

EAU

PROJECT ID:
WITH:

7130-00-75

COUNTY:

TREMPEALEAU

APRIL 2019

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plan
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 30



DESIGN DESIGNATION

A.A.D.T.	2018	=	7600
A.A.D.T.	2038	=	9600
D.H.V.		=	12.4
D.D.		=	60/40
T.		=	14.8
DESIGN SPEED		=	55
ESALS		=	4336200

CONVENTIONAL SYMBOLS

PLAN

CORPORATE LIMITS

PROPERTY LINE

LOT LINE

LIMITED HIGHWAY EASEMENT

EXISTING RIGHT OF WAY

PROPOSED OR NEW R/W LINE

SLOPE INTERCEPT

REFERENCE LINE

EXISTING CULVERT

PROPOSED CULVERT
(Box or Pipe)

COMBUSTIBLE FLUIDS

MARSH AREA

WOODED OR SHRUB AREA

PROFILE

GRADE LINE

ORIGINAL GROUND

MARSH OR ROCK PROFILE
(To be noted as such)

SPECIAL DITCH

GRADE ELEVATION

CULVERT (Profile View)

UTILITIES

ELECTRIC

FIBER OPTIC

GAS

SANITARY SEWER

STORM SEWER

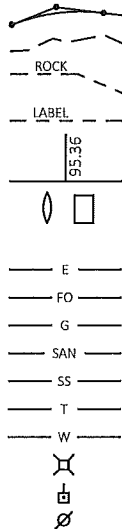
TELEPHONE

WATER

UTILITY PEDESTAL

POWER POLE

TELEPHONE POLE



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

CENTERVILLE - INDEPENDENCE

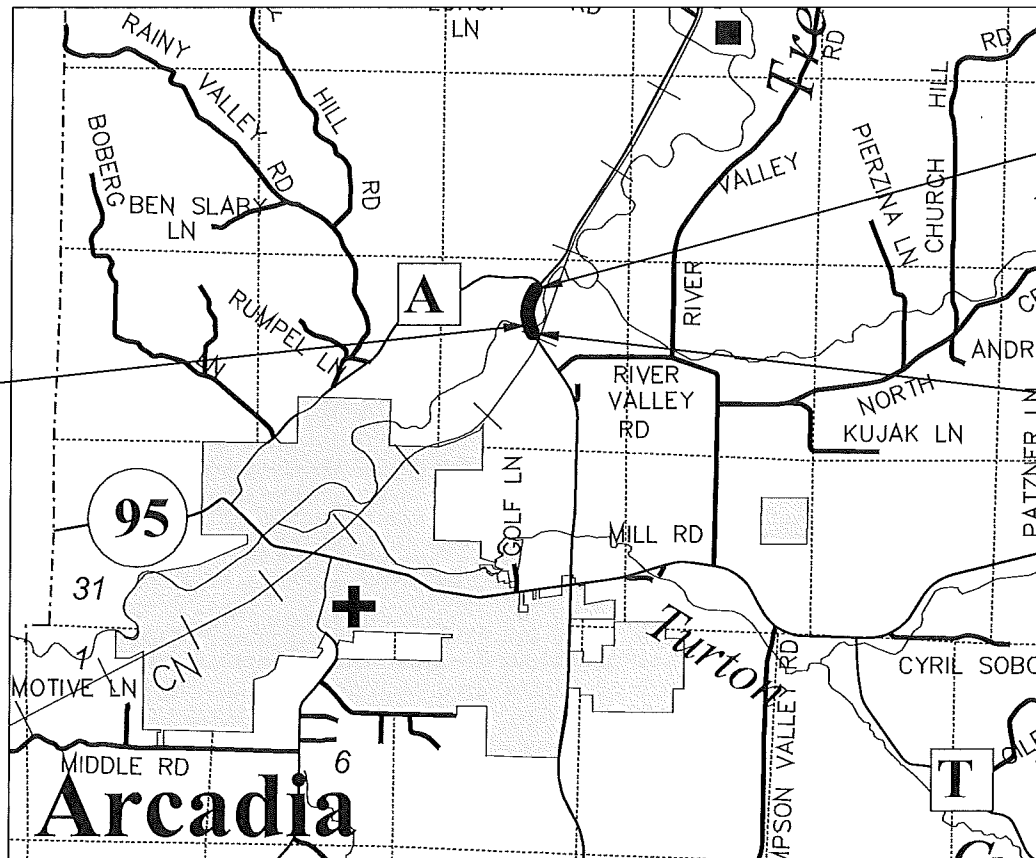
CANADIAN NATIONAL RR X-ING TO CTH A

STH 93

TREMPEALEAU

STATE PROJECT NUMBER

7130-00-75



END PROJECT

STA 115+15.78

Y = 405681.022

X = 813956.540

BEGIN PROJECT

STA 97+56.44

Y = 404080.816

X = 813930.402



R-9-W

LAYOUT

SCALE 0 0.5 MI

TOTAL NET LENGTH OF CENTERLINE = 0.333

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), TREMPLEAU COUNTY, NAD83 (2016), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2007). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WisDOT
Designer	Matthew Payne
Project Manager	David Koepp
Regional Examiner	Jennifer Oldenburg
Regional Supervisor	James Koenig

APPROVED FOR THE DEPARTMENT

DATE: 10/26/2018 (Signature)

E

LIST OF STANDARD ABBREVIATIONS

ABUT.	ABUTMENT	LT.	LEFT
AGG.	AGGREGATE	L.H.F.	LEFT-HAND FORWARD
AH.	AHEAD	LIN.	LINEAR
APPROX.	APPROXIMATE	LIN. FT.	LINEAR FOOT
A.E.W.	APRON ENDWALL	L.S.	LUMP SUM
ASPH.	ASPHALTIC	MAX.	MAXIMUM
A.D.T.	AVERAGE DAILY TRAFFIC	MI.	MILE
AZ.	AZIMUTH	MISC.	MISCELLANEOUS
BK.	BACK	N.E.	NORTH EAST
BEG.	BEGIN	N.W.	NORTH WEST
B.M.	BENCH MARK	PAV'T	PAVEMENT
C/L	CENTER LINE	P.C.	POINT OF CURVATURE
CONC.	CONCRETE	P.I.	POINT OF INTERSECTION
CONST.	CONSTRUCTION	P.T.	POINT OF TANGENCY
CO.	COUNTY	P.O.T.	POINT ON TANGENT
C.T.H.	COUNTY TRUNK HIGHWAY	LB.	POUND
X-SEC.	CROSS SECTION	P.E.	PRIVATE ENTRANCE
CR.	CRUSHED	PROJ.	PROJECT
CFS	CUBIC FEET/SECOND	R.	RANGE
C.Y., CU. YD.	CUBIC YARD	REQ'D	REQUIRED
CULV.	CULVERT	RT.	RIGHT
C.P.	CULVERT PIPE	R.H.F.	RIGHT-HAND FORWARD
D.O.T.	DEPARTMENT OF TRANSPORTATION	R/W	RIGHT OF WAY
D.H.V.	DESIGN HOUR VOLUME	RD.	ROAD
DIA.	DIAMETER	SHR.	SHRINKAGE
D.	DIRECTIONAL DISTRIBUTION	SL.	SLOPE
DISCH. OR DIS.	DISCHARGE	STD.	STANDARD
EA.	EACH	S.D.D.	STANDARD DETAIL DRAWINGS
ELECT.	ELECTRIC	S.T.H.	STATE TRUNK HIGHWAY
EL. OR ELEV.	ELEVATION	STA.	STATION
EMB.	EMBANKMENT	S.P.P.A.	STRUCTURAL PLATE PIPE ARCH
E.B.S.	EXCAVATION BELOW SUBGRADE	STRUCT.	STRUCTURE
EXIST.	EXISTING	SURF.	SURFACE
FERT.	FERTILIZE	TEL.	TELEPHONE
F.E.	FIELD ENTRANCE	TN.	TOWN
FIN.	FINISHED	T.	TRUCKS (PERCENT OF)
FT.	FOOT	UNCL.	UNCLASSIFIED
F.L.	FLOW LINE	U.G.	UNDERGROUND
GA.	GAUGE	V.	VELOCITY OR DESIGN SPEED
HORIZ.	HORIZONTAL	V.C.	VERTICAL CURVE
CWT.	HUNDREDWEIGHT		
INL.	INLET		

ORDER OF DETAIL SHEETS

- PROJECT OVERVIEW
- TYPICAL SECTIONS
- CONSTRUCTION DETAILS
- PAVEMENT MARKING
- PLAN DETAILS
- TRAFFIC CONTROL

GENERAL NOTES

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

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

ADJUST TRAFFIC CONTROL DEVICES TO FIT FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER IN THE FIELD.

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

CONTACTS

TREMPEALEAU COUNTY HIGHWAY DEPARTMENT

AL RINKA, HIGHWAY COMMISSIONER
N36258 COUNTY RD QQ
P.O. BOX 97
WHITEHALL, WI 54773
PHONE: (715) 538-4799
CELL: (715) 299-2657
EMAIL: al.rinka@tremplocounty.com

DNR LIAISON

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
AMY LESIK
1300 WEST CLAIREMONT AVENUE
EAU CLAIRE, WI 54701
PHONE: (715) 836-6571
EMAIL: AmyL.Lesik@wisconsin.gov

UTILITIES

COMMUNICATIONS

CENTURYLINK INC.
BRIAN STELPLUGH
333 N FRONT ST
LA CROSSE, WI 54601
PHONE: (608) 796-5142 (OFFICE)
PHONE: (608) 780-1238 (MOBILE)
EMAIL: brian.stelplugh@centurylink.com
24-HOUR EMERGENCY REPAIR 800-824-2877

ELECTRIC

DAIRYLAND POWER COOPERATIVE
STEVEN M. SCHAUER
3200 EAST AVENUE S
PO BOX 817
LA CROSSE, WI 54602-0817
PHONE: (608)-788-4000, EXT. 458 (OFFICE)
EMAIL: Steve.Schauer@DairylandPower.com

RIVERLAND ENERGY COOPERATIVE
TIM HOLTAN
N28988 STATE ROAD 93
PO BOX 277
ARCADIA, WI 54612-0277
PHONE: (608) 323-3381 (OFFICE)
PHONE: (608) 797-0102 (MOBILE)
EMAIL: tholtan@riverlandenergy.com

RAILROAD

* WISCONSIN CENTRAL LTD
JACKIE MACEWICZ
1625 DEPOT STREET
STEVENS POINT, WI 54481
PHONE: (715) 345-2503
EMAIL: jackie.macewicz@cn.ca

WCL (CN) CALL BEFORE YOU DIG
(734) 783-4533
WCL (CN) IS NOT A PART OF DIGGERS HOTLINE

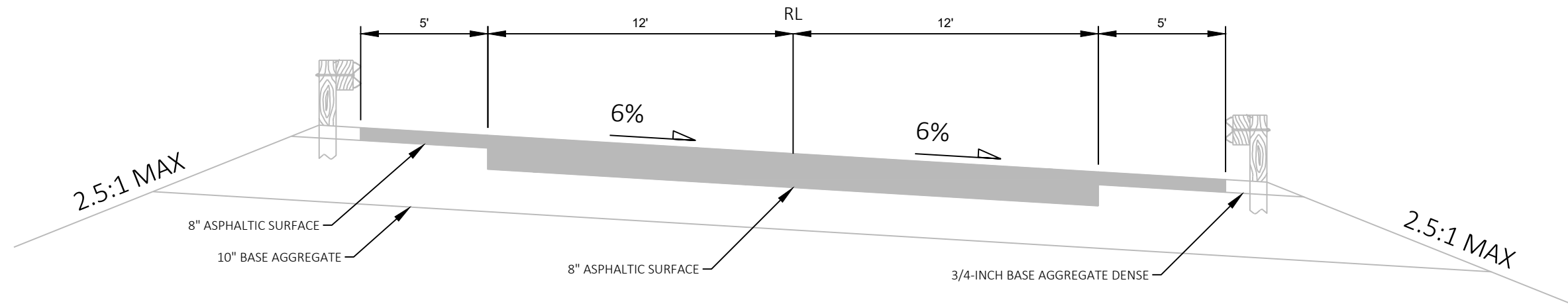


Dial 811 or (800)242-8511
www.DiggersHotline.com

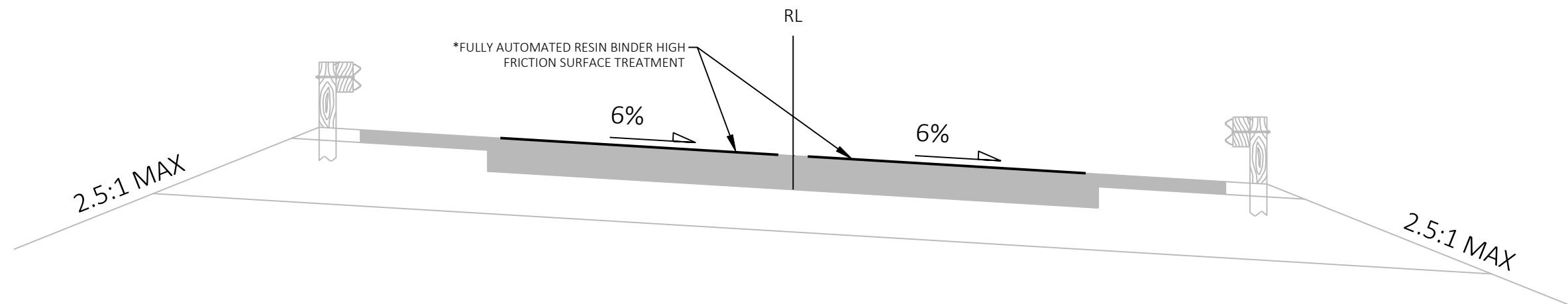
* DENOTES UTILITY IS NOT A MEMBER OF DIGGERS HOTLINE



PROJECT NO: 7130-00-75	HWY: STH 93	COUNTY: TREMPLEAU	PROJECT OVERVIEW	SHEET	E
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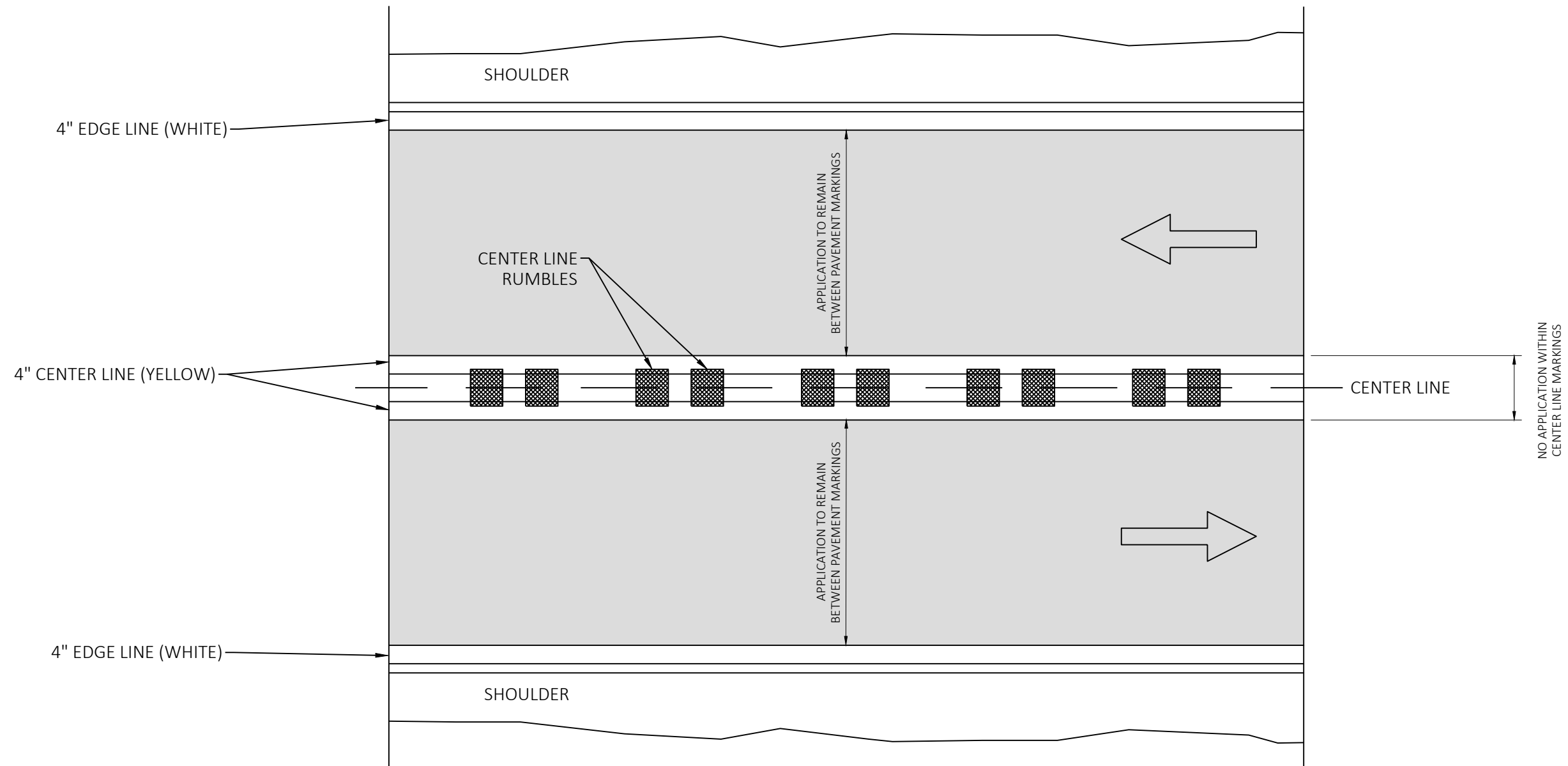


TYPICAL EXISTING SECTION STH 93
STA 97+56.44 TO 101+47.83
STA 104+45.66 TO 115+15.78

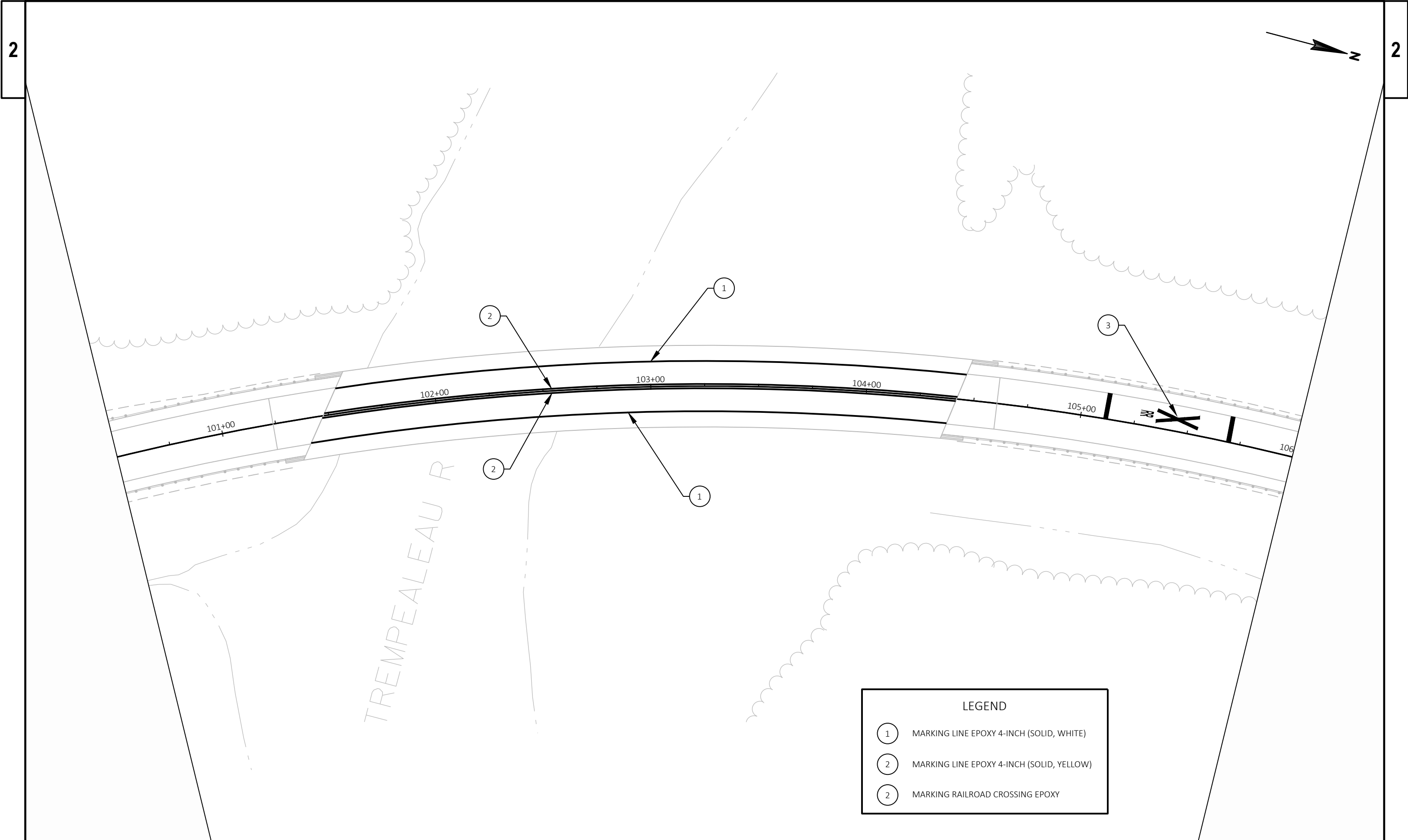


TYPICAL FINISHED SECTION STH 93
STA 97+56.44 TO 101+47.83
STA 104+45.66 TO 115+15.78

* REFER TO CONSTRUCTION DETAIL "ROADWAY SURFACE TREATMENT APPLICATION LIMITS"



ROADWAY SURFACE TREATMENT APPLICATION LIMITS



LEGEND

1

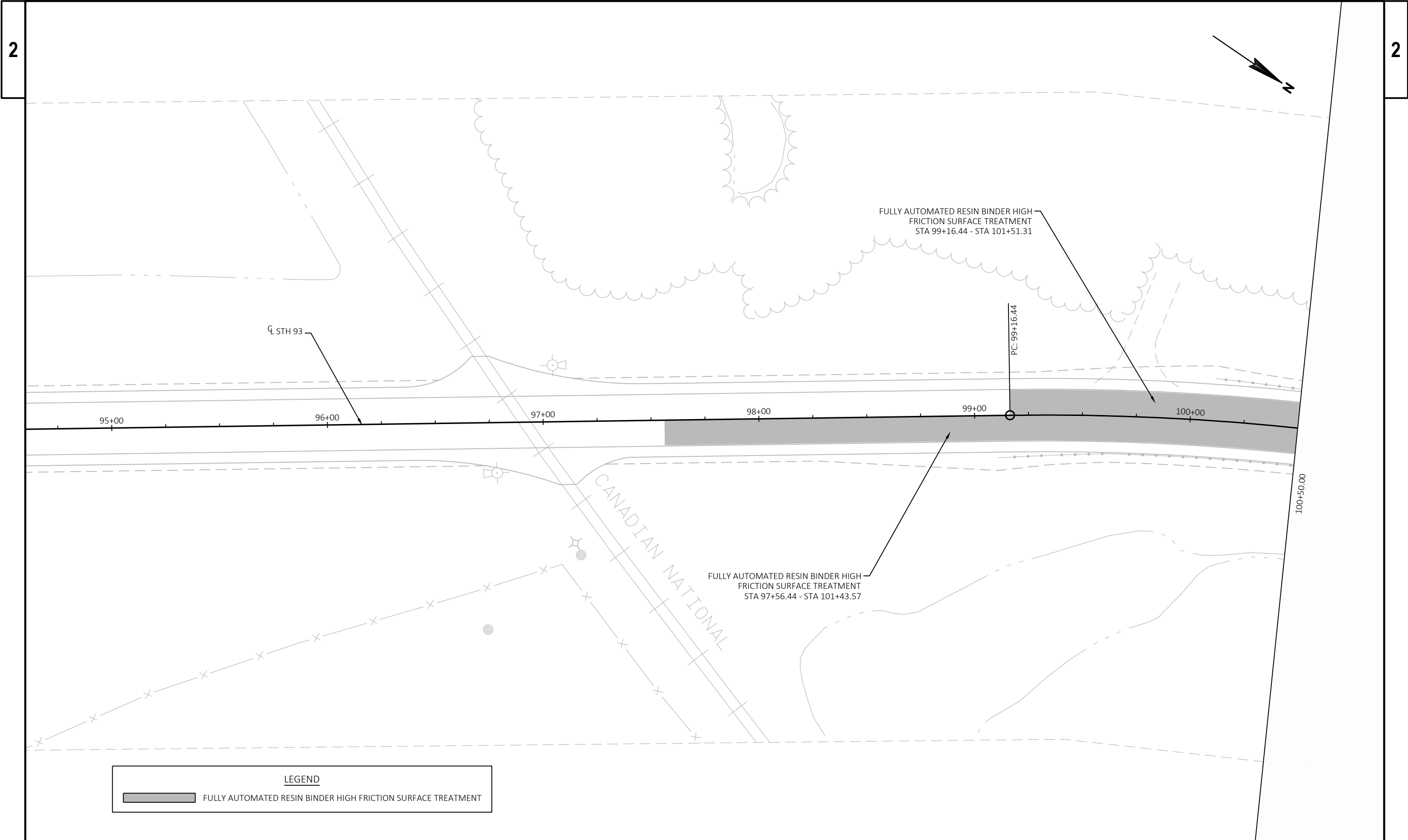
MARKING LINE EPOXY 4-INCH (SOLID, WHITE)

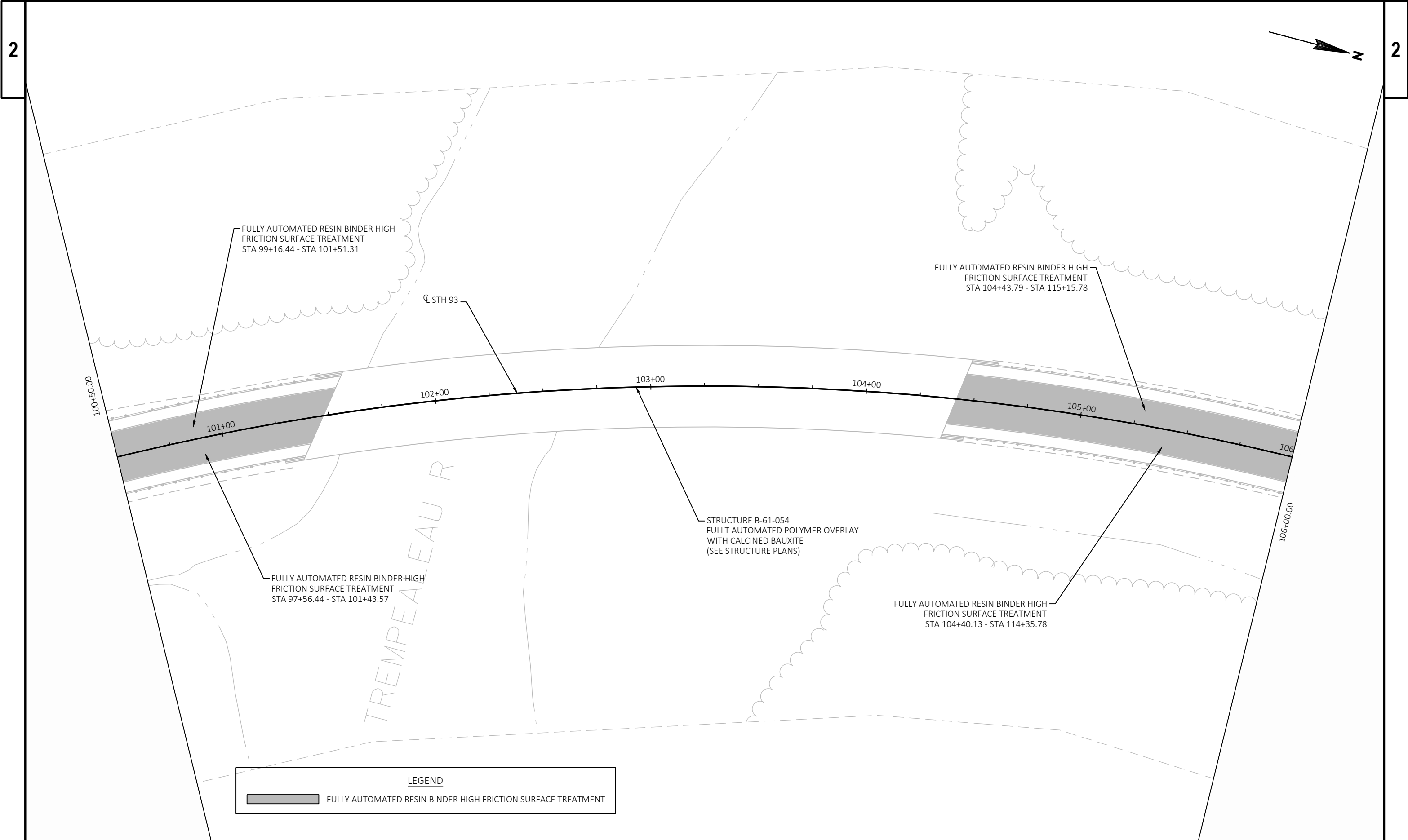
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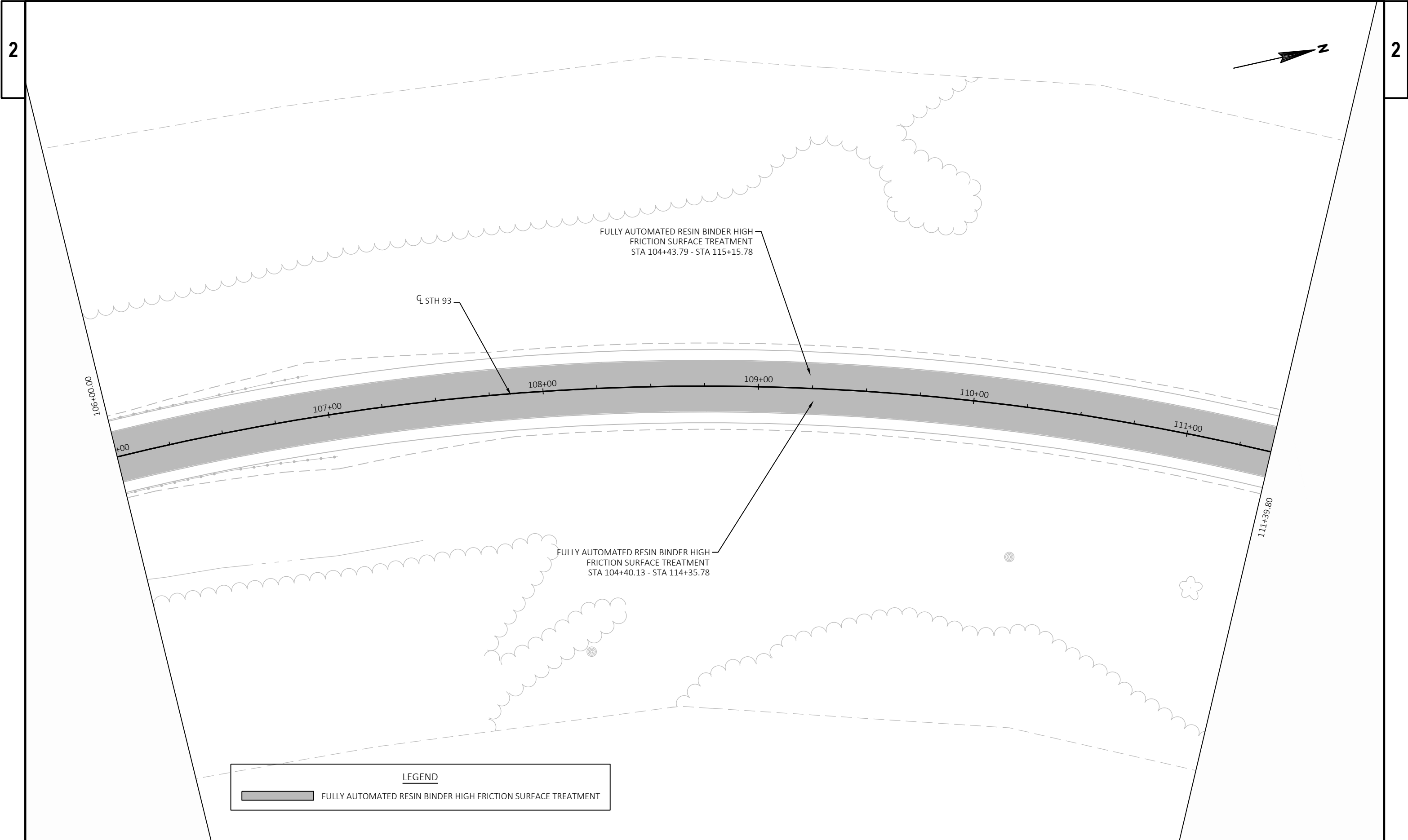
MARKING LINE EPOXY 4-INCH (SOLID, YELLOW)

2

MARKING RAILROAD CROSSING EPOXY

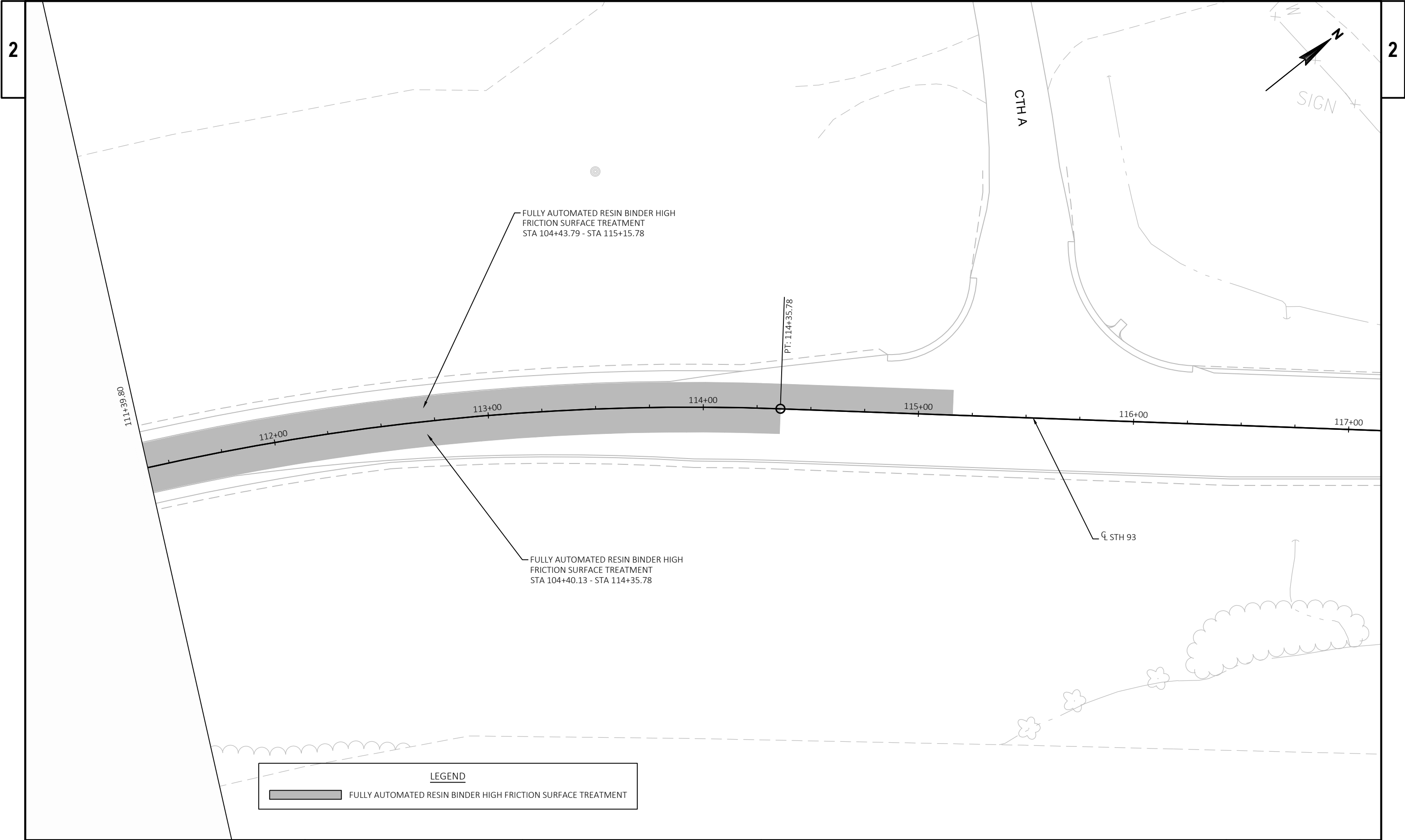


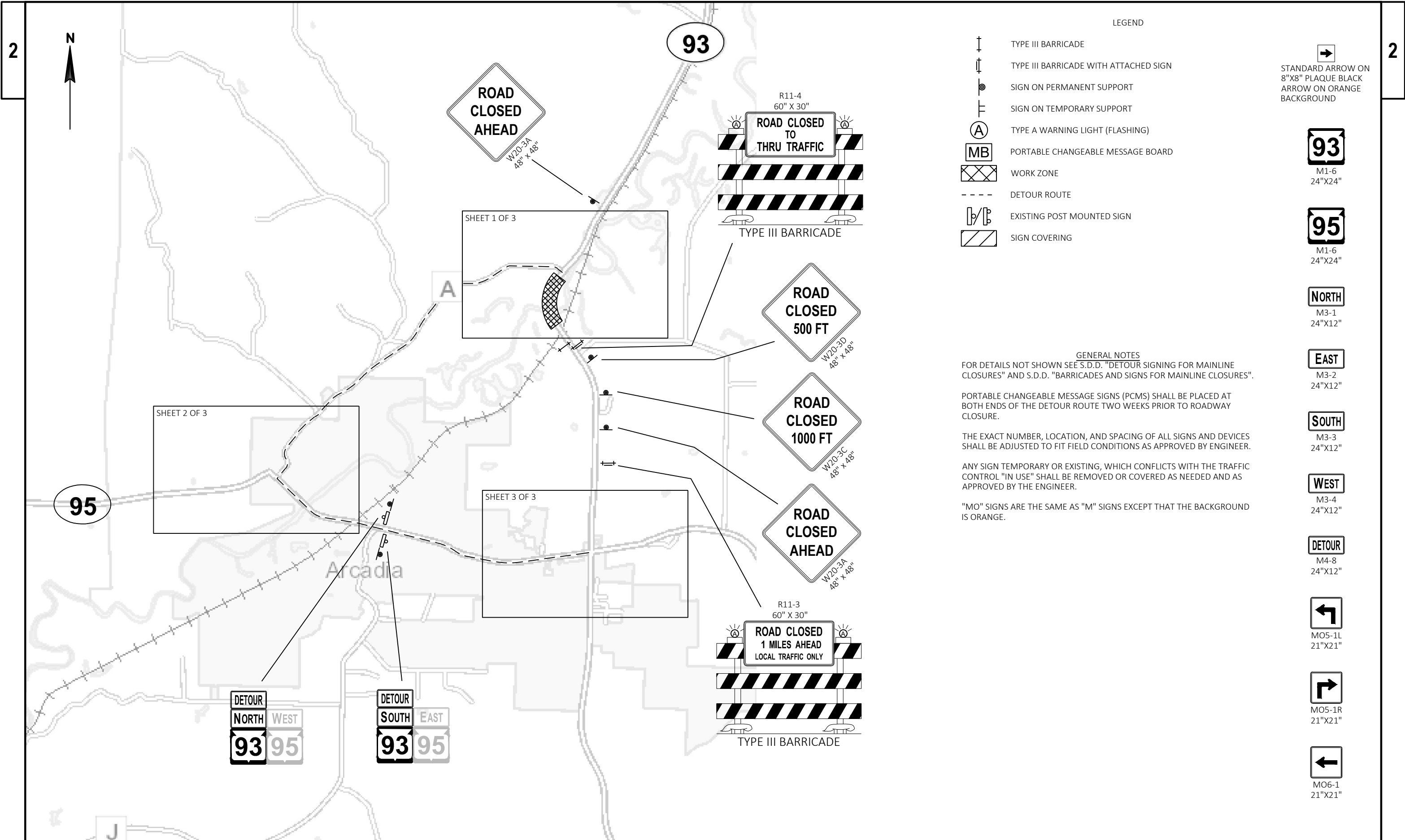




LEGEND

FULLY AUTOMATED RESIN BINDER HIGH FRICTION SURFACE TREATMENT





LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TYPE A WARNING LIGHT (FLASHING)
- PORTABLE CHANGEABLE MESSAGE BOARD
- WORK ZONE
- DETOUR ROUTE
- EXISTING POST MOUNTED SIGN
- SIGN COVERING

STANDARD ARROW ON
8"X8" PLAQUE BLACK
ARROW ON ORANGE
BACKGROUND

93
M1-6
24"X24"

95
M1-6
24"X24"

NORTH
M3-1
24"X12"

EAST
M3-2
24"X12"

SOUTH
M3-3
24"X12"

WEST
M3-4
24"X12"

DETOUR
M4-8
24"X12"

MO5-1L
21"X21"

MO5-1R
21"X21"

MO6-1
21"X21"

GENERAL NOTES

FOR DETAILS NOT SHOWN SEE S.D.D. "DETOUR SIGNING FOR MAINLINE CLOSURES" AND S.D.D. "BARRICADES AND SIGNS FOR MAINLINE CLOSURES".

PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE PLACED AT BOTH ENDS OF THE DETOUR ROUTE TWO WEEKS PRIOR TO ROADWAY CLOSURE.

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

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

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

PROJECT NO: 7130-00-75

HWY: STH 93

COUNTY: TREMPLEAU

TRAFFIC CONTROL DETOUR PLAN OVERVIEW

SHEET

E

FILE NAME : N:\PDS\C3D\71300005\SHEETPLAN\020000-TYPICAL SECTIONS & DETAILS\020600-TRAFFIC CONTROL\020601_TC_NEW.DWG
LAYOUT NAME - Plan 1 IN 0.5 MI

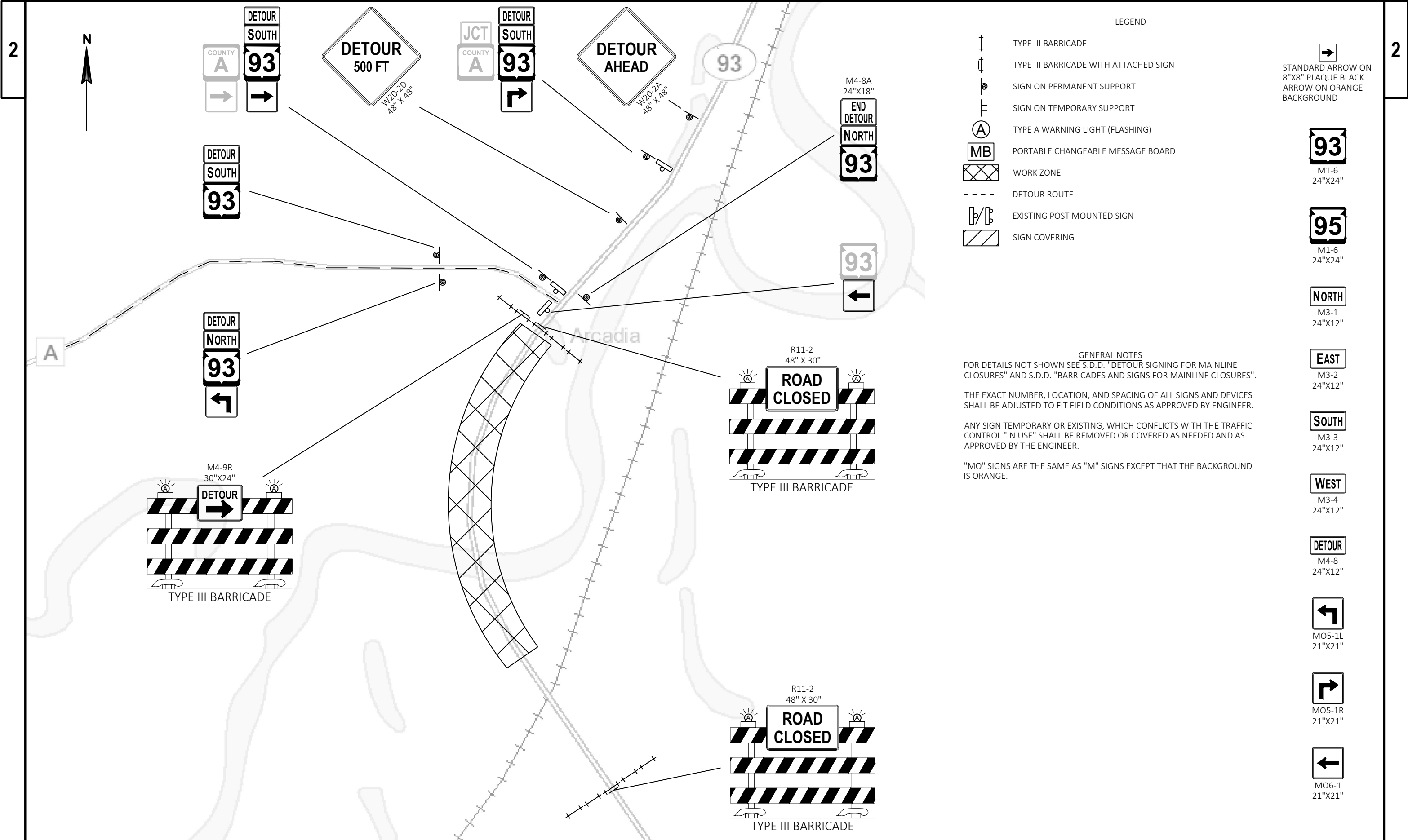
PLOT DATE : 2/11/2019 2:39 PM

PLOT BY : PAYNE, MATTHEW A

PLOT NAME :

PLOT SCALE : 1 IN:0.5 MI

WISDOT/CADDs SHEET 42



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TYPE A WARNING LIGHT (FLASHING)
- PORTABLE CHANGEABLE MESSAGE BOARD
- WORK ZONE
- DETOUR ROUTE
- EXISTING POST MOUNTED SIGN
- SIGN COVERING

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STANDARD ARROW ON
8"x8" PLAQUE BLACK
ARROW ON ORANGE
BACKGROUND



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TYPE A WARNING LIGHT (FLASHING)
- PORTABLE CHANGEABLE MESSAGE BOARD
- WORK ZONE
- DETOUR ROUTE
- EXISTING POST MOUNTED SIGN
- SIGN COVERING

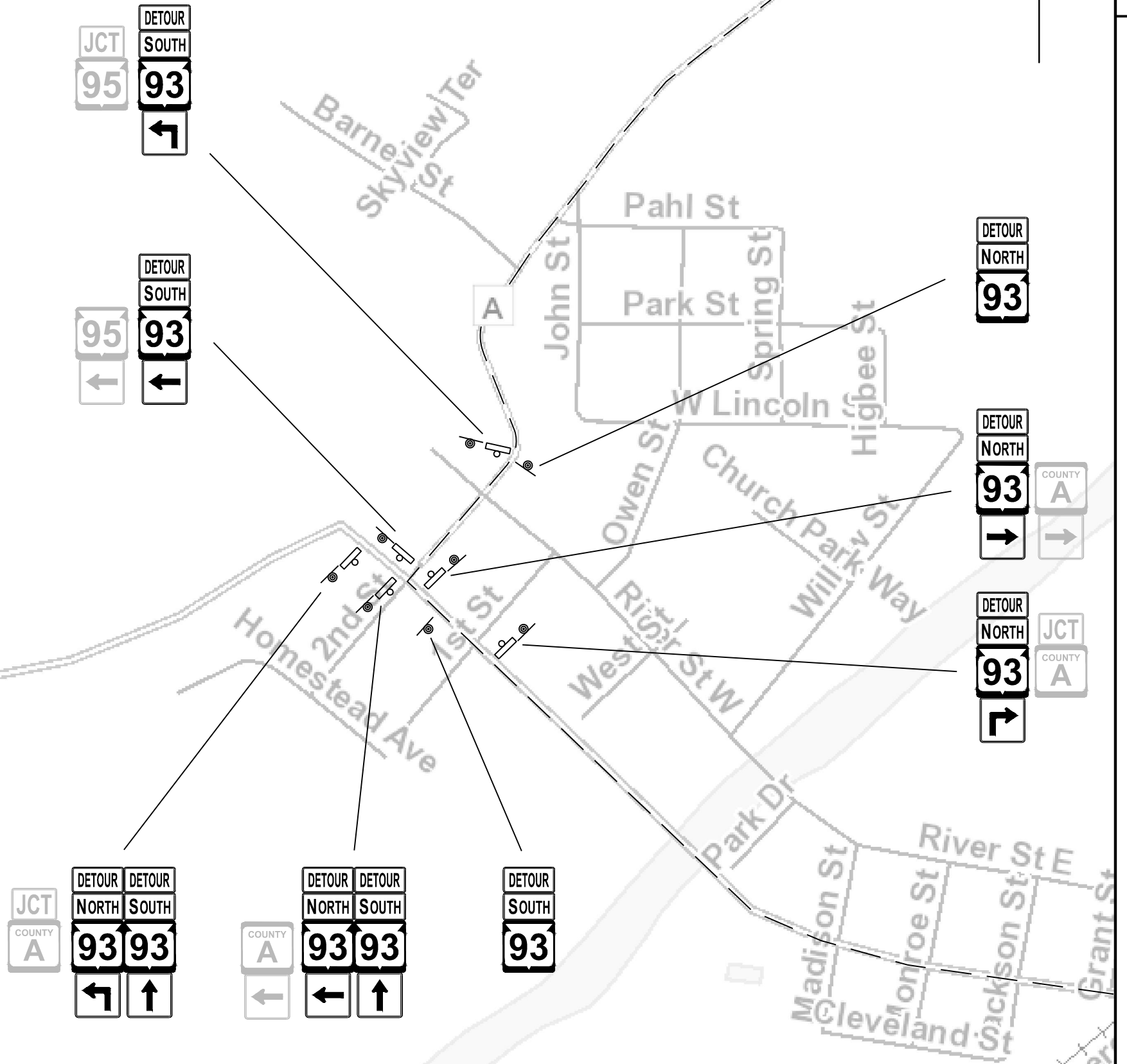
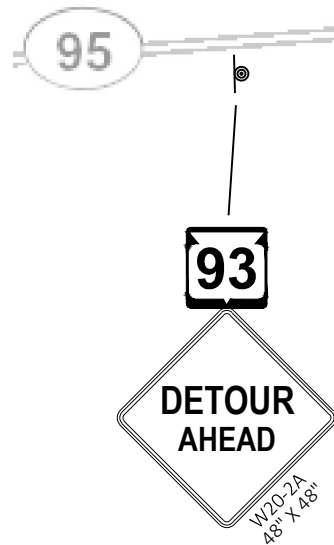
GENERAL NOTES

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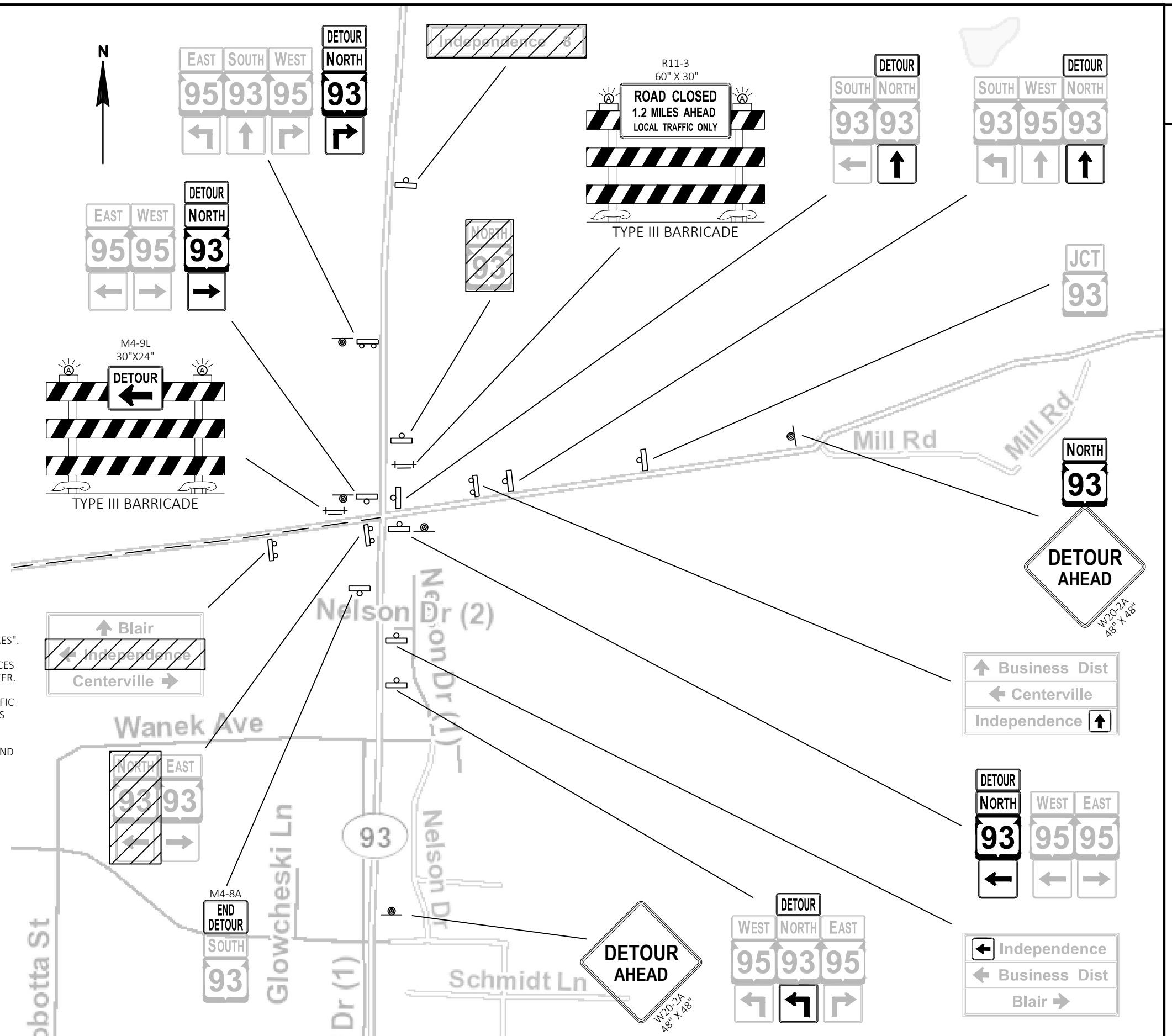
GENERAL NOTES

FOR DETAILS NOT SHOWN SEE S.D.D. "DETOUR SIGNING FOR MAINLINE CLOSURES" AND S.D.D. "BARRICADES AND SIGNS FOR MAINLINE CLOSURES".

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Estimate Of Quantities

7130-00-75					
Line	Item	Item Description	Unit	Total	Qty
0002	213.0100	Finishing Roadway (project) 01. 7130-00-75	EACH	1.000	1.000
0004	618.0100	Maintenance And Repair of Haul Roads (project) 01. 7130-00-75	EACH	1.000	1.000
0006	619.1000	Mobilization	EACH	1.000	1.000
0008	643.0420	Traffic Control Barricades Type III	DAY	180.000	180.000
0010	643.0705	Traffic Control Warning Lights Type A	DAY	276.000	276.000
0012	643.0900	Traffic Control Signs	DAY	1,236.000	1,236.000
0014	643.0920	Traffic Control Covering Signs Type II	EACH	4.000	4.000
0016	643.1050	Traffic Control Signs PCMS	DAY	28.000	28.000
0018	643.5000	Traffic Control	EACH	1.000	1.000
0020	646.1020	Marking Line Epoxy 4-Inch	LF	1,180.000	1,180.000
0022	646.5320	Marking Railroad Crossings Epoxy	EACH	1.000	1.000
0024	646.9000	Marking Removal Line 4-Inch	LF	1,180.000	1,180.000
0026	646.9300	Marking Removal Special Marking	EACH	3.000	3.000
0028	SPV.0180	Special 01. Fully Automated Resin Binder High Friction Surface Treatment	SY	3,265.000	3,265.000
0030	SPV.0180	Special 02. Fully Automated Polymer Overlay with Calcined Bauxite	SY	1,126.000	1,126.000

3

FINISHING ROADWAY (7130-00-75)				
CATEGORY	STATION	TO	STATION	213.0100
0010	97+56.44	-	115+15.78	EACH
			STH 93	1

MAINTENANCE AND REPAIR OF HAUL ROADS (7130-00-75)				
CATEGORY	STATION	TO	STATION	618.0100
0010	97+56.44	-	115+15.78	EACH
			STH 93	1

MOBILIZATION				
CATEGORY	STATION	TO	STATION	619.1000
0010	97+56.44	-	115+15.78	EACH
			STH 93	1

3

SPECIAL 01. FULLY AUTOMATED RESIN BINDER HIGH FRICTION SURFACE TREATMENT					
CATEGORY	STATION	TO	STATION	LOCATION	SPV.0180.01
0010	97+56.44	-	101+43.57	STH 93, RT	SY
0010	99+16.44	-	101+51.31	STH 93, LT	469
0010	104+40.13	-	114+35.78	STH 93, RT	287
0010	104+43.79	-	115+15.78	STH 93, LT	1202
TOTAL					1307
TOTAL					3265

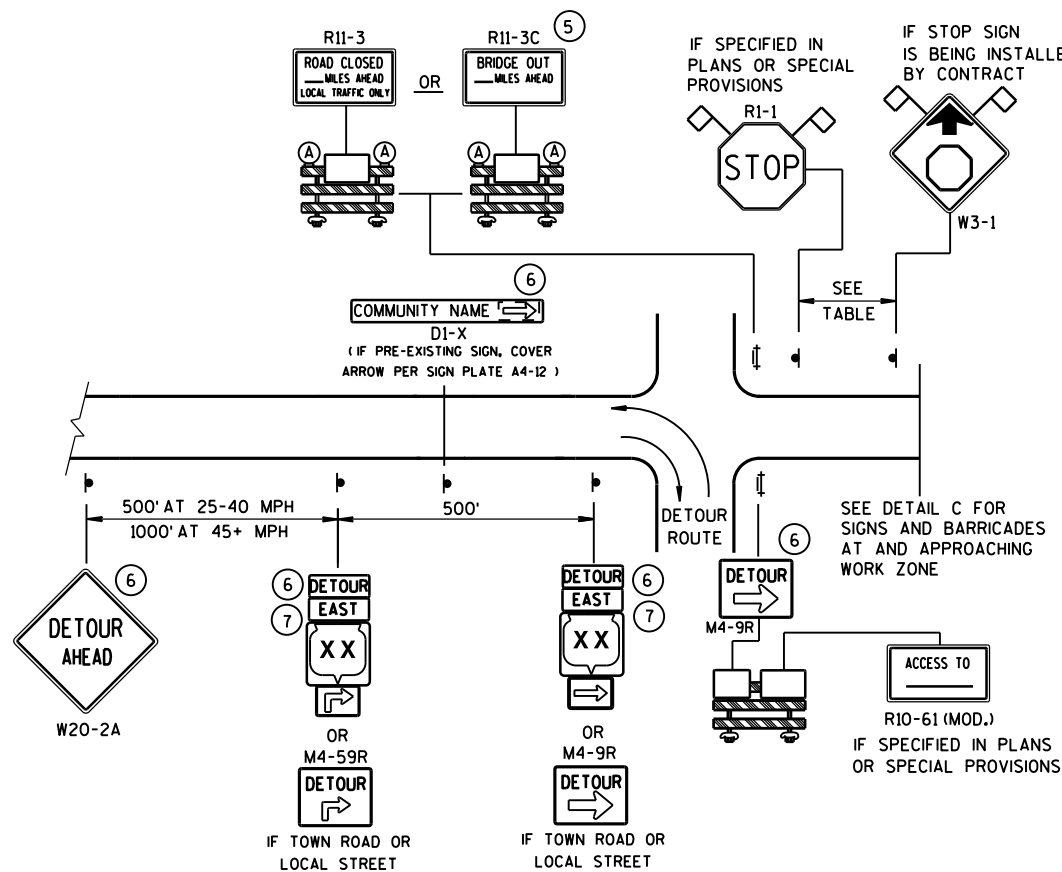
TRAFFIC CONTROL ITEMS								
CATEGORY	PROJECT	LOCATION	BARRICADES TYPE III 643.0420	WARNING LIGHTS TYPE A 643.0705	SIGNS 643.0900	COVERING SIGNS TYPE II 643.0920	SIGNS PCMS 643.1050	TRAFFIC CONTROL 643.5000
0010	7130-00-75	STH 93	DAY 180	DAY 276	DAY 1236	EACH 4	DAY 28	EACH 1
TOTALS			180	276	1236	4	28	1
ITEM 643.0920 QUANTITY IS FOR ONE CYCLE OF COVERING SIGNS								

PAVEMENT MARKINGS									
CATEGORY	STATION	TO	STATION	LOCATION	MARKING LINE EPOXY 4-INCH 646.1020	MARKING RAILROAD CROSSINGS EPOXY 646.5320	MARKING REMOVAL LINE 4-INCH 646.9000	MARKING REMOVAL SPECIAL MARKING 646.9300	REMARKS
0010	101+47.83	-	104+45.66	STH 93	LF 590	EACH -	LF 590	-	DOUBLE YELLOW CENTER LINE
0010	101+47.83	-	104+45.66	STH 93	590	-	590	-	WHITE EDGE LINE
0010			105+44.50	STH 93	-	1	-	3	RR X-ING SYMBOL
TOTALS					1180	1	1180	3	
NOTE: THE REMOVAL OF A SINGLE RAILROAD CROSSING SYMBOL IS MEASURED AS THREE (3) INDIVIDUAL SYMBOL REMOVALS									

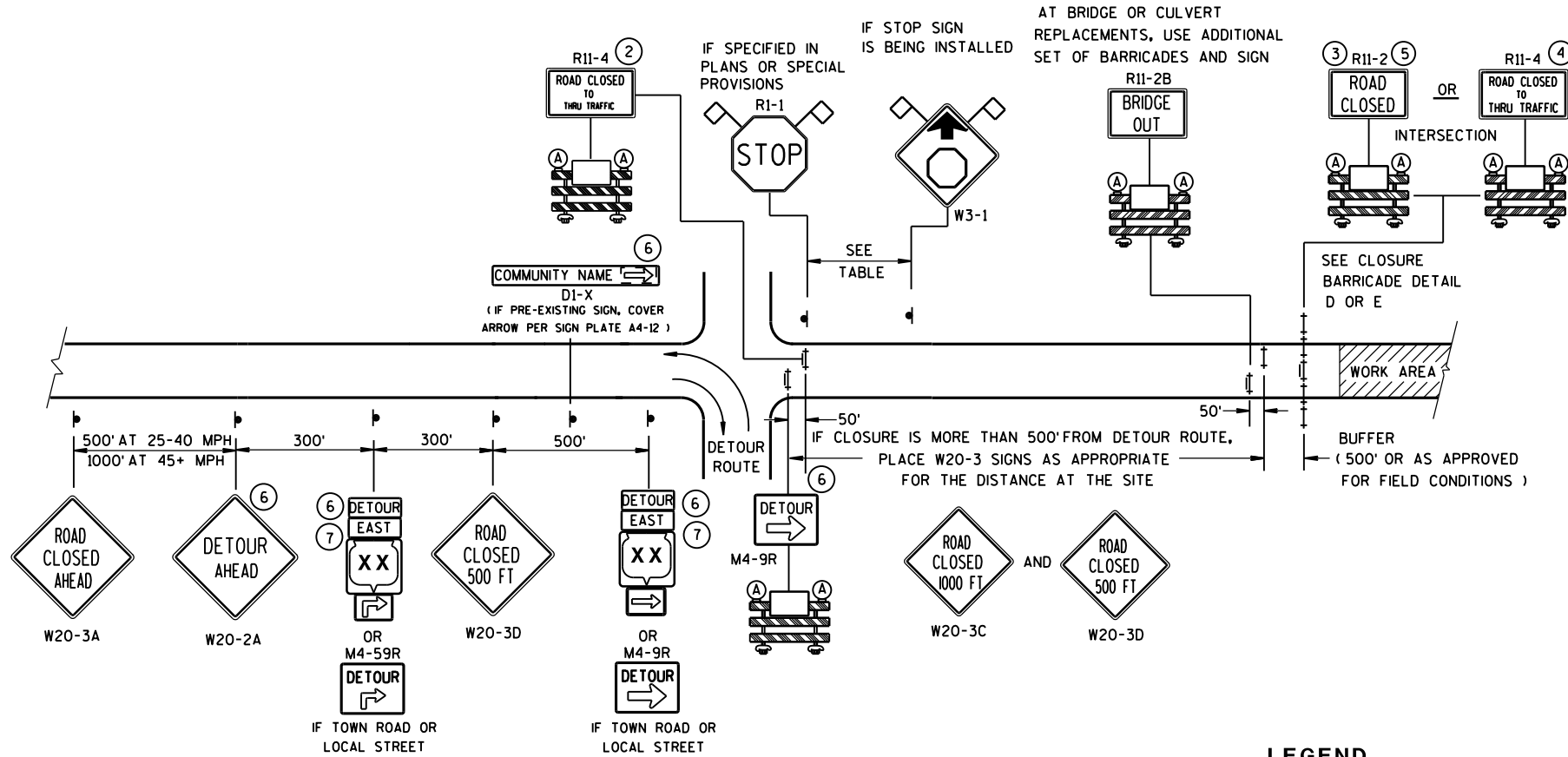
PROJECT NO: 7130-00-75	HWY: STH 93	COUNTY: TREMPEALEAU	MISCELLANEOUS QUANTITIES	SHEET:	E
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Standard Detail Drawing List

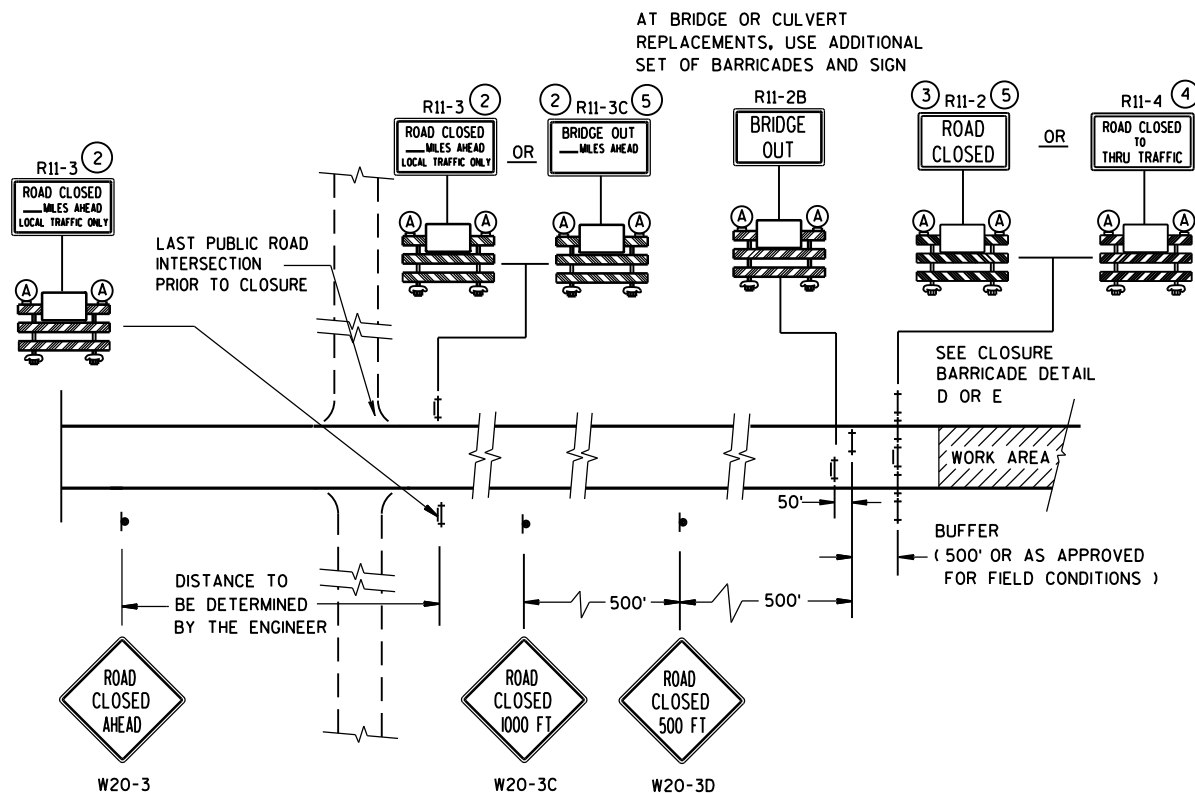
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C09-11A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C19-05A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS



DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR
WORK ZONE GREATER THAN 1/2 MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR
WORK ZONE LESS THAN 1/2 MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

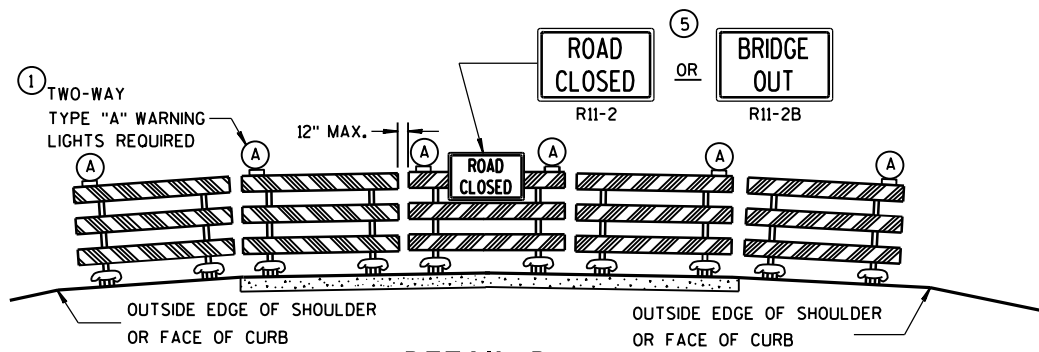
SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

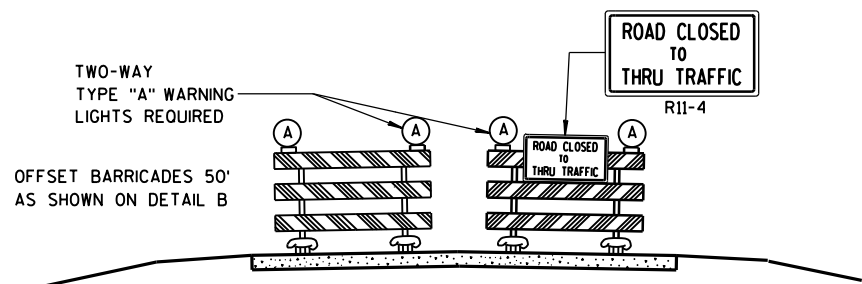
**BARRICADES AND SIGNS
FOR
MAINLINE CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 /S/ Peter Amokobe Atepe
DATE STATEWIDE WORK ZONE TRAFFIC
FHWA SAFETY ENGINEER



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

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

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

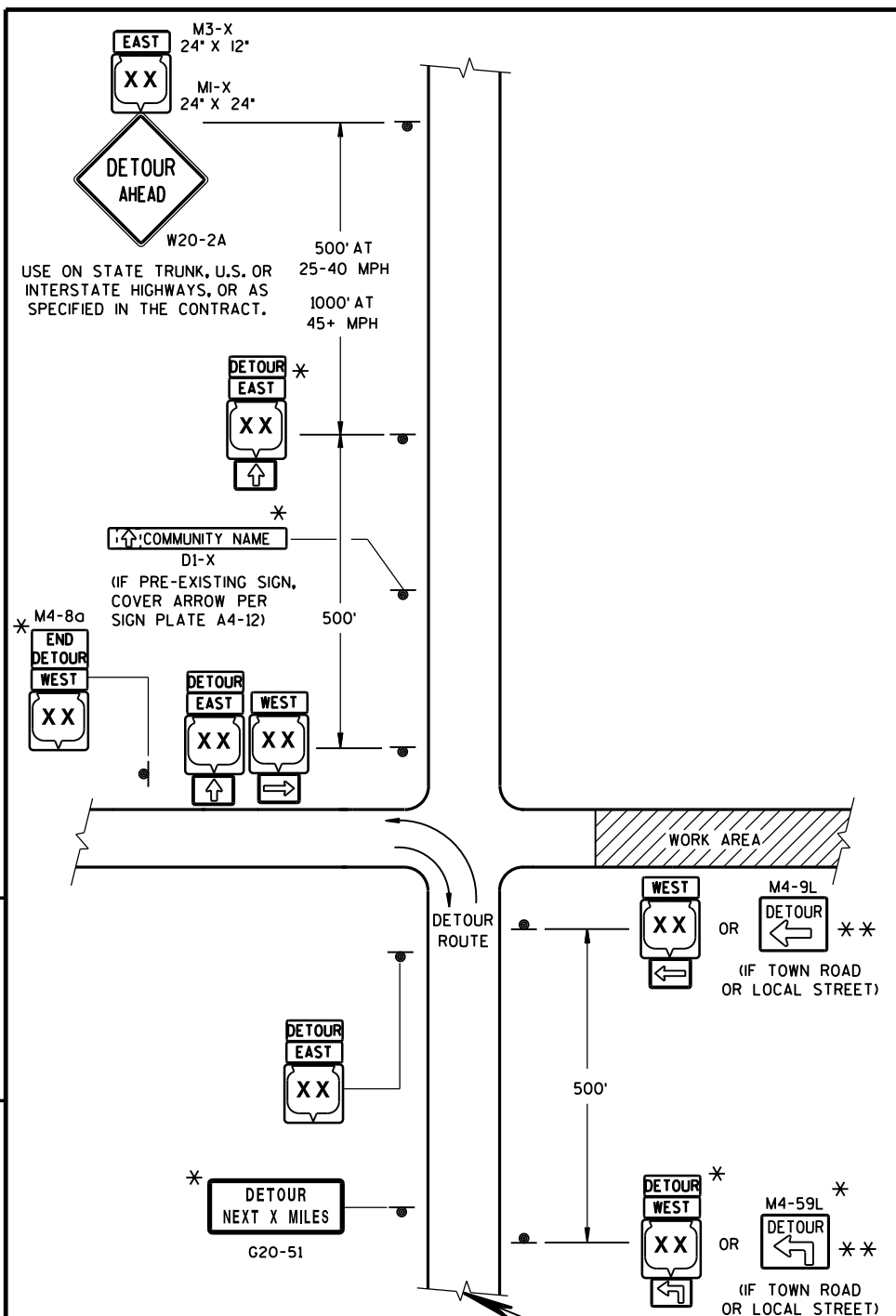
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

- 1 TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).
- 2 THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- 3 FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- 4 FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- 5 FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- 6 INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- 7 "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

**BARRICADES AND SIGNS
FOR
MAINLINE CLOSURES**

**STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION**

Sept. 2015 /S/ Peter Amokobe Atepe
DATE STATEWIDE WORK ZONE TRAFFIC
FHWA SAFETY ENGINEER



THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

MATCH POINT

DETAIL F
DETOUR SIGNING

GENERAL NOTES

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

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS, MODIFY EXISTING SIGNS WHERE POSSIBLE.

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

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

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

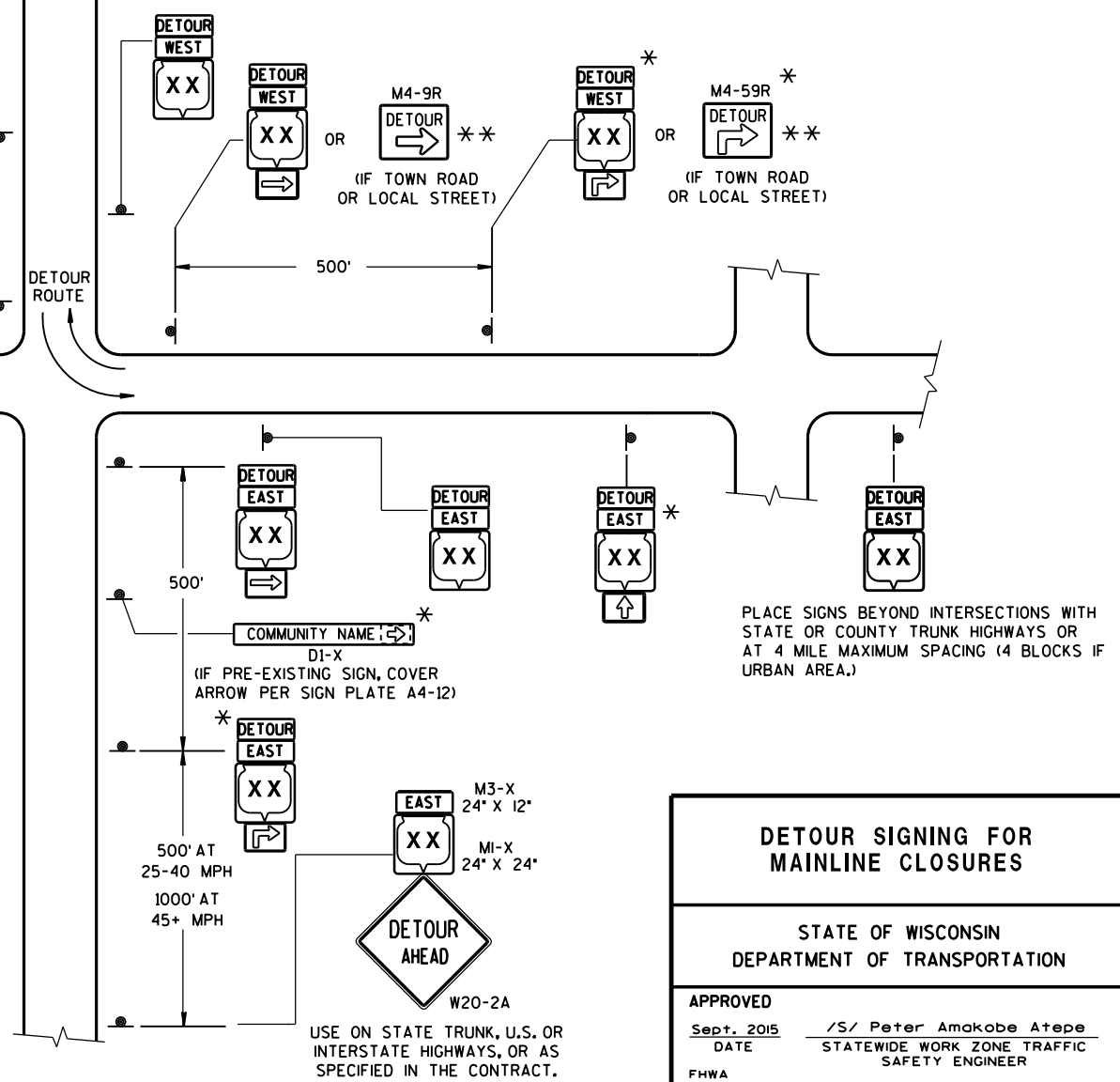
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

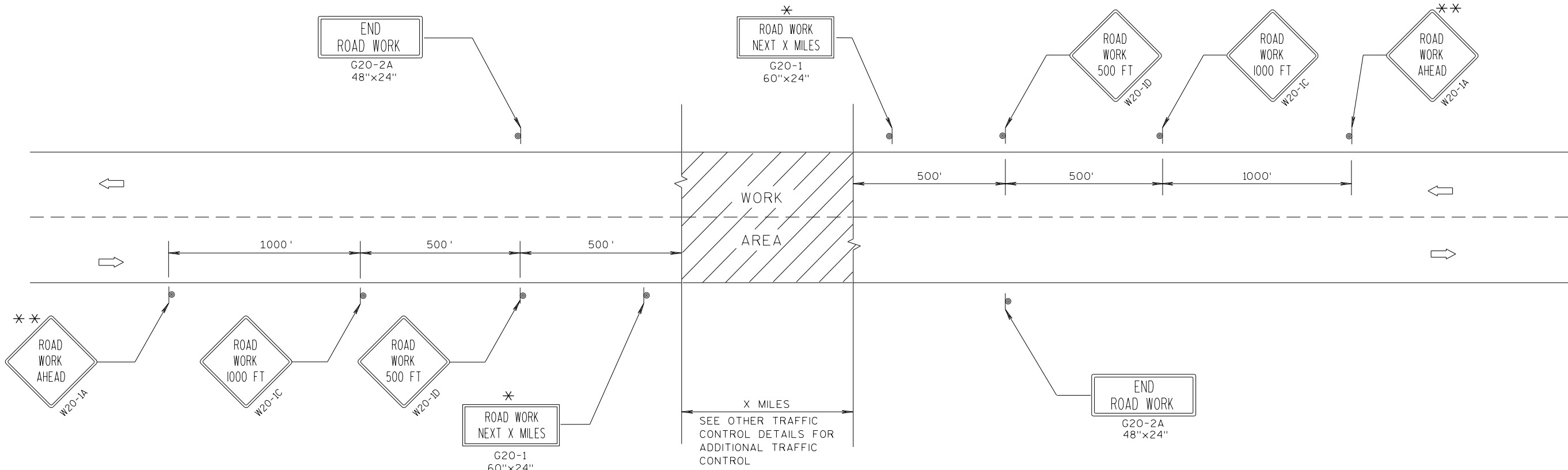
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 SHALL BE 48" X 48".
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



DETOUR SIGNING FOR MAINLINE CLOSURES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED DATE FWHA	/S/ Peter Amakobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

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

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

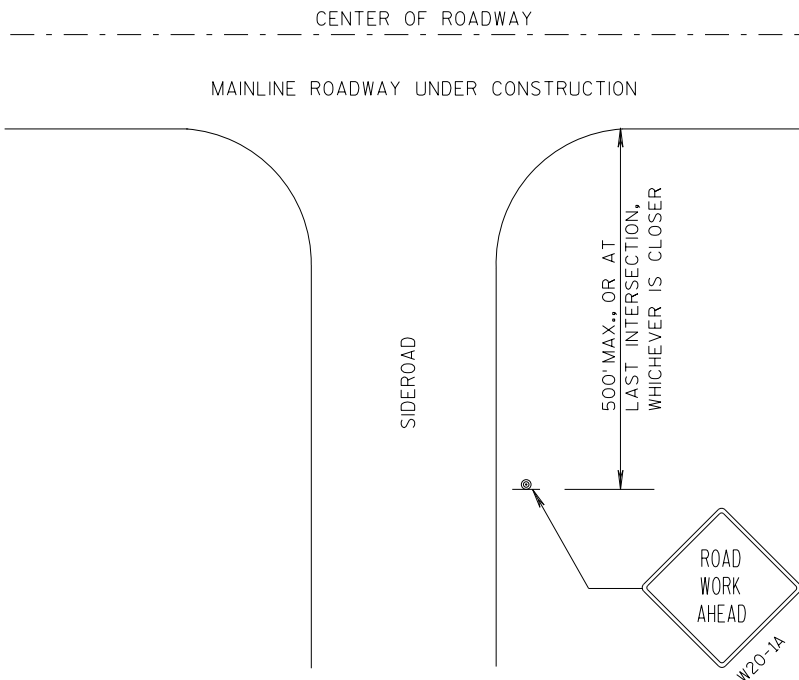
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

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

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



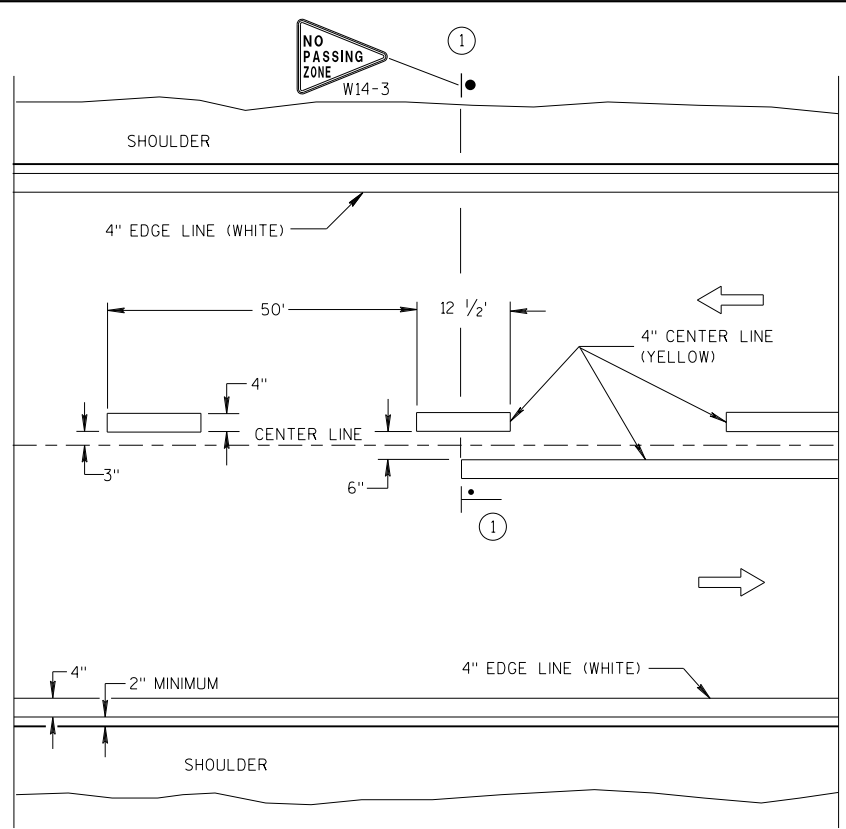
LEGEND

- ⊙ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ▨ WORK AREA

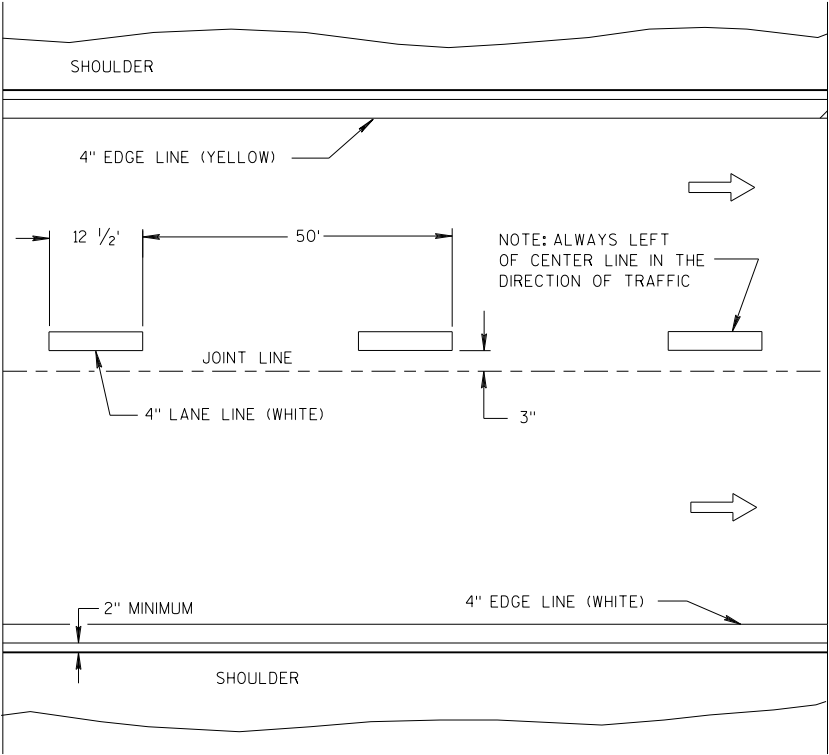
TRAFFIC CONTROL, ADVANCE
WARNING SIGNS 45 M.P.H.
OR GREATER TWO-WAY
UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER
FHWA

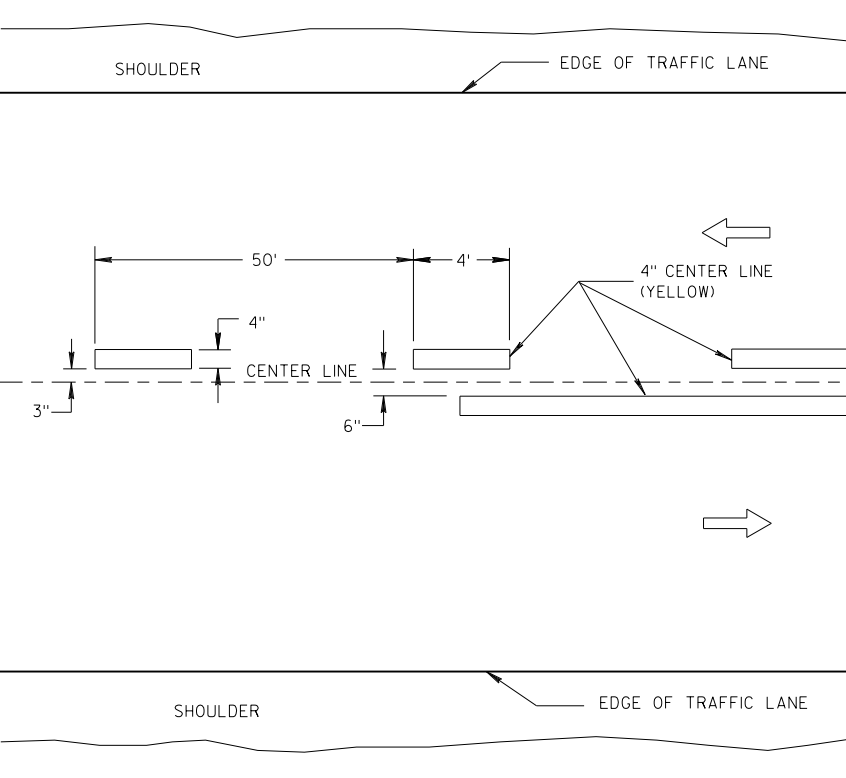


TWO WAY TRAFFIC

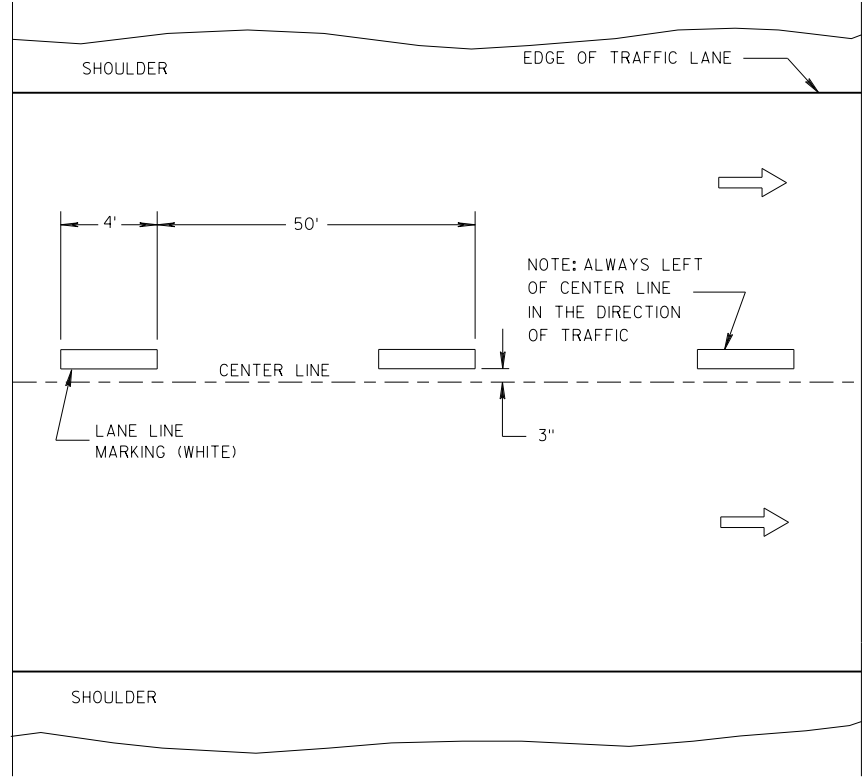


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

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

① LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

NOTE

ARROW SYMBOL (➡) SHOWS DIRECTION OF TRAVEL

LEGEND

- "T" MARKING
- POST MOUNTED SIGN

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MARKING ENGINEER
FHWA



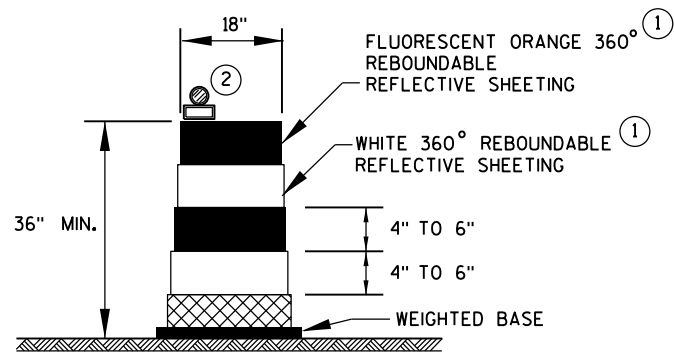
GENERAL NOTES

RETRACE EXISTING SYMBOL WHERE EXISTING SYMBOLS ARE PLACED.

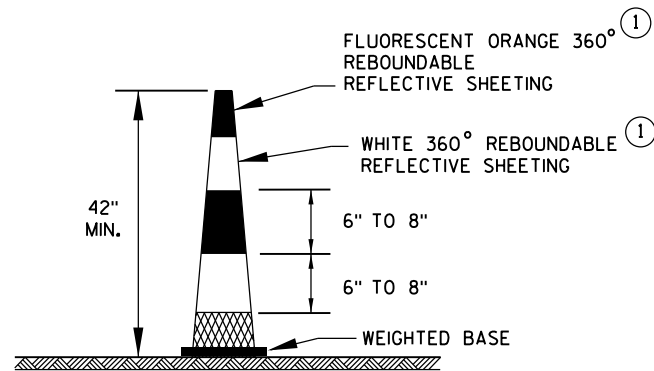
-
- 1'-0"

Posted Speed (M.P.H.)	Dimension Range (Feet)
25	150* - 250
30	200* - 300
35	250* - 450
40	300* - 500
45	400* - 650
50	550* - 800
55	750* - 1000
60	1000* - 1250
65	1000* - 1250

FHWA



DRUM

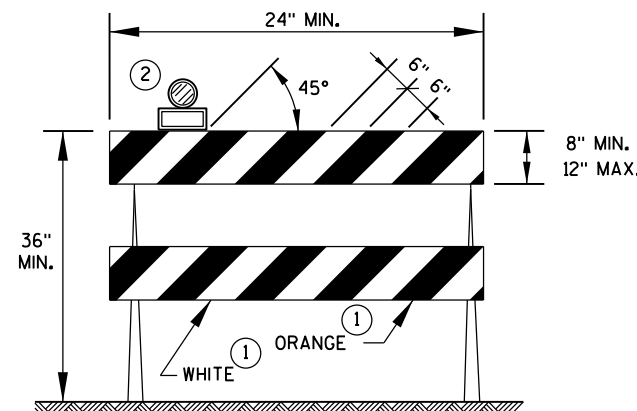


42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

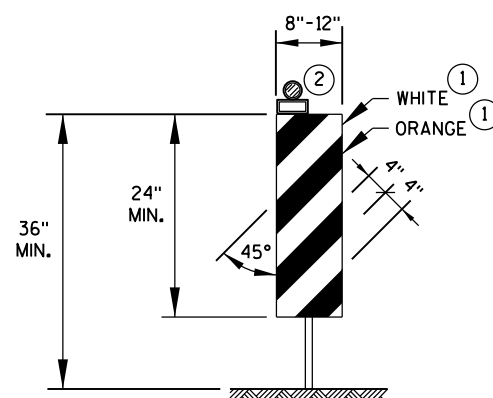
GENERAL NOTES

- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



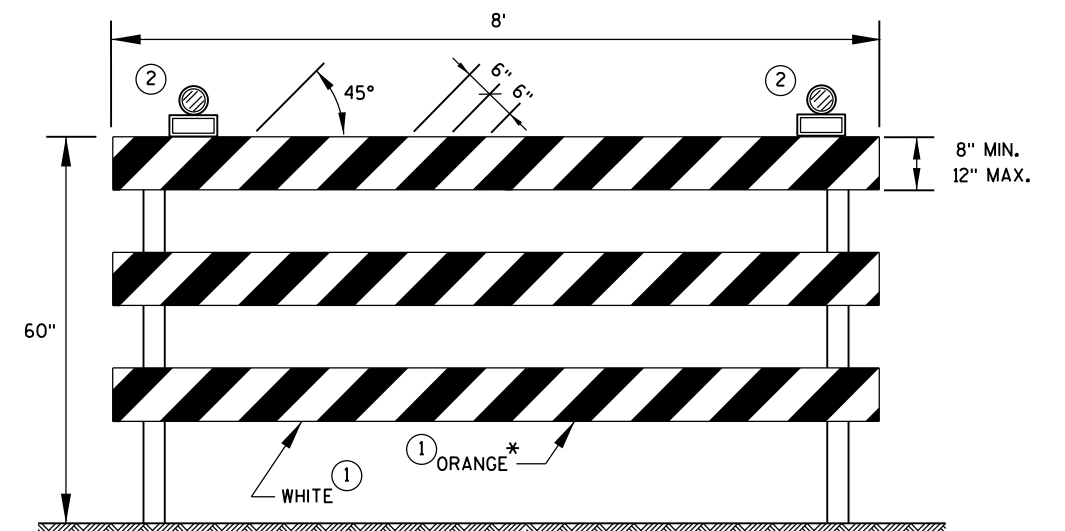
TYPE 2 BARRICADE

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



VERTICAL PANEL

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



TYPE 3 BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION, USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

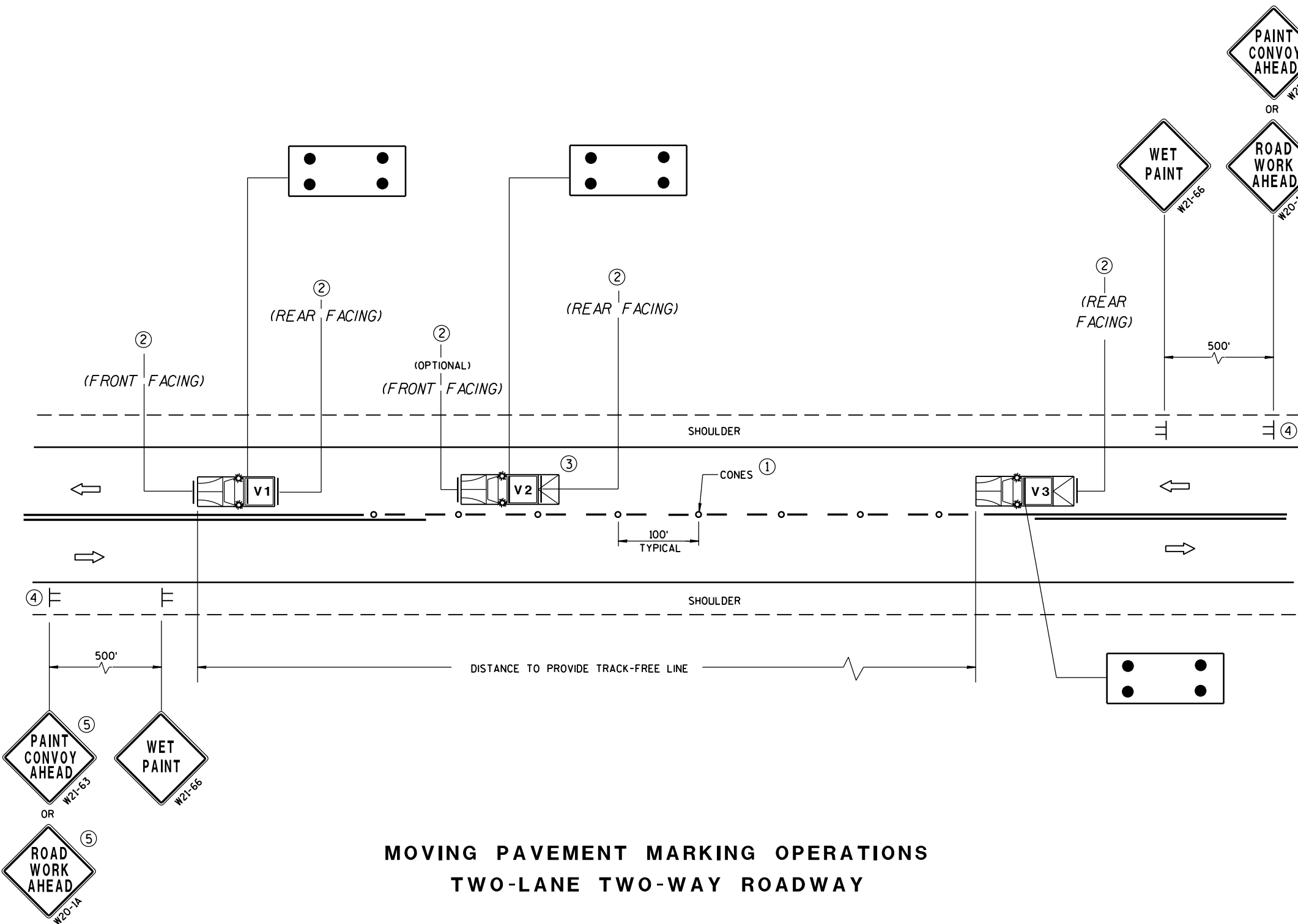
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA



GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.



ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.





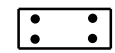
THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

- ① CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.
- ② USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.
 OR 
- ③ OPTIONAL TRUCK-MOUNTED ATTENUATOR.
- ④ SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.
- ⑤ IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

- V1** LEAD VEHICLE
- V2** SHADOW VEHICLE
- V3** TRAIL VEHICLE WITH TMA
-  **TMA** TRUCK-MOUNTED ATTENUATOR
-  SIGN ON TEMPORARY SUPPORT
-  DIRECTION OF TRAFFIC
-  CONES
-  FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED DATE Sept., 2017	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

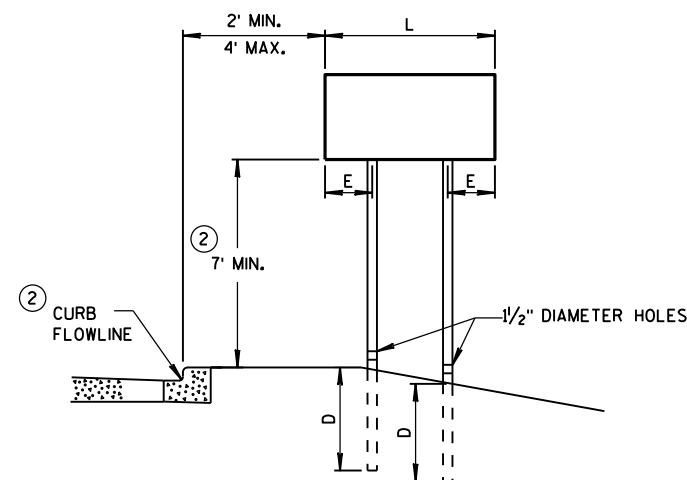
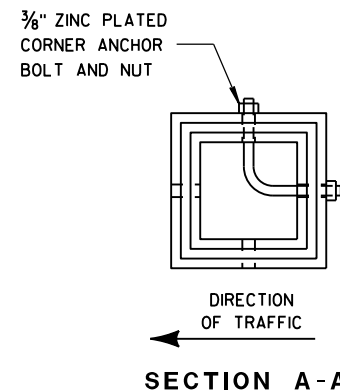


DETAIL OF TUBULAR
STEEL SIGN POST

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

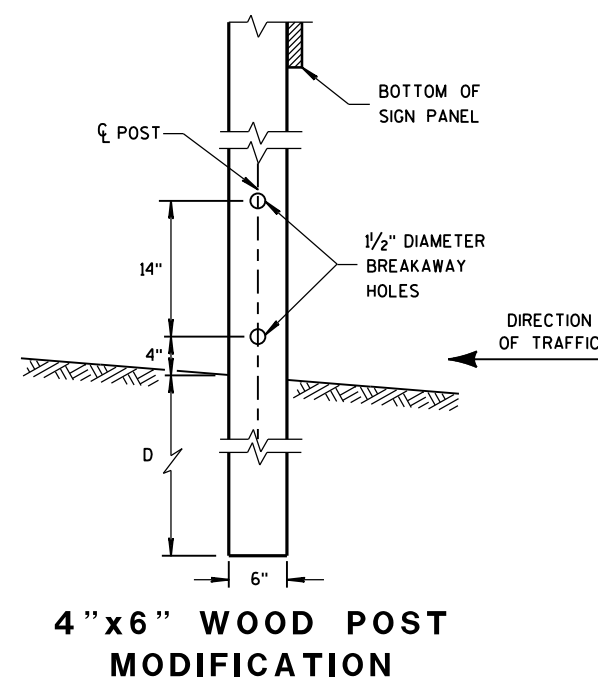
SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL
BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).
SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED
ON TUBULAR STEEL POSTS.



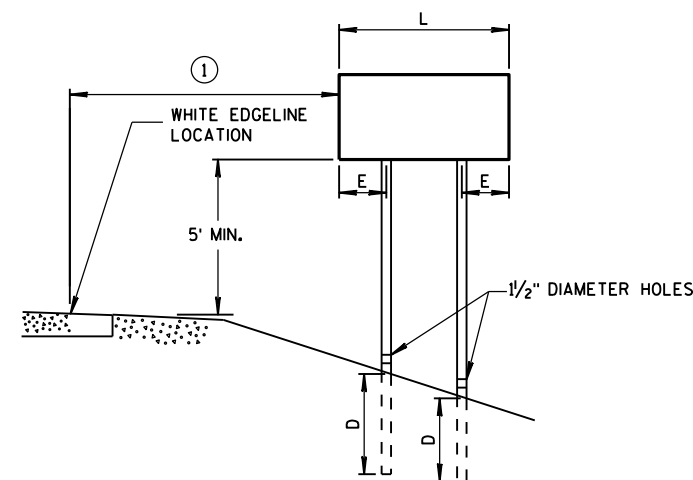
URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST EMBEDMENT DEPTH	
AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'



4 "x6 " WOOD POST
MODIFICATION



RURAL AREA

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

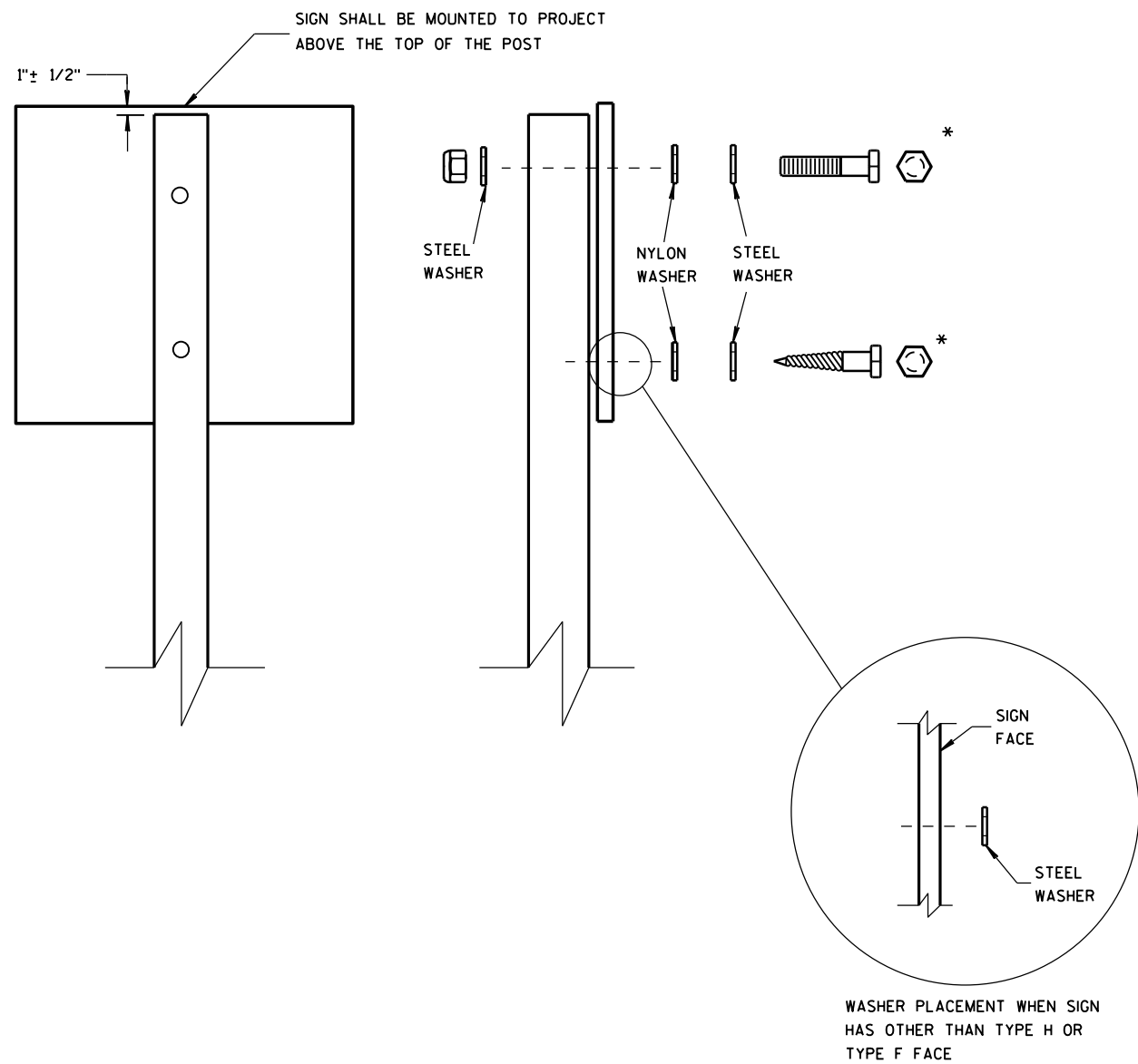
SEE NOTE ③

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.

TEMPORARY TRAFFIC CONTROL
SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



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.

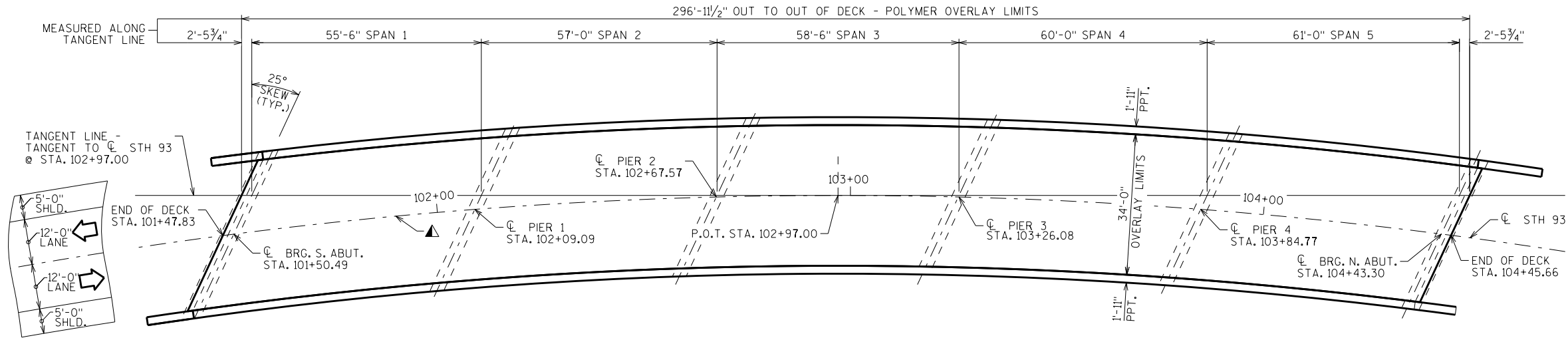
ATTACHMENT OF SIGNS TO POSTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

DESIGN DATA

LIVE LOAD:
INVENTORY RATING: HS-17
OPERATING RATING: HS-28
MAXIMUM STANDARD PERMIT VEHICLE LOAD = 190 KIPS

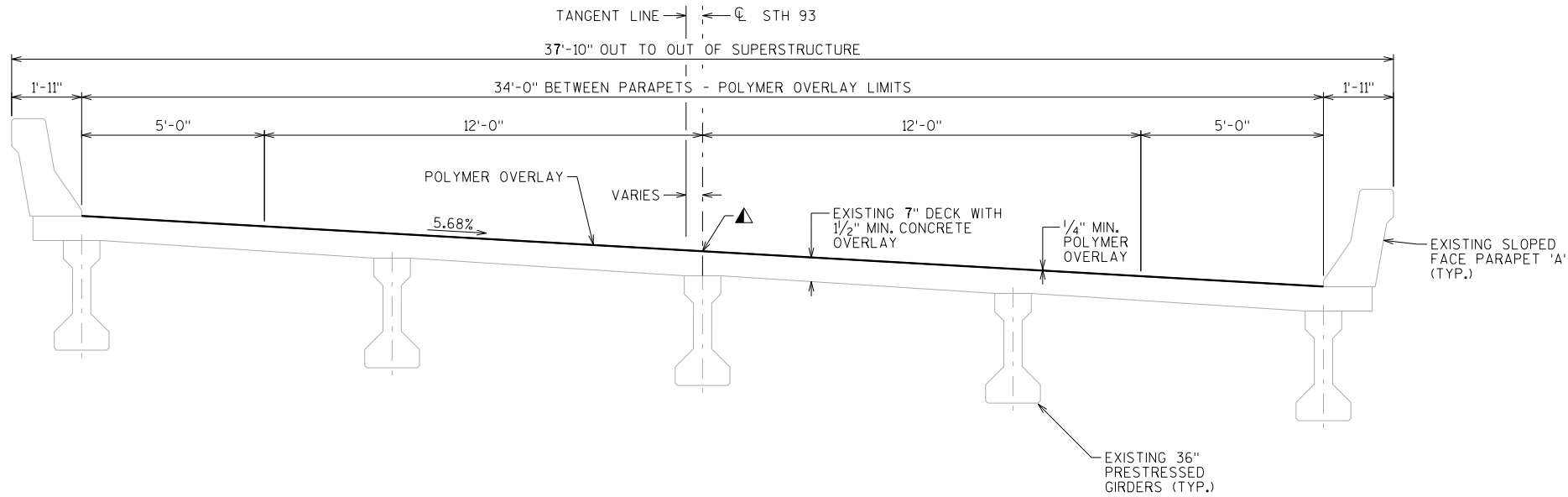
GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.
DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "FULLY AUTOMATED POLYMER OVERLAY WITH CALCINED BAUXITE".



PLAN

5 SPAN 36" PRESTRESSED GIRDER BRIDGE



CROSS SECTION THRU ROADWAY

(LOOKING UPSTATION)

OPTIONAL LONGITUDINAL CONSTRUCTION JOINT.

CURVE DATA

STH 93
P.I. = 101+22.34
Δ = 60°56'33"
D = 5°00'
T = 674.22'
L = 1218.85'
R = 1145.92'
S.E. = 5.68%
P.C. = 94+48.12
P.T. = 106+66.97

TRAFFIC VOLUME


STH 93
ADT = 9,600 (2038)
R.D.S. = 60 M.P.H.

LIST OF DRAWINGS

1. POLYMER OVERLAY

STRUCTURE DESIGN CONTACTS:

DAN MONROE (608) 266-8490
LAURA SHADEWALD (608) 267-9592

NO.	DATE	REVISION	BY
 BUREAU OF STRUCTURES			
ACCEPTED		2/5/19	
CHIEF STRUCTURES DESIGN ENGINEER		DATE	
STRUCTURE B-61-54			
STH 93 OVER TREMPPEALEAU RIVER			
COUNTY	TREMPPEALEAU	TOWN/CITY/VILLAGE	ARCADIA
DESIGN SPEC.	REHABILITATION N/A		
DESIGNED BY	DLM	DESIGNED CK'D.	MJL
DRAWN BY	DLM	PLANS CK'D.	MJL
POLYMER OVERLAY			SHEET 1 OF 1

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
SPV.0180	FULLY AUTOMATED POLYMER OVERLAY WITH CALCINED BAUXITE	SY	1126

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

<http://www.dot.wisconsin.gov>