RHI NOVEMBER 2016

PROJECT ID: 1160-00-65
WITH: N/A

COUNTY: PORTAGE & MARATHON

ORDER OF SHEETS

TOTAL SHEETS = 204

N

DESIGN DESIGNATION		PORTAGE COUNTY	MARATHON COUNTY
A.A.D.T. 2019	=	16,300	26,100
A.A.D.T. 2039	=	20,000	33,300
D.H.V.	=	2,280	3,397
D.D.	=	57/43	57/43
T.	=	16.0%	13.5%
DESIGN SPEED	=	70 MPH	70 MPH
ESALS	=	13,000,000	17,000,000

CONVENTIONAL SYMBOLS

- COUNTY LINE
- CORPORATE LIMITS
- PROPERTY LINE
- LIMITED EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- FENCE
- GUARD RAIL
- SLOPE INTERCEPT
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) — ROCK
- WETLAND AREA
- WOODED OR SHRUB AREA
- STREAM OR WATER EDGE
- BUSH
- PINE TREE (SIZE)
- TREE (SIZE)
- TRAFFIC SIGNAL CONTROL CABINET
- TRAFFIC SIGNAL
- TRAFFIC SIGNAL MAST-ARM
- TRAFFIC SIGNAL WITH LIGHT
- EXISTING PULL BOX
- BOLLARD

COMBUSTIBLE FLUIDS

- UNDERGROUND UTILITIES GAS (SIZE) G
- SANITARY SEWER (SIZE) SAN
- STORM SEWER (SIZE) SS
- WATER (SIZE) W
- ELECTRIC E
- TELEPHONE T
- FIBER OPTIC FO
- CABLE TELEVISION TV
- FORCE MAIN FM
- MANHOLE MH
- UTILITY PEDESTAL
- FIBER OPTIC HAND HOLE HH
- POWER POLE
- TELEPHONE POLE
- RAILROAD
- HYDRANT
- LIGHT POLE
- RAILROAD SIGNAL
- SIGN
- TRANSMISSION TOWER
- VALVE (TYPE)
- CURB STOP CS
- EXISTING CULVERT (SIZE, TYPE)
- PROPOSED CULVERT (Box or Pipe)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1160-00-65		

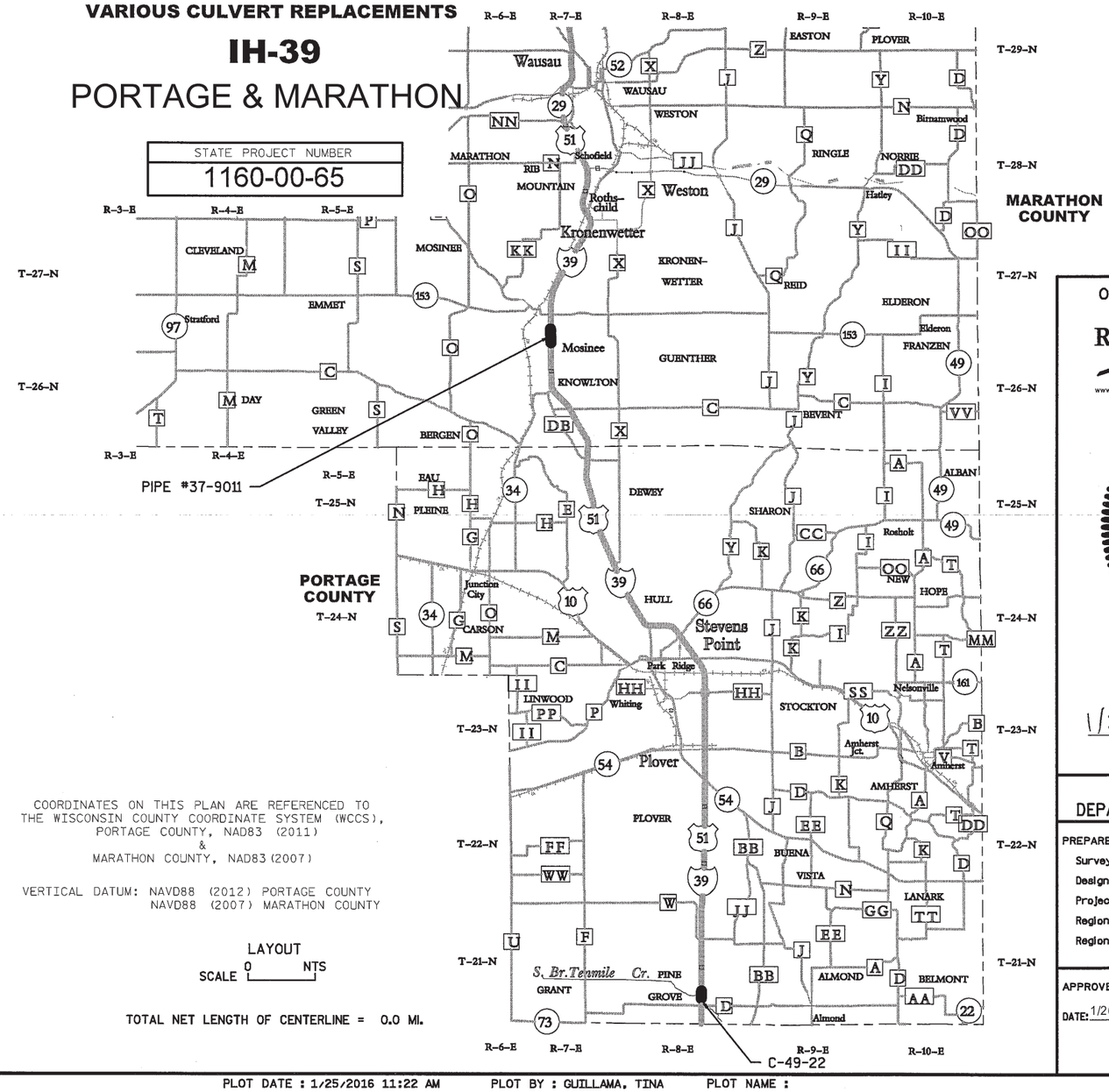
PLAINFIELD - WAUSAU

VARIOUS CULVERT REPLACEMENTS

IH-39

PORTAGE & MARATHON

STATE PROJECT NUMBER
1160-00-65



COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), PORTAGE COUNTY, NAD83 (2011) & MARATHON COUNTY, NAD83 (2007)

VERTICAL DATUM: NAVD88 (2012) PORTAGE COUNTY
NAVD88 (2007) MARATHON COUNTY

LAYOUT
SCALE 0 NTS

TOTAL NET LENGTH OF CENTERLINE = 0.0 MI.

ORIGINAL PLANS PREPARED BY

R.A. Smith National
Beyond Surveying and Engineering
www.rasmithnational.com

WISCONSIN
BRAD E. SEVERSON
37958
APPLETON
WI
PROFESSIONAL ENGINEER

1/25/2016 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	R.A. SMITH NATIONAL
Designer	R.A. SMITH NATIONAL
Project Manager	JED PETERS
Regional Examiner	CHERYL SIMON
Regional Supervisor	ROBIN STAFFORD

APPROVED FOR THE DEPARTMENT
DATE: 1/26/2016 (Signature)

E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\010101_TI.DWG
PLOT DATE : 1/25/2016 11:22 AM
PLOT BY : GUILLAMA, TINA
PLOT NAME :

WISDOT/CADDS SHEET 10

GENERAL NOTES

1 THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS IN THE AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK.

2 SEE SUBSURFACE EXPLORATION REPORTS FOR SOIL BORING INFORMATION. REPORTS ARE AVAILABLE FROM THE WISDOT NC REGION BY CONTACTING JED PETERS, PROJECT MANAGER, PHONE (715) 365-5731.

3 HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS:

THICKNESS	LAYERS	MIX SPECIFICATIONS
7.5-INCH	ONE 2" UPPER LAYER	4 MT 58-28 S
	TWO 2.75" LOWER LAYERS	3 MT 58-28 S
3.5-INCH SHOULDERS	ONE 3.5" UPPER LAYER	4 MT 58-28 S

4 WHEN THE QUANTITY OF ITEMS OF BASE OR SURFACE COURSE IS MEASURED FOR PAYMENT BY THE TON, THE THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

5 STATIONING, DISTANCES AND OFFSETS FOR SIGNS SHOWN ON THE PLANS ARE APPROXIMATE.

ORDER OF SECTION 2 SHEETS

2

UTILITY CONTACTS

WAYNE CRETTON
PACKERLAND BROADBAND - COMMUNICATION LINE
105 KENT ST
P.O. BOX 190
IRON MOUNTAIN, MI 49801
(906) 282-3768
wayne.cretton@plbb.us

MICHAEL ALLAN BOSI
WISCONSIN PUBLIC SERVICE CORPORTATION - GAS/PETROLEUM
1700 SHERMAN STREET
WAUSAU, WI 54402
(715) 848-7471
MABosi@wisconsinpublicservice.com

DENNIS RUESS
WINDSTREAM KDL, INC. - COMMUNICATION LINE
13935 BISHOPS DRIVE
BROOKFIELD, WI 53005
(812) 456-1249
dennis.ruess@windstream.com

CLAYTON VIRCKS
WISCONSIN PUBLIC SERVICE CORPORATION - ELECTRICITY
P.O. BOX 1166
WAUSAU, WI 54402
(715) 848-7317
chvircks@wisconsinpublicservice.com

STEVE JAKUBIEC
MOSINEE TELEPHONE COMPANY D/B/A TDS TELECOM
SUITE 218A
10 COLLEGE AVE
APPLETON, WI 54911
(920) 882-4166
steve.jakubiec@tdstelecom.com

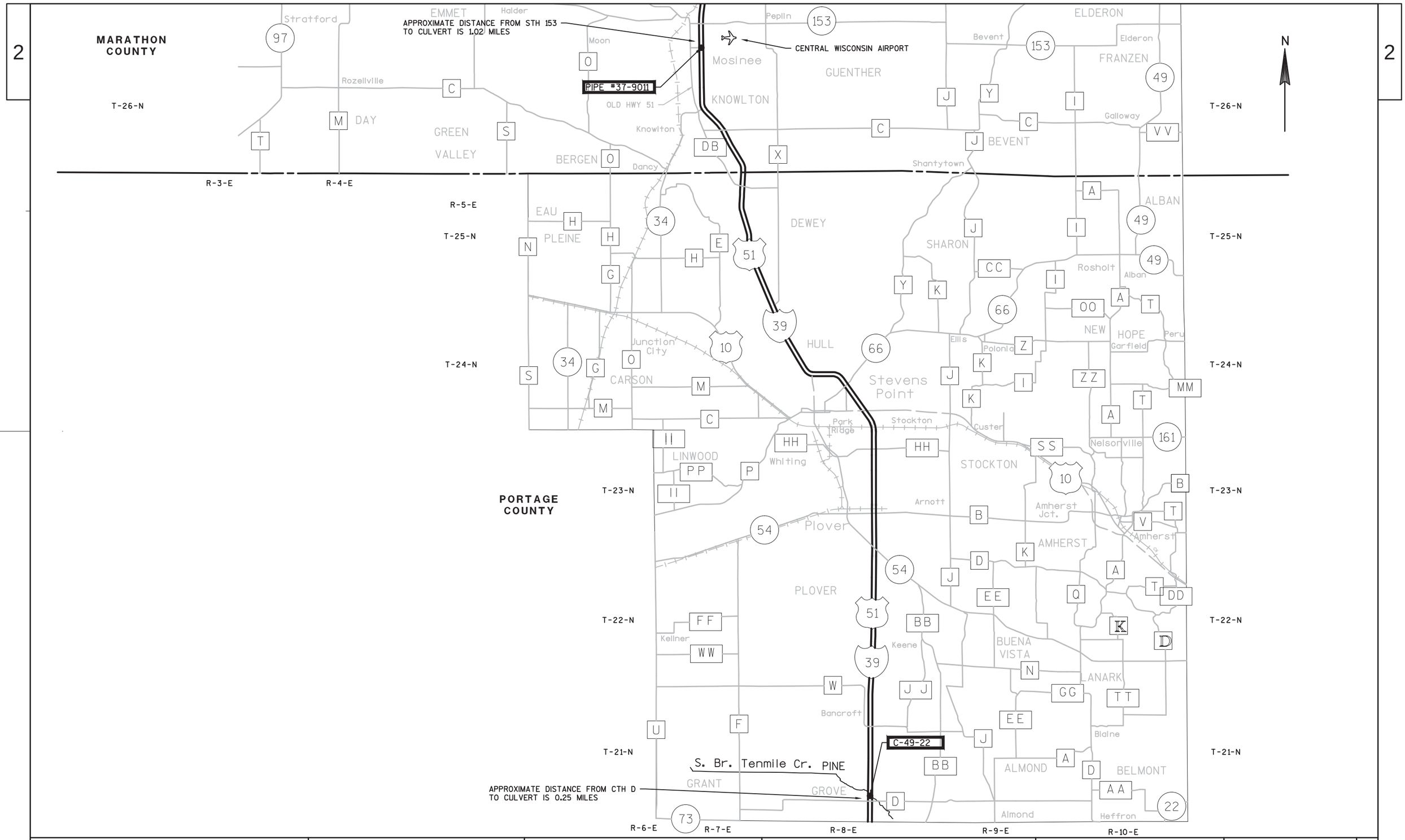
JAMES OLSON
CENTRAL WISCONSIN AIRPORT DIRECTOR
OF OPERATIONS AND MAINTENANCE
200 CWA DRIVE
MOSINEE, WI 54455

DNR LIAISON (ALL COUNTIES)

WIS DNR
473 GRIFFITH AVE
WISCONSIN RAPIDS, WI 54494
MARC HERSHFIELD
(715) 421-7867
Marc.Hershfield@wisconsin.gov

DESIGNER CONTACT

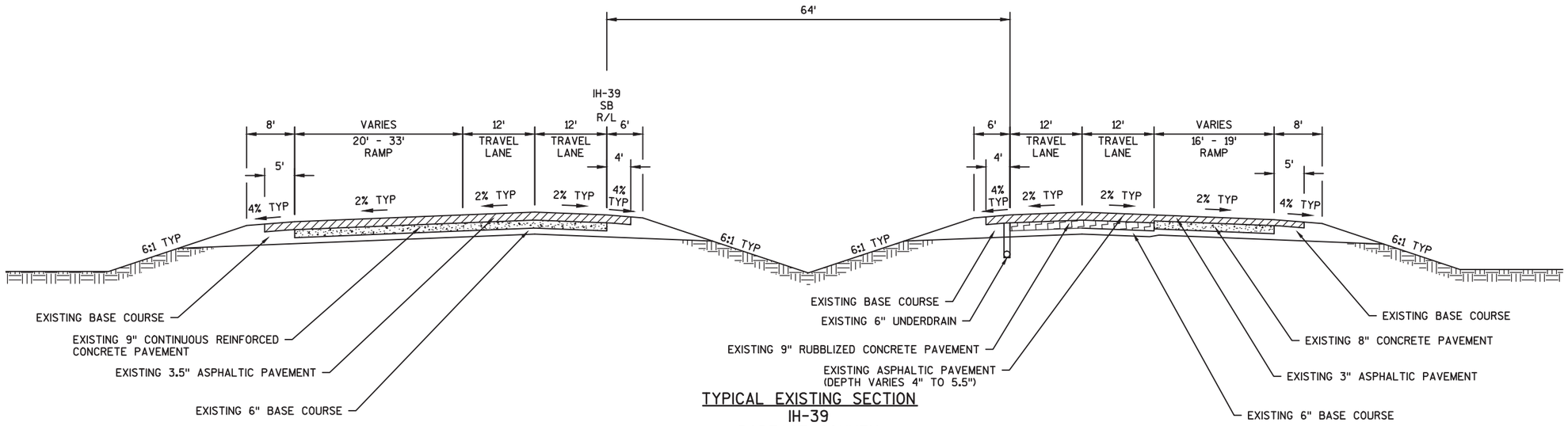
MR. BRAD SEVERSON, P.E.
R.A.SMITH NATIONAL, INC
100 WEST LAWRENCE STREET, SUITE 412
APPLETON, WI 54911
(920) 731-8397, EXT. 3410
brad.severson@rasmithnational.com



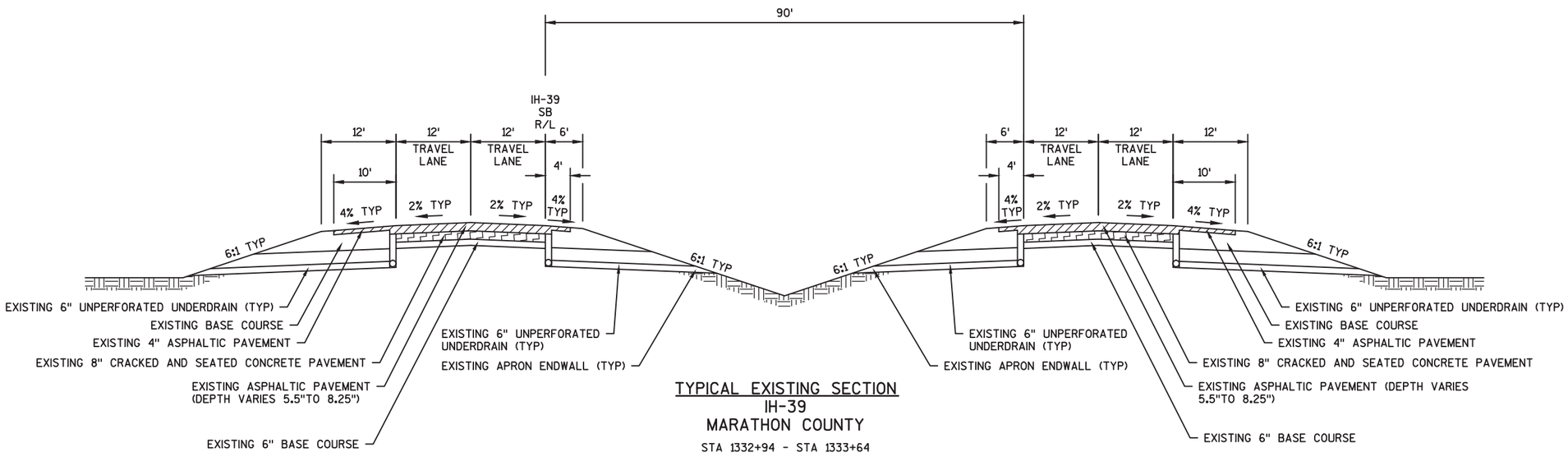
PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: VARIOUS	PROJECT OVERVIEW	SCALE, FEET 0 NTS	SHEET 3	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\020201_PO.DWG PLOT DATE : 9/3/2008 9:36 AM PLOT BY : GUILLAMA, TINA PLOT NAME :

WISDOT/CADDS SHEET 42

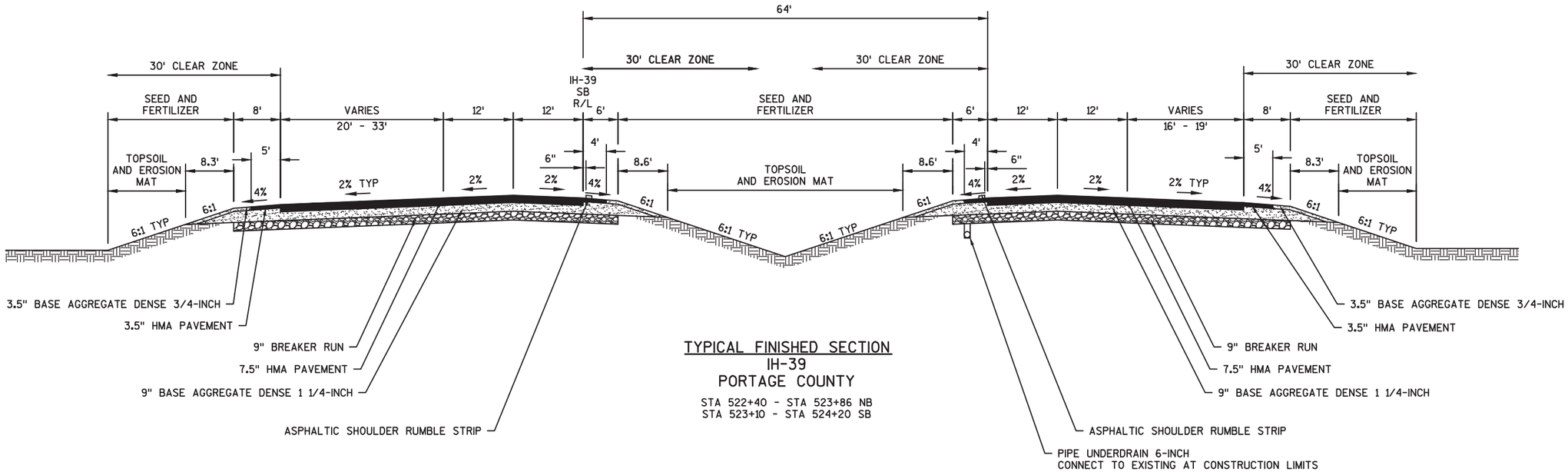


TYPICAL EXISTING SECTION
IH-39
PORTAGE COUNTY
STA 522+40 - STA 524+20



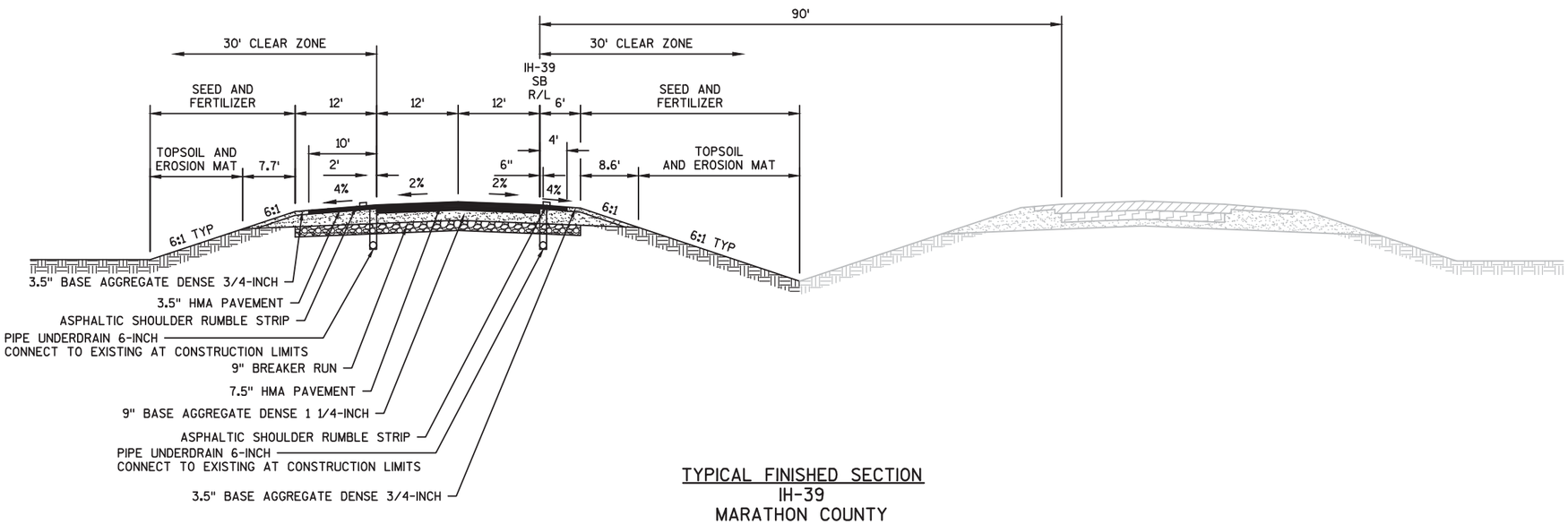
TYPICAL EXISTING SECTION
IH-39
MARATHON COUNTY
STA 1332+94 - STA 1333+64

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: VARIOUS	TYPICAL SECTIONS	SHEET 4	E



TYPICAL FINISHED SECTION
IH-39
PORTAGE COUNTY

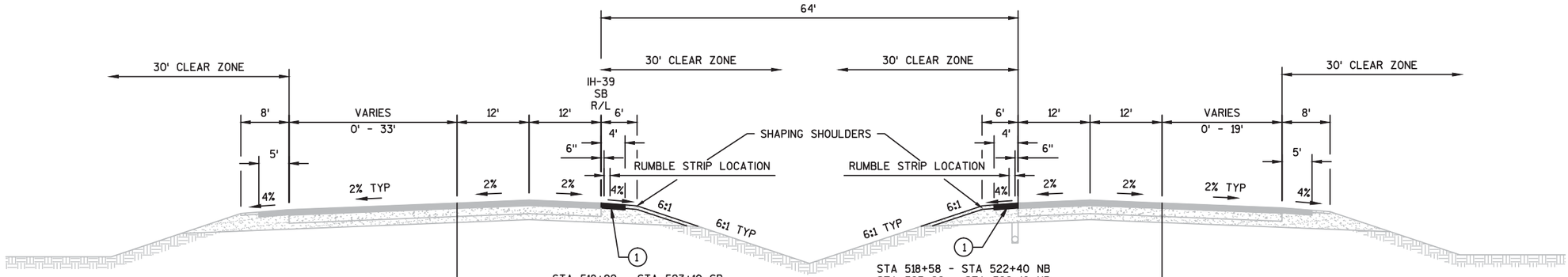
STA 522+40 - STA 523+86 NB
STA 523+10 - STA 524+20 SB



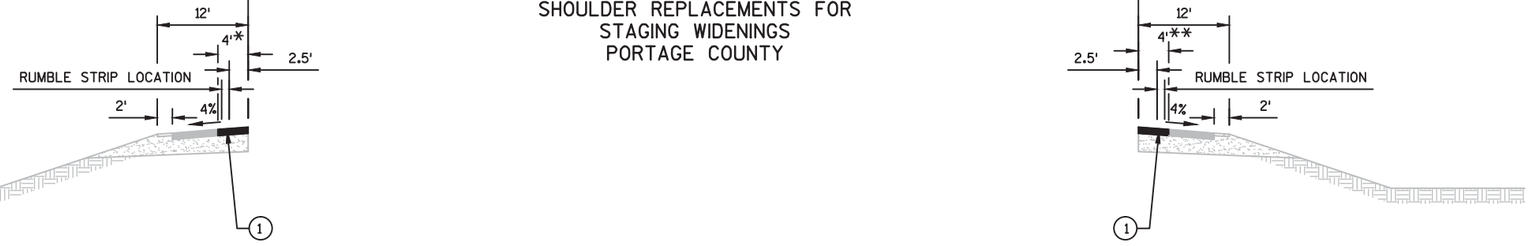
TYPICAL FINISHED SECTION
IH-39
MARATHON COUNTY

STA 1332+94 - STA 1333+64 SB

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: VARIOUS	TYPICAL SECTIONS	SHEET 5	E



TYPICAL FINISHED SECTION
IH-39
SHOULDER REPLACEMENTS FOR
STAGING WIDENINGS
PORTAGE COUNTY

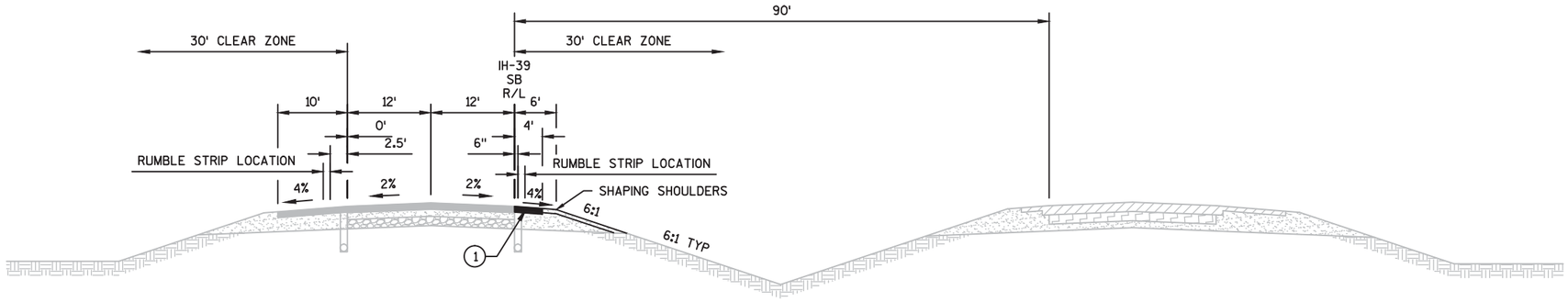


STA 517+81 - STA 520+57
* 10' FROM STA 520+57 - STA 521+64 SB
STA 526+59 - STA 529+35

STA 513+60 - STA 518+54 RT NB
** 10' FROM STA 518+54 - STA 519+32 NB

1 FILL EXISTING RUMBLE STRIPS PRIOR TO SHIFTING TRAFFIC ONTO THE SHOULDERS.

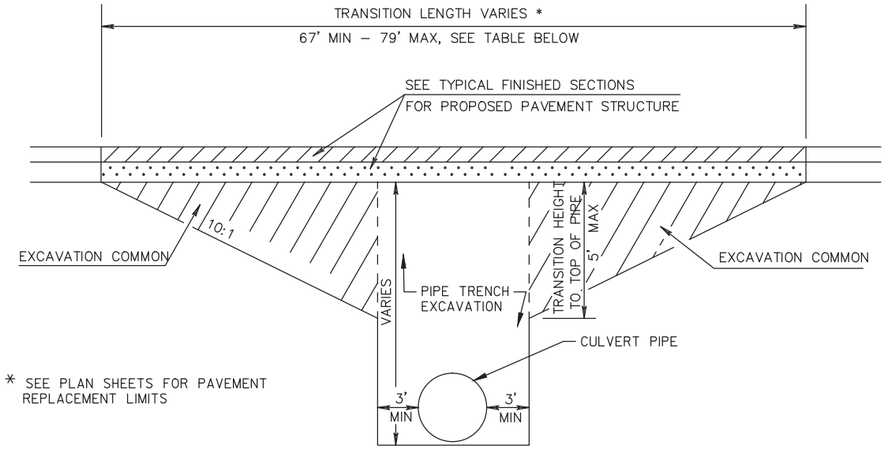
AFTER TRAFFIC IS REMOVED FROM THE SHOULDER, REMOVE ASPHALTIC SURFACE MILLING TO A DEPTH OF 3.5", WIDTH OF 4' AND OVERLAY WITH 3.5" OF HMA PAVEMENT. PLACE ASPHALTIC SHOULDER RUMBLE STRIPS. SEE SDD "ASPHALTIC SHOULDER RUMBLE STRIP MILLING".



TYPICAL FINISHED SECTION
IH-39
SHOULDER REPLACEMENTS FOR
STAGING WIDENINGS
MARATHON COUNTY

STA 1329+05 - STA 1332+94 SB
STA 1333+64 - STA 1345+60 SB

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: VARIOUS	TYPICAL SECTIONS	SHEET 6	E



CULVERT PIPE TRANSITION DETAIL

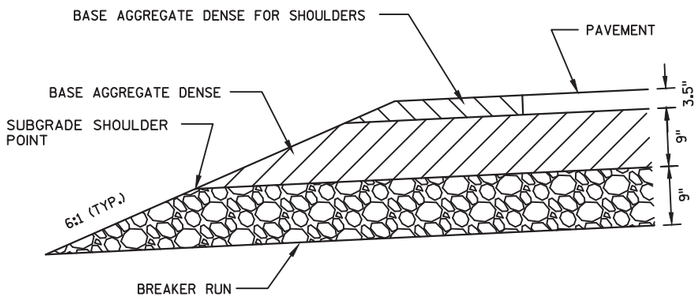
NOTES: MATERIAL REMOVED IN THE TRANSITION CUT AND PIPE TRENCH EXCAVATIONS TO BE REUSED AS BACKFILL UNLESS DETERMINED TO BE UNUSABLE BY THE ENGINEER IN WHICH CASE STRUCTURE BACKFILL WILL BE USED.

TRENCH EXCAVATION IS CONSIDERED INCIDENTAL TO INSTALLATION. TRANSITION CUT WILL BE PAID AS EXCAVATION COMMON.

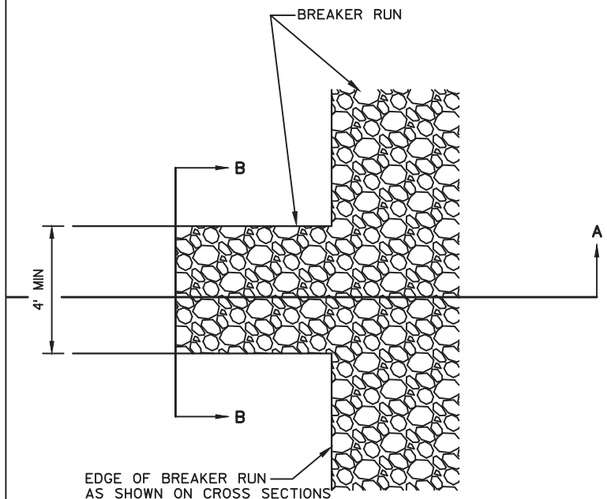
RESTORE WITH TOPSOIL, TEMPORARY SEED, FERTILIZER AND EROSION MAT.

LAYOUT OF TRANSITION LIMIT IS CONSIDERED INCIDENTAL TO SAWING.

CULVERT NO	LOCATION	EXISTING SIZE	PROPOSED SIZE	ROAD CROWN TO TOP OF PIPE, FT	TRANSITION HEIGHT, FT	TRANSITION LENGTH, FT	TRANSITION WIDTH, FT
C-49-22	IH-39 NB PORTAGE COUNTY S BRANCH TENMILE CREEK	2-60"	2-58X91-INCH	3.8'	2.3'	73'	VARIES 58' - 62'
C-49-22	IH-39 SB PORTAGE COUNTY S BRANCH TENMILE CREEK	2-60"	2-58X91-INCH	4.1'	2.6'	79'	VARIES 56' - 71'
C-37-9011	IH-39 SB MARATHON COUNTY	1-42"/72"	42-INCH	4.5'	2.8'	67'	42'

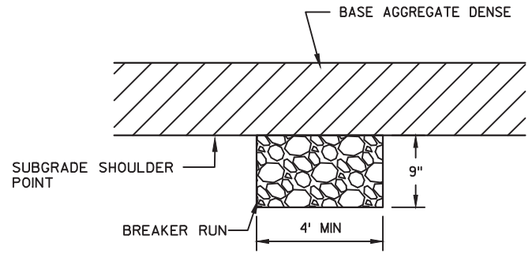


SECTION A–A

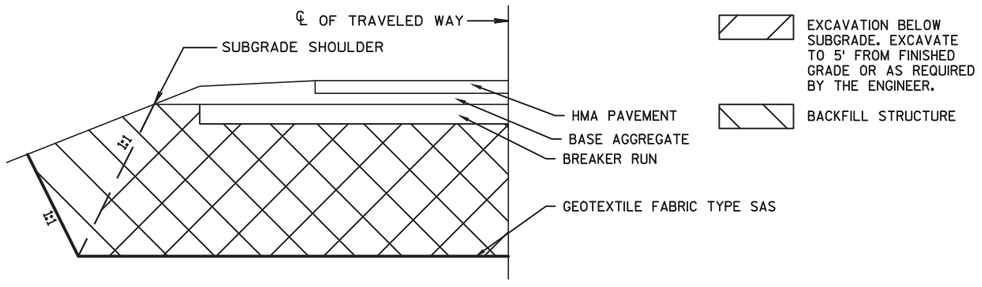


DETAIL FOR SUBGRADE DRAIN

CONSTRUCT DRAINS AT STA 524+20 SB AND AT STA 523+86 NB IN PORTAGE COUNTY AND AT STA 1332+94 IN MARATHON COUNTY



SECTION B–B

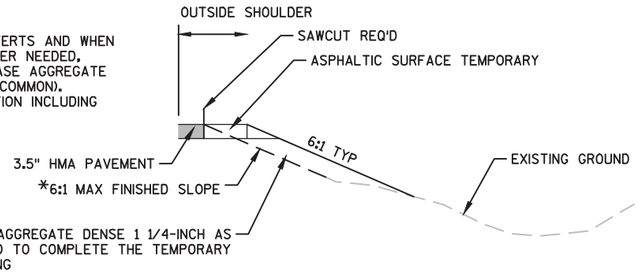


DETAIL FOR EXCAVATION BELOW SUBGRADE

AS DIRECTED BY THE ENGINEER

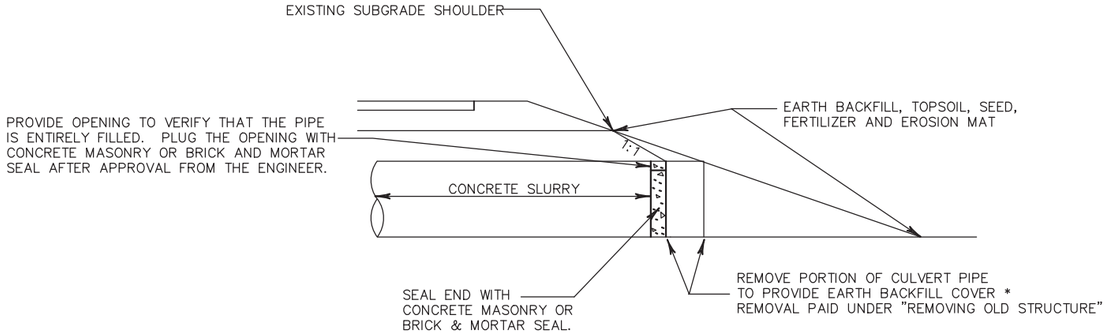
2

* UPON COMPLETION OF PLACING THE NEW CULVERTS AND WHEN THE TEMPORARY SHOULDER WIDENING IS NO LONGER NEEDED, REMOVE ASPHALTIC SURFACE TEMPORARY AND BASE AGGREGATE 1 1/4-INCH MATERIAL (PAID FOR AS EXCAVATION COMMON). RESTORE OUTSIDE SHOULDER TO ORIGINAL CONDITION INCLUDING TOPSOIL, SEED, FERTILIZER AND EROSION MAT.



TEMPORARY SHOULDER WIDENING DETAIL

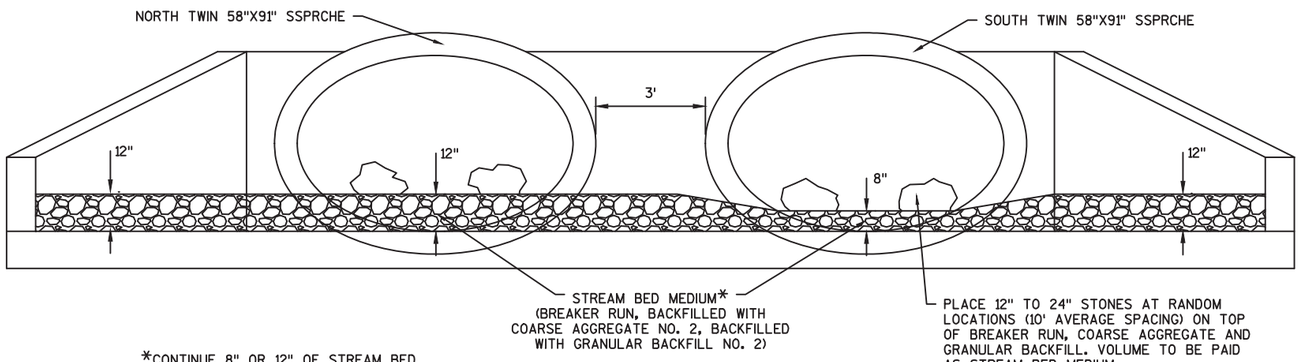
STA 518+92 - STA 529+35 SB PORTAGE CO
STA 520+13 - STA 524+94 NB PORTAGE CO
STA 1330+60 - STA 1344+28 SB MARATHON CO



ABANDONING CULVERT PIPES SPECIAL DETAIL

PORTAGE COUNTY

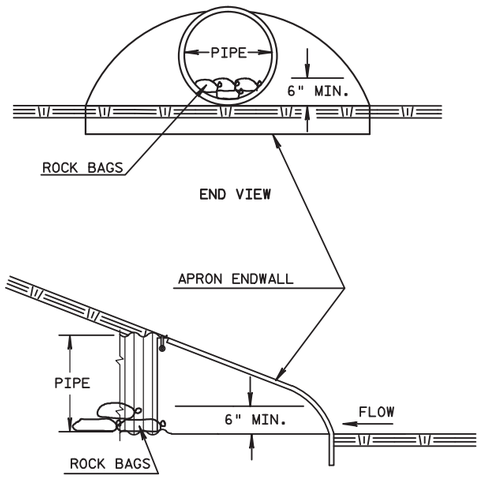
STA 522+79, 27' RT
STA 523+37, 77' LT



*CONTINUE 8" OR 12" OF STREAM BED MEDIUM THROUGH PIPES, MEDIAN INLET STRUCTURE, AND ON FLAT APRON OF MASONRY ENDWALLS

STREAM BED MEDIUM

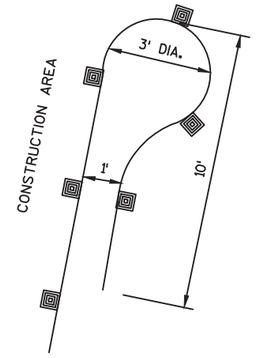
S BRANCH TENMILE CREEK



CULVERT PIPE DITCH CHECK

PORTAGE COUNTY
STA 520+18 LT

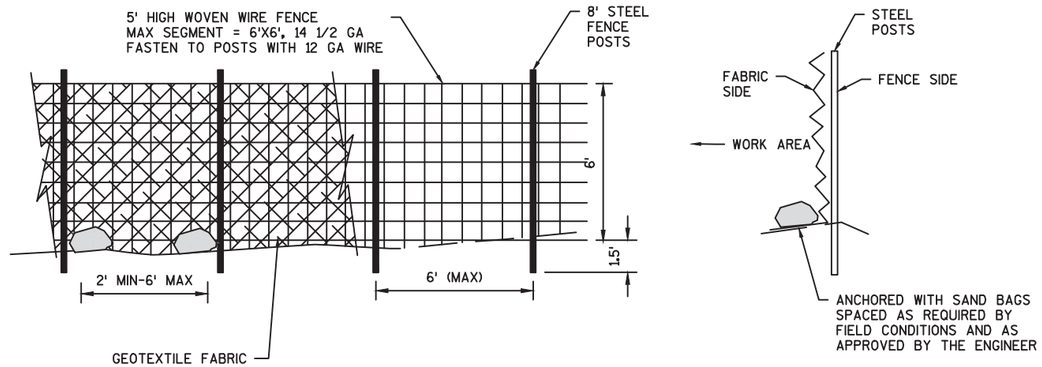
MARATHON COUNTY
STA 1333+29 LT



REPTILE EXCLUSION SILT FENCE DETAIL

PORTAGE COUNTY

SILT FENCE ENDS ADJACENT TO WETLANDS

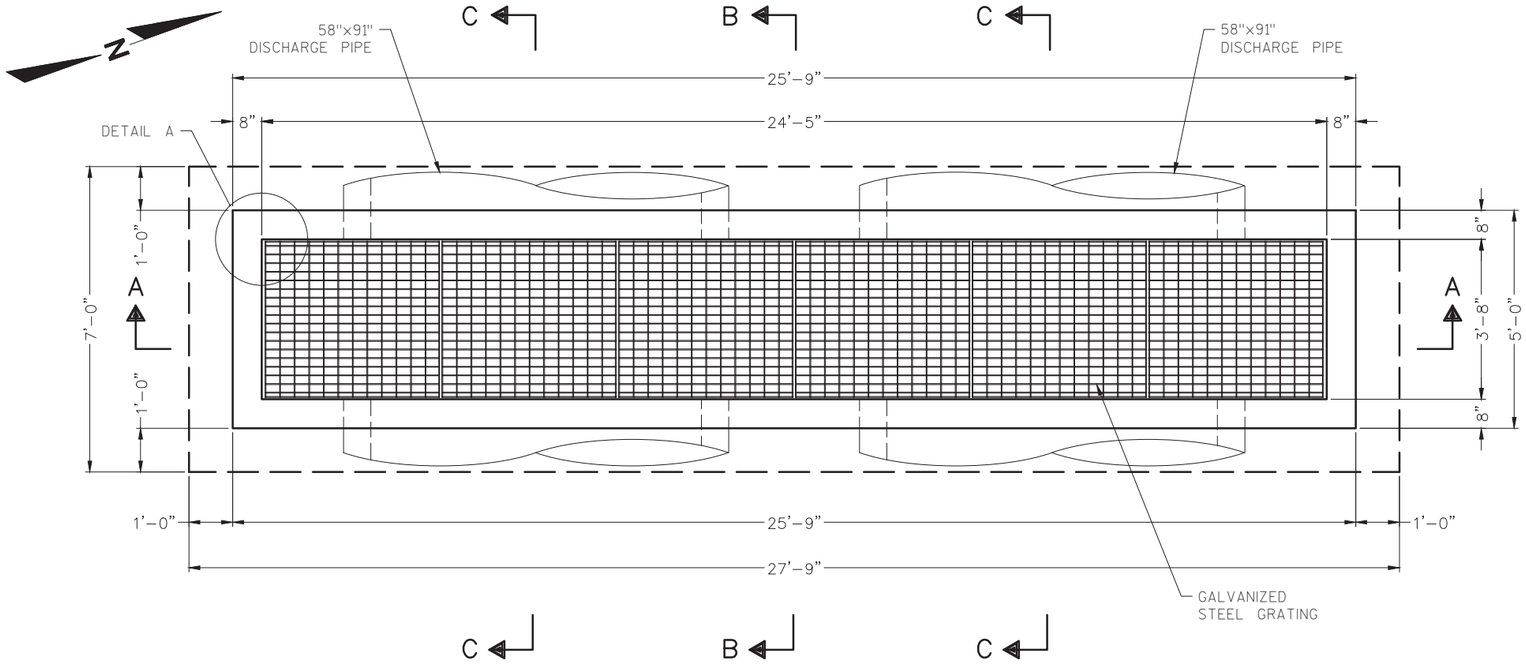


SILT FENCE HEAVY DUTY

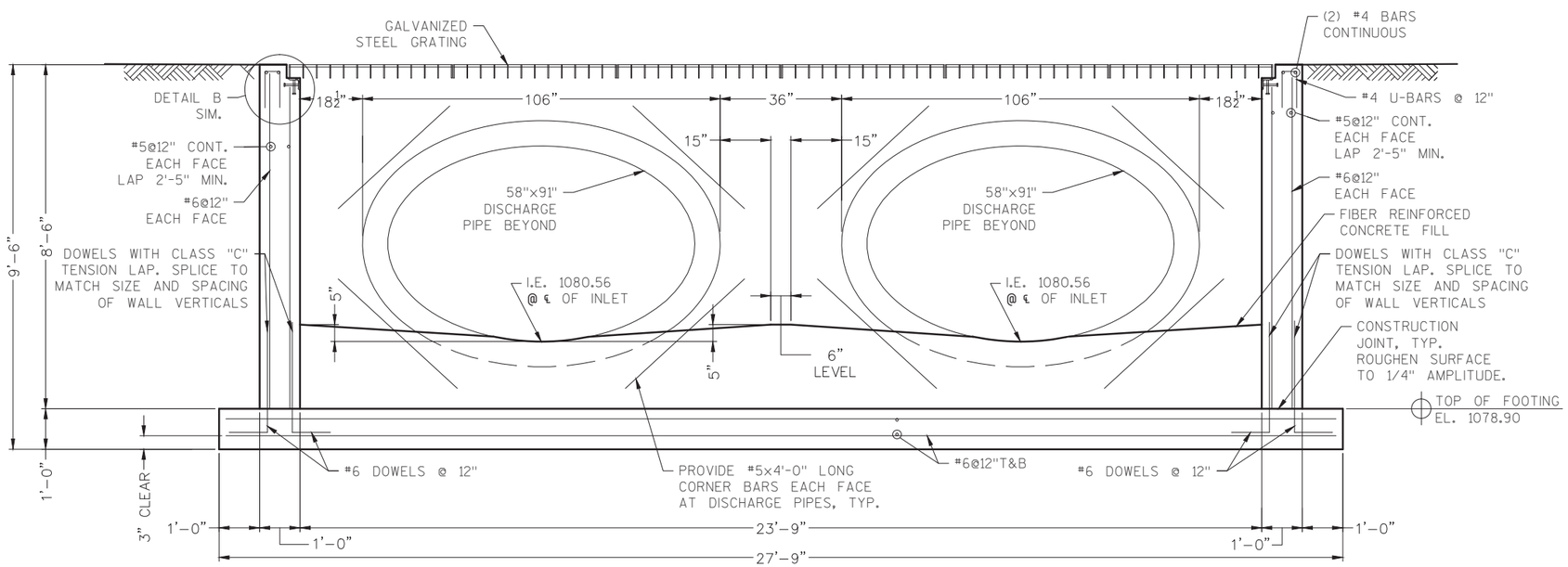
PORTAGE COUNTY

STA 522+20 - STA 524+06 NB

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: VARIOUS	CONSTRUCTION DETAILS	SHEET 8	E



CAST-IN-PLACE REINFORCED CONCRETE INLET
PLAN



CAST-IN-PLACE REINFORCED CONCRETE INLET
SECTION A-A

DESIGN DATA

LIVE LOAD:
HS20

MATERIAL PROPERTIES:
CONCRETE MASONRY ---------- f'c = 4.0 KSI
BAR STEEL REINFORCEMENT --- fy = 60.0 KSI
STEEL GRATING ------------- fy = 36.0 KSI

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

58"x91" DISCHARGE PIPES SHALL NOT BE CONTINUOUS THROUGH INLET. SAW PIPES FLUSH WITH THE INTERIOR FACES OF BOTH WALLS.

THE UPPER LIMITS OF EXCAVATION SHALL BE THE EXISTING GROUND LINE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE ELEVATION AND SECTION EXISTING PRIOR TO EXCAVATION WITHIN THE LENGTH OF THE INLET.

STEEL GRATING AND EMBEDDED ANGLE NOTES

STEEL GRATING AND EMBEDDED ANGLE WITH HEADED WELDED STUDS SHALL BE SUPPLIED HOT-DIPPED GALVANIZED.

MAXIMUM CLEAR SPAN FOR GRATING EQUALS 3'-0".

STEEL GRATING SHALL SUPPORT AN HS20 TRUCK WITH AN IMPACT FACTOR OF 1.3.

GRATING SHALL BEAR FLUSH ON ANGLES AT ENDS OF BEARING BARS. PROVIDE CLAMP CONNECTION BETWEEN GRATING AND SUPPORTING ANGLES. GRATING SHALL BE REMOVABLE.

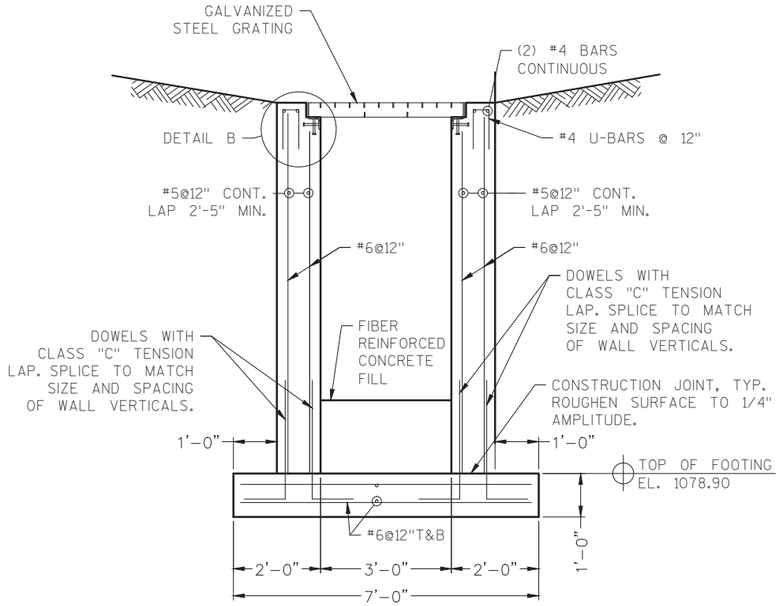
PROVIDE SUPPLEMENTARY CROSS BARS AT 1/3 POINTS OF SPANS ON UNDERSIDE OF GRATING.

SUPPLY TRIM BANDING AT END OF GRATING PANELS WELDED FLUSH WITH THE TOP OF GRATING 1/4" LESS THAN THE DEPTH OF THE GRATING.

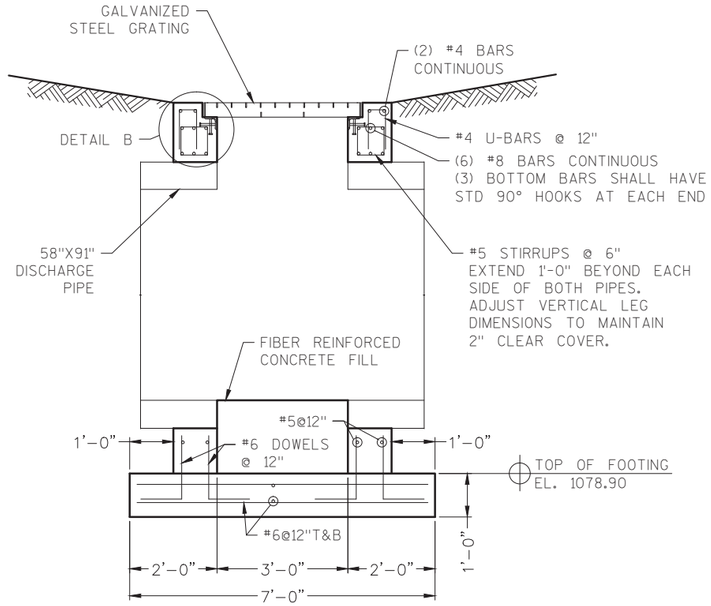
PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	CONSTRUCTION DETAILS	SHEET ---- 9	E

FILE NAME : J:\1122704.04\DWG\FINAL INLET DESIGN.DWG PLOT DATE : 9/3/2008 9:36 AM PLOT BY : DIEKFUSS, JOSEPH PLOT NAME : ----------
WISDOT/CADDS SHEET 42

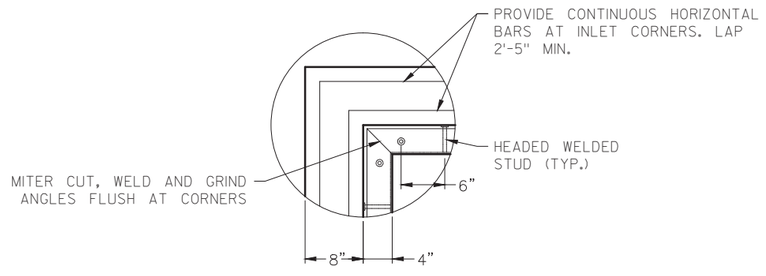
2



CAST-IN-PLACE REINFORCED CONCRETE INLET
SECTION B-B

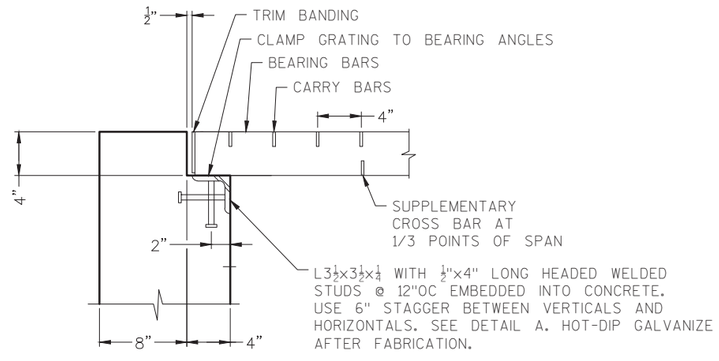


CAST-IN-PLACE REINFORCED CONCRETE INLET
SECTION C-C



DETAIL A

DETAIL A NOTES:
STEEL GRATING AND VERTICAL REINFORCING NOT SHOWN FOR CLARITY.



DETAIL B

DETAIL B NOTES:
REINFORCING STEEL NOT SHOWN FOR CLARITY.

STEEL GRATING IS ROTATED ABOUT VERTICAL LINE 90° AT SIM.

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	CONSTRUCTION DETAILS	SHEET ____ 10	E

FILE NAME : J:\1122704.04\DWG\FINAL INLET DESIGN.DWG PLOT DATE : 9/3/2008 9:36 AM PLOT BY : DIEKFUSS, JOSEPH PLOT NAME : ----------
WISDOT/CADDS SHEET 42

2

DESIGN DATA

LIVE LOAD:
HS20

MATERIAL PROPERTIES:
CONCRETE MASONRY ---------- f'c = 4.0 KSI
BAR STEEL REINFORCEMENT --- fy = 60.0 KSI

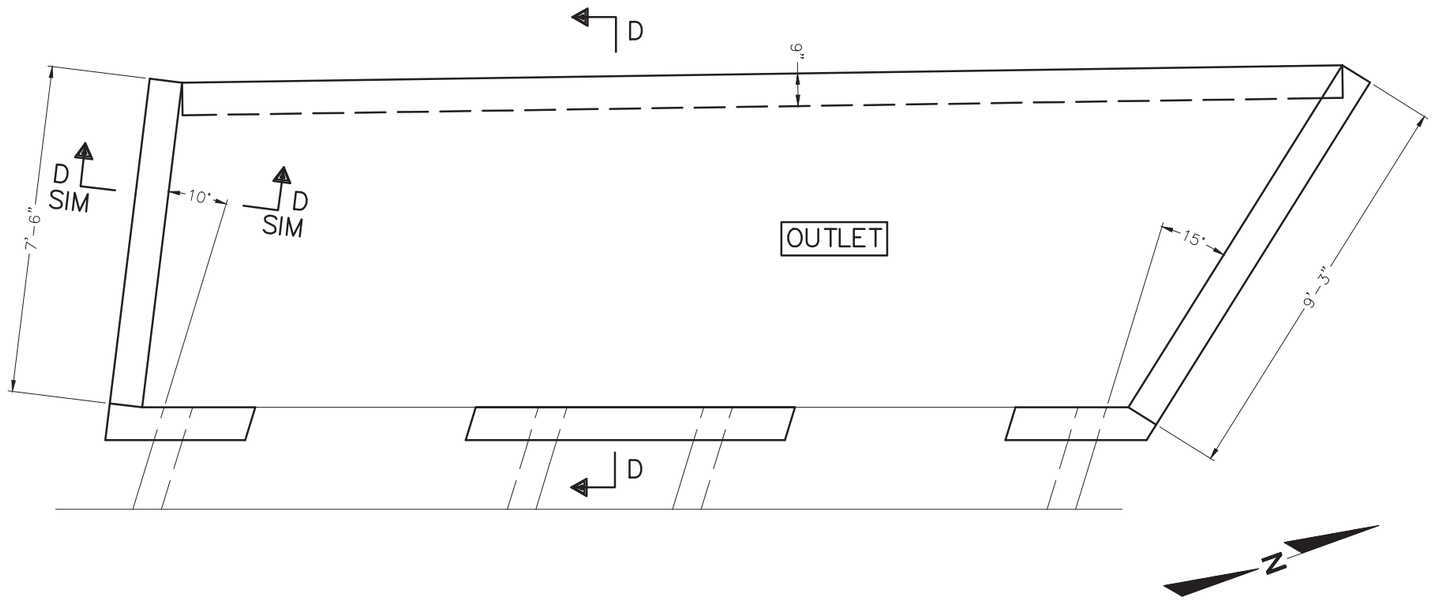
GENERAL NOTES

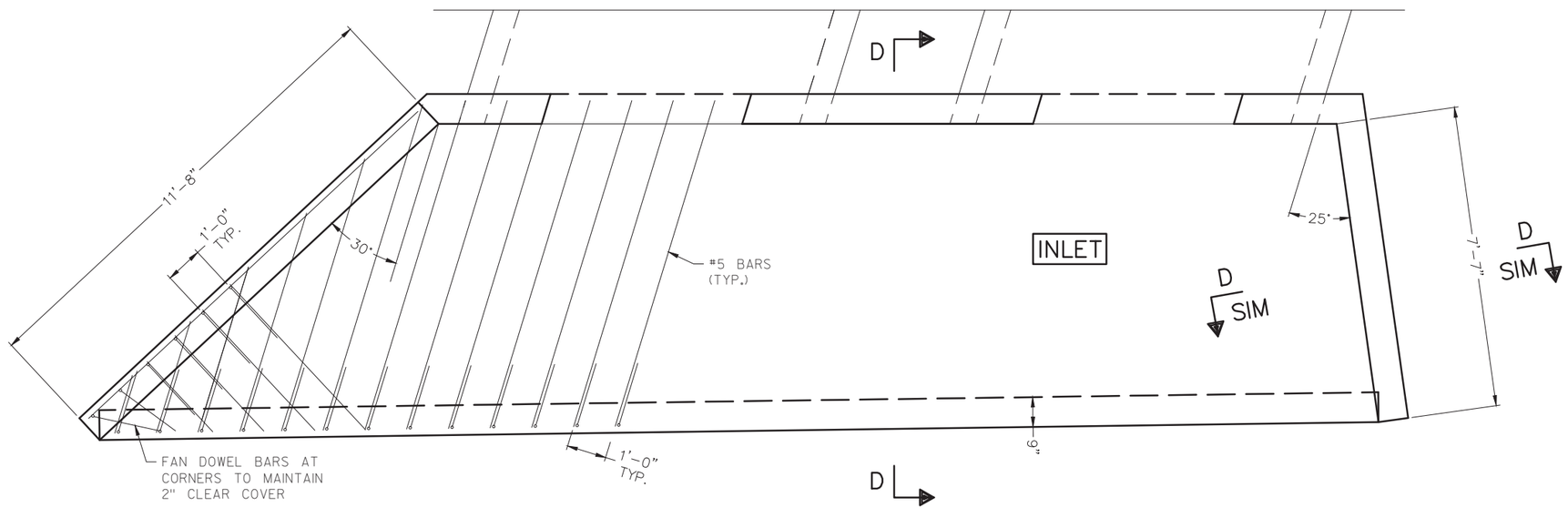
DRAWINGS SHALL NOT BE SCALED.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE UPPER LIMITS OF EXCAVATION SHALL BE THE EXISTING GROUND LINE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE ELEVATION AND SECTION EXISTING PRIOR TO EXCAVATION WITHIN THE LENGTH OF THE ENDWALLS.



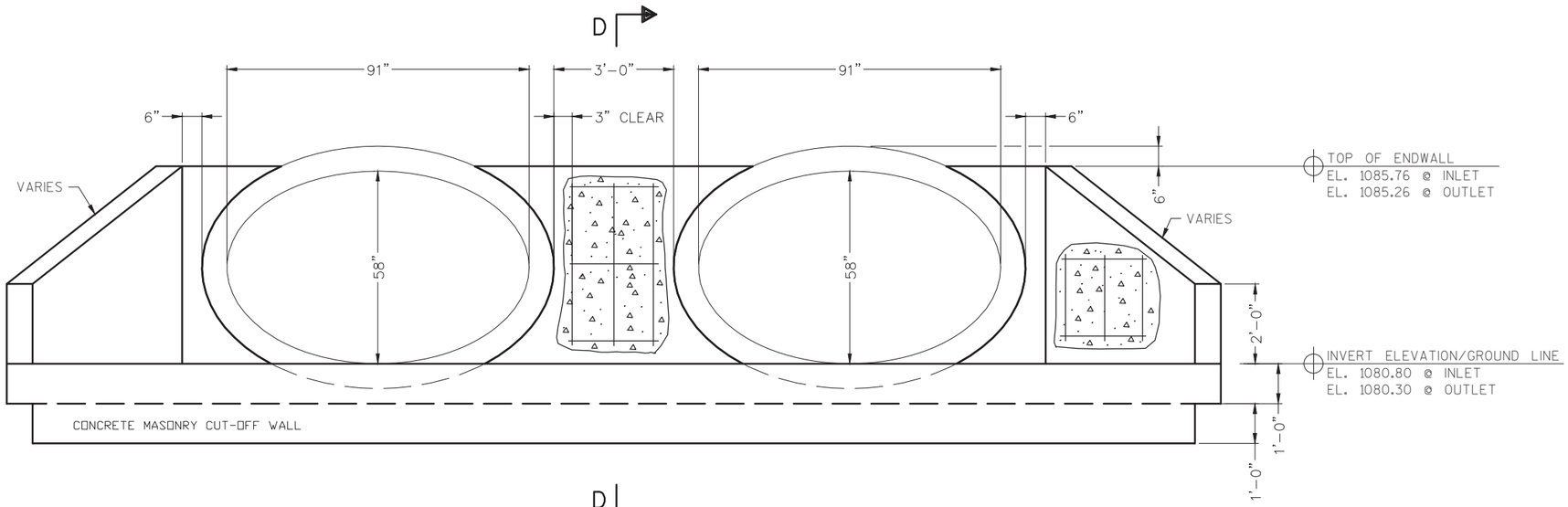


CONCRETE MASONRY ENDWALL
PLANS

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	CONSTRUCTION DETAILS	SHEET ---- 11	E

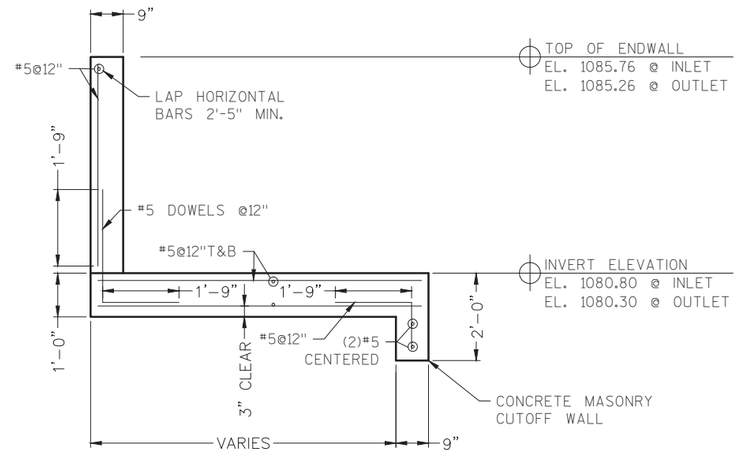
FILE NAME : J:\1122704.04\DWG\FINAL INLET DESIGN.DWG PLOT DATE : 9/3/2008 9:36 AM PLOT BY : DIEKFUSS, JOSEPH PLOT NAME : ----------
WISDOT/CADDS SHEET 42

2



CONCRETE MASONRY ENDWALL
ELEVATION

REFER TO SHEET 1 FOR DESIGN DATA AND GENERAL NOTES.



CONCRETE MASONRY ENDWALL
SECTION D-D

SECTION D-D NOTES:
NO CUTOFF WALL AT SIM.

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	CONSTRUCTION DETAILS	SHEET 12	E

FILE NAME : J:\1122704.04\DWG\FINAL INLET DESIGN.DWG PLOT DATE : 9/3/2008 9:36 AM PLOT BY : DIEKFUSS, JOSEPH PLOT NAME :
WISDOT/CADDS SHEET 42

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 = 14.1 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 1.8 ACRES

LEGEND
- DIRECTION OF FLOW
- SILT FENCE
- SILT FENCE HEAVY DUTY
- TEMPORARY DITCH CHECK
- EROSION MAT URBAN CLASS I TYPE B
- TURBIDITY BARRIER
- CULVERT PIPE CHECKS
- INLET PROTECTION (SEE NOTES)

NOTES
PLACE INLET PROTECTION AS FOLLOWS:
TYPE A PRIOR TO INSTALLING GRATE AND TYPE B AFTER INSTALLING GRATE OR IF GRATE IS INSTALLED IMMEDIATELY

RUFFALO

EXISTING R/W

SOUTH BRANCH TENMILE CREEK

SLOPE INTERCEPT

CABC

60" RCCP

IH-39 SB R/L

ASPH

IH-39 SB

523+00 524+00 525+00 526+00

CAST IN PLACE INLET

STA 523+57
C-49-22
2-58X91-INCH X 223' SSPRCHE CLASS IV
17° SKEW LHF
CONCRETE MASONRY ENDWALLS REQ'D

60" CMCP

IH-39 NB

WETLAND BOUNDARY
SEE PLAN SHEETS FOR
PERMITTED WETLAND AREAS

EXISTING R/W

SLOPE INTERCEPT

TLE

BOVEE PL & OA

STUDLEY

HOWELL

EROSION CONTROL FOR TEMPORARY DIVERSION

SCALE, FEET 0 20 40

PROJECT NO:1160-00-65	HWY:IH-39	COUNTY:PORTAGE	EROSION CONTROL - SOUTH BRANCH TENMILE CREEK	SHEET 13	E

2

LEGEND

- DIRECTION OF FLOW
- SILT FENCE
- H SILT FENCE HEAVY DUTY H
- TEMPORARY DITCH CHECK
- RIPRAP HEAVY WITH SELECT CRUSHED MATERIAL FOR TRAVEL CORRIDOR
- EROSION MAT URBAN CLASS I TYPE B
- CULVERT PIPE CHECKS
- INLET PROTECTION (SEE NOTES)

NOTES

PLACE INLET PROTECTION AS FOLLOWS:
TYPE A PRIOR TO INSTALLING GRATE AND TYPE B AFTER INSTALLING GRATE OR IF GRATE IS INSTALLED IMMEDIATELY

RUFFALO

N

EXISTING R/W

SOUTH BRANCH TENMILE CREEK

RESTORE OLD STREAM BED TO ELEVATION APPROXIMATELY LEVEL WITH SURROUNDING GROUND AND PLANT WITH SEEDING MIXTURE NO. 60

PLACE RIPRAP BELOW ELEVATION OF TOP OF STREAM BED MEDIUM

4'

CABC

15" RCCP

INSIDE

60" RCCP

60" RCCP

IH-39 SB R/L

ASPH

520+00

521+00

522+00

523+00

524+00

525+00

526+00

CAST IN PLACE INLET

IH-39 SB

60" CMCP

60" CMCP

STA 523+57
C-49-22
2-58X91-INCH X 223' SSPRCHE CLASS IV
17° SKEW LHF
CONCRETE MASONRY ENDWALLS REQ'D

IH-39 NB

WETLAND BOUNDARY
SEE PLAN SHEETS FOR
PERMITTED WETLAND AREAS

EXISTING R/W

POST

RESTORE OLD STREAM BED TO ELEVATION APPROXIMATELY LEVEL WITH SURROUNDING GROUND AND PLANT WITH SEEDING MIXTURE NO. 60

BOVEE PL & OA

STUDLEY

PLACE RIPRAP BELOW ELEVATION OF TOP OF STREAM BED MEDIUM

HOWELL

SCALE, FEET 0 20 40

EROSION CONTROL FOR FINAL RESTORATION

PROJECT NO:1160-00-65	HWY:IH-39	COUNTY:PORTAGE	EROSION CONTROL - SOUTH BRANCH TENMILE CREEK	SHEET 14	E

NOTES

EXISTING R/W SHOWN FROM GIS DATA PROVIDED BY PORTAGE COUNTY

PLACE INLET PROTECTION AS FOLLOWS:
TYPE A PRIOR TO INSTALLING GRATE AND TYPE B AFTER INSTALLING GRATE OR IF GRATE IS INSTALLED IMMEDIATELY

LEGEND

- DIRECTION OF FLOW
- H — H SILT FENCE HEAVY DUTY
- TEMPORARY DITCH CHECK
- EROSION MAT URBAN CLASS I TYPE B
- CULVERT PIPE CHECKS
- INLET PROTECTION (SEE NOTES)

N

BIRD LANE

GANSER

SIGN

DUPUIS FARM LLC

EXISTING R/W

WETLAND BOUNDARY
SEE PLAN SHEETS FOR
PERMITTED WETLAND AREAS

CABC

IH-39 SB

ASPH

72" CMCP

STA 1333+29
C-37-9011
1-42-INCH X 92' SSPRC CLASS III
1-AECPRC 42-INCH REQ'D

IH-39 SB R/L

1330+00 1331+00 1332+00 1333+00 1334+00 1335+00 1336+00

42" RCCP

IH-39 NB

TOWN OF KNOWLTON

CITY OF MOSINEE

EROSION CONTROL FOR FINAL RESTORATION

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	EROSION CONTROL - MARATHON COUNTY	SCALE, FEET 0 20 40	SHEET 15	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\022003_EC.DWG PLOT DATE : 9/3/2008 9:39 AM PLOT BY : GUILLAMA, TINA PLOT NAME :

SIGNING LEGEND

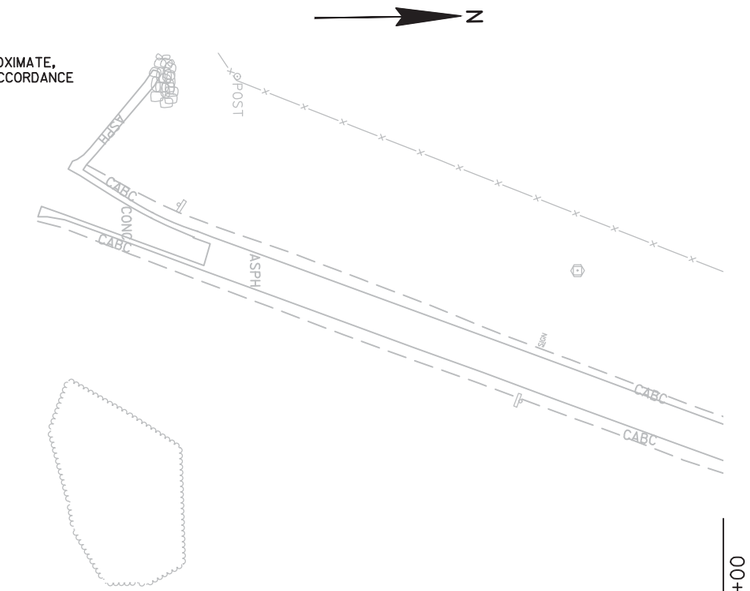
- PROPOSED SIGN MOUNTED ON WOOD POST(S)
- X-XX — SIGN NUMBER
- XR-XX — SIGN NUMBER, REMOVE
- DOUBLE DELINEATOR (WHITE)
- MARKER POST, FLEXIBLE

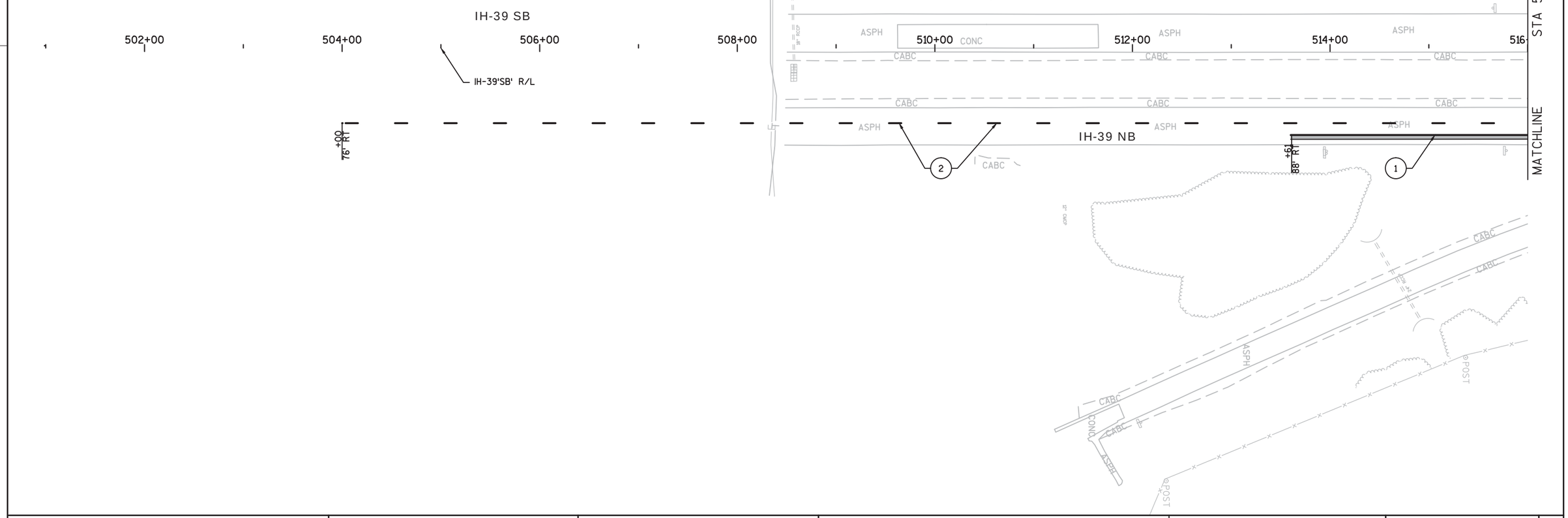
PAVEMENT MARKING LEGEND

1. EPOXY 4-INCH (WHITE)
2. SAME DAY EPOXY (WHITE) (12.5' LINE, 37.5' GAP)
3. EPOXY 4-INCH (YELLOW)
4. EPOXY 4-INCH (WHITE) (3' LINE, 9' GAP)
5. GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
6. EPOXY 24-INCH (WHITE)

NOTE:

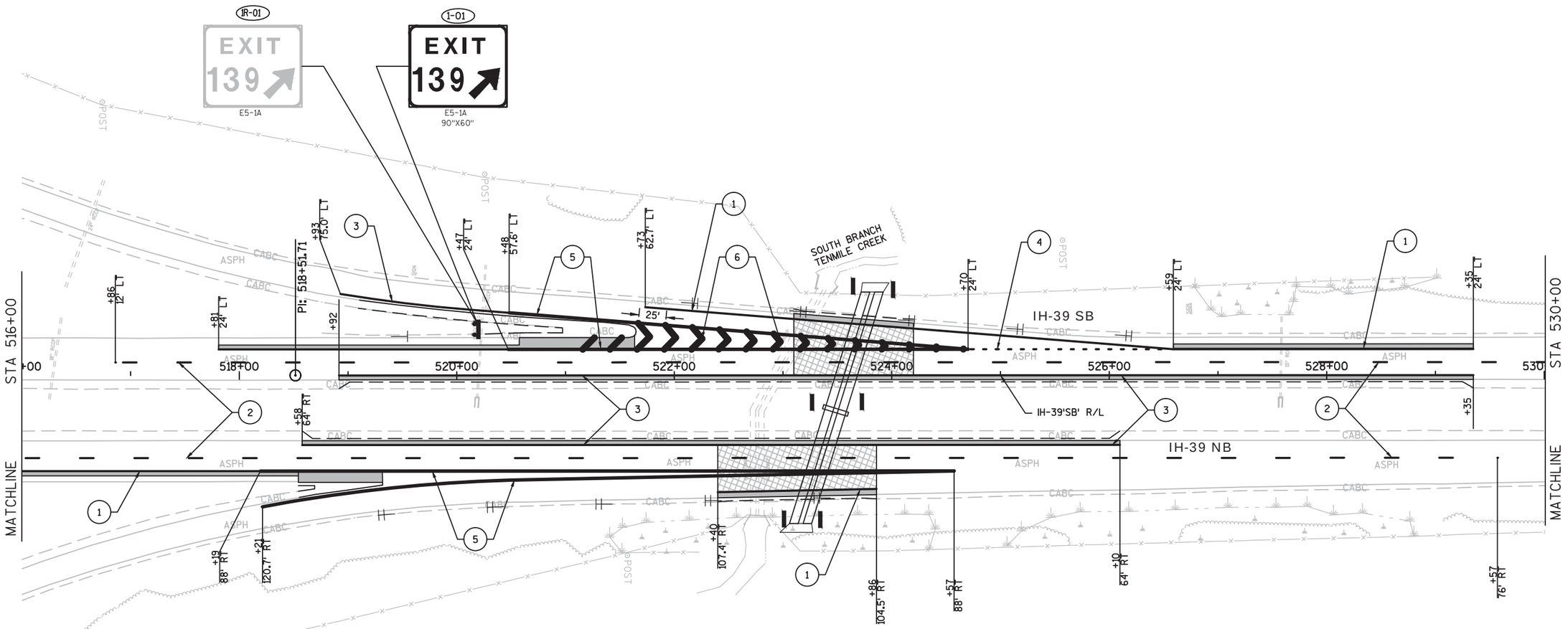
PERMANENT SIGN LOCATIONS ARE APPROXIMATE. FINAL LOCATION SHALL BE PLACE IN ACCORDANCE TO DETAILS AND THE MUTCD.





PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	PERMANENT SIGNING/PAVEMENT MARKING	SCALE, FEET 0 100 200	SHEET 16	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\024502_PM.DWG PLOT DATE : 9/3/2008 9:36 AM PLOT BY : GUILLAMA, TINA PLOT NAME : ----------



SIGNING LEGEND

- PROPOSED SIGN MOUNTED ON WOOD POST(S)
- (X-XX) SIGN NUMBER
- (XR-XX) SIGN NUMBER, REMOVE
- DOUBLE DELINEATOR (WHITE)
- SINGLE DELINEATOR (WHITE)
- MARKER POST, FLEXIBLE

PAVEMENT MARKING LEGEND

1. EPOXY 4-INCH (WHITE)
2. SAME DAY EPOXY (WHITE) (12.5' LINE, 37.5' GAP)
3. EPOXY 4-INCH (YELLOW)
4. EPOXY 4-INCH (WHITE) (3' LINE, 9' GAP)
5. GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
6. EPOXY 24-INCH (WHITE)

NOTE:

PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATION SHALL BE PLACE IN ACCORDANCE TO DETAILS AND THE MUTCD.

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	PERMANENT SIGNING/PAVEMENT MARKING	SCALE, FEET 0 100 200	SHEET 17	E

SIGNING LEGEND

- PROPOSED SIGN MOUNTED ON WOOD POST(S)
- (X-XX) SIGN NUMBER
- (XR-XX) SIGN NUMBER, REMOVE
- DOUBLE DELINEATOR (WHITE)
- MARKER POST, FLEXIBLE

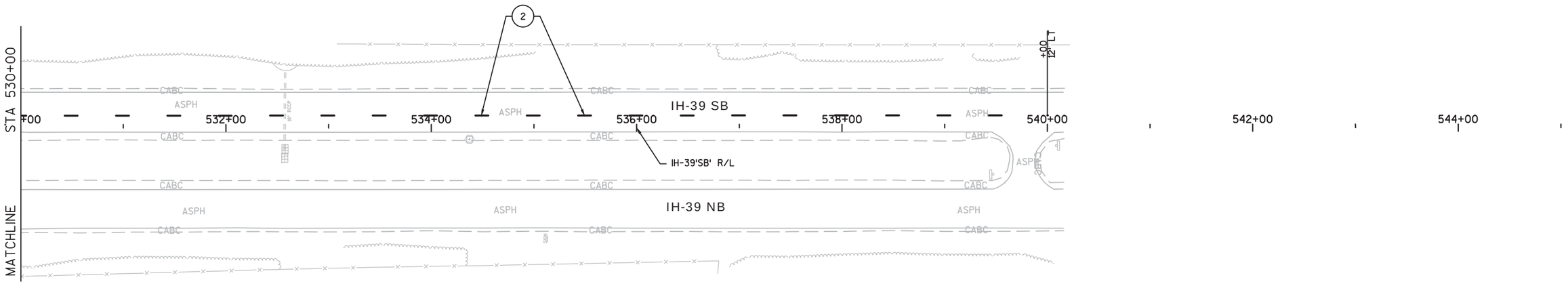
PAVEMENT MARKING LEGEND

1. EPOXY 4-INCH (WHITE)
2. SAME DAY EPOXY (WHITE) (12.5' LINE, 37.5' GAP)
3. EPOXY 4-INCH (YELLOW)
4. EPOXY 4-INCH (WHITE) (3' LINE, 9' GAP)
5. GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
6. EPOXY 24-INCH (WHITE)

NOTE:

PERMANENT SIGN LOCATIONS ARE APPROXIMATE, FINAL LOCATION SHALL BE PLACE IN ACCORDANCE TO DETAILS AND THE MUTCD.

N



PROJECT NO:1160-00-65	HWY:IH-39	COUNTY:PORTAGE	PERMANENT SIGNING/PAVEMENT MARKING	SCALE, FEET 0 100 200	SHEET 18	E

2

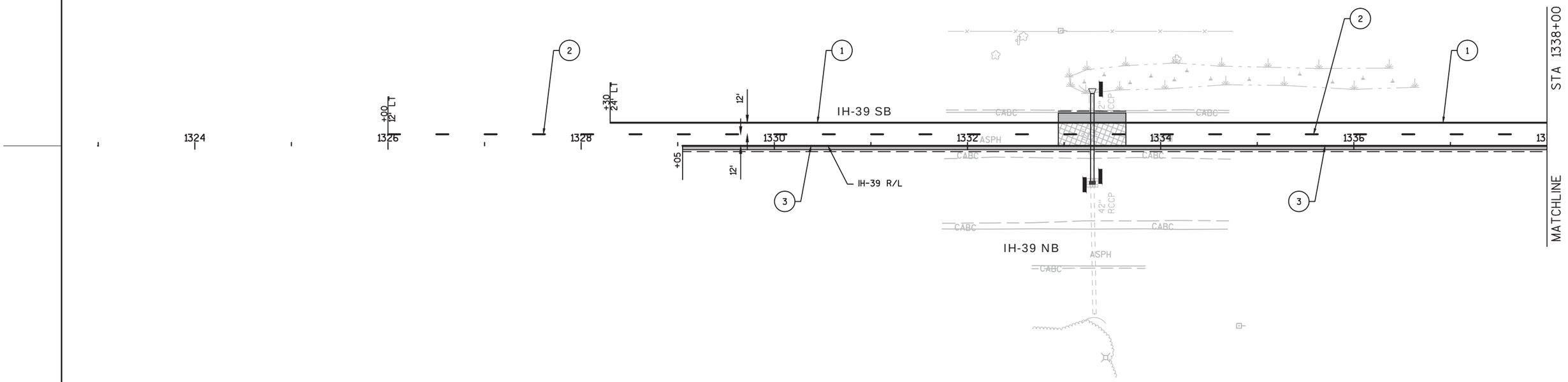
2

PAVEMENT MARKING LEGEND

1. EPOXY 4-INCH (WHITE)
2. GROOVED WET REFLECTIVE TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)
3. EPOXY 4-INCH (YELLOW)

MARKER POST, FLEXIBLE

N



PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	PERMANENT SIGNING/PAVEMENT MARKING	SCALE, FEET 0 100 200	SHEET 19	E

2

2

PAVEMENT MARKING LEGEND

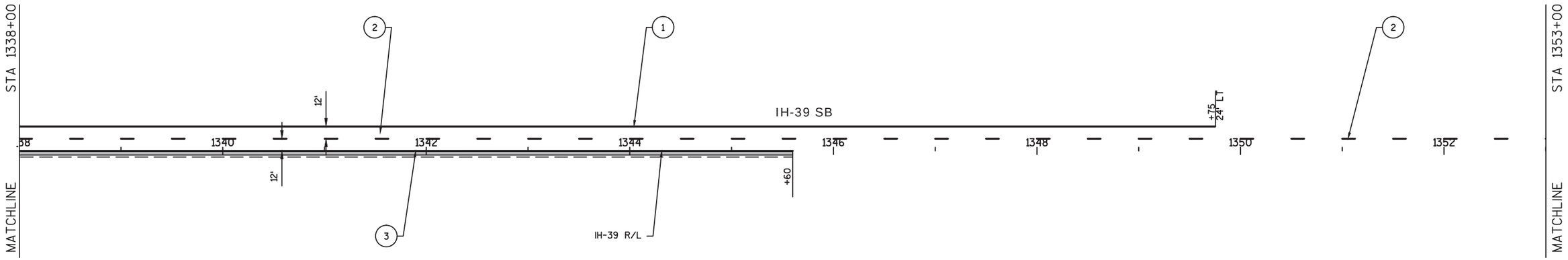
(1) EPOXY 4-INCH (WHITE)

(2) GROOVED WET REFLECTIVE TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)

(3) EPOXY 4-INCH (YELLOW)

MARKER POST, FLEXIBLE

N



PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	PERMANENT SIGNING/PAVEMENT MARKING	SCALE, FEET 0 100 200	SHEET 20	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\024501_PM.DWG PLOT DATE : 9/3/2008 9:36 AM PLOT BY : GUILLAMA, TINA PLOT NAME : ----------

2

2

PAVEMENT MARKING LEGEND

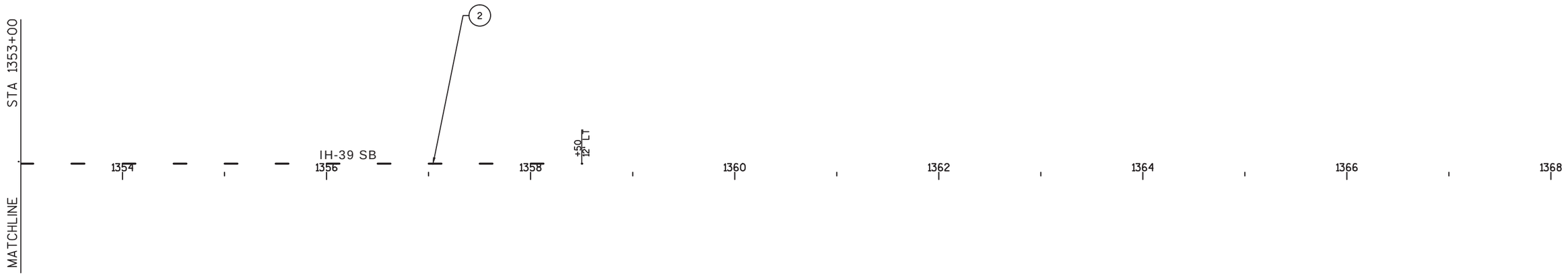
1 EPOXY 4-INCH (WHITE)

2 GROOVED WET REFLECTIVE TAPE 4-INCH (WHITE) (12.5' LINE, 37.5' GAP)

3 EPOXY 4-INCH (YELLOW)

MARKER POST, FLEXIBLE

N



PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	PERMANENT SIGNING/PAVEMENT MARKING	SCALE, FEET 0 100 200	SHEET 21	E

MARATHON COUNTY

INSTALL AT IH 39 AND STH 153 INTERCHANGE PRIOR TO SB OFF RAMP.

INSTALL ON WEST LEG OF IH 39 AND STH 153 INTERCHANGE PRIOR TO SB ON RAMP

INSTALL ON EAST LEG OF IH 39 AND STH 153 INTERCHANGE PRIOR TO SB ON RAMP

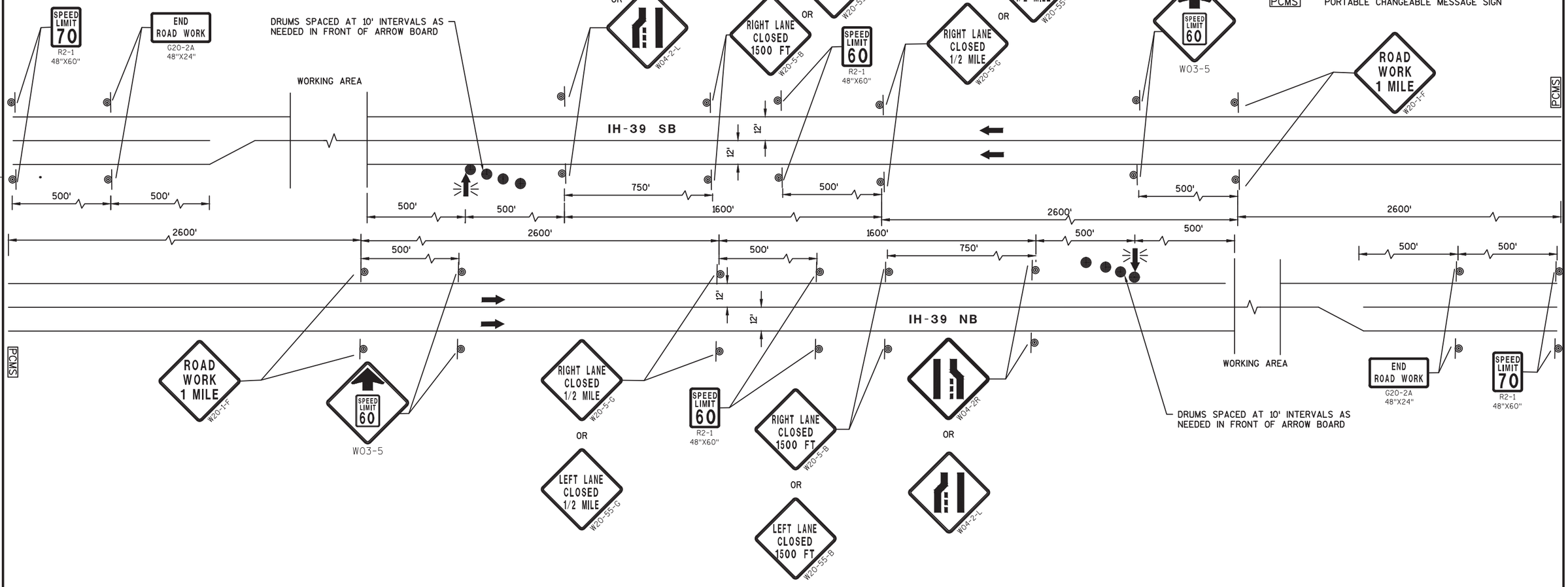
GENERAL NOTES FOR CONSTRUCTION STAGING AND TRAFFIC CONTROL

1. TRAFFIC CONTROL DRUMS IN TAPERS SHALL BE EQUIPPED WITH WARNING LIGHTS, TYPE 'C', ONE WAY LIGHTS IN TAPERS ONLY, UNLESS OTHERWISE SHOWN.
2. SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION AND SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.
3. SIGNS IN CONFLICT WITH TRAFFIC CONTROL 'IN USE' SHALL BE COVERED. THE COVERING OF WOOD POST MOUNTED SIGNS IS INCLUDED UNDER ITEM 643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II, IN LIEU OF COVERING WOOD POST MOUNTED SIGNS, THE CONTRACTOR MAY CHOOSE TO REMOVE AND REINSTALL THEM.
4. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.
5. ALL TRAFFIC CONTROL SIGNS SHALL BE 48"X48" UNLESS OTHERWISE NOTED IN THE PLANS.
6. CONTRACTOR SHALL INSTALL PERMANENT SIGNS AND PERMANENT PAVEMENT MARKING WHEN APPROPRIATE DURING CONSTRUCTION STAGING AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
7. ALL EXISTING CONFLICTING PAVEMENT MARKING SHALL BE REMOVED.
8. BARRICADE STRIPES ARE TO SLOPE DOWNWARD IN THE DIRECTION OF TRAFFIC FLOW.
9. CONTRACTOR TO ENSURE DRAINAGE AND AVOID ANY PONDING OR STANDING WATER DURING THE STAGED CONSTRUCTION.
10. TEMPORARY PAVEMENT MARKINGS SHALL BE TEMPORARY TAPE WHEN PLACED ON NEW OR EXISTING PAVEMENT SURFACES THAT ARE TO REMAIN IN PLACE FOLLOWING CONSTRUCTION L PAINT MAY BE USED ON EXISTING PAVEMENT OR BINDER HMA LAYERS THAT ARE TO BE REMOVED OR OVERLAID IN SUBSEQUENT STAGES.

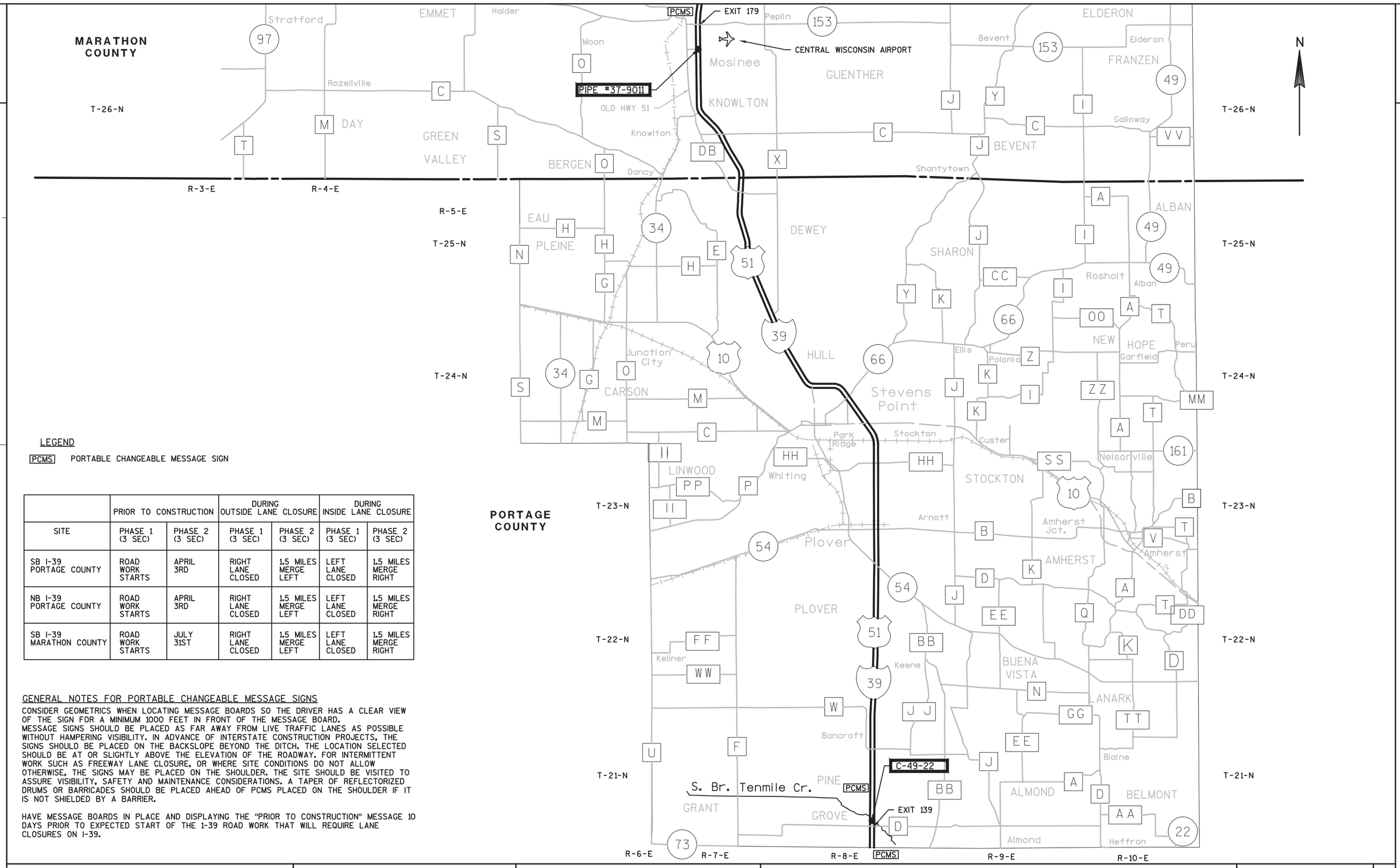
N

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC FLOW
- 16"X16"ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN



PROJECT NO:1160-00-65	HWY: IH-39	COUNTY:PORTAGE & MARATHON	STAGING PLAN - ADVANCED WARNING SIGN DETAILS	SHEET 22	E



LEGEND

PCMS PORTABLE CHANGEABLE MESSAGE SIGN

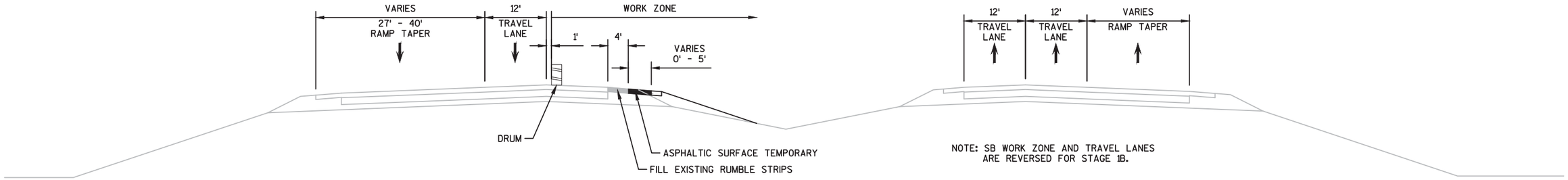
	PRIOR TO CONSTRUCTION		DURING OUTSIDE LANE CLOSURE		DURING INSIDE LANE CLOSURE	
SITE	PHASE 1 (3 SEC)	PHASE 2 (3 SEC)	PHASE 1 (3 SEC)	PHASE 2 (3 SEC)	PHASE 1 (3 SEC)	PHASE 2 (3 SEC)
SB I-39 PORTAGE COUNTY	ROAD WORK STARTS	APRIL 3RD	RIGHT LANE CLOSED	1.5 MILES MERGE LEFT	LEFT LANE CLOSED	1.5 MILES MERGE RIGHT
NB I-39 PORTAGE COUNTY	ROAD WORK STARTS	APRIL 3RD	RIGHT LANE CLOSED	1.5 MILES MERGE LEFT	LEFT LANE CLOSED	1.5 MILES MERGE RIGHT
SB I-39 MARATHON COUNTY	ROAD WORK STARTS	JULY 31ST	RIGHT LANE CLOSED	1.5 MILES MERGE LEFT	LEFT LANE CLOSED	1.5 MILES MERGE RIGHT

GENERAL NOTES FOR PORTABLE CHANGEABLE MESSAGE SIGNS

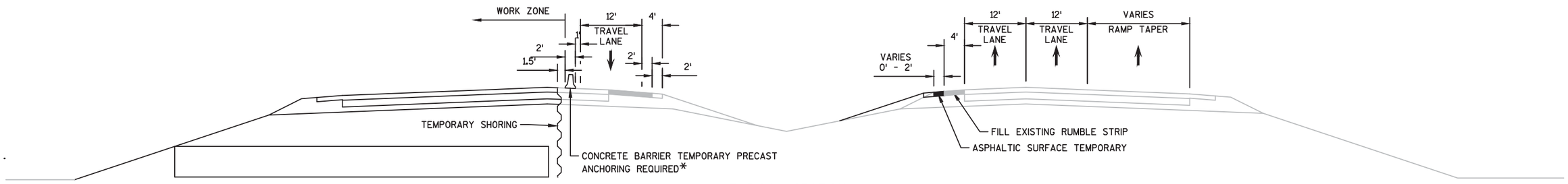
CONSIDER GEOMETRICS WHEN LOCATING MESSAGE BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE SIGN FOR A MINIMUM 1000 FEET IN FRONT OF THE MESSAGE BOARD. MESSAGE SIGNS SHOULD BE PLACED AS FAR AWAY FROM LIVE TRAFFIC LANES AS POSSIBLE WITHOUT HAMPERING VISIBILITY. IN ADVANCE OF INTERSTATE CONSTRUCTION PROJECTS, THE SIGNS SHOULD BE PLACED ON THE BACKSLOPE BEYOND THE DITCH. THE LOCATION SELECTED SHOULD BE AT OR SLIGHTLY ABOVE THE ELEVATION OF THE ROADWAY. FOR INTERMITTENT WORK SUCH AS FREEWAY LANE CLOSURE, 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.

HAVE MESSAGE BOARDS IN PLACE AND DISPLAYING THE "PRIOR TO CONSTRUCTION" MESSAGE 10 DAYS PRIOR TO EXPECTED START OF THE 1-39 ROAD WORK THAT WILL REQUIRE LANE CLOSURES ON I-39.

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE & MARATHON	PORTABLE CHANGEABLE MESSAGE SIGN DETAIL	SHEET 23	E

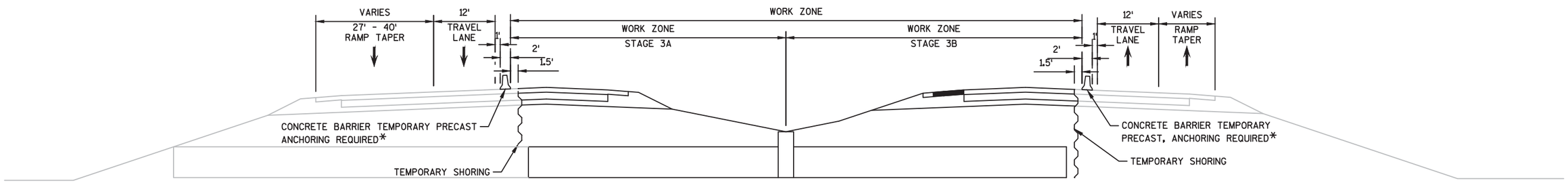


TYPICAL SECTION
PORTAGE COUNTY
STAGE 1



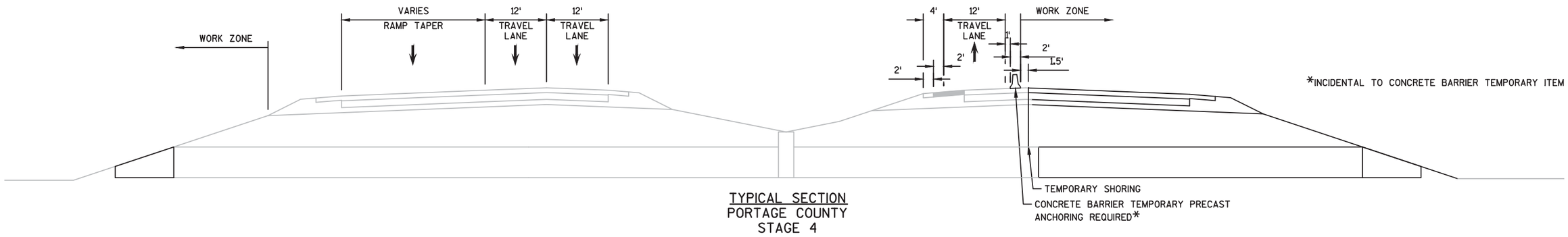
TYPICAL SECTION
PORTAGE COUNTY
STAGE 2

NOTE: NB WORK ZONE AND TRAVEL LANES
ARE REVERSED FOR STAGE 2B.

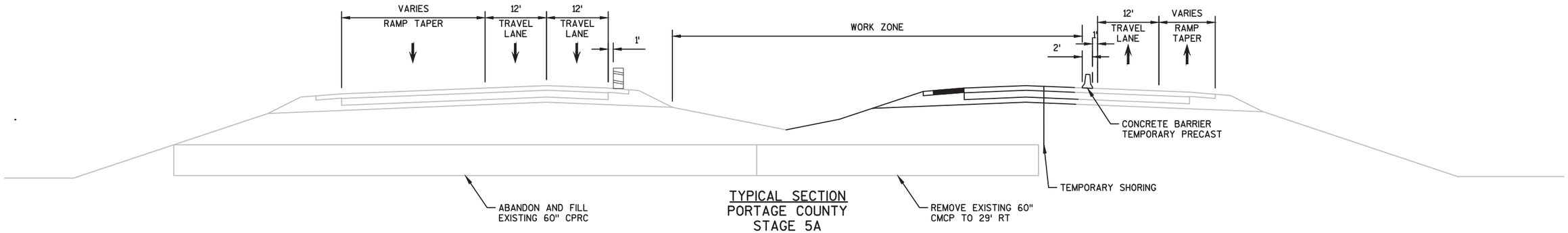


TYPICAL SECTION
PORTAGE COUNTY
STAGE 3

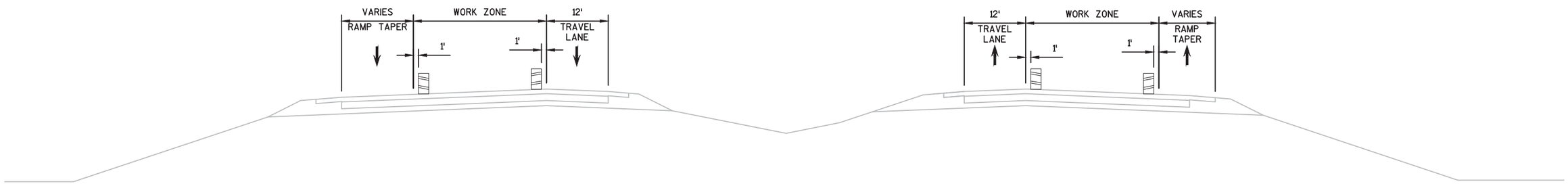
PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING TYPICAL SECTIONS	SHEET 24	E



TYPICAL SECTION
PORTAGE COUNTY
STAGE 4

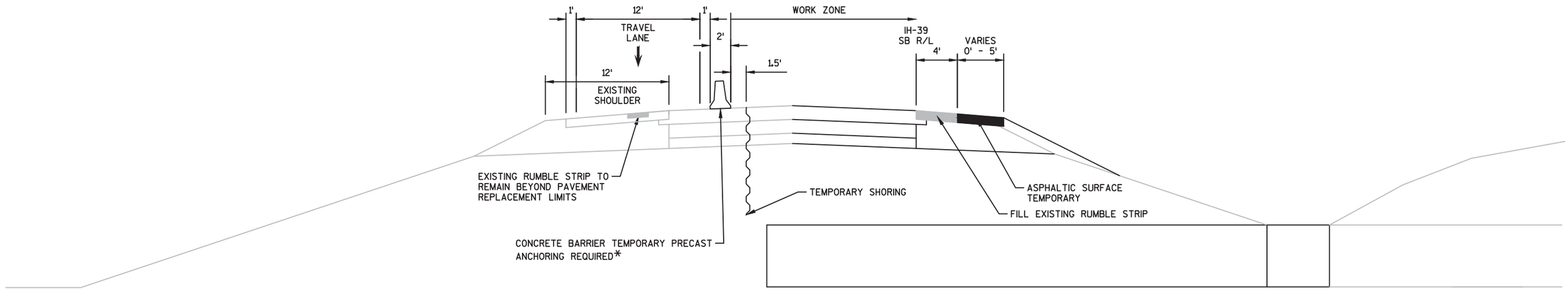


TYPICAL SECTION
PORTAGE COUNTY
STAGE 5A

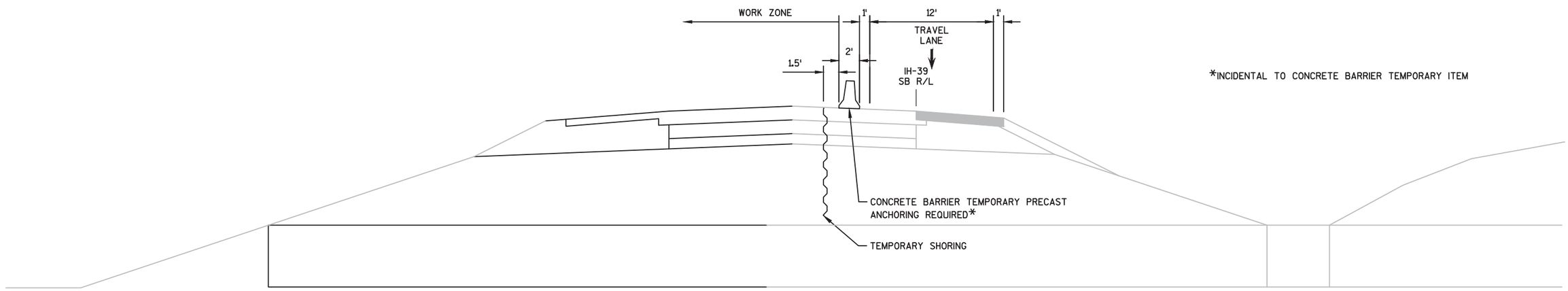


TYPICAL SECTION
PORTAGE COUNTY
STAGE 5B

PROJECT NO:1160-00-65	HWY:IH-39	COUNTY:PORTAGE	STAGING TYPICAL SECTIONS	SHEET 25	E



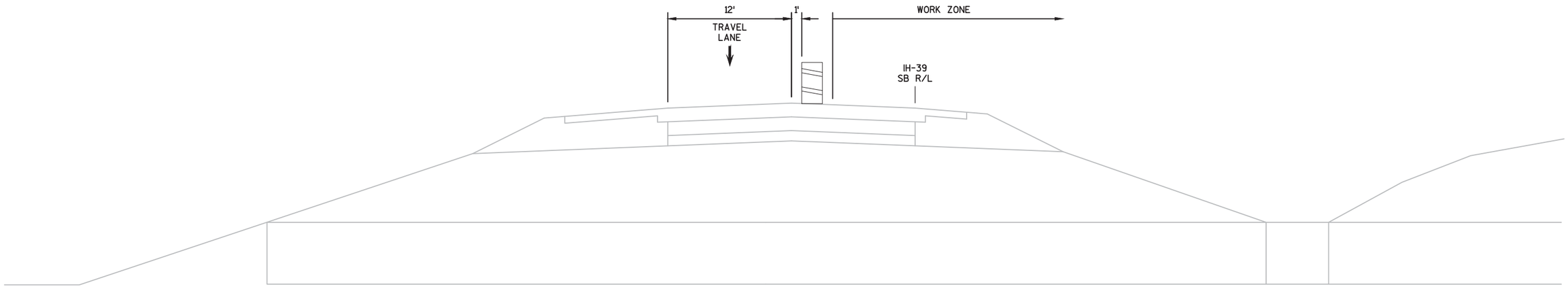
TYPICAL SECTION SB IH-39
MARATHON COUNTY
STAGE 1



*INCIDENTAL TO CONCRETE BARRIER TEMPORARY ITEM

TYPICAL SECTION SB IH-39
MARATHON COUNTY
STAGE 2

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	STAGING TYPICAL SECTIONS	SHEET 26	E



TYPICAL SECTION SB IH-39
MARATHON COUNTY
STAGE 3

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	STAGING TYPICAL SECTIONS	SHEET 27	E

STAGE 1A NOTES:

1. SHIFT TRAFFIC TO EXISTING OUTSIDE SB LANE.
2. FILL THE EXISTING RUMBLE STRIPS IN THE SB INSIDE SHOULDER.
3. CONSTRUCT TEMPORARY WIDENING IN THE SB INSIDE LANE.
4. EXISTING PIPE TO REMAIN.
5. SEE ADVANCE WARNING SIGN DETAIL.

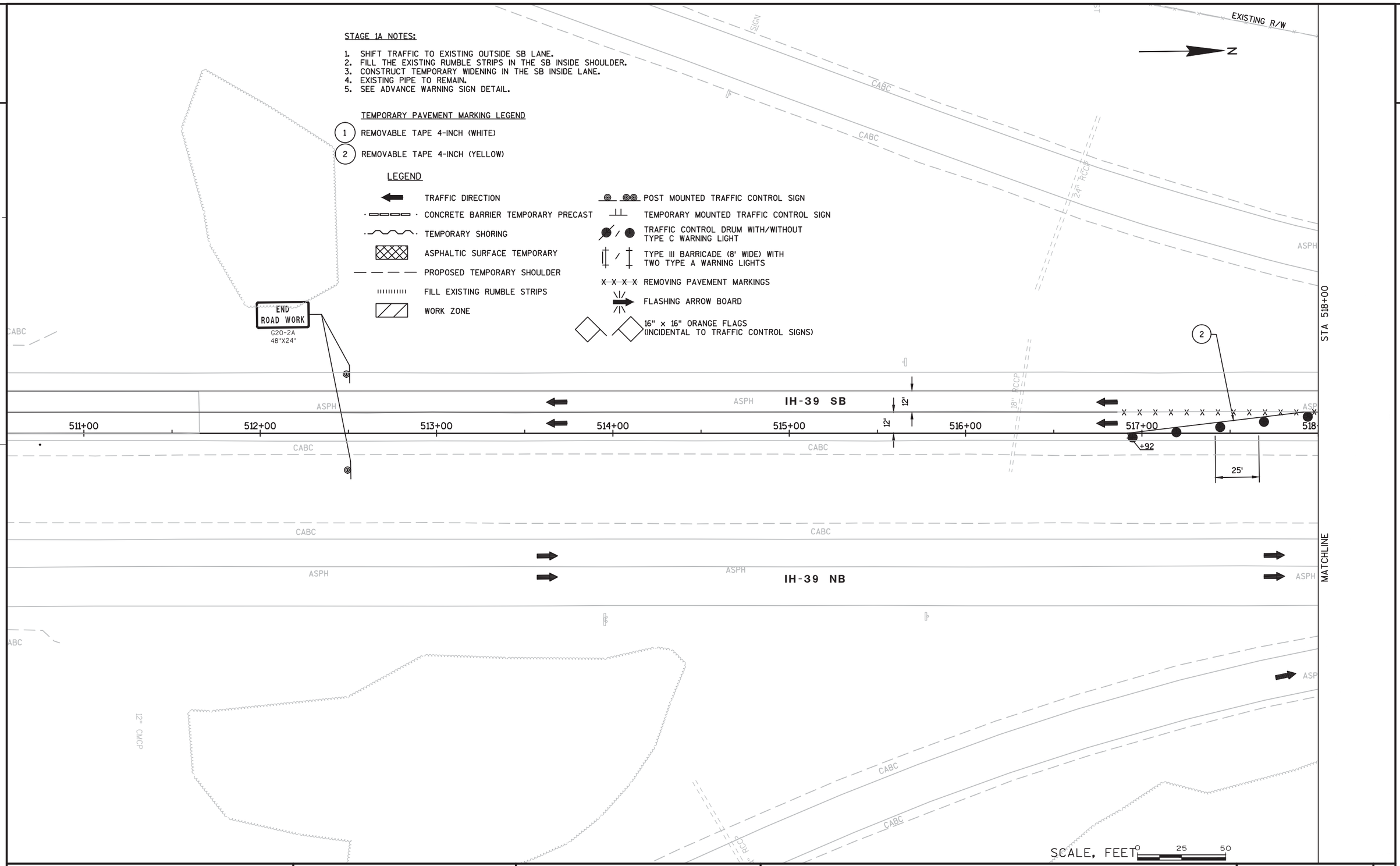
TEMPORARY PAVEMENT MARKING LEGEND

1 REMOVABLE TAPE 4-INCH (WHITE)

2 REMOVABLE TAPE 4-INCH (YELLOW)

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)



PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 1A	SHEET 28	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026001_S1A.DWG PLOT DATE : 1/27/2016 10:53 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

STAGE 1A NOTES:

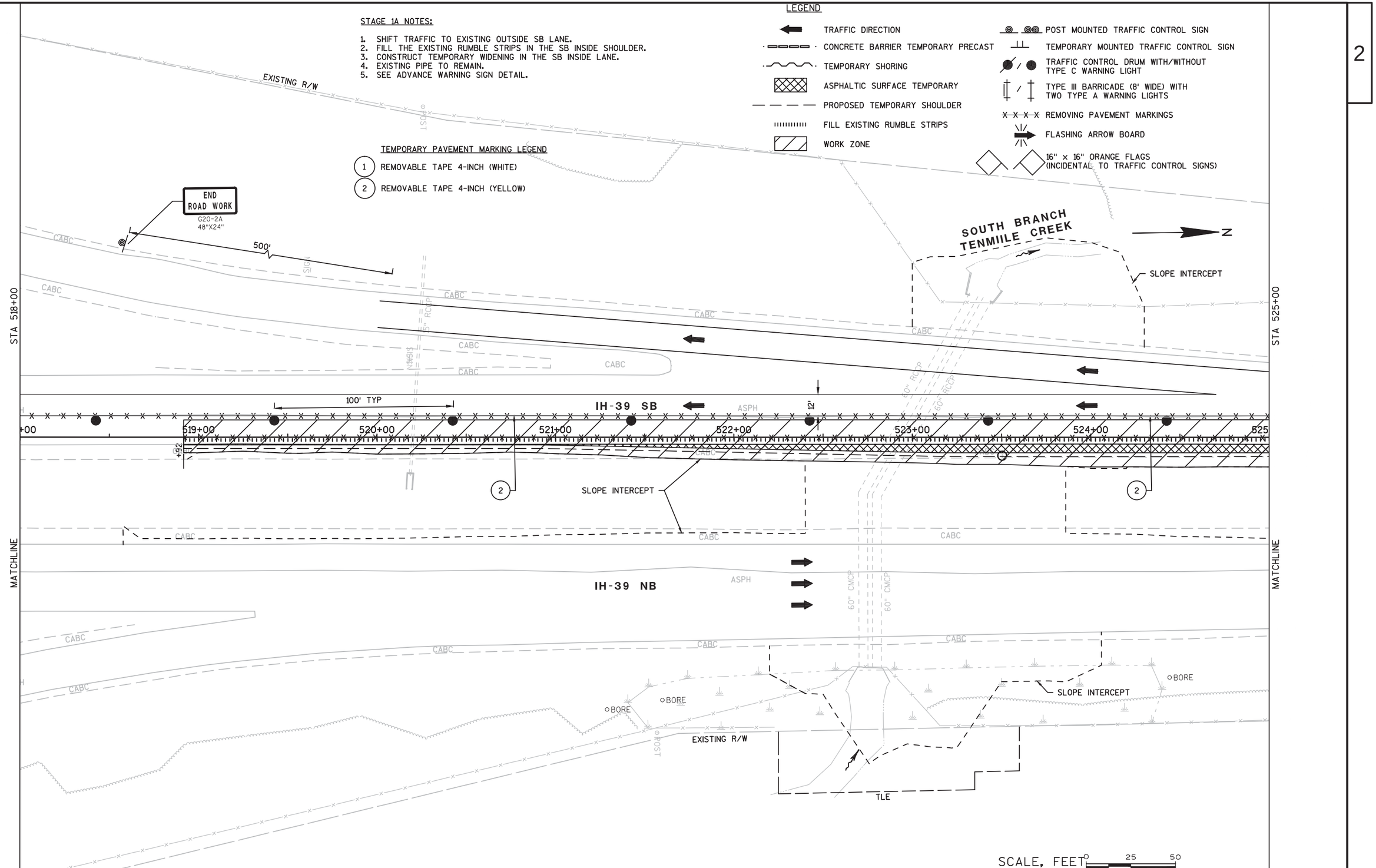
1. SHIFT TRAFFIC TO EXISTING OUTSIDE SB LANE.
2. FILL THE EXISTING RUMBLE STRIPS IN THE SB INSIDE SHOULDER.
3. CONSTRUCT TEMPORARY WIDENING IN THE SB INSIDE LANE.
4. EXISTING PIPE TO REMAIN.
5. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)



SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 1A	SHEET 29	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026001_S1A.DWG PLOT DATE : 1/27/2016 10:54 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

STAGE 1A NOTES:

1. SHIFT TRAFFIC TO EXISTING OUTSIDE SB LANE.
2. FILL THE EXISTING RUMBLE STRIPS IN THE SB INSIDE SHOULDER.
3. CONSTRUCT TEMPORARY WIDENING IN THE SB INSIDE LANE.
4. EXISTING PIPE TO REMAIN.
5. SEE ADVANCE WARNING SIGN DETAIL.

TEMPORARY PAVEMENT MARKING LEGEND

(1) REMOVABLE TAPE 4-INCH (WHITE)

(2) REMOVABLE TAPE 4-INCH (YELLOW)

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N

EXISTING R/W

POST

BORE

BORE

SIGN

STA 525+00

STA 532+00

CABC

100' TYP

RCCP

ASPH

IH-39 SB

12'

+60

+35

526+00

527+00

528+00

529+00

530+00

531+00

SLOPE INTERCEPT

LANE CLOSED

R11-2L
48" X 30"

MATCHLINE

IH-39 NB

BORE

BORE

EXISTING R/W

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 1A	SHEET 30	E

STAGE 1A NOTES:

1. SHIFT TRAFFIC TO EXISTING OUTSIDE SB LANE.
2. FILL THE EXISTING RUMBLE STRIPS IN THE SB INSIDE SHOULDER.
3. CONSTRUCT TEMPORARY WIDENING IN THE SB INSIDE LANE.
4. EXISTING PIPE TO REMAIN.
5. SEE ADVANCE WARNING SIGN DETAIL.

TEMPORARY PAVEMENT MARKING LEGEND

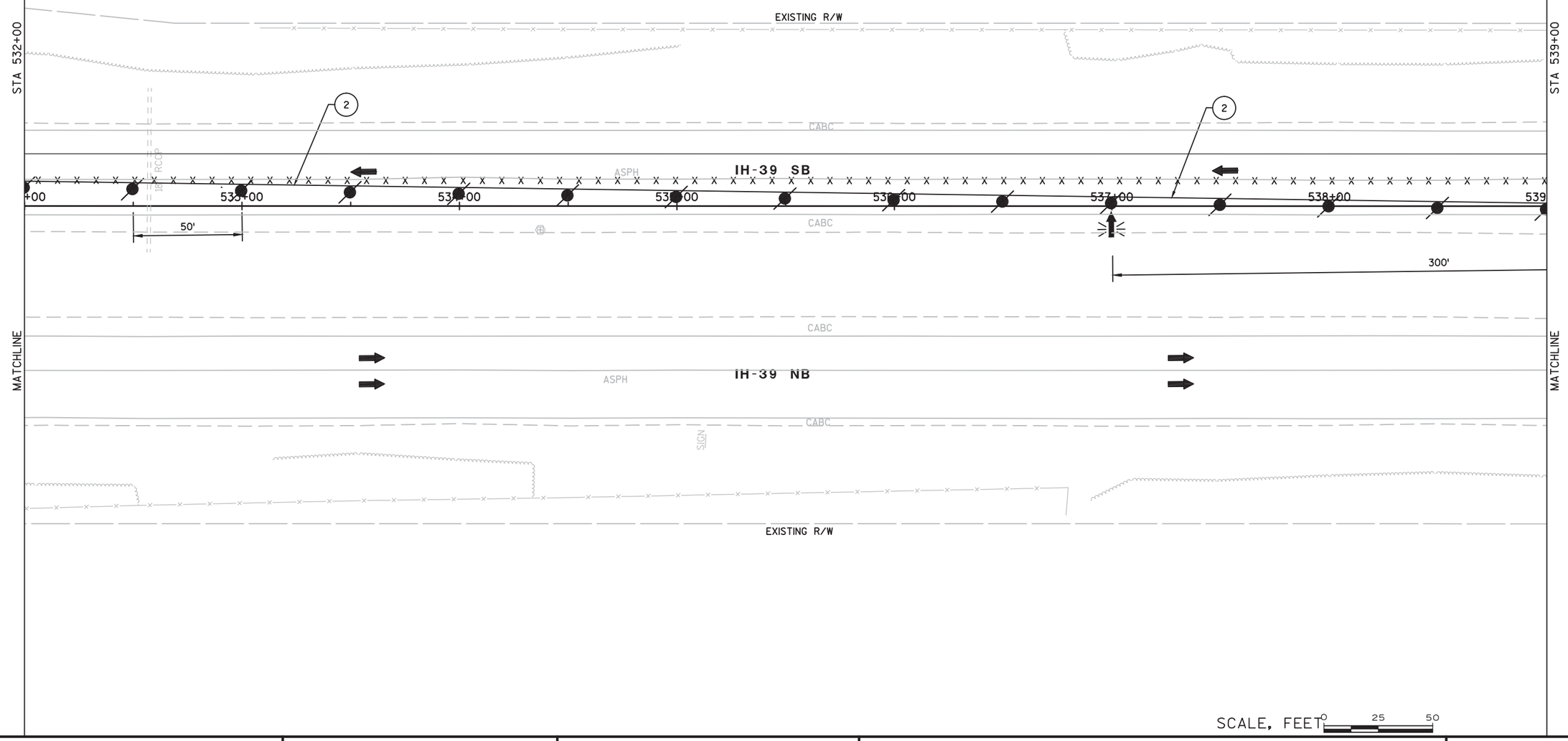
(1) REMOVABLE TAPE 4-INCH (WHITE)

(2) REMOVABLE TAPE 4-INCH (YELLOW)

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N



PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 1A	SHEET 31	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026001_S1A.DWG PLOT DATE : 1/27/2016 10:54 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

STAGE 1A NOTES:

1. SHIFT TRAFFIC TO EXISTING OUTSIDE SB LANE.
2. FILL THE EXISTING RUMBLE STRIPS IN THE SB INSIDE SHOULDER.
3. CONSTRUCT TEMPORARY WIDENING IN THE SB INSIDE LANE.
4. EXISTING PIPE TO REMAIN.
5. SEE ADVANCE WARNING SIGN DETAIL.

TEMPORARY PAVEMENT MARKING LEGEND

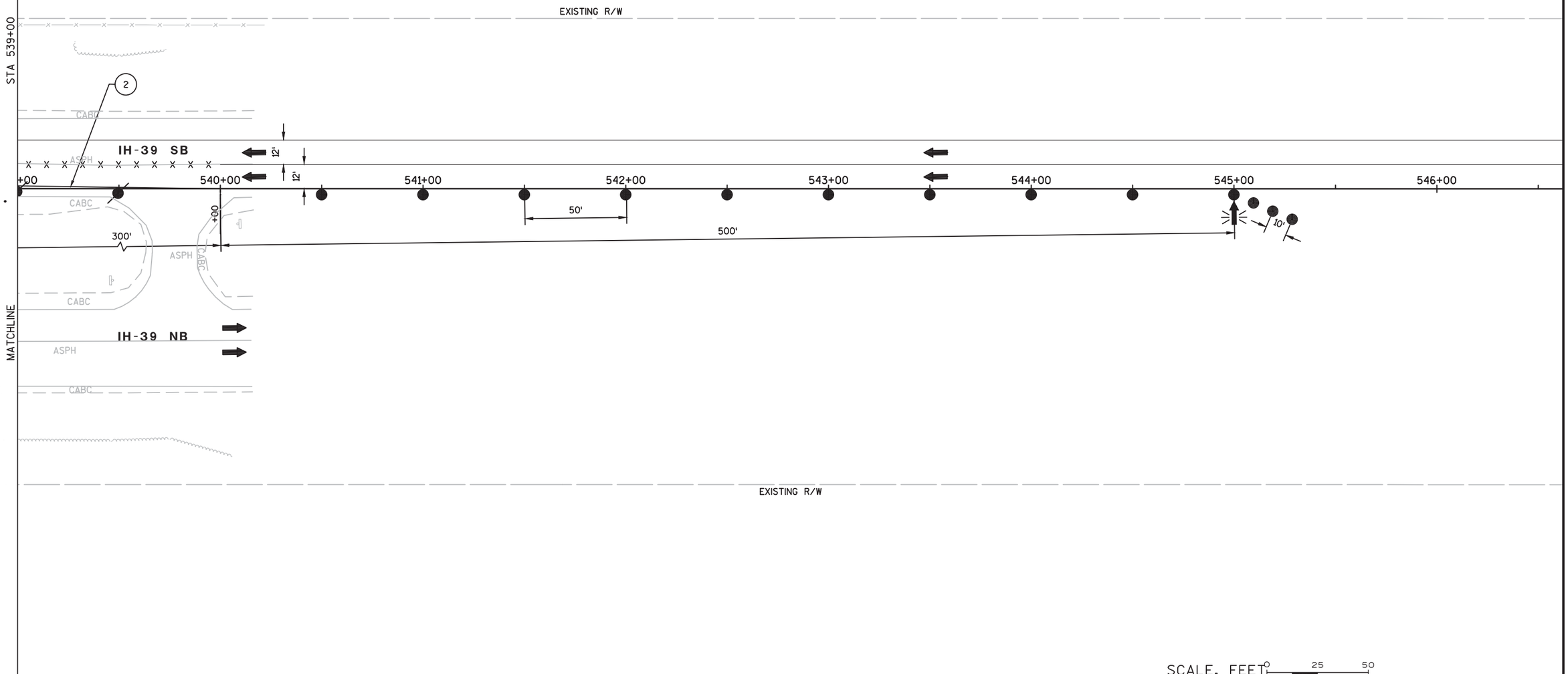
(1) REMOVABLE TAPE 4-INCH (WHITE)

(2) REMOVABLE TAPE 4-INCH (YELLOW)

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N



PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 1A	SHEET 32	E

STAGE 1B NOTES:

1. CONSTRUCT TEMPORARY EXIT RAMP.
2. SHIFT TRAFFIC TO EXISTING INSIDE SB LANE.
3. FILL THE EXISTING RUMBLE STRIPS IN THE SB OUTSIDE SHOULDER.
4. SEE ADVANCE WARNING SIGN DETAIL.

TEMPORARY PAVEMENT MARKING LEGEND

1 REMOVABLE TAPE 4-INCH (WHITE)

2 REMOVABLE TAPE 4-INCH (YELLOW)

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

END ROAD WORK
G20-2A
48" X 24"

IH-39 SB

IH-39 NB

511+00 512+00 513+00 514+00 515+00 516+00 517+00 518+00

STA 518+00

+38 +81

12' 12'

24" RCCP

18" RCCP

12" CMCP

CABC ASPH

MATCHLINE

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 1B	SHEET 33	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026001_S1B.DWG PLOT DATE : 1/27/2016 10:56 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

STAGE 1B NOTES:

1. CONSTRUCT TEMPORARY EXIT RAMP.
2. SHIFT TRAFFIC TO EXISTING INSIDE SB LANE.
3. FILL THE EXISTING RUMBLE STRIPS IN THE SB OUTSIDE SHOULDER.
4. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)

N

END ROAD WORK
G20-2A
48"X24"

500'

STA 518+00

STA 525+00

MATCHLINE

MATCHLINE

SOUTH BRANCH TENMILE CREEK

EXISTING R/W

EXISTING R/W

IH-39 SB

IH-39 NB

ASPH

50'

12'

519+00

520+00

521+00

522+00

523+00

524+00

+92 12.2' LT

+93 68.8' LT

+08

+66 34.9' LT

+65 45.4' LT

60" CMCP

60" CMCP

TLE

CABC

SIGN

GUARDRAIL

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 1B	SHEET 34	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026001_S1B.DWG PLOT DATE : 1/27/2016 10:56 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

STAGE 1B NOTES:

1. CONSTRUCT TEMPORARY EXIT RAMP.
2. SHIFT TRAFFIC TO EXISTING INSIDE SB LANE.
3. FILL THE EXISTING RUMBLE STRIPS IN THE SB OUTSIDE SHOULDER.
4. SEE ADVANCE WARNING SIGN DETAIL.

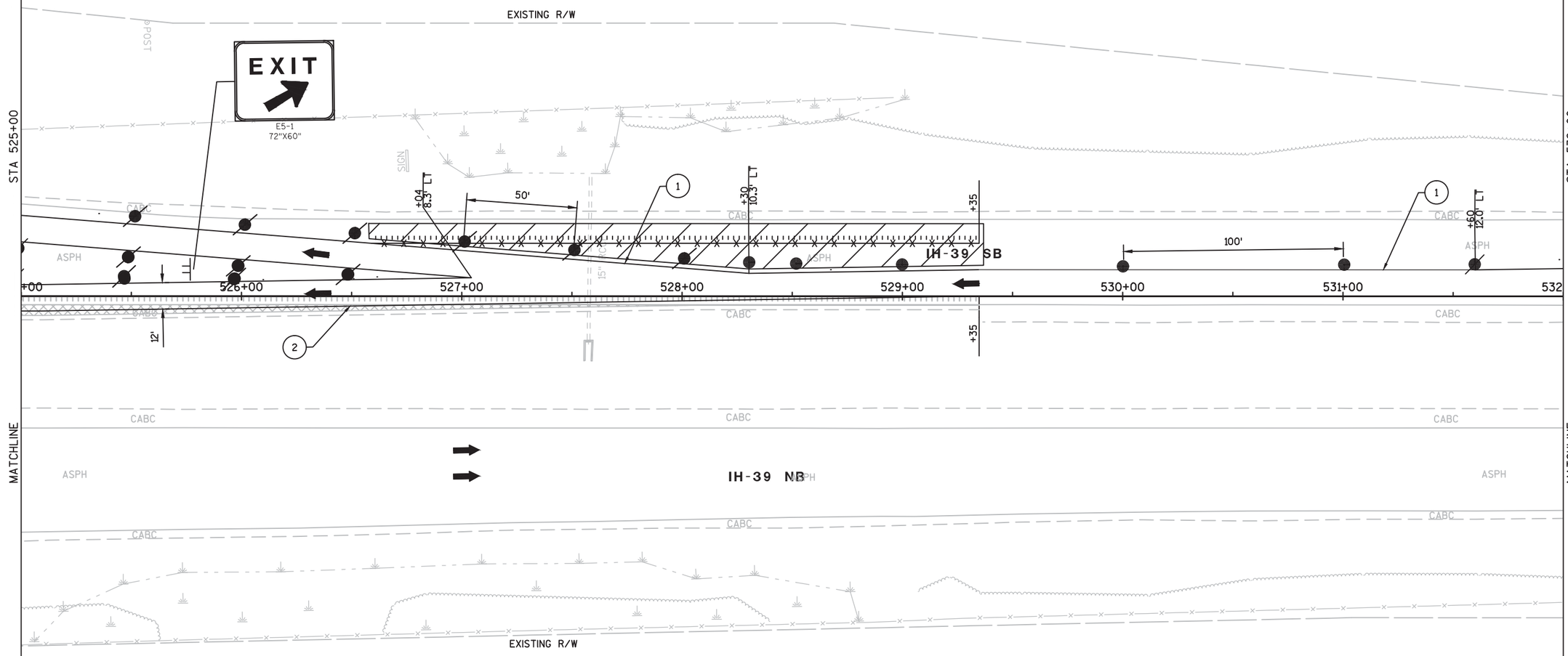
TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N



SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 1B	SHEET 35	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026001_S1B.DWG PLOT DATE : 1/27/2016 10:56 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

STAGE 1B NOTES:

1. CONSTRUCT TEMPORARY EXIT RAMP.
2. SHIFT TRAFFIC TO EXISTING INSIDE SB LANE.
3. FILL THE EXISTING RUMBLE STRIPS IN THE SB OUTSIDE SHOULDER.
4. SEE ADVANCE WARNING SIGN DETAIL.

TEMPORARY PAVEMENT MARKING LEGEND

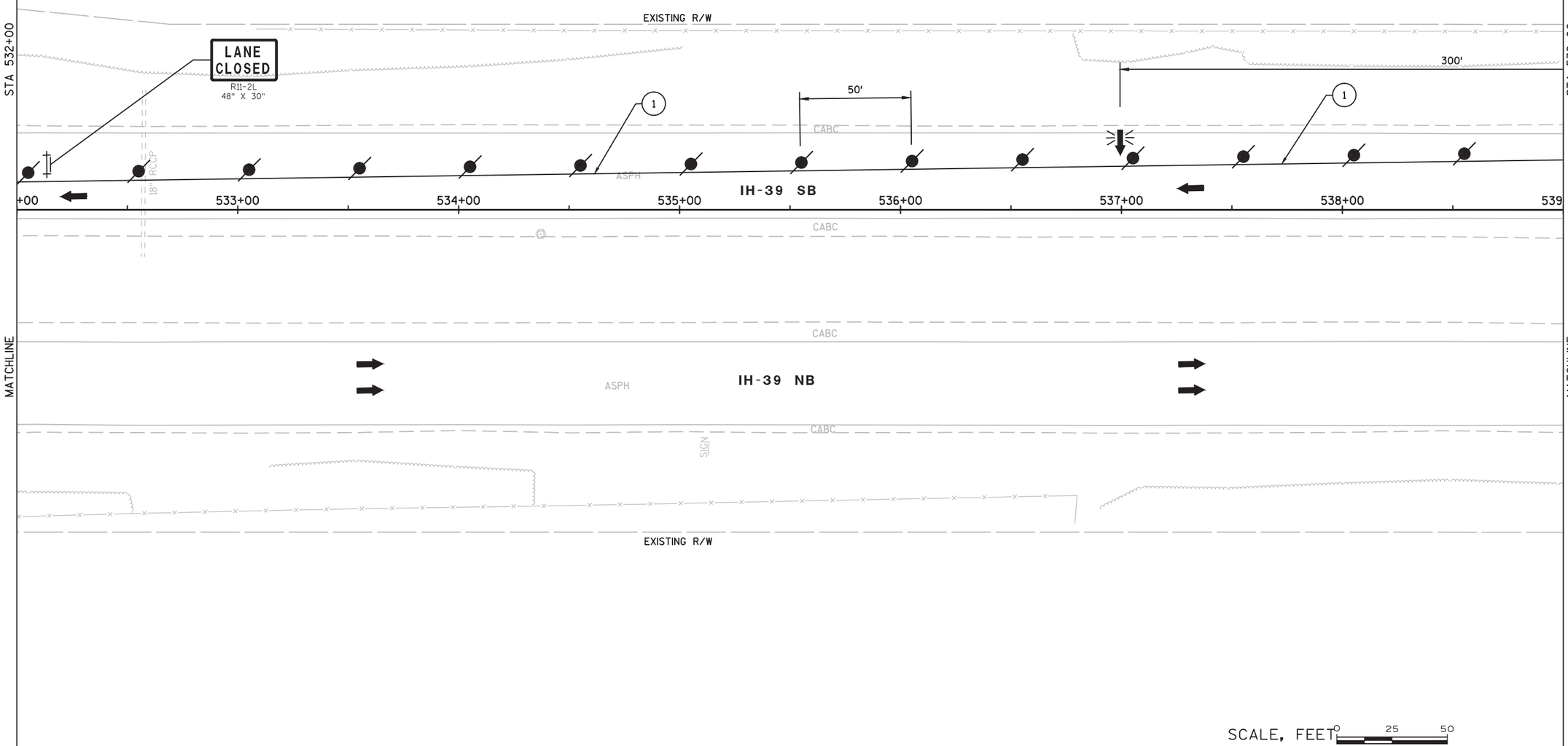
(1) REMOVABLE TAPE 4-INCH (WHITE)

(2) REMOVABLE TAPE 4-INCH (YELLOW)

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N



SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 1B	SHEET 36	E

STAGE 1B NOTES:

1. CONSTRUCT TEMPORARY EXIT RAMP.
2. SHIFT TRAFFIC TO EXISTING INSIDE SB LANE.
3. FILL THE EXISTING RUMBLE STRIPS IN THE SB OUTSIDE SHOULDER.
4. SEE ADVANCE WARNING SIGN DETAIL.

TEMPORARY PAVEMENT MARKING LEGEND

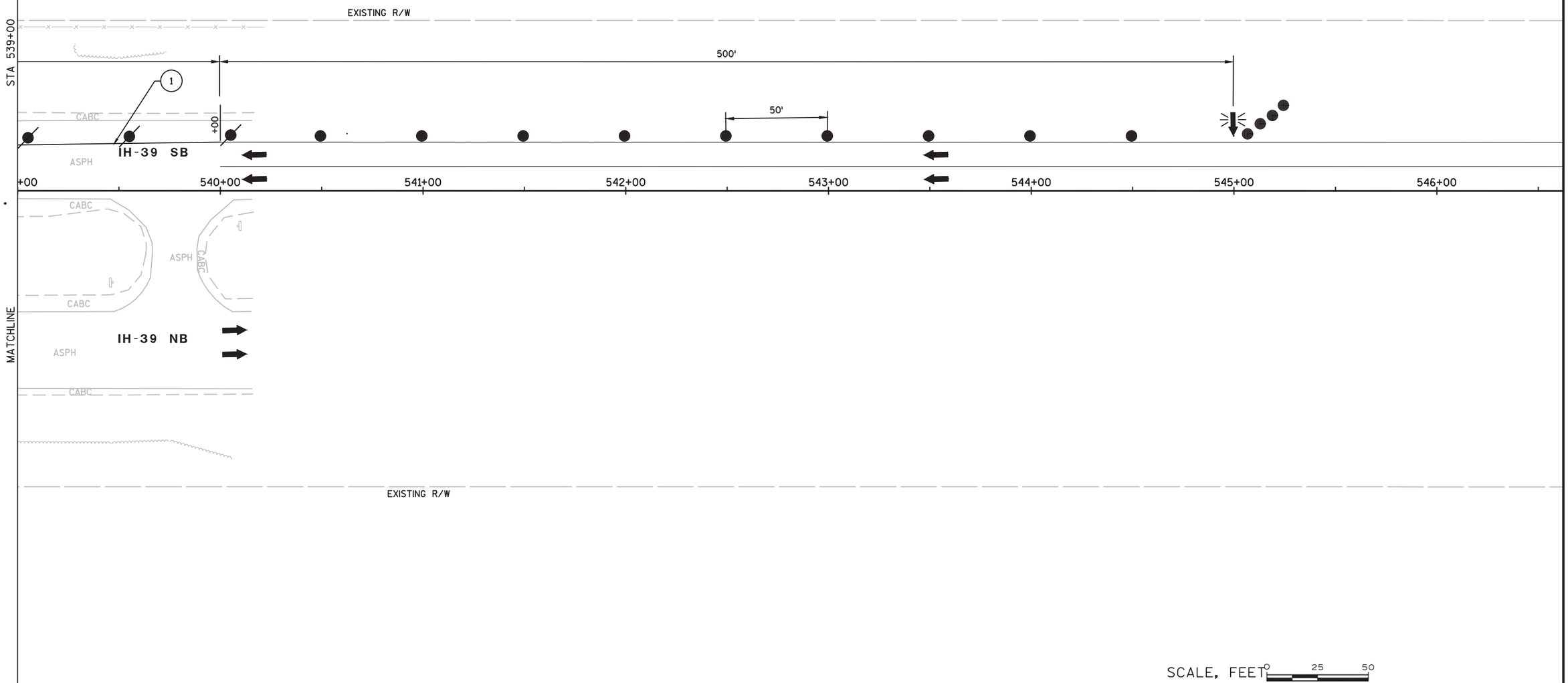
(1) REMOVABLE TAPE 4-INCH (WHITE)

(2) REMOVABLE TAPE 4-INCH (YELLOW)

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N



SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 1B	SHEET 37	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026001_S1B.DWG PLOT DATE : 1/27/2016 10:57 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)

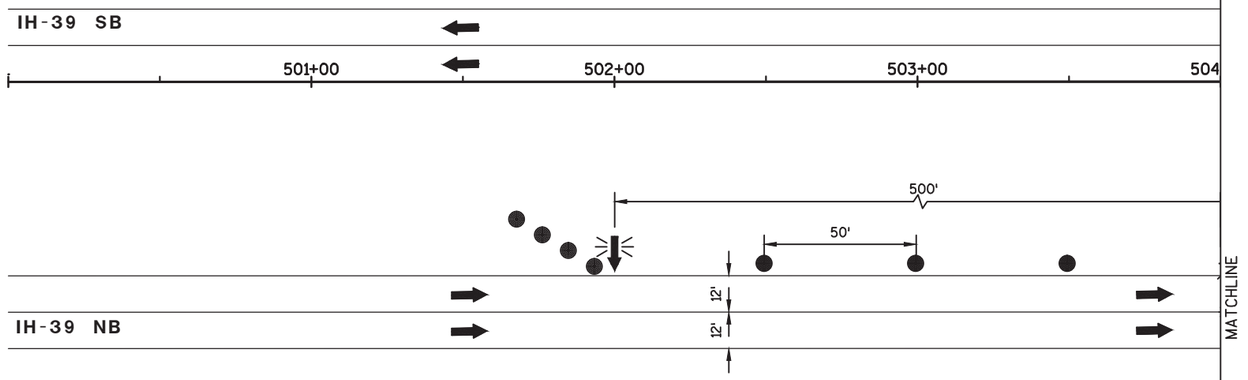
STAGE 2A NOTES:

1. SHIFT TRAFFIC TO WIDENED SB INSIDE LANE.
2. INSTALL TWIN 58X91-INCH SSPRCHE FROM WEST END TO 13' LT.
3. EXISTING PIPE TO REMAIN.
4. INSTALL BASE AGGREGATE AND HMA FOR FINISHED RAMP TAPER.
5. FILL THE EXISTING RUMBLE STRIPS IN THE NB INSIDE SHOULDERS.
6. CONSTRUCT TEMPORARY WIDENING ON THE NB INSIDE LANE.
7. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N



SCALE, FEET 0 25 50

PROJECT NO:1160-00-65	HWY:IH-39	COUNTY:PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 2A	SHEET 38	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026002_S2A.DWG PLOT DATE : 1/27/2016 10:58 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

TEMPORARY PAVEMENT MARKING LEGEND

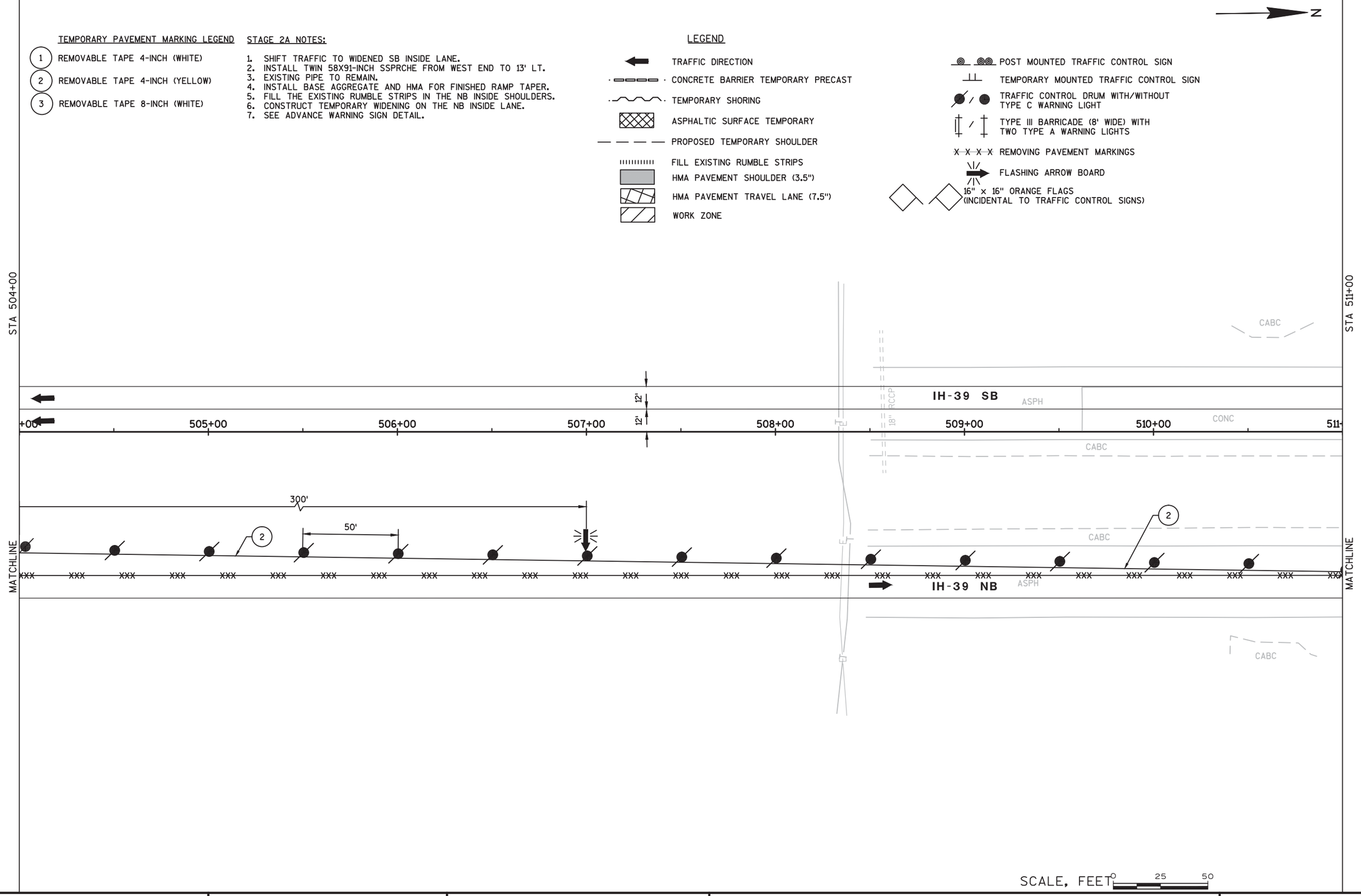
1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)

STAGE 2A NOTES:

1. SHIFT TRAFFIC TO WIDENED SB INSIDE LANE.
2. INSTALL TWIN 58X91-INCH SSPRCHE FROM WEST END TO 13' LT.
3. EXISTING PIPE TO REMAIN.
4. INSTALL BASE AGGREGATE AND HMA FOR FINISHED RAMP TAPER.
5. FILL THE EXISTING RUMBLE STRIPS IN THE NB INSIDE SHOULDERS.
6. CONSTRUCT TEMPORARY WIDENING ON THE NB INSIDE LANE.
7. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)



PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 2A	SHEET 39	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026002_S2A.DWG PLOT DATE : 1/27/2016 10:58 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

TEMPORARY PAVEMENT MARKING LEGEND

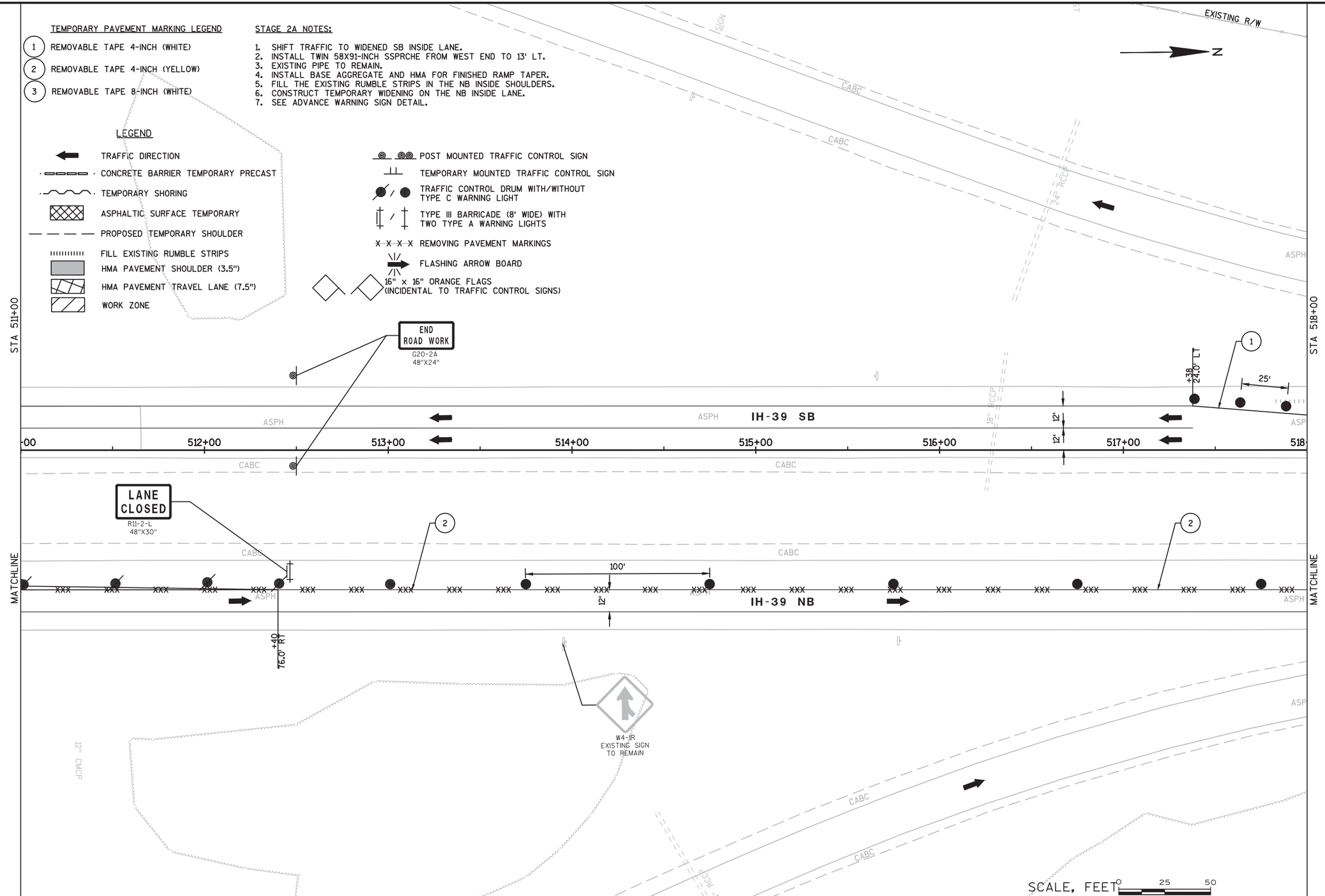
1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)

STAGE 2A NOTES:

1. SHIFT TRAFFIC TO WIDENED SB INSIDE LANE.
2. INSTALL TWIN 58X91-INCH SSPRCHE FROM WEST END TO 13' LT.
3. EXISTING PIPE TO REMAIN.
4. INSTALL BASE AGGREGATE AND HMA FOR FINISHED RAMP TAPER.
5. FILL THE EXISTING RUMBLE STRIPS IN THE NB INSIDE SHOULDERS.
6. CONSTRUCT TEMPORARY WIDENING ON THE NB INSIDE LANE.
7. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)



PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 2A	SHEET 40	E

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

STAGE 2A NOTES:

1. SHIFT TRAFFIC TO WIDENED SB INSIDE LANE.
2. INSTALL TWIN 58X91-INCH SSPRCHE FROM WEST END TO 13' LT.
3. EXISTING PIPE TO REMAIN.
4. INSTALL BASE AGGREGATE AND HMA FOR FINISHED RAMP TAPER.
5. FILL THE EXISTING RUMBLE STRIPS IN THE NB INSIDE SHOULDERS.
6. CONSTRUCT TEMPORARY WIDENING ON THE NB INSIDE LANE.
7. SEE ADVANCE WARNING SIGN DETAIL.

END ROAD WORK
G20-2A
48"X24"

LANE CLOSED
R11-2-L
48"X30"

ROAD WORK AHEAD
W20-1-A

EXIT
E5-1
60"X48"

W05-52R
18"X54"

SOUTH BRANCH TENMILE CREEK

SLOPE INTERCEPT

EXISTING 60" RCCP TO REMAIN

REMOVE FENCE

TEMPORARY SHORING

EXISTING 60" CMCP TO REMAIN

EXISTING R/W

TLE

IH-39 SB

IH-39 NB

STA 518+00

STA 525+00

519+00 520+00 521+00 522+00 523+00 524+00

MATCHLINE

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 2A	SHEET 41	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026002_S2A.DWG PLOT DATE : 1/27/2016 10:59 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)

STAGE 2A NOTES:

1. SHIFT TRAFFIC TO WIDENED SB INSIDE LANE.
2. INSTALL TWIN 58X91-INCH SSPRCHE FROM WEST END TO 13' LT.
3. EXISTING PIPE TO REMAIN.
4. INSTALL BASE AGGREGATE AND HMA FOR FINISHED RAMP TAPER.
5. FILL THE EXISTING RUMBLE STRIPS IN THE NB INSIDE SHOULDERS.
6. CONSTRUCT TEMPORARY WIDENING ON THE NB INSIDE LANE.
7. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N

EXISTING R/W

SEE SDD CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" FOR BARRIER END TREATMENT (TYP)

LANE CLOSED
R11-2L
48" X 30"

STA 525+00

STA 532+00

526+00 527+00 528+00 529+00 530+00 531+00 532

IH-39 SB

IH-39 NB

100'

500'

25'

12'

+10

+35

+60

+57

+71 38.6' LT

6.7' RT

CABC

ASPH

RCCP

SIGN

POST

MATCHLINE

EXISTING R/W

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 2A	SHEET 42	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026002_S2A.DWG PLOT DATE : 1/27/2016 10:59 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)

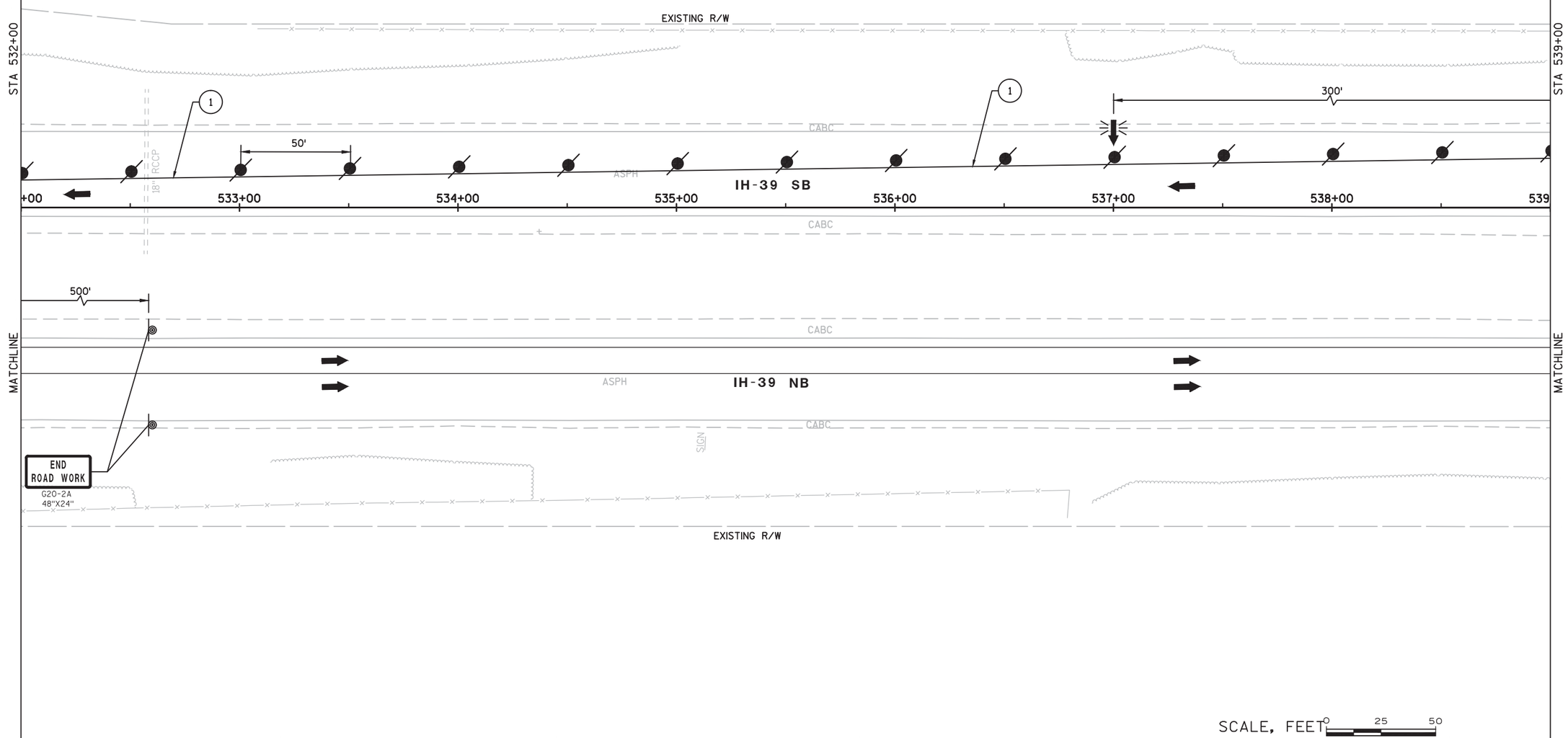
STAGE 2A NOTES:

1. SHIFT TRAFFIC TO WIDENED SB INSIDE LANE.
2. INSTALL TWIN 58X91-INCH SSPRCHE FROM WEST END TO 13' LT.
3. EXISTING PIPE TO REMAIN.
4. INSTALL BASE AGGREGATE AND HMA FOR FINISHED RAMP TAPER.
5. FILL THE EXISTING RUMBLE STRIPS IN THE NB INSIDE SHOULDERS.
6. CONSTRUCT TEMPORARY WIDENING ON THE NB INSIDE LANE.
7. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N



SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 2A	SHEET 43	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026002_S2A.DWG PLOT DATE : 1/27/2016 10:59 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

2

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)

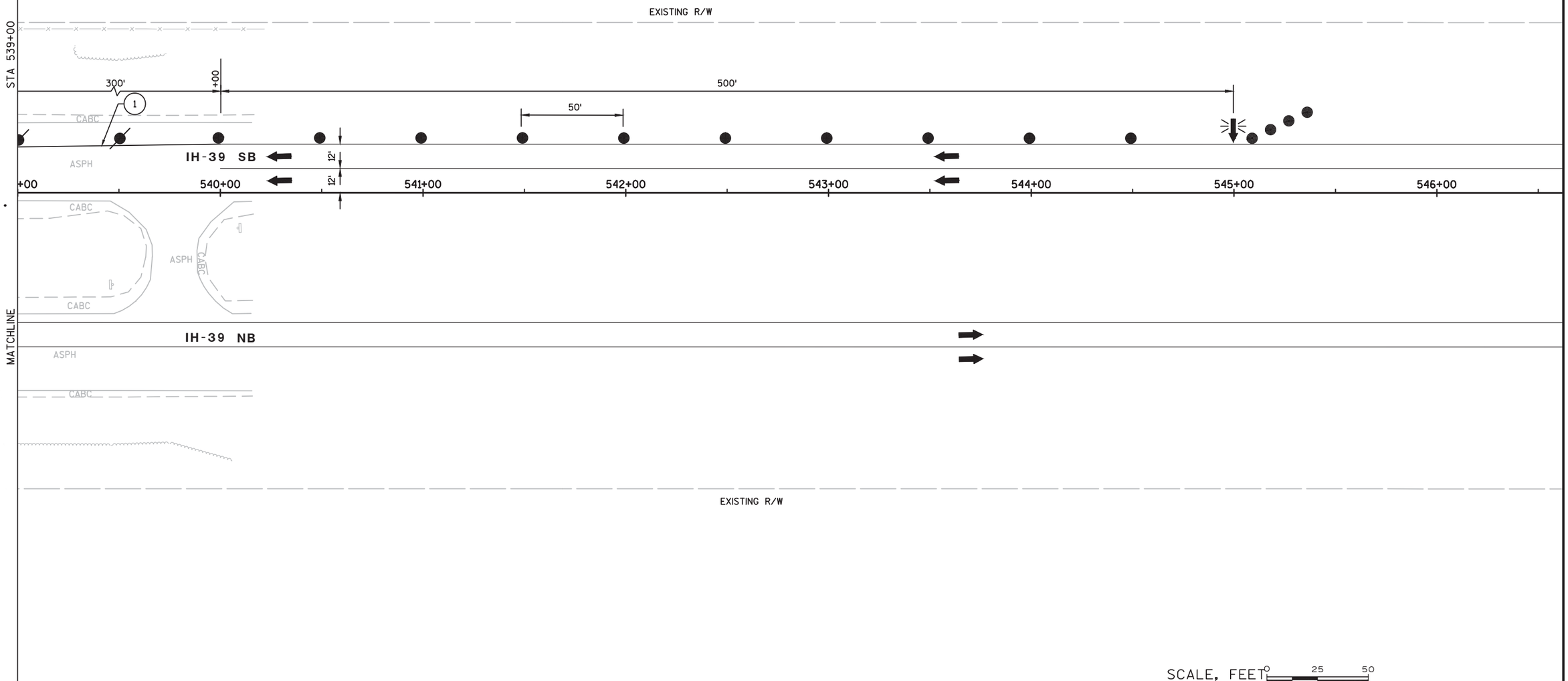
STAGE 2A NOTES:

1. SHIFT TRAFFIC TO WIDENED SB INSIDE LANE.
2. INSTALL TWIN 58X91-INCH SSPRCHE FROM WEST END TO 13' LT.
3. EXISTING PIPE TO REMAIN.
4. INSTALL BASE AGGREGATE AND HMA FOR FINISHED RAMP TAPER.
5. FILL THE EXISTING RUMBLE STRIPS IN THE NB INSIDE SHOULDERS.
6. CONSTRUCT TEMPORARY WIDENING ON THE NB INSIDE LANE.
7. SEE ADVANCE WARNING SIGN DETAIL.

N

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)



SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 2A	SHEET 44	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026002_S2A.DWG PLOT DATE : 1/27/2016 10:59 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

2

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)

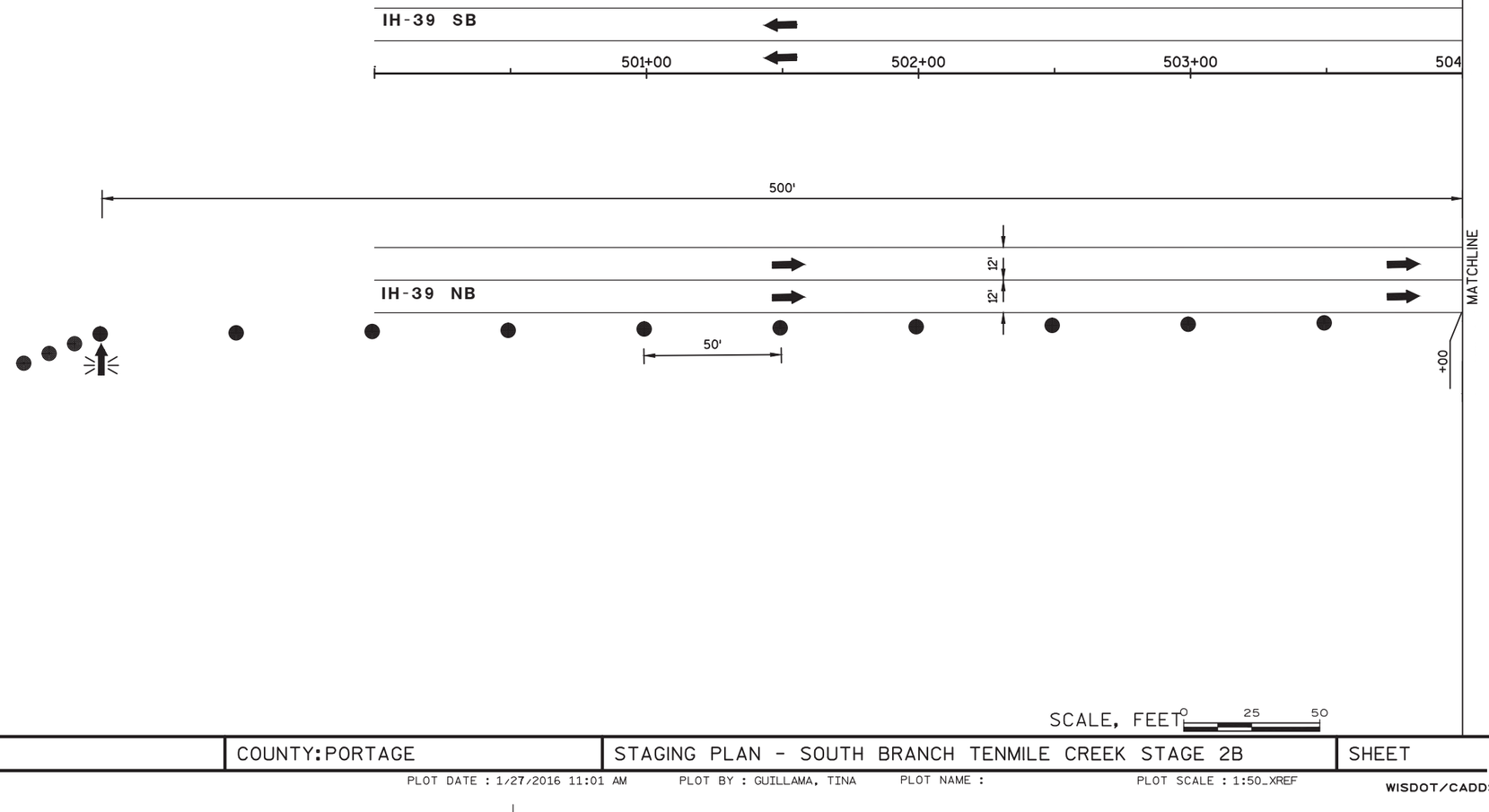
STAGE 2B NOTES:

1. FILL THE EXISTING RUMBLE STRIPS IN THE NB OUTSIDE SHOULDERS.
2. CONSTRUCT TEMPORARY WIDENING ON THE NB RAMP GORE AREA.
3. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N



PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 2B	SHEET 45	E

STAGE 2B NOTES:

1. FILL THE EXISTING RUMBLE STRIPS IN THE NB OUTSIDE SHOULDERS.
2. CONSTRUCT TEMPORARY WIDENING ON THE NB RAMP GORE AREA.
3. SEE ADVANCE WARNING SIGN DETAIL.

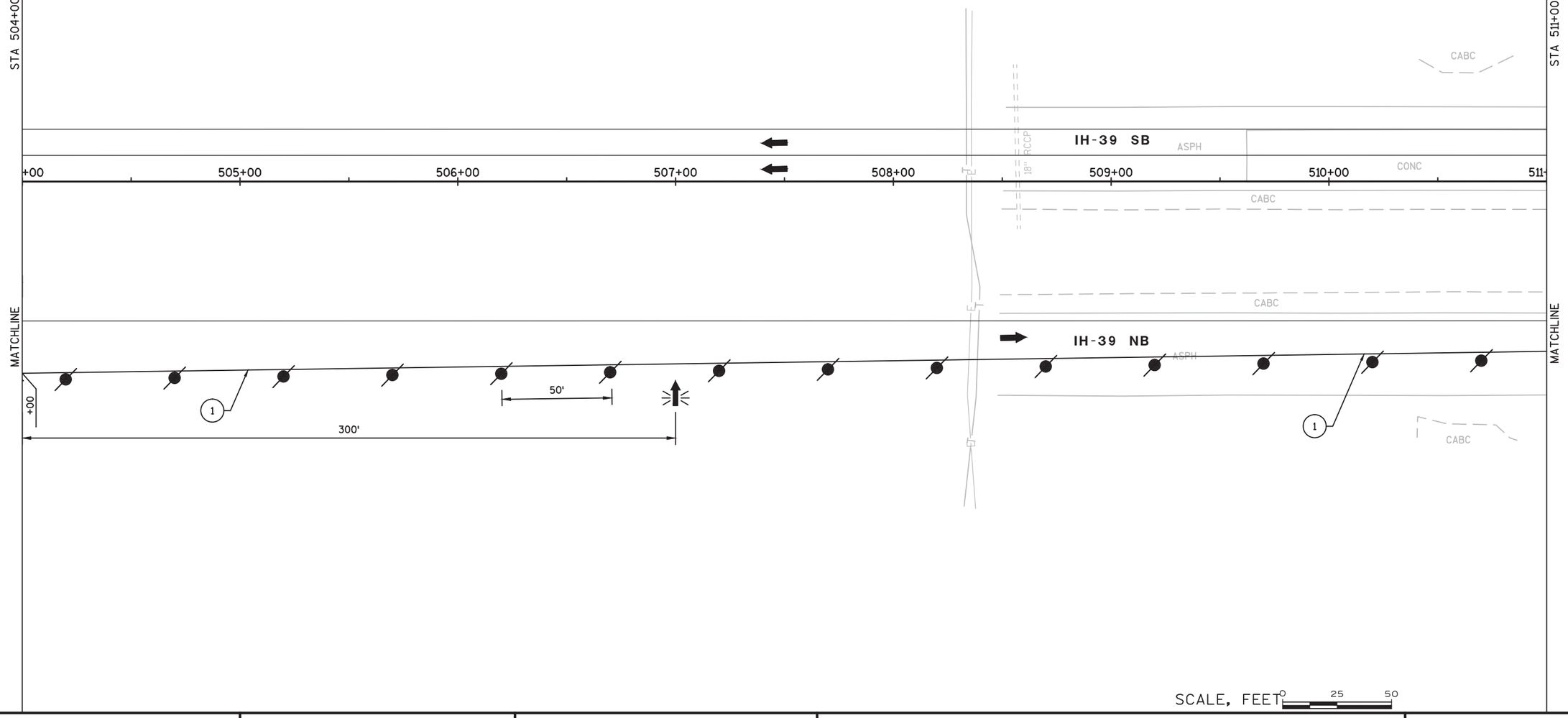
TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N



PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 2B	SHEET 46	E

TEMPORARY PAVEMENT MARKING LEGEND

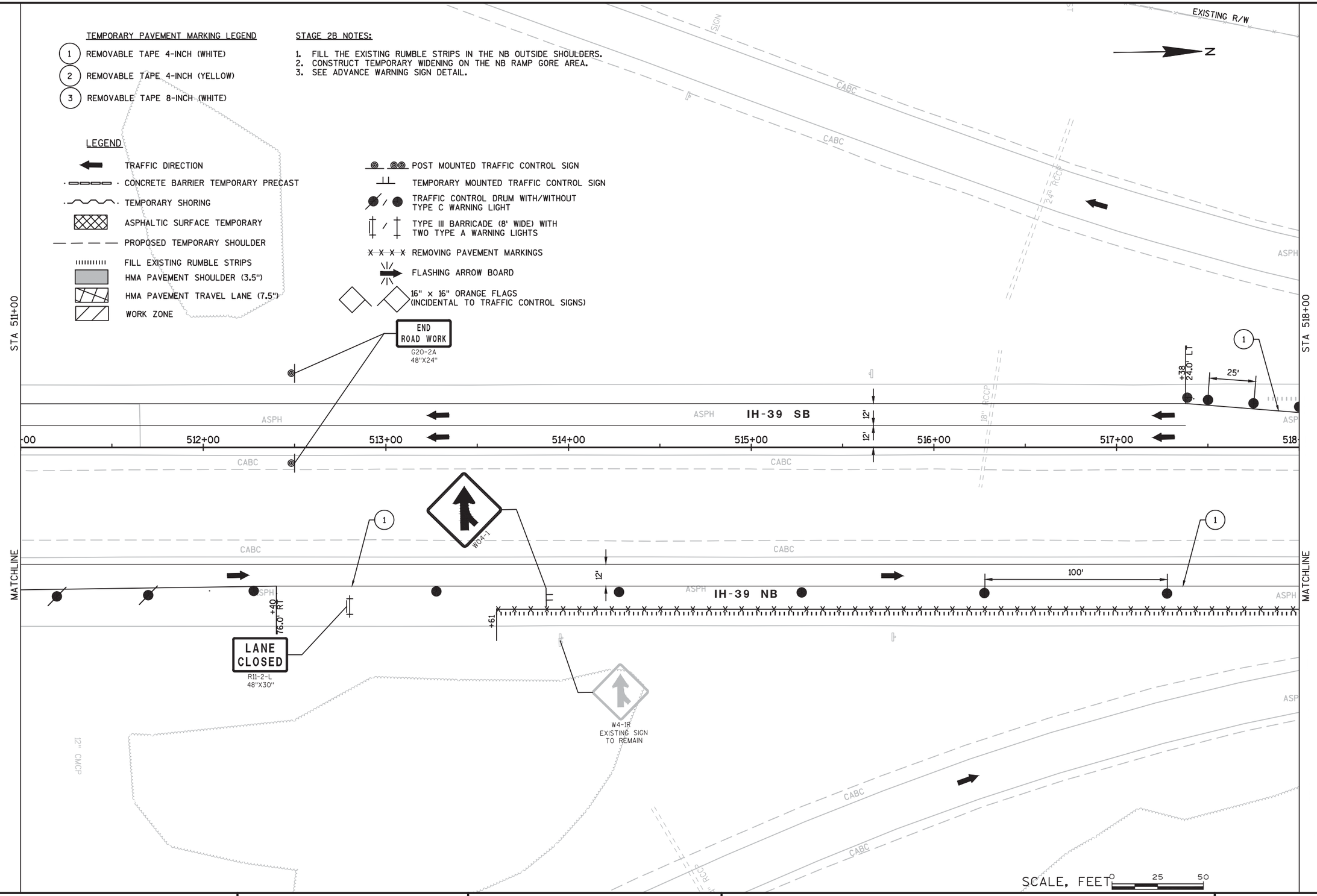
1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)

STAGE 2B NOTES:

1. FILL THE EXISTING RUMBLE STRIPS IN THE NB OUTSIDE SHOULDERS.
2. CONSTRUCT TEMPORARY WIDENING ON THE NB RAMP GORE AREA.
3. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)



PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 2B	SHEET 47	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026002_S2B.DWG PLOT DATE : 1/27/2016 11:02 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

STAGE 2B NOTES:

1. FILL THE EXISTING RUMBLE STRIPS IN THE NB OUTSIDE SHOULDERS.
2. CONSTRUCT TEMPORARY WIDENING ON THE NB RAMP GORE AREA.
3. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)

N

END ROAD WORK
G20-2A
48"X24"

EXIT
E5-1
60"X48"

ROAD WORK AHEAD
W20-1-A

W05-52R
18"X54"

STA 518+00

STA 525+00

MATCHLINE

MATCHLINE

SOUTH BRANCH TENMILE CREEK

EXISTING R/W

EXISTING R/W

SLOPE INTERCEPT

REMOVE FENCE

EXISTING 60" RCCP TO REMAIN

EXISTING 60" CMCP TO REMAIN

TEMPORARY SHORING

TLE

IH-39 SB

IH-39 NB

519+00 520+00 521+00 522+00 523+00 524+00

500'

50'

25'

15'

12'

+93 12.0' LT

+88 12.0' LT

+83 12.0' LT

+38

+30

+96

+16 7.2' LT

+20 7.3' LT

CABC

ASPH

SIGN

60" RCCP

60" CMCP

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 2B	SHEET 48	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026002_S2B.DWG PLOT DATE : 1/27/2016 11:02 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)

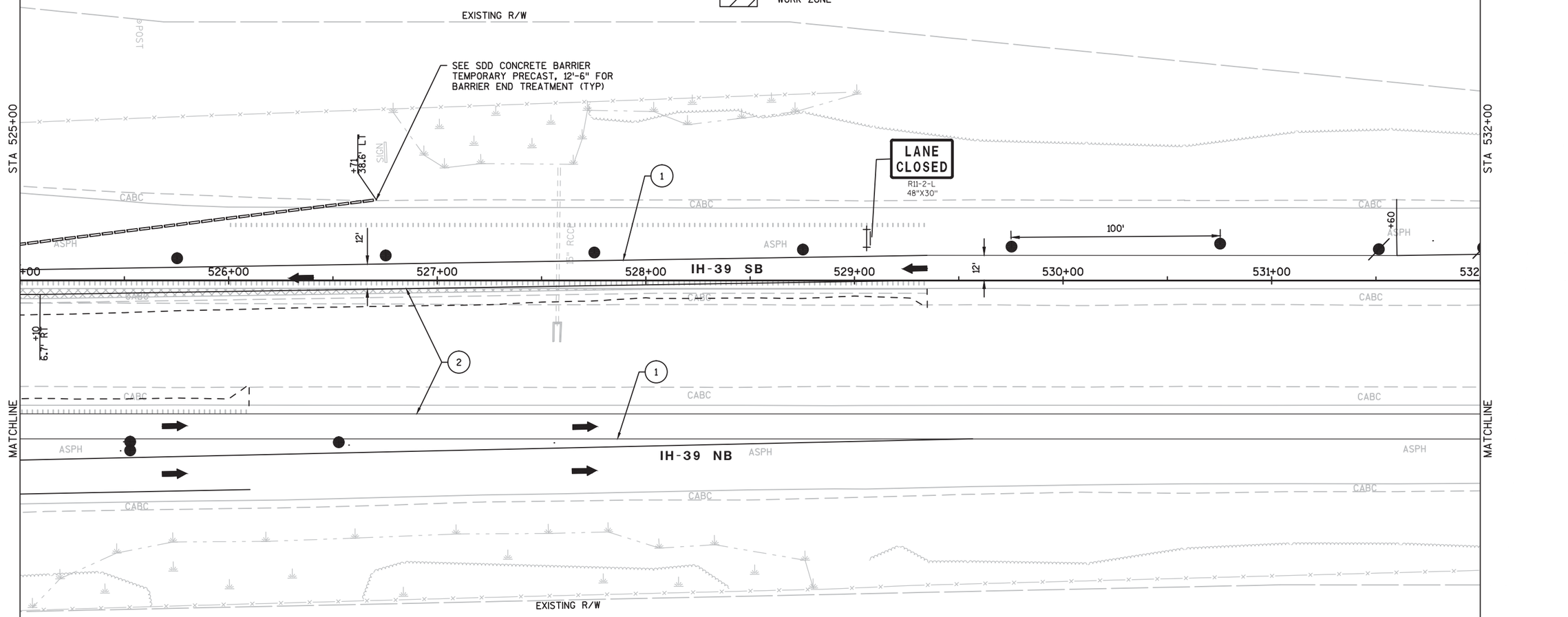
STAGE 2B NOTES:

1. FILL THE EXISTING RUMBLE STRIPS IN THE NB OUTSIDE SHOULDERS.
2. CONSTRUCT TEMPORARY WIDENING ON THE NB RAMP GORE AREA.
3. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N



SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 2B	SHEET 49	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026002_S2B.DWG PLOT DATE : 1/27/2016 11:02 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)

STAGE 2B NOTES:

1. FILL THE EXISTING RUMBLE STRIPS IN THE NB OUTSIDE SHOULDERS.
2. CONSTRUCT TEMPORARY WIDENING ON THE NB RAMP GORE AREA.
3. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
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- HMA PAVEMENT TRAVEL LANE (7.5")
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- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N

STA 532+00

STA 539+00

EXISTING R/W

1

1

300'

50'

CABC

18" RCCP

ASPH

IH-39 SB

+00

533+00

534+00

535+00

536+00

537+00

538+00

539

CABC

MATCHLINE

MATCHLINE

CABC

ASPH

IH-39 NB

CABC

SIGN

EXISTING R/W

END
ROAD WORK
G20-2A
48"X24"

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 2B	SHEET 50	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026002_S2B.DWG PLOT DATE : 1/27/2016 11:02 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

2

2

N

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)

STAGE 2B NOTES:

1. FILL THE EXISTING RUMBLE STRIPS IN THE NB OUTSIDE SHOULDERS.
2. CONSTRUCT TEMPORARY WIDENING ON THE NB RAMP GORE AREA.
3. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
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- POST MOUNTED TRAFFIC CONTROL SIGN
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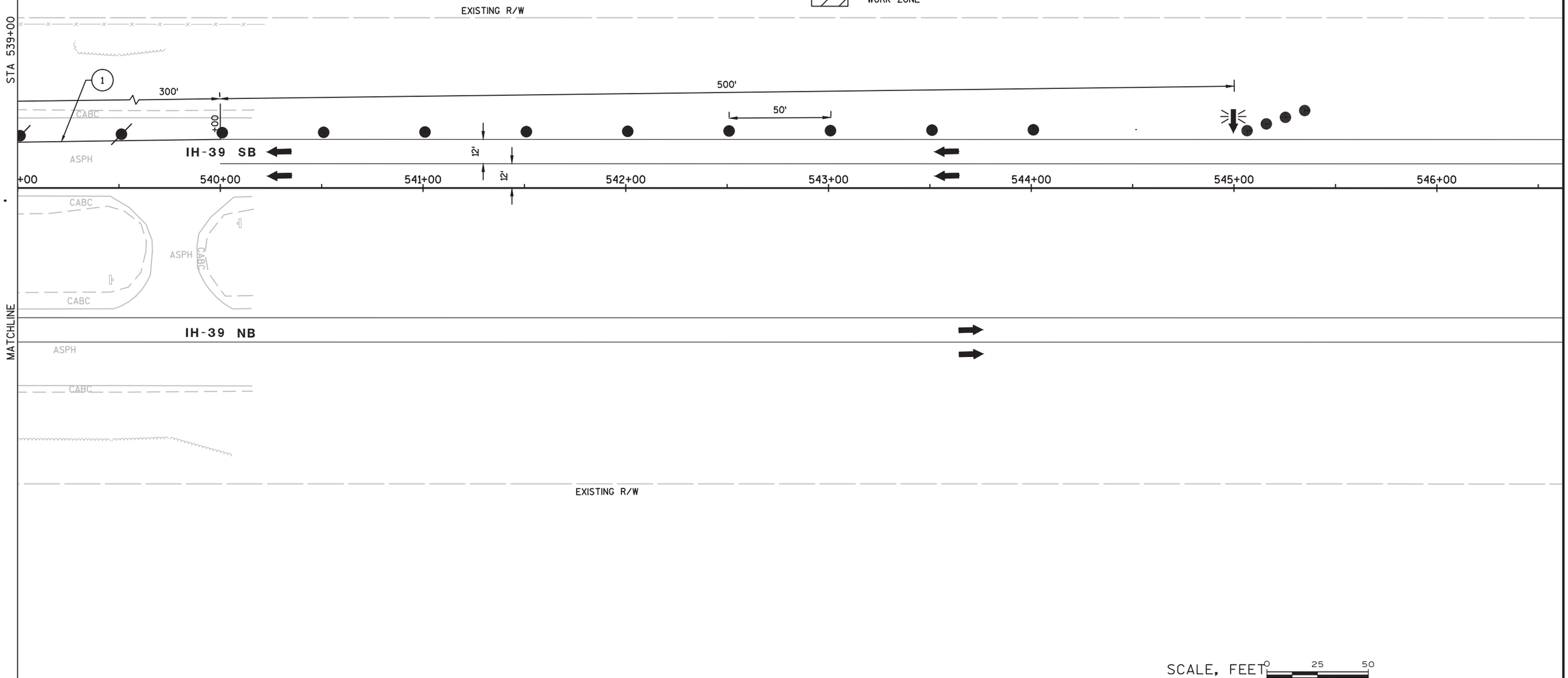
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)



SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 2B	SHEET 51	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026002_S2B.DWG PLOT DATE : 1/27/2016 11:03 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING

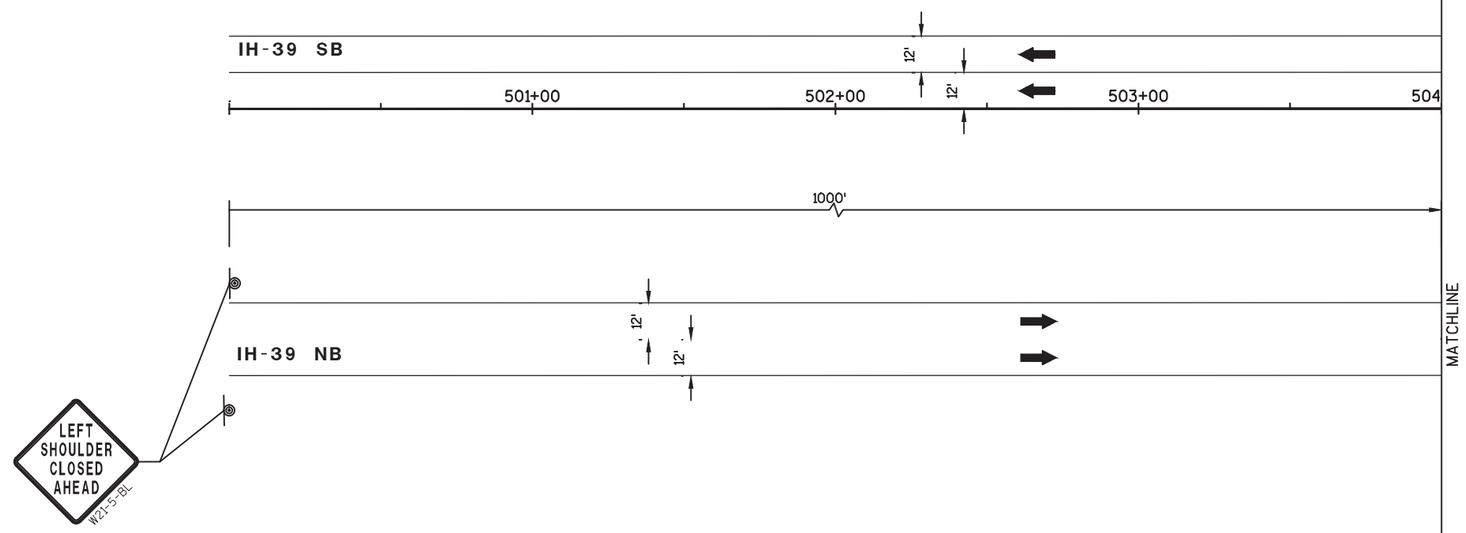
STAGE 3A NOTES:

1. SHIFT TRAFFIC TO IH-39 SB OUTSIDE LANE.
2. INSTALL TWIN 58X91-INCH SSPRCHE FROM 13' LT TO MEDIAN INLET.
3. INSTALL BASE AGGREGATE AND HMA FOR FINISHED SB TRAVEL LANES.
4. RESTORE SB INSIDE SHOULDER FILL SLOPES TO FINAL CROSS SECTIONS.
5. SEE ADVANCE WARNING SIGN DETAIL.

N

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)



SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 3A	SHEET 52	E

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING

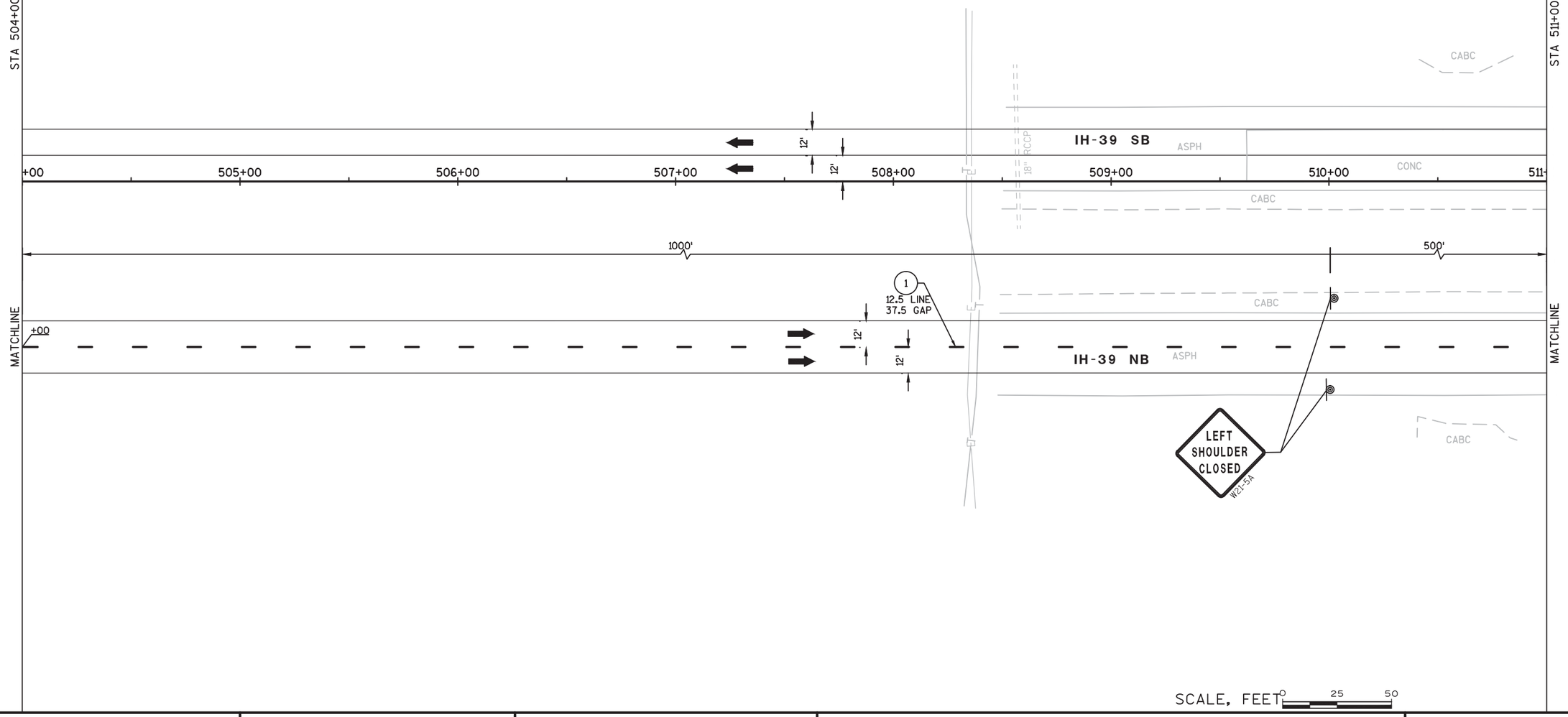
STAGE 3A NOTES:

1. SHIFT TRAFFIC TO IH-39 SB OUTSIDE LANE.
2. INSTALL TWIN 58X91-INCH SSPRCHE FROM 13' LT TO MEDIAN INLET.
3. INSTALL BASE AGGREGATE AND HMA FOR FINISHED SB TRAVEL LANES.
4. RESTORE SB INSIDE SHOULDER FILL SLOPES TO FINAL CROSS SECTIONS.
5. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N



SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 3A	SHEET 53	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026003_S3A.DWG PLOT DATE : 1/27/2016 11:04 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

LEGEND

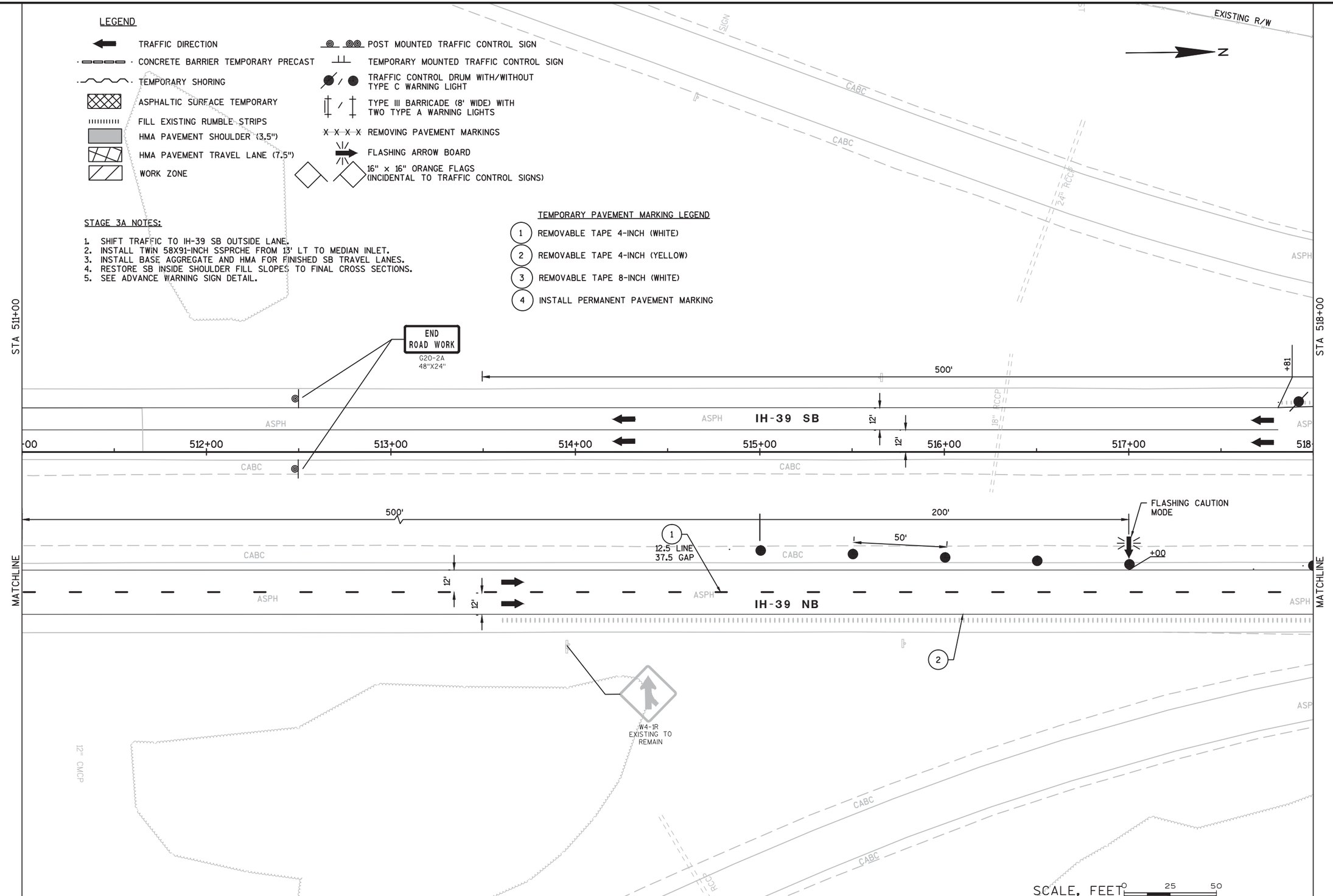
- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

STAGE 3A NOTES:

1. SHIFT TRAFFIC TO IH-39 SB OUTSIDE LANE.
2. INSTALL TWIN 58X91-INCH SSPRCHE FROM 13' LT TO MEDIAN INLET.
3. INSTALL BASE AGGREGATE AND HMA FOR FINISHED SB TRAVEL LANES.
4. RESTORE SB INSIDE SHOULDER FILL SLOPES TO FINAL CROSS SECTIONS.
5. SEE ADVANCE WARNING SIGN DETAIL.

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING



PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 3A	SHEET 54	E

STAGE 3A NOTES:

1. SHIFT TRAFFIC TO IH-39 SB OUTSIDE LANE.
2. INSTALL TWIN 58X91-INCH SSPRCHE FROM 13' LT TO MEDIAN INLET.
3. INSTALL BASE AGGREGATE AND HMA FOR FINISHED SB TRAVEL LANES.
4. RESTORE SB INSIDE SHOULDER FILL SLOPES TO FINAL CROSS SECTIONS.
5. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING

N

END ROAD WORK
G20-2A
48"X24"

500'

W01-6
48" X 24"

EXIT
E5-1
60"X48"

EXISTING 60" RCCP TO REMAIN

EXISTING R/W

SOUTH BRANCH TENMILE CREEK

SLOPE INTERCEPT

5730' RADIUS CURVE

TEMPORARY SHORING

3' LINE
9' GAP

W05-52L
18"X54"

STA 518+00

STA 525+00

CABC

SIGN

+25
16.4' LT

25'

12'

+39
23.9' LT

+09
40.0' LT

+10

+38
25.1' LT

+20

+20
27.3' LT

+87
37.7' LT

IH-39 SB

ASPH

519+00

520+00

521+00

522+00

523+00

524+00

525

24.0'

25.0'

SLOPE INTERCEPT

100'

12.5 LINE
37.5 GAP

MATCHLINE

+55
51.5' RT

+40
62.0' RT

+10
62.0' RT

60" CMCP

IH-39 NB

SEE SDD CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" FOR BARRIER END TREATMENT (TYP).

W05-52L
18"X54"

SLOPE INTERCEPT

TLE

ROAD WORK AHEAD
W20-1-A

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 3A	SHEET 55	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026003_S3A.DWG PLOT DATE : 1/27/2016 11:05 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

TEMPORARY PAVEMENT MARKING LEGEND

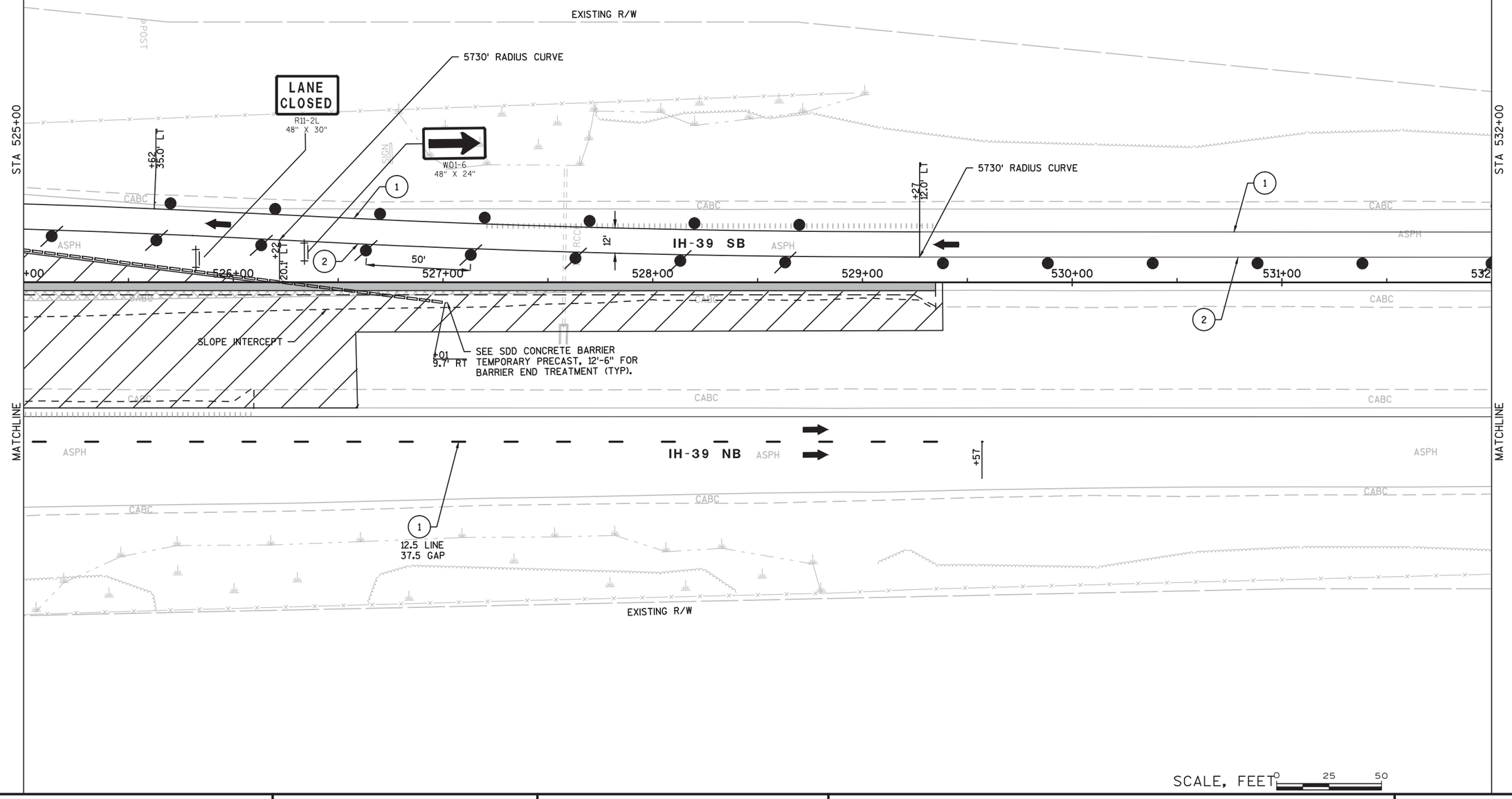
1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING

STAGE 3A NOTES:

1. SHIFT TRAFFIC TO IH-39 SB OUTSIDE LANE.
2. INSTALL TWIN 58X91-INCH SSPRCHE FROM 13' LT TO MEDIAN INLET.
3. INSTALL BASE AGGREGATE AND HMA FOR FINISHED SB TRAVEL LANES.
4. RESTORE SB INSIDE SHOULDER FILL SLOPES TO FINAL CROSS SECTIONS.
5. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)



PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 3A	SHEET 56	E

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING

STAGE 3A NOTES:

1. SHIFT TRAFFIC TO IH-39 SB OUTSIDE LANE.
2. INSTALL TWIN 58X91-INCH SSPRCHE FROM 13' LT TO MEDIAN INLET.
3. INSTALL BASE AGGREGATE AND HMA FOR FINISHED SB TRAVEL LANES.
4. RESTORE SB INSIDE SHOULDER FILL SLOPES TO FINAL CROSS SECTIONS.
5. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N

STA 532+00

STA 539+00

EXISTING R/W

W024-1R

55 M.P.H.

W013-1
36" X 36"

+00
12.0' LT

18" RCCP

CABC

50'

ASPH

IH-39 SB

+00 | 533+00 | 534+00 | 535+00 | 536+00 | 537+00 | 538+00 | 539

300'

2

CABC

MATCHLINE

ASPH

IH-39 NB

CABC

SIGN

EXISTING R/W

MATCHLINE

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 3A	SHEET 57	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026003_S3A.DWG PLOT DATE : 1/27/2016 11:05 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING

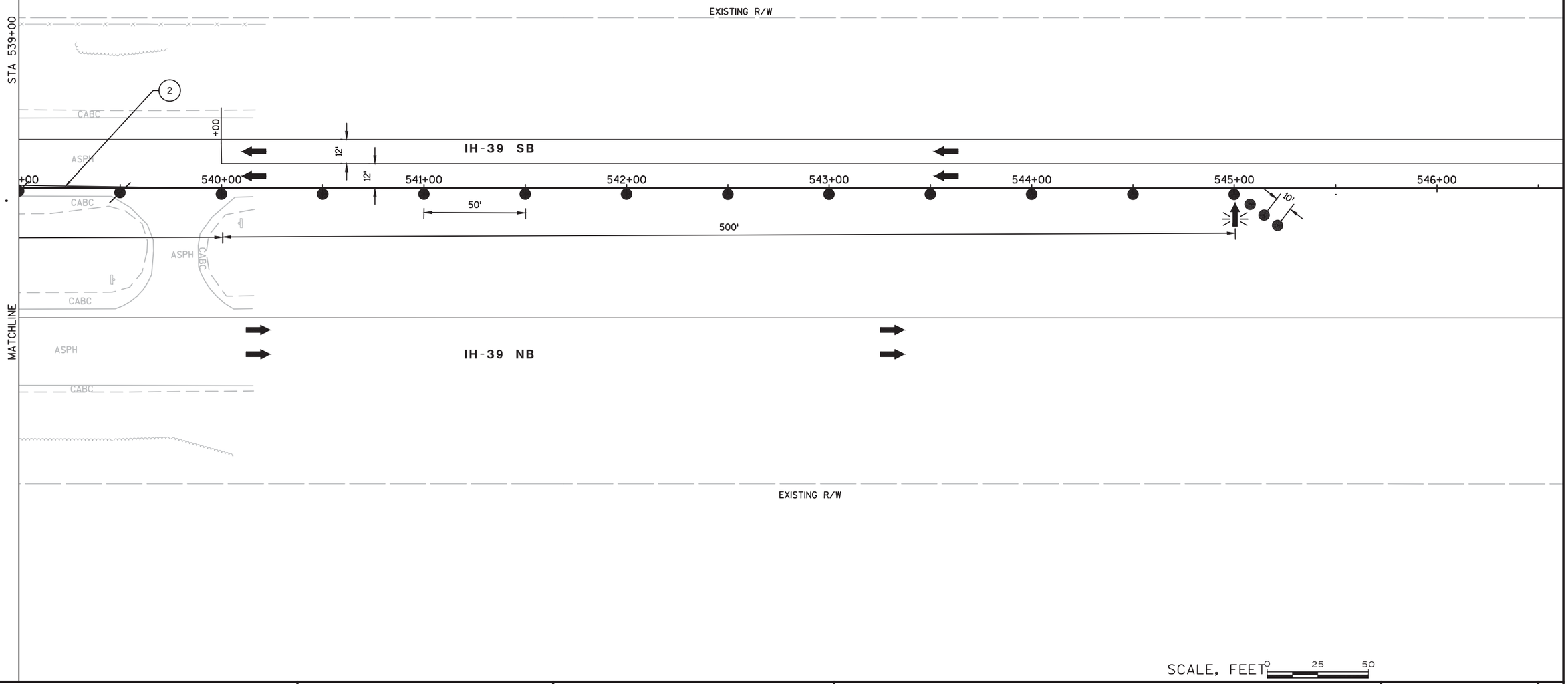
STAGE 3A NOTES:

1. SHIFT TRAFFIC TO IH-39 SB OUTSIDE LANE.
2. INSTALL TWIN 58X91-INCH SSPRCHE FROM 13' LT TO MEDIAN INLET.
3. INSTALL BASE AGGREGATE AND HMA FOR FINISHED SB TRAVEL LANES.
4. RESTORE SB INSIDE SHOULDER FILL SLOPES TO FINAL CROSS SECTIONS.
5. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N



SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 3A	SHEET 58	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026003_S3A.DWG PLOT DATE : 1/27/2016 11:05 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

2

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING

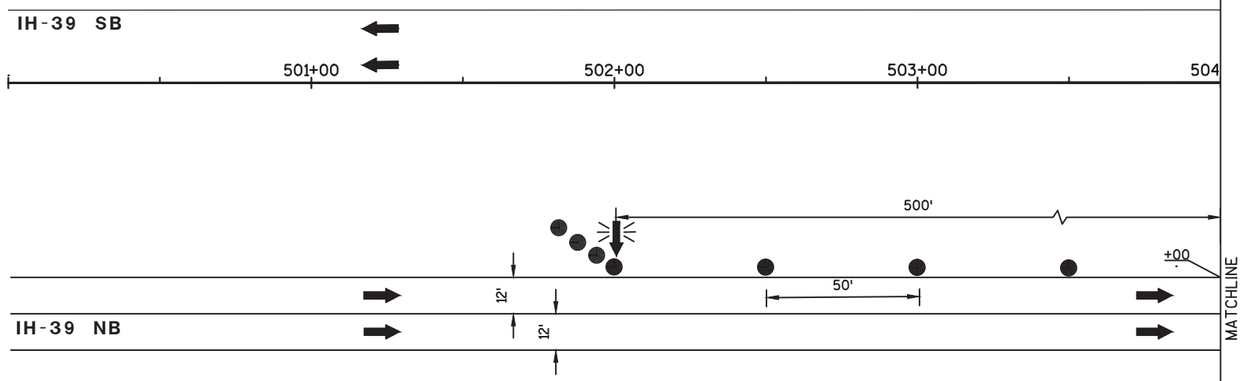
STAGE 3B NOTES:

1. SHIFT TRAFFIC TO IH-39 NB AND SB OUTSIDE LANES.
3. INSTALL CAST IN PLACE INLET.
4. INSTALL TWIN 58X91-INCH SSPRCHE FROM MEDIAN INLET TO 78' RT.
5. INSTALL ASPHALTIC SURFACE TEMPORARY FOR THE FINISHED NB TRAVEL LANES.
6. SEE ADVANCE WARNING SIGN DETAIL.

N

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)



SCALE, FEET 0 25 50

PROJECT NO:1160-00-65	HWY:IH-39	COUNTY:PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 3B	SHEET 59	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026003_S3B.DWG PLOT DATE : 1/27/2016 11:07 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING

STAGE 3B NOTES:

1. SHIFT TRAFFIC TO IH-39 NB AND SB OUTSIDE LANES.
3. INSTALL CAST IN PLACE INLET.
4. INSTALL TWIN 58X91-INCH SSPRCHE FROM MEDIAN INLET TO 78' RT.
5. INSTALL ASPHALTIC SURFACE TEMPORARY FOR THE FINISHED NB TRAVEL LANES.
6. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N

STA 504+00

STA 511+00

+00 505+00 506+00 507+00 508+00 509+00 510+00 511+

IH-39 SB

IH-39 NB

ASPH

CONC

CABC

18" RCCP

300'

50'

+00

2

MATCHLINE

MATCHLINE

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 3B	SHEET 60	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026003_S3B.DWG PLOT DATE : 1/27/2016 11:08 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

LEGEND

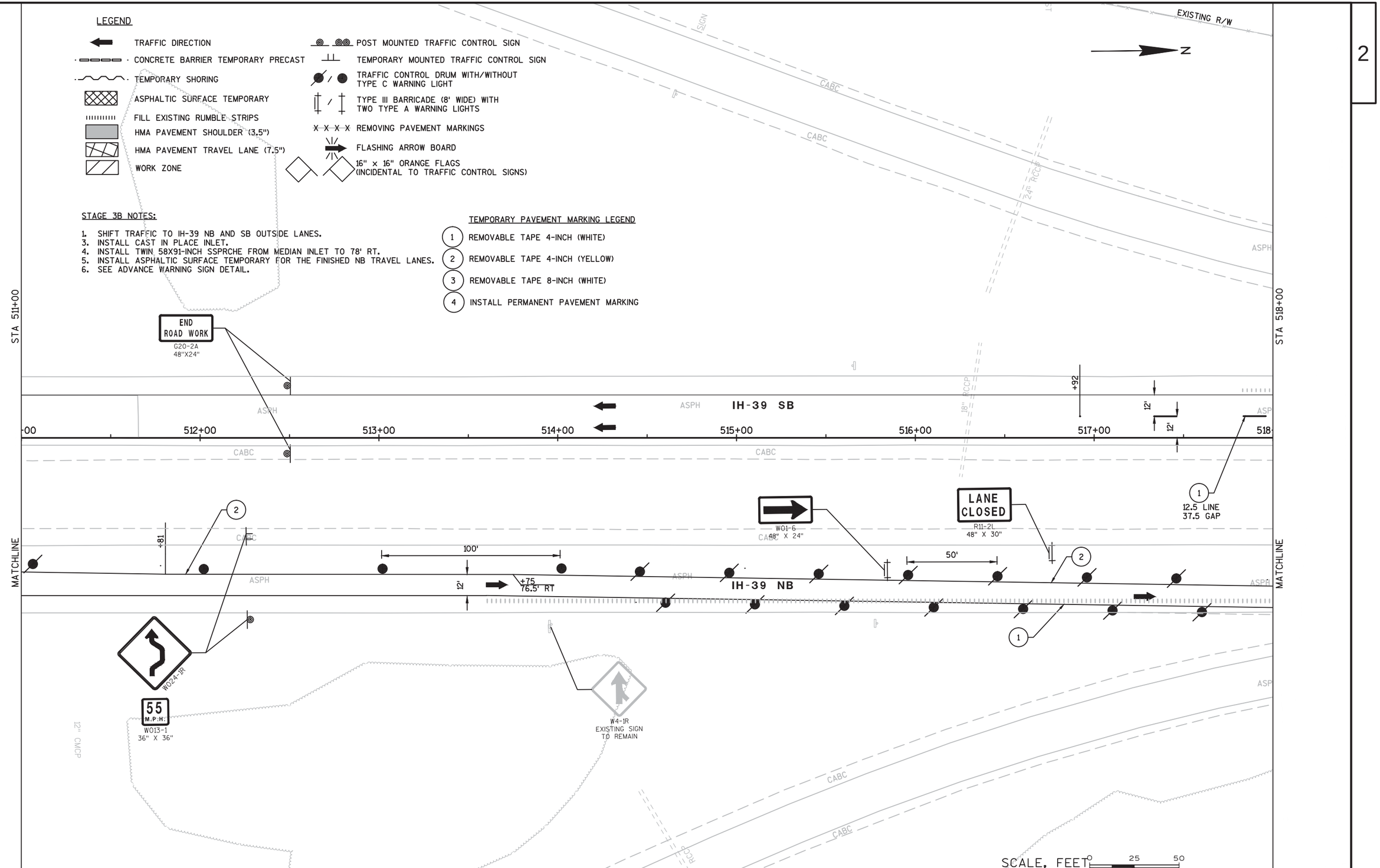
- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

STAGE 3B NOTES:

1. SHIFT TRAFFIC TO IH-39 NB AND SB OUTSIDE LANES.
3. INSTALL CAST IN PLACE INLET.
4. INSTALL TWIN 58X91-INCH SSPRCHE FROM MEDIAN INLET TO 78' RT.
5. INSTALL ASPHALTIC SURFACE TEMPORARY FOR THE FINISHED NB TRAVEL LANES.
6. SEE ADVANCE WARNING SIGN DETAIL.

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING



PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 3B	SHEET 61	E

STAGE 3B NOTES:

1. SHIFT TRAFFIC TO IH-39 NB AND SB OUTSIDE LANES.
3. INSTALL CAST IN PLACE INLET.
4. INSTALL TWIN 58X91-INCH SSPRCHE FROM MEDIAN INLET TO 78' RT.
5. INSTALL ASPHALTIC SURFACE TEMPORARY FOR THE FINISHED NB TRAVEL LANES.
6. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING

N

STA 518+00

STA 525+00

END ROAD WORK
G20-2A
48"X24"

500'

CABC

SIGN

EXIT
E5-1
60"X48"

EXISTING 60" RCCP TO REMAIN

EXISTING R/W

SLOPE INTERCEPT

SOUTH BRANCH TENMILE CREEK

SEE SDD CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" FOR BARRIER END TREATMENT (TYP).

W05-52L
18"X54"

12.5 LINE
37.5 GAP

IH-39 SB

ASPH

519+00 520+00 521+00 522+00 523+00 524+00

+92 515' RT

+60 515' RT

100'

SEE SDD CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" FOR BARRIER END TREATMENT (TYP).

SLOPE INTERCEPT

CAST IN PLACE INLET

+20 2.0' RT

+87 10.9' RT

MATCHLINE

50'

IH-39 NB

+40 88.3' RT

+40 86.3' RT

+10 86.2' RT

+06 98.2' RT

500'

500'

W05-52L
18"X54"

EXISTING 60" CMCP TO REMAIN

SLOPE INTERCEPT

TLE

YIELD
R1-2
48"X42"

W03-2

ROAD WORK AHEAD
W20-1-A

EXISTING R/W

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 3B	SHEET 62	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026003_S3B.DWG PLOT DATE : 1/27/2016 11:08 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

TEMPORARY PAVEMENT MARKING LEGEND

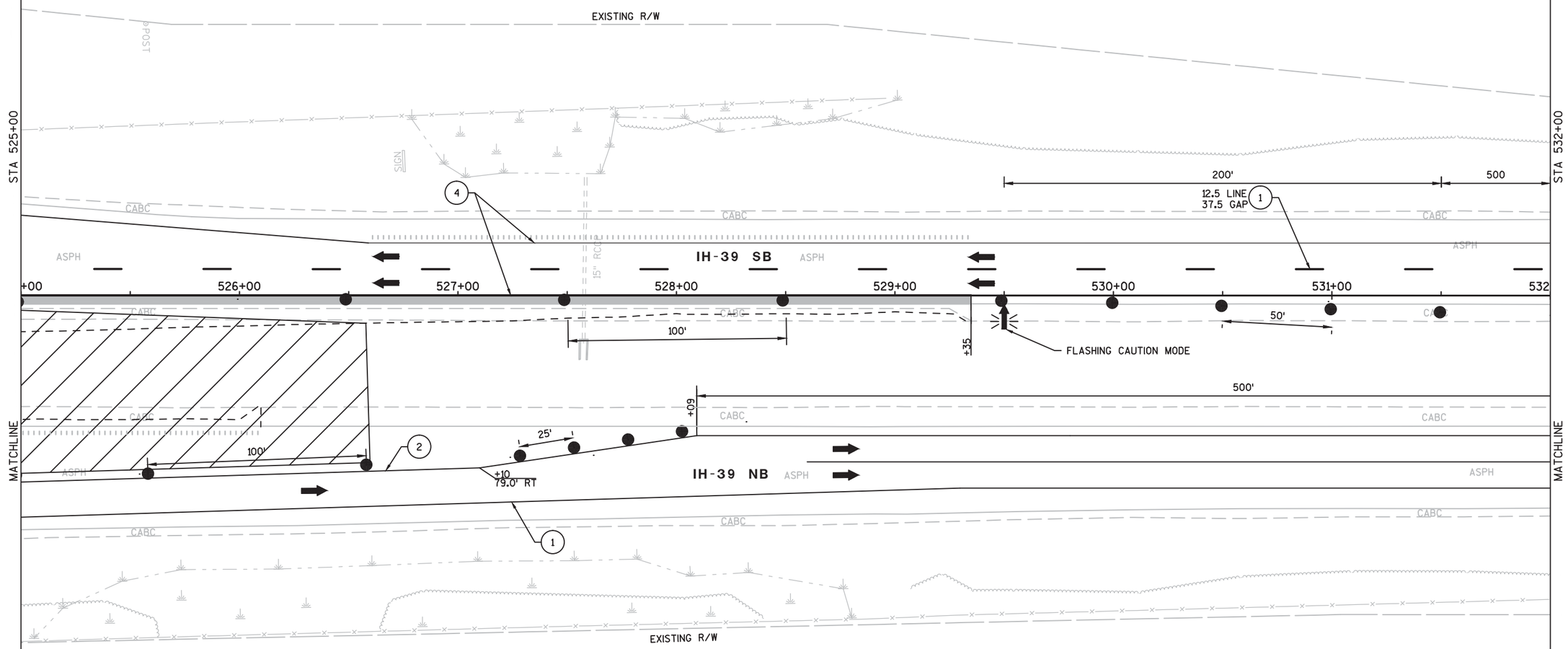
1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING

STAGE 3B NOTES:

1. SHIFT TRAFFIC TO IH-39 NB AND SB OUTSIDE LANES.
3. INSTALL CAST IN PLACE INLET.
4. INSTALL TWIN 58X91-INCH SSPRCHE FROM MEDIAN INLET TO 78' RT.
5. INSTALL ASPHALTIC SURFACE TEMPORARY FOR THE FINISHED NB TRAVEL LANES.
6. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)
- N



PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 3B	SHEET 63	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026003_S3B.DWG PLOT DATE : 1/27/2016 11:08 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING

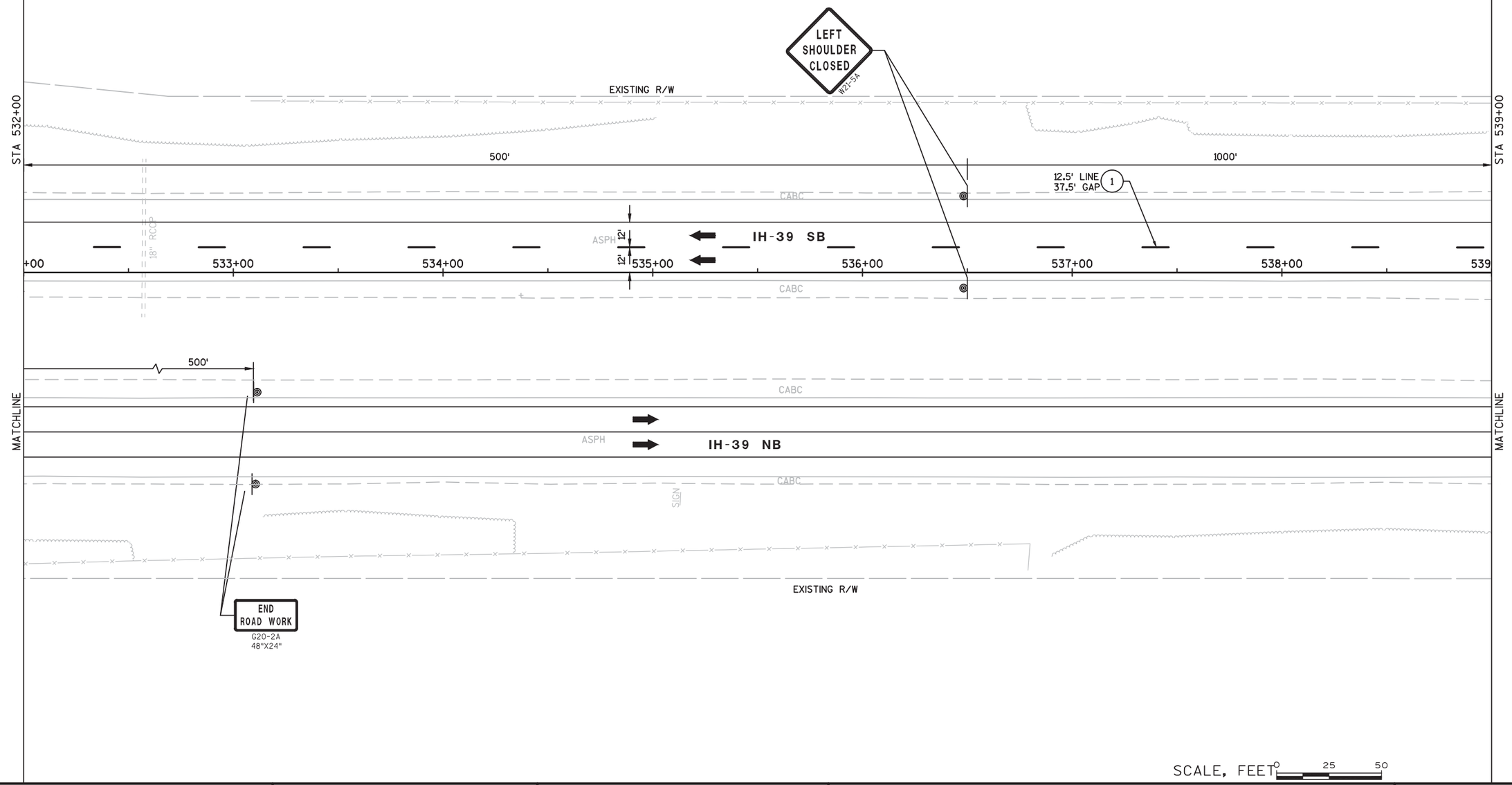
STAGE 3B NOTES:

1. SHIFT TRAFFIC TO IH-39 NB AND SB OUTSIDE LANES.
3. INSTALL CAST IN PLACE INLET.
4. INSTALL TWIN 58X91-INCH SSPRCHE FROM MEDIAN INLET TO 78' RT.
5. INSTALL ASPHALTIC SURFACE TEMPORARY FOR THE FINISHED NB TRAVEL LANES.
6. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N



SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 3B	SHEET 64	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026003_S3B.DWG PLOT DATE : 1/27/2016 11:08 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

2

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING

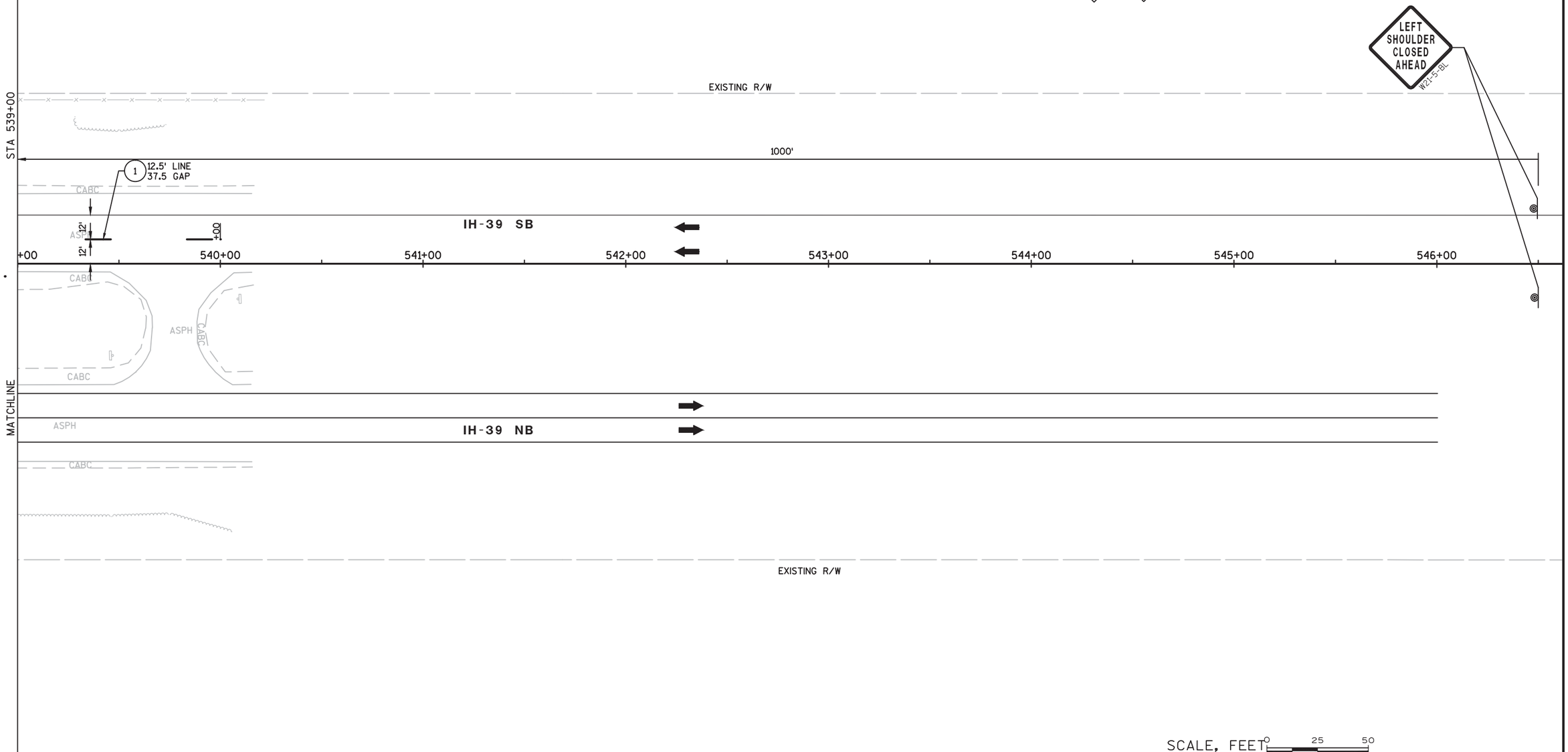
STAGE 3B NOTES:

1. SHIFT TRAFFIC TO IH-39 NB AND SB OUTSIDE LANES.
3. INSTALL CAST IN PLACE INLET.
4. INSTALL TWIN 58X91-INCH SSPRCHE FROM MEDIAN INLET TO 78' RT.
5. INSTALL ASPHALTIC SURFACE TEMPORARY FOR THE FINISHED NB TRAVEL LANES.
6. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N



SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 3B	SHEET 65	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026003_S3B.DWG PLOT DATE : 1/27/2016 11:09 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

STAGE 4 NOTES:

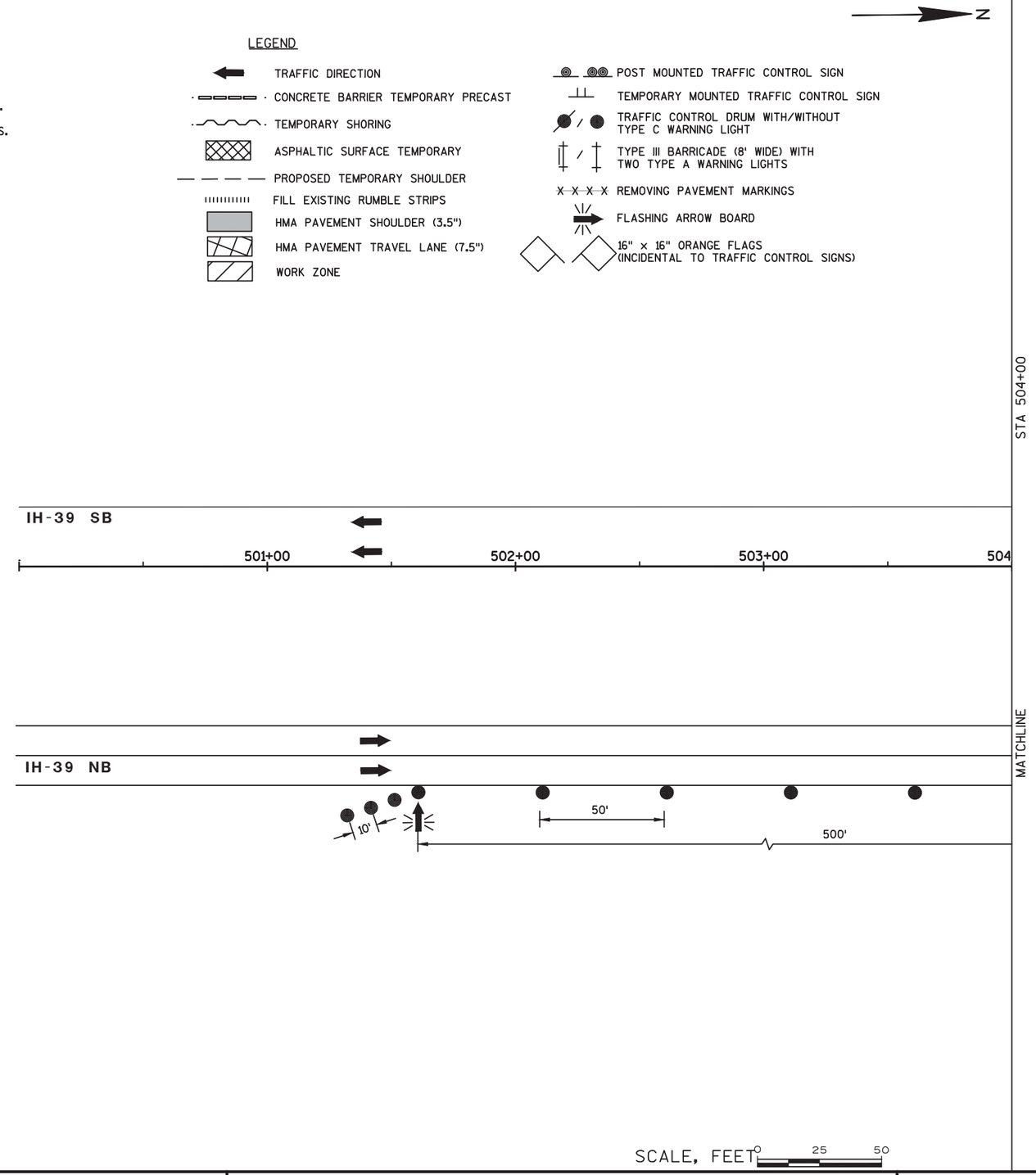
1. SHIFT TRAFFIC TO NB INSIDE LANE.
2. INSTALL TWIN 58X91-INCH SSPRCHE FROM 78' RT TO EAST END.
3. CONSTRUCT CONCRETE MASONRY ENDWALLS.
4. DIVERT CHANNEL TO COMPLETED TWIN 58X91-INCH SSPRCHE.
5. REMOVE EXISTING 60" CMCP CULVERT PIPES FROM EAST END TO 78' RT.
6. INSTALL BASE AGGREGATE AND HMA FOR FINISHED RAMP TAPER.
7. RESTORE NB OUTSIDE SHOULDER FILL SLOPES TO FINAL CROSS SECTIONS.
8. SEE ADVANCE WARNING SIGN DETAIL.

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)



PROJECT NO:1160-00-65	HWY:IH-39	COUNTY:PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 4	SHEET 66	E

STAGE 4 NOTES:

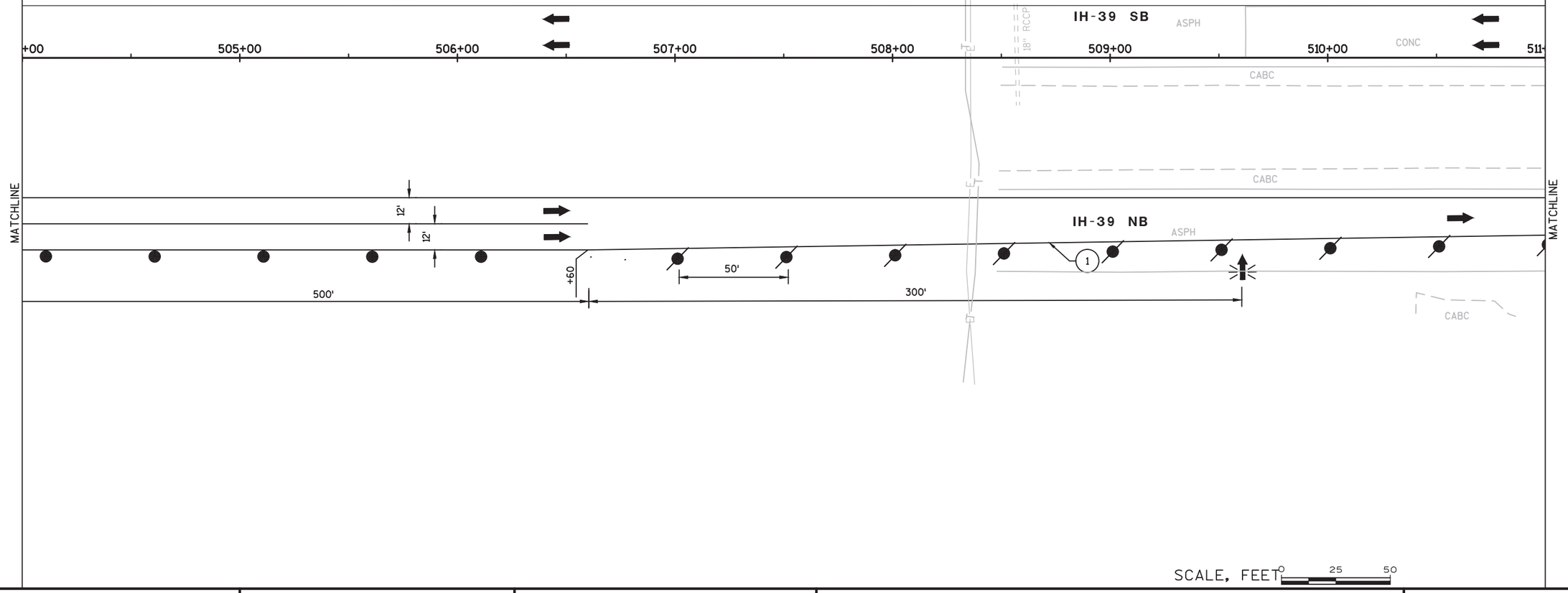
1. SHIFT TRAFFIC TO NB INSIDE LANE.
2. INSTALL TWIN 58X91-INCH SSPRCHE FROM 78' RT TO EAST END.
3. CONSTRUCT CONCRETE MASONRY ENDWALLS.
4. DIVERT CHANNEL TO COMPLETED TWIN 58X91-INCH SSPRCHE.
5. REMOVE EXISTING 60" CMCP CULVERT PIPES FROM EAST END TO 78' RT.
6. INSTALL BASE AGGREGATE AND HMA FOR FINISHED RAMP TAPER.
7. RESTORE NB OUTSIDE SHOULDER FILL SLOPES TO FINAL CROSS SECTIONS.
8. SEE ADVANCE WARNING SIGN DETAIL.

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)



PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 4	SHEET 67	E

LEGEND

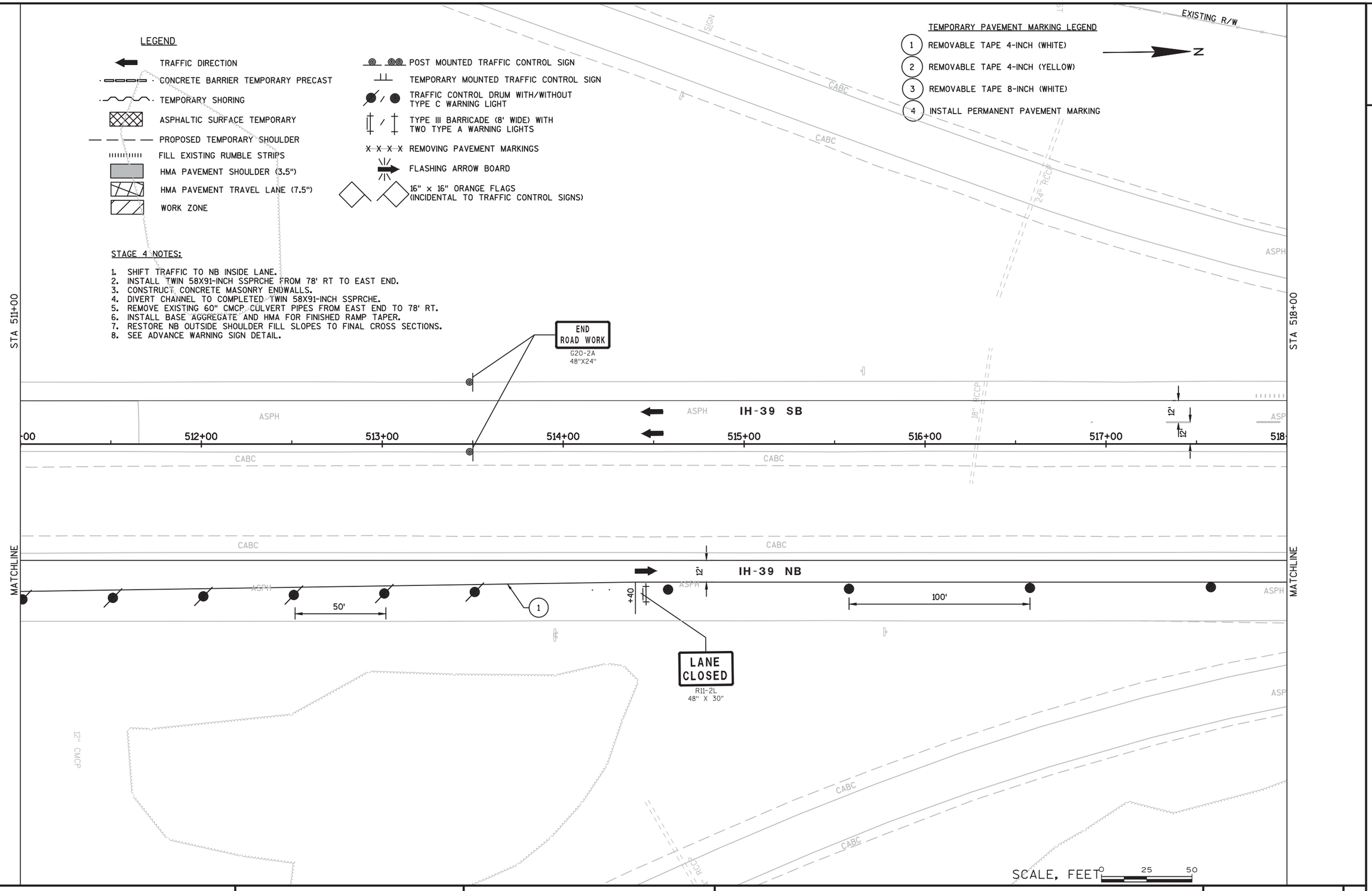
- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING

STAGE 4 NOTES:

1. SHIFT TRAFFIC TO NB INSIDE LANE.
2. INSTALL TWIN 58X91-INCH SSPRCHE FROM 78' RT TO EAST END.
3. CONSTRUCT CONCRETE MASONRY ENDWALLS.
4. DIVERT CHANNEL TO COMPLETED TWIN 58X91-INCH SSPRCHE.
5. REMOVE EXISTING 60" CMCP CULVERT PIPES FROM EAST END TO 78' RT.
6. INSTALL BASE AGGREGATE AND HMA FOR FINISHED RAMP TAPER.
7. RESTORE NB OUTSIDE SHOULDER FILL SLOPES TO FINAL CROSS SECTIONS.
8. SEE ADVANCE WARNING SIGN DETAIL.



PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 4	SHEET 68	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026004_S4.DWG PLOT DATE : 1/27/2016 11:10 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

STAGE 4 NOTES:

1. SHIFT TRAFFIC TO NB INSIDE LANE.
2. INSTALL TWIN 58X91-INCH SSPRCHE FROM 78' RT TO EAST END.
3. CONSTRUCT CONCRETE MASONRY ENDWALLS.
4. DIVERT CHANNEL TO COMPLETED TWIN 58X91-INCH SSPRCHE.
5. REMOVE EXISTING 60" CMCP CULVERT PIPES FROM EAST END TO 78' RT.
6. INSTALL BASE AGGREGATE AND HMA FOR FINISHED RAMP TAPER.
7. RESTORE NB OUTSIDE SHOULDER FILL SLOPES TO FINAL CROSS SECTIONS.
8. SEE ADVANCE WARNING SIGN DETAIL.

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N

END ROAD WORK
G20-2A
48"X24"

500'

CABC

SIGN

EXIT
E5-1
72"X60"

SOUTH BRANCH TENMILE CREEK

SLOPE INTERCEPT

EXISTING 60" RCCP TO REMAIN

50'

STA 518+00

STA 525+00

519+00 520+00 521+00 522+00 523+00 524+00

ASPH IH-39 SB

12'

IH 39 SB R/L

4

SLOPE INTERCEPT

W05-52R
18"X54"

+67
73.1' RT

1 2

50'

MATCHLINE

IH-39 NB

3

100'

25'

+05

SEE SDD CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" FOR BARRIER END TREATMENT (TYP)

R1-2
48"X42"

WETLAND BOUNDARY

REMOVE EXISTING 60" CMCP

REMOVE FENCE

72.3' RT
+18

+40

+10

ROAD WORK AHEAD
W20-1-A

W03-2

500'

500'

EXISTING R/W

SLOPE INTERCEPT

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 4	SHEET 69	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026004_S4.DWG PLOT DATE : 1/27/2016 11:11 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING

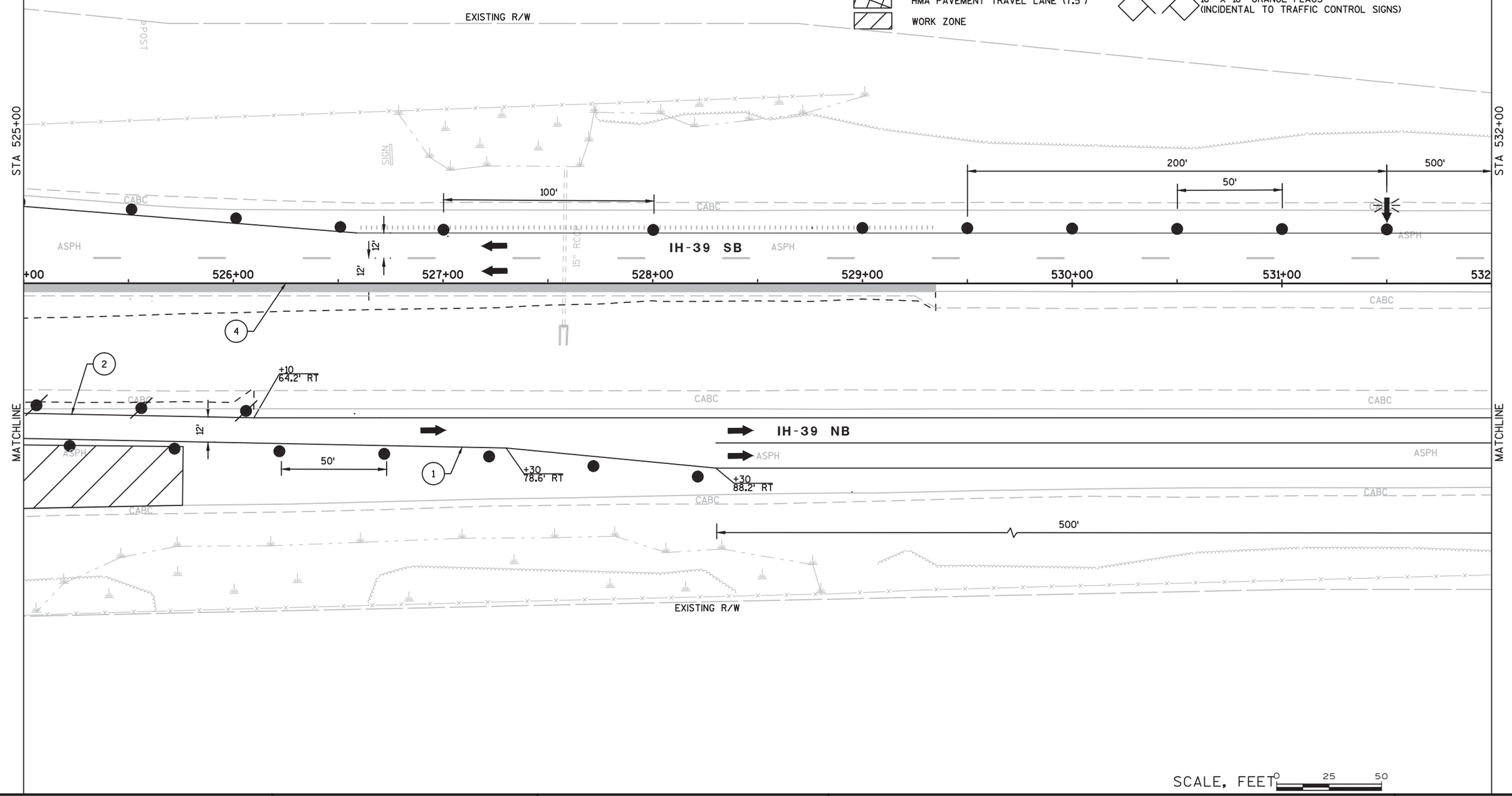
STAGE 4 NOTES:

1. SHIFT TRAFFIC TO NB INSIDE LANE.
2. INSTALL TWIN 58X91-INCH SSPRCHE FROM 78' RT TO EAST END.
3. CONSTRUCT CONCRETE MASONRY ENDWALLS.
4. DIVERT CHANNEL TO COMPLETED TWIN 58X91-INCH SSPRCHE.
5. REMOVE EXISTING 60" CMCP CULVERT PIPES FROM EAST END TO 78' RT.
6. INSTALL BASE AGGREGATE AND HMA FOR FINISHED RAMP TAPER.
7. RESTORE NB OUTSIDE SHOULDER FILL SLOPES TO FINAL CROSS SECTIONS.
8. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N



SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 4	SHEET 70	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026004_S4.DWG PLOT DATE : 1/27/2016 11:11 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING

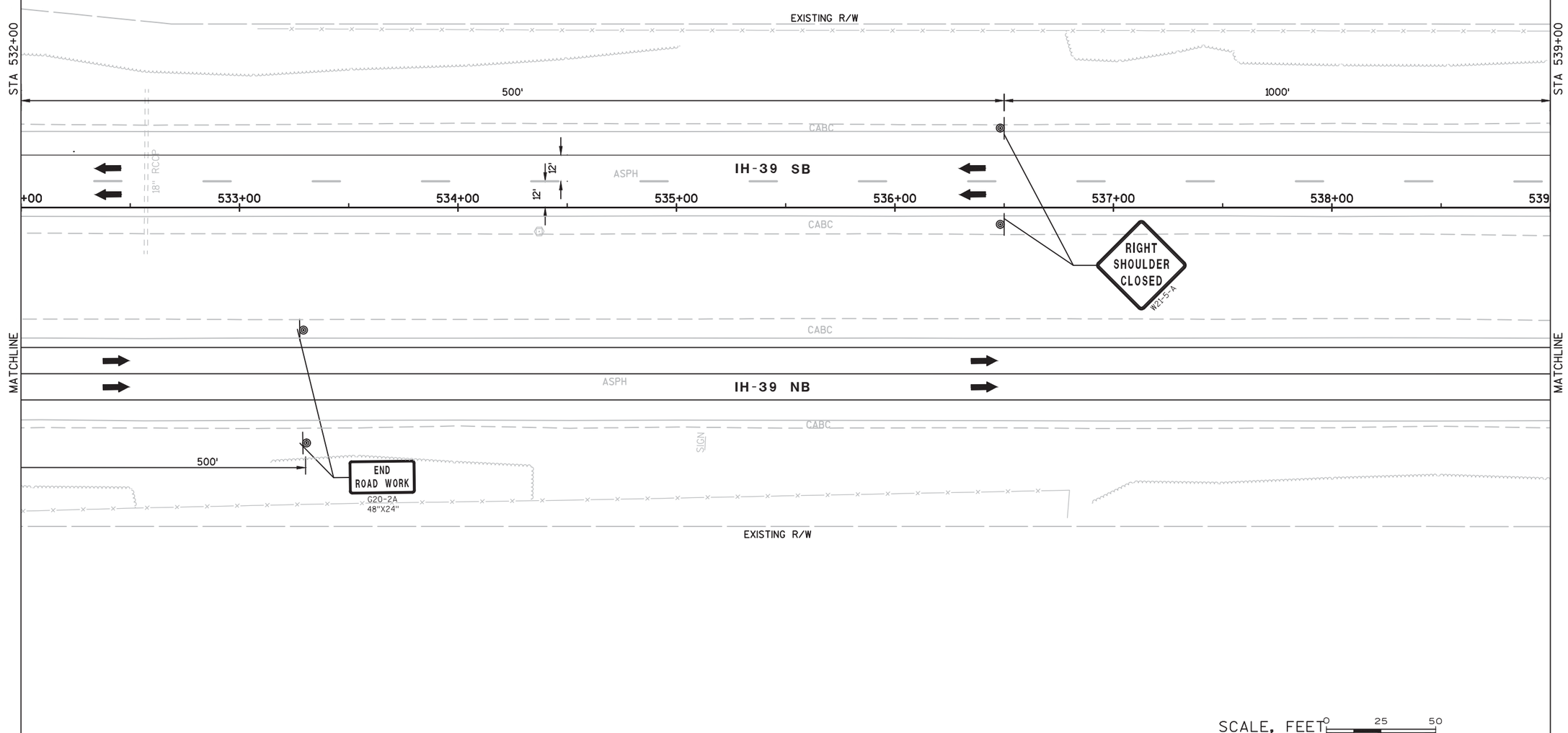
STAGE 4 NOTES:

1. SHIFT TRAFFIC TO NB INSIDE LANE.
2. INSTALL TWIN 58X91-INCH SSPRCHE FROM 78' RT TO EAST END.
3. CONSTRUCT CONCRETE MASONRY ENDWALLS.
4. DIVERT CHANNEL TO COMPLETED TWIN 58X91-INCH SSPRCHE.
5. REMOVE EXISTING 60" CMCP CULVERT PIPES FROM EAST END TO 78' RT.
6. INSTALL BASE AGGREGATE AND HMA FOR FINISHED RAMP TAPER.
7. RESTORE NB OUTSIDE SHOULDER FILL SLOPES TO FINAL CROSS SECTIONS.
8. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N



SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 4	SHEET 71	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026004_S4.DWG PLOT DATE : 1/27/2016 11:11 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

2

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING

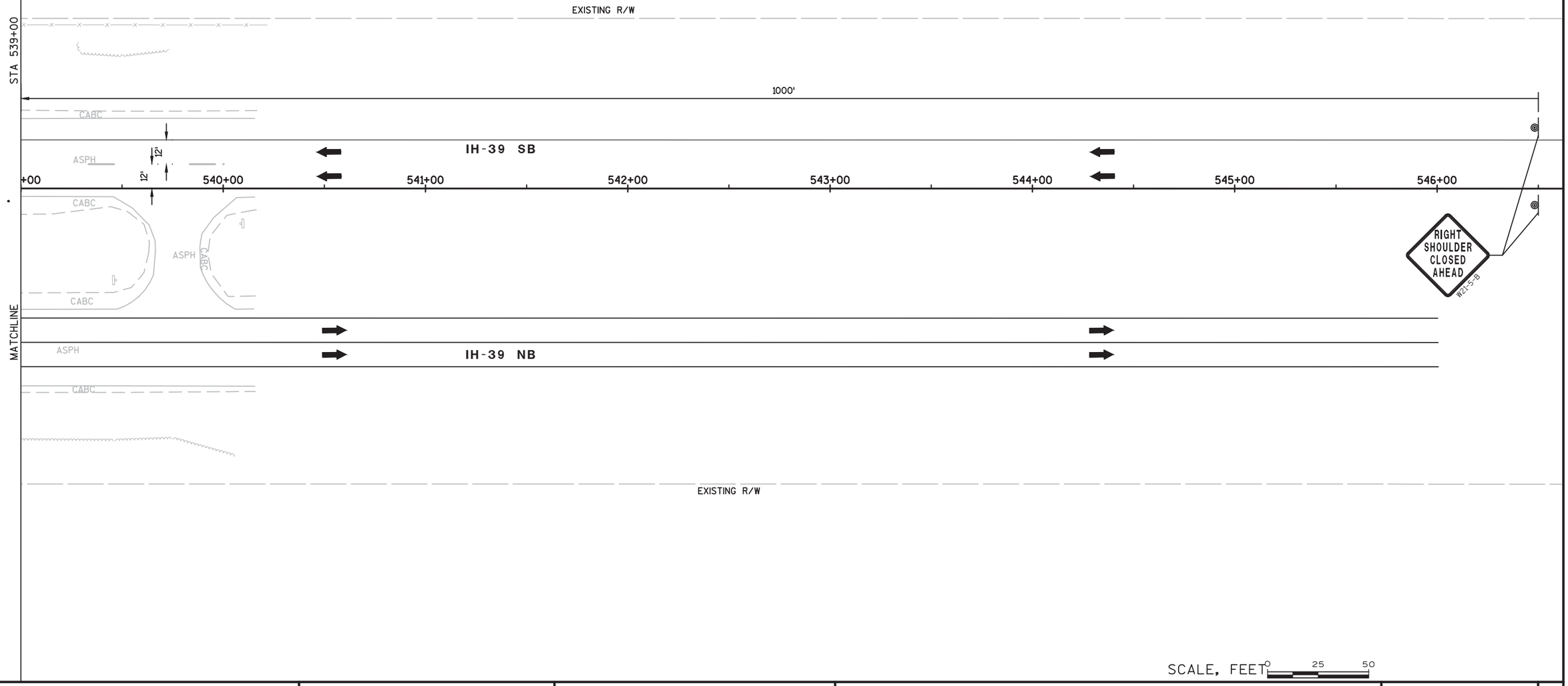
STAGE 4 NOTES:

1. SHIFT TRAFFIC TO NB INSIDE LANE.
2. INSTALL TWIN 58X91-INCH SSPRCHE FROM 78' RT TO EAST END.
3. CONSTRUCT CONCRETE MASONRY ENDWALLS.
4. DIVERT CHANNEL TO COMPLETED TWIN 58X91-INCH SSPRCHE.
5. REMOVE EXISTING 60" CMCP CULVERT PIPES FROM EAST END TO 78' RT.
6. INSTALL BASE AGGREGATE AND HMA FOR FINISHED RAMP TAPER.
7. RESTORE NB OUTSIDE SHOULDER FILL SLOPES TO FINAL CROSS SECTIONS.
8. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N



SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 4	SHEET 72	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026004_S4.DWG PLOT DATE : 1/27/2016 11:11 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

2

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)

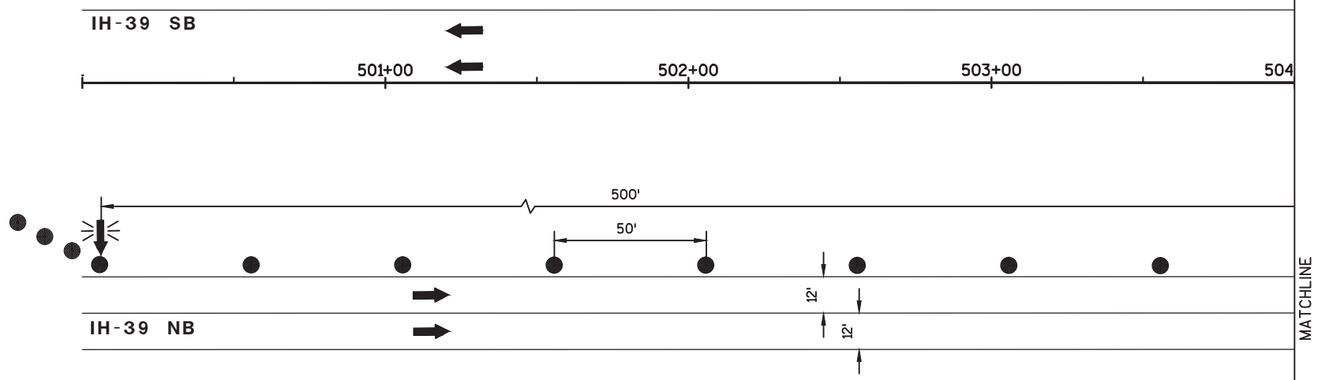
STAGE 5A NOTES:

1. SHIFT TRAFFIC TO NB OUTSIDE LANE.
2. REMOVE EXISTING 60" CMCP CULVERT PIPES FROM 78' RT TO BEND.
3. REMOVE EXISTING 60" RCCP CULVERT PIPE ENDS AND ENDWALL TO 66' LT AND 29' RT.
4. FILL EXISTING 60" RCCP CULVERT PIPES UNDER SB LANES WITH CONCRETE SLURRY AND ABANDON PIPE.
5. INSTALL BASE AGGREGATE AND HMA FOR FINISHED NB TRAVEL LANES.
6. RESTORE NB INSIDE SHOULDER FILL SLOPES TO FINAL CROSS SECTIONS.
7. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N



SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 5A	SHEET 73	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026005_S5A.DWG PLOT DATE : 1/27/2016 11:13 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

STAGE 5A NOTES:

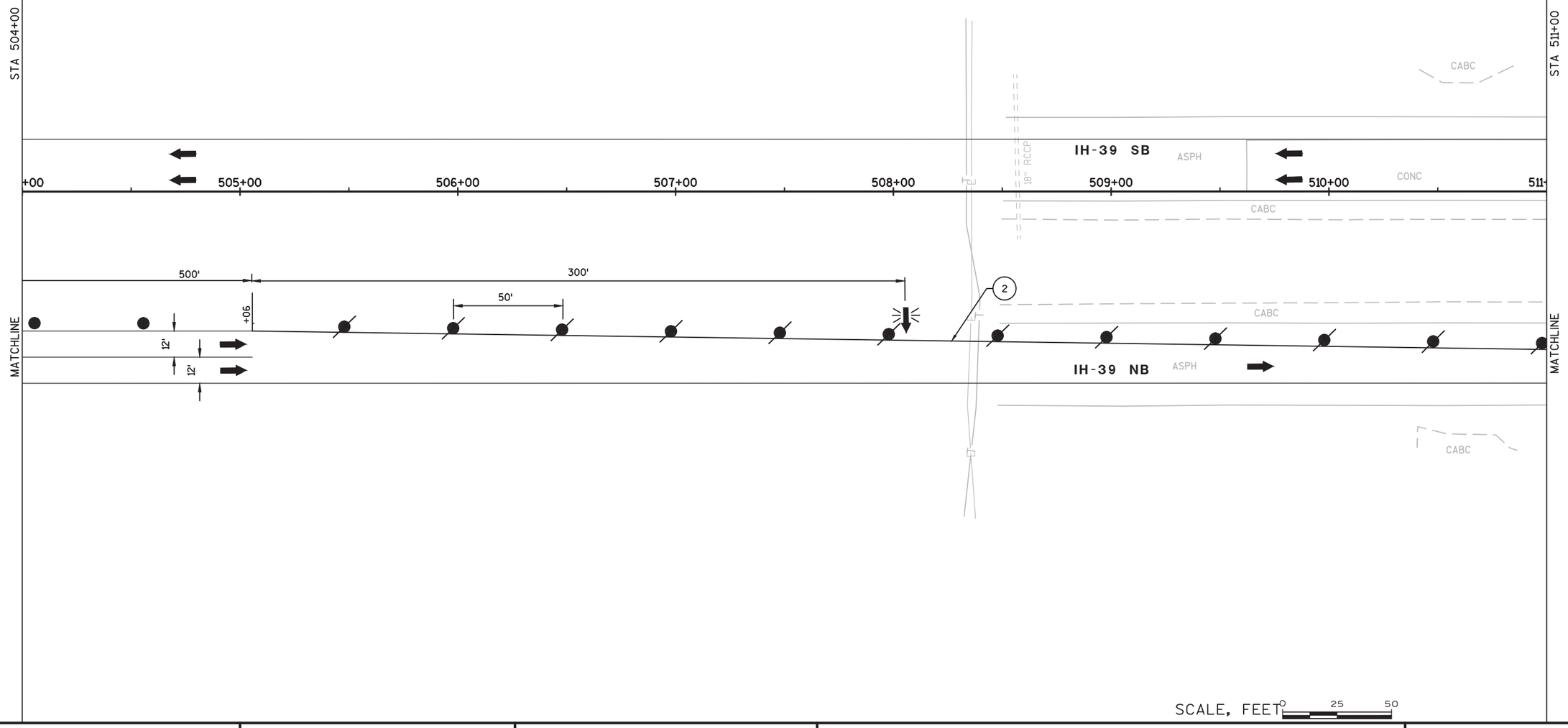
1. SHIFT TRAFFIC TO NB OUTSIDE LANE.
2. REMOVE EXISTING 60" CMCP CULVERT PIPES FROM 78' RT TO BEND.
3. REMOVE EXISTING 60" RCCP CULVERT PIPE ENDS AND ENDWALL TO 66' LT AND 29' RT.
4. FILL EXISTING 60" RCCP CULVERT PIPES UNDER SB LANES WITH CONCRETE SLURRY AND ABANDON PIPE.
5. INSTALL BASE AGGREGATE AND HMA FOR FINISHED NB TRAVEL LANES.
6. RESTORE NB INSIDE SHOULDER FILL SLOPES TO FINAL CROSS SECTIONS.
7. SEE ADVANCE WARNING SIGN DETAIL.

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)



PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 5A	SHEET 74	E

LEGEND

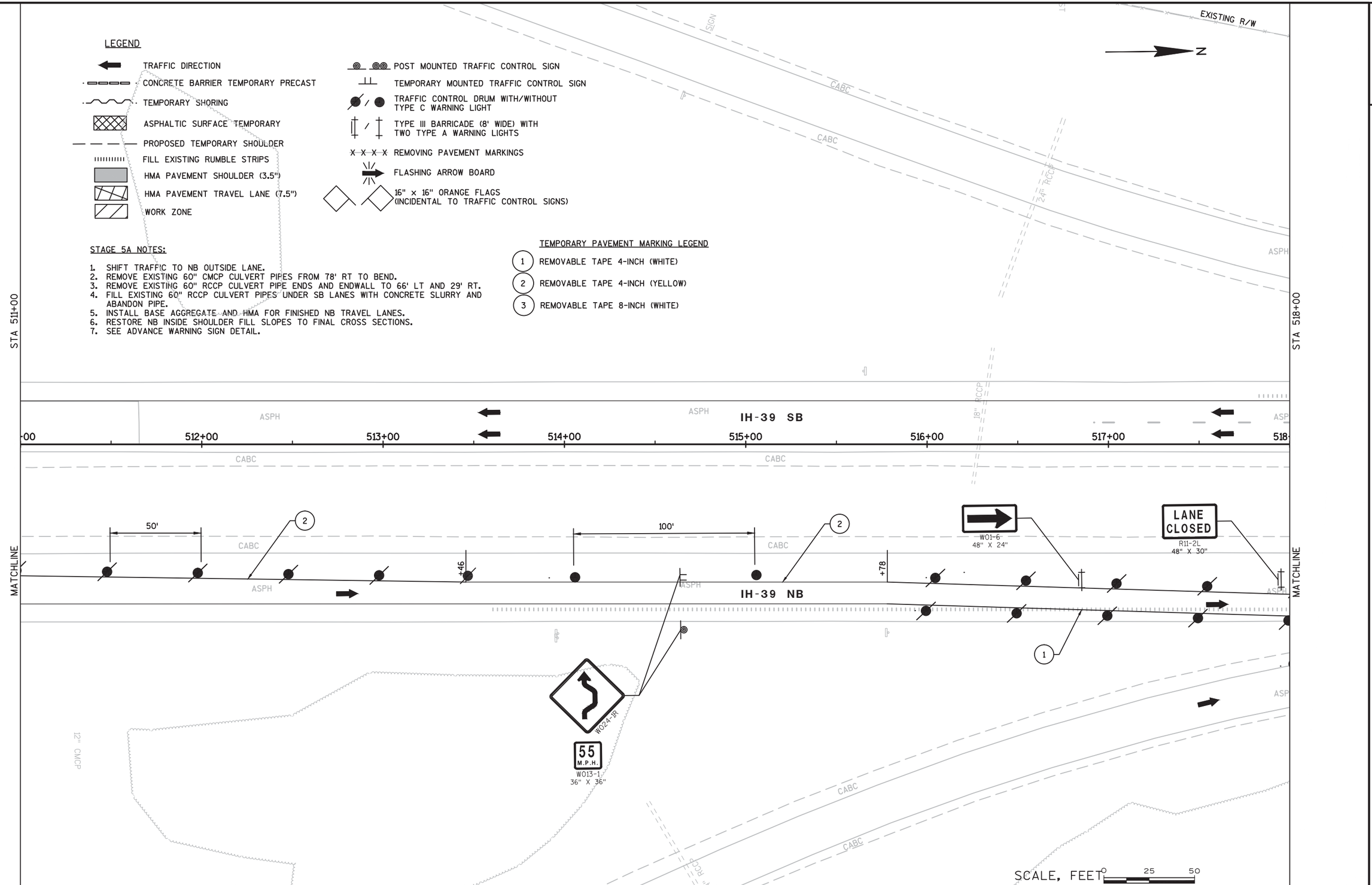
- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

STAGE 5A NOTES:

1. SHIFT TRAFFIC TO NB OUTSIDE LANE.
2. REMOVE EXISTING 60" CMCP CULVERT PIPES FROM 78' RT TO BEND.
3. REMOVE EXISTING 60" RCCP CULVERT PIPE ENDS AND ENDWALL TO 66' LT AND 29' RT.
4. FILL EXISTING 60" RCCP CULVERT PIPES UNDER SB LANES WITH CONCRETE SLURRY AND ABANDON PIPE.
5. INSTALL BASE AGGREGATE AND HMA FOR FINISHED NB TRAVEL LANES.
6. RESTORE NB INSIDE SHOULDER FILL SLOPES TO FINAL CROSS SECTIONS.
7. SEE ADVANCE WARNING SIGN DETAIL.

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)



PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 5A	SHEET 75	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026005_S5A.DWG PLOT DATE : 1/27/2016 11:13 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

STAGE 5A NOTES:

1. SHIFT TRAFFIC TO NB OUTSIDE LANE.
2. REMOVE EXISTING 60" CMCP CULVERT PIPES FROM 78' RT TO BEND.
3. REMOVE EXISTING 60" RCCP CULVERT PIPE ENDS AND ENDWALL TO 66' LT AND 29' RT.
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5. INSTALL BASE AGGREGATE AND HMA FOR FINISHED NB TRAVEL LANES.
6. RESTORE NB INSIDE SHOULDER FILL SLOPES TO FINAL CROSS SECTIONS.
7. SEE ADVANCE WARNING SIGN DETAIL.

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N

END ROAD WORK
G20-2A
48"X24"

EXIT
E5-1
60"X48"

ROAD WORK AHEAD
W20-1A

W03-2

YIELD
R1-2
48"X42"

W05-52L
18"X54"

STA 518+00

STA 525+00

519+00 520+00 521+00 522+00 523+00 524+00

500'

100'

50'

15'

12'

CABC

SIGN

15" RCCP

60" RCCP

IH-39 SB

IH-39 NB

REMOVE EXISTING 60" CMCP TO 66' LT

REMOVE EXISTING 60" CMCP TO 29' RT

ABANDON AND FILL CULVERT PIPES 2-60" X 105' CPRC

SOUTH BRANCH TENMILE CREEK

SLOPE INTERCEPT

TEMPORARY SHORING

SEE SDD CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" FOR BARRIER END TREATMENT (TYP)

EXISTING R/W

WETLAND BOUNDARY

TLE

MATCHLINE

+82

100.2' RT +76

92.3' RT +08

92.3' RT +41

+40

+86

24'

ASPH

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 5A	SHEET 76	E

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)

STAGE 5A NOTES:

1. SHIFT TRAFFIC TO NB OUTSIDE LANE.
2. REMOVE EXISTING 60" CMCP CULVERT PIPES FROM 78' RT TO BEND.
3. REMOVE EXISTING 60" RCCP CULVERT PIPE ENDS AND ENDWALL TO 66' LT AND 29' RT..
4. FILL EXISTING 60" RCCP CULVERT PIPES UNDER SB LANES WITH CONCRETE SLURRY AND ABANDON PIPE.
5. INSTALL BASE AGGREGATE AND HMA FOR FINISHED NB TRAVEL LANES.
6. RESTORE NB INSIDE SHOULDER FILL SLOPES TO FINAL CROSS SECTIONS.
7. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N

EXISTING R/W

STA 525+00

STA 532+00

POST

SIGN

+62

CABC

ASPH

15" RCCP

IH-39 SB

200'

500'

12'

12'

525+00

526+00

527+00

528+00

529+00

530+00

531+00

532+00

100'

50'

FLASHING CAUTION MODE

+10

+34
84.9' RT

+49

2

MATCHLINE

IH-39 NB

EXISTING R/W

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 5A	SHEET 77	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026005_S5A.DWG PLOT DATE : 1/27/2016 11:14 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)

STAGE 5A NOTES:

1. SHIFT TRAFFIC TO NB OUTSIDE LANE.
2. REMOVE EXISTING 60" CMCP CULVERT PIPES FROM 78' RT TO BEND.
3. REMOVE EXISTING 60" RCCP CULVERT PIPE ENDS AND ENDWALL TO 66' LT AND 29' RT.
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5. INSTALL BASE AGGREGATE AND HMA FOR FINISHED NB TRAVEL LANES.
6. RESTORE NB INSIDE SHOULDER FILL SLOPES TO FINAL CROSS SECTIONS.
7. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
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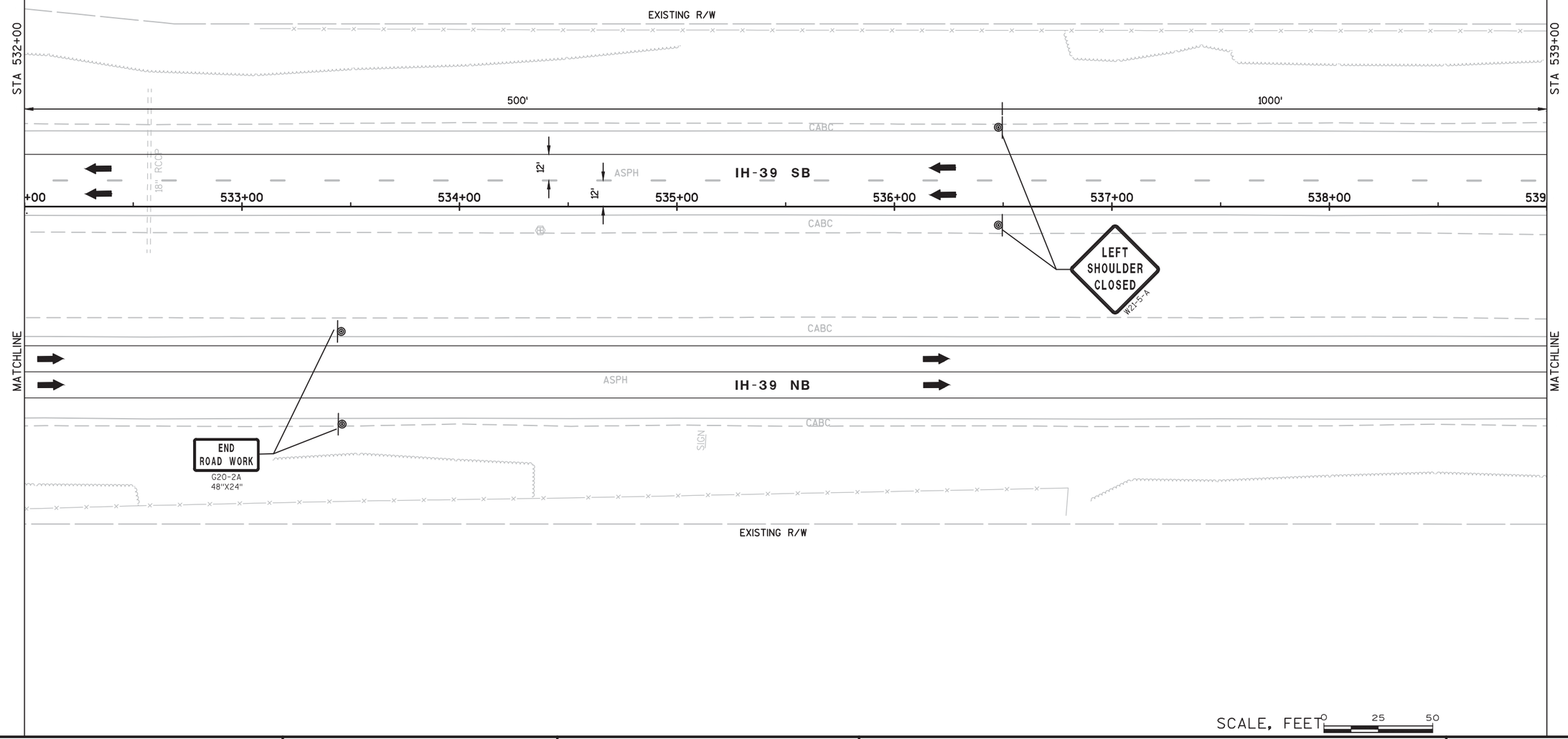
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N



SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 5A	SHEET 78	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026005_S5A.DWG PLOT DATE : 1/27/2016 11:14 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

STAGE 5A NOTES:

1. SHIFT TRAFFIC TO NB OUTSIDE LANE.
2. REMOVE EXISTING 60" CMCP CULVERT PIPES FROM 78' RT TO BEND.
3. REMOVE EXISTING 60" RCCP CULVERT PIPE ENDS AND ENDWALL TO 66' LT AND 29' RT.
4. FILL EXISTING 60" RCCP CULVERT PIPES UNDER SB LANES WITH CONCRETE SLURRY AND ABANDON PIPE.
5. INSTALL BASE AGGREGATE AND HMA FOR FINISHED NB TRAVEL LANES.
6. RESTORE NB INSIDE SHOULDER FILL SLOPES TO FINAL CROSS SECTIONS.
7. SEE ADVANCE WARNING SIGN DETAIL.

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
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- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N

EXISTING R/W

STA 539+00

1000'

CABC

ASPH

12"

12"

IH-39 SB

+00 540+00 541+00 542+00 543+00 544+00 545+00 546+00

CABC

ASPH

CABC

CABC

LEFT SHOULDER CLOSED AHEAD W21-5-BL

MATCHLINE

ASPH

IH-39 NB

CABC

EXISTING R/W

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 5A	SHEET 79	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026005_S5A.DWG PLOT DATE : 1/27/2016 11:14 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

STAGE 5B NOTES:

1. SHIFT TRAFFIC TO NB AND SB INSIDE LANE.
2. RESTORE NB AND SB OUTSIDE SHOULDER.
3. SEE ADVANCE WARNING SIGN DETAIL.

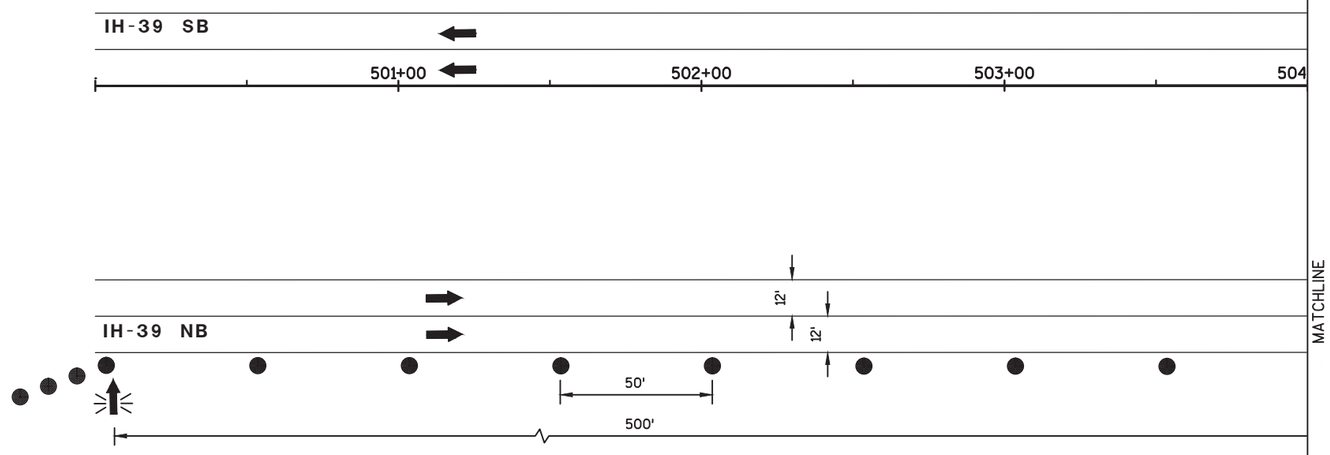
TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N



SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 5B	SHEET 80	E

STAGE 5B NOTES:

1. SHIFT TRAFFIC TO NB AND SB INSIDE LANE.
2. RESTORE NB AND SB OUTSIDE SHOULDER.
3. SEE ADVANCE WARNING SIGN DETAIL.

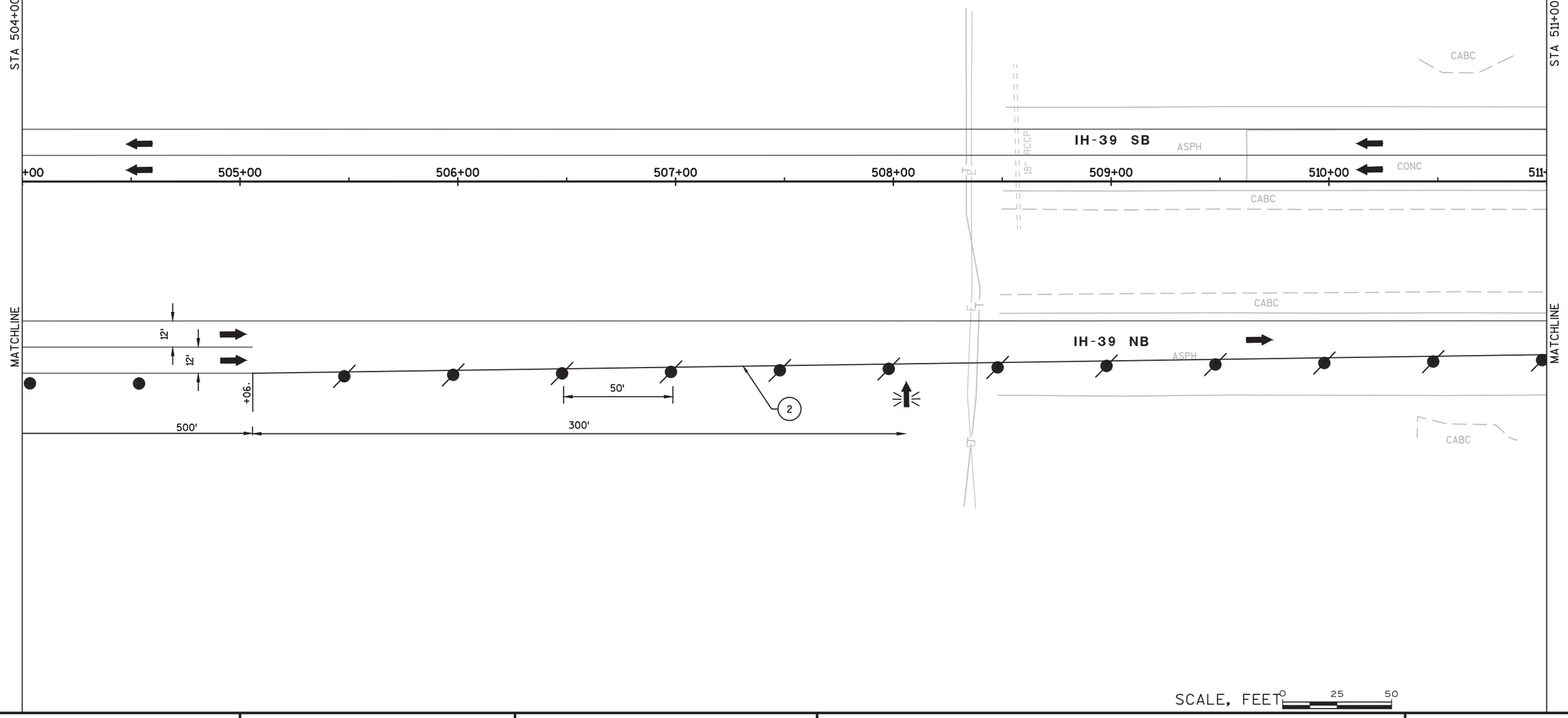
TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N



SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 5B	SHEET 81	E

LEGEND

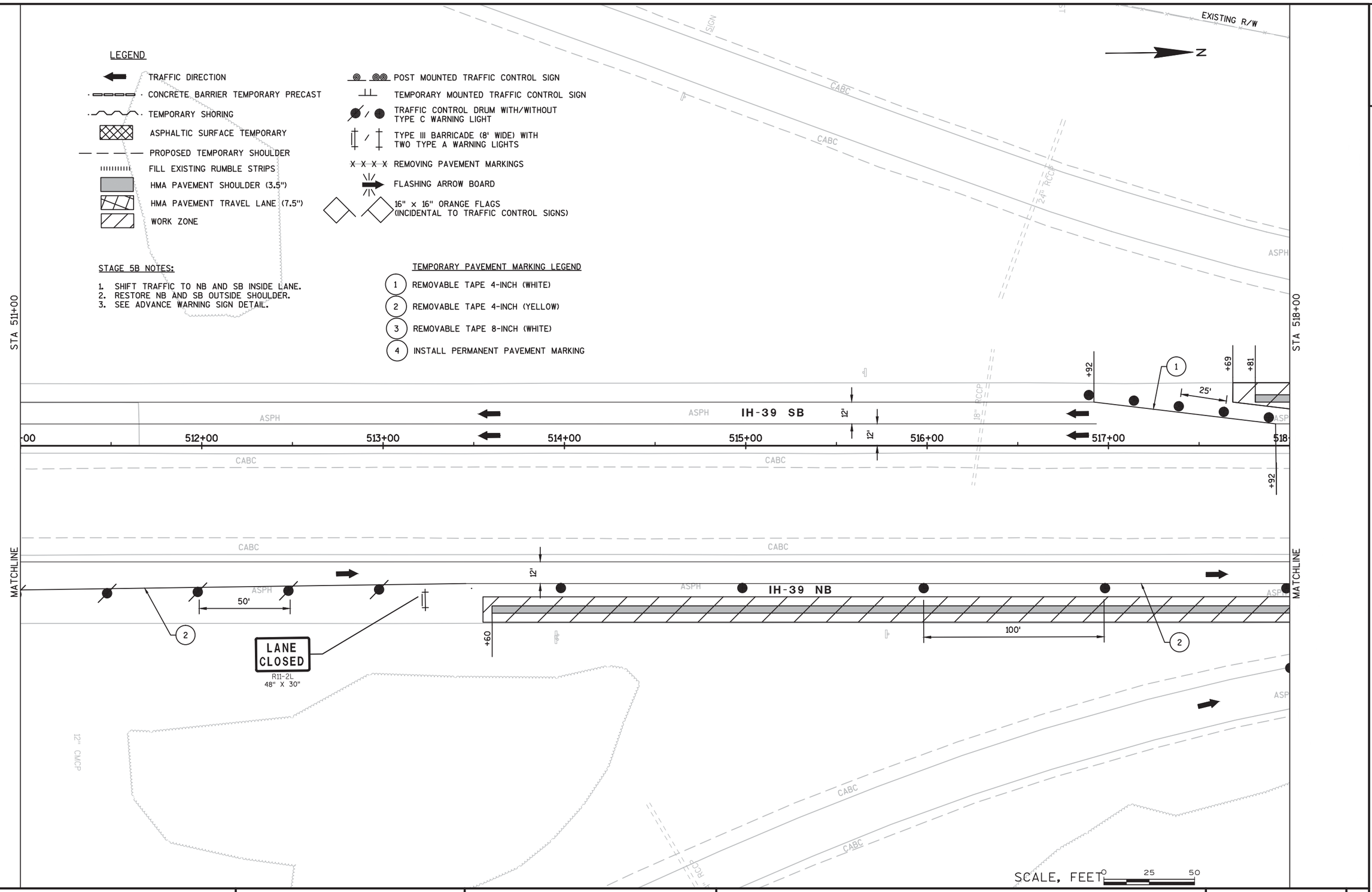
- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

STAGE 5B NOTES:

1. SHIFT TRAFFIC TO NB AND SB INSIDE LANE.
2. RESTORE NB AND SB OUTSIDE SHOULDER.
3. SEE ADVANCE WARNING SIGN DETAIL.

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING



PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 5B	SHEET 82	E

STAGE 5B NOTES:

1. SHIFT TRAFFIC TO NB AND SB INSIDE LANE.
2. RESTORE NB AND SB OUTSIDE SHOULDER.
3. SEE ADVANCE WARNING SIGN DETAIL.

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N

END ROAD WORK
G20-2A
48"X24"

500'

EXIT 139
E5-1A
90"X60"

LANE CLOSED
R11-2L
48" X 30"

EXIT
E5-1
60"X48"

SOUTH BRANCH TENMILE CREEK

EXISTING R/W

STA 518+00

STA 525+00

519+00 520+00 521+00 522+00 523+00 524+00

IH-39 SB

IH-39 NB

+09

+57

50'

+64
37.0' LT

100'

ASPH

12'

+32
88.3' RT

+34

MATCHLINE

TLE

ROAD WORK AHEAD
W20-1-A

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 5B	SHEET 83	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026005_S5B.DWG PLOT DATE : 1/27/2016 11:16 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING

STAGE 5B NOTES:

1. SHIFT TRAFFIC TO NB AND SB INSIDE LANE.
2. RESTORE NB AND SB OUTSIDE SHOULDER.
3. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N

EXISTING R/W

STA 525+00

STA 532+00

+59 28.8' LT

+97 12.0' LT

+35 28.8' LT

+51 12.0' LT

CABC

ASPH

IH-39 SB

+21

12'

15' RC

+00

526+00

527+00

528+00

529+00

530+00

531+00

532

MATCHLINE

IH-39 NB

+64 76.0' RT

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 5B	SHEET 84	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026005_S5B.DWG PLOT DATE : 1/27/2016 11:16 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

TEMPORARY PAVEMENT MARKING LEGEND

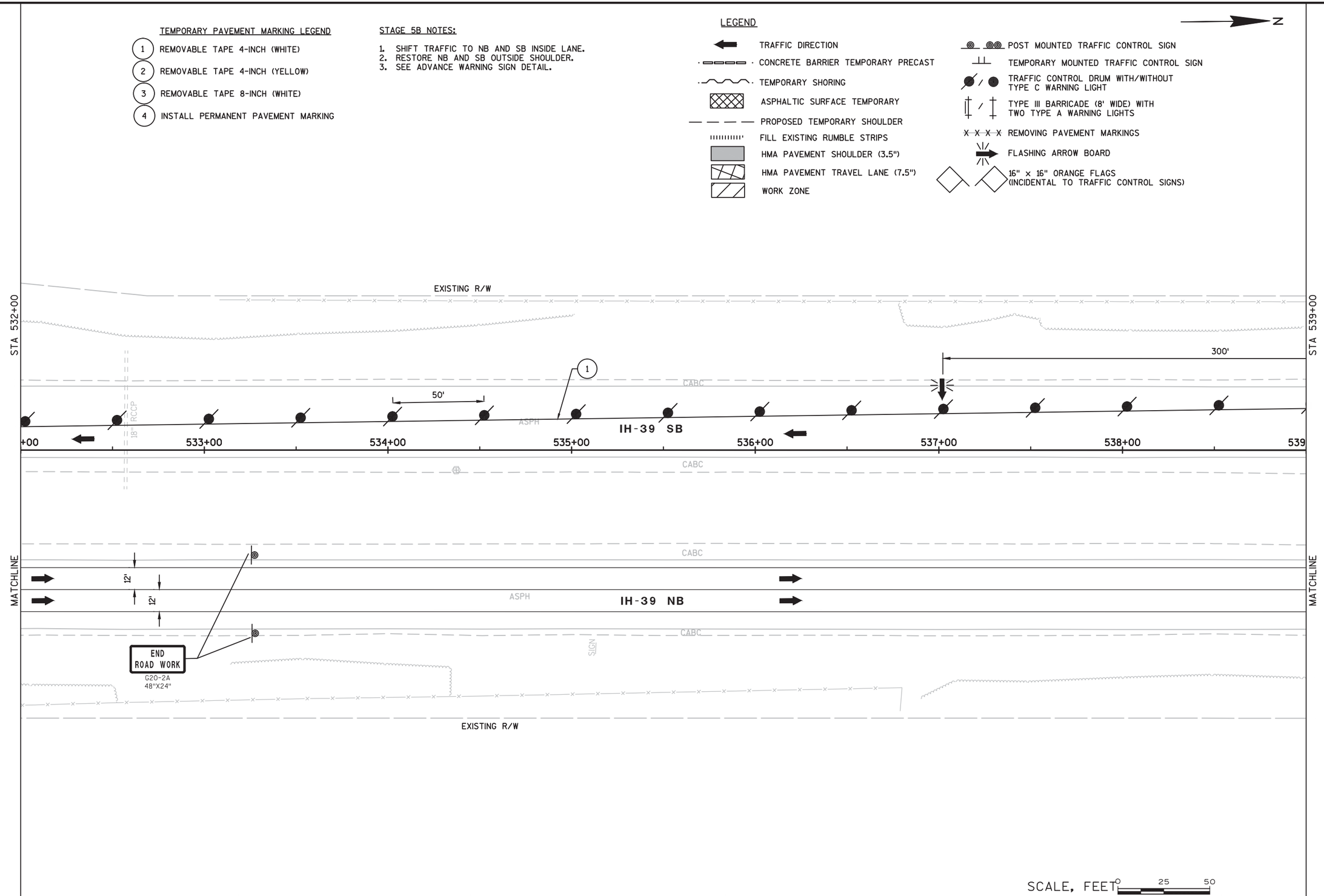
1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING

STAGE 5B NOTES:

1. SHIFT TRAFFIC TO NB AND SB INSIDE LANE.
2. RESTORE NB AND SB OUTSIDE SHOULDER.
3. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)



PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 5B	SHEET 85	E

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
3. REMOVABLE TAPE 8-INCH (WHITE)
4. INSTALL PERMANENT PAVEMENT MARKING

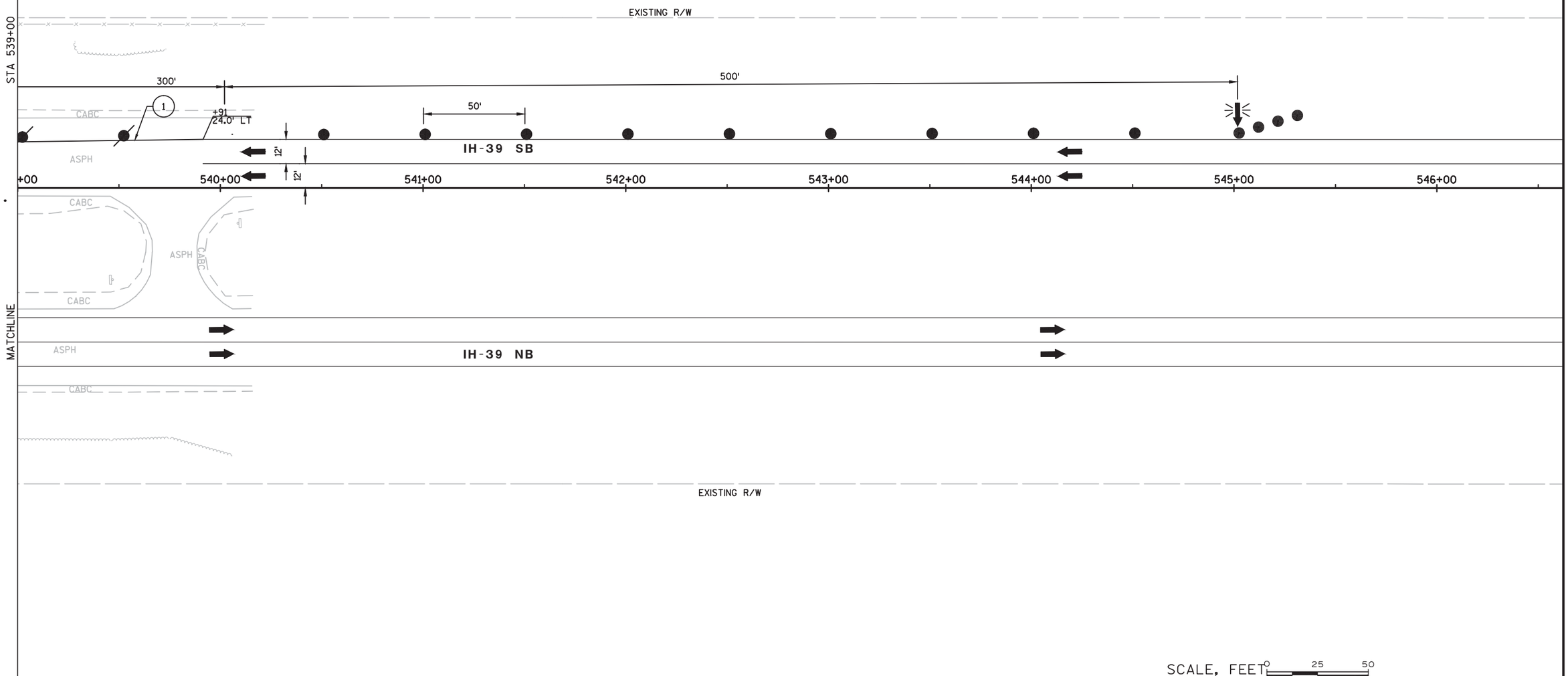
STAGE 5B NOTES:

1. SHIFT TRAFFIC TO NB AND SB INSIDE LANE.
2. RESTORE NB AND SB OUTSIDE SHOULDER.
3. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- WORK ZONE
- POST MOUNTED TRAFFIC CONTROL SIGN
- TEMPORARY MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- 16" x 16" ORANGE FLAGS (INCIDENTAL TO TRAFFIC CONTROL SIGNS)

N



SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	STAGING PLAN - SOUTH BRANCH TENMILE CREEK STAGE 5B	SHEET 86	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026005_S5B.DWG PLOT DATE : 1/27/2016 11:17 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)

STAGE 1 NOTES:

1. SHIFT TRAFFIC TO EXISTING OUTSIDE SB LANE.
2. REMOVE EAST HALF OF EXISTING 42" AND 72" CULVERT PIPE TO 15' LT.
3. INSTALL MEDIAN INLET.
4. INSTALL EAST HALF OF 42-INCH SSPRC.
5. INSTALL BASE AGGREGATE AND HMA FOR FINISHED INSIDE TRAVEL LANE.
6. FILL THE EXISTING RUMBLE STRIPS IN THE SB INSIDE SHOULDER.
7. CONSTRUCT TEMPORARY WIDENING IN THE SB INSIDE LANE.
8. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- EXISTING R/W
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD

N

500'

12'

12'

12.0' LT

IH-39 SB

1324+00

1325+00

1326+00

1327+00

1328+00

1329+00

1330+00

1331

25'

100'

+00

+55

+58

STA 1331+00

END ROAD WORK
G20-2A
48"X24"

IH-39 NB

MATCHLINE

SIGN

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	STAGING PLAN - MARATHON COUNTY STAGE 1	SHEET 87	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026101_S1.DWG PLOT DATE : 1/27/2016 11:20 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)

STAGE 1 NOTES:

1. SHIFT TRAFFIC TO EXISTING OUTSIDE SB LANE.
2. REMOVE EAST HALF OF EXISTING 42" AND 72" CULVERT PIPE TO 15' LT.
3. INSTALL MEDIAN INLET.
4. INSTALL EAST HALF OF 42-INCH SSPRC.
5. INSTALL BASE AGGREGATE AND HMA FOR FINISHED INSIDE TRAVEL LANE.
6. FILL THE EXISTING RUMBLE STRIPS IN THE SB INSIDE SHOULDER.
7. CONSTRUCT TEMPORARY WIDENING IN THE SB INSIDE LANE.
8. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD

N

BIRD LANE

SIGN

EXISTING R/W

STA 1331+00

STA 1338+00

WETLAND BOUNDARY

REMOVE EXISTING 72" CMCP TO 15' LT

W05-52L 18"X54"

+00 33.0' LT

100'

+82 19.0' LT

+94 12.0' LT

+60 19.0' LT

+64 12.0' LT

12'

CABC

ASPH

IH-39 SB

+00 1332+00 1333+00 1334+00 1335+00 1336+00 1337+00 1338

+80 8.3' RT

REMOVE EXISTING 42" RCCP TO 8' LT

REPLACE EXISTING INLET WITH INLET MEDIAN 2 GRATE

TEMPORARY SHORING

EXISTING 42" RCCP TO REMAIN

SEE SDD "CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" FOR BARRIER END TREATMENT

SLOPE INTERCEPT

LANE CLOSED

R11-2L 48" X 30"

MATCHLINE

MATCHLINE

IH-39 NB

SIGN

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	STAGING PLAN - MARATHON COUNTY STAGE 1	SHEET 88	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026101_S1.DWG PLOT DATE : 1/27/2016 11:20 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)

STAGE 1 NOTES:

1. SHIFT TRAFFIC TO EXISTING OUTSIDE SB LANE.
2. REMOVE EAST HALF OF EXISTING 42" AND 72" CULVERT PIPE TO 15' LT.
3. INSTALL MEDIAN INLET.
4. INSTALL EAST HALF OF 42-INCH SSPRC.
5. INSTALL BASE AGGREGATE AND HMA FOR FINISHED INSIDE TRAVEL LANE.
6. FILL THE EXISTING RUMBLE STRIPS IN THE SB INSIDE SHOULDER.
7. CONSTRUCT TEMPORARY WIDENING IN THE SB INSIDE LANE.
8. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD

N

SIGN

SIGN

EXISTING R/W

STA 1338+00

STA 1345+00

100'

+83
21.0' LT

12'

IH-39 SB

+00 1339+00 1340+00 1341+00 1342+00 1343+00 1344+00 1345

SLOPE INTERCEPT

+64
8.3' RT

+28

MATCHLINE

MATCHLINE

IH-39 NB

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	STAGING PLAN - MARATHON COUNTY STAGE 1	SHEET 89	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026101_S1.DWG PLOT DATE : 1/27/2016 11:20 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)

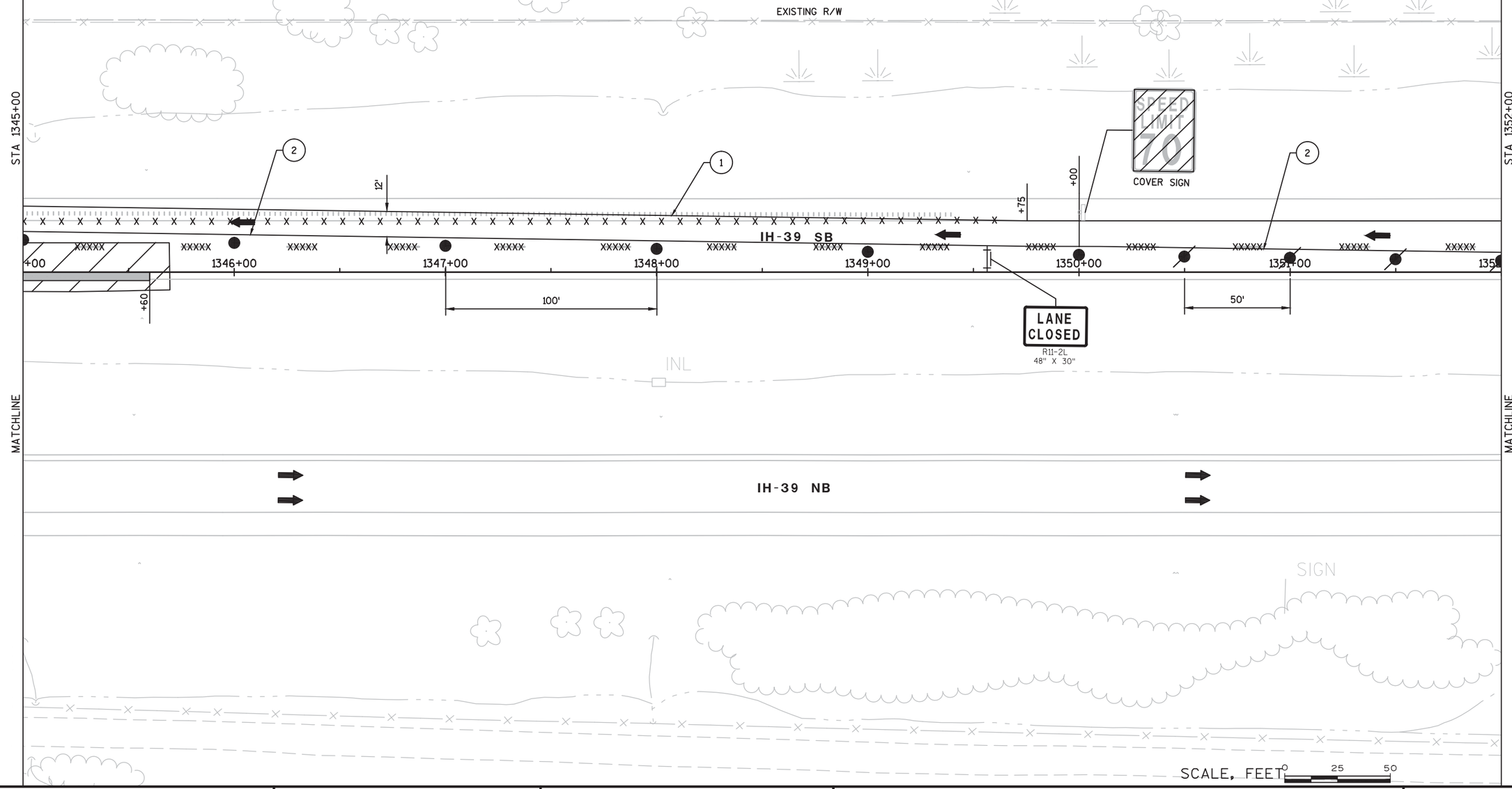
STAGE 1 NOTES:

1. SHIFT TRAFFIC TO EXISTING OUTSIDE SB LANE.
2. REMOVE EAST HALF OF EXISTING 42" AND 72" CULVERT PIPE TO 15' LT.
3. INSTALL MEDIAN INLET.
4. INSTALL EAST HALF OF 42-INCH SSPRC.
5. INSTALL BASE AGGREGATE AND HMA FOR FINISHED INSIDE TRAVEL LANE.
6. FILL THE EXISTING RUMBLE STRIPS IN THE SB INSIDE SHOULDER.
7. CONSTRUCT TEMPORARY WIDENING IN THE SB INSIDE LANE.
8. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD

N



PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	STAGING PLAN - MARATHON COUNTY STAGE 1	SHEET 90	E

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)

STAGE 1 NOTES:

1. SHIFT TRAFFIC TO EXISTING OUTSIDE SB LANE.
2. REMOVE EAST HALF OF EXISTING 42" AND 72" CULVERT PIPE TO 15' LT.
3. INSTALL MEDIAN INLET.
4. INSTALL EAST HALF OF 42-INCH SSPRC.
5. INSTALL BASE AGGREGATE AND HMA FOR FINISHED INSIDE TRAVEL LANE.
6. FILL THE EXISTING RUMBLE STRIPS IN THE SB INSIDE SHOULDER.
7. CONSTRUCT TEMPORARY WIDENING IN THE SB INSIDE LANE.
8. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD

N

EXISTING R/W

STA 1352+00

STA 1359+00

2

XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX

1354+00 1355+00 1356+00 1357+00 1358+00

50'

IH-39 SB

12'

12'

300'

500'

+50

MATCHLINE

SLAB

IH-39 NB

SIGN

MATCHLINE

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	STAGING PLAN - MARATHON COUNTY STAGE 1	SHEET 91	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026101_S1.DWG PLOT DATE : 1/27/2016 11:21 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

2

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)

STAGE 1 NOTES:

1. SHIFT TRAFFIC TO EXISTING OUTSIDE SB LANE.
2. REMOVE EAST HALF OF EXISTING 42" AND 72" CULVERT PIPE TO 15' LT.
3. INSTALL MEDIAN INLET.
4. INSTALL EAST HALF OF 42-INCH SSPRC.
5. INSTALL BASE AGGREGATE AND HMA FOR FINISHED INSIDE TRAVEL LANE.
6. FILL THE EXISTING RUMBLE STRIPS IN THE SB INSIDE SHOULDER.
7. CONSTRUCT TEMPORARY WIDENING IN THE SB INSIDE LANE.
8. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD

N

EXISTING R/W

STA 1359+00

12'
12'

IH-39 SB

+00 1360+00 1361+00 1362+00 1363+00 1364+00 1365+00 1366+00

50'

500'

MATCHLINE

IH-39 NB

SIGN

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	STAGING PLAN - MARATHON COUNTY STAGE 1	SHEET 92	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026101_S1.DWG PLOT DATE : 1/27/2016 11:21 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

2

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
4. INSTALL PERMANENT PAVEMENT MARKING

STAGE 2 NOTES:

1. SHIFT TRAFFIC TO WIDENED SB INSIDE LANE.
2. REMOVE WEST HALF OF EXISTING 42" AND 72" CULVERT PIPE.
3. INSTALL WEST HALF OF 42-INCH SSPRC.
4. INSTALL BASE AGGREGATE AND HMA FOR FINISHED TRAVEL LANE AND SHOULDER.
5. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD

N

EXISTING R/W

500'

IH-39 SB

12'

12'

1324+00 1325+00 1326+00 1327+00 1328+00 1329+00 1330+00 1331

+30

+30 11.4' LT

25'

100'

1

+05

SLOPE INTERCEPT

2

END ROAD WORK
G20-2A
48"X24"

STA 1331+00

MATCHLINE

IH-39 NB

SIGN

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	STAGING PLAN - MARATHON COUNTY STAGE 2	SHEET 93	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026102_S2.DWG PLOT DATE : 1/27/2016 11:23 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
4. INSTALL PERMANENT PAVEMENT MARKING

STAGE 2 NOTES:

1. SHIFT TRAFFIC TO WIDENED SB INSIDE LANE.
2. REMOVE WEST HALF OF EXISTING 42" AND 72" CULVERT PIPE.
3. INSTALL WEST HALF OF 42-INCH SSPRC.
4. INSTALL BASE AGGREGATE AND HMA FOR FINISHED TRAVEL LANE AND SHOULDER.
5. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD

N

BIRD LANE

SIGN

EXISTING R/W

SLOPE INTERCEPT

WETLAND BOUNDARY

STA 1331+00

STA 1338+00

+44 7.4' LT

+98

SEE SDD CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" FOR BARRIER END TREATMENT (TYP)

CARC

IH-39 SB

100'

1332+00 1333+00 1334+00 1335+00 1336+00 1337+00

+80 12'

+69 57.7' LT

INL

TEMPORARY SHORING

W05-52R 18"X54"

SLOPE INTERCEPT

42" RCCP

CABC

IH-39 NB

ASPH

SIGN

MATCHLINE

MATCHLINE

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	STAGING PLAN - MARATHON COUNTY STAGE 2	SHEET 94	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026102_S2.DWG PLOT DATE : 1/27/2016 11:24 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
4. INSTALL PERMANENT PAVEMENT MARKING

STAGE 2 NOTES:

1. SHIFT TRAFFIC TO WIDENED SB INSIDE LANE.
2. REMOVE WEST HALF OF EXISTING 42" AND 72" CULVERT PIPE.
3. INSTALL WEST HALF OF 42-INCH SSPRC.
4. INSTALL BASE AGGREGATE AND HMA FOR FINISHED TRAVEL LANE AND SHOULDER.
5. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD

N

SIGN

SIGN

EXISTING R/W

STA 1338+00

STA 1345+00

LANE CLOSED
R11-2L
48" X 30"

100'

50'

IH-39 SB

1339+00

1340+00

1341+00

1342+00

1343+00

1344+00

1345

12'

+64
7.3' RT

SLOPE INTERCEPT

MATCHLINE

MATCHLINE

IH-39 NB

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	STAGING PLAN - MARATHON COUNTY STAGE 2	SHEET 95	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026102_S2.DWG PLOT DATE : 1/27/2016 11:24 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
4. INSTALL PERMANENT PAVEMENT MARKING

STAGE 2 NOTES:

1. SHIFT TRAFFIC TO WIDENED SB INSIDE LANE.
2. REMOVE WEST HALF OF EXISTING 42" AND 72" CULVERT PIPE.
3. INSTALL WEST HALF OF 42-INCH SSPRC.
4. INSTALL BASE AGGREGATE AND HMA FOR FINISHED TRAVEL LANE AND SHOULDER.
5. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD

N

EXISTING R/W

STA 1345+00

STA 1352+00

SPEED LIMIT 70

COVER SIGN

1

100'

50'

IH-39 SB

+00 1346+00 1347+00 1348+00 1349+00 1350+00 1351+00 1352

+96

+10

INL

MATCHLINE

MATCHLINE

IH-39 NB

SIGN

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	STAGING PLAN - MARATHON COUNTY STAGE 2	SHEET 96	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026102_S2.DWG PLOT DATE : 7/26/2016 2:24 PM PLOT BY : BECKENDORF, RANDY PLOT NAME : PLOT SCALE : 1:50_XREF

2

2

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
4. INSTALL PERMANENT PAVEMENT MARKING

STAGE 2 NOTES:

1. SHIFT TRAFFIC TO WIDENED SB INSIDE LANE.
2. REMOVE WEST HALF OF EXISTING 42" AND 72" CULVERT PIPE.
3. INSTALL WEST HALF OF 42-INCH SSPRC.
4. INSTALL BASE AGGREGATE AND HMA FOR FINISHED TRAVEL LANE AND SHOULDER.
5. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD

N

EXISTING R/W

STA 1352+00

STA 1359+00

MATCHLINE

MATCHLINE

1

300'

50'

+50

500'

12'

12'

IH-39 SB

+00

1353+00

1354+00

1355+00

1356+00

1357+00

1358+00

1359

SLAB

IH-39 NB

SIGN

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	STAGING PLAN - MARATHON COUNTY STAGE 2	SHEET 97	E

2

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
4. INSTALL PERMANENT PAVEMENT MARKING

STAGE 2 NOTES:

1. SHIFT TRAFFIC TO WIDENED SB INSIDE LANE.
2. REMOVE WEST HALF OF EXISTING 42" AND 72" CULVERT PIPE.
3. INSTALL WEST HALF OF 42-INCH SSPRC.
4. INSTALL BASE AGGREGATE AND HMA FOR FINISHED TRAVEL LANE AND SHOULDER.
5. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD

N

EXISTING R/W

STA 1359+00

500'

50'

12'

12'

IH-39 SB

+00 1360+00 1361+00 1362+00 1363+00 1364+00 1365+00 1366+00

MATCHLINE

IH-39 NB

SIGN

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	STAGING PLAN - MARATHON COUNTY STAGE 2	SHEET 98	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026102_S2.DWG PLOT DATE : 1/27/2016 11:25 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
4. INSTALL PERMANENT PAVEMENT MARKING

STAGE 3 NOTES:

1. SHIFT TRAFFIC TO SB OUTSIDE LANE.
2. REMOVE TEMPORARY WIDENING ON SB INSIDE LANE AND RESTORE FILL SLOPES TO FINAL CROSS SECTIONS.
3. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD

N

EXISTING R/W

500'

IH-39 SB

12'

12'

1324+00

1325+00

1326+00

1327+00

1328+00

END ROAD WORK
G20-2A
48"X24"

+33

4

12'

1329+00

1330+00

1331

+50

25'

+05

2

STA 1331+00

MATCHLINE

IH-39 NB

SIGN

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	STAGING PLAN - MARATHON COUNTY STAGE 3	SHEET 99	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026103_S3.DWG PLOT DATE : 1/27/2016 11:26 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
4. INSTALL PERMANENT PAVEMENT MARKING

STAGE 3 NOTES:

1. SHIFT TRAFFIC TO SB OUTSIDE LANE.
2. REMOVE TEMPORARY WIDENING ON SB INSIDE LANE AND RESTORE FILL SLOPES TO FINAL CROSS SECTIONS.
3. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD

N

BIRD LANE

SIGN

EXISTING R/W

STA 1331+00

STA 1338+00

IH-39 SB

12'

+00 1332+00 1333+00 1334+00 1335+00 1336+00 1337+00 1338

LANE CLOSED
R11-2L
48" X 30"

42" RCCP

CABC

CABC

IH-39 NB

ASPH

CABC

SIGN

MATCHLINE

MATCHLINE

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	STAGING PLAN - MARATHON COUNTY STAGE 3	SHEET 100	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026103_S3.DWG PLOT DATE : 1/27/2016 11:27 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

2

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
4. INSTALL PERMANENT PAVEMENT MARKING

STAGE 3 NOTES:

1. SHIFT TRAFFIC TO SB OUTSIDE LANE.
2. REMOVE TEMPORARY WIDENING ON SB INSIDE LANE AND RESTORE FILL SLOPES TO FINAL CROSS SECTIONS.
3. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD

N

SIGN

SIGN

EXISTING R/W

STA 1338+00

STA 1345+00

2

4

12'

IH-39 SB

+00 1339+00 1340+00 1341+00 1342+00 1343+00 1344+00 1345

LANE CLOSED
R11-2L
48" X 30"

MATCHLINE

MATCHLINE

IH-39 NB

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	STAGING PLAN - MARATHON COUNTY STAGE 3	SHEET 101	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026103_S3.DWG PLOT DATE : 1/27/2016 11:27 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
4. INSTALL PERMANENT PAVEMENT MARKING

STAGE 3 NOTES:

1. SHIFT TRAFFIC TO SB OUTSIDE LANE.
2. REMOVE TEMPORARY WIDENING ON SB INSIDE LANE AND RESTORE FILL SLOPES TO FINAL CROSS SECTIONS.
3. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD

N

EXISTING R/W

STA 1345+00

STA 1352+00

SPEED LIMIT 70

COVER SIGN

2

4

+10

12'

IH-39 SB

+00

1346+00

1347+00

1348+00

1349+00

1350+00

1351+00

1352

50'

+60

INL

MATCHLINE

MATCHLINE

IH-39 NB

SIGN

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	STAGING PLAN - MARATHON COUNTY STAGE 3	SHEET 102	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026103_S3.DWG PLOT DATE : 7/26/2016 2:25 PM PLOT BY : BECKENDORF, RANDY PLOT NAME : PLOT SCALE : 1:50_XREF

WISDOT/CADDS SHEET 42

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
4. INSTALL PERMANENT PAVEMENT MARKING

STAGE 3 NOTES:

1. SHIFT TRAFFIC TO SB OUTSIDE LANE.
2. REMOVE TEMPORARY WIDENING ON SB INSIDE LANE AND RESTORE FILL SLOPES TO FINAL CROSS SECTIONS.
3. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- X X X X REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD

N

EXISTING R/W

STA 1352+00

STA 1359+00

2

IH-39 SB

1354+00

1355+00

1356+00

1357+00

1358+00

12'

12'

50'

300'

500'

+50

SLAB

MATCHLINE

MATCHLINE

IH-39 NB

SIGN

SCALE, FEET 0 25 50

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	STAGING PLAN - MARATHON COUNTY STAGE 3	SHEET 103	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\026103_S3.DWG PLOT DATE : 1/27/2016 11:27 AM PLOT BY : GUILLAMA, TINA PLOT NAME : PLOT SCALE : 1:50_XREF

2

TEMPORARY PAVEMENT MARKING LEGEND

1. REMOVABLE TAPE 4-INCH (WHITE)
2. REMOVABLE TAPE 4-INCH (YELLOW)
4. INSTALL PERMANENT PAVEMENT MARKING

STAGE 3 NOTES:

1. SHIFT TRAFFIC TO SB OUTSIDE LANE.
2. REMOVE TEMPORARY WIDENING ON SB INSIDE LANE AND RESTORE FILL SLOPES TO FINAL CROSS SECTIONS.
3. SEE ADVANCE WARNING SIGN DETAIL.

LEGEND

- TRAFFIC DIRECTION
- CONCRETE BARRIER TEMPORARY PRECAST
- TEMPORARY SHORING
- ASPHALTIC SURFACE TEMPORARY
- PROPOSED TEMPORARY SHOULDER
- FILL EXISTING RUMBLE STRIPS
- WORK ZONE
- HMA PAVEMENT SHOULDER (3.5")
- HMA PAVEMENT TRAVEL LANE (7.5")
- POST MOUNTED TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C WARNING LIGHT
- TYPE III BARRICADE (8' WIDE) WITH TWO TYPE A WARNING LIGHTS
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD

N

EXISTING R/W

STA 1359+00

IH-39 SB

+00 1360+00 1361+00 1362+00 1363+00 1364+00 1365+00 1366+00

12'

50'

500'

MATCHLINE

IH-39 NB

SIGN

SCALE, FEET 0 25 50

2

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	STAGING PLAN - MARATHON COUNTY STAGE 3	SHEET 104	E

DATE 17AUG16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1160-00-65 QUANTITY
0010	201.0105	Clearing	STA	4.000	4.000
0020	201.0120	Clearing	ID	120.000	120.000
0030	201.0205	Grubbing	STA	4.000	4.000
0040	203.0200	Removing Old Structure (station) 001. South Branch Ten Mile Creek 522+72	LS	1.000	1.000
0050	203.0200	Removing Old Structure (station) 002. South Branch Ten Mile Creek 522+80	LS	1.000	1.000
0060	203.0200	Removing Old Structure (station) 003. South Branch Ten Mile Creek 523+34	LS	1.000	1.000
0070	203.0200	Removing Old Structure (station) 004. South Branch Ten Mile Creek 522+42	LS	1.000	1.000
0080	203.0200	Removing Old Structure (station) 005. Marathon County 1333+27	LS	1.000	1.000
0090	204.0100	Removing Pavement	SY	1,455.000	1,455.000
0100	204.0120	Removing Asphaltic Surface Milling	SY	2,220.000	2,220.000
0110	204.0170	Removing Fence	LF	305.000	305.000
0120	204.0180	Removing Delineators and Markers	EACH	11.000	11.000
0130	204.0220	Removing Inlets	EACH	1.000	1.000
0140	204.0245	Removing Storm Sewer (size) 001. 42-Inch	LF	48.000	48.000
0150	205.0100	Excavation Common	CY	3,133.000	3,133.000
0160	210.0100	Backfill Structure	CY	474.000	474.000
0170	213.0100	Finishing Roadway (project) 001. 1160-00-65	EACH	1.000	1.000
0180	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,250.000	1,250.000
0190	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	3,130.000	3,130.000
0200	305.0500	Shaping Shoulders	STA	46.000	46.000
0210	311.0110	Breaker Run	TON	900.000	900.000
0220	455.0605	Tack Coat	GAL	480.000	480.000
0230	460.2000	Incentive Density HMA Pavement	DOL	720.000	720.000
0240	460.6223	HMA Pavement 3 MT 58-28 S	TON	460.000	460.000
0250	460.6224	HMA Pavement 4 MT 58-28 S	TON	660.000	660.000
0260	465.0125	Asphaltic Surface Temporary	TON	315.000	315.000
0270	465.0400	Asphaltic Shoulder Rumble Strips	LF	4,680.000	4,680.000
0280	504.0900	Concrete Masonry Endwalls	CY	24.400	24.400
0290	511.1100	Temporary Shoring	SF	2,285.000	2,285.000
0300	522.1042	Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	EACH	1.000	1.000
0310	603.8000	Concrete Barrier Temporary Precast Delivered	LF	1,350.000	1,350.000
0320	603.8125	Concrete Barrier Temporary Precast Installed	LF	3,700.000	3,700.000
0330	606.0300	Riprap Heavy	CY	50.000	50.000
0340	608.0342	Storm Sewer Pipe Reinforced Concrete Class III 42-Inch	LF	92.000	92.000
0350	610.0158	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 58x91-Inch	LF	446.000	446.000
0360	611.0642	Inlet Covers Type MS	EACH	2.000	2.000
0370	611.3902	Inlets Median 2 Grate	EACH	1.000	1.000
0380	612.0106	Pipe Underdrain 6-Inch	LF	286.000	286.000
0390	616.0100	Fence Woven Wire (height) 001. 4-FT	LF	305.000	305.000
0400	619.1000	Mobilization	EACH	1.000	1.000
0410	624.0100	Water	MGAL	75.000	75.000
0420	625.0100	Topsoil	SY	2,200.000	2,200.000
0430	628.1104	Erosion Bales	EACH	35.000	35.000
0440	628.1504	Silt Fence	LF	500.000	500.000

3

DATE 17AUG16 — E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1160-00-65 QUANTITY
0450	628.1520	Silt Fence Maintenance	LF	500.000	500.000
0460	628.1905	Mobilizations Erosion Control	EACH	8.000	8.000
0470	628.1910	Mobilizations Emergency Erosion Control	EACH	5.000	5.000
0480	628.2008	Erosion Mat Urban Class I Type B	SY	2,500.000	2,500.000
0490	628.6005	Turbidity Barriers	SY	50.000	50.000
0500	628.7005	Inlet Protection Type A	EACH	2.000	2.000
0510	628.7010	Inlet Protection Type B	EACH	2.000	2.000
0520	628.7504	Temporary Ditch Checks	LF	180.000	180.000
0530	628.7555	Culvert Pipe Checks	EACH	15.000	15.000
0540	628.7570	Rock Bags	EACH	35.000	35.000
0550	629.0210	Fertilizer Type B	CWT	4.000	4.000
0560	630.0120	Seeding Mixture No. 20	LB	45.000	45.000
0570	630.0160	Seeding Mixture No. 60	LB	4.000	4.000
0580	630.0300	Seeding Borrow Pit	LB	30.000	30.000
0590	631.0300	Sod Water	MGAL	55.000	55.000
0600	633.0100	Delineator Posts Steel	EACH	11.000	11.000
0610	633.0500	Delineator Reflectors	EACH	21.000	21.000
0620	633.5200	Markers Culvert End	EACH	9.000	9.000
0630	634.0620	Posts Wood 4x6-Inch X 20-FT	EACH	2.000	2.000
0640	637.2210	Signs Type II Reflective H	SF	37.500	37.500
0650	638.2602	Removing Signs Type II	EACH	1.000	1.000
0660	638.3000	Removing Small Sign Supports	EACH	2.000	2.000
0670	642.5001	Field Office Type B	EACH	1.000	1.000
0680	643.0100	Traffic Control (project) 001. 1160-00-65	EACH	1.000	1.000
0690	643.0300	Traffic Control Drums	DAY	15,025.000	15,025.000
0700	643.0420	Traffic Control Barricades Type III	DAY	320.000	320.000
0710	643.0705	Traffic Control Warning Lights Type A	DAY	590.000	590.000
0720	643.0715	Traffic Control Warning Lights Type C	DAY	4,470.000	4,470.000
0730	643.0800	Traffic Control Arrow Boards	DAY	450.000	450.000
0740	643.0900	Traffic Control Signs	DAY	5,155.000	5,155.000
0750	643.0920	Traffic Control Covering Signs Type II	EACH	2.000	2.000
0760	643.1050	Traffic Control Signs PCMS	DAY	325.000	325.000
0770	645.0120	Geotextile Type HR	SY	75.000	75.000
0780	645.0140	Geotextile Type SAS	SY	390.000	390.000
0790	646.0106	Pavement Marking Epoxy 4-Inch	LF	7,550.000	7,550.000
0800	646.0406	Pavement Marking Same Day Epoxy 4-Inch	LF	1,225.000	1,225.000
0810	646.0600	Removing Pavement Markings	LF	9,900.000	9,900.000
0820	646.0881.S	Pavement Marking Grooved Wet Reflective Tape 4-Inch	LF	825.000	825.000
0830	646.0883.S	Pavement Marking Grooved Wet Reflective Tape 8-Inch	LF	2,150.000	2,150.000
0840	647.0746	Pavement Marking Diagonal Epoxy 24-Inch	LF	300.000	300.000
0850	649.0400	Temporary Pavement Marking Removable Tape 4-Inch	LF	47,550.000	47,550.000
0860	649.0801	Temporary Pavement Marking Removable Tape 8-Inch	LF	1,950.000	1,950.000
0870	650.4000	Construction Staking Storm Sewer	EACH	5.000	5.000
0880	650.5000	Construction Staking Base	LF	326.000	326.000
0890	650.9910	Construction Staking Supplemental Control (project) 001. 1160-00-65	LS	1.000	1.000
0900	650.9920	Construction Staking Slope Stakes	LF	326.000	326.000
0910	690.0150	Sawing Asphalt	LF	3,610.000	3,610.000
0920	690.0250	Sawing Concrete	LF	835.000	835.000

3

DATE 17AUG16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1160-00-65 QUANTITY
0930	SPV.0035	Special 001. Abandon and Fill Culvert Pipes	CY	160.000	160.000
0940	SPV.0035	Special 002. Stream Bed Medium	CY	80.000	80.000
0950	SPV.0045	Special 001. Portable Changeable Message Sign PCMS Cellular Communications	DAY	325.000	325.000
0960	SPV.0060	Special 001. Cast in Place Reinforced Concrete Inlet	EACH	1.000	1.000
0970	SPV.0090	Special 001. Fill Existing Rumble Strips	LF	4,690.000	4,690.000
0980	SPV.0090	Special 002. Silt Fence Heavy Duty	LF	585.000	585.000
0990	SPV.0105	Special 001. Temporary Water Diversion - South Branch Ten Mile Creek	LS	1.000	1.000
1000	SPV.0105	Special 002. Temporary Water Diversion - Marathon County	LS	1.000	1.000
1010	SPV.0195	Special 001. Select Crushed Material for Travel Corridor	TON	25.000	25.000

3

3

CLEARING AND GRUBBING

LOCATION	201.0105 CLEARING STA	* 201.0120 CLEARING ID	201.0205 GRUBBING STA
PORTAGE COUNTY (CAT 0010)			
522+00 - 524+00 RT	2	---	2
523+00 - 525+00 LT*	2	120	2
TOTAL	4	120	4

*ON THE LT SIDE ONLY, CUT TREES IDENTIFIED BY THE ENGINEER INTO 8-FOOT SECTIONS AND STOCKPILE THEM ALONGSIDE THE RIGHT OF WAY FENCE. CUT AND STOCKPILED LOGS WILL BE MEASURED AND PAID BY THE INCH OF DIAMETER.

REMOVING OLD STRUCTURE

LOCATION	DESCRIPTION	203.0200 LS
SOUTH BRANCH TENMILE CREEK (CAT 0010)		
01. 522+72 29' RT - 129' RT	60" X 100' CMCP	1
02. 522+80 29' RT - 129' RT	60" X 100' CMCP	1
03. 523+34 65' LT - 80' LT	60" X 15' CPRC	1
04. 523+42 64' LT - 77' LT	60" X 13' CPRC	1
MARATHON COUNTY (CAT 0020)		
05. 1333+27 33' LT - 8' RT	72" X 41' CMPC	1

REMOVING PAVEMENT

LOCATION	204.0100 SY
PORTAGE COUNTY (CAT 0010)	1,265
MARATHON COUNTY (CAT 0020)	190
TOTAL	1,455

REMOVING DELINEATORS AND MARKERS

LOCATION	204.0180 EACH
PORTAGE COUNTY (CAT 0010)	11
TOTAL	11

REMOVING ASPHALTIC SURFACE MILLING

LOCATION	204.0120 SY
PORTAGE COUNTY (CAT 0010)	1,480
MARATHON COUNTY (CAT 0020)	740
TOTAL	2,220

3

EARTHWORK SUMMARY

Division	From/To Station	Location	A Item # 205.0100 Common Excavation (1) Cut (2) (CY)	B Item # 205.0100 Common Excavation (1) EBS Excavation (3)(4) (CY)	C * Salvaged/ Unusable Pavement Material (5) (CY)	D * Available Material (6) (CY)	E Item # 210.0100** Expanded EBS Backfill = Backfill Structure (7) Factor 1.20 (CY)	F * Unexpanded Fill (CY)	G * Expanded Fill (8) Factor 1.20 (CY)	H * Mass Ordinate +/- (9) (CY)	Waste (CY)	Comment:
IH-39 Portage South Branch Ten Mile Creek	522+40 - 524+20	Roadway	1,633	0	172	1,461	0	192	231	1,230	1,230	
	518+58 - 529+35	Temporary Widening	108	0	0	108	0	44	52	56	56	
	518+58 - 529+35	Temp. Widening Removal	31	0	31	0	0	0	0	0	31	
		Culvert Pipe Transition	500	0	0	500	0	0	0	500	500	See Construction Detail
		Undistributed EBS	0	195	0	0	234	0	0	0	195	
Subtotal CAT 0010			2,272	195	203	2,069	234	236	283	1,786	2,012	
IH-39 Marathon	1332+94 - 1333+64	Roadway	267	0	55	212	0	47	57	155	155	
	1329+05 - 1345+60	Temporary Widening	77	0	0	77	0	11	13	64	64	
	1329+05 - 1345+60	Temp. Widening Removal	52	0	52	0	0	0	0	0	52	
		Culvert Pipe Transition	270	0	0	270	0	0	0	270	270	See Construction Detail
Subtotal CAT 0020			666	0	107	559	0	58	70	489	541	
Project Total			2,938	195	310	2,628	234	294	353	2,275	2,553	
		Total Common Exc		3,133								

1) Common Excavation is the sum of the Cut (A) and EBS Excavation (B) columns.
2) Salvaged/Unsuable Pavement Material (C) is included in Cut (A).
3) EBS Excavation (E) to be backfilled with Structure Backfill material.
4) EBS Excavation material (B) shall be removed from the site and shall not be used as fill material. EBS Excavation material is not included in the mass ordinate.
5) Salvaged/Unsuable Pavement Material (C) is included in Cut (A). This assumes the existing pavement is salvaged or wasted by the contractor. The existing pavement structure is not shown in the cross sections.
6) Available Material (D) = Cut (A) - Salvaged/Unusuable Pavement Material (C)
7) Expanded EBS Backfill (E) - This is to be filled with Structure Backfill material. EBS Backfill factor 1.20. Item # 210.0100
8) Expanded Fill (G) = Unexpanded Fill (F) * Expanded Fill Factor (1.20)
9) The Mass Ordinate (H) = Available Material (D) - Expanded Fill (G). + 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.

*NOT A BID ITEM. COLUMN SHOW FOR INFORMATION ONLY.
**ADDITIONAL QUANTITIES SHOWN ELSEWHERE.

3

REMOVING FENCE

LOCATION	204.0170 LF
PORTAGE COUNTY (CAT 0010)	
521+58 - 523+48 RT	210
523+15 - 524+10 LT	95
TOTAL	305

REMOVING INLETS

LOCATION	204.0220 EACH
MARATHON COUNTY (CAT 0020)	
1333+29	1
TOTAL	1

BASE COURSE ITEMS

LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	311.0110 BREAKER RUN TON
PORTAGE COUNTY (CAT 0010)	840	1,900	750
MARATHON COUNTY (CAT 0020)	410	1,230	150
TOTAL	1,250	3,130	900

HMA PAVEMENT ITEMS

LOCATION	455.0605 TACK COAT GAL	460.6223 3MT58-28S TON	460.6224 4MT58-28S TON
PORTAGE COUNTY (CAT 0010)	380	400	470
MARATHON COUNTY (CAT 0020)	100	60	190
TOTAL	480	460	660

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REMOVING STORM SEWER 42-INCH

LOCATION	DESCRIPTION	204.0245 LF
MARATHON COUNTY (CAT 0020)		
1333+27	42" X 29' CPRC	29
1333+27	42" X 19' CPRC	19
TOTAL		48

SHAPING SHOULDERS

LOCATION	305.0500 STA
PORTAGE COUNTY (CAT 0010)	30
MARATHON COUNTY (CAT 0020)	16
TOTAL	46

ASPHALTIC SURFACE TEMPORARY

LOCATION	465.0125 TON
PORTAGE COUNTY (CAT 0010)	190
MARATHON COUNTY (CAT 0020)	125
TOTAL	315

ASPHALTIC SHOULDER RUMBLE STRIPS

LOCATION	465.0400 LF
PORTAGE COUNTY (CAT 0010)	3,025
MARATHON COUNTY (CAT 0020)	1,655
TOTAL	4,680

BACKFILL STRUCTURE*

LOCATION	210.0100 CY
PORTAGE COUNTY (CAT 0010)	240
TOTAL	240

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE
NOTE: USED FOR BACKFILLING INLET AND ENDWALLS

TEMPORARY SHORING

LOCATION	511.1100 SF
PORTAGE COUNTY (CAT 0010)	1,845
MARATHON COUNTY (CAT 0020)	440
TOTAL	2,285

STORM SEWER

LOCATION	INLET* STATION	INLET* OFFSET	INLET ELEV	DISCH* STATION	DISCH* OFFSET	DISCH ELEV	SLOPE %	GRATE ELEV	608.0342 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 42-INCH LF	610.0158 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 58 x 91-INCH LF	611.0642 INLET COVERS TYPE MS EACH	611.3902 INLETS MEDIAN 2 GRATE SINGLE SLOPE OPTION EACH
PORTAGE COUNTY (CAT 0010)	523+16	136' RT	1080.80	523+82	77' LT	1080.30	0.22%	1087.40	---	446	---	---
MARATHON COUNTY (CAT 0020)	1333+29	54' LT	1254.00	1333+29	38' RT	1253.04	1.04%	1257.30	92	---	2	1
TOTAL									92	446	2	1

*PORTAGE COUNTY INLET/OUTLET STATION AND OFFSET GIVEN TO CENTER OF 3' SPACE BETWEEN THE TWIN PIPES AT THE HEADWALL OF THE MASONRY ENDWALLS

3

ENDWALLS

LOCATION	504.0900 CONCRETE MASONRY ENDWALLS CY	522.1042 AEW FOR CULVERT PIPE REINFORCED CONCRETE 42-INCH EACH
PORTAGE COUNTY (CAT 0010)		
523+16 RT	12.9	---
523+82 LT	11.5	---
SUBTOTAL CAT 0010	24.4	0
MARATHON COUNTY (CAT 0020)		
1333+29	---	1
SUBTOTAL CAT 0010	0	1
TOTAL	24.4	1

CONCRETE BARRIER TEMPORARY PRECAST

LOCATION	603.8000 DELIVERED LF	603.8125 INSTALLED LF
PORTAGE COUNTY (CAT 0010)	1,000	3,060
MARATHON COUNTY (CAT 0020)	350	640
TOTAL	1,350	3,700

RIPRAP HEAVY

LOCATION	606.0300 RIPRAP HEAVY CY	645.0120 GEOTEXTILE FABRIC TYPE HR SY	SPV.0195.01 SELECT CRUSHED MATERIAL FOR TRAVEL CORRIDOR TON
PORTAGE COUNTY (CAT 0010)	50	75	25
TOTAL	50	75	25

3

PIPE UNDERDRAIN 6-INCH

LOCATION	612.0106 LF
PORTAGE COUNTY (CAT 0010)	
NB 522+40 - 523+86	146
MARATHON COUNTY (CAT 0020)	
SB 1332+94 - 1333+64	140
TOTAL	286

FENCE WOVEN WIRE 4-FT

LOCATION	616.0100 LF
PORTAGE COUNTY (CAT 0010)	
521+58 - 523+48 RT	210
523+15 - 524+10 LT	95
TOTAL	305

RESTORATION ITEMS

LOCATION	625.0100 TOPSOIL SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0160 SEEDING MIXTURE NO. 60 LB	630.0300 SEEDING BORROW PIT LB	631.0300 SOD WATER MGAL
PORTAGE COUNTY (CAT 0010)	1,560	2	28	3	---	39
UNDISTRIBUTED	160	1	7	1	25	4
SUBTOTAL CAT 0010	1,720	3	35	4	25	43
MARATHON COUNTY (CAT 0020)	435	0.5	8	---	---	11
UNDISTRIBUTED	45	0.5	2	---	5	1
SUBTOTAL CAT 0020	480	1	10	0	5	12
TOTAL	2,200	4	45	4	30	55

EROSION CONTROL ITEMS

LOCATION	628.1104 EROSION BALES EACH	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EACH	628.1910 MOBILIZATIONS EMERGENCY EACH	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.6005 TURBIDITY BARRIERS SY	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH	SPV.0090.02 SILT FENCE HEAVY DUTY LF
PORTAGE COUNTY (CAT 0010)	---	400	400	---	---	1,560	50	1	1	125	5	---	585
UNDISTRIBUTED	25	100	100	7	4	390	---	---	---	35	---	25	---
SUBTOTAL CAT 0010	25	500	500	7	4	1,950	50	1	1	160	5	25	585
MARATHON COUNTY (CAT 0020)	---	---	---	---	---	435	---	1	1	15	10	---	---
UNDISTRIBUTED	10	---	---	1	1	115	---	---	---	5	---	10	---
SUBTOTAL CAT 0020	10	0	0	1	1	550	0	1	1	20	10	10	0
TOTAL	35	500	500	8	5	2,500	50	2	2	180	15	35	585

3

WATER

LOCATION	624.0100 MGAL
PORTAGE COUNTY (CAT 0010)	29
UNDISTRIBUTED / DUST CONTROL	26
SUBTOTAL CAT 0010	55
MARATHON COUNTY (CAT 0020)	11
UNDISTRIBUTED / DUST CONTROL	9
SUBTOTAL CAT 0020	20
TOTAL	75

DELINEATORS

LOCATION	633.0100 DELINEATOR POSTS STEEL EACH	633.0500 DELINEATOR REFLECTORS EACH
PORTAGE COUNTY (CAT 0010)	11	21
TOTAL	11	21

MARKERS CULVERT END

LOCATION	633.5200 EACH
PORTAGE COUNTY (CAT 0010)	6
MARATHON COUNTY (CAT 0020)	3
TOTAL	9

PERMANENT SIGNING

SIGN #	SIGN CODE	SIGN SIZE	SIGN SIZE (IN)	637.2210 SIGNS TYPE II REFLECTIVE H SF	634.0620 POSTS WOOD 4X6-INCH X 20 FT EACH	REMARKS
PORTAGE (CAT 0010)						
1-01	E5-1A	(5)	90X60	37.50	2	EXIT 139
SUBTOTAL CAT 0010				37.50	2	
TOTAL				37.50	2	

3

REMOVING AND MOVING SIGNS

SIGN #	SIGN CODE	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
PORTAGE (CAT 0010)				
1R-01	E5-1A	1	2	EXIT 139
SUBTOTAL CAT 0010		1	2	
TOTAL		1	2	

COVERING SIGNS TYPE II

LOCATION	* NUMBER OF CYCLES	* NUMBER OF SIGNS	643.0920 EACH
MARATHON COUNTY (CAT 0020)	2	1	2
TOTAL			2

*NON-BID ITEM (FOR INFORMATION ONLY)

GEOTEXTILE FABRIC TYPE SAS

LOCATION	645.0140 SY
PORTAGE COUNTY (CAT 0010)	390
TOTAL	390

TRAFFIC CONTROL ITEMS

LOCATION	* DAYS PER LOCATION	643.0300 DRUMS DAY	643.0420 BARRICADES TYPE III DAY	643.0705 WARNING LIGHTS TYPE A DAY	643.0715 WARNING LIGHTS TYPE C DAY	643.0800 ARROW BOARDS DAY	643.0900 SIGNS DAY	** 643.1050 SIGNS PCMS DAY	** SPV.0045.01 PCMS CELLULAR COMMUNICATIONS DAY
PORTAGE COUNTY (CAT 0010)									
STAGE 1A	5	290	5	10	80	10	120	30	30
STAGE 1B	6	520	10	15	145	12	145	12	12
STAGE 2A	9	1,100	30	55	300	36	345	18	18
STAGE 2B	9	1,315	20	40	300	36	355	18	18
STAGE 3A	15	1,815	45	90	645	30	585	30	30
STAGE 3B	16	1,410	35	65	640	48	640	32	32
STAGE 4	28	2,690	30	60	535	84	1,010	56	56
STAGE 5A	14	1,275	30	60	505	42	505	28	28
STAGE 5B	14	1,880	45	60	465	56	520	28	28
UNDISTRIBUTED		1,230	25	50	365	46	425	33	33
SUBTOTAL CAT 0010	116	13,525	275	505	3,980	400	4,650	285	285
MARATHON COUNTY (CAT 0020)									
STAGE 1	7	450	15	30	115	14	155	17	17
STAGE 2	7	450	10	15	190	14	150	7	7
STAGE 3	7	460	15	30	140	14	150	7	7
UNDISTRIBUTED		140	5	10	45	8	50	9	9
SUBTOTAL CAT 0020	21	1,500	45	85	490	50	505	40	40
TOTAL	---	15,025	320	590	4,470	450	5,155	325	325

*NON-BID ITEM (FOR INFORMATION ONLY)
**QUANTITIES INCLUDE SIGNS PLACED PRIOR TO CONSTRUCTION

3

PAVEMENT MARKING

LOCATION	646.0106 EPOXY 4-INCH (WHITE) LF	646.0106 EPOXY 4-INCH (YELLOW) LF	646.0406 SAME DAY EPOXY 4-INCH (WHITE) LF	646.0881.S GROOVED WET REFLECTIVE TAPE 4-INCH (WHITE) LF	646.0883.S GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE) LF	647.0746 DIAGONAL EPOXY 24-INCH (WHITE) LF
PORTAGE COUNTY (CAT 0010)	1,700	2,000	1,225	---	2,150	300
SUBTOTAL CAT 0010	3,700					
MARATHON COUNTY (CAT 0020)	2,150	1,700	---	825	---	---
SUBTOTAL CAT 0020	3,850					
TOTAL	7,550		1,225	825	2,150	300

REMOVING PAVEMENT MARKINGS

LOCATION	646.0600 LF
PORTAGE COUNTY (CAT 0010)	
STAGE 1A	1,630
STAGE 1B	1,690
STAGE 2A	1,350
STAGE 2B	1,300
STAGE 3A	---
STAGE 3B	580
STAGE 4	---
STAGE 5A	---
STAGE 5B	---
SUBTOTAL CAT 0010	6,550
MARATHON COUNTY (CAT 0020)	
STAGE 1	3,350
STAGE 2	---
STAGE 3	---
SUBTOTAL CAT 0020	3,350
TOTAL	9,900

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE

LOCATION	649.0400 4-INCH (WHITE) LF	649.0400 4-INCH (YELLOW) LF	649.0801 8-INCH (WHITE) LF
PORTAGE COUNTY (CAT 0010)			
STAGE 1A	---	2,310	---
STAGE 1B	1,230	1,350	---
STAGE 2A	950	2,680	210
STAGE 2B	3,870	760	100
STAGE 3A	2,070	1,380	590
STAGE 3B	1,430	2,420	240
STAGE 4	2,290	820	360
STAGE 5A	1,370	2,250	250
STAGE 5B	5,630	640	200
SUBTOTAL CAT 0010	33,450		1,950
MARATHON COUNTY (CAT 0020)			
STAGE 1	---	3,250	---
STAGE 2	1,790	3,030	---
STAGE 3	3,010	3,020	---
SUBTOTAL CAT 0020	14,100		0
TOTAL	47,550		1,950

3

CONSTRUCTION STAKING STORM SEWER*

LOCATION	650.4000 EACH
PORTAGE COUNTY (CAT 0010)	
INLET	1
ENDWALL	2
SUBTOTAL CAT 0010	3
MARATHON COUNTY (CAT 0020)	
INLET	1
ENDWALL	1
SUBTOTAL CAT 0020	2
TOTAL	5

*ADDITIONAL STAKING ITEMS SHOWN ELSEWHERE

CONSTRUCTION STAKING*

LOCATION	650.5000 BASE LF	650.9920 SLOPE STAKES LF
PORTAGE COUNTY (CAT 0010)		
NB 522+40 - 523+86	146	146
SB 523+10 - 524+20	110	110
SUBTOTAL CAT 0010	256	256
MARATHON COUNTY (CAT 0020)		
SB 1332+94 - 1333+64	70	70
SUBTOTAL CAT 0020	70	70
TOTAL	326	326

*ADDITIONAL STAKING ITEMS SHOWN ELSEWHERE

CONSTRUCTION STAKING SUPPLEMENTAL CONTROL*

LOCATION	650.9910 LS
PORTAGE COUNTY (CAT 0010)	0.8
MARATHON COUNTY (CAT 0020)	0.2
TOTAL	1

*ADDITIONAL STAKING ITEMS SHOWN ELSEWHERE

SAWING CONCRETE

LOCATION	690.0250 LF
PORTAGE COUNTY (CAT 0010)	645
MARATHON COUNTY (CAT 0020)	190
TOTAL	835

3

SAWING ASPHALT

LOCATION	690.0150 LF
PORTAGE COUNTY (CAT 0010)	
522+40 NB	55
523+10 SB	50
523+86 NB	60
524+20 SB	55
NB SHOULDER WIDENING REMOVAL	485
SB SHOULDER WIDENING REMOVAL	1,045
STAGING	255
SHOULDERS	75
SUBTOTAL CAT 0010	2,080
MARATHON COUNTY (CAT 0020)	
1332+94 SB	40
1333+64 SB	40
SB SHOULDER WIDENING REMOVAL	1,370
STAGING	70
SHOULDERS	10
SUBTOTAL CAT 0020	1,530
TOTAL	3,610

ABANDON AND FILL CULVERT PIPES

LOCATION	DESCRIPTION	SPV.0035.01 CY
PORTAGE COUNTY (CAT 0010)		
523+10 66' LT - 29' RT	60" X 105' CPRC	80
523+17 64' LT - 29' RT	60" X 105' CPRC	80
TOTAL		160

STREAM BED MEDIUM

LOCATION	SPV.0035.02 CY
PORTAGE COUNTY (CAT 0010)	80
TOTAL	80

3

CAST IN PLACE REINFORCED CONCRETE INLET

LOCATION	SPV.0060.01 EACH
SOUTH BRANCH TENMILE CREEK (CAT 0010)	1
TOTAL	1

FILL EXISTING RUMBLE STRIPS

LOCATION	SPV.0090.01 LF
PORTAGE COUNTY (CAT 0010)	3,030
MARATHON COUNTY (CAT 0020)	1,660
TOTAL	4,690

TEMPORARY WATER DIVERSION

LOCATION	SPV.0105.01 LS	SPV.0105.02 LS
SOUTH BRANCH TENMILE CREEK (CAT 0010)	1	---
MARATHON COUNTY (CAT 0020)	---	1
TOTAL	1	1

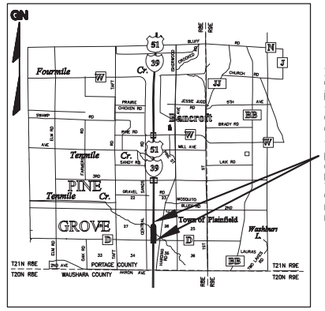
HWY	BASIS OF EXISTING R/W	R/W WIDTH	YEAR
IH-39	WIS-DOT ID.1163-01-21, USH-51	VARIES	1976
IH-39	F 05-3 (43)	VARIES	1956
CTH D	WIS-DOT ID.1163-01-21, USH-51	VARIES	1976

SCHEDULE OF LANDS & INTEREST 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	INTEREST REQUIRED	AREAS ACRES REQUIRED			TLE ACRES	PLE ACRES
			NEW	EXISTING	TOTAL		
1	BOVEE PL & OA, TRUST DATED DEC. 11, 1997	TLE	-	-	-	0.030	-
2	PETER R. & ANNE C. STUDLEY	TLE	-	-	-	0.073	-

LOCATION MAP



PROJECT LOCATION

NOT TO SCALE

SCALE, FEET

0 100 200

GN

R/W PROJECT NUMBER 1160-00-25	SHEET NUMBER	TOTAL SHEETS
FEDERAL PROJECT NUMBER	4.1	

PLAT OF RIGHT OF WAY REQUIRED FOR

IH-39

CTH D – SOUTH BRANCH TENMILE CREEK

IH-39 PORTAGE COUNTY

CONSTRUCTION NO.

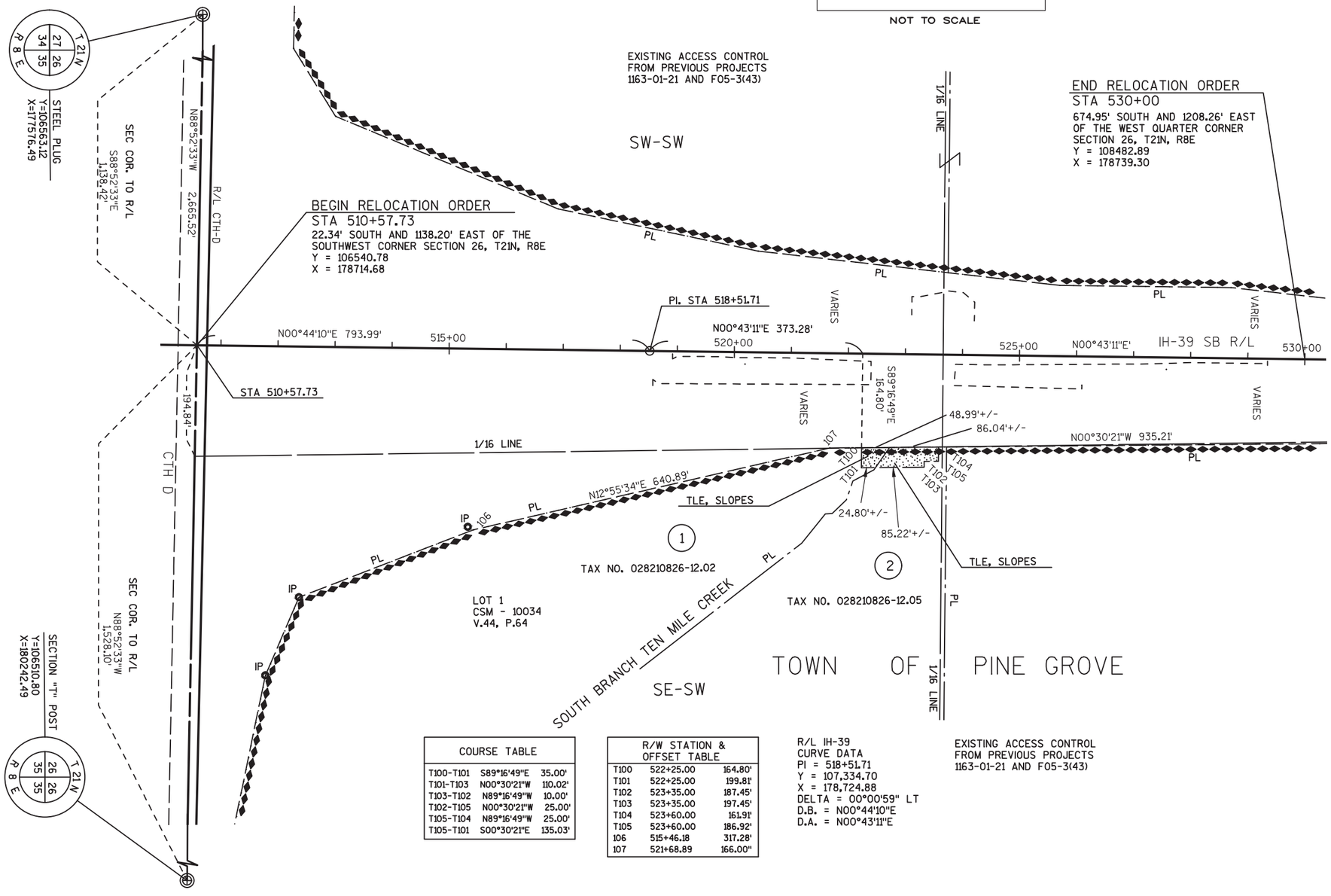
NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, PORTAGE 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.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WISCONSIN RAPIDS.
EXISTING ACCESS CONTROL FOR IH-39 ESTABLISHED FROM PREVIOUS RIGHT OF WAY PROJECT ID.1163-01-21, 1976 AND PROJECT F05-3(43).

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



COURSE TABLE		
T100-T101	S89°16'49"E	35.00'
T101-T103	N00°30'21"W	110.02'
T103-T102	N89°16'49"W	10.00'
T102-T105	N00°30'21"W	25.00'
T105-T104	N89°16'49"W	25.00'
T105-T101	S00°30'21"E	135.03'

R/W STATION & OFFSET TABLE		
T100	522+25.00	164.80'
T101	522+25.00	199.81'
T102	523+35.00	187.45'
T103	523+35.00	197.45'
T104	523+60.00	161.91'
T105	523+60.00	186.92'
106	515+46.18	317.28'
107	521+68.89	166.00"

R/L IH-39
CURVE DATA
PI = 518+51.71
Y = 107,334.70
X = 178,724.88
DELTA = 00°00'59" LT
D.B. = N00°44'10"E
D.A. = N00°43'11"E

EXISTING ACCESS CONTROL FROM PREVIOUS PROJECTS 1163-01-21 AND F05-3(43)

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	⅝ (1" UNLESS NOTED)	PROPOSED R/W LINE	
R/W MONUMENT	●(SET)	PROPERTY LINE	
R/W STANDARD	▲(SET)	LOT & TIE LINES	
SIGN		SLOPE INTERCEPTS	
SECTION CORNER MONUMENT		SECTION LINE	
SECTION CORNER SYMBOL		QUARTER LINE	
TEMPORARY LIMITED EASEMENT	TLE(PERM)	SIXTEENTH LINE	
R/W BOUNDARY POINT	RWB20	PROPOSED REFERENCE LINE	
PARCEL NUMBER	103	PARALLEL OFFSET	
UTILITY NUMBER	(92)	ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	
TLE POINT NUMBER	TXXX		

CONVENTIONAL ABBREVIATIONS

ACRES	AC.	SOUTHEAST	SE
CERTIFIED SURVEY MAP	CSM	SOUTHWEST	SW
CORNER	COR.	STATION	STA.
DOCUMENT	DOC.	TEMPORARY LIMITED EASEMENT	TLE
EASEMENT	EASE.	VOLUME	V.
MONUMENT	MON.	POINT OF INTERSECTION	PI
NORTHEAST	NE		
NORTHWEST	NW		
PAGE	P.		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	R/L		

ORIGINAL PLAT PREPARED BY

R.A. Smith National
Beyond Surveying and Engineering
16745 W. Bluemound Road, Brookfield WI 53005
262-781-1000 Fax 262-781-8466
www.rasmithnational.com

WISCONSIN
NATHAN A. VAUGHN
S-2986
JOHNSON CREEK
WI
LAND SURVEYOR

DATE: 11/18/2015

LAND SURVEYOR

REVISION DATE: 10-5-15

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED FOR DISTRICT OFFICE:

DATE: _____ _____
(Signature)

E

LEGEND

XXXXXXX SAWCUT

DIRECTION OF FLOW

PERMITTED WETLAND DISTURBANCE

HMA PAVEMENT SHOULDER (3.5")

HMA PAVEMENT TRAVEL LANE (7.5")

N

NOTES

SLOPE INTERCEPTS SHOWN FOR TEMPORARY LANE SHIFT DURING CONSTRUCTION

EXISTING R/W SHOWN FROM GIS DATA PROVIDED BY PORTAGE COUNTY

5

5

508+00

509+00

510+00

511+00 N0° 44' 10"E

512+00

513+00

514

STA 514+00

IH-39 SB R/L

IH-39 SB

IH-39 NB

ASPH

CONC

CABC

18" RCCP

12" CMCP

+60 XX

4"

MATCHLINE

SCALE, FEET 0 20 40

PROJECT NO:1160-00-65	HWY:IH-39	COUNTY:PORTAGE	PLAN SHEET - SOUTH BRANCH TENMILE CREEK	SHEET 115	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\050201_PN.DWG PLOT DATE : 9/3/2008 9:39 AM PLOT BY : GUILLAMA, TINA PLOT NAME :

WISDOT/CADDS SHEET 44

BENCHMARKS

NO.	LOCATION	DESCRIPTION	ELEV
CP104	STA 514+77, 11' RT	HUB, SB INSIDE SHOULDER	1091.83

LEGEND
XXXXXXX SAWCUT
DIRECTION OF FLOW
PERMITTED WETLAND DISTURBANCE
HMA PAVEMENT SHOULDER (3.5")
HMA PAVEMENT TRAVEL LANE (7.5")

NOTES
SLOPE INTERCEPTS SHOWN FOR TEMPORARY LANE SHIFT DURING CONSTRUCTION

EXISTING R/W SHOWN FROM GIS DATA PROVIDED BY PORTAGE COUNTY

N

STA 514+00
STA 520+00
MATCHLINE
MATCHLINE
5
5
CABC
ASPH
24" RCCP
18" RCCP
SIGN
IH-39 SB R/L
IH-39 SB
IH-39 NB
515+00
516+00
517+00
518+00
519+00
520
N0° 44' 10"E
N0° 43' 11"E
518+51.71
+81 XX
+92 XX
+58 XX
+54
CP104
SLOPE INTERCEPT
2'
4'
10'
XXXXX
SCALE, FEET 0 20 40

PROJECT NO:1160-00-65	HWY:IH-39	COUNTY:PORTAGE	PLAN SHEET - SOUTH BRANCH TENMILE CREEK	SHEET 116	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\050201_PN.DWG PLOT DATE : 9/3/2008 9:39 AM PLOT BY : GUILLAMA, TINA PLOT NAME :

BENCHMARKS

NO.	LOCATION	DESCRIPTION	ELEV
CP103	STA 523+50, 10' RT	HUB, SB INSIDE SHOULDER	1088.67
CP107	STA 524+06, 55' RT	HUB, NB INSIDE SHOULDER	1089.24

RESTORE OLD STREAM BED TO ELEVATION APPROXIMATELY LEVEL WITH SURROUNDING GROUND AND PLANT WITH SEEDING MIXTURE NO. 60

REMOVE OLD STRUCTURE
STA 523+42
1-60"X13' CPRC
SEE CONSTRUCTION DETAIL

REMOVE OLD STRUCTURE
STA 523+34
1-60"X15' CPRC
SEE CONSTRUCTION DETAIL

SOUTH BRANCH TENMILE CREEK

RUFFALO

EXISTING R/W

LEGEND
XXXXXXX SAWCUT
DIRECTION OF FLOW
PERMITTED WETLAND DISTURBANCE
HMA PAVEMENT SHOULDER (3.5")
HMA PAVEMENT TRAVEL LANE (7.5")

NOTES
SLOPE INTERCEPTS SHOWN FOR TEMPORARY LANE SHIFT DURING CONSTRUCTION

SLOPE INTERCEPT

+15.2
76.1' LT

+10.2
73.8' LT

REMOVE FENCE

FENCE WOVEN WIRE 4-FT

CONSTRUCT SUBGRADE
DRAIN STA 524+20 SB

ABANDON AND FILL CULVERT PIPES
FROM 66' LT TO 29' RT
2-60"X105' CPRC
SEE CONSTRUCTION DETAIL

STA 520+00

STA 526+00

IH-39 SB R/L

IH-39 SB

+00 521+00 522+00 NO° 43' 11"E 523+00 524+00 525+00 526

SLOPE INTERCEPT

APPROXIMATE LIMITS
OF 60" CMCP REMOVAL

CP103

CAST IN PLACE INLET

CP107

END CONSTRUCTION
STA. 524+20

BEGIN CONSTRUCTION
STA. 522+40
X = 178,729.7592
Y = 107,722.9555

STA 523+58
C-49-22
2-58X91-INCH X 223' SSPRCHE CLASS III
17° SKEW LHF
CONCRETE MASONRY ENDWALLS REQ'D

IH-39 NB

CONSTRUCT SUBGRADE
DRAIN STA 523+86 NB

FENCE WOVEN WIRE 4-FT

WETLAND BOUNDARY

+43.8
161.4' RT

+54.9
163.3' RT

+47.5
161.6' RT

+38.9
161.6' RT

SLOPE INTERCEPT

EXISTING R/W

PERMITTED WETLAND IMPACT
0.100 ACRES

FENCE WOVEN WIRE 4-FT

REMOVE OLD STRUCTURE
STA 522+72
1-60"X100' CMCP

REMOVE FENCE

RESTORE OLD STREAM BED TO ELEVATION APPROXIMATELY LEVEL WITH SURROUNDING GROUND AND PLANT WITH SEEDING MIXTURE NO. 60

REMOVE OLD STRUCTURE
STA 522+80
1-60"X100' CMCP

MATCHLINE

MATCHLINE

BOVEE PL & OA

STUDLEY

TLE

HOWELL

SCALE, FEET 0 20 40

PROJECT NO:1160-00-65	HWY:IH-39	COUNTY:PORTAGE	PLAN SHEET - SOUTH BRANCH TENMILE CREEK	SHEET 117	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\050201_PN.DWG PLOT DATE : 9/3/2008 9:39 AM PLOT BY : GUILLAMA, TINA PLOT NAME :

WISDOT/CADDS SHEET 44

BENCHMARKS

NO.	LOCATION	DESCRIPTION	ELEV
CP102	STA 534+37, 11' RT	HUB, SB INSIDE SHOULDER	1090.42

N

LEGEND

XXXXXXX SAWCUT

DIRECTION OF FLOW

PERMITTED WETLAND DISTURBANCE

HMA PAVEMENT SHOULDER (3.5")

HMA PAVEMENT TRAVEL LANE (7.5")

NOTES

SLOPE INTERCEPTS SHOWN FOR TEMPORARY LANE SHIFT DURING CONSTRUCTION

EXISTING R/W SHOWN FROM GIS DATA PROVIDED BY PORTAGE COUNTY

RUFFALO

EXISTING R/W

SIGN

WETLAND BOUNDARY

STA 526+00

CABC

+35

+59

IH-39 SB

4"

15" RCC

ASPH

IH-39 SB R/L

+00

527+00

528+00

529+00

530+00

N0° 43' 11"E

531+00

532+00

CP102

2"

SLOPE INTERCEPT

+10

IH-39 NB

MATCHLINE

EXISTING R/W

HOWELL

SCALE, FEET 0 20 40

PROJECT NO:1160-00-65	HWY:IH-39	COUNTY:PORTAGE	PLAN SHEET - SOUTH BRANCH TENMILE CREEK	SHEET 118	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\050201_PN.DWG PLOT DATE : 9/3/2008 9:39 AM PLOT BY : GUILLAMA, TINA PLOT NAME :

WISDOT/CADDS SHEET 44

LEGEND

XXXXXXX SAWCUT

DIRECTION OF FLOW

PERMITTED WETLAND DISTURBANCE

HMA PAVEMENT SHOULDER (3.5")

HMA PAVEMENT TRAVEL LANE (7.5")

NOTES

SLOPE INTERCEPTS SHOWN FOR TEMPORARY LANE SHIFT DURING CONSTRUCTION

EXISTING R/W LOCATION IS APPROXIMATE

N

GANSER

EXISTING R/W

5

IH-39 SB

IH-39 SB R/L

1324+00

1325+00

1326+00

1327+00

N0° 39' 04"W

1328+00

1329+00

1330

STA 1330+00

4"

2"

+05

SLOPE INTERCEPT

MATCHLINE

5

IH-39 NB

TOWN OF KNOWLTON

PROJECT NO:1160-00-65	HWY:IH-39	COUNTY:MARATHON	PLAN SHEET - MARATHON COUNTY	SCALE, FEET 0 20 40	SHEET 119	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\050202_PN.DWG PLOT DATE : 9/3/2008 9:39 AM PLOT BY : GUILLAMA, TINA PLOT NAME :

BENCHMARKS

NO.	LOCATION	DESCRIPTION	ELEV
BM 1	STA 1339+11, 237' RT	HARN MONUMENT (MOSINEE GPS PN 1347). CALIBRATED TO FOR ALL ELEV.	1263.24
BM 2	STA 1332+96, 119' LT	8" SPIKE IN POWER POLE NEAR R/W FENCE ON WEST SIDE OF IH-39	1265.89

NOTES

SLOPE INTERCEPTS SHOWN FOR TEMPORARY LANE SHIFT DURING CONSTRUCTION

EXISTING R/W LOCATION IS APPROXIMATE

LEGEND

XXXXXXX SAWCUT

DIRECTION OF FLOW

PERMITTED WETLAND DISTURBANCE

HMA PAVEMENT SHOULDER (3.5")

HMA PAVEMENT TRAVEL LANE (7.5")

N

BIRD LANE

GANSER

SIGN

DUPUIS FARM LLC

EXISTING R/W

BM 2

PERMITTED WETLAND IMPACT
0.03 ACRES

SLOPE INTERCEPT

REMOVE STORM SEWER
STA 1333+27
1-42"X29' CPRC
1-42"X19' CPRC

REMOVE OLD STRUCTURE
STA 1333+27
1-72"X41' CMPC

WETLAND BOUNDARY

CONSTRUCT SUBGRADE DRAIN STA 1332+94 SB

42" RCCP

CABC

ASPH

IH-39 SB

IH-39 SB R/L

STA 1330+00

STA 1336+00

5

5

+00 N0° 39' 04"W 1331+00 1332+00 1333+00 1334+00 1335+00 1336

4'

2'

10'

12'

12'

MATCHLINE

MATCHLINE

BEGIN CONSTRUCTION
STA. 1332+94
X = 268,273.4607
Y = 133,366.9688

REMOVE INLET AND REPLACE WITH INLET MEDIAN 2 GRATE

STA 1333+29
C-37-9011
1-42-INCH X 92' SSPRC CLASS III
1-AECPRC 42-INCH REQ'D

END CONSTRUCTION
STA. 1333+64

SLOPE INTERCEPT

IH-39 NB

TOWN OF KNOWLTON

CITY OF MOSINEE

SIGN

SIGN

EXISTING 42" CPRC
TO REMAIN

BM 1

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	PLAN SHEET - MARATHON COUNTY	SCALE, FEET 0 20 40	SHEET 120	E

BENCHMARKS

NO.	LOCATION	DESCRIPTION	ELEV
BM 1	STA 1339+11, 237' RT	HARN MONUMENT (MOSINEE GPS PN 1347). CALIBRATED TO FOR ALL ELEV.	1263.24

LEGEND

XXXXXXX SAWCUT

DIRECTION OF FLOW

PERMITTED WETLAND DISTURBANCE

HMA PAVEMENT SHOULDER (3.5")

HMA PAVEMENT TRAVEL LANE (7.5")

NOTES

SLOPE INTERCEPTS SHOWN FOR TEMPORARY LANE SHIFT DURING CONSTRUCTION

EXISTING R/W LOCATION IS APPROXIMATE

N

SIGN

DUPUIS FARM LLC

EXISTING R/W

WETLAND BOUNDARY

STA 1336+00

STA 1342+00

IH-39 SB

IH-39 SB R/L

2%

4%

+00

N0° 39' 04"W

1337+00

1338+00

1339+00

1340+00

1341+00

1342

SLOPE INTERCEPT

MATCHLINE

MATCHLINE

IH-39 NB

CITY OF MOSINEE

BM 1

5

5

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	PLAN SHEET - MARATHON COUNTY	SCALE, FEET 0 20 40	SHEET 121	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\050202_PN.DWG PLOT DATE : 9/3/2008 9:39 AM PLOT BY : GUILLAMA, TINA PLOT NAME :

LEGEND

XXXXXXX SAWCUT

DIRECTION OF FLOW

PERMITTED WETLAND DISTURBANCE

HMA PAVEMENT SHOULDER (3.5")

HMA PAVEMENT TRAVEL LANE (7.5")

NOTES

SLOPE INTERCEPTS SHOWN FOR TEMPORARY LANE SHIFT DURING CONSTRUCTION

EXISTING R/W LOCATION IS APPROXIMATE

N

SIGN

CITY OF MOSINEE

EXISTING R/W

STA 1342+00

5

IH-39 SB

IH-39 SB R/L

2'

4'

+00

1343+00

1344+00

1345+00

+60

1346+00

N0° 39' 04"W

1347+00

1348+00

5

SLOPE INTERCEPT

MATCHLINE

INL

IH-39 NB

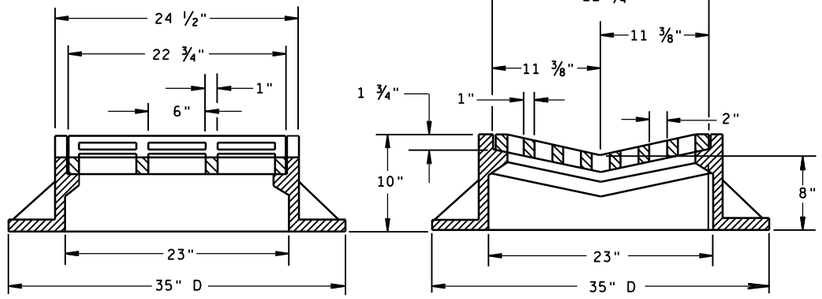
CITY OF MOSINEE

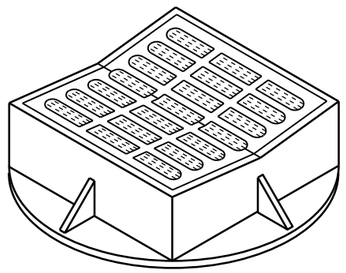
PROJECT NO:1160-00-65	HWY:IH-39	COUNTY:MARATHON	PLAN SHEET - MARATHON COUNTY	SCALE, FEET 0 20 40	SHEET 122	E

Standard Detail Drawing List

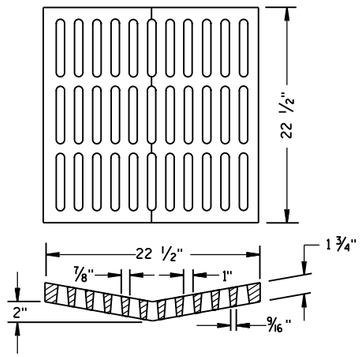
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08C08-01	INLETS MEDIAN 1 AND 2 GRATE
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E11-02	TURBIDITY BARRIER
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F10-01	CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
13A05-05A	SHOULDER RUMBLE STRIP, MILLING
13A05-05B	SHOULDER RUMBLE STRIP, MILLING
14B07-14A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-02A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
15A02-08	DELINEATOR POST, DELINEATOR, AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15A06-02	DELINEATOR LAYOUT
15B01-08A	FENCE WOVEN WIRE
15B01-08B	FENCE WOVEN WIRE
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C19-03C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C31-01A	PAVEMENT MARKING (RAMPS AND GORES)
15D03-03	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER
15D12-06A	TRAFFIC CONTROL, LANE CLOSURE
15D12-06B	TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION
15D15-02	TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE
15D27-02	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D29-03	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD
15D38-01A	TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS
15D38-01B	ATTACHMENT OF SIGNS TO POSTS

6



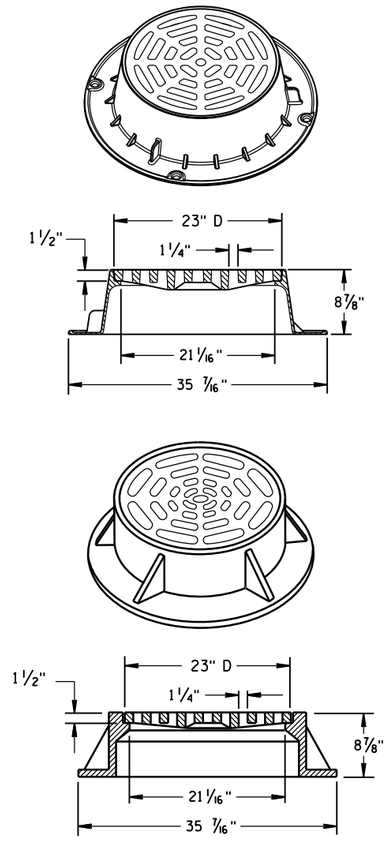


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

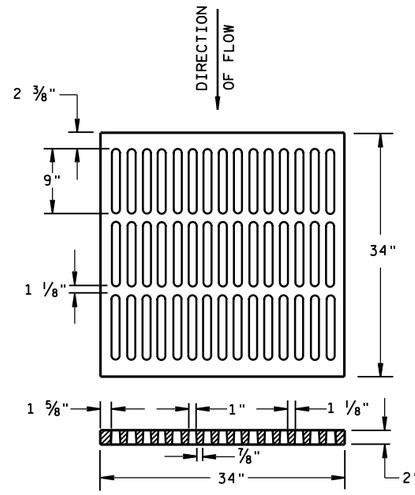
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

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

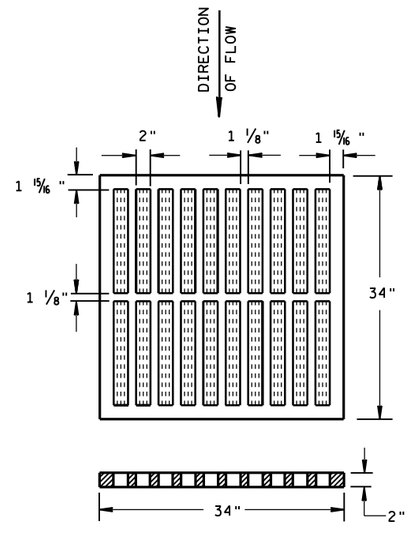
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



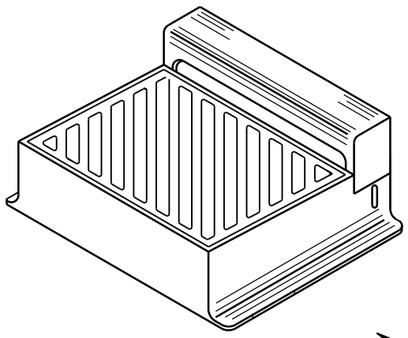
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

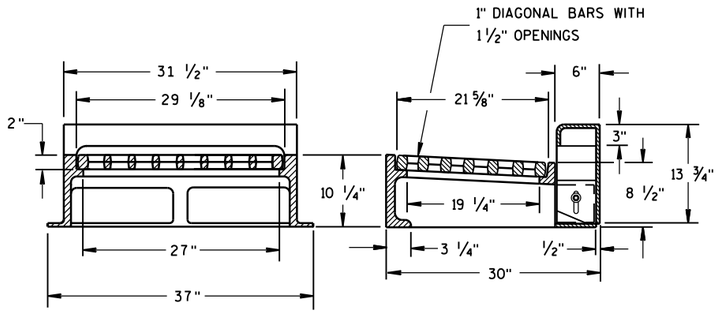


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

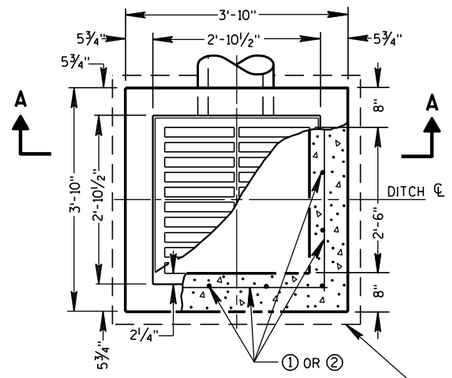
INLET COVERS
TYPE B, B-A, C,
MS, MS-A, & WM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

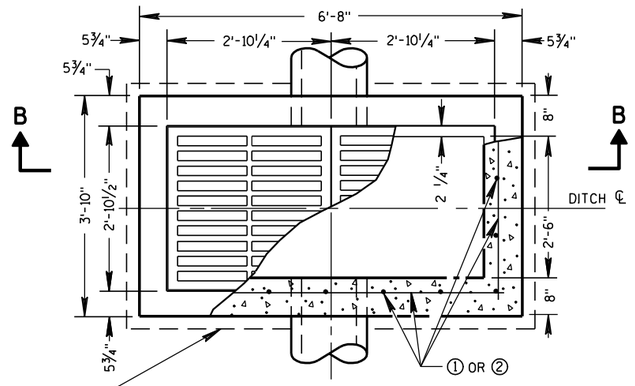
APPROVED
11/27/2013
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 A 5-19b

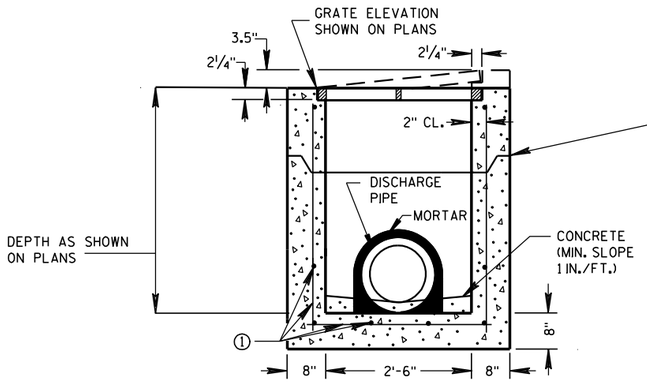


PLAN VIEW

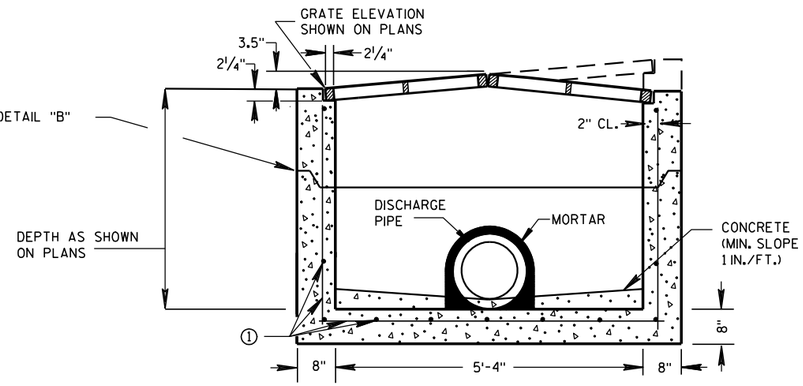


PLAN VIEW

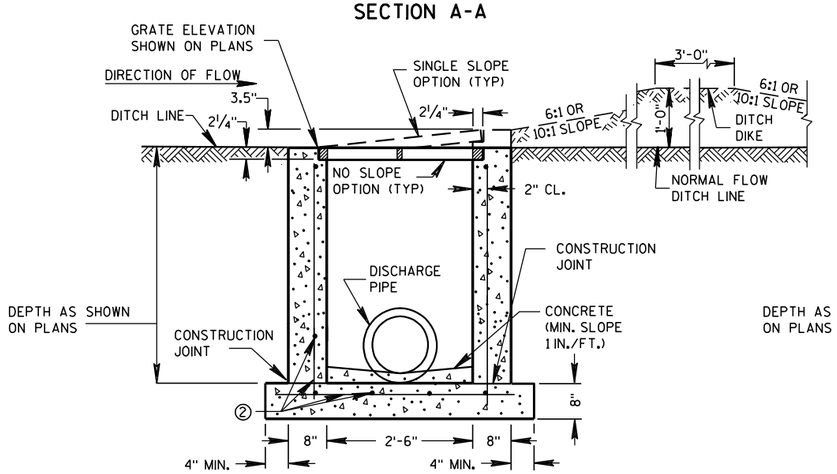
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



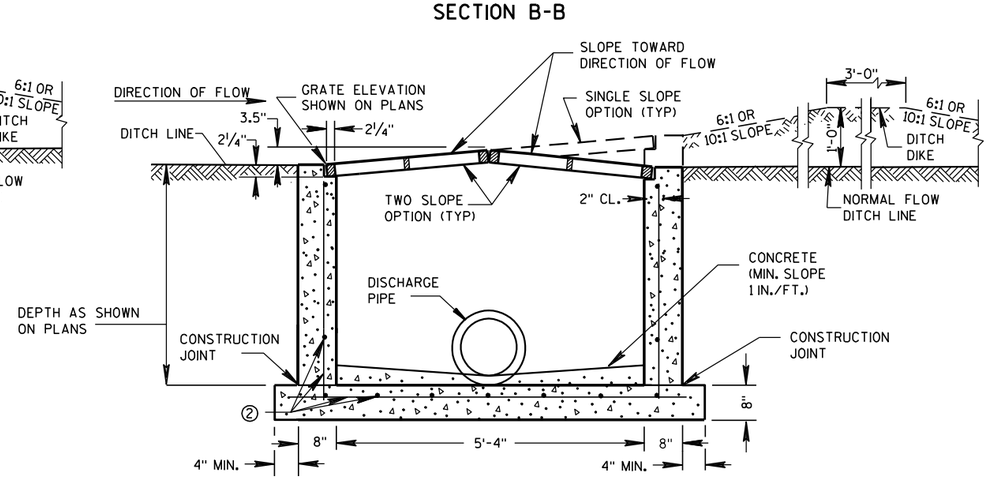
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

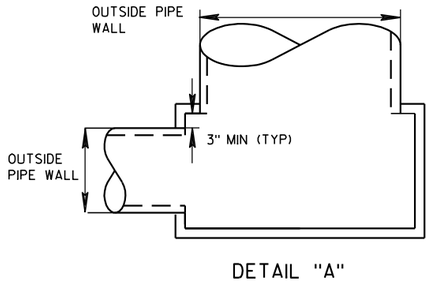
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

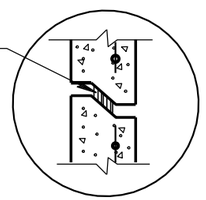
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

INLETS MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/5/2012 — DATE

/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

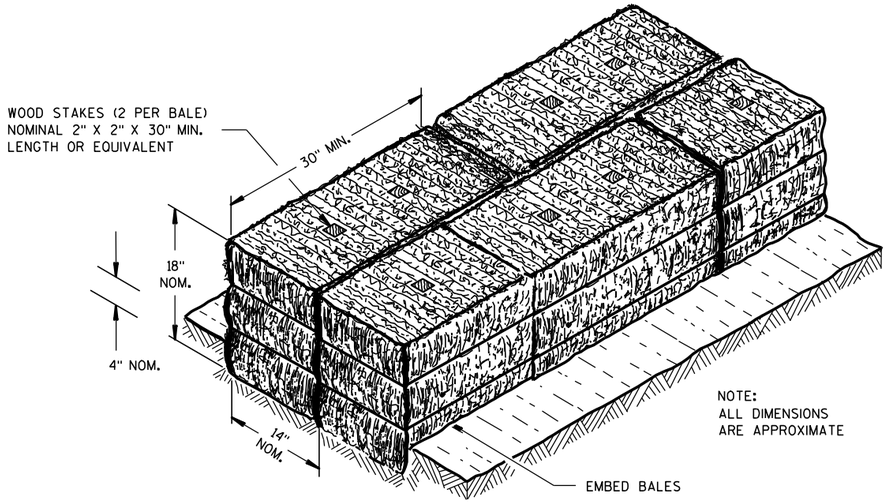
FHWA

6

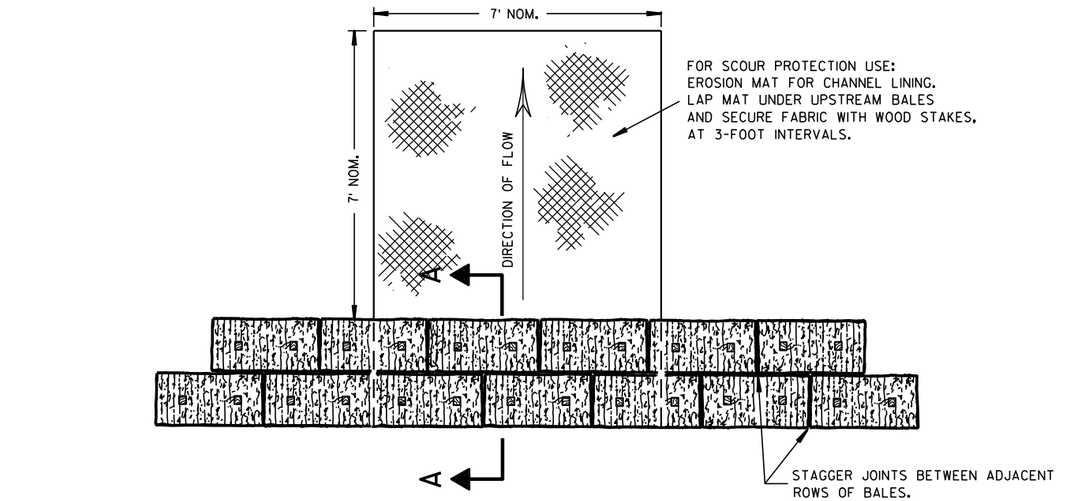
S.D.D. 8 C 8-1

6

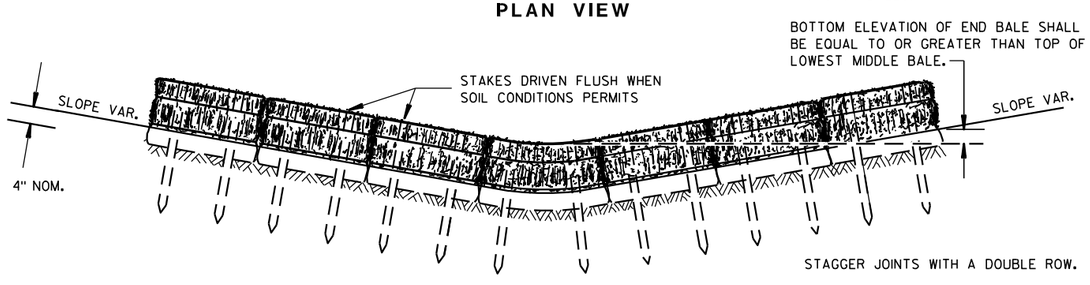
S.D.D. 8 C 8-1



SECTION A-A



PLAN VIEW



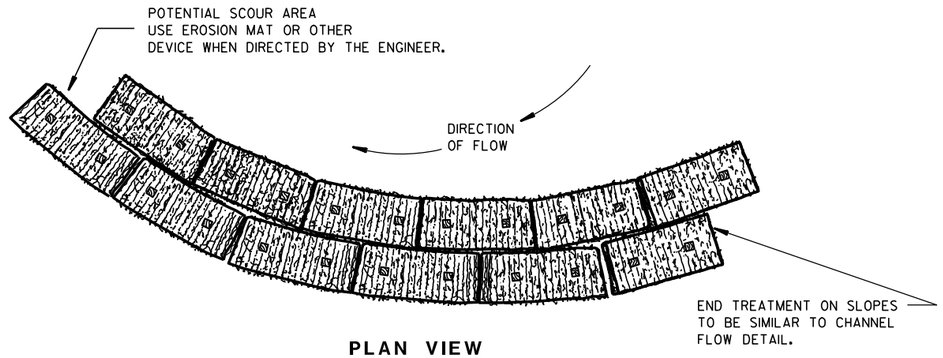
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

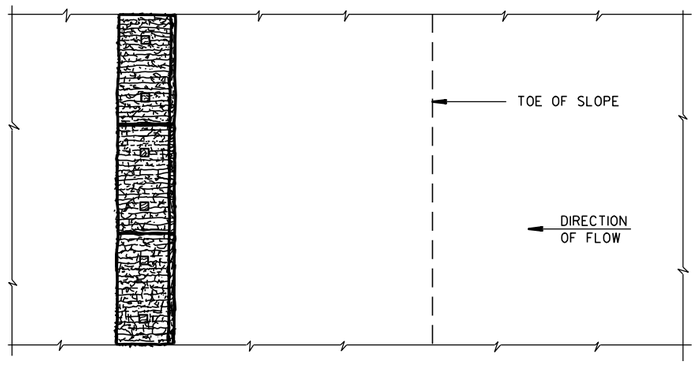
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

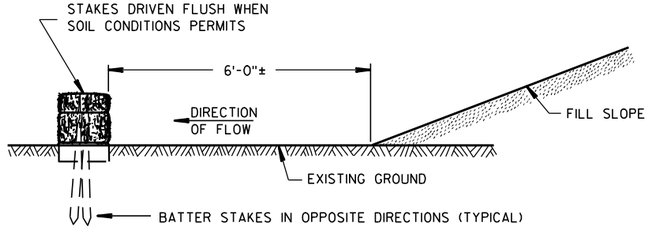


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

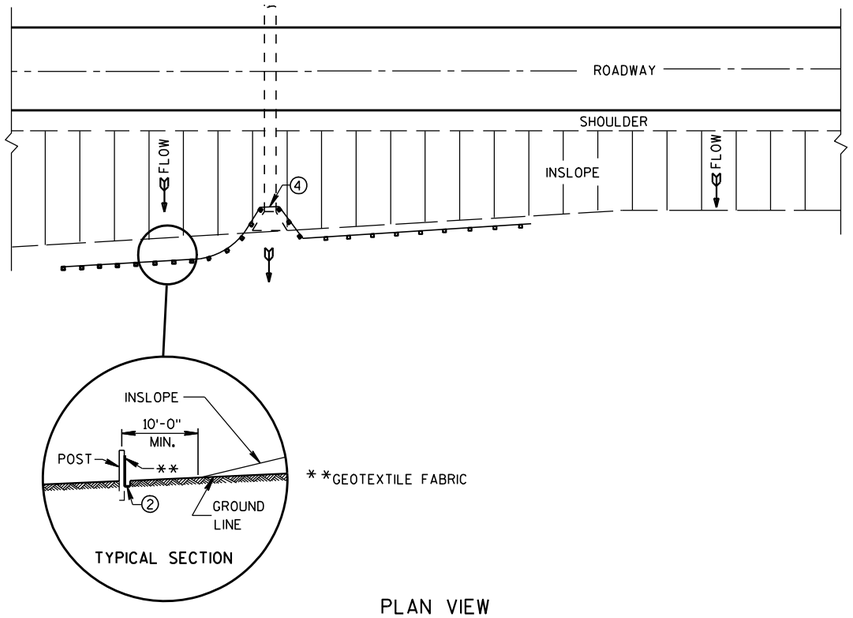
APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

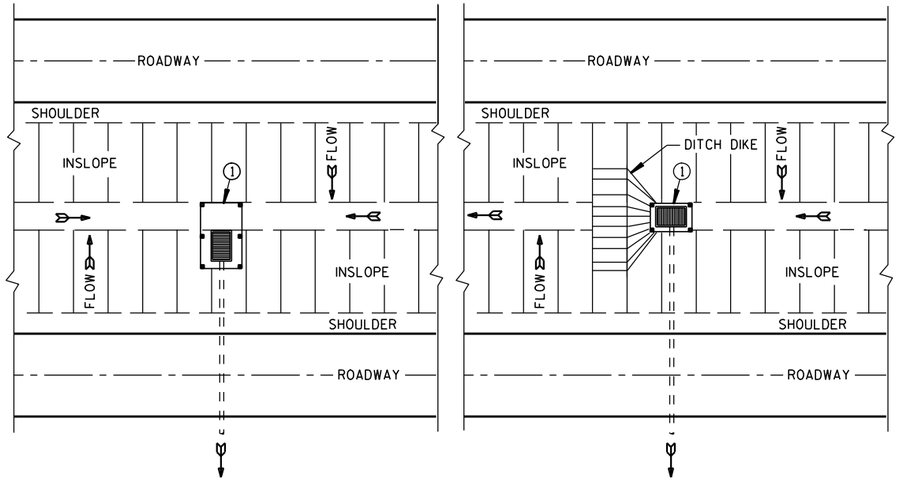
6

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.

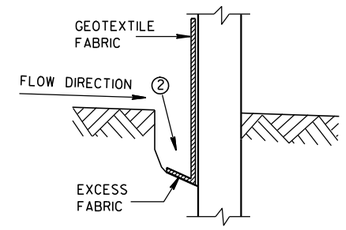
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

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.

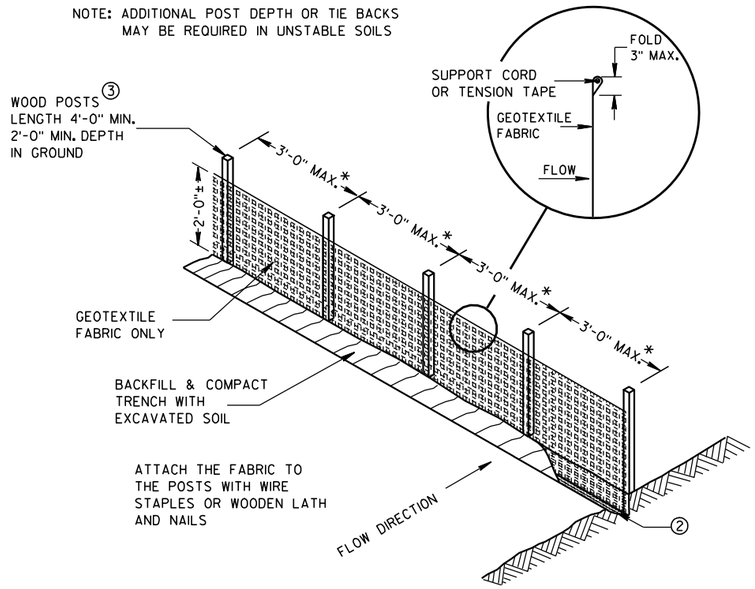
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

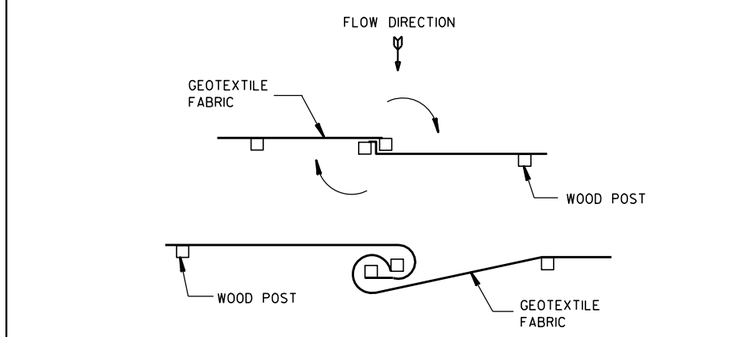
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



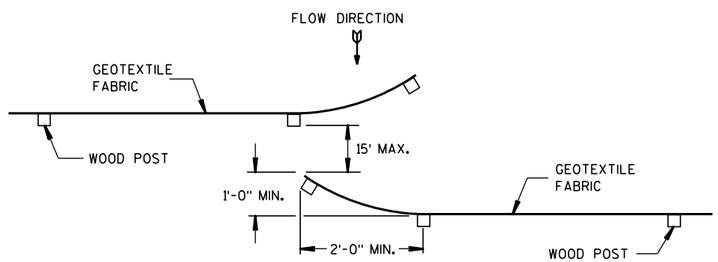
TRENCH DETAIL



SILT FENCE

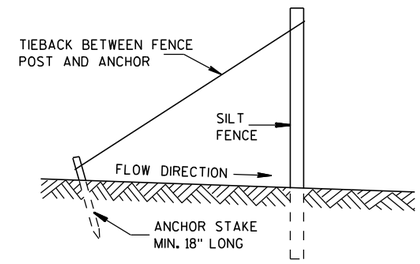


TWIST METHOD



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

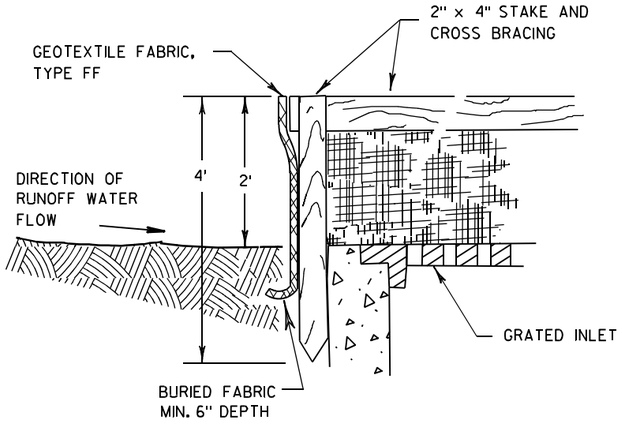
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

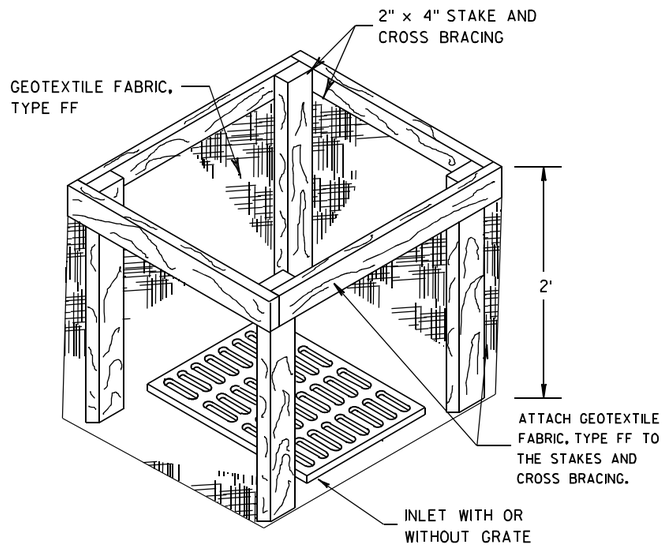
6

S.D.D. 8 E 9-6

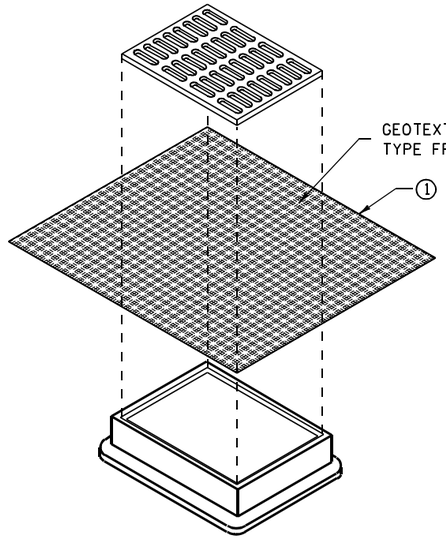
6

S.D.D. 8 E 9-6



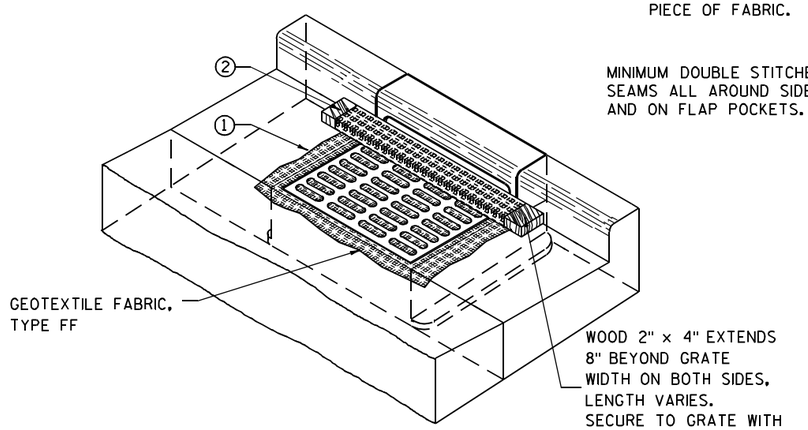


INLET PROTECTION, TYPE A

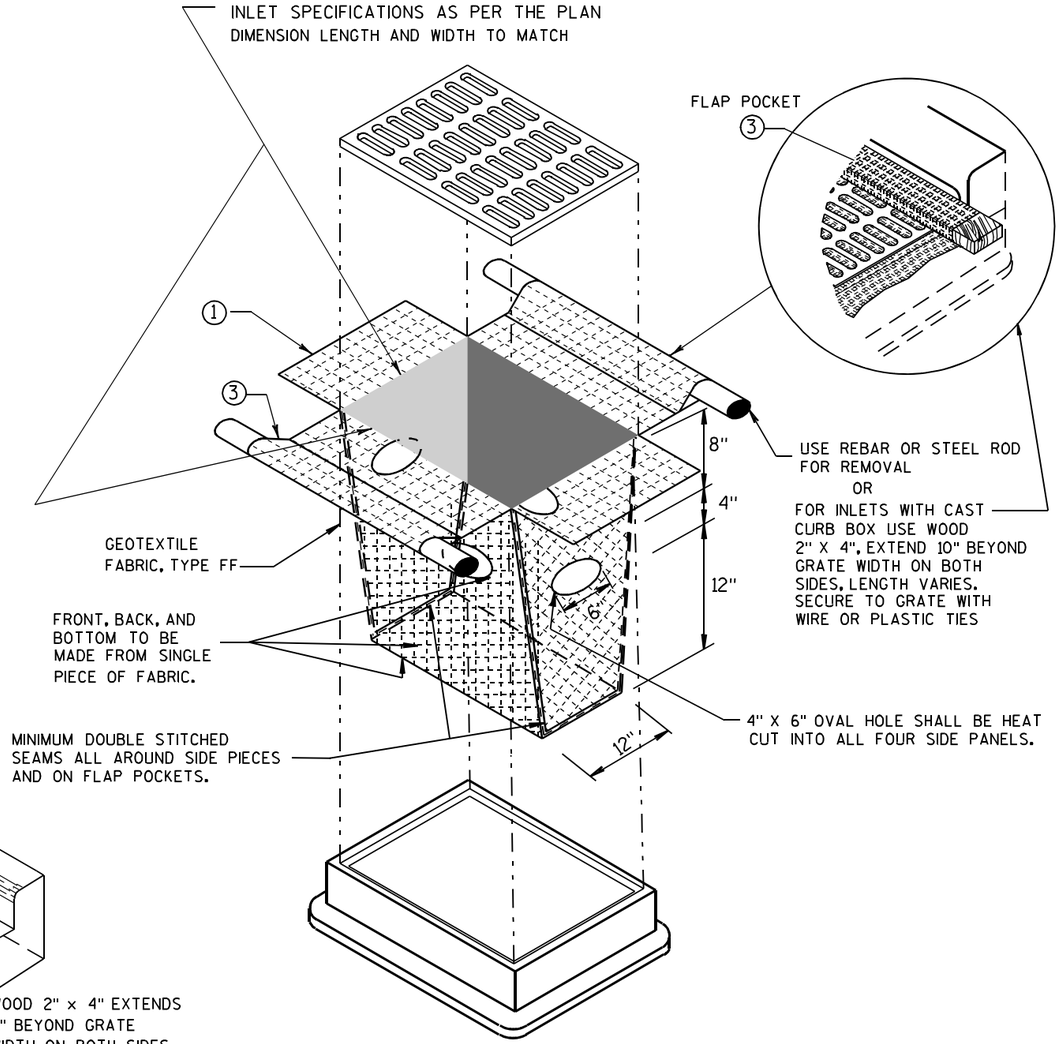


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

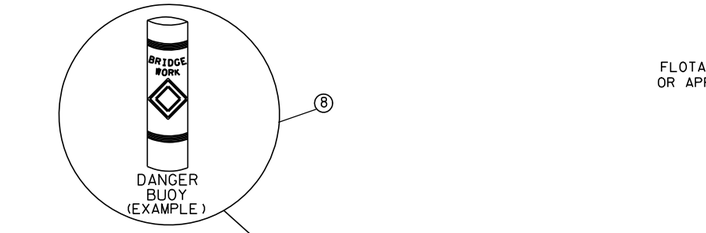
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

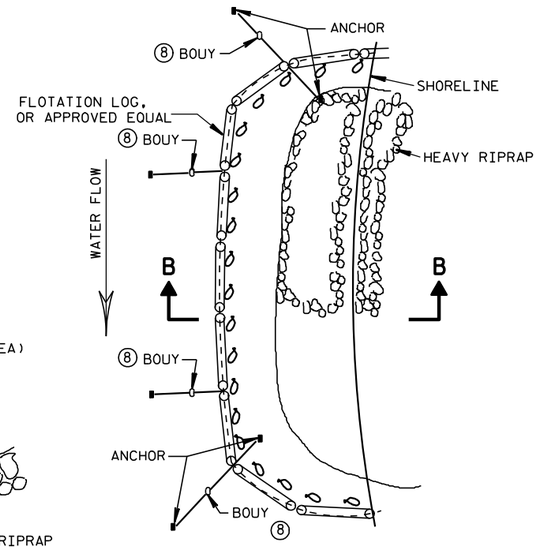
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

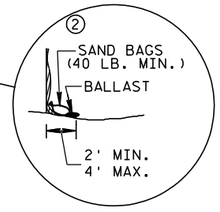
APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2

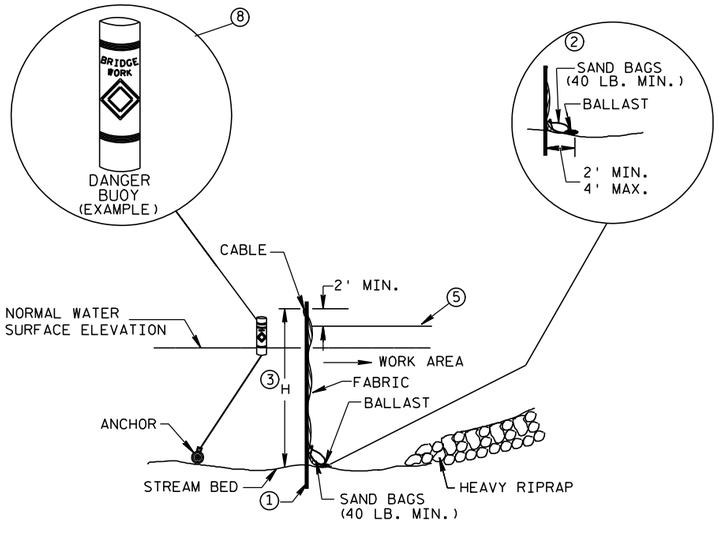


SECTION B-B

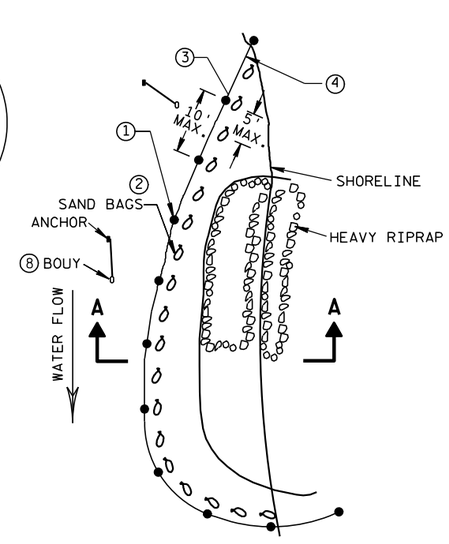




TURBIDITY BARRIER FLOAT ALTERNATIVE
CAUTION - SEE NOTE 6



SECTION A-A



PLAN VIEW

TURBIDITY BARRIER STANDARD POST INSTALLATION

TURBIDITY BARRIER PLACEMENT 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.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.

② SANDBAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.

③ WHEN BARRIER HEIGHT, H, EXCEEDS 8 FT., POST SPACING MAY NEED TO BE DECREASED.

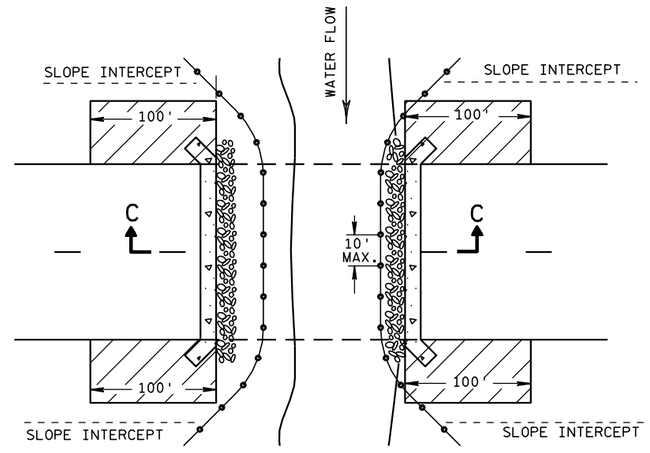
④ IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.

⑤ ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MIMIMUM BARRIER HEIGHT SHALL BE 2'GREATER THAN EITHER THE 02 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WICHEVER IS GREATER.

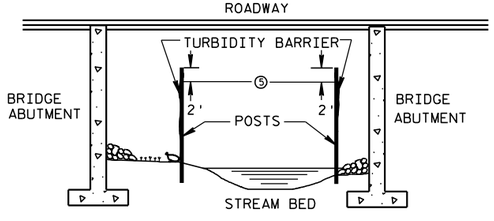
⑥ FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK PREVENTS THE INSTALLATION OF POSTS.

⑦ ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.

⑧ USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



PLAN VIEW



SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

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 11-2

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METAL APRON ENDWALLS

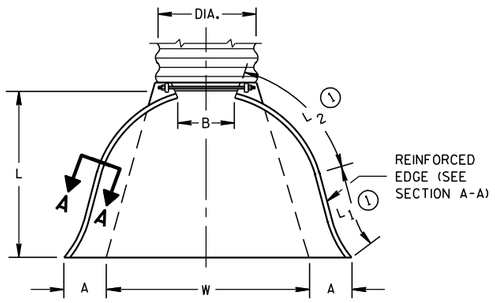
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

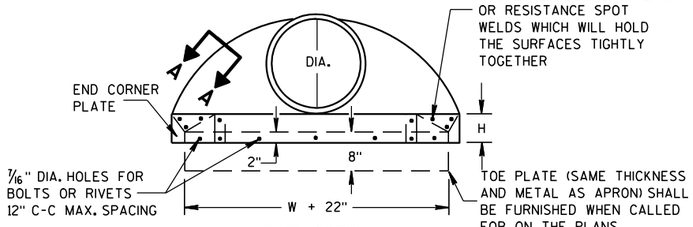
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

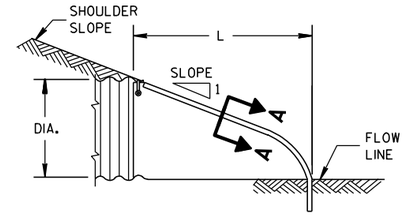
* MINIMUM
** MAXIMUM



PLAN VIEW

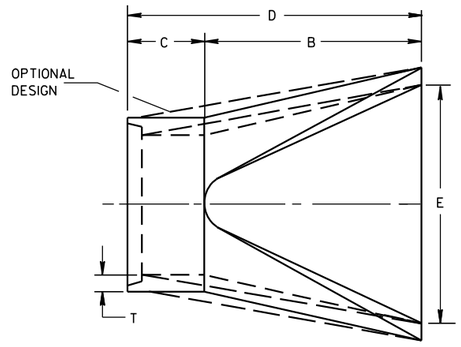


END VIEW

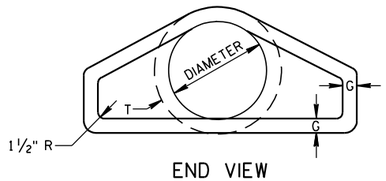


SIDE ELEVATION

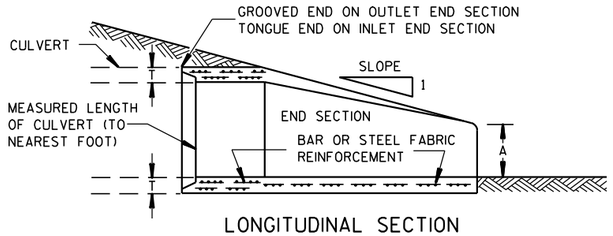
METAL ENDWALLS



PLAN

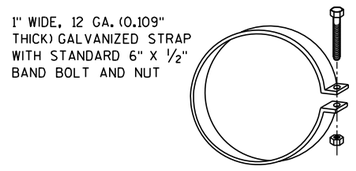


END VIEW



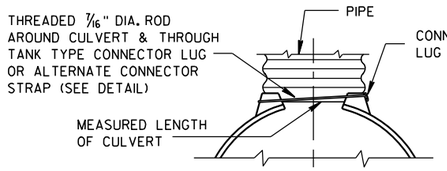
LONGITUDINAL SECTION

CONCRETE ENDWALLS

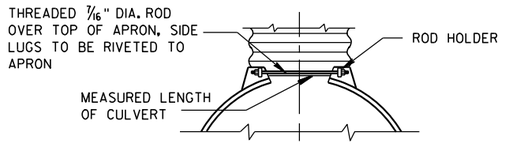


ALTERNATE FOR TYPE 1 CONNECTION

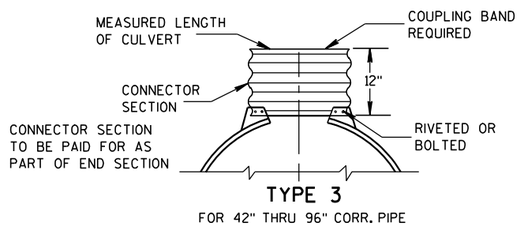
END SECTION CONNECTOR STRAP



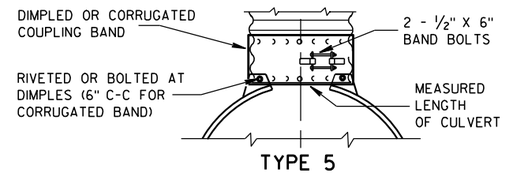
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

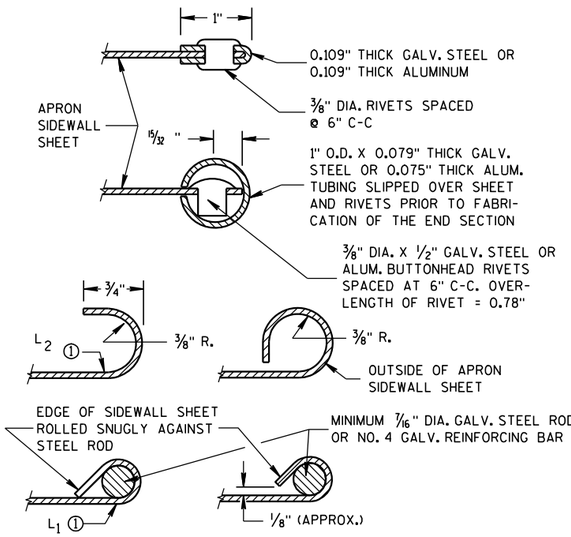
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

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

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

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

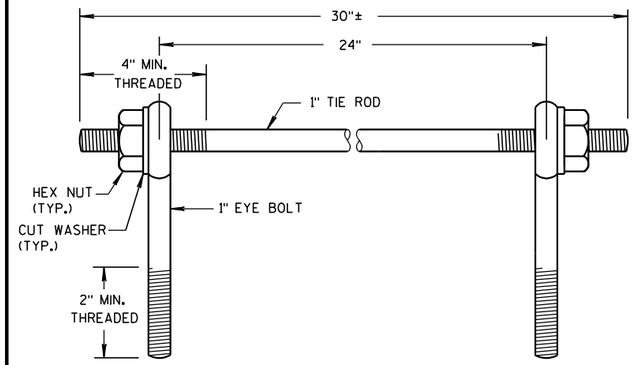
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

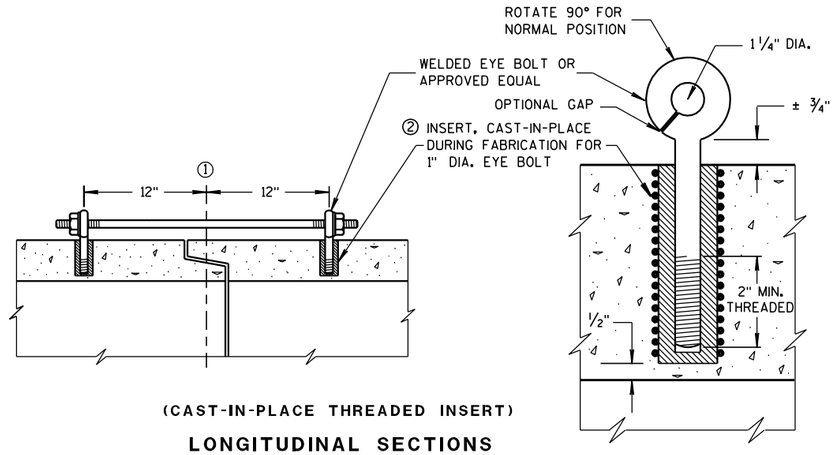
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

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

GENERAL NOTES

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

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

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

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

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

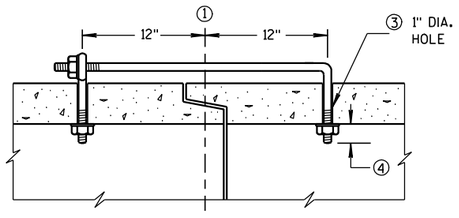
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

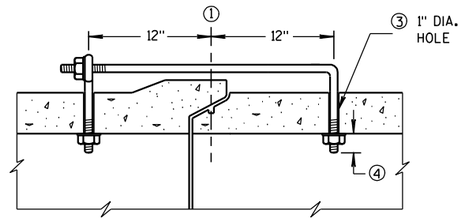
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

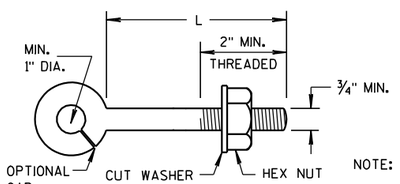


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

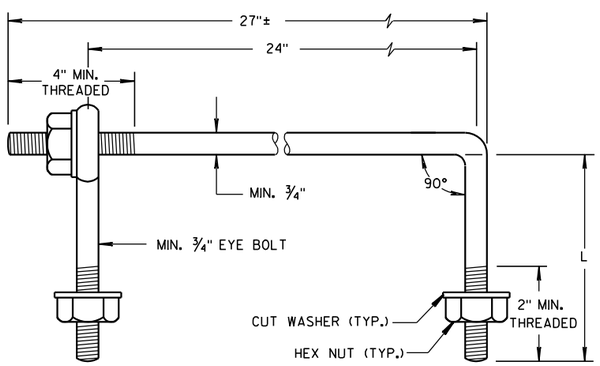
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

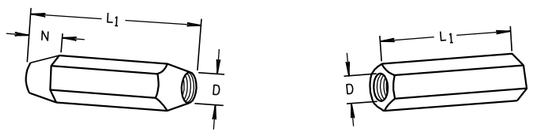
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

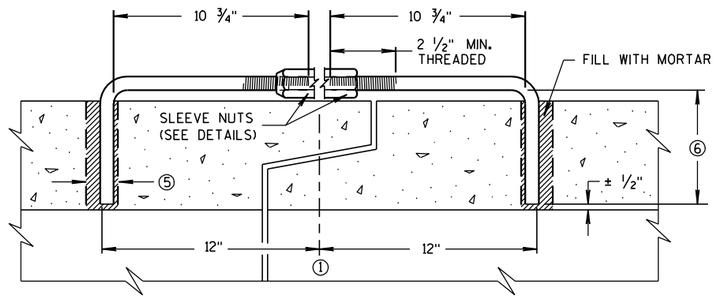
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

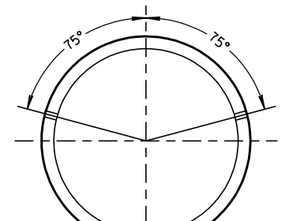
SLEEVE NUTS



LONGITUDINAL SECTION

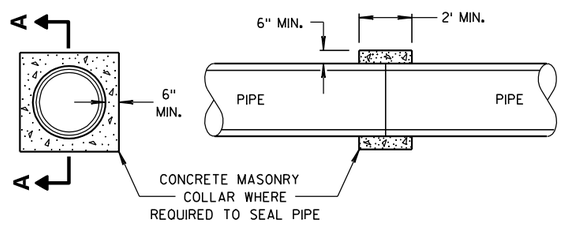
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

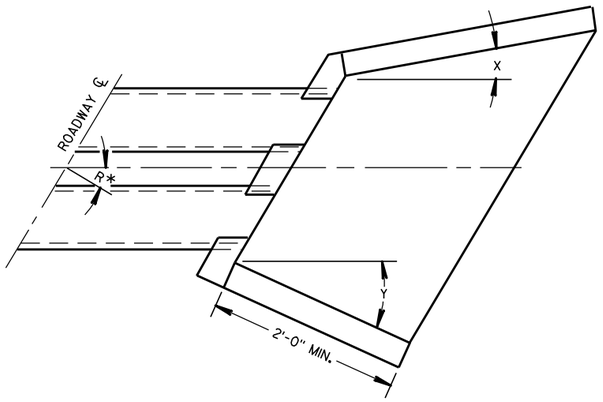
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 8 F 4-7

6

S.D.D. 8 F 4-7



WINGWALL ANGLE DETAILS

INLET			OUTLET		
R*	X	Y	R*	X	Y
0 - 7°	30°	30°	0 - 15°	15°	15°
8 - 22°	25°	"	16 - 45°	10°	"
23 - 37°	20°	"	46 - 75°	5°	"
38 - 52°	15°	"	OVER 75°	0°	"
53 - 67°	10°	"			
68 - 82°	5°	"			
OVER 82°	0°	"			

*R = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

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.

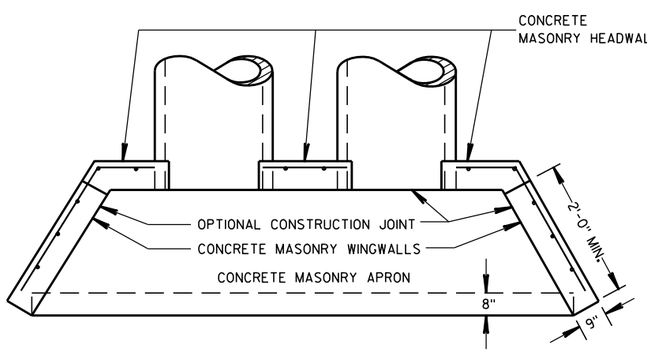
FILL SLOPES FLATTER THAN 2 ½:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

(1) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.

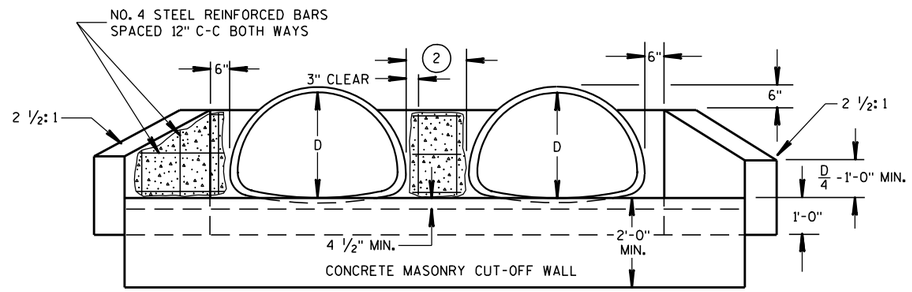
(2) THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

DIAMETER OR SPAN	SPACE
UP TO AND INCLUDING 48"	2'-0"
OVER 48" TO 72"	½ DIA. OR SPAN
OVER 72"	3'-0"



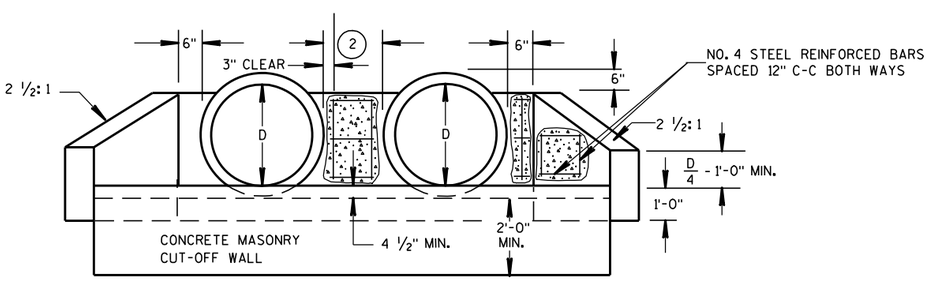
PLAN VIEW

CULVERT PIPE AND PIPE ARCH



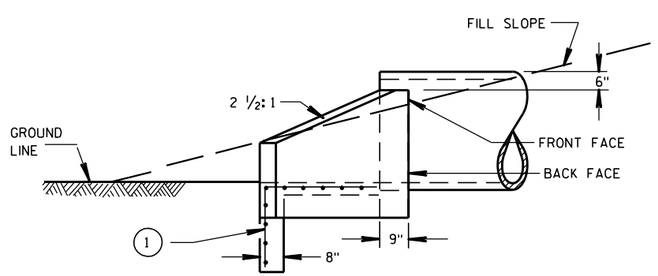
END ELEVATION

PIPE ARCH



END ELEVATION

CULVERT PIPE



SIDE ELEVATION

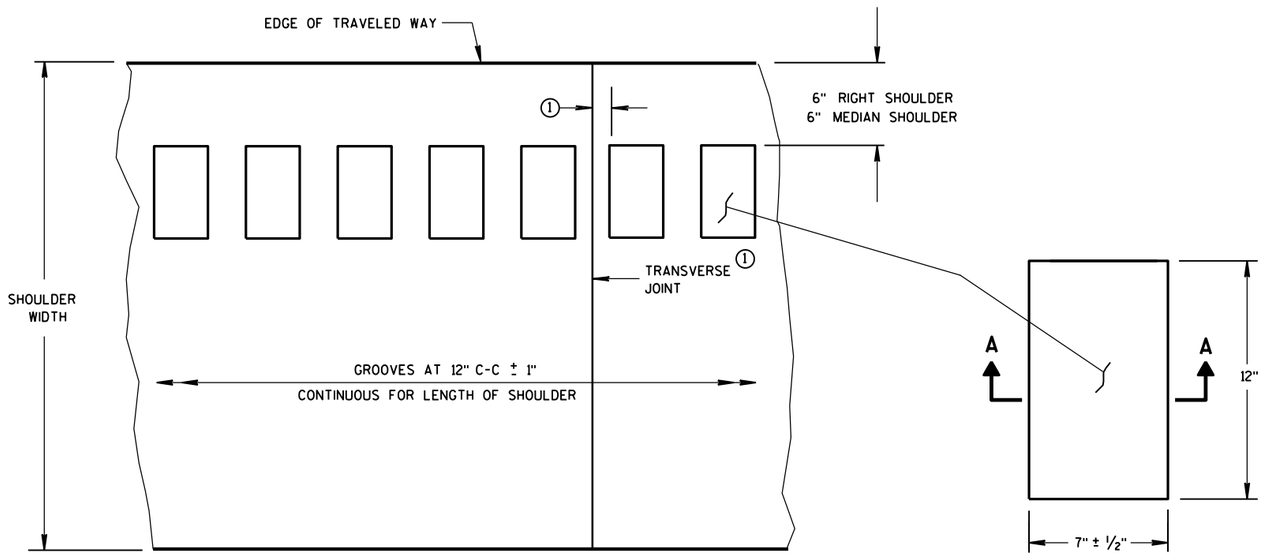
CULVERT PIPE AND PIPE ARCH

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/14/98 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 F 10-1



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

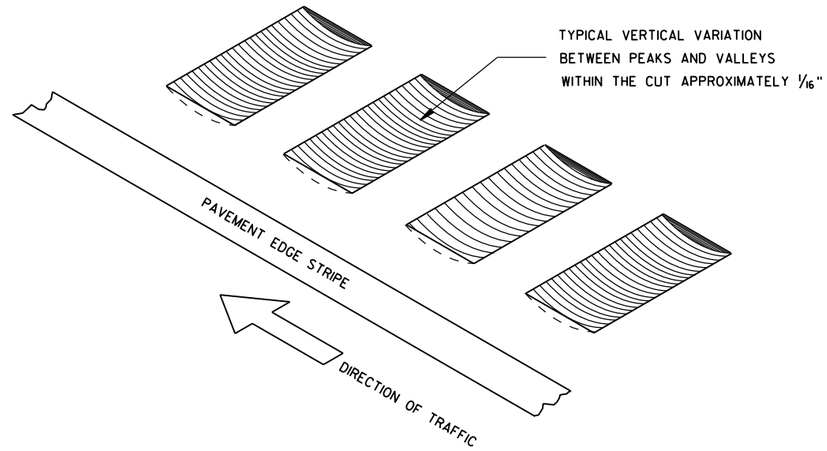
GENERAL NOTES

DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

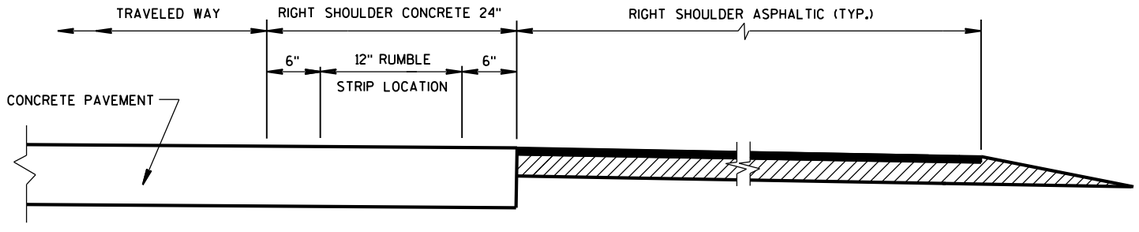
RUMBLE STRIPS ON EXPRESSWAYS

DO NOT INSTALL RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIAL DRIVEWAYS, PRIVATE DRIVEWAYS OR ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, BRIDGE DECKS, BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSING. THE ATTACHED STANDARD DETAIL DRAWING SHOWS THE LOCATION OF THE RUMBLE STRIPS AT INTERCHANGE AREAS.

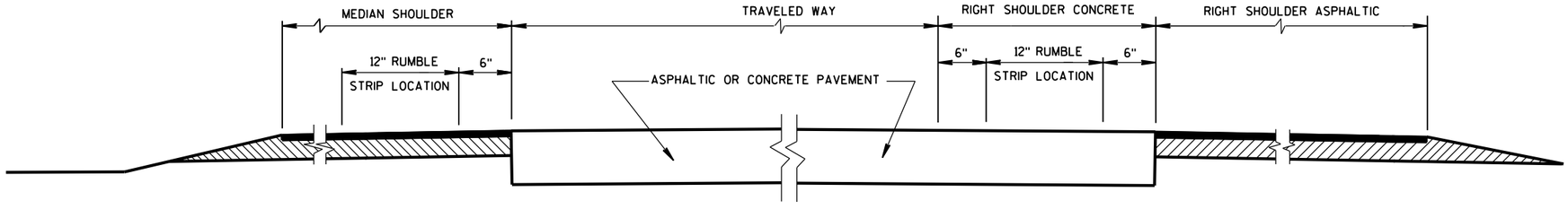
(1) CONCRETE PAVEMENT - RUMBLE STRIPS SHALL BE A MINIMUM OF 6" AWAY FROM TRANSVERSE JOINTS.



ISOMETRIC



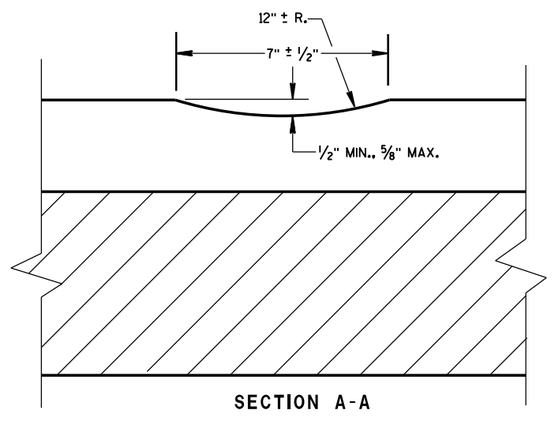
SECTION VIEW
CONCRETE PAVEMENT EXTENDS INTO RIGHT SHOULDER)



SECTION VIEW

TYPICAL LOCATIONS OF SHOULDER RUMBLE STRIPS IN RURAL DIVIDED HIGHWAYS

(ONE ROADWAY IS SHOWN)



SECTION A-A

SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 13 A 5-5a

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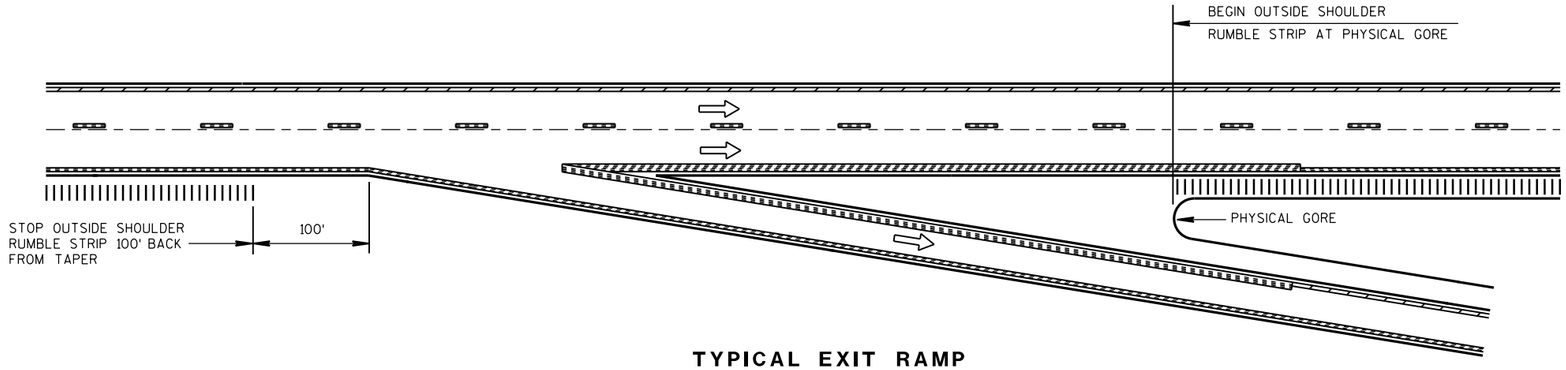
S.D.D. 13 A 5-5a



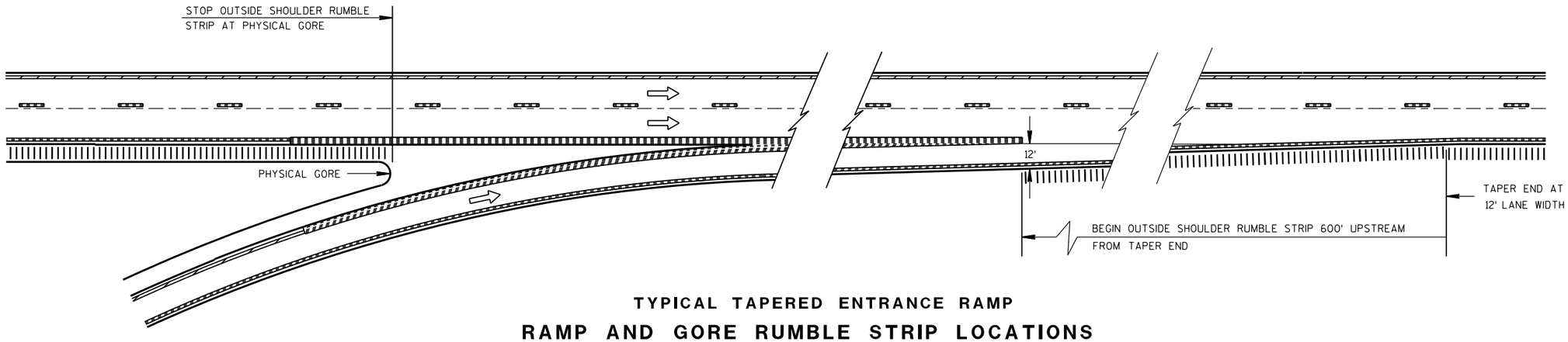
TYPICAL EXIT RAMP

NOTES:

NO RUMBLE STRIP ON EXIT, DIRECTIONAL, OR ENTRANCE RAMPS, EXCEPT NEAR THE ENTRANCE TAPER END AND ALONG THE PARALLEL RAMP AREA AS SHOWN.

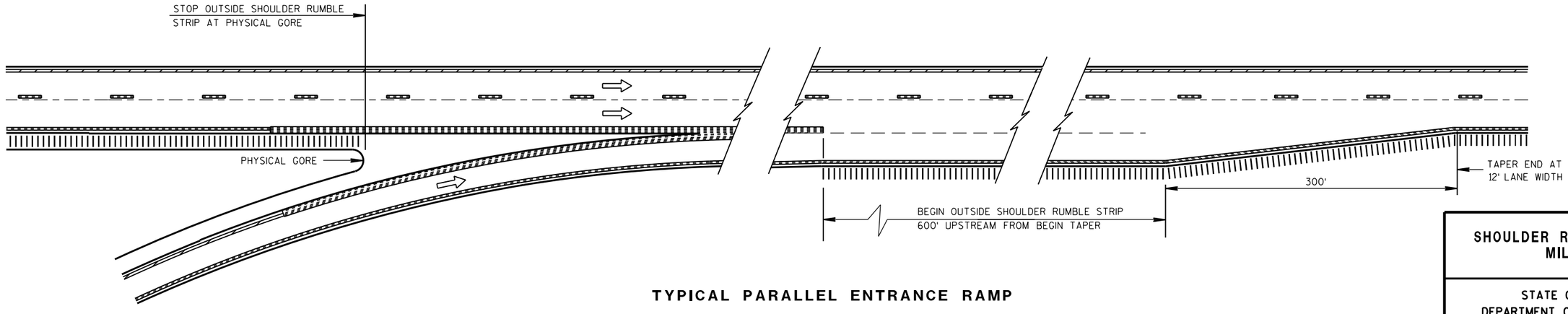
PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TYPICAL TAPERED ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS



TYPICAL PARALLEL ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS

SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/17/2012
DATE

/S/ Jerry H. Zoga
ROADWAY STANDARDS ENGINEER

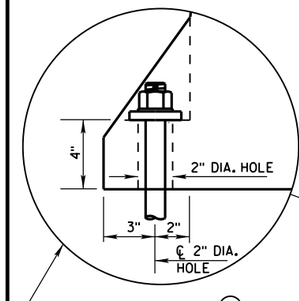
FHWA

6

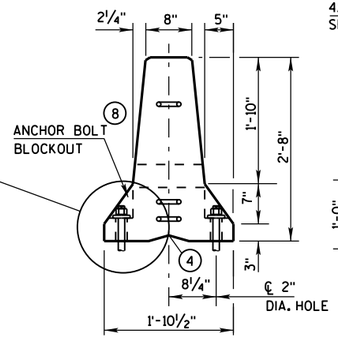
S.D.D. 13 A 5-5b

6

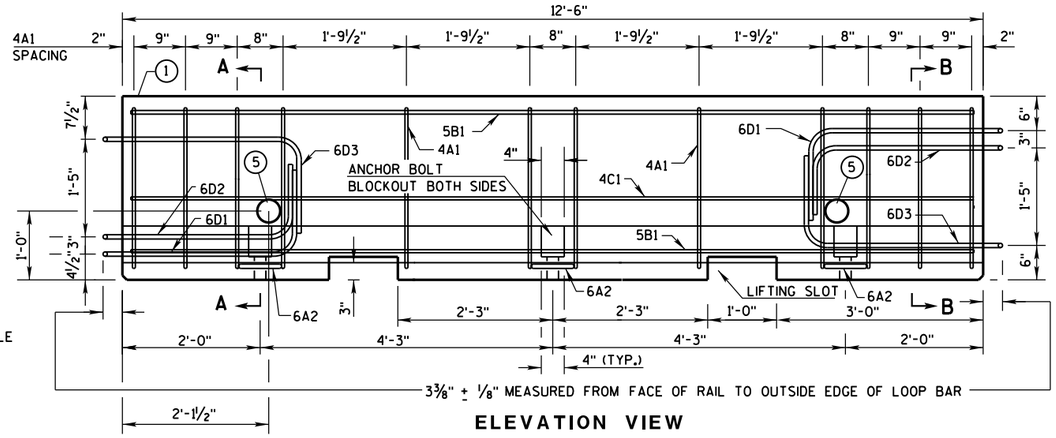
S.D.D. 13 A 5-5b



ANCHOR ON TRAFFIC SIDE (8) ONLY WHEN REQUIRED (SEE SHEET D FOR ADDITIONAL ANCHOR DETAIL)

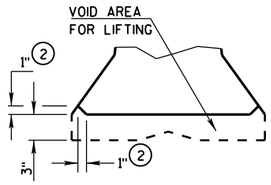


END VIEW

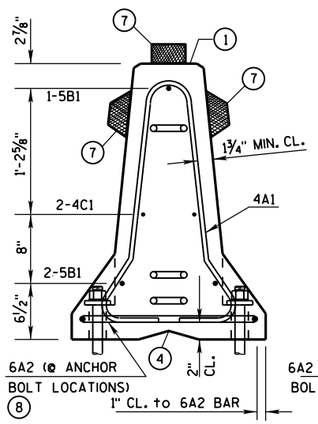


3⅜" ± ⅛" MEASURED FROM FACE OF RAIL TO OUTSIDE EDGE OF LOOP BAR

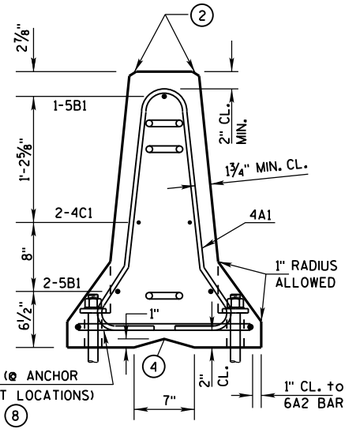
ELEVATION VIEW



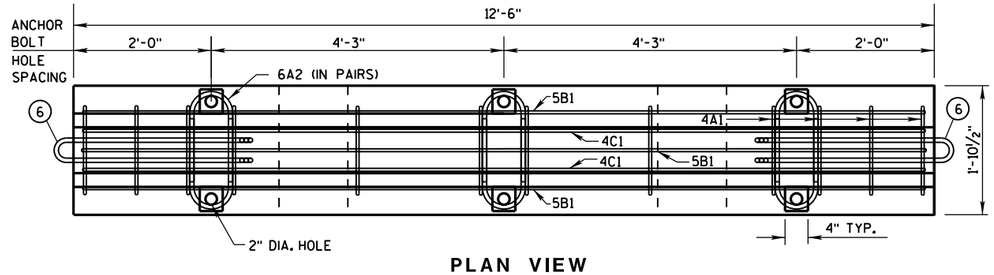
DETAIL "B" LIFTING SLOT DETAIL



SECTION A-A (STIRRUP PLACEMENT)

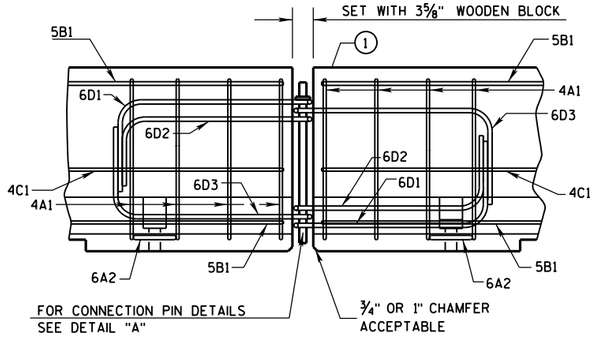


SECTION B-B (STIRRUP PLACEMENT)

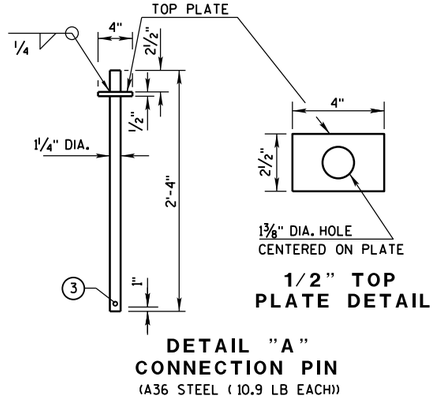


PLAN VIEW

DETAILS OF BARRIER SECTION

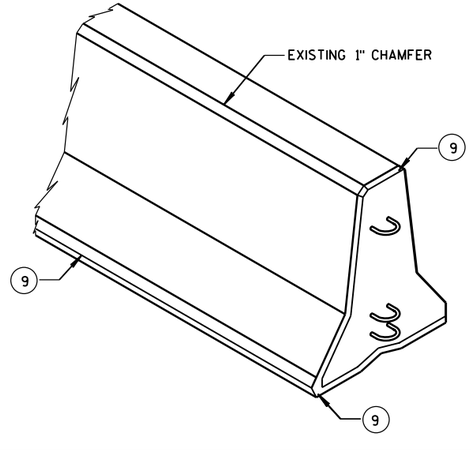


DETAILS OF BARRIER CONNECTION



1/2" TOP PLATE DETAIL

DETAIL "A" CONNECTION PIN (A36 STEEL (10.9 LB EACH))



GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-14(a) THRU 14B7-14(h).

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRCAST, 12'-6" (CBTP12.5) WITH OTHER TEMPORARY CONCRETE BARRIERS.

USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER TAPER SECTION.

LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE ¾" SMOOTH STEEL BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI, A TENSILE STRENGTH OF NOT LESS THAN 1.25 TIMES THE YIELD STRENGTH BUT A MINIMUM OF 80 KSI, A MINIMUM 14% ELONGATION IN 8 INCHES AND PASSING A 180 DEGREE BEND TEST USING A 3-½" PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN ⅛" OF THE PLAN DIMENSION.

CONSTRUCT LIFTING SLOTS AS SPECIFIED ON THE PLANS TO FACILITATE THE DRAINAGE OF WATER AFTER INSTALLATION.

PLACE BARRIER ON A PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.

INSTALL MECHANICAL OR ADHESIVE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.

(1) MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
- a. TYPE: WI CBTP
- b. MANUFACTURER
- c. DATE MANUFACTURED (MONTH AND YEAR)

(2) 1" CHAMFER TO PREVENT SPALLING.

(3) A ⅜" HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT NOT REQUIRED..

(4) "V" NOTCH IS OPTIONAL.

(5) THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).

(6) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

(7) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURES INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED TO THE RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART. PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAN 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

(8) SEE SHEET D FOR ANCHORING CRITERIA.

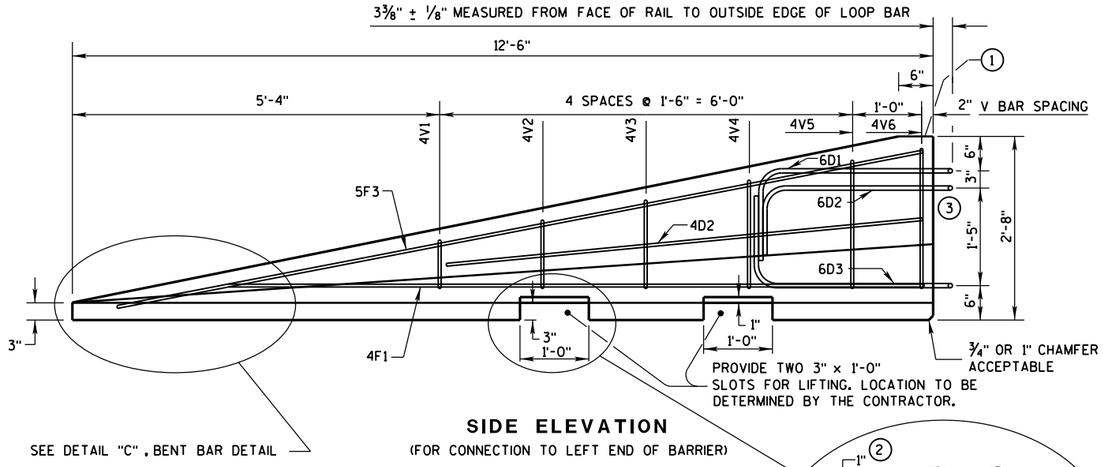
(9) 1" CHAMFER OPTIONAL.

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

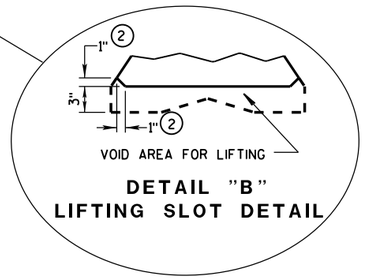
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

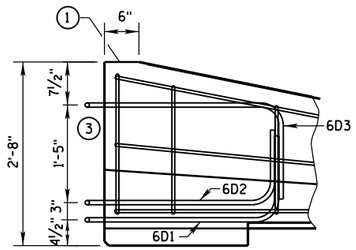
S.D.D. 14 B 7-14a



SIDE ELEVATION
(FOR CONNECTION TO LEFT END OF BARRIER)



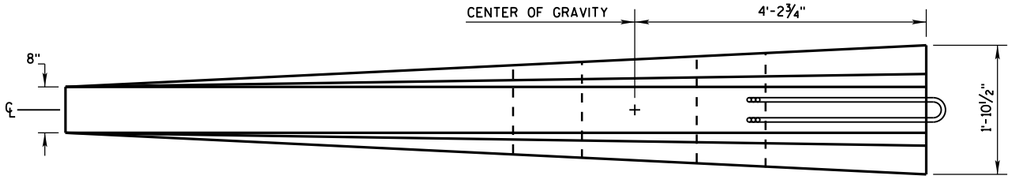
DETAIL "B"
LIFTING SLOT DETAIL



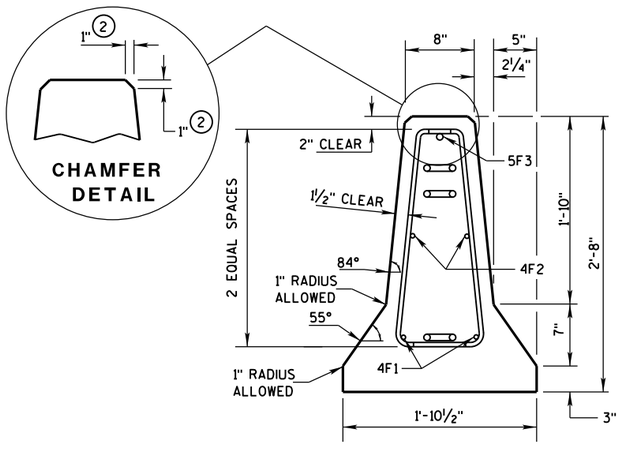
SIDE ELEVATION
LOOP BAR ASSEMBLY INVERTED
FOR OPPOSITE END.
(FOR CONNECTION TO RIGHT END OF BARRIER)

GENERAL NOTES

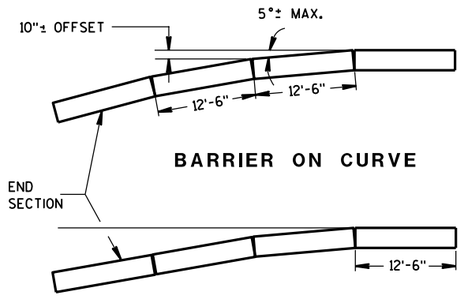
1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.



PLAN VIEW



END SECTION **FRONT ELEVATION**



BARRIER ON CURVE

FLARE AT BARRIER END

POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1

DETAILS OF BARRIER TAPER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

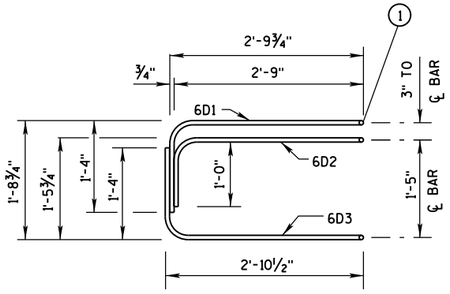
6

S.D.D. 14 B 7-14b

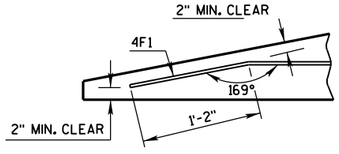
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

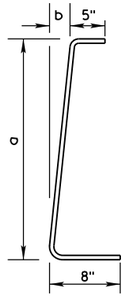
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



ELEVATION
LOOP BAR ASSEMBLY



DETAIL "C"
BENT BAR DETAIL



BAR	a	b
V1	10"	1"
V2	1'-1"	1¼"
V3	1'-5"	1⅝"
V4	1'-8"	1⅞"
V5	2'-0½"	2⅜"
V6	2'-3"	2¾"

4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

TAPER BARRIER SECTION

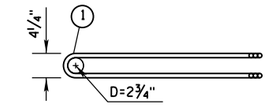
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

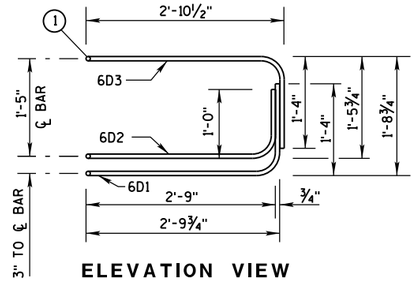
BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

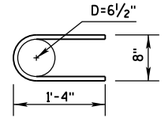
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"



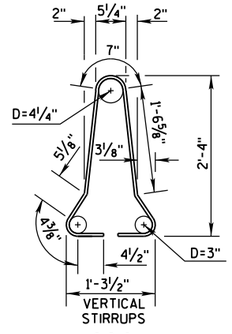
PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)



ELEVATION VIEW



6A2



4A1

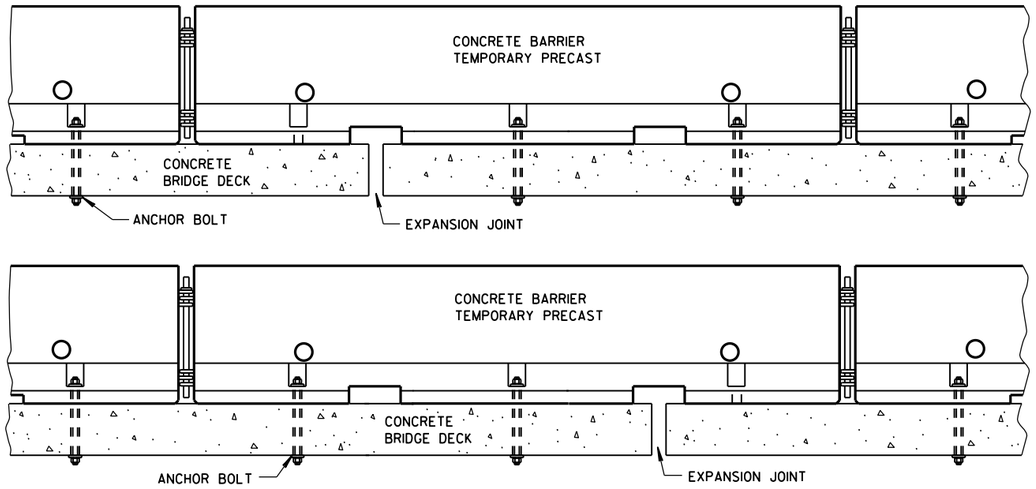
BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

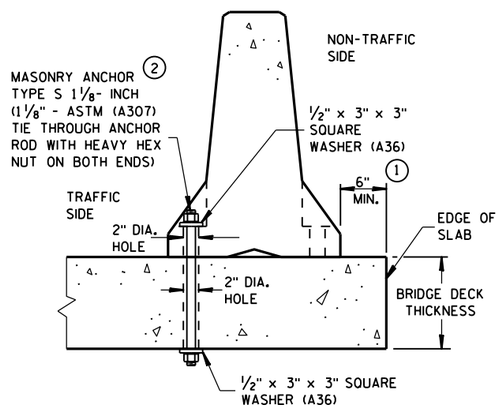
6

S.D.D. 14 B 7-14c



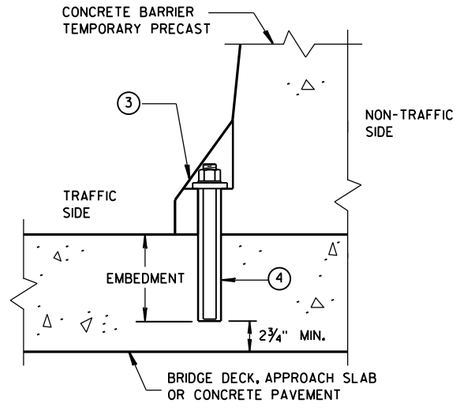
TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.)



THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)



REMOVABLE ADHESIVE BONDED ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT ②

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

GENERAL NOTES

① CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" SHALL BE ANCHORED IF:
THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 4 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 45 MPH OR GREATER, OR

THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 2 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 40 MPH OR LESS.

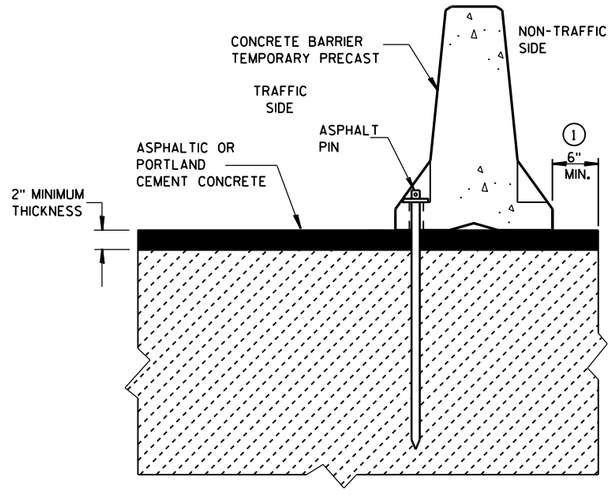
② ANCHORING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST.

WITH THE APPROVAL OF THE ENGINEER, REMOVABLE ADHESIVE BONDED ANCHOR BOLT INSTALLATION MAY BE USED IN LIEU OF THROUGH BOLTED ANCHOR INSTALLATION. THE ADHESIVE BONDED ANCHOR BOLT MUST BE REMOVABLE. USE ASTM (A307) MASONRY ANCHORS TYPE S 1⅛-INCH, EMBEDDED TO A DEPTH SUFFICIENT TO DEVELOP THE ULTIMATE CAPACITY OF THE ANCHOR BOLT AND PROVIDE DOCUMENTATION TO CONFIRM THIS.

UPON REMOVAL OR RELOCATION OF THE BARRIER UNITS, REMOVE ALL ANCHOR BOLTS AND COMPLETELY FILL IN THE REMAINING HOLES IN CONCRETE BRIDGE DECKS, CONCRETE APPROACH SLABS AND CONCRETE PAVEMENTS THAT ARE TO REMAIN, WITH A NON-SHRINK COMMERICAL GROUT OR MATERIAL IDENTIFIED ON THE CURRENT WISDOT APPROVED PRODUCTS LIST.

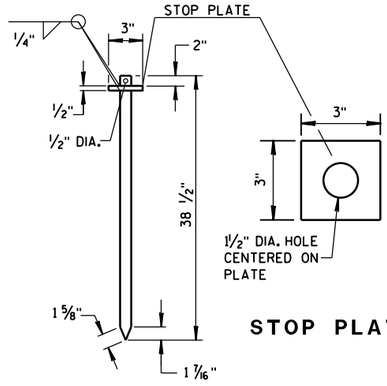
③ 1⅛" DIAMENTER A307 THREADED ROD, ½" X 3" X 3" SQUARE PLATE WASHER WITH ASTM A36 STEEL, ASTM A563A HEAVY HEX NUT.

④ ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 5¼" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.



STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

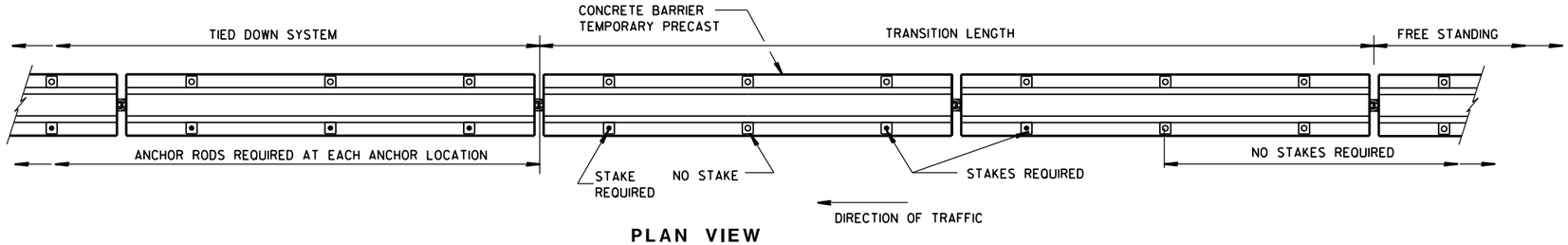
(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



STOP PLATE

ASPHALT PIN

(ASTM A36 STEEL)



PLAN VIEW

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

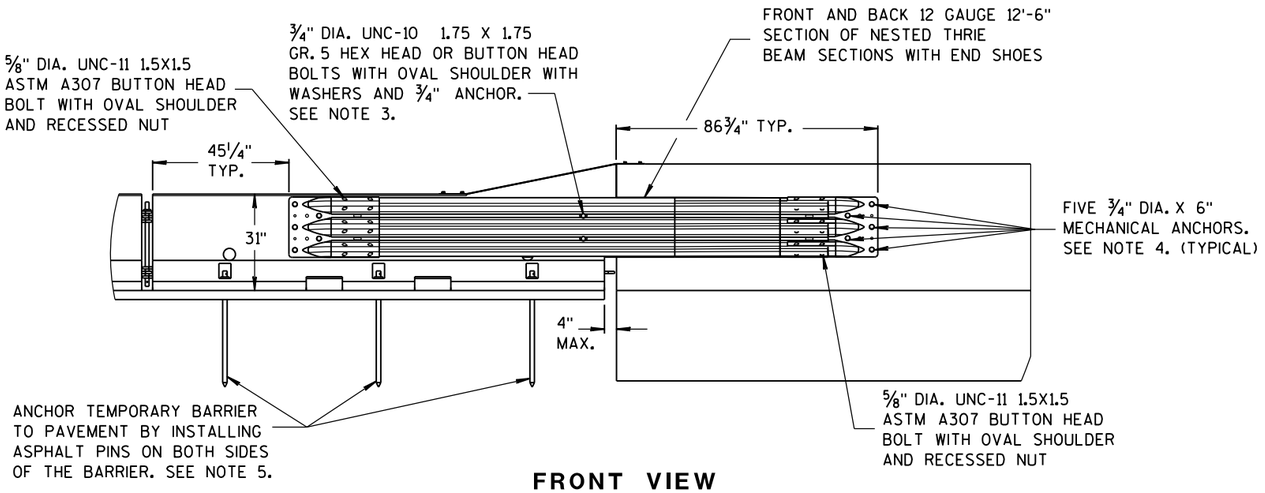
(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

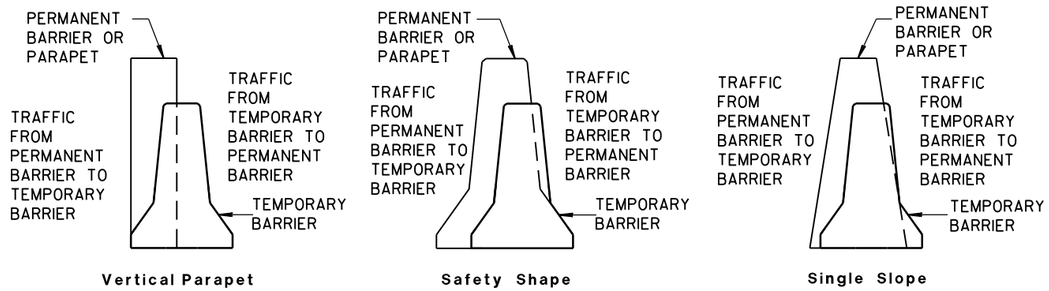
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 7-14d



FRONT VIEW

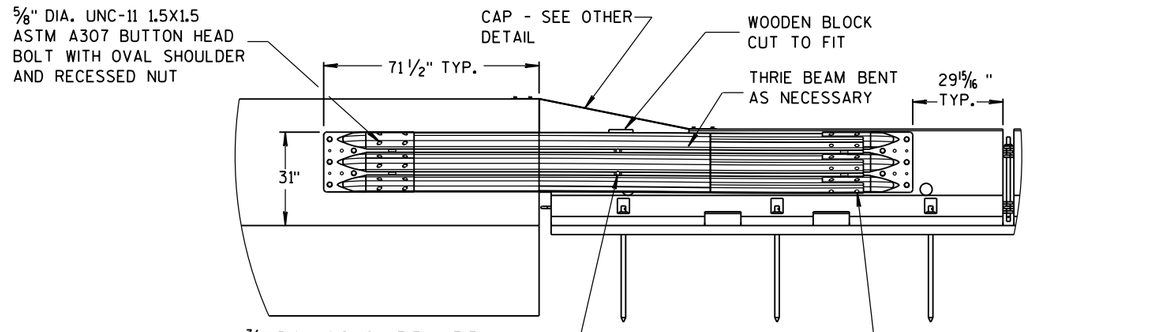


TEMPORARY BARRIER PLACEMENT FOR BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

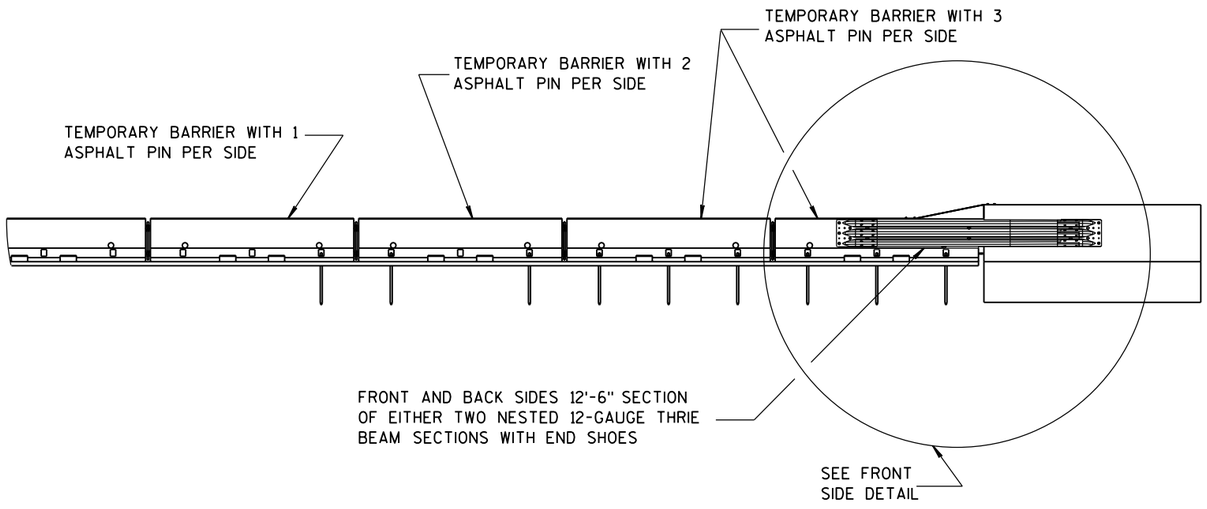
NOTES

NESTED THRIE BEAM IS REQUIRED ON BOTH SIDES OF THE TEMPORARY BARRIER FOR ALL INSTALLATIONS.

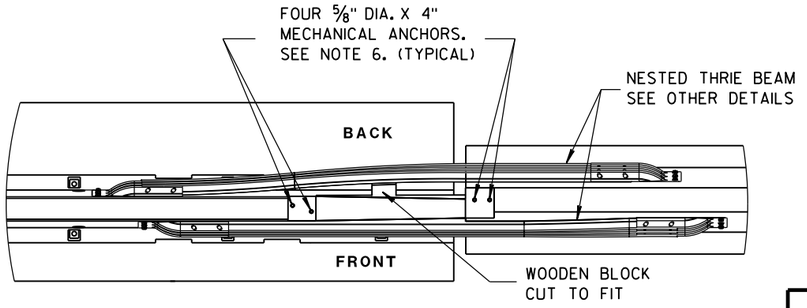
1. CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF PERMANENT BARRIER OR PARAPET.
2. THRIE BEAM PIECES ARE OFFSET 15 1/4" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.
3. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS.
4. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS.
5. MAY BE USED ON CONCRETE OR ASPHALT PAVEMENTS. ASPHALT OPTION SHOWN. FOR CONCRETE OPTION SEE OTHER DETAILS.
6. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.



BACK VIEW



FRONT VIEW



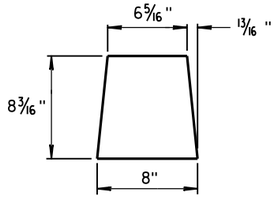
PLAN VIEW

BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

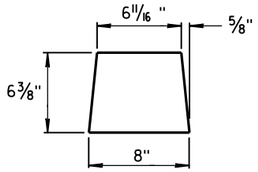
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6
S.D.D. 14 B 7-14e



GUSSET 1



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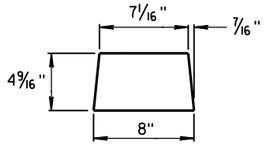
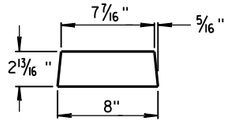
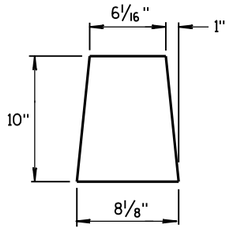


GUSSET 3

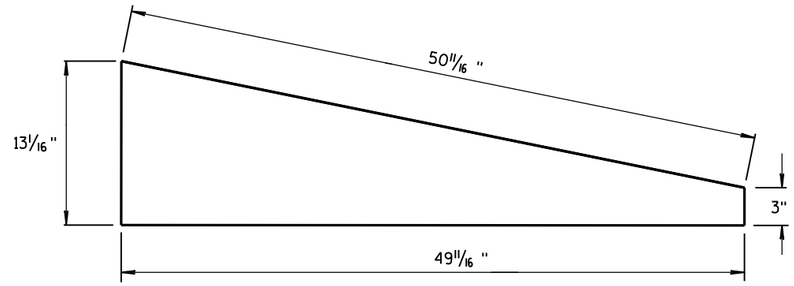


GUSSET 4

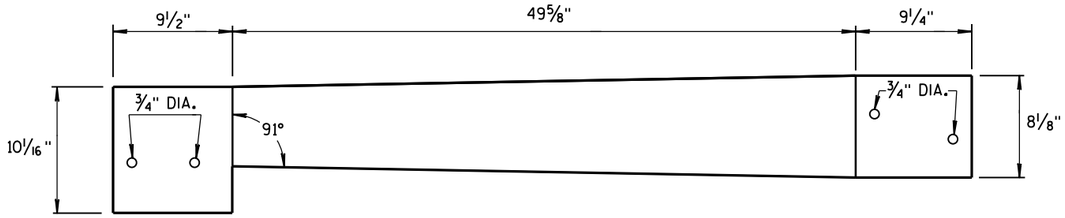
GUSSETS

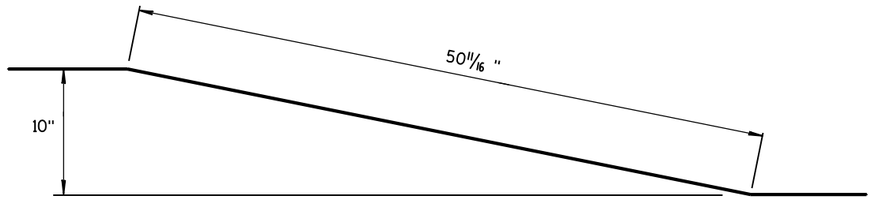


END PLATE



SIDE PLATE

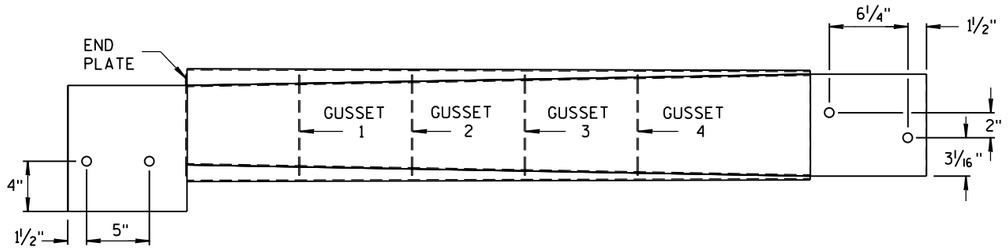


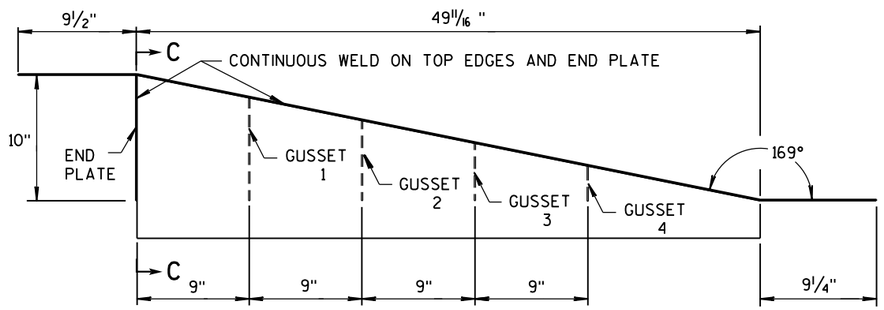


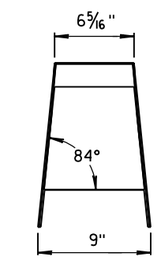
TOP PLATE

SIDE, TOP AND END PLATES FOR CAP FROM TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.







SECTION C-C

NOTES

1. FOUR GUSSETS AND END PLATE ARE STITCH WELDED ON THREE SIDES.
2. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE, AND GUSSETS.

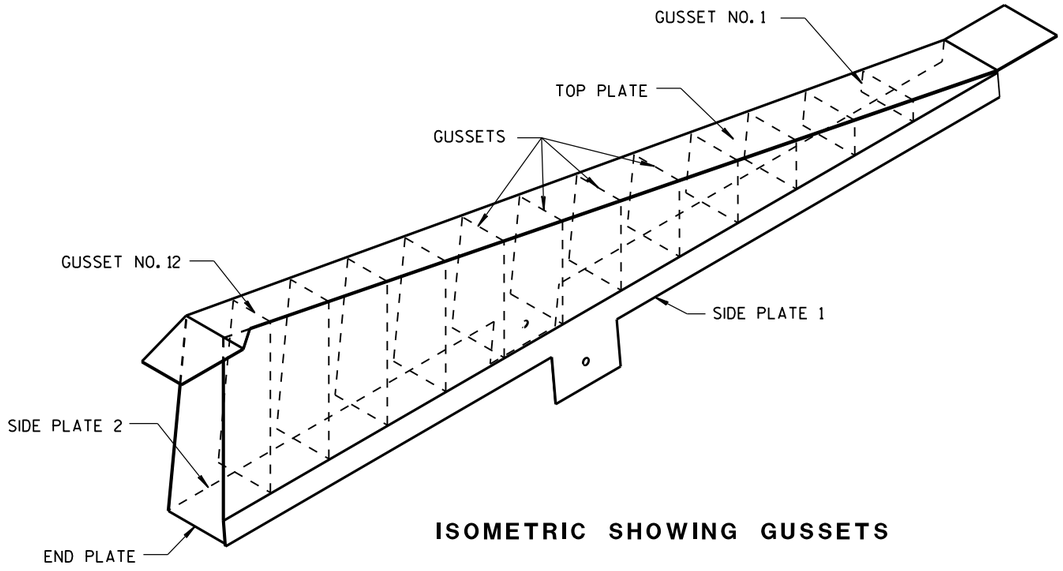
CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

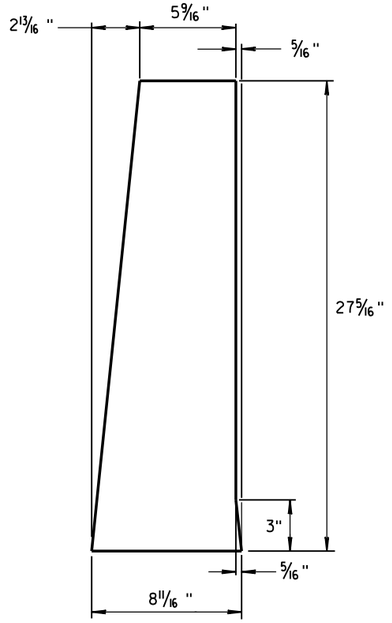
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 7-14f

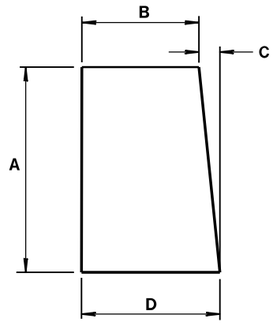


ISOMETRIC SHOWING GUSSETS



END PLATE

1/8" STEEL PLATE



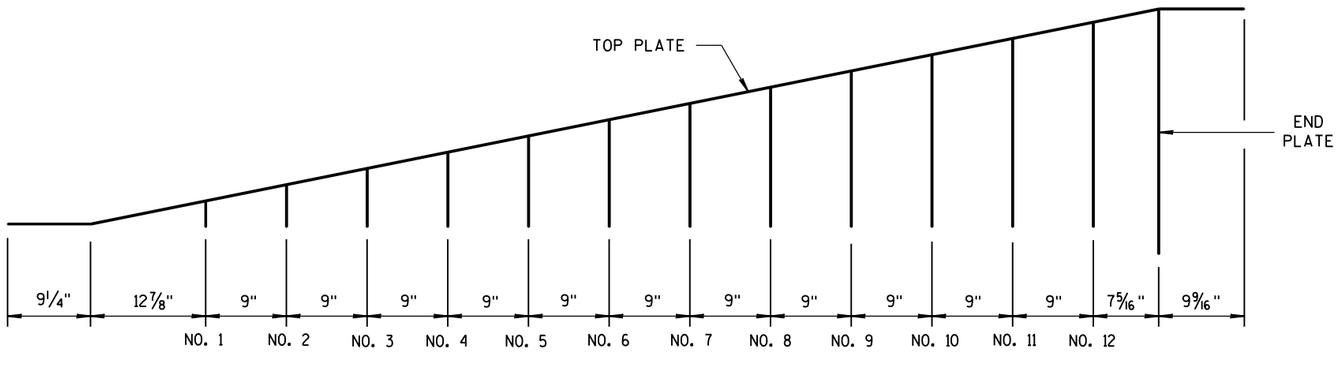
GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
1	2 7/8"	7 3/4"	1/4"	8
2	4 11/16 "	7 9/16 "	1/2"	8
3	6 1/2"	7 3/8"	11/16 "	8 1/16 "
4	8 5/16 "	7 3/16 "	7/8"	8 1/16 "
5	10 1/8"	7"	1 1/16 "	8 1/16 "
6	11 15/16 "	6 13/16 "	1 1/4"	8 1/16 "
7	13 3/4"	6 5/8"	1 7/16 "	8 1/16 "
8	15 9/16 "	6 7/16 "	1 9/16 "	8 1/16 "
9	17 3/8"	6 1/4"	1 13/16 "	8 1/16 "
10	19 3/16 "	6 1/16 "	1 15/16 "	8 1/16 "
11	21"	5 7/8"	2 3/16 "	8 1/16 "
12	22 13/16 "	5 11/16 "	2 5/16 "	8 1/16 "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.



GUSSET LOCATION

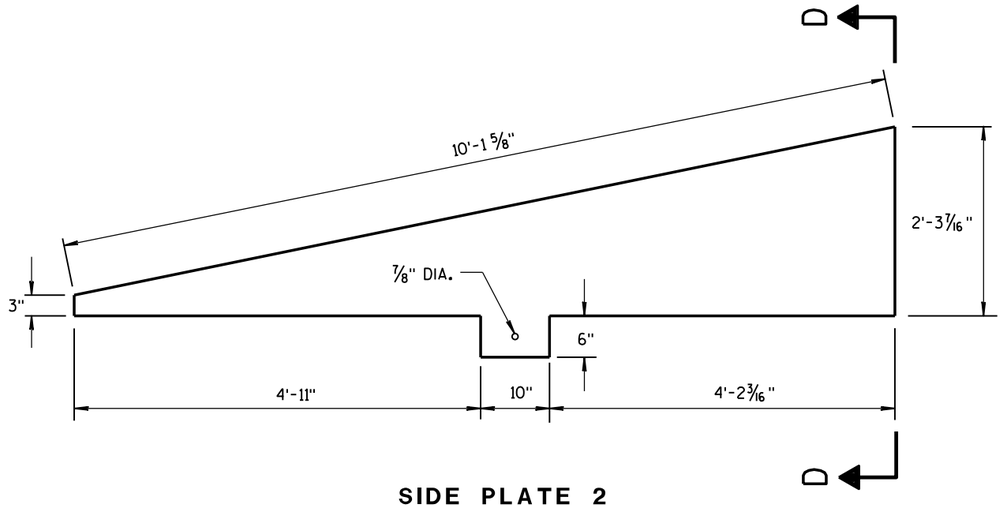
CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

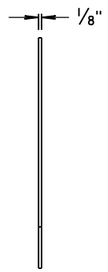
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

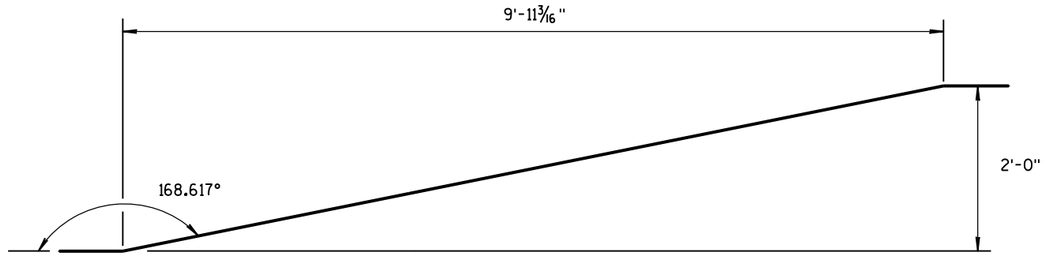
S.D.D. 14 B 7-14g



SIDE PLATE 2

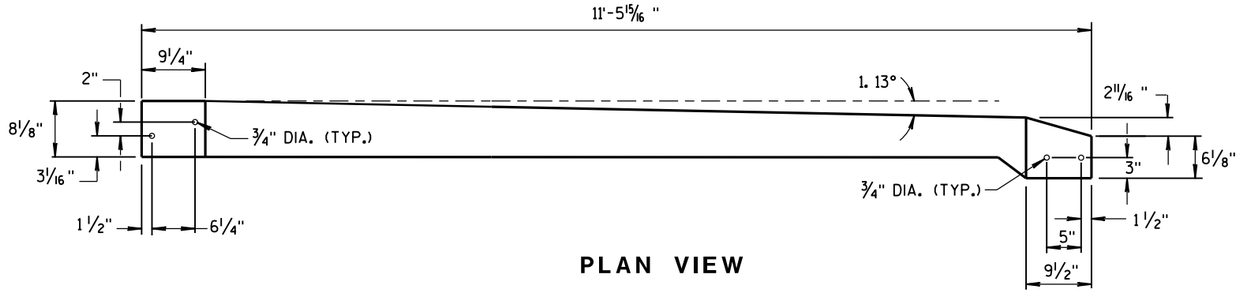


END VIEW



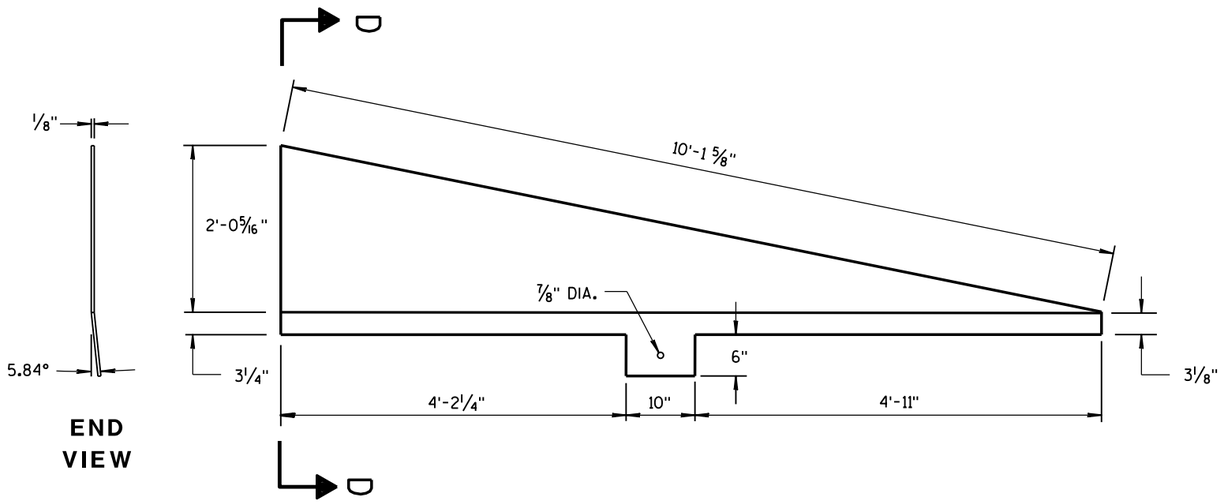
SIDE VIEW

TOP PLATE



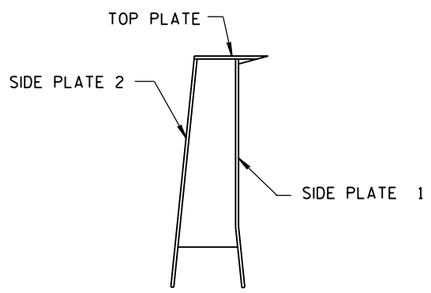
PLAN VIEW

TOP PLATE



END VIEW

SIDE PLATE 1



SECTION D-D

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014 — DATE
/S/ Jerry H. Zoaa — ROADWAY STANDARD D ENGINEER
FHWA

6

S.D.D. 14 B 7-14h

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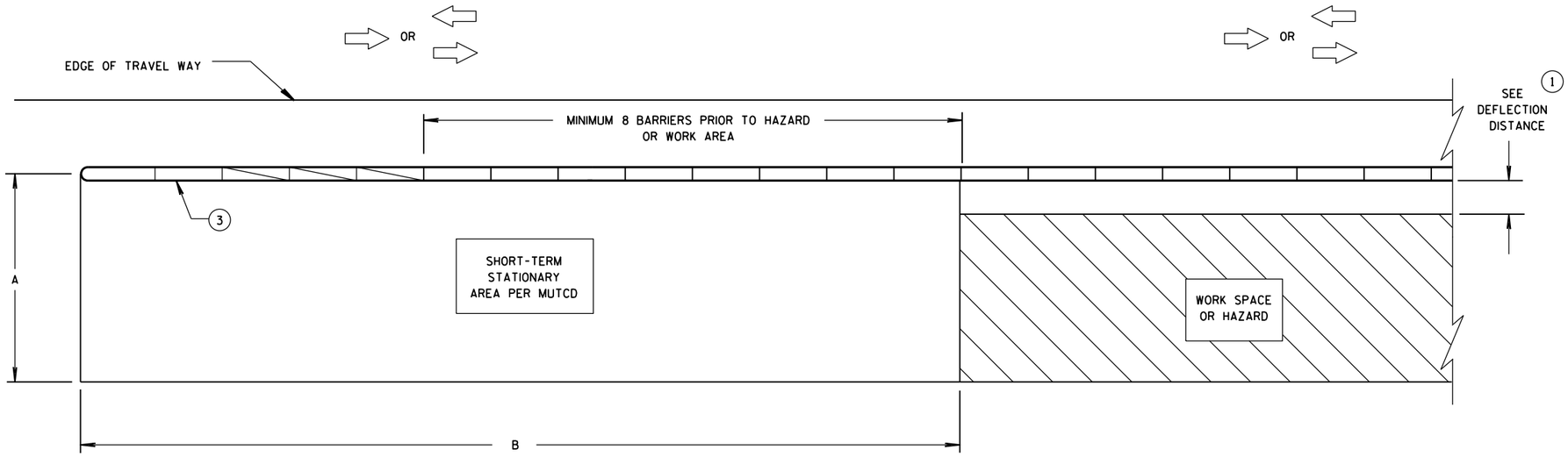
S.D.D. 14 B 7-14h



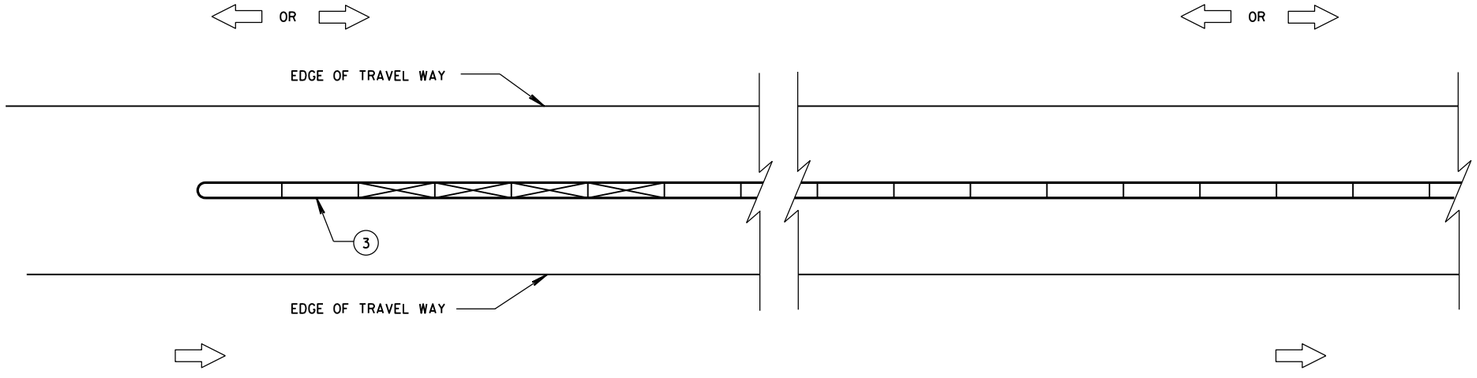
CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER

DIMENSION A TABLE (2)

FACILITY	POSTED SPEED MPH	DIMENSION A	
		MIN. FT	MAX. FT
FREEWAY/EXPRESSWAY	ALL	15	20
NON-FREEWAY/EXPRESSWAY	GREATER THAN OR EQUAL TO 45	10	15
NON-FREEWAY/EXPRESSWAY	LESS THAN 45	8	10
AADT LESS THAN 1,500	ALL	8	10

DIMENSION B TABLE (2)

POSTED SPEEDS MPH	DIMENSION B FT
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

GENERAL NOTES

SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

DETAILS PROVIDE A GENERAL LAYOUT OF TEMPORARY CONCRETE BARRIER, CRASH CUSHIONS, SAND BARREL ARRAYS AND TIE DOWN TRANSITIONS. DETAILS PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

ADDITIONAL TEMPORARY BARRIER MAY BE REQUIRED TO PROTECT TRAVELING PUBLIC FROM HAZARDS, CONTRACTOR'S OPERATIONS OR TO CONTROL TRAFFIC.

TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

(1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.

(2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

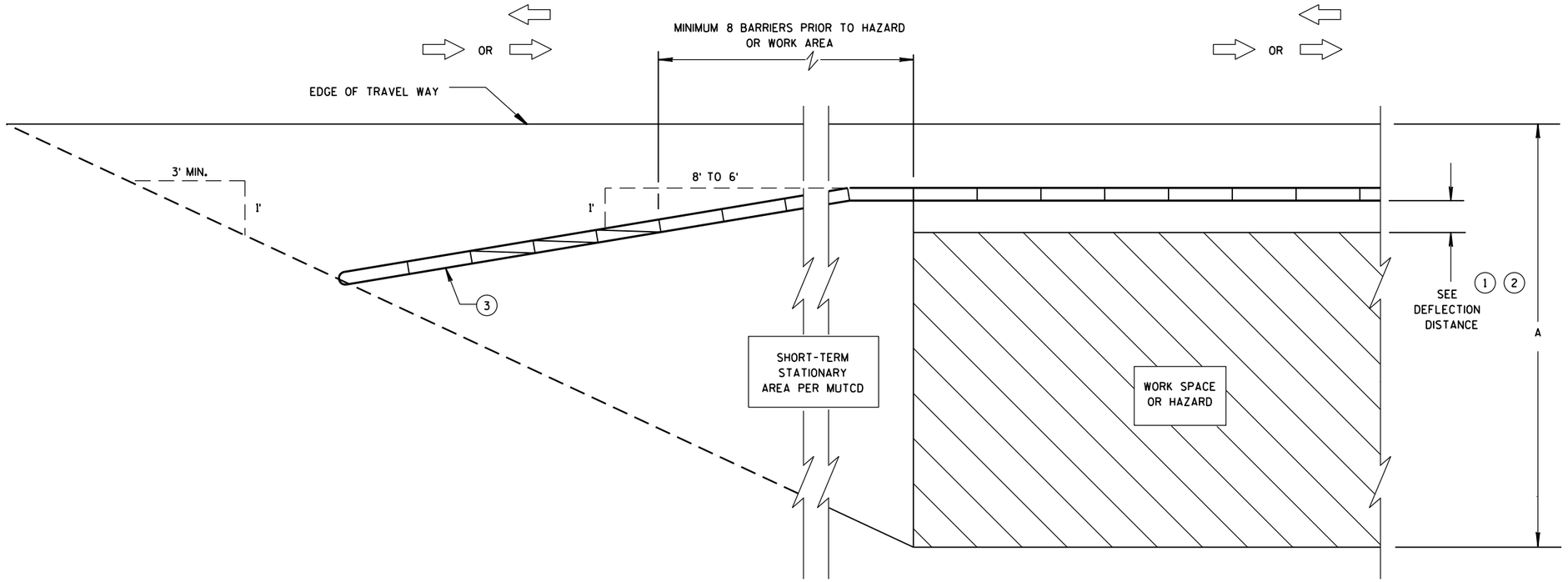
(3) ANCHOR TEMPORARY BARRIER ACCORDING TO CRASH CUSHION OR SAND BARREL MANUFACTURER'S RECOMMENDATIONS. IF MANUFACTURER'S RECOMMENDATIONS ARE NOT PROVIDED, ANCHOR 3 PINS ON TRAFFIC SIDE.

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

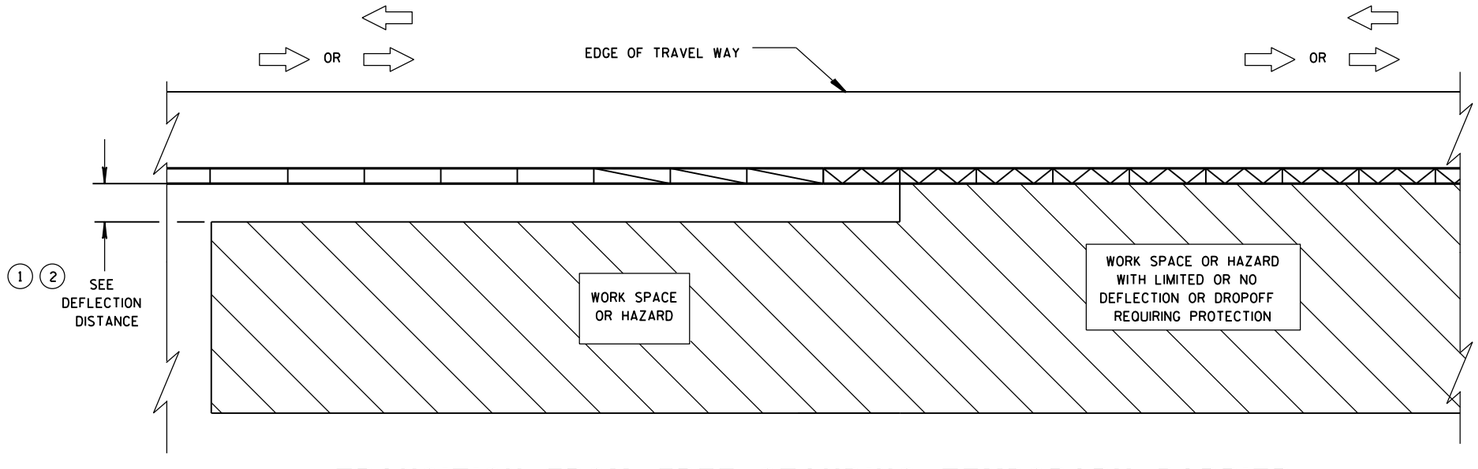
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 8-2a



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE - FLARED INSTALLATION



TRANSITION FROM FREE STANDING TEMPORARY BARRIER TO ANCHORED BARRIER

LEGEND

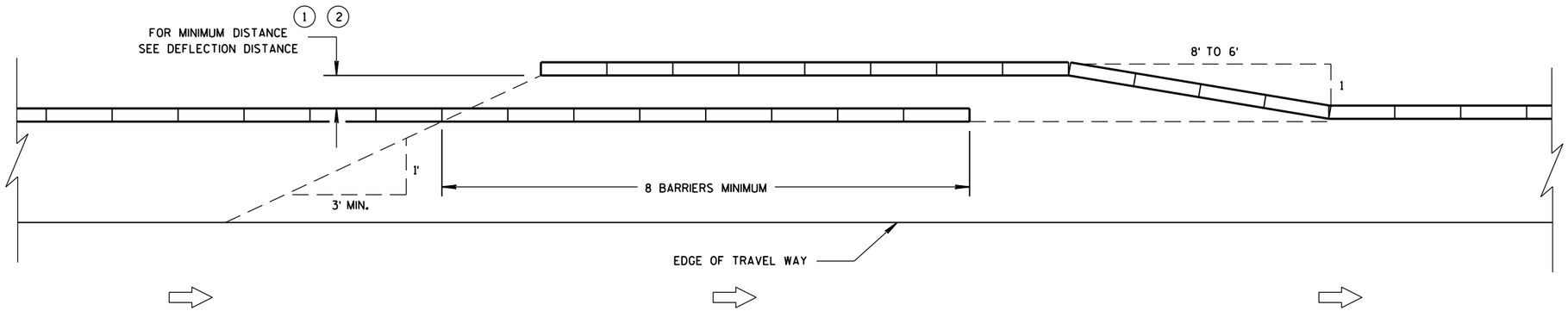
- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

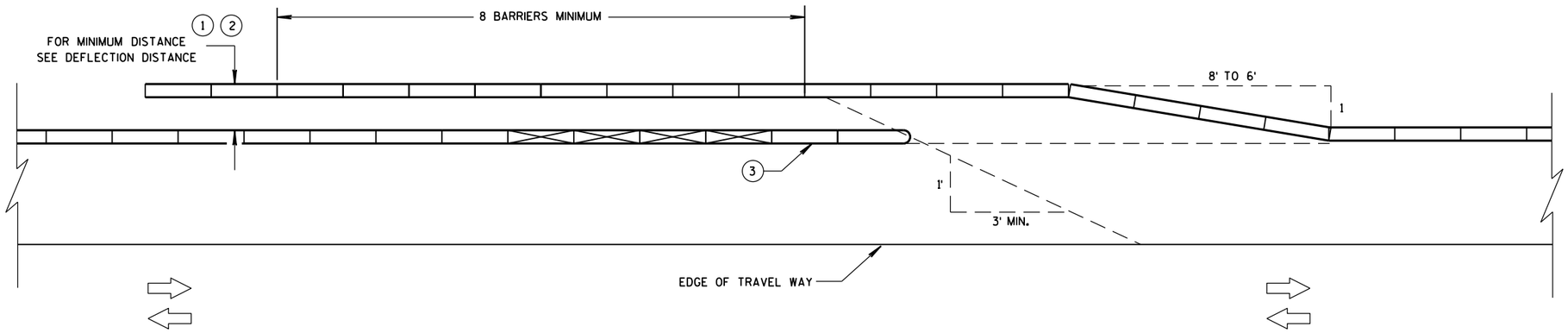
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

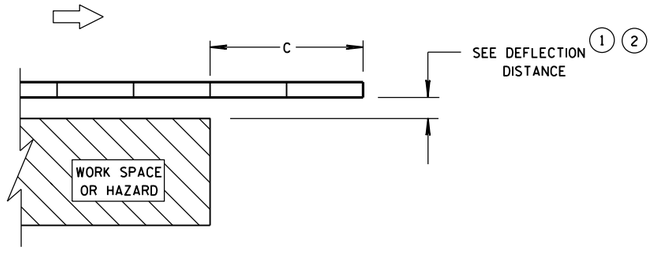
S.D.D. 14 B 8-2b



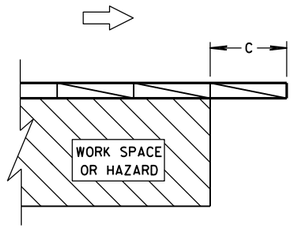
TEMPORARY BARRIER OVERLAP - ONE-WAY TRAFFIC



TEMPORARY BARRIER OVERLAP - TWO-WAY TRAFFIC



ENDING TEMPORARY BARRIER DOWNSTREAM - UNANCHORED



ENDING TEMPORARY BARRIER DOWNSTREAM - ANCHORED

LEGEND

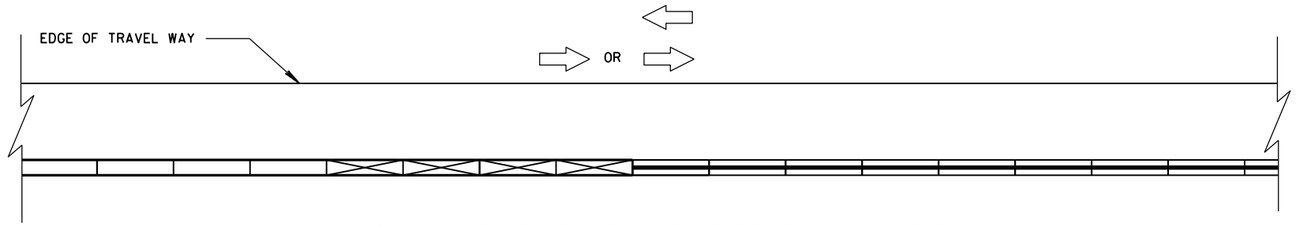
- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

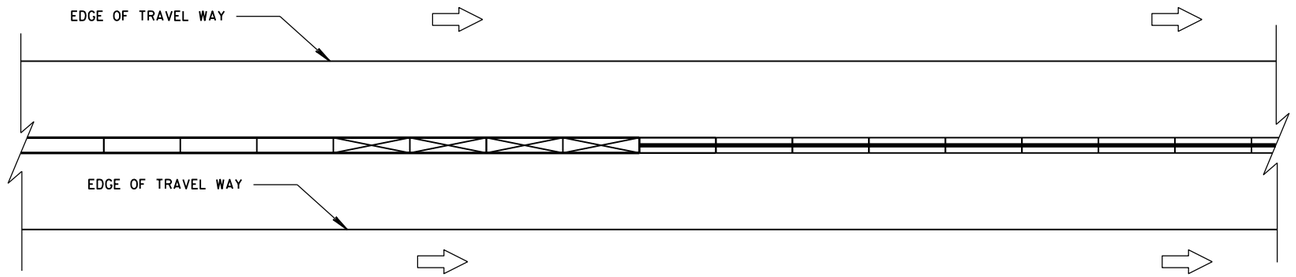
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 8-2c



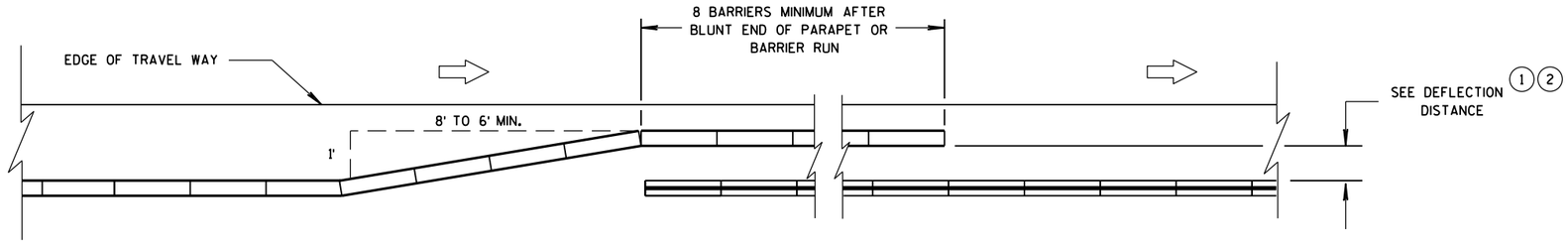
CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON ONE SIDE



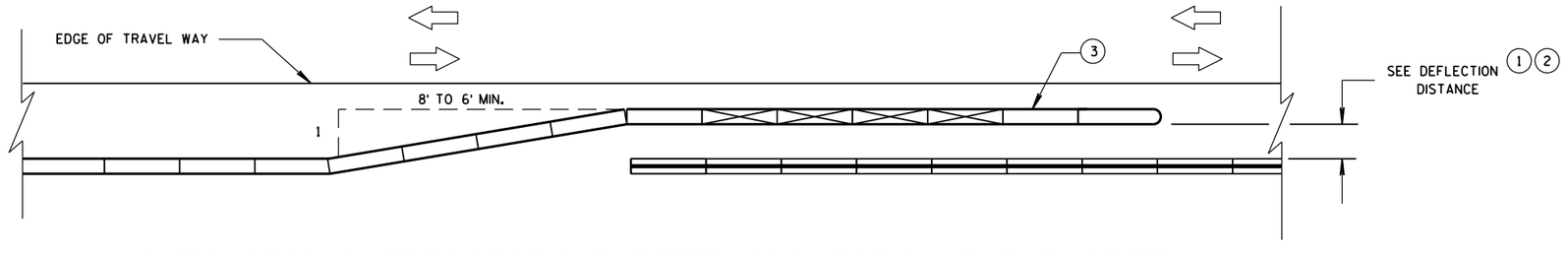
CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON BOTH SIDES

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
ONE WAY TRAFFIC



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
TWO WAY TRAFFIC

CRASH CUSHION/SAND BARREL
ARRAY AND OTHER TEMPORARY
BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 8-2d

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

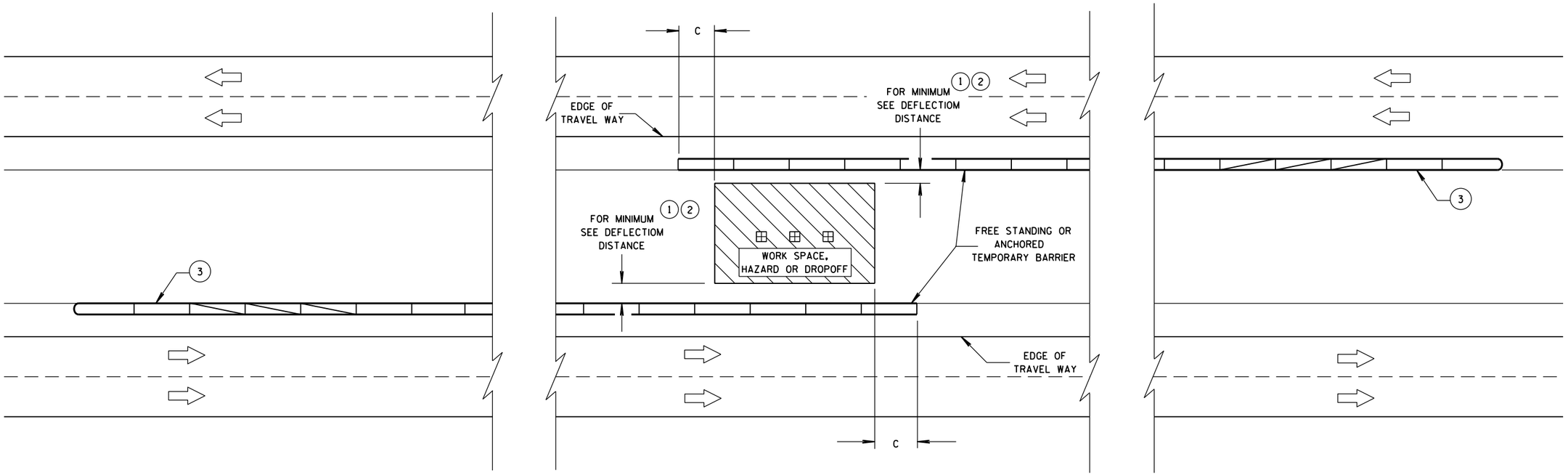
3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET

FREE STANDING TEMPORARY BARRIER

DIMENSION C TABLE (2)

AVAILABLE DEFLECTION DISTANCE	MINIMUM LENGTH OF BARRIER BEYOND HAZARD FT
GREATER THAN 8'	12.5
LESS THAN OR EQUAL TO 8' BUT GREATER THAN 4'	50
LESS THAN OR EQUAL TO 4'	100



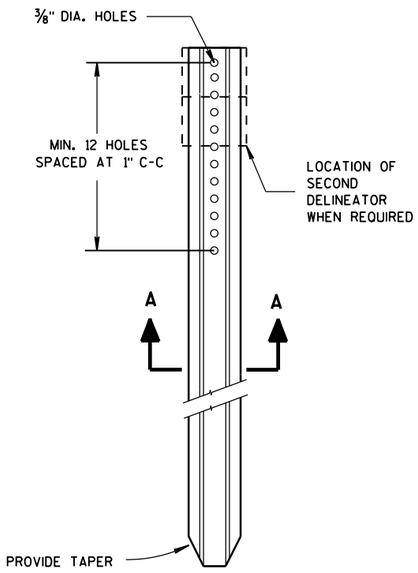
CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

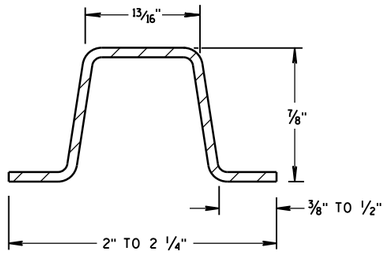
APPROVED
June, 2015
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINNER
FHWA

6

S.D.D. 14 B 8-2e

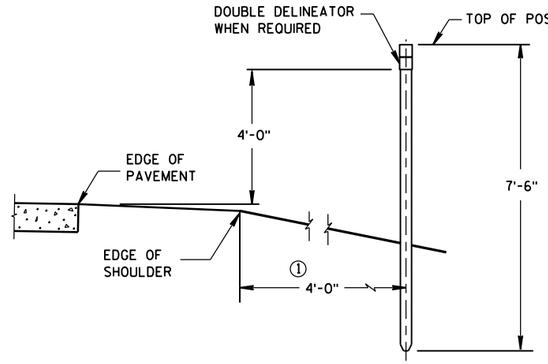


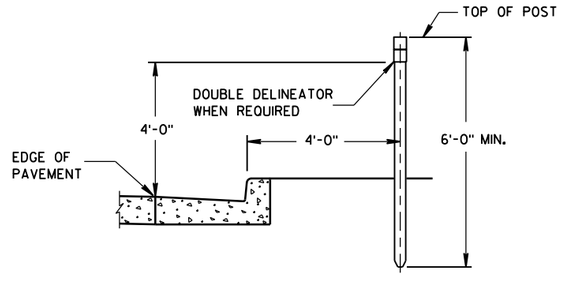
DELINEATOR POST



SECTION A-A

WEIGHT 1.12 LBS PER FT. ± 0.1 LB.



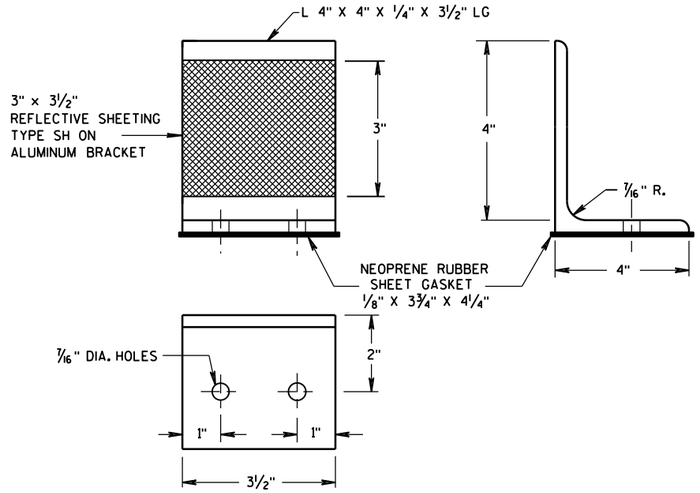


TYPICAL INSTALLATIONS OF DELINEATOR POSTS

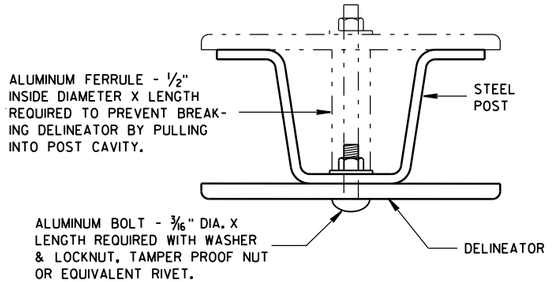
GENERAL NOTES

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

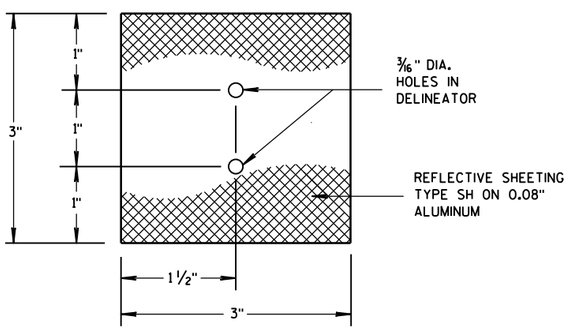
① DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.



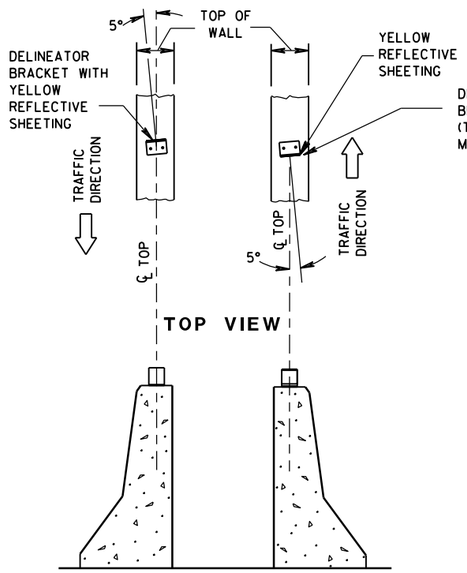
DELINEATOR BRACKET



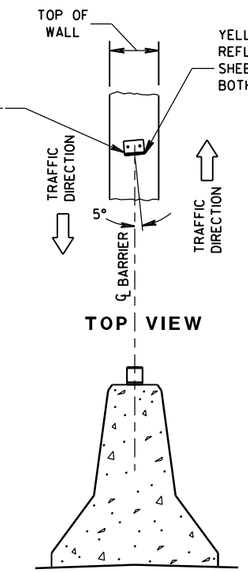
MOUNTING DETAIL FOR DELINEATOR



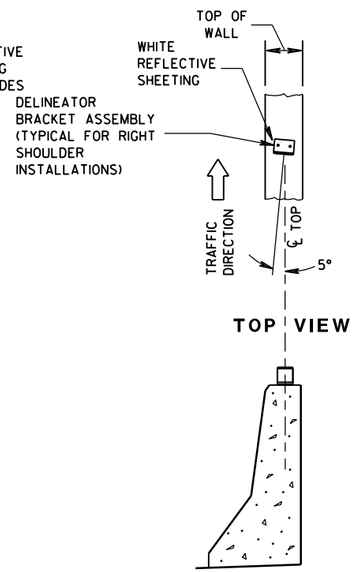
3"x 3" DELINEATOR



DOUBLE BARRIERS IN MEDIAN

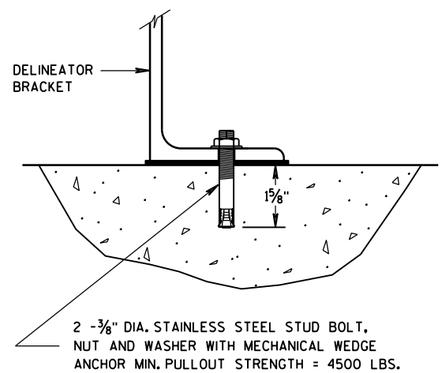


MEDIAN BARRIER



BARRIER LOCATED TO RT. OF TRAFFIC FLOW

LOCATION AND AIMING DETAILS FOR DELINEATOR BRACKETS MOUNTED ON CONCRETE BARRIERS



DELINEATOR BRACKET MOUNTING DETAIL

DELINEATOR POST, DELINEATOR, AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC E
FHWA

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S.D.D. 15 A 2-8

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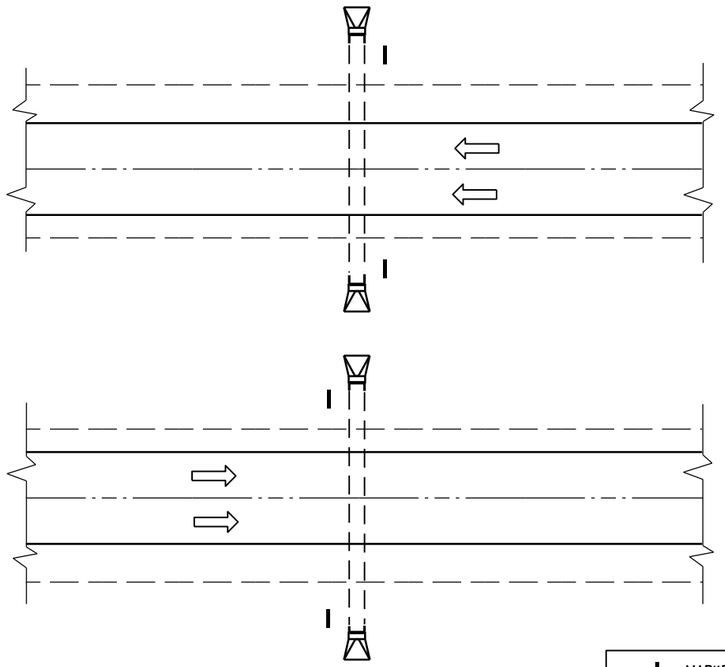
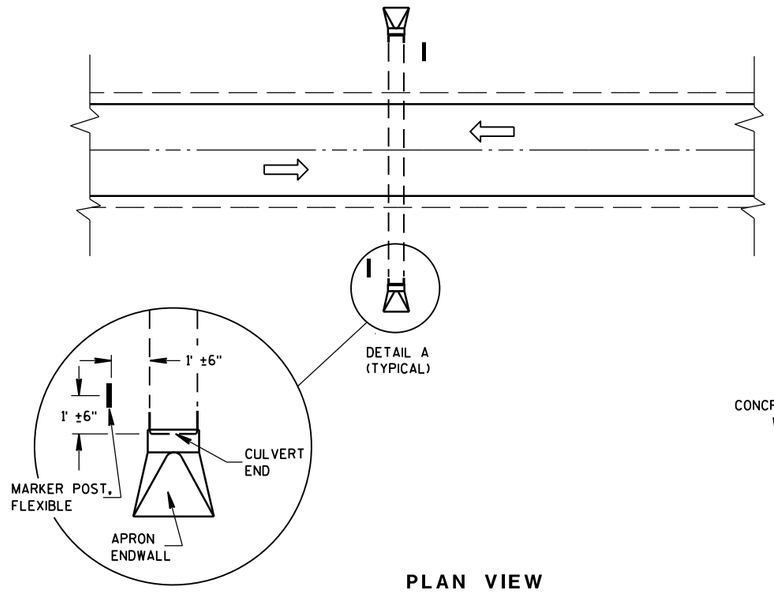


PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

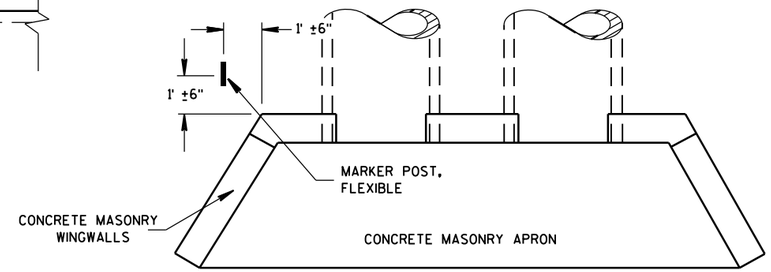
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

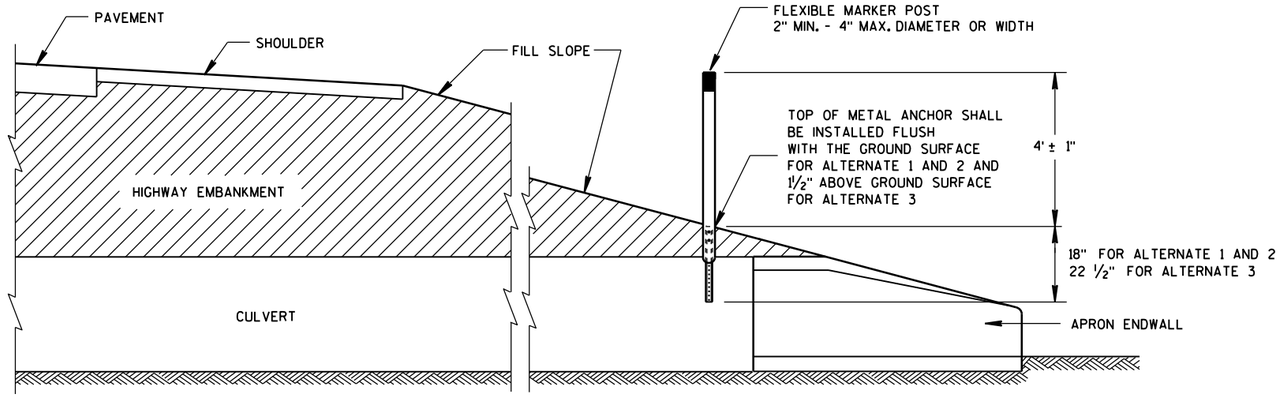
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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

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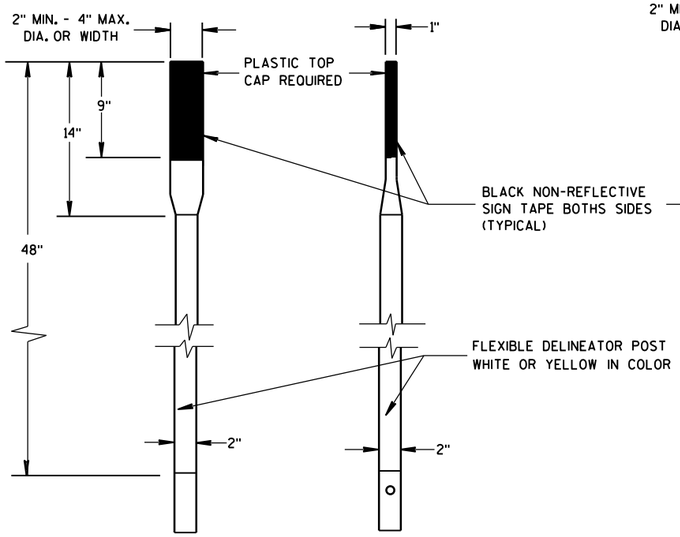
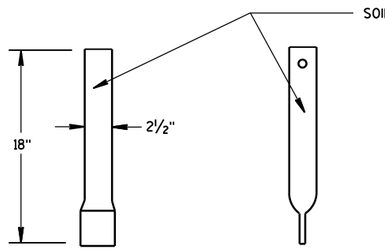
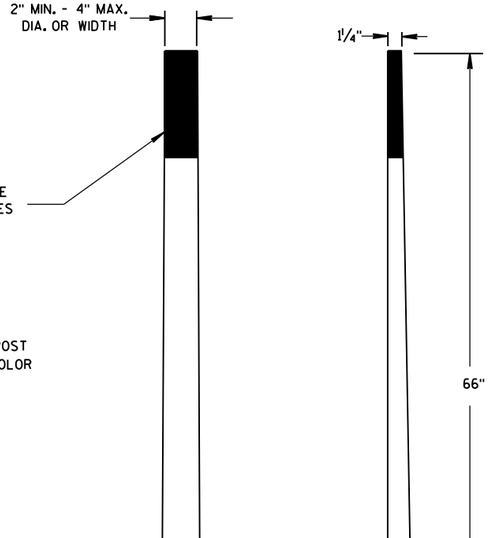
S.D.D. 15 A 3-2a





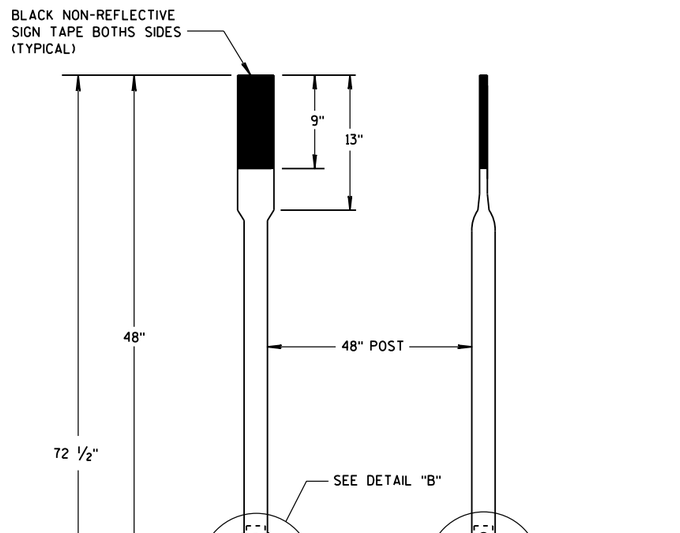
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

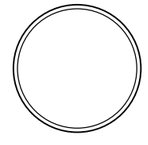
ALTERNATE 2



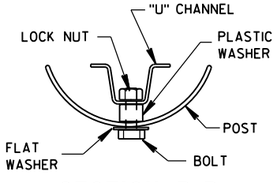
FRONT VIEW SIDE VIEW

ALTERNATE 3

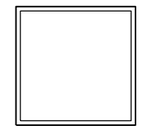
FLEXIBLE MARKER POSTS



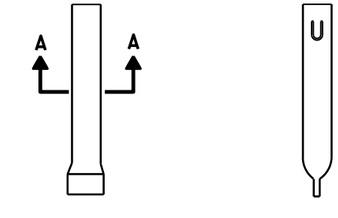
SECTION A-A



SECTION B-B

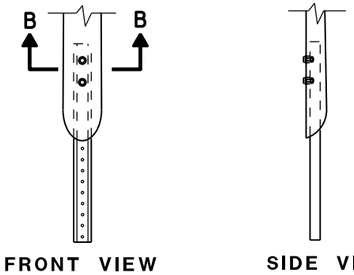


SECTION C-C



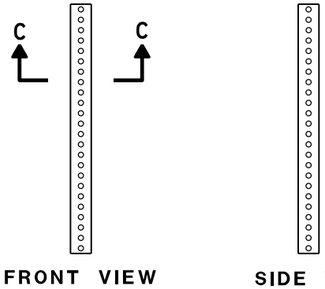
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

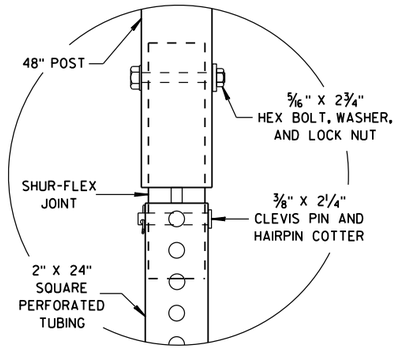
ALTERNATE 2



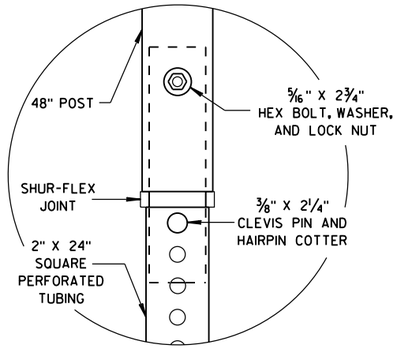
FRONT VIEW SIDE VIEW

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

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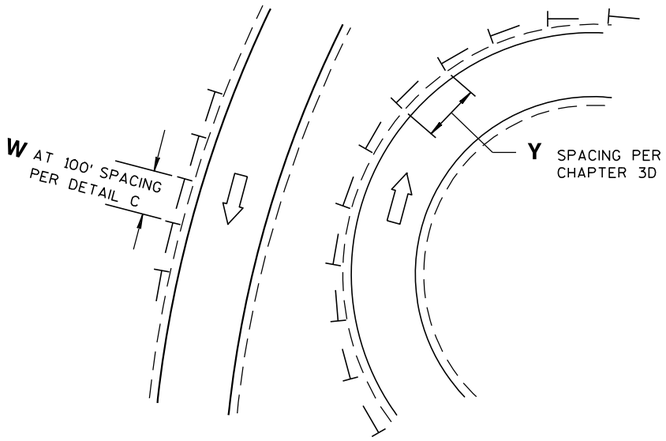
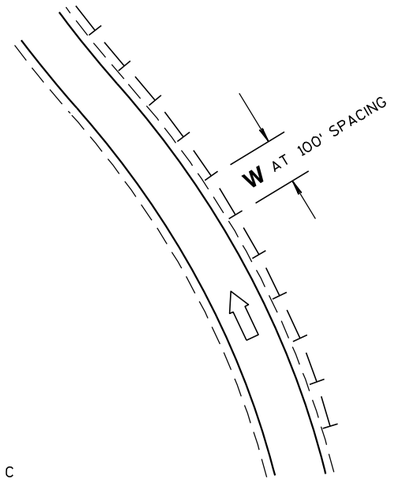
GENERAL NOTES

* USE DOUBLE DELINEATOR ALONG ACCELERATION-DECELERATION LANES AND TAPERS. USE SINGLE DELINEATOR WHEN RAMP PAVEMENT IS FULL WIDTH.



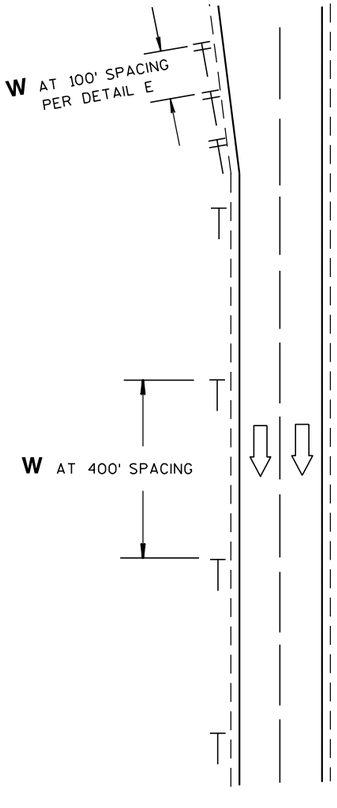
DETAIL A
DELINEATOR LAYOUT AT CURVED RAMP



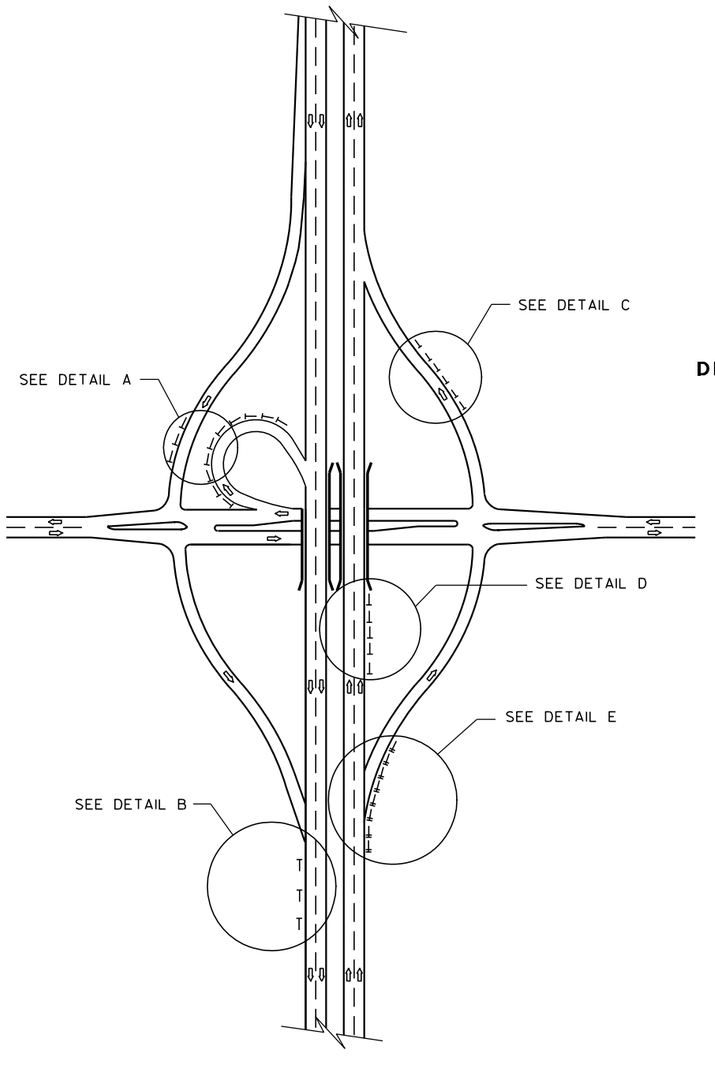
DETAIL C
DELINEATOR LAYOUT ALONG RAMP

LEGEND

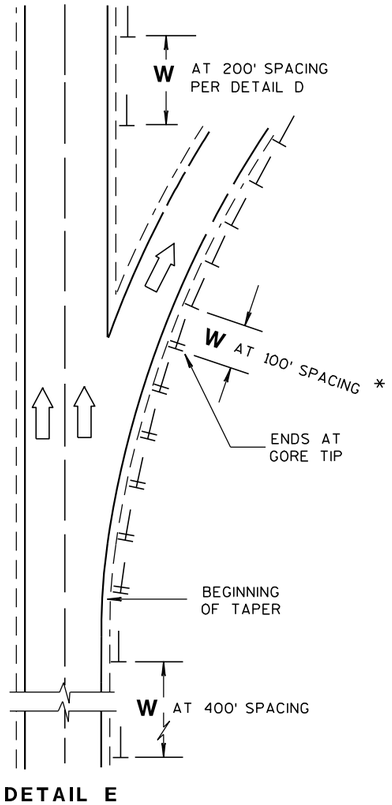
- DIRECTION OF TRAFFIC FLOW
- SINGLE DELINEATOR
- DOUBLE DELINEATOR
- W — WHITE
- Y — YELLOW



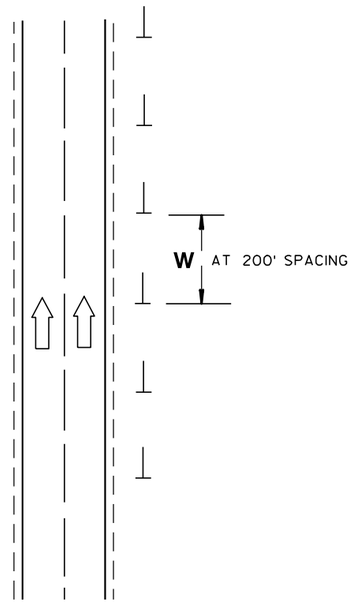
DETAIL B
DELINEATOR LAYOUT ALONG MAINLINE



DELINEATOR LAYOUT



DETAIL E
DELINEATOR LAYOUT FOR ACCELERATION - DECELERATION LANES AND TAPERS AT RAMPS



DETAIL D
DELINEATOR LAYOUT BETWEEN INTERCHANGE RAMPS

DELINEATOR LAYOUT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/5/09 DATE
/S/ Thomas N. Nothdurft STATE TRAFFIC ENGINEER
FHWA

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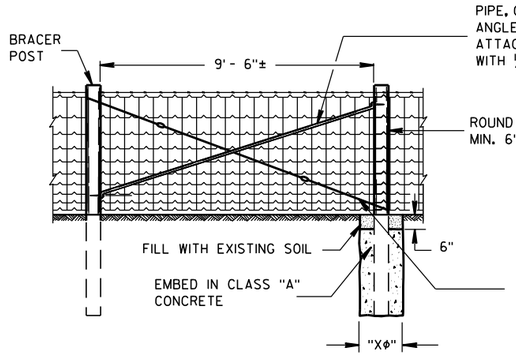
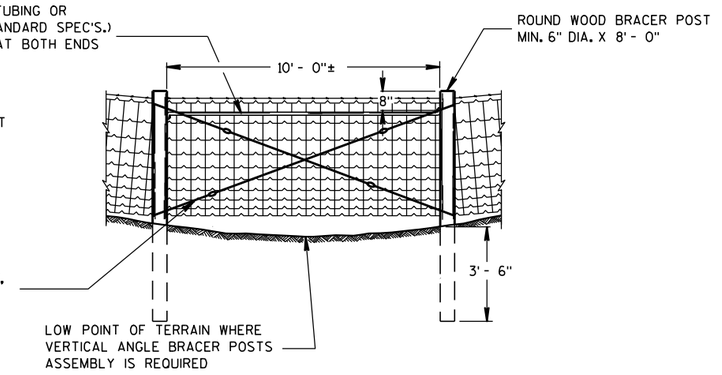
S.D.D. 15 A 6-2

NOTE: PULL OR STRETCHER POST ASSEMBLIES SHALL BE PLACED MIDWAY BETWEEN END POSTS AND CORNER POSTS WHERE A RUN OF FENCE EXCEEDS 660' BUT IS LESS THAN 1,320'. FOR RUNS OF FENCE IN EXCESS OF 1,320' MAXIMUM SPACING OF PULL OR STRETCHER POST ASSEMBLIES SHALL BE 660'± C-C.

ILLUSTRATION SHOWS POSITION OF STANDARD STEEL BRACE, DOUBLE STRAND GALVANIZED WIRE, AND THE POST TO BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM LEFT TO RIGHT. THE BRACES SHALL BE POSITIONED ON THE OPPOSITE DIAGONALS AND THE OPPOSITE POST SHALL BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM RIGHT TO LEFT.



PULL OR STRETCHER POSTS ASSEMBLY



VERTICAL ANGLE BRACER POSTS ASSEMBLY

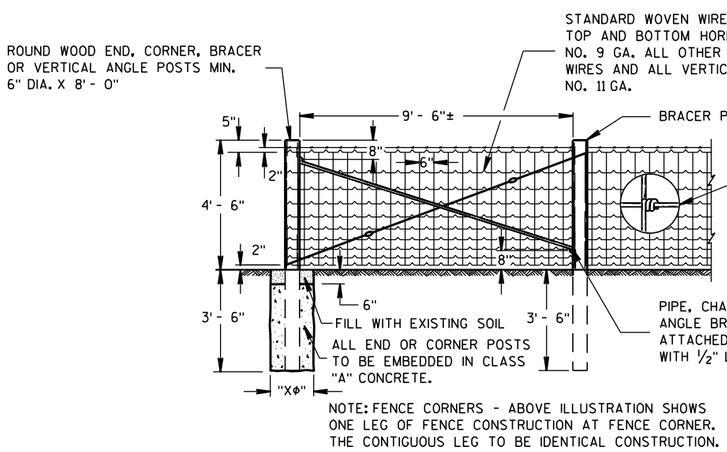
GENERAL NOTES

"XΦ" = DIAMETER OF THE POST PLUS 12".

FENCE STAPLES SHOULD NEVER BE DRIVEN VERTICALLY INTO WOOD POSTS (WITH BOTH LEGS PARALLEL WITH THE WOOD GRAIN). DOING SO CAN SEPARATE THE GRAIN AND SIGNIFICANTLY REDUCE THE HOLDING POWER. ROTATING THE STAPLES SLIGHTLY OFF VERTICAL STRADDLES THE GRAIN AND PROVIDES MORE RESISTANCE TO PULL-OUT.

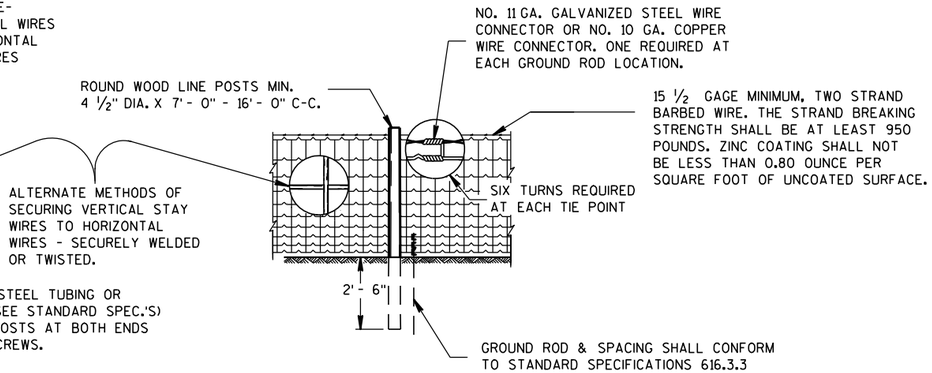
DO NOT STAPLE WIRE TIGHT TO THE LINE POSTS. ALLOW MOVEMENT OF WIRE FOR EXPANSION AND CONTRACTION. STAPLE ARRANGEMENT SHALL BE THE SAME FOR ALL OTHER POSTS EXCEPT THAT THEY SHALL BE DRIVEN TIGHT TO POSTS. ALL STAPLES SHALL BE 2" X 9 GAGE AND SHALL BE MANUFACTURED FROM GALVANIZED WIRE OR HOT DIP GALVANIZED AFTER FORMING. STAPLES SHALL HAVE SLASH-CUT POINTS.

FENCE SHALL BE LOCATED 3'-0" INSIDE THE RIGHT OF WAY LINE UNLESS OTHERWISE INDICATED ON THE PLANS.



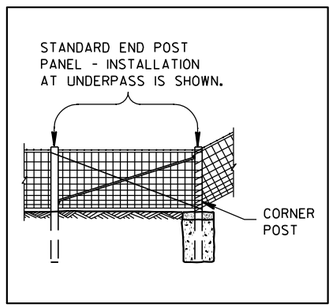
NOTE: FENCE CORNERS - ABOVE ILLUSTRATION SHOWS ONE LEG OF FENCE CONSTRUCTION AT FENCE CORNER. THE CONTIGUOUS LEG TO BE IDENTICAL CONSTRUCTION.

END OR CORNER POSTS ASSEMBLY

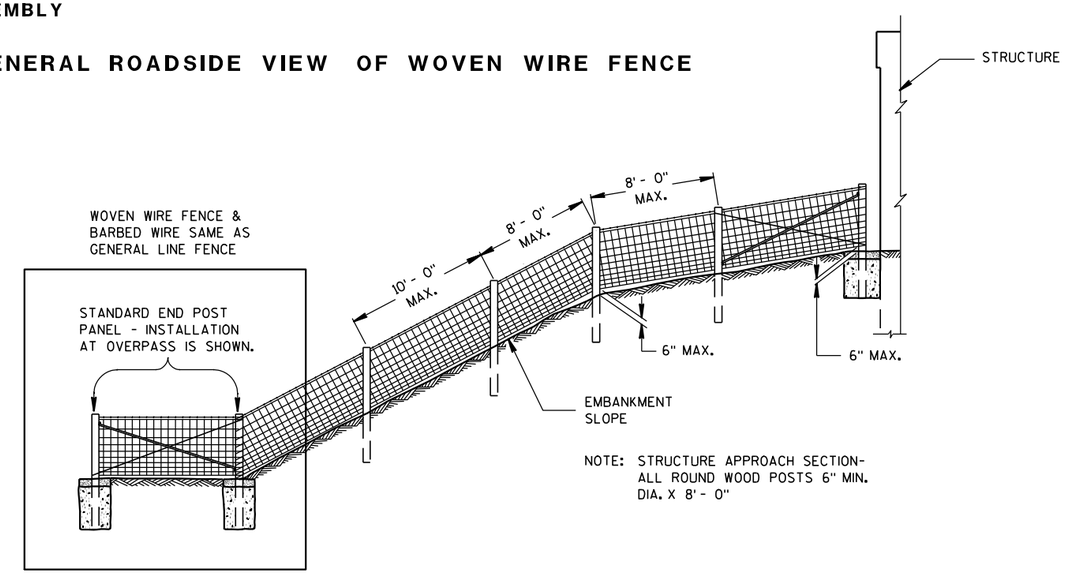


LINE FENCE CONSTRUCTION

GENERAL ROADSIDE VIEW OF WOVEN WIRE FENCE



ALTERNATE FENCE DESIGN AT STRUCTURE



NOTE: STRUCTURE APPROACH SECTION- ALL ROUND WOOD POSTS 6" MIN. DIA. X 8' - 0"

FENCE DESIGN AT STRUCTURE APPROACH

FENCE WOVEN WIRE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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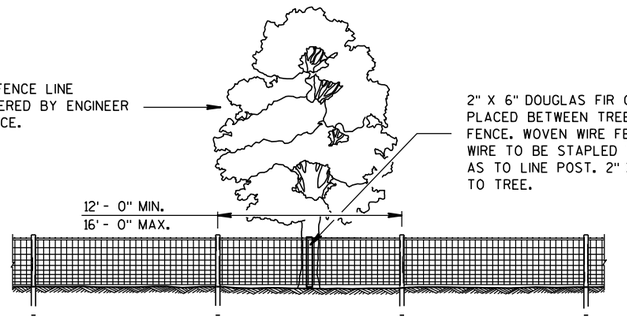
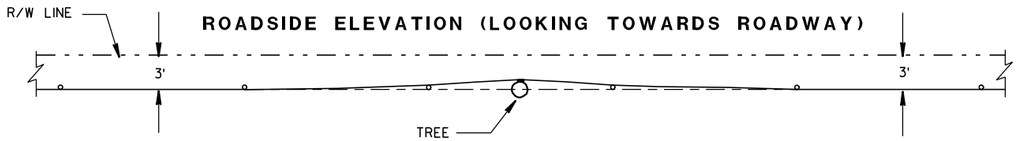
S.D.D. 15 B 1-8a

NOTE: TREE IN NORMAL FENCE LINE SPECIFICALLY ORDERED BY ENGINEER TO REMAIN IN PLACE.

2" X 6" DOUGLAS FIR OR SO. YELLOW PINE PLACED BETWEEN TREE AND WOVEN WIRE FENCE. WOVEN WIRE FENCE AND BARBED WIRE TO BE STAPLED TO 2" X 6" LIKE AS TO LINE POST. 2" X 6" NOT FASTENED TO TREE.

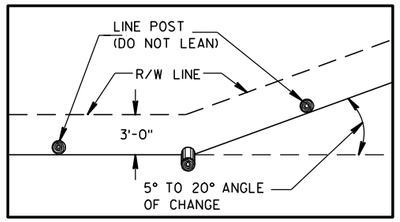


ROADSIDE ELEVATION (LOOKING TOWARDS ROADWAY)

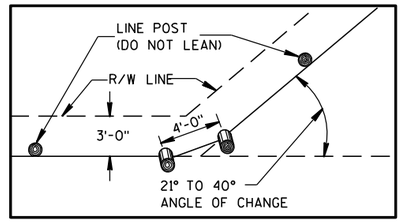


PLAN VIEW

FENCE DESIGN AT TREES REMAINING IN NORMAL FENCE LINE



PLAN VIEW
SINGLE POST CORNER

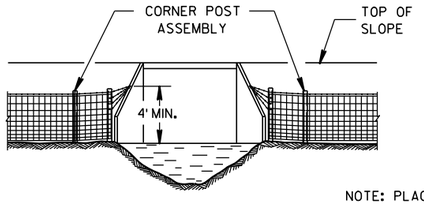


PLAN VIEW
DOUBLE POST CORNER

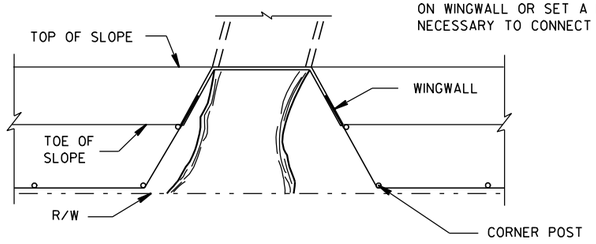
RIGHT OF WAY LINE CHANGE 40° AND LESS

NOTE: SINGLE AND DOUBLE POSTS SHALL BE A MIN. 6" DIA. X 8'-0" WITH A LEAN OF 4" TOWARD THE OUTSIDE OF THE CURVE.

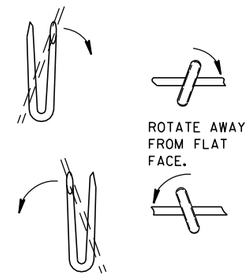
WHEN THE RIGHT OF WAY LINE CHANGE IS MORE THAN 40° USE THE CORNER OR STRETCHER POSTS ASSEMBLY.



NOTE: PLACE A MINIMUM OF 4 STRANDS OF BARBED WIRE, 6" MAXIMUM CENTERS IN FAN SHAPE CONNECTED TO AN EYE BOLT ON WINGWALL OR SET A LONE POST WHEN NECESSARY TO CONNECT BARBED WIRE.



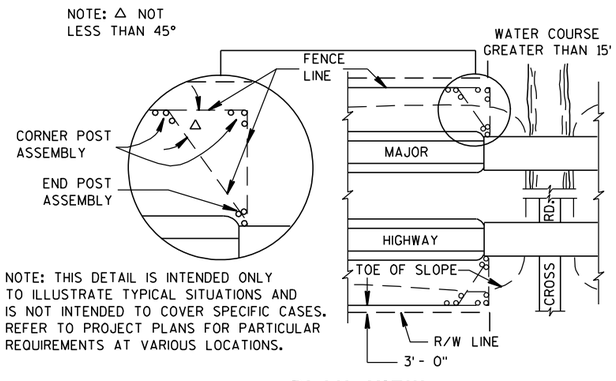
FENCE INSTALLATION TO WINGWALLS



LINE POST

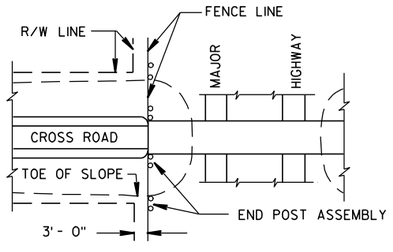
FENCE CONSTRUCTION OVER STREAM COURSES OF 15 FT. OR LESS IN WIDTH

NOTE: △ NOT LESS THAN 45°



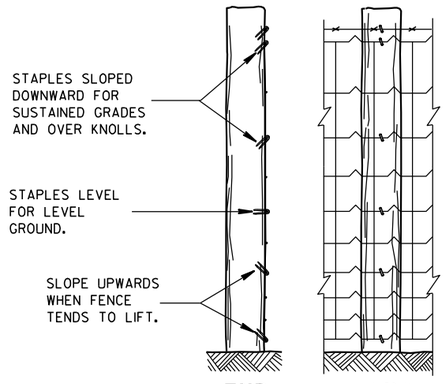
NOTE: THIS DETAIL IS INTENDED ONLY TO ILLUSTRATE TYPICAL SITUATIONS AND IS NOT INTENDED TO COVER SPECIFIC CASES. REFER TO PROJECT PLANS FOR PARTICULAR REQUIREMENTS AT VARIOUS LOCATIONS.

PLAN VIEW
MAJOR HIGHWAY OVERPASS OR STREAM COURSE CROSSING OF GREATER THAN 15 FT. IN WIDTH



PLAN VIEW
MAJOR HIGHWAY UNDERPASS

NOTE: WHEN POSTS ARE DRIVEN THE SMALL END SHALL BE DOWN.



END ELEVATION

FARM SIDE ELEVATION

FENCE MOUNTING DETAIL

FENCE LOCATION AT STRUCTURES

FENCE WOVEN WIRE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/4/2008
DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS [illegible] ENGINEER
FHWA

6

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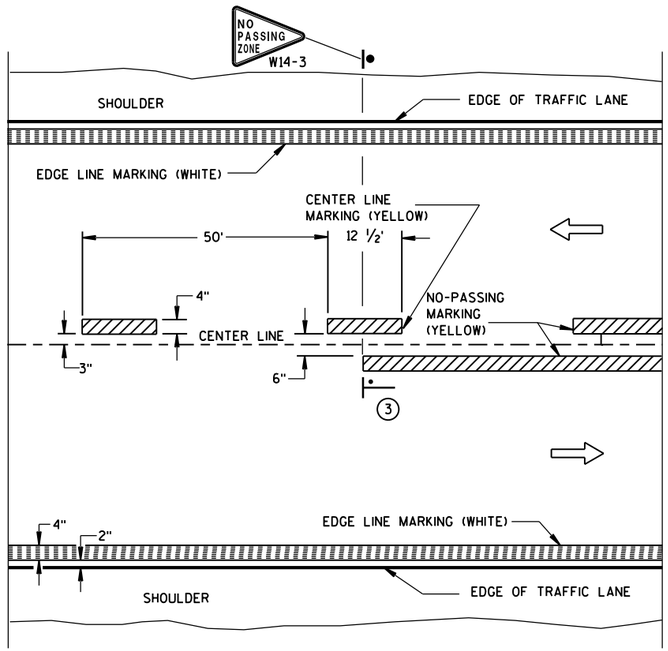
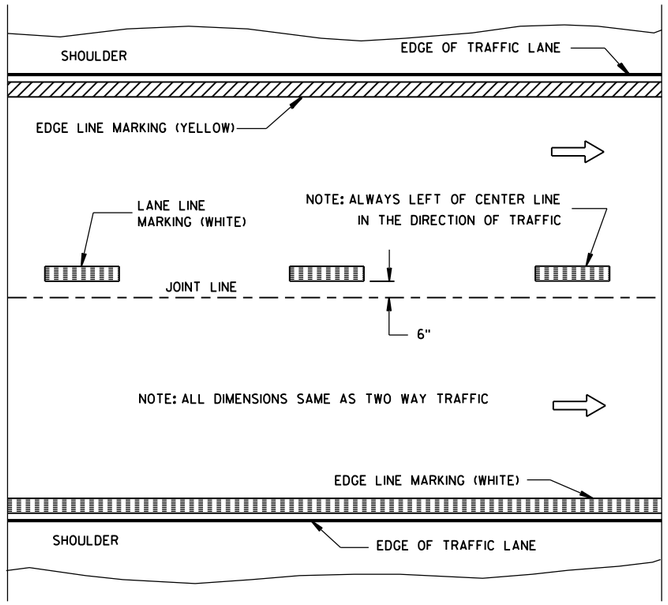
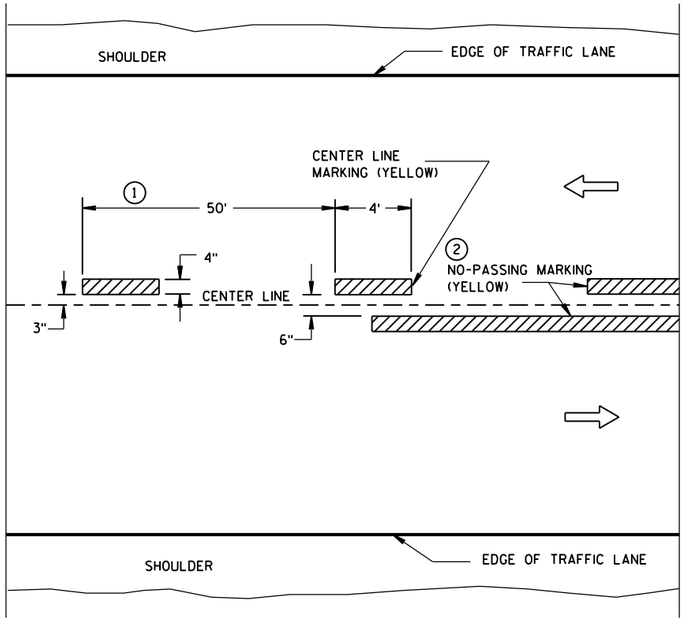


TWO WAY TRAFFIC

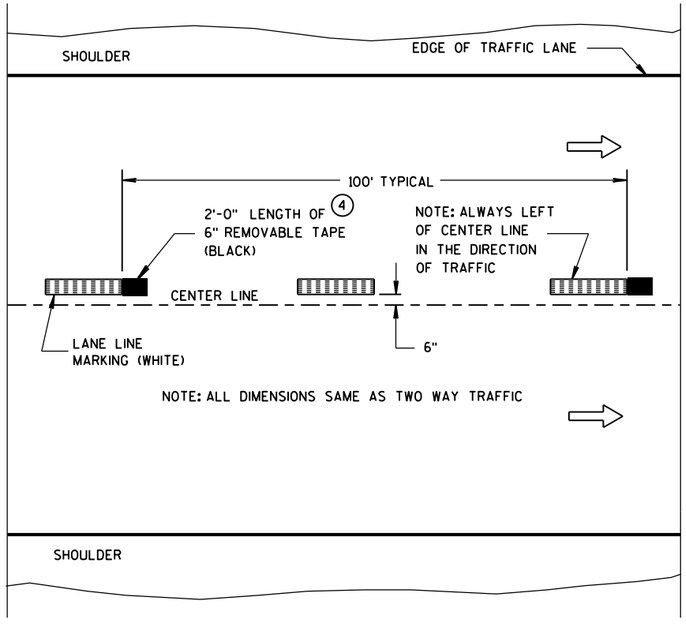


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

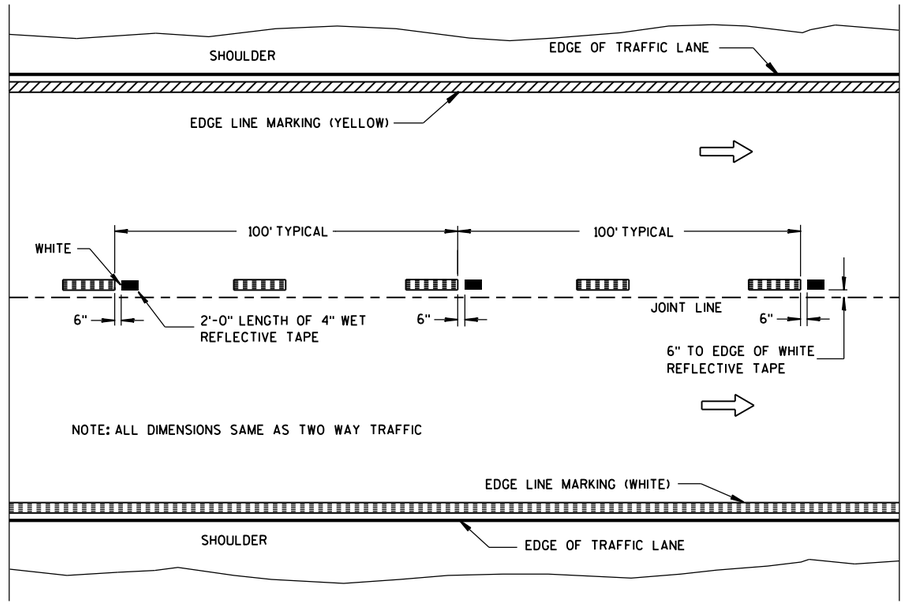
GENERAL NOTES

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

1. HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
2. NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
3. NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
4. CONCRETE ONLY.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

"T" MARKING

POST MOUNTED SIGN

PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5-13-2013 DATE
/S/ Travis Feltes STATE TRAFFIC E
FHWA

6

S.D.D. 15 C 8-16a

6

S.D.D. 15 C 8-16a

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

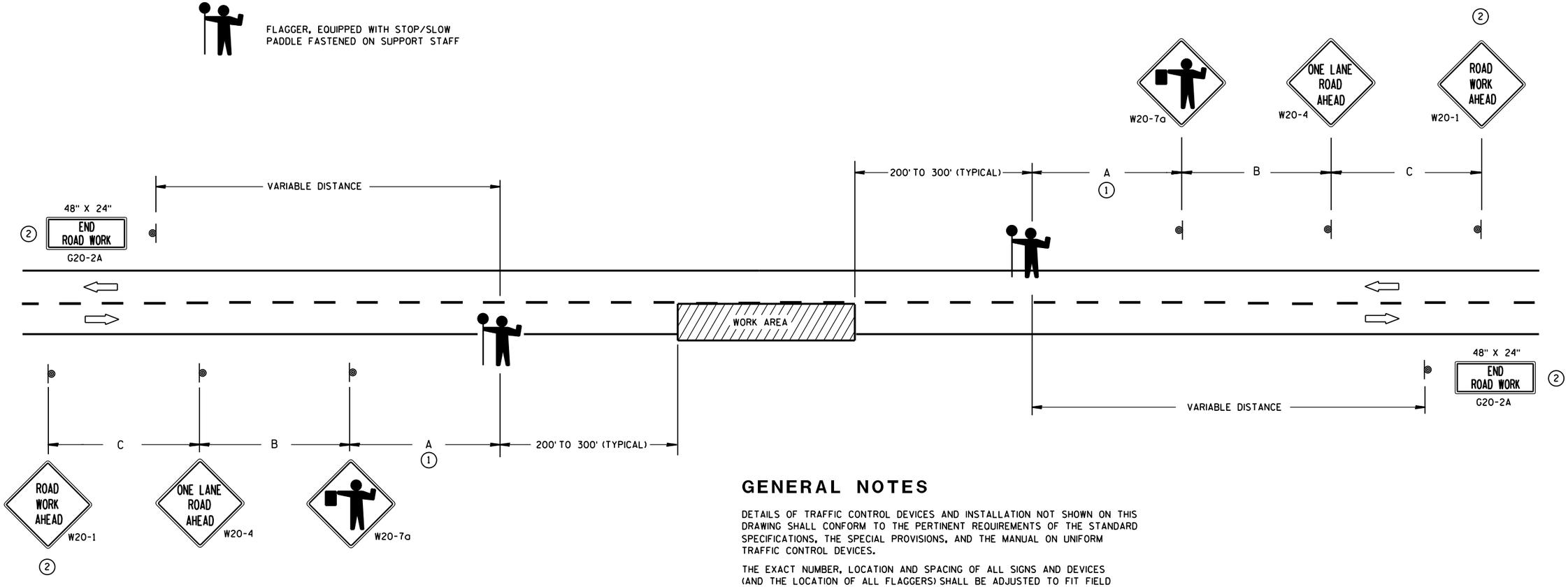
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



(1) FOR A MOVING WORK OPERATION,
SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT 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.

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.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE 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.

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, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

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

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

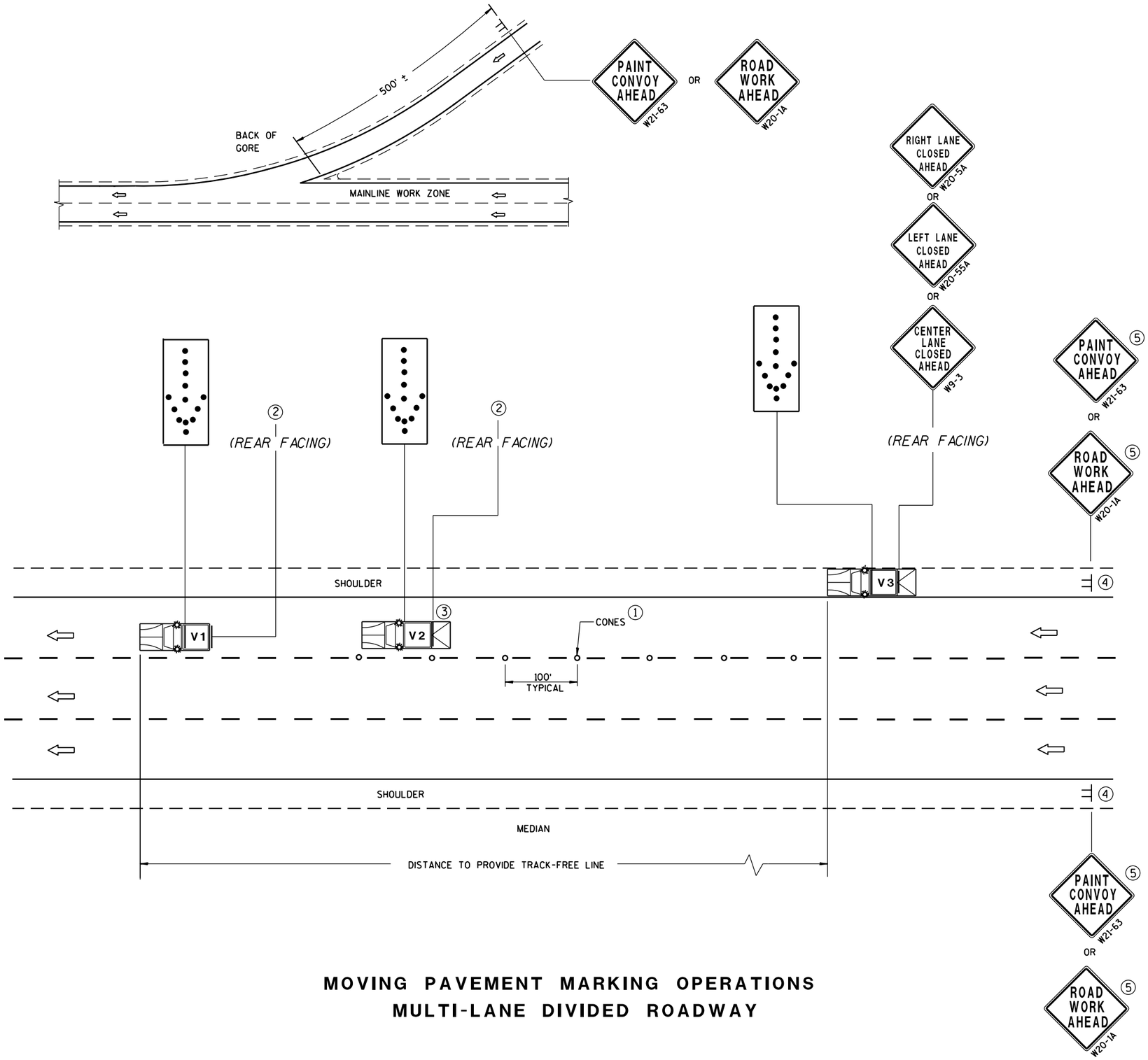
APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 C 12-4

6

S.D.D. 15 C 12-4



MOVING PAVEMENT MARKING OPERATIONS
MULTI-LANE DIVIDED ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REARMOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH. USE DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

THIS DRAWING SHALL BE USED FOR EDGELINE OR LANELINE MARKING FOR MULTILANE DIVIDED ROADWAYS.

① CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

② USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

③ OPTIONAL TRUCK-MOUNTED ATTENUATOR.

④ SIGNS SHALL BE REPEATED AFTER EVERY ON RAMP OR EVERY THREE MILES.

⑤ IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1	LEAD VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE WITH TMA
TMA	TRUCK-MOUNTED ATTENUATOR
	SIGN ON TEMPORARY SUPPORT
	DIRECTION OF TRAFFIC
	CONES
	FLASHING ARROW PANEL (MERGE)

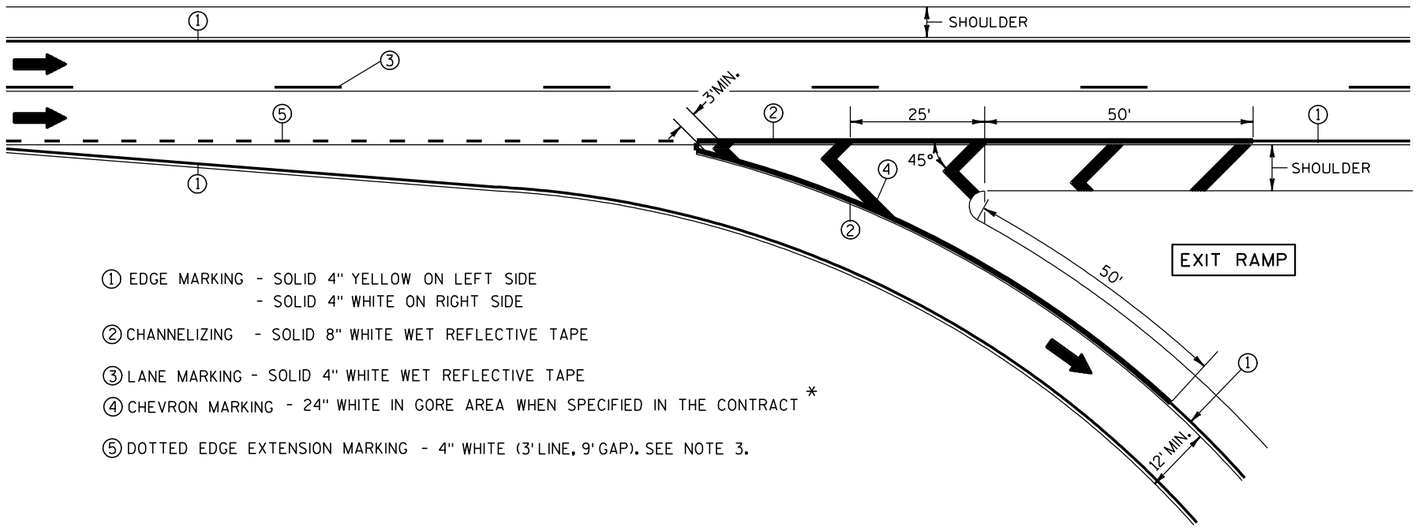
MOVING PAVEMENT MARKING OPERATION
MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZON SAFETY ENGINI
FHWA

6 S.D.D. 15 C 19-3c

6 S.D.D. 15 C 19-3c



① EDGE MARKING - SOLID 4" YELLOW ON LEFT SIDE
- SOLID 4" WHITE ON RIGHT SIDE

② CHANNELIZING - SOLID 8" WHITE WET REFLECTIVE TAPE

③ LANE MARKING - SOLID 4" WHITE WET REFLECTIVE TAPE

④ CHEVRON MARKING - 24" WHITE IN GORE AREA WHEN SPECIFIED IN THE CONTRACT *

⑤ DOTTED EDGE EXTENSION MARKING - 4" WHITE (3' LINE, 9' GAP). SEE NOTE 3.

NOTES:

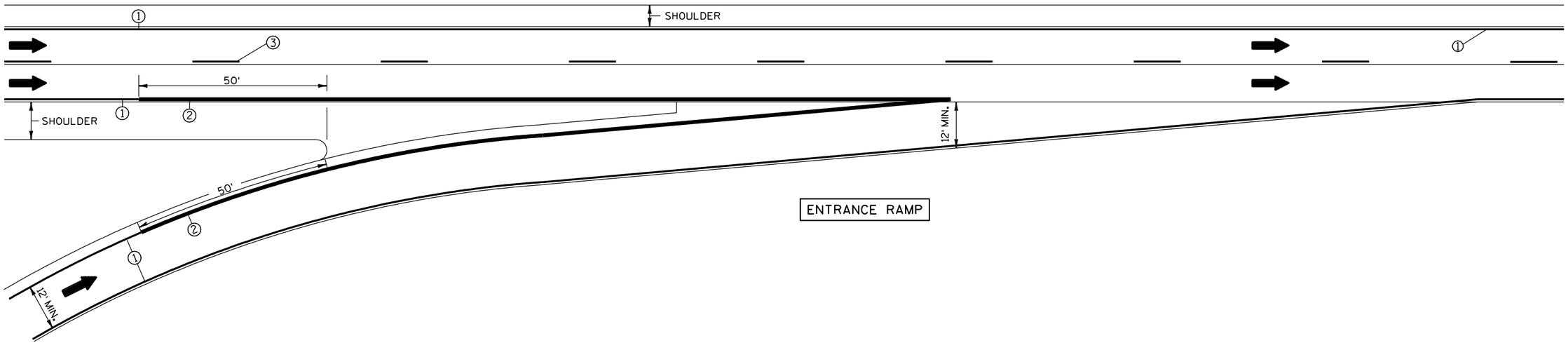
1. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.

2. PLACE WHITE EDGE OF TAPE 6" LEFT FROM JOINT.

3. 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

4. RETRACE EXISTING DIAGONAL MARKINGS.

* REFER TO DESIGN NOTES.



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6

S.D.D. 15 C 31-1a

S.D.D. 15 C 31-1a

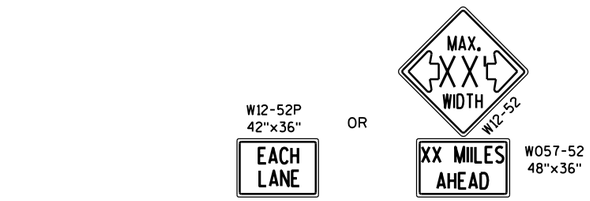
PAVEMENT MARKING (RAMPS AND GORES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

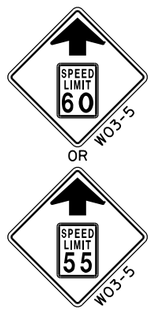
LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- REMOVING PAVEMENT MARKING
- CONCRETE BARRIER TEMPORARY PRECAST
- DIRECTION OF TRAFFIC
- WORK AREA

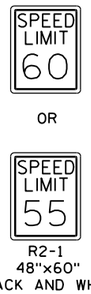
L, TAPER LENGTH (MPH)									
SPEED (MPH)	W, LATERAL OFFSET (FT)								
	10	11	12	13	14	15	16	17	18
45	450	495	540	585	630	675	720	765	810
50	500	550	600	650	700	750	800	850	900
55	550	605	660	715	770	825	880	935	990
60	600	660	720	780	840	900	960	1020	1080
65	650	715	780	845	910	975	1040	1105	1170
70	700	770	840	910	980	1050	1120	1190	1260



INSTALL ON EACH APPROACH AT THE CLOSEST INTERSECTION WITH A STATE OR COUNTY TRUNK HIGHWAY, OR AS DIRECTED BY THE ENGINEER. WIDTH ON SIGN TO BE APPROX. 1 FOOT LESS THAN AVAILABLE WIDTH (OMIT IF AVAILABLE WIDTH IS MORE THAN 16 FEET).



LOCATED 2600 FEET IN ADVANCE OF R2-1 SIGN AND 500 FEET BEYOND THE "ROAD WORK 1 MILE" SIGN.



R2-1
48"x60"
(BLACK AND WHITE)
LOCATED 500 FEET BEYOND W20-5G SIGN.

IF THE REGULATORY SPEED HAS BEEN REDUCED, A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. THERE SHOULD BE A SPEED LIMIT SIGN INCORPORATED A MINIMUM OF EVERY 2 OR 3 MILES.

* INCLUDE RESUME SPEED LIMIT SIGN A MINIMUM OF 200 FEET (500 FEET DESIRABLE) AFTER END ROAD WORK SIGNS.

GENERAL NOTES

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

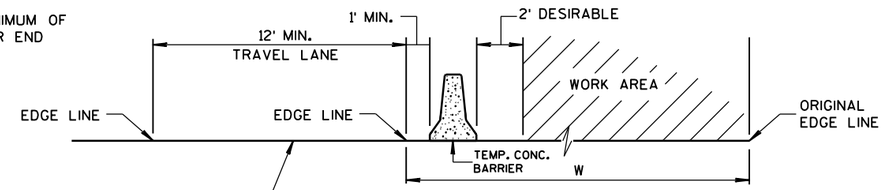
(1) CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUM TAPER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.



TYPICAL SECTION

TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED March 2016 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZOI SAFETY ENGIN IC
FHWA

S.D.D. 15 D 3-3

S.D.D. 15 D 3-3

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMENENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

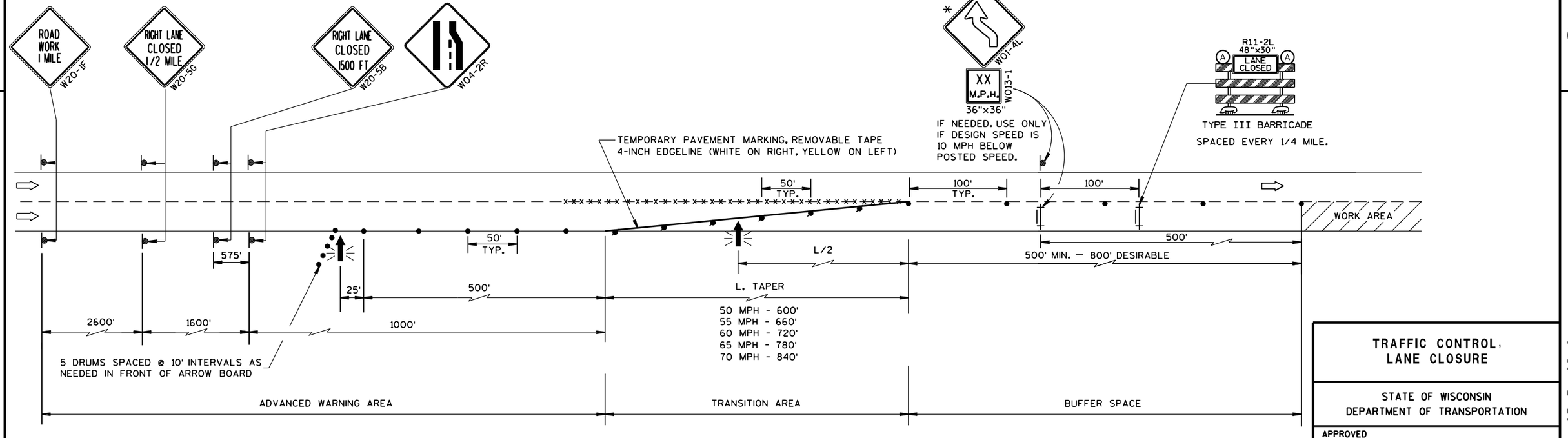
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

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

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

* THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.



TRAFFIC CONTROL, LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2016 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

6

S.D.D. 15 D 12-6a

6

S.D.D. 15 D 12-6a

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMENENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

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

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

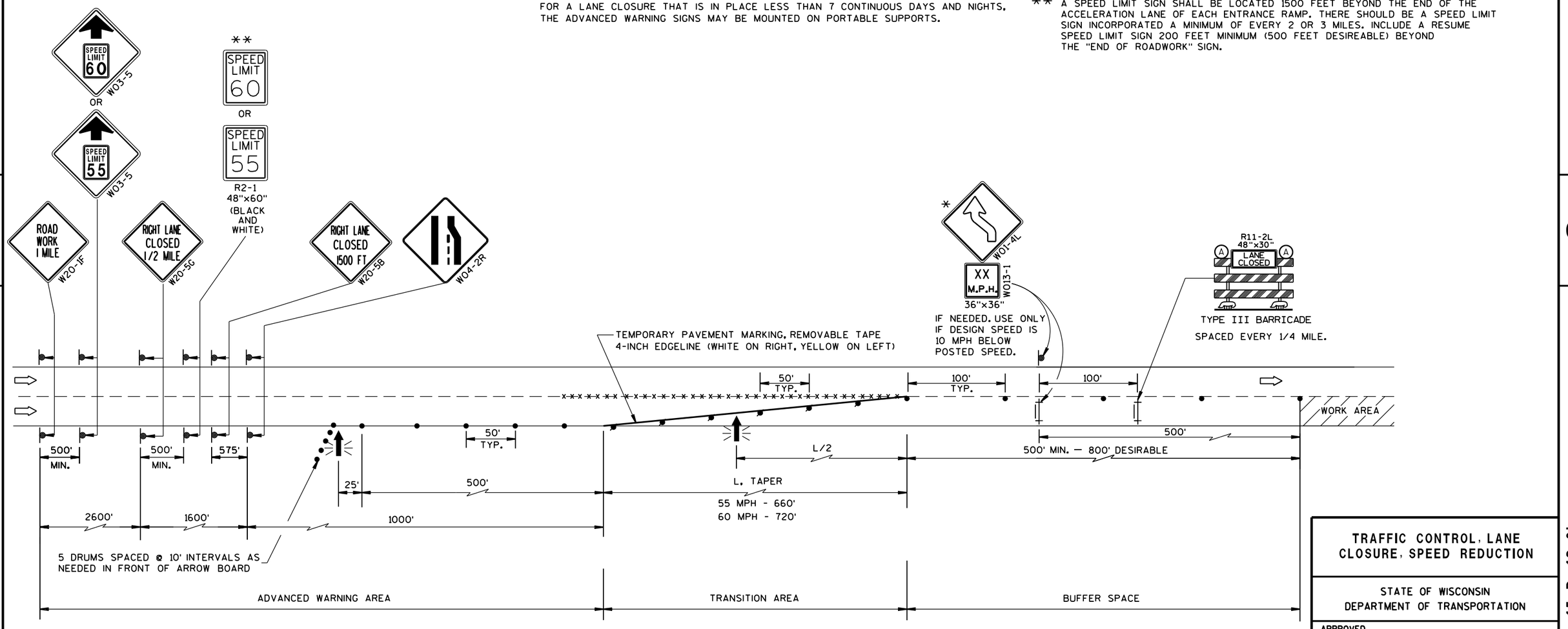
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

* THE LEFT REVERSE CURVE SIGN (W01-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.

** A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. THERE SHOULD BE A SPEED LIMIT SIGN INCORPORATED A MINIMUM OF EVERY 2 OR 3 MILES. INCLUDE A RESUME SPEED LIMIT SIGN 200 FEET MINIMUM (500 FEET DESIREABLE) BEYOND THE "END OF ROADWORK" SIGN.



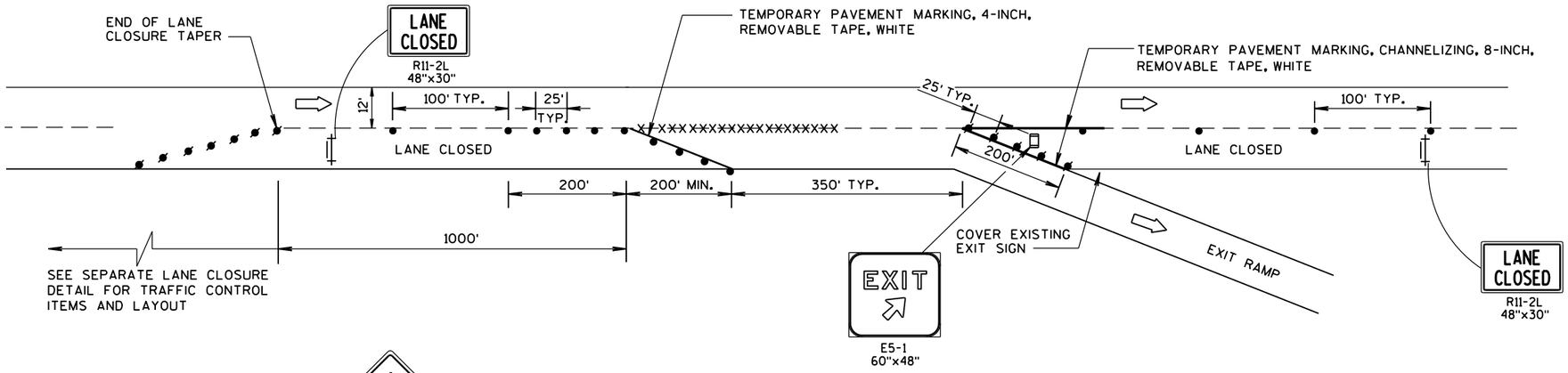
TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

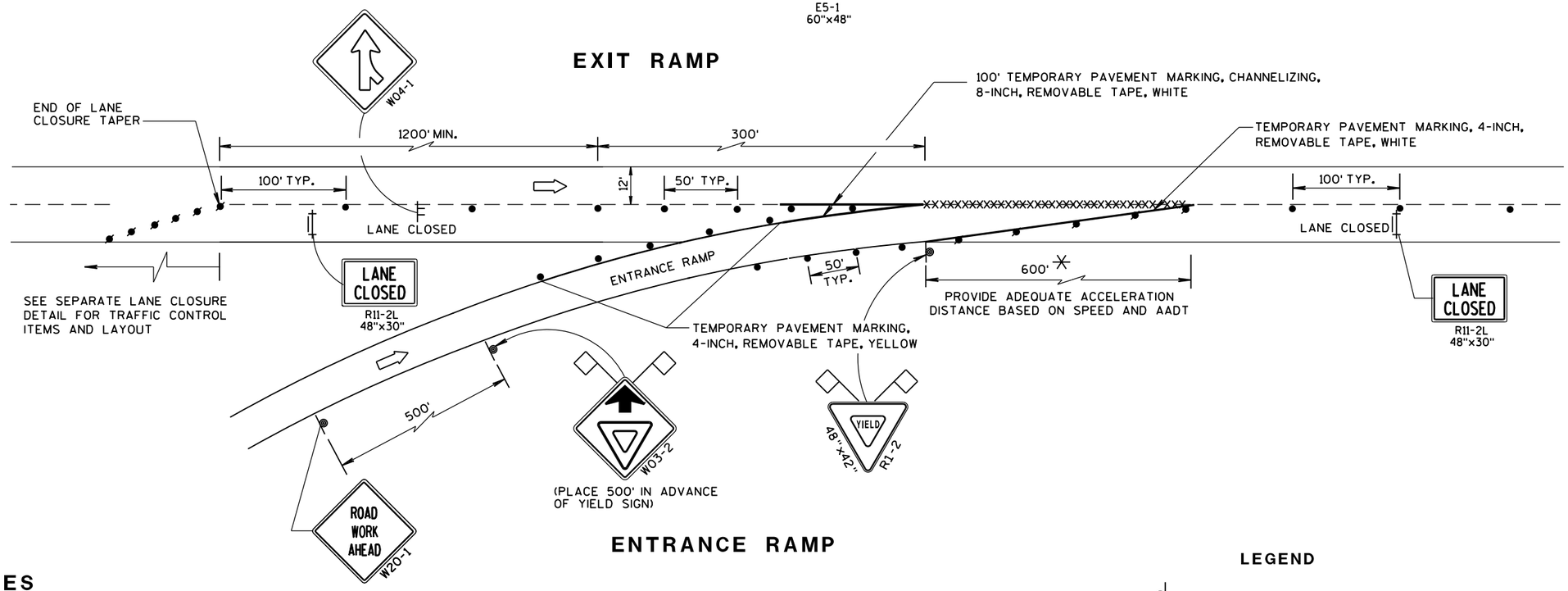
APPROVED
March 2016 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO SAFETY ENGIN IC
FHWA

6

S.D.D. 15 D 12-6b



EXIT RAMP



ENTRANCE RAMP

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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

THE SPACING BETWEEN 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"x48" UNLESS OTHERWISE NOTED.

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

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

YIELD SIGN AND WARNING SIGNS ON ENTRANCE RAMP ARE ALSO APPROPRIATE FOR CLOSURE OF THE MAINLINE LEFT LANE. OMIT THE YIELD SIGN IF MORE THAN ONE LANE REMAINS OPEN ON THE MAINLINE AND THE RAMP TAPER IS AT LEAST AS LONG AS THE NORMAL ENTRANCE RAMP TAPER AT THE SITE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

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

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

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

* LENGTH OF OPENING MAY BE REDUCED TO 150 FEET DURING STAGING OF WORK IN IMMEDIATE AREA OF RAMP TAPER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAGS, 16" x 16" MIN., (ORANGE)
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

S.D.D. 15 D 15-2

S.D.D. 15 D 15-2

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW BOARD
- WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

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

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

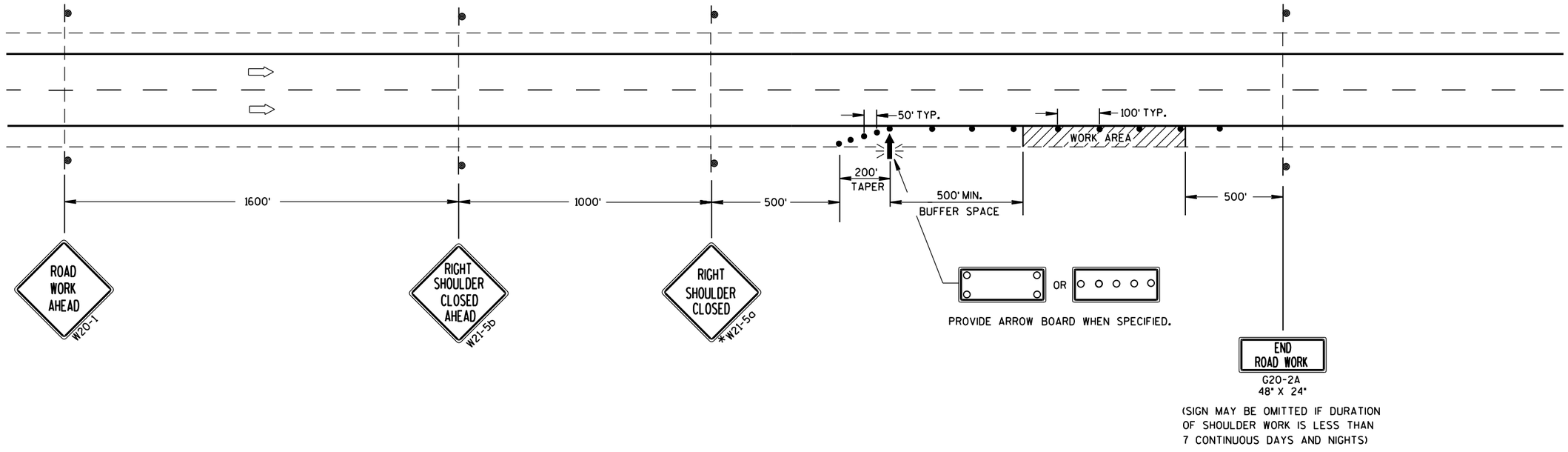
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

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

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

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

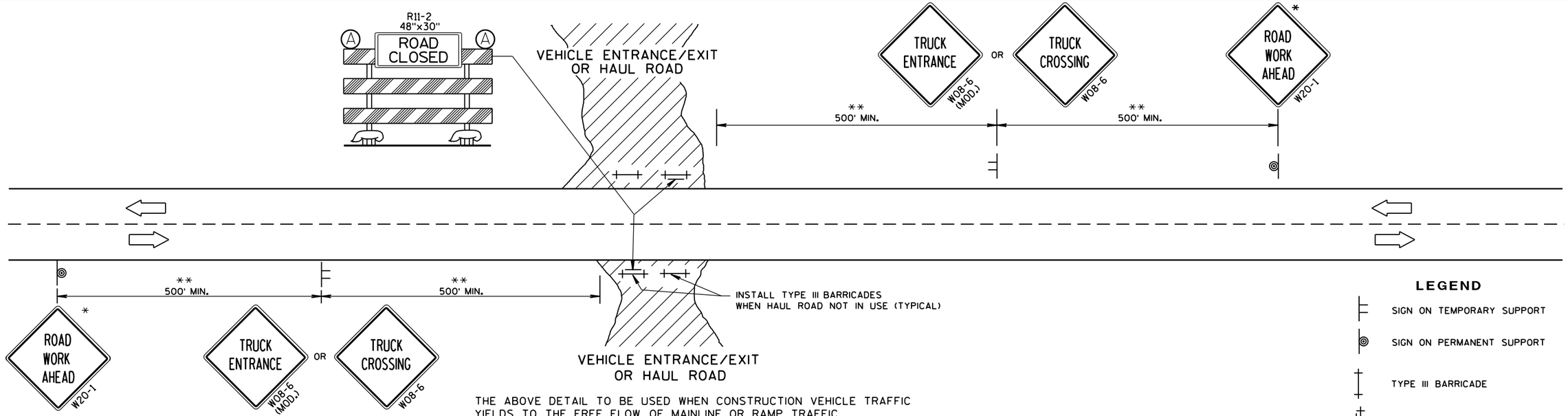
8/2013 DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

FHWA

6

S.D.D. 15 D 27-2



THE ABOVE DETAIL TO BE USED WHEN CONSTRUCTION VEHICLE TRAFFIC YIELDS TO THE FREE FLOW OF MAINLINE OR RAMP TRAFFIC

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC

GENERAL NOTES

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

WHEN ACTIVITY REFLECTED BY THE SIGN IS NOT CURRENTLY TAKING PLACE, THE HIGHWAY SHALL BE RESTORED TO NORMAL CONDITION AND THE SIGNS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC.

WHEN A SIDE ROAD OR RAMP INTERSECTS WITHIN THE ADVANCE SIGNING AREA, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

* THESE SIGNS ARE TO BE USED ONLY WHEN VEHICLE **ENTRANCE/EXIT CONDITIONS ARE SEPARATED BY MORE THAN 2 MILES** FROM PREVIOUS WORK AREA OR SIGNING OR AS DIRECTED BY THE ENGINEER.

** 500 FEET SHOWN IS FOR ROADWAYS WITH A NON-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FEET. FOR 25-30 MPH, USE 200 FEET. USE 1000 FEET/1500 FEET FOR EXPRESSWAY/FREEWAY.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

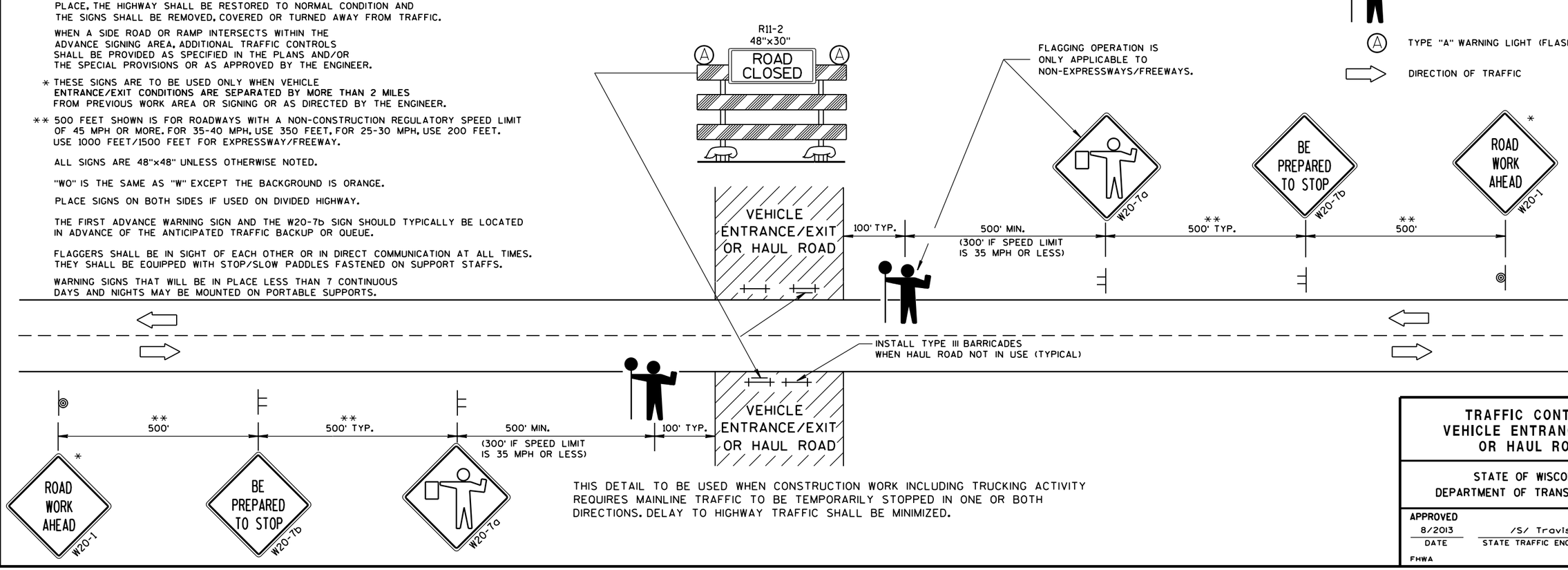
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

PLACE SIGNS ON BOTH SIDES IF USED ON DIVIDED HIGHWAY.

THE FIRST ADVANCE WARNING SIGN AND THE W20-7b SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

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.

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



THIS DETAIL TO BE USED WHEN CONSTRUCTION WORK INCLUDING TRUCKING ACTIVITY REQUIRES MAINLINE TRAFFIC TO BE TEMPORARILY STOPPED IN ONE OR BOTH DIRECTIONS. DELAY TO HIGHWAY TRAFFIC SHALL BE MINIMIZED.

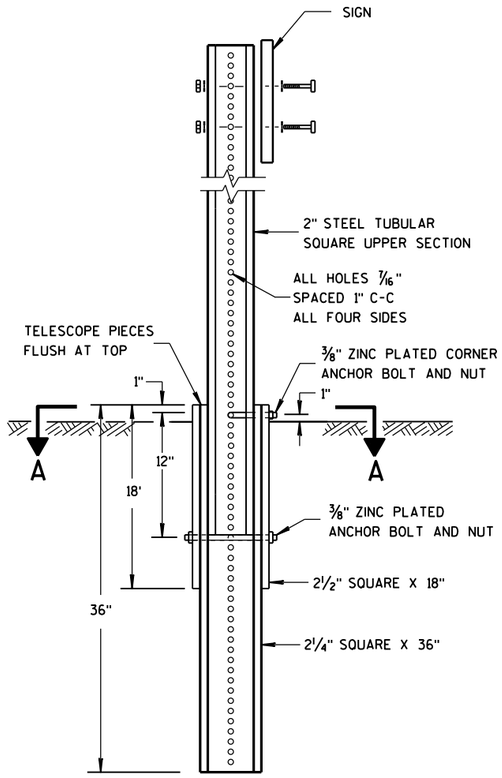
TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

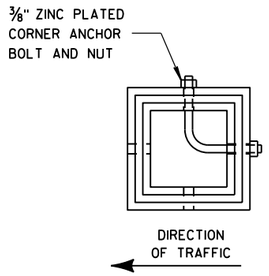
APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

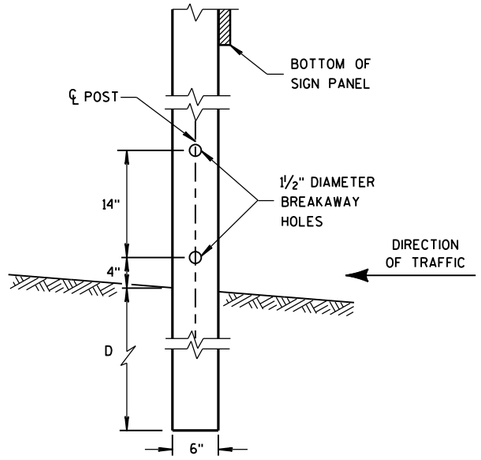
S.D.D. 15 D 29-3



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



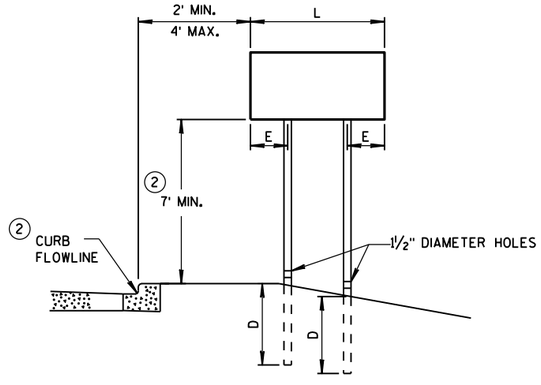
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

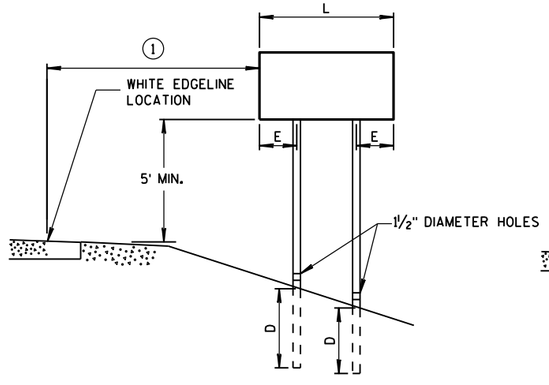
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

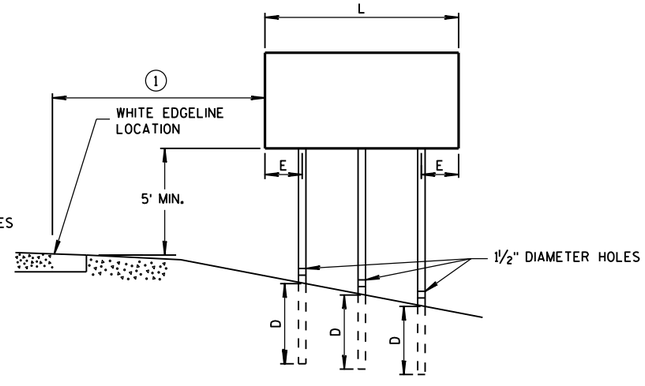
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

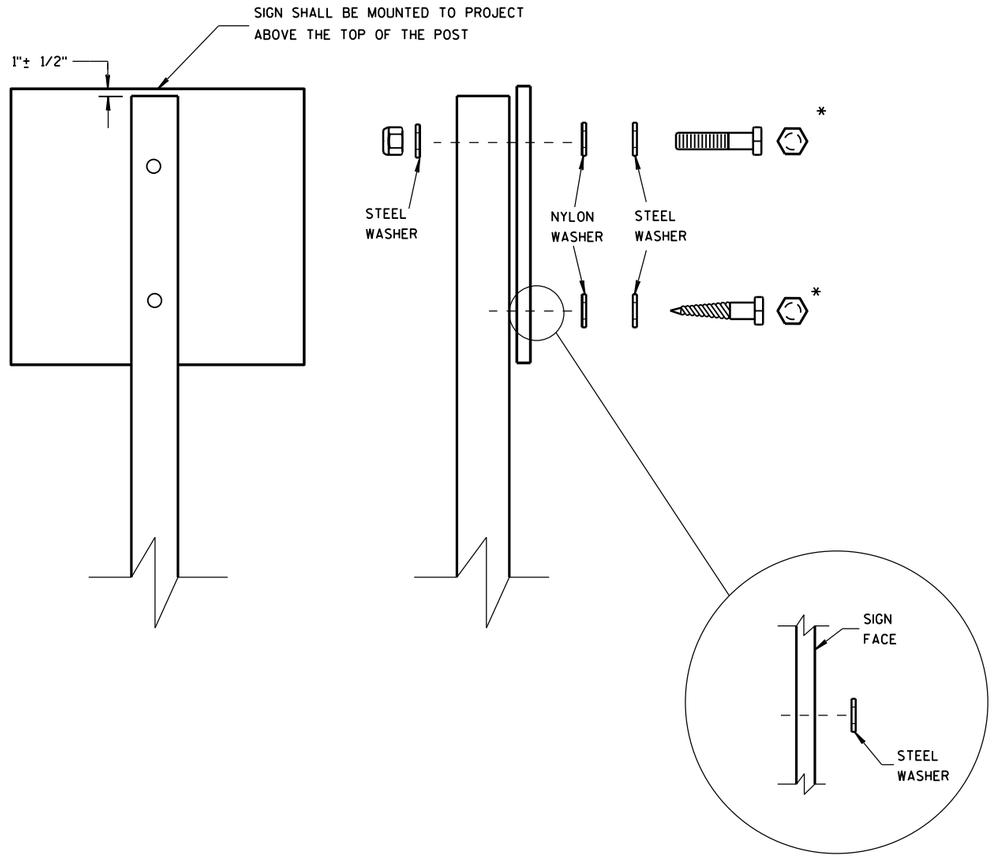
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

STATE OF WISCONSIN DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 38-1a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

S.D.D. 15 D 38-1b

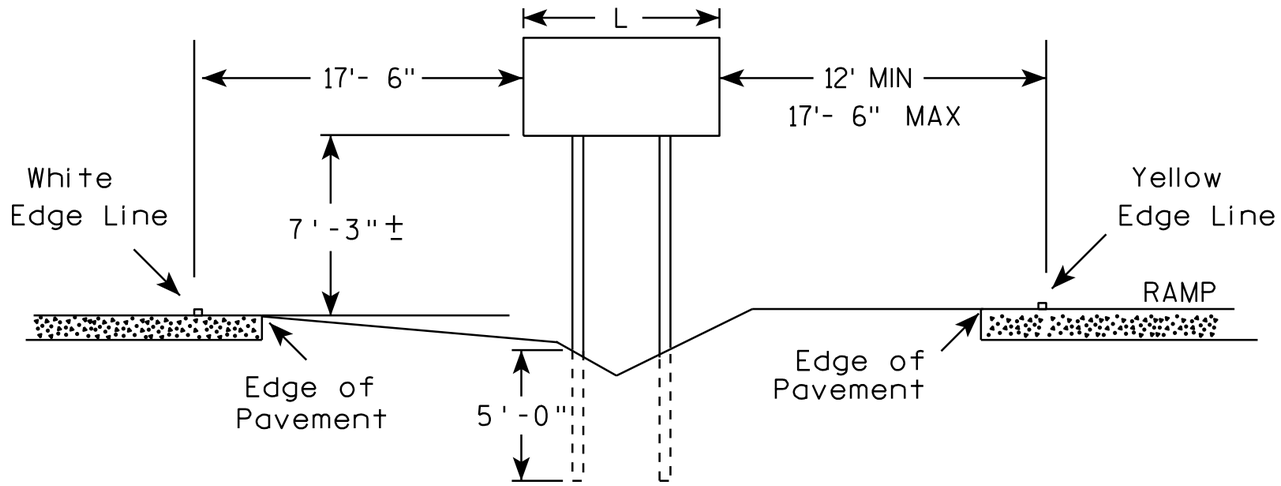
S.D.D. 15 D 38-1b

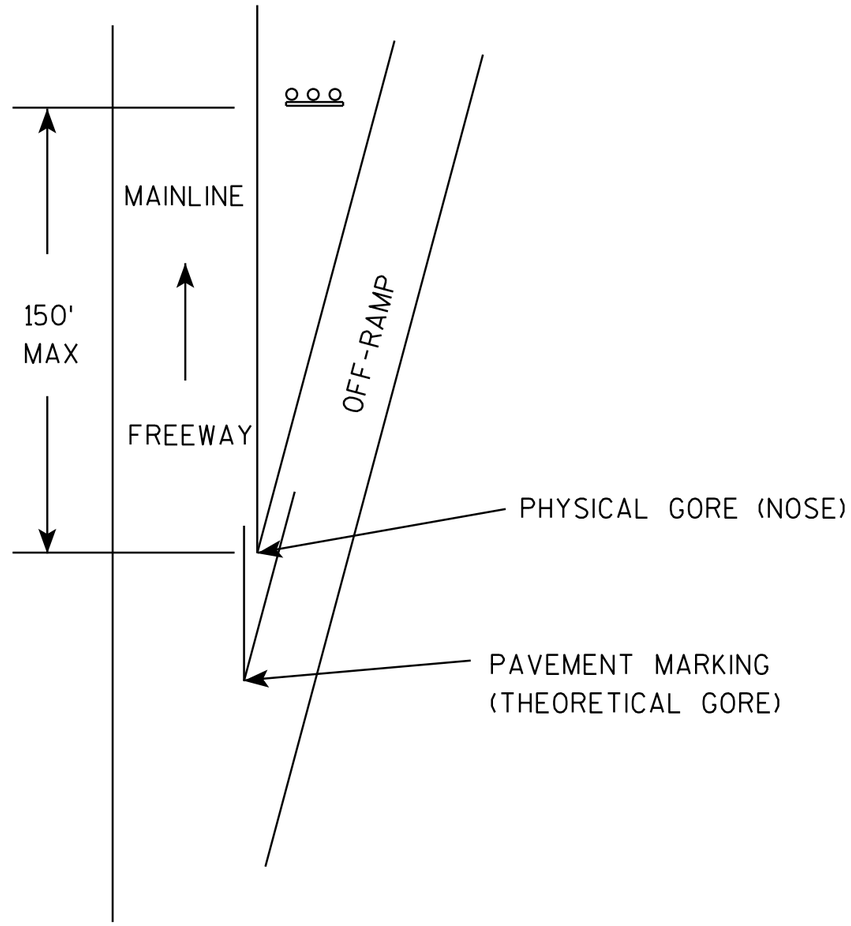
ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Feb. 2015 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

SIGN





GENERAL NOTES

1. The 150 foot distance from the physical gore (where pavement ends) will normally provide the offsets as shown.
2. If roadway geometrics permit, the sign may be closer than the 150 foot distance as long as the offsets are maintained.
3. At no time shall the location be greater than 150 feet. If the normal offsets cannot be maintained, they can be reduced to 6 feet from the edge of the paved shoulder (both freeway and ramp).
4. The offset from edge of sign to the yellow edge line on the ramp is shown as a minimum of 12 feet and a maximum of 17 feet, 6 inches. Preference is adhering to the maximum rather than the minimum dimension.
5. When L is equal to or exceeds 10 feet, use 3 posts as per A4-4.
6. The (∓) tolerance for the mounting height is 3 inches.

7

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TYPICAL INSTALLATION
OF TYPE II SIGNS ON
WOOD POSTS IN GORE

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

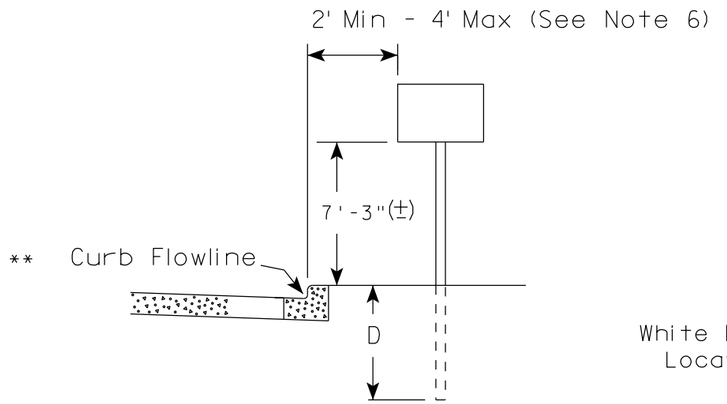
DATE 2/06/14 PLA... A4-2.3

PROJECT NO: | SHEET NO: E

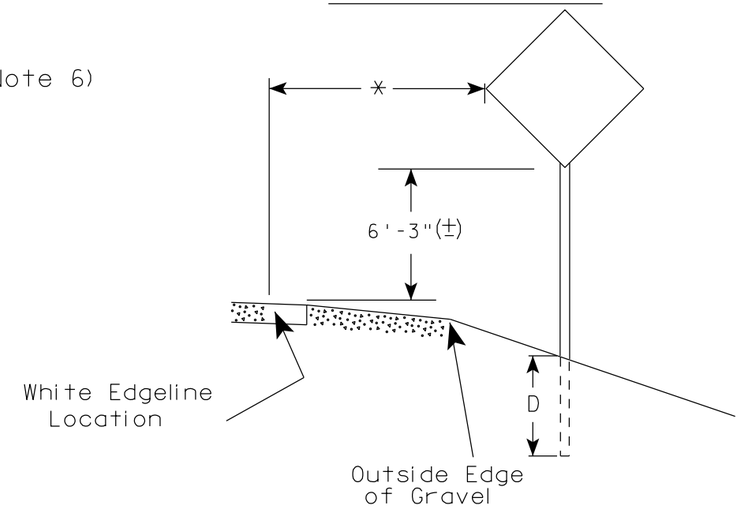
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A42.DGN PLOT DATE : 06-FEB-2014 12:36 PLOT BY : mscsja

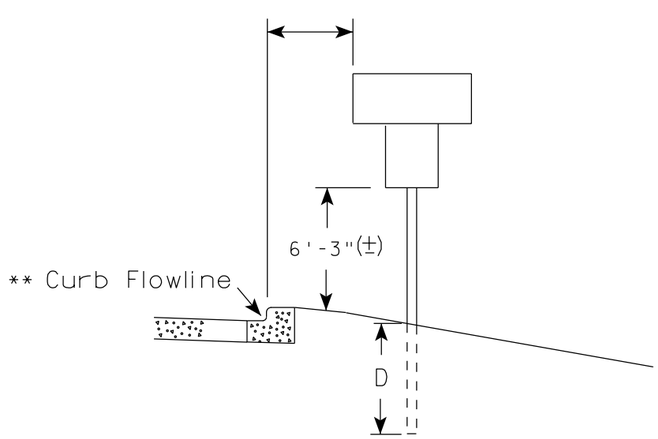
WISDOT/CADDS SHEET 42

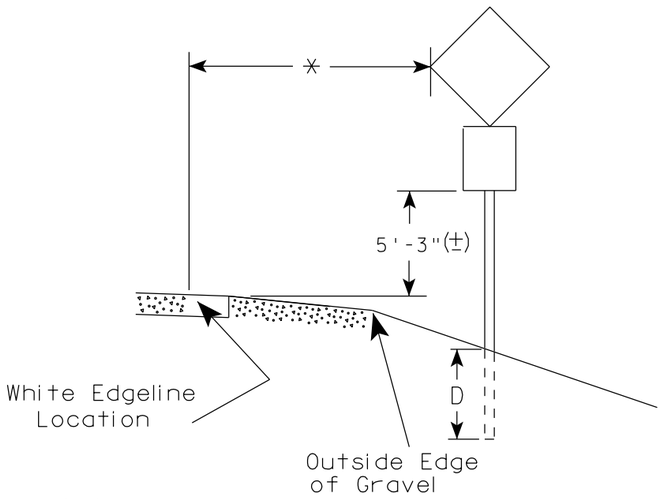
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

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

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

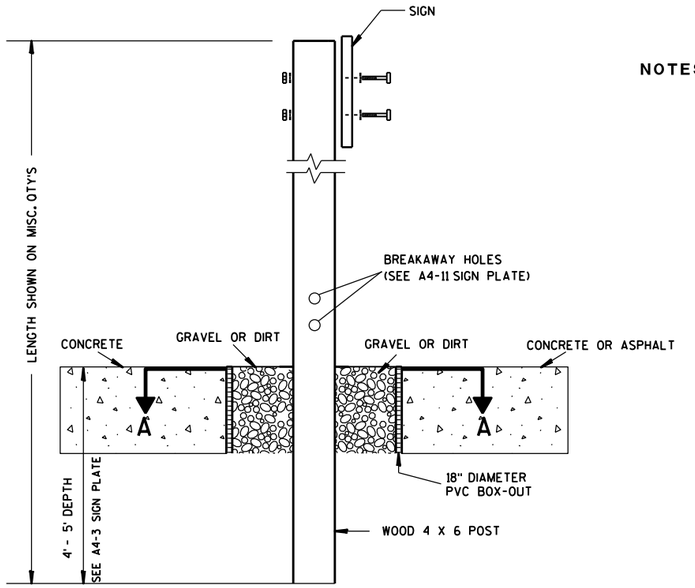
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20

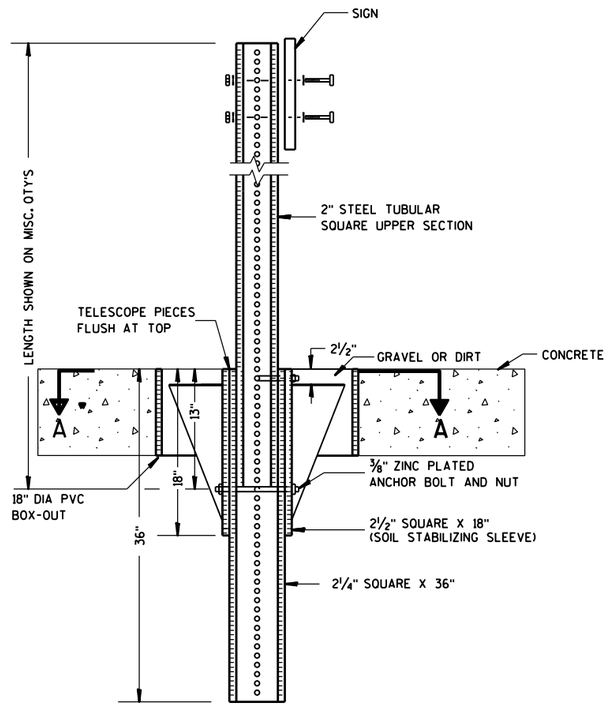
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



ELEVATION VIEW

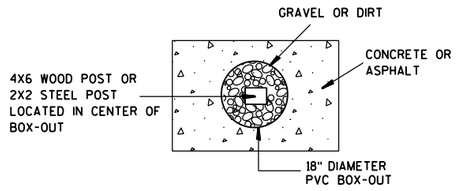
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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



ELEVATION VIEW

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



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

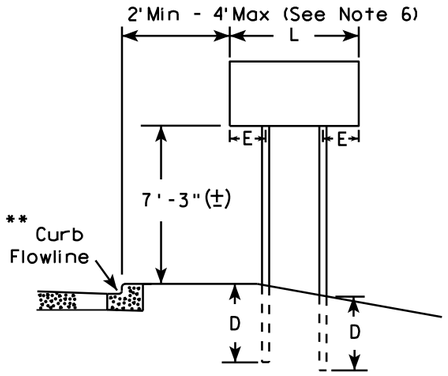
APPROVED Matthew R Rauch
for State Traffic Engineer

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

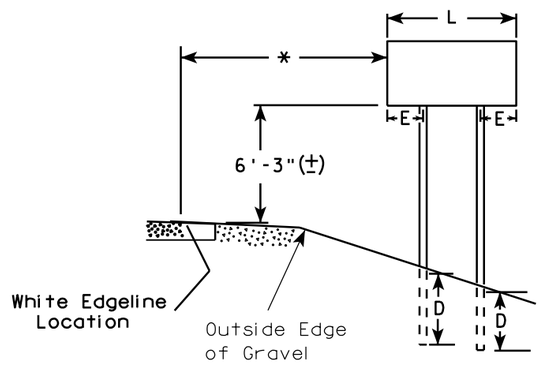
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

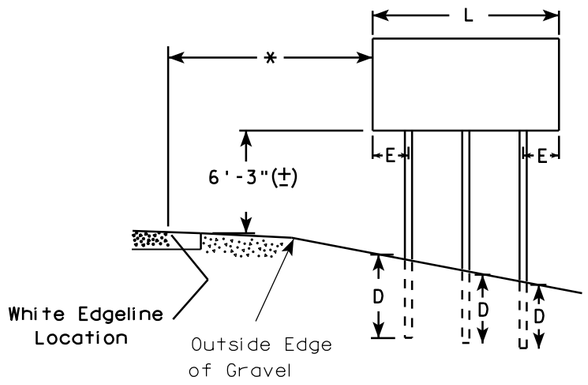
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

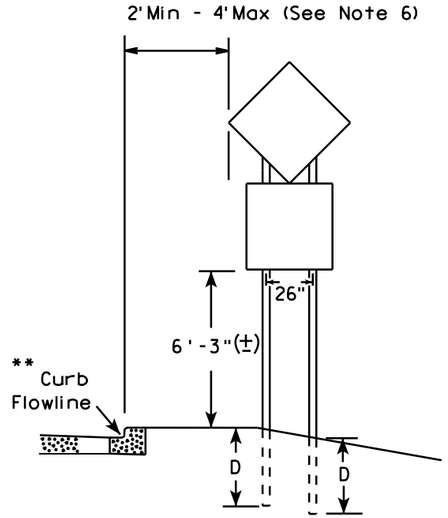
URBAN AREA



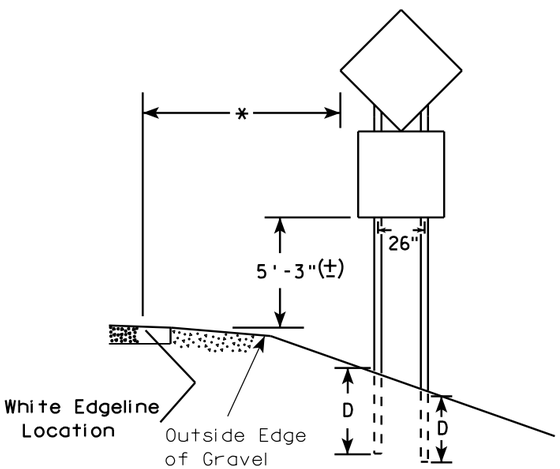
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 120"	L/5

***

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

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

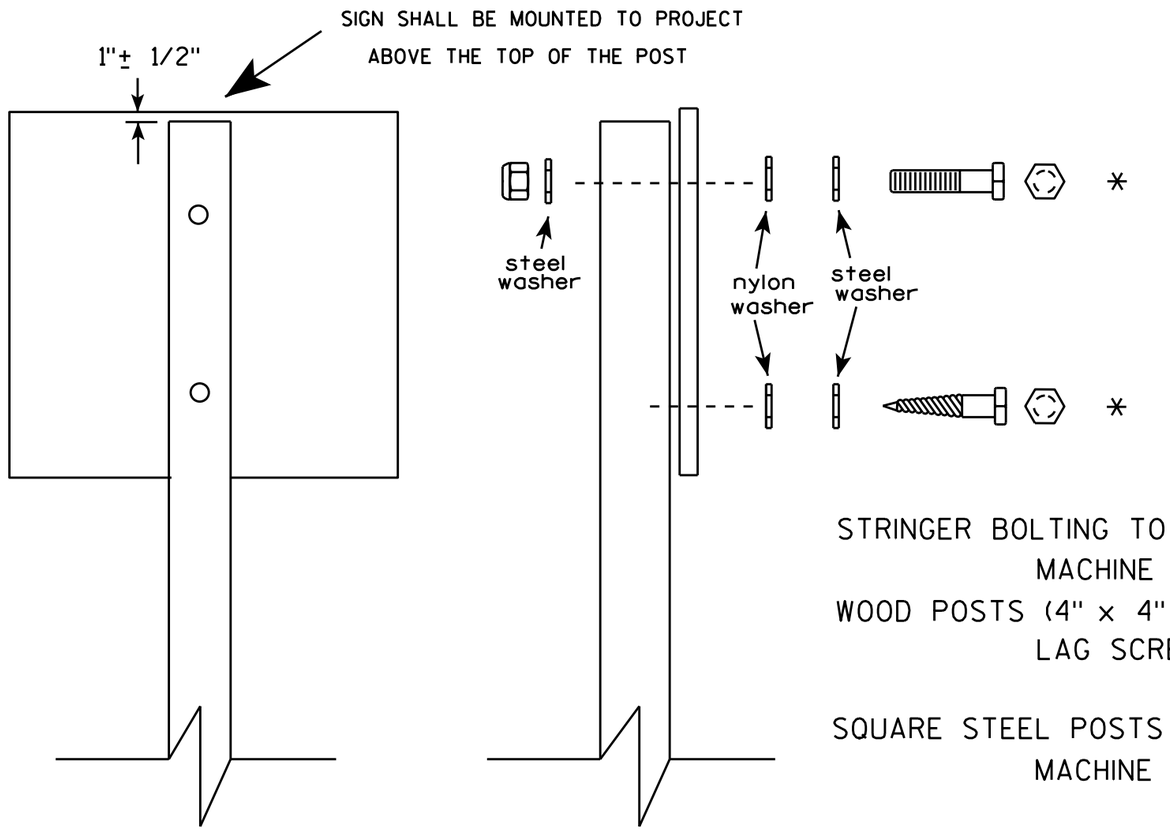
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-4 14

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
MACHINE BOLTS - 5/16" X 1-3/4" Length w/ nuts
WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)
SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

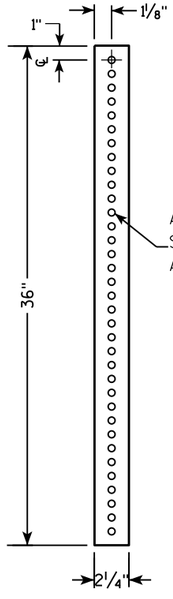
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/27/16 PLATE NO. A4-8.8

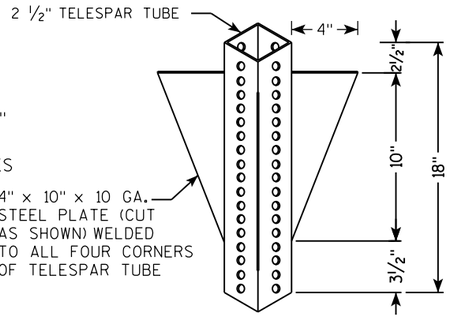
PROJECT NO: | SHEET NO: E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

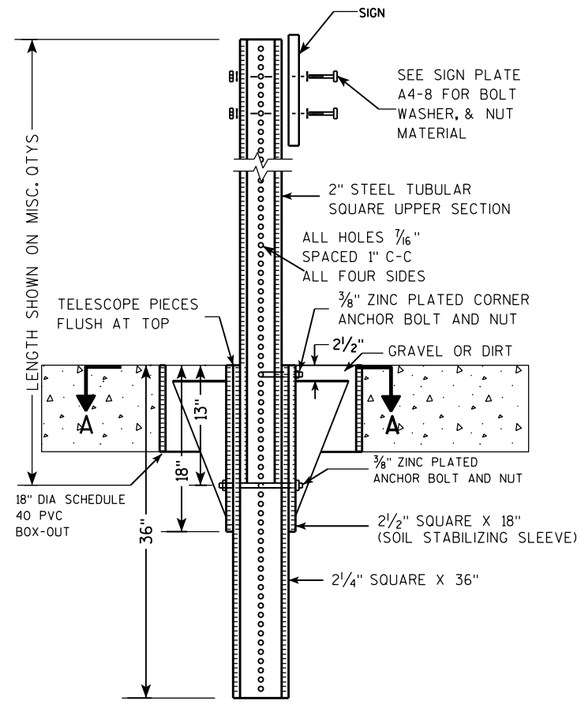
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



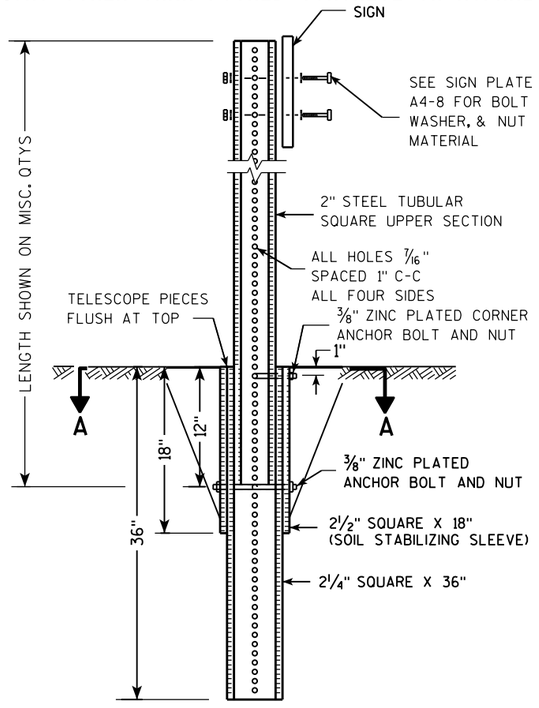
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

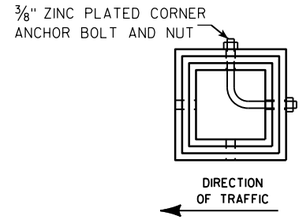


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

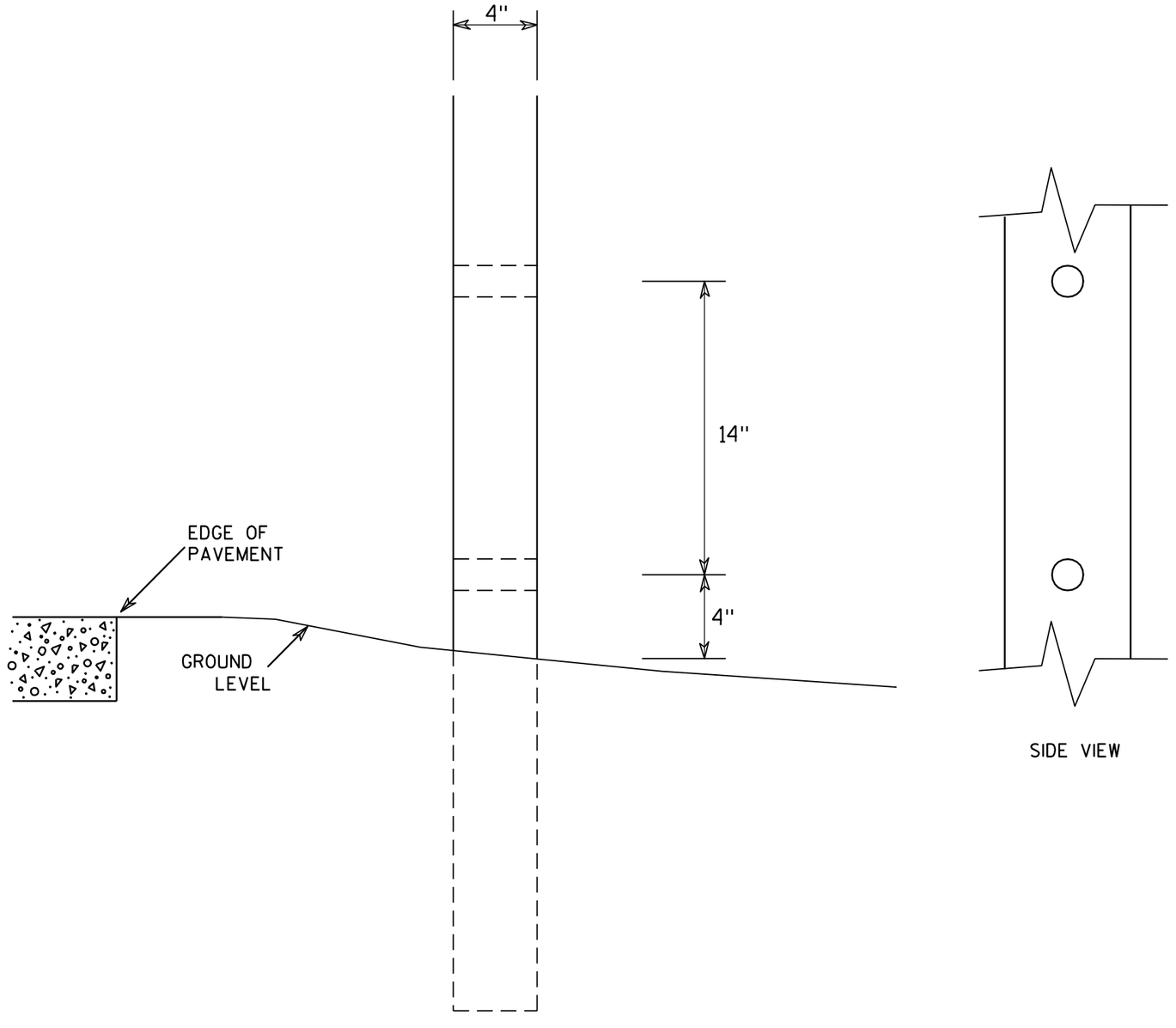
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

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

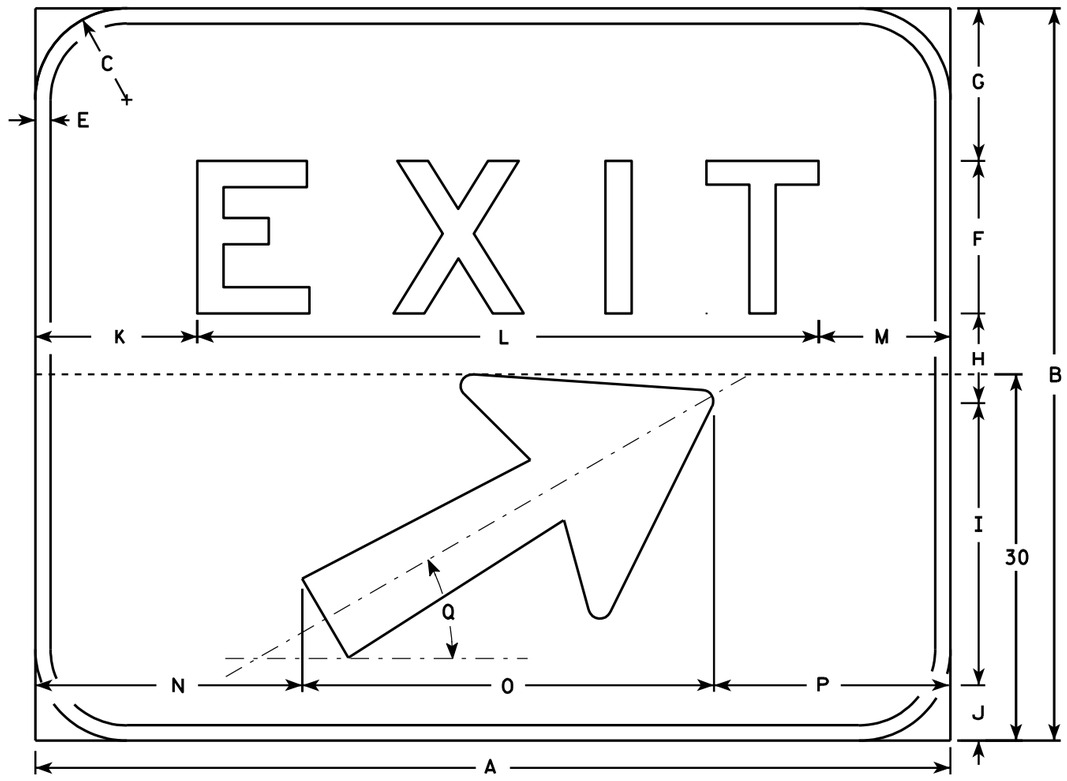
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 172	E



E5-1

NOTES

1. Sign is Type II - Type H reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White (Type H reflective)
3. Message Series - E
4. Corners may be square or rounded but borders shall be rounded as shown.
5. Base material for this sign shall be plywood and shall be split into two seperate pieces for the 72 x 60 size as shown on the detail by the dashed line (----------).
6. Arrow is Type "A" from sign plate A1-1.
7. As per the Standard Spec's, this sign shall not have a vertical joint.

Metric equivalent for this sign is:

SIZE	
1	
2	
3	
4	1500 mm X 1200 mm
5	1800 mm X 1500 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2																												
3																												
4	60	48	6		1	10	10	5 7/8	18 1/2	3 5/8	10 5/8	40 3/4	8 5/8	17 1/2	27	15 1/2	30°										20.0	1.80
5	72	60	6		1	12	12	10	18 1/2	7 1/2	13 1/4	48 1/2	10 1/4	23 1/2	27	21 1/2	30°										30.0	2.70

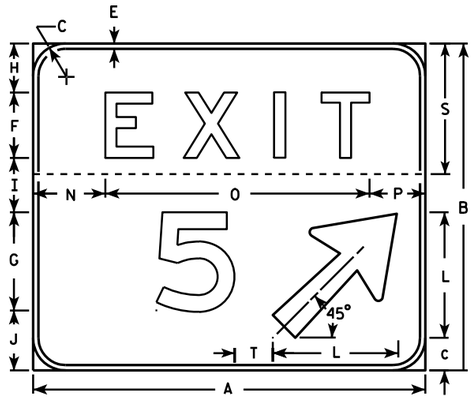
STANDARD SIGN
E5 - 1

WISCONSIN DEPT OF TRANSPORTATION

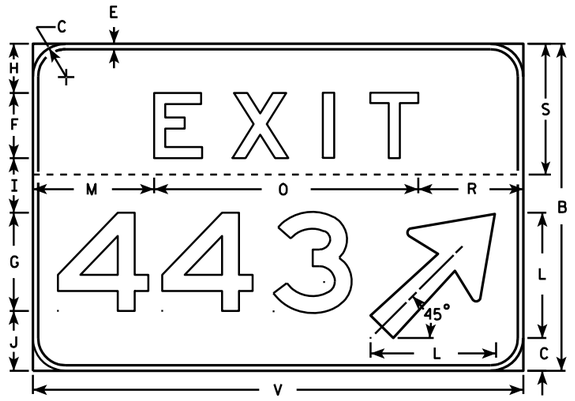
APPROVED Chester J Spang for State Traffic Engineer

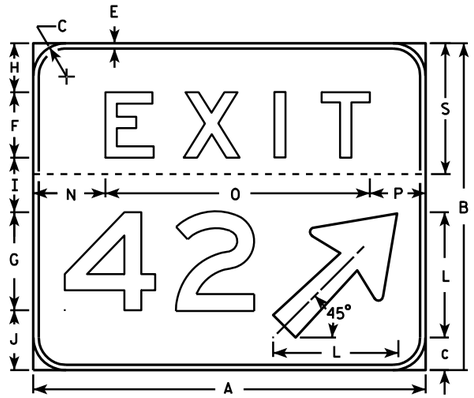
DATE 6/22/00 PLATE NO. E5-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 173	E



NOTE: T diminision shall be measured from the back of the number to the front of the arrow





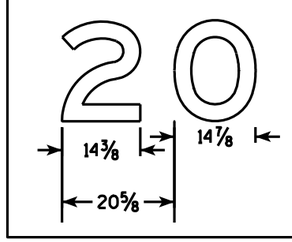
NOTES

1. Sign is Type II - Type H reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White (Type H reflective)
3. Message Series - E
4. Corners may be square or rounded but the border shall be rounded as shown.
5. Base material for this sign shall be plywood and shall be split into two seperate pieces as shown on each detail by the dashed line (----------).
6. Arrow is Type "A" from sign plate A1-1.
7. Substitute appropriate message, space per the table and adjust placement on sign to achieve proper balance.
8. As per the Standard Spec's, these signs shall not have a vertical joint.

SPACING CHART FOR 18" NUMERALS

NUMBERS	WIDTH	0	1	2	3	4	5	6	7	8	9	A	B	C
0	14 7/8	21 5/8	21 5/8	21 1/4	20 3/8	21 1/4	21 1/4	21 5/8	19 7/8	22 1/8	21 5/8			
1	5 7/8	14	14	14	13 1/8	12 1/8	14	14	12 1/4	14	14			
2	14 3/8	20 5/8	21 1/8	20 5/8	19 3/4	20 1/4	20 5/8	20 5/8	18 7/8	21 1/8	20 5/8			
3	14 3/8	20 3/4	21 1/8	20 3/4	20 1/4	19 3/4	20 3/4	20 3/4	19 3/8	21 1/8	20 3/4			
4	16 5/8	22 7/8	22	22 1/2	21 5/8	21 5/8	22 7/8	22 7/8	20 5/8	23 3/8	22 7/8			
5	14 1/4	20 5/8	20 5/8	20 1/8	18 3/4	18 3/4	20 5/8	20 5/8	18 3/8	20 5/8	20 5/8			
6	14 1/2	21 1/4	20 3/4	20 3/4	19 7/8	19 1/2	20 3/8	20 3/4	19	20 3/4	20 3/8			
7	14 3/8	19 3/4	19 3/4	20 1/4	19 3/4	17	19 3/4	20 5/8	18 7/8	20 5/8	19 3/4			
8	14 1/4	21 1/2	21 1/2	20 5/8	19 1/4	19 3/4	20 5/8	21 1/2	19 5/8	21 1/2	20 5/8			
9	14 1/2	21 1/4	21 1/4	20 7/8	20	20 7/8	20 7/8	21 1/4	19 1/2	21 3/4	21 1/4			
A	18	19 3/4	19 3/4	20 1/4	19 3/4	17	19 3/4	20 5/8	18 7/8	20 5/8	19 3/4	21 5/8	23 7/8	23
B	14 1/4	21 1/2	21 1/2	20 5/8	19 1/4	19 3/4	20 5/8	21 1/2	19 5/8	21 1/2	20 5/8	19 1/2	22 3/8	21 1/2
C	14 1/4	21 1/4	21 1/4	20 7/8	20	20 7/8	20 7/8	21 1/4	19 1/2	21 3/4	21 1/4	18 3/8	21	19 3/4

EXAMPLE FOR USING SPACING CHART



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
2																										
3																										
4																										
5	72	60	6		1	12	18	9	10	11	8 7/8	23	22 1/4	13 1/4	48 1/2	10 1/4		19 1/4	24	7		90		96	7 1/2	

1-2 Digit Bid Area	3 Digit Bid Area
Sq. Ft.	
30	37.5

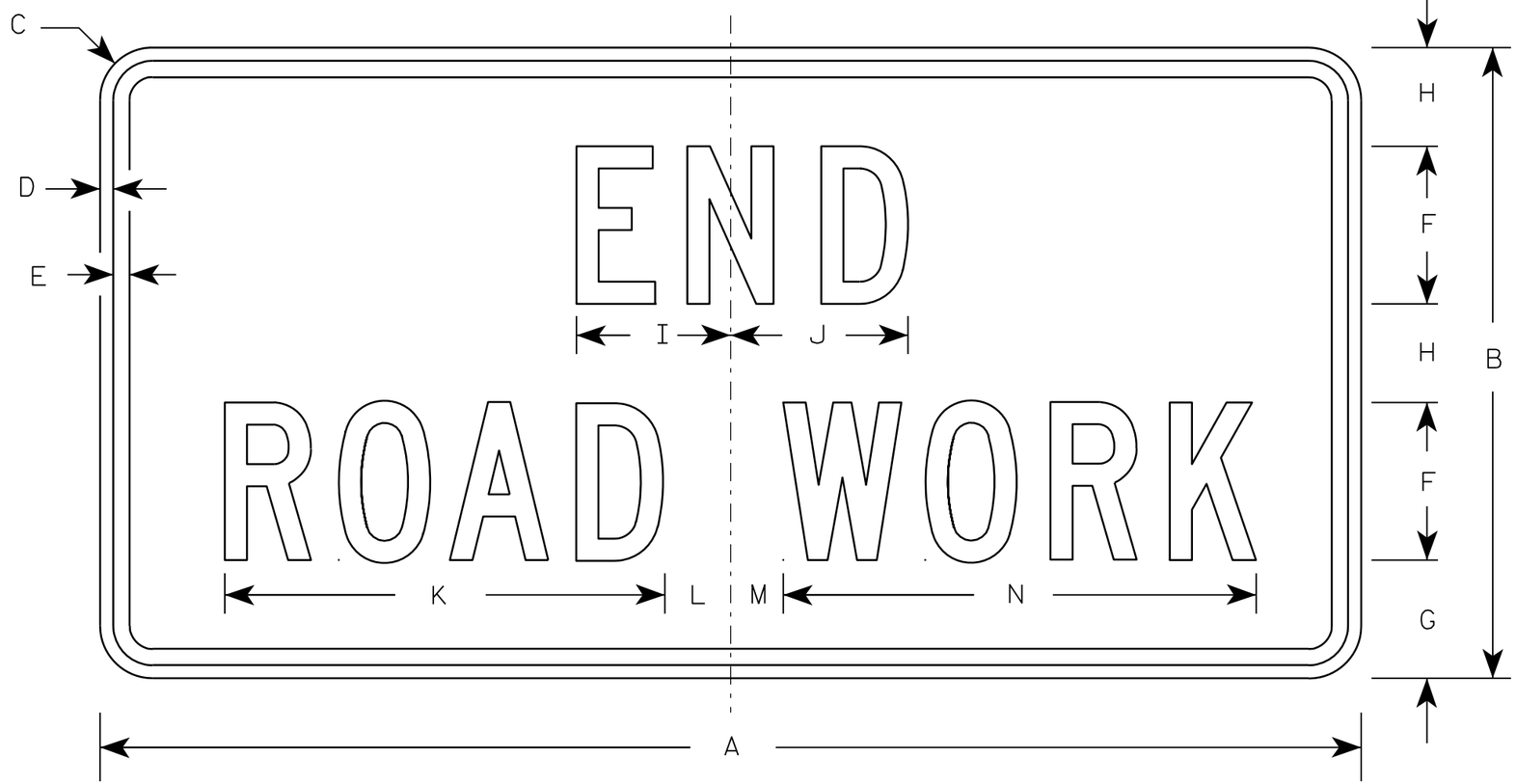
STANDARD SIGN
E5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/11/10 PLATE NO. E5-1A.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 174 | E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

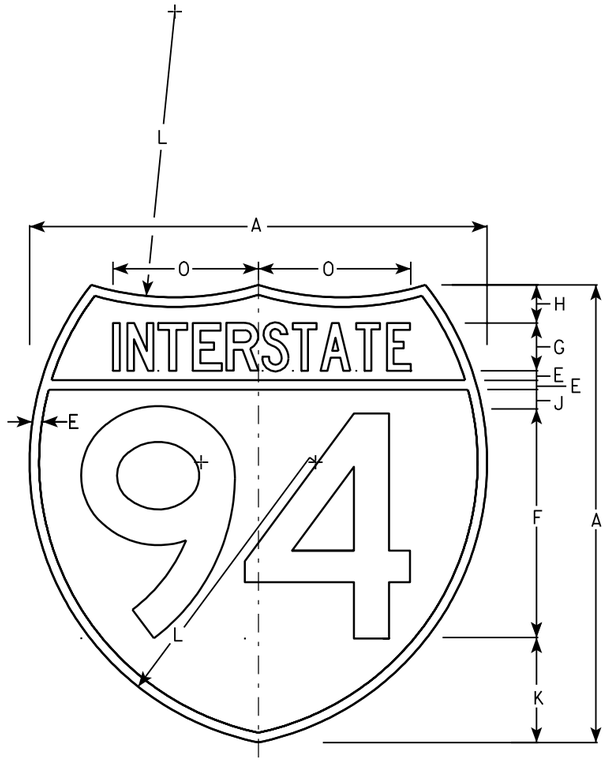
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

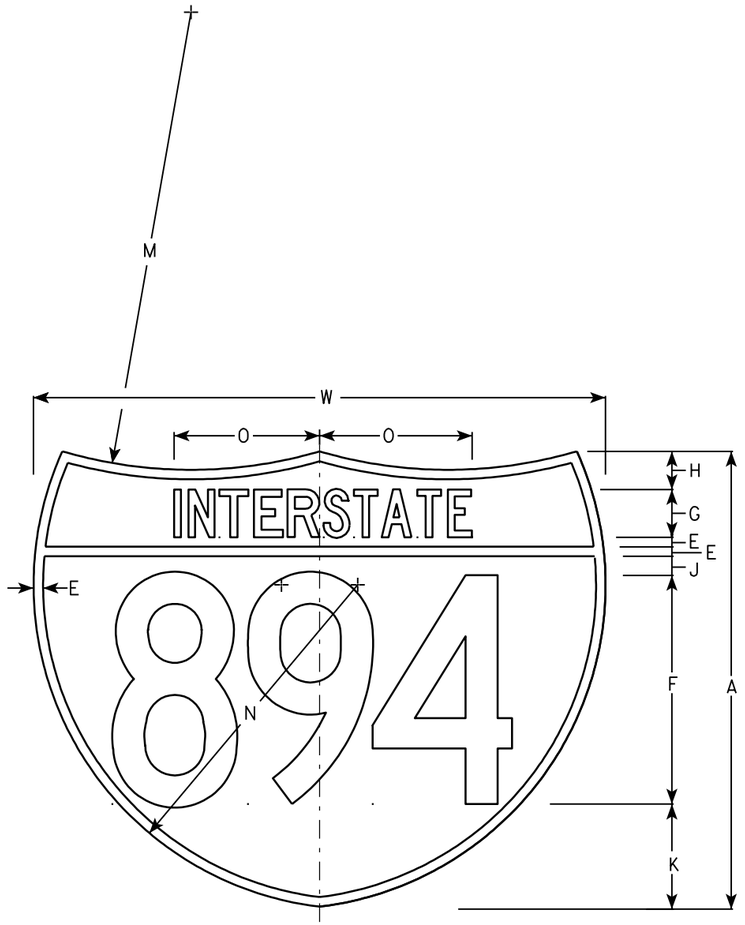
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 175	E



M1-1



M1-1A

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Top Red - Bottom Blue (See Note 6)
   Message - White - See Note 6
3. Message Series - See note 5
4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
5. M1-1 - Numerals - D
   Interstate - C
   M1-1A - All copy - C
6. Permanent Signs
   Message - Type H Reflective
   Detour or other temporary signs
   Background - Reflective
   Message - Reflective

7

7

Metric equivalent for these signs are:

SIZE	M1-1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	M1-1 Area sq. ft.	M1-1A Area sq. ft.	M1-1 Area m2	M1-1A Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91	.36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05

INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

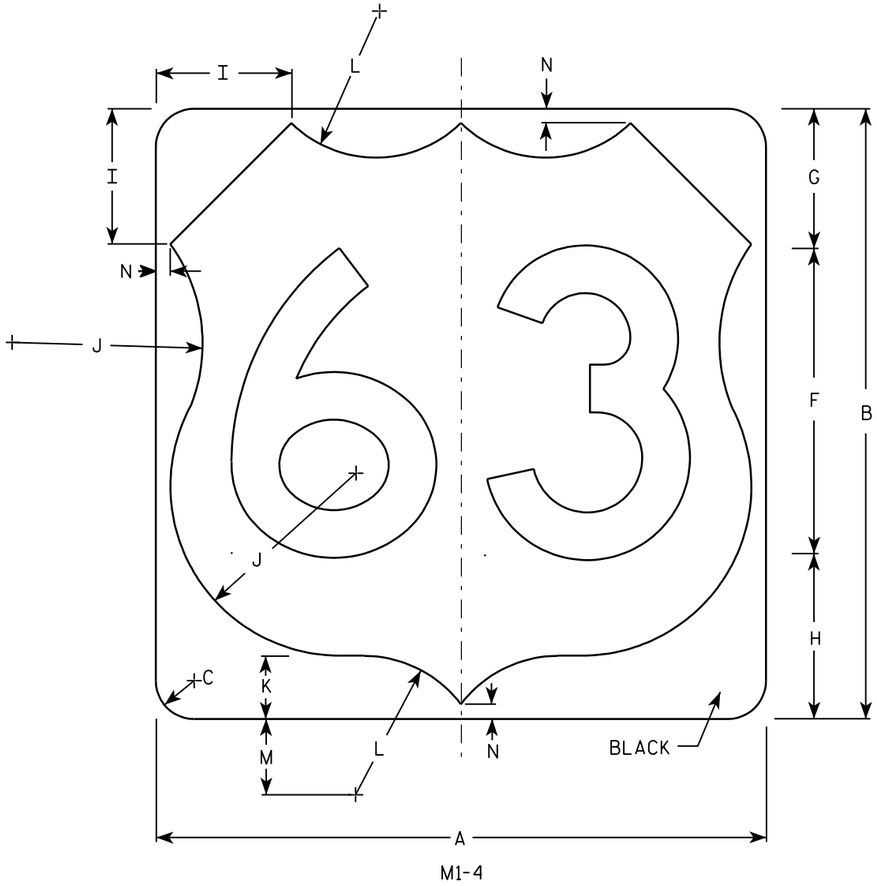
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/23/05 PLATE NO. M1-1.8

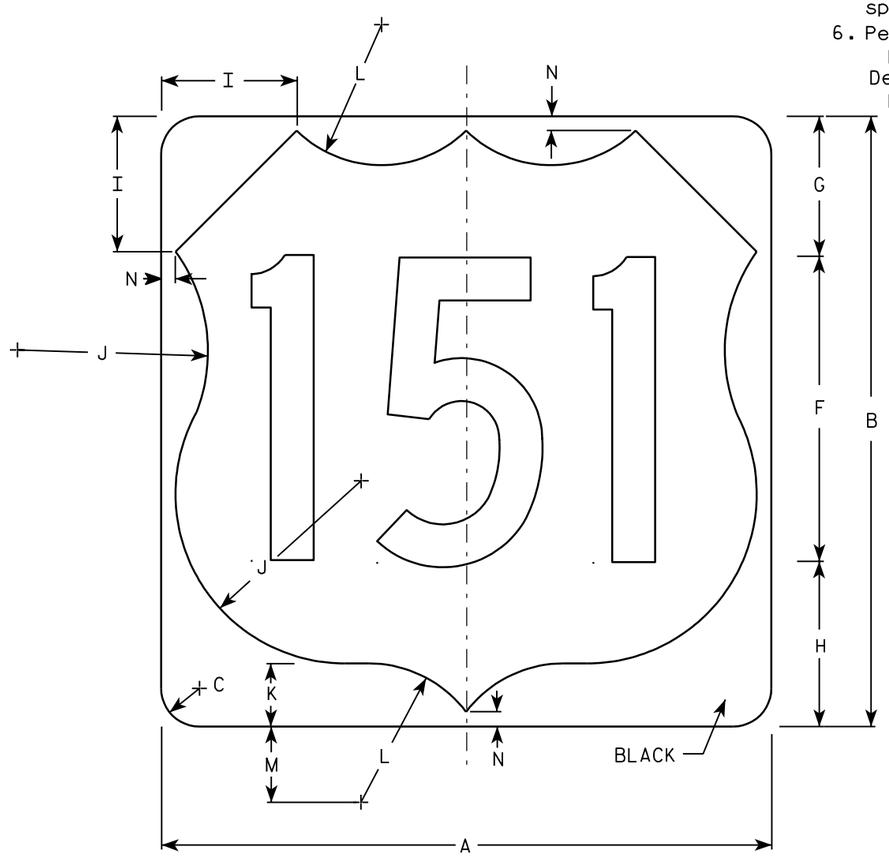
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 176	E

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and adjust spacing as per Plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or other temporary signs
   Background - Reflective



M1-4



M1-4

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0	.36
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81

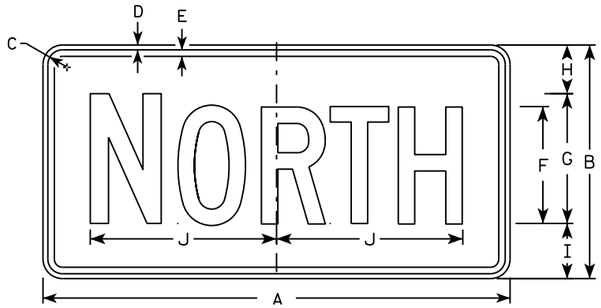
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

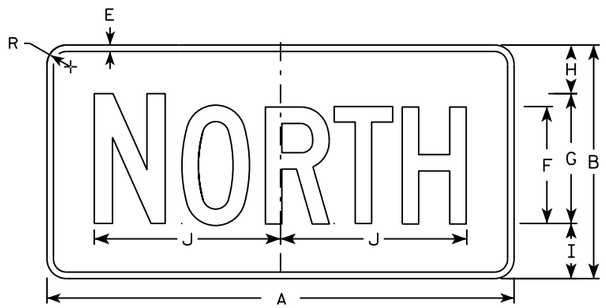
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/25/05 PLATE NO. M1-4.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 177 | E



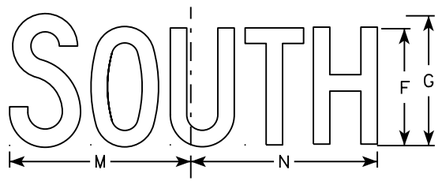
M3-1
MM3-1
MP3-1



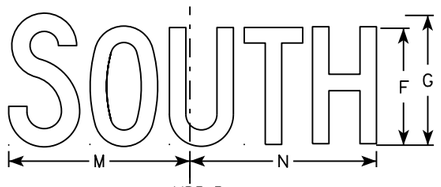
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

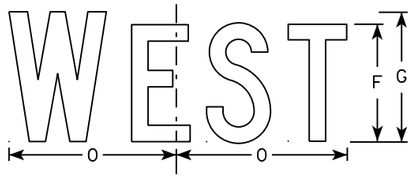
MB3-2
MK3-2
MN3-2



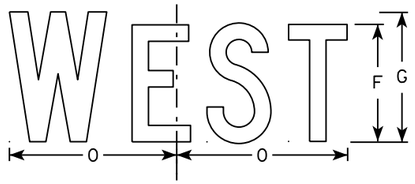
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

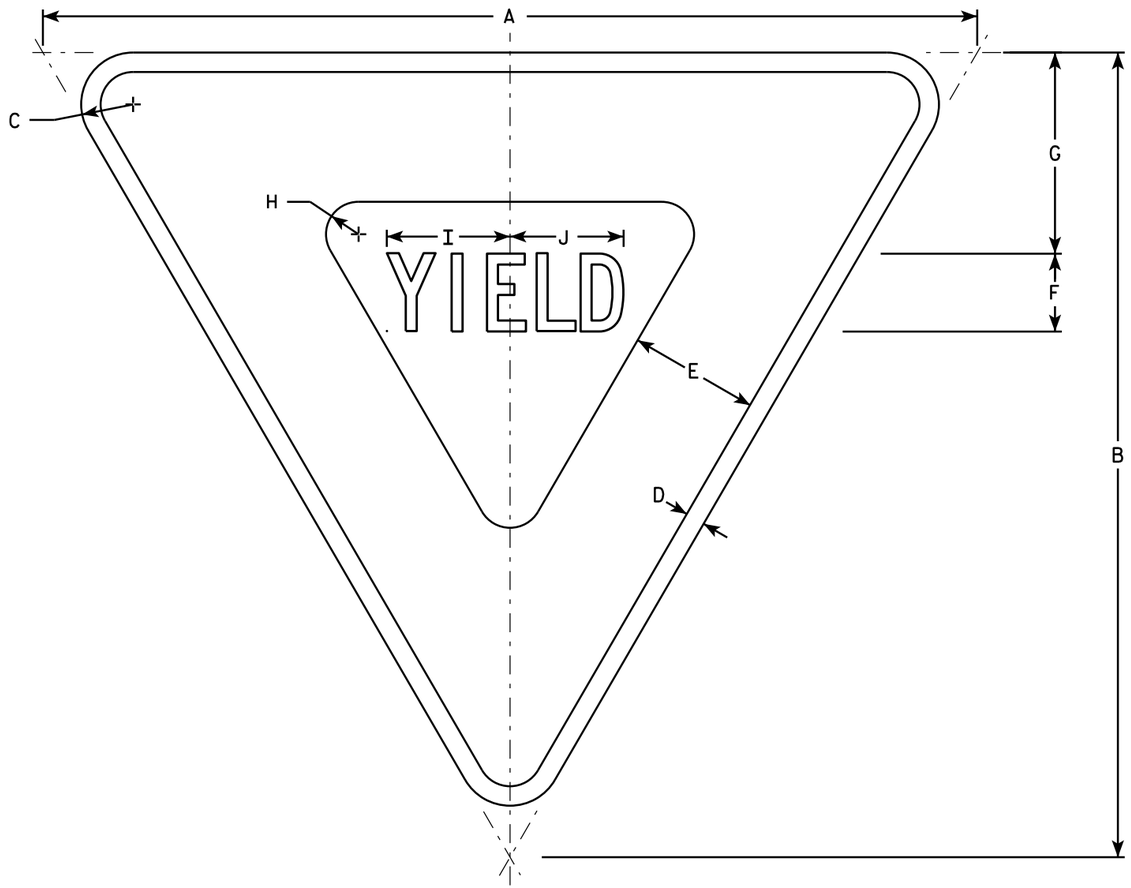
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO M3-1.14

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

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

WISCONSIN DEPT OF TRANSPORTATION

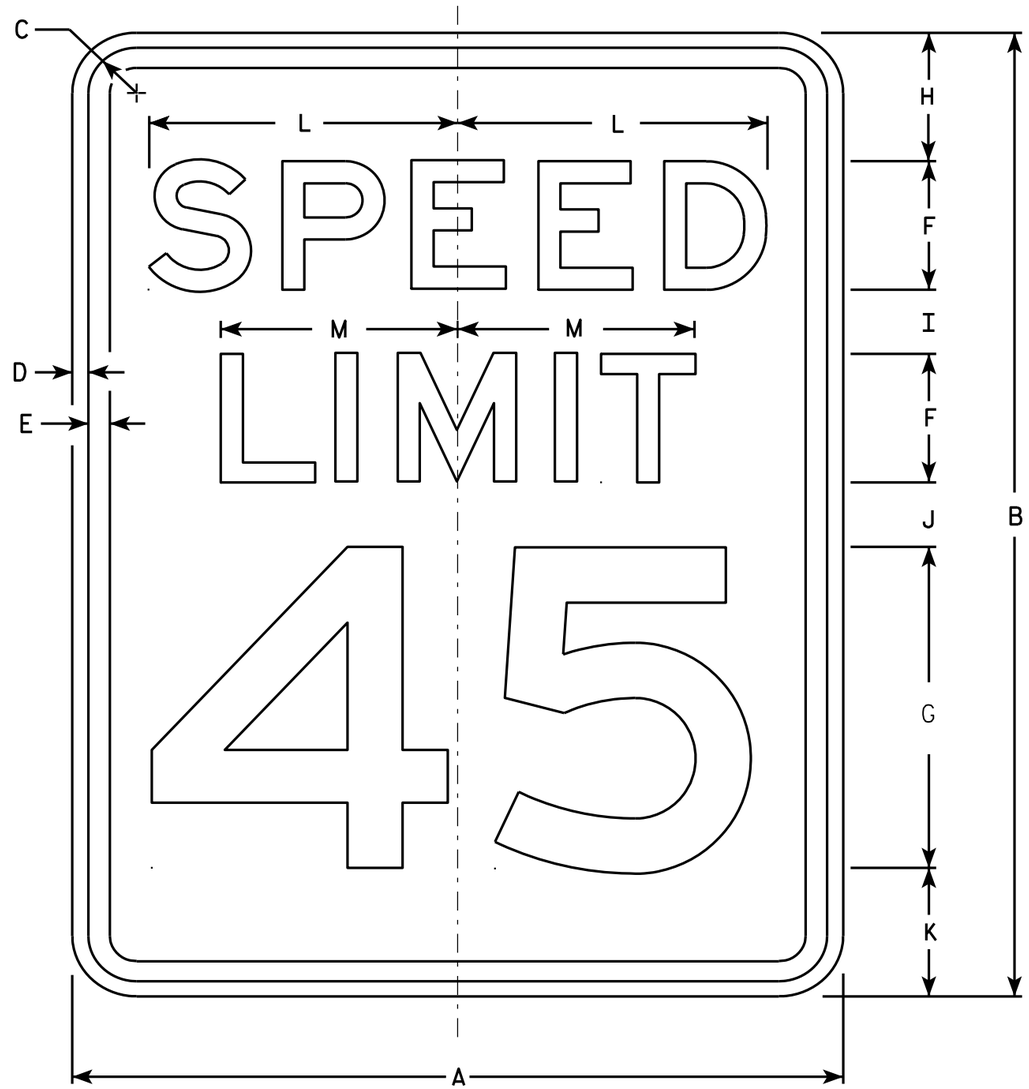
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE R1-2.12

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

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R12.DGN PLOT DATE : 13-OCT-2014 15:12 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000

WISDOT/CADDS SHEET 42



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

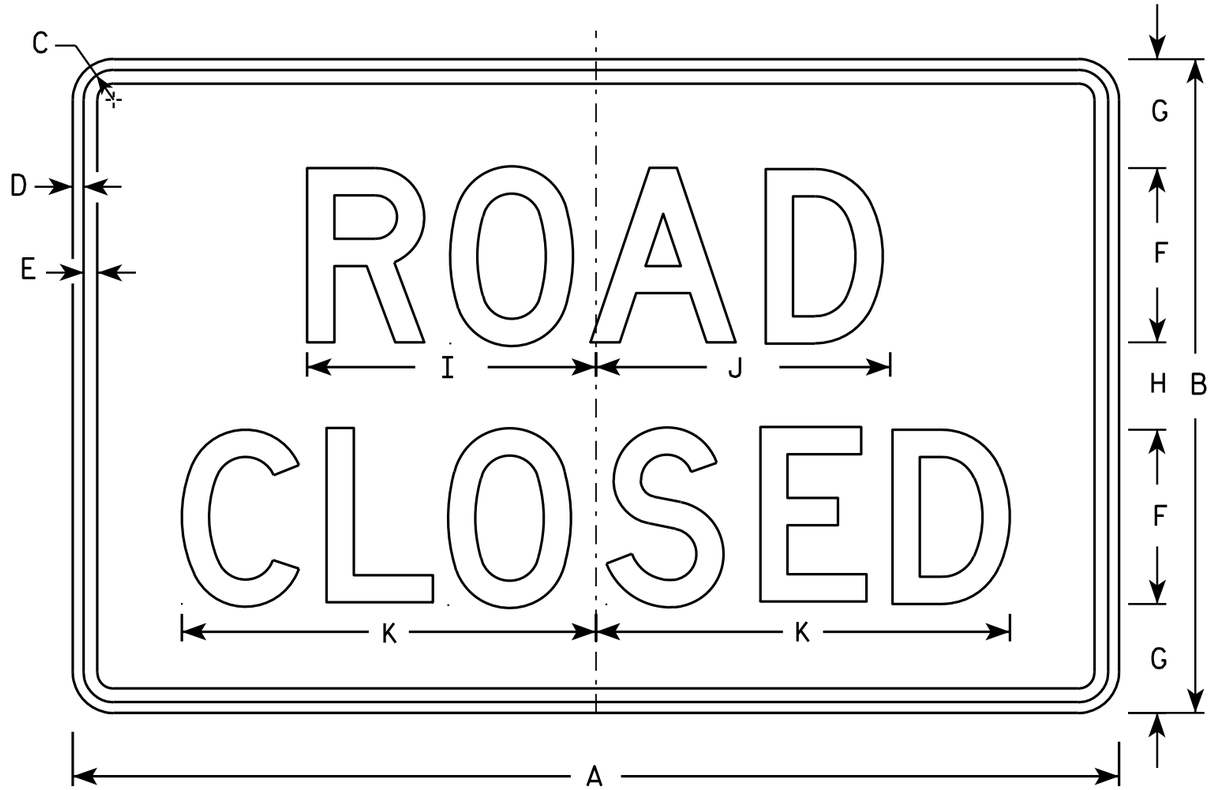
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

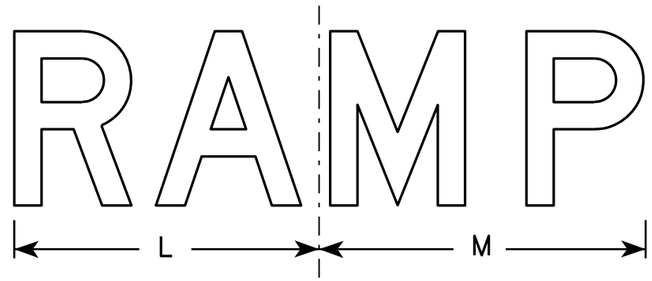
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 180	E



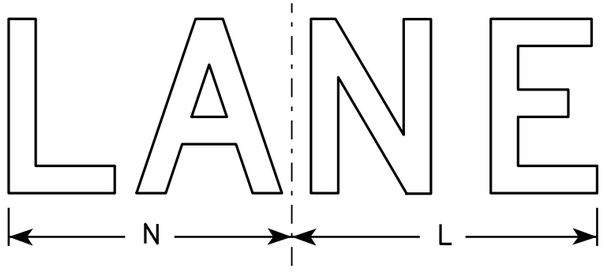
R11-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

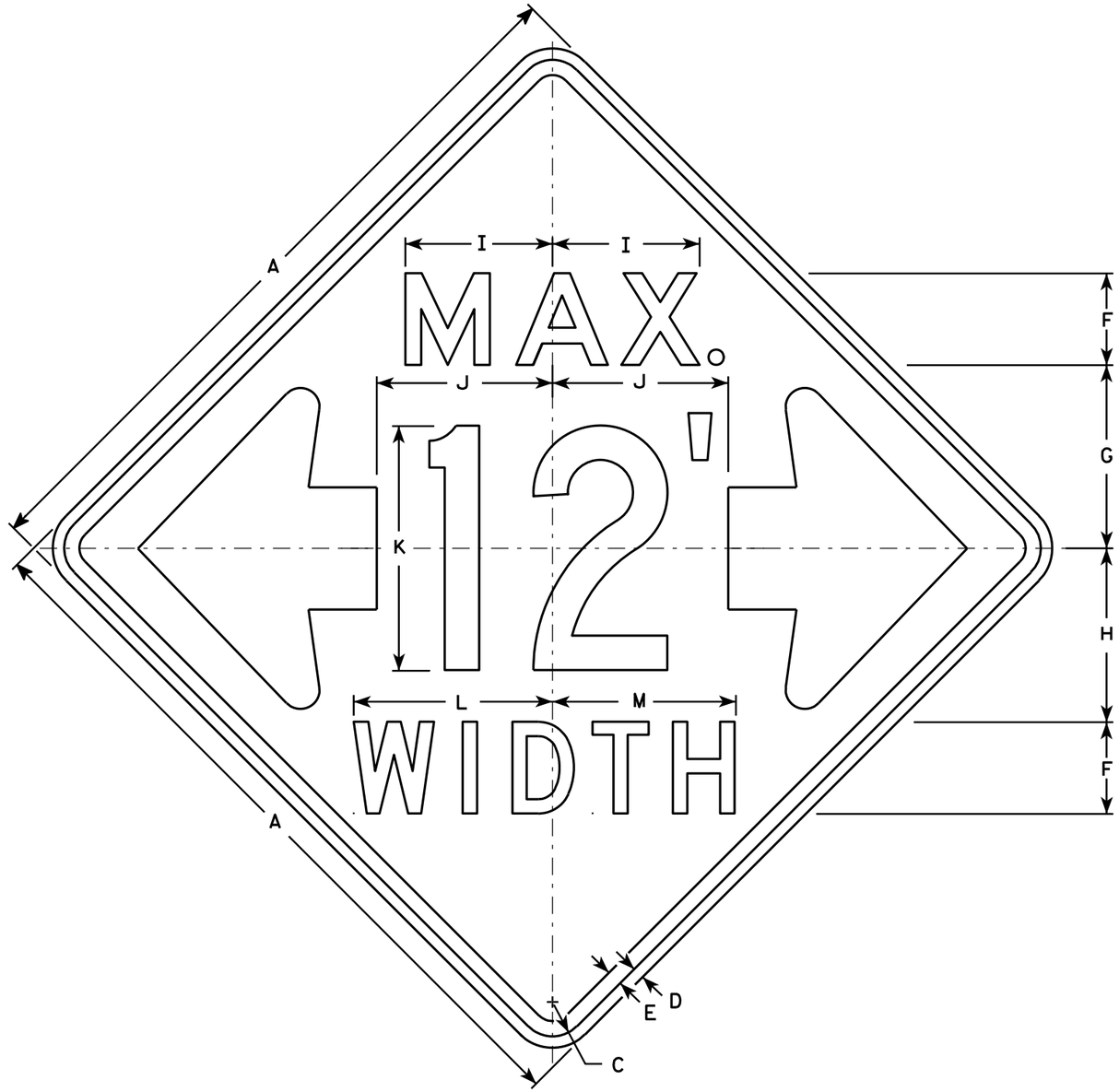
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

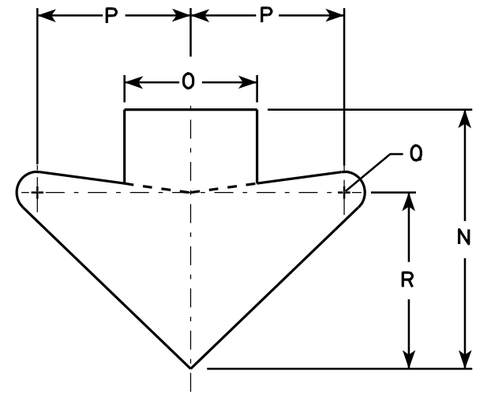
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 181 | E



W12-52

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The top line is series E, the numerals are series C, and the bottom line is series D.
6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
3																											
4																											
5																											

STANDARD SIGN
W12-52

WISCONSIN DEPT OF TRANSPORTATION

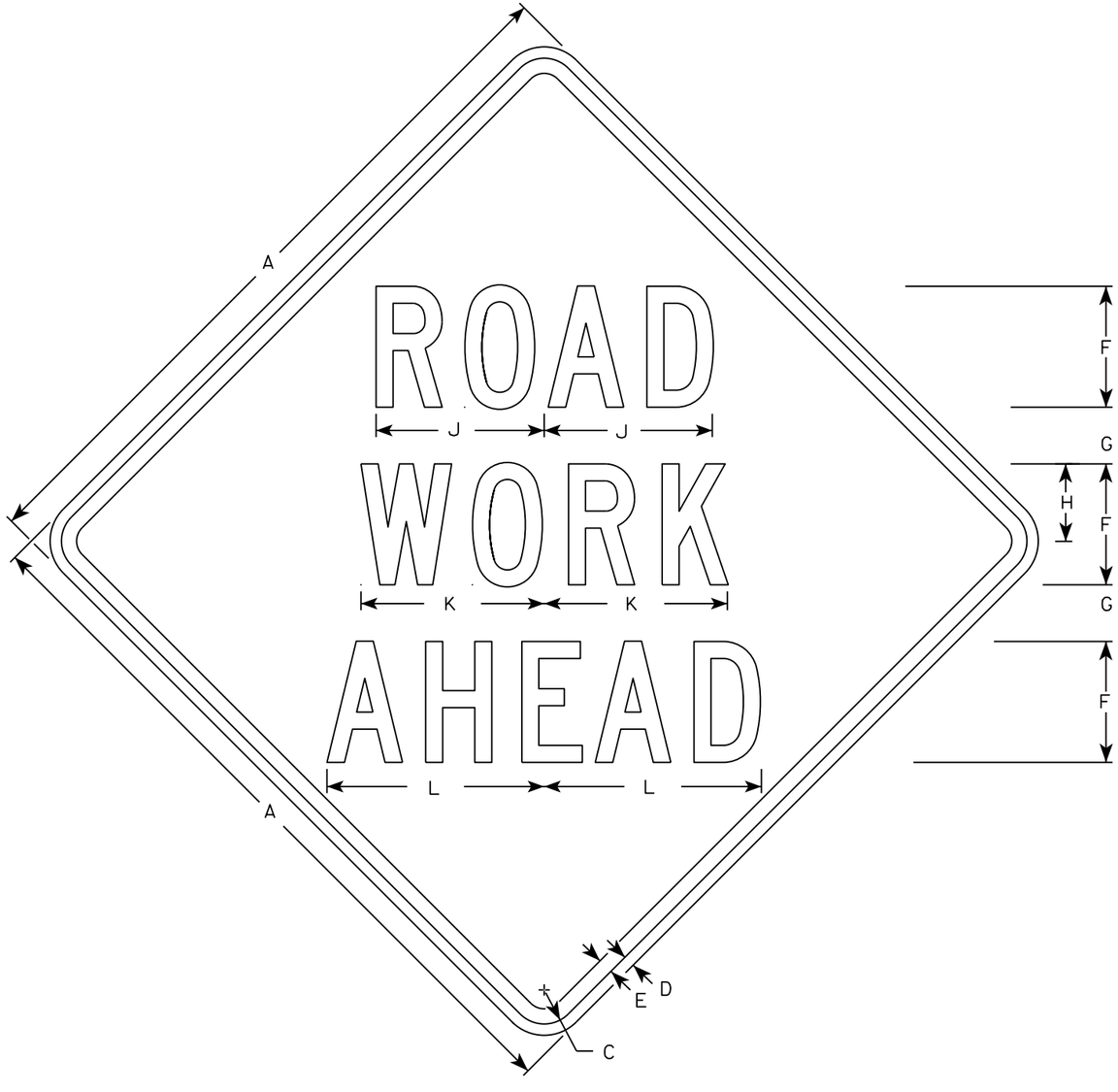
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

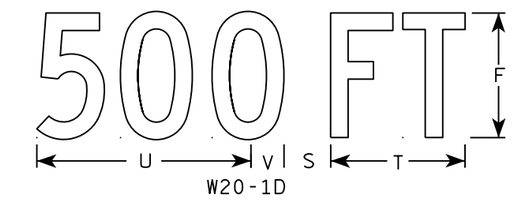
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 182 | E

7

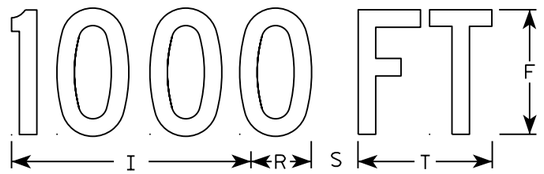
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W1252.DGN PLOT DATE : 16-MAR-2011 14:45 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.137199:1.000000
WISDOT/CADDS SHEET 42



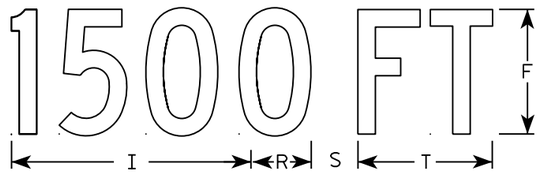
W20-1A



W20-1D

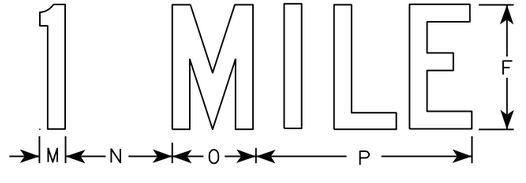


W20-1C

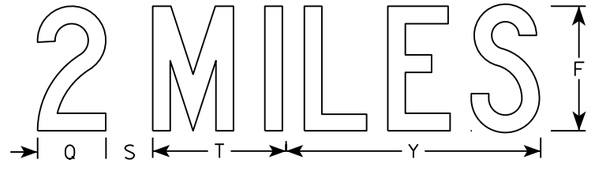


W20-1B

W20-1G



W20-1F



W20-1E

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

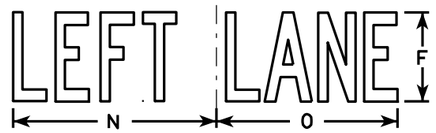
DATE 5/07/15 PLATE NO. W20-1.10

PROJECT NO:

SHEET NO: E

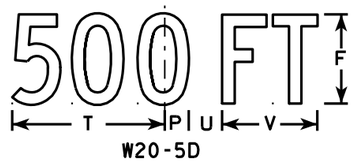
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$

W20-56A

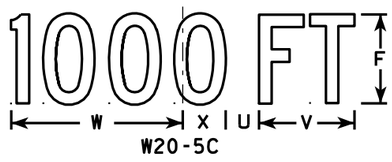


W20-55A

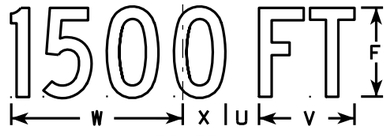
W20-5A



W20-5D



W20-5C



W20-5B

W20-5G

W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5	1/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

STANDARD SIGN
W20-5A, B, C, D, F & G

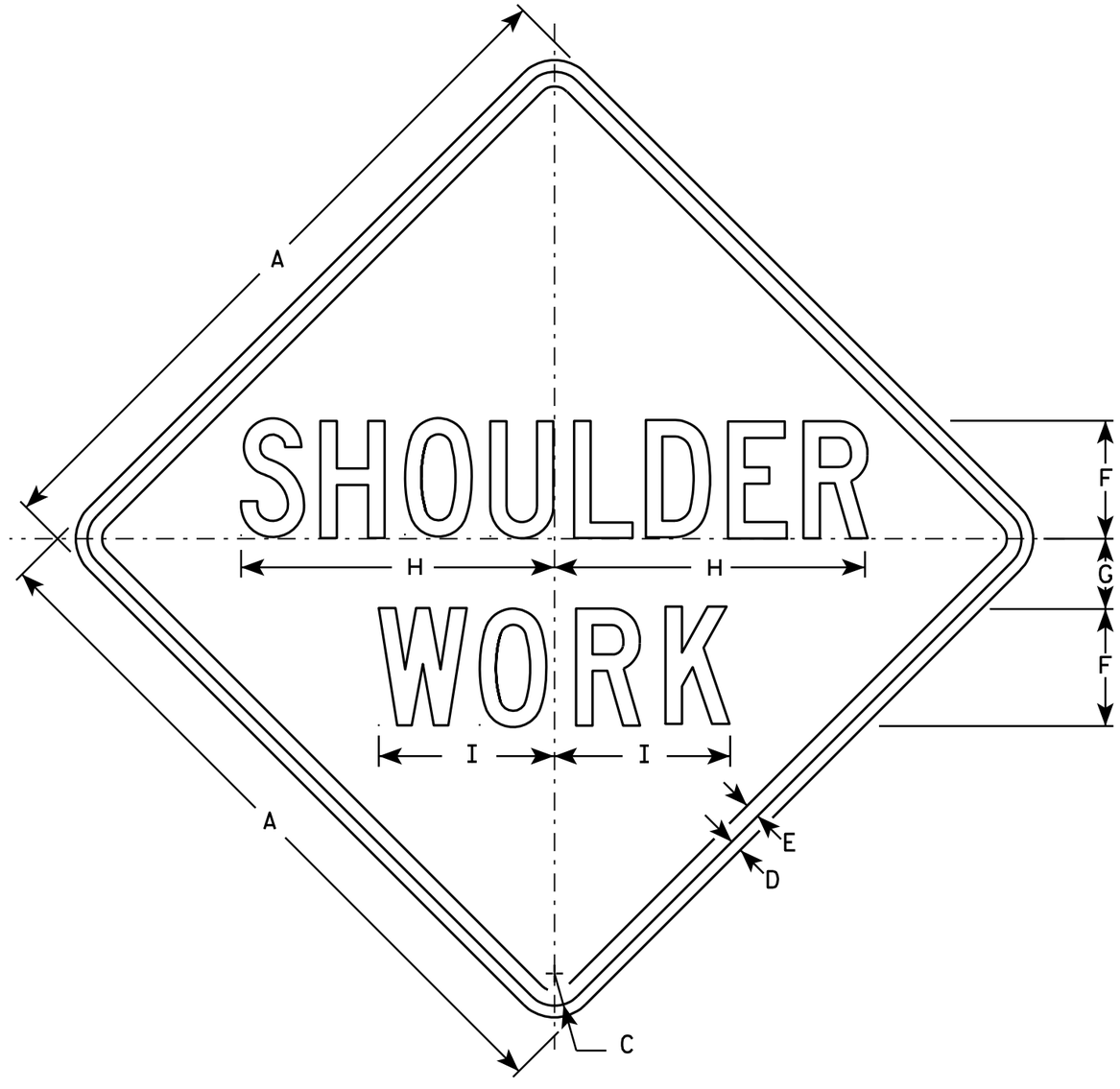
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 184 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000
WISDOT/CADDS SHEET 42



W21-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	4	2 1/2	10 3/4	6																		4.0
2S	30		1 3/8	1/2	5/8	5	3	13 3/8	7 1/2																		6.25
2M	30		1 3/8	1/2	5/8	5	3	13 3/8	7 1/2																		6.25
3	36		1 5/8	5/8	3/4	6	3 1/2	16	9																		9.0
4	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0
5	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0

STANDARD SIGN
W21-5

WISCONSIN DEPT OF TRANSPORTATION

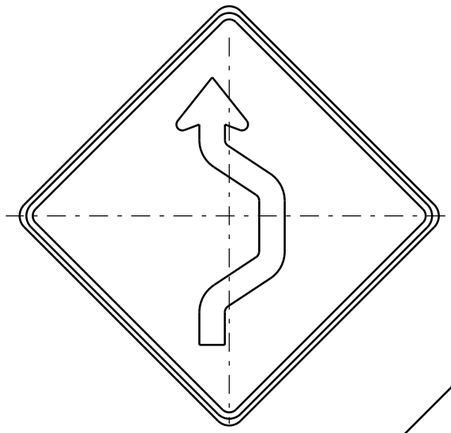
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/11 PLATE NO. W21-5.5

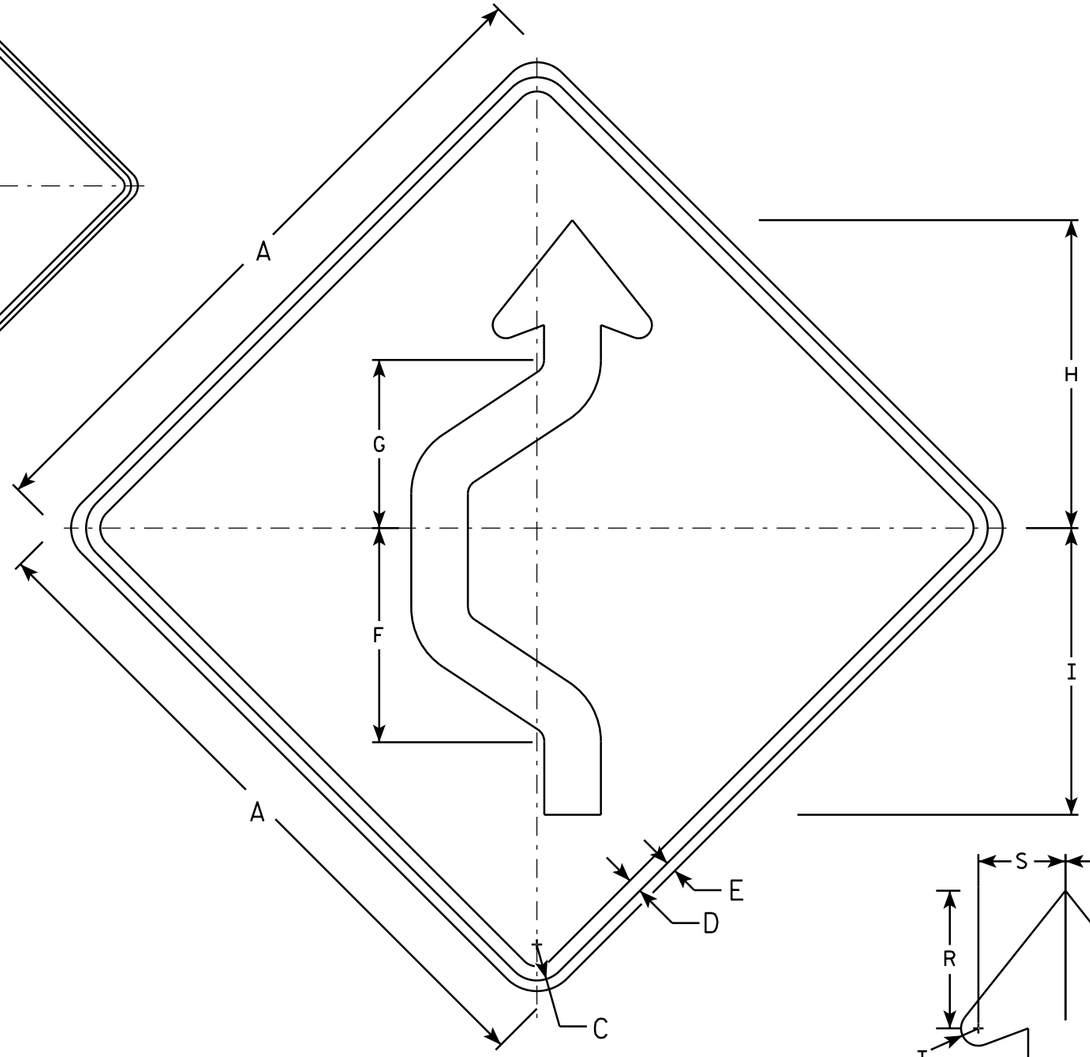
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 185 | E

7

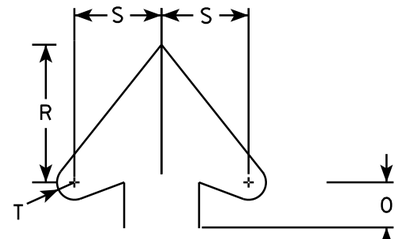
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W215.DGN PLOT DATE : 21-MAR-2011 08:01 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.207338:1.000000



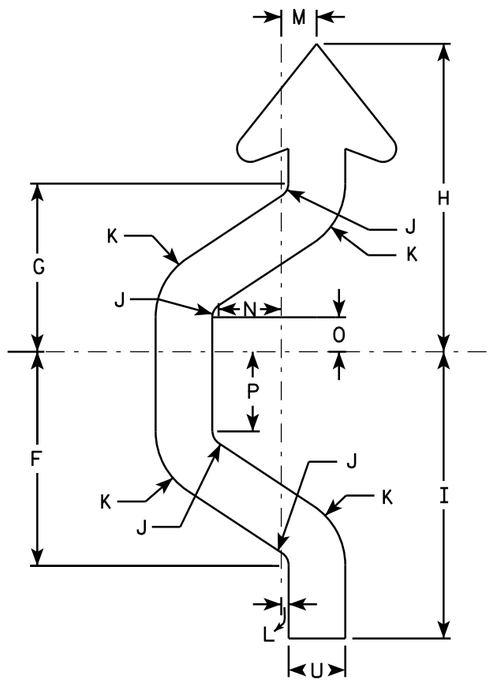
W24-1R



W24-1L



Arrowhead Detail



Arrow Detail

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W24-1R is the same as W24-1L except reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 3/8	5/8	1/2	11 3/8	8 7/8	16 3/8	15 1/4	3/4	3 3/4	3/8	2	3 3/8	1 7/8	4 1/4		5 1/2	3 1/2	5/8	3						9
2M	36		1 3/8	5/8	1/2	11 3/8	8 7/8	16 3/8	15 1/4	3/4	3 3/4	3/8	2	3 3/8	1 7/8	4 1/4		5 1/2	3 1/2	5/8	3						9
3																											
4																											
5																											

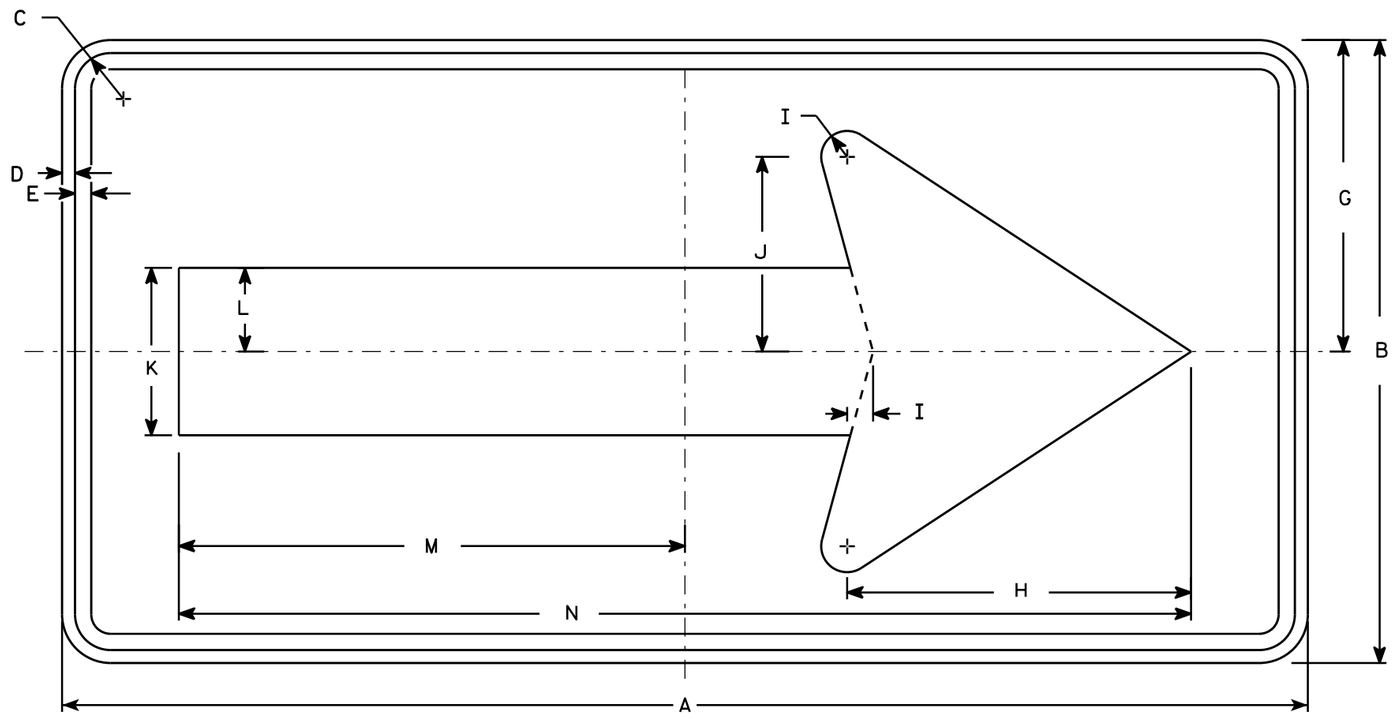
STANDARD SIGN
W24-1 L & R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/25/2013 PLATE NO. W24-1.3

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



W01-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

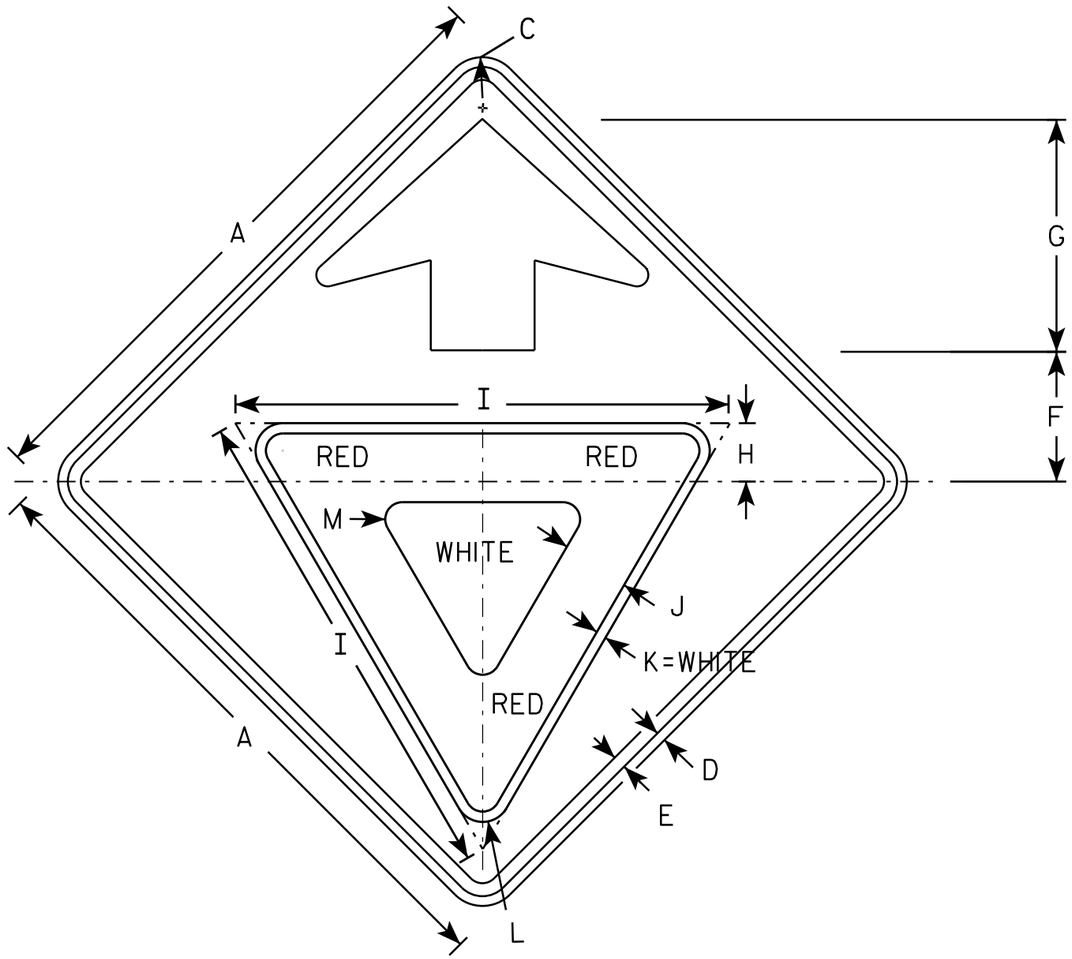
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-6.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

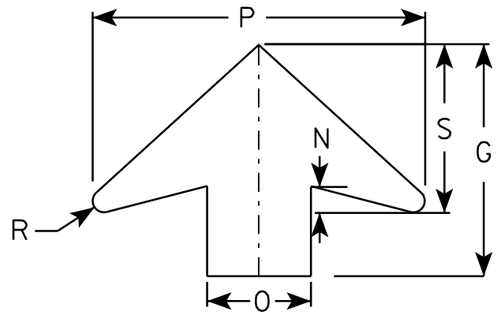
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



W03-2

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - ORANGE
   Arrow & Border - BLACK
   Yield Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
2S	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
2M	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
3	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0

STANDARD SIGN
W03-2

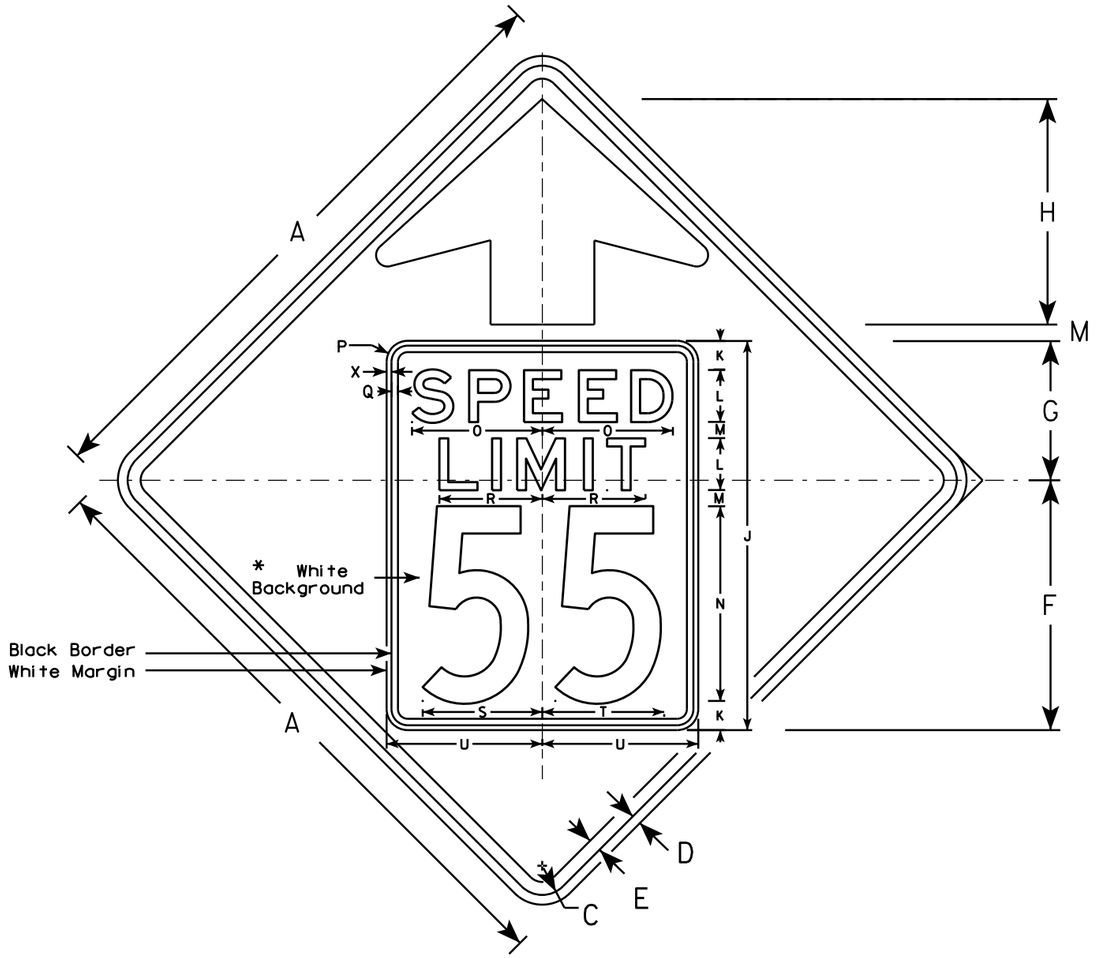
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE W03-2.1

PROJECT NO:

SHEET NO: E

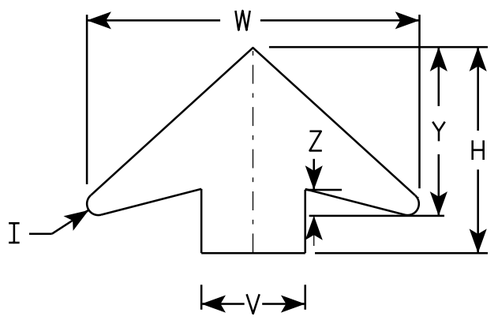


W03-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
   Background - ORANGE*
   Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2S	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
2M	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
3	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W03-5

WISCONSIN DEPT OF TRANSPORTATION

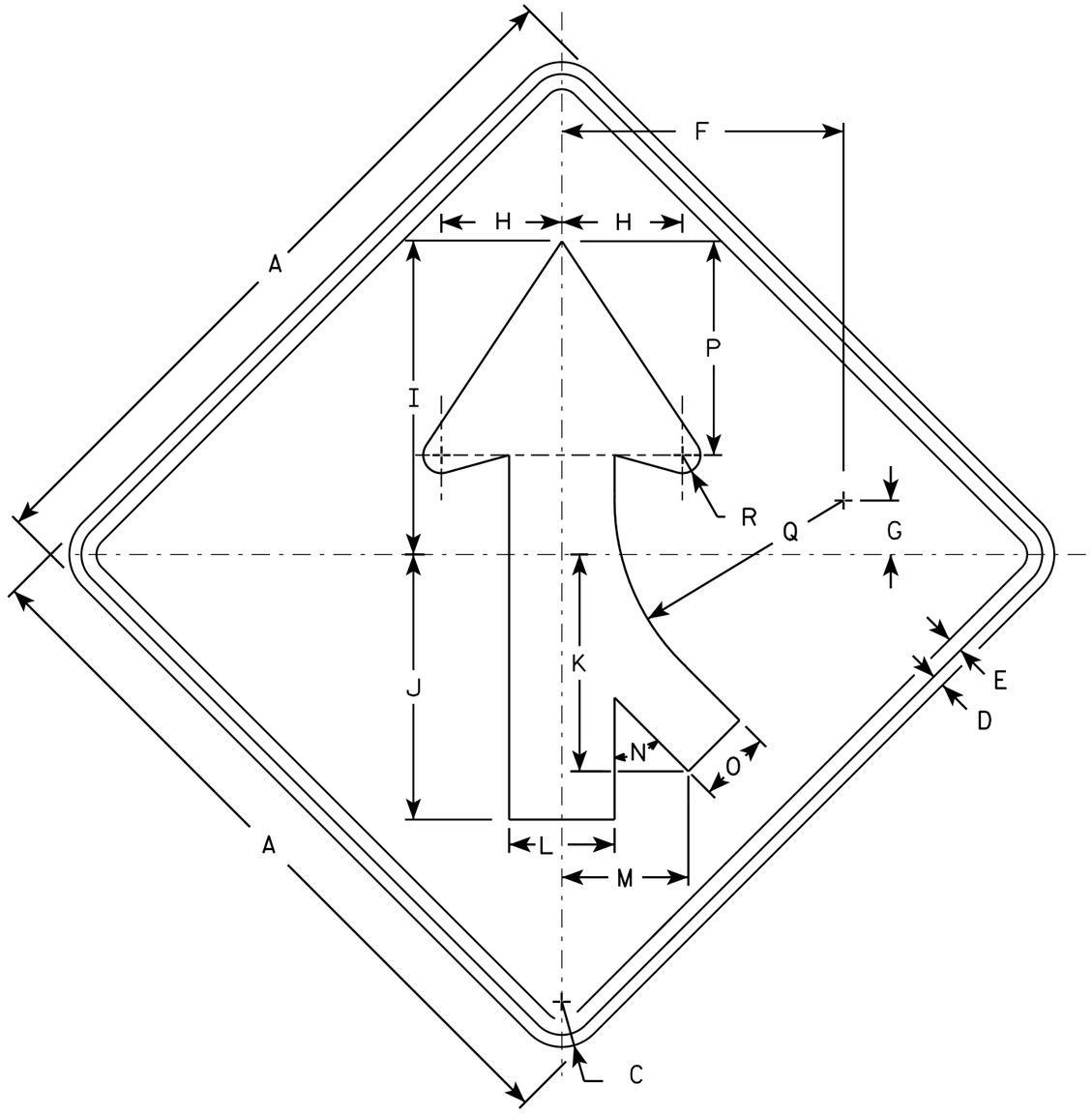
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE W03-5.1

PROJECT NO: SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W035.DGN PLOT DATE : 20-NOV-2013 11:32 PLOT BY : mscsja

WISDOT/CADDS SHEET 42



W04-1R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-1L is the same as W4-1R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
2S	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
2M	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
3	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
4	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
5	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0

STANDARD SIGN
W04-1

WISCONSIN DEPT OF TRANSPORTATION

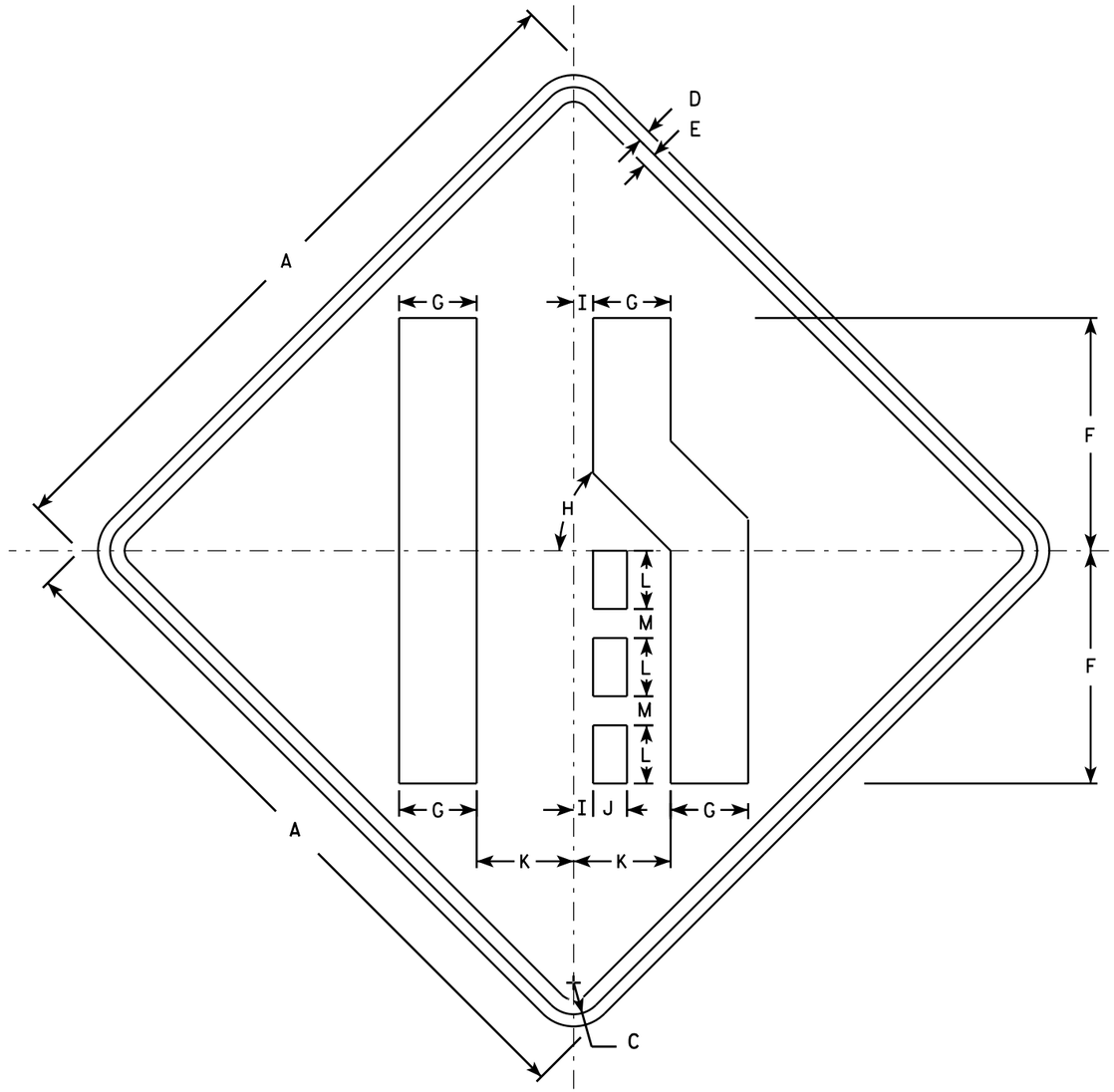
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE NO. W04-1.1

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

7

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W041.DGN PLOT DATE : 20-NOV-2013 11:38 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.080757:1.000000
WISDOT/CADDS SHEET 42



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

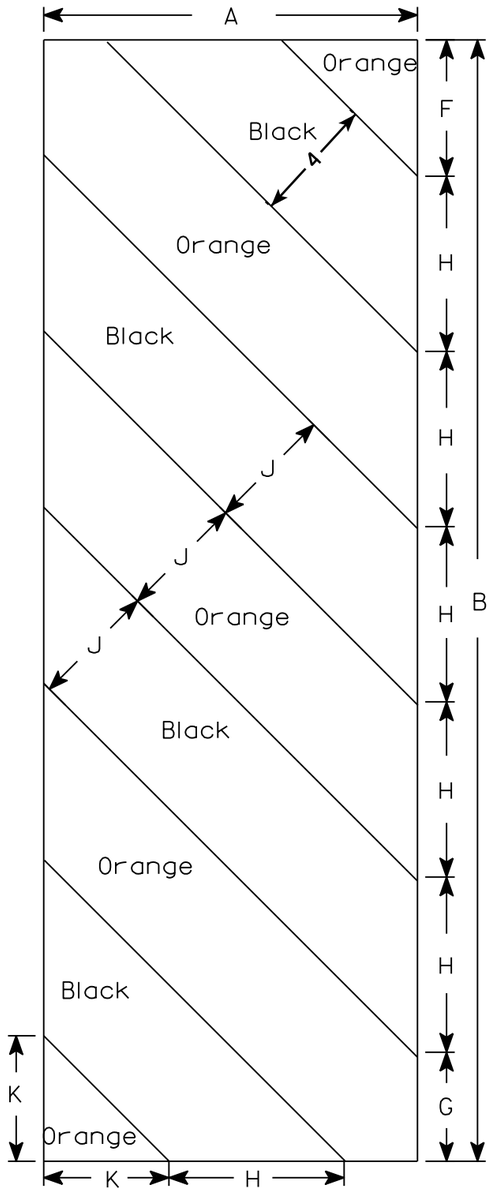
STANDARD SIGN
W04-2

WISCONSIN DEPT OF TRANSPORTATION

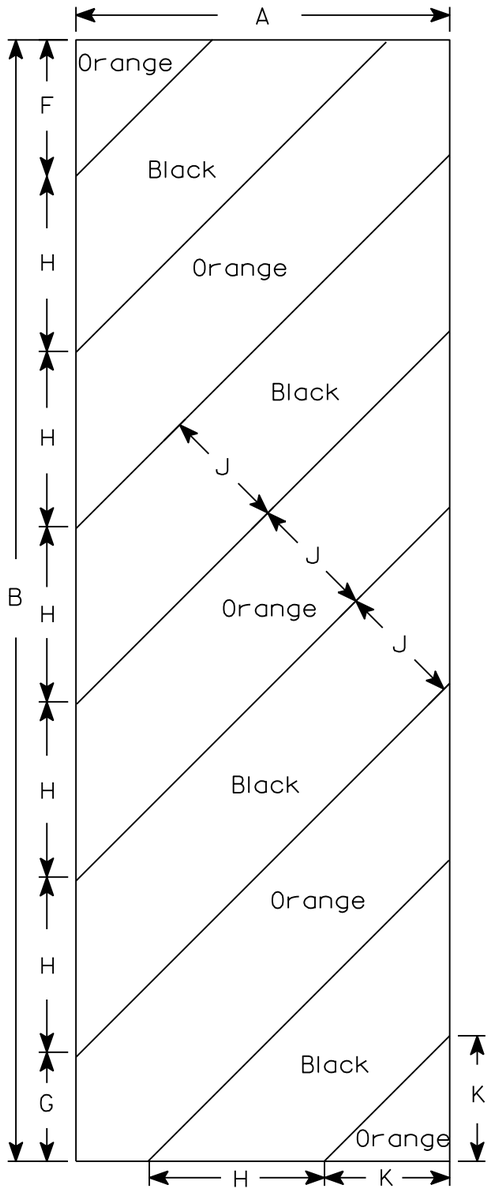
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 191 W04-2.1

PROJECT NO: | SHEET NO: E



W05-52L



W05-52R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Alternate colors of stripes as shown.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

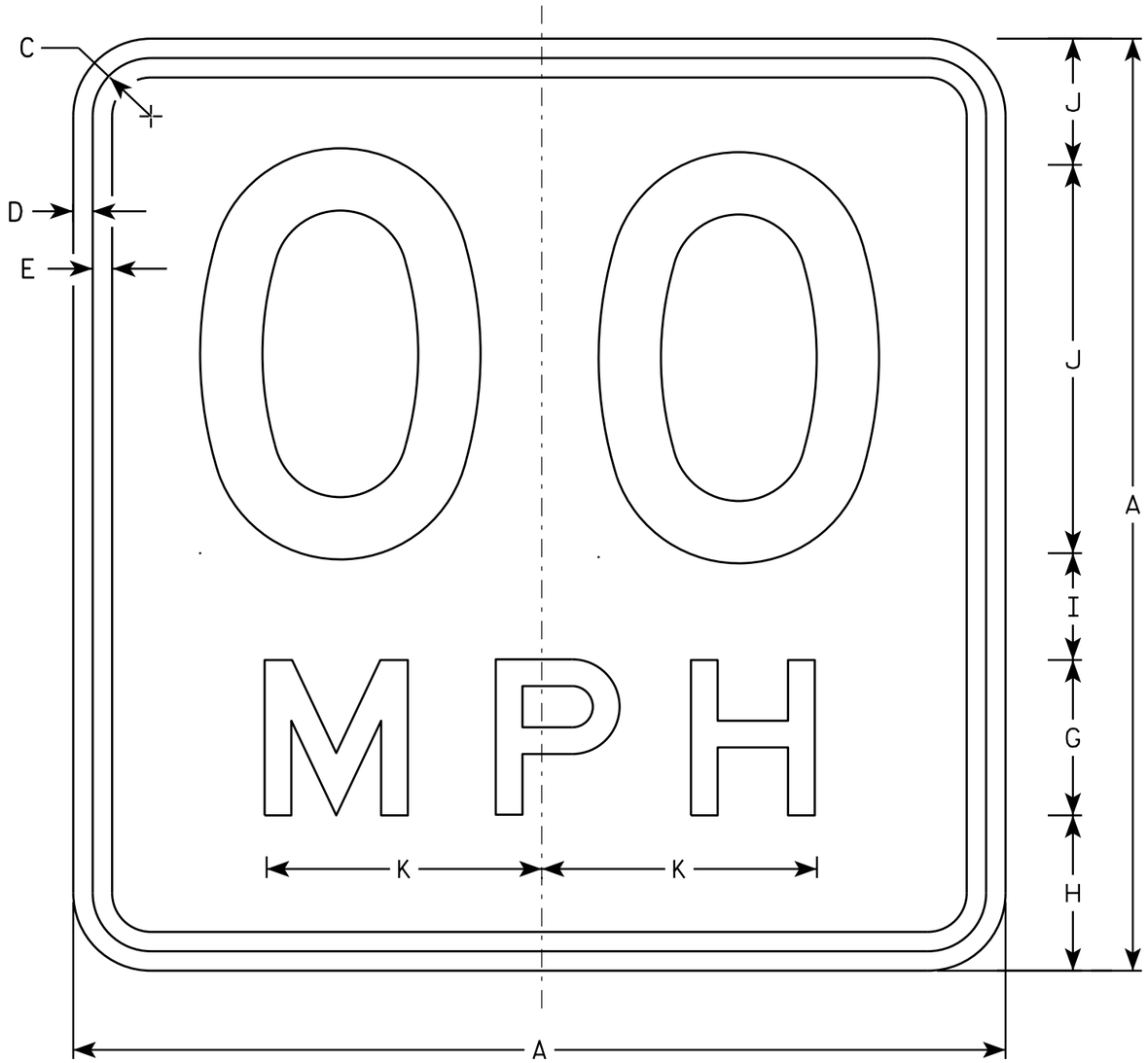
W05-52L & W05-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE No. W05-52.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W013-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	7 1/8																4.00
2S	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
2M	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
3	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W013-1

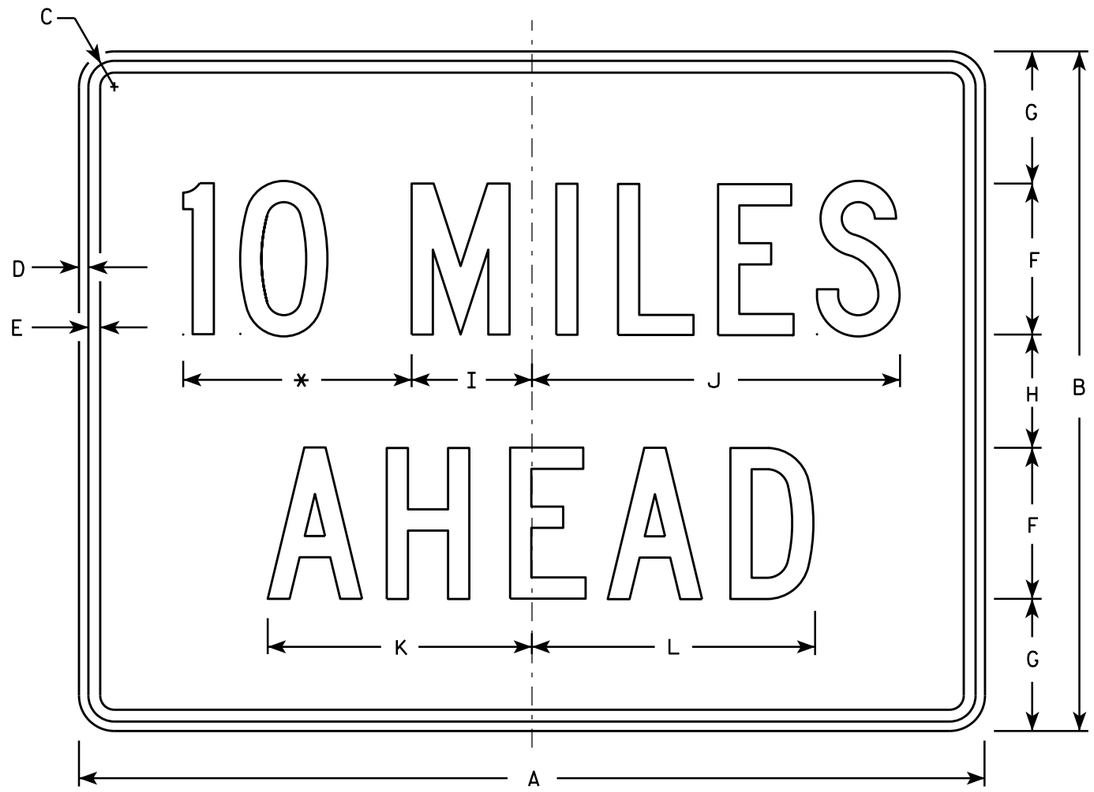
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

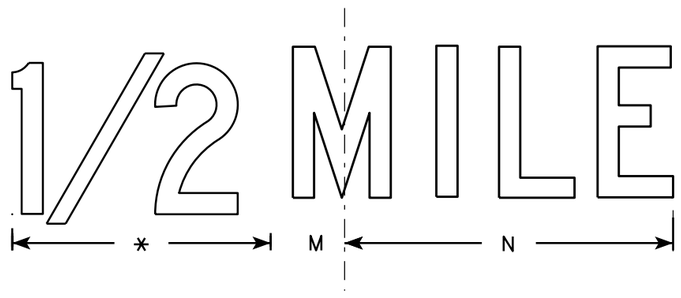
DATE 11/21/13 PLATE 193 W013-1.1

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

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W0131.DGN PLOT DATE : 02-DEC-2013 13:55 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.794391:1.000000
WISDOT/CADDS SHEET 42



W057-52



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - 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 and optically adjust spacing to achieve proper balance.

* See note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	13													6.0
2S	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0
2M	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0
3	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0
4	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0
5	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0

STANDARD SIGN
W057-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE W057-52.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W05752.DGN PLOT DATE : 28-FEB-2014 11:42 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 8.026599:1.000000 WISDOT/CADDS SHEET 42

IH-39 PORTAGE COUNTY

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Expanded Fill 1.20	
522+40	0.00	131.09	20.06	0	0	0	0	0.00
522+50	10.00	129.78	18.92	48	7	48	9	39.65
523+00	50.00	199.58	17.77	305	34	353	49	303.85
523+10	10.00	370.28	31.19	106	9	459	60	398.50
523+22	12.00	374.42	40.92	165	16	624	80	544.76
523+50	28.00	279.12	91.96	339	69	963	162	800.95
523+75	25.00	318.02	11.61	276	48	1,240	220	1,019.86
523+86	11.00	330.92	14.01	132	5	1,372	226	1,145.79
524+00	14.00	211.80	0.00	141	4	1,513	230	1,282.13
524+10	10.00	147.80	0.02	67	0	1,579	230	1,348.72
524+20	10.00	141.84	1.47	54	0	1,633	231	1,402.03
COLUMN TOTALS:				1,633	192			

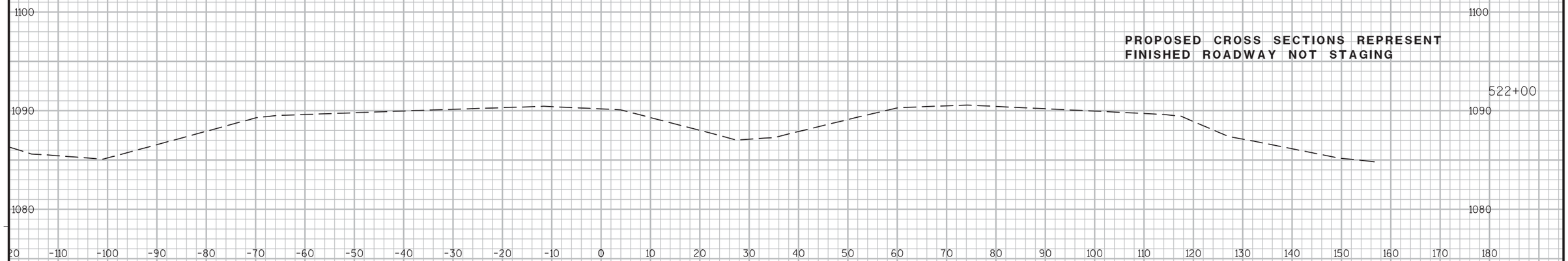
IH-39 MARATHON COUNTY

STATION	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut 1.00	Expanded Fill 1.20	
1332+94	0.00	104.11	1.66	0	0	0	0	0.00
1333+00	6.00	103.25	3.98	23	1	23	1	22.29
1333+29	29.00	106.70	32.34	113	20	136	24	111.63
1333+50	21.00	98.86	17.17	80	19	216	47	168.47
1333+64	14.00	98.27	13.42	51	8	267	57	210.06
COLUMN TOTALS:				267	47			

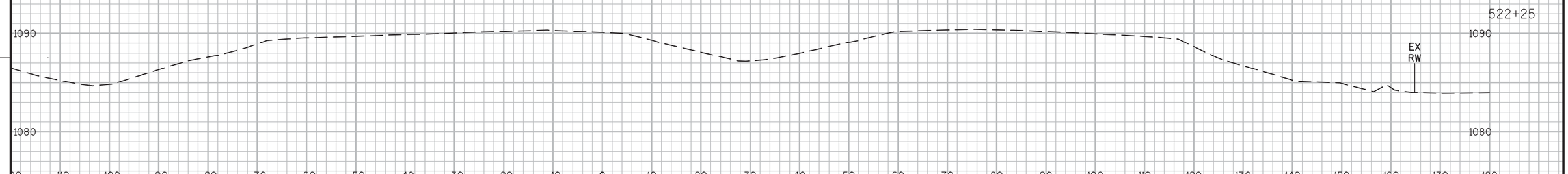
1) Cut Volume includes Salvaged/Unusable Pavement Material.
2) This assumes the existing pavement is salvaged or wasted by the contractor.
   The existing pavement structure is not shown in the cross sections.
3) Expanded Fill = Unexpanded Fill * Expanded Fill Factor.
4) Mass Ordinate = Cut - Expanded Fill. Mass Ordinate is a + or - Qty calculated for the Division
   Plus quantity indicates a waste volume of material within the Division.
   Minus indicates a shortage of material within the Division.

PROPOSED CROSS SECTIONS REPRESENT FINISHED ROADWAY NOT STAGING

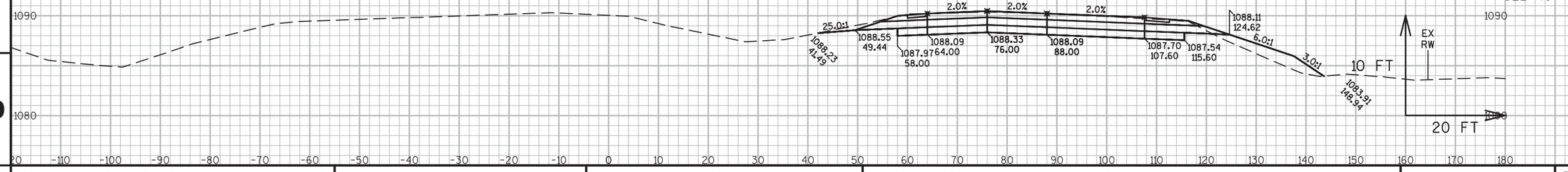
522+00



522+25



522+40

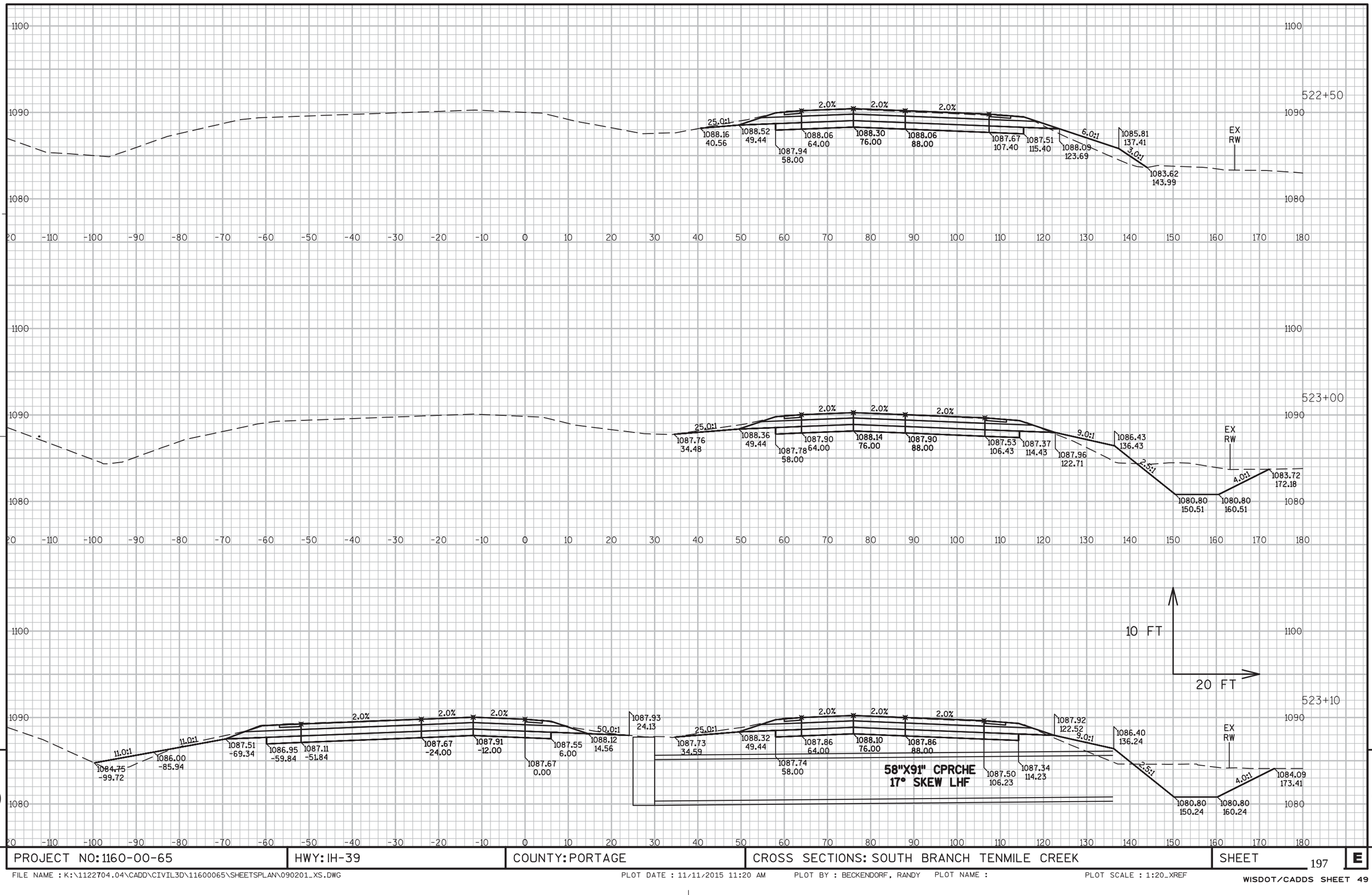


9

9

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	CROSS SECTIONS: SOUTH BRANCH TENMILE CREEK	SHEET 196	E

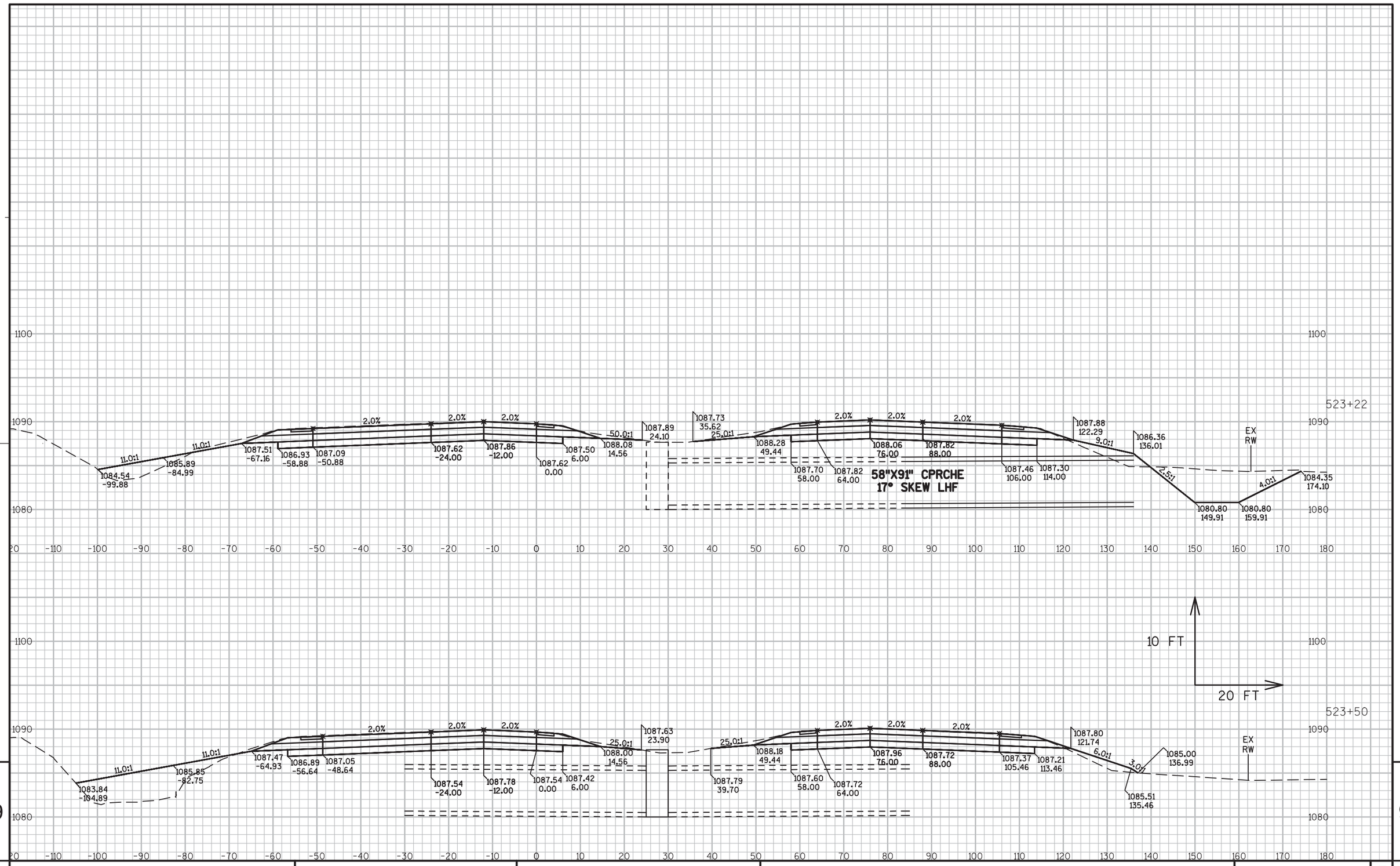
FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\090201_XS.DWG PLOT DATE : 11/11/2015 11:20 AM PLOT BY : BECKENDORF, RANDY PLOT NAME : PLOT SCALE : 1:20_XREF



9

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	CROSS SECTIONS: SOUTH BRANCH TENMILE CREEK	SHEET 197	E

9



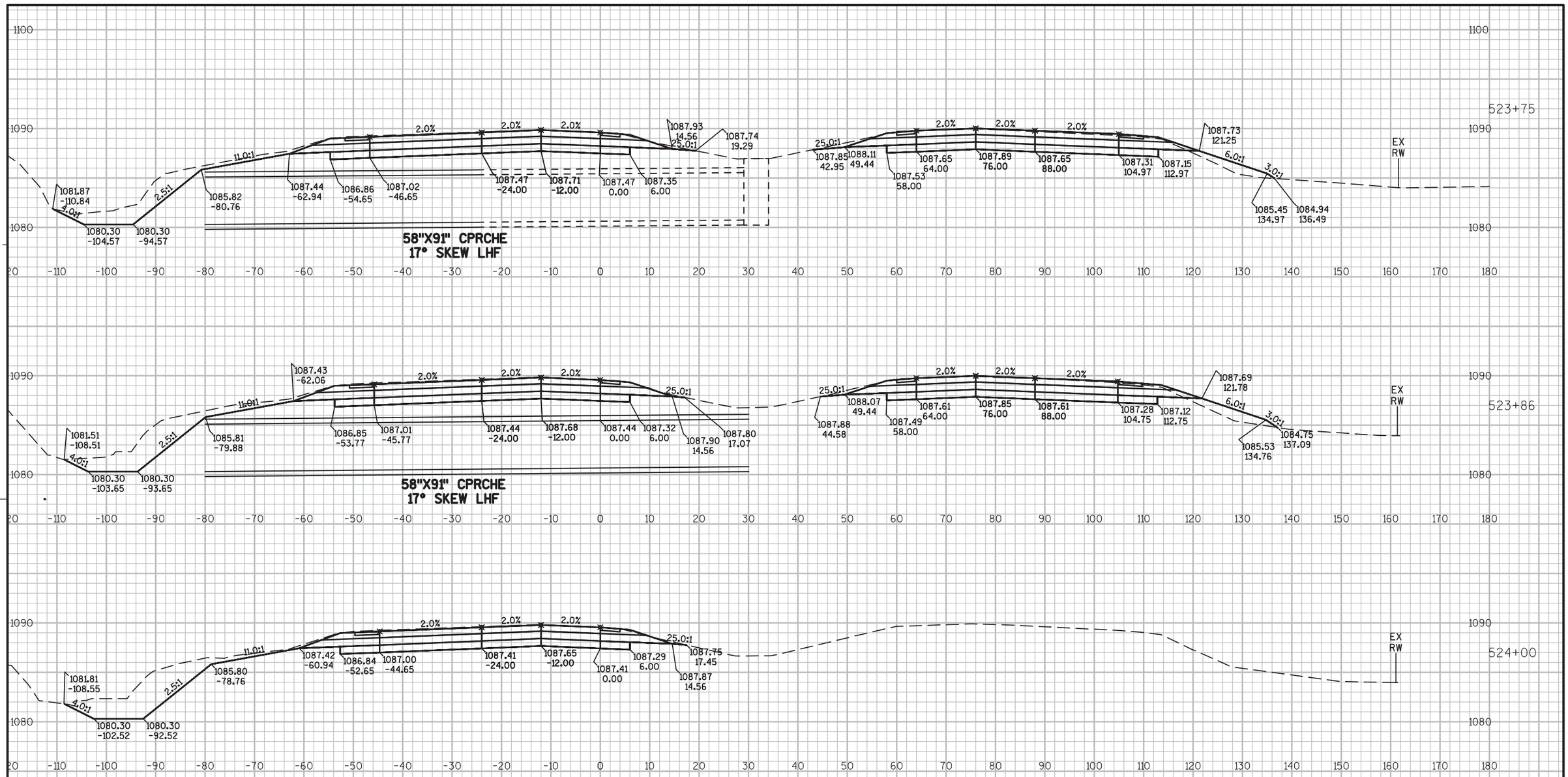
9

9

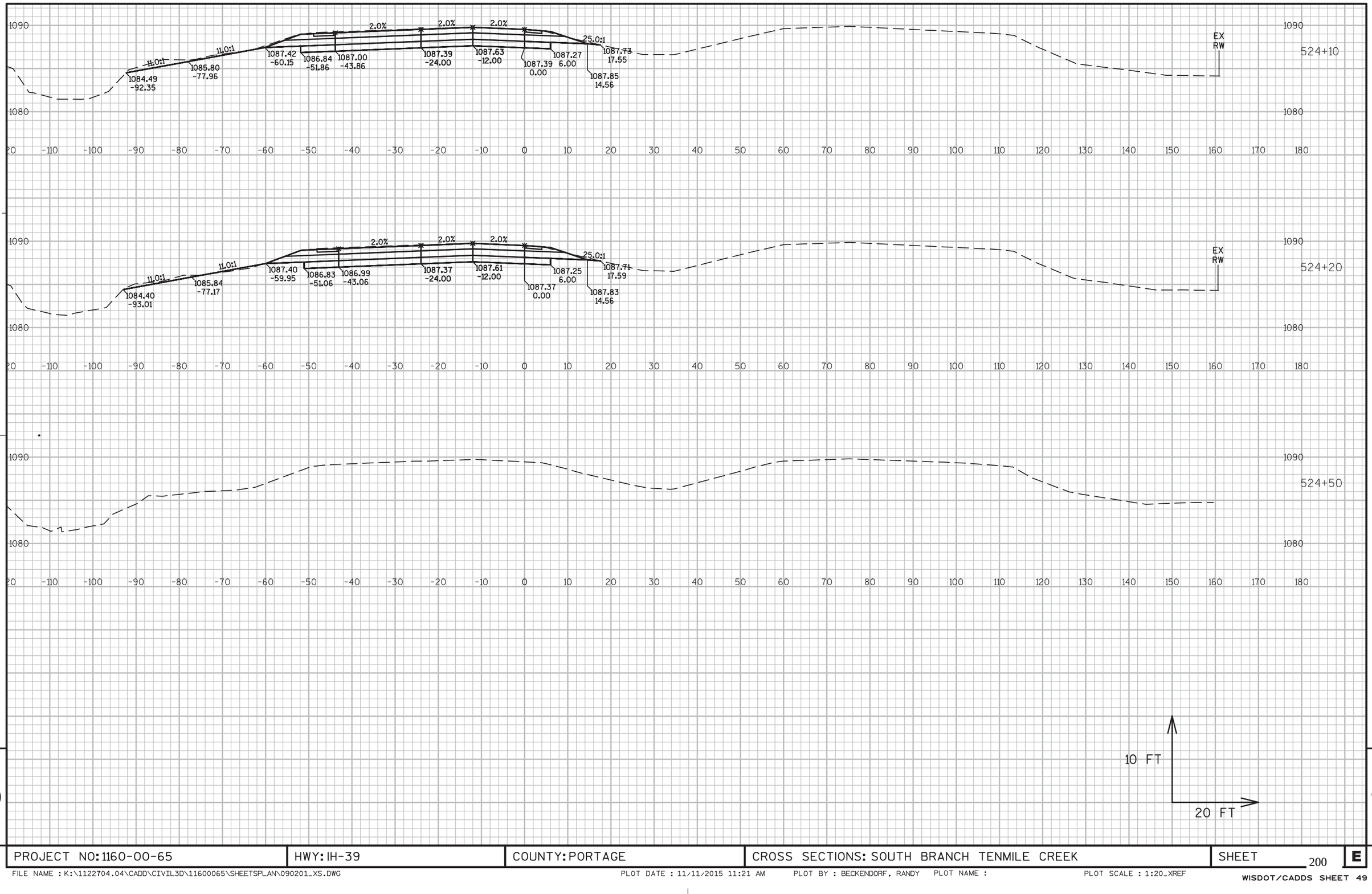
PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	CROSS SECTIONS: SOUTH BRANCH TENMILE CREEK	SHEET 198	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\090201_XS.DWG PLOT DATE : 11/12/2015 11:31 AM PLOT BY : BECKENDORF, RANDY PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	CROSS SECTIONS: SOUTH BRANCH TENMILE CREEK	SHEET 199	E



9

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PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: PORTAGE	CROSS SECTIONS: SOUTH BRANCH TENMILE CREEK	SHEET 200	E

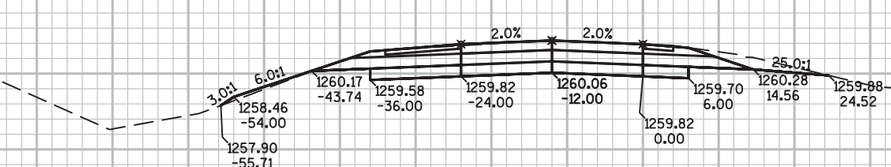
FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\090201_XS.DWG PLOT DATE : 11/11/2015 11:21 AM PLOT BY : BECKENDORF, RANDY PLOT NAME : PLOT SCALE : 1:20_XREF

PROPOSED CROSS SECTIONS REPRESENT FINISHED ROADWAY NOT STAGING

1332+50

1332+75

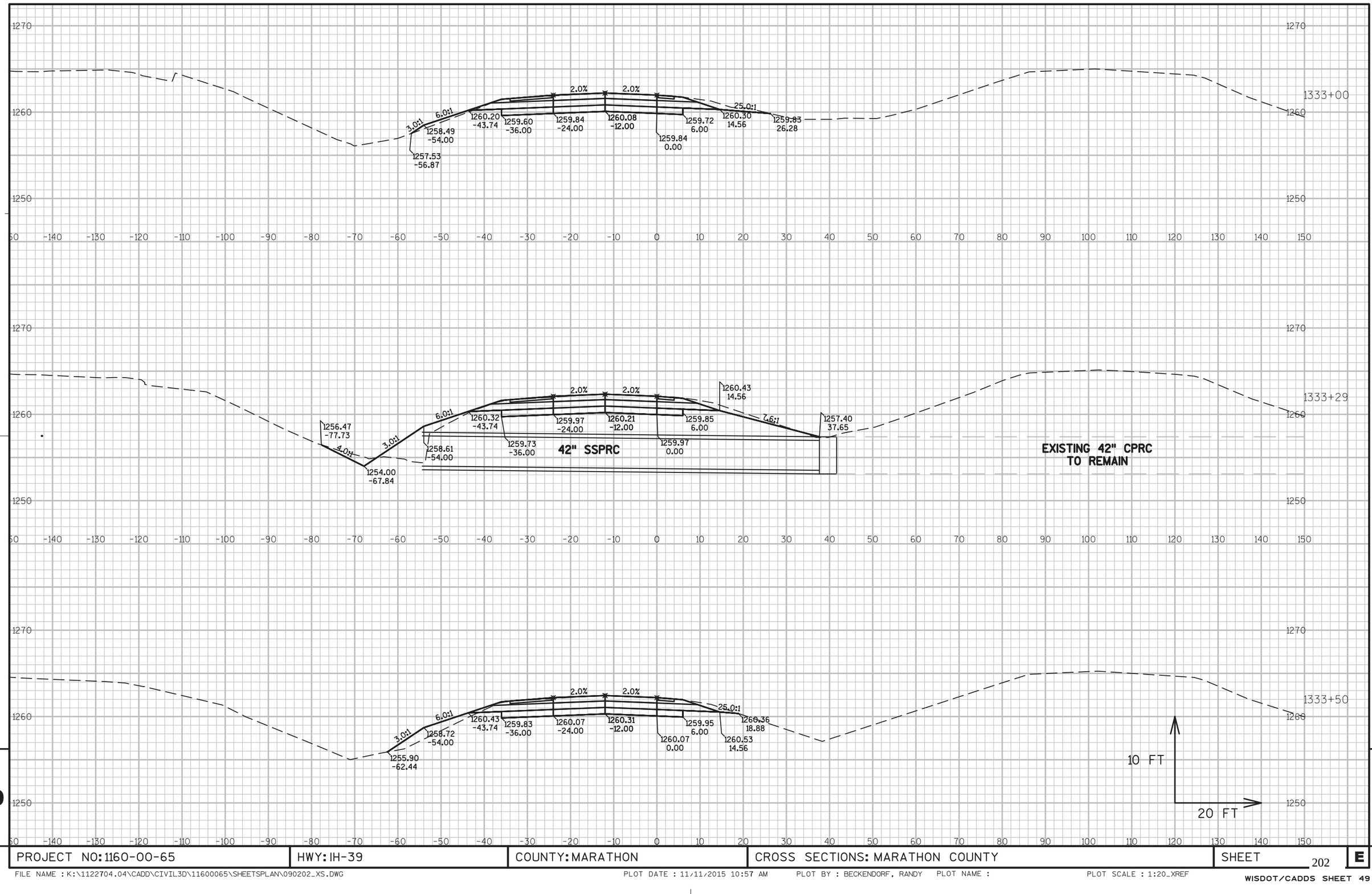
1332+94



10 FT

20 FT

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	CROSS SECTIONS: MARATHON COUNTY	SHEET 201	E

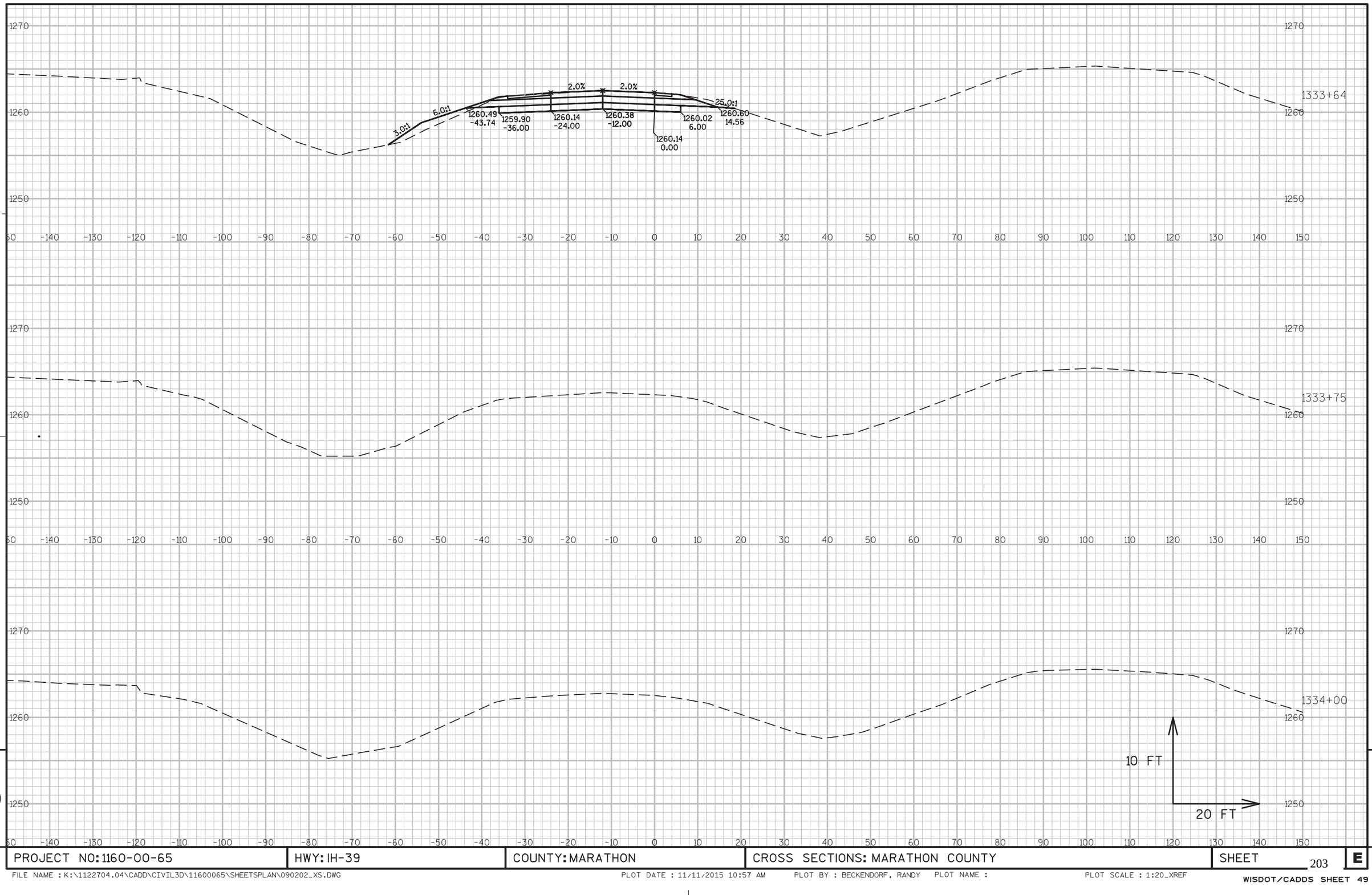


9

9

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	CROSS SECTIONS: MARATHON COUNTY	SHEET 202	E

FILE NAME : K:\1122704.04\CADD\CIVIL3D\11600065\SHEETSPLAN\090202_XS.DWG PLOT DATE : 11/11/2015 10:57 AM PLOT BY : BECKENDORF, RANDY PLOT NAME : PLOT SCALE : 1:20_XREF



9

9

PROJECT NO: 1160-00-65	HWY: IH-39	COUNTY: MARATHON	CROSS SECTIONS: MARATHON COUNTY	SHEET 203	E

Wisconsin Department of Transportation

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