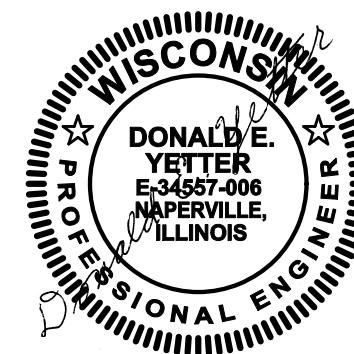
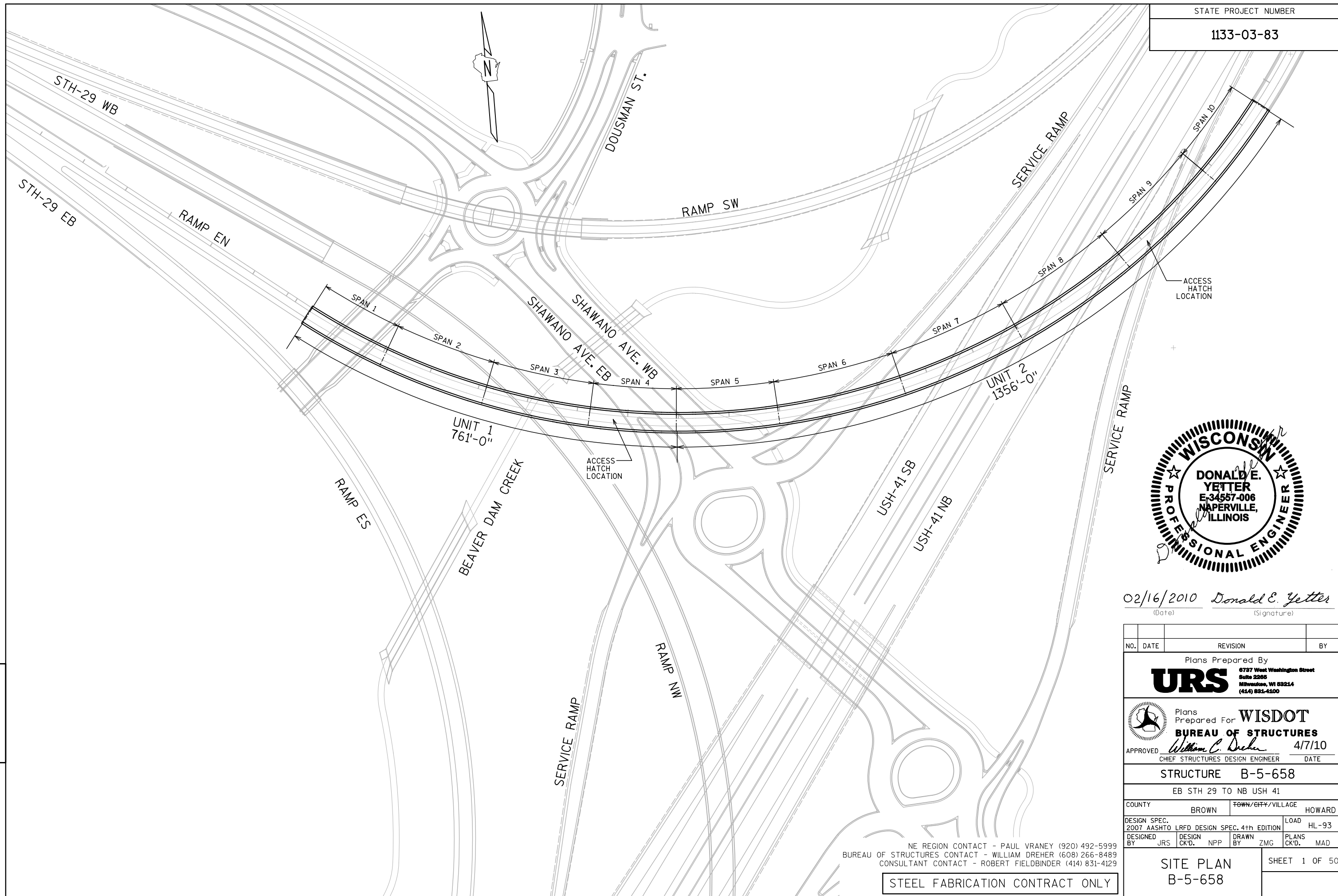




02/16/2010 Donald E. Yetter
(Date) (Signature)

NO.	DATE	REVISION	BY
Plans Prepared By			
		6737 West Washington Street Suite 2265 Milwaukee, WI 53214 (414) 881-4100	
	Plans Prepared For WISDOT BUREAU OF STRUCTURES		4/7/10
APPROVED <i>William C. Decker</i> CHIEF STRUCTURES DESIGN ENGINEER	DATE		
STRUCTURE B-5-658			
EB STH 29 TO NB USH 41			
COUNTY	BROWN	TOWN/CITY/VILLAGE	HOWARD
DESIGN SPEC. 2007 AASHTO LRFD DESIGN SPEC. 4th EDITION	LOAD		HL-93
DESIGNED BY JRS	DESIGN CK'D. NPP	DRAWN BY ZMG	PLANS CK'D. MAD
SITE PLAN B-5-658		SHEET 1 OF 50	

I.D.

DATE: FEB 2010

LIST OF DRAWINGS

1. SITE PLAN B-5-658 TITLE SHEET
2. DRAWING LIST AND GENERAL NOTES
3. GENERAL PLAN AND ELEVATION SPANS 1-4
4. GENERAL PLAN AND ELEVATION SPANS 5-7
5. GENERAL PLAN AND ELEVATION SPANS 8-10
6. TYPICAL CROSS SECTION
7. ALIGNMENT LAYOUT AND SUPERELEVATION
8. BEARING LAYOUT UNIT 1
9. BEARING LAYOUT UNIT 2 - SHEET 1
10. BEARING LAYOUT UNIT 2 - SHEET 2
11. BEARING DETAILS
12. JACKING PROVISIONS
13. FRAMING PLAN UNIT 1 SPANS 1-4
14. FRAMING PLAN UNIT 2 SPANS 5-7
15. FRAMING PLAN UNIT 2 SPANS 8-10
16. GIRDER PLAN AND ELEVATION UNIT 1 - SPAN 1
17. GIRDER PLAN AND ELEVATION UNIT 1 - SPAN 2
18. GIRDER PLAN AND ELEVATION UNIT 1 - SPAN 3
19. GIRDER PLAN AND ELEVATION UNIT 1 - SPAN 4
20. GIRDER PLAN AND ELEVATION UNIT 2 - SPAN 5
21. GIRDER PLAN AND ELEVATION UNIT 2 - SPAN 6
22. GIRDER PLAN AND ELEVATION UNIT 2 - SPAN 7
23. GIRDER PLAN AND ELEVATION UNIT 2 - SPAN 8
24. GIRDER PLAN AND ELEVATION UNIT 2 - SPAN 9
25. GIRDER PLAN AND ELEVATION UNIT 2 - SPAN 10
26. INTERMEDIATE PIER DIAPHRAGMS XD1 AND D1
27. UNIT END DIAPHRAGMS XD2, XD3, D2 AND D3
28. INTERMEDIATE DIAPHRAGMS XD4 AND D4
29. MISCELLANEOUS DIAPHRAGM DETAILS
30. EXTERIOR CROSS FRAME DETAILS
31. INTERIOR CROSS FRAME K1 DETAILS
32. FIELD SPLICE DETAILS
33. BRACING CONNECTION DETAILS
34. BRACING CONNECTION DETAILS SHEET 2
35. MISCELLANEOUS GIRDER DETAILS
36. MISCELLANEOUS GIRDER DETAILS SHEET 2
37. ACCESS HATCH DETAILS
38. ACCESS DOOR DETAILS
39. SUPERSTRUCTURE DETAILS
40. CAMBER DIAGRAM UNIT 1
41. CAMBER DIAGRAM UNIT 2
42.
- THROUGH
50. CAMBER DATA

GENERAL NOTES

A DETAILED STUDY OF THE REDUNDANCY FOR THIS STRUCTURE VERIFIED THAT THERE ARE NO ELEMENTS TO BE OFFICIALLY CLASSIFIED AS FRACTURE CRITICAL MEMBERS. HOWEVER, SOME MEMBERS AND/OR ELEMENTS OF THEM SHALL BE FURNISHED, FABRICATED, AND TESTED IN ACCORDANCE WITH REQUIREMENTS FOR FRACTURE CRITICAL MEMBERS (SEE FOLLOWING NOTES). AFTER COMPLETION OF CONSTRUCTION, FUTURE INSPECTIONS OF THE IN-SERVICE BRIDGE WILL BE PERFORMED ON THE BASIS OF IT BEING CLASSIFIED AS A REDUNDANT STRUCTURE.

ALL STRUCTURAL STEEL PLATE FOR BOX GIRDER FLANGES AND WEBS, BOX GIRDER FLANGE AND WEB SPLICE PLATES, EXTERNAL AND INTERNAL DIAPHRAGMS FOR BOX GIRDERS, AND ALL OTHER STEEL PLATE COMPONENTS WELDED TO ANY OF THESE ELEMENTS SHALL BE HIGH STRENGTH ASTM A709 (AASHTO M270) GRADE HPS 50W (FY=50 KSI). ALL OTHER STEEL SHALL BE IN ACCORDANCE WITH ASTM A709 GRADE 50 (FY=50 KSI).

ALL STRUCTURAL STEEL PLATE FOR BOX GIRDER FLANGES AND WEBS IN TENSION ZONES AS SHOWN ON THE PLANS AND ALL ASSOCIATED SPLICE PLATES, ALL ATTACHING TRANSVERSE WEB STIFFENERS AND CONNECTION PLATES, AND ALL STEEL PLATE ELEMENTS OF EXTERNAL AND INTERNAL DIAPHRAGMS FOR BOX GIRDERS SHALL MEET THE FRACTURE CRITICAL TENSION COMPONENT IMPACT TEST REQUIREMENTS OF HPS 50WF/HPS 345WF OF TABLE 10 OF ASTM A709/A709M-05 FOR ZONE 2.

ALL WELDING PERFORMED IN TENSION ZONES SHOWN ON THE PLANS FOR BOX GIRDER WEB AND FLANGE ELEMENTS, INCLUDING ATTACHING TRANSVERSE WEB STIFFENER AND CONNECTION PLATES, AND ALL WELDING PERFORMED FOR ALL ELEMENTS OF EXTERNAL AND INTERNAL STEEL PLATE DIAPHRAGMS FOR BOX GIRDERS SHALL BE PERFORMED, TESTED, AND INSPECTED IN ACCORDANCE WITH REQUIREMENTS FOR FABRICATION OF FRACTURE CRITICAL MEMBERS.

CHARPY V-NOTCH TOUGHNESS REQUIREMENTS FOR ALL STEEL SHALL CONFIRM TO THE REQUIREMENTS FOR ZONE 2.

DRAWINGS SHALL NOT BE SCALED.

ALL DIMENSIONS ARE IN FEET AND INCHES. ALL STATIONS AND ELEVATIONS ARE IN FEET.

ELEVATIONS ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.

GIRDERS AND OTHER ELEMENTS OF THE STRUCTURE ARE REFERRED TO AS 'LEFT' AND 'RIGHT'. THESE ORIENTATIONS ARE WITH RESPECT TO THE REFERENCE LINE WHEN LOOKING IN THE DIRECTION OF INCREASING STATION.

TRANSVERSE DIMENSIONS ARE RADIAL TO THE REFERENCE LINE UNLESS NOTED OTHERWISE.

ALL WELDING SHALL BE IN ACCORDANCE WITH THE CURRENT AASHTO/AWS D1.5 BRIDGE WELDING CODE.

USE WELD MATERIAL WITH A TENSILE STRENGTH AT LEAST 20 KSI GREATER THAN THE YIELD STRENGTH OF THE STEEL BEING WELDED. NON-WEATHERING CONSUMABLES MAY BE USED FOR SINGLE-PASS FILLET WELDS.

FABRICATE BEARING ASSEMBLIES FROM ASTM A709 GRADE 50 MATERIAL (FY=50 KSI).

PROVIDE ANCHOR RODS, NUTS AND WASHERS CONFORMING TO ASTM F1554 (GRADE 105) AND HOT-DIP GALVANIZE IN ACCORDANCE WITH AASHTO M232.

ALL BOLTS SHALL BE ASTM A325 TYPE 1. BOLTS SHALL BE 7/8" DIAMETER UNLESS NOTED OTHERWISE. ALL HOLES SHALL BE STANDARD DIAMETER. NO OVERSIZE HOLES WILL BE PERMITTED WITHOUT PRIOR APPROVAL. ALL CONNECTIONS SHALL BE FABRICATED AND ASSEMBLED AS SLIP-CRITICAL CONNECTIONS. DESIGN ASSUMED SURFACE CLASS A.

PAINT ALL STRUCTURAL STEEL, INCLUDING SURFACES AND BRACING MEMBERS ON THE INSIDE OF THE BOX GIRDERS, IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

THIS CONTRACT INCLUDES FABRICATING, FURNISHING, STORING AND DELIVERING STRUCTURAL STEEL AND BEARINGS AS SHOWN IN THESE PLANS AND DESCRIBED IN THE SPECIAL PROVISIONS.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEM	UNIT	QUANTITY
SPV.0060.01	BEARINGS HIGH-LOAD MULTI-ROTATIONAL FIXED	EACH	8
SPV.0060.02	BEARINGS HIGH-LOAD MULTI-ROTATIONAL UNI-DIRECTIONAL	EACH	16
SPV.0085.01	FABRICATED STRUCTURAL STEEL HPS 50W	LB	4,653,500
SPV.0085.02	FABRICATED STRUCTURAL STEEL HS	LB	327,800
SPV.0105.01	PAINTING POLYSILOXANE SYSTEM STRUCTURE B-05-658	LS	1

DESIGN CRITERIA

DESIGN IS IN ACCORDANCE WITH AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE DESIGN SPECIFICATIONS, 4TH EDITION WITH 2008 AND 2009 INTERIM REVISIONS, AND THE WISDOT BRIDGE MANUAL.

ALL DETAILS, MATERIALS, AND FABRICATION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION OF THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION EDITION OF 2010, EXCEPT AS OTHERWISE NOTED.

LIVE LOAD PLUS DYNAMIC LOAD DEFLECTION LIMIT = SPAN / 800 (HL93).

DESIGN LIVE LOAD

DESIGN LOADING: HL-93

INVENTORY RATING FACTOR: RF = 1.03

OPERATING RATING FACTOR: RF = 1.34

WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS

OTHER DESIGN LOADS

THE STRUCTURE IS DESIGNED FOR THE DECK THICKNESS SHOWN, WHICH INCLUDES A 2" INTEGRAL WEARING SURFACE. NO ADDITIONAL LOAD FOR A FUTURE WEARING SURFACE IS CONSIDERED IN THE DESIGN.

TEMPERATURE CHANGE FOR DETERMINING THERMAL FORCES ON SUBSTRUCTURES = 90°F.

BEARING MOVEMENT RANGE IS BASED ON BEARING CENTERED AT 60°F AND ACCOMODATING 90°F OF MOVEMENT IN EITHER DIRECTION.

DESIGN ASSUMED A WEIGHT PER GIRDER OF 10 PSF FOR STAY-IN-PLACE METAL FORMS INSIDE EACH GIRDER ONLY AND 13.5 PSF FOR CONCRETE WITHIN THE RIBS OF THESE FORMS.

DESIGN ASSUMED 7.5 PSF FOR TEMPORARY FORMWORK IN ADDITION TO STAY-IN-PLACE FORMS.

PARAPETS WERE ASSUMED TO WEIGH 525 PLF AND 420 PLF FOR 42" AND 32" SECTIONS RESPECTIVELY.

ALL OTHER LOADS IN ACCORDANCE WITH AASHTO.

MINIMUM FILLET WELD SIZE:

THICKNESS OF THICKER PART JOINED	MINIMUM WELD SIZE
T <= 1/2"	3/16"
1/2" < T <= 3/4"	1/4"
3/4" < T <= 1 1/2"	5/16"
1 1/2" < T <= 2 1/4"	3/8"
T > 2 1/4"	1/2"

MINIMUM WELD SIZES SHOWN SHALL BE USED WHEN A SIZE IS NOT OTHERWISE SPECIFIED OR SHOWN.

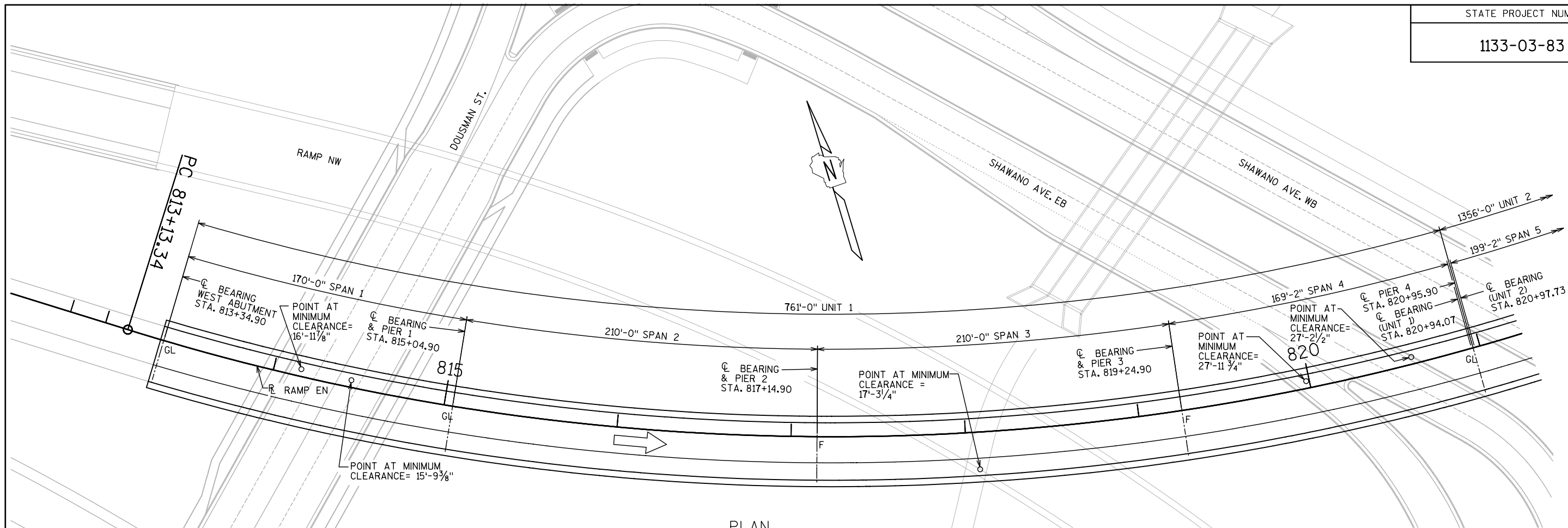
WELD SIZE SHALL NOT EXCEED THE THICKNESS OF THE THINNER PART BEING JOINED.

FOR ALL WELDS 5/16" OR LARGER, THE MINIMUM PASS SIZE SHALL BE 5/16".

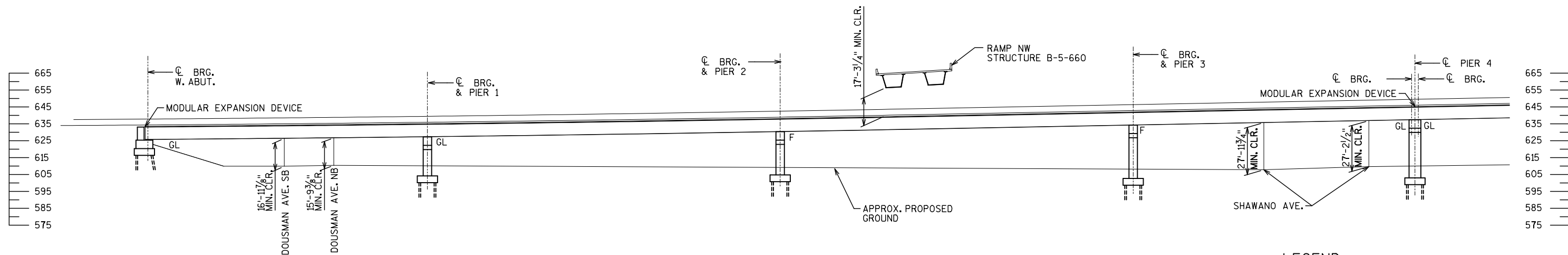
STATE PROJECT NUMBER

1133-03-83

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
		DRAWN BY JRS	PLANS CK'D. MAD
DRAWING LIST AND GENERAL NOTES			SHEET 2 OF 50



PLAN



ELEVATION

NOTES:

ALL SUBSTRUCTURE UNITS ARE NORMAL TO $\mathcal{R}$.
SUBSTRUCTURES ARE SHOWN FOR REFERENCE
ONLY. SPECIFIC DETAILS INCLUDING CONFIGURATION
OF PILES WILL BE CONFIRMED IN A FUTURE CONTRACT.

DIMENSIONS SHOWN ARE ALONG $\mathcal{R}$.

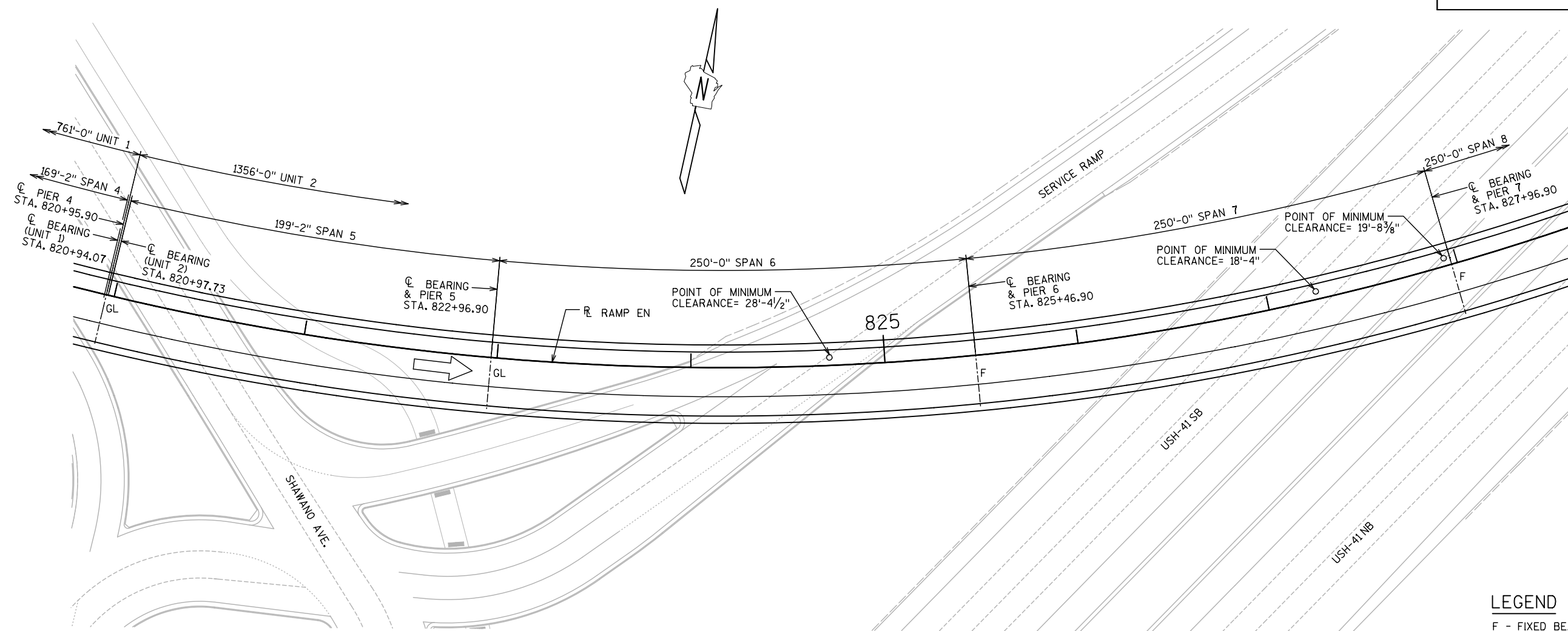
SPAN LENGTHS SHOWN ARE MEASURED ALONG $\mathcal{R}$.

FOR CURVE DATA SEE ALIGNMENT LAYOUT AND
SUPERELEVATION SHEET.

LEGEND

F - FIXED BEARING
GL - GUIDED LONGITUDINAL UNIDIRECTIONAL BEARING

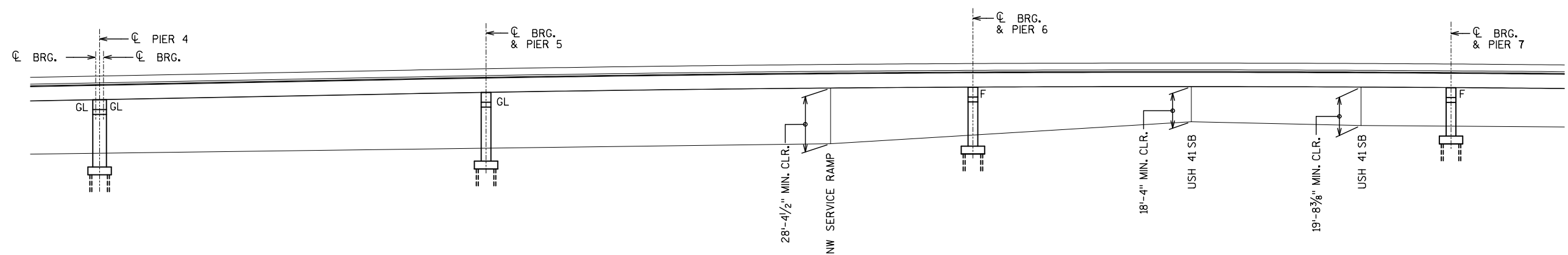
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY JRS		PLANS CK'D. NPP	
GENERAL PLAN & ELEVATION SPANS 1-4			SHEET 3 OF 50



PLAN

LEGEND

F - FIXED BEARING
GL - GUIDED LONGITUDINAL
UNIDIRECTIONAL BEARING



ELEVATION

FOR NOTES, SEE GENERAL PLAN AND
ELEVATION SPANS 1 TO 4 SHEET.

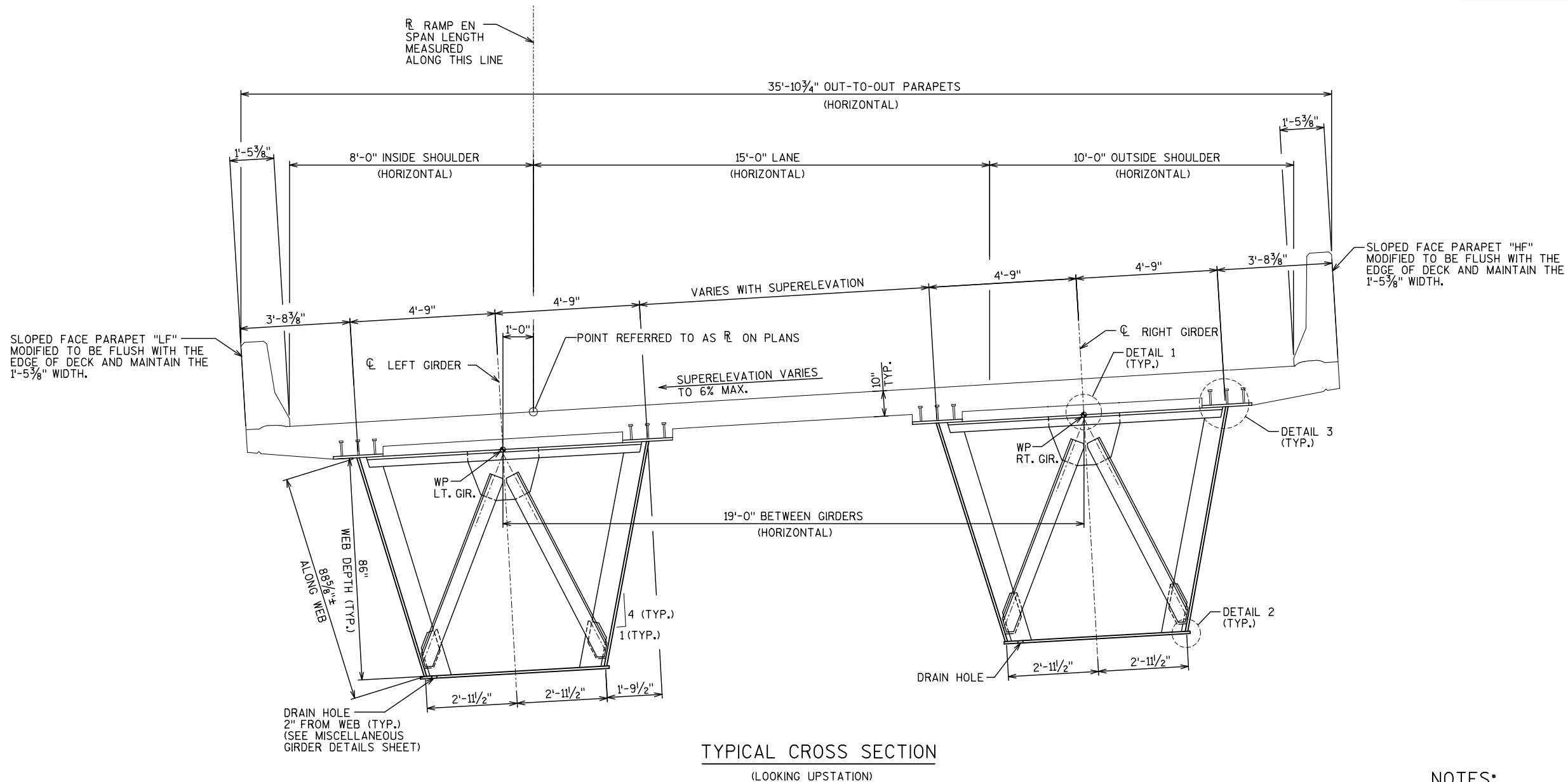
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY JRS		PLANS CK'D. NPP	
GENERAL PLAN & ELEVATION SPANS 5-7			SHEET 4 OF 50



F - FIXED BEARING
GL - GUIDED LONGITUDINAL
UNIDIRECTIONAL BEARING



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
		DRAWN BY JRS	PLANS CK'D. NPP
GENERAL PLAN & ELEVATION SPANS 8-10		SHEET 5 OF 50	

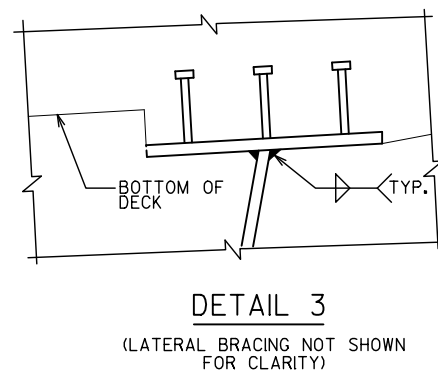
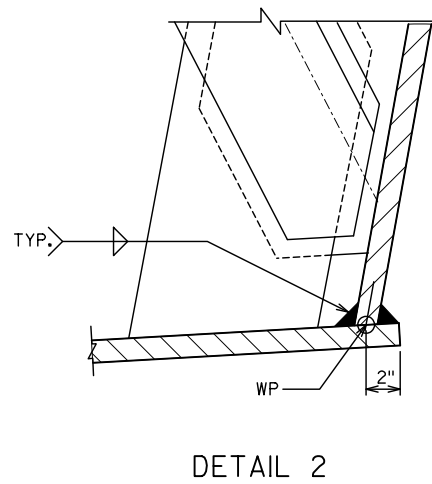
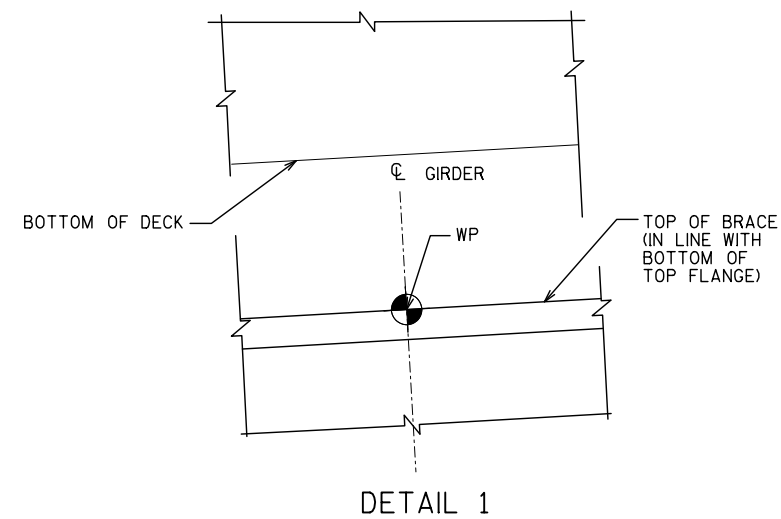
**NOTES:**

STAY-IN-PLACE METAL FORMS
PERMITTED INSIDE BOX GIRDERS ONLY.

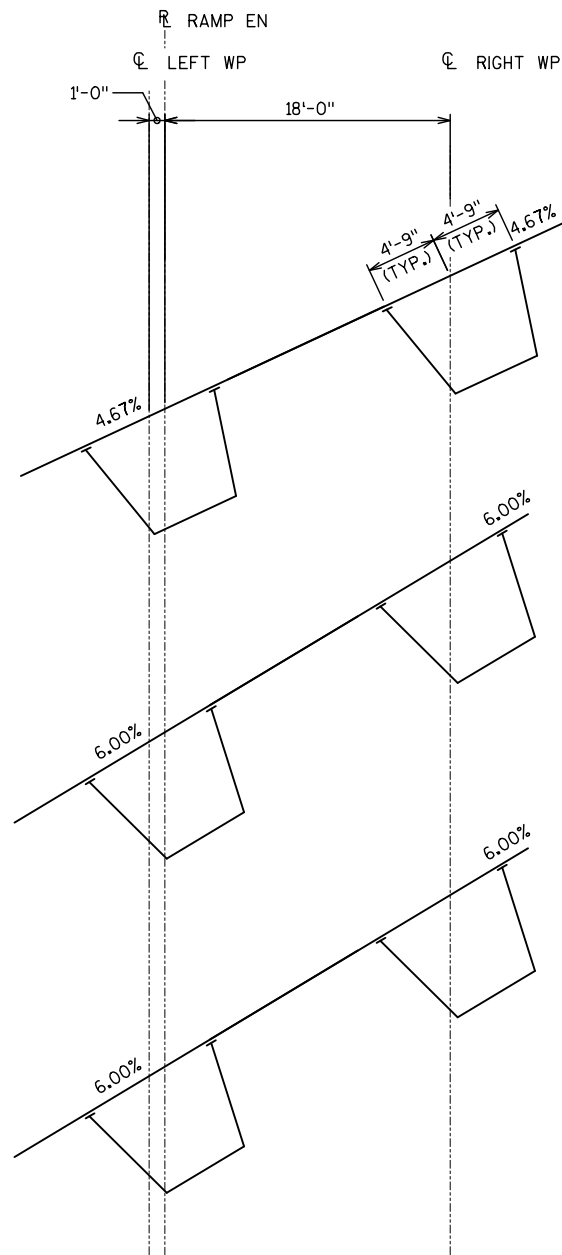
WP= WORK POINT TO WHICH DIMENSIONS
ARE MEASURED.

SEE SUPERSTRUCTURE DETAILS FOR
HAUNCH.

CONCRETE DECK, PARAPETS, SHEAR
CONNECTORS AND STAY-IN-PLACE
FORMS SHOWN HERE FOR REFERENCE
ONLY, TO BE PROVIDED BY OTHERS
DURING FUTURE CONTRACT.



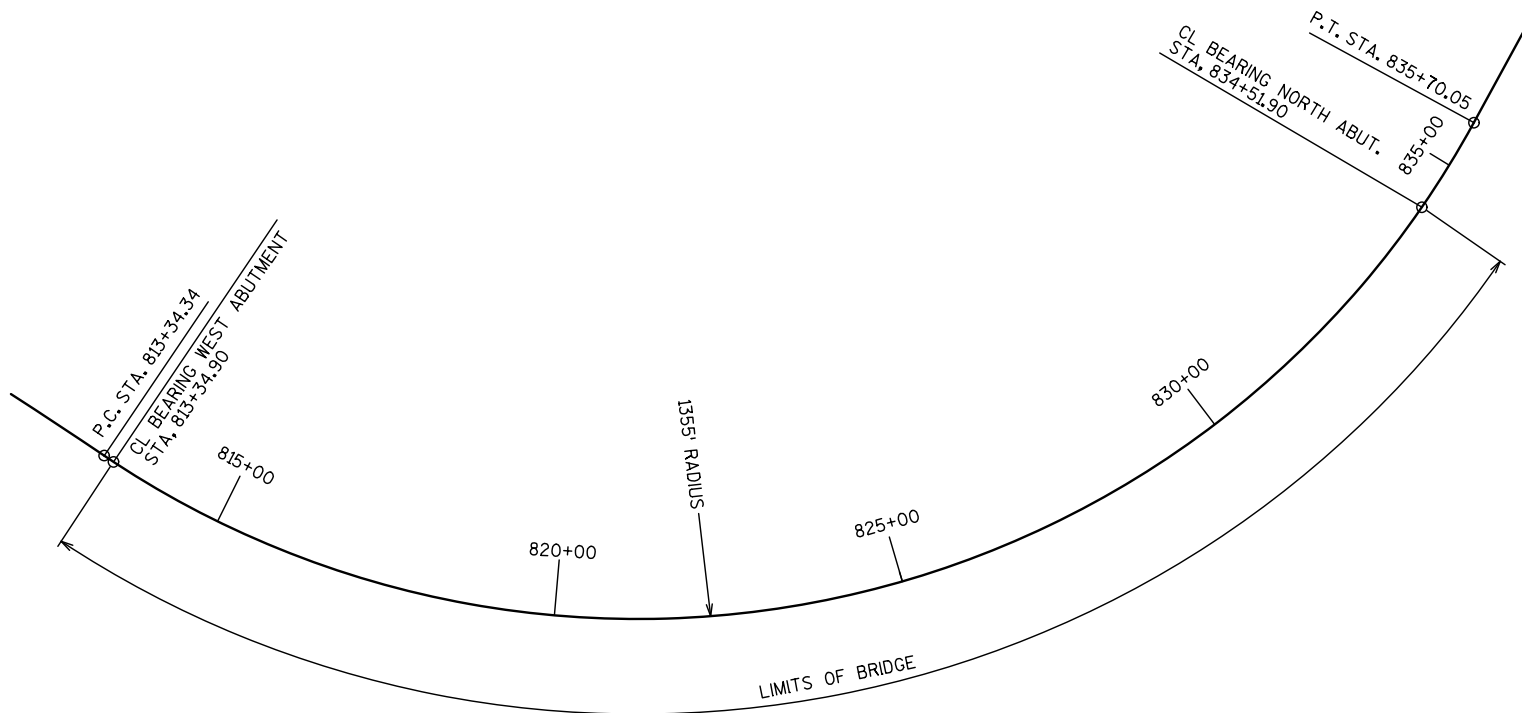
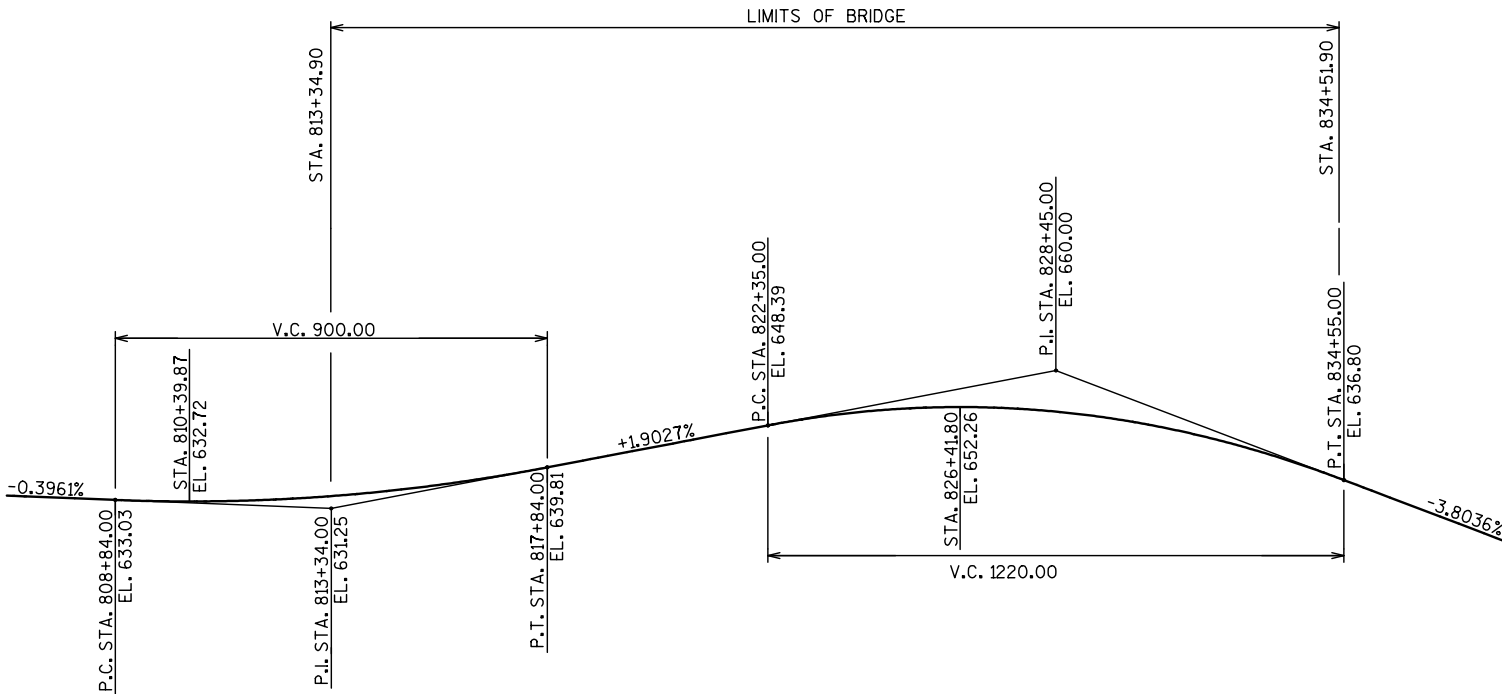
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY JRS		PLANS CK'D. NPP	
TYPICAL CROSS SECTION			SHEET 6 OF 50



CL BEARING WEST ABUTMENT B-5-658
STA. 813+34.90

BEGIN FULL SUPERELEVATION
STA. 813+79.34

CL BEARING NORTH ABUTMENT B-5-658
STA. 834+51.90



EB STH-29 TO
NB USH-41
HORIZONTAL
CURVE DATA

P.I. STA.= 828+03.10
N= 575662.88
E= 83655.58
P.C. STA.= 813+13.34
P.T. STA.= 835+70.05
 Δ = 95°25'27.06"
D= 4°13'42.49"
T= 1489.76'
L= 2256.71'
R= 1355.00'

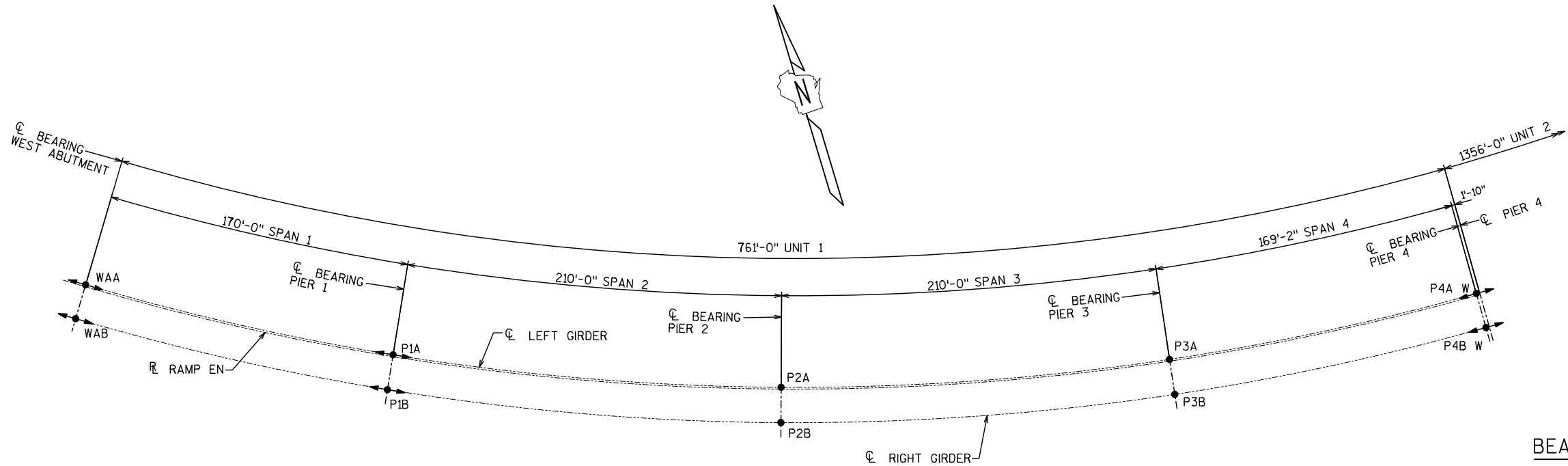
NOTES:

GIRDER FLANGES ALWAYS PARALLEL
TO DECK ABOVE.

HAUNCH HEIGHT CONSTANT AT 4".

WP= WORK POINT TO WHICH
DIMENSIONS ARE MEASURED.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY ZMG		PLANS CK'D. MAD	
ALIGNMENT LAYOUT AND SUPERELEVATION		SHEET 7 OF 50	



BEARING LAYOUT
(LENGTH NOT TO SCALE)

BEARING LEGEND

- MULTIROTATIONAL FIXED
- ➔➔➔ MULTIROTATIONAL UNIDIRECTIONAL (GUIDED)
ARROWHEADS DENOTE MOVEMENT DIRECTIONS.

NOTES:

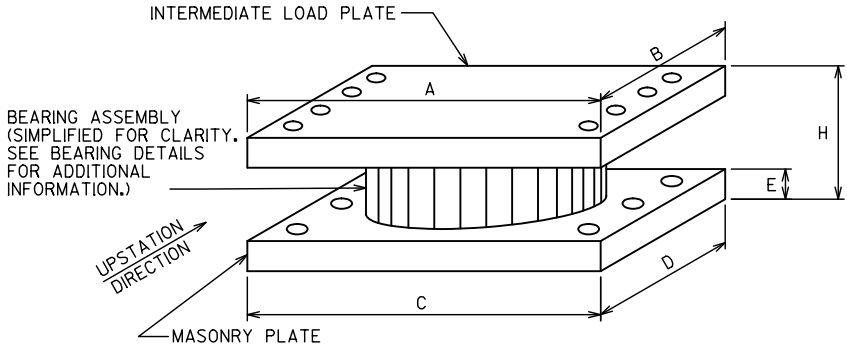
SEE BEARING DETAILS SHEET FOR TYPICAL BEARING DETAILS

BEARING DIMENSIONS SHOWN ARE NOMINAL VALUES ONLY AND MAY VARY WITH THE SELECTED MANUFACTURER. IF BEARING DIMENSIONS VARY FROM THOSE SHOWN HERE, THE BEARING MANUFACTURER SHALL COORDINATE WITH THE STEEL GIRDER FABRICATOR TO ASSURE THERE ARE NO CONFLICTS WITH JACKING PADS OR ANY OTHER STEEL ELEMENTS. THE STEEL GIRDER FABRICATOR IS RESPONSIBLE TO DETERMINE WHAT ELEMENTS REQUIRE RE-DESIGN AND TO RE-DESIGN THEM, SUBJECT TO APPROVAL BY THE ENGINEER.

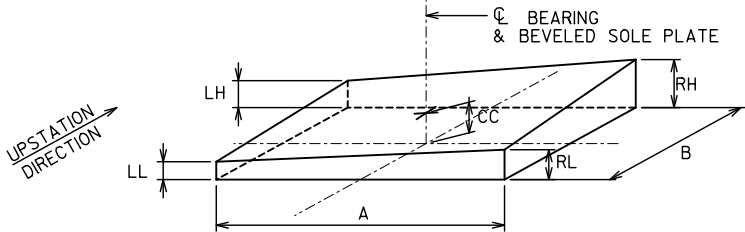
HORIZONTAL FORCES SPECIFIED IN THE TABLE ARE THE EXPECTED APPLIED FORCES. DESIGN BEARINGS AND CONNECTIONS FOR THESE VALUES OR 10 PERCENT OF THE VERTICAL DEAD LOAD, WHICHEVER IS LARGER.

ROTATIONS SPECIFIED IN THE TABLE ARE THE EXPECTED APPLIED ROTATIONS FROM APPLICABLE STRENGTH LOAD COMBINATIONS. DESIGN BEARINGS FOR AN ADDITIONAL 0.005 RADIAN FOR FABRICATION AND INSTALLATION TOLERANCES, AND 0.005 RADIAN FOR UNCERTAINTIES. DESIGN ALL BEARINGS FOR A MINIMUM 0.020 RADIAN OF TOTAL ROTATION.

BEARING MARK	BEARING TYPE	SERVICE I LIMIT STATE VERTICAL LOADS		SERVICE I LIMIT STATE HORIZ. LOADS		ROTATIONS		MOVEMENT RANGE (FOR 180 DEG.) LONGIT. (IN)	TAPERED SOLE PLATE THICKNESS					NOMINAL BEARING DIMENSIONS						MIN. ANCHOR BOLTS	MIN. TOP BOLTS
		DEAD LOAD (KIPS)	TOTAL LOAD (KIPS)	TRAN. LOAD (KIPS)	LONGIT. LOAD (KIPS)	X-AXIS TORSION (RAD)	Y-AXIS FLEXURE (RAD)		LL (IN)	RL (IN)	LH (IN)	RH (IN)	CC (IN)	A (IN)	B (IN)	C (IN)	D (IN)	E (IN)	H (IN)		
WAA	GUIDED	294	541	45	35	0.0028	0.0038	6.81	1.00	2.54	1.16	2.70	1.85	33	21.75	28.625	20.625	1.75	7.125	4-1" DIA.	4-1" DIA.
WAB	GUIDED	294	541	45	35	0.0028	0.0038	6.81	1.00	2.54	1.28	2.82	1.91	33	21.75	28.625	20.625	1.75	7.125	4-1" DIA.	4-1" DIA.
P1A	GUIDED	901	1372	64	44	0.0002	0.0017	4.42	1.00	3.31	1.36	3.67	2.33	38.5	30.25	36.25	28.25	1.75	9	4-1" DIA.	4-1" DIA.
P1B	GUIDED	901	1372	64	44	0.0002	0.0017	4.42	1.00	3.31	1.36	3.67	2.33	38.5	30.25	36.25	28.25	1.75	9	4-1" DIA.	4-1" DIA.
P2A	FIXED	888	1371	60	206	0.0002	0.0016		1.00	3.24	1.50	3.74	2.37	37.25	29.25	41.25	33.25	1.75	11.5	4-1 1/2" DIA.	8-1" DIA.
P2B	FIXED	888	1371	60	206	0.0002	0.0016		1.00	3.24	1.50	3.74	2.37	37.25	29.25	41.25	33.25	1.75	11.5	4-1 1/2" DIA.	8-1" DIA.
P3A	FIXED	900	1371	57	204	0.0002	0.0014		1.00	3.24	1.56	3.79	2.40	37.25	29.25	41.25	33.25	1.75	11.5	4-1 1/2" DIA.	8-1" DIA.
P3B	FIXED	900	1371	57	204	0.0002	0.0014		1.00	3.24	1.56	3.79	2.40	37.25	29.25	41.25	33.25	1.75	11.5	4-1 1/2" DIA.	8-1" DIA.
P4A W	GUIDED	292	540	45	35	0.0014	0.0047	3.85	1.00	2.98	1.41	3.39	2.20	33	21.75	28.625	20.625	1.75	7.125	4-1" DIA.	4-1" DIA.
P4B W	GUIDED	292	540	45	35	0.0014	0.0047	3.85	1.00	2.98	1.41	3.39	2.20	33	21.75	28.625	20.625	1.75	7.125	4-1" DIA.	4-1" DIA.

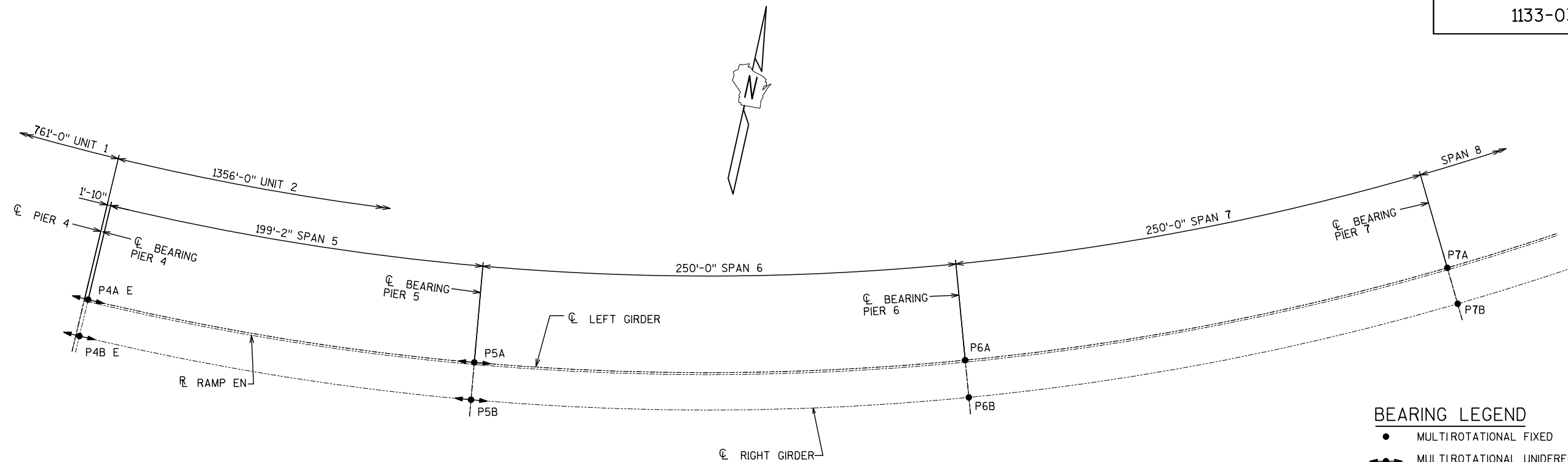


BEARING DIMENSION KEY



BEVELED SOLE PLATE DIMENSION KEY
(HOLES MATCHING INTERMEDIATE LOAD PLATE NOT SHOWN FOR CLARITY)

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY ZMG		PLANS CK'D. MAD	
BEARING LAYOUT UNIT 1		SHEET 8 OF 50	

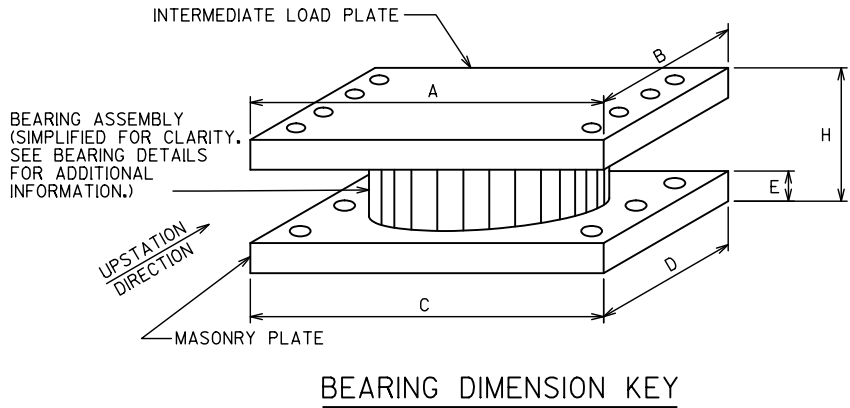


BEARING LAYOUT
GIRDER LENGTH NOT TO SCALE

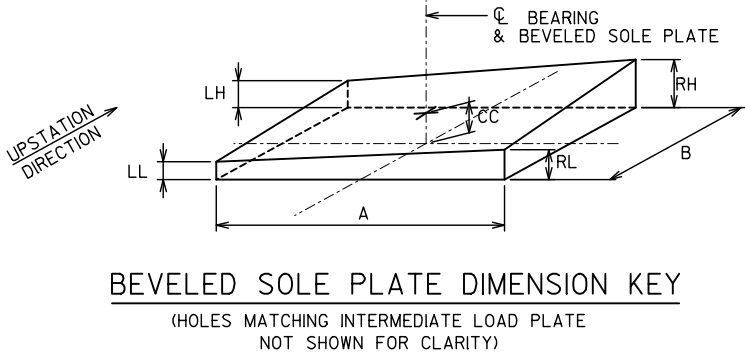
- BEARING LEGEND
- MULTIROTATIONAL FIXED
 - ◄●► MULTIROTATIONAL UNIDIRECTIONAL (GUIDED)
ARROWHEADS DENOTE MOVEMENT DIRECTIONS.

BEARING MARK	BEARING TYPE	SERVICE I LIMIT STATE VERTICAL LOADS		SERVICE I LIMIT STATE HORIZ. LOADS		ROTATIONS		MOVEMENT RANGE (FOR 180 DEG.) LONGIT. (IN)	TAPERED SOLE PLATE THICKNESS					NOMINAL BEARING DIMENSIONS						MIN. ANCHOR BOLTS	MIN. TOP BOLTS
		DEAD LOAD (KIPS)	TOTAL LOAD (KIPS)	TRAN. LOAD (KIPS)	LONGIT. LOAD (KIPS)	X-AXIS TORSION (RAD)	Y-AXIS FLEXURE (RAD)		LL (IN)	RL (IN)	LH (IN)	RH (IN)	CC (IN)	A (IN)	B (IN)	C (IN)	D (IN)	E (IN)	H (IN)		
P4A E	GUIDED	348	612	49	34	0.0058	0.0037	8.06	1.00	2.98	1.43	3.41	2.20	33	22.5	29.5	17.5	1.75	7.5	4-1" DIA.	4-1" DIA.
P4B E	GUIDED	348	612	49	34	0.0058	0.0037	8.06	1.00	2.98	1.43	3.41	2.20	33	22.5	29.5	17.5	1.75	7.5	4-1" DIA.	4-1" DIA.
P5A	GUIDED	1089	1604	64	40	0.0010	0.0026	5.27	1.00	3.46	1.53	3.99	2.49	41	32.75	38.625	26.625	1.75	9.5	4-1" DIA.	4-1" DIA.
P5B	GUIDED	1089	1604	64	40	0.0010	0.0026	5.27	1.00	3.46	1.53	3.99	2.49	41	32.75	38.625	26.625	1.75	9.5	4-1" DIA.	4-1" DIA.
P6A	FIXED	1055	1586	66	233	0.0005	0.0024		1.00	3.40	1.14	3.54	2.27	40	32	44	32	1.75	12.375	4-1 1/2" DIA.	8-1" DIA.
P6B	FIXED	1055	1586	66	233	0.0005	0.0024		1.00	3.40	1.14	3.54	2.27	40	32	44	32	1.75	12.375	4-1 1/2" DIA.	8-1" DIA.
P7A	FIXED	1075	1609	66	237	0.0002	0.0024		1.23	3.63	1.00	3.40	2.32	40	32	44	32	1.75	12.375	4-1 1/2" DIA.	8-1" DIA.
P7B	FIXED	1075	1609	66	237	0.0002	0.0024		1.23	3.63	1.00	3.40	2.32	40	32	44	32	1.75	12.375	4-1 1/2" DIA.	8-1" DIA.

NOTES:
SEE BEARING LAYOUT UNIT 1 SHEET FOR TYPICAL NOTES.

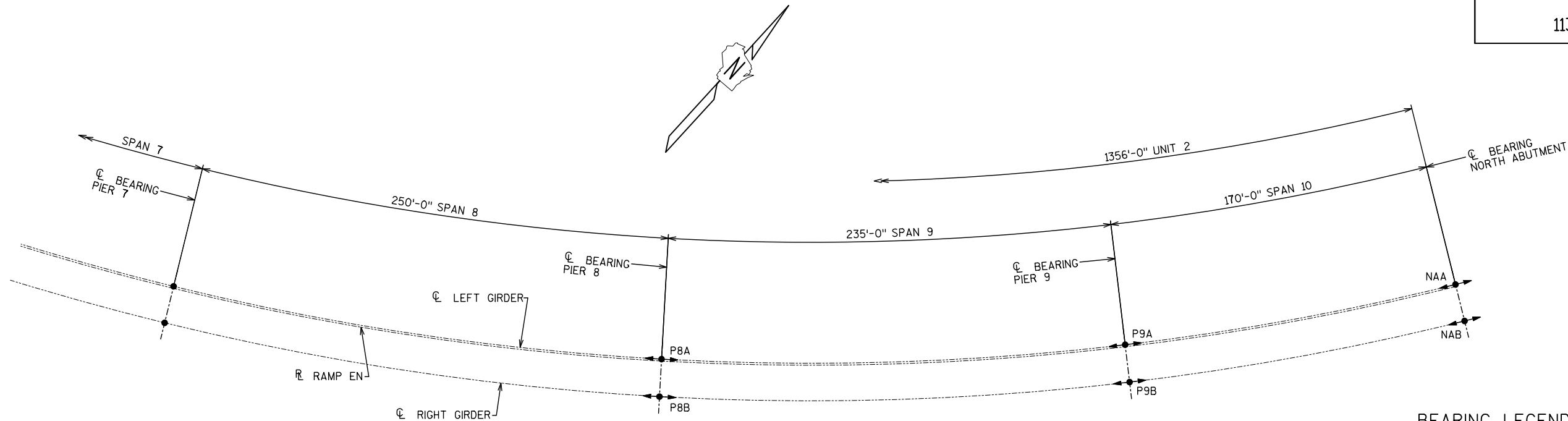


BEARING DIMENSION KEY



BEVELED SOLE PLATE DIMENSION KEY
(HOLES MATCHING INTERMEDIATE LOAD PLATE NOT SHOWN FOR CLARITY)

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY ZMG		PLANS CK'D. MAD	
BEARING LAYOUT UNIT 2 - SHEET 1			SHEET 9 OF 50



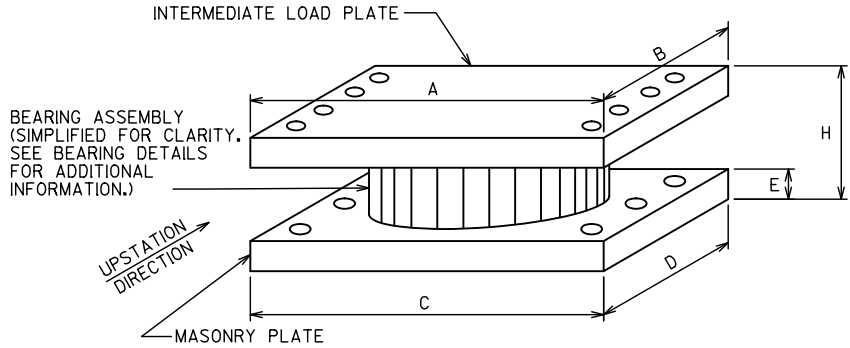
BEARING LAYOUT
GIRDER LENGTH NOT TO SCALE

BEARING LEGEND

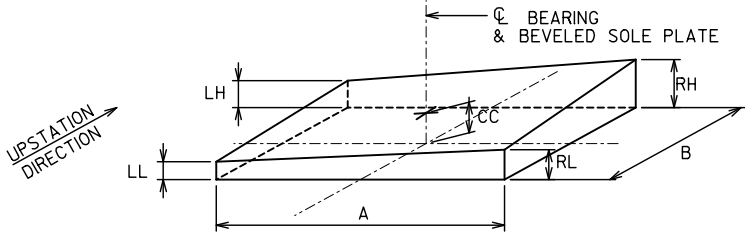
- MULTIROTATIONAL FIXED
- ◄●► MULTIROTATIONAL UNIDIRECTIONAL (GUIDED)
ARROWHEADS DENOTE MOVEMENT DIRECTIONS.

NOTES:
SEE BEARING LAYOUT UNIT 1 SHEET
FOR TYPICAL NOTES.

BEARING MARK	BEARING TYPE	SERVICE I LIMIT STATE VERTICAL LOADS		SERVICE I LIMIT STATE HORIZ. LOADS		ROTATIONS		MOVEMENT RANGE (FOR 180 DEG.) LONGIT. (IN)	TAPERED SOLE PLATE THICKNESS					NOMINAL BEARING DIMENSIONS						MIN. ANCHOR BOLTS	MIN. TOP BOLTS
		DEAD LOAD (KIPS)	TOTAL LOAD (KIPS)	TRAN. LOAD (KIPS)	LONGIT. LOAD (KIPS)	X-AXIS TORSION (RAD)	Y-AXIS FLEXURE (RAD)		LL (IN)	RL (IN)	LH (IN)	RH (IN)	CC (IN)	A (IN)	B (IN)	C (IN)	D (IN)	E (IN)	H (IN)		
P8A	GUIDED	1044	1568	66	41	0.0005	0.0023	5.27	1.62	4.08	1.00	3.46	2.54	41	32.75	38.625	26.625	1.75	9.5	4-1" DIA.	4-1" DIA.
P8B	GUIDED	1044	1568	66	41	0.0005	0.0023	5.27	1.62	4.08	1.00	3.46	2.54	41	32.75	38.625	26.625	1.75	9.5	4-1" DIA.	4-1" DIA.
P9A	GUIDED	966	1459	61	39	0.0007	0.0017	8.56	1.96	4.37	1.00	3.42	2.69	40.25	32	37.875	25.875	1.75	9.5	4-1" DIA.	4-1" DIA.
P9B	GUIDED	966	1459	61	39	0.0007	0.0017	8.56	1.96	4.37	1.00	3.42	2.69	40.25	32	37.875	25.875	1.75	9.5	4-1" DIA.	4-1" DIA.
NAA	GUIDED	281	528	42	33	0.0019	0.0035	10.95	1.82	3.80	1.00	2.98	2.40	33	21.75	28.625	16.625	1.75	7.125	4-1" DIA.	4-1" DIA.
NAB	GUIDED	281	528	42	33	0.0019	0.0035	10.95	1.82	3.80	1.00	2.98	2.40	33	21.75	28.625	16.625	1.75	7.125	4-1" DIA.	4-1" DIA.

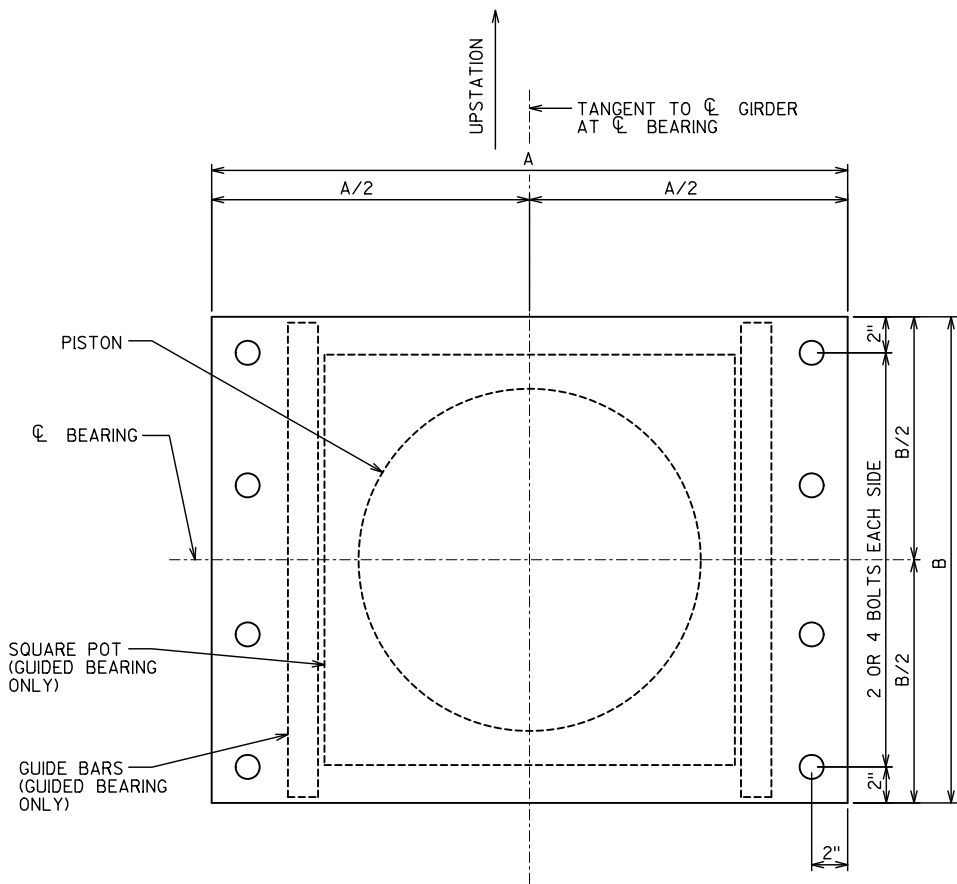
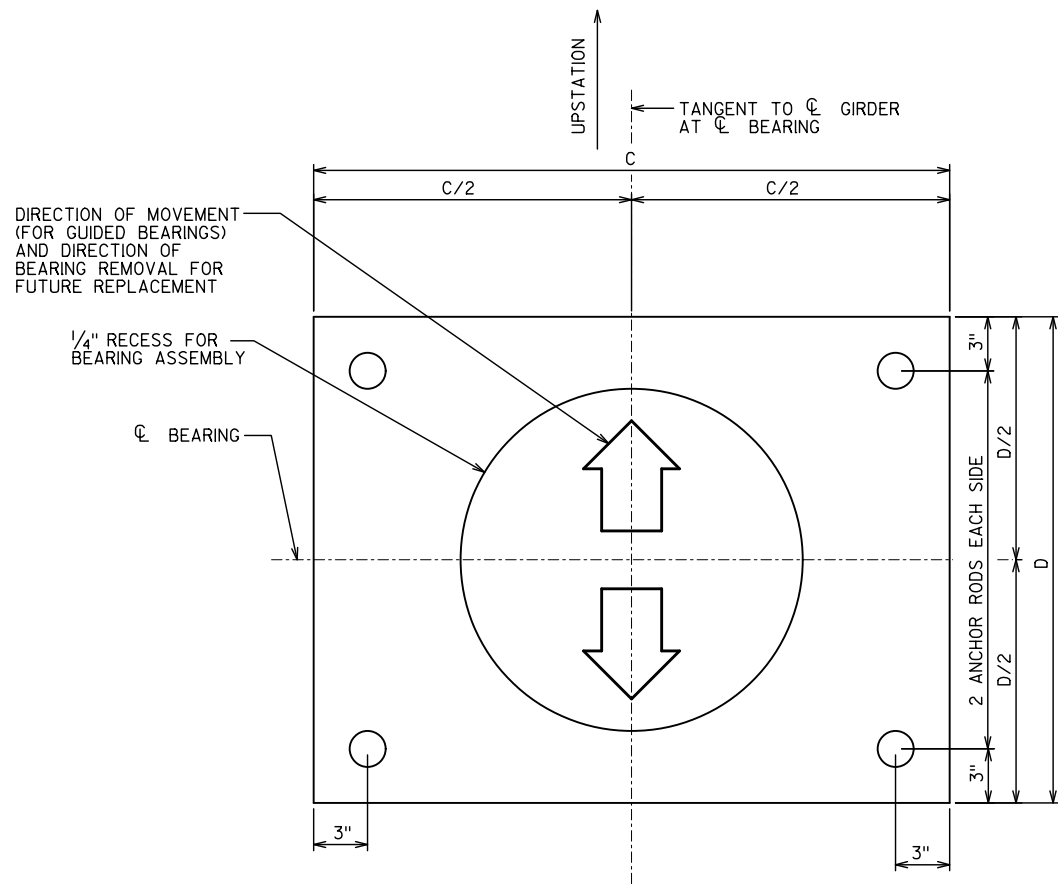
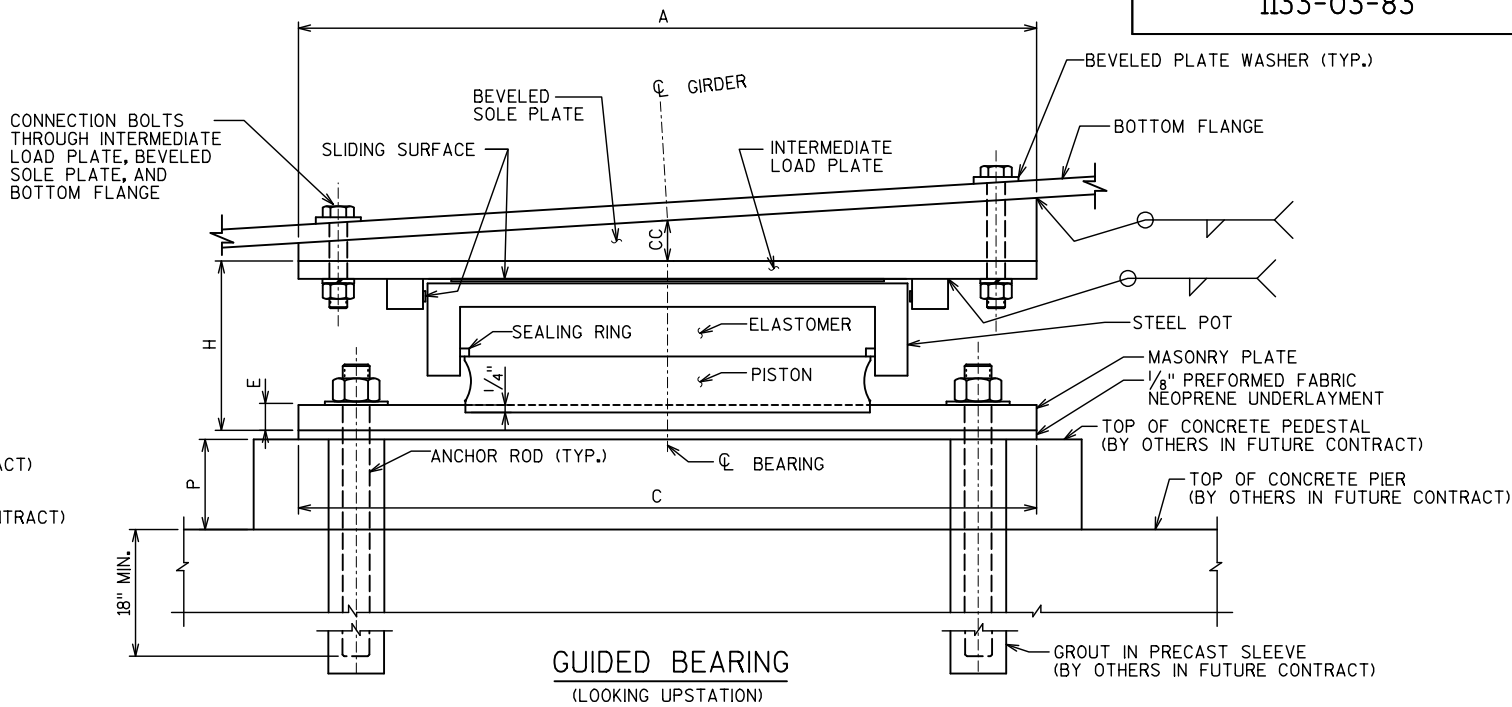
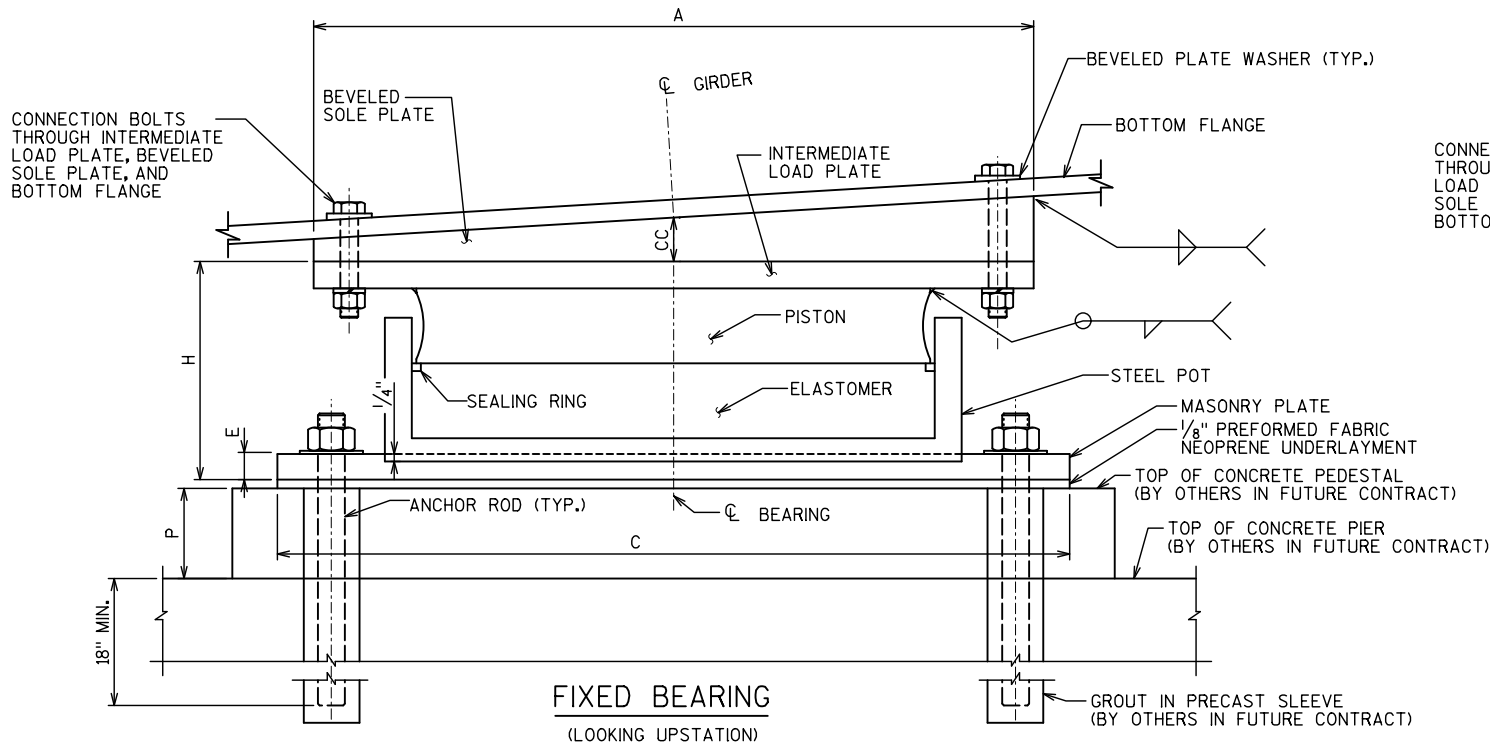


BEARING DIMENSION KEY



BEVELED SOLE PLATE DIMENSION KEY
(HOLES MATCHING INTERMEDIATE LOAD PLATE NOT SHOWN FOR CLARITY)

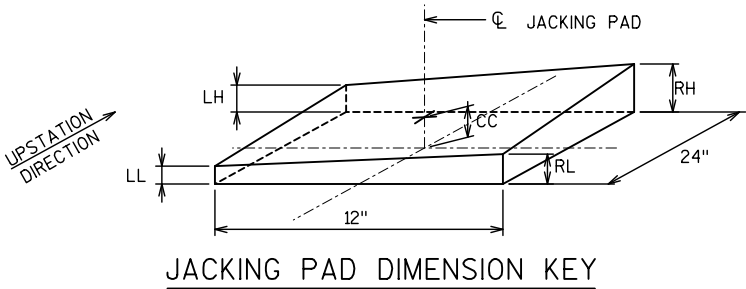
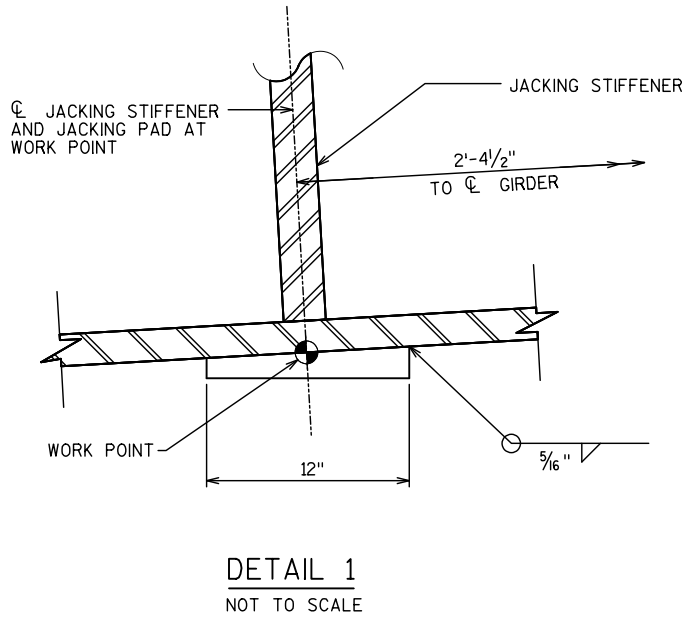
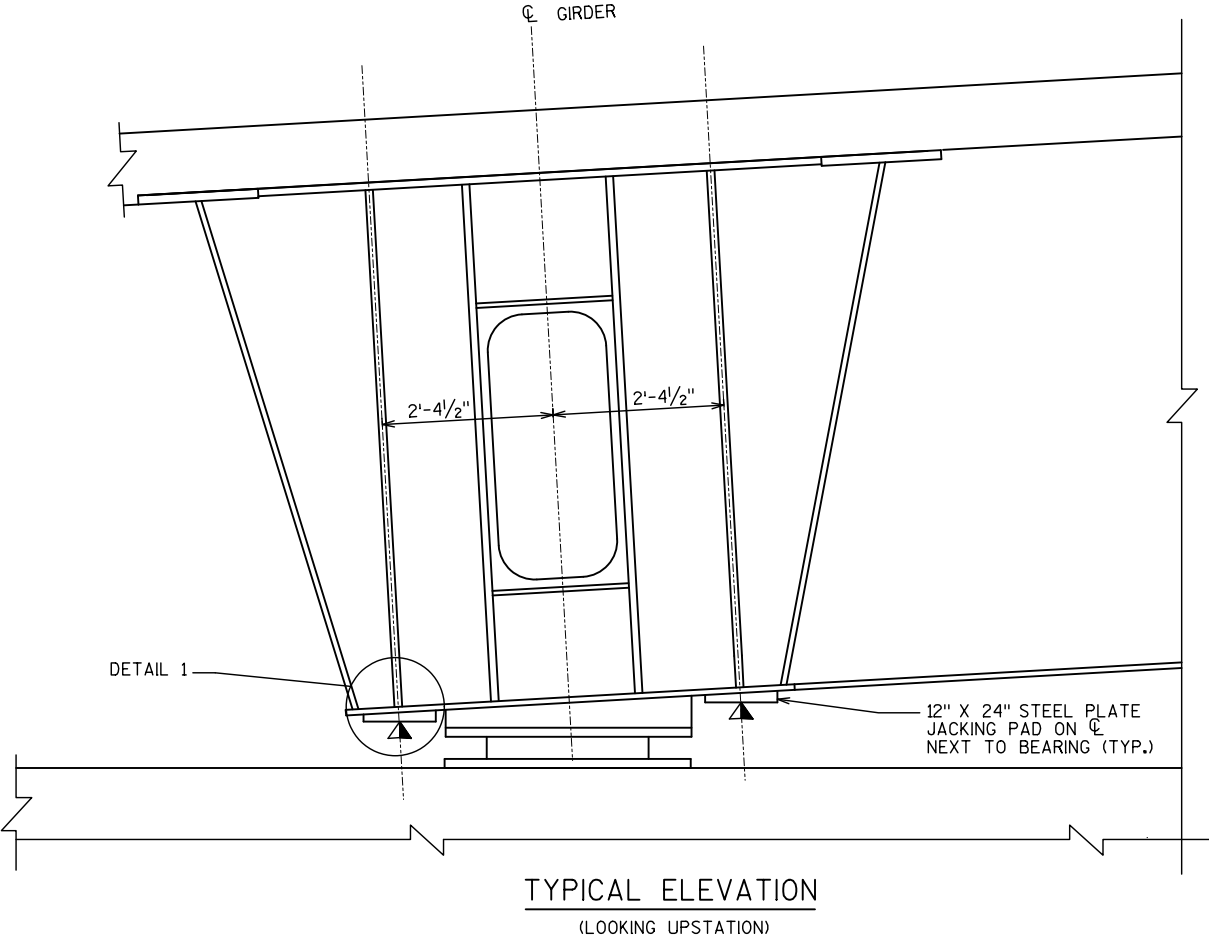
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY ZMG		PLANS CK'D. MAD	
BEARING LAYOUT UNIT 2 - SHEET 2			SHEET 10 OF 50



NOTES:

- SEE BEARING LAYOUT SHEETS FOR LOCATION-SPECIFIC DIMENSIONS.
- SEE JACKING PROVISIONS SHEET FOR LOCATION AND SIZE OF BEARING REPLACEMENT JACKING PADS ATTACHED TO BOTTOM OF GIRDER FLANGE.
- DESIGN BOLTED CONNECTION BETWEEN BEVELED SOLE PLATE AND INTERMEDIATE LOAD PLATE FOR THE COMBINED SPECIFIED HORIZONTAL LOADS SHOWN ON THE BEARING LAYOUT SHEETS PER AASHTO LRFD AND THE WISDOT BRIDGE MANUAL. FOR FUTURE BEARING REPLACEMENT, ARRANGE THE CONNECTION TO ENSURE ALL BOLTS CAN BE REMOVED WITHOUT INTERFERENCE FROM ANCHOR BOLTS OR OTHER OBSTRUCTIONS AFTER BEARING IS INSTALLED.
- HOLES IN TOP PLATE MAY BE SLOTTED OR OVERSIZED AS REQUIRED TO FACILITATE STEEL ERECTION. IF OVERSIZED OR SLOTTED HOLES ARE USED, DESIGN CONNECTION AS SLIP-RESISTANT PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
- HOLES IN MASONRY PLATE SHALL BE A MAXIMUM OF 1/8" LARGER THAN THE SPECIFIED ANCHOR BOLT DIAMETER.
- BEVELED SOLE PLATE, INTERMEDIATE LOAD PLATE AND MASONRY PLATES ARE ALIGNED WITH THE GIRDER AND THE SUBSTRUCTURE BELOW.
- BEVELED SOLE PLATE AND INTERMEDIATE LOAD PLATE THICKNESSES TO BE SELECTED BY THE BEARING DESIGNER. MINIMUM 1".
- MASONRY PLATE THICKNESS TO BE CONFIRMED BY THE BEARING DESIGNER AND INCREASED IF REQUIRED, BUT NOT DECREASED FROM 1.75".
- PROVIDE ANCHOR BOLTS IN ACCORDANCE WITH ASTM F1554 (GRADE 105) AND HOT-DIP GALVANIZED IN ACCORDANCE WITH AASHTO M232.
- DESIGN BEARINGS TO PERMIT REPLACEMENT BY JACKING THE BRIDGE A MAXIMUM OF 1/2".
- FINAL DISTANCE BETWEEN BOTTOM OF STEEL GIRDER AND TOP OF PIER IS THE SUMMATION OF "CC", THE ACTUAL "H" OF THE BEARING, 1/8" UNDERLAYMENT AND THE ACTUAL PEDESTAL HEIGHT "P". HEIGHT "P" IS ASSUMED TO BE 10" FOR ALL LOCATIONS.
- ALL ELEMENTS SHOWN ARE PROVIDED BY THE BEARING MANUFACTURER (UNLESS OTHERWISE NOTED) AND COORDINATED WITH THE STEEL FABRICATOR.
- THE CONTRACTOR IS RESPONSIBLE DURING STORAGE AND FUTURE ERECTION OF THE BEARING TO PREVENT OVER-ROTATION OR SLIDING OF THE BEARING. CONSTRUCTION ROTATIONS MUST NOT EXCEED THE ALLOWABLE ROTATIONS SHOWN.
- DO NOT DISASSEMBLE ANY BEARING WITHOUT THE PRESENCE OF THE TECHNICAL REPRESENTATIVE OF THE BEARING MANUFACTURER.
- A TECHNICAL REPRESENTATIVE FROM THE BEARING MANUFACTURER MUST BE PRESENT DURING INSTALLATION OF THE BEARINGS IN A FUTURE ERECTION AND CONSTRUCTION CONTRACT BY OTHERS.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY ZMG		PLANS CK'D. MAD	
BEARING DETAILS			SHEET 11 OF 50



LOCATION	NUMBER OF PADS PER BOX	LEFT BOX JACKING PAD DIMENSIONS					RIGHT BOX JACKING PAD DIMENSIONS					MIN. JACK FORCE (KIP)
		LL (IN)	RL (IN)	LH (IN)	RH (IN)	CC (IN)	LL (IN)	RL (IN)	LH (IN)	RH (IN)	CC (IN)	
W. ABUT	2	1	1.56	1.17	1.73	1.37	1	1.56	1.31	1.73	1.40	280
PIER 1	2	1	1.72	1.28	2.00	1.50	1	1.72	1.28	2.00	1.50	690
PIER 2	2	1	1.72	1.41	2.13	1.57	1	1.72	1.41	2.13	1.57	690
PIER 3	2	1	1.72	1.46	2.18	1.59	1	1.72	1.46	2.18	1.59	690
PIER 4W	2	1	1.72	1.46	2.18	1.59	1	1.72	1.46	2.18	1.59	270
PIER 4E	2	1	1.72	1.46	2.18	1.59	1	1.72	1.46	2.18	1.59	310
PIER 5	2	1	1.72	1.39	2.11	1.55	1	1.72	1.39	2.11	1.55	810
PIER 6	2	1	1.72	1.11	1.83	1.41	1	1.72	1.11	1.83	1.41	800
PIER 7	2	1.17	1.89	1	1.72	1.45	1.17	1.89	1	1.72	1.45	810
PIER 8	2	1.45	2.17	1	1.72	1.59	1.45	2.17	1	1.72	1.59	790
PIER 9	2	1.72	2.44	1	1.72	1.72	1.72	2.44	1	1.72	1.72	730
N. ABUT	2	1.91	2.63	1	1.72	1.81	1.91	2.63	1	1.72	1.81	270

LEGEND:

▲ SUGGESTED JACKING LOCATIONS FOR FUTURE BEARING REPLACEMENT.

NOTES:

THIS DRAWING SHOWS DETAILS AND LOCATION OF JACKING PADS AND ADDITIONAL JACKING STIFFENERS REQUIRED FOR FUTURE BEARING REPLACEMENT.

JACKING PAD DIMENSIONS AND LOCATIONS ARE BASED ON THE MINIMUM CLEARANCES SHOWN AND THE NOMINAL BEARING DIMENSIONS GIVEN ON BEARING LAYOUT SHEETS. MAKE ADJUSTMENTS AS REQUIRED TO ACCOMMODATE ACTUAL BEARINGS SUPPLIED.

JACKING PADS ARE PROVIDED TO GIVE A JACKING SURFACE THAT IS APPROXIMATELY LEVEL AND TO ENSURE THAT JACKING LOADS ARE APPLIED TO THE CORRECT LOCATION.

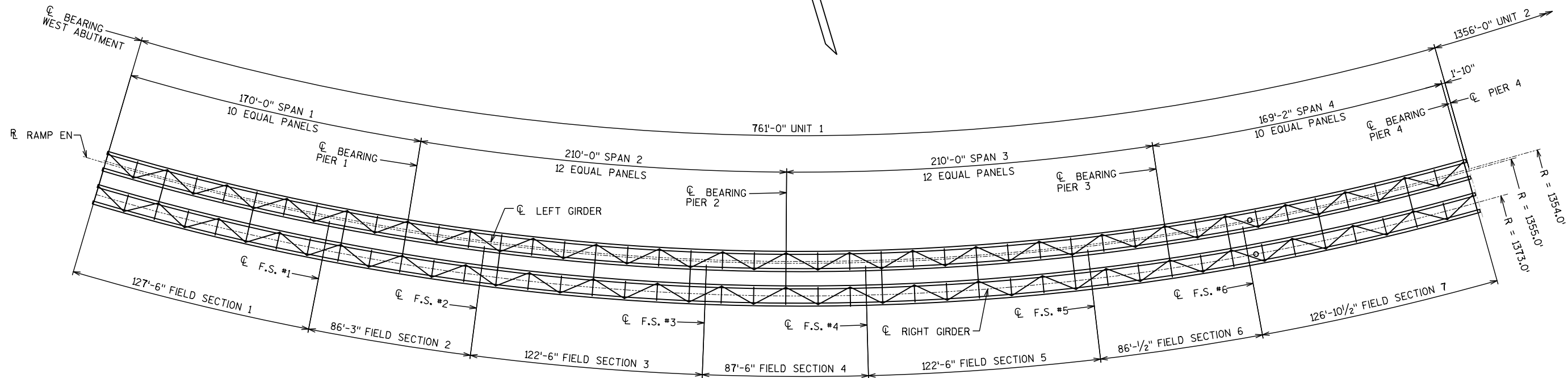
ADDITIONAL MEASURES SHALL BE TAKEN TO CORRECT FOR ANY UNINTENDED SLOPE AND TO ENSURE THAT JACKS ARE POSITIVELY HELD IN POSITION ON THE JACKING PADS.

ESTIMATED JACKING FORCES ARE GIVEN AT EACH PAD AND ARE BASED ON DEAD LOAD AND LIVE LOAD REACTIONS ONLY AND NO ADDITIONAL ALLOWANCES HAVE BEEN MADE. THESE FORCES MUST BE INCREASED TO ALLOW FOR JACK FRICTION AND OTHER FACTORS. RECOMMENDED MINIMUM JACK CAPACITY IS 2 TIMES THE TABULATED VALUES.

FORCES AND RECOMMENDATIONS ARE PROVIDED FOR INFORMATION ONLY AND MUST BE VERIFIED BY THE ENGINEER RESPONSIBLE FOR JACKING OPERATIONS.

CONTROL JACKS TO ENSURE THAT FORCES APPLIED TO ALL JACKING PADS AT A SINGLE BEARING LOCATION ARE APPROXIMATELY EQUAL. IF THIS REQUIREMENT IS NOT MET, A COMPLETE ANALYSIS OF THE PIER DIAPHRAGM SYSTEM WILL BE REQUIRED IN ORDER TO ACCOUNT FOR THE REDISTRIBUTION OF FORCES WITHIN THE SYSTEM.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
		DRAWN BY ZMG	PLANS CK'D. MAD
JACKING PROVISIONS		SHEET 12 OF 50	



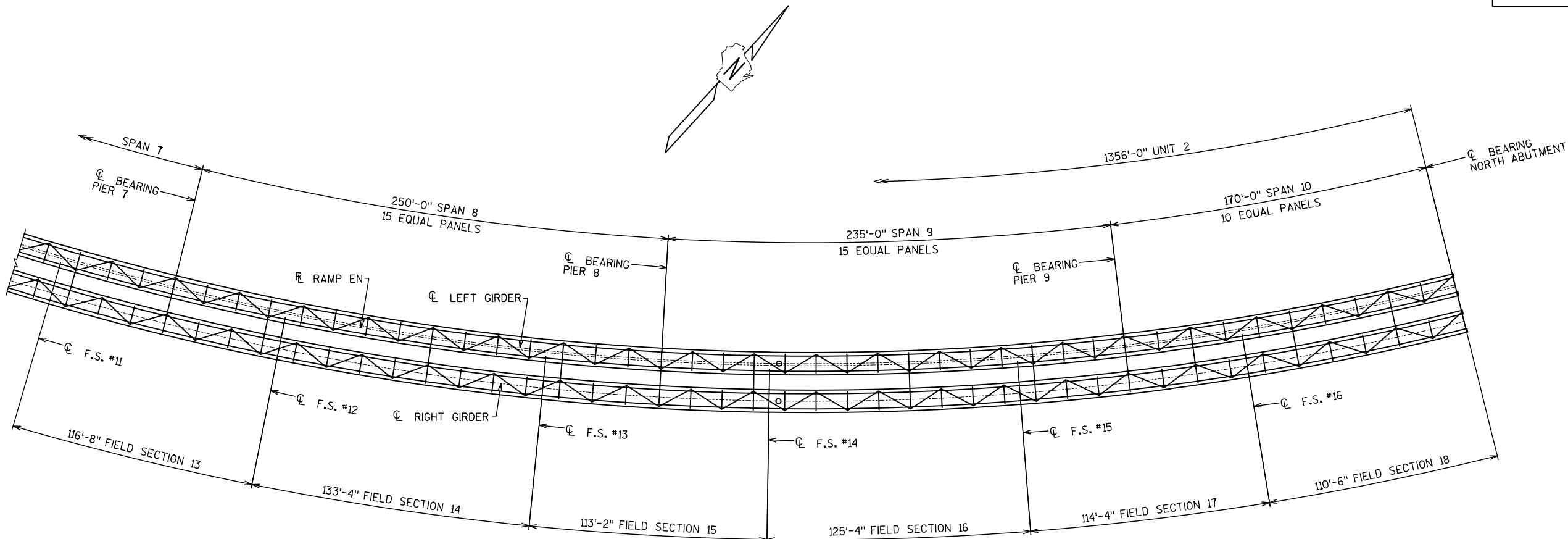
FRAMING PLAN - UNIT 1

LEGEND
F.S. = BOLTED FIELD SPLICE

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY JRS		PLANS CK'D. NPP	
FRAMING PLAN UNIT 1 SPANS 1 - 4			SHEET 13 OF 50



NO.	DATE	REVISION			BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION					
STRUCTURE B-5-658					
		DRAWN BY JRS		PLANS CK'D. NPP	
FRAMING PLAN UNIT 2 SPANS 5 - 7				SHEET 14 OF 50	



FRAMING PLAN - UNIT 2

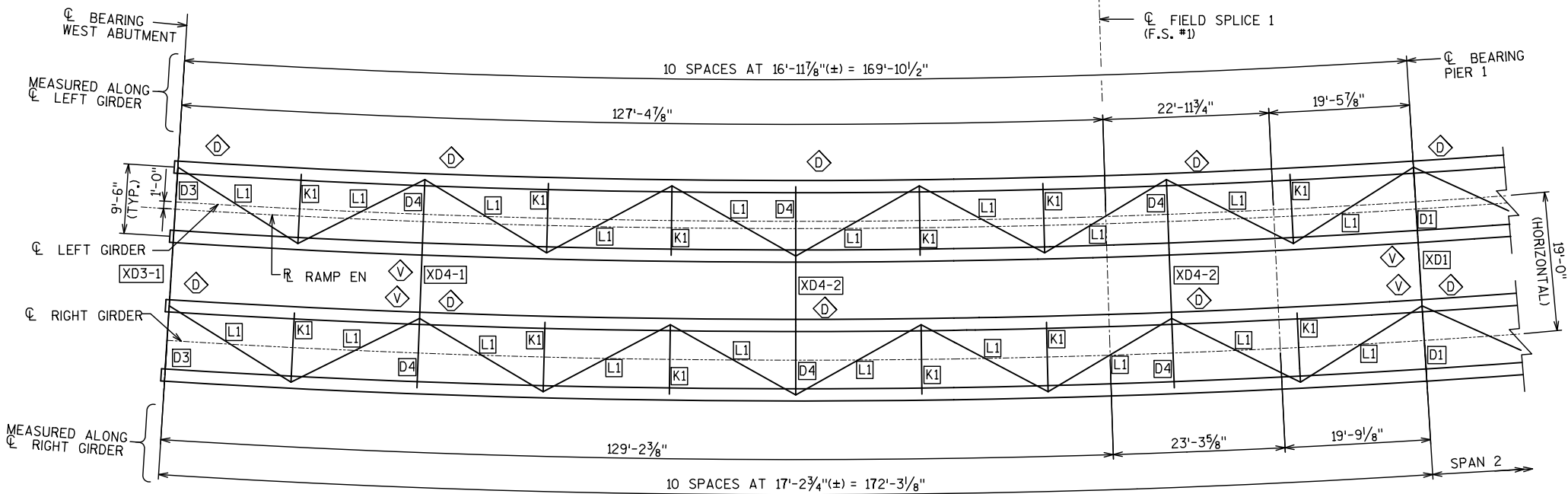
LEGEND

F.S.= BOLTED FIELD SPLICE

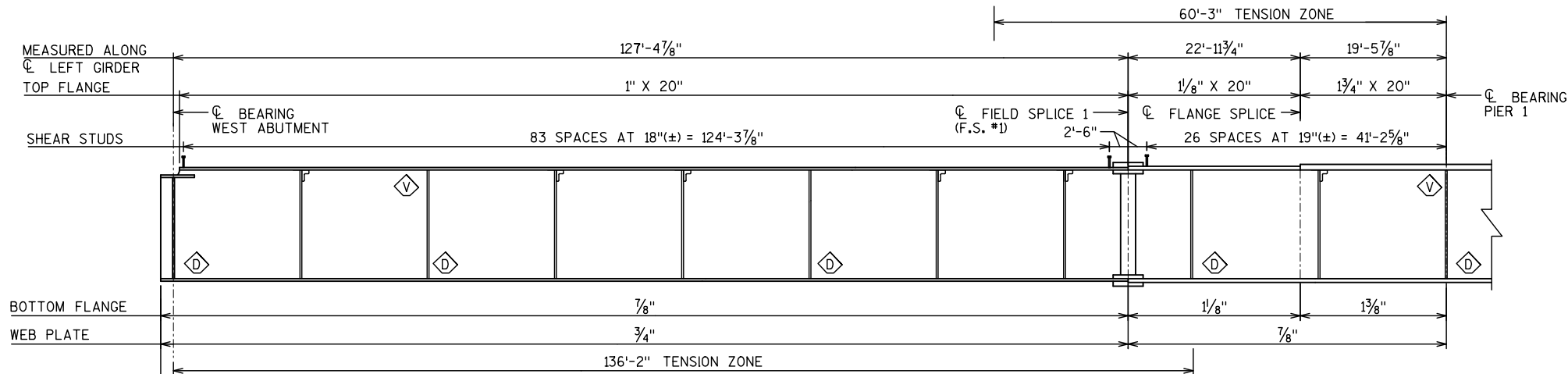
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
		DRAWN BY JRS	PLANS CK'D. NPP
FRAMING PLAN UNIT 2 SPANS 8 - 10		SHEET 15 OF 50	

LEGEND

- D1 INTERIOR DIAPHRAGM OVER PIER FOR CONTINUOUS SPAN
- D2 INTERIOR DIAPHRAGM OVER PIER AT UNIT BREAK
- D3 INTERIOR DIAPHRAGM AT ABUTMENT
- D4 INTERIOR INTERMEDIATE DIAPHRAGM
- XDA-B EXTERIOR DIAPHRAGM (WHERE 'A' INDICATES CORRESPONDING INTERIOR DIAPHRAGM NUMBER AND 'B' INDICATES SEQUENTIAL NUMBER WHICH VARIES DUE TO CHANGE IN CROSS SLOPE)
- K1 INTERIOR K FRAME
- L1 TOP FLANGE LATERAL BRACING MARK NUMBER
- XF EXTERIOR INTERMEDIATE CROSS FRAME
- V VENT HOLE LOCATION
- D DRAIN HOLE LOCATION

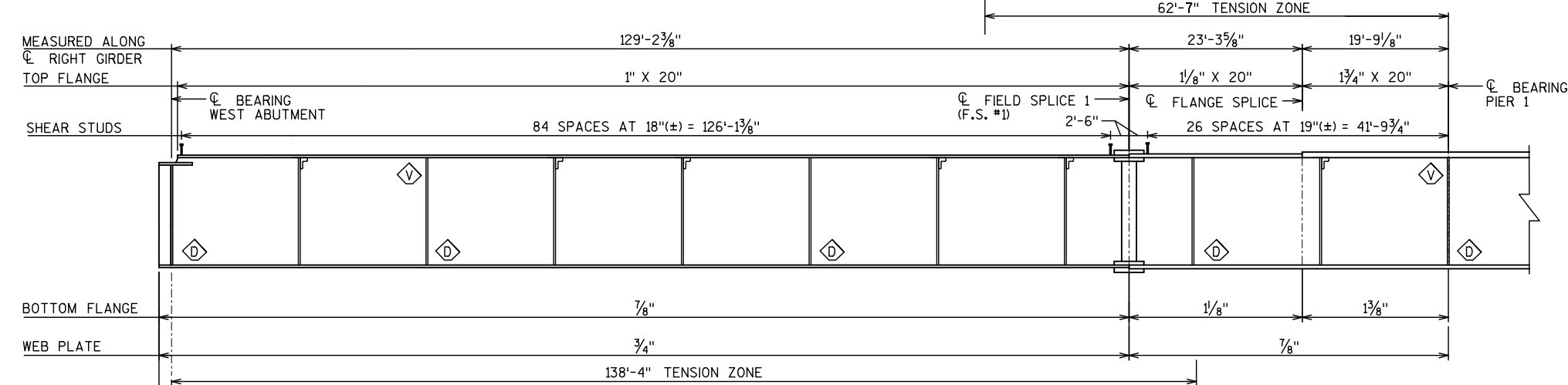


GIRDER PLAN - UNIT 1 SPAN 1



LEFT GIRDER ELEVATION - UNIT 1 SPAN 1

(NOT TO SCALE- VERTICAL SCALE EXAGGERATED FOR CLARITY)



RIGHT GIRDER ELEVATION - UNIT 1 SPAN 1

(NOT TO SCALE- VERTICAL SCALE EXAGGERATED FOR CLARITY)

NOTES:

SHEAR STUDS FURNISHED AND INSTALLED BY OTHERS DURING FUTURE ERECTION CONTRACT.

ALL LONGITUDINAL DIMENSIONS SHOWN ARE MEASURED HORIZONTALLY ALONG CENTERLINE OF EACH GIRDER. CONTRACTOR SHALL MAKE ADJUSTMENTS FOR CAMBER AND GRADE.

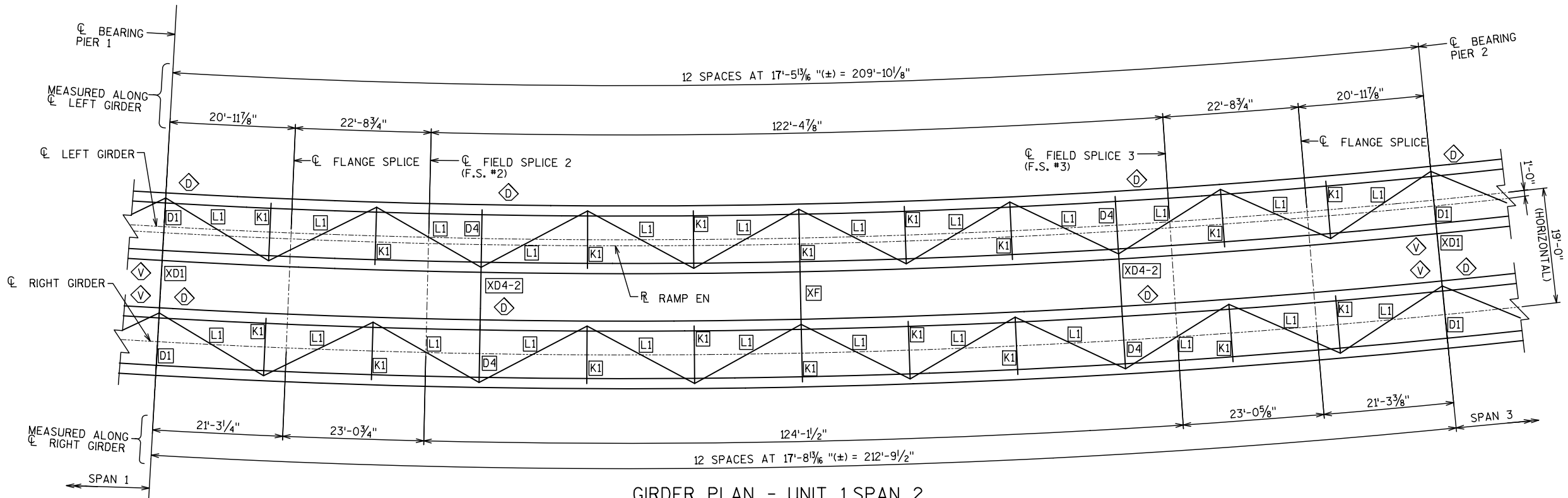
FOR SHOP WELDED BUTT SPLICES OF FLANGES, FABRICATOR MAY CHOOSE TO ELIMINATE SPLICE AND CONTINUE THICKER PLATE TO END OF SECTION AT FIELD SPLICE AT NO ADDITIONAL COST TO THE OWNER. ADJUST CAMBER IF PLATE SIZES ARE CHANGED.

TENSION ZONES SHOWN ABOVE THE GIRDER ELEVATION INDICATE TENSION ZONES FOR TOP FLANGE AND UPPER PORTION OF WEB.

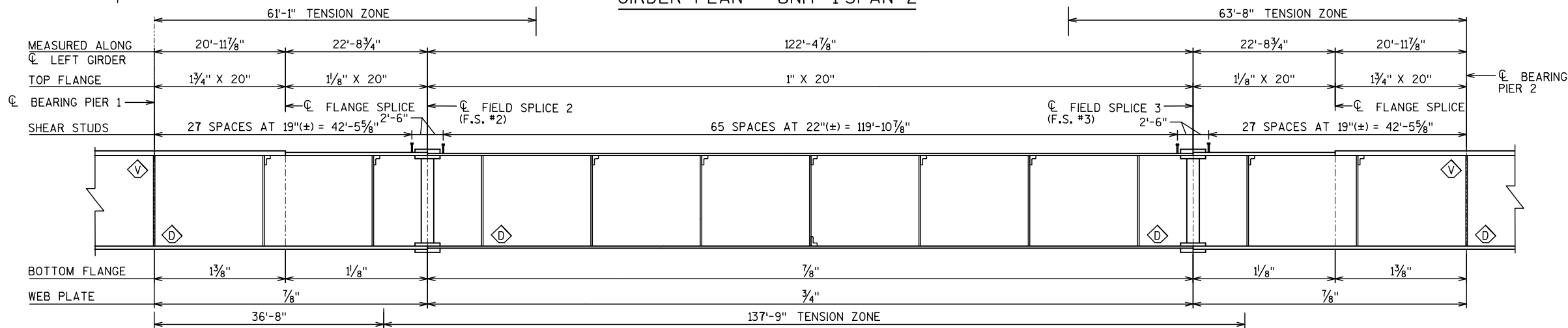
TENSION ZONES SHOWN BELOW THE GIRDER ELEVATION INDICATE TENSION ZONES FOR BOTTOM FLANGE AND LOWER PORTION OF WEB.

FOR OPTIONAL SHOP SPLICE DETAIL AS REQUIRED DUE TO MAXIMUM PLATE LENGTHS AVAILABLE FROM MILL, SEE MISCELLANEOUS GIRDER DETAILS SHEET.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY JRS		PLANS CK'D. NPP	
GIRDER PLAN & ELEVATION UNIT 1 - SPAN 1			SHEET 16 OF 50

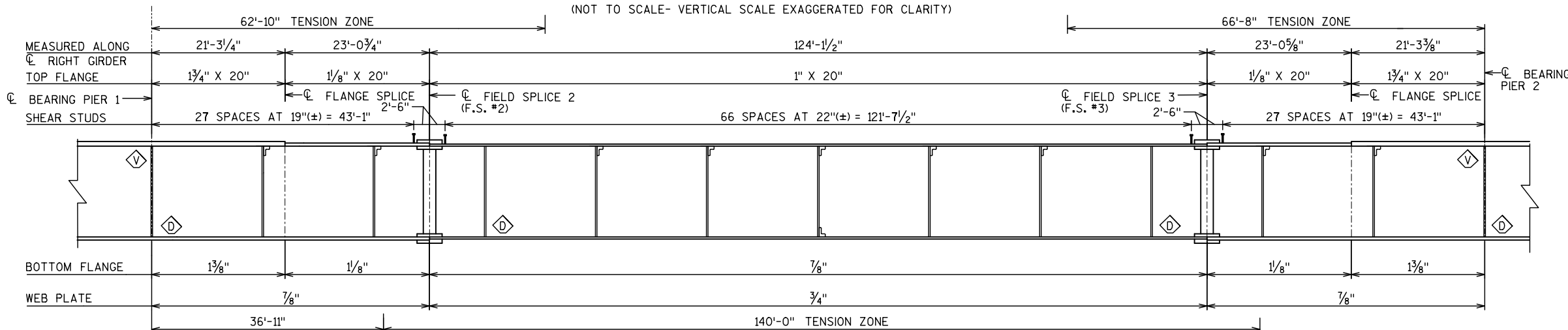


GIRDER PLAN - UNIT 1 SPAN 2



LEFT GIRDER ELEVATION - UNIT 1 SPAN 2

(NOT TO SCALE- VERTICAL SCALE EXAGGERATED FOR CLARITY)



RIGHT GIRDER ELEVATION - UNIT 1 SPAN 2

(NOT TO SCALE- VERTICAL SCALE EXAGGERATED FOR CLARITY)

NOTES:

FOR NOTES AND LEGEND SEE GIRDER
PLAN & ELEVATION UNIT 1- SPAN 1
SHEET

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY JRS		PLANS CK'D. NPP	
GIRDER PLAN & ELEVATION UNIT 1- SPAN 2			SHEET 17 OF 50

[illegible]

ELEVATION VIEW OF GIRDER

MEASURED ALONG CL RIGHT GIRDER TOP FLANGE

CL BEARING PIER 2

SHEAR STUDS

66'-5" TENSION ZONE

21'-3 $\frac{3}{8}$ "

23'-0 $\frac{5}{8}$ "

124'-1 $\frac{1}{2}$ "

62'-6" TENSION ZONE

23'-0 $\frac{5}{8}$ "

21'-3 $\frac{3}{8}$ "

CL BEARING PIER 3

1 $\frac{3}{4}$ " X 20"

1 $\frac{1}{8}$ " X 20"

1" X 20"

1 $\frac{1}{8}$ " X 20"

1 $\frac{3}{4}$ " X 20"

CL FIELD SPLICE 4 (F.S. #4)

CL FIELD SPLICE 5 (F.S. #5)

CL FLANGE SPLICE

27 SPACES AT 19"(±) = 43'-1"

66 SPACES AT 22"(±) = 121'-7 $\frac{1}{2}$ "

27 SPACES AT 19"(±) = 43'-1"

V

D

D

D

BOTTOM FLANGE

WEB PLATE

1 $\frac{3}{8}$ "

1 $\frac{1}{8}$ "

$\frac{7}{8}$ "

1 $\frac{1}{8}$ "

1 $\frac{3}{8}$ "

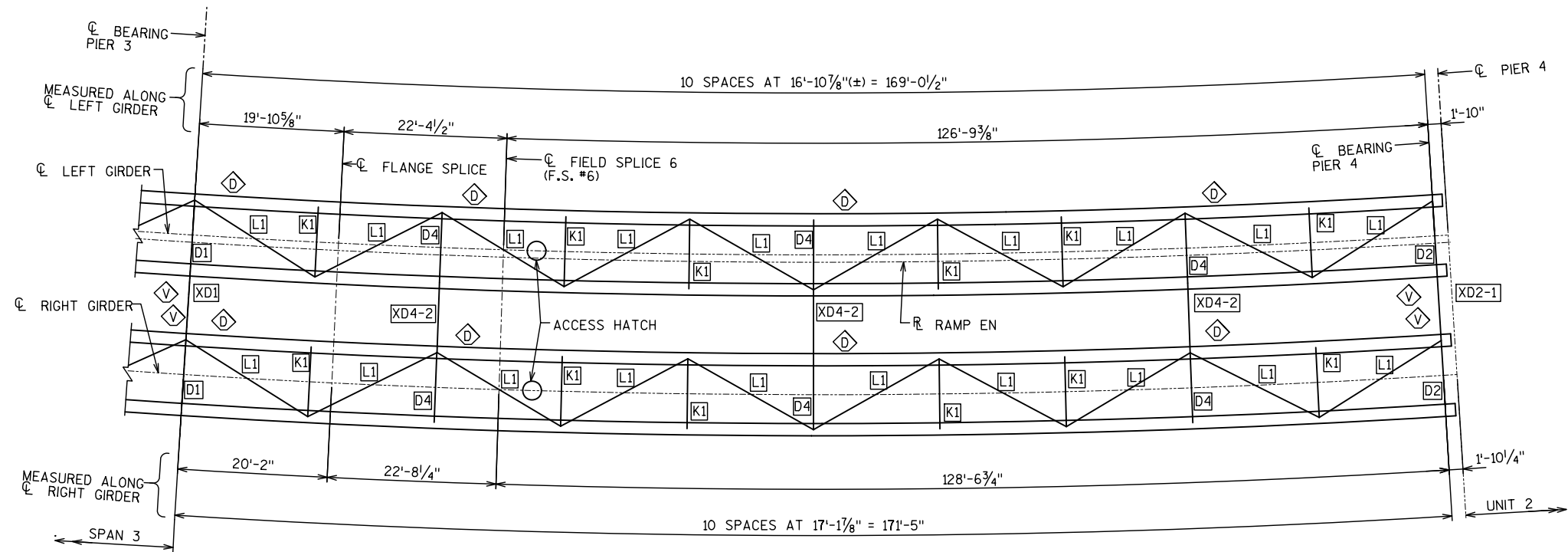
36'-0"

140'-0" TENSION

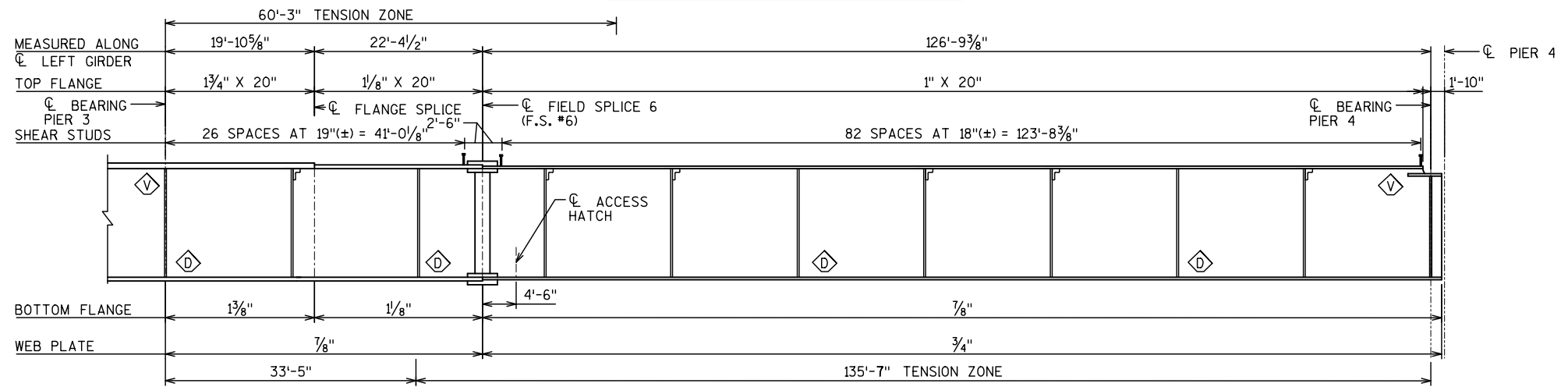
NO.	DATE

FOR NOTES AND LEGEND SEE GIRDER
PLAN & ELEVATION UNIT 1- SPAN 1
SHEET

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY		JRS	PLANS CK'D. NPP
GIRDER PLAN & ELEVATION UNIT 1 - SPAN 3		SHEET 18 OF 50	

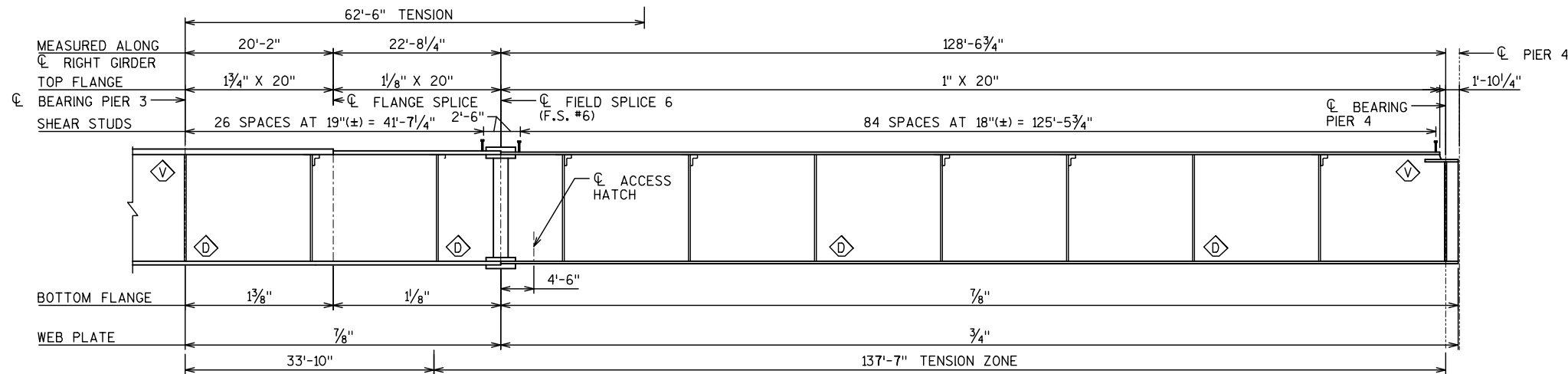


GIRDER PLAN - UNIT 1 SPAN 4



LEFT GIRDER ELEVATION - UNIT 1 SPAN 4

(NOT TO SCALE- VERTICAL SCALE EXAGGERATED FOR CLARITY)



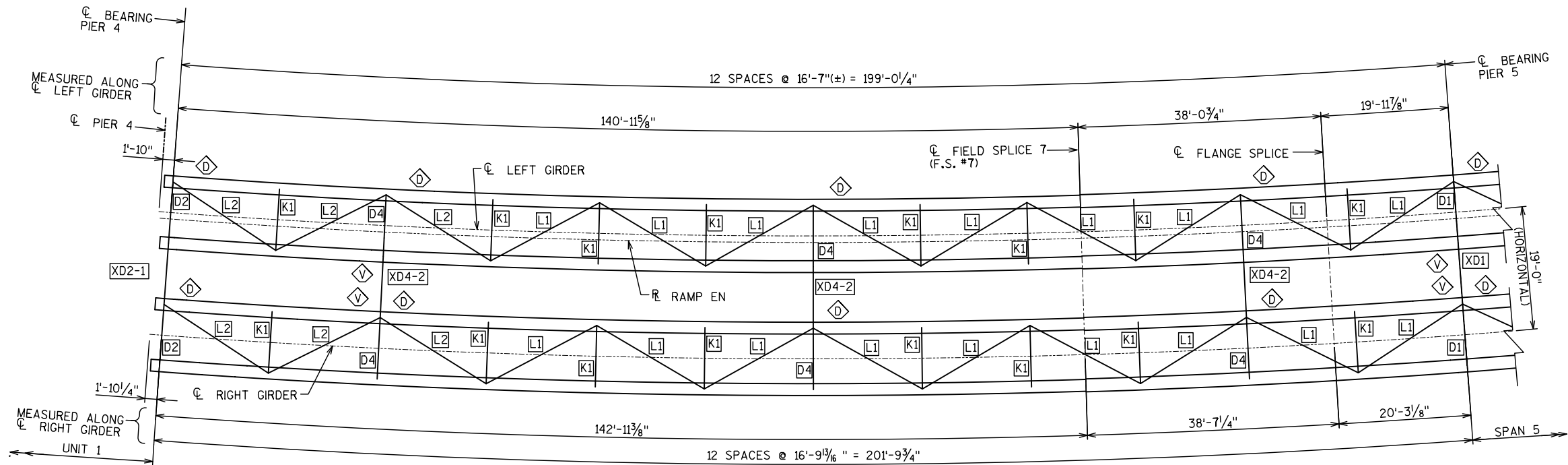
RIGHT GIRDER ELEVATION - UNIT 1 SPAN 4

(NOT TO SCALE- VERTICAL SCALE EXAGGERATED FOR CLARITY)

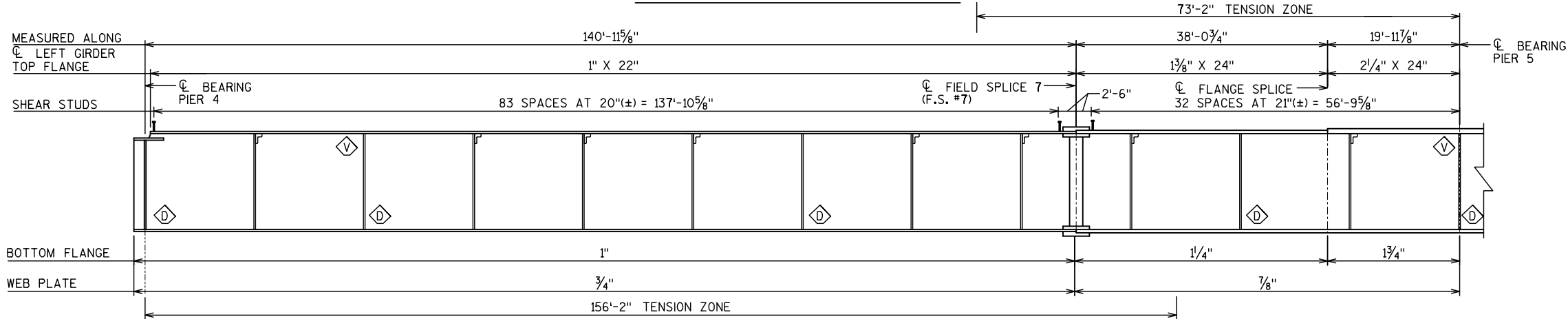
NOTES:

FOR NOTES AND LEGEND SEE GIRDER
PLAN & ELEVATION UNIT 1- SPAN 1
SHEET

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY JRS		PLANS CK'D. NPP	
GIRDER PLAN & ELEVATION UNIT 1 - SPAN 4			SHEET 19 OF 50

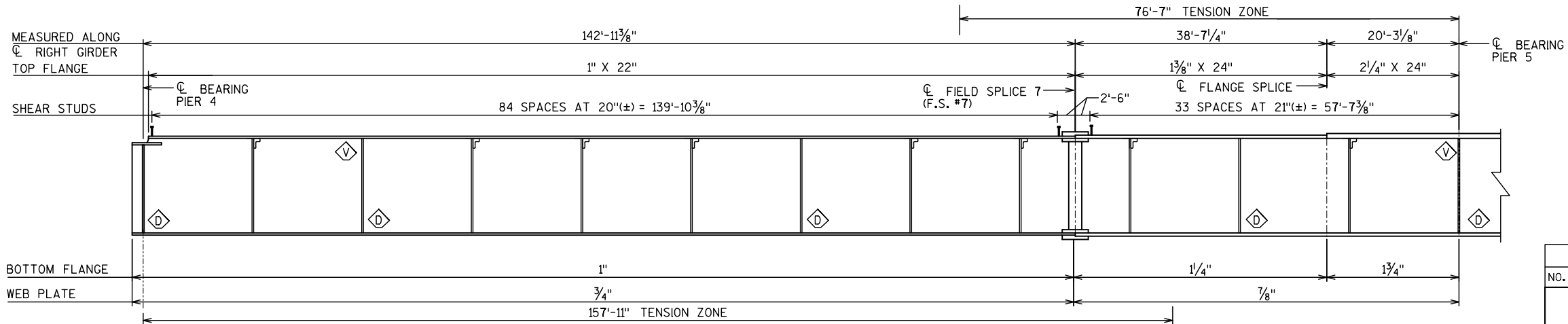


GIRDER PLAN - UNIT 2 SPAN 5



LEFT GIRDER ELEVATION - UNIT 2 SPAN 5

(NOT TO SCALE- VERTICAL SCALE EXAGGERATED FOR CLARITY)



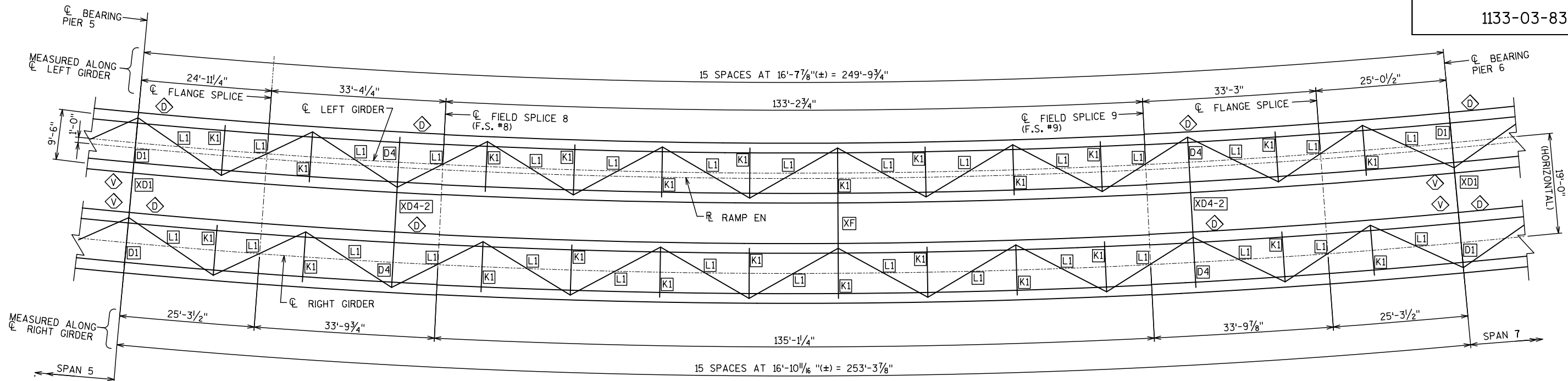
RIGHT GIRDER ELEVATION - UNIT 2 SPAN 5

(NOT TO SCALE- VERTICAL SCALE EXAGGERATED FOR CLARITY)

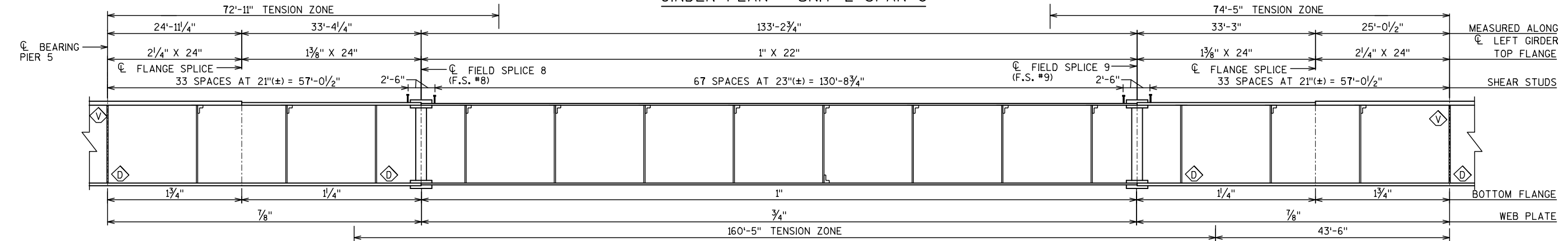
NOTES:

FOR NOTES AND LEGEND SEE GIRDER
PLAN & ELEVATION UNIT 1 - SPAN 1
SHEET

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY JRS		PLANS CK'D. NPP	
GIRDER PLAN & ELEVATION UNIT 2 - SPAN 5			SHEET 20 OF 50

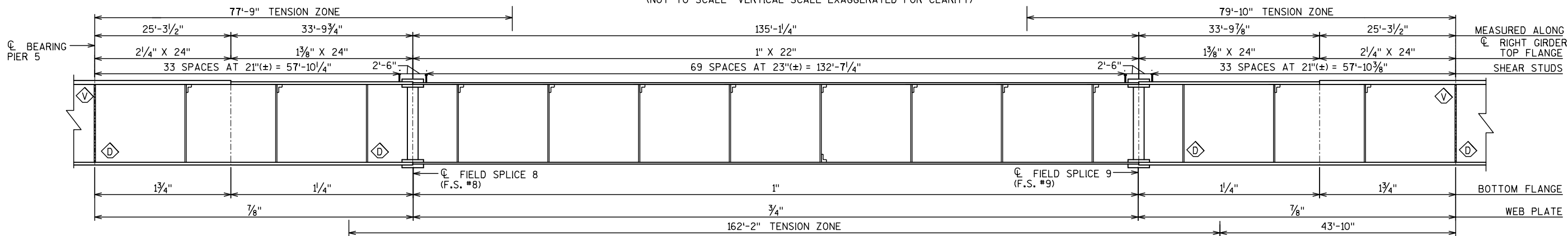


GIRDER PLAN - UNIT 2 SPAN 6



LEFT GIRDER ELEVATION - UNIT 2 SPAN 6

(NOT TO SCALE- VERTICAL SCALE EXAGGERATED FOR CLARITY)



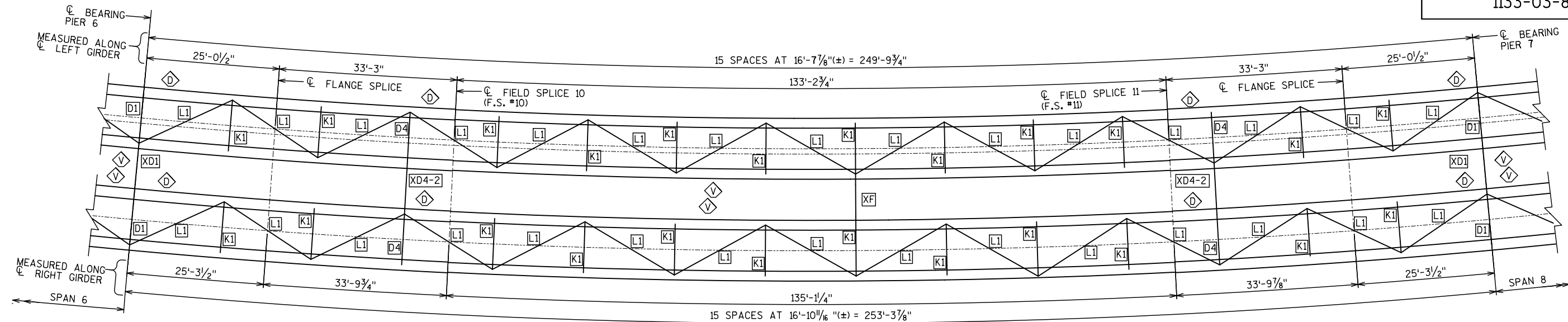
RIGHT GIRDER ELEVATION - UNIT 2 SPAN 6

(NOT TO SCALE- VERTICAL SCALE EXAGGERATED FOR CLARITY)

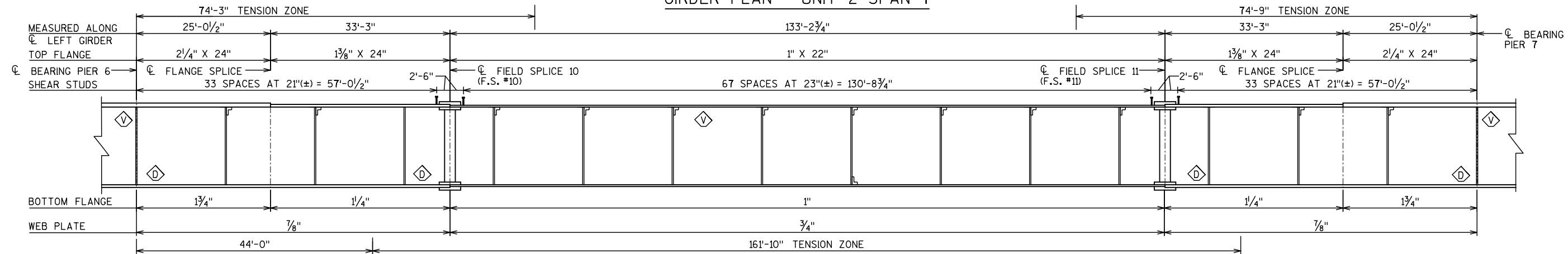
NOTES:

FOR NOTES AND LEGEND SEE GIRDER
PLAN & ELEVATION UNIT 1 - SPAN 1
SHEET

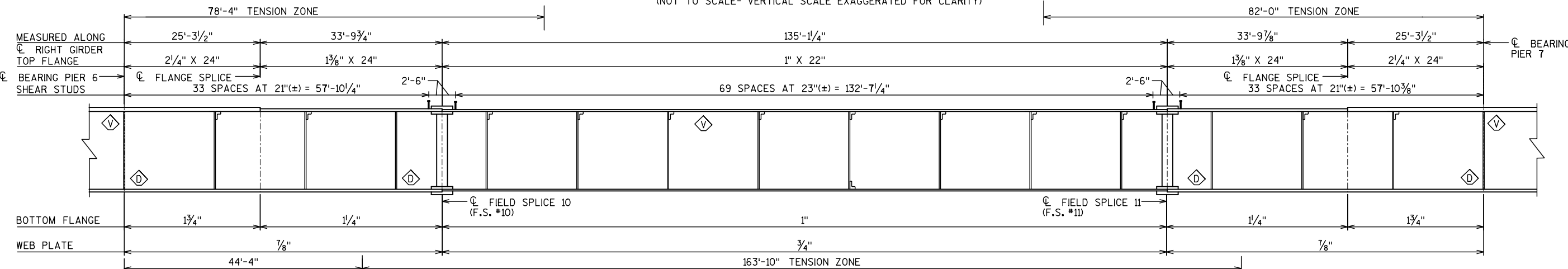
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY JRS		PLANS CK'D. NPP	
GIRDER PLAN & ELEVATION UNIT 2 - SPAN 6			SHEET 21 OF 50



GIRDER PLAN - UNIT 2 SPAN 7



LEFT GIRDER ELEVATION - UNIT 2 SPAN 7
(NOT TO SCALE- VERTICAL SCALE EXAGGERATED FOR CLARITY)

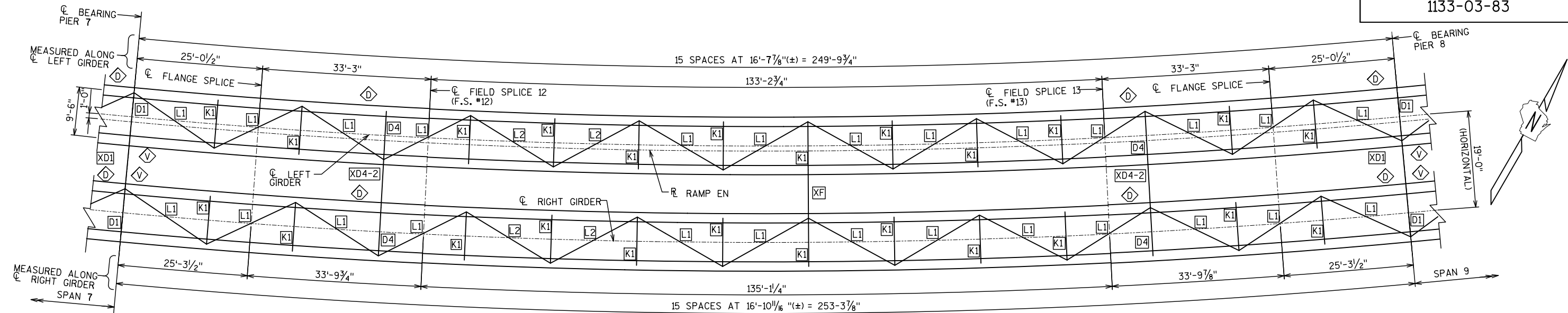


RIGHT GIRDER ELEVATION - UNIT 2 SPAN 7
(NOT TO SCALE- VERTICAL SCALE EXAGGERATED FOR CLARITY)

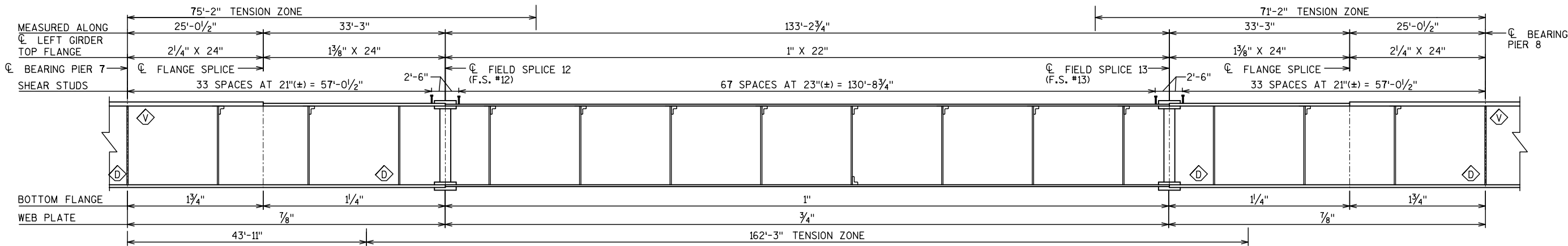
NOTES:

FOR NOTES AND LEGEND SEE GIRDER
PLAN & ELEVATION UNIT 1 - SPAN 1
SHEET

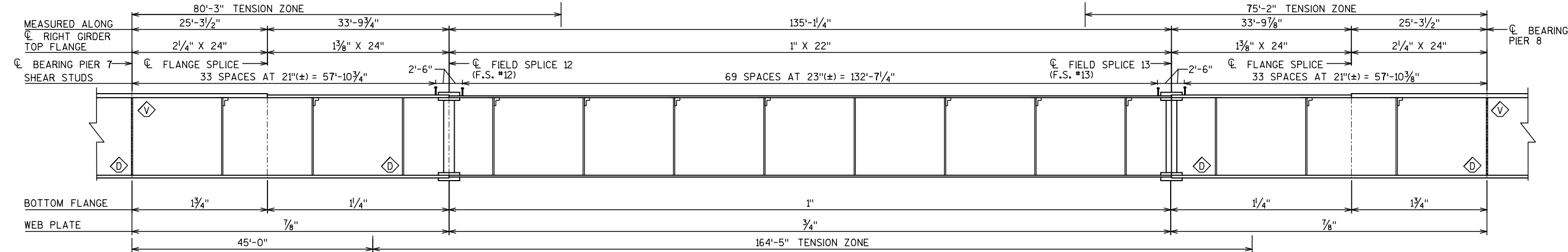
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY JRS		PLANS CK'D. NPP	
GIRDER PLAN & ELEVATION UNIT 2 - SPAN 7			SHEET 22 OF 50



GIRDER PLAN - UNIT 2 SPAN 8



LEFT GIRDER ELEVATION - UNIT 2 SPAN 8
(NOT TO SCALE- VERTICAL SCALE EXAGGERATED FOR CLARITY)

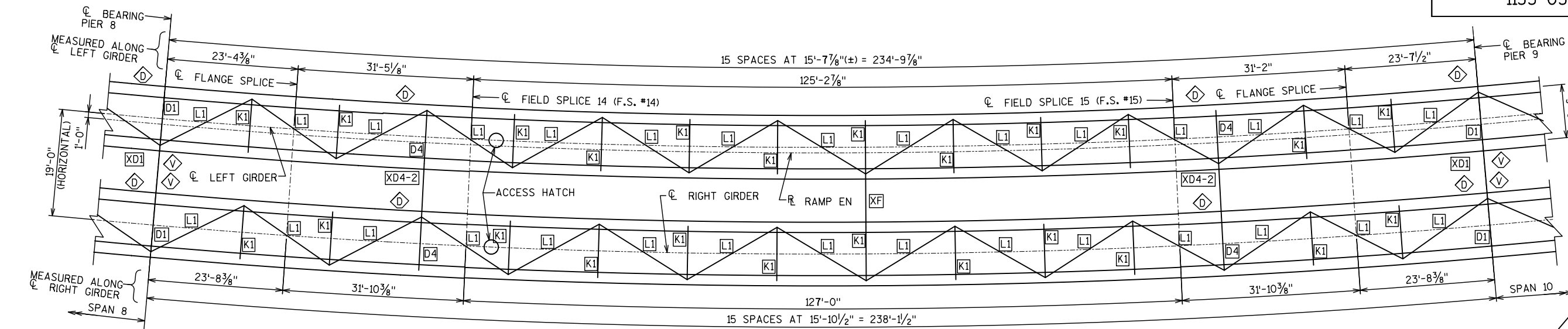


RIGHT GIRDER ELEVATION - UNIT 2 SPAN 8
(NOT TO SCALE- VERTICAL SCALE EXAGGERATED FOR CLARITY)

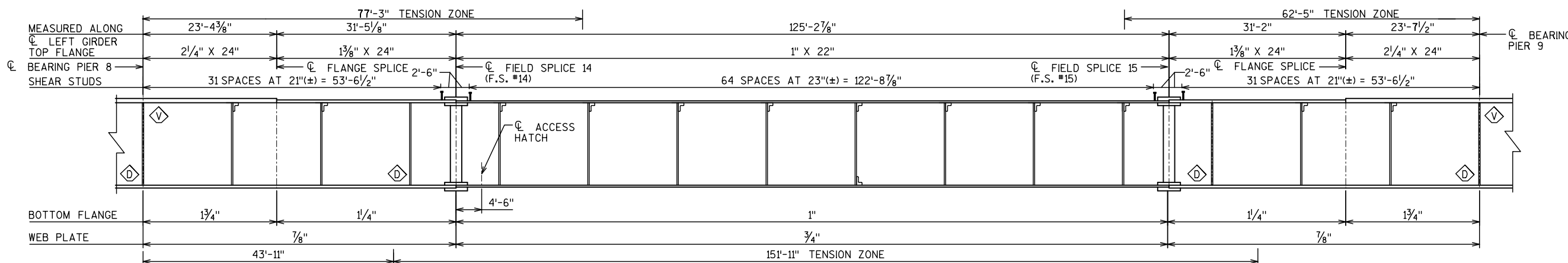
NOTES:

FOR NOTES AND LEGEND SEE GIRDER
PLAN & ELEVATION UNIT 1 - SPAN 1
SHEET

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY JRS		PLANS CK'D. NPP	
GIRDER PLAN & ELEVATION UNIT 2 - SPAN 8			SHEET 23 OF 50

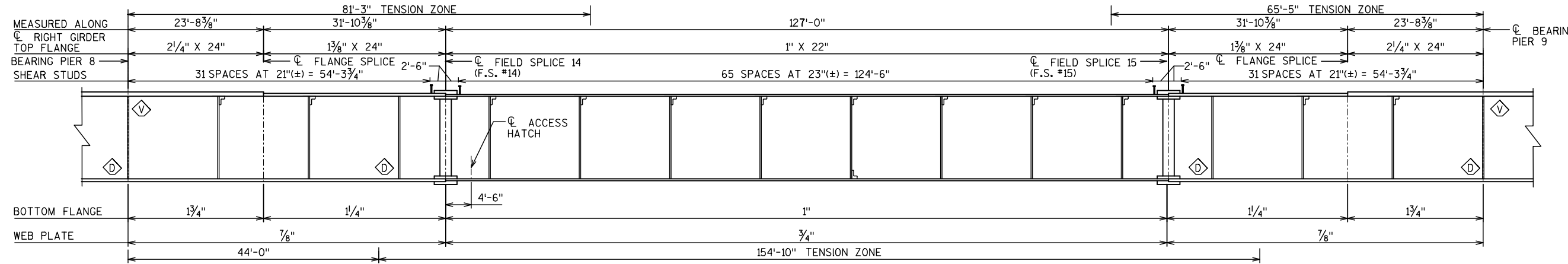


GIRDER PLAN - UNIT 2 SPAN 9



LEFT GIRDER ELEVATION - UNIT 2 SPAN 9

(NOT TO SCALE- VERTICAL SCALE EXAGGERATED FOR CLARITY)



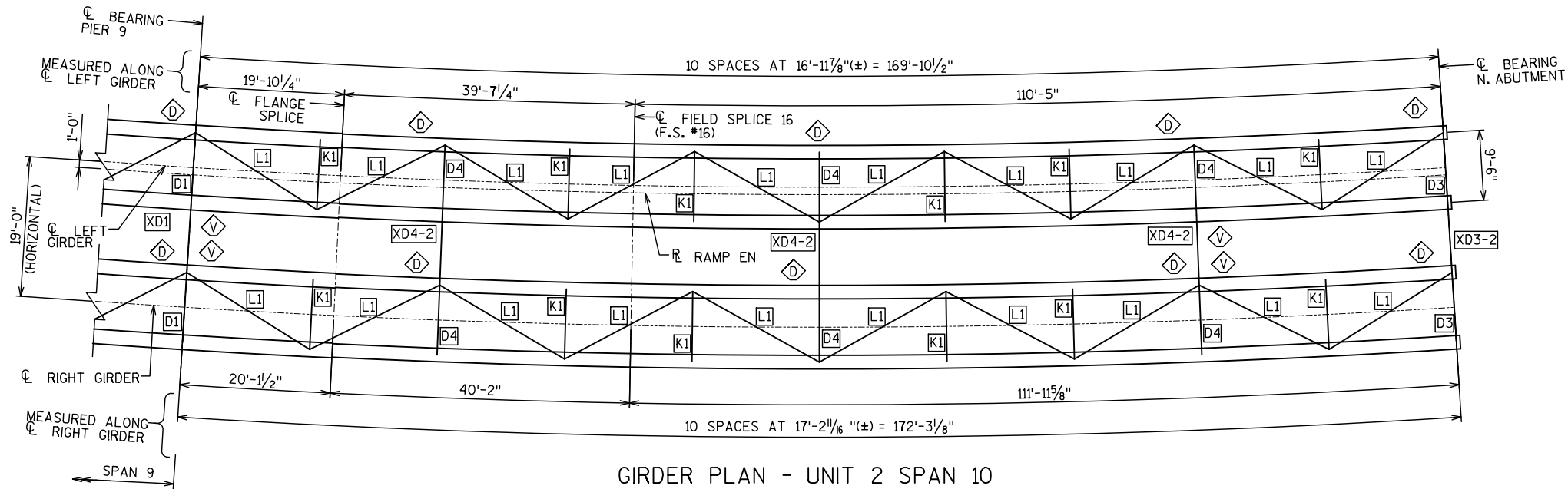
RIGHT GIRDER ELEVATION - UNIT 2 SPAN 9

(NOT TO SCALE- VERTICAL SCALE EXAGGERATED FOR CLARITY)

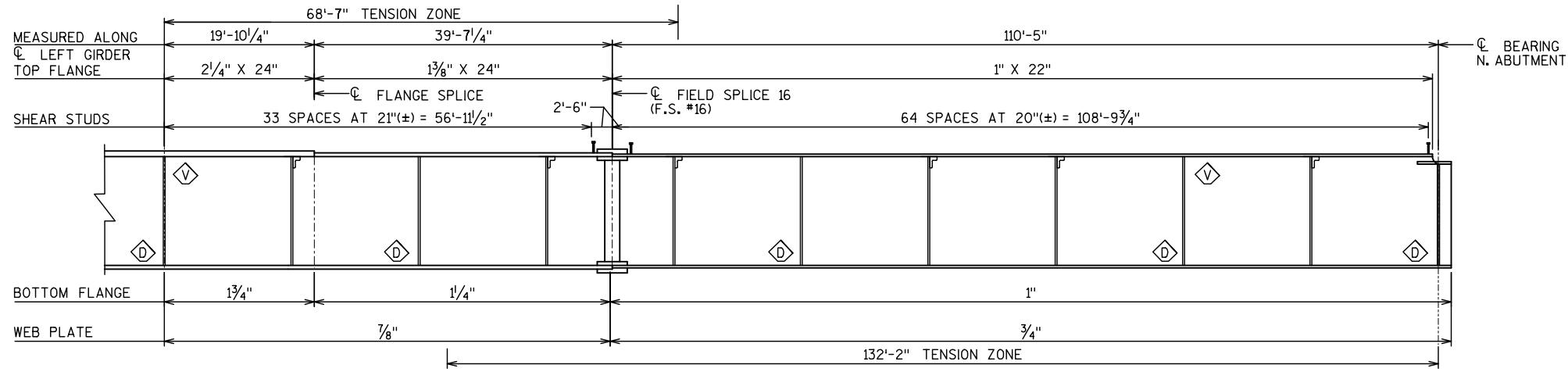
NOTES:

FOR NOTES AND LEGEND SEE GIRDER
PLAN & ELEVATION UNIT 1- SPAN 1
SHEET

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY JRS		PLANS CK'D. NPP	
GIRDER PLAN & ELEVATION UNIT 2 - SPAN 9			SHEET 24 OF 50

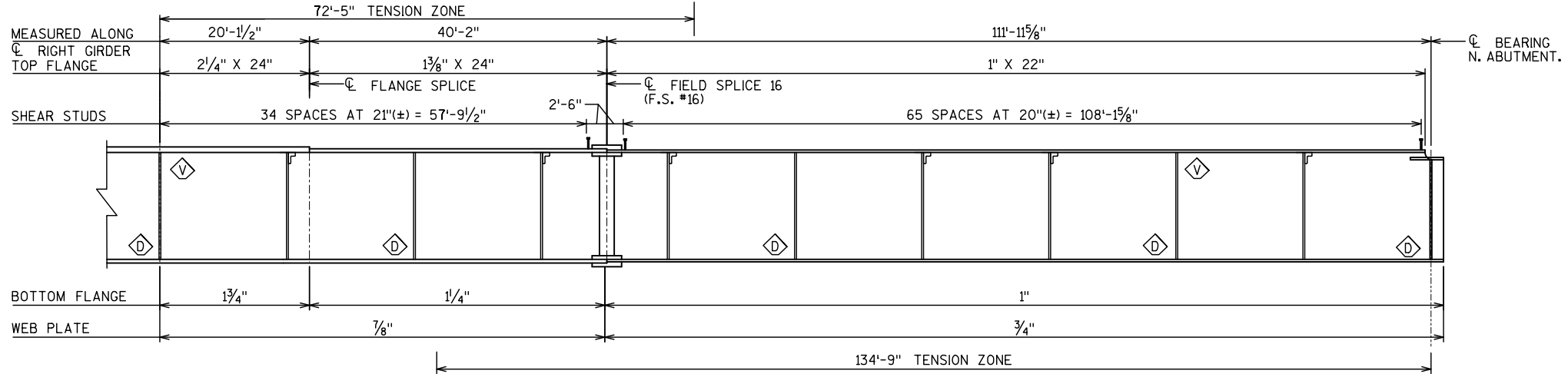


GIRDER PLAN - UNIT 2 SPAN 10



LEFT GIRDER ELEVATION - UNIT 2 SPAN 10

(NOT TO SCALE- VERTICAL SCALE EXAGGERATED FOR CLARITY)



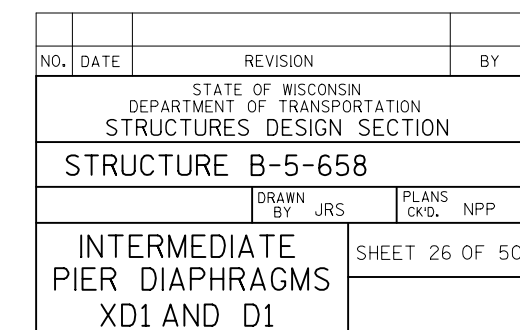
RIGHT GIRDER ELEVATION - UNIT 2 SPAN 10

(NOT TO SCALE- VERTICAL SCALE EXAGGERATED FOR CLARITY)

NOTES:

FOR NOTES AND LEGEND SEE GIRDER
PLAN & ELEVATION UNIT 1- SPAN 1
SHEET

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY JRS		PLANS CK'D. NPP	
GIRDER PLAN & ELEVATION UNIT 2 - SPAN 10			SHEET 25 OF 50





EXTERNAL DIAPHRAGM 'XD2' OR 'XD3'
(BETWEEN TWO "D2" DIAPHRAGMS OR TWO "D3" DIAPHRAGMS)

INTERNAL DIAPHRAGM 'D3'

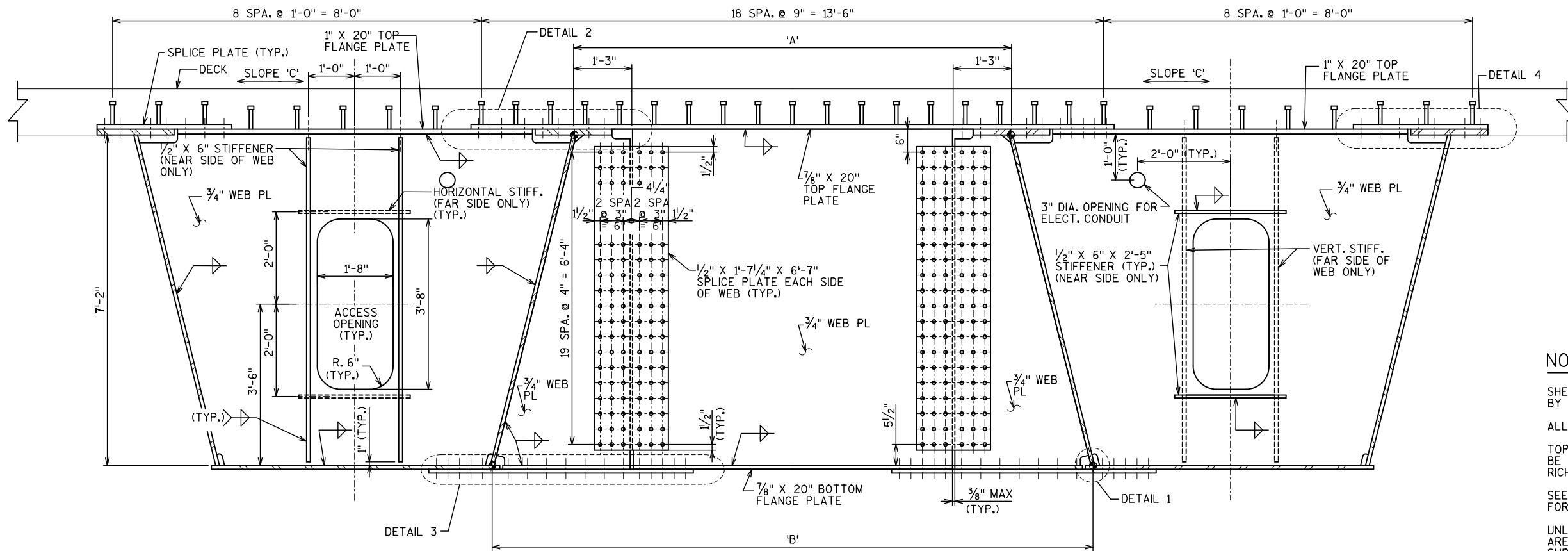
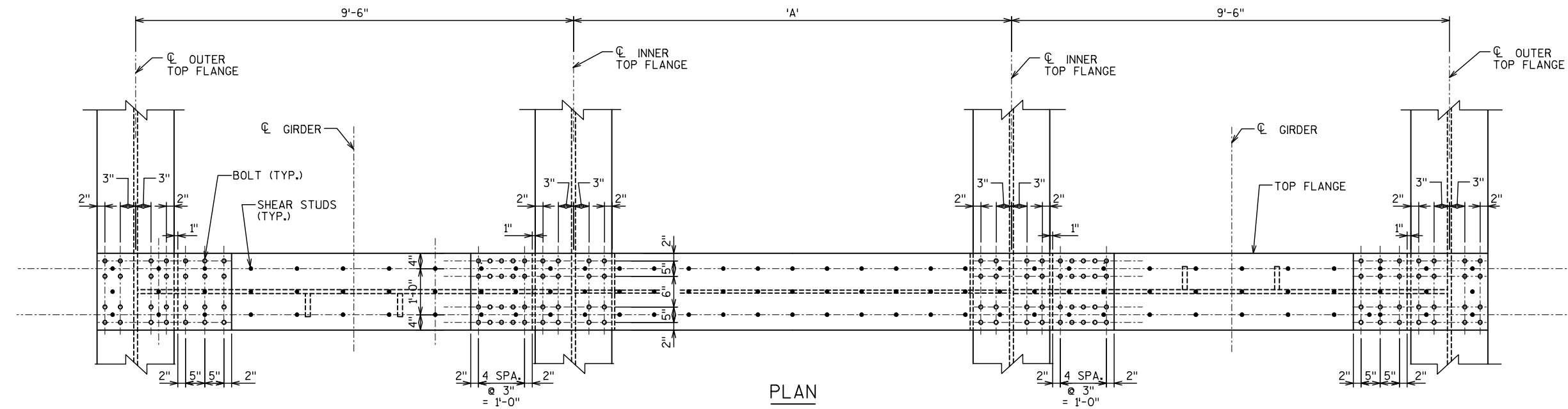
* ACCESS DOOR REQUIRED AT INTERNAL DIAPHRAGM D2, SEE ACCESS DOOR DETAILS SHEET.

	A	B	C
XD2-1	10'-0 ⁷ / ₁₆ "	13'-1 ⁷ / ₁₆ "	+6.00%
XD3-1	10'-0 ¹ / ₄ "	13'-1 ¹ / ₄ "	+4.67%
XD3-2	10'-0 ⁷ / ₁₆ "	13'-1 ⁷ / ₁₆ "	+6.00%

-SLOPE 'C'

(SUPERELEVATION NOT SHOWN)

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
		DRAWN BY JRS	PLANS CK'D. NPP
UNIT END		SHEET 27 OF 50	
DIAPHRAGMS XD2			
XD3, D2 AND D3			



INTERNAL DIAPHRAGM D4
(SHOWING FACE WITH VERTICAL STIFFENERS)

EXTERNAL DIAPHRAGM 'XD4'

INTERNAL DIAPHRAGM D4
(SHOWING FACE WITH HORIZONTAL STIFFENERS)

TABLE OF VARIABLES

	A	B	C
XD4-1	9'-6 3/8"	13'-1 3/8"	+5.70%
XD4-2	9'-6 7/16"	13'-1 7/16"	+6.00%

DIMENSIONS ARE MEASURED ALONG SUPERELEVATION.

+SLOPE 'C'
-SLOPE 'C'

ELEVATION

(SUPERELEVATION NOT SHOWN)
(LOOKING UPSTATION)

NOTES:

SHEAR STUDS FURNISHED AND INSTALLED BY OTHERS DURING ERECTION.

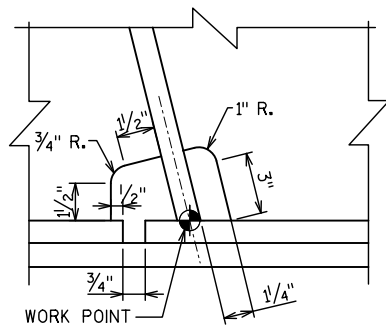
ALL BOLTS SHOWN SHALL BE 7/8" DIAMETER.

TOP OF DIAPHRAGM TOP FLANGE PLATE TO BE PROVIDED WITH 3 MIL OF ORGANIC ZINC RICH PRIMER.

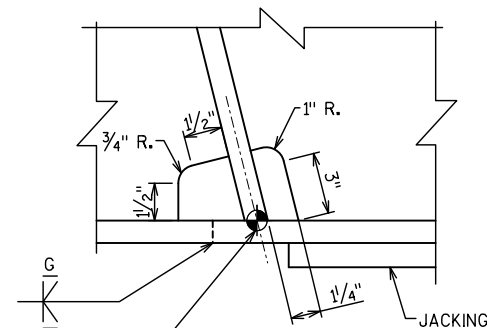
SEE MISCELLANEOUS DIAPHRAGM DETAILS SHEET FOR DETAILS 1, 2, 3 AND 4 AND SECTIONS.

UNLESS OTHERWISE NOTED, ALL DIMENSIONS GIVEN ARE PARALLEL OR PERPENDICULAR TO SUPERELEVATION.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY JRS		PLANS CK'D. NPP	
INTERMEDIATE DIAPHRAGMS XD4 AND D4			SHEET 28 OF 50

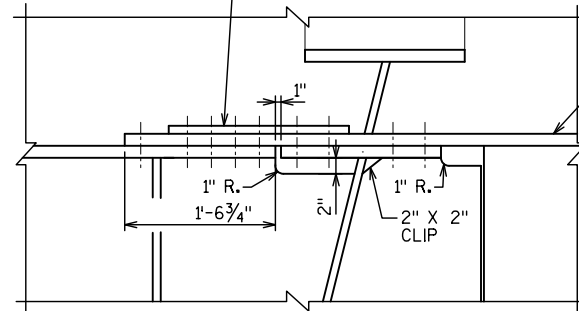


DETAIL 1
DIAPHRAGM XD4/D4

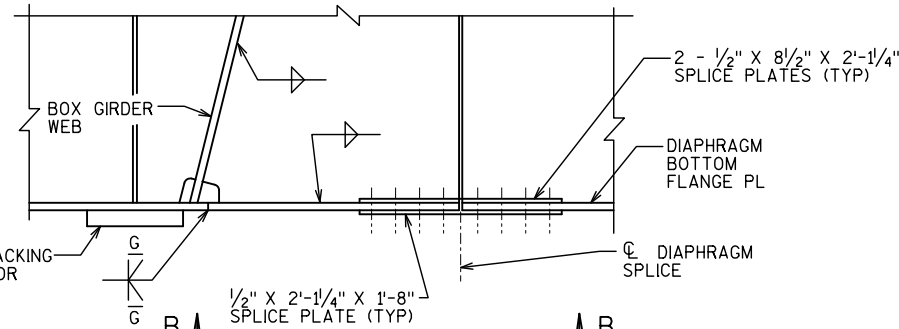


DETAIL 1
DIAPHRAGMS XD1/D1 AND XD2/D2/XD3/D3

5/8" X 1'-10" X 1'-11 5/8" FOR 1'-8" TOP FLANGE
5/8" X 1'-11" X 1'-11 5/8" FOR 1'-10" TOP FLANGE
BENT CONNECTION PLATE

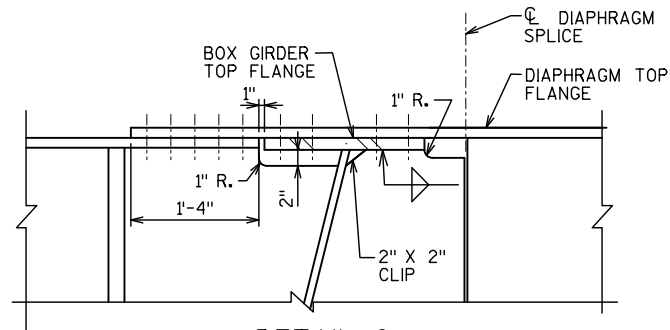


DETAIL 5
DIAPHRAGMS XD2/D2/XD3/D3

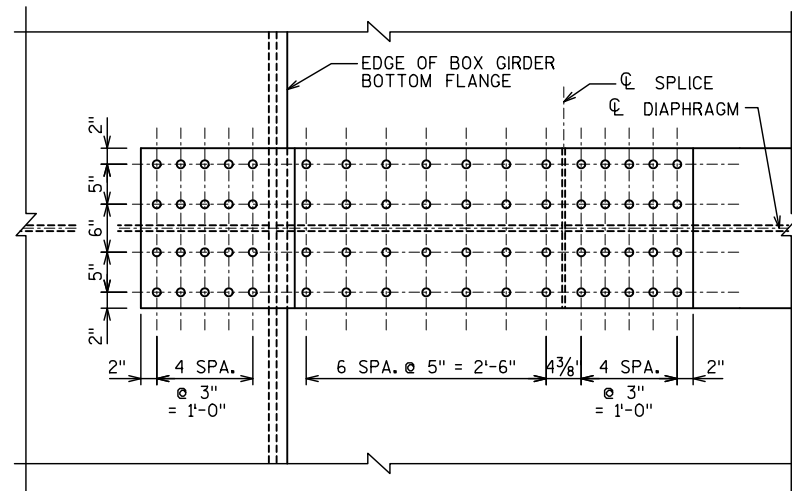


DETAIL 6
DIAPHRAGMS XD1/D1, XD2/D2 AND XD3/D3

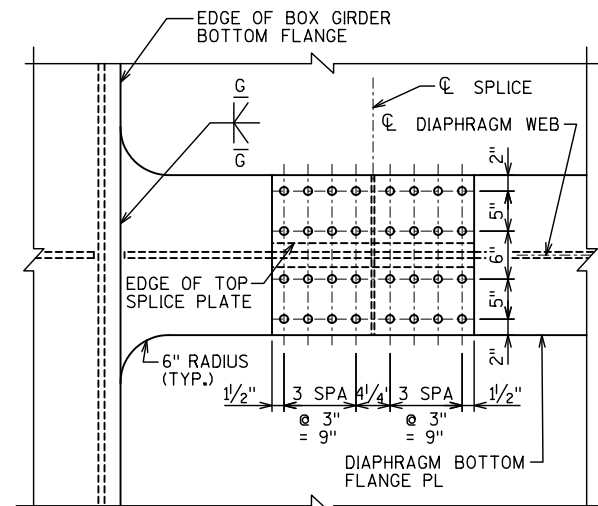
* SEE MISC. GIRDER DETAILS
SHEET 2



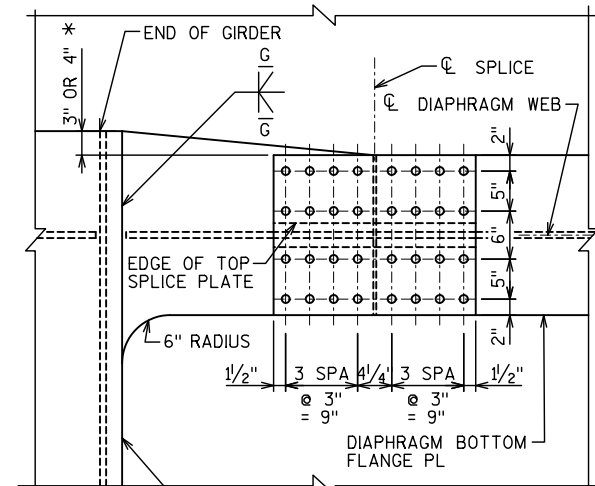
DETAIL 2
SHEET XD1/D1 AND XD4/D4



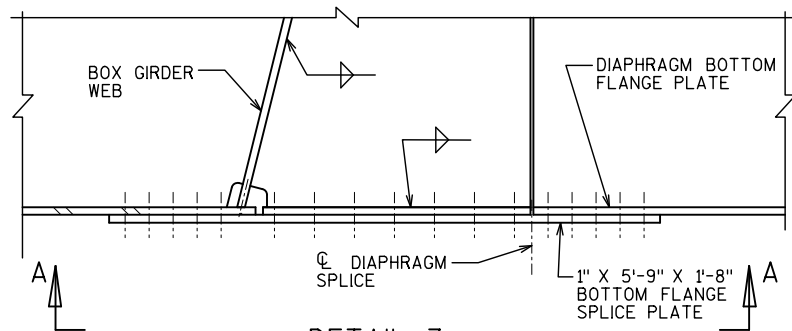
SECTION A-A
THIS SHEET



SECTION B-B
THIS SHEET
(DIAPHRAGM XD1/D1)

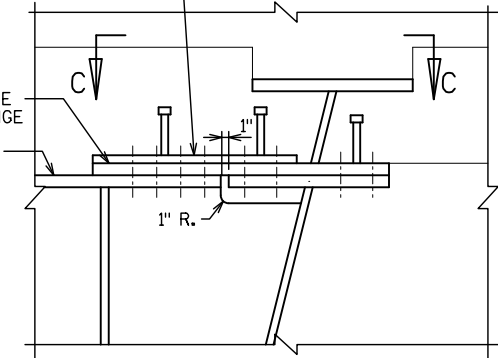


SECTION B-B
THIS SHEET
(DIAPHRAGM XD2/D2 AND XD3/D3)



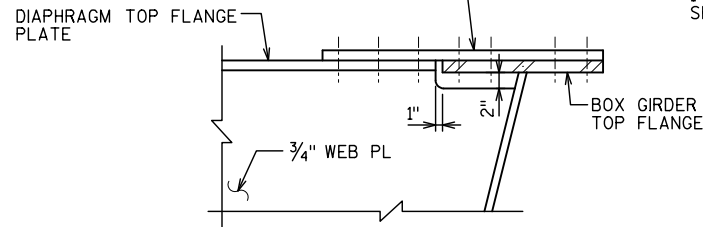
DETAIL 3
DIAPHRAGM XD4/D4

5/8" X 2'-1" X 1'-11 5/8" FOR 1'-8" TOP FLANGE
5/8" X 2'-2" X 1'-11 5/8" FOR 1'-10" TOP FLANGE
BENT CONNECTION PLATE

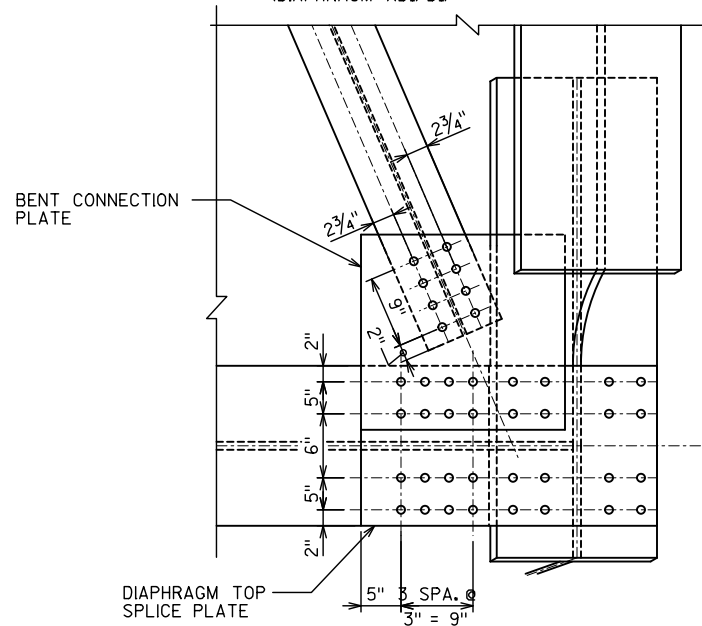


DETAIL 7
DIAPHRAGMS XD2/D2/XD3/D3

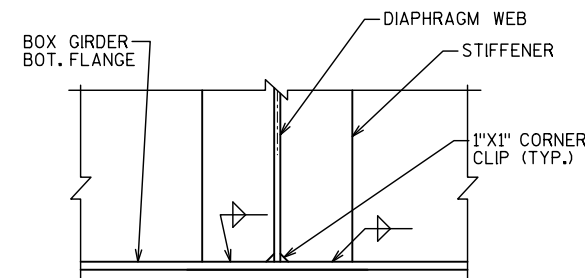
1" X 2'-11" X 1'-8" FOR 1'-8" TOP FLANGE
1" X 3'-1" X 1'-8" FOR 1'-10" TOP FLANGE
1" X 3'-3" X 1'-8" FOR 2'-0" TOP FLANGE
SPICE PLATE



DETAIL 4
DIAPHRAGMS XD1/D1 AND XD4/D4

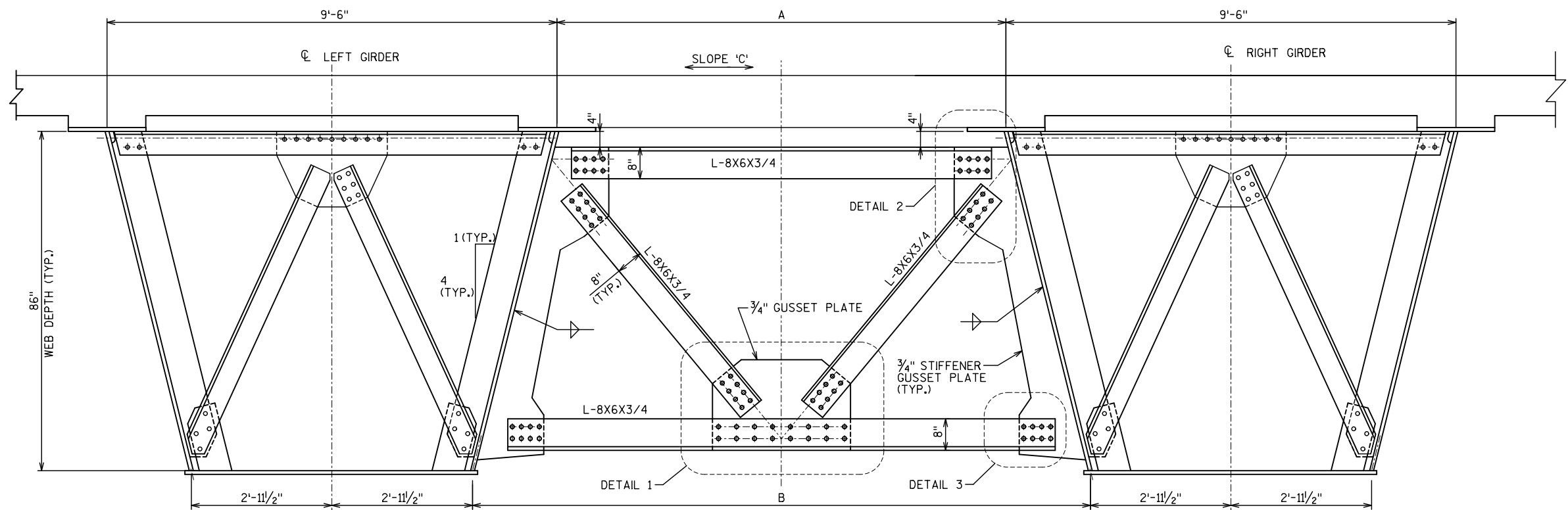


SECTION C-C
THIS SHEET
(SHEAR STUDS NOT SHOWN FOR CLARITY)

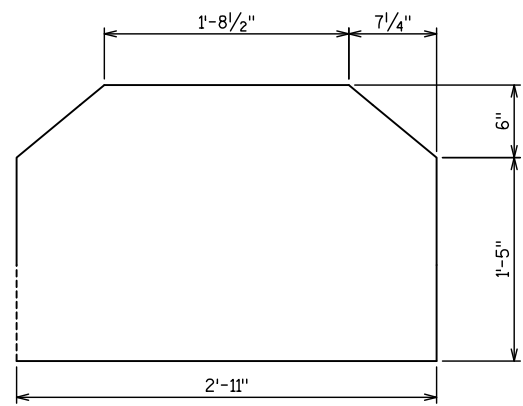


STIFFENER TO FLANGE DETAIL
ALL DIAPHRAGMS AND ALL STIFFENERS
NO WELD AT TOP OF STIFFENERS

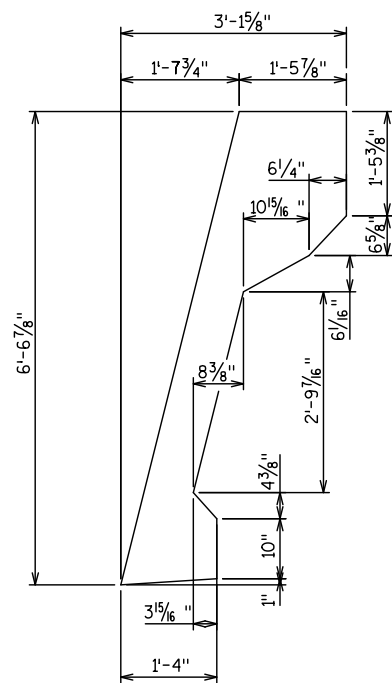
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY JRS		PLANS CK'D. NPP	
MISCELLANEOUS DIAPHRAGM DETAILS		SHEET 29 OF 50	



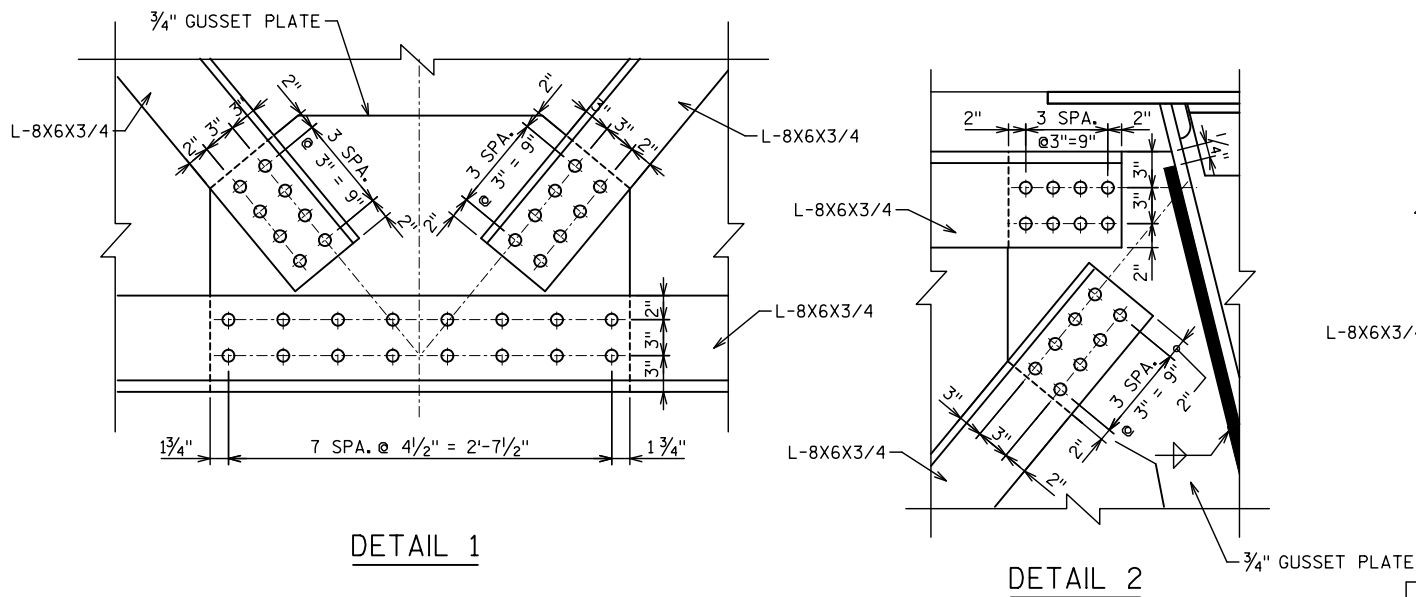
ELEVATION EXTERIOR CROSS FRAME XF

(SUPERELEVATION NOT SHOWN)
(LOOKING UPSTATION)

GUSSET PLATE DETAILS

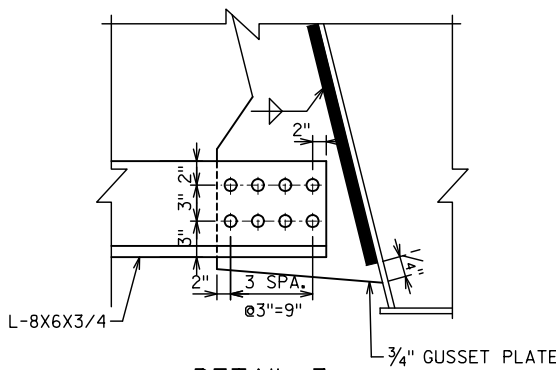


STIFFENER GUSSET PLATE DETAILS



DETAIL 1

DETAIL 2



DETAIL 3

NOTES:

1. ALL HOLES SHALL BE STANDARD DIAMETER - NO OVERSIZE HOLES.
2. ALL CONNECTIONS SHALL BE FABRICATED AND ASSEMBLED AS SLIP-CRITICAL CONNECTIONS
3. CROSS FRAMES ARE ALIGNED NORMAL TO THE GIRDERS.
4. EXTERIOR CONNECTION PLATES SHALL BE LOCATED DIRECTLY IN LINE WITH THE CORRESPONDING WEB STIFFENER LOCATED INSIDE THE BOX.
5. FOR SUPERELEVATED ROAD SECTION, THE EXTERIOR FRAMES VARY IN LENGTH

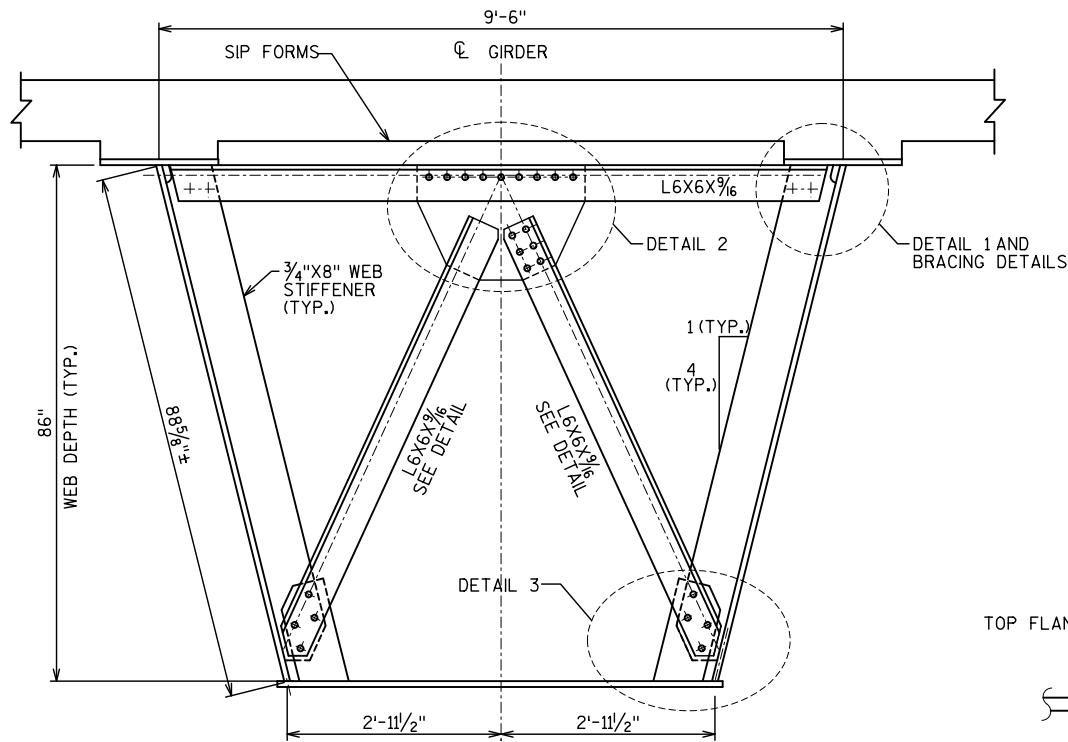
TABLE OF VARIABLES

	A	B	C
XF	9'-6 7/16"	13'-1 7/16"	+6.00%

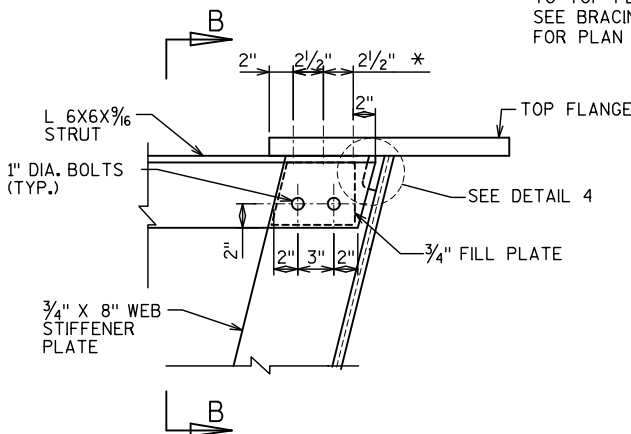
+SLOPE 'C'

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY SOL		PLANS CK'D. NPP	
EXTERIOR CROSS FRAME DETAILS		SHEET 30 OF 50	

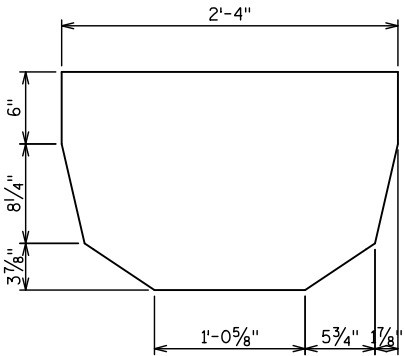
* BOLT SPACING FOR STRUT
TO TOP FLANGE CONNECTION.
SEE BRACING DETAILS SHEET
FOR PLAN VIEW.



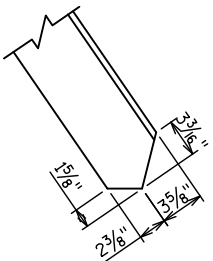
TYPICAL SECTION AT K-FRAME



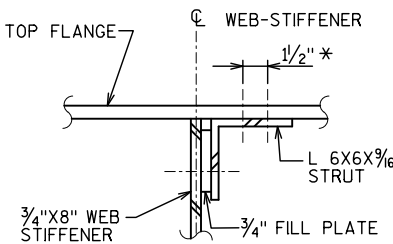
DETAIL 1



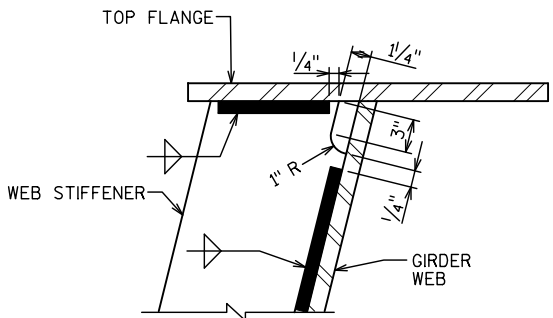
3/4" CONN. PLATE DETAIL



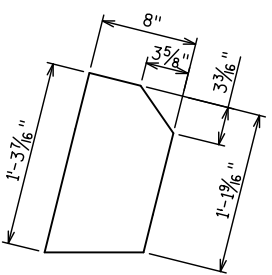
L 6"X6"X9/16" DETAIL



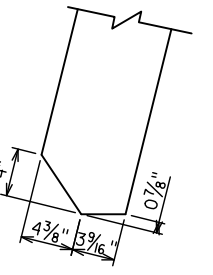
SECTION B-B



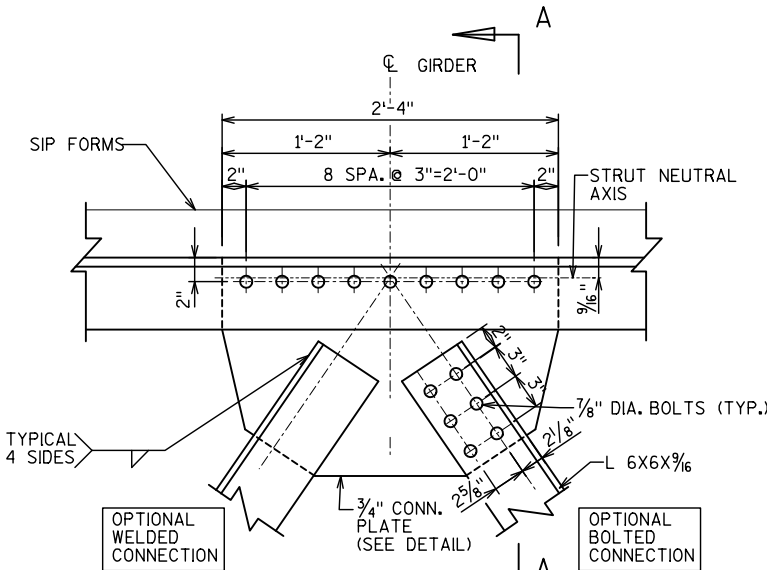
DETAIL 4



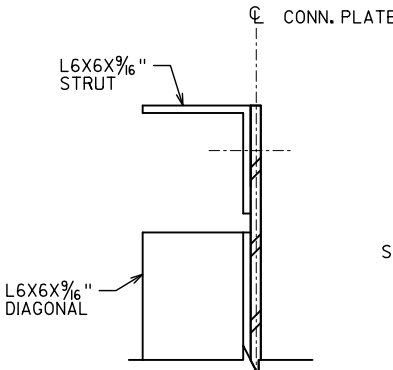
PL 3/4"X8" DETAIL



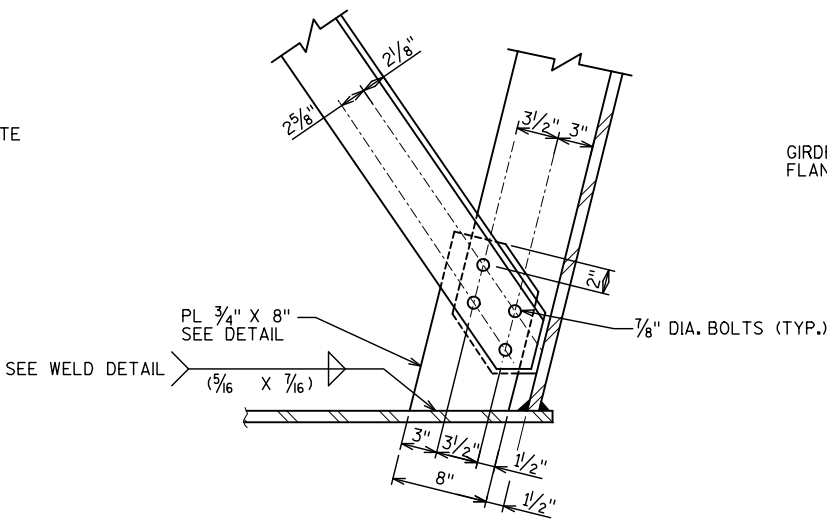
WEB STIFFENER DETAIL



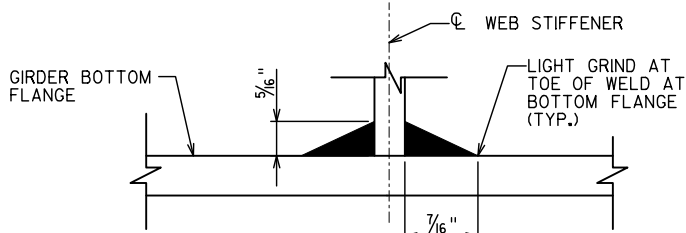
DETAIL 2



SECTION A-A

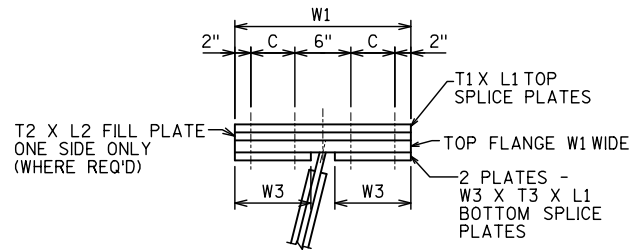
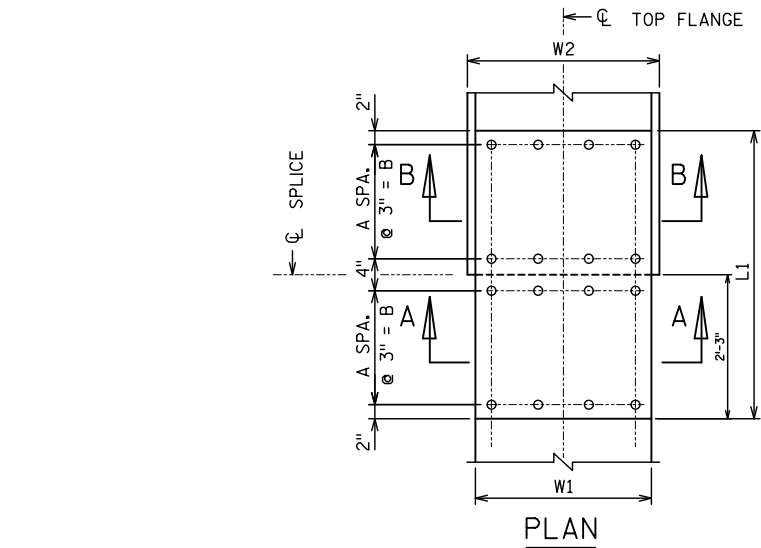


DETAIL 3

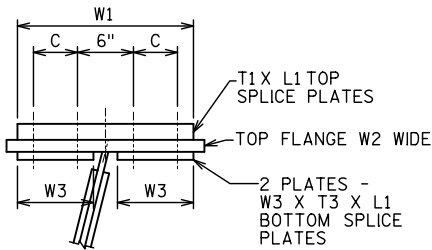


WEB STIFFENER WELD DETAIL

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY SOI		PLANS CK'D. NPP	
INTERIOR CROSS FRAME K1 DETAILS		SHEET 31 OF 50	

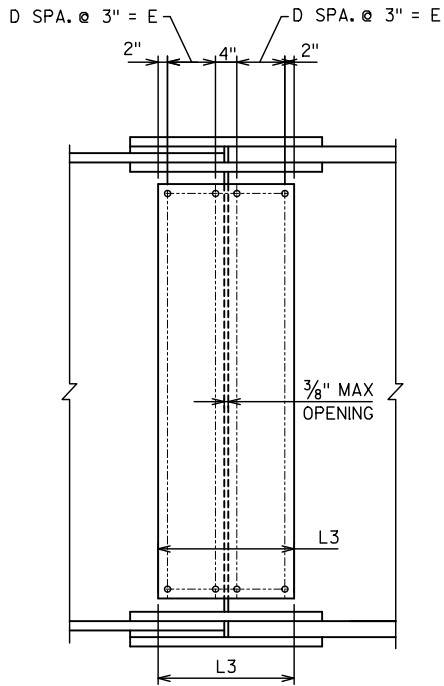


SECTION A-A

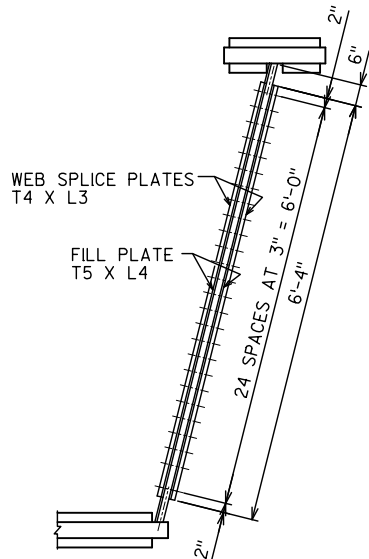


SECTION B-B

TYPICAL TOP FLANGE CONNECTION

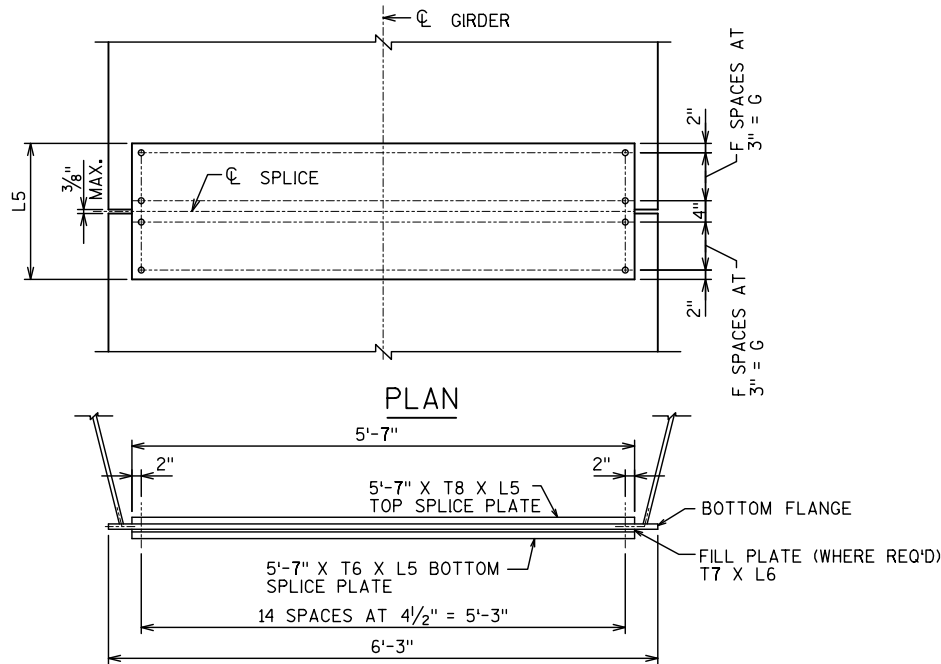


ELEVATION



SECTION

TYPICAL WEB CONNECTION



SECTION

TYPICAL BOTTOM FLANGE CONNECTION

FIELD SPLICE NO.	TOP FLANGE											WEB SPLICE						BOTTOM FLANGE							
	T1 (IN)	T2 (IN)	T3 (IN)	W1 (IN)	W2 (IN)	W3 (IN)	L1 (IN)	L2 (IN)	A (SPA)	B (IN)	C (IN)	T4 (IN)	T5 (IN)	L3 (IN)	L4 (IN)	D (SPA)	E (IN)	T6 (IN)	T7 (IN)	T8 (IN)	L5 (IN)	L6 (IN)	F (SPA)	G (IN)	
1	0.5	0.125	0.625	20	20	8	38	19	5	15	5	0.5	0.0625	26	13	3	9	0.5	0.25	0.5	38	19	5	15	
2	0.5	0.125	0.625	20	20	8	38	19	5	15	5	0.5	0.0625	26	13	3	9	0.5	0.25	0.5	38	19	5	15	
3	0.5	0.125	0.625	20	20	8	38	19	5	15	5	0.5	0.0625	26	13	3	9	0.5	0.25	0.5	38	19	5	15	
4	0.5	0.125	0.625	20	20	8	38	19	5	15	5	0.5	0.0625	26	13	3	9	0.5	0.25	0.5	38	19	5	15	
5	0.5	0.125	0.625	20	20	8	38	19	5	15	5	0.5	0.0625	26	13	3	9	0.5	0.25	0.5	38	19	5	15	
6	0.5	0.125	0.625	20	20	8	38	19	5	15	5	0.5	0.0625	26	13	3	9	0.5	0.25	0.5	38	19	5	15	
7	0.5	0.375	0.625	22	24	9	44	22	6	18	6	0.5	0.0625	20	10	2	6	0.5	0.25	0.5	38	19	5	15	
8	0.5	0.375	0.625	22	24	9	44	22	6	18	6	0.5	0.0625	20	10	2	6	0.5	0.25	0.5	38	19	5	15	
9	0.5	0.375	0.625	22	24	9	44	22	6	18	6	0.5	0.0625	20	10	2	6	0.5	0.25	0.5	38	19	5	15	
10	0.5	0.375	0.625	22	24	9	44	22	6	18	6	0.5	0.0625	20	10	2	6	0.5	0.25	0.5	38	19	5	15	
11	0.5	0.375	0.625	22	24	9	44	22	6	18	6	0.5	0.0625	20	10	2	6	0.5	0.25	0.5	38	19	5	15	
12	0.5	0.375	0.625	22	24	9	44	22	6	18	6	0.5	0.0625	20	10	2	6	0.5	0.25	0.5	38	19	5	15	
13	0.5	0.375	0.625	22	24	9	44	22	6	18	6	0.5	0.0625	20	10	2	6	0.5	0.25	0.5	38	19	5	15	
14	0.5	0.375	0.625	22	24	9	44	22	6	18	6	0.5	0.0625	20	10	2	6	0.5	0.25	0.5	38	19	5	15	
15	0.5	0.375	0.625	22	24	9	44	22	6	18	6	0.5	0.0625	20	10	2	6	0.5	0.25	0.5	38	19	5	15	
16	0.5	0.375	0.625	22	24	9	44	22	6	18	6	0.5	0.0625	20	10	2	6	0.5	0.25	0.5	38	19	5	15	

NOTES:

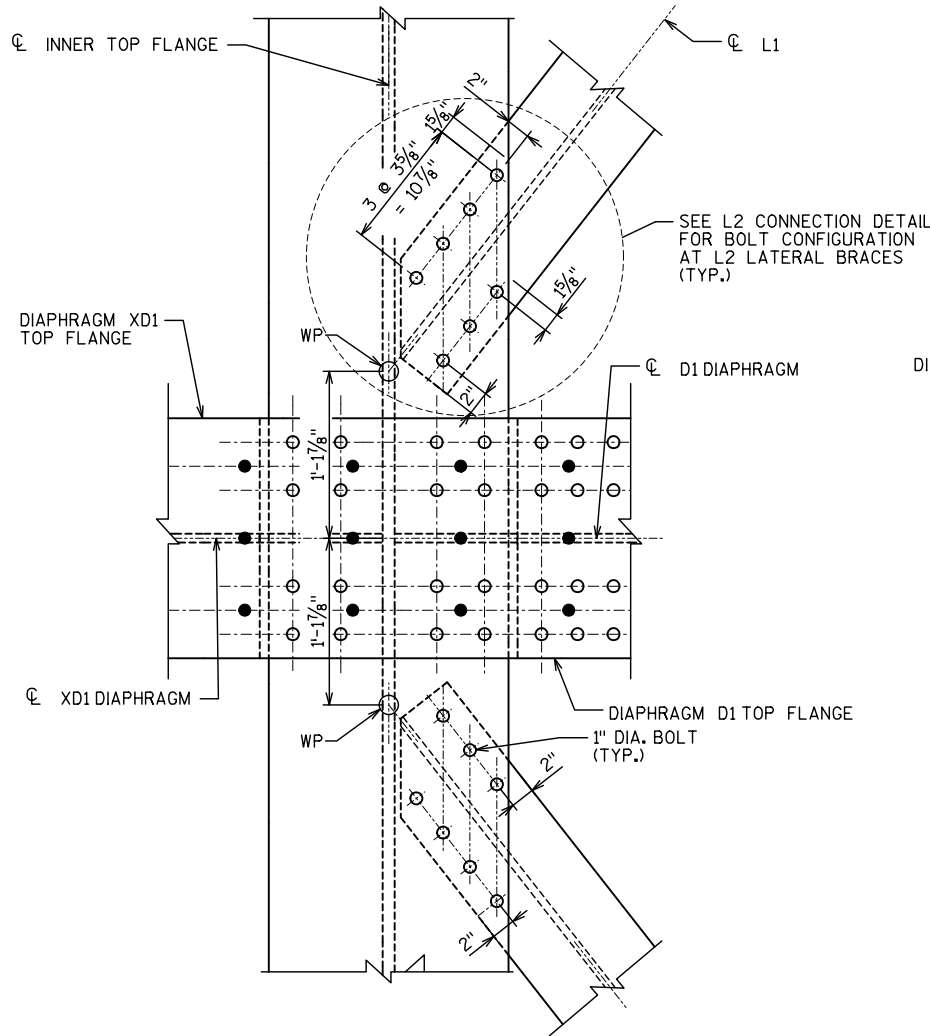
ALL BOLTS SHOWN ARE 7/8" DIAMETER
ASTM A325 TYPE 1.

ALL HOLES SHALL BE STANDARD DIAMETER
NO OVERSIZE HOLES.

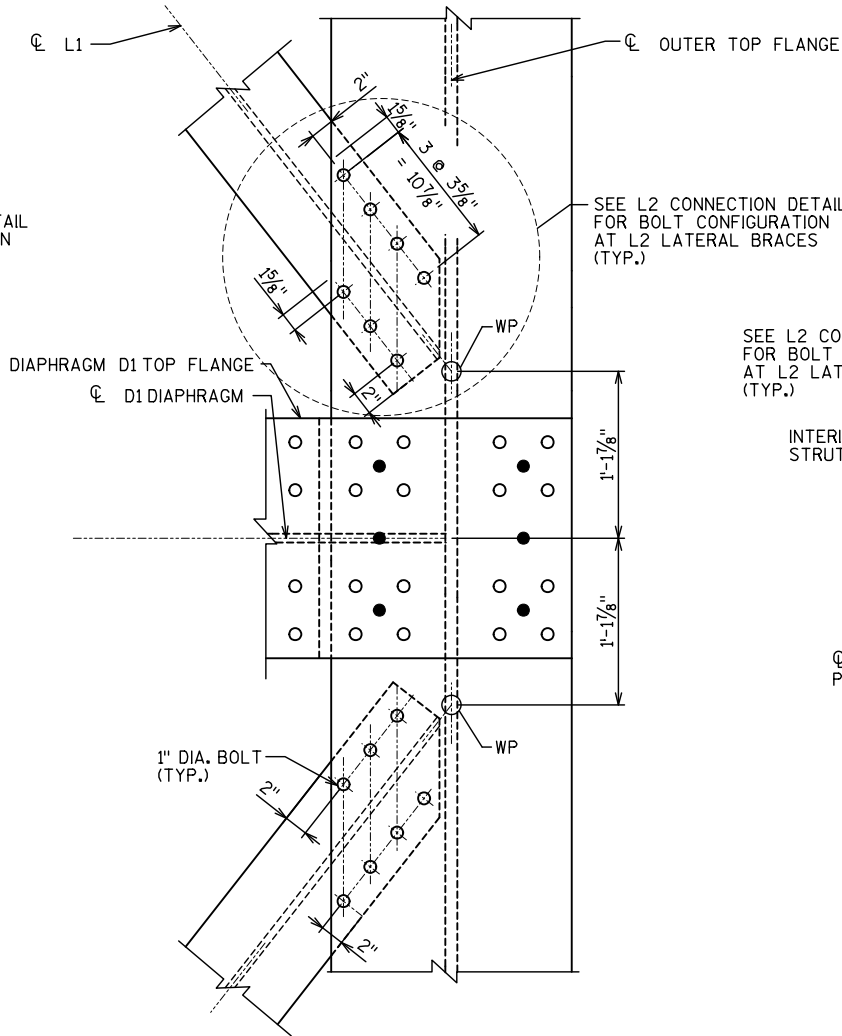
ALL CONNECTIONS SHALL BE FABRICATED
AND ASSEMBLED AS SLIP-CRITICAL CLASS A
CONNECTIONS

ALL SPlice PLATES SHALL BE ASTM A709
GRADE HPS 50W.

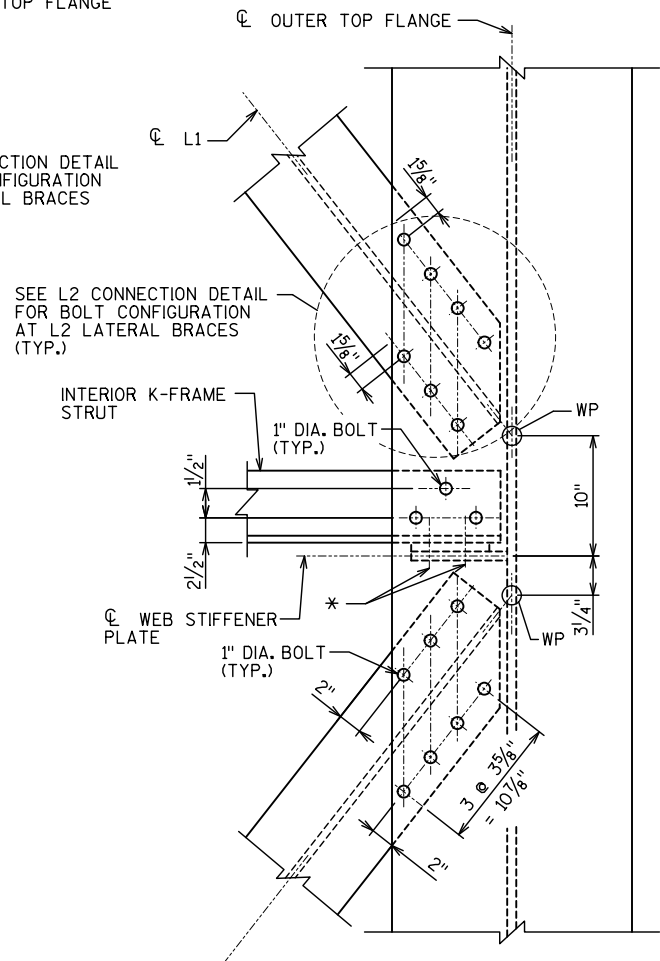
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
		DRAWN BY JRS	PLANS CK'D. NPP
FIELD SPLICE DETAILS		SHEET 32 OF 50	



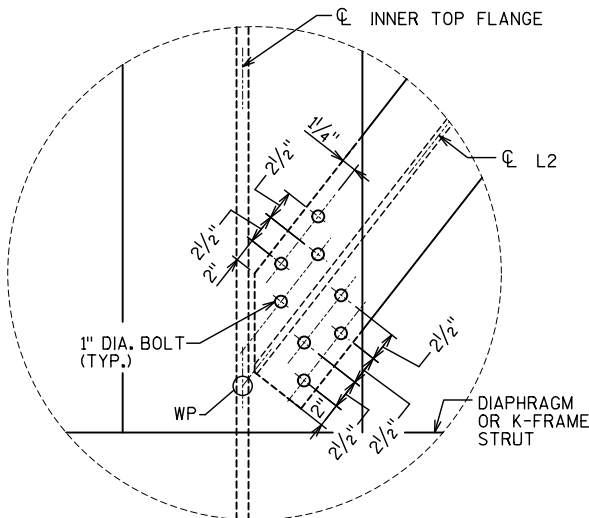
PLAN VIEW AT DIAPHRAGM XD1/D1
(SHOWING INNER TOP FLANGE)
(XD4/D4 SIMILAR)



PLAN VIEW AT DIAPHRAGM XD1/D1
(SHOWING OUTER TOP FLANGE)
(XD4/D4 SIMILAR)



PLAN VIEW AT K-FRAME
(SHOWING OUTER TOP FLANGE)
(INNER TOP FLANGE SIMILAR)



L2 CONNECTION DETAIL
(DETAIL SHOWING CONNECTION AT DIAPHRAGMS
OR K-FRAMES FOR L2 LATERAL BRACES)
(INNER FLANGE SHOWN, OUTER TOP FLANGE SIMILAR)
(WP SHOWN IS SAME WP AS L1 DETAILS)

NOTES:

SEE GIRDER PLAN AND ELEVATION SHEETS
FOR LOCATIONS OF DETAILS.

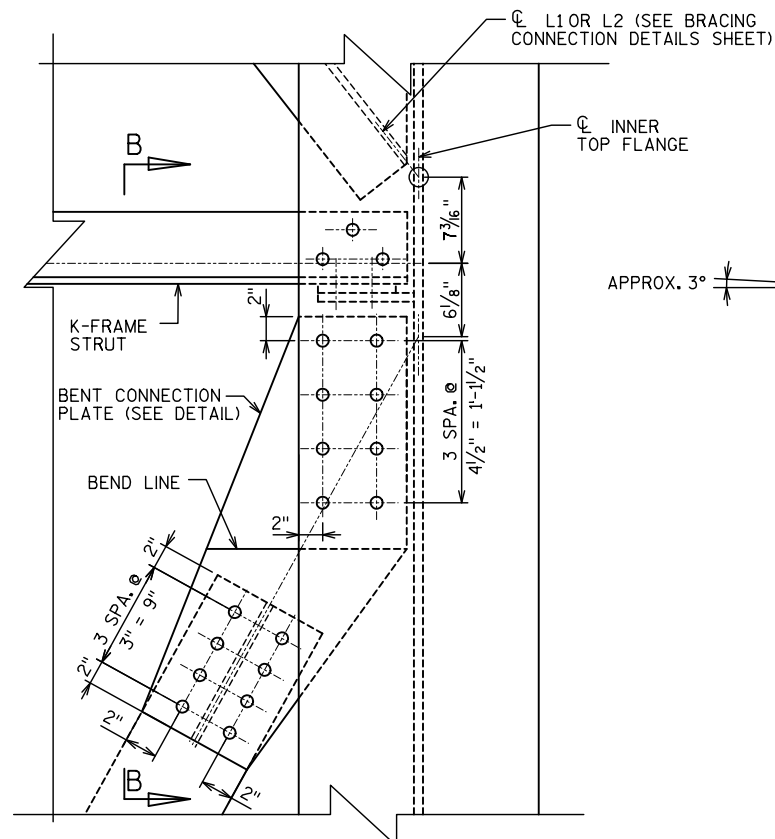
LATERAL BRACE MEMBERS:
L1: WT7X34
L2: WT8X50

* SEE INTERIOR CROSS FRAME K-1 DETAILS
SHEET FOR ADDITIONAL DETAILS FOR
BOLTED CONNECTION OF STRUT ANGLE
LEG TO WEB STIFFENER.

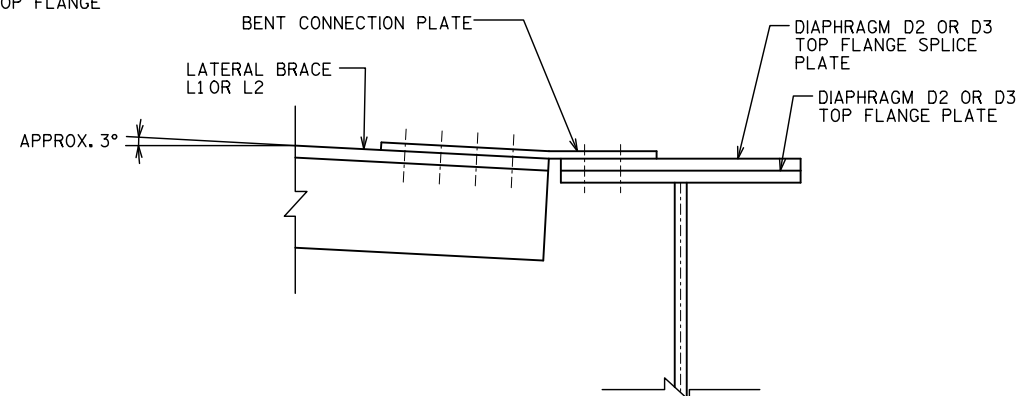
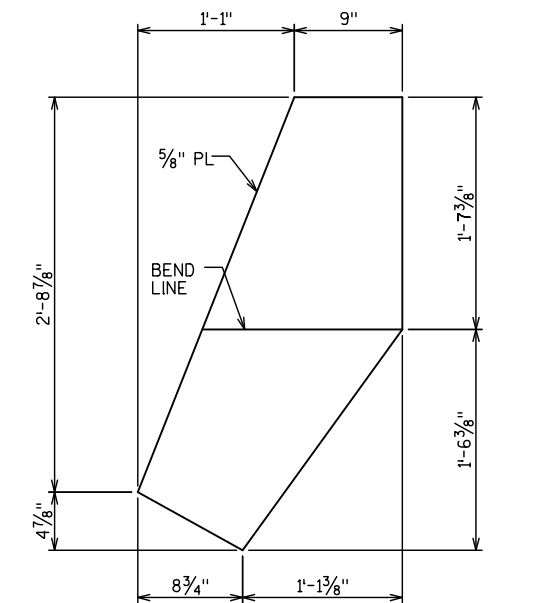
NOTES:

LATERAL BRACE L1 SHALL BE CONNECTED
TO THE DIAPHRAGM TOP FLANGE AND
GIRDER TOP FLANGE WITH 7-1" DIAMETER
BOLTS. LATERAL BRACE L2 SHALL BE
CONNECTED WITH 8-1" DIAMETER BOLTS.

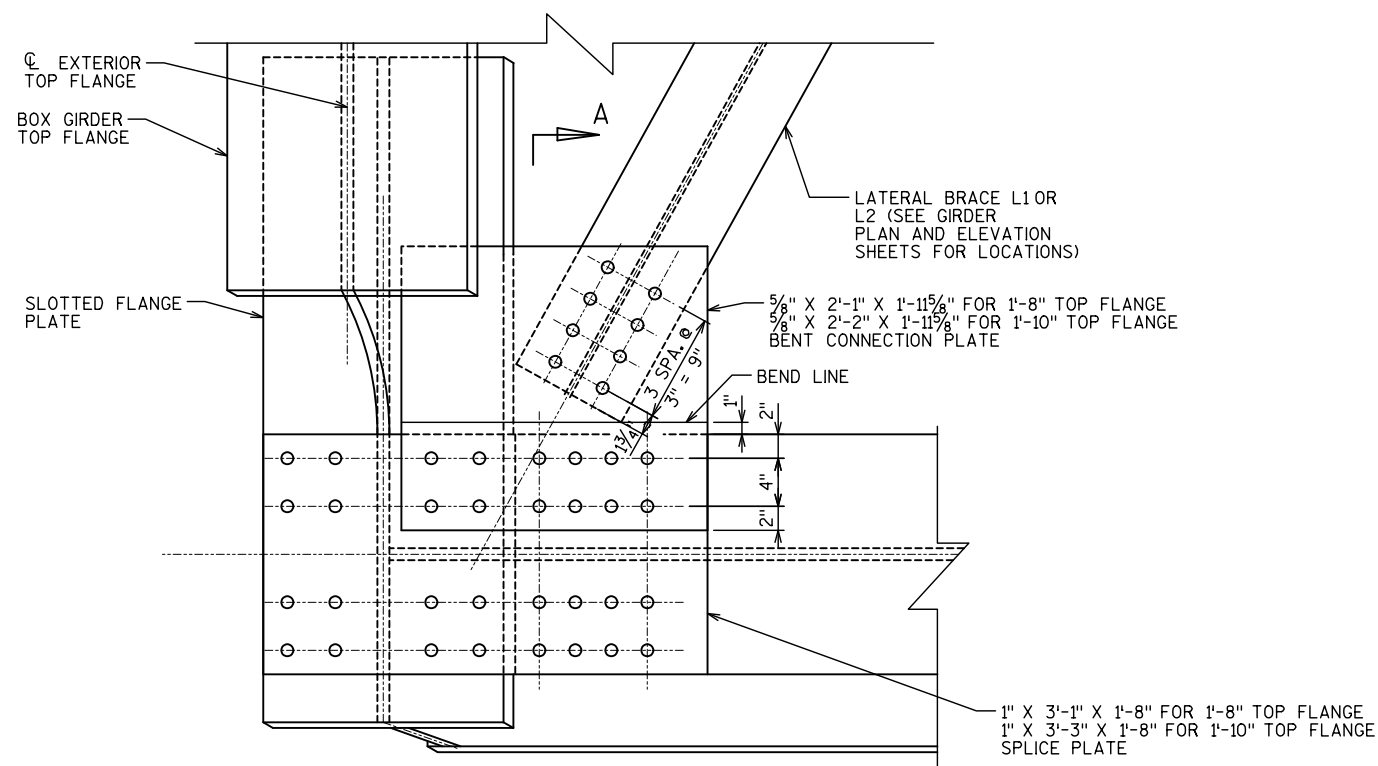
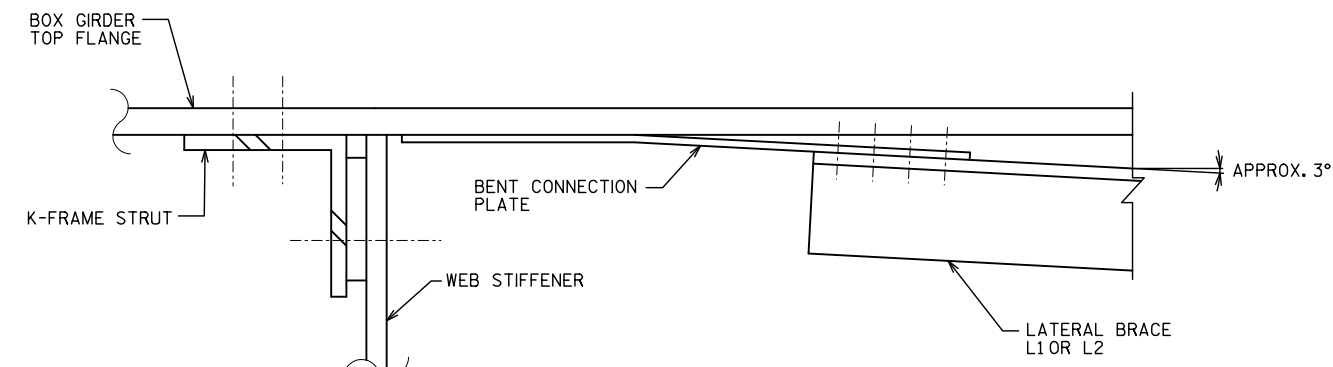
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY JRS		PLANS CK'D. NPP	
BRACING CONNECTION DETAILS		SHEET 33 OF 50	



PLAN VIEW AT K-FRAME ADJACENT TO UNIT END

SECTION A-A
THIS SHEET

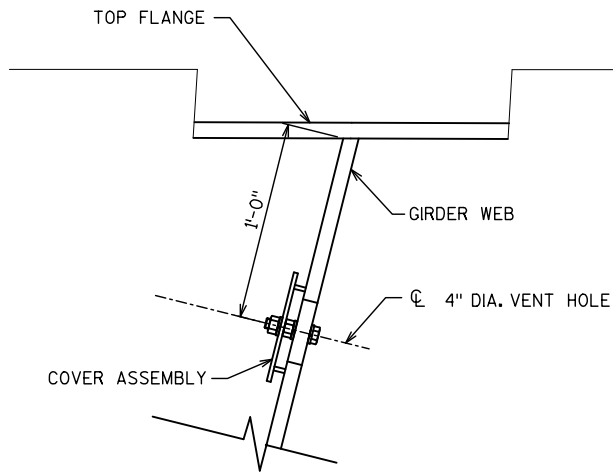
BENT CONNECTION PLATE DETAIL

PLAN VIEW AT UNIT END DIAPHRAGM
(EXTERIOR GIRDER SHOWN, INTERIOR GIRDER SIMILAR)SECTION B-B
THIS SHEET

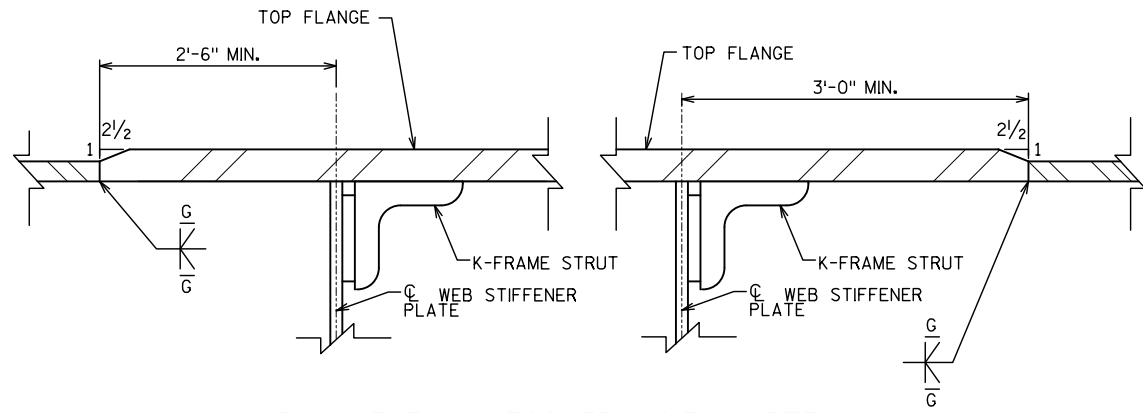
NOTES:

SEE GIRDER PLAN AND ELEVATION SHEETS
FOR LOCATIONS OF DETAILS

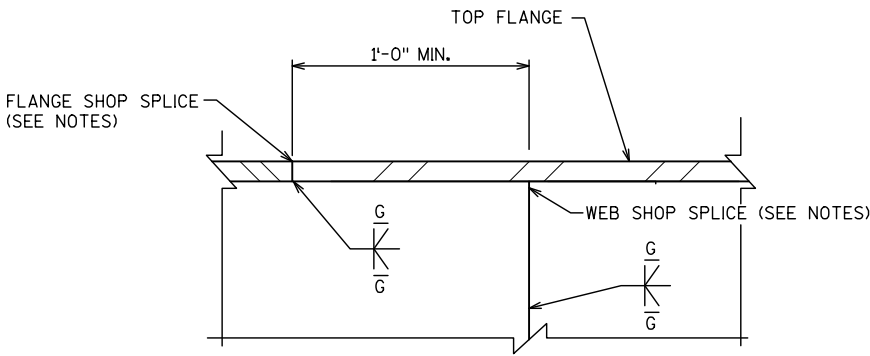
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY JRS		PLANS CK'D. NPP	
BRACING CONNECTION DETAILS SHEET 2		SHEET 34 OF 50	



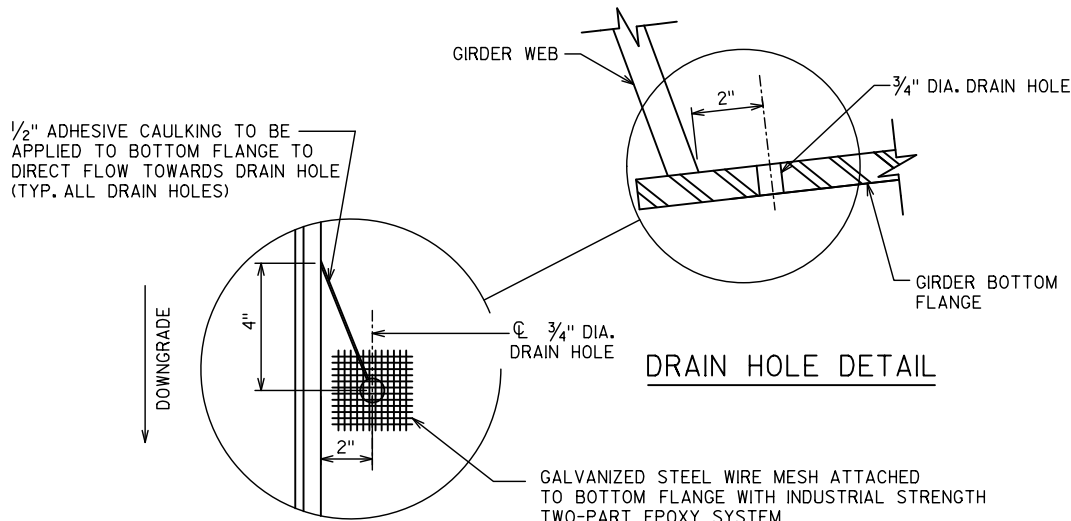
VENT HOLE LOCATION



FLANGE THICKNESS TRANSITION DETAIL
NOT TO SCALE

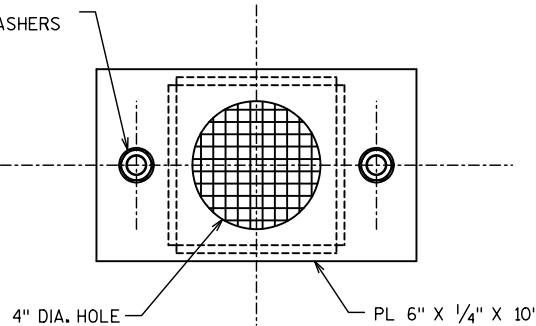


OPTIONAL SHOP SPLICE DETAIL
NOT TO SCALE
(SEE FLANGE THICKNESS TRANSITION DETAIL FOR
MINIMUM SPACING OF SHOP SPLICES TO STIFFENERS AND
K-FRAMES)

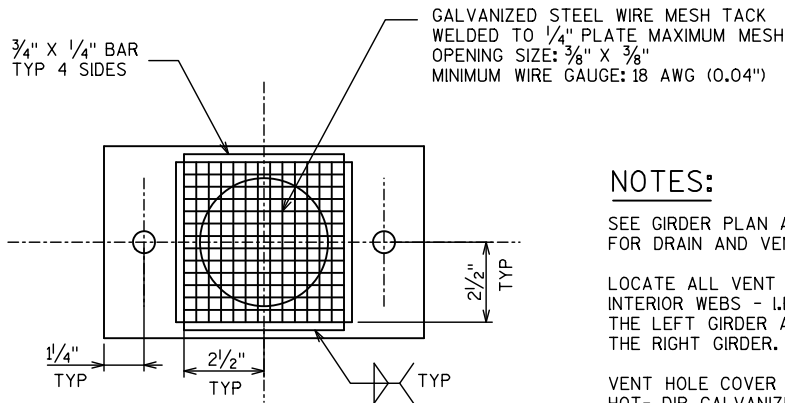


PLAN OF DRAIN HOLES

5/8" BOLTS WITH
2 NUTS & 3 WASHERS



INSIDE FACE



BACK FACE

VENT HOLE COVER ASSEMBLY
NOT TO SCALE

NOTES:

SEE GIRDER PLAN AND ELEVATION SHEETS
FOR DRAIN AND VENT HOLE LOCATIONS.

LOCATE ALL VENT HOLES ON THE
INTERIOR WEBS - I.E. THE RIGHT WEB OF
THE LEFT GIRDER AND THE LEFT WEB OF
THE RIGHT GIRDER.

VENT HOLE COVER ASSEMBLIES SHALL BE
HOT- DIP GALVANIZED AFTER FABRICATION
AND INSTALLED AFTER GIRDERS ARE
PAINTED.

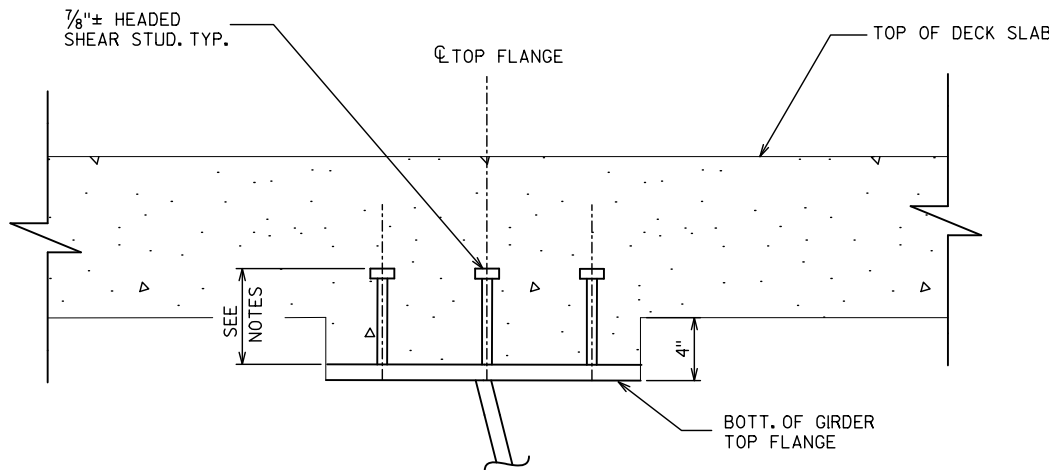
LOCATE ALL DRAIN HOLES ON THE LOW
SIDE OF THE GIRDER AS SHOWN.

COST OF ADHESIVE CAULKING, WIRE MESH
AND ATTACHMENT IS INCLUDED IN THE COST
OF "FABRICATED STRUCTURAL STEEL HPS 50W".

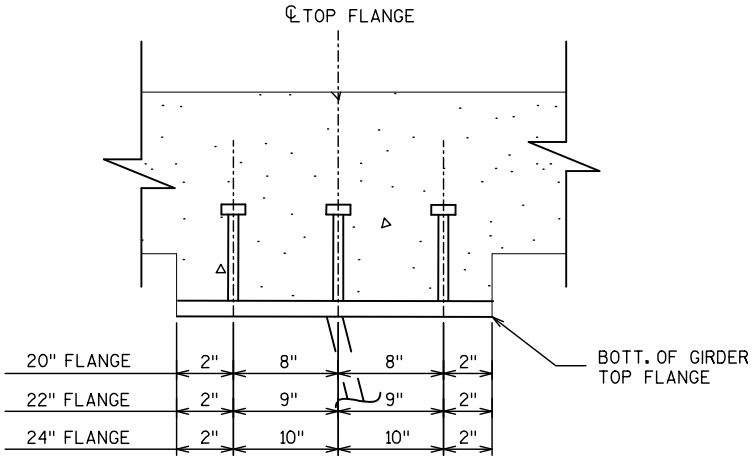
SHEAR STUD CONNECTORS ARE SHOWN FOR
REFERENCE ONLY AND ARE NOT FURNISHED
OR INSTALLED AS PART OF THIS CONTRACT.

SHEAR CONNECTORS PROVIDED IN FUTURE
CONTRACT WILL PENETRATE INTO DECK 2"
ABOVE BOTTOM MAT OF REINFORCING STEEL.

FOR FLANGE AND WEB PLATES 2" THICK AND
UNDER WITH LENGTHS MORE THAN 90'-0", AND
FOR PLATES THICKER THAN 2" WITH LENGTHS
MORE THAN 60'-0", ONE OPTIONAL WELDED
SHOP SPLICE IS ALLOWED. NO ADDITIONAL
PAYMENT WILL BE MADE FOR THESE SPLICES
AS REQUIRED DUE TO MAXIMUM PLATE LENGTHS
AVAILABLE FROM MILL.

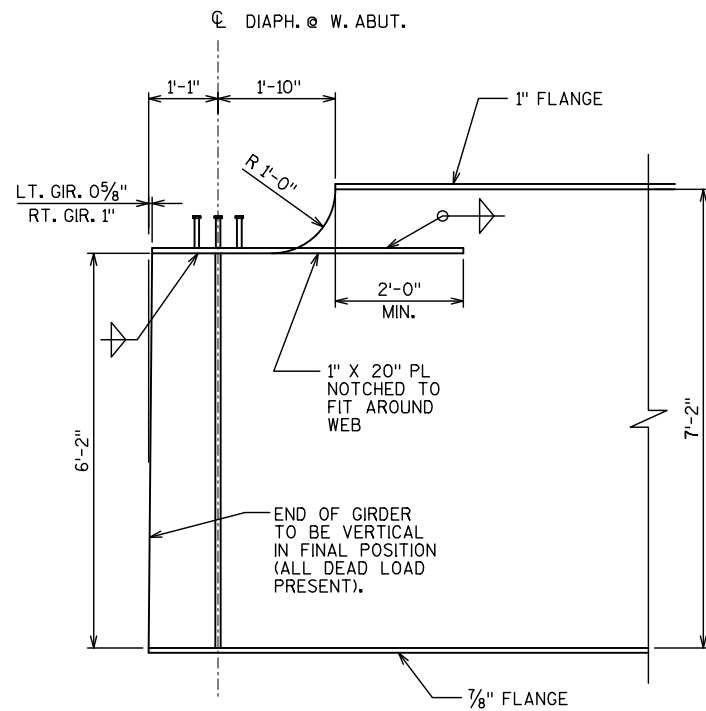


SHEAR STUD DETAIL

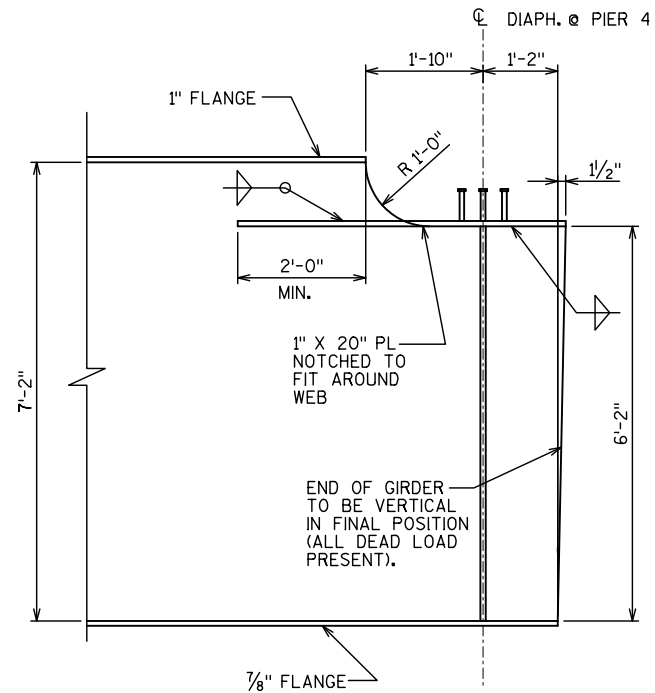


SHEAR STUD SPACING

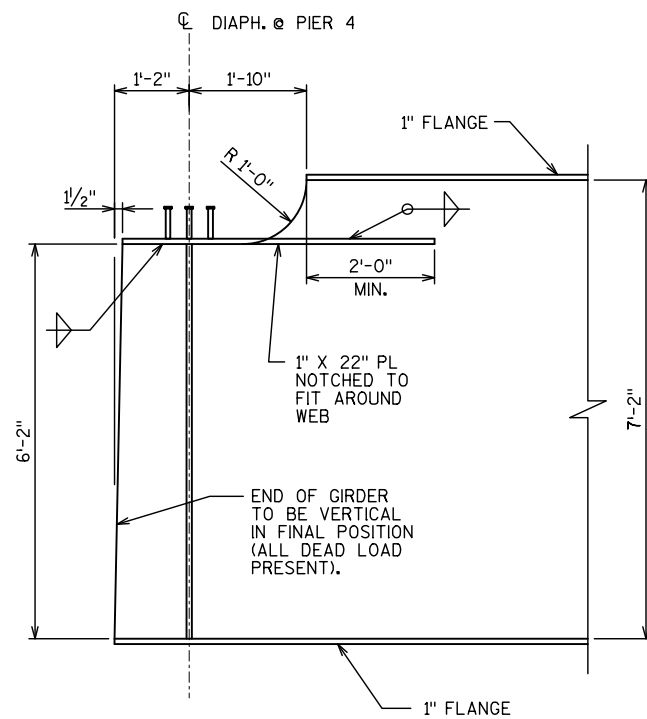
NO.		DATE		REVISION				BY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION									
STRUCTURE B-5-658									
				DRAWN BY		ZMG		PLANS CK'D. MAD	
MISCELLANEOUS GIRDER DETAILS						SHEET 35 OF 50			



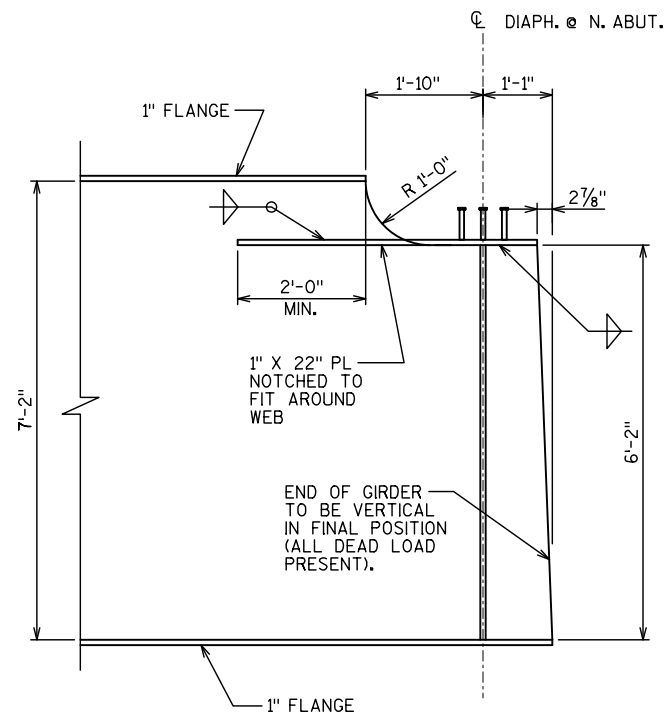
UNIT 1 SPAN 1



UNIT 1 SPAN 4



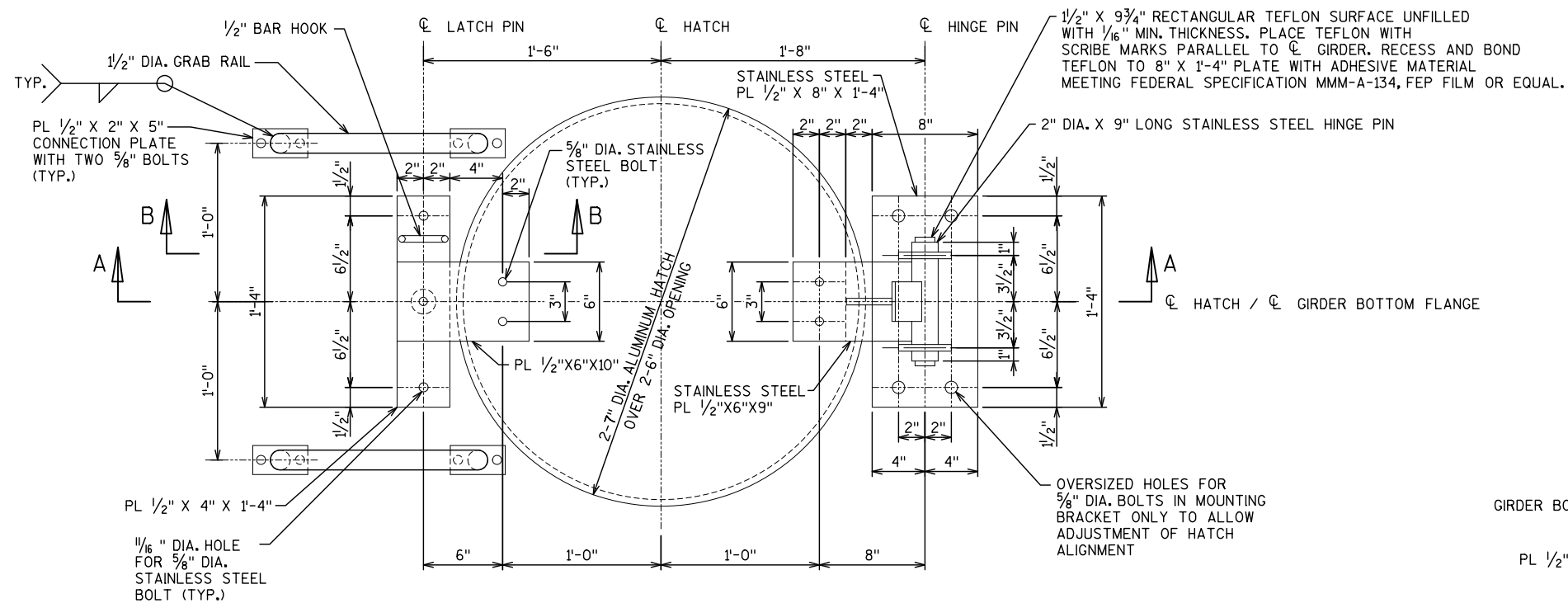
UNIT 2 SPAN 5



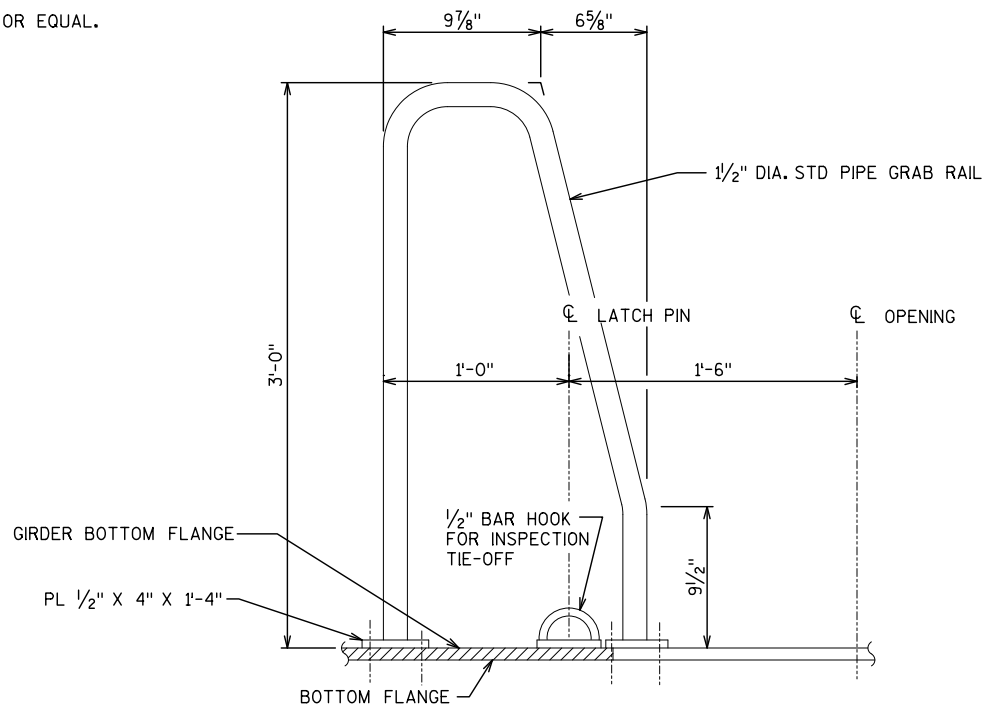
UNIT 2 SPAN 10

NOTE:
GIRDER FLANGES ARE NOT
HORIZONTAL, BUT PARALLEL TO
VERTICAL CURVE. DIAPHRAGMS ARE
PERPENDICULAR TO GIRDERS
FLANGES. ONLY ENDS OF GIRDER
WEBS ARE VERTICAL.

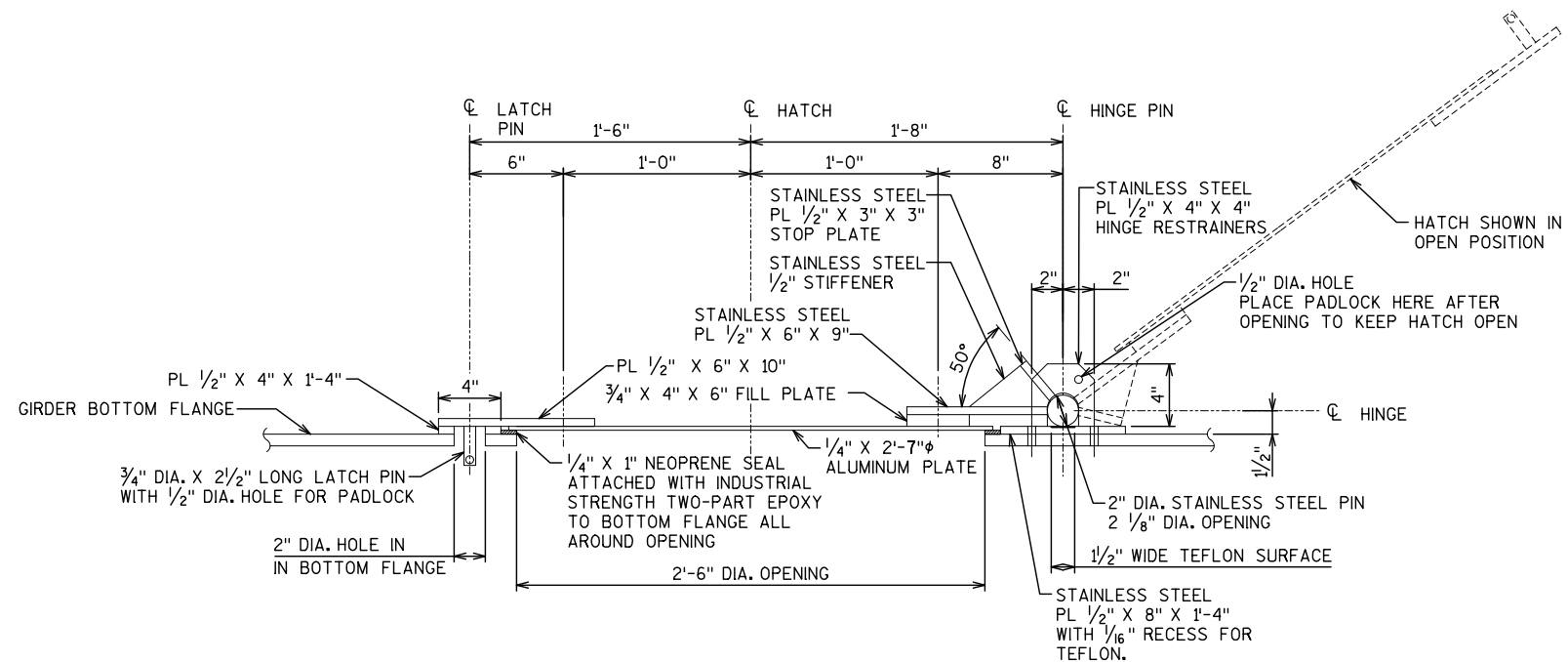
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY ZMG		PLANS CK'D. MAD	
MISCELLANEOUS GIRDER DETAILS SHEET 2		SHEET 36 OF 50	



PLAN



SECTION B-B



SECTION A-A

NOTES:

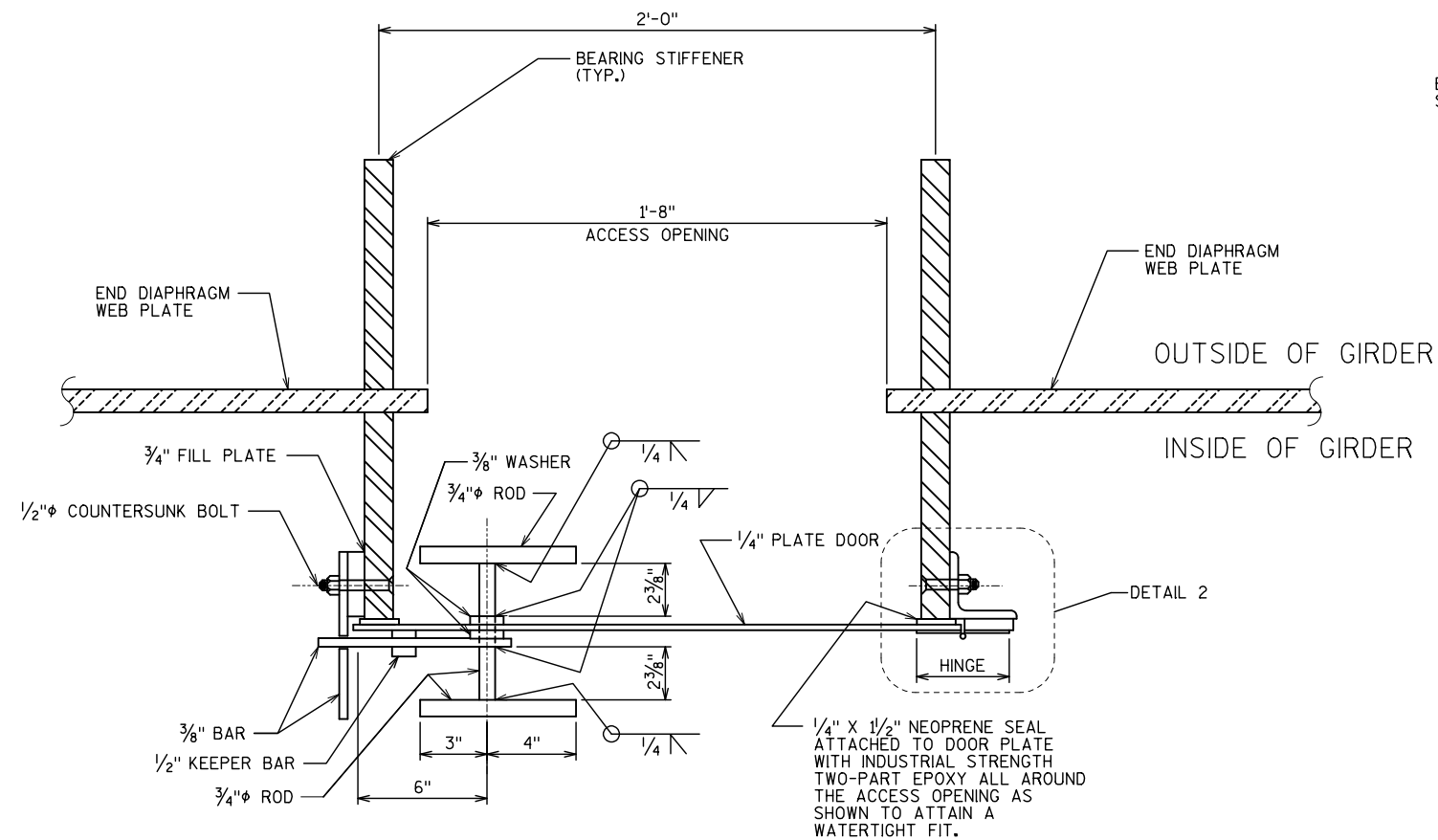
ALL BOLTS SHOWN ARE 5/8" DIAMETER STAINLESS STEEL.

FOUR ACCESS HATCHES REQUIRED. SEE GIRDER PLAN AND ELEVATION SHEETS FOR HATCH LOCATIONS IN SPANS 4 AND 9.

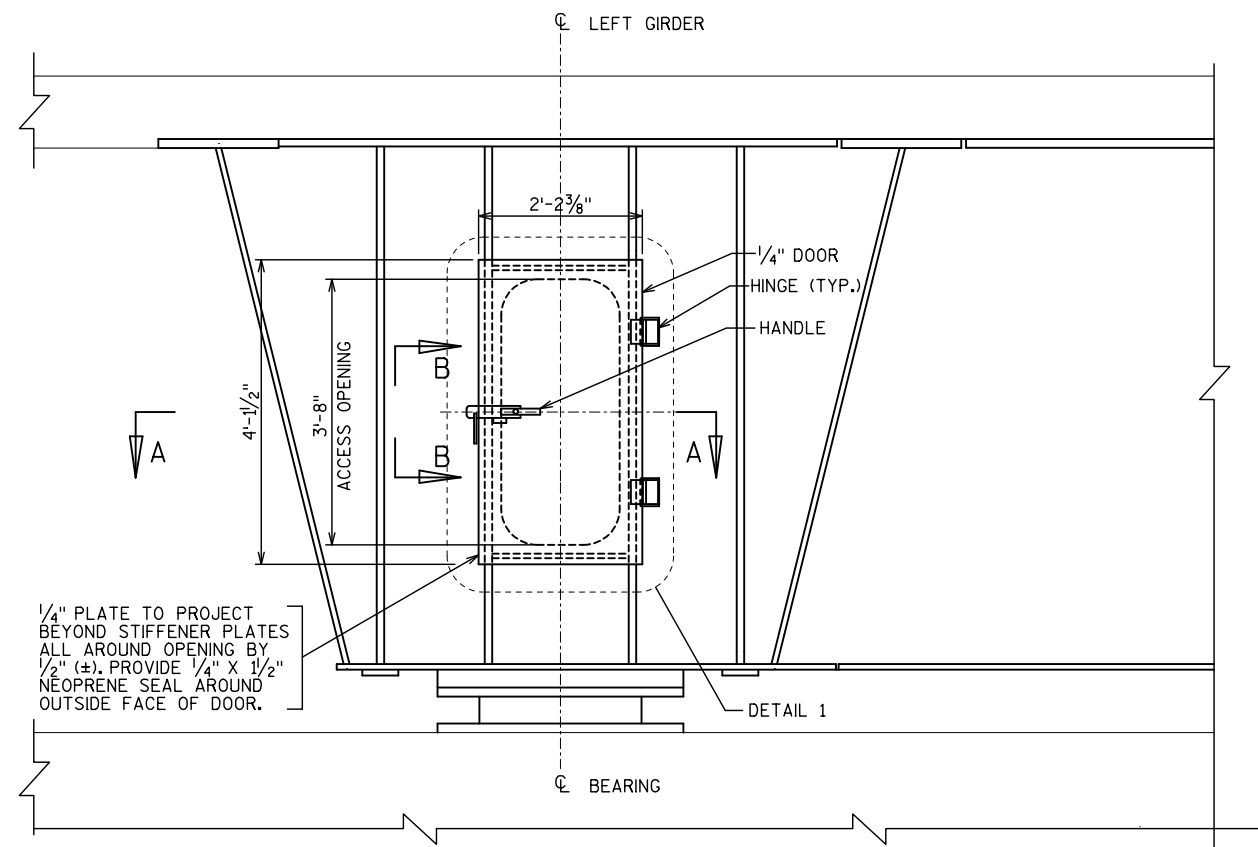
STEEL FOR HATCH IS A709 GRADE 50 UNLESS OTHERWISE NOTED.

ALL MATERIALS SHOWN WILL BE PAID FOR AT THE UNIT PRICE BID FOR "FABRICATED STRUCTURAL STEEL HS".

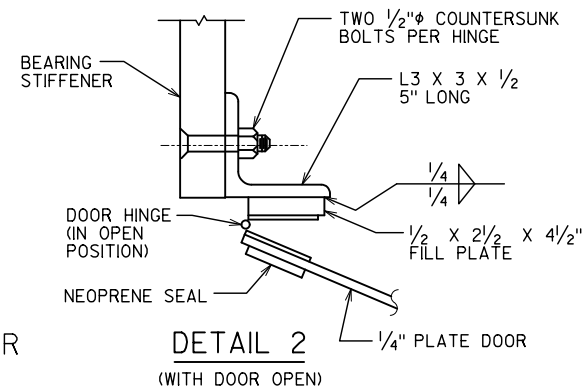
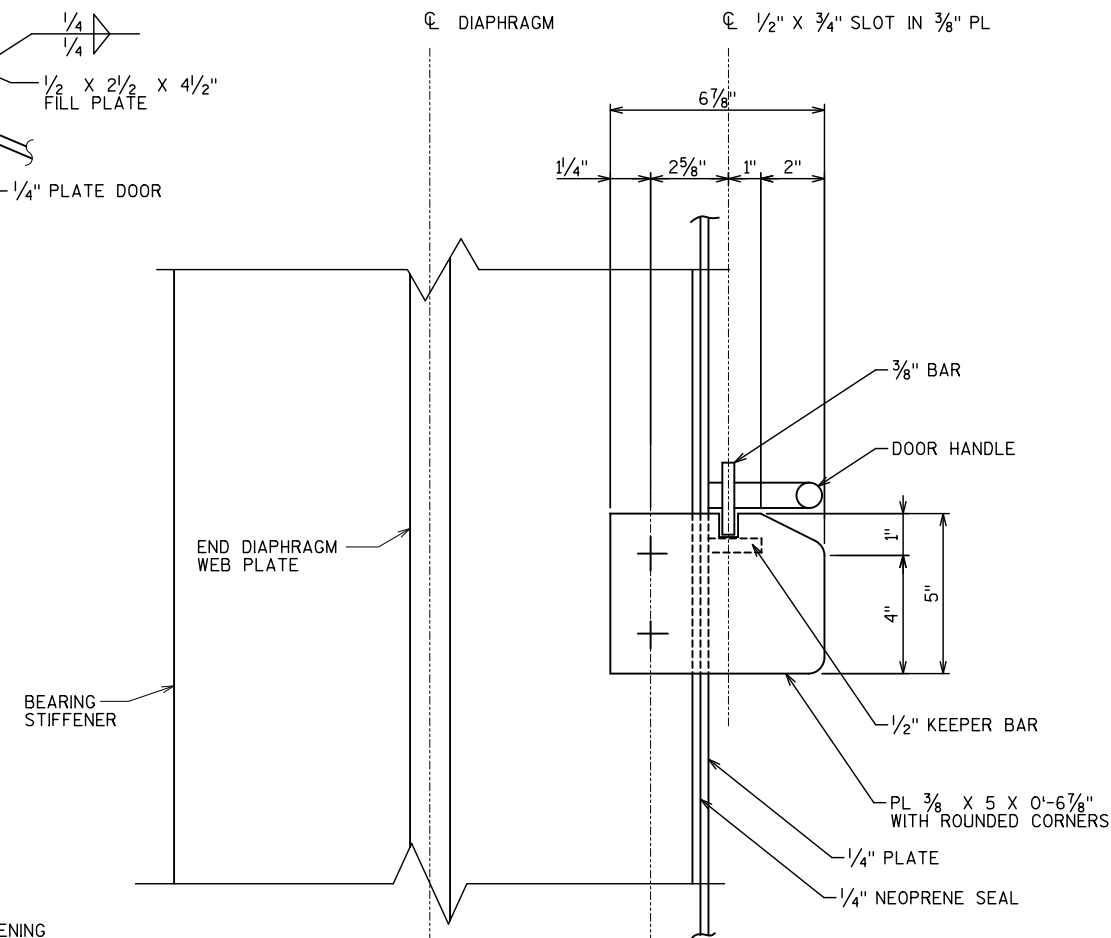
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY ZMG		PLANS CK'D. MAD	
ACCESS HATCH DETAILS			SHEET 37 OF 50



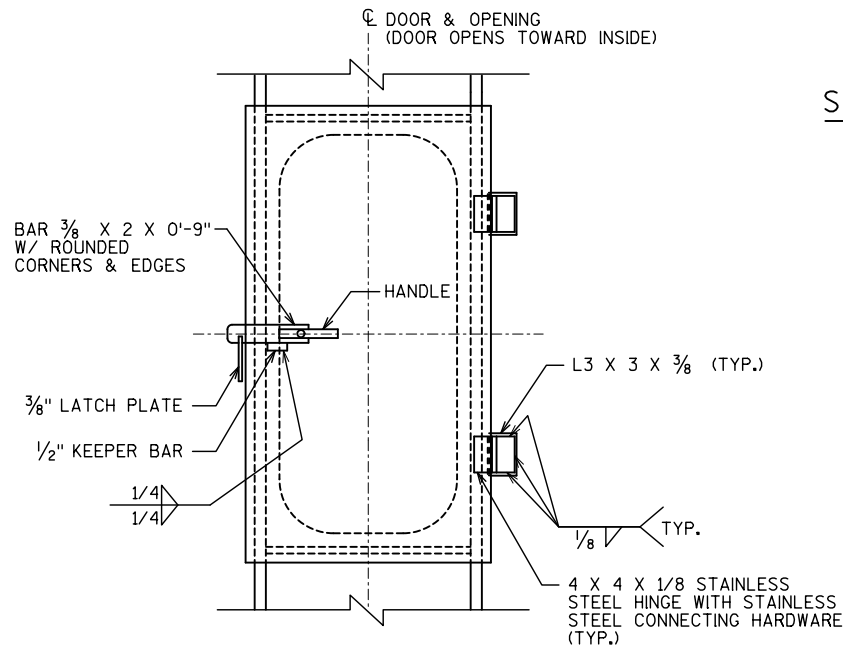
SECTION A-A



ELEVATION

DETAIL 2
(WITH DOOR OPEN)

SECTION B-B



DETAIL 1

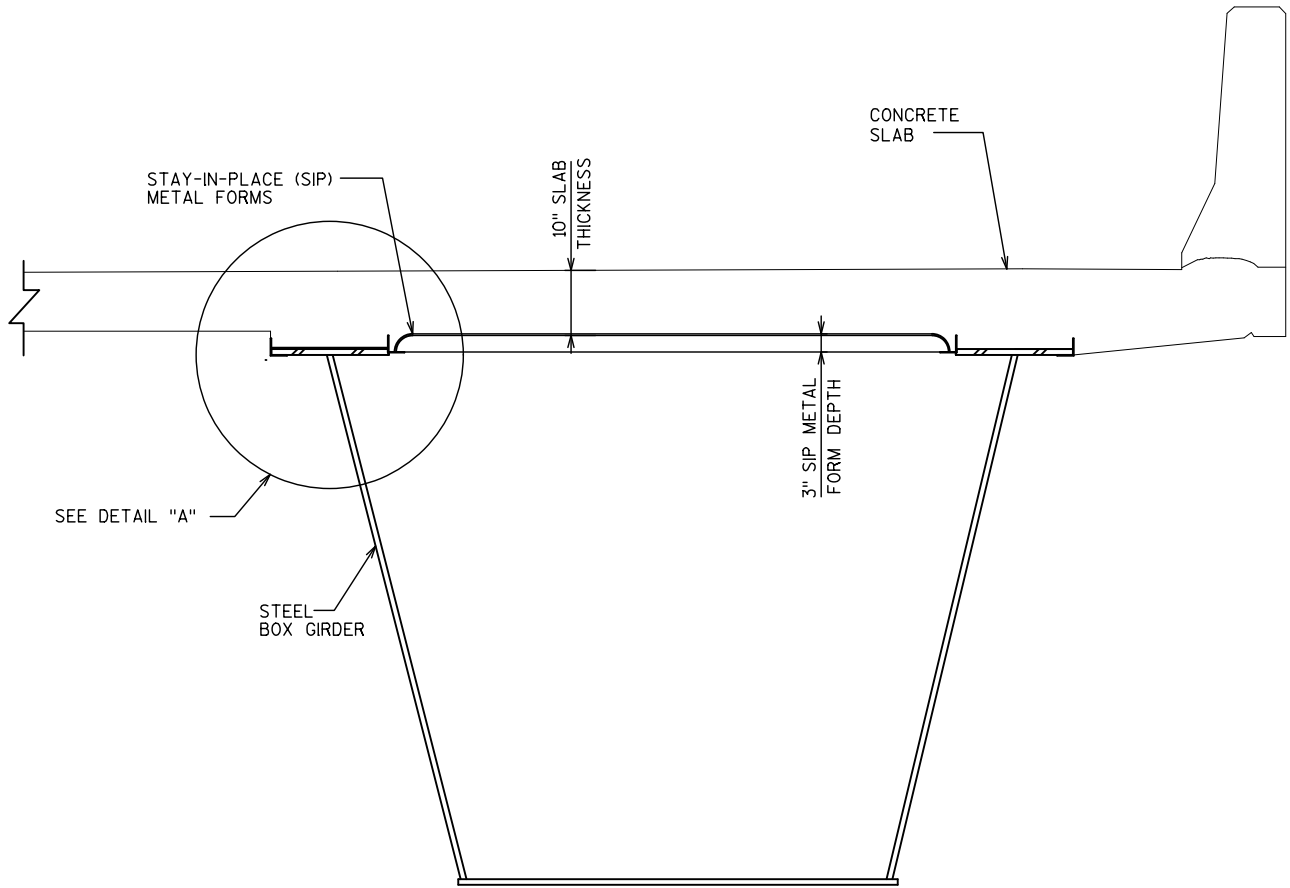
NOTES:

4 DOORS REQUIRED AT PIER 4.

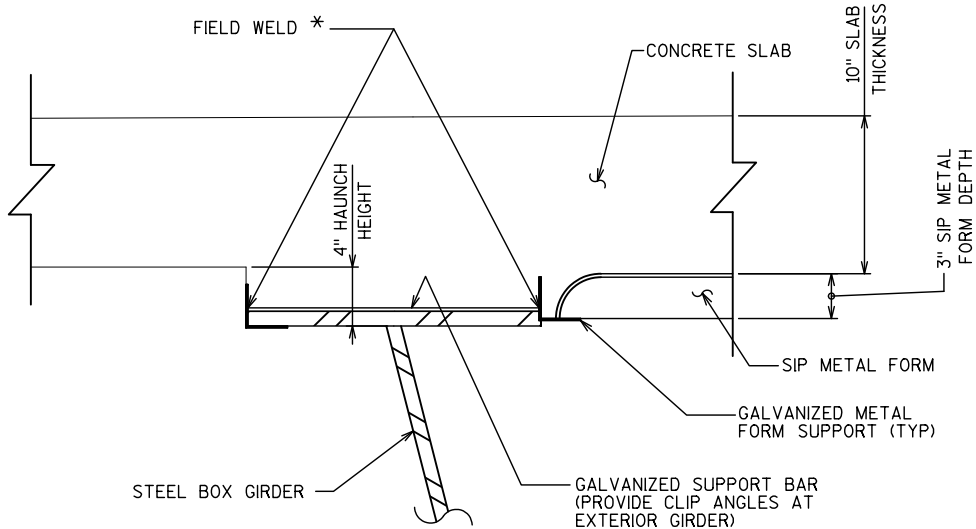
DOORS OPEN TOWARDS THE INSIDE OF THE BOX GIRDERS.

THE COST OF ACCESS DOOR AND ITS ATTACHMENT IS INCLUDED IN THE COST OF "FABRICATED STRUCTURAL STEEL HS".

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY ZMG		PLANS CK'D. NPP	
ACCESS DOOR DETAILS			SHEET 38 OF 50

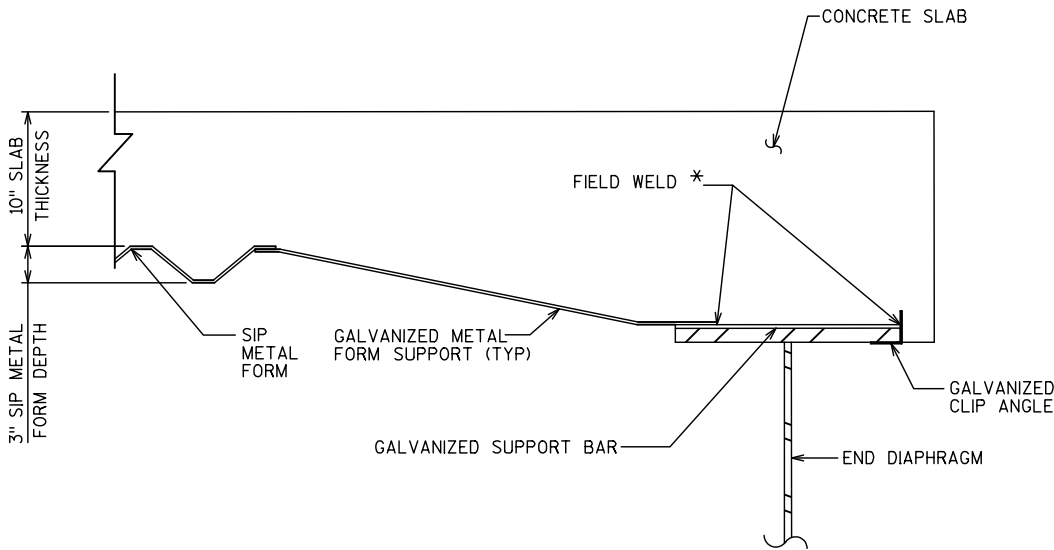


PARTIAL SECTION THROUGH SUPERSTRUCTURE
(SHOWING TYPICAL DETAILS AND NOTES FOR SIP METAL FORMS)



DETAIL "A"

* DO NOT WELD TO NOR PERMIT WELD SPATTER ON SUPPORTING STEEL GIRDER, DIAPHRAGMS, BRACING ETC. ELLECTRICAL GROUNDING TO STRUCTURAL STEEL IS PROHIBITED. SEE SPECIFICATIONS FOR FIELD WELDING OF SIP FORMS IN PLACE AND PAINTING OF THE TOP FLANGE.



PARTIAL SECTION THROUGH END OF SPAN
(INTERIOR OF BOXES SHOWN ONLY)

NOTES:

STAY-IN-PLACE (SIP) FORM DETAILS ARE SHOWN FOR REFERENCE ONLY. SIP FORMS, GALVANIZED SUPPORT BARS, FORM SUPPORTS, AND CLIP ANGLES ARE NOT FURNISHED AS PART OF THIS CONTRACT.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY ZMG		PLANS CK'D. NPP	
SUPERSTRUCTURE DETAILS		SHEET 39 OF 50	

NOTES:

POSITIVE DEFLECTIONS ARE DOWNWARD.

POSITIVE CAMBER IS UPWARD RELATIVE TO A CHORD LINE JOINING THE FIELD SECTION ENDPOINTS.

TES ELEVATIONS ARE TO TOP OF STEEL (SPlice AND COVER PLATE THICKNESS, IF APPLICABLE, ARE ACCOUNTED FOR) AND THEY ARE FOR THE MATERIAL AS ERECTED. THE ELEVATION OF THE TOP STEEL AT THE FIELD SPlice POINTS SHALL BE CHECKED, AND CORRECTED, IF POSSIBLE, AFTER ERECTION AND BEFORE PERMANENTLY BOLTING THE DIAPHRAGMS IN PLACE.

BECAUSE VERTICAL PROFILE AND DEFLECTIONS ARE EXAGGERATED TO DIFFERENT DEGREES, THE CAMBERS SHOWN ON THIS DIAGRAM ARE SCHEMATIC ONLY.

SPECIFICALLY COMPARING RELATIVE CAMBER MAGNITUDES BETWEEN FIELD SECTIONS MAY BE MISLEADING.

CAMBERS ACCOUNT FOR PERMANENT FORMWORK WEIGHT OF 10.0 PSF INSIDE EACH GIRDER PLUS 13.5 PSF FOR ADDITIONAL CONCRETE IN RIBS OF PERMANENT FORMWORK. THE CONTRACTOR MAY NEED TO REVISE THE CAMBERS IF THE PERMANENT FORMWORK IS USED DIFFERS FROM THAT SHOWN ON THE PLANS.

ALL TABULATED VALUES ARE IN DECIMALS OF A FOOT.

TOP OF ERECTED STEEL ELEVATIONS AT SUPPORTS AND FIELD SPICES SHALL BE AFTER ERECTION IS COMPLETE AND BEFORE BOLTED CONNECTIONS ARE FINALLY TORQUED.

IF SURVEYED ELEVATIONS DIFFER FROM THOSE EXPECTED BY MORE THAN 0.02 FT (1/4") AT SUPPORTS OR 0.083 FT (1") AT FIELD SPICES, CORRECTIVE MEASURES SHALL BE TAKEN BEFORE FURTHER CONSTRUCTION OPERATIONS MAY PROCEED.

CAMBER DIAGRAMS HAVE BEEN DEVELOPED ASSUMING A CONSTANT 4" HAUNCH HEIGHT. MEASURED FROM THE UNDERSIDE OF THE TOP FLANGE (TOP OF WEB) TO THE UNDERSIDE OF THE DECK (TOP OF STAY-IN-PLACE METAL FORMS).

LEGEND:

P1-2 INTERMEDIATE ELEVATION POINT AT PANEL POINTS.

IN THIS EXAMPLE, 'I' IS THE FIELD SECTION NUMBER AND '2' IS THE PANEL NUMBER WITHIN THIS FIELD SECTION.

TABULATED ELEVATIONS

- FTW FINISHED ELEVATION AT TOP OF WEB.
- FG FINISHED ELEVATION AT TOP OF DECK SLAB.
- TES TOP OF ERECTED STEEL ELEVATION.
= ZW + PL - SW
- ZW TOP OF ERECTED WEB ELEVATION NEGLECTING ALL DEFLECTIONS
= FG + SW + DL1 + DL2 - DK
- CW ELEVATION OF CHORD LINES JOINING TOP OF WEB ELEVATION 'ZW' AT FIELD SPICES AND END SUPPORTS.
- BLK BLOCKING HEIGHT CORRESPONDING TO THE ERECTED STEEL CONDITION NEGLECTING ALL DEFLECTIONS.

TABULATED DEFLECTIONS

- SW SELF -WEIGHT OF STEEL GIRDERS, INCLUDING ALL DIAPHRAGMS, STIFFENERS, BRACING, AND PERMANENT METAL FORMS.
- DL1 CONCRETE DECK SLAB AND HAUNCHES APPLIED TO BARE STEEL SECTION.
- DL2 PARAPETS AND WEARING SURFACE APPLIED TO COMPOSITE SECTION.

CALCULATED VALUES

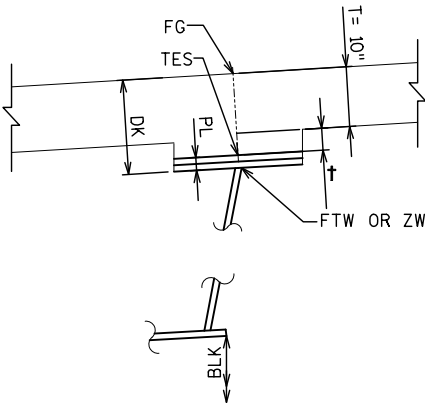
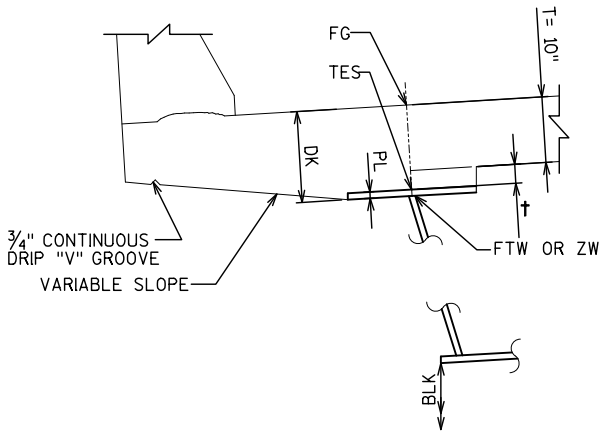
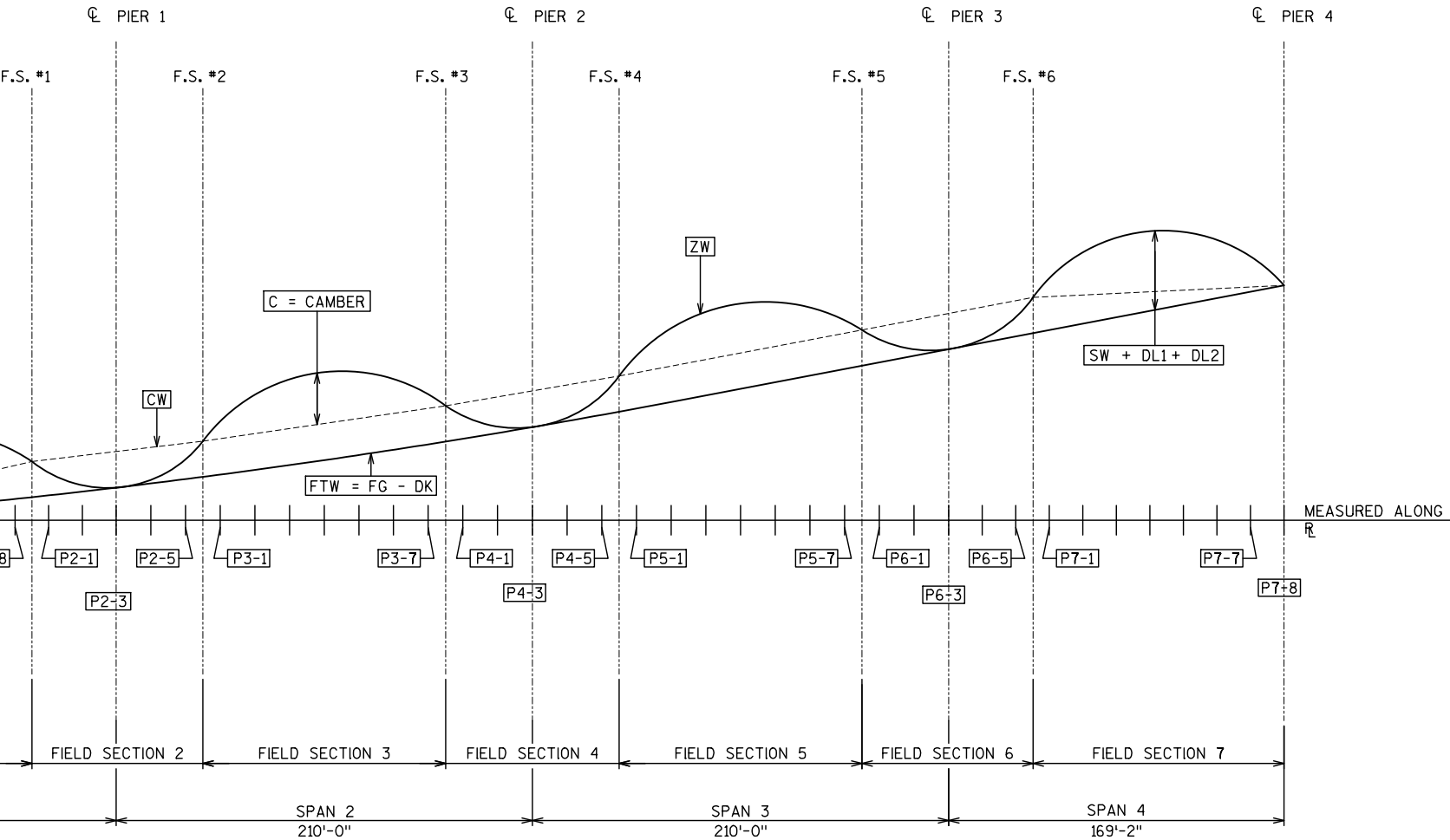
- PL =THICKNESS OF TOP FLANGE PLUS ANY FILLER AND SPlice PLATES
- DK =DECK ASSEMBLY THICKNESS FROM TOP OF WEB TO FINISHED GRADE
- C =CAMBER= ZW - CW

HAUNCH NOTE:

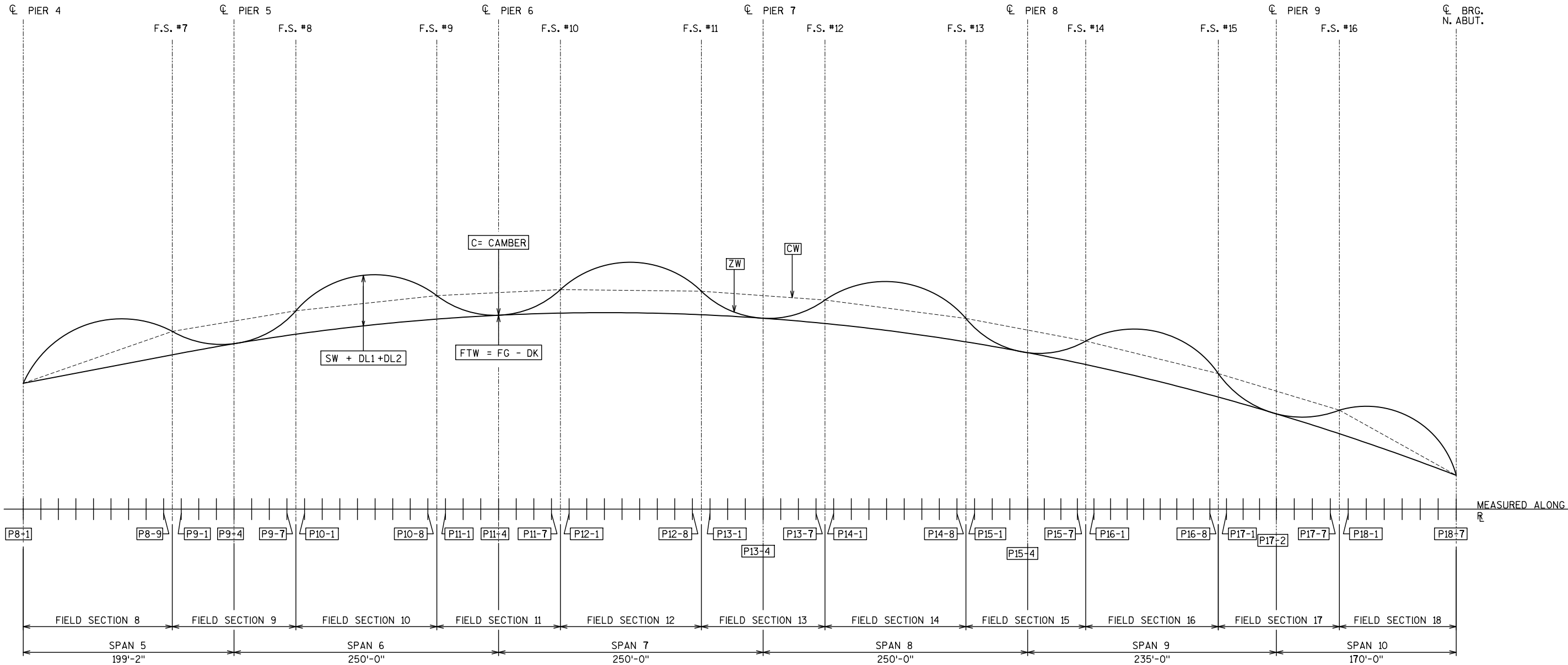
† =HAUNCH HEIGHT AT CENTERLINE OF GIRDER.

TO DETERMINE "†" AFTER ALL STRUCURAL STEEL HAS BEEN ERECTED, ELEVATIONS OF THE TOP FLANGES, TOP OF SPlice PLATES, OR TOP OF COVER PLATES, WHICHEVER APPLIES, SHALL BE TAKEN.

- TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF STEEL ELEV. AFTER PLACEMENT
- + CONC. ONLY DEFLECTIONS (DOWNWARD DEFLECTION IS POSITIVE, UPWARD DEFLECTION IS NEGATIVE.)
- SLAB THICKNESS (10")
- = "†" VALUE FOR SETTING HAUNCH



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY ZMG		PLANS CK'D. MAD	
CAMBER DIAGRAM UNIT 1		SHEET 40 OF 50	



LEGEND:
FOR LEGEND SEE CAMBER DIAGRAM UNIT 1 SHEET.
NOTES:
FOR NOTES SEE CAMBER DIAGRAM UNIT 1 SHEET.
HAUNCH NOTES:
FOR HAUNCH NOTES SEE CAMBER DIAGRAM UNIT 1 SHEET.

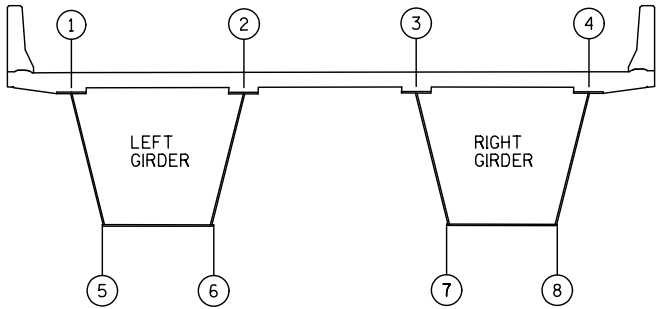
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
		DRAWN BY ZMG	PLANS CK'D. MAD
CAMBER DIAGRAM UNIT 2		SHEET 41 OF 50	

FIELD SECTION 1

HORIZ. LOC.	VALUE	POSITION AND STATION								
		W. ABUT. 813+34.90	P1- 2 813+51.90	P1- 3 813+68.90	P1- 4 813+85.90	P1- 5 814+02.90	P1- 6 814+19.90	P1- 7 814+36.90	P1- 8 814+53.90	FS #1 814+62.40
CAMBER DATA										
1 LEFT GIRDER	FG	633.57	633.68	633.79	633.92	634.07	634.23	634.40	634.58	634.67
	TES	632.49	632.67	632.84	633.02	633.19	633.34	633.48	633.61	633.72
	ZW	632.40	632.61	632.81	633.00	633.17	633.32	633.45	633.56	633.62
	CW	632.40	632.57	632.73	632.89	633.05	633.21	633.37	633.53	633.62
	SW	0.00	0.03	0.05	0.06	0.07	0.06	0.05	0.04	0.03
LEFT WEB	DL1	0.00	0.07	0.13	0.17	0.18	0.17	0.14	0.10	0.08
	DL2	0.00	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01
	C	0.00	0.04	0.08	0.11	0.12	0.11	0.07	0.02	0.00
2 LEFT GIRDER	FG	634.02	634.17	634.33	634.49	634.64	634.80	634.97	635.15	635.24
	TES	632.94	633.17	633.39	633.59	633.76	633.92	634.05	634.18	634.29
	ZW	632.85	633.11	633.36	633.57	633.75	633.90	634.02	634.13	634.19
	CW	632.85	633.03	633.21	633.39	633.57	633.74	633.92	634.10	634.19
	SW	0	0.03	0.05	0.06	0.07	0.07	0.05	0.04	0.03
RIGHT WEB	DL1	0	0.07	0.13	0.17	0.18	0.18	0.15	0.10	0.08
	DL2	0	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01
	C	0.00	0.08	0.15	0.19	0.18	0.15	0.10	0.03	0.00
3 RIGHT GIRDER	FG	634.47	634.67	634.87	635.06	635.21	635.37	635.54	635.72	635.81
	TES	633.39	633.66	633.94	634.17	634.34	634.49	634.62	634.75	634.87
	ZW	633.30	633.61	633.90	634.15	634.33	634.48	634.60	634.71	634.76
	CW	633.30	633.50	633.69	633.89	634.08	634.28	634.47	634.66	634.76
	SW	0	0.03	0.05	0.07	0.07	0.07	0.06	0.04	0.03
LEFT WEB	DL1	0	0.07	0.13	0.18	0.19	0.18	0.15	0.10	0.08
	DL2	0	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01
	C	0.00	0.11	0.21	0.27	0.24	0.20	0.13	0.04	0.00
4 RIGHT GIRDER	FG	634.92	635.16	635.41	635.63	635.78	635.94	636.11	636.29	636.38
	TES	633.83	634.16	634.48	634.74	634.91	635.07	635.20	635.32	635.44
	ZW	633.75	634.10	634.45	634.73	634.90	635.05	635.17	635.28	635.33
	CW	633.75	633.96	634.17	634.38	634.60	634.81	635.02	635.23	635.33
	SW	0	0.03	0.05	0.07	0.07	0.07	0.06	0.04	0.03
RIGHT WEB	DL1	0	0.07	0.14	0.18	0.19	0.19	0.15	0.11	0.08
	DL2	0	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.01
	C	0.00	0.14	0.28	0.34	0.31	0.25	0.15	0.05	0.00
BLOCKING HEIGHTS										
5	BLK	0								1.21
6		0.30								1.63
7		0.90								2.36
8		1.19								2.78

FIELD SECTION 2

HORIZ. LOC.	VALUE	POSITION AND STATION							
		FS #1	P2-1	P2-2	PIER 1	P2-4	P2-5	FS #2	
		814+62.40	814+70.90	814+87.90	815+04.90	815+22.40	815+39.90	815+48.65	
CAMBER DATA									
1	FG	634.67	634.76	634.95	635.15	635.36	635.58	635.70	
	TES	633.72	633.75	633.95	634.13	634.36	634.57	634.75	
	ZW	633.62	633.67	633.81	633.98	634.23	634.49	634.64	
	CW	633.62	633.72	633.92	634.12	634.33	634.54	634.64	
	SW	0.03	0.02	0.01	0.00	0.01	0.02	0.03	
LEFT WEB	DL1	0.08	0.05	0.02	0.00	0.02	0.05	0.07	
	DL2	0.01	0.01	0.00	0.00	0.00	0.01	0.01	
	C	0.00	-0.04	-0.11	-0.14	-0.10	-0.04	0.00	
2	FG	635.24	635.33	635.52	635.72	635.93	636.15	636.27	
	TES	634.29	634.32	634.52	634.70	634.94	635.14	635.32	
	ZW	634.19	634.25	634.38	634.55	634.80	635.06	635.21	
	CW	634.19	634.29	634.49	634.69	634.90	635.11	635.21	
	SW	0.03	0.02	0.01	0.00	0.01	0.02	0.03	
RIGHT WEB	DL1	0.08	0.05	0.02	0.00	0.02	0.05	0.07	
	DL2	0.01	0.01	0.00	0.00	0.00	0.01	0.01	
	C	0.00	-0.04	-0.11	-0.14	-0.10	-0.04	0.00	
3	FG	635.81	635.90	636.09	636.29	636.50	636.72	636.84	
	TES	634.87	634.89	635.09	635.27	635.51	635.71	635.89	
	ZW	634.76	634.82	634.95	635.12	635.37	635.64	635.78	
	CW	634.76	634.86	635.06	635.27	635.47	635.68	635.78	
	SW	0.03	0.02	0.01	0.00	0.01	0.02	0.03	
LEFT WEB	DL1	0.08	0.06	0.02	0.00	0.02	0.05	0.08	
	DL2	0.01	0.01	0.00	0.00	0.00	0.01	0.01	
	C	0.00	-0.04	-0.11	-0.14	-0.11	-0.04	0.00	
4	FG	636.38	636.47	636.66	636.86	637.07	637.29	637.41	
	TES	635.44	635.46	635.66	635.84	636.08	636.28	636.46	
	ZW	635.33	635.39	635.52	635.69	635.94	636.21	636.36	
	CW	635.33	635.44	635.64	635.84	636.05	636.25	636.36	
	SW	0.03	0.02	0.01	0.00	0.01	0.02	0.03	
RIGHT WEB	DL1	0.08	0.06	0.02	0.00	0.02	0.05	0.08	
	DL2	0.01	0.01	0.00	0.00	0.00	0.01	0.01	
	C	0.00	-0.04	-0.11	-0.14	-0.11	-0.05	0.00	
BLOCKING HEIGHTS									
5	BLK	1.21			1.58			2.24	
6		1.63			2.00			2.65	
7		2.36			2.72			3.38	
8		2.78			3.14			3.80	



HORIZONTAL LOCATION KEY
LOOKING UPSTATION

LEGEND:
FOR LEGEND SEE CAMBER DIAGRAM UNIT 1
NOTES:
FOR NOTES SEE CAMBER DIAGRAM UNIT 1

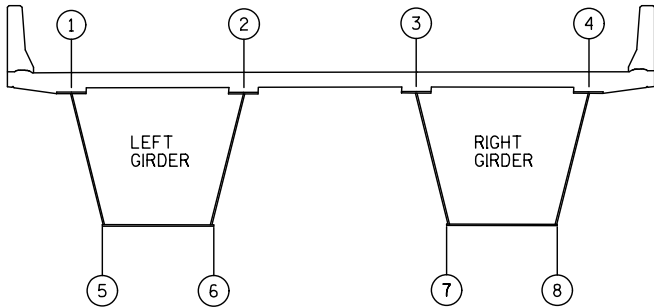
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY		ZMG	PLANS CK'D. MAD
CAMBER DATA: FIELD SECTION #1 & #2			SHEET 42 OF 50

FIELD SECTION 3

HORIZ. LOC.	VALUE	POSITION AND STATION									
		FS #2	P3-1	P3-2	P3-3	P3-4	P3-5	P3-6	P3-7	FS #3	
		815+48.65	815+57.40	815+74.90	815+92.40	816+09.90	816+27.40	816+44.90	816+62.40	816+71.15	
CAMBER DATA											
1	FG	635.70	635.81	636.05	636.29	636.54	636.80	637.07	637.34	637.48	
	TES	634.75	634.84	635.12	635.37	635.66	635.91	636.14	636.37	636.54	
	ZW	634.64	634.79	635.09	635.34	635.65	635.89	636.11	636.32	636.43	
	CW	634.64	634.77	635.02	635.28	635.53	635.79	636.05	636.30	636.43	
LEFT GIRDER	SW	0.03	0.04	0.05	0.06	0.07	0.07	0.05	0.04	0.03	
	DL1	0.07	0.10	0.14	0.14	0.18	0.17	0.14	0.10	0.07	
	DL2	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.01	
	C	0.00	0.02	0.07	0.06	0.11	0.10	0.07	0.02	0.00	
2	FG	636.27	636.38	636.62	636.86	637.11	637.37	637.64	637.91	638.05	
	TES	635.32	635.41	635.69	635.94	636.24	636.48	636.72	636.94	636.97	
	ZW	635.21	635.36	635.66	635.92	636.22	636.47	636.69	636.90	637.00	
	CW	635.21	635.34	635.60	635.85	636.11	636.36	636.62	636.87	637.00	
LEFT GIRDER	SW	0.03	0.04	0.05	0.06	0.07	0.07	0.06	0.04	0.03	
	DL1	0.07	0.10	0.14	0.15	0.18	0.17	0.14	0.10	0.08	
	DL2	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.01	
	C	0.00	0.02	0.07	0.07	0.12	0.10	0.07	0.02	0.00	
3	FG	636.84	636.95	637.19	637.43	637.68	637.94	638.21	638.48	638.62	
	TES	635.89	635.98	636.26	636.55	636.81	637.06	637.29	637.51	637.54	
	ZW	635.78	635.94	636.24	636.53	636.80	637.04	637.26	637.47	637.58	
	CW	635.78	635.91	636.17	636.42	636.68	636.94	637.19	637.45	637.58	
RIGHT GIRDER	SW	0.03	0.04	0.06	0.07	0.07	0.07	0.06	0.04	0.03	
	DL1	0.08	0.10	0.15	0.18	0.19	0.18	0.15	0.10	0.08	
	DL2	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	
	C	0.00	0.02	0.07	0.11	0.12	0.11	0.07	0.02	0.00	
4	FG	637.41	637.52	637.76	638.00	638.25	638.51	638.78	639.05	639.19	
	TES	636.46	636.55	636.84	637.12	637.39	637.63	637.86	638.09	638.12	
	ZW	636.35	636.51	636.81	637.11	637.38	637.62	637.84	638.04	638.15	
	CW	636.35	636.48	636.74	636.99	637.25	637.51	637.76	638.02	638.15	
RIGHT GIRDER	SW	0.03	0.04	0.06	0.07	0.07	0.07	0.06	0.04	0.03	
	DL1	0.08	0.10	0.15	0.18	0.19	0.18	0.15	0.10	0.08	
	DL2	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.01	
	C	0.00	0.03	0.08	0.11	0.13	0.11	0.07	0.02	0.00	
BLOCKING HEIGHTS											
5	BLK	2.24								4.02	
6		2.65								4.44	
7		3.38								5.17	
8		3.80								5.59	

FIELD SECTION 4

HORIZ. LOC.	VALUE	POSITION AND STATION							
		FS #3	P4-1	P4-2	PIER 2	P4-4	P4-5	FS #4	
		816+71.15	816+79.90	816+97.40	817+14.90	817+32.40	817+49.90	817+58.65	
CAMBER DATA									
1	FG	637.48	637.62	637.92	638.21	638.52	638.83	638.99	
	TES	636.54	636.61	636.91	637.19	637.51	637.82	638.05	
	ZW	636.43	636.54	636.77	637.05	637.37	637.74	637.94	
	CW	636.43	636.58	636.88	637.18	637.49	637.79	637.94	
LEFT GIRDER	SW	0.03	0.02	0.01	0.00	0.01	0.02	0.03	
	DL1	0.07	0.05	0.02	0.00	0.01	0.05	0.07	
	DL2	0.01	0.01	0.00	0.00	0.00	0.01	0.01	
	C	0.00	-0.04	-0.11	-0.14	-0.11	-0.04	0.00	
2	FG	638.05	638.19	638.49	638.78	639.09	639.40	639.56	
	TES	637.11	637.18	637.48	637.76	638.09	638.39	638.62	
	ZW	637.00	637.11	637.34	637.62	637.94	638.32	638.51	
	CW	637.00	637.15	637.45	637.76	638.06	638.36	638.51	
LEFT GIRDER	SW	0.03	0.02	0.01	0.00	0.01	0.02	0.03	
	DL1	0.08	0.05	0.02	0.00	0.01	0.05	0.08	
	DL2	0.01	0.01	0.00	0.00	0.00	0.01	0.01	
	C	0.00	-0.04	-0.11	-0.14	-0.11	-0.04	0.00	
3	FG	638.62	638.76	639.06	639.35	639.66	639.97	640.13	
	TES	637.68	637.75	638.05	638.33	638.66	638.96	639.19	
	ZW	637.58	637.68	637.92	638.19	638.52	638.89	639.08	
	CW	637.58	637.73	638.03	638.33	638.63	638.93	639.08	
RIGHT GIRDER	SW	0.03	0.02	0.01	0.00	0.01	0.02	0.03	
	DL1	0.08	0.06	0.02	0.00	0.02	0.05	0.08	
	DL2	0.01	0.01	0.00	0.00	0.00	0.01	0.01	
	C	0.00	-0.04	-0.11	-0.14	-0.12	-0.04	0.00	
4	FG	639.19	639.33	639.63	639.92	640.23	640.54	640.70	
	TES	638.25	638.33	638.62	638.90	639.23	639.53	639.76	
	ZW	638.15	638.25	638.49	638.76	639.09	639.46	639.66	
	CW	638.15	638.30	638.60	638.90	639.20	639.51	639.66	
RIGHT GIRDER	SW	0.03	0.02	0.01	0.00	0.01	0.02	0.03	
	DL1	0.08	0.06	0.02	0.00	0.02	0.06	0.08	
	DL2	0.01	0.01	0.00	0.00	0.00	0.01	0.01	
	C	0.00	-0.04	-0.11	-0.15	-0.12	-0.05	0.00	
BLOCKING HEIGHTS									
5	BLK	4.02			4.64			5.53	
6		4.44			5.06			5.95	
7		5.17			5.78			6.68	
8		5.59			6.20			7.10	



HORIZONTAL LOCATION KEY
LOOKING UPSTATION

LEGEND:
FOR LEGEND SEE CAMBER DIAGRAM UNIT 1
NOTES:
FOR NOTES SEE CAMBER DIAGRAM UNIT 1

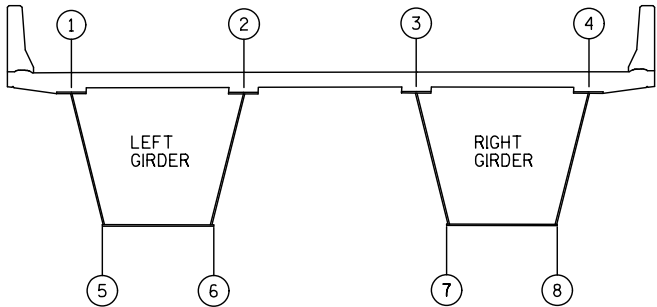
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY ZMG		PLANS CK'D. MAD	
CAMBER DATA: FIELD SECTION #3 & #4			SHEET 43 OF 50

FIELD SECTION 5

HORIZ. LOC.	VALUE	POSITION AND STATION								
		FS #4	P5-1	P5-2	P5-3	P5-4	P5-5	P5-6	P5-7	FS #5
		817+58.65	817+67.40	817+84.90	818+02.40	818+19.90	818+37.40	818+54.90	818+72.40	818+81.15
CAMBER DATA										
1	FG	638.99	639.15	639.48	639.82	640.15	640.48	640.82	641.15	641.32
	TES	638.05	638.18	638.56	638.93	639.27	639.59	639.89	640.18	640.35
	ZW	637.94	638.13	638.53	638.91	639.26	639.57	639.86	640.13	640.24
	CW	637.94	638.10	638.43	638.76	639.09	639.42	639.75	640.08	640.24
	SW	0.03	0.04	0.05	0.06	0.07	0.06	0.05	0.04	0.02
LEFT GIRDER	DL1	0.07	0.10	0.14	0.17	0.18	0.17	0.14	0.10	0.06
	DL2	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.01
	C	0.00	0.03	0.10	0.15	0.17	0.15	0.11	0.05	0.00
2	FG	639.56	639.72	640.05	640.39	640.72	641.05	641.39	641.72	641.89
	TES	638.62	638.75	639.13	639.50	639.85	640.17	640.47	640.75	640.79
	ZW	638.51	638.71	639.10	639.48	639.83	640.15	640.44	640.70	640.81
	CW	638.51	638.68	639.00	639.33	639.66	639.99	640.32	640.65	640.81
	SW	0.03	0.04	0.05	0.07	0.07	0.07	0.05	0.04	0.02
RIGHT GIRDER	DL1	0.08	0.10	0.15	0.18	0.19	0.18	0.14	0.10	0.06
	DL2	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.01
	C	0.00	0.03	0.10	0.15	0.17	0.16	0.12	0.05	0.00
3	FG	640.13	640.29	640.62	640.96	641.29	641.62	641.96	642.29	642.46
	TES	639.19	639.33	639.70	640.08	640.42	640.74	641.04	641.32	641.38
	ZW	639.08	639.28	639.68	640.06	640.41	640.73	641.01	641.28	641.41
	CW	639.08	639.25	639.58	639.91	640.24	640.58	640.91	641.24	641.41
	SW	0.03	0.04	0.06	0.07	0.07	0.07	0.06	0.04	0.03
RIGHT GIRDER	DL1	0.08	0.10	0.15	0.18	0.19	0.18	0.15	0.10	0.08
	DL2	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01
	C	0.00	0.03	0.10	0.15	0.16	0.15	0.10	0.04	0.00
4	FG	640.70	640.86	641.19	641.53	641.86	642.19	642.53	642.86	643.03
	TES	639.76	639.90	640.28	640.65	641.00	641.32	641.61	641.89	641.95
	ZW	639.65	639.86	640.26	640.64	640.99	641.30	641.59	641.85	641.98
	CW	639.65	639.82	640.15	640.48	640.82	641.15	641.48	641.81	641.98
	SW	0.03	0.04	0.06	0.07	0.07	0.07	0.06	0.04	0.03
RIGHT GIRDER	DL1	0.08	0.11	0.15	0.18	0.20	0.18	0.15	0.10	0.08
	DL2	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.01
	C	0.00	0.04	0.10	0.15	0.17	0.15	0.11	0.04	0.00
BLOCKING HEIGHTS										
5	BLK	5.53								7.84
6		5.95								8.26
7		6.68								9.00
8		7.10								9.43

FIELD SECTION 6

HORIZ. LOC.	VALUE	POSITION AND STATION						
		FS #5	P6-1	P6-2	PIER 3	P6-4	P6-5	FS #6
		818+81.15	818+89.90	819+07.40	819+24.90	819+41.82	819+58.73	819+67.19
CAMBER DATA								
1	FG	641.32	641.48	641.82	642.15	642.47	642.79	642.95
	TES	640.35	640.47	640.81	641.13	641.47	641.78	642.01
	ZW	640.24	640.39	640.67	640.98	641.33	641.71	641.90
	CW	640.24	640.41	640.75	641.08	641.41	641.74	641.90
	SW	0.02	0.02	0.01	0.00	0.01	0.02	0.03
LEFT GIRDER	DL1	0.06	0.05	0.01	0.00	0.02	0.05	0.08
	DL2	0.01	0.01	0.00	0.00	0.00	0.01	0.01
	C	0.00	-0.02	-0.08	-0.10	-0.08	-0.03	0.00
2	FG	641.89	642.05	642.39	642.72	643.04	643.36	643.52
	TES	640.93	641.04	641.38	641.70	642.04	642.35	642.58
	ZW	640.81	640.96	641.24	641.55	641.90	642.28	642.47
	CW	640.81	640.98	641.32	641.66	641.98	642.31	642.47
	SW	0.02	0.02	0.01	0.00	0.01	0.02	0.03
RIGHT GIRDER	DL1	0.06	0.05	0.01	0.00	0.02	0.06	0.08
	DL2	0.01	0.01	0.00	0.00	0.00	0.01	0.01
	C	0.00	-0.02	-0.08	-0.11	-0.08	-0.03	0.00
3	FG	642.46	642.62	642.96	643.29	643.61	643.93	644.09
	TES	641.51	641.61	641.95	642.27	642.61	642.92	643.15
	ZW	641.41	641.54	641.81	642.12	642.47	642.85	643.05
	CW	641.41	641.57	641.91	642.24	642.56	642.88	643.05
	SW	0.03	0.02	0.01	0.00	0.01	0.02	0.03
RIGHT GIRDER	DL1	0.08	0.05	0.01	0.00	0.02	0.06	0.08
	DL2	0.01	0.01	0.00	0.00	0.00	0.01	0.01
	C	0.00	-0.04	-0.09	-0.12	-0.09	-0.03	0.00
4	FG	643.03	643.19	643.53	643.86	644.18	644.50	644.66
	TES	642.08	642.18	642.52	642.84	643.18	643.49	643.72
	ZW	641.98	642.11	642.38	642.69	643.04	643.42	643.62
	CW	641.98	642.15	642.48	642.81	643.13	643.46	643.62
	SW	0.03	0.02	0.01	0.00	0.01	0.02	0.03
RIGHT GIRDER	DL1	0.08	0.05	0.02	0.00	0.02	0.06	0.08
	DL2	0.01	0.01	0.00	0.00	0.00	0.01	0.01
	C	0.00	-0.04	-0.10	-0.12	-0.09	-0.03	0.00
BLOCKING HEIGHTS								
5	BLK	7.84			8.58			9.49
6		8.26			8.99			9.91
7		9.00			9.72			10.64
8		9.43			10.14			11.07



HORIZONTAL LOCATION KEY
LOOKING UPSTATION

LEGEND:
FOR LEGEND SEE CAMBER DIAGRAM UNIT 1
NOTES:
FOR NOTES SEE CAMBER DIAGRAM UNIT 1

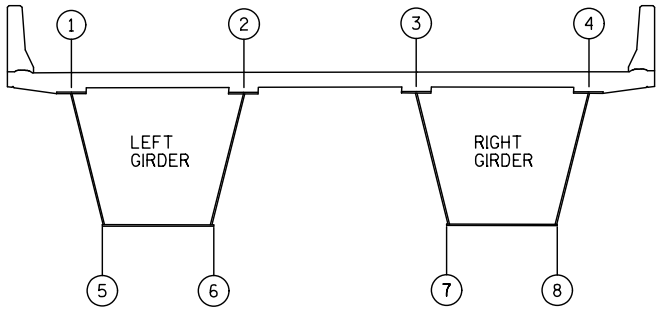
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY		ZMG	PLANS CK'D. MAD
CAMBER DATA: FIELD SECTION #5 & #6			SHEET 44 OF 50

FIELD SECTION 7

HORIZ. LOC.	VALUE	POSITION AND STATION									
		FS #6 819+67.19	P7-1 819+75.65	P7-2 819+92.57	P7-3 820+09.48	P7-4 820+26.40	P7-5 820+43.32	P7-6 820+60.23	P7-7 820+77.15	PIER 4 820+94.07	
CAMBER DATA											
1	FG	642.95	643.11	643.44	643.76	644.08	644.40	644.72	645.04	645.37	
	TES	642.01	642.14	642.51	642.86	643.19	643.50	643.78	644.04	644.28	
	ZW	641.90	642.09	642.48	642.84	643.18	643.47	643.74	643.98	644.20	
	CW	641.90	642.05	642.36	642.67	642.97	643.28	643.59	643.89	644.20	
LEFT WEB	SW	0.03	0.04	0.05	0.06	0.07	0.06	0.05	0.03	0.00	
	DL1	0.08	0.10	0.14	0.17	0.18	0.16	0.12	0.07	0.00	
	DL2	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.00	
	C	0.00	0.04	0.12	0.18	0.20	0.19	0.15	0.08	0.00	
2	FG	643.52	643.68	644.01	644.33	644.65	644.97	645.29	645.61	645.94	
	TES	642.58	642.71	643.08	643.44	643.77	644.07	644.35	644.61	644.78	
	ZW	642.47	642.67	643.05	643.42	643.75	644.05	644.32	644.55	644.78	
	CW	642.47	642.63	642.93	643.24	643.55	643.86	644.16	644.47	644.78	
RIGHT WEB	SW	0.03	0.04	0.05	0.07	0.07	0.06	0.05	0.03	0.00	
	DL1	0.08	0.10	0.14	0.17	0.18	0.17	0.13	0.07	0.00	
	DL2	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	
	C	0.00	0.04	0.12	0.18	0.20	0.19	0.15	0.08	0.00	
3	FG	644.09	644.25	644.58	644.90	645.22	645.54	645.86	646.18	646.51	
	TES	643.15	643.29	643.66	644.01	644.34	644.65	644.92	645.18	645.34	
	ZW	643.05	643.24	643.63	644.00	644.33	644.63	644.89	645.12	645.34	
	CW	643.05	643.20	643.50	643.81	644.12	644.42	644.73	645.03	645.34	
LEFT WEB	SW	0.03	0.04	0.06	0.07	0.07	0.06	0.05	0.03	0.00	
	DL1	0.08	0.10	0.15	0.18	0.19	0.17	0.13	0.07	0.00	
	DL2	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.00	
	C	0.00	0.04	0.12	0.19	0.21	0.20	0.16	0.09	0.00	
4	FG	644.66	644.82	645.15	645.47	645.79	646.11	646.43	646.75	647.08	
	TES	643.72	643.86	644.23	644.59	644.92	645.22	645.50	645.75	645.91	
	ZW	643.62	643.82	644.20	644.57	644.91	645.20	645.47	645.70	645.91	
	CW	643.62	643.77	644.07	644.38	644.69	644.99	645.30	645.60	645.91	
RIGHT WEB	SW	0.03	0.04	0.06	0.07	0.07	0.07	0.05	0.03	0.00	
	DL1	0.08	0.11	0.15	0.18	0.19	0.17	0.13	0.07	0.00	
	DL2	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.00	
	C	0.00	0.05	0.13	0.19	0.22	0.21	0.17	0.09	0.00	
BLOCKING HEIGHTS											
5	BLK	9.49									11.80
6		9.91									12.22
7		10.64									12.94
8		11.07									13.36

FIELD SECTION 8

HORIZ. LOC.	VALUE	POSITION AND STATION									
		PIER 4 820+97.73	P8- 2 821+14.33	P8- 3 821+30.92	P8- 4 821+47.52	P8- 5 821+64.12	P8- 6 821+80.72	P8- 7 821+97.31	P8- 8 822+13.91	P8- 9 822+30.51	FS #7 822+38.80
CAMBER DATA											
1 LEFT GIRDER LEFT WEB	FG	645.44	645.75	646.07	646.38	646.70	647.02	647.33	647.65	647.96	648.12
	TES	644.35	644.78	645.19	645.57	645.93	646.26	646.56	646.83	647.08	647.28
	ZW	644.27	644.73	645.17	645.58	645.96	646.29	646.58	646.84	647.07	647.18
	CW	644.27	644.61	644.95	645.30	645.64	645.98	646.32	646.67	647.01	647.18
	SW	0.00	0.04	0.07	0.09	0.11	0.11	0.11	0.09	0.07	0.06
	DL1	0.00	0.10	0.18	0.24	0.28	0.29	0.28	0.24	0.18	0.15
	DL2	0.00	0.01	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02
	C	0.00	0.12	0.22	0.29	0.32	0.31	0.26	0.17	0.06	0.00
2 LEFT GIRDER RIGHT WEB	FG	646.01	646.32	646.64	646.95	647.27	647.59	647.90	648.22	648.53	648.69
	TES	644.92	645.35	645.76	646.15	646.51	646.84	647.14	647.41	647.66	647.85
	ZW	644.84	645.30	645.75	646.16	646.54	646.87	647.16	647.42	647.65	647.75
	CW	644.84	645.18	645.53	645.87	646.21	646.55	646.90	647.24	647.58	647.75
	SW	0	0.04	0.07	0.10	0.11	0.12	0.11	0.09	0.07	0.06
	DL1	0	0.10	0.19	0.25	0.29	0.30	0.29	0.24	0.19	0.15
	DL2	0	0.01	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02
	C	0.00	0.12	0.22	0.29	0.33	0.32	0.27	0.18	0.06	0.00
3 RIGHT GIRDER LEFT WEB	FG	646.58	646.89	647.21	647.52	647.84	648.16	648.47	648.79	649.10	649.26
	TES	645.49	645.92	646.34	646.73	647.09	647.42	647.71	647.98	648.23	648.42
	ZW	645.41	645.88	646.33	646.74	647.12	647.45	647.74	647.99	648.22	648.33
	CW	645.41	645.75	646.10	646.44	646.78	647.13	647.47	647.81	648.16	648.33
	SW	0	0.04	0.07	0.10	0.11	0.12	0.11	0.10	0.07	0.06
	DL1	0	0.10	0.19	0.26	0.30	0.31	0.29	0.25	0.19	0.16
	DL2	0	0.01	0.02	0.03	0.03	0.04	0.03	0.03	0.02	0.02
	C	0.00	0.12	0.23	0.30	0.34	0.32	0.27	0.18	0.06	0.00
4 RIGHT GIRDER RIGHT WEB	FG	647.15	647.46	647.78	648.09	648.41	648.73	649.04	649.36	649.67	649.83
	TES	646.06	646.49	646.91	647.30	647.67	647.99	648.29	648.56	648.80	649.00
	ZW	645.98	646.45	646.90	647.32	647.70	648.03	648.32	648.57	648.79	648.90
	CW	645.98	646.32	646.67	647.01	647.36	647.70	648.04	648.39	648.73	648.90
	SW	0	0.04	0.07	0.10	0.12	0.12	0.11	0.10	0.07	0.06
	DL1	0	0.10	0.20	0.26	0.31	0.32	0.30	0.25	0.19	0.16
	DL2	0	0.01	0.02	0.03	0.03	0.04	0.03	0.03	0.02	0.02
	C	0.00	0.13	0.24	0.31	0.35	0.33	0.28	0.19	0.06	0.00
BLOCKING HEIGHTS											
5	BLK	11.87									14.78
6		12.24									15.15
7		13.01									15.92
8		13.38									16.30



HORIZONTAL LOCATION KEY
LOOKING UPSTATION

LEGEND:
FOR LEGEND SEE CAMBER DIAGRAM UNIT 1 AND 2

NOTES:
FOR NOTES SEE CAMBER DIAGRAM UNIT 1 AND 2

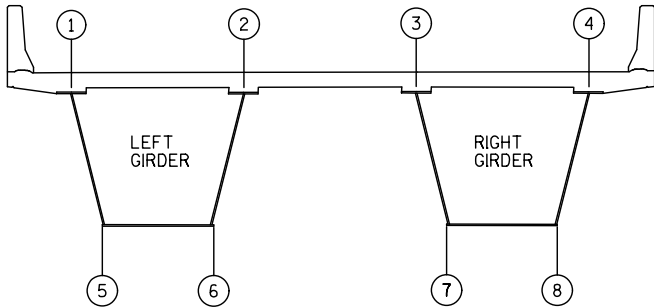
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
		DRAWN BY	ZMG
		PLANS CK'D.	MAD
CAMBER DATA: FIELD SECTION #7 & #8		SHEET 45 OF 50	

FIELD SECTION 9

HORIZ. LOC.	VALUE	POSITION AND STATION									
		FS #7	P9-1	P9-2	P9-3	PIER 5	P9-5	P9-6	P9-7	FS #8	
		822+38.80	822+47.10	822+63.70	822+80.30	822+96.90	823+13.56	823+30.23	823+46.90	823+55.23	
CAMBER DATA											
1	FG	648.12	648.28	648.58	648.86	649.14	649.40	649.65	649.88	650.00	
	TES	647.28	647.36	647.59	647.91	648.16	648.44	648.66	648.97	649.16	
	ZW	647.18	647.29	647.50	647.73	647.97	648.26	648.57	648.90	649.06	
	CW	647.18	647.31	647.58	647.85	648.12	648.39	648.66	648.93	649.06	
LEFT GIRDER	SW	0.06	0.05	0.02	0.01	0.00	0.01	0.02	0.05	0.06	
	DL1	0.15	0.12	0.06	0.02	0.00	0.01	0.06	0.12	0.15	
	DL2	0.02	0.01	0.01	0.00	0.00	0.00	0.01	0.02	0.02	
	C	0.00	-0.03	-0.08	-0.13	-0.15	-0.13	-0.09	-0.03	0.00	
2	FG	648.69	648.85	649.15	649.43	649.71	649.97	650.22	650.45	650.57	
	TES	647.85	647.93	648.16	648.47	648.73	649.01	649.23	649.54	649.73	
	ZW	647.75	647.86	648.07	648.29	648.54	648.82	649.14	649.47	649.64	
	CW	647.75	647.88	648.15	648.42	648.69	648.96	649.23	649.50	649.64	
LEFT WEB	SW	0.06	0.05	0.02	0.01	0.00	0.01	0.02	0.05	0.06	
	DL1	0.15	0.12	0.06	0.02	0.00	0.01	0.06	0.12	0.15	
	DL2	0.02	0.01	0.01	0.00	0.00	0.00	0.01	0.02	0.02	
	C	0.00	-0.02	-0.08	-0.13	-0.15	-0.14	-0.09	-0.03	0.00	
3	FG	649.26	649.42	649.72	650.00	650.28	650.54	650.79	651.02	651.14	
	TES	648.42	648.50	648.73	649.04	649.30	649.58	649.81	650.11	650.30	
	ZW	648.32	648.43	648.64	648.86	649.11	649.40	649.72	650.04	650.21	
	CW	648.32	648.46	648.72	648.99	649.26	649.53	649.80	650.07	650.21	
RIGHT GIRDER	SW	0.06	0.05	0.02	0.01	0.00	0.01	0.03	0.05	0.06	
	DL1	0.15	0.12	0.06	0.02	0.00	0.02	0.06	0.12	0.15	
	DL2	0.02	0.01	0.01	0.00	0.00	0.00	0.01	0.02	0.02	
	C	0.00	-0.02	-0.08	-0.13	-0.15	-0.13	-0.09	-0.03	0.00	
4	FG	649.83	649.99	650.29	650.57	650.85	651.11	651.36	651.59	651.71	
	TES	648.99	649.07	649.30	649.61	649.87	650.15	650.38	650.68	650.88	
	ZW	648.89	649.01	649.21	649.43	649.68	649.97	650.29	650.62	650.78	
	CW	648.89	649.03	649.30	649.57	649.83	650.11	650.38	650.65	650.78	
RIGHT WEB	SW	0.06	0.05	0.02	0.01	0.00	0.01	0.03	0.05	0.06	
	DL1	0.15	0.12	0.06	0.02	0.00	0.02	0.06	0.12	0.16	
	DL2	0.02	0.01	0.01	0.00	0.00	0.00	0.01	0.02	0.02	
	C	0.00	-0.02	-0.08	-0.13	-0.16	-0.14	-0.09	-0.03	0.00	
BLOCKING HEIGHTS											
5	BLK	14.78				15.57				16.66	
6		15.15				15.94				17.04	
7		15.92				16.71				17.81	
8		16.30				17.09				18.19	

FIELD SECTION 10

HORIZ. LOC.	VALUE	POSITION AND STATION									
		FS #8	P10-1	P10-2	P10-3	P10-4	P10-5	P10-6	P10-7	P10-8	FS #9
		823+55.23	823+63.56	823+80.23	823+96.90	824+13.56	824+30.23	824+46.90	824+63.56	824+80.23	824+88.56
CAMBER DATA											
1	FG	650.00	650.11	650.32	650.52	650.70	650.87	651.03	651.18	651.31	651.37
	TES	649.16	649.23	649.51	649.76	649.97	650.14	650.27	650.37	650.44	650.53
	ZW	649.06	649.22	649.52	649.79	650.01	650.19	650.31	650.38	650.43	650.44
	CW	649.06	649.15	649.32	649.49	649.66	649.84	650.01	650.18	650.35	650.44
LEFT GIRDER	SW	0.06	0.07	0.10	0.12	0.12	0.13	0.12	0.10	0.08	0.06
	DL1	0.15	0.18	0.24	0.29	0.31	0.32	0.29	0.25	0.19	0.15
	DL2	0.02	0.02	0.03	0.04	0.04	0.04	0.04	0.03	0.02	0.02
	C	0.00	0.07	0.20	0.30	0.35	0.35	0.30	0.20	0.07	0.00
2	FG	650.57	650.68	650.89	651.09	651.27	651.44	651.60	651.75	651.88	651.94
	TES	649.73	649.81	650.09	650.34	650.55	650.72	650.85	650.95	651.01	651.11
	ZW	649.63	649.80	650.10	650.37	650.59	650.77	650.89	650.96	651.00	651.01
	CW	649.63	649.72	649.89	650.06	650.24	650.41	650.58	650.75	650.93	651.01
LEFT WEB	SW	0.06	0.08	0.10	0.12	0.13	0.13	0.12	0.10	0.08	0.06
	DL1	0.15	0.19	0.25	0.29	0.32	0.32	0.30	0.25	0.19	0.16
	DL2	0.02	0.02	0.03	0.04	0.04	0.04	0.04	0.03	0.02	0.02
	C	0.00	0.08	0.21	0.31	0.36	0.36	0.31	0.21	0.08	0.00
3	FG	651.14	651.25	651.46	651.66	651.84	652.01	652.17	652.32	652.45	652.51
	TES	650.30	650.38	650.66	650.91	651.12	651.30	651.43	651.52	651.58	651.68
	ZW	650.20	650.37	650.68	650.95	651.17	651.34	651.47	651.54	651.58	651.59
	CW	650.20	650.29	650.46	650.63	650.81	650.98	651.15	651.33	651.50	651.59
RIGHT GIRDER	SW	0.06	0.08	0.10	0.12	0.13	0.13	0.12	0.10	0.08	0.06
	DL1	0.15	0.19	0.25	0.30	0.33	0.33	0.30	0.26	0.19	0.16
	DL2	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.03	0.03	0.02
	C	0.00	0.08	0.21	0.31	0.36	0.36	0.31	0.21	0.08	0.00
4	FG	651.71	651.82	652.03	652.23	652.41	652.58	652.74	652.89	653.02	653.08
	TES	650.87	650.95	651.23	651.49	651.70	651.88	652.00	652.10	652.15	652.25
	ZW	650.77	650.95	651.25	651.53	651.75	651.93	652.04	652.12	652.15	652.16
	CW	650.77	650.86	651.03	651.21	651.38	651.55	651.73	651.90	652.08	652.16
RIGHT WEB	SW	0.06	0.08	0.10	0.12	0.13	0.13	0.12	0.10	0.08	0.07
	DL1	0.15	0.19	0.26	0.30	0.33	0.33	0.31	0.26	0.19	0.16
	DL2	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.03	0.03	0.02
	C	0.00	0.09	0.22	0.32	0.37	0.37	0.32	0.22	0.07	0.00
BLOCKING HEIGHTS											
5	BLK	16.66									18.03
6		17.04									18.42
7		17.81									19.20
8		18.19									19.59



HORIZONTAL LOCATION KEY
LOOKING UPSTATION

LEGEND:
FOR LEGEND SEE CAMBER DIAGRAM UNIT 2
NOTES:
FOR NOTES SEE CAMBER DIAGRAM UNIT 2

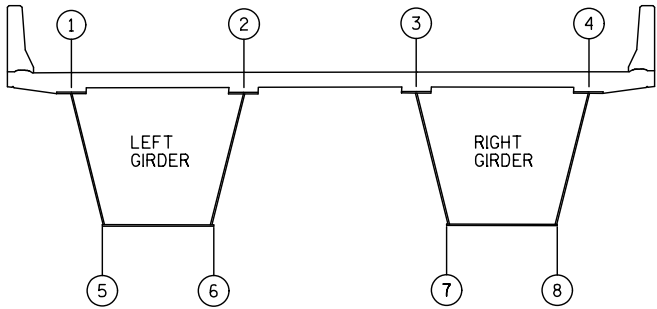
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY		ZMG	PLANS CK'D. MAD
CAMBER DATA: FIELD SECTION #9 & #10			SHEET 46 OF 50

FIELD SECTION 11

HORIZ. LOC.	VALUE	POSITION AND STATION									
		FS #9	P11-1	P11-2	P11-3	PIER 6	P11-5	P11-6	P11-7	FS #10	
		824+88.56	824+96.90	825+13.56	825+30.23	825+46.90	825+63.56	825+80.23	825+96.90	826+05.23	
CAMBER DATA											
1	FG	651.37	651.43	651.53	651.63	651.71	651.78	651.83	651.87	651.89	
	TES	650.53	650.51	650.55	650.67	650.73	650.81	650.85	650.96	651.05	
LEFT GIRDER	ZW	650.44	650.45	650.46	650.49	650.54	650.63	650.76	650.89	650.96	
	CW	650.44	650.48	650.55	650.62	650.70	650.77	650.85	650.92	650.96	
LEFT WEB	SW	0.06	0.05	0.03	0.01	0.00	0.01	0.02	0.05	0.06	
	DL1	0.15	0.12	0.06	0.02	0.00	0.02	0.06	0.12	0.16	
	DL2	0.02	0.02	0.01	0.00	0.00	0.00	0.01	0.01	0.02	
	C	0.00	-0.03	-0.09	-0.14	-0.16	-0.14	-0.09	-0.03	0.00	
2	FG	651.94	652.00	652.10	652.20	652.28	652.35	652.40	652.44	652.46	
	TES	651.10	651.08	651.12	651.24	651.30	651.38	651.42	651.53	651.62	
LEFT GIRDER	ZW	651.01	651.02	651.03	651.06	651.11	651.20	651.33	651.46	651.53	
	CW	651.01	651.05	651.12	651.20	651.27	651.34	651.42	651.49	651.53	
RIGHT WEB	SW	0.06	0.05	0.03	0.01	0.00	0.01	0.02	0.05	0.06	
	DL1	0.15	0.12	0.06	0.02	0.00	0.02	0.06	0.12	0.16	
	DL2	0.02	0.02	0.01	0.00	0.00	0.00	0.01	0.02	0.02	
	C	0.00	-0.03	-0.09	-0.14	-0.16	-0.14	-0.09	-0.03	0.00	
3	FG	652.51	652.57	652.67	652.77	652.85	652.92	652.97	653.01	653.03	
	TES	651.67	651.66	651.70	651.81	651.87	651.95	651.99	652.10	652.20	
RIGHT GIRDER	ZW	651.58	651.59	651.61	651.63	651.68	651.77	651.90	652.04	652.11	
	CW	651.58	651.62	651.69	651.77	651.84	651.92	651.99	652.07	652.11	
LEFT WEB	SW	0.06	0.05	0.03	0.01	0.00	0.01	0.02	0.05	0.06	
	DL1	0.15	0.13	0.06	0.02	0.00	0.02	0.06	0.13	0.16	
	DL2	0.02	0.02	0.01	0.00	0.00	0.00	0.01	0.02	0.02	
	C	0.00	-0.02	-0.08	-0.14	-0.16	-0.14	-0.09	-0.03	0.00	
4	FG	653.08	653.14	653.24	653.34	653.42	653.49	653.54	653.58	653.60	
	TES	652.24	652.23	652.27	652.38	652.44	652.52	652.56	652.67	652.77	
RIGHT GIRDER	ZW	652.15	652.17	652.18	652.20	652.25	652.34	652.47	652.61	652.68	
	CW	652.15	652.19	652.26	652.34	652.41	652.49	652.57	652.64	652.68	
RIGHT WEB	SW	0.06	0.05	0.03	0.01	0.00	0.01	0.02	0.05	0.06	
	DL1	0.15	0.13	0.07	0.02	0.00	0.02	0.06	0.13	0.16	
	DL2	0.02	0.02	0.01	0.00	0.00	0.00	0.01	0.02	0.02	
	C	0.00	-0.02	-0.08	-0.14	-0.16	-0.15	-0.10	-0.03	0.00	
BLOCKING HEIGHTS											
5	BLK	18.03				18.14				18.55	
6		18.42				18.52				18.94	
7		19.20				19.30				19.72	
8		19.59				19.69				20.12	

FIELD SECTION 12

HORIZ. LOC.	VALUE	POSITION AND STATION										
		FS #10	P12-1	P12-2	P12-3	P12-4	P12-5	P12-6	P12-7	P12-8	FS #11	
		826+05.23	826+13.56	826+30.23	826+46.90	826+63.56	826+80.23	826+96.90	827+13.56	827+30.23	827+38.56	
CAMBER DATA												
1	FG	651.89	651.90	651.92	651.92	651.91	651.88	651.85	651.80	651.74	651.70	
	TES	651.05	651.03	651.11	651.17	651.18	651.16	651.09	650.99	650.86	650.86	
LEFT GIRDER	ZW	650.96	651.02	651.13	651.21	651.22	651.20	651.13	651.01	650.85	650.77	
	CW	650.96	650.94	650.92	650.90	650.87	650.85	650.83	650.80	650.78	650.77	
LEFT WEB	SW	0.06	0.07	0.10	0.12	0.12	0.13	0.12	0.10	0.07	0.06	
	DL1	0.16	0.19	0.25	0.30	0.32	0.32	0.29	0.25	0.19	0.16	
	DL2	0.02	0.02	0.03	0.04	0.04	0.04	0.04	0.03	0.02	0.02	
	C	0.00	0.07	0.21	0.31	0.35	0.35	0.30	0.21	0.07	0.00	
2	FG	652.46	652.47	652.49	652.49	652.48	652.45	652.42	652.37	652.31	652.27	
	TES	651.62	651.60	651.69	651.75	651.76	651.74	651.67	651.57	651.44	651.44	
LEFT GIRDER	ZW	651.53	651.59	651.70	651.79	651.80	651.78	651.71	651.59	651.43	651.34	
	CW	651.53	651.51	651.49	651.47	651.45	651.42	651.40	651.38	651.35	651.34	
RIGHT WEB	SW	0.06	0.08	0.10	0.12	0.13	0.13	0.12	0.10	0.08	0.06	
	DL1	0.16	0.19	0.26	0.31	0.33	0.33	0.30	0.25	0.19	0.16	
	DL2	0.02	0.02	0.03	0.04	0.04	0.04	0.04	0.03	0.02	0.02	
	C	0.00	0.08	0.21	0.32	0.36	0.36	0.31	0.21	0.08	0.00	
3	FG	653.03	653.04	653.06	653.06	653.05	653.02	652.99	652.94	652.88	652.84	
	TES	652.19	652.18	652.26	652.33	652.34	652.31	652.25	652.14	652.01	652.01	
RIGHT GIRDER	ZW	652.10	652.17	652.28	652.37	652.38	652.36	652.28	652.16	652.00	651.92	
	CW	652.10	652.08	652.06	652.04	652.02	652.00	651.97	651.95	651.93	651.92	
LEFT WEB	SW	0.06	0.08	0.10	0.12	0.13	0.13	0.12	0.10	0.08	0.06	
	DL1	0.16	0.20	0.26	0.31	0.33	0.33	0.31	0.26	0.19	0.16	
	DL2	0.02	0.02	0.03	0.04	0.04	0.04	0.04	0.03	0.02	0.02	
	C	0.00	0.09	0.22	0.33	0.37	0.37	0.31	0.21	0.08	0.00	
4	FG	653.60	653.61	653.63	653.63	653.62	653.59	653.56	653.51	653.45	653.41	
	TES	652.76	652.75	652.84	652.90	652.92	652.89	652.82	652.72	652.58	652.58	
RIGHT GIRDER	ZW	652.67	652.75	652.86	652.94	652.96	652.94	652.86	652.74	652.57	652.49	
	CW	652.67	652.66	652.63	652.61	652.59	652.57	652.55	652.52	652.50	652.49	
RIGHT WEB	SW	0.06	0.08	0.10	0.12	0.13	0.13	0.12	0.10	0.08	0.07	
	DL1	0.16	0.20	0.27	0.32	0.34	0.34	0.31	0.26	0.19	0.16	
	DL2	0.02	0.02	0.03	0.04	0.04	0.04	0.04	0.03	0.02	0.02	
	C	0.00	0.09	0.23	0.33	0.38	0.37	0.32	0.22	0.07	0.00	
BLOCKING HEIGHTS												
5	BLK	18.55									18.36	
6		18.94									18.76	
7		19.72									19.55	
8		20.12									19.94	



HORIZONTAL LOCATION KEY
LOOKING UPSTATION

LEGEND:
FOR LEGEND SEE CAMBER DIAGRAM UNIT 2
NOTES:
FOR NOTES SEE CAMBER DIAGRAM UNIT 2

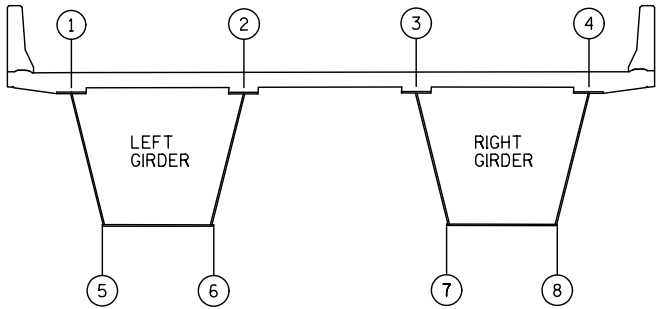
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY		ZMG	PLANS CK'D. MAD
CAMBER DATA: FIELD SECTION #11 & #12			SHEET 47 OF 50

FIELD SECTION 13

HORIZ. LOC.	VALUE	POSITION AND STATION									
		FS #11	P13-1	P13-2	P13-3	PIER 7	P13-5	P13-6	P13-7	FS #12	
		827+38.56	827+46.90	827+63.56	827+80.23	827+96.90	828+13.56	828+30.23	828+46.90	828+55.23	
CAMBER DATA											
1	FG	651.70	651.66	651.57	651.47	651.36	651.23	651.09	650.93	650.85	
	TES	650.86	650.74	650.59	650.51	650.38	650.27	650.11	650.02	650.02	
LEFT GIRDER	ZW	650.77	650.68	650.50	650.33	650.19	650.09	650.02	649.96	649.93	
	CW	650.77	650.71	650.59	650.47	650.35	650.23	650.11	649.99	649.93	
LEFT WEB	SW	0.06	0.05	0.02	0.01	0.00	0.01	0.03	0.05	0.06	
	DL1	0.16	0.12	0.06	0.02	0.00	0.02	0.06	0.13	0.16	
	DL2	0.02	0.02	0.01	0.00	0.00	0.00	0.01	0.02	0.02	
	C	0.00	-0.03	-0.09	-0.14	-0.16	-0.14	-0.09	-0.03	0.00	
2	FG	652.27	652.23	652.14	652.04	651.93	651.80	651.66	651.50	651.42	
	TES	651.43	651.32	651.16	651.08	650.95	650.84	650.68	650.60	650.59	
LEFT GIRDER	ZW	651.34	651.25	651.07	650.90	650.76	650.66	650.59	650.53	650.50	
	CW	651.34	651.28	651.16	651.04	650.92	650.80	650.68	650.56	650.50	
RIGHT WEB	SW	0.06	0.05	0.02	0.01	0.00	0.01	0.03	0.05	0.06	
	DL1	0.16	0.12	0.06	0.02	0.00	0.02	0.06	0.13	0.16	
	DL2	0.02	0.02	0.01	0.00	0.00	0.00	0.01	0.02	0.02	
	C	0.00	-0.03	-0.09	-0.14	-0.16	-0.14	-0.09	-0.03	0.00	
3	FG	652.84	652.80	652.71	652.61	652.50	652.37	652.23	652.07	651.99	
	TES	652.00	651.89	651.73	651.65	651.52	651.41	651.25	651.17	651.17	
RIGHT GIRDER	ZW	651.91	651.83	651.65	651.47	651.33	651.23	651.16	651.10	651.08	
	CW	651.91	651.85	651.73	651.61	651.49	651.37	651.25	651.14	651.08	
LEFT WEB	SW	0.06	0.05	0.03	0.01	0.00	0.01	0.03	0.05	0.07	
	DL1	0.16	0.13	0.07	0.02	0.00	0.02	0.06	0.13	0.16	
	DL2	0.02	0.02	0.01	0.00	0.00	0.00	0.01	0.02	0.02	
	C	0.00	-0.02	-0.09	-0.14	-0.16	-0.15	-0.10	-0.03	0.00	
4	FG	653.41	653.37	653.28	653.18	653.07	652.94	652.80	652.64	652.56	
	TES	652.57	652.46	652.30	652.22	652.09	651.98	651.82	651.74	651.74	
RIGHT GIRDER	ZW	652.48	652.40	652.22	652.04	651.90	651.80	651.73	651.68	651.65	
	CW	652.48	652.42	652.30	652.18	652.06	651.95	651.83	651.71	651.65	
RIGHT WEB	SW	0.06	0.05	0.03	0.01	0.00	0.01	0.03	0.05	0.07	
	DL1	0.16	0.13	0.07	0.02	0.00	0.02	0.06	0.13	0.17	
	DL2	0.02	0.02	0.01	0.00	0.00	0.00	0.01	0.02	0.02	
	C	0.00	-0.02	-0.08	-0.14	-0.17	-0.15	-0.10	-0.03	0.00	
BLOCKING HEIGHTS											
5	BLK	18.36				17.79				17.52	
6		18.76				18.18				17.93	
7		19.55				18.97				18.71	
8		19.94				19.36				19.11	

FIELD SECTION 14

HORIZ. LOC.	VALUE	POSITION AND STATION										
		FS #12	P14-1	P14-2	P14-3	P14-4	P14-5	P14-6	P14-7	P14-8	FS #13	
		828+55.23	828+63.56	828+80.23	828+96.90	829+13.56	829+30.23	829+46.90	829+63.56	829+80.23	829+88.56	
CAMBER DATA												
1	FG	650.85	650.77	650.59	650.40	650.19	649.97	649.74	649.50	649.24	649.11	
	TES	650.02	649.90	649.79	649.65	649.48	649.26	649.01	648.71	648.39	648.29	
LEFT GIRDER	ZW	649.93	649.90	649.81	649.69	649.53	649.31	649.05	648.74	648.39	648.20	
	CW	649.93	649.82	649.61	649.39	649.17	648.96	648.74	648.53	648.31	648.20	
LEFT WEB	SW	0.06	0.08	0.10	0.12	0.13	0.13	0.12	0.11	0.08	0.07	
	DL1	0.16	0.19	0.26	0.30	0.33	0.33	0.31	0.27	0.20	0.17	
	DL2	0.02	0.02	0.03	0.04	0.04	0.04	0.04	0.03	0.03	0.02	
	C	0.00	0.07	0.21	0.30	0.35	0.36	0.30	0.21	0.08	0.00	
2	FG	651.42	651.34	651.16	650.97	650.76	650.54	650.31	650.07	649.81	649.68	
	TES	650.59	650.48	650.37	650.23	650.06	649.84	649.58	649.29	648.96	648.86	
LEFT GIRDER	ZW	650.50	650.47	650.39	650.27	650.11	649.90	649.63	649.31	648.96	648.78	
	CW	650.50	650.39	650.18	649.96	649.75	649.53	649.32	649.10	648.89	648.78	
RIGHT WEB	SW	0.06	0.08	0.10	0.12	0.13	0.14	0.13	0.11	0.08	0.07	
	DL1	0.16	0.20	0.26	0.31	0.34	0.34	0.32	0.27	0.21	0.18	
	DL2	0.02	0.02	0.03	0.04	0.04	0.04	0.04	0.03	0.03	0.02	
	C	0.00	0.08	0.21	0.31	0.36	0.36	0.31	0.21	0.08	0.00	
3	FG	651.99	651.91	651.73	651.54	651.33	651.11	650.88	650.64	650.38	650.25	
	TES	651.16	651.05	650.95	650.81	650.64	650.42	650.16	649.87	649.54	649.44	
RIGHT GIRDER	ZW	651.07	651.05	650.97	650.85	650.69	650.48	650.21	649.89	649.54	649.35	
	CW	651.07	650.96	650.75	650.53	650.32	650.10	649.89	649.68	649.46	649.35	
LEFT WEB	SW	0.06	0.08	0.11	0.13	0.14	0.14	0.13	0.11	0.09	0.07	
	DL1	0.16	0.20	0.27	0.32	0.35	0.35	0.32	0.28	0.21	0.18	
	DL2	0.02	0.02	0.03	0.04	0.04	0.04	0.04	0.03	0.03	0.02	
	C	0.00	0.08	0.22	0.32	0.37	0.37	0.32	0.22	0.08	0.00	
4	FG	652.56	652.48	652.30	652.11	651.90	651.68	651.45	651.21	650.95	650.82	
	TES	651.73	651.62	651.52	651.39	651.21	651.00	650.74	650.44	650.11	650.01	
RIGHT GIRDER	ZW	651.64	651.62	651.55	651.43	651.27	651.06	650.79	650.47	650.11	649.93	
	CW	651.64	651.53	651.32	651.10	650.89	650.68	650.46	650.25	650.04	649.93	
RIGHT WEB	SW	0.06	0.08	0.11	0.13	0.14	0.14	0.13	0.11	0.09	0.07	
	DL1	0.16	0.20	0.27	0.32	0.35	0.36	0.33	0.28	0.21	0.18	
	DL2	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.02	
	C	0.00	0.09	0.23	0.33	0.38	0.38	0.32	0.22	0.07	0.00	
BLOCKING HEIGHTS												
5	BLK	17.52									15.80	
6		17.93									16.21	
7		18.71									17.00	
8		19.11									17.40	



HORIZONTAL LOCATION KEY
LOOKING UPSTATION

LEGEND:

FOR LEGEND SEE CAMBER DIAGRAM UNIT 2

NOTES:

FOR NOTES SEE CAMBER DIAGRAM UNIT 2

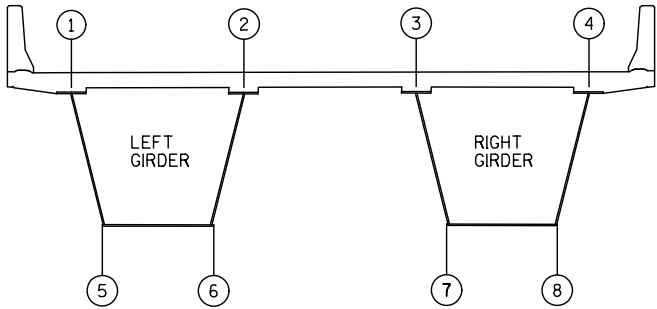
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY		ZMG	PLANS CK'D. MAD
CAMBER DATA: FIELD SECTION #13 & #14			SHEET 48 OF 50

FIELD SECTION 15

HORIZ. LOC.	VALUE	POSITION AND STATION									
		FS #13	P15-1	P15-2	P15-3	PIER 8	P15-5	P15-6	P15-7	FS #14	
		829+88.56	829+96.90	830+13.56	830+30.23	830+46.90	830+62.56	830+78.23	830+93.90	831+01.73	
CAMBER DATA											
1	FG	649.11	648.97	648.69	648.39	648.08	647.78	647.46	647.14	646.97	
	TES	648.29	648.07	647.72	647.44	647.10	646.80	646.45	646.17	646.08	
	ZW	648.20	648.02	647.64	647.26	646.91	646.62	646.35	646.09	645.96	
	CW	648.20	648.04	647.71	647.38	647.05	646.74	646.43	646.12	645.96	
	SW	0.07	0.06	0.03	0.01	0.00	0.00	0.01	0.03	0.04	
LEFT WEB	DL1	0.17	0.14	0.08	0.03	0.00	0.00	0.03	0.08	0.10	
	DL2	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.01	0.01	
	C	0.00	-0.02	-0.07	-0.11	-0.13	-0.12	-0.08	-0.03	0.00	
	FG	649.68	649.54	649.26	648.96	648.65	648.35	648.03	647.71	647.54	
	TES	648.86	648.65	648.29	648.01	647.67	647.37	647.02	646.75	646.65	
2	ZW	648.77	648.59	648.21	647.83	647.48	647.19	646.92	646.66	646.54	
	CW	648.77	648.61	648.28	647.95	647.62	647.31	647.00	646.69	646.54	
	SW	0.07	0.06	0.03	0.01	0.00	0.00	0.01	0.03	0.04	
	DL1	0.17	0.14	0.08	0.03	0.00	0.00	0.03	0.08	0.11	
	DL2	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.01	0.01	
RIGHT WEB	C	0.00	-0.02	-0.07	-0.11	-0.14	-0.12	-0.08	-0.03	0.00	
	FG	650.25	650.11	649.83	649.53	649.22	648.92	648.60	648.28	648.11	
	TES	649.43	649.22	648.86	648.58	648.24	647.94	647.59	647.32	647.22	
	ZW	649.34	649.16	648.78	648.41	648.05	647.76	647.49	647.23	647.11	
	CW	649.34	649.18	648.85	648.52	648.19	647.88	647.57	647.26	647.11	
3	SW	0.07	0.06	0.03	0.01	0.00	0.00	0.01	0.03	0.04	
	DL1	0.17	0.14	0.08	0.03	0.00	0.00	0.03	0.08	0.11	
	DL2	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.01	0.01	
	C	0.00	-0.01	-0.07	-0.11	-0.14	-0.12	-0.08	-0.03	0.00	
	FG	650.82	650.68	650.40	650.10	649.79	649.49	649.17	648.85	648.68	
4	TES	650.00	649.79	649.43	649.15	648.81	648.51	648.16	647.89	647.80	
	ZW	649.91	649.74	649.35	648.98	648.62	648.33	648.06	647.81	647.68	
	CW	649.91	649.75	649.42	649.09	648.76	648.45	648.15	647.84	647.68	
	SW	0.07	0.06	0.03	0.01	0.00	0.00	0.01	0.03	0.04	
	DL1	0.17	0.15	0.08	0.03	0.00	0.00	0.04	0.08	0.11	
RIGHT WEB	DL2	0.02	0.02	0.01	0.00	0.00	0.00	0.01	0.01	0.01	
	C	0.00	-0.01	-0.07	-0.12	-0.14	-0.13	-0.09	-0.03	0.00	
BLOCKING HEIGHTS											
5	BLK	15.80				14.51				13.56	
6		16.21				14.92				13.97	
7		17.00				15.71				14.76	
8		17.40				16.12				15.17	

FIELD SECTION 16

HORIZ. LOC.	VALUE	POSITION AND STATION									
		FS #14	P16-1	P16-2	P16-3	P16-4	P16-5	P16-6	P16-7	P16-8	FS #15
		831+01.73	831+09.56	831+25.23	831+40.90	831+56.56	831+72.23	831+87.90	832+03.56	832+19.23	832+27.06
CAMBER DATA											
1	FG	646.97	646.80	646.45	646.09	645.72	645.34	644.94	644.54	644.12	643.91
	TES	646.08	645.86	645.57	645.26	644.91	644.54	644.13	643.69	643.22	643.05
	ZW	645.96	645.83	645.56	645.26	644.93	644.55	644.14	643.69	643.20	642.95
	CW	645.96	645.77	645.40	645.02	644.65	644.27	643.89	643.52	643.14	642.95
	SW	0.04	0.05	0.07	0.09	0.10	0.10	0.09	0.08	0.06	0.06
LEFT WEB	DL1	0.10	0.13	0.18	0.22	0.24	0.25	0.24	0.21	0.16	0.14
	DL2	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02
	C	0.00	0.06	0.16	0.24	0.28	0.28	0.25	0.17	0.06	0.00
	FG	647.54	647.37	647.02	646.66	646.29	645.91	645.51	645.11	644.69	644.48
	TES	646.65	646.44	646.15	645.83	645.49	645.12	644.70	644.26	643.80	643.63
2	ZW	646.53	646.41	646.14	645.84	645.51	645.13	644.72	644.26	643.78	643.53
	CW	646.53	646.34	645.97	645.59	645.22	644.84	644.47	644.09	643.71	643.53
	SW	0.04	0.05	0.07	0.09	0.10	0.10	0.10	0.08	0.07	0.06
	DL1	0.10	0.13	0.18	0.23	0.25	0.26	0.24	0.21	0.17	0.14
	DL2	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02
RIGHT WEB	C	0.00	0.06	0.17	0.25	0.29	0.29	0.25	0.17	0.06	0.00
	FG	648.11	647.94	647.59	647.23	646.86	646.48	646.08	645.68	645.26	645.05
	TES	647.22	647.01	646.72	646.41	646.07	645.69	645.28	644.84	644.37	644.20
	ZW	647.10	646.98	646.71	646.42	646.08	645.71	645.30	644.84	644.35	644.10
	CW	647.10	646.91	646.54	646.16	645.79	645.41	645.04	644.66	644.29	644.10
3	SW	0.04	0.05	0.07	0.09	0.10	0.10	0.10	0.09	0.07	0.06
	DL1	0.10	0.14	0.19	0.23	0.26	0.26	0.25	0.22	0.17	0.14
	DL2	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02
	C	0.00	0.07	0.17	0.25	0.30	0.30	0.26	0.18	0.06	0.00
	FG	648.68	648.51	648.16	647.80	647.43	647.05	646.65	646.25	645.83	645.62
4	TES	647.79	647.59	647.30	646.99	646.64	646.27	645.86	645.42	644.94	644.77
	ZW	647.67	647.56	647.29	646.99	646.66	646.29	645.88	645.42	644.92	644.68
	CW	647.67	647.48	647.11	646.74	646.36	645.99	645.61	645.24	644.86	644.68
	SW	0.04	0.05	0.07	0.09	0.10	0.11	0.10	0.09	0.07	0.06
	DL1	0.10	0.14	0.19	0.24	0.26	0.27	0.26	0.22	0.17	0.15
RIGHT WEB	DL2	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.02
	C	0.00	0.07	0.18	0.26	0.30	0.31	0.26	0.18	0.06	0.00
BLOCKING HEIGHTS											
5	BLK	13.56									10.55
6		13.97									10.96
7		14.76									11.77
8		15.17									12.18



HORIZONTAL LOCATION KEY
LOOKING UPSTATION

LEGEND:

FOR LEGEND SEE CAMBER DIAGRAM UNIT 2

NOTES:

FOR NOTES SEE CAMBER DIAGRAM UNIT 2

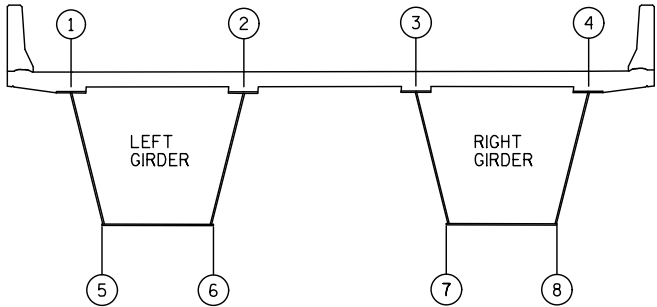
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY		ZMG	PLANS CK'D. MAD
CAMBER DATA: FIELD SECTION #15 & #16			SHEET 49 OF 50

FIELD SECTION 17

HORIZ. LOC.	VALUE	POSITION AND STATION								
		FS #15	P17-1	P17-2	P17-3	PIER 9	P17-5	P17-6	P17-7	FS #14
		832+27.06	832+34.90	832+50.56	832+66.23	832+81.90	832+98.90	833+15.90	833+32.90	833+41.40
CAMBER DATA										
1 LEFT GIRDER	FG	643.91	643.69	643.25	642.80	642.34	641.82	641.29	640.75	640.47
	TES	643.05	642.77	642.27	641.85	641.36	640.84	640.27	639.76	639.55
	ZW	642.95	642.70	642.18	641.67	641.17	640.66	640.16	639.67	639.43
	CW	642.95	642.71	642.23	641.74	641.26	640.74	640.21	639.69	639.43
	SW	0.06	0.05	0.03	0.01	0.00	0.00	0.01	0.02	0.03
LEFT WEB	DL1	0.14	0.11	0.06	0.02	0.00	0.00	0.02	0.06	0.08
	DL2	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01
	C	0.00	-0.01	-0.04	-0.07	-0.09	-0.08	-0.05	-0.01	0.00
2 LEFT GIRDER	FG	644.48	644.26	643.82	643.37	642.91	642.39	641.86	641.32	641.04
	TES	643.62	643.34	642.84	642.42	641.93	641.41	640.84	640.34	640.12
	ZW	643.52	643.27	642.76	642.24	641.74	641.22	640.73	640.25	640.00
	CW	643.52	643.28	642.80	642.31	641.83	641.31	640.78	640.26	640.00
	SW	0.06	0.05	0.03	0.01	0.00	0.00	0.01	0.02	0.03
RIGHT WEB	DL1	0.14	0.12	0.07	0.02	0.00	0.00	0.03	0.06	0.08
	DL2	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.01	0.01
	C	0.00	-0.01	-0.04	-0.07	-0.09	-0.08	-0.05	-0.01	0.00
3 RIGHT GIRDER	FG	645.05	644.83	644.39	643.94	643.48	642.96	642.43	641.89	641.61
	TES	644.19	643.91	643.42	642.99	642.50	641.98	641.41	640.91	640.69
	ZW	644.09	643.85	643.33	642.81	642.31	641.80	641.30	640.82	640.57
	CW	644.09	643.85	643.37	642.89	642.40	641.88	641.36	640.83	640.57
	SW	0.06	0.05	0.03	0.01	0.00	0.00	0.01	0.03	0.03
LEFT WEB	DL1	0.14	0.12	0.07	0.03	0.00	0.00	0.03	0.06	0.08
	DL2	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.01	0.01
	C	0.00	0.00	-0.04	-0.07	-0.09	-0.09	-0.05	-0.02	0.00
4 RIGHT GIRDER	FG	645.62	645.40	644.96	644.51	644.05	643.53	643.00	642.46	642.18
	TES	644.76	644.49	643.99	643.56	643.07	642.55	641.98	641.48	641.27
	ZW	644.66	644.42	643.90	643.38	642.88	642.36	641.87	641.39	641.14
	CW	644.66	644.42	643.94	643.46	642.98	642.45	641.93	641.41	641.14
	SW	0.06	0.05	0.03	0.01	0.00	0.00	0.01	0.03	0.03
RIGHT WEB	DL1	0.14	0.12	0.07	0.03	0.00	0.00	0.03	0.07	0.09
	DL2	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.01	0.01
	C	0.00	0.00	-0.04	-0.07	-0.10	-0.09	-0.05	-0.02	0.00
BLOCKING HEIGHTS										
5	BLK	10.55				8.77				7.02
6		10.96				9.18				7.44
7		11.77				9.98				8.24
8		12.18				10.40				8.66

FIELD SECTION 18

HORIZ. LOC.	VALUE	POSITION AND STATION								
		FS #14	P18-1	P18-2	P18-3	P18-4	P18-5	P18-6	N. ABUT.	
		833+41.40	833+49.90	833+66.90	833+83.90	834+00.90	834+17.90	834+34.90	834+51.90	
CAMBER DATA										
1 LEFT GIRDER	FG	640.47	640.19	639.62	639.04	638.44	637.83	637.21	636.57	
	TES	639.55	639.22	638.68	638.11	637.50	636.86	636.19	635.49	
	ZW	639.43	639.17	638.64	638.08	637.47	636.81	636.12	635.40	
	CW	639.43	639.12	638.50	637.88	637.26	636.64	636.02	635.40	
	SW	0.03	0.04	0.05	0.05	0.05	0.04	0.02	0.00	
LEFT WEB	DL1	0.08	0.10	0.12	0.14	0.13	0.10	0.05	0.00	
	DL2	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.00	
	C	0.00	0.06	0.15	0.20	0.21	0.17	0.10	0.00	
2 LEFT GIRDER	FG	641.04	640.76	640.19	639.61	639.01	638.40	637.78	637.14	
	TES	640.12	639.79	639.25	638.68	638.07	637.43	636.76	636.06	
	ZW	640.00	639.75	639.22	638.65	638.04	637.39	636.70	635.97	
	CW	640.00	639.69	639.07	638.45	637.83	637.21	636.59	635.97	
	SW	0.03	0.04	0.05	0.05	0.05	0.04	0.02	0.00	
RIGHT WEB	DL1	0.08	0.10	0.13	0.14	0.13	0.10	0.06	0.00	
	DL2	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.00	
	C	0.00	0.06	0.15	0.20	0.21	0.18	0.10	0.00	
3 RIGHT GIRDER	FG	641.61	641.33	640.76	640.18	639.58	638.97	638.35	637.71	
	TES	640.69	640.36	639.83	639.26	638.65	638.01	637.33	636.63	
	ZW	640.57	640.32	639.79	639.23	638.62	637.96	637.27	636.54	
	CW	640.57	640.26	639.64	639.02	638.40	637.78	637.16	636.54	
	SW	0.03	0.04	0.05	0.06	0.05	0.04	0.02	0.00	
LEFT WEB	DL1	0.08	0.10	0.13	0.14	0.13	0.11	0.06	0.00	
	DL2	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.00	
	C	0.00	0.06	0.16	0.21	0.22	0.18	0.11	0.00	
4 RIGHT GIRDER	FG	642.18	641.90	641.33	640.75	640.15	639.54	638.92	638.28	
	TES	641.26	640.94	640.40	639.83	639.22	638.58	637.90	637.20	
	ZW	641.14	640.89	640.37	639.80	639.19	638.54	637.84	637.11	
	CW	641.14	640.83	640.21	639.59	638.97	638.35	637.73	637.11	
	SW	0.03	0.04	0.05	0.06	0.05	0.04	0.02	0.00	
RIGHT WEB	DL1	0.08	0.10	0.14	0.15	0.14	0.11	0.06	0.00	
	DL2	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.00	
	C	0.00	0.07	0.16	0.22	0.22	0.19	0.11	0.00	
BLOCKING HEIGHTS										
5	BLK	7.02							3.00	
6		7.44							3.42	
7		8.24							4.22	
8		8.66							4.64	



HORIZONTAL LOCATION KEY
LOOKING UPSTATION

LEGEND:
FOR LEGEND SEE CAMBER DIAGRAM UNIT 2
NOTES:
FOR NOTES SEE CAMBER DIAGRAM UNIT 2

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-5-658			
DRAWN BY		ZMG	PLANS CK'D. MAD
CAMBER DATA: FIELD SECTION #17 & #18			SHEET 50 OF 50