GRE

AUGUST 2025

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 = 106

PROJECT ID: 4085-67-71

WITH: N/A

COUNTY: CALUMET

10

N

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

NEW HOLSTEIN - CHILTON

ALTONA AVENUE - USH 151

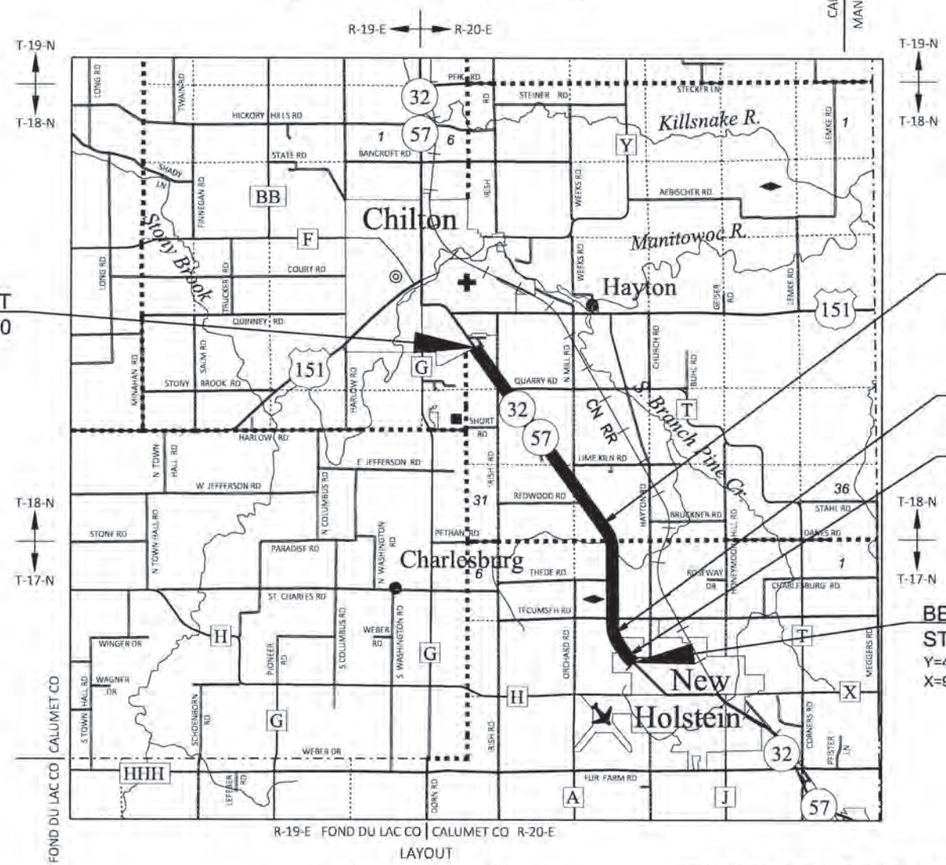
STH 32

CALUMET COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
4085-67-71	WISC 2025571	1

STATE PROJECT NUMBER

4085-67-71



DESIGN DESIGNATION

A.A.D.T.	2024	=	5,950
A.A.D.T.	2044	=	5,950
D.H.V.		=	660
D.D.		=	59/41
T.		=	12.9%
DESIGN SPEED		=	55 MPH
ESALS		=	1,500,000 HMA

CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS		GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	ROCK
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY		GRADE ELEVATION	95.36
PROPOSED OR NEW R/W LINE		CULVERT (Profile View)	
SLOPE INTERCEPT		UTILITIES	
REFERENCE LINE	80TH ST	ELECTRIC	E
EXISTING CULVERT		FIBER OPTIC	FO
PROPOSED CULVERT (Box or Pipe)		GAS	G
COMBUSTIBLE FLUIDS	CAUTION	SANITARY SEWER	SAN
		STORM SEWER	SS
		TELEPHONE	T
MARSH AREA		WATER	W
		UTILITY PEDESTAL	
		POWER POLE	
WOODED OR SHRUB AREA		TELEPHONE POLE	

LAYOUT

SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 4.567 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), CALUMET 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 18.

ORIGINAL PLANS PREPARED BY

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS

WISCONSIN
JEFFREY A. CHVOSTA
E-39047
SLINGER, WI
PROFESSIONAL ENGINEER

DATE: 4/15/25 JEFFREY A. CHVOSTA, PE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	GREMMER & ASSOCIATES, INC.
Designer	GREMMER & ASSOCIATES, INC.
Project Manager	K. BERG
Regional Examiner	
Regional Supervisor	D. SEGERSTROM

APPROVED FOR THE DEPARTMENT

DATE: 4/16/2025 (Signature)

E

FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\40856700\SHEETSPLAN\40856771-010101-TI.DWG

PLOT DATE : 4/14/2025 3:48 PM

PLOT BY : AARON SARAUER

PLOT NAME :

2

GENERAL NOTES

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

NO WORK SHALL BE DONE OUTSIDE OF THE SLOPE INTERCEPTS WITHIN WETLAND AREAS.

PAVEMENT LIMITS AT INTERSECTIONS ARE TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE EXACT LOCATIONS AND LIMITS OF PRIVATE ENTRANCES, COMMERCIAL, AND FIELD ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

ALIGNMENT SHOWN IN PLAN IS FOR REFERENCE ONLY. THE CENTERLINE OF ROADWAY TO BE DETERMINED IN THE FIELD BASED ON THE EXISTING ROADWAY.

DNR LIAISON

MARTY DILLENBURG
DEPARTMENT OF NATURAL RESOURCES
OSHKOSH SERVICE CENTER
625 E COUNTY ROAD Y, SUITE 70
OSHKOSH, WI 54901-9731
(920) 410-7428
marty.dillenburg@wisconsin.gov

CALUMET COUNTY HIGHWAY COMMISSIONER

CHAD SCHEINOHA
241 E CHESTNUT ST
CHILTON, WI 53014-1554
920-849-1434
CHAD.SCHEINOHA@CO.CALUMET.WI.US

NE REGION SURVEY COORDINATOR

MICHAEL ANDRASCHKO
944 VANDERPERREN WAY
GREEN BAY, WI 54304
(920) 492-4166
michael.andraschko@dot.wi.gov

NE REGION DESIGN PROJECT MANAGER

KRISTEN E. BERG, PE
944 VANDERPERREN WAY
GREEN BAY, WI 54304
(920)492-0139
kristen.berg@dot.wi.gov

UTILITIES CONTACTS

ELECTRICITY TRANSMISSION

ATC MANAGEMENT, INC.
CHRIS DAILEY
P.O. BOX 47
WAUKESHA, WI 53187
PHONE: (262) 506-6684
EMAIL: cdailey@atcllc.com

COMMUNICATIONS

FRONTIER COMMUNICATIONS OF WI LLC
CHRIS POLLOCK
521 N 4TH ST
WAUSAU, WI 54403
PHONE: (9715) 847-1240
EMAIL: christopher.pollack@ftr.com

COMMUNICATIONS

NET LEC LLC
RICK VINCENT
450 SECURITY BLVD
P.O. BOX 19079
GREEN BAY, WI 54307-9079
PHONE: (920) 617-7316
EMAIL: rick.vincent@nsight.com

ELECTRICITY

NEW HOLSTEIN PUBLIC UTILITIES
MARC STEPHANIE
2110 WASHINGTON ST
NEW HOLSTEIN, WI 53061
PHONE: (920) 898-5776
MOBILE: (920) 251-8100
EMAIL: mstephanie@nhutilities.org

SEWER

NEW HOLSTEIN PUBLIC UTILITIES
MARC STEPHANIE
2110 WASHINGTON ST
NEW HOLSTEIN, WI 53061
PHONE: (920) 898-5776
MOBILE: (920) 251-8100
EMAIL: mstephanie@nhutilities.org

WATER

NEW HOLSTEIN PUBLIC UTILITIES
MARC STEPHANIE
2110 WASHINGTON ST
NEW HOLSTEIN, WI 53061
PHONE: (920) 898-5776
MOBILE: (920) 251-8100
EMAIL: mstephanie@nhutilities.org

ELECTRICITY

WISCONSIN PUBLIC SERVICE CORPORATION
CHUCK WINDUS
2850 S ASHLAND AVE
GREEN BAY, WI 54307
PHONE: (920) 617-5281
MOBILE: (920) 606-1141
EMAIL: charles.windus@wisconsinpublicservice.com

GAS/PETROLEUM

WISCONSIN PUBLIC SERVICE CORPORATION
NICK WILBERT
933 S WILDWOOD AVE
SHEBOYGAN, WI 53081
PHONE: (920) 451-3733
EMAIL: nicholas.wilbert@wisconsinpublicservice.com

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 = 67.447 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.655 ACRES

ORDER OF SECTION 2 DETAIL SHEETS

2

2

BEGIN PROJECT
STA 70+35.00
Y=451,442.187
X=906,034.586

STA BACK = 93+81.24
STA AHEAD = 94+06.35
EQUATION

STA BACK = 72+43.63
STA AHEAD = 72+41.74
EQUATION

STA BACK = 161+04.41
STA AHEAD = 161+26.50
EQUATION

END PROJECT
STA 311+93.80

CTH H
ALTONA AVE
FORD DR
TECUMSEH RD
STH 32/57
THEDE RD
REDWOOD RD
IRISH RD
SHADY LN
QUARRY ROAD
S. MILL RD

CITY OF
NEW HOLSTEIN

CITY OF
CHILTON

70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340

REMOVE 24" CPRC
INSTALL 24" CPRC

REMOVE 72" CPCM (CATTLE PASS)
INSTALL 38"X60" CPRCHE

REMOVE 72" CPCM (CATTLE PASS)
RE-GRADE DITCH TO DRAIN TO SOUTH

REMOVE 72" CPCM (CATTLE PASS)
INSTALL 24" CPRC

REMOVE 72" CPCM (CATTLE PASS)
INSTALL 30" CPRC

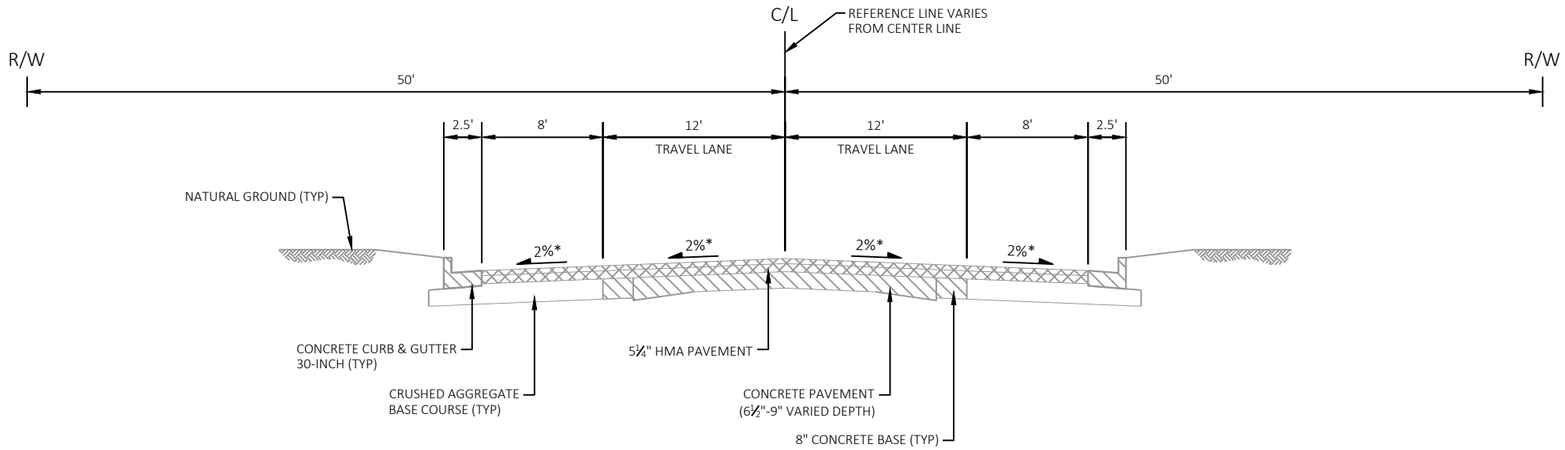
PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	PROJECT OVERVIEW	SHEET 3	E

FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\40856700\SHEETSPLAN\40856771-020201-PO.DWG
LAYOUT NAME - Sheet-01

PLOT DATE : 4/14/2025 3:48 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1" = 1000'_XREF

WISDOT/CADDS SHEET 42

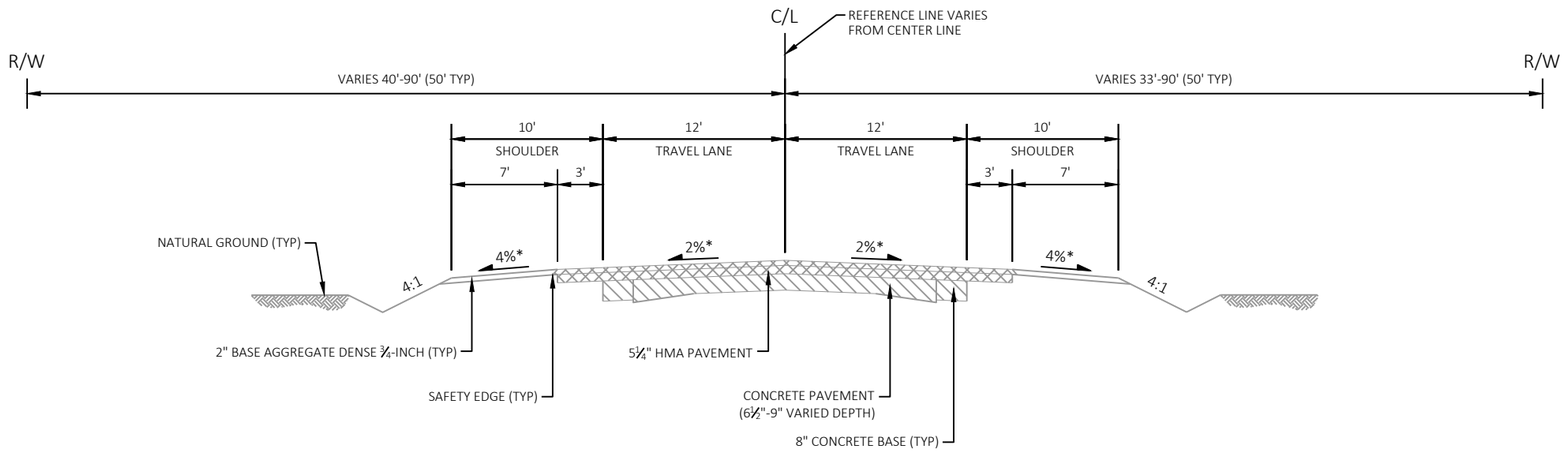
2



TYPICAL EXISTING SECTION

STH 32
STA 70+35 - STA 77+90

* CROSS SLOPE VARIES DUE TO SUPERELEVATION

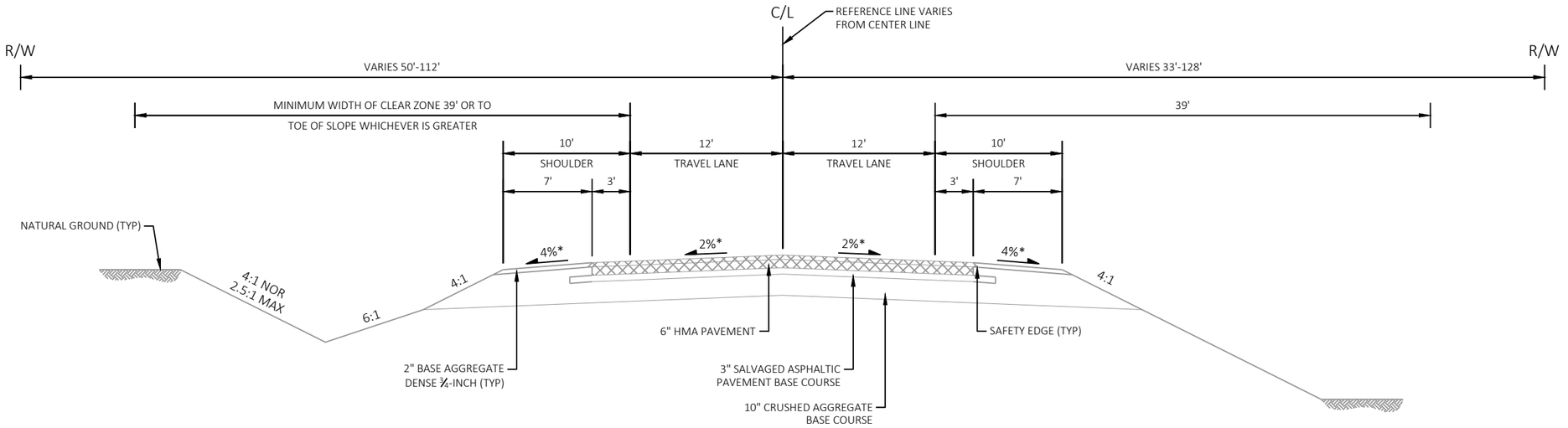


TYPICAL EXISTING SECTION

STH 32
STA 77+90 - STA 133+00
STA 168+78 - STA 286+50
STA 309+00 - STA 311+93.80

PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	TYPICAL SECTIONS	SHEET 4	E

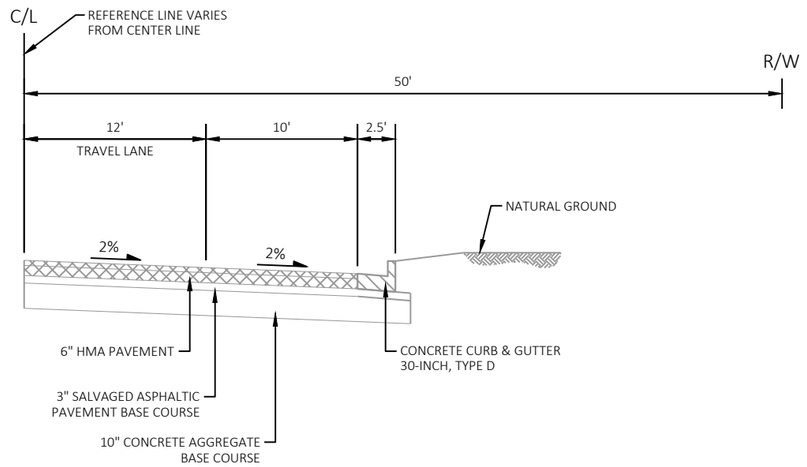
2



TYPICAL EXISTING SECTION

STH 32
STA 133+00 - STA 168+78
STA 286+50 - STA 309+00

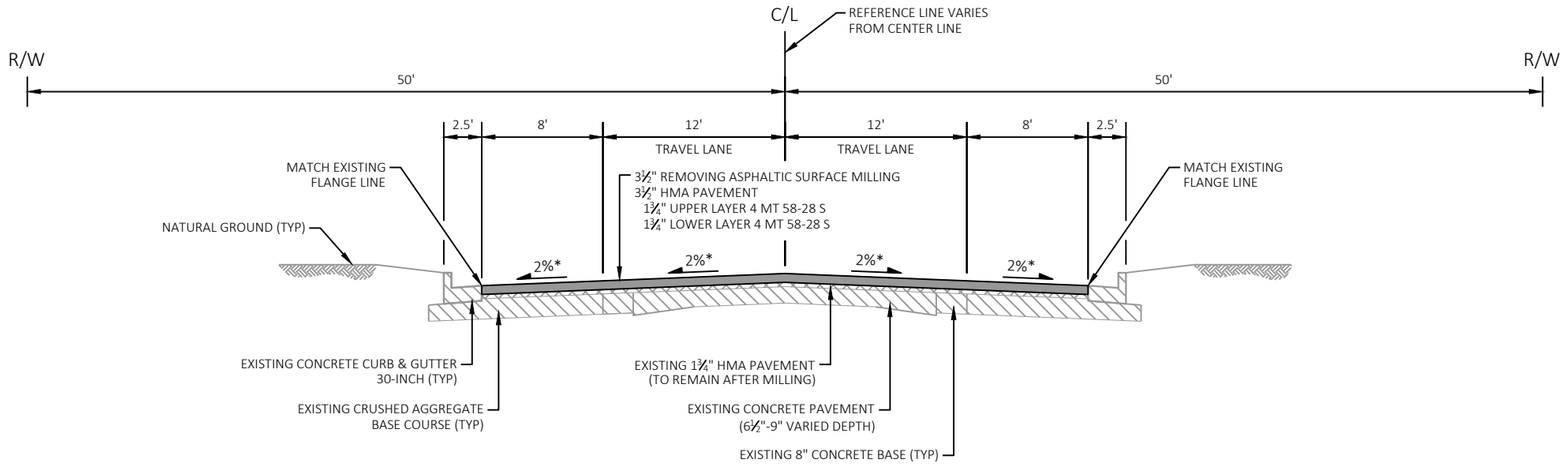
* CROSS SLOPE VARIES DUE TO SUPERELEVATION



1/2 TYPICAL EXISTING SECTION

STH 32
STA 297+75 RT - STA 299+25 RT

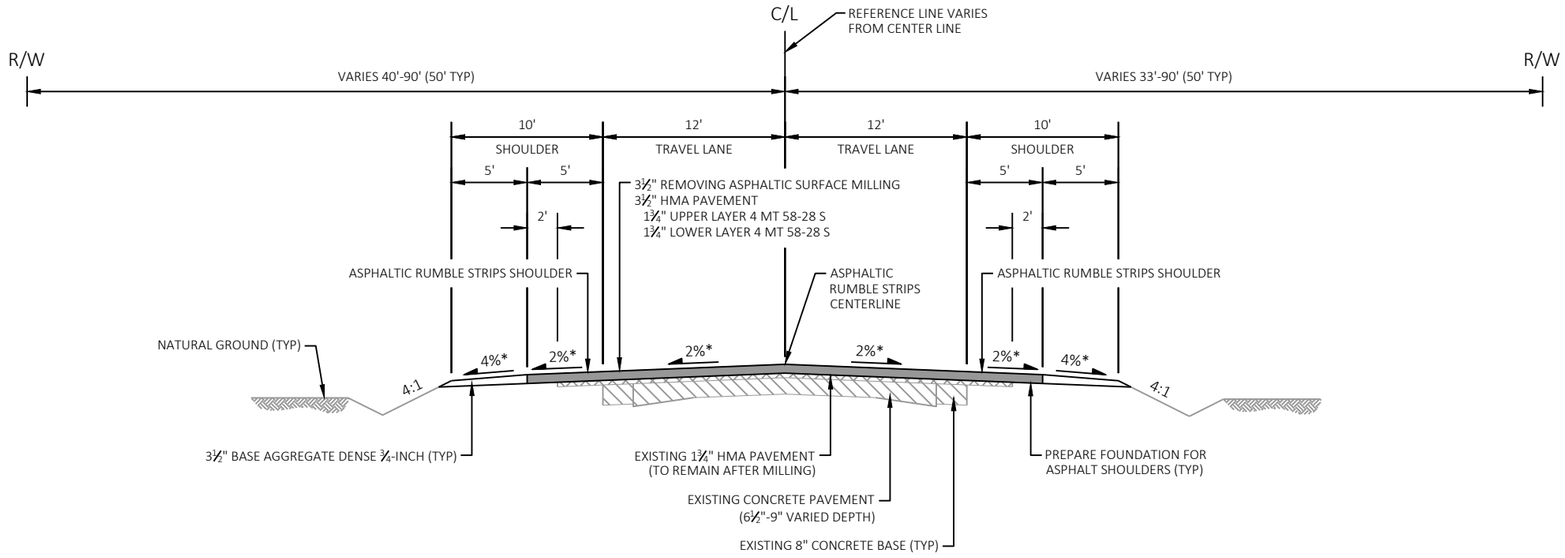
PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	TYPICAL SECTIONS	SHEET 5	E



TYPICAL FINISHED SECTION

STH 32
STA 70+35 - STA 77+90

* CROSS SLOPE VARIES DUE TO SUPERELEVATION

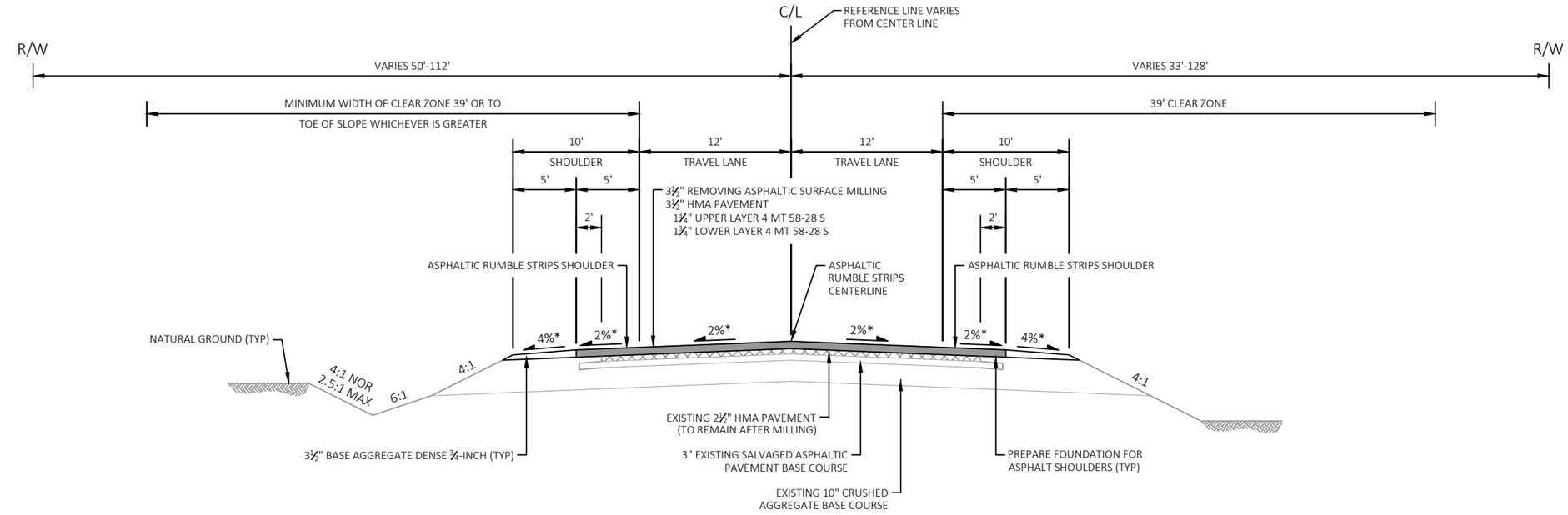


TYPICAL FINISHED SECTION

STH 32
STA 77+90 - STA 133+00
STA 168+78 - STA 286+50
STA 309+00 - STA 311+93.80

PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	TYPICAL SECTIONS	SHEET 6	E

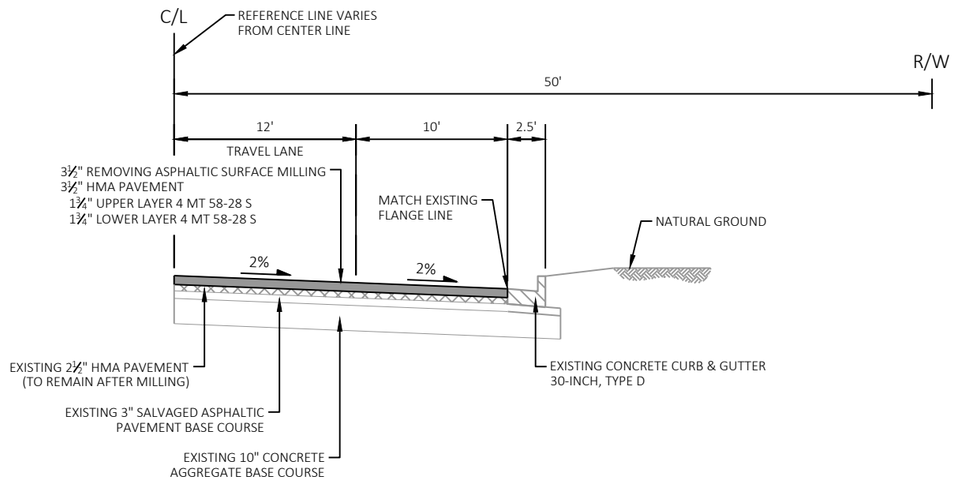
FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\40856700\SHEETSPLAN\40856771-020301-TS.DWG
LAYOUT NAME - Sheet-03
PLOT DATE : 4/14/2025 3:48 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:10 FT



TYPICAL FINISHED SECTION

STH 32
STA 133+00 - STA 168+78
STA 286+50 - STA 309+00

* CROSS SLOPE VARIES DUE TO SUPERELEVATION



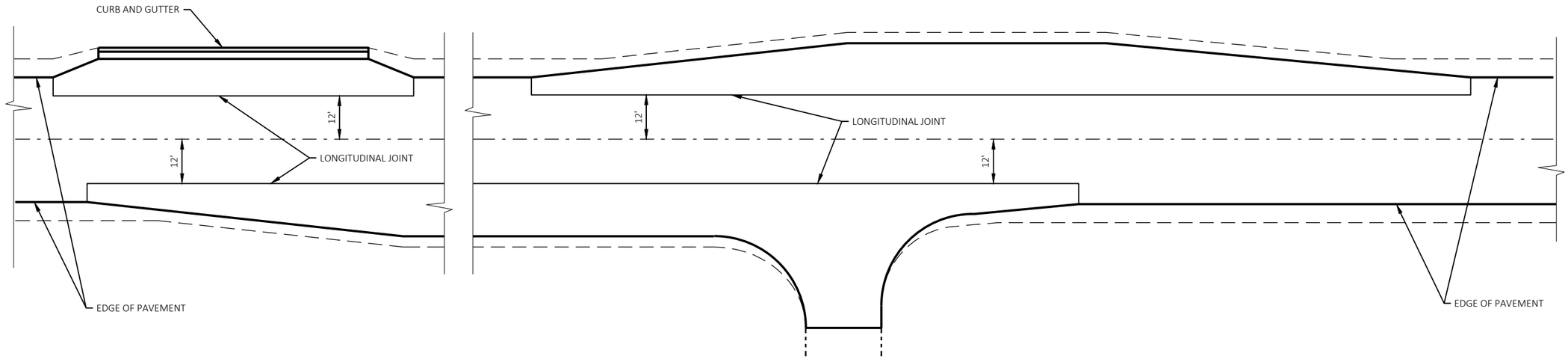
1/2 TYPICAL FINISHED SECTION

STH 32
STA 297+75 RT - STA 299+25 RT

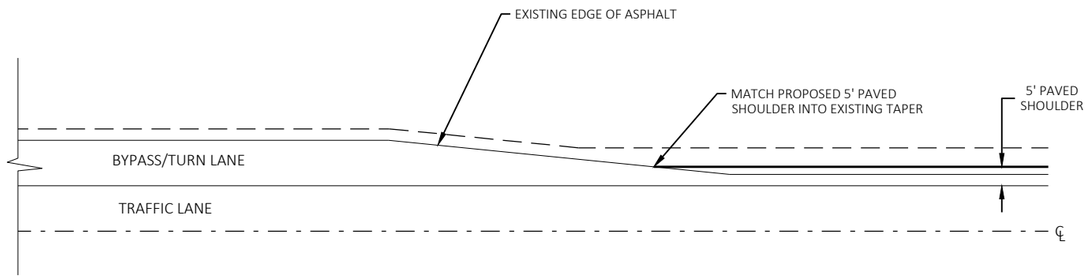
PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	TYPICAL SECTIONS	SHEET 7	E

2

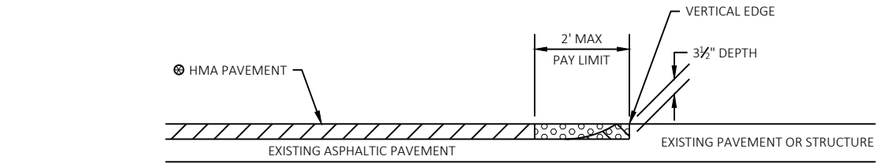
* TO BE USED AT ALL INTERSECTIONS, BYPASS LANES, PASSING LANES, AND RURAL CURB SECTIONS



HMA LONGITUDINAL JOINT DETAIL



DETAIL FOR ASPHALTIC SHOULDER AT BYPASS/TURN LANES



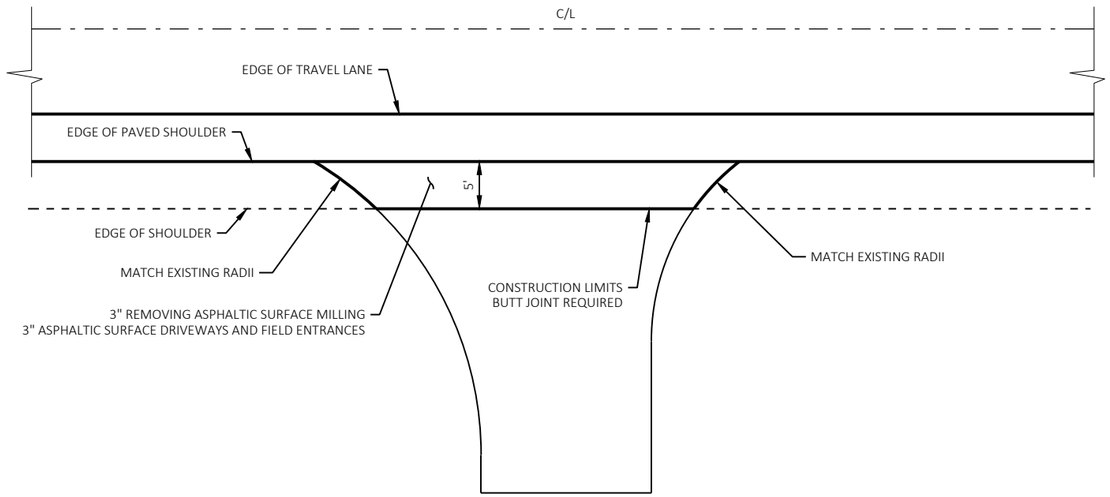
⊛ SEE TYPICAL CROSS SECTION FOR PAVEMENT TYPE AND THICKNESS OF INDIVIDUAL LAYERS

REMOVING ASPHALTIC SURFACE, MILLING

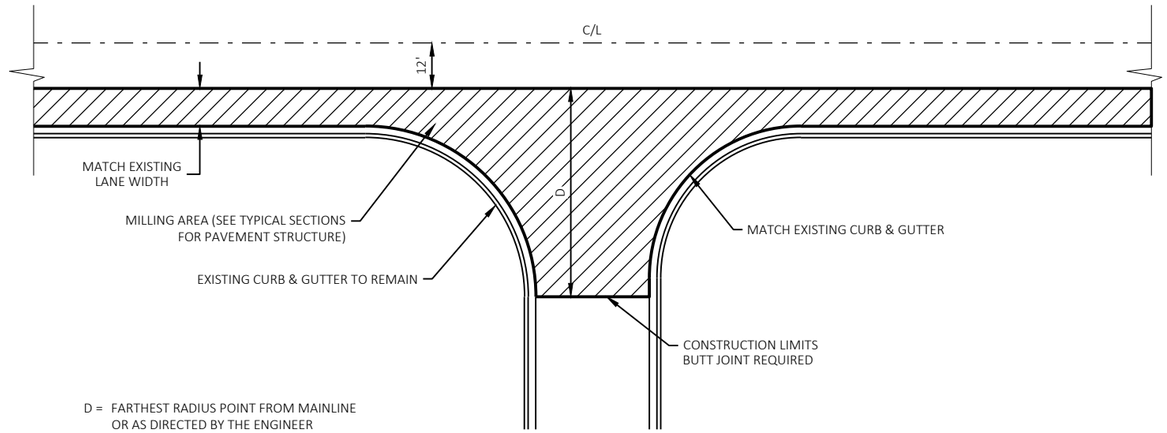
REMOVING ASPHALTIC SURFACE, BUTT JOINTS

REMOVE ASPHALTIC SURFACE WEDGE AT BUTT JOINT TO CREATE VERTICAL EDGE

BUTT JOINT DETAIL FOR ASPHALTIC PAVEMENTS (NO PROFILE CHANGE)



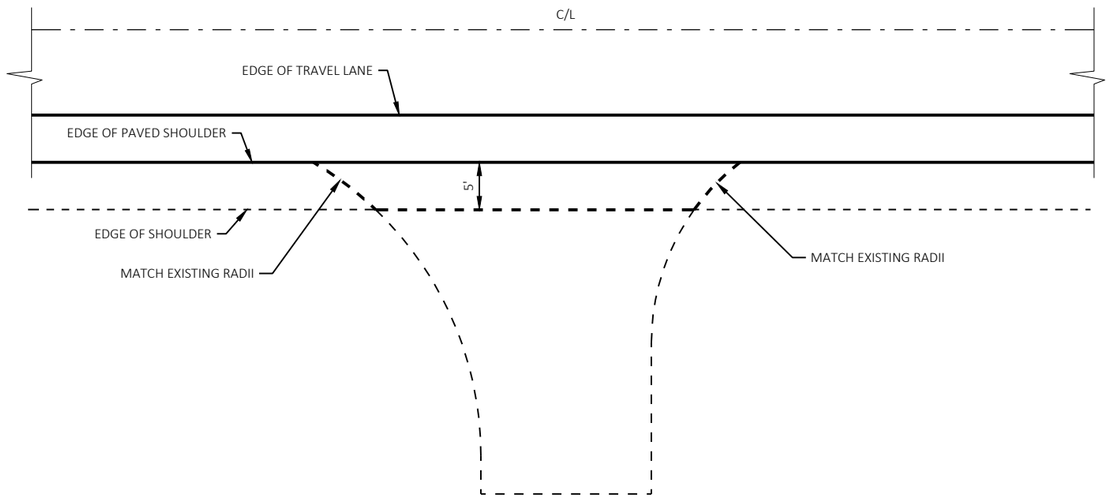
TYPICAL ASPHALT DRIVEWAY DETAIL



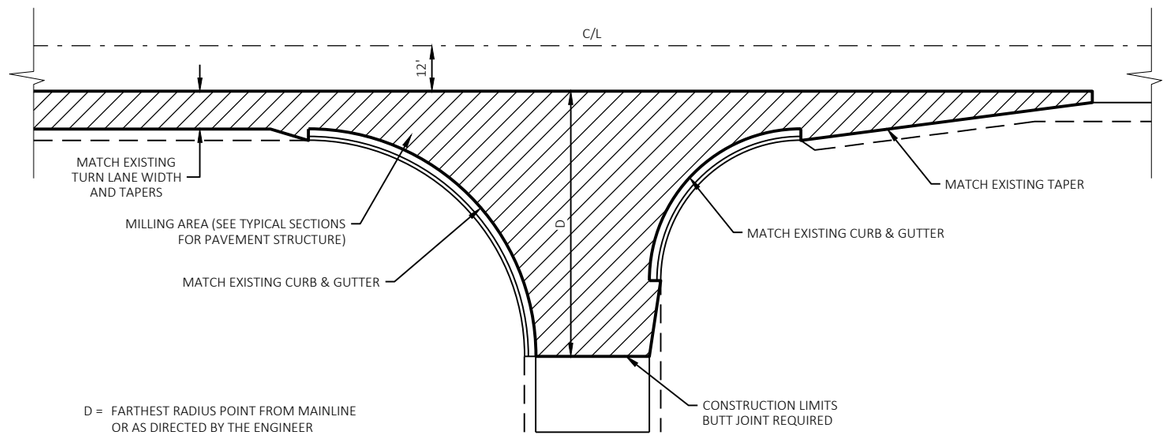
TYPICAL SIDE ROAD DETAIL - URBAN

FORD DRIVE (SOUTH SIDE)

2

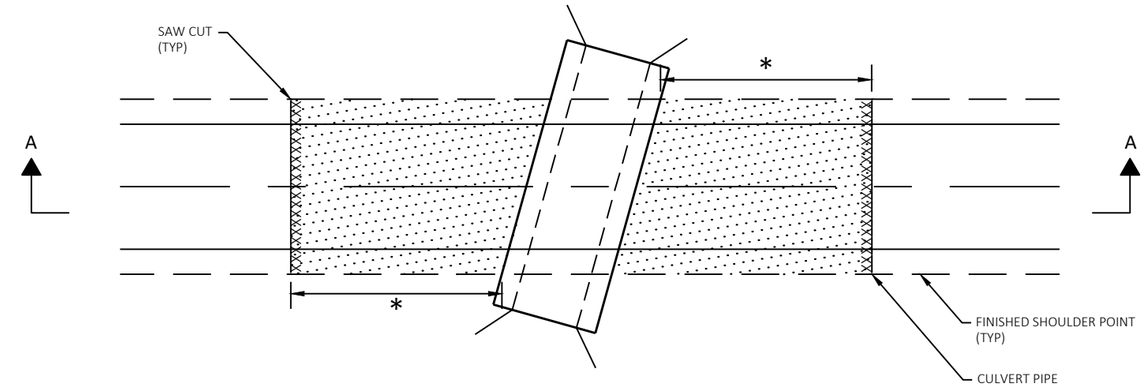


TYPICAL GRAVEL DRIVEWAY DETAIL

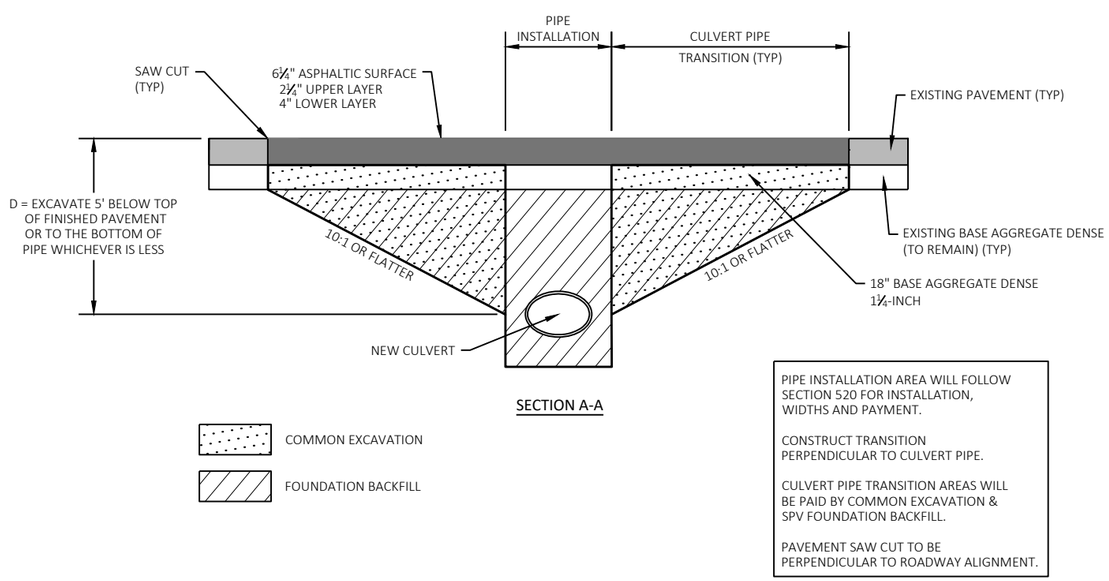


TYPICAL SIDE ROAD DETAIL - RURAL

FORD DRIVE (NORTH SIDE)
TECUMSEH ROAD
THEDE ROAD
REDWOOD ROAD
S. MILL ROAD
QUARRY ROAD
IRISH ROAD



* SEE MISCELLANEOUS QUANTITIES FOR CULVERT PIPE TRANSITION LIMITS.



PIPE INSTALLATION AREA WILL FOLLOW SECTION 520 FOR INSTALLATION, WIDTHS AND PAYMENT.

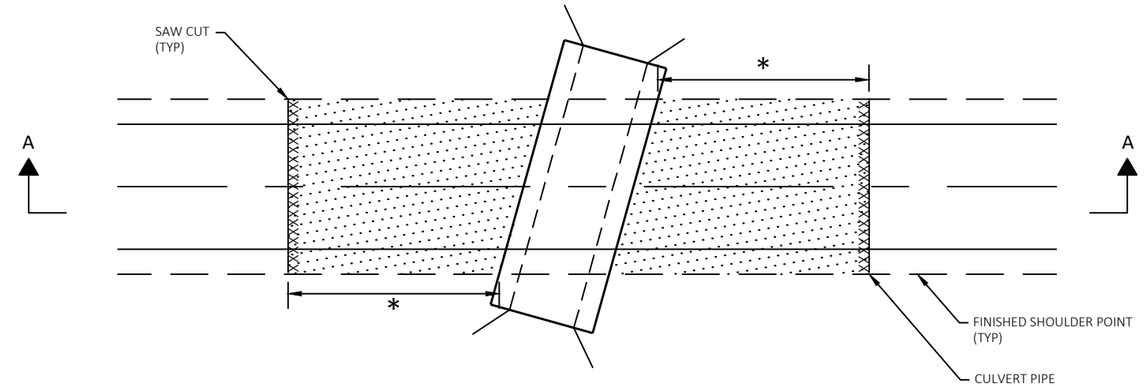
CONSTRUCT TRANSITION PERPENDICULAR TO CULVERT PIPE.

CULVERT PIPE TRANSITION AREAS WILL BE PAID BY COMMON EXCAVATION & SPV FOUNDATION BACKFILL.

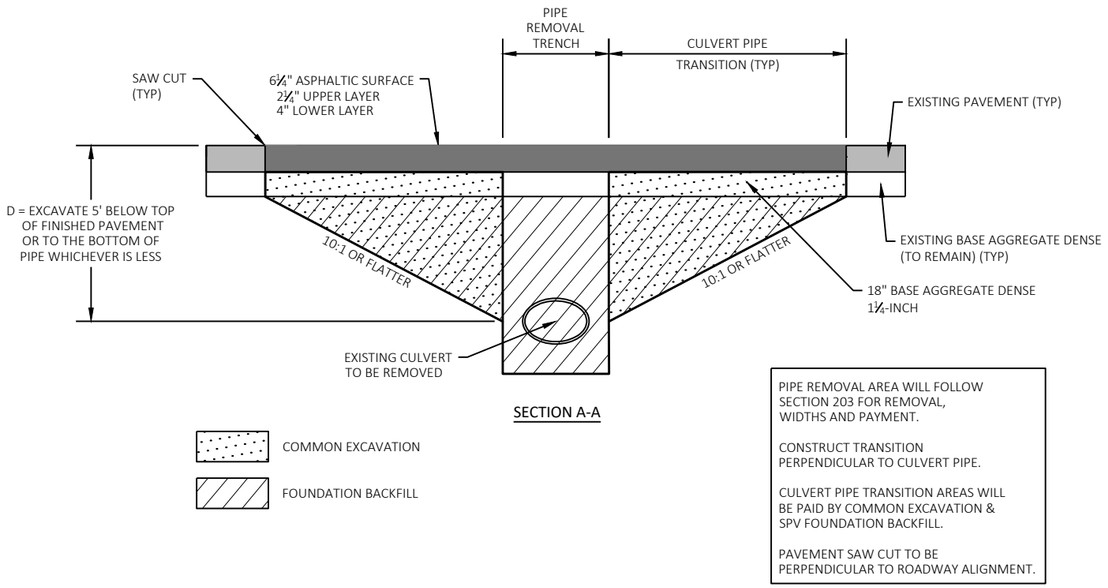
PAVEMENT SAW CUT TO BE PERPENDICULAR TO ROADWAY ALIGNMENT.

NEW CULVERT PIPES WITH TRANSITION

STATION 204+04
STATION 242+40
STATION 260+82
STATION 270+10



* SEE MISCELLANEOUS QUANTITIES FOR CULVERT PIPE TRANSITION LIMITS.



PIPE REMOVAL AREA WILL FOLLOW SECTION 203 FOR REMOVAL, WIDTHS AND PAYMENT.

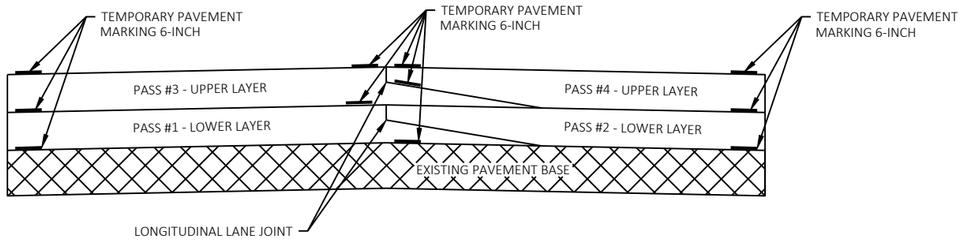
CONSTRUCT TRANSITION PERPENDICULAR TO CULVERT PIPE.

CULVERT PIPE TRANSITION AREAS WILL BE PAID BY COMMON EXCAVATION & SPV FOUNDATION BACKFILL.

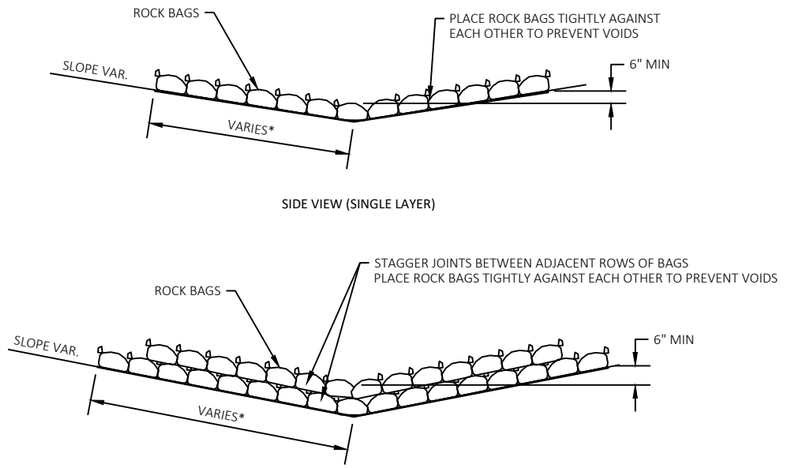
PAVEMENT SAW CUT TO BE PERPENDICULAR TO ROADWAY ALIGNMENT.

EXISTING CULVERT PIPES REMOVAL WITH TRANSITION

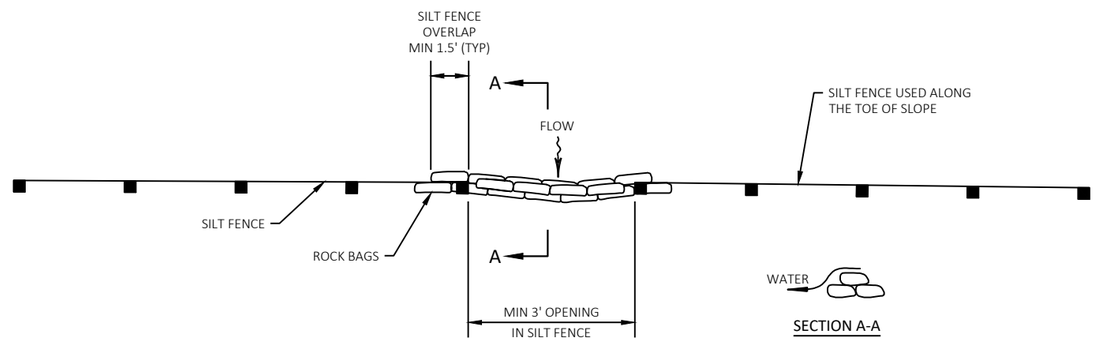
STATION 245+42



PAVEMENT MARKING DETAIL FOR TAPERED OVERLAPPING JOINTS IN HMA PAVEMENTS



ROCK BAGS DITCH CHECK



ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL

PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	CONSTRUCTION DETAILS	SHEET 11	E

2

2

N

WETLAND LIMITS

EXISTING R/W

EXISTING R/W

EXISTING R/W

CONC PE

NEW HOLSTEIN PUBLIC UTILITIES

WPS

CULVERT PIPE CHECK

18" CPCM

PP

TEL PED

OH

FO

NET LEC

GRAV PE

GRAV

ASPH PE

XXXXXXXXX

201 202 203 204 205 206 207

FRONTIER

24" CPRC TO BE REMOVED

CPRC CLASS IV 24-INCH

WPS

STH 32

G

MP

TEL PED

EXIST R/W

T

TLE

SLOPE INTERCEPT

FRONTIER

EXISTING R/W

SILT FENCE*

WETLAND LIMITS

EXISTING R/W

EXISTING R/W

EXISTING R/W

EXISTING R/W

S MILL ROAD

* SILT FENCE RELIEF POINT LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD

LEGEND

- SLOPE INTERCEPT
- SILT FENCE
- CULVERT PIPE CHECKS
- ROCK BAGS FOR DITCH CHECK

SALVAGED TOPSOIL, SEED MIXTURE NO. 20, FERTILIZER TYPE B, AND EROSION MAT URBAN CLASS I TYPE A SHALL BE PLACED ON ALL DISTURBED AREAS.

PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	EROSION CONTROL PLAN	SHEET 12	E

FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\40856700\SHEETSPLAN\40856771-022001-EC.DWG
LAYOUT NAME - Sheet-01

PLOT DATE : 6/25/2025 11:11 AM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

EXISTING R/W

EXISTING R/W

PP

OH

T

FRONTIER

GUY

TLE

PP

WPS

OH

EXISTING R/W

ROCK BAGS

GUY

PP

OH

GRAV FE

CULVERT PIPE CHECK

EXISTING R/W

ROCK BAGS

TEL PED

FO

18" CPCM

FO

FO

GUY

PP

NET LEC

WPS

HO

241

242

243

244

245

246

247

CPRCHE CLASS HE-IV 38x60-INCH

72" CPCM (CATTLE PASS) TO BE REMOVED

STH 32

72" CPCM (CATTLE PASS) TO BE REMOVED

XXXXXXXXXXXXX

G

SLOPE INTERCEPT

SLOPE INTERCEPT

ATC

ROCK BAGS

EXISTING R/W

CONC

ASPH PE

18" CPCM

WPS

RE-GRADE DITCH FROM STA 243+93 TO STA 245+46

6" PVC

MP

EXISTING R/W

TLE

CULVERT PIPE CHECK

PLANTER

PP

LEGEND

- SLOPE INTERCEPT
- SILT FENCE
- CULVERT PIPE CHECKS
- ROCK BAGS FOR DITCH CHECK

SALVAGED TOPSOIL, SEED MIXTURE NO. 20, FERTILIZER TYPE B, AND EROSION MAT URBAN CLASS I TYPE A SHALL BE PLACED ON ALL DISTURBED AREAS.

PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	EROSION CONTROL PLAN	SHEET 13	E

FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\40856700\SHEETSPLAN\40856771-022001-EC.DWG
LAYOUT NAME - Sheet-02

PLOT DATE : 6/25/2025 11:11 AM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

24" CPRC

PROPOSED R/W

FRONTIER

ROCK BAGS

TEL PED

EXISTING R/W

EXISTING R/W

WPS

OH

OH

T

T

T

T

T

T

FO

FO

FO

FO

FO

PP

NET LEC

FE

72" CPCM (CATTLE PASS) TO BE REMOVED

258

259

260

261

262

263

264

STH 32

CPRC CLASS IV 24-INCH

XXXXXXXXXXXX

G

G

G

G

WPS

WPS

ASPH PE

FE

EXISTING R/W

EXISTING R/W

CULVERT PIPE CHECK

SLOPE INTERCEPT

LEGEND

SLOPE INTERCEPT

SILT FENCE

CULVERT PIPE CHECKS

ROCK BAGS FOR DITCH CHECK

SALVAGED TOPSOIL, SEED MIXTURE NO. 20, FERTILIZER TYPE B, AND EROSION MAT URBAN CLASS I TYPE A SHALL BE PLACED ON ALL DISTURBED AREAS.

PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	EROSION CONTROL PLAN	SHEET 14	E

FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\40856700\SHEETSPLAN\40856771-022001-EC.DWG
LAYOUT NAME - Sheet-03

PLOT DATE : 6/25/2025 11:11 AM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

EXISTING R/W

EXISTING R/W

18" CPCM

ROCK BAGS

FRONTIER

EXISTING R/W

T

T

WPS

TEL PED

OH

OH

OH

OH

OH

PP

PP

UT

FO

FO

FO

NET LEC

GRAV FE

CPRC CLASS IV 30-INCH

72" CPCM (CATTLE PASS) TO BE REMOVED

267

268

269

270

271

272

273

STH 32

G

G

G

G

G

WPS

WPS

GRAV PE

GRAV FE

EXISTING R/W

CULVERT PIPE CHECK

SLOPE INTERCEPT

EXISTING R/W

SEPV

SEPV

SEPV

LEGEND

SLOPE INTERCEPT

SILT FENCE

CULVERT PIPE CHECKS

ROCK BAGS FOR DITCH CHECK

SALVAGED TOPSOIL, SEED MIXTURE NO. 20, FERTILIZER TYPE B, AND EROSION MAT URBAN CLASS I TYPE A SHALL BE PLACED ON ALL DISTURBED AREAS.

PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	EROSION CONTROL PLAN	SHEET 15	E

FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\40856700\SHEETSPLAN\40856771-022001-EC.DWG
LAYOUT NAME - Sheet-04

PLOT DATE : 6/25/2025 11:11 AM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND	
DLY12	MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
MY4	MARKING LINE EPOXY 4-INCH (YELLOW)
SLW18	MARKING STOP LINE EPOXY 18-INCH (WHITE)

2

2

N

GUY

PP

GUY

UT

MR

IP

GUY

PP

MY4

MY4

R100'

R249.5'

DLY12

15'

SLW18

+54
-24.5' LT

+47.7
-24.5' LT

R2.5'
(TYP)

24'

22'

100' RADIUS
STA 290+45.2
20.7' LT

249.5' RADIUS
STA 289+23.9
65.1' RT

290

291

292

293

STH 32

22'

24'

+76.6
24.5' RT

+82.8
24.5' RT

SLW18

15'

286.9' RADIUS
STA 294+39.7
83.5' LT

100' RADIUS
STA 292+85.3
20.2' RT

36" CPRC

DLY12

R286.9'

R100'

MY4

MP

IP

MP

IP

IP

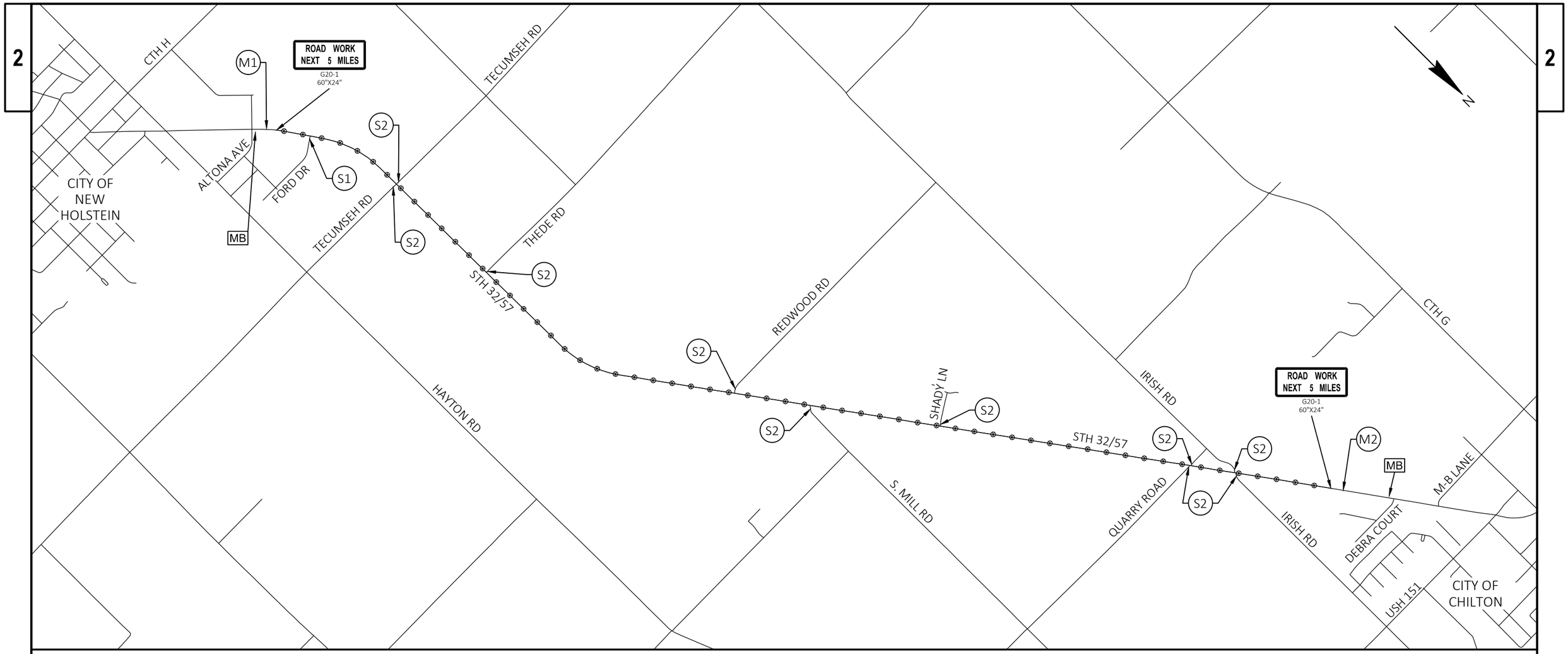
MY4

IRISH ROAD

PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	PAVEMENT MARKING - IRISH ROAD INTERSECTION DETAIL	SHEET 16	E

FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\40856700\SHEETSPLAN\40856771-024501-PM.DWG
LAYOUT NAME - Sheet-01

PLOT DATE : 4/14/2025 4:31 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:20 FT



LEGEND

- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA
- M1 — PLACE TRAFFIC CONTROL SIGNS PER SDD "TRAFFIC CONTROL , ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY TRAFFIC OPEN TO TRAFFIC"
- M2 — PLACE TRAFFIC CONTROL SIGNS PER SDD "TRAFFIC CONTROL , ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY TRAFFIC OPEN TO TRAFFIC"
- S1 — PLACE SIGNS PER "TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL" IN SDD "TRAFFIC CONTROL , ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY TRAFFIC OPEN TO TRAFFIC"
- S2 — PLACE SIGNS PER "TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL" IN SDD "TRAFFIC CONTROL , ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY TRAFFIC OPEN TO TRAFFIC"

GENERAL NOTES

SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION" FOR SIGN AND TEMPORARY PORTABLE RUMBLE STRIP ARRAY LOCATIONS DURING MILLING/ PAVING OPERATIONS.

SEE SDD "TRAFFIC CONTROL ADVANCED WIDTH RESTRICTION SIGNING" FOR SIGN LOCATIONS DURING MILLING/ PAVING OPERATIONS.

SEE SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY" FOR SIGN AND DRUM LOCATIONS DURING SHOULDER CLOSURES FOR BEAM GUARD WORK.

ALL SIGNS, TEMPORARY OR EXISTING, WHICH MAY CONFLICT WITH THE CONSTRUCTION TRAFFIC PATTERN SHALL BE REMOVED OR COVERED.

PLACE MESSAGE BOARDS AS FAR AWAY FROM LIVE TRAFFIC LANES AS POSSIBLE WITHOUT HAMPERING VISIBILITY. THE LOCATION SELECTED SHOULD BE AT OR SLIGHTLY ABOVE THE ELEVATION OF THE ROADWAY. FOR INTERMITTENT WORK, OR WHERE SITE CONDITIONS DO NOT ALLOW OTHERWISE, THE SIGNS MAY BE PLACED ON THE SHOULDER. THE SITE SHOULD BE VISITED TO ASSURE VISIBILITY, SAFETY, AND MAINTENANCE CONSIDERATIONS. A TAPER OF REFLECTORIZED DRUMS OR BARRICADES SHOULD BE PLACED AHEAD OF PCMS PLACED ON THE SHOULDER IF IT IS NOT SHIELDED BY A BARRIER.

PCMS MESSAGES

	7 DAYS PRIOR TO PROJECT STARTUP	
LOCATION	PHASE 1 (2 SEC.)	PHASE 2 (2 SEC.)
STH 32 NB	ROAD WORK BEGINS	{DAY} {DATE}
STH 32 SB	ROAD WORK BEGINS	{DAY} {DATE}

PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	TRAFFIC CONTROL PLAN - ROAD OPEN TO THRU TRAFFIC	SHEET 17	E

FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\40856700\SHEETSPLAN\40856771-025100-TC.DWG
LAYOUT NAME - Sheet-01
PLOT DATE : 4/14/2025 3:50 PM
PLOT BY : AARON SARAUER
PLOT NAME :
PLOT SCALE : NTS
WISDOT/CADDS SHEET 42

2

LEGEND

- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- PROPOSED DETOUR ROUTE (SEE DETOUR PLANS)
- C/D — WORK ZONE. PLACE TRAFFIC CONTROL SIGNS PER "DETAIL C" & "DETAIL D" IN SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES"
- S3 — PLACE TRAFFIC CONTROL SIGNS PER "DETAIL 3" IN SDD "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES"

GENERAL NOTES

SEE S.D.D. "BARRICADES AND SIGNS FOR MAINLINE CLOSURES", "BARRICADES AND SIGNS FOR VARIOUS CLOSURES", "DETOUR SIGNING FOR MAINLINE CLOSURES", AND "BARRICADES AND SIGNS FOR SIDEROAD CLOSURES" FOR GENERAL NOTES AND SIGN SPACING REQUIREMENTS.

PLACE MESSAGE BOARDS AS FAR AWAY FROM LIVE TRAFFIC LANES AS POSSIBLE WITHOUT HAMPERING VISIBILITY. THE LOCATION SELECTED SHOULD BE AT OR SLIGHTLY ABOVE THE ELEVATION OF THE ROADWAY. FOR INTERMITTENT WORK, OR WHERE SITE CONDITIONS DO NOT ALLOW OTHERWISE, THE SIGNS MAY BE PLACED ON THE SHOULDER. THE SITE SHOULD BE VISITED TO ASSURE VISIBILITY, SAFETY, AND MAINTENANCE CONSIDERATIONS. A TAPER OF REFLECTORIZED DRUMS OR BARRICADES SHOULD BE PLACED AHEAD OF PCMS PLACED ON THE SHOULDER IF IT IS NOT SHIELDED BY A BARRIER.

DRAWINGS SHOW TRAFFIC CONTROL FOR A TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON FIELD CONDITIONS AND THE CONTRACTOR'S METHODS OR SEQUENCE OF OPERATION.

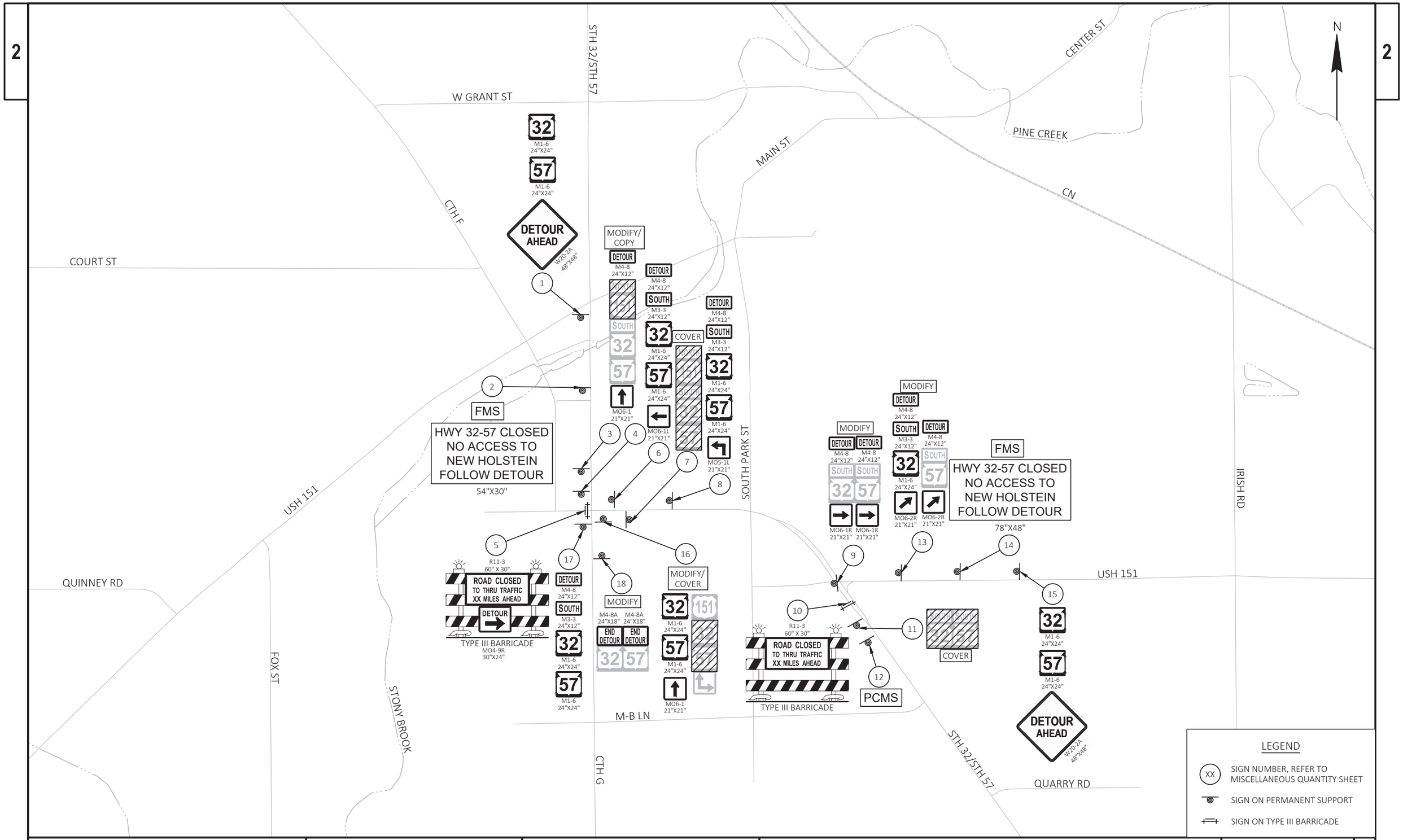
MAP SHOWN IS NOT TO SCALE.

N

DORN ROAD
IRISH RD
CTH A
PLYMOUTH TRAIL
ORCHARD ROAD
TECUMSEH RD
CTH H
CITY OF NEW HOLSTEIN
ALTONA AVE
FORD DR
TECUMSEH RD
THEDE RD
STH 32/57
REDWOOD RD
HAYTON RD
C/D
S3
SHADY LN
S. MILL RD
QUARRY ROAD
IRISH RD
CTH G
M-B LANE
DEBRA COURT
USH 151
CITY OF CHILTON

PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	TRAFFIC CONTROL OVERVIEW - ROAD CLOSED TO THRU TRAFFIC	SHEET 18	E

FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\40856700\SHEETSPLAN\40856771-025101-TC.DWG
LAYOUT NAME - Sheet-01
PLOT DATE : 4/14/2025 3:50 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : NTS



PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	DETOUR SIGNING DETAIL	SHEET 19	E

FILE NAME : N:\PDS\C3D\40856700\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - 027001-dt

PLOT DATE : 4/23/2025 4:58 PM PLOT BY : SMITH, JENNIFER B PLOT NAME : PLOT SCALE : 1:700

2

N

S WASHINGTON RD

CTH G

IRISH RD

CTH H

DETOUR
M4-8
24"X12"
SOUTH
M3-3
24"X12"
32
M1-6
24"X24"
57
M1-6
24"X24"
MO5-1L
21"X21"
19

DETOUR
M4-8
24"X12"
SOUTH
M3-3
24"X12"
32
M1-6
24"X24"
57
M1-6
24"X24"
MO6-1L
21"X21"
21

DETOUR
M4-8
24"X12"
NORTH
M3-1
24"X12"
32
M1-6
24"X24"
57
M1-6
24"X24"
20

DETOUR
M4-8
24"X12"
NORTH
M3-1
24"X12"
32
M1-6
24"X24"
57
M1-6
24"X24"
MO6-1R
21"X21"
22

DETOUR
M4-8
24"X12"
NORTH
M3-1
24"X12"
32
M1-6
24"X24"
57
M1-6
24"X24"
MO5-1R
21"X21"
24

DETOUR
M4-8
24"X12"
SOUTH
M3-3
24"X12"
32
M1-6
24"X24"
57
M1-6
24"X24"
23

LEGEND

XX — SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET

SIGN ON PERMANENT SUPPORT

SIGN ON TYPE III BARRICADE

PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	DETOUR SIGNING DETAIL	SHEET 20	E

FILE NAME : N:\PDS\C3D\40856700\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - 027002-dt

PLOT DATE : 4/23/2025 4:58 PM PLOT BY : SMITH, JENNIFER B PLOT NAME : PLOT SCALE : 1:700

2

2

N

TECUMSEH RD

36

R11-3
60" X 30"

ROAD CLOSED
TO THRU TRAFFIC
XX MILES AHEAD

TYPE III BARRICADE

HAYTON RD

CN

FORD ST

STH 32/STH 57

ALTONA AVE

CTH A

CTH H

STH 32/STH 57

DETOUR
M4-8
24"X12"
SOUTH
M3-3
24"X12"
32
M1-6
24"X24"
57
M1-6
24"X24"
MO6-1
21"X21"
25

DETOUR
M4-8
24"X12"
NORTH
M3-1
24"X12"
32
M1-6
24"X24"
57
M1-6
24"X24"
MO6-1
21"X21"
26

PCMS
35

NORTH
32
57
COVER
34

DETOUR
M4-8
24"X12"
32
M1-6
24"X24"
57
M1-6
24"X24"
MO6-1
21"X21"
28

DETOUR
M4-8
24"X12"
NORTH
32
57
MO6-1
21"X21"
MODIFY
32

DETOUR
M4-8
24"X12"
NORTH
M3-1
24"X12"
32
M1-6
24"X24"
57
M1-6
24"X24"
MO6-1
21"X21"
31

DETOUR
AHEAD
W20-2A
48"X48"
29

MODIFY
27

M4-8A
24"X18"
END
DETOUR
32

M4-8A
24"X18"
END
DETOUR
57

33

R11-3
60" X 30"

ROAD CLOSED
TO THRU TRAFFIC
XX MILES AHEAD

DETOUR

TYPE III BARRICADE
MO4-9R
30"X24"

30

FMS

HWY 32-57 CLOSED
NO ACCESS TO
CHILTON
FOLLOW DETOUR

54"X30"

LEGEND

XX — SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET

SIGN ON PERMANENT SUPPORT

SIGN ON TYPE III BARRICADE

PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	DETOUR SIGNING DETAIL	SHEET 21	E

FILE NAME : N:\PDS\C3D\40856700\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - 027003-dt

PLOT DATE : 4/23/2025 4:58 PM PLOT BY : SMITH, JENNIFER B PLOT NAME : PLOT SCALE : 1:700

WISDOT/CADDS SHEET 42

Estimate Of Quantities

4085-67-71

Line	Item	Item Description	Unit	Total	Qty
0002	203.0100	Removing Small Pipe Culverts	EACH	1.000	1.000
0004	203.0220	Removing Structure (structure) 01. STA 242+40 - Cattle Pass	EACH	1.000	1.000
0006	203.0220	Removing Structure (structure) 02. STA 245+42 - Cattle Pass	EACH	1.000	1.000
0008	203.0220	Removing Structure (structure) 03. STA 260+82 - Cattle Pass	EACH	1.000	1.000
0010	203.0220	Removing Structure (structure) 04. STA 270+10 - Cattle Pass	EACH	1.000	1.000
0012	204.0100	Removing Concrete Pavement	SY	895.000	895.000
0014	204.0110	Removing Asphaltic Surface	SY	225.000	225.000
0016	204.0115	Removing Asphaltic Surface Butt Joints	SY	230.000	230.000
0018	204.0120	Removing Asphaltic Surface Milling	SY	88,000.000	88,000.000
0020	205.0100	Excavation Common	CY	2,550.000	2,550.000
0022	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 4085-67-71	EACH	1.000	1.000
0024	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	431.000	431.000
0026	213.0100	Finishing Roadway (project) 01. 4085-67-71	EACH	1.000	1.000
0028	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,180.000	2,180.000
0030	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	2,050.000	2,050.000
0032	450.4000	HMA Cold Weather Paving	TON	5,000.000	5,000.000
0034	455.0605	Tack Coat	GAL	11,610.000	11,610.000
0036	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	1.000	1.000
0038	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	2.000	2.000
0040	460.2005	Incentive Density PWL HMA Pavement	DOL	12,650.000	12,650.000
0042	460.2007	Incentive Density HMA Pavement Longitudinal Joints	DOL	9,650.000	9,650.000
0044	460.2010	Incentive Air Voids HMA Pavement	DOL	20,000.000	20,000.000
0046	460.6224	HMA Pavement 4 MT 58-28 S	TON	20,000.000	20,000.000
0048	465.0105	Asphaltic Surface	TON	410.000	410.000
0050	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	63.000	63.000
0052	465.0520	Asphaltic Rumble Strips, Shoulder	LF	38,180.000	38,180.000
0054	465.0560	Asphaltic Rumble Strips, Centerline	LF	20,400.000	20,400.000
0056	522.0424	Culvert Pipe Reinforced Concrete Class IV 24-Inch	LF	160.000	160.000
0058	522.0430	Culvert Pipe Reinforced Concrete Class IV 30-Inch	LF	80.000	80.000
0060	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	4.000	4.000
0062	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	2.000	2.000
0064	522.2638	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 38x60-Inch	EACH	2.000	2.000
0066	618.0100	Maintenance and Repair of Haul Roads (project) 01. 4085-67-71	EACH	1.000	1.000
0068	619.1000	Mobilization	EACH	1.000	1.000
0070	624.0100	Water	MGAL	59.000	59.000
0072	625.0500	Salvaged Topsoil	SY	2,195.000	2,195.000
0074	628.1504	Silt Fence	LF	115.000	115.000
0076	628.1520	Silt Fence Maintenance	LF	115.000	115.000
0078	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0080	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0082	628.2006	Erosion Mat Urban Class I Type A	SY	2,195.000	2,195.000
0084	628.7555	Culvert Pipe Checks	EACH	35.000	35.000
0086	628.7570	Rock Bags	EACH	115.000	115.000
0088	629.0210	Fertilizer Type B	CWT	1.400	1.400
0090	630.0120	Seeding Mixture No. 20	LB	100.000	100.000
0092	630.0500	Seed Water	MGAL	49.000	49.000
0094	633.5200	Markers Culvert End	EACH	8.000	8.000
0096	642.5001	Field Office Type B	EACH	1.000	1.000
0098	643.0300	Traffic Control Drums	DAY	70.000	70.000

4085-67-71

Line	Item	Item Description	Unit	Total	Qty
0100	643.0420	Traffic Control Barricades Type III	DAY	158.000	158.000
0102	643.0705	Traffic Control Warning Lights Type A	DAY	276.000	276.000
0104	643.0900	Traffic Control Signs	DAY	2,704.000	2,704.000
0106	643.0920	Traffic Control Covering Signs Type II	EACH	6.000	6.000
0108	643.1000	Traffic Control Signs Fixed Message	SF	48.500	48.500
0110	643.1050	Traffic Control Signs PCMS	DAY	28.000	28.000
0112	643.3165	Temporary Marking Line Paint 6-Inch	LF	179,700.000	179,700.000
0114	643.5000	Traffic Control	EACH	1.000	1.000
0116	646.1020	Marking Line Epoxy 4-Inch	LF	1,070.000	1,070.000
0118	646.2040	Marking Line Grooved Wet Ref Epoxy 6-Inch	LF	64,150.000	64,150.000
0120	646.6120	Marking Stop Line Epoxy 18-Inch	LF	77.000	77.000
0122	646.6466	Cold Weather Marking Epoxy 6-Inch	LF	16,310.000	16,310.000
0124	646.7120	Marking Diagonal Epoxy 12-Inch	LF	76.000	76.000
0126	650.6000	Construction Staking Pipe Culverts	EACH	4.000	4.000
0128	650.8000	Construction Staking Resurfacing Reference	LF	24,113.000	24,113.000
0130	650.9911	Construction Staking Supplemental Control (project) 01. 4085-67-71	EACH	1.000	1.000
0132	650.9920	Construction Staking Slope Stakes	LF	153.000	153.000
0134	690.0150	Sawing Asphalt	LF	60.000	60.000
0136	690.0250	Sawing Concrete	LF	240.000	240.000
0138	740.0440	Incentive IRI Ride	DOL	36,544.000	36,544.000
0140	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,000.000	2,000.000
0142	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,200.000	1,200.000
0144	SPV.0035	Special 01. Foundation Backfill	CY	1,780.000	1,780.000
0146	SPV.0090	Special 01. Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 38x60-In	LF	72.000	72.000

3

REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	203.0100 EACH	COMMENTS
CATEGORY CODE 0010			
204+04	LT & RT	1	REMOVE 76 LF OF CPRC 24-INCH
	TOTAL	**1**	

REMOVING STRUCTURE

STATION	LOCATION	203.0220 EACH	COMMENTS
CATEGORY CODE 0010			
01. 242+40	LT & RT	1	REMOVE 60 LF OF 72" CPCM CATTLE PASS WITH ENDWALLS
02. 245+42	LT & RT	1	REMOVE 60 LF OF 72" CPCM CATTLE PASS WITH ENDWALLS
03. 260+82	LT & RT	1	REMOVE 60 LF OF 72" CPCM CATTLE PASS WITH ENDWALLS
04. 270+10	LT & RT	1	REMOVE 60 LF OF 72" CPCM CATTLE PASS WITH ENDWALLS

REMOVING ITEMS

STATION - STATION	LOCATION	204.0100 REMOVING CONCRETE PAVEMENT SY	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	COMMENTS
CATEGORY CODE 0010						
70+35 - 311+94	LT & RT	--	--	230	88,000	--
204+04	LT & RT	175	45	--	--	CULVERT REPLACEMENT
242+40	LT & RT	180	45	--	--	CULVERT REPLACEMENT
245+42	LT & RT	180	45	--	--	CULVERT REMOVAL
260+82	LT & RT	180	45	--	--	CULVERT REPLACEMENT
270+10	LT & RT	180	45	--	--	CULVERT REPLACEMENT
	TOTALS	**895**	**225**	**230**	**88,000**	

3

DIVISION	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1) CUT (2)	SALVAGED/ UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR 1.30	MASS ORDINATE +/- (14)	WASTE
DIVISION 1									
STH 32 DITCH RE-GRADING	243+92.775/245+45.51		40	0	40	14	18	22	22
CULVERT 204+04			501	78	423	0	0	423	423
CULVERT 242+40			499	78	421	0	0	421	421
CULVERT 245+43			529	78	451	0	0	451	451
CULVERT 260+82			496	78	418	0	0	418	418
CULVERT 270+10			485	78	407	0	14	407	407
DIVISION 1 SUBTOTAL			40	390	2,160	14	32	2,142	2,142
GRAND TOTAL			2,550	390	2,160	14	32	2,142	2,142
TOTAL COMMON EXCAVATION			2,550						

NOTES:
(1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
(2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
(4) SALVAGED/UNUSABLE PAVEMENT MATERIAL
(5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL
(13) EXPANDED FILL FACTOR = 1.30. 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.

PREPARE FOUNDATION FOR ASPHALTIC PAVING

STATION	LOCATION	211.0101 EACH
CATEGORY CODE 0010		
01. 4085-67-71	70+35 - 311+94	1
	TOTAL	**1**

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

STATION - STATION	LOCATION	211.0400 STA
CATEGORY CODE 0010		
78+59 - 93+81	LT	19
78+66 - 93+81	RT	18
100+41 - 161+04	RT	99
100+95 - 124+09	LT	23
127+30 - 161+04	LT	57
187+59 - 227+93	LT	40
202+94 - 279+77	RT	77
231+16 - 281+12	LT	50
283+09 - 290+00	RT	7
284+41 - 290+22	LT	6
293+05 - 297+48	RT	4
293+45 - 311+94	LT	19
299+72 - 311+94	RT	12
	TOTAL	**431**

BASE AGGREGATE DENSE AND WATER ITEMS

STATION - STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100 WATER MGAL	COMMENTS
CATEGORY CODE 0010					
77+94 - 311+94	LT & RT	1,950	--	29	--
204+04	LT & RT	46	410	6	CULVERT REPLACEMENT
242+40	LT & RT	46	410	6	CULVERT REPLACEMENT
245+42	LT & RT	46	410	6	CULVERT REMOVAL
260+82	LT & RT	46	410	6	CULVERT REPLACEMENT
270+10	LT & RT	46	410	6	CULVERT REPLACEMENT
	TOTALS	**2,180**	**2,050**	**59**	

BASE AGGREGATE DENSE 3/4-INCH WEIGHT CALCULATIONS BASED ON 2.1 TONS/CY.
BASE AGGREGATE DENSE 1 1/4-INCH WEIGHT CALCULATIONS BASED ON 2.0 TONS/CY.

RUMBLE STRIP ITEMS

STATION - STATION	LOCATION	465.0520 ASPHALTIC RUMBLE STRIPS SHOULDER LF	465.0560 ASPHALTIC RUMBLE STRIPS CENTERLINE LF
CATEGORY CODE 0010			
79+19 - 96+85	LT	1,686	--
79+47 - 96+84	C/L	--	1,713
79+69 - 95+58	RT	1,556	--
100+88 - 195+53	RT	9,002	--
100+89 - 123+25	C/L	--	2,236
102+15 - 123+20	LT	1,922	--
127+25 - 183+56	C/L	--	5,611
128+50 - 183+52	LT	5,202	--
187+56 - 199+75	C/L	--	1,219
188+79 - 227+04	LT	3,284	--
203+75 - 227+07	C/L	--	2,333
203+82 - 228+57	RT	7,076	--
231+07 - 280+09	C/L	--	4,903
232+36 - 280+23	LT	4,504	--
283+98 - 288+63	RT	466	--
284+09 - 289+56	C/L	--	556
285+61 - 289+32	LT	314	--
293+65 - 311+94	C/L	--	1,829
293+97 - 311+94	RT	1,444	--
294+69 - 311+94	LT	1,724	--
	TOTALS	**38,180**	**20,400**

ASPHALTIC ITEMS

STATION - STATION	LOCATION	450.4000 HMA COLD WEATHER PAVING TON	455.0605 TACK COAT GAL	460.0105.S HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP VOLUMETRICS EACH	460.0110.S HMA PERCENT WITHIN LIMITS (PWL) TEST STRIP DENSITY EACH	460.6224 HMA PAVEMENT 4 MT 58-28 S TON	465.0105 ASPHALTIC SURFACE TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	COMMENTS
CATEGORY CODE 0010									
77+94 - 311+94	LT & RT	5,000	11,551	1	2	20,000	--	63	--
204+04	LT & RT	--	11	--	--	--	78	--	CULVERT REPLACEMENT
242+40	LT & RT	--	12	--	--	--	83	--	CULVERT REPLACEMENT
245+42	LT & RT	--	12	--	--	--	83	--	CULVERT REMOVAL
260+82	LT & RT	--	12	--	--	--	83	--	CULVERT REPLACEMENT
270+10	LT & RT	--	12	--	--	--	83	--	CULVERT REPLACEMENT
	TOTALS	**5,000**	**11,610**	**1**	**2**	**20,000**	**410**	**63**	

HMA PAVEMENT WEIGHT CALCULATIONS BASED ON 112 LB/SY/IN.
TACK COAT CALCULATIONS BASED ON 0.070 GAL/SY ON MILLED HMA, PULVERIZED HMA, CONCRETE OR RUBBLIZED CONCRETE
TACK COAT CALCULATIONS BASED ON 0.050 GAL/SY ON PREVIOUSLY PLACED LOWER LAYERS
ASPHALTIC SURFACE WEIGHT CALCULATIONS BASED ON 112 LB/SY/IN.

PWL MIXTURE TABLE

THE FOLLOWING ACCEPTANCE CRITERIA ARE APPLICAPLE FOR THIS PROJECT:

LOCATION	STATION	MIXTURE USE	UNDERLYING SURFACE	BID ITEM	TONS	THICKNESS	QUALITY MANAGEMENT PROGRAM TO BE USED FOR:	
							MIXTURE ACCEPTANCE	DENSITY ACCEPTANCE
12' Driving Lane	70+35 - 311+94	Upper Layer	4 MT 58-28 S	4 MT 58-28 S	6,300	1.75"	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density PWL HMA Pavement 460.2005
12' Driving Lane	70+35 - 311+94	Lower Layer	Milled Existing HMA Surface	4 MT 58-28 S	6,350	1.75"	PWL Incentive Air Voids HMA Pavement 460.2010	Incentive Density PWL HMA Pavement 460.2005
5' Shoulder / Side Roads	70+35 - 311+94	Upper Layer	4 MT 58-28 S	4 MT 58-28 S	3,680	1.75"	PWL Incentive Air Voids HMA Pavement 460.2010	Department Acceptance (SS 460.3.3.2) *Not eligible for incentive
5' Shoulder / Side Roads	70+35 - 311+94	Lower Layer	Milled Existing HMA Surface	4 MT 58-28 S	3,670	1.75"	PWL Incentive Air Voids HMA Pavement 460.2010	Department Acceptance (SS 460.3.3.2) *Not eligible for incentive
Various		Culvert Patches	Base Aggregate	Asphaltic Surface	410	6.25" Total	(SS 465)	Ordinary Compaction (SS 450.3.2.6.2)

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CULVERT PIPE SUMMARY

STATION	LOCATION	522.0424 CULVERT PIPE REINFORCED CONCRETE CLASS IV 24-INCH LF	522.0430 CULVERT PIPE REINFORCED CONCRETE CLASS IV 30-INCH LF	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	522.2638 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 38X60-INCH EACH	633.5200 MARKERS CULVERT END EACH	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	SPV.0090.01 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 38X60-IN LF	* JOINT TIES EACH	** INLET ELEVATION	** OUTLET ELEVATION
CATEGORY CODE 0010												
204+04.08	STH-32	80	--	2	--	--	2	1	--	12	939.12	938.80
242+40.27	STH-32	--	--	--	--	2	2	1	72	12	925.64	924.20
260+82.36	STH-32	80	--	2	--	--	2	1	--	12	917.40	915.00
270+09.67	STH-32	--	80	--	2	--	2	1	--	12	916.30	914.30
	TOTALS	**160**	**80**	**4**	**2**	**2**	**8**	**4**	**72**			

*NON-BID ITEM: FOR INFORMATION ONLY

**PIPE INVERT AT END OF PIPE FOR INFORMATION ONLY. FIELD VERIFY

RESTORATION ITEMS

STATION	LOCATION	625.0500 SALVAGED TOPSOIL SY	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0500 SEED WATER MGAL	COMMENTS
CATEGORY CODE 0010							
204+04	LT & RT	308	308	0.2	14	7	CULVERT REPLACEMENT
242+40	LT & RT	300	300	0.2	14	7	CULVERT REPLACEMENT
245+43	LT & RT	541	541	0.3	24	12	CULVERT REMOVAL
260+82	LT & RT	302	302	0.2	14	7	CULVERT REPLACEMENT
270+10	LT & RT	303	303	0.2	14	7	CULVERT REPLACEMENT
UNDISTRIBUTED		441	441	0.3	20	9	
	TOTALS	**2,195**	**2,195**	**1.4**	**100**	**49**	

EROSION CONTROL ITEMS

STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH	COMMENTS
CATEGORY CODE 0010								
PROJECT 4085-67-71		--	--	3	1	--	--	--
204+04	LT & RT	92	92	--	--	3	17	CULVERT REPLACEMENT
242+40	LT & RT	--	--	--	--	13	15	CULVERT REPLACEMENT
243+92 - 245+43	LT & RT	--	--	--	--	2	30	DITCH RE-GRADING
260+82	LT & RT	--	--	--	--	3	15	CULVERT REPLACEMENT
270+10	LT & RT	--	--	--	--	5	15	CULVERT REPLACEMENT
UNDISTRIBUTED		23	23	--	--	9	23	--
	TOTALS	**115**	**115**	**3**	**1**	**35**	**115**	

TRAFFIC CONTROL ITEMS

LOCATION	NUMBER OF DAYS IN SERVICE	643.0300 TRAFFIC CONTROL DRUMS NO. REQ'D	643.0300 TRAFFIC CONTROL DRUMS NO. DAYS	643.0300 TRAFFIC CONTROL DRUMS TOTAL DAY	643.0420* TRAFFIC CONTROL BARRICADES TYPE III NO. REQ'D	643.0420* TRAFFIC CONTROL BARRICADES TYPE III TOTAL DAY	643.0705* TRAFFIC CONTROL WARNING LIGHTS TYPE A NO. REQ'D	643.0705* TRAFFIC CONTROL WARNING LIGHTS TYPE A TOTAL DAY	643.0900* TRAFFIC CONTROL SIGNS NO. REQ'D	643.0900* TRAFFIC CONTROL SIGNS TOTAL DAY	643.1050* TRAFFIC CONTROL SIGNS PCMS NO. REQ'D	643.1050* TRAFFIC CONTROL SIGNS PCMS NO. DAYS	643.1050* TRAFFIC CONTROL SIGNS PCMS TOTAL DAY
CATEGORY CODE 0010													
PROJECT 4085-67-71	60	*10*	*7*	70	--	--	--	--	*20*	1,200	*2*	*7*	14
204+04 - CULVERT REPLACEMENT	2	--	--	--	*11*	22	*18*	36	*10*	20	--	--	--
242+40 - CULVERT REPLACEMENT	2	--	--	--	*11*	22	*18*	36	*10*	20	--	--	--
245+42 - CULVERT REMOVAL	2	--	--	--	*11*	22	*18*	36	*10*	20	--	--	--
260+82 - CULVERT REPLACEMENT	2	--	--	--	*11*	22	*18*	36	*10*	20	--	--	--
270+10 - CULVERT REPLACEMENT	2	--	--	--	*11*	22	*18*	36	*10*	20	--	--	--
UNEVEN LANE SIGNS - VARIOUS LOCATIONS	12	--	--	--	--	--	--	--	*10*	120	--	--	--
LOOSE GRAVEL SIGNS - VARIOUS LOCATIONS	12	--	--	--	--	--	--	--	*10*	120	--	--	--
TOTALS				**70**		**110**		**180**		**1,540**			**14**

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN PLAN.

TEMPORARY MARKING LINE PAINT 6-INCH

STATION - STATION	LOCATION	643.3165 WHITE LF	643.3165 YELLOW LF	COMMENTS
CATEGORY CODE 0010				
70+35 - 311+94	LT & RT	42,880	17,020	ON MILLED SURFACE
70+35 - 311+94	LT & RT	42,880	17,020	ON LOWER LAYER
70+35 - 311+94	LT & RT	42,880	17,020	ON FINAL SURFACE PRIOR TO MILLING RUMBLE STRIPS
		128,640	51,060	
	TOTAL	**179,700**		

PAVEMENT MARKING ITEMS

STATION - STATION	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH YELLOW LF	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH WHITE LF	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH YELLOW LF	646.6120 MARKING STOP LINE EPOXY 18-INCH WHITE LF	646.6466 COLD WEATHER MARKING EPOXY 6-INCH WHITE LF	646.6466 COLD WEATHER MARKING EPOXY 6-INCH YELLOW LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH YELLOW LF	COMMENTS
CATEGORY CODE 0010									
70+35 - 311+94	LT & RT	--	43,503	20,647	--	11,060	5,250	--	--
98+85	LT & RT	238	--	--	--	--	--	--	TECUMSEH ROAD
125+25	LT	118	--	--	--	--	--	--	THEDE ROAD
185+56	LT	126	--	--	--	--	--	--	REDWOOD ROAD
282+09	LT & RT	306	--	--	--	--	--	--	QUARRY ROAD
291+10 - 292+19	LT & RT	282	--	--	77	--	--	76	IRISH ROAD
			43,503	20,647		11,060	5,250		
	TOTALS	**1,070**	**64,150**		**77**	**16,310**		**76**	

CONSTRUCTION STAKING ITEMS

LOCATION	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
CATEGORY CODE 0010		
70+35 - 311+94	24,113	--
243+93 - 245+46	--	153
TOTALS	**24,113**	**153**

STAKING ITEMS FOR PIPE CULVERTS SHOWN ELSEWHERE.

SAWING PAVEMENT ITEMS

STATION	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	COMMENTS
CATEGORY CODE 0010				
204+04	LT & RT	12	48	CULVERT PIPE REPLACEMENT
242+40	LT & RT	12	48	CULVERT PIPE REPLACEMENT
245+42	LT & RT	12	48	CULVERT PIPE REMOVAL
260+82	LT & RT	12	48	CULVERT PIPE REPLACEMENT
270+10	LT & RT	12	48	CULVERT PIPE REPLACEMENT
TOTALS		**60**	**240**	

FOUNDATION BACKFILL

STATION	LOCATION	SPV.0035.01 CY	COMMENTS
CATEGORY CODE 0010			
204+04	LT & RT	355	CULVERT REPLACEMENT
242+40	LT & RT	353	CULVERT REPLACEMENT
245+43	LT & RT	383	CULVERT REMOVAL
260+82	LT & RT	350	CULVERT REPLACEMENT
270+10	LT & RT	339	CULVERT REPLACEMENT
TOTAL		**1,780**	

FOUNDATION BACKFILL WEIGHT CALCULATIONS BASED ON 1.0 TONS/ CY.

TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 12 DAYS	643.0900* SIGNS DAYS	643.0420* BARRICADES TYPE III DAY	643.0705* WARNING LIGHTS TYPE A DAY	643.1000 SIGNS FIXED MESSAGE SF	643.1050* SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO. OF CYCLES	643.0920 COVERING TYPE II SIGNS EACH	REMARKS
1	US 151/STH 32/57, S. OF US 151 SPLIT, PLACE 1500' N. OF CTH G INTERSECTION	M 1-6	24"X24"	1	12	12							
	"	M 1-6	24"X24"	1	12	12							
	"	W 20-2A	48"X48"	1	12	12							
2	US 151/STH 32/57, S. OF US 151 SPLIT, PLACE 1000' N. OF CTH G INTERSECTION	FMS	54"X30"	1					11.25				SEE SIGN DETAIL SHEET
3	US 151/STH 32/57, S. OF US 151 SPLIT, MODIFY/COVER EXISTING TYPE II SIGN AS SHOWN	M 4-8	24"X12"	1	12	12					1	1	COVER "NORTH 151"
	"	MO 6-1	21"X21"	1	12	12							
4	US 151/STH 32/57, AT CTH G, MODIFY/COVER EXISTING TYPE II SIGN AS SHOWN	M 4-8	24"X12"	1	12	12					1	1	COVER "NORTH 151"
	"	MO 6-1	21"X21"	1	12	12							
5	US 151/STH 32/57, AT CTH G, PLACE IN SE QUADRANT OF INTERSECTION	R 11-3	60"X30"	1	12	12	12	24					XX MILES AHEAD, CHANGE AS CLOSED LOCATION MOVES
	"	M 4-9R	30"X24"	1	12	12							
6	US 151/STH 32/57, E. OF CTH G, PLACE 150' E. OF CTH G INTERSECTION	M 4-8	24"X12"	1	12	12							
	"	M 3-3	24"X12"	1	12	12							
	"	M 1-6	24"X24"	1	12	12							32
	"	M 1-6	24"X24"	1	12	12							57
	"	MO 6-1	21"X21"	1	12	12							LEFT
7	US 151/STH 32/57, E. OF CTH G, COVER EXISTING TYPE II SIGN AS SHOWN										1	1	COVER "SOUTH 32-57"
8	US 151/STH 32/57, E. OF CTH G, PLACE 650' E. OF CTH G INTERSECTION	M 4-8	24"X12"	1	12	12							
	"	M 3-3	24"X12"	1	12	12							
	"	M 1-6	24"X24"	1	12	12							32
	"	M 1-6	24"X24"	1	12	12							57
	"	MO 5-1L	21"X21"	1	12	12							
9	STH 32/57, AT US 151, MODIFY EXISTING J3-2 SIGN AS SHOWN	M 4-8	24"X12"	1	12	12							
	"	MO 6-1	21"X21"	1	12	12							RIGHT
	"	M 4-8	24"X12"	1	12	12							
	"	MO 6-1	21"X21"	1	12	12							RIGHT
10	STH 32/57, AT US 151, PLACE ON RIGHT SHOULDER IN SW QUADRANT AT US 151 INTERSECTION	R 11-3	60"X30"	1	12	12	12	24					XX MILES AHEAD, CHANGE AS CLOSED LOCATION MOVES
11	STH 32/57, S. OF US 151, COVER EXISTING J4-2 SIGN AS SHOWN										1	1	COVER ENTIRE SIGN
12	STH 32/57, S. OF US 151, PLACE ON RIGHT SHOULDER, FIELD DETERMINE LOCATION			1						7			PLACE IN ADVANCE OF CLOSURE
13	US 151, E. OF STH 32/57, PLACE LEFT OF EXISTING J2-3 SIGN AND MODIFY EXISTING J2-3 AS SHOWN	M 4-8	24"X12"	1	12	12							
	"	M 3-3	24"X12"	1	12	12							
	"	M 1-6	24"X24"	1	12	12							32
	"	MO 6-2	21"X21"	1	12	12							TILT RIGHT
	"	M 4-8	24"X12"	1	12	12							
	"	MO 6-2	21"X21"	1	12	12							TILT RIGHT
14	US 151, E. OF STH 32/57, PLACE 1000' E. OF STH 32/57 INTERSECTION	FMS	78"x48"	1					26				SEE SIGN DETAIL SHEET
15	US 151, E. OF STH 32/57, PLACE 1500' E. OF STH 32/57 INTERSECTION	M 1-6	24"X24"	1	12	12							32
	"	M 1-6	24"X24"	1	12	12							57
	"	W 20-2A	48"X48"	1	12	12							
16	CTH G, AT US 151/STH 32/57, PLACE/COVER EXISTING J3-3 SIGN AS SHOWN	M 1-6	24"X24"	1	12	12					1	1	32, COVER "32-57"
	"	M 1-6	24"X24"	1	12	12							57
	"	MO 6-1	21"X21"	1	12	12							AHEAD
17	CTH G, S. OF US 151/STH 32-57, PLACE 250' S. OF US 151/STH 32-57 INTERSECTION	M 4-8	24"X12"	1	12	12							
	"	M 3-3	24"X12"	1	12	12							
	"	M 1-6	24"X24"	1	12	12							32
	"	M 1-6	24"X24"	1	12	12							57
18	CTH G, S. OF US 151/STH 32-57, MODIFY EXISTING J1-2 SIGN AS SHOWN	M 4-8A	24"X18"	1	12	12							
	"	M 4-8A	24"X18"	1	12	12							
	PAGE SUBTOTALS			45		504	24	48	37.25	7		5	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN PLAN.

PLAN SHEET PRODUCED

BY WisDOT - NE REGION

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TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 12 DAYS	643.0900* SIGNS DAYS	643.0420* BARRICADES TYPE III DAY	643.0705* WARNING LIGHTS TYPE A DAY	643.1000 SIGNS FIXED MESSAGE SF	643.1050* SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO. OF CYCLES	643.0920 COVERING TYPE II SIGNS EACH	REMARKS
19	CTH G, N. OF CTH H, PLACE 500' N. OF CTH H INTERSECTION	M 4-8	24"X12"	1	12	12							
	"	M 3-3	24"X12"	1	12	12							
	"	M 1-6	24"X24"	1	12	12							32
	"	M 1-6	24"X24"	1	12	12							57
	"	MO 5-1L	21"X21"	1	12	12							
20	CTH G, N. OF CTH H, PLACE 250' N. OF CTH H INTERSECTION	M 4-8	24"X12"	1	12	12							
	"	M 3-1	24"X12"	1	12	12							
	"	M 1-6	24"X24"	1	12	12							32
	"	M 1-6	24"X24"	1	12	12							57
21	CTH G, AT CTH G, PLACE RIGHT OF EXISTING J13-2 SIGN AT CTH G INTERSECTION	M 4-8	24"X12"	1	12	12							
	"	M 3-3	24"X12"	1	12	12							
	"	M 1-6	24"X24"	1	12	12							32
	"	M 1-6	24"X24"	1	12	12							57
	"	MO 6-1	21"X21"	1	12	12							LEFT
22	CTH H, AT CTH G, PLACE RIGHT OF EXISTING J13-1 SIGN	M 4-8	24"X12"	1	12	12							
	"	M 3-1	24"X12"	1	12	12							
	"	M 1-6	24"X24"	1	12	12							32
	"	M 1-6	24"X24"	1	12	12							57
	"	MO 6-1	21"X21"	1	12	12							RIGHT
23	CTH H, E. OF CTH G, PLACE 250' E. OF CTH G INTERSECTION	M 4-8	24"X12"	1	12	12							
	"	M 3-3	24"X12"	1	12	12							
	"	M 1-6	24"X24"	1	12	12							32
	"	M 1-6	24"X24"	1	12	12							57
24	CTH H, E. OF CTH G, PLACE 500' E. OF CTH G INTERSECTION	M 4-8	24"X12"	1	12	12							
	"	M 3-1	24"X12"	1	12	12							
	"	M 1-6	24"X24"	1	12	12							32
	"	M 1-6	24"X24"	1	12	12							57
	"	MO 5-1R	21"X21"	1	12	12							
25	CTH H, W. OF CTH A, PLACE 150' W. OF CTH A INTERSECTION	M 4-8	24"X12"	1	12	12							
	"	M 3-3	24"X12"	1	12	12							
	"	M 1-6	24"X24"	1	12	12							32
	"	M 1-6	24"X24"	1	12	12							57
	"	MO 6-1	21"X21"	1	12	12							AHEAD
26	CTH H, E. OF CTH A, PLACE 150' E. OF CTH A INTERSECTION	M 4-8	24"X12"	1	12	12							
	"	M 3-1	24"X12"	1	12	12							
	"	M 1-6	24"X24"	1	12	12							32
	"	M 1-6	24"X24"	1	12	12							57
	"	MO 6-1	21"X21"	1	12	12							AHEAD
27	CTH H, W. OF STH 32/57, MODIFY EXISTING J1-2 SIGN AS SHOWN	M 4-8A	24"X18"	1	12	12							
	"	M 4-8A	24"X18"	1	12	12							
28	CTH H, AT STH 32/57, PLACE 150' PRIOR TO STH 32/57 INTERSECTION	M 4-8	24"X12"	1	12	12							
	"	M 1-6	24"X24"	1	12	12							32
	"	M 1-6	24"X24"	1	12	12							57
	"	MO 6-1	21"X21"	1	12	12							AHEAD
29	STH 32/57, S. OF CTH H, PLACE 1500' S. OF CTH H INTERSECTION	W 20-2A	48"X48"	1	12	12							
	PAGE SUBTOTALS			45		540	0	0	0	0		0	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN PLAN.

PLAN SHEET PRODUCED

BY WisDOT - NE REGION

3

TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 12 DAYS	643.0900* SIGNS DAYS	643.0420* BARRICADES TYPE III DAY	643.0705* WARNING LIGHTS TYPE A DAY	643.1000 SIGNS FIXED MESSAGE SF	643.1050* SIGNS PORTABLE CHANGEABLE MESSAGE DAYS	NO. OF CYCLES	643.0920 COVERING TYPE II SIGNS EACH	REMARKS
30	STH 32/57, S. OF CTH H, PLACE 1000' S. OF CTH H INTERSECTION	FMS	54"X30"	1					11.25				SEE SIGN DETAIL SHEET
31	STH 32/57, S. OF CTH H, PLACE 500' S. OF CTH H INTERSECTION	M 4-8	24"X12"	1	12	12							
	"	M 3-1	24"X12"	1	12	12							
	"	M 1-6	24"X24"	1	12	12							32
	"	M 1-6	24"X24"	1	12	12							57
	"	MO 6-1	21"X21"	1	12	12							AHEAD
32	STH 32/57, AT CTH H, MODIFY EXISTING J3-1 SIGN AS SHOWN	M 4-8	24"X12"	1	12	12							
	"	MO 6-1	21"X21"	1	12	12							AHEAD
33	STH 32/57, AT CTH H, PLACE ON RIGHT SHOULDER IN NE QAUDRANT OF INTERSECTION	R 11-3	60"X30"	1	12	12	12	24					XX MILES AHEAD, CHANGE AS CLOSED LOCATION MOVES
	"	M 4-9L	30"X24	1	12	12							
34	STH 32/57, N. OF CTH H, COVER EXISTING J4-1 SIGN AS SHOWN										1	1	COVER ENTIRE SIGN
35	STH 32/57, N. OF CTH H, PLACE ON RIGHT SHOULDER, FIELD DETERMINE LOCATION	PCMS		1						7			PLACE IN ADVANCE OF CLOSURE
36	STH 32/57, AT TECUMSEH RD, PLACE ON RIGHT SHOULDER IN NE QUADRANT OF INTERSECTION	R 11-3	60"X30"	1	12	12	12	24					XX MILES AHEAD, CHANGE AS CLOSED LOCATION MOVES
	PAGE SUBTOTALS			12		120	24	48	11.25	7		1	
	DETOUR TOTALS			**102**		**1,164**	**48**	**96**	**48.5**	**14**		**6**	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN PLAN.

PLAN SHEET PRODUCED

BY WisDOT - NE REGION

TRANSPORTATION PROJECT PLAT NO: 4085-67-21 - 4.01

THAT PART OF THE SE1/4-NW1/4 OF SECTION 29, T18N, R20E, TOWN OF CHARLESTOWN, CALUMET COUNTY, WISCONSIN

RELOCATION ORDER STH 32 NEW HOLSTEIN - CHILTON ALTONA AVE - USH 151 CALUMET COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), CALUMET COUNTY, NAD83(2011) IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

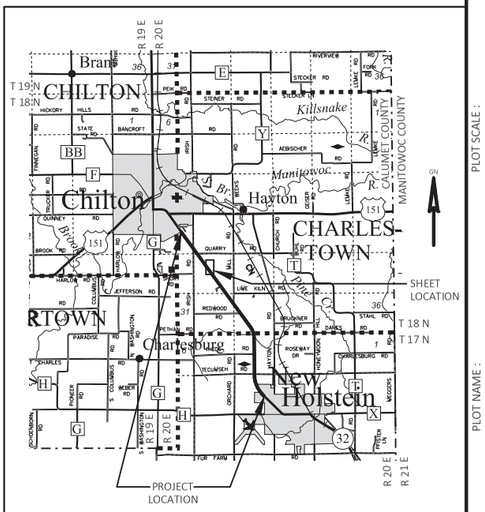
FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY.

DOCUMENT # 571205
TAMARA ALTEN
REGISTER OF DEEDS
CALUMET COUNTY, WI
06/22/2022 11:39 AM
VOL: D PAGE: 157
RECORDING FEE: 25.00

31

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 4085-67-21 - 4.01
SHEET 1 OF 2

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2.



R/W COURSE TABLE

FROM POINT	TO POINT	BEARING	DISTANCE
501	502	N36°01'04"W	424.95'
502	503	N30°18'25"W	100.50'
503	504	N53°58'56"E	10.00'
504	505	N36°01'04"W	153.00'
505	506	S53°58'56"W	40.00'
506	507	N36°01'04"W	25.00'
507	508	N53°58'56"E	10.00'
508	509	N36°01'04"W	113.00'
509	510	N53°58'56"E	20.00'
510	511	N36°01'04"W	279.00'
511	512	S53°58'56"W	10.00'
512	513	N36°01'04"W	30.00'
513	514	N53°58'56"E	10.00'
515	516	S36°01'04"E	437.00'
516	517	N53°58'56"E	30.00'
517	518	S36°01'04"E	30.00'
518	519	S53°58'56"W	20.00'
519	520	S36°01'04"E	133.00'
520	521	S53°58'56"W	10.00'
521	522	S36°01'04"E	604.26'

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS
Stevens Point • Fond du Lac

I, JAY W. PANETTI, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED THIS TRANSPORTATION PROJECT PLAT AND SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: _____ DATE: 6/20/2022
PRINT NAME: JAY W. PANETTI
REGISTRATION NUMBER: S-2747

WISCONSIN JAY W. PANETTI S-2747 WAUPUN, WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

SIGNATURE: _____ DATE: 6/20/2022
PRINT NAME: AL ROMMEL

BASIS OF EXISTING R/W

ROUTE	BASIS	YEAR
STH 32	R/W PROJECT NUMBER 4085-09-21	1992
	DIVISION JOB NO. 3714	1936

EXISTING ACCESS CONTROL ALONG STH 32 HAS BEEN ESTABLISHED FROM PREVIOUS CONTROLLED ACCESS PROJECT 4085-30-29.

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED	EASEMENTS
40	FRONTIER COMMUNICATIONS - TELEPHONE	RELEASE OF RIGHTS	VOL. 110, P11 DOC. 117290 - PARCEL 3 J2838, I55 DOC. 243163 - PARCEL 3

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL
3	THEODORE H. PAGEL AND DONNA M. PAGEL, AS TRUSTEES OF THE THEODORE H. PAGEL AND DONNA M. PAGEL LIVING TRUST DATED NOVEMBER 11, 2003	FEE	0.007	0	0.007

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

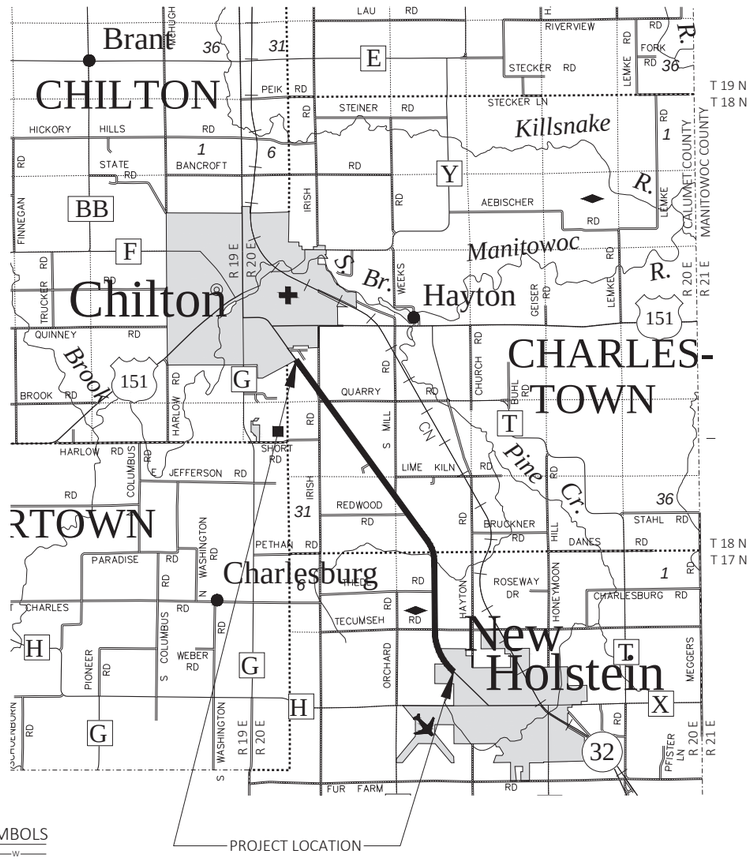
409
ALUMINUM MONUMENT FOUND
Y 467254.23
X 897020.91

412
1" IRON PIPE FOUND
Y 467264.72
X 899666.08

PLOT SCALE :
PLOT NAME :
PLOT BY : Jay Panetti
PLOT DATE : 6/20/2022 8:22 AM
PLOT DATE :
FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\4085670DW\RW\DWG\040401-RP.DWG
APPRAISAL PLAT DATE : 6/20/2022

4085-67-21 - 4.01

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
4085-67-21
NEW HOLSTEIN - CHILTON
ALTONA AVE - USH 151
STH 32
CALUMET COUNTY



GN

LAYOUT
SCALE 0 1 MI.

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
TO BE REMOVED
BRIDGE
CULVERT

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED)
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
OFF-PREMISE SIGN

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE		
TELEPHONE POLE		
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)		

ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER 25
UTILITY NUMBER 40
PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	POINT OF COMPOUND CURVE	PCC
ACRES	AC	POINT OF INTERSECTION	PI
AHEAD	AH	PROPERTY LINE	PL
ALUMINUM	ALUM	RECORDED AS	(100')
AND OTHERS	ET AL	REEL / IMAGE	R/I
BACK	BK	REFERENCE LINE	R/L
BLOCK	BLK	REMAINING	REM
CENTERLINE	C/L	RESTRICTIVE DEVELOPMENT EASEMENT	RDE
CERTIFIED SURVEY MAP	CSM	RIGHT	RT
CONCRETE	CONC	RIGHT OF WAY	R/W
COUNTY	CO	SECTION	SEC
COUNTY TRUNK HIGHWAY	CTH	SEPTIC VENT	SEPV
DISTANCE	DIST	SQUARE FEET	SF
CORNER	COR	STATE TRUNK HIGHWAY	STH
DOCUMENT NUMBER	DOC	STATION	STA
EASEMENT	EASE	TELEPHONE PEDESTAL	TP
EXISTING	EX	TEMPORARY LIMITED EASEMENT	TLE
GAS VALVE	GV	TRANSPORTATION PROJECT PLAT	TPP
GRID NORTH	GN	UNITED STATES HIGHWAY	USH
HIGHWAY EASEMENT	HE	VOLUME	VOL
IDENTIFICATION	ID		
LAND CONTRACT	LC		
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS		
NUMBER	NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		

CURVE DATA ABBREVIATIONS

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ /DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS
ELECTRIC TOWER	

THE NOTES,CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 4085-67-21

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), CALUMET COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY.

PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE TPP DETAIL PAGES.

INFORMATION FOR THE BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE AND ACCESS CONTROL ARE LISTED ON THE TPP DETAIL PAGES.

PROJECT NUMBER	4085-67-21 - 4. 01
SHEET	2 OF 2
AMENDMENT NO:	

FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\40856700\RW\DWG\040400-RP.DWG
LAYOUT NAME: TPP Title 34x22
PLOT DATE : 5/27/2022 11:14 AM PLOT BY : JAY PANETTI PLOT NAME : _____

NOTES:
THIS EXHIBIT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. REFER TO THE CONVEYANCE DOCUMENT FOR PARCEL RELATED DETAILS.

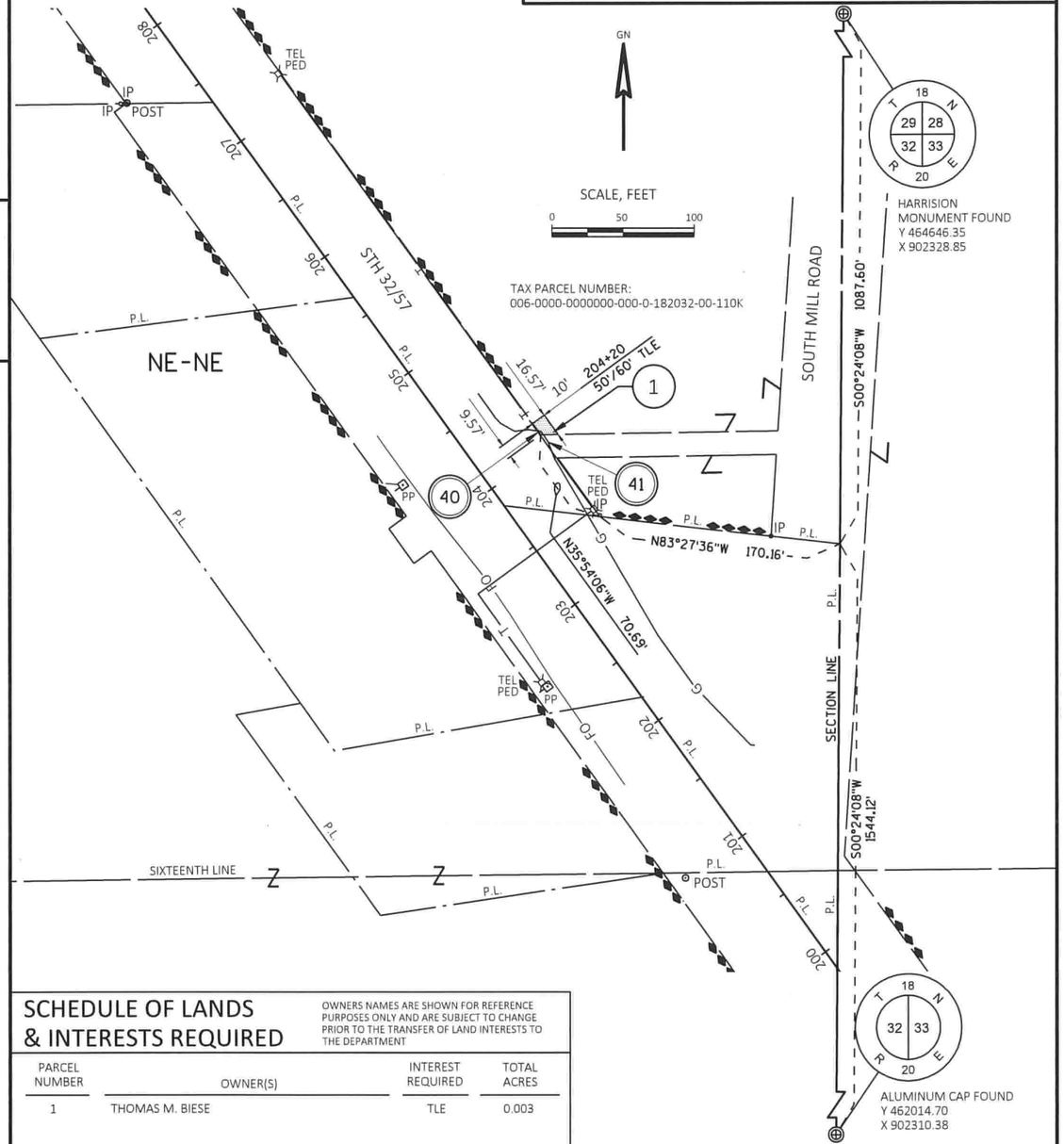
PURPOSE OF ALL TLEs IS FOR GRADING, UNLESS OTHERWISE NOTED.

TLE ACQUISITION IS LOCATED APPROXIMATELY 1000 FEET SOUTH OF THE NORTH LINE OF SECTION 32, T18N, R20E.

R/W PROJECT NUMBER: 4085-67-21	SHEET NUMBER: 1

TLE ACQUISITION EXHIBIT
NEW HOLSTEIN - CHILTON
ALTONA AVE - USH 151
STH 32 CALUMET COUNTY

PART OF THE NE1/4 OF THE NE1/4 OF SECTION 32, T18N, R20E,
TOWN OF CHARLESTOWN, CALUMET COUNTY, WISCONSIN.



SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TOTAL ACRES
1	THOMAS M. BIESE	TLE	0.003

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
40	FRONTIER COMMUNICATIONS - TELEPHONE	TEMPORARY RELEASE OF RIGHTS
41	WISCONSIN PUBLIC SERVICE CORPORATION - GAS	TEMPORARY RELEASE OF RIGHTS

THIS MAP IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
NORTHEAST REGION - GREEN BAY

SIGNATURE: Jon L. Herbel DATE: 06/24/2022

PRINT NAME: Jon L. Herbel

APPRAISAL DATE: 06/24/2022

FILE NAME : 40856721 TLE EXHIBIT 1-2.DWG PLOT DATE : 6/20/2022 12:11 PM R/W PROJECT: 4085-67-21

4

NOTES:
THIS EXHIBIT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. REFER TO THE CONVEYANCE DOCUMENT FOR PARCEL RELATED DETAILS.

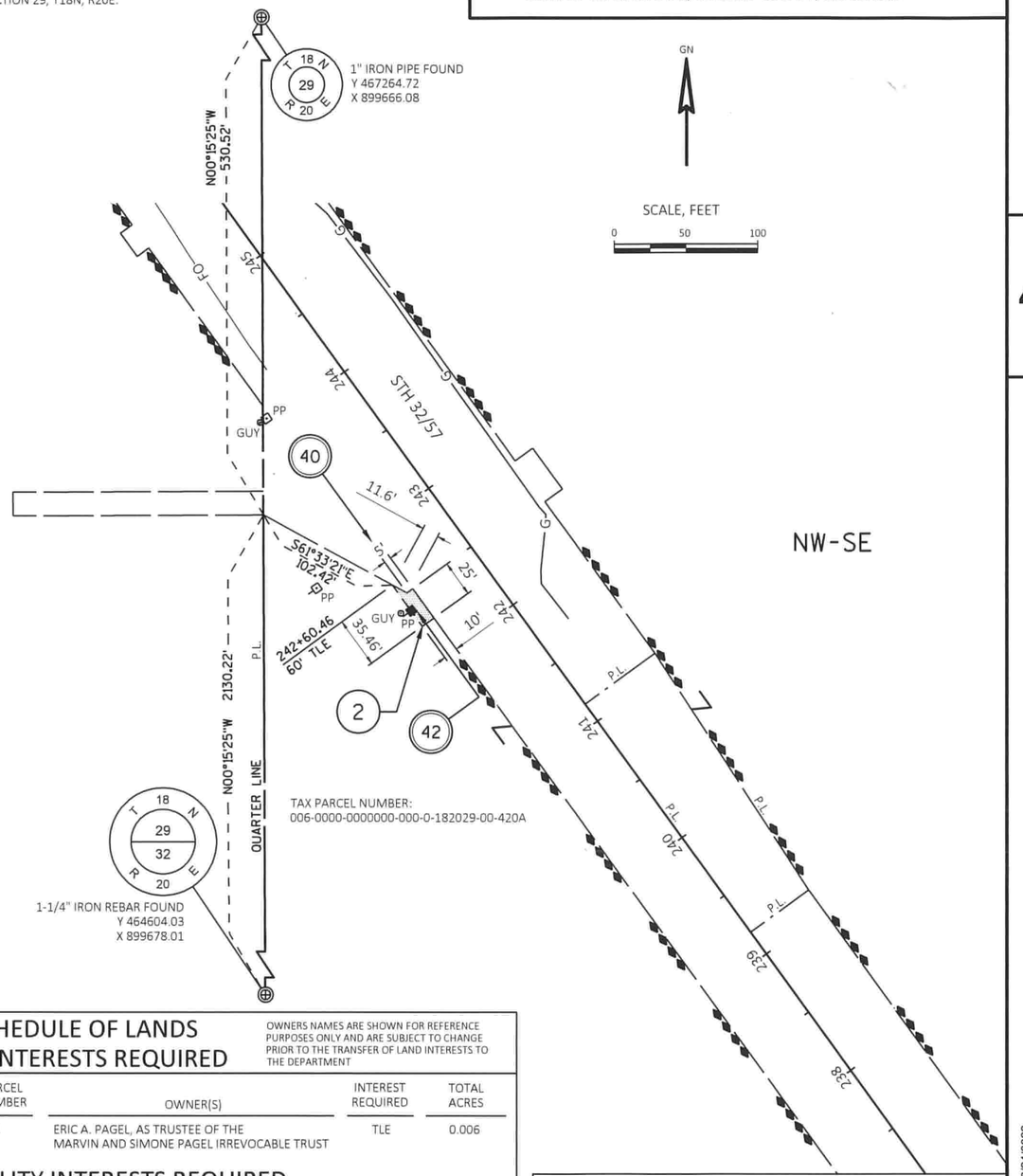
PURPOSE OF ALL TLEs IS FOR GRADING, UNLESS OTHERWISE NOTED.

TLE ACQUISITION IS LOCATED APPROXIMATELY 2064 FEET NORTH OF THE SOUTH LINE OF SECTION 29, T18N, R20E.

R/W PROJECT NUMBER: 4085-67-21	SHEET NUMBER: 2

TLE ACQUISITION EXHIBIT
NEW HOLSTEIN - CHILTON
ALTONA AVE - USH 151
STH 32 CALUMET COUNTY

PART OF THE NW1/4 OF THE SE1/4 OF SECTION 29, T18N, R20E,
TOWN OF CHARLESTOWN, CALUMET COUNTY, WISCONSIN.



SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TOTAL ACRES
2	ERIC A. PAGEL, AS TRUSTEE OF THE MARVIN AND SIMONE PAGEL IRREVOCABLE TRUST	TLE	0.006

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
40	FRONTIER COMMUNICATIONS - TELEPHONE	TEMPORARY RELEASE OF RIGHTS
42	WISCONSIN PUBLIC SERVICE CORPORATION - ELECTRIC	TEMPORARY RELEASE OF RIGHTS

THIS MAP IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
NORTHEAST REGION - GREEN BAY

SIGNATURE: Jon L. Herbel DATE: 06/24/2022

PRINT NAME: Jon L. Herbel

APPRAISAL DATE:06/24/2022

FILE NAME : 40856721 TLE EXHIBIT 1-2.DWG PLOT DATE : 6/20/2022 12:11 PM R/W PROJECT: 4085-67-21

4

NOTES:
THIS EXHIBIT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. REFER TO THE CONVEYANCE DOCUMENT FOR PARCEL RELATED DETAILS.

PURPOSE OF ALL TLEs IS FOR GRADING, UNLESS OTHERWISE NOTED.

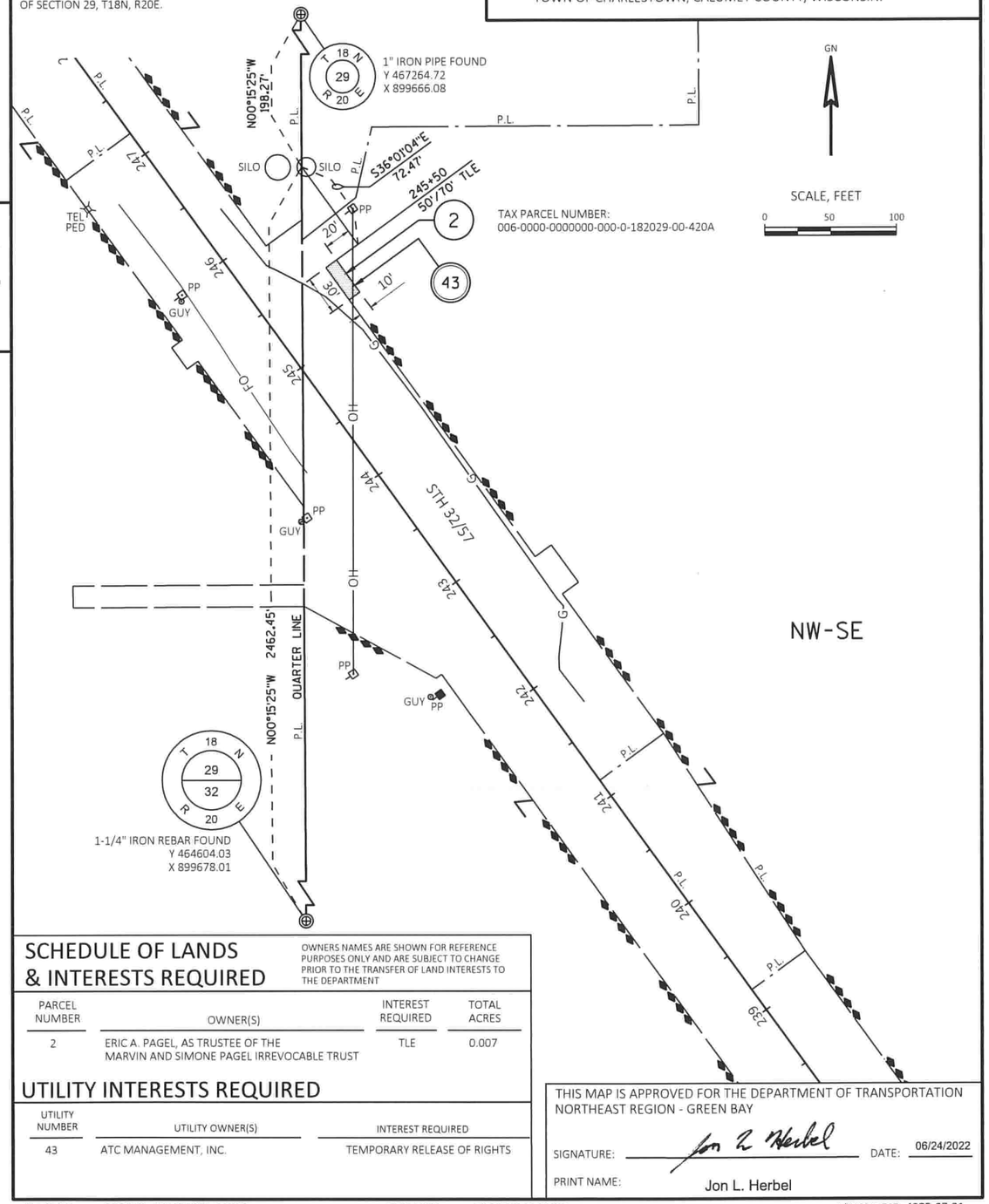
TLE ACQUISITION IS LOCATED APPROXIMATELY 2377 FEET NORTH OF THE SOUTH LINE OF SECTION 29, T18N, R20E.

R/W PROJECT NUMBER: 4085-67-21	SHEET NUMBER: 3

TLE ACQUISITION EXHIBIT
NEW HOLSTEIN - CHILTON
ALTONA AVE - USH 151

STH 32 — CALUMET COUNTY

PART OF THE NW1/4 OF THE SE1/4 OF SECTION 29, T18N, R20E,
TOWN OF CHARLESTOWN, CALUMET COUNTY, WISCONSIN.



SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TOTAL ACRES
2	ERIC A. PAGEL, AS TRUSTEE OF THE MARVIN AND SIMONE PAGEL IRREVOCABLE TRUST	TLE	0.007

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
43	ATC MANAGEMENT, INC.	TEMPORARY RELEASE OF RIGHTS

THIS MAP IS APPROVED FOR THE DEPARTMENT OF TRANSPORTATION
NORTHEAST REGION - GREEN BAY

SIGNATURE: Jon L. Herbel DATE: 06/24/2022

PRINT NAME: Jon L. Herbel

APPRAISAL DATE: 06/24/2022

FILE NAME : 40856721 TLE EXHIBIT 3.DWG PLOT DATE : 6/20/2022 12:12 PM R/W PROJECT: 4085-67-21

4

R/W PROJECT NUMBER: 4085-67-21	SHEET NUMBER: 4

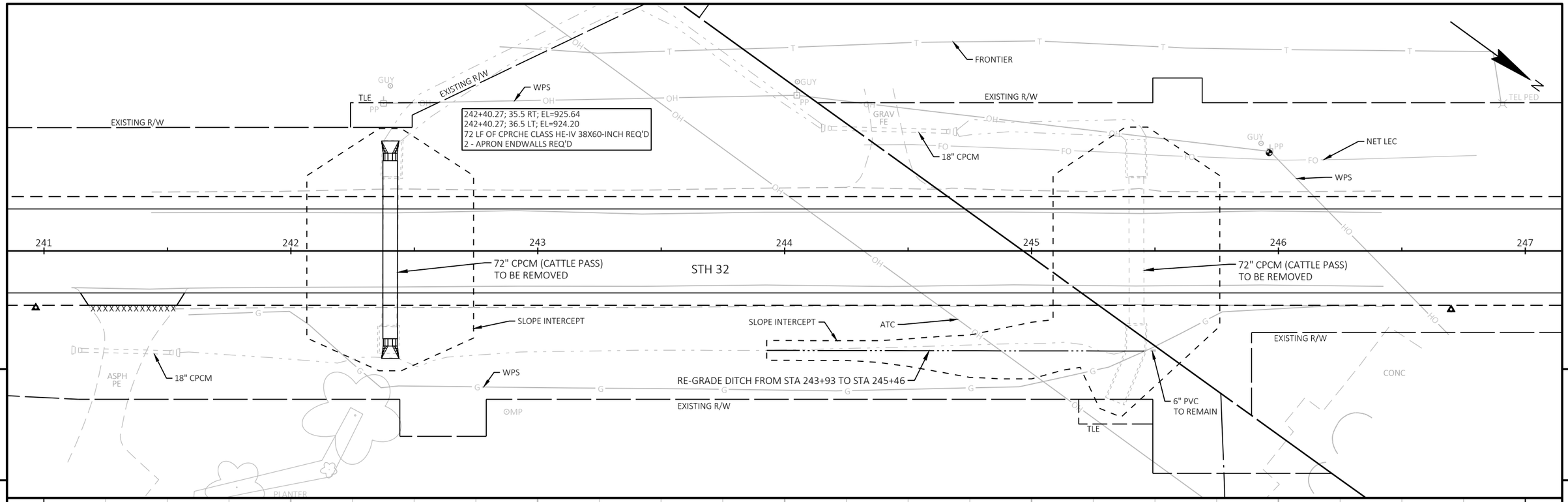
TLE ACQUISITION EXHIBIT
NEW HOLSTEIN - CHILTON
ALTONA AVE - USH 151

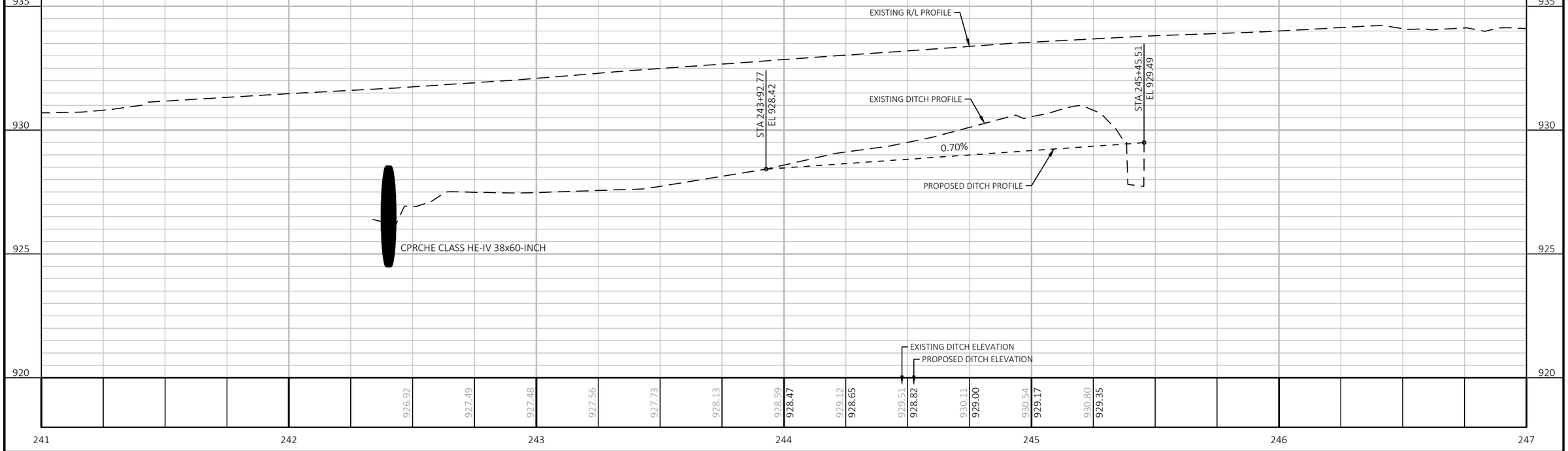
STH 32 — CALUMET COUNTY

PART OF THE NW1/4 OF THE SE1/4 OF SECTION 29, T18N, R20E,
TOWN OF CHARLESTOWN, CALUMET COUNTY, WISCONSIN.

FILE NAME : 40856721 TLE EXHIBIT 3.DWG PLOT DATE : 7/20/2022 10:28 AM R/W PROJECT: 4085-67-21

4





PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	PLAN AND PROFILE: DITCH RE-GRADING	SHEET 35	E

FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\40856700\SHEETSPLAN\40856771-050101-PP.DWG
LAYOUT NAME - Sheet-01
PLOT DATE : 4/14/2025 3:50 PM
PLOT BY : AARON SARAUER
PLOT NAME :
PLOT SCALE : 1:40_XREF
WISDOT/CADDS SHEET 44

SURVEY CONTROL TABLE				
POINT #	POINT DESCRIPTION	Y	X	ELEVATION
906	CP - 3/4" BAR WITH RED CAP	451760.255	905837.549	980.54
1012	BM - 60D NAIL IN POWER POLE #MK2029, EAST SIDE OF STH 32, 100' NORTH OF FORD DRIVE	452140.541	905601.085	980.00

SURVEY CONTROL TABLE				
POINT #	POINT DESCRIPTION	Y	X	ELEVATION
907	CP - 3/4" BAR WITH RED CAP	452310.479	905403.381	983.05
908	CP - 1" IP WITH RED CAP	453204.018	905066.380	975.47
1011	BM - 60D NAIL IN POWER POLE #F5 MK0755, EAST SIDE OF STH 32, 100' NORTH OF BILLBOARD	452765.073	905259.636	975.64

PI STA = 69+56.80
Y = 451371.599
X = 906073.682
DELTA = 11°31'03"
D = 2°00'03"
T = 288.78'
L = 575.61'
R = 2863.45'
PC STA = 66+68.02
Y = 451170.635
X = 906281.059
PT STA = 72+43.63
Y = 451609.922
X = 905910.606
SE = 4.5% (EXISTING)

PC: 66+68.02
X=906281.059
Y=451170.635

PT: 72+43.63
X=905910.606
Y=451609.922

2305 CALUMET DR

2306 CALUMET DR

2310 CALUMET DR

2600 FORD DR

ALTONA AVENUE

FORD DRIVE

N2041 HWY 57

STH 32

EXISTING R/W

IP

530.69'
N45° 53' 59.34"W

785.61'
N34° 22' 56.29"W

CP 906

CP 907

CP 908

BM 1012

BM 1011

ASPH
CE

ASPH
PE

GRAV
FE

BEGIN PROJECT
STA 70+35.00
Y=451,442.187
X=906,034.586
MATCH EXISTING
BUTT JOINT REQ'D

EQUATION
STA AHEAD = 72+41.74
STA BACK = 72+43.63

STA 77+47, 80' RT
MATCH EXISTING
BUTT JOINT REQ'D
(LOCATION TO BE VERIFIED BY
THE ENGINEER IN THE FIELD)

MATCH EXISTING
BUTT JOINT REQ'D

EQUATION
STA AHEAD = 94+06.35
STA BACK = 93+81.24

PC: 80+27.35
X=905466.963
Y=452258.277

PT: 93+81.24
X=905066.652
Y=453531.101

PI STA = 87+24.69
Y = 452833.787
X = 905073.164
DELTA = 33°50'50"
D = 2°30'00"
T = 697.34'
L = 1353.89'
R = 2291.83'
PC STA = 80+27.35
Y = 452258.277
X = 905466.963
PT STA = 93+81.24
Y = 453531.101
X = 905066.652
SE = 5.1% (EXISTING)

MATCH LINE 80+00

MATCH LINE 95+00

PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	PLAN	SHEET 36	E

FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\40856700\SHEETSPLAN\40856771-050201-PN.DWG
LAYOUT NAME - Sheet-01

PLOT DATE : 4/14/2025 4:37 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	PLAN	SHEET 37	E

FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\40856700\SHEETSPLAN\40856771-050201-PN.DWG
LAYOUT NAME - Sheet-02

PLOT DATE : 4/14/2025 4:38 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

THEDE ROAD

EXISTING R/W

STA 125+26, -83' LT
MATCH EXISTING
BUTT JOINT REQ'D
(LOCATION TO BE VERIFIED BY
THE ENGINEER IN THE FIELD)

IP

N2339 HWY 57

XXXX

TYPE 'B' INTERSECTION

R/W POST

ASPH
PE

MATCH EXISTING
BUTT JOINT REQ'D

EXISTING R/W

IP

GRAV
FE

XXXXX

126 128 130 132 134 136 138

STH 32

MATCH LINE 140+00

MATCH LINE 125+00

T 17 N
4
R 20 E

EXISTING R/W

IP

GRAV
FE

GRAV
PE

R/W POST

N2394 HWY 57

5

5

SURVEY CONTROL TABLE

POINT #	POINT DESCRIPTION	Y	X	ELEVATION
909	CP - 1" IP WITH RED CAP	458902.131	905041.988	915.00
1009	BM - MAG NAIL IN POWER POLE #MM0294, EAST SIDE OF STH 32, 500' NORTH OF BOX CULVERT	459181.569	905080.149	909.45
1010	BM - MAG NAIL IN POWER POLE #MM0386, EAST SIDE OF STH 32, 300' NORTH OF BOX CULVERT	458974.572	905107.567	903.50

N

N2511 HWY 57

MATCH LINE 155+00

IP

EXISTING R/W

154

152

150

148

146 144 142

PC: 146+89.57
X=905017.319
Y=458814.088

GRAV
PE

GRAV
FE

STH 32

CP 909

EXISTING STRUCTURE C-08-0036
NO WORK ANTICIPATED

GRAV
FE

BM 1009

IP

BM 1010

IP

EXISTING R/W

T 17 N
4
R 20 E

T 18 N
33
R 20 E

N2516 HWY 57

PI STA = 154+20.35
Y = 459544.837
X = 905010.495
DELTA = 35°22'16"
D = 2°30'00"
T = 730.78'
L = 1414.85'
R = 2291.83'
PC STA = 146+89.57
Y = 458814.088
X = 905017.319
PT STA = 161+26.50
Y = 460136.755
X = 904581.921
SE = 5.1% (EXISTING)

MATCH LINE 140+00

PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	PLAN	SHEET 38	E

FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\40856700\SHEETSPLAN\40856771-050201-PN.DWG
LAYOUT NAME - Sheet-03

PLOT DATE : 4/14/2025 4:38 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:100 FT

SURVEY CONTROL TABLE				
POINT #	POINT DESCRIPTION	Y	X	ELEVATION
910	CP - 1" IP WITH RED CAP	459650.350	904882.380	922.00

5

5

N2511 HWY 57

N2571 HWY 57

N2631 HWY 57

N2516 HWY 57

N2614 HWY 57

MATCH LINE 155+00

MATCH LINE 170+00

PT: 161+26.50
X=904581.921
Y=460136.755

STA AHEAD = 161+26.50
STA BACK = 161+04.41

EQUATION

EXISTING R/W

GRAV PE

GRAV FE

CP 910

156 158 160 162 164 166 168

4767.81'
N35° 54' 22.36"W

STH 32

IP

ASPH PE

CONC

MATCH EXISTING BUTT JOINT REQ'D

XXXXXX

MATCH LINE 170+00

MATCH LINE 185+00

N2631 HWY 57

W 1639 REDWOOD RD

MATCH EXISTING BUTT JOINT REQ'D

ASPH FE

ASPH CE

170 172 174 176 178 180 182 184

4767.81'
N35° 54' 22.36"W

STH 32

N2672 HWY 57

N2698 HWY 57

MATCH EXISTING BUTT JOINT REQ'D

XXXXXXXXXX

PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	PLAN	SHEET 39	E

FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\40856700\SHEETSPLAN\40856771-050201-PN.DWG
LAYOUT NAME - Sheet-04

PLOT DATE : 4/14/2025 4:38 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

5

MATCH LINE 185+00

MATCH LINE 200+00

EXISTING R/W

REDWOOD ROAD

⊙ R/W POST EXISTING R/W

STA 185+61, -86' LT
MATCH EXISTING
BUTT JOINT REQ'D
(LOCATION TO BE VERIFIED BY
THE ENGINEER IN THE FIELD)

XXXX

IP

N2773 HWY 57

IP

EXISTING R/W

GRAV
PE

⊙ R/W POST

186 188 190 4767.81' 192 194 196 198 20

N35° 54' 22.36"W

STH 32

TYPE 'B' INTERSECTION

EXISTING R/W

GRAV
PE

N2818 HWY 57

N2817 HWY 57

SLOPE INTERCEPT

N2851 HWY 57

N2867 HWY 57

N2881 HWY 57

N2889 HWY 57

N2893 HWY 57

CONC
PE

BM 1001

18" CPCM
TO REMAIN

MATCH EXISTING
BUTT JOINT REQ'D

MATCH EXISTING
BUTT JOINT REQ'D

MATCH EXISTING
BUTT JOINT REQ'D

TYPE 'B' INTERSECTION

WPS

PP

TEL PED

PP

EXISTING R/W

ASPH
PE

IP

IP

POST

ASPH
PE

ASPH
PE

ASPH
PE

POST

GRAV
PE

NET LEC

FO

BM 1000

FO

CP 912

GRAV

XXX

XXX

XXXXXXXXX

200 202 204 206 4767.81' 208 210 9204.23' 212 214

N35° 54' 22.36"W

STH 32

N36° 00' 51.58"W

FRONTIER

CP 911

WPS

MP

IP

TEL
PED

T

TLE

24" CPRC
TO BE REMOVED

FRONTIER

EXISTING R/W

R/W POST

PI: 208+94.31
X=901785.788
Y=463998.579

GRAV
PE

CONC
N2898 HWY 57

204+04.08; 39.0 LT; EL=939.12
204+04.08; 41.0 RT; EL=938.80
80 LF OF CPRC CLASS IV 24-INCH REQ'D
2 - APRON ENDWALLS REQ'D

EXISTING R/W

EXISTING R/W

EXISTING R/W

EXISTING R/W

EXISTING R/W

S MILL ROAD

EXISTING R/W

XXXX

STA 201+77, 67' RT
MATCH EXISTING
BUTT JOINT REQ'D
(LOCATION TO BE VERIFIED BY
THE ENGINEER IN THE FIELD)

N2818 HWY 57

MATCH LINE 200+00

MATCH LINE 215+00

5

SURVEY CONTROL TABLE

POINT #	POINT DESCRIPTION	Y	X	ELEVATION
911	CP - 1" IP WITH RED CAP	463467.555	902210.237	944.77
912	CP - 1" IP WITH RED CAP	463646.136	902010.992	944.95
1000	BM - MAG NAIL IN POWER POLE #KO9556, SOUTHWEST SIDE OF STH 32, 100' NORTHWEST OF SOUTH MILL ROAD	463459.360	902116.400	942.15
1001	BM - 60D NAIL IN POWER POLE #KO9161, SOUTHWEST SIDE OF STH 32, AT DRIVEWAY TO HOUSE #N2851	463601.081	902014.079	943.32

5

MATCH LINE 215+00

N2897 HWY 57

N 2921 HWY 57

MATCH EXISTING
BUTT JOINT REQ'D

ASPH
PE

GRAV
PE

XXXXXXXX

FE

EXISTING R/W

R/W POST

STA 229+11, -86' LT
MATCH EXISTING
BUTT JOINT REQ'D
(LOCATION TO BE VERIFIED BY
THE ENGINEER IN THE FIELD)

IP

EXISTING R/W

SHADY LANE

EXISTING R/W

XXXX

IP

TYPE 'B' INTERSECTION

MATCH LINE 230+00

216 218 220 222 9204.23' 224 226 228

STH 32

N36° 00' 51.58"W

GRAV
FE

N2898 HWY 57

EXISTING R/W

R/W POST

SURVEY CONTROL TABLE				
POINT #	POINT DESCRIPTION	Y	X	ELEVATION
913	CP - 1" IP WITH RED CAP	466602.370	899921.408	930.09
1002	BM - 60D NAIL IN POWER POLE #KP1373, NORTHEAST SIDE OF STH 32, AT HOUSE #N3086	466504.546	900006.357	931.56

242+40.27; 35.5 RT; EL=925.64
242+40.27; 36.5 LT; EL=924.20
72 LF OF CPRCHE CLASS HE-IV 38X60-INCH REQ'D
2 - APRON ENDWALLS REQ'D

30" CPCM
TO REMAIN

EXISTING R/W

EXISTING R/W

MATCH LINE 245+00

FRONTIER

18" CPCM
TO REMAIN

PP

TLE

GUY

T

GRAV
FE

EXIST R/W

SLOPE INTERCEPT

OH

WPS

NET LEC

IP

R/W POST

EXISTING R/W

24" CPRC
TO REMAIN

24" CPRC
TO REMAIN

230 232 234 236 9204.23' 238 240 242 244

N36° 00' 51.58"W

STH 32

GRAV
FE

BM 1002
PP

CP 913

XXXXX

ATC

WPS

G

EXISTING R/W

MATCH EXISTING
BUTT JOINT REQ'D

ASPH
PE

18" CPCM
TO REMAIN

MP

72" CPCM
(CATTLE PASS)
TO BE REMOVED

SLOPE INTERCEPT

PLANTER

N3086 HWY 57

RE-GRADE DITCH FROM STA 243+93 TO STA 245+46

MATCH LINE 230+00

5

PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	PLAN	SHEET 41	E

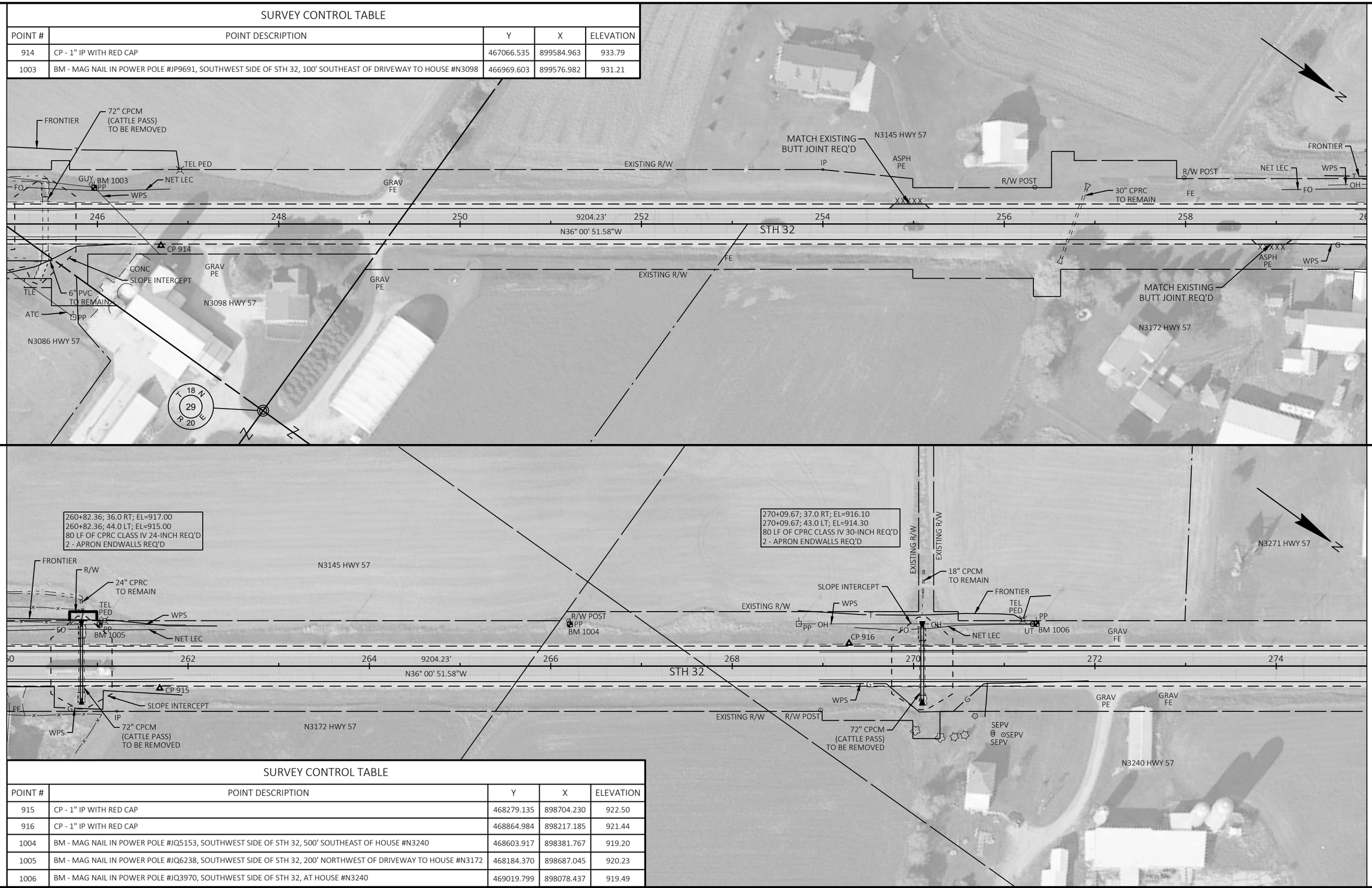
FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\40856700\SHEETSPLAN\40856771-050201-PN.DWG
LAYOUT NAME - Sheet-06

PLOT DATE : 4/14/2025 4:38 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

SURVEY CONTROL TABLE

POINT #	POINT DESCRIPTION	Y	X	ELEVATION
914	CP - 1" IP WITH RED CAP	467066.535	899584.963	933.79
1003	BM - MAG NAIL IN POWER POLE #JP9691, SOUTHWEST SIDE OF STH 32, 100' SOUTHEAST OF DRIVEWAY TO HOUSE #N3098	466969.603	899576.982	931.21



SURVEY CONTROL TABLE

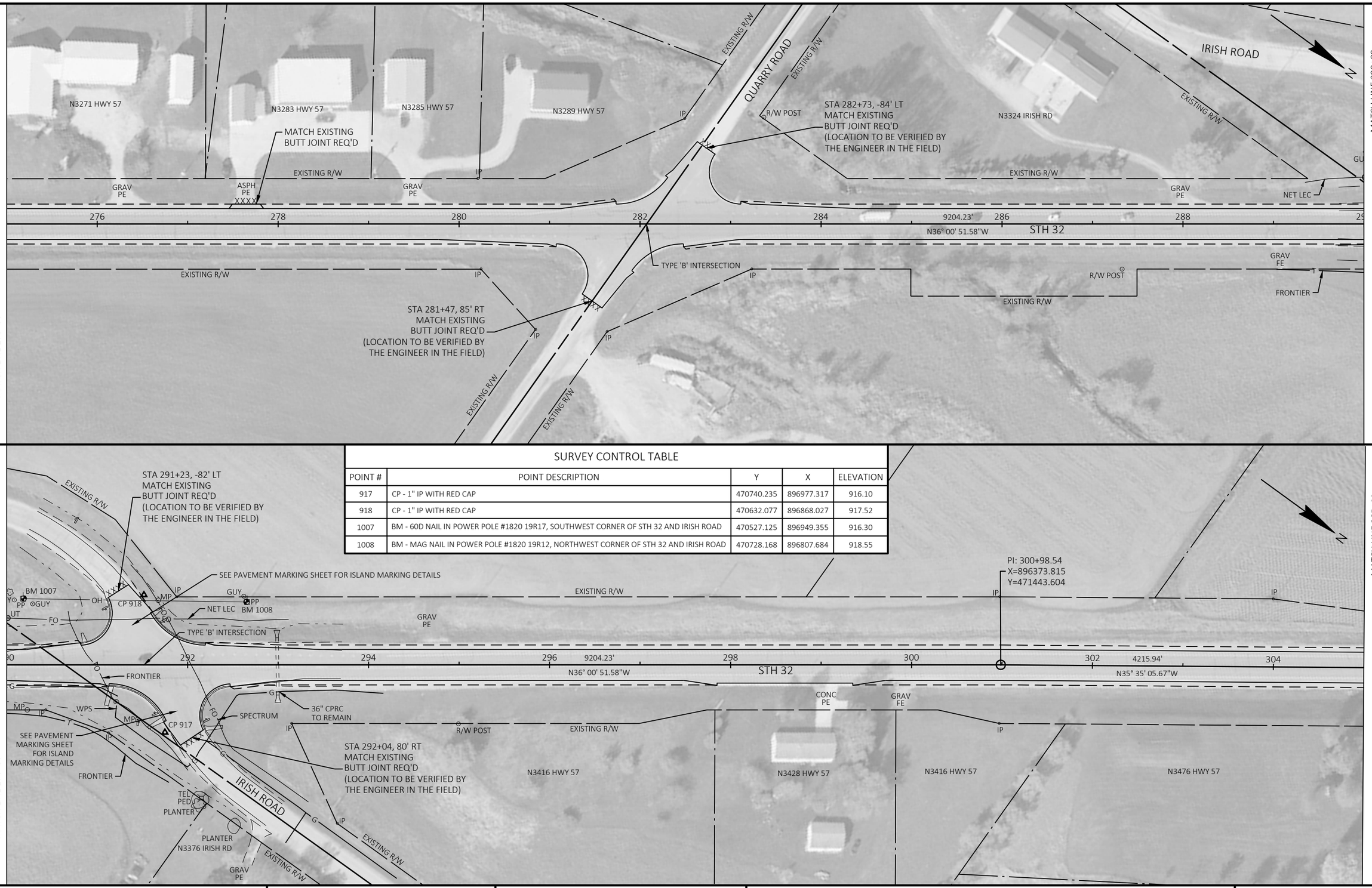
POINT #	POINT DESCRIPTION	Y	X	ELEVATION
915	CP - 1" IP WITH RED CAP	468279.135	898704.230	922.50
916	CP - 1" IP WITH RED CAP	468864.984	898217.185	921.44
1004	BM - MAG NAIL IN POWER POLE #JQ5153, SOUTHWEST SIDE OF STH 32, 500' SOUTHEAST OF HOUSE #N3240	468603.917	898381.767	919.20
1005	BM - MAG NAIL IN POWER POLE #JQ6238, SOUTHWEST SIDE OF STH 32, 200' NORTHWEST OF DRIVEWAY TO HOUSE #N3172	468184.370	898687.045	920.23
1006	BM - MAG NAIL IN POWER POLE #JQ3970, SOUTHWEST SIDE OF STH 32, AT HOUSE #N3240	469019.799	898078.437	919.49

PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	PLAN	SHEET 42	E

FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\40856700\SHEETSPLAN\40856771-050201-PN.DWG
LAYOUT NAME - Sheet-07

PLOT DATE : 4/14/2025 4:39 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



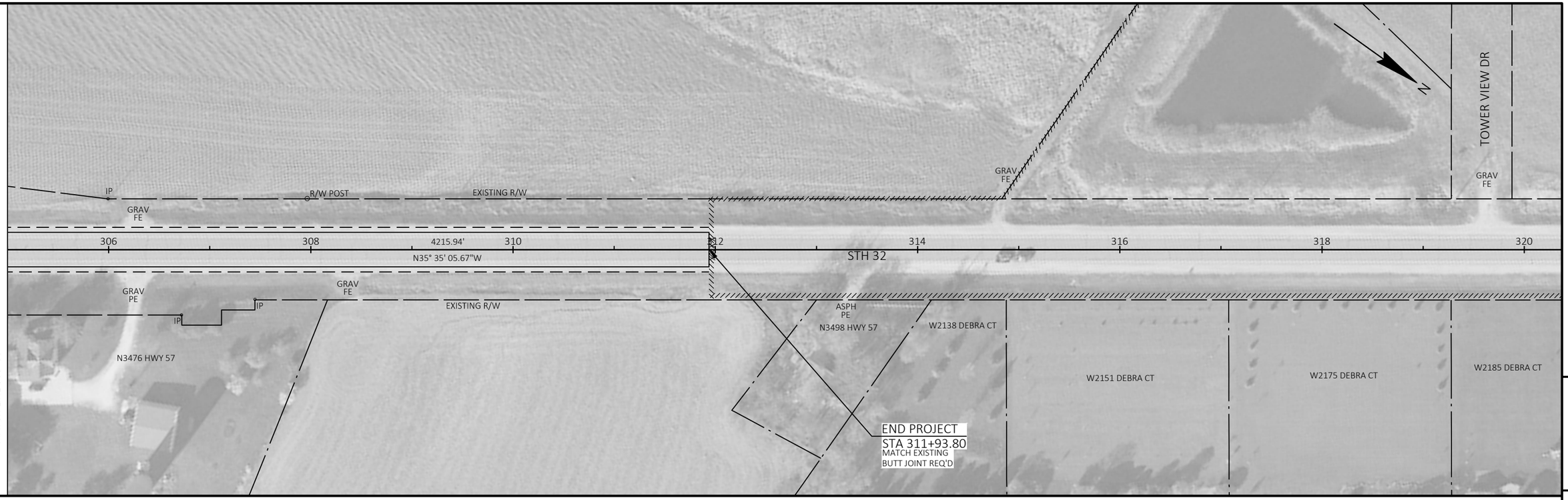
SURVEY CONTROL TABLE

POINT #	POINT DESCRIPTION	Y	X	ELEVATION
917	CP - 1" IP WITH RED CAP	470740.235	896977.317	916.10
918	CP - 1" IP WITH RED CAP	470632.077	896868.027	917.52
1007	BM - 60D NAIL IN POWER POLE #1820 19R17, SOUTHWEST CORNER OF STH 32 AND IRISH ROAD	470527.125	896949.355	916.30
1008	BM - MAG NAIL IN POWER POLE #1820 19R12, NORTHWEST CORNER OF STH 32 AND IRISH ROAD	470728.168	896807.684	918.55

PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	PLAN	SHEET 43	E

FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\40856700\SHEETSPLAN\40856771-050201-PN.DWG
LAYOUT NAME - Sheet-08

PLOT DATE : 4/14/2025 4:39 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:100 FT



PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	PLAN	SHEET 44	E

FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\40856700\SHEETSPLAN\40856771-050201-PN.DWG
LAYOUT NAME - Sheet-09

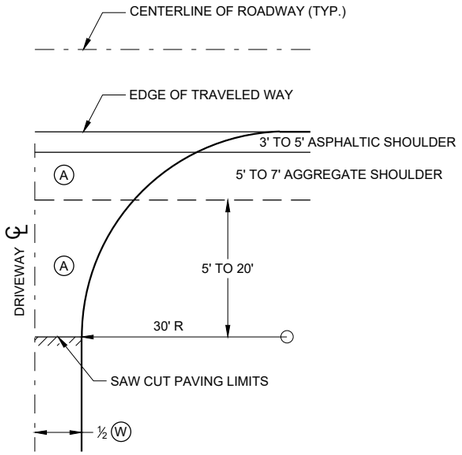
PLOT DATE : 4/14/2025 4:39 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:100 FT

Standard Detail Drawing List

08D22-01	DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
13A10-03A	SHOULDER RUMBLE STRIPS - ASPHALT
13A10-03E	EDGE LINE RUMBLE STRIPS - ASPHALT
13A10-03G	SHOULDER AND EDGE LINE RUMBLE STRIPS - CROSSINGS, INTERSECTIONS, BRIDGES, DRIVEWAYS
13A11-04A	CENTERLINE RUMBLE STRIPS - ASPHALT
13A11-04D	CENTERLINE RUMBLE STRIPS - INTERSECTIONS, DRIVEWAYS, BRIDGES, RAILROADS
13C19-03	HMA LONGITUDINAL JOINTS
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-09C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C02-09H	MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-23B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-09A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C33-05	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-06A	PAVEMENT MARKING (INTERSECTIONS)
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES
15D45-03	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH LOOSE GRAVEL

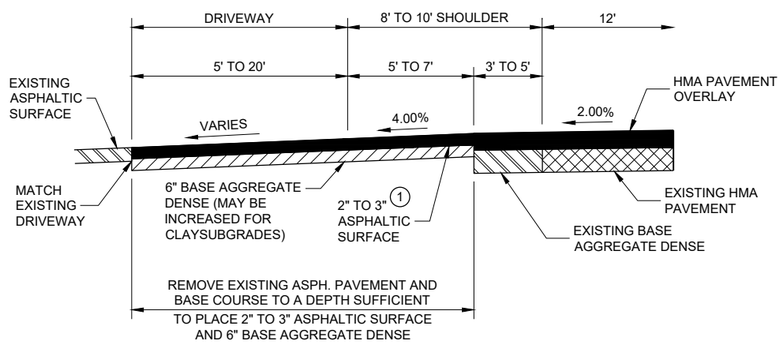
GENERAL NOTES

(1) DESIGN WILL DETERMINE FINAL DRIVEWAY ASPHALTIC THICKNESS BASED ON TYPE OF USAGE AND LOADINGS.



PLAN VIEW

HALF SECTION



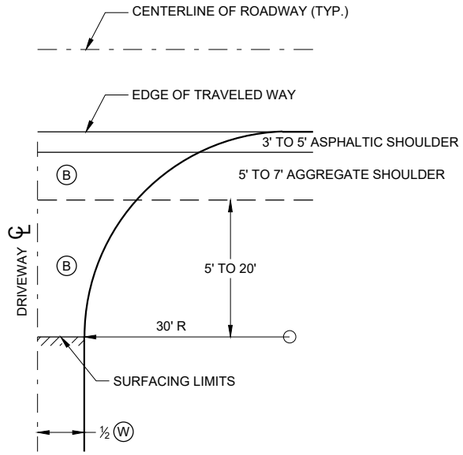
PROFILE VIEW

RURAL ENTRANCE
WITH ASPHALTIC SURFACE
RESURFACING PROJECTS

(A) : PAID FOR AS ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES. (TON)

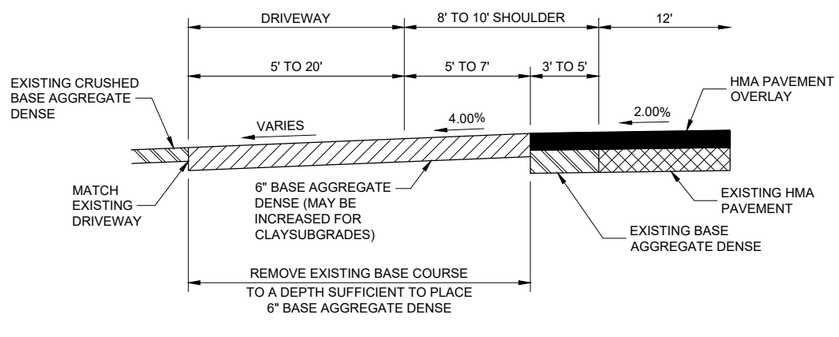
(B) : PAID FOR AS BASE AGGREGATE DENSE 1 ¼" (TON)

(W) : DRIVEWAY WIDTH 16' MIN. - 24' MAX.



PLAN VIEW

HALF SECTION



PROFILE VIEW

RURAL ENTRANCE
WITH AGGREGATE SURFACE
6" BASE AGGREGATE DENSE
RESURFACING PROJECTS

DRIVEWAYS WITHOUT CURB AND GUTTER RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2016
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

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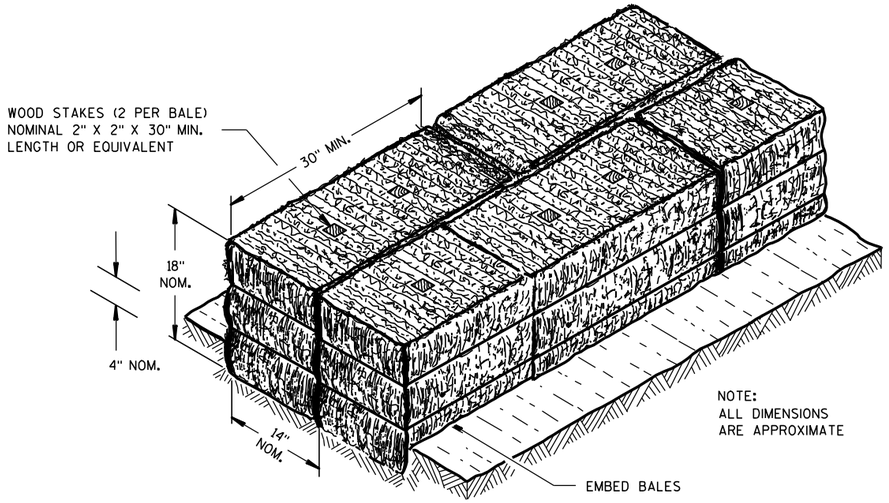
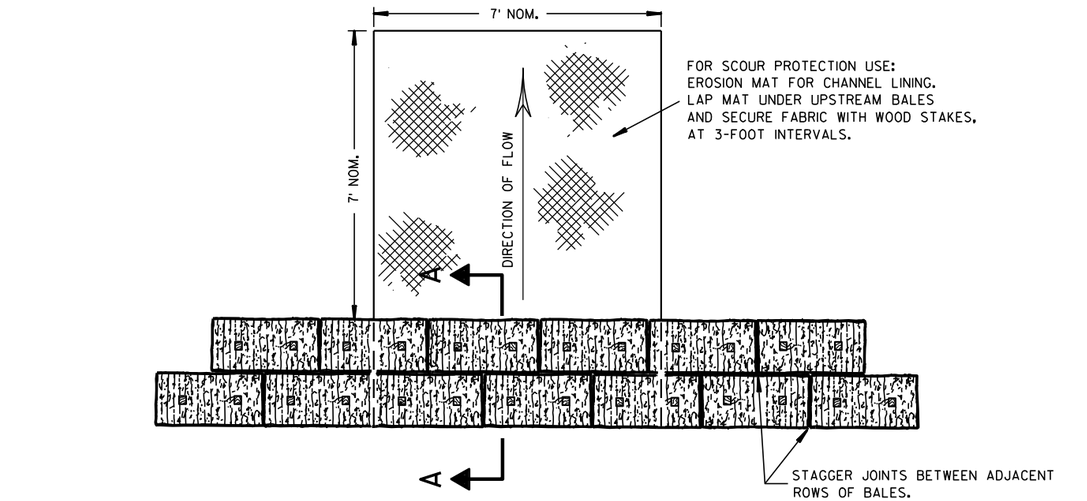
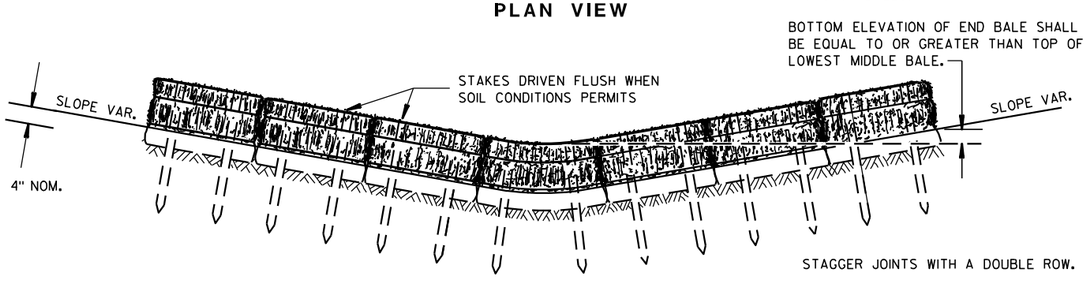
SDD 08D22 - 01



SECTION A-A



PLAN VIEW



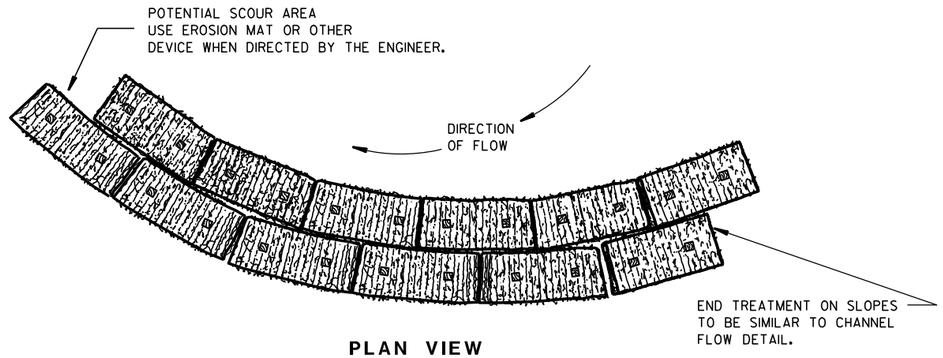
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

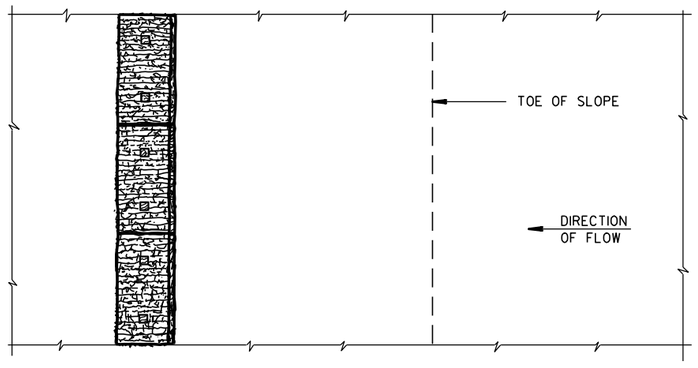
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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.

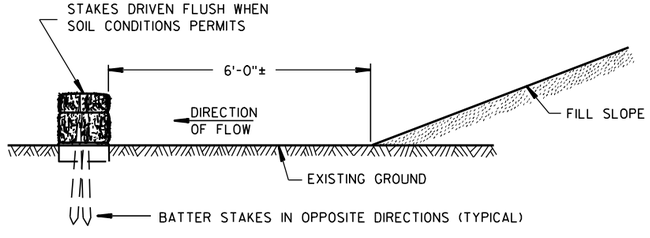


PLAN VIEW

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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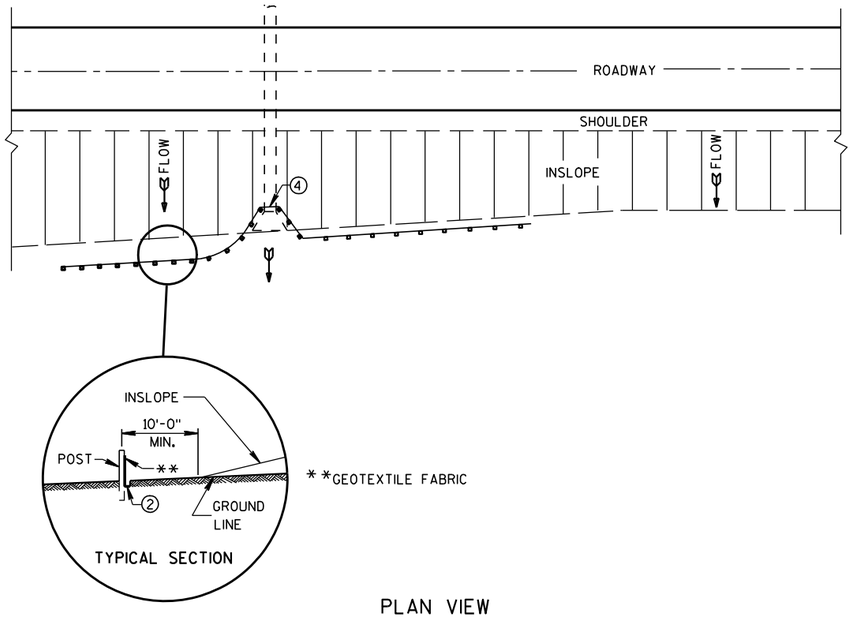
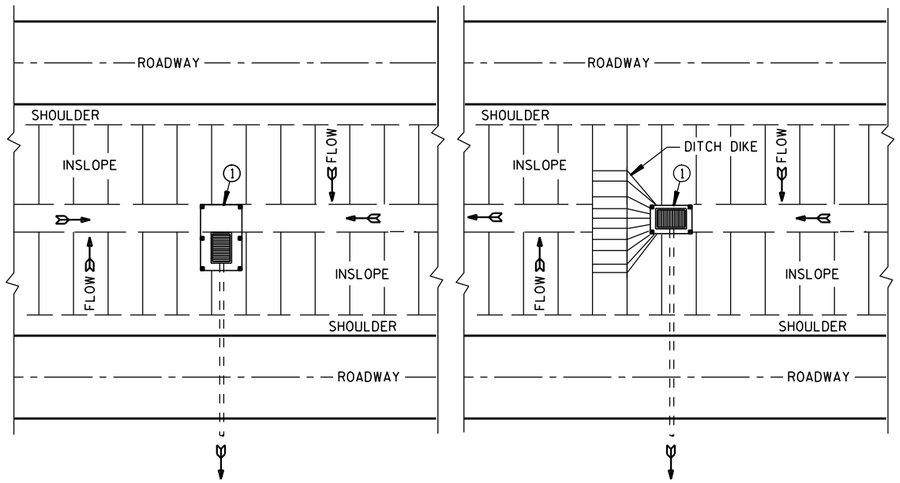
S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



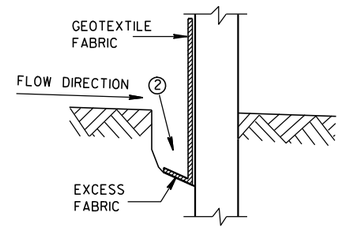
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

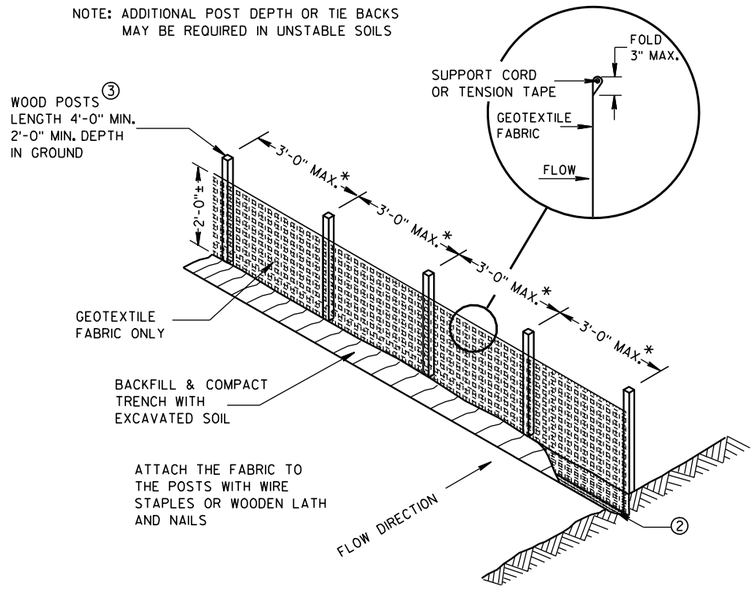
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

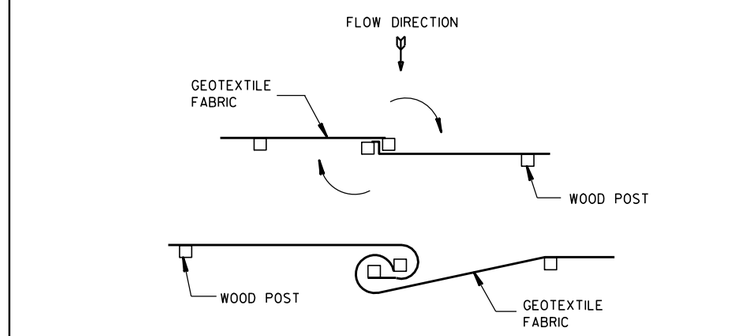
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL 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.



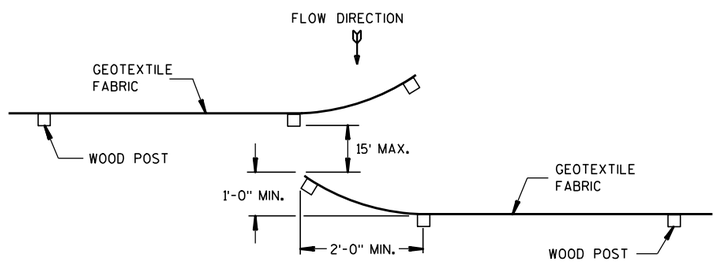
TRENCH DETAIL



SILT FENCE

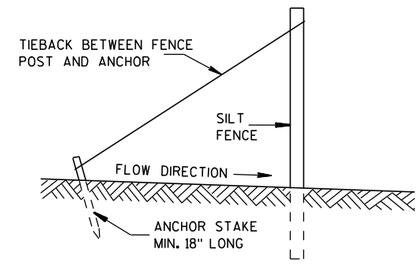


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
4-29-05 DATE	/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	

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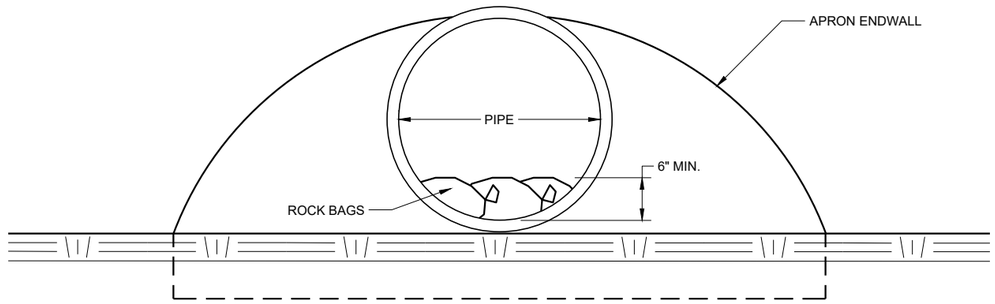
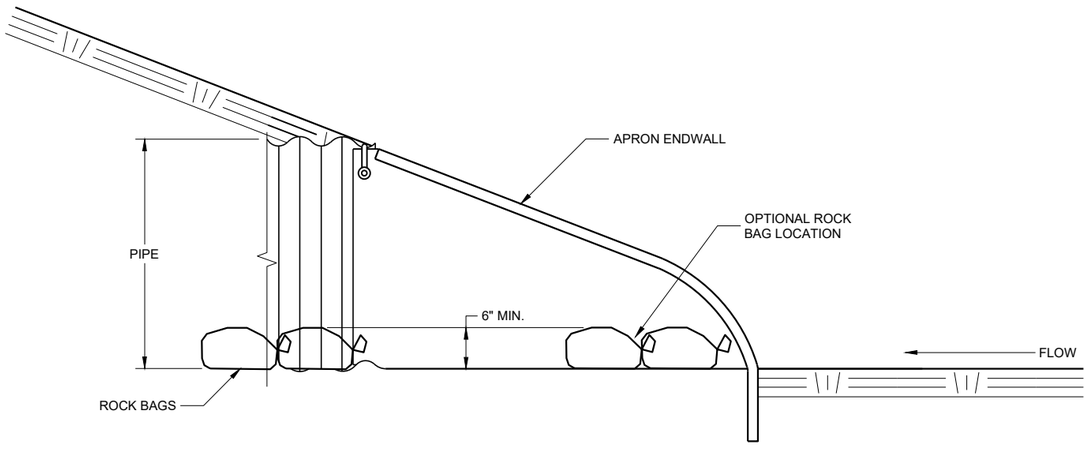
S.D.D. 8 E 9-6



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

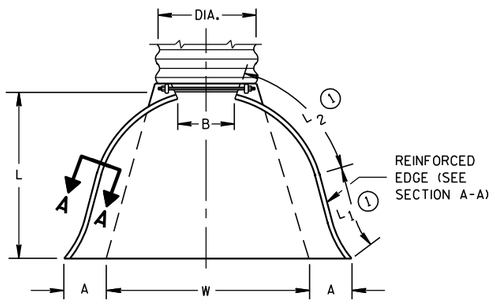
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	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

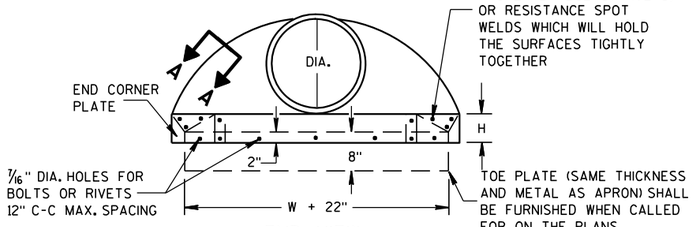
REINFORCED CONCRETE APRON ENDWALLS

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

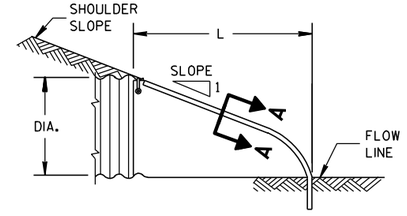
*MINIMUM
**MAXIMUM



PLAN VIEW

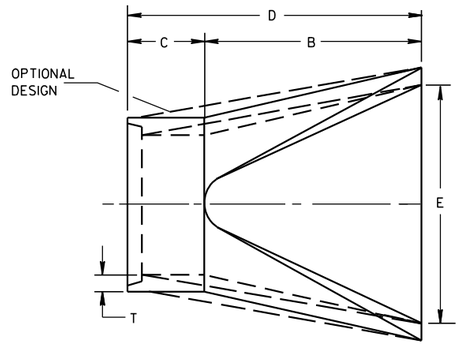


END VIEW

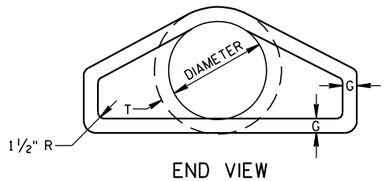


SIDE ELEVATION

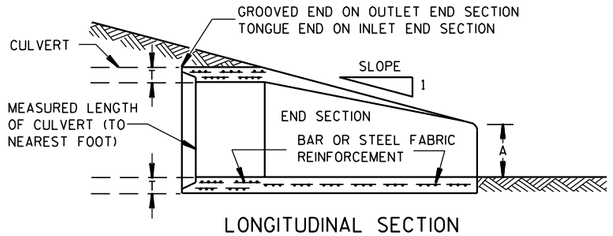
METAL ENDWALLS



PLAN

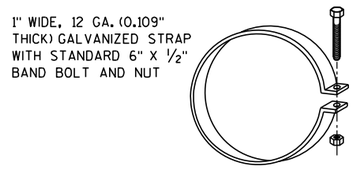


END VIEW



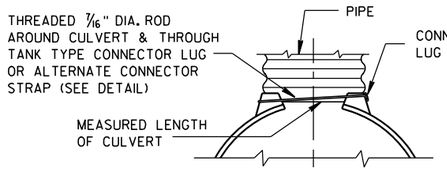
LONGITUDINAL SECTION

CONCRETE ENDWALLS

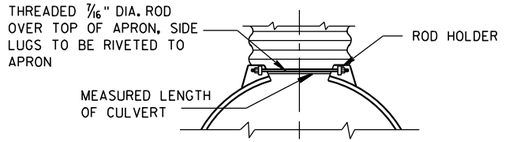


ALTERNATE FOR TYPE 1 CONNECTION

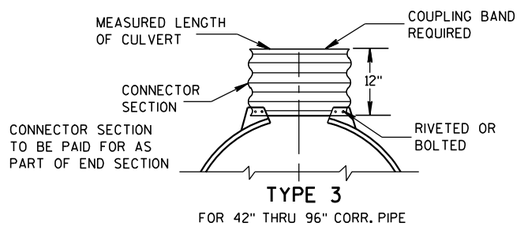
END SECTION CONNECTOR STRAP



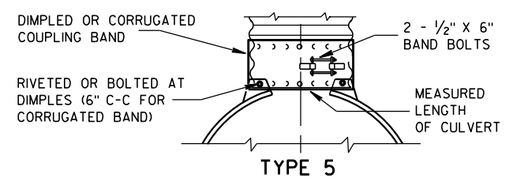
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

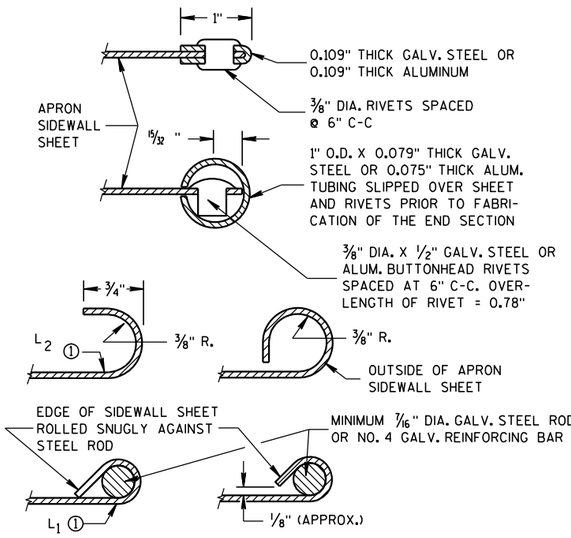
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

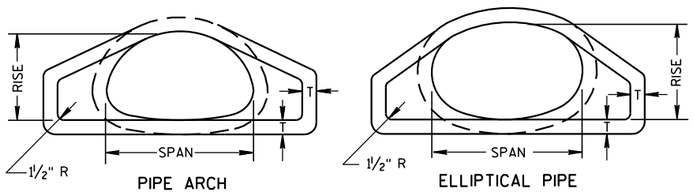
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

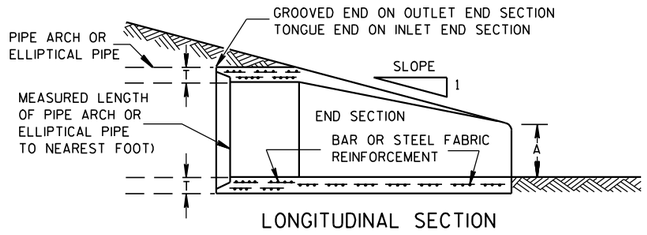
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

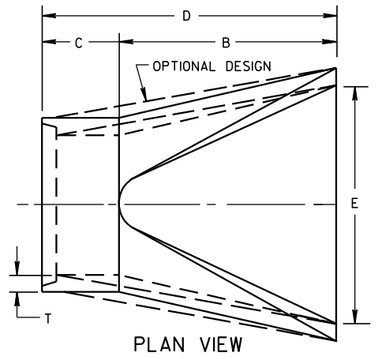
6
S.D.D. 8 F 1-11



END VIEW

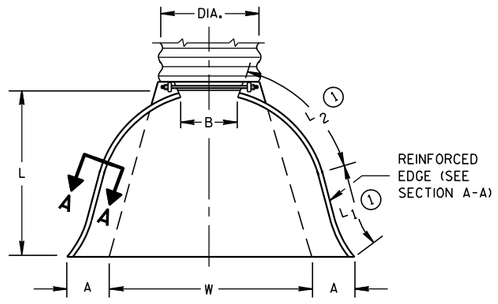


LONGITUDINAL SECTION

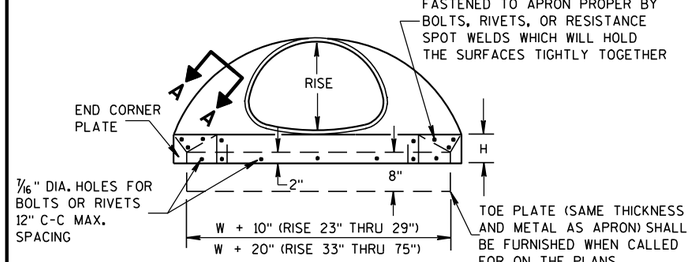


PLAN VIEW

CONCRETE ENDWALLS

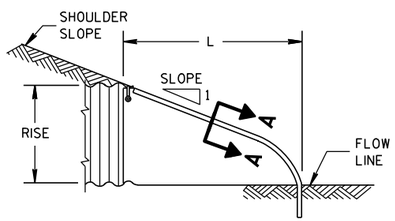


PLAN VIEW



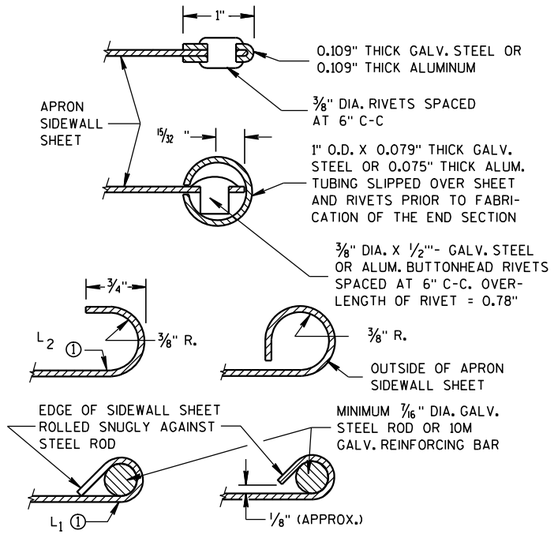
END CORNER PLATES MAY BE FASTENED TO APRON PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER

END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

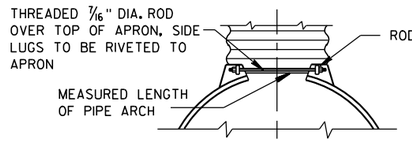
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

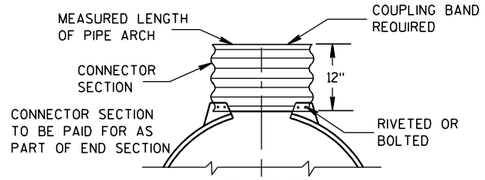
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



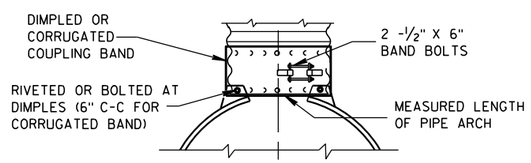
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

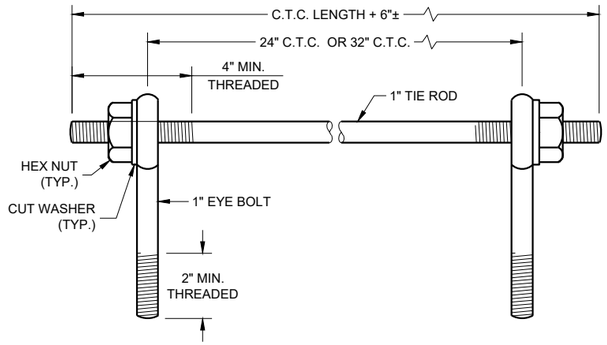
FHWA

6

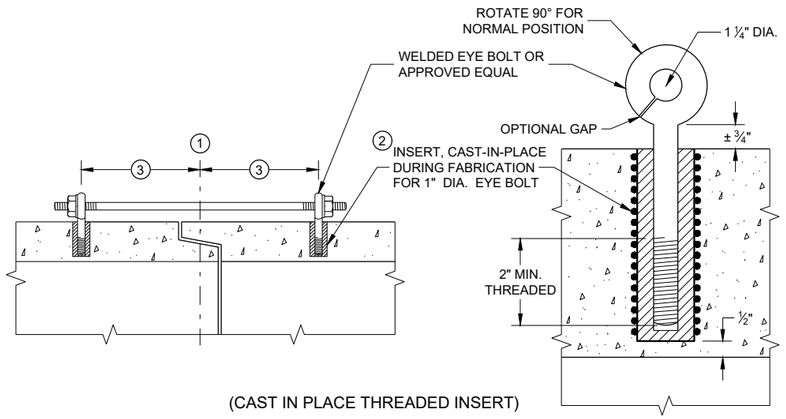
S.D.D. 8 F 2-1

6

S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST IN PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

(1) 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.

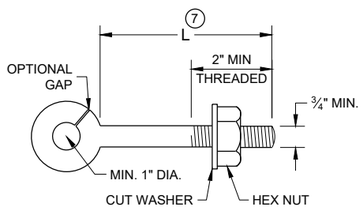
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

(4) BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

(5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.

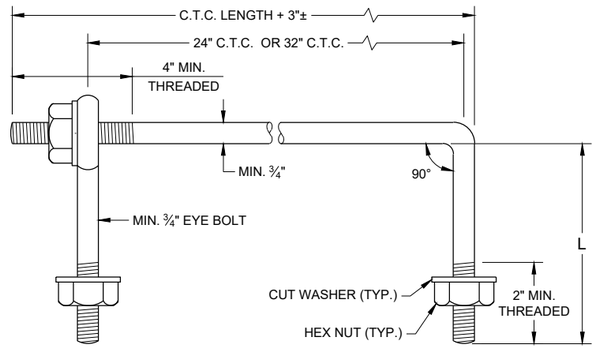
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

(7) EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.

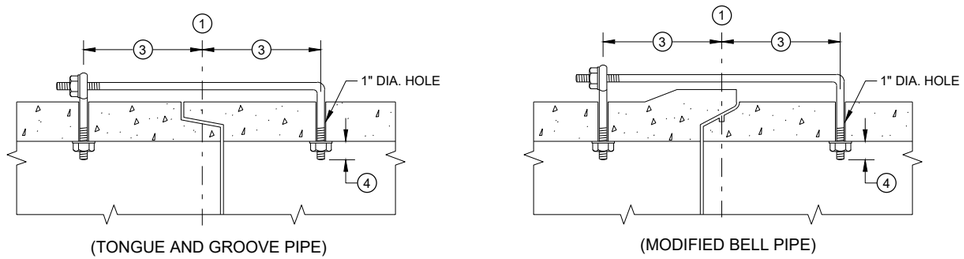


EYE BOLT (7)

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

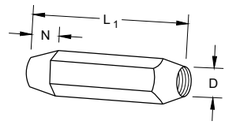
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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



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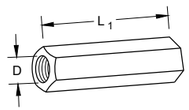
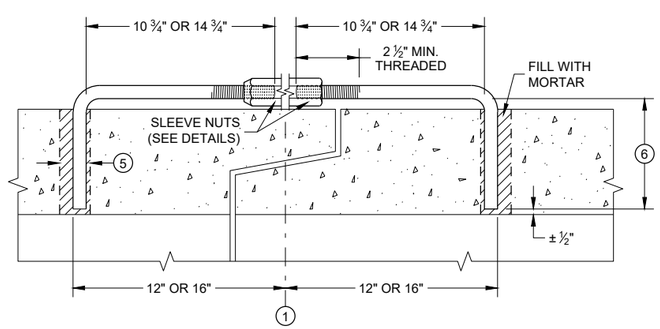


PLAIN

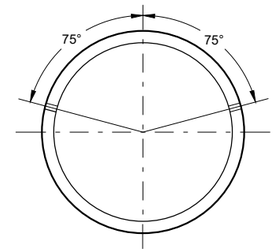
RIGHT AND LEFT THREADS

SLEEVE NUTS



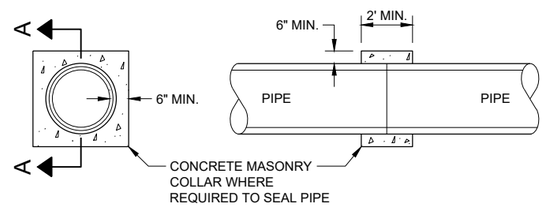
LONGITUDINAL SECTION

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

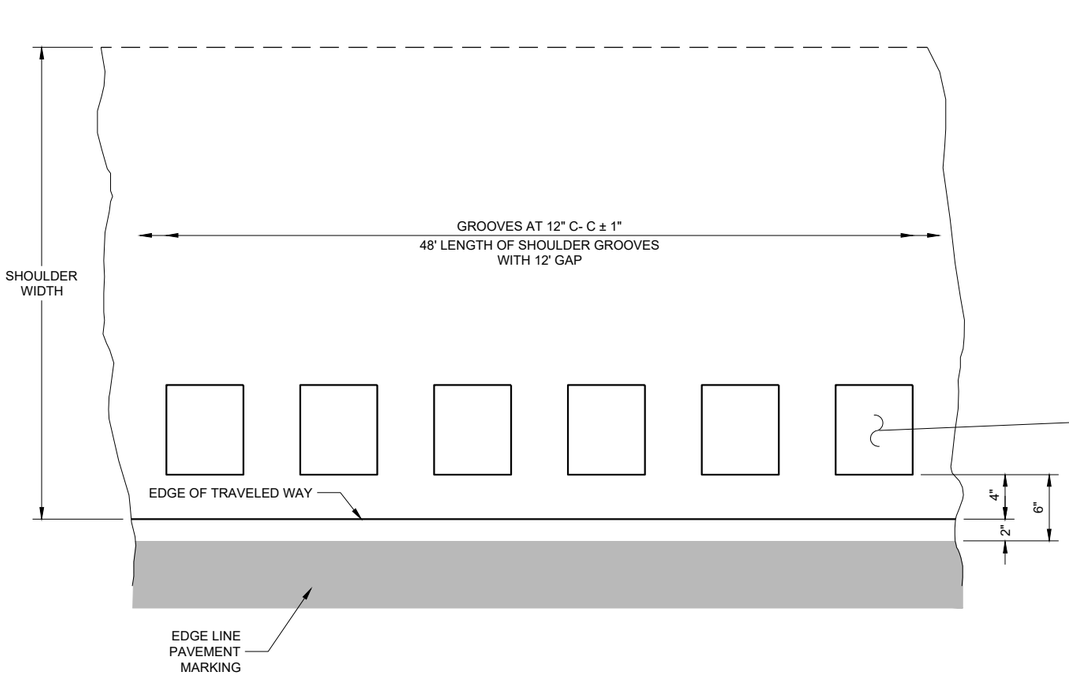
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

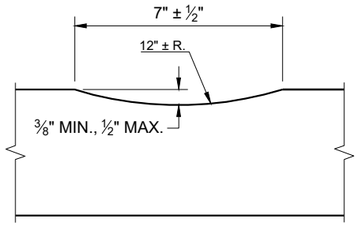
APPROVED
November 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

SDD 08F04 - 08

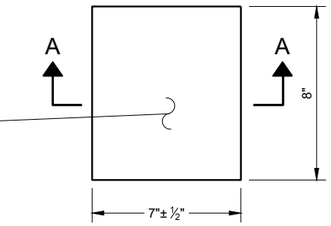
SDD 08F04 - 08



PLAN DETAIL VIEW
SHOULDER WITH GROOVES



SECTION A - A

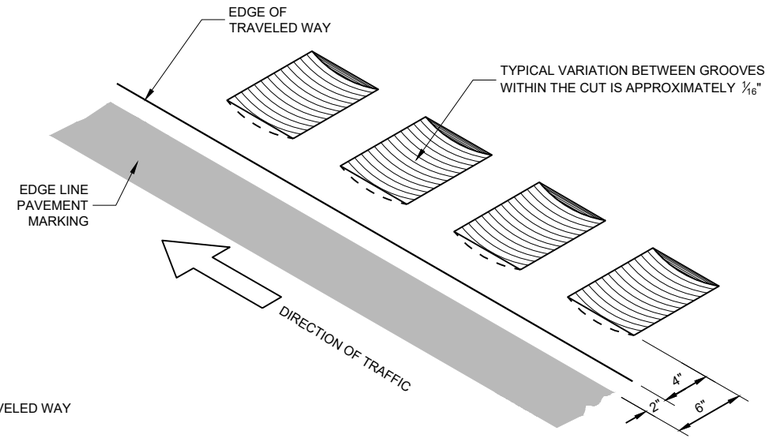


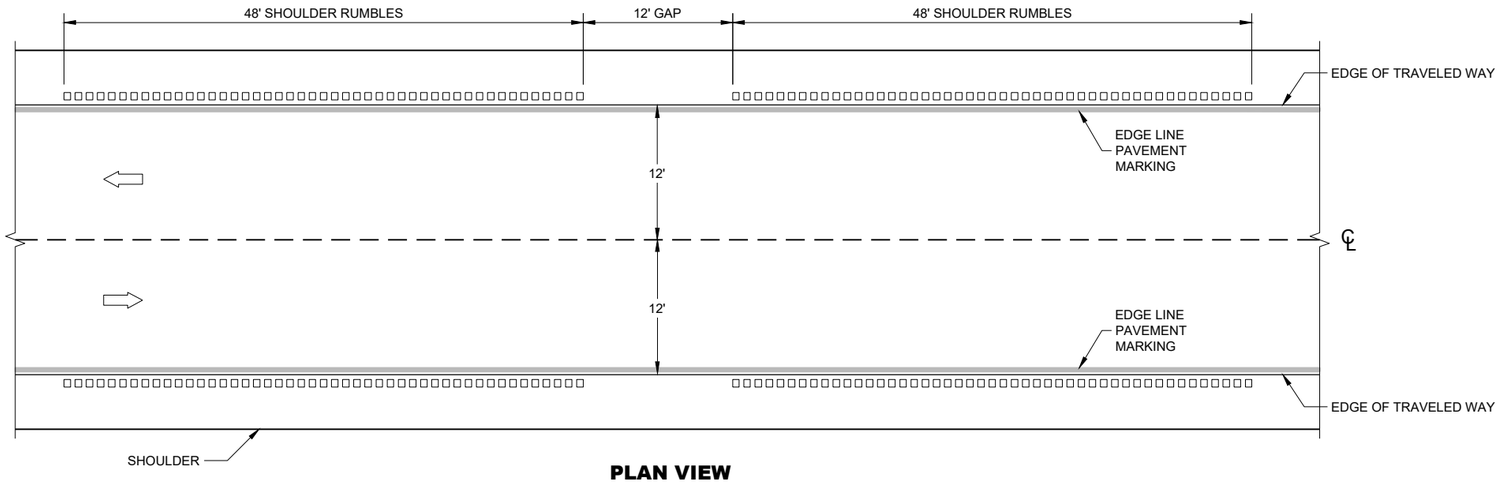
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

DO NOT MILL SHOULDER GROOVES THROUGH INTERSECTIONS, MARKED CROSSWALKS, NON-MOTORIZED PATH CROSSINGS, ETC. REFER TO SDD 13A10 SHEETS "g" AND "h".

SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.





PLAN VIEW

SHOULDER RUMBLE STRIPS - ASPHALT

6

SDD 13A10 - 03a

SHOULDER RUMBLE STRIPS ASPHALT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

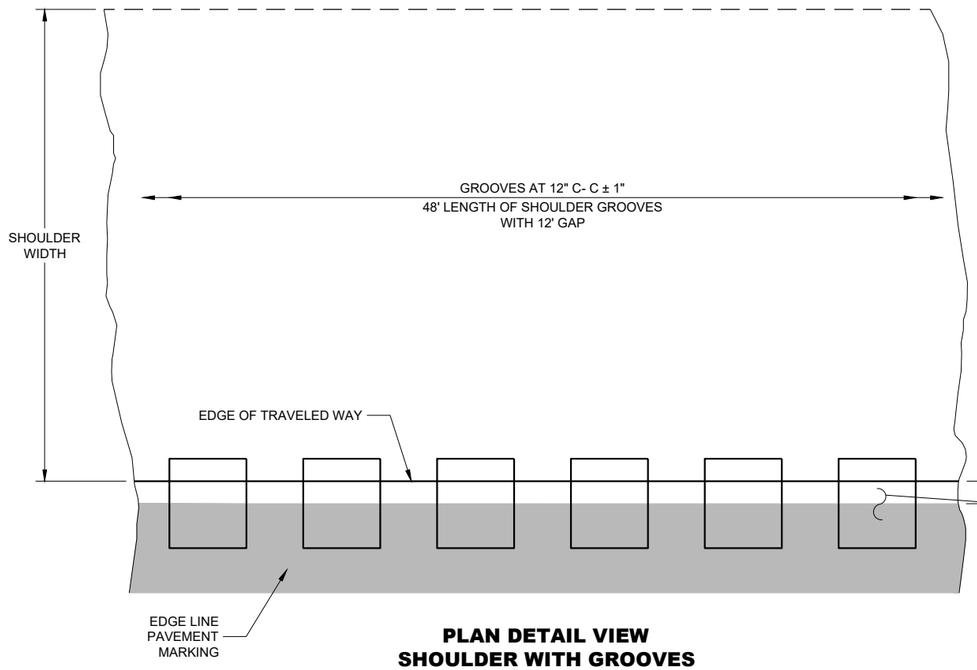
6

SDD 13A10 - 03a

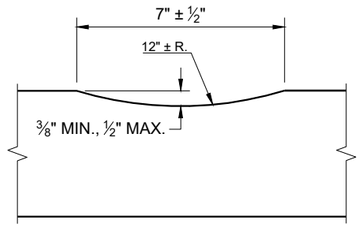
GENERAL NOTES

DO NOT MILL SHOULDER GROOVES THROUGH INTERSECTIONS, MARKED CROSSWALKS, NON-MOTORIZED PATH CROSSINGS, ETC. REFER TO SDD 13A10 SHEETS "g" AND "h".

SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.

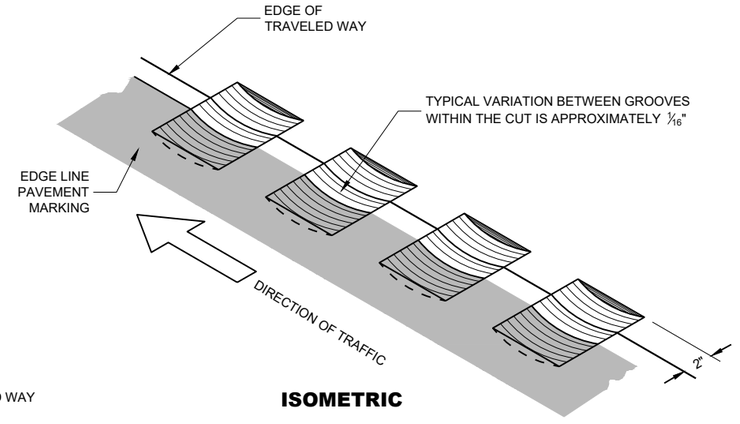


PLAN DETAIL VIEW
SHOULDER WITH GROOVES



SECTION A - A

PLAN VIEW
(SINGLE GROOVE)



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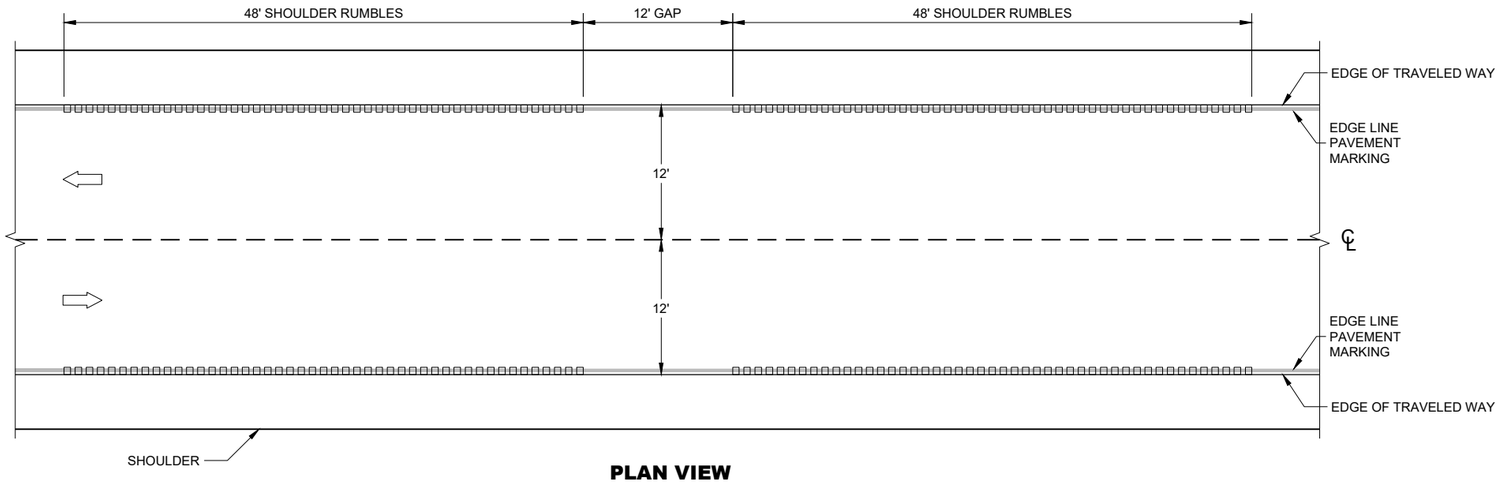


PLAN VIEW

EDGE LINE RUMBLE STRIPS - ASPHALT

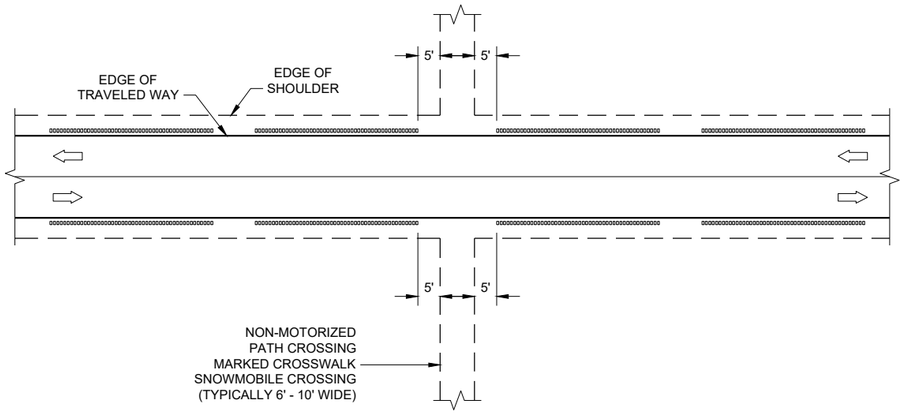
6

SDD 13A10 - 03e

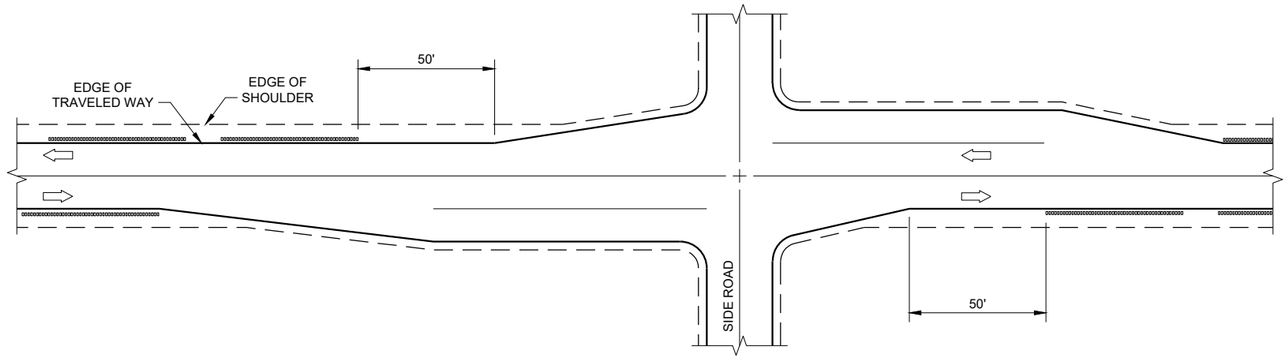
6

SDD13A10 - 03e

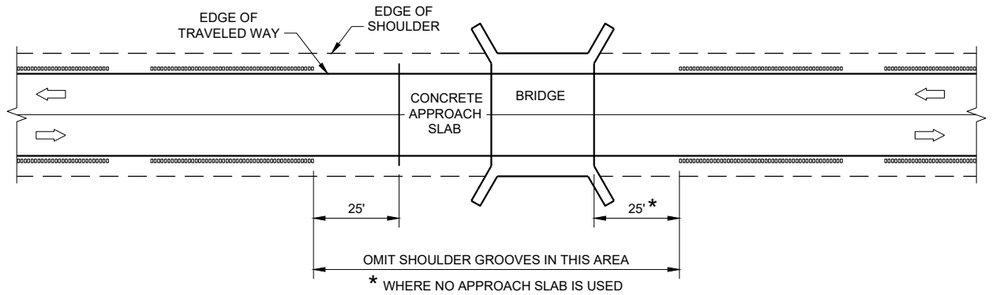
EDGE LINE RUMBLE STRIPS - ASPHALT



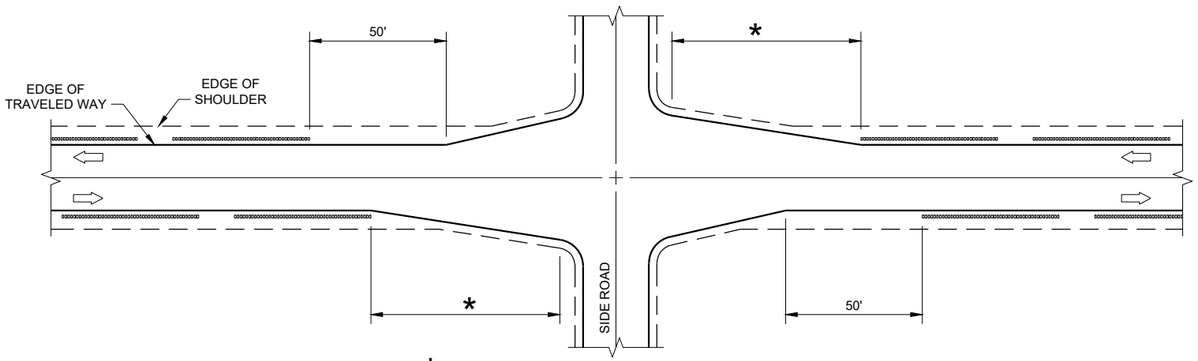
GROOVES AT MISCELLANEOUS CROSSINGS



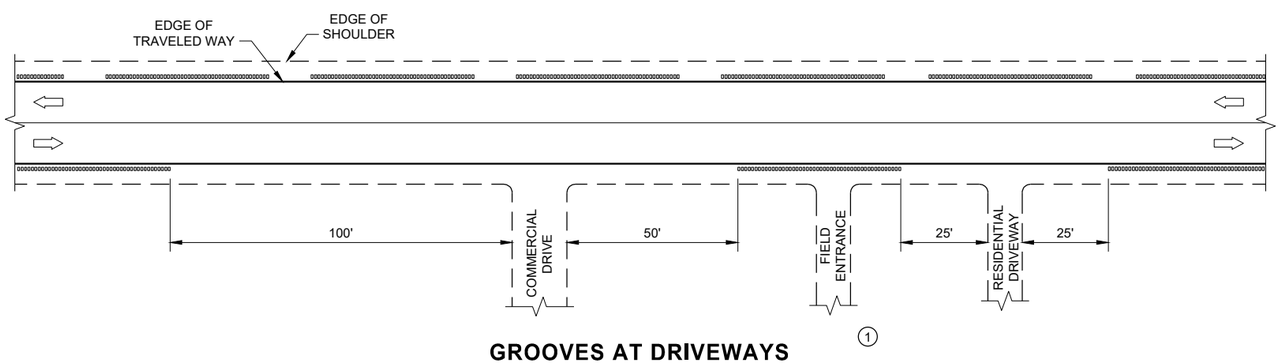
GROOVES AT RIGHT TURN LANE



GROOVES AT BRIDGES



GROOVES AT INTERSECTIONS WITH APPROACH TAPER



GROOVES AT DRIVEWAYS ①

GENERAL NOTES

① SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS. WHEN DIRECTED BY THE ENGINEER.

SHOULDER AND EDGE LINE RUMBLE STRIPS CROSSINGS, INTERSECTIONS, BRIDGES, DRIVEWAYS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

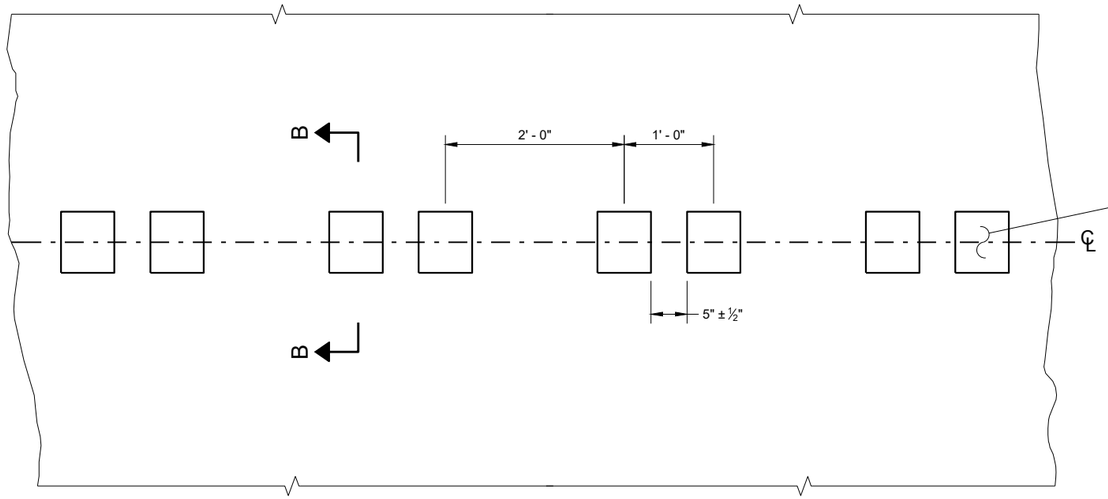
6

SDD 13A10 - 03g
SDD 13A10 - 03g

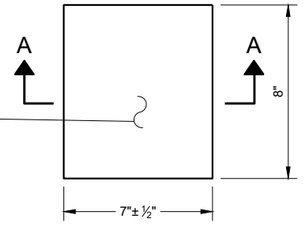
GENERAL NOTES

DO NOT MILL SHOULDER GROOVES THROUGH INTERSECTIONS, MARKED CROSSWALKS, NON-MOTORIZED PATH CROSSINGS, ETC. REFER TO SDD 13A11 SHEETS "d" AND "e".

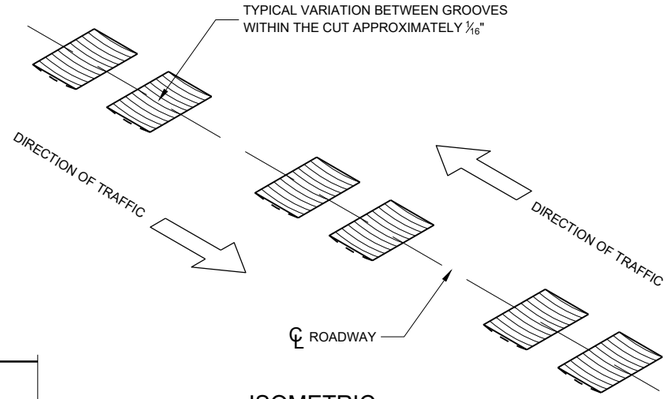
CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS WHEN DIRECTED BY THE ENGINEER.



PLAN DETAIL VIEW



PLAN VIEW
(SINGLE GROOVE)



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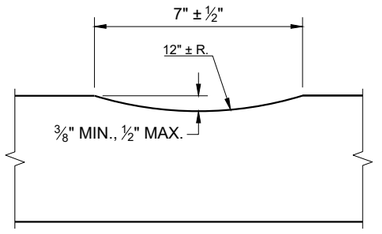
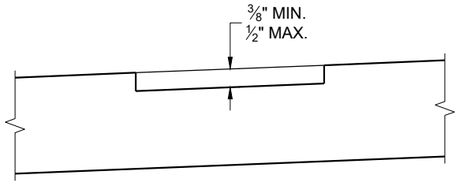
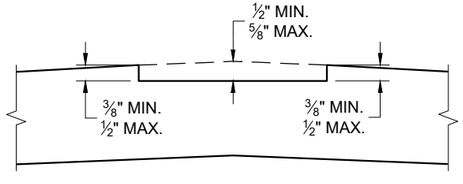


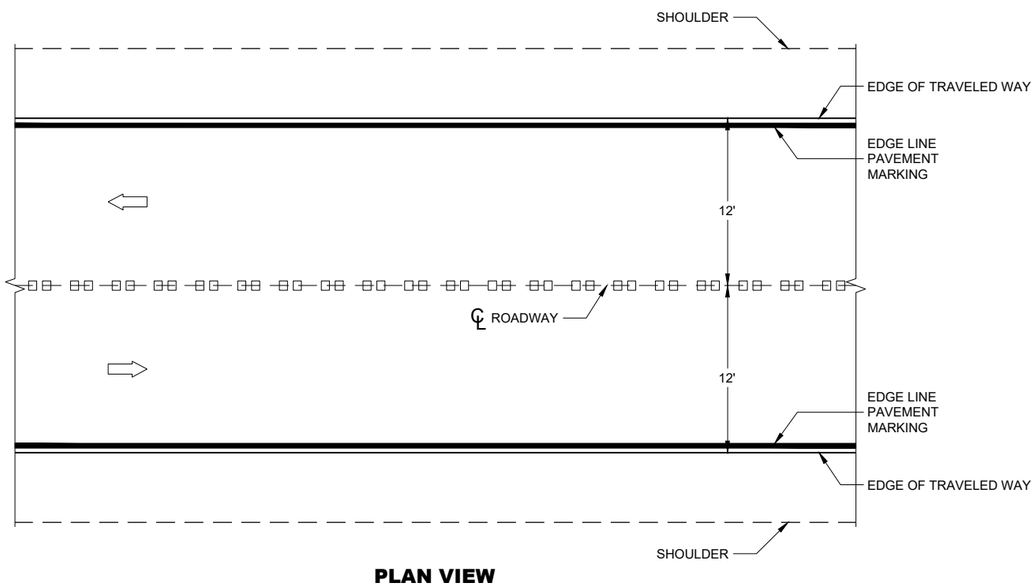
SECTION A - A



SECTION B - B
SUPERELEVATED ROADWAY



SECTION B - B
CROWNED ROADWAY



PLAN VIEW

CENTERLINE RUMBLE STRIPS - ASPHALT

6

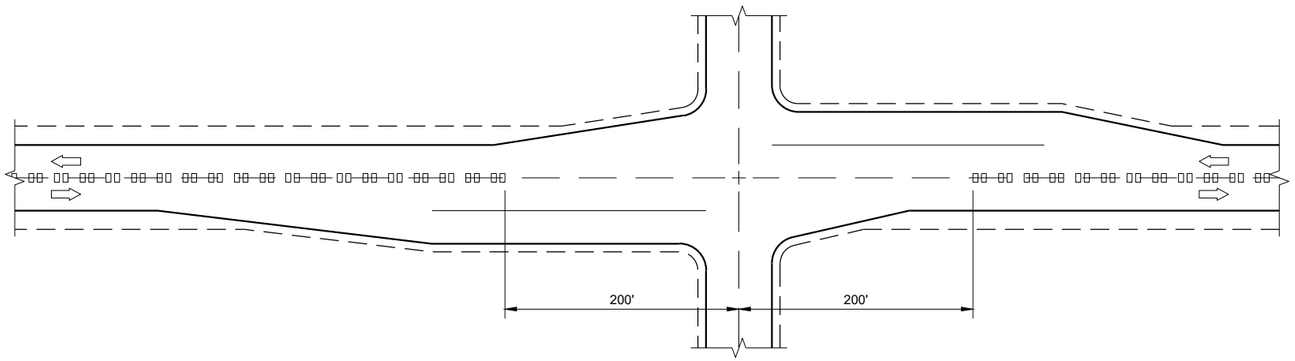
SDD 13A11 - 04a

CENTERLINE RUMBLE STRIPS - ASPHALT

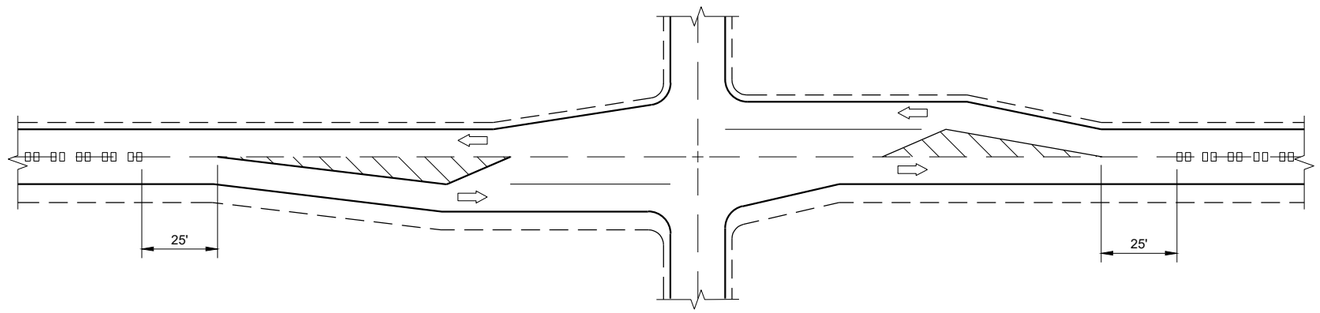
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTAT 56

6

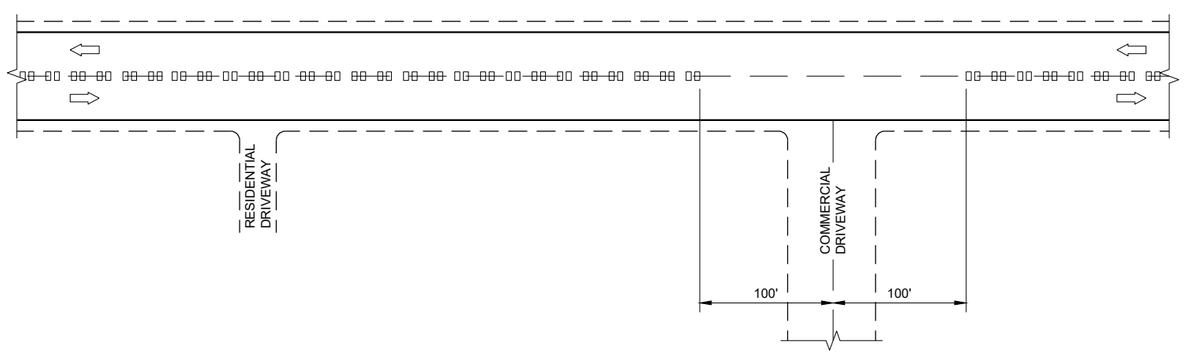
SDD13A11 - 04a



CENTERLINE GROOVES AT INTERSECTIONS



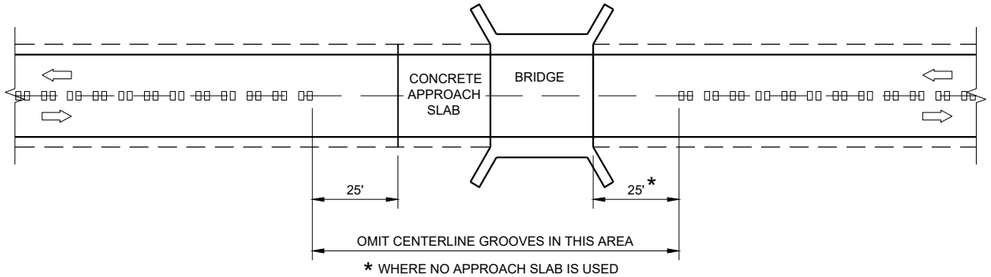
CENTERLINE GROOVES AT INTERSECTIONS (WITH LEFT TURN LANES)



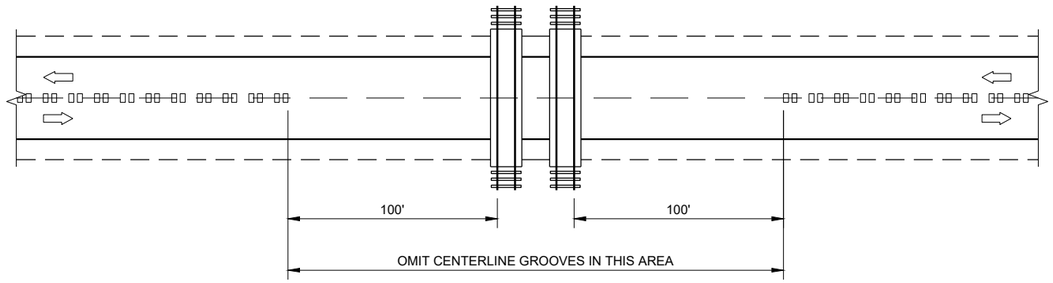
CENTERLINE GROOVES AT DRIVEWAYS (1)

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

CENTER LINE RUMBLE STRIPS - INTERSECTIONS, DRIVEWAYS, BRIDGES, RAIL ROADS

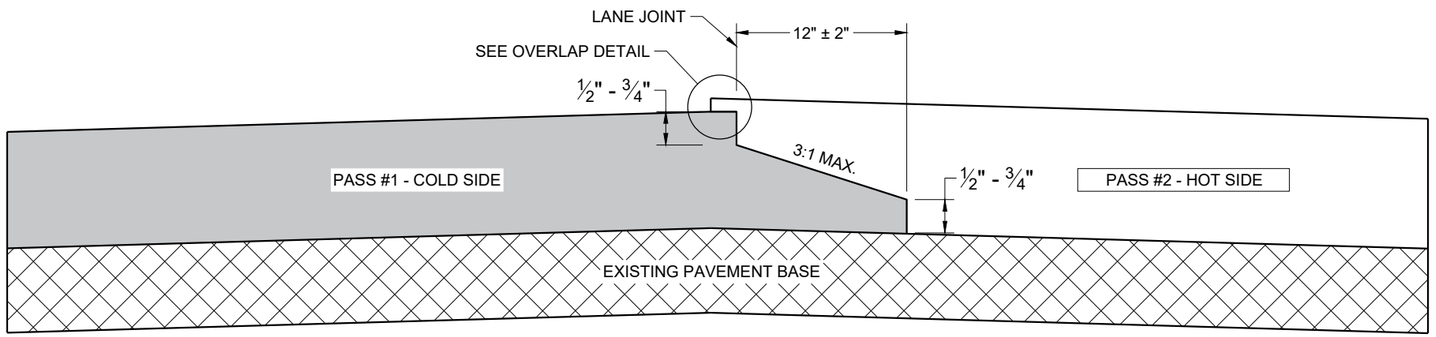
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ John Jenkins — ROADWAY STANDARDS DEVE ENGINEER

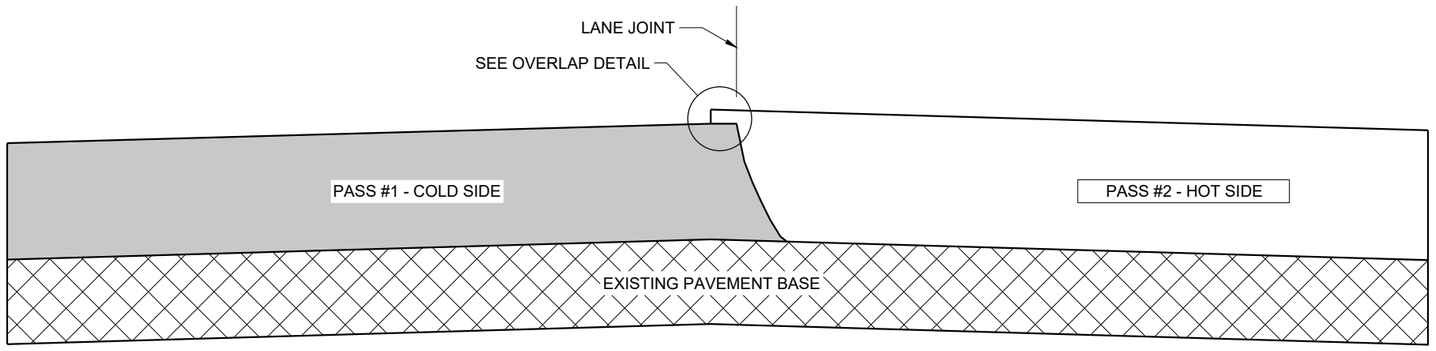
FHWA

6

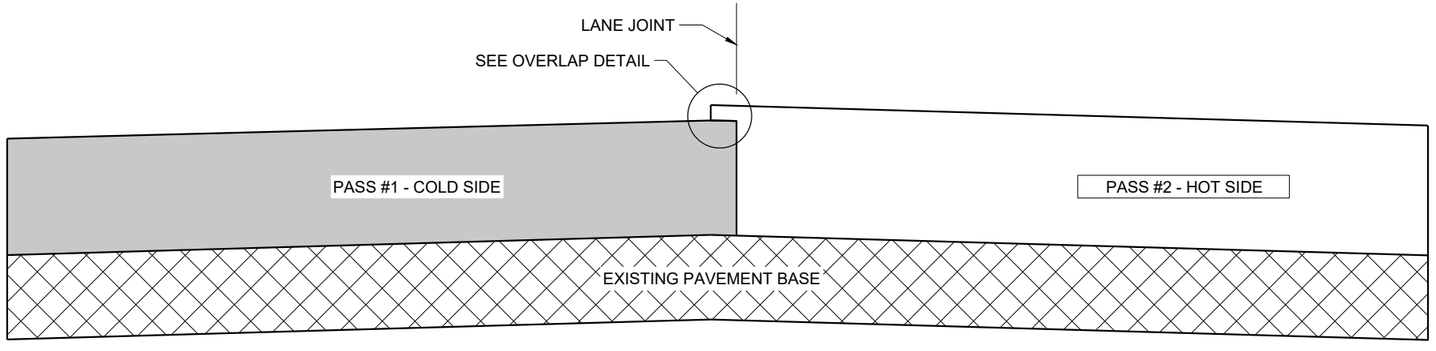
SDD 13A11 - 04d



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

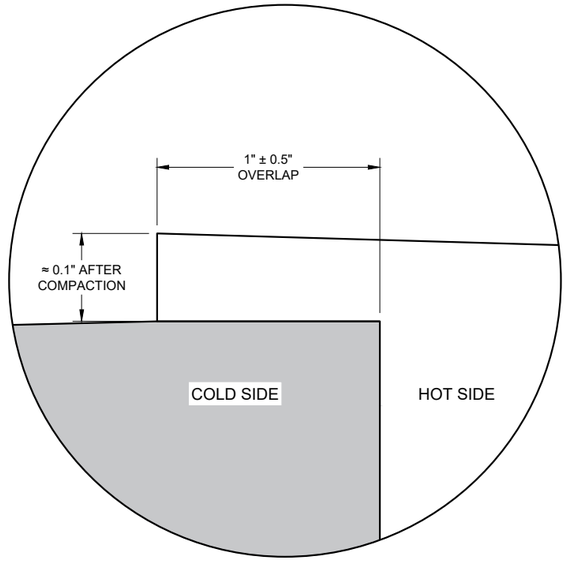
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

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

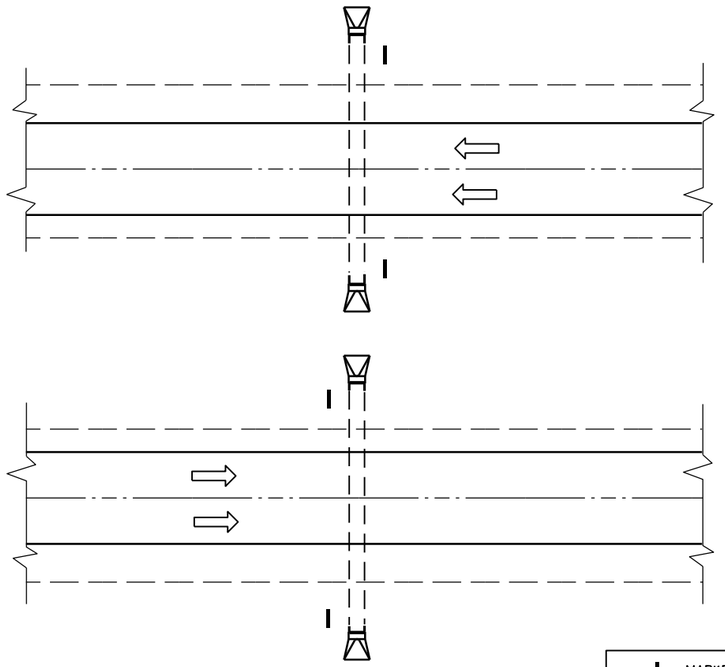
HMA LONGITUDINAL JOINTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

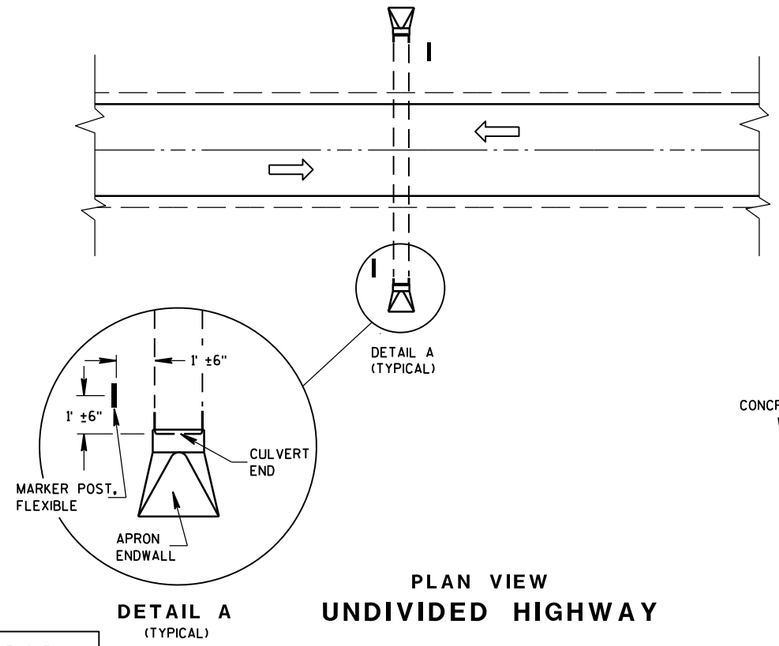
/S/ Steven Hefel
HMA PAVEMENT ENGIN

FHWA



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

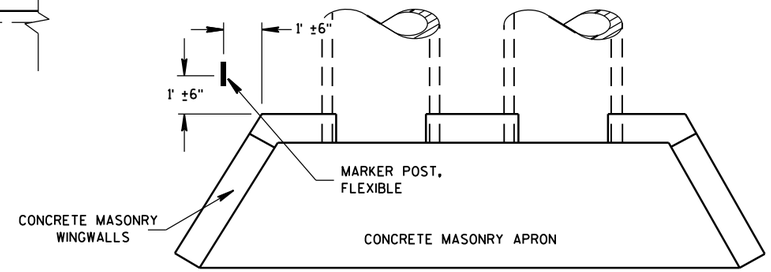
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

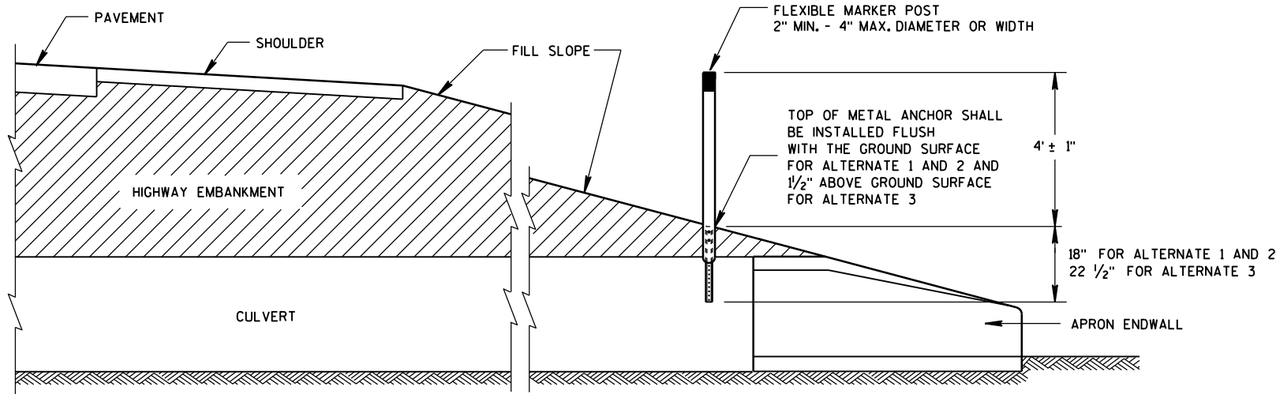
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



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

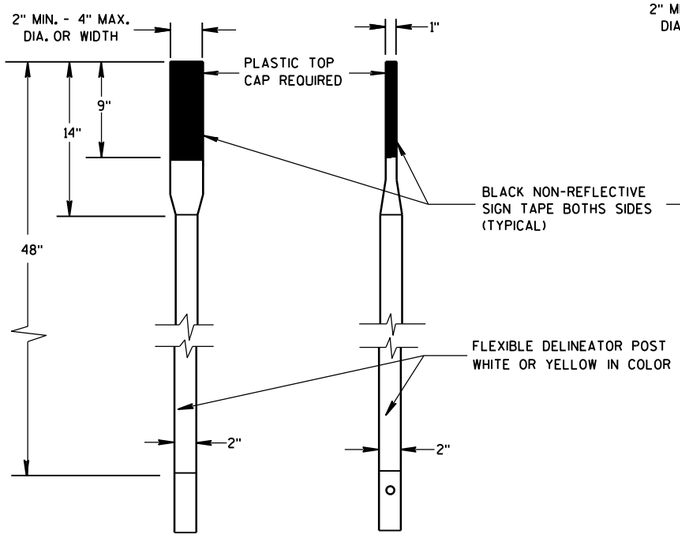
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

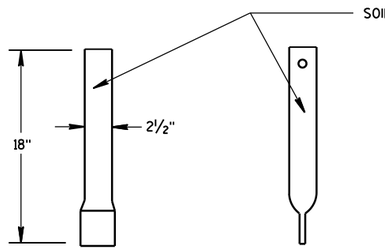
6

S.D.D. 15 A 3-2a

6

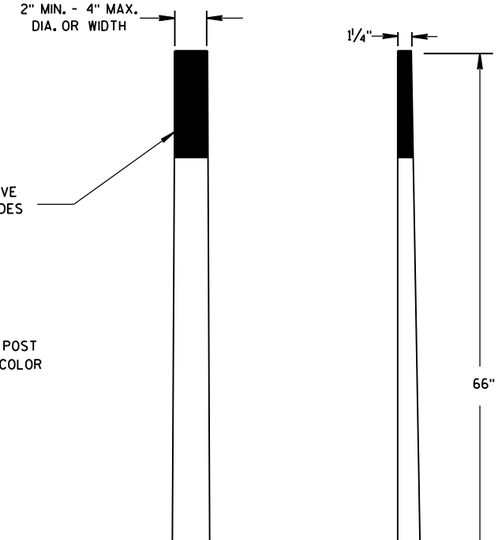
S.D.D. 15 A 3-2a





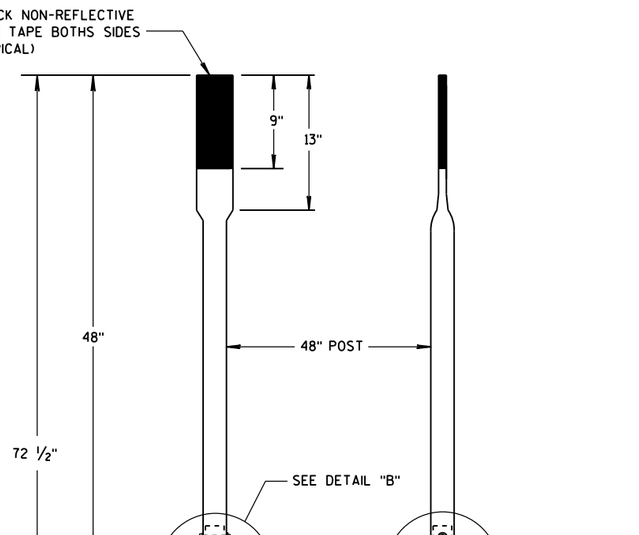
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

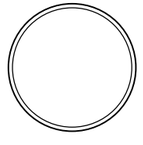
ALTERNATE 2



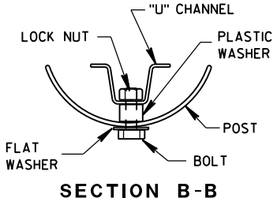
FRONT VIEW SIDE VIEW

ALTERNATE 3

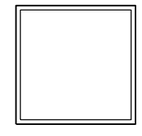
FLEXIBLE MARKER POSTS



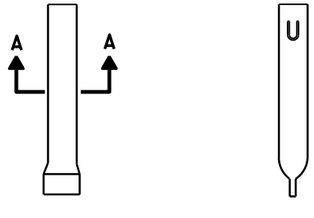
SECTION A-A



SECTION B-B

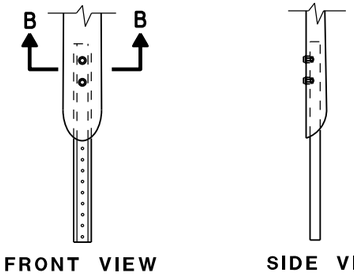


SECTION C-C



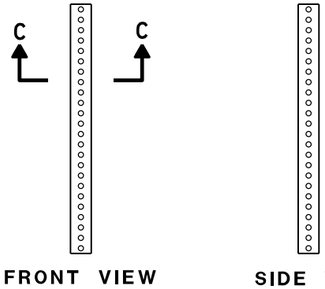
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

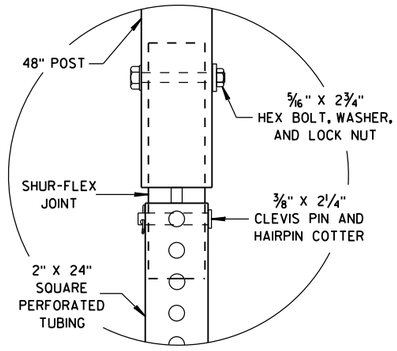
ALTERNATE 2



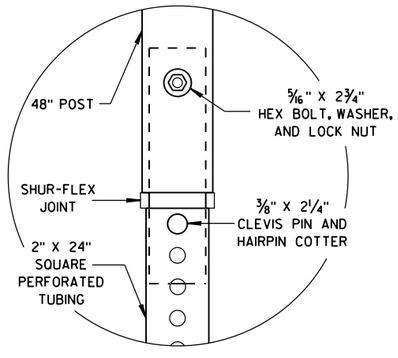
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



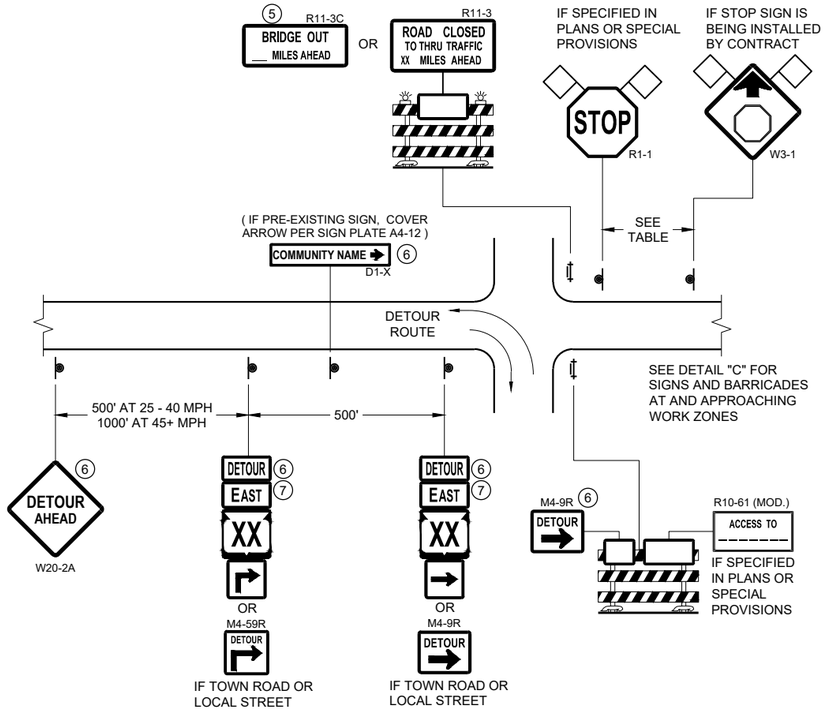
DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

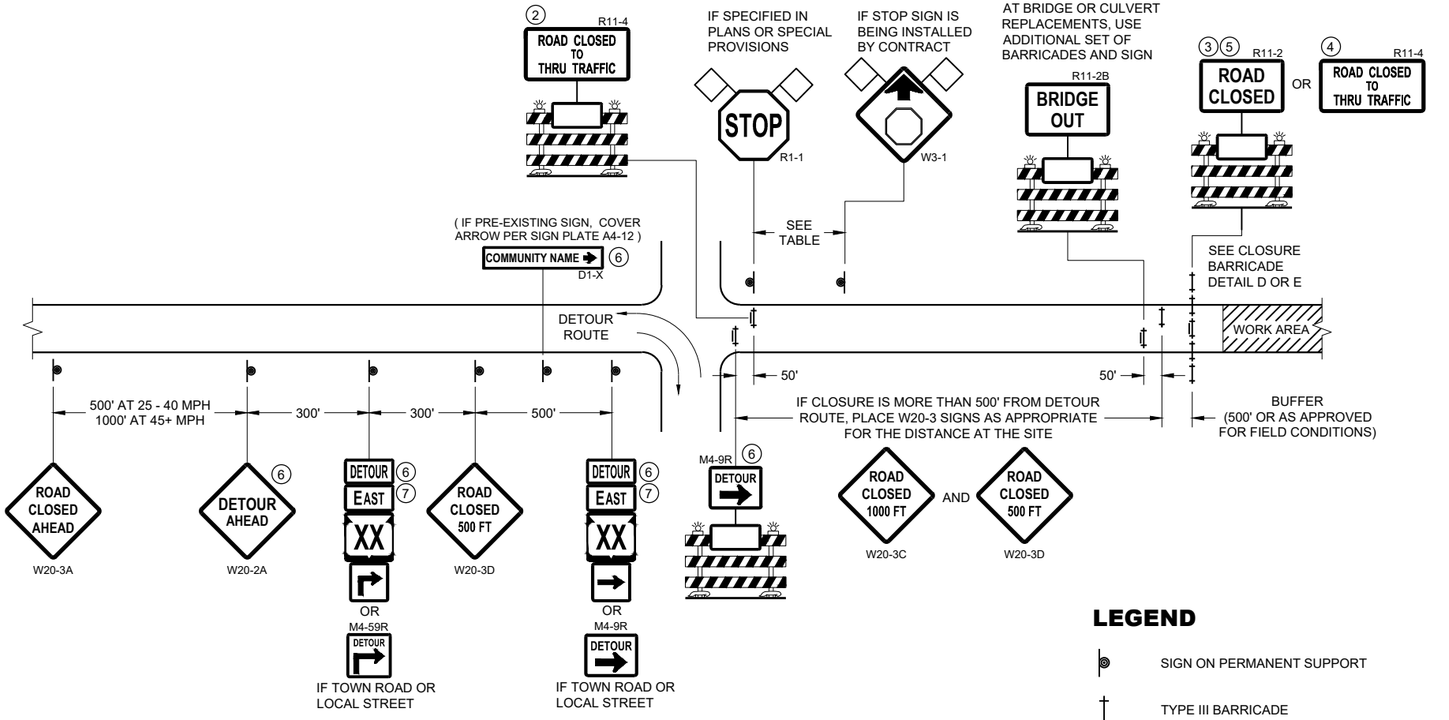
APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6
S.D.D. 15 A 3-2b



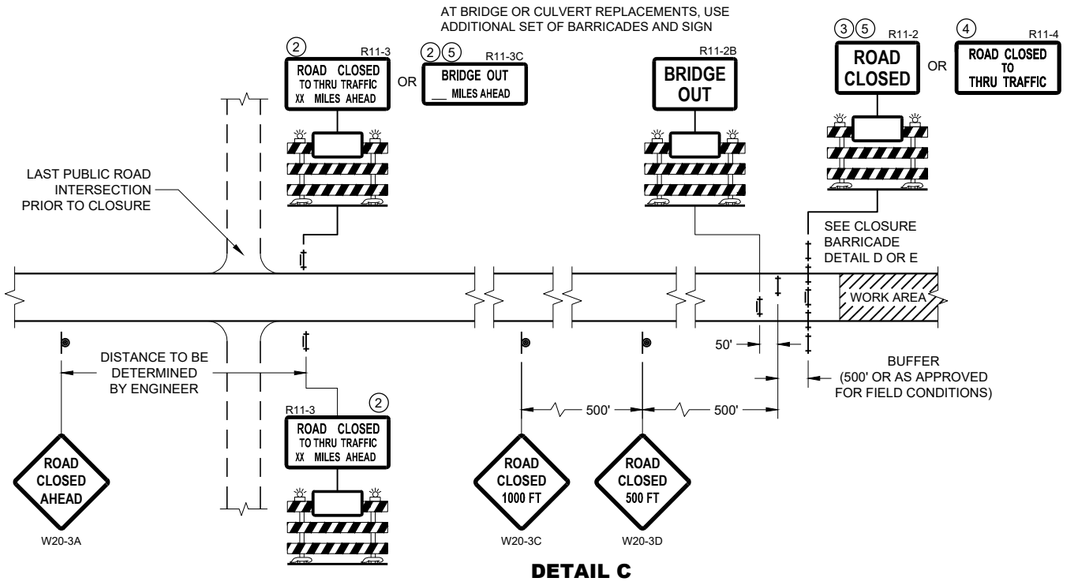
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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

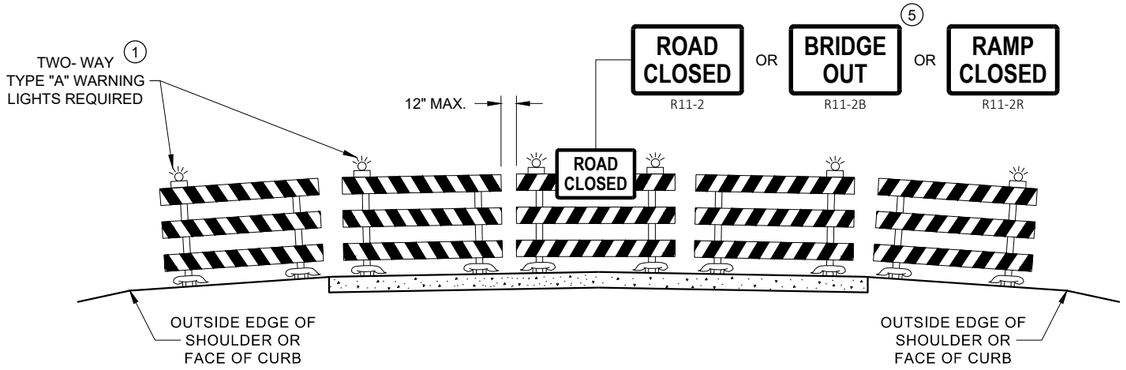
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

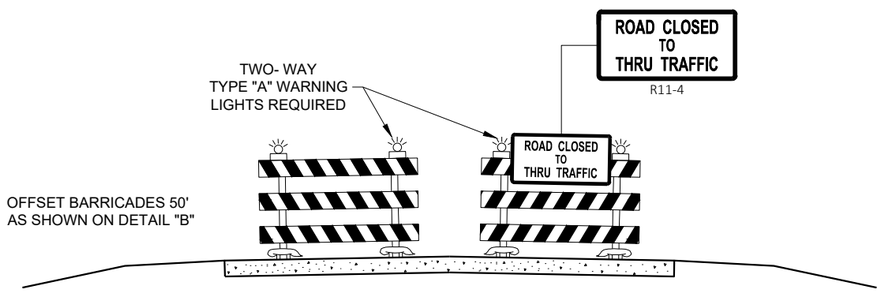
APPROVED
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

SDD 15C02 - 09a



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
May 2023
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE
FHWA

6

SDD 15C02 - 09b

6

SDD 15C02 - 09b

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.

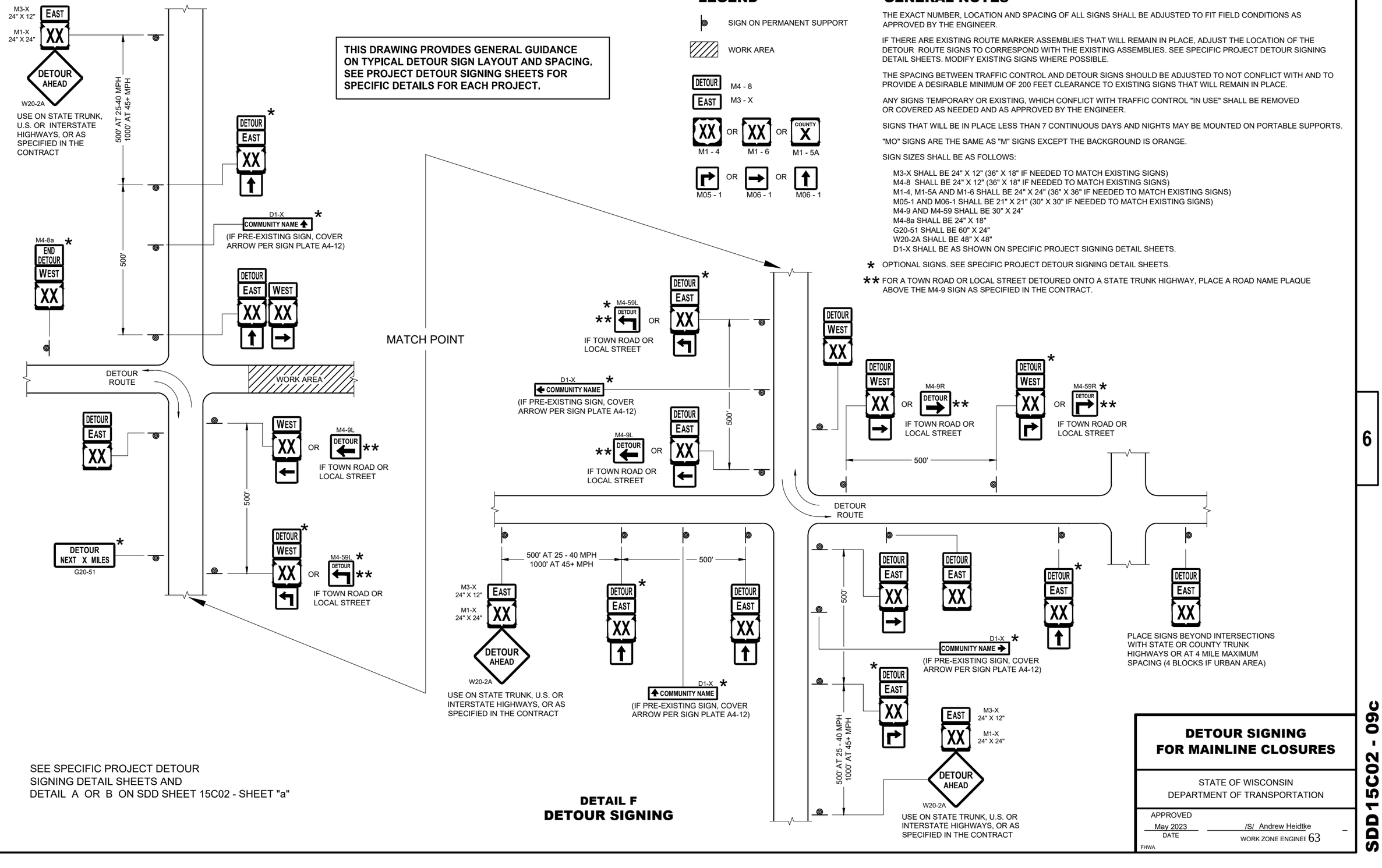
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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.



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
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

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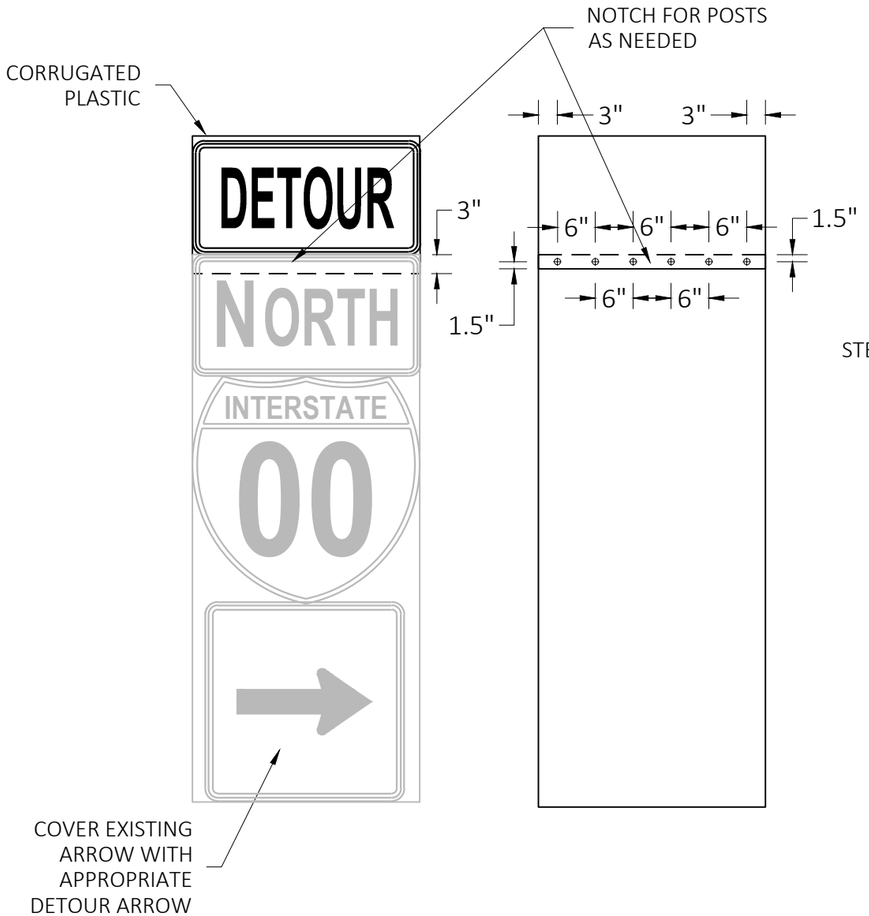
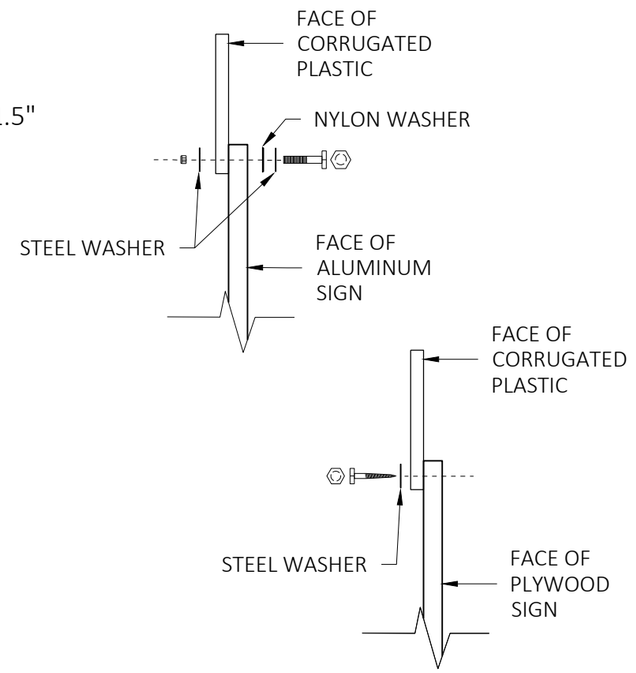
SDD 15C02 - 09c

FRONT SIDE

BACK SIDE

SIDE VIEW





GENERAL NOTES

CELLS OF CORRUGATED PLASTIC SHALL BE VERTICALLY ORIENTED.

PROVIDE A 0.4-INCH THICK BASE CORRUGATED PLASTIC WITH A 0.035-INCH WALL THICKNESS AND 0.4-INCH CELL SIZE.

FOR 36" WIDE SIGNS: USE 6 FASTENERS AS SHOWN.

FOR 24" WIDE SIGNS: USE 4 FASTENERS WITH EDGE SPACING AS SHOWN AND 6" SPACING BETWEEN FASTENERS.

METAL WASHERS, NUTS, BOLTS AND LAGS 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, SC3

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.

PLYWOOD SIGNS:
LAG SCREWS - 5/16" x 1"
ALUMINUM SIGNS:
MACHINE BOLTS - 5/16" x 1-1/4" LENGTH W/NUTS
WASHERS:
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

MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING

MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Andrew Heidtke — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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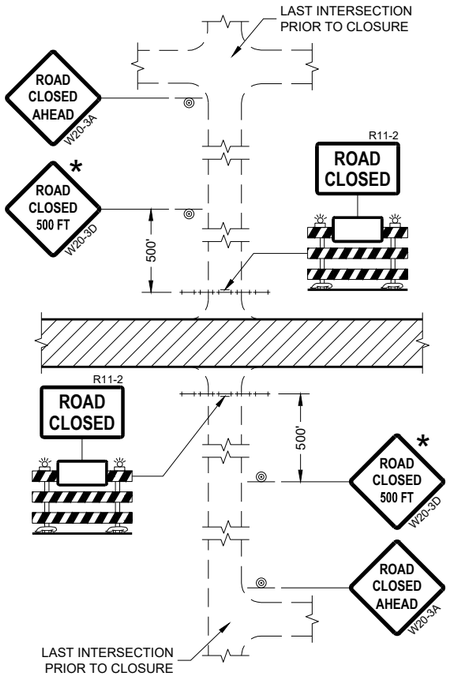
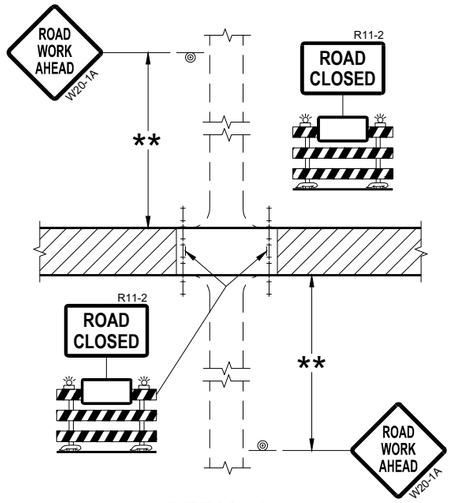
SDD 15C02-09h



DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO 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.

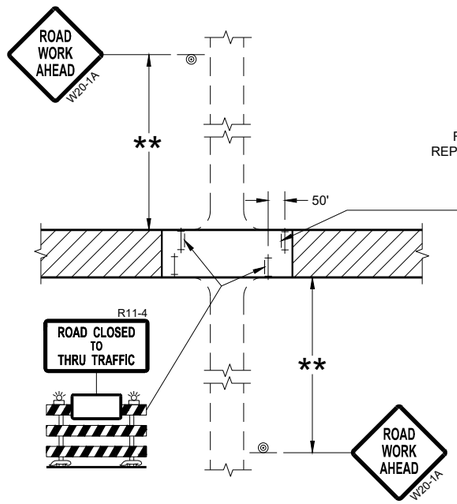
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

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.

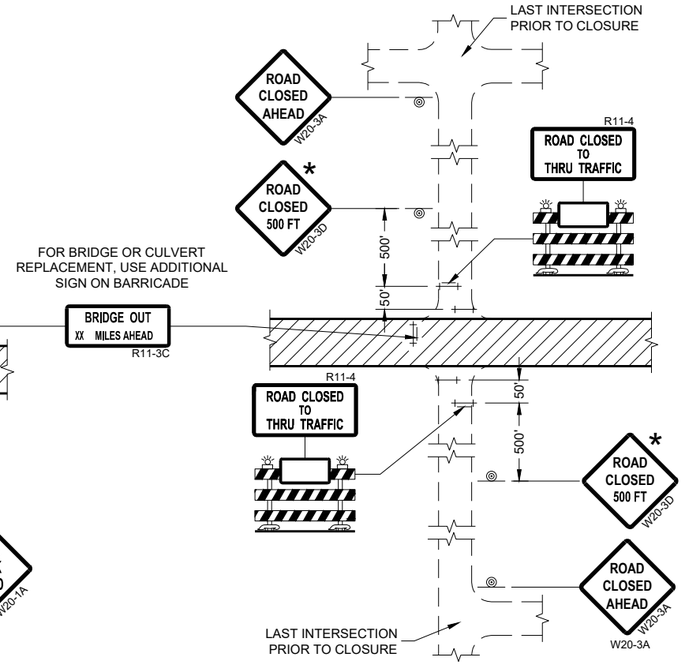
ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

* 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.



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)



DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

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 ENGINEE

FHWA

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SDD 15C03 - 05

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.

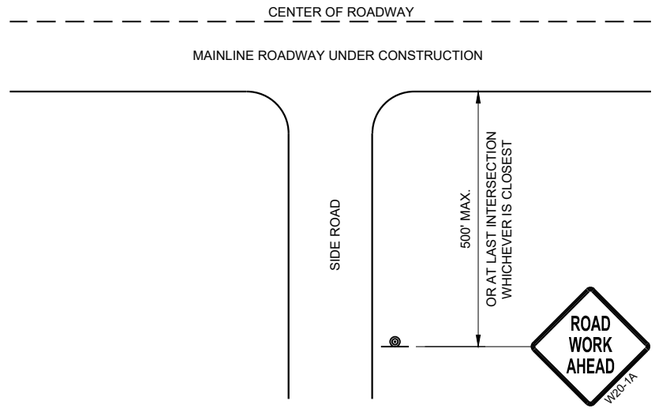
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS

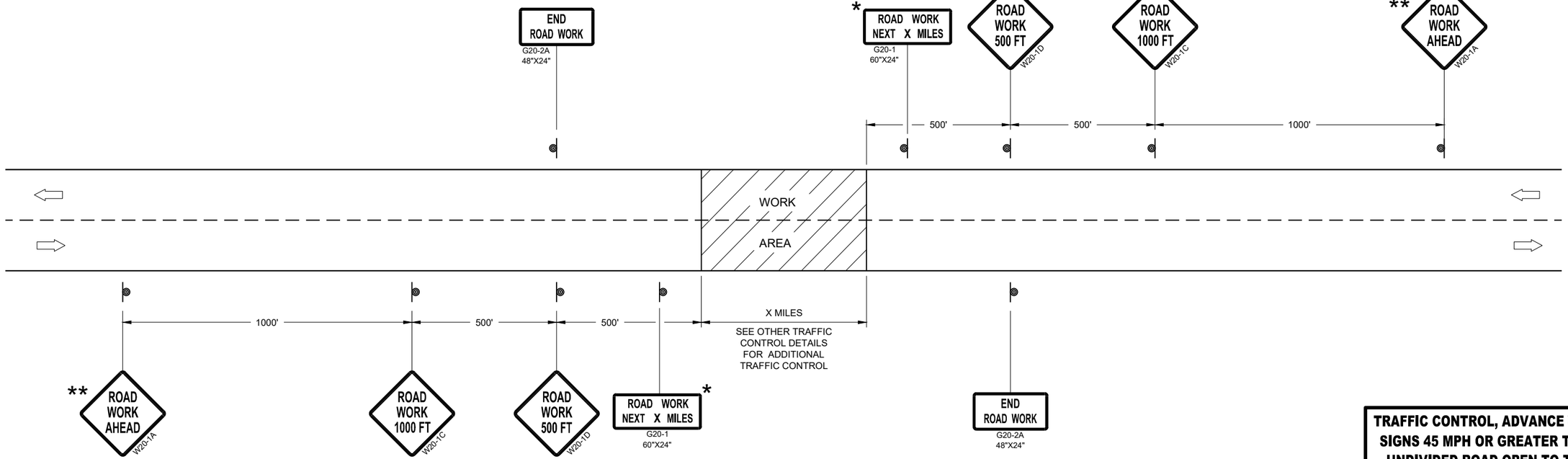
** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15C04 - 05

GENERAL NOTES

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

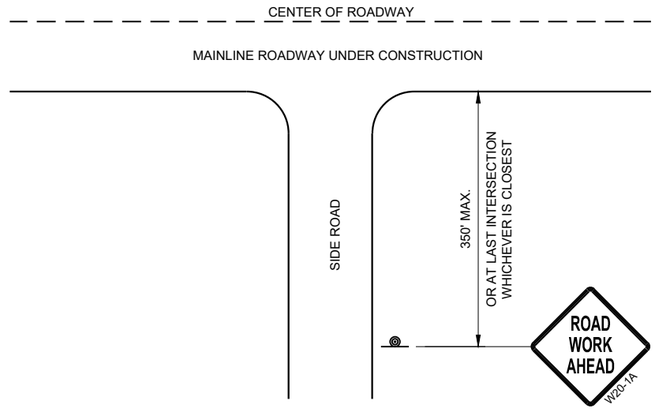
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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.



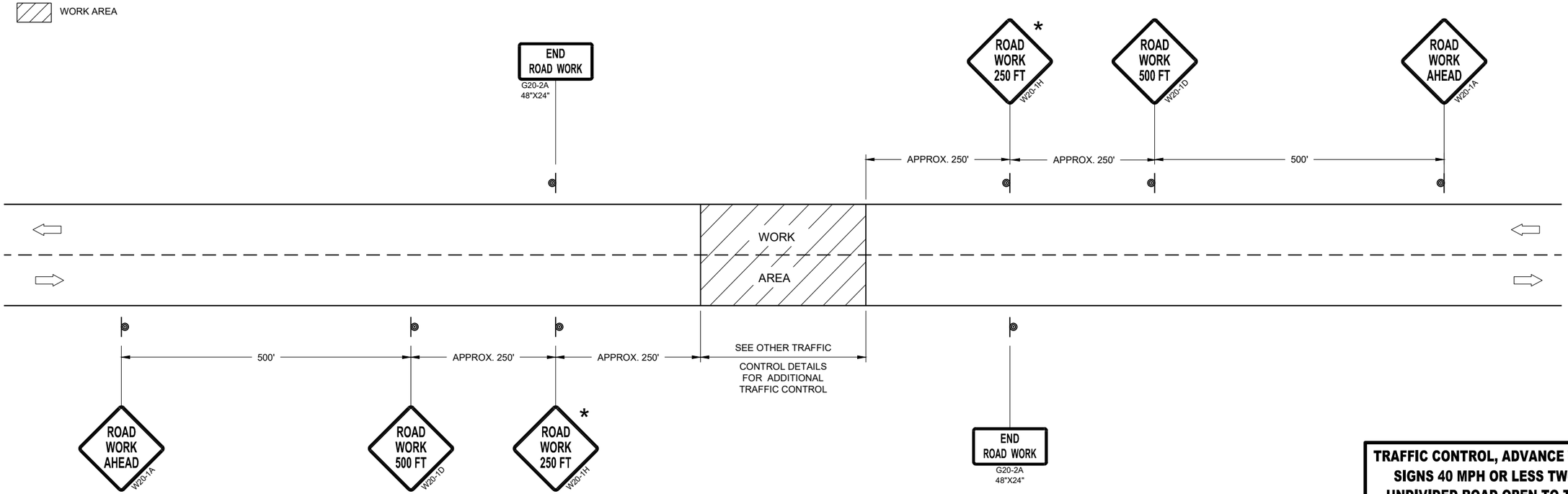
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

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
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15C05 - 05

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.

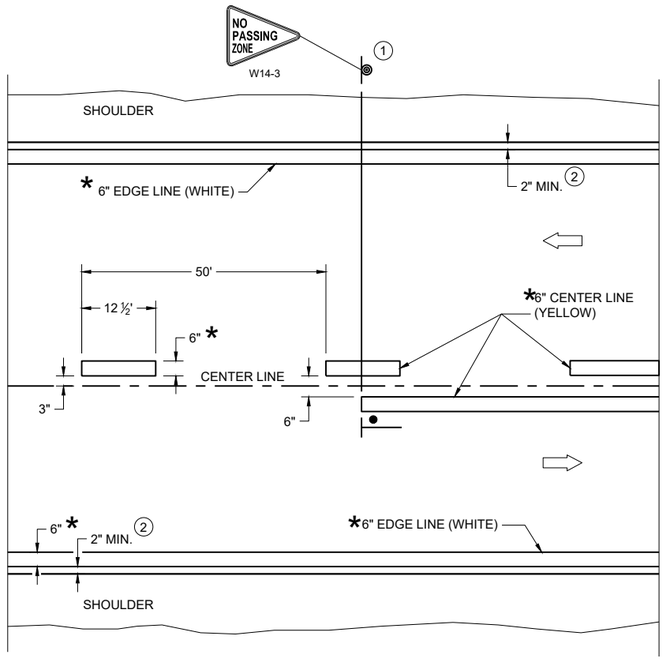
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

LEGEND

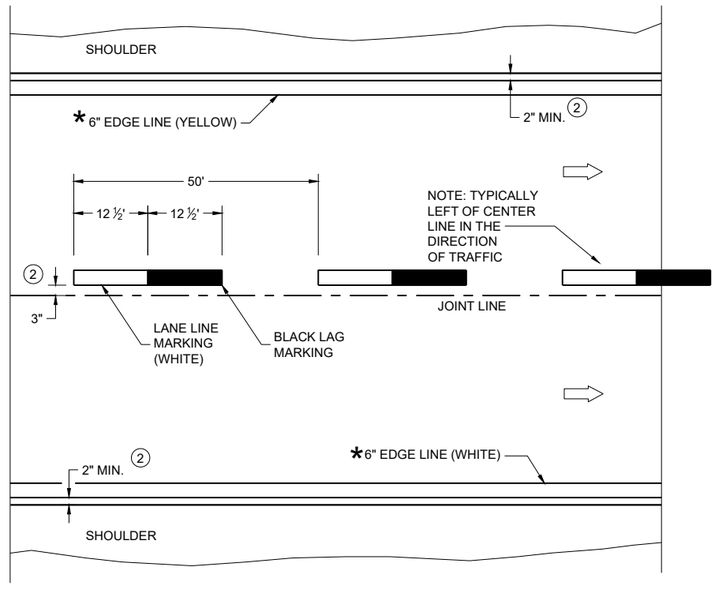
"T" MARKING

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

6

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

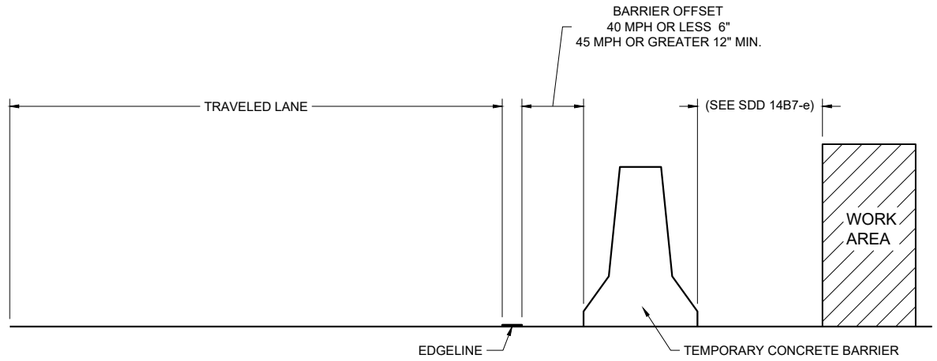
APPROVED

May 2023
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

SDD 15C08-23a



TEMPORARY BARRIER OFFSET FROM EDGELINE

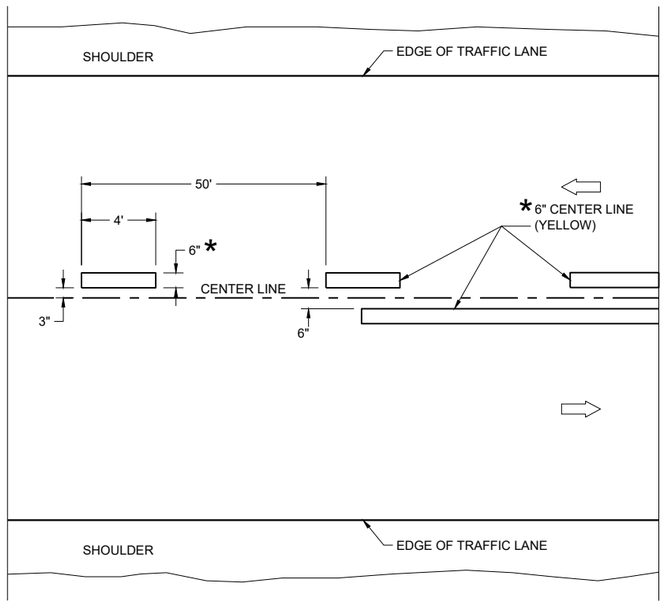
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

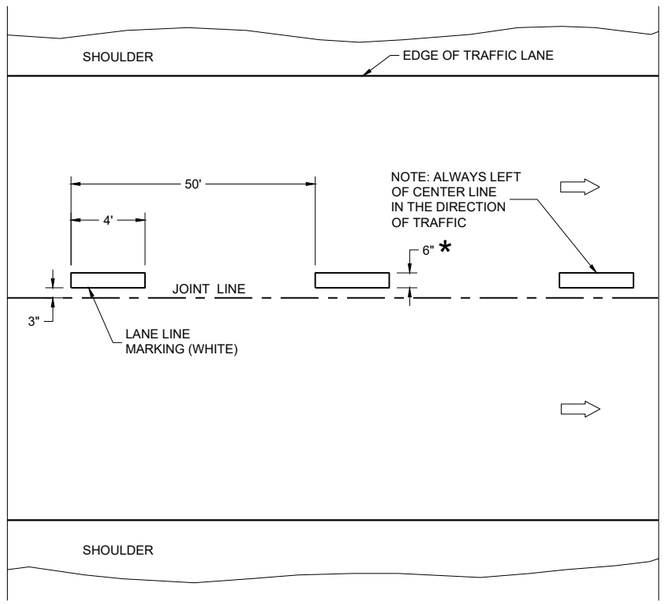
LEGEND

DIRECTION OF TRAFFIC

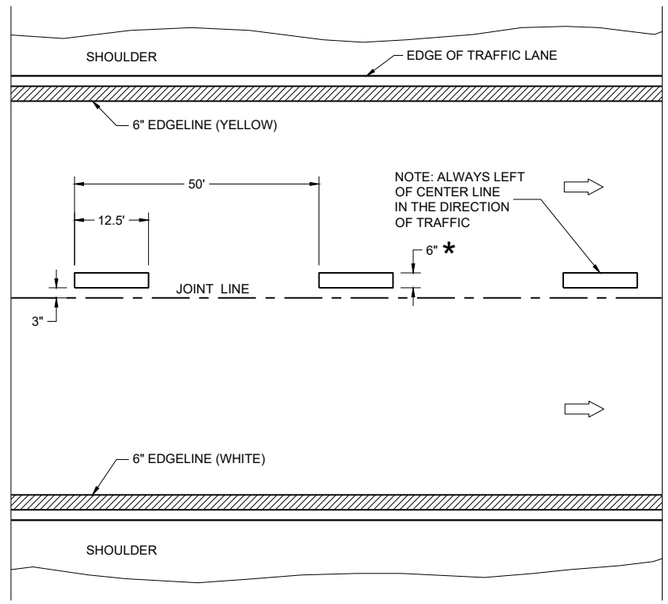
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

TEMPORARY LONGITUDINAL PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Jeannie Silver — Statewide Pavement Marking Engineer

FHWA

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SDD 15C08-23b

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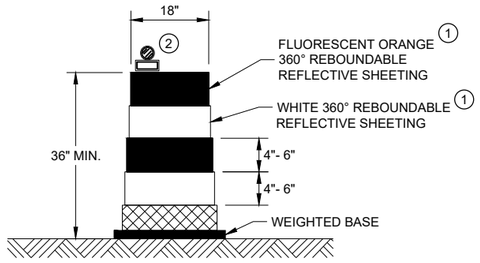
SDD 15C08-23b

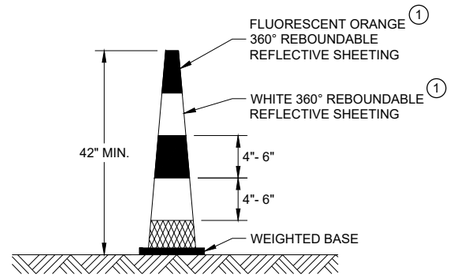
GENERAL NOTES

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

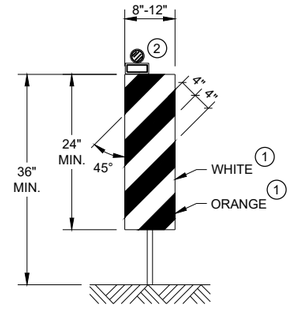
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

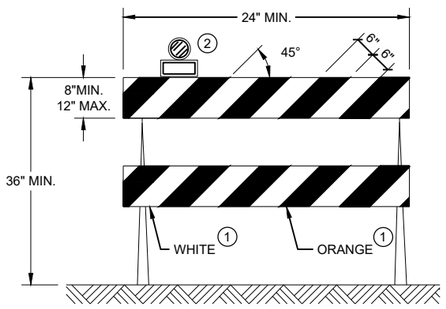
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



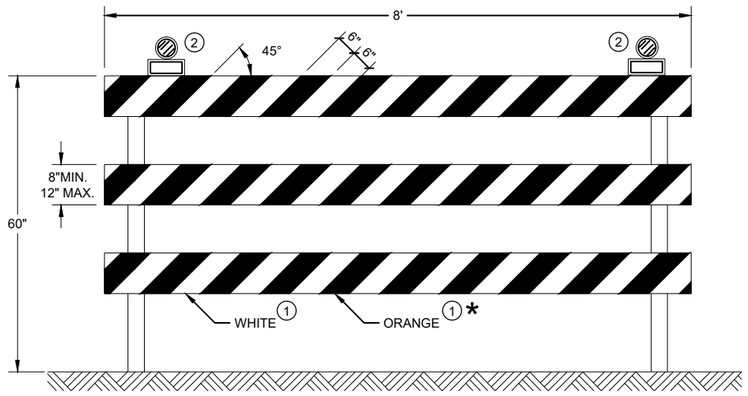
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15C11 - 10b
SDD 15C11 - 10b

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

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

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

(1) FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

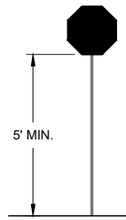
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.



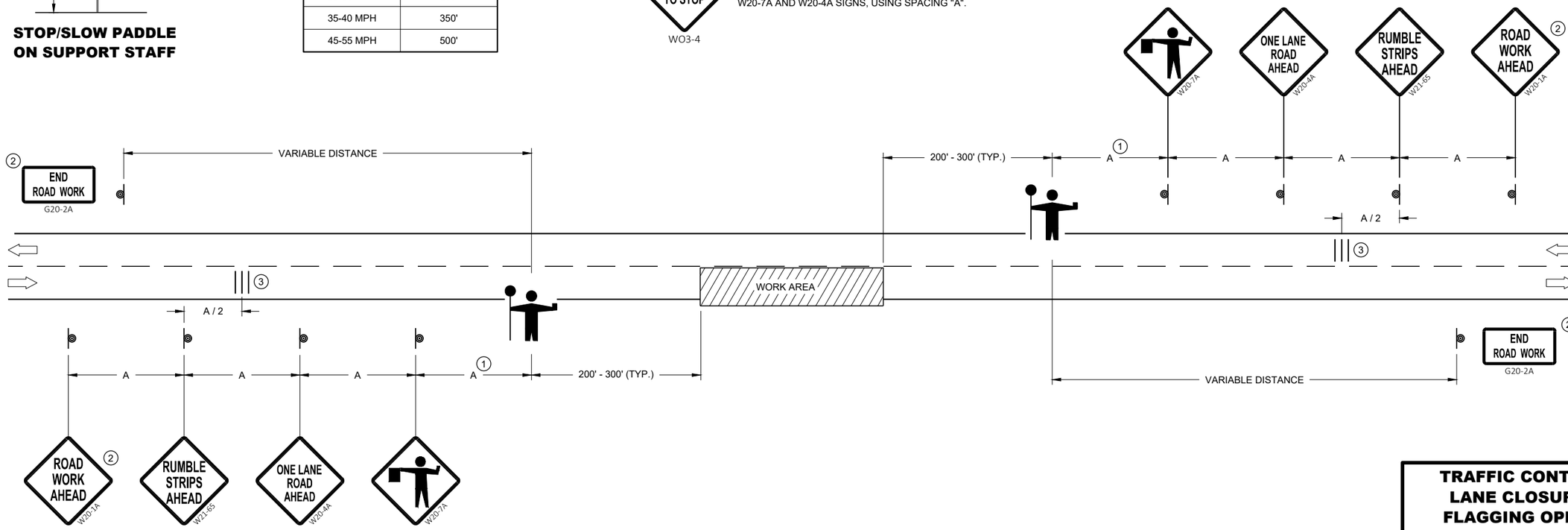
STOP/SLOW PADDLE ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

WO3-4

USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15C12 - 09a

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SDD 15C12 - 09a

LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

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.

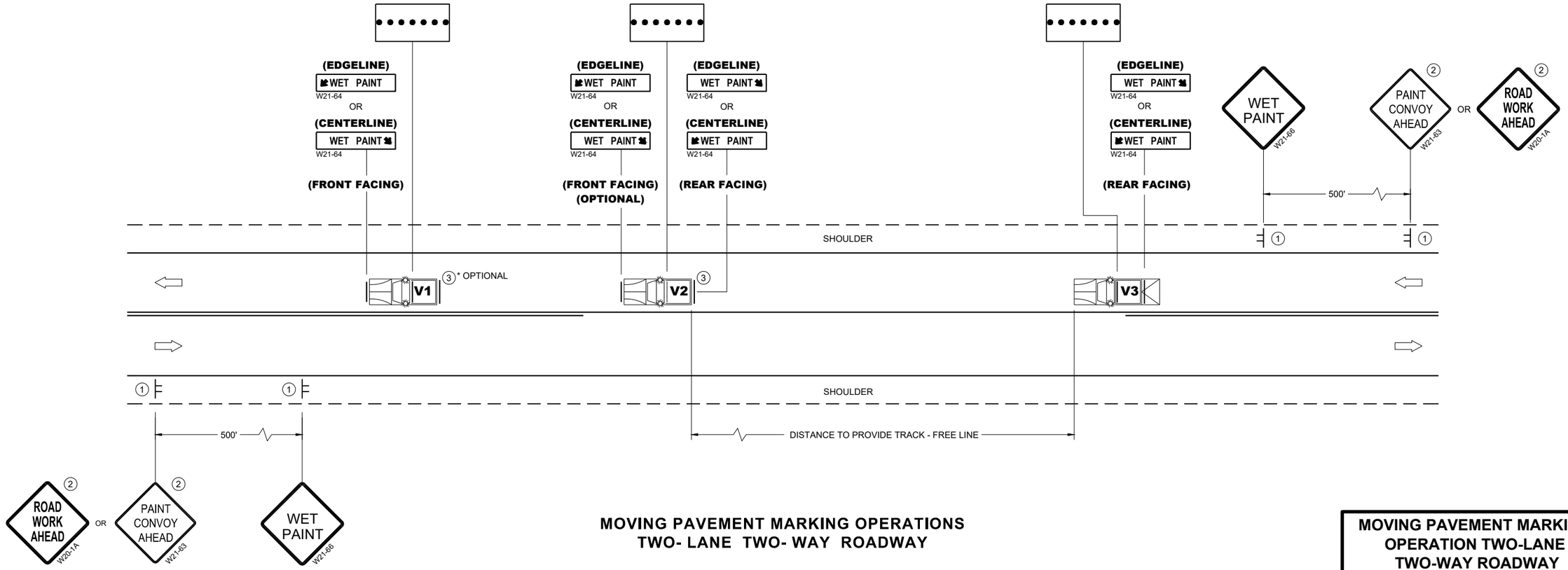
CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM OF 28" FOR WET PAVEMENT MARKING .

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY MAJOR INTERSECTION.

(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

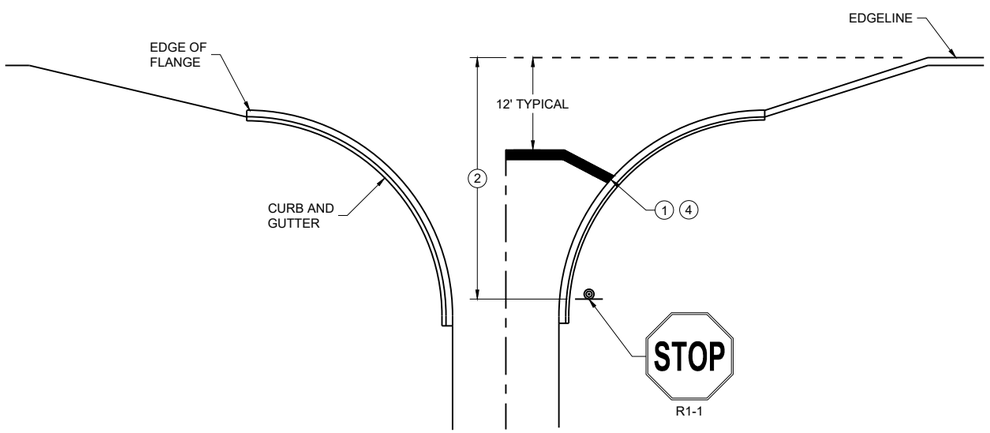
APPROVED
March 2024 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

6
SDD 15C19-9a

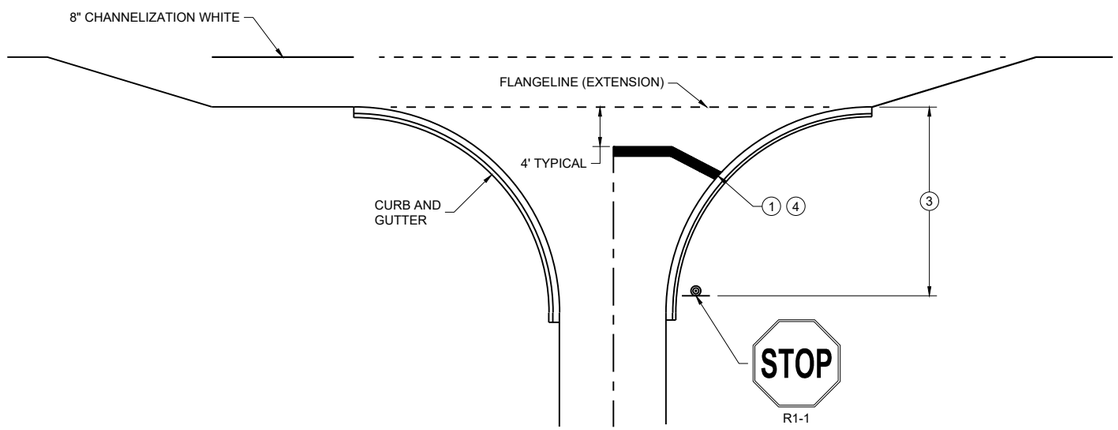
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

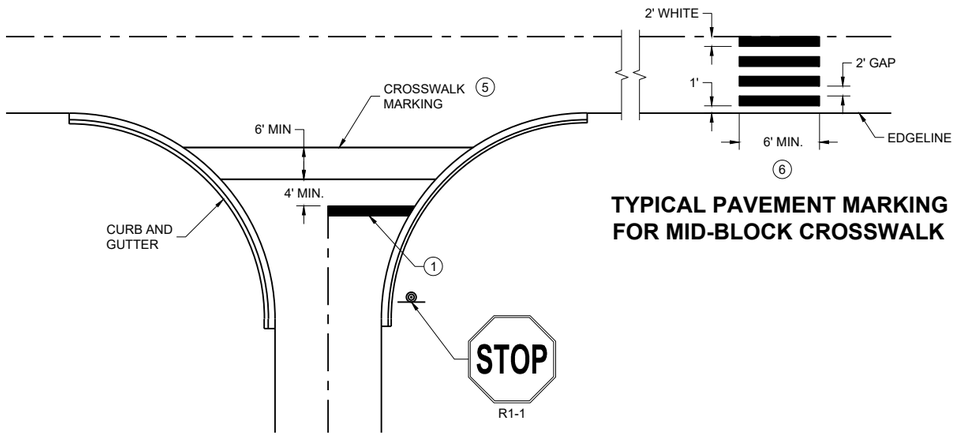
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGE LINE 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.
6. POSTED SPEED LIMITS OF 40 MPH OR GREATER USE A MINIMUM WIDTH OF 8' FOR MIDBLOCK CROSSWALKS



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

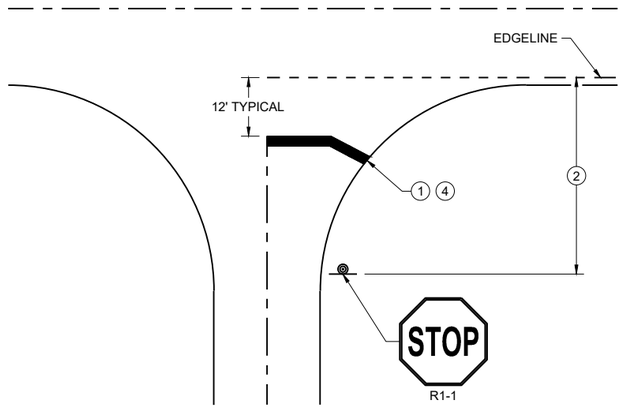


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK (5)

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

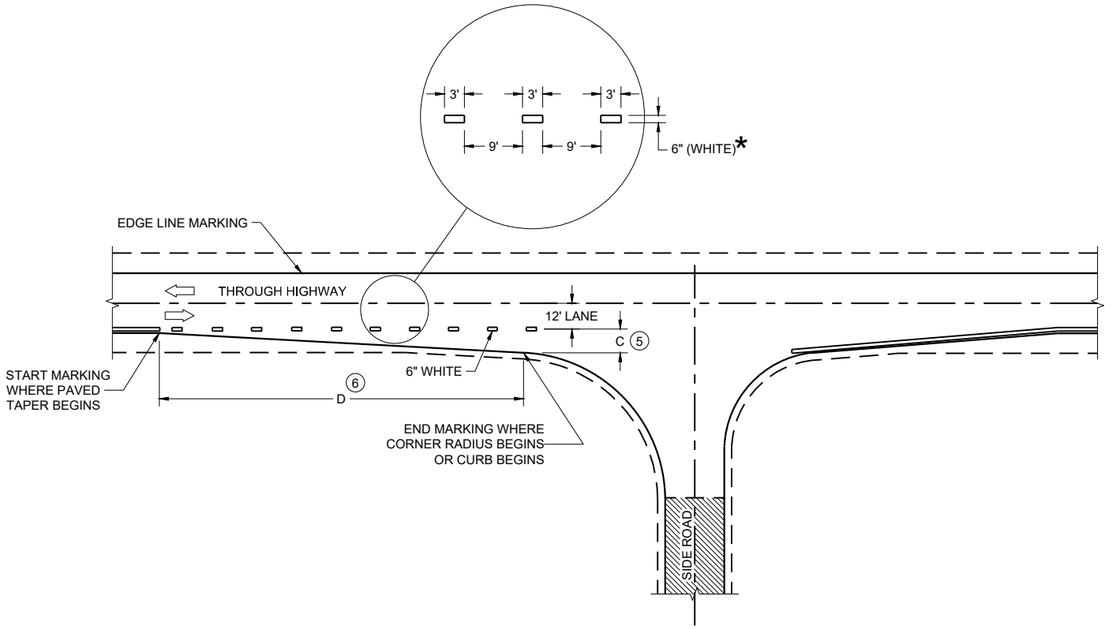
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

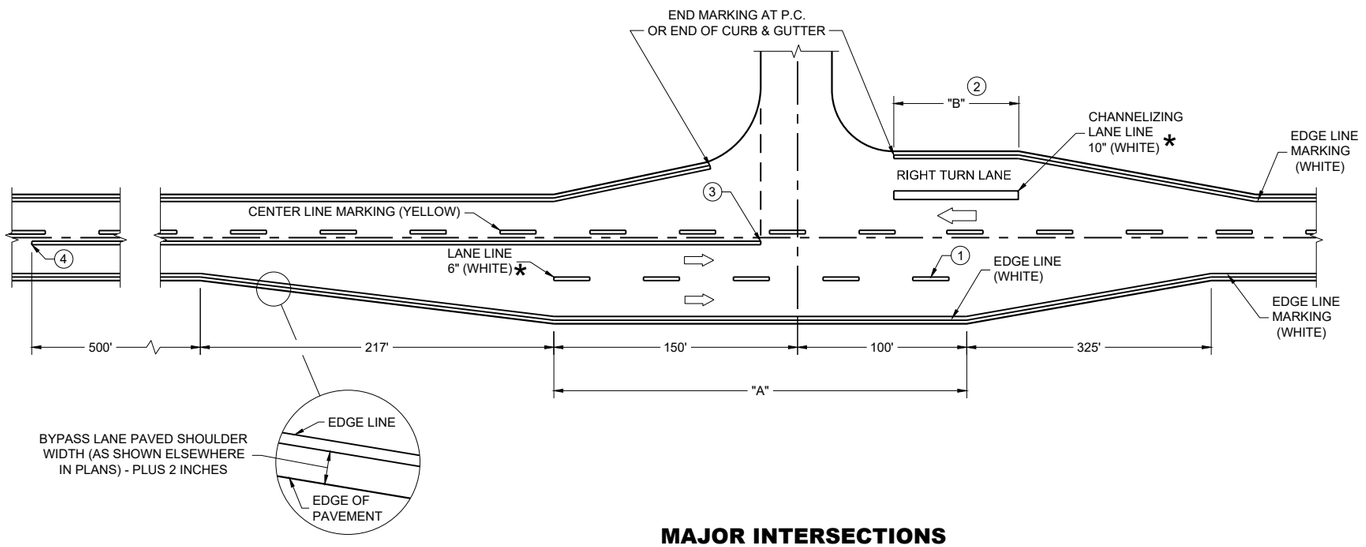
March 2024 — DATE

/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

FHWA



MINOR INTERSECTION



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

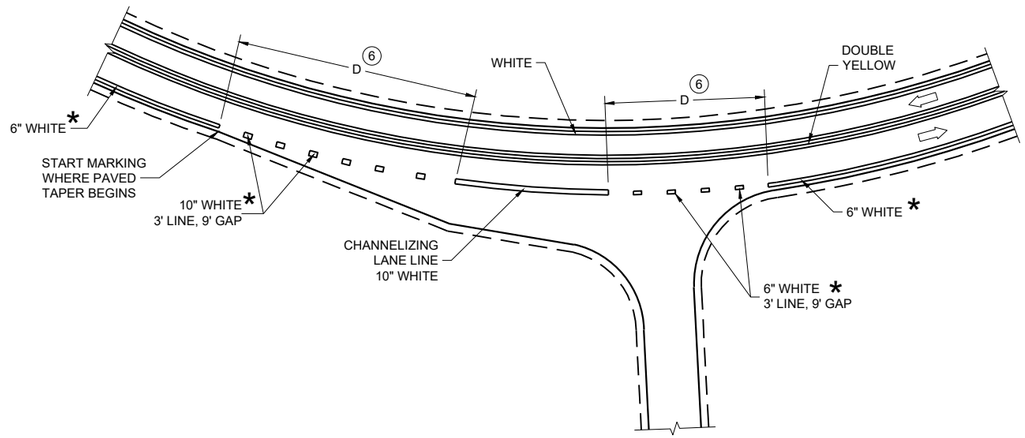
GENERAL NOTES

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

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C35-06a

SDD 15C35-06a

LEGEND

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

DIRECTION OF TRAFFIC

WORK ZONE

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

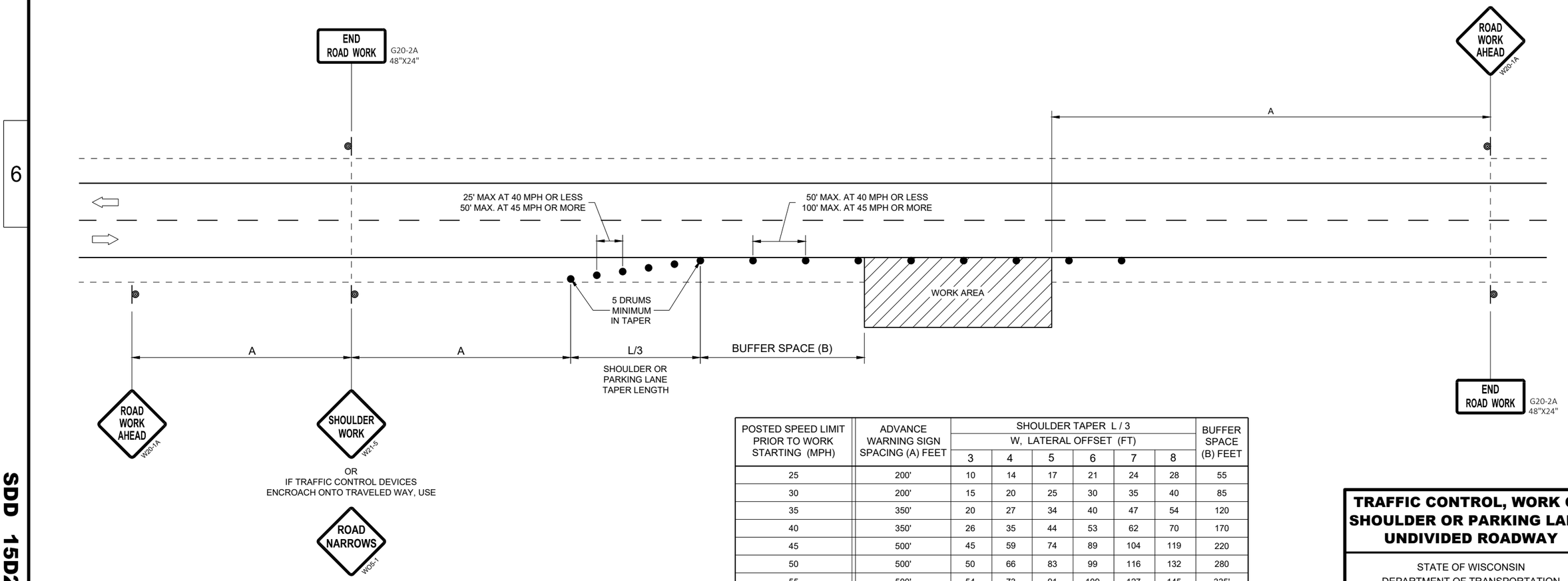
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

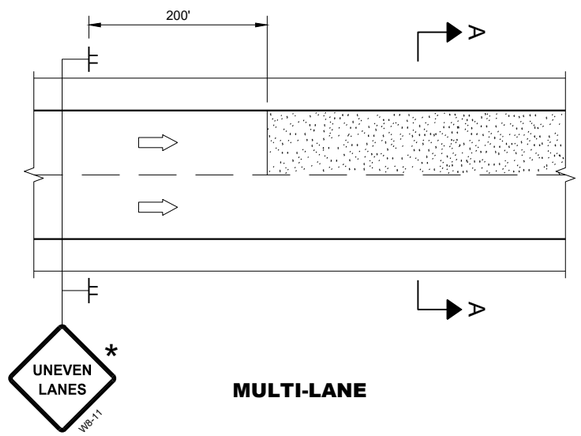
APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

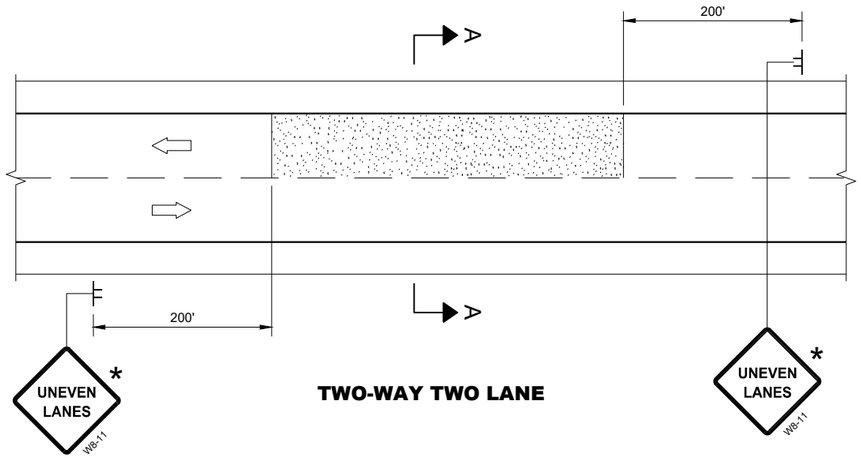
FHWA

SDD 15D28 - 04

SDD 15D28 - 04



MULTI-LANE



TWO-WAY TWO LANE

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

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

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

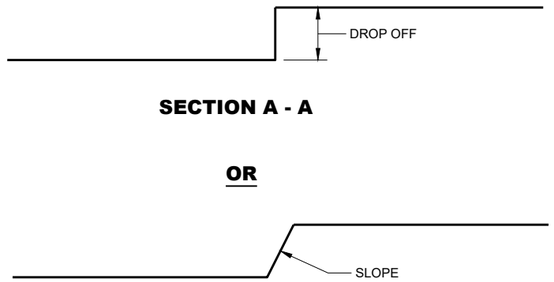
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EVERY ENTRANCE RAMP.

(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

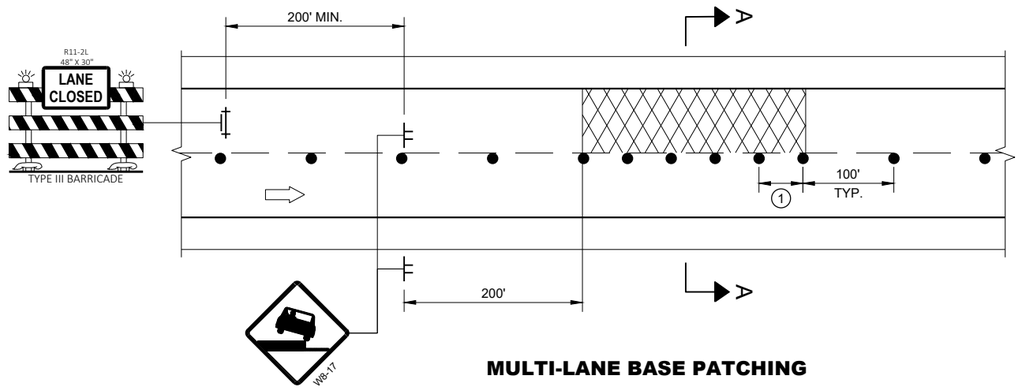
LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE



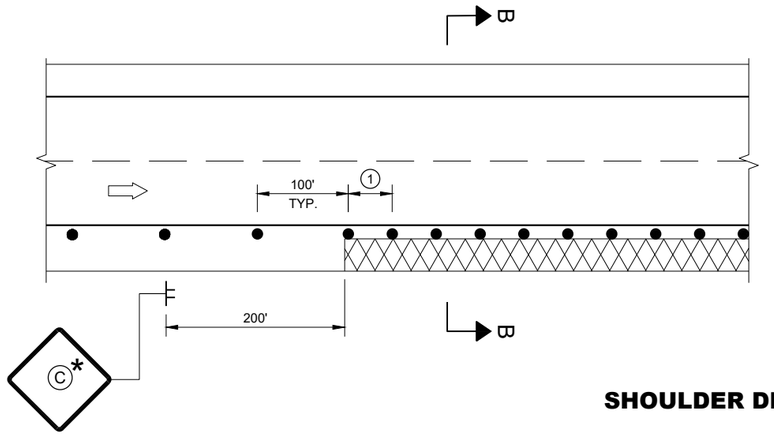
SECTION A - A

SECTION A - A

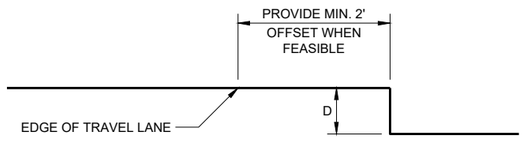


MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS



SHOULDER DROP-OFFS



SECTION B - B

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER WO8-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP - OFF W8-9A PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15D39 - 02

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

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

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

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

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

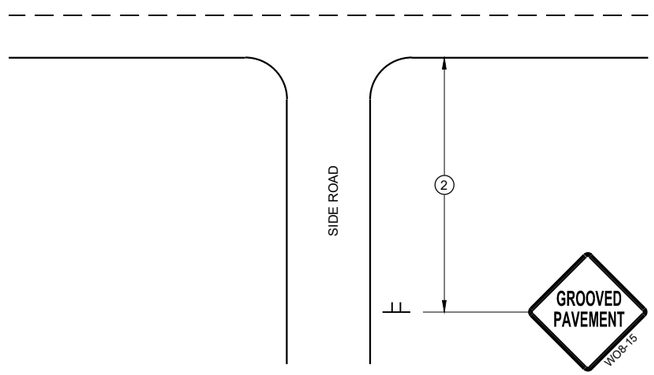
(1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

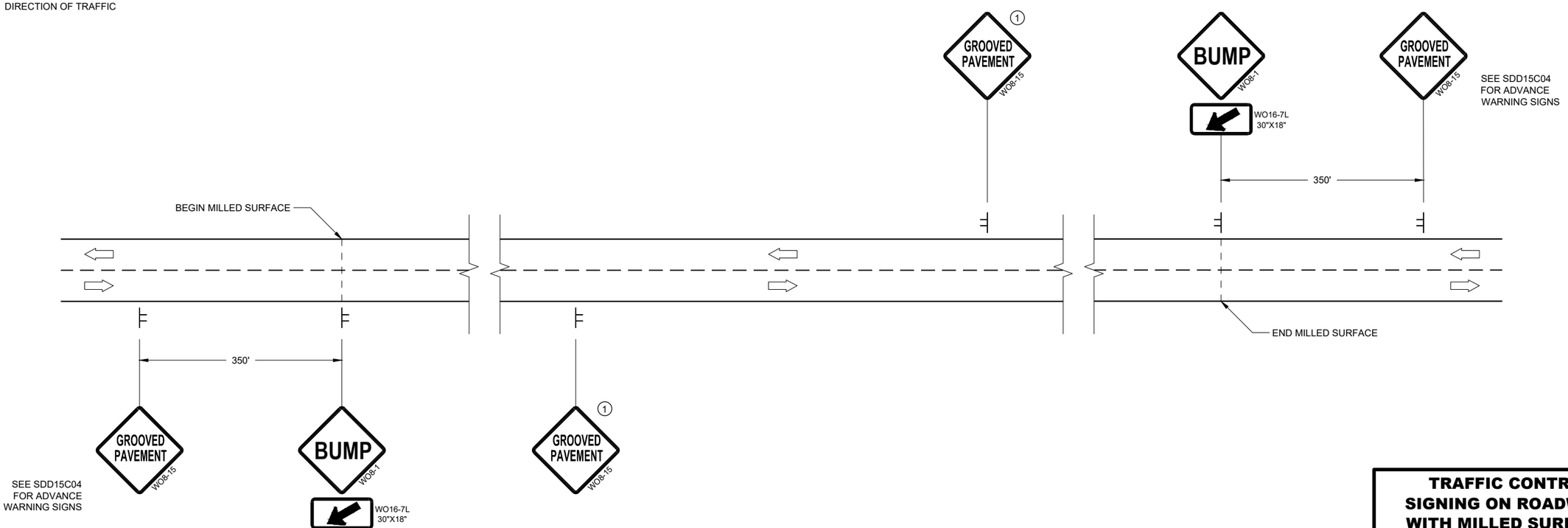
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON MILLED SURFACES

TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6
SDD 15D44 - 02

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

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

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

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

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

(1) PLACE SIGNS 350' IN ADVANCE OF CHIP SEALED OR LOOSE GRAVEL SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.

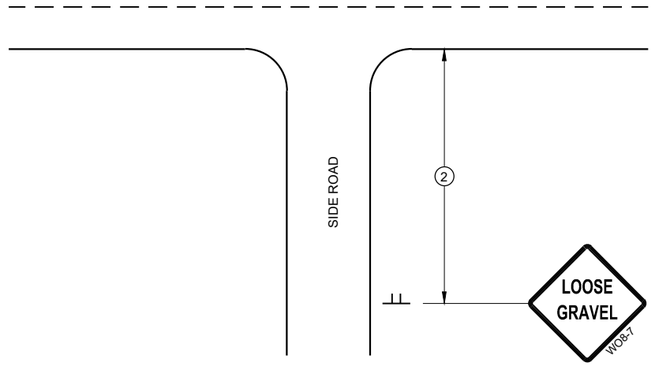
(2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

(3) ADD WO8-1 OR WO8-2 SIGN WHEN THE CONDITION IS PRESENT.

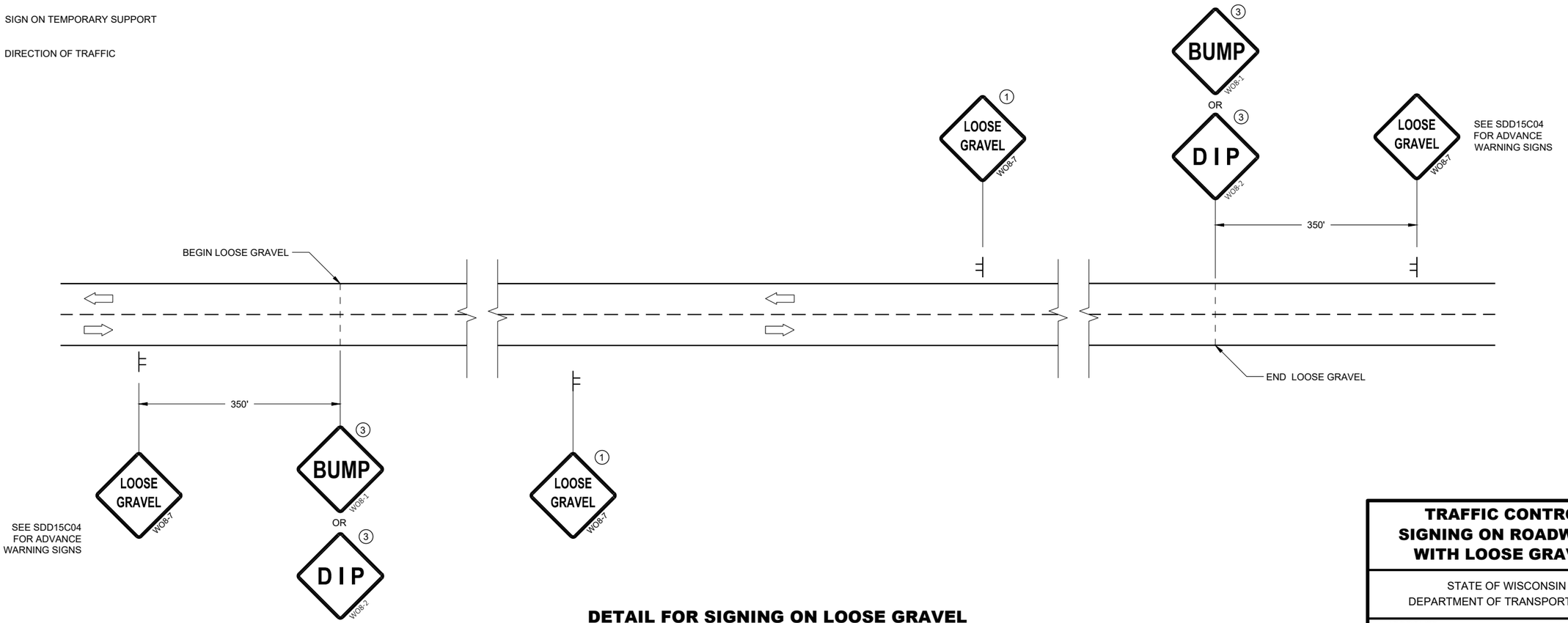
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



DETAIL FOR SIGNING ON LOOSE GRAVEL OR CHIP SEALED SURFACES

TRAFFIC CONTROL SIGNING ON ROADWAYS WITH LOOSE GRAVEL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

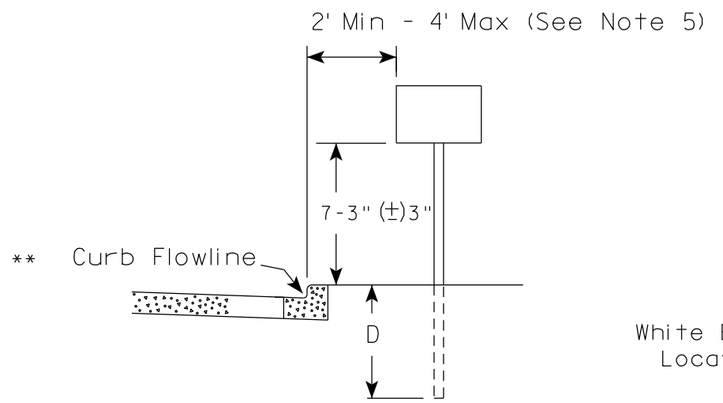
APPROVED
February 2021
DATE
/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

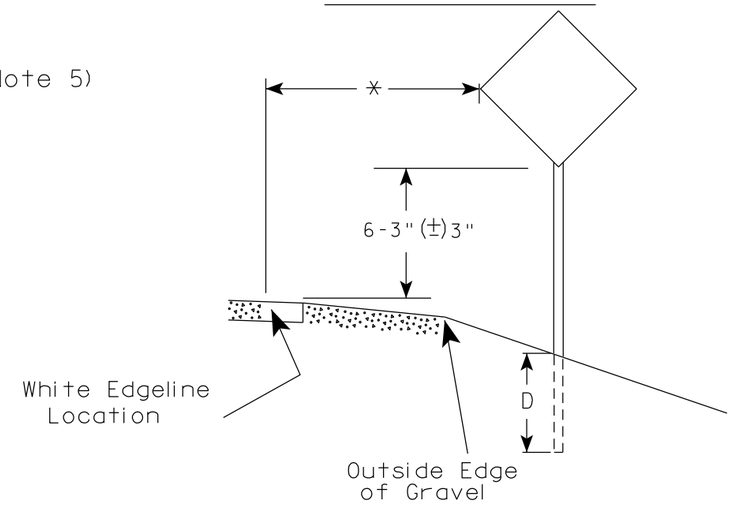
6

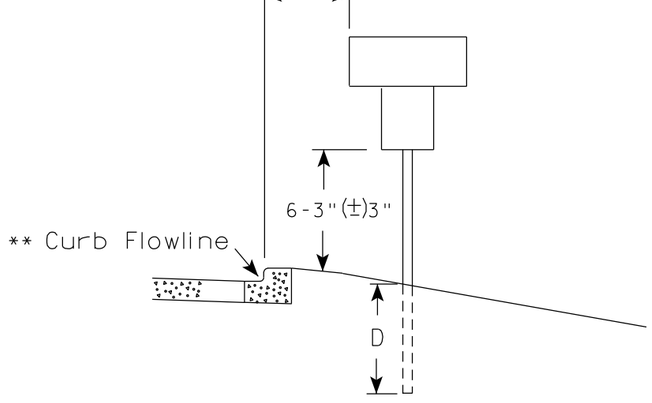
SDD 15D45 - 03

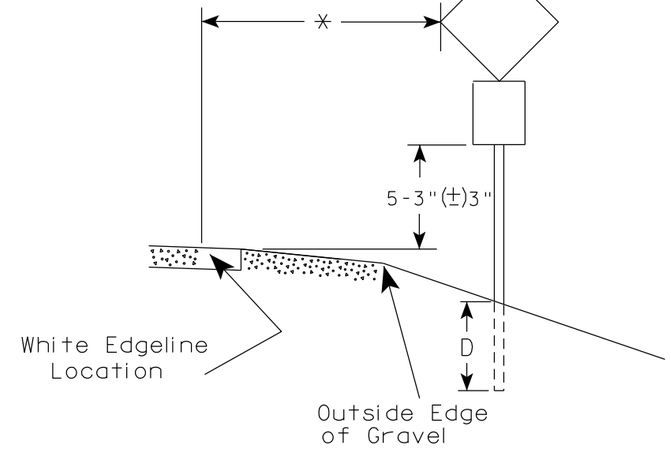
URBAN AREA



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.

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" (±) 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".
3. For expressways and freeways, mounting height is 7'- 3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±) 3".
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directd by the Engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

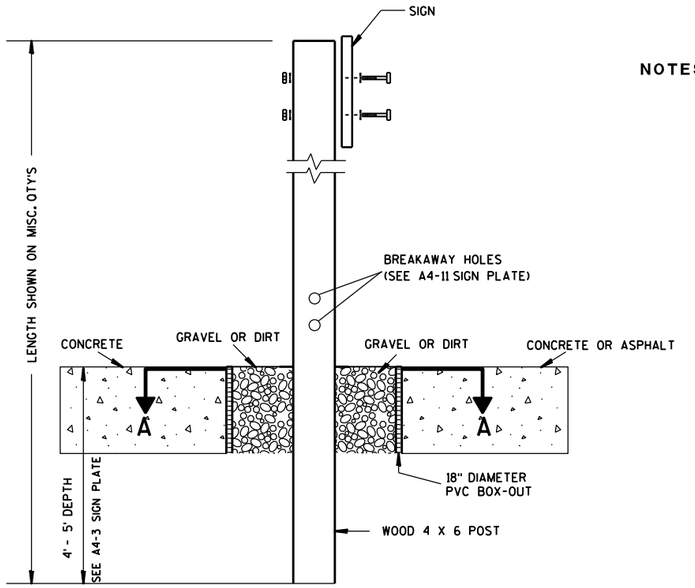
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

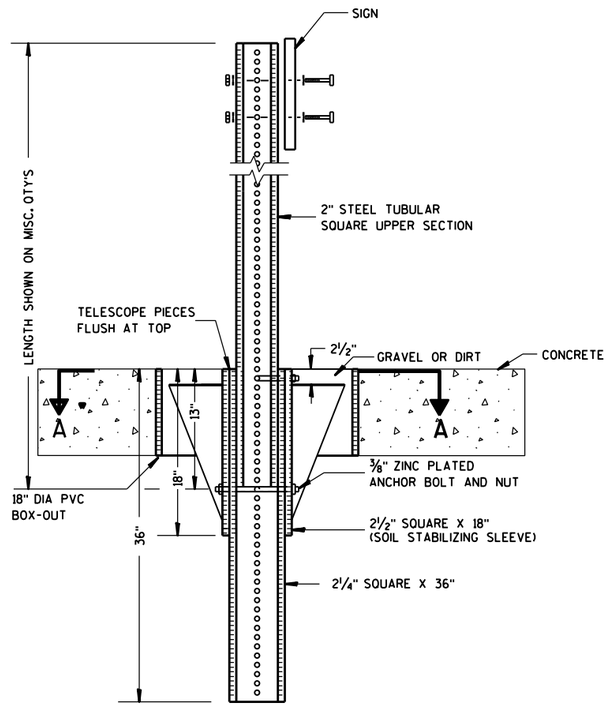
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 79	E



ELEVATION VIEW

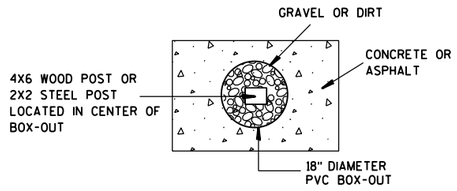
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

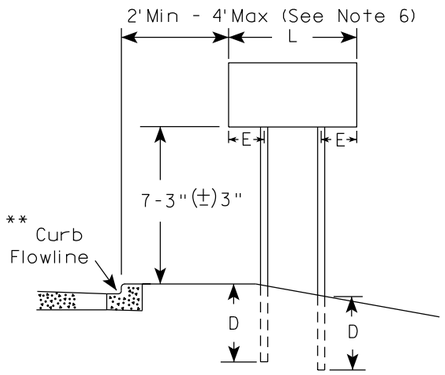
WISCONSIN DEPT OF TRANSPORTATION

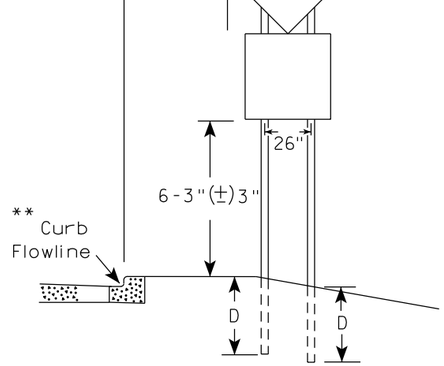
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

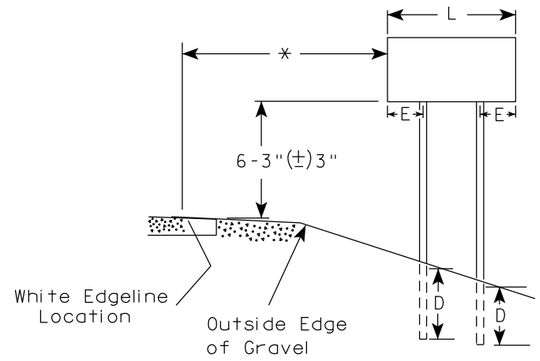
URBAN AREA

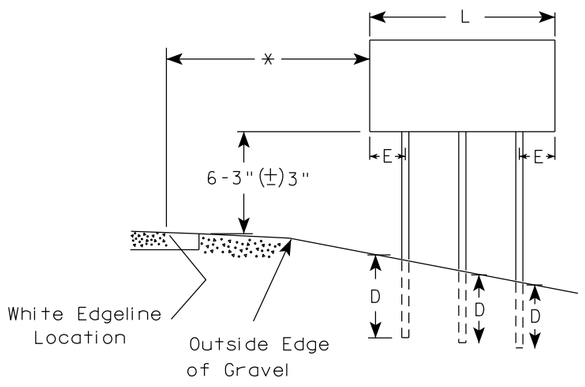


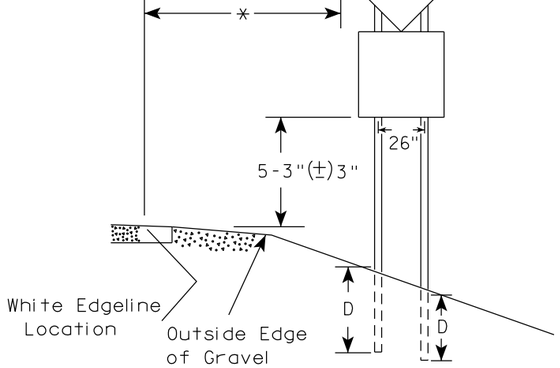


48" DIAMOND WARNING SIGN

RURAL AREA (See Note 3)







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" (±) 3" or 6'-3" (±) 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" (±) 3" or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 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" (±) 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'

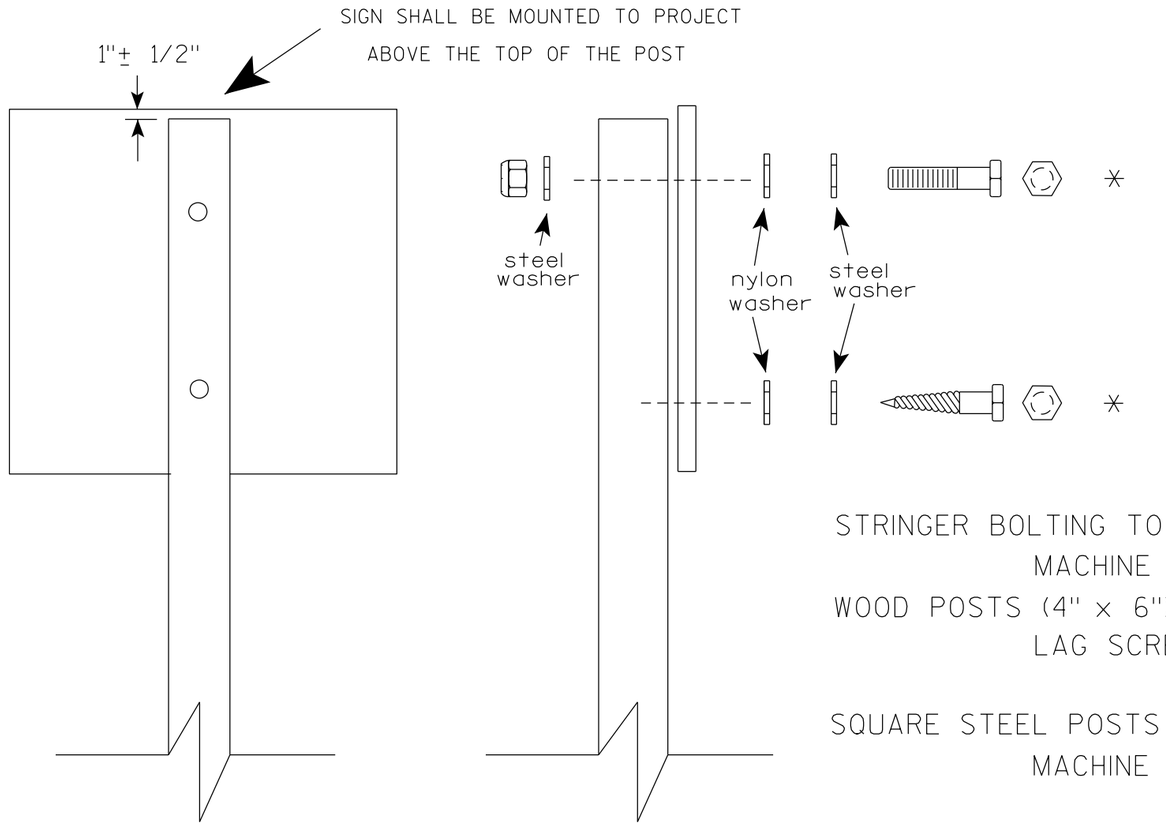
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-4.16

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 81	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

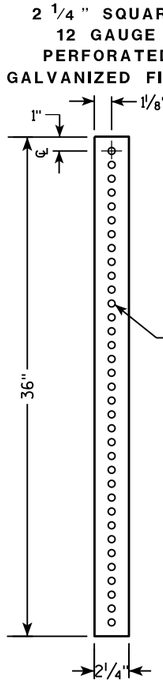
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

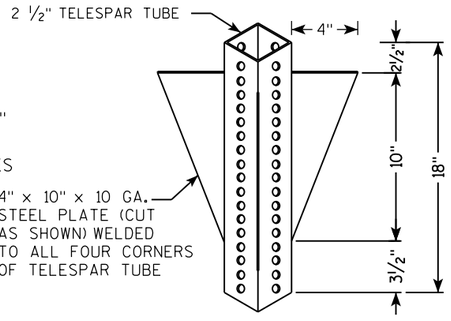
DATE 4/1/2020 PLATE NO. A4-8.9

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

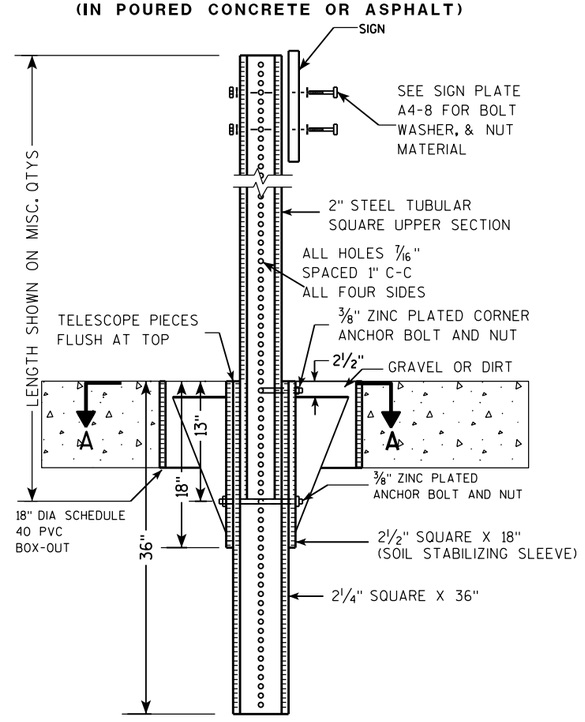
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



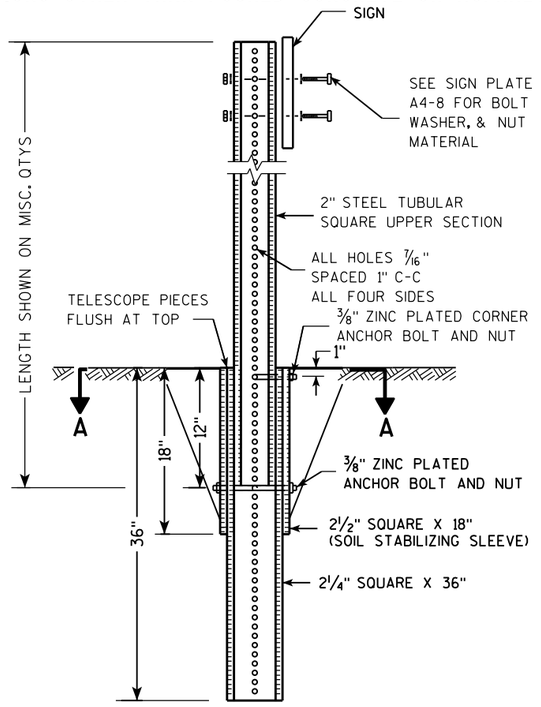
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

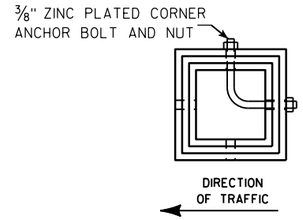


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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).

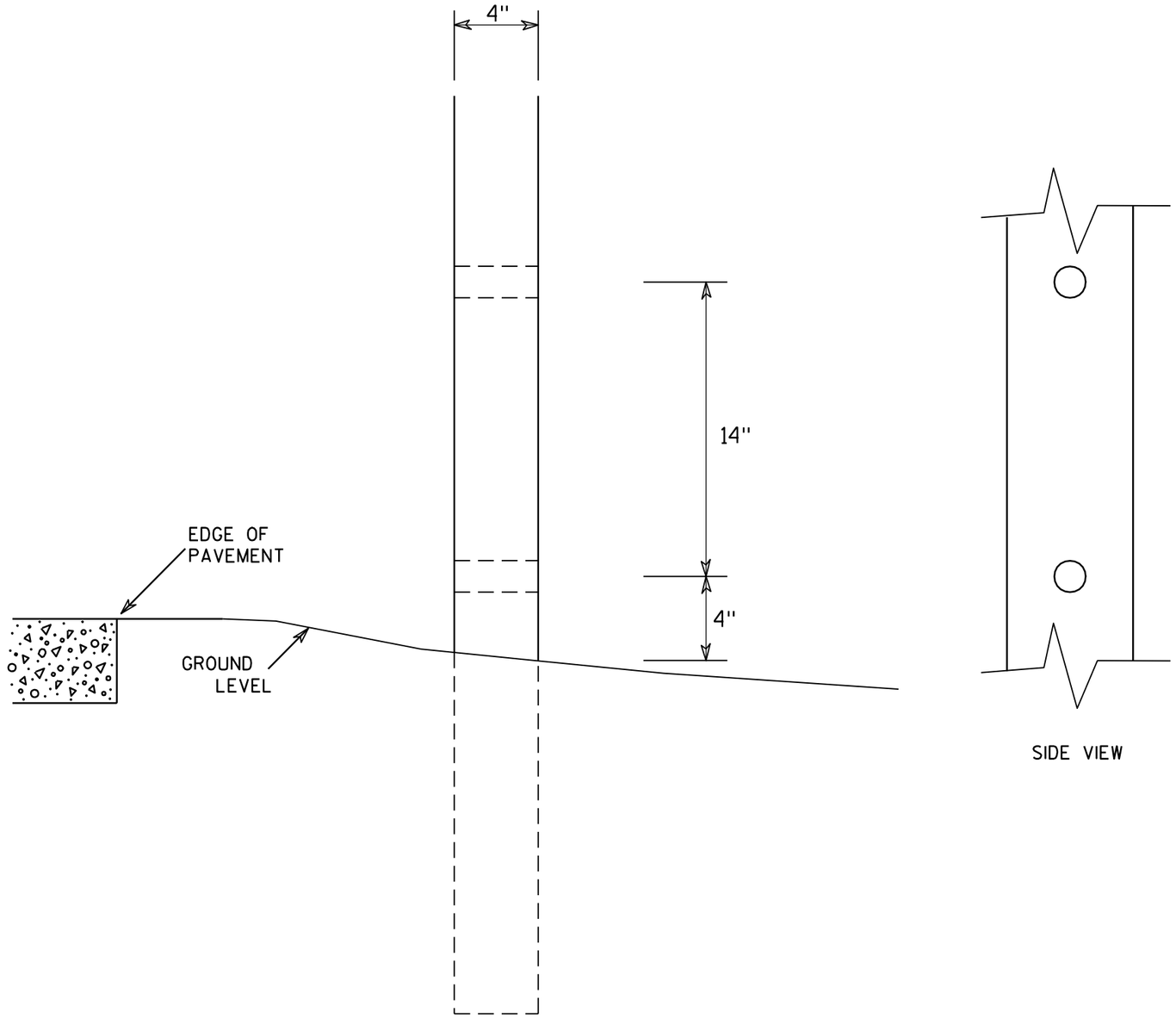
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 83 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

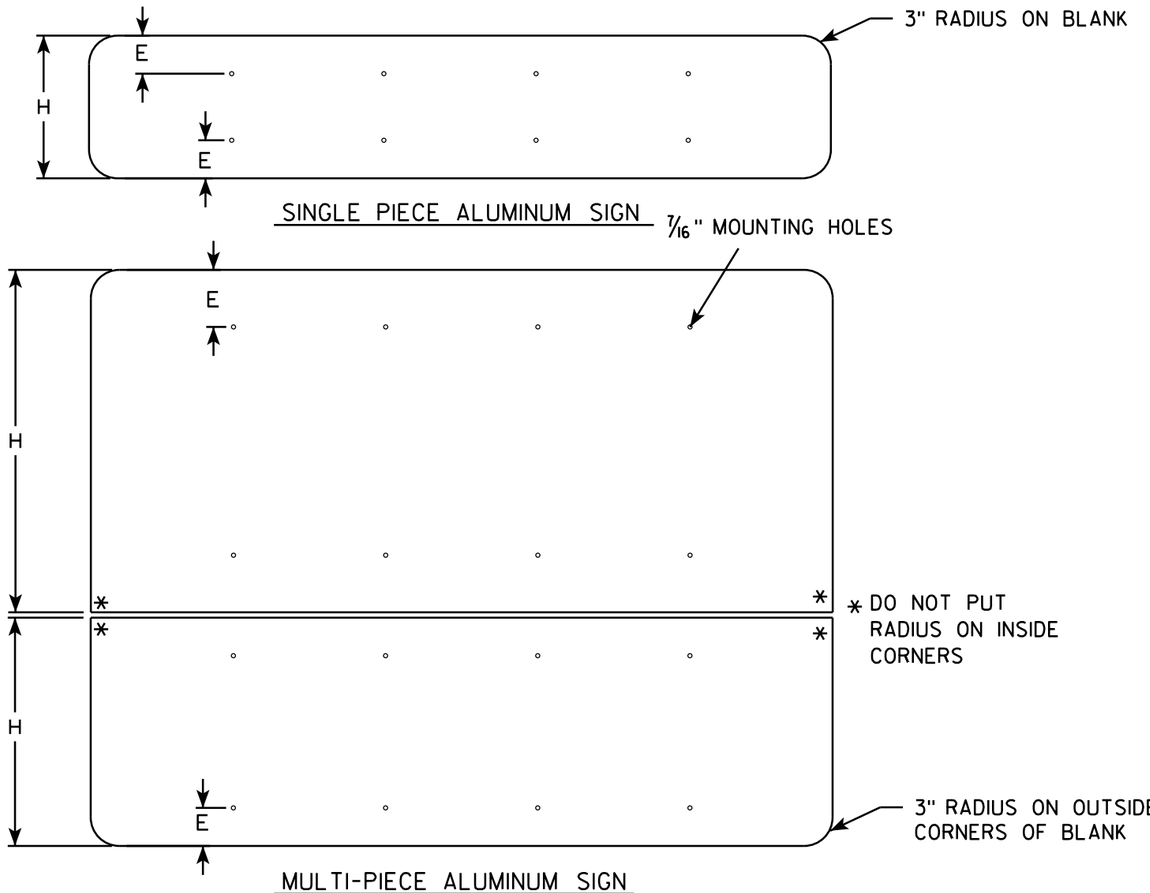
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

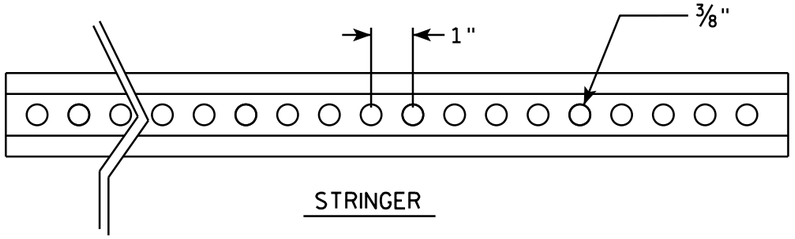
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 84	E



GENERAL NOTES

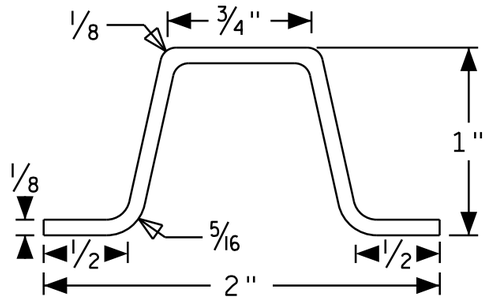
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

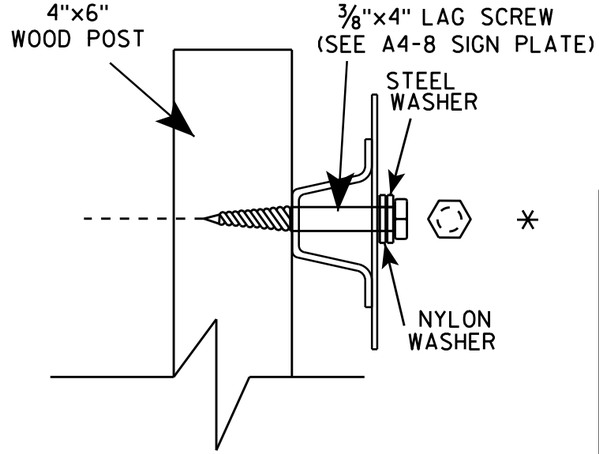


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

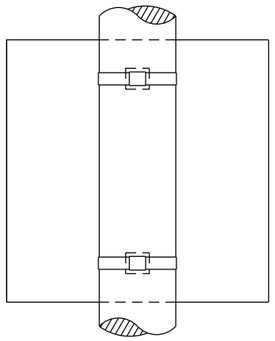
DATE 4/26/16 PLATE NO A4-18.1

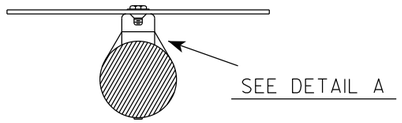
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

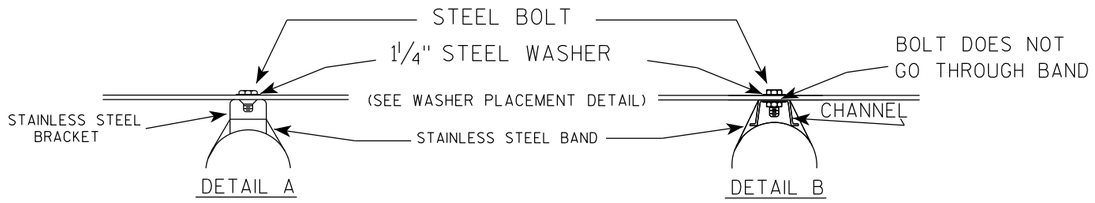
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

BANDING

SINGLE SIGN



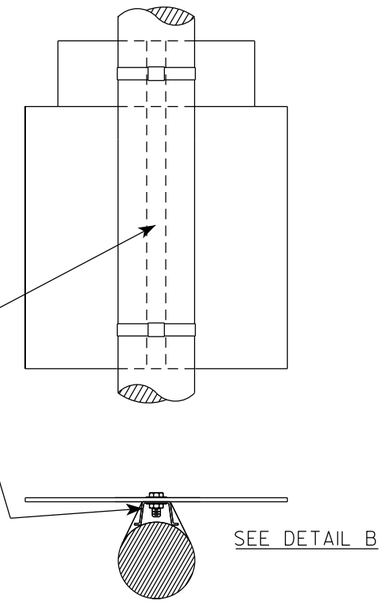




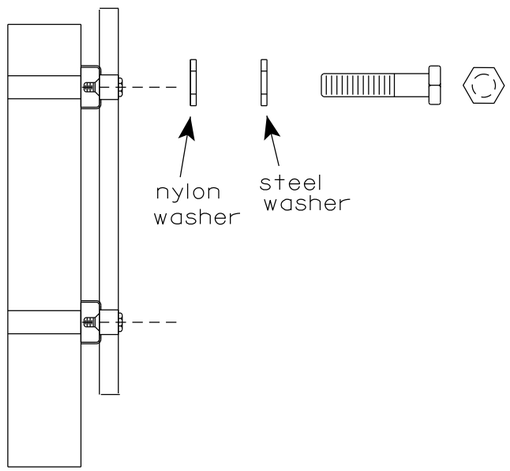
GENERAL NOTES

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



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X ⅜" I.D. X 1/16" STEEL
1-1/4" O.D. X ⅜" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

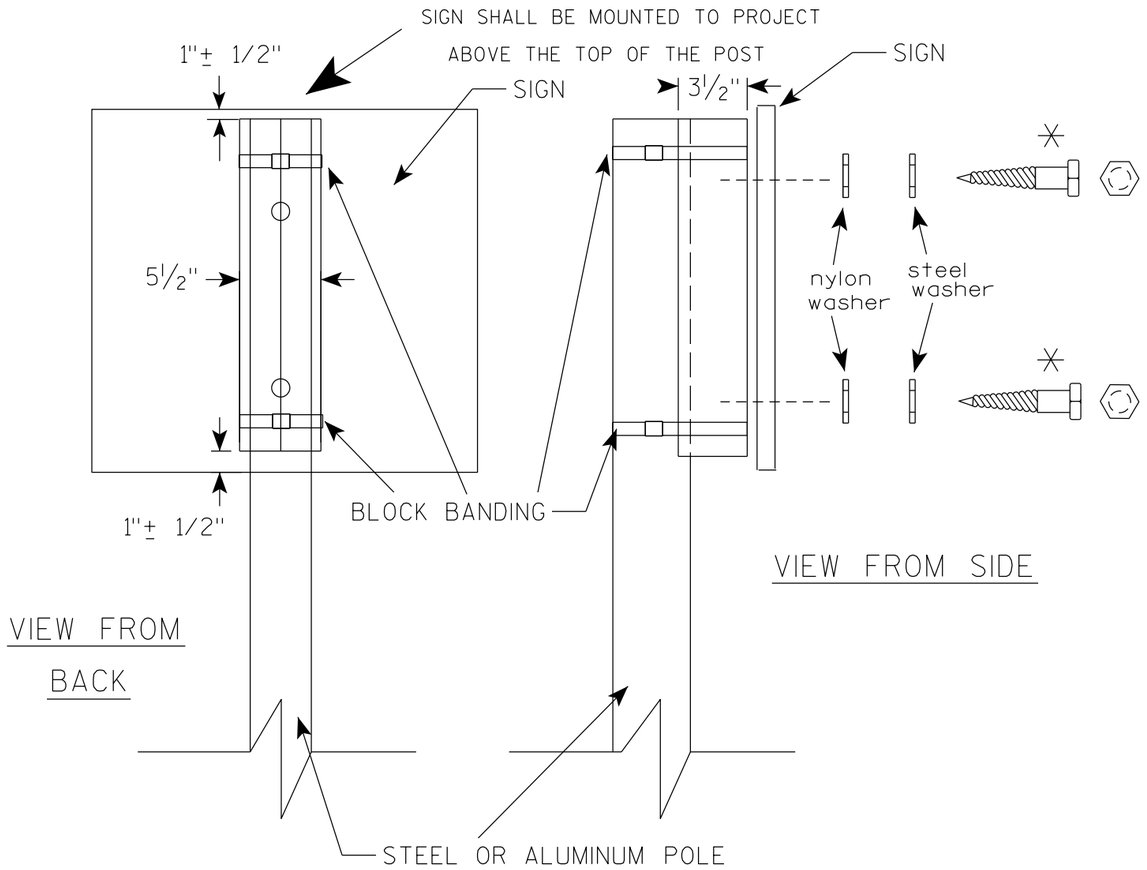
DATE 6/10/19 PLATE NO. A5-9.4

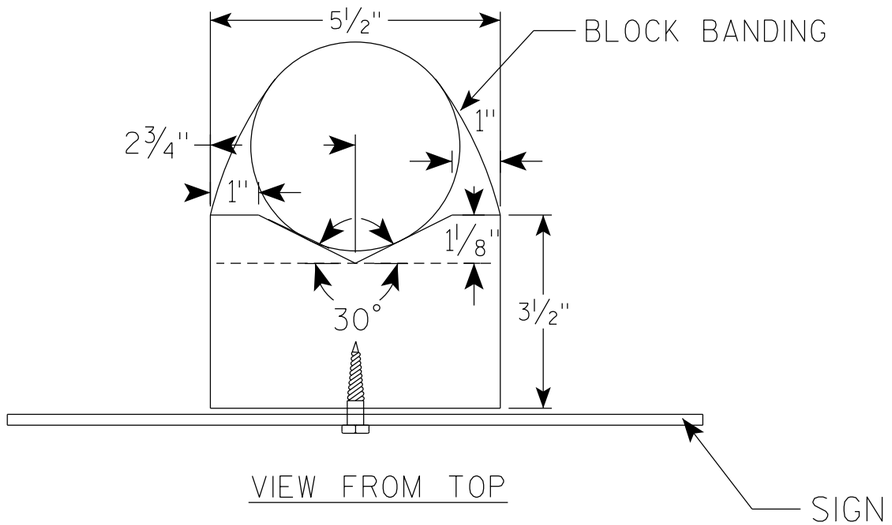
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 86	E

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)

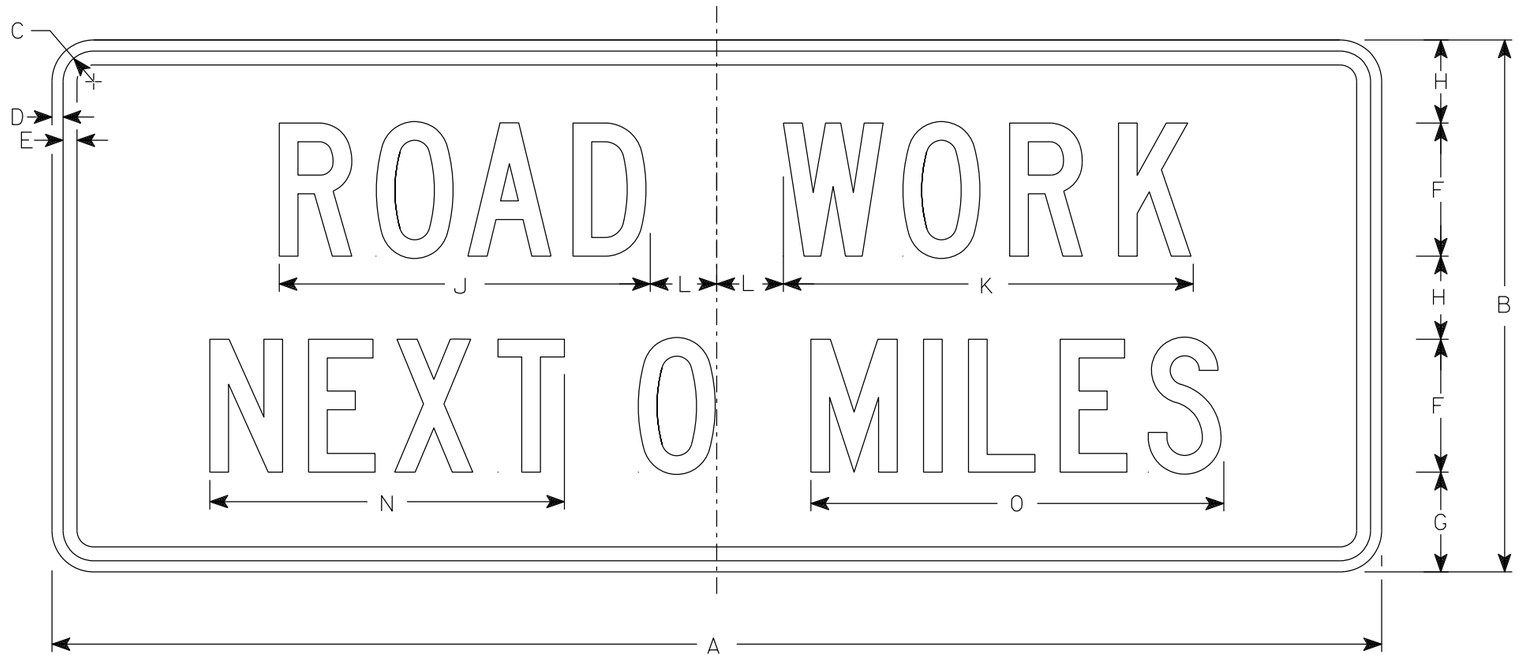
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

SHEET NO: 87 E



G20-1

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. 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																											
2S	60	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10.0
2M	60	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10.0
3	60	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10.0
4	60	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10.0
5	60	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10.0

STANDARD SIGN
G20-1

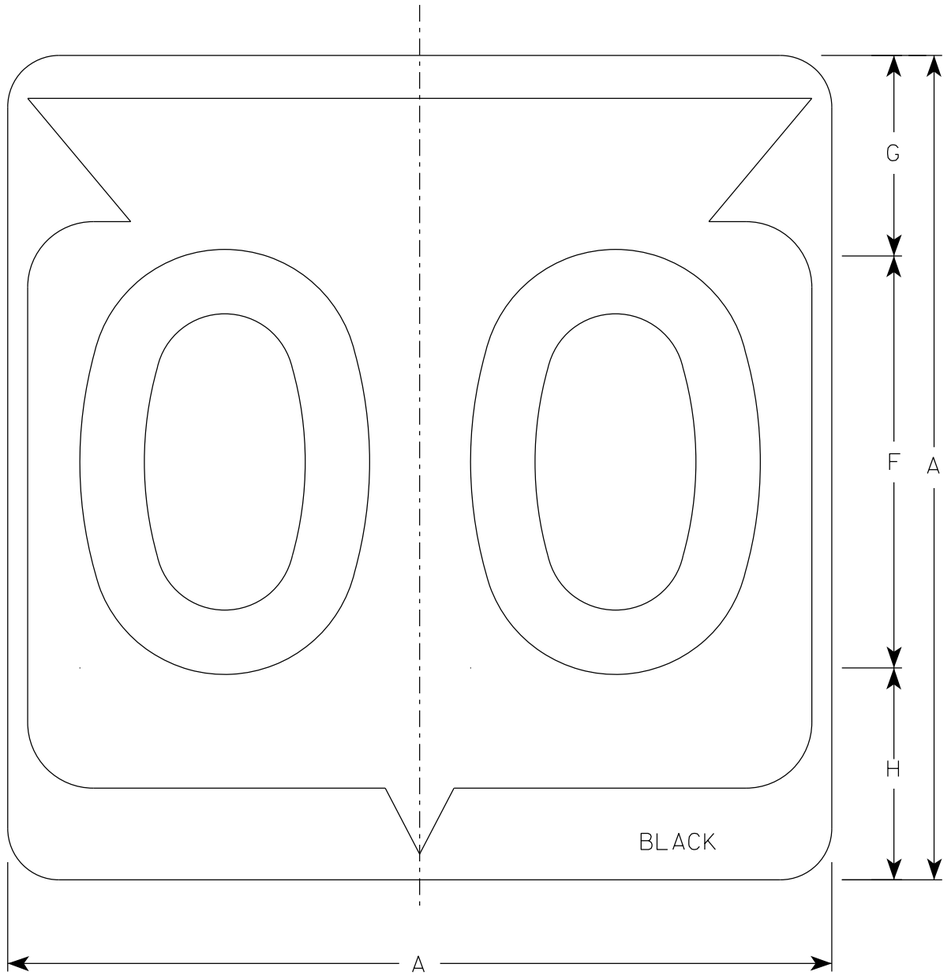
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

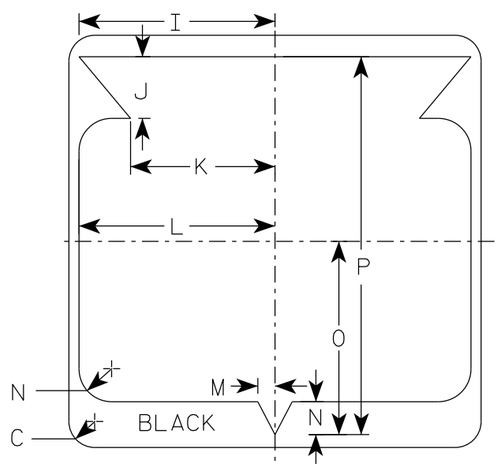
DATE 1/26/2023 PLATE NO. G20-1.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 88	E

7



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

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
2M	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

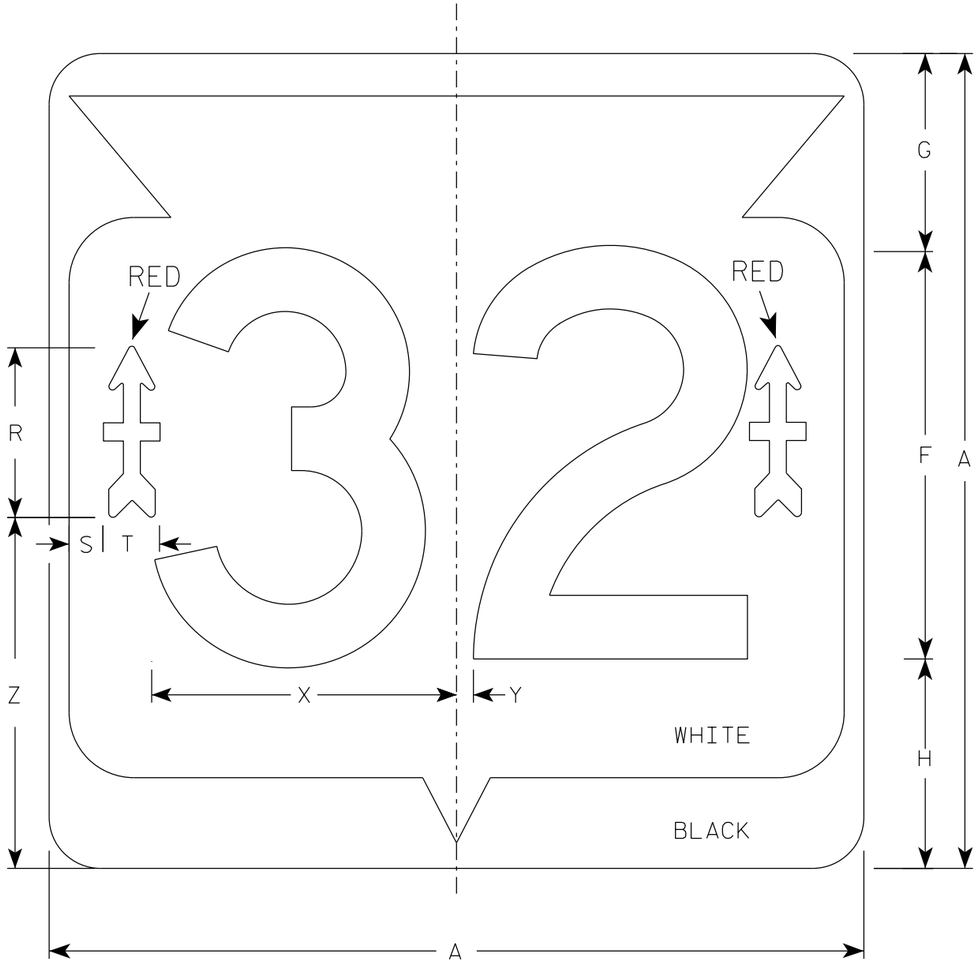
STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/8/2022 PLATE NO. M1-6.11

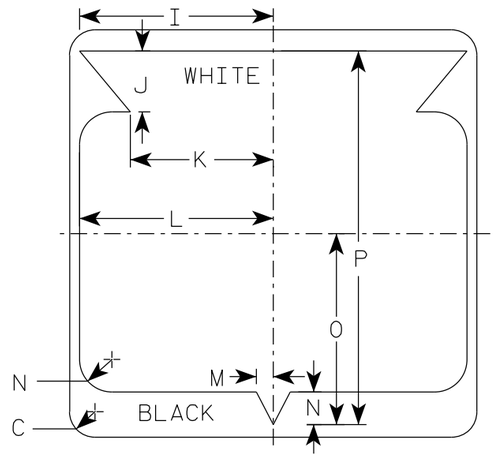
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 89	E



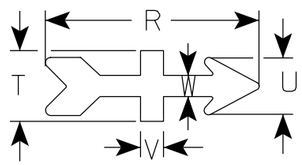
M1-6B

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White & Black
   Message - Black
   Arrow - Red
3. Message Series - D



32nd DIVISION ARROW DETAIL



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 ½			12	5 ½	6 ½	10 ¼	2 ½	8 ⅞	11 ½	1	1 ⅞	11 ¼	21 ⅞		5 ⅛	¾	1 ⅞	1 ½	⅝	⅝	9	½	10 ½	4.0
2M	24		1 ½			12	5 ½	6 ½	10 ¼	2 ½	8 ⅞	11 ½	1	1 ⅞	11 ¼	21 ⅞		5 ⅛	¾	1 ⅞	1 ½	⅝	⅝	9	½	10 ½	4.0
3	36		2 ¼			18	8 ¾	9 ¼	15 ⅜	5 ⅜	12 ⅝	17 ⅛	1 ½	2 ⅞	16 ⅞	33		7 ½	1 ½	2 ½	2	⅞	¾	13 ½	¾	15 ½	9.0
4	36		2 ¼			18	8 ¾	9 ¼	15 ⅜	5 ⅜	12 ⅝	17 ⅛	1 ½	2 ⅞	16 ⅞	33		7 ½	1 ½	2 ½	2	⅞	¾	13 ½	¾	15 ½	9.0
5	36		2 ¼			18	8 ¾	9 ¼	15 ⅜	5 ⅜	12 ⅝	17 ⅛	1 ½	2 ⅞	16 ⅞	33		7 ½	1 ½	2 ½	2	⅞	¾	13 ½	¾	15 ½	9.0

STATE ROUTE MARKER "32"
M1-6B FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

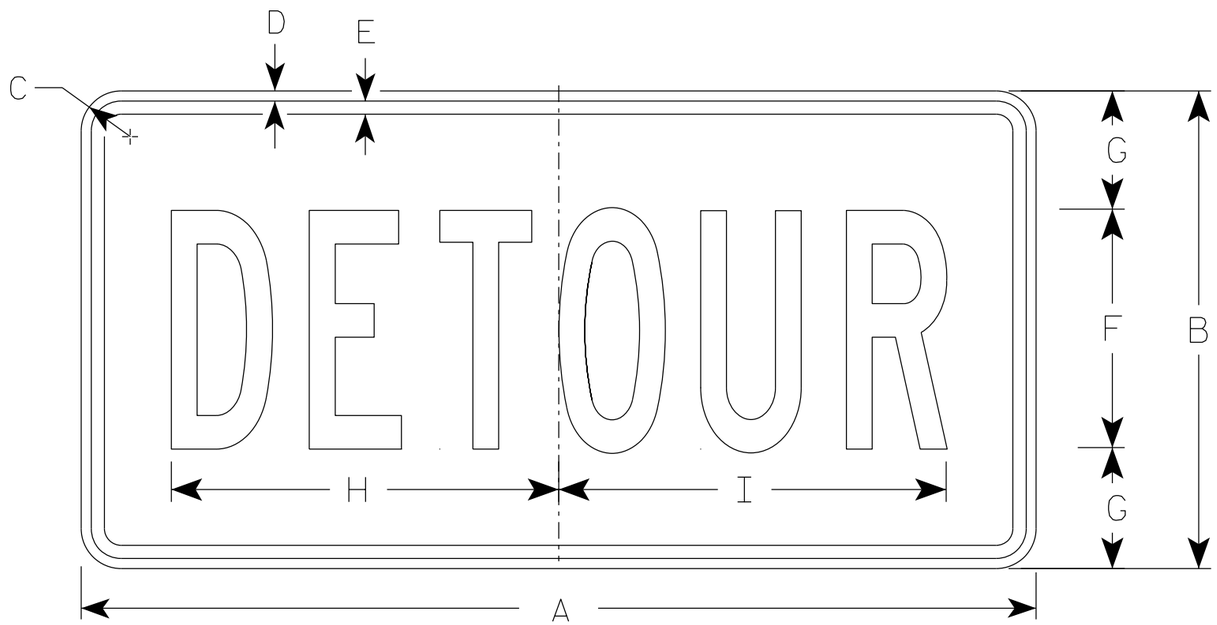
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 11/8/2022 PLATE NO. M1-6B.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 90	E

NOTES

1. Sign is Type II - Type F Reflective
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.



M4-8

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 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
2M	24	12	1 1/2	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
5	36	18	1 1/2	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5

STANDARD SIGN
M4-8

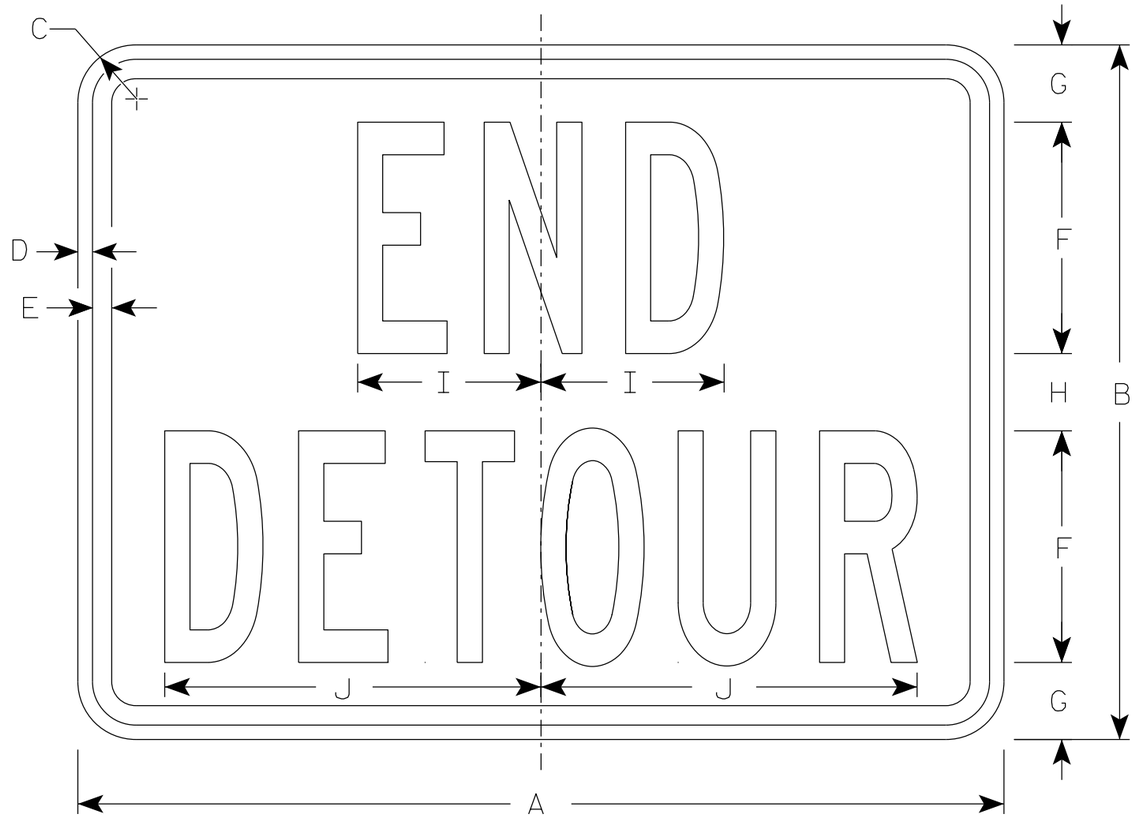
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M48.dgn PLOT DATE : 9-FEB 2023 7:38 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



M4-8A

NOTES

1. Sign is Type II - Type F Reflective
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 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
2M	24	18	1 ½	⅜	½	6	2	2	4 ¾	9 ¾																	3.0
3	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
4	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0
5	30	24	1 ½	⅜	½	8	2 ½	3	6 ¾	13																	5.0

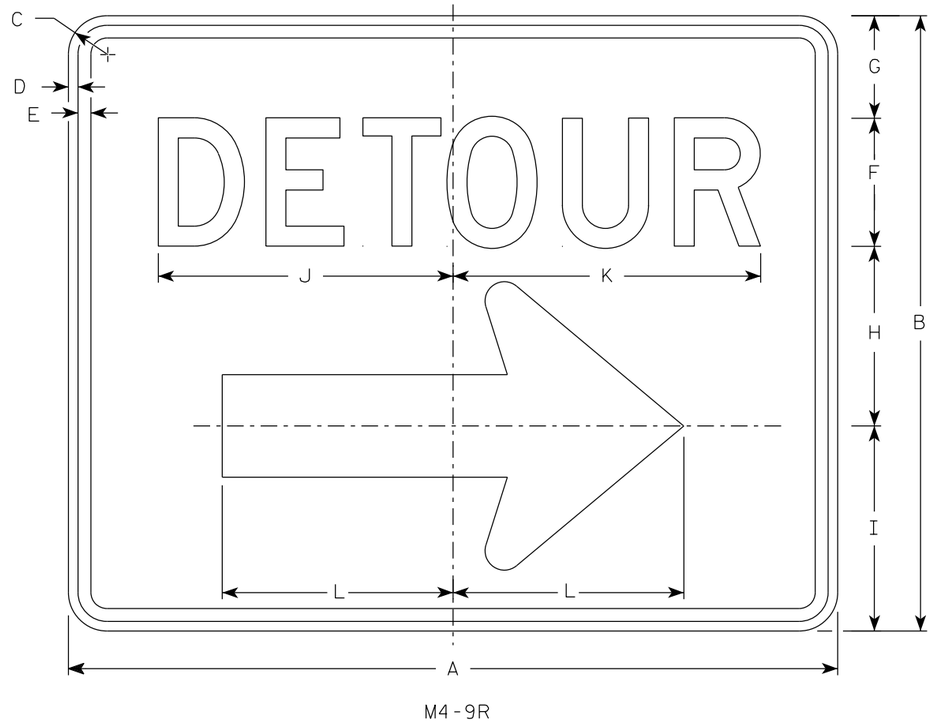
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/2023 PLATE NO. M4-8A.4

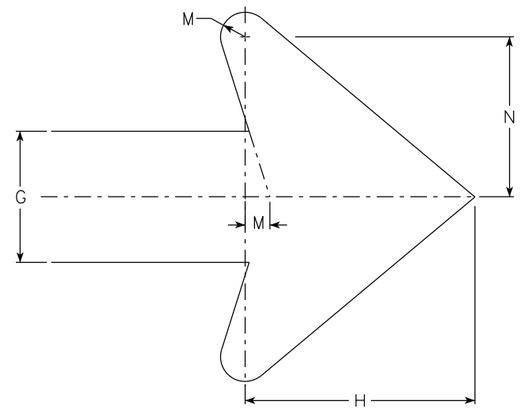
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 92 | E



M4-9R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M4-9L is the same as M4-9R except the arrow is reversed.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
2M	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
3	30	24	1 1/2	3/8	1/2	5	4	7	8	11 1/2	12	9	3/4	4 7/8													5.00
4	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0
5	48	36	1 7/8	1/2	5/8	8	6	10 1/2	11 5/8	20 5/8	20 1/2	13 1/4	1 1/8	6 7/8													12.0

STANDARD SIGN
M4-9 R & L

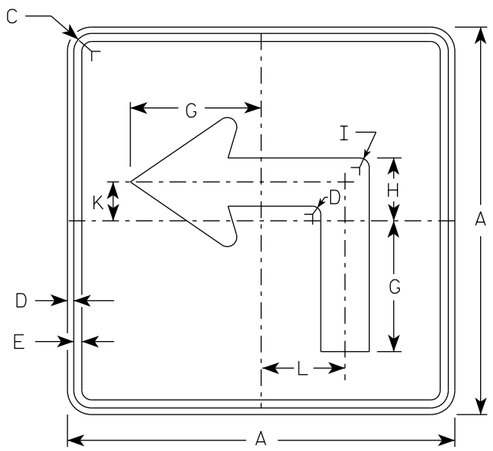
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

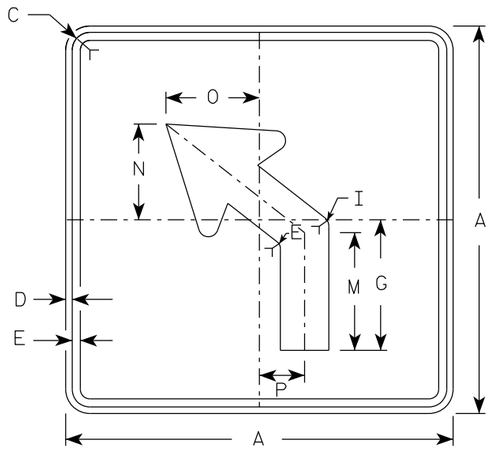
DATE 2/9/2023 PLATE NO. M4-9R.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

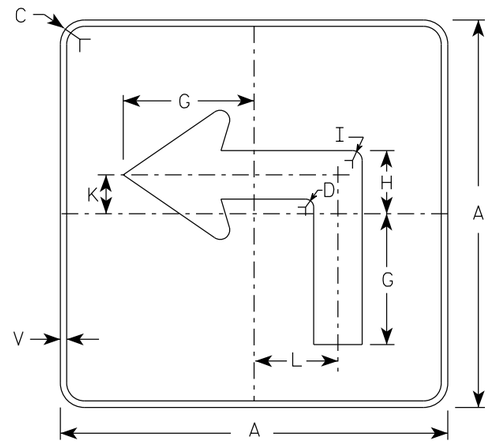
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M49R.dgn PLOT DATE : 21-MARCH 2023 1:40 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



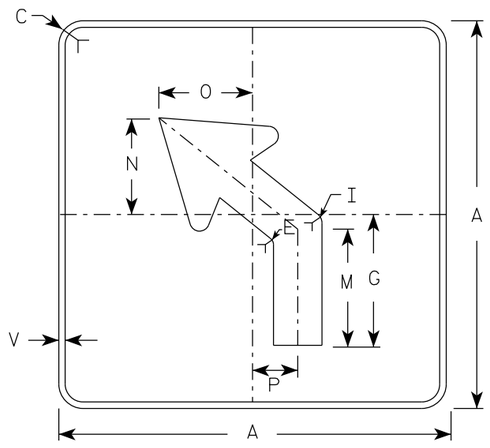
M5-1L
MM5-1L
MO5-1L
MP5-1L



M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L

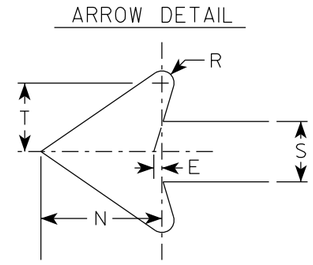


MB5-2L
MK5-2L
MN5-2L
MR5-2L

NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White
   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.

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	21		1 1/2	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		1/2					3.06
2M	21		1 1/2	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		1/2					3.06
3	30		1 7/8	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		1/2					6.25
4	30		1 7/8	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		1/2					6.25
5	30		1 7/8	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		1/2					6.25

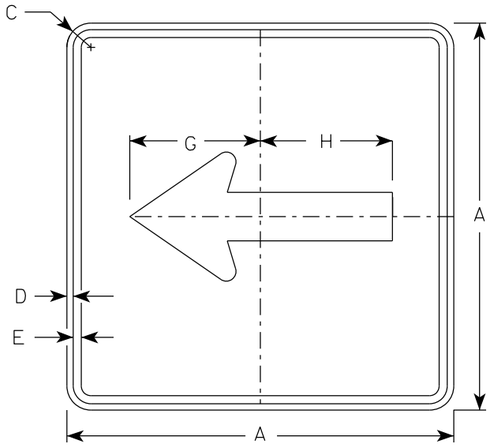
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

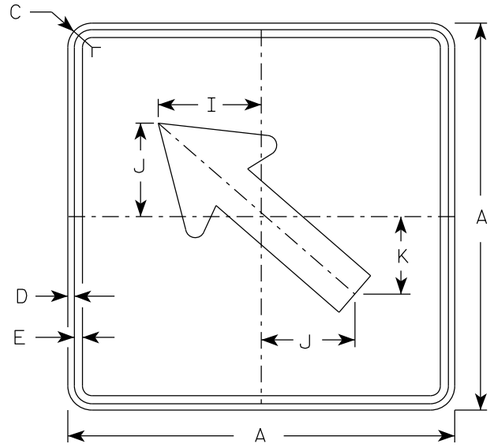
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M5-1.15

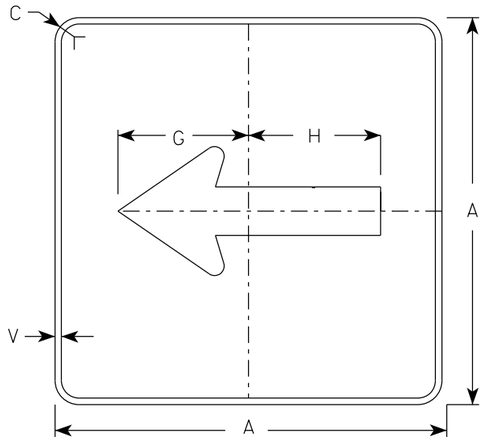
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 94 | E



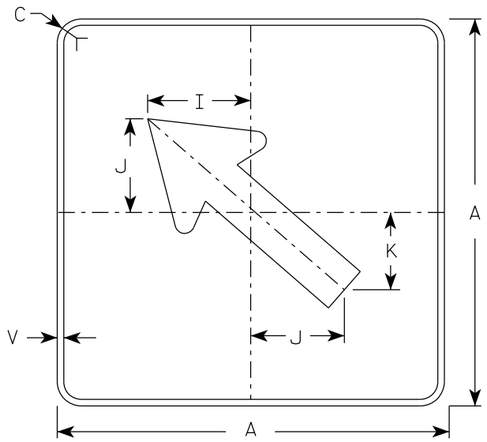
M6-1
MM6-1
MO6-1
MP6-1



M6-2
MM6-2
MO6-2
MP6-2



MB6-1
MK6-1
MN6-1
MR6-1

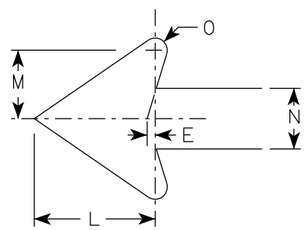


MB6-2
MK6-2
MN6-2
MR6-2

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. 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

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	21		1 1/2	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							1/2					3.06
2M	21		1 1/2	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							1/2					3.06
3	30		1 7/8	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							1/2					6.25
4	30		1 7/8	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							1/2					6.25
5	30		1 7/8	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							1/2					6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

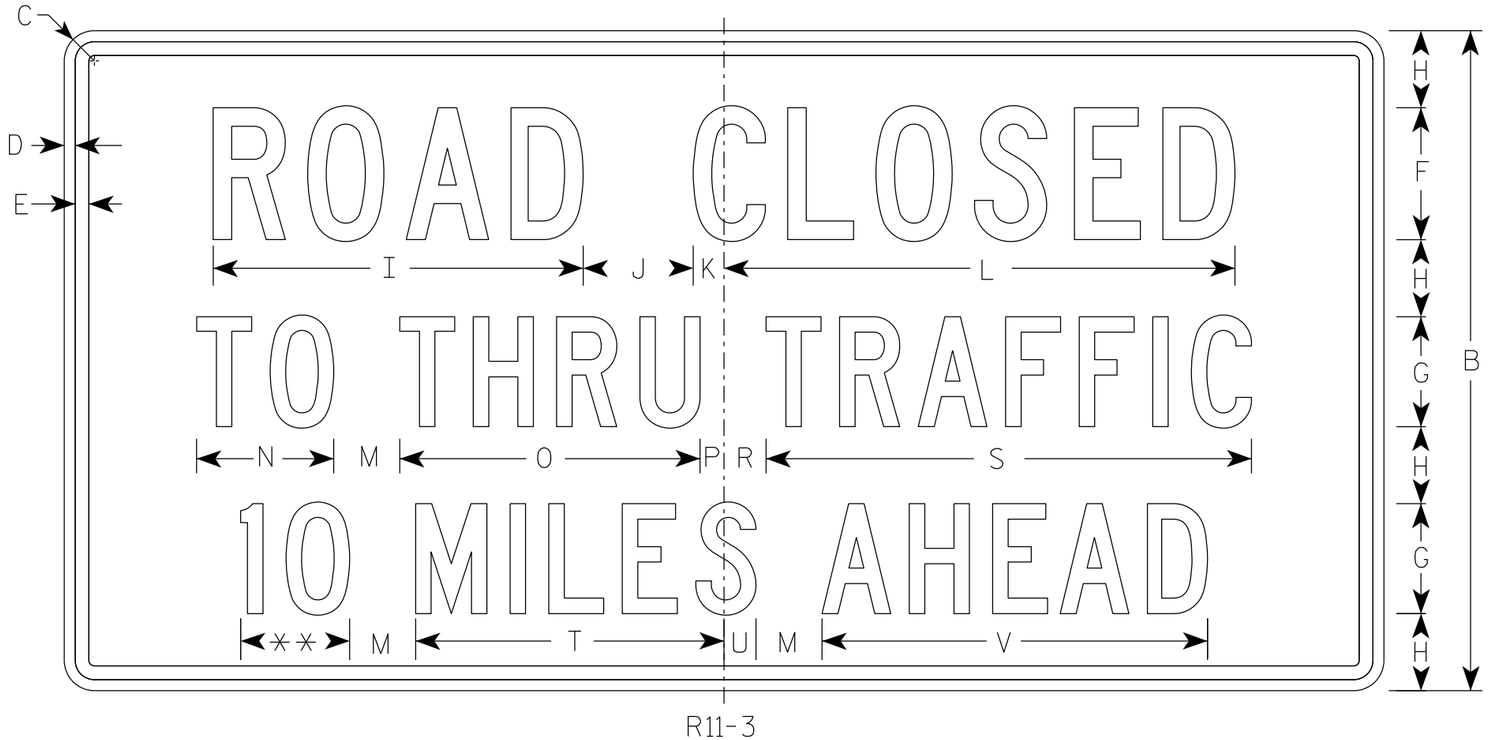
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M6-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 95 | E

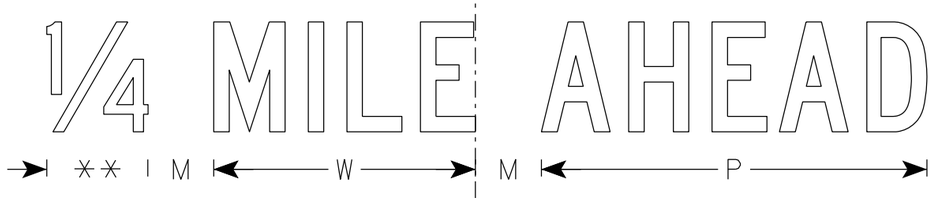
NOTES

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 1/2	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 7/8	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 7/8	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																											

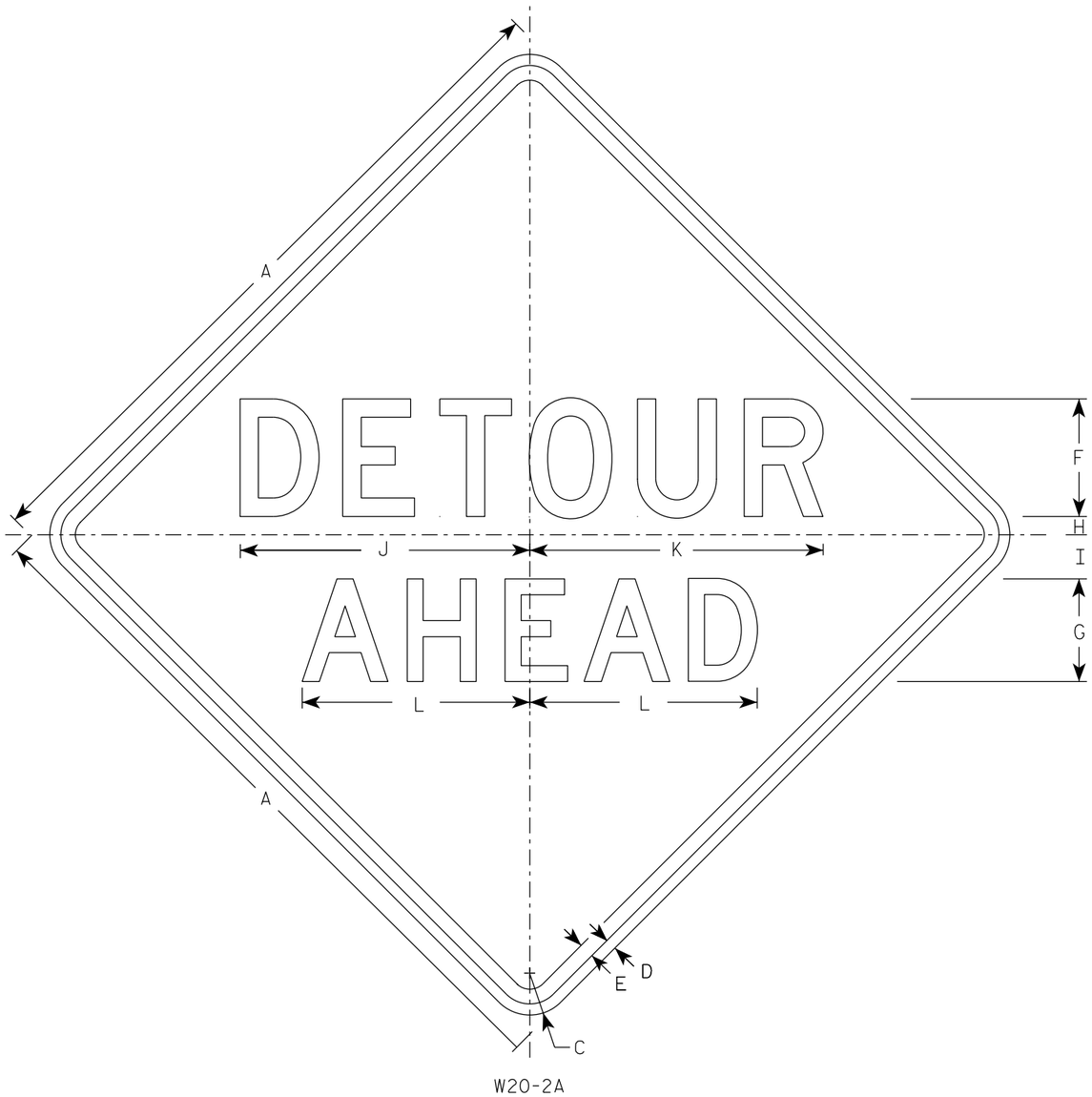
STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

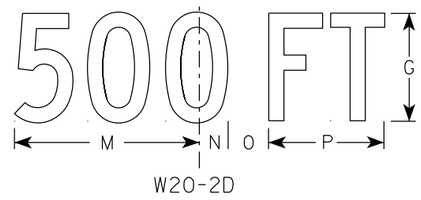
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-3.10

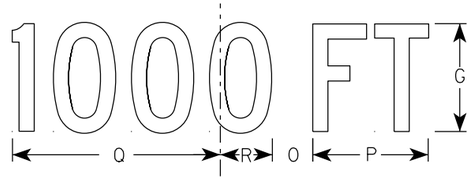
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 96	E



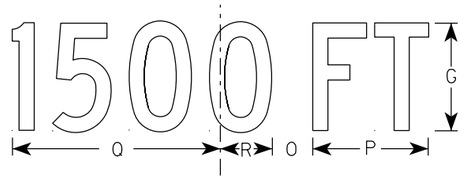
W20-2A



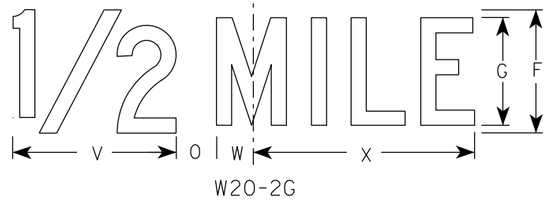
W20-2D



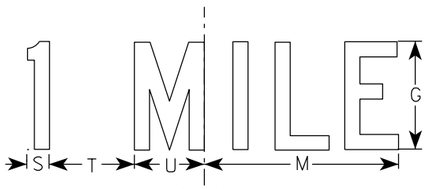
W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective
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	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	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		3	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		3	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		3	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		3	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		3	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

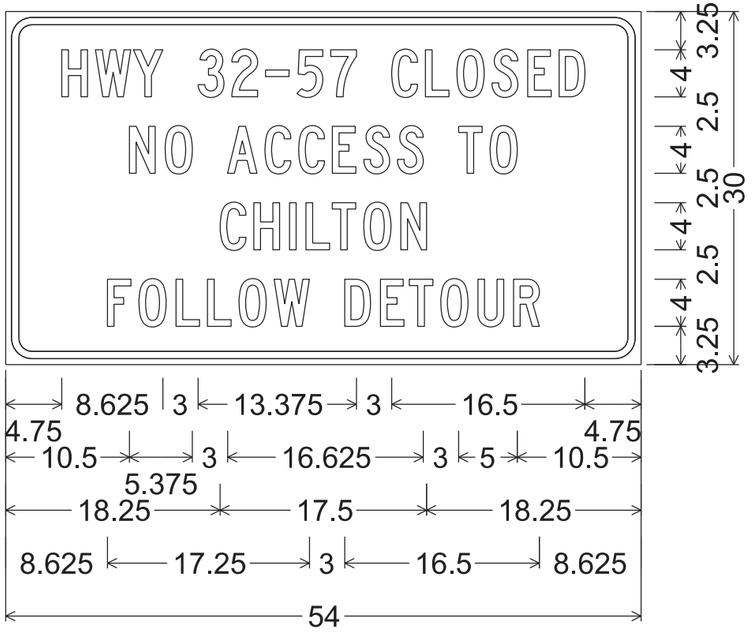
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

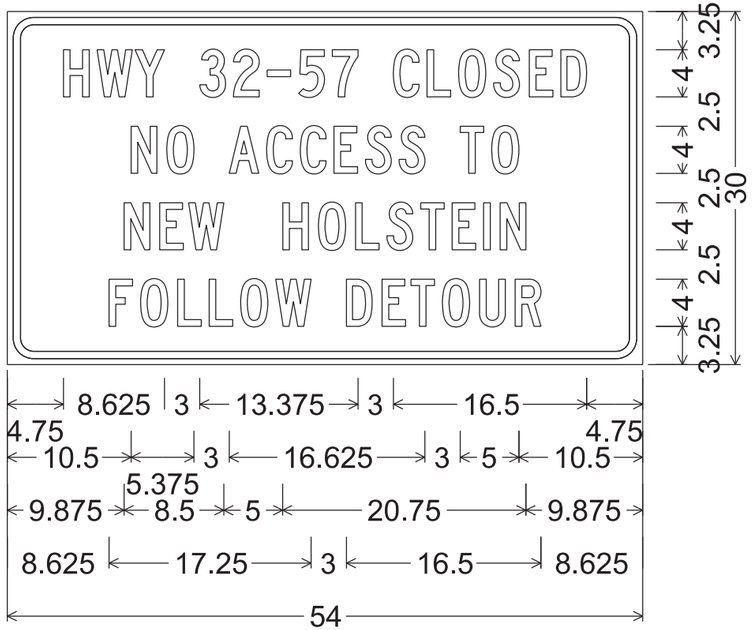
DATE 1/10/2024 PLATE NO. W20-2.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W202.DGN PLOT DATE : 10-JAN 2024 11:36 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



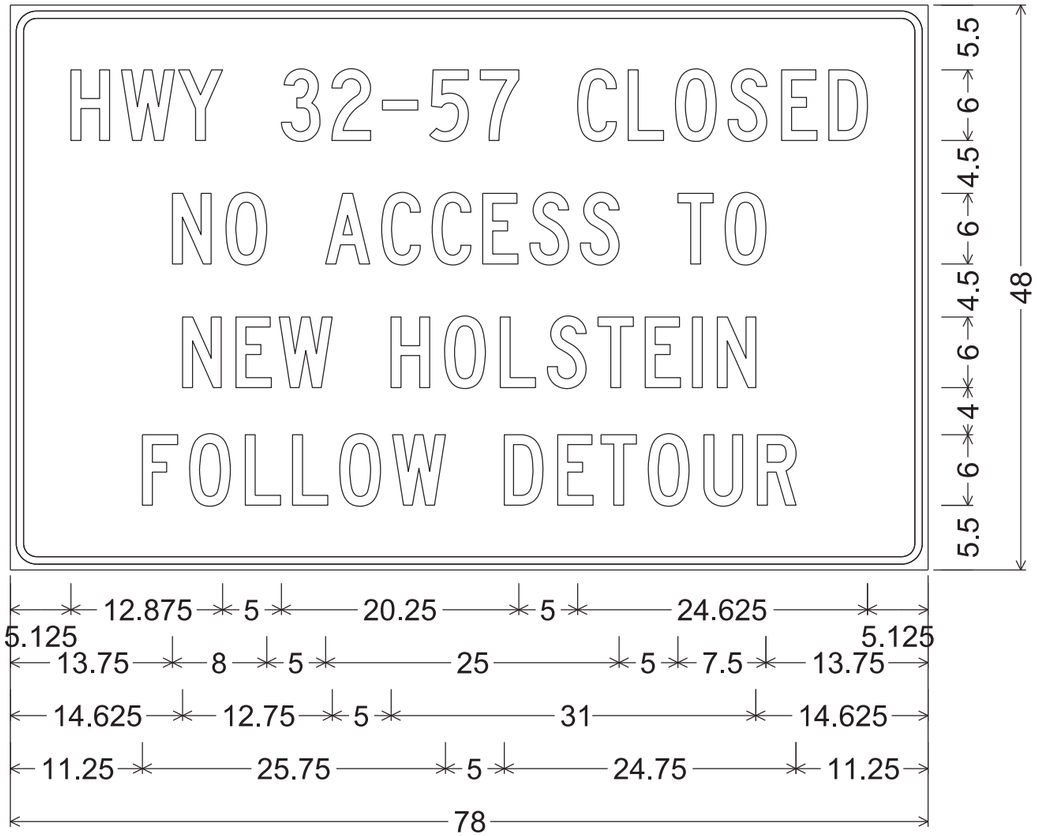
2.250" Radius, 0.625" Border, 0.500" Indent



2.250" Radius, 0.625" Border, 0.500" Indent

NOTES

1. Fixed Message Signs - Type II Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C



2.250" Radius, 0.625" Border, 0.500" Indent

DIVISION 1 - STH 32 DITCH RE-GRADING

STATION	REAL STATION	DISTANCE	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		
			CUT	FILL	CUT	FILL	CUT	EXPANDED FILL	MASS ORDINATE
							1.00	1.30	
					NOTE 1	NOTE 3	NOTE 1		NOTE 8
243+92.775	24347.47	0.00	0.00	0.15	0	0	0	0	0
244+00	24354.69	7.23	0.23	0.06	0	0	0	0	0
244+25	24379.70	25.00	1.19	0.00	1	0	1	0	1
244+50	24404.70	25.00	2.97	0.00	2	0	3	0	3
244+75	24429.70	25.00	7.99	0.00	5	0	8	0	8
245+00	24454.70	25.00	12.32	0.00	9	0	17	0	17
245+25	24479.70	25.00	18.91	0.00	14	0	31	0	31
245+45.51	24500.21	20.51	3.48	37.35	9	14	40	18	22
				COLUMN TOTALS	40	14			

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	[(CUT) - ((FILL) * (FILL FACTOR)]

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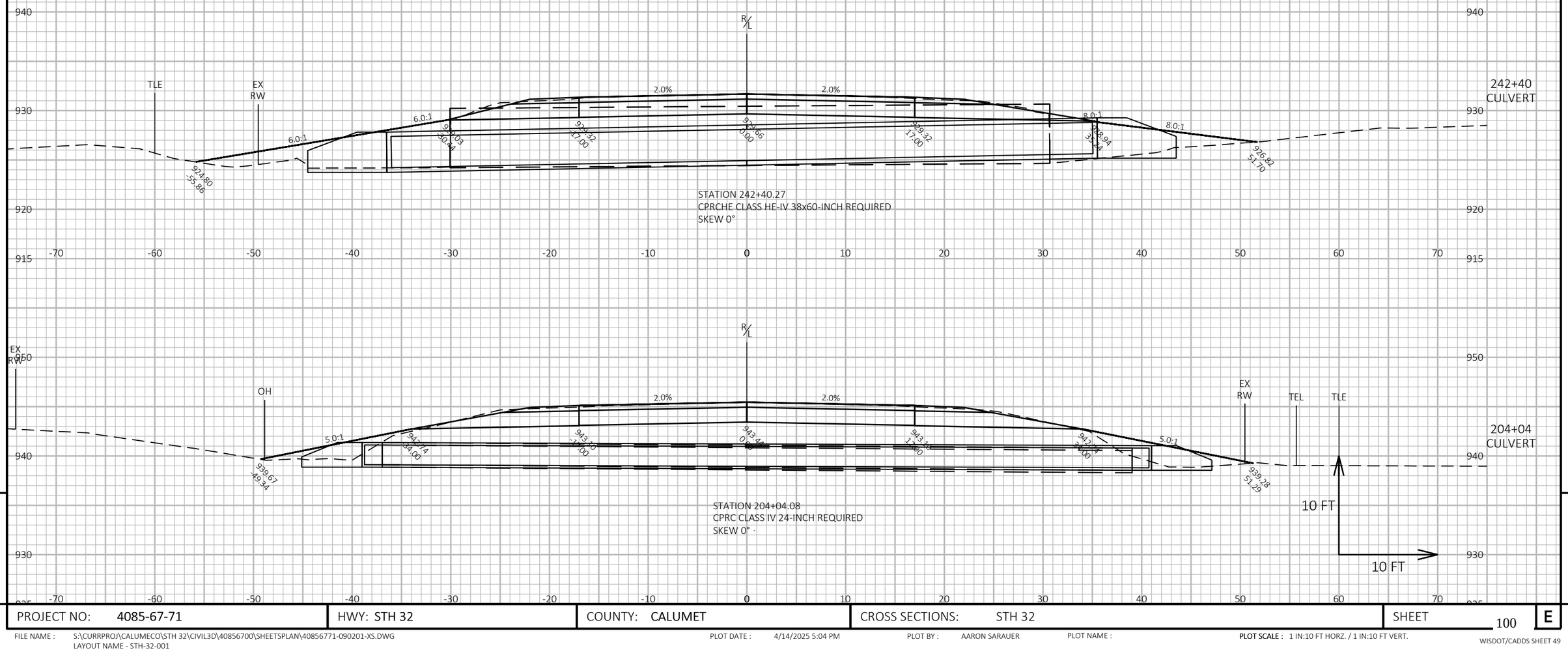
PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	EARTHWORK DATA	SHEET 99	E

FILE NAME : 090101-ew.ppt PLOT DATE: 4/14/2025 4:03 PM PLOT BY : gaajs PLOT SCALE : 1:1

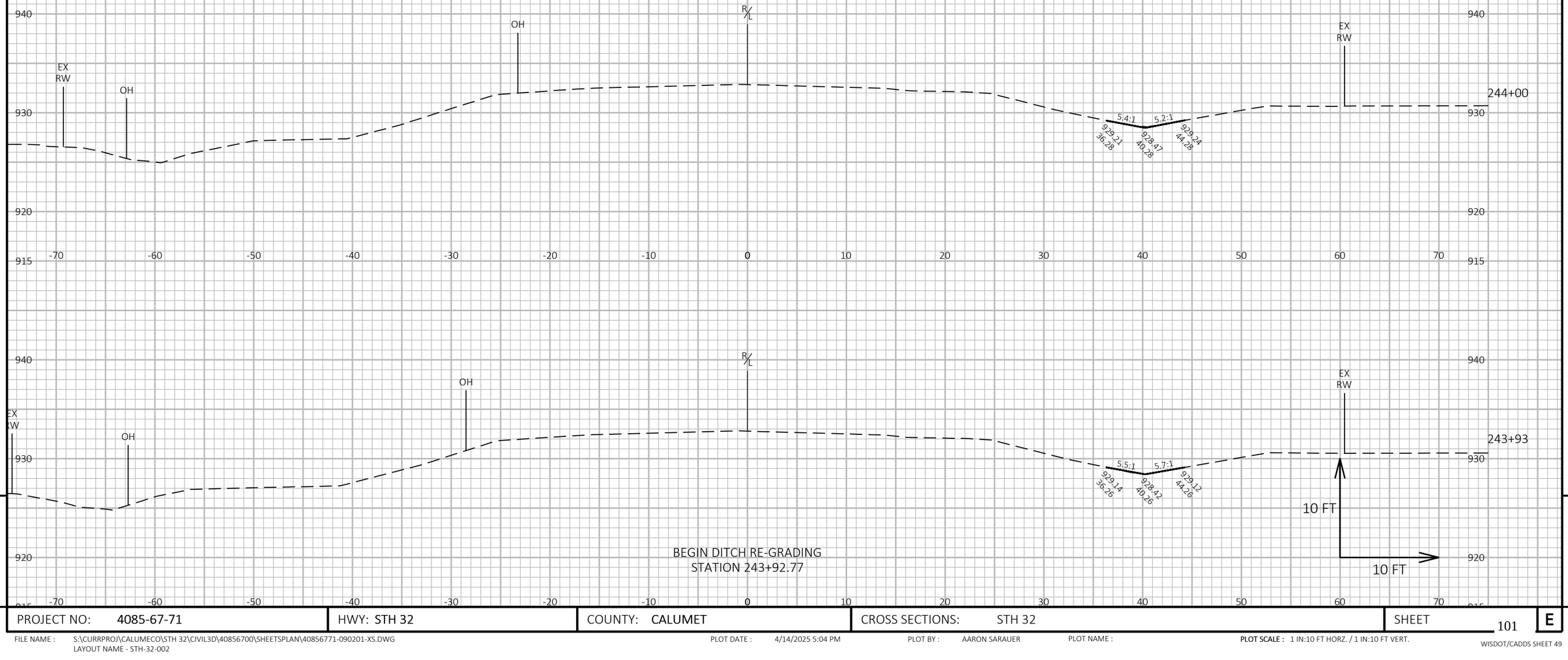


PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	CROSS SECTIONS: STH 32	SHEET 100	E

FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\40856700\SHEETSPLAN\40856771-090201-XS.DWG
LAYOUT NAME - STH-32-001

PLOT DATE : 4/14/2025 5:04 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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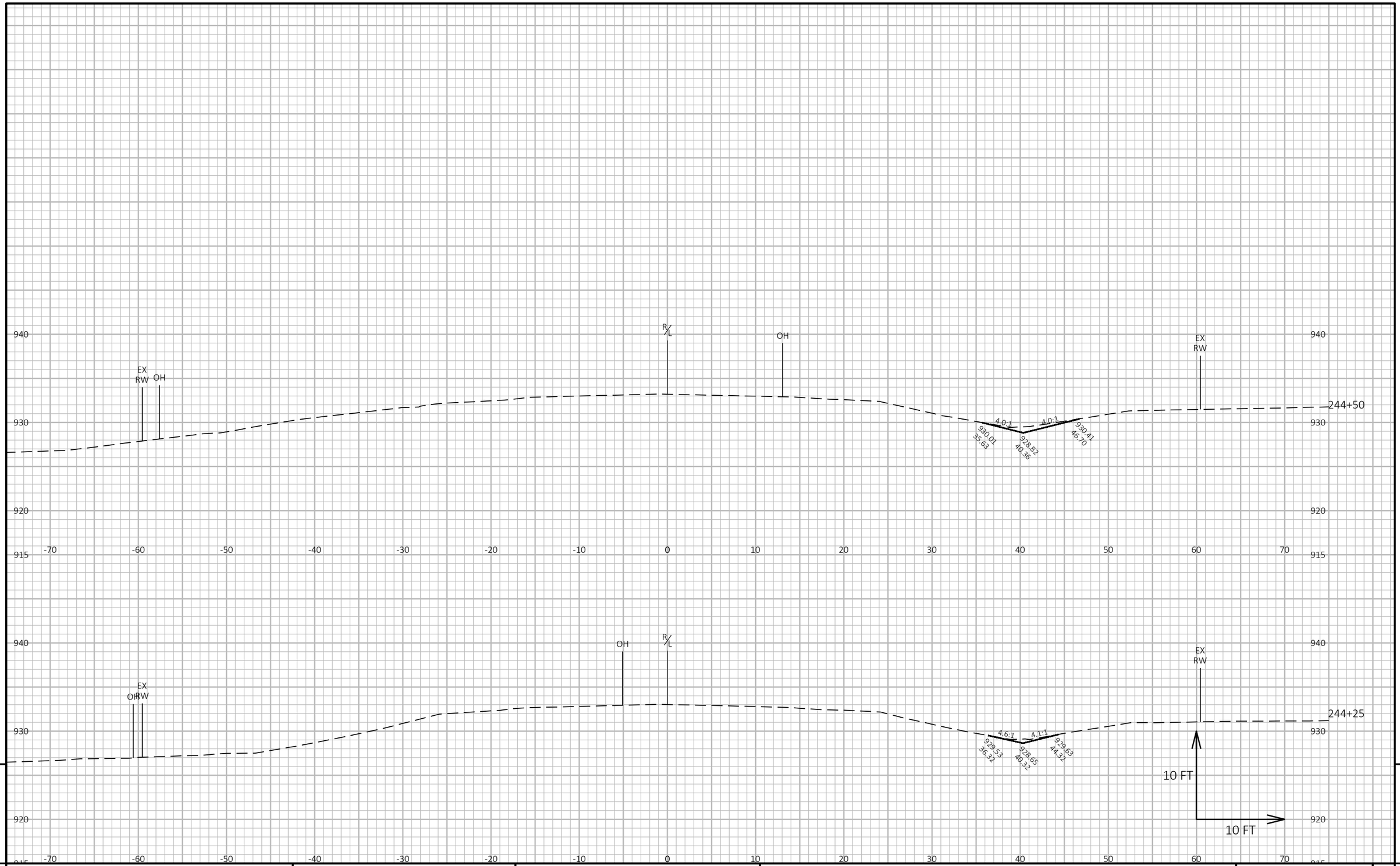
PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	CROSS SECTIONS: STH 32	SHEET 101	E

FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\40856700\SHEETSPLAN\40856771-090201-XS.DWG
LAYOUT NAME - STH-32-002

PLOT DATE : 4/14/2025 5:04 PM PLOT BY : AARON SARAUER PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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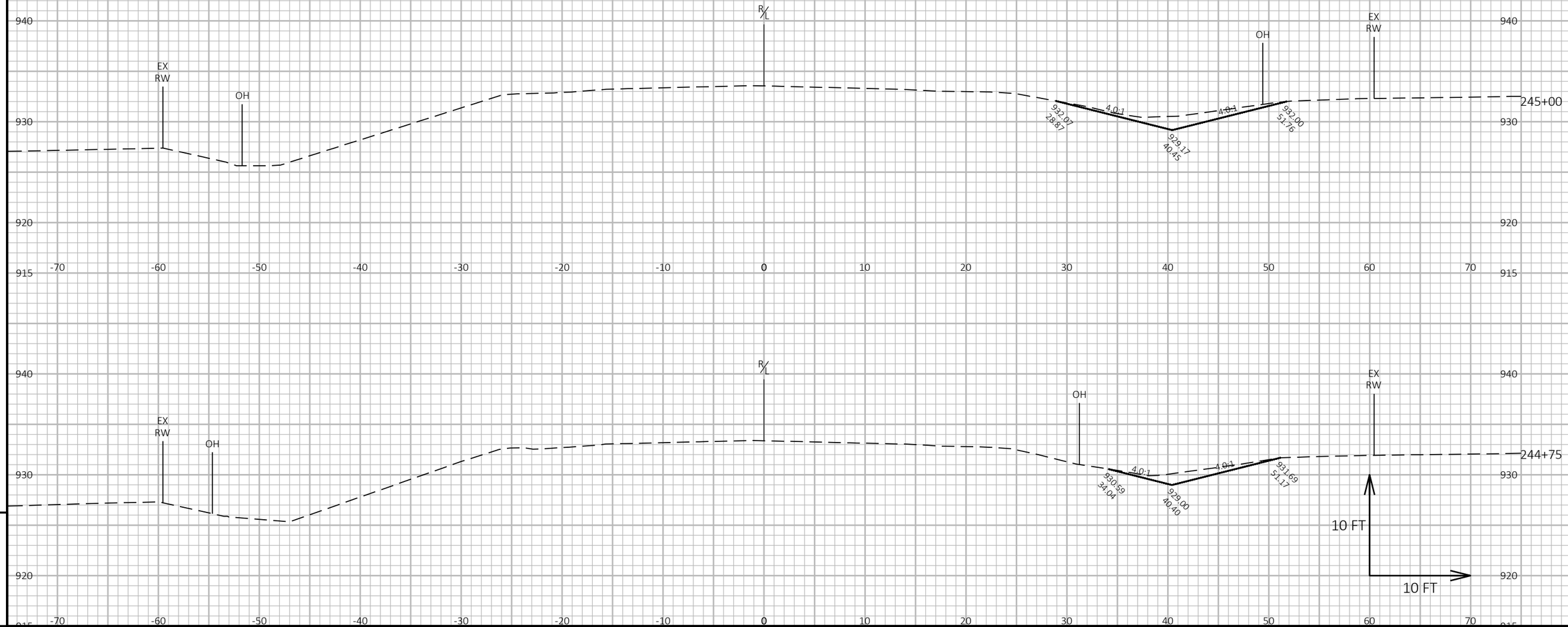
PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	CROSS SECTIONS: STH 32	SHEET 102	E

FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\40856700\SHEETSPLAN\40856771-090201-XS.DWG
LAYOUT NAME - STH-32-003

PLOT DATE : 4/14/2025 5:04 PM PLOT BY : AARON SARAUER PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



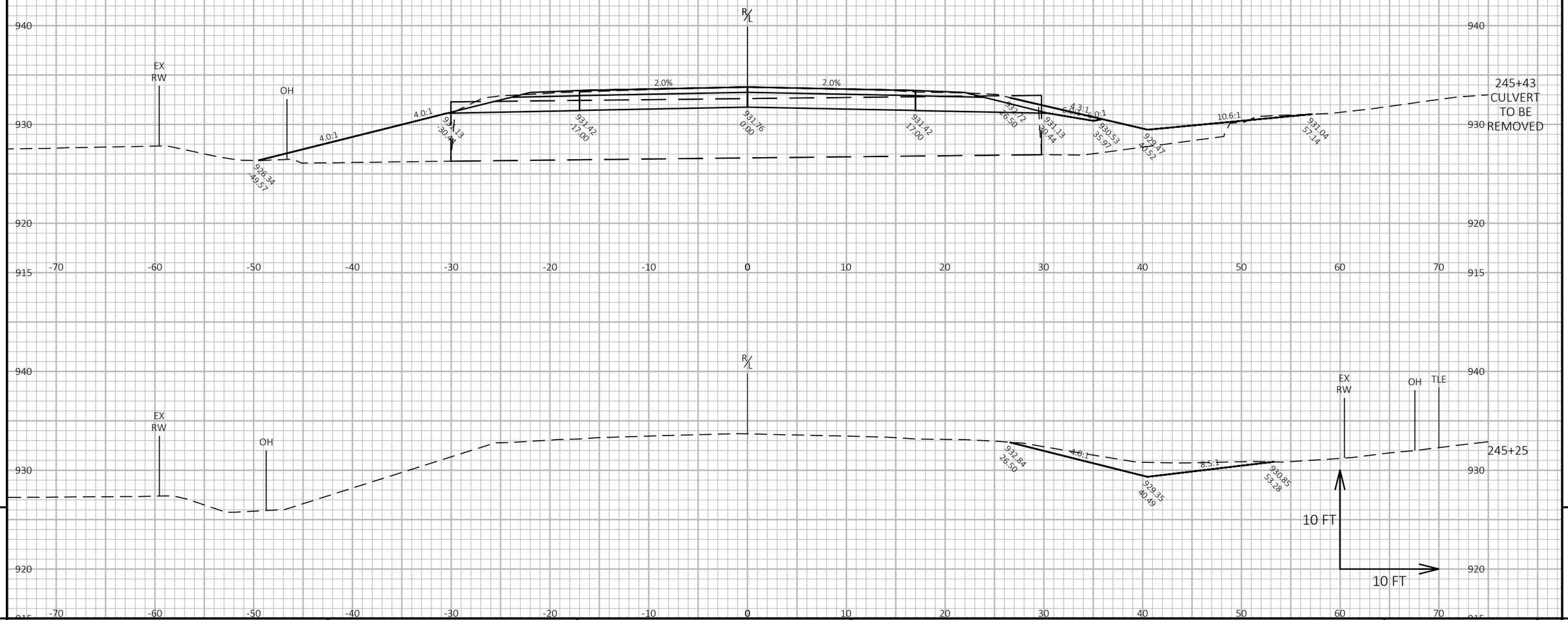
PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	CROSS SECTIONS: STH 32	SHEET 103	E

FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\40856700\SHEETSPLAN\40856771-090201-XS.DWG
LAYOUT NAME - STH-32-004

PLOT DATE : 4/14/2025 5:04 PM PLOT BY : AARON SARAUER PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

END DITCH RE-GRADING
STATION 245+45.51

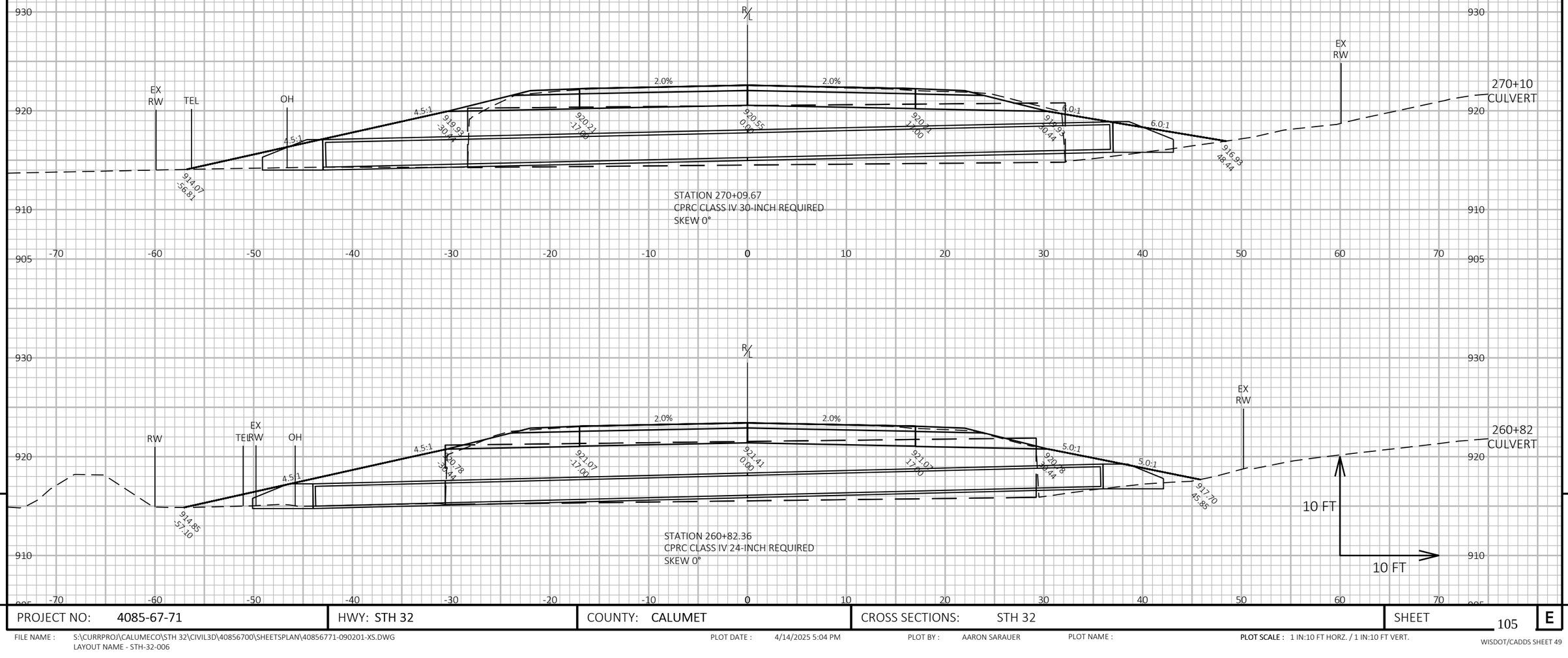


PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	CROSS SECTIONS: STH 32	SHEET 104	E

FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\40856700\SHEETSPLAN\40856771-090201-XS.DWG
LAYOUT NAME - STH-32-005

PLOT DATE : 4/14/2025 5:04 PM PLOT BY : AARON SARAUER PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 4085-67-71	HWY: STH 32	COUNTY: CALUMET	CROSS SECTIONS: STH 32	SHEET 105	E

FILE NAME : S:\CURRPROJ\CALUMECO\STH 32\CIVIL3D\40856700\SHEETSPLAN\40856771-090201-XS.DWG
LAYOUT NAME - STH-32-006

PLOT DATE : 4/14/2025 5:04 PM

PLOT BY : AARON SARAUER

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov