

GENERAL NOTES

CONSTRUCTION SPECIFICATIONS

- ALL MATERIAL AND WORKMANSHIP TO BE IN ACCORDANCE WITH THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2011, WITH ITS LATEST REVISIONS, AND THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 6TH EDITION WITH INTERIMS THROUGH 2012.

MATERIAL SPECIFICATION

- ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO M270 GRADE 50W.
- MATERIAL NOTED "T2" ON DETAIL DRAWINGS SHALL BE CHARPY V-NOTCH TESTED IN ACCORDANCE WITH SUBSECTION 714.01.
- HIGH STRENGTH BOLTS SHALL BE ASTM A325, TYPE 3, WITH ASTM A563 DH3 NUTS AND ONE ASTM F436 TYPE 3 WASHER PER BOLT. ROTATIONAL CAPACITY TESTING SHALL BE REQUIRED FOR ALL BOLT ASSEMBLIES.

FABRICATION

- THE BOTTOM FLANGE OF GIRDERS AT BEARINGS SHALL BE SHOP STRAIGHTENED AS REQUIRED TO PROVIDE UNIFORM CONTACT BETWEEN THE GIRDER FLANGE AND THE BEARINGS AT THE BRIDGE SEAT. NOTED AS "BRG. AREA" ON DETAILS.

SHOP WELDING AND TESTING

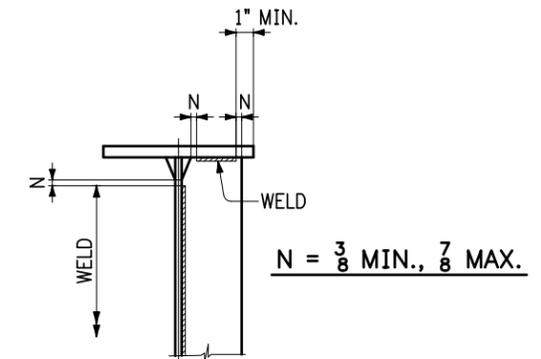
- WELDING AND NON-DESTRUCTIVE TESTING SHALL BE IN ACCORDANCE WITH ANSI/AASHTO/AWS BRIDGE WELDING CODE, D1.5 (LATEST EDITION).
- FOR WELDING CONNECTION PLATES TO GIRDERS SEE "TYP. WELD TERMINATION DETAIL".
- NON-DESTRUCTIVE TESTING OF WELDS SHALL BE IN ACCORDANCE WITH THE REFERENCED SPECIFICATIONS.

SHOP CLEANING

- BLAST CLEAN ALL STEEL TO SSPC-SP10 (NEAR WHITE) EITHER BEFORE OR AFTER FABRICATION.

SHOP PAINTING

- NO PAINT



TYP. WELD TERMINATION DETAIL

Vermont Agency of Transportation

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BY: **D Bonneau** DATE: **02/05/15**

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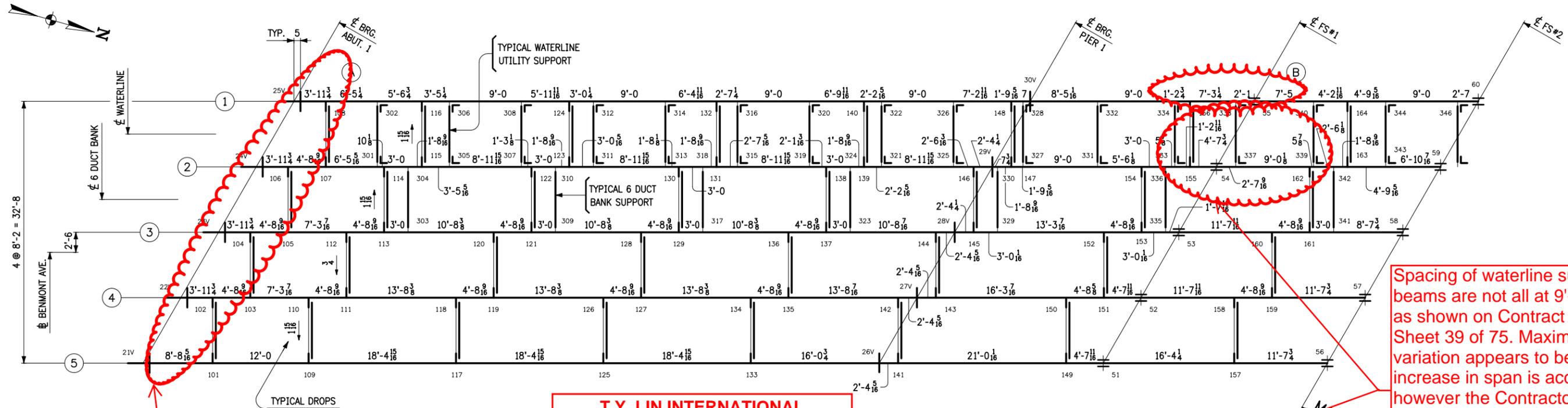
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RICK HEBERT
REVIEWER

2/2/2015
DATE

NO.	DATE	REMARKS	BY
REVISIONS			
		CASCO BAY STEEL STRUCTURES <small>ONE WALLACE AVENUE PHONE: 207-780-6722 SOUTH PORTLAND, ME 04106 FAX: 207-780-6726</small>	
STRUCTURE <u>BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)</u>			
LOCATION <u>TOWN OF BENNINGTON, VERMONT</u>			
PROJECT NO. <u>BRIDGE NO. 57 PROJECT NO. BRF 1000(16)</u>			
ENGINEER <u>STATE OF VERMONT AGENCY OF TRANSPORTATION</u>			
CUSTOMER <u>ALPINE CONSTRUCTION</u>			
ITEM <u>GENERAL NOTES</u>			
SURFACE PREP. <u>OPEN HOLES</u>			
PAINT _____			
APPROVAL	DRAWN	DMM	12-19-14
SHOP	CHECKED	FM	12-31-14
SHEET NO. GN1		JOB NO. 605	



Spacing of waterline support beams are not all at 9'-0" spaces as shown on Contract Drawing Sheet 39 of 75. Maximum variation appears to be 9". The increase in span is acceptable, however the Contractor should refer to the Special Provision (Water Main on Bridge) to ensure compliance with the hanger distance to pipe joint requirements are also met.

To clarify, Dimensions are OK to CL Bearing and not to bearing stiffener (typ)

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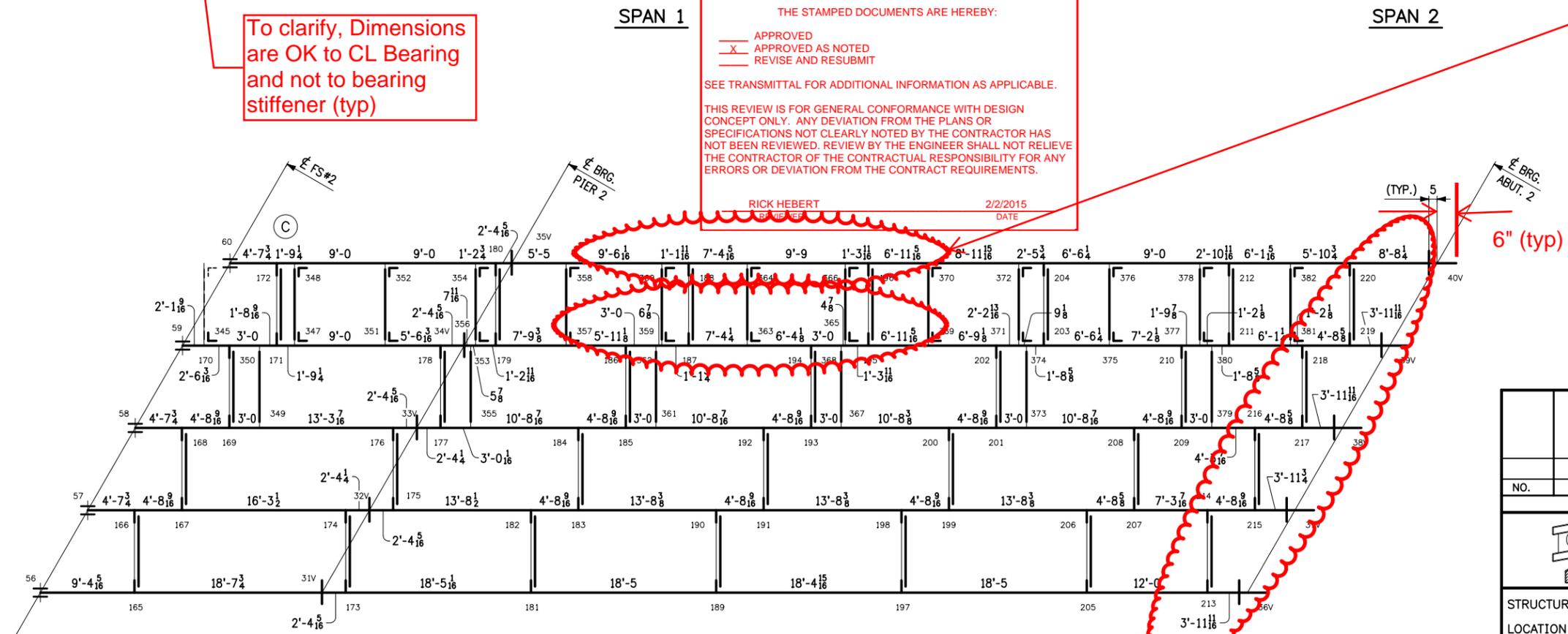
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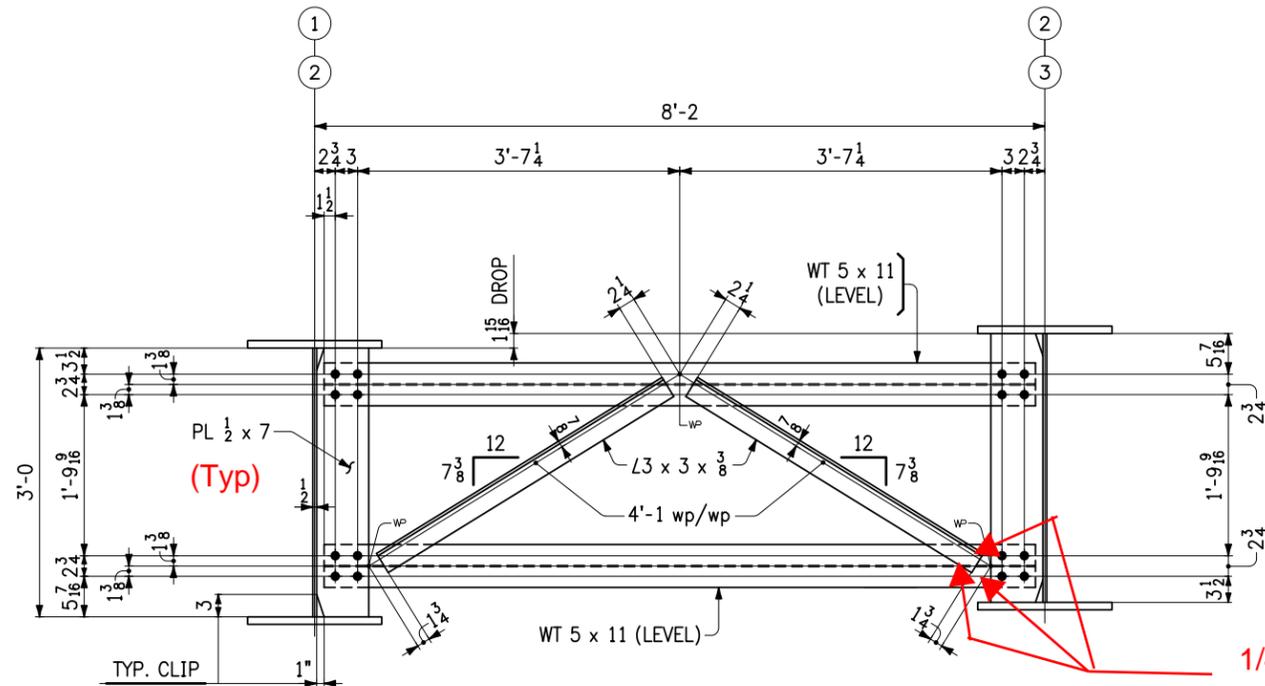
- NOTES:**
1. LONGITUDINAL DIMS. ARE SLOPING ALONG BOTTOM OF WEB IN CAMBERED POSITION.
 2. TRANSVERSE DIMS. ARE HORIZONTAL.
 3. → DENOTES DROP (FINAL). ARROW POINTS TO LOW END.
 4. BEARING STIFFENERS AND ENDS OF GIRDERS ARE VERTICAL IN FINAL POSITION.
 5. INT. CONN. PLATES ARE NORMAL TO BOTTOM FLANGE.
 6. FOR LAYOUTS SEE DWG. TD1 & TD2.



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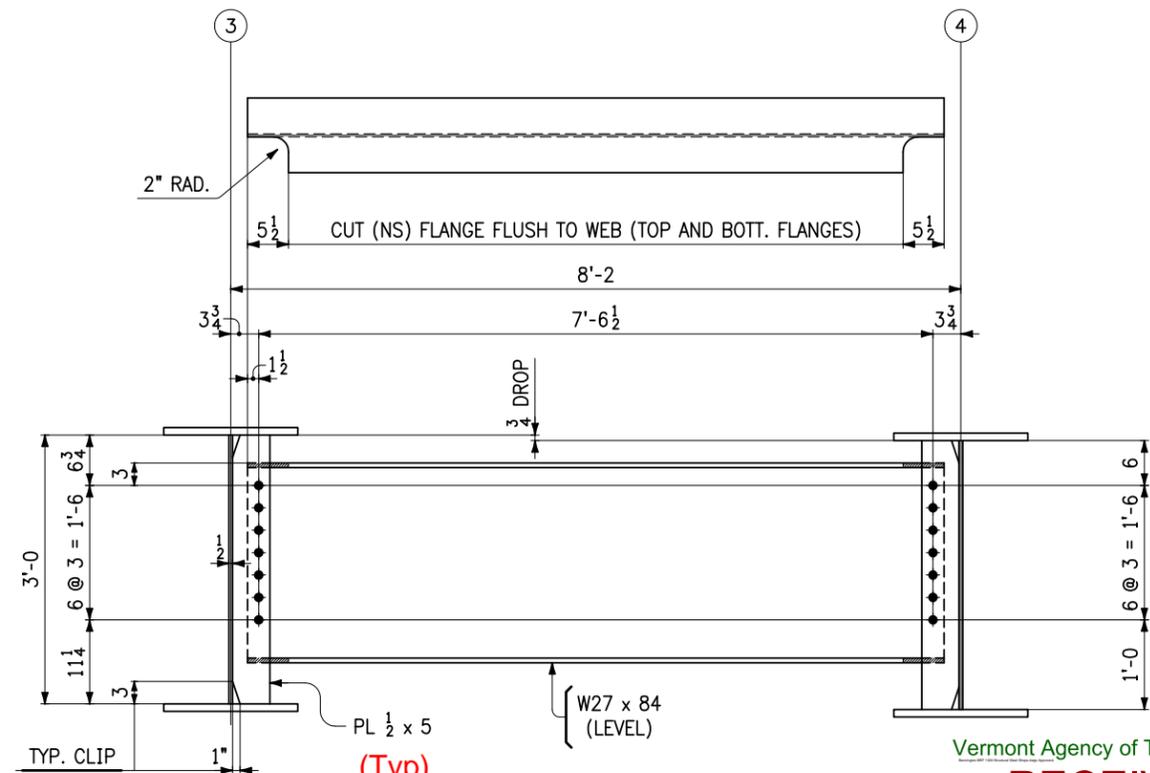
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ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		CALC PLAN	
SURFACE PREP.		OPEN HOLES	
PAINT			
APPROVAL	DRAWN	12-2-14	SHEET NO.
SHOP	CHECKED	12-5-14	WS1
		JOB NO.	
		605	



**TYPE A CROSSFRAME
BETWEEN GIRDERS 1, 2 & 3
(LOOKING UPSTATION)**

1/4" Fillet Weld, 6" minimum Length Typ



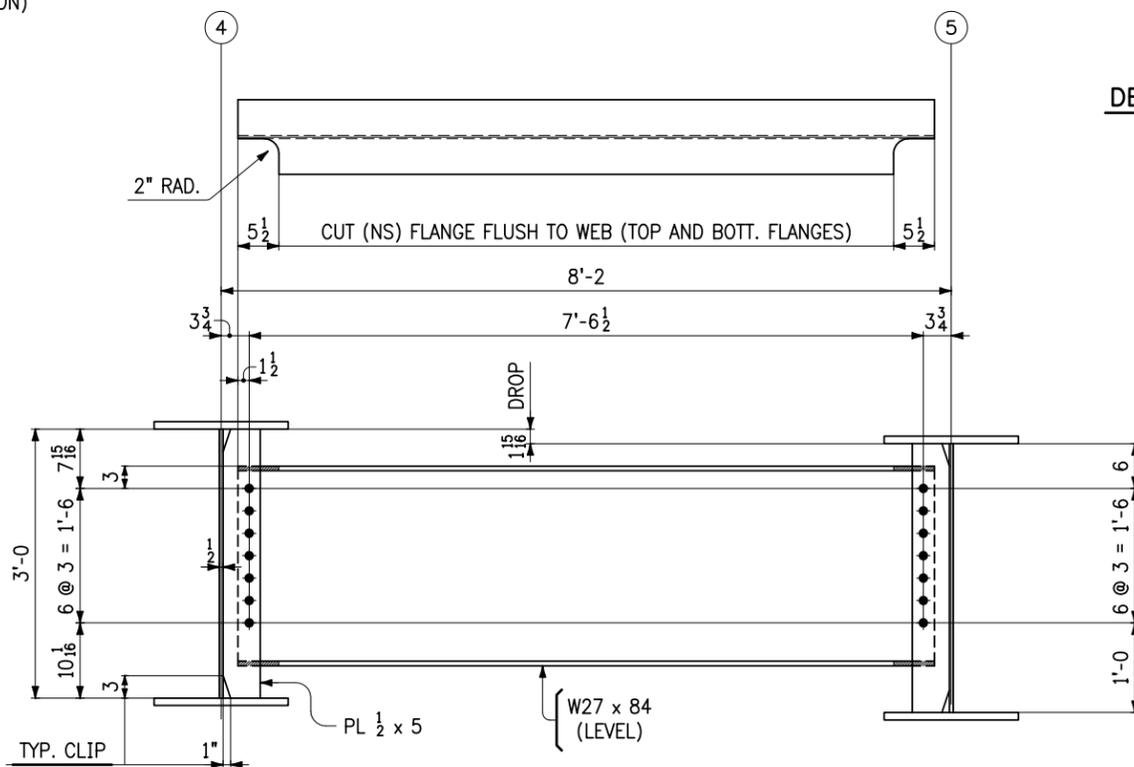
**TYPE B DIAPHRAGM
BETWEEN GIRDERS 3 & 4
(LOOKING UPSTATION)**

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DETAILER NOTE FOR TYPE B DIAPHRAGMS BETWEEN GIRDERS 3 & 4:

1. HOLES IN CONNECTION PLATES SHALL BE 1 1/8" FOR 7/8" BOLTS.
2. BOLTS SHALL NOT BE TIGHTENED UNTIL AFTER PHASE III DECK CONCRETE HAS BEEN POURED.

Two washers required. One each side of connection



**TYPE B DIAPHRAGM
BETWEEN GIRDERS 4 & 5
(LOOKING UPSTATION)**

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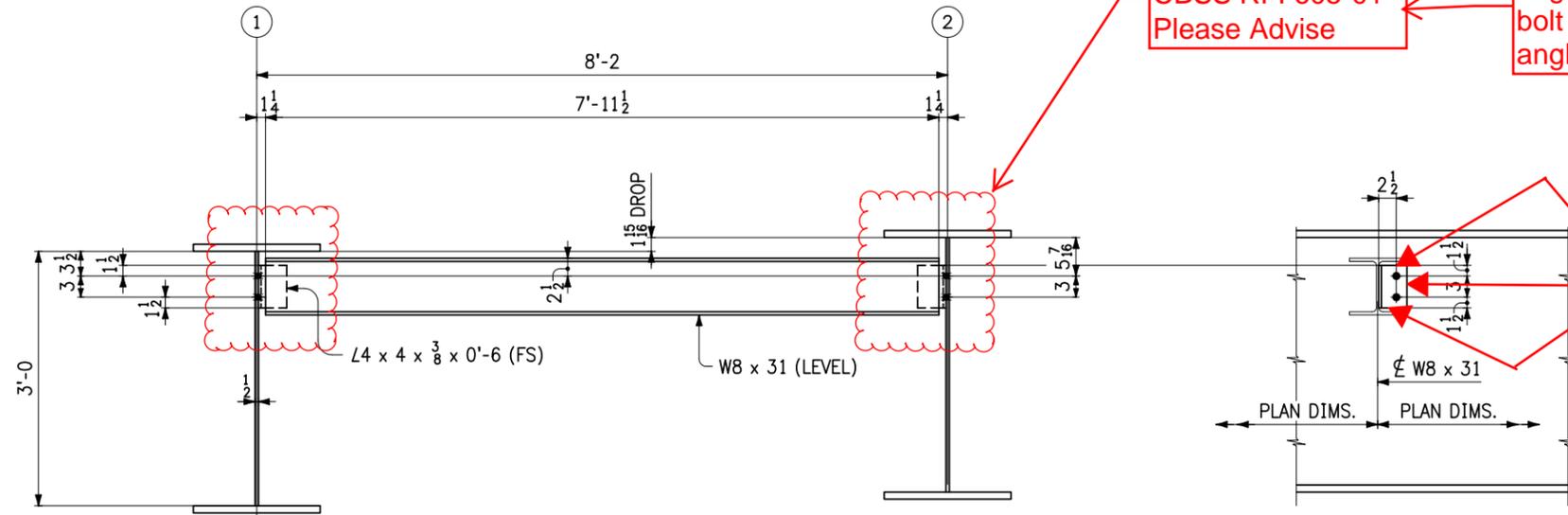
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RICK HEBERT 2/2/2015
REVIEWER DATE

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CUSTOMER <u>ALPINE CONSTRUCTION</u>			
ITEM <u>LAYOUTS</u>			
SURFACE PREP. <u>OPEN HOLES 1 1/8" HOLES FOR 7/8" BOLTS (UN)</u>			
PAINT _____			
APPROVAL	DRAWN <u>WCG</u>	12-2-14	SHEET NO. <u>TD1</u>
SHOP	CHECKED <u>CS</u>	12-3-14	JOB NO. <u>605</u>



CBSS RFI 605-01
Please Advise

Shop weld connection
angle to web and field
bolt W8 to connection
angles

Shop weld connection
angle to web

**WATERLINE UTILITY SUPPORT
BETWEEN GIRDERS 1 & 2**
(LOOKING UPSTATION)

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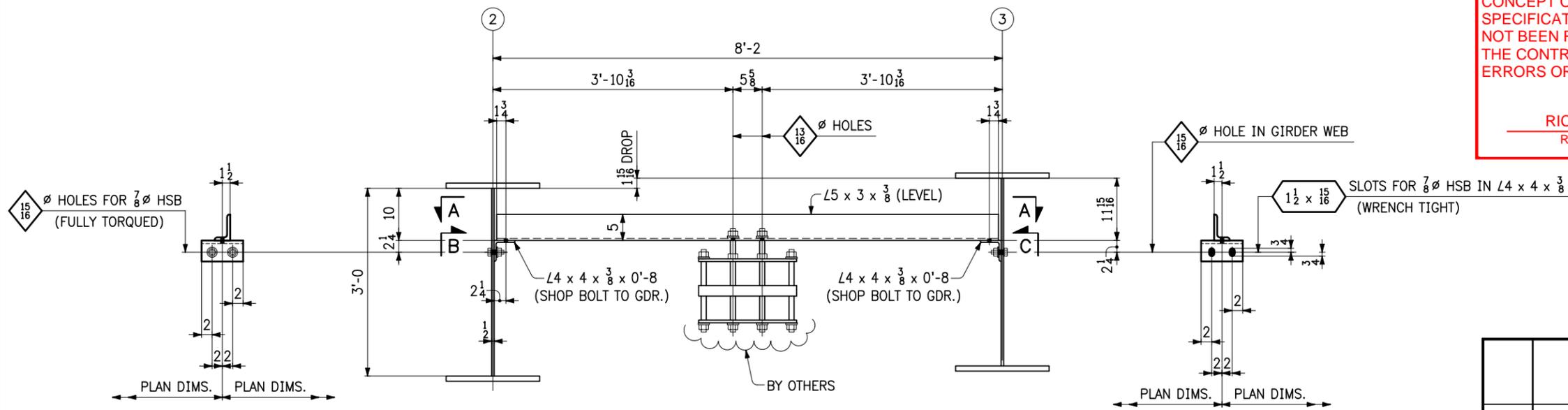
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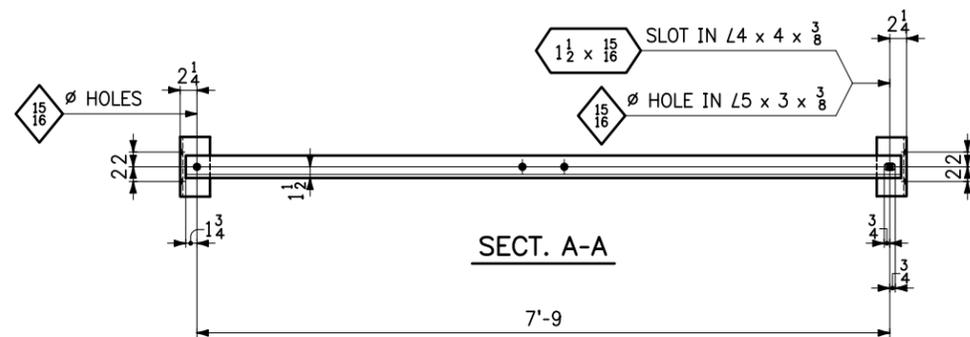
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SECT. B

SECT. C



SECT. A-A

**6" DUCT BANK SUPPORT
BETWEEN GIRDERS 2 & 3**
(LOOKING UPSTATION)

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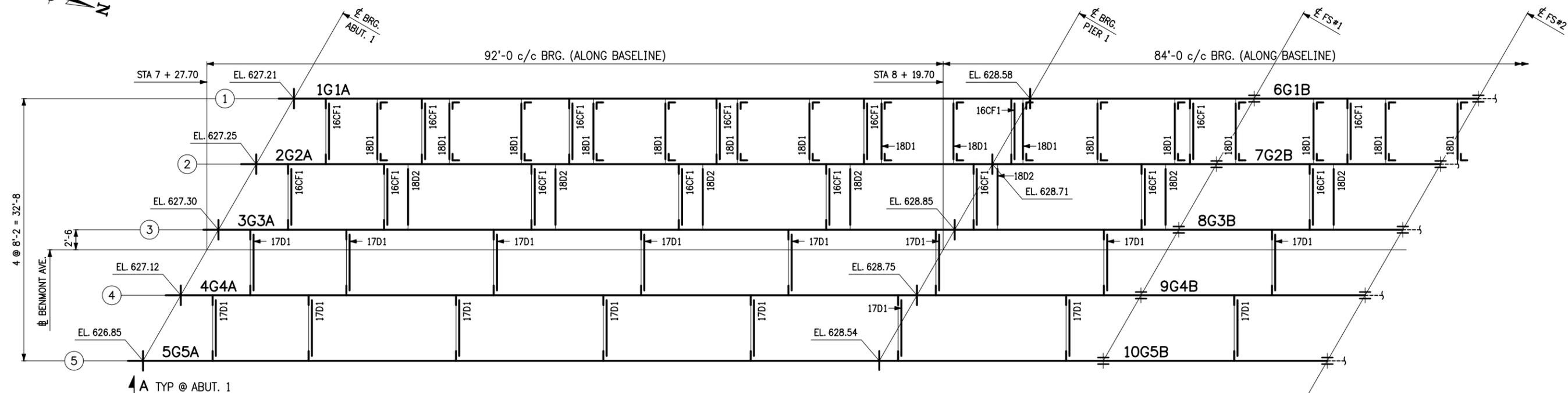
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CUSTOMER		ALPINE CONSTRUCTION	
ITEM		LAYOUTS	
SURFACE PREP.		OPEN HOLES 1/8" HOLES FOR 3/4" BOLTS	
PAINT			
APPROVAL	DRAWN	DATE	SHEET NO.
SHOP	WCG	12-2-14	TD2
	CHECKED	12-3-14	JOB NO.
	<i>LC</i>		605



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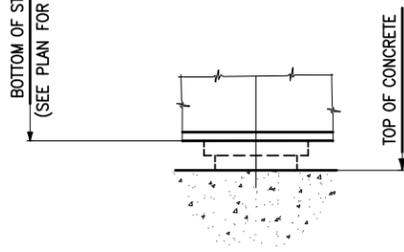
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CONTRACTOR NOTE:

ELEVATIONS ARE GIVEN TO BOTTOM OF STEEL - DO NOT POUR TO FINAL ELEVATIONS WITHOUT VERIFICATION OF BEARING HEIGHTS AND BRIDGE SEATS.

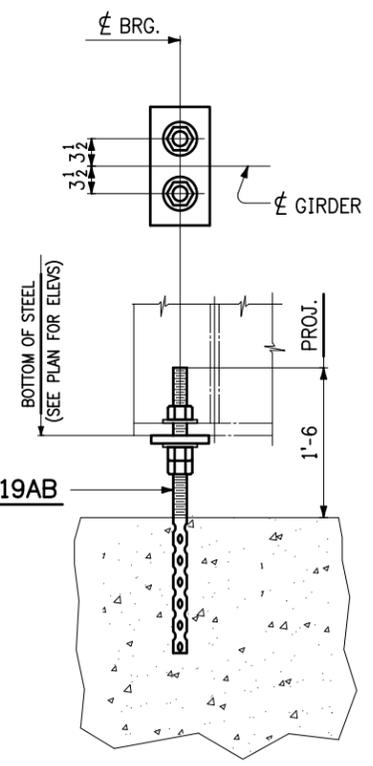


TYP. PIER ELEVATION

SPAN 1

ERECTION PLAN

SPAN 2



SECT. A

NOTES:

1. FOR GENERAL NOTES, SEE DWG. GN1.
2. ALL DIMENSIONS ARE GIVEN IN A HORIZONTAL PLANE.

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CUSTOMER <u>ALPINE CONSTRUCTION</u>			
ITEM <u>ERECTION PLAN</u>			
SURFACE PREP. <u>OPEN HOLES</u>			
PAINT _____			
APPROVAL	DRAWN <u>MAY</u> 12-3-14	SHEET NO. <u>E1</u>	JOB NO. <u>605</u>
SHOP	CHECKED <u>FM</u> 1-6-15		

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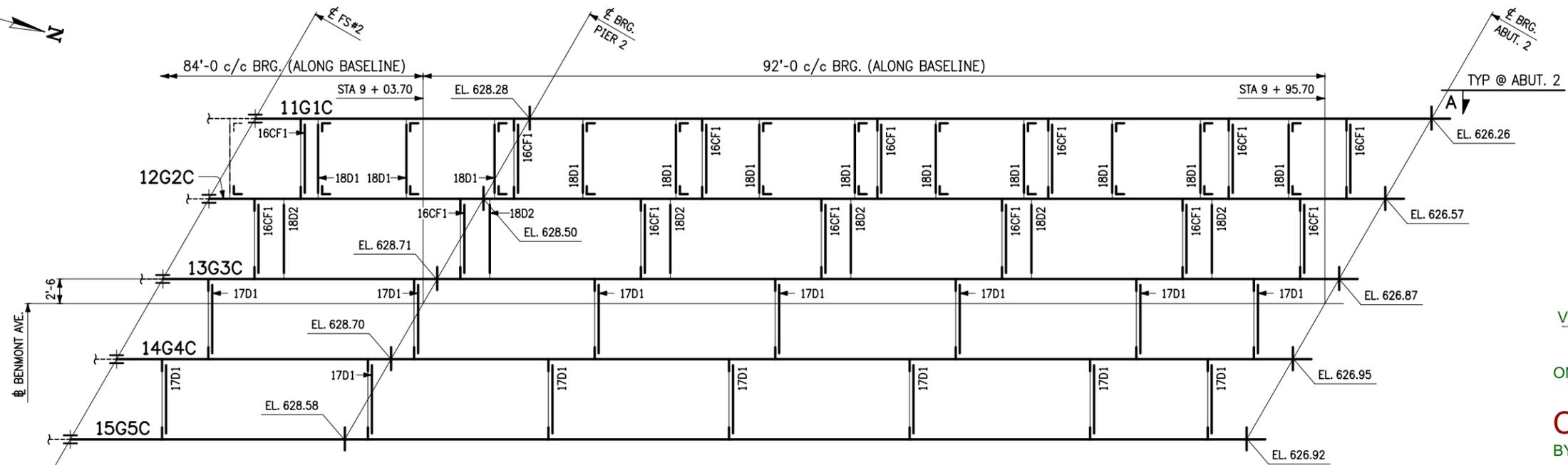
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SPAN 3

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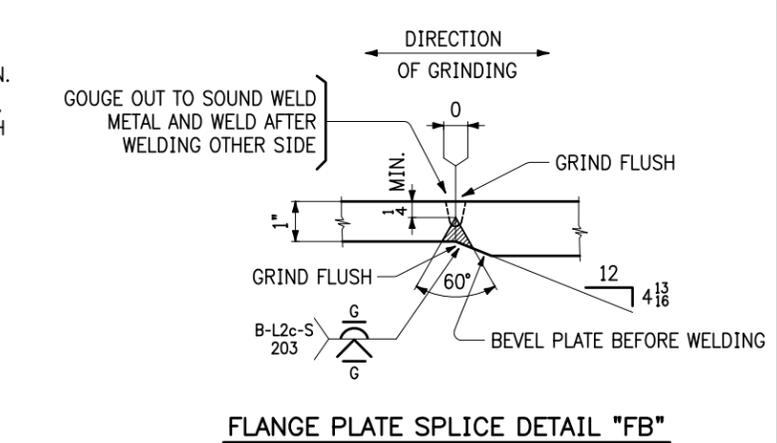
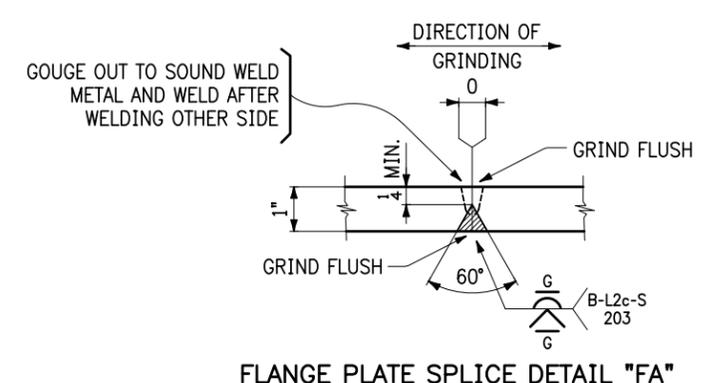
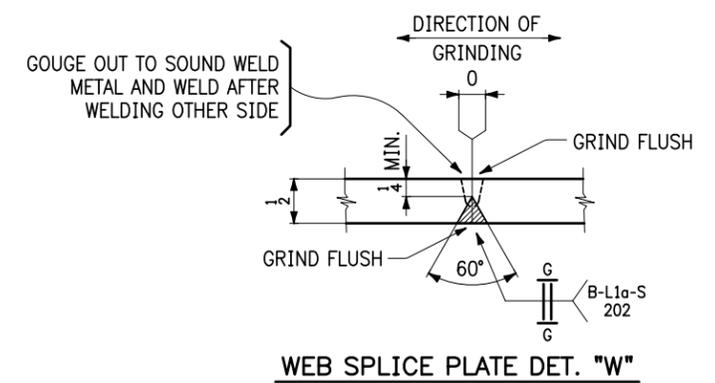
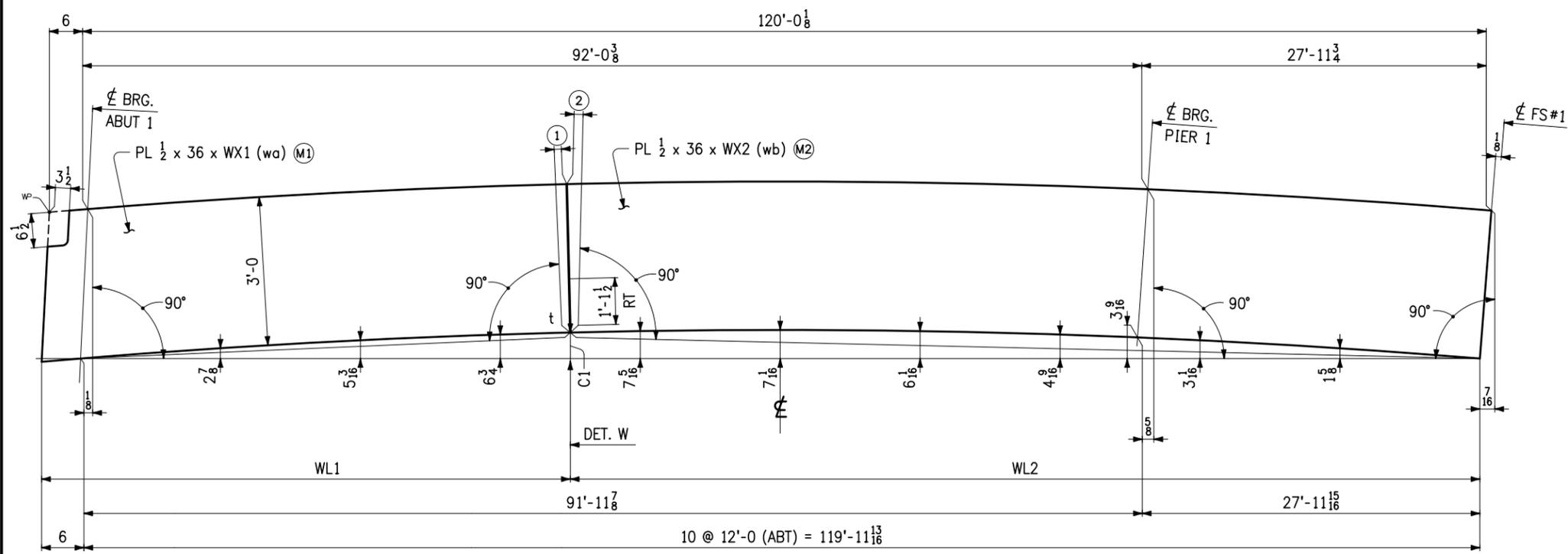
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FIELD BOLT LIST							A325 TYPE 3 BOLTS					WASH CODE	PIECES CONNECTED AND REMARKS
LINE	NO. REQ'D.	BOLT DIAM.	BOLT LEN.	BOLTS /CONN.	# OF CONN.	GRIP	THICKNESS OF PCS. CONNECTED						
FIELD SPLICES													
2	480	7/8	3 3/4	48	10	2 1/2	3/4	1"	3/4			1	TOP FLANGE SPLICE
3	600	7/8	2 3/4	60	10	1 1/2	1/2	1/2	1/2			1	WEB SPLICE
4	480	7/8	3 3/4	48	10	2 1/2	3/4	1"	3/4			1	BOTTOM FLANGE SPLICE
DIAPHRAGMS													
7	112	3/4	2	4	28	7/8	3/8	1/2				1	WATERLINE UTILITY SUPPORTS TO GDR'S
8	26	7/8	2	2	13	3/4	3/8	3/8				1	6" DUCT BANK SUPPORTS TO GDR. CONN. L
9	420	7/8	2 1/4	14	30	1 5/8	7/16	1/2				1	DPH'S BTW. GDR'S 3, 4 & 5 TO CONN. PL'S
CROSSFRAMES													
12	480	7/8	2 1/4	16	30	7/8	3/8	1/2				1	CF'S BTW. GDR'S 1, 2 & 3 TO CONN. PL'S

FIELD BOLT SUMMARY							2% + 3 ADDED, MIN. 3 EXTRA	
LINE	NO. OF BOLTS	BOLT DIAM.	TYPE	BOLT LEN.	ACTUAL COUNT	REMARKS		
1	30	7/8	A325 Type 3	2	26			
2	921	7/8	A325 Type 3	2 1/4	900			
3	615	7/8	A325 Type 3	2 3/4	600			
4	982	7/8	A325 Type 3	3 3/4	960			
8	2548	Hard Flat Washers for 7/8" BOLT			2486	F436-3		
10	117	Hard Flat Washers for 3/4" BOLT			112	F436-3		

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PAINT _____			
APPROVAL	DRAWN <u>MAY</u> 12-3-14	SHEET NO. <u>E2</u>	JOB NO. <u>605</u>
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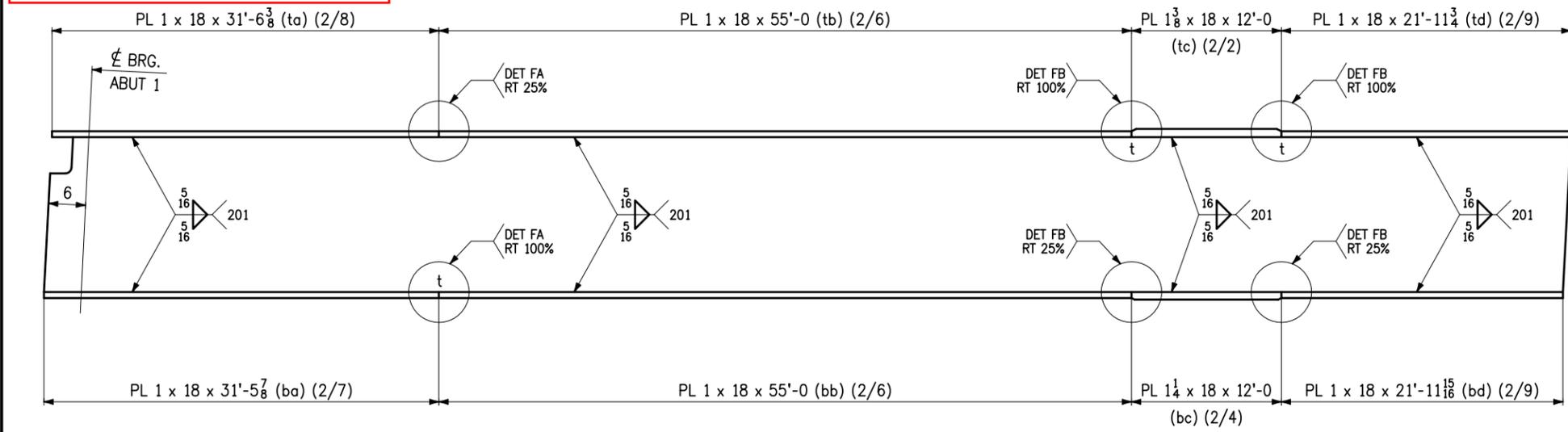


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CAMBER DIAGRAM FOR 1G1A & 2G2A

MARK	WX1	WX2	WL1	WL2	C1	①	②	(M1)	(M2)
1G1A	42'-11 ⁵ / ₁₆	77'-7 ⁹ / ₁₆	42'-10 ⁷ / ₈	77'-6 ¹⁵ / ₁₆	7 ³ / ₁₆	3 ³ / ₈	7 ⁷ / ₁₆	1/17	1/12
2G2A	47'-7 ¹⁵ / ₁₆	72'-10 ⁷ / ₈	47'-7 ⁷ / ₁₆	72'-10 ³ / ₈	7 ⁵ / ₁₆	7 ⁷ / ₁₆	3 ³ / ₈	1/16	1/13

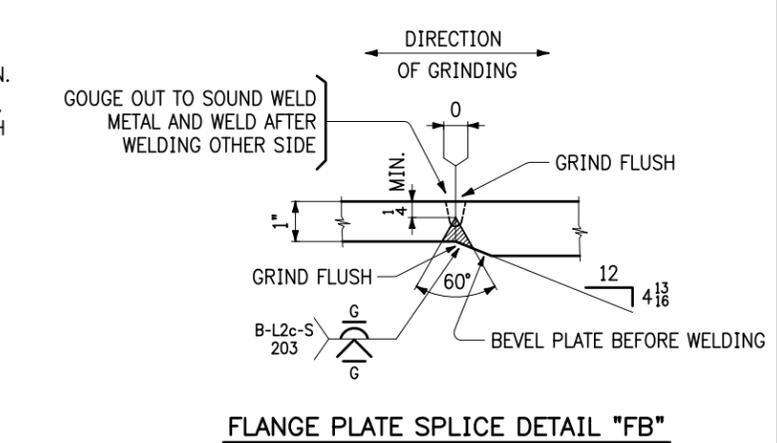
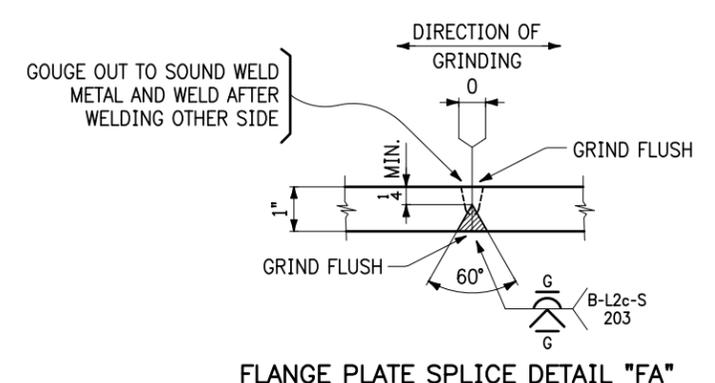
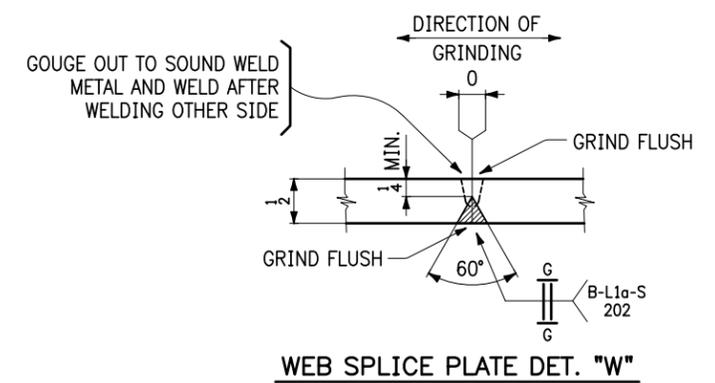
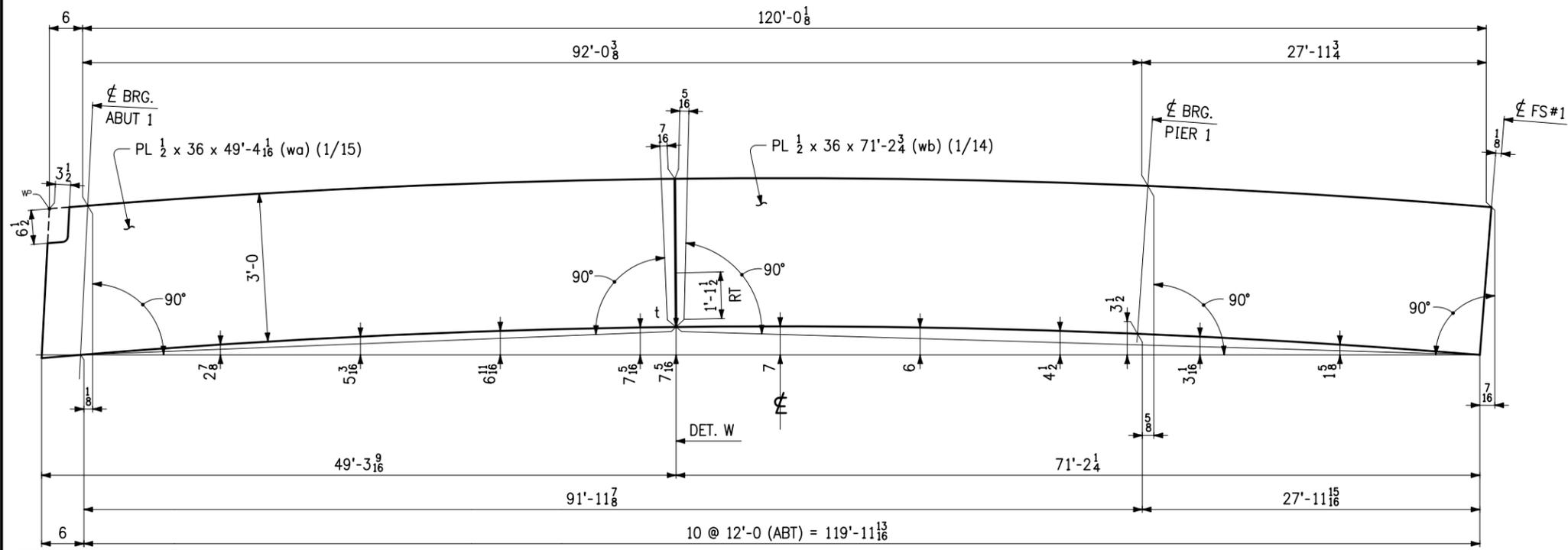
- NOTES:**
- MAT'L: M270-50WT2
 - FOR GENERAL NOTES SEE SHT. GN1.
 - "t" INDICATES WELDS SUBJECT TO TENSION.
 - "RT" DENOTES RADIOGRAPHIC INSPECTION. DIMENSION SHOWN IS 1/6 THE WEB DEPTH PLUS 25% OF THE REMAINDER.



FLANGE DIAGRAM FOR 1G1A & 2G2A

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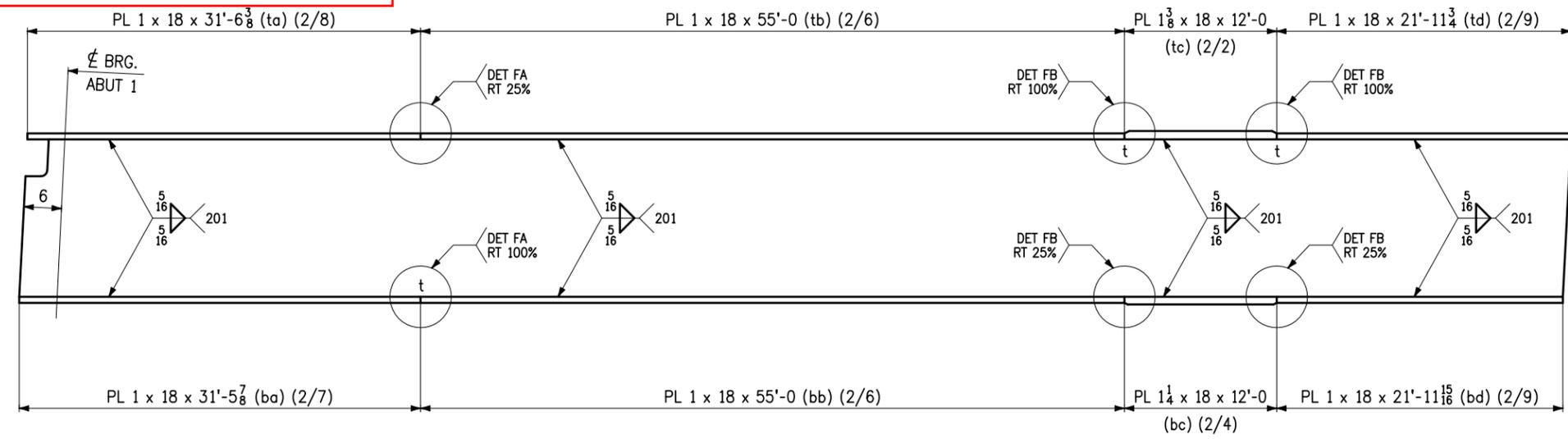
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 RICK HEBERT REVIEWER 2/2/2015 DATE

CAMBER DIAGRAM FOR 3G3A, 4G4A & 5G5A

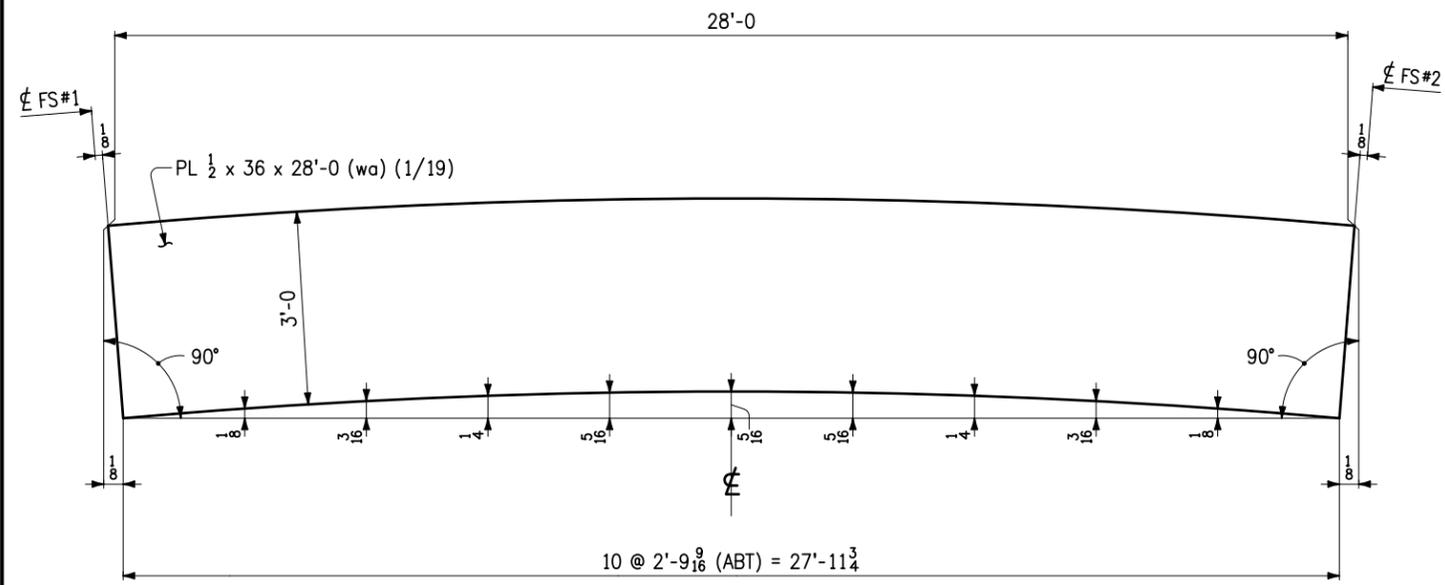
- NOTES:**
- MAT'L: M270-50WT2
 - FOR GENERAL NOTES SEE SHT. GN1.
 - "t" INDICATES WELDS SUBJECT TO TENSION.
 - "RT" DENOTES RADIOGRAPHIC INSPECTION. DIMENSION SHOWN IS 1/6 THE WEB DEPTH PLUS 25% OF THE REMAINDER.



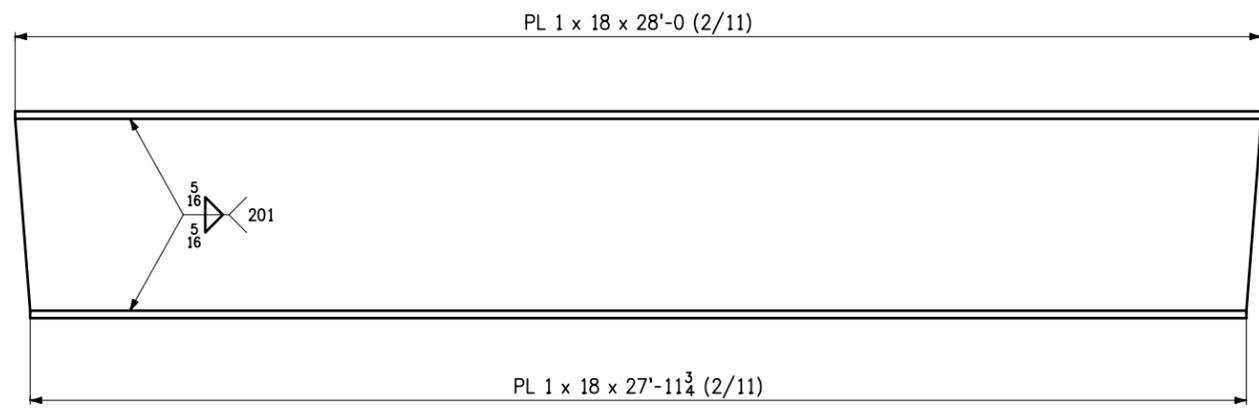
FLANGE DIAGRAM FOR 3G3A, 4G4A & 5G5A

Vermont Agency of Transportation
RECEIVED
 ON: January 14, 2015
 and Checked for
CONFORMANCE
 BY: D Bonneau DATE: 02/05/15

NO.	DATE	REMARKS	BY
REVISIONS			
		CASCO BAY STEEL STRUCTURES ONE WALLACE AVENUE SOUTH PORTLAND, ME 04106 PHONE: 207-780-6722 FAX: 207-780-6726	
STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57 PROJECT NO. BRF 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		WEB & FLANGE CUTTING DIAGRAMS	
SURFACE PREP.		OPEN HOLES	
PAINT			
APPROVAL	DRAWN DMM 12-5-14	SHEET NO. C2	JOB NO. 605
SHOP	CHECKED FM 1-2-15		



CAMBER DIAGRAM FOR 6G1B, 7G2B, 8G3B, 9G4B & 10G5B



FLANGE DIAGRAM FOR 6G1B, 7G2B, 8G3B, 9G4B & 10G5B

T.Y. LIN INTERNATIONAL

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- APPROVED
- APPROVED AS NOTED
- REVISE AND RESUBMIT

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RICK HEBERT
REVIEWER

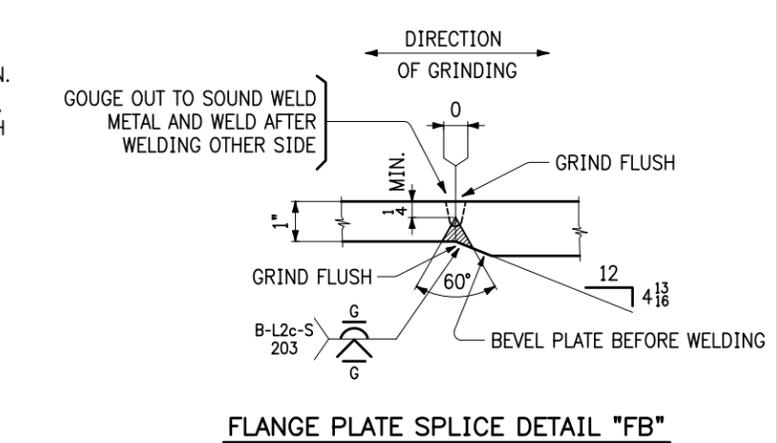
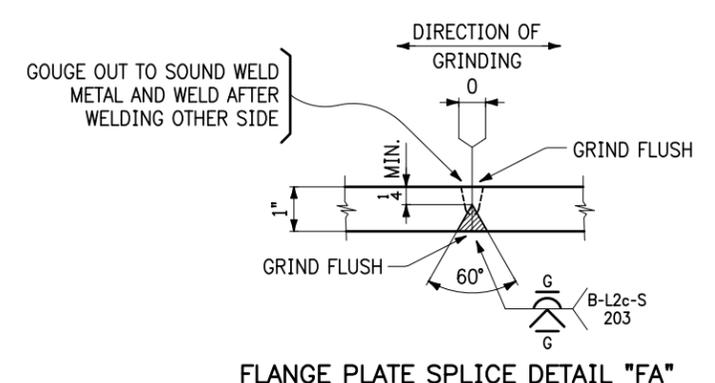
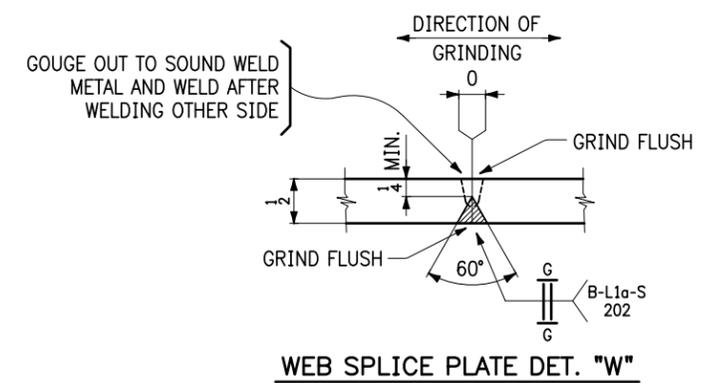
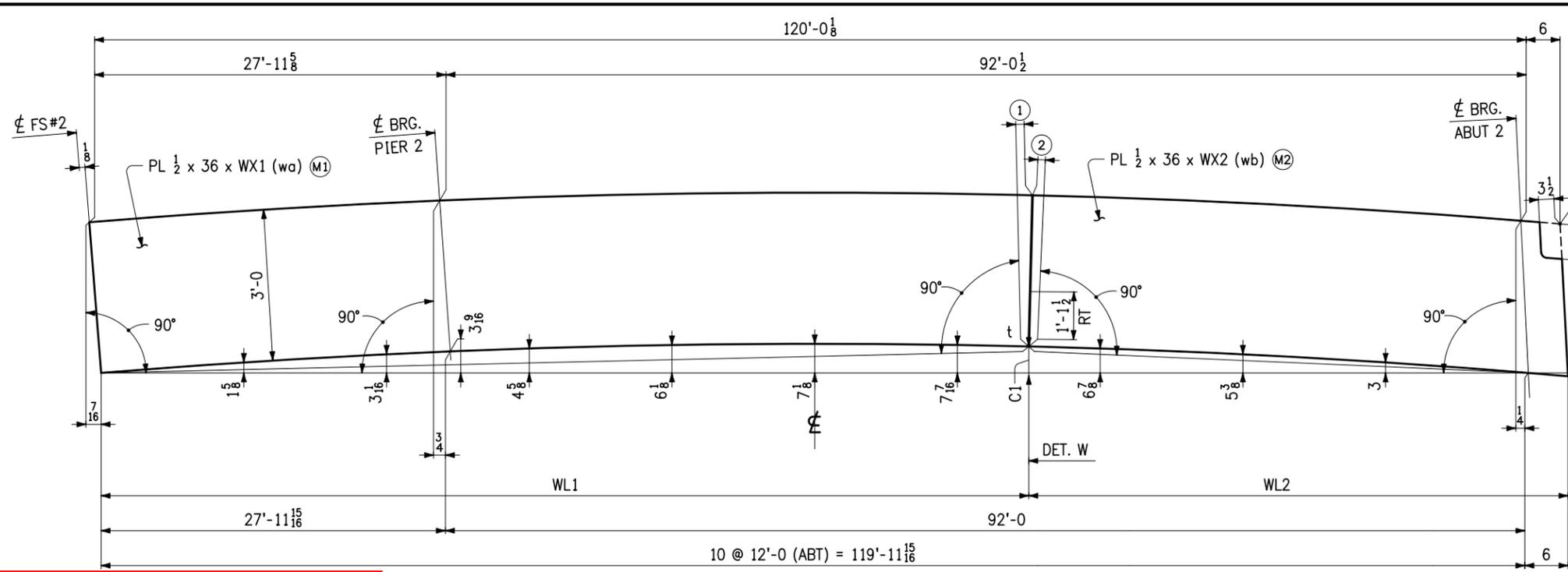
2/2/2015
DATE

NOTES:

1. MAT'L: M270-50WT2
2. FOR GENERAL NOTES SEE SHT. GN1.

Vermont Agency of Transportation
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BY: **D Bonneau** DATE: **02/05/15**

NO.	DATE	REMARKS	BY
REVISIONS			
		CASCO BAY STEEL STRUCTURES <small>ONE WALLACE AVENUE SOUTH PORTLAND, ME 04106</small> <small>PHONE: 207-780-6722 FAX: 207-780-6726</small>	
STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57 PROJECT NO. BRF 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		WEB & FLANGE CUTTING DIAGRAMS	
SURFACE PREP.		OPEN HOLES	
PAINT			
APPROVAL	DRAWN	DMM	12-8-14
SHOP	CHECKED	FM	1-2-15
SHEET NO.		JOB NO.	
C3		605	

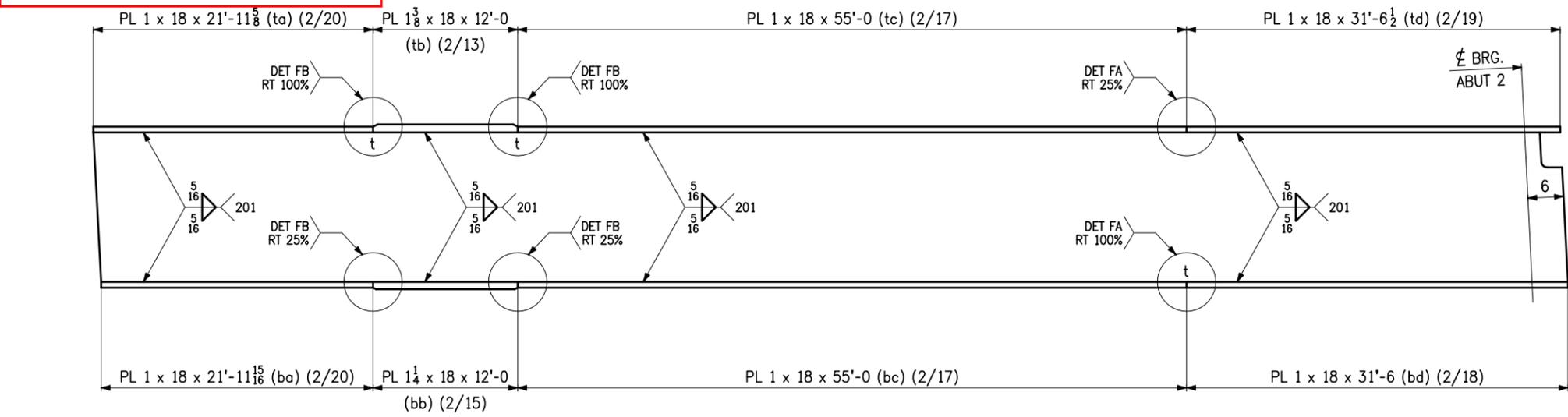


T.Y. LIN INTERNATIONAL
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 RICK HERBERT REVIEWER 2/2/2015 DATE

CAMBER DIAGRAM FOR 11G1C, 12G2C & 13G3C

MARK	WX1	WX2	WL1	WL2	C1	①	②	(M1)	(M2)
11G1C	73'-5 5/8	47'-1 3/8	73'-5 1/16	47'-0 7/8	7 7/16	3/8	7/16	1/23	1/26
12G2C	77'-6 11/16	43'-0 1/4	77'-6 1/8	42'-11 13/16	7 5/16	7/16	3/8	1/21	1/28
13G3C	74'-2 13/16	46'-4 1/8	74'-2 5/16	46'-3 5/8	7 7/16	3/8	7/16	1/22	1/27

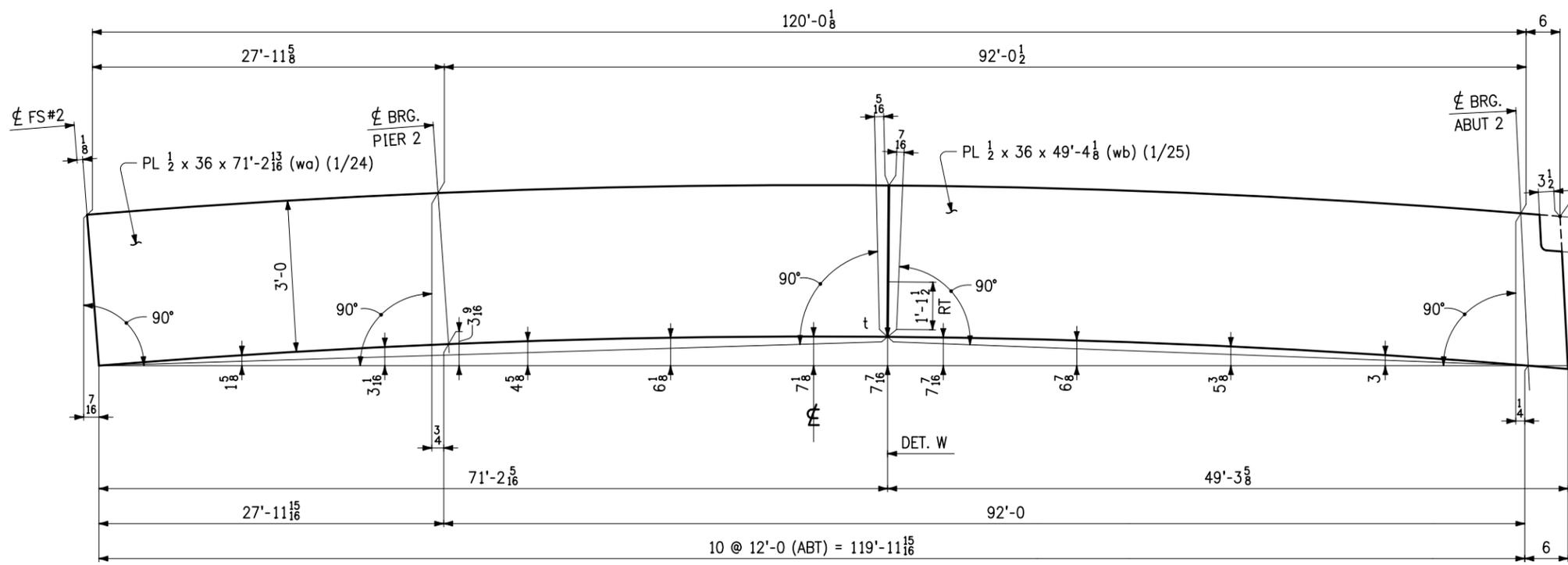
- NOTES:**
- MAT'L: M270-50WT2
 - FOR GENERAL NOTES SEE SHT. GN1.
 - "t" INDICATES WELDS SUBJECT TO TENSION.
 - "RT" DENOTES RADIOGRAPHIC INSPECTION. DIMENSION SHOWN IS 1/6 THE WEB DEPTH PLUS 25% OF THE REMAINDER.



FLANGE DIAGRAM FOR 11G1C, 12G2C & 13G3C

Vermont Agency of Transportation
RECEIVED
 ON: **January 14, 2015**
 and Checked for
CONFORMANCE
 BY: **D Bonneau** DATE: **02/05/15**

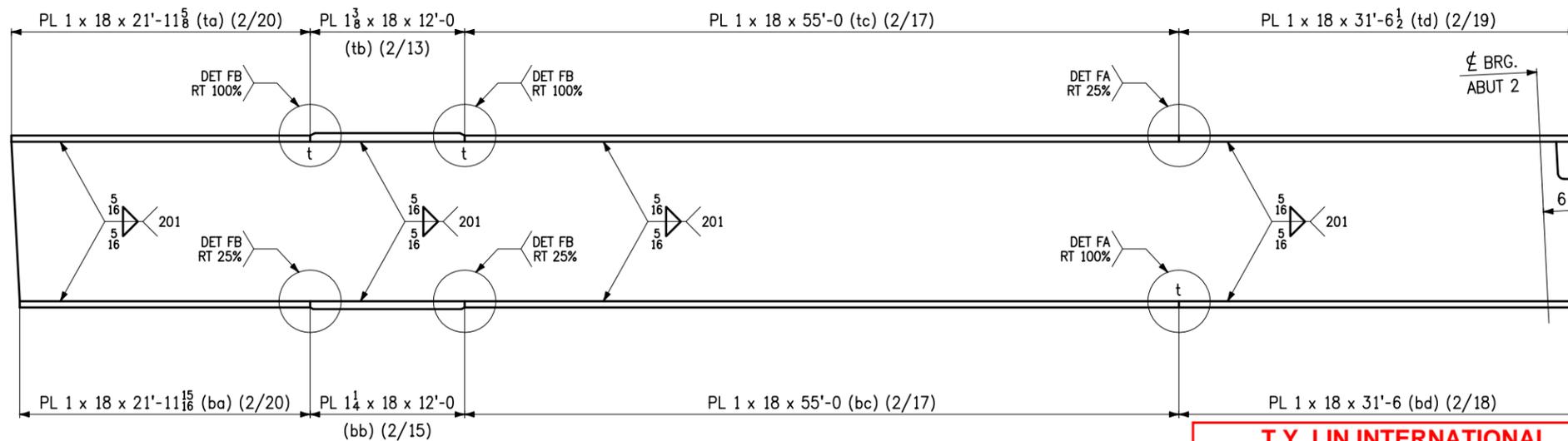
NO.	DATE	REMARKS	BY
REVISIONS			
		CASCO BAY STEEL STRUCTURES ONE WALLACE AVENUE SOUTH PORTLAND, ME 04106 PHONE: 207-780-6722 FAX: 207-780-6726	
STRUCTURE <u>BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)</u>			
LOCATION <u>TOWN OF BENNINGTON, VERMONT</u>			
PROJECT NO. <u>BRIDGE NO. 57 PROJECT NO. BRP 1000(16)</u>			
ENGINEER <u>STATE OF VERMONT AGENCY OF TRANSPORTATION</u>			
CUSTOMER <u>ALPINE CONSTRUCTION</u>			
ITEM <u>WEB & FLANGE CUTTING DIAGRAMS</u>			
SURFACE PREP. <u>OPEN HOLES</u>			
PAINT _____			
APPROVAL	DRAWN <u>DMM</u>	12-5-14	SHEET NO. <u>C4</u>
SHOP	CHECKED <u>FM</u>	1-2-15	JOB NO. <u>605</u>



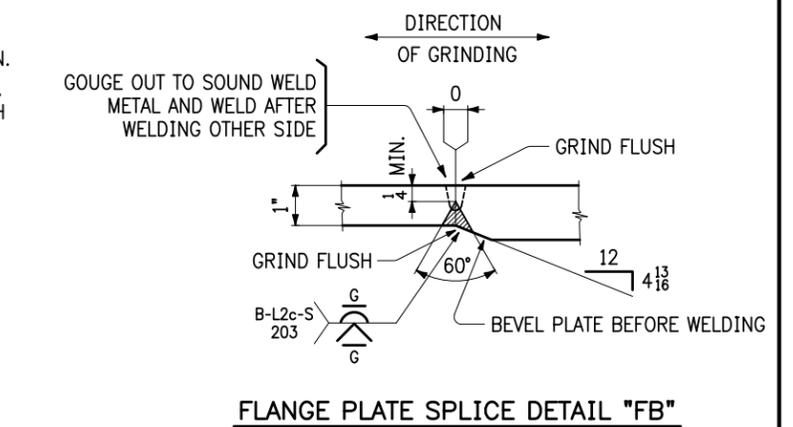
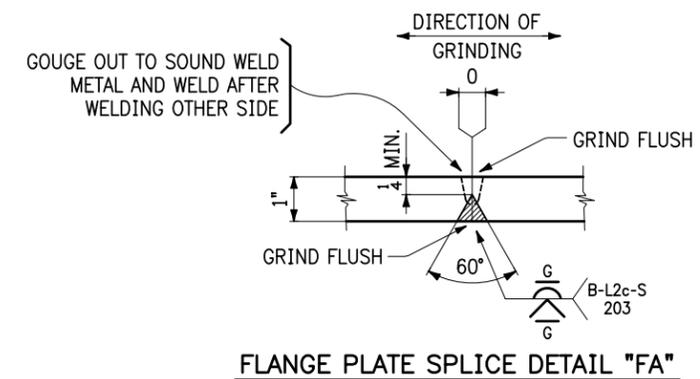
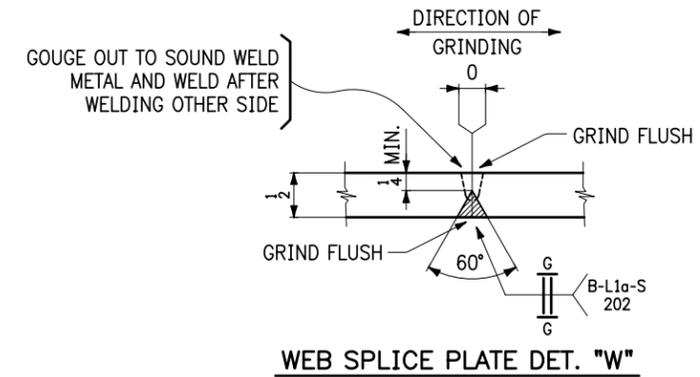
CAMBER DIAGRAM FOR 14G4C & 15G5C

NOTES:

1. MAT'L: M270-50WT2
2. FOR GENERAL NOTES SEE SHT. GN1.
3. "t" INDICATES WELDS SUBJECT TO TENSION.
4. "RT" DENOTES RADIOGRAPHIC INSPECTION. DIMENSION SHOWN IS 1/6 THE WEB DEPTH PLUS 25% OF THE REMAINDER.



FLANGE DIAGRAM FOR 14G4C & 15G5C



NO.	DATE	REMARKS	BY
REVISIONS			
CASCO BAY STEEL STRUCTURES		CASCO BAY STEEL STRUCTURES	
		ONE WALLACE AVENUE SOUTH PORTLAND, ME 04106	
		PHONE: 207-780-6722 FAX: 207-780-6726	
STRUCTURE	BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)		
LOCATION	TOWN OF BENNINGTON, VERMONT		
PROJECT NO.	BRIDGE NO. 57 PROJECT NO. BRF 1000(16)		
ENGINEER	STATE OF VERMONT AGENCY OF TRANSPORTATION		
CUSTOMER	ALPINE CONSTRUCTION		
ITEM	WEB & FLANGE CUTTING DIAGRAMS		
SURFACE PREP.	OPEN HOLES		
PAIN			
APPROVAL	DRAWN DMM 12-5-14	SHEET NO. C5	JOB NO. 605
SHOP	CHECKED FM 1-2-15		

T.Y. LIN INTERNATIONAL

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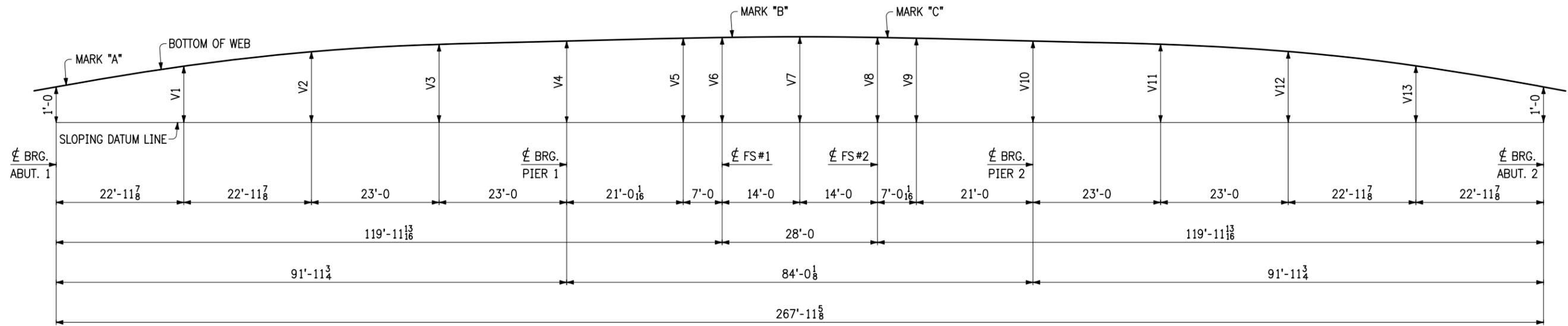
APPROVED
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RICK HEBERT REVIEWER 2/2/2015 DATE

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 BY: **D Bonneau** DATE: **02/05/15**



BLOCKING DIAGRAMS

LINE	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12	V13
1 & 2	1'-9 ⁵ / ₁₆	2'-3 ¹³ / ₁₆	2'-7 ¹ / ₈	2'-8 ⁵ / ₈	2'-9 ¹⁵ / ₁₆	2'-10 ¹ / ₄	2'-10 ⁸ / ₁₆	2'-10 ¹ / ₄	2'-9 ¹⁵ / ₁₆	2'-8 ⁵ / ₈	2'-7 ³ / ₁₆	2'-3 ¹⁵ / ₁₆	1'-9 ¹ / ₂
3	1'-9 ⁵ / ₁₆	2'-3 ¹³ / ₁₆	2'-7 ¹ / ₁₆	2'-8 ⁹ / ₁₆	2'-9 ⁷ / ₈	2'-10 ³ / ₁₆	2'-10 ¹ / ₂	2'-10 ³ / ₁₆	2'-9 ⁷ / ₈	2'-8 ⁹ / ₁₆	2'-7 ³ / ₁₆	2'-3 ¹⁵ / ₁₆	1'-9 ⁷ / ₁₆
4	1'-9 ¹ / ₄	2'-3 ³ / ₄	2'-7	2'-8 ⁷ / ₁₆	2'-9 ³ / ₄	2'-10 ¹ / ₁₆	2'-10 ⁷ / ₁₆	2'-10 ¹ / ₈	2'-9 ¹³ / ₁₆	2'-8 ¹ / ₂	2'-7 ¹ / ₈	2'-3 ⁷ / ₈	1'-9 ⁷ / ₁₆
5	1'-9 ³ / ₁₆	2'-3 ⁵ / ₈	2'-6 ⁷ / ₈	2'-8 ¹ / ₄	2'-9 ⁹ / ₁₆	2'-9 ¹⁵ / ₁₆	2'-10 ¹ / ₄	2'-10	2'-9 ¹¹ / ₁₆	2'-8 ⁷ / ₁₆	2'-7 ¹ / ₁₆	2'-3 ¹³ / ₁₆	1'-9 ⁷ / ₁₆

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NOTES:

- FOR GENERAL NOTES, SEE DWG. GN1.
- ALL DIMENSIONS GIVEN AT BOTTOM OF WEB.

T.Y. LIN INTERNATIONAL

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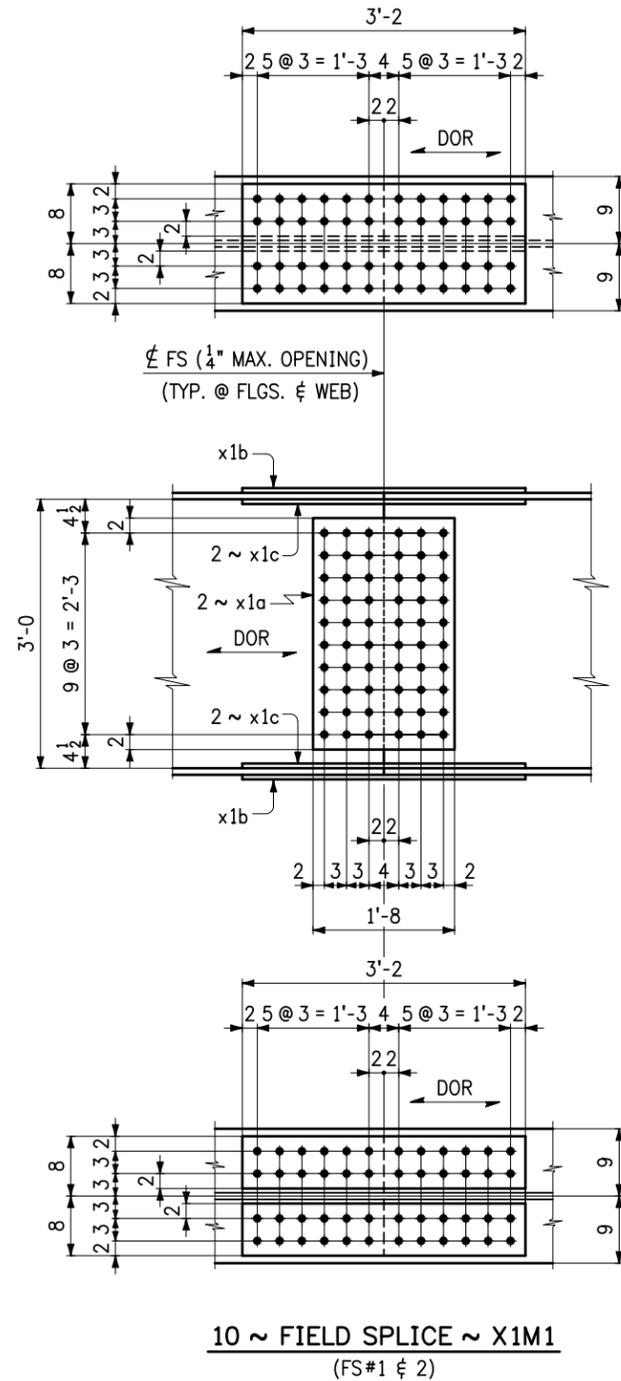
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RICK HEBERT
 REVIEWER

2/2/2015
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REVISIONS			
		CASCO BAY STEEL STRUCTURES <small>ONE WALLACE AVENUE PHONE: 207-780-6722 SOUTH PORTLAND, ME 04106 FAX: 207-780-6726</small>	
STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57 PROJECT NO. BRF 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		SHOP ASSEMBLY DIAGRAMS	
SURFACE PREP.		OPEN HOLES	
PAINT			
APPROVAL	DRAWN	MAY 12-8-14	SHEET NO.
SHOP	CHECKED	GDC 12-11-14	SA1
			JOB NO.
			605



T.Y. LIN INTERNATIONAL

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RICK HEBERT
REVIEWER

2/2/2015
DATE

LINE	NO. OF PCS.	SHIP MARK	ASSY MARK	MATERIAL						REMARKS
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.	ITEM NO.	
1	10	X1M1			FIELD SPLICE					6607 lbs.
2	20		x1a	PL	1/2 x 31	1	8	M270-50WT2	3/2	1758 lbs.
3	20		x1b	PL	3/4 x 16	3	2	M270-50WT2	3/4	2586 lbs.
4	40		x1c	PL	3/4 x 7	3	2	M270-50WT2	3/6	2263 lbs.
5										
6										
7										
8										
9										
10										
11										
12										
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14										
15										
16										
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18										
19										
20										
21										
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23										
24										
25										

Vermont Agency of Transportation
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BY: **D Bonneau** DATE: **02/05/15**

NOTES:

1. FOR GENERAL NOTES, SEE SHT. GN1.
2. HOLES IN SPLICE PLATES ARE PRE-DRILLED. ENDS OF GIRDERS ARE DRILLED FROM SOLID USING SPLICE PLATES AS A TEMPLATE.
3. ← DOR → DENOTES DIRECTION OF MILL ROLLING.

NO.	DATE	REMARKS	BY
REVISIONS			
		CASCO BAY STEEL STRUCTURES <small>ONE WALLACE AVENUE PHONE: 207-780-6722</small> <small>SOUTH PORTLAND, ME 04106 FAX: 207-780-6726</small>	
STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57 PROJECT NO. BRF 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM FIELD SPLICE DETAILS			
SURFACE PREP.		SEE SHT. GN1	OPEN HOLES 15/16"
PAINT NONE			
APPROVAL	DRAWN	GDC 12-5-14	SHEET NO. JOB NO.
SHOP	CHECKED	FM 12-30-14	X1 605

T.Y. LIN INTERNATIONAL

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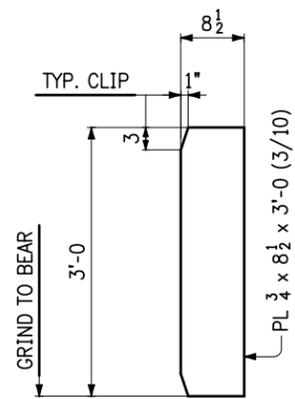
- APPROVED
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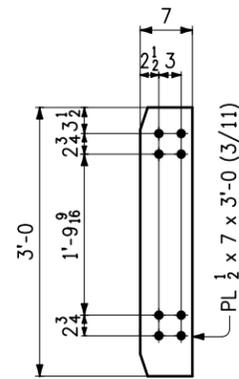
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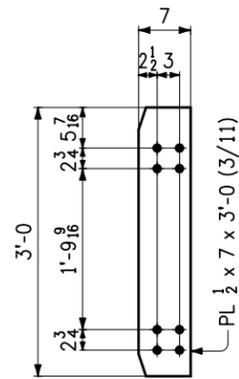
2/2/2015
DATE



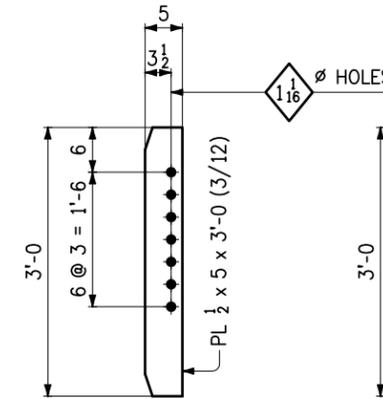
DET. OF PC. ~ x2a
(40 ~ REQ'D)
(@ ABUT. & PIER - BRG. STIFF)



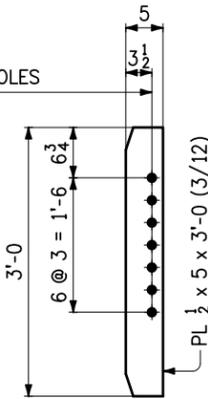
DET. OF PC. ~ x2b
(30 ~ REQ'D)
(CROSSFRAME CONN. PL. LOW)



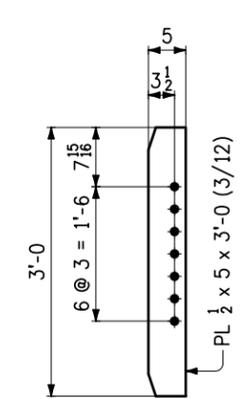
DET. OF PC. ~ x2c
(30 ~ REQ'D)
(CROSSFRAME CONN. PL. HIGH)



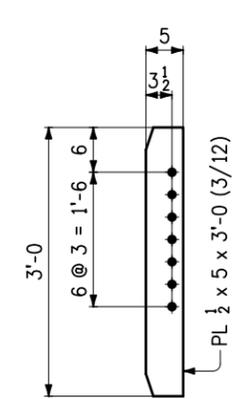
DET. OF PC. ~ x2d
(15 ~ REQ'D)
(DIAPHRAGM CONN. PL. LOW ~ LINE 4)



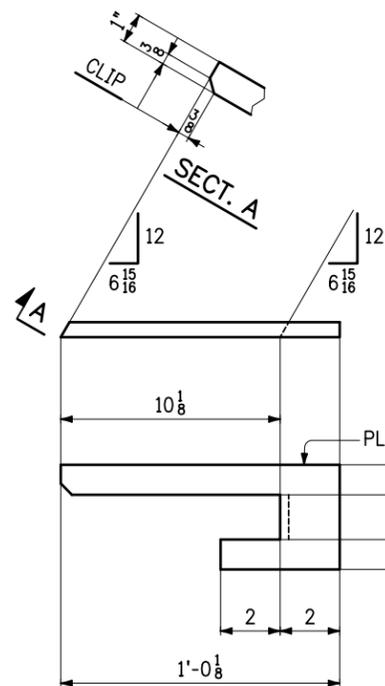
DET. OF PC. ~ x2f
(15 ~ REQ'D)
(DIAPHRAGM CONN. PL. HIGH ~ LINE 3)



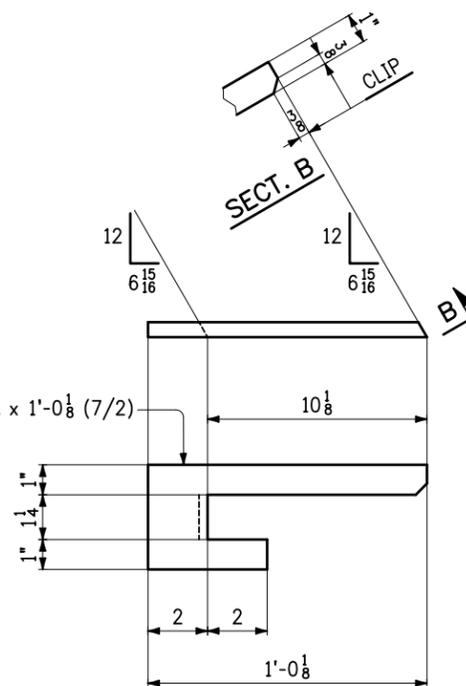
DET. OF PC. ~ x2g
(15 ~ REQ'D)
(DIAPHRAGM CONN. PL. HIGH ~ LINE 4)



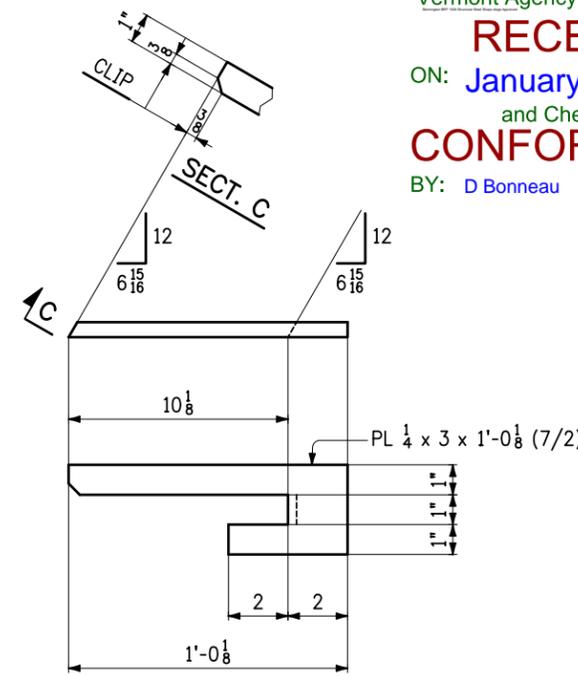
DET. OF PC. ~ x2w
(15 ~ REQ'D)
(DIAPHRAGM CONN. PL. LOW ~ LINE 5)



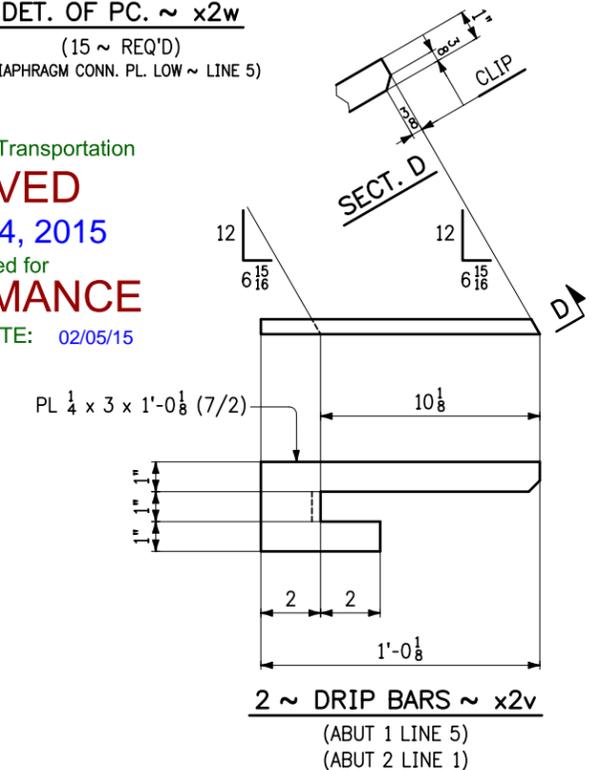
2 ~ DRIP BARS ~ x2n
(PIER 1 LINE 1)
(PIER 2 LINE 5)



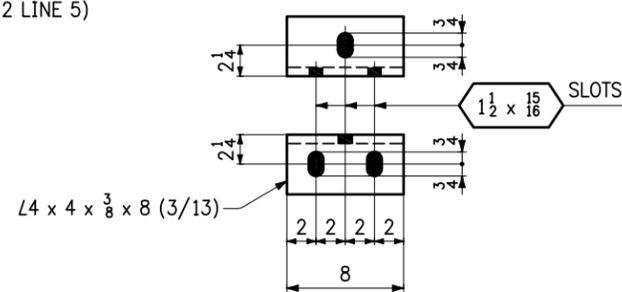
2 ~ DRIP BARS ~ x2p
(PIER 1 LINE 5)
(PIER 2 LINE 1)



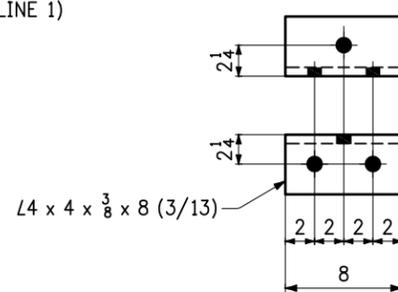
2 ~ DRIP BARS ~ x2t
(ABUT 1 LINE 1)
(ABUT 2 LINE 5)



2 ~ DRIP BARS ~ x2v
(ABUT 1 LINE 5)
(ABUT 2 LINE 1)



13 ~ SUPPORT ANGLES MK. x2k
(UTILITY SUPPORT GDR. LINE 3)



13 ~ SUPPORT ANGLES MK. x2m
(UTILITY SUPPORT GDR. LINE 2)

Vermont Agency of Transportation

RECEIVED

ON: **January 14, 2015**

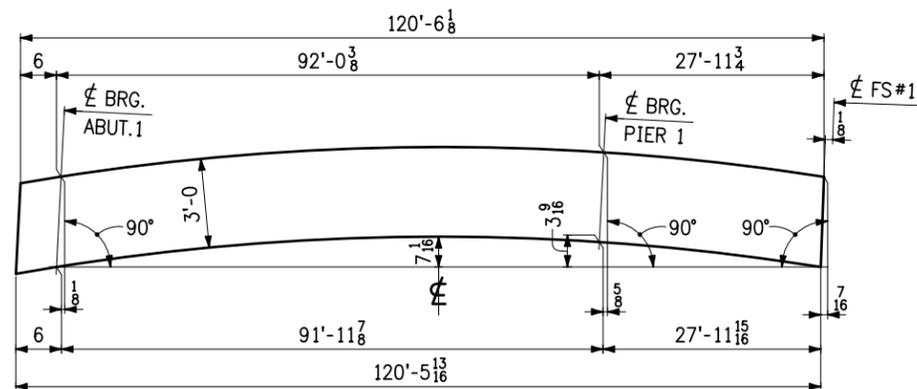
and Checked for
CONFORMANCE

BY: **D Bonneau** DATE: **02/05/15**

NOTES:

- FOR GENERAL NOTES, SEE SHT. GN1.
- MATERIAL TO BE M270-50W.

NO.	DATE	REMARKS	BY
REVISIONS			
		CASCO BAY STEEL STRUCTURES ONE WALLACE AVENUE SOUTH PORTLAND, ME 04106 PHONE: 207-780-6722 FAX: 207-780-6726	
STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57 PROJECT NO. BRF 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		GIRDER STANDARDS	
SURFACE PREP.		OPEN HOLES 15/16 (UN)	
PAINT			
APPROVAL	DRAWN	GDC 12-5-14	SHEET NO. X2
SHOP	CHECKED	FM 12-30-14	JOB NO. 605



CAMBER DIAGRAM

LINE	NO. OF PCS.	SHIP MARK	ASSY MARK	MATERIAL					REMARKS	
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.		ITEM NO.
1	1	1G1A			GIRDER					23,122 lbs.
2	1		wa	PL	1/2 x 36	42	11 5/8	M270-50WT2	1/17	2630 lbs.
3	1		wb	PL	1/2 x 36	77	7 9/8	M270-50WT2	1/12	4755 lbs.
4	1		ta	PL	1 x 18	31	6 3/8	M270-50WT2	2/8	1931 lbs.
5	1		tb	PL	1 x 18	55	0	M270-50WT2	2/6	3369 lbs.
6	1		tc	PL	1 3/8 x 18	12	0	M270-50WT2	2/2	1011 lbs.
7	1		td	PL	1 x 18	21	11 3/4	M270-50WT2	2/9	1346 lbs.
8	1		ba	PL	1 x 18	31	5 5/8	M270-50WT2	2/7	1929 lbs.
9	1		bb	PL	1 x 18	55	0	M270-50WT2	2/6	3369 lbs.
10	1		bc	PL	1 1/4 x 18	12	0	M270-50WT2	2/4	919 lbs.
11	1		bd	PL	1 x 18	21	11 5/8	M270-50WT2	2/9	1347 lbs.
12										
13	4		x2a	PL	3/4 x 8 1/2	3	0	M270-50W	3/10	G1E 260 lbs.
14	7		x2b	PL	1/2 x 7	3	0	M270-50W	3/11	250 lbs.
15	1		x2n	PL	1/4 x 3 1/4	1	0 1/8	M270-50W	7/2	3 lbs.
16	1		x2t	PL	1/4 x 3	1	0 1/8	M270-50W	7/2	3 lbs.
17										
18										
19										
20										
21										
22										
23										
24										
25										

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BY: **D Bonneau** DATE: **02/05/15**

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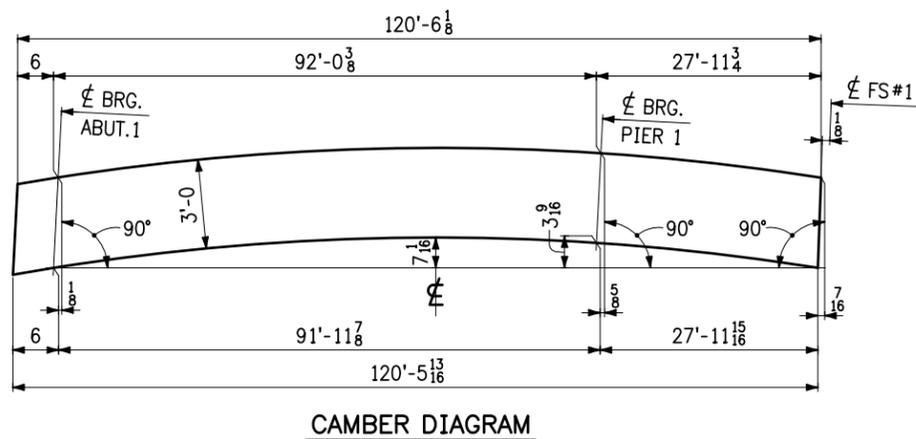
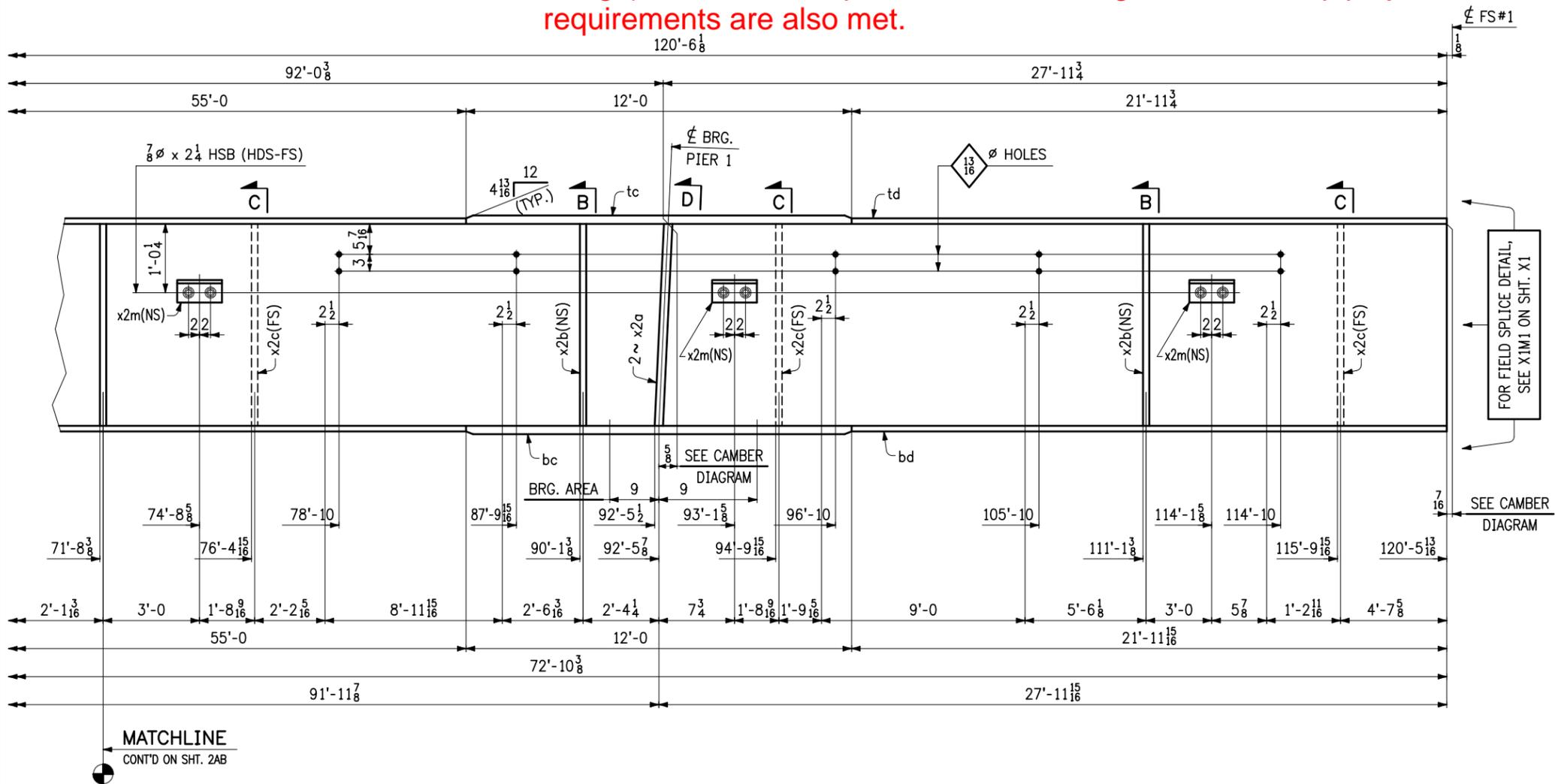
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RICK HEBERT
REVIEWER

2/2/2015
DATE

NO.	DATE	REMARKS	BY
REVISIONS			
		CASCO BAY STEEL STRUCTURES ONE WALLACE AVENUE PHONE: 207-780-6722 SOUTH PORTLAND, ME 04106 FAX: 207-780-6726	
STRUCTURE	BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)		
LOCATION	TOWN OF BENNINGTON, VERMONT		
PROJECT NO.	BRIDGE NO. 57 PROJECT NO. BRF 1000(16)		
ENGINEER	STATE OF VERMONT AGENCY OF TRANSPORTATION		
CUSTOMER	ALPINE CONSTRUCTION		
ITEM	GIRDER ~ 1G1A		
SURFACE PREP.	SSPC-SP10	OPEN HOLES	
PAINT	NONE		
APPROVAL	DRAWN <i>GDC</i> 12-8-14	SHEET NO.	JOB NO.
SHOP	CHECKED <i>FM</i> 1-3-15	1B	605

Spacing of waterline support beams are not all at 9'-0" spaces as shown on Contract Drawing Sheet 39 of 75. Maximum variation appears to be 9". The increase in span is acceptable, however the Contractor should refer to the Special Provision (Water Main on Bridge) to ensure compliance with the hanger distance to pipe joint requirements are also met.



LINE	NO. OF PCS.	SHIP MARK	ASSY MARK	MATERIAL					REMARKS	
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.		ITEM NO.
1	1	2G2A		GIRDER					23,405 lbs.	
2	1		wa	PL	1/2 x 36	47	7 15/16	M270-50WT2	1 16	2919 lbs.
3	1		wb	PL	1/2 x 36	72	10 7/8	M270-50WT2	1 13	4466 lbs.
4	1		ta	PL	1 x 18	31	6 3/8	M270-50WT2	2 8	1931 lbs.
5	1		tb	PL	1 x 18	55	0	M270-50WT2	2 6	3369 lbs.
6	1		tc	PL	1 1/8 x 18	12	0	M270-50WT2	2 2	1011 lbs.
7	1		td	PL	1 x 18	21	11 3/4	M270-50WT2	2 9	1346 lbs.
8	1		ba	PL	1 x 18	31	5 1/8	M270-50WT2	2 7	1929 lbs.
9	1		bb	PL	1 x 18	55	0	M270-50WT2	2 6	3369 lbs.
10	1		bc	PL	1 1/4 x 18	12	0	M270-50WT2	2 4	919 lbs.
11	1		bd	PL	1 x 18	21	11 15/16	M270-50WT2	2 9	1347 lbs.
12										
13	4		x2a	PL	3/4 x 8 1/2	3	0	M270-50W	3 10	G1E 260 lbs.
14	7		x2b	PL	1/2 x 7	3	0	M270-50W	3 11	250 lbs.
15	7		x2c	PL	1/2 x 7	3	0	M270-50W	3 11	250 lbs.
16	6		x2m	L	4 x 4 x 3/8	0	8	M270-50W	3 13	39 lbs.
17										
18	12				7/8" HSB	0	2 1/4	M164 TYPE 3	6 2	
19	12				7/8" WASHER			M293-3	6 6	
20										
21										
22										
23										
24										
25										

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STRUCTURE	BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)		
LOCATION	TOWN OF BENNINGTON, VERMONT		
PROJECT NO.	BRIDGE NO. 57 PROJECT NO. BRF 1000(16)		
ENGINEER	STATE OF VERMONT AGENCY OF TRANSPORTATION		
CUSTOMER	ALPINE CONSTRUCTION		
ITEM	GIRDER ~ 2G2A		
SURFACE PREP.	SSPC-SP10	OPEN HOLES	15/16" (UN)
PAIN	NONE		
APPROVAL	DRAWN GDC 12-8-14	SHEET NO.	JOB NO.
SHOP	CHECKED FM 1-3-15	2B	605

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RICK HEBERT
REVIEWER

2/2/2015
DATE

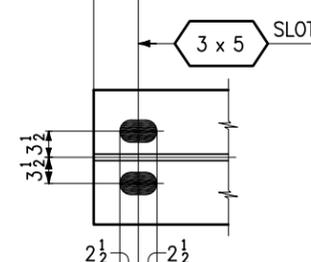
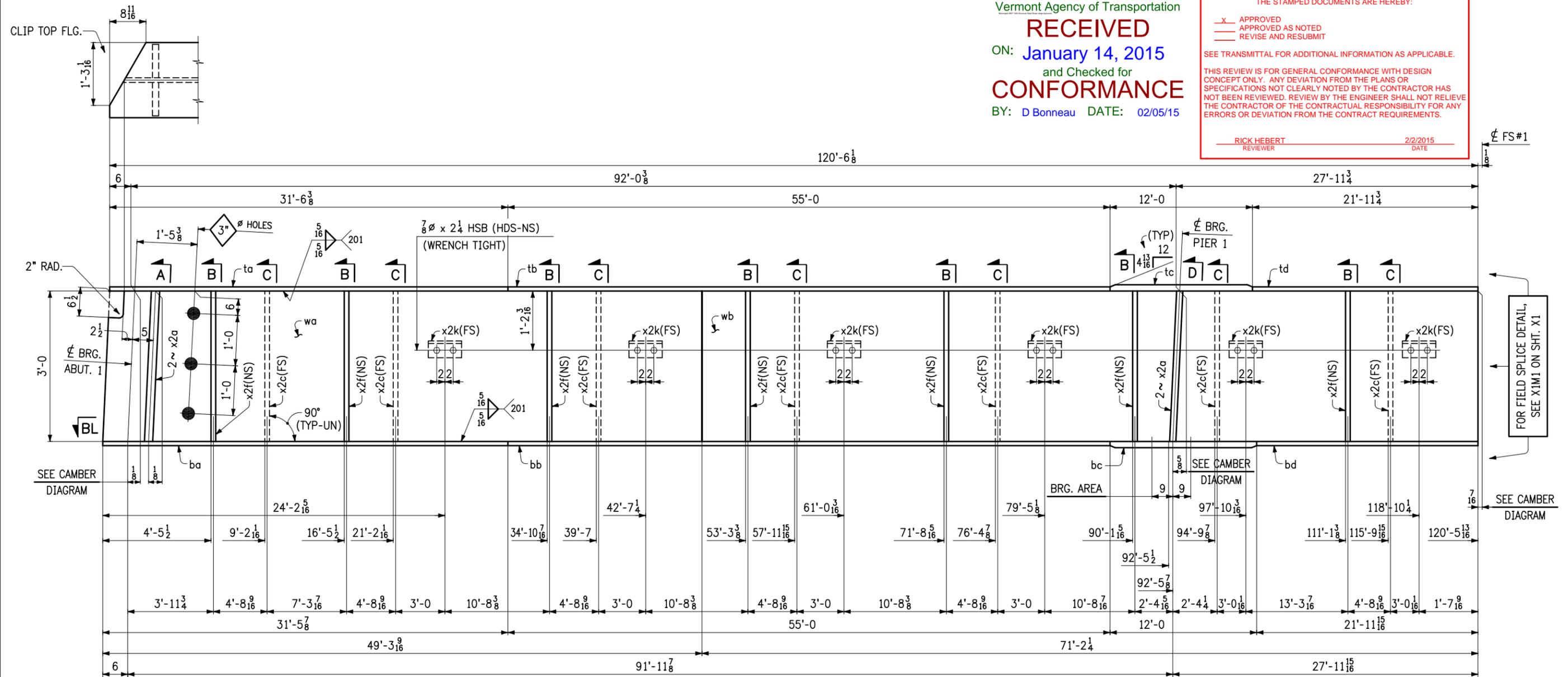
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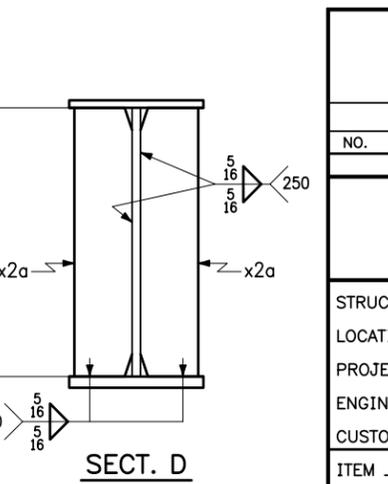
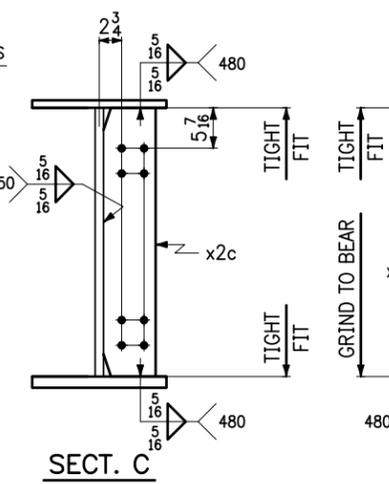
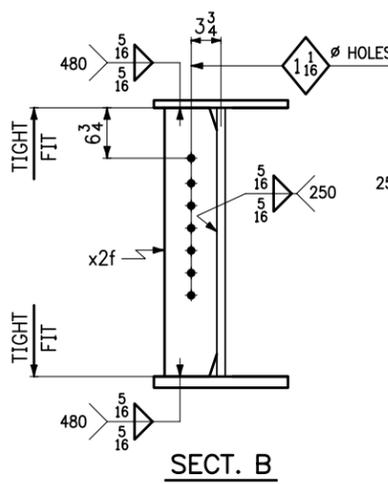
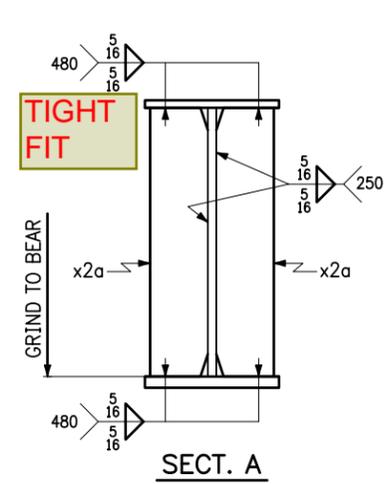
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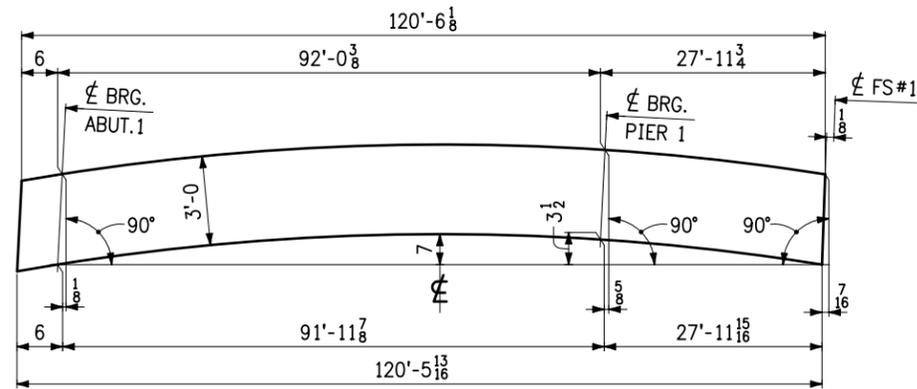
SECT. BL

ONE ~ GIRDER ~ 3G3A

- FOR GIRDER STANDARD DETAILS, SEE SHT. X2.
- FOR WEB CUTTING DIAGRAM, SEE SHT. C2.
- FOR FLANGE CUTTING DIAGRAMS, SEE SHT. C2.
- FOR GENERAL NOTES, SEE SHT. GN1.
- "BRG. AREA" INDICATES AREA THAT MUST BE FLAT TO PROVIDE A UNIFORM EVEN CONTACT WITH SOLE PLATE.



NO.	DATE	REMARKS	BY
REVISIONS			
		CASCO BAY STEEL STRUCTURES ONE WALLACE AVENUE PHONE: 207-780-6722 SOUTH PORTLAND, ME 04106 FAX: 207-780-6726	
STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57 PROJECT NO. BRF 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		GIRDER ~ 3G3A	
SURFACE PREP.		SSPC-SP10 OPEN HOLES 15/16" (UN)	
PAINT		NONE	
APPROVAL	DRAWN	GDC 12-5-14	SHEET NO.
SHOP	CHECKED	FM 1-5-15	JAB
			JOB NO.
			605



CAMBER DIAGRAM

LINE	NO. OF PCS.	SHIP MARK	ASSY MARK	MATERIAL					REMARKS	
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.		ITEM NO.
1	1	3G3A			GIRDER					23,334 lbs.
2	1		wa	PL	1/2 x 36	49	4 1/8	M270-50WT2	1 15	3022 lbs.
3	1		wb	PL	1/2 x 36	71	2 3/4	M270-50WT2	1 14	4363 lbs.
4	1		ta	PL	1 x 18	31	6 3/8	M270-50WT2	2 8	1931 lbs.
5	1		tb	PL	1 x 18	55	0	M270-50WT2	2 6	3369 lbs.
6	1		tc	PL	1 3/8 x 18	12	0	M270-50WT2	2 2	1011 lbs.
7	1		td	PL	1 x 18	21	11 3/4	M270-50WT2	2 9	1346 lbs.
8	1		ba	PL	1 x 18	31	5 3/8	M270-50WT2	2 7	1929 lbs.
9	1		bb	PL	1 x 18	55	0	M270-50WT2	2 6	3369 lbs.
10	1		bc	PL	1 1/4 x 18	12	0	M270-50WT2	2 4	919 lbs.
11	1		bd	PL	1 x 18	21	11 15/16	M270-50WT2	2 9	1347 lbs.
12										
13	4		x2a	PL	3/4 x 8 1/2	3	0	M270-50W	3 10	G1E 260 lbs.
14	7		x2c	PL	1/2 x 7	3	0	M270-50W	3 11	250 lbs.
15	7		x2f	PL	1/2 x 5	3	0	M270-50W	3 12	179 lbs.
16	6		x2k	L	4 x 4 x 3/8	0	8	M270-50W	3 13	39 lbs.
17										
18	12				7/8 HSB	0	2 1/4	M164 TYPE 3	6 2	
19	12				7/8 WASHER			M293-3	6 6	
20										
21										
22										
23										
24										
25										

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RICK HEBERT 2/2/2015
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REVISIONS			
		CASCO BAY STEEL STRUCTURES <small>ONE WALLACE AVENUE SOUTH PORTLAND, ME 04106 PHONE: 207-780-6722 FAX: 207-780-6726</small>	
STRUCTURE <u>BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)</u>			
LOCATION <u>TOWN OF BENNINGTON, VERMONT</u>			
PROJECT NO. <u>BRIDGE NO. 57 PROJECT NO. BRP 1000(16)</u>			
ENGINEER <u>STATE OF VERMONT AGENCY OF TRANSPORTATION</u>			
CUSTOMER <u>ALPINE CONSTRUCTION</u>			
ITEM <u>GIRDER ~ 3G3A</u>			
SURFACE PREP. <u>SSPC-SP10 OPEN HOLES</u>			
PAINT <u>NONE</u>			
APPROVAL	DRAWN <u>GDC</u> 12-9-14	SHEET NO. <u>3B</u>	JOB NO. <u>605</u>
SHOP	CHECKED <u>FM</u> 1-5-15		

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DATE

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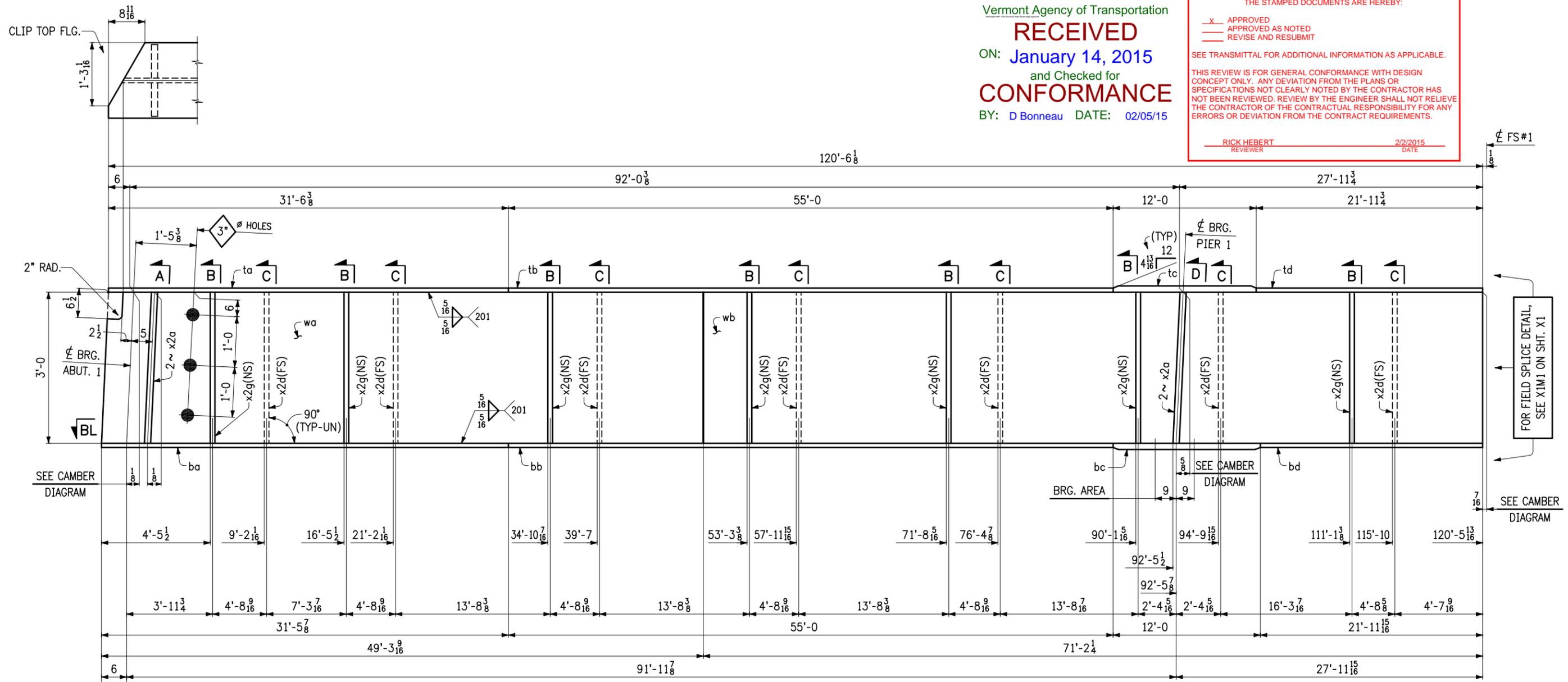
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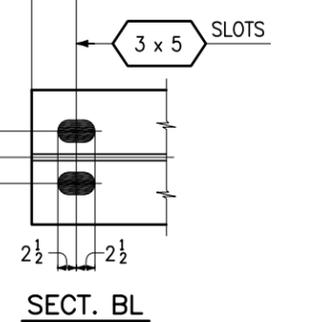
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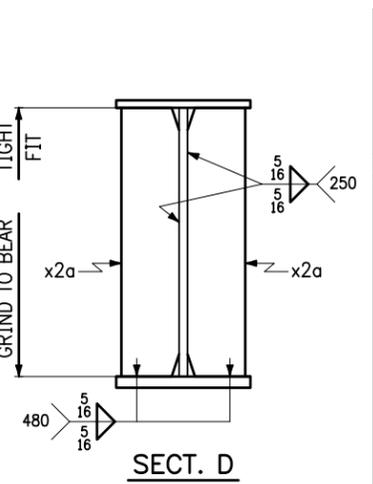
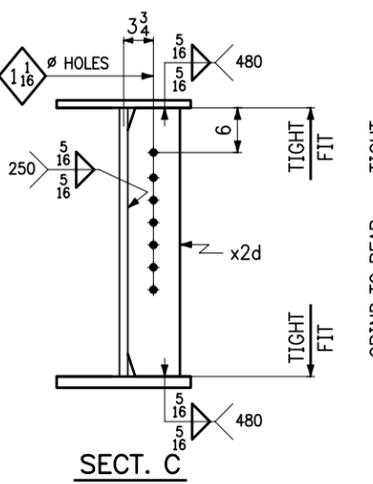
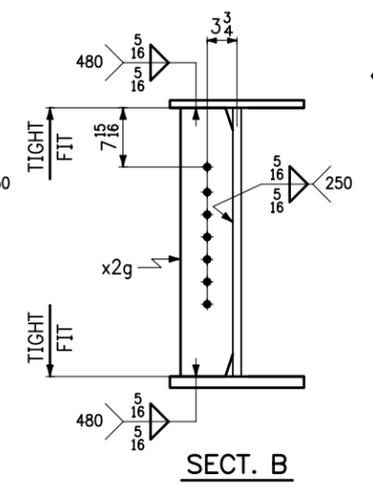
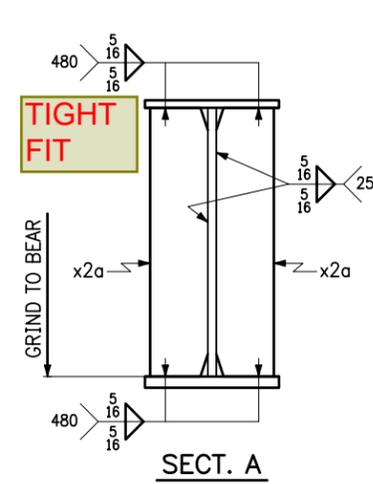
FOR FIELD SPLICE DETAIL,
SEE X1M1 ON SHT. X1

SEE CAMBER
DIAGRAM



ONE ~ GIRDER ~ 4G4A

- FOR GIRDER STANDARD DETAILS, SEE SHT. X2.
- FOR WEB CUTTING DIAGRAM, SEE SHT. C2.
- FOR FLANGE CUTTING DIAGRAMS, SEE SHT. C2.
- FOR GENERAL NOTES, SEE SHT. GN1.
- "BRG. AREA" INDICATES AREA THAT MUST BE FLAT TO PROVIDE A UNIFORM EVEN CONTACT WITH SOLE PLATE.



NO.	DATE	REMARKS	BY
REVISIONS			
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STRUCTURE <u>BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)</u>			
LOCATION <u>TOWN OF BENNINGTON, VERMONT</u>			
PROJECT NO. <u>BRIDGE NO. 57 PROJECT NO. BRP 1000(16)</u>			
ENGINEER <u>STATE OF VERMONT AGENCY OF TRANSPORTATION</u>			
CUSTOMER <u>ALPINE CONSTRUCTION</u>			
ITEM <u>GIRDER ~ 4G4A</u>			
SURFACE PREP. <u>SSPC-SP10</u> OPEN HOLES <u>1 5/16" (UN)</u>			
PAINT <u>NONE</u>			
APPROVAL	DRAWN <u>GDC</u> 12-9-14	SHEET NO. <u>4AB</u>	JOB NO. <u>605</u>
SHOP	CHECKED <u>FM</u> 1-5-14		

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Vermont Agency of Transportation

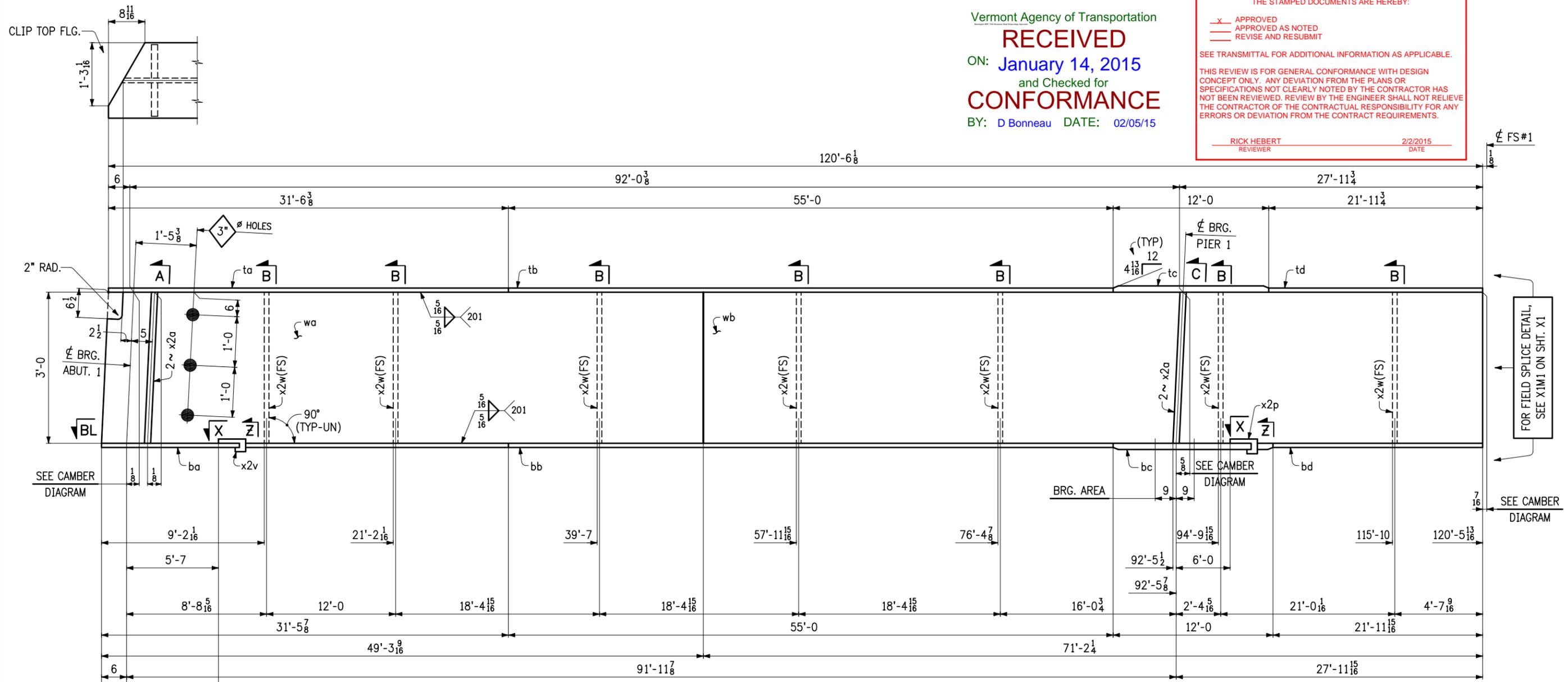
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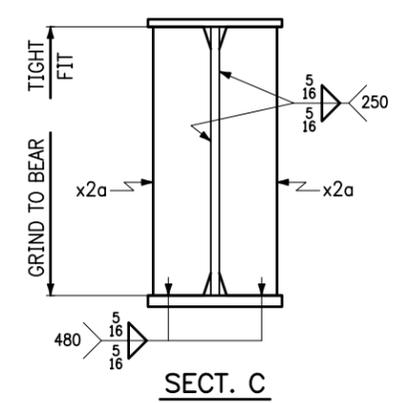
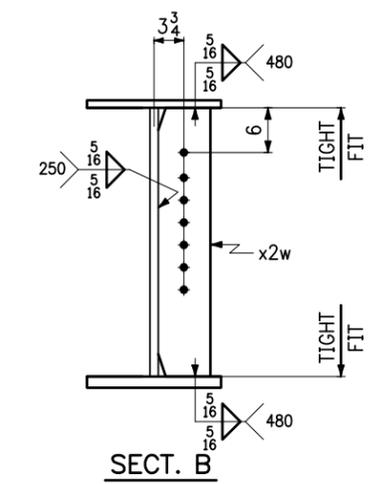
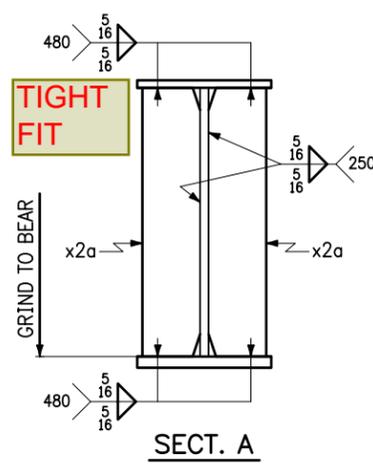
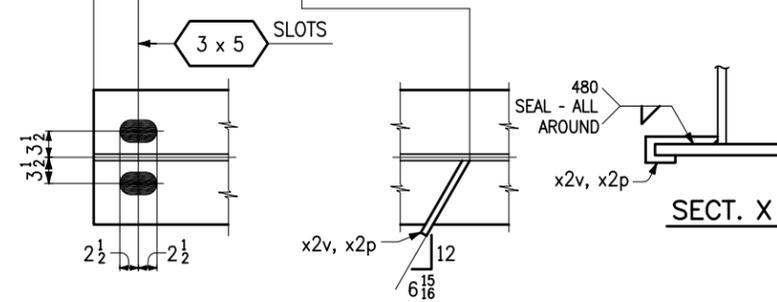
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FOR FIELD SPLICE DETAIL, SEE X1M1 ON SHT. X1

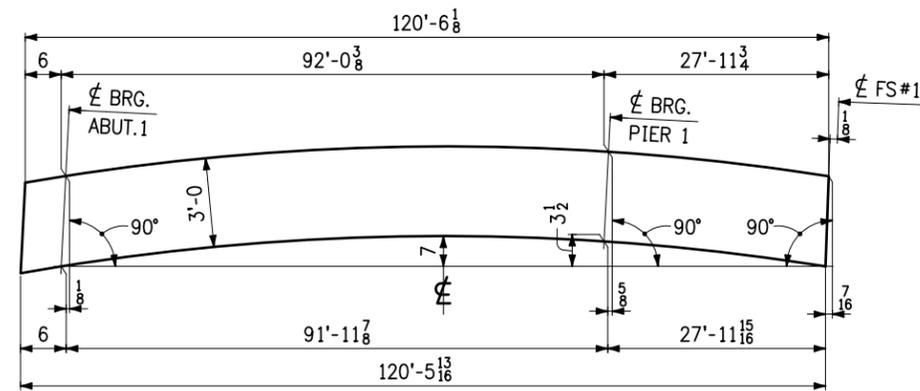
SEE CAMBER DIAGRAM



ONE ~ GIRDER ~ 5G5A

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STRUCTURE <u>BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)</u>			
LOCATION <u>TOWN OF BENNINGTON, VERMONT</u>			
PROJECT NO. <u>BRIDGE NO. 57 PROJECT NO. BRF 1000(16)</u>			
ENGINEER <u>STATE OF VERMONT AGENCY OF TRANSPORTATION</u>			
CUSTOMER <u>ALPINE CONSTRUCTION</u>			
ITEM <u>GIRDER ~ 5G5A</u>			
SURFACE PREP. <u>SSPC-SP10</u> OPEN HOLES <u>15/16\"/> </u>			
PAINT <u>NONE</u>			
APPROVAL	DRAWN <u>GDC</u> 12-9-14	SHEET NO. <u>5AB</u>	JOB NO. <u>605</u>
SHOP	CHECKED <u>FM</u> 1-5-15		



CAMBER DIAGRAM

LINE	NO. OF PCS.	SHIP MARK	ASSY MARK	MATERIAL					REMARKS	
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.		ITEM NO.
1	1	5G5A			GIRDER					23,051 lbs.
2	1		wa	PL	1/2 x 36	49	4 1/8	M270-50WT2	1/15	3022 lbs.
3	1		wb	PL	1/2 x 36	71	2 3/4	M270-50WT2	1/14	4363 lbs.
4	1		ta	PL	1 x 18	31	6 3/8	M270-50WT2	2/8	1931 lbs.
5	1		tb	PL	1 x 18	55	0	M270-50WT2	2/6	3369 lbs.
6	1		tc	PL	1 3/8 x 18	12	0	M270-50WT2	2/2	1011 lbs.
7	1		td	PL	1 x 18	21	11 3/4	M270-50WT2	2/9	1346 lbs.
8	1		ba	PL	1 x 18	31	5 3/8	M270-50WT2	2/7	1929 lbs.
9	1		bb	PL	1 x 18	55	0	M270-50WT2	2/6	3369 lbs.
10	1		bc	PL	1 1/4 x 18	12	0	M270-50WT2	2/4	919 lbs.
11	1		bd	PL	1 x 18	21	11 15/16	M270-50WT2	2/9	1347 lbs.
12										
13	4		x2a	PL	3/4 x 8 1/2	3	0	M270-50W	3/10	G1E 260 lbs.
14	7		x2w	PL	1/2 x 5	3	0	M270-50W	3/12	179 lbs.
15	1		x2p	PL	1/4 x 3 1/4	1	0 1/8	M270-50W	7/2	3 lbs.
16	1		x2v	PL	1/4 x 3	1	0 1/8	M270-50W	7/2	3 lbs.
17										
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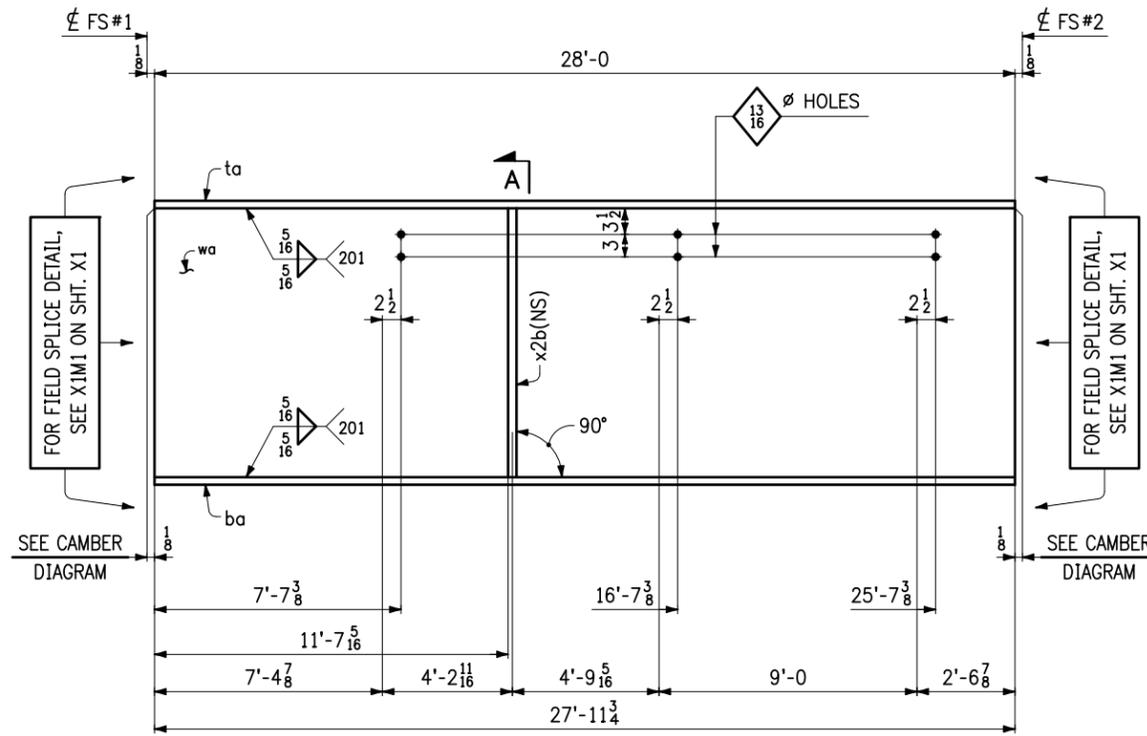
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RICK HEBERT
REVIEWER

2/2/2015
DATE

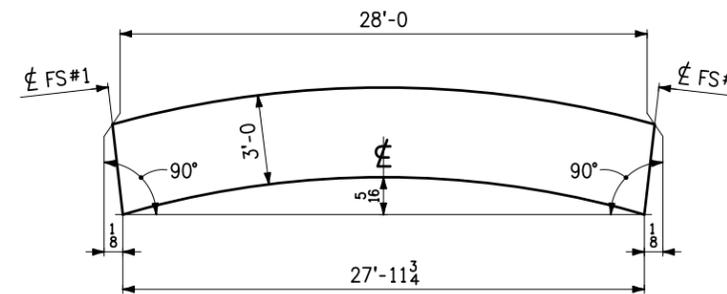
NO.	DATE	REMARKS	BY
REVISIONS			
		CASCO BAY STEEL STRUCTURES <small>ONE WALLACE AVENUE SOUTH PORTLAND, ME 04106</small> <small>PHONE: 207-780-6722 FAX: 207-780-6726</small>	
STRUCTURE <u>BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)</u>			
LOCATION <u>TOWN OF BENNINGTON, VERMONT</u>			
PROJECT NO. <u>BRIDGE NO. 57 PROJECT NO. BRF 1000(16)</u>			
ENGINEER <u>STATE OF VERMONT AGENCY OF TRANSPORTATION</u>			
CUSTOMER <u>ALPINE CONSTRUCTION</u>			
ITEM <u>GIRDER ~ 5G5A</u>			
SURFACE PREP. <u>SSPC-SP10</u> OPEN HOLES _____			
PAINT <u>NONE</u>			
APPROVAL	DRAWN <u>GDC</u> 12-9-14	SHEET NO. <u>5B</u>	JOB NO. <u>605</u>
SHOP	CHECKED <u>FM</u> 1-5-15		

Spacing of waterline support beams are not all at 9'-0" spaces as shown on Contract Drawing Sheet 39 of 75. Maximum variation appears to be 9". The increase in span is acceptable, however the Contractor should refer to the Special Provision (Water Main on Bridge) to ensure compliance with the hanger distance to pipe joint requirements are also met.

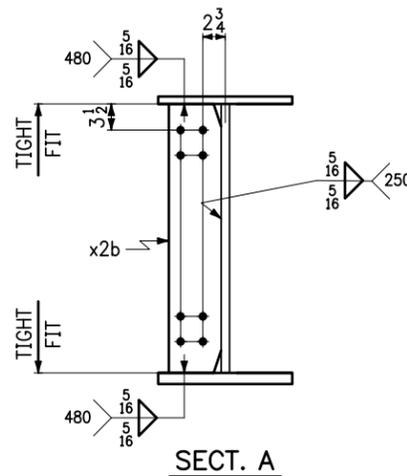


ONE ~ GIRDER ~ 6G1B

- FOR GIRDER STANDARD DETAILS, SEE SHT. X2.
- FOR WEB CUTTING DIAGRAM, SEE SHT. C3.
- FOR FLANGE CUTTING DIAGRAMS, SEE SHT. C3.
- FOR GENERAL NOTES, SEE SHT. GN1.



CAMBER DIAGRAM



SECT. A

LINE	NO. OF PCS.	SHIP MARK	ASSY MARK	MATERIAL					REMARKS	
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.		ITEM NO.
1	1	6G1B			GIRDER					5180 lbs.
2	1		wa	PL	1/2 x 36	28	0	M270-50WT2	1/19	1715 lbs.
3	1		ta	PL	1 x 18	28	0	M270-50WT2	2/11	1715 lbs.
4	1		ba	PL	1 x 18	27	11 3/4	M270-50WT2	2/11	1714 lbs.
5										
6	1		x2b	PL	1/2 x 7	3	0	M270-50W	3/11	36 lbs.
7										
8										
9										
10										
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T.Y. LIN INTERNATIONAL

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- ____ REVISE AND RESUBMIT

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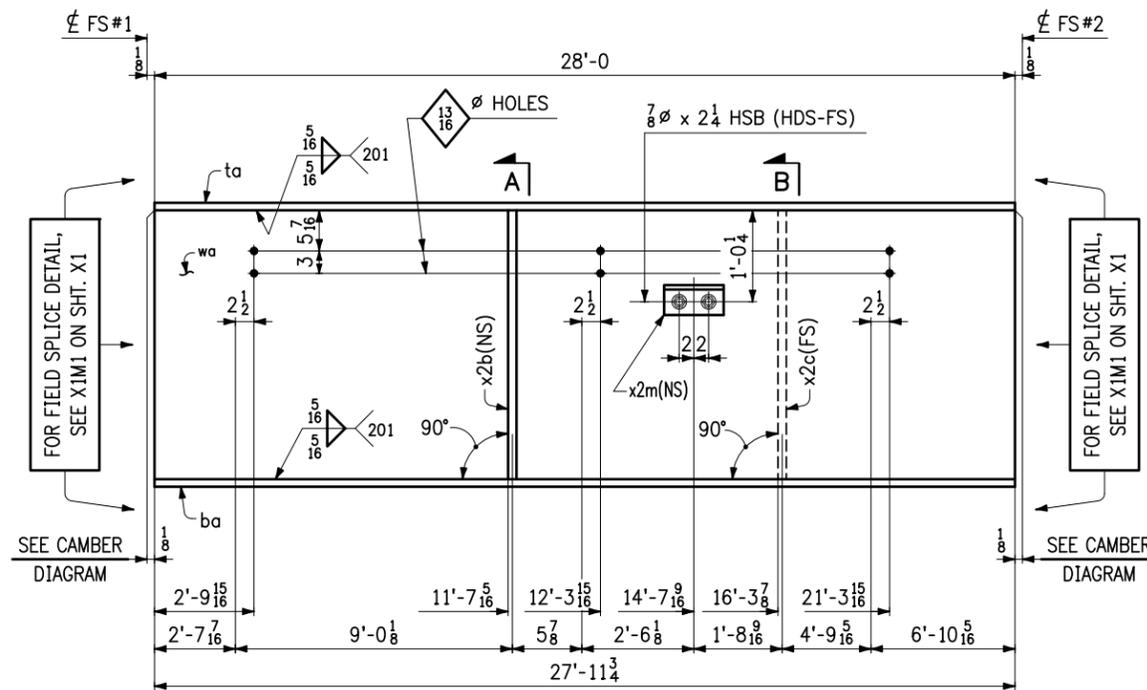
RICK HEBERT
REVIEWER

2/2/2015
DATE

NO.	DATE	REMARKS	BY
REVISIONS			
		CASCO BAY STEEL STRUCTURES <small>ONE WALLACE AVENUE SOUTH PORTLAND, ME 04106 PHONE: 207-780-6722 FAX: 207-780-6726</small>	
STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57 PROJECT NO. BRF 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		GIRDER ~ 6G1B	
SURFACE PREP.		SSPC-SP10 OPEN HOLES 15/16" (UN)	
PAINT		NONE	
APPROVAL	DRAWN	GDC 12-10-14	SHEET NO. 6
SHOP	CHECKED	FM 1-5-15	JOB NO. 605

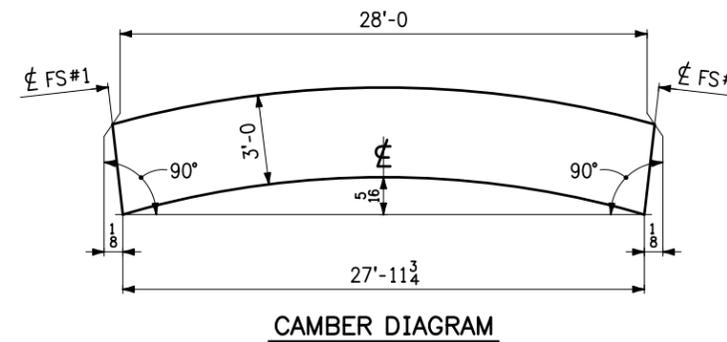
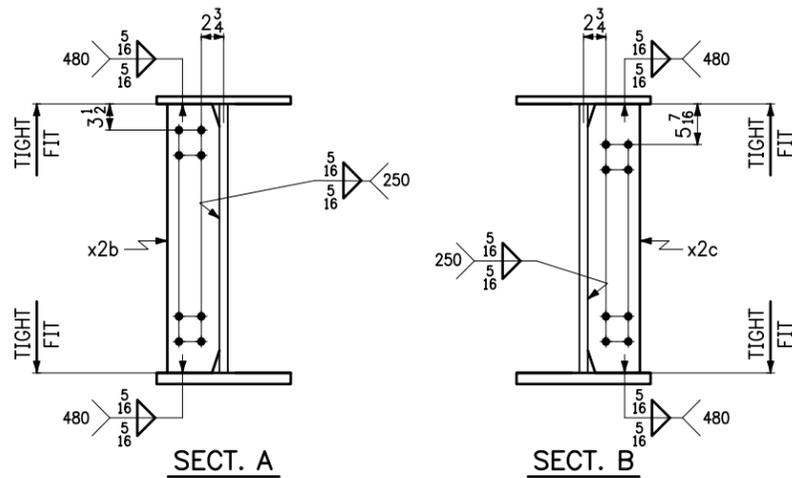
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 BY: **D Bonnaeu** DATE: **02/05/15**

Spacing of waterline support beams are not all at 9'-0" spaces as shown on Contract Drawing Sheet 39 of 75. Maximum variation appears to be 9". The increase in span is acceptable, however the Contractor should refer to the Special Provision (Water Main on Bridge) to ensure compliance with the hanger distance to pipe joint requirements are also met.



ONE ~ GIRDER ~ 7G2B

- FOR GIRDER STANDARD DETAILS, SEE SHT. X2.
- FOR WEB CUTTING DIAGRAM, SEE SHT. C3.
- FOR FLANGE CUTTING DIAGRAMS, SEE SHT. C3.
- FOR GENERAL NOTES, SEE SHT. GN1.



LINE	NO. OF PCS.	SHIP MARK	ASSY MARK	MATERIAL					REMARKS	
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.		ITEM NO.
1	1	7G2B			GIRDER					5223 lbs.
2	1		wa	PL	1/2 x 36	28	0	M270-50WT2	1/19	1715 lbs.
3	1		ta	PL	1 x 18	28	0	M270-50WT2	2/11	1715 lbs.
4	1		ba	PL	1 x 18	27	11 3/4	M270-50WT2	2/11	1714 lbs.
5										
6	1		x2b	PL	1/2 x 7	3	0	M270-50W	3/11	36 lbs.
7	1		x2c	PL	1/2 x 7	3	0	M270-50W	3/11	36 lbs.
8	1		x2m	L	4 x 4 x 3/8	0	8	M270-50W	3/13	7 lbs.
9										
10	2				7/8 HSB	0	2 1/4	M164 TYPE 3	6/2	
11	2				7/8 WASHER			M293-3	6/6	
12										
13										
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T.Y. LIN INTERNATIONAL

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RICK HEBERT
REVIEWER

2/2/2015
DATE

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REVISIONS			
		CASCO BAY STEEL STRUCTURES ONE WALLACE AVENUE SOUTH PORTLAND, ME 04106 PHONE: 207-780-6722 FAX: 207-780-6726	
STRUCTURE <u>BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)</u>			
LOCATION <u>TOWN OF BENNINGTON, VERMONT</u>			
PROJECT NO. <u>BRIDGE NO. 57 PROJECT NO. BRP 1000(16)</u>			
ENGINEER <u>STATE OF VERMONT AGENCY OF TRANSPORTATION</u>			
CUSTOMER <u>ALPINE CONSTRUCTION</u>			
ITEM <u>GIRDER ~ 7G2B</u>			
SURFACE PREP. <u>SSPC-SP10</u> OPEN HOLES <u>1 5/16 (UN)</u>			
PAINT <u>NONE</u>			
APPROVAL	DRAWN <u>GDC</u> 12-10-14	SHEET NO. <u>7</u>	JOB NO. <u>605</u>
SHOP	CHECKED <u>FM</u> 1-5-15		

Vermont Agency of Transportation
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and Checked for
CONFORMANCE
BY: **D Bonneau** DATE: **02/05/15**

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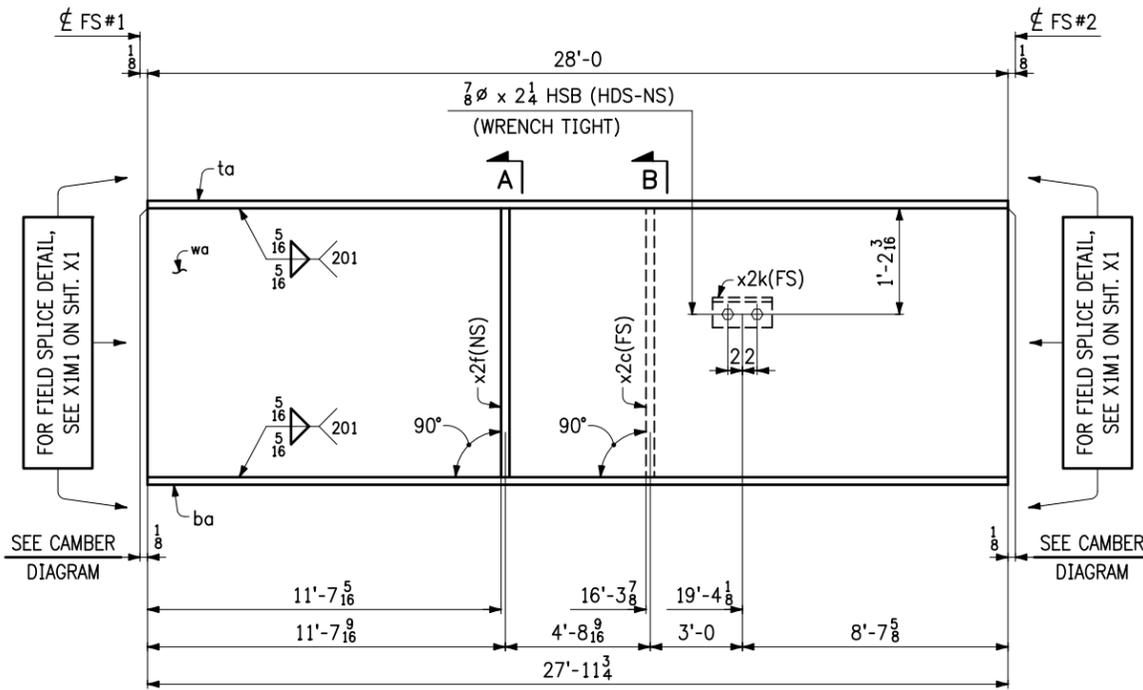
- X — APPROVED
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- — — REVISE AND RESUBMIT

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RICK HEBERT
REVIEWER

2/2/2015
DATE



FOR FIELD SPLICE DETAIL,
SEE X1M1 ON SHT. X1

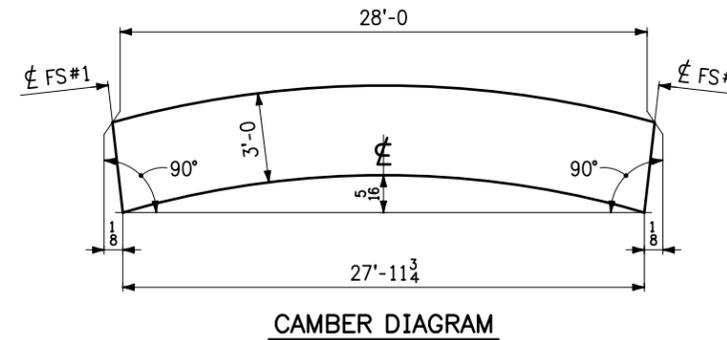
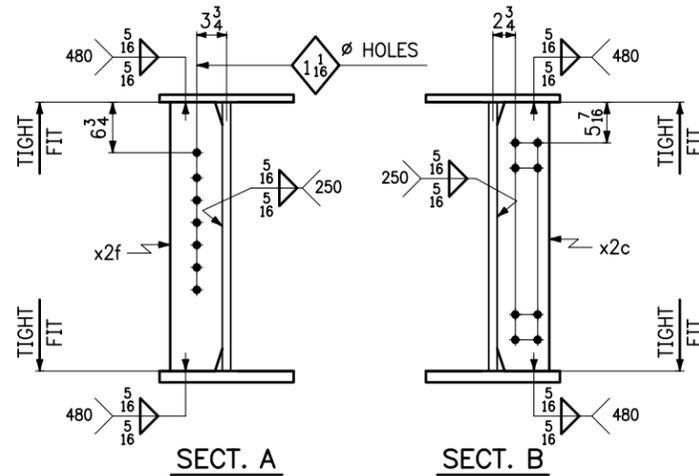
FOR FIELD SPLICE DETAIL,
SEE X1M1 ON SHT. X1

SEE CAMBER
DIAGRAM

SEE CAMBER
DIAGRAM

ONE ~ GIRDER ~ 8G3B

- FOR GIRDER STANDARD DETAILS, SEE SHT. X2.
- FOR WEB CUTTING DIAGRAM, SEE SHT. C3.
- FOR FLANGE CUTTING DIAGRAMS, SEE SHT. C3.
- FOR GENERAL NOTES, SEE SHT. GN1.



LINE	NO. OF PCS.	SHIP MARK	ASS'Y MARK	MATERIAL						
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.	ITEM NO.	REMARKS
1	1	8G3B			GIRDER					5213 lbs.
2	1		wa	PL	1/2 x 36	28	0	M270-50WT2	1/19	1715 lbs.
3	1		ta	PL	1 x 18	28	0	M270-50WT2	2/11	1715 lbs.
4	1		ba	PL	1 x 18	27	11 3/4	M270-50WT2	2/11	1714 lbs.
5										
6	1		x2c	PL	1/2 x 7	3	0	M270-50W	3/11	36 lbs.
7	1		x2f	PL	1/2 x 5	3	0	M270-50W	3/12	26 lbs.
8	1		x2k	L	4 x 4 x 3/8	0	8	M270-50W	3/13	7 lbs.
9										
10	2				7/8 HSB	0	2 1/4	M164 TYPE 3	6/2	
11	2				7/8 WASHER			M293-3	6/6	
12										
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BY: D Bonneau DATE: 02/05/15

NO.	DATE	REMARKS	BY
REVISIONS			
		CASCO BAY STEEL STRUCTURES <small>ONE WALLACE AVENUE PHONE: 207-780-6722</small> <small>SOUTH PORTLAND, ME 04106 FAX: 207-780-6726</small>	
STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57 PROJECT NO. BRF 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		GIRDER ~ 8G3B	
SURFACE PREP.		SSPC-SP10 OPEN HOLES 15/16 (UN)	
PAINT		NONE	
APPROVAL	DRAWN	GDC 12-10-14	SHEET NO. 8
SHOP	CHECKED	FM 1-5-15	JOB NO. 605

T.Y. LIN INTERNATIONAL

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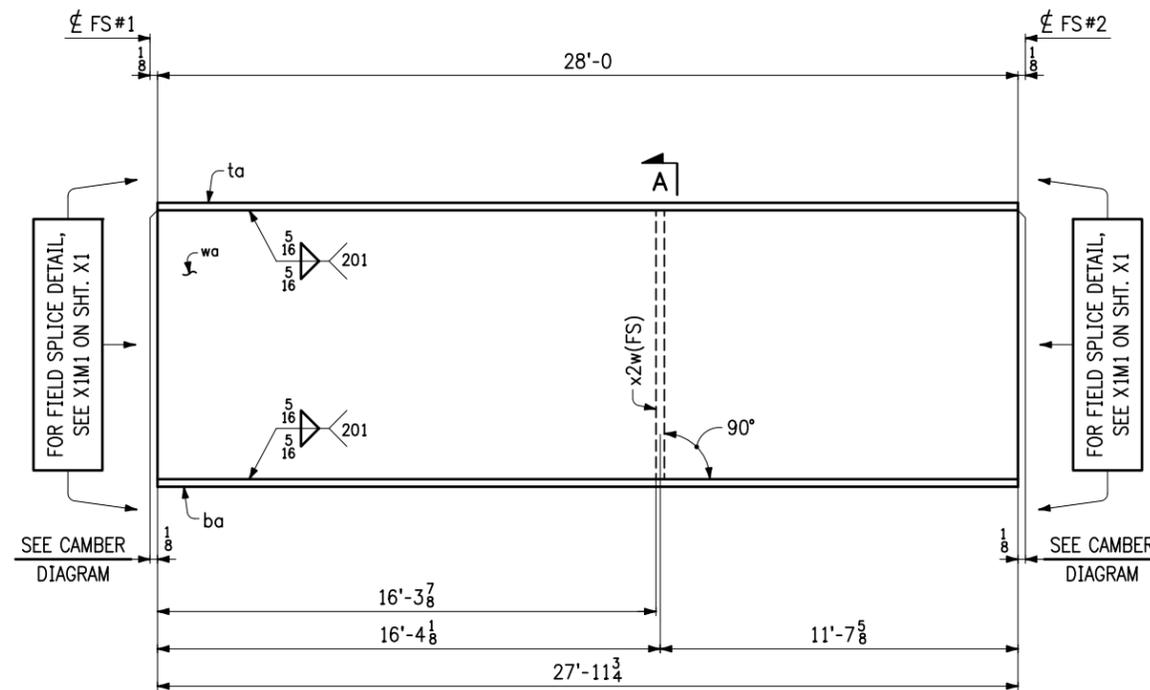
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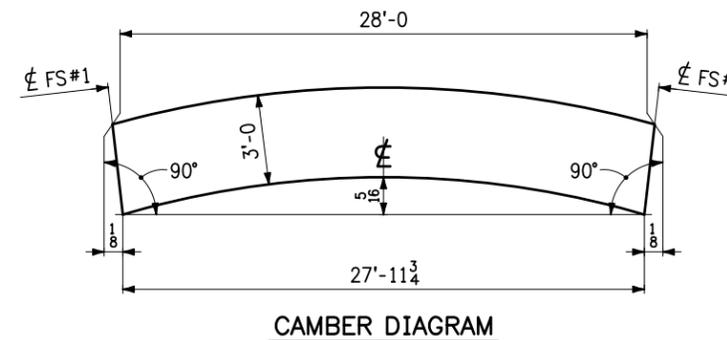
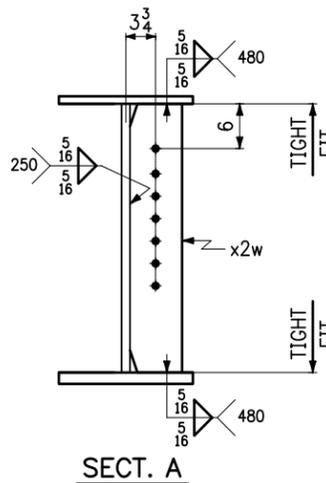
RICK HEBERT
REVIEWER

2/2/2015
DATE



ONE ~ GIRDER ~ 10G5B

- FOR GIRDER STANDARD DETAILS, SEE SHT. X2.
- FOR WEB CUTTING DIAGRAM, SEE SHT. C3.
- FOR FLANGE CUTTING DIAGRAMS, SEE SHT. C3.
- FOR GENERAL NOTES, SEE SHT. GN1.



LINE	NO. OF PCS.	SHIP MARK	ASSY MARK	MATERIAL					REMARKS	
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.		ITEM NO.
1	1	10G5B			GIRDER					5170 lbs.
2	1		wa	PL	1/2 x 36	28	0	M270-50WT2	19	1715 lbs.
3	1		ta	PL	1 x 18	28	0	M270-50WT2	11	1715 lbs.
4	1		ba	PL	1 x 18	27	11 3/4	M270-50WT2	11	1714 lbs.
5										
6	1		x2w	PL	1/2 x 5	3	0	M270-50W	12	26 lbs.
7										
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					CASCO BAY STEEL STRUCTURES ONE WALLACE AVENUE PHONE: 207-780-6722 SOUTH PORTLAND, ME 04106 FAX: 207-780-6726				
STRUCTURE					BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)				
LOCATION					TOWN OF BENNINGTON, VERMONT				
PROJECT NO.					BRIDGE NO. 57 PROJECT NO. BRF 1000(16)				
ENGINEER					STATE OF VERMONT AGENCY OF TRANSPORTATION				
CUSTOMER					ALPINE CONSTRUCTION				
ITEM					GIRDER ~ 10G5B				
SURFACE PREP.					SSPC-SP10 OPEN HOLES 15/16"				
PAINT					NONE				
APPROVAL	DRAWN	GDC	12-10-14	SHEET NO.	JOB NO.				
SHOP	CHECKED	FM	1-5-15	10	605				

Spacing of waterline support beams are not all at 9'-0" spaces as shown on Contract Drawing Sheet 39 of 75. Maximum variation appears to be 9". The increase in span is acceptable, however the Contractor should refer to the Special Provision (Water Main on Bridge) to ensure compliance with the hanger distance to pipe joint requirements are also met.

T.Y. LIN INTERNATIONAL

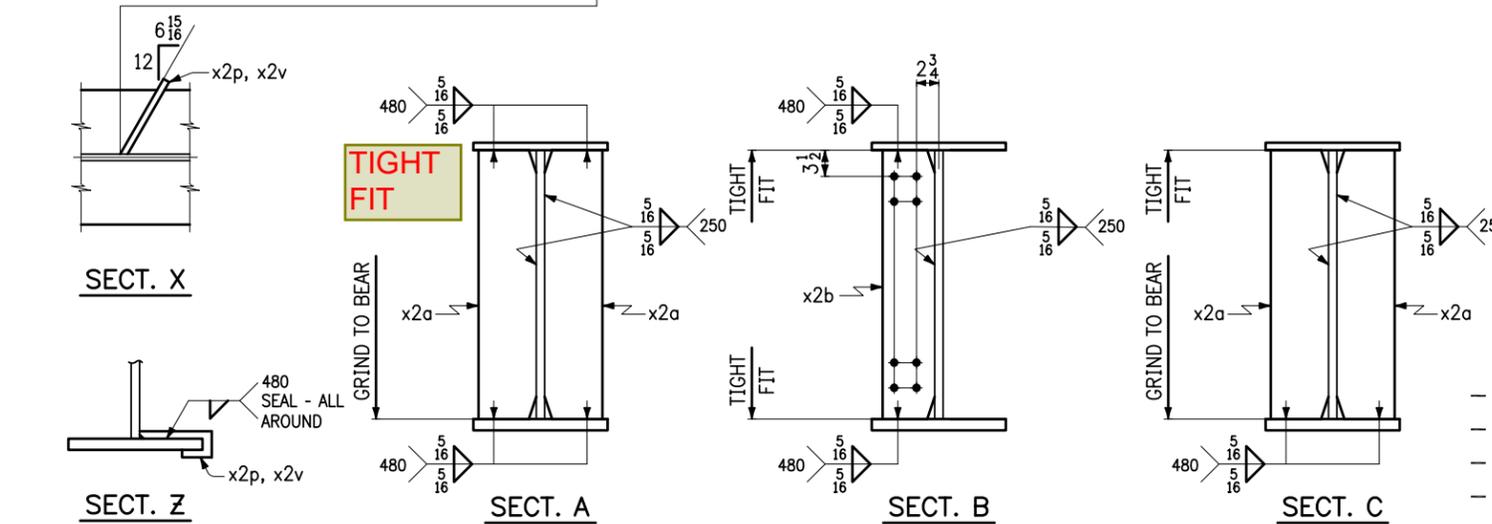
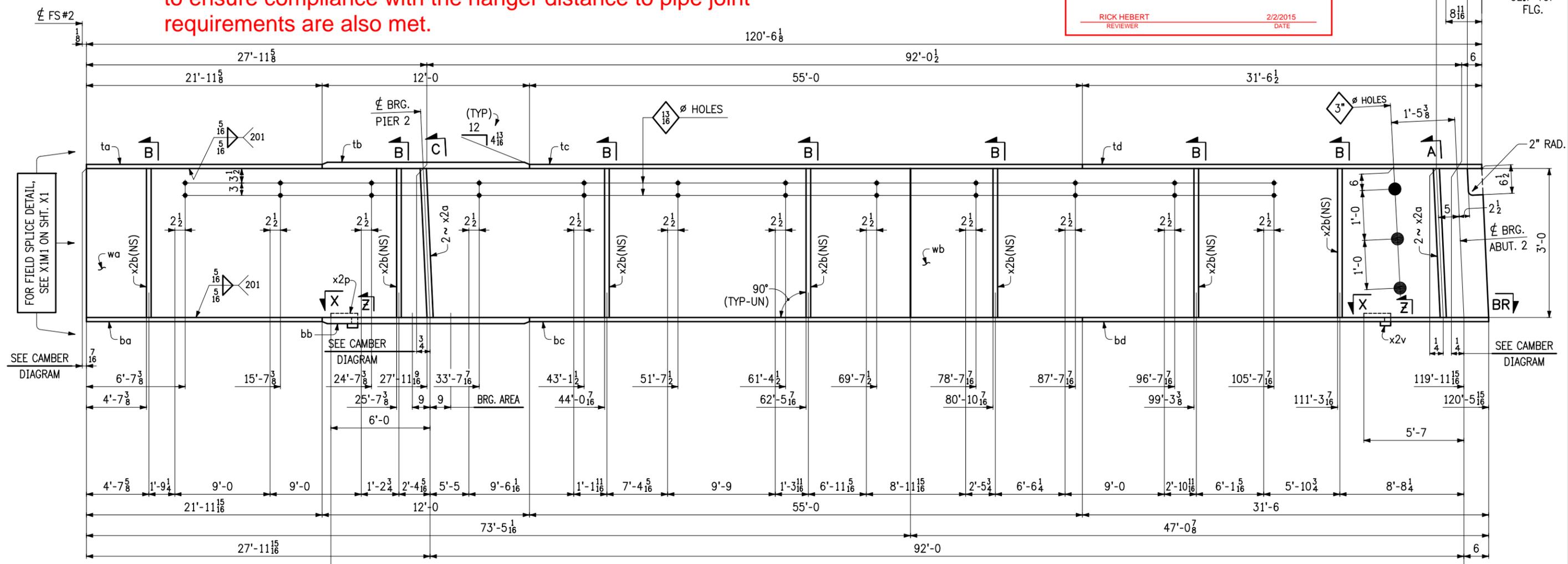
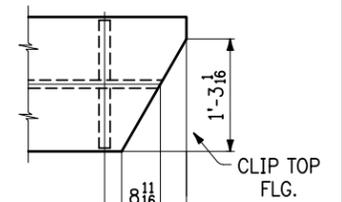
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- ____ REVISE AND RESUBMIT

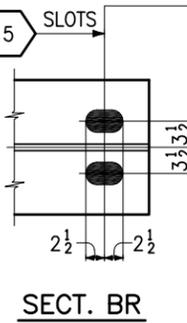
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RICK HEBERT REVIEWER 2/2/2015 DATE

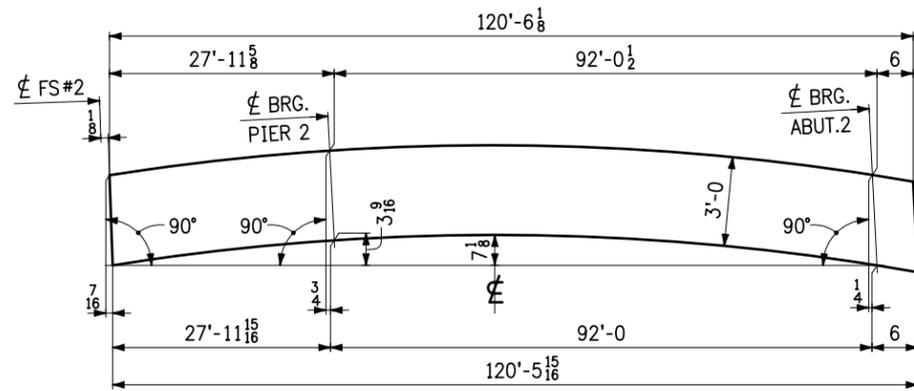


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 BY: **D Bonneau** DATE: **02/05/15**



- ONE ~ GIRDER ~ 11G1C**
- FOR GIRDER STANDARD DETAILS, SEE SHT. X2.
 - FOR WEB CUTTING DIAGRAM, SEE SHT. C4.
 - FOR FLANGE CUTTING DIAGRAMS, SEE SHT. C4.
 - FOR GENERAL NOTES, SEE SHT. GN1.
 - "BRG. AREA" INDICATES AREA THAT MUST BE FLAT TO PROVIDE A UNIFORM EVEN CONTACT WITH SOLE PLATE.

NO.	DATE	REMARKS	BY
REVISIONS			
CASCO BAY STEEL STRUCTURES		CASCO BAY STEEL STRUCTURES	
ONE WALLACE AVENUE SOUTH PORTLAND, ME 04106		PHONE: 207-780-6722 FAX: 207-780-6726	
STRUCTURE <u>BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)</u>			
LOCATION <u>TOWN OF BENNINGTON, VERMONT</u>			
PROJECT NO. <u>BRIDGE NO. 57 PROJECT NO. BRF 1000(16)</u>			
ENGINEER <u>STATE OF VERMONT AGENCY OF TRANSPORTATION</u>			
CUSTOMER <u>ALPINE CONSTRUCTION</u>			
ITEM <u>GIRDER ~ 11G1C</u>			
SURFACE PREP. <u>SSPC-SP10</u> OPEN HOLES <u>15/16" (UN)</u>			
PAINT <u>NONE</u>			
APPROVAL	DRAWN <u>GDC</u> 12-9-14	SHEET NO. 11AB	JOB NO. 605
SHOP	CHECKED <u>FM</u> 1-5-15		



CAMBER DIAGRAM

LINE	NO. OF PCS.	SHIP MARK	ASSY MARK	MATERIAL						REMARKS
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.	ITEM NO.	
1	1	11G1C			GIRDER					23,124 lbs.
2	1		wa	PL	1/2 x 36	73	5 5/8	M270-50WT2	1 23	4500 lbs.
3	1		wb	PL	1/2 x 36	47	1 3/8	M270-50WT2	1 26	2886 lbs.
4	1		ta	PL	1 x 18	21	11 3/8	M270-50WT2	2 20	1346 lbs.
5	1		tb	PL	1 1/8 x 18	12	0	M270-50WT2	2 13	1011 lbs.
6	1		tc	PL	1 x 18	55	0	M270-50WT2	2 17	3369 lbs.
7	1		td	PL	1 x 18	31	6 1/2	M270-50WT2	2 19	1932 lbs.
8	1		ba	PL	1 x 18	21	11 3/8	M270-50WT2	2 20	1347 lbs.
9	1		bb	PL	1 1/4 x 18	12	0	M270-50WT2	2 15	919 lbs.
10	1		bc	PL	1 x 18	55	0	M270-50WT2	2 17	3369 lbs.
11	1		bd	PL	1 x 18	31	6	M270-50WT2	2 18	1929 lbs.
12										
13	4		x2a	PL	3/4 x 8 1/2	3	0	M270-50W	3 10	G1E 260 lbs.
14	7		x2b	PL	1/2 x 7	3	0	M270-50W	3 11	250 lbs.
15	1		x2p	PL	1/4 x 3 1/4	1	0 1/8	M270-50W	7 2	3 lbs.
16	1		x2v	PL	1/4 x 3	1	0 1/8	M270-50W	7 2	3 lbs.
17										
18										
19										
20										
21										
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STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57 PROJECT NO. BRF 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		GIRDER ~ 11G1C	
SURFACE PREP.		SSPC-SP10 OPEN HOLES	
PAINT		NONE	
APPROVAL	DRAWN	12-8-14	SHEET NO.
SHOP	CHECKED	1-5-15	11B
			JOB NO. 605

Spacing of waterline support beams are not all at 9'-0" spaces as shown on Contract Drawing Sheet 39 of 75. Maximum variation appears to be 9". The increase in span is acceptable, however the Contractor should refer to the Special Provision (Water Main on Bridge) to ensure compliance with the hanger distance to pipe joint requirements are also met.

T.Y. LIN INTERNATIONAL

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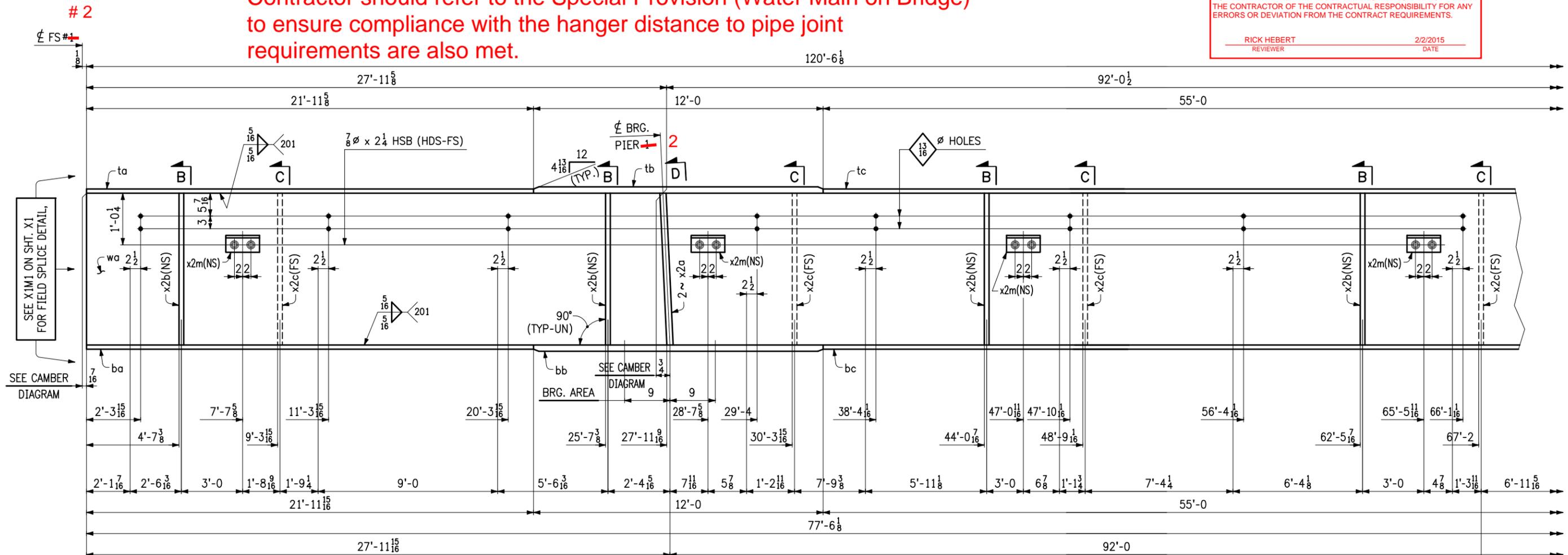
APPROVED
 X APPROVED AS NOTED
 REVISE AND RESUBMIT

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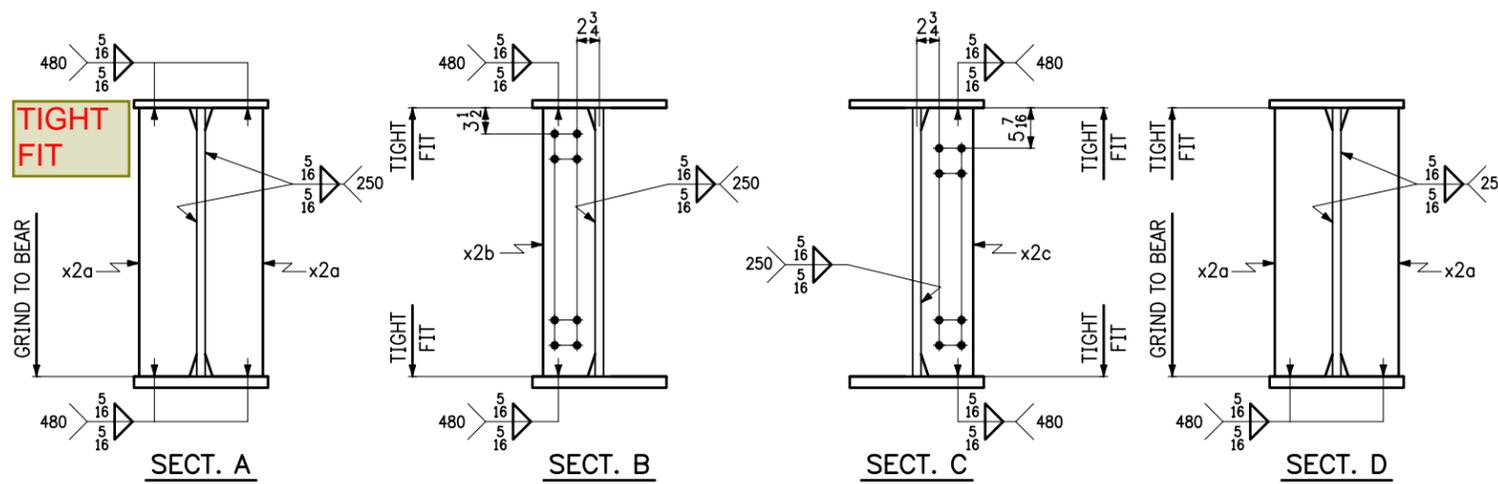
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RICK HEBERT
 REVIEWER

2/2/2015
 DATE



MATCHLINE
 CONT'D ON SHT. 12B

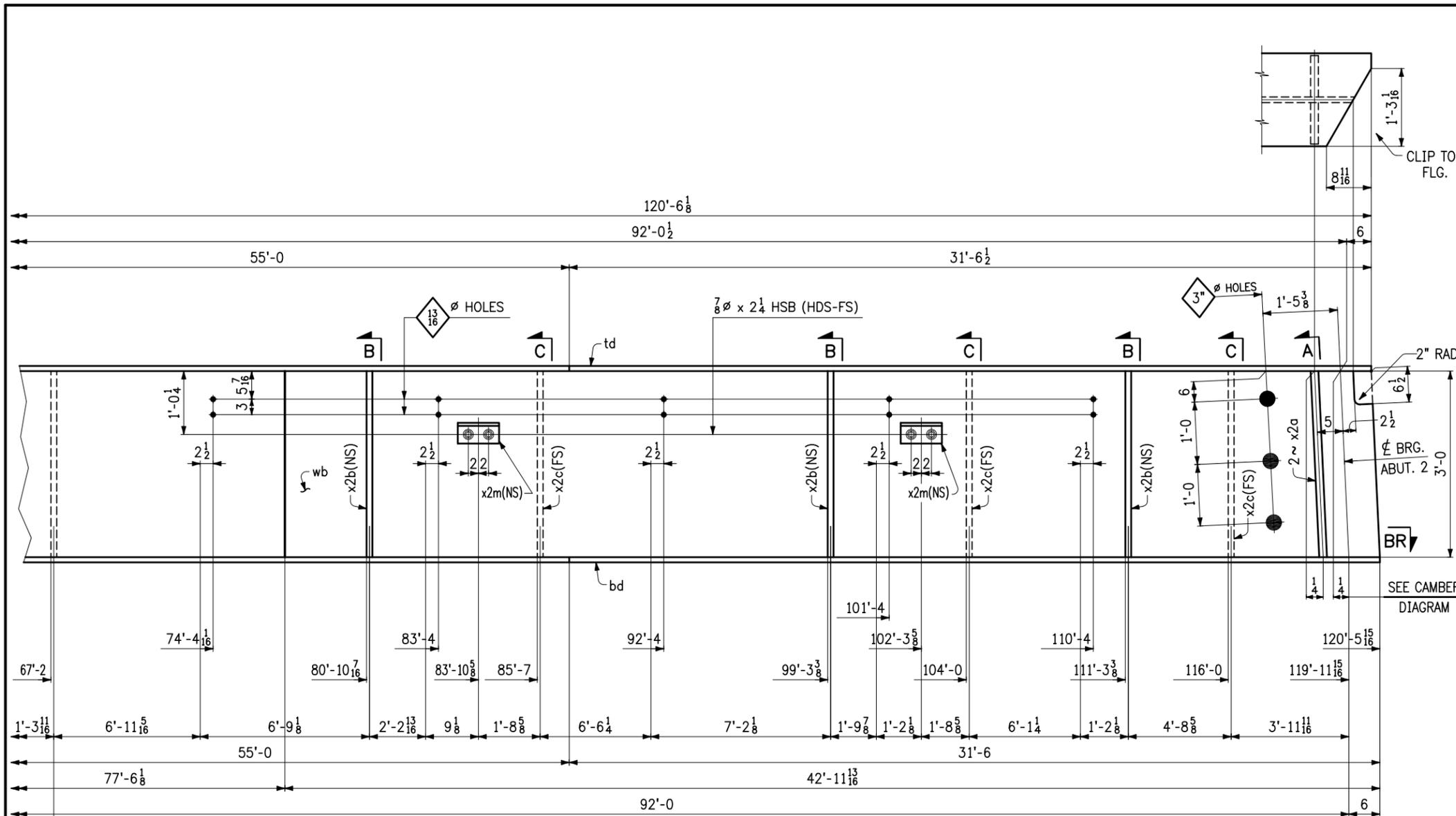


ONE ~ GIRDER ~ 12G2C

- FOR GIRDER STANDARD DETAILS, SEE SHT. X2.
- FOR WEB CUTTING DIAGRAM, SEE SHT. C4.
- FOR FLANGE CUTTING DIAGRAMS, SEE SHT. C4.
- FOR GENERAL NOTES, SEE SHT. GN1.
- "BRG. AREA" INDICATES AREA THAT MUST BE FLAT TO PROVIDE A UNIFORM EVEN CONTACT WITH SOLE PLATE.

Vermont Agency of Transportation
RECEIVED
 ON: **January 14, 2015**
 and Checked for
CONFORMANCE
 BY: **D Bonneau** DATE: **02/05/15**

NO.	DATE	REMARKS	BY
REVISIONS			
		CASCO BAY STEEL STRUCTURES ONE WALLACE AVENUE SOUTH PORTLAND, ME 04106 PHONE: 207-780-6722 FAX: 207-780-6726	
STRUCTURE <u>BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)</u>			
LOCATION <u>TOWN OF BENNINGTON, VERMONT</u>			
PROJECT NO. <u>BRIDGE NO. 57 PROJECT NO. BRF 1000(16)</u>			
ENGINEER <u>STATE OF VERMONT AGENCY OF TRANSPORTATION</u>			
CUSTOMER <u>ALPINE CONSTRUCTION</u>			
ITEM <u>GIRDER ~ 12G2C</u>			
SURFACE PREP. <u>SSPC-SP10</u> OPEN HOLES <u>15/16" (UN)</u>			
PAINT <u>NONE</u>			
APPROVAL	DRAWN <u>GDC</u> 12-8-14	SHEET NO. <u>12AB</u>	JOB NO. <u>605</u>
SHOP	CHECKED <u>FM</u> 1-6-15		



LINE NO.	NO. OF PCS.	SHIP MARK	ASS'Y MARK	MATERIAL						REMARKS
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.	ITEM NO.	
1	1	12G2C			GIRDER					23,406 lbs.
2	1		wa	PL	1/2 x 36	77	6 1/8	M270-50WT2	1 21	4750 lbs.
3	1		wb	PL	1/2 x 36	43	0 1/4	M270-50WT2	1 28	2635 lbs.
4	1		ta	PL	1 x 18	21	11 3/8	M270-50WT2	2 20	1346 lbs.
5	1		tb	PL	1 1/8 x 18	12	0	M270-50WT2	2 13	1011 lbs.
6	1		tc	PL	1 x 18	55	0	M270-50WT2	2 17	3369 lbs.
7	1		td	PL	1 x 18	31	6 1/2	M270-50WT2	2 19	1932 lbs.
8	1		ba	PL	1 x 18	21	11 3/8	M270-50WT2	2 20	1347 lbs.
9	1		bb	PL	1 1/4 x 18	12	0	M270-50WT2	2 15	919 lbs.
10	1		bc	PL	1 x 18	55	0	M270-50WT2	2 17	3369 lbs.
11	1		bd	PL	1 x 18	31	6	M270-50WT2	2 18	1929 lbs.
12										
13	4		x2a	PL	3/4 x 8 1/2	3	0	M270-50W	3 10	GIE 260 lbs.
14	7		x2b	PL	1/2 x 7	3	0	M270-50W	3 11	250 lbs.
15	7		x2c	PL	1/2 x 7	3	0	M270-50W	3 11	250 lbs.
16	6		x2m	L	4 x 4 x 3/8	0	8	M270-50W	3 13	39 lbs.
17										
18	12				7/8 HSB	0	2 1/4	M164 TYPE 3	6 2	
19	12				7/8 WASHER			M293-3	6 6	
20										
21										
22										
23										
24										
25										

T.Y. LIN INTERNATIONAL

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— — — APPROVED AS NOTED
— — — REVISE AND RESUBMIT

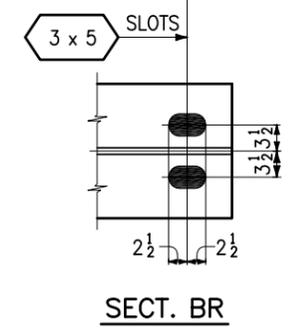
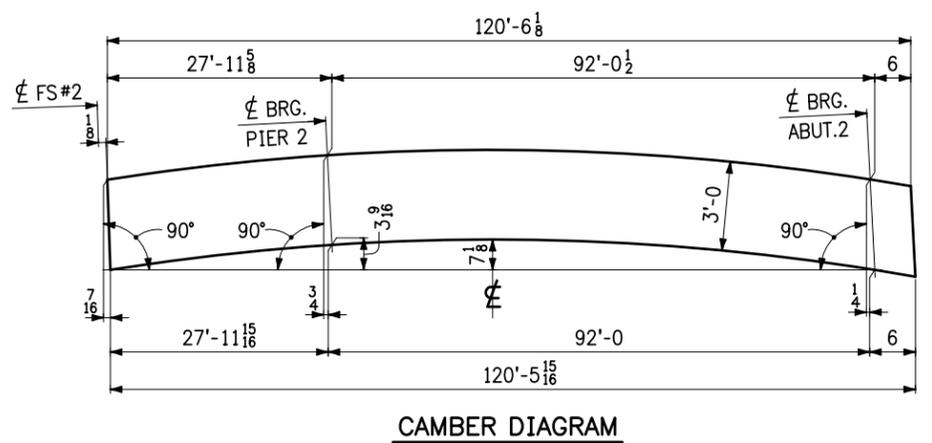
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RICK HEBERT
 REVIEWER

2/2/2015
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STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57 PROJECT NO. BRP 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		GIRDER ~ 12G2C	
SURFACE PREP.		SSPC-SP10 OPEN HOLES 15/16 (UN)	
PAINT		NONE	
APPROVAL	DRAWN	GDC 12-8-14	SHEET NO. 12B
SHOP	CHECKED	FM 1-6-15	JOB NO. 605



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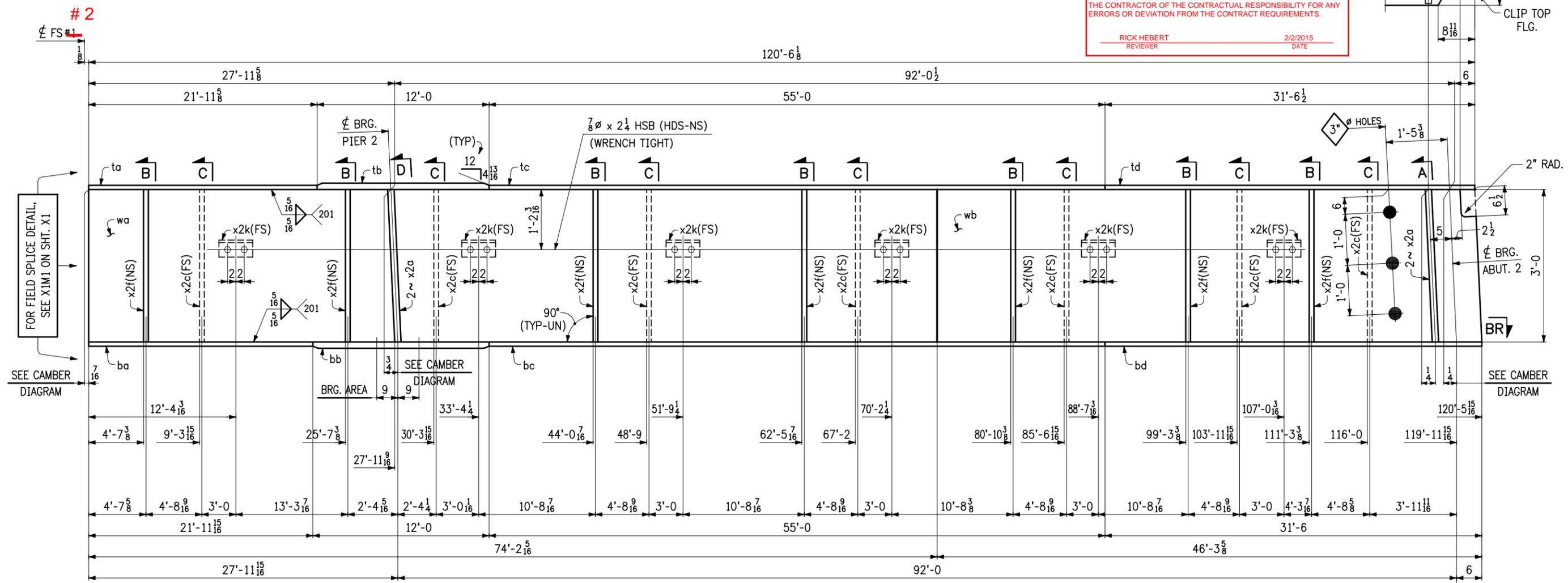
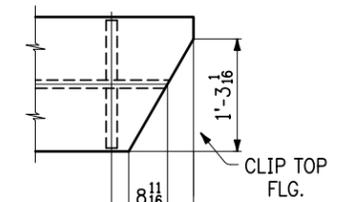
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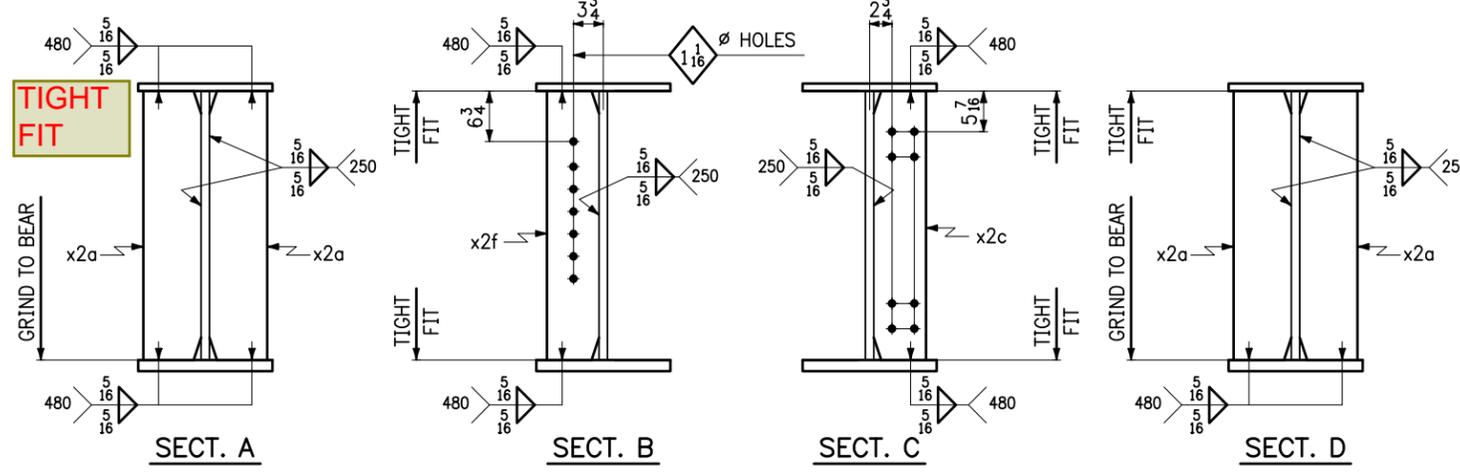
2/2/2015
DATE



FOR FIELD SPlice DETAIL, SEE X1M1 ON SHT. X1

SEE CAMBER DIAGRAM

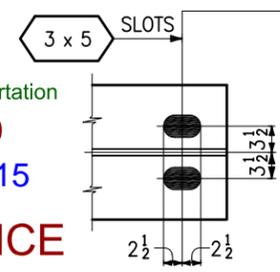
SEE CAMBER DIAGRAM



TIGHT FIT

GRIND TO BEAR

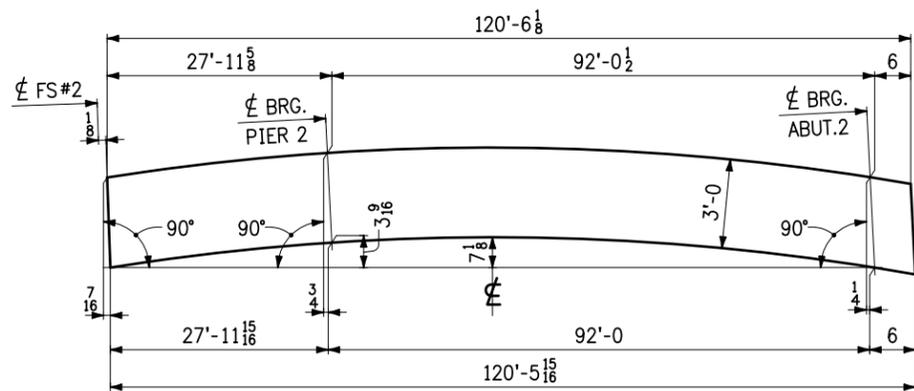
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SECT. BR

- ONE ~ GIRDER ~ 13G3C**
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 - FOR FLANGE CUTTING DIAGRAMS, SEE SHT. C4.
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PROJECT NO. <u>BRIDGE NO. 57 PROJECT NO. BRF 1000(16)</u>			
ENGINEER <u>STATE OF VERMONT AGENCY OF TRANSPORTATION</u>			
CUSTOMER <u>ALPINE CONSTRUCTION</u>			
ITEM <u>GIRDER ~ 13G3C</u>			
SURFACE PREP. <u>SSPC-SP10</u> OPEN HOLES <u>15/16" (UN)</u>			
PAINT <u>NONE</u>			
APPROVAL	DRAWN <u>GDC</u> 12-9-14	SHEET NO. 13AB	JOB NO. 605
SHOP	CHECKED <u>FM</u> 1-6-15		



CAMBER DIAGRAM

LINE	NO. OF PCS.	SHIP MARK	ASSY MARK	MATERIAL					REMARKS	
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.		ITEM NO.
1	1	13G3C			GIRDER					23,336 lbs.
2	1		wa	PL	1/2 x 36	74	2 13/16	M270-50WT2	1 22	4547 lbs.
3	1		wb	PL	1/2 x 36	46	4 1/8	M270-50WT2	1 27	2839 lbs.
4	1		ta	PL	1 x 18	21	11 3/8	M270-50WT2	2 20	1346 lbs.
5	1		tb	PL	1 1/2 x 18	12	0	M270-50WT2	2 13	1011 lbs.
6	1		tc	PL	1 x 18	55	0	M270-50WT2	2 17	3369 lbs.
7	1		td	PL	1 x 18	31	6 1/2	M270-50WT2	2 19	1932 lbs.
8	1		ba	PL	1 x 18	21	11 3/8	M270-50WT2	2 20	1347 lbs.
9	1		bb	PL	1 1/4 x 18	12	0	M270-50WT2	2 15	919 lbs.
10	1		bc	PL	1 x 18	55	0	M270-50WT2	2 17	3369 lbs.
11	1		bd	PL	1 x 18	31	6	M270-50WT2	2 18	1929 lbs.
12										
13	4		x2a	PL	3/4 x 8 1/2	3	0	M270-50W	3 10	G1E 260 lbs.
14	7		x2c	PL	1/2 x 7	3	0	M270-50W	3 11	250 lbs.
15	7		x2f	PL	1/2 x 5	3	0	M270-50W	3 12	179 lbs.
16	6		x2k	L	4 x 4 x 3/8	0	8	M270-50W	3 13	39 lbs.
17										
18	12				7/8 HSB	0	2 1/4	M164 TYPE 3	6 2	
19	12				7/8 WASHER			M293-3	6 6	
20										
21										
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CUSTOMER	ALPINE CONSTRUCTION		
ITEM	GIRDER ~ 13G3C		
SURFACE PREP.	SSPC-SP10	OPEN HOLES	
PAINT	NONE		
APPROVAL	DRAWN <i>GDC</i> 12-8-14	SHEET NO.	JOB NO.
SHOP	CHECKED <i>FM</i> 1-6-15	13B	605

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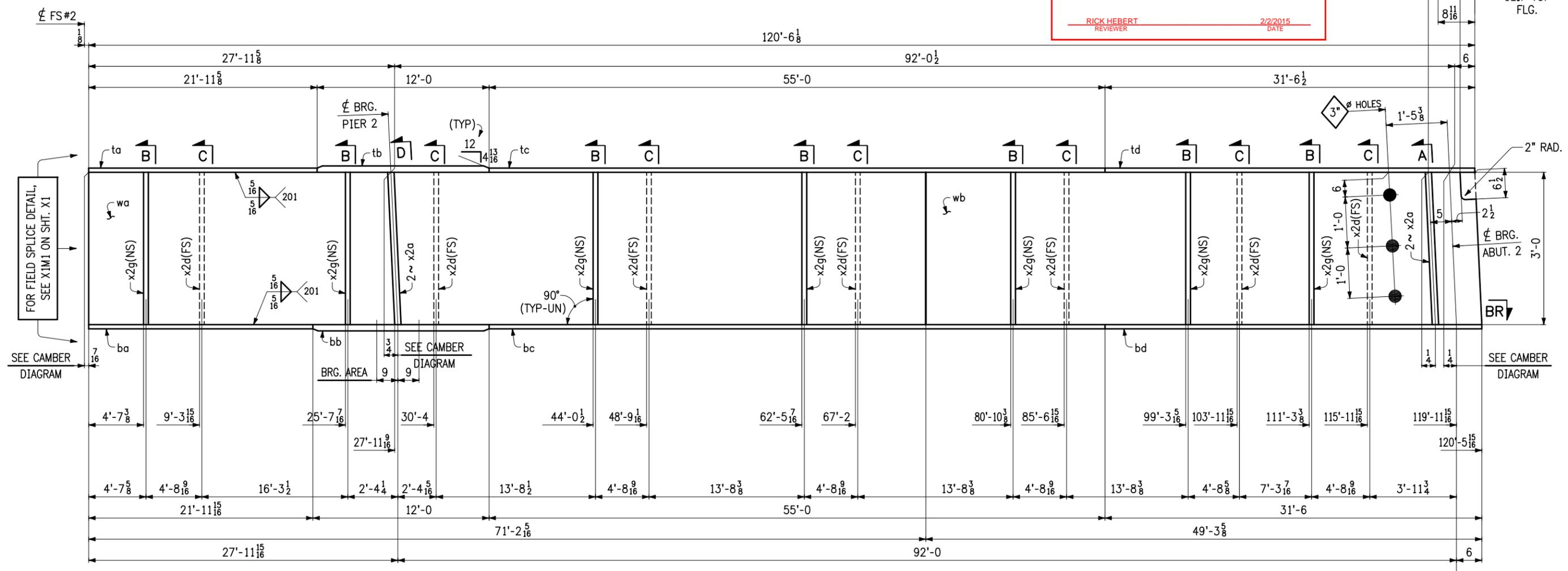
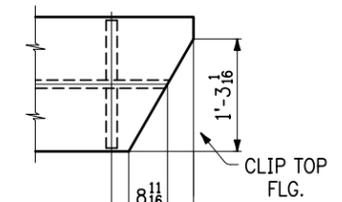
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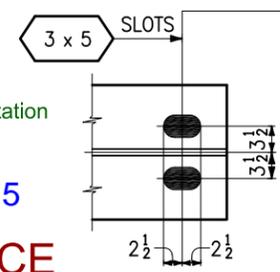
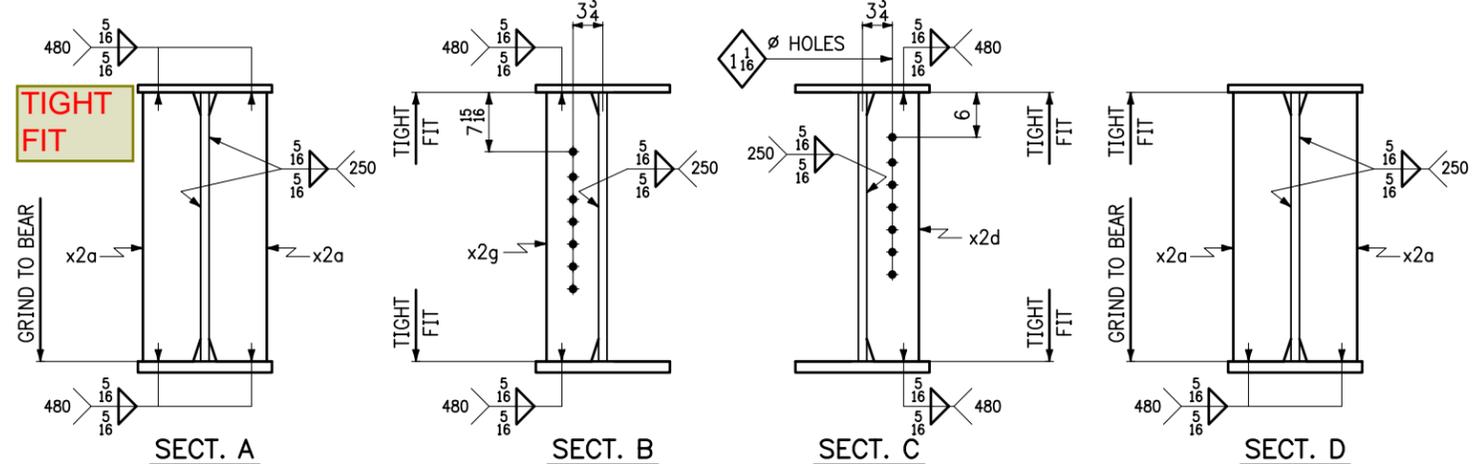
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FOR FIELD SPlice DETAIL, SEE X.1M1 ON SHT. X1

SEE CAMBER DIAGRAM

SEE CAMBER DIAGRAM

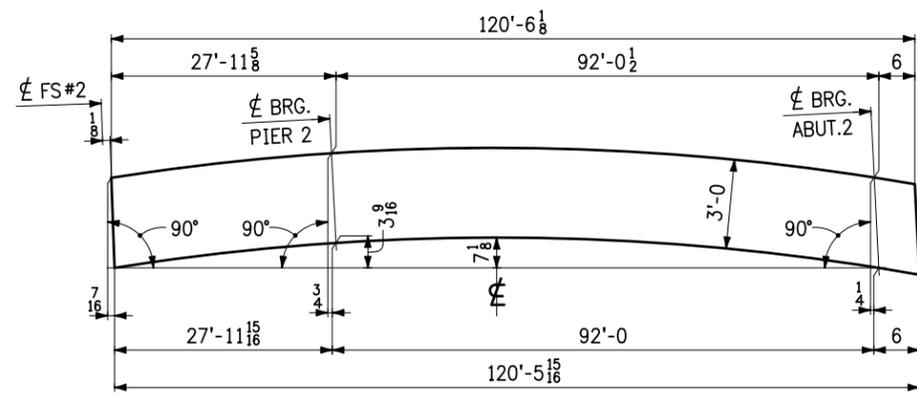


SECT. BR

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- ONE ~ GIRDER ~ 14G4C**
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PROJECT NO.		BRIDGE NO. 57 PROJECT NO. BRF 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		GIRDER ~ 14G4C	
SURFACE PREP.		SSPC-SP10 OPEN HOLES 15/16" (UN)	
PAINT		NONE	
APPROVAL	DRAWN <i>GDC</i> 12-9-14	SHEET NO.	JOB NO.
SHOP	CHECKED <i>FM</i> 1-6-15	14AB	605



CAMBER DIAGRAM

LINE	NO. OF PCS.	SHIP MARK	ASSY MARK	MATERIAL						REMARKS
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.	ITEM NO.	
1	1	14G4C			GIRDER					23,225 lbs.
2	1		wa	PL	1/2 x 36	71	2 13/16	M270-50WT2	1 24	4363 lbs.
3	1		wb	PL	1/2 x 36	49	4 1/8	M270-50WT2	1 25	3022 lbs.
4	1		ta	PL	1 x 18	21	11 3/8	M270-50WT2	2 20	1346 lbs.
5	1		tb	PL	1 1/8 x 18	12	0	M270-50WT2	2 13	1011 lbs.
6	1		tc	PL	1 x 18	55	0	M270-50WT2	2 17	3369 lbs.
7	1		td	PL	1 x 18	31	6 1/2	M270-50WT2	2 19	1932 lbs.
8	1		ba	PL	1 x 18	21	11 3/8	M270-50WT2	2 20	1347 lbs.
9	1		bb	PL	1 1/4 x 18	12	0	M270-50WT2	2 15	919 lbs.
10	1		bc	PL	1 x 18	55	0	M270-50WT2	2 17	3369 lbs.
11	1		bd	PL	1 x 18	31	6	M270-50WT2	2 18	1929 lbs.
12										
13	4		x2a	PL	3/4 x 8 1/2	3	0	M270-50W	3 10	G1E 260 lbs.
14	7		x2d	PL	1/2 x 5	3	0	M270-50W	3 12	179 lbs.
15	7		x2g	PL	1/2 x 5	3	0	M270-50W	3 12	179 lbs.
16										
17										
18										
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RICK HEBERT
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CUSTOMER	ALPINE CONSTRUCTION		
ITEM	GIRDER ~ 14G4C		
SURFACE PREP.	SSPC-SP10	OPEN HOLES	
PAINT	NONE		
APPROVAL	DRAWN <i>GDC</i> 12-8-14	SHEET NO.	JOB NO.
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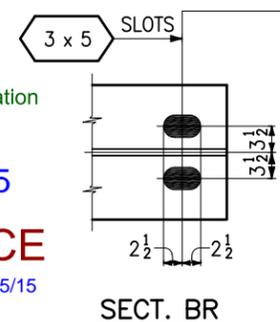
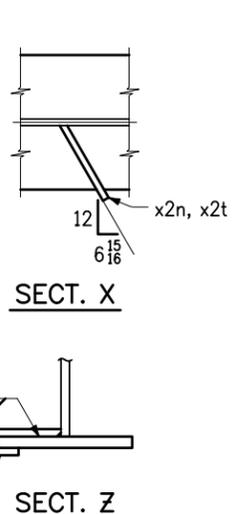
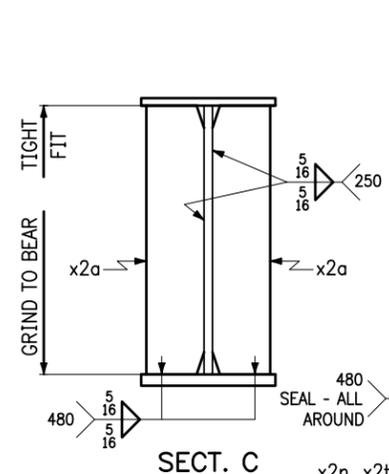
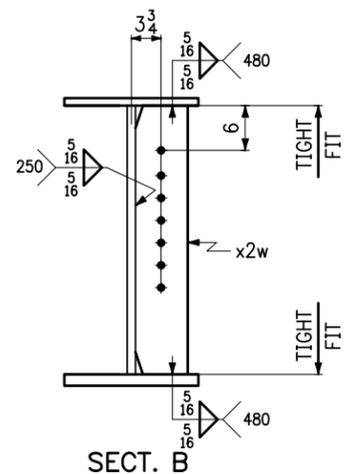
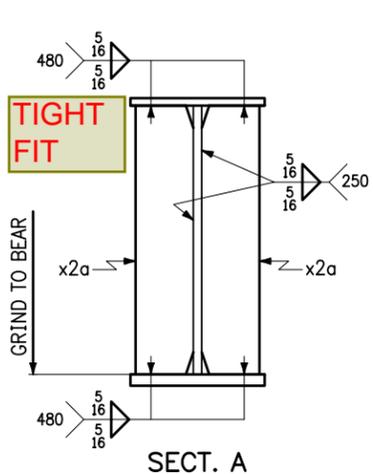
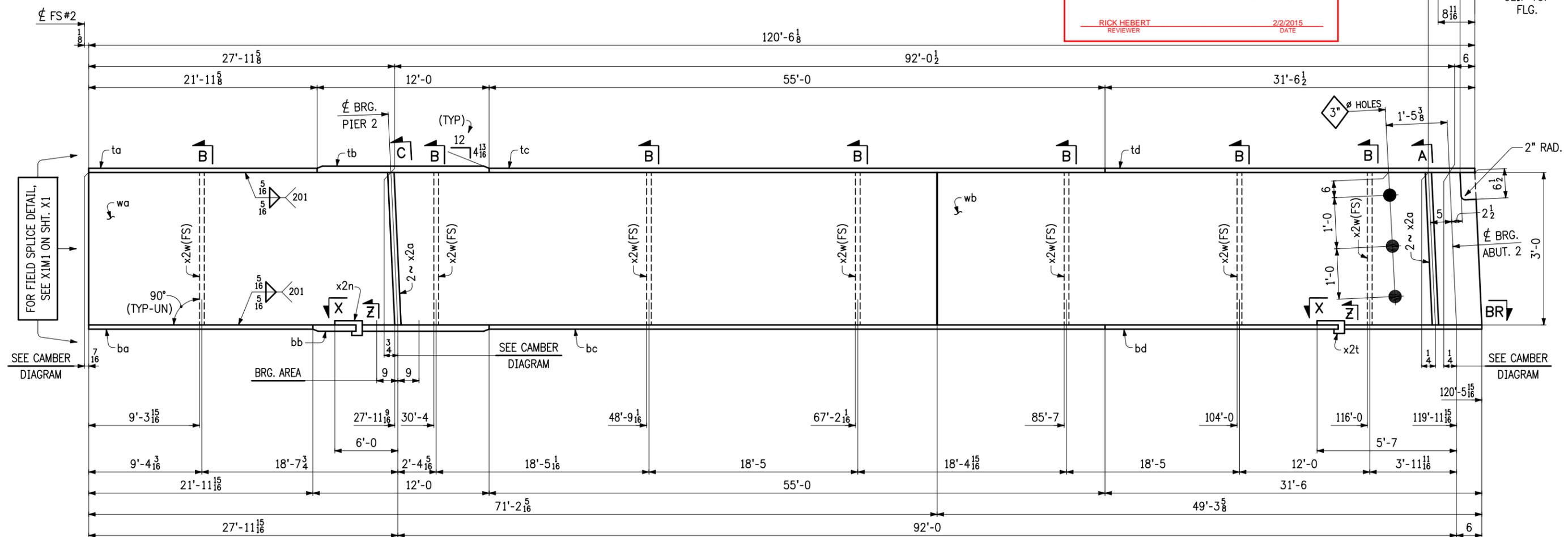
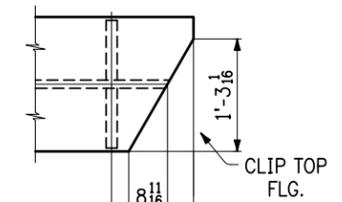
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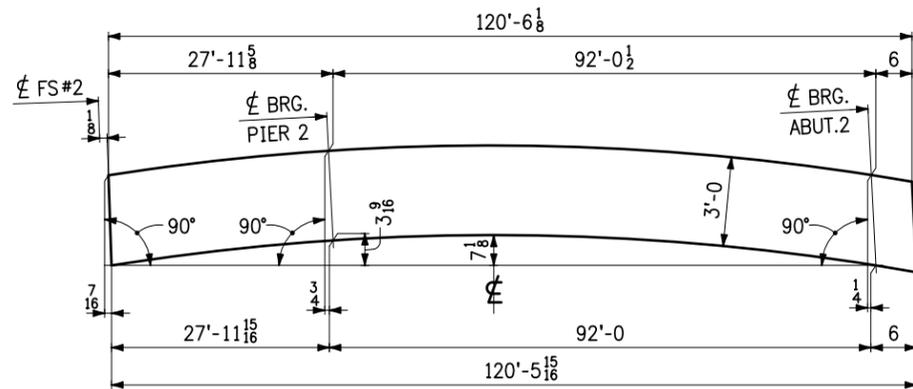
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CUSTOMER <u>ALPINE CONSTRUCTION</u>			
ITEM <u>GIRDER ~ 15G5C</u>			
SURFACE PREP. <u>SSPC-SP10</u> OPEN HOLES <u>15/16" (UN)</u>			
PAINT <u>NONE</u>			
APPROVAL	DRAWN <u>GDC</u> 12-9-14	SHEET NO. 15AB	JOB NO. 605
SHOP	CHECKED <u>FM</u> 1-6-15		



CAMBER DIAGRAM

LINE	NO. OF PCS.	SHIP MARK	ASS'Y MARK	MATERIAL						REMARKS
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.	ITEM NO.	
1	1	15G5C			GIRDER					23,052 lbs.
2	1		wa	PL	1/2 x 36	71	2 13/16	M270-50WT2	1 24	4363 lbs.
3	1		wb	PL	1/2 x 36	49	4 1/8	M270-50WT2	1 25	3022 lbs.
4	1		ta	PL	1 x 18	21	11 3/8	M270-50WT2	2 20	1346 lbs.
5	1		tb	PL	1 1/2 x 18	12	0	M270-50WT2	2 13	1011 lbs.
6	1		tc	PL	1 x 18	55	0	M270-50WT2	2 17	3369 lbs.
7	1		td	PL	1 x 18	31	6 1/2	M270-50WT2	2 19	1932 lbs.
8	1		ba	PL	1 x 18	21	11 3/8	M270-50WT2	2 20	1347 lbs.
9	1		bb	PL	1 1/4 x 18	12	0	M270-50WT2	2 15	919 lbs.
10	1		bc	PL	1 x 18	55	0	M270-50WT2	2 17	3369 lbs.
11	1		bd	PL	1 x 18	31	6	M270-50WT2	2 18	1929 lbs.
12										
13	4		x2a	PL	3/4 x 8 1/2	3	0	M270-50W	3 10	G1E 260 lbs.
14	7		x2w	PL	1/2 x 5	3	0	M270-50W	3 12	179 lbs.
15	1		x2n	PL	1/4 x 3 1/4	1	0 1/8	M270-50W	7 2	3 lbs.
16	1		x2t	PL	1/4 x 3	1	0 1/8	M270-50W	7 2	3 lbs.
17										
18										
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Vermont Agency of Transportation
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 BY: **D Bonneau** DATE: **02/05/15**

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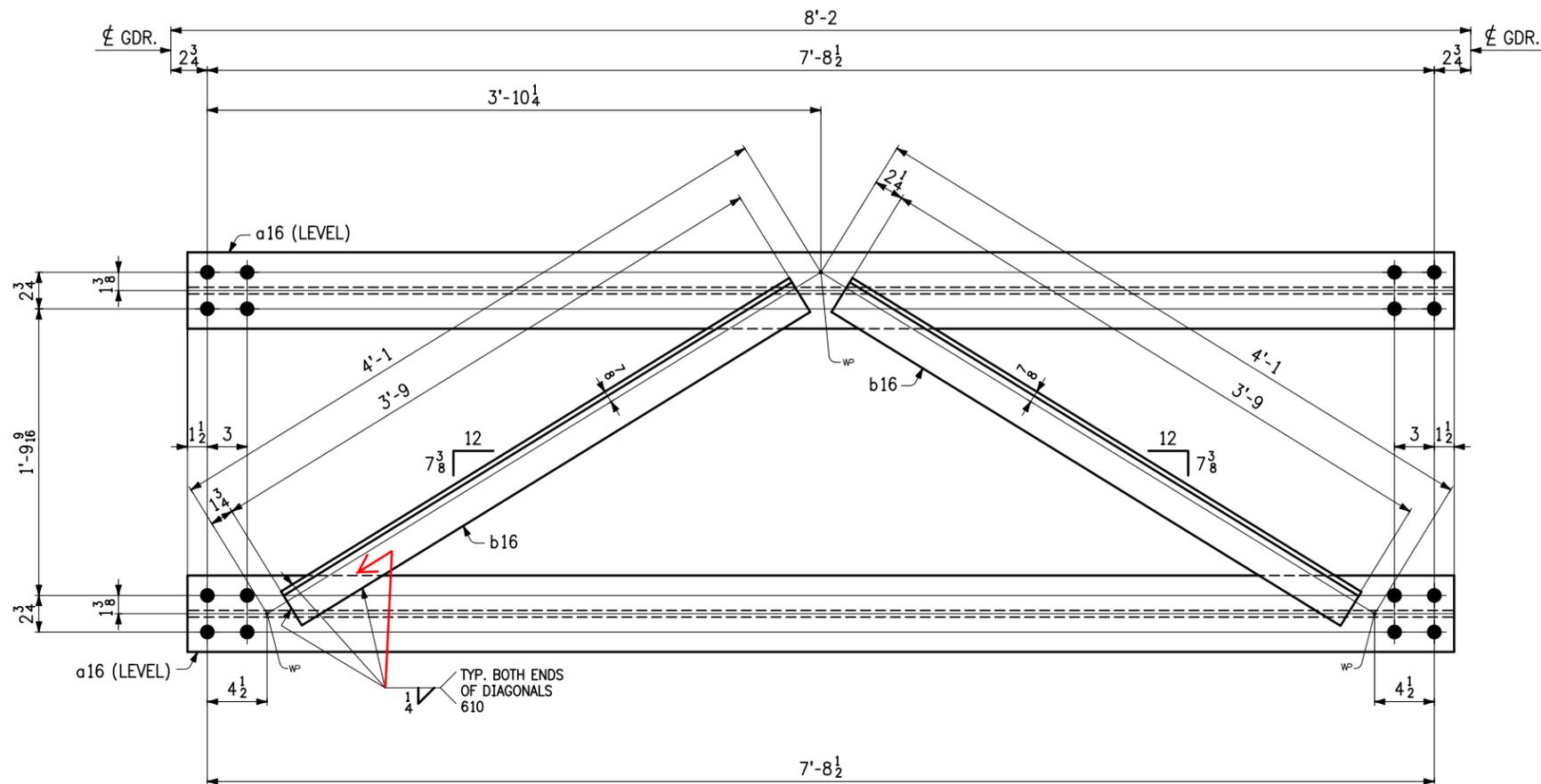
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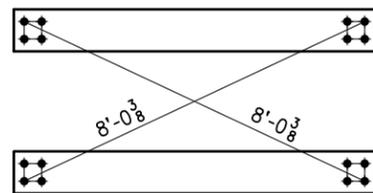
RICK HEBERT
REVIEWER

2/2/2015
DATE

NO.	DATE	REMARKS						BY	
REVISIONS									
					CASCO BAY STEEL STRUCTURES <small>ONE WALLACE AVENUE SOUTH PORTLAND, ME 04106 PHONE: 207-780-6722 FAX: 207-780-6726</small>				
STRUCTURE <u>BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)</u>									
LOCATION <u>TOWN OF BENNINGTON, VERMONT</u>									
PROJECT NO. <u>BRIDGE NO. 57 PROJECT NO. BRP 1000(16)</u>									
ENGINEER <u>STATE OF VERMONT AGENCY OF TRANSPORTATION</u>									
CUSTOMER <u>ALPINE CONSTRUCTION</u>									
ITEM <u>GIRDER ~ 15G5C</u>									
SURFACE PREP. <u>SSPC-SP10</u> OPEN HOLES _____									
PAINT <u>NONE</u>									
APPROVAL	DRAWN	GDC	12-10-14	SHEET NO.	JOB NO.				
SHOP	CHECKED	FM	1-6-15	15B	605				



30 ~ CROSSFRAMES ~ 16CF1



CROSS CORNER CHECK

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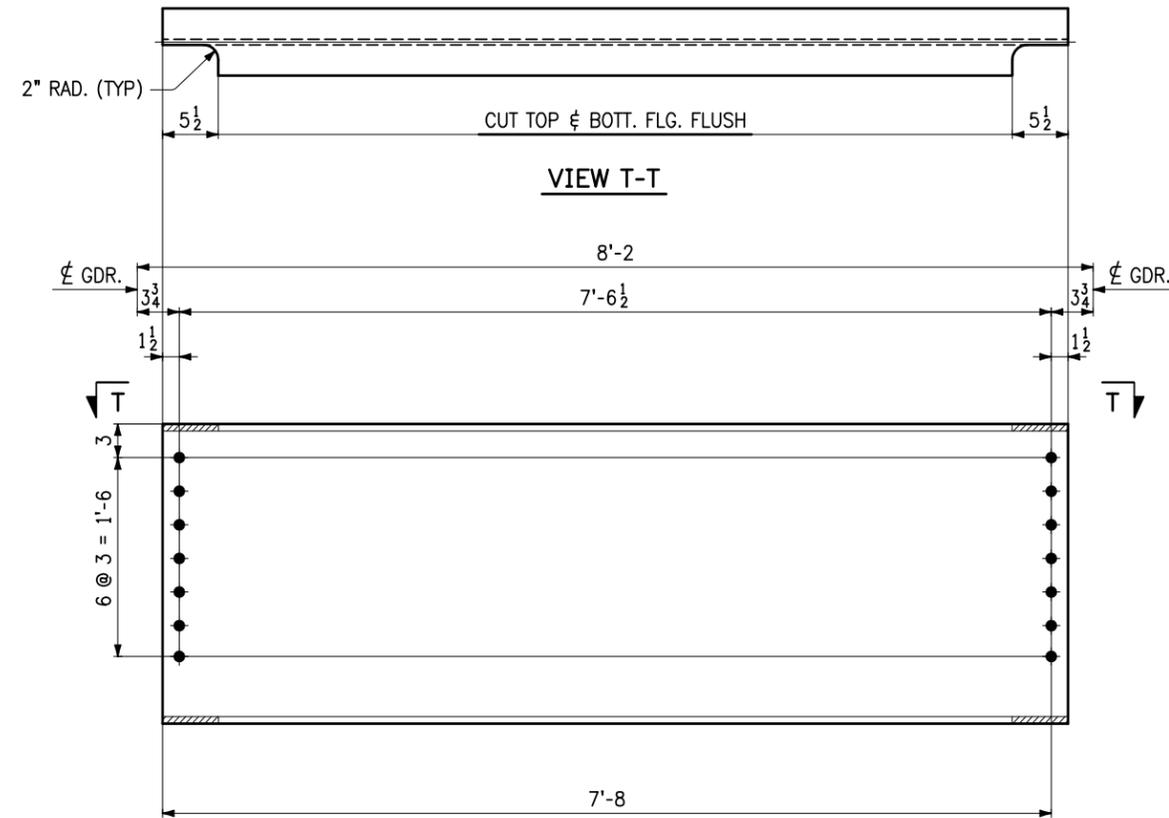
LINE	NO. OF PCS.	SHIP MARK	ASSY MARK	MATERIAL					REMARKS	
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.		ITEM NO.
1	30	16CF1		CROSSFRAMES					6873 lbs	
2	60		a16	WT	5 x 11	7	11 1/2	M270-50W	4 2	5253 lbs
3	60		b16	L	3 x 3 x 3/8	3	9	M270-50W	4 3	1620 lbs
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REVISIONS									
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STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)							
LOCATION		TOWN OF BENNINGTON, VERMONT							
PROJECT NO.		BRIDGE NO. 57		PROJECT NO. BRP 1000(16)					
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION							
CUSTOMER		ALPINE CONSTRUCTION							
ITEM		CROSSFRAMES							
SURFACE PREP.		SSPC-SP10		OPEN HOLES $\frac{15}{16}$ "					
PAINT		NONE							
APPROVAL		DRAWN <i>GDC</i> 12-4-14		SHEET NO.		JOB NO.			
SHOP		CHECKED <i>FM</i> 1-6-15		16		605			



30 ~ DIAPHRAGMS ~ 17D1

LINE	NO. OF PCS.	SHIP MARK	ASSY MARK	MATERIAL					REMARKS	
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.		ITEM NO.
1					DIAPHRAGMS					
2	30	17D1		W	27 x 84	7	9 1/2	M270-50W	4	19,635 lbs.
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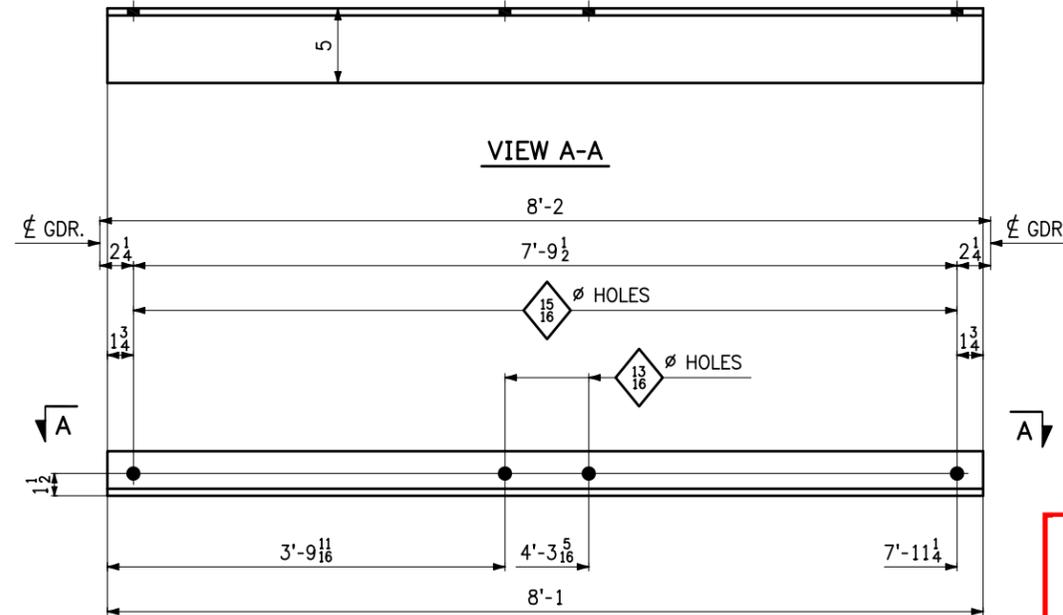
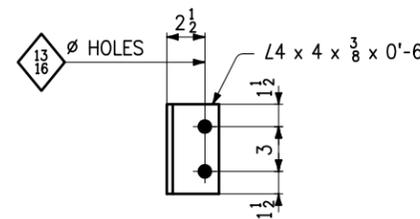
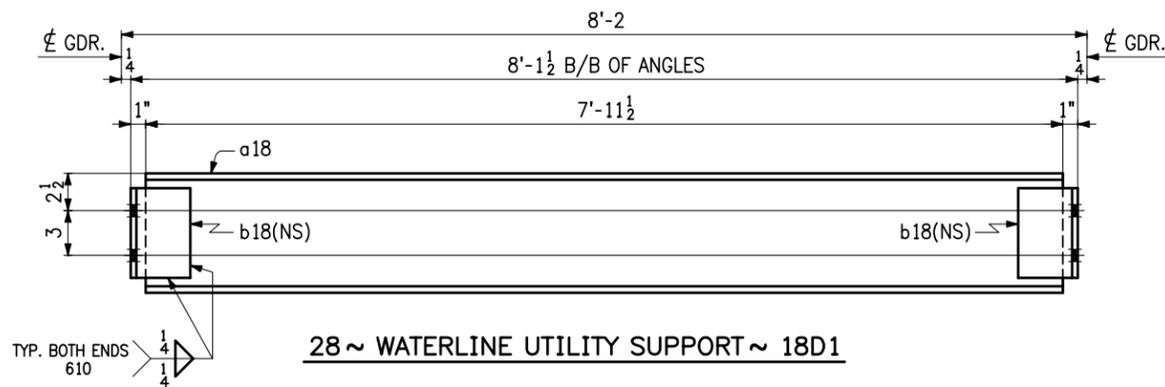
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RICK HEBERT
 REVIEWER

2/2/2015
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REVISIONS			
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STRUCTURE	BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)		
LOCATION	TOWN OF BENNINGTON, VERMONT		
PROJECT NO.	BRIDGE NO. 57 PROJECT NO. BRP 1000(16)		
ENGINEER	STATE OF VERMONT AGENCY OF TRANSPORTATION		
CUSTOMER	ALPINE CONSTRUCTION		
ITEM	DIAPHRAGMS		
SURFACE PREP.	SSPC-SP10	OPEN HOLES	15/16"
PAINT	NONE		
APPROVAL	DRAWN <i>GDC</i> 12-4-14	SHEET NO.	JOB NO.
SHOP	CHECKED <i>FM</i> 1-6-15	17	605



LINE	NO. OF PCS.	SHIP MARK	ASSY MARK	MATERIAL					REMARKS	
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.		ITEM NO.
1	28	18D1		WATERLINE UTILITY SUPPORTS					7182 lbs.	
2	28		a18	W	8 x 31	7	11 1/2	M270-50W	4 6	6908 lbs.
3	56		b18	L	4 x 4 x 3/8	0	6	M270-50W	4 7	274 lbs.
4										
5				DUCT BANK SUPPORTS						
6	13	18D2		L	5 x 3 x 3/8	8	1	M270-50W	4 5	1030 lbs.
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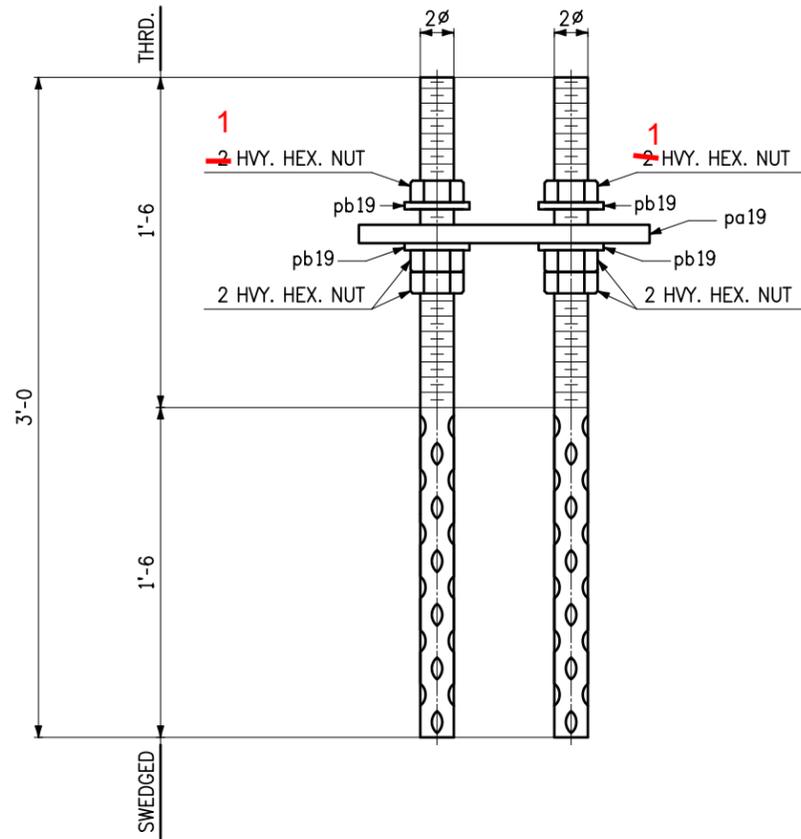
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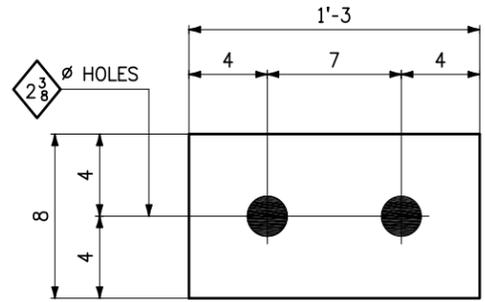
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RICK HEBERT REVIEWER 2/2/2015 DATE

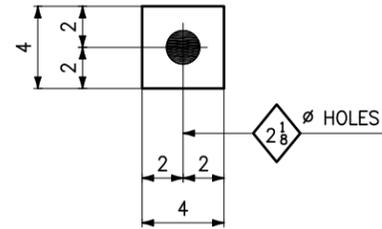
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REVISIONS			
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STRUCTURE		BENMONT AVE. (TH-7) (URBAN MINOR ARTERIAL)	
LOCATION		TOWN OF BENNINGTON, VERMONT	
PROJECT NO.		BRIDGE NO. 57 PROJECT NO. BRP 1000(16)	
ENGINEER		STATE OF VERMONT AGENCY OF TRANSPORTATION	
CUSTOMER		ALPINE CONSTRUCTION	
ITEM		UTILITY SUPPORTS	
SURFACE PREP.		SSPC-SP10	OPEN HOLES AS NOTED
PAINT		NONE	
APPROVAL	DRAWN	GDC 12-5-14	SHEET NO. 18
SHOP	CHECKED	FM 1-6-15	JOB NO. 605



10 ~ LEVELING BOLT ASSEMBLIES ~ 19AB
(ABUT. 1 & 2)



LEVELING PLATE DETAIL ~ pa19



SQUARE WASHER DETAIL ~ pb19

LINE	NO. OF PCS.	SHIP MARK	ASSY MARK	MATERIAL					REMARKS	
				SHAPE	SECTION	LENGTH FT.	IN.	MATERIAL SPEC.		ITEM NO.
1	10	19AB		LEVELING ASSEMBLY					1379 lbs.	
2	20			ROD	2 \emptyset	3	0	F1554-55	4/14	640 lbs.
3	60			NUT	2 \emptyset			A563M	4/15	180 lbs.
4	10		pa19	PL	1 3/8 x 8	1	3	M270-50W	4/17	468 lbs.
5	40		pb19	PL	1/2 x 4	0	4	M270-50W	4/16	91 lbs.
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LOCATION	TOWN OF BENNINGTON, VERMONT		
PROJECT NO.	BRIDGE NO. 57 PROJECT NO. BRF 1000(16)		
ENGINEER	STATE OF VERMONT AGENCY OF TRANSPORTATION		
CUSTOMER	ALPINE CONSTRUCTION		
ITEM	GIRDER LEVELING ASSEMBLY		
SURFACE PREP.	OPEN HOLES AS NOTED		
PAINT	NONE		
APPROVAL	DRAWN <i>MAY</i> 12-9-14	SHEET NO.	JOB NO.
SHOP	CHECKED <i>GDC</i> 12-10-14	19	605