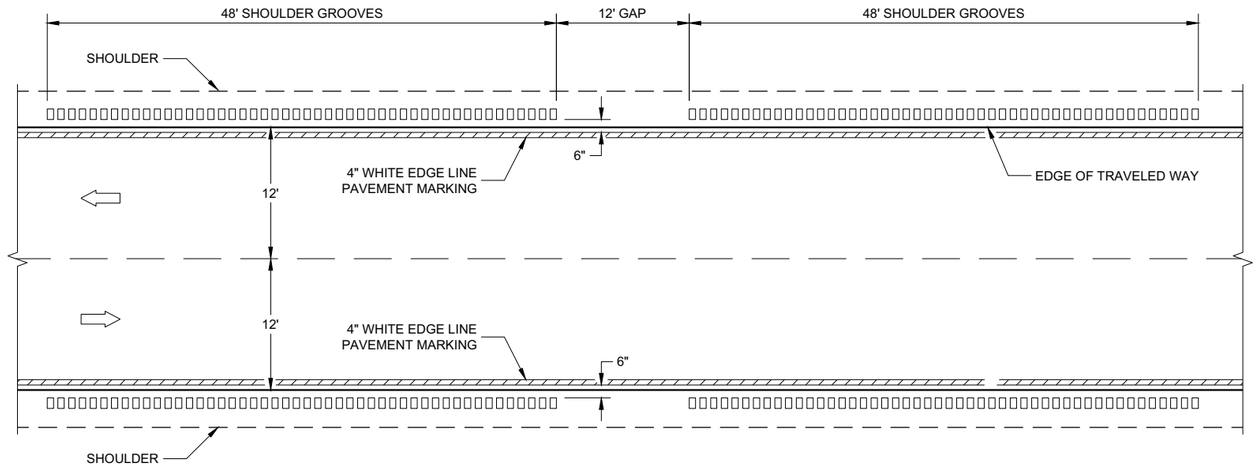
DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.

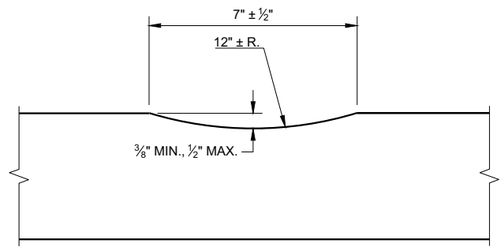


ISOMETRIC

PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP



TYPE 1
2 - LANE SHOULDER RUMBLE STRIP



SECTION A - A

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

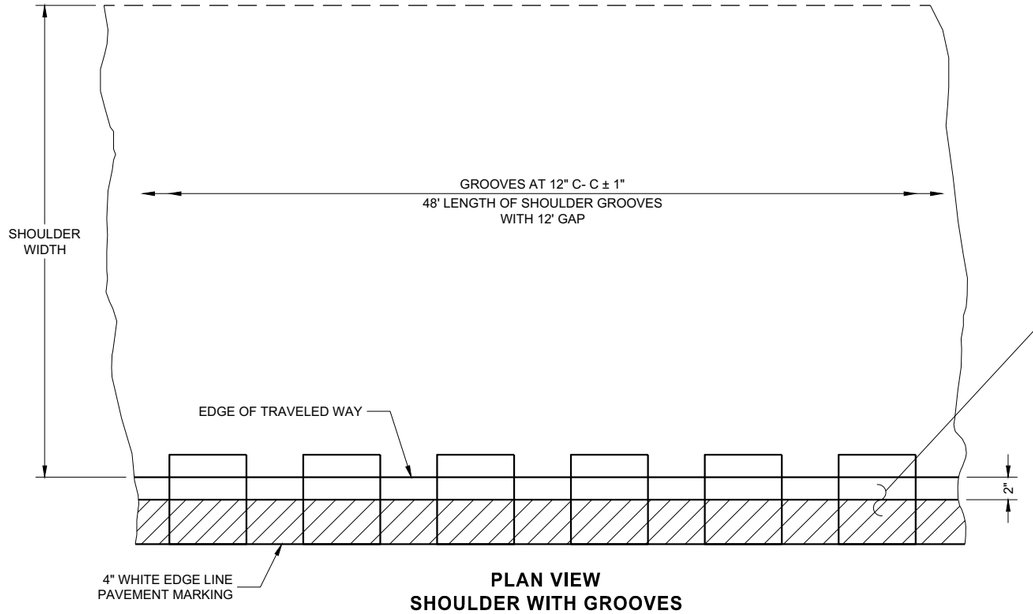
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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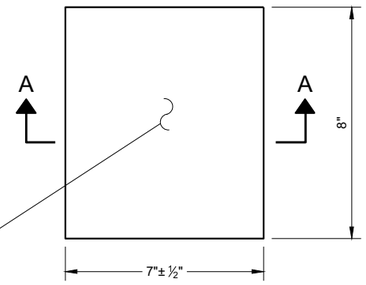
SDD 13A10 - 02a

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SDD 13A10 - 02a



PLAN VIEW
SHOULDER WITH GROOVES



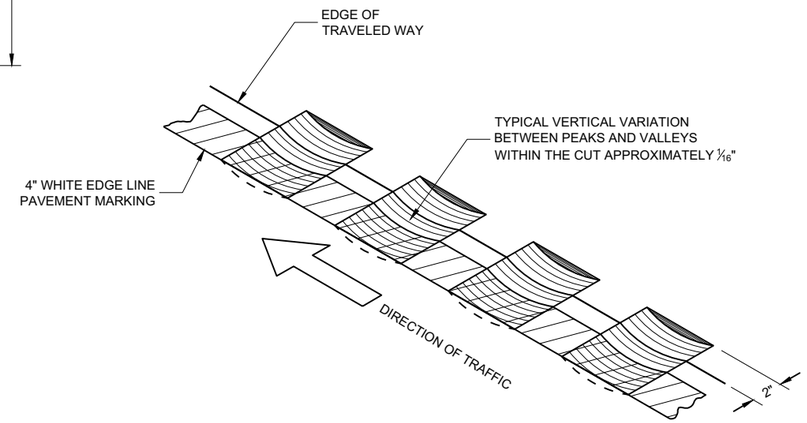
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

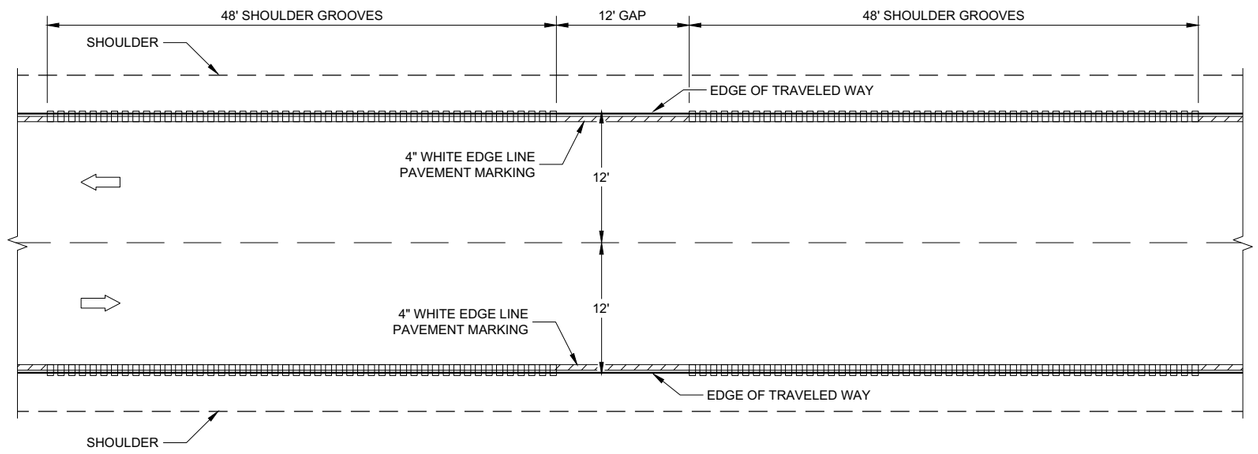
DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.

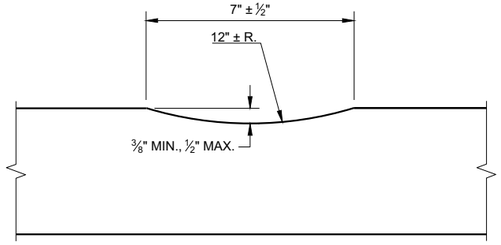


ISOMETRIC

PLACEMENT DETAIL FOR TYPE 2 MILLED RUMBLE STRIP



TYPE 2
2 - LANE SHOULDER RUMBLE STRIP

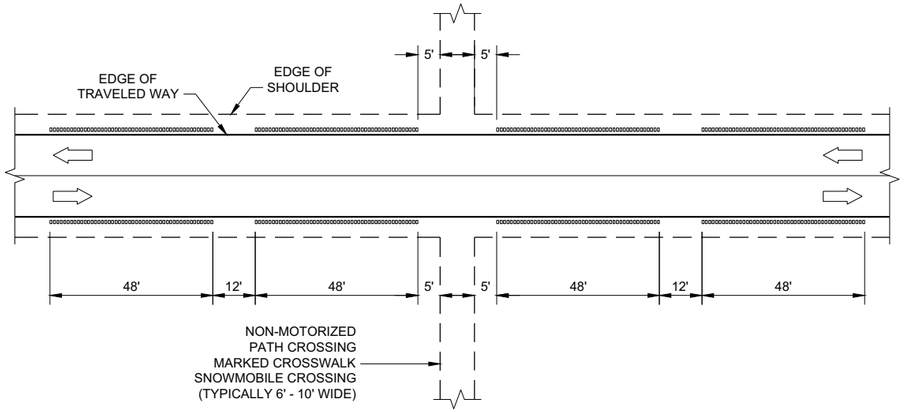


SECTION A - A

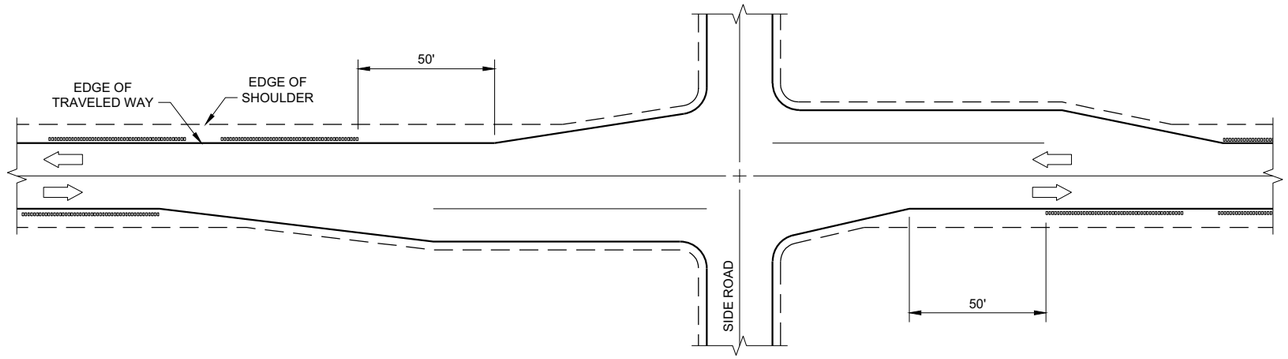
2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

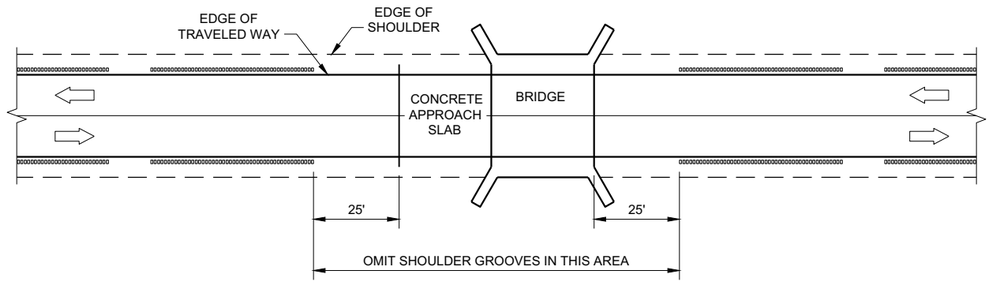
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6
SDD 13A10 - 02b
SDD13A10 - 02b



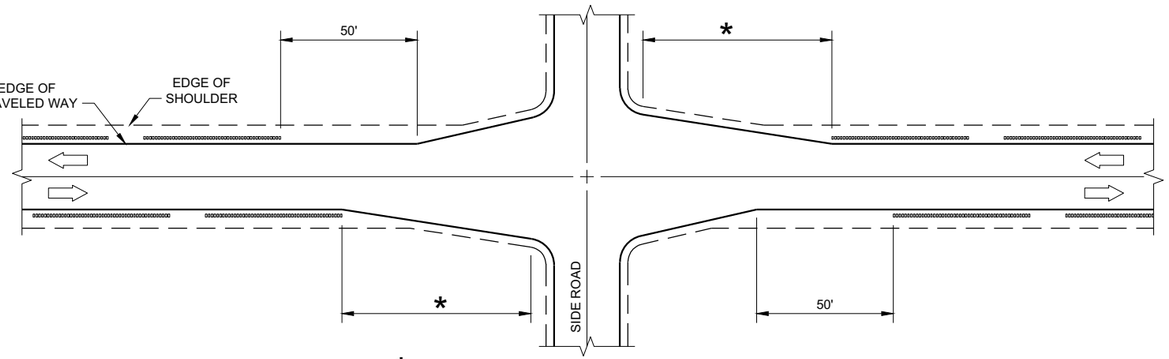
SHOULDER GROOVES AT MISCELLANEOUS CROSSINGS



SHOULDER GROOVES AT RIGHT TURN LANE

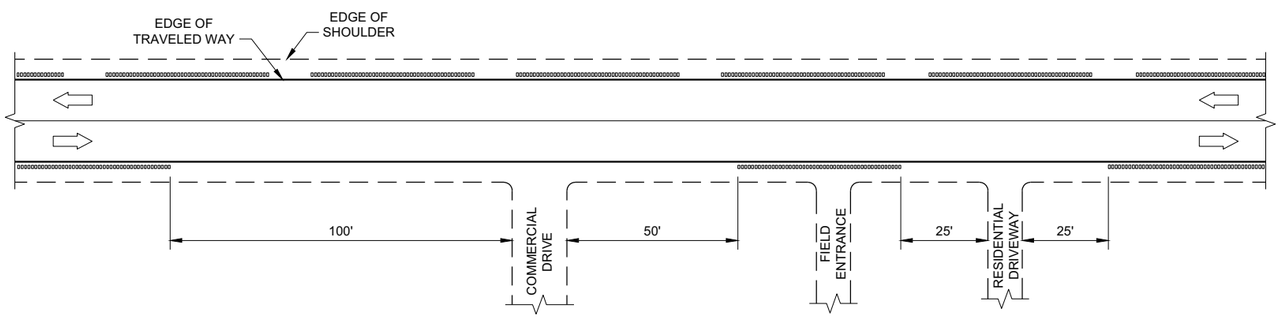


SHOULDER GROOVES AT BRIDGES



* GREATER OF 100' OR APPROACH TAPER LENGTH

SHOULDER GROOVES AT INTERSECTIONS WITH APPROACH TAPER



SHOULDER GROOVES AT DRIVEWAYS (1)

GENERAL NOTES

(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.

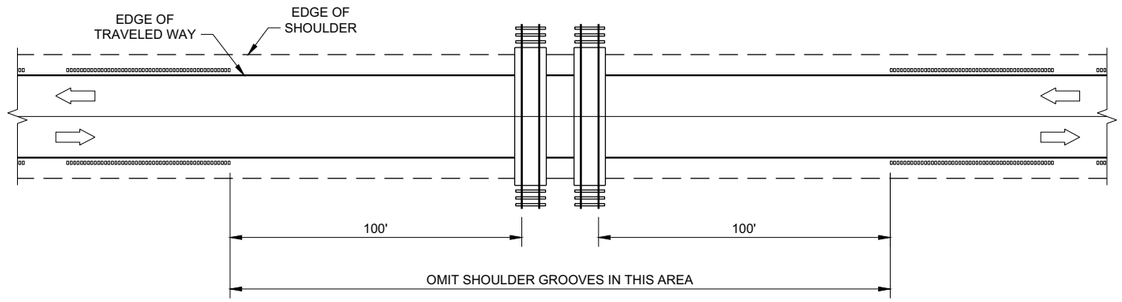
2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

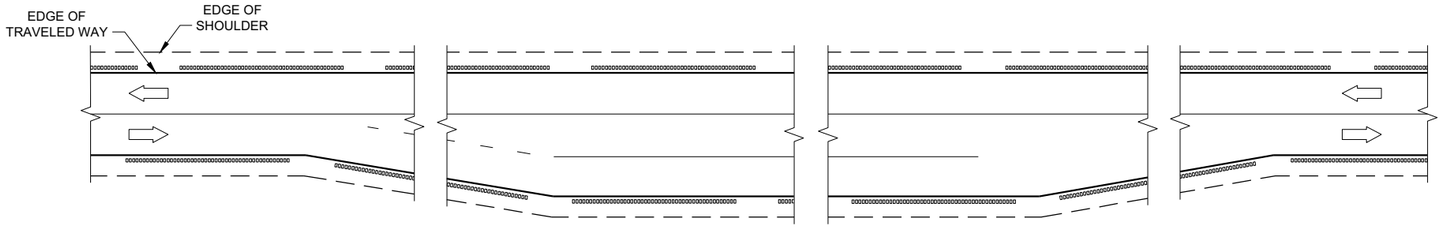
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SDD 13A10 - 02c

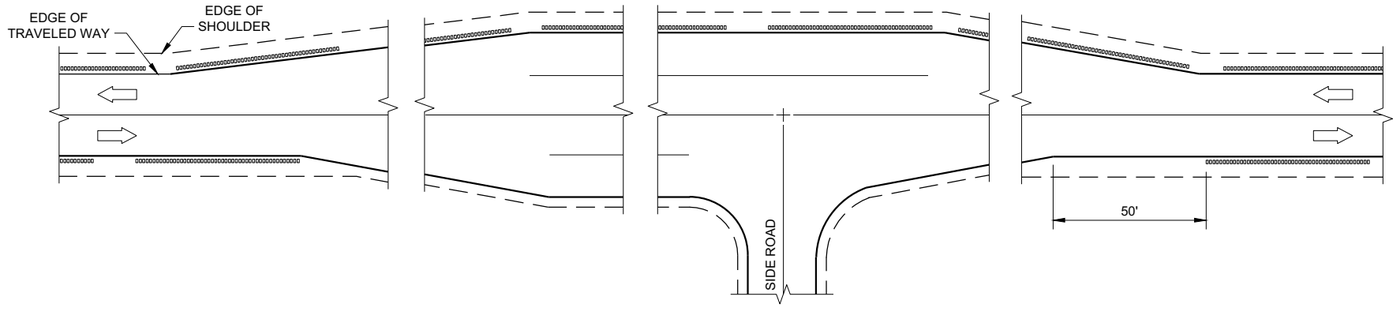
SDD 13A10 - 02c



SHOULDER GROOVES AT RAILROADS



SHOULDER GROOVES AT PASSING AND CLIMBING LANES



SHOULDER GROOVES AT BYPASS LANES

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6

SDD 13A10 - 02d

SDD13A10 - 02d

2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING

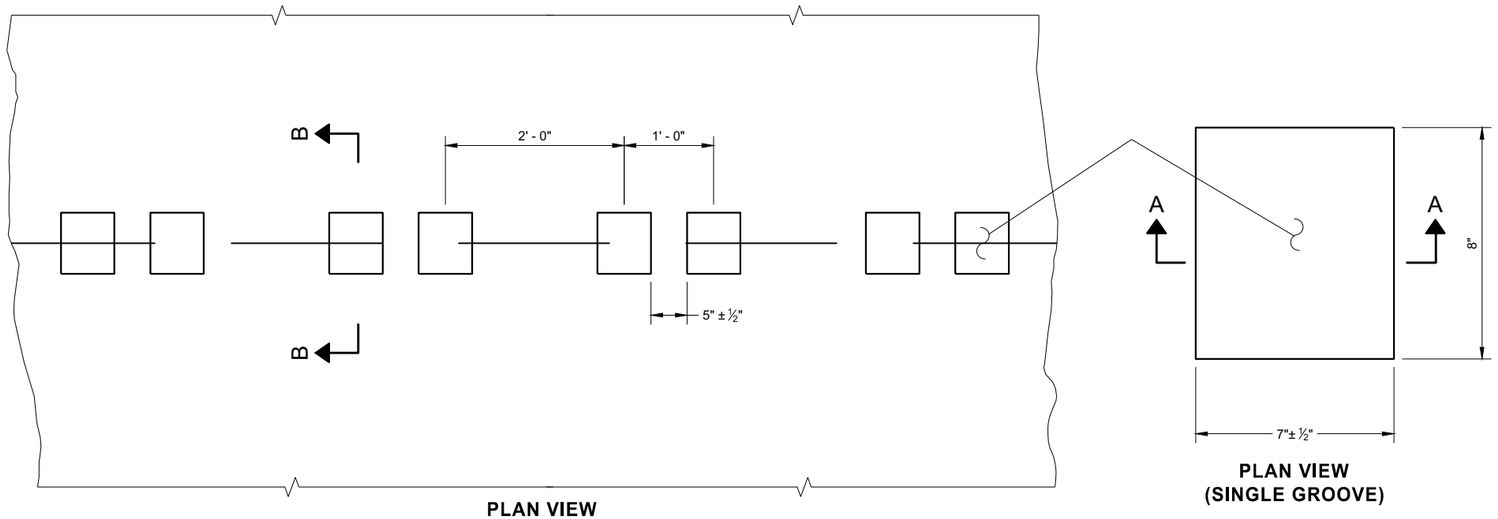
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP

GENERAL NOTES

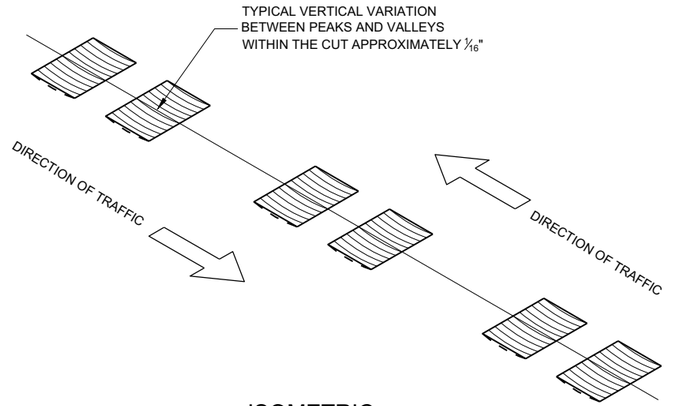
DETAILS OF CONSTRUCTION NO SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL CENTERLINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

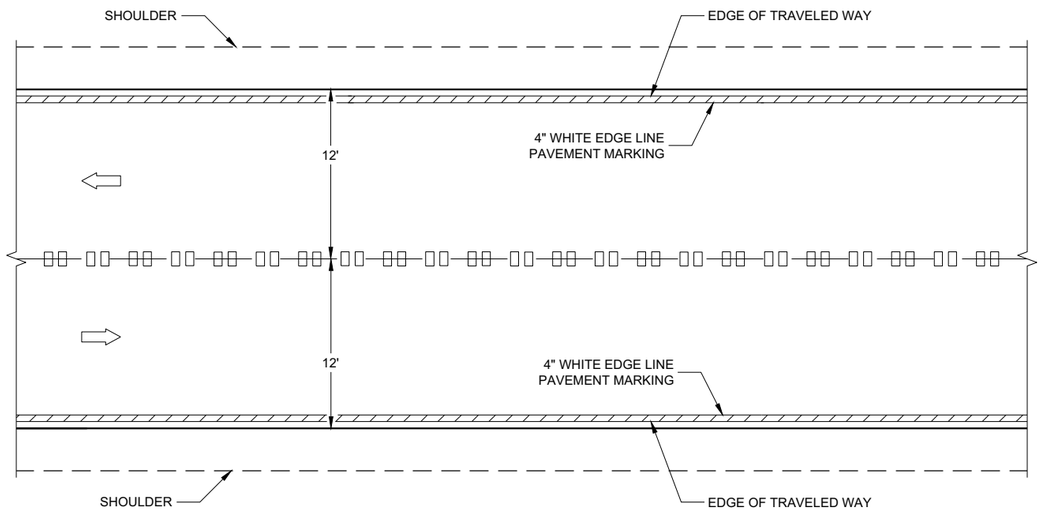
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

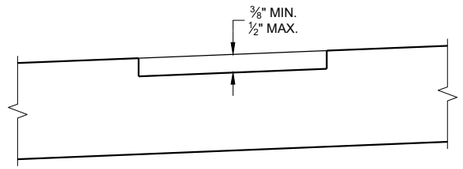
(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.



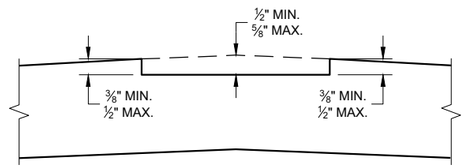
ISOMETRIC



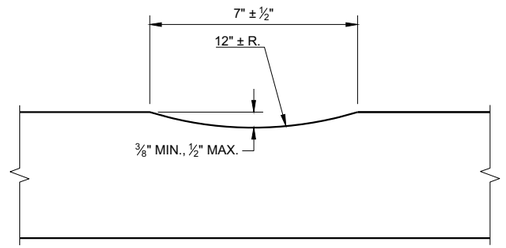
CENTERLINE GROOVES ON TWO-WAY ROADWAYS



SECTION B - B
SUPERELEVATED ROADWAY



SECTION B - B
CROWNED ROADWAY



SECTION A - A

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

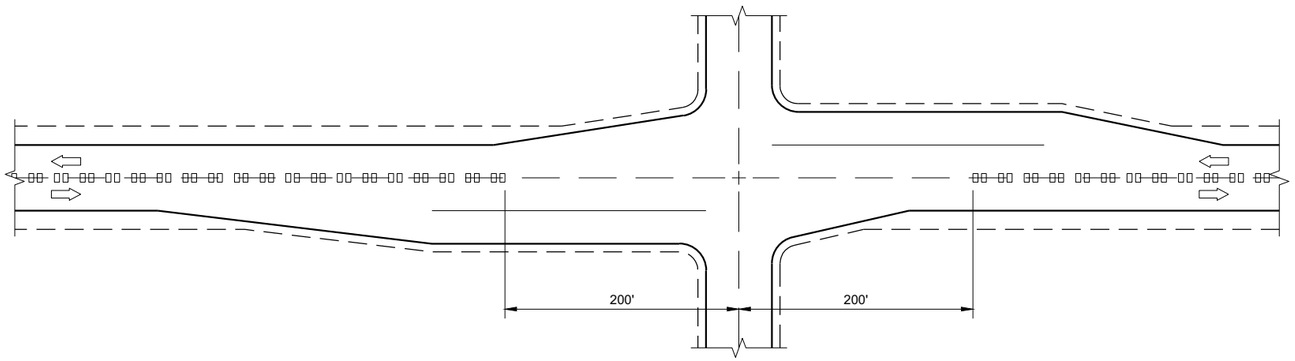
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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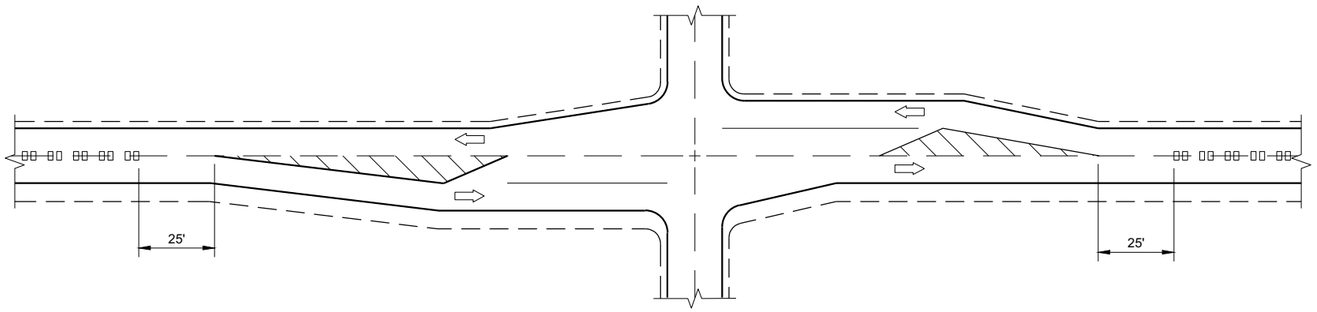
SDD 13A11 - 03a

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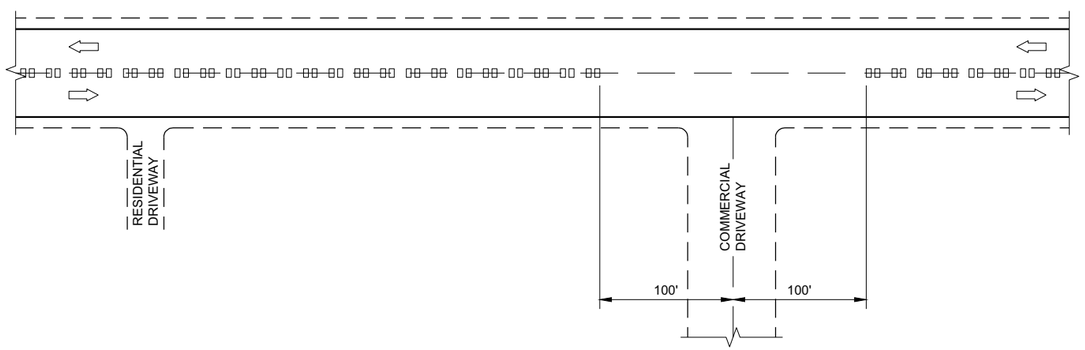
SDD 13A11 - 03a



CENTERLINE GROOVES AT INTERSECTIONS



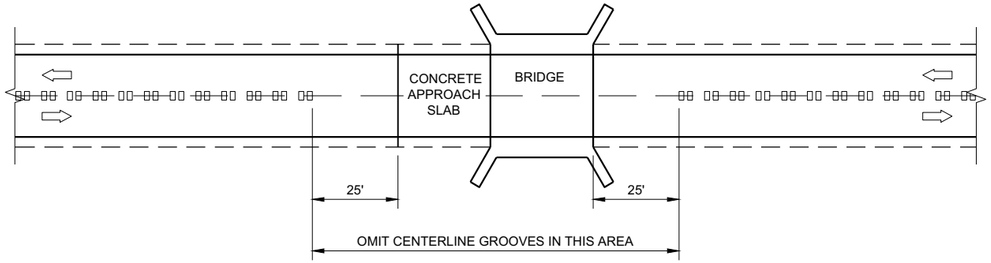
CENTERLINE GROOVES AT INTERSECTIONS (WITH LEFT TURN LANES)



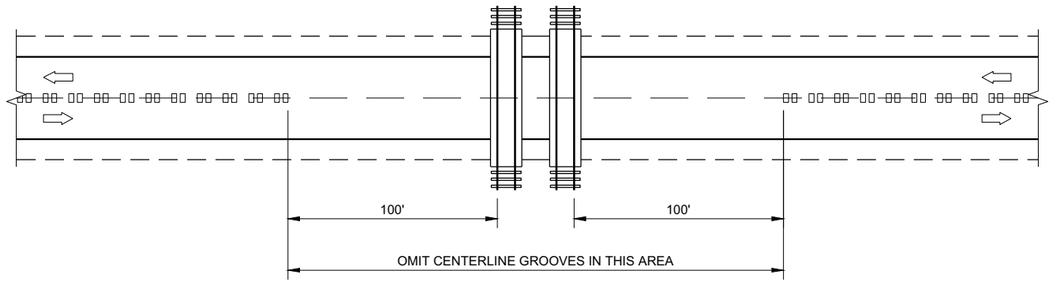
CENTERLINE GROOVES AT DRIVEWAYS (1)

GENERAL NOTES

(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.



CENTERLINE GROOVES AT BRIDGES



CENTERLINE GROOVES AT RAILROADS

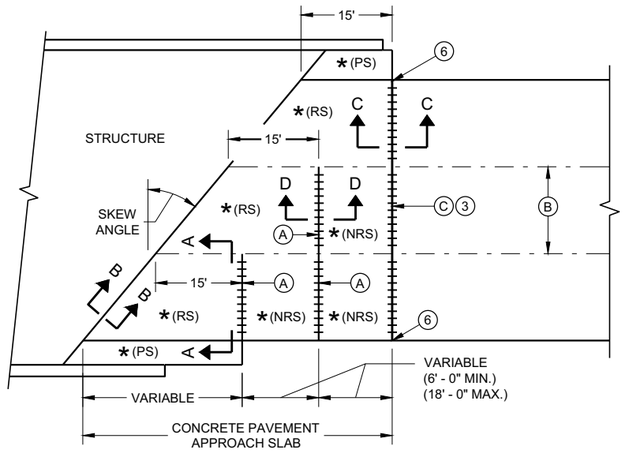
2-LANE RURAL
CENTERLINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6
SDD 13A11 - 03b



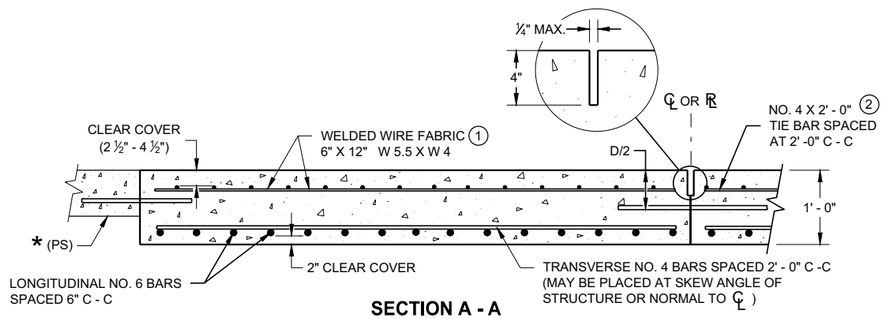
SKEWED APPROACH
(PAVEMENT MORE THAN TWO LANES)

* (RS) = REINFORCED CONCRETE SLAB

* (PS) = PAVED CONCRETE SHOULDER OR CONCRETE DRAINAGE SLAB

* (NRS) - NON - REINFORCED CONCRETE SLAB

*** STANDARD DOWEL BAR DIAMETER (SEE SDD 13C11 AND SDD 13C13)



SECTION A - A
REINFORCEMENT POSITIONING DETAIL

GENERAL NOTES

THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

(1) THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2' - 0 " C - C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.

(2) THE CONTRACTOR MAY OMIT THE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.

(3) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.

(4) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

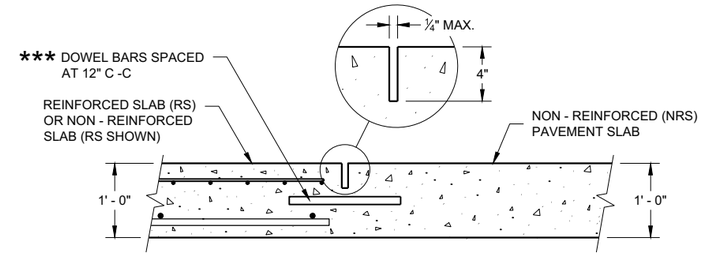
(5) PLACE EXPANSION CAP ON THE END OF THE DOWEL THAT IS NOT TACK WELDED TO THE BASKET. DO NOT FORCE DOWEL BAR PAST THE DOWEL STOP.

(6) EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.

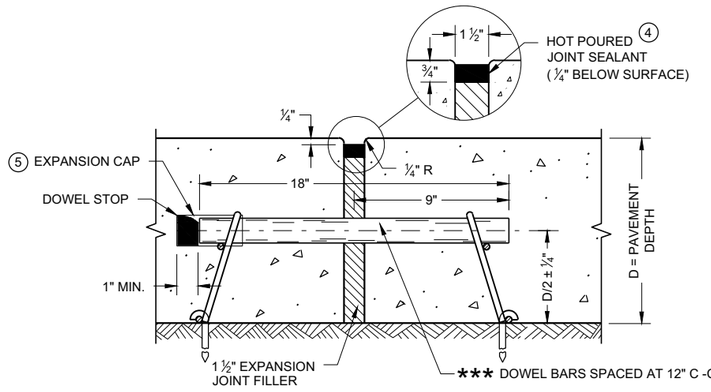
(A) STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℞.

(B) STANDARD LONGITUDINAL JOINT WITH TIE BARS.

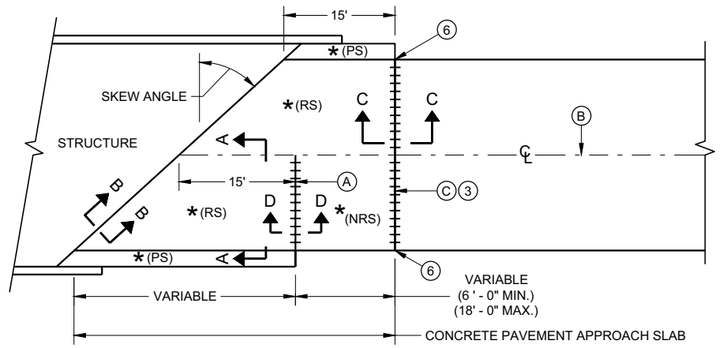
(C) 1 ½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℞ .



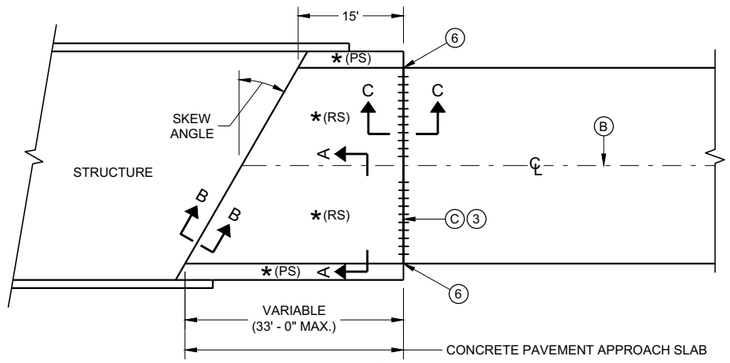
SECTION D - D
CONTRACTION JOINT



EXPANSION JOINT DETAIL

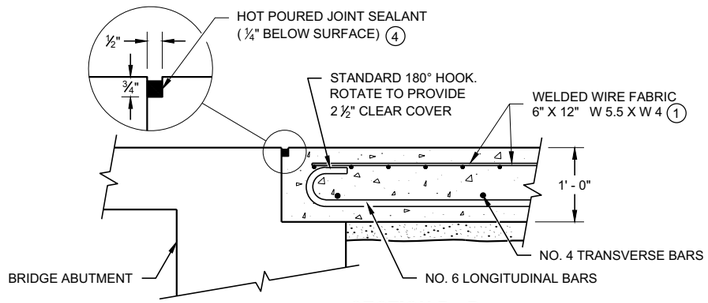


SKEWS > 20°
(PAVEMENT WIDTH ≤ 30')

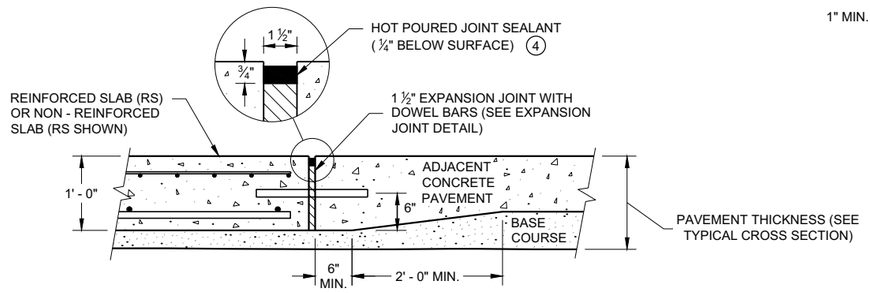


SKEWS ≤ 20°
(PAVEMENT WIDTH ≤ 30')

APPROACH SLAB AND ADJACENT PAVEMENT



SECTION B - B
BEND DETAIL
BOTTOM REINFORCEMENT



SECTION C - C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT

CONCRETE PAVEMENT APPROACH SLAB

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APPROVED
November 2018
DATE

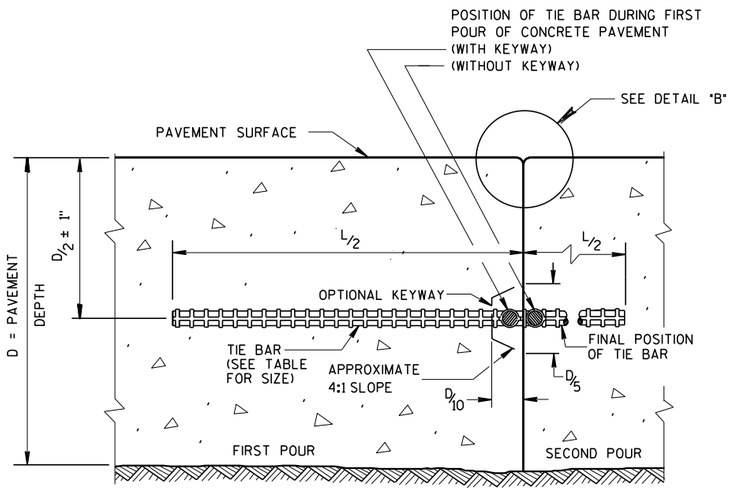
/S/ Peter Kemp, P.E.
PAVEMENT SUPERVISO

FHWA

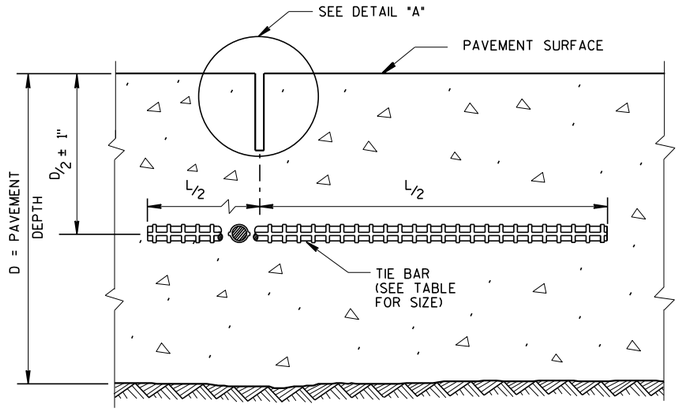
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SDD 13B02 - 09a

SDD 13B02 - 09a



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

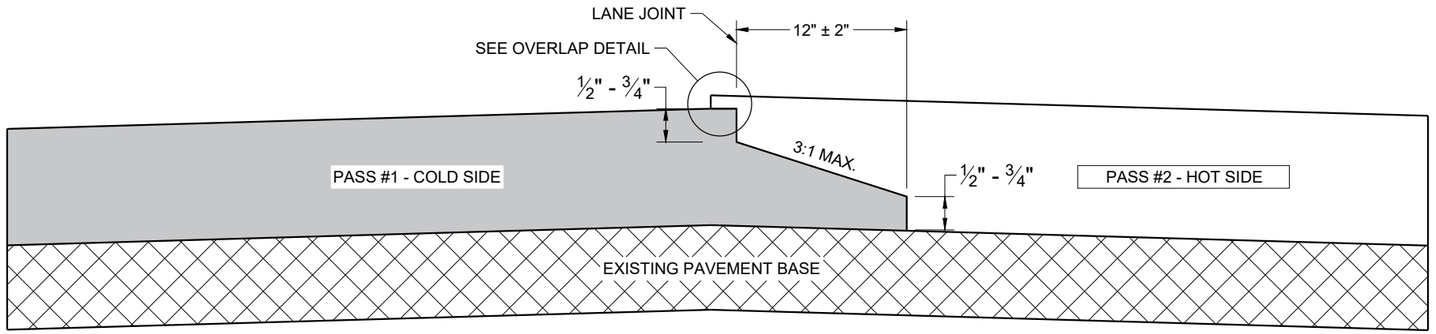
APPROVED
March 2018 — DATE
/S/ Peter Kemp P.E. — PAVEMENT SUPE
FHWA

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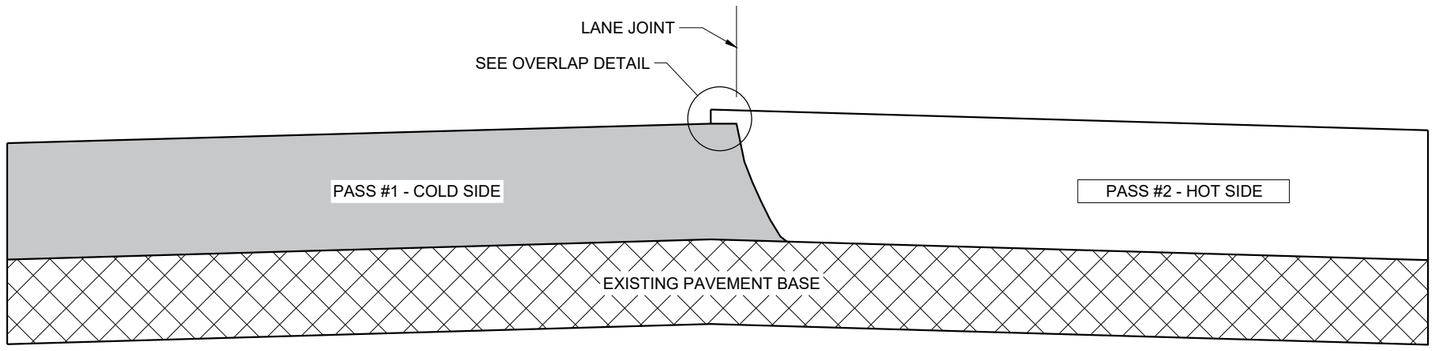
S.D.D. 13 C 1-19

6

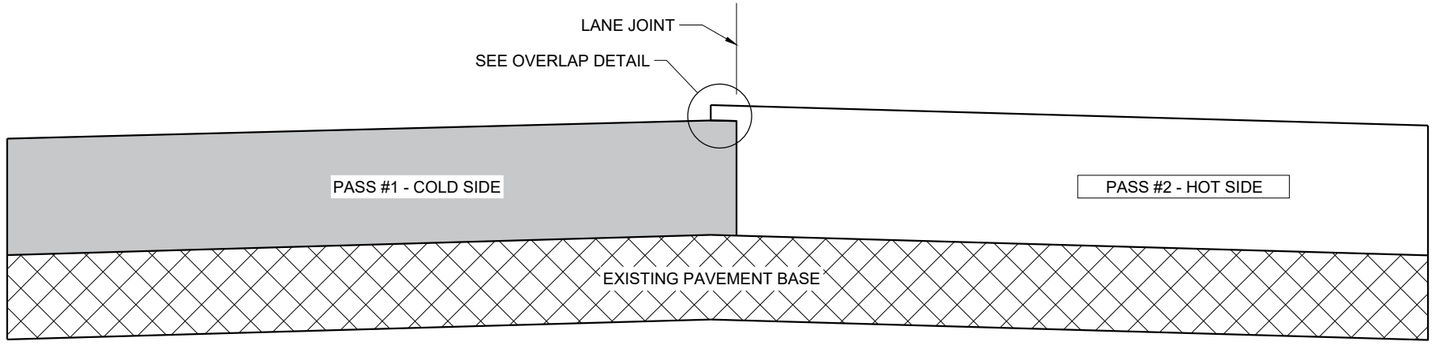
S.D.D. 13 C 1-19



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

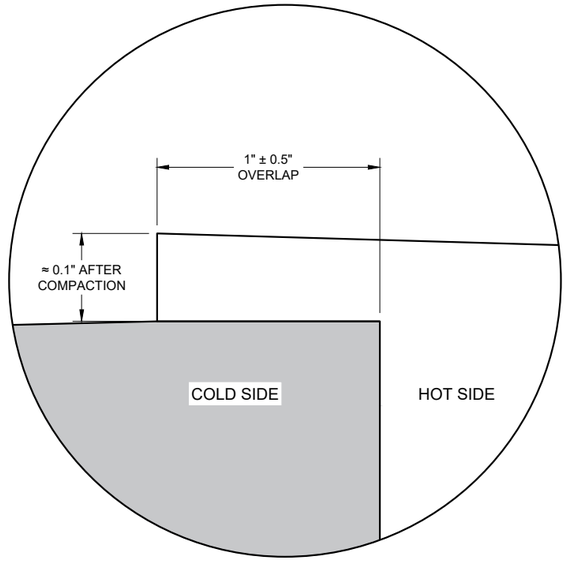
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

6

6

SDD 13C19 - 03

SDD 13C19 - 03

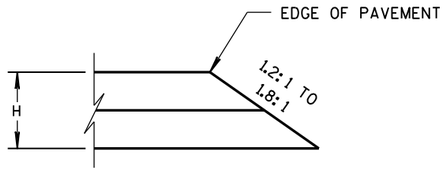
HMA LONGITUDINAL JOINTS

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November 2020
DATE

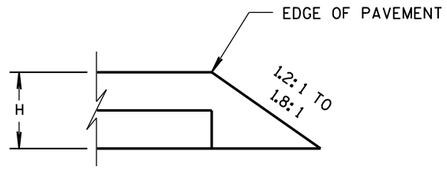
/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA



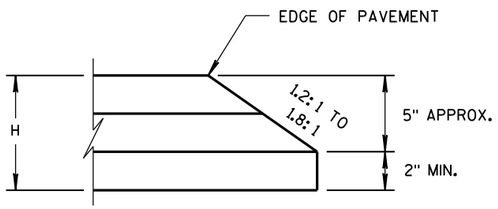
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



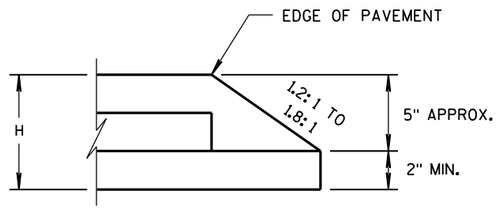
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

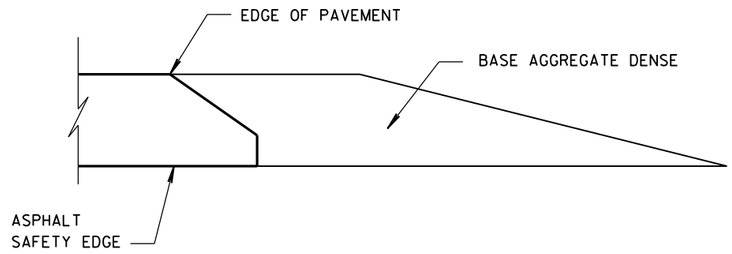
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

6

6

S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

SAFETY EDGE SM

STATE OF WISCONSIN
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APPROVED

11/30/2012
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

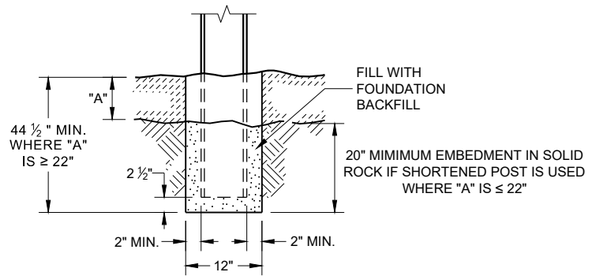
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

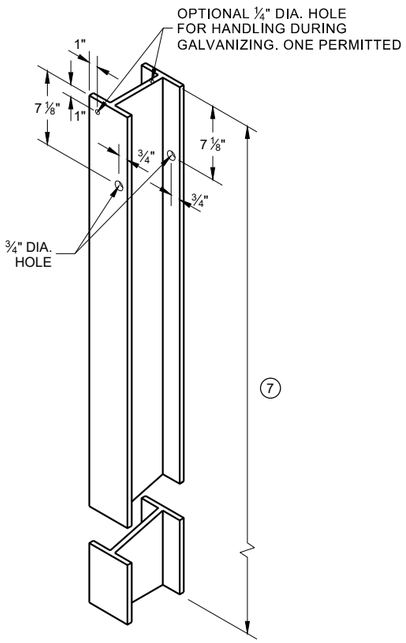
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

(6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

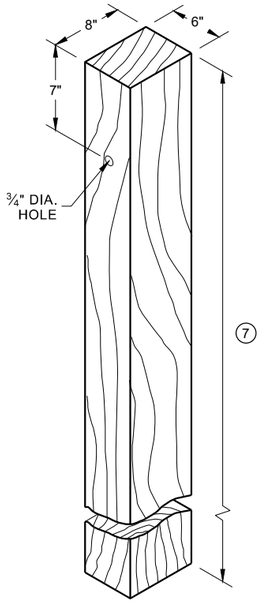
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



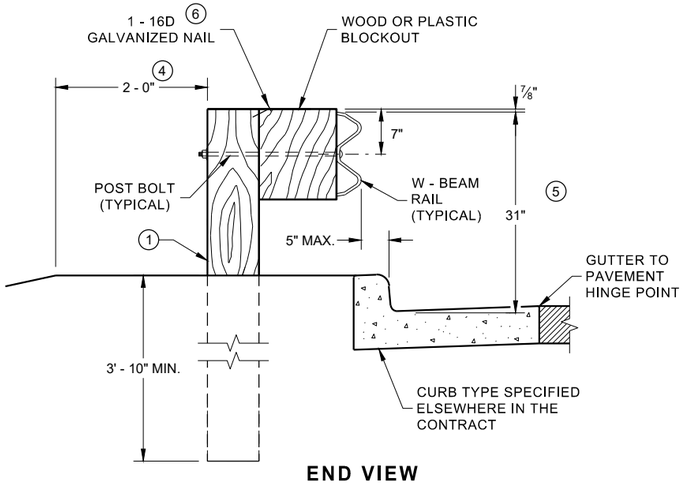
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



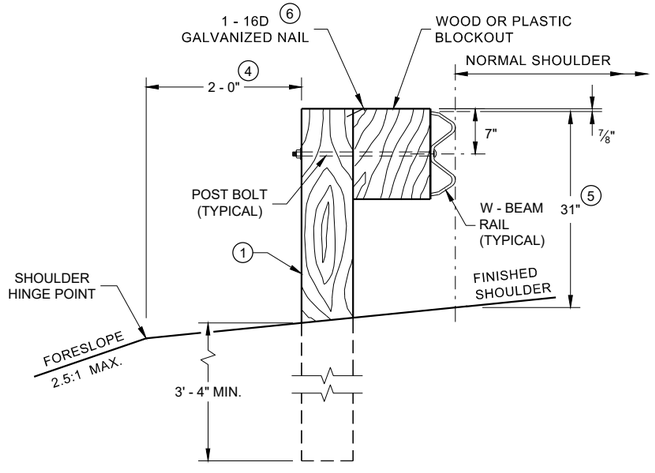
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



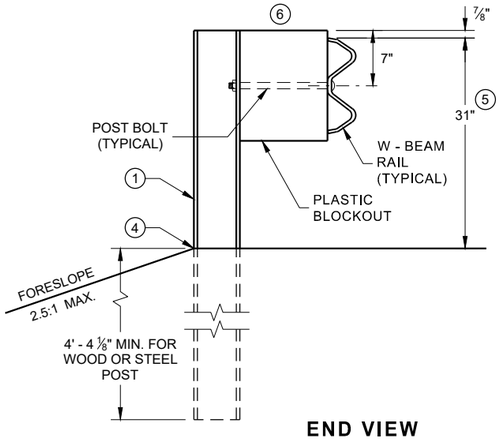
WOOD POST (6" X 8") NOMINAL (1)



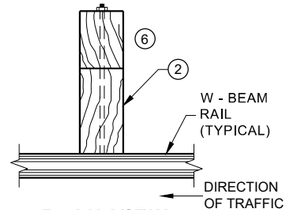
END VIEW
LOCATED ALONG A CURBED ROADWAY



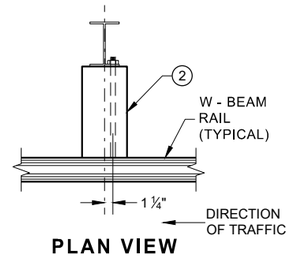
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



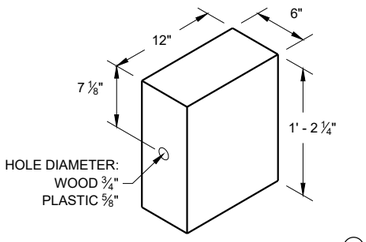
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

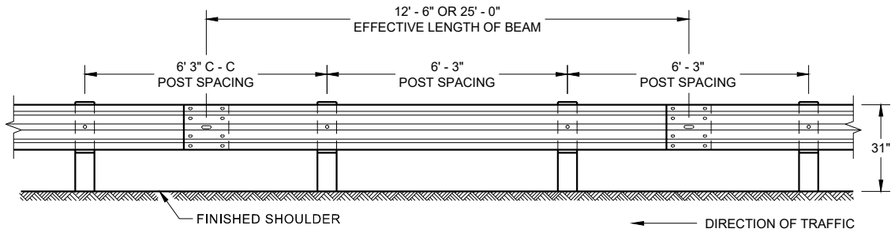
STATE OF WISCONSIN
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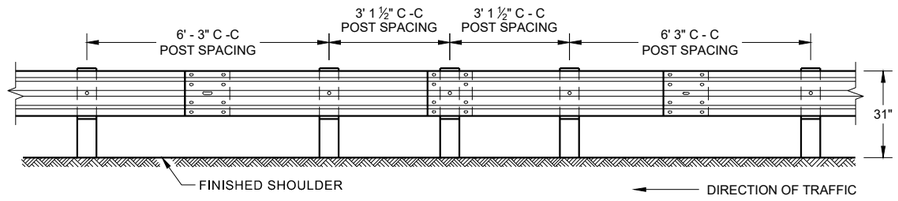
SDD 14B42 - 07a

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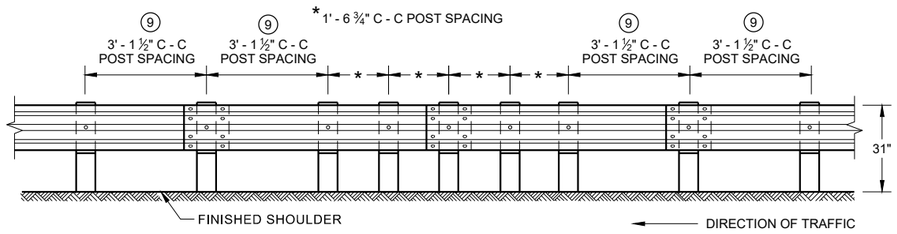
SDD 14B42 - 07a



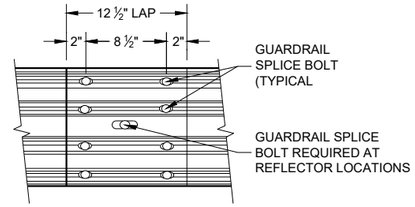
FRONT VIEW
POST SPACING STANDARD INSTALLATION



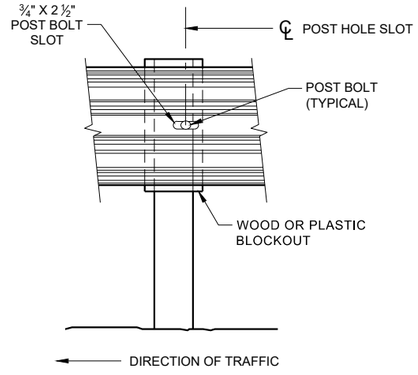
FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



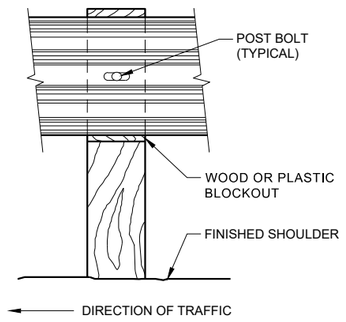
FRONT VIEW
QUARTER POST SPACING (QS)



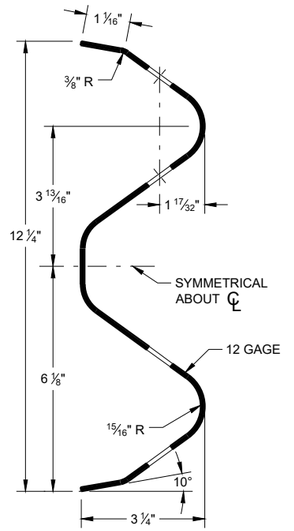
FRONT VIEW
MID-SPAN BEAM SPLICE



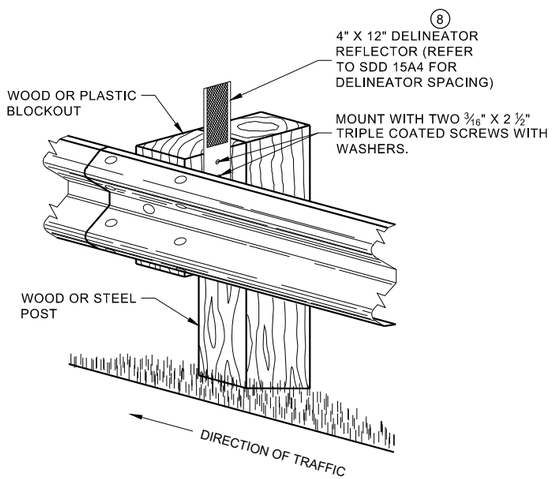
FRONT VIEW AT STEEL POST



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.

⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

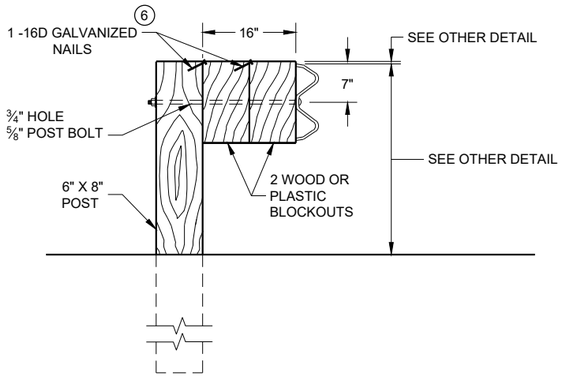
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 14B42 - 07b

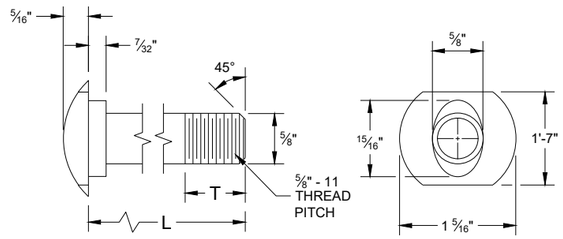


DETAIL FOR 16" BLOCKOUT DEPTH

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.

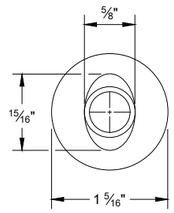
NOTE:

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.

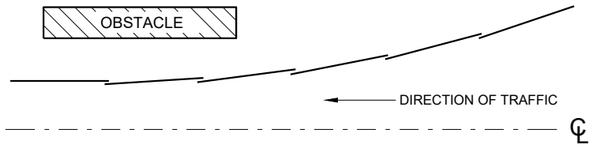


POST BOLT TABLE

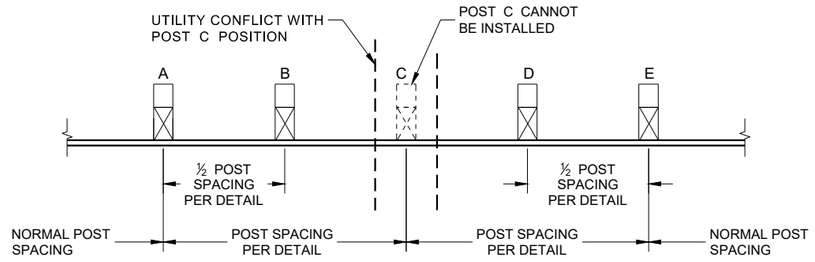
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"



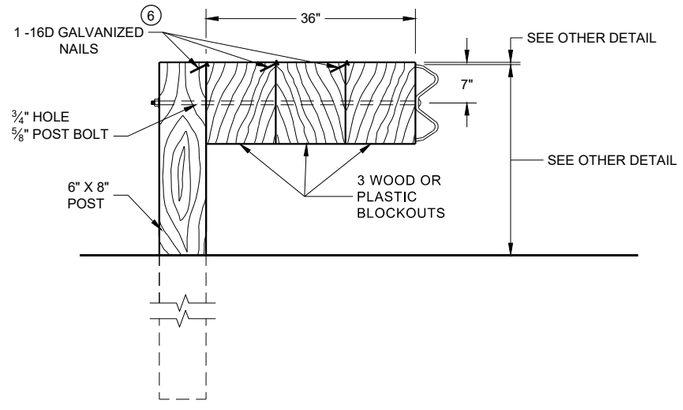
ALTERNATE BOLT HEAD



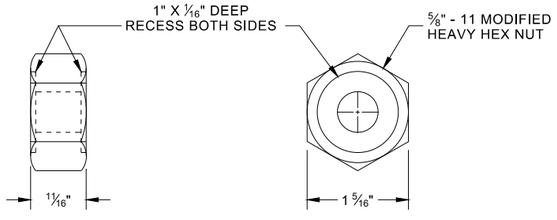
PLAN VIEW
BEAM LAPPING DETAIL



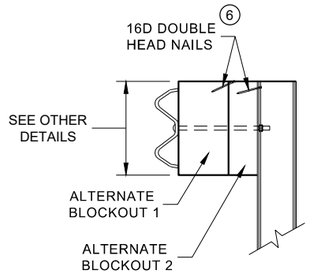
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



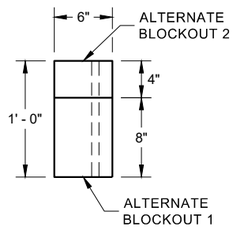
DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



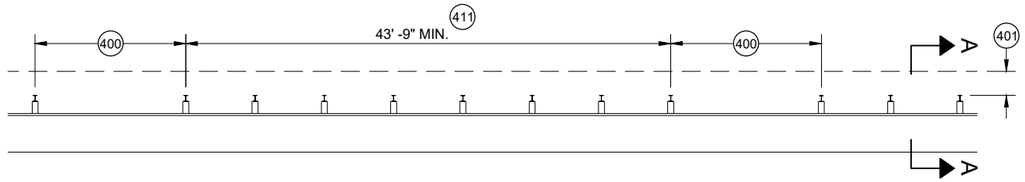
PLAN VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

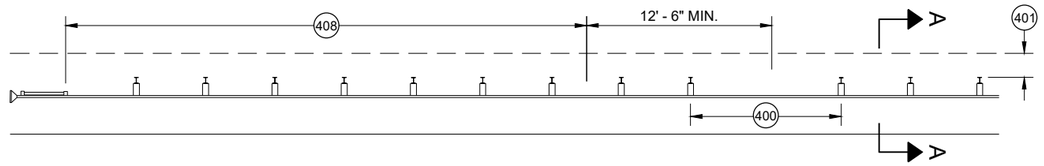
NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

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.

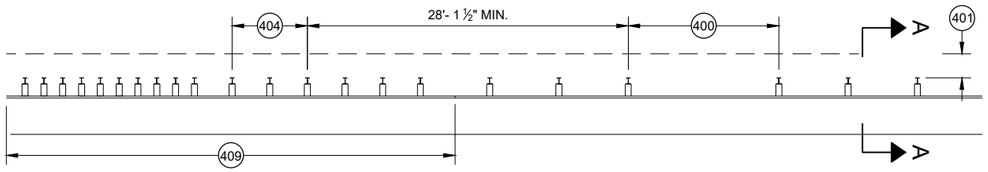
(6) WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



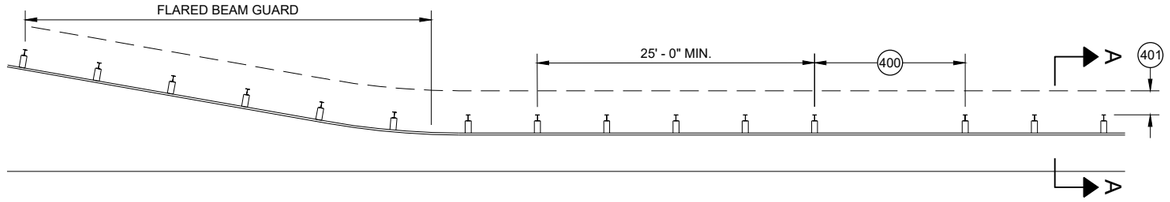
MISSING POST IN MGS GUARDRAIL



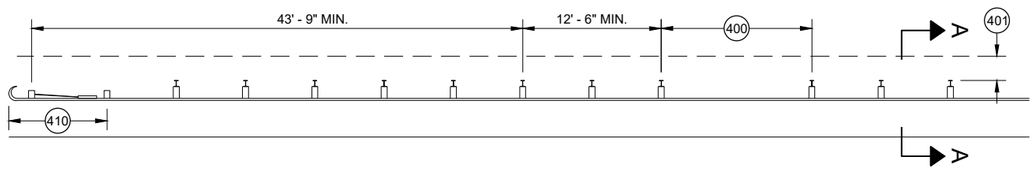
MISSING POST IN MGS GUARDRAIL NEAR EAT



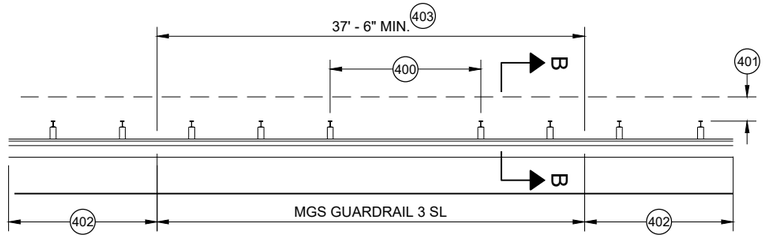
MISSING POST IN MGS GUARDRAIL NEAR AN APPROACH TRANSITION



MISSING POST IN MGS GUARDRAIL NEAR FLARED BEAM GUARD

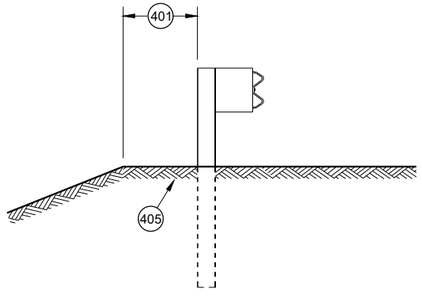


MISSING POST IN MGS GUARDRAIL NEAR A TYPE 2 END TERMINAL

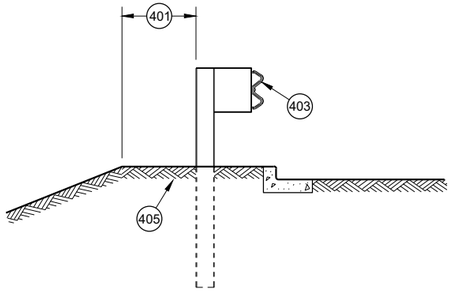


MISSING POST IN SHORT SPAN MGS GUARDRAIL NEAR CURB (SL) 407

400 MAX SPAN 12' - 6"
401 2' MIN.
402 MGS GUARDRAIL 3
403 NESTING BEAM GUARD
404 ASYMMETRIC TRANSITION
405 SOIL WELL DRAINED AND COMPACTED
406 SEE OTHER DRAWINGS IN THIS SDD
407 SEE OTHER DRAWINGS FOR MIN. SPACING BETWEEN SPANS
408 SEE SDD 14B44
409 SEE SDD 14B45
410 SEE SDD 14B47
411 MINIMUM DISTANCE BETWEEN MISSING POST SPANS.



SECTION A - A 406



SECTION B - B 406

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

FHWA

6

SDD 14B42 - 07d

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED

(C) DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.

(D) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.

(E) HARDWARE MAY VARY BETWEEN MANUFACTURER. SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

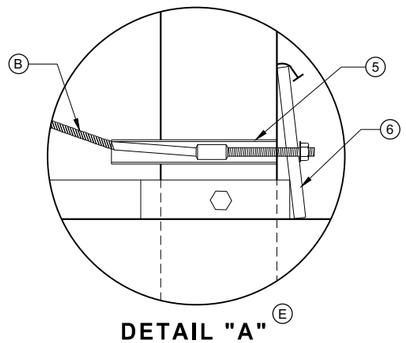
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

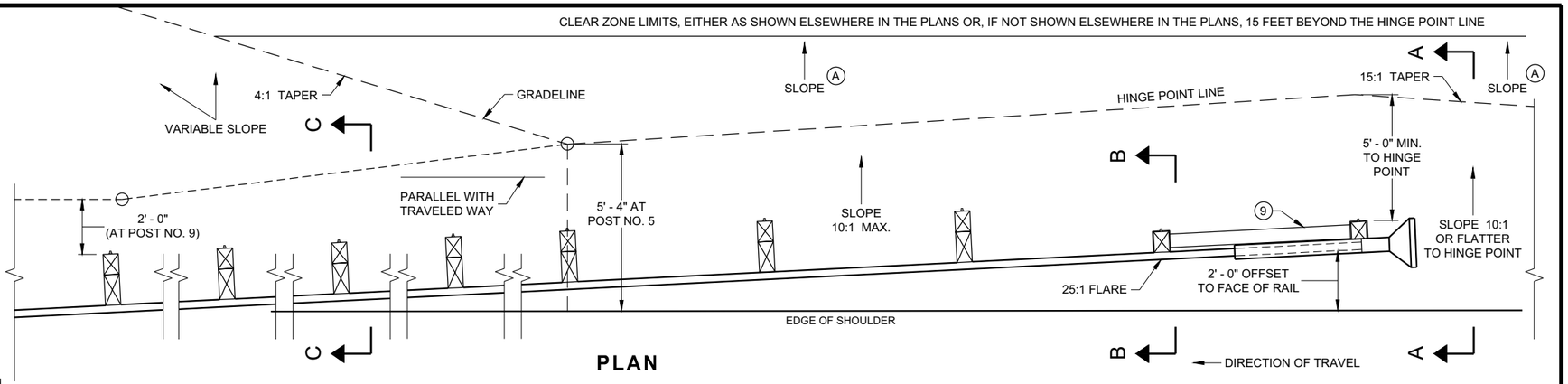
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

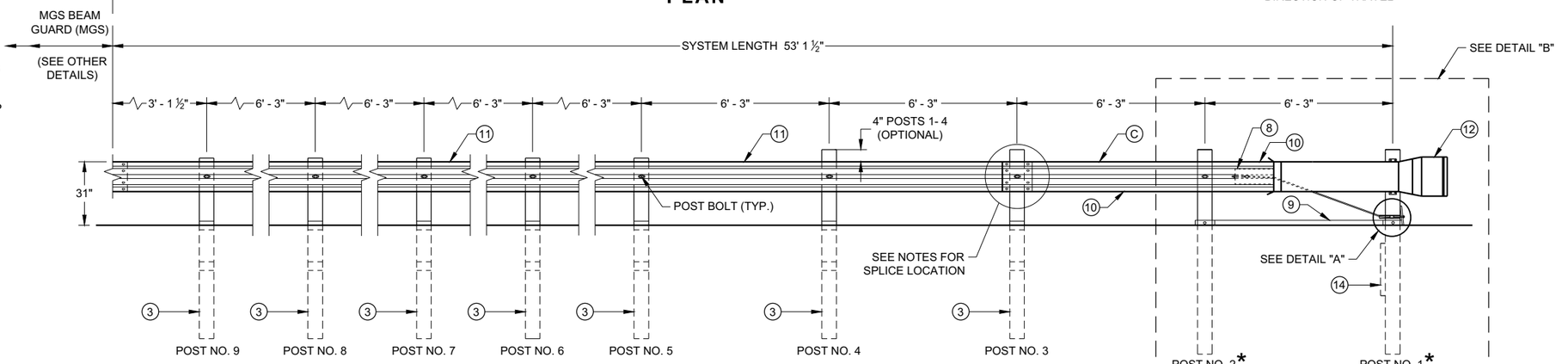
THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.



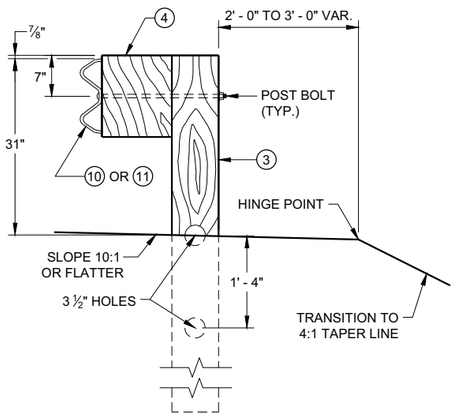
DETAIL "A" (E)



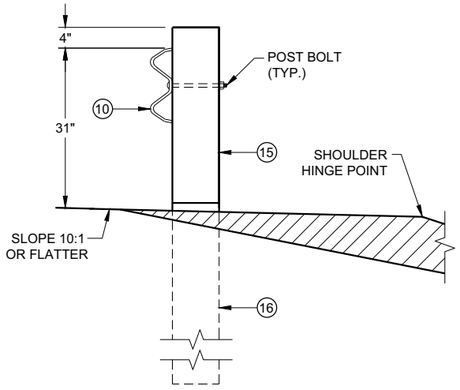
PLAN



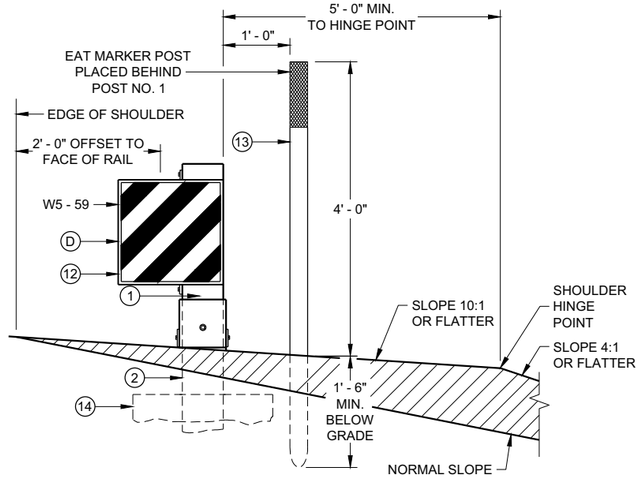
ELEVATION



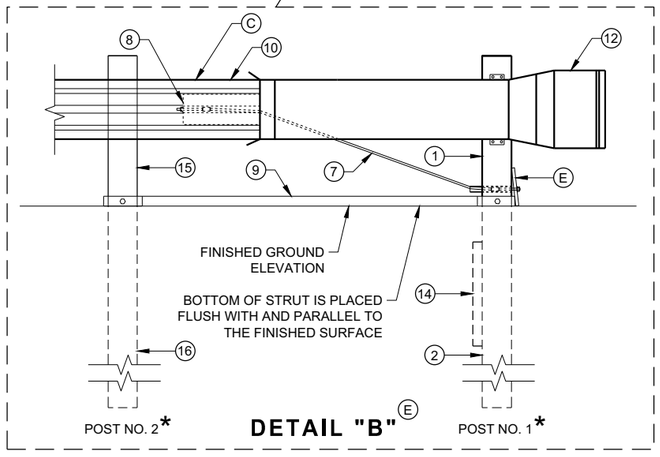
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



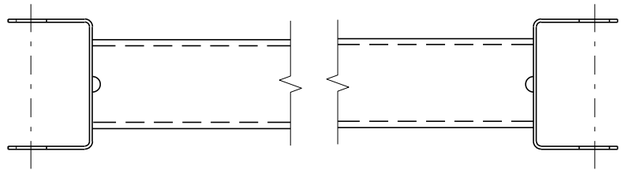
DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

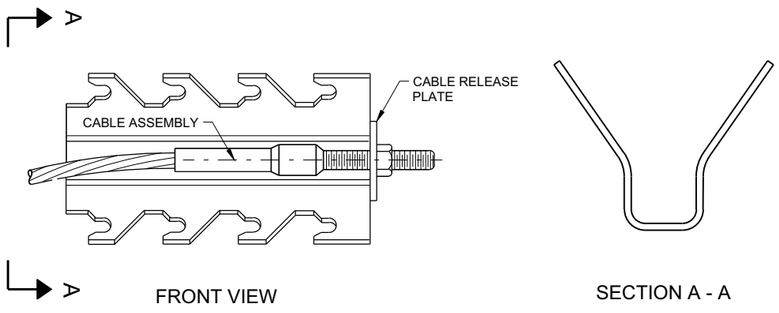
SDD 14B44 - 04a



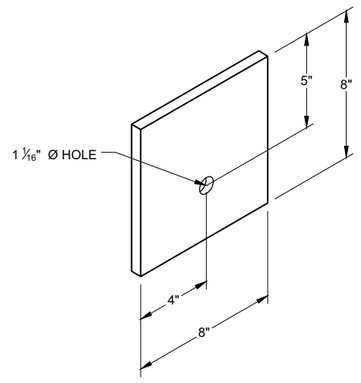
GENERIC GROUND STRUT ⑨ Ⓔ

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
①	UPPER POST NO. 1 6" X 6" TUBE
②	LOWER POST NO. 1
③	WOOD CRT
④	WOOD BLOCKOUT
⑤	PIPE SLEEVE
⑥	BEARING PLATE
⑦	BCT CABLE ASSEMBLY
⑧	ANCHOR CABLE BOX
⑨	GROUND STRUT
⑩	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
⑪	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
⑫	IMPACT HEAD
⑬	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
⑭	SOIL PLATE
⑮	UPPER POST NO. 2
⑯	LOWER POST NO. 2



GENERIC ANCHOR CABLE BOX ⑧ Ⓔ



BEARING PLATE ⑥ Ⓔ

6

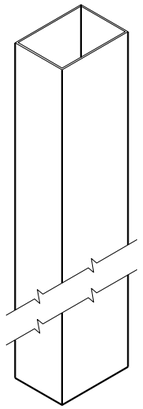
6

SDD 14B44 - 04b

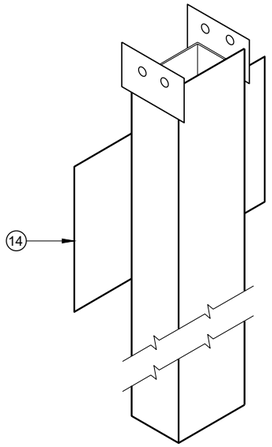
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

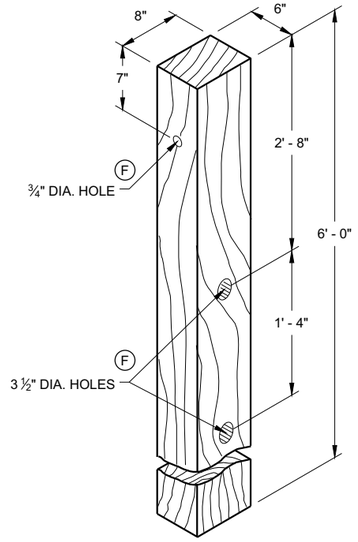
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



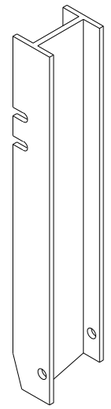
UPPER POST NO. 1 (1) (E)



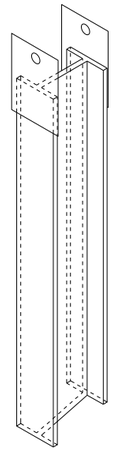
LOWER POST NO. 1 (2) (E)



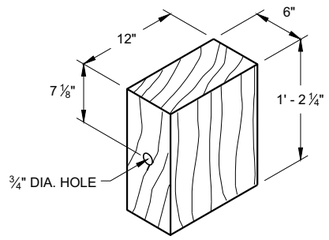
WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



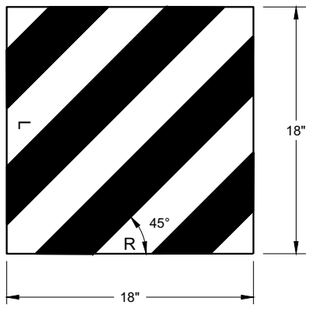
UPPER POST NO. 2 (15) (E)



LOWER POST NO. 2 (16) (E)

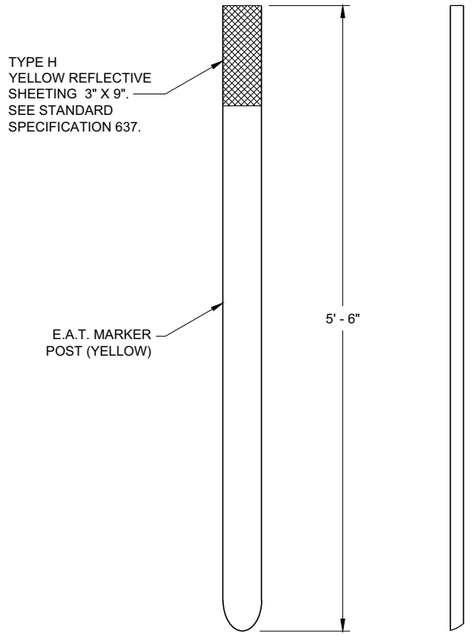


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



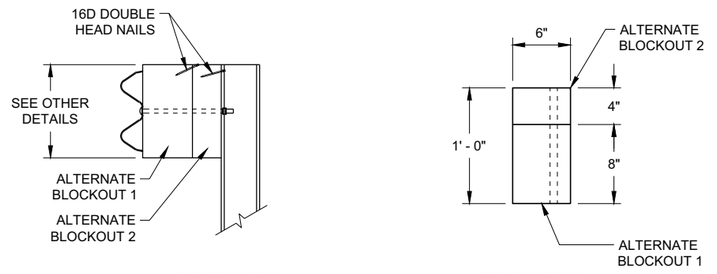
W5 - 59

REFLECTIVE SHEETING DETAIL (E)



FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

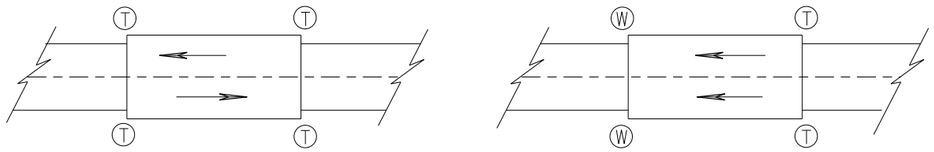
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

FHWA

6

SDD 14B44 - 04c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

(T) THRIE BEAM CONNECTION

(W) W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

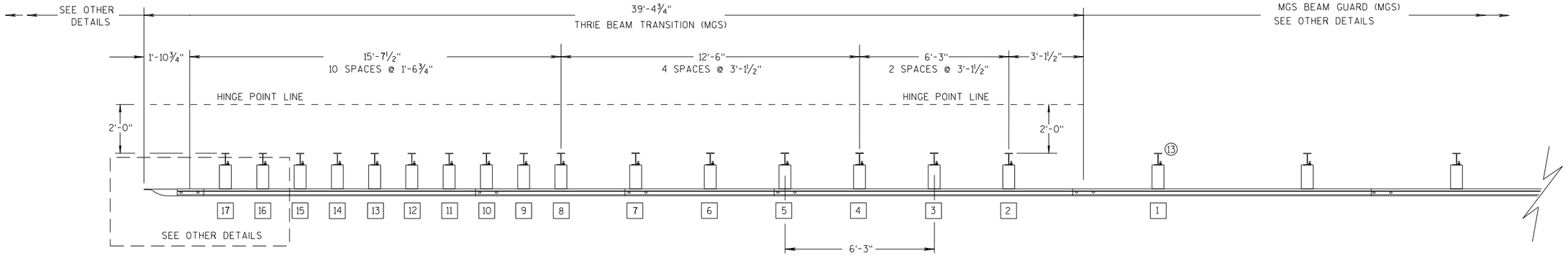
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

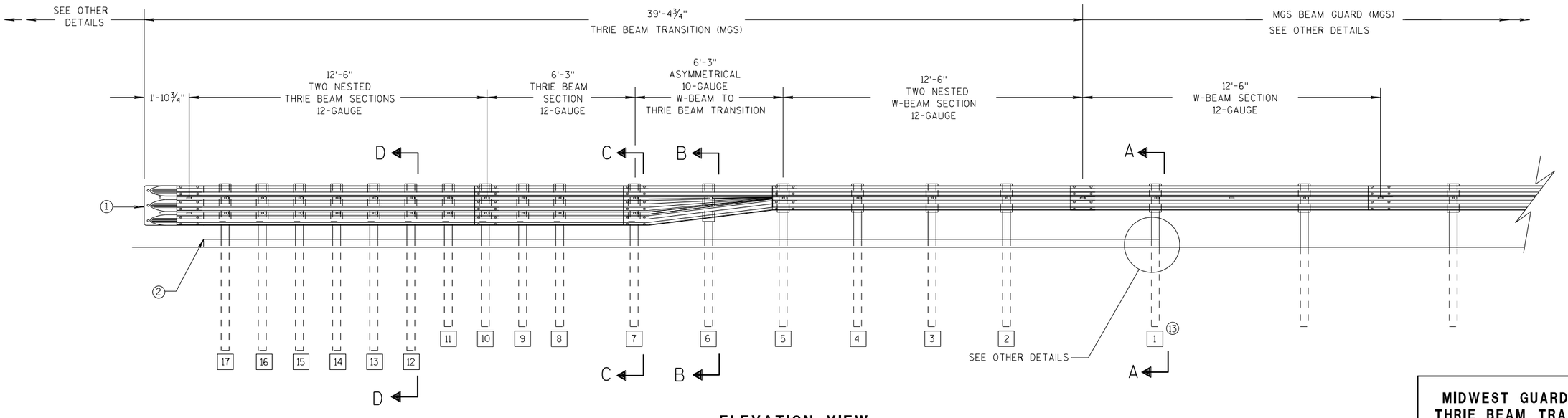
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD14B42



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 45-5a

GENERAL NOTES

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

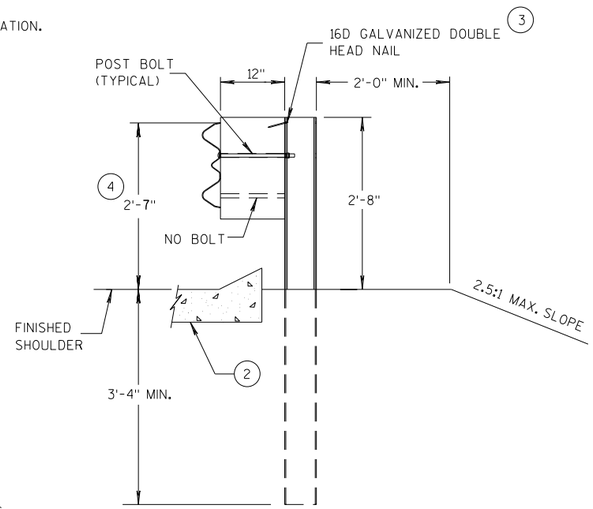
(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42

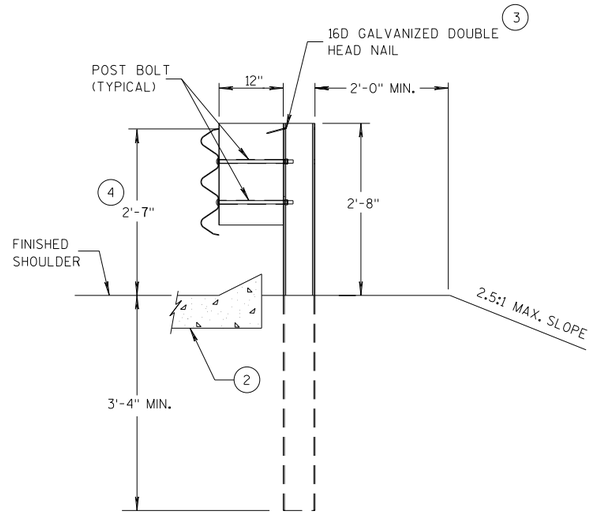
SECTION A-A (13)

POSTS 1-5



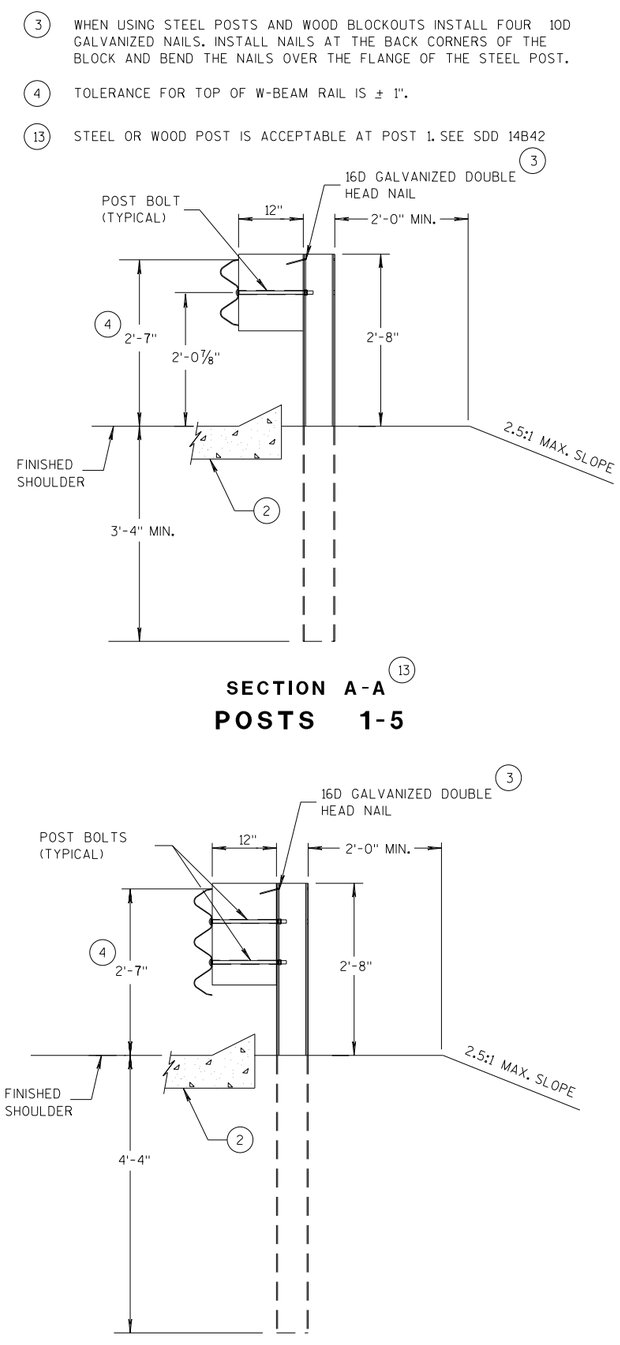
SECTION B-B

POST 6



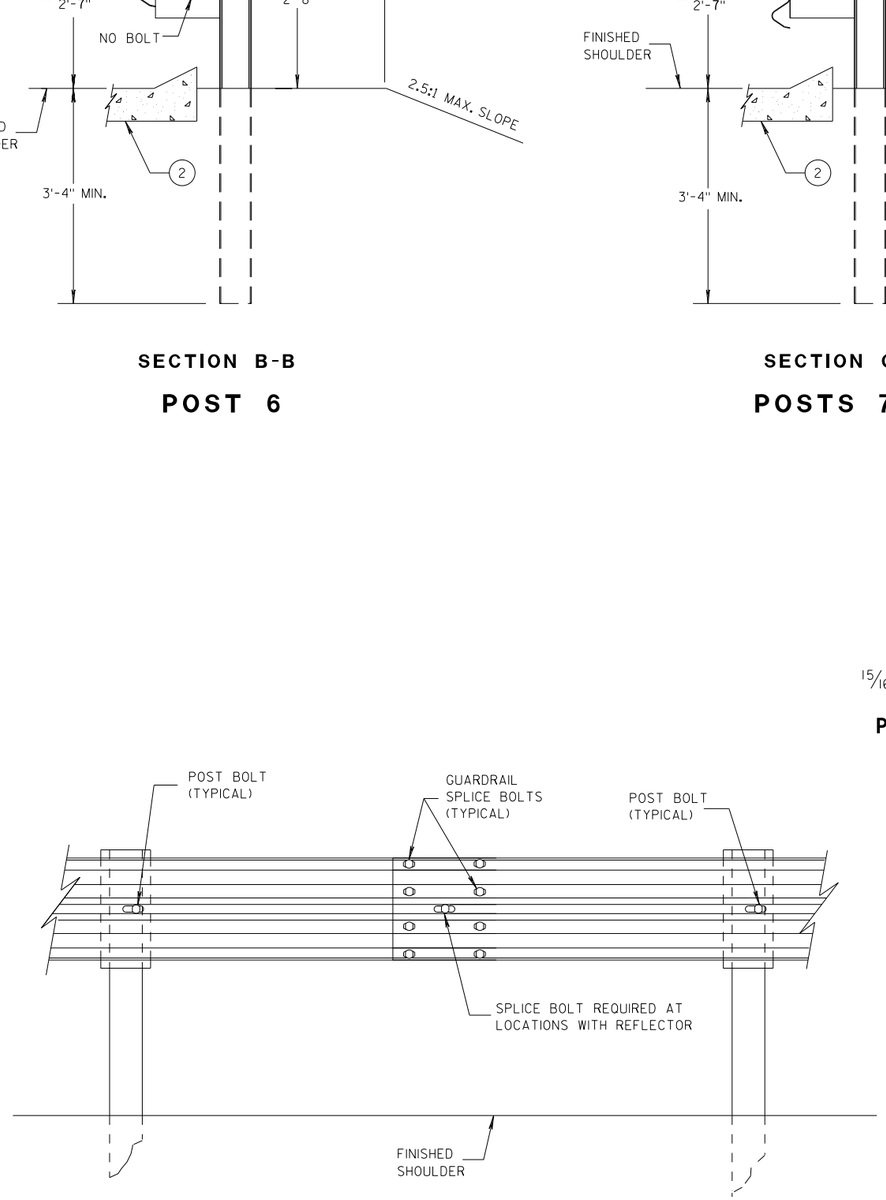
SECTION C-C

POSTS 7-11



SECTION D-D

POSTS 12-17



SPLICE DETAIL

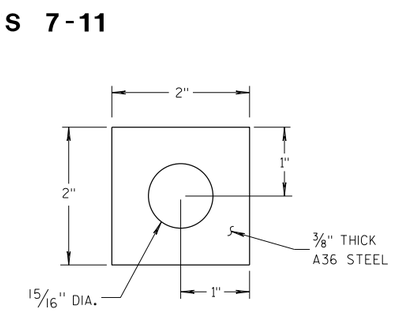
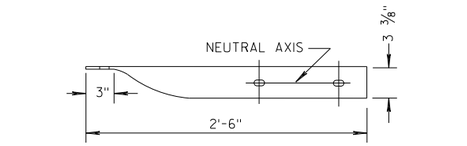
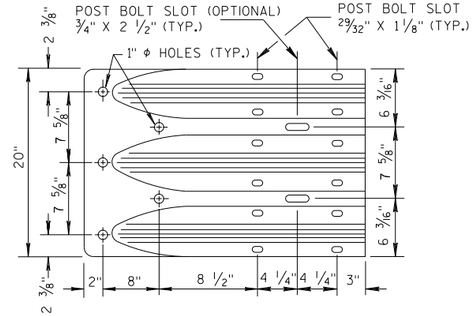
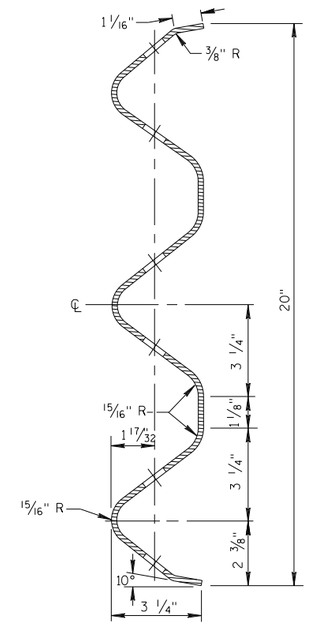


PLATE WASHER DETAIL





THRIE BEAM TERMINAL CONNECTOR



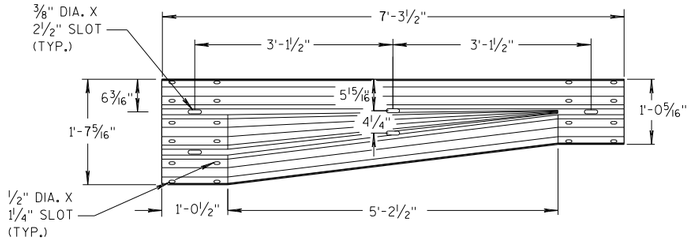
SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

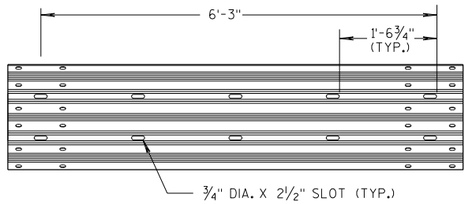
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF

6

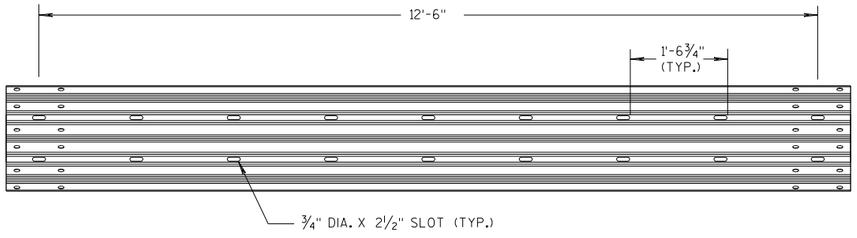
S.D.D. 14 B 45-5b



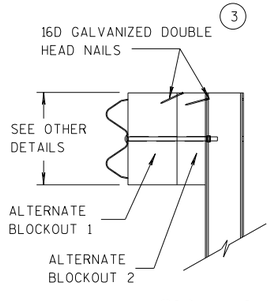
W-BEAM TO THRIE BEAM TRANSITION SECTION



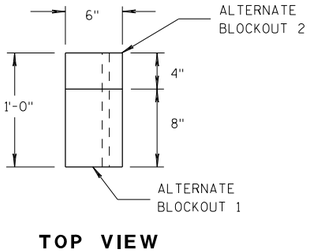
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

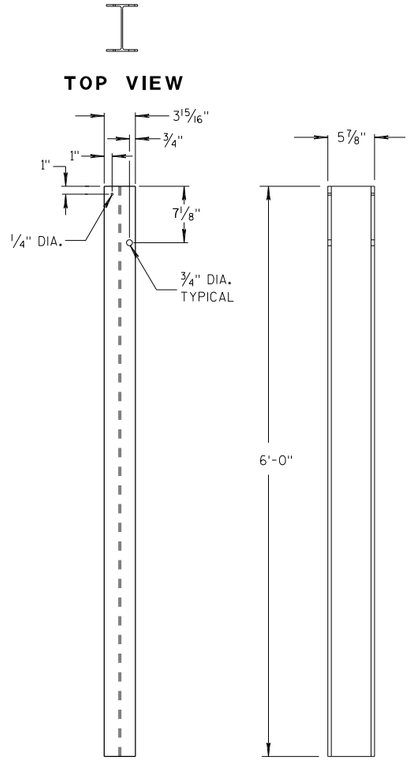


SIDE VIEW



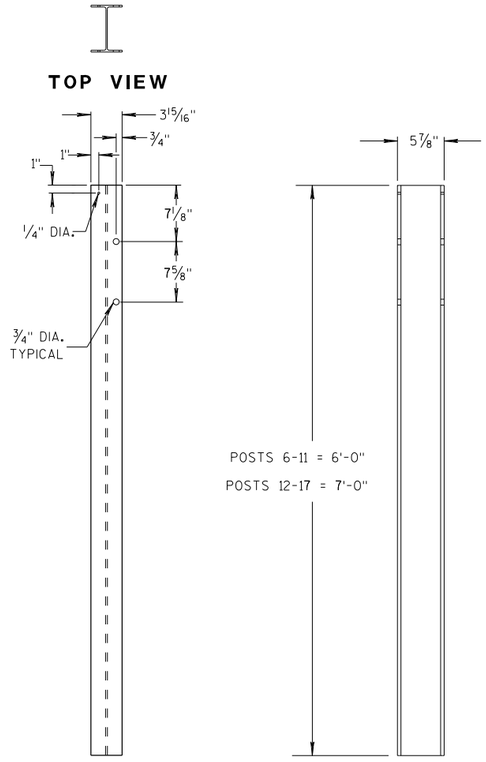
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



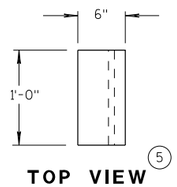
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

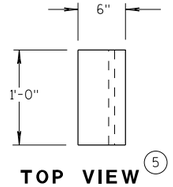


FRONT VIEW SIDE VIEW

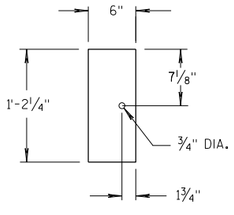
STEEL POSTS 6-17



TOP VIEW (5)

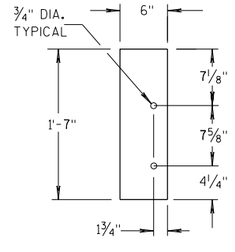


TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

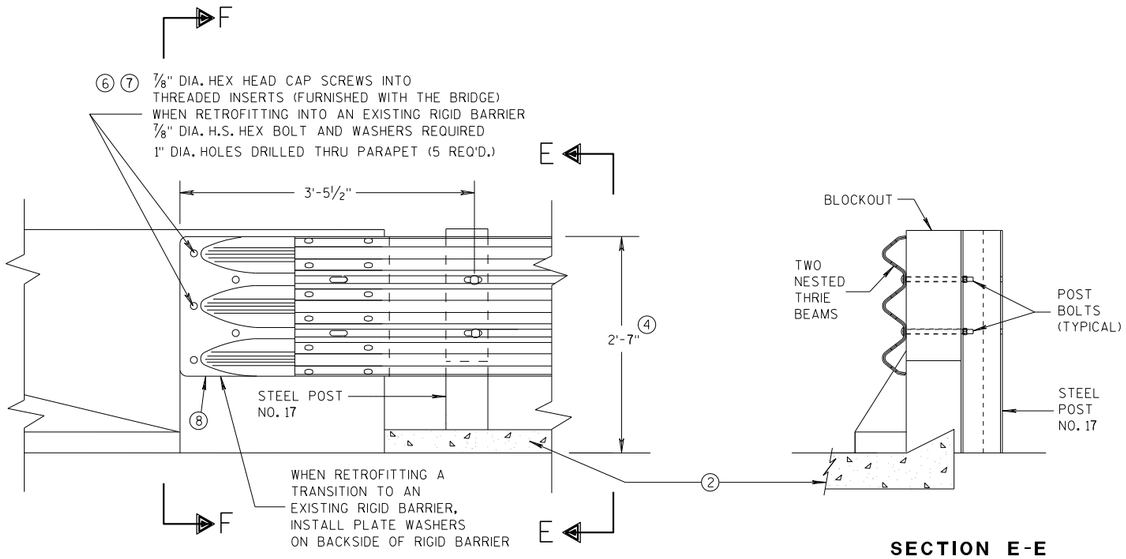
(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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S.D.D. 14 B 45-5c



FRONT VIEW

SECTION E-E

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

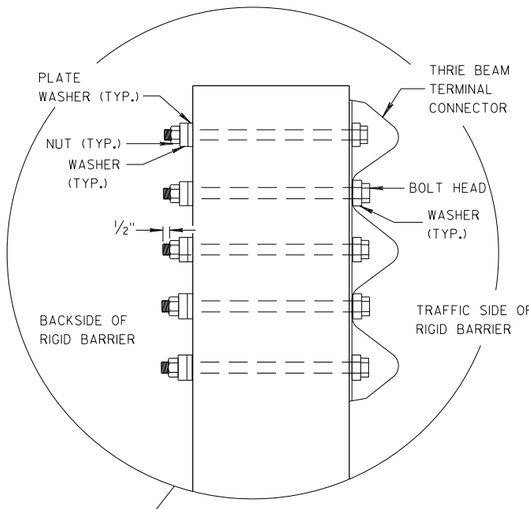
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

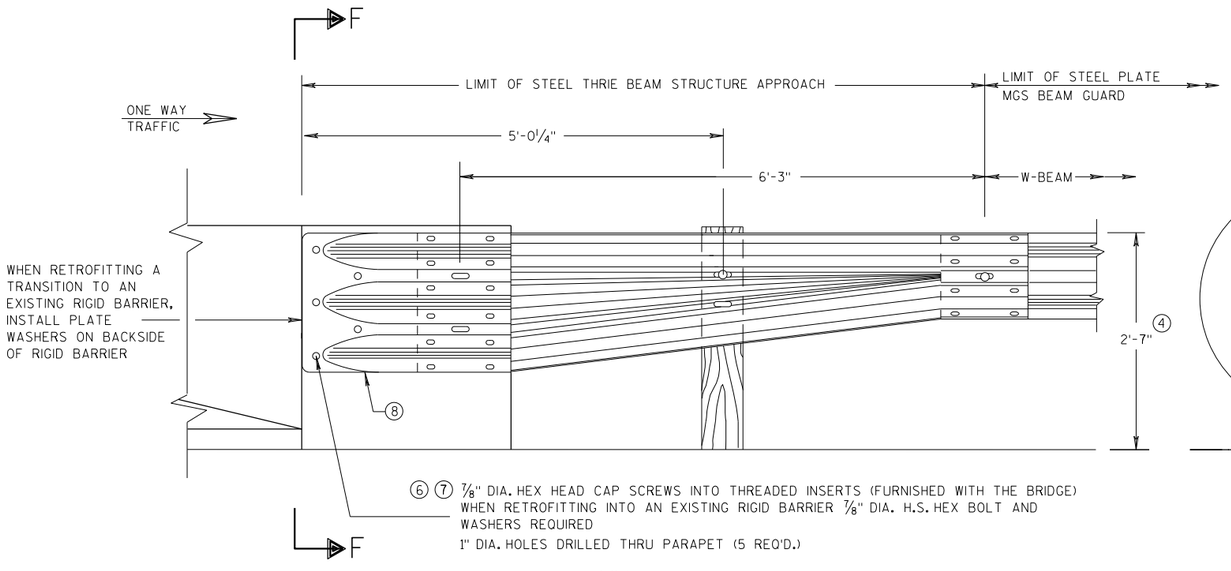
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

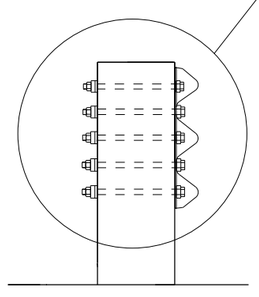
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

⑧ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

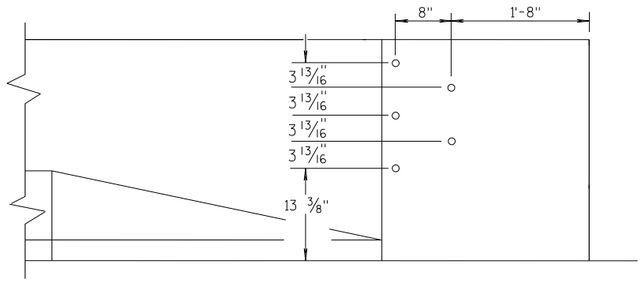




FRONT VIEW



SECTION F-F



DRILL HOLE LOCATION

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS D[illegible] UNIT SUPERVIS[illegible]
FHWA

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S.D.D. 14 B 45-5d

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S.D.D. 14 B 45-5d

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

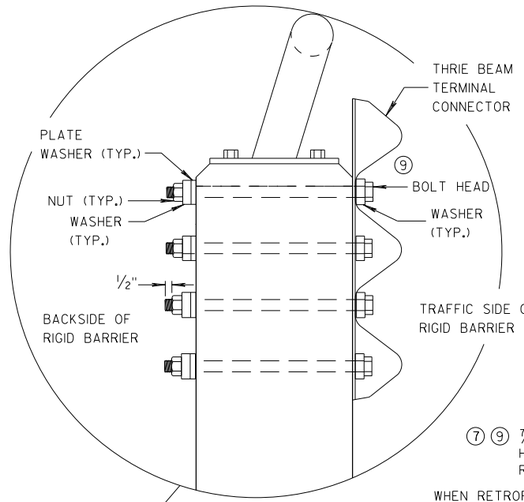
(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

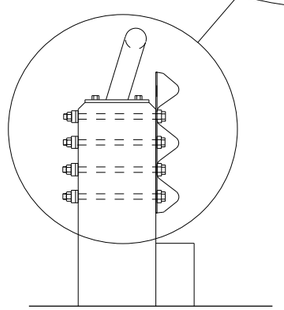
(6) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

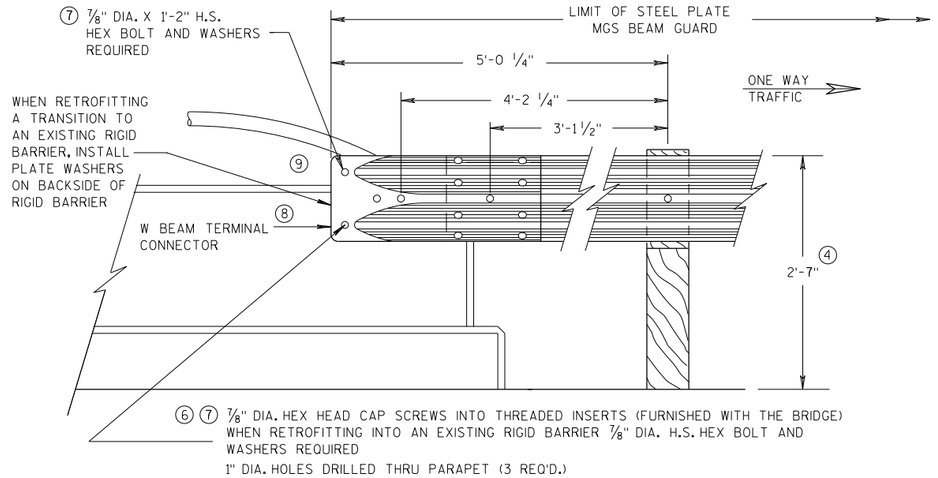
(8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 ½".

(9) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.





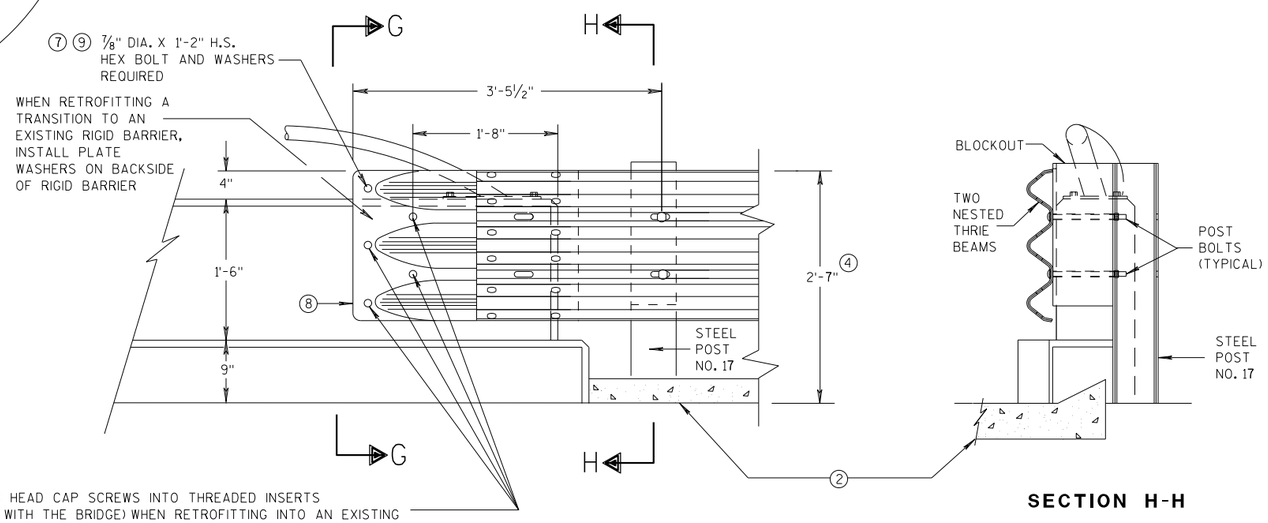
SECTION G-G



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)



FRONT VIEW

SECTION H-H

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

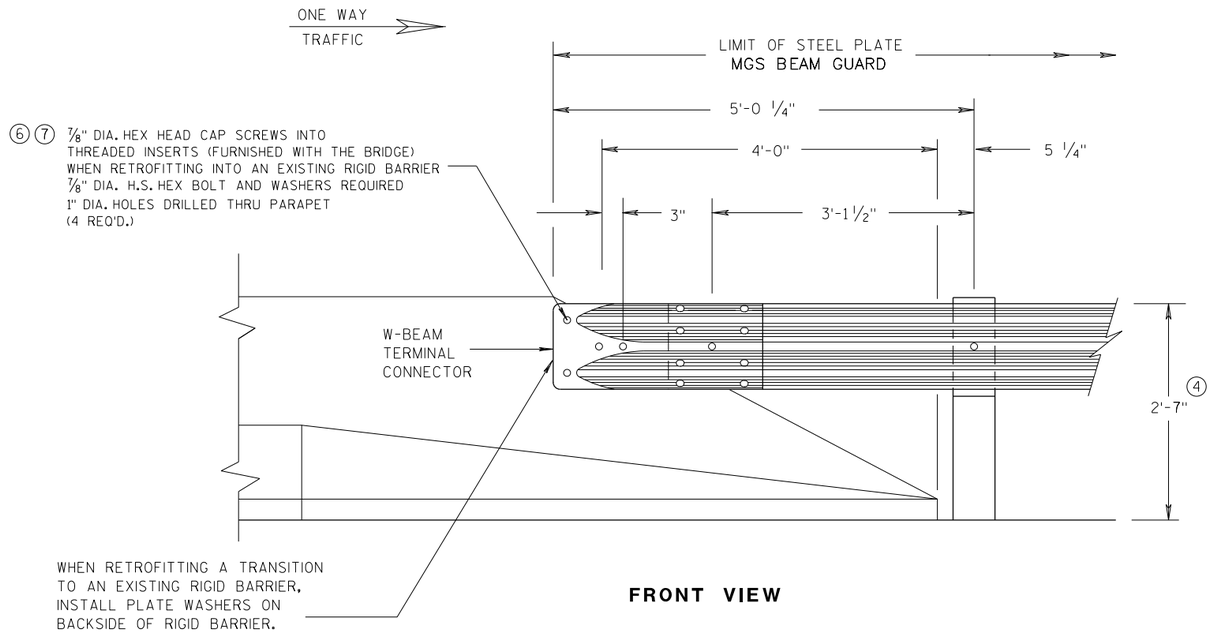
APPROVED
07/2018 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D UNIT SUPERVI
FHWA

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S.D.D. 14 B 45-5e

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S.D.D. 14 B 45-5e



FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

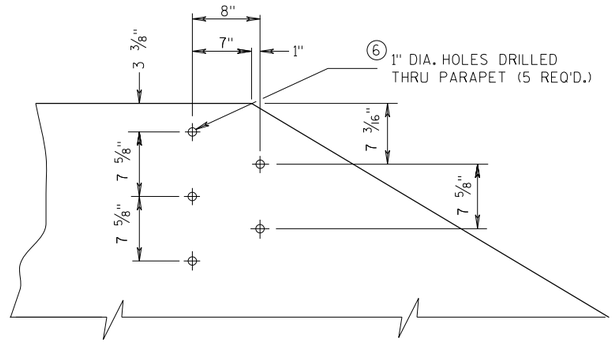
GENERAL NOTES

② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

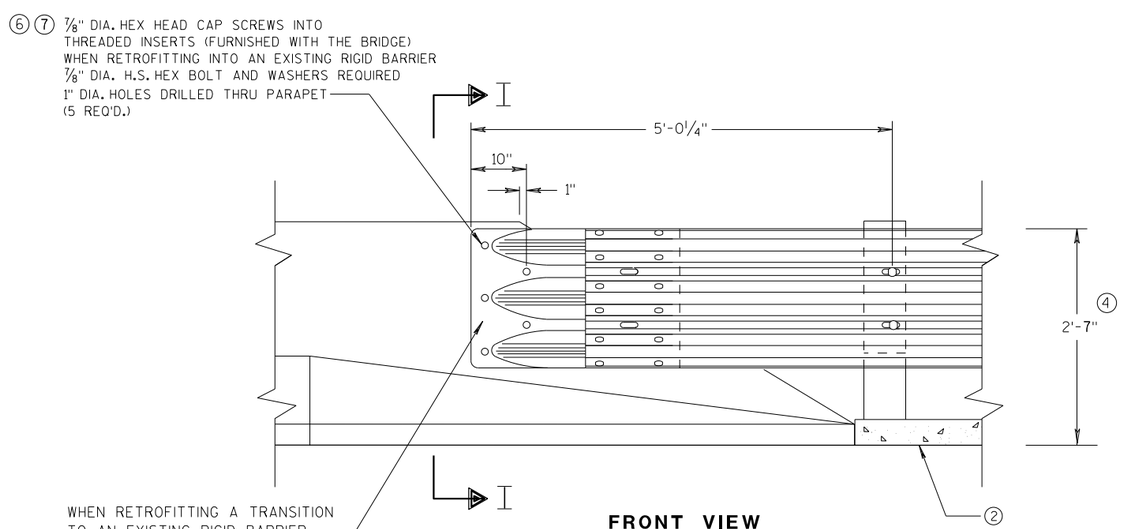
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

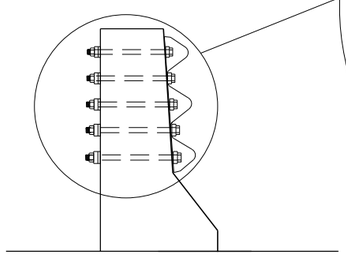
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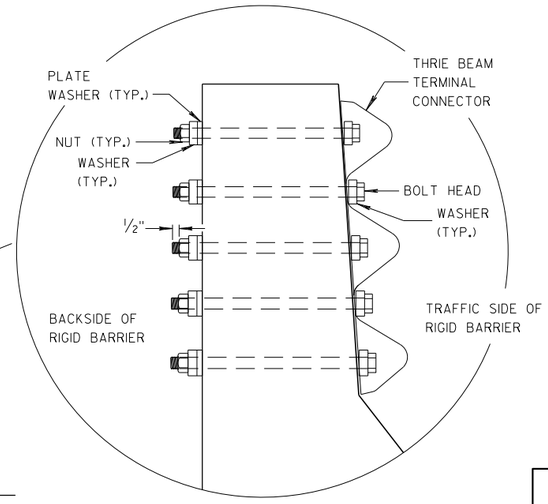
DRILL HOLE LOCATION AND PATTERN
FOR THRIE BEAM CONNECTION



FRONT VIEW



SECTION I-I



THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

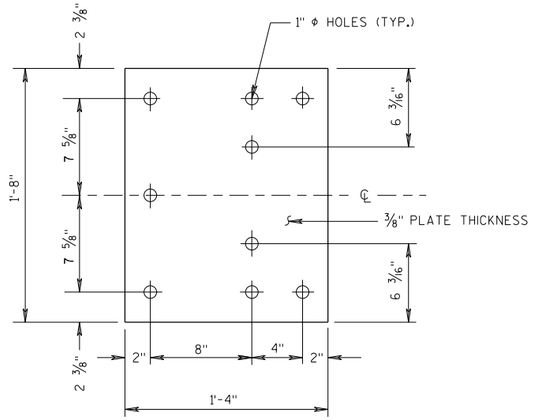
APPROVED
07/2018 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS [illegible] UNIT SUPERVI[illegible]ENT
FHWA

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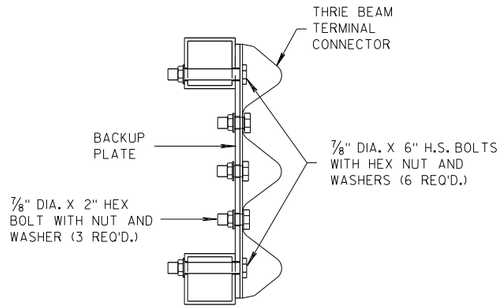
S.D.D. 14 B 45-5f

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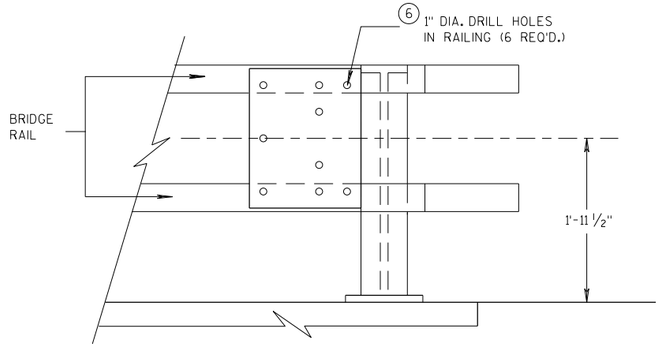
S.D.D. 14 B 45-5f



BACK-UP PLATE DETAIL



SECTION J-J

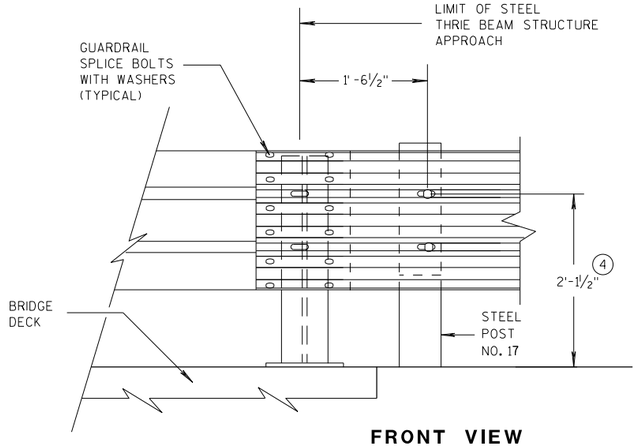


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

GENERAL NOTES

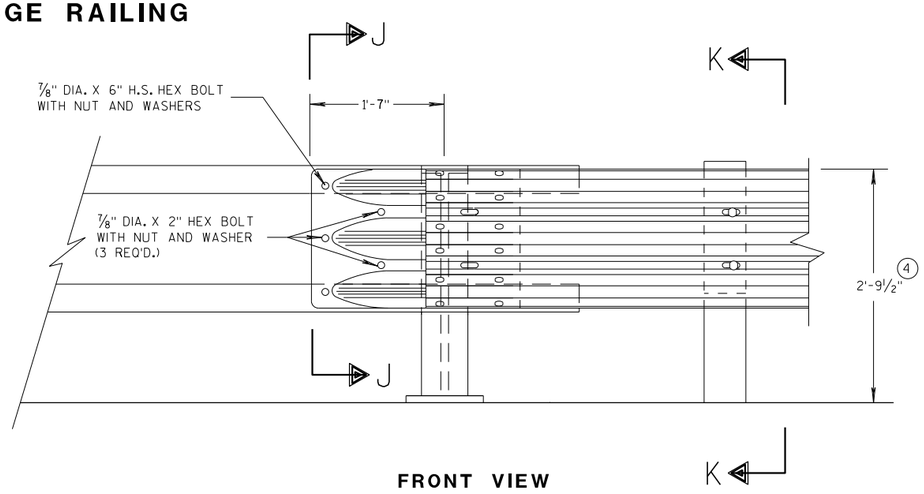
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING HOLES THROUGH THE PAPRPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

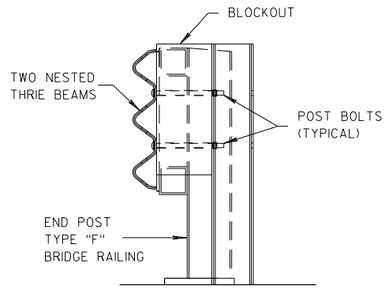


FRONT VIEW

THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



FRONT VIEW



SECTION K-K

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED 07/2018 — DATE
FHWA

/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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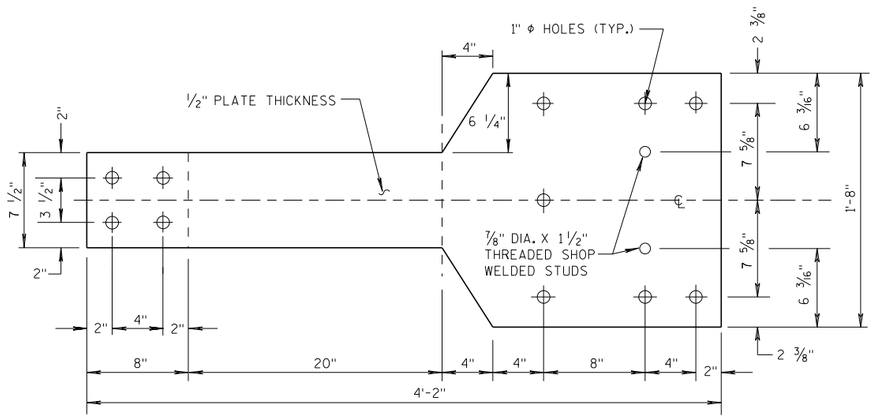
S.D.D. 14 B 45-5g

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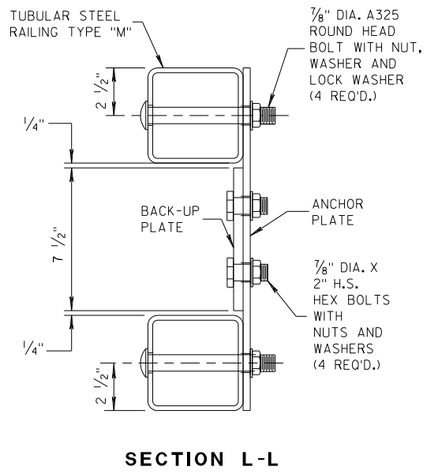
S.D.D. 14 B 45-5g

GENERAL NOTES

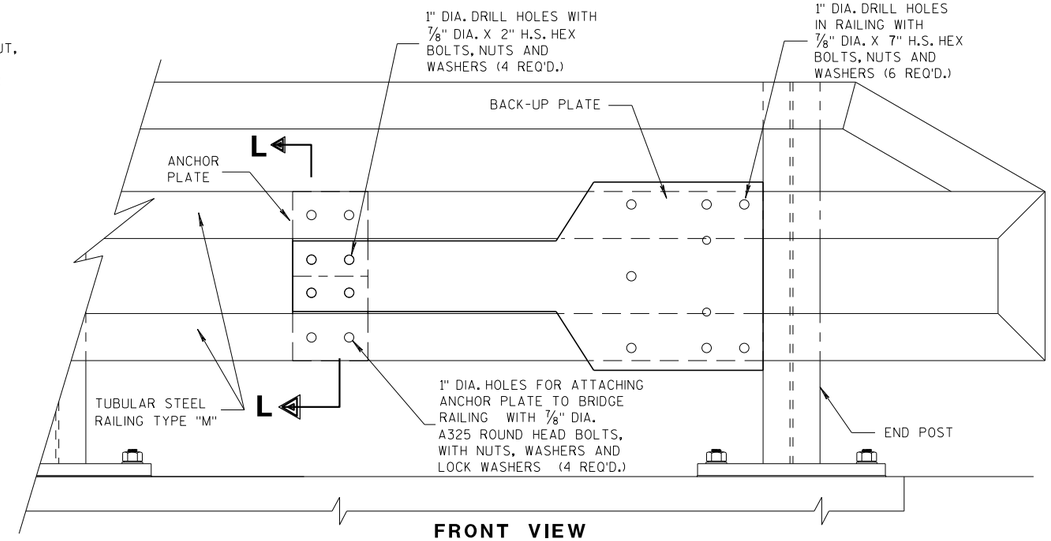
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



FRONT VIEW

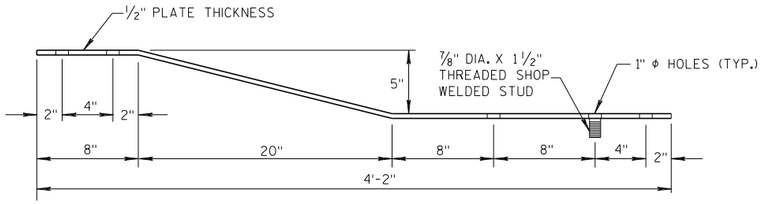


SECTION L-L



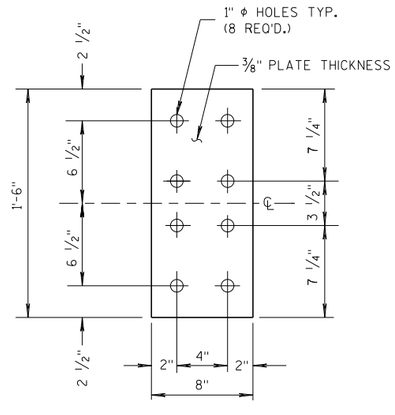
FRONT VIEW

ANCHOR AND BACK-UP PLATE MOUNTING TO BRIDGE RAILING, TYPE "M"



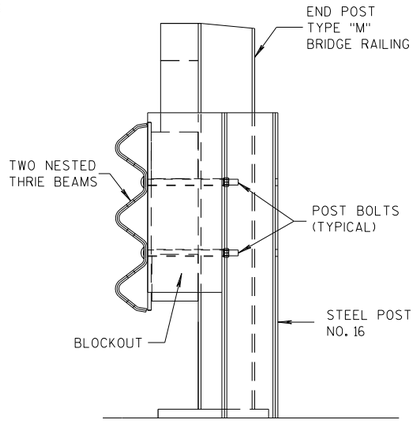
PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

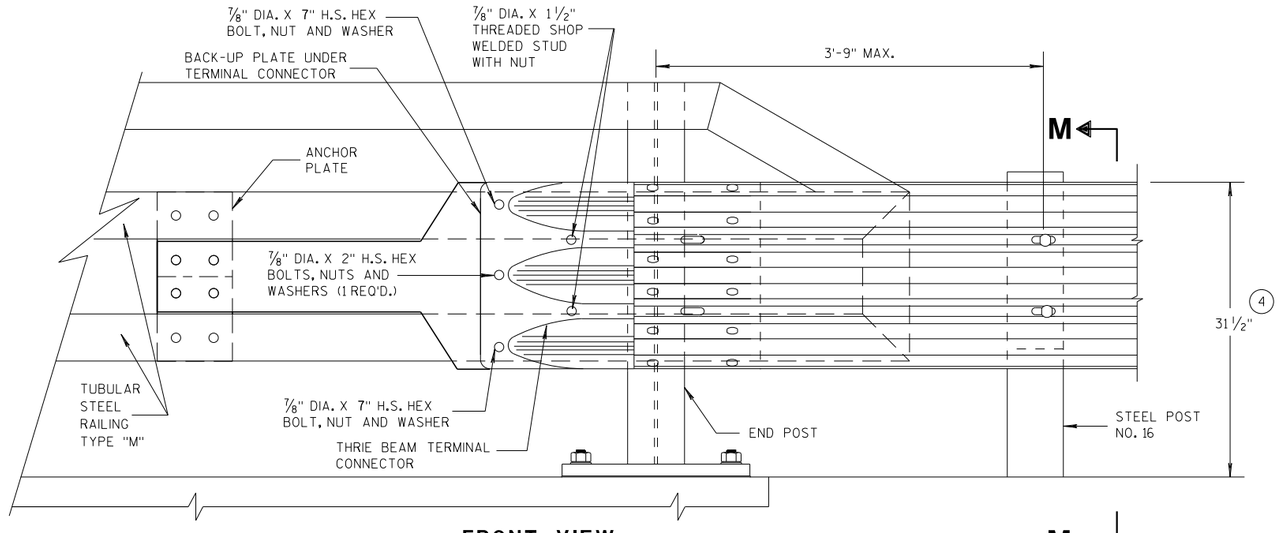


FRONT VIEW

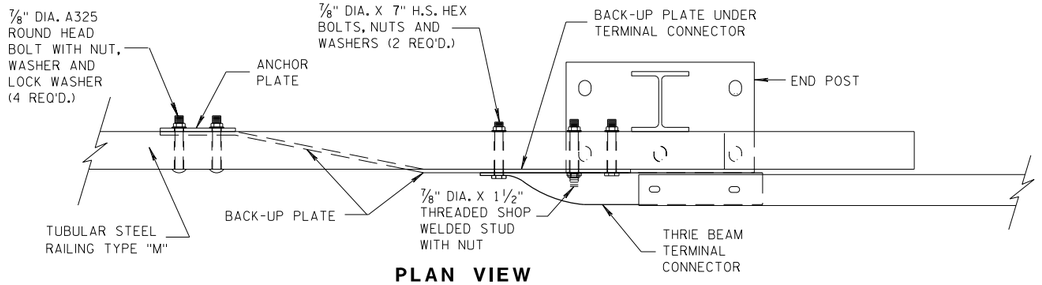
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

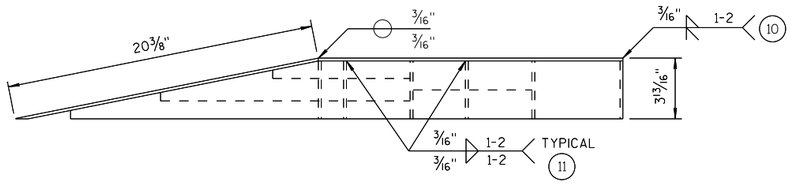
APPROVED
07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

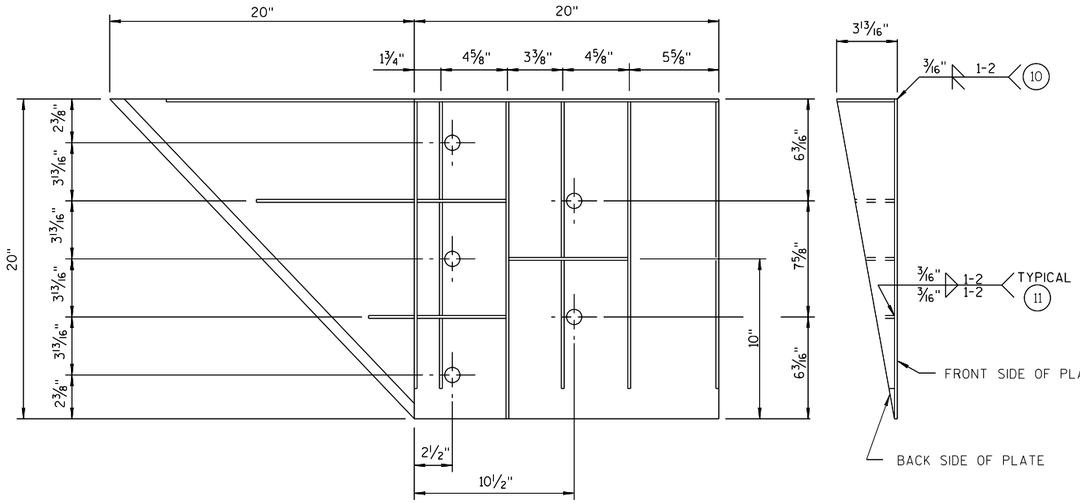
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S.D.D. 14 B 45-5h

6

S.D.D. 14 B 45-5h





WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

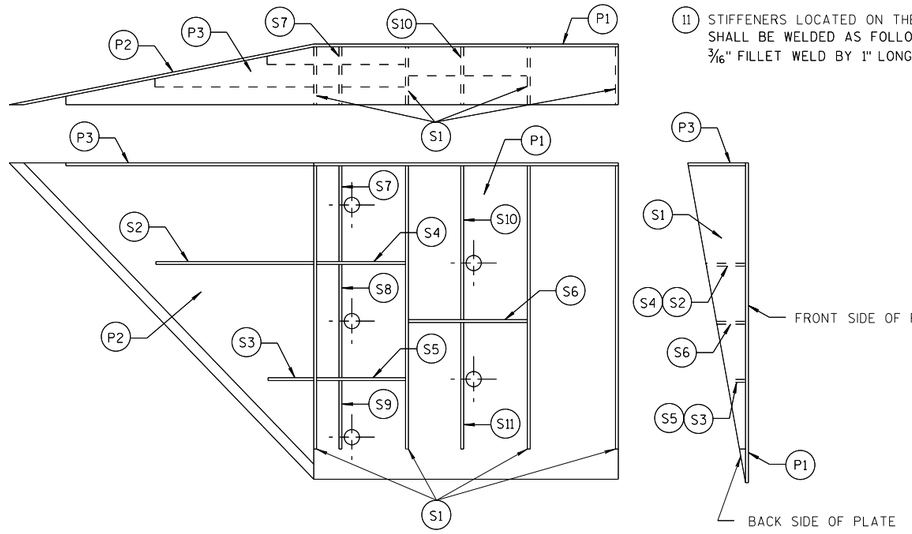


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(10) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(11) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 5/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 3/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

SINGLE SLOPE CONNECTION PLATE

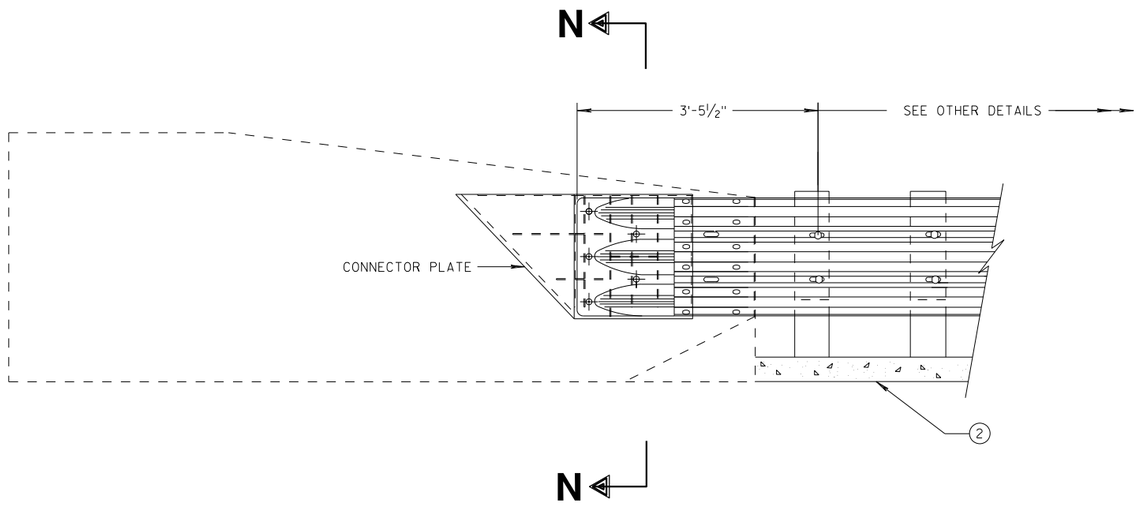
MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

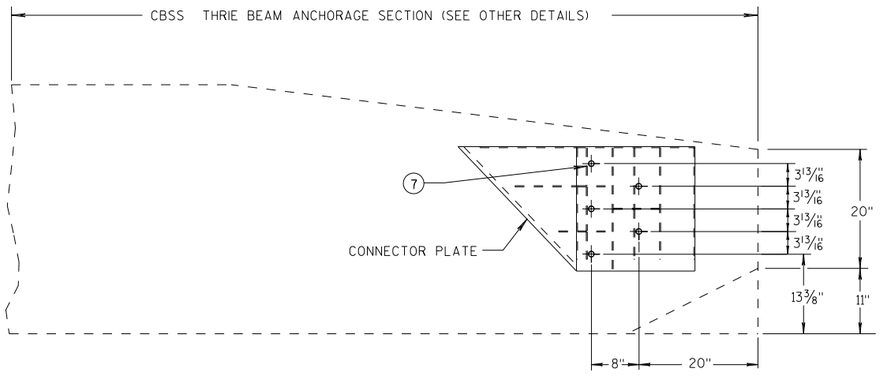
APPROVED
7/2018
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS I
UNIT SUPERVI

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S.D.D. 14 B 45-5i



THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER



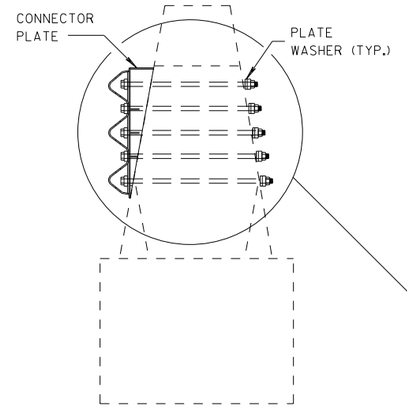
SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

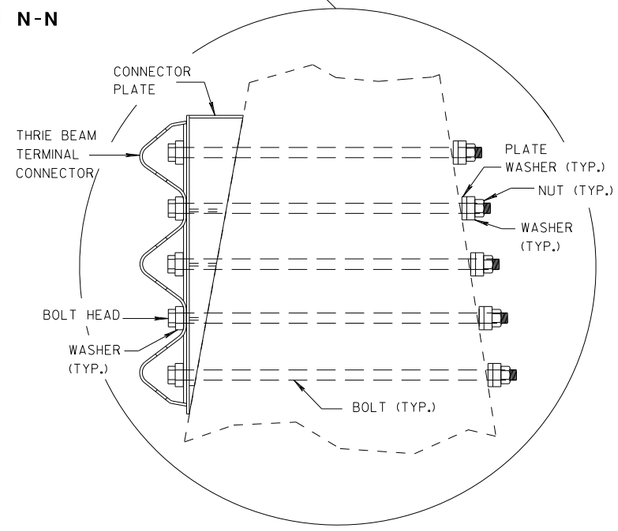
CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



SECTION N-N



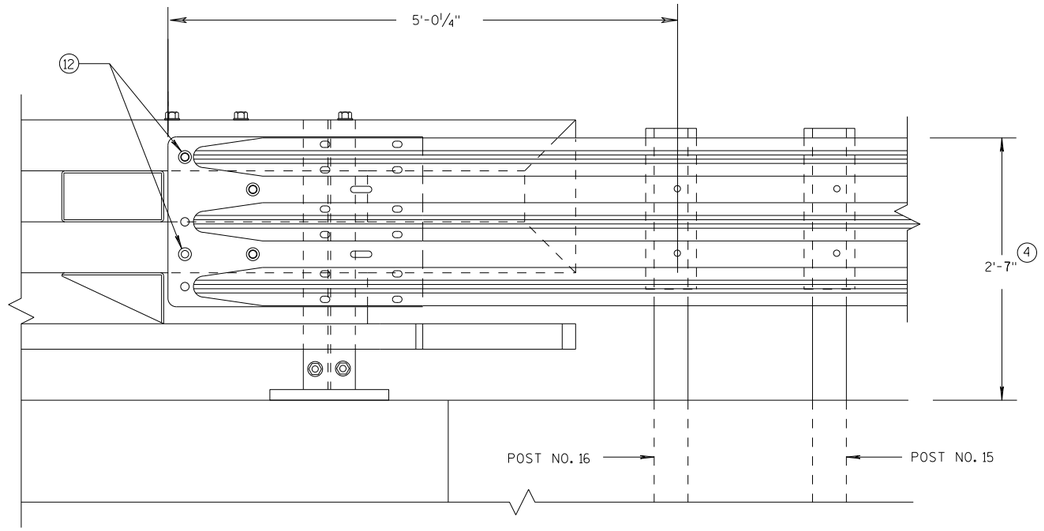
MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Rodney Taylor
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FHWA

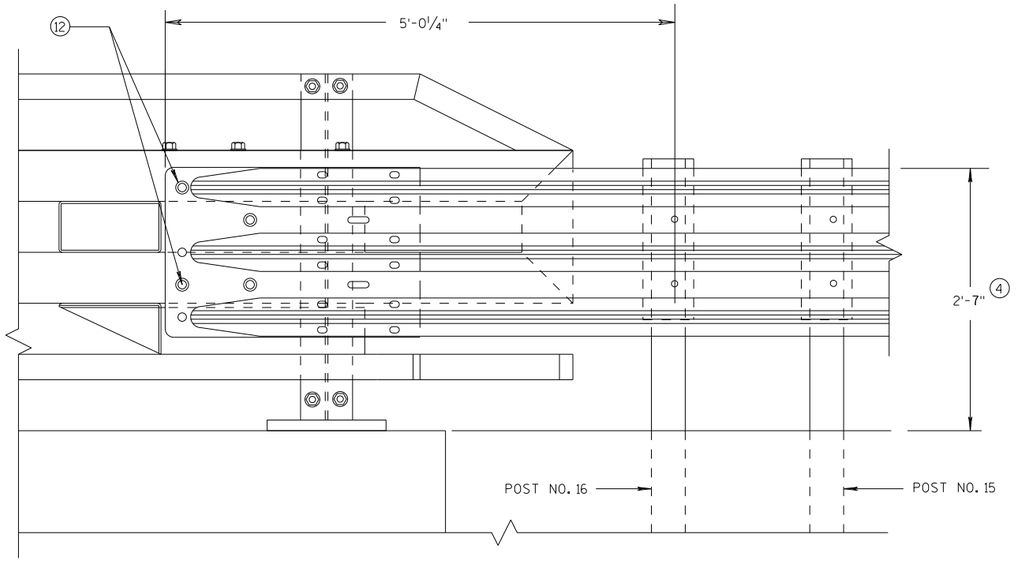
6

S.D.D. 14 B 45-5j



ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
FHWA

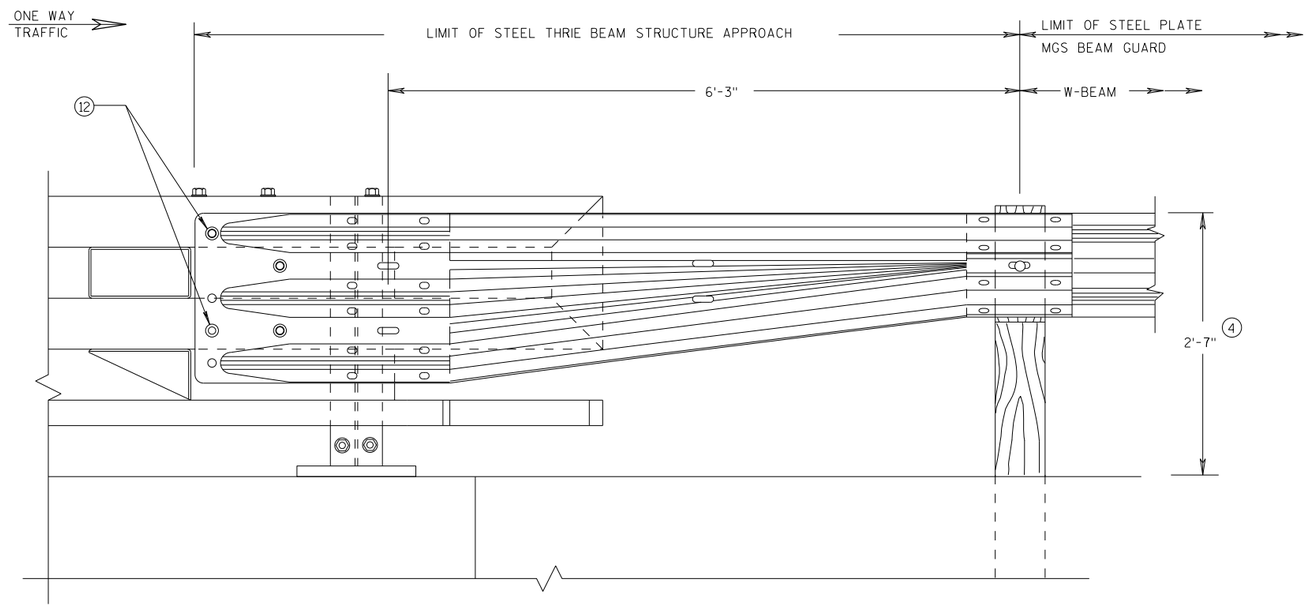
/S/ Rodney Taylor
ROADWAY STANDARDS D 313 NT
UNIT SUPERVIS

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S.D.D. 14 B 45-5k

6

S.D.D. 14 B 45-5k



FRONT VIEW

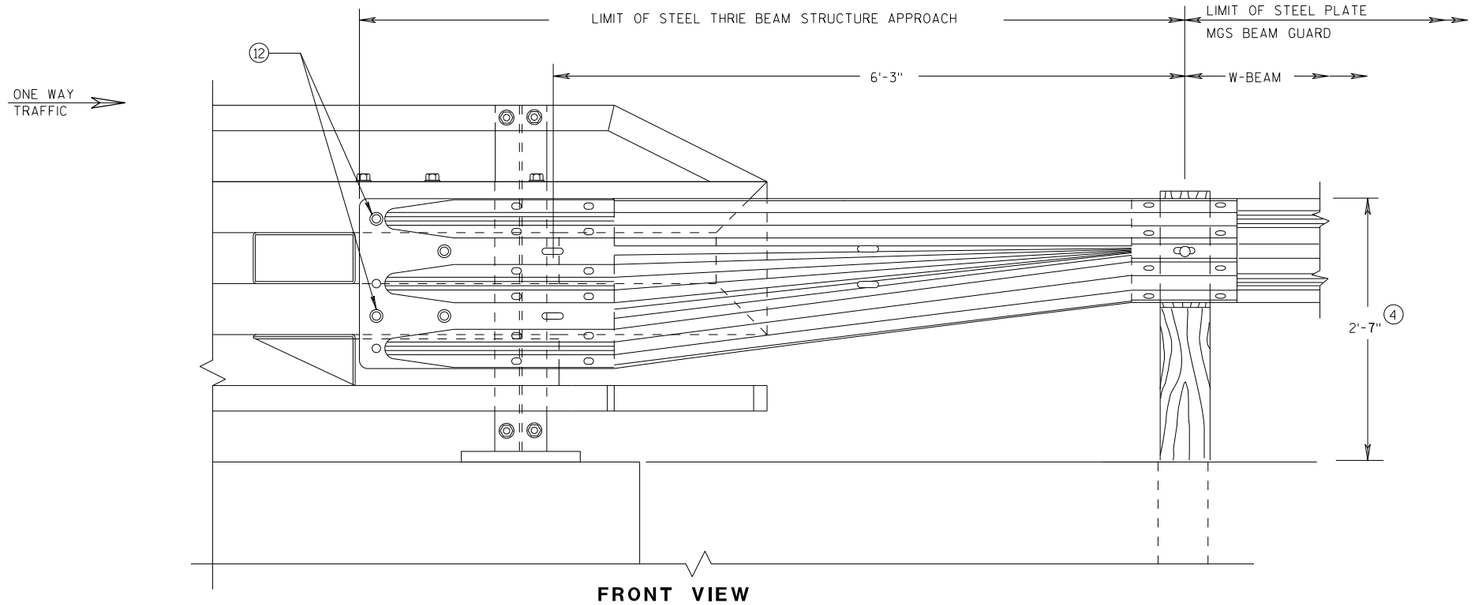
W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY3"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.



FRONT VIEW

W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY4"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

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APPROVED
7/2018
DATE
FHWA

/S/ Rodney Taylor
ROADWAY STANDARDS D
UNIT SUPERVIS

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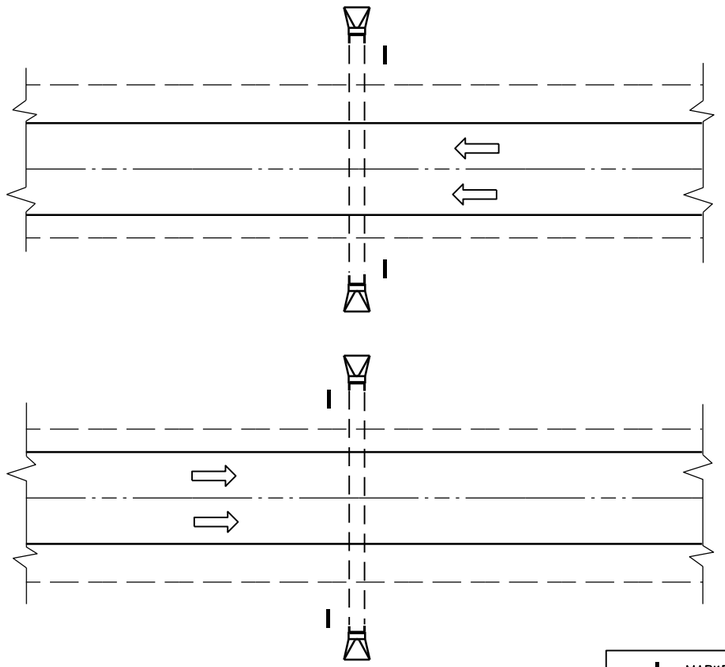
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S.D.D. 14 B 45-5L

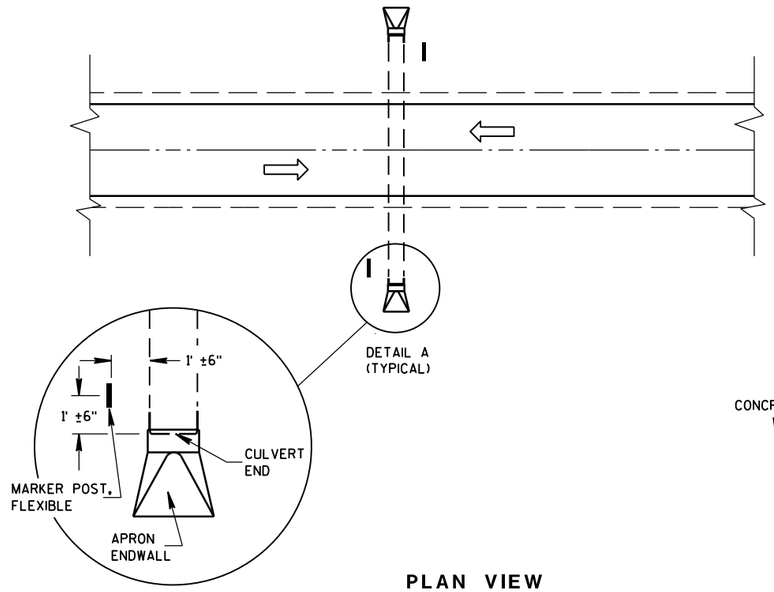
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S.D.D. 14 B 45-5L



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

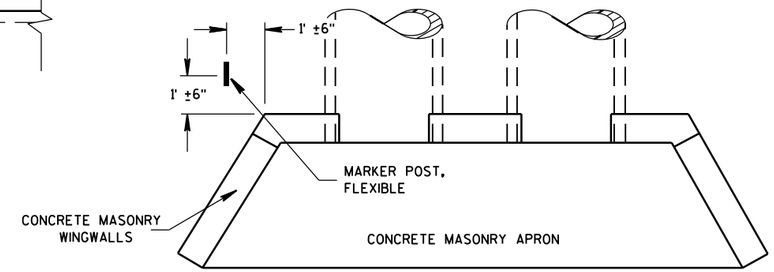
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

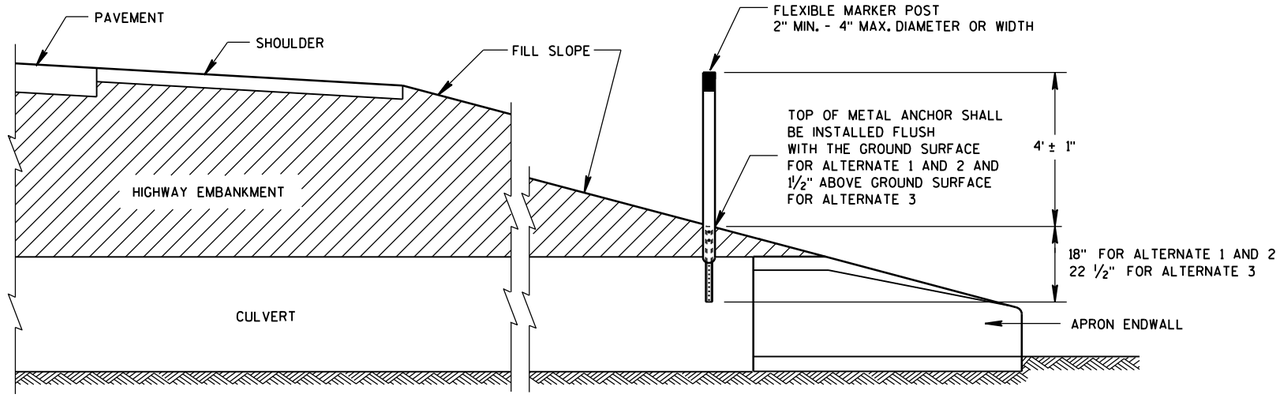
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

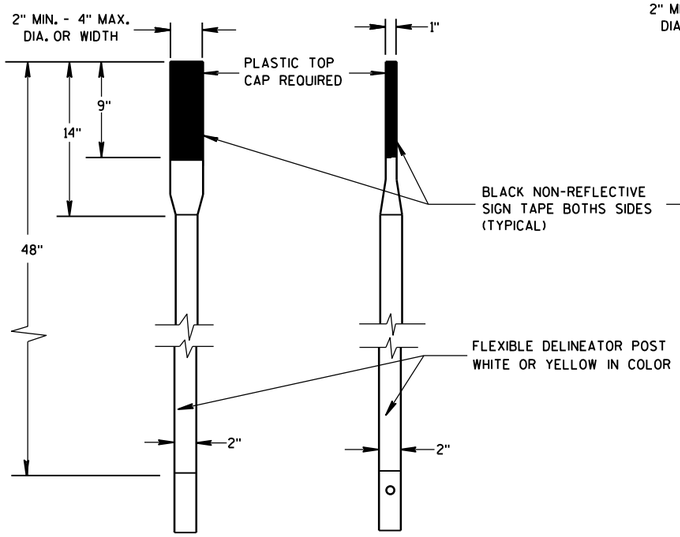
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

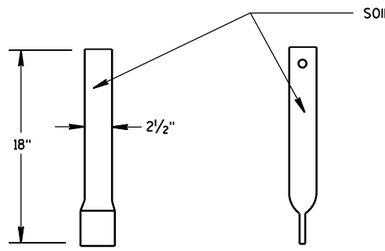
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S.D.D. 15 A 3-2a

6

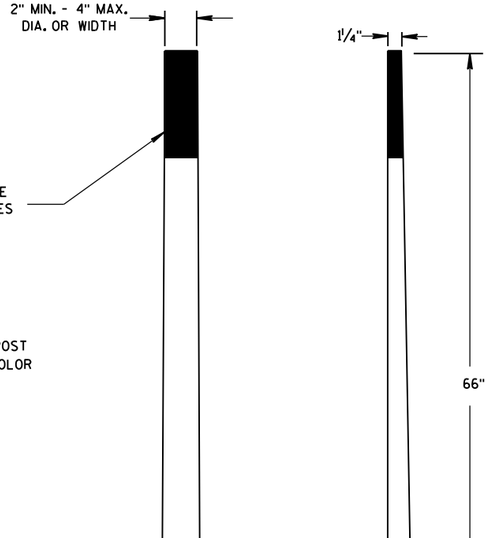
S.D.D. 15 A 3-2a





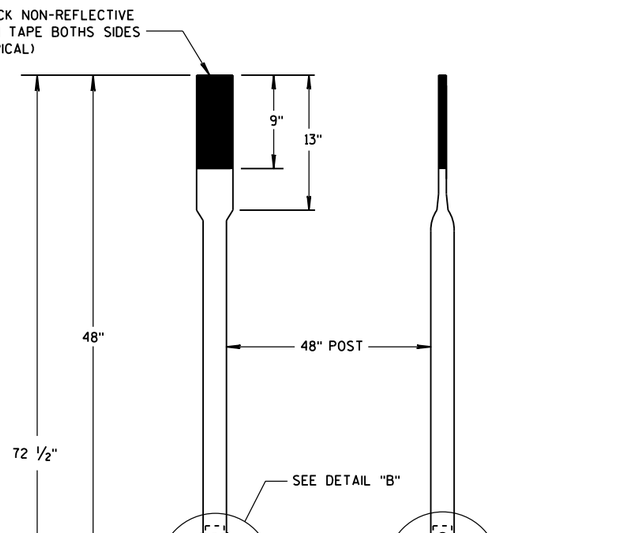
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

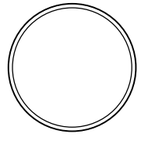
ALTERNATE 2



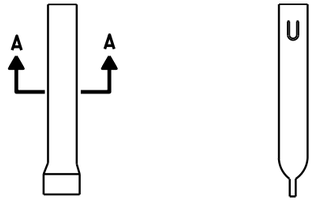
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POSTS

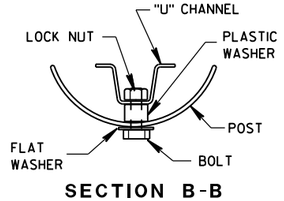


SECTION A-A

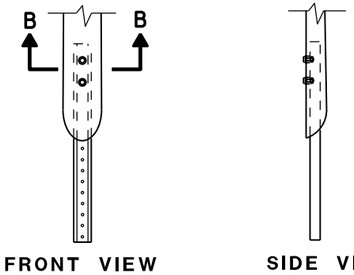


FRONT VIEW SIDE VIEW

ALTERNATE 1

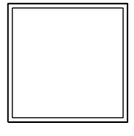


SECTION B-B

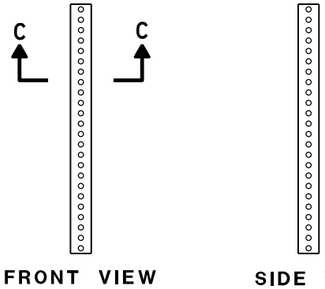


FRONT VIEW SIDE VIEW

ALTERNATE 2



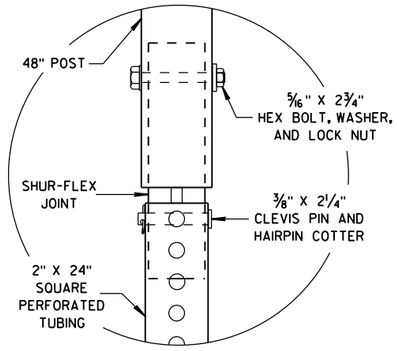
SECTION C-C



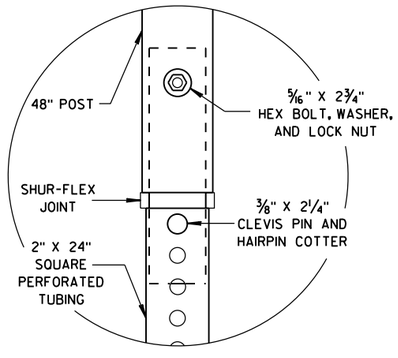
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

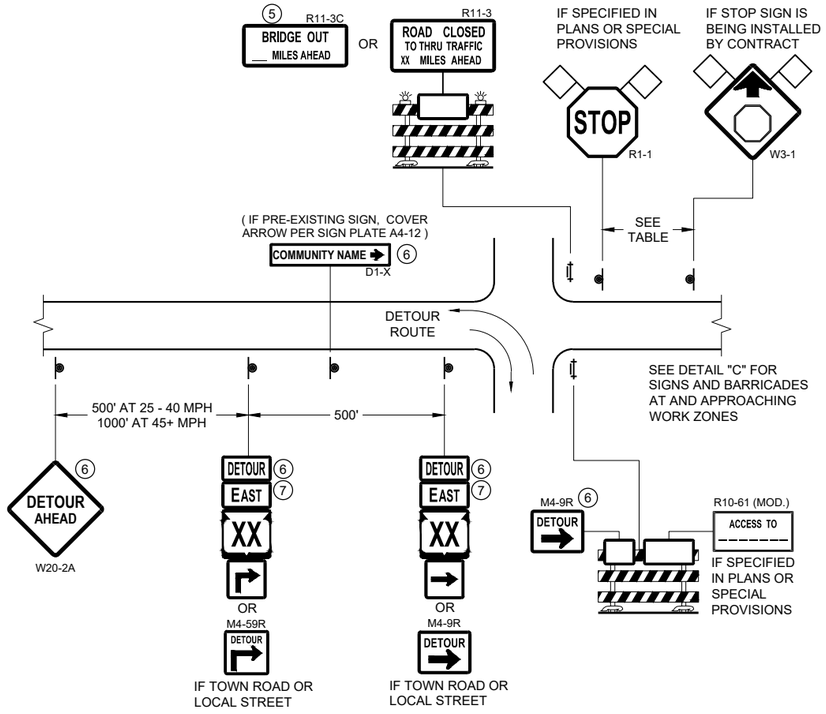
APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

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S.D.D. 15 A 3-2b

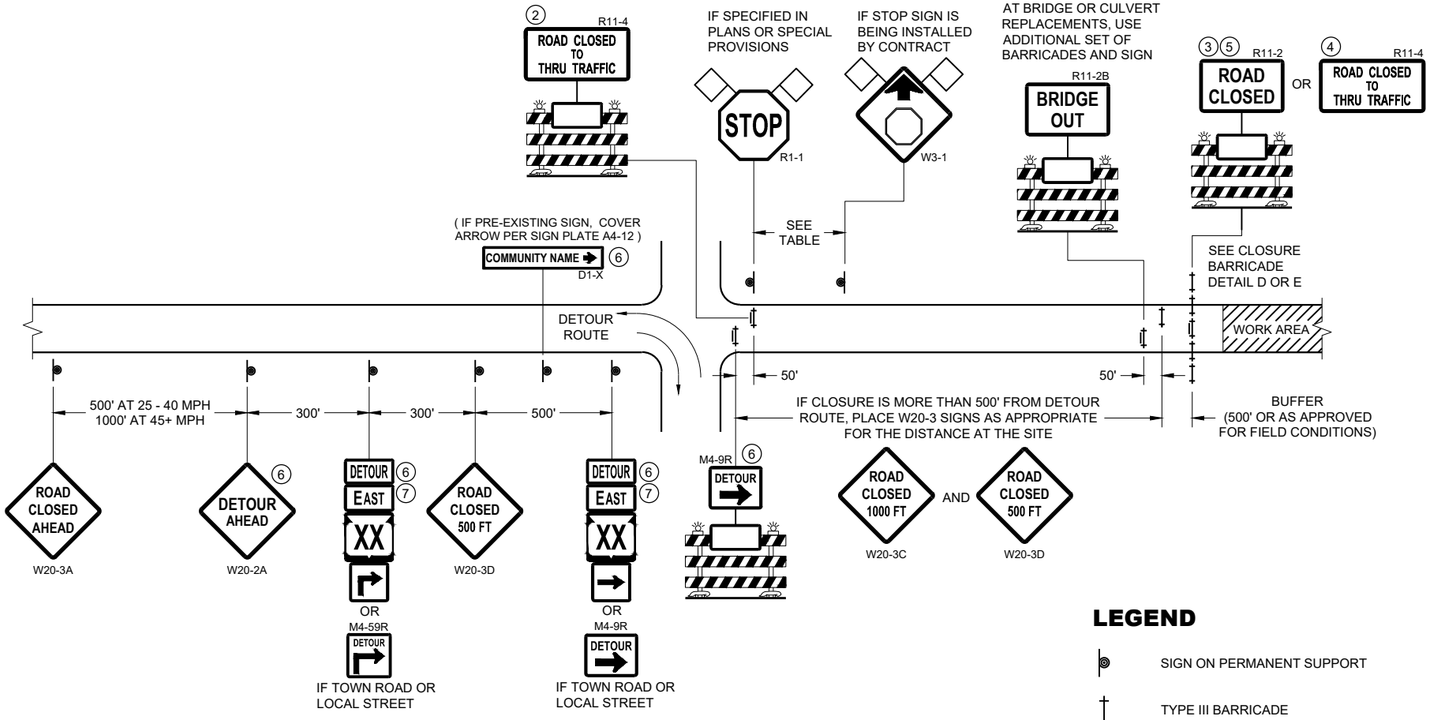
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S.D.D. 15 A 3-2b



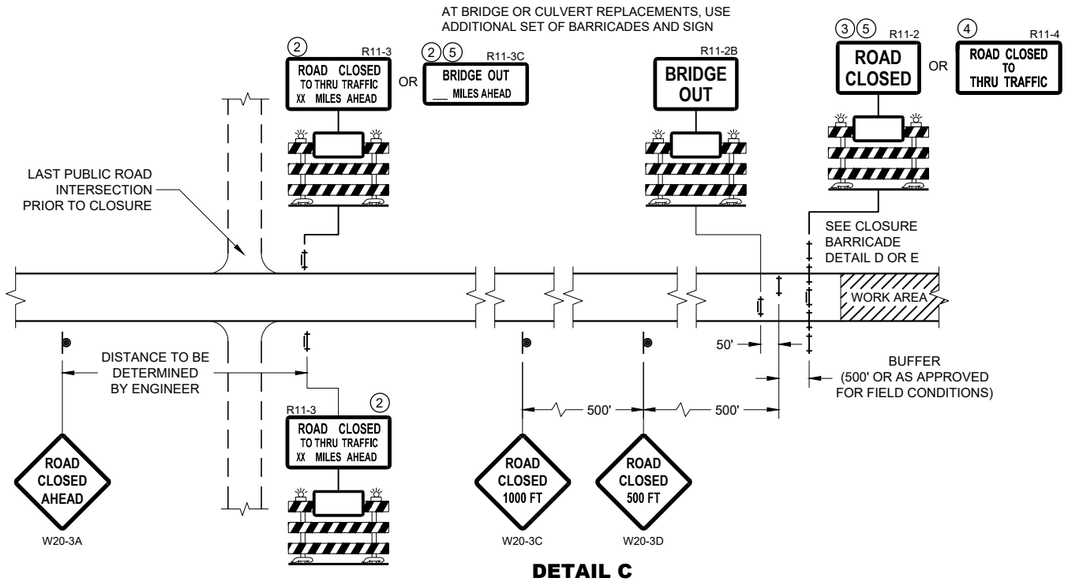
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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

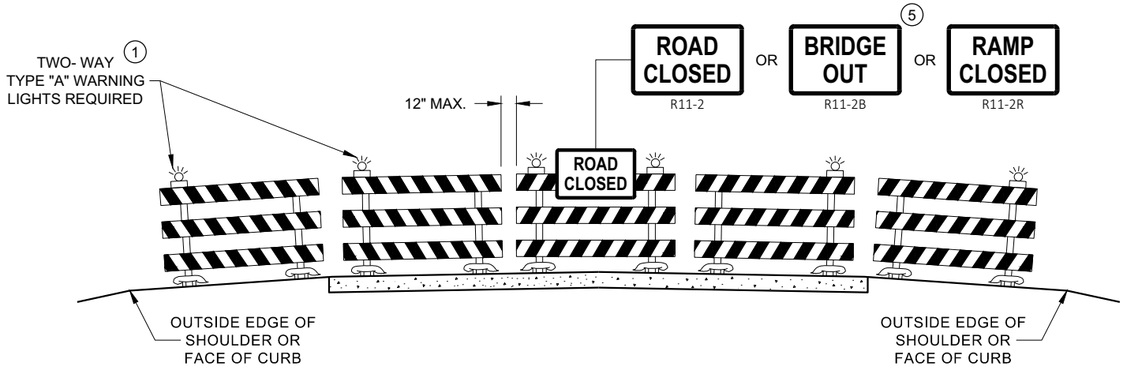
APPROVED
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

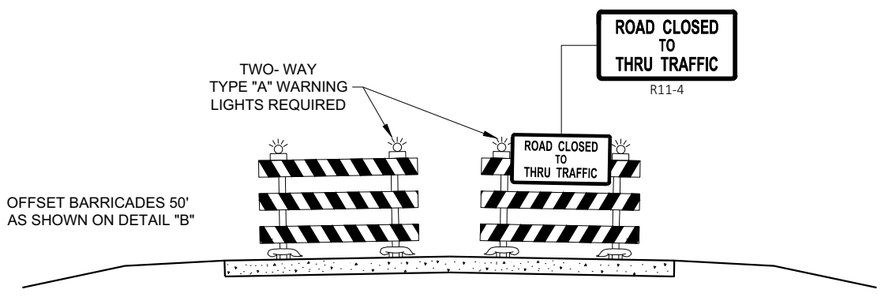
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SDD 15C02 - 08a

SDD 15C02 - 08a



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
February 2020
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

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SDD 15C02 - 08b

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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 / EAST — M4 - 8, 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.

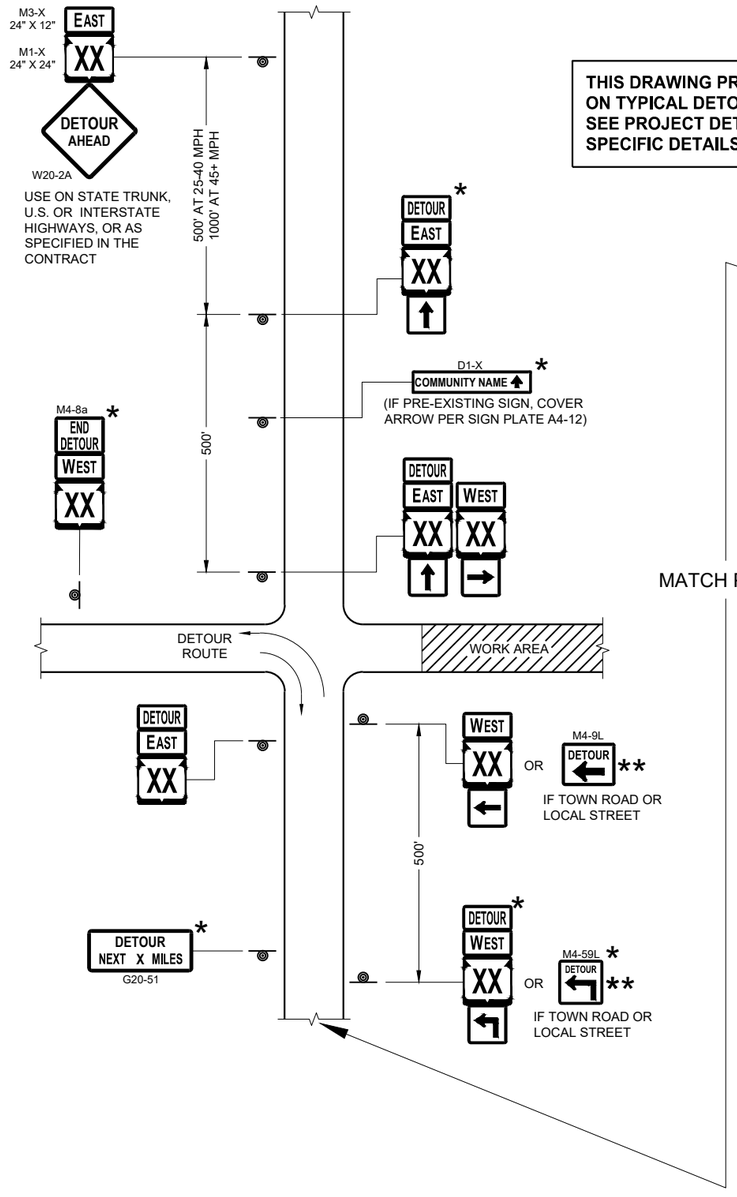
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

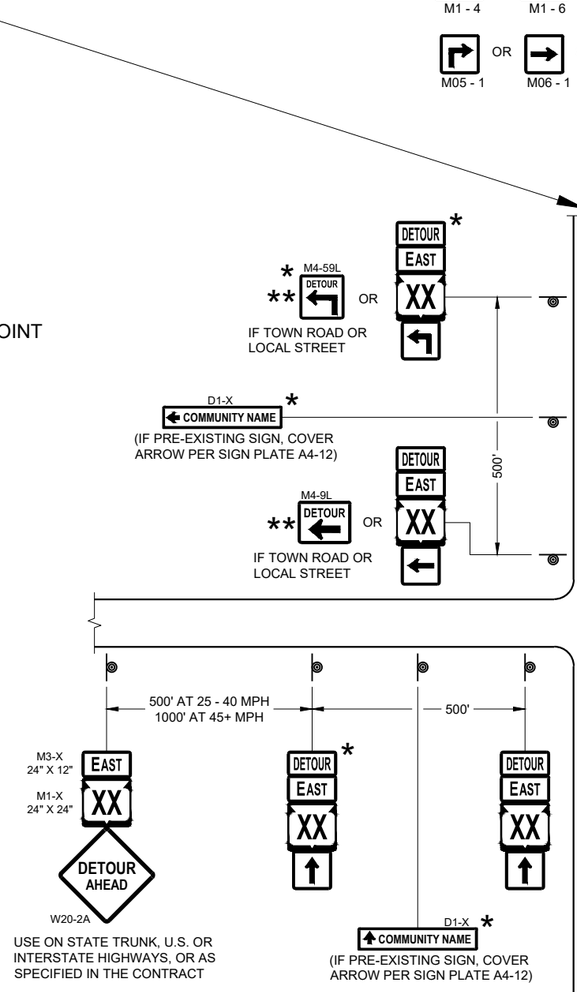
M3-X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
M4-8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
M1-4, M1-5A AND M1-6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
M05-1 AND M06-1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
M4-9 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.

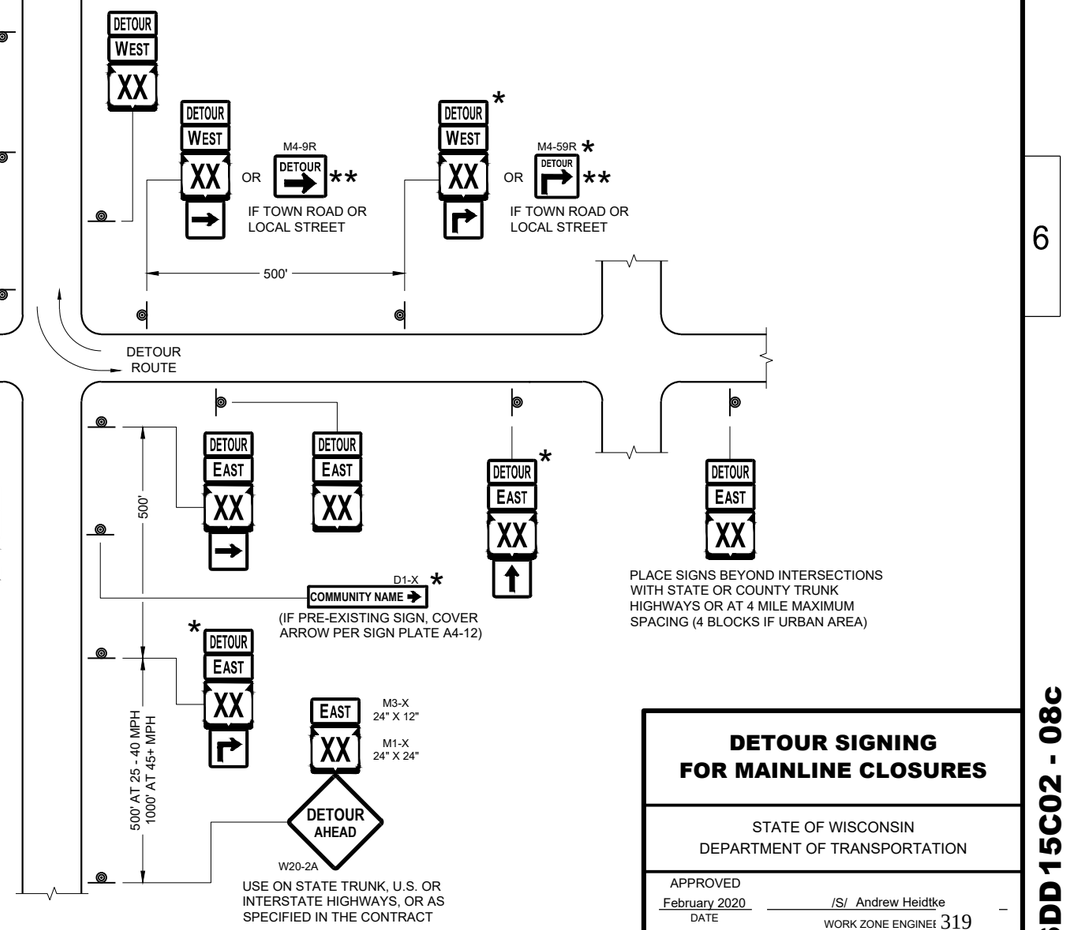
* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** 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.



MATCH POINT





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
February 2020
DATE

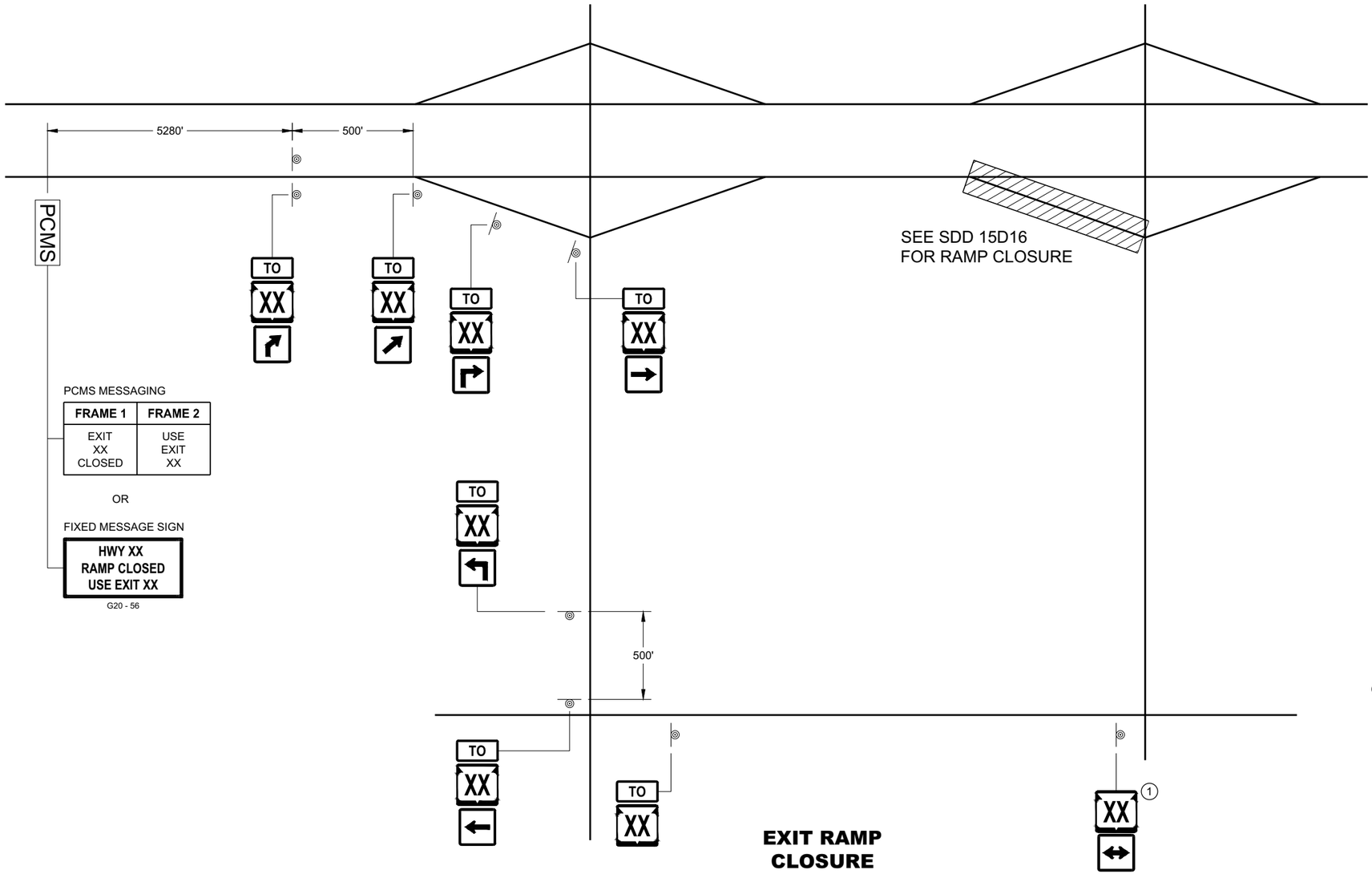
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15C02 - 08c

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THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL "TO" MO-4 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 OR M06 - 4

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" MO-4 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" MO-4 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).

(1) ONLY ADD IF THERE ARE NO EXISTING ROUTE MARKERS FOR THE INTERSECTING ROADWAY.

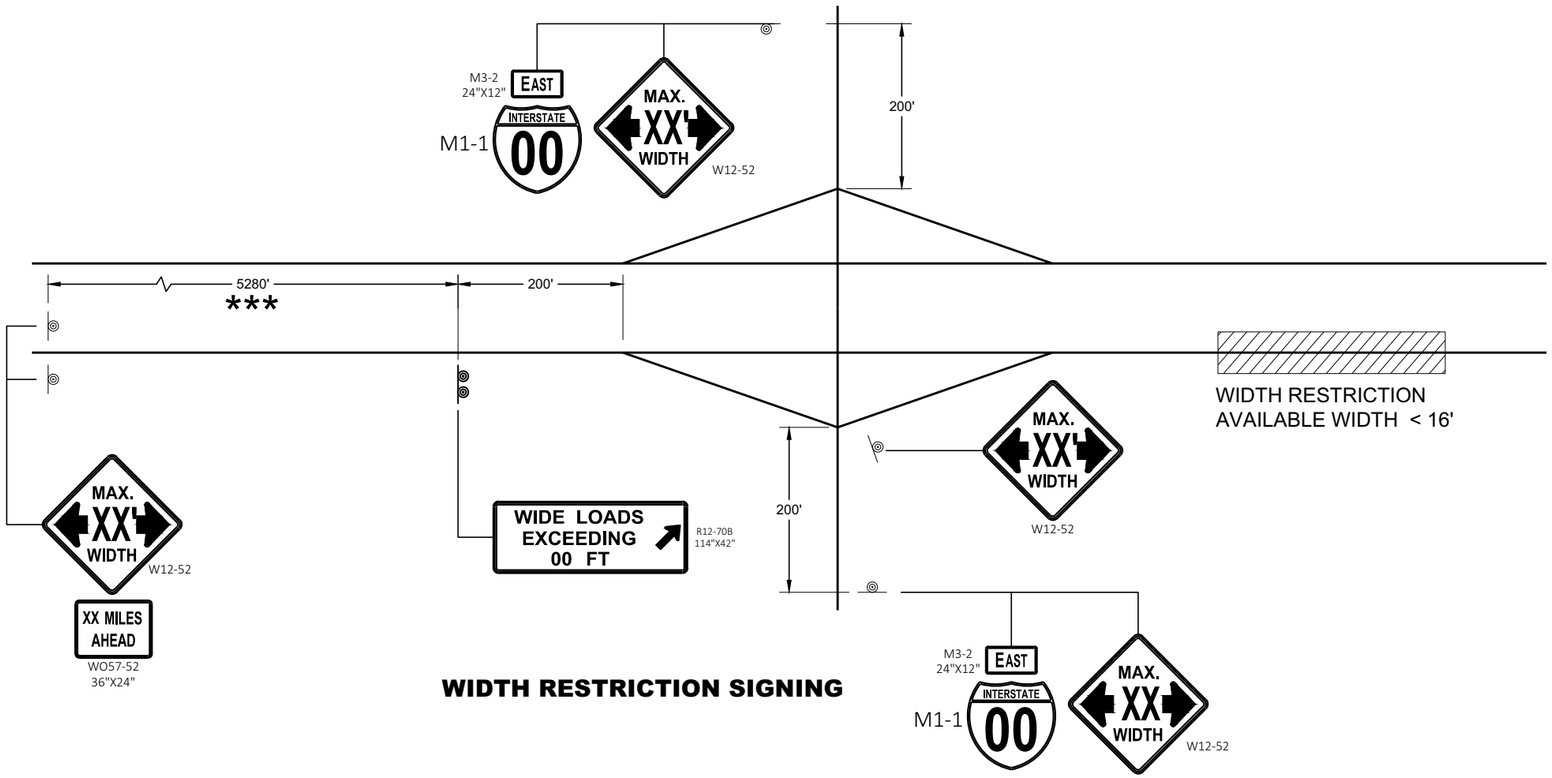
OFF RAMP LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 DATE
/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA

6

SDD 15C02 - 08e



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.

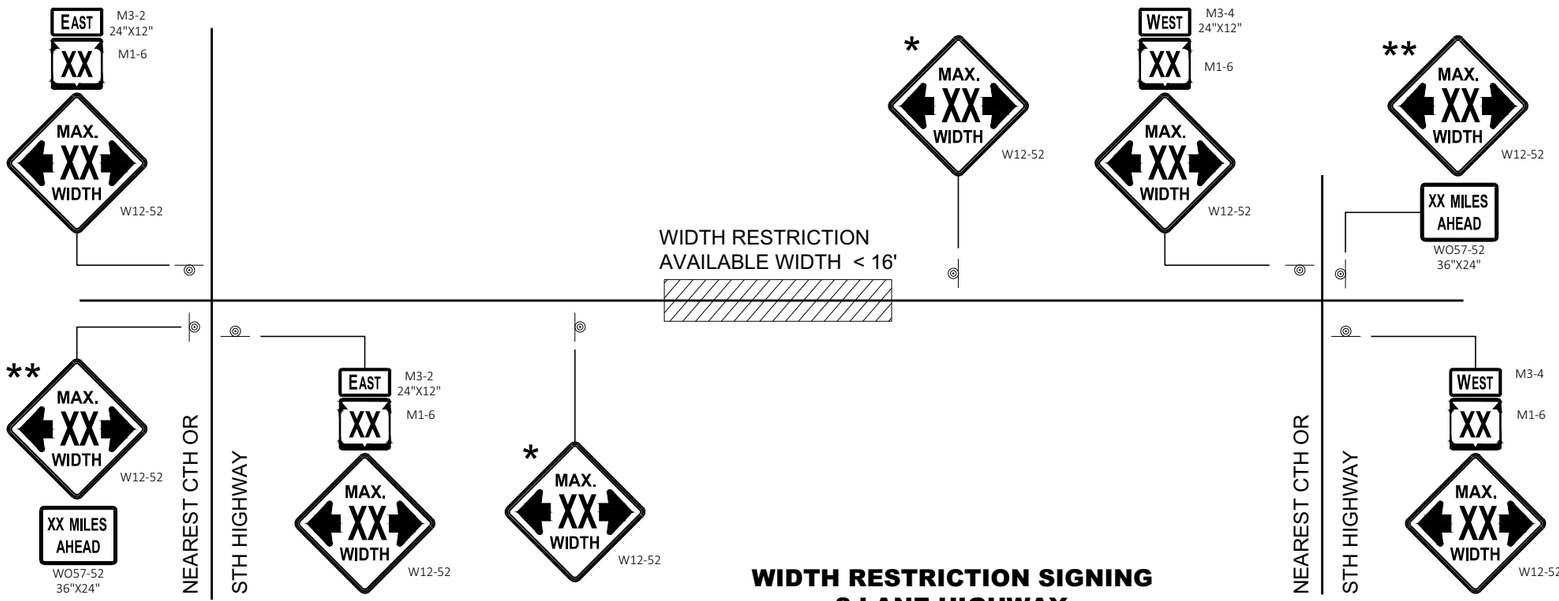
* PLACE 500 FEET AFTER THE W20 - 1A AND 500 FEET BEFORE ADDITIONAL SIGNS FOR ROADWAYS WITH A PRE - CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200 FOOT TYPICAL SPACING.

** 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
DEPARTMENT OF TRANSPORTATION

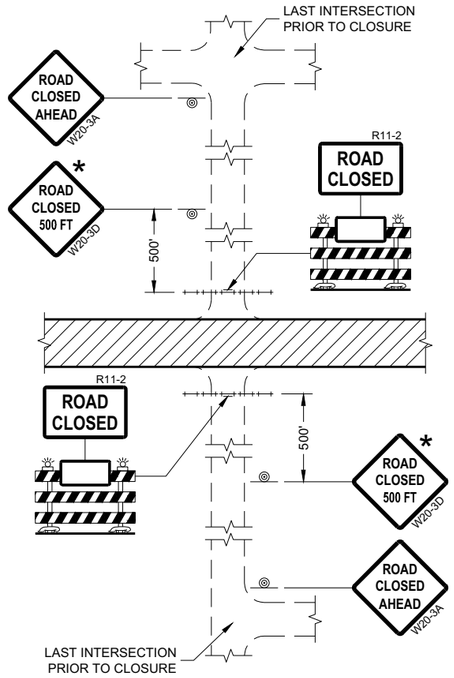
APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE 321

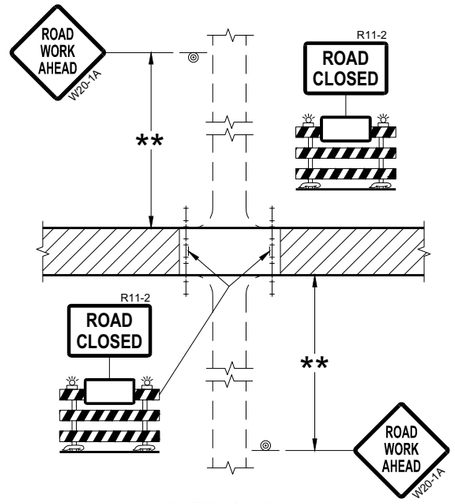
FHWA

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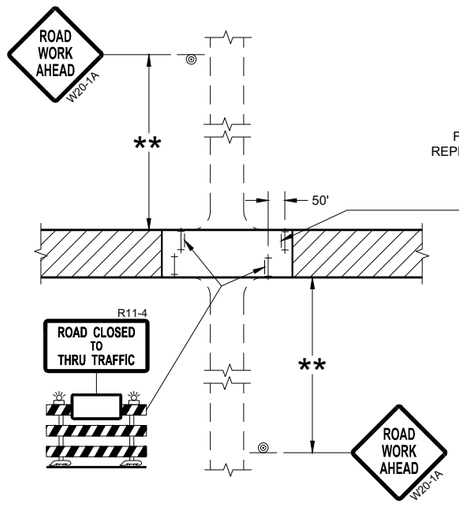
SDD 15C02 - 08f



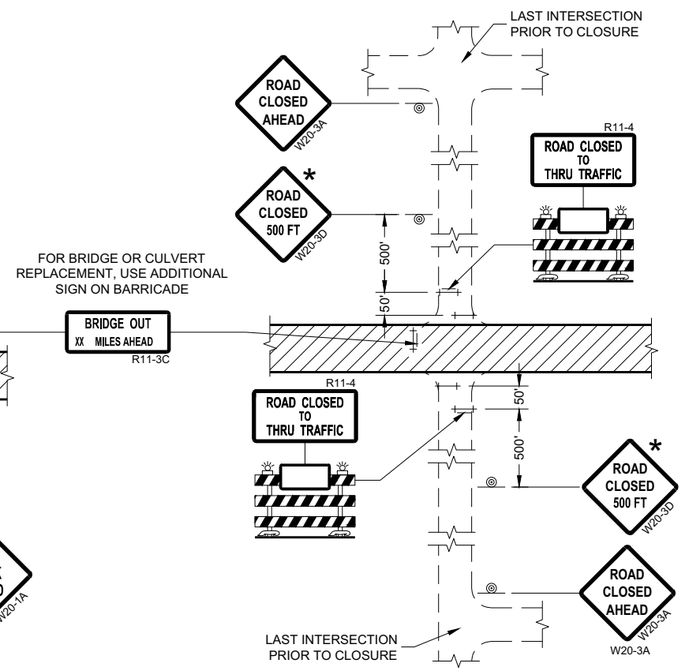
DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE (500 FEET DESIRABLE) TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

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SDD 15C03 - 05

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SDD 15C03 - 05

GENERAL NOTES

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

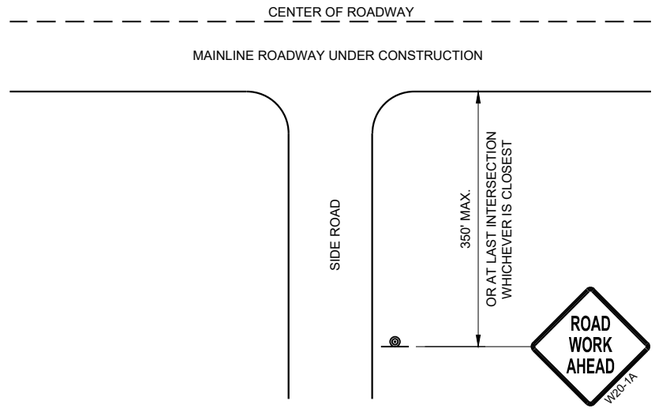
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN 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 REESTABLISHED.

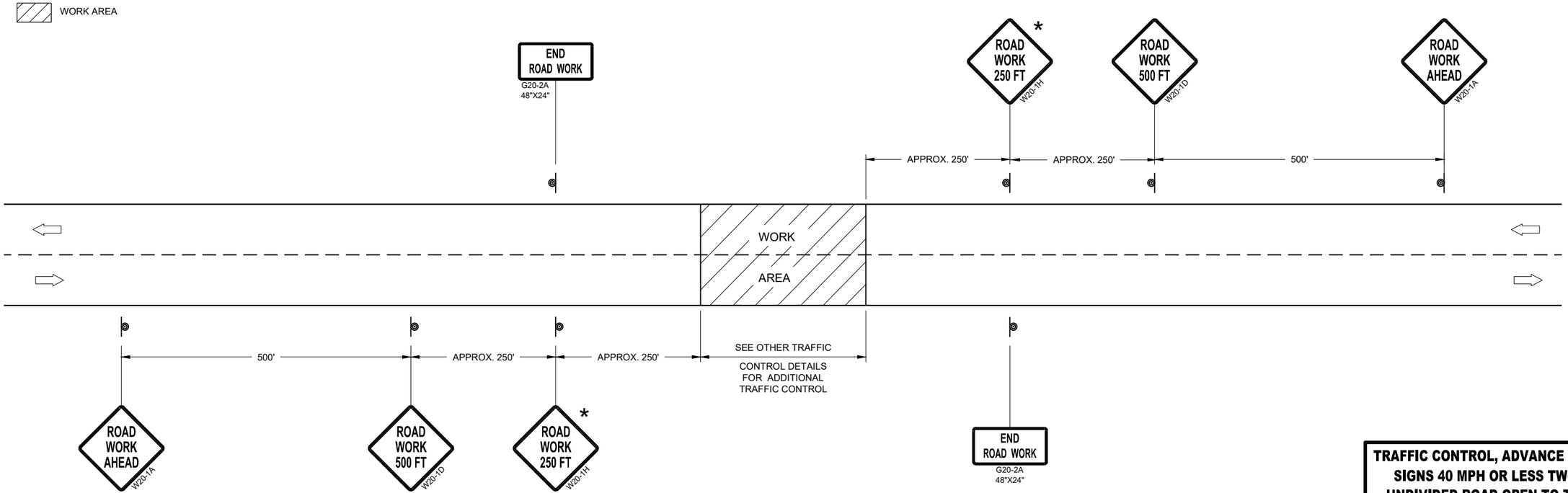
* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
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APPROVED
July 2018
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WORK ZONE ENGINEE

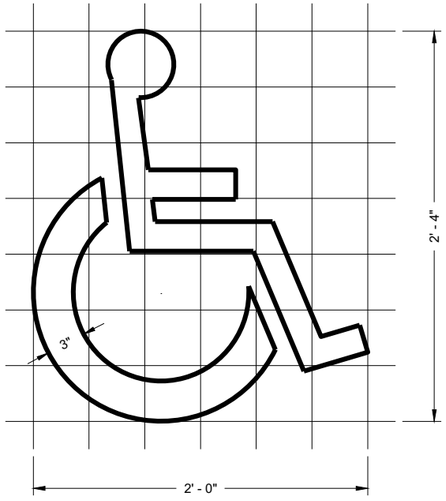
FHWA

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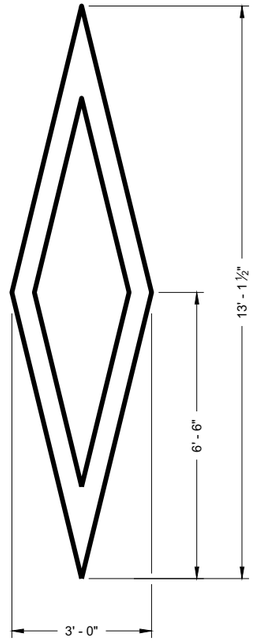
SDD 15C05 - 05

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



HANDICAP SYMBOL



PREFERENTIAL LANE SYMBOL

6

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SDD 15C07 - 15a

SDD 15C07 - 15a

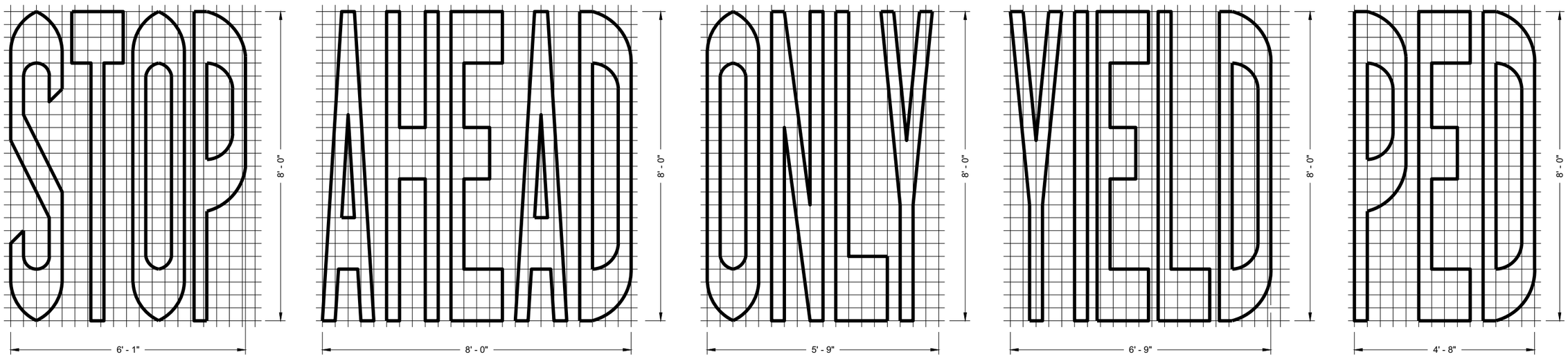
PAVEMENT MARKING SYMBOLS

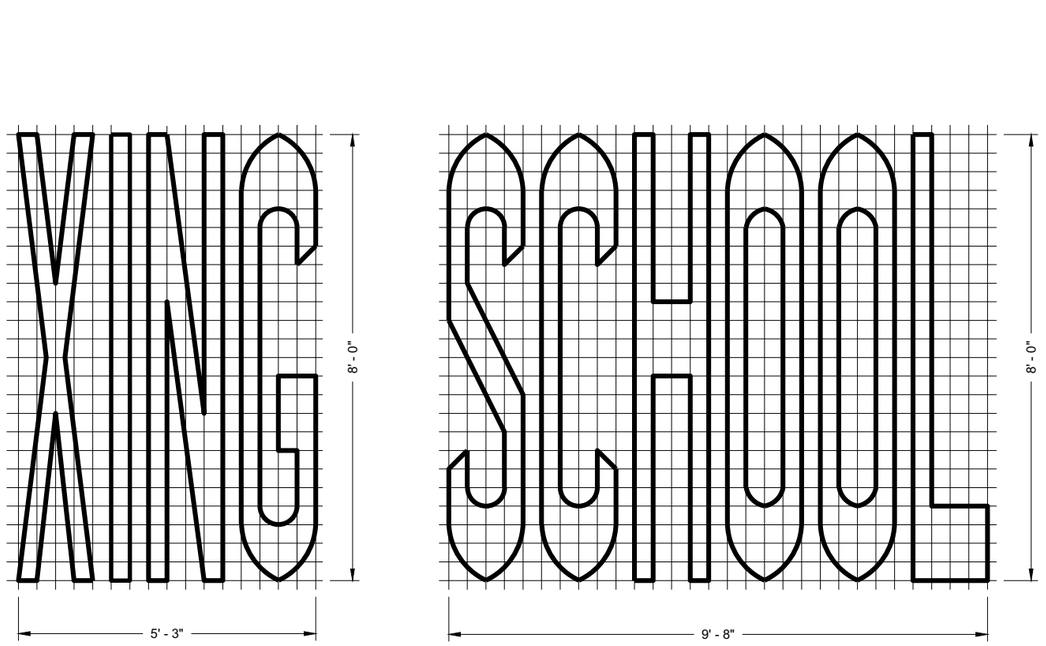
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

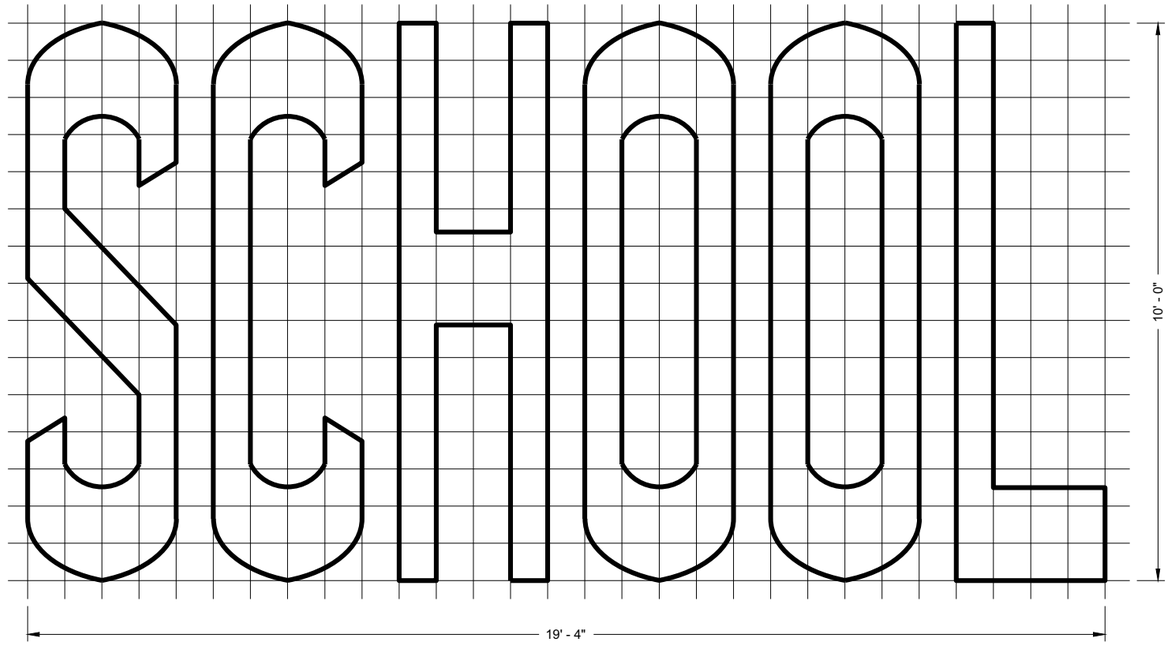
/S/ Matthew Rauch
STATE SIGNING AND MAR ENGINEER

FHWA





SINGLE LANE



TWO - LANE

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

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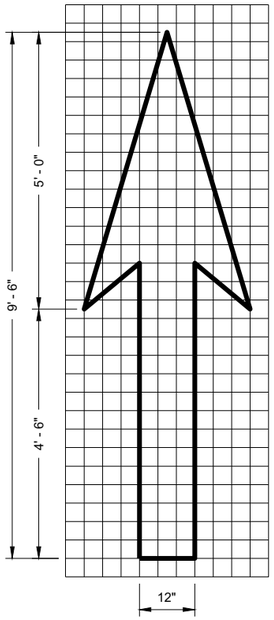
SDD 15C07 - 15b

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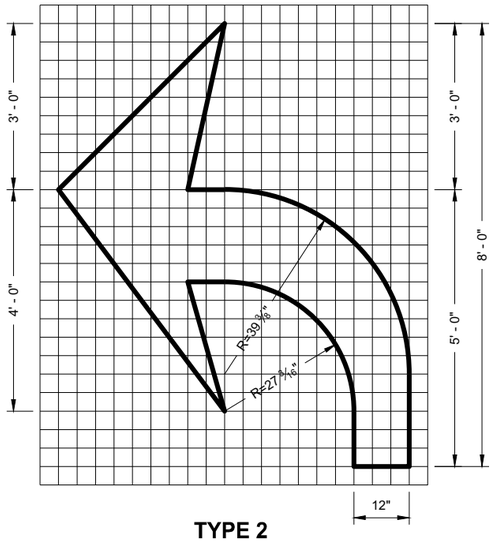
SDD 15C07 - 15b

GENERAL NOTES

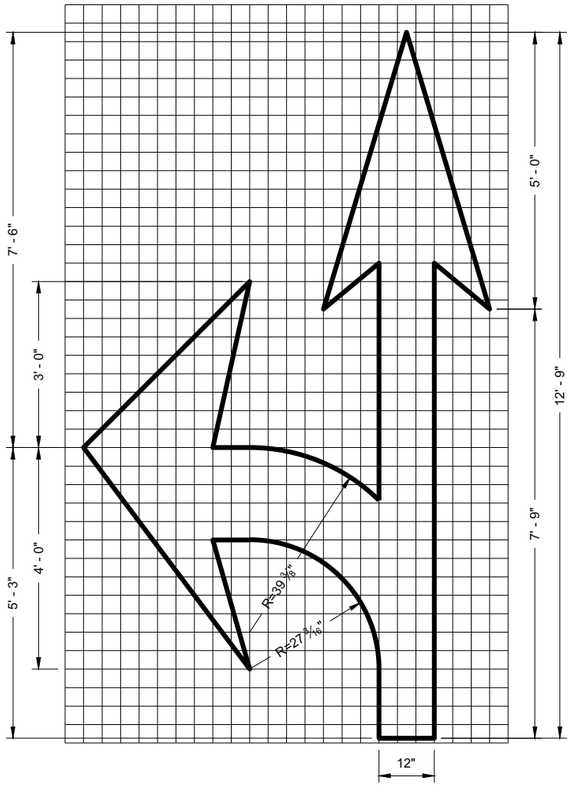
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



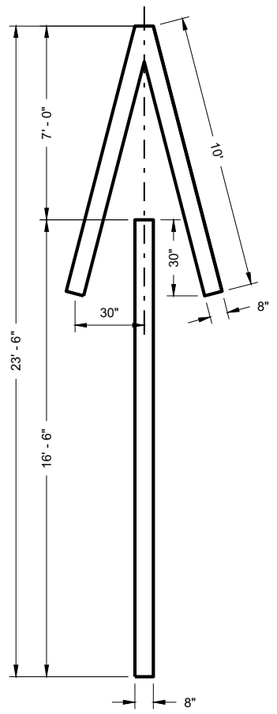
TYPE 1



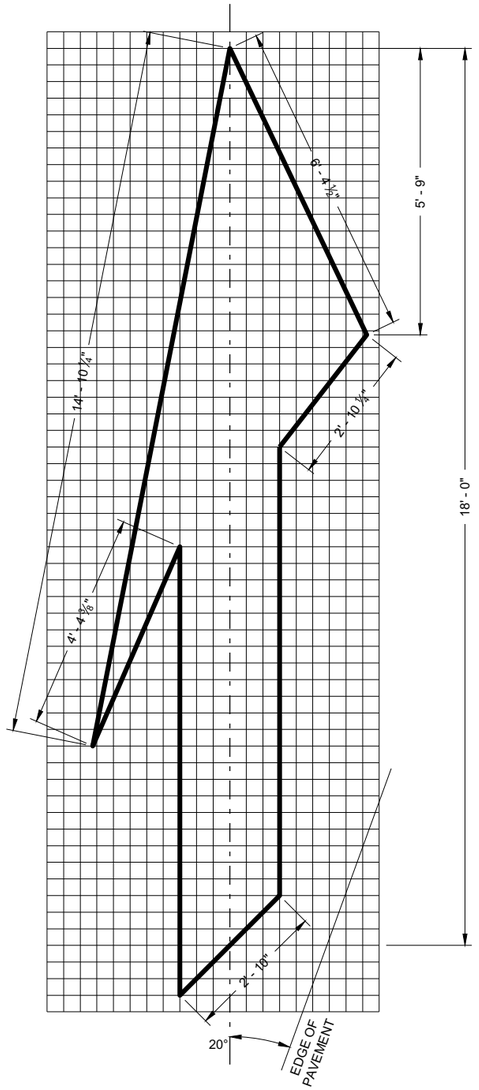
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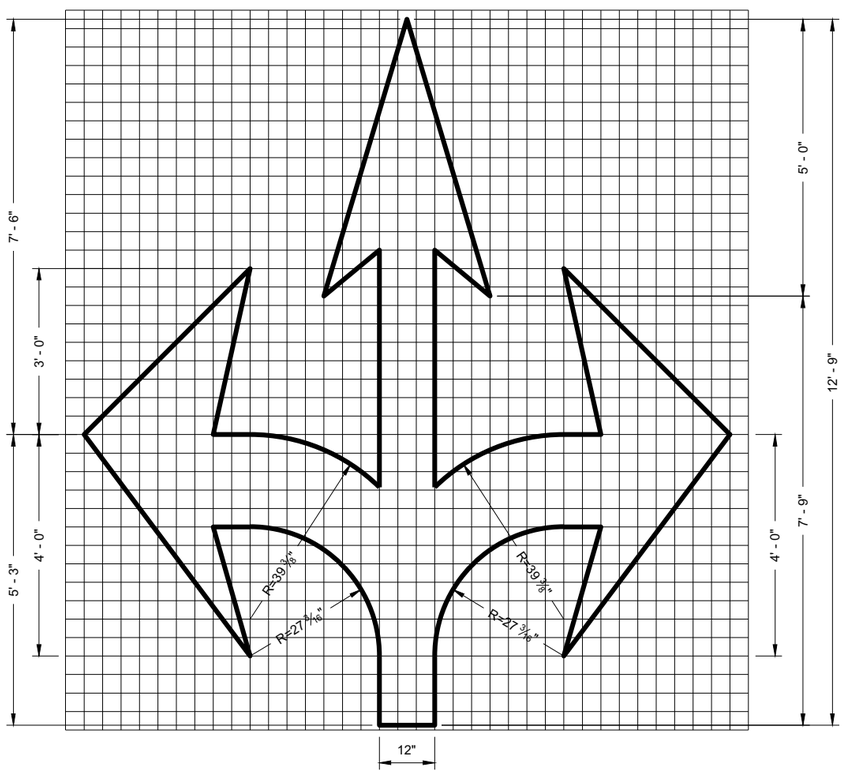
TYPE 3



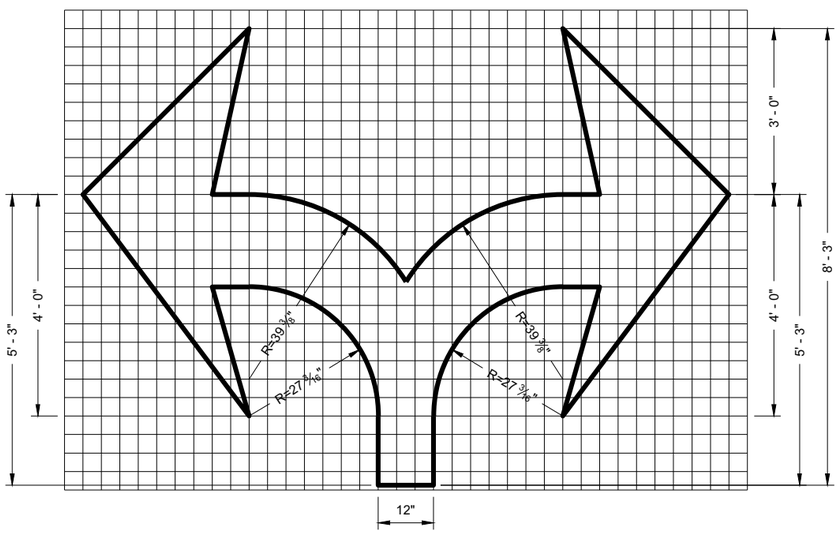
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

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DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAF ENGINEER

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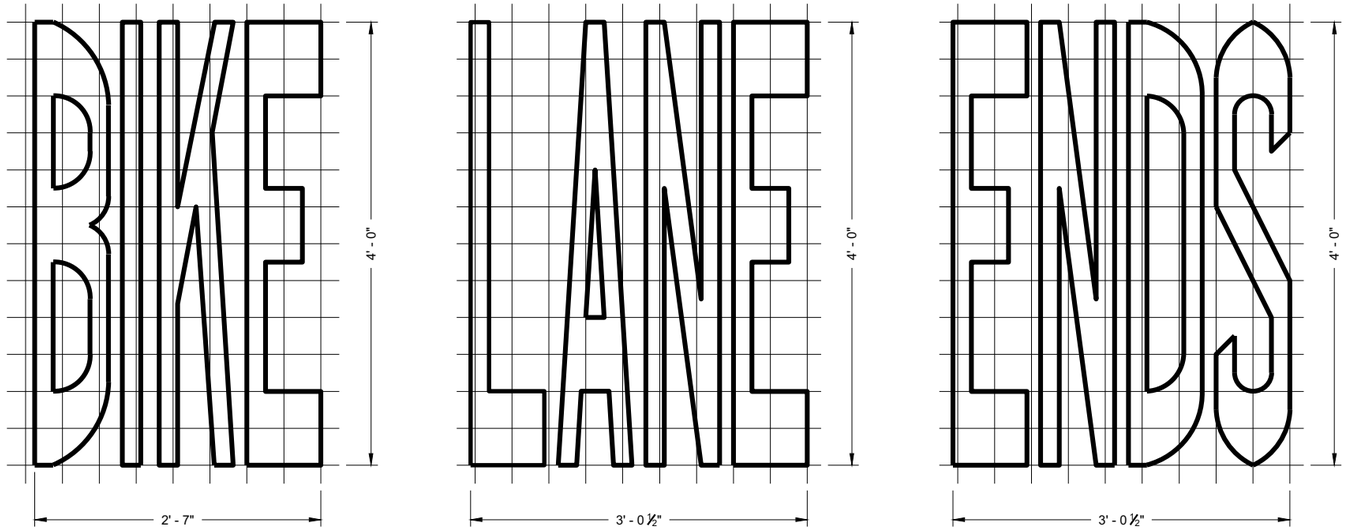
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SDD 15C07 - 15c

6

SDD 15C07 - 15c

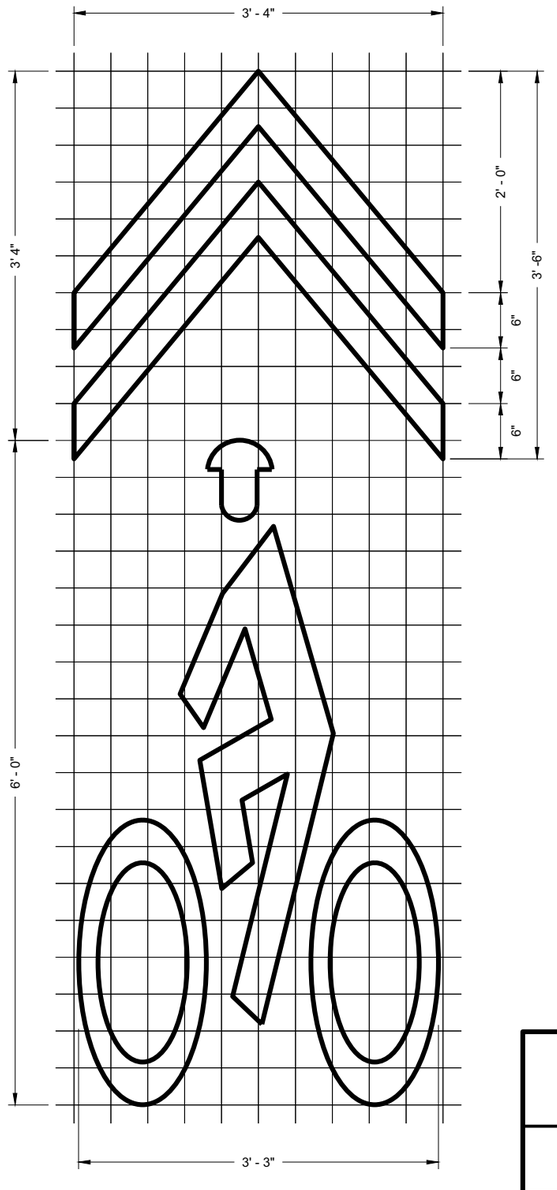
SDD 15C7-e Pavement Marking For Bike Lanes



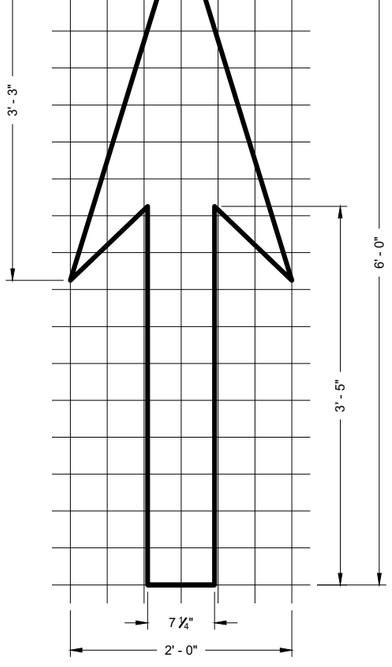
BIKE LANE WORDS

GENERAL NOTES

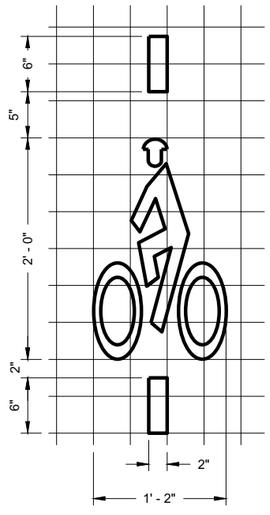
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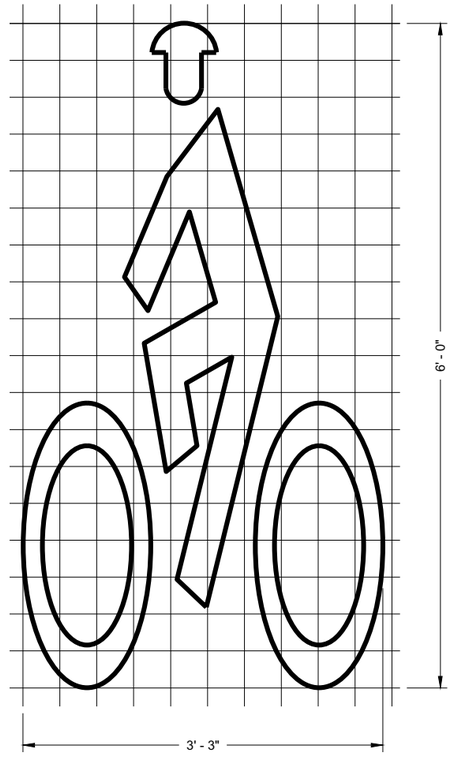
BIKE LANE SYMBOL FOR SHARED LANE



BIKE LANE ARROW



BICYCLE DETECTOR PAVEMENT MARKING



BIKE LANE SYMBOL

PAVEMENT MARKING FOR BIKE LANES

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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

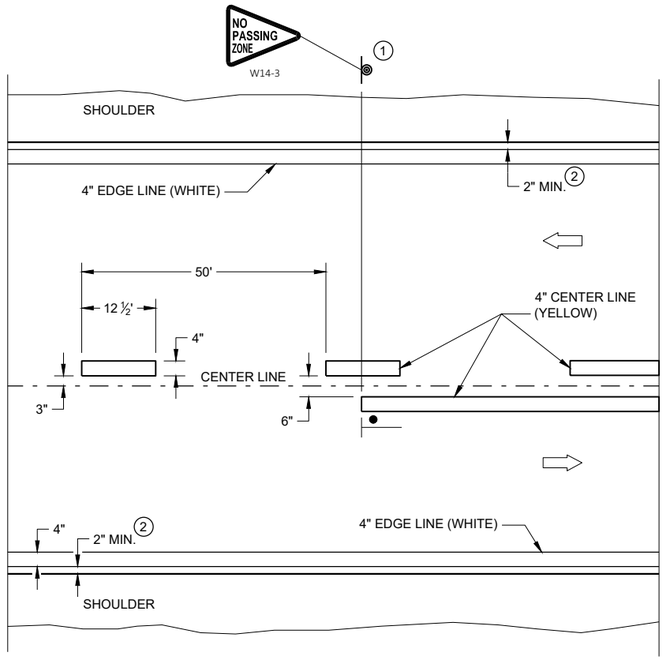
(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

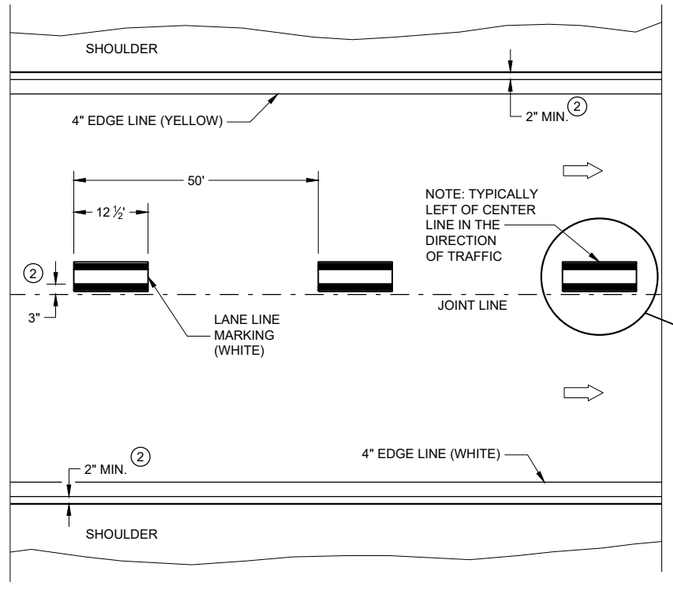
"T" MARKING

SIGN ON PERMANENT SUPPORT

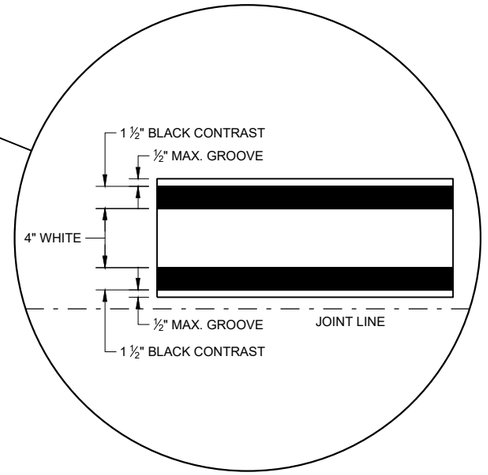
DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC



PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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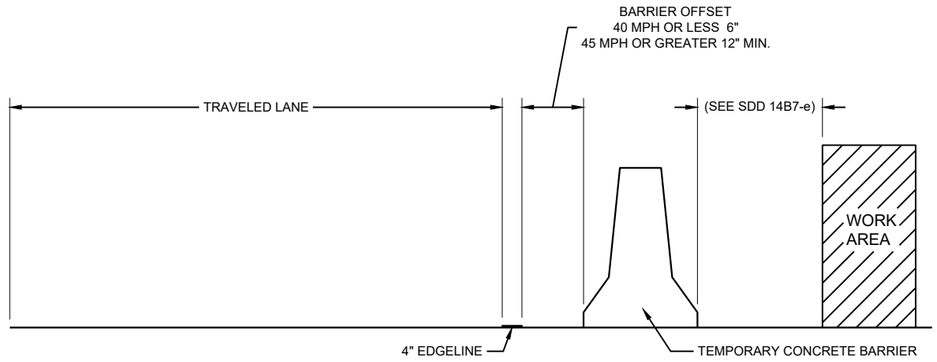
FHWA

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SDD 15C08 - 22a

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SDD 15C08 - 22a



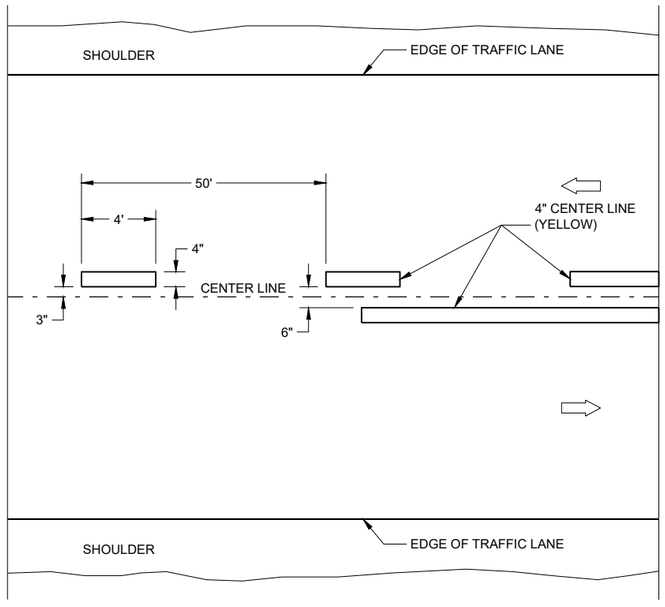
TEMPORARY BARRIER OFFSET FROM EDGELINE

GENERAL NOTES

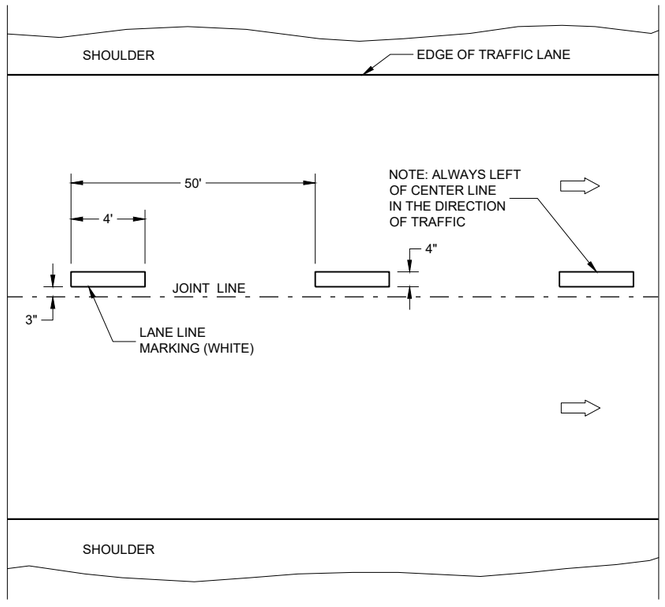
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

LEGEND

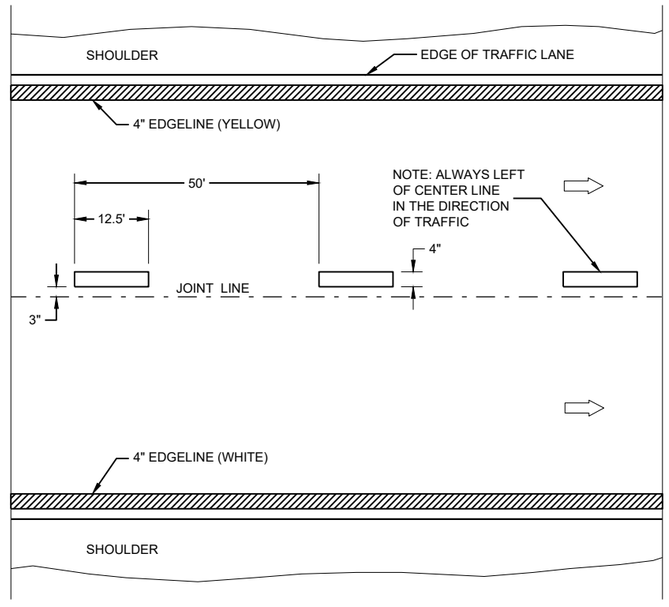
DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

TEMPORARY LONGITUDINAL PAVEMENT MARKING

STATE OF WISCONSIN
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ENGINEER

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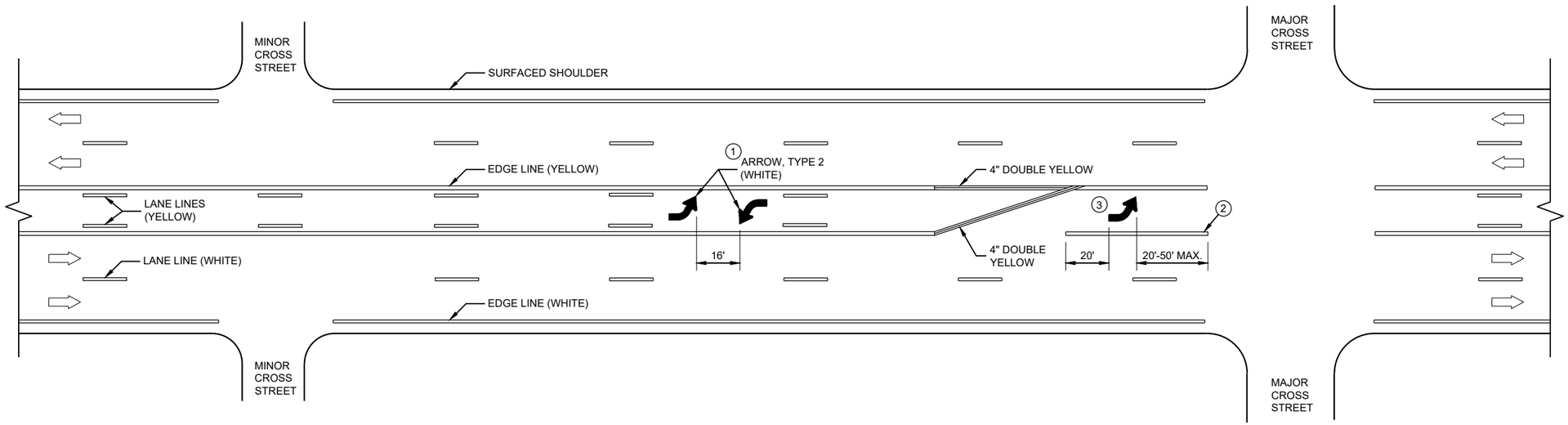
6

SDD 15C08 - 22b

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

6

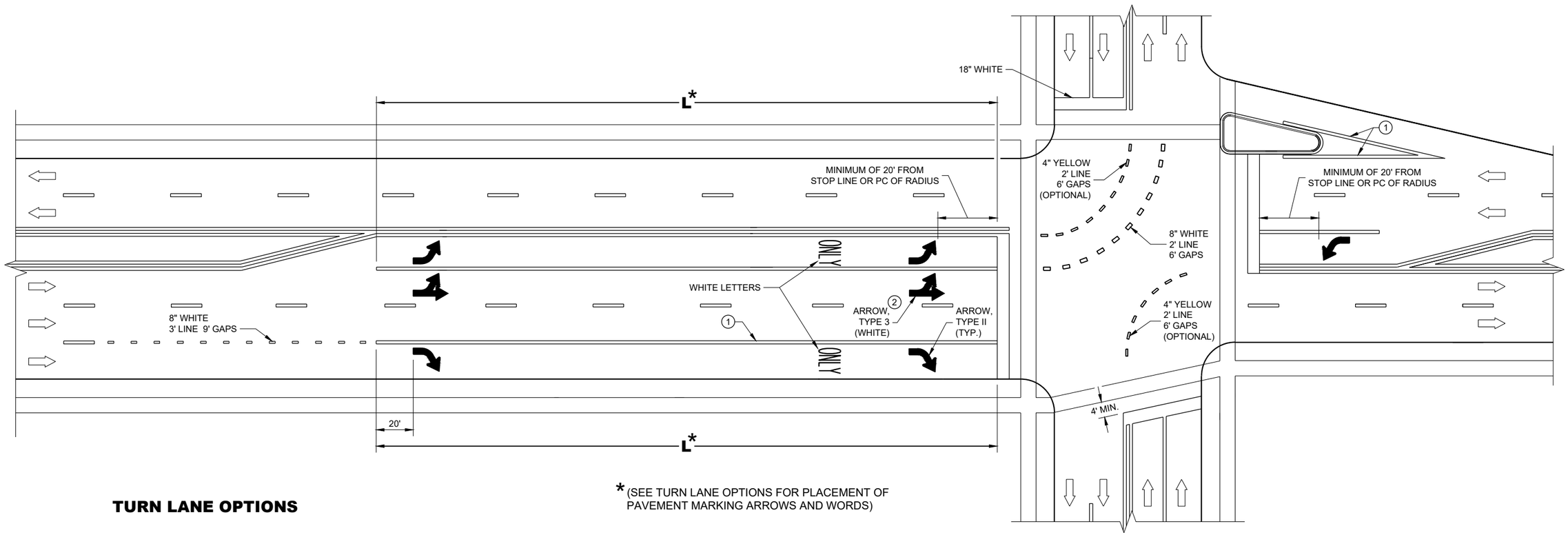
SDD 15C08 - 22c

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

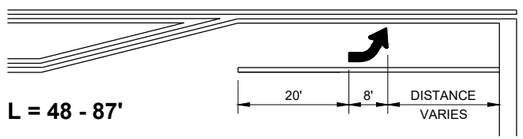
SDD 15C08 - 22c



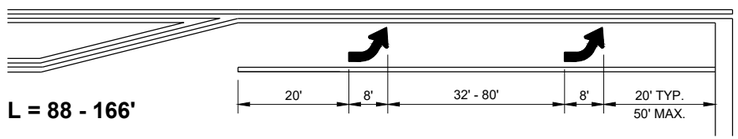
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

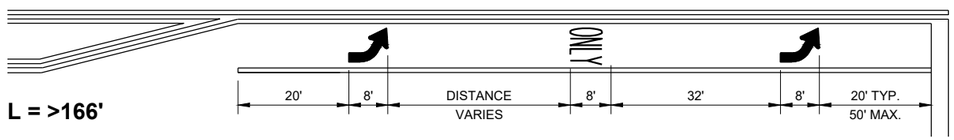
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. 8" WHITE
2. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

DIRECTION OF TRAFFIC

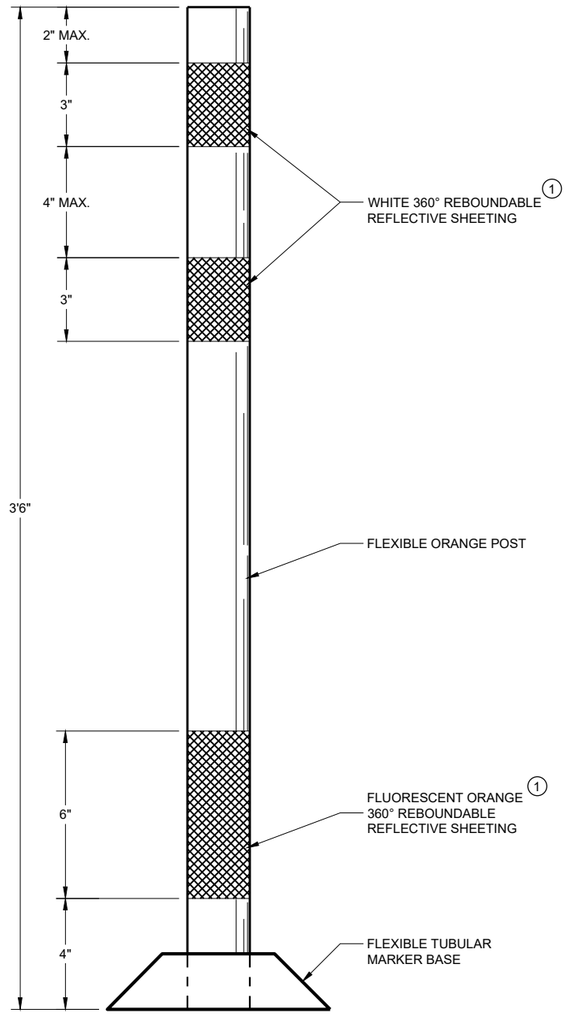
L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 15C08 - 22d

6
SDD 15C08 - 22d



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.

CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST

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DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
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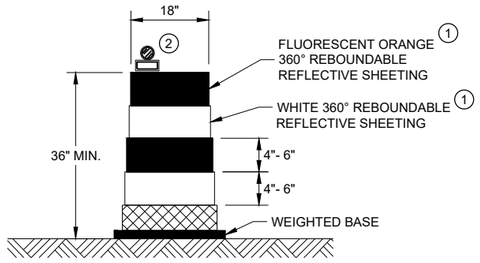
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SDD 15C11 - 09a

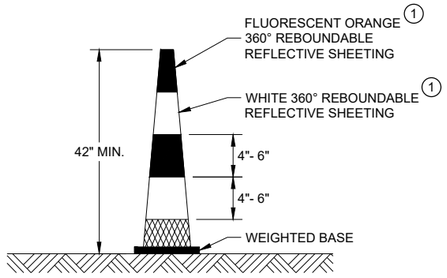
SDD 15C11 - 09a

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.

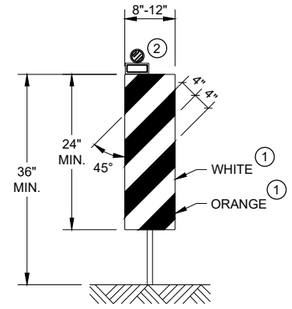


DRUM



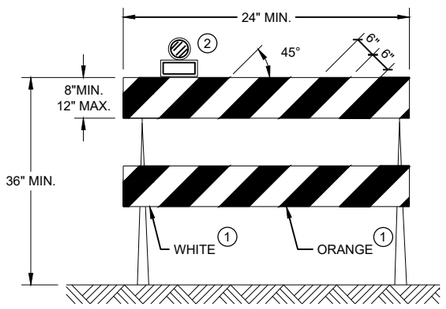
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



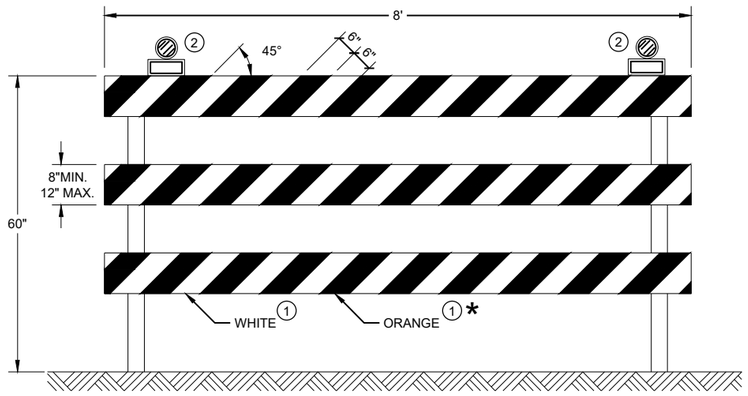
VERTICAL PANEL

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

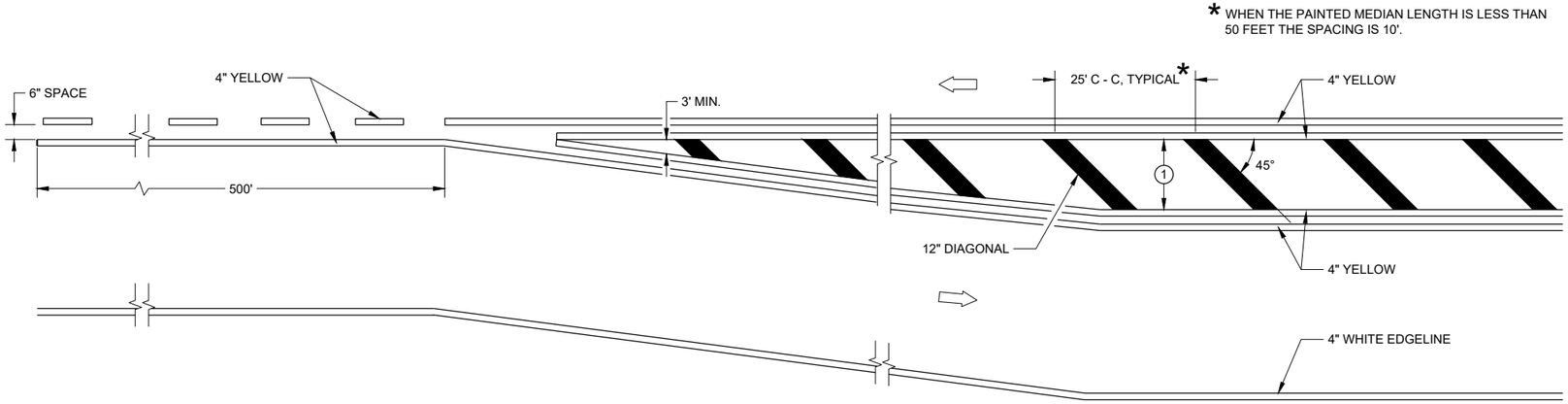
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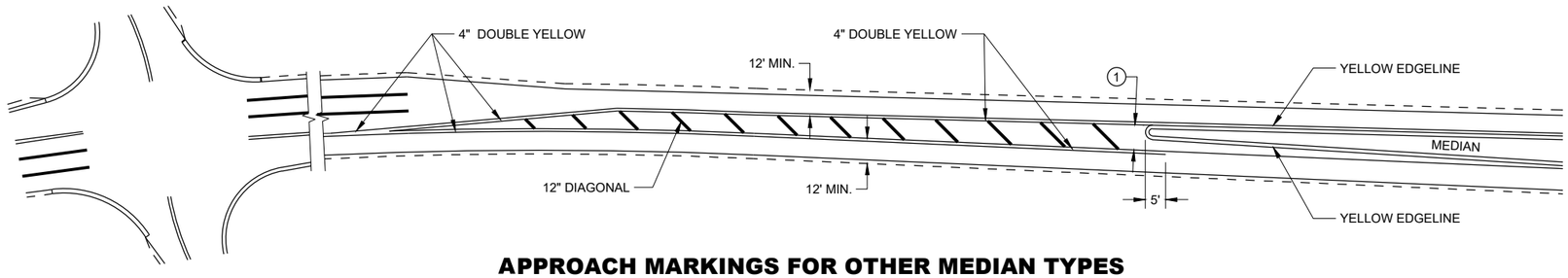
SDD15C11 - 09b

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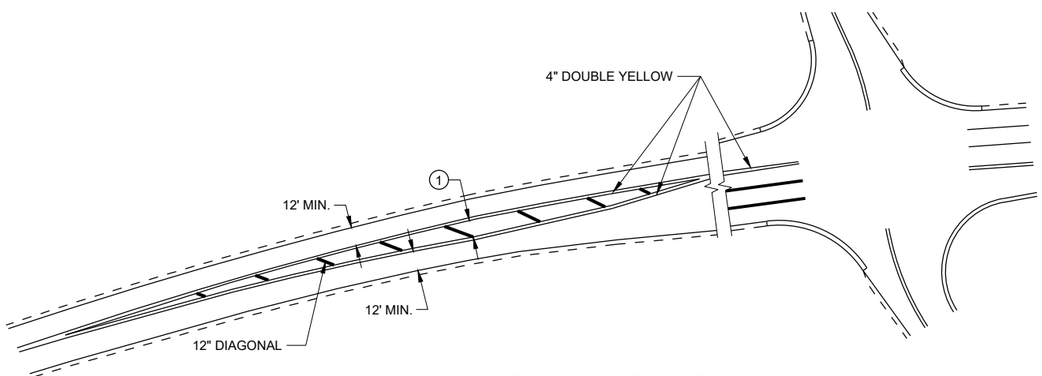
SDD15C11 - 09b



MEDIAN ISLAND DETAIL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

GENERAL NOTES

1. DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT THE WIDEST POINT. OMIT DIAGONALS IF WIDTH IS LESS THAN 4 FEET.

⇨ DIRECTION OF TRAVEL

MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN
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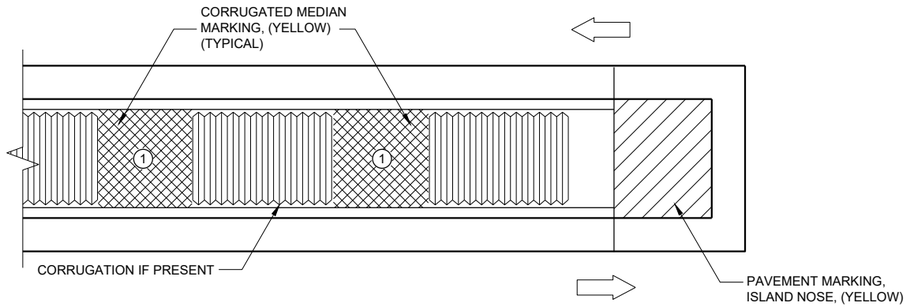
/S/ Jeannie Silver
STATE SIGNING AND MAF ENGINEER

FHWA

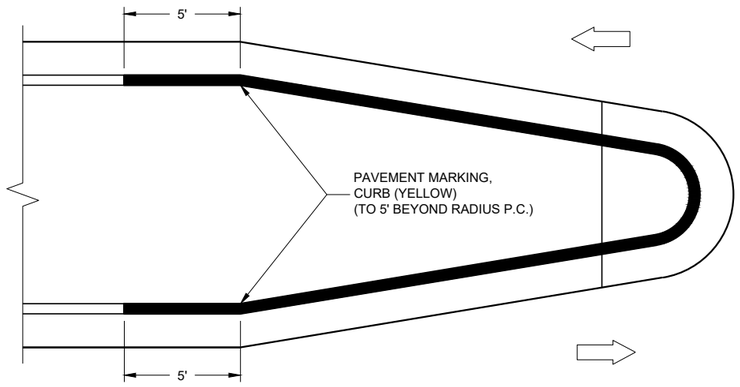
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SDD 15C18 - 06a

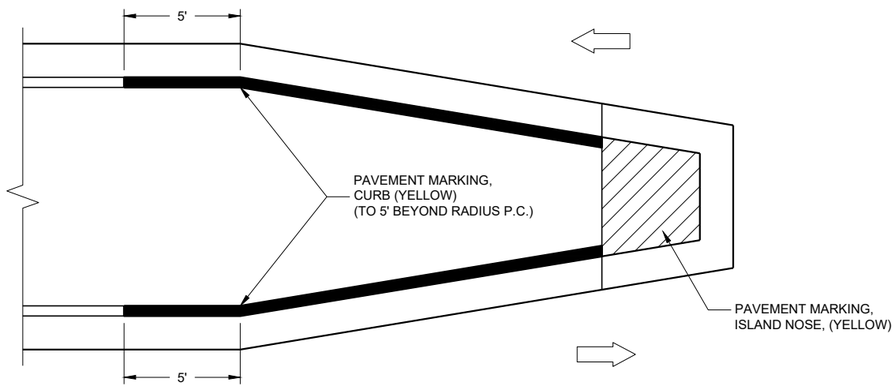
SDD 15C18 - 06a



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.

(1) APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

PAVEMENT MARKINGS, MEDIAN ISLAND NOSE

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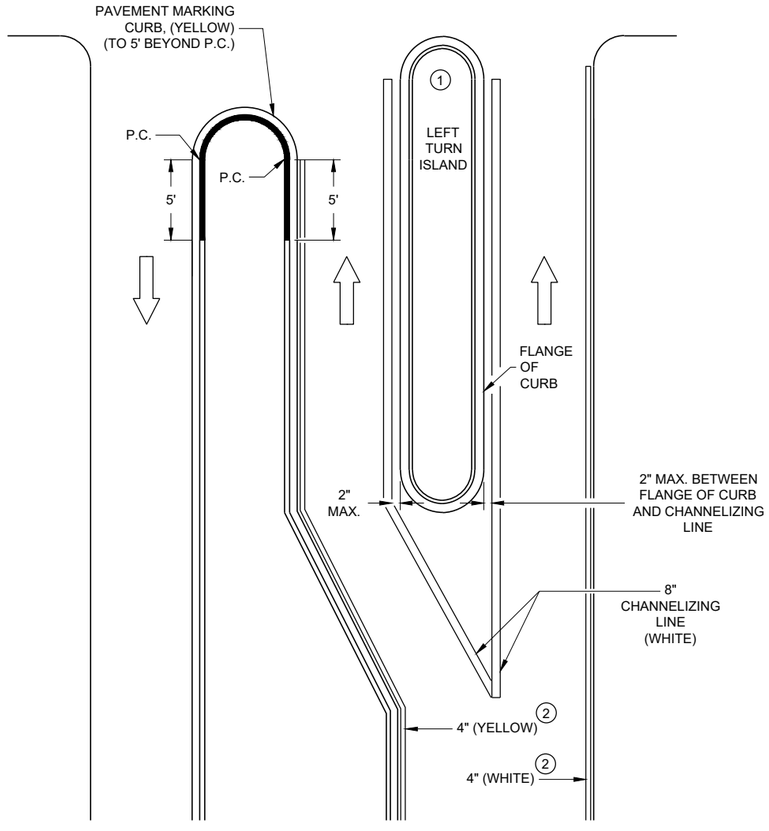
6

SDD 15C18 - 06b

6

SDD15C18 - 06b

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

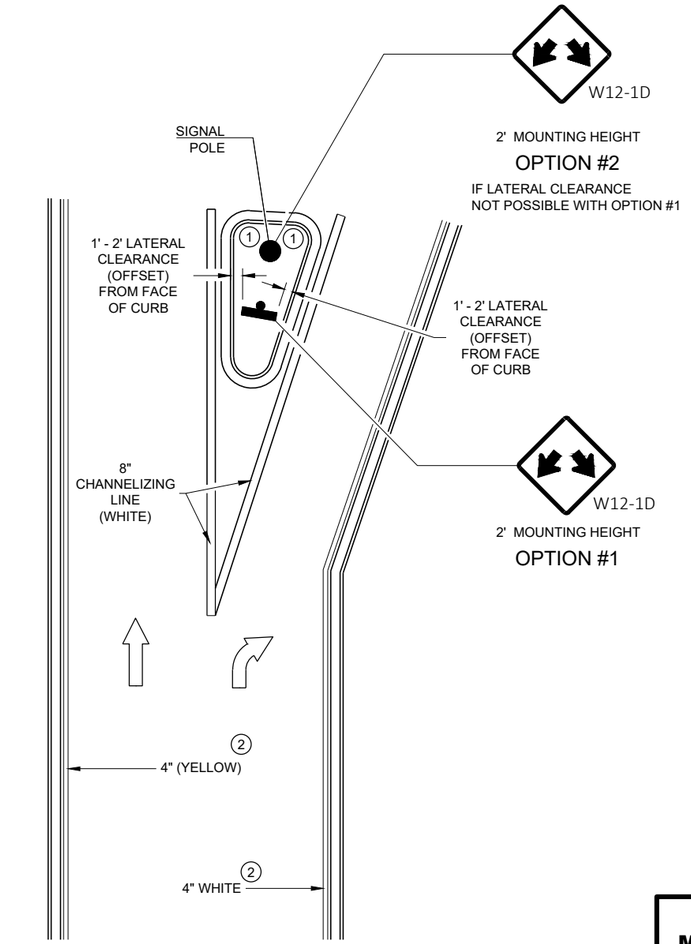
APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

(1) MARK CURB NOSES YELLOW.

(2) MARK ACCORDING TO TABLE.

DIRECTION OF TRAVEL



RIGHT TURN ISLAND

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT

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SDD15C18 - 06c

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

FLASHING ARROW PANEL (CAUTION)

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 OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

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 AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

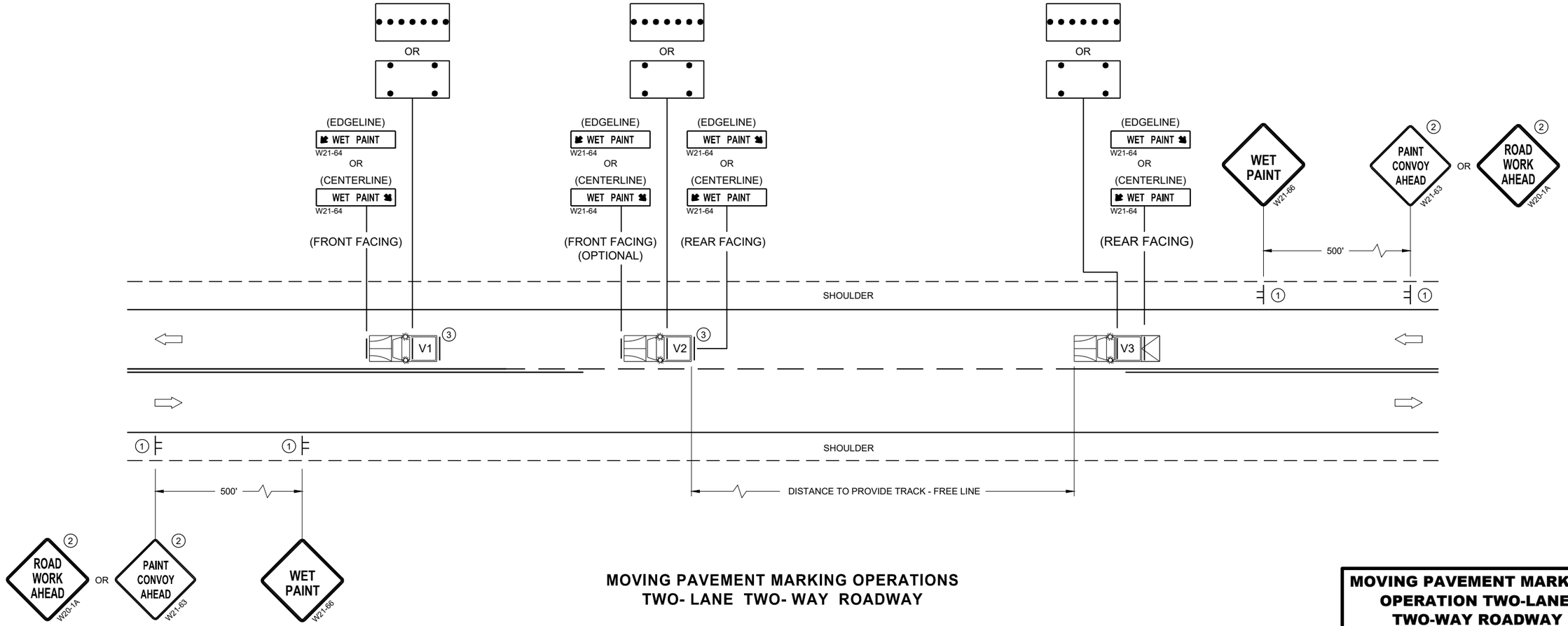
THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM OF 28" FOR WET PAVEMENT MARKING .

1. SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.
2. IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.
3. V1 AND V2 CAN BE SWITCHED SO THAT THE MARKER IS THE LEAD VEHICLE.



MOVING PAVEMENT MARKING OPERATIONS
TWO- LANE TWO- WAY ROADWAY

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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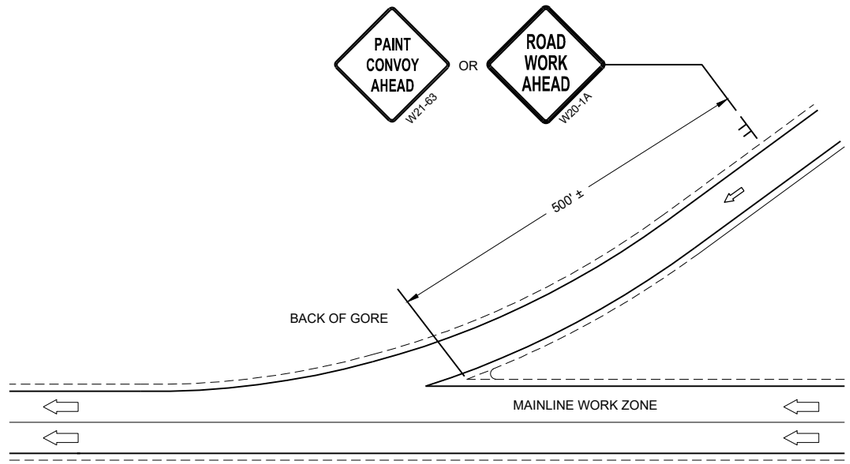
SDD 15C19 - 07a

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SDD 15C19 - 07a

LEGEND

- V1 MARKING VEHICLE
- V2 SHADOW VEHICLE
- V3 TRAIL VEHICLE
- TRUCK MOUNTED ATTENUATOR (TMA)
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW PANEL (MERGE)
- FLASHING ARROW PANEL (CAUTION)



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.

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 AND 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.

IF THE SHOULDER IS TOO NARROW TO ACCOMMODATE THE LAST TRAILING VEHICLE, THE VEHICLE SHOULD STRADDLE THE EDGE LINE.

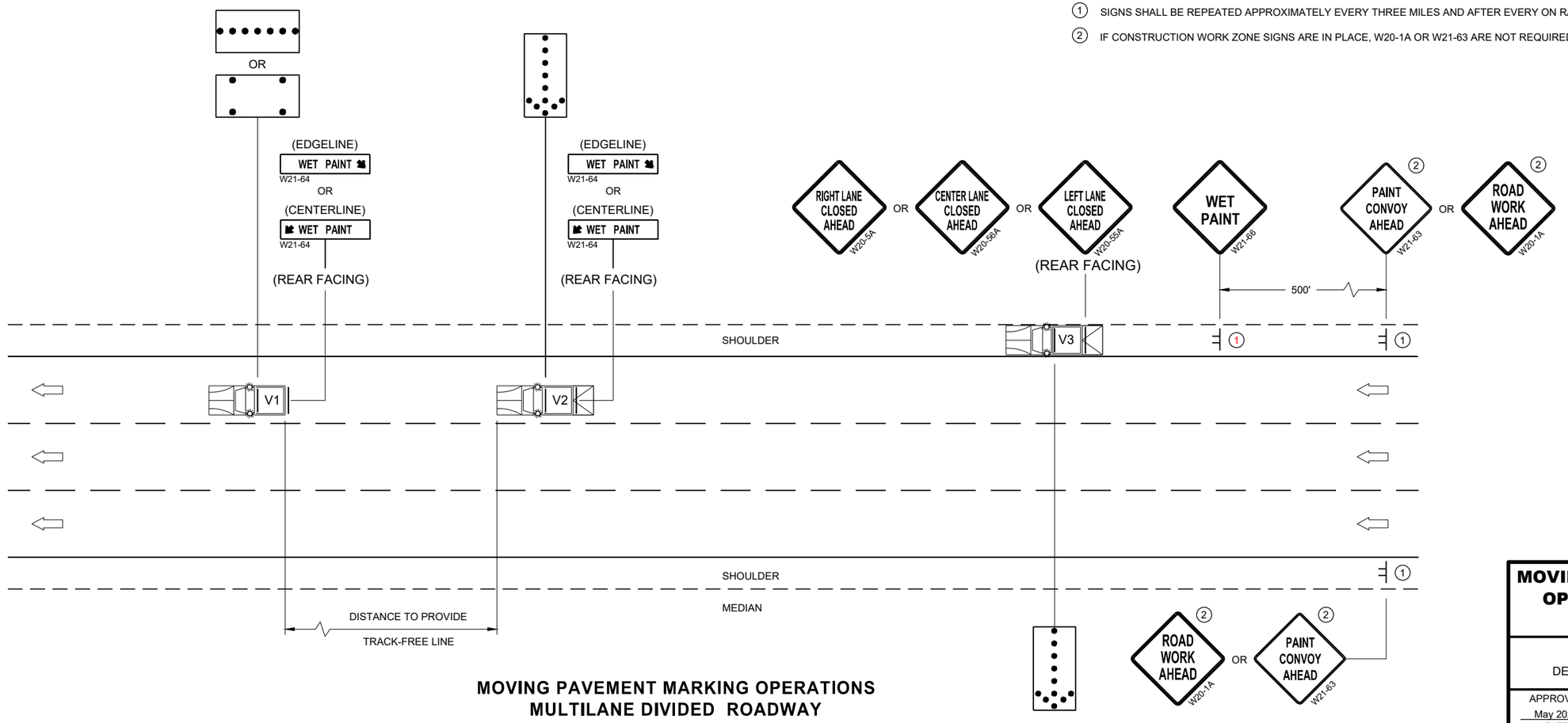
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM HEIGHT OF 28" FOR WET PAVEMENT MARKINGS

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY ON RAMP.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS
MULTILANE DIVIDED ROADWAY

MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
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SDD15C19 - 07c

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SDD15C19 - 07c

GENERAL NOTES

SIGNING AND MARKING IS SHOWN AS TYPICAL PLACEMENT. FIELD CONDITIONS MAY DICTATE CHANGES IN SIGNING AND MARKING PLACEMENT.

(1) USED ONLY WHEN APPROVED BY REGION TRAFFIC ENGINEER.

* SIGNS MAY BE OMITTED IF SPACE DOES NOT PERMIT PLACEMENT.

** IF POSTED SPEED IS 45 MPH OR GREATER, PLACE W5-54 SIGN UNDER R4-7 SIGN. MOUNT W5-54 SIGN AT 4' MOUNTING HEIGHT (TOP OF ROADWAY TO BOTTOM OF SIGN).

LEGEND

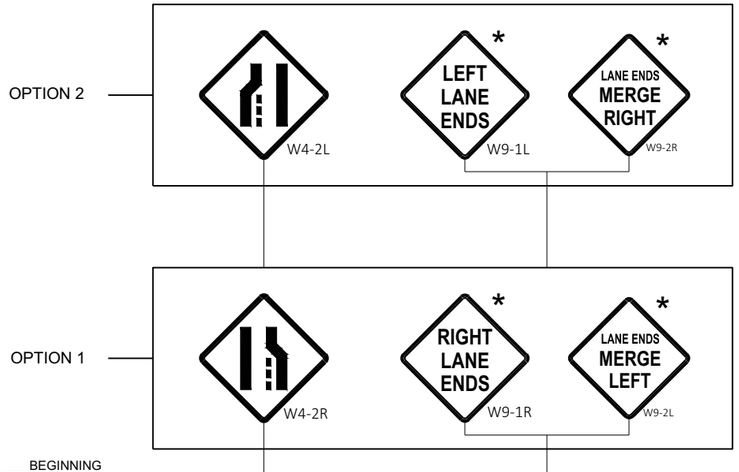
A DISTANCE DEPENDENT ON SPEED (SEE TABLE)

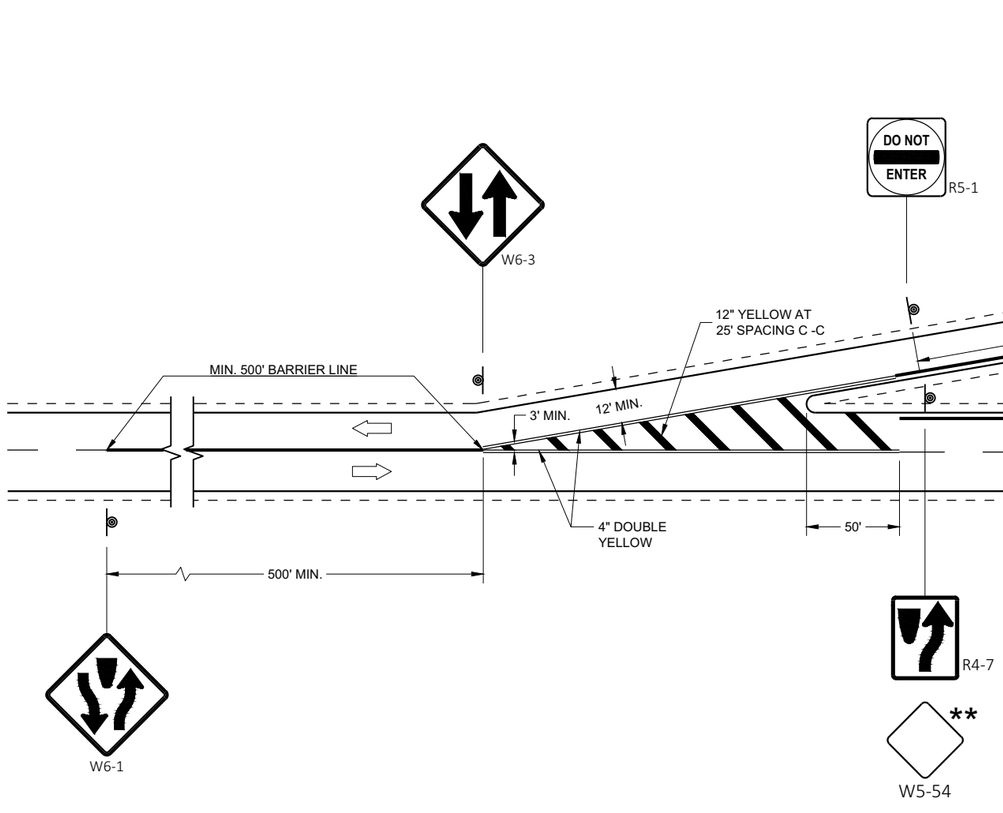
SIGN MOUNTED ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
25	325'
30	460'
35	565'
40	670'
45	775'
50	885'
55	990'
65	1200'
70	1250'





SIGNING AND MARKING TWO LANE TO FOUR LANE DIVIDED TRANSITIONS

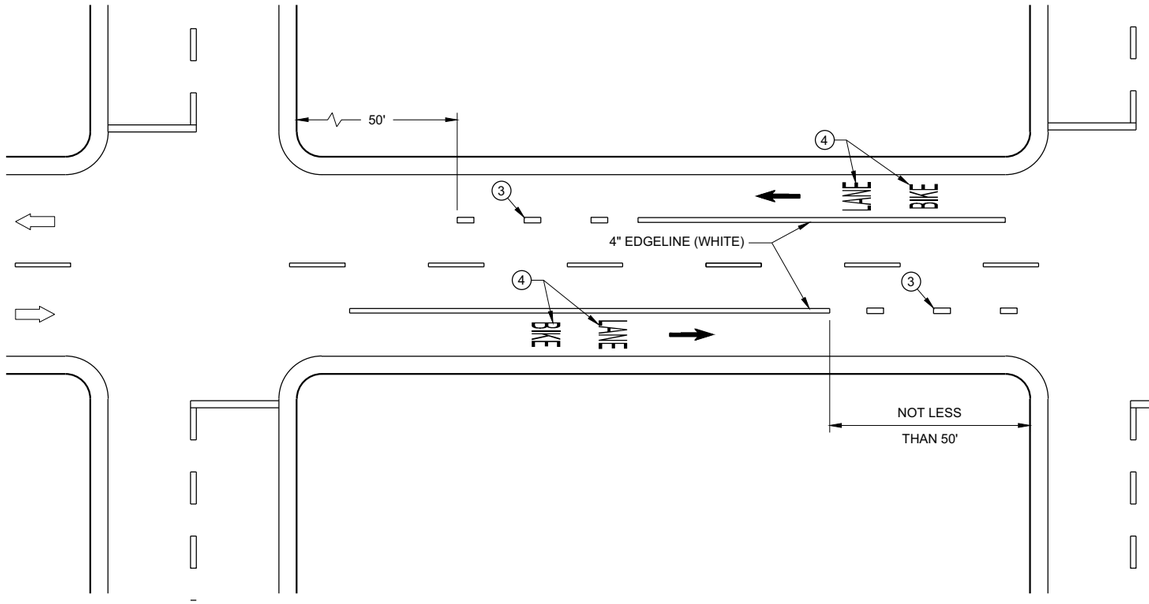
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAR ENGINEER

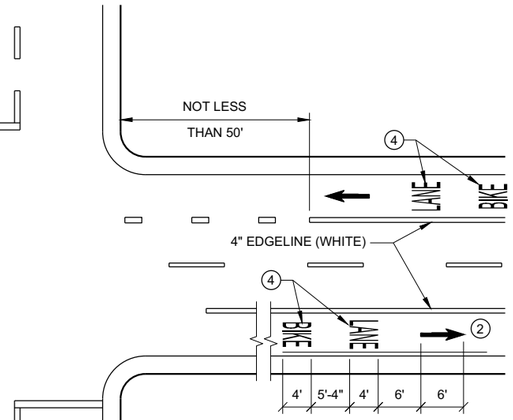
FHWA

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SDD 15C21 - 10



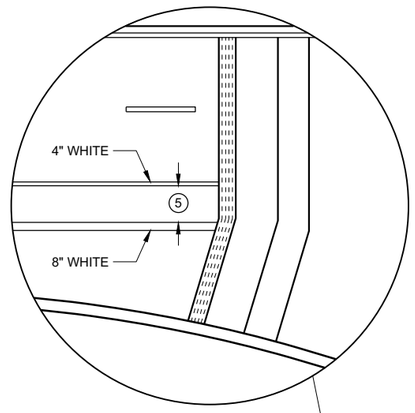
DESIGNATED BIKE LANE - NO PARKING



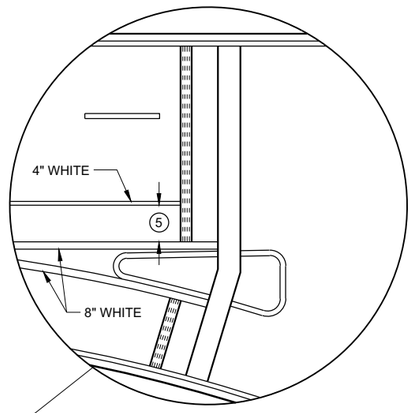
GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. MINIMUM OF ONE PER BLOCK. MAXIMUM OF 250 FEET.
3. DOTTED LINES (3' LINE, 9' GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. BIKE SYMBOLS OR WORDS MAY BE USED.
5. BIKE ACCOMMODATION IS TYPICAL 5 FEET WIDE AND MINIMUM OF 4 FEET FROM A LONGITUDINAL JOINT. USE 5 FEET AT ≥ 45 MPH.
6. OMIT THESE MARKINGS FOR WIDER TURN LANE APPLICATIONS (MINIMUM OF 15 FOOT WIDE TURN LANE).
7. REFER TO CONTRACT PLANS FOR LANE WIDTH.

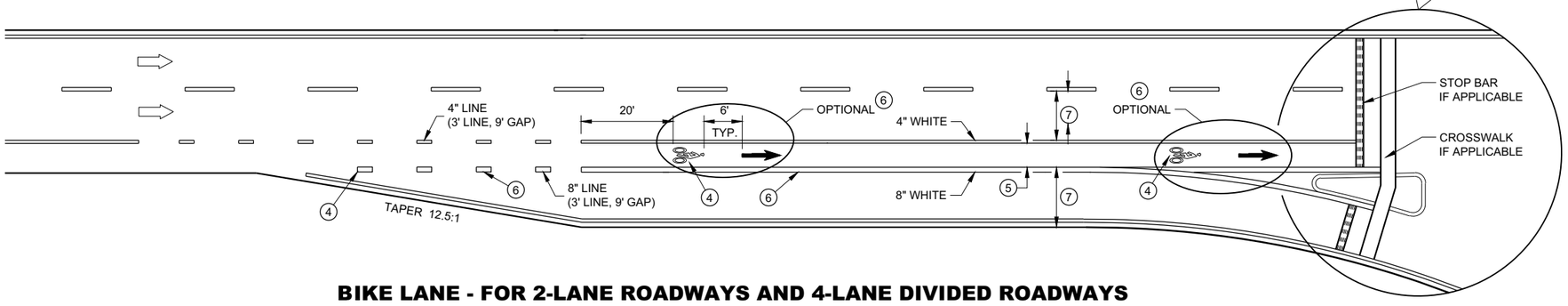
DIRECTION OF TRAVEL



4 LANE DIVIDED WITHOUT ISLAND



4 LANE DIVIDED WITH ISLAND



BIKE LANE - FOR 2-LANE ROADWAYS AND 4-LANE DIVIDED ROADWAYS
(4-LANE DIVIDED WITH RIGHT TURN LANE SHOWN)

BIKE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2020
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

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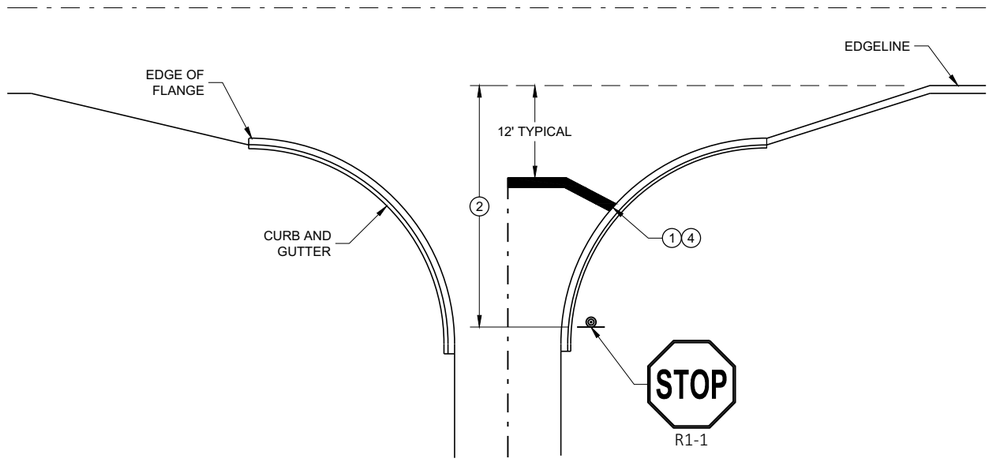
SDD 15C29 - 07a

SDD 15C29 - 07a

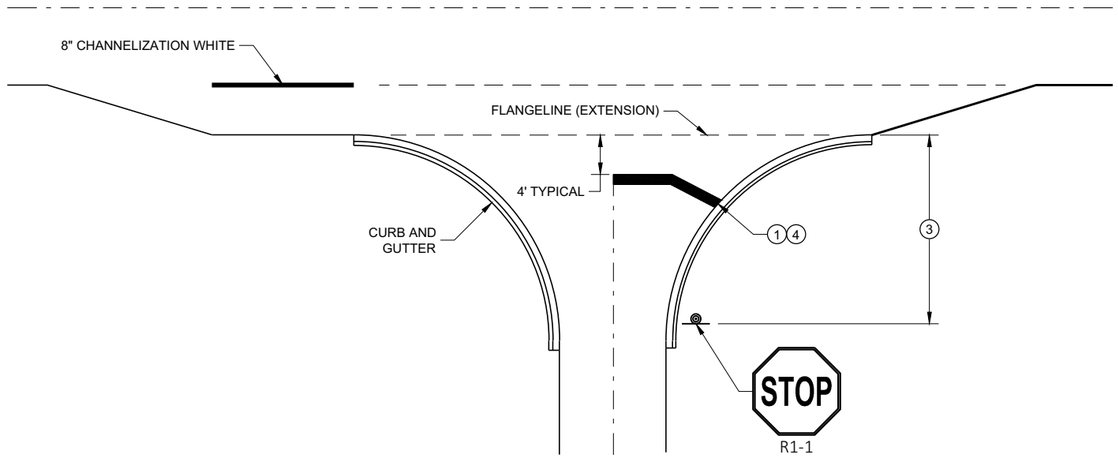
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

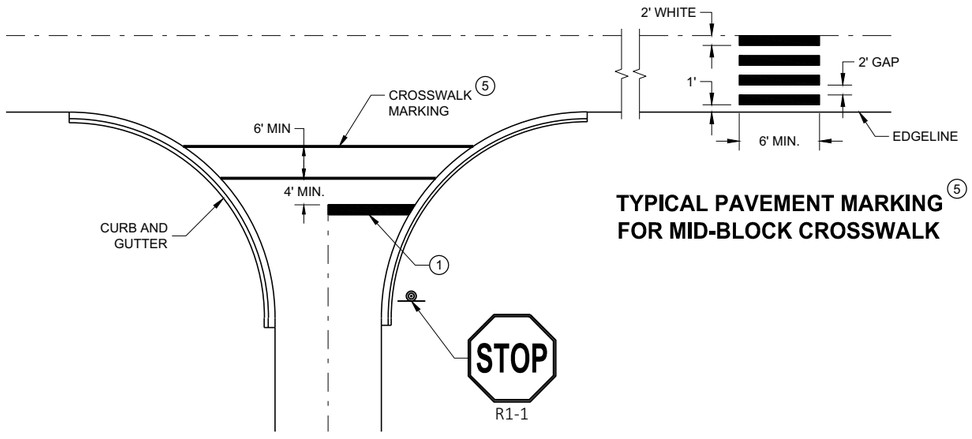
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

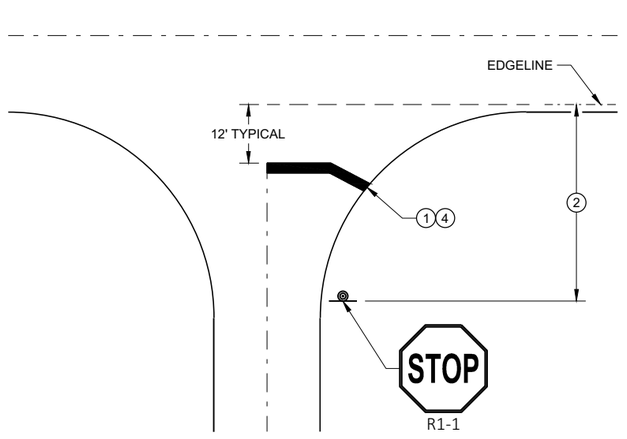


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING

TYPICAL PAVEMENT MARKING 5 FOR MID-BLOCK CROSSWALK



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

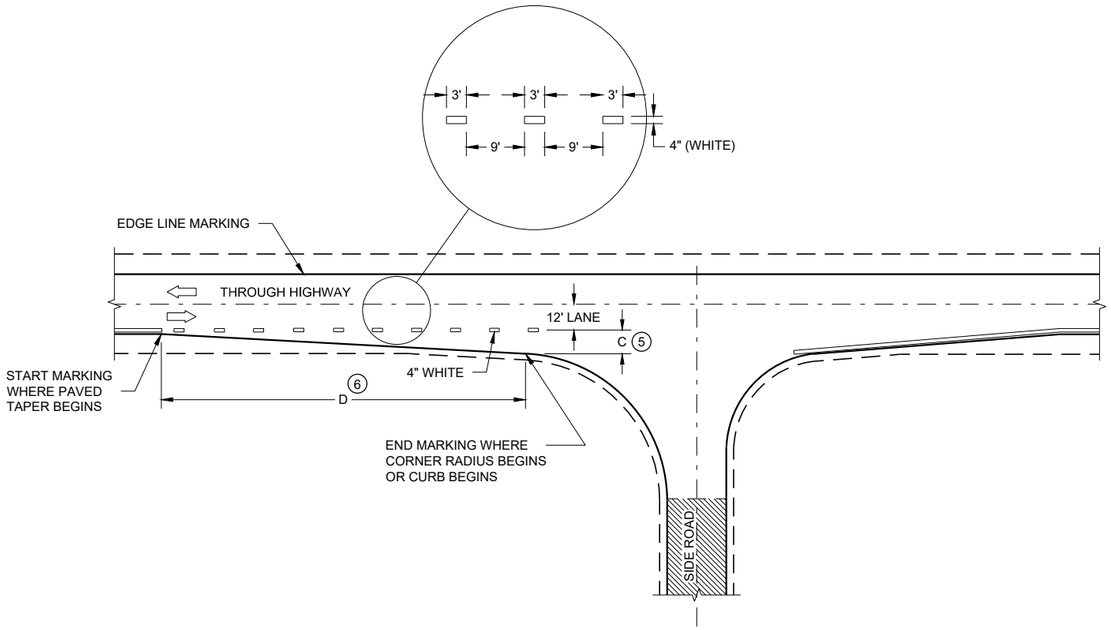
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SDD 15C33 - 04

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SDD 15C33 - 04



MINOR INTERSECTION

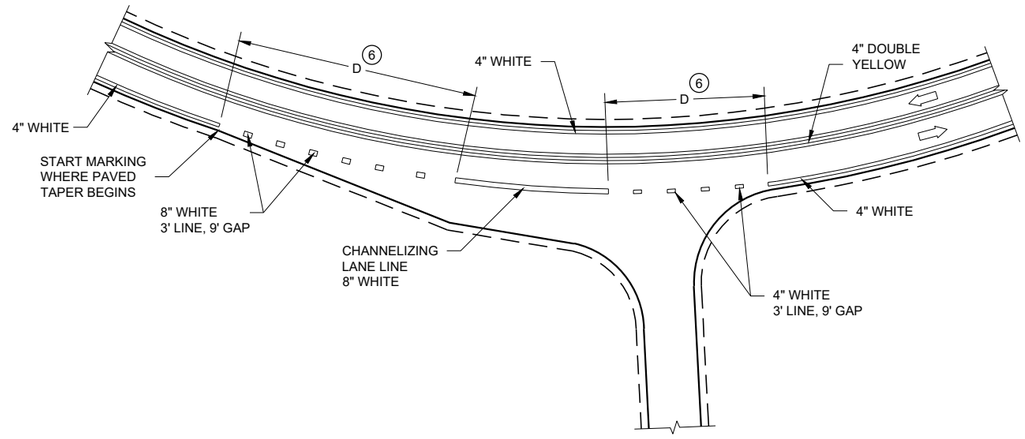
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

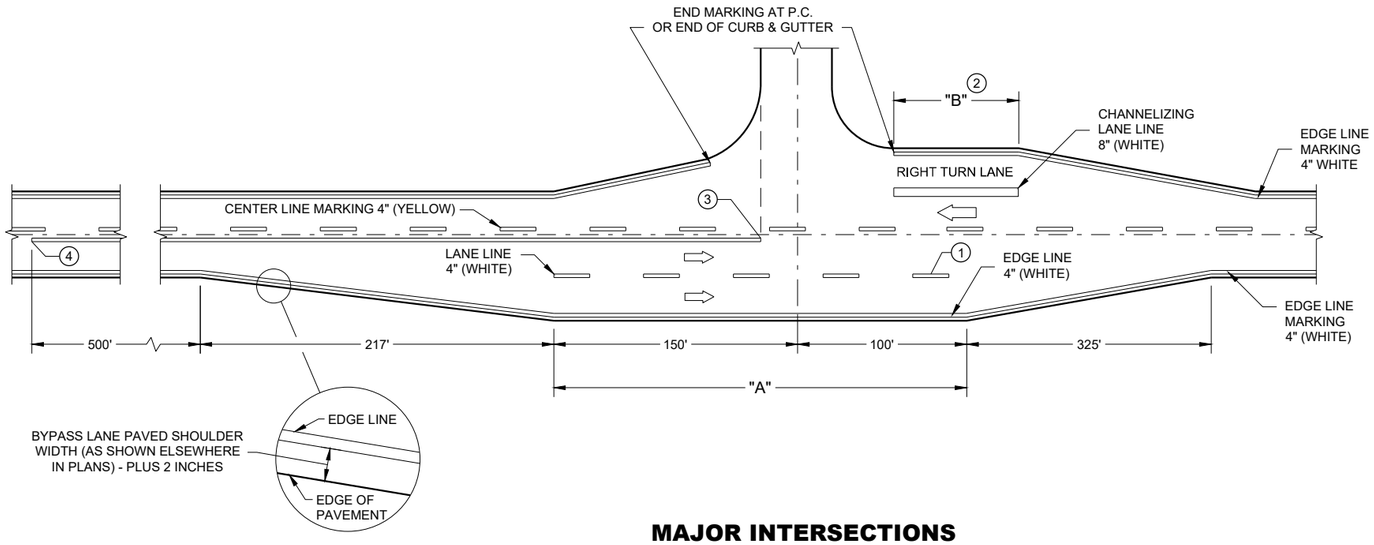
1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
5. WHEN DISTANCE "C" IS LESS THAN 4 FEET, OMIT DOTTED EXTENSION.
6. WHEN DISTANCE "D" IS LESS THAN 50 FEET, OMIT DOTTED EXTENSION.

LEGEND

DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

PAVEMENT MARKING (INTERSECTIONS)

SDD 15C35 - 05a

6

LEGEND

SIGN ON PERMANENT SUPPORT

DELINEATOR, FLEXIBLE/TUBULAR MARKER

DIRECTION OF TRAFFIC

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS.

A SINGLE ROW OF FLEXIBLE TUBULAR MARKERS ON CENTERLINE EXTEND FOR THE ENTIRE LENGTH OF TWO-WAY TRAFFIC AT 50 FOOT SPACING.

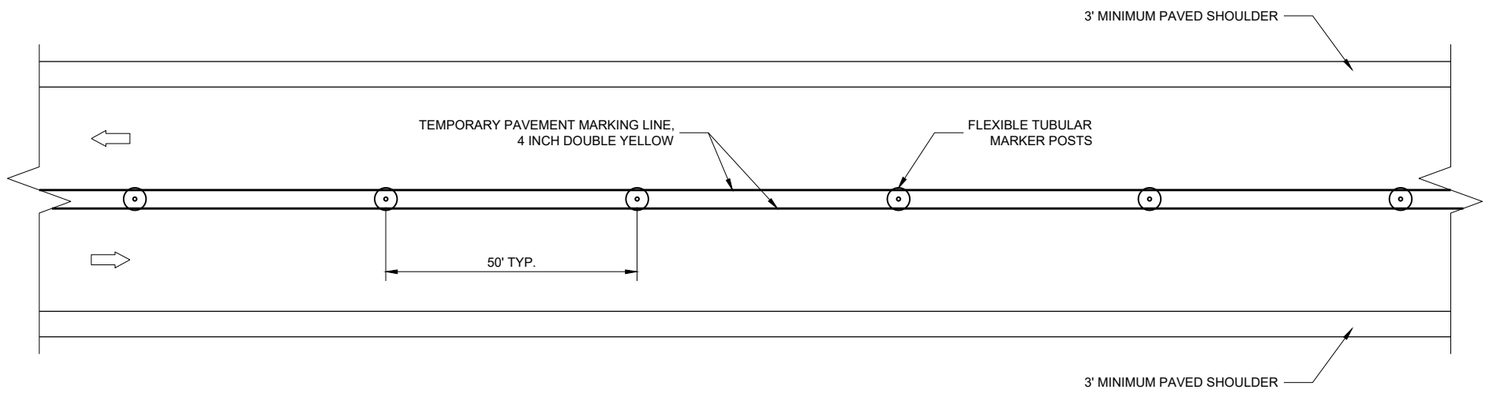
COVER EXISTING CENTERLINE STRIPE WITH TEMPORARY PAVEMENT MARKING LINE, 4 INCH DOUBLE YELLOW.



(1) THE WO6-3 AND WO57-51 SHALL BE LOCATED 200 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP AND / OR 500 FEET BEYOND ANY SIDE ROAD. THE R4-1 SHALL BE LOCATED 1000 FEET BEYOND THE WO6-3 AND THE WO57-51 AND THE SIGNS SHALL BE ALTERNATED WITH ONE MILE INTERVALS BETWEEN THE SIGNS.



(2) CONVENTIONAL: 24" X 30"
FREEWAY AND EXPRESSWAY: 36" X 48"



TWO LANE, TWO WAY OPERATION

6

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SDD 15D06 - 05

SDD 15D06 - 05

TRAFFIC CONTROL
TWO LANE TWO WAY
OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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 AND PLACE TEMPORARY PAVEMENT MARKING LINE 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.

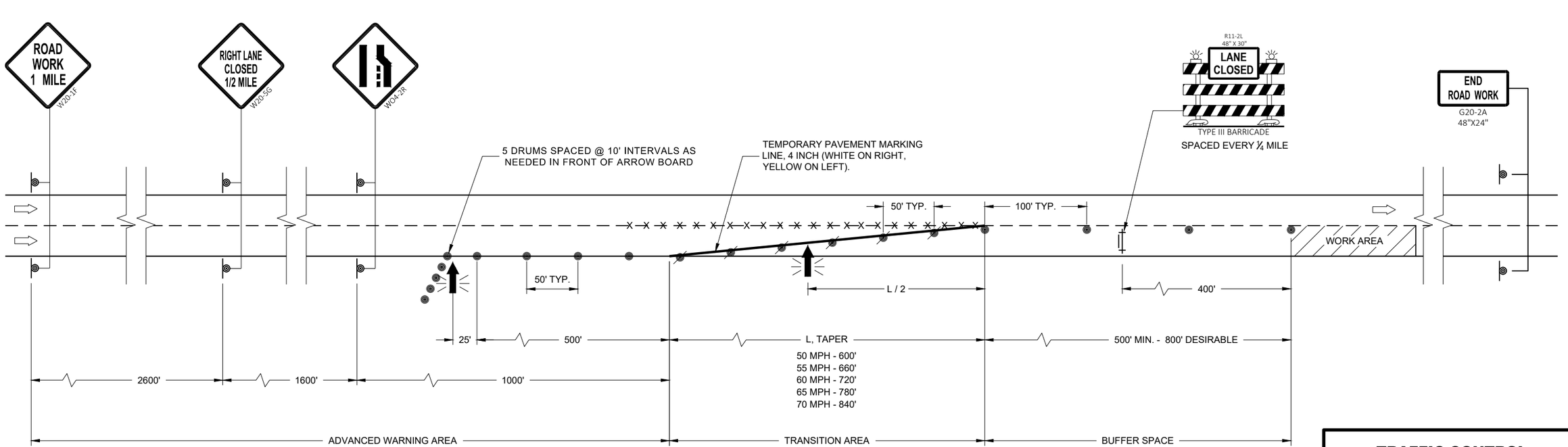
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

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SDD 15D12 - 10a

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SDD 15D12 - 10a

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45MPH, USE SDD 15D12.

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.

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 REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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 TEMPORARY SUPPORTS.

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 TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

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.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

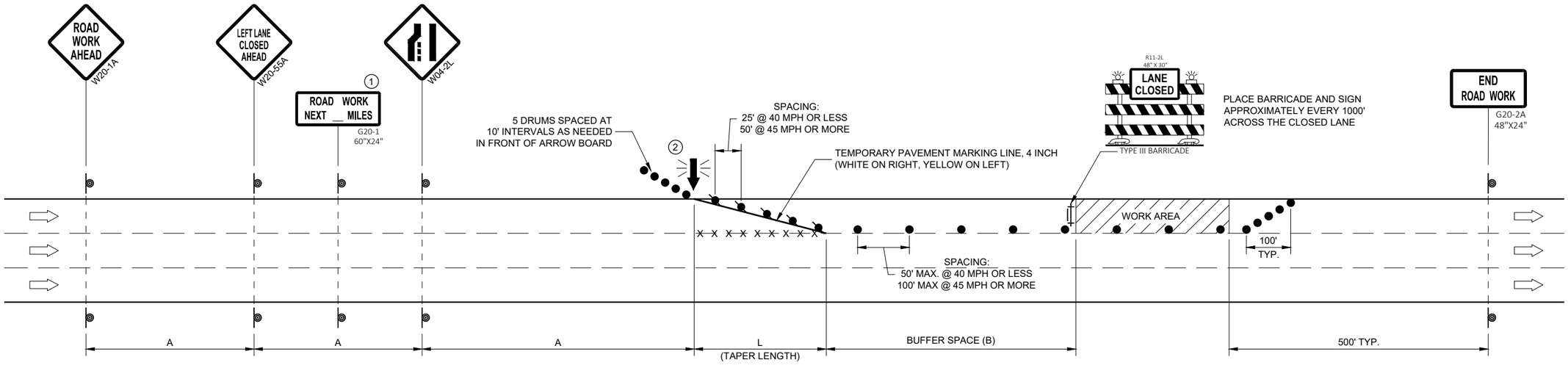
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

(2) WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO PLACE THE ARROW BOARD AS SHOWN, PLACE THE ARROW BOARD AT THE END OF THE TAPER.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'

TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

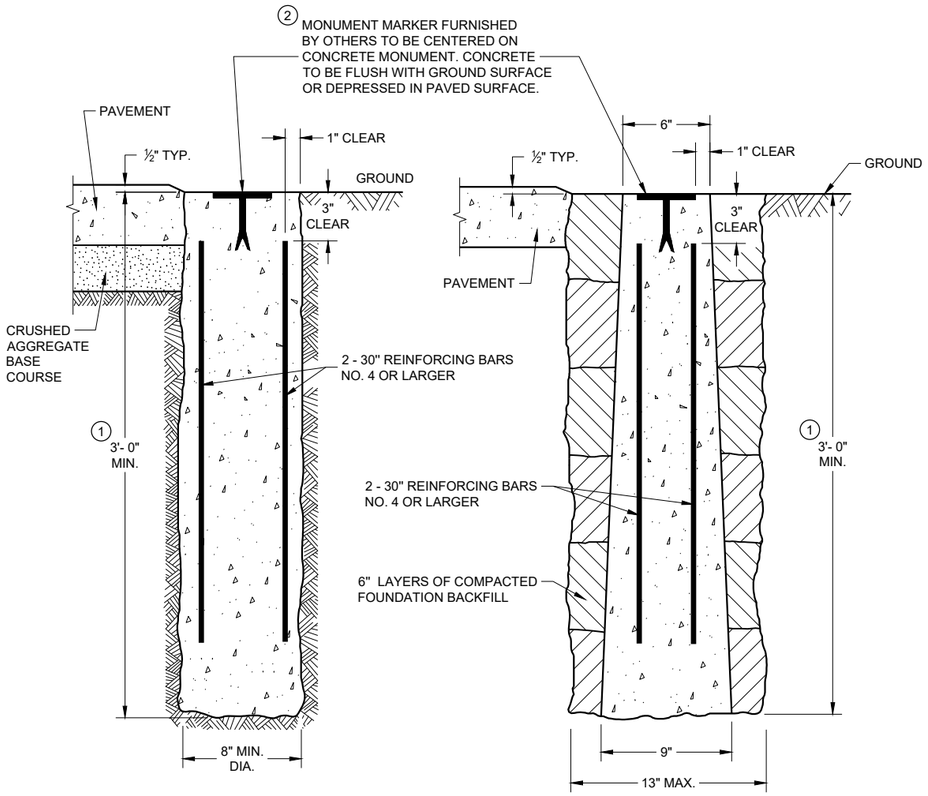
APPROVED
February 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

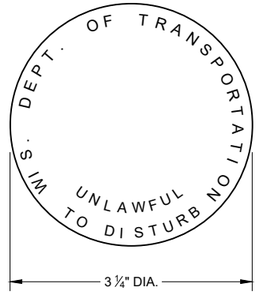
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SDD 15D20 - 06a



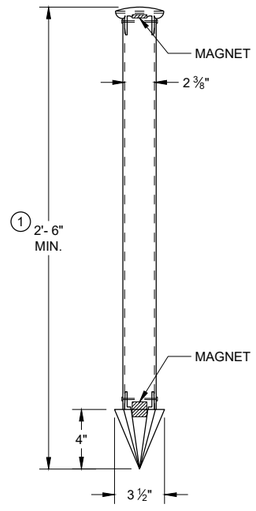
CAST-IN-PLACE **PRECAST**

CONCRETE MONUMENTS
TYPE A

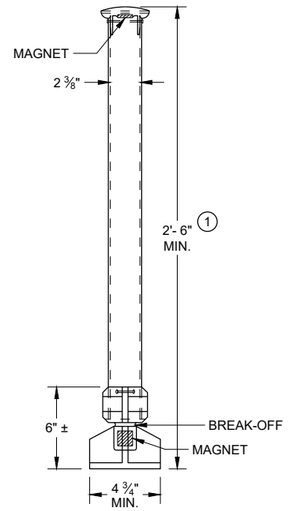


② **WIS DOT MONUMENT MARKER LOGO**

FOR TYPES "A", "C" & "D"

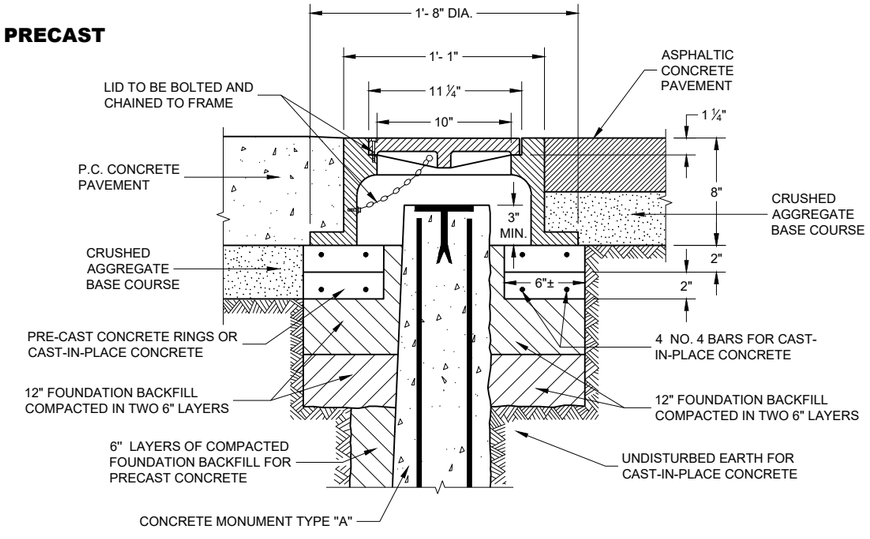


TYPE C
DRIVEN MONUMENT



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.

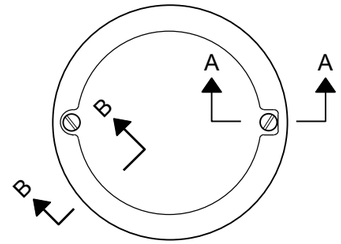
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

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.

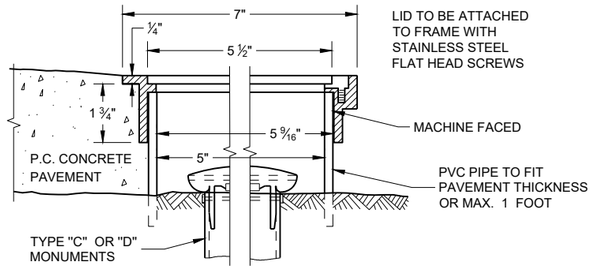
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER.

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 WISDOT 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. Kumapayii
CHIEF SURVEYING AND MA
ENGINEER

FHWA

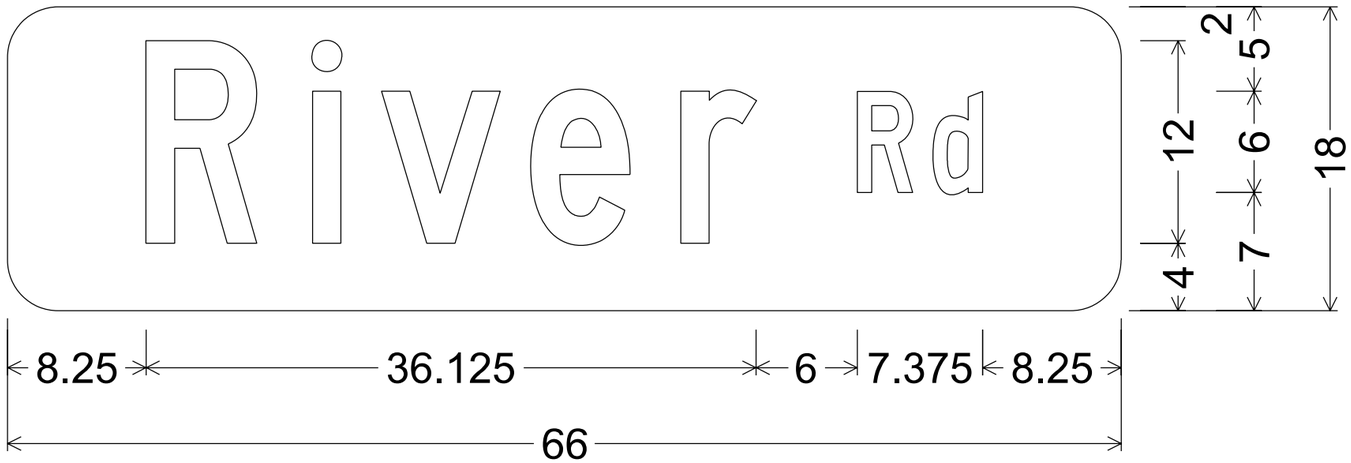
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SDD 16A01 - 07

SDD 16A01 - 07

NOTES

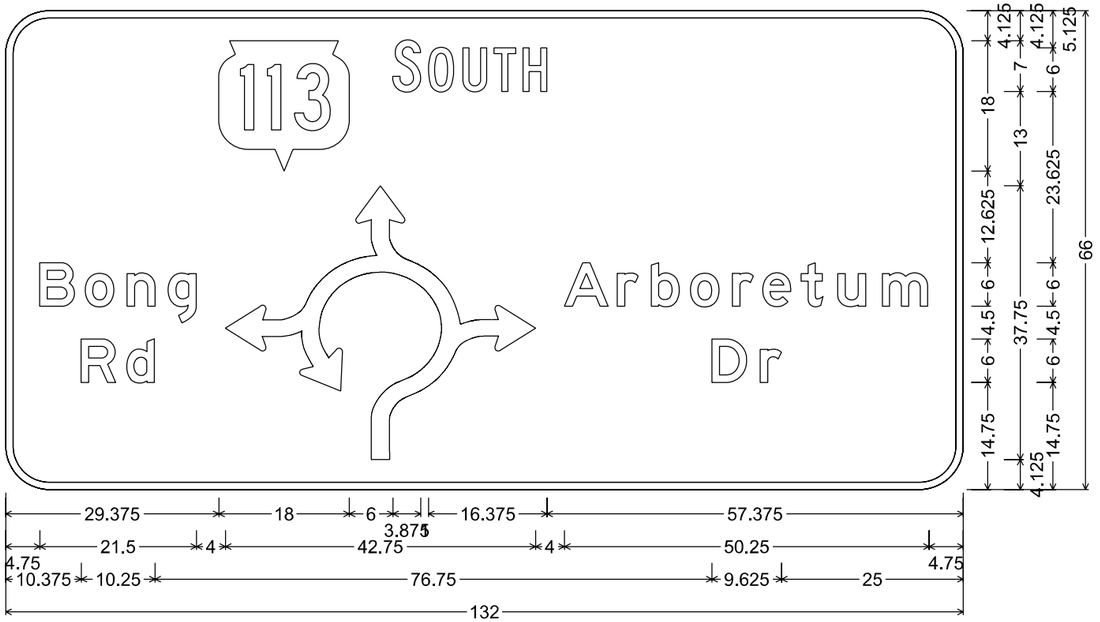
1. Sign is Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - C



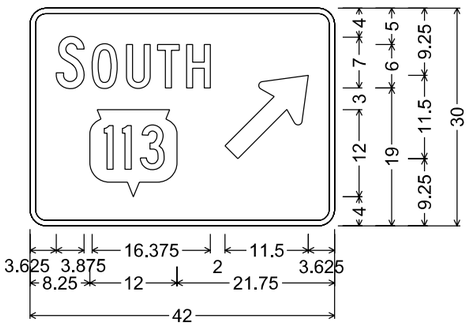
M1-94H; 3.000" Radius, No border

NOTES

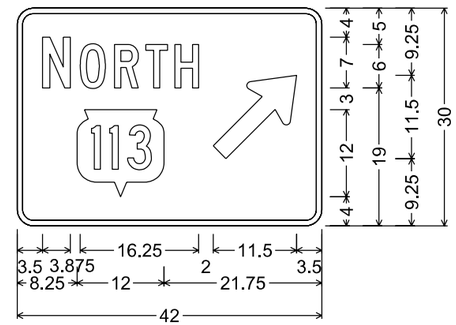
1. Signs are Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E except as noted



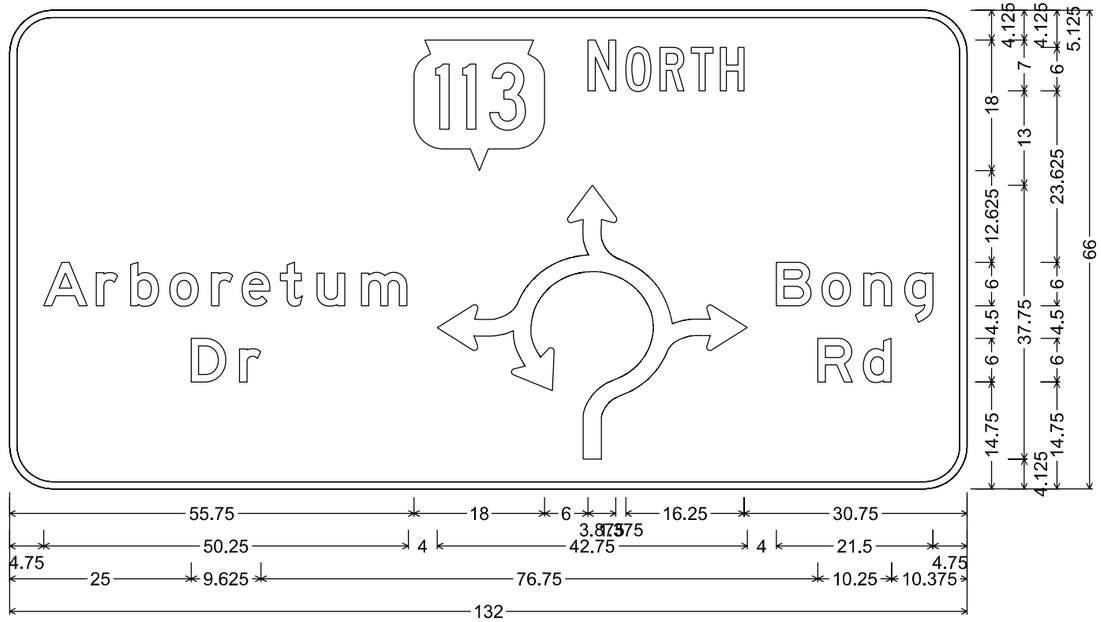
D1-62; 6.000" Radius, 1.000" Border,
"SOUTH", C



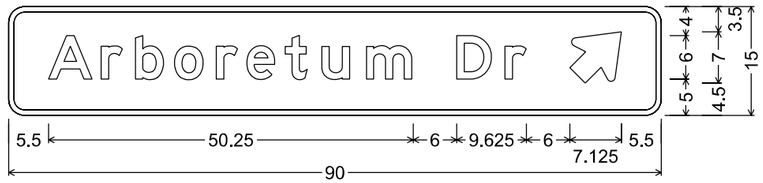
D1-1; 2.250" Radius, 0.750" Border,
"SOUTH", C



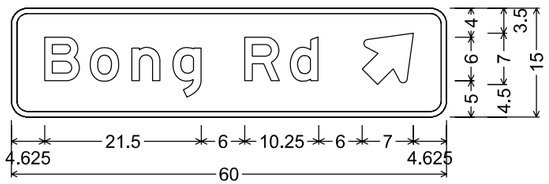
D1-1; 2.250" Radius, 0.750" Border,
"NORTH", C



D1-62; 6.000" Radius, 1.000" Border,
"NORTH", C

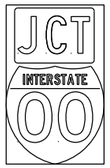


D1-1; 2.250" Radius, 0.750" Border, White on, Green;

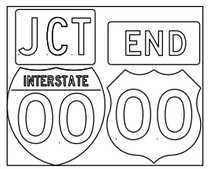


D1-1; 2.250" Radius, 0.750" Border, White on, Green;

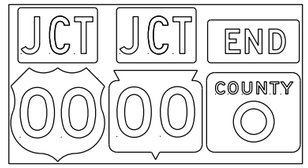
TYPICAL ASSEMBLIES



J1-1



J1-2



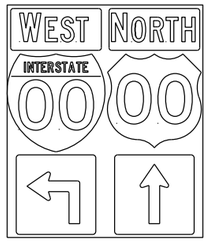
J1-3



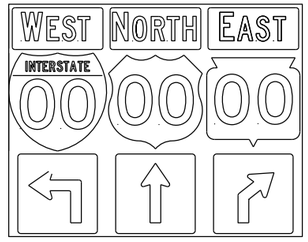
JR1-1



J2-1



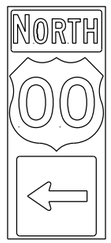
J2-2



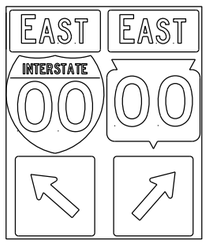
J2-3



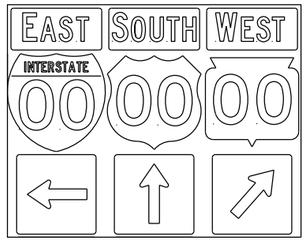
JV
(Typical Vertical J-Assembly
See Note 10 and 11)



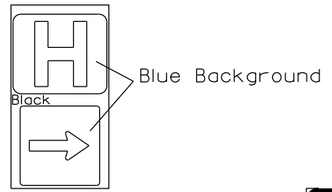
J3-1



J3-2



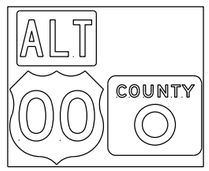
J3-3



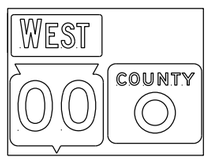
JH-1



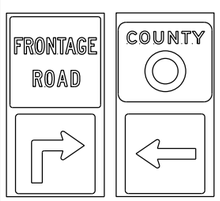
J4-1



J4-2

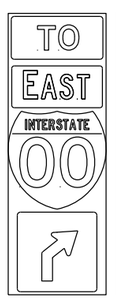


J4-2

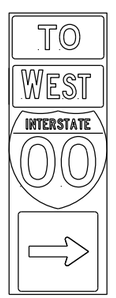


J12-1

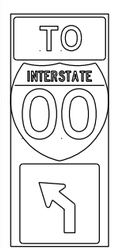
J13-1



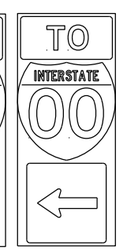
J32-1



J33-1



J22-1



J23-1



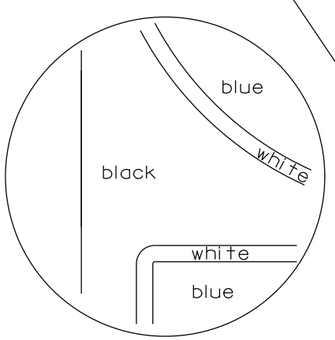
JR13-1



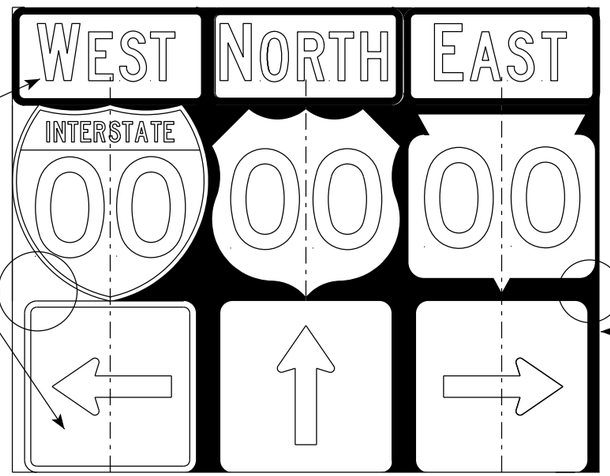
JR23-1

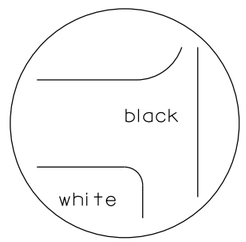


JR99-1



blue background
with interstate





black background

NOTES

1. Signs are Type II - Type H Reflective
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/21 PLATE NO. A2-1S.9

PROJECT NO:

SHEET NO: 349 E

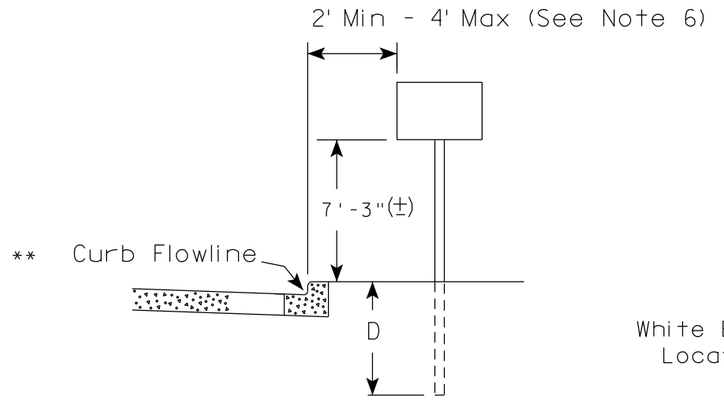
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WISDOT/CADDS SHEET 42

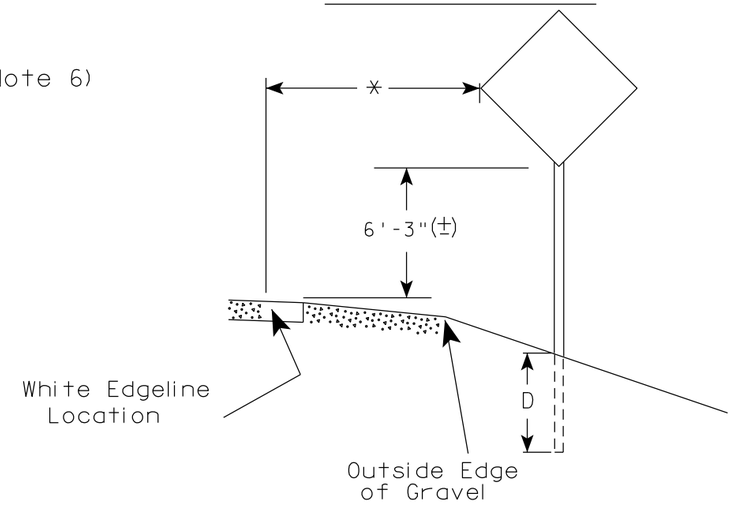
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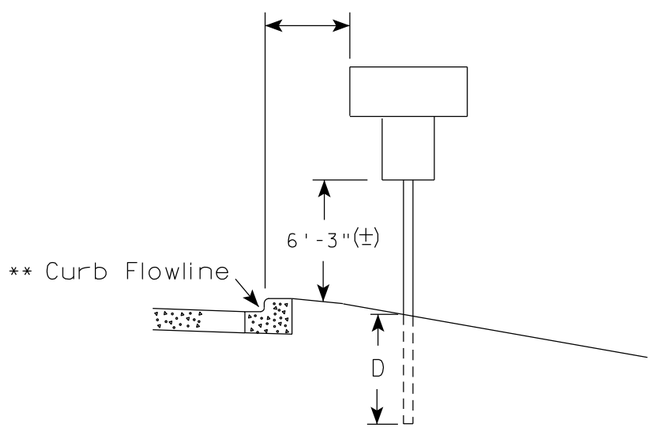
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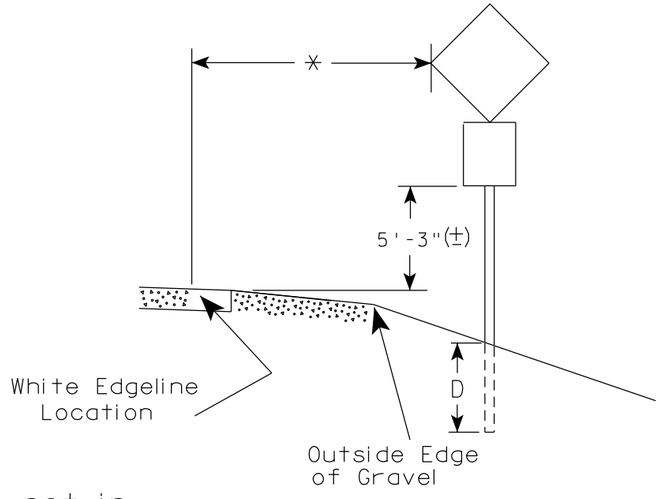
URBAN AREA



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 or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) 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" (±).
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.

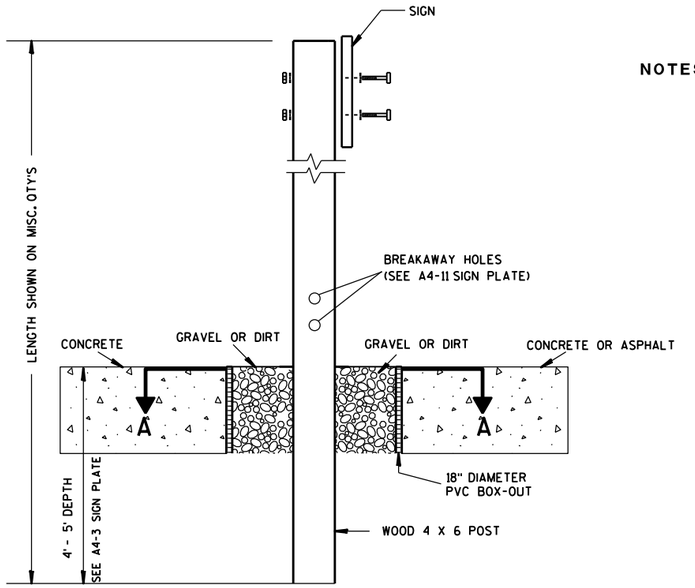
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

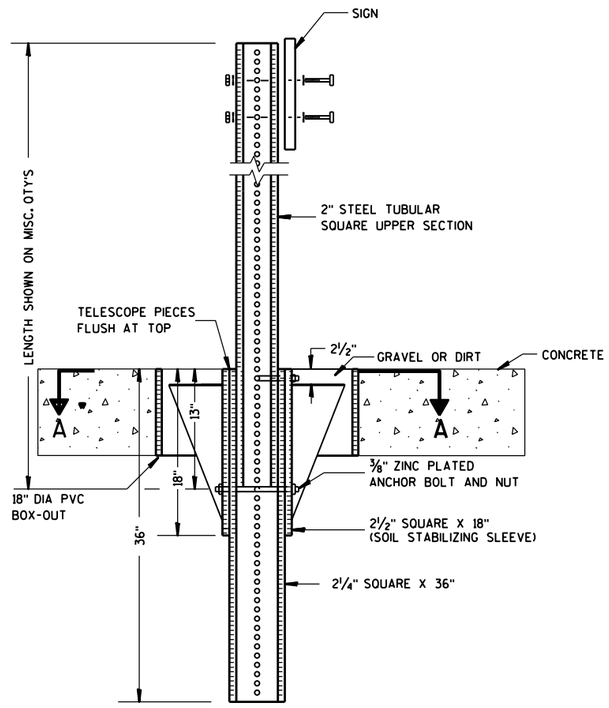
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 350	E



ELEVATION VIEW

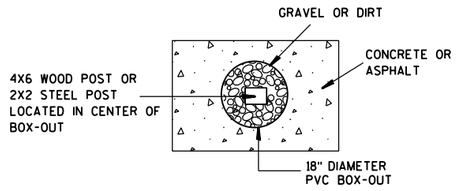
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

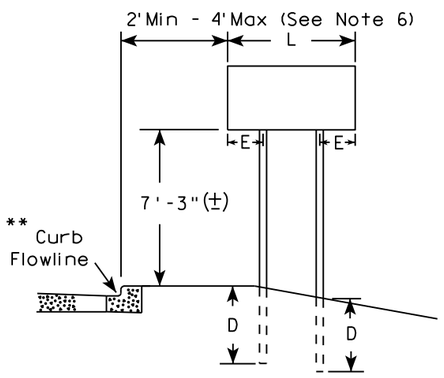
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

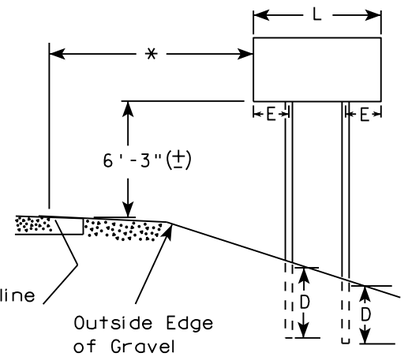
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

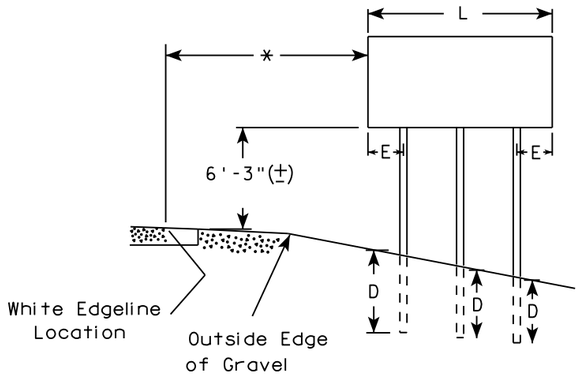
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

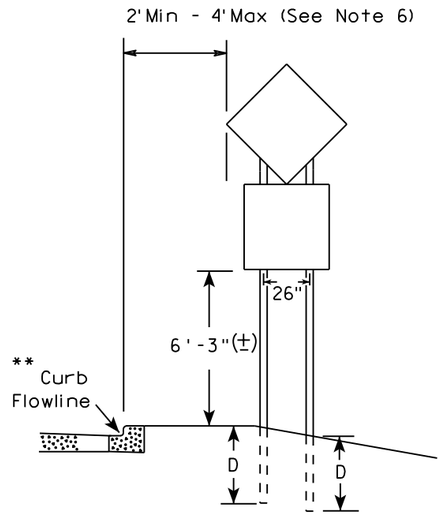
URBAN AREA



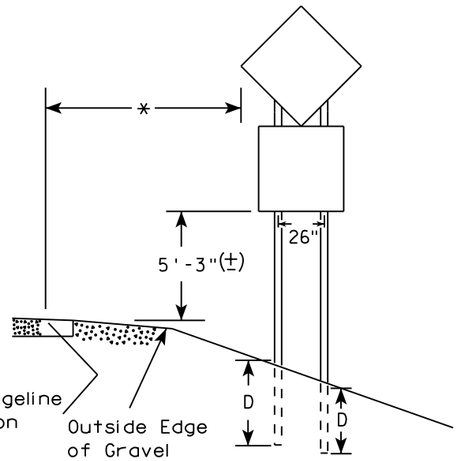
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E
***	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

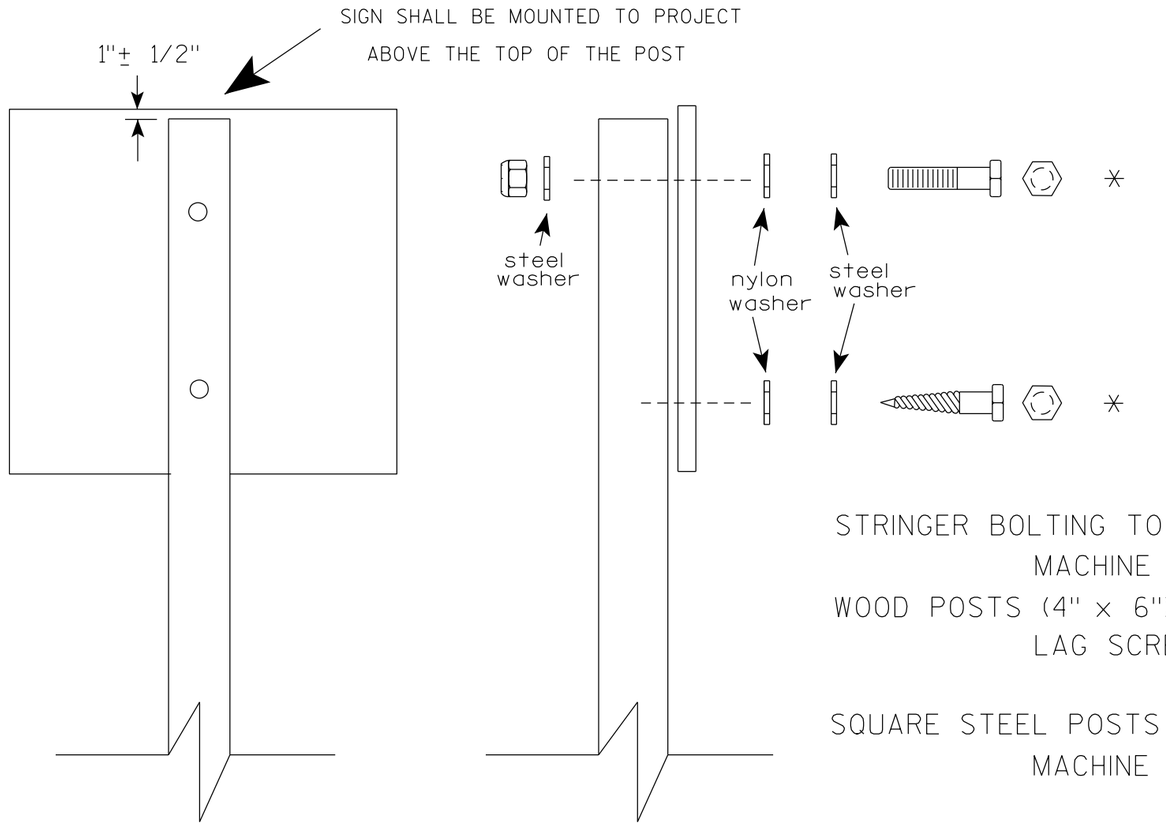
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 352	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 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

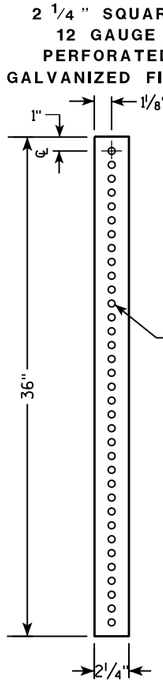
DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

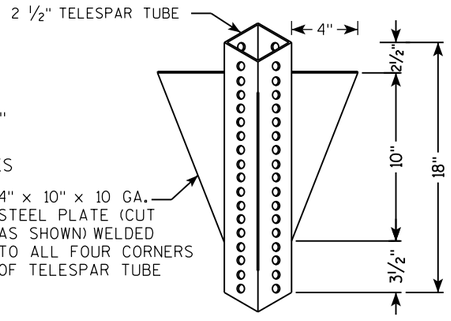
SHEET NO: 353 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

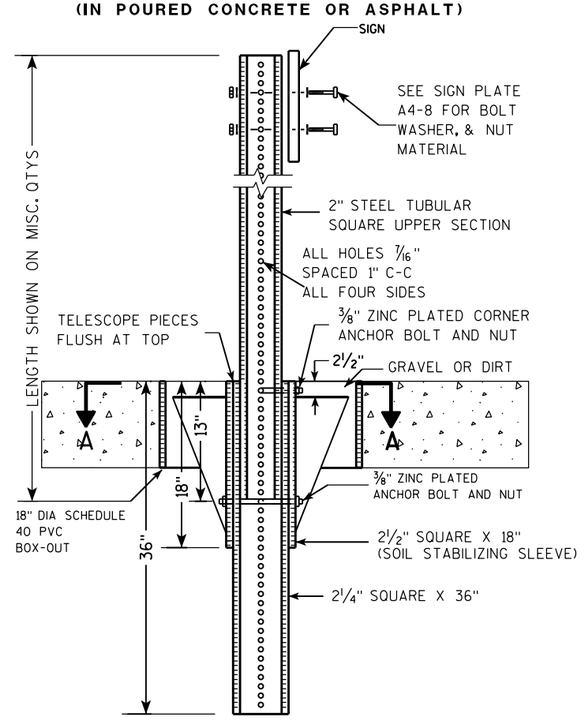
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



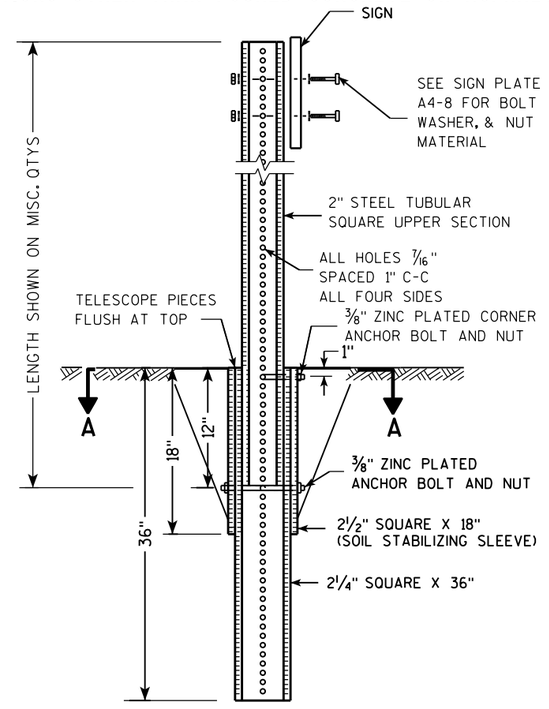
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

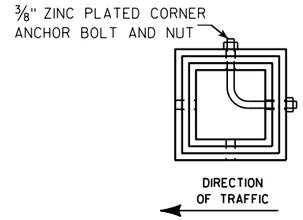


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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

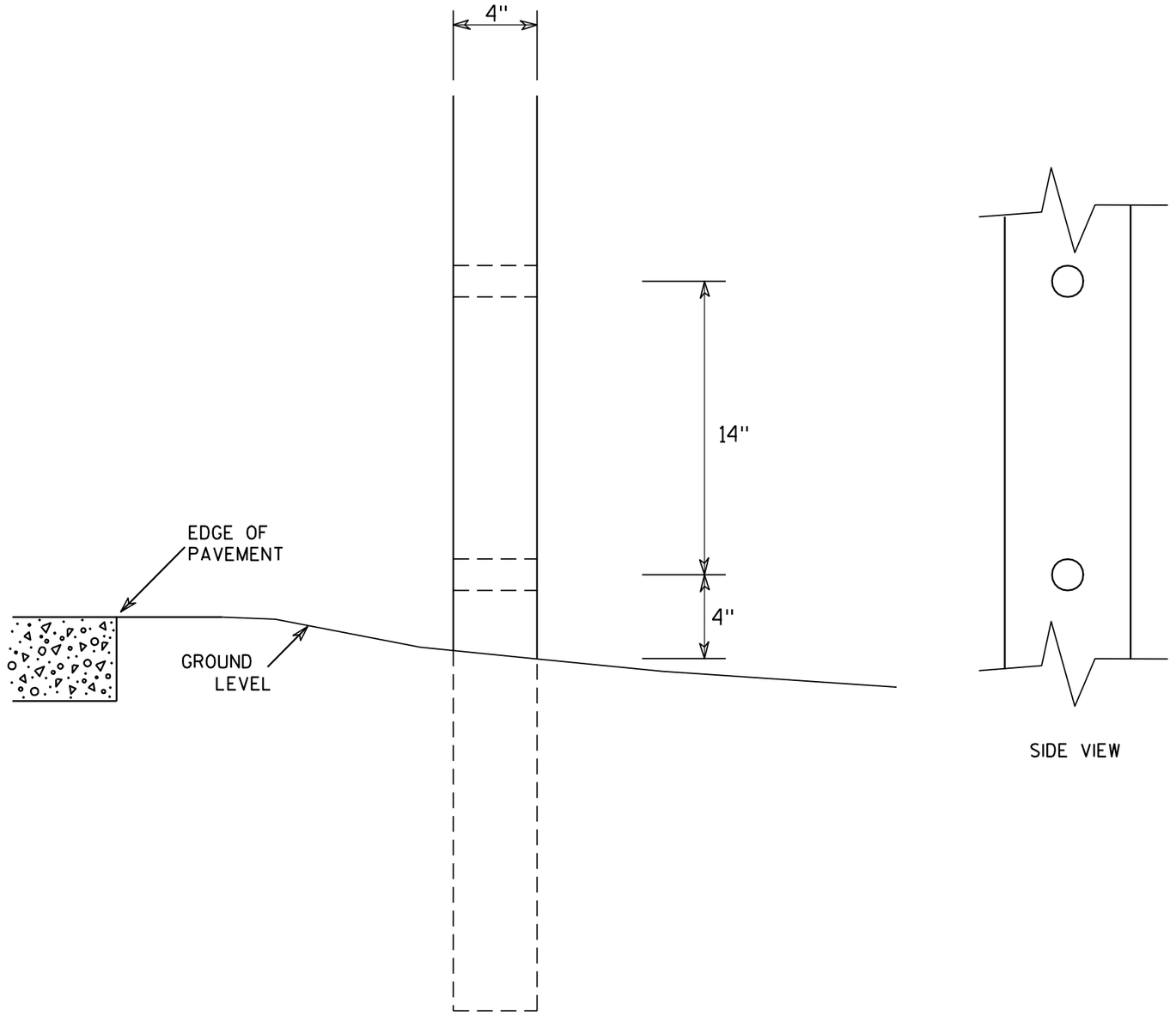
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 354 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000

WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

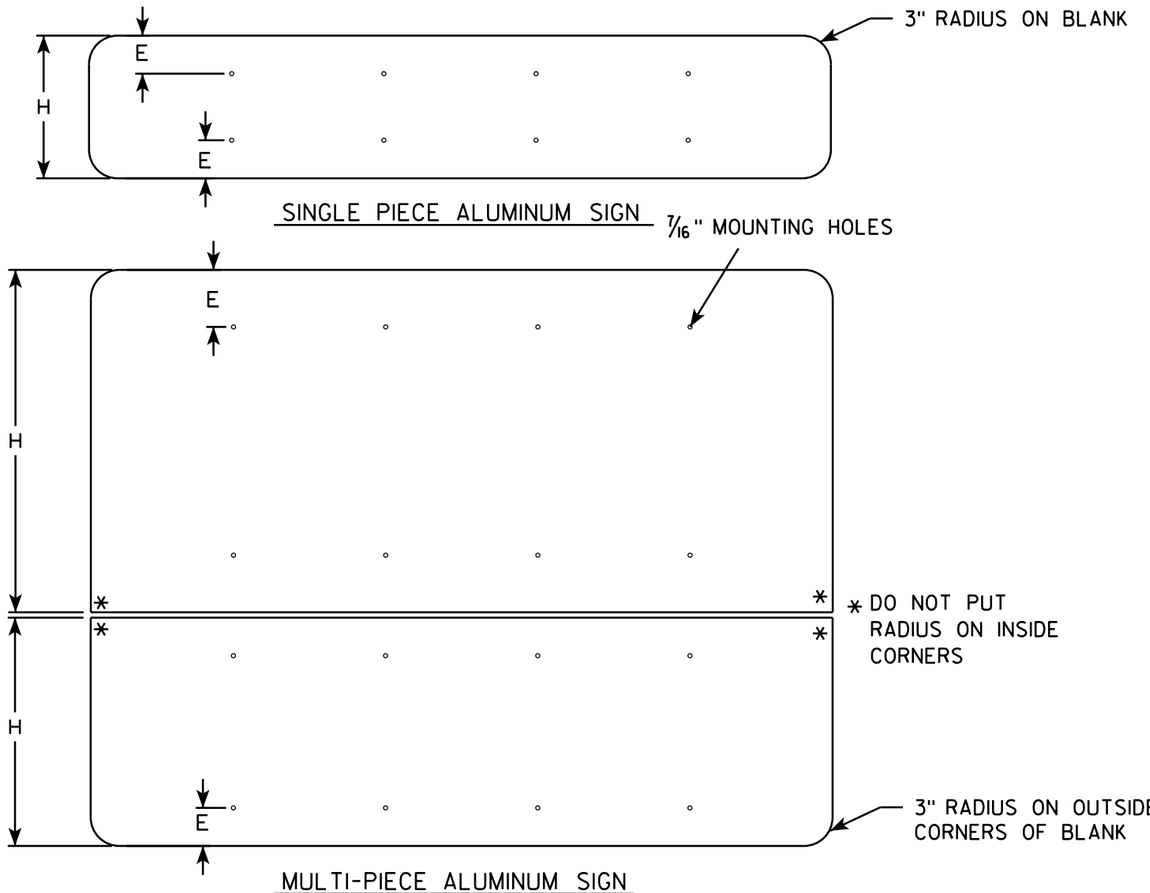
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

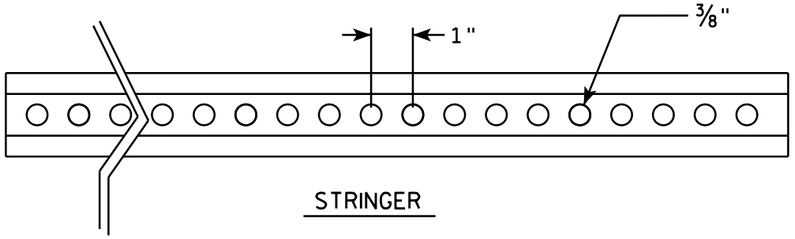
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 355	E



GENERAL NOTES

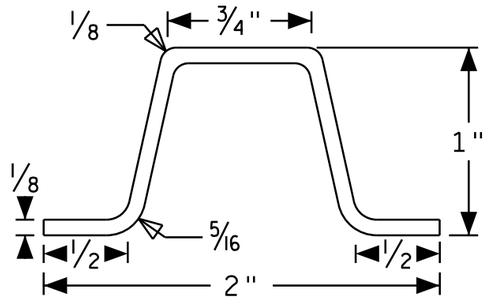
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

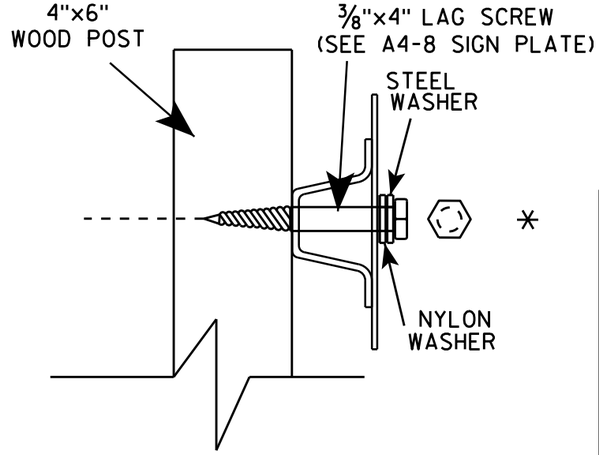


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

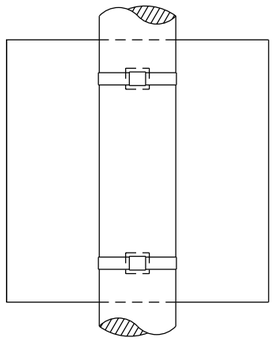
DATE 4/26/16 PLATE NO A4-18.1

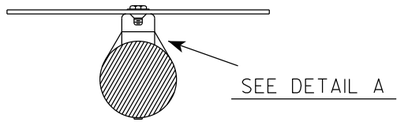
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

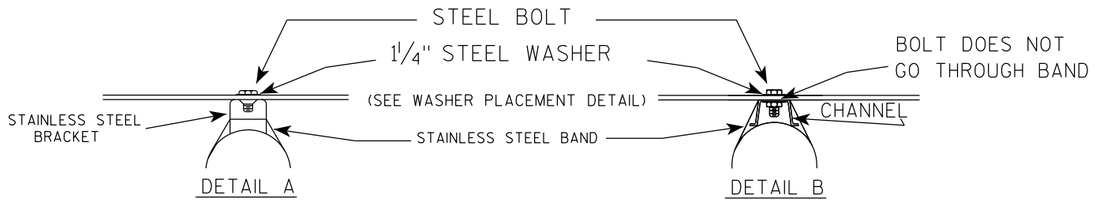
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BANDING

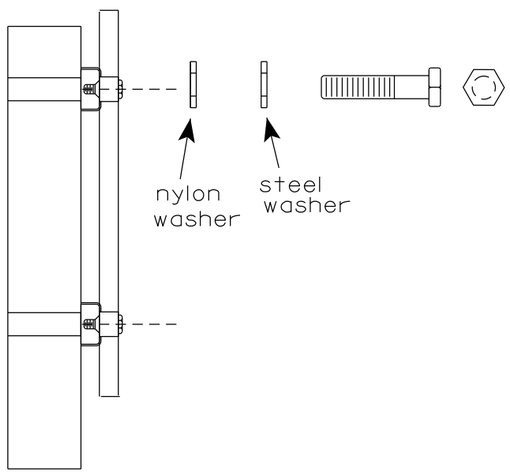
SINGLE SIGN







WASHER PLACEMENT

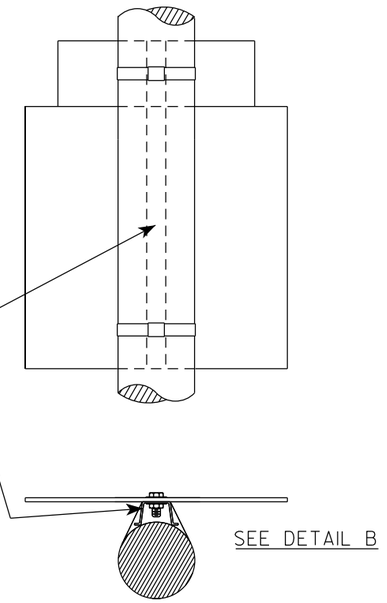


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

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

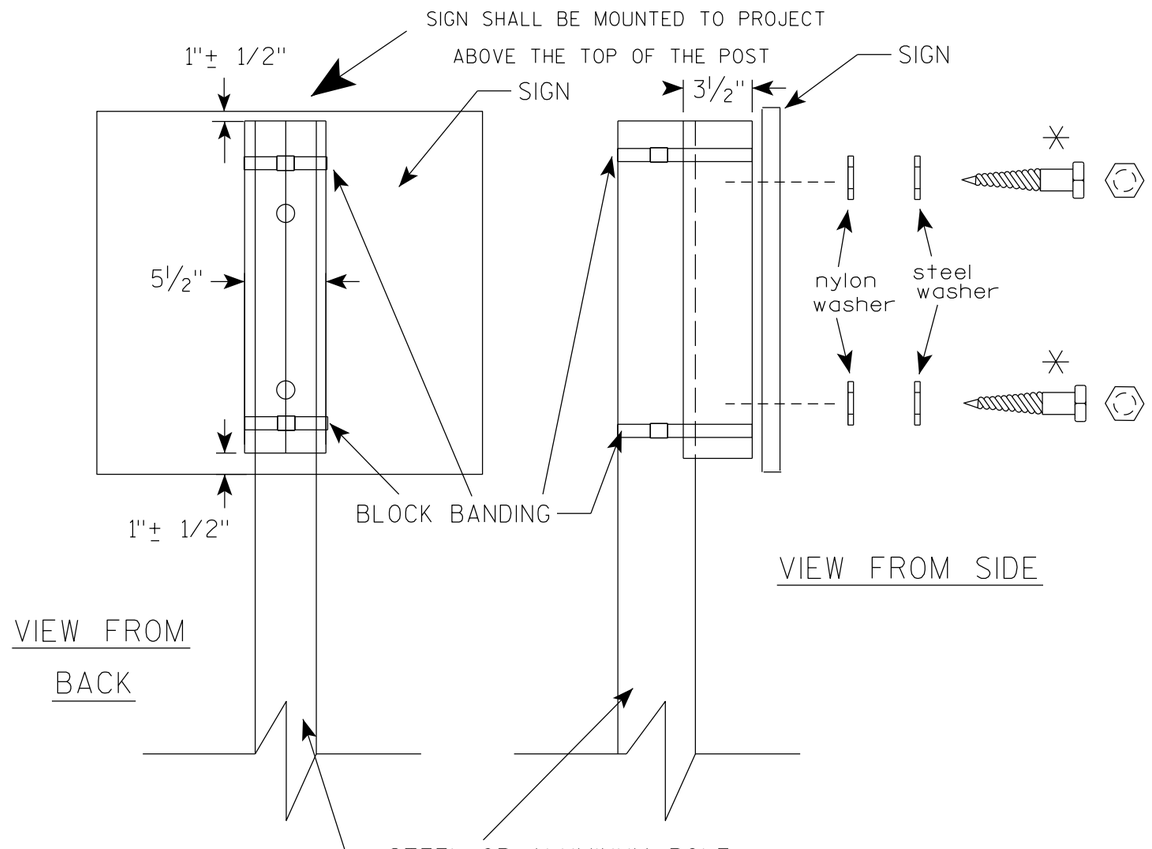
DATE 6/10/19 PLATE NO. A5-9.4

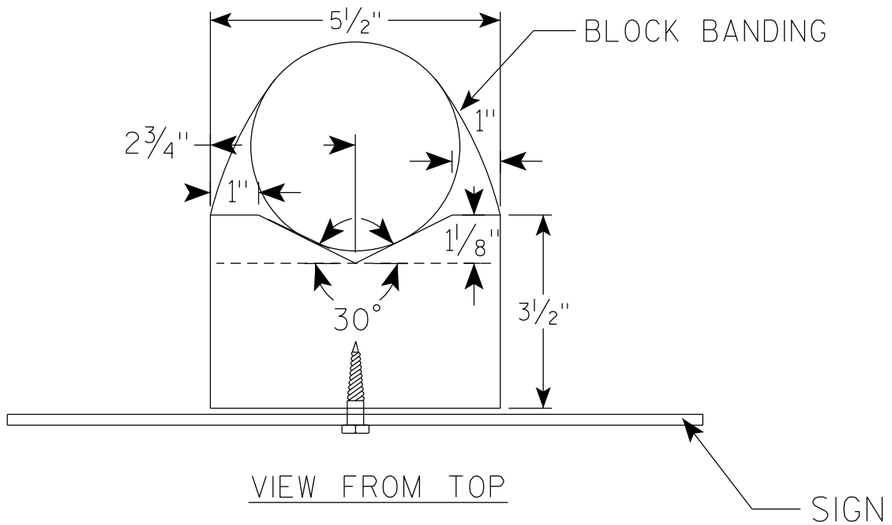
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 357	E

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

7





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)

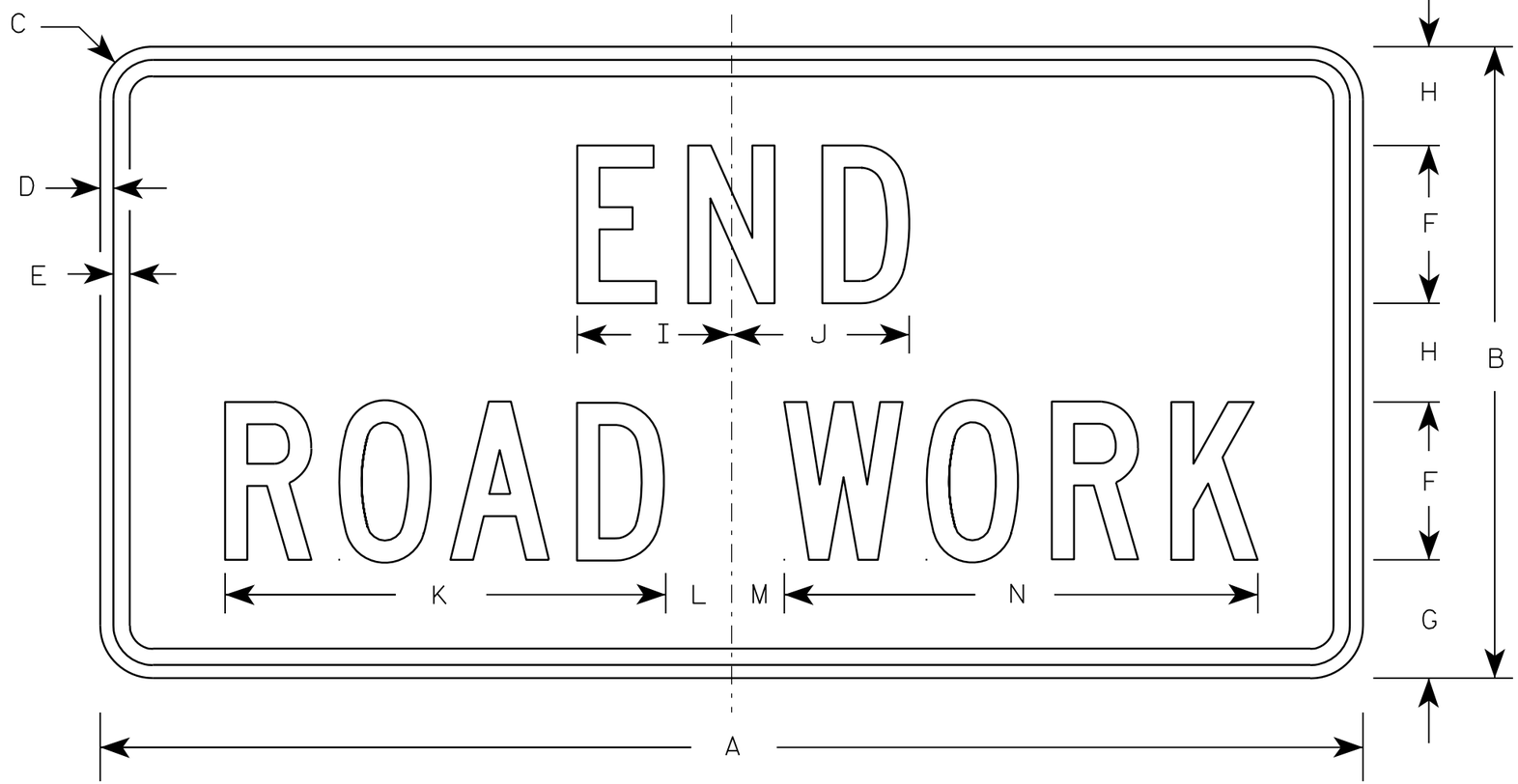
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

SHEET NO: 358 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

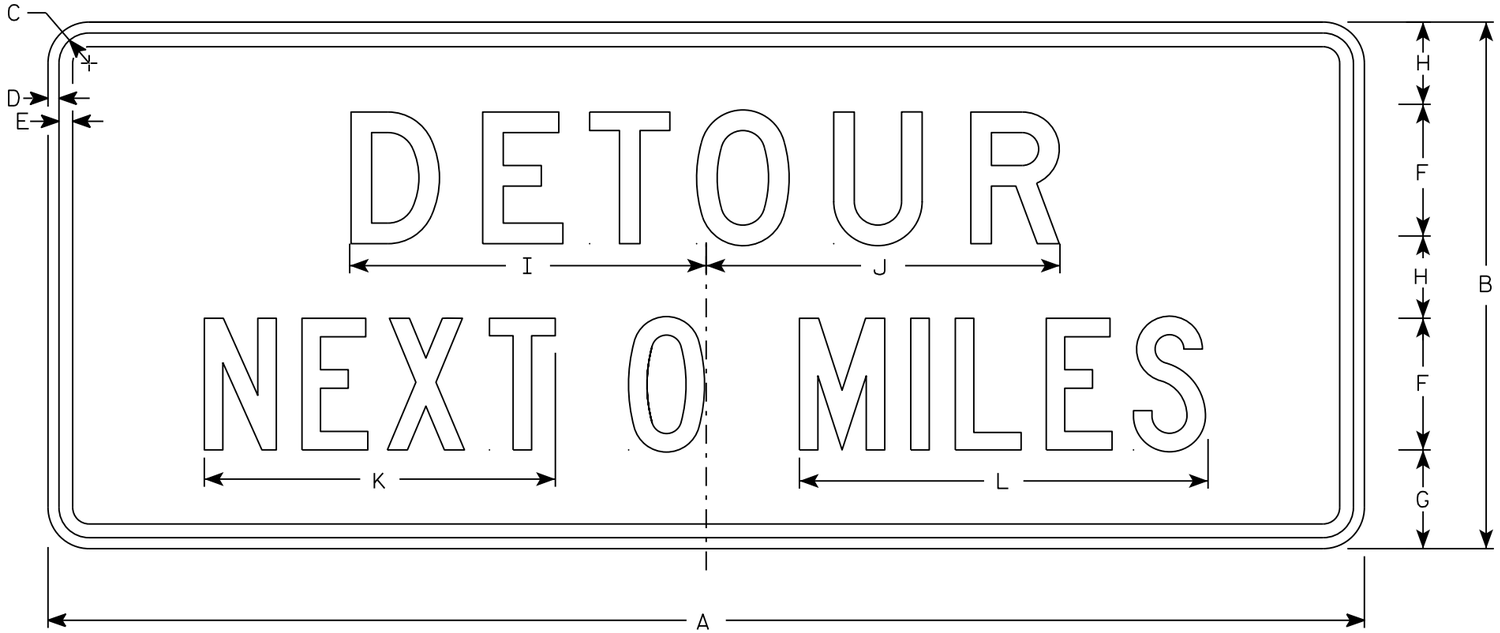
STANDARD SIGN
G20-2A

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: 359	E



G20-51

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - Line 1 is D and Line 2 is 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. Round distance to nearest whole Mile and 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																											
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4	16 1/8	16	18 5/8															10
3																											
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4	16 1/8	16	18 5/8															10
5																											

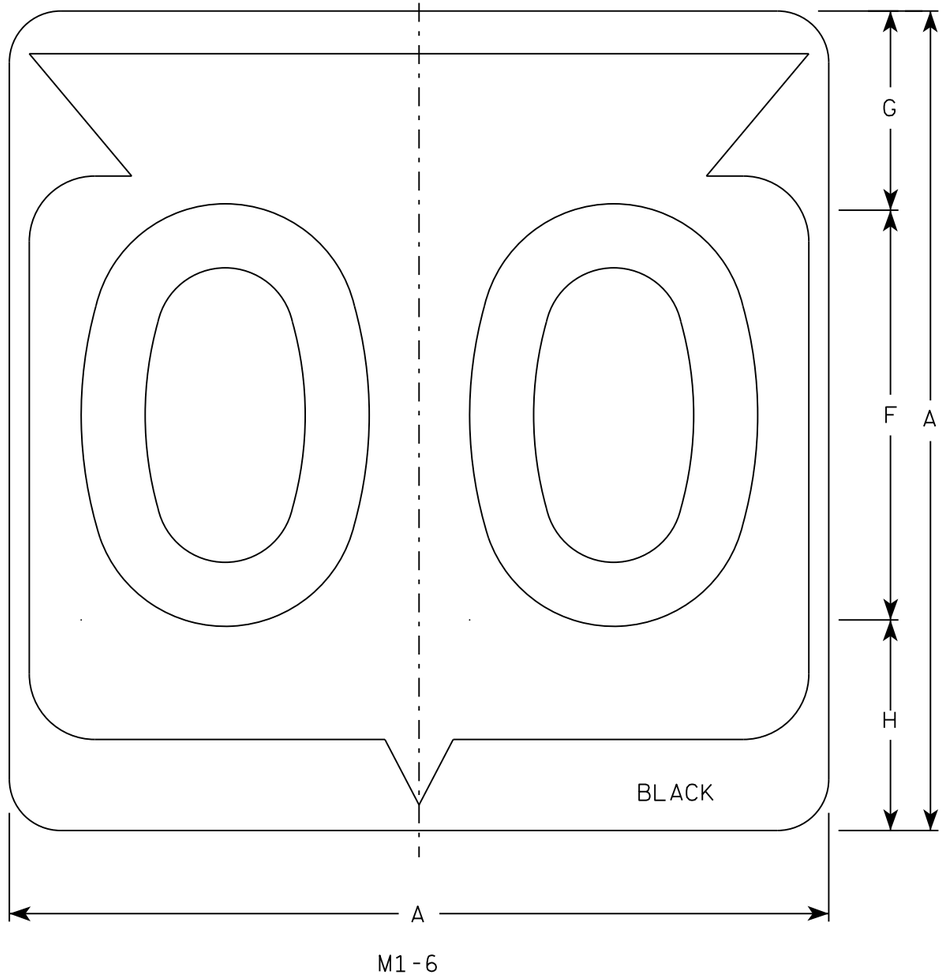
STANDARD SIGN
G20-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/14/17 PLATE NO. G20-51.2

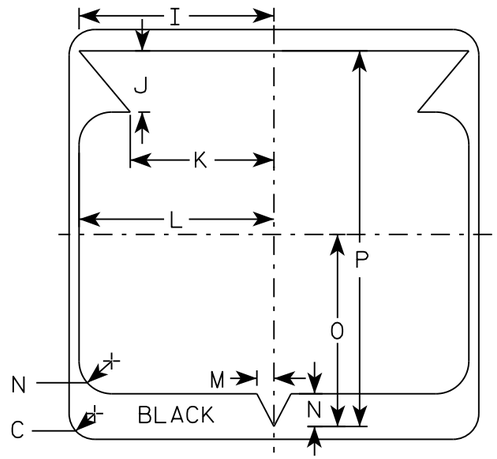
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 360 | E



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

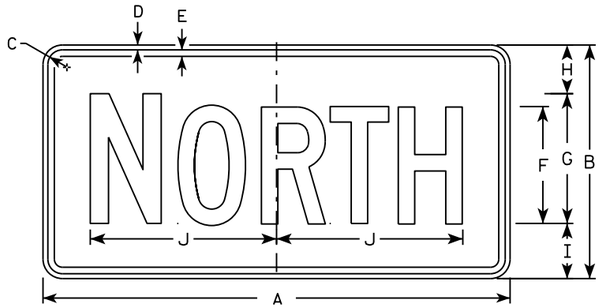
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

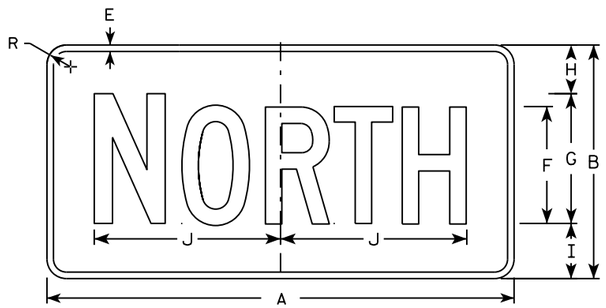
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 361 | E



M3-1
MM3-1
MP3-1



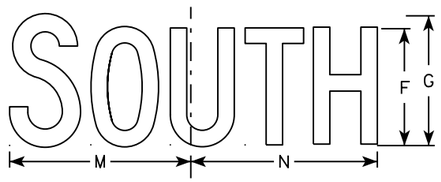
MB3-1
MK3-1
MN3-1



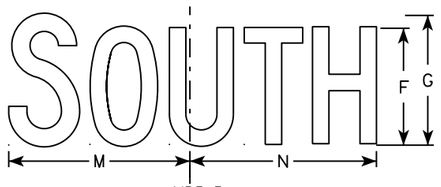
M3-2
MM3-2
MP3-2



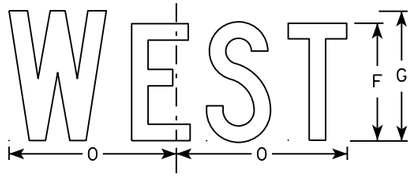
MB3-2
MK3-2
MN3-2



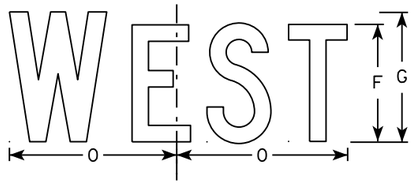
M3-3
MM3-3
MP3-3



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

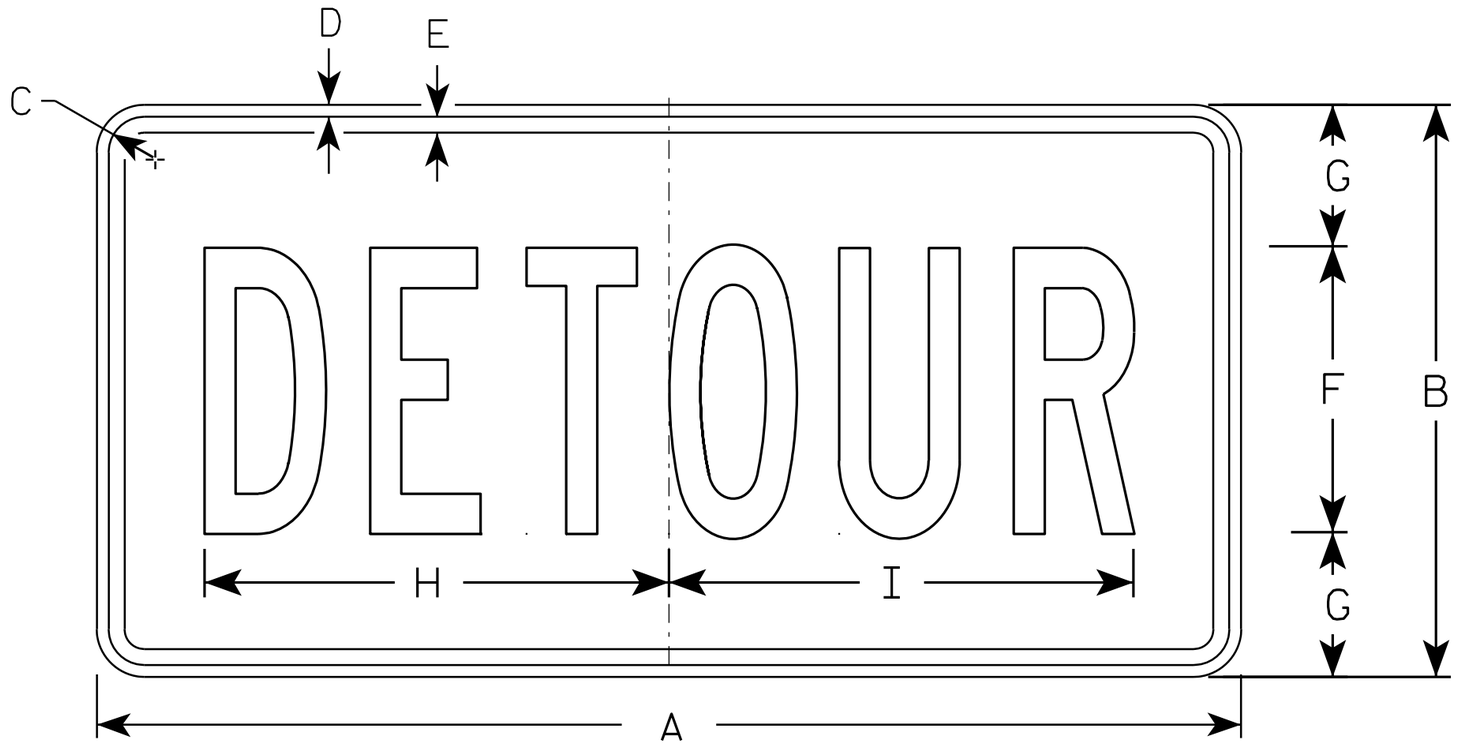
WISCONSIN DEPT OF TRANSPORTATION

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



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

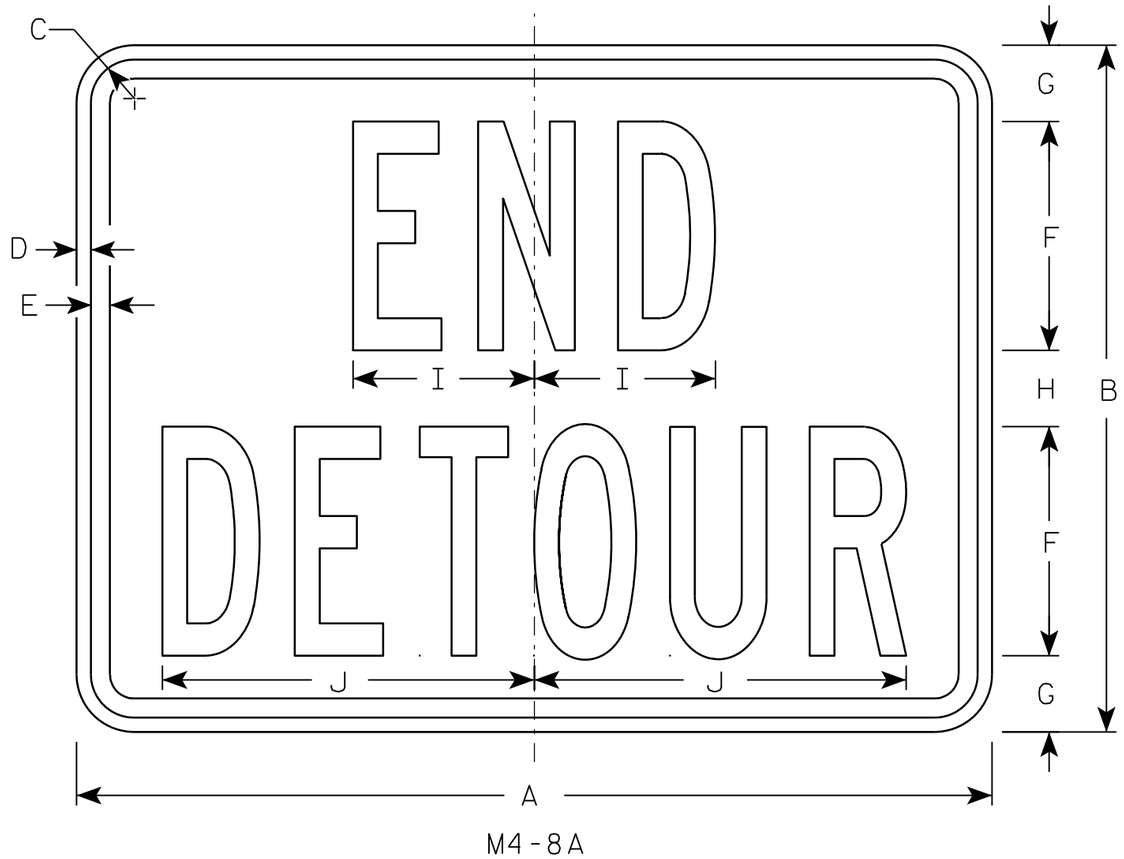
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 363	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

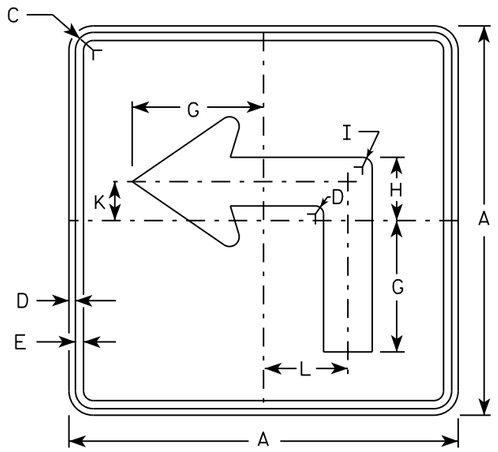
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

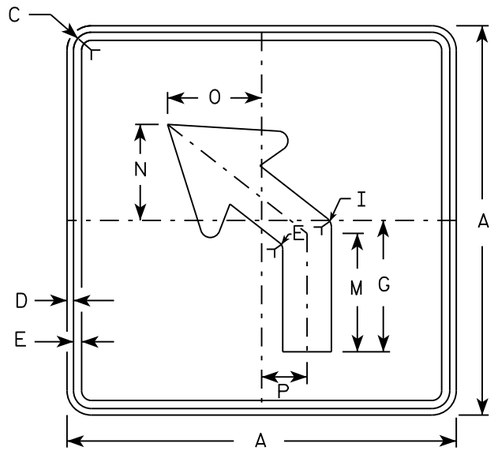
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

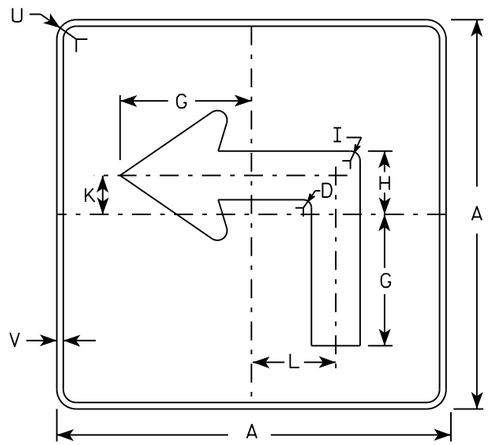
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 364	E



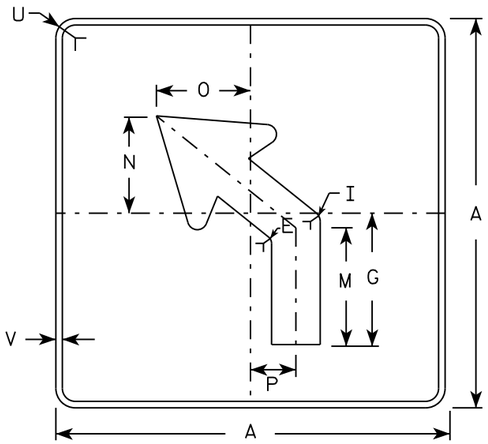
M5-1L
MM5-1L
MO5-1L
MP5-1L



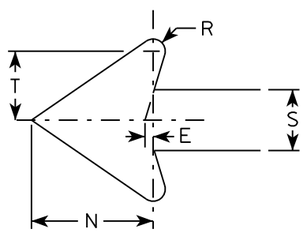
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

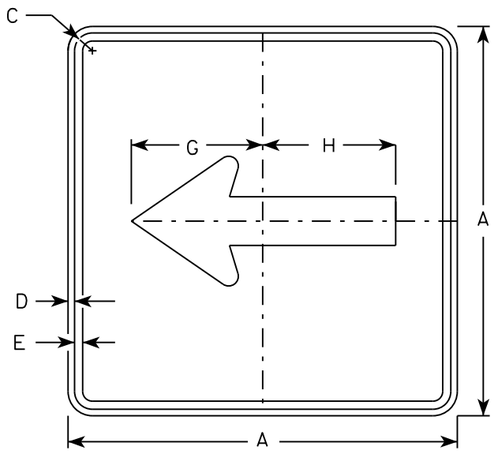
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

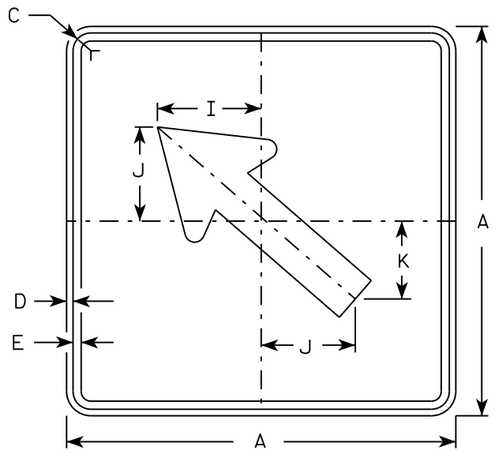
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



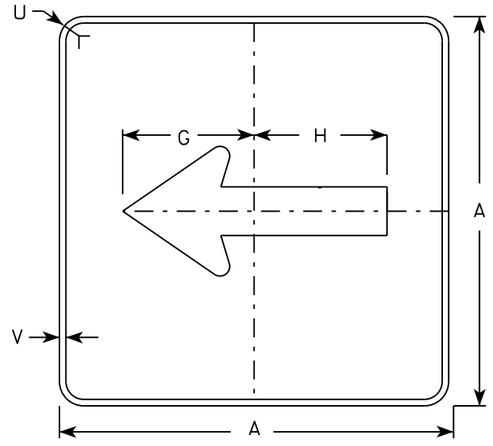
M6-1
MM6-1
MO6-1
MP6-1



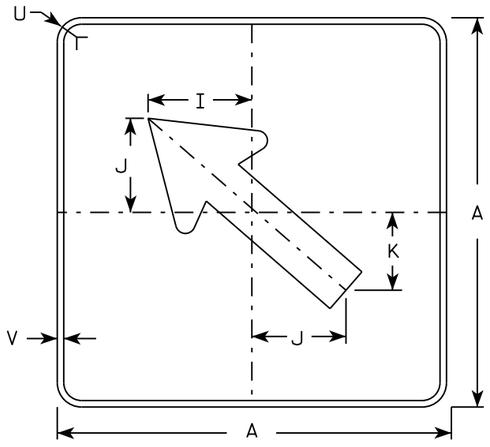
M6-2
MM6-2
MO6-2
MP6-2

NOTES

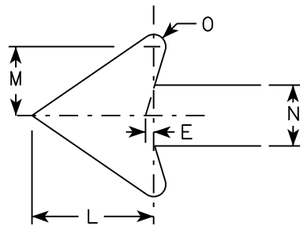
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

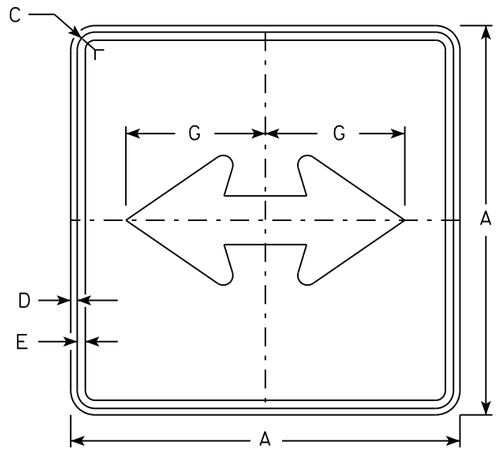
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

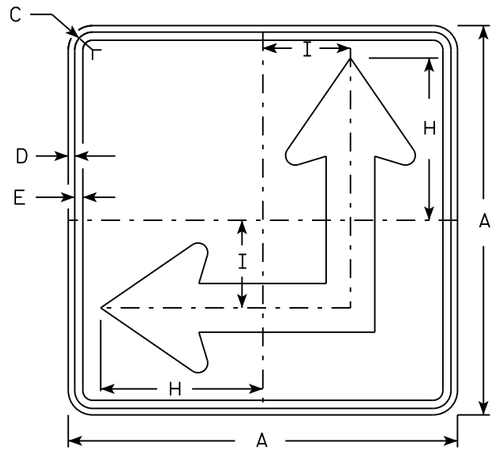
DATE 10/15/15 PLATE 366 M6-1.15

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



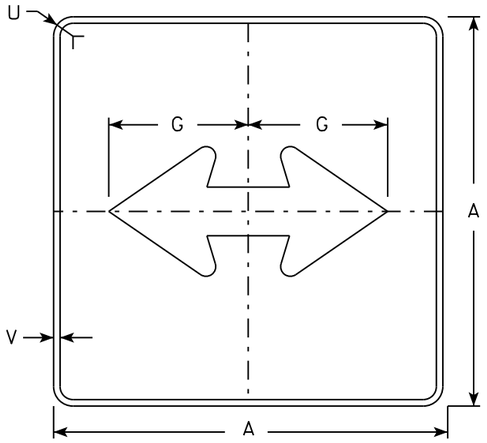
M6-4
MM6-4
MO6-4
MP6-4



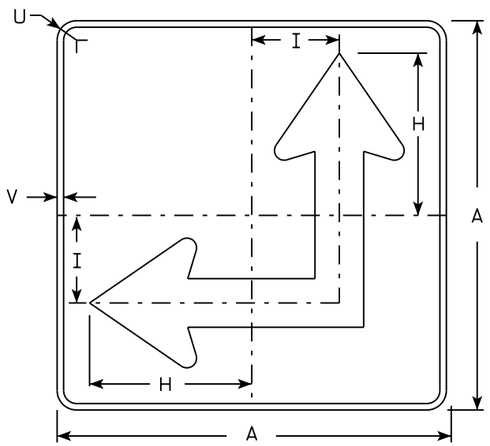
M6-6
MM6-6
MO6-6
MP6-6

NOTES

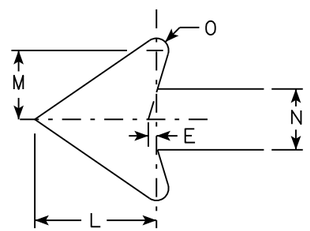
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - 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

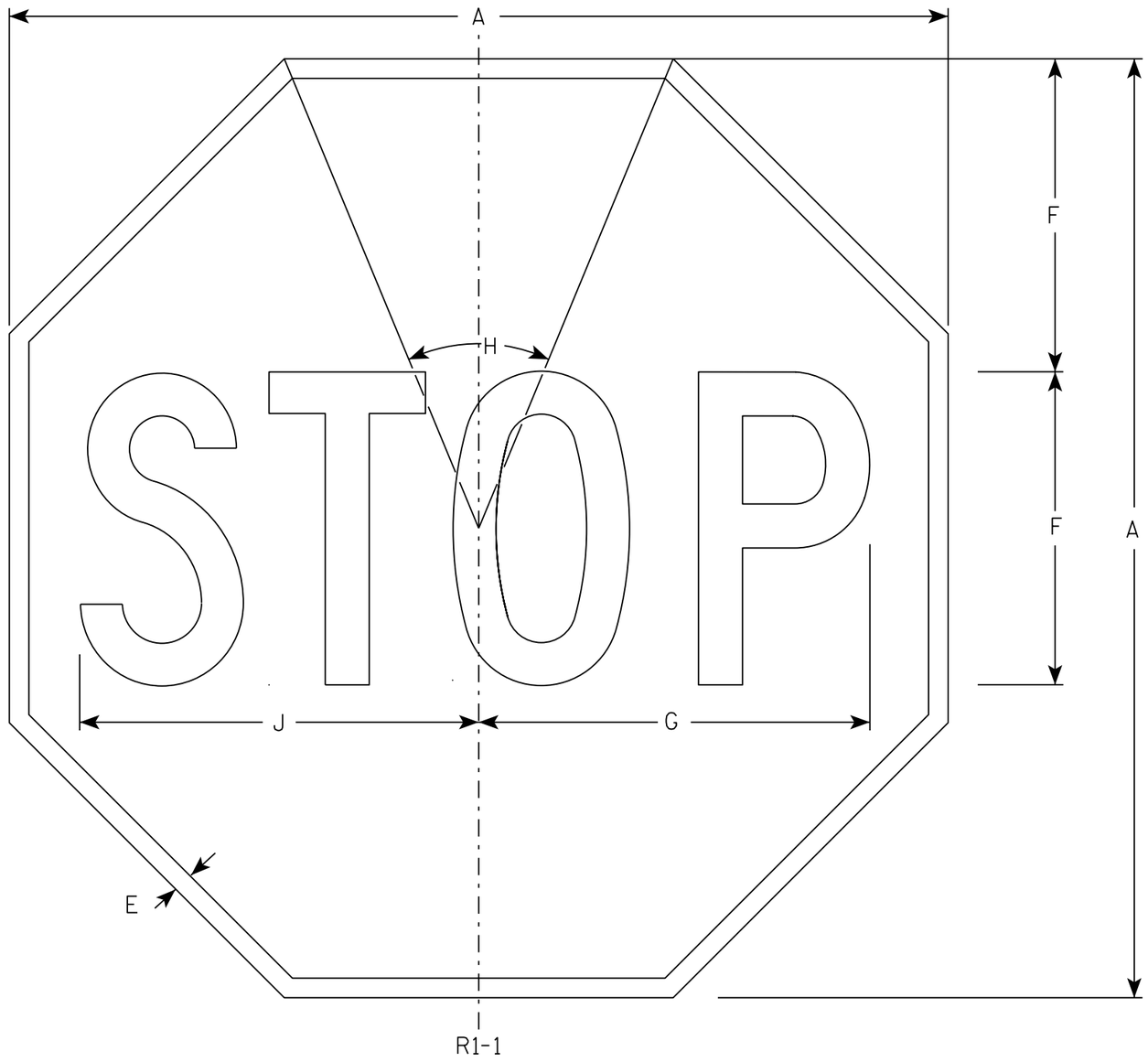
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 10/15/15 PLATE 367 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

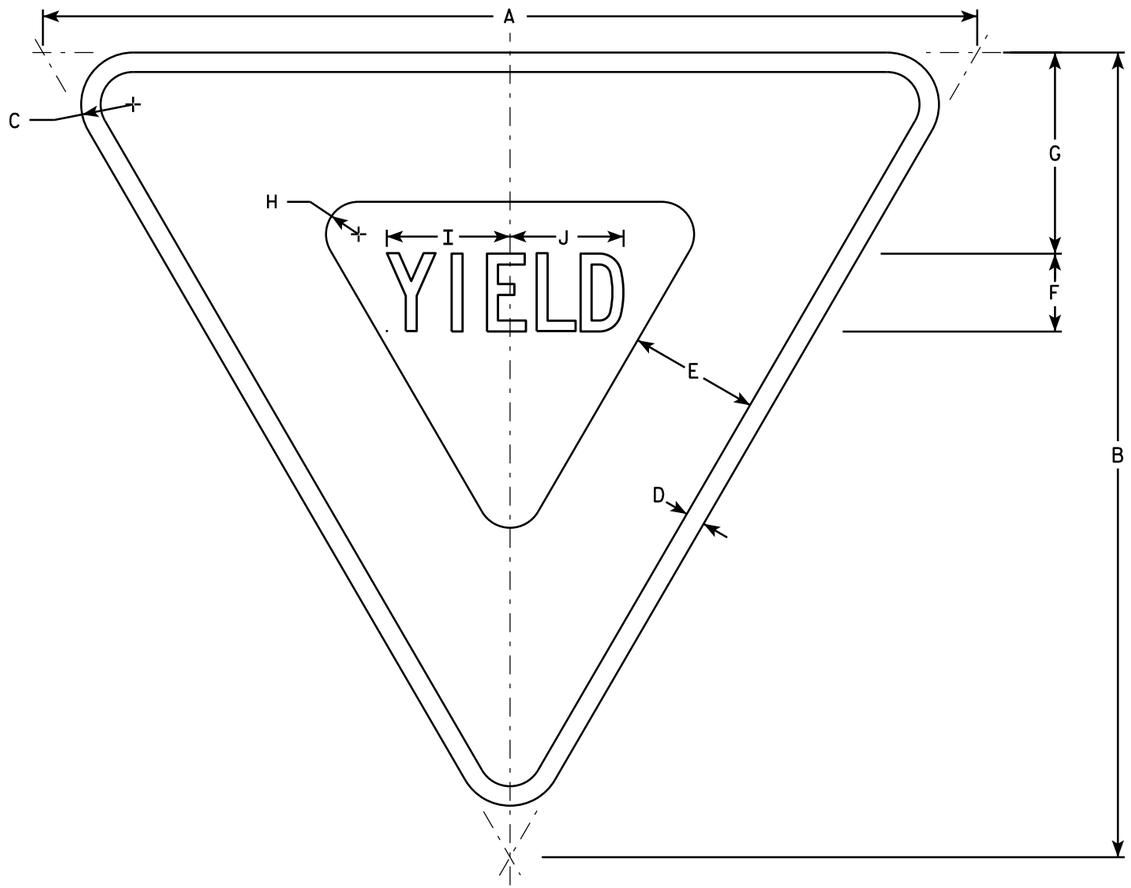
STANDARD SIGN
R1-1

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: 368	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

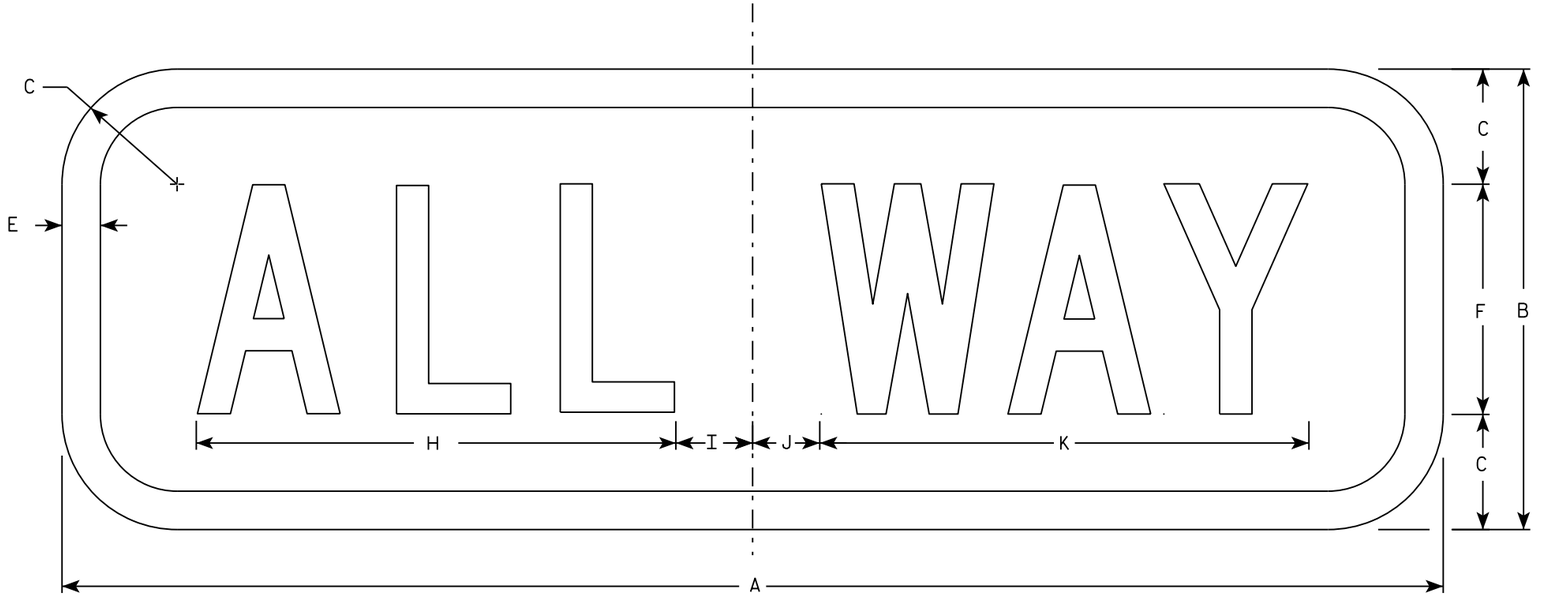
DATE 10/13/14 PLATE R1-2.12

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

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. For 30"x30" R1-1 use 18"x6" R1-3P sign
   For 36"x36" R1-1 use 24"x9" R1-3P sign
   For 48"x48" R1-1 use 30"x12" R1-3P sign



R1-3P

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	6	1 1/2		1/2	3		6 1/4	1 1/4	7/8	6 3/8																0.75
2S	18	6	1 1/2		1/2	3		6 1/4	1 1/4	7/8	6 3/8																1.5
2M	24	9	1 1/2		1/2	5		9 1/4	1 1/4	3/4	9 3/4																1.5
3	24	9	1 1/2		1/2	5		9 1/4	1 1/4	3/4	9 3/4																1.5
4	30	12	2 1/4		5/8	6		11	2 1/4	1 1/2	11 3/4																2.5
5	30	12	2 1/4		5/8	6		11	2 1/4	1 1/2	11 3/4																2.5

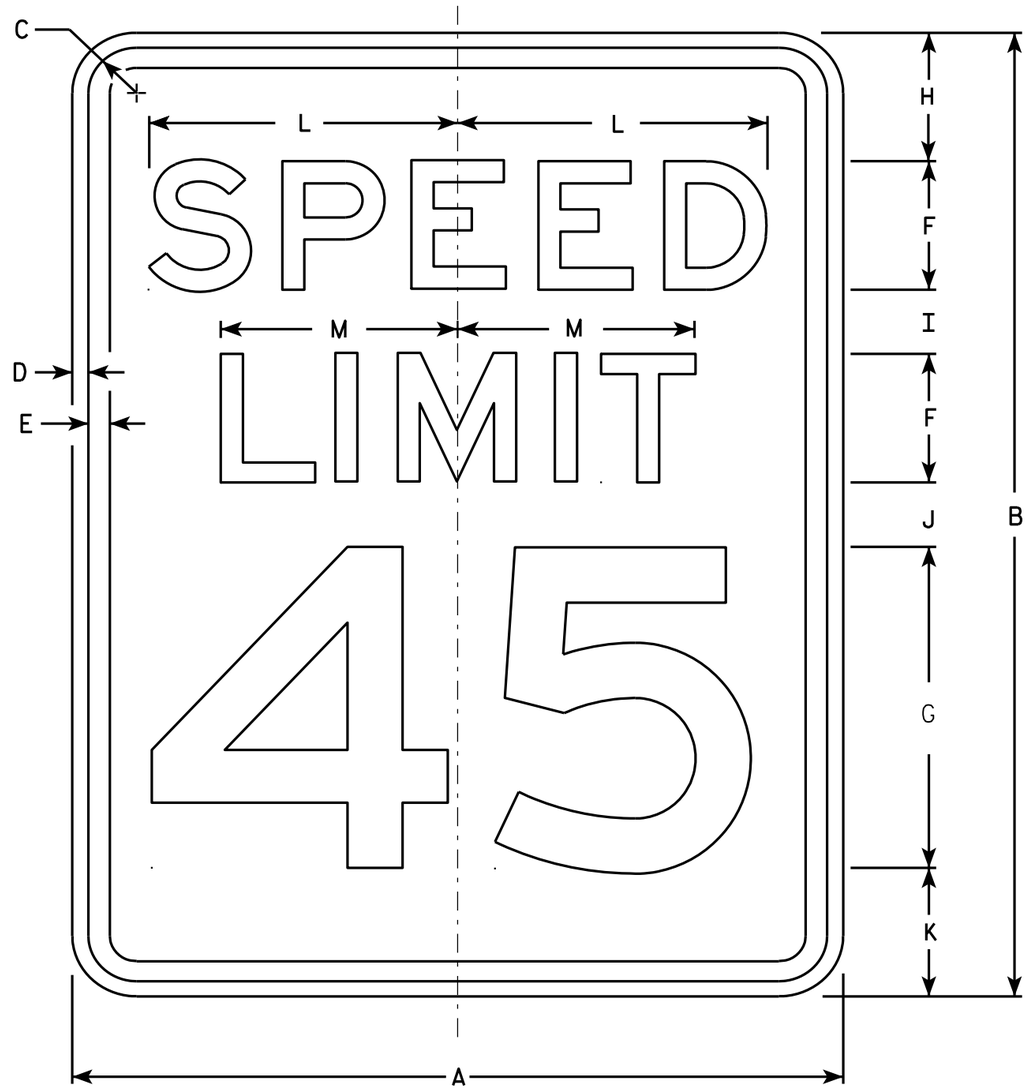
STANDARD SIGN
R1-3P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/29/16 PLATE NO. R1-3P.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 370 | E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

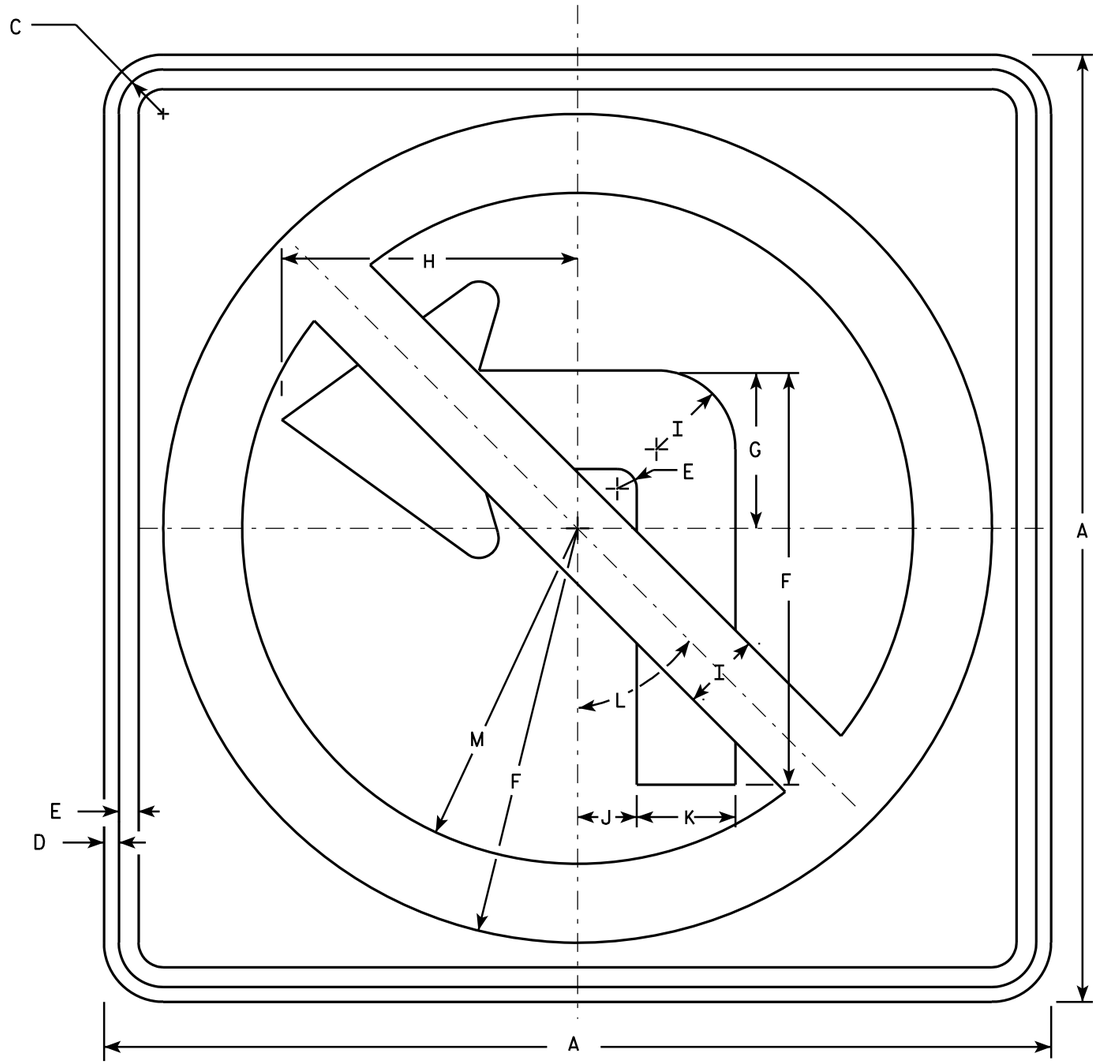
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

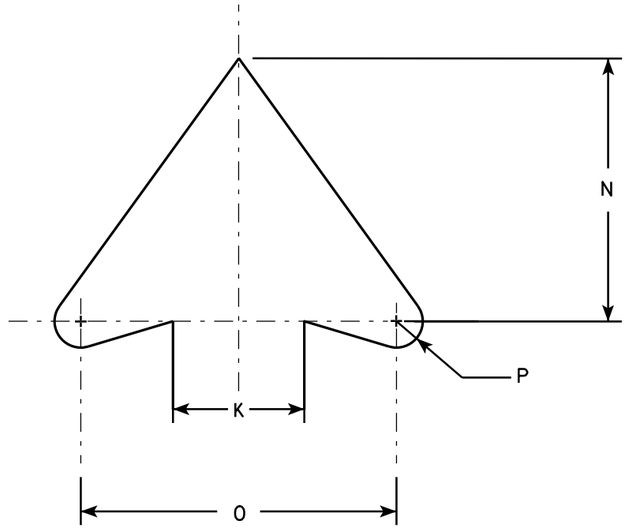
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 371	E



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

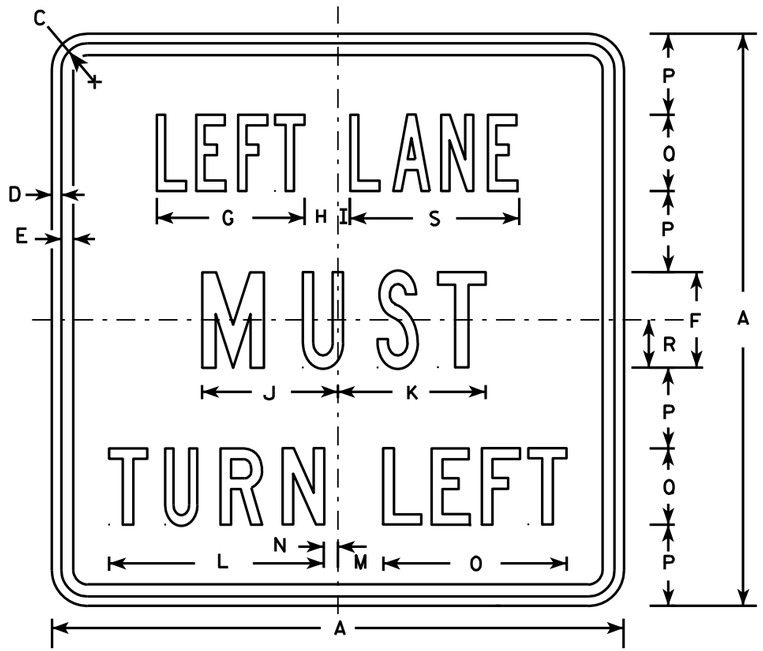
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

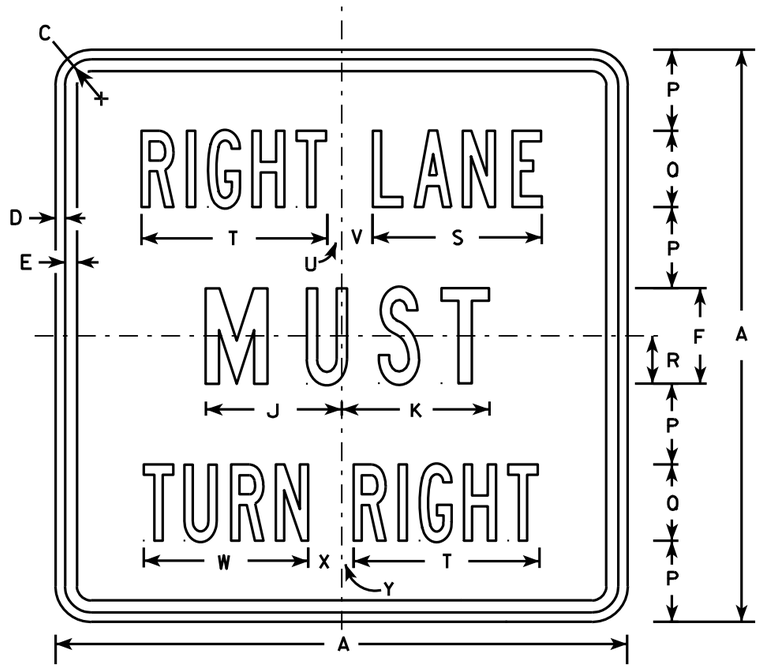
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 372	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																											

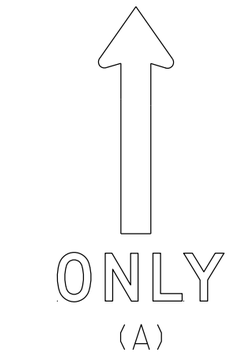
STANDARD SIGN
R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-7.3

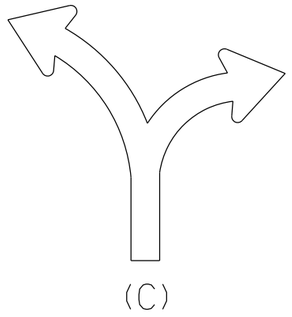
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 373 | E

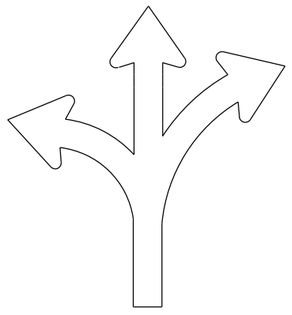


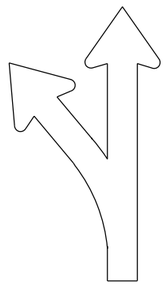
(A)

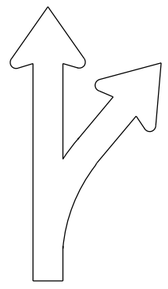


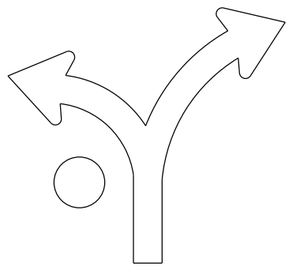
(B)

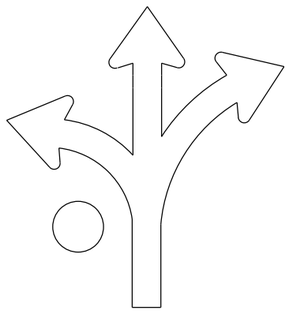

(C)

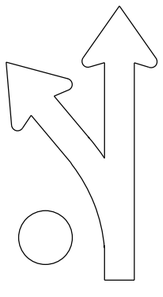

(D)

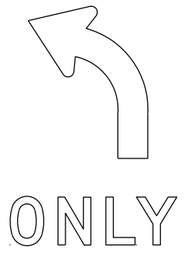

(E)


(F)

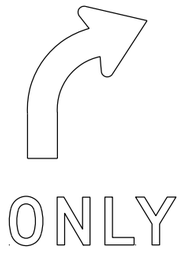

(G)


(H)

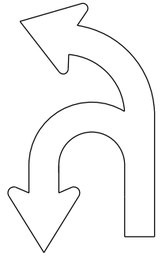

(I)



(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

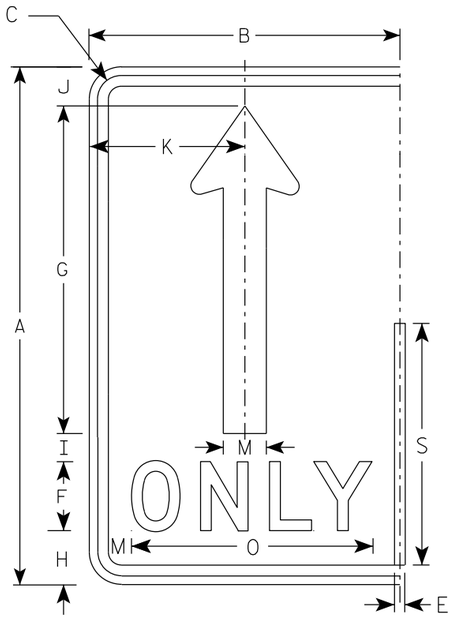
7

PROJECT NO:

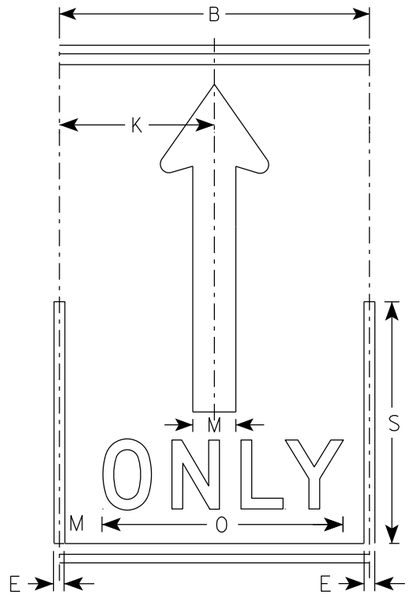
SHEET NO: 374 E

NOTES

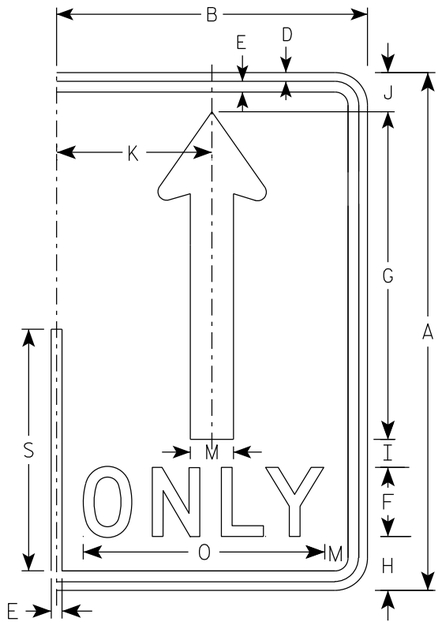
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



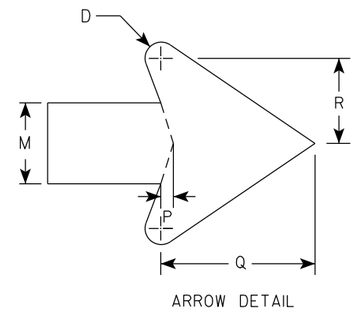
(A)



(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

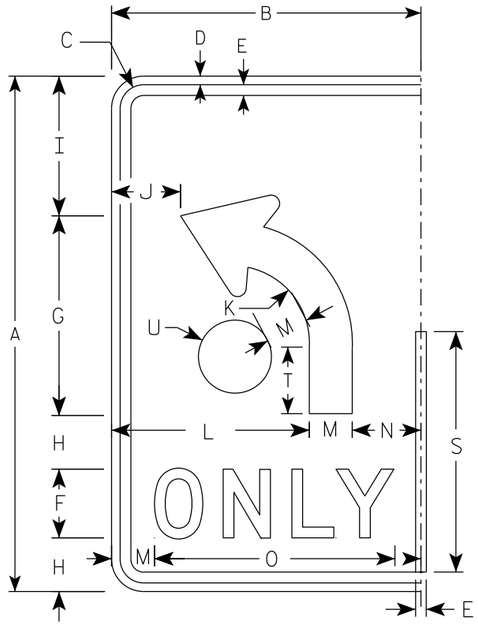
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

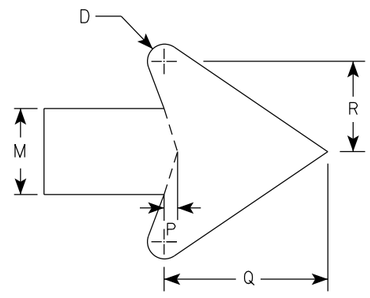
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 375 | E

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

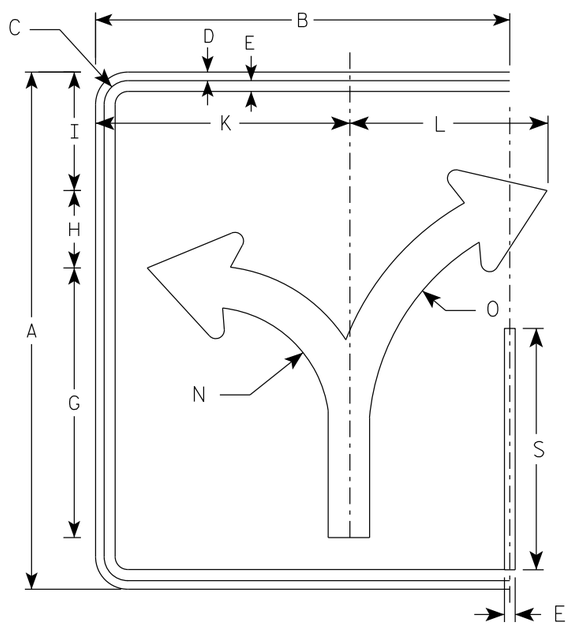
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

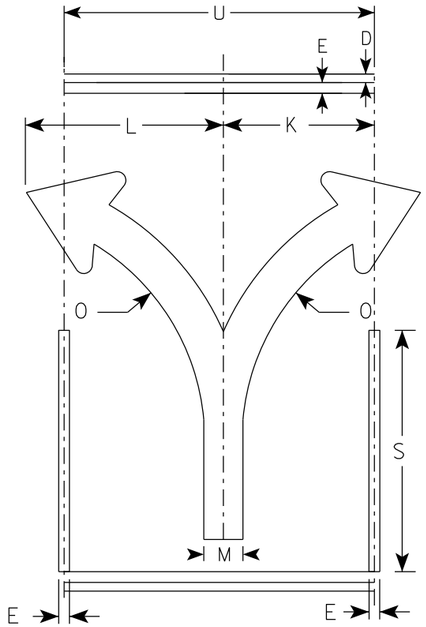
SHEET NO: 376 E

NOTES

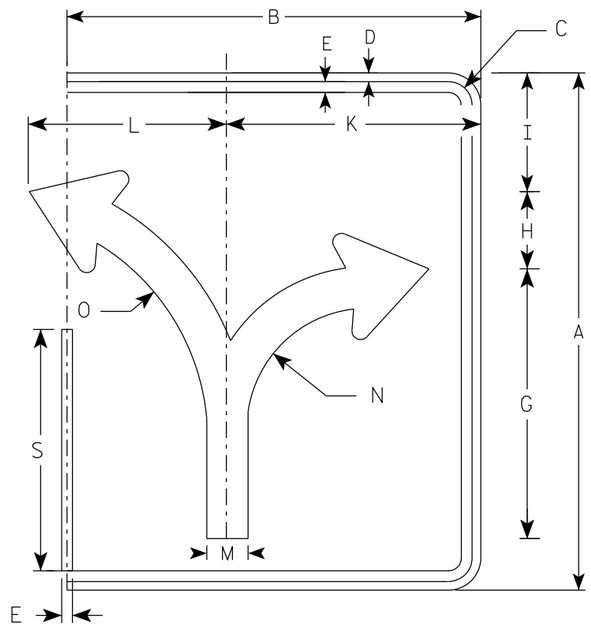
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



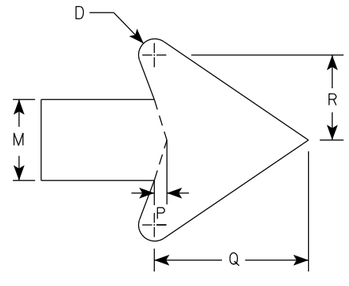
(C)



(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

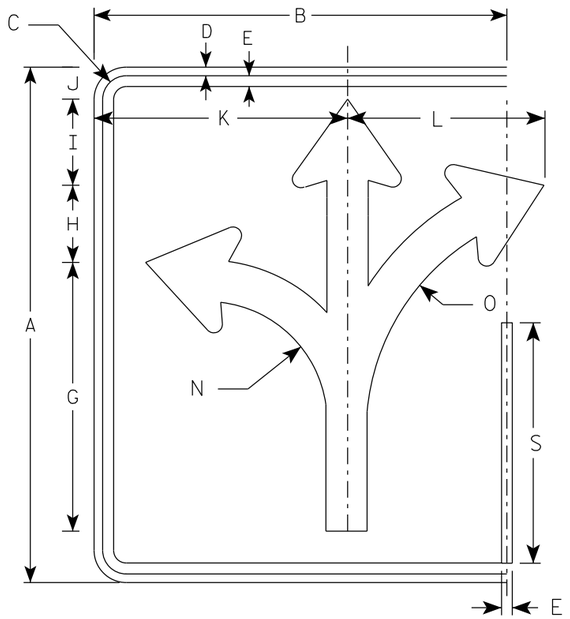
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

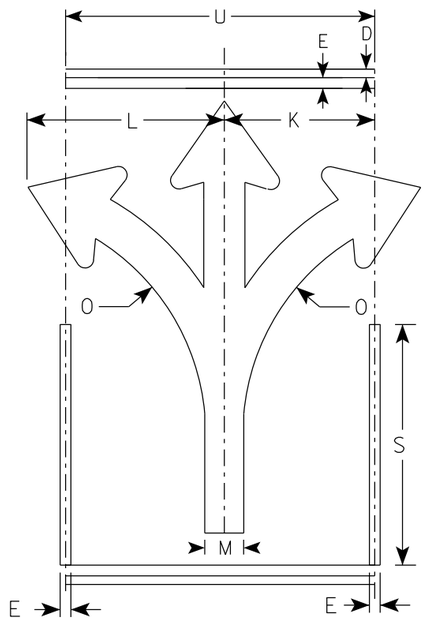
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 377 | E

NOTES

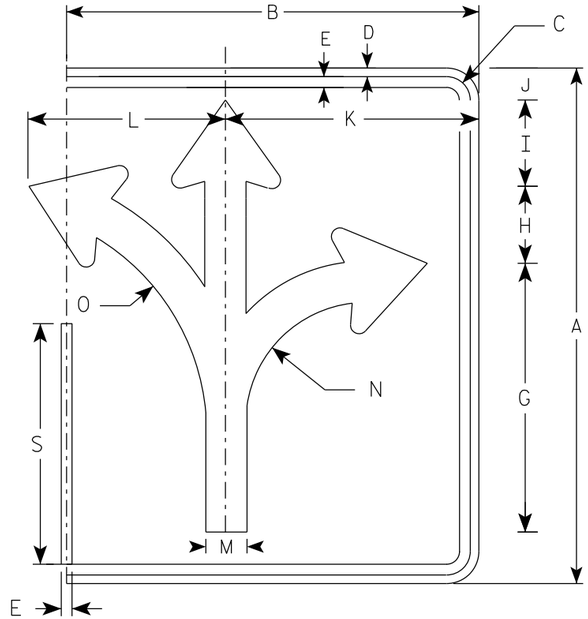
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



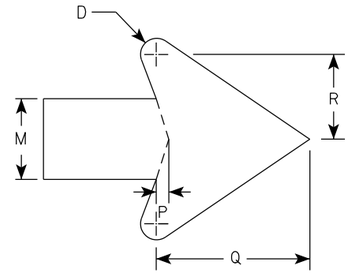
(D)



(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

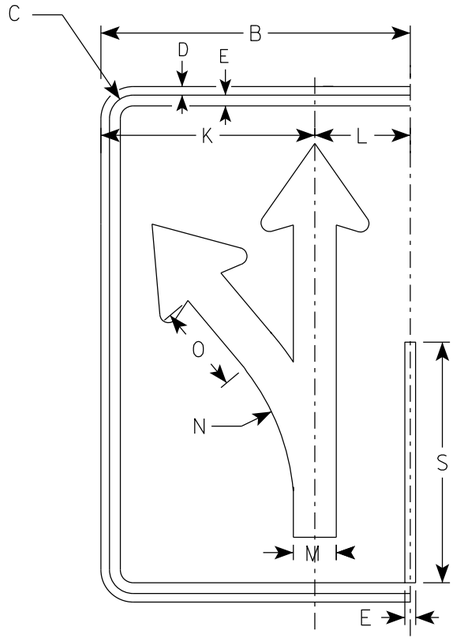
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 378 | E

7

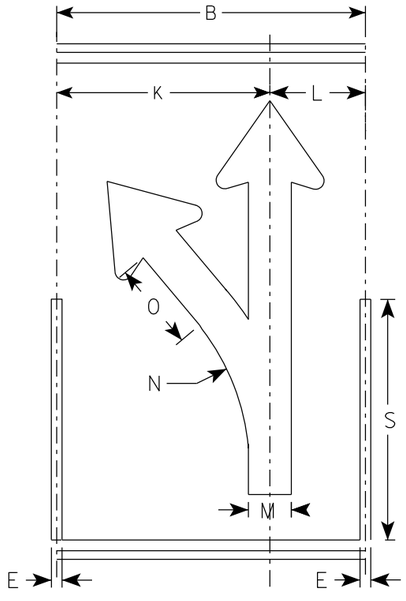
7

NOTES

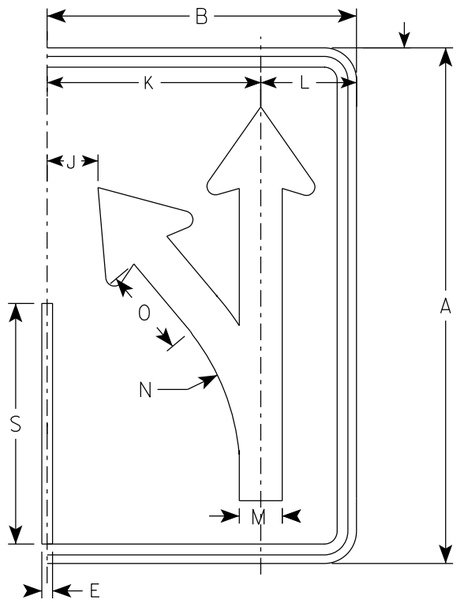
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



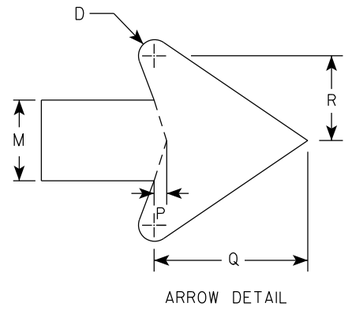
(E)



(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

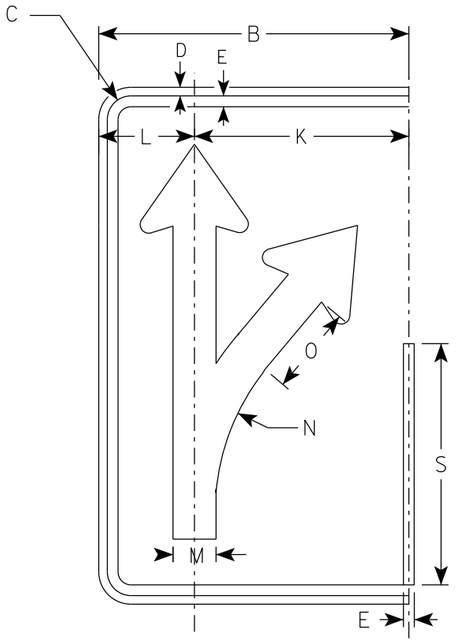
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

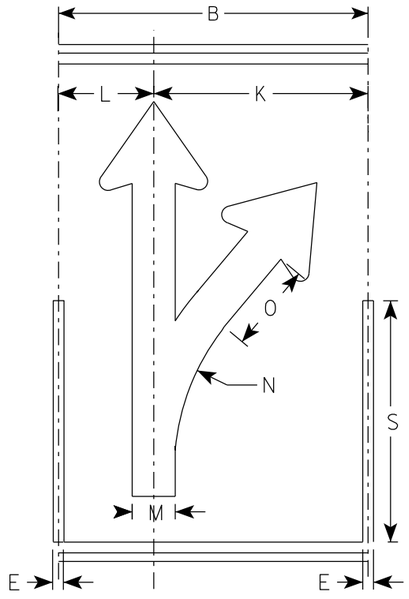
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 379 | E

NOTES

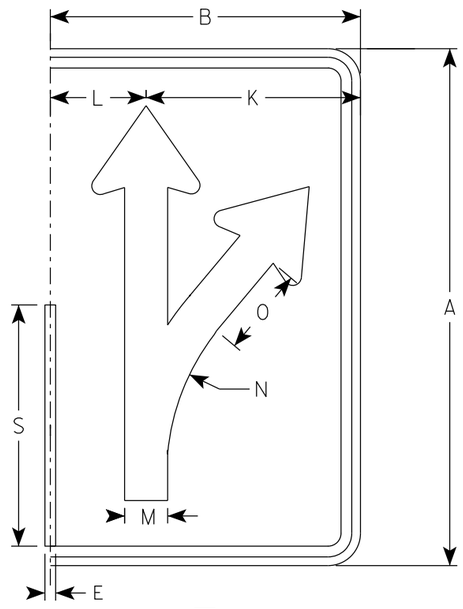
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - None



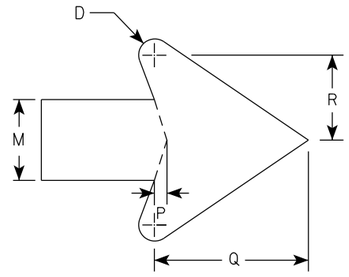
(F)



(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

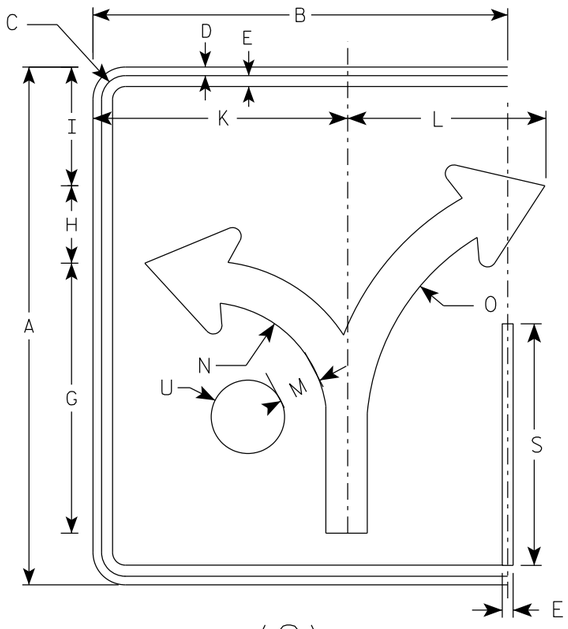
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

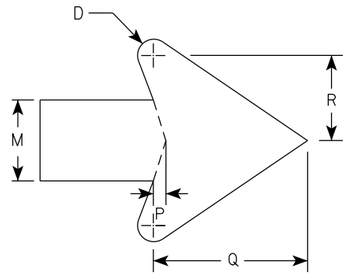
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 380 | E

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

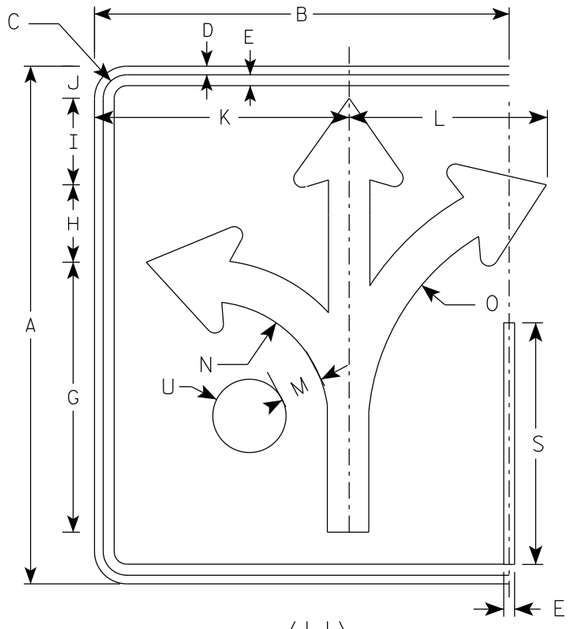
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

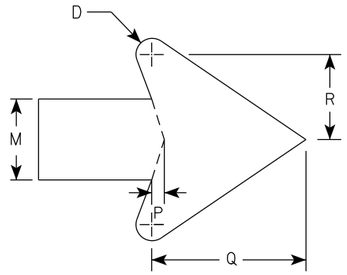
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 381 | E

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

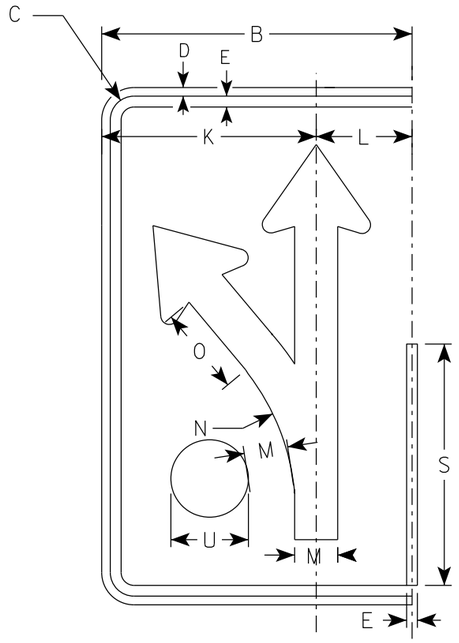
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

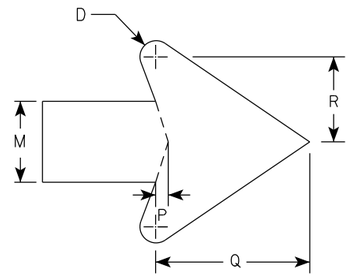
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 382	E

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

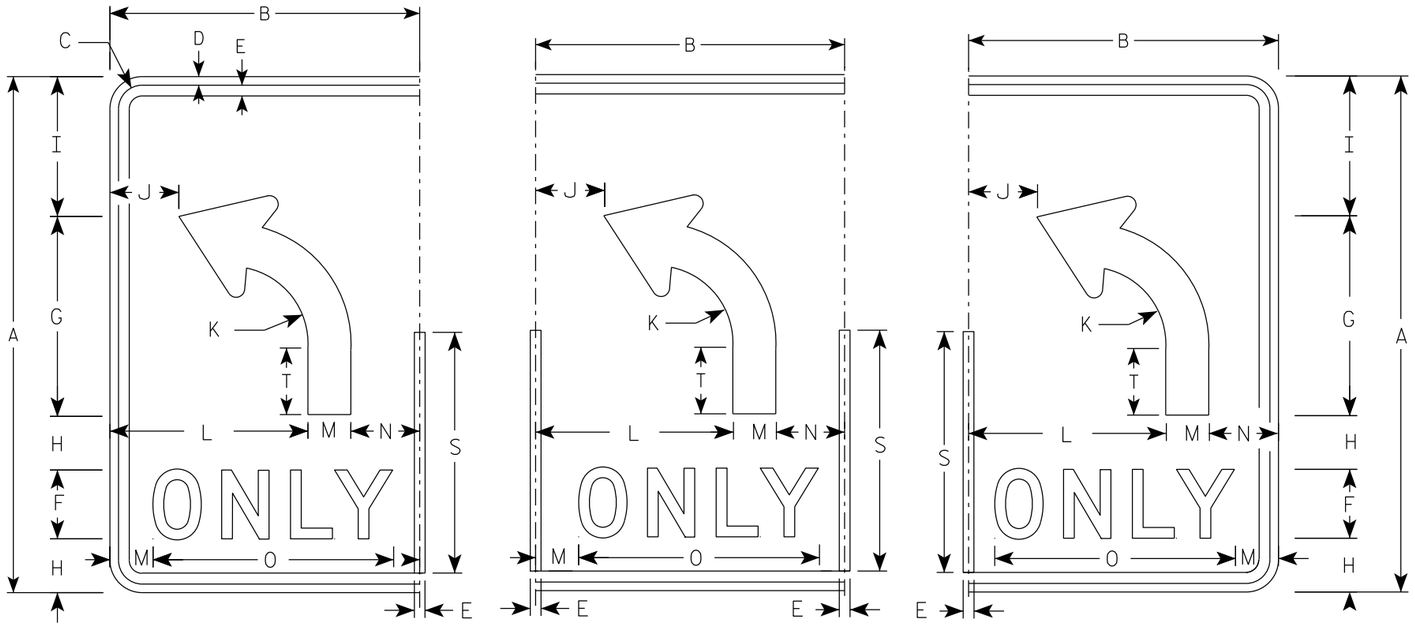
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

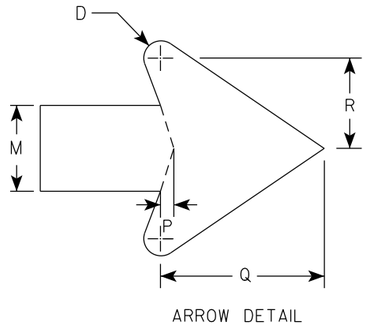
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 383 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



(L) (L) (L)



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

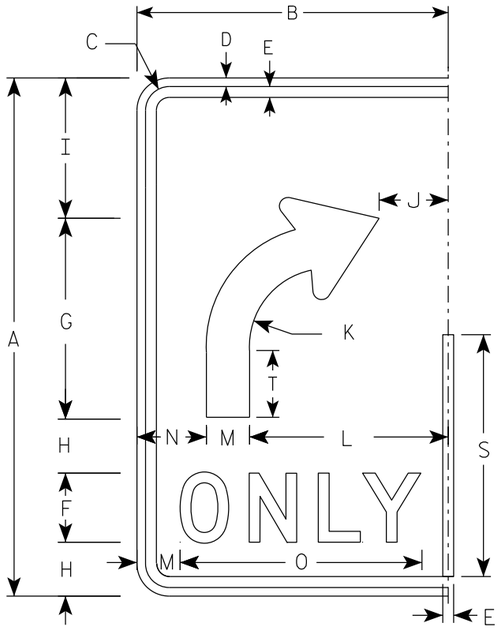
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

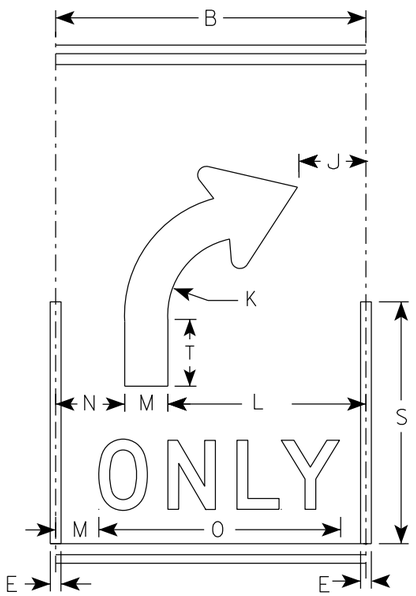
SHEET NO: 384 E

NOTES

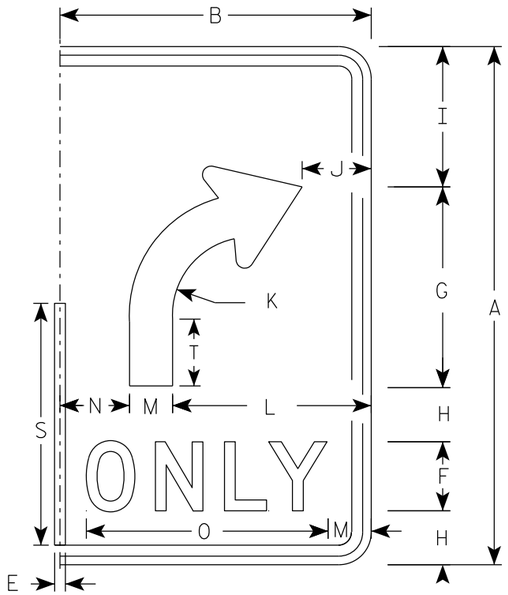
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D



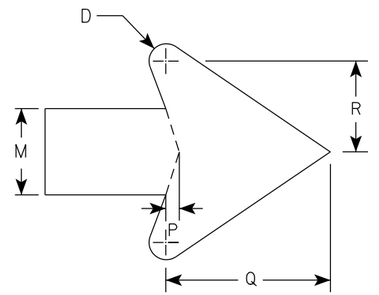
(R)



(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

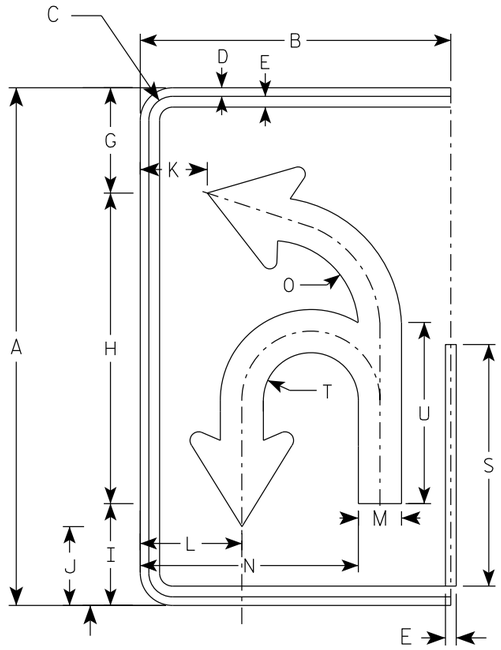
DATE 5/21/19 PLATE NO. R3-8.1

PROJECT NO:

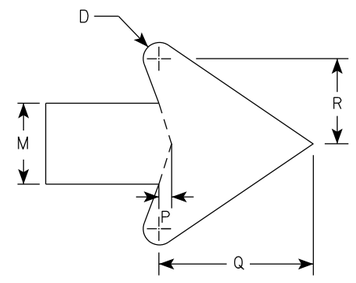
SHEET NO: 385 **E**

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

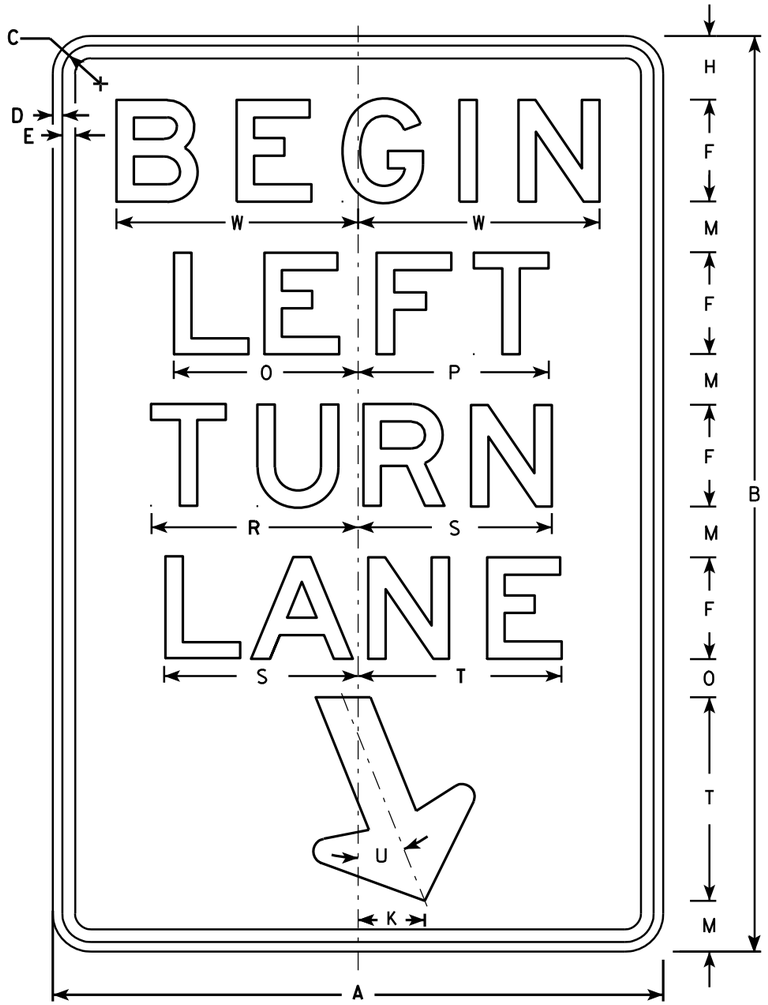
STANDARD SIGN
R3-8 (U) Arrow

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/21/19 PLATE NO. R3-8.1

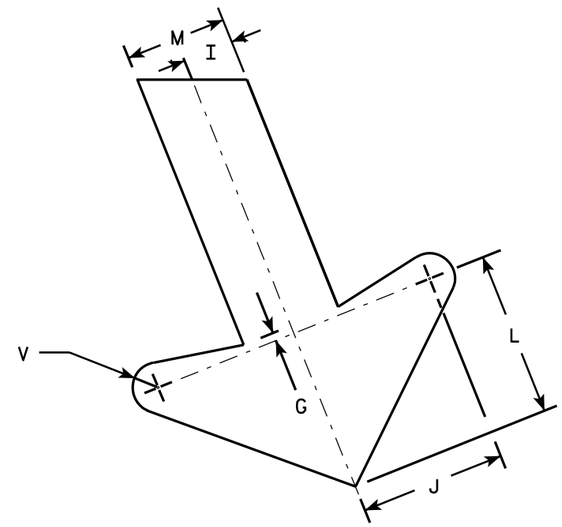
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 386 | E



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																											

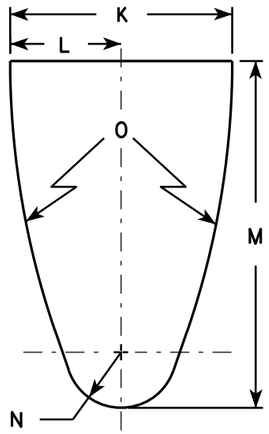
STANDARD SIGN
R3-20L

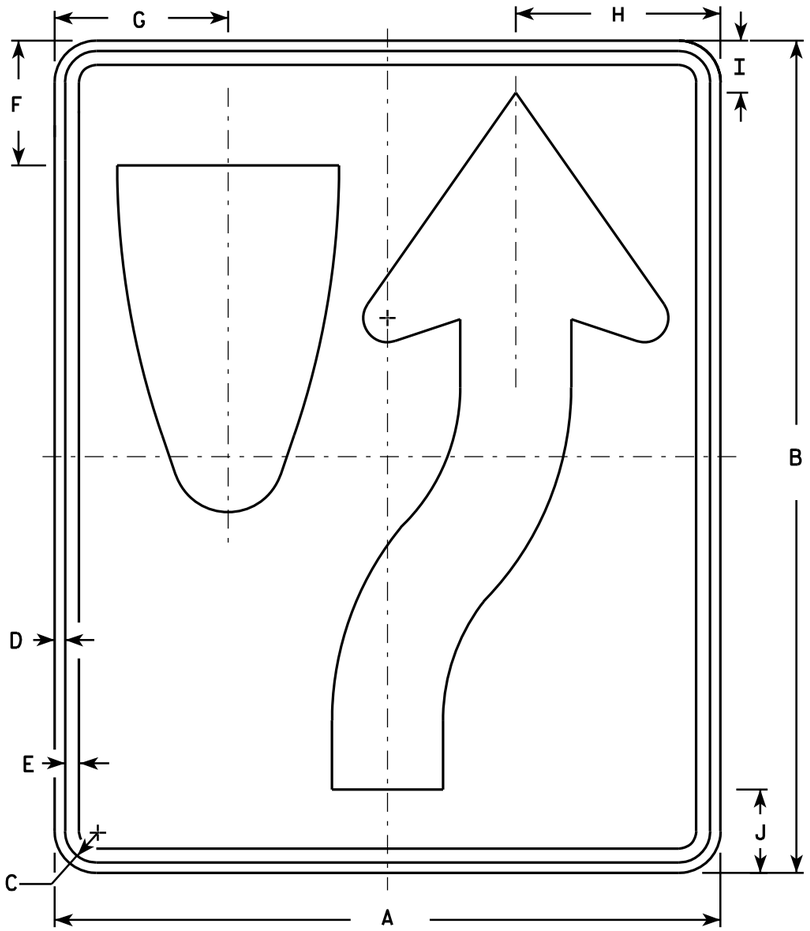
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 387 | E

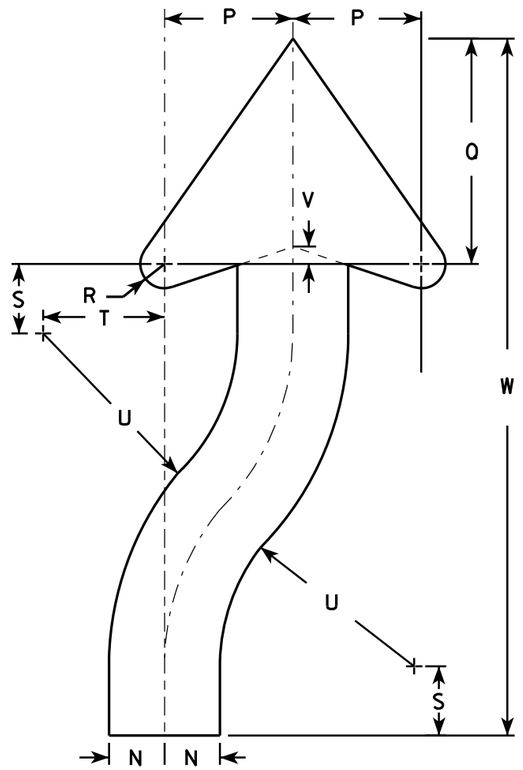




R4-7

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

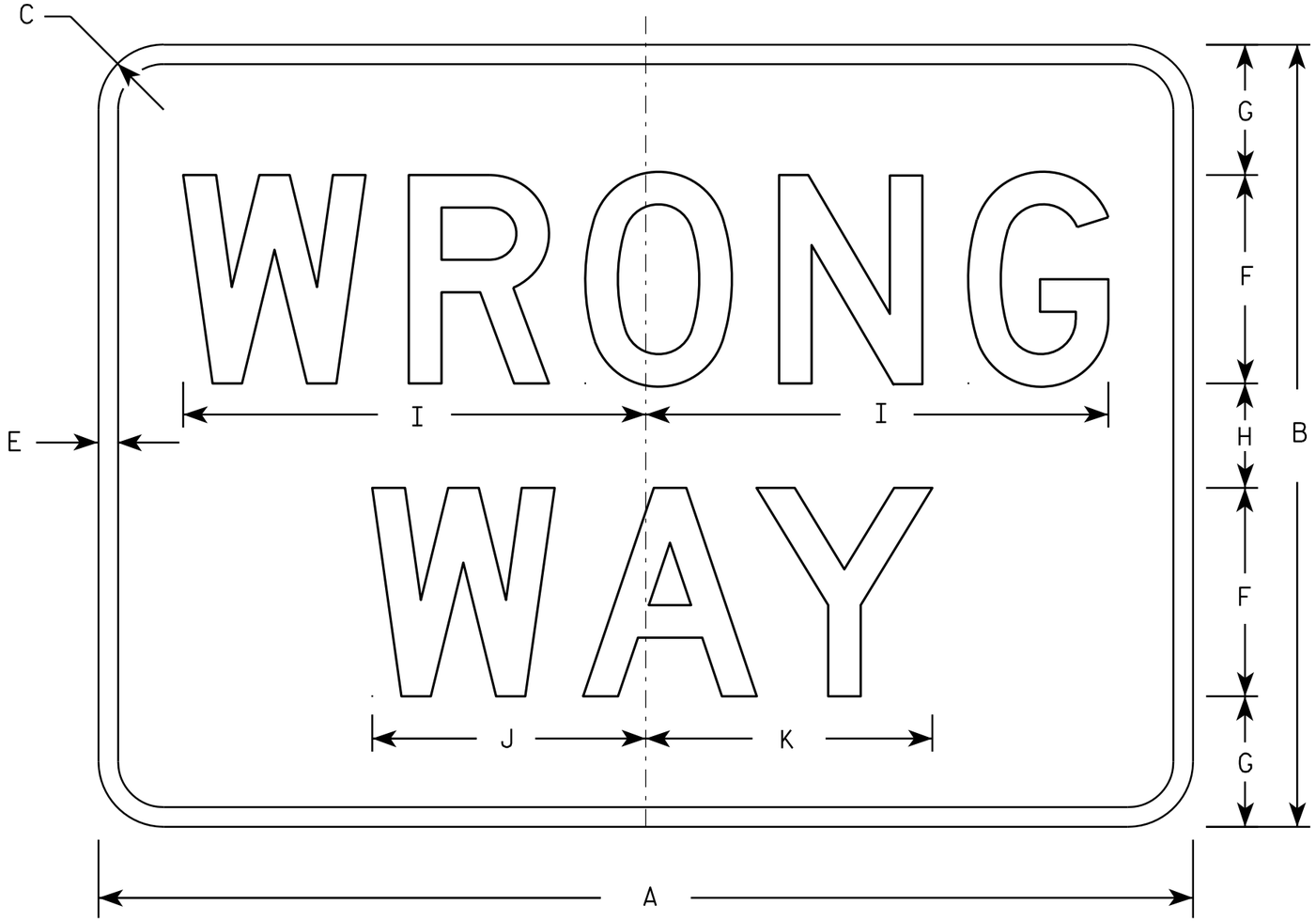
STANDARD SIGN
R4-7 & R4-8

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: 388	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

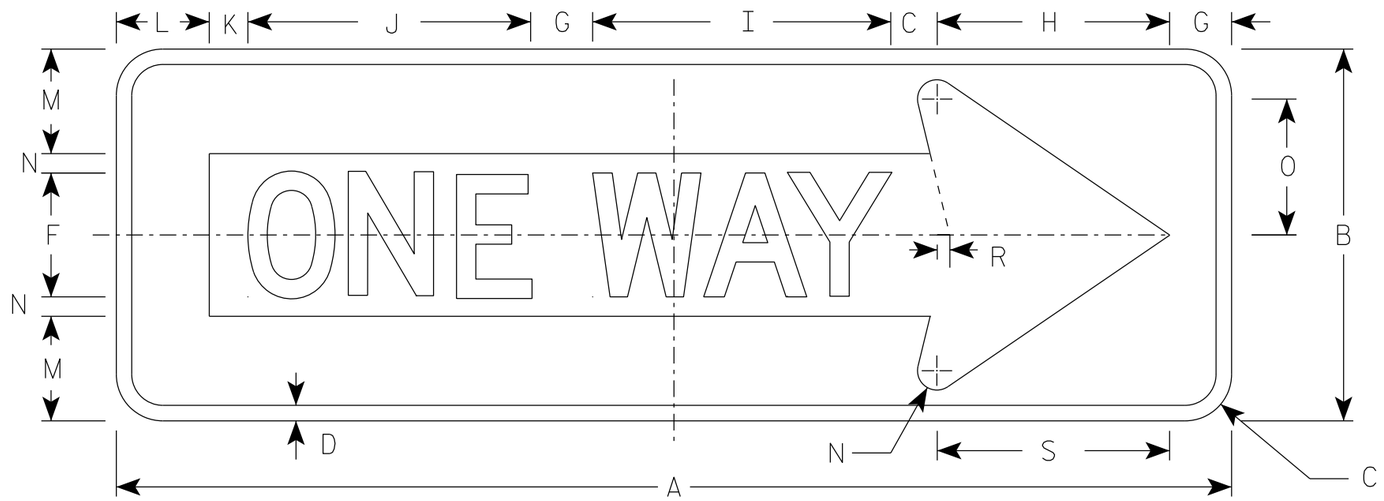
STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

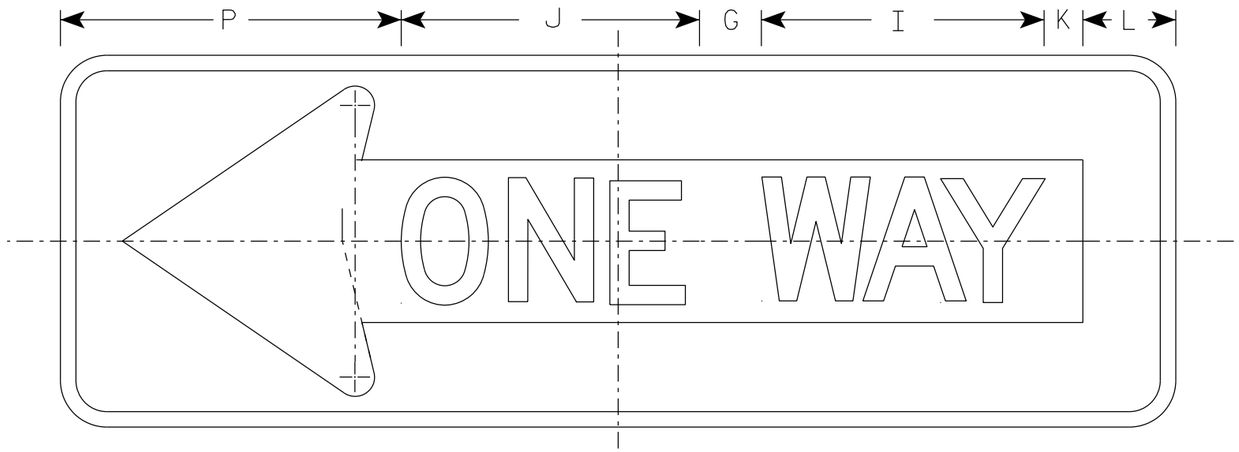
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 389	E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - BLACK
   Message - BLACK LEGEND & WHITE ARROW & BORDER
3. Message Series - D



R6-1L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	12	1 1/2	1/2		4	2	7 1/2	9 5/8	9 1/8	1 1/4	3	3 3/8	5/8	4 3/8	11		3/8	7 1/2								3.0
2M	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
3	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
4	54	18	2 1/4	3/4		6	3	11 1/4	13 5/8	14 1/2	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
5																											

STANDARD SIGN
R6-1 L & R

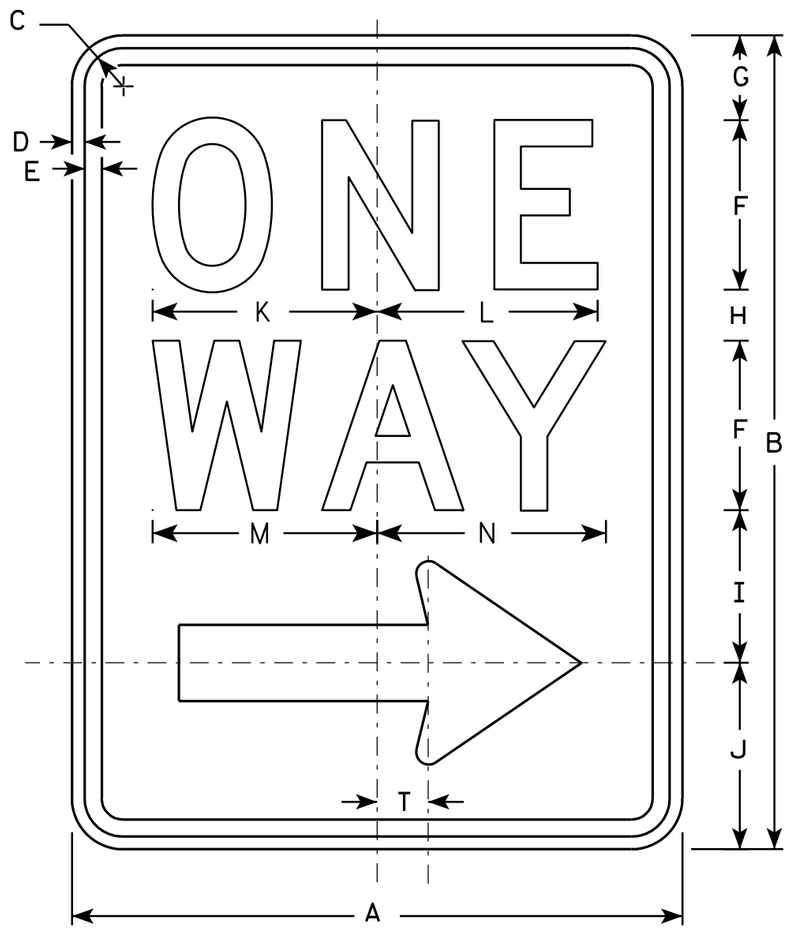
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 07/11/18 PLATE NO. R6-1.3

PROJECT NO:

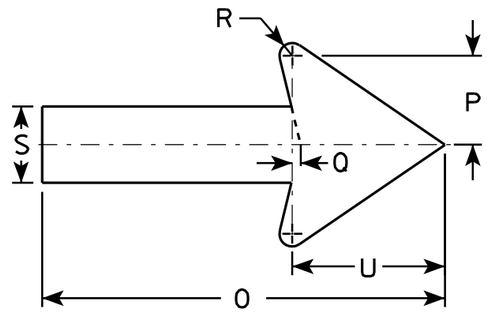
SHEET NO: 390 E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

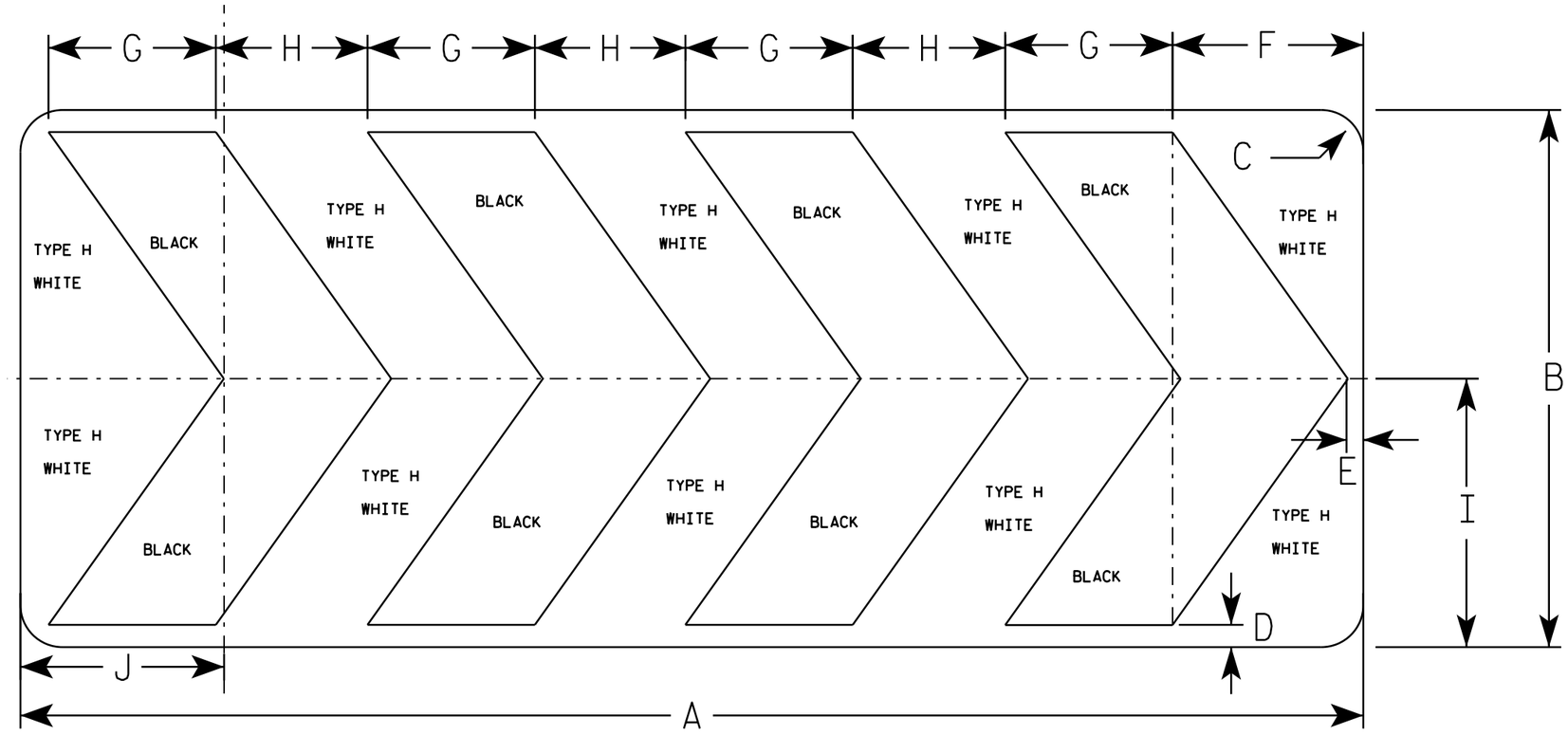
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 391 | E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - WHITE
   Message - BLACK
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R6-4B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
2M	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
3																											
4																											
5																											

STANDARD SIGN
R6-4B

WISCONSIN DEPT OF TRANSPORTATION

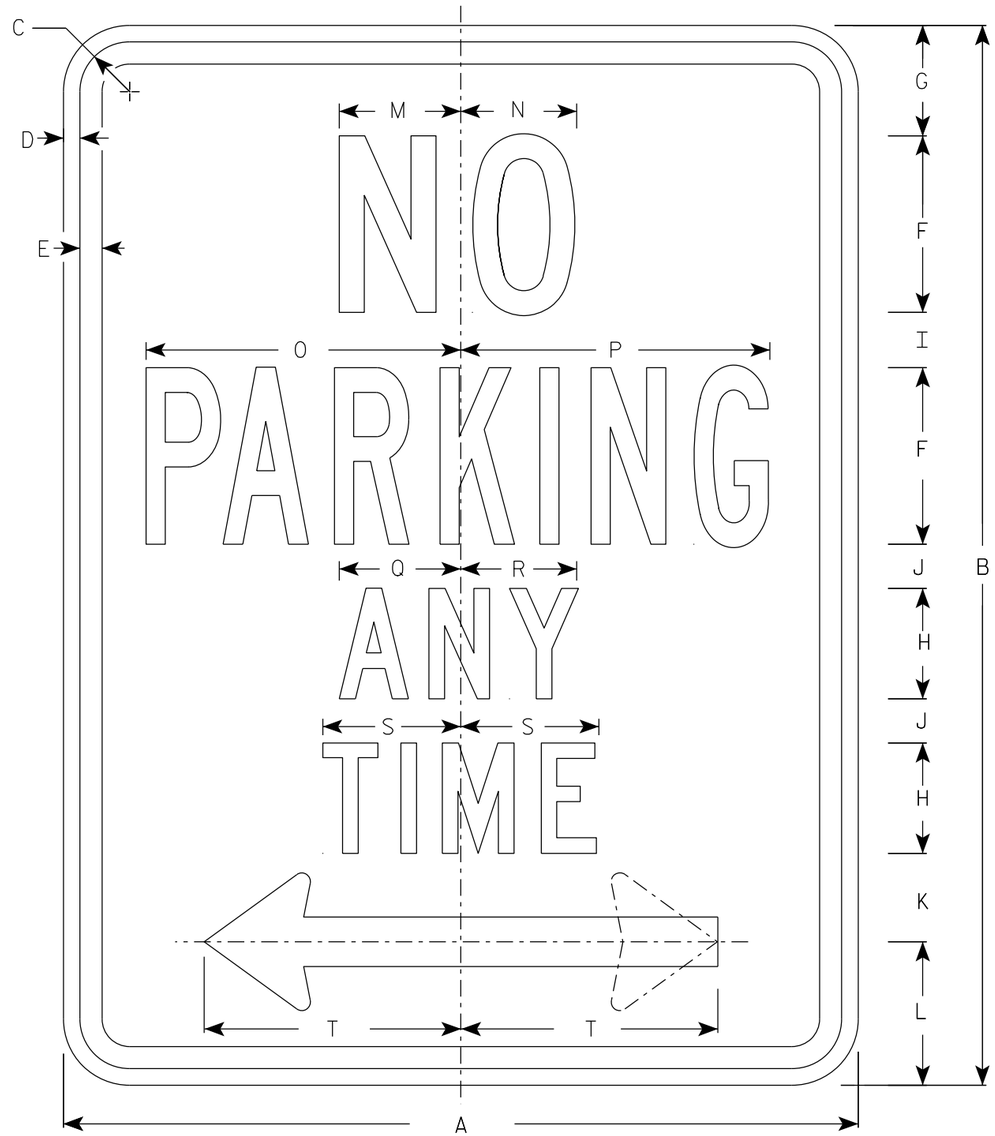
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/14 PLATE NO. R6-4.3

PROJECT NO: SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R64B.DGN PLOT DATE : 21-AUG-2014 15:01 PLOT BY : mscsja

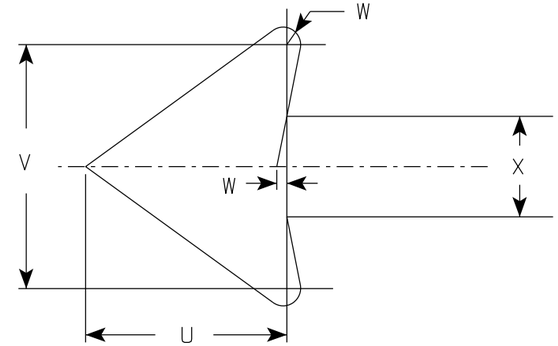
WISDOT/CADDS SHEET 42



R7-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Lines 1, 3 and 4 are series C, line 2 is series B.
5. 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

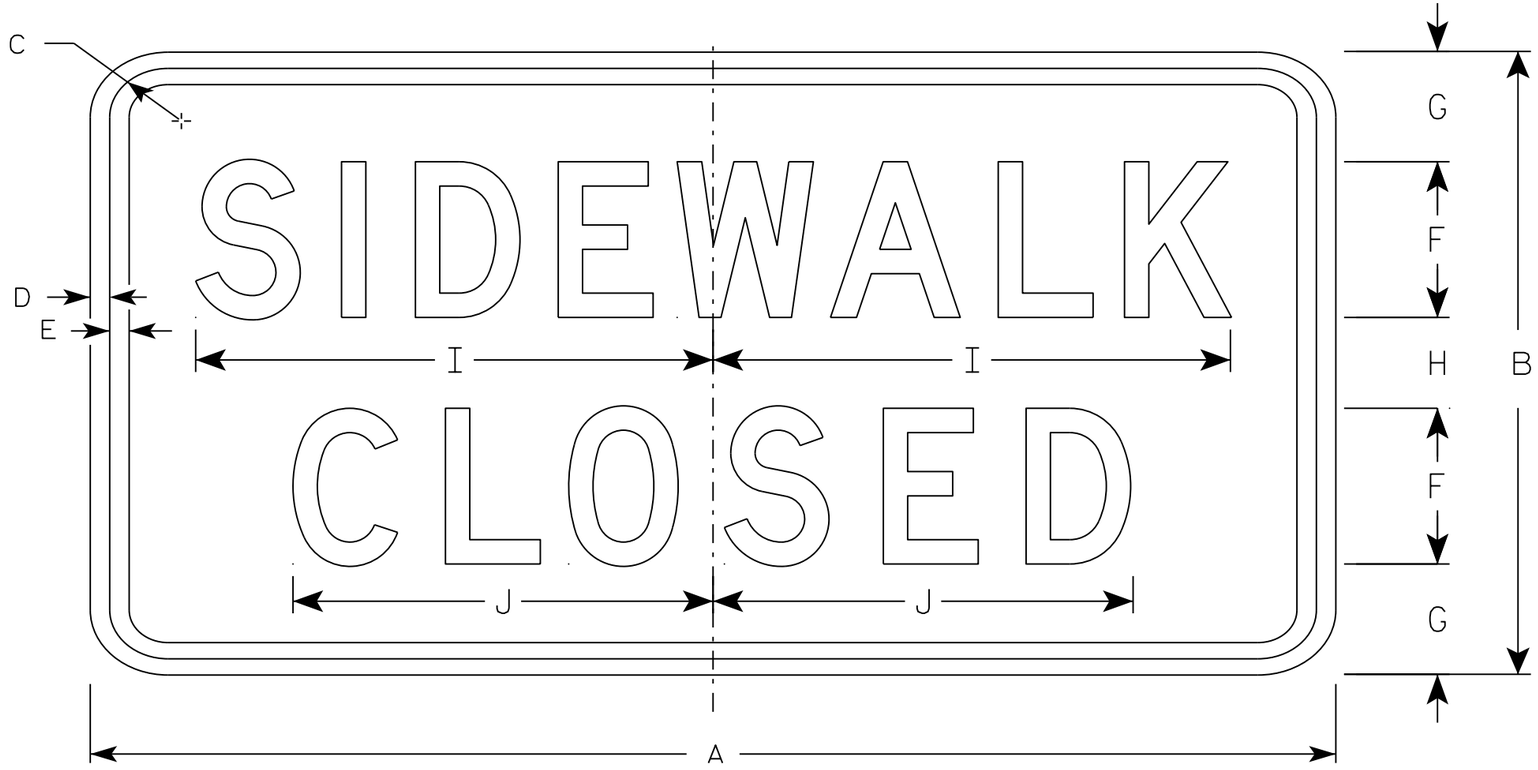
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2021 PLATE NO. R7-1.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 393 E

7

7



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

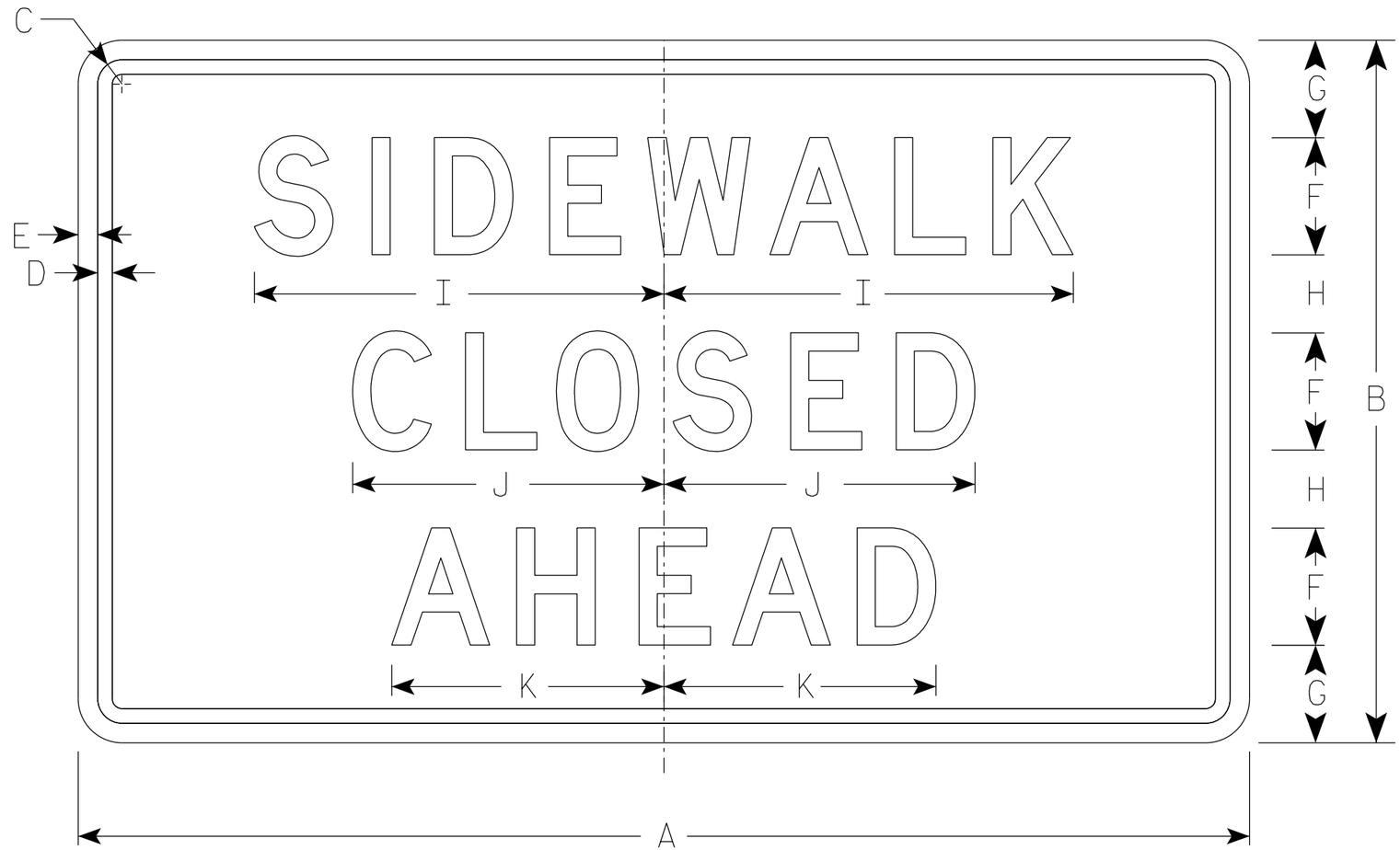
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/11/16 PLATE 394 R9-9.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R99.DGN PLOT DATE : 11-AUG-2016 11:33 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 2.918761:1.000000



R9-9A

NOTES

1. Sign is Type II - Type H Reflective
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	30	18	1 1/8	3/8	1/2	3	2 1/2	2	10 1/2	8	7																3.75
2M	30	18	1 1/8	3/8	1/2	3	2 1/2	2	10 1/2	8	7																3.75
3																											
4																											
5																											

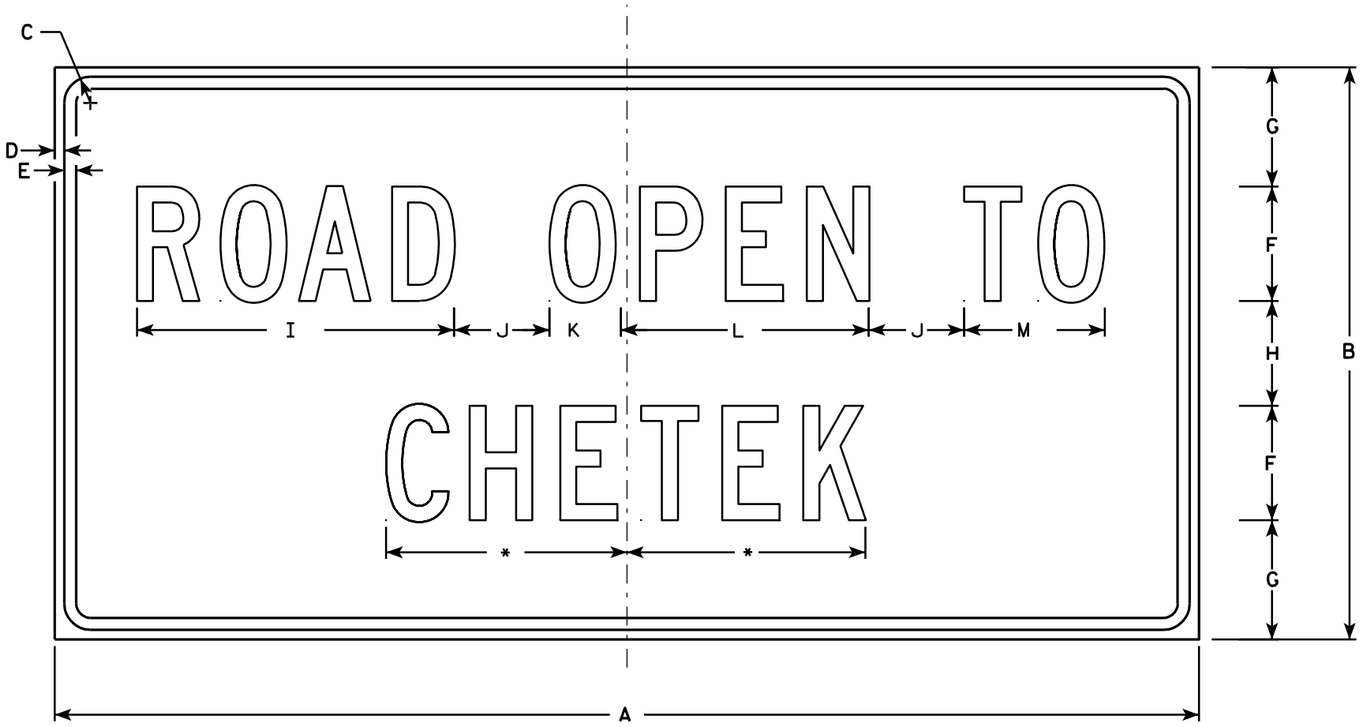
STANDARD SIGN
R9-9A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/31/2020 PLATE NO. R9-9A.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 395 | E



R10-61

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. Substitute appropriate message and optically balance.

*See note 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.
1	36	24	1 3/8	1/2	5/8	4	5 1/2	5	10 3/4	2	2 1/8	8 3/8	4 5/8														6.0
2S	60	30	1 3/8	1/2	5/8	6	6 1/4	5 1/2	16 5/8	5	3 3/4	13	7 3/8														12.5
2M	60	30	1 3/8	1/2	5/8	6	6 1/4	5 1/2	16 5/8	5	3 3/4	13	7 3/8														12.5
3																											
4																											
5																											

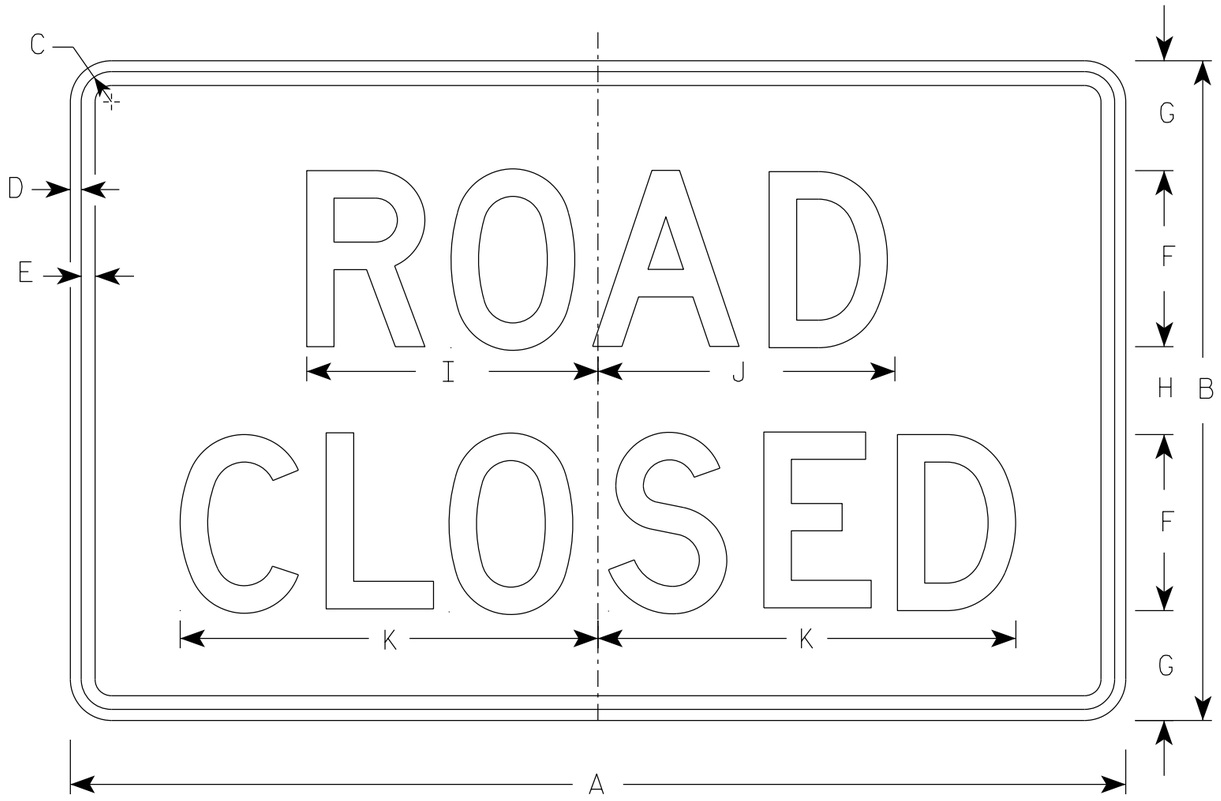
STANDARD SIGN
R10-61

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/4/11 PLATE NO. R10-61.5

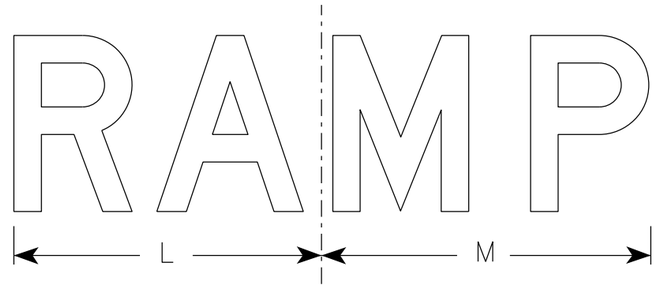
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 396	E



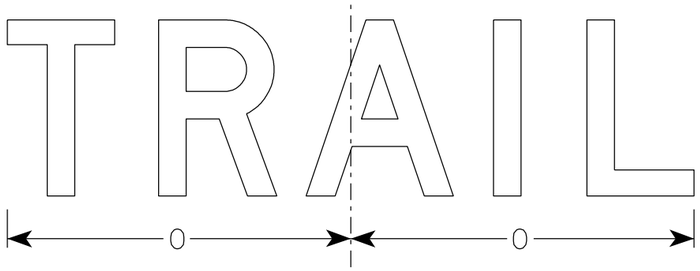
R11-2

NOTES

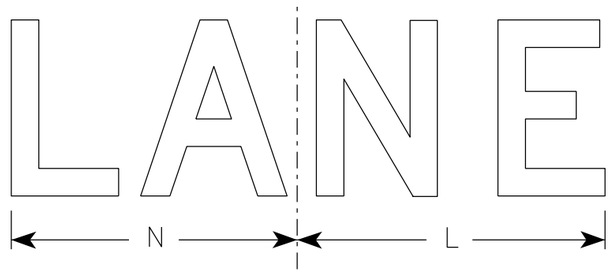
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2T



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	15 5/8												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	15 5/8												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	15 5/8												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	15 5/8												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	15 5/8												10.0

STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

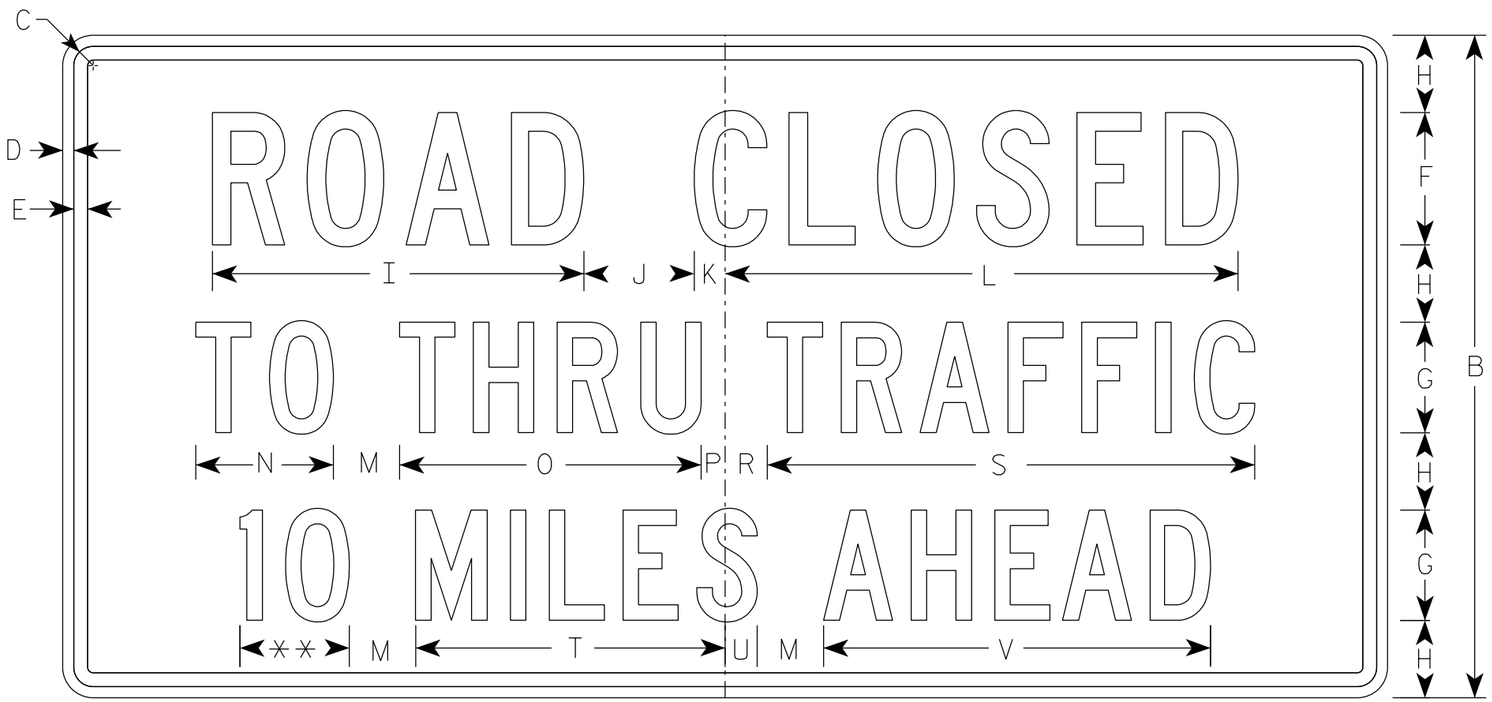
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2021 PLATE NO. R11-2.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 397 E

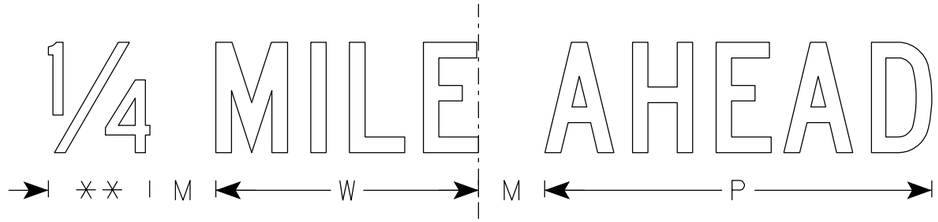
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3

** See Note 5



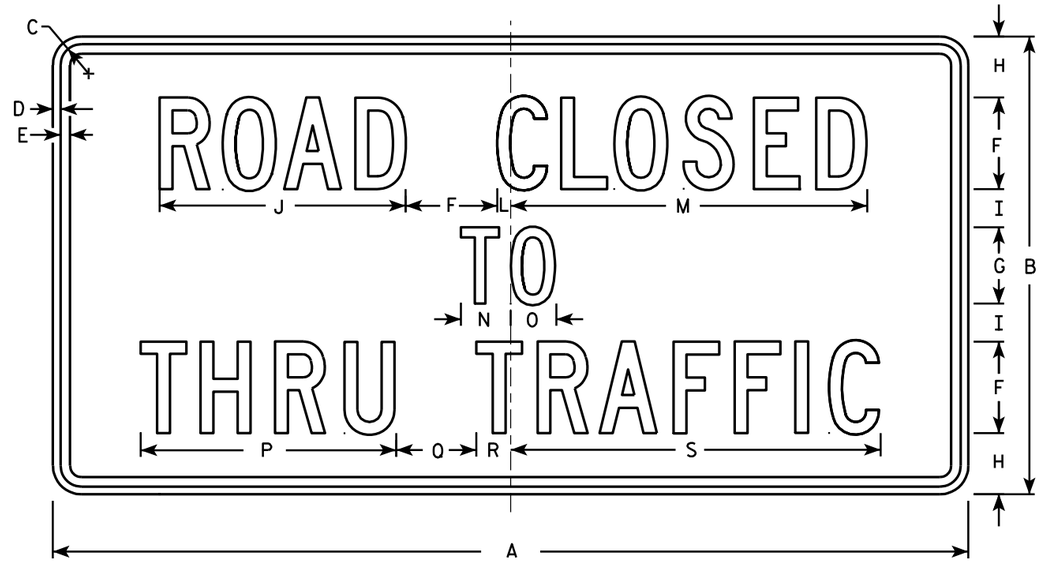
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/4	3/8	3/8	4	3	2	11 1/4	3	1 1/8	15 3/8	2	3 3/4	8 1/4	5/8		1 3/8	13 1/4	8 3/8	7/8	10 1/2	7 1/8				4.5
2S	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	3 1/2	16 7/8	5	1 3/8	23 1/4	3	6 1/4	13 5/8	1 1/8		1 7/8	22 1/8	14	1 1/2	17 1/2	11 7/8				12.5
3																											
4																											
5																											

STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 6/14/2021 PLATE NO. R11-3.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 398	E



R11-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

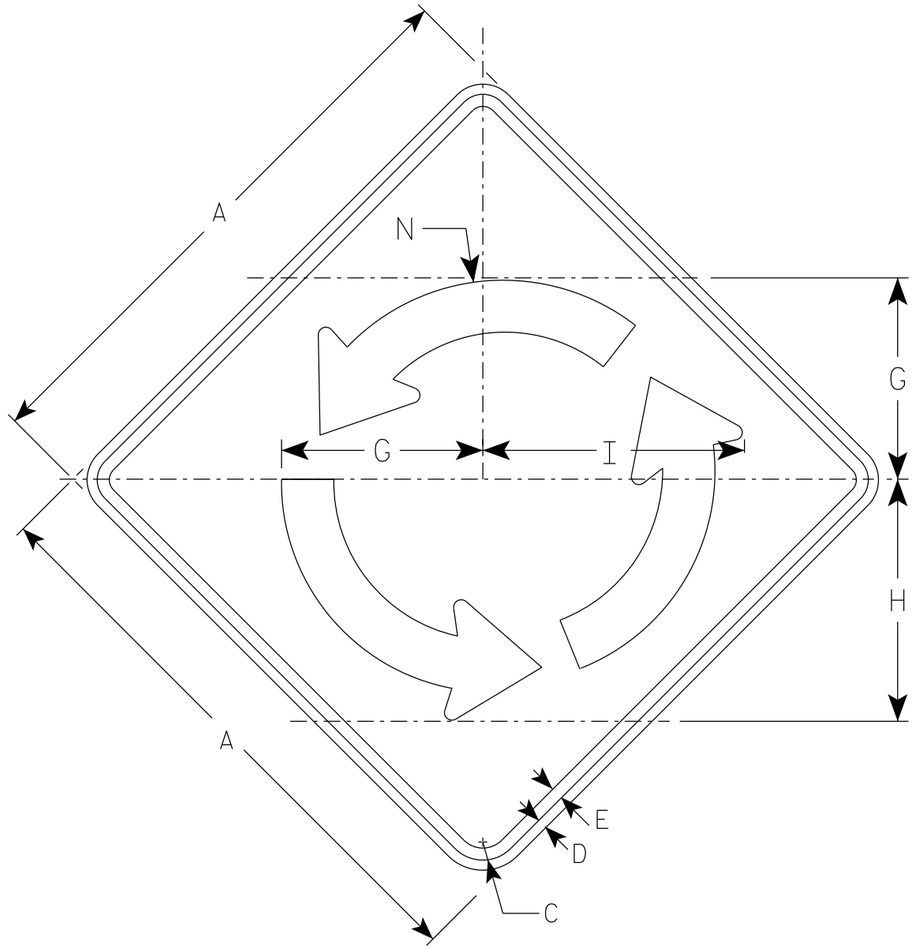
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 399 | E

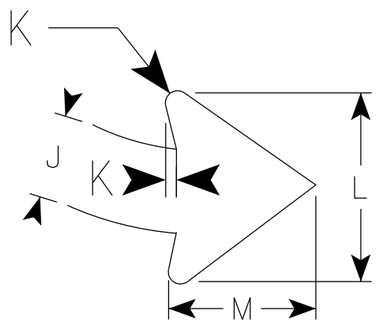


W2-6

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black

Arrow Detail



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Area sq. ft.
1																									
2S	30		1 3/8	1/2	5/8		10 3/8	12 1/2	13 1/2	2 3/4	3/8	6	4 3/4	11 1/8											6.25
2M	30		1 3/8	1/2	5/8		10 3/8	12 1/2	13 1/2	2 3/4	3/8	6	4 3/4	11 1/8											6.25
3	36		1 5/8	5/8	3/4		12 1/2	15	16 1/4	3 1/4	1/2	7 3/8	5 3/4	13 3/8											9.00
4	48		2 1/4	3/4	1		16 5/8	20	16 1/4	4 3/8	5/8	9 3/4	7 5/8	17 7/8											16.0
5																									

STANDARD SIGN
W2-6

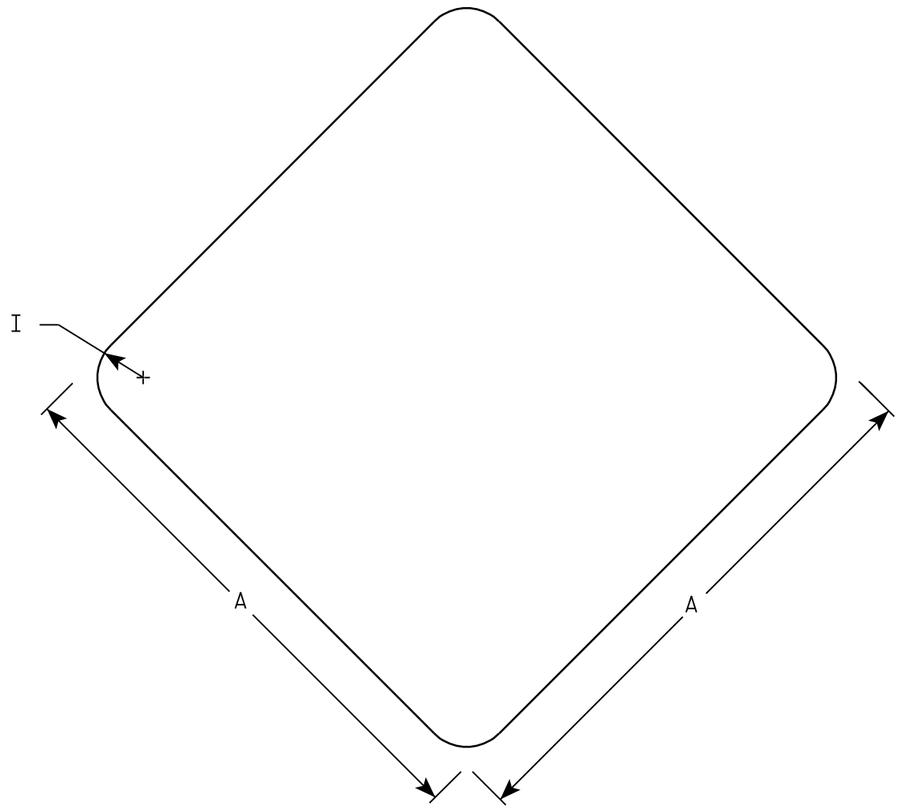
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/21 PLATE NO. W2-6.7

PROJECT NO:

SHEET NO: 400 E



W5-54

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
3. Corners may be square or rounded when base material is plywood. When base material is metal the corners 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	12								1																		1.0
2S	18								1 ½																		2.25
2M	18								1 ½																		2.25
3																											
4																											
5																											

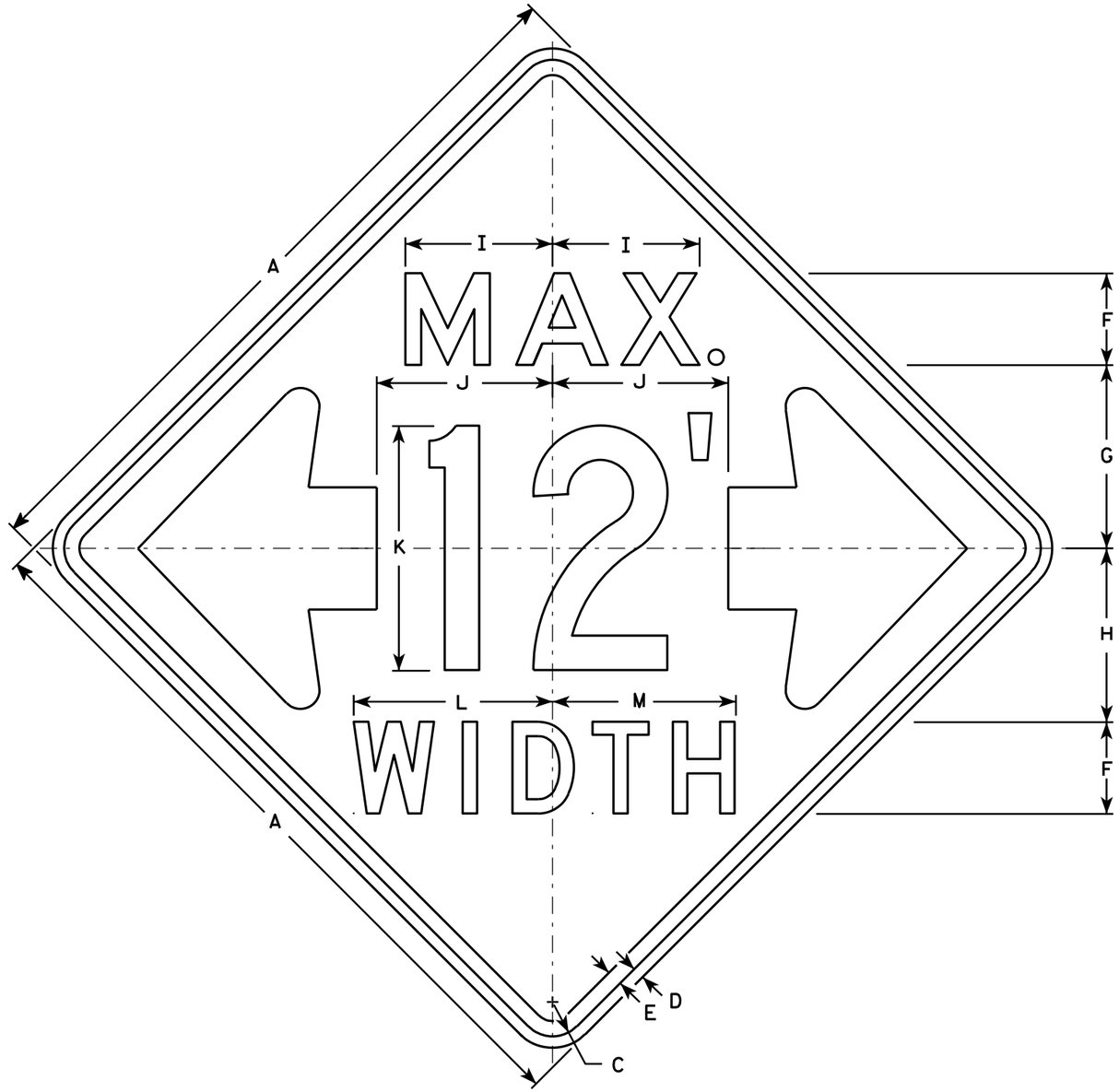
STANDARD SIGN
W5-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/3/10 PLATE NO. W5-54.8

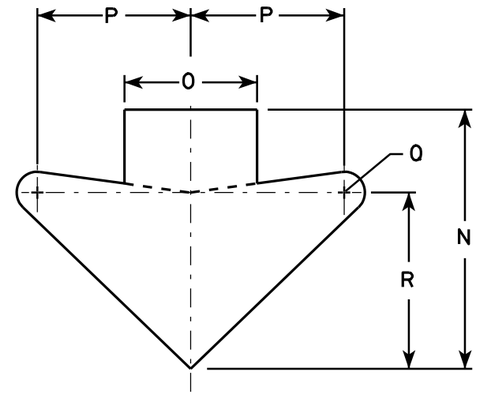
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 401 | E



W12-52

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. The top line is series E, the numerals are series C, and the bottom line is series D.
6. Substitute appropriate numerals and adjust spacing as required.



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	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
3																											
4																											
5																											

STANDARD SIGN
W12-52

WISCONSIN DEPT OF TRANSPORTATION

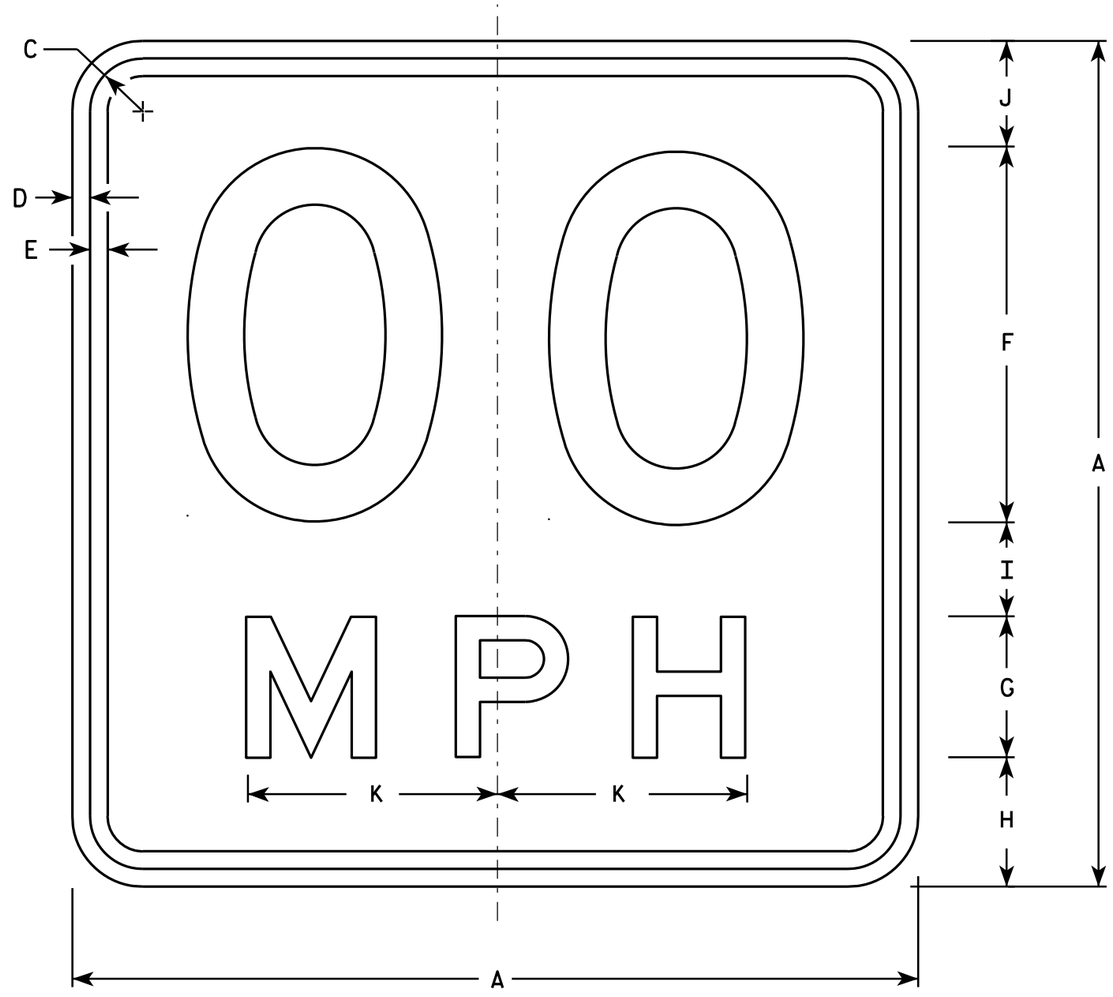
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 402 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W1252.DGN PLOT DATE : 16-MAR-2011 14:45 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.137199:1.000000
WISDOT/CADDS SHEET 42



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

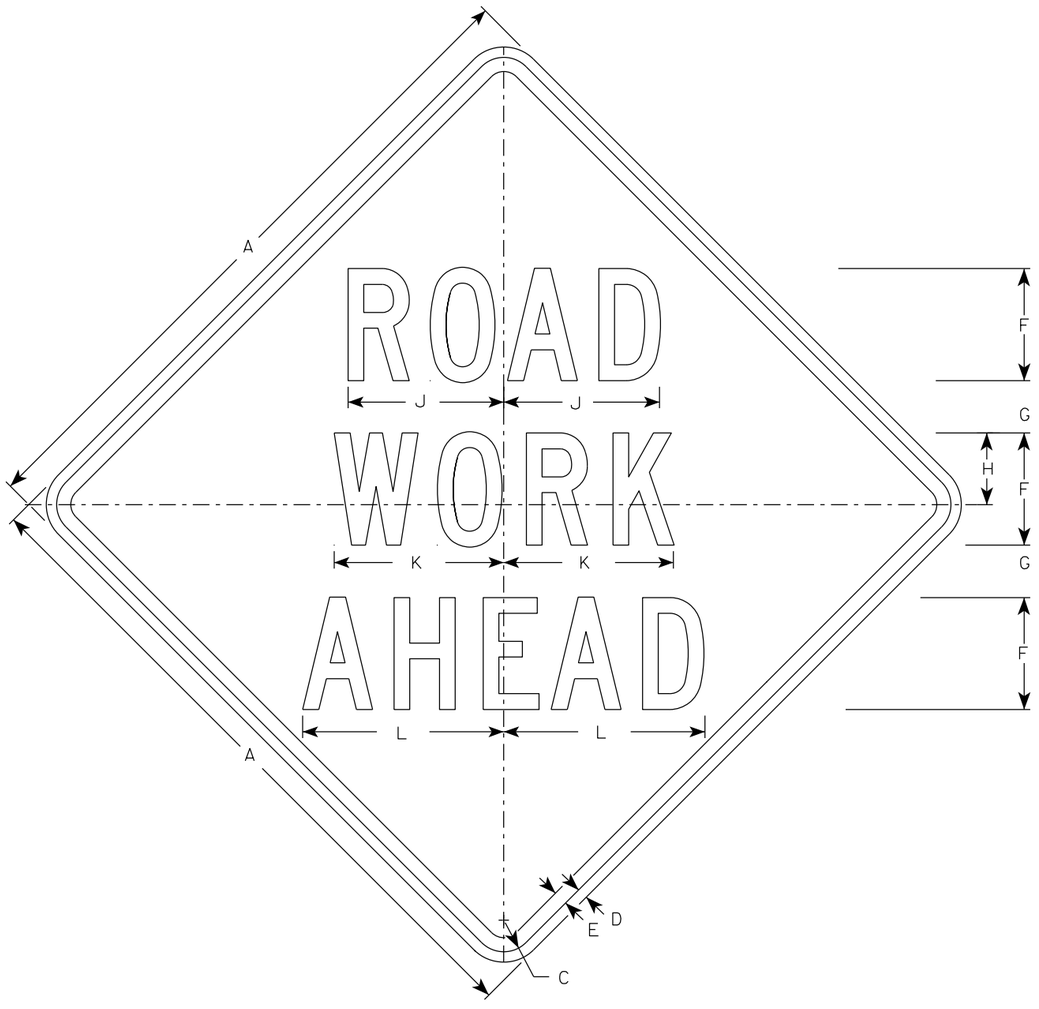
STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

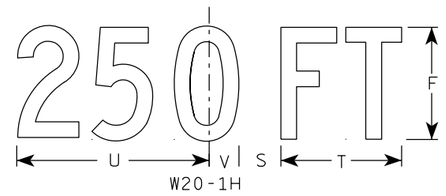
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

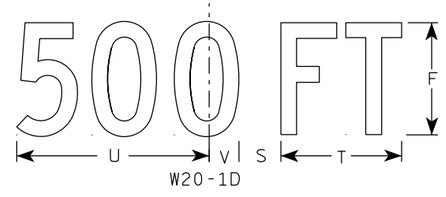
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 403 | E



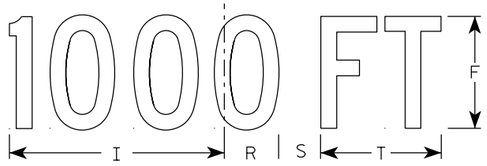
W20-1A



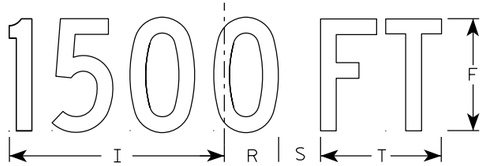
W20-1H



W20-1D



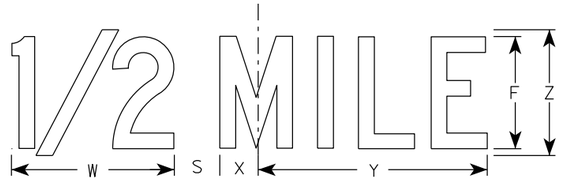
W20-1C



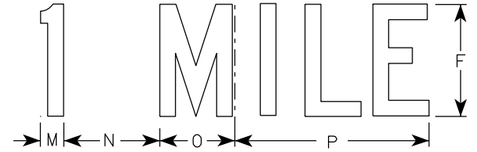
W20-1B

NOTES

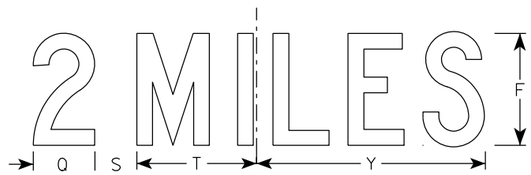
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1G



W20-1F



W20-1E

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	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	3 1/4	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, E, F, G & H

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 3/25/2020 PLATE NO. W20-1.11

PROJECT NO:

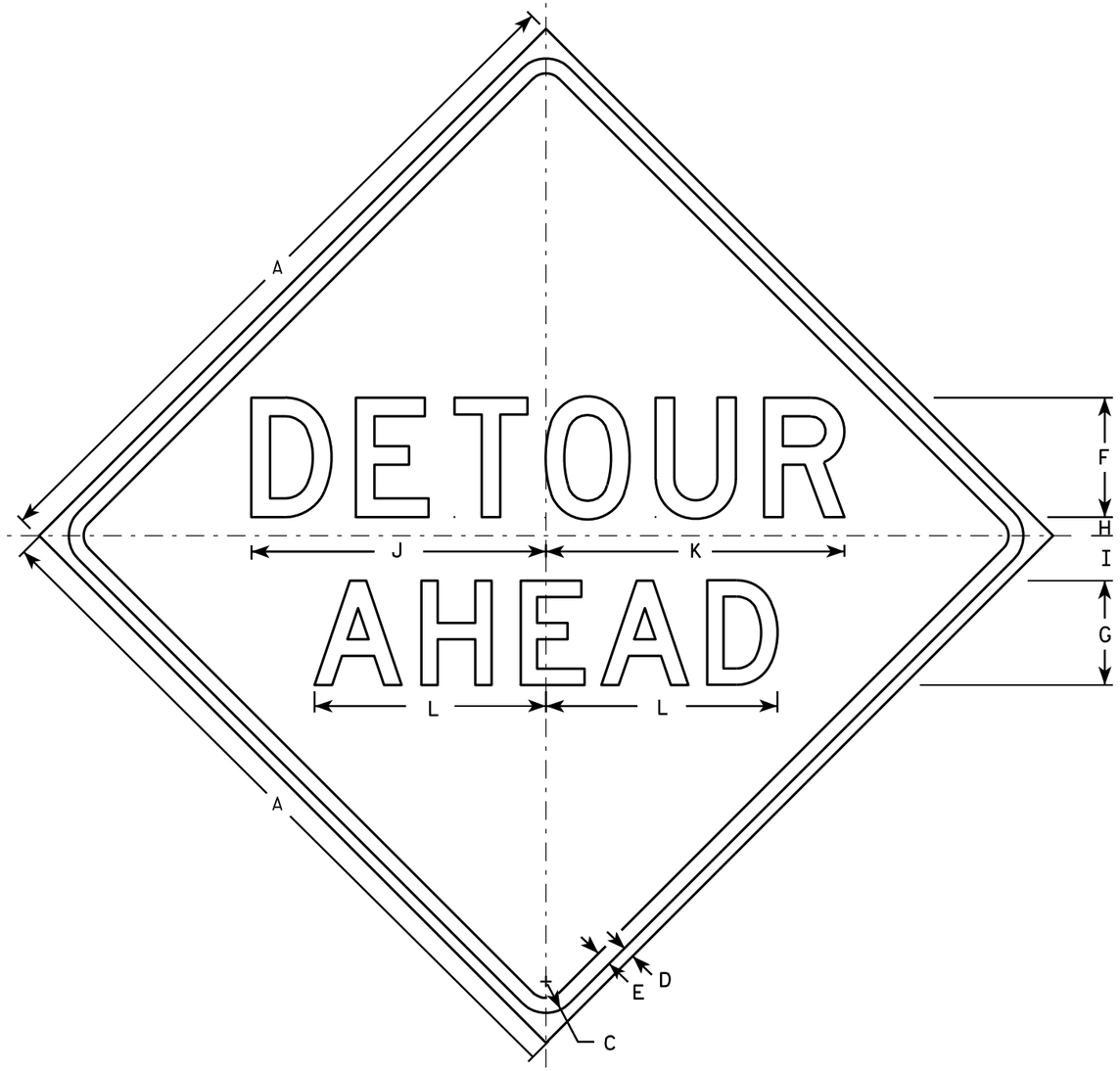
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 25-MARCH-2020 PLOT BY : dotc4c

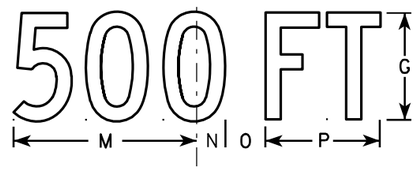
WISDOT/CADDS SHEET 42

7

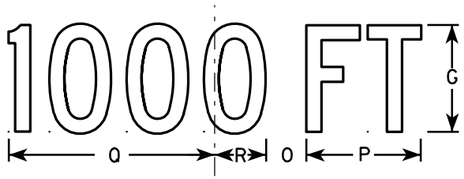
7



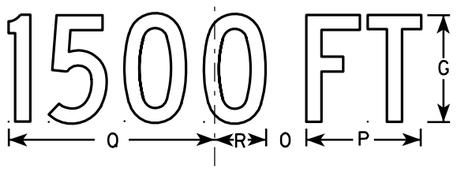
W20-2A



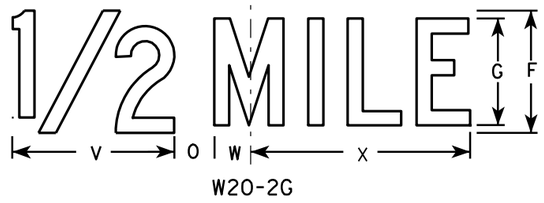
W20-2D



W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

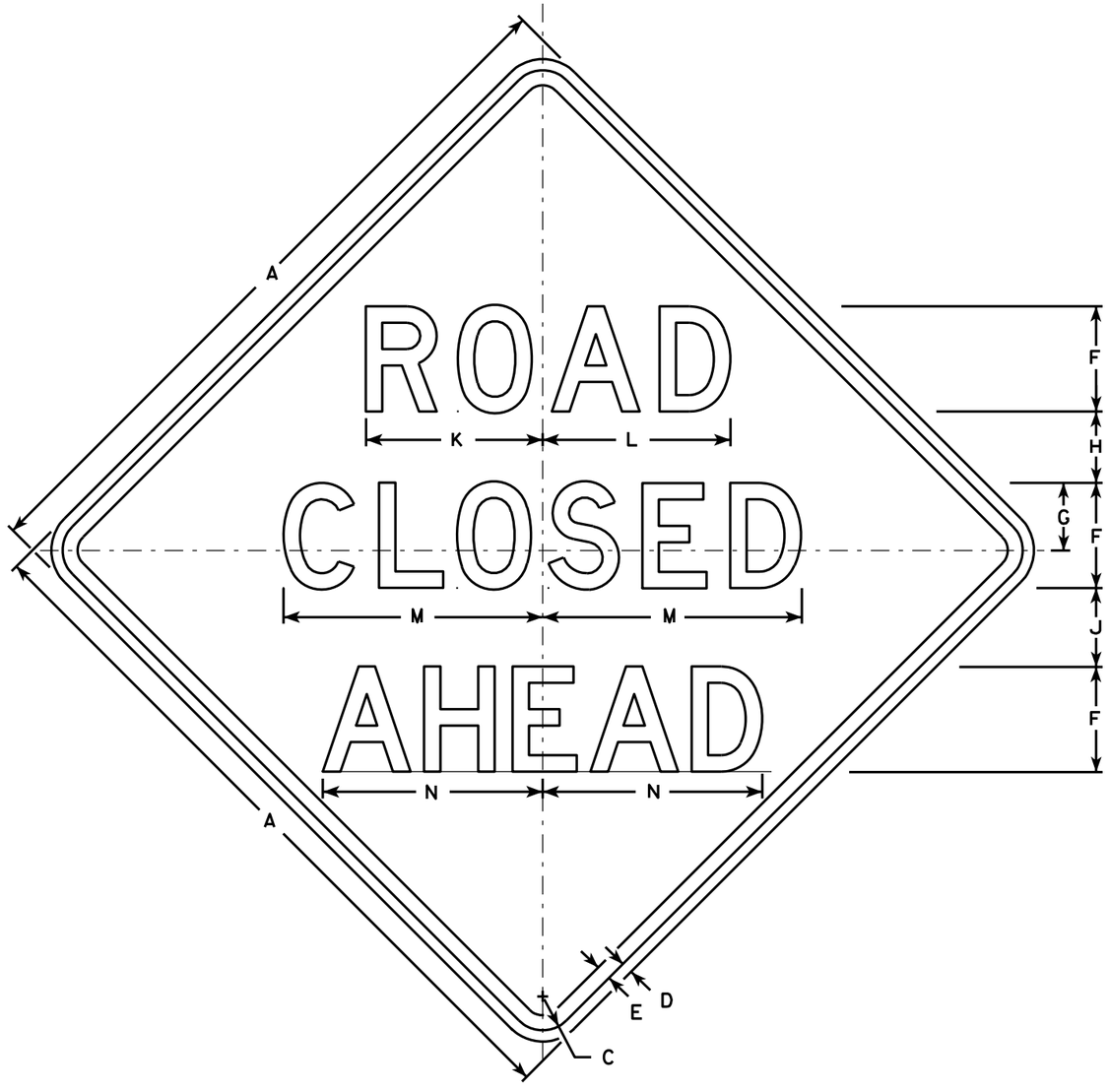
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

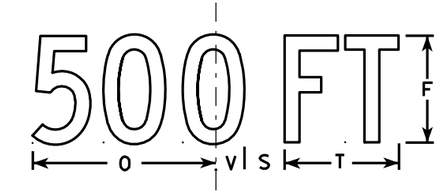
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 405 | E

7

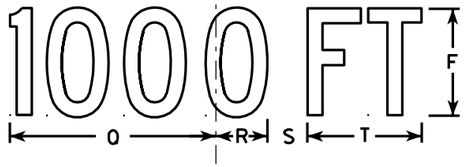
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W202.DGN PLOT DATE : 18-MAR-2011 10:00 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000
WISDOT/CADDS SHEET 42



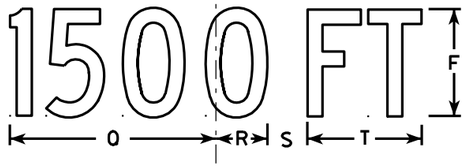
W20-3A



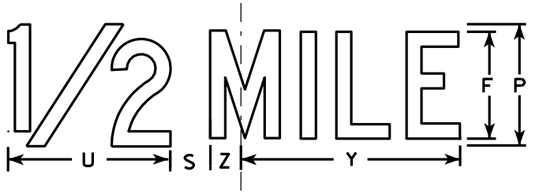
W20-3D



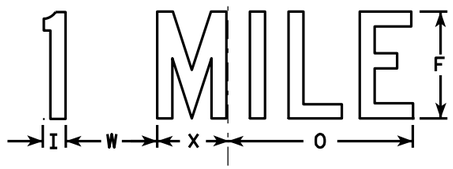
W20-3C



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

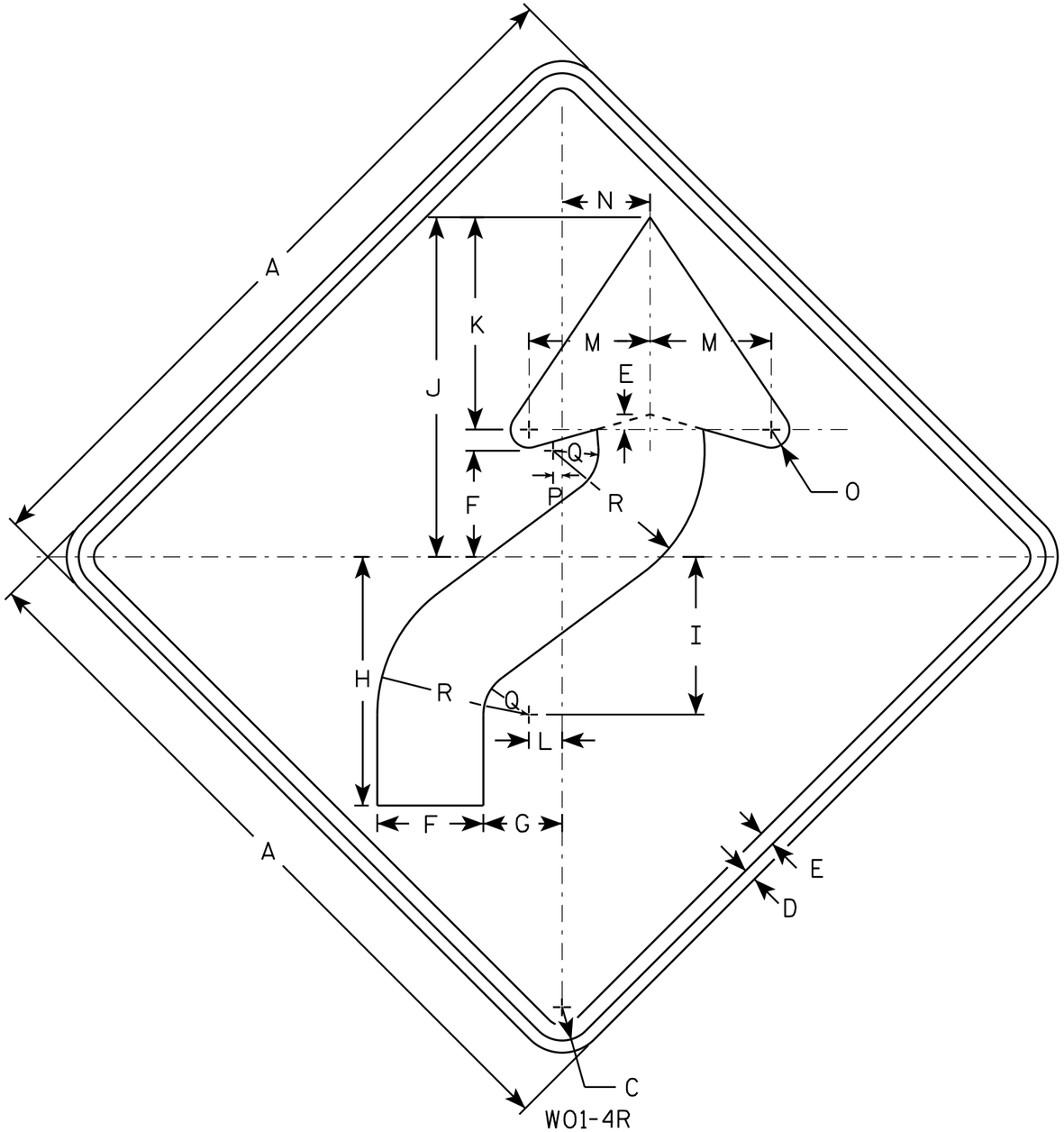
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 406 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN PLOT DATE : 18-MAR-2011 12:08 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000
WISDOT/CADDS SHEET 42



W01-4R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN
W01-4

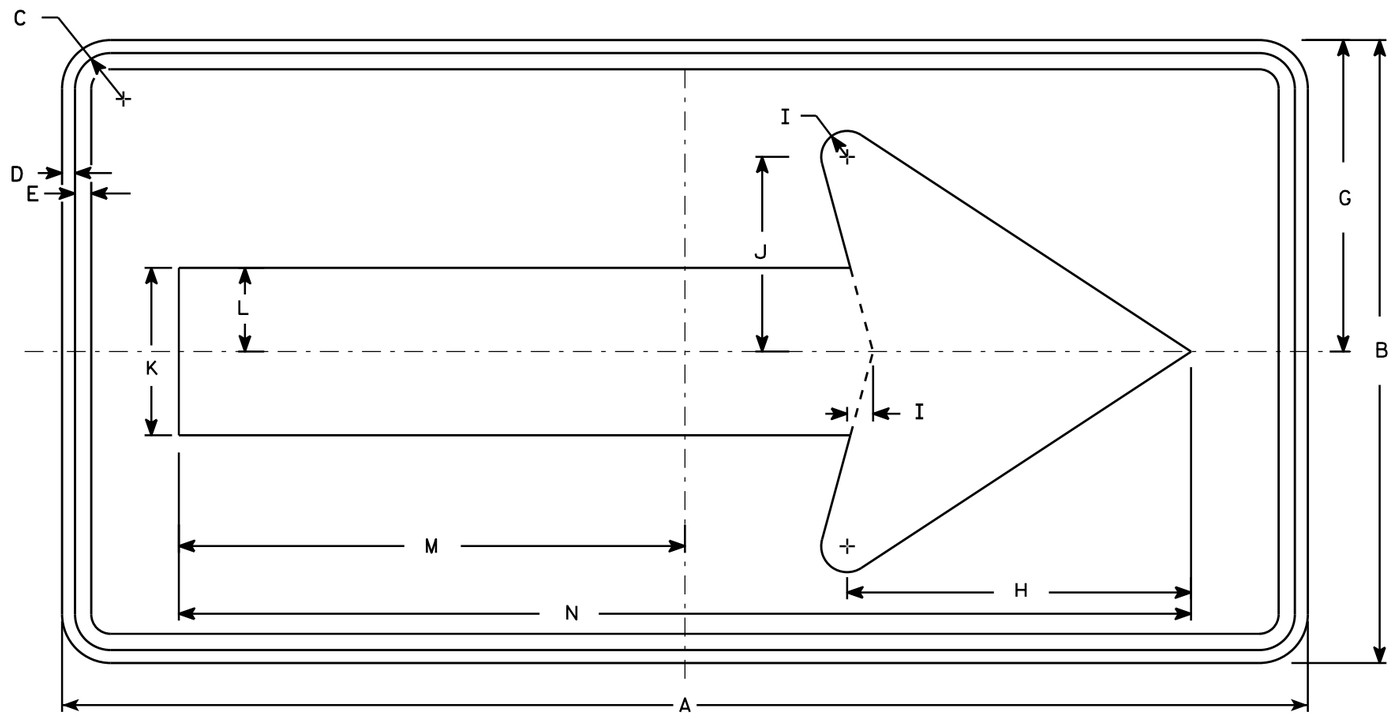
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO W01-4.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W014.DGN PLOT DATE : 28-FEB-2014 11:35 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.755110:1.000000
WISDOT/CADDS SHEET 42



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

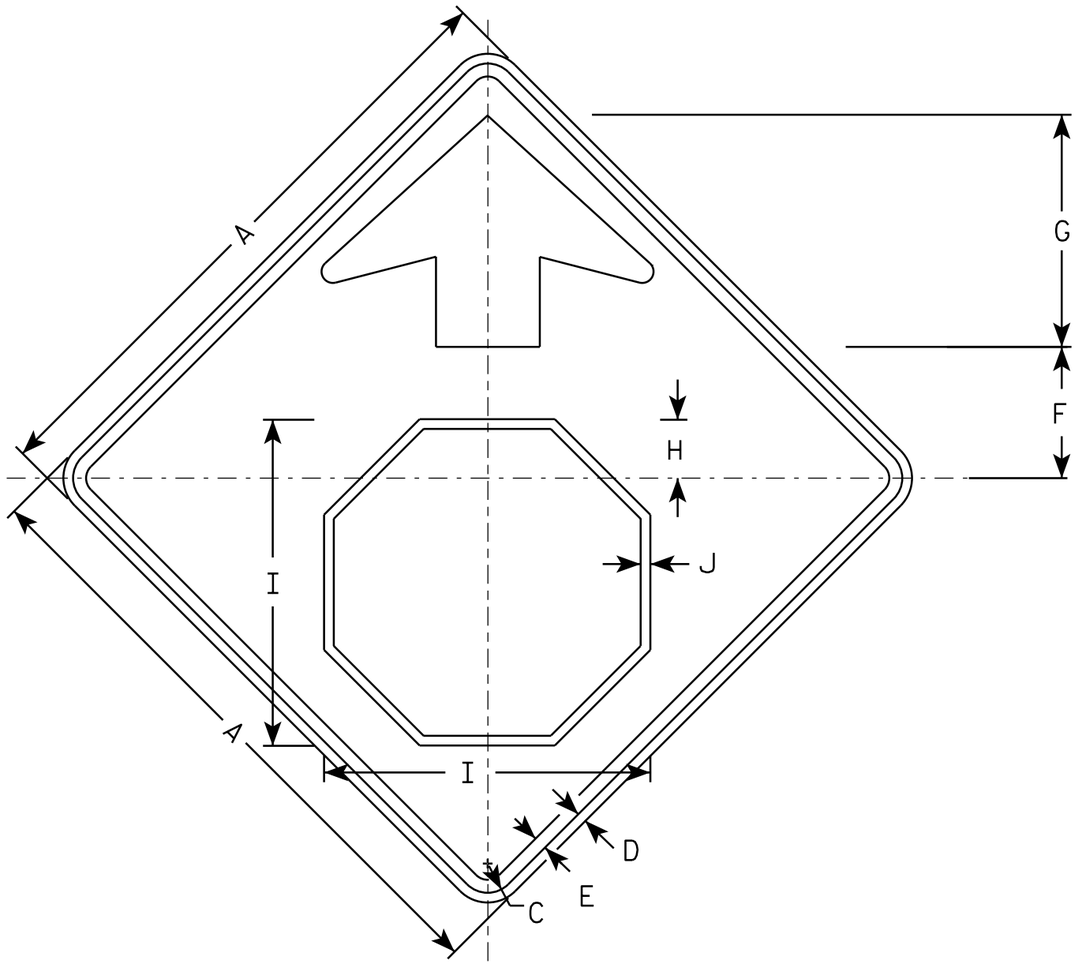
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE W01-6.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

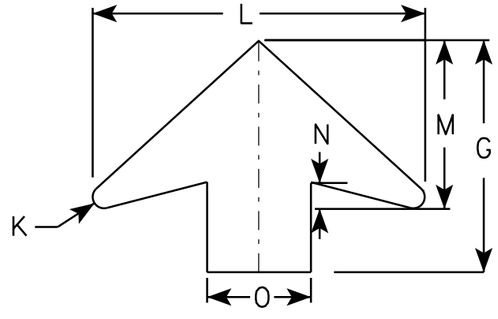
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



W03-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - ORANGE
   Arrow & Border - BLACK
   Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2S	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
2M	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
3	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

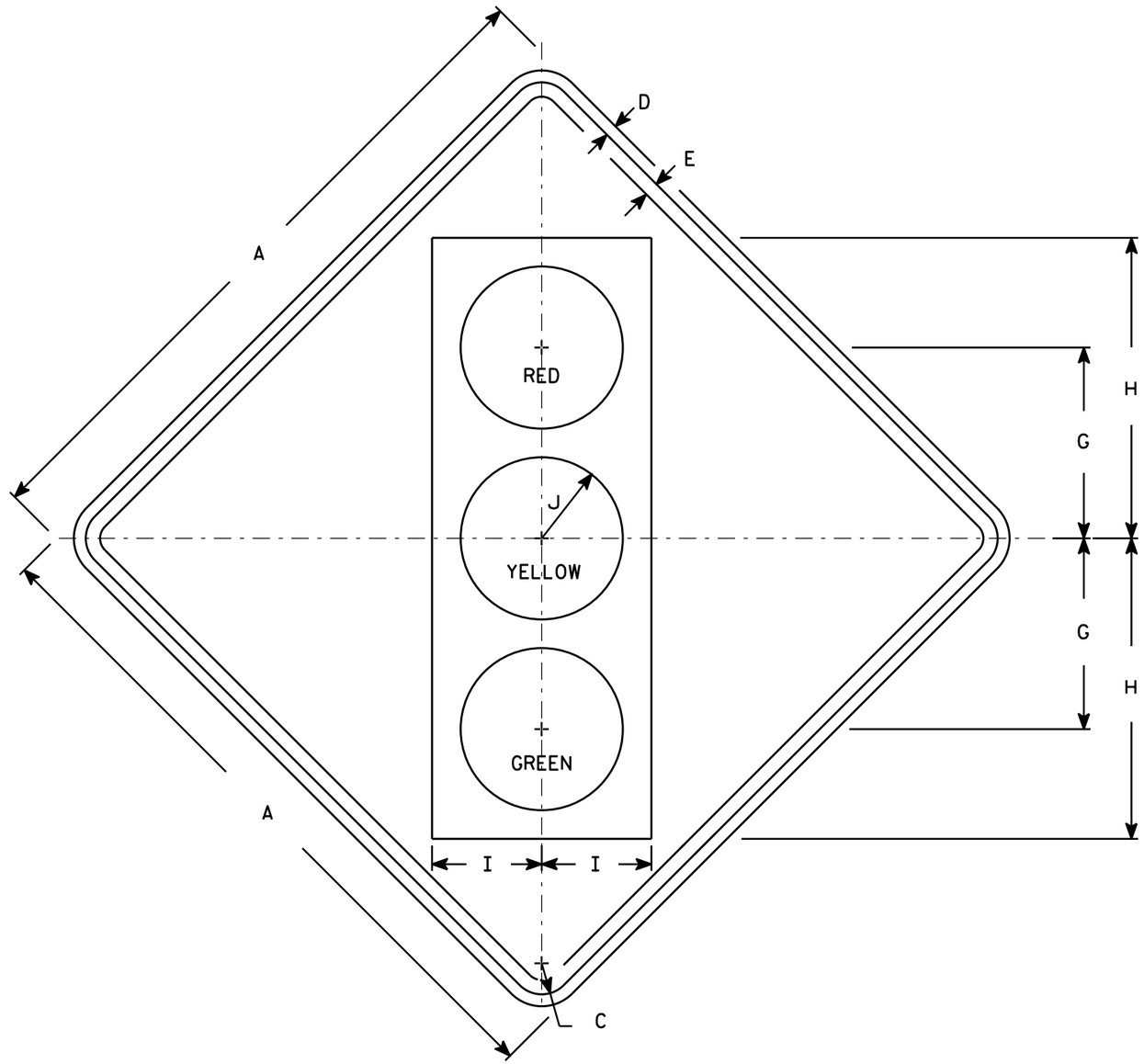
STANDARD SIGN
W03-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 409 03-1.1

PROJECT NO: | SHEET NO: E



W03-3

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 - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2S	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
2M	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
3	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

STANDARD SIGN
W03-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 410 W03-3.1

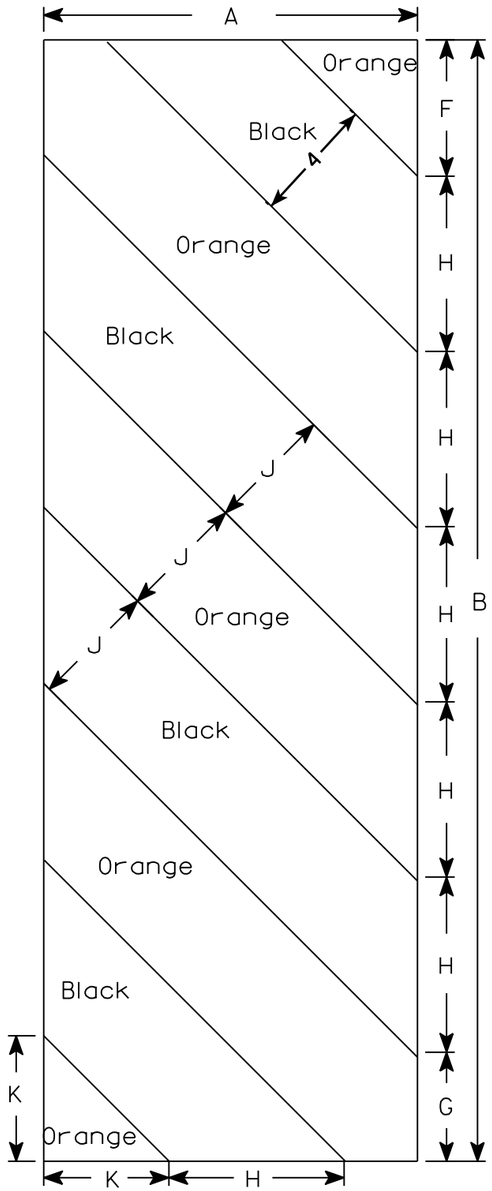
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W033.DGN PLOT DATE : 20-NOV-2013 11:26 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 7.296908:1.000000

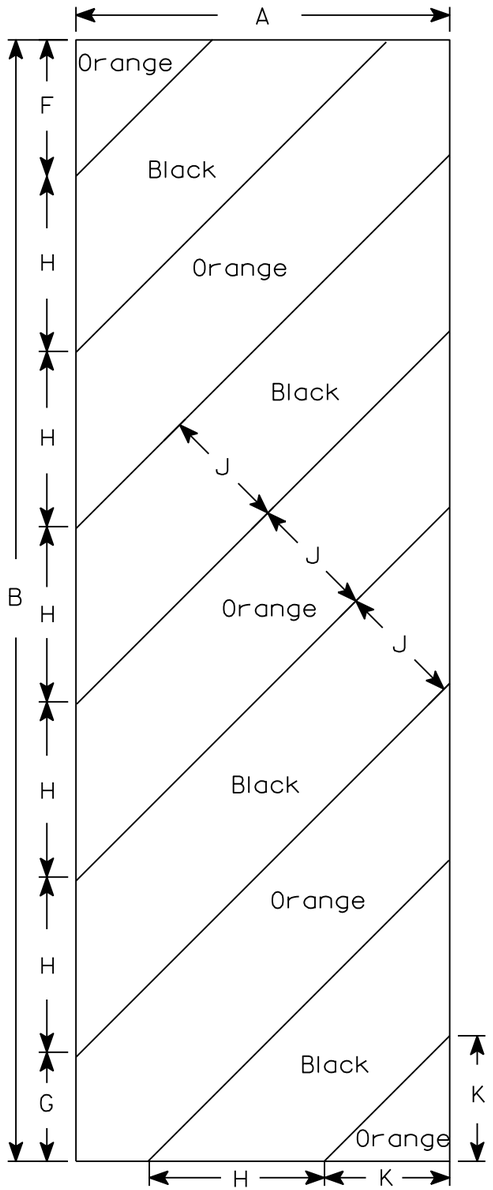
WISDOT/CADDS SHEET 42

7

7



W05-52L



W05-52R

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. Alternate colors of stripes as shown.

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	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

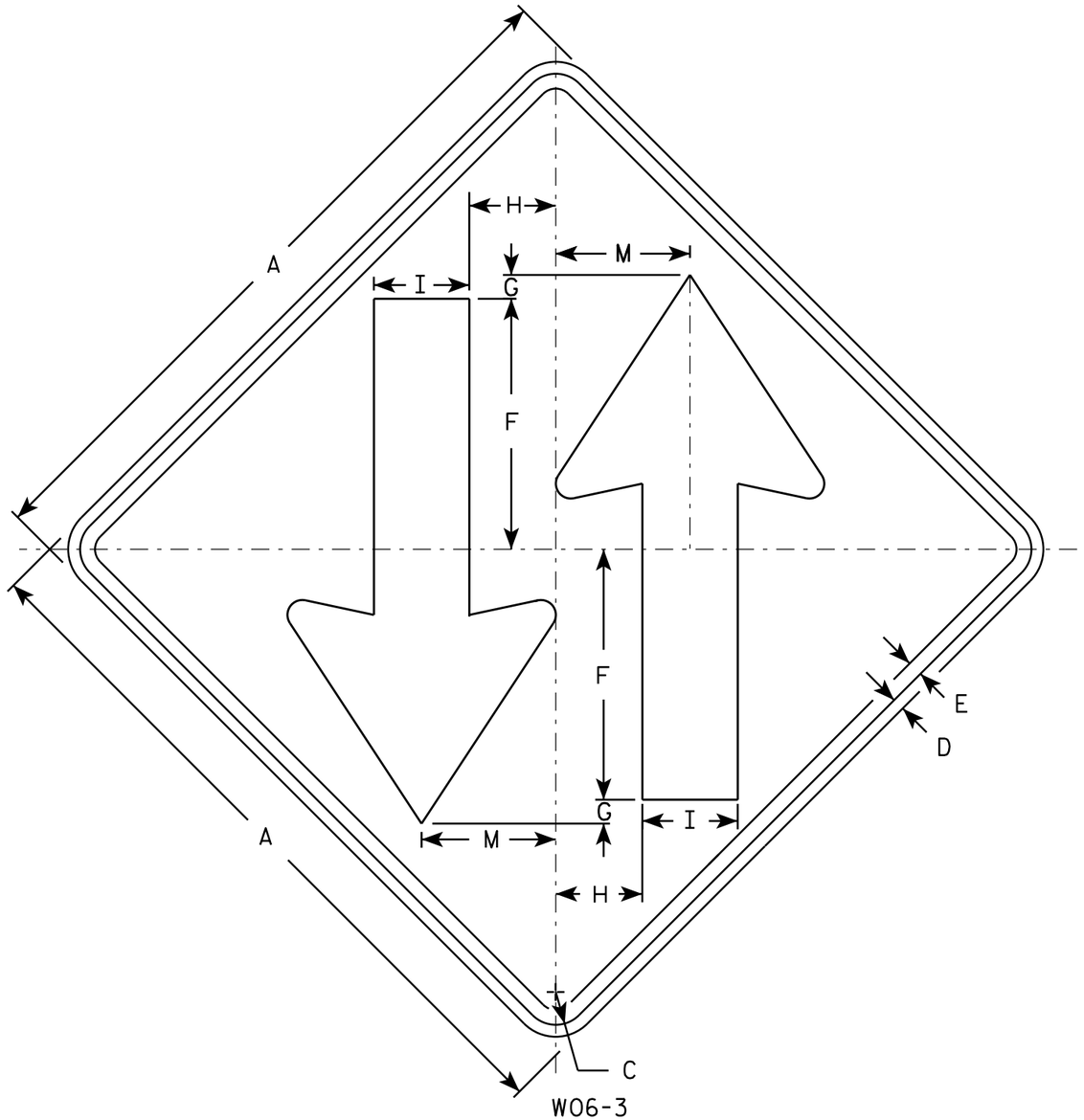
STANDARD SIGN
W05-52L & W05-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE No. W05-52.1

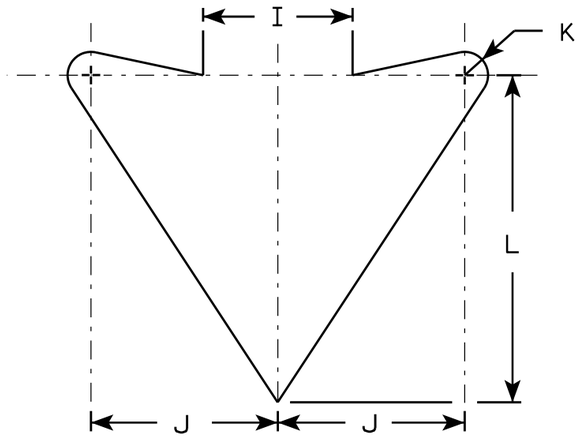
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



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

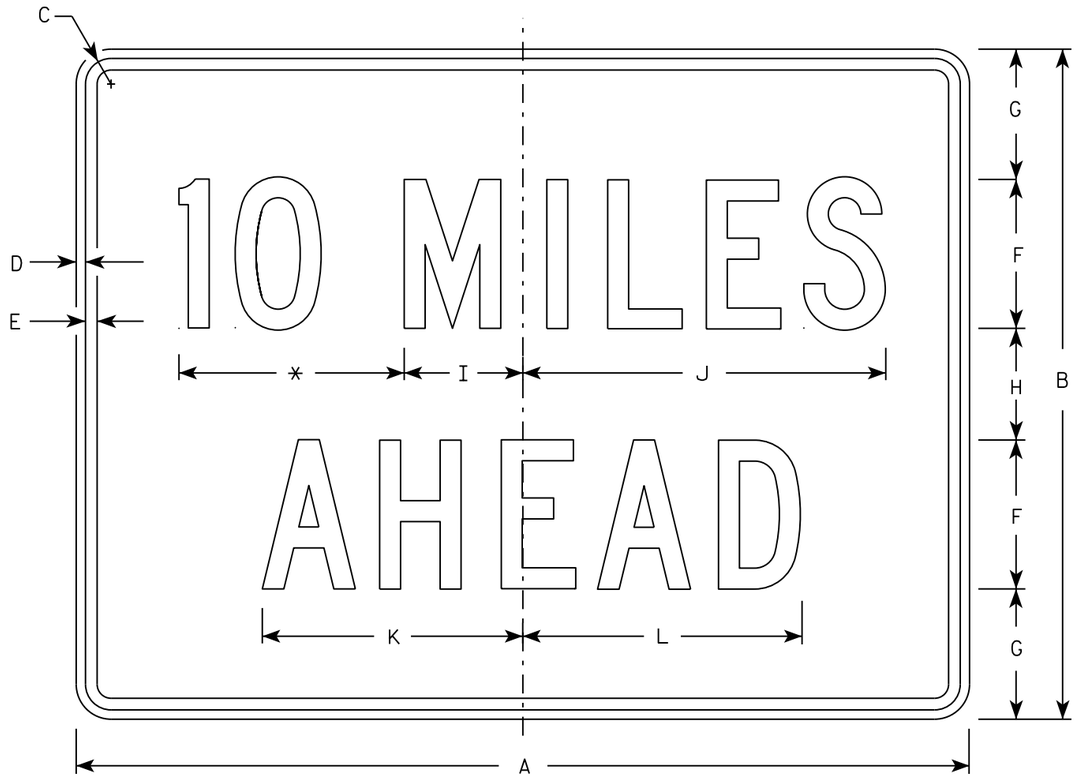
STANDARD SIGN
W06-3

WISCONSIN DEPT OF TRANSPORTATION

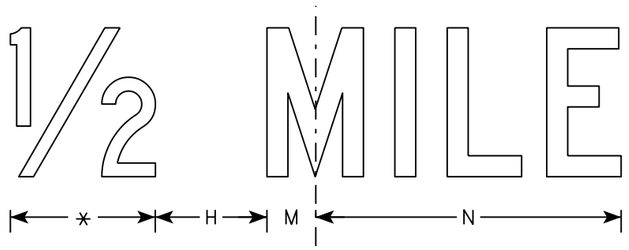
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 412 W06-3.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



W057-52



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.
5. Substitute appropriate numerals to the nearest quarter mile and optically adjust spacing to achieve proper balance.

* See note 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.
1	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	12													6.0
2S	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
2M	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
3	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
4	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
5	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0

STANDARD SIGN
W057-52

WISCONSIN DEPT OF TRANSPORTATION

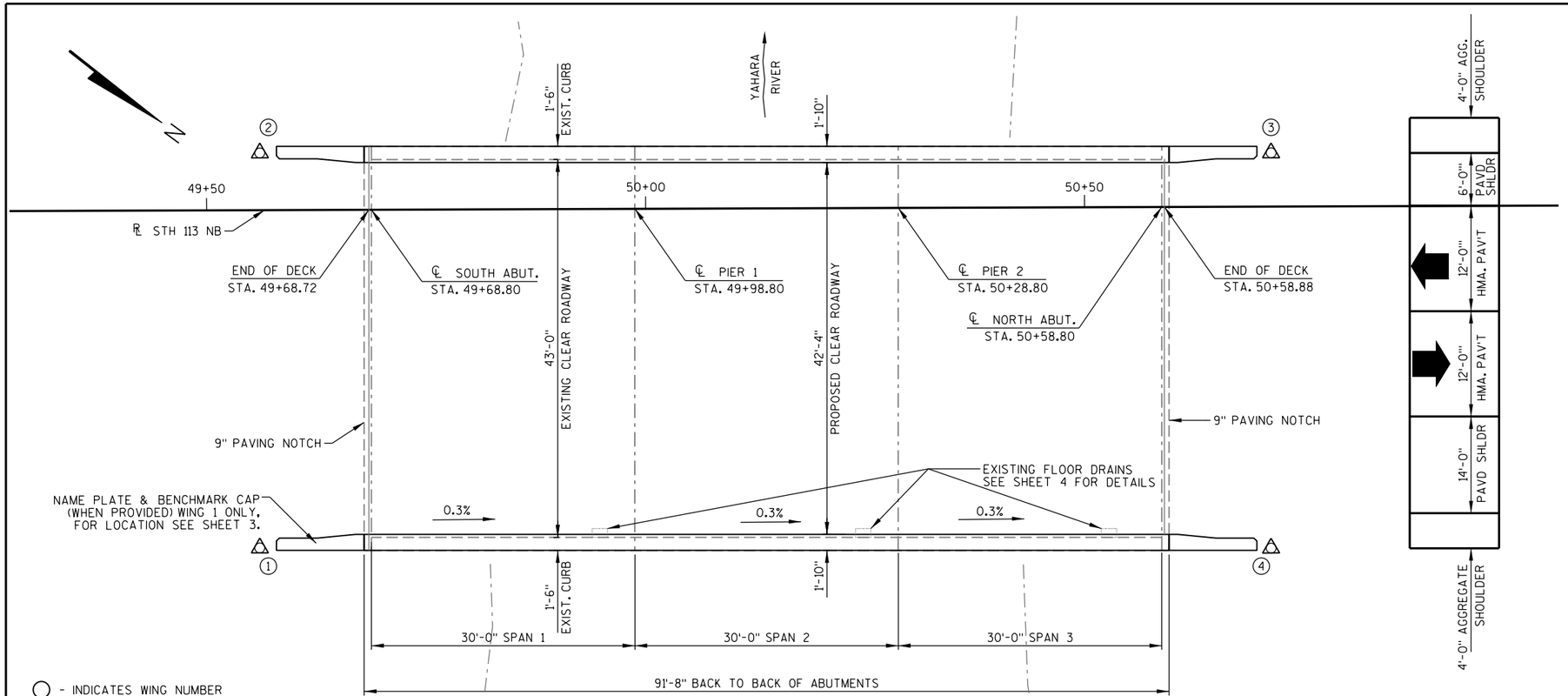
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W057-52.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 413	E

STATE PROJECT NUMBER

5420-02-72

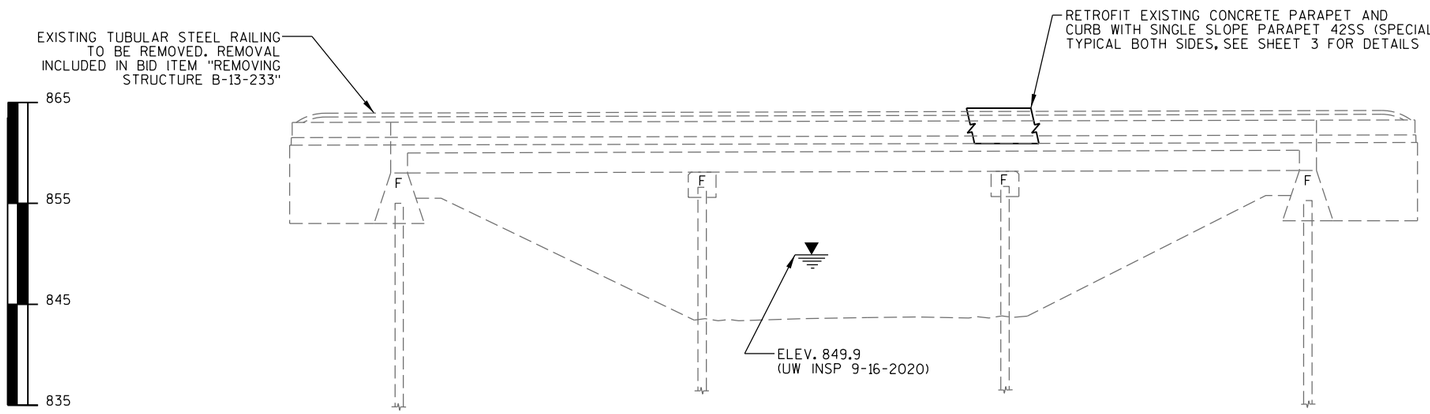


○ - INDICATES WING NUMBER

△ - INDICATES LOCATION OF PROVISION FOR THRIE BEAM GUARD ATTACHMENT.

PLAN

(REHAB - PARAPET AND DECK REPAIRS ON EXISTING THREE SPAN CONTINOUS STEEL DECK GIRDER BRIDGE)



ELEVATION

(LOOKING WEST)

DESIGN DATA

LIVE LOAD:

DESIGN LOADING ——— HS20
INVENTORY RATING (LFR) ——— HS19
OPERATIONAL RATING (LFR) ——— HS32
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) ——— 210 KIPS

TRAFFIC DATA:

A.A.D.T. (2023) = 20,400
A.A.D.T. (2043) = 22,200
DESIGNED SPEED= 60MPH

MATERIAL PROPERTIES:

CONCRETE MASONRY, SUPERSTRUCTURE ——— f'c = 4,000 P.S.I.
CONCRETE MASONRY, ALL OTHER ——— f'c = 3,500 P.S.I.
HIGH-STRENGTH BAR STEEL REINFORCEMENT, GRADE 60 ——— fy = 60,000 P.S.I.

WISCONSIN PROFESSIONAL ENGINEER
NATHAN J KINDT
E-48663
SUAMICO
WIS.
Nathan J Kindt
9-1-2022

CONSULTANT DESIGN CONTACT:
JULIA ZEHNER
(608) 355-8878

BRIDGE OFFICE CONTACT:
AARON BONK
(608) 261-0261

LIST OF DRAWINGS

1. REHAB GENERAL PLAN
2. CROSS SECTION, QUANTITIES & NOTES
3. PARAPET 42SS (SPECIAL) ENDING ON DECK
4. PARAPET 42SS (SPECIAL) DETAILS

NO.	DATE	REVISION	BY

MSA
ENGINEERING | ARCHITECTURE | SURVEYING
FUNDING | PLANNING | ENVIRONMENTAL
1702 PANKRATZ STREET, MADISON WI 53704
(608) 242-7779 www.msa-ps.com

© MSA Professional Services, Inc.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED SDR 11/21/22
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-13-233

STH 113 NB OVER YAHARA RIVER

COUNTY	TOWN/CITY/~~VILLAGE~~
DANE	MADISON

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
NJK	JZ	RLR	NJK

REHAB GENERAL PLAN

SHEET 1 OF 4
414

8

8

FILE= 93628_B-13-233_01.DGN

93628_B-13-233_01.dgn 9/1/2022 2:18:16 PM ekazadi

STATE PROJECT NUMBER
5420-02-72

ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM	UNIT	TOTAL
203.0220	REMOVING STRUCTURE B-13-233	EACH	1
502.0100	CONCRETE MASONRY BRIDGES	CY	24
502.3210	PIGMENTED SURFACE SEALER	SY	121
502.4205	ADHESIVE ANCHORS NO. 5 BAR	EACH	720
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	3170
509.9050.S.01	CLEANING PARAPETS	LF	224
	NON-BID ITEMS		
	PREFORMED FILLER	SIZE	1/2"
	PLASTIC OR ZINC PLATE	SIZE	1/8"

* CONCRETE SURFACE REPAIR SHALL BE USED FOR NEEDED REPAIRS. LOCATIONS AND LIMITS OF REPAIRS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

SEE ROAD PLANS FOR TRAFFIC CONTROL.

DIMENSIONS SHOWN ARE BASED ON THE 1995 OVERLAY PLANS AND THE EXISTING ORIGINAL STRUCTURE PLANS.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE NOT SHOWN.

IMPROVEMENTS INCLUDE PARAPET REHABILITATION.

THIS PROJECT WILL REHABILITATE THE EXISTING CONCRETE PARAPETS AND CURBS ON STRUCTURE B-13-233, A THREE SPAN 91'-8"' STEEL CONTINOUS DECK GIRDER BRIDGE SET ON CONCRETE SILL ABUTMENTS AND CONCRETE CAPPED PILE BENT PIERS.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE FIRST DIGIT OF A THREE DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

APPLY PIGMENTED SURFACE SEALER TO THE TOP, ROADWAY FACE, AND ENDS OF THE OF THE NEW SINGLE SLOPE PARAPET 42SS (SPECIAL).

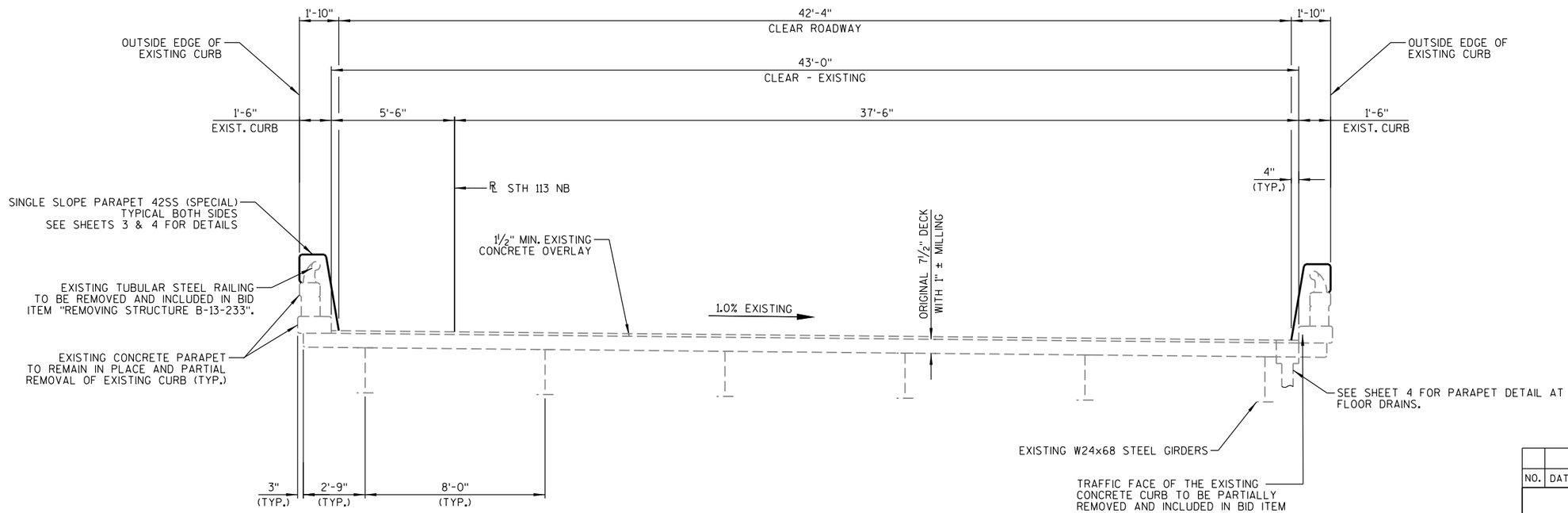
CLEAN AND PREPARE THE EXISTING PARAPET AND CURB SURFACES IN ACCORDANCE WITH THE BID ITEM 509.9050.S.01 CLEANING PARAPETS.

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE SHALL SHOW THE ORIGINAL CONSTRUCTION YEAR OF 1965.

"REMOVING OLD STRUCTURE B-13-233" INCLUDES THE REMOVAL OF:
- EXISTING TUBULAR STEEL RAILING
- ANY PORTION OF THE CURB REQUIRED TO MAINTAIN THE MINIMUM CONCRETE THICKNESS FOR THE NEW PARAPET, AND
- ANY LOOSE CONCRETE ON THE EXISTING PARAPETS.

LOOSE CONCRETE AREAS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

ALL CONCRETE REMOVAL TO BE DEFINED BY A 1/2" DEEP SAWCUT.



CROSS SECTION THRU ROADWAY
(LOOKING NORTH)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-233

DRAWN BY RLR | PLANS CK'D. NJK

CROSS SECTION, QUANTITIES & NOTES

SHEET 2 OF 4
415

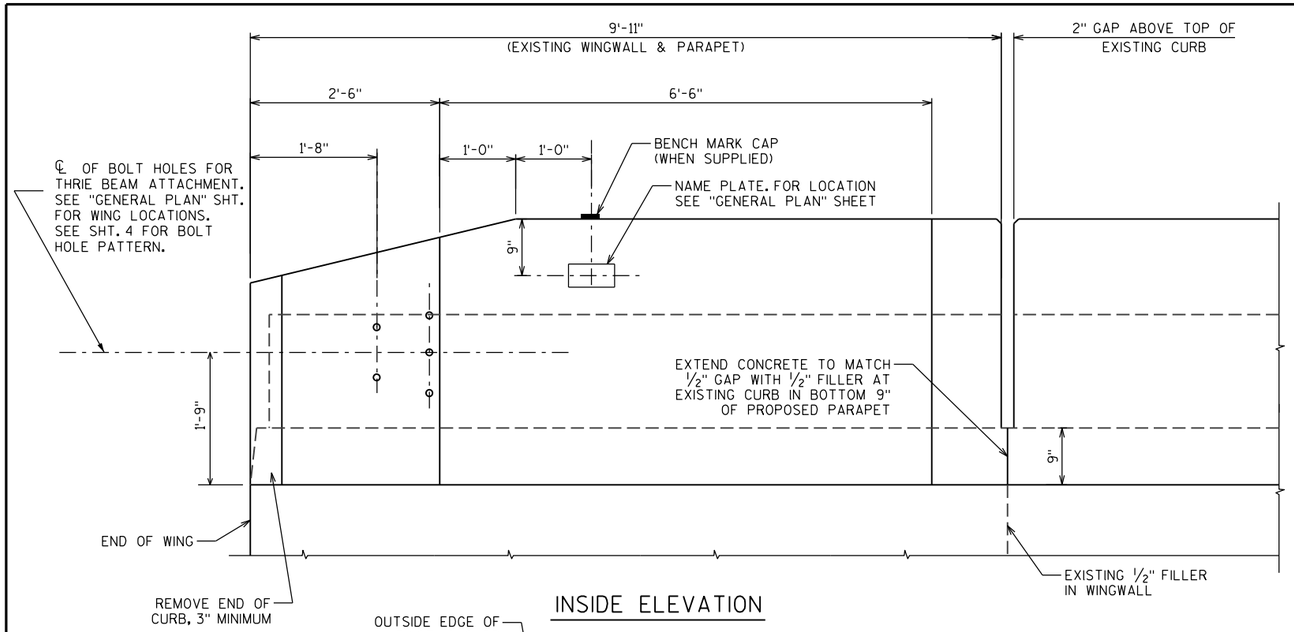
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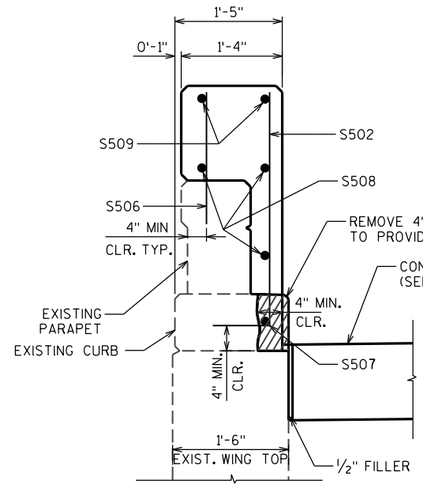
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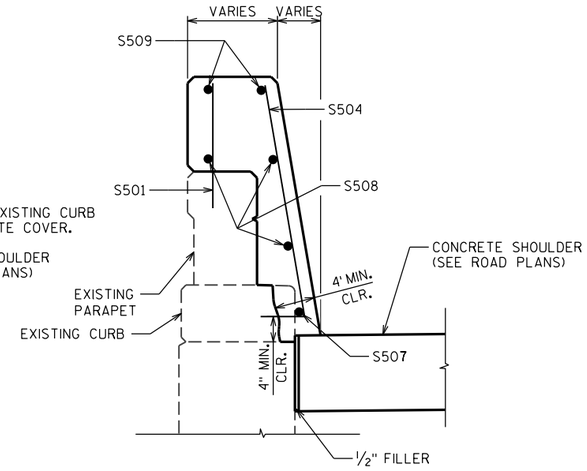
STATE PROJECT NUMBER
5420-02-72



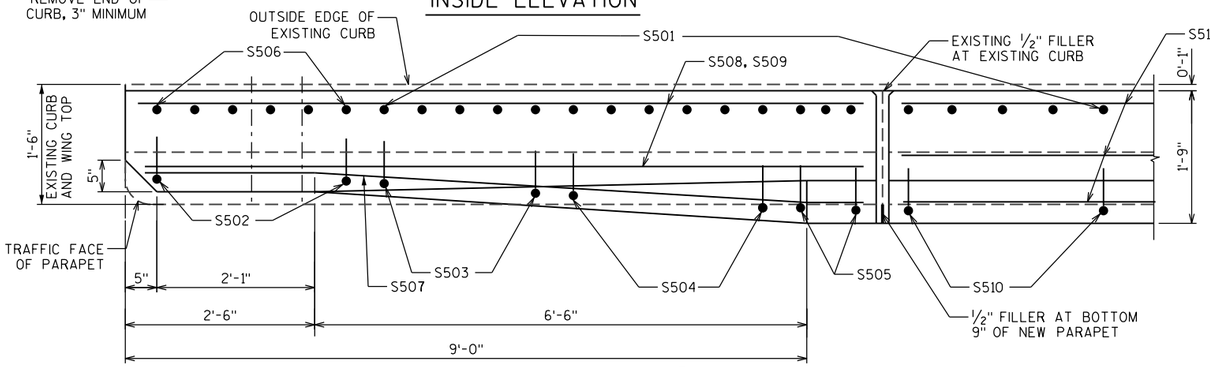
INSIDE ELEVATION



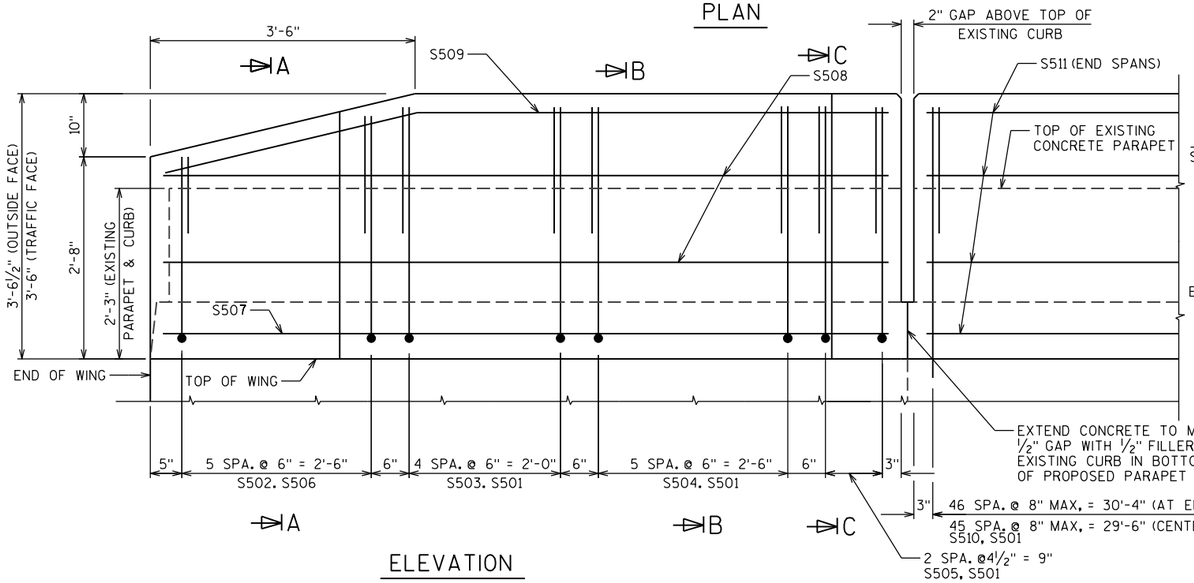
SECTION A-A



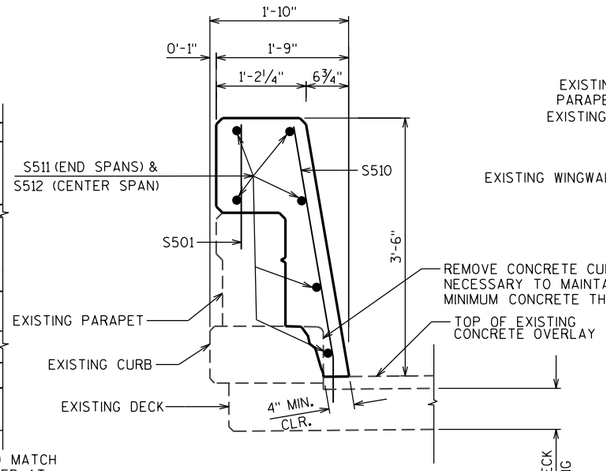
SECTION B-B



PLAN

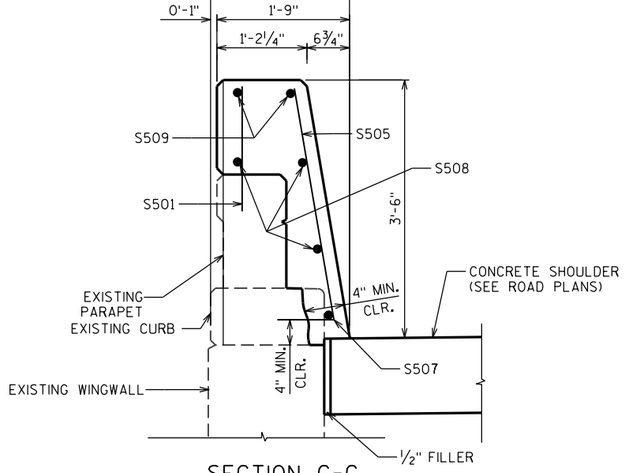


ELEVATION



TYPICAL SECTION THRU PARAPET

REHABILITATION ON BRIDGE



SECTION C-C

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-233

DRAWN BY EKK	PLANS CK'D. NJK

PARAPET 42SS (SPECIAL) ENDING ON DECK

SHEET 3 OF 4
416

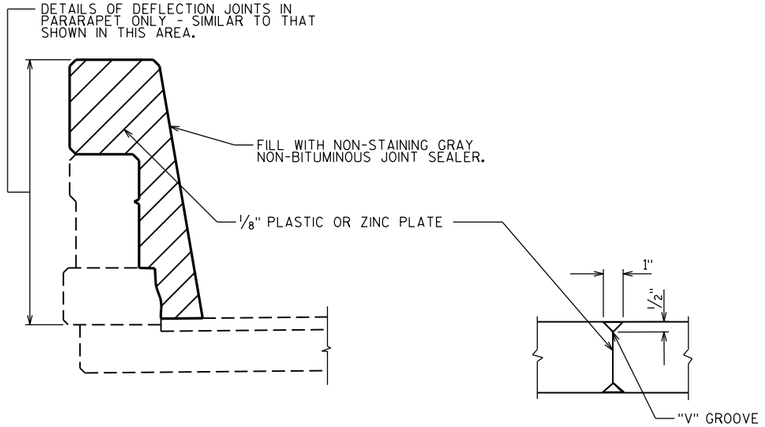
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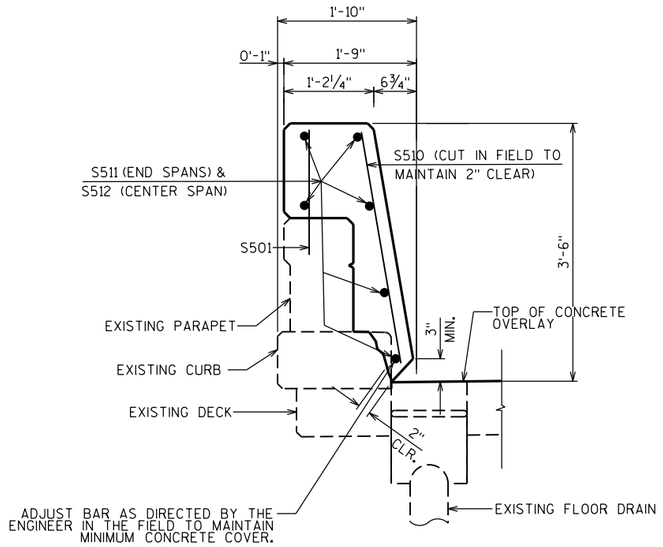
FILE= 93628_B-13-233_03.DGN

STATE PROJECT NUMBER
5420-02-72



DEFLECTION JOINT IN PARAPET AT PIERS

WHEN PARAPETS ARE POURED CONTINOUSLY FROM END TO END, THEY SHALL BE SEPARATED AT THE DEFLECTION JOINTS BY A PIECE OF 1/8" ZINC OR PLASTIC PLATE CUT AS SHOWN ABOVE BY SHADED AREA.



PARAPET DETAIL AT FLOOR DRAINS

BILL OF BARS (COATED) 3170 LBS.

	MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
◪	S501	336	1'-7"			PARAPET ON WINGS AND BRIDGE - VERT.
◪	S502	24	3'-0"	X	Ⓢ	PARAPET ON END - WINGS - VERT.
◪	S503	20	3'-7"	X		PARAPET ON WING - VERT.
◪	S504	24	3'-7"	X		PARAPET ON WING - VERT.
◪	S505	12	3'-7"	X		PARAPET ON WING - VERT.
◪	S506	24	1'-2"		Ⓢ	PARAPET ON WING - VERT.
	S507	4	9'-3"	X		PARAPET ON BOTTOM - WING - HORIZ.
	S508	12	9'-5"			PARAPET ON WINGS - HORIZ.
Δ◪	S509	8	9'-7"	X		PARAPET ON TOP - WINGS - HORIZ.
◪	S510	280	3'-10"	X		PARAPET ON BRIDGE - VERT.
	S511	24	30'-4"			PARAPET ON BRIDGE - LONGIT.
	S512	6	29'-6"			PARAPET ON BRIDGE - LONGIT. - CENTER SPAN

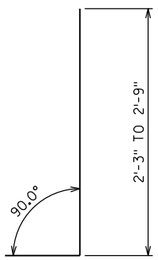
DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

EPOXY COAT ALL BAR STEEL REINFORCEMENT.

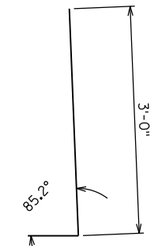
Ⓢ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. BENT BARS IF USED IN BAR SERIES, SHALL BE BENT AFTER CUTTING.

◪ ADHESIVE ANCHORS NO. 5 BAR. EMBED 6" MINIMUM IN CONCRETE. ANCHORS SHALL BE APPROVED FOR USE IN CRACKED CONCRETE.

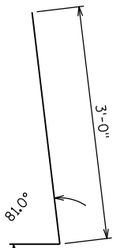
Δ CUT REBAR AT FLOOR DRAIN LOCATIONS IN FIELD AS DIRECTED BY THE ENGINEER.



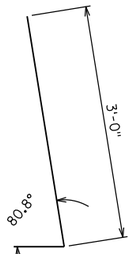
S502



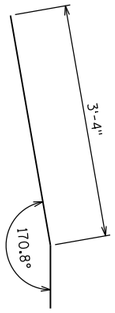
S503



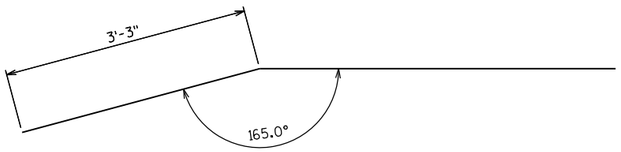
S504



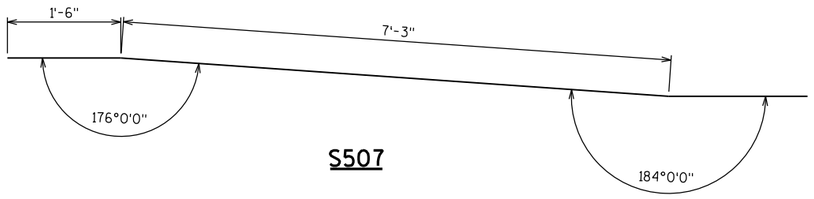
S505



S510



S509

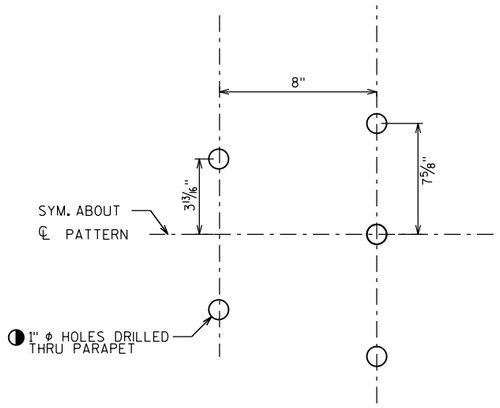


S507

BAR SERIES TABLE

MARK	NUMBER REQD.	LENGTH
S502	4 SERIES OF 6	2'-9" TO 3'-3"
S506	4 SERIES OF 6	10" TO 1'-5"

BUNDLE AND TAG EACH SERIES SEPARATELY.



DETAIL OF THRIE BEAM BOLT PATTERN

◑ DRILLING BOLT HOLES THROUGH THE PARAPET IS INCIDENTAL TO THE ITEM "CONCRETE MANSORY BRIDGES".

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-233

DRAWN BY EKK | PLANS CK'D. NJK

PARAPET 42SS (SPECIAL) DETAILS

SHEET 4 OF 4
417

8

8

93628_B-13-233_04.dgn 8/26/2022 9:31:26 AM ekazadi

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Notes:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - EXPANDED ROCK) * FILL FACTOR)]

STAGE 1 NB STH 113 KNUTSON TO DEBS

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
10+00.00	1000.00	0.00	59.94	0.00	0	0	0	0	0	0
11+00.00	1100.00	100.00	151.88	0.00	392	0	0	392	0	392
12+00.00	1200.00	100.00	156.39	0.00	571	0	0	963	0	963
13+00.00	1300.00	100.00	138.76	0.00	547	0	0	1,510	0	1,510
14+00.00	1400.00	100.00	125.28	0.01	489	0	0	1,999	0	1,999
15+00.00	1500.00	100.00	129.82	0.00	472	0	0	2,471	0	2,471
16+00.00	1600.00	100.00	128.50	0.00	478	0	0	2,949	0	2,949
17+00.00	1700.00	100.00	126.64	0.06	472	0	0	3,421	0	3,421
18+00.00	1800.00	100.00	122.00	0.00	460	0	0	3,881	0	3,881
19+00.00	1900.00	100.00	116.83	0.00	442	0	0	4,323	0	4,323
20+00.00	2000.00	100.00	109.60	0.00	419	0	0	4,742	0	4,742
21+00.00	2100.00	100.00	108.03	0.05	403	0	0	5,145	0	5,145
22+00.00	2200.00	100.00	108.60	0.00	401	0	0	5,546	0	5,546
22+44.11	2244.11	44.11	106.33	0.00	176	0	0	5,722	0	5,722
22+82.05	2282.05	37.94	317.38	0.00	298	0	0	6,020	0	6,020
23+00.00	2300.00	17.95	288.05	0.00	201	0	0	6,221	0	6,221
23+14.59	2314.59	14.59	297.25	0.00	158	0	0	6,379	0	6,379
23+52.27	2352.27	37.68	91.05	0.00	271	0	0	6,650	0	6,650
24+00.00	2400.00	47.73	106.99	0.00	175	0	0	6,825	0	6,825

STAGE 1 NB STH 113 DEBS TO BRIDGE

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
24+00.00	2400.00	0.00	106.99	0.00	0	0	0	0	0	0
25+00.00	2500.00	100.00	99.71	0.00	383	0	0	0	0	383
26+00.00	2600.00	100.00	108.84	0.00	386	0	0	386	0	769
27+00.00	2700.00	100.00	110.60	0.01	406	0	0	792	0	1,175
28+00.00	2800.00	100.00	107.87	0.01	405	0	0	1,197	0	1,580
28+84.96	2884.96	84.96	100.01	0.02	327	0	0	1,524	0	1,907
29+00.00	2900.00	15.04	98.77	0.04	55	0	0	1,579	0	1,962
30+00.00	3000.00	100.00	101.28	0.00	370	0	0	1,949	0	2,332
31+00.00	3100.00	100.00	101.14	0.04	375	0	0	2,324	0	2,707
32+00.00	3200.00	100.00	98.47	0.05	370	0	0	2,694	0	3,077
33+00.00	3300.00	100.00	103.00	0.03	373	0	0	3,067	0	3,450
34+00.00	3400.00	100.00	113.77	0.00	401	0	0	3,468	0	3,851
34+73.67	3473.67	73.67	121.62	0.00	321	0	0	3,789	0	4,172
35+00.00	3500.00	26.33	125.63	0.00	121	0	0	3,910	0	4,293
36+00.00	3600.00	100.00	105.25	0.00	428	0	0	4,338	0	4,721
37+00.00	3700.00	100.00	103.81	0.02	387	0	0	4,725	0	5,108
37+46.30	3746.30	46.30	109.30	0.03	183	0	0	4,908	0	5,291
38+00.00	3800.00	53.70	110.18	0.00	218	0	0	5,126	0	5,509
39+00.00	3900.00	100.00	108.50	0.01	405	0	0	5,531	0	5,914
40+00.00	4000.00	100.00	112.76	0.06	410	0	0	5,941	0	6,324
41+00.00	4100.00	100.00	155.55	0.00	497	0	0	6,438	0	6,821
42+00.00	4200.00	100.00	112.94	0.00	497	0	0	6,935	0	7,318
43+00.00	4300.00	100.00	128.20	0.00	447	0	0	7,382	0	7,765
44+00.00	4400.00	100.00	118.68	0.01	457	0	0	7,839	0	8,222
45+00.00	4500.00	100.00	110.65	0.02	425	0	0	8,264	0	8,647
45+38.13	4538.13	38.13	114.01	0.04	159	0	0	8,423	0	8,806
45+86..7	4586.37	48.24	115.73	11.09	205	0	10	8,628	13	8,999
46+00.00	4600.00	13.63	115.83	12.31	58	0	6	8,686	20	9,049
47+00.00	4700.00	100.00	119.22	47.36	435	0	111	9,121	159	9,345
47+04.81	4704.81	4.81	119.70	47.95	21	0	8	9,142	169	9,356
47+29.81	4729.81	25.00	120.45	51.52	111	0	46	9,253	226	9,410
47+54.81	4754.81	25.00	115.33	52.76	109	0	48	9,362	286	9,459
47+80.35	4780.35	25.54	115.61	32.47	109	0	40	9,471	336	9,518
48+00.00	4800.00	19.65	114.09	16.38	84	0	18	9,555	359	9,579
48+05.35	4805.35	5.35	113.76	12.10	23	0	3	9,578	363	9,599
48+30.35	4830.35	25.00	106.21	8.85	102	0	10	9,680	375	9,688
49+00.00	4900.00	69.65	106.97	9.92	275	0	24	9,955	405	9,933
49+59.83	4959.83	59.83	120.34	0.12	252	0	11	10,207	419	10,171

STAGE 1 NB STH 113 BRIDGE TO CTH M

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.25	NOTE 8
50+66.97	5066.97	0.00	123.65	34.55	0	0	0	0	0	0
51+00.00	5100.00	33.03	123.50	3.61	151	0	23	151	29	122
51+21.88	5121.88	21.88	138.83	0.49	106	0	2	257	31	226
51+46.86	5146.86	24.98	148.38	2.78	133	0	2	390	34	356
51+71.84	5171.84	24.98	155.92	6.31	141	0	4	531	39	492
52+00.00	5200.00	28.16	152.80	4.00	161	0	5	692	45	647
53+00.00	5300.00	100.00	119.24	3.43	504	0	14	1,196	63	1,134
54+00.00	5400.00	100.00	99.21	0.15	405	0	7	1,601	71	1,530
55+00.00	5500.00	100.00	104.14	0.08	377	0	0	1,978	71	1,907
56+00.00	5600.00	100.00	132.12	0.00	438	0	0	2,416	71	2,345
57+00.00	5700.00	100.00	151.71	0.00	526	0	0	2,942	71	2,871
58+00.00	5800.00	100.00	159.43	0.05	576	0	0	3,518	71	3,447
59+00.00	5900.00	100.00	158.73	0.00	589	0	0	4,107	71	4,036
60+00.00	6000.00	100.00	167.41	0.02	604	0	0	4,711	71	4,640
61+00.00	6100.00	100.00	171.61	0.00	628	0	0	5,339	71	5,268
62+00.00	6200.00	100.00	187.76	0.00	666	0	0	6,005	71	5,934
62+37.96	6237.96	37.96	173.64	0.00	254	0	0	6,259	71	6,188
63+00.00	6300.00	62.04	211.20	6.77	442	0	8	6,701	81	6,620
64+00.00	6400.00	100.00	165.00	0.00	697	0	13	7,398	98	7,301
64+58.29	6458.29	58.29	106.88	0.10	293	0	0	7,691	98	7,594
65+00.00	6500.00	41.71	97.83	0.00	158	0	0	7,849	98	7,752

STAGE 1 NB STH 113 CTH M TO RIVER RD

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
65+00.00	6500.00	0.00	97.83	0.00	0	0	0	0	0	0
66+00.00	6600.00	100.00	79.98	0.20	329	0	0	0	0	329
67+00.00	6700.00	100.00	98.00	0.00	330	0	0	330	0	659
68+00.00	6800.00	100.00	100.01	0.00	367	0	0	697	0	1,026
69+00.00	6900.00	100.00	102.36	0.00	375	0	0	1,072	0	1,401
70+00.00	7000.00	100.00	100.52	0.00	376	0	0	1,448	0	1,777
71+00.00	7100.00	100.00	99.25	0.00	370	0	0	1,818	0	2,147
72+00.00	7200.00	100.00	106.50	0.00	381	0	0	2,199	0	2,528
73+00.00	7300.00	100.00	121.37	0.15	422	0	0	2,621	0	2,950
73+34.66	7334.66	34.66	120.75	0.88	155	0	1	2,776	1	3,104
74+00.00	7400.00	65.34	113.78	0.04	284	0	1	3,060	3	3,387
75+00.00	7500.00	100.00	111.07	0.09	416	0	0	3,476	3	3,803
76+00.00	7600.00	100.00	110.23	5.88	410	0	11	3,886	16	4,199
77+00.00	7700.00	100.00	124.27	9.62	434	0	29	4,320	53	4,597
78+00.00	7800.00	100.00	130.68	5.15	472	0	27	4,792	86	5,035
79+00.00	7900.00	100.00	144.15	0.00	509	0	10	5,301	99	5,531
80+00.00	8000.00	100.00	190.66	0.03	620	0	0	5,921	99	6,151
81+00.00	8100.00	100.00	186.55	0.00	699	0	0	6,620	99	6,850
82+00.00	8200.00	100.00	236.34	0.00	783	0	0	7,403	99	7,633
82+10.10	8210.10	10.10	297.63	0.00	100	0	0	7,503	99	7,733
82+30.25	8230.25	20.15	482.48	0.00	291	0	0	7,794	99	8,024
82+48.39	8248.39	18.14	500.55	0.00	330	0	0	8,124	99	8,354
83+00.00	8300.00	51.61	216.64	0.00	685	0	0	8,809	99	9,039
84+00.00	8400.00	100.00	115.40	0.00	615	0	0	9,424	99	9,654
85+00.00	8500.00	100.00	114.69	0.04	426	0	0	9,850	99	10,080
85+04.28	8504.28	4.28	114.45	0.06	18	0	0	9,868	99	10,098
86+00.00	8600.00	95.72	117.29	0.13	411	0	0	10,279	99	10,509
87+00.00	8700.00	100.00	110.10	0.83	421	0	2	10,700	101	10,928
88+00.00	8800.00	100.00	106.03	6.75	400	0	14	11,100	119	11,310
89+00.00	8900.00	100.00	112.54	1.12	405	0	15	11,505	138	11,697
90+00.00	9000.00	100.00	111.69	0.01	415	0	2	11,920	140	12,109
90+23.11	9023.11	23.11	118.23	0.00	98	0	0	12,018	140	12,207
91+00.00	9100.00	76.89	102.65	0.04	315	0	0	12,333	140	12,522

STAGE 2 SB STH 113 KNUTSON TO DEBS

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
11+89.59	1189.59	0.00	100.57	0.00	0	0	0	0	0	0
12+00.00	1200.00	10.41	99.24	0.02	39	0	0	39	0	39
13+00.00	1300.00	100.00	96.48	0.00	362	0	0	401	0	401
14+00.00	1400.00	100.00	97.56	0.02	359	0	0	760	0	760
15+00.00	1500.00	100.00	97.41	0.01	361	0	0	1,121	0	1,121
16+00.00	1600.00	100.00	97.34	0.01	361	0	0	1,482	0	1,482
17+00.00	1700.00	100.00	104.62	0.00	374	0	0	1,856	0	1,856
18+00.00	1800.00	100.00	102.18	0.01	383	0	0	2,239	0	2,239
19+00.00	1900.00	100.00	119.29	0.00	410	0	0	2,649	0	2,649
20+00.00	2000.00	100.00	101.91	0.01	410	0	0	3,059	0	3,059
21+00.00	2100.00	100.00	103.67	0.03	381	0	0	3,440	0	3,440
22+00.00	2200.00	100.00	102.93	0.02	383	0	0	3,823	0	3,823
23+00.00	2300.00	100.00	149.88	0.00	468	0	0	4,291	0	4,291
24+00.00	2400.00	100.00	139.60	0.00	536	0	0	4,827	0	4,827

STAGE 2 SB STH 113 DEBS TO BRIDGE

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
24+00.00	2400.00	0.00	139.60	0.00	0	0	0	0	0	0
25+00.00	2500.00	100.00	97.54	0.01	439	0	0	439	0	439
26+00.00	2600.00	100.00	89.34	0.00	346	0	0	785	0	785
27+00.00	2700.00	100.00	92.45	0.00	337	0	0	1,122	0	1,122
28+00.00	2800.00	100.00	114.18	0.00	383	0	0	1,505	0	1,505
28+85.19	2885.19	85.19	110.27	0.01	354	0	0	1,859	0	1,859
29+00.00	2900.00	14.81	107.88	0.04	60	0	0	1,919	0	1,919
30+00.00	3000.00	100.00	100.65	0.06	386	0	0	2,305	0	2,305
31+00.00	3100.00	100.00	102.76	0.00	377	0	0	2,682	0	2,682
32+00.00	3200.00	100.00	102.24	0.02	380	0	0	3,062	0	3,062
33+00.00	3300.00	100.00	108.78	0.06	391	0	0	3,453	0	3,453
34+00.00	3400.00	100.00	110.60	0.01	406	0	0	3,859	0	3,859
35+00.00	3500.00	100.00	116.70	0.02	421	0	0	4,280	0	4,280
36+00.00	3600.00	100.00	115.77	0.10	431	0	0	4,711	0	4,711
37+00.00	3700.00	100.00	110.27	0.01	419	0	0	5,130	0	5,130
37+46.44	3746.44	46.44	108.90	0.28	188	0	0	5,318	0	5,318
38+00.00	3800.00	53.56	116.77	0.01	224	0	0	5,542	0	5,542
39+00.00	3900.00	100.00	117.38	0.11	434	0	0	5,976	0	5,976
40+00.00	4000.00	100.00	116.21	0.00	433	0	0	6,409	0	6,409
41+00.00	4100.00	100.00	158.77	0.01	509	0	0	6,918	0	6,918
42+00.00	4200.00	100.00	180.37	0.00	628	0	0	7,546	0	7,546
43+00.00	4300.00	100.00	123.17	0.04	562	0	0	8,108	0	8,108
44+00.00	4400.00	100.00	125.26	0.02	460	0	0	8,568	0	8,568
45+00.00	4500.00	100.00	118.21	0.12	451	0	0	9,019	0	9,019
45+38.48	4538.48	38.48	113.99	0.02	165	0	0	9,184	0	9,184
46+00.00	4600.00	61.52	108.49	0.00	253	0	0	9,437	0	9,437
47+00.00	4700.00	100.00	108.84	0.00	402	0	0	9,839	0	9,839
47+51.48	4751.48	51.48	105.83	5.62	205	0	5	10,044	6	10,038
48+00.00	4800.00	48.52	109.59	20.12	194	0	23	10,238	35	10,203
48+57.50	4857.50	57.50	117.09	41.60	241	0	66	10,479	118	10,362
48+82.44	4882.44	24.94	115.26	30.50	107	0	33	10,586	159	10,427
49+00.00	4900.00	17.56	112.37	19.34	74	0	16	10,660	179	10,481
49+07.43	4907.43	7.43	112.36	23.32	31	0	6	10,691	186	10,505
49+62.44	4962.44	55.01	118.83	11.84	236	0	36	10,927	231	10,696

STAGE 2 SB STH 113 BRIDGE TO CTH M

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.25	NOTE 8
50+67.09	5067.09	0.00	108.90	23.91	0	0	0	0	0	0
51+00.00	5100.00	32.91	101.96	32.23	129	0	34	129	43	87
52+00.00	5200.00	100.00	105.58	23.40	384	0	103	513	171	342
52+83.59	5283.59	83.59	107.35	48.99	330	0	112	843	311	532
53+09.79	5309.79	26.20	106.98	103.92	104	0	74	947	404	543
53+34.85	5334.85	25.06	114.99	85.81	103	0	88	1,050	514	536
54+00.00	5400.00	65.15	113.14	15.32	275	0	122	1,325	666	659
54+53.60	5453.60	53.60	122.28	0.00	234	0	15	1,559	685	874
55+00.00	5500.00	46.40	117.88	0.02	206	0	0	1,765	685	1,080
56+00.00	5600.00	100.00	134.74	0.00	468	0	0	2,233	685	1,548
57+00.00	5700.00	100.00	133.33	0.00	496	0	0	2,729	685	2,044
58+00.00	5800.00	100.00	127.42	0.01	483	0	0	3,212	685	2,527
59+00.00	5900.00	100.00	136.19	0.00	488	0	0	3,700	685	3,015
60+00.00	6000.00	100.00	166.94	0.01	561	0	0	4,261	685	3,576
61+00.00	6100.00	100.00	181.01	0.00	644	0	0	4,905	685	4,220
61+86.50	6186.50	86.50	226.77	0.00	653	0	0	5,558	685	4,873
62+00.00	6200.00	13.50	110.31	0.00	84	0	0	5,642	685	4,957
62+60.32	6260.32	60.32	112.56	0.00	249	0	0	5,891	685	5,206
63+00.00	6300.00	39.68	147.64	0.00	191	0	0	6,082	685	5,397
63+32.57	6332.57	32.57	159.43	0.00	185	0	0	6,267	685	5,582
63+36.75	6336.75	4.18	147.91	0.00	24	0	0	6,291	685	5,606
63+62.97	6362.97	26.22	173.39	0.00	156	0	0	6,447	685	5,762
63+72.42	6372.42	9.45	127.79	0.00	53	0	0	6,500	685	5,815
63+87.49	6387.49	15.07	349.51	0.00	133	0	0	6,633	685	5,948
64+00.00	6400.00	12.51	356.19	0.00	163	0	0	6,796	685	6,111
64+13.98	6413.98	13.98	353.74	0.00	184	0	0	6,980	685	6,295
64+80.99	6480.99	67.01	93.57	0.00	555	0	0	7,535	685	6,850
65+00.00	6500.00	19.01	149.06	0.00	85	0	0	7,620	685	6,935

STAGE 2 SB STH 113 CTH M TO RIVER RD

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
65+00.00	6500.00	0.00	149.06	0.00	0	0	0	0	0	0
66+00.00	6600.00	100.00	110.87	0.00	481	0	0	481	0	481
67+00.00	6700.00	100.00	117.61	0.00	423	0	0	904	0	904
68+00.00	6800.00	100.00	117.19	0.08	435	0	0	1,339	0	1,339
69+00.00	6900.00	100.00	111.24	0.00	423	0	0	1,762	0	1,762
70+00.00	7000.00	100.00	113.27	0.07	416	0	0	2,178	0	2,178
71+00.00	7100.00	100.00	109.98	0.09	413	0	0	2,591	0	2,591
72+00.00	7200.00	100.00	111.73	0.03	411	0	0	3,002	0	3,002
73+00.00	7300.00	100.00	104.36	0.39	400	0	1	3,402	1	3,401
73+56.84	7356.84	56.84	106.18	0.03	222	0	0	3,624	1	3,623
74+00.00	7400.00	43.16	104.04	0.03	168	0	0	3,792	1	3,791
75+00.00	7500.00	100.00	107.78	0.00	392	0	0	4,184	1	4,183
76+00.00	7600.00	100.00	108.91	0.02	401	0	0	4,585	1	4,584
77+00.00	7700.00	100.00	109.85	0.00	405	0	0	4,990	1	4,989
78+00.00	7800.00	100.00	119.26	0.86	424	0	2	5,414	4	5,410
79+00.00	7900.00	100.00	146.25	0.02	492	0	2	5,906	6	5,900
80+00.00	8000.00	100.00	156.10	0.00	560	0	0	6,466	6	6,460
81+00.00	8100.00	100.00	150.71	0.26	568	0	0	7,034	6	7,028
82+00.00	8200.00	100.00	141.23	0.00	541	0	0	7,575	6	7,569
82+81.80	8281.80	81.80	402.45	0.00	824	0	0	8,399	6	8,393
83+00.00	8300.00	18.20	402.90	0.00	271	0	0	8,670	6	8,664
83+24.62	8324.62	24.62	402.09	0.00	367	0	0	9,037	6	9,031
84+00.00	8400.00	75.38	173.62	0.09	804	0	0	9,841	6	9,835
85+00.00	8500.00	100.00	172.75	0.13	641	0	0	10,482	6	10,476
85+26.22	8526.22	26.22	172.96	3.30	168	0	2	10,650	9	10,641
86+00.00	8600.00	73.78	170.76	0.28	470	0	5	11,120	15	11,105
87+00.00	8700.00	100.00	140.19	2.60	576	0	5	11,696	21	11,675
88+00.00	8800.00	100.00	132.94	14.87	506	0	32	12,202	61	12,141
89+00.00	8900.00	100.00	125.74	12.74	479	0	51	12,681	125	12,556
89+71.39	8971.39	71.39	113.16	8.31	316	0	28	12,997	160	12,837
90+00.00	9000.00	28.61	111.13	3.59	119	0	6	13,116	168	12,949
91+00.00	9100.00	100.00	109.32	0.00	408	0	7	13,524	176	13,348

CLOSURE NB STH 113 RIVER RD TO TWL

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
91+00.00	9100.00	0.00	102.65	0.04	0	0	0	0	0	0
92+00.00	9200.00	100.00	103.45	0.16	382	0	0	0	0	382
93+00.00	9300.00	100.00	103.13	0.23	383	0	1	383	1	764
94+00.00	9400.00	100.00	103.13	0.04	382	0	0	765	1	1,146
95+00.00	9500.00	100.00	134.56	0.00	440	0	0	1,205	1	1,586
96+00.00	9600.00	100.00	115.06	0.71	462	0	1	1,667	3	2,047
96+69.18	9669.18	69.18	113.89	0.00	293	0	1	1,960	4	2,338
97+00.00	9700.00	30.82	101.31	0.74	123	0	0	2,083	4	2,461
97+58.91	9758.91	58.91	201.41	0.03	330	0	1	2,413	5	2,790
98+00.00	9800.00	41.09	179.59	0.01	290	0	0	2,703	5	3,080
99+00.00	9900.00	100.00	172.15	0.00	651	0	0	3,354	5	3,731
100+00.00	10000.00	100.00	150.56	0.00	598	0	0	3,952	5	4,329
101+00.00	10100.00	100.00	129.86	0.01	519	0	0	4,471	5	4,848
102+00.00	10200.00	100.00	123.53	0.00	469	0	0	4,940	5	5,317
103+00.00	10300.00	100.00	125.76	0.00	462	0	0	5,402	5	5,779
104+00.00	10400.00	100.00	132.53	0.00	478	0	0	5,880	5	6,257
105+00.00	10500.00	100.00	133.80	0.01	493	0	0	6,373	5	6,750
105+28.29	10528.29	28.29	127.85	0.00	137	0	0	6,510	5	6,887

CLOSURE SB STH 113 RIVER RD TO TWL

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
91+00.00	9100.00	0.00	109.32	0.00	0	0	0	0	0	0
92+00.00	9200.00	100.00	107.55	0.02	402	0	0	402	0	402
93+00.00	9300.00	100.00	104.71	0.02	393	0	0	795	0	795
94+00.00	9400.00	100.00	100.18	0.00	379	0	0	1,174	0	1,174
95+00.00	9500.00	100.00	110.53	0.00	390	0	0	1,564	0	1,564
96+00.00	9600.00	100.00	104.61	0.00	398	0	0	1,962	0	1,962
96+41.59	9641.59	41.59	107.39	0.00	163	0	0	2,125	0	2,125
96+80.78	9680.78	39.19	195.52	0.00	220	0	0	2,345	0	2,345
97+00.00	9700.00	19.22	417.37	0.00	218	0	0	2,563	0	2,563
97+17.15	9717.15	17.15	429.61	0.00	269	0	0	2,832	0	2,832
97+78.43	9778.43	108.34	24.62	0.03	911	0	0	3,743	0	3,743

CLOSURE STH 113 TWL SOUTH SEGMENT

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.25	NOTE 8
105+50.00	10550.00	0.00	127.45	0.00	0	0	0	0	0	0
106+00.00	10600.00	50.00	111.99	0.00	222	0	0	222	0	222
107+00.00	10700.00	100.00	118.07	0.13	426	0	0	648	0	648
108+00.00	10800.00	100.00	116.92	0.00	435	0	0	1,083	0	1,083
109+00.00	10900.00	100.00	117.45	0.00	434	0	0	1,517	0	1,517
110+00.00	11000.00	100.00	114.79	0.00	430	0	0	1,947	0	1,947
111+00.00	11100.00	100.00	112.88	0.00	422	0	0	2,369	0	2,369
112+00.00	11200.00	100.00	112.55	0.03	417	0	0	2,786	0	2,786
113+00.00	11300.00	100.00	112.91	0.08	418	0	0	3,204	0	3,204
114+00.00	11400.00	100.00	113.80	0.16	420	0	0	3,624	0	3,624
115+00.00	11500.00	100.00	116.11	0.13	426	0	1	4,050	1	4,049
116+00.00	11600.00	100.00	112.50	0.03	423	0	0	4,473	1	4,472
117+00.00	11700.00	100.00	125.00	0.00	440	0	0	4,913	1	4,912
118+00.00	11800.00	100.00	120.65	0.00	455	0	0	5,368	1	5,367
119+00.00	11900.00	100.00	116.33	0.03	439	0	0	5,807	1	5,806
120+00.00	12000.00	100.00	121.51	0.00	440	0	0	6,247	1	6,246
121+00.00	12100.00	100.00	119.33	0.01	446	0	0	6,693	1	6,692
122+00.00	12200.00	100.00	120.81	0.00	445	0	0	7,138	1	7,137
123+00.00	12300.00	100.00	123.64	0.00	453	0	0	7,591	1	7,590
124+00.00	12400.00	100.00	118.54	0.08	448	0	0	8,039	1	8,038
125+00.00	12500.00	100.00	114.52	0.11	432	0	0	8,471	1	8,470
126+00.00	12600.00	100.00	117.82	0.06	430	0	0	8,901	1	8,900
127+00.00	12700.00	100.00	120.62	0.02	442	0	0	9,343	1	9,342
128+00.00	12800.00	100.00	113.70	0.17	434	0	0	9,777	1	9,776
129+00.00	12900.00	100.00	116.49	0.15	426	0	1	10,203	3	10,201
130+00.00	13000.00	100.00	113.69	0.51	426	0	1	10,629	4	10,625
131+00.00	13100.00	100.00	117.14	0.00	427	0	1	11,056	5	11,051
132+00.00	13200.00	100.00	109.93	0.08	420	0	0	11,476	5	11,471
133+00.00	13300.00	100.00	115.04	0.01	417	0	0	11,893	5	11,888
134+00.00	13400.00	100.00	113.31	0.03	423	0	0	12,316	5	12,311
134+64.91	13464.91	64.91	115.36	0.01	275	0	0	12,591	5	12,586
135+00.00	13500.00	35.09	118.19	0.03	152	0	0	12,743	5	12,738
136+00.00	13600.00	100.00	112.63	0.17	427	0	0	13,170	5	13,165
137+00.00	13700.00	100.00	114.17	0.16	420	0	1	13,590	6	13,584
138+00.00	13800.00	100.00	112.29	0.00	419	0	0	14,009	6	14,003
139+00.00	13900.00	100.00	97.33	0.02	388	0	0	14,397	6	14,391
140+00.00	14000.00	100.00	110.51	0.00	385	0	0	14,782	6	14,776
141+00.00	14100.00	100.00	115.97	0.00	419	0	0	15,201	6	15,195
142+00.00	14200.00	100.00	112.32	0.04	423	0	0	15,624	6	15,618

CLOSURE STH 113 TWL NORTH SEGMENT

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
								1.00	1.25	
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
162+00.00	16200.00	0.00	110.48	0.10	0	0	0	0	0	0
163+00.00	16300.00	100.00	107.13	0.07	403	0	0	403	0	403
164+00.00	16400.00	100.00	109.83	0.06	402	0	0	805	0	805
165+00.00	16500.00	100.00	116.08	0.00	418	0	0	1,223	0	1,223
166+00.00	16600.00	100.00	111.33	0.00	421	0	0	1,644	0	1,644
167+00.00	16700.00	100.00	111.11	0.00	412	0	0	2,056	0	2,056
168+00.00	16800.00	100.00	119.77	0.00	428	0	0	2,484	0	2,484
169+00.00	16900.00	100.00	126.91	0.04	457	0	0	2,941	0	2,941
170+00.00	17000.00	100.00	110.59	0.10	440	0	0	3,381	0	3,381
171+00.00	17100.00	100.00	112.71	0.03	414	0	0	3,795	0	3,795
172+00.00	17200.00	100.00	118.46	0.00	428	0	0	4,223	0	4,223
173+00.00	17300.00	100.00	118.41	0.00	439	0	0	4,662	0	4,662
174+00.00	17400.00	100.00	119.25	0.00	440	0	0	5,102	0	5,102
175+00.00	17500.00	100.00	121.52	0.00	446	0	0	5,548	0	5,548
176+00.00	17600.00	100.00	116.14	0.24	440	0	0	5,988	0	5,988
177+00.00	17700.00	100.00	121.16	0.18	439	0	1	6,427	1	6,426
178+00.00	17800.00	100.00	124.40	0.00	455	0	0	6,882	1	6,881
179+00.00	17900.00	100.00	143.47	0.00	496	0	0	7,378	1	7,377
180+00.00	18000.00	100.00	144.35	0.00	533	0	0	7,911	1	7,910
181+00.00	18100.00	100.00	156.87	0.25	558	0	0	8,469	1	8,468
181+23.15	18123.15	23.15	160.02	0.22	136	0	0	8,605	1	8,604
181+73.00	18173.00	49.85	116.18	0.18	255	0	0	8,860	1	8,859
181+76.60	18176.60	3.60	109.18	0.16	15	0	0	8,875	1	8,874
182+00.00	18200.00	23.40	116.80	0.05	98	0	0	8,973	1	8,972
183+00.00	18300.00	100.00	138.00	0.00	472	0	0	9,445	1	9,444
184+00.00	18400.00	100.00	110.78	0.00	461	0	0	9,906	1	9,905
185+00.00	18500.00	100.00	110.16	0.12	409	0	0	10,315	1	10,314
186+00.00	18600.00	100.00	109.79	0.00	407	0	0	10,722	1	10,721
186+42.03	18642.03	42.03	109.34	0.48	171	0	0	10,893	1	10,892
187+00.00	18700.00	57.97	111.56	0.00	237	0	1	11,130	3	11,128
188+00.00	18800.00	100.00	108.57	0.04	408	0	0	11,538	3	11,536
189+00.00	18900.00	100.00	103.65	0.12	393	0	0	11,931	3	11,929
189+42.63	18942.63	42.63	106.18	0.23	166	0	0	12,097	3	12,095

CLOSURE STH 113 SOUTHBOUND CONNECTION

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
181+76.72	18176.72	0.00	55.91	0.08	0	0	0	0	0	0
182+00.00	18200.00	23.28	63.37	0.11	51	0	0	51	0	51
183+00.00	18300.00	100.00	74.18	0.22	255	0	1	306	1	305
184+00.00	18400.00	100.00	96.16	0.27	315	0	1	621	3	619
185+00.00	18500.00	100.00	95.87	0.24	356	0	1	977	4	973
186+00.00	18600.00	100.00	103.51	0.00	369	0	0	1,346	4	1,342
186+42.58	18642.58	42.58	105.97	0.04	165	0	0	1,511	4	1,507
187+00.00	18700.00	57.42	107.91	0.00	227	0	0	1,738	4	1,734
188+00.00	18800.00	100.00	106.19	0.00	396	0	0	2,134	4	2,130
189+00.00	18900.00	100.00	108.69	0.00	398	0	0	2,532	4	2,528
189+45.10	18945.10	45.10	111.98	0.00	184	0	0	2,716	4	2,712

RAB NB 113 SOUTH LEG

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
400+00.00	40000.00	0.00	112.52	0.00	0	0	0	0	0	0
400+50.00	40050.00	50.00	110.50	4.04	206	0	4	206	5	201
401+00.00	40100.00	50.00	109.93	5.95	204	0	9	410	16	394
401+50.00	40150.00	50.00	113.08	4.05	206	0	9	616	28	589
402+00.00	40200.00	50.00	121.29	4.36	217	0	8	833	38	796
402+50.00	40250.00	50.00	128.72	6.14	231	0	10	1,064	50	1,014
403+00.00	40300.00	50.00	152.14	7.42	260	0	13	1,324	66	1,258
403+50.00	40350.00	50.00	229.69	8.89	354	0	15	1,678	85	1,593
404+00.00	40400.00	50.00	299.19	8.25	490	0	16	2,168	105	2,063
404+50.00	40450.00	50.00	370.25	7.12	620	0	14	2,788	123	2,666
405+00.00	40500.00	50.00	427.23	4.39	738	0	11	3,526	136	3,390
405+28.39	40528.38	28.38	450.64	3.15	461	0	4	3,987	141	3,846
405+33.32	40533.32	4.94	89.58	0.00	49	0	0	3,987	141	3,895
405+50.00	40550.00	50.00	90.25	0.00	83	0	0	4,070	141	3,978
406+00.00	40600.00	50.00	94.33	0.00	171	0	0	4,241	141	4,149
406+50.00	40650.00	50.00	101.25	0.00	181	0	0	4,422	141	4,330
407+00.00	40700.00	50.00	113.81	0.00	199	0	0	4,621	141	4,529
407+50.00	40750.00	50.00	135.67	0.00	231	0	0	4,852	141	4,760
408+00.00	40800.00	50.00	141.63	0.00	257	0	0	5,109	141	5,017
408+50.00	40850.00	50.00	122.90	0.00	245	0	0	5,354	141	5,262
409+00.00	40900.00	50.00	125.38	0.00	230	0	0	5,584	141	5,492
409+25.00	40925.00	25.00	148.26	0.21	127	0	0	5,711	141	5,619
409+45.00	40945.00	20.00	98.87	1.52	92	0	1	5,803	143	5,710

RAB NB 113 NORTH LEG

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
410+89.46	41089.46	0.00	95.15	38.97	0	0	0	0	0	0
411+00.00	41100.00	10.54	98.49	42.54	38	0	16	38	20	18
411+50.00	41150.00	50.00	138.45	27.75	219	0	65	257	101	156
412+00.00	41200.00	50.00	171.89	0.00	287	0	26	544	134	410
412+50.00	41250.00	50.00	220.17	0.02	363	0	0	907	134	773
413+00.00	41300.00	50.00	228.23	0.31	415	0	0	1,322	134	1,188
413+50.00	41350.00	50.00	209.87	0.23	406	0	0	1,728	134	1,594
414+00.00	41400.00	50.00	179.07	0.00	360	0	0	2,088	134	1,954
414+50.00	41450.00	50.00	147.85	0.00	303	0	0	2,391	134	2,257
415+00.00	41500.00	50.00	120.78	0.00	249	0	0	2,640	134	2,506
415+09.36	41509.36	9.36	120.78	0.00	46	0	12	2,686	149	2,537
415+50.00	41550.00	50.00	135.35	64.43	260	0	40	2,900	184	2,716
416+00.00	41600.00	50.00	131.22	52.86	247	0	109	3,147	320	2,827
416+50.00	41650.00	50.00	124.14	37.67	236	0	84	3,383	425	2,958
417+00.00	41700.00	50.00	125.04	30.48	231	0	63	3,614	504	3,110
417+50.00	41750.00	50.00	125.01	18.36	232	0	45	3,846	560	3,286
418+00.00	41800.00	50.00	120.37	10.66	227	0	27	4,073	594	3,479
418+50.00	41850.00	50.00	116.20	6.20	219	0	16	4,292	614	3,678
419+00.00	41900.00	50.00	113.44	3.32	213	0	9	4,505	625	3,880
419+50.00	41950.00	50.00	110.92	0.04	208	0	3	4,713	629	4,084
420+00.00	42000.00	50.00	110.24	0.09	205	0	0	4,918	629	4,289
420+11.42	42011.42	11.42	110.51	0.09	47	0	0	4,965	629	4,336

RAB SB 113 SOUTH LEG

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
405+31.30	40531.30	0.00	358.61	3.14	0	0	0	0	0	0
405+50.00	40550.00	18.70	385.37	2.59	258	0	2	258	3	256
406+00.00	40600.00	50.00	399.35	1.33	727	0	4	985	8	978
406+50.00	40650.00	50.00	388.82	0.33	730	0	2	1,715	10	1,705
407+00.00	40700.00	50.00	383.05	0.00	715	0	0	2,430	10	2,420
407+50.00	40750.00	50.00	383.51	0.00	710	0	0	3,140	10	3,130
408+00.00	40800.00	50.00	367.29	0.00	695	0	0	3,835	10	3,825
408+50.00	40850.00	50.00	445.65	0.00	753	0	0	4,588	10	4,578
409+00.00	40900.00	50.00	348.87	0.00	736	0	0	5,324	10	5,314
409+50.00	40950.00	50.00	181.00	0.00	565	0	0	5,889	10	5,879

RAB SB 113 NORTH LEG

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
411+00.00	41100.00	0.00	49.80	71.74	0	0	0	0	0	0
411+50.00	41150.00	50.00	115.75	41.98	153	0	105	153	131	22
412+00.00	41200.00	50.00	111.45	28.59	210	0	65	363	213	151
412+50.00	41250.00	50.00	107.80	7.27	203	0	33	566	254	312
413+00.00	41300.00	50.00	83.70	4.52	177	0	11	743	268	476
413+50.00	41350.00	50.00	57.53	90.56	131	0	88	874	378	497
414+00.00	41400.00	50.00	42.24	49.24	92	0	129	966	539	427
414+50.00	41450.00	50.00	31.70	58.82	68	0	100	1,034	664	370
415+00.00	41500.00	50.00	29.55	66.20	57	0	116	1,091	809	282
415+10.53	41510.53	10.53	29.80	65.85	12	0	26	1,103	841	262

RAB EB ARBORETUM DR

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
200+00.00	20000.00	0.00	105.48	0.68	0	0	0	0	0	0
200+50.00	20050.00	50.00	90.08	15.15	181	0	15	181	19	162
201+00.00	20100.00	50.00	60.94	73.21	140	0	82	321	121	200
201+34.83	20134.83	34.83	34.46	179.04	62	0	163	383	325	58
201+50.00	20150.00	15.17	30.07	45.82	18	0	63	401	404	-3
201+90.74	20190.74	40.74	44.47	44.78	56	0	68	457	489	-32
202+00.00	20200.00	9.26	31.83	30.65	13	0	13	470	505	-35

RAB WB ARBORETUM DR

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
201+45	20145.00	0.00	0.46	185.78	0	0	0	0	0	0
201+50.00	20150.00	10.42	0.26	247.48	0	0	101	0	126	-126
202+00.00	20200.00	50.00	0.00	176.60	0	0	393	0	618	-618
202+18.20	20218.20	18.20	0.00	149.49	0	0	115	0	761	-761

RAB EB BONG RD

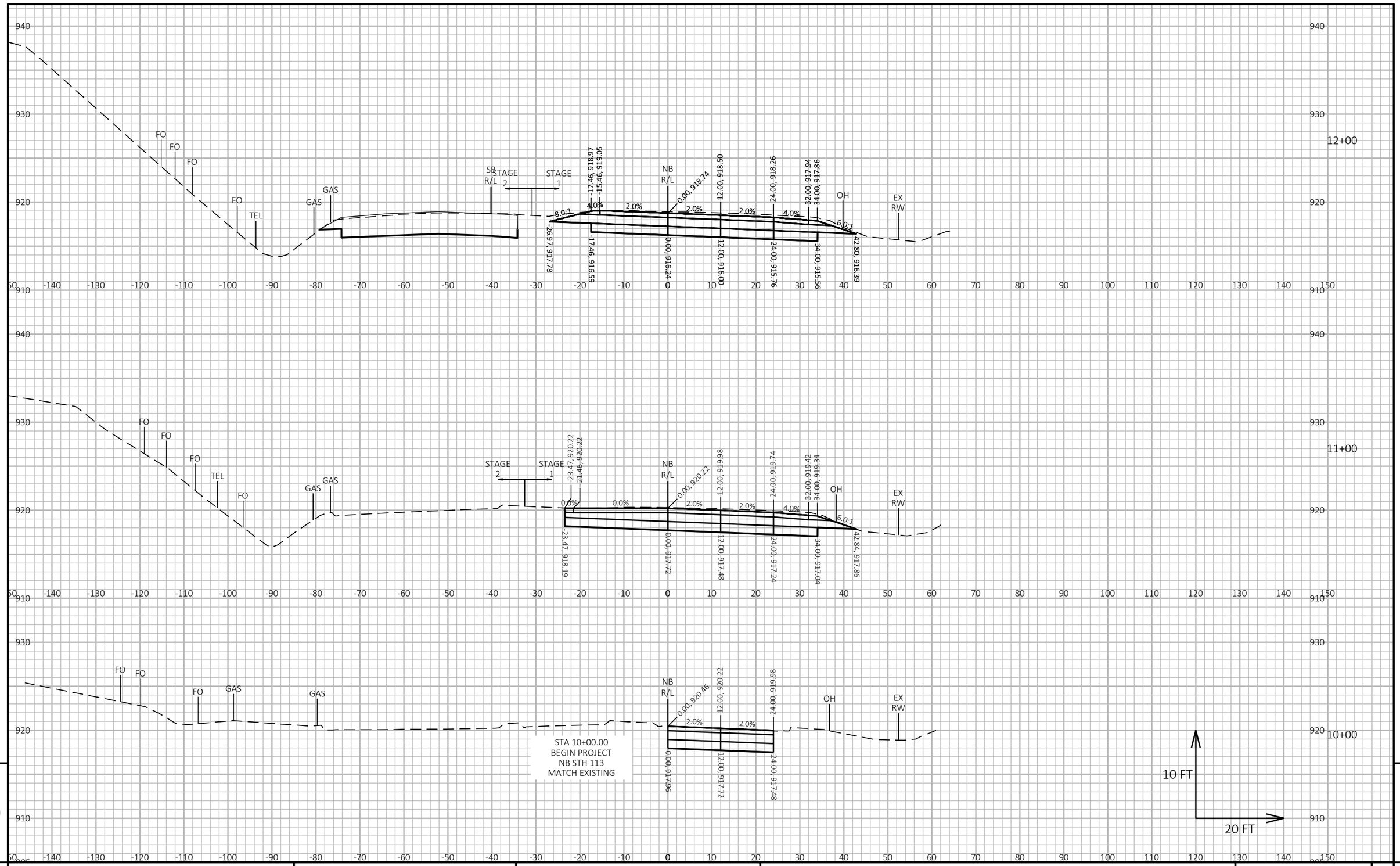
STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
300+00.00	30000.00	0.00	38.82	39.89	0	0	0	0	0	0
300+25.00	30025.00	25.00	102.42	17.60	65	0	27	65	34	31
300+50.00	30050.00	25.00	104.88	4.48	105	0	10	170	46	124
301+00.00	30100.00	50.00	79.94	1.44	189	0	5	359	53	307
301+50.00	30150.00	50.00	56.60	5.54	126	0	6	485	60	425
301+86.33	30186.33	36.33	54.88	7.04	75	0	8	560	70	490
302+00.00	30200.00	13.67	77.10	9.42	42	0	4	602	75	527
302+50.00	30250.00	50.00	79.24	12.25	177	0	20	779	100	679
303+00.00	30300.00	50.00	88.42	10.06	155	0	21	934	126	808
303+14.57	30314.57	14.57	86.43	7.26	53	0	5	987	133	855
303+50.00	30350.00	35.43	79.32	22.88	123	0	20	1,110	158	953
304+00.00	30400.00	50.00	104.46	0.06	170	0	21	1,280	184	1,096
304+50.00	30450.00	50.00	105.39	0.00	194	0	0	1,474	184	1,290
304+79.50	30479.50	29.50	85.54	0.00	104	0	0	1,578	184	1,394

RAB WB BONG RD

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
300+00.00	30000.00	0.00	66.97	30.89	0	0	0	0	0	0
300+50.00	30050.00	50.00	123.55	29.81	210	0	56	210	70	140
301+00.00	30100.00	50.00	62.67	7.64	172	0	35	382	114	268
301+50.00	30150.00	50.00	35.00	6.52	90	0	13	472	130	342
301+77.00	30177.00	27.00	22.78	5.34	29	0	6	501	138	364

ROUNDABOUT

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
10+00.00	1000.00	0.00	38.21	107.64	0	0	0	0	0	0
10+25.00	1025.00	25.00	74.72	96.67	52	0	95	52	119	-67
10+56.23	1056.23	31.23	121.55	101.63	114	0	115	166	263	-97
10+75.00	1075.00	18.77	158.73	82.61	97	0	64	263	343	-80
11+00.00	1100.00	25.00	112.04	81.41	125	0	76	388	438	-50
11+25.00	1125.00	25.00	151.66	79.52	122	0	75	510	531	-21
11+50.00	1150.00	25.00	135.90	126.69	133	0	95	643	650	-7
11+75.00	1175.00	25.00	102.02	82.80	110	0	97	753	771	-18
12+00.00	1200.00	25.00	133.50	87.12	109	0	79	862	870	-8
12+30.01	1230.01	30.01	100.31	116.97	130	0	113	992	1,011	-19
12+50.00	1250.00	19.99	135.09	88.60	87	0	76	1,079	1,106	-27
12+75.00	1275.00	25.00	151.30	94.94	133	0	85	1,212	1,213	-1
13+00.00	1300.00	25.00	92.63	102.67	113	0	91	1,325	1,326	-1
13+25.00	1325.00	25.00	34.55	247.28	86	0	162	1,411	1,529	-118
13+45.10	1345.10	45.10	38.21	107.64	61	0	74	1,472	1,621	-149



9

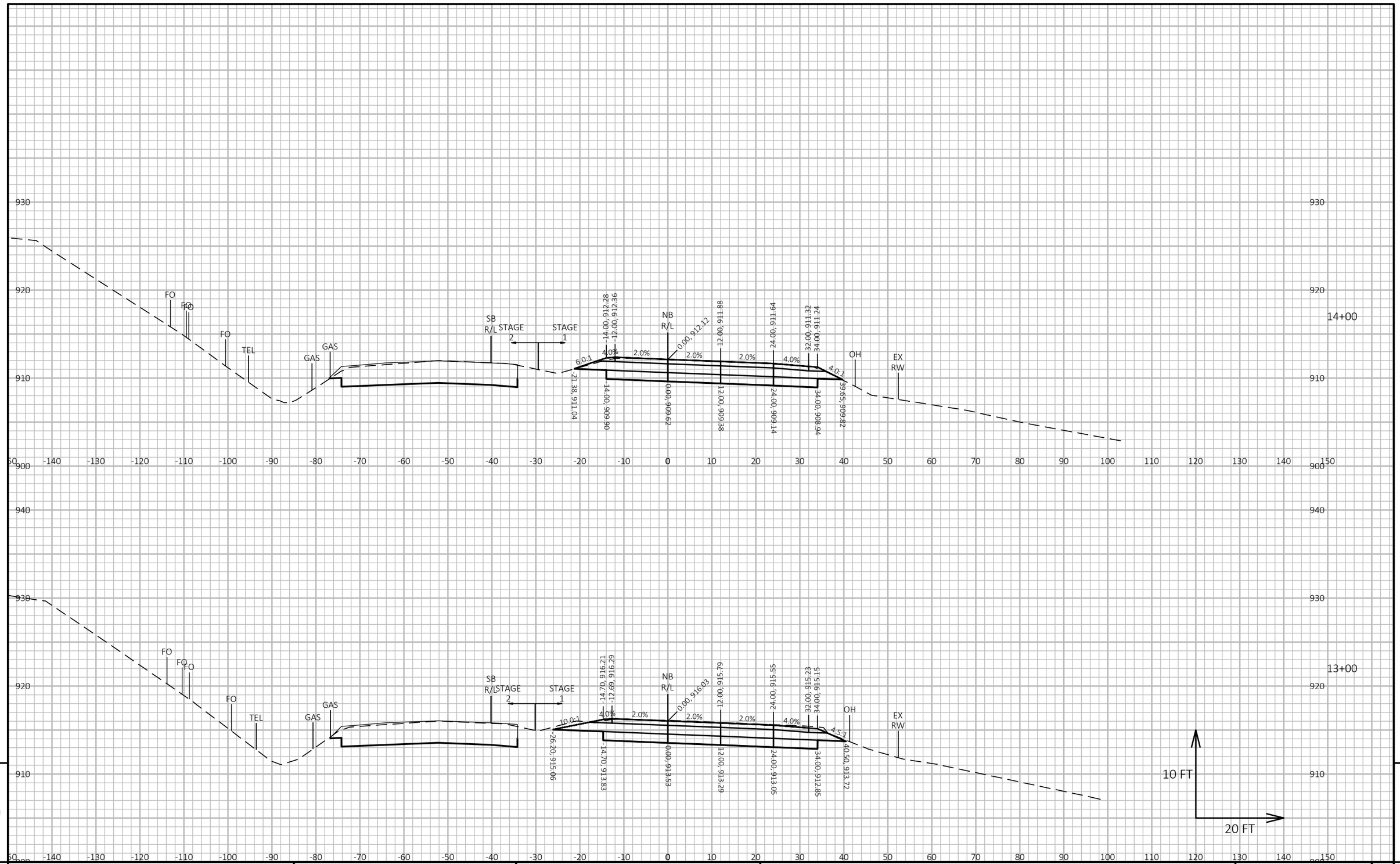
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 433	E

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LAYOUT NAME - NB 1

PLOT DATE : 10/25/2022 5:11 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

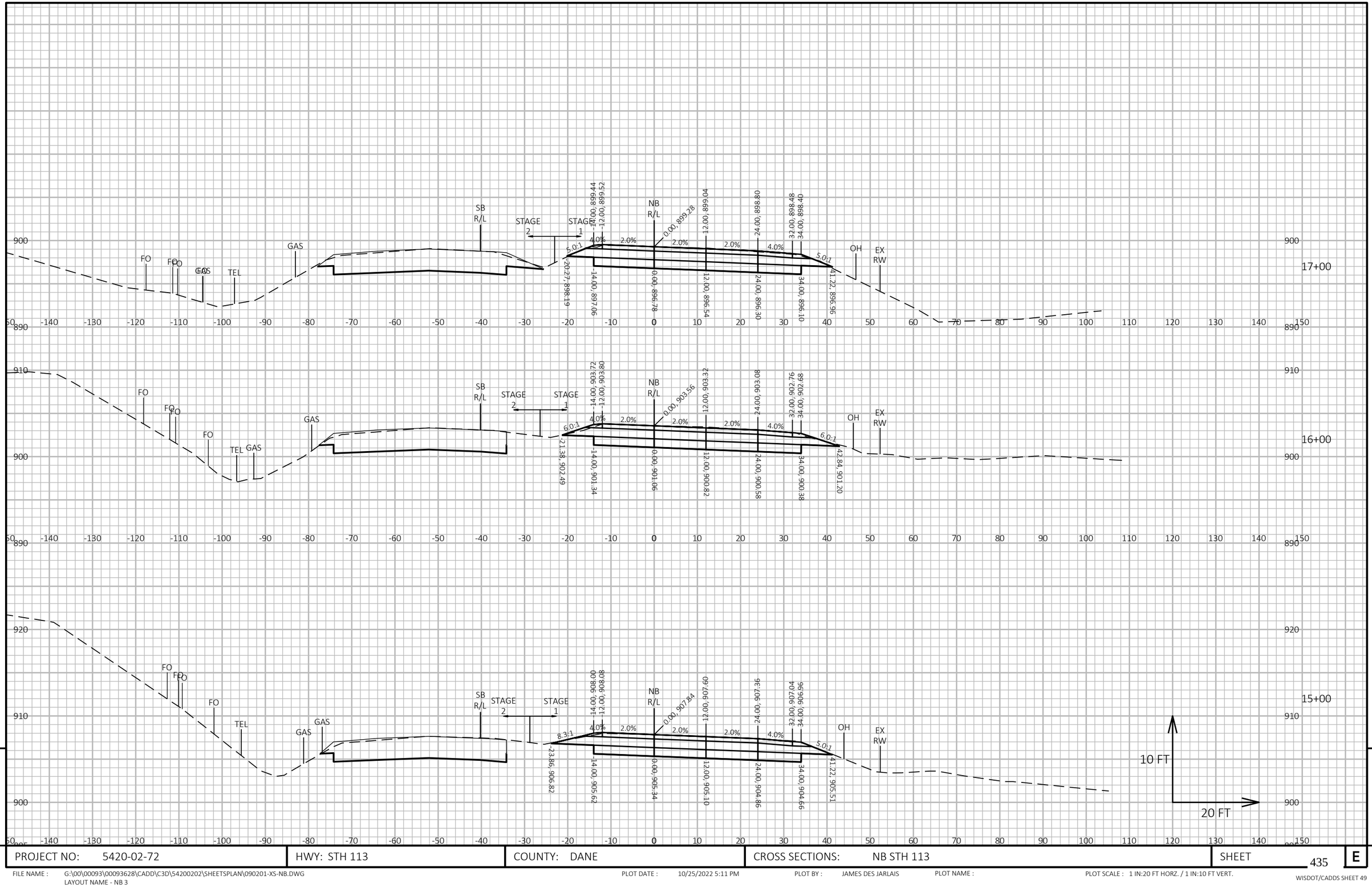


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LAYOUT NAME - NB 2

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WISDOT/CADDS SHEET 49

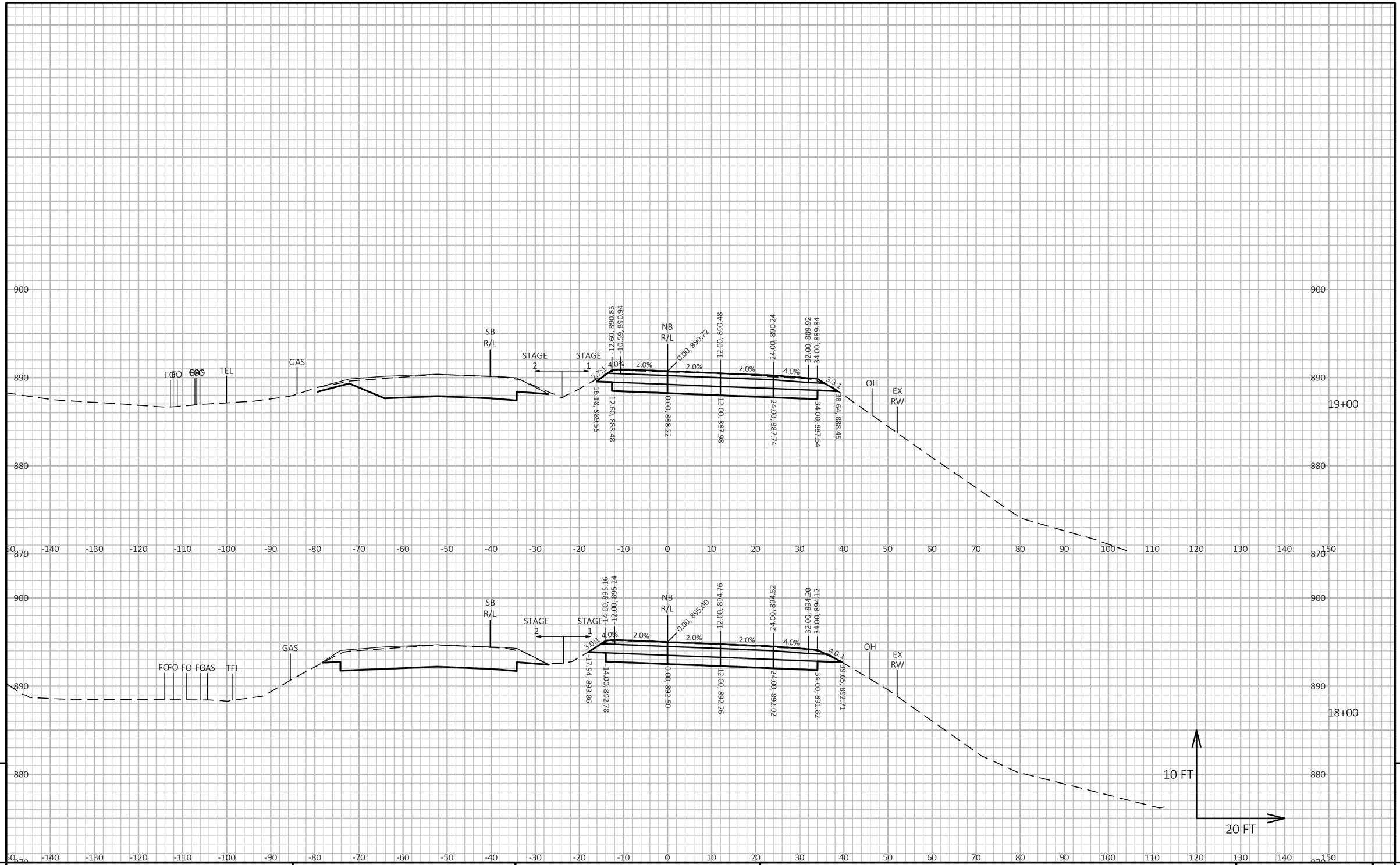


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LAYOUT NAME - NB 3

PLOT DATE : 10/25/2022 5:11 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

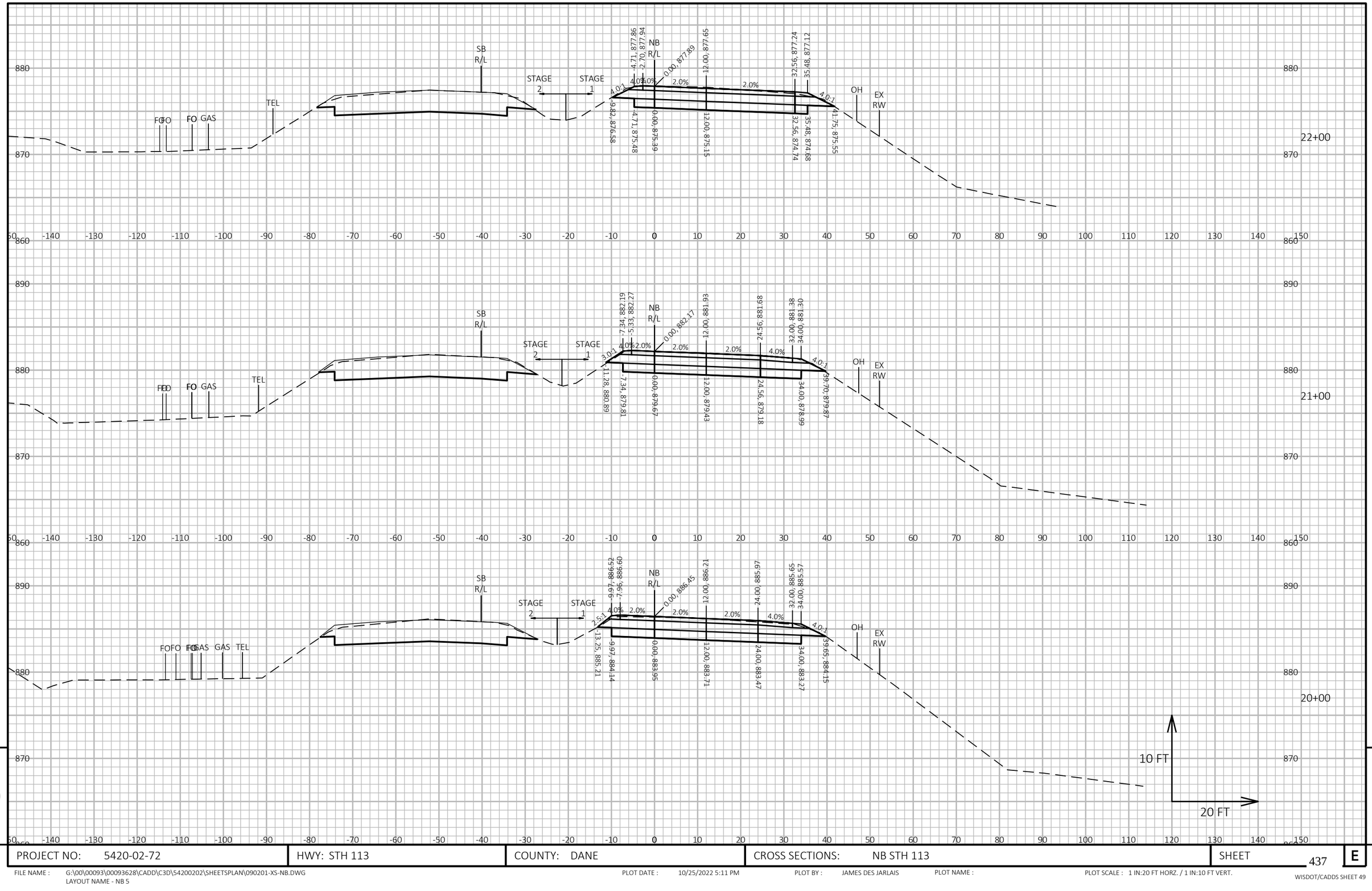
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 436	E

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LAYOUT NAME - NB 4

PLOT DATE : 10/25/2022 5:11 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

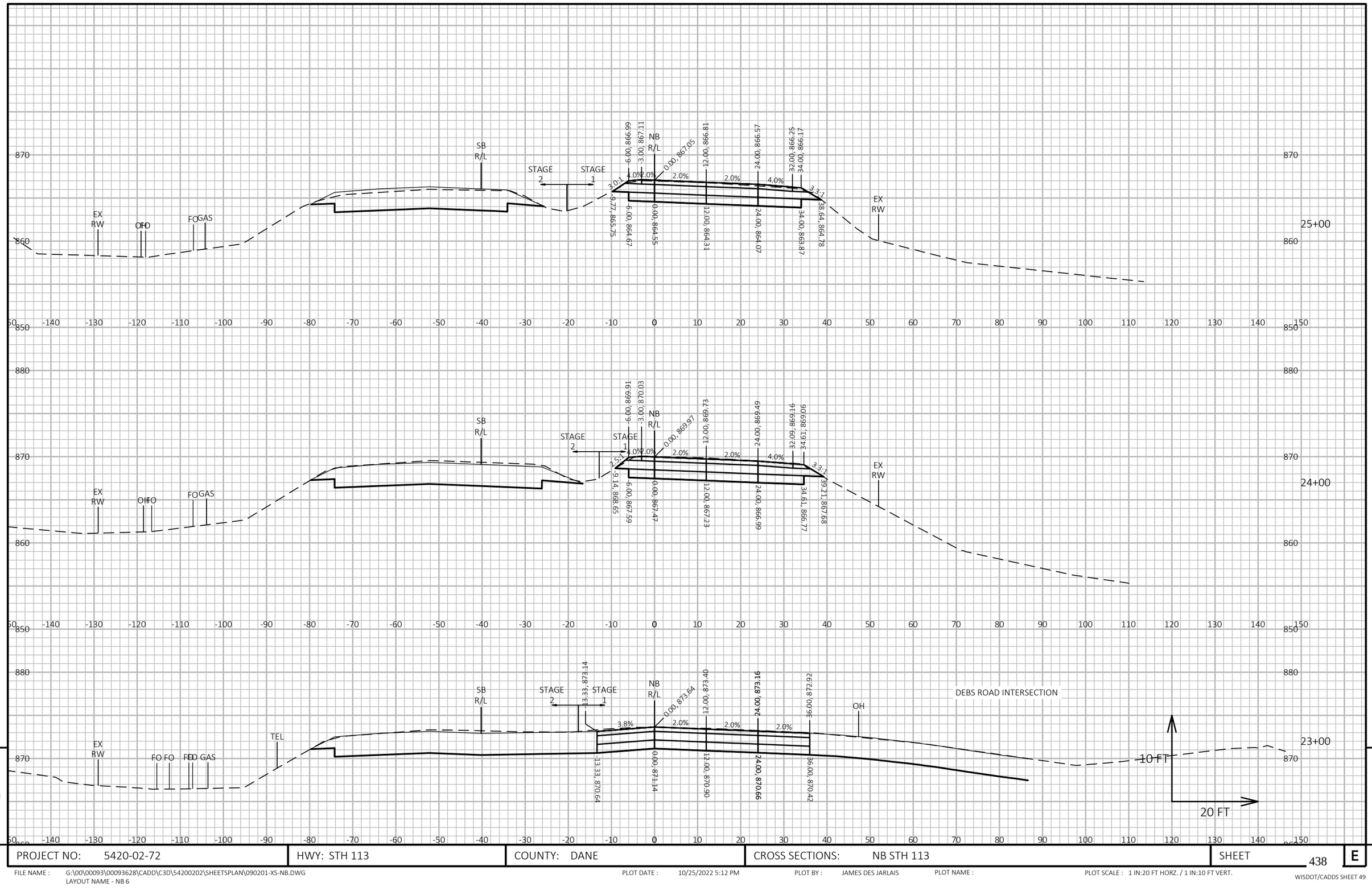


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 437	E

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LAYOUT NAME - NB 5

PLOT DATE : 10/25/2022 5:11 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



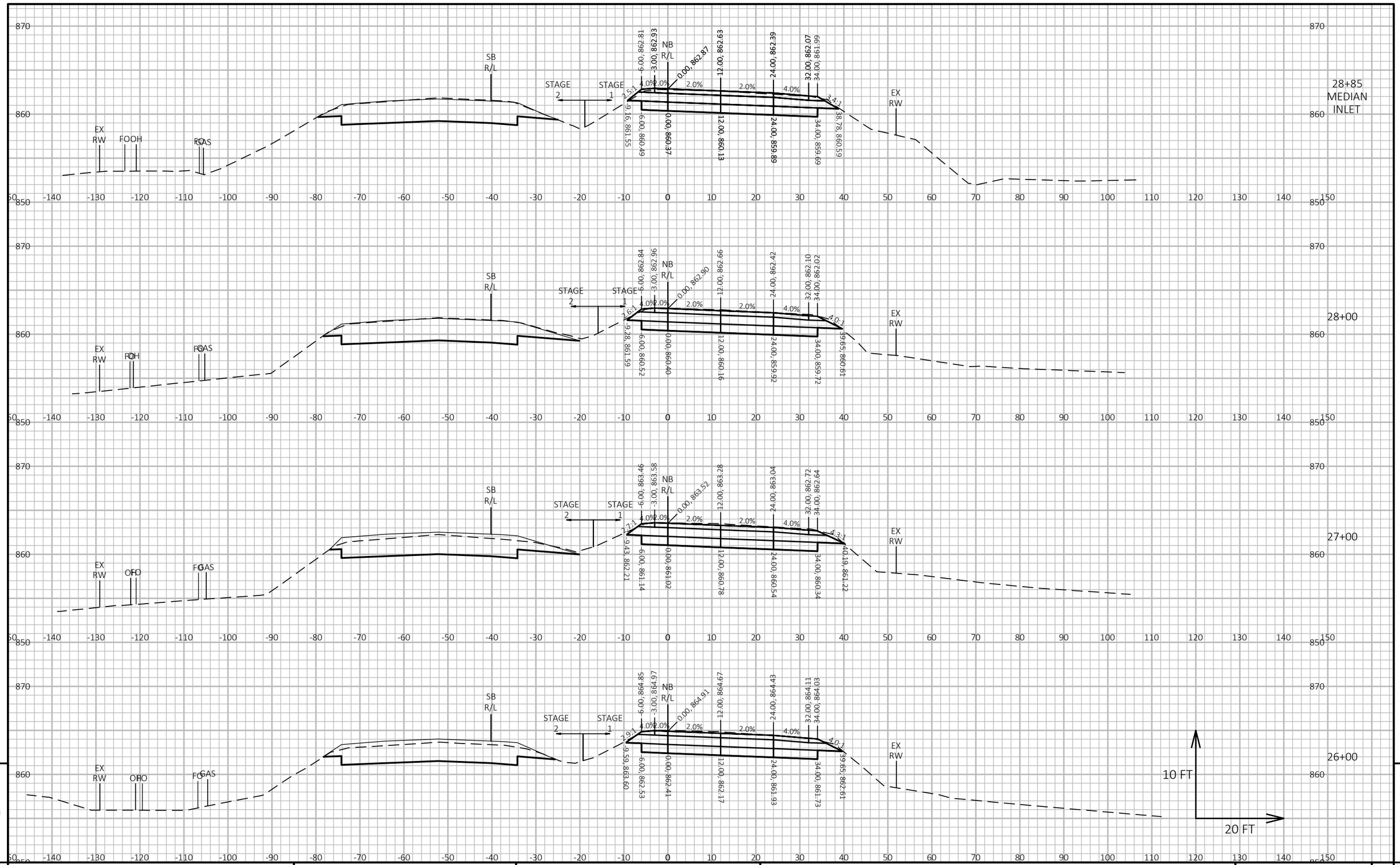
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 438	E

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LAYOUT NAME - NB 6

PLOT DATE : 10/25/2022 5:12 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

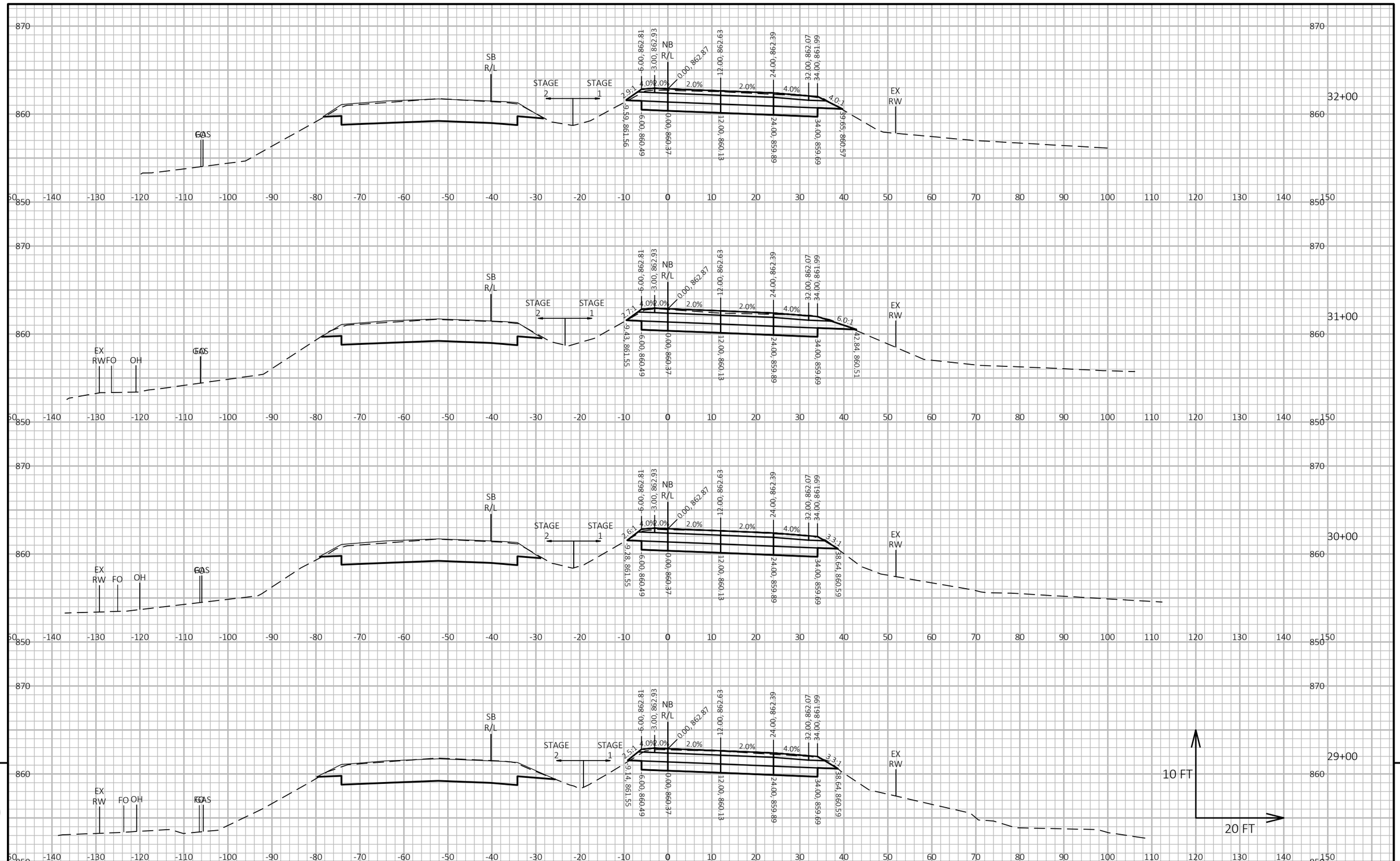


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 439 E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 7

PLOT DATE : 10/25/2022 5:12 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 440	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 8

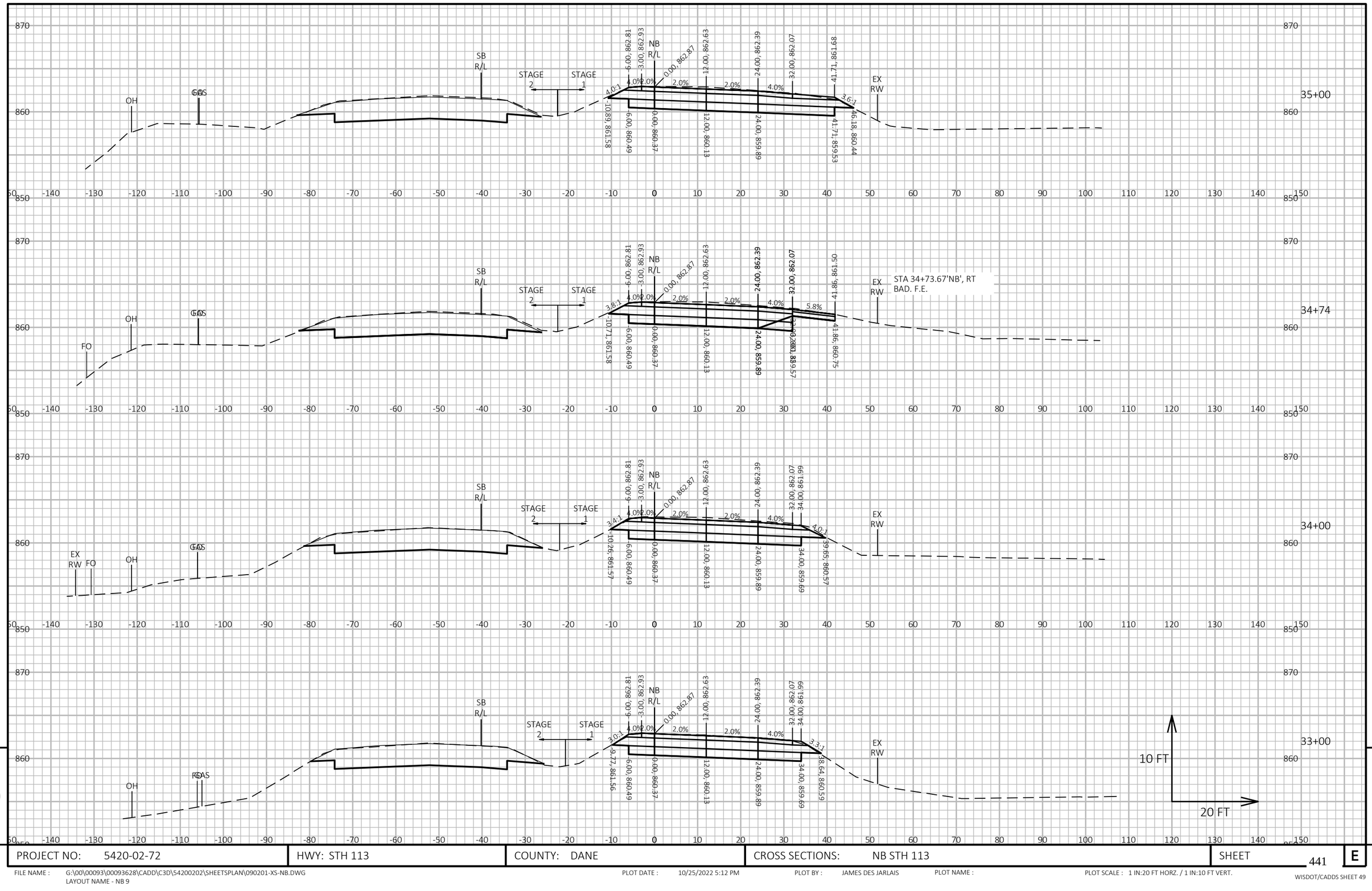
PLOT DATE : 10/25/2022 5:12 PM

PLOT BY : JAMES DES JARLAIS

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

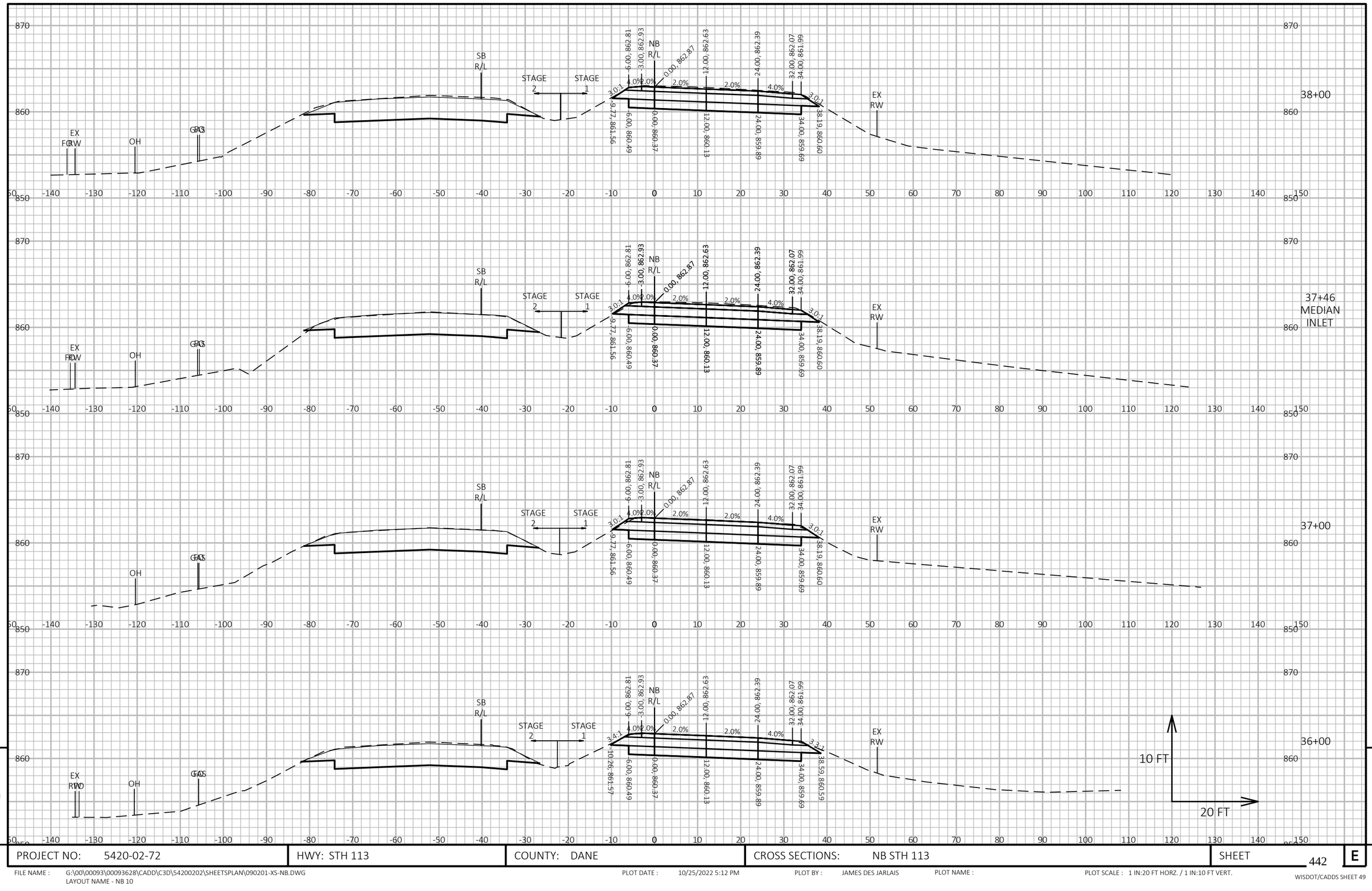


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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 441	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 9
PLOT DATE : 10/25/2022 5:12 PM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

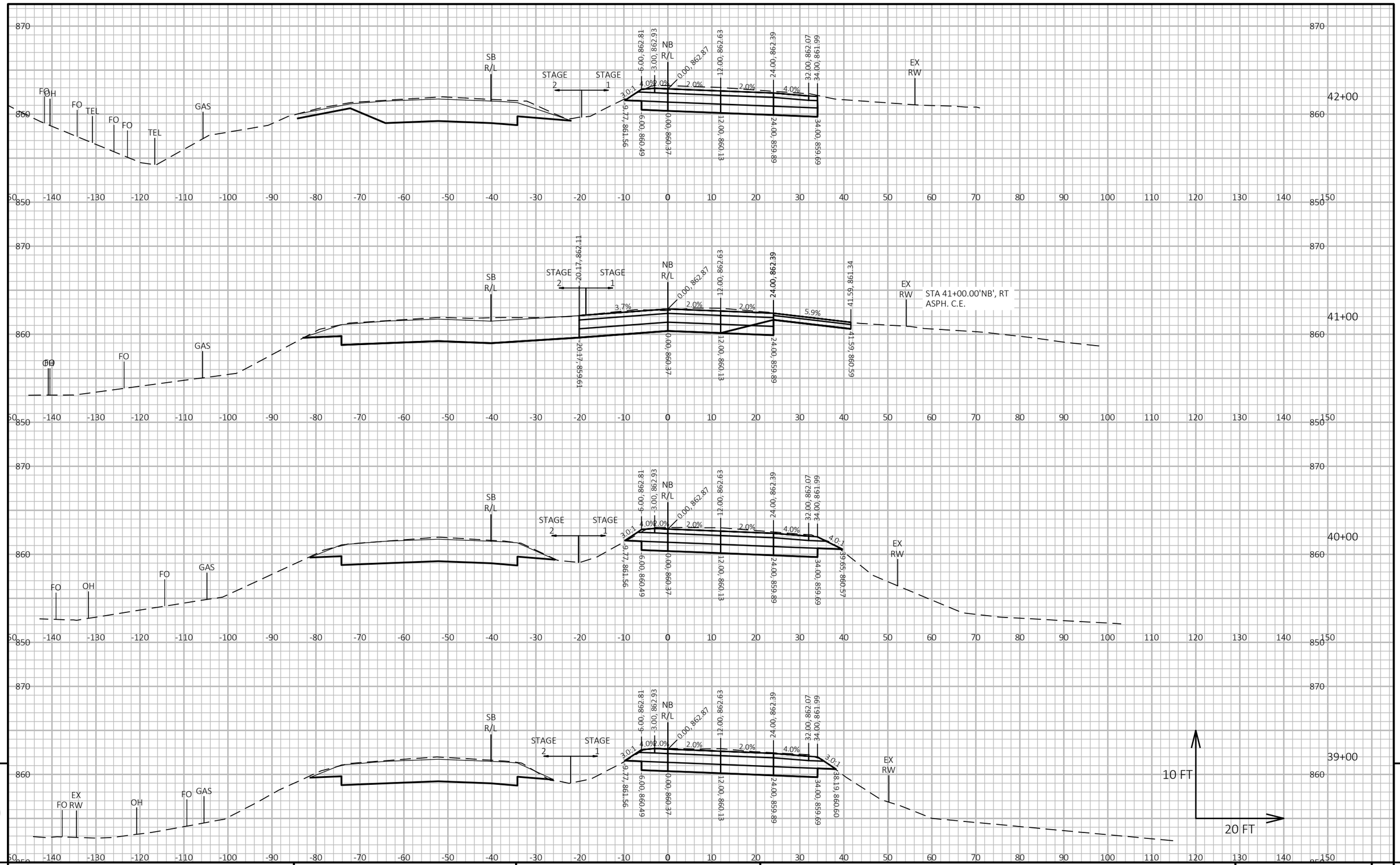


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 442 E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 10

PLOT DATE : 10/25/2022 5:12 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

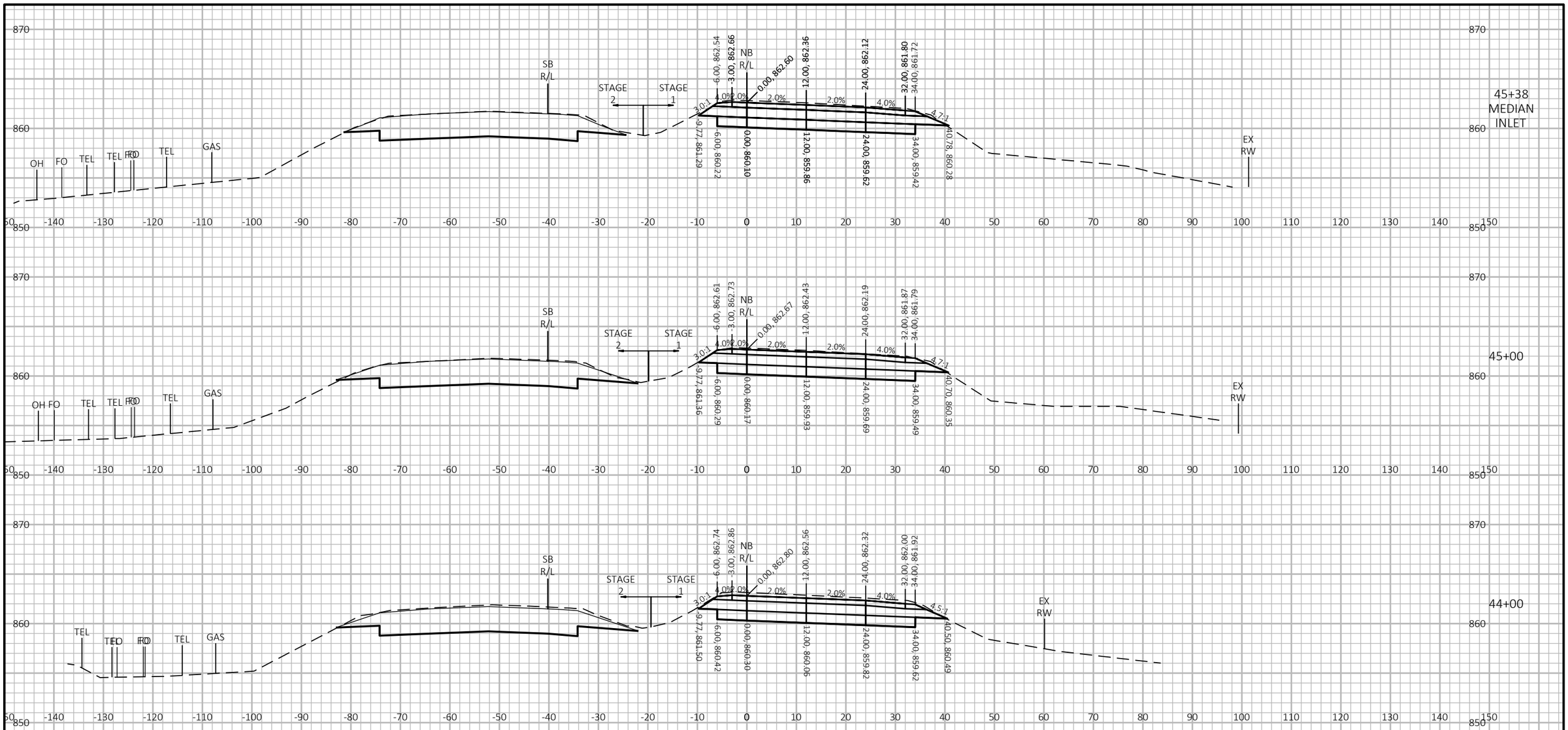


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 443 E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 11

PLOT DATE : 10/25/2022 5:12 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



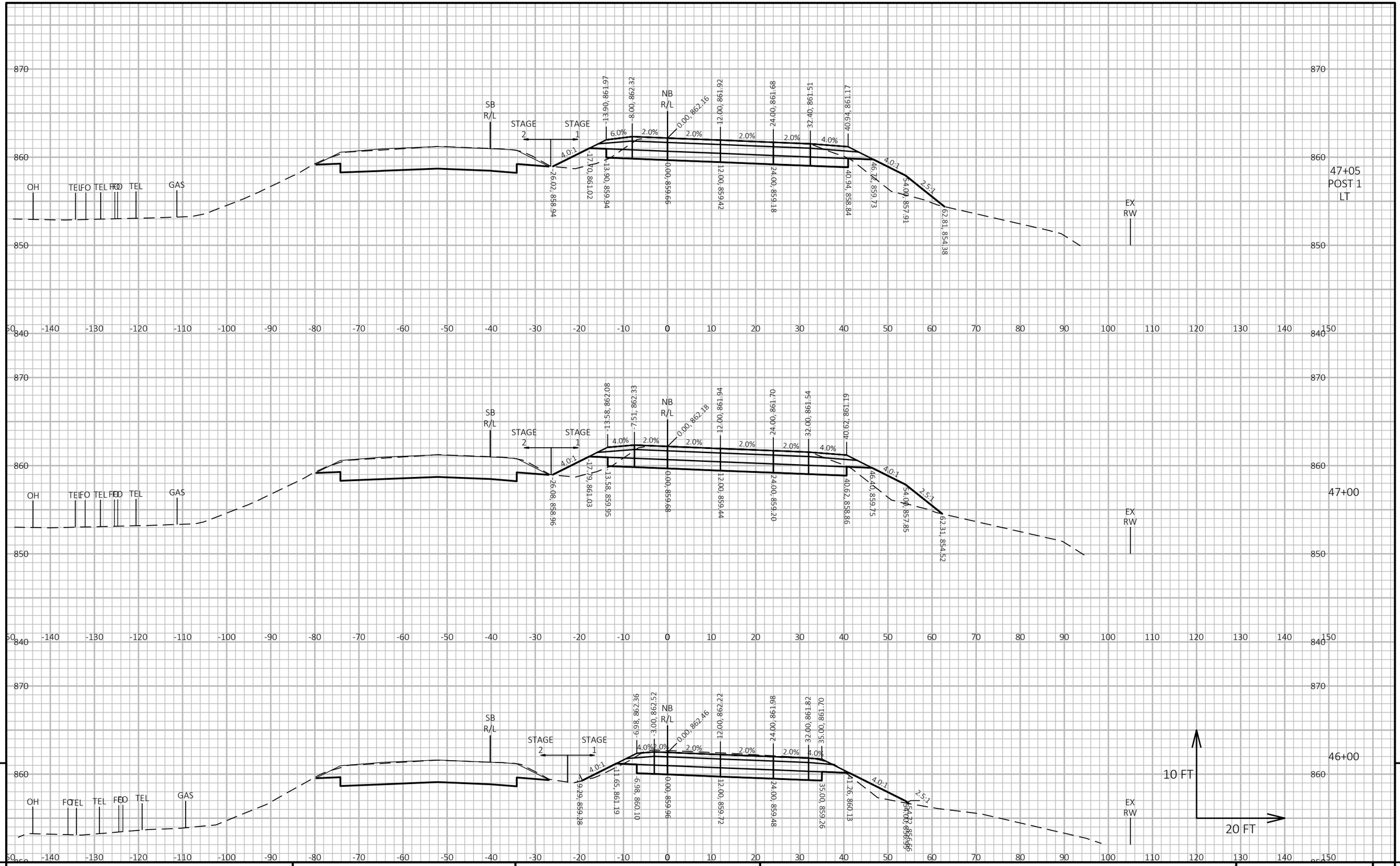
9

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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 444	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 12

PLOT DATE : 10/25/2022 5:12 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

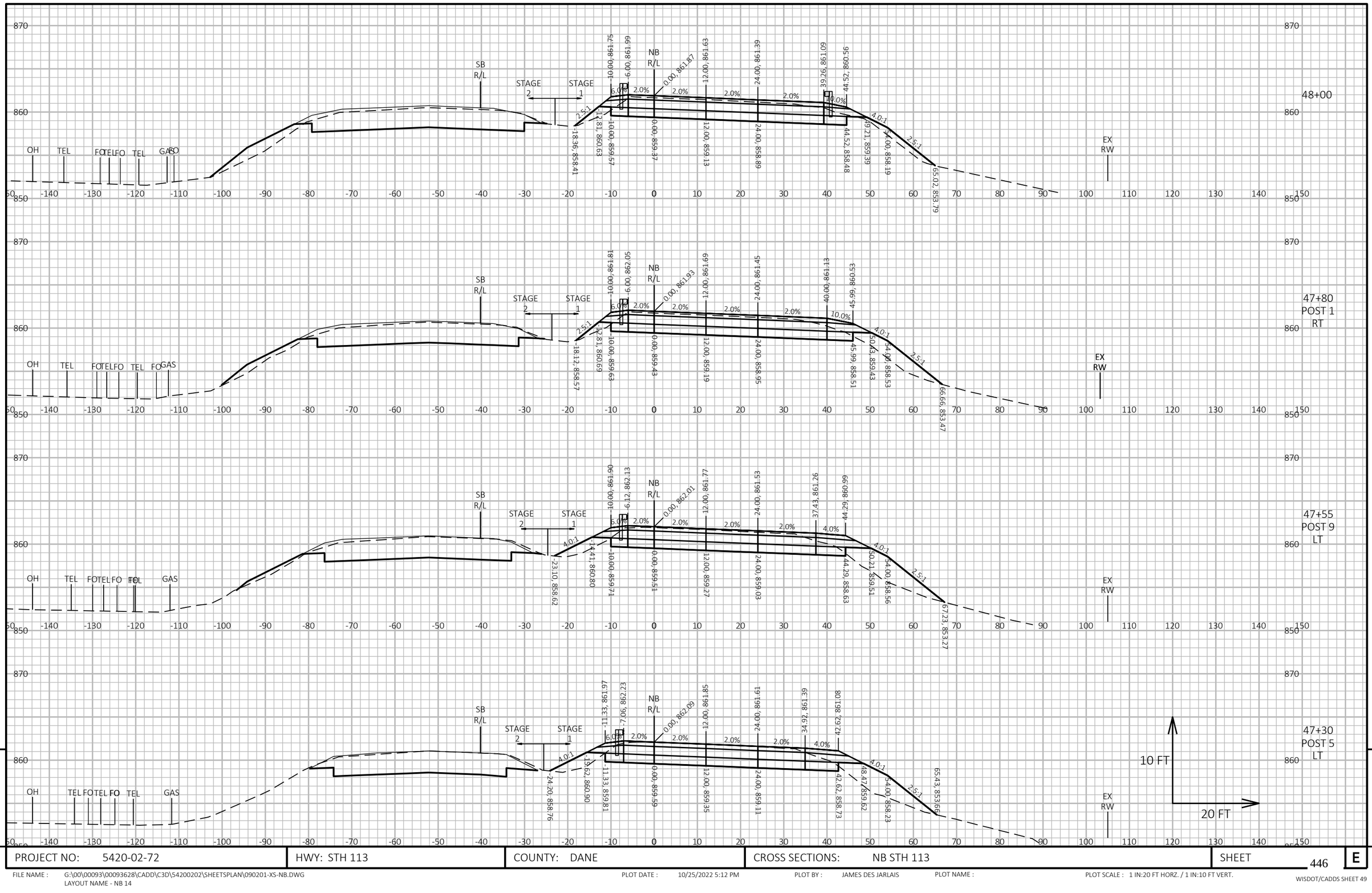


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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 445	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 13
PLOT DATE : 10/25/2022 5:12 PM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



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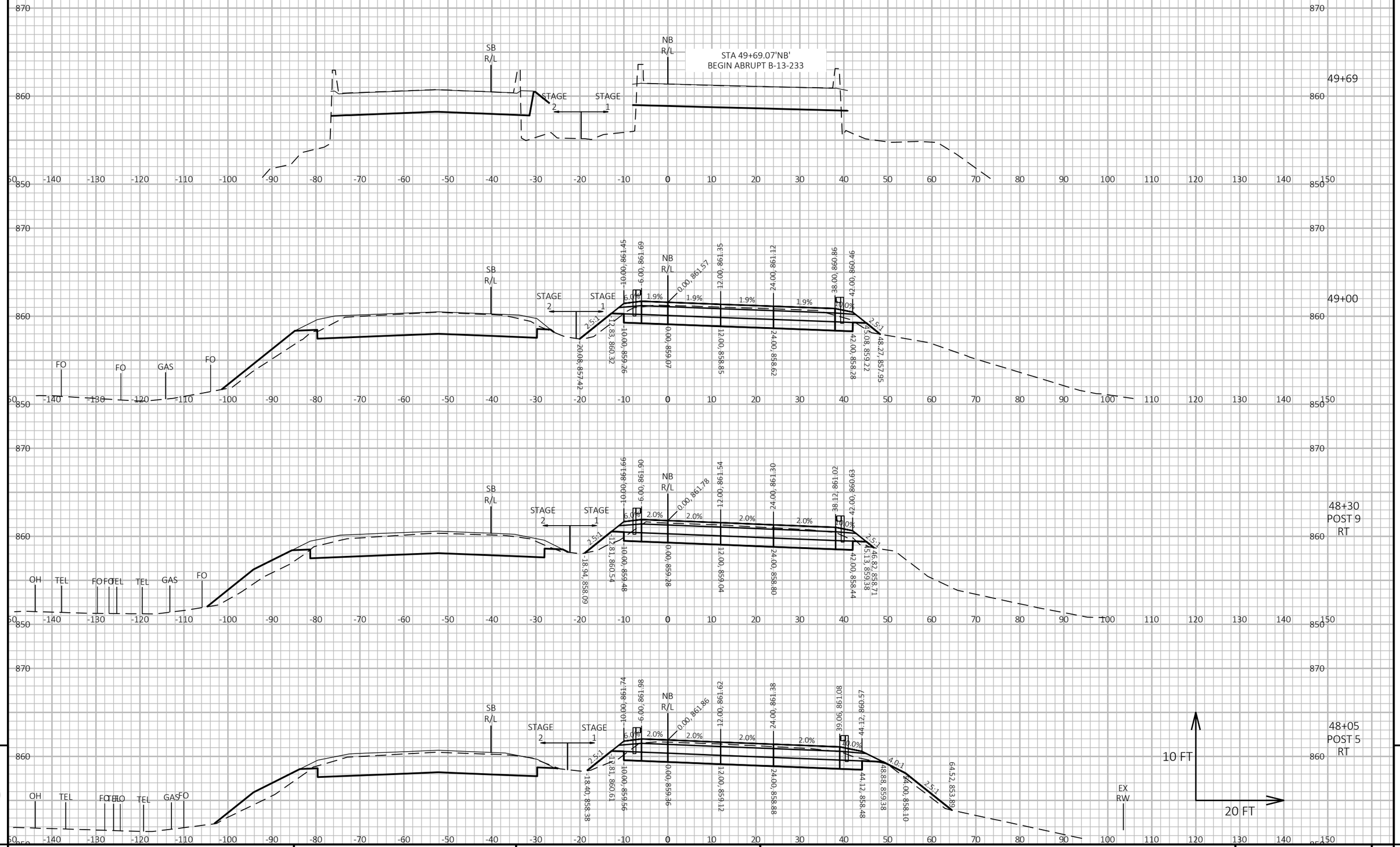
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 446	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 14

PLOT DATE : 10/25/2022 5:12 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

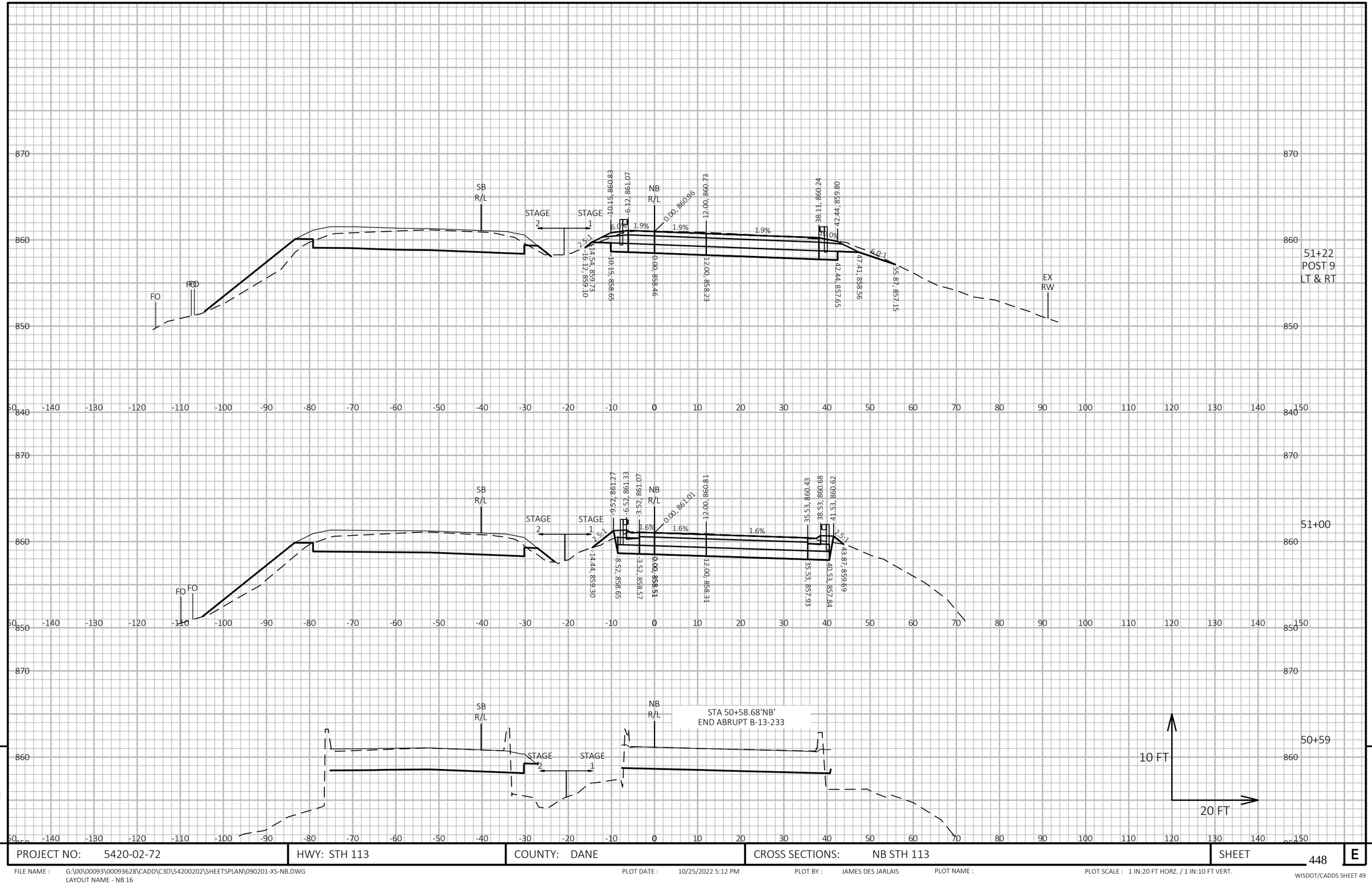
WISDOT/CADDS SHEET 49

STA 49+69.07'NB'
BEGIN ABRUPT B-13-233



PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 447 E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 15
PLOT DATE : 10/25/2022 5:12 PM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49



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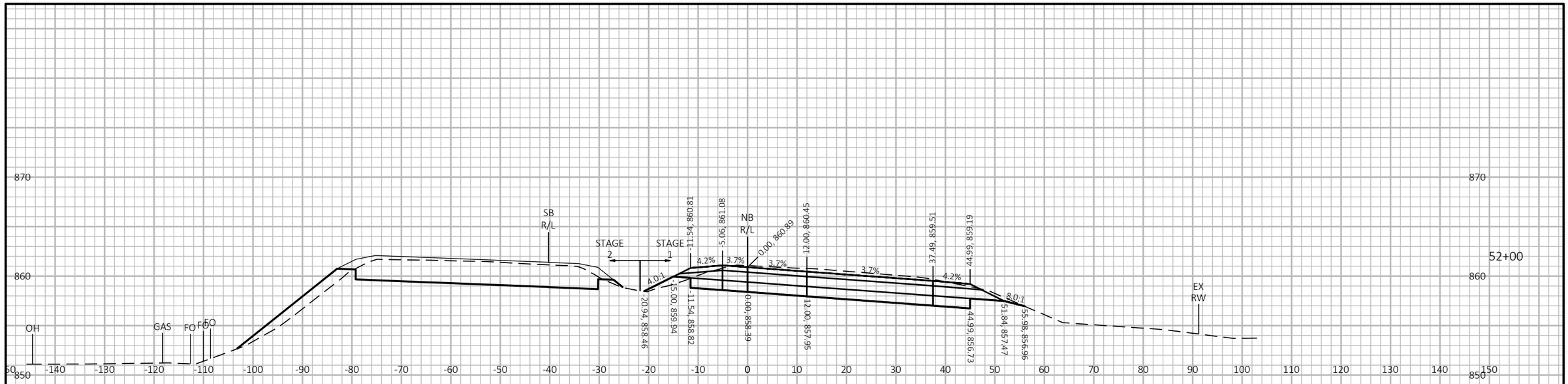
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 448	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 16

PLOT DATE : 10/25/2022 5:12 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 449	E

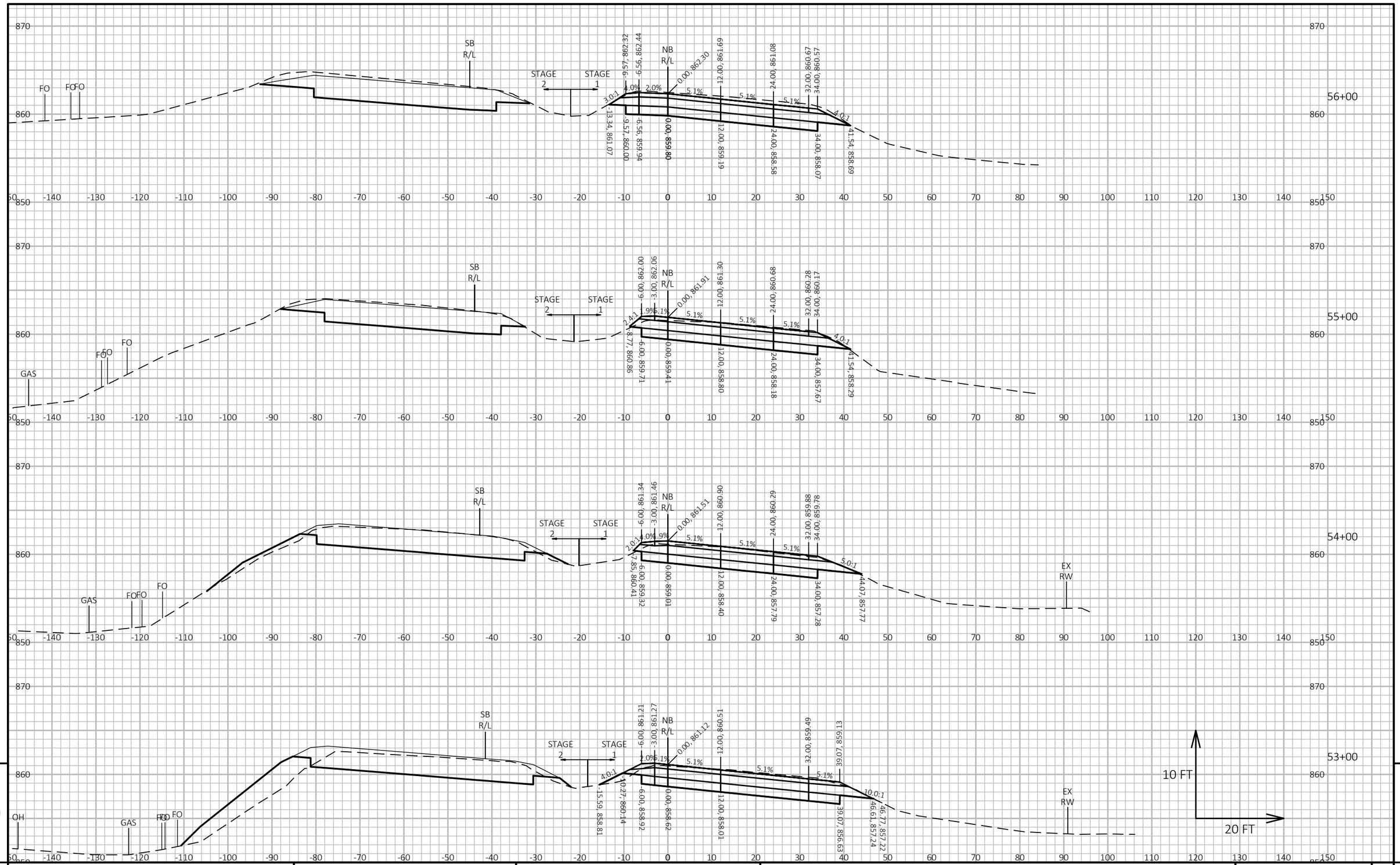
FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 17

PLOT DATE : 10/25/2022 5:12 PM

PLOT BY : JAMES DES JARLAIS

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

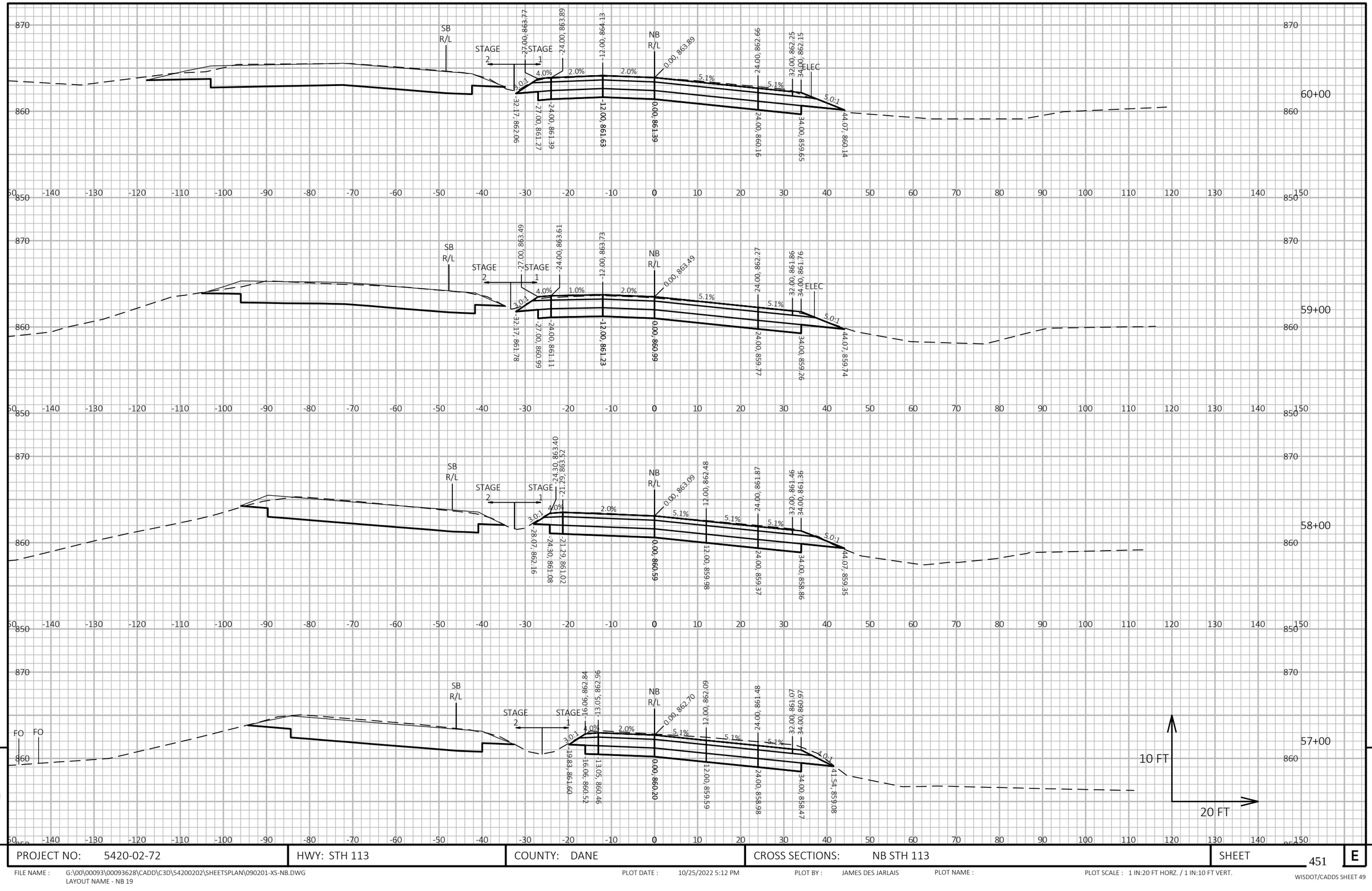


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 450 E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 18

PLOT DATE : 10/25/2022 5:12 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

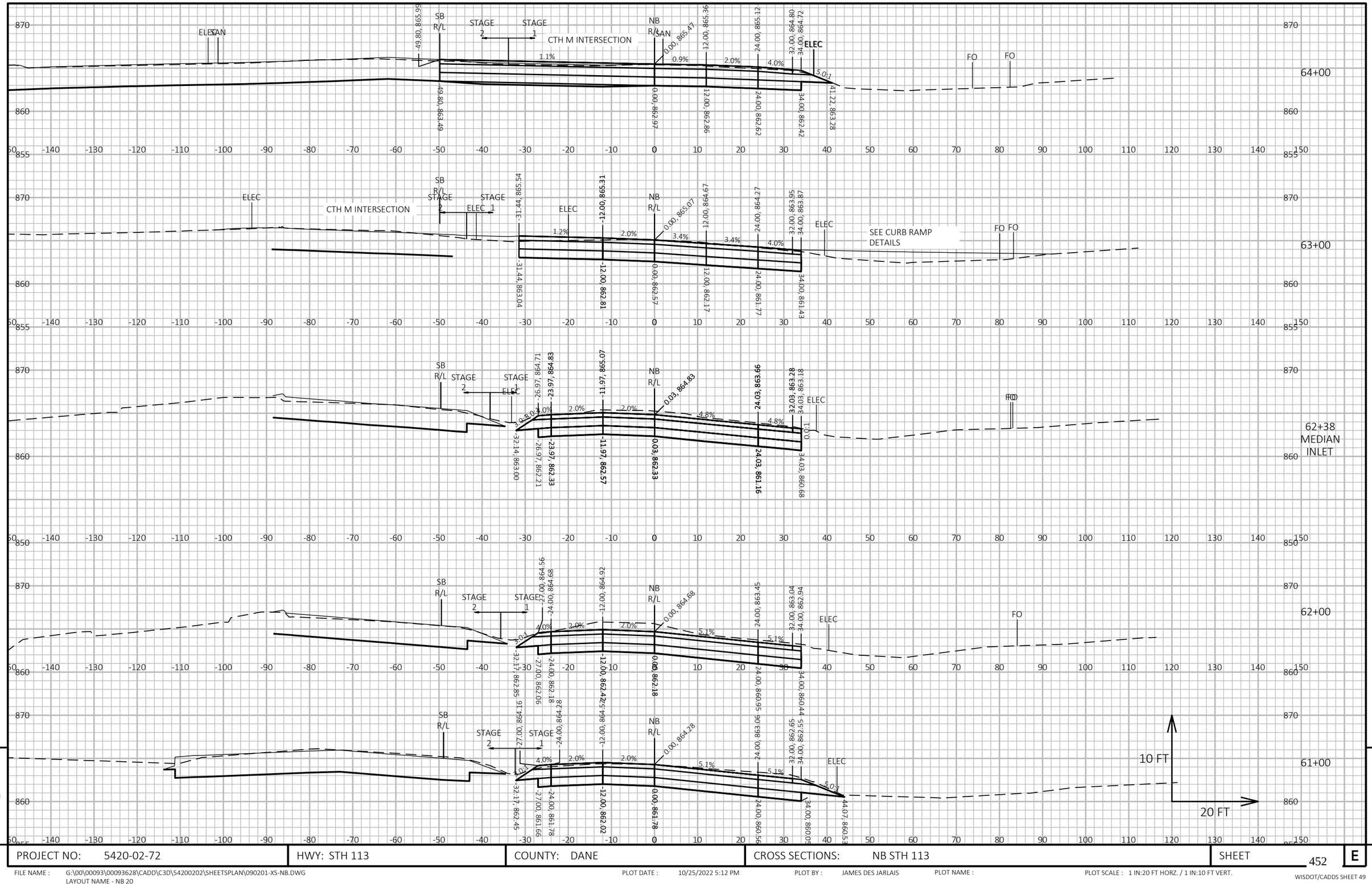


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 451 E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 19

PLOT DATE : 10/25/2022 5:12 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 452 E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 20

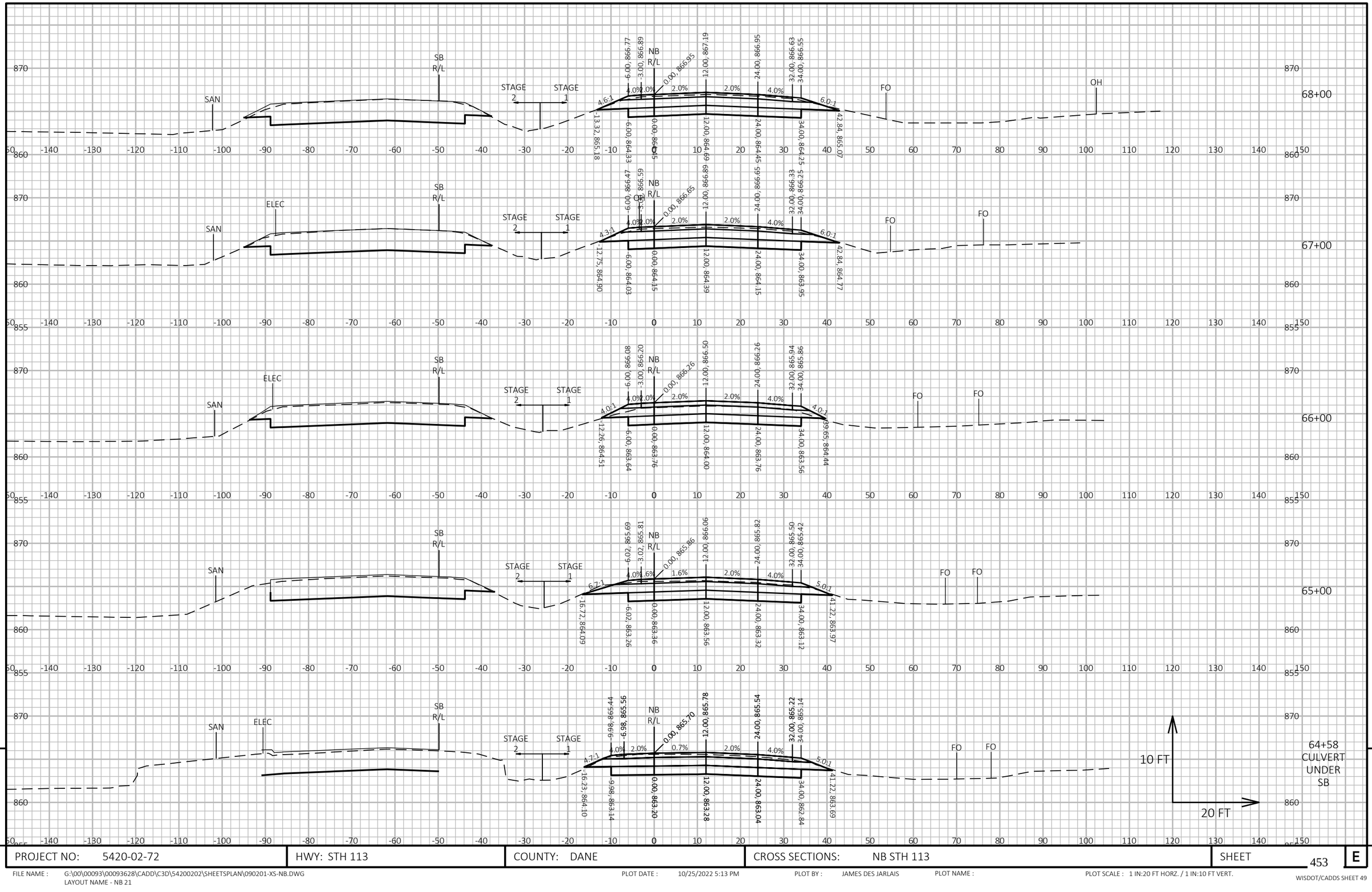
PLOT DATE : 10/25/2022 5:12 PM

PLOT BY : JAMES DES JARLAIS

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

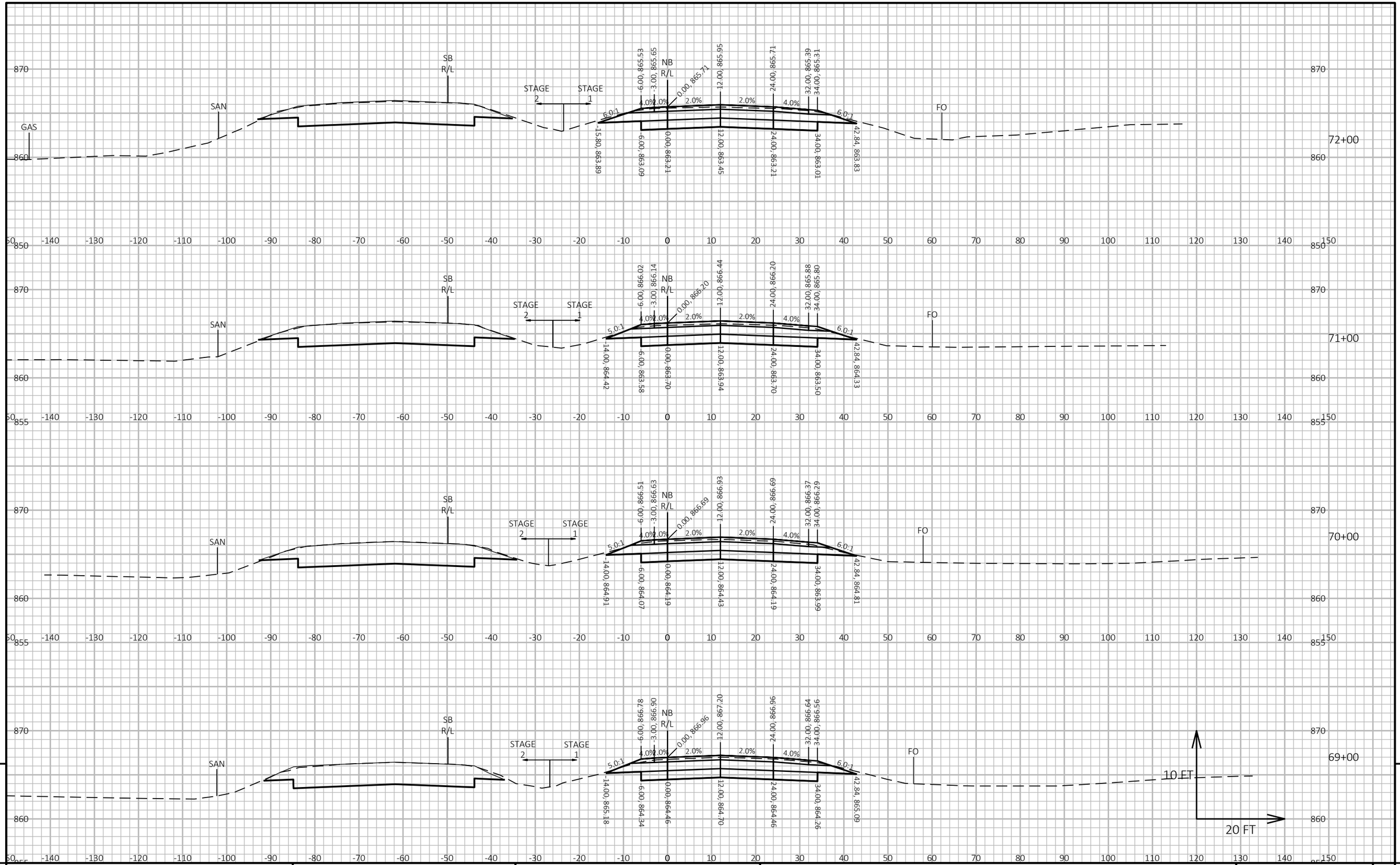


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 453	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 21

PLOT DATE : 10/25/2022 5:13 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

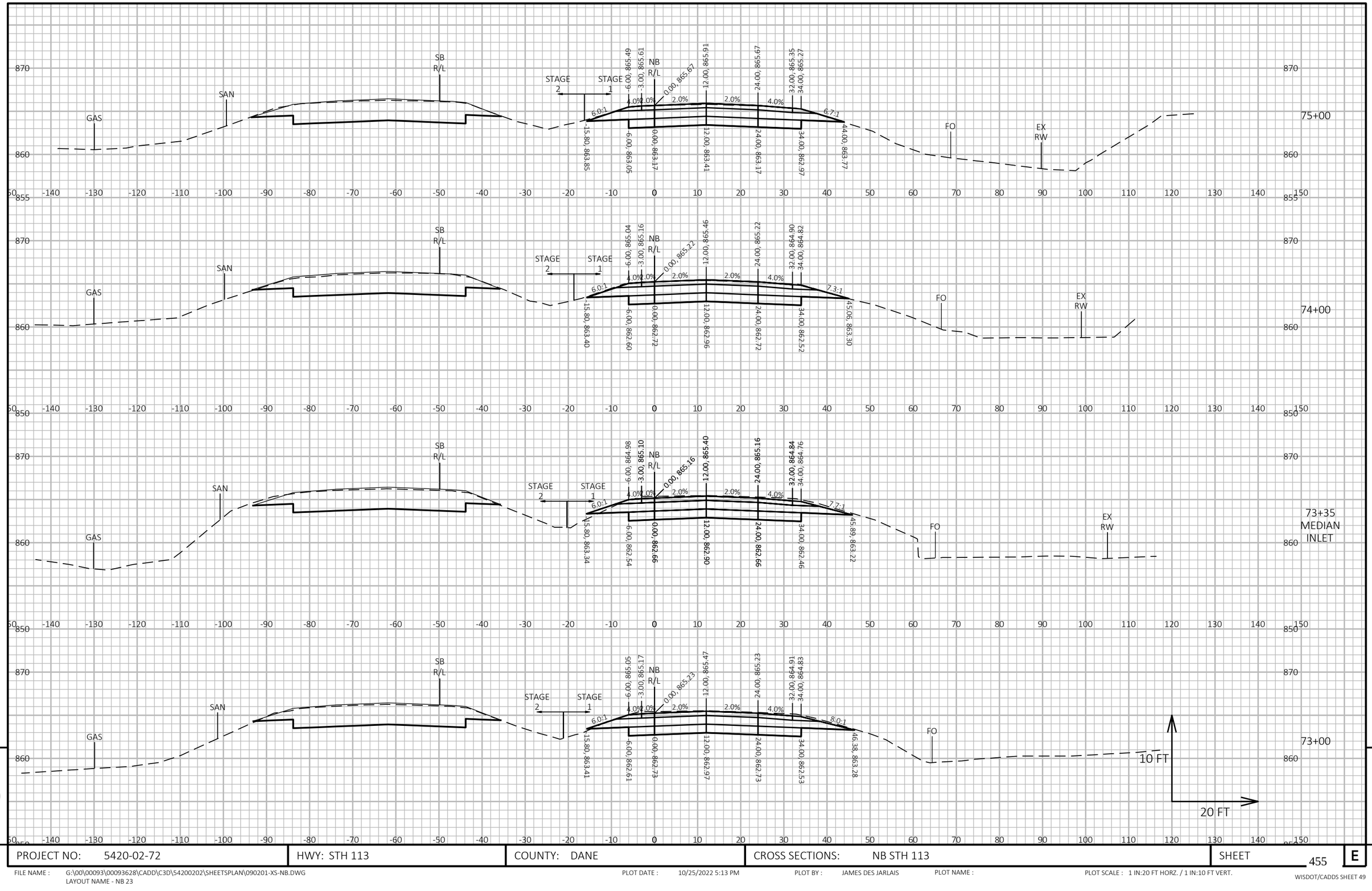


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 454	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 22

PLOT DATE : 10/25/2022 5:13 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 455	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 23

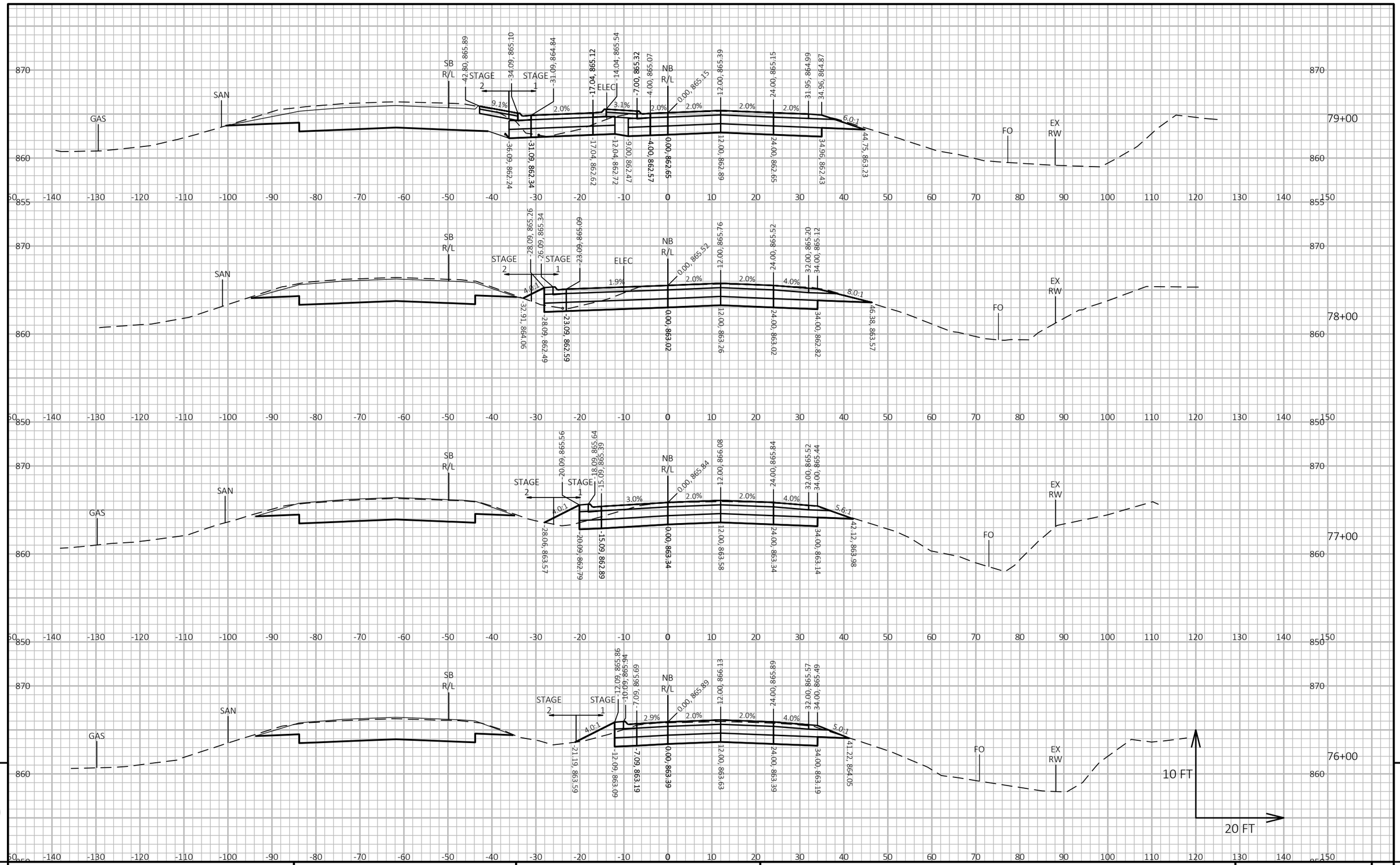
PLOT DATE : 10/25/2022 5:13 PM

PLOT BY : JAMES DES JARLAIS

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

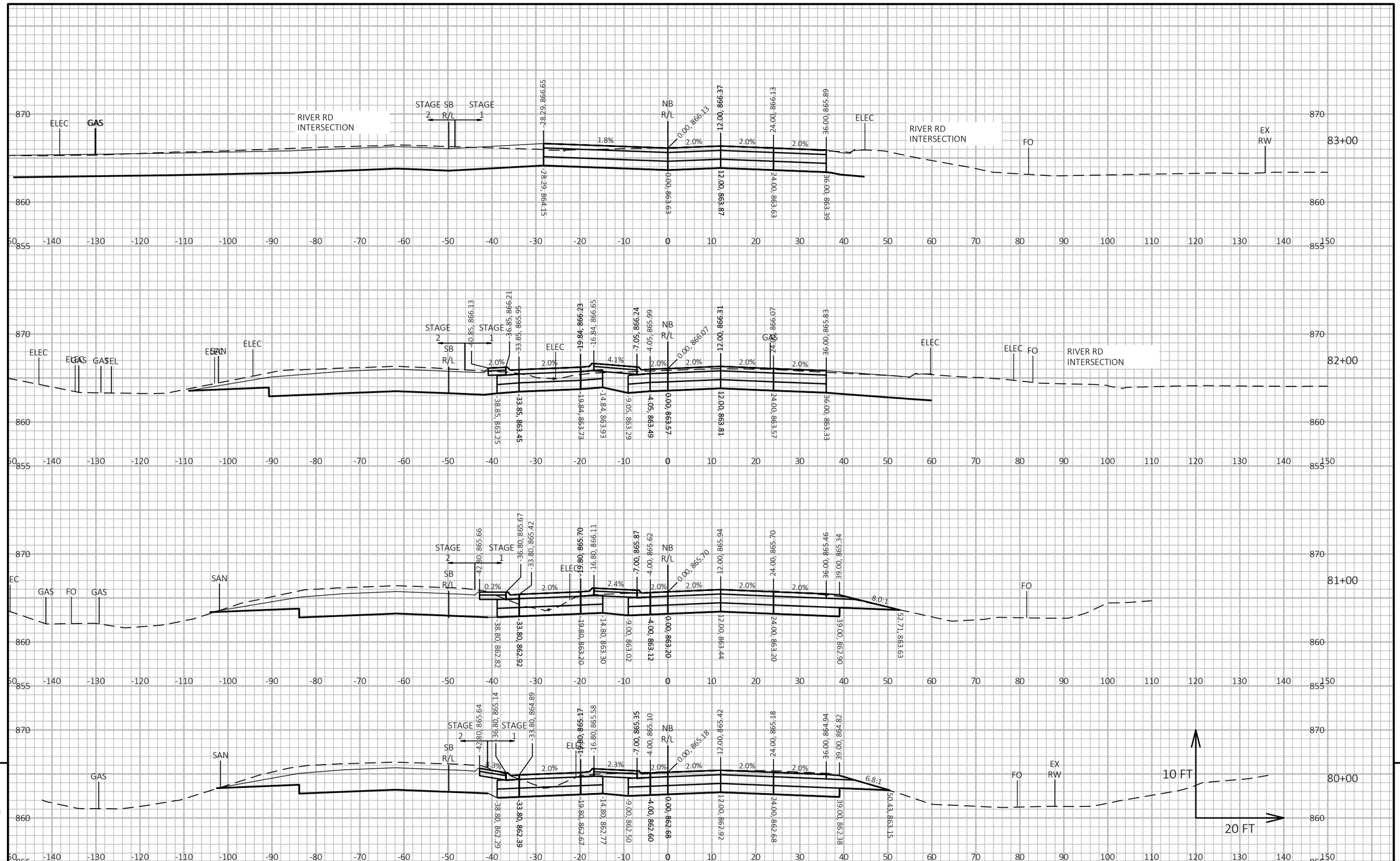


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 456	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 24

PLOT DATE : 10/25/2022 5:13 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

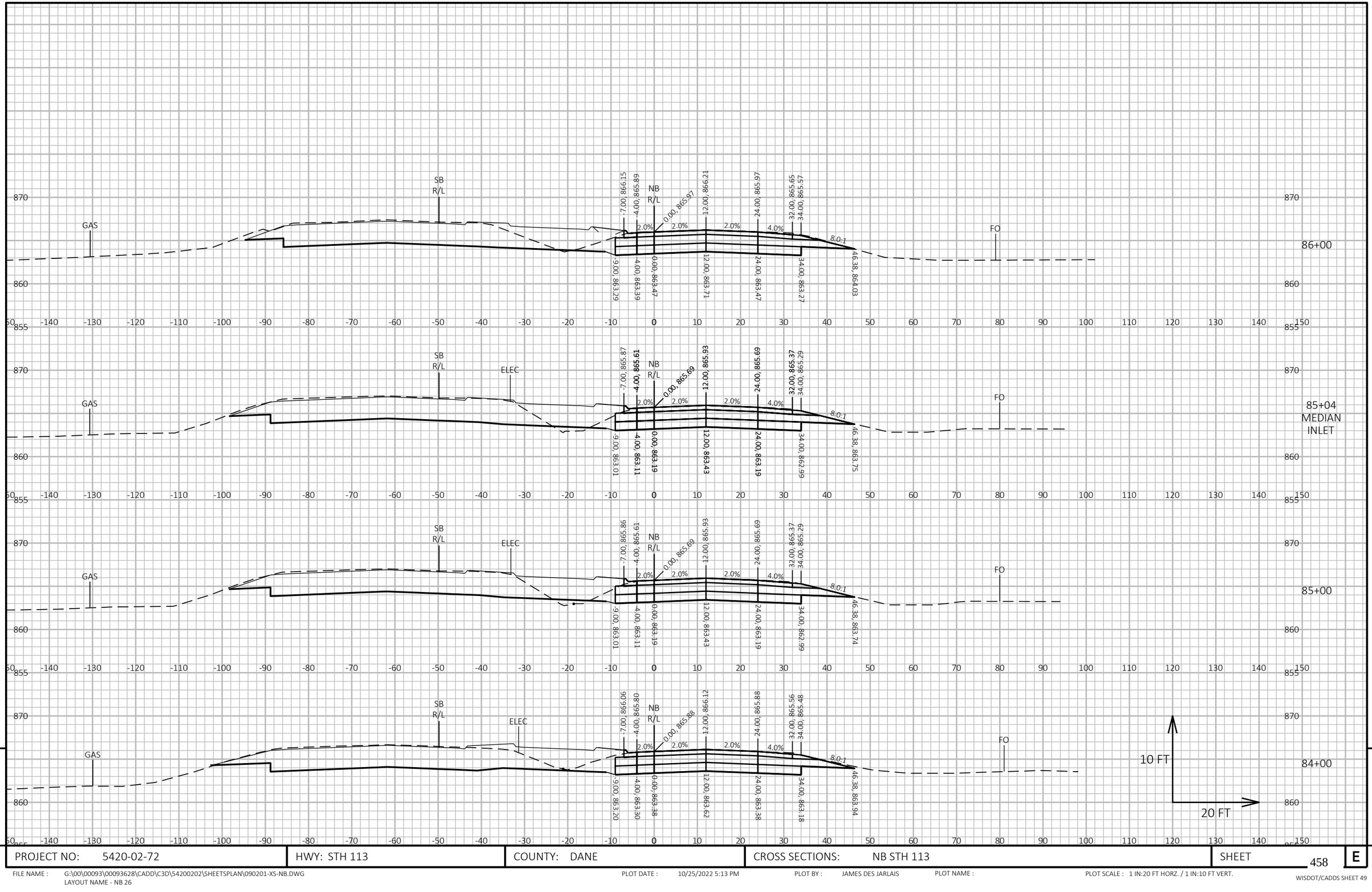
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 457	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 25

PLOT DATE : 10/25/2022 5:13 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



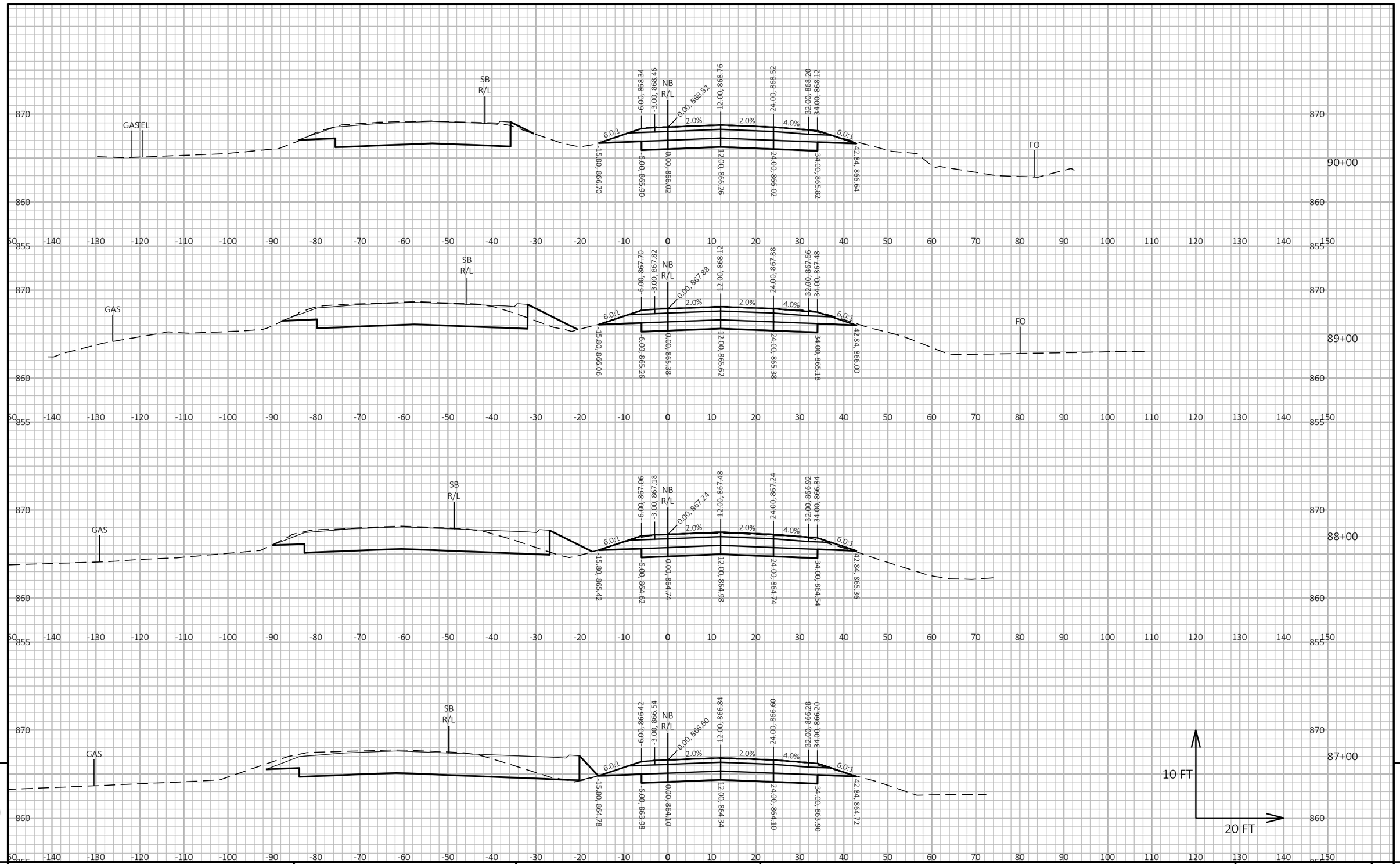
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 458	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 26

PLOT DATE : 10/25/2022 5:13 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



9

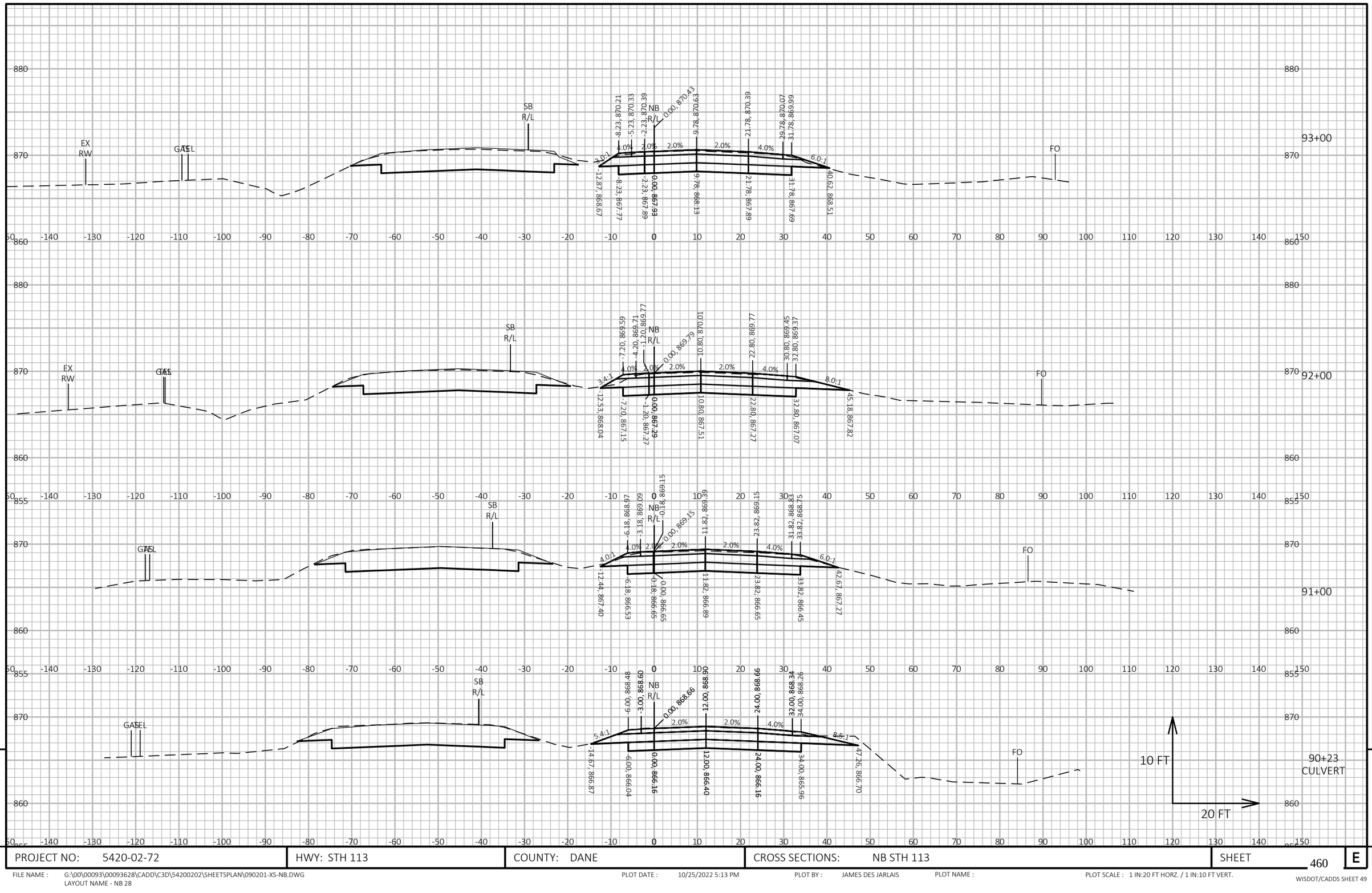
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 459	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 27

PLOT DATE : 10/25/2022 5:13 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

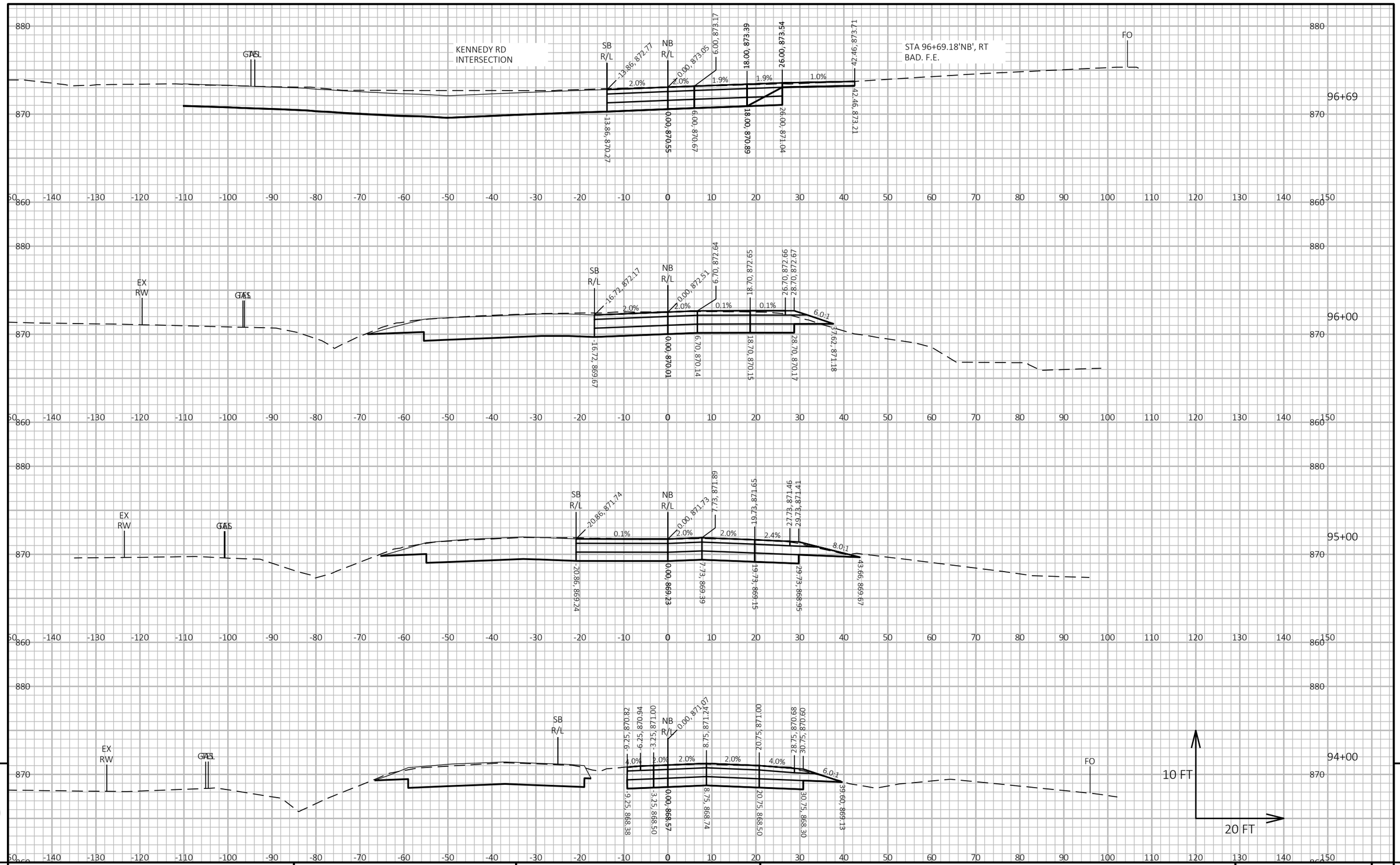


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 460	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 28

PLOT DATE : 10/25/2022 5:13 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



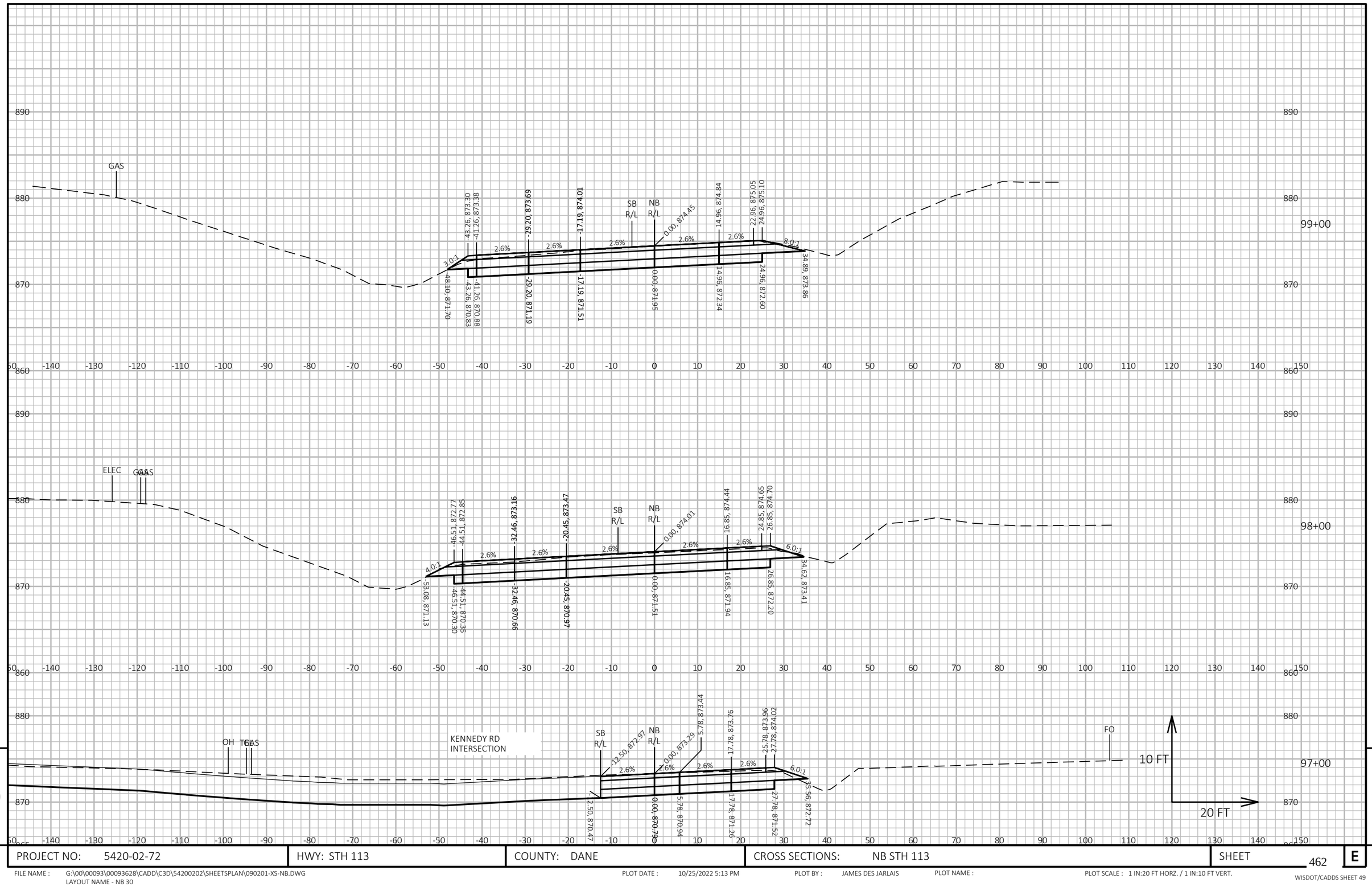
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 461	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 29

PLOT DATE : 10/25/2022 5:13 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



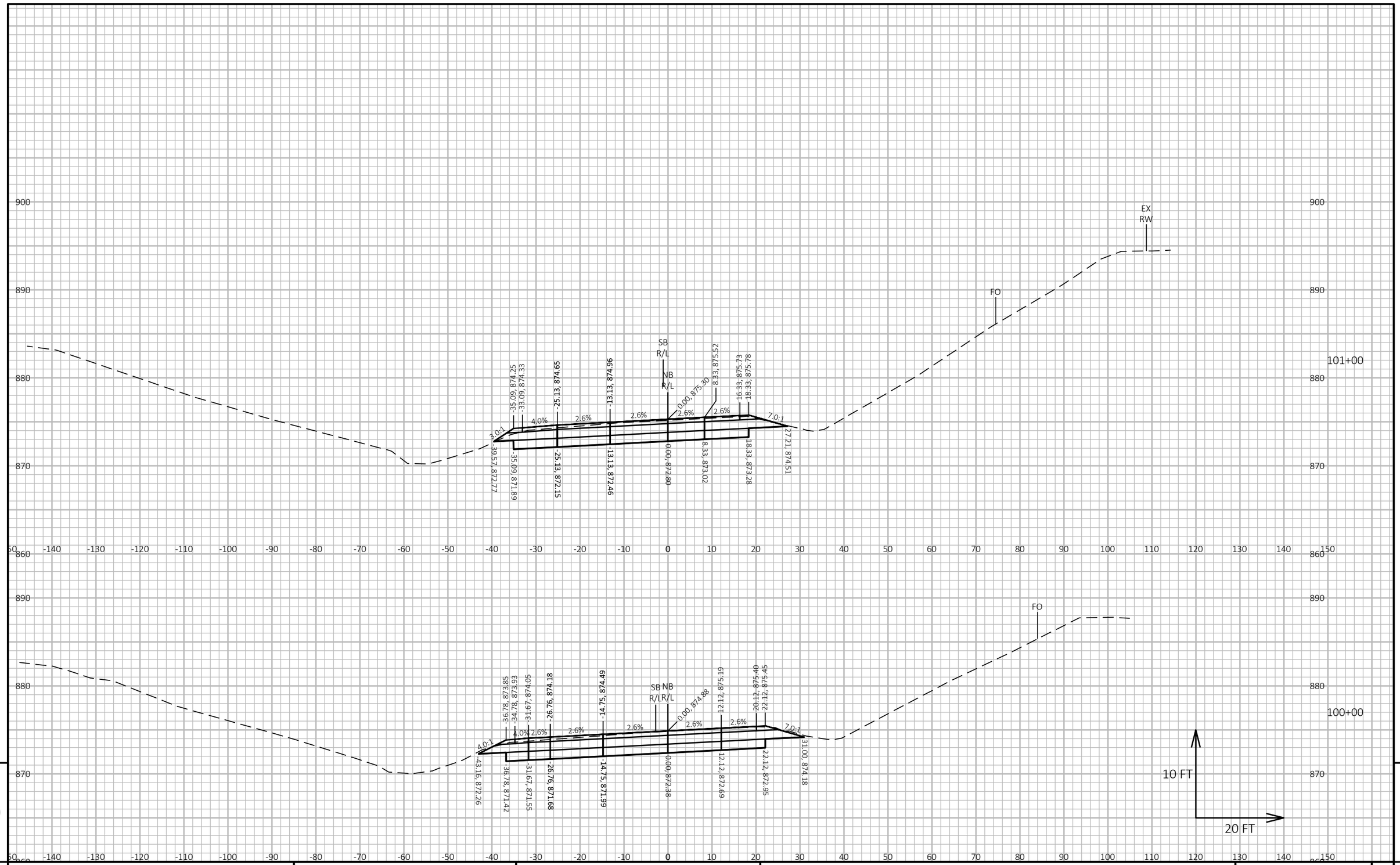
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 462	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 30

PLOT DATE : 10/25/2022 5:13 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



9

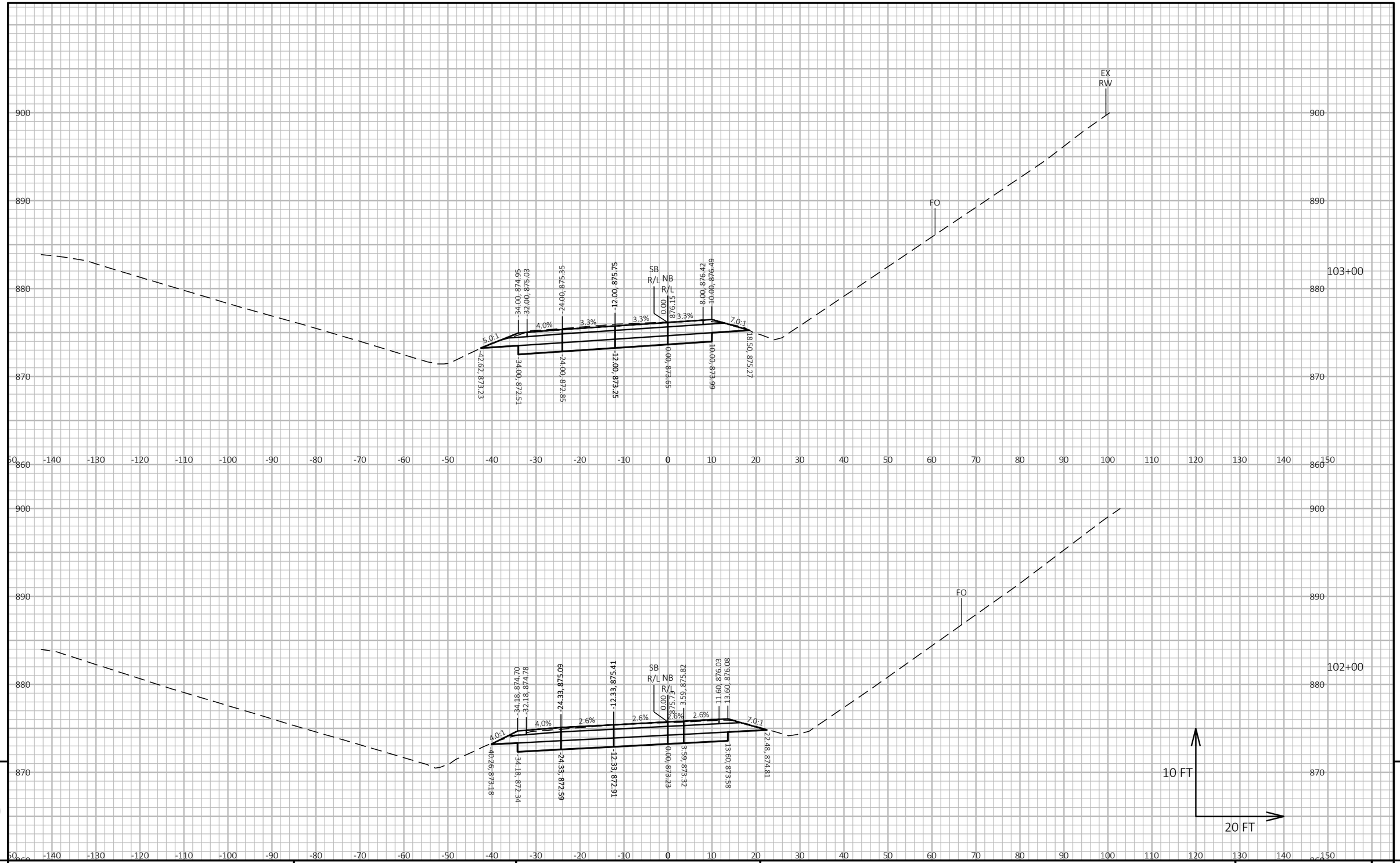
9

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 463	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 31

PLOT DATE : 10/25/2022 5:13 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

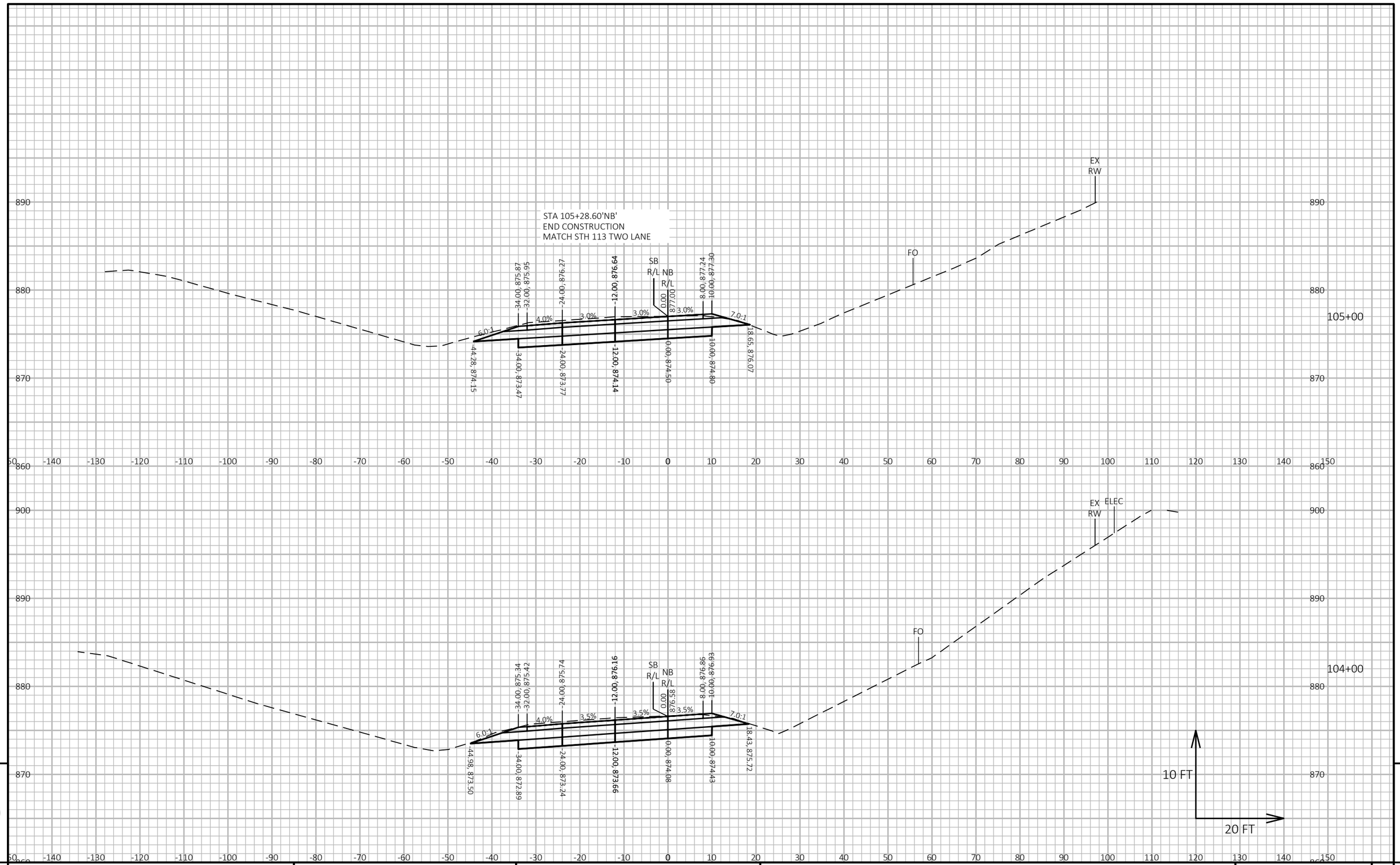


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 464	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 32

PLOT DATE : 10/25/2022 5:13 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

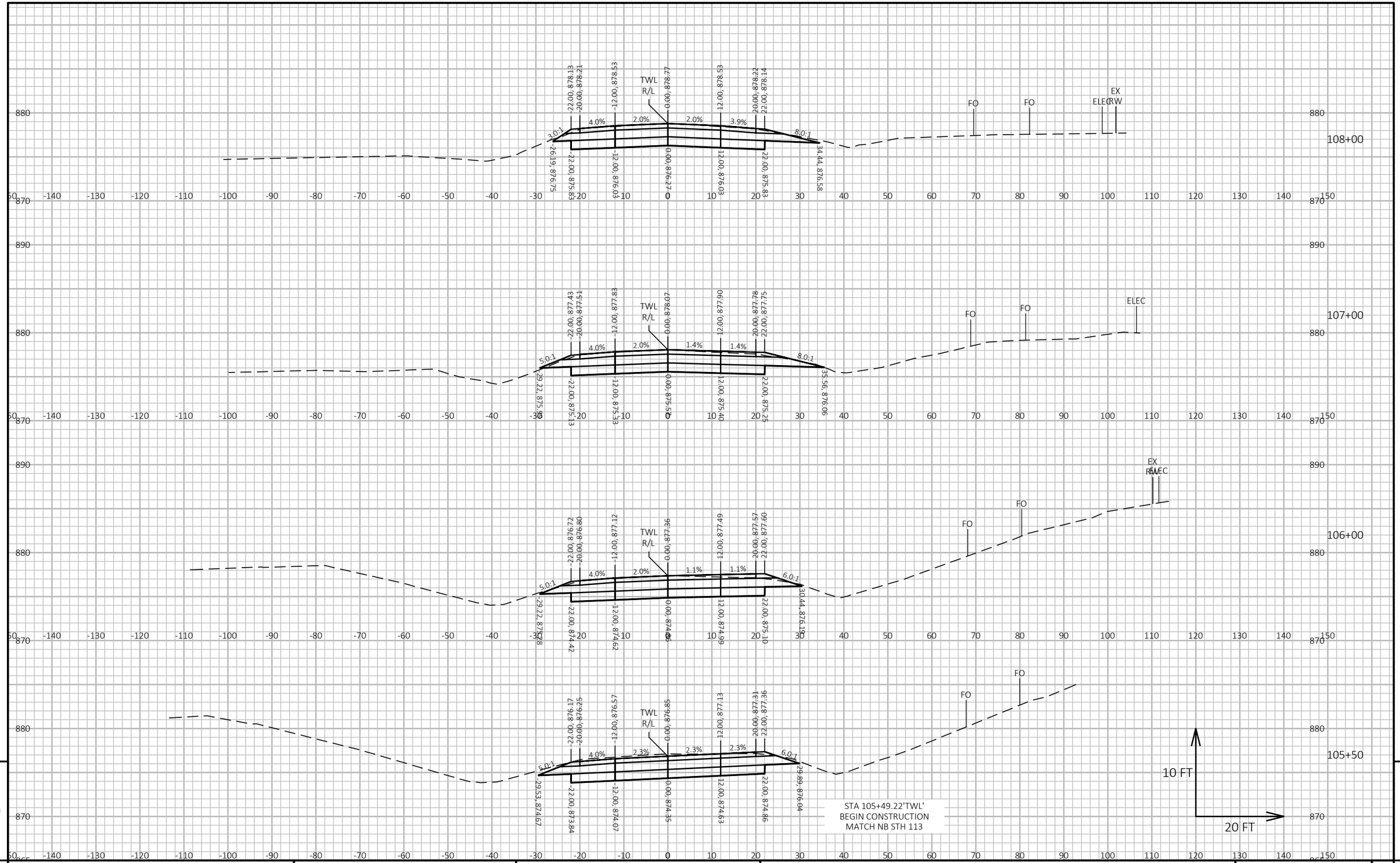


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: NB STH 113	SHEET 465	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090201-XS-NB.DWG
LAYOUT NAME - NB 33

PLOT DATE : 10/25/2022 5:13 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

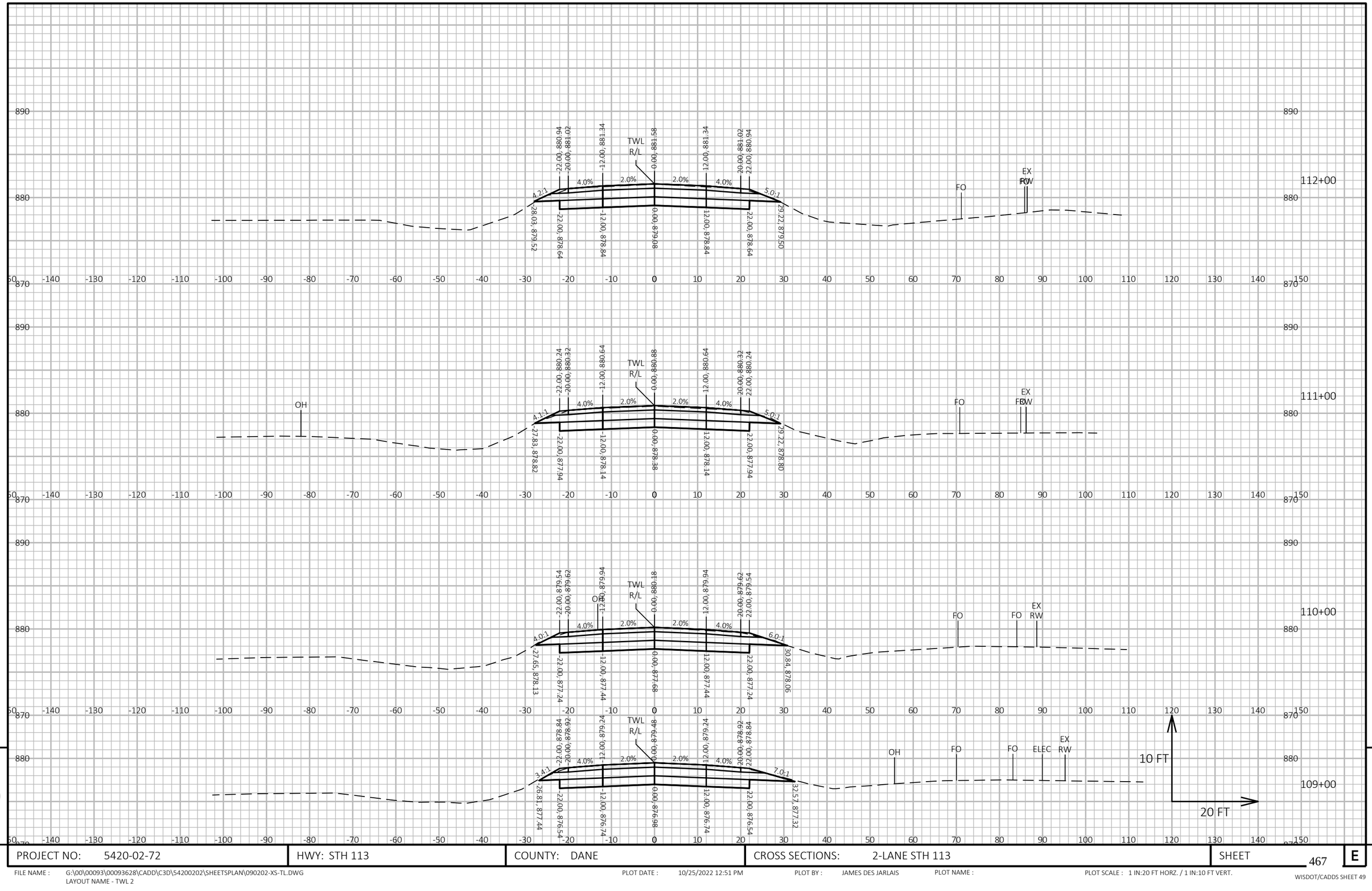
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: 2-LANE STH 113	SHEET 466	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090202-XS-TL.DWG
LAYOUT NAME - TWL 1

PLOT DATE : 10/25/2022 12:51 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

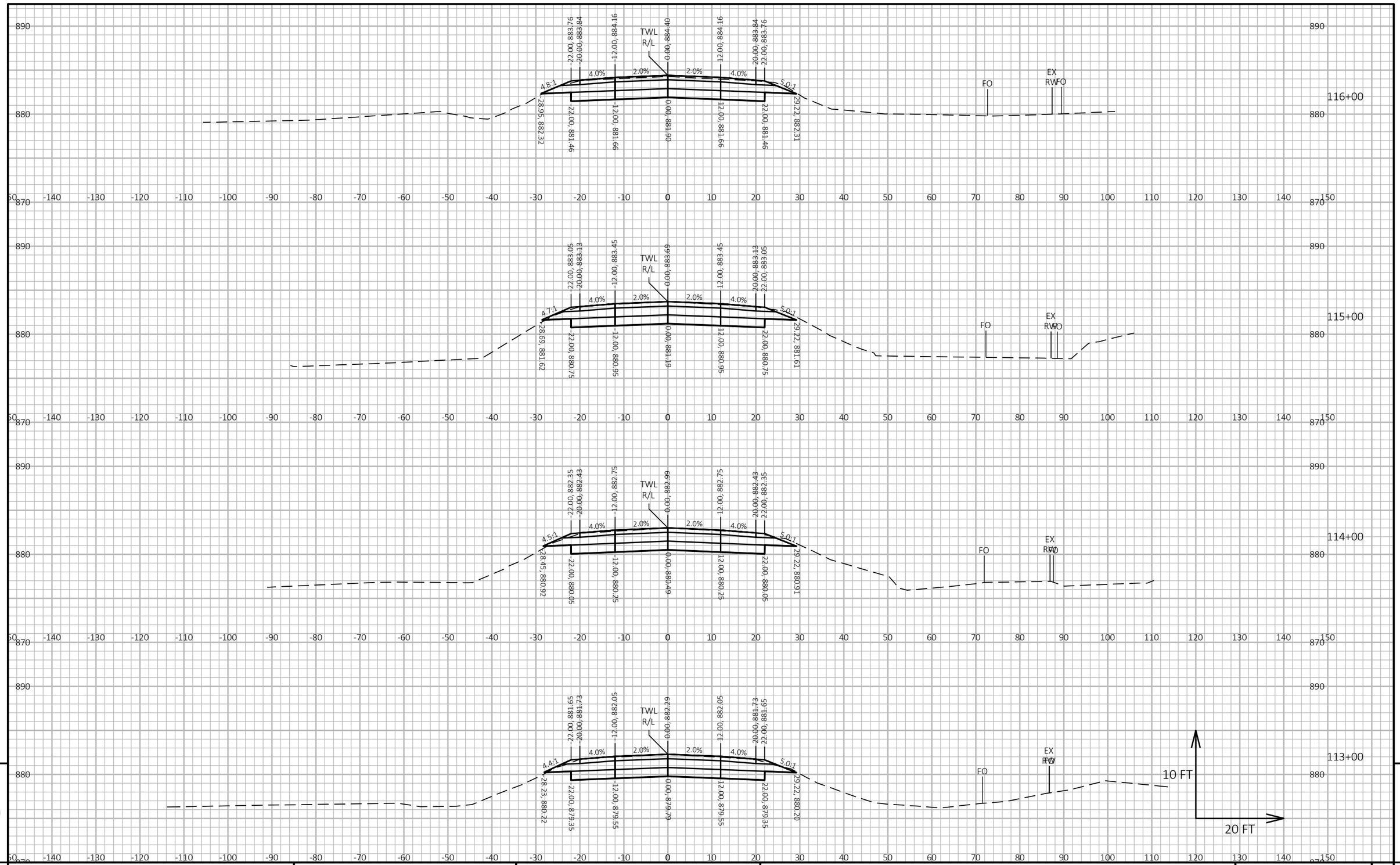
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: 2-LANE STH 113	SHEET 467	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090202-XS-TL.DWG
LAYOUT NAME - TWL 2

PLOT DATE : 10/25/2022 12:51 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

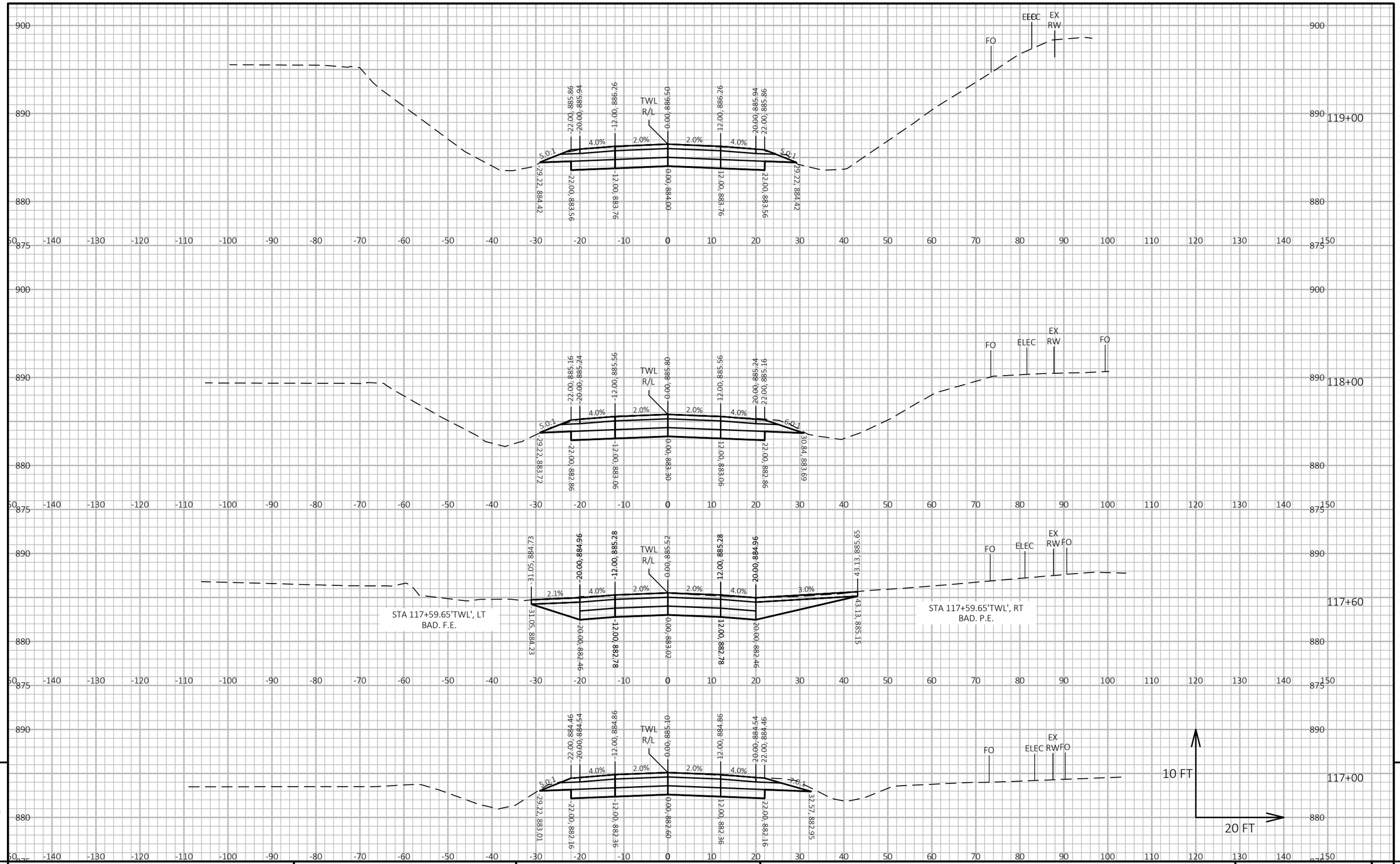


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: 2-LANE STH 113	SHEET 468 E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090202-XS-TL.DWG
LAYOUT NAME - TWL 3

PLOT DATE : 10/25/2022 12:51 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

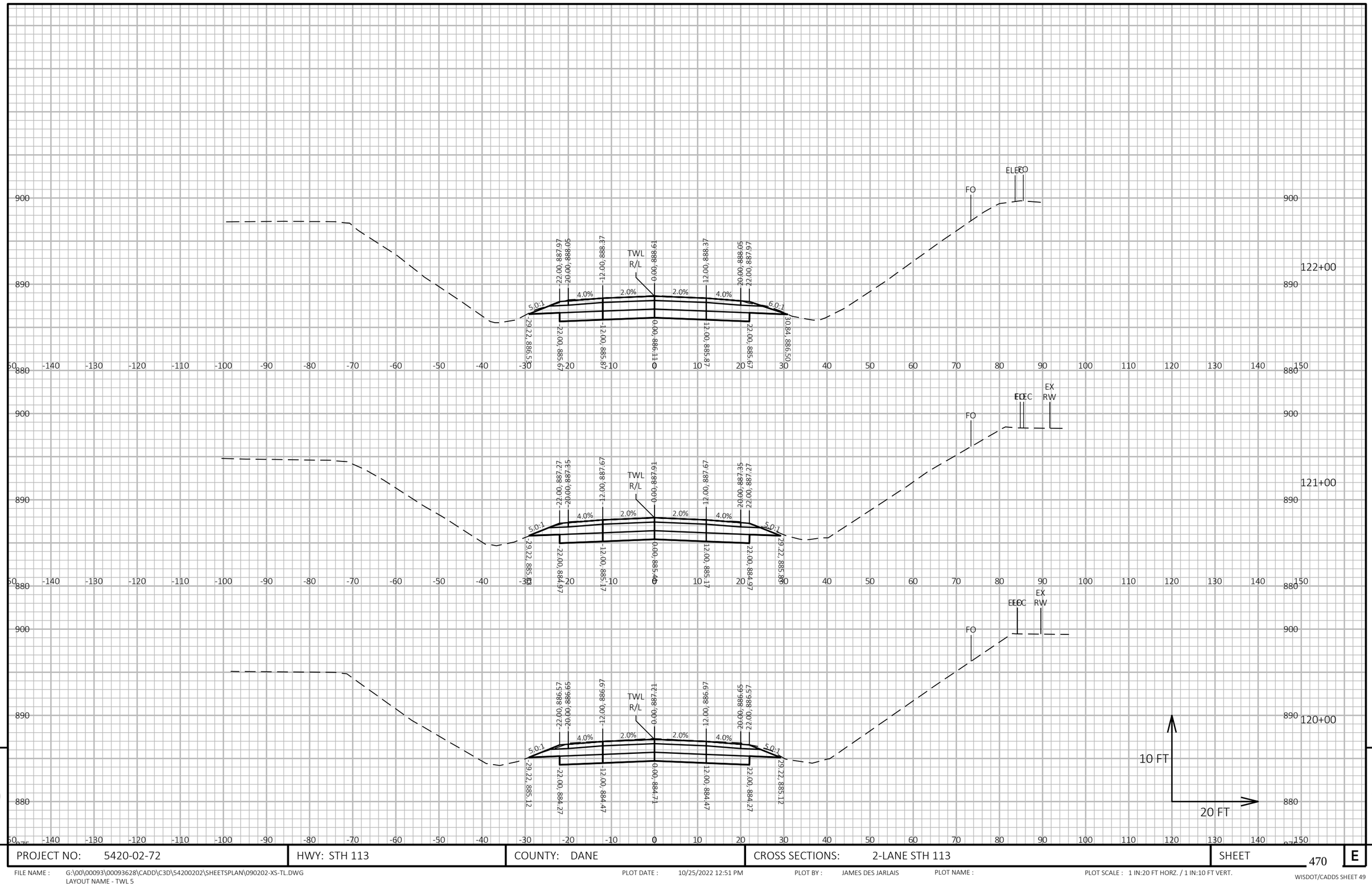


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: 2-LANE STH 113	SHEET 469 E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090202-XS-TL.DWG
LAYOUT NAME - TWL 4

PLOT DATE : 10/25/2022 12:51 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

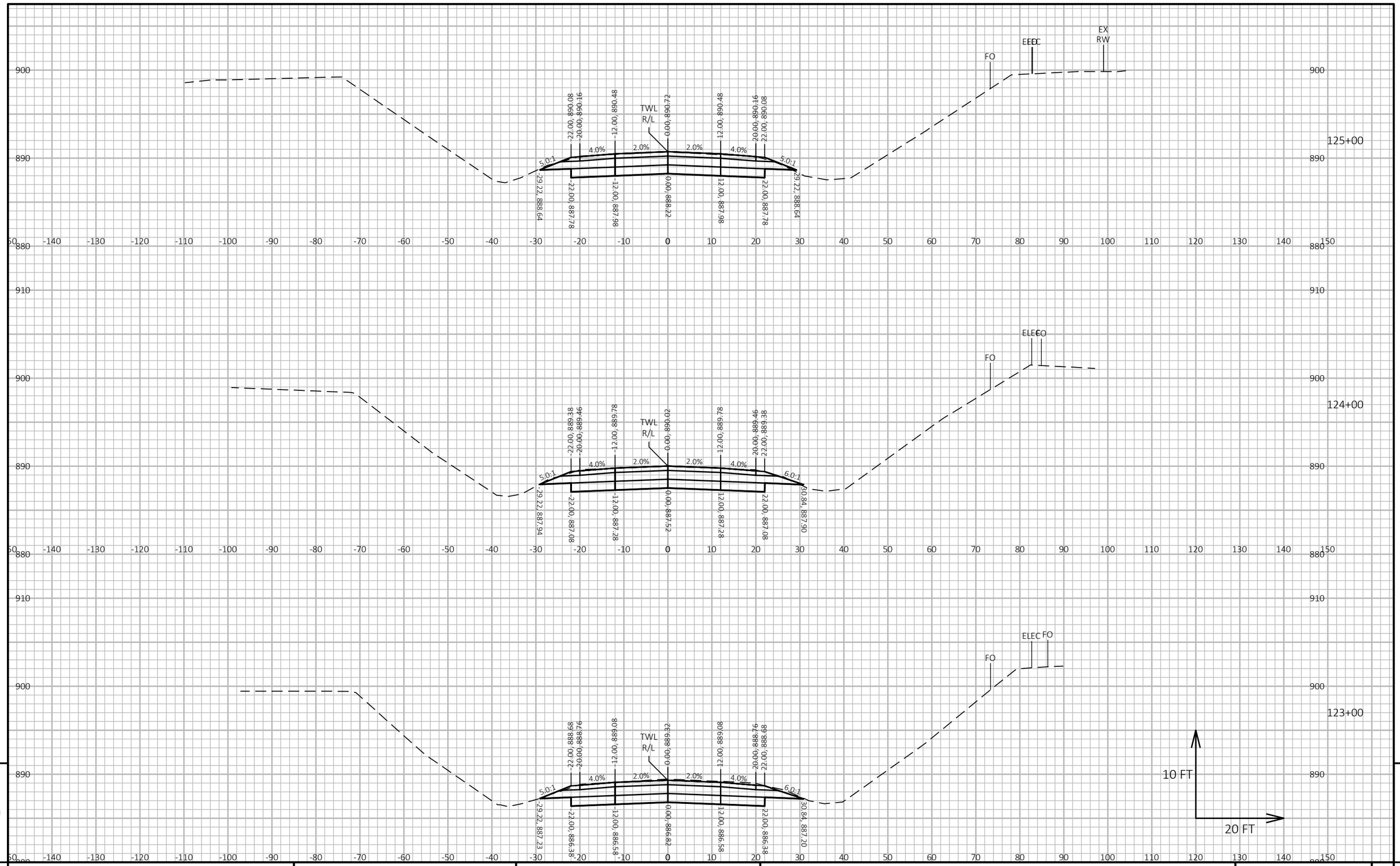


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: 2-LANE STH 113	SHEET 470	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090202-XS-TL.DWG
LAYOUT NAME - TWL 5

PLOT DATE : 10/25/2022 12:51 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: 2-LANE STH 113	SHEET 471	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090202-XS-TL.DWG
LAYOUT NAME - TWL 6

PLOT DATE : 10/25/2022 12:52 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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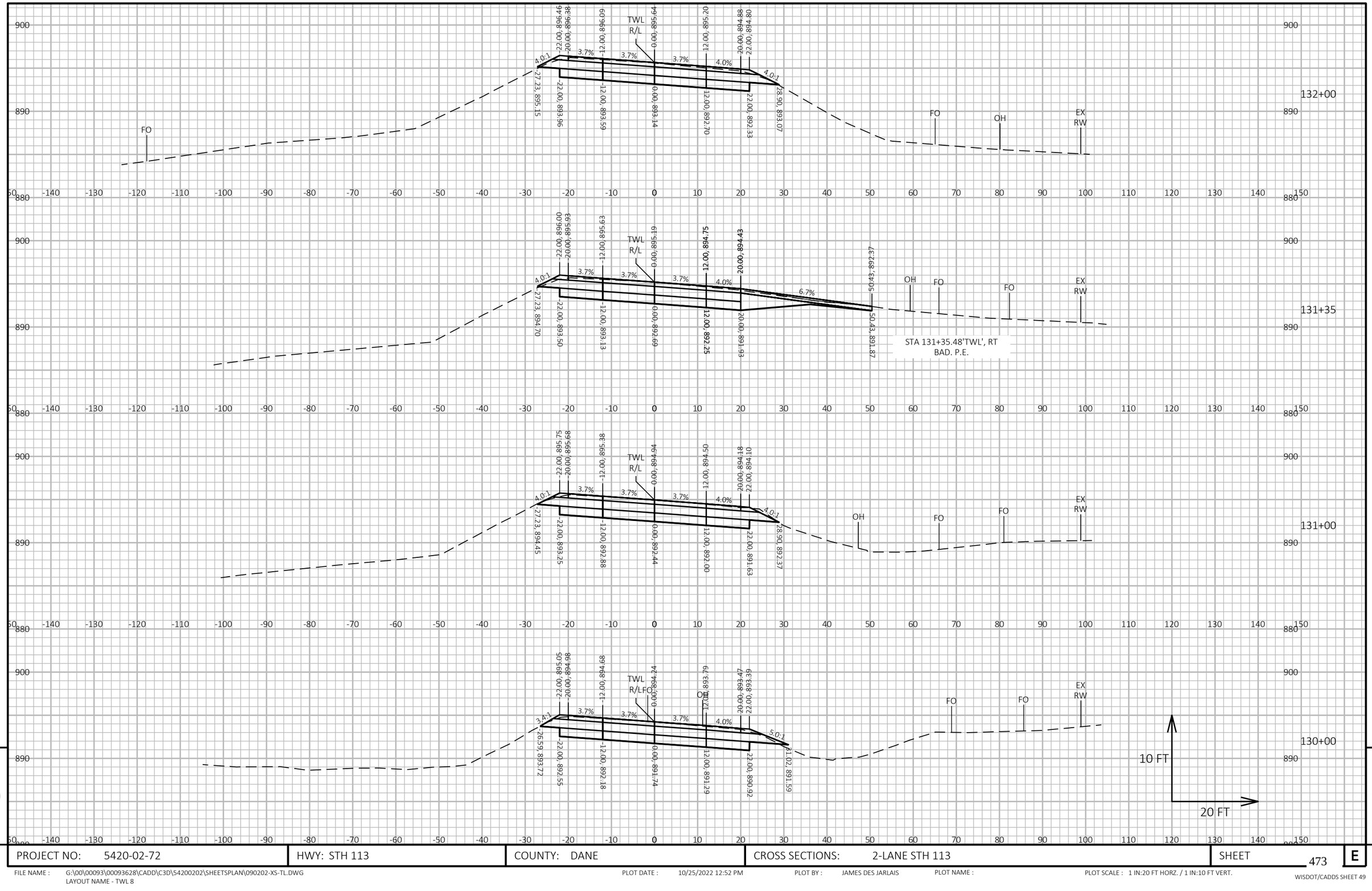
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: 2-LANE STH 113	SHEET 472	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090202-XS-TL.DWG
LAYOUT NAME - TWL 7

PLOT DATE : 10/25/2022 12:52 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

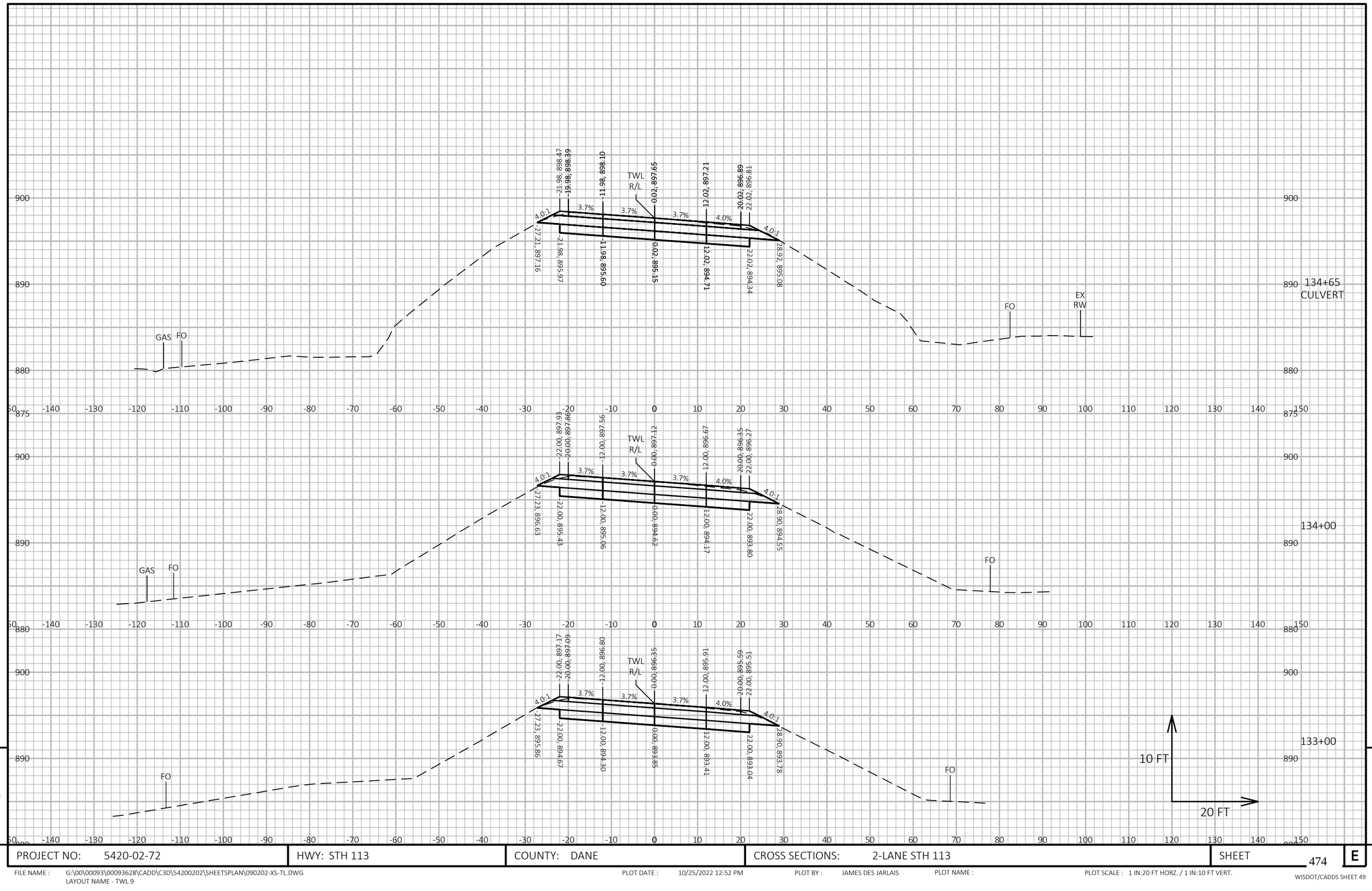


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: 2-LANE STH 113	SHEET 473	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090202-XS-TL.DWG
LAYOUT NAME - TWL 8

PLOT DATE : 10/25/2022 12:52 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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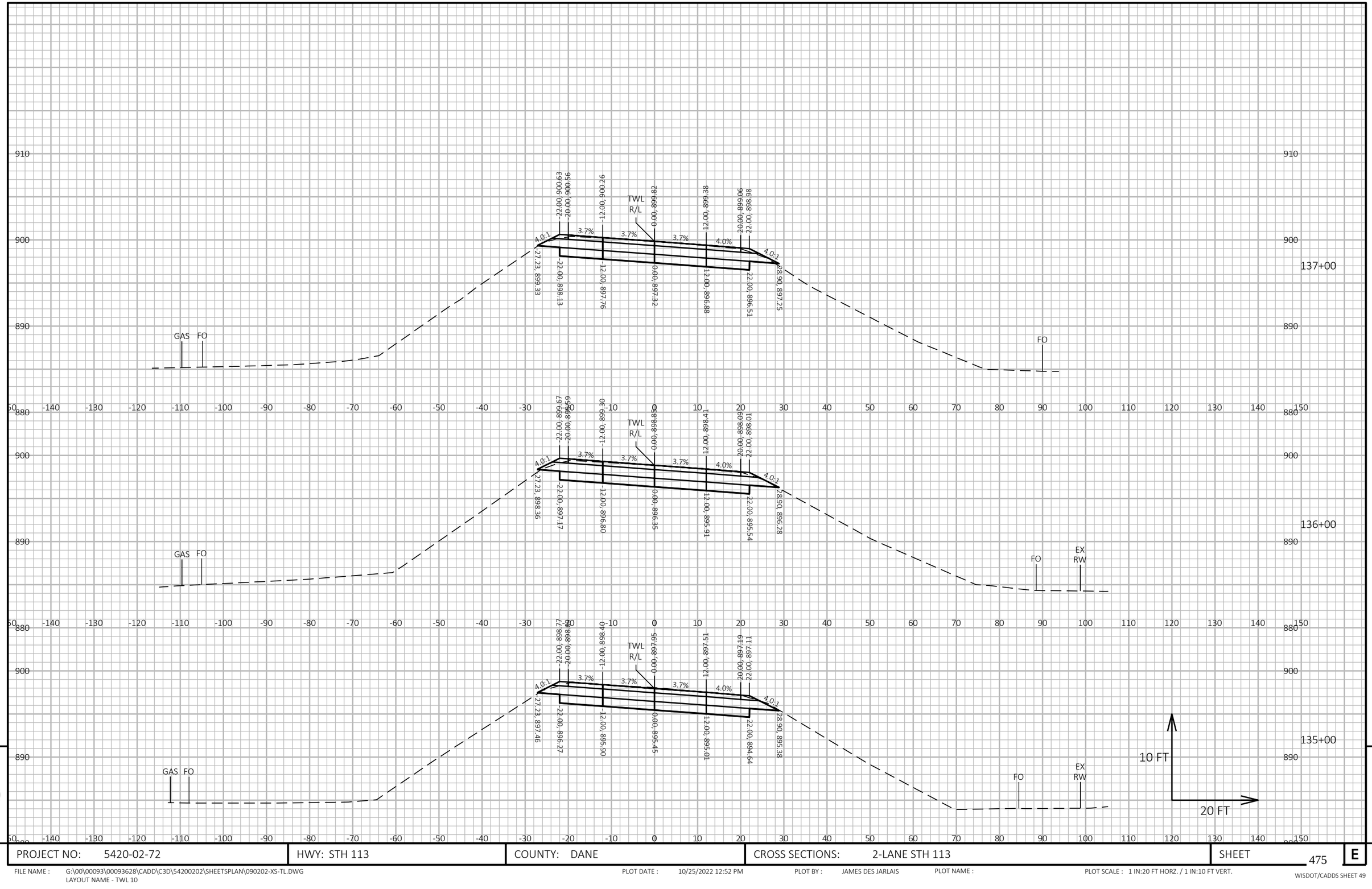
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: 2-LANE STH 113	SHEET 474	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090202-XS-TL.DWG
LAYOUT NAME - TWL 9

PLOT DATE : 10/25/2022 12:52 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



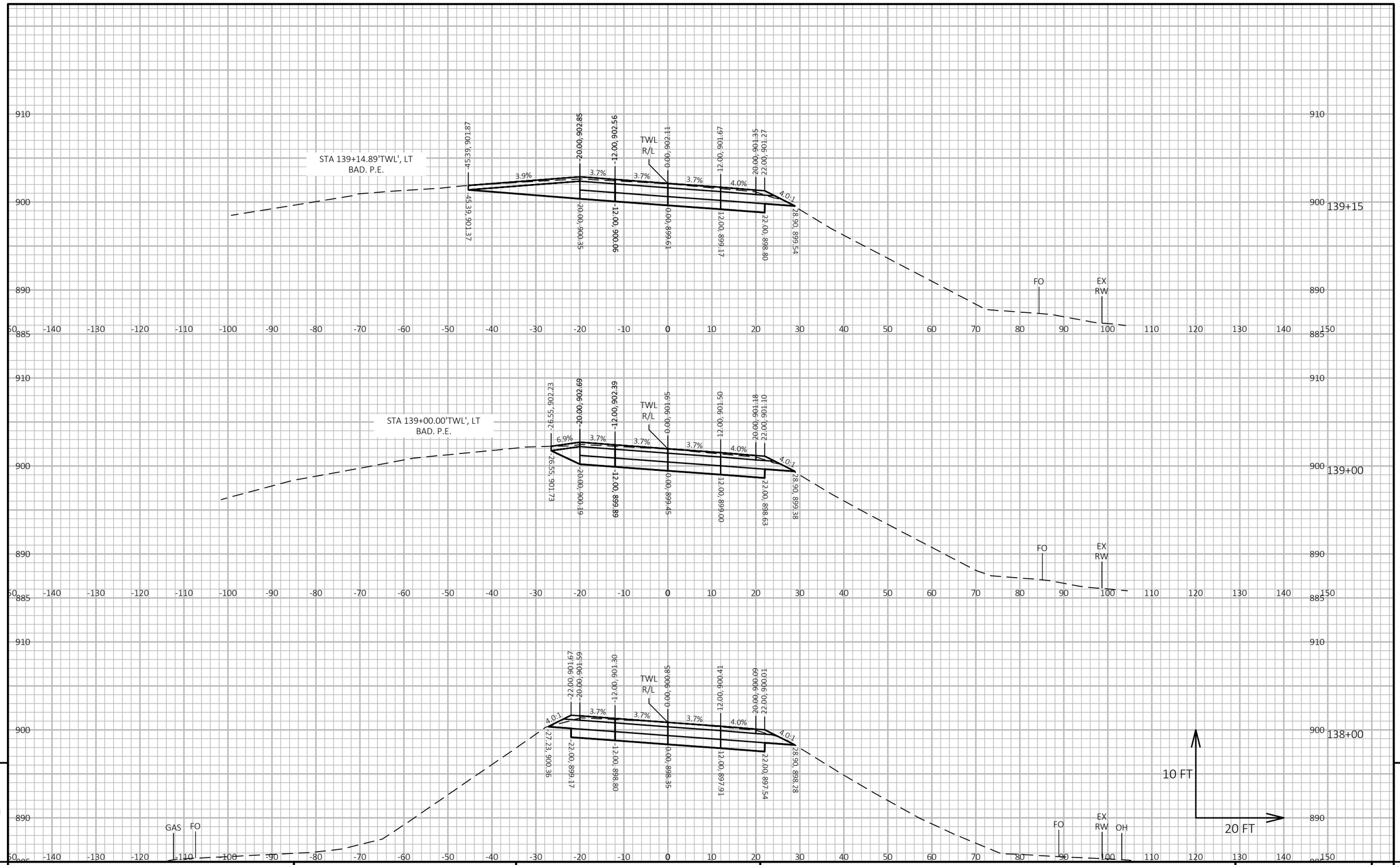
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: 2-LANE STH 113	SHEET 475	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090202-XS-TL.DWG
LAYOUT NAME - TWL 10

PLOT DATE : 10/25/2022 12:52 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



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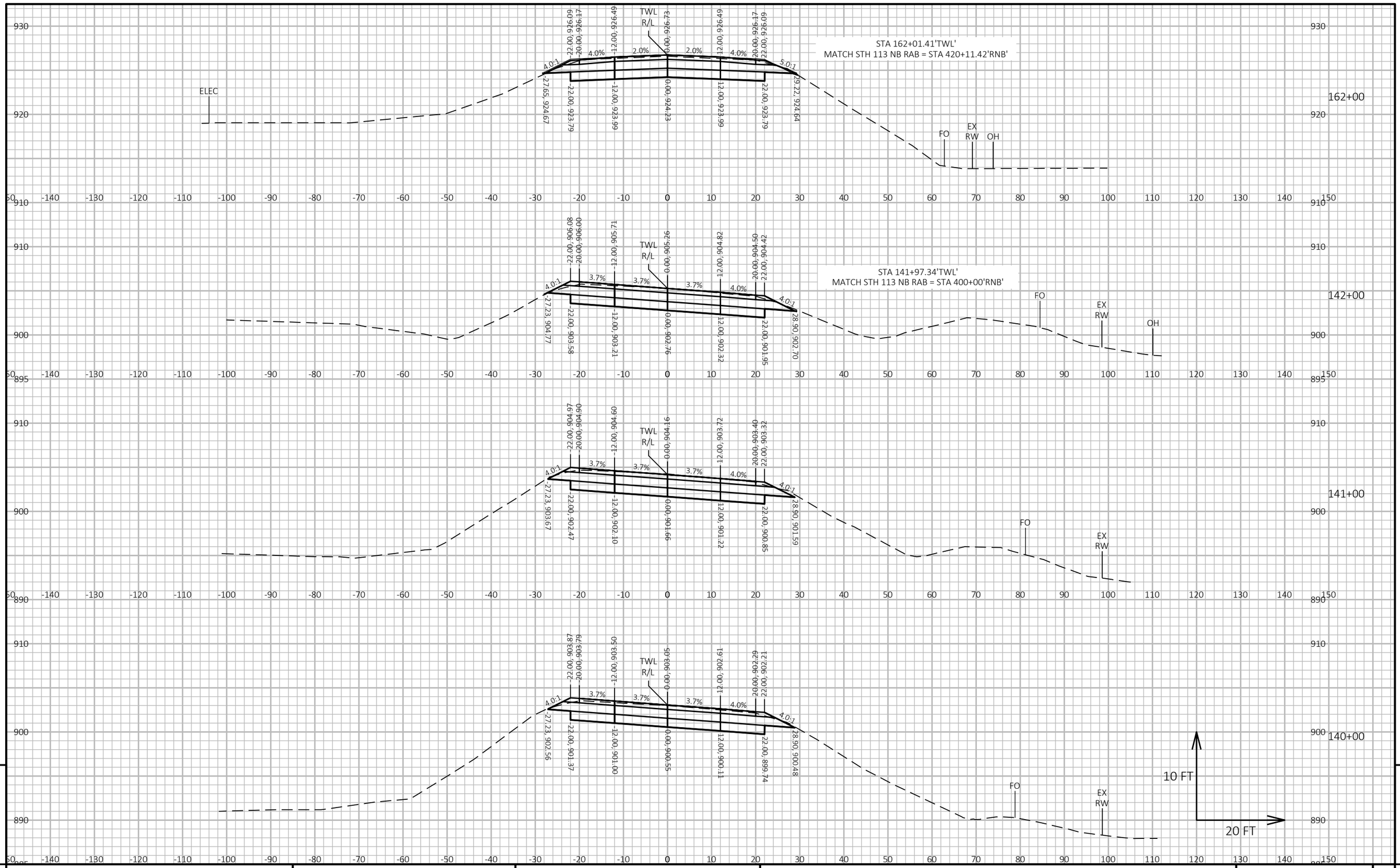
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: 2-LANE STH 113	SHEET 476	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090202-XS-TL.DWG
LAYOUT NAME - TWL 11

PLOT DATE : 10/25/2022 12:52 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

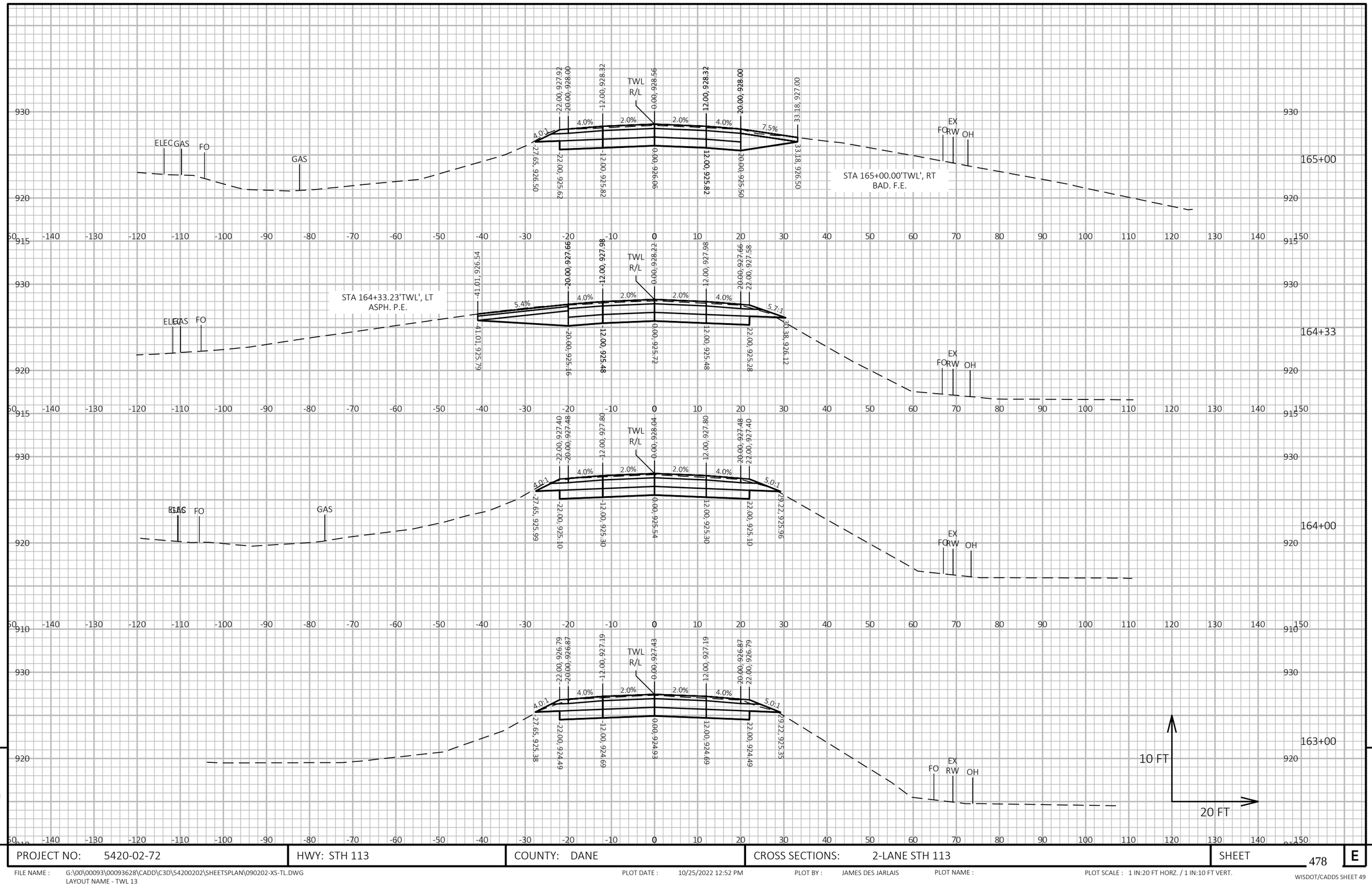


9 9

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: 2-LANE STH 113	SHEET 477	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090202-XS-TL.DWG
LAYOUT NAME - TWL 12

PLOT DATE : 10/25/2022 12:52 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

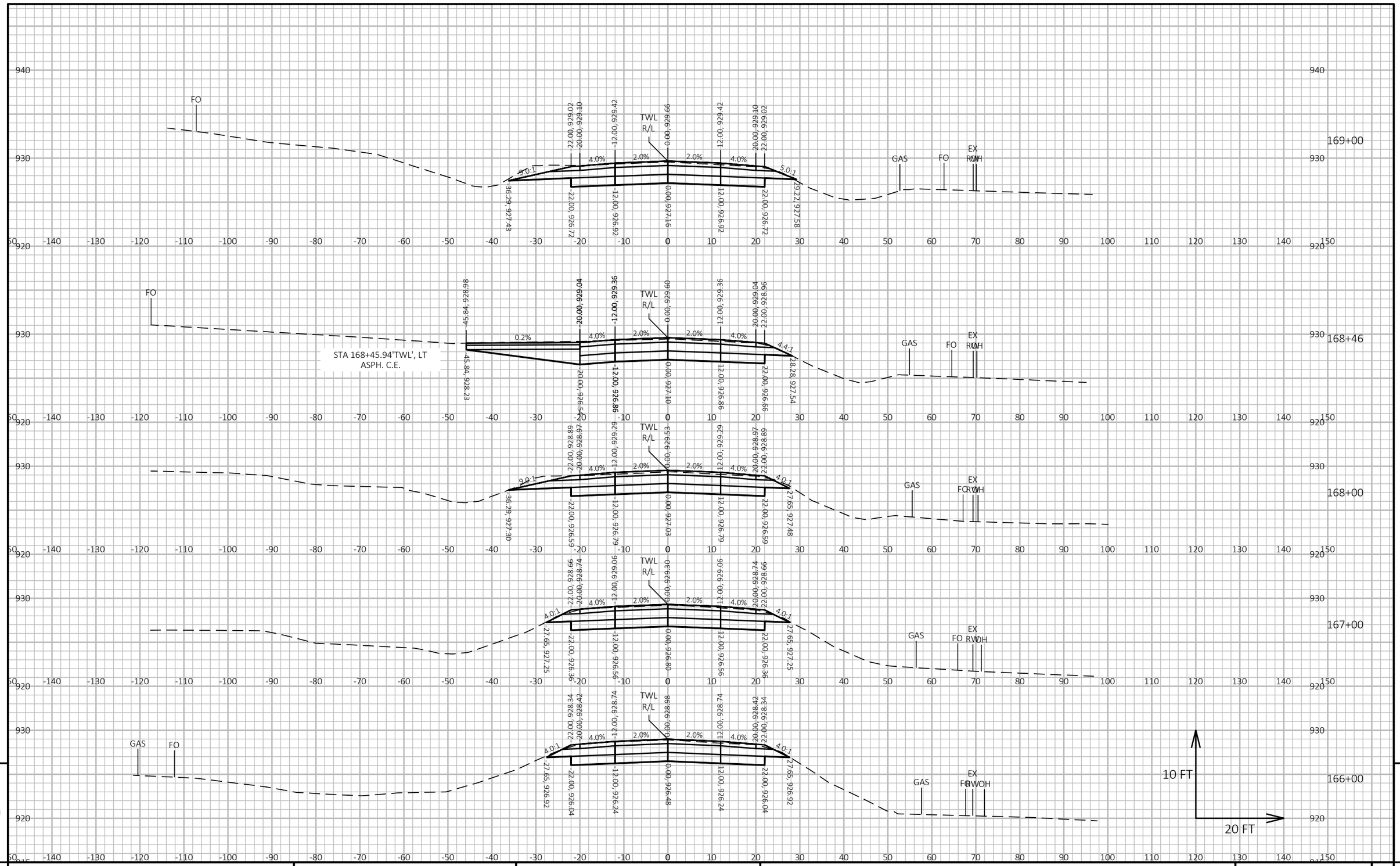


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: 2-LANE STH 113	SHEET 478	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090202-XS-TL.DWG
LAYOUT NAME - TWL 13

PLOT DATE : 10/25/2022 12:52 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

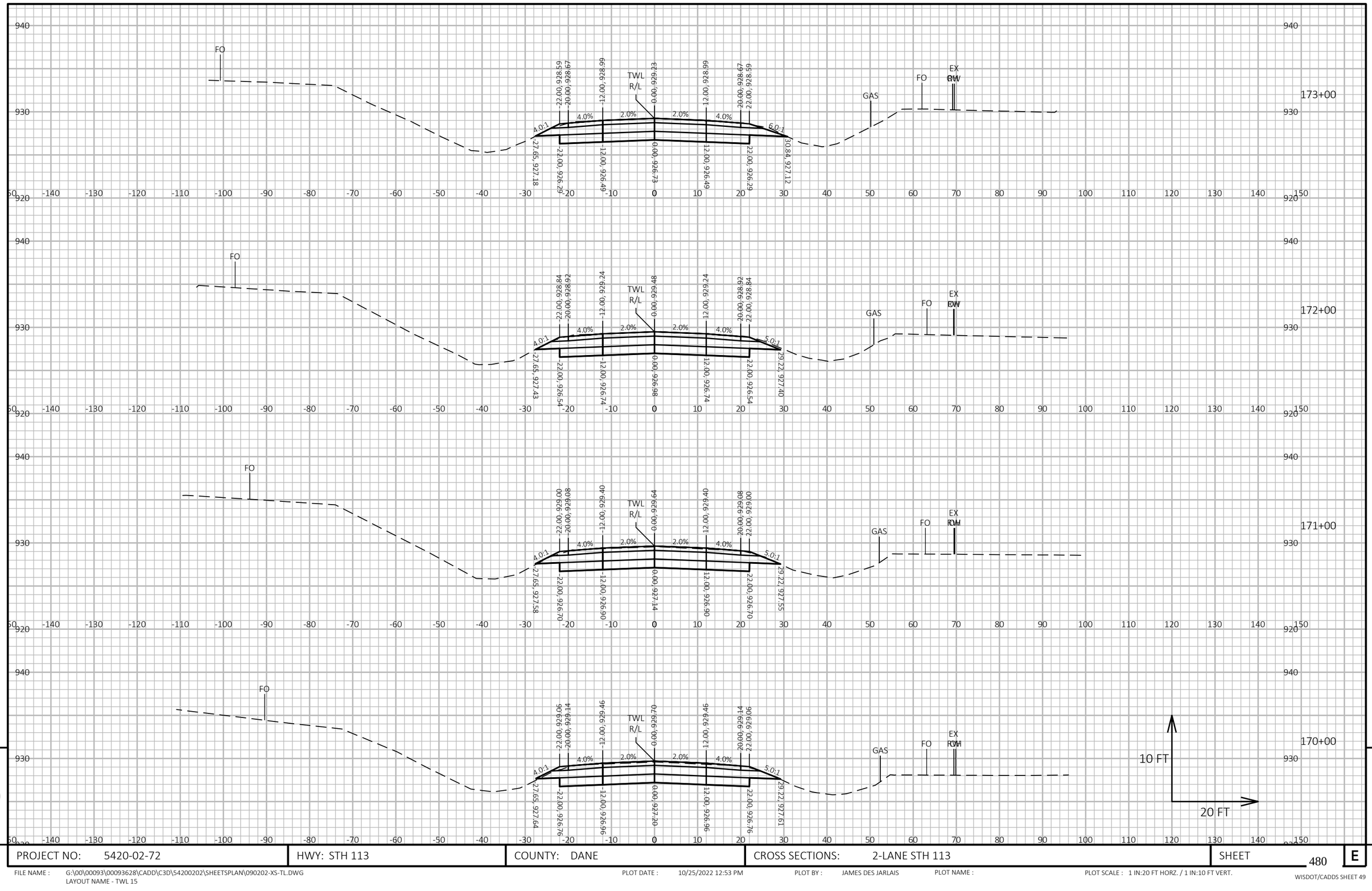
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: 2-LANE STH 113	SHEET 479	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090202-XS-TL.DWG
LAYOUT NAME - TWL 14

PLOT DATE : 10/25/2022 12:53 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

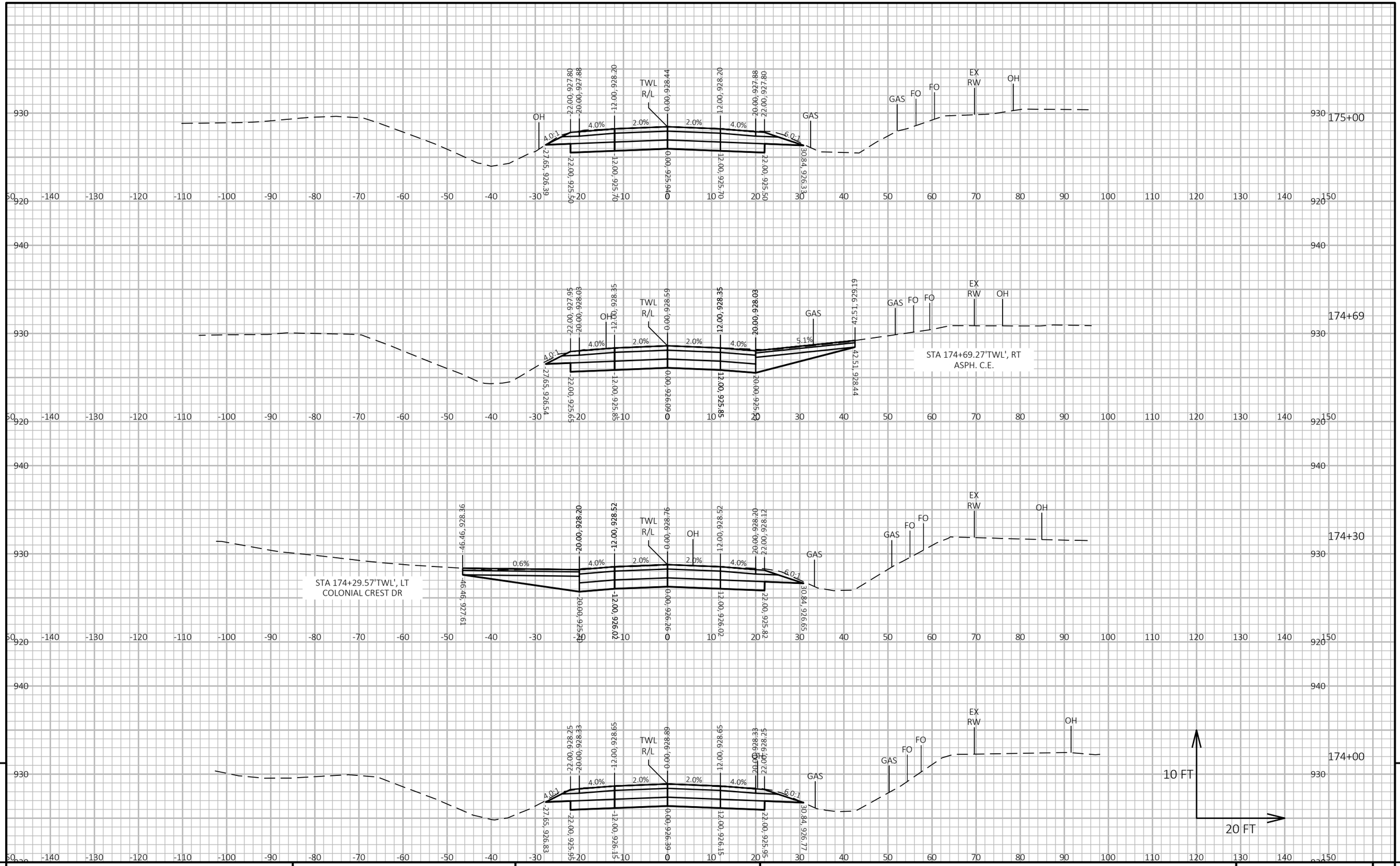
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: 2-LANE STH 113	SHEET 480	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090202-XS-TL.DWG
LAYOUT NAME - TWL 15

PLOT DATE : 10/25/2022 12:53 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

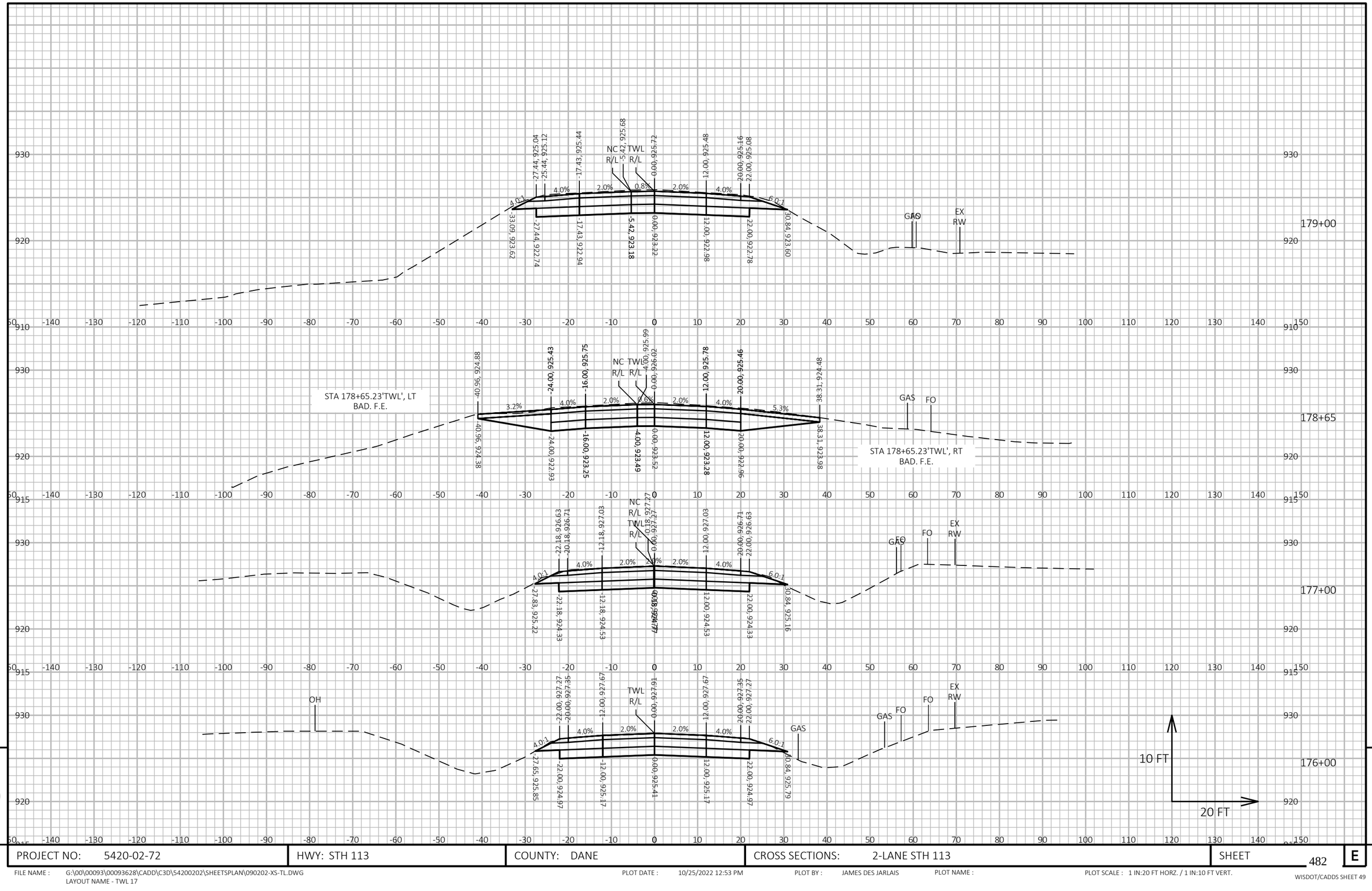


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: 2-LANE STH 113	SHEET 481	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090202-XS-TL.DWG
LAYOUT NAME - TWL 16

PLOT DATE : 10/25/2022 12:53 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

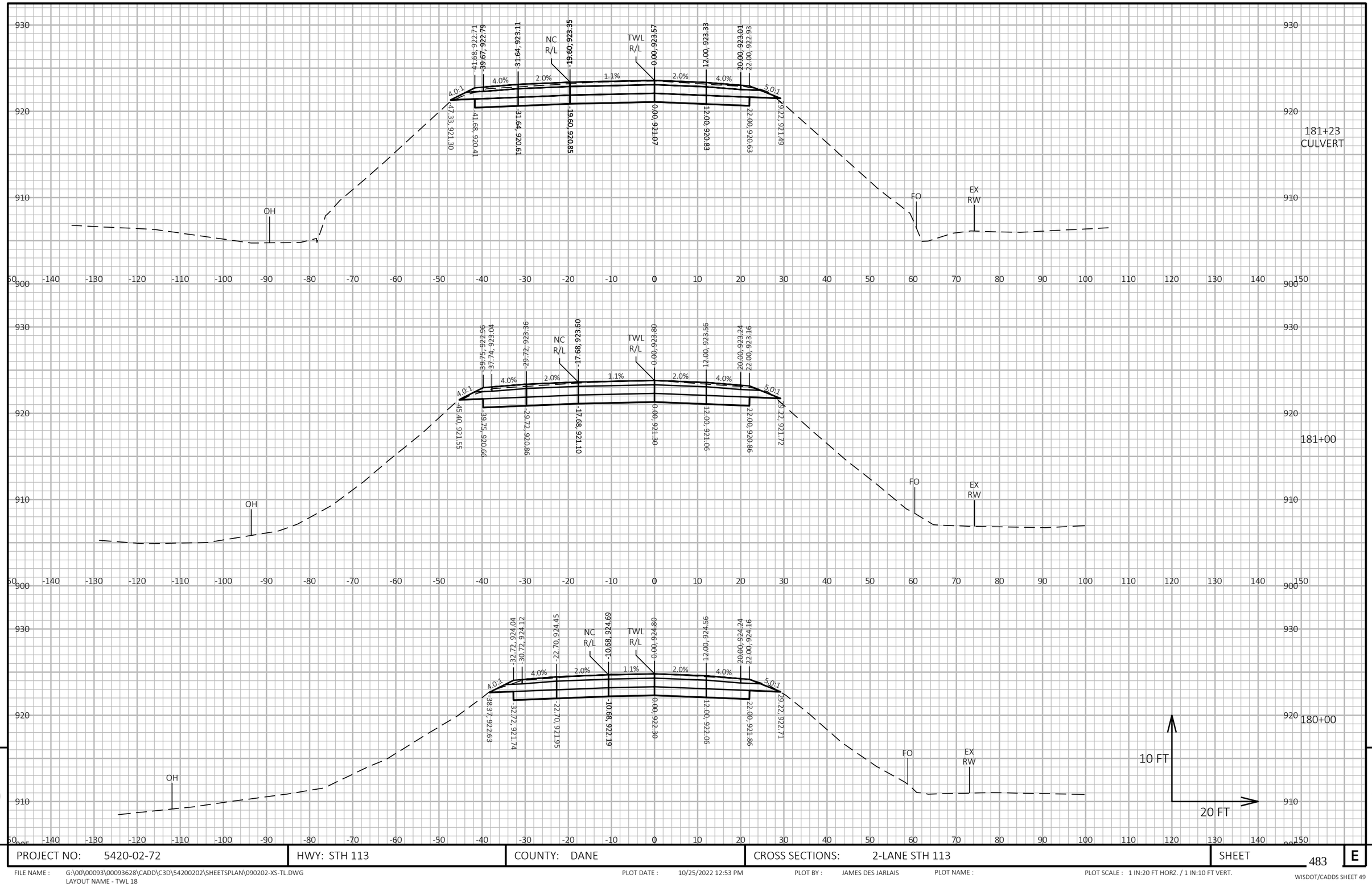
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: 2-LANE STH 113	SHEET 482	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090202-XS-TL.DWG
LAYOUT NAME - TWL 17

PLOT DATE : 10/25/2022 12:53 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

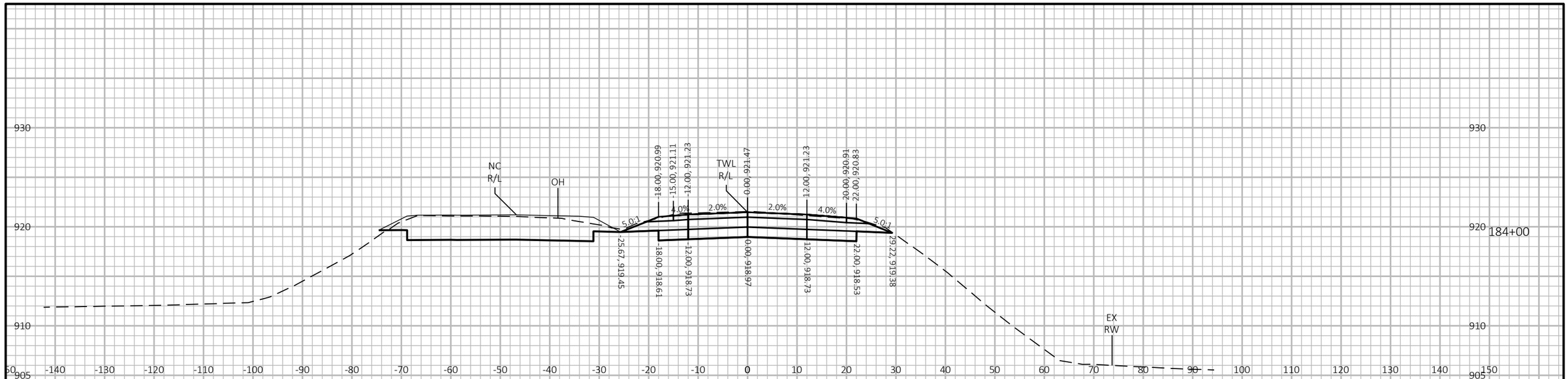


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: 2-LANE STH 113	SHEET 483 E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090202-XS-TL.DWG
LAYOUT NAME - TWL 18

PLOT DATE : 10/25/2022 12:53 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

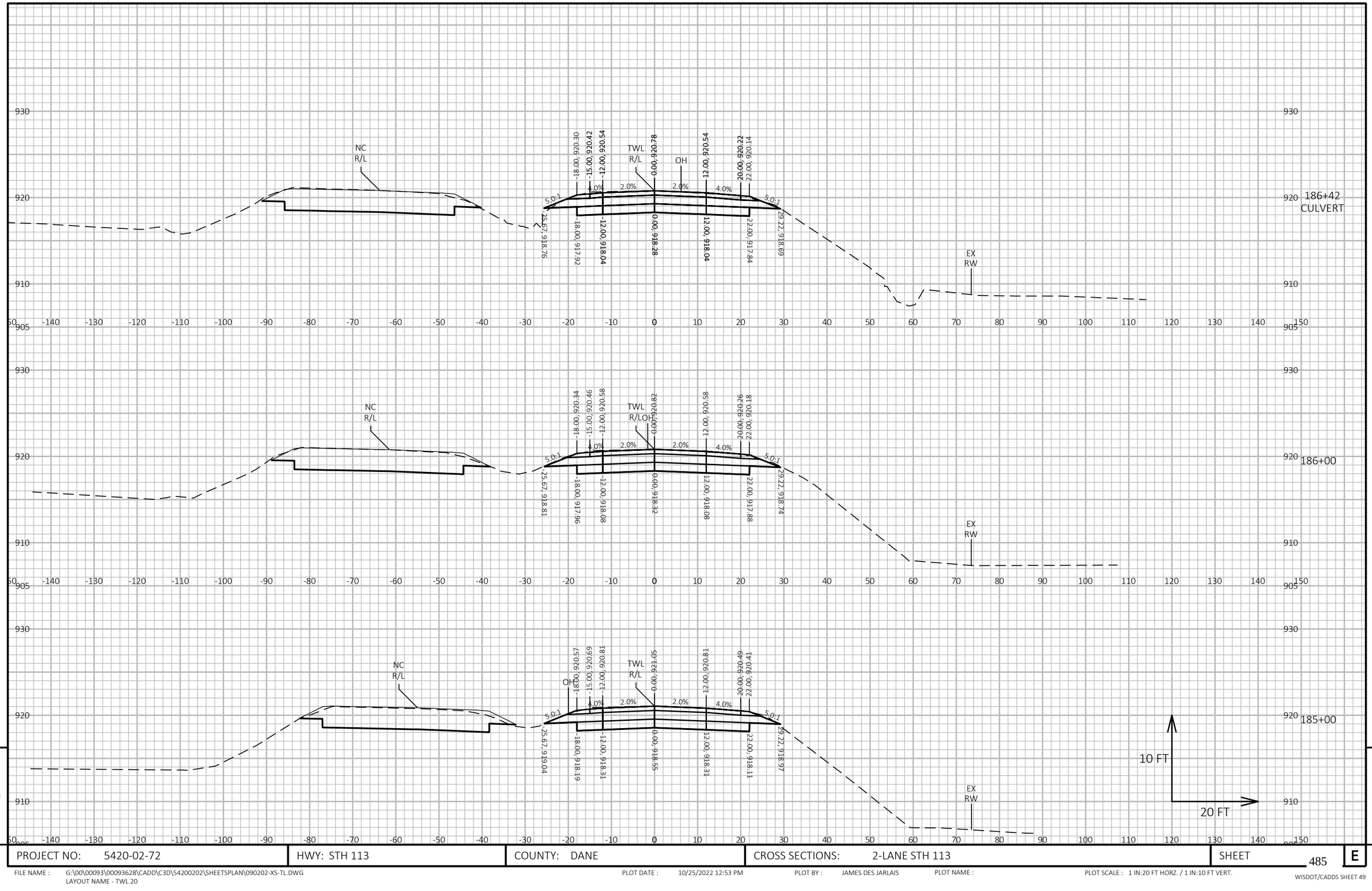
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: 2-LANE STH 113	SHEET 484	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090202-XS-TL.DWG
LAYOUT NAME - TWL 19

PLOT DATE : 10/25/2022 12:53 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

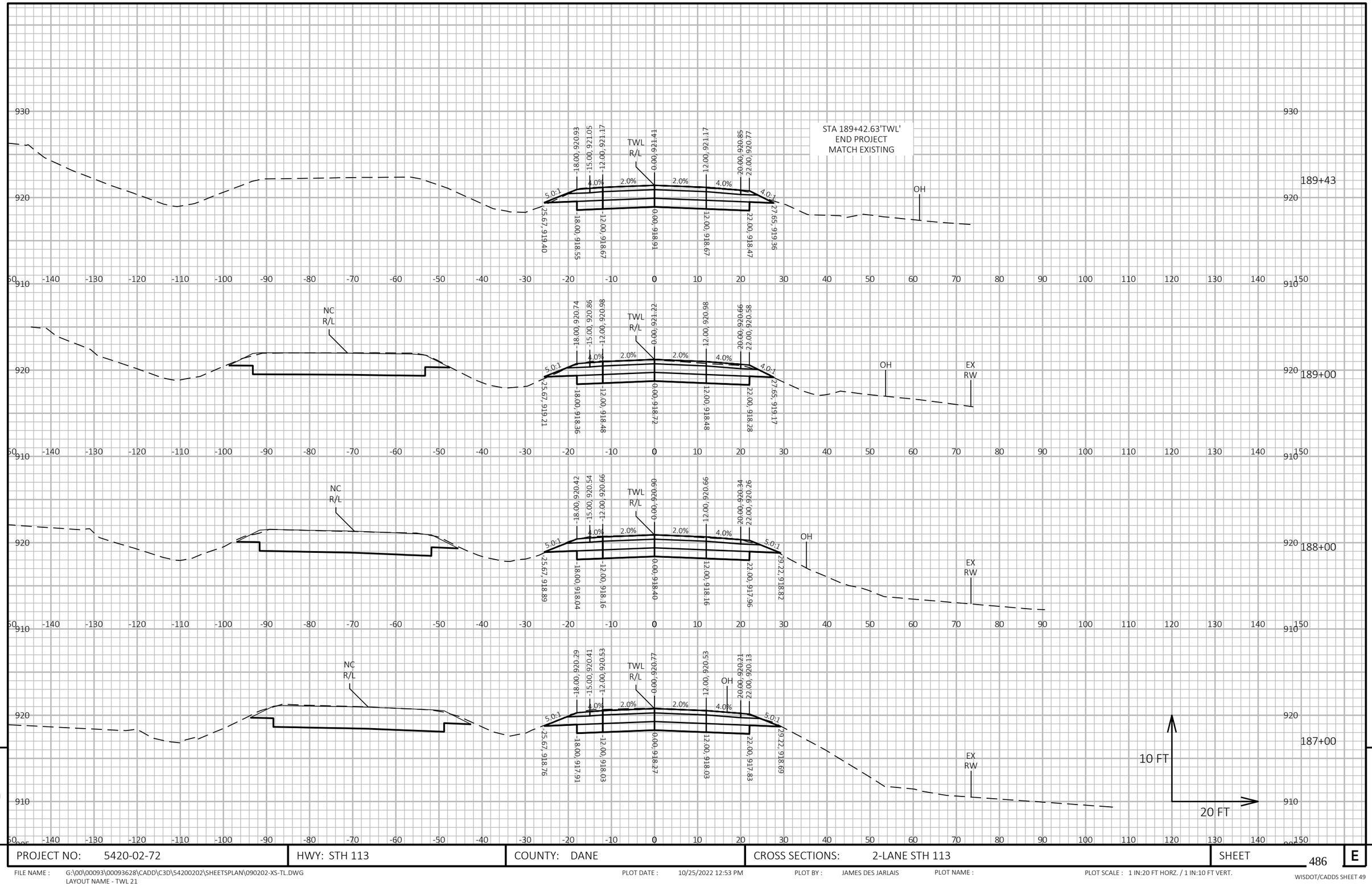
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: 2-LANE STH 113	SHEET 485	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090202-XS-TL.DWG
LAYOUT NAME - TWL 20

PLOT DATE : 10/25/2022 12:53 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

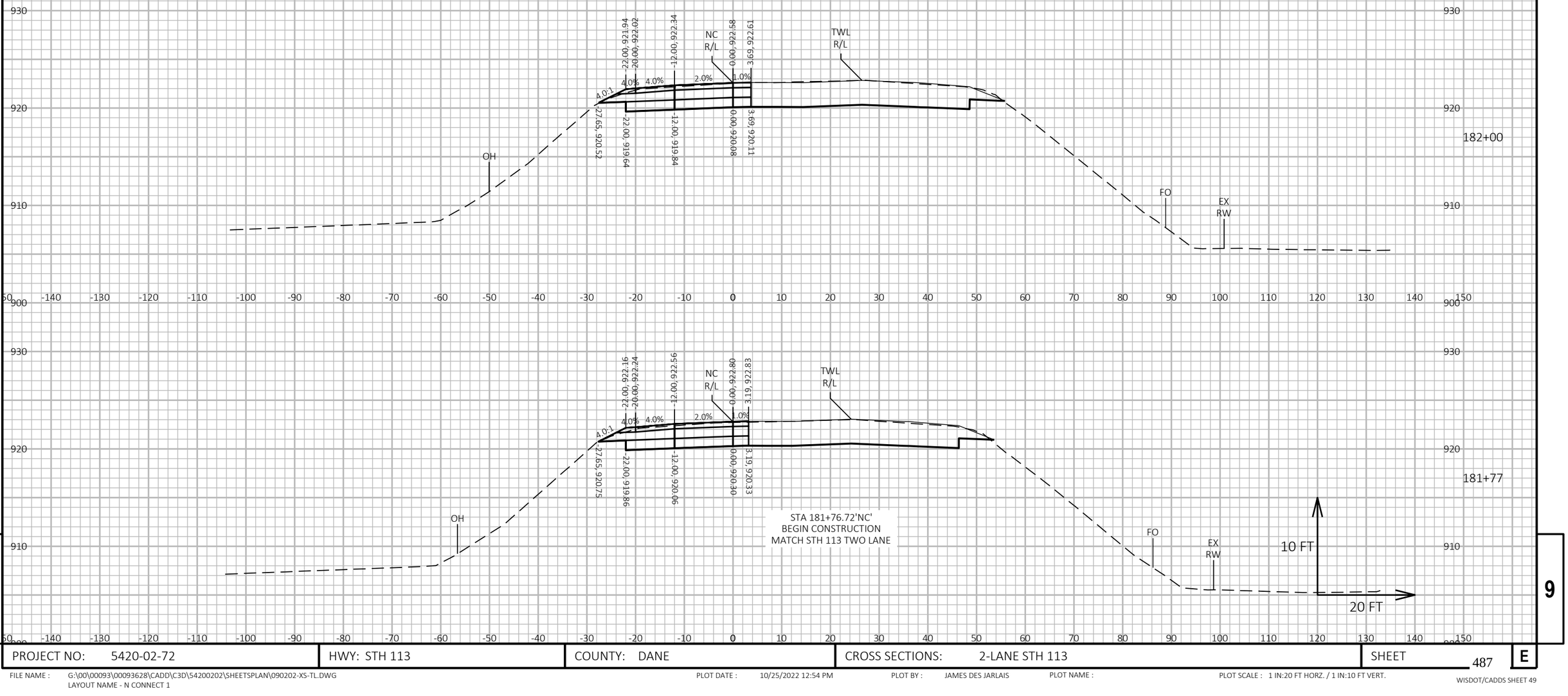
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: 2-LANE STH 113	SHEET 486	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090202-XS-TL.DWG
LAYOUT NAME - TWL 21

PLOT DATE : 10/25/2022 12:53 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

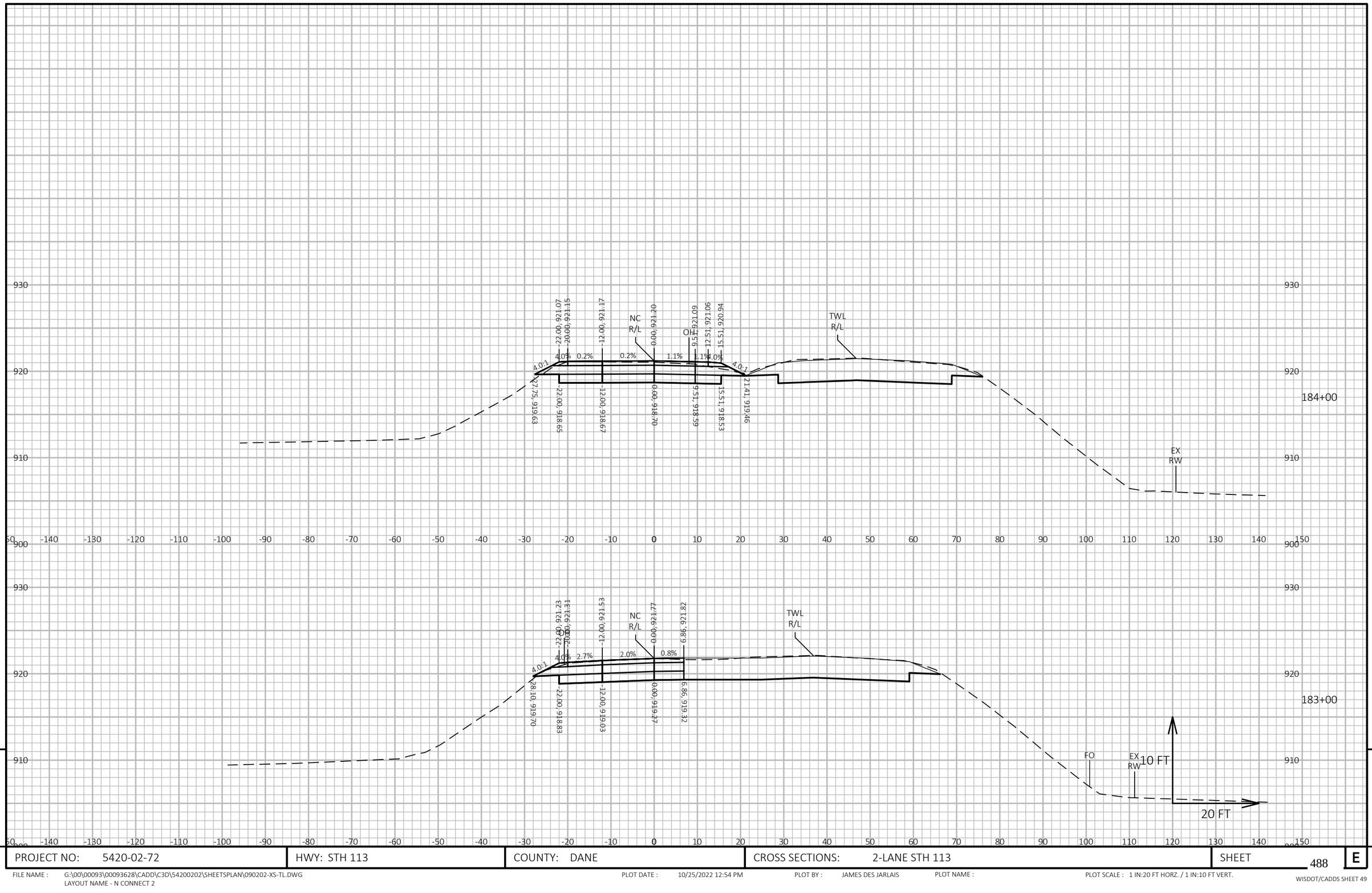
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: 2-LANE STH 113	SHEET 487	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090202-XS-TL.DWG
LAYOUT NAME - N CONNECT 1

PLOT DATE : 10/25/2022 12:54 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



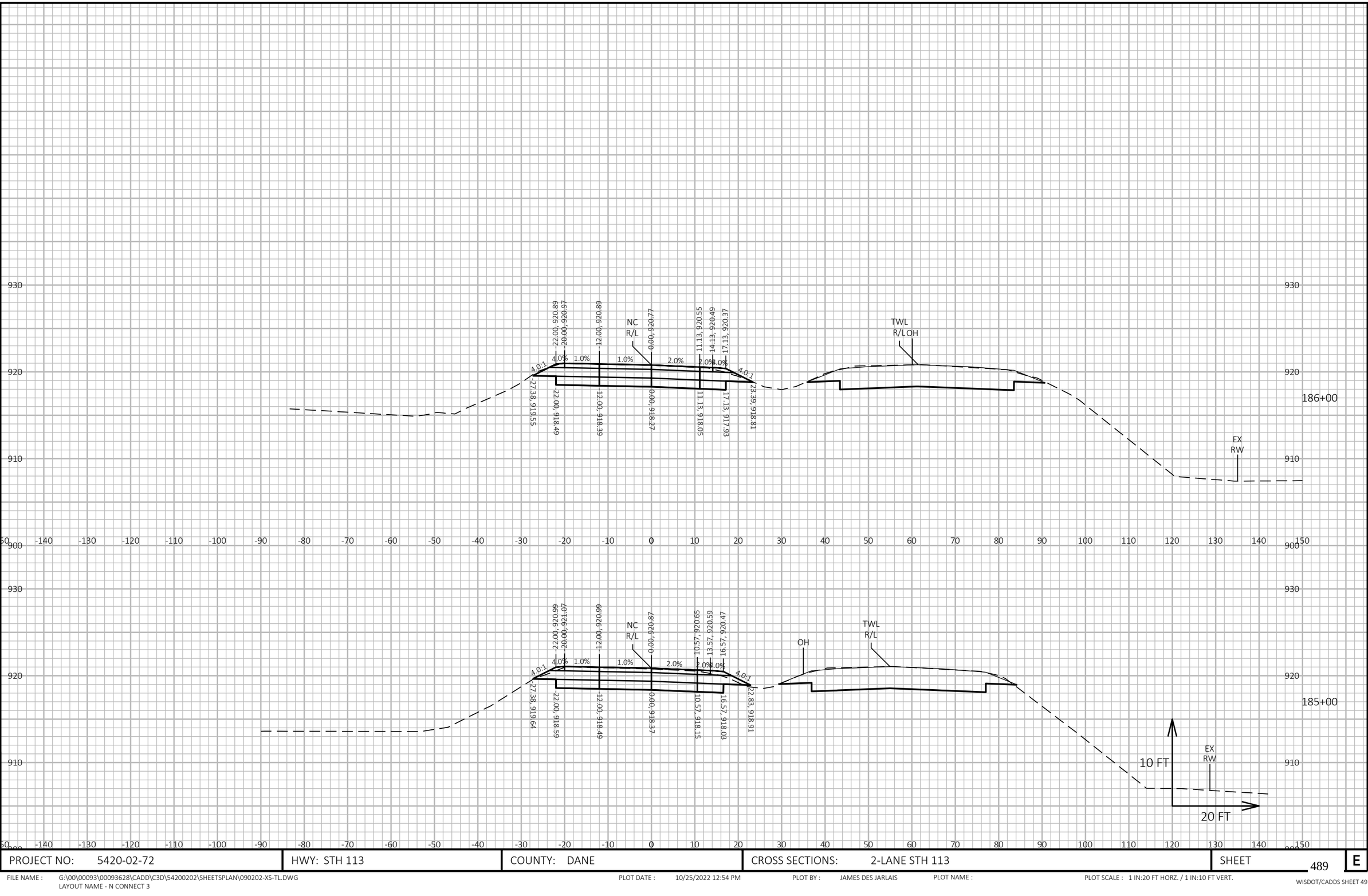
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: 2-LANE STH 113	SHEET 488	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090202-XS-TL.DWG
LAYOUT NAME - N CONNECT 2

PLOT DATE : 10/25/2022 12:54 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



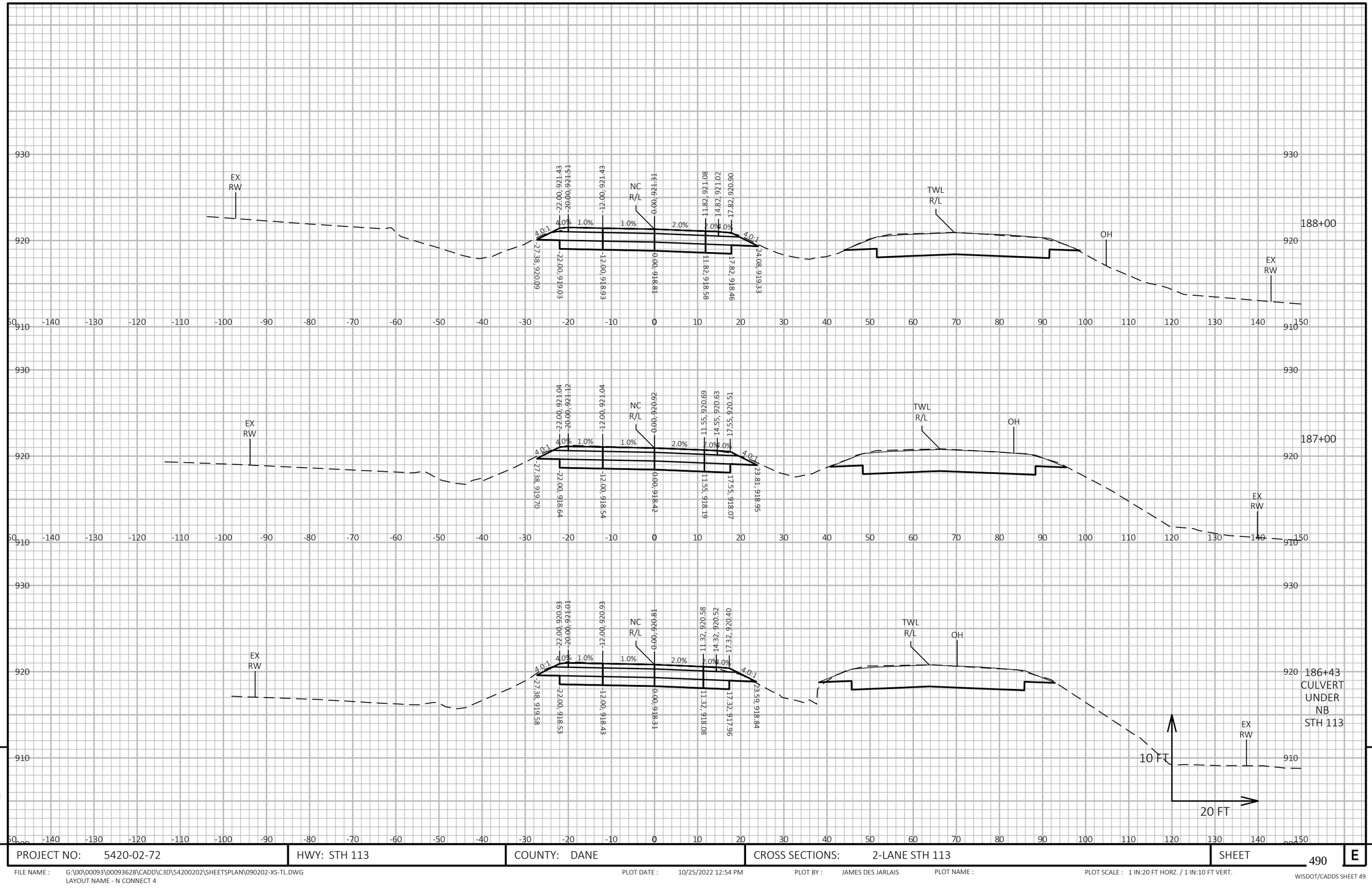
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: 2-LANE STH 113	SHEET 489	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090202-XS-TL.DWG
LAYOUT NAME - N CONNECT 3

PLOT DATE : 10/25/2022 12:54 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



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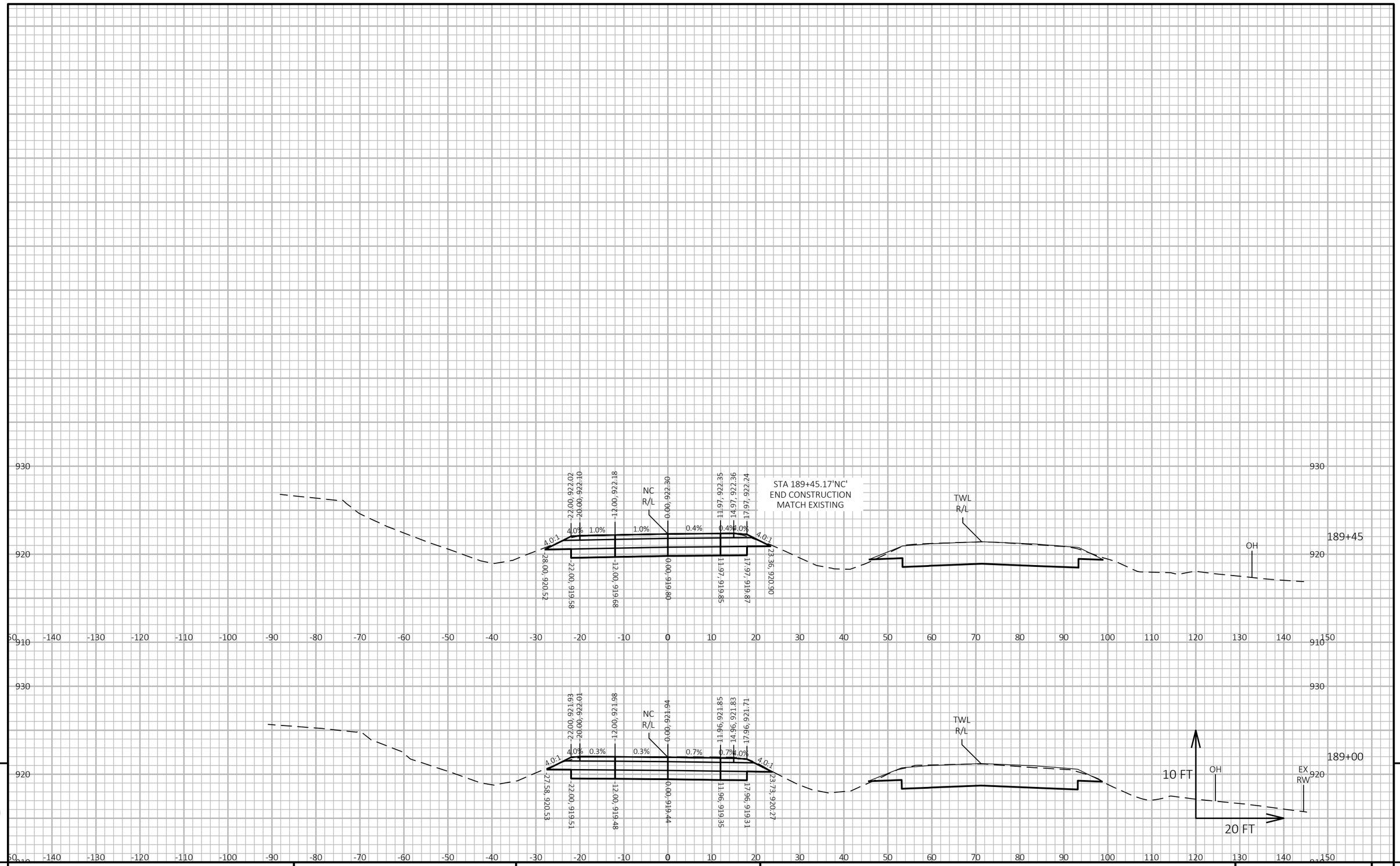
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: 2-LANE STH 113	SHEET 490	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090202-XS-TL.DWG
LAYOUT NAME - N CONNECT 4

PLOT DATE : 10/25/2022 12:54 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



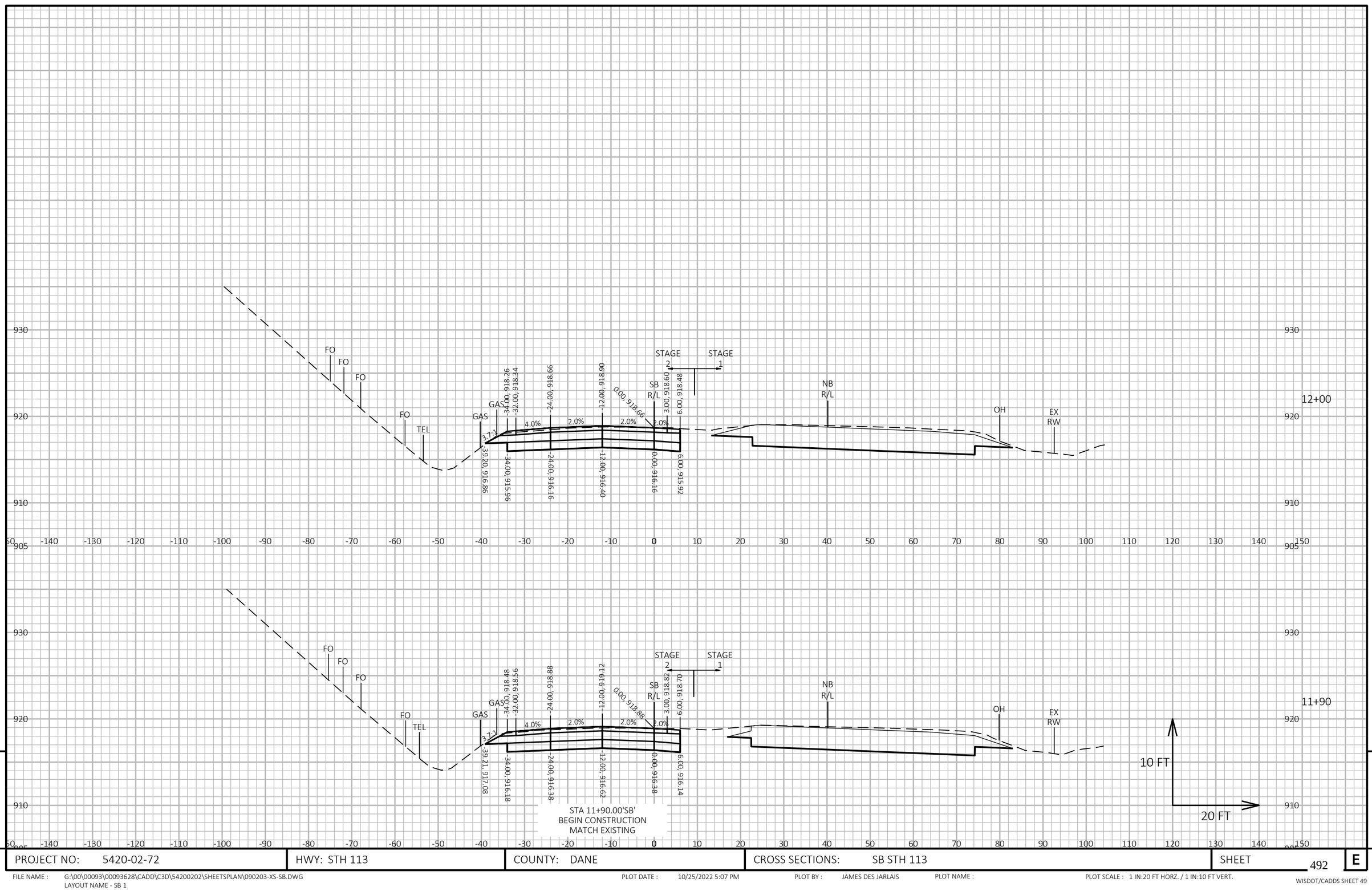
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: 2-LANE STH 113	SHEET 491	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090202-XS-TL.DWG
LAYOUT NAME - N CONNECT 5

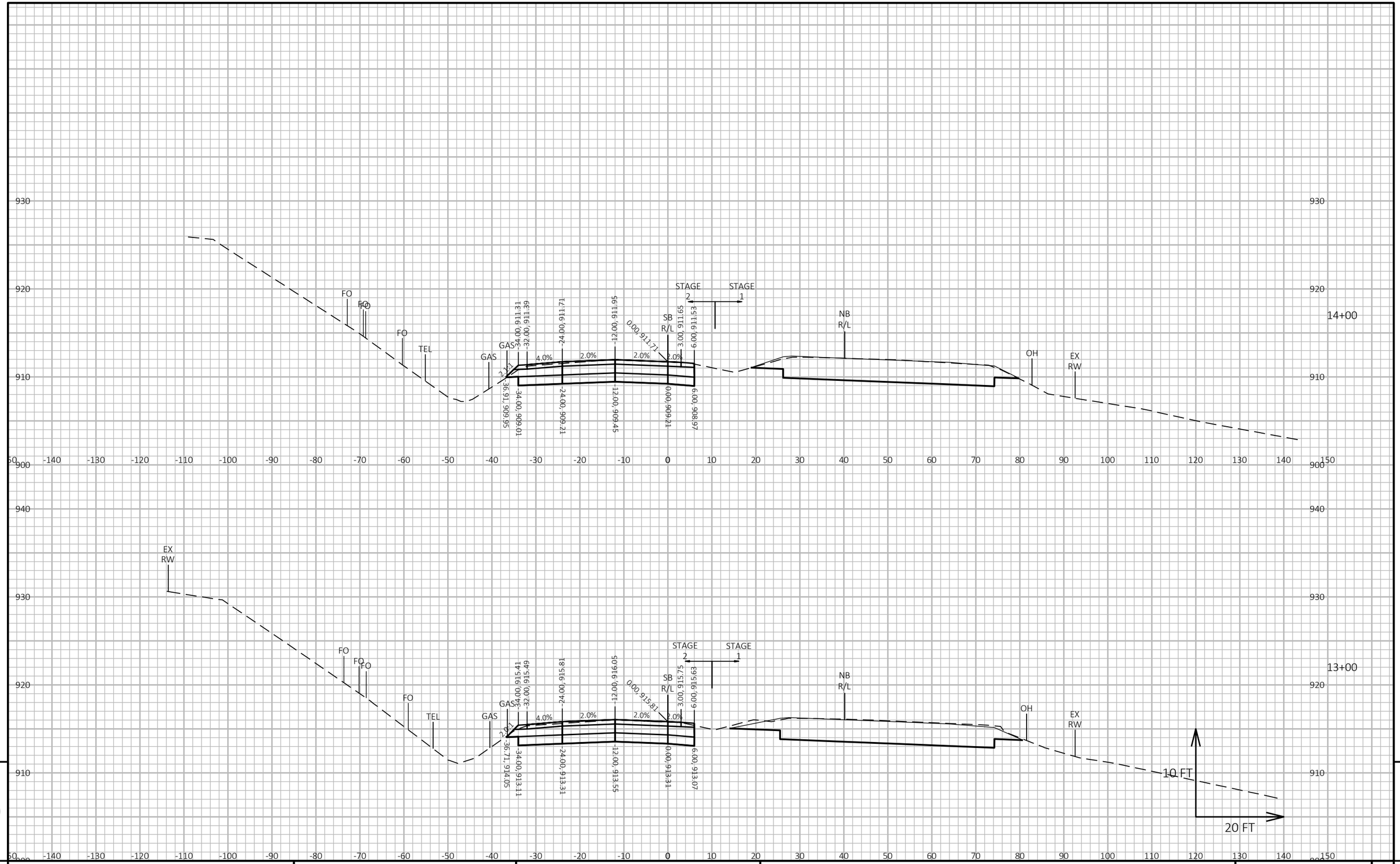
PLOT DATE : 10/25/2022 12:54 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 492	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 1

PLOT DATE : 10/25/2022 5:07 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

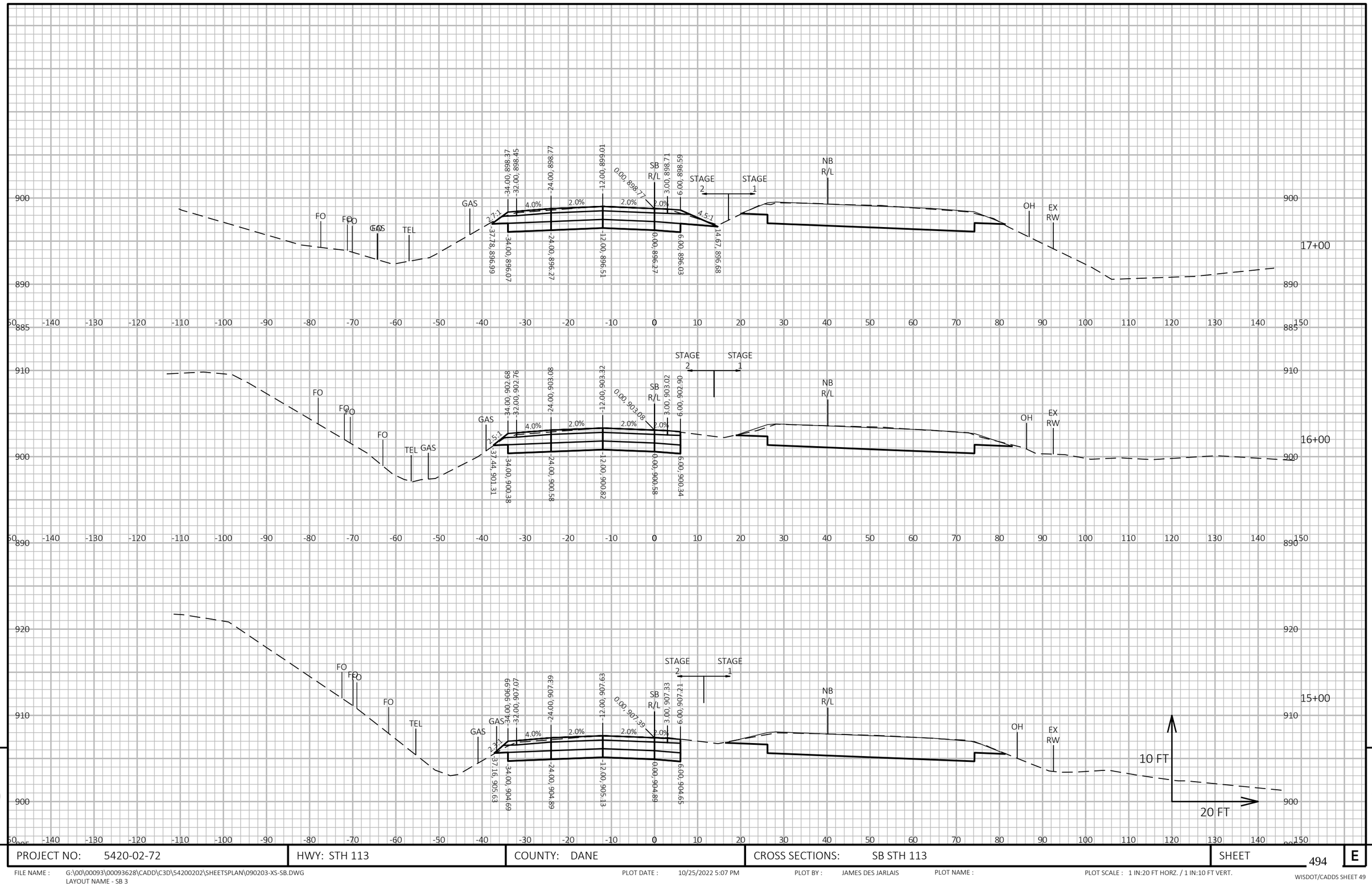


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 493	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 2

PLOT DATE : 10/25/2022 5:07 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

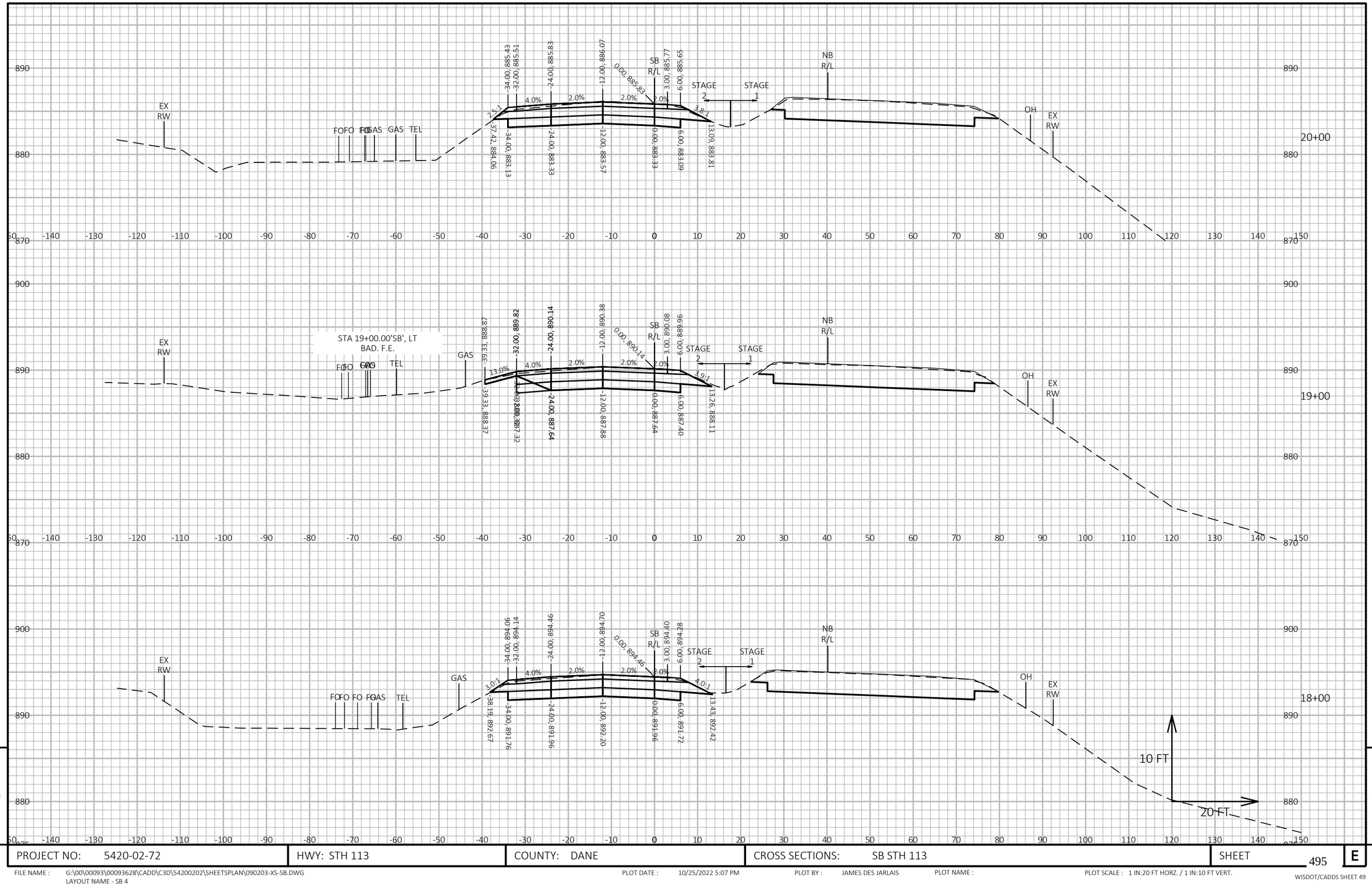


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 494	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 3

PLOT DATE : 10/25/2022 5:07 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

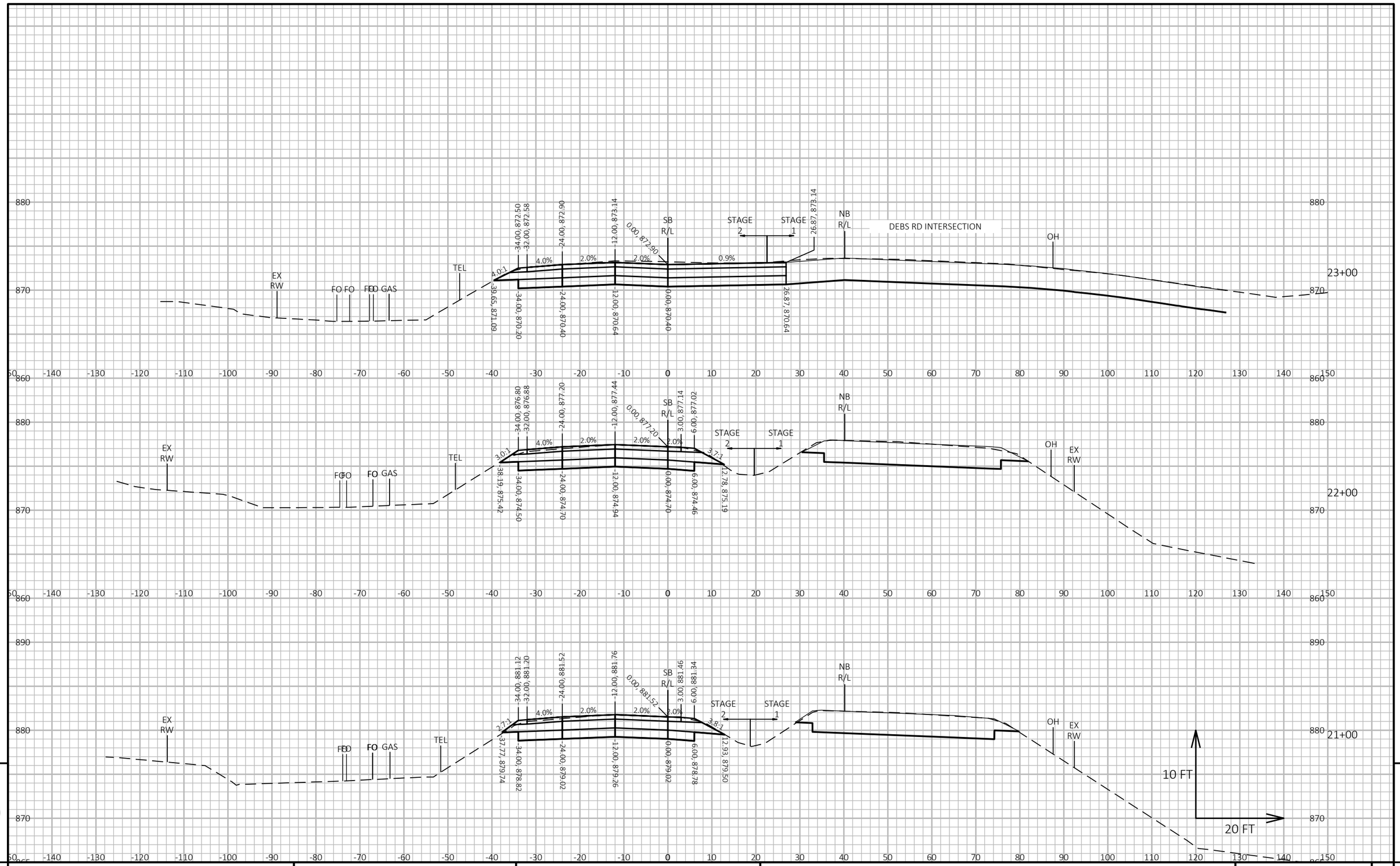


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 495	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 4

PLOT DATE : 10/25/2022 5:07 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



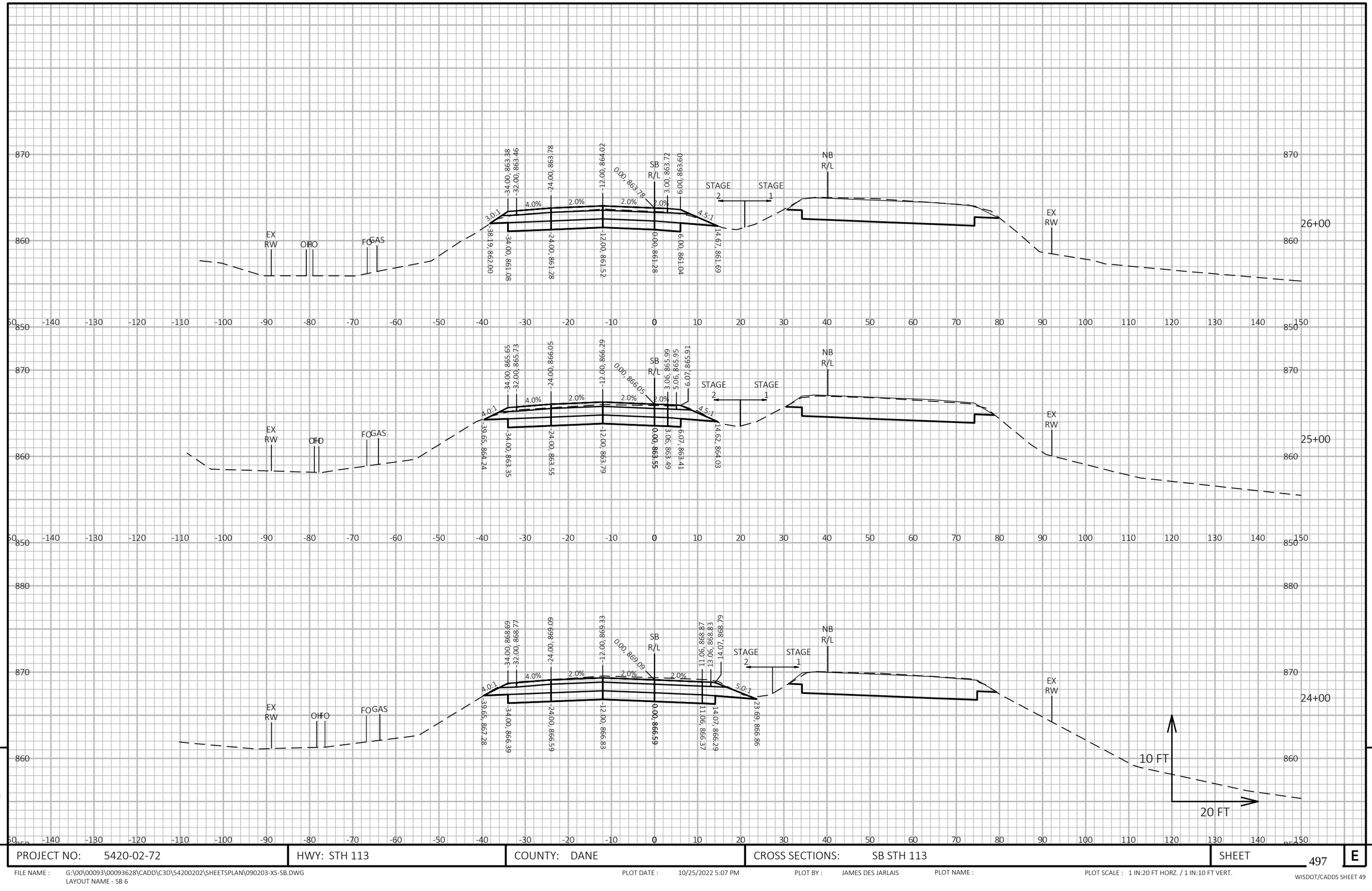
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 496	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 5

PLOT DATE : 10/25/2022 5:07 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



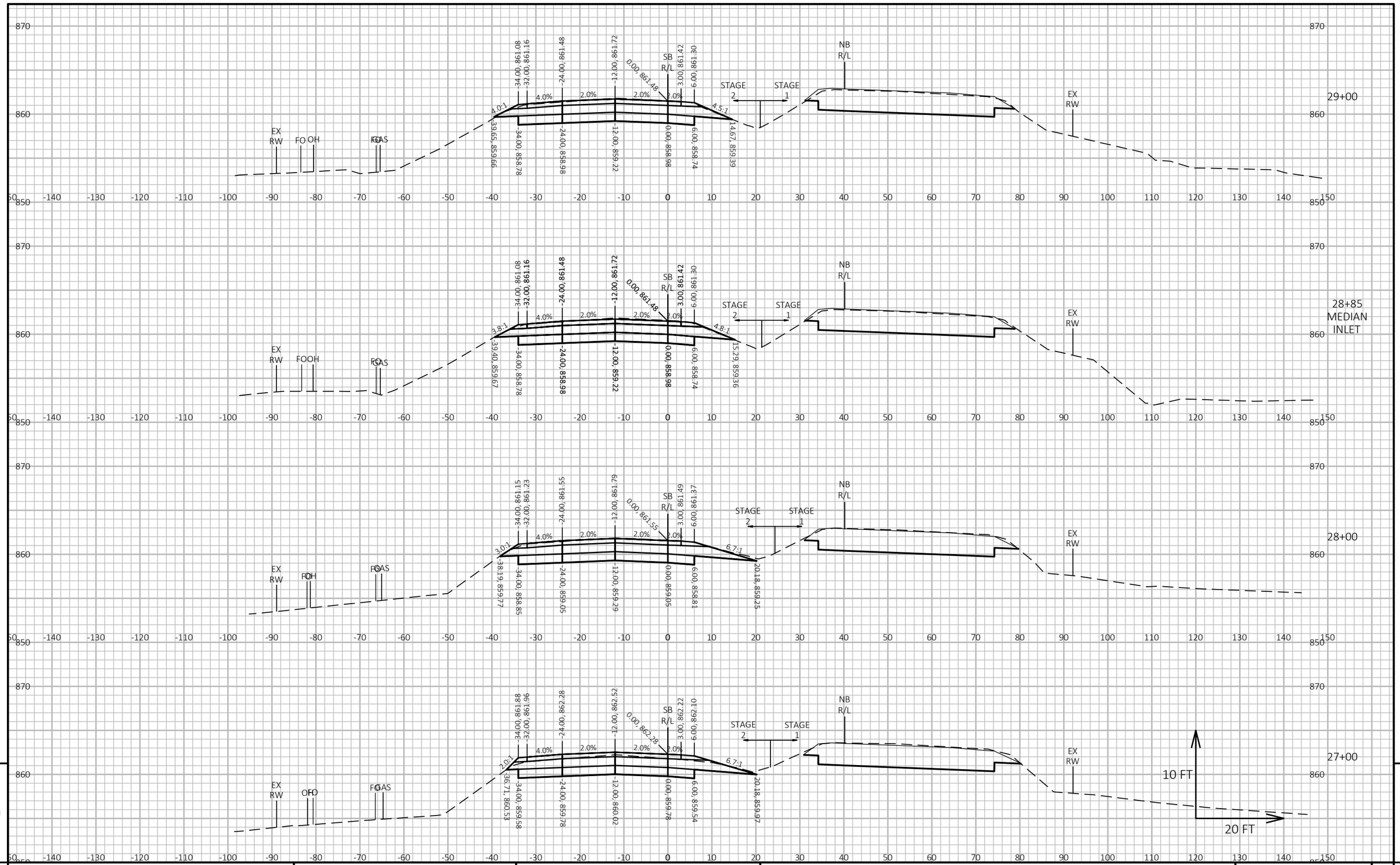
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 497	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 6

PLOT DATE : 10/25/2022 5:07 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



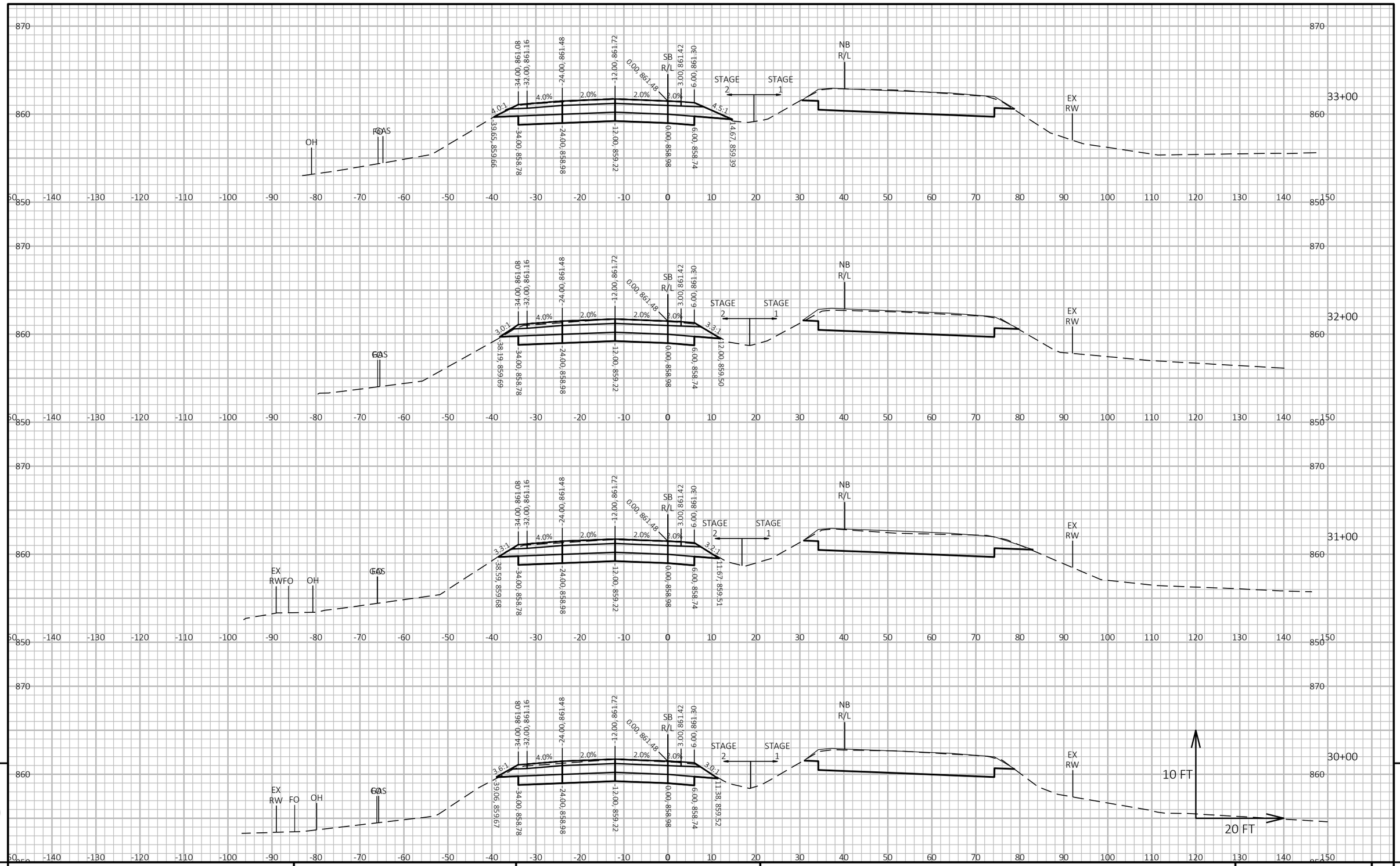
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 498	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 7

PLOT DATE : 10/25/2022 5:07 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

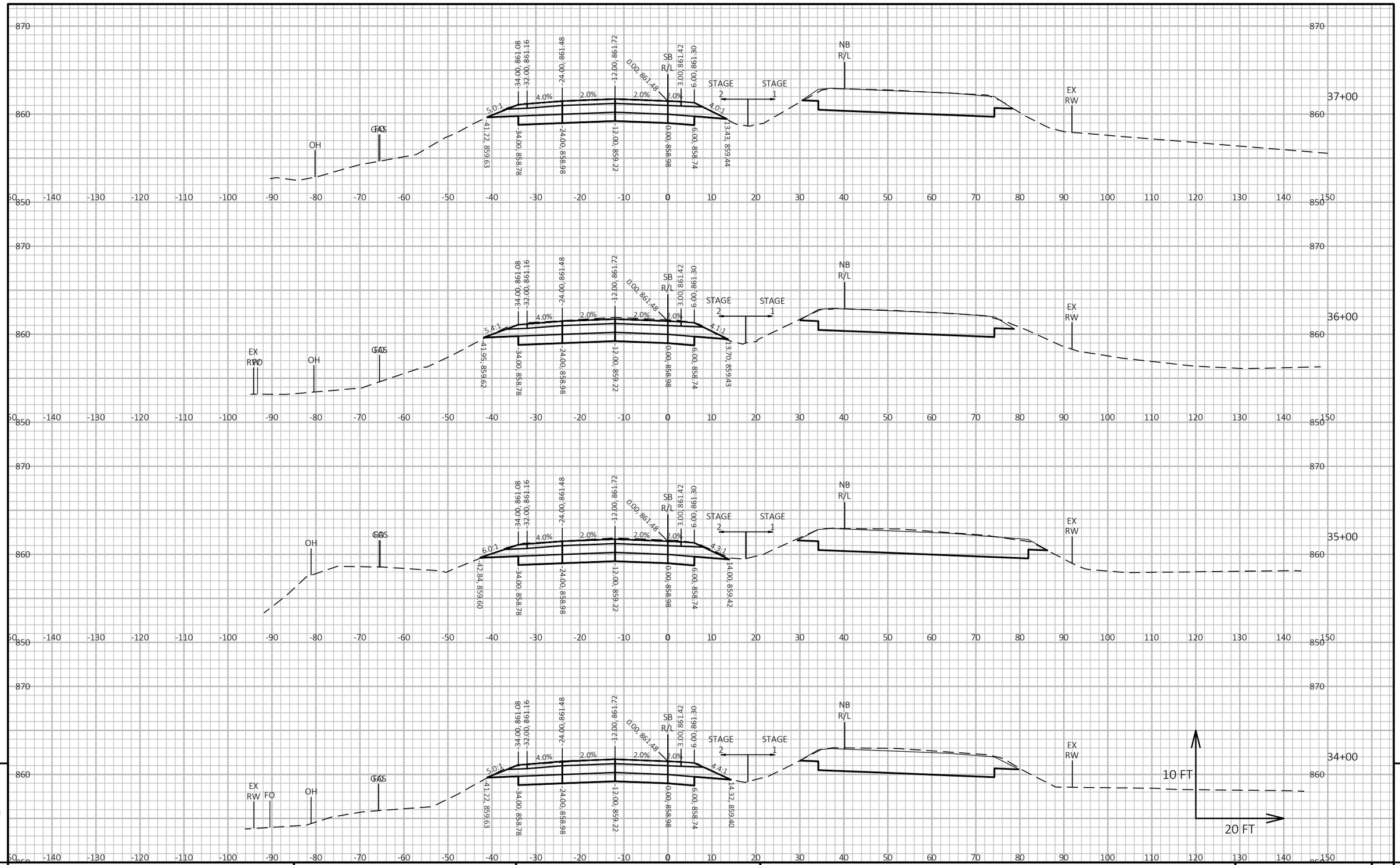


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 499 E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 8

PLOT DATE : 10/25/2022 5:07 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



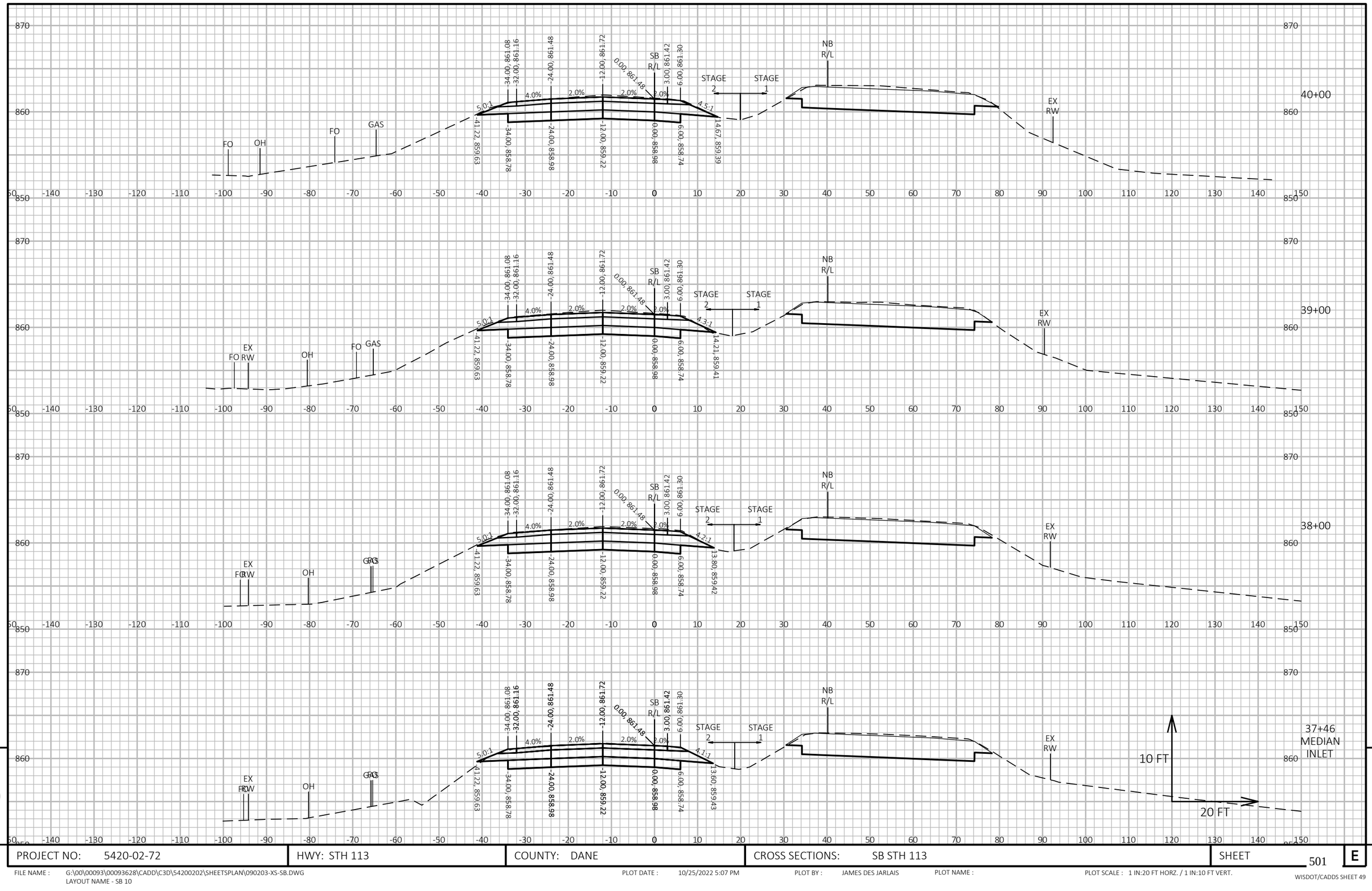
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 500	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 9

PLOT DATE : 10/25/2022 5:07 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



9

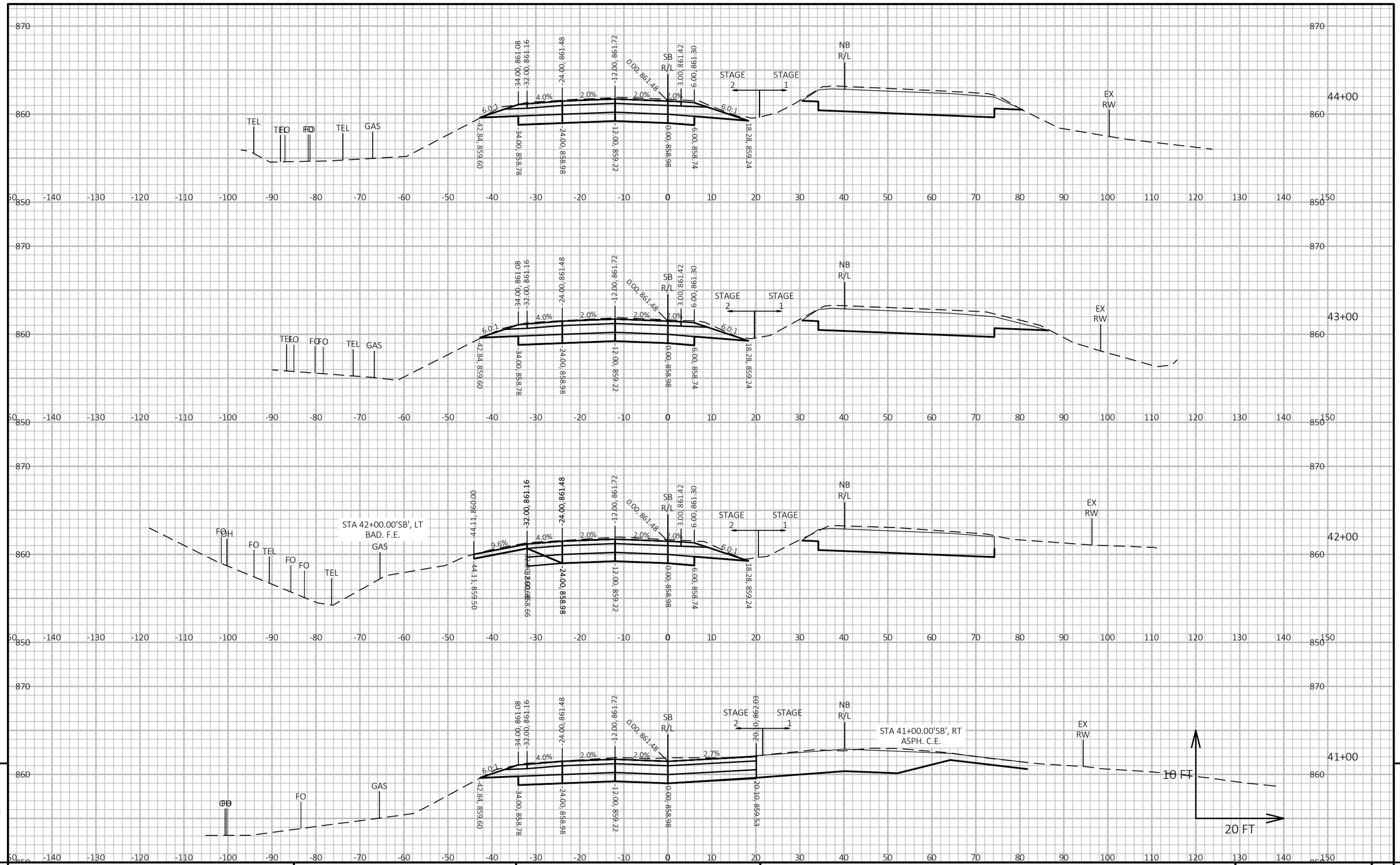
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 501	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 10

PLOT DATE : 10/25/2022 5:07 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

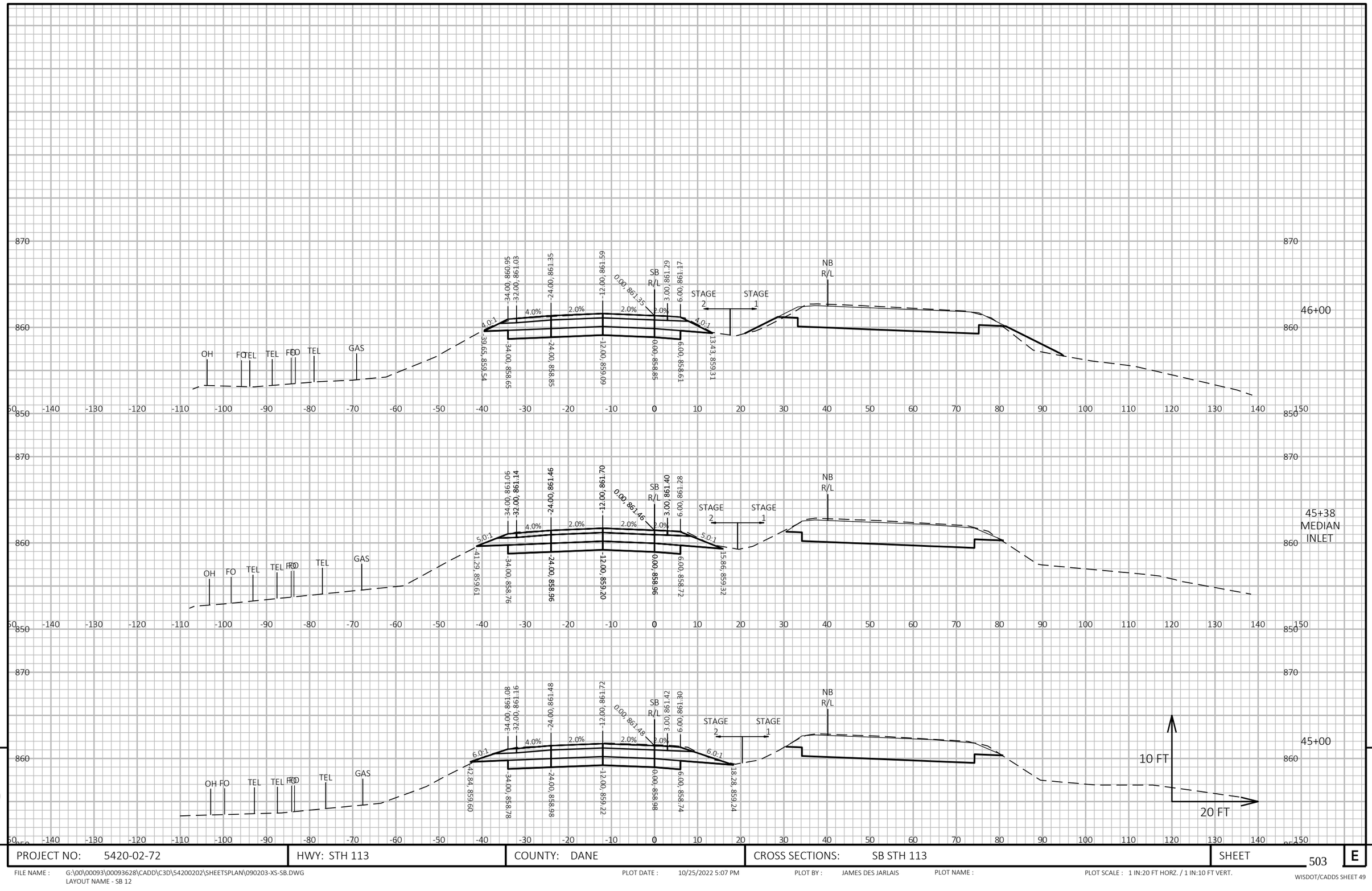
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 502	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 11

PLOT DATE : 10/25/2022 5:07 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 503	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 12

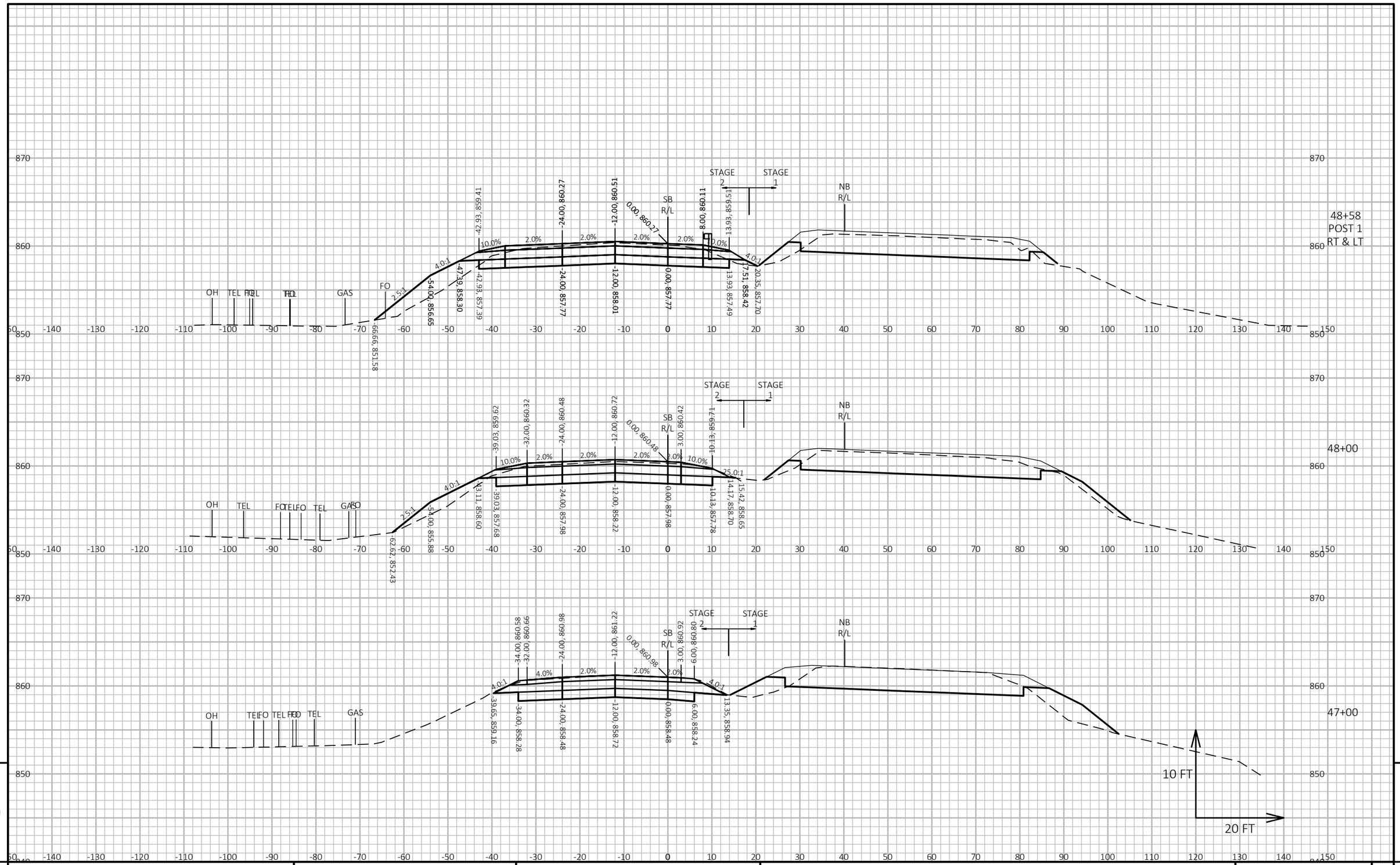
PLOT DATE : 10/25/2022 5:07 PM

PLOT BY : JAMES DES JARLAIS

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

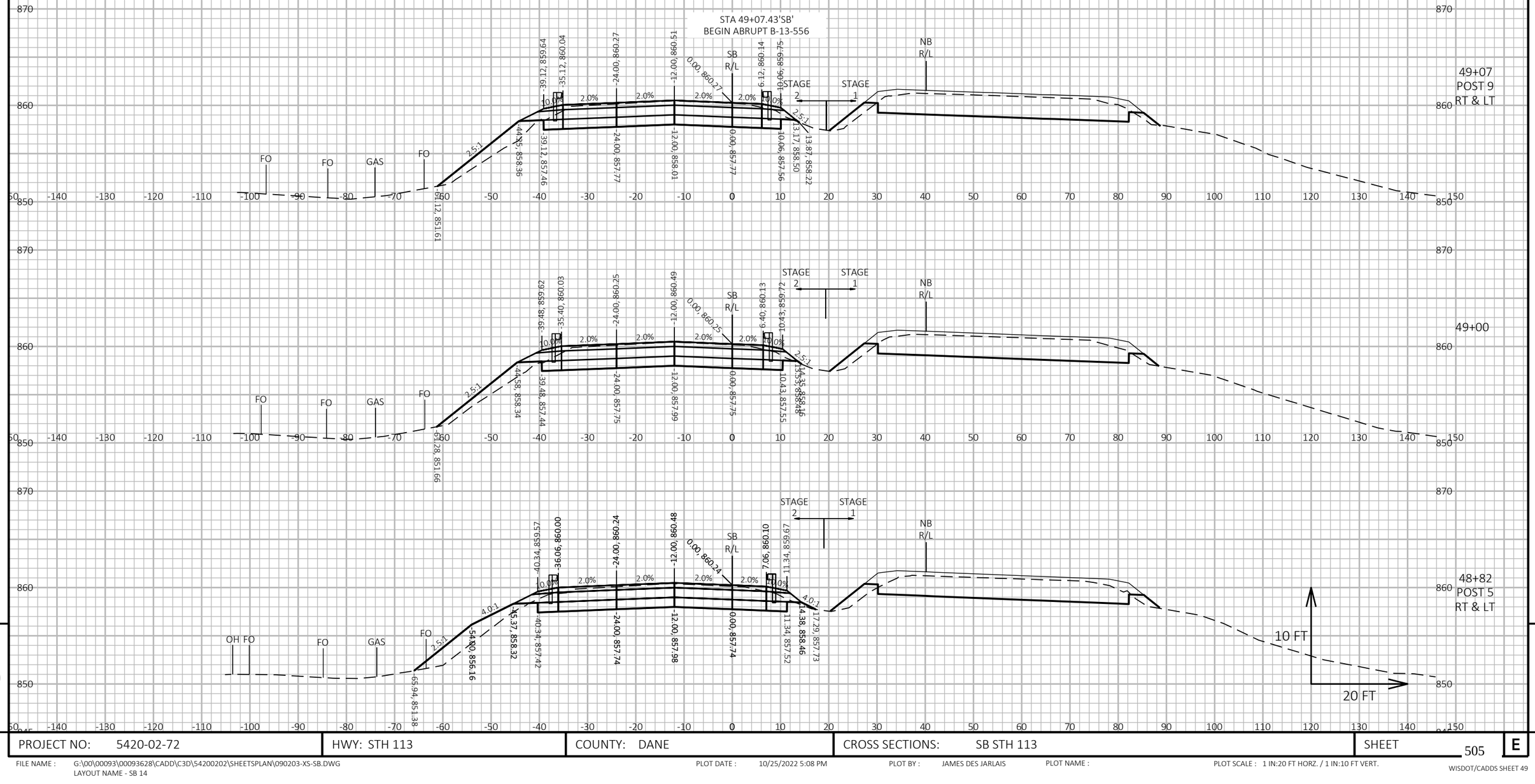


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 504 E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 13

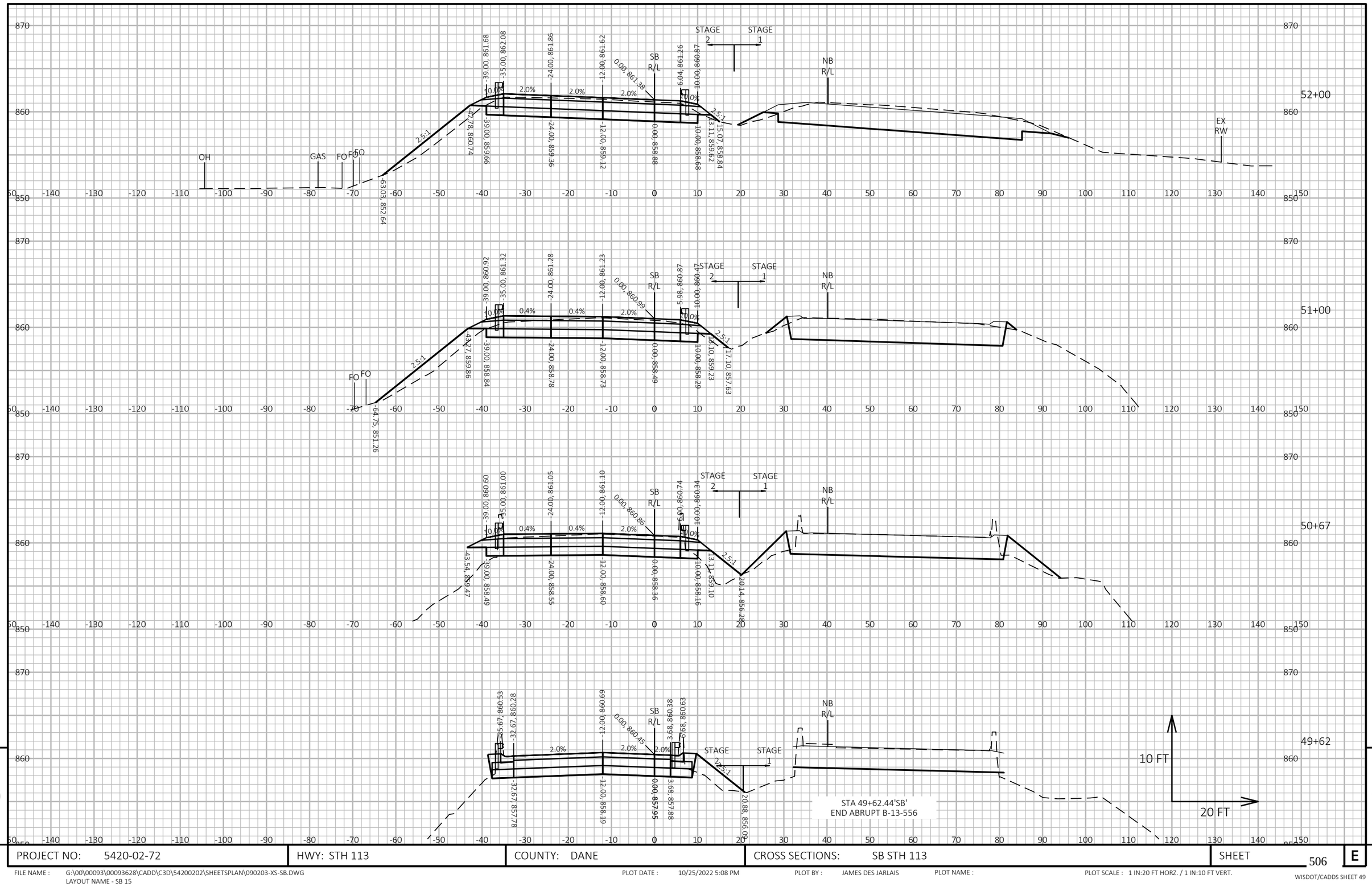
PLOT DATE : 10/25/2022 5:07 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 505 E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 14
PLOT DATE : 10/25/2022 5:08 PM
PLOT BY : JAMES DES JARLAIS
PLOT NAME :
PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.
WISDOT/CADDS SHEET 49

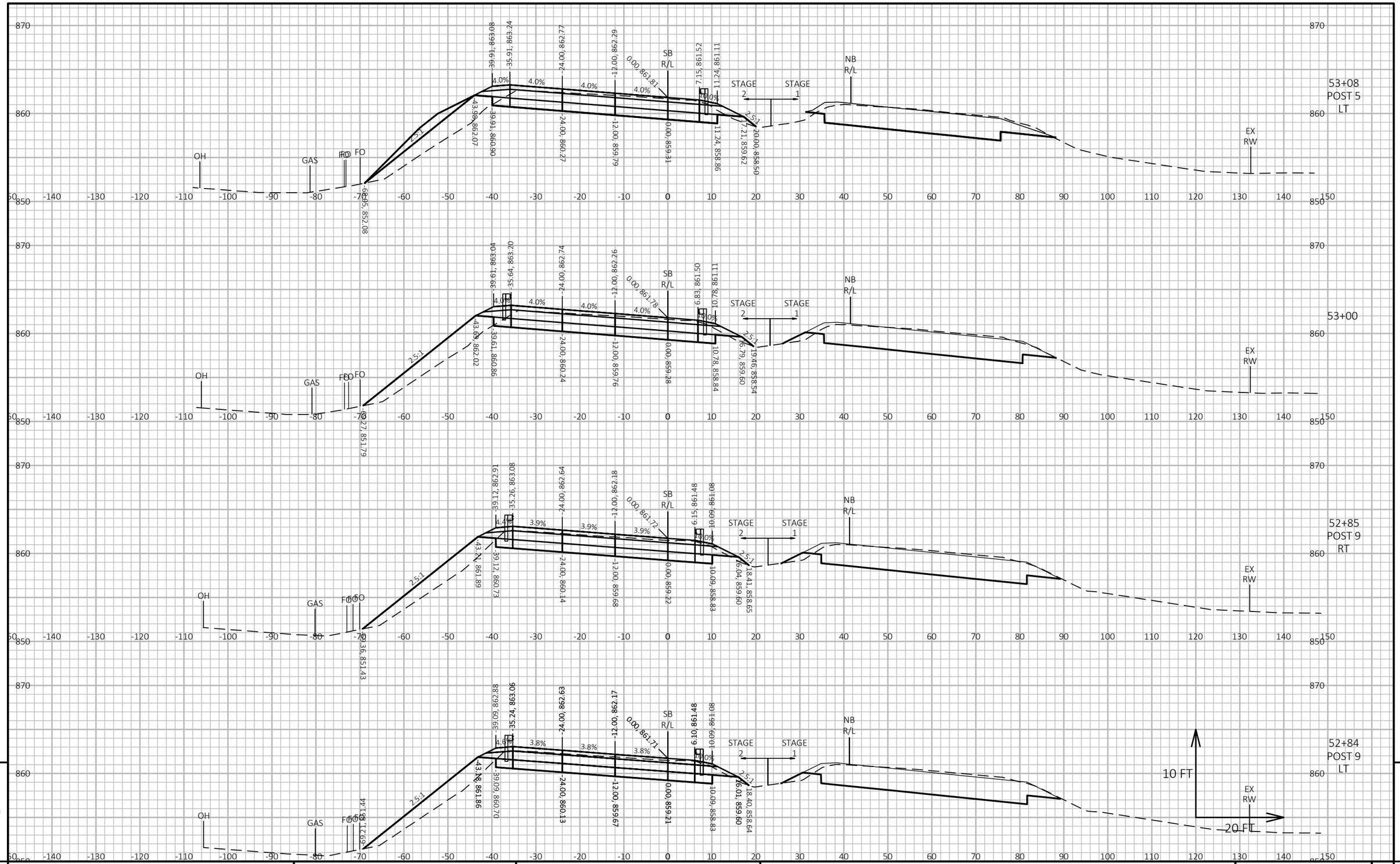


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 506	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 15

PLOT DATE : 10/25/2022 5:08 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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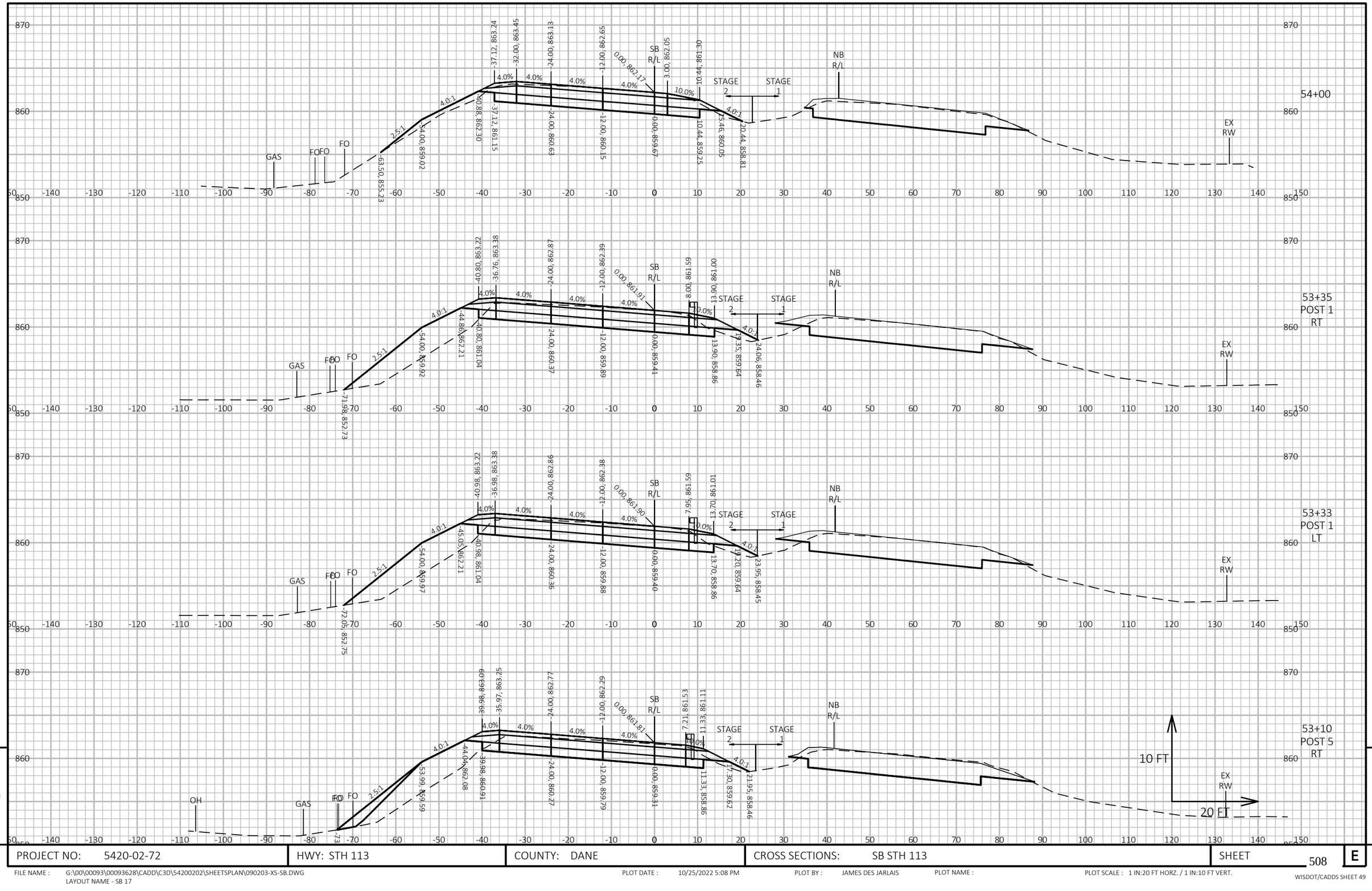
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 507	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 16

PLOT DATE : 10/25/2022 5:08 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

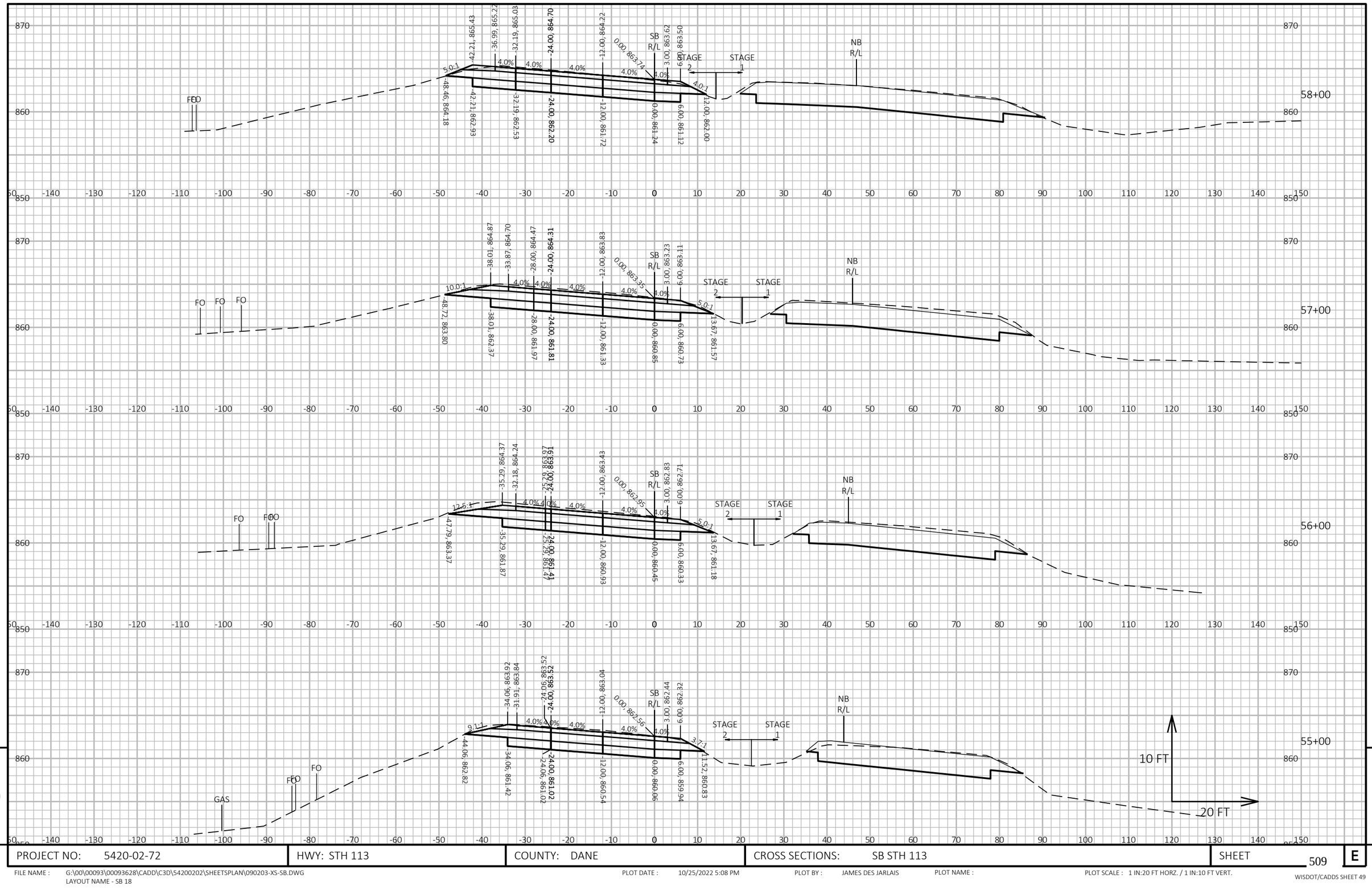


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 508	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 17

PLOT DATE : 10/25/2022 5:08 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

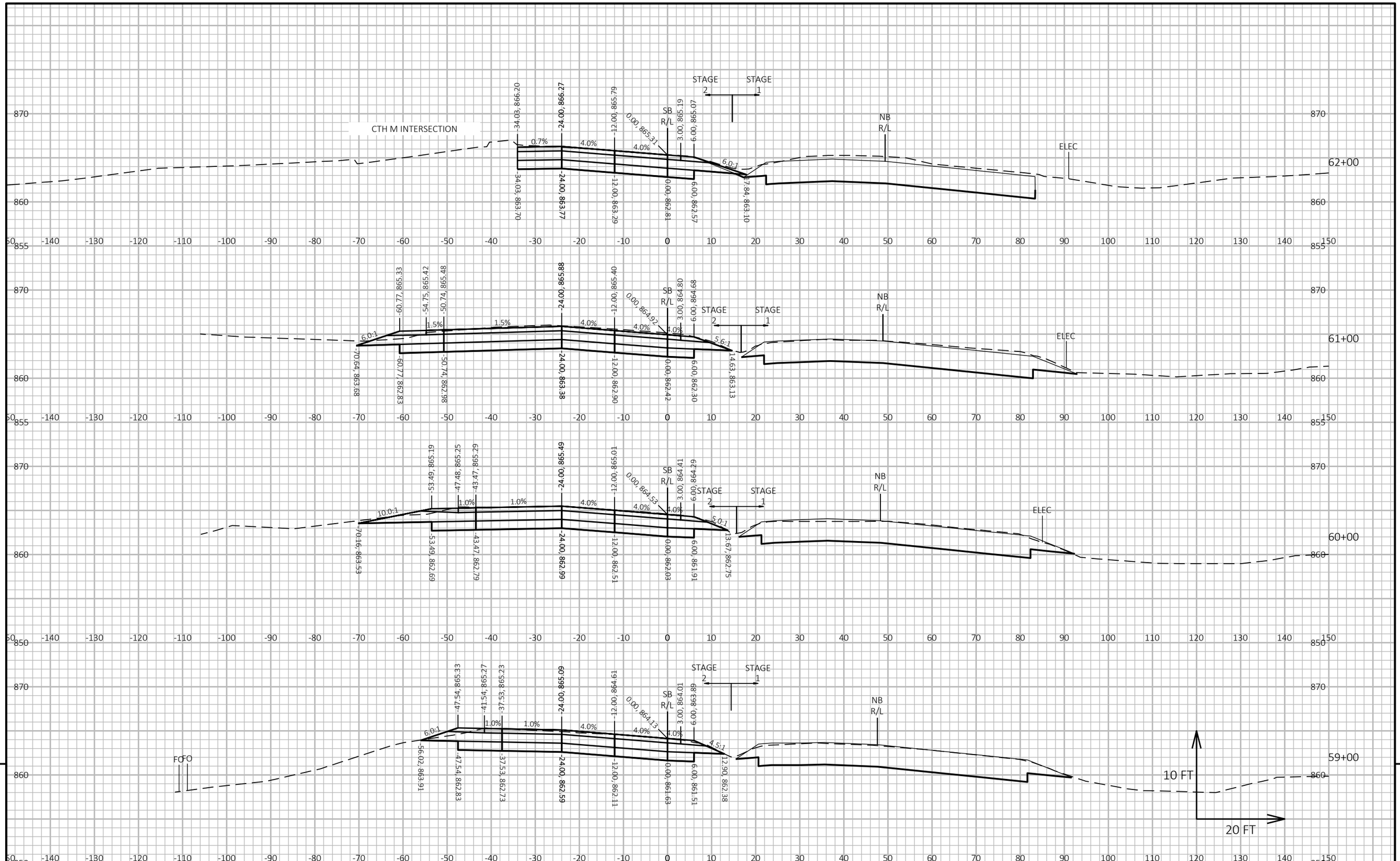


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 509 E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 18

PLOT DATE : 10/25/2022 5:08 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

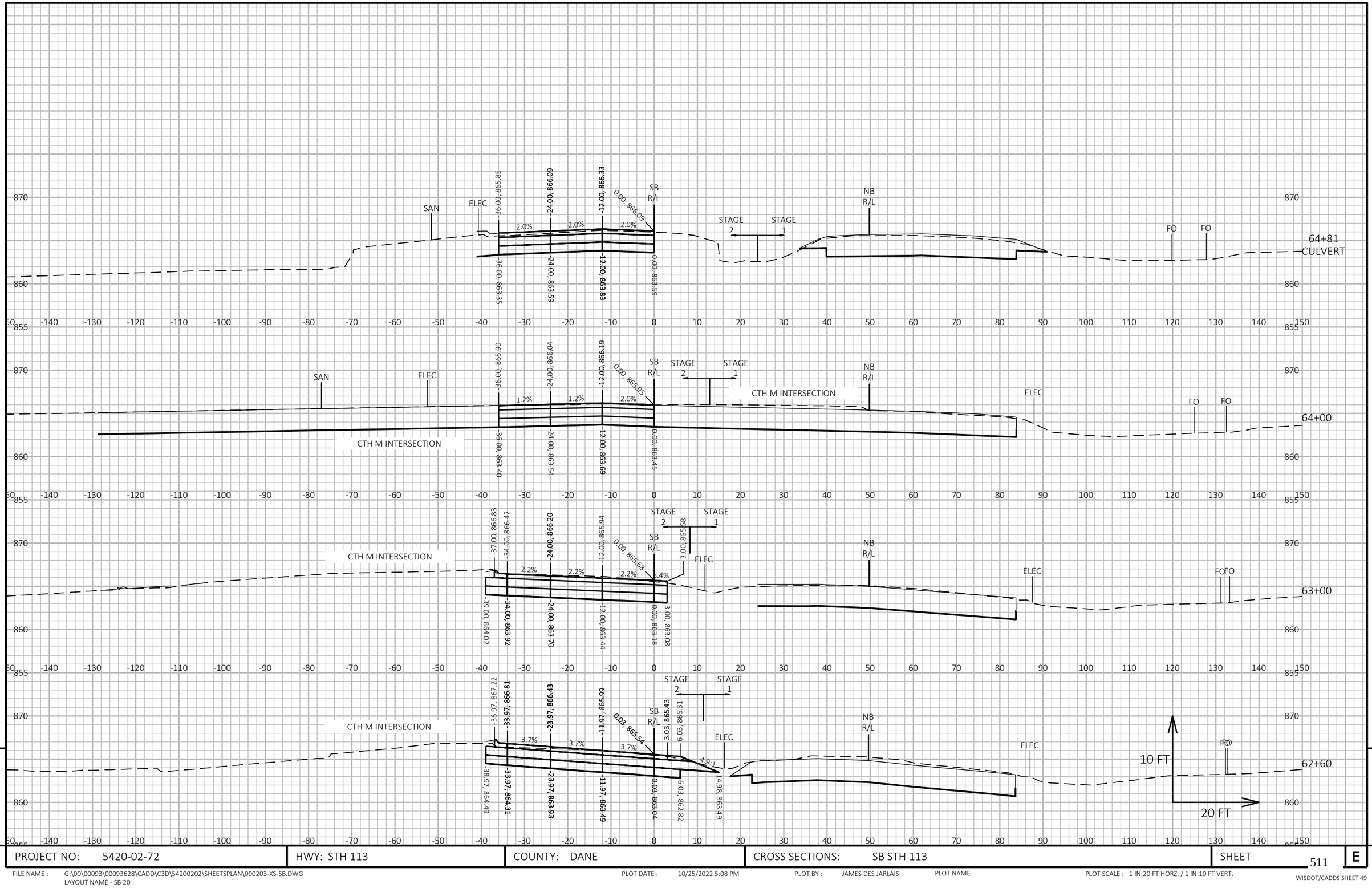
WISDOT/CADDS SHEET 49



PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 510	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 19

PLOT DATE : 10/25/2022 5:08 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



9

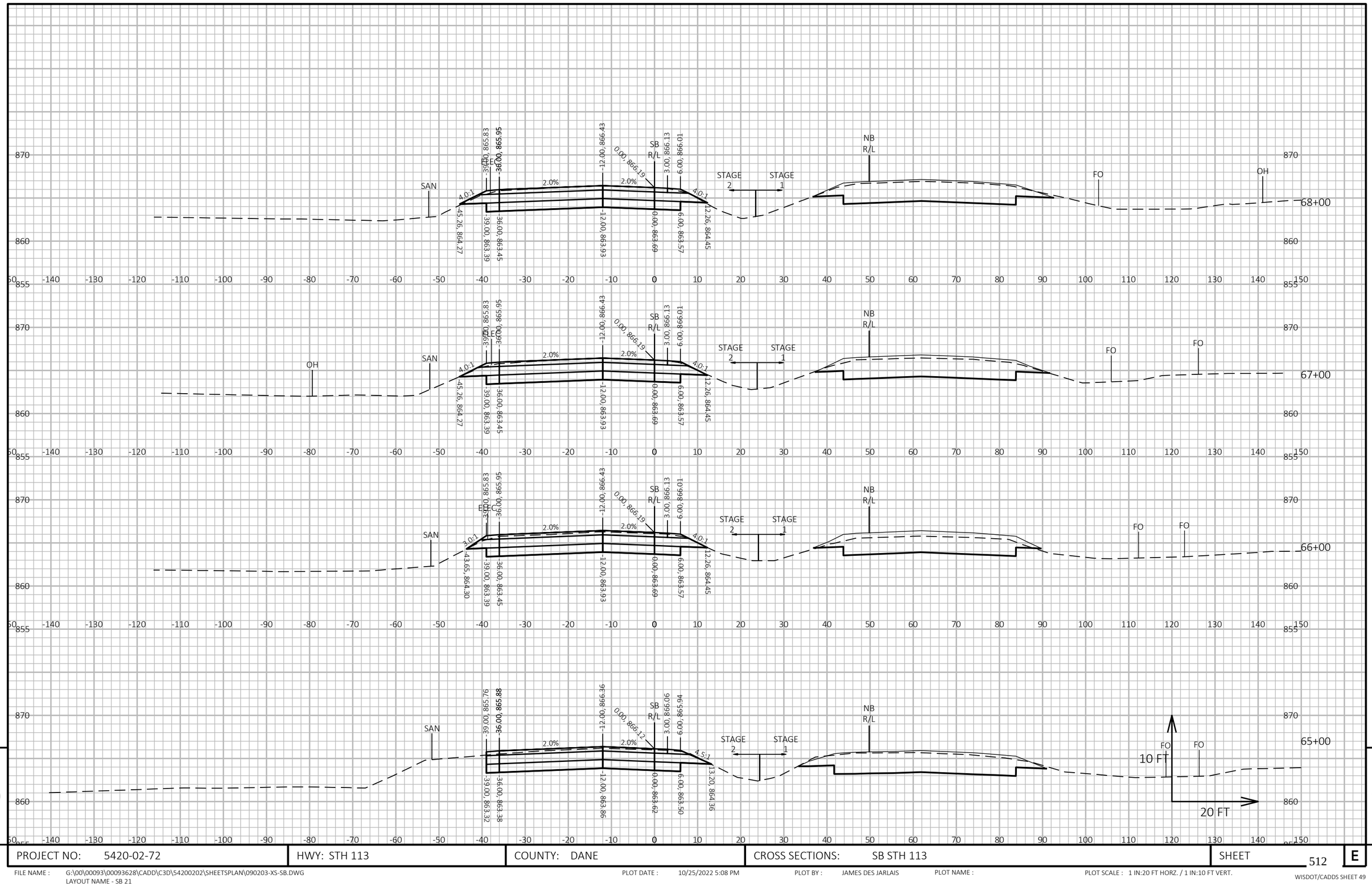
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 511	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 20

PLOT DATE : 10/25/2022 5:08 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



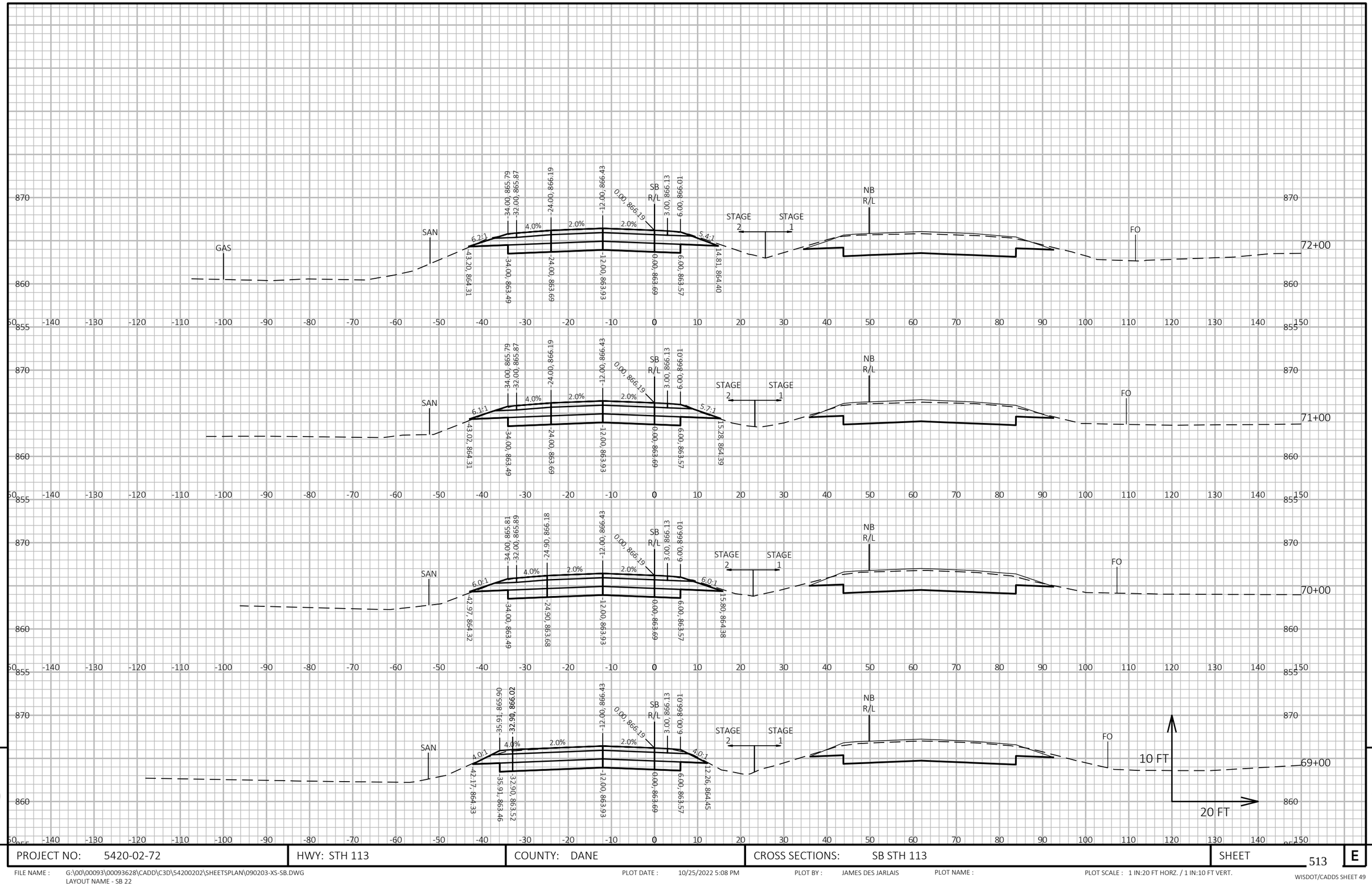
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 512	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 21

PLOT DATE : 10/25/2022 5:08 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

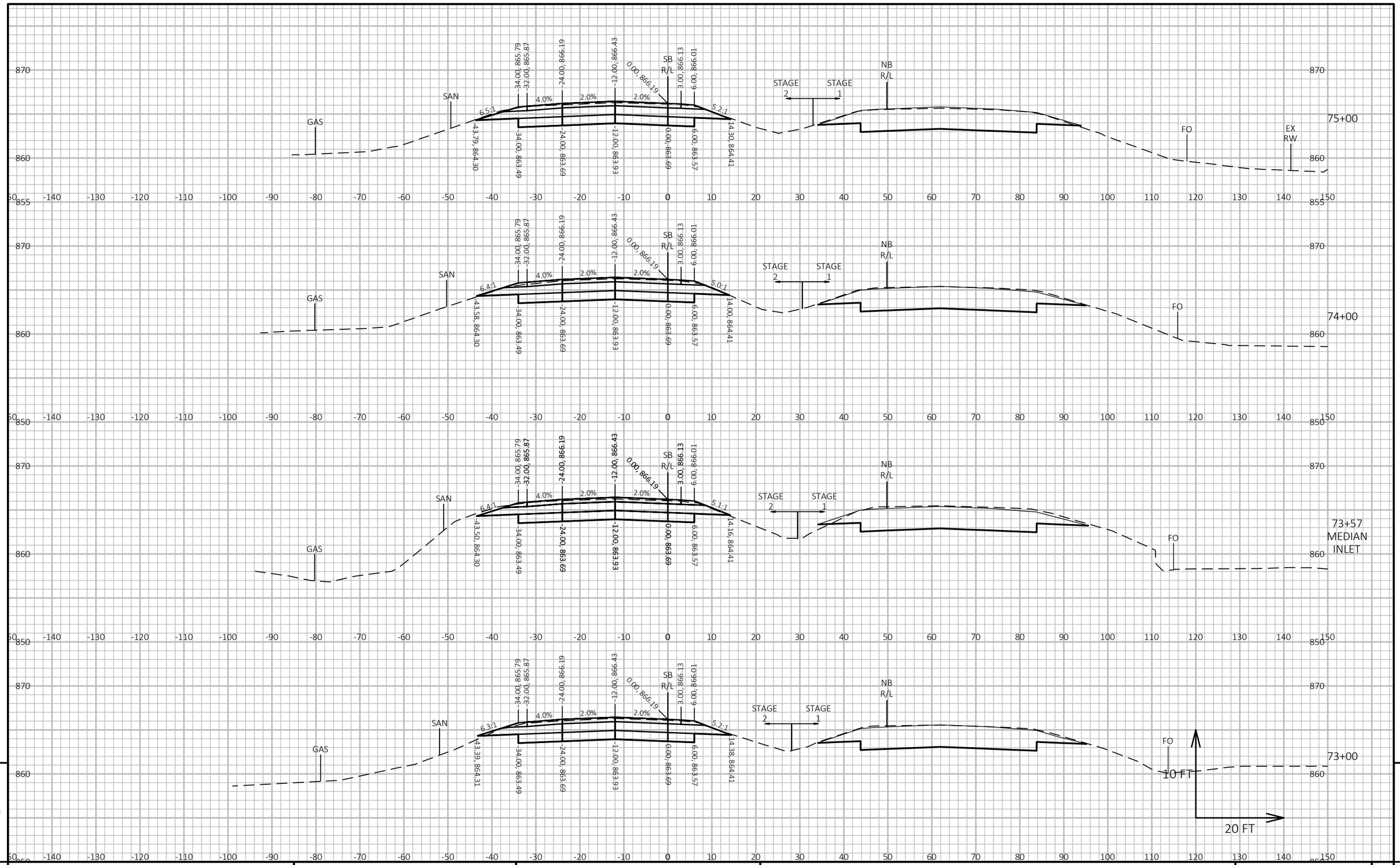


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 513 E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 22

PLOT DATE : 10/25/2022 5:08 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 514	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 23

PLOT DATE : 10/25/2022 5:08 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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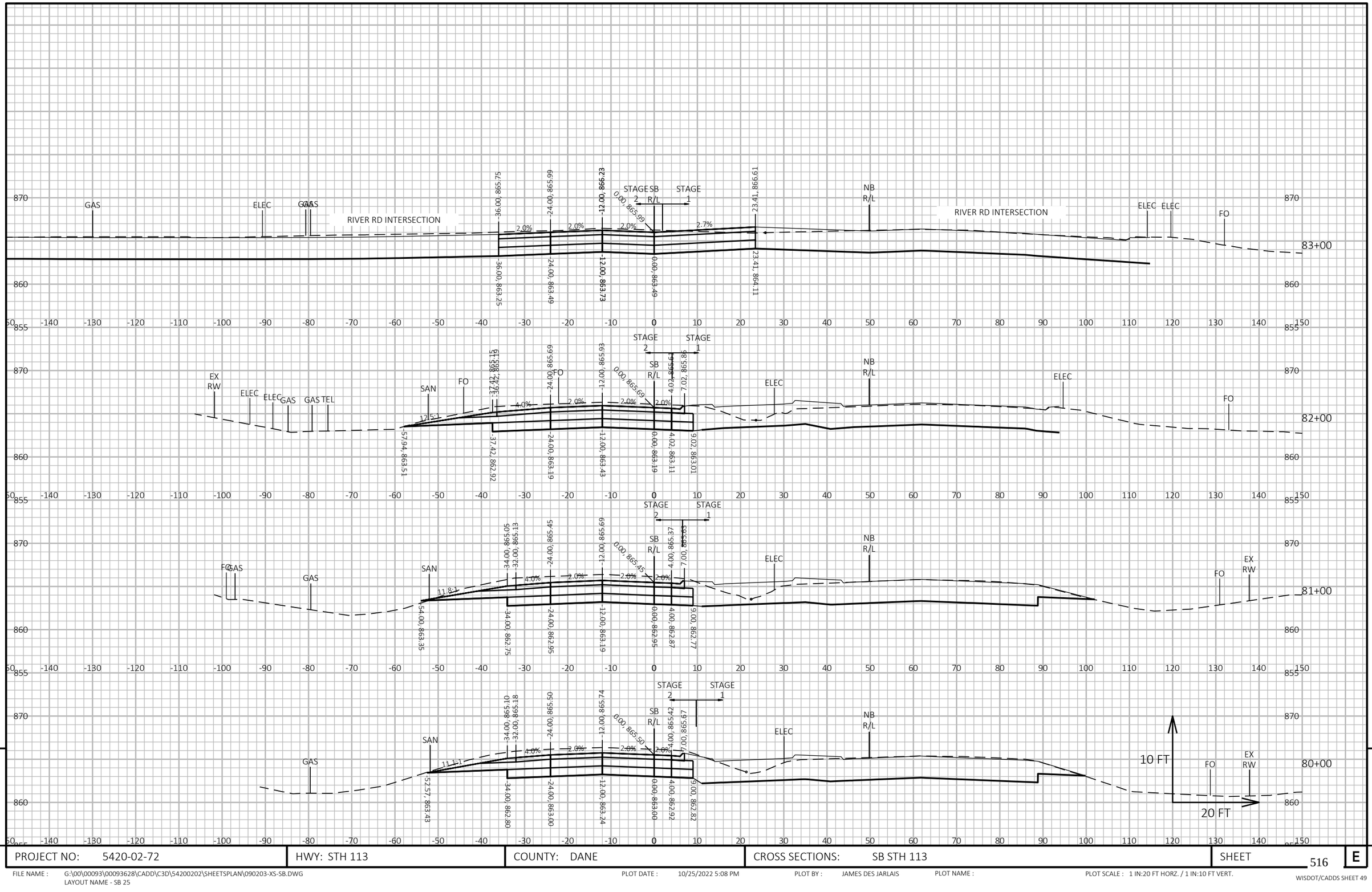
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 515	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 24

PLOT DATE : 10/25/2022 5:08 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

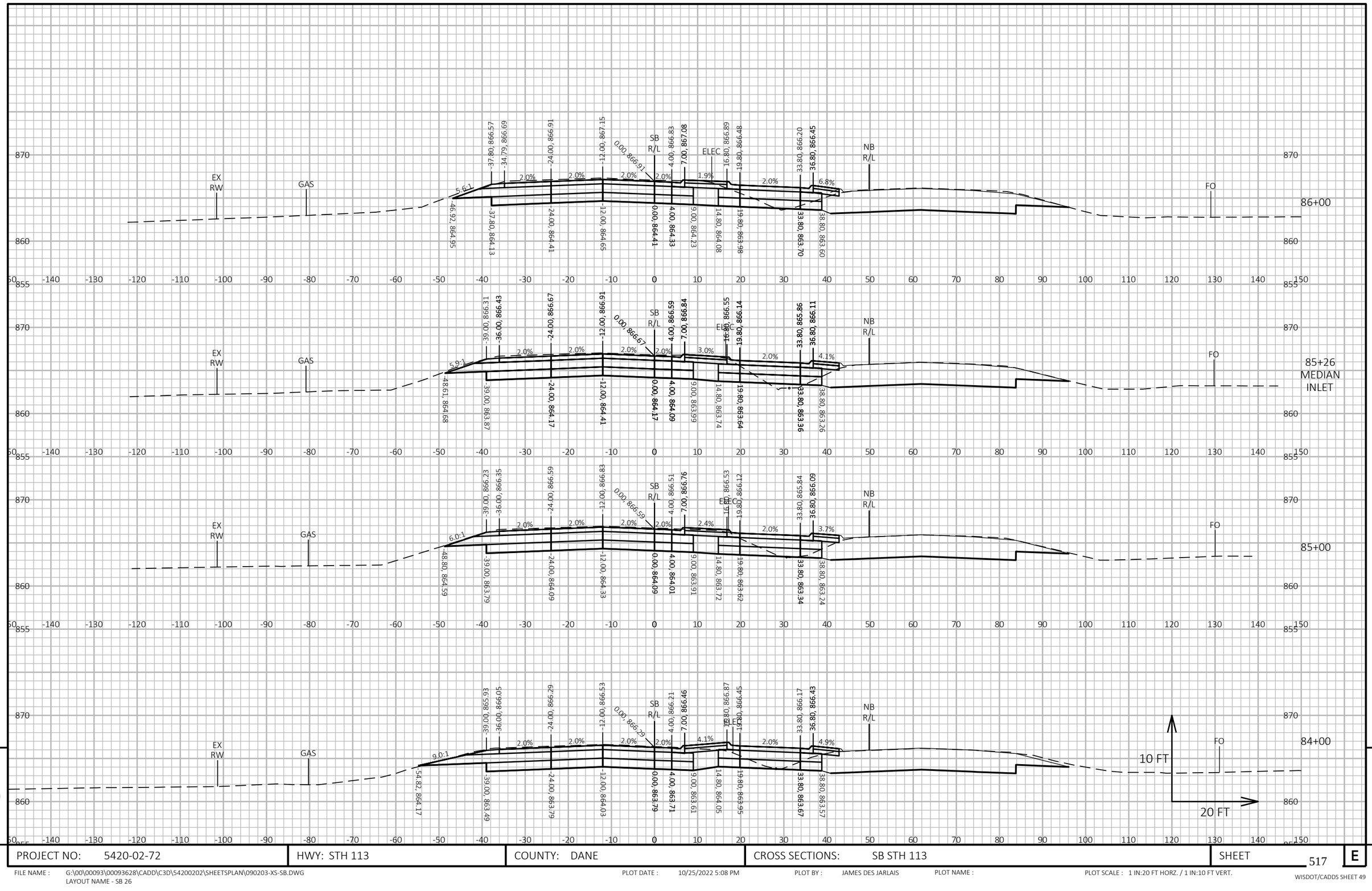
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 516	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 25

PLOT DATE : 10/25/2022 5:08 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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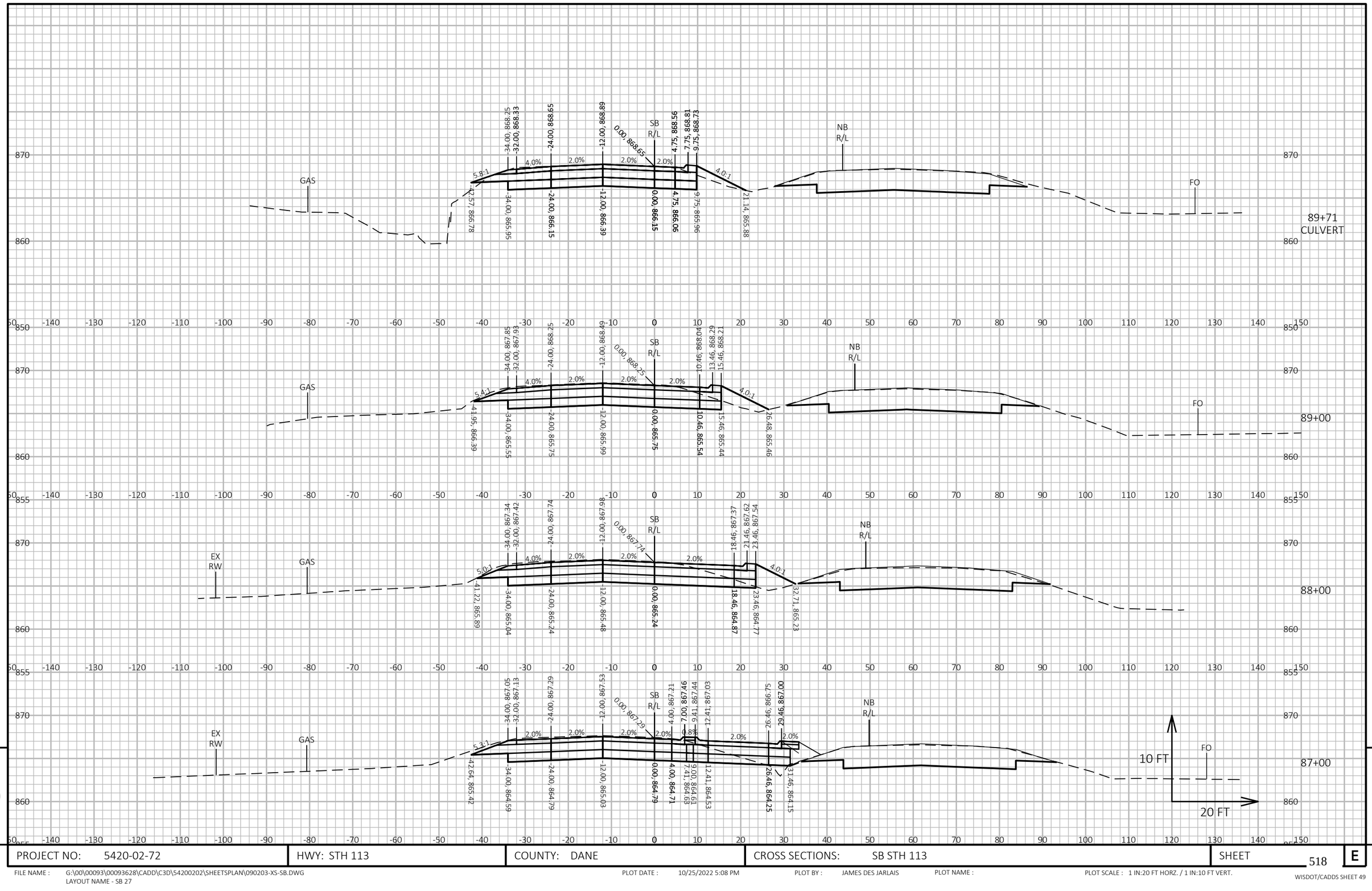
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 517	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 26

PLOT DATE : 10/25/2022 5:08 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

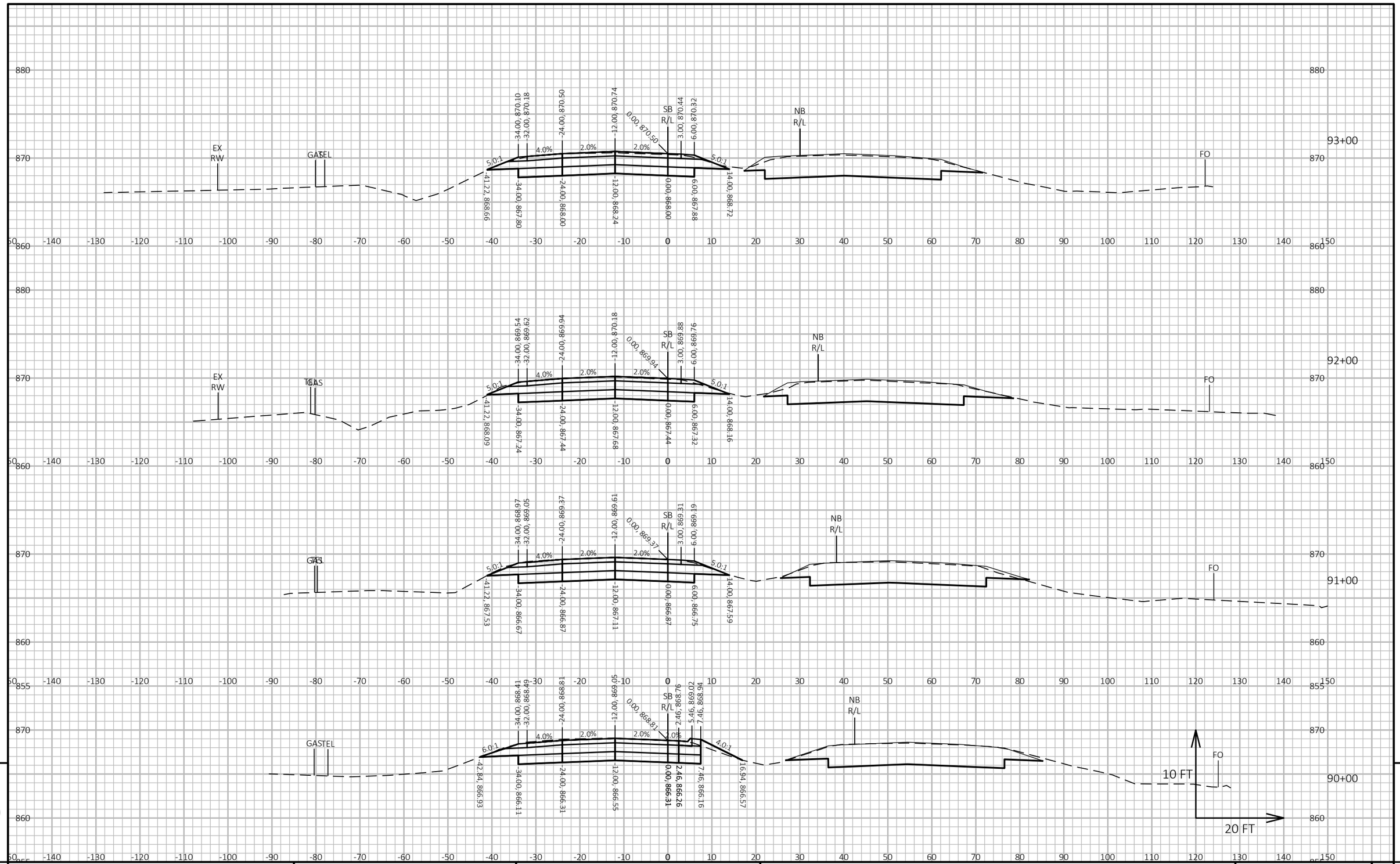


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 518 E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 27

PLOT DATE : 10/25/2022 5:08 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

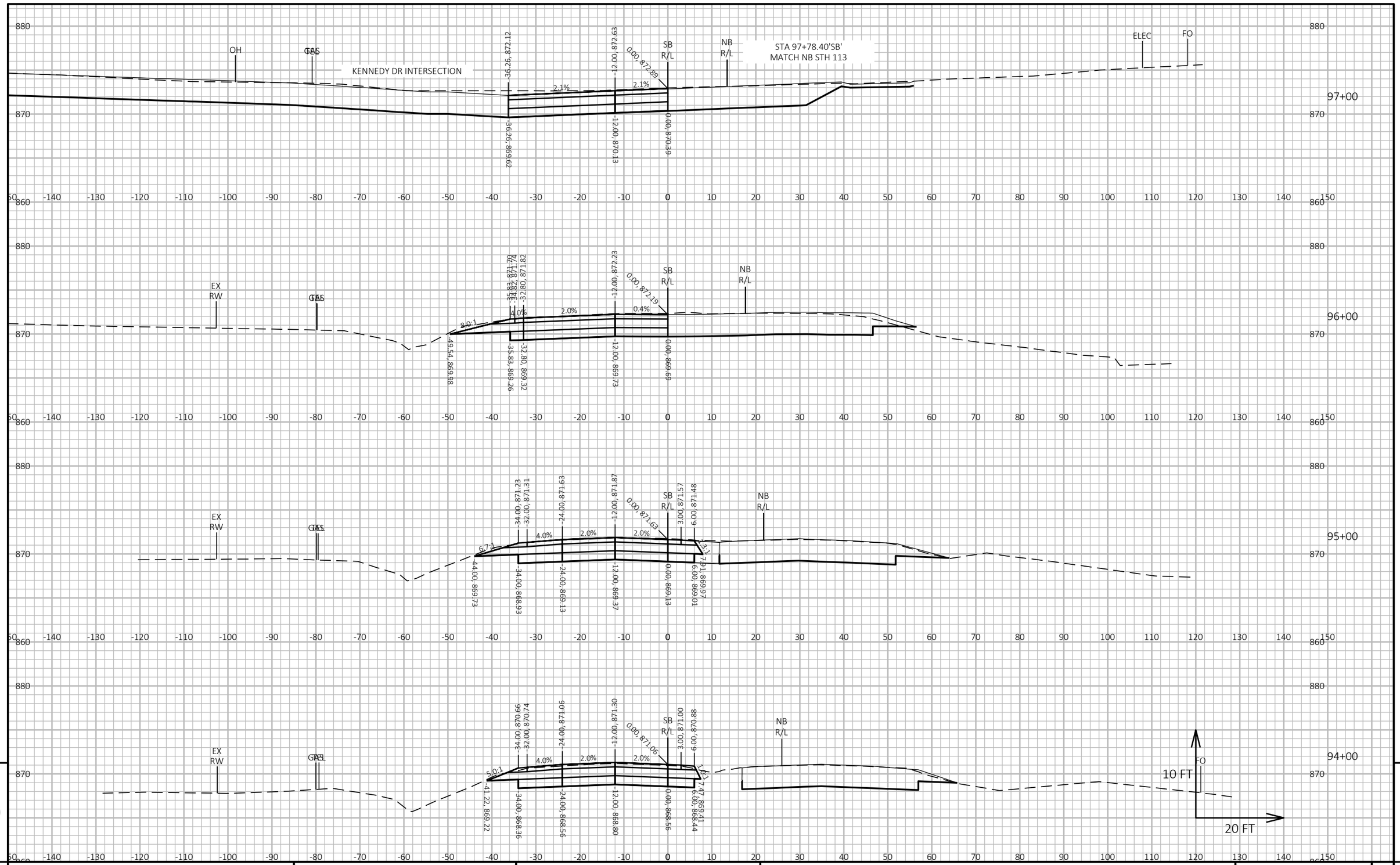


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 519	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 28

PLOT DATE : 10/25/2022 5:08 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

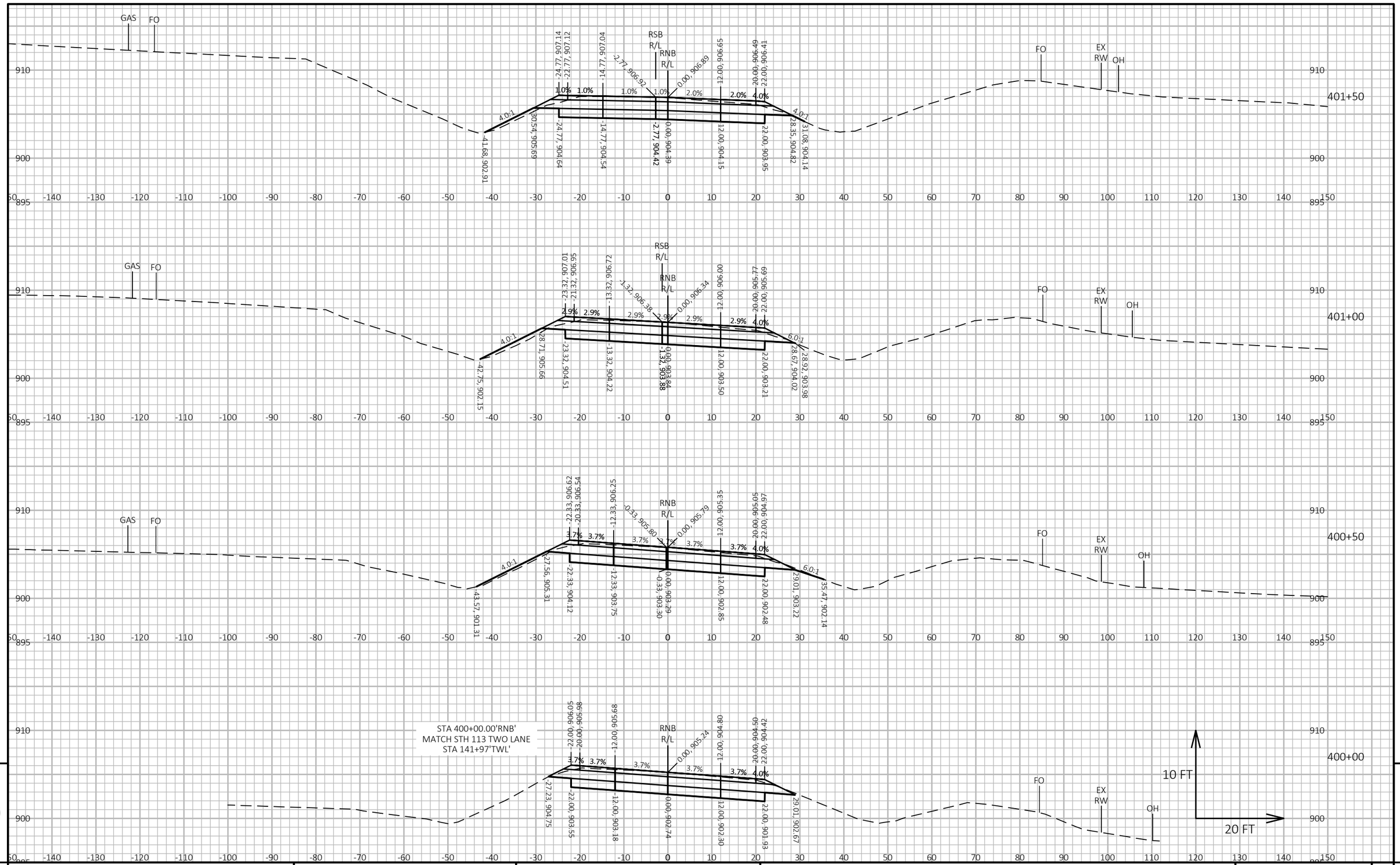
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: SB STH 113	SHEET 520	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090203-XS-SB.DWG
LAYOUT NAME - SB 29

PLOT DATE : 10/25/2022 5:08 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



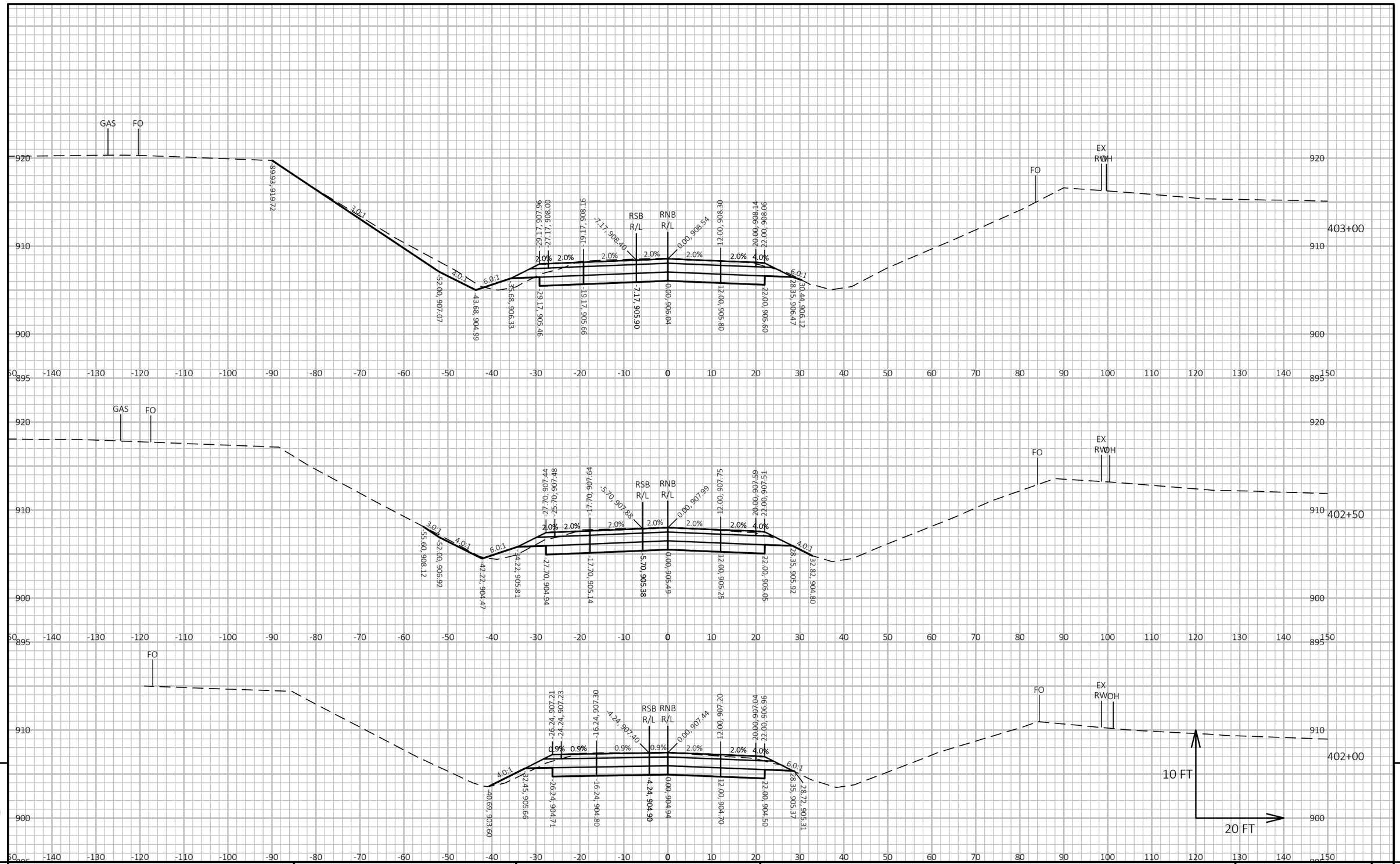
9

9

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: STH 113 NB RAB	SHEET 521	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090204-XS-RAB 113 NB.DWG
LAYOUT NAME - 090201-xs

PLOT DATE : 10/21/2022 3:10 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



9

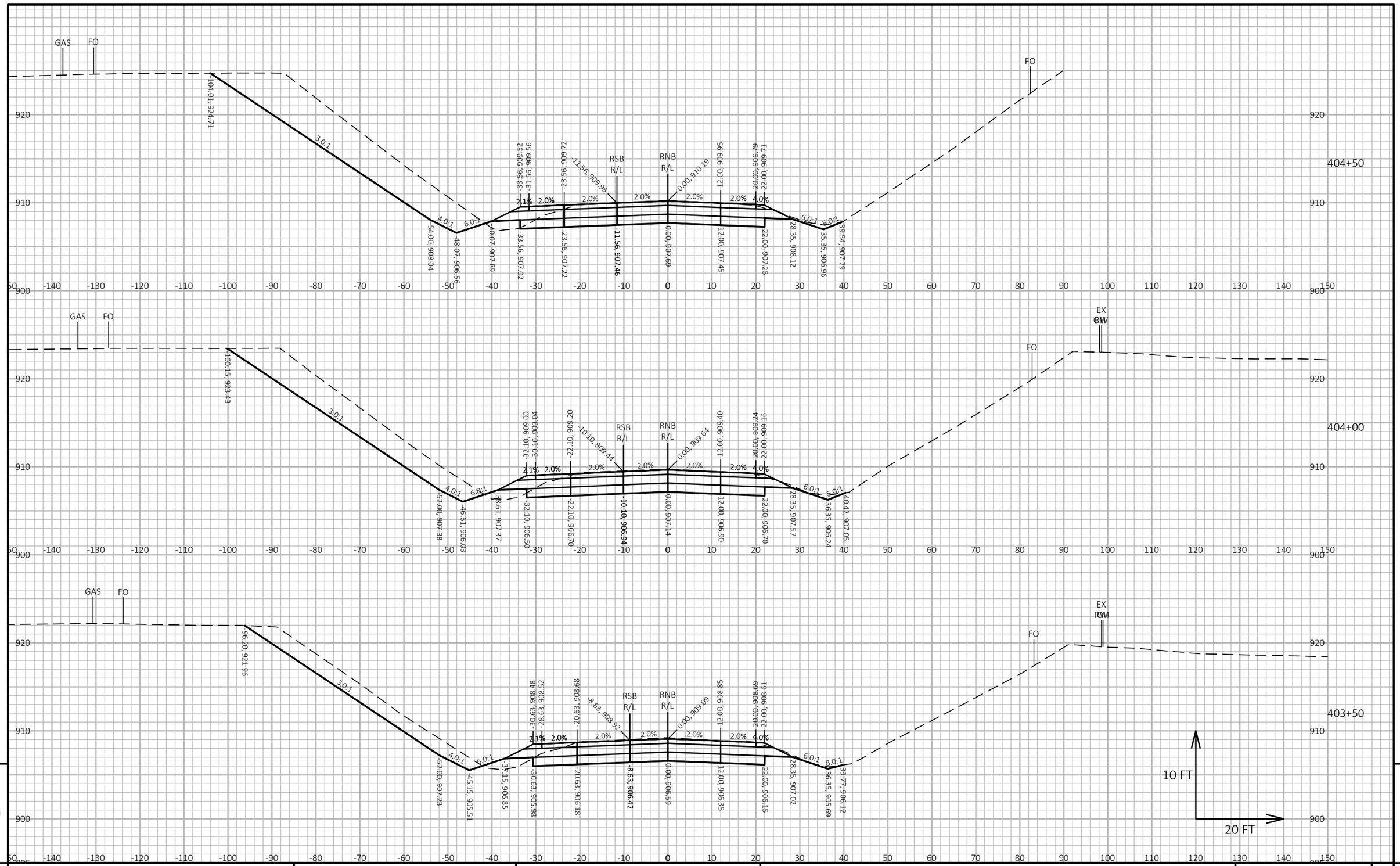
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: STH 113 NB RAB	SHEET 522	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090204-XS-RAB 113 NB.DWG
LAYOUT NAME - 090202-xs

PLOT DATE : 10/21/2022 3:11 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

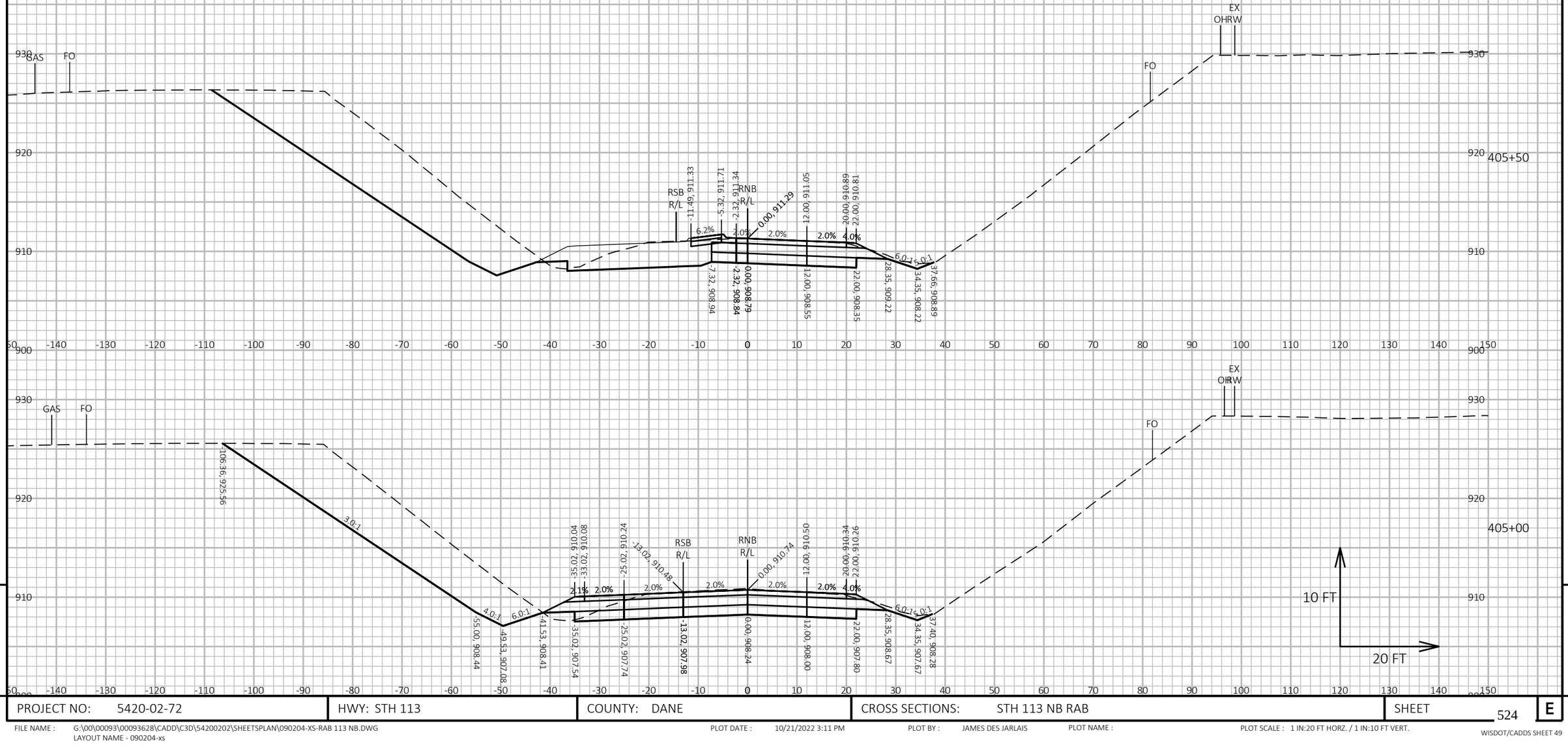
9

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: STH 113 NB RAB	SHEET 523	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090204-XS-RAB 113 NB.DWG
LAYOUT NAME - 090203-xs

PLOT DATE : 10/21/2022 3:11 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

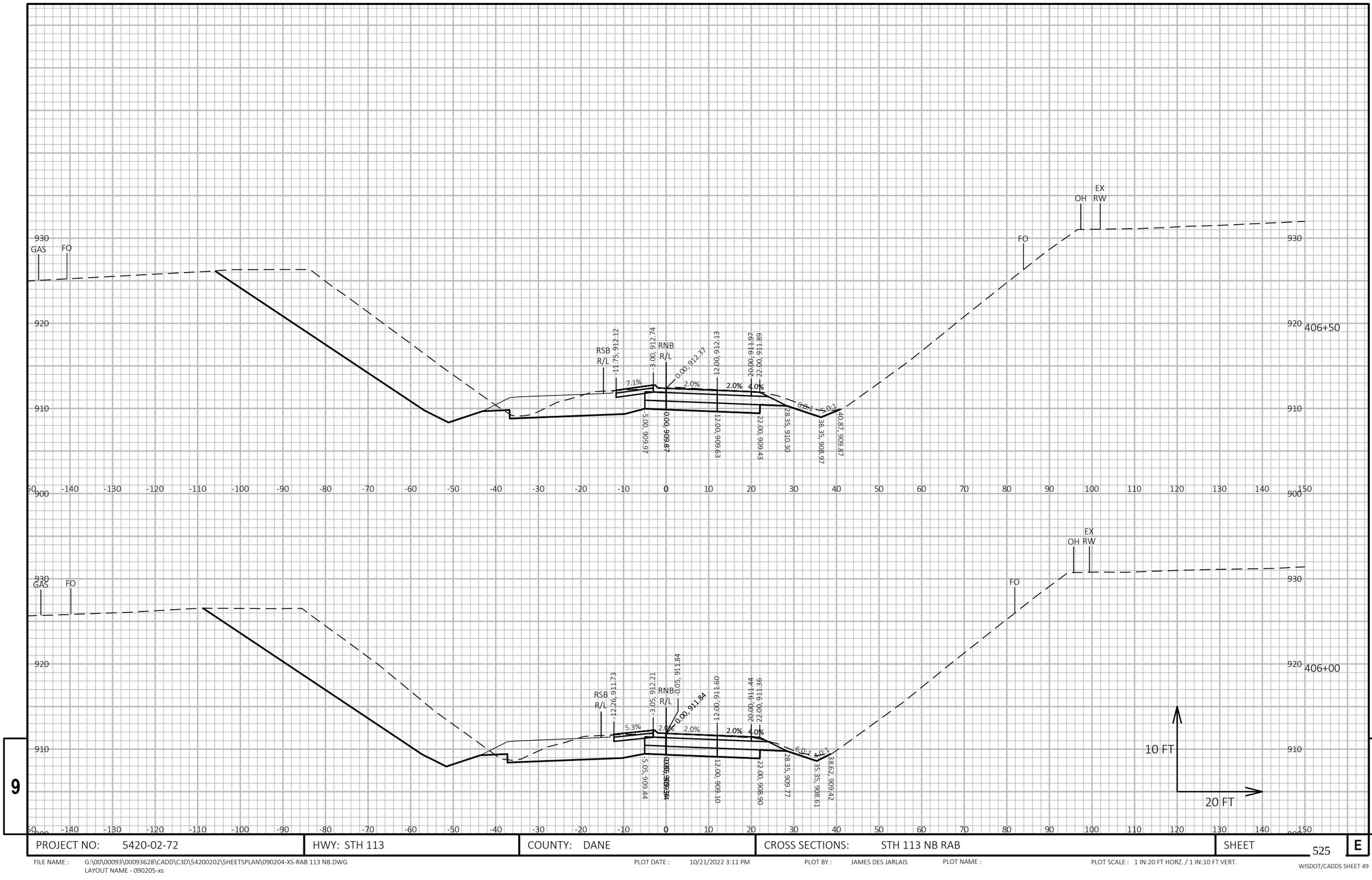
9

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: STH 113 NB RAB	SHEET 524	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090204-XS-RAB 113 NB.DWG
LAYOUT NAME - 090204-xs

PLOT DATE : 10/21/2022 3:11 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

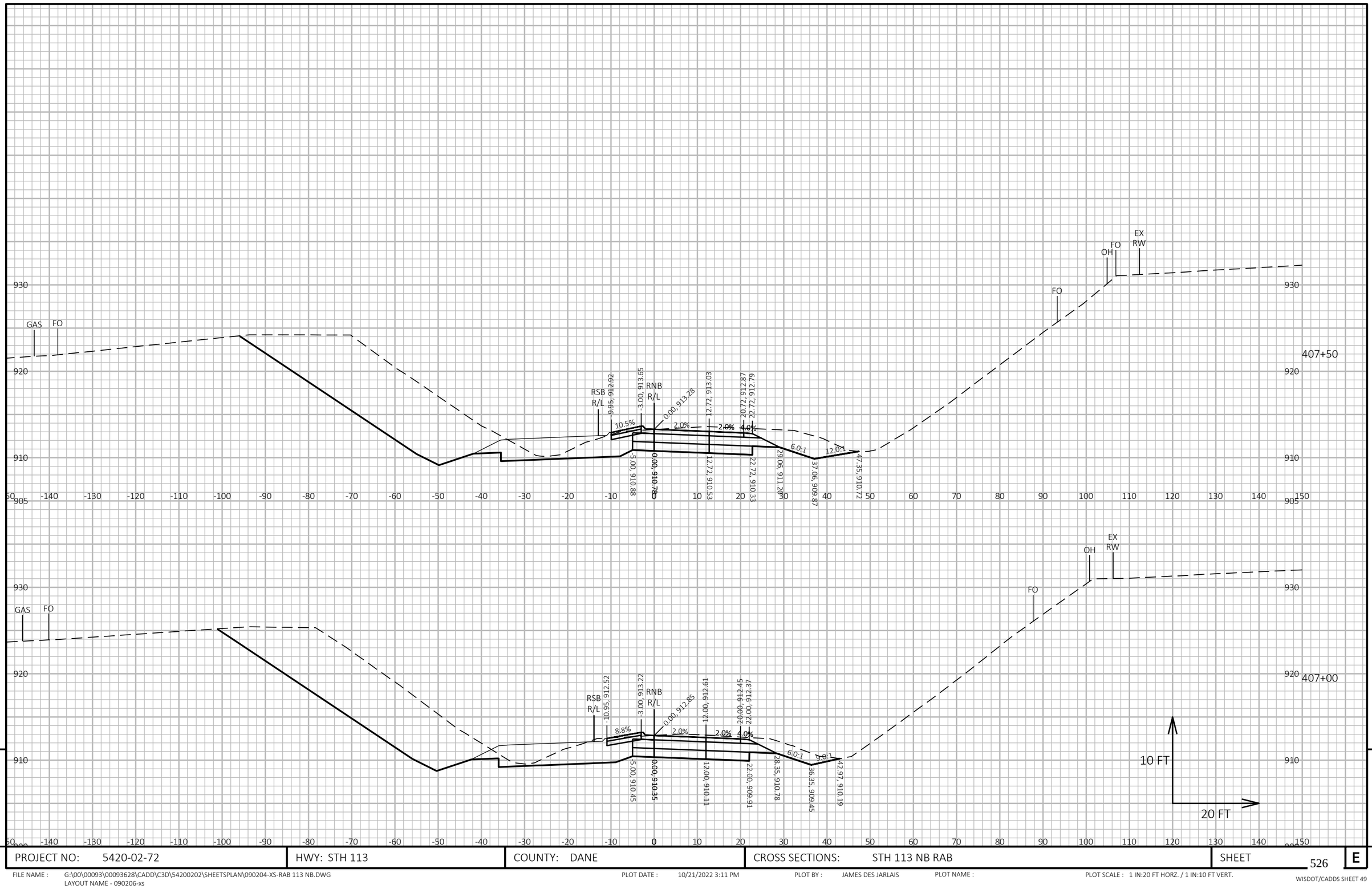
9

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: STH 113 NB RAB	SHEET 525	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090204-XS-RAB 113 NB.DWG
LAYOUT NAME - 090205-xs

PLOT DATE : 10/21/2022 3:11 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

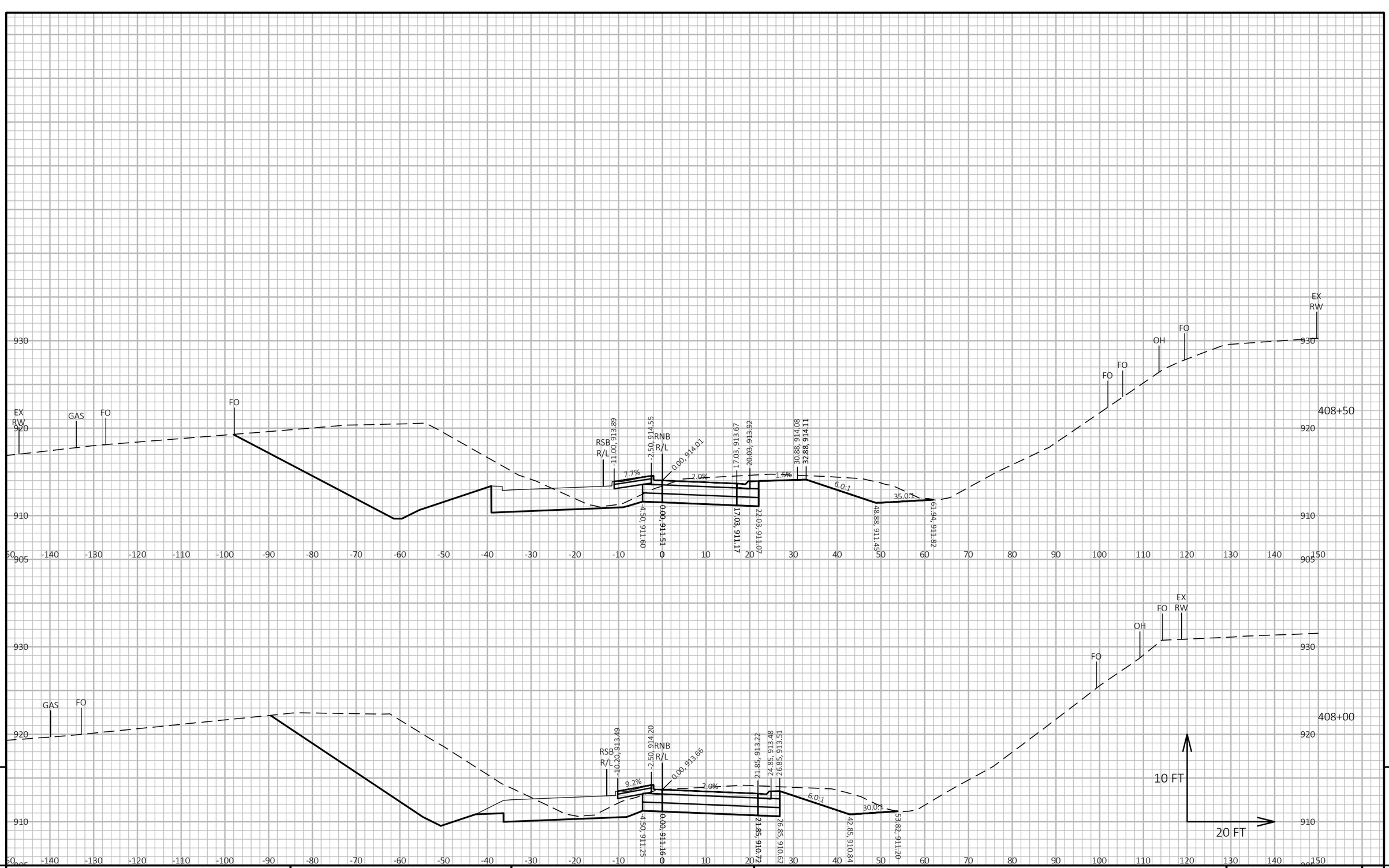
9

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: STH 113 NB RAB	SHEET 526	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090204-XS-RAB 113 NB.DWG
LAYOUT NAME - 090206-xs

PLOT DATE : 10/21/2022 3:11 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



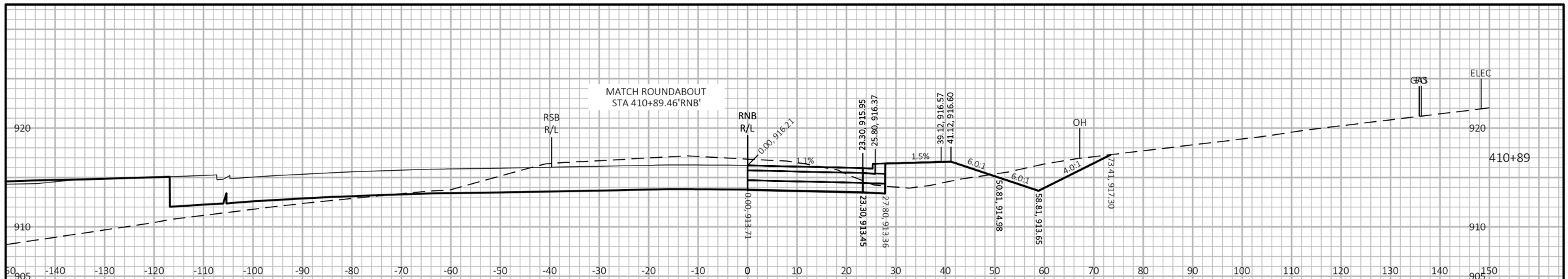
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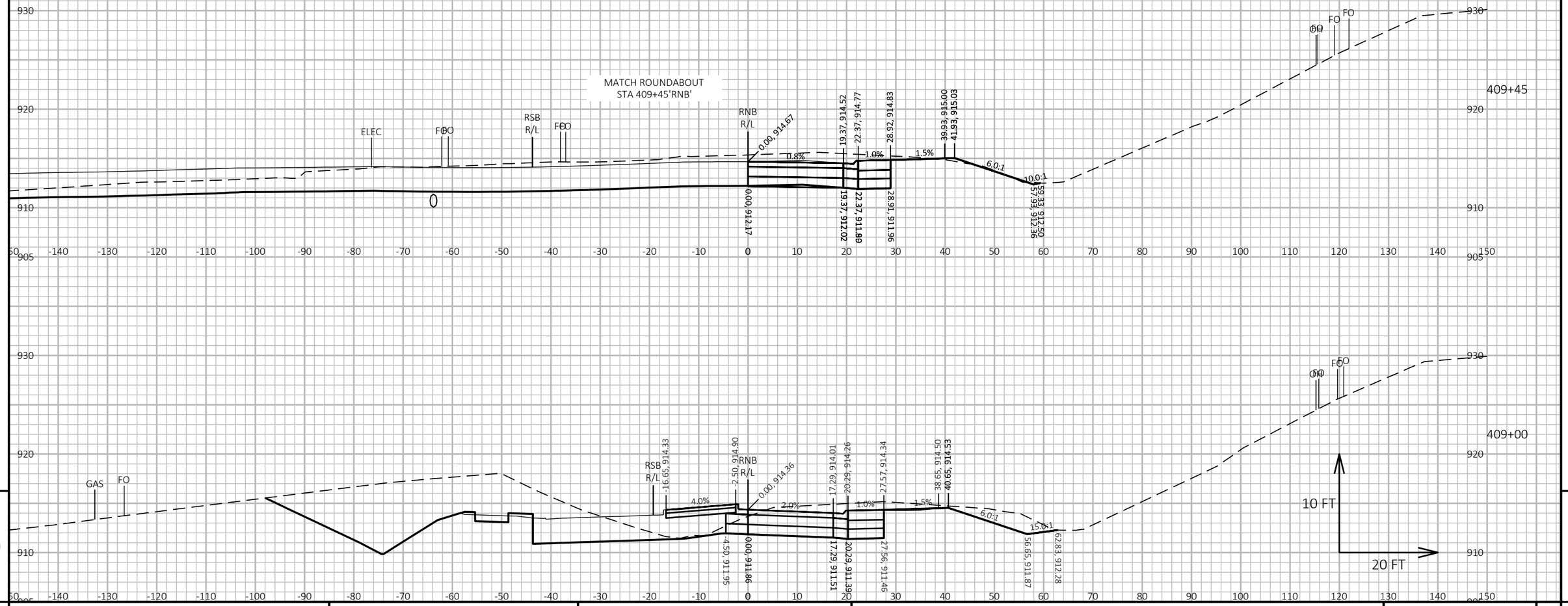
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: STH 113 NB RAB	SHEET 527	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090204-XS-RAB 113 NB.DWG
LAYOUT NAME - 090207-xs

PLOT DATE : 10/21/2022 3:11 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



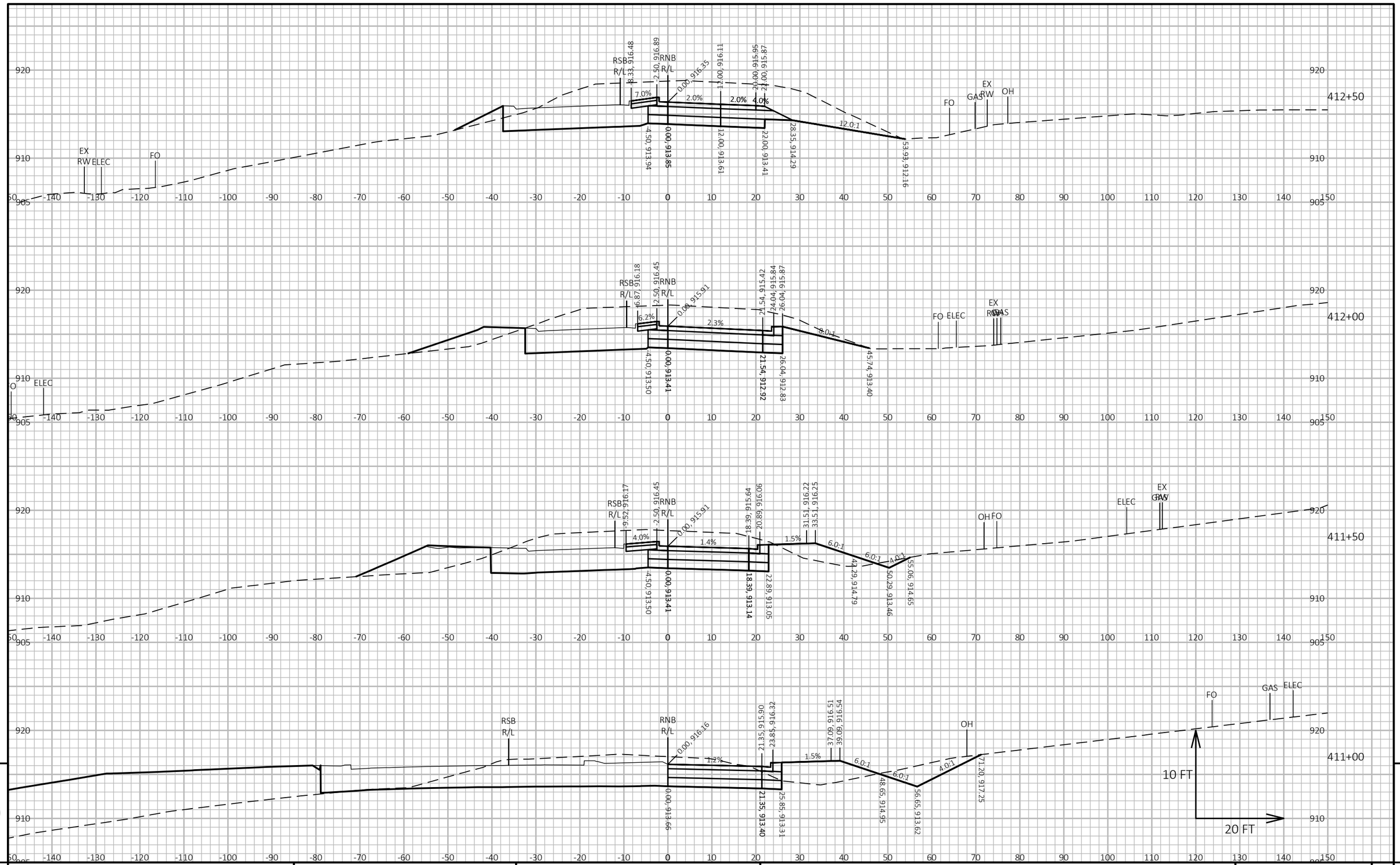


9 9

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: STH 113 NB RAB	SHEET 528	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090204-XS-RAB 113 NB.DWG
LAYOUT NAME - 090208-xs

PLOT DATE : 10/21/2022 3:11 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



9

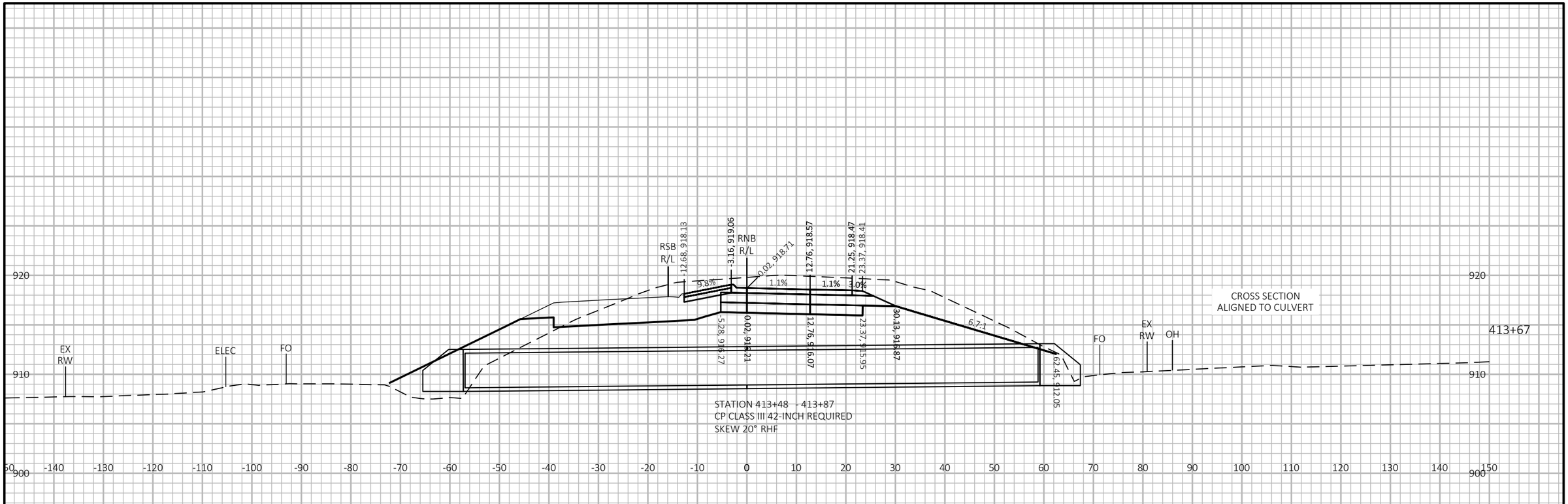
9

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: STH 113 NB RAB	SHEET 529	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090204-XS-RAB 113 NB.DWG
LAYOUT NAME - 090209-xs

PLOT DATE : 10/21/2022 3:11 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



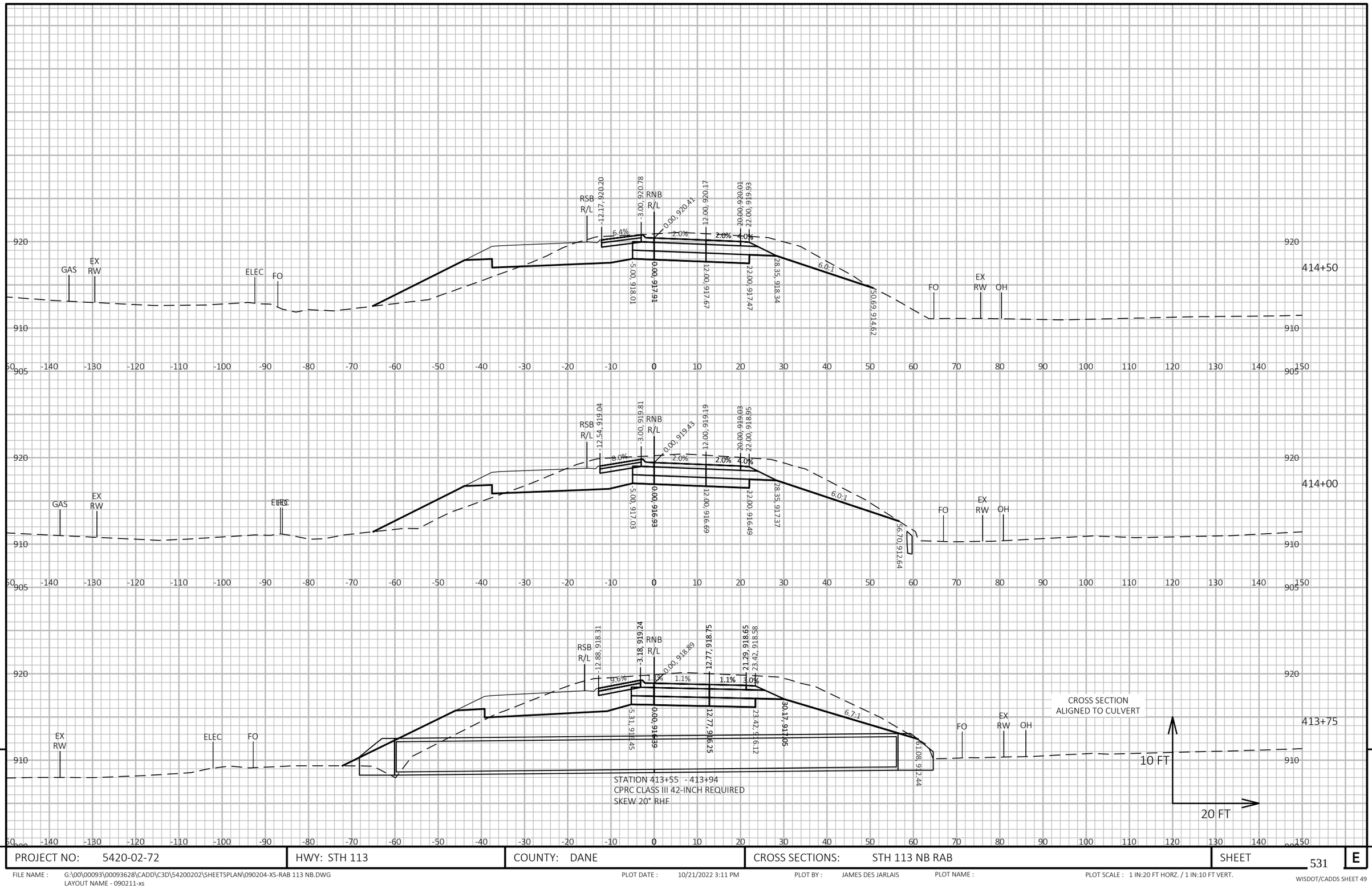
9

9

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: STH 113 NB RAB	SHEET 530	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090204-XS-RAB 113 NB.DWG
LAYOUT NAME - 090210-xs

PLOT DATE : 10/21/2022 3:11 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.



9

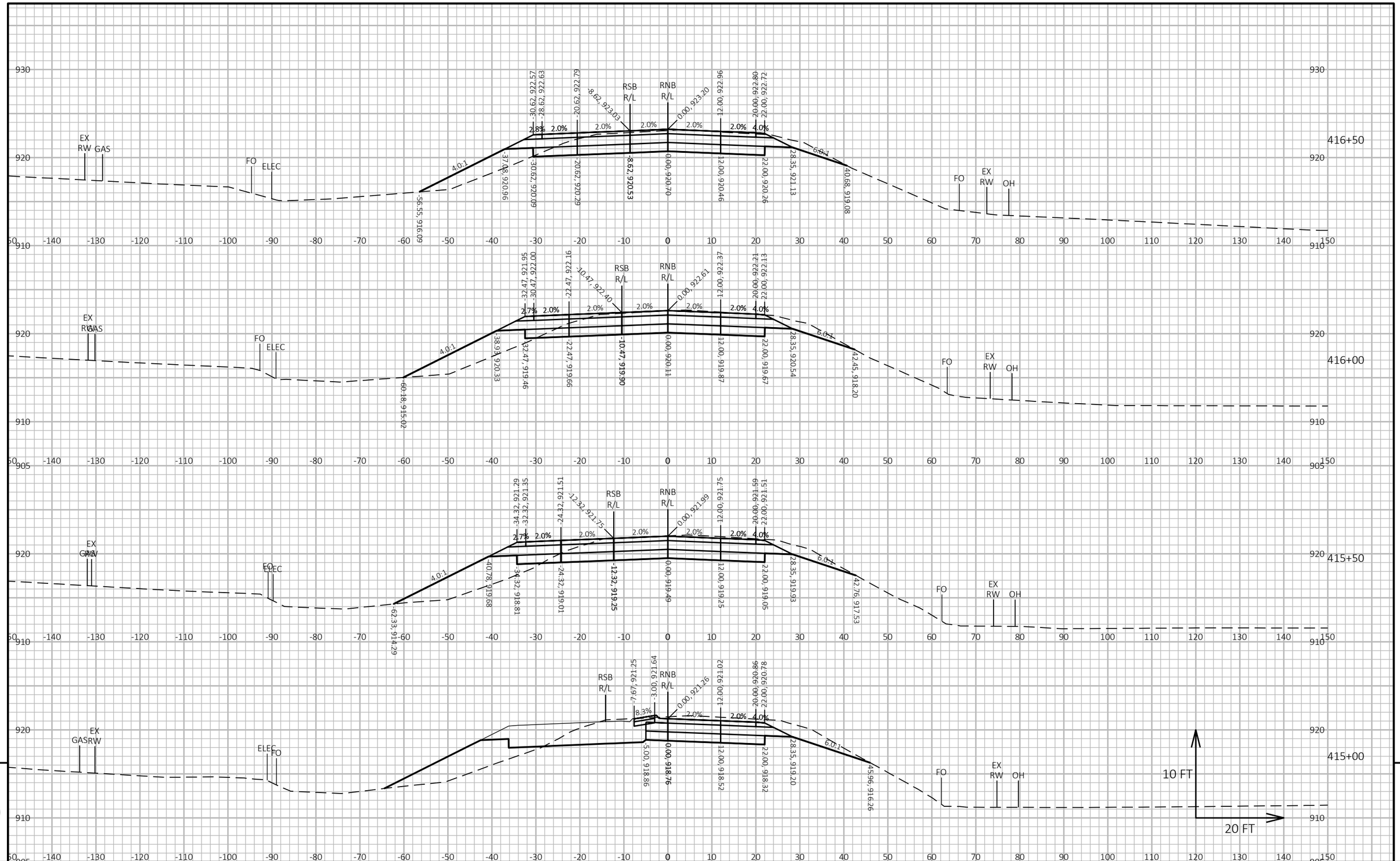
9

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: STH 113 NB RAB	SHEET 531	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090204-XS-RAB 113 NB.DWG
LAYOUT NAME - 090211-xs

PLOT DATE : 10/21/2022 3:11 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

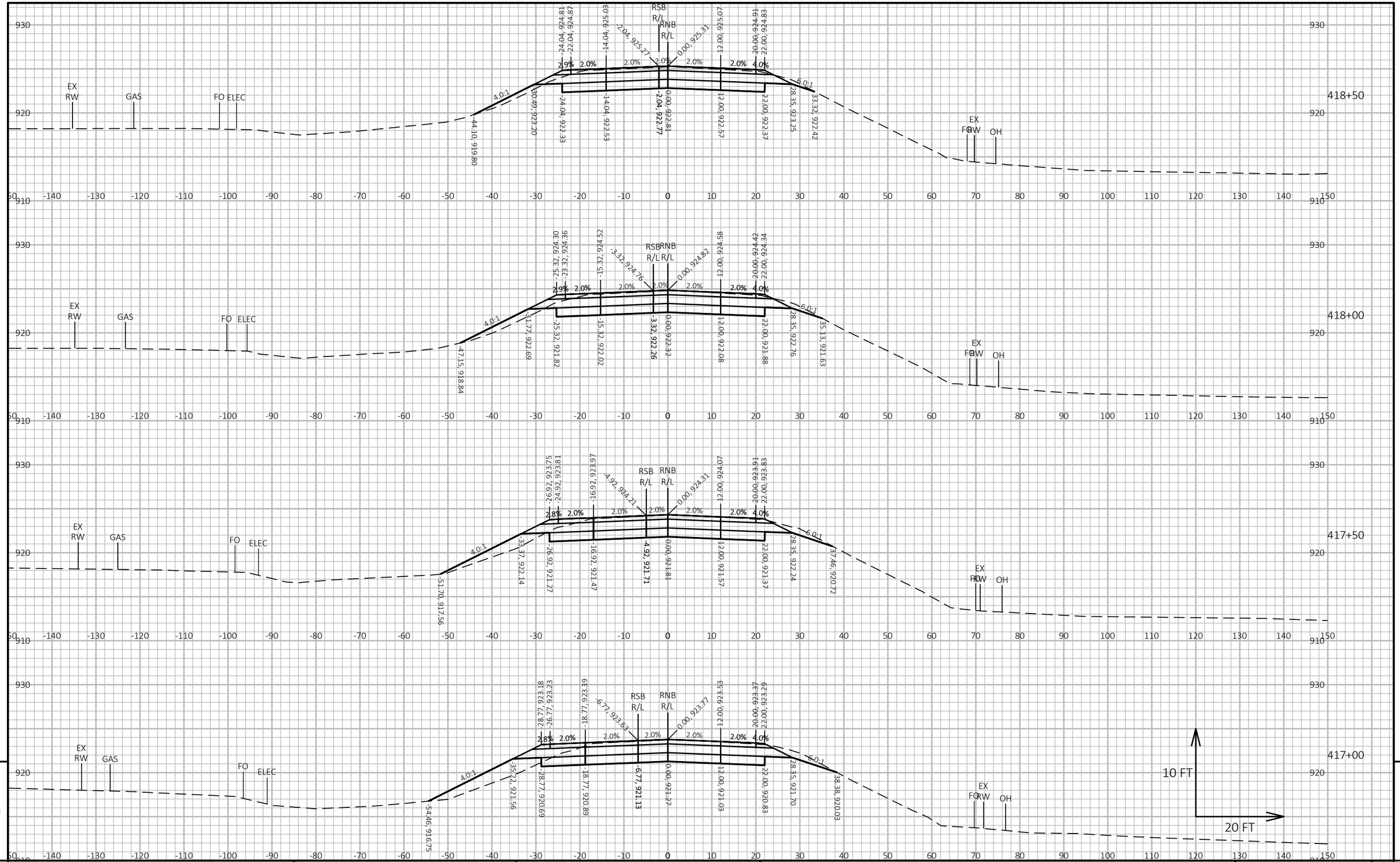


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: STH 113 NB RAB	SHEET 532	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090204-XS-RAB 113 NB.DWG
LAYOUT NAME - 090212-xs

PLOT DATE : 10/21/2022 3:11 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

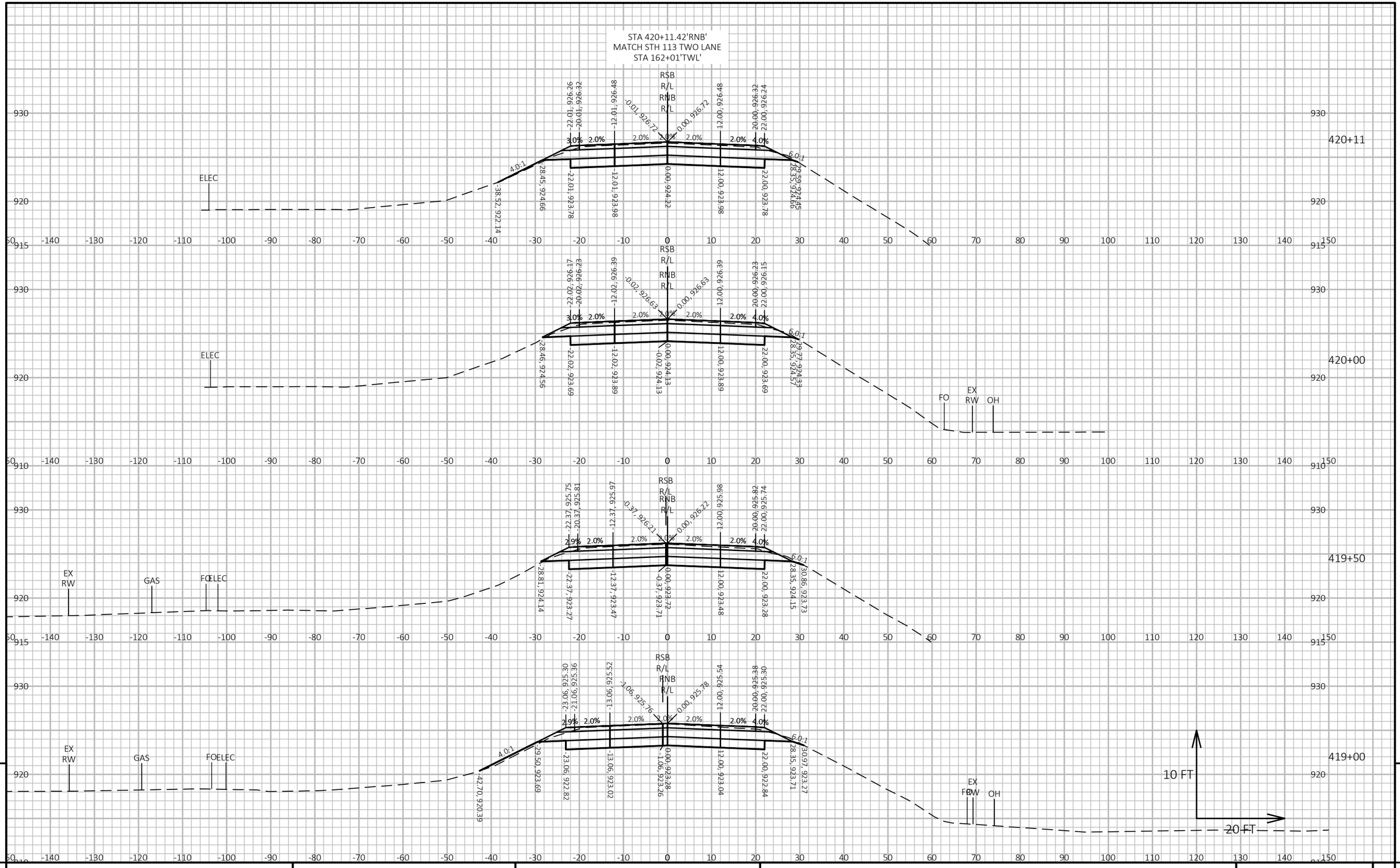
9

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: STH 113 NB RAB	SHEET 533	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090204-XS-RAB 113 NB.DWG
LAYOUT NAME - 090213-xs

PLOT DATE : 10/21/2022 3:11 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

STA 420+11.42'RNB'
MATCH STH 113 TWO LANE
STA 162+01'TWL'

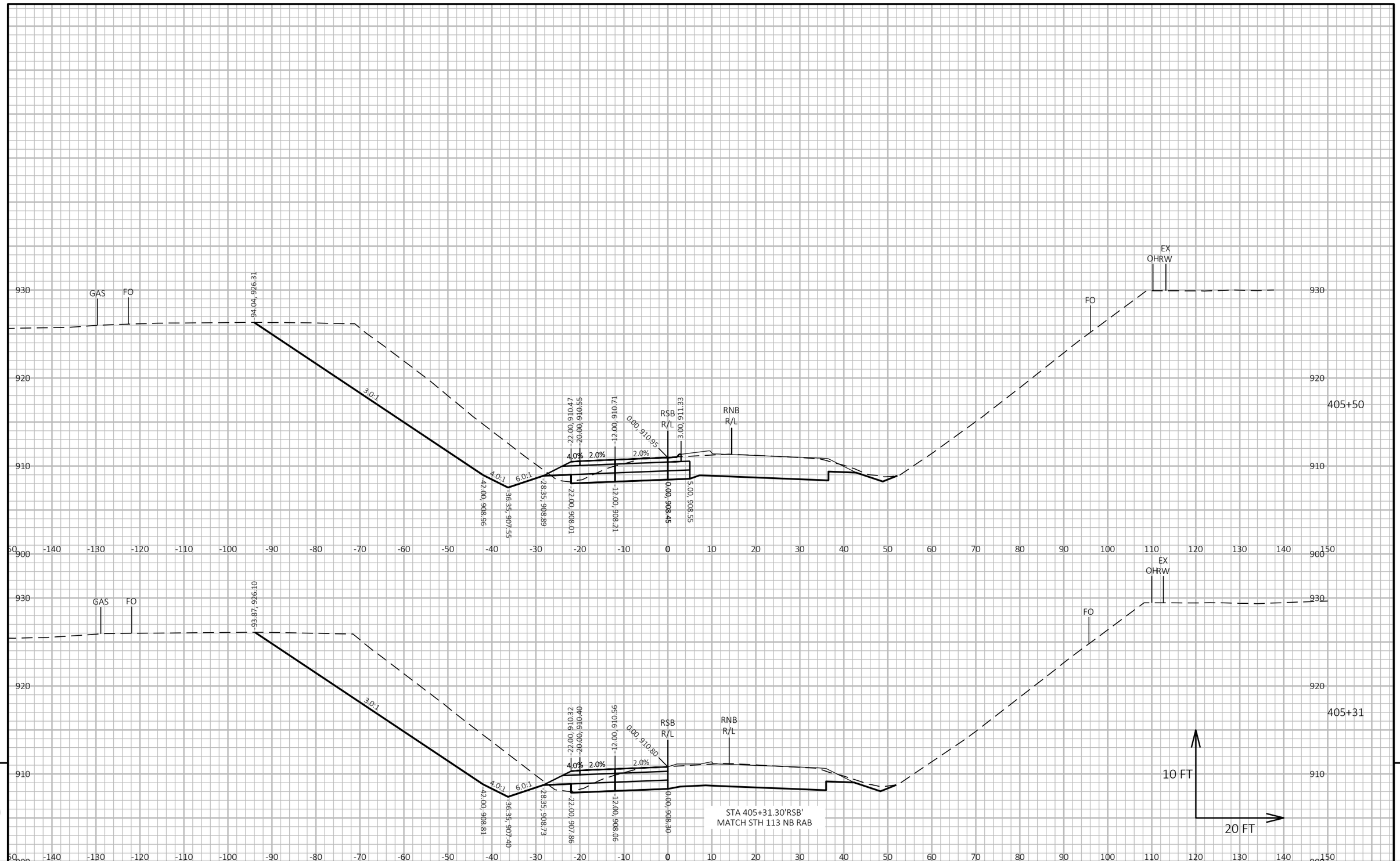


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: STH 113 NB RAB	SHEET 534 E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090204-XS-RAB 113 NB.DWG
LAYOUT NAME - 090214-xs

PLOT DATE : 10/21/2022 3:11 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

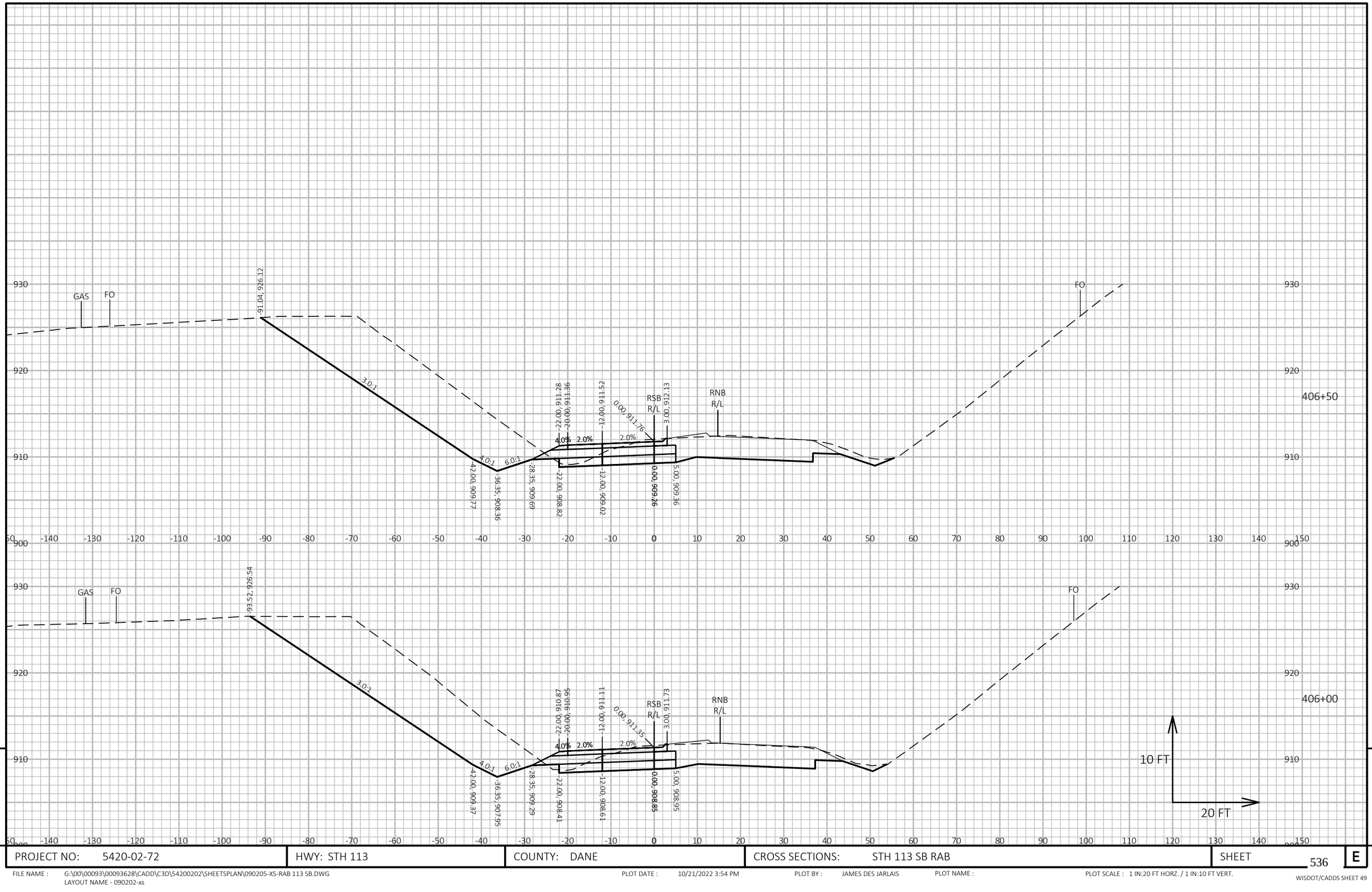
9

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: STH 113 SB RAB	SHEET 535	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090205-XS-RAB 113 SB.DWG
LAYOUT NAME - 090201-xs

PLOT DATE : 10/21/2022 3:53 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

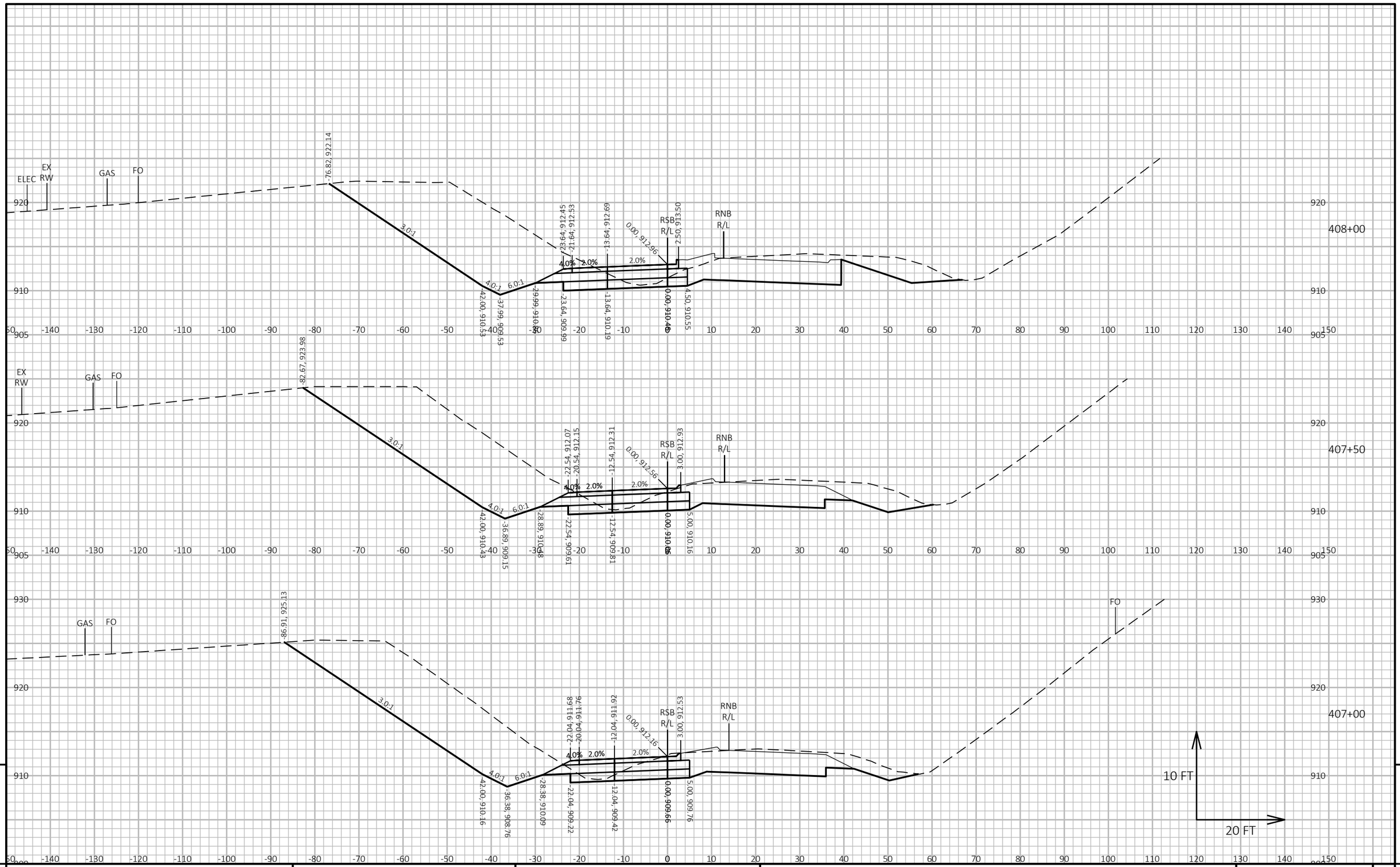
9

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: STH 113 SB RAB	SHEET 536	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090205-XS-RAB 113 SB.DWG
LAYOUT NAME - 090202-xs

PLOT DATE : 10/21/2022 3:54 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

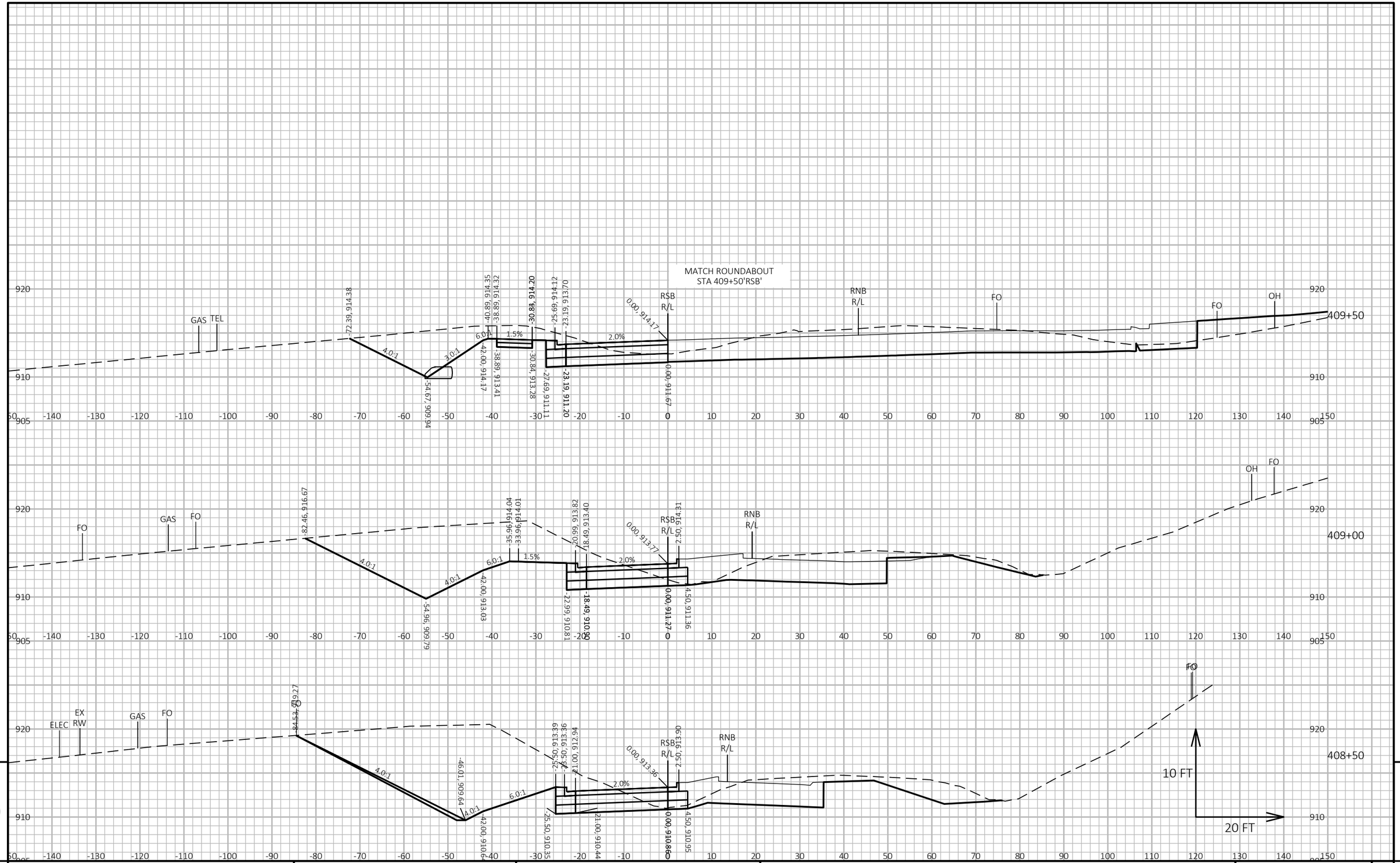


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: STH 113 SB RAB	SHEET 537 E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090205-XS-RAB 113 SB.DWG
LAYOUT NAME - 090203-xs

PLOT DATE : 10/21/2022 3:54 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

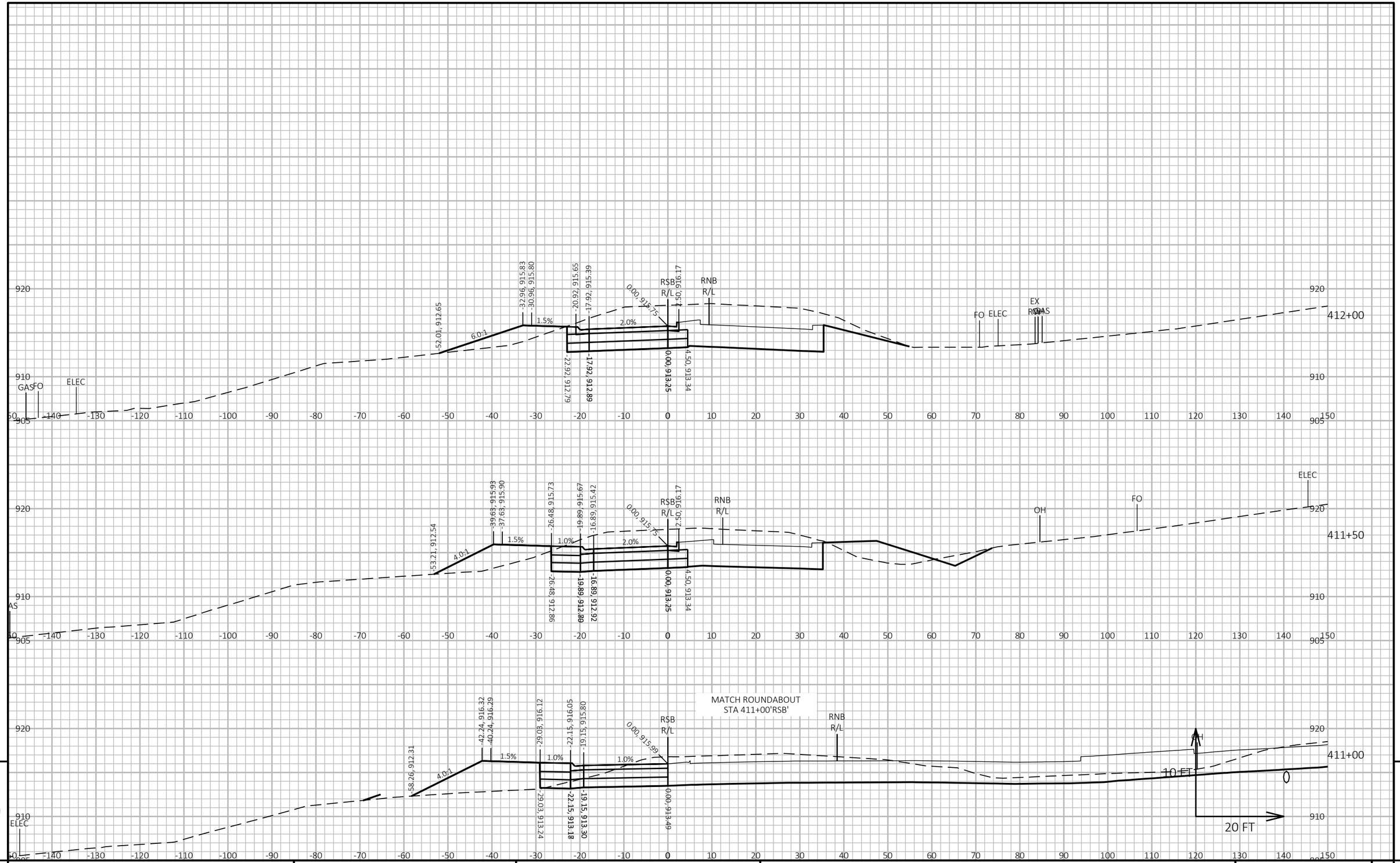


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: STH 113 SB RAB	SHEET 538 E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090205-XS-RAB 113 SB.DWG
LAYOUT NAME - 090204-xs

PLOT DATE : 10/21/2022 3:54 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

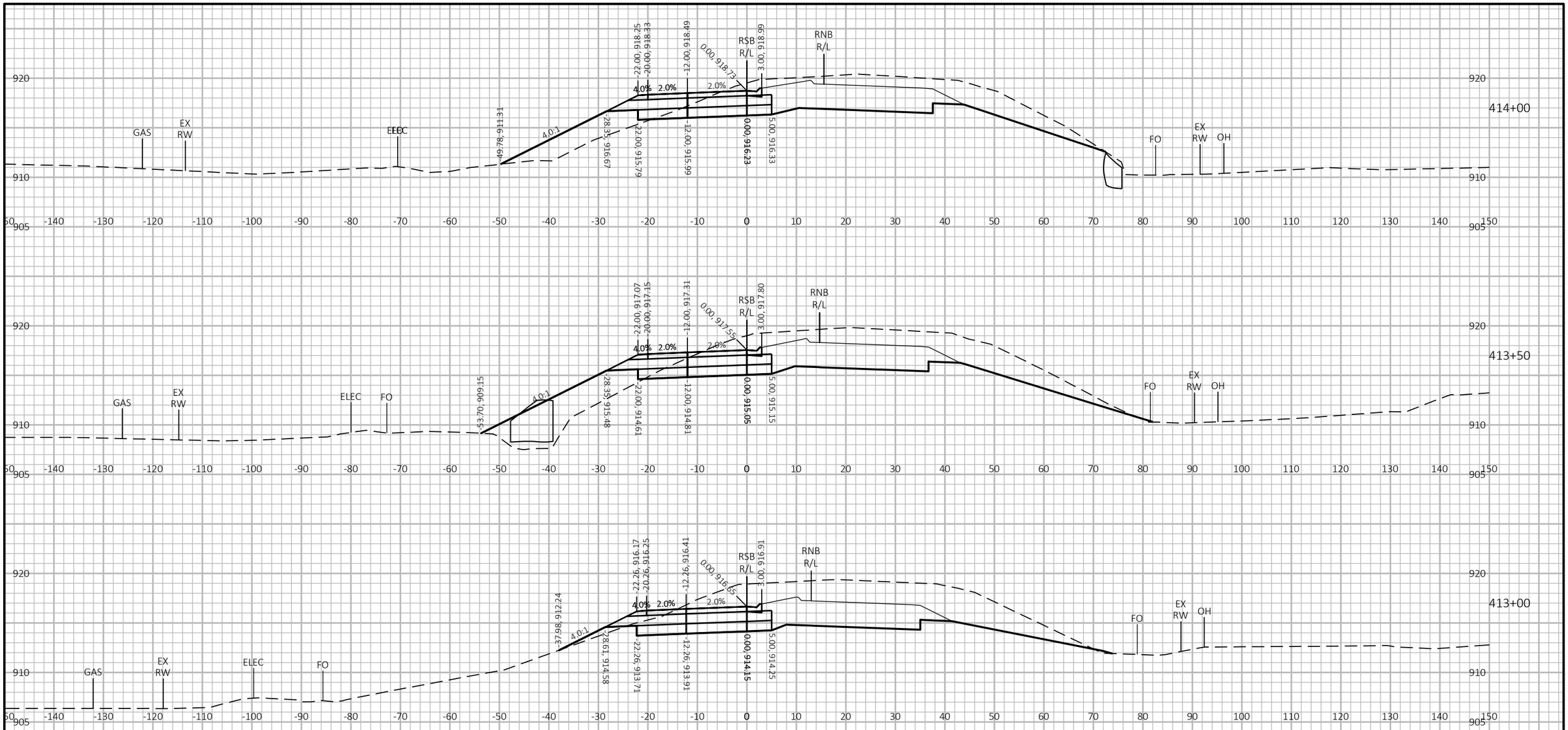


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: STH 113 SB RAB	SHEET 539 E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090205-XS-RAB 113 SB.DWG
LAYOUT NAME - 090205-xs

PLOT DATE : 10/21/2022 3:54 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: STH 113 SB RAB	SHEET 540	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090205-XS-RAB 113 SB.DWG
LAYOUT NAME - 090206-xs

PLOT DATE : 10/21/2022 3:54 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

STA 415+10.53'RSB'
MATCH STH 113 NB RAB

50.15, 913.55
28.35, 919.00
22.00, 920.55
20.00, 920.67
22.00, 918.13
12.00, 920.83
12.00, 918.33
0.00, 921.07
0.00, 918.57
RSB R/L
RNB R/L
4.0:1
2.0%
4.0%
EX GAS
EX RW
ELEC
FO
EX RW
OH

415+11

50.32, 913.32
28.35, 918.82
22.00, 920.40
20.00, 920.48
22.00, 917.64
12.00, 920.64
12.00, 918.14
0.00, 920.88
0.00, 918.38
3.22, 920.95
3.22, 918.45
6.22, 921.20
8.22, 918.55
RSB R/L
RNB R/L

415+00

49.69, 912.49
28.35, 917.82
22.00, 919.41
20.00, 919.49
22.00, 916.95
12.00, 919.65
12.00, 917.15
0.00, 919.89
0.00, 917.39
0.24, 919.89
3.24, 920.15
5.24, 917.49
RSB R/L
RNB R/L

414+50

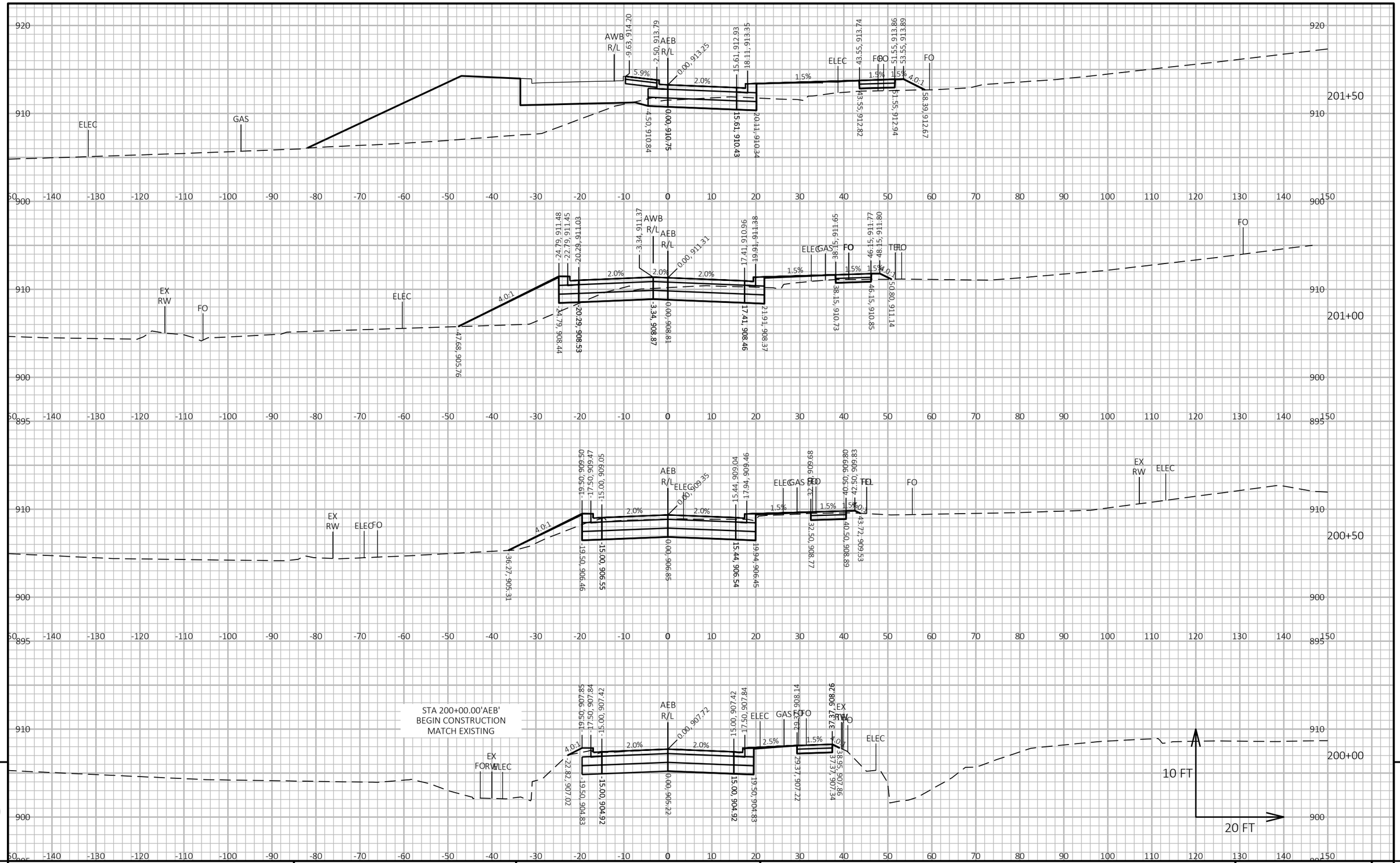
10 FT
20 FT

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: STH 113 SB RAB	SHEET 541	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090205-XS-RAB 113 SB.DWG
LAYOUT NAME - 090207-xs

PLOT DATE : 10/21/2022 3:54 PM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

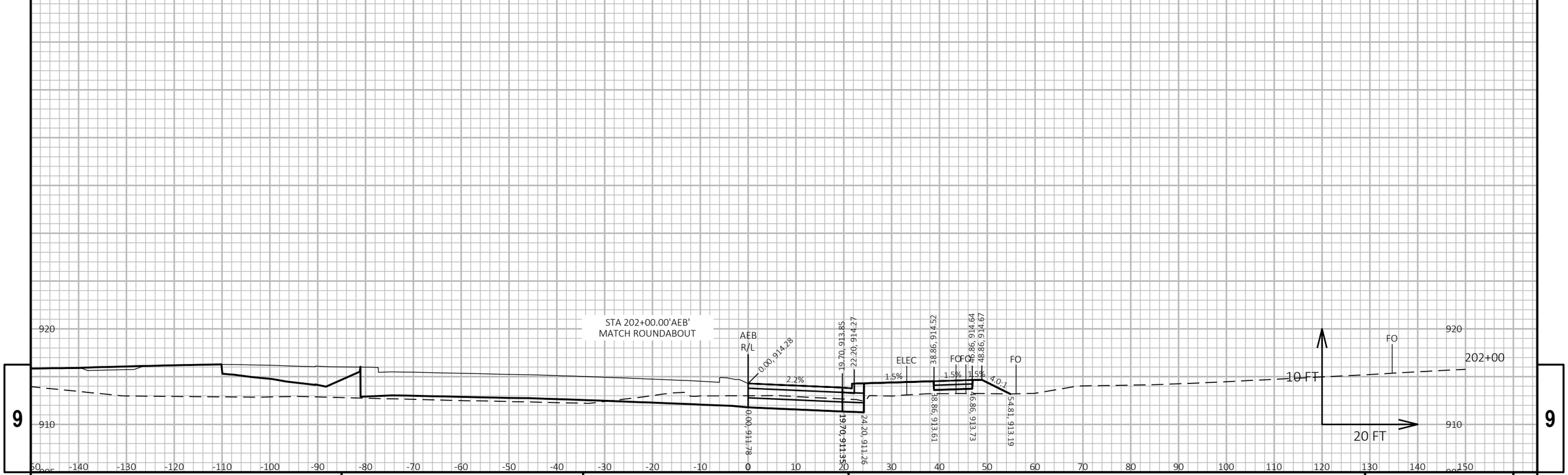


PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: ARBORETUM DR EB	SHEET 542 E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090206-XS-ARB EB.DWG
LAYOUT NAME - 090201-xs

PLOT DATE : 10/24/2022 10:14 AM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: ARBORETUM DR EB	SHEET 543	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090206-XS-ARB EB.DWG
LAYOUT NAME - 090202-xs

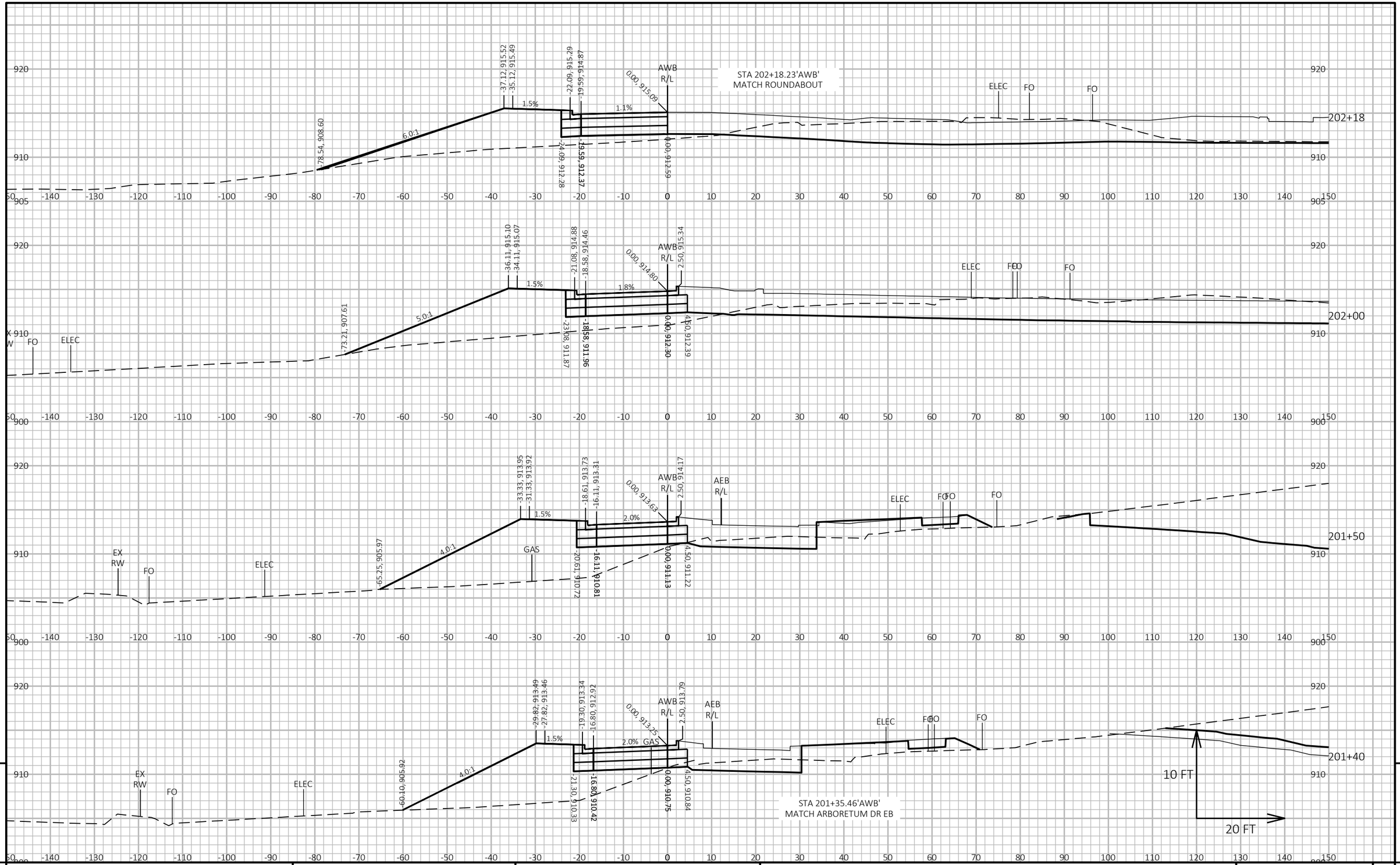
PLOT DATE : 10/24/2022 10:14 AM

PLOT BY : JAMES DES JARLAIS

PLOT NAME :

PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

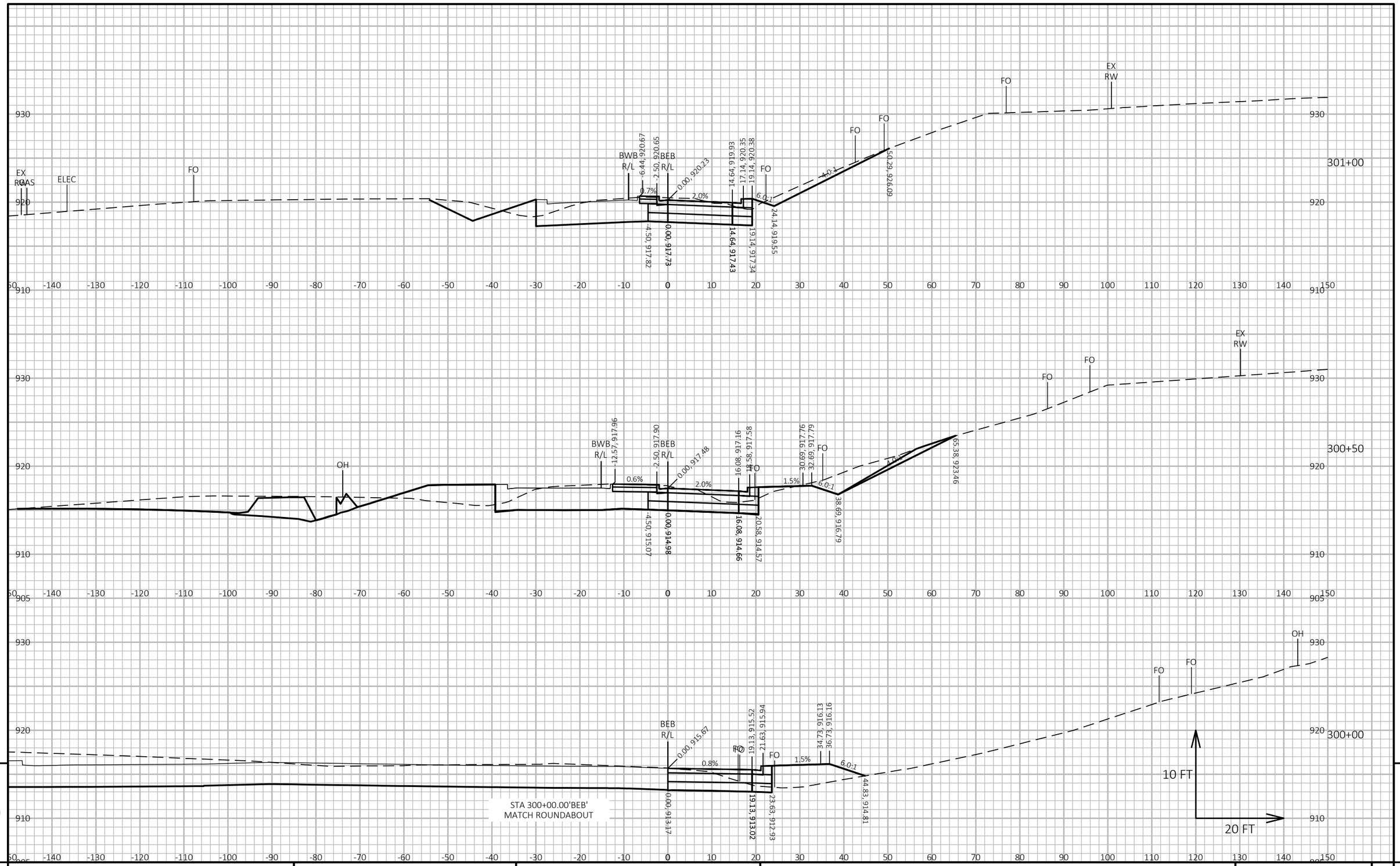
9

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: ARBORETUM DR WB	SHEET 544	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090207-XS-ARB WB.DWG
LAYOUT NAME - 090201-xs

PLOT DATE : 10/24/2022 9:44 AM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

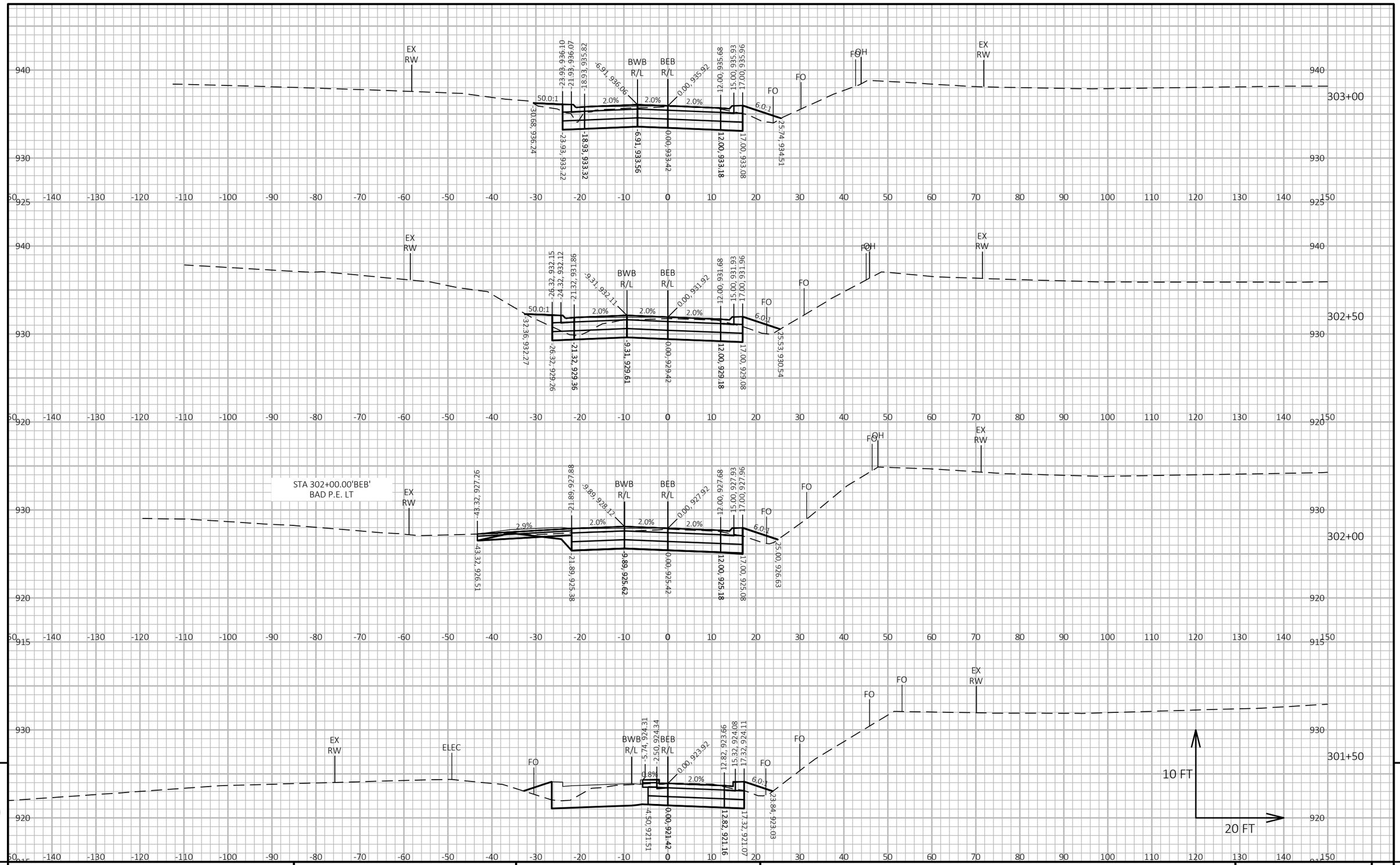
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: BONG RD EB	SHEET 545	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090208-XS-BONG EB.DWG
LAYOUT NAME - 090201-xs

PLOT DATE : 10/24/2022 9:51 AM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

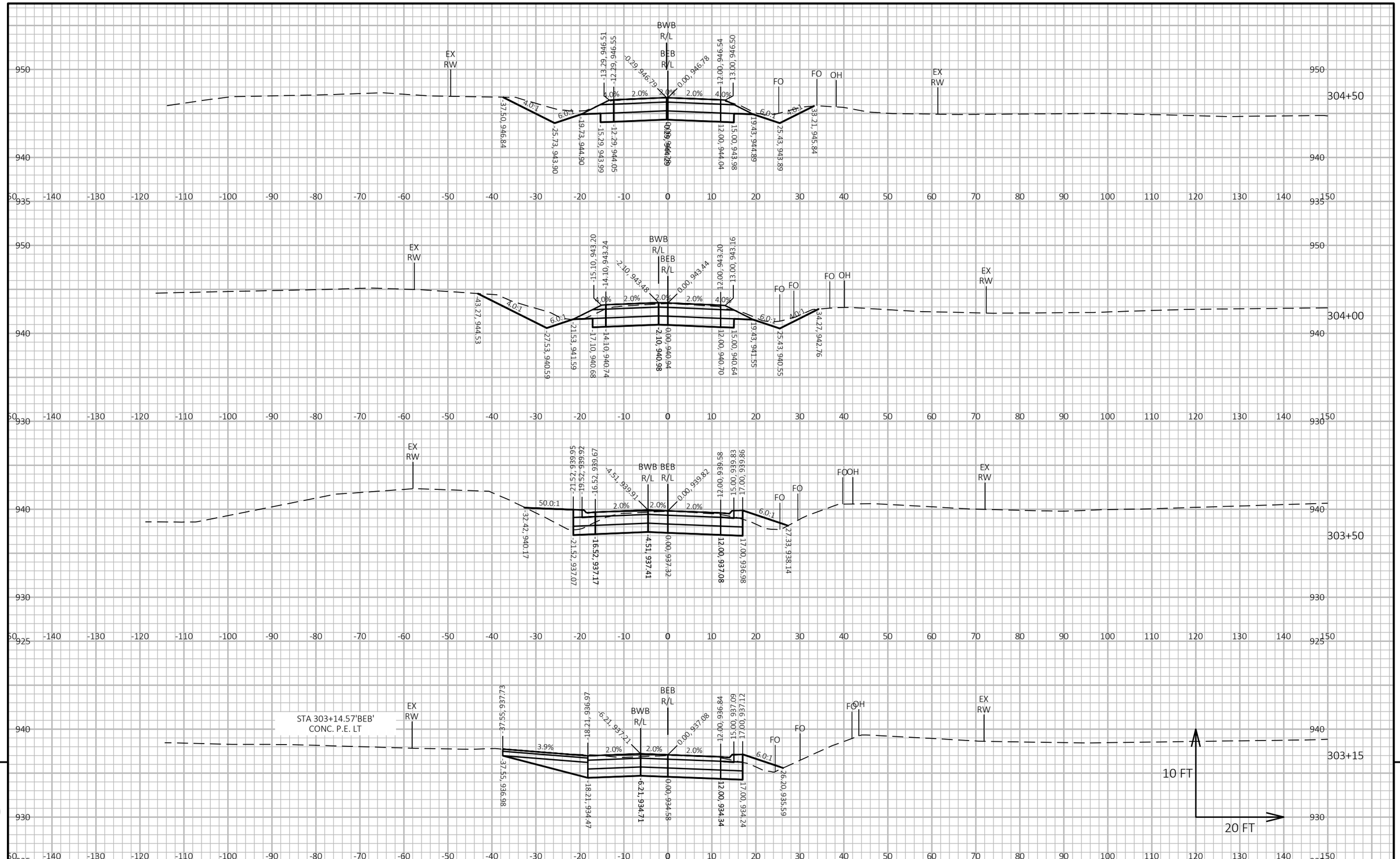
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: BONG RD EB	SHEET 546	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090208-XS-BONG EB.DWG
LAYOUT NAME - 090202-xs

PLOT DATE : 10/24/2022 9:51 AM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

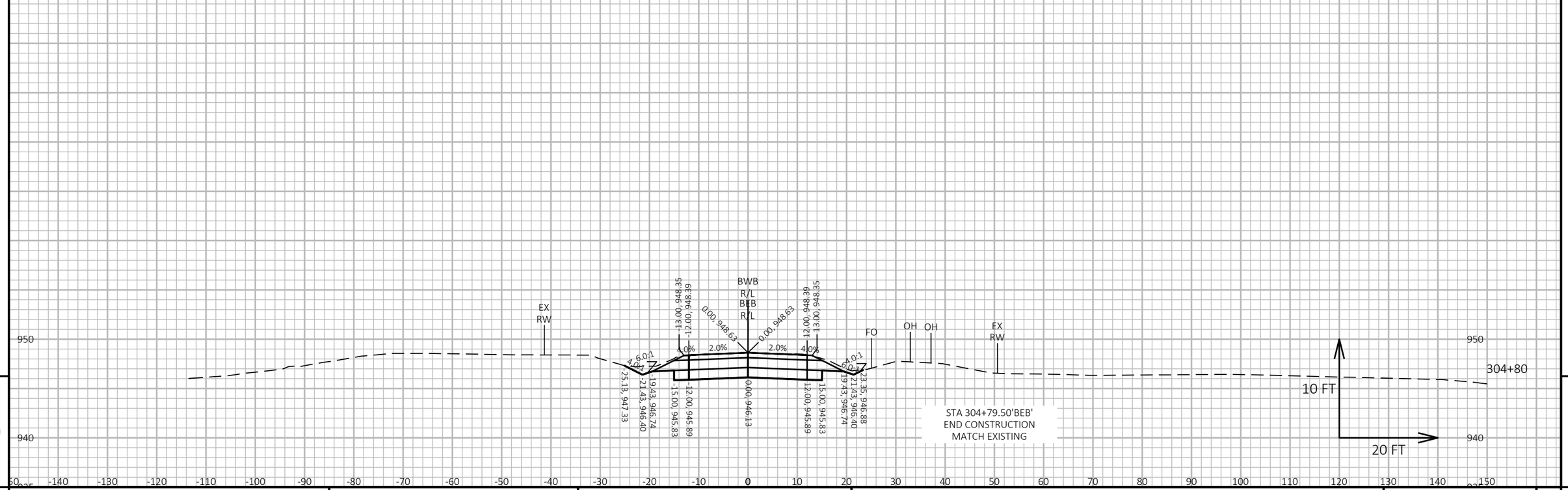
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: BONG RD EB	SHEET 547	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090208-XS-BONG EB.DWG
LAYOUT NAME - 090203-xs

PLOT DATE : 10/24/2022 9:51 AM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

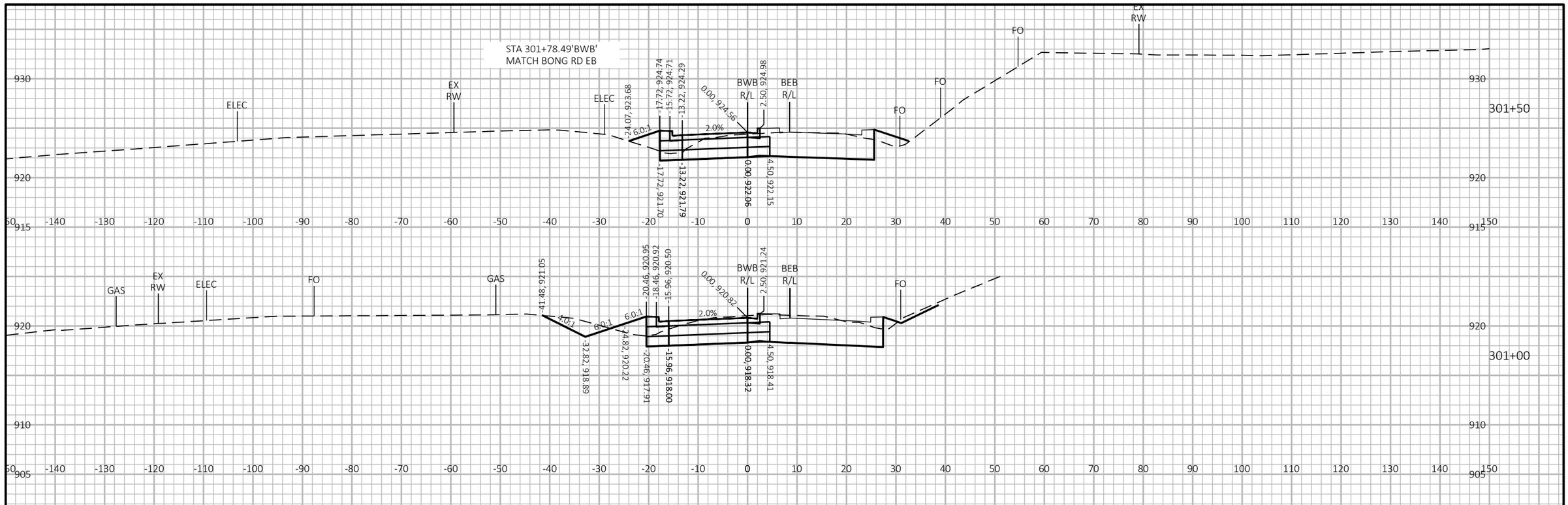
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PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: BONG RD EB	SHEET 548	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090208-XS-BONG EB.DWG
LAYOUT NAME - 090204-xs

PLOT DATE : 10/24/2022 9:51 AM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

STA 301+78.49'BWB'
MATCH BONG RD EB



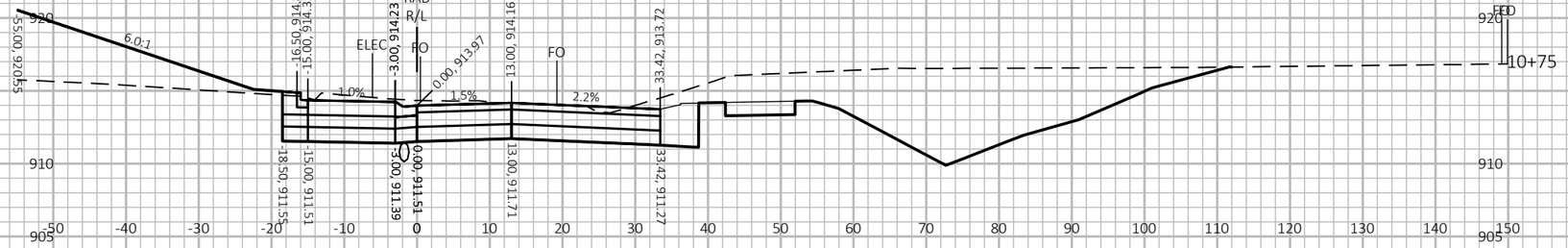
STA 300+00.00'BWB'
MATCH ROUNDABOUT

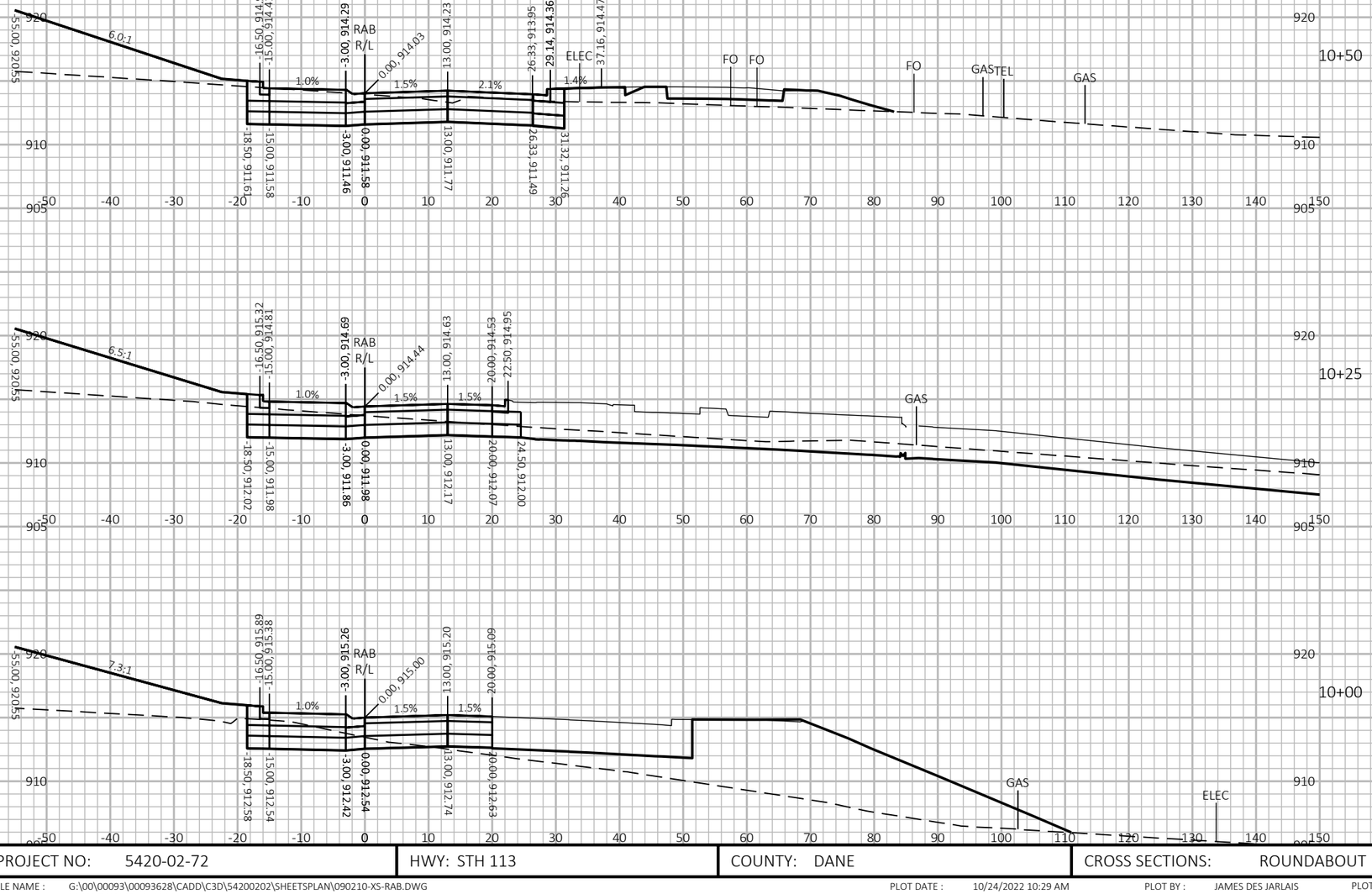
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: BONG RD WB	SHEET 549	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090209-XS-BONG WB.DWG
LAYOUT NAME - 090201-xs

PLOT DATE : 10/24/2022 9:12 AM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49





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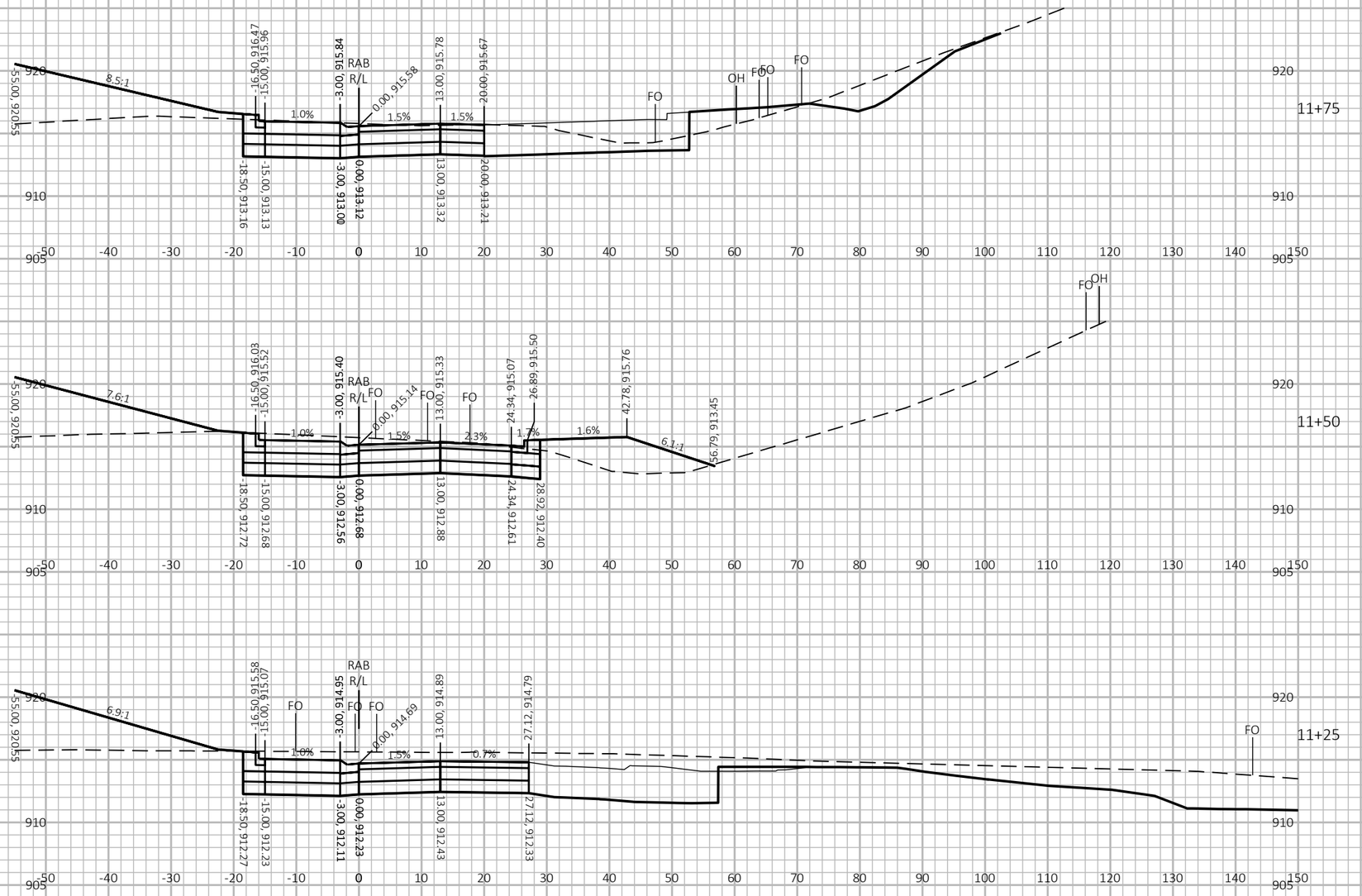
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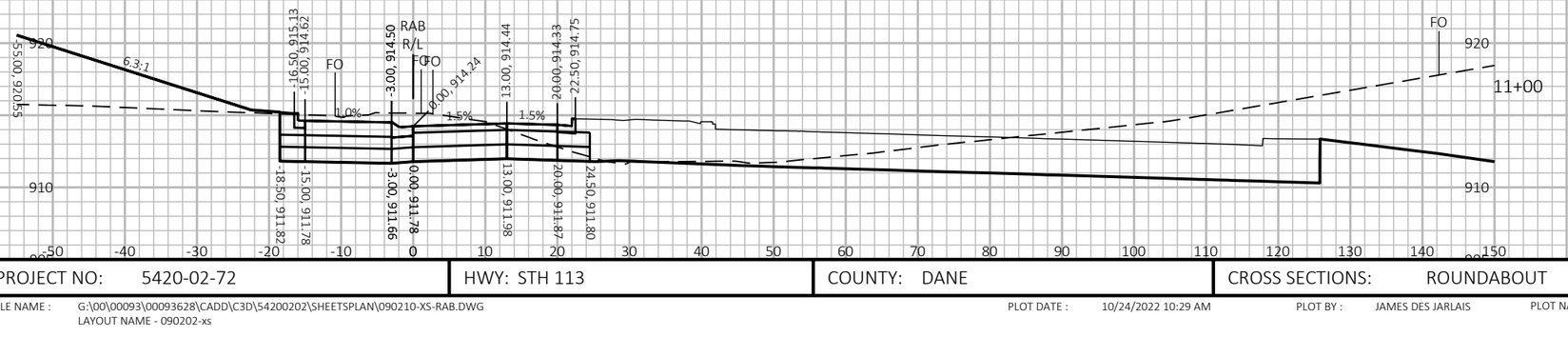
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: ROUNDABOUT	SHEET 550	E

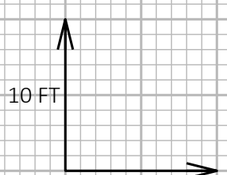
FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090210-XS-RAB.DWG
LAYOUT NAME - 090201-xs

PLOT DATE : 10/24/2022 10:29 AM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







9

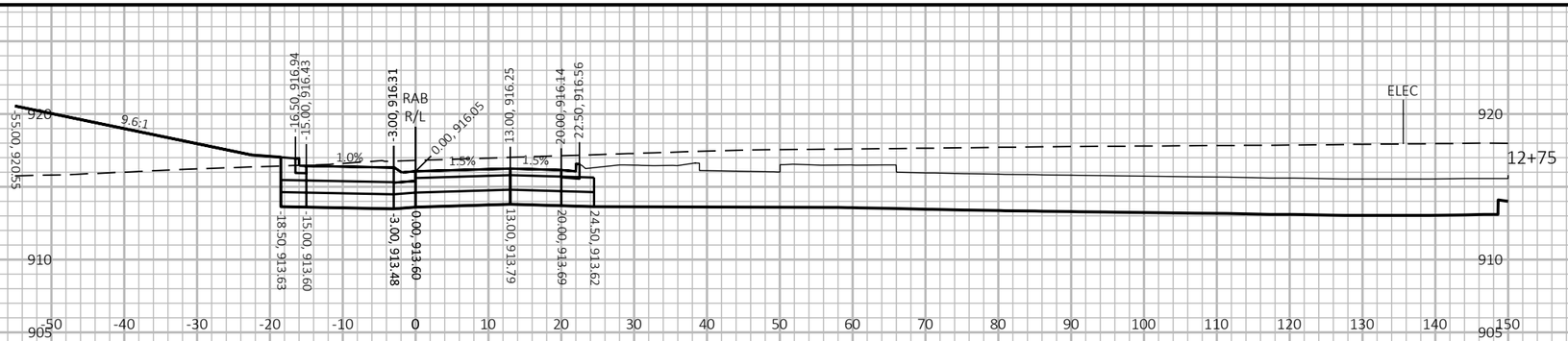
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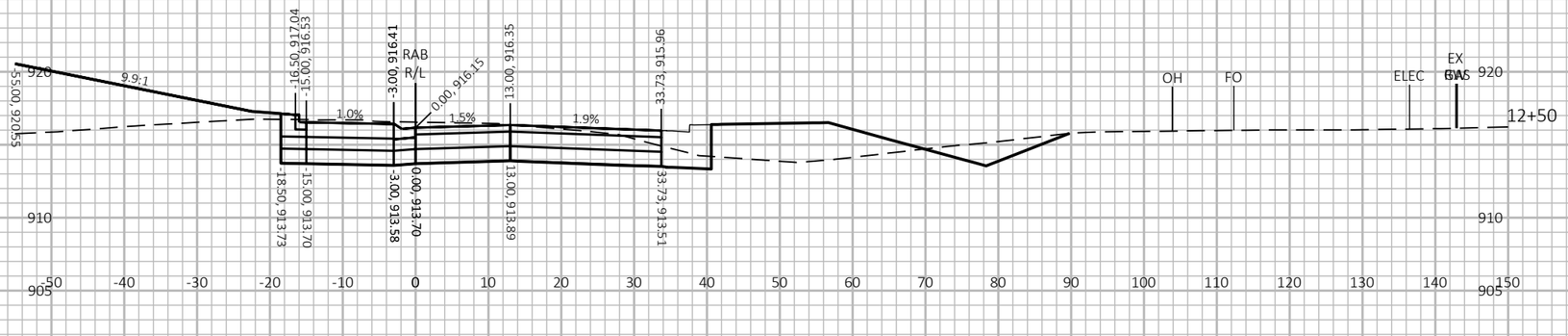
PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: ROUNDABOUT	SHEET 551	E

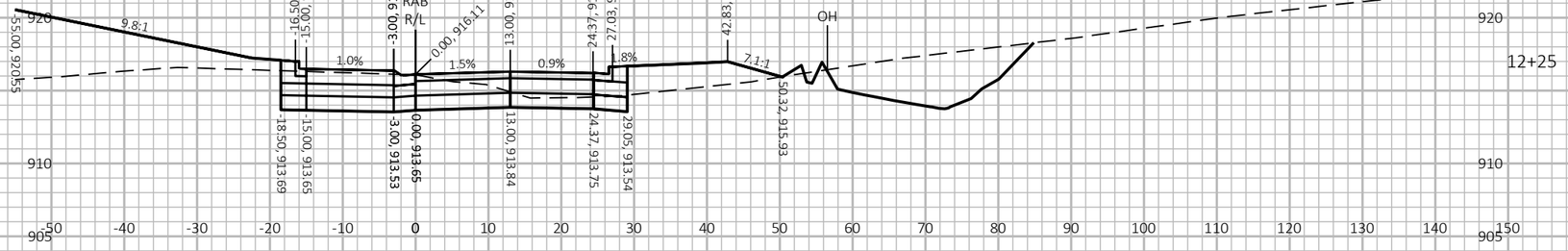
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LAYOUT NAME - 090202-xs

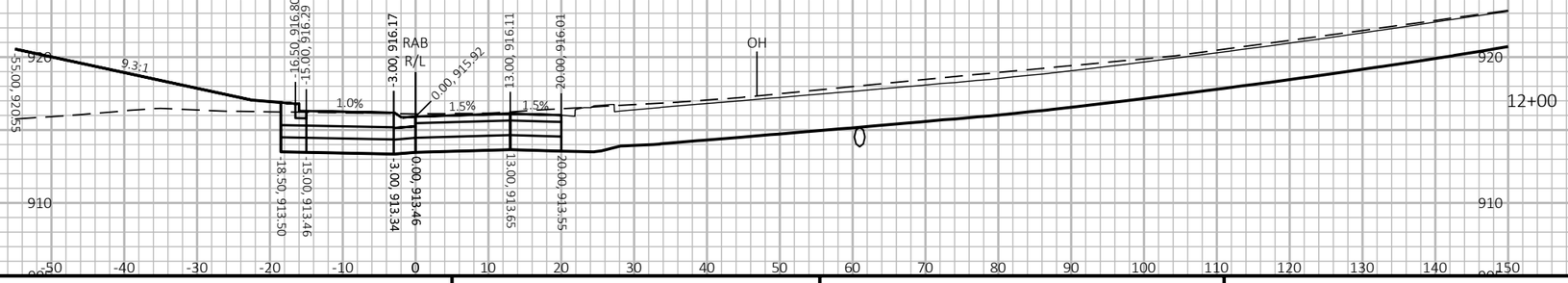
PLOT DATE : 10/24/2022 10:29 AM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

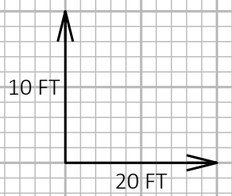
WISDOT/CADDS SHEET 49











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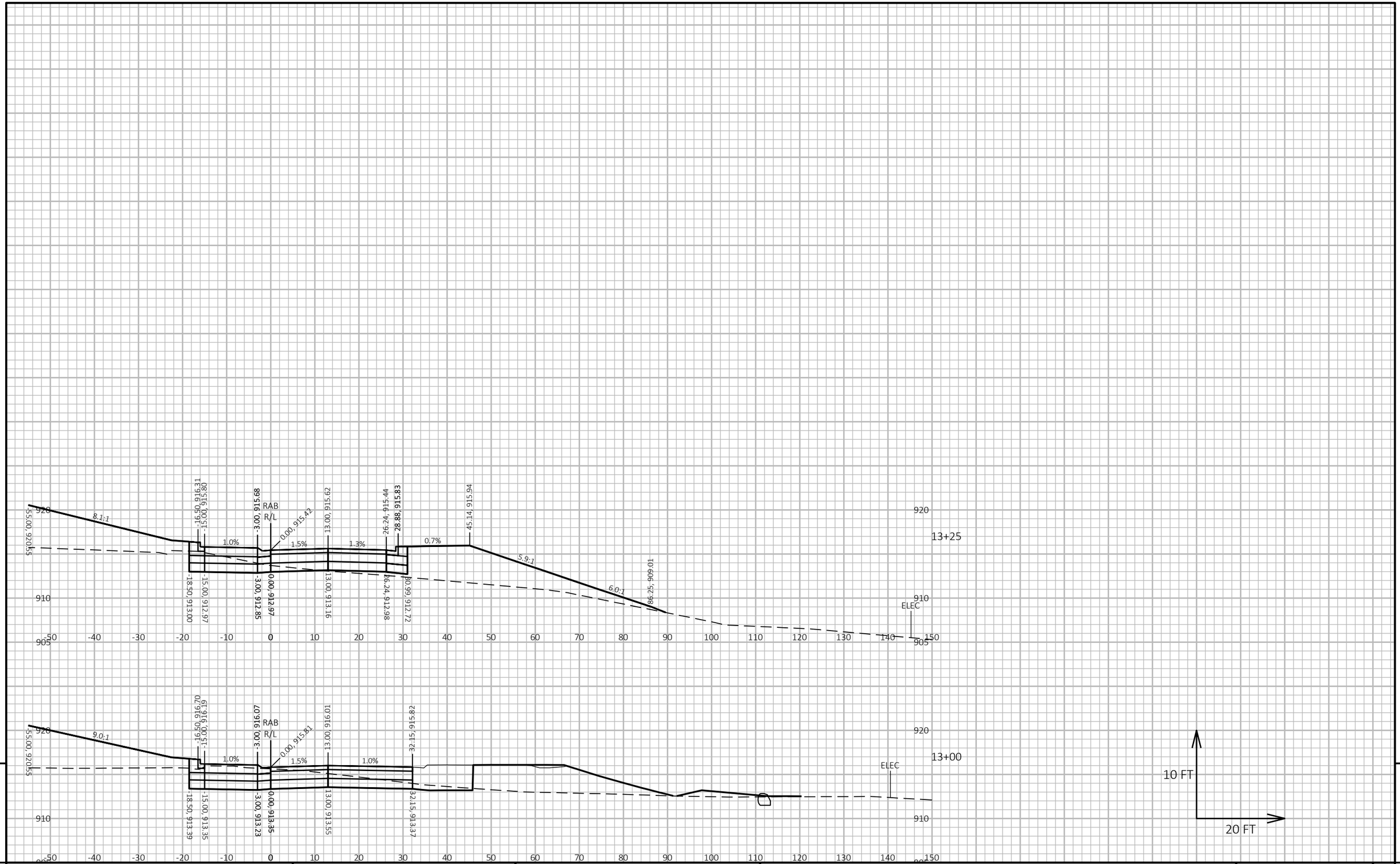
9

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: ROUNDABOUT	SHEET 552	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090210-XS-RAB.DWG
LAYOUT NAME - 090203-xs

PLOT DATE : 10/24/2022 10:29 AM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 5420-02-72	HWY: STH 113	COUNTY: DANE	CROSS SECTIONS: ROUNDABOUT	SHEET 553	E

FILE NAME : G:\00\00093\00093628\CADD\C3D\54200202\SHEETSPLAN\090210-XS-RAB.DWG
LAYOUT NAME - 090204-xs

PLOT DATE : 10/24/2022 10:29 AM PLOT BY : JAMES DES JARLAIS PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

Wisconsin Department of Transportation

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