

EAU MAR 13
PROJECT ID: 1023-07-60
WITH:
COUNTY: JACKSON

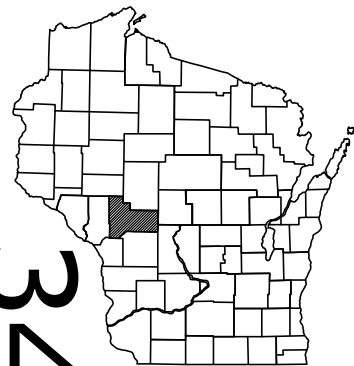
ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details
Section No. 3	Estimate of Quantities
Section No. 3	Miscellaneous Quantities
Section No. 5	Plan
Section No. 6	Standard Detail Drawings
Section No. 7	Sign Plates
Section No. 8	Structure Plans

TOTAL SHEETS = 28

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY REHABILITATION-MAINTENANCE PROJECT
OSSEO - BLACK RIVER FALLS
4 BRIDGES B-27-0020, 0047, 0052, 0053
IH 94
JACKSON COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1023-07-60		



STATE PROJECT NUMBER
1023-07-60

PROJECT LOCATION 3 OF 4
STRUCTURE B-27-0052
(GILBERTSON RD OVER IH 94)
CL EB IH 94 STA 453+12
X = 243,362N
Y = 1,707,048E

PROJECT LOCATION 2 OF 4
STRUCTURE B-27-0047
(HAUGEN RD OVER IH 94)
CL EB IH 94 STA 534+47
X = 236,825N
Y = 1,711,232E

PROJECT LOCATION 4 OF 4
STRUCTURE B-27-0053
(CASTLE MOUND RD OVER IH 94)
CL EB IH 94 STA 1641+13
X = 163,106N
Y = 1,789,721E

DESIGN DESIGNATION

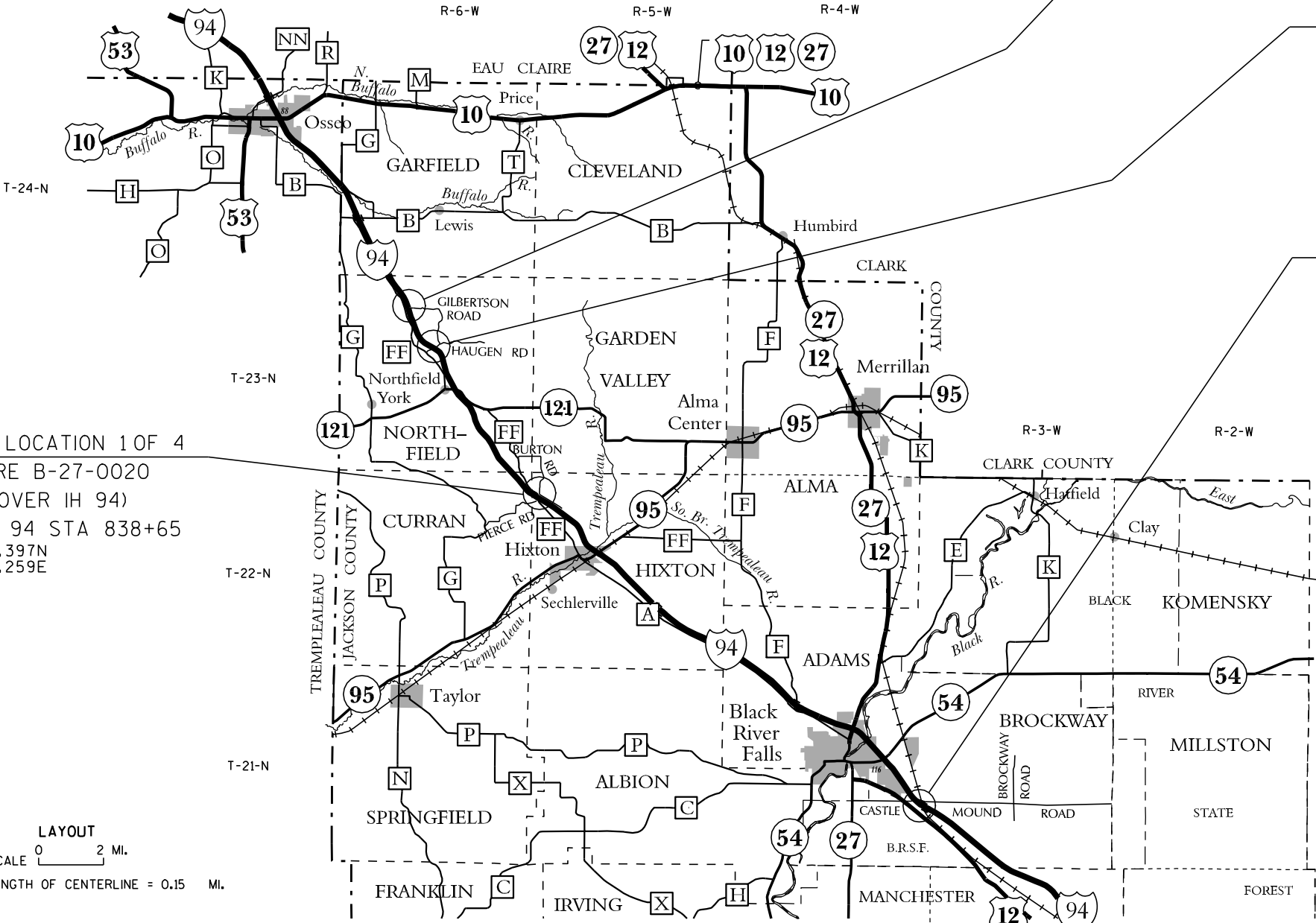
A.A.D.T. 2012	= 25,700 AVG
A.A.D.T. 2022	= 29,700 AVG
D.H.V.	= NA
D.D.	= NA
T.	= NA
DESIGN SPEED	= 70 MPH
ESALS	= NA

CONVENTIONAL SYMBOLS

PLAN	
CORPORATE LIMITS	////
REFERENCE LINE	—
COMBUSTIBLE FLUIDS	CAUTION
UTILITIES	
ELECTRIC	— E —
FIBER OPTIC	— FO —
GAS	— G —
SANITARY SEWER	— SAN —
STORM SEWER	— SS —
TELEPHONE	— T —
WATER	— W —
UTILITY PEDESTAL	⊕
POWER POLE	⊖
TELEPHONE POLE	⊙

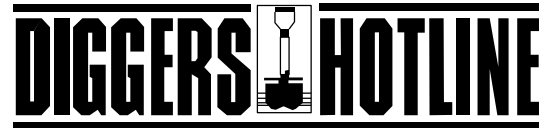
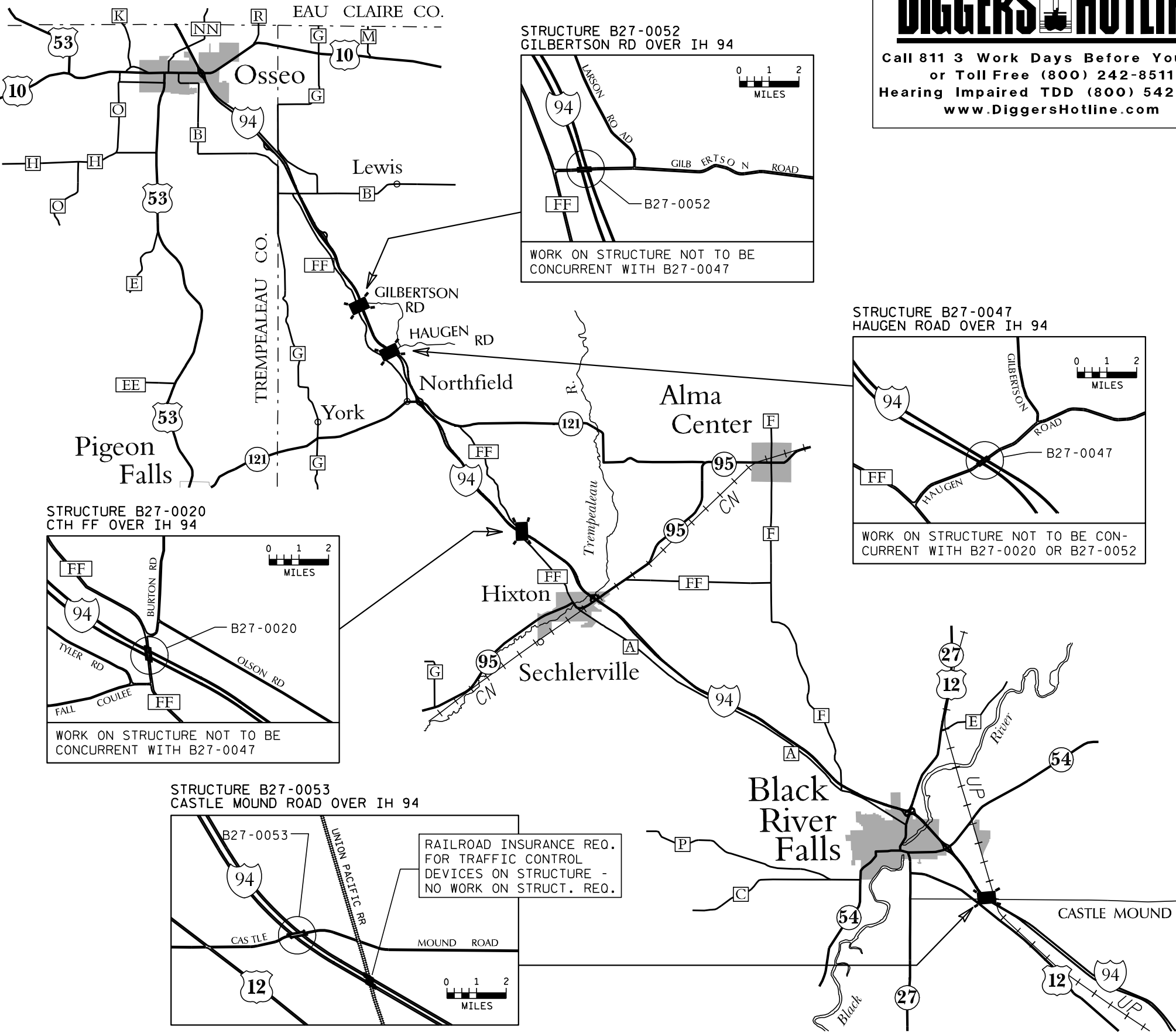
PROJECT LOCATION 1 OF 4
STRUCTURE B-27-0020
(CTH FF OVER IH 94)
CL EB IH 94 STA 838+65
X = 212,397N
Y = 1,728,259E

LAYOUT
SCALE 0 2 MI.
TOTAL NET LENGTH OF CENTERLINE = 0.15 MI.



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
PREPARED BY	
Surveyor	NW REGION
Designer	WILLIAM KOVALESKI, JR PE
Project Manager	WILLIAM KOVALESKI, JR PE
Regional Examiner	DANIAL OJIBWAY
Regional Supervisor	DAVID OSTROWSKI, PE
C.O. Examiner	JE
APPROVED FOR THE DEPARTMENT	
DATE: 01-10-13	(Signature)

PROJECT VICINITY MAP



Call 811 3 Work Days Before You Dig
or Toll Free (800) 242-8511
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

- GENERAL NOTES:
- 1) WORK CONSISTS OF TRAFFIC CONTROL, CONTAINMENT ENCLOSURE ERECTION, ABRASIVE BLASTING SURFACE PREPERATION, AND APPLICATION OF NEW COATING SYSTEM FOR ALL STRUCTURAL STEEL OF PROJECT BRIDGE.
 - 2) ENCLOSURE AND MATERIALS SHALL BE MAINTAINED TAUT AND IN SUCH A MANNER THAT IT WILL NOT OBSTRUCT/DISTRACT THE VIEW OF OR SNAG ON ANY PASSING VEHICLES.
 - 3) IH 94 WILL BE KEPT OPEN TO A MIN. OF ONE LANE OF TRAFFIC AT ALL TIMES.
 - 4) SIGNS AND DEVICES WILL BE IN CONFORMANCE WITH THE LATEST WISCONSIN MANUAL OF TRAFFIC CONTROL DEVICES (WMUTCD).
 - 5) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

UTILITIES

- THE FOLLOWING UTILITIES HAVE FACILITIES WITH SERVICES IN THE PROJECT VICINITY - NO ADJUSTMENTS ARE ANTICIPATED.
- | | |
|--|---|
| AT&T LEGACY
CONTACT: CARL DONAHUE
866 ROCK CREEK RD
PLANO, IL 60545
(715) 833-2054 <COM> | NORTHERN STATES POWER (XCEL)
CONTACT: NANCY DOTSON
1414 W HAMILTON AVE
EAU CLAIRE, WI 54702
(715) 737-2574 <COM/EL> |
| CENTURYTEL OF CENTRAL WI.
CONTACT: STEVE BLADO
333 N FRONT ST
LA CROSSE, WI 54602
(608) 796-5543 <COM> | BLACK RIVER FALLS MUNIC UTIL.
CONTACT: JERRY EWERT
119 N. WATER ST.
BLACK RIVER FALLS, WI 54615
(715) 284-9463 <EL/WTR> |
| CHARTER COMMUNICATIONS
CONTACT: JAMEY OLDEEN
2304 S MAIN ST
RICE LAKE, WI 54868
(715) 236-5005 <COM> | JACKSON ELECTRIC
CONTACT: KEVIN BABCOCK
119 HARRISON ST
BLACK RIVER FALLS, WI 54615
(715) 284-5385 <EL> |
| TRI-COUNTY COMMUNICATIONS
CONTACT: MIKE LIGHTFOOT
23451 WHITEHALL RD
INDEPENDENCE, WI 54747
(715) 985-3004 <COM> | RIVERLAND ENERGY COOP
CONTACT: DAVE WOYICKI
625 W MAIN ST
ARCADIA, WI 54612-0277
(608) 323-3381 <EL> |
| WISDOT
CONTACT: JEFF MADSON
433 W. ST. PAUL AVE.
MILWAUKEE, WI 53203
(414) 225-3723 <COM> | BROCKWAY SANITARY DIST. #1
CONTACT: DALE HOFF
236 GEBHARDT RD
BLACK RIVER FALLS, WI 54615
(715) 284-5234 <SWR/WTR> |
| WISCONSIN GAS (WE ENERGY)
CONTACT: DAN SANDE
333 W EVERETT ST
MILWAUKEE, WI 53203
(414) 221-4578 <GAS> | NORTHFIELD SANITARY DIST. #2
W15636 MILL ROAD
HIXTON, WI 54635
(715) 984-2240 <WTR> |

AREA CONTACTS

- | | |
|---|---|
| STATE OF WISCONSIN

DNR CONTACT: NICK SCHAFF
DNR/DOT LIAISON
OFC. OF ENRG. & ENV. REVIEW
PHONE: (715) 839-1609

WISDOT STRUCT. MAINT. ENGINEER
GREGORY HAIG
CELL: (715) 577-0646

WISDOT BRPAINT & HAZMAT COORD.
WILLIAM KOVALESKI, JR
PHONE: (715) 392-7832
CELL: (715) 225-9431

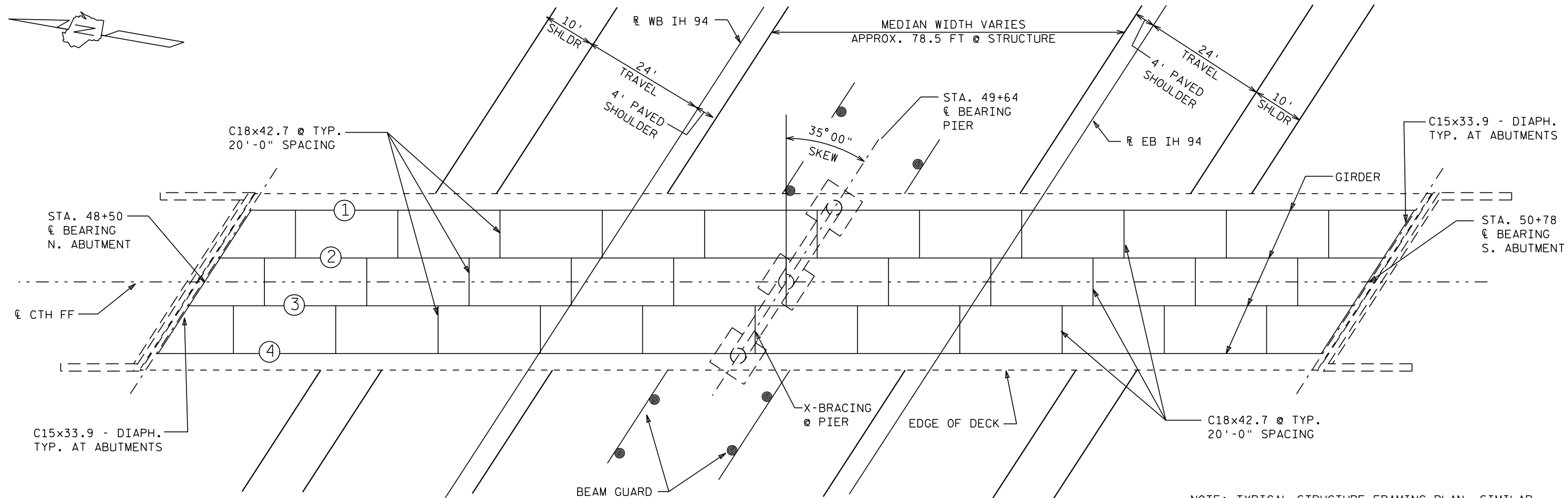
WISDOT ENVIRONMENTAL COORD.
TROY STAPELMANN
PHONE: (715) 836-3911 | JACKSON COUNTY

EMERGENCY MANAGEMENT
COORDINATOR: JOHN ROSS
307 MAIN STREET
BLK RVR FALLS, WI 54615
OFFICE: (715) 284-0263

COUNTY SHERIFF
SHERIFF: DUANE M. WALDERA
30 N. 3RD STREET
BLK RVR FALLS, WI 54615
NON-EMERG.: (715) 284-5357
EMERGENCY: 911

HIGHWAY COMMISSIONER
COMMISH: RANDY ANDERSON
119 HARRISON ST.
BLK RVR FALLS, WI 54615
OFFICE: (715) 284-0233 |
|---|---|

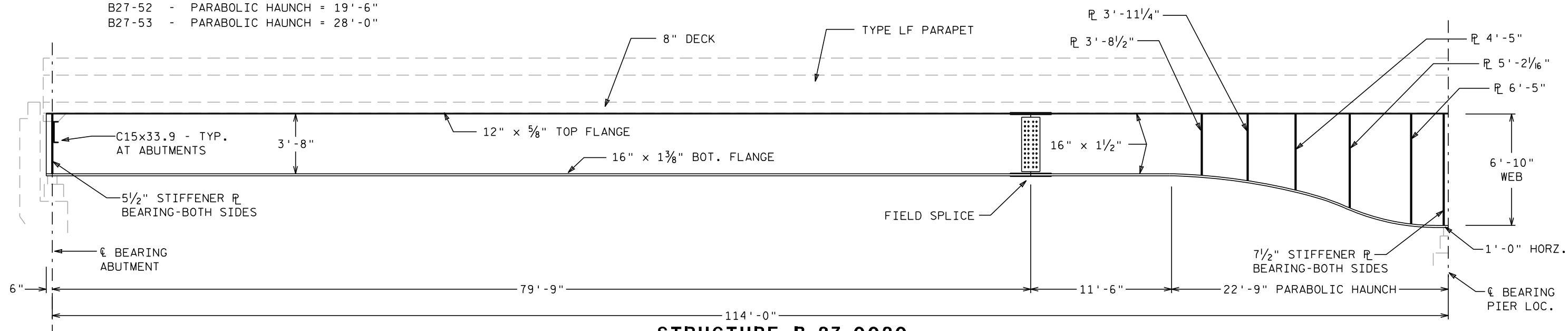
2



STRUCTURE B-27-0020
FRAMING PLAN

2

NOTE: TYPICAL STRUCTURE GIRDER PROFILE.
SIMILAR FOR STRUCTURES B-27-47, 52, & 53
B27-47 - PARABOLIC HAUNCH = 20'-10⁷/₈"
B27-52 - PARABOLIC HAUNCH = 19'-6"
B27-53 - PARABOLIC HAUNCH = 28'-0"



STRUCTURE B-27-0020
LONGITUDINAL SECTION - HALF GIRDER

PROJECT NO:1023-07-60

HWY: IH 94

COUNTY: JACKSON

STRUCTURE DETAILS - B27-20 (CTH FF)

SHEET

E

FILE NAME : C:\Users\DOTW\JK_NWRegion\005 NW DESIGN PROJECTS\1023-07-60 JACKSON IH 94\Design\ dgn\FINALS\10230760_Struct-REV1-13.dgn PLOT DATE : 14-JAN-2013 21:49

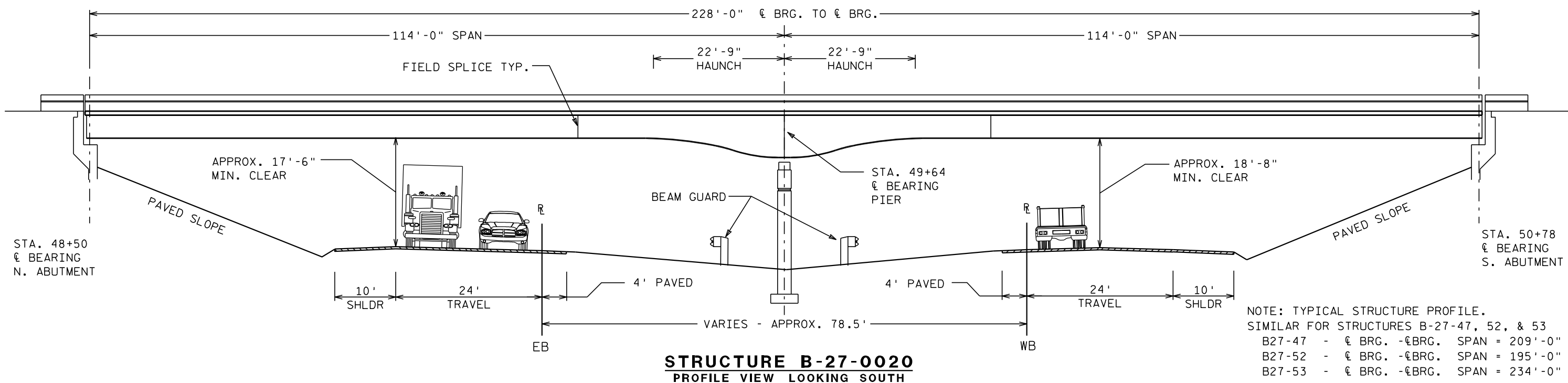
PLOT BY : dotw\jk

PLOT NAME :

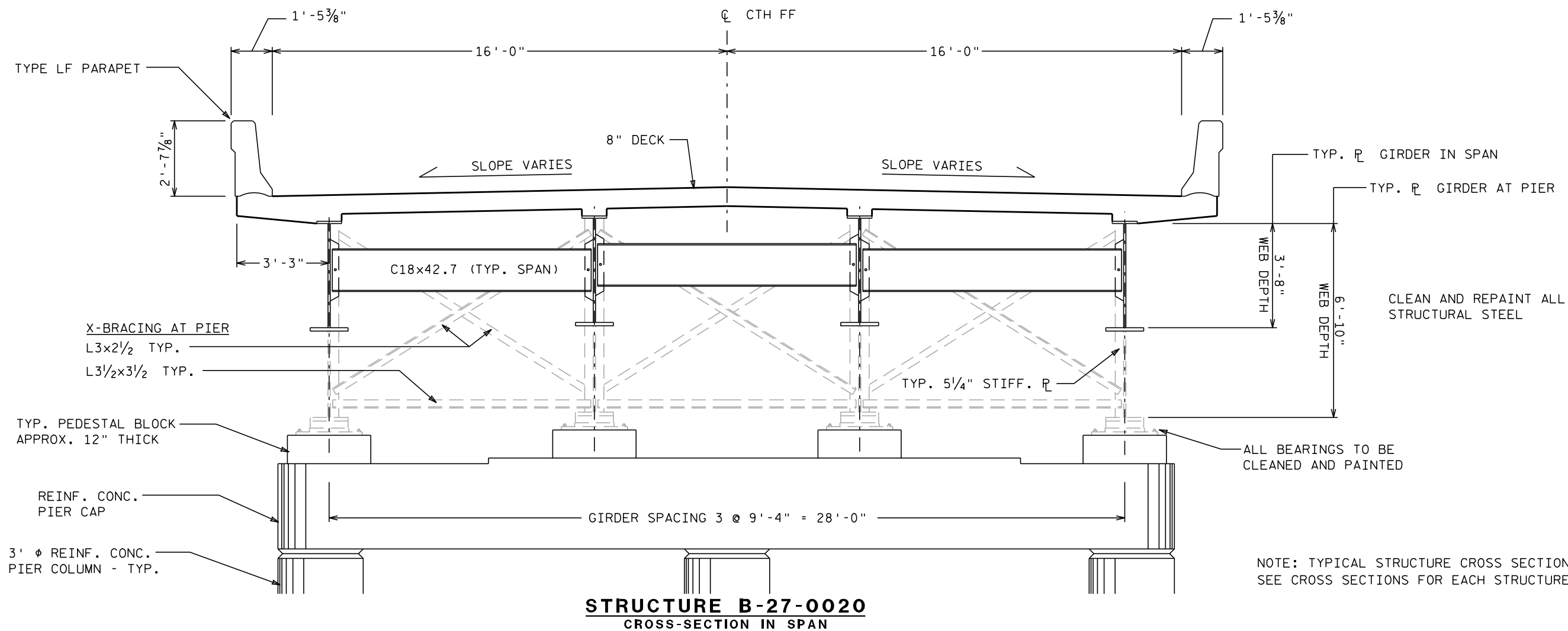
PLOT SCALE : 20:1

WISDOT/CADDS SHEET 42

2



2



PROJECT NO:1023-07-60

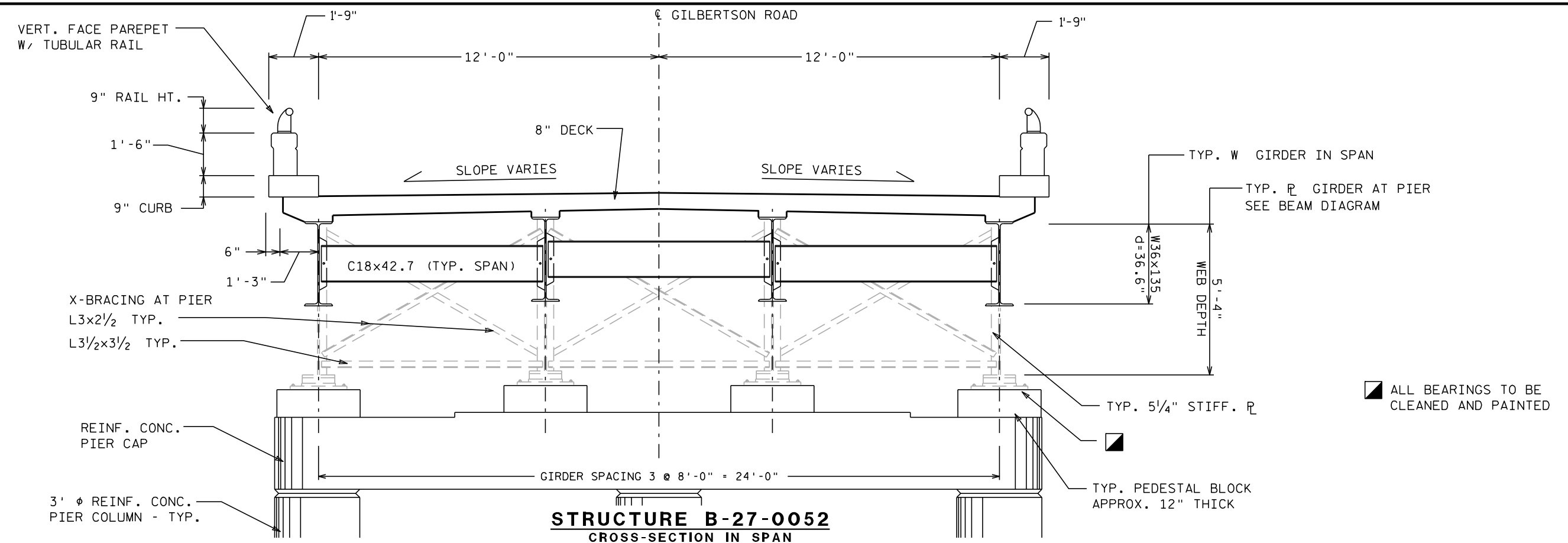
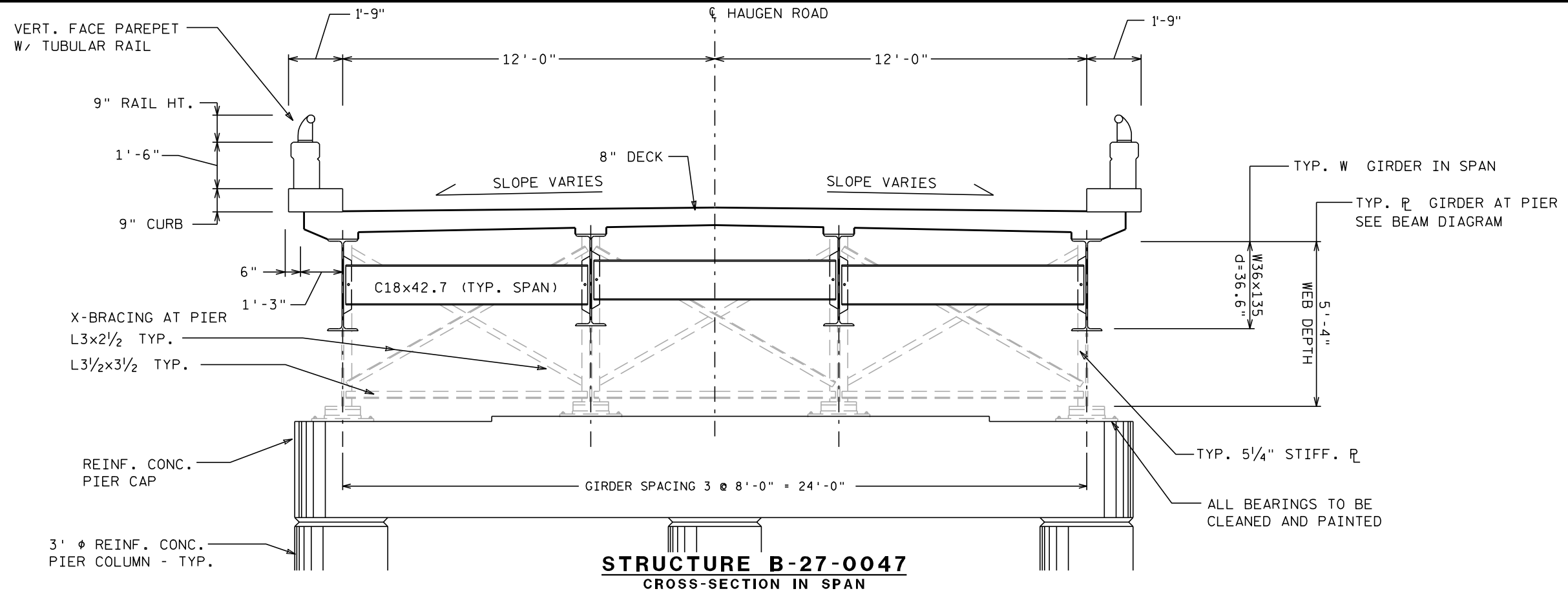
HWY: IH 94

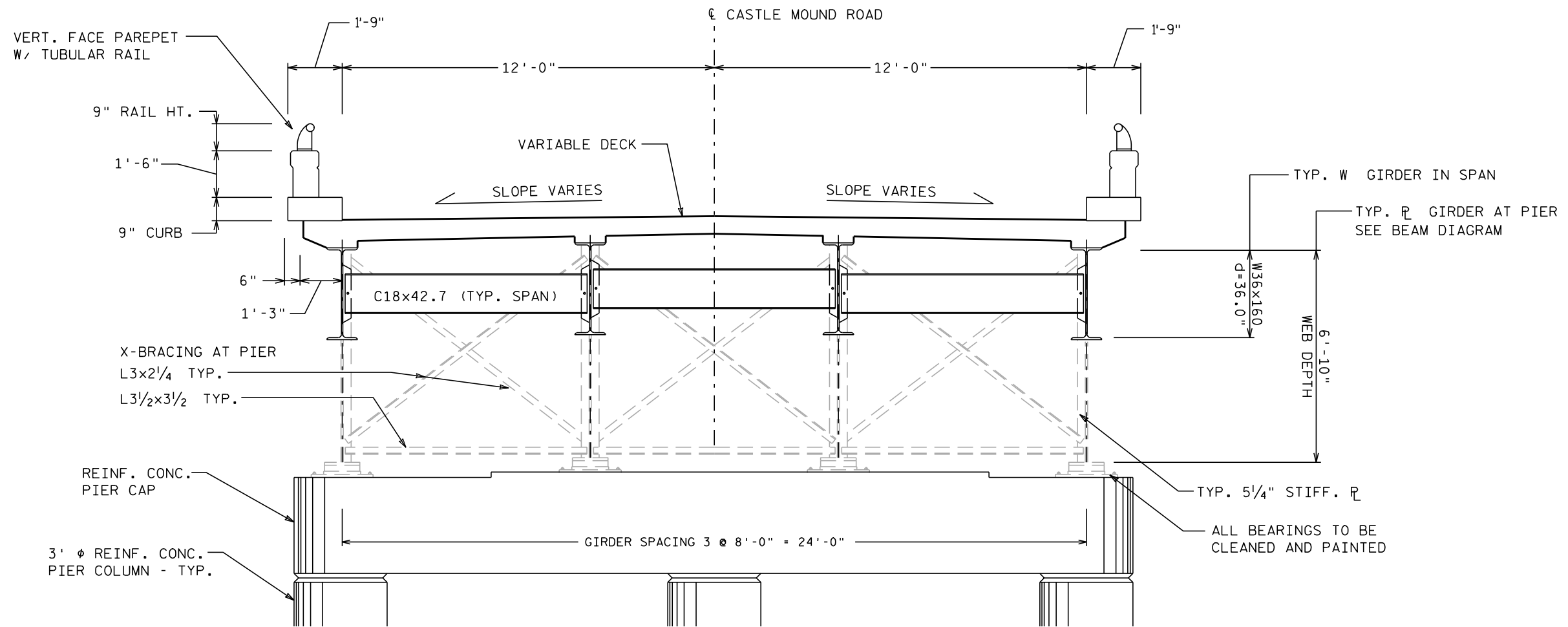
COUNTY: JACKSON

STRUCTURE DETAILS - B27-20 (CTH FF)

SHEET

E





STRUCTURE B-27-0053
CROSS-SECTION IN SPAN

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.

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

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.

- ① CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FT IN FRONT OF DRUMS.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL - ADVANCED SIGNING

MIRROR FOR OPPOSITE DIRECTION LANES
ITEM 643.0100 INCLUSIVE UNLESS NOTED

FOR A LANE CLOSURE IN PLACE LESS THAN SEVEN (7) CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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.

IF LANE CLOSURE IS MORE THAN 1 MILE, PLACE A TYPE III BARRICADE APPROXIMATELY EVERY 1/4 MILE ACROSS THE CLOSED LANE TO HELP ENFORCE THE DRUM LINE.






EXAMPLE IS IH 94 EB. EQUIVALENT TRAFFIC CONTROL FOR IH 94 WB REQUIRED, AS NEEDED.

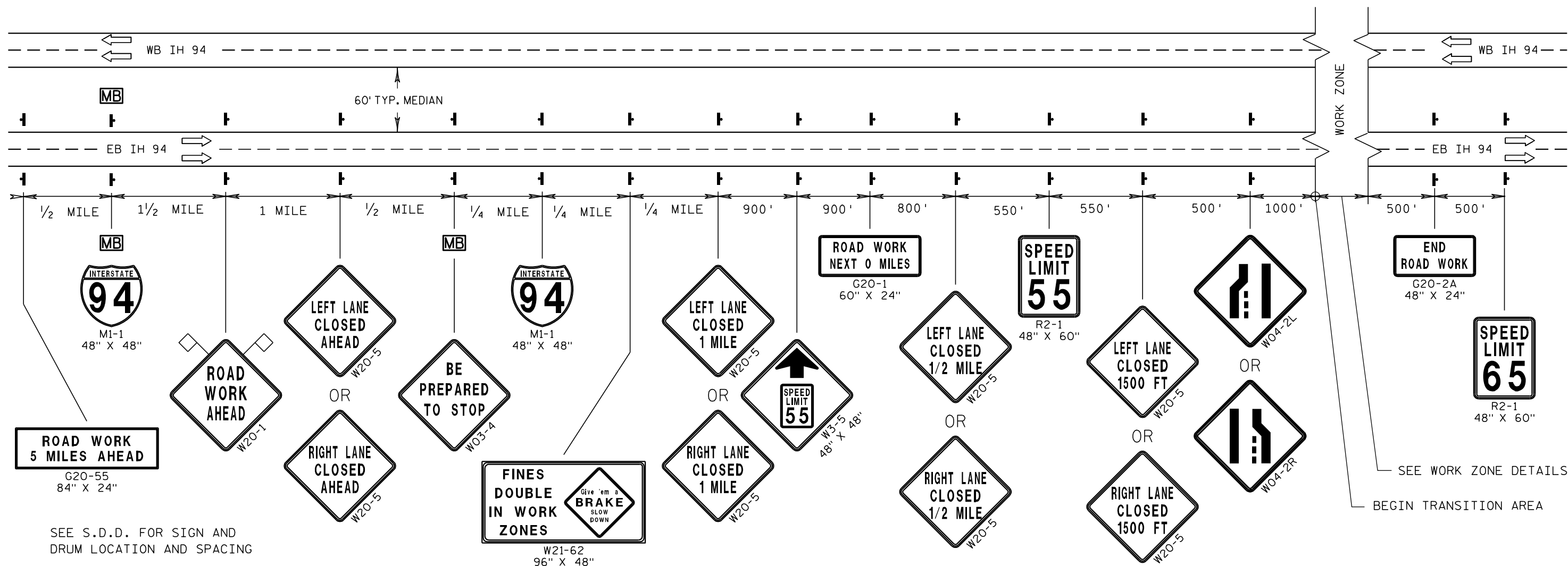
THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE, REVERSE FOR CLOSING LEFT LANE.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF EXIT OR ENTRANCE RAMP TO ALLOW FOR ADEQUATE BUFFER SPACE.

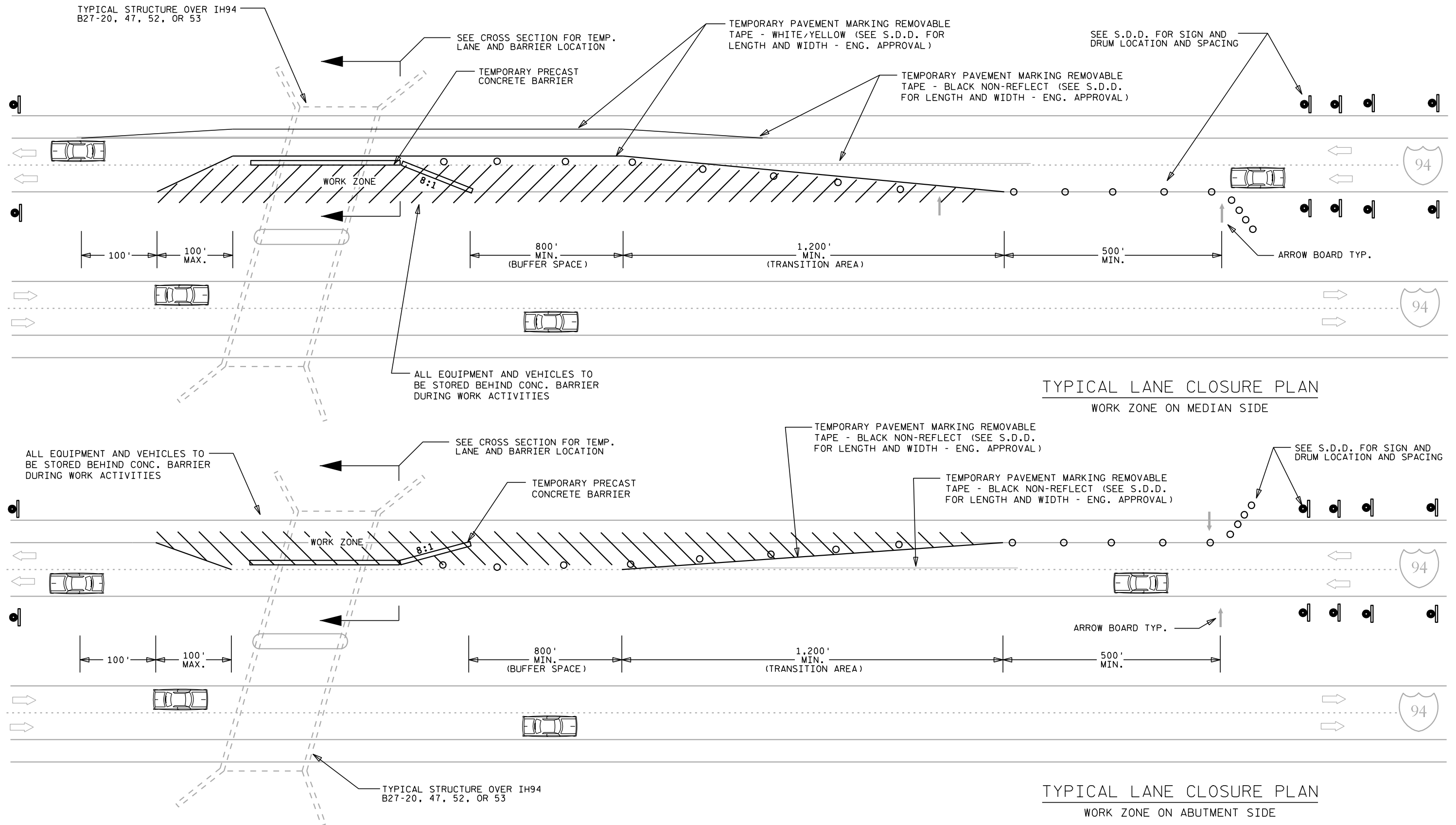
THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

LEGEND

-  POST WITH ATTACHED SIGN
-  DIRECTION OF TRAFFIC
-  ITEM 643.1050 PORTABLE CHANGEABLE MESSAGE
-  * REPEAT AT 1 MI INTERVALS WITHIN LANE CLOSURE
-  FLAG, 16" x 16", RED



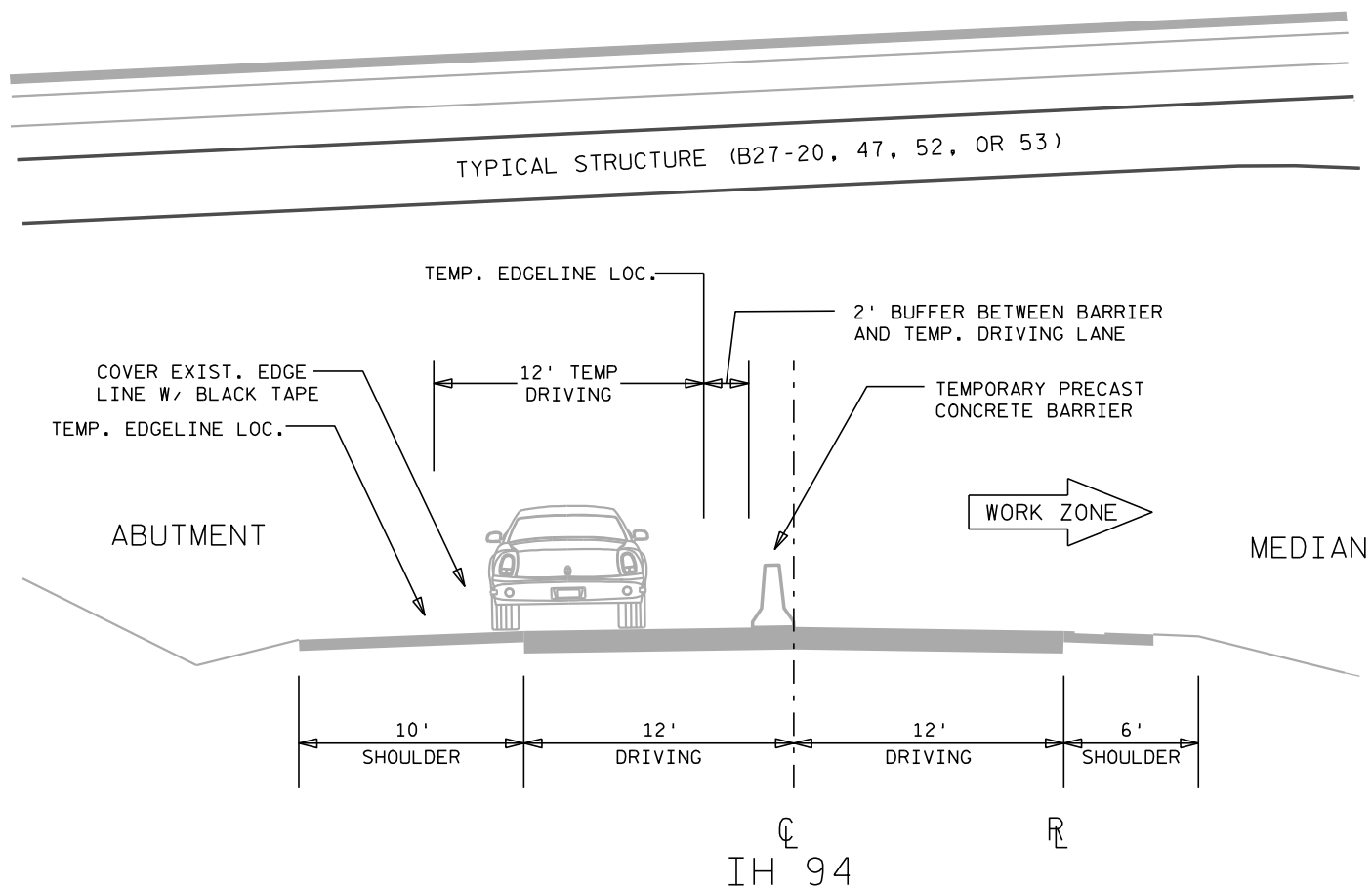
TRAFFIC CONTROL - WORK ZONE DETAILS

LANE CLOSURE - WORK ZONE PLAN
ITEM 643.0100 INCLUSIVE UNLESS NOTEDPLAN NOTES: WORK ZONE PLANS SHOWN FOR LANE CLOSURES
OF ONE TRAFFIC DIRECTION ONLY. REVERSE AND FLIP DETAILS
FOR OPPOSITE DIRECTIONS OF TRAVEL.

TRAFFIC CONTROL - WORK ZONE DETAILS

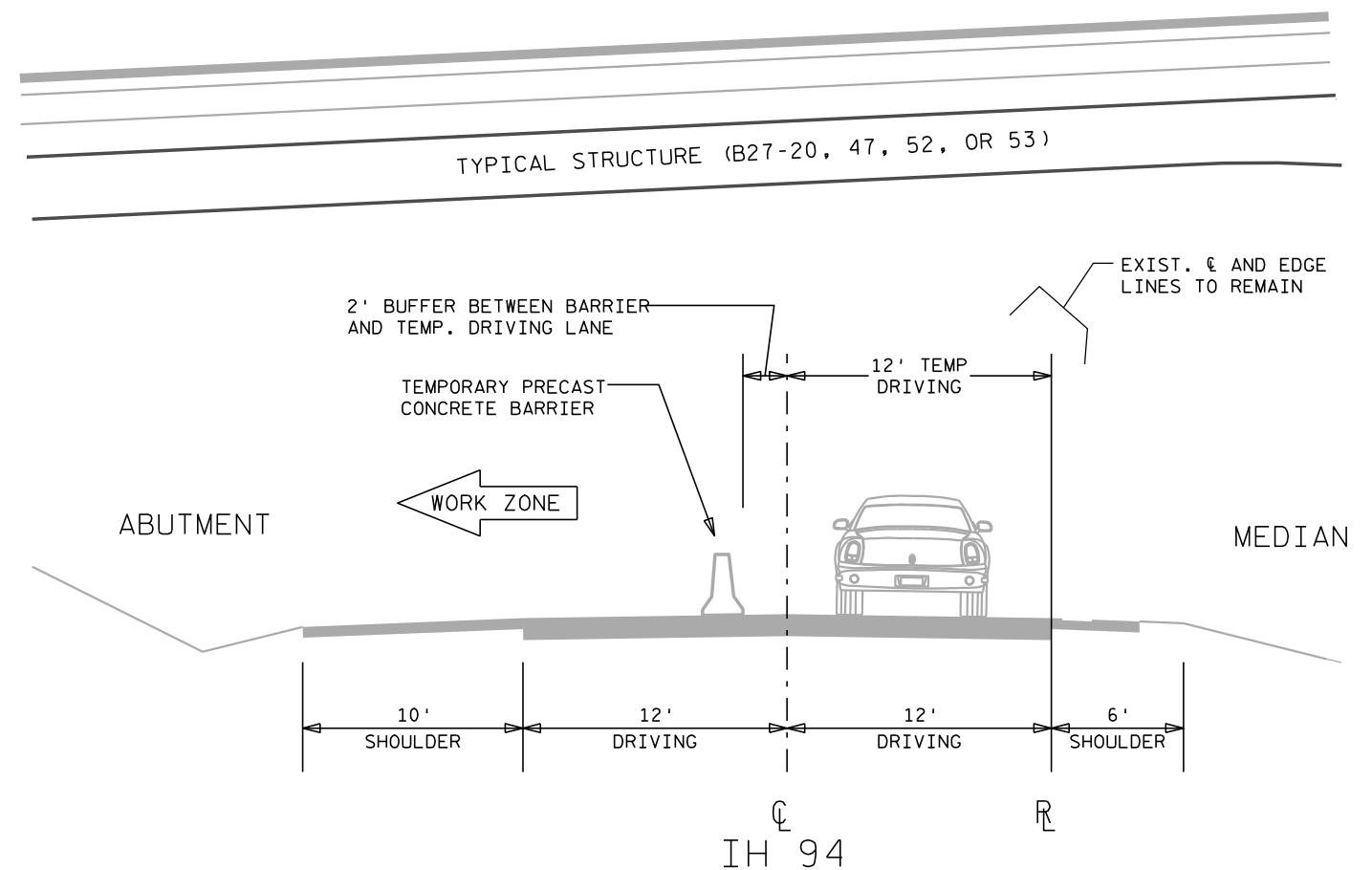
LANE CLOSURE - BARRIER LOCATION DETAIL
ITEM 643.0100 INCLUSIVE UNLESS NOTED

DETAIL NOTES: CROSS SECTIONS SHOWN FOR LANE CLOSURES OF ONE TRAFFIC DIRECTION ONLY. REVERSE AND FLIP DETAILS FOR OPPOSITE DIRECTIONS OF TRAVEL.



CROSS SECTION AT BARRIER LOCATION

WORK ZONE ON MEDIAN SIDE



CROSS SECTION AT BARRIER LOCATION

WORK ZONE ON ABUTMENT SIDE

WEEKEND CLOSURE AND REMOVAL NOTES:

- 1) ONE LANE IN EITHER DIRECTION MAY BE CLOSED BEGINNING AT 6:00 AM MONDAY TO 9:00 AM FRIDAY.
- 2) BOTH LANES OF TRAFFIC IN BOTH DIRECTIONS SHALL BE OPENED TO TRAFFIC FOR EVERY WKND PERIOD FROM 9:00 AM ON FRIDAY UNTIL 6:00 AM THE FOLLOWING MONDAY FOR THE DURATION OF THE PROJECT.
- 3) ALL WORK RELATED EQUIPMENT AND TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY AND SHOULDERS DURING EVERY WEEKEND PERIOD. ALL WORK RELATED EQUIPMENT ITEMS INCLUDING, BUT NOT LIMITED TO, VEHICLES, EQUIPMENT, AND WASTE BARRELS SHALL BE REMOVED FROM THE ROADWAY AND SHOULDERS FOR EVERY WEEKEND PERIOD. ALL WORK RELATED TRAFFIC CONTROL ITEMS, INCLUDING BUT NOT LIMITED TO, PRE-CAST BARRIERS, SIGNS, BARRELS, AND TEMPORARY PAVEMENT MARKING SHALL BE REMOVED FROM THE ROADWAY AND SHOULDERS FOR EVERY WEEKEND PERIOD.
- 4) STORAGE OF WORK RELATED AND TRAFFIC CONTROL ITEMS DURING THIS WEEKEND PERIOD MAY BE WITHIN THE ROADWAY R.O.W. A MINIMUM OF 40 FT FROM THE EDGE OF ROADWAY - ENGINEER APPROVAL REQ.
- 5) A WEEKEND STORAGE AREA MUST BE WITHIN THE GENERAL VICINITY OF THE PROJECT SITE AND MUST BE APPROVED BY THE PROJECT ENGINEER.

ALTERNATE ROUTE DETAILS
WORK ZONES FOR STRUCTURES B-27-0020, B-27-0047, B-27-0052

IH 94 ALTERNATE ROUTE SIGN LOCATIONS (EMERGENCY)

Legend for Alternate Route Sign Locations (A-F):

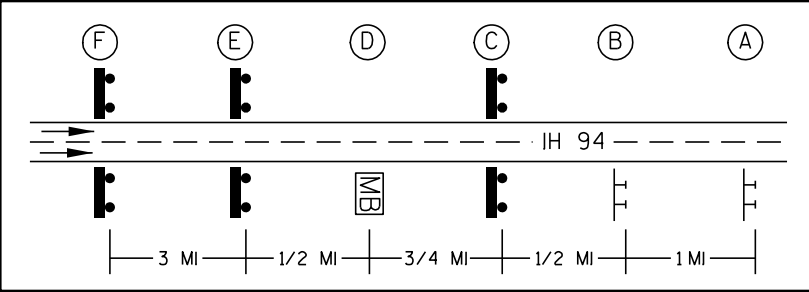
- A: Exit 88 (Osseo/Fairchild) OR Exit 105 (Alma Center/Hixton)
- B: Exit 88 (Osseo/Fairchild 1 mile) OR Exit 105 (Alma Center/Hixton 1 mile)
- C: Alternate Route Exit XX
- D: Variable Message Board (VMS)
- E: Left Lane Closed Ahead OR Right Lane Closed Ahead
- F: Road Work X Miles Ahead

Map Labels:

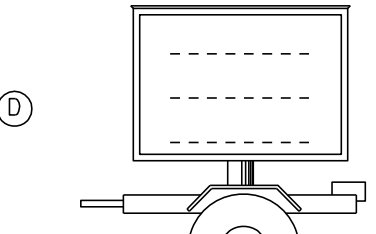
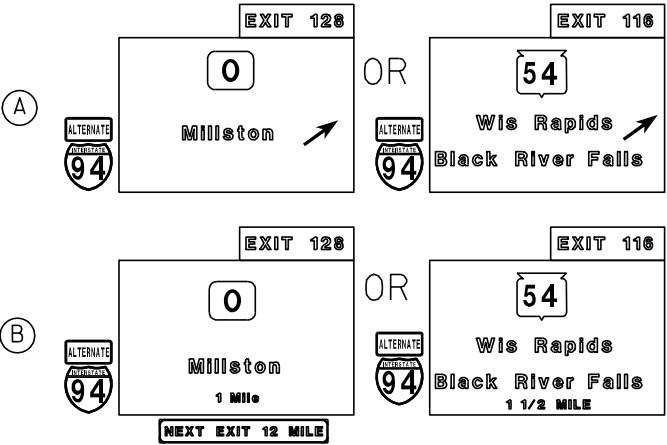
- Counties: EAU CLAIRE CO., JACKSON CO., TREMPEALEAU CO., CLARK CO.
- Cities/Towns: Pigeon Falls, Osseo, Fairchild, Price, Lewis, Northfield, York, Merrillan, Alma Center, Hixton.
- Roads: US 53, US 94, US 12, US 27, US 95, US 10, State Trunkway 121, Gilbertson Rd, Haugen Rd.
- Work Zones: B-27-0020, B-27-0047, B-27-0052.
- Exit Signs: EXIT 88 (EB ALT. ROUTE EXIT), EXIT 105 (WB ALT. ROUTE EXIT).

ALTERNATE ROUTE DETAILS
WORK ZONE FOR STRUCTURES B-27-0053

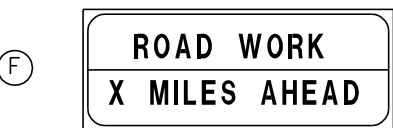
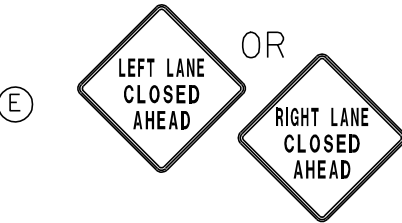
IH 94 ALTERNATE ROUTE SIGN LOCATIONS (EMERGENCY)



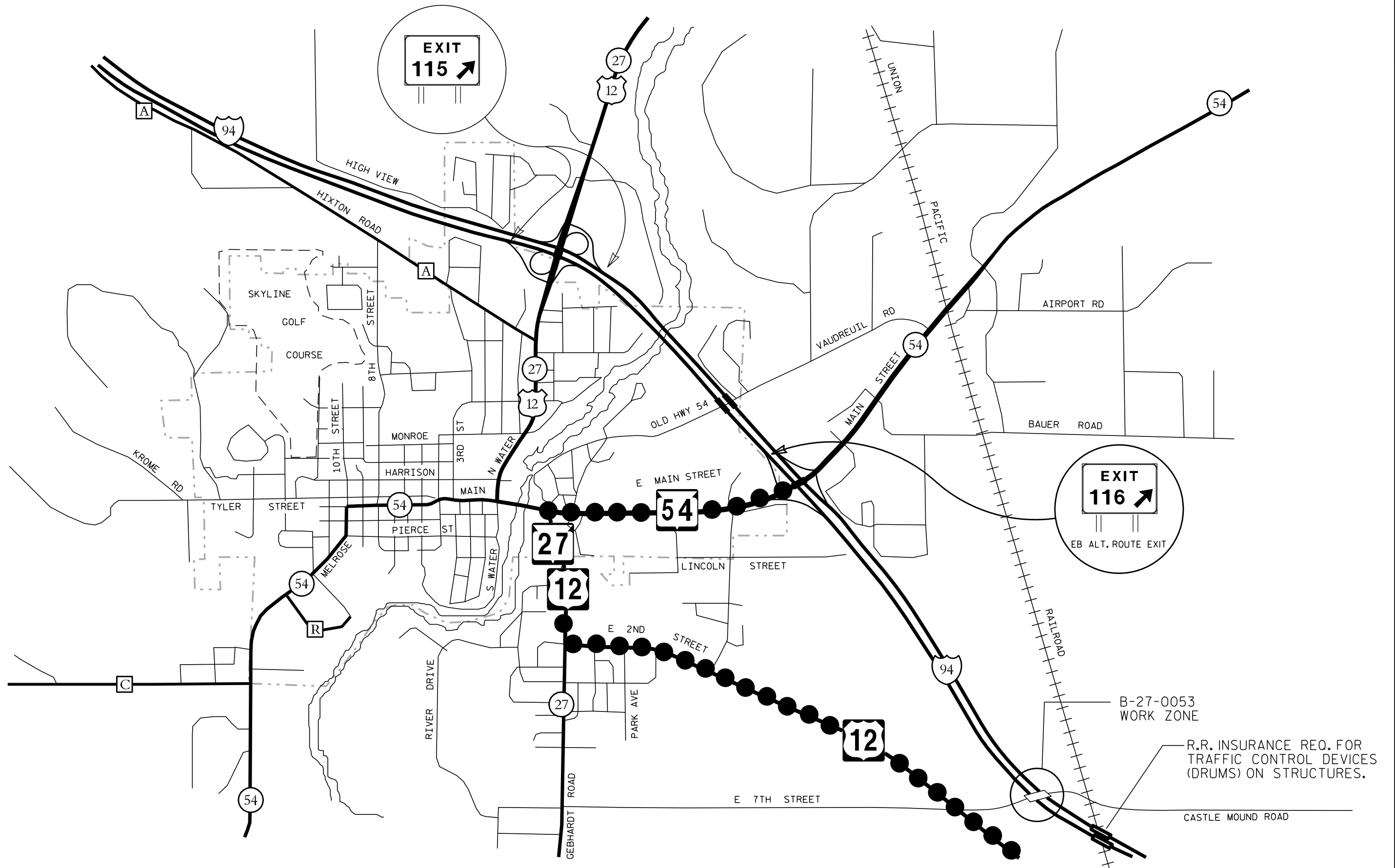
*SHADED SIGNS ARE EXISTING OR PROJECT ADVANCED WARNING



* MB TO BE PROGRAMMED BY WISTATE PATROL AS NEEDED



ALTERNATE ROUTE DETAILS
WORK ZONE FOR STRUCTURE B-27-0053 - BLACK RIVER FALLS



DATE 16JAN13		E S T I M A T E O F Q U A N T I T I E S			
LINE					1023-07-60
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	213.0100	FINISHING ROADWAY (PROJECT) 01. 1023-07-60	EACH	1.000	1.000
0020	517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE (STRUCTURE) 02. B-27-0020	LS	1.000	1.000
0030	517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE (STRUCTURE) 03. B-27-0047	LS	1.000	1.000
0040	517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE (STRUCTURE) 04. B-27-0052	LS	1.000	1.000
0050	517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE (STRUCTURE) 05. B-27-0053	LS	1.000	1.000
0060	517.4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS (STRUCTURE) 02. B-27-0020	LS	1.000	1.000
0070	517.4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS (STRUCTURE) 03. B-27-0047	LS	1.000	1.000
0080	517.4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS (STRUCTURE) 04. B-27-0052	LS	1.000	1.000
0090	517.4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS (STRUCTURE) 05. B-27-0053	LS	1.000	1.000
0100	517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	1.000	1.000
0110	603.8000	CONCRETE BARRIER TEMPORARY PRECAST DELIVERED	LF	2,400.000	2,400.000
0120	603.8125	CONCRETE BARRIER TEMPORARY PRECAST INSTALLED	LF	4,800.000	4,800.000
0130	619.1000	MOBILIZATION	EACH	1.000	1.000
0140	642.5001	FIELD OFFICE TYPE B	EACH	1.000	1.000
0150	643.0100	TRAFFIC CONTROL (PROJECT) 01. 1023-07-60	EACH	1.000	1.000
0160	643.0300	TRAFFIC CONTROL DRUMS	DAY	8,800.000	8,800.000
0170	643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	160.000	160.000
0180	643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	9,120.000	9,120.000
0190	643.0800	TRAFFIC CONTROL ARROW BOARDS	DAY	320.000	320.000
0200	643.0900	TRAFFIC CONTROL SIGNS	DAY	2,720.000	2,720.000
0210	643.0920	TRAFFIC CONTROL COVERING SIGNS TYPE II	EACH	16.000	16.000
0220	643.1050	TRAFFIC CONTROL SIGNS PCMS	DAY	84.000	84.000
0230	649.0400	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH	LF	67,200.000	67,200.000

3

3

MISCELLANEOUS QUANTITIES
ALL CATAGORIES 0010 UNLESS SPECIFIED OTHERWISE
PAGE 1 OF 2

SURFACE AREA ESTIMATE

CATEGORY	STRUCTURE ID	STRUCTURAL STEEL (SF)	REMARKS
0020	B-27-0020	13,100	CTH FF OVER IH 94
0030	B-27-0047	10,100	HAGUGEN ROAD OVER IH 94
0040	B-27-0052	9,200	GILBERTSON ROAD OVER IH 94
0050	B-27-0053	11,800	CASTLE MOUND ROAD OVER IH 94

(FOR INFORMATION PURPOSES ONLY)

QUANTITY SUMMARY

ITEM NO.	DESCRIPTION	EST. QUANT	ITEM UNIT
603.8000	CONCRETE BARRIER TEMPORARY PRECAST DELIVERED	2,400	LF
603.8125	CONCRETE BARRIER TEMPORARY PRECAST INSTALLED	4,800	LF
643.0300	TRAFFIC CONTROL DRUMS	8,800	DAYS
643.0420	TRAFFIC CONTROL BARRICADES TYPE III	160	DAYS
643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	9,120	DAYS
643.0800	TRAFFIC CONTROL ARROW BOARDS	320	DAYS
643.0900	TRAFFIC CONTROL SIGNS	2,720	DAYS
643.0920	TRAFFIC CONTROL COVERING SIGNS TYPE II	16	EA
643.1050	TRAFFIC CONTROL SIGNS PORTABLE CHANGEABLE MESSAGE (SEE DETAIL - MB)	84	DAY
649.0400	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH	67,200	LF

NOTES:
SEE TRAFFIC CONTROL QUANTITY DETAILS

MISCELLANEOUS QUANTITIES
ALL CATAGORIES 0010 UNLESS SPECIFIED OTHERWISE
PAGE 2 OF 2

TRAFFIC CONTROL QUANTITY DETAILS

		SINGLE DIRECTION OF IH 94 (EB OR WB)①						
ITEM NO.	ITEM DESCRIPTION	ITEM UNITS	WORK ② ZONE	UNIT QUANT.	DAYS PER STRUCTURE	ITEM TOTAL	STRUCTURE ③ TOTAL	REMARKS
603.0500	CONC. BARRIER TEMP. PRECAST CONTRACTOR FURN. & DEL.	LF	BOTH	300	-	300	600	-
603.0801	CONC. BARRIER TEMP. PRECAST CONTRACTOR INSTALLED	LF	BOTH	300	-	600	1,200	-
643.0300	TRAFFIC CONTROL DRUMS	DAYS	BOTH	55	20	1,100	2,200	-
643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAYS	BOTH	1	20	20	40	USE IN BUFFER AREA OR ENG. DISCRETION
643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAYS	BOTH	57	20	1,140	2,280	DRUMS & BARRICADES
643.0800	TRAFFIC CONTROL ARROW BOARDS	DAYS	BOTH	2	20	40	80	-
643.0900	TRAFFIC CONTROL SIGNS	DAYS	BOTH	17	20	340	680	ITEM INCLUDES W5-52R ON CONC. BARRIER
643.0920	TRAFFIC CONTROL COVERING SIGNS TYPE II	EACH	BOTH	-	-	2	4	UNDISTRIBUTED
643.1050	TRAFFIC CONTROL SIGNS PORTABLE CHANGEABLE MESSAGE	DAY	BOTH	-	-	1	2	USE AT ENGINEERS DISCRETION
649.0400	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-IN	LF	MEDIAN	3,600	-	3,600	7,200	EDGELINES - WHITE OR YELLOW
649.0400	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-IN	LF	MEDIAN	2,400	-	2,400	4,800	NON-REFLECTORIZED (BLACK)
649.0400	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-IN	LF	ABUTMENT	1,200	-	1,200	2,400	EDGELINES - WHITE OR YELLOW
649.0400	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-IN	LF	ABUTMENT	1,200	-	1,200	2,400	NON-REFLECTORIZED (BLACK)

- NOTES:
1. QUANTITIES ARE FOR ONE SINGLE DIRECTION OF TRAVEL
2. "BOTH" INDICATES EACH WORK ZONE REQUIRES EQUAL AMOUNTS OF ITEMS. SEE TRAFFIC CONTROL DETAILS FOR REQUIRED.
3. TOTAL AMOUNTS EQUAL BOTH LANES OF TRAVEL

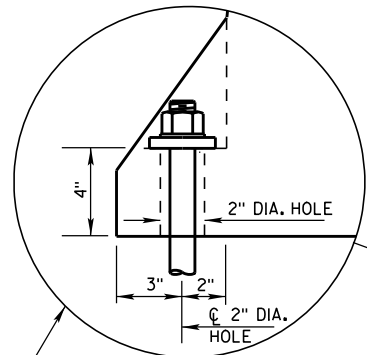
TRAFFIC CONTROL STATIONING - IH 94

TRAFFIC CONTROL STATIONING - IH 94			STRUCTURE B27-20 ℄ STA. 838+65		STRUCTURE B27-47 ℄ STA. 534+47		STRUCTURE B27-52 ℄ STA. 453+70		STRUCTURE B27-53 ℄ STA. 1642+40	
ITEM NO.	ITEM DESCRIPTION	ITEM UNITS	EB IH 94 BEGIN STA.	WB IH 94 BEGIN STA.	EB IH 94 BEGIN STA.	WB IH 94 BEGIN STA.	EB IH 94 BEGIN STA.	WB IH 94 BEGIN STA.	EB IH 94 BEGIN STA.	WB IH 94 BEGIN STA.
603.0500	CONC. BARRIER TEMP. PRECAST CONTRACTOR FURN. & DEL.	LF	835+65	841+65	531+47	537+47	450+70	456+70	1639+40	1645+40
603.0801	CONC. BARRIER TEMP. PRECAST CONTRACTOR INSTALLED	LF	835+65	841+65	531+47	537+47	450+70	456+70	1639+40	1645+40
643.0300	TRAFFIC CONTROL DRUMS	DAYS	810+65	866+65	506+47	562+47	425+70	481+70	1614+40	1670+40
643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAYS	-	-	-	-	-	-	-	-
643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAYS	810+65	866+65	506+47	562+47	425+70	481+70	1614+40	1670+40
643.0800	TRAFFIC CONTROL ARROW BOARDS	DAYS	810+65	866+65	506+47	562+47	425+70	481+70	1614+40	1670+40
643.0900	TRAFFIC CONTROL SIGNS	DAYS	733+05	944+25	428+87	640+07	348+10	559+30	1536+80	1748
643.1050	TRAFFIC CONTROL SIGNS PORTABLE CHANGEABLE MESSAGE	DAY	-	-	-	-	-	-	-	-
649.0400	TEMP. PAVEMENT MARKING REMOVABLE TAPE 4-IN (EDGE)	LF	815+65	861+65	511+47	557+47	430+70	476+70	1619+40	1665+40
649.0400	TEMP. PAVEMENT MARKING REMOVABLE TAPE 4-IN (BLACK)	LF	815+65	861+65	511+47	557+47	430+70	476+70	1619+40	1665+40

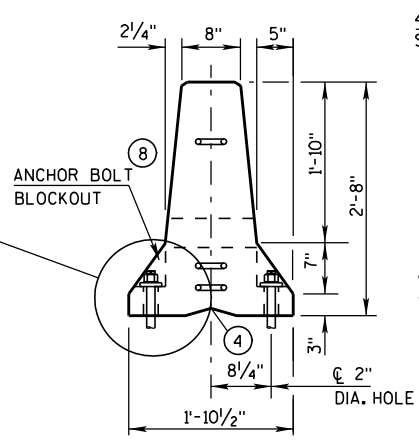
NOTE: STATIONING FOR TRAFFIC CONTROL ITEMS ARE APPROXIMATE.

Standard Detail Drawing List

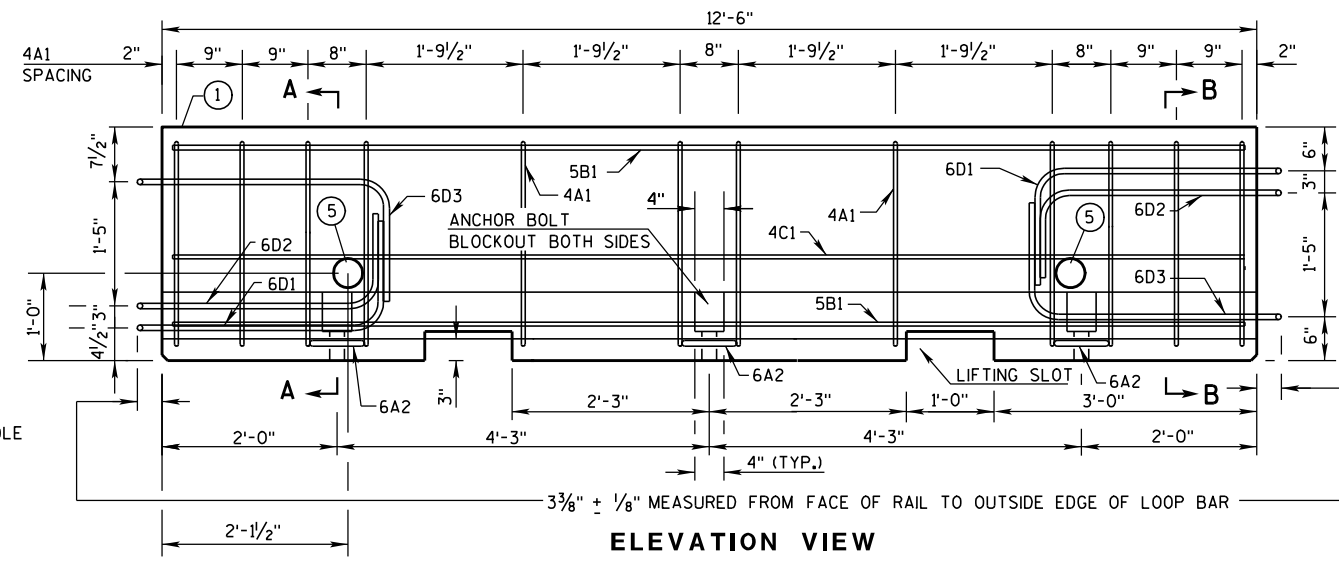
14B07-13A	CONCRETE BARRIER TEMPORARY PRECAST, 12' -6"
14B07-13B	CONCRETE BARRIER TEMPORARY PRECAST, 12' -6"
14B07-13C	CONCRETE BARRIER TEMPORARY PRECAST, 12' -6"
14B07-13D	CONCRETE BARRIER TEMPORARY PRECAST, 12' -6"
14B07-13E	CONCRETE BARRIER TEMPORARY PRECAST, 12' -6"
14B07-13F	CONCRETE BARRIER TEMPORARY PRECAST, 12' -6"
14B07-13G	CONCRETE BARRIER TEMPORARY PRECAST, 12' -6"
14B07-13H	CONCRETE BARRIER TEMPORARY PRECAST, 12' -6"
15D03-01	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER
15D15-01	TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE



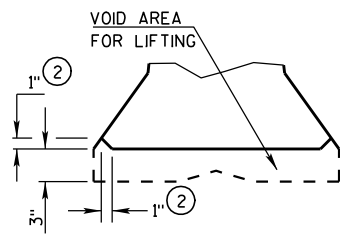
ANCHOR ON TRAFFIC SIDE ONLY WHEN REQUIRED (SEE SHEET D FOR ADDITIONAL ANCHOR DETAIL)



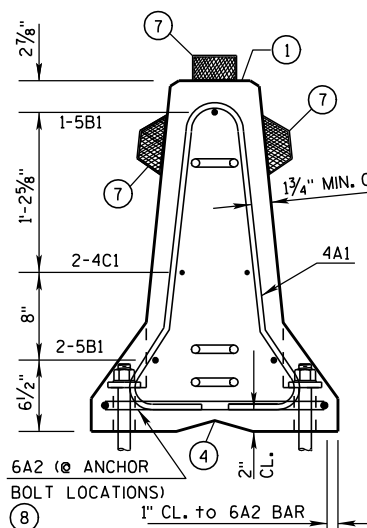
END VIEW



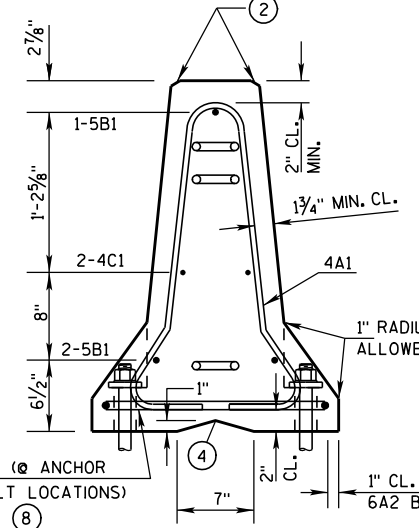
ELEVATION VIEW



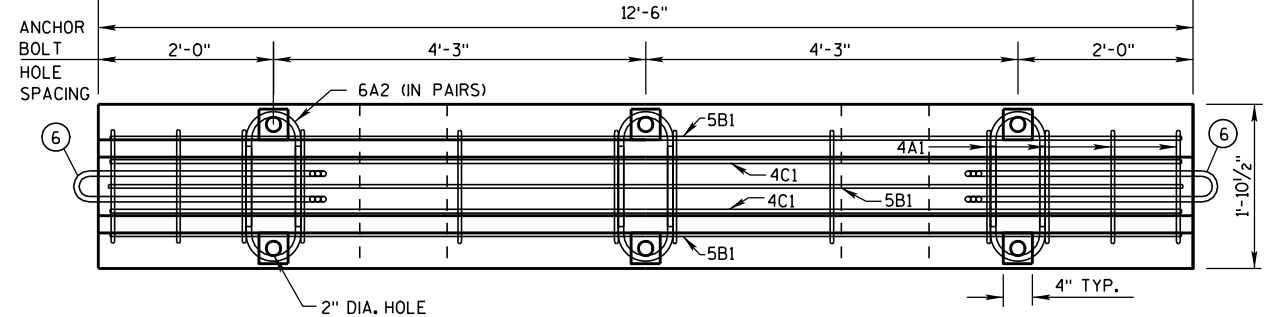
DETAIL "B" LIFTING SLOT DETAIL



SECTION A-A (STIRRUP PLACEMENT)

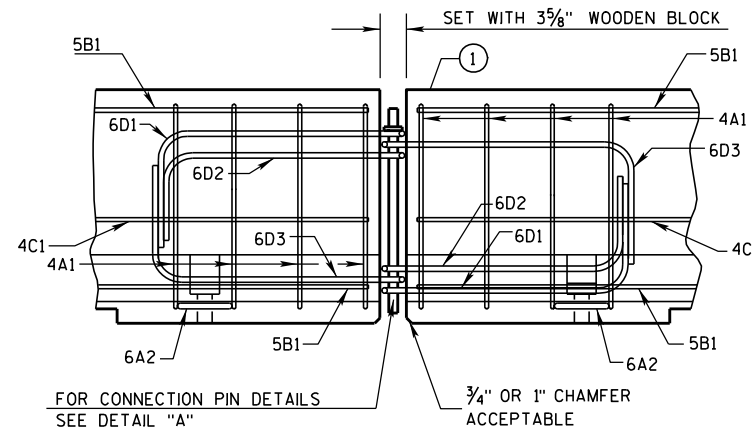


SECTION B-B (STIRRUP PLACEMENT)

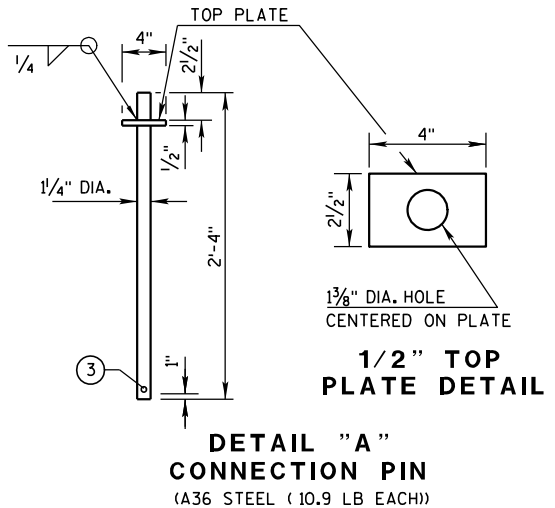


PLAN VIEW

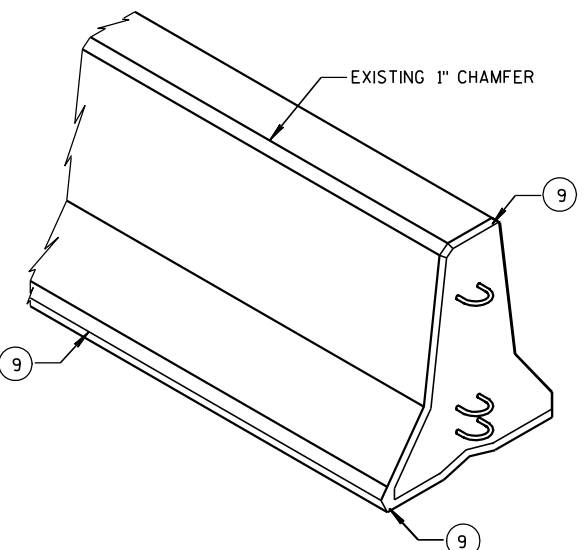
DETAILS OF BARRIER SECTION



DETAILS OF BARRIER CONNECTION



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

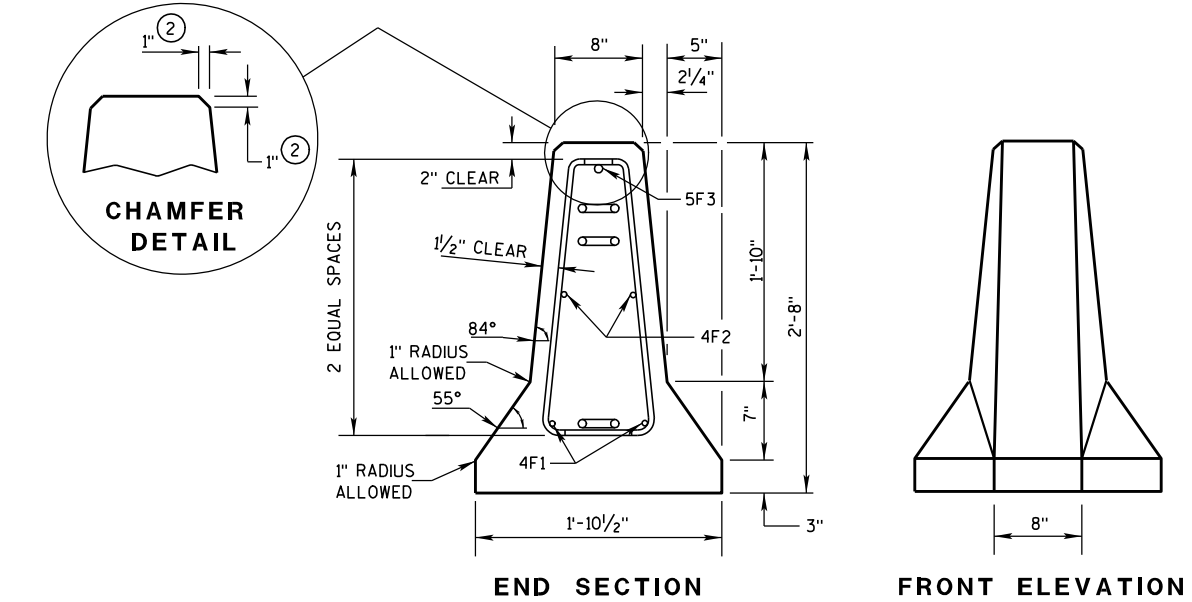
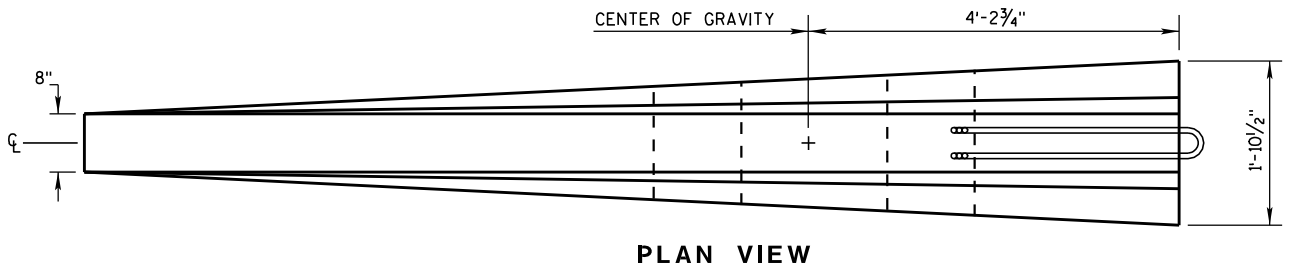
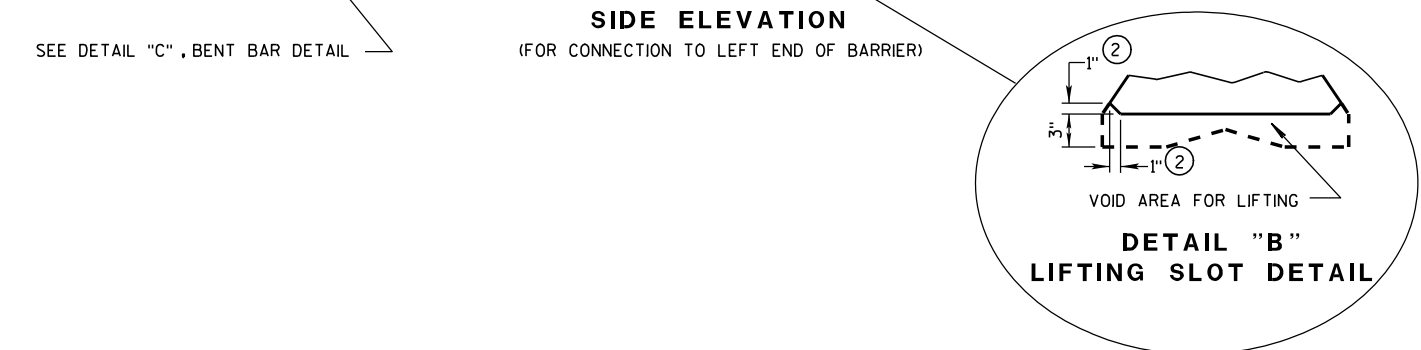
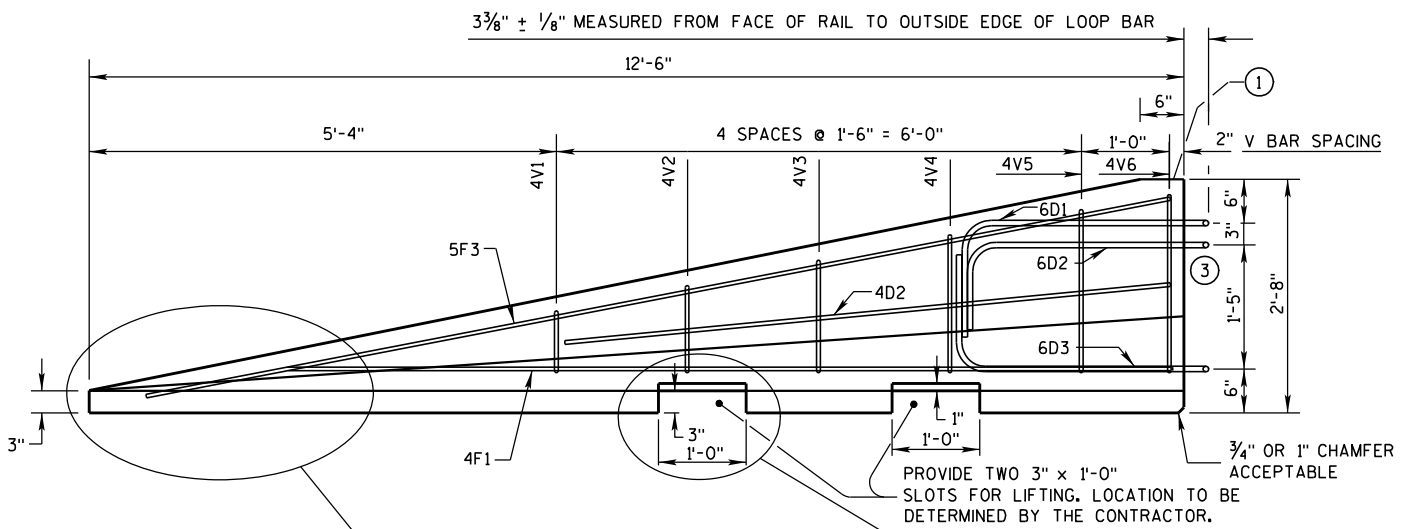


GENERAL NOTES

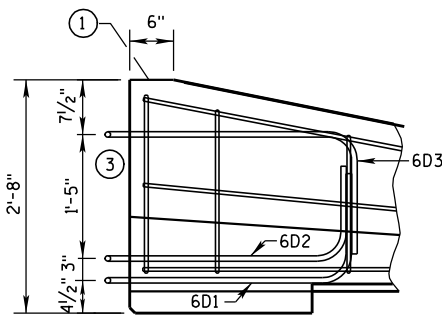
- THESE GENERAL NOTES APPLY TO SHEETS 14B7-13(g) THRU 14B7-13(h).
- DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" (CBTP12.5) WITH OTHER TEMPORARY CONCRETE BARRIERS.
- USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER TAPER SECTION.
- LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE 3/4" 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 3-1/2" PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN 1/8" 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 EPOXY ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.
- MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
 - TYPE: WICBTP
 - MANUFACTURER
 - DATE MANUFACTURED (MONTH AND YEAR)
 - 1" CHAMFER TO PREVENT SPALLING.
 - A 3/8" HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT NOT REQUIRED..
 - "V" NOTCH IS OPTIONAL.
 - THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).
 - NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.
 - 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.
 - SEE SHEET D FOR ANCHORING CRITERIA.
 - 1" CHAMFER OPTIONAL.

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



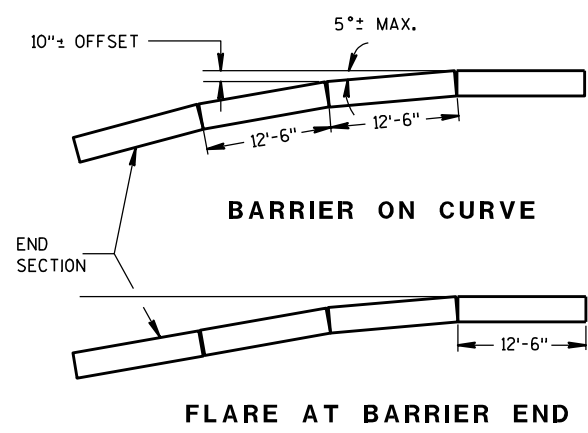
DETAILS OF BARRIER TAPER SECTION



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 W/CBTP
 - b. MANUFACTURER
 - c. DATE MANUFACTURED (MONTH AND YEAR)
- ② 1" CHAMFER TO PREVENT SPALLING.
- ③ NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.



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

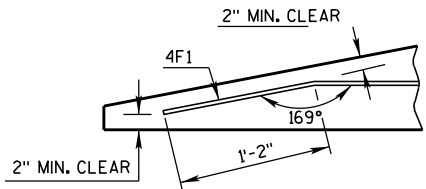
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

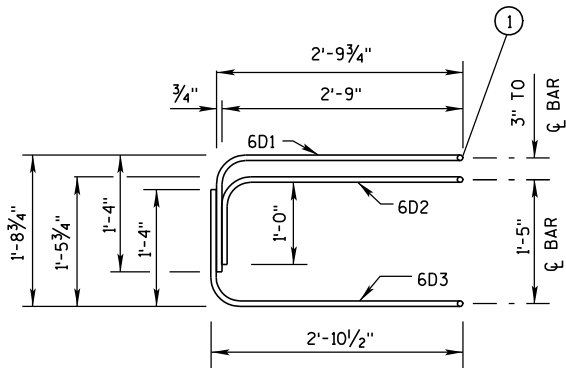
BARRIER TAPER SECTION
BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

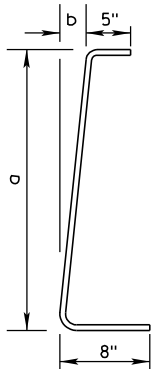
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



DETAIL "C"
BENT BAR DETAIL



ELEVATION
LOOP BAR ASSEMBLY



4V BARS

2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

BAR	a	b
V1	10"	1"
V2	1'-1"	1 1/4"
V3	1'-5"	1 5/8"
V4	1'-8"	1 7/8"
V5	2'-0 1/2"	2 3/8"
V6	2'-3"	2 3/4"

TAPER BARRIER SECTION

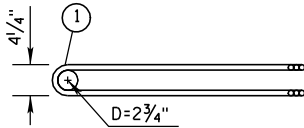
GENERAL NOTES

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

BARRIER SECTION
BILL OF MATERIALS

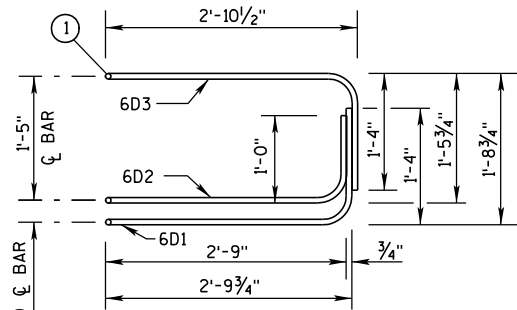
(PER 12'-6" BARRIER SECTION)

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"

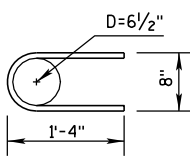


PLAN VIEW
LOOP BAR ASSEMBLY

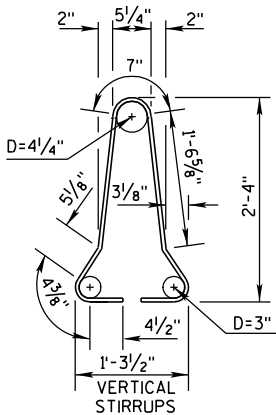
(MARKED END SHOWN, INVERT FOR OTHER END)



ELEVATION VIEW



6A2

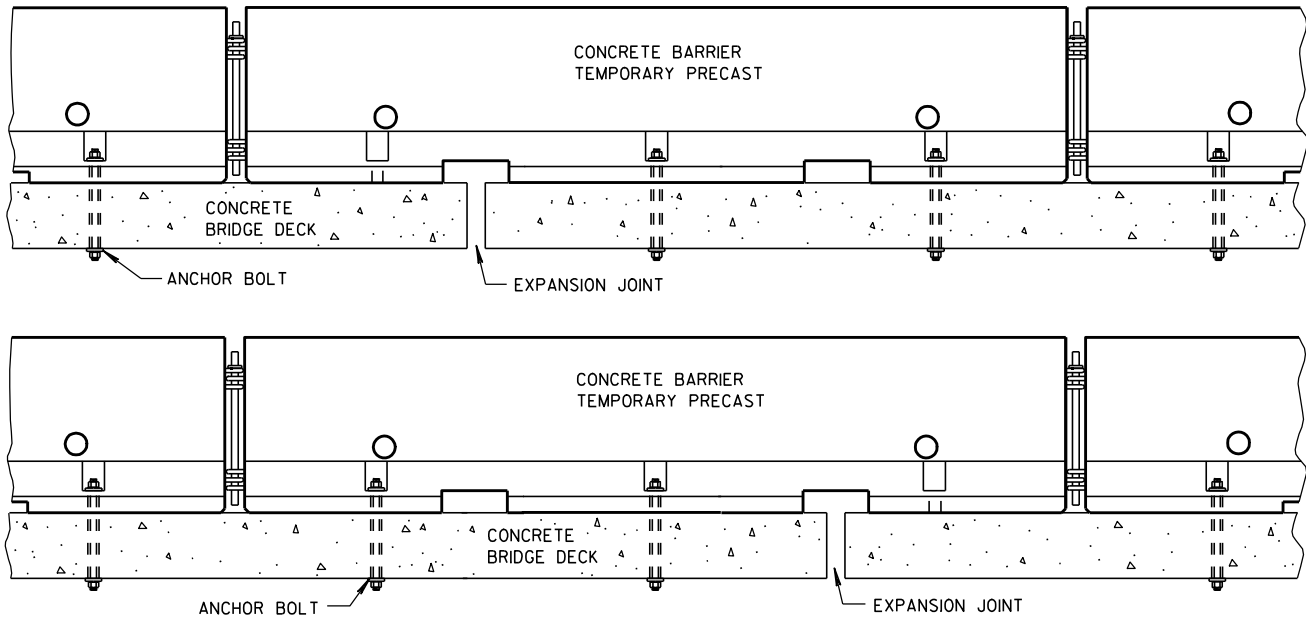


4A1

BARRIER SECTION

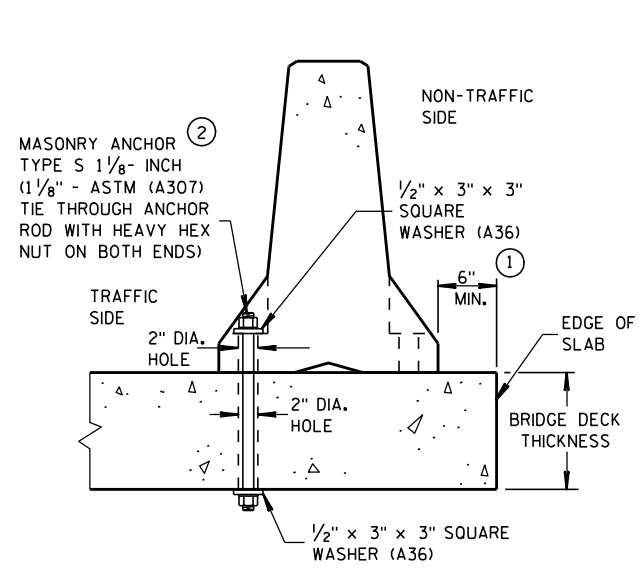
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



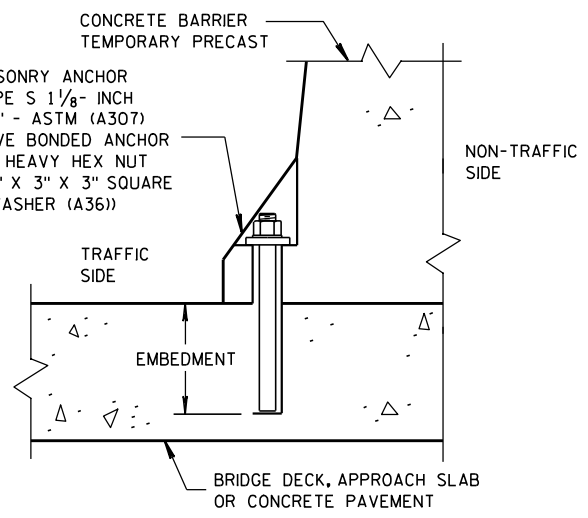
TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(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.)



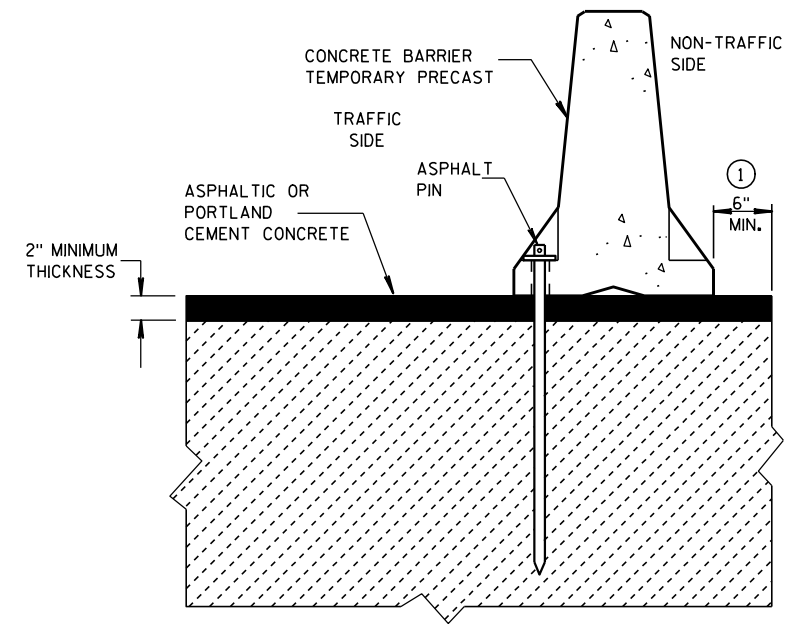
THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOT USE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)



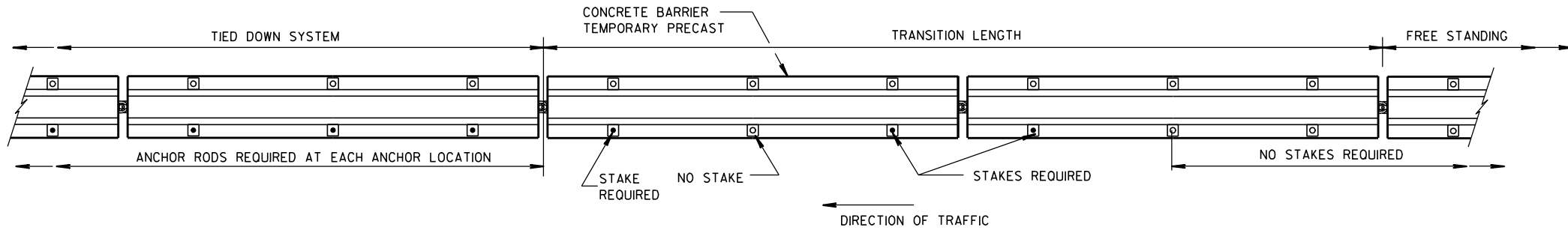
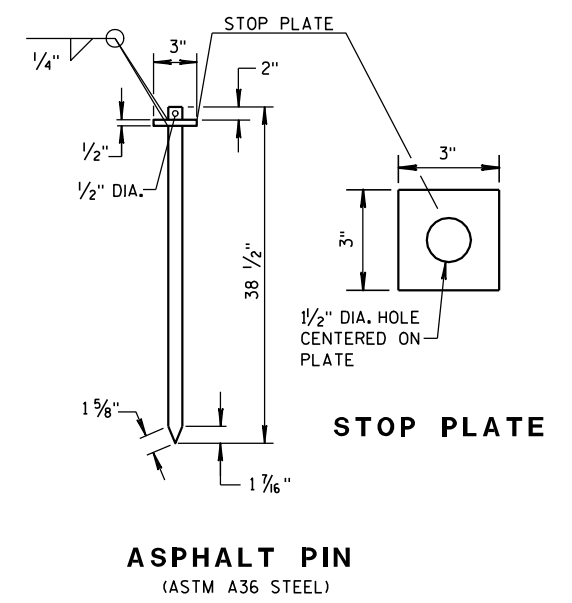
REMOVABLE ADHESIVE BONDED ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)



STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



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.)

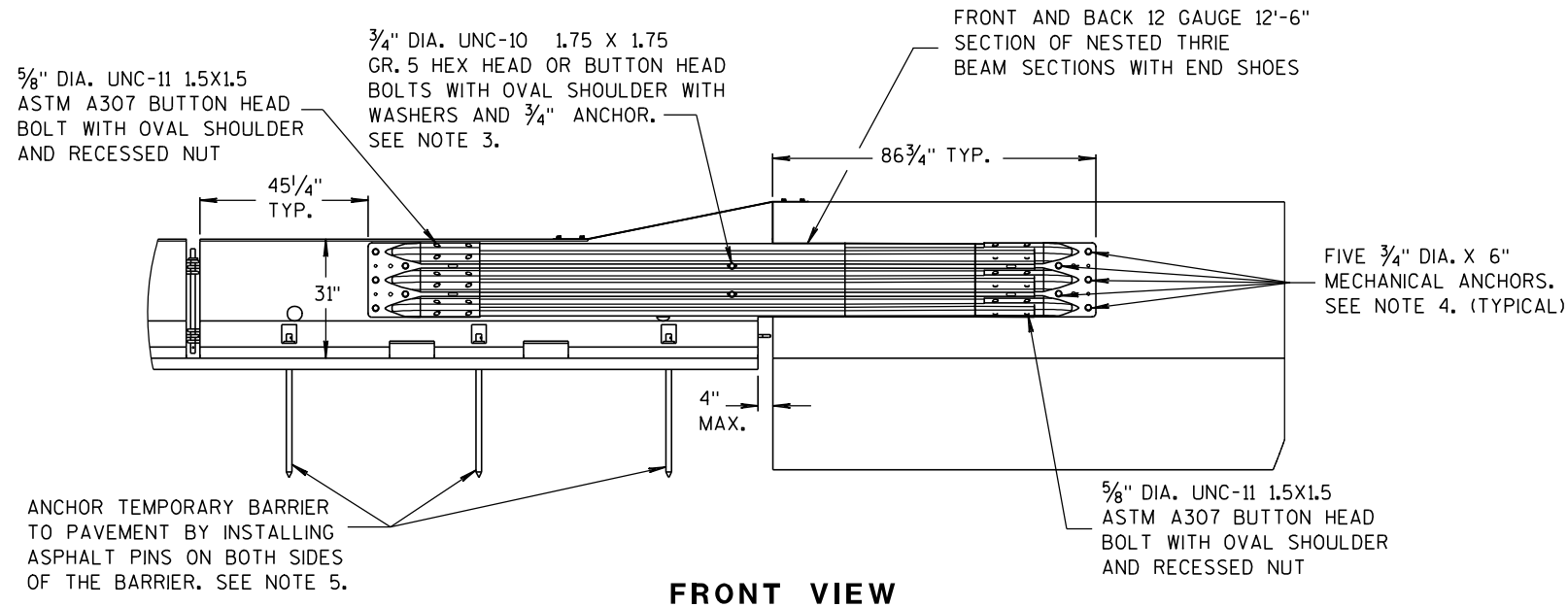
GENERAL NOTES

- 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.

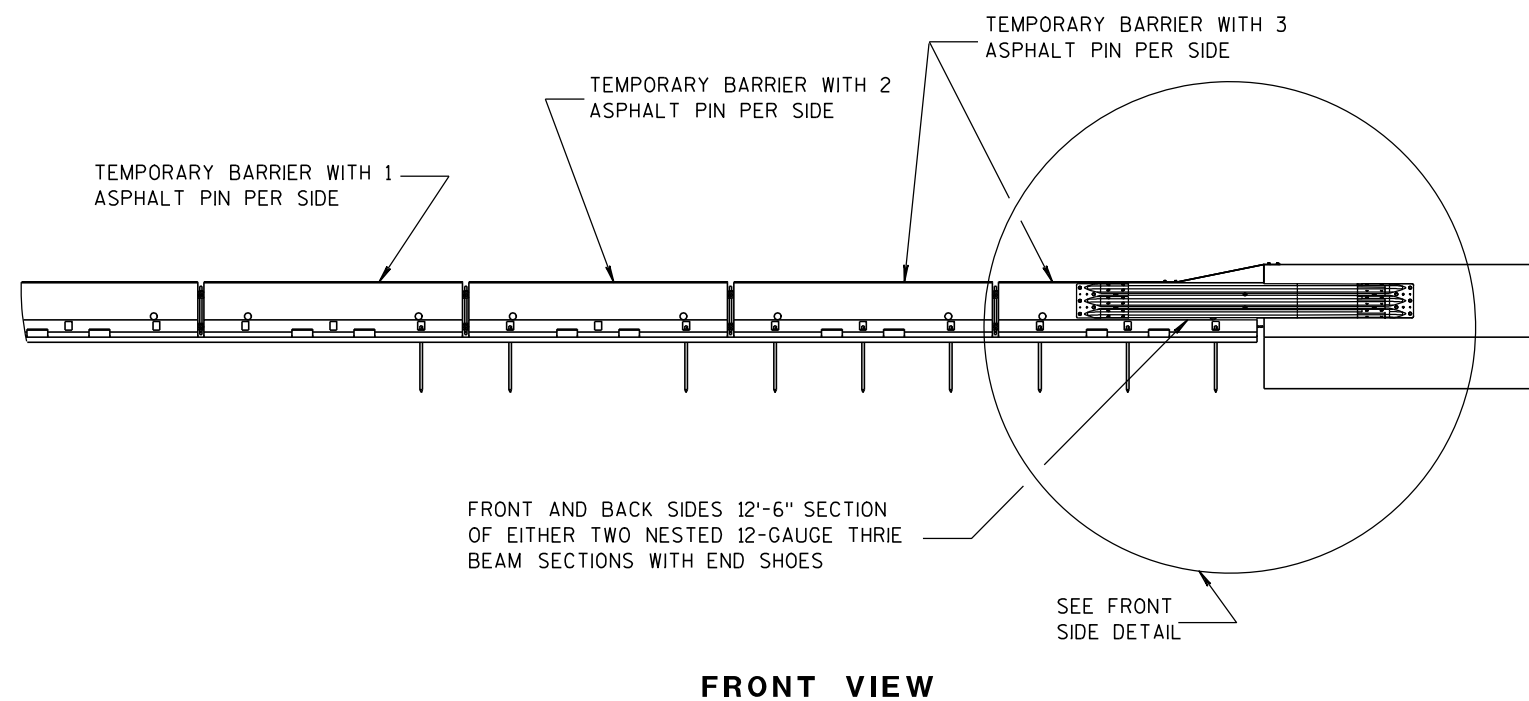
WITH THE APPROVAL OF THE ENGINEER, REMOVABLE ADHESIVE BONDED (EPOXY) ANCHOR BOLT INSTALLATION MAY BE USED IN LIEU OF THROUGH BOLTED ANCHOR INSTALLATION. THE ADHESIVE BONDED ANCHOR BOLT MUST BE REMOVABLE. USE ASTM (A307) MASONRY ANCHORS TYPE S 1 1/8-INCH, EMBEDDED TO A DEPTH SUFFICIENT TO DEVELOP THE 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 COMMERCIAL GROUT OR EPOXY MATERIAL IDENTIFIED ON THE CURRENT WISDOT APPROVED PRODUCTS LIST.

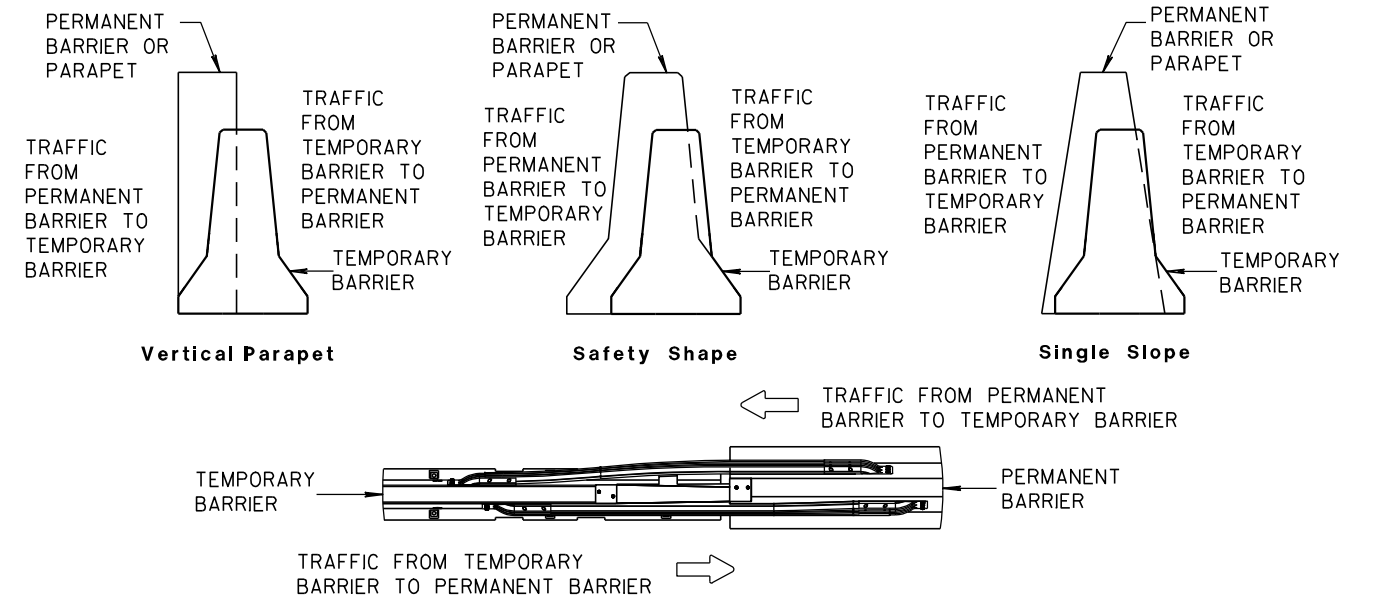


NOTES

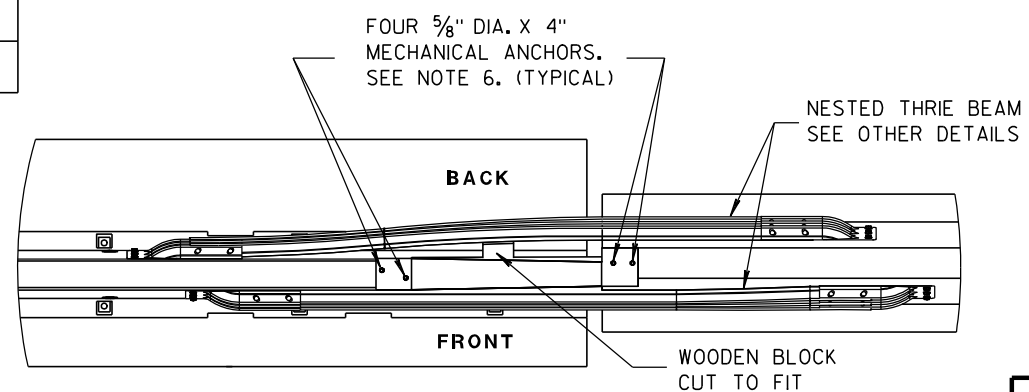
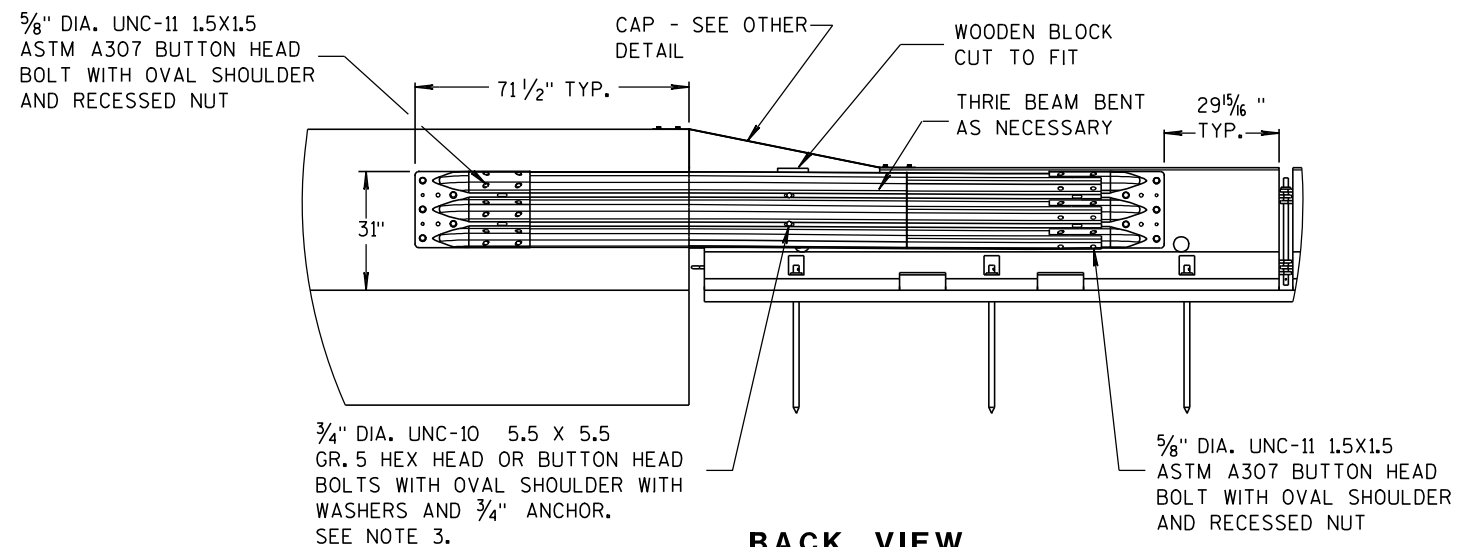
1. CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF PERMANENT BARRIER OR PARAPET.
2. THRIE BEAM PIECES ARE OFFSET 15 1/4" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.
3. MINIMUM MECHANICAL OR EPOXY ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS.
4. MINIMUM MECHANICAL OR EPOXY 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 EPOXY ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.



BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

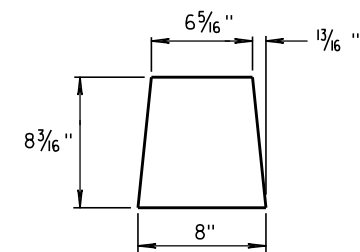


TEMPORARY BARRIER PLACEMENT FOR BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

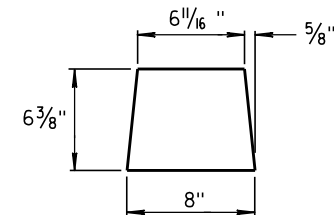


CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

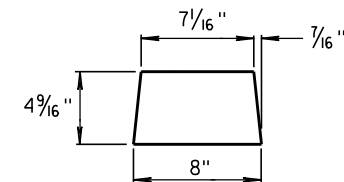
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



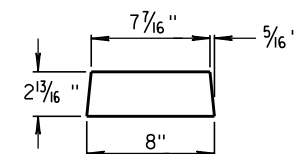
GUSSET 1



GUSSET 2

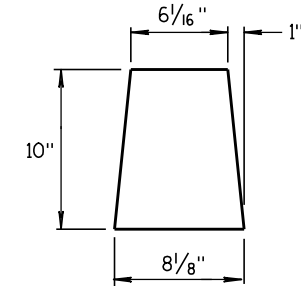


GUSSET 3

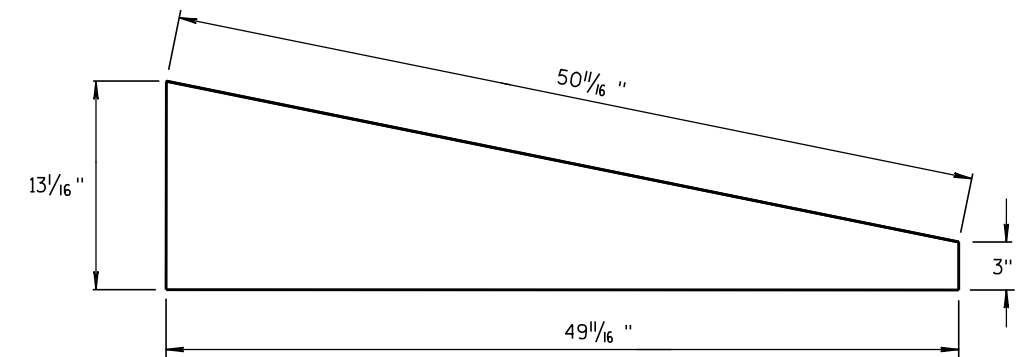


GUSSET 4

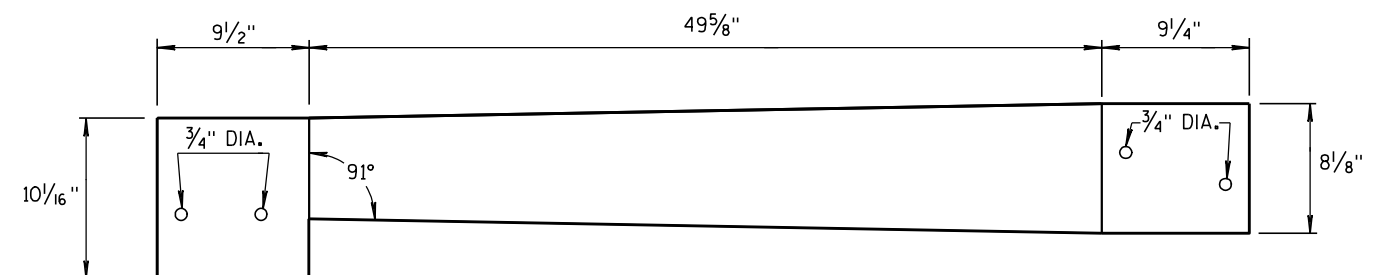
GUSSETS



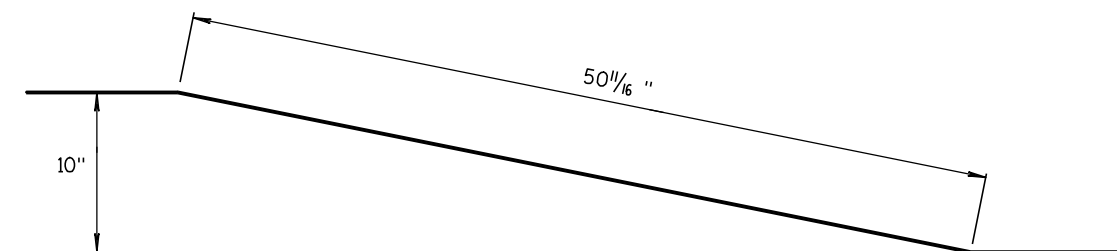
END PLATE



SIDE PLATE

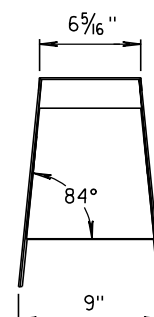


TOP PLATE

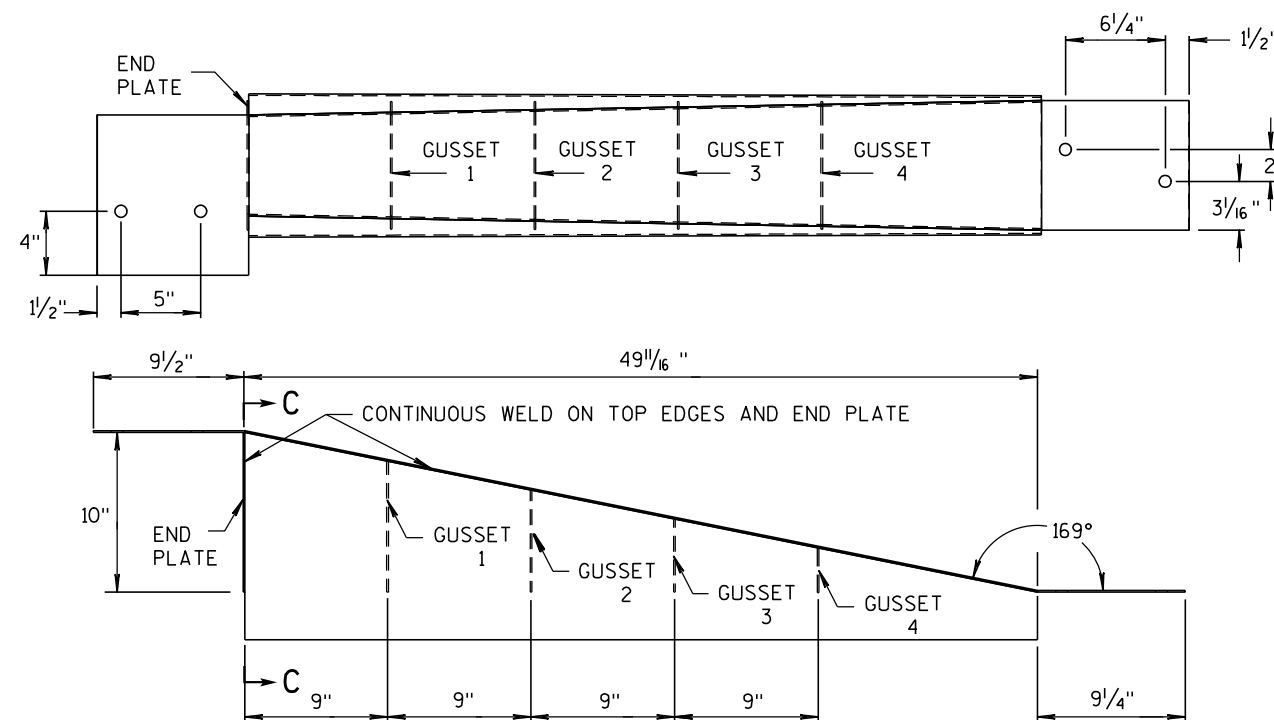


**SIDE, TOP AND END PLATES FOR CAP
FROM TEMPORARY CONCRETE BARRIER
TO 42" PERMANENT CONCRETE BARRIER**

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



SECTION C-C



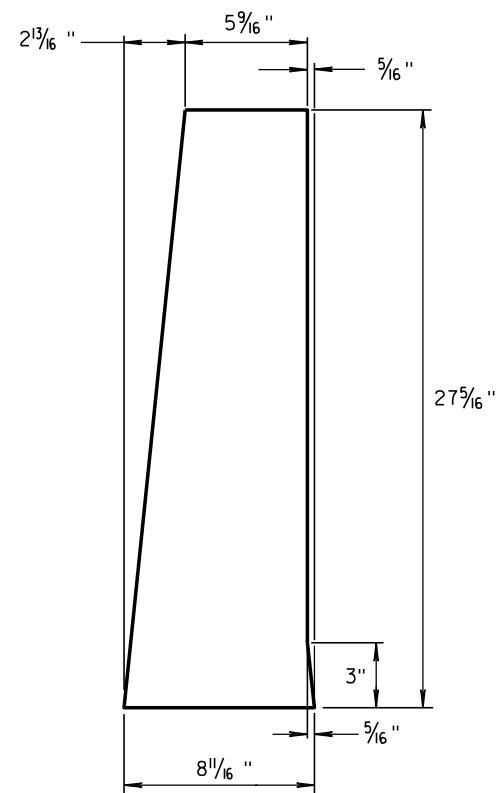
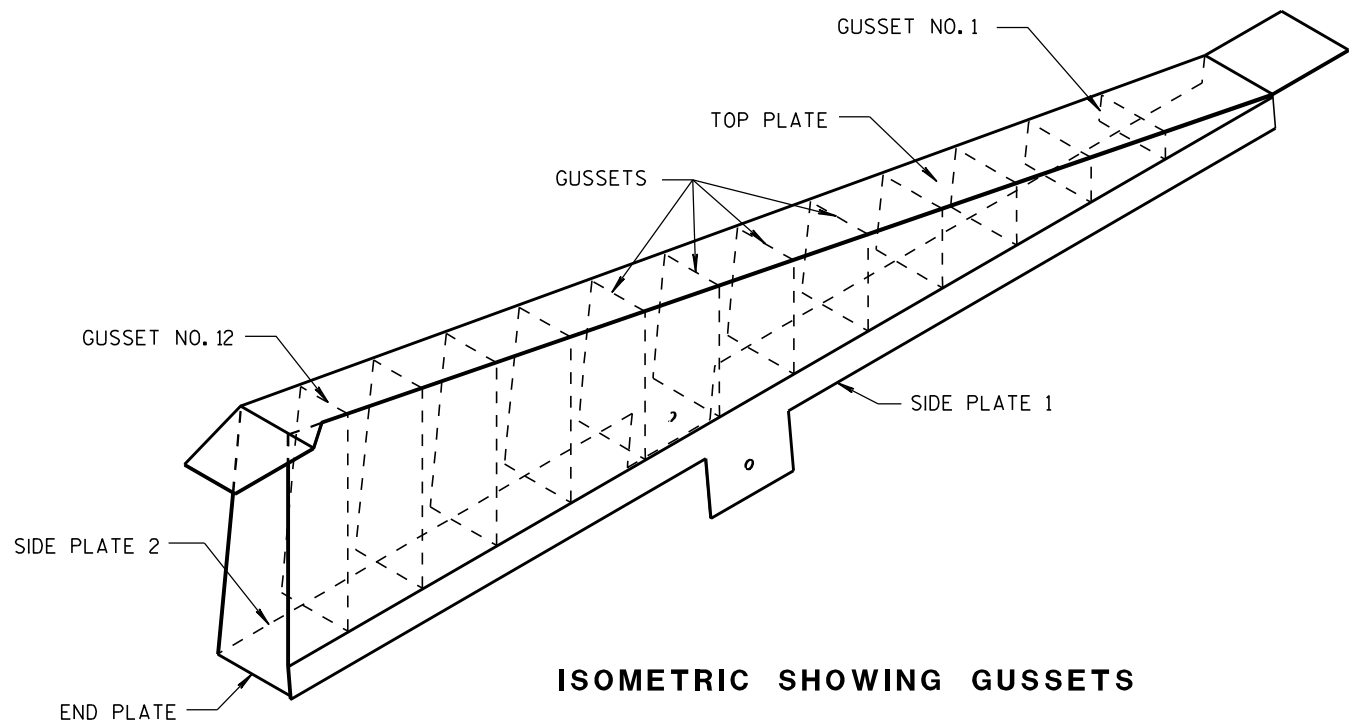
**CAP DETAILS FOR TEMPORARY CONCRETE
BARRIER TO 42" PERMANENT CONCRETE BARRIER**

NOTES

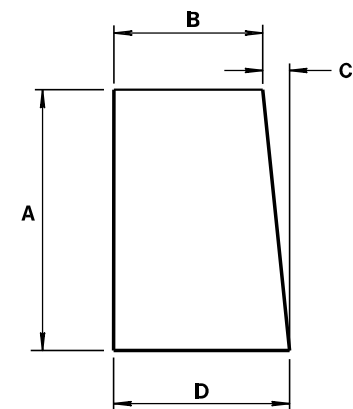
1. FOUR GUSSETS AND END PLATE ARE STITCH WELDED ON THREE SIDES.
2. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE, AND GUSSETS.

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



1/8" STEEL PLATE

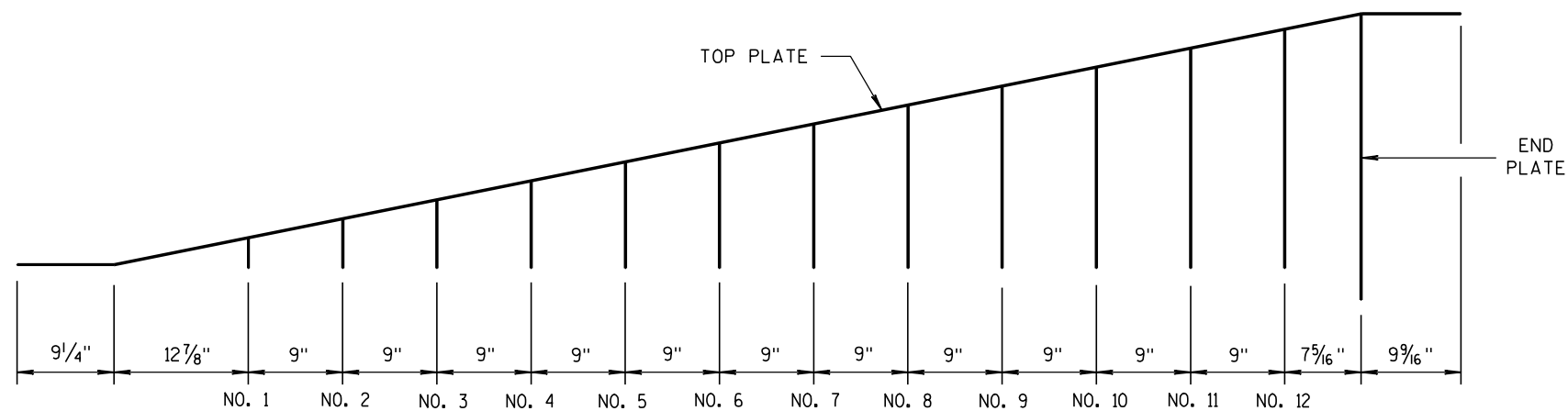


ALL GUSSETS 1/8" STEEL PLATE

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 5/16 "	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.

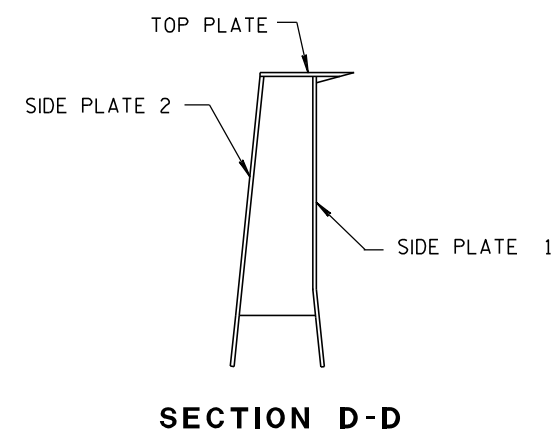
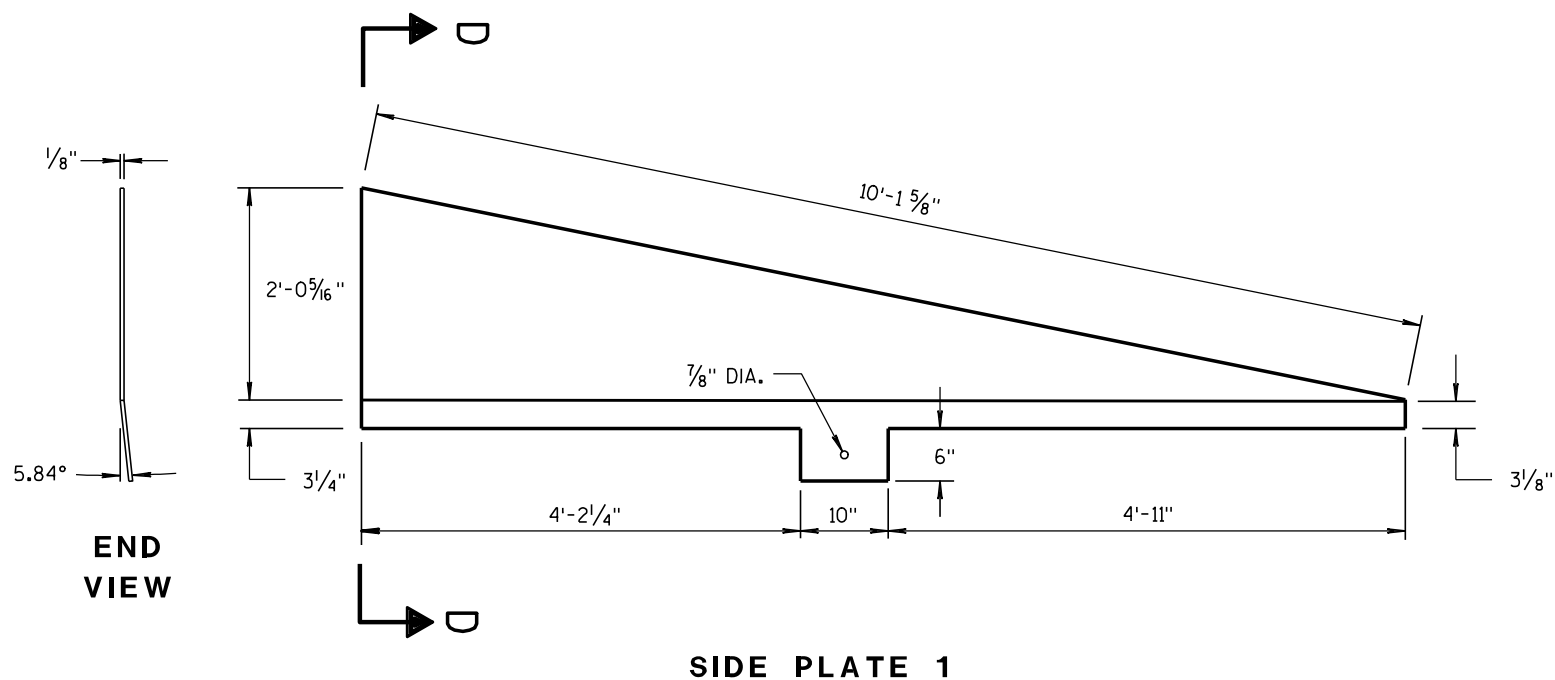
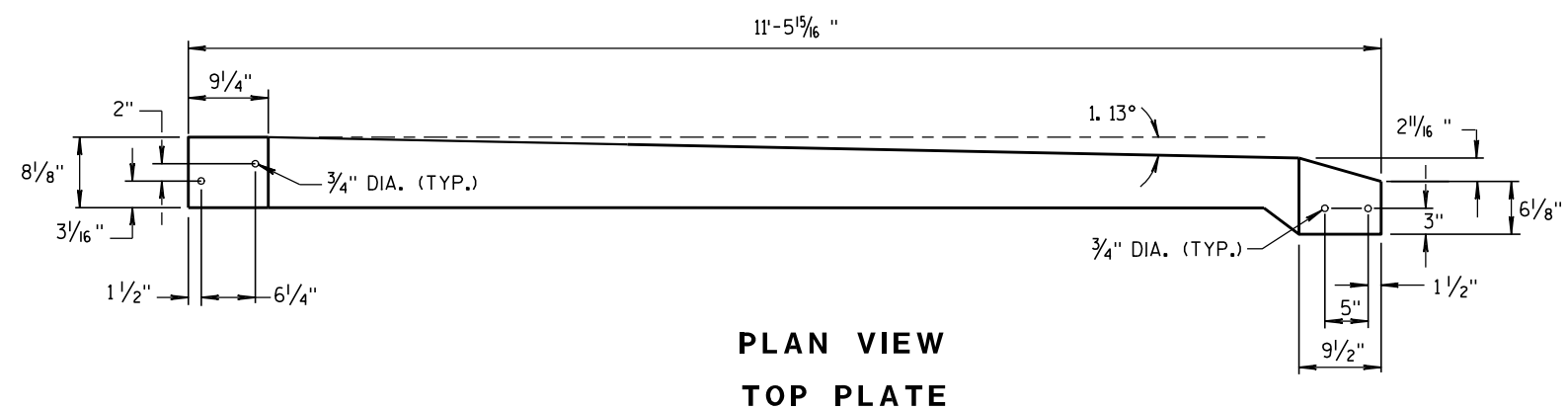
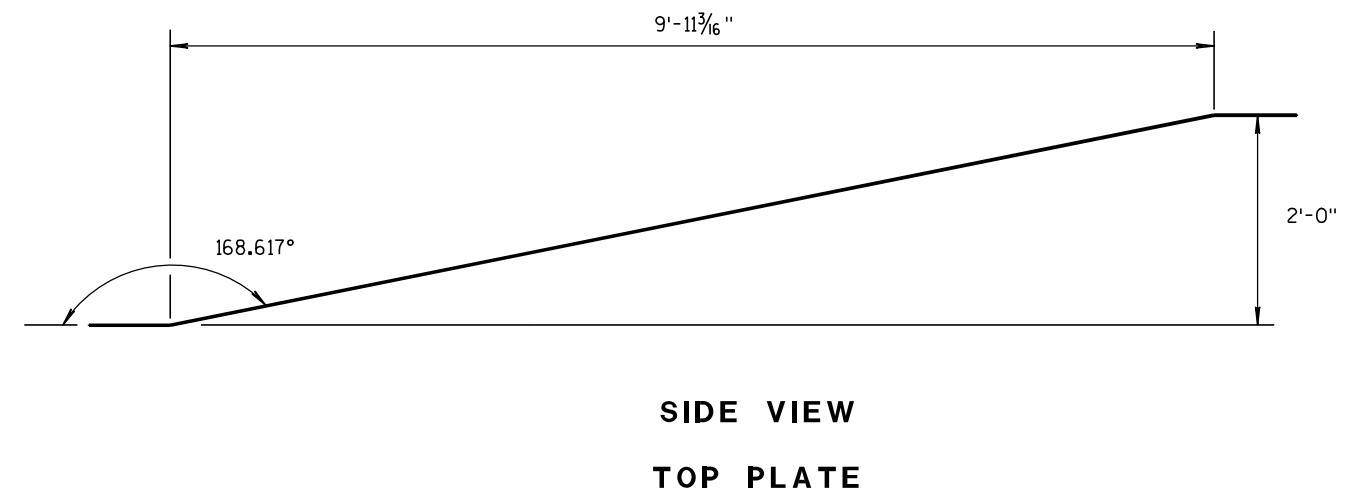
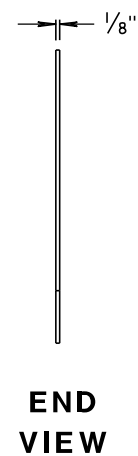
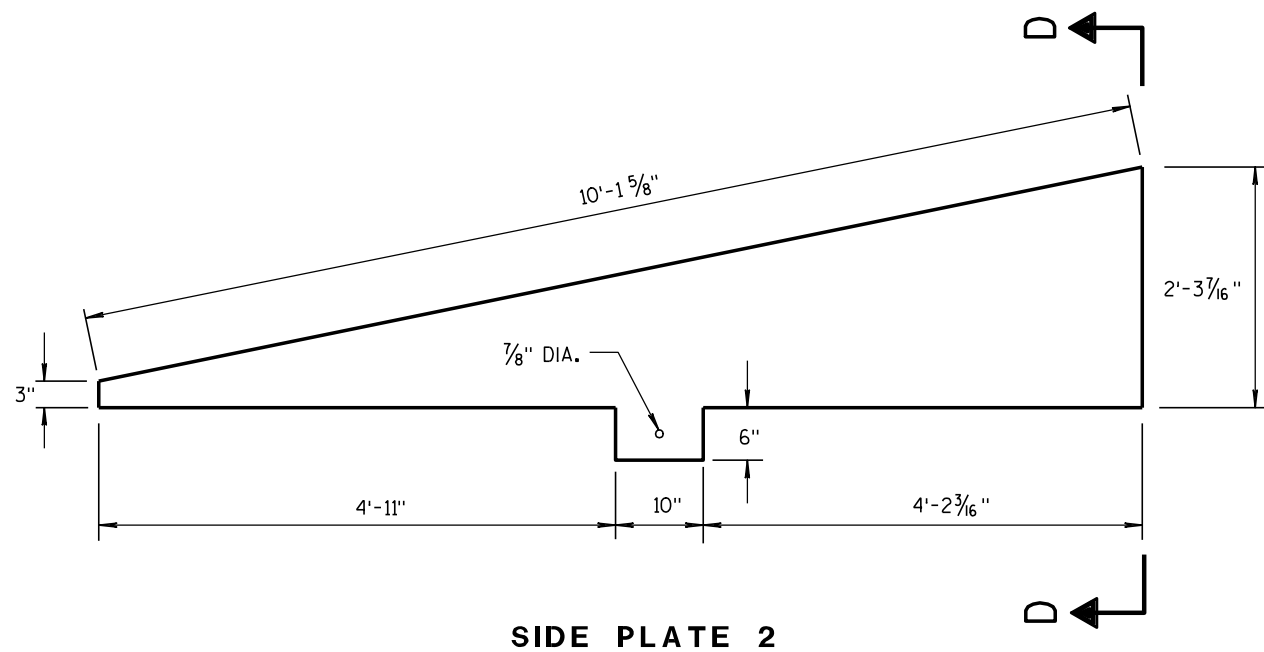
GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.



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

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



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

**CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012

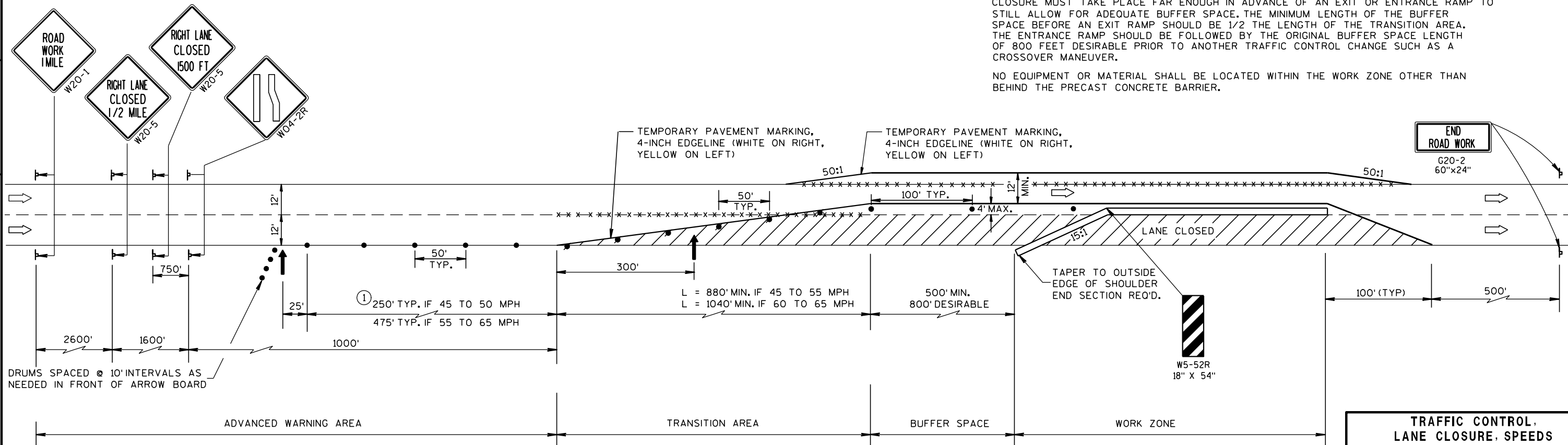
DATE

FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARD DEVELOPMENT
ENGINEER

LEGEND

- POST WITH ATTACHED SIGN
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- ARROW BOARD
- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- DIRECTION OF TRAFFIC
- WORK ZONE



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 AND 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 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.

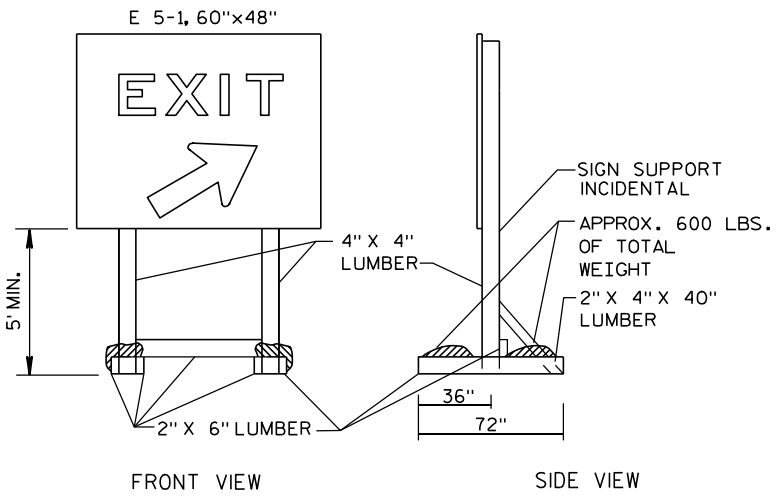
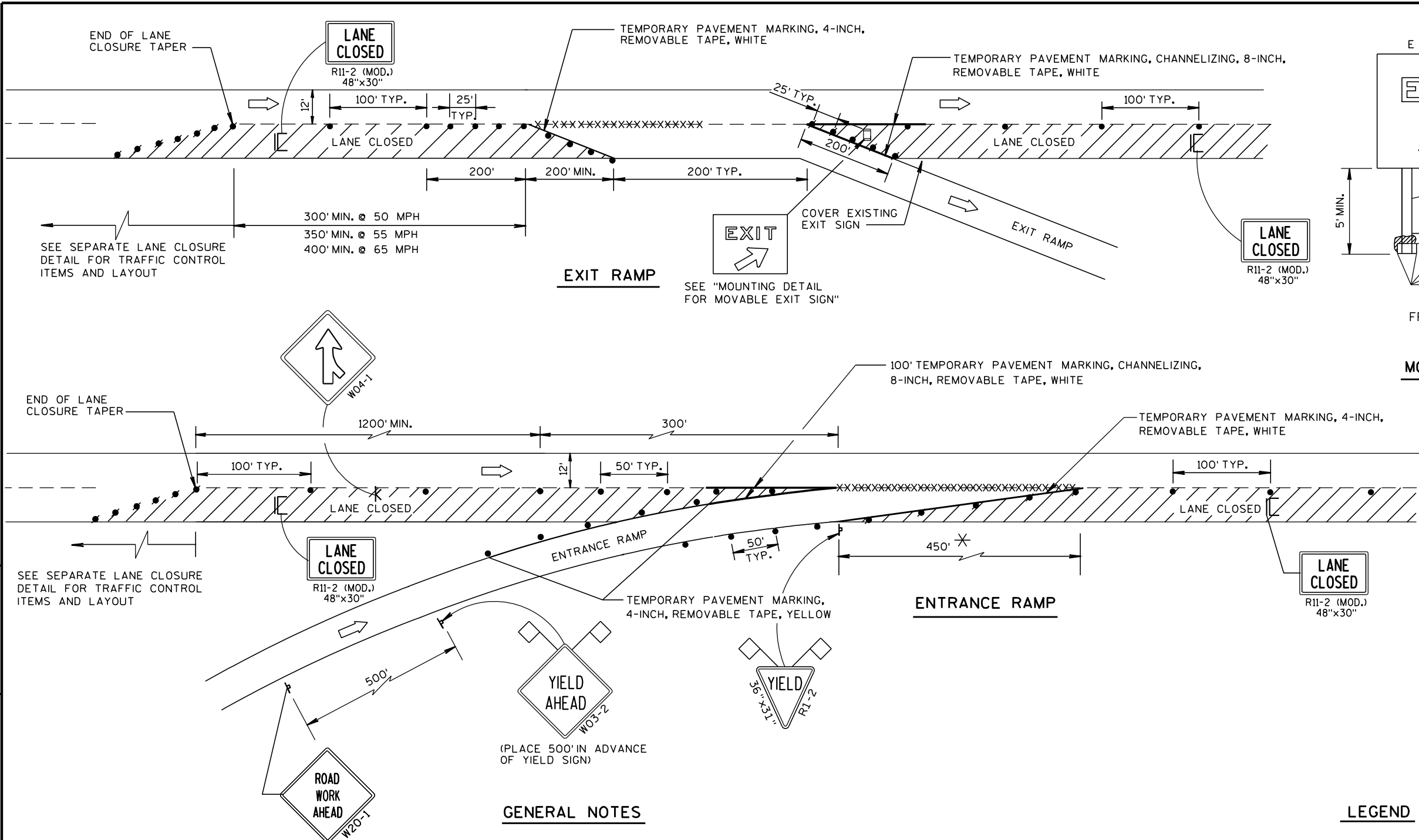
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 7 CONTINUOUS DAYS AND NIGHTS.

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.

NO EQUIPMENT OR MATERIAL SHALL BE LOCATED WITHIN THE WORK ZONE OTHER THAN BEHIND THE PRECAST CONCRETE BARRIER.

TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 7-14-94 DATE	/S/ Chester J. Spang DIRECTOR, OFFICE OF TRAFFIC
FHWA	



FRONT VIEW SIDE VIEW
NOTE: ALL LUMBER DIMENSIONS ARE NOMINAL
MOUNTING DETAIL FOR MOVABLE EXIT SIGN

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 R11-2 (MOD.) "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

- POST MOUNTED SIGN
- SIGN ON PORTABLE SUPPORT
- TRAFFIC CONTROL, DRUM
- TRAFFIC CONTROL, DRUM WITH WARNING LIGHT, TYPE C (STEADY-BURN)
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- TYPE III BARRICADE (8' EQUIVALENT) WITH SIGN
- FLAGS, 16"x16" MIN., ORANGE
- DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 5/24/2000 DATE	/S/ Chester J. Spang CHIEF SIGNS AND MARKING ENGINEER
FHWA	

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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