

**GENERAL NOTES**

**CONSTRUCTION SPECIFICATIONS**

- 1) ALL MATERIAL AND WORKMANSHIP TO BE IN ACCORDANCE WITH THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011 WITH LATEST REVISIONS AND THE AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS FOR HIGHWAY BRIDGES DATED 2010, AND ITS LATEST REVISIONS.

**MATERIAL SPECIFICATIONS**

- 1) UNLESS OTHERWISE NOTED, ALL STEEL TO BE UNPAINTED AASHTO M270 (ASTM A709) GRADE 50W.
- 2) MATERIAL NOTED "CVN" OR "T2" ON DETAIL DRAWINGS SHALL BE CHARNY V-NOTCH TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF VERMONT STANDARD SPECIFICATIONS SECTION 714.01.
- 3) HIGH STRENGTH BOLTS:  
 -ASTM A325 (AASHTO M164) TYPE 3 W/ A563 GRADE C3 NUTS & F436W WASHERS IN NON-PAINTED AREAS.  
 -ASTM A325 (AASHTO M164) TYPE 1 (GALV.) W/ A563 GRADE DH NUTS & F436 WASHERS IN PAINTED AREAS.  
 BOLTS & NUTS SHALL BE ROTATIONAL CAPACITY TESTED. DO NOT MIX NUTS & BOLTS FROM DIFFERENT CONTAINERS UNLESS ALL BOLTS & NUTS HAVE THE SAME LOT NUMBER.
- 4) DIRECT TENSION INDICATOR WASHERS CONFORMING TO ASTM F959 SHALL BE INSTALLED WITH ALL HIGH STRENGTH BOLTS.

**FABRICATION**

- 1) ALL HOLES SHALL BE PUNCHED OR DRILLED FULL SIZE (UN).

**WELDING**

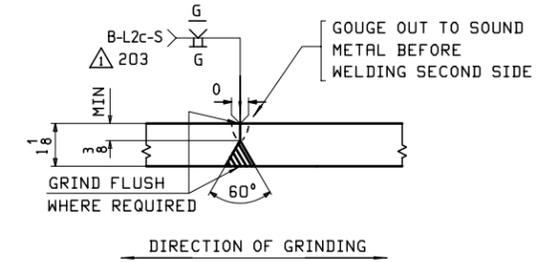
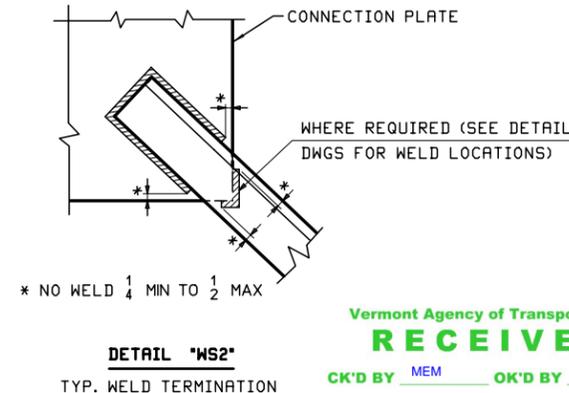
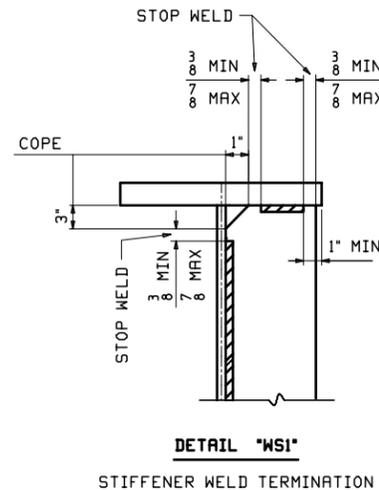
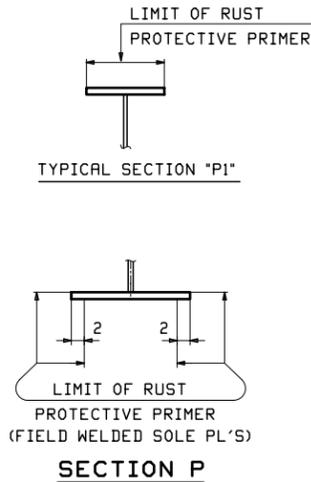
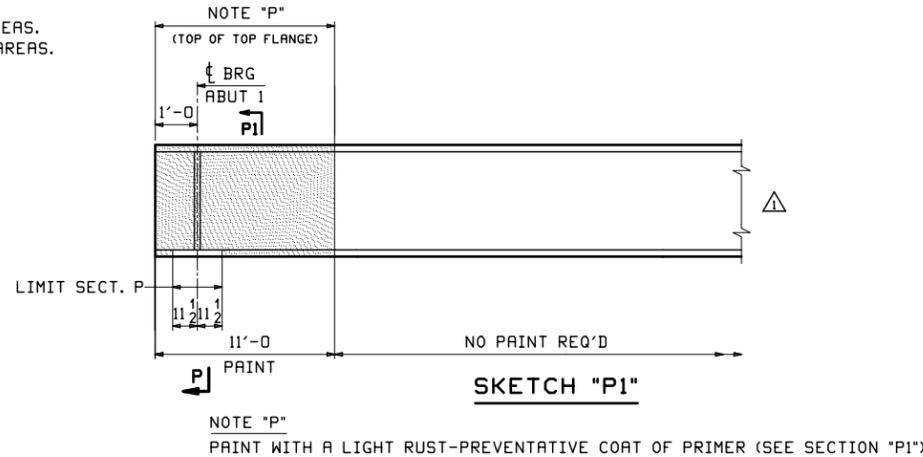
- 1) THE CONFIGURATION OF THE WELD JOINTS AND ALL WELDING PROCEDURES SHALL BE IN ACCORDANCE WITH AASHTO/AWS D1.5-10 BRIDGE WELDING CODE AND IN ADDITION TO SPECIFICATIONS SHOWN ABOVE. ALL WELDING WILL BE DETAILED TO PRE-QUALIFIED JOINTS, UNLESS PROHIBITED BY THE DESIGNER.
- 2) WELDING OF MAIN LOAD CARRYING MEMBERS AND ATTACHMENTS SHALL BE PERFORMED USING THE AUTOMATIC SUBMERGED ARC & SHIELDED METAL ARC PROCESSES. ALL WELDS ARE CONTINUOUS U.N.
- 3) NON DESTRUCTIVE TESTING OF WELDS SHALL BE IN ACCORDANCE WITH THE REFERENCED SPECIFICATION.
- 4) SEE DETAILS "WS1 & WS2" ON THIS DRAWING FOR WELD TERMINATION DETAIL.

**FIELD CONNECTIONS**

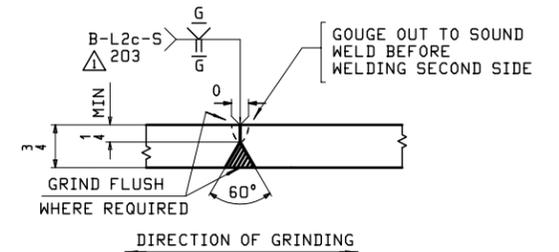
- 1) ALL FIELD CONNECTIONS SHALL BE MADE WITH A-325 HS BOLTS, INSTALLED PER SECTION 506.19(c). BOLTED CONNECTIONS SHALL BE INSTALLED USING DIRECT TENSION INDICATORS. REFER TO SECTION 506.19 OF THE GENERAL SPECIAL PROVISIONS. (SEE TYPICAL BOLT DETAIL").
- 2) BOLTS SHALL HAVE HEAVY HEX NUT, HEAVY HEX HEAD, AND AT LEAST ONE FLAT WASHER EACH. WASHER TO BE PLACED UNDER TURNED ELEMENT.
- 3) PIECE MARKS WILL BE LOCATED AS SHOWN ON ERECTION DRAWINGS.

**CLEANING & PAINTING:**

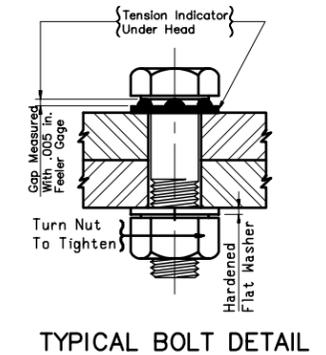
- 1). UNPAINTED STEEL SHALL BE BLAST CLEANED TO SSPC SP-10 TO ACHIEVE A UNIFORM WEATHERED APPEARANCE.
- 2). PAINT ALL STEEL WITHIN 10'-0" OF  $\frac{1}{4}$  OF BRG AT ABUT 1. PAINT GIRDERS ACCORDING TO SKETCH P1 (BELOW). ALL AREAS NOTED SHALL BE PAINTED WITH THE THREE (3) COAT, ZINC RICH SYSTEM DESCRIBED BELOW. ALL MATERIAL TO RECEIVE PAINT SHALL BE BLAST CLEANED TO SSPC SP-10 IN ACCORDANCE WITH SECTION 506 OF THE SPECIAL PROVISIONS.
- 3). PAINT SYSTEM SHALL BE AS FOLLOWS:  
 PRIMER: CARBOLINE 859 ORGANIC ZINC RICH PRIMER - 3.0 - 5.0 MILS DFT.  
 INTERMEDIATE: CARBOLINE 888 EPOXY - 4.0-6.0 MILS DFT.  
 TOPCOAT: CARBOLINE 133 HB ALIPHATIC POLYURETHANE - 3.0-5.0 MILS DFT.  
 TOPCOAT COLOR: BROWN, FED. COLOR #20062. - SUBMIT COLOR SAMPLE TO DEPARTMENT.
- 4) PRIME COAT ONLY WITHIN 3' OF OPEN HOLES IN PAINTED AREAS.



**FLANGE PLATE SPLICE DETAIL "FA"**



**WEB PLATE SPLICE DETAIL "WB"**

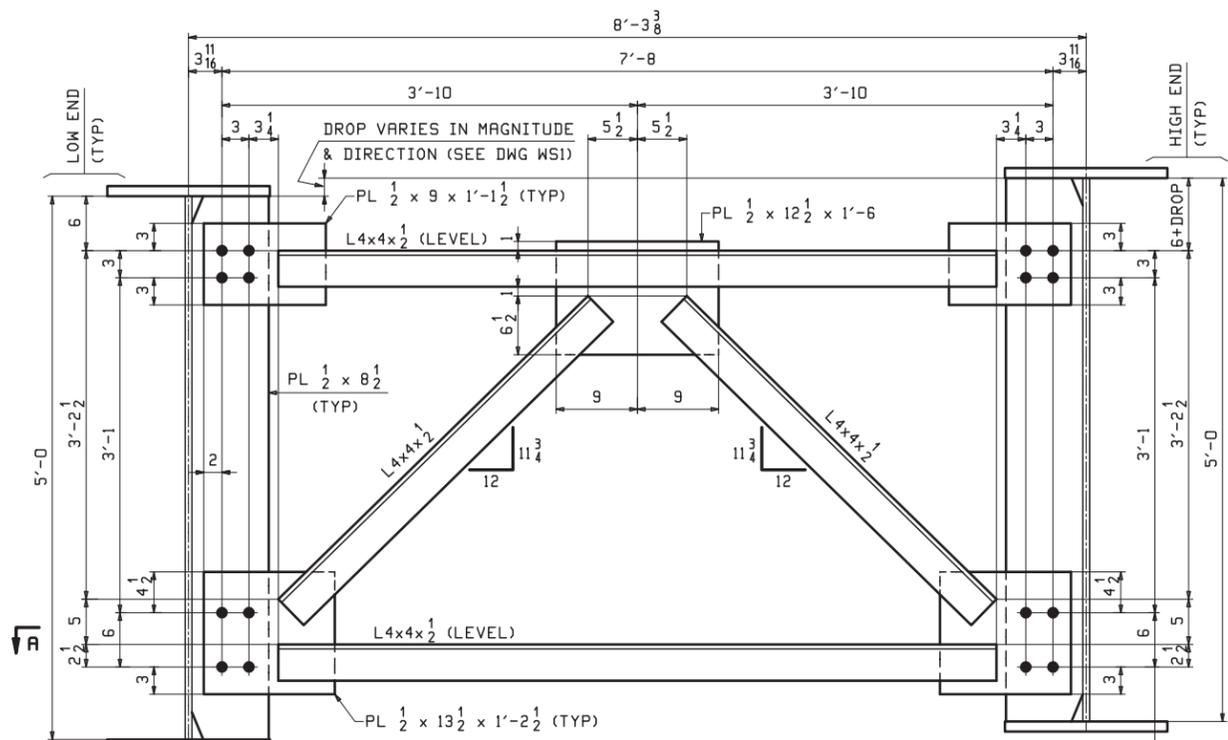


**TYPICAL BOLT DETAIL**

**NOTE TO ENGINEER:**  
 THESE NOTES ARE NOT INTENDED TO BE ALL INCLUSIVE AND COMPLIANCE WITH RELEVANT SPECIFICATIONS REMAIN UNCHANGED.

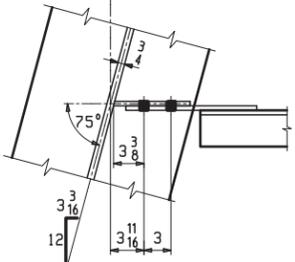
Vermont Agency of Transportation  
**RECEIVED**  
 CK'D BY MEM OK'D BY CWC  
 Apr. 17, 2015  
 RESUBMIT APPROVED  
 BY C. Carlson DATE 04-20-2015

1/19/15	APPROVAL COMMENTS	JTB	WL		
0					
REV. DATE	REMARKS	DWN	CHK	APVL	SHOP
MATERIAL:		SURFACE PREP. & PAINT:		HOLES:	
				SHOP BOLTS:	
DESCRIPTION: GENERAL NOTES					
CASCO BAY STEEL STRUCTURES, INC. 1 WALLACE AVE. SOUTH PORTLAND, ME 04106 PHONE (207) 780-6722 FAX. (207) 780-6725		TENOR 9284			
STRUCTURE: TH-8 (RIVER STREET) OVER OTTER CREEK BRIDGE NO: 2 (TH 8) RUTLAND CITY BRIDGE REPLACEMENT		DRAWN: JTB	DATE: 10/08		
		CHKD: DO	DATE: 10/22		
LOCATION: RUTLAND CITY, VERMONT		JOB NO.	DWG NO.		
PROJ NO. BRF 3000 (16)		597-1	<b>GN1</b>		
CUSTOMER: KUBRICKY CONSTRUCTION CORP.		REV.			

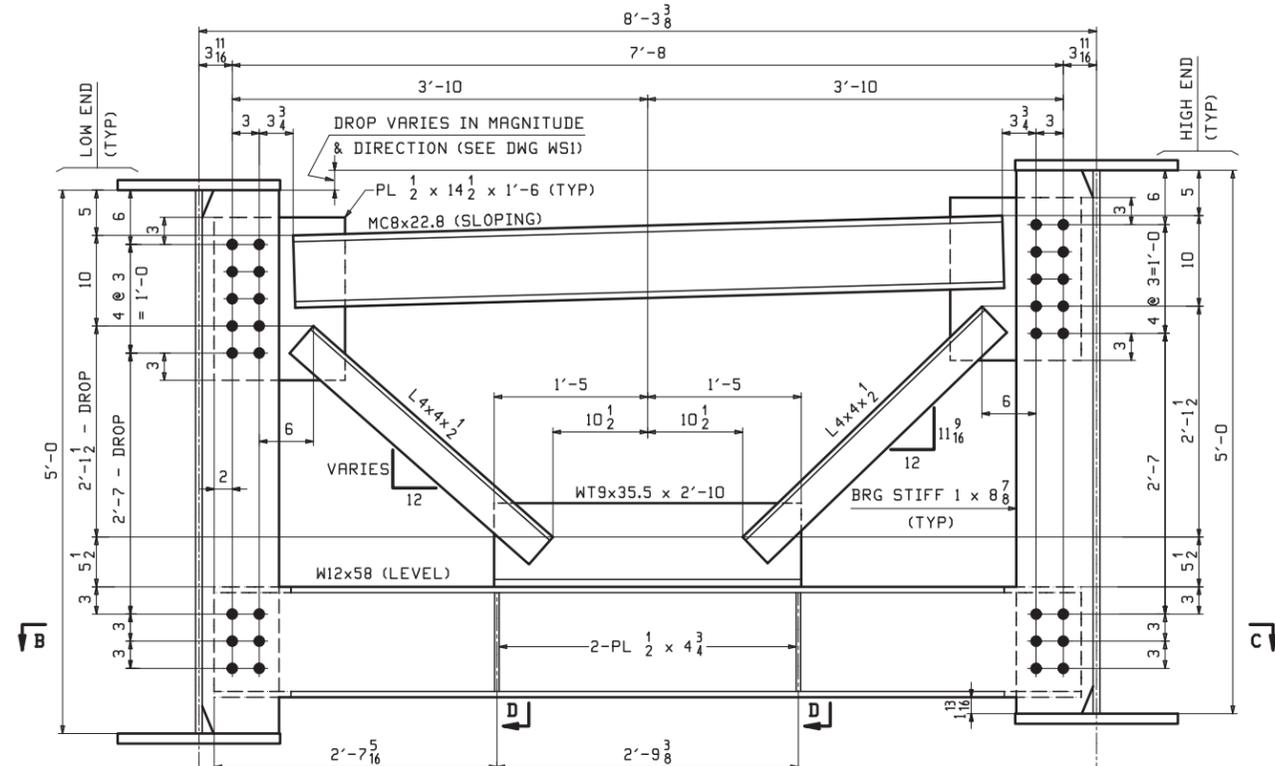


**INT. CROSSFRAMES**  
LOOKING UP-STATION  
72 REQ'D

APPROVER NOTE:  
BOLT SPACING MODIFIED TO ACCOMODATE  
SEALING REQUIREMENTS (TYP).

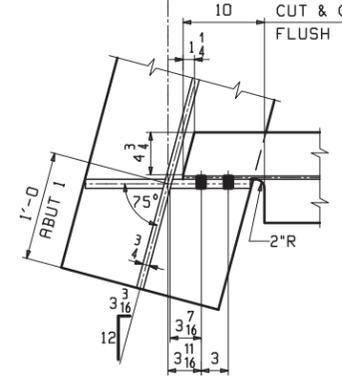


**SECTION A**

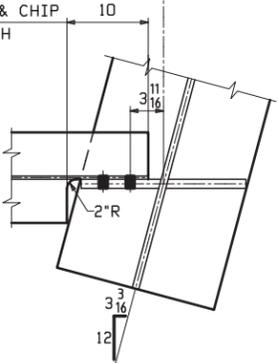


**ABUT. 1 CROSSFRAMES**  
LOOKING UP-STATION  
4 REQ'D

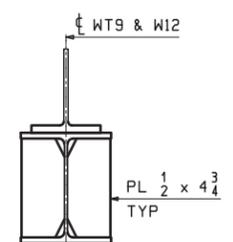
**PIER CROSSFRAMES**  
LOOKING BACK-STATION  
4 REQ'D



**SECTION B**



**SECTION C**



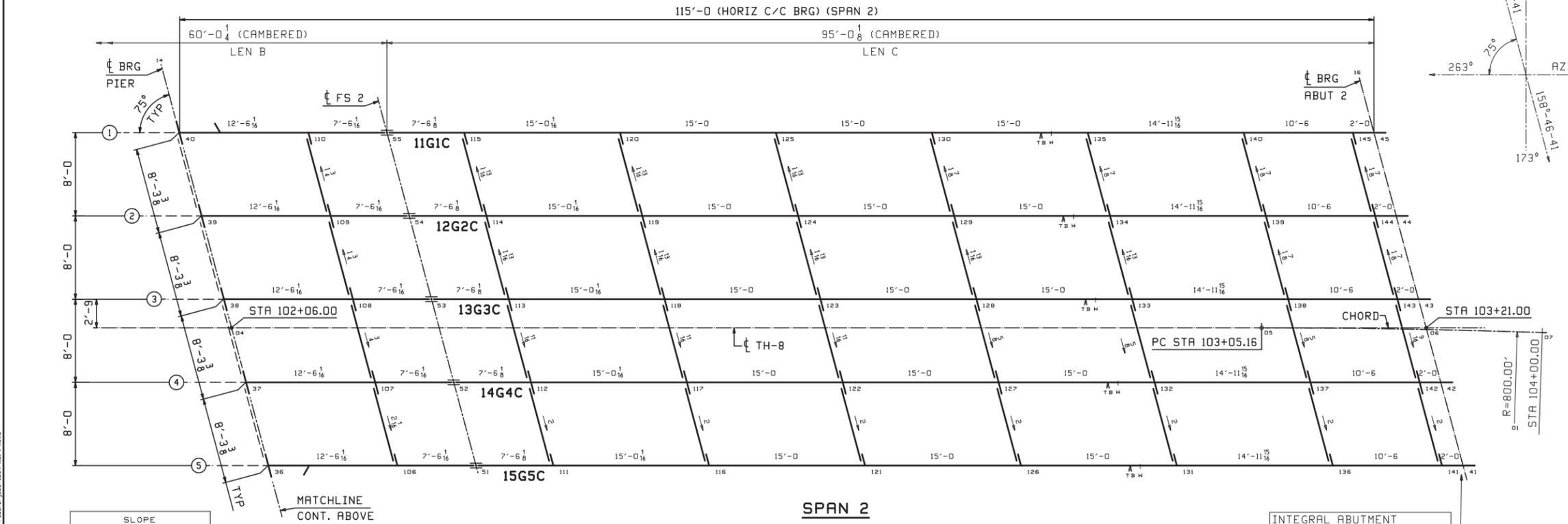
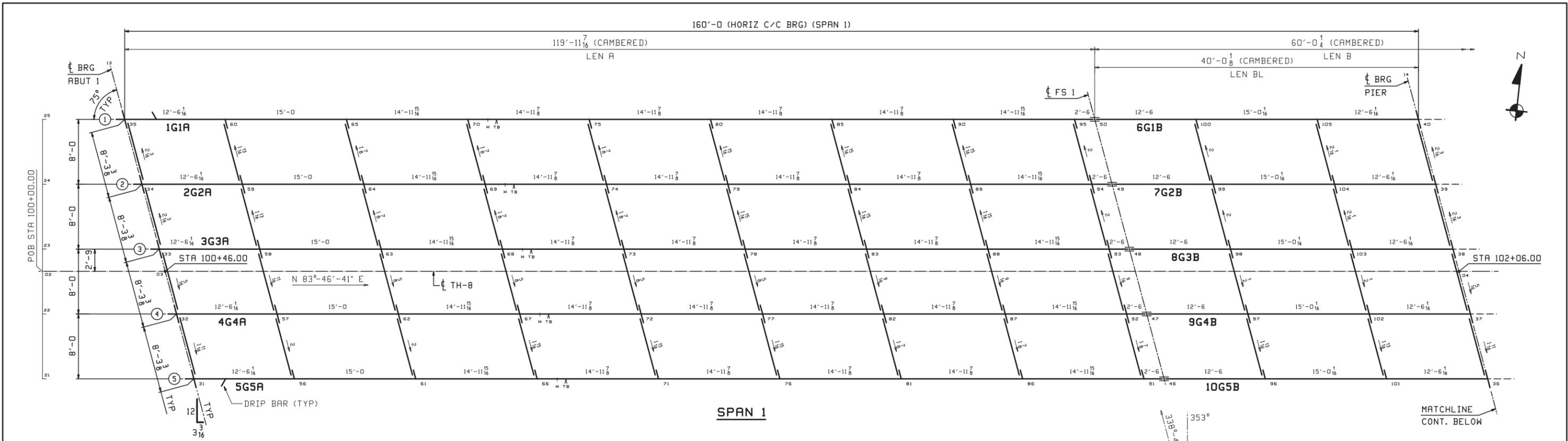
**SECTION D**  
DIAGONAL NOT SHOWN

- NOTES:
1. MATERIAL IS M270-50W (UN).
  2. ALL HOLES SHALL BE 15/16" (UN).
  3. BOLTS SHALL BE 7/8" A325 TYPE 3 IN UNPAINTED AREAS.
  4. BOLTS SHALL BE 7/8" A325-1 GALV. IN PAINTED AREAS (SEE GNI.)

**\*\* NOTE \*\***  
THE PURPOSE OF THIS DRAWING IS TO COORDINATE GEOMETRIC CONTROL INFORMATION AND CONNECTION SPACING. THIS DWG IS SUBMITTED FOR INFORMATION ONLY & IS NOT INTENDED FOR SHOP FABRICATION. DETAIL DWGS WILL SHOW ALL WELDING AND DIMENSIONS REQ'D FOR FABRICATION.

Vermont Agency of Transportation  
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Apr. 17, 2015  
RESUBMIT APPROVED ✓  
BY C. Carlson DATE 04-20-2015

REV.	DATE	REMARKS	DWN	CHK	APVL	SHOP
0						
MATERIAL:		SURFACE PREP. & PAINT:		HOLES:		SHOP BOLTS:
M270-50W		SEE DWG GNI		15/16" Ø		NONE
DESCRIPTION: TYPICAL LAYOUTS						
			<b>CASCO BAY STEEL STRUCTURES, INC.</b> 1 WALLACE AVE. SOUTH PORTLAND, ME 04106 PHONE (207) 780-6722 FAX. (207) 780-6726			
STRUCTURE: TH-8 (RIVER STREET) OVER OTTER CREEK BRIDGE NO: 2 (TH 8) RUTLAND CITY BRIDGE REPLACEMENT			DRAWN: JTB	DATE: 10/07		
			CHKD: RLA	DATE: 10/10		
LOCATION: RUTLAND CITY, VERMONT			JOB NO. 597-1		DWG NO. TD1	
PROJ NO. BRF 3000 (16)					REV. △	
CUSTOMER: KUBRICKY CONSTRUCTION CORP.						



**\*\* NOTE \*\***  
 THE PURPOSE OF THIS DRAWING IS TO COORDINATE GEOMETRIC CONTROL INFORMATION. THIS DWG IS SUBMITTED FOR INFORMATION ONLY AND IS NOT INTENDED FOR SHOP FABRICATION.

- CALCULATION PLAN NOTES:**
1. LONGITUDINAL DIMENSIONS ARE SLOPING ALONG BTM OF GIRDERS WITH CORRECTIONS MADE FOR DL CAMBER, V.C. & GRADE (UN).
  2. TRANSVERSE DIMENSIONS ARE IN A HORIZONTAL PLANE (UN).
  3. ARROW POINTS TOWARD LOW END OF MEMBER.
  4. ENDS OF GIRDERS ARE VERTICAL AFTER DL ROTATION.
  5. CROSSFRAME STIFFENERS ARE NORMAL TO GRADE.
  6. BOTTOM POINT NUMBERS = TOP POINT NUMBERS + 500
  7. COMBINE INT. CROSSFRAMES FOR DIFF IN DROPS OF +/- 3/16.
  8. FOR LAYOUTS SEE "TD" DRAWING.

REV.	DATE	REMARKS	DWN	CHK	APVL	SHOP
0						
MATERIAL:		SURFACE PREP. & PAINT:		HOLES:		SHOP BOLTS:
DESCRIPTION: CALCULATION PLAN						
		<b>CASCO BAY STEEL STRUCTURES, INC.</b> 1 WALLACE AVE. SOUTH PORTLAND, ME 04106 PHONE (207) 780-6722 FAX. (207) 780-6725				
STRUCTURE: TH-8 (RIVER STREET) OVER OTTER CREEK BRIDGE NO: 2 (TH 8) RUTLAND CITY BRIDGE REPLACEMENT				DRAWN: JTB CHKD: RLA	DATE: 10/07 DATE: 10/10	
LOCATION: RUTLAND CITY, VERMONT				JOB NO. 597-1		DWG NO. WS1
PROJ NO. BRF 3000 (16)				CUSTOMER: KUBRICKY CONSTRUCTION CORP.		REV. 1

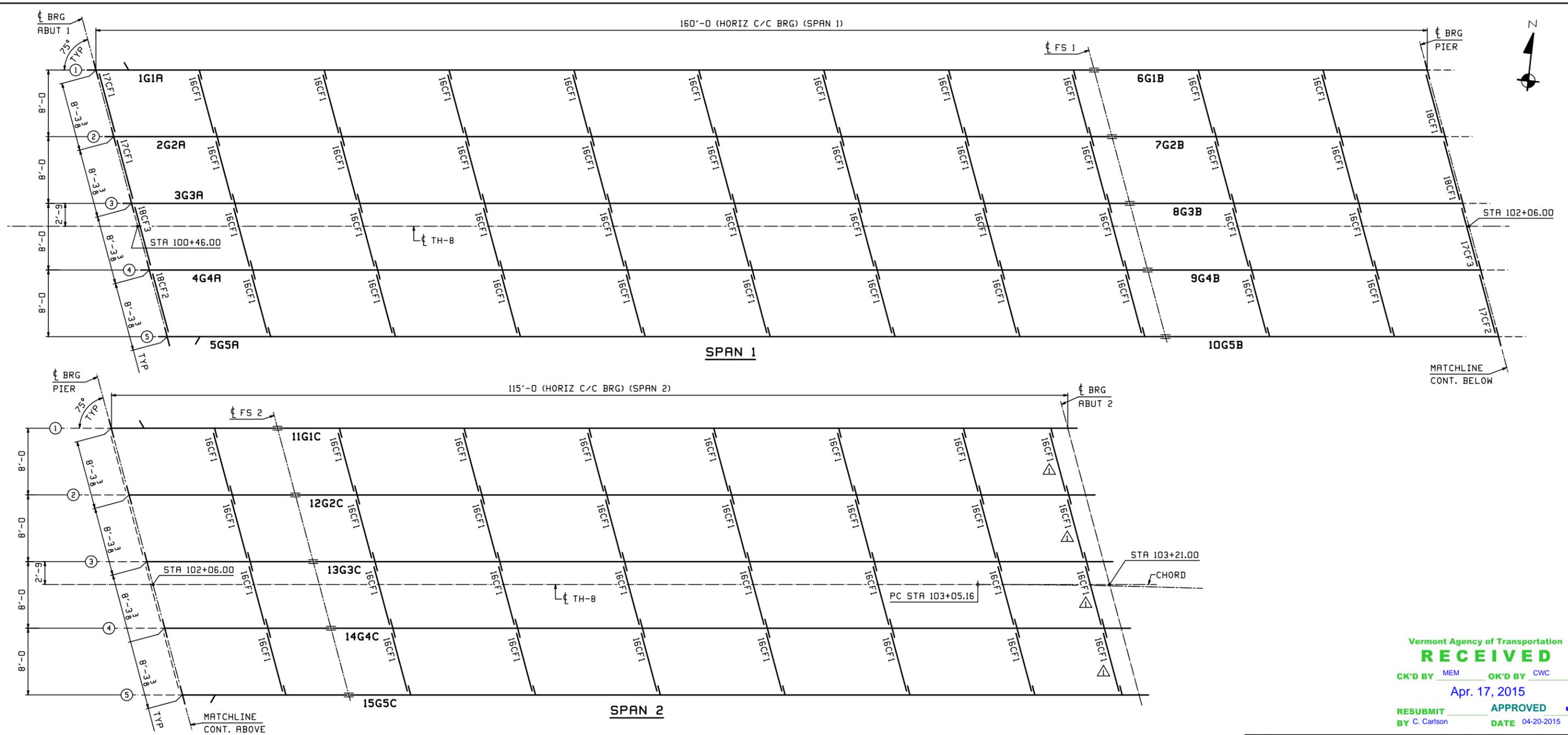
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1	0.0139	0.0103	0.0056
2	0.0139	0.0103	0.0056
3	0.0139	0.0103	0.0055
4	0.0139	0.0102	0.0054
5	0.0139	0.0102	0.0053

**CALCULATION PLAN**

Vermont Agency of Transportation  
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 Apr. 17, 2015  
 RESUBMIT APPROVED  
 BY C. Carlson DATE 04-20-2015

INTEGRAL ABUTMENT  
 REBAR HOLES & VENT HOLES  
 REQ'D AT END OF EACH LINE

17B Rev. Oct 13, 2014 09:39:38 AM /user/288/238/481/ Rev 0



Vermont Agency of Transportation  
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 Apr. 17, 2015  
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 BY C. Carlson DATE 04-20-2015

FIELD BOLT LIST		A325 Type 3 BOLTS						WASHER CODES	
LINE	NO. REQ'D.	BOLT DIAM.	BOLT LEN.	BOLTS /CONN.	# OF CONN.	GRIP	THICKNESS OF PCS. CONNECTED	WASHER CODE	PIECES CONNECTED AND REMARKS
<b>FIELD SPLICES 1 &amp; 2</b>									
1									
2	560	7/8	5 1/2	56	10	3 1/4	5/8 2 1/2 5/8		L1 TOP FLANGE SPLICE
3	1080	7/8	3	108	10	1 1/2	3/8 3/4 3/8		L1 WEB SPLICE
4	560	7/8	5 1/2	56	10	3 1/4	5/8 2 1/2 5/8		L1 BOTTOM FLANGE SPLICE
<b>PIER CROSSFRAMES</b>									
7	80	7/8	3	10	8	1 1/2	1/2 1		L1 TOP GUSSET TO BRG STIFFENER
8	48	7/8	3	6	8	1 1/8	3/8 1		L1 BTM STRUT WEB TO BRG STIFFENER
<b>INT. CROSSFRAMES</b>									
11	1152	7/8	2 1/2	4	288	1	1/2 1/2		L1 TOP & BTM GUSSET TO CONN. PLATE

FIELD BOLT LIST		A325 Type 1 BOLTS (GALV)						WASHER CODES	
LINE	NO. REQ'D.	BOLT DIAM.	BOLT LEN.	BOLTS /CONN.	# OF CONN.	GRIP	THICKNESS OF PCS. CONNECTED	WASHER CODE	PIECES CONNECTED AND REMARKS
<b>ABUT. 1 CROSSFRAMES</b>									
12									
13	80	7/8	3	10	8	1 1/2	1/2 1		L1 TOP GUSSET TO BRG STIFFENER
14	48	7/8	3	6	8	1 1/8	3/8 1		L1 BTM STRUT WEB TO BRG STIFFENER
15									
16									
17									

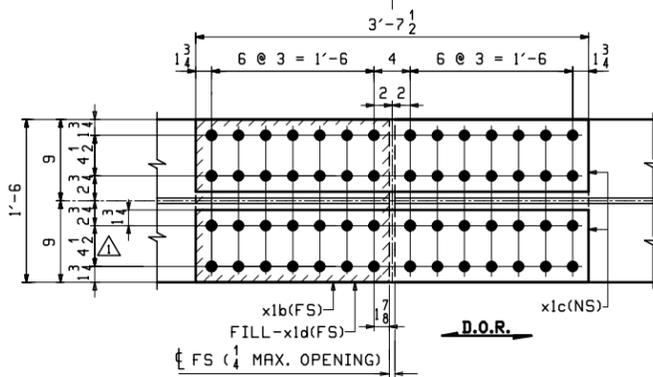
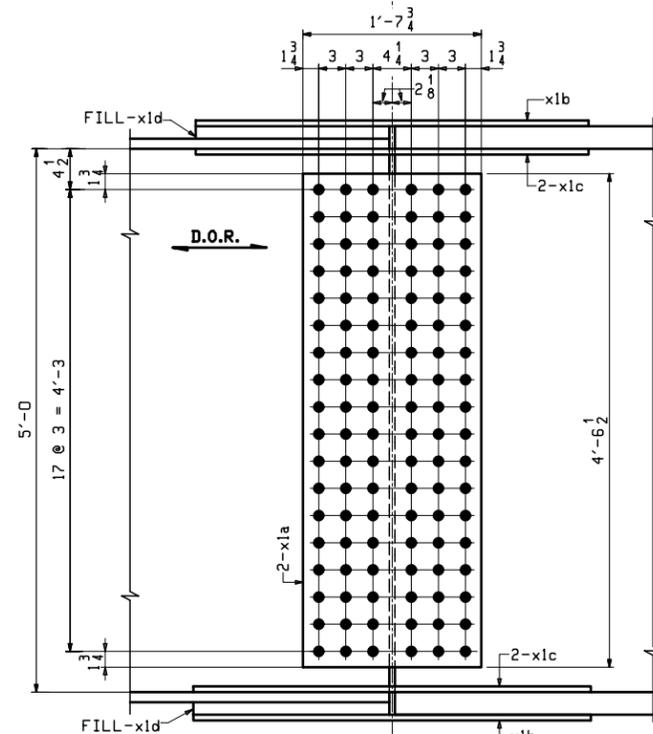
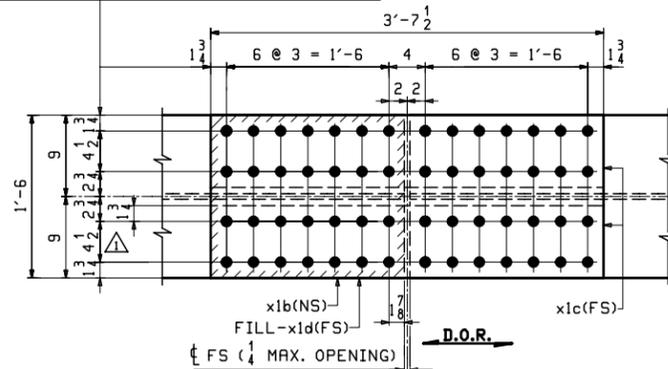
L1: 1 Flat, 1 Load Ind.  
 LIW @ head, hard wa. @ nut

FIELD BOLT SUMMARY		EXACT COUNT - NONE EXTRA				REMARKS
LINE	NO. OF BOLTS	BOLT DIAM.	TYPE	BOLT LEN	ACTUAL COUNT	
1	130	7/8	A325 Type 1	3	128	(GALVANIZED) ⚠
2						
3	130		Hard Flat Washers for 7/8" BOLT			F436-1 (GALVANIZED) ⚠
4	130		Load Ind. Washers for 7/8" BOLT			F959-1 (GALVANIZED) ⚠
5						
6						
7	1154	7/8	A325 Type 3	2 1/2	1152	⚠
8	1210	7/8		3	1208	
9	1122	7/8	A325 Type 3	5 1/4	1120	
10						
11	3486		Hard Flat Washers for 7/8" BOLT			F436-3 ⚠
12	3486		Load Ind. Washers for 7/8" BOLT			F959-3 ⚠
13						

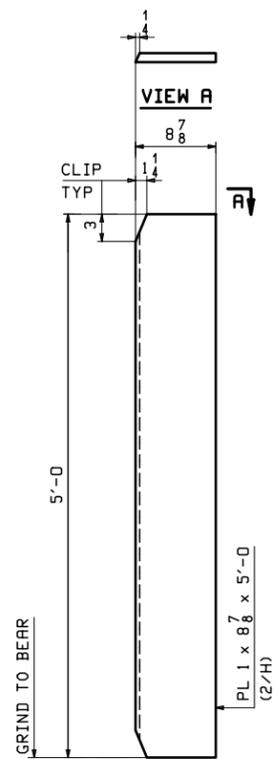
1/19/15	APPROVAL COMMENTS	JTB	WL
REV. DATE	REMARKS	DWN	CHK
		APVL	SHOP
MATERIAL:		SURFACE PREP. & PAINT:	
		HOLES:	
		SHOP BOLTS:	
DESCRIPTION: FRAMING PLAN & FIELD BOLTS			
		CASCO BAY STEEL STRUCTURES, INC. 1 WALLACE AVE. PHONE (207) 780-6722 SOUTH PORTLAND, ME 04106 FAX. (207) 780-6726 	
STRUCTURE: TH-8 (RIVER STREET) OVER OTTER CREEK BRIDGE NO: 2 (TH 8) RUTLAND CITY BRIDGE REPLACEMENT		DRAWN: JTB	DATE: 10/08
		CHKD: DO	DATE: 10/22
LOCATION: RUTLAND CITY, VERMONT		JOB NO. 597-1	DWG NO. E1
PROJ NO. BRF 3000 (16)			REV. ⚠
CUSTOMER: KUBRICKY CONSTRUCTION CORP.			

178 Mon Jan 19 2016 10:27:52 AM C:\Users\jrb\Documents\2015\16\1\Rev1

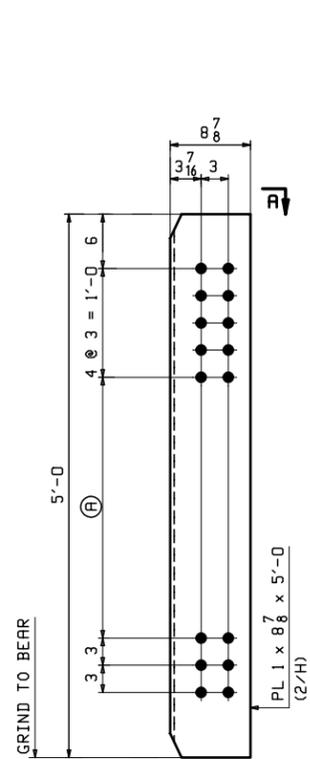
APPROVED: 1/13/15  
SPACING MODIFIED TO ALLOW FOR  
MINIMUM PREFERRED EDGE DISTANCE (TYP).



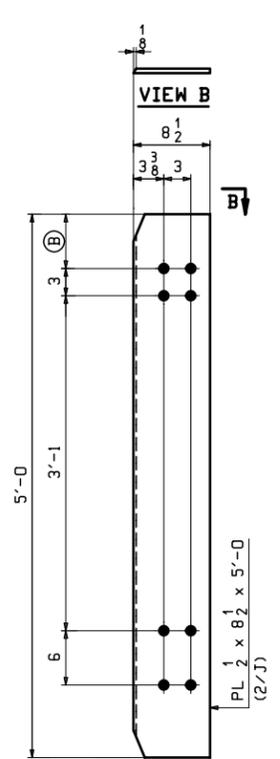
**FIELD SPLICE DETAIL ~ XIM1**  
FIELD SPLICES 1 - AS SHOWN  
FIELD SPLICES 2 - ROTATE 180°



**4 ~ xlf**  
ABUT/PIER BRG STIFFENER  
(FASCIA SIDE)



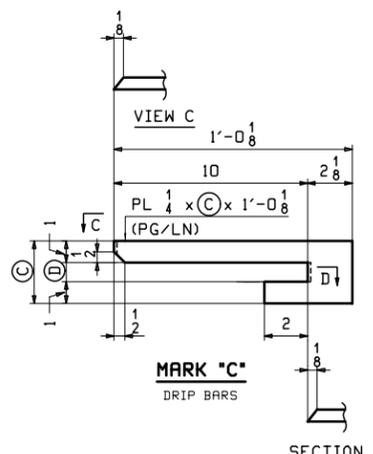
**MARK "A"**  
ABUT/PIER BRG STIFFENER  
(CF CONN)



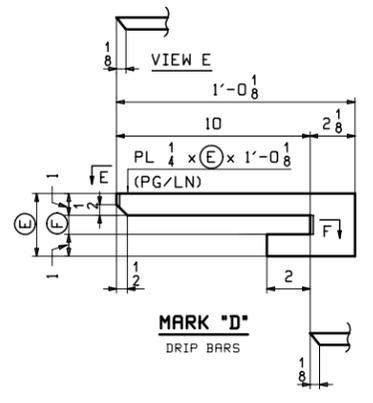
**MARK "B"**  
INT. CF CONN.

MARK "A"	QTY	(A)	
xlg	4	2'-4 13/16	DROP 2 3/8
xlk	2	2'-5 5/16	DROP 1 11/16
xlm	2	2'-6 11/16	DROP 5/16
xln	8	2'-7	HIGH END

MARK "B"	QTY	(B)	
xlp	72	6	LOW END
xlt	18	6 5/8	DROPS 1/2 TO 3/4
xlv	54	7 7/8	DROPS 1 1/4 TO 2 1/4



**MARK "C"**  
DRIP BARS



**MARK "D"**  
DRIP BARS

MARK "C"	QTY	(C)	(D)	PG/LN	
xlw	1	3 3/8	1 3/8	2/K	ABUT 1
xly	1	4 9/16	2 9/16	2/L	PIER

MARK "D"	QTY	(E)	(F)	PG/LN	
xlaa	1	3 3/8	1 3/8	2/K	ABUT 1
xlab	1	4 9/16	2 9/16	2/L	PIER

Vermont Agency of Transportation  
**RECEIVED**  
APR 17 2015  
RESUBMIT BY C. Carlson  
APPROVED DATE 04-20-2015

ABM INFO		BILL OF MATERIAL				JOB NO.	DRAWING NO.	REV.	
PAGE	LINE	MARK	QTY	MARK	MATERIAL	LENGTH FT INCHES	REMARKS	WT	PROCUREMENT NOTES
		XIMI	10		FIELD SPLICES				
2	B		20	x1a	PL 3/8 x 5 1/2	1 7/4	M270-50WT2	114	
2	C		20	x1b	PL 5/8 x 18	3 7/2	M270-50WT2	139	
2	D		40	x1c	PL 5/8 x 8	3 7/2	M270-50WT2	62	
2	E		20	x1d	PL 1 3/8 x 18	1 9/8	FILL M270-50WT2	152	

NOTE:  
MATERIAL FOR FIELD SPLICE BILLED HERE ONLY.  
ALL OTHER MATERIAL BILLED ON DETAIL DRAWINGS.

- NOTES:
- FOR GENERAL NOTES SEE DRAWING GNI.
  - HOLES IN SPLICE PLATES ARE PRE-DRILLED. ENDS OF GIRDERS ARE DRILLED FROM SOLID USING SPLICE PLATES AS A TEMPLATE.
  - D.O.R.** DENOTES DIRECTION OF MILL ROLLING
  - T2 DENOTES CHARPY V-NOTCH TESTING REQUIRED.

REV.	DATE	REMARKS	DWN	CHK	APVL	SHOP
1/19/15		APPROVAL COMMENTS	JTB	WL		
0						

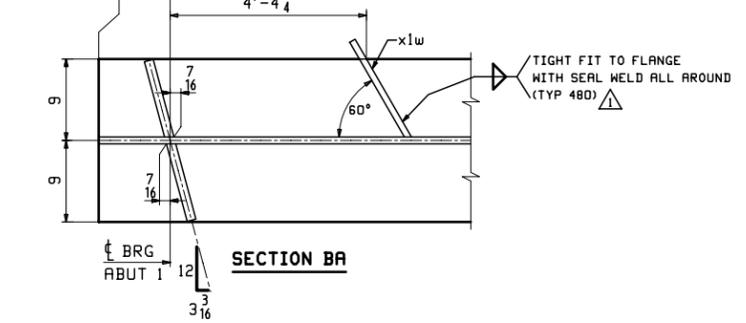
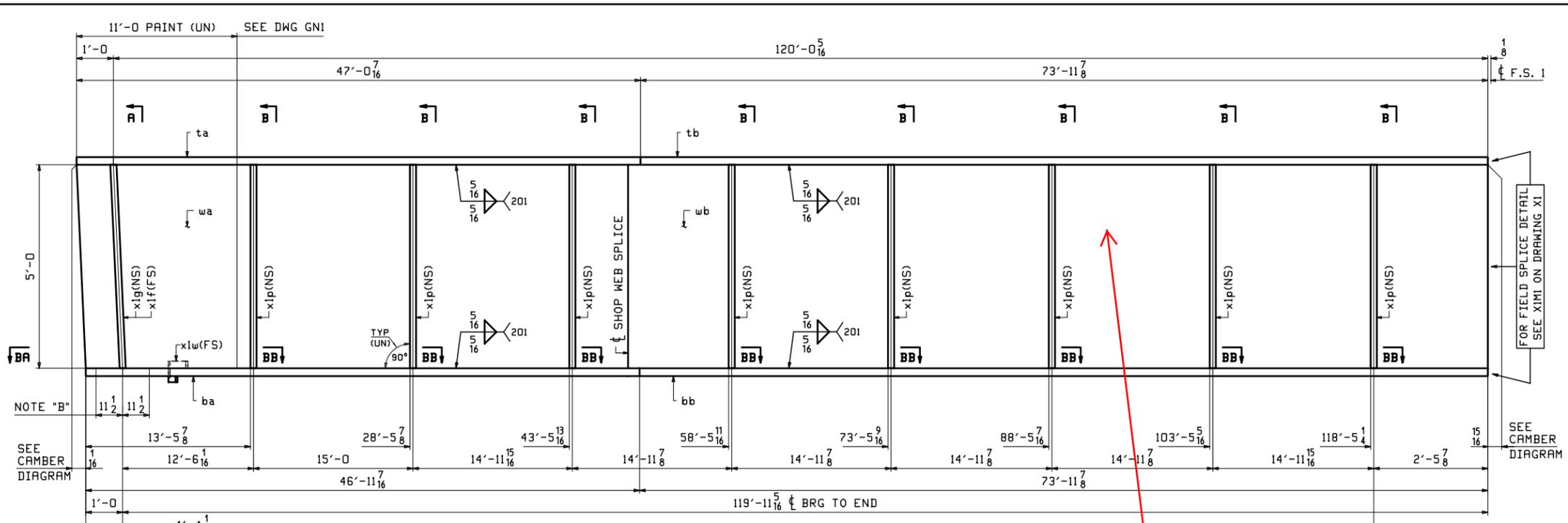
DESCRIPTION: GIRDER STANDARD DETAILS

CASCO BAY STEEL STRUCTURES, INC.  
1 WALLACE AVE. SOUTH PORTLAND, ME 04106  
PHONE (207) 780-6722  
FAX. (207) 780-6726

STRUCTURE: TH-8 (RIVER STREET) OVER OTTER CREEK  
BRIDGE NO: 2 (TH 8)  
RUTLAND CITY BRIDGE REPLACEMENT

LOCATION: RUTLAND CITY, VERMONT  
PROJ NO. BRF 3000 (16)  
CUSTOMER: KUBRICKY CONSTRUCTION CORP.

DRAWN: JTB  
DATE: 10/08  
CHKD: DO  
DATE: 10/22  
JOB NO. 597-1  
DWG NO. X1  
REV. 1

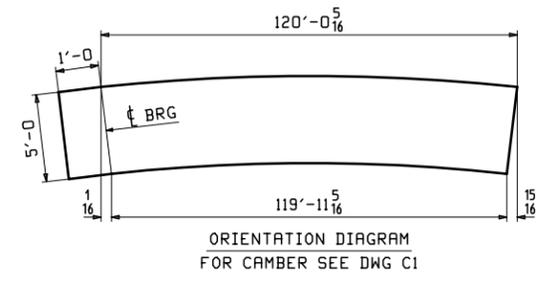
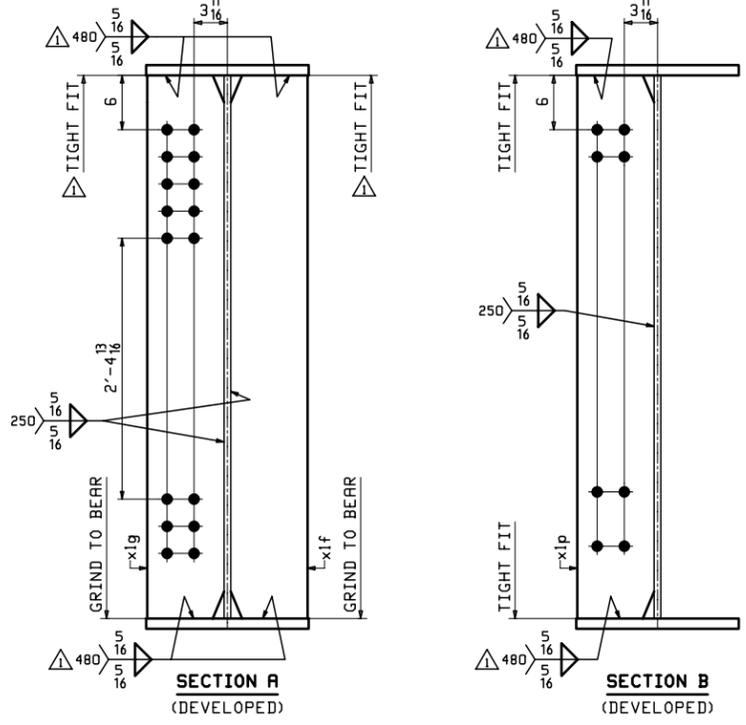
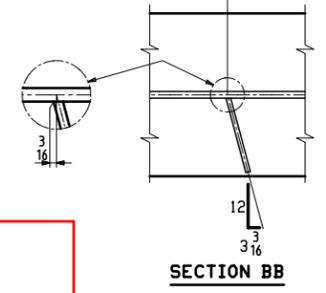


**ONE - GIRDER - 1G1A**

FOR GIRDER STANDARD DETAILS SEE DRAWING XI.  
 FOR CAMBER & FLANGE DIAGRAMS SEE DRAWING C1.  
 FOR GENERAL NOTES SEE DRAWING GNI.  
 T2 DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.

NOTE "B"  
 RUST PROTECTIVE PRIMER AREA ALONG BOTTOM FLANGE.  
 (FIELD WELDED SOLE PLATE) (SEE SECTION P ON GNI).

hole size and spacing for attaching 6" force main sewer line, invert to be 3'-2" above bottom of web



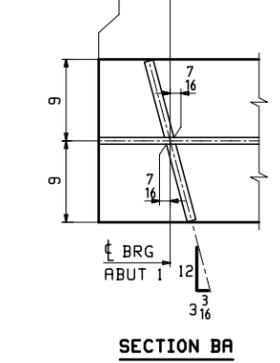
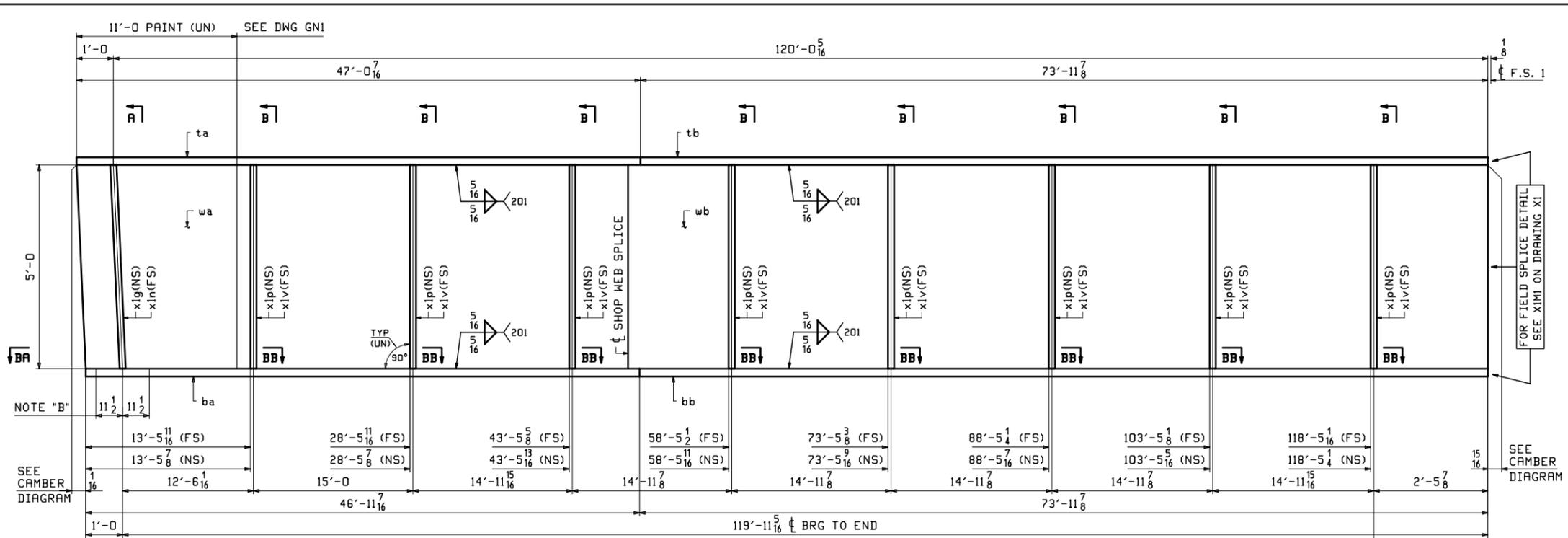
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PAGE	LINE	MARK	QTY	MARK	MATERIAL	LENGTH FT INCHES	REMARKS	WT PROCUREMENT NOTES
		IG1A	1		GIRDER			36096
1	Q	1	wa	PL	3/4 x 60	46 0 1/8	M270-50WT2	7045
1	L	1	wb	PL	3/4 x 60	75 0 13/16	M270-50WT2	1495
1	G	1	ta	PL	1/8 x 18	47 0 7/16	M270-50WT2	3241
1	C	1	tb	PL	1/8 x 18	73 11 7/8	M270-50WT2	5098
1	G	1	ba	PL	1/8 x 18	46 11 7/8	M270-50WT2	3235
1	C	1	bb	PL	1/8 x 18	73 11 7/8	M270-50WT2	5098
2	H	1	x1f	PL	1 x 8 7/8	5 0	MIE	151
2	H	1	x1g	PL	1 x 8 7/8	5 0	MIE	151
2	J	8	x1p	PL	1/2 x 8 1/2	5 0		72
2	K	1	x1w	PL	1/4 x 3 1/4	1 0 1/8		3

Vermont Agency of Transportation  
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CK'D BY MEM OK'D BY CWC  
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 BY C. Carlson DATE 04-20-2015

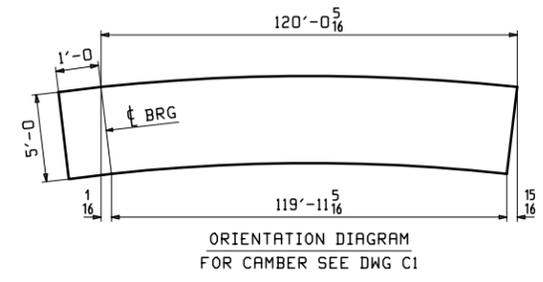
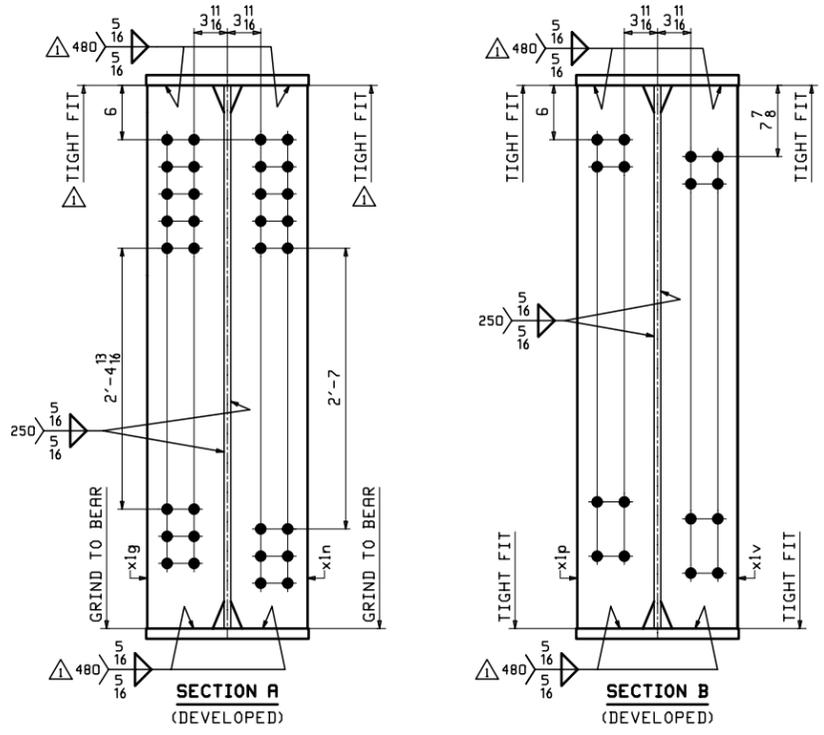
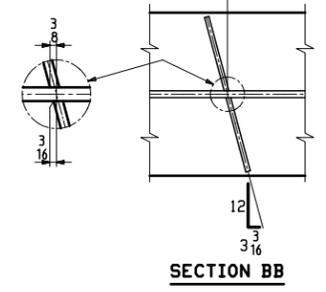
1/19/15	APPROVAL COMMENTS	JTB	WL
REV. DATE	REMARKS	DWN	CHK
MATERIAL: M270-50W (UN)	SURFACE PREP. & PAINT: SEE DWG GNI	HOLE: 15 1/16 Ø	SHOP BOLTS: NONE
DESCRIPTION: GIRDER - 1G1A			
CASCO BAY STEEL STRUCTURES, INC. 1 WALLACE AVE. SOUTH PORTLAND, ME 04106		PHONE (207) 780-6722 FAX. (207) 780-6726	
STRUCTURE: TH-8 (RIVER STREET) OVER OTTER CREEK BRIDGE NO: 2 (TH 8) RUTLAND CITY BRIDGE REPLACEMENT	DRAWN: JTB	DATE: 10/08	
	CHKD: DO	DATE: 10/22	
LOCATION: RUTLAND CITY, VERMONT	JOB NO. 597-1	DWG NO. 1	
PROJ NO. BRF 3000 (16)		REV. 1	
CUSTOMER: KUBRICKY CONSTRUCTION CORP.			



**ONE - GIRDER - 2G2A**

FOR GIRDER STANDARD DETAILS SEE DRAWING XI.  
 FOR CAMBER & FLANGE DIAGRAMS SEE DRAWING C1.  
 FOR GENERAL NOTES SEE DRAWING GNI.  
 T2 DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.

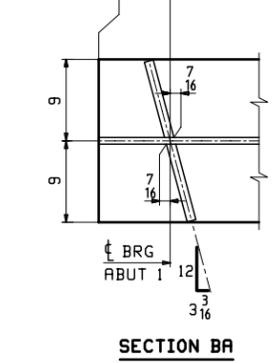
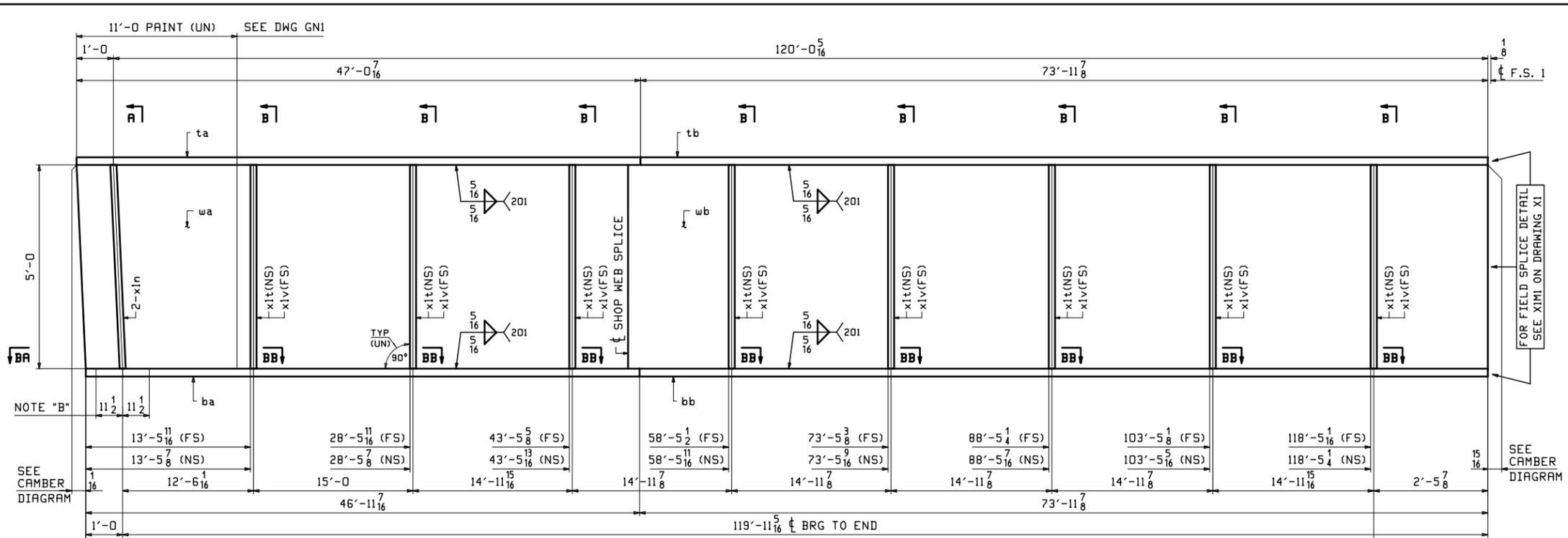
NOTE "B"  
 RUST PROTECTIVE PRIMER AREA ALONG BOTTOM FLANGE.  
 (FIELD WELDED SOLE PLATE) (SEE SECTION P ON GNI).



ABM INFO		BILL OF MATERIAL				JOB NO.	DRAWING NO.	REV.	
PAGE	LINE	MARK	QTY	MARK	MATERIAL	LENGTH FT INCHES	REMARKS	WT	PROCUREMENT NOTES
		2G2A	1		GIRDER			36672	
1	Q		1	wa	PL 3/4 x 60	46 0 1/8	M270-50WT2	7045	
1	L		1	wb	PL 3/4 x 60	75 0 13/16	M270-50WT2	1495	
1	G		1	ta	PL 1/8 x 18	47 0 7/16	M270-50WT2	3241	
1	C		1	tb	PL 1/8 x 18	73 11 7/8	M270-50WT2	5098	
1	G		1	ba	PL 1/8 x 18	46 11 7/16	M270-50WT2	3235	
1	C		1	bb	PL 1/8 x 18	73 11 7/8	M270-50WT2	5098	
2	H		1	xlg	PL 1 x 8 7/8	5 0	MIE	151	
2	H		1	xln	PL 1 x 8 7/8	5 0	MIE	151	
2	J		8	xlp	PL 1/2 x 8 1/2	5 0		72	
2	J		8	xlv	PL 1/2 x 8 1/2	5 0		72	

Vermont Agency of Transportation  
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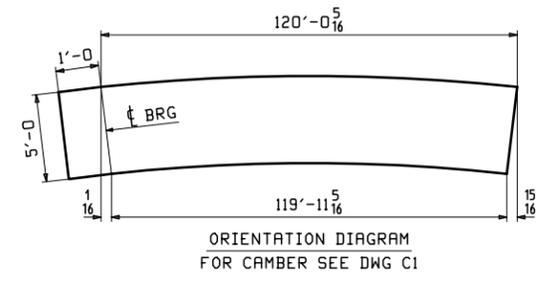
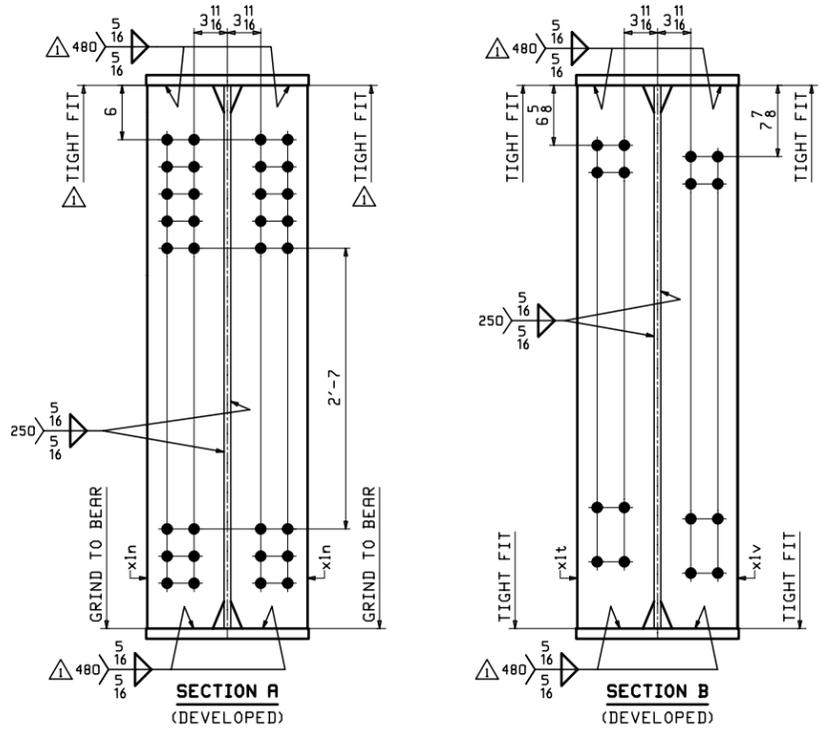
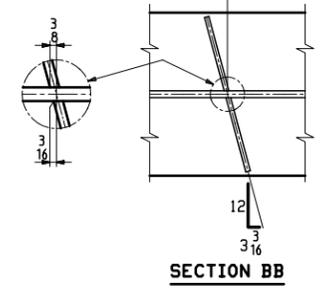
1/19/15	APPROVAL COMMENTS	JTB	WL			
REV.	DATE	REMARKS	DWN	CHK	APVL	SHOP
		MATERIAL: M270-50W (UN)				SHOP BOLTS: NONE
		SURFACE PREP. & PAINT: SEE DWG GNI				
		HOLES: 15/16" Ø				
DESCRIPTION: GIRDER - 2G2A						
		CASCO BAY STEEL STRUCTURES, INC. 1 WALLACE AVE. PHONE (207) 780-6722 SOUTH PORTLAND, ME 04106 FAX. (207) 780-6726 				
STRUCTURE: TH-8 (RIVER STREET) OVER OTTER CREEK		DRAWN: JTB		DATE: 10/09		
BRIDGE NO: 2 (TH 8)		CHKD: DO		DATE: 10/22		
LOCATION: RUTLAND CITY, VERMONT		JOB NO. 597-1		DWG NO. 2		
PROJ NO. BRF 3000 (16)		CUSTOMER: KUBRICKY CONSTRUCTION CORP.		REV. 2		



**ONE - GIRDER - 3G3A**

FOR GIRDER STANDARD DETAILS SEE DRAWING XI.  
 FOR CAMBER & FLANGE DIAGRAMS SEE DRAWING C1.  
 FOR GENERAL NOTES SEE DRAWING GNI.  
 T2 DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.

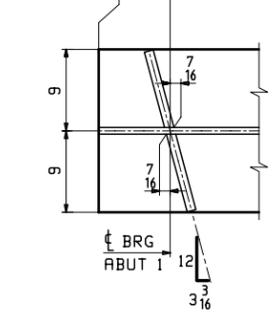
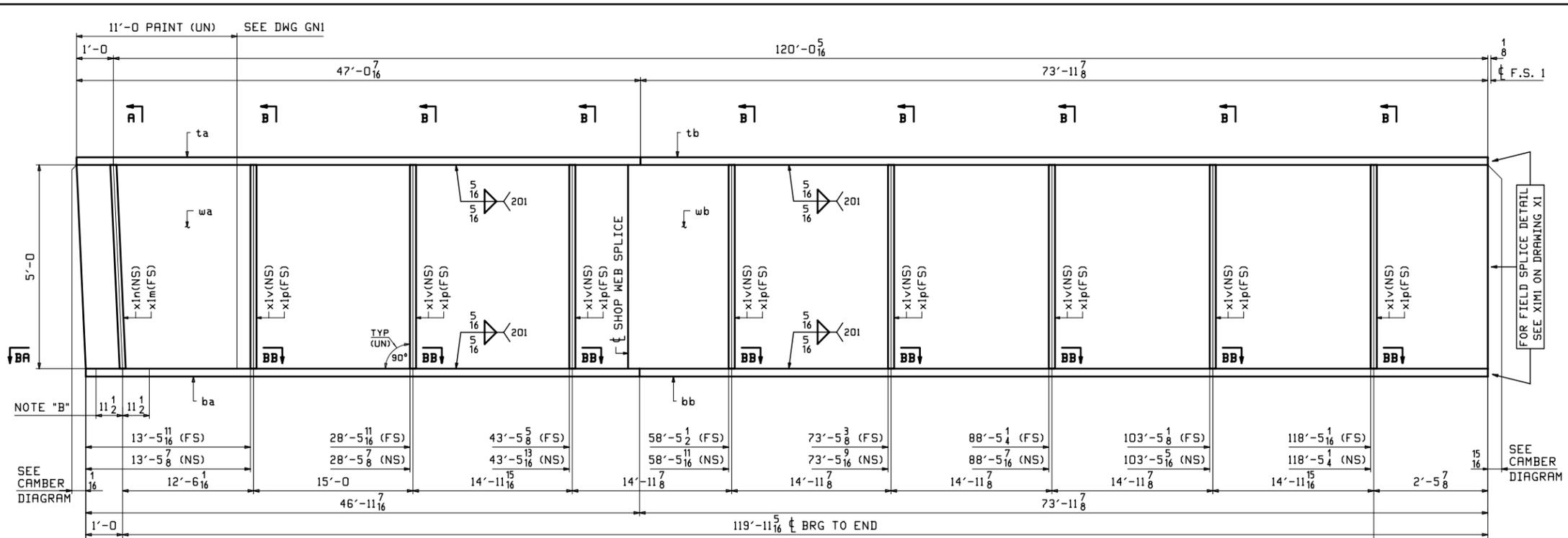
NOTE "B"  
 RUST PROTECTIVE PRIMER AREA ALONG BOTTOM FLANGE.  
 (FIELD WELDED SOLE PLATE) (SEE SECTION P ON GNI).



ABM INFO		BILL OF MATERIAL				JOB NO.	DRAWING NO.	REV.
PAGE	LINE	MARK	QTY	MARK	MATERIAL	REMARKS	WT	PROCUREMENT NOTES
		3G3A	1		GIRDER		36672	
1	Q		1	wa	PL 3/4 x 60	M270-50WT2	7045	
1	L		1	wb	PL 3/4 x 60	M270-50WT2	1495	
1	G		1	ta	PL 1/8 x 18	M270-50WT2	3241	
1	C		1	tb	PL 1/8 x 18	M270-50WT2	5098	
1	G		1	ba	PL 1/8 x 18	M270-50WT2	3235	
1	C		1	bb	PL 1/8 x 18	M270-50WT2	5098	
2	H		2	xln	PL 1 x 8 7/8	MIE	151	
2	J		8	xlt	PL 2 x 8 1/2		72	
2	J		8	xlv	PL 2 x 8 1/2		72	

Vermont Agency of Transportation  
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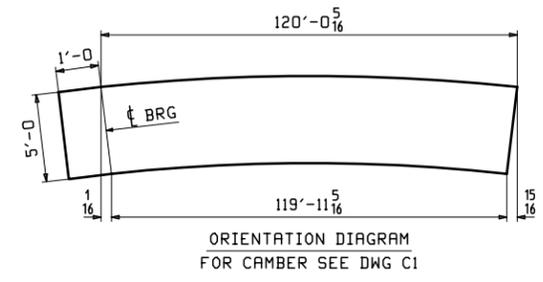
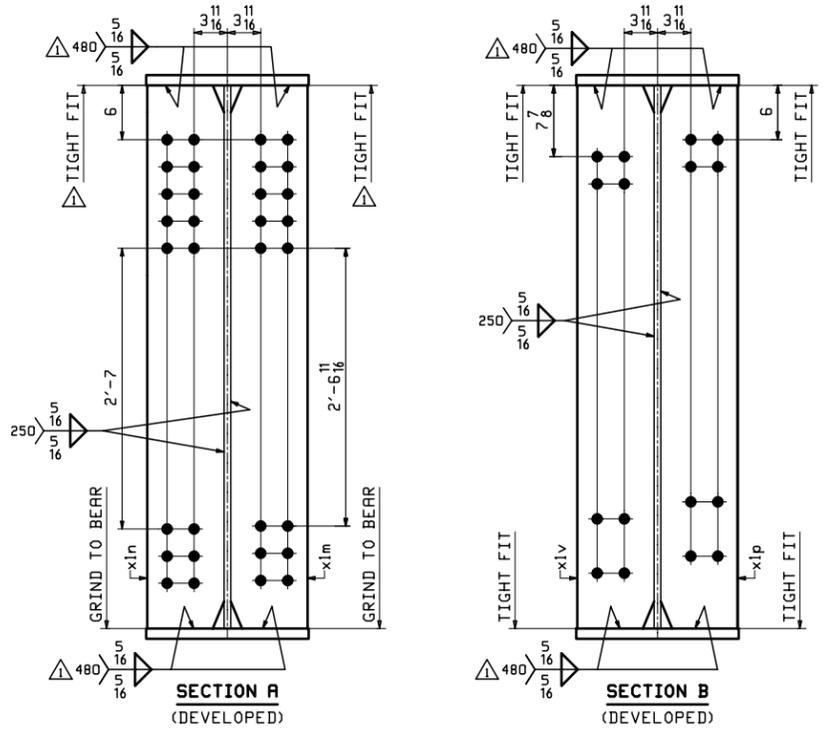
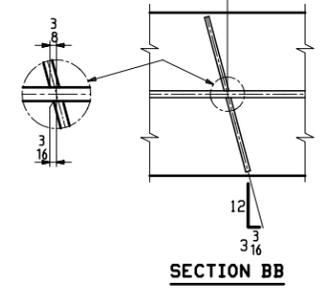
1/19/15	APPROVAL COMMENTS	JTB	WL				
REV.	DATE	REMARKS	DWN	CHK	APVL	SHOP	
MATERIAL:	M270-50W (UN)	SURFACE PREP. & PAINT:	SEE DWG GNI	HOLES:	15/16" Ø	SHOP BOLTS:	NONE
DESCRIPTION:	GIRDER - 3G3A						
		CASCO BAY STEEL STRUCTURES, INC. 1 WALLACE AVE. SOUTH PORTLAND, ME 04106 PHONE (207) 780-6722 FAX. (207) 780-6726					
STRUCTURE:	TH-8 (RIVER STREET) OVER OTTER CREEK BRIDGE NO: 2 (TH 8) RUTLAND CITY BRIDGE REPLACEMENT	DRAWN:	JTB	DATE:	10/09		
LOCATION:	RUTLAND CITY, VERMONT	CHKD:	DO	DATE:	10/22		
PROJ NO.	BRF 3000 (16)	JOB NO.	597-1	DWG NO.	3		
CUSTOMER:	KUBRICKY CONSTRUCTION CORP.	REV.					



**ONE - GIRDER - 4G4A**

FOR GIRDER STANDARD DETAILS SEE DRAWING XI.  
 FOR CAMBER & FLANGE DIAGRAMS SEE DRAWING C1.  
 FOR GENERAL NOTES SEE DRAWING GNI.  
 T2 DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.

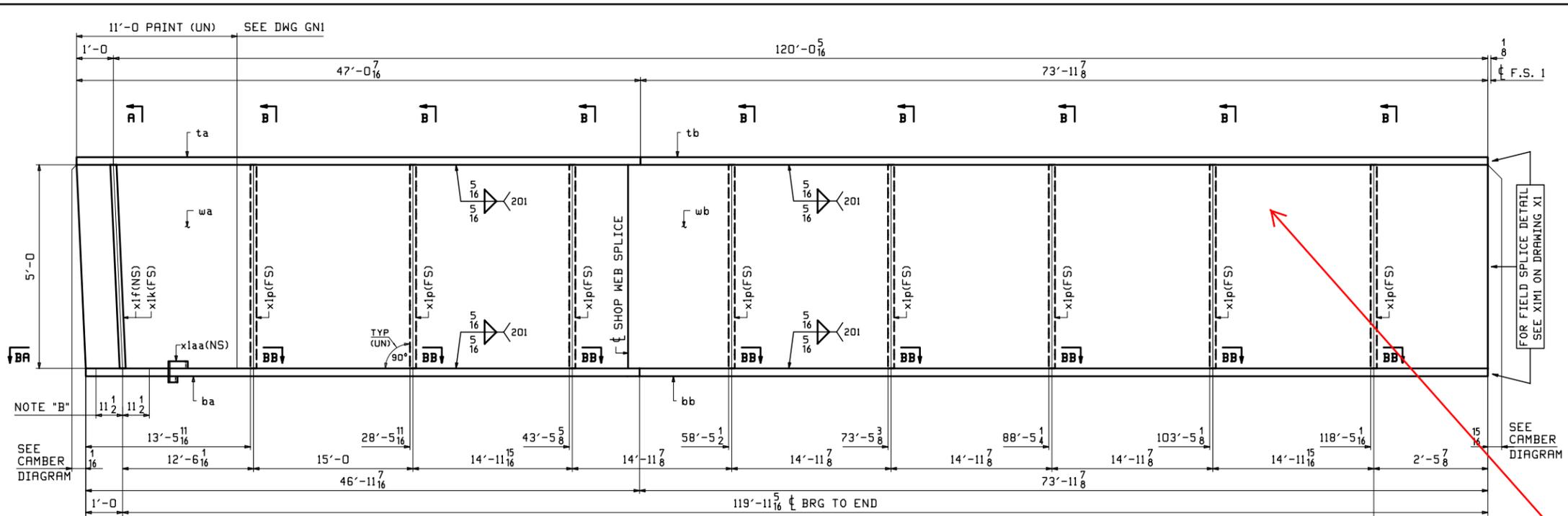
NOTE "B"  
 RUST PROTECTIVE PRIMER AREA ALONG BOTTOM FLANGE.  
 (FIELD WELDED SOLE PLATE) (SEE SECTION P ON GNI).



ABM INFO		BILL OF MATERIAL				JOB NO.	DRAWING NO.	REV.	
PAGE	LINE	MARK	QTY	MARK	MATERIAL	LENGTH FT INCHES	REMARKS	WT	PROCUREMENT NOTES
		4G4A	1		GIRDER			36672	
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1	L		1	wb	PL 3/4 x 60	75 0 13/16	M270-50WT2	1495	
1	G		1	ta	PL 1/8 x 18	47 0 7/16	M270-50WT2	3241	
1	C		1	tb	PL 1/8 x 18	73 11 7/8	M270-50WT2	5098	
1	G		1	ba	PL 1/8 x 18	46 11 7/16	M270-50WT2	3235	
1	C		1	bb	PL 1/8 x 18	73 11 7/8	M270-50WT2	5098	
2	H		1	x1m	PL 1 x 8 7/8	5 0	MIE	151	
2	H		1	x1n	PL 1 x 8 7/8	5 0	MIE	151	
2	J		8	x1p	PL 1/2 x 8 1/2	5 0		72	
2	J		8	x1v	PL 1/2 x 8 1/2	5 0		72	

Vermont Agency of Transportation  
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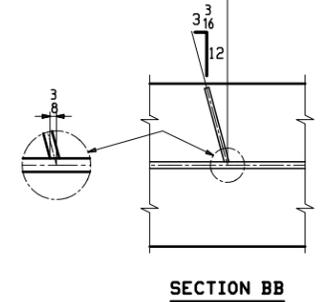
1/19/15	APPROVAL COMMENTS	JTB	WL			
REV.	DATE	REMARKS	DWN	CHK	APVL	SHOP
		MATERIAL: M270-50W (UN)				SHOP BOLTS: NONE
		SURFACE PREP. & PAINT: SEE DWG GNI				
		HOLES: 15 1/16 Ø				
DESCRIPTION: GIRDER - 4G4A						
		CASCO BAY STEEL STRUCTURES, INC. 1 WALLACE AVE. PHONE (207) 780-6722 SOUTH PORTLAND, ME 04106 FAX. (207) 780-6726 				
STRUCTURE: TH-8 (RIVER STREET) OVER OTTER CREEK BRIDGE NO: 2 (TH 8) RUTLAND CITY BRIDGE REPLACEMENT		DRAWN: JTB		DATE: 10/09		
		CHKD: DO		DATE: 10/22		
LOCATION: RUTLAND CITY, VERMONT		JOB NO. 597-1		DWG NO. 4		
PROJ NO. BRF 3000 (16)				REV. △		
CUSTOMER: KUBRICKY CONSTRUCTION CORP.						



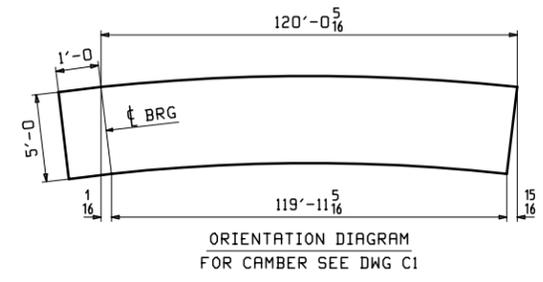
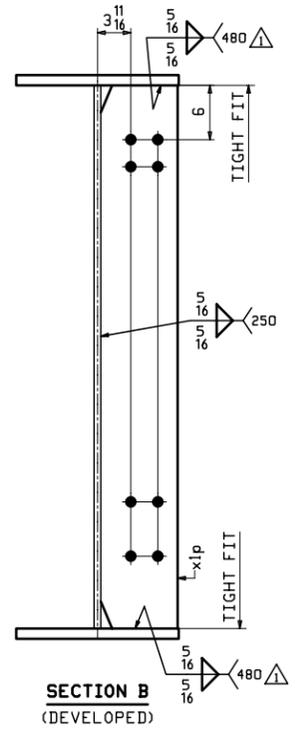
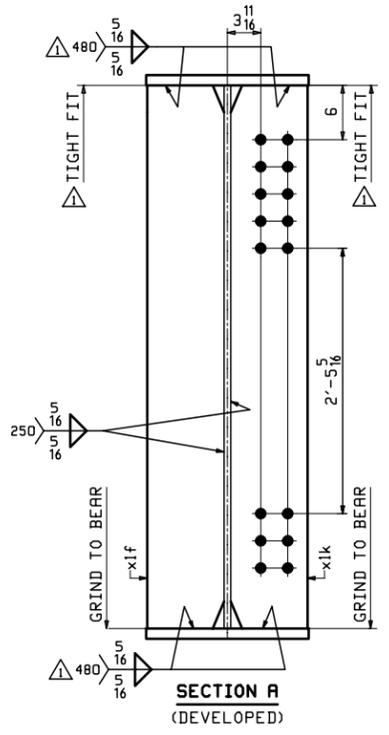
**ONE - GIRDER - 5G5A**

FOR GIRDER STANDARD DETAILS SEE DRAWING XI.  
 FOR CAMBER & FLANGE DIAGRAMS SEE DRAWING C1.  
 FOR GENERAL NOTES SEE DRAWING GNI.  
 T2 DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.

**NOTE "B"**  
 RUST PROTECTIVE PRIMER AREA ALONG BOTTOM FLANGE.  
 (FIELD WELDED SOLE PLATE) (SEE SECTION P ON GNI).



hole size and spacing for attaching 10" water line, invert to be 3'-2" above bottom of web



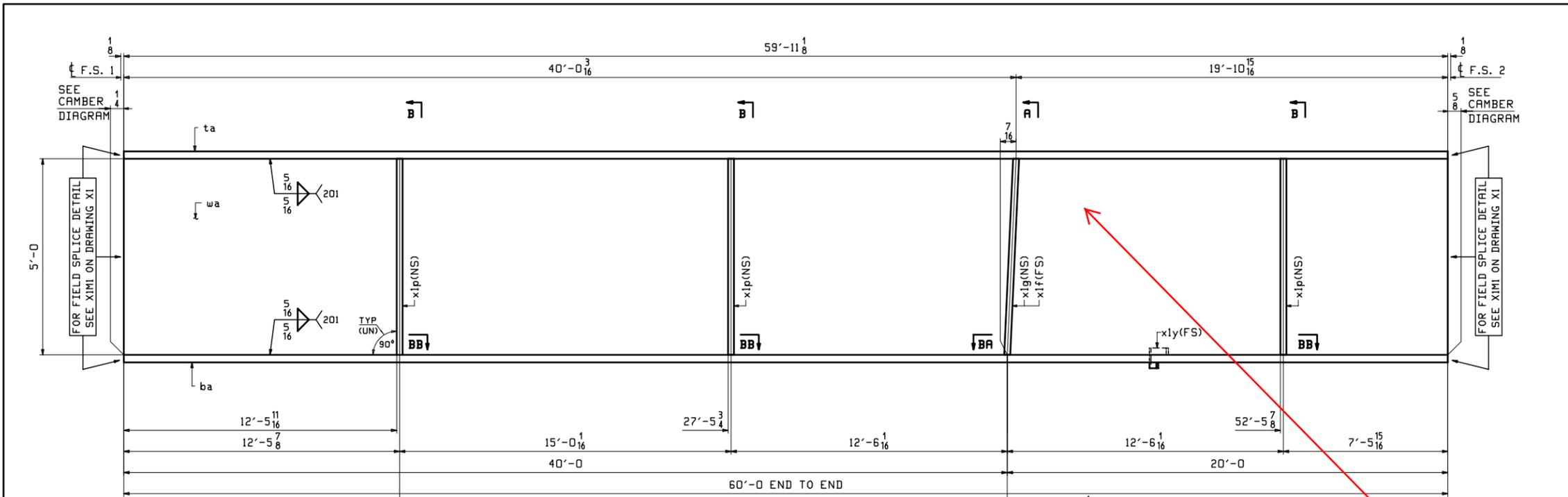
ABM INFO		BILL OF MATERIAL				JOB NO.	DRAWING NO.	REV.
PAGE	LINE	MARK	QTY	MARK	MATERIAL	REMARKS	WT	PROCUREMENT NOTES
		5G5A	1		GIRDER		36096	
1	Q	1	wa	PL	3/4 x 60	M270-50WT2	7045	
1	L	1	wb	PL	3/4 x 60	M270-50WT2	1495	
1	G	1	ta	PL	1/8 x 18	M270-50WT2	3241	
1	C	1	tb	PL	1/8 x 18	M270-50WT2	5098	
1	G	1	ba	PL	1/8 x 18	M270-50WT2	3235	
1	C	1	bb	PL	1/8 x 18	M270-50WT2	5098	
2	H	1	xlf	PL	1 x 8 7/8	MIE	151	
2	H	1	xlk	PL	1 x 8 7/8	MIE	151	
2	J	8	xlp	PL	1/2 x 8 1/2		72	
2	K	1	xlaa	PL	1/4 x 3 1/8		3	

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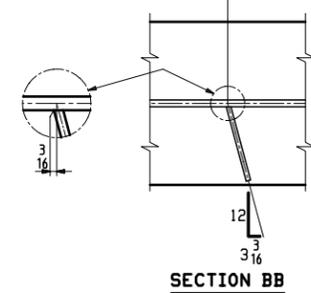
CK'D BY MEM OK'D BY CWC  
 Apr. 17, 2015

RESUBMIT APPROVED AS NOTED  
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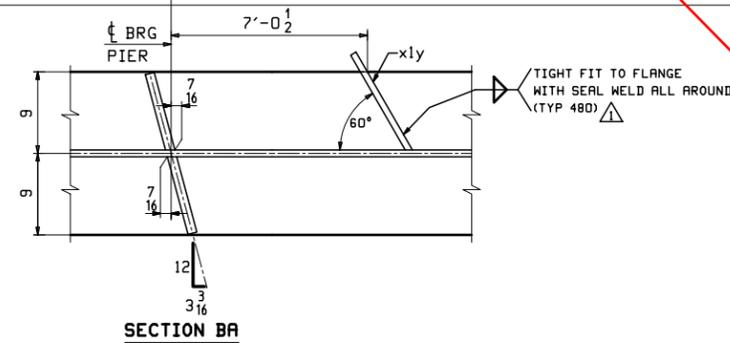
1/19/15	APPROVAL COMMENTS	JTB	WL		
REV. DATE	REMARKS	DWN	CHK	APVL	SHOP
MATERIAL:	M270-50W (UN)	SURFACE PREP. & PAINT:	SEE DWG GNI	HOLES:	15/16" Ø
DESCRIPTION:	GIRDER - 5G5A				
		CASCO BAY STEEL STRUCTURES, INC. 1 WALLACE AVE. SOUTH PORTLAND, ME 04106 PHONE (207) 780-6722 FAX. (207) 780-6726			
STRUCTURE:	TH-8 (RIVER STREET) OVER OTTER CREEK BRIDGE NO: 2 (TH 8) RUTLAND CITY BRIDGE REPLACEMENT	DRAWN:	JTB	DATE:	10/09
LOCATION:	RUTLAND CITY, VERMONT	CHKD:	DO	DATE:	10/22
PROJ NO.	BRF 3000 (16)	JOB NO.	597-1	DWG NO.	5
CUSTOMER:	KUBRICKY CONSTRUCTION CORP.	REV.			



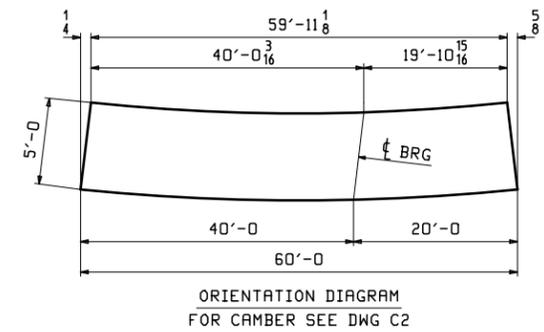
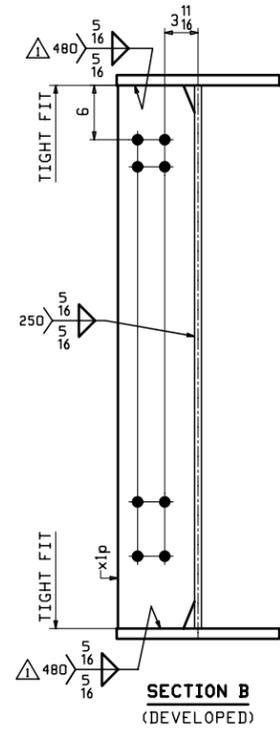
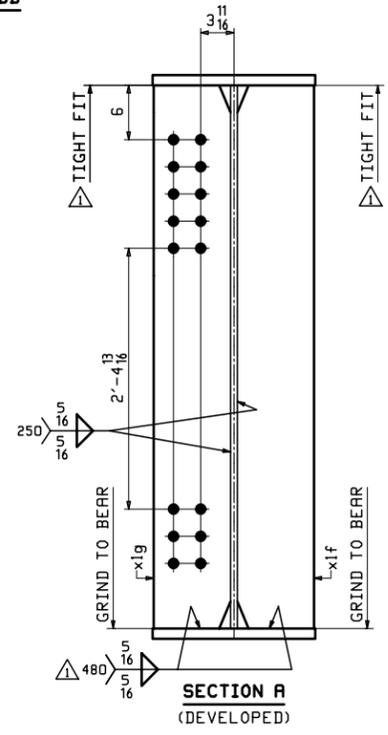
ABM INFO		BILL OF MATERIAL				JOB NO.	DRAWING NO.	REV.	
PAGE	LINE	MARK	QTY	MARK	MATERIAL	LENGTH FT INCHES	REMARKS	WT	PROCUREMENT NOTES
		6G1B	1		GIRDER			28074	
1	N	1	wa		PL 3/4x60	60 0	M270-50WT2	9188	
1	A	1	ta		PL 2 1/2x18	59 11 1/8	M270-50WT2	9176	
1	A	1	ba		PL 2 1/2x18	60 0	M270-50WT2	9188	
2	H	1	xlf		PL 1x8 7/8	5 0	MIE	151	
2	H	1	xlg		PL 1x8 7/8	5 0	MIE	151	
2	J	3	xlp		PL 1/2x8 1/2	5 0		72	
2	L	1	xly		PL 4x4 1/4	1 0 1/8		4	



**ONE - GIRDER - 6G1B**  
 FOR GIRDER STANDARD DETAILS SEE DRAWING X1.  
 FOR CAMBER & FLANGE DIAGRAMS SEE DRAWING C2.  
 FOR GENERAL NOTES SEE DRAWING GNI.  
 T2 DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.

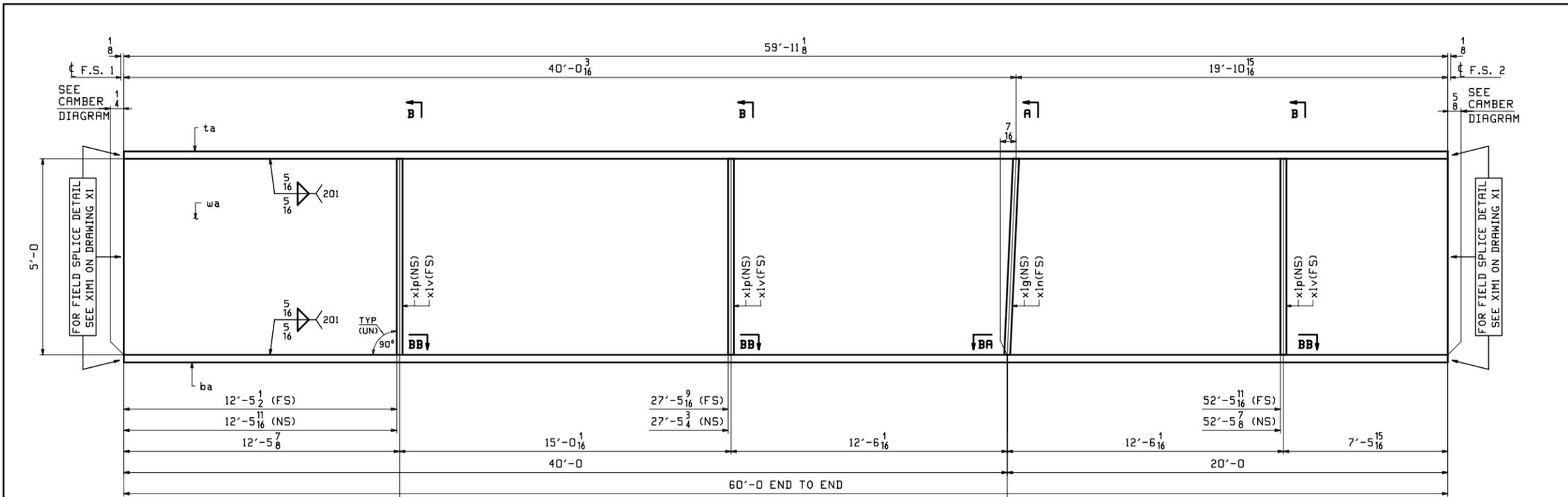


hole size and spacing for attaching 6" force main sewer line, invert to be 3'-2" above bottom of web

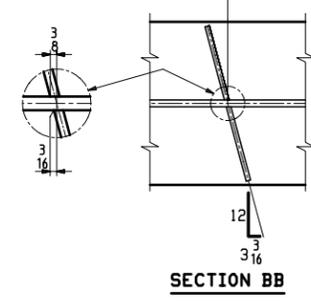


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 BY C. Carlson DATE 04-20-2015

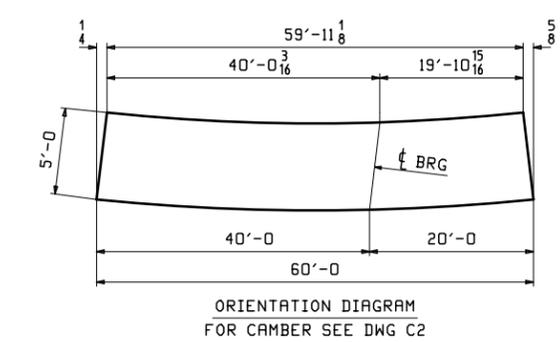
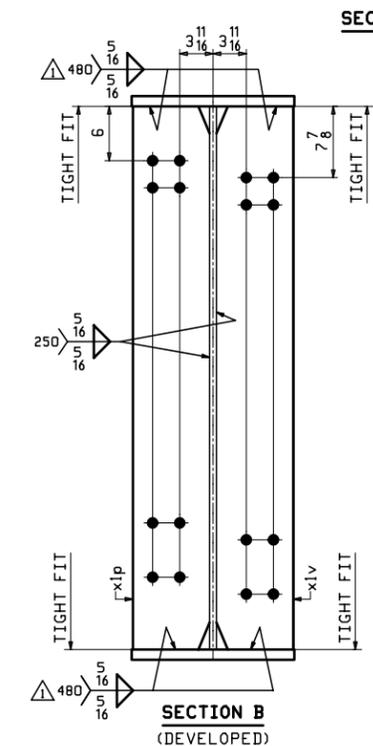
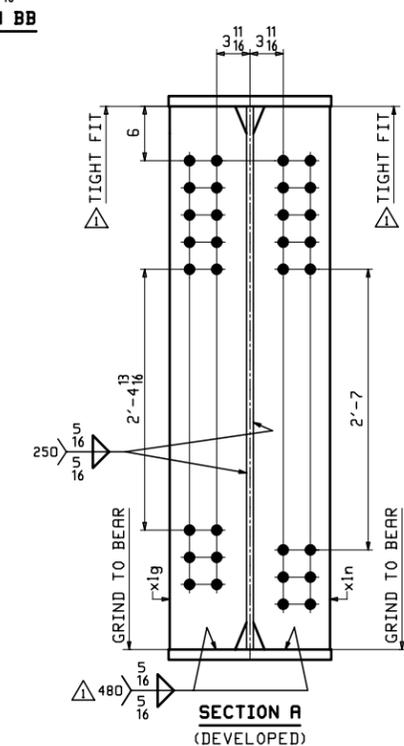
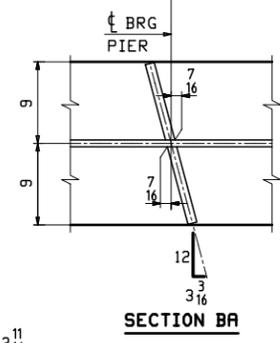
1/19/15	APPROVAL COMMENTS	JTB	WL			
REV.	DATE	REMARKS	DWN	CHK	APVL	SHOP
		MATERIAL: M270-50W (UN)				SHOP BOLTS: NONE
		SURFACE PREP. & PAINT: SEE DWG GNI				
		HOLES: 15 1/16" Ø				
DESCRIPTION: GIRDER - 6G1B						
		CASCO BAY STEEL STRUCTURES, INC. 1 WALLACE AVE. SOUTH PORTLAND, ME 04106 PHONE (207) 780-6722 FAX. (207) 780-6726 				
STRUCTURE: TH-8 (RIVER STREET) OVER OTTER CREEK BRIDGE NO: 2 (TH 8) RUTLAND CITY BRIDGE REPLACEMENT		DRAWN: JTB	DATE: 10/08			
		CHKD: DO	DATE: 10/22			
LOCATION: RUTLAND CITY, VERMONT		JOB NO. 597-1	DWG NO. 6			
PROJ NO. BRF 3000 (16)						
CUSTOMER: KUBRICKY CONSTRUCTION CORP.						



ABM INFO		BILL OF MATERIAL				JOB NO.	DRAWING NO.	REV.	
PAGE	LINE	MARK	QTY	MARK	MATERIAL	LENGTH FT INCHES	REMARKS	WT	PROCUREMENT NOTES
		7G2B	1		GIRDER			28287	
1	N	1	wa		PL 3/4 x 60	60 0	M270-50WT2	9188	
1	A	1	ta		PL 2 1/2 x 18	59 11 8	M270-50WT2	9176	
1	A	1	ba		PL 2 1/2 x 18	60 0	M270-50WT2	9188	
2	H	1	xlg		PL 1 x 8 7/8	5 0	MIE	151	
2	H	1	xln		PL 1 x 8 7/8	5 0	MIE	151	
2	J	3	xlp		PL 1/2 x 8 1/2	5 0		72	
2	J	3	xlv		PL 1/2 x 8 1/2	5 0		72	

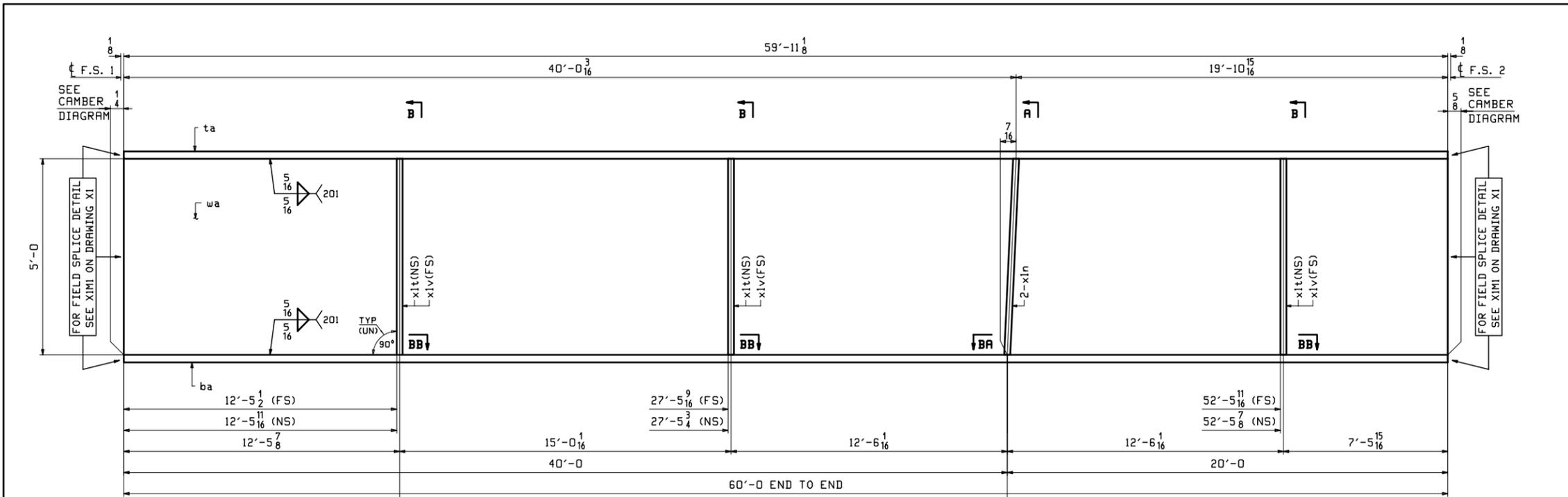


**ONE - GIRDER - 7G2B**  
 FOR GIRDER STANDARD DETAILS SEE DRAWING X1.  
 FOR CAMBER & FLANGE DIAGRAMS SEE DRAWING C2.  
 FOR GENERAL NOTES SEE DRAWING GNI.  
 T2 DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.

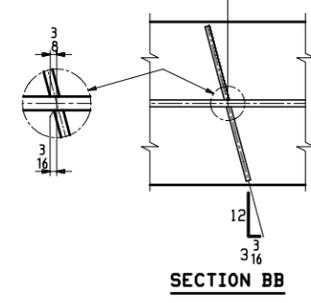


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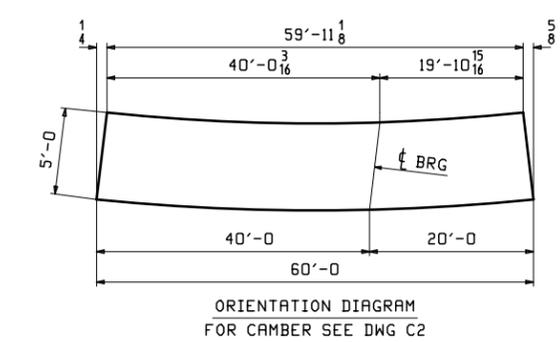
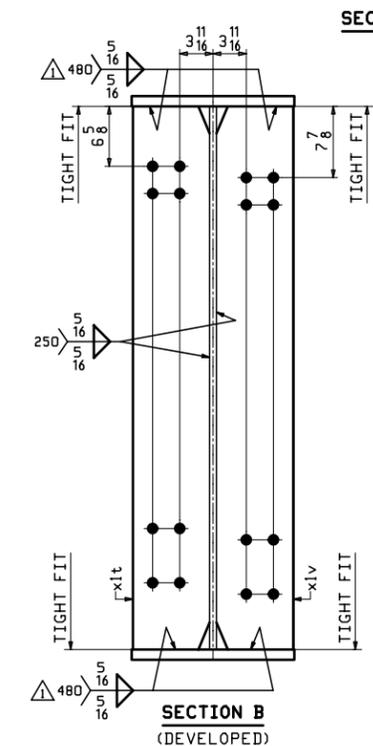
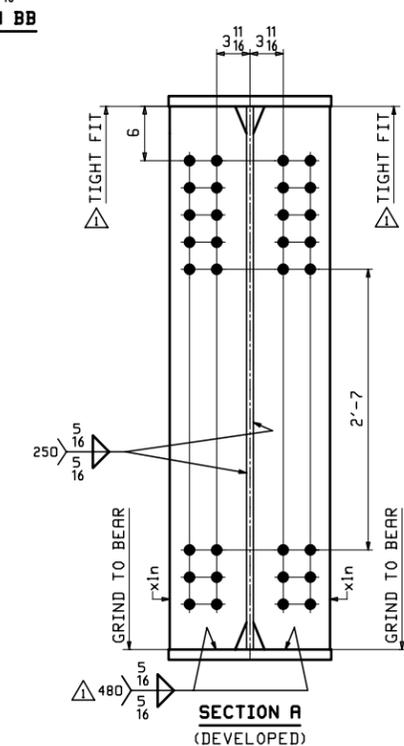
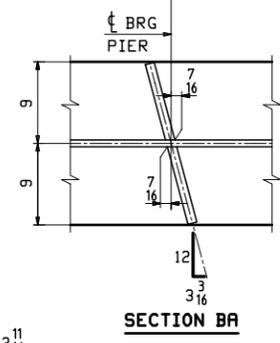
1/19/15	APPROVAL COMMENTS	JTB	WL				
REV.	DATE	REMARKS	DWN	CHK	APVL	SHOP	
MATERIAL:	M270-50W (UN)	SURFACE PREP. & PAINT:	SEE DWG GNI	HOLES:	15/16" Ø	SHOP BOLTS:	NONE
DESCRIPTION: GIRDER - 7G2B							
		CASCO BAY STEEL STRUCTURES, INC. 1 WALLACE AVE. PHONE (207) 780-6722 SOUTH PORTLAND, ME 04106 FAX. (207) 780-6726					
STRUCTURE:	TH-8 (RIVER STREET) OVER OTTER CREEK BRIDGE NO: 2 (TH 8) RUTLAND CITY BRIDGE REPLACEMENT	DRAWN:	JTB	DATE:	10/09		
LOCATION:	RUTLAND CITY, VERMONT	CHKD:	DO	DATE:	10/22		
PROJ NO.	BRF 3000 (16)	JOB NO.	597-1	DWG NO.	7		
CUSTOMER:	KUBRICKY CONSTRUCTION CORP.	REV.					



ABM INFO		BILL OF MATERIAL				JOB NO.	DRAWING NO.	REV.	
PAGE	LINE	MARK	QTY	MARK	MATERIAL	LENGTH FT INCHES	REMARKS	WT	PROCUREMENT NOTES
		8G3B	1		GIRDER			28287	
1	N	1	wa		PL 1/2 x 60	60 0	M270-50WT2	9188	
1	A	1	ta		PL 2 1/2 x 18	59 11 8	M270-50WT2	9176	
1	A	1	ba		PL 2 1/2 x 18	60 0	M270-50WT2	9188	
2	H	2	x1n		PL 1 x 8 7/8	5 0	MIE	151	
2	J	3	x1t		PL 1/2 x 8 1/2	5 0		72	
2	J	3	x1v		PL 1/2 x 8 1/2	5 0		72	

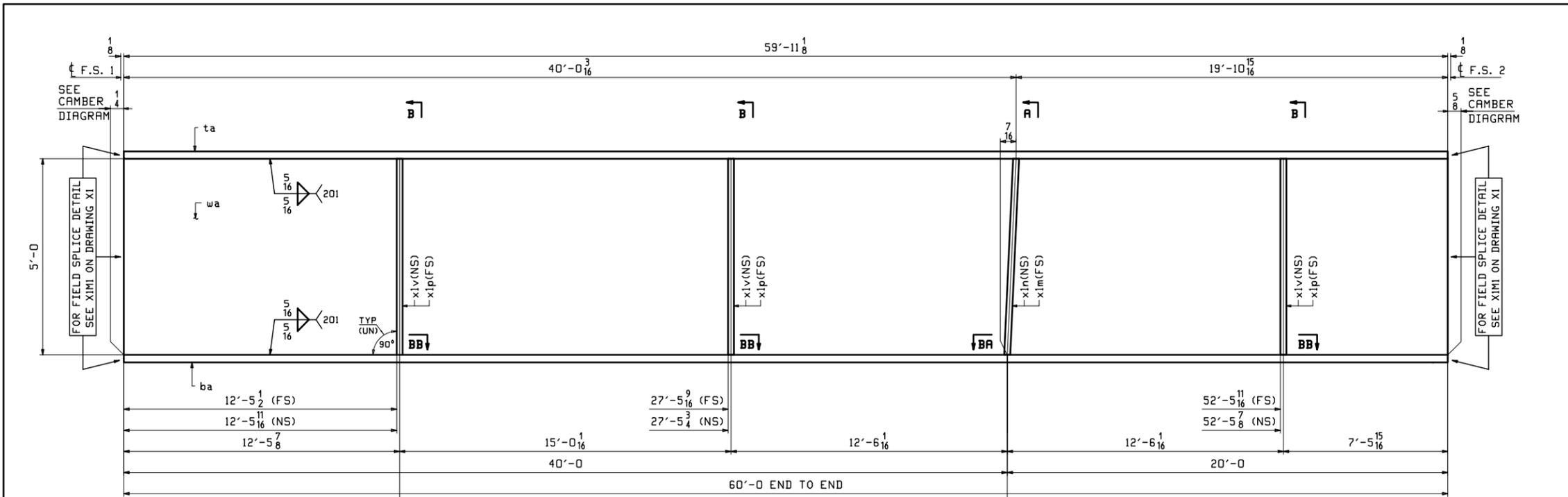


**ONE - GIRDER - 8G3B**  
 FOR GIRDER STANDARD DETAILS SEE DRAWING X1.  
 FOR CAMBER & FLANGE DIAGRAMS SEE DRAWING C2.  
 FOR GENERAL NOTES SEE DRAWING GNI.  
 T2 DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.

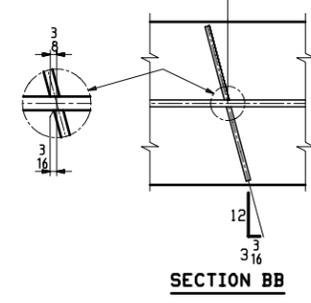


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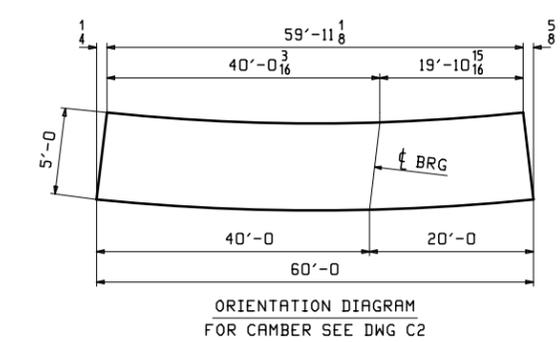
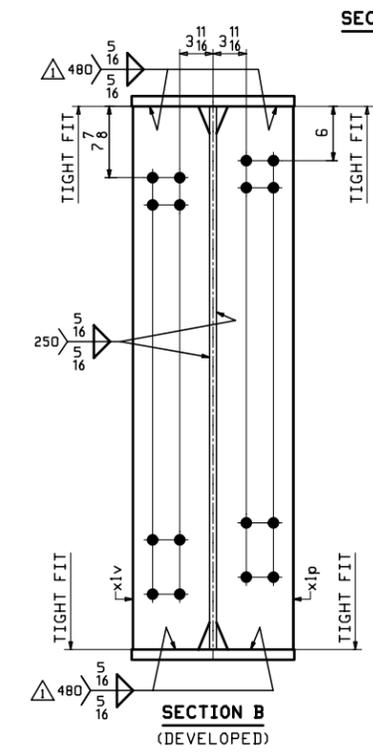
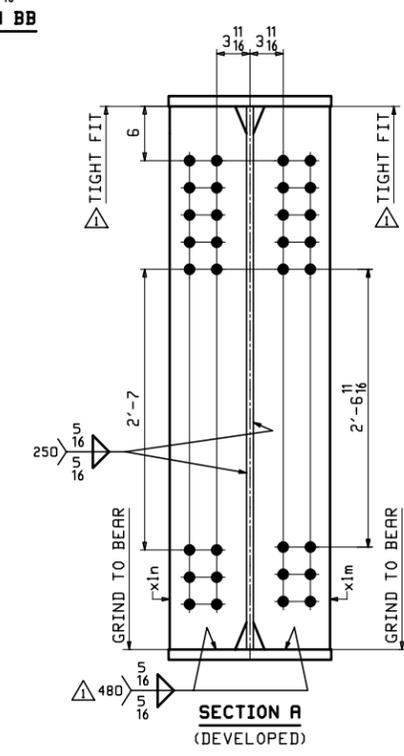
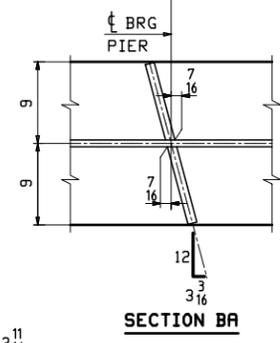
1/19/15	APPROVAL COMMENTS	JTB	WL			
REV.	DATE	REMARKS	DWN	CHK	APVL	SHOP
		MATERIAL: M270-50W (UN)		SURFACE PREP. & PAINT: SEE DWG GNI	HOLES: 15 16 φ	SHOP BOLTS: NONE
DESCRIPTION: GIRDER - 8G3B						
		CASCO BAY STEEL STRUCTURES, INC. 1 WALLACE AVE. SOUTH PORTLAND, ME 04106 PHONE (207) 780-6722 FAX. (207) 780-6726 				
STRUCTURE: TH-8 (RIVER STREET) OVER OTTER CREEK BRIDGE NO: 2 (TH 8) RUTLAND CITY BRIDGE REPLACEMENT			DRAWN: JTB	DATE: 10/09		
			CHKD: DO	DATE: 10/22		
LOCATION: RUTLAND CITY, VERMONT			JOB NO. 597-1	DWG NO. 8		
PROJ NO. BRF 3000 (16)			REV. 8			
CUSTOMER: KUBRICKY CONSTRUCTION CORP.						



ABM INFO		BILL OF MATERIAL				JOB NO.	DRAWING NO.	REV.	
PAGE	LINE	MARK	QTY	MARK	MATERIAL	LENGTH FT INCHES	REMARKS	WT	PROCUREMENT NOTES
		9G4B	1		GIRDER			28287	
1	N		1	wa	PL 3/4x60	60 0	M270-50WT2	9188	
1	A		1	ta	PL 2 1/2x18	59 11 8	M270-50WT2	9176	
1	A		1	ba	PL 2 1/2x18	60 0	M270-50WT2	9188	
2	H		1	xlm	PL 1x8 7/8	5 0	MIE	151	
2	H		1	xln	PL 1x8 7/8	5 0	MIE	151	
2	J		3	xlp	PL 1/2x8 1/2	5 0		72	
2	J		3	xlv	PL 1/2x8 1/2	5 0		72	

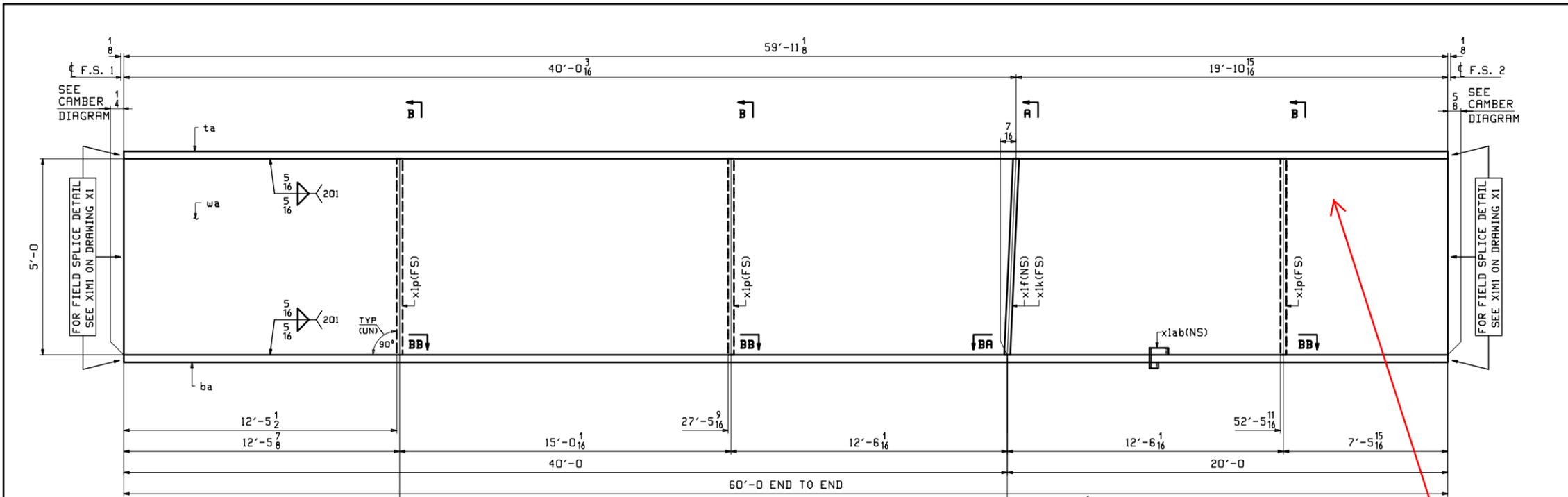


**ONE - GIRDER - 9G4B**  
 FOR GIRDER STANDARD DETAILS SEE DRAWING X1.  
 FOR CAMBER & FLANGE DIAGRAMS SEE DRAWING C2.  
 FOR GENERAL NOTES SEE DRAWING GNI.  
 T2 DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.

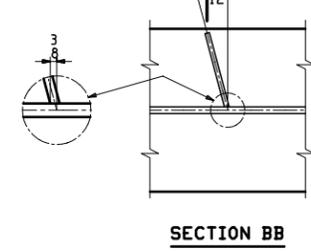


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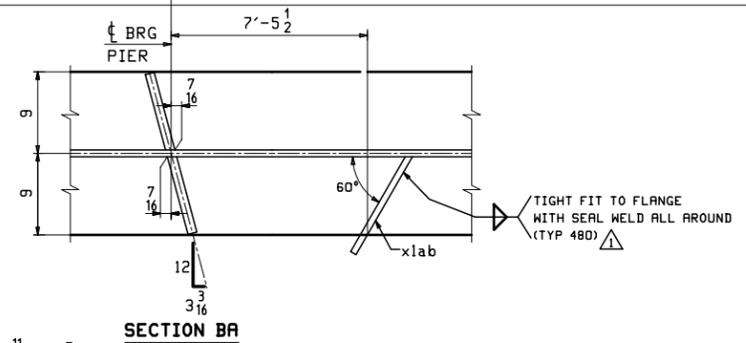
1/19/15	APPROVAL COMMENTS	JTB	WL				
REV.	DATE	REMARKS	DWN	CHK	APVL	SHOP	
MATERIAL:	M270-50W (UN)	SURFACE PREP. & PAINT:	SEE DWG GNI	HOLES:	15/16" Ø	SHOP BOLTS:	NONE
DESCRIPTION: GIRDER - 9G4B							
		CASCO BAY STEEL STRUCTURES, INC. 1 WALLACE AVE. SOUTH PORTLAND, ME 04106 PHONE (207) 780-6722 FAX. (207) 780-6726 					
STRUCTURE:	TH-8 (RIVER STREET) OVER OTTER CREEK BRIDGE NO: 2 (TH 8) RUTLAND CITY BRIDGE REPLACEMENT	DRAWN:	JTB	DATE:	10/09		
LOCATION:	RUTLAND CITY, VERMONT	CHKD:	DO	DATE:	10/22		
PROJ NO.	BRF 3000 (16)	JOB NO.	597-1	DWG NO.	9		
CUSTOMER:	KUBRICKY CONSTRUCTION CORP.	REV.					



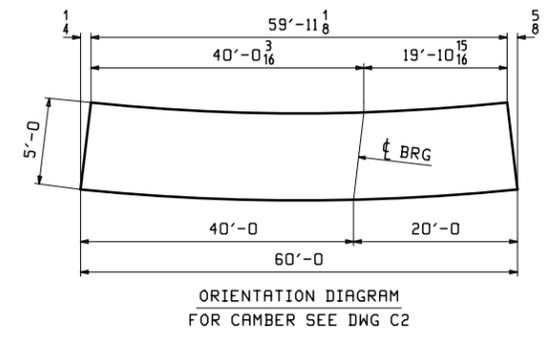
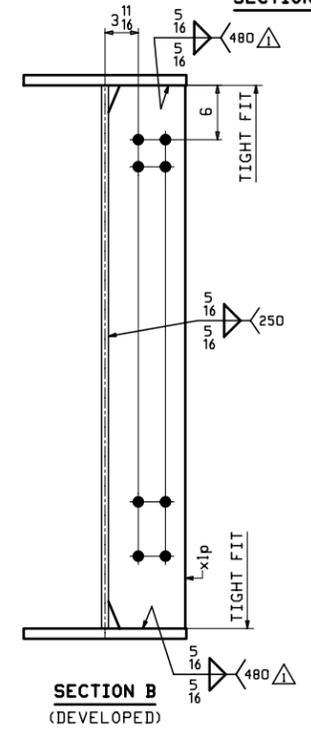
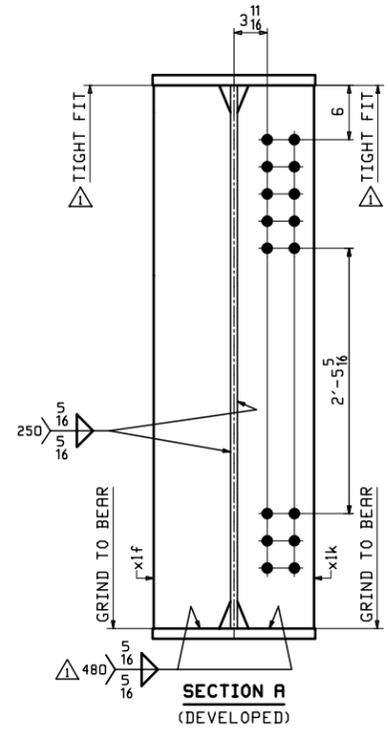
ABM INFO		BILL OF MATERIAL				JOB NO.	DRAWING NO.	REV.	
PAGE	LINE	MARK	QTY	MARK	MATERIAL	LENGTH FT INCHES	REMARKS	WT	PROCUREMENT NOTES
		10G5B	1		GIRDER			28074	
1	N	1	wa		PL 3/4x60	60 0	M270-50WT2	9188	
1	A	1	ta		PL 2 1/2x18	59 11 8	M270-50WT2	9176	
1	A	1	ba		PL 2 1/2x18	60 0	M270-50WT2	9188	
2	H	1	xlf		PL 1x8 7/8	5 0	MIE	151	
2	H	1	xlk		PL 1x8 7/8	5 0	MIE	151	
2	J	3	xlp		PL 1/2x8 1/2	5 0		72	
2	L	1	xlab		PL 4x4 1/4	1 0 8		4	



**ONE - GIRDER - 10G5B**  
 FOR GIRDER STANDARD DETAILS SEE DRAWING X1.  
 FOR CAMBER & FLANGE DIAGRAMS SEE DRAWING C2.  
 FOR GENERAL NOTES SEE DRAWING GNI.  
 T2 DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.



hole size and spacing for attaching 10" water line, invert to be 3'-2" above bottom of web



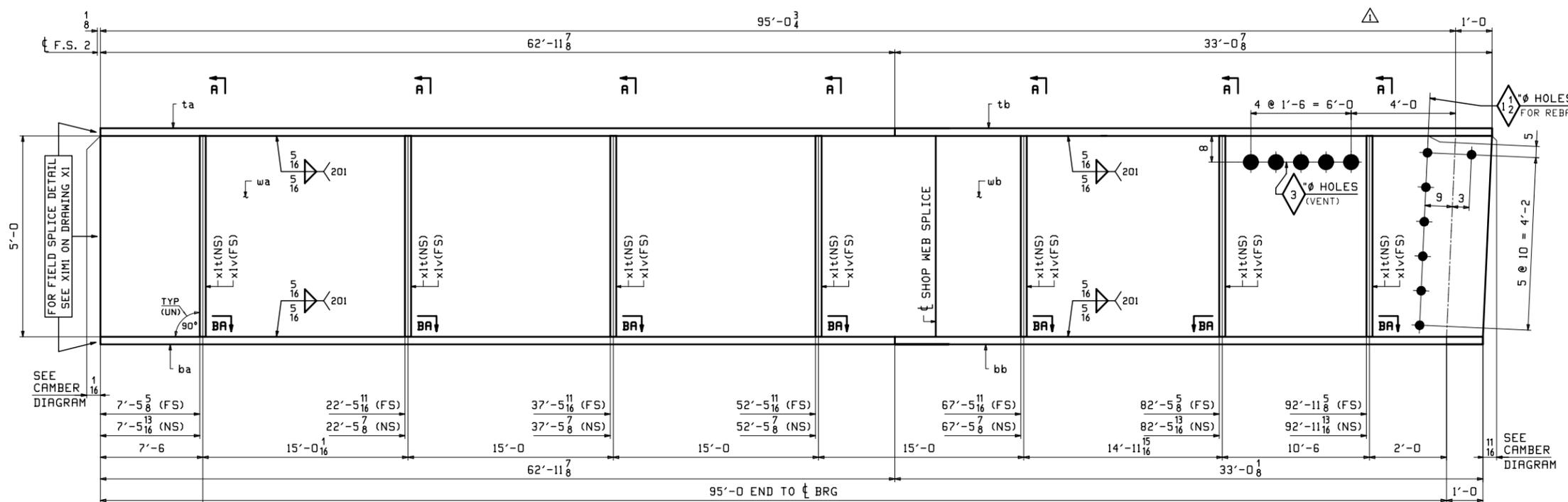
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1/19/15	APPROVAL COMMENTS	JTB	WL			
REV.	DATE	REMARKS	DWN	CHK	APVL	SHOP
		MATERIAL: M270-50W (UN)				SHOP BOLTS: NONE
		SURFACE PREP. & PAINT: SEE DWG GNI				
		HOLES: 15/16" Ø				
DESCRIPTION: GIRDER - 10G5B						
		CASCO BAY STEEL STRUCTURES, INC. 1 WALLACE AVE. SOUTH PORTLAND, ME 04106 PHONE (207) 780-6722 FAX. (207) 780-6726 TENSOR 9284				
STRUCTURE: TH-8 (RIVER STREET) OVER OTTER CREEK BRIDGE NO: 2 (TH 8) RUTLAND CITY BRIDGE REPLACEMENT		DRAWN: JTB		DATE: 10/09		
		CHKD: DO		DATE: 10/22		
LOCATION: RUTLAND CITY, VERMONT		JOB NO. 597-1		DWG NO. 10		
PROJ NO. BRF 3000 (16)				REV. 10		
CUSTOMER: KUBRICKY CONSTRUCTION CORP.				REV. 10		



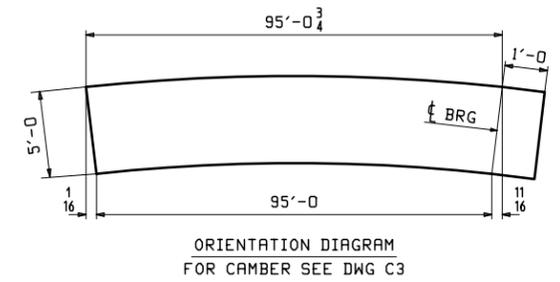
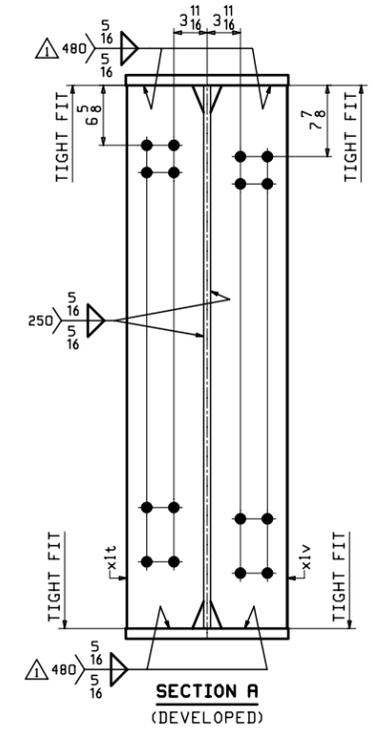
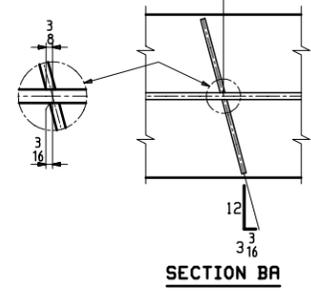




ABM INFO		BILL OF MATERIAL				JOB NO.	DRAWING NO.	REV.	
						597-1	13	△	
PAGE	LINE	MARK	QTY	MARK	MATERIAL	LENGTH FT INCHES	REMARKS	WT	PROCUREMENT NOTES
		13G3C	1		GIRDER			28957	
1	S	1	wa		PL 3/4 x 60	64 0	M270-50WT2	9800	
1	U	1	wb		PL 3/4 x 60	32 0 13/16	M270-50WT2	4910	
1	E	1	ta		PL 1/2 x 18	62 11 7/8	M270-50WT2	4340	
1	J	1	tb		PL 1/2 x 18	33 0 7/8	M270-50WT2	2279	
1	E	1	ba		PL 1/2 x 18	62 11 7/8	M270-50WT2	4340	
1	J	1	bb		PL 1/2 x 18	33 0 7/8	M270-50WT2	2275	
2	J	7	xlt		PL 1/2 x 8 1/2	5 0		72	
2	J	7	xlx		PL 1/2 x 8 1/2	5 0		72	

**ONE - GIRDER - 13G3C**

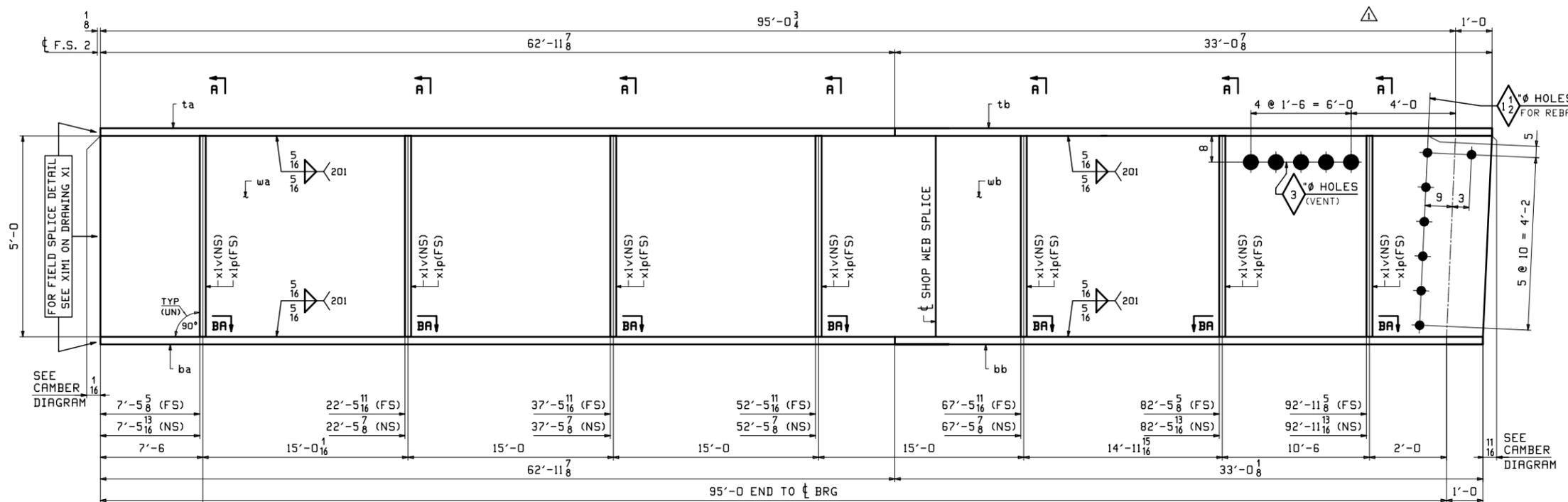
FOR GIRDER STANDARD DETAILS SEE DRAWING X1.  
 FOR CAMBER & FLANGE DIAGRAMS SEE DRAWING C3.  
 FOR GENERAL NOTES SEE DRAWING GNI.  
 T2 DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.



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△	1/19/15	APPROVAL COMMENTS	JTB	WL		
0						
REV.	DATE	REMARKS	DWN	CHK	APVL	SHOP
		MATERIAL: M270-50W (UN)	SURFACE PREP. & PAINT: SEE DWG GNI	HOLES: 15/16" (UN)	SHOP BOLTS: NONE	
DESCRIPTION:		GIRDER - 13G3C				
STRUCTURE:		TH-8 (RIVER STREET) OVER OTTER CREEK BRIDGE NO: 2 (TH 8)		RUTLAND CITY BRIDGE REPLACEMENT		
LOCATION:		RUTLAND CITY, VERMONT		JOB NO. 597-1		DWG NO. 13
PROJ NO. BRF 3000 (16)		CUSTOMER: KUBRICKY CONSTRUCTION CORP.		DATE: 10/10		DATE: 10/22
				DRAWN: JTB		DATE: 10/10
				CHKD: DO		DATE: 10/22
				REV. △		

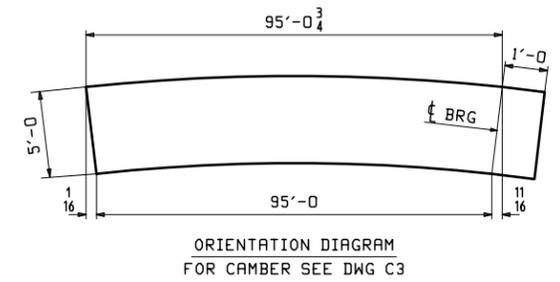
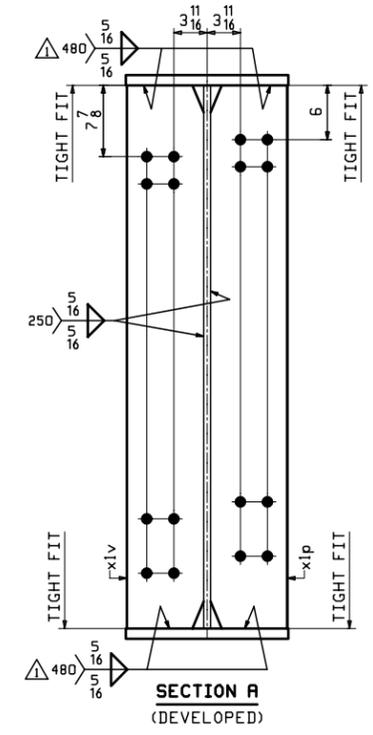
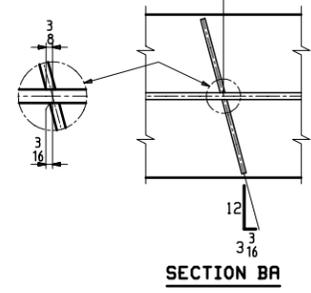
218 Rev. Jan 15, 2015 ID:4452 JM /user/2015/2015/13 1 Rev1



ABM INFO		BILL OF MATERIAL				JOB NO.	DRAWING NO.	REV.	
PAGE	LINE	MARK	QTY	MARK	MATERIAL	LENGTH FT INCHES	REMARKS	WT	PROCUREMENT NOTES
		14G4C	1		GIRDER			28957	
1	S	1	wa		PL <sup>3</sup> / <sub>4</sub> x 60	64 0	M270-50WT2	9800	
1	U	1	wb		PL <sup>3</sup> / <sub>4</sub> x 60	32 0 <sup>13</sup> / <sub>16</sub>	M270-50WT2	4910	
1	E	1	ta		PL <sup>1</sup> / <sub>2</sub> x 18	62 11 <sup>7</sup> / <sub>8</sub>	M270-50WT2	4340	
1	J	1	tb		PL <sup>1</sup> / <sub>2</sub> x 18	33 0 <sup>7</sup> / <sub>8</sub>	M270-50WT2	2279	
1	E	1	ba		PL <sup>1</sup> / <sub>2</sub> x 18	62 11 <sup>7</sup> / <sub>8</sub>	M270-50WT2	4340	
1	J	1	bb		PL <sup>1</sup> / <sub>2</sub> x 18	33 0 <sup>7</sup> / <sub>8</sub>	M270-50WT2	2275	
2	J	7	xlp		PL <sup>1</sup> / <sub>2</sub> x 8 <sup>1</sup> / <sub>2</sub>	5 0		72	
2	J	7	xlv		PL <sup>1</sup> / <sub>2</sub> x 8 <sup>1</sup> / <sub>2</sub>	5 0		72	

**ONE - GIRDER - 14G4C**

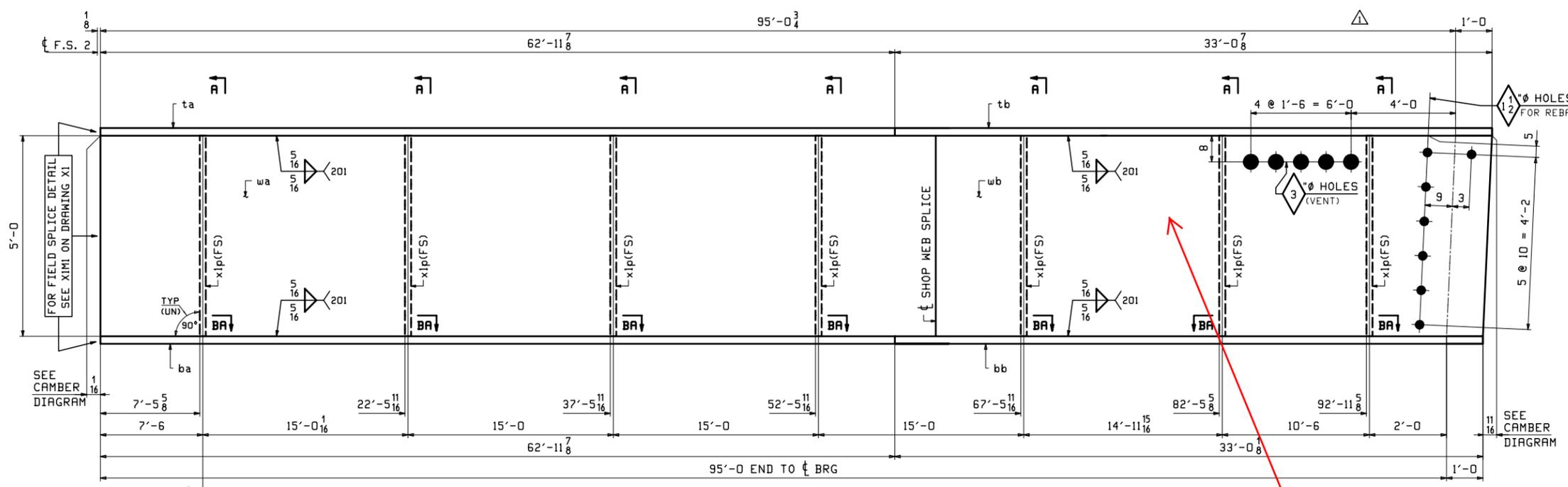
FOR GIRDER STANDARD DETAILS SEE DRAWING X1.  
 FOR CAMBER & FLANGE DIAGRAMS SEE DRAWING C3.  
 FOR GENERAL NOTES SEE DRAWING GNI.  
 T2 DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.



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1/19/15	APPROVAL COMMENTS	JTB	WL			
REV.	DATE	REMARKS	DWN	CHK	APVL	SHOP
0						
MATERIAL: M270-50W (UN)		SURFACE PREP. & PAINT: SEE DWG GNI		HOLES: 15 ∅ (UN)		SHOP BOLTS: NONE
DESCRIPTION: GIRDER - 14G4C						
		<b>CASCO BAY STEEL STRUCTURES, INC.</b> 1 WALLACE AVE. SOUTH PORTLAND, ME 04106 PHONE (207) 780-6722 FAX. (207) 780-6726				
STRUCTURE: TH-8 (RIVER STREET) OVER OTTER CREEK BRIDGE NO: 2 (TH 8) RUTLAND CITY BRIDGE REPLACEMENT			DRAWN: JTB	DATE: 10/10		
			CHKD: DO	DATE: 10/22		
LOCATION: RUTLAND CITY, VERMONT			JOB NO. 597-1	DWG NO. 14		
PROJ NO. BRF 3000 (16)			CUSTOMER: KUBRICKY CONSTRUCTION CORP.		REV. 14	

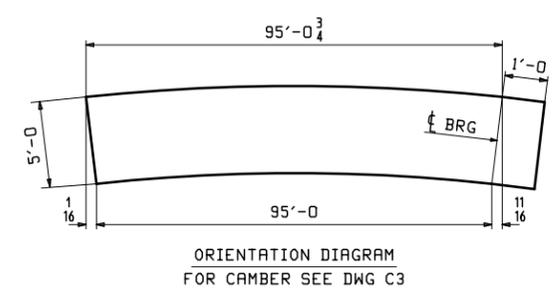
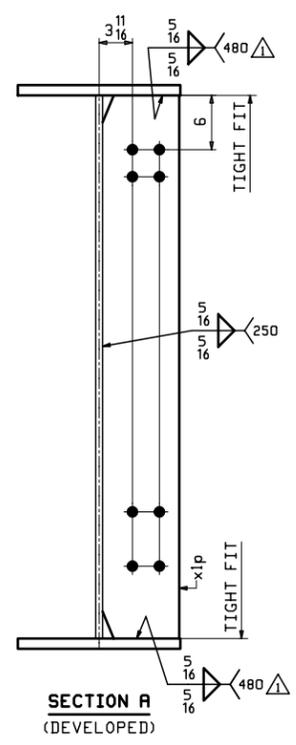
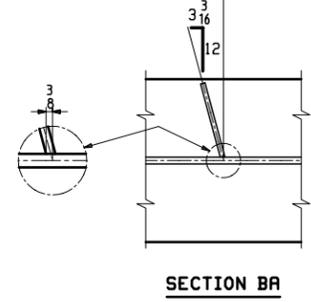
218 Rev. Jan 15, 2015 10:45:58 AM /user/288/288/cr1.1 Rev1



**ONE - GIRDER - 15G5C**

FOR GIRDER STANDARD DETAILS SEE DRAWING X1.  
 FOR CAMBER & FLANGE DIAGRAMS SEE DRAWING C3.  
 FOR GENERAL NOTES SEE DRAWING GNI.  
 T2 DENOTES MATERIAL SUBJECT TO CHARPY V-NOTCH TESTING.

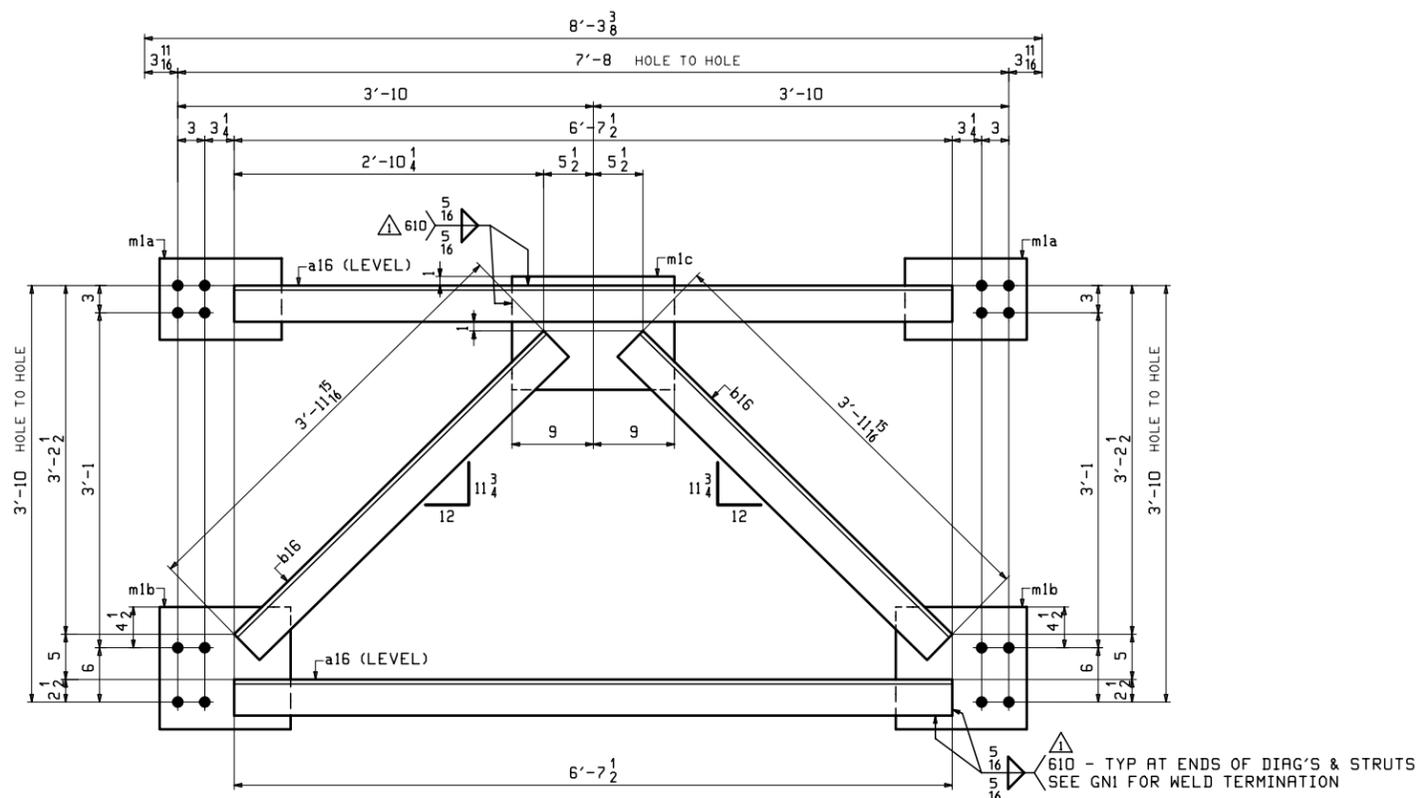
hole size and spacing for attaching 10" water line, invert to be 3'-2" above bottom of web



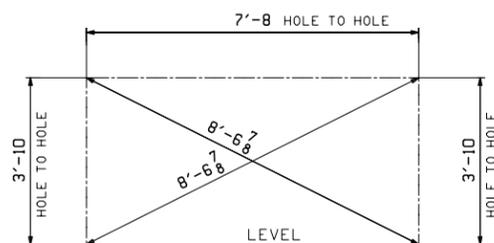
ABM INFO		BILL OF MATERIAL				JOB NO.	DRAWING NO.	REV.	
PAGE	LINE	MARK	QTY	MARK	MATERIAL	LENGTH FT INCHES	REMARKS	WT	PROCUREMENT NOTES
		15G5C	1		GIRDER			28451	
1	S	1	wa	PL 3/4 x 60	64 0		M270-50WT2	9800	
1	U	1	wb	PL 3/4 x 60	32 0 13/16		M270-50WT2	4910	
1	E	1	ta	PL 1/2 x 18	62 11 7/8		M270-50WT2	4340	
1	J	1	tb	PL 1/2 x 18	33 0 6		M270-50WT2	2279	
1	E	1	ba	PL 1/2 x 18	62 11 7/8		M270-50WT2	4340	
1	J	1	bb	PL 1/2 x 18	33 0 6		M270-50WT2	2275	
2	J	7	x1p	PL 1/2 x 8 1/2	5 0			72	

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1/19/15	APPROVAL COMMENTS	JTB	WL			
REV.	DATE	REMARKS	DWN	CHK	APVL	SHOP
		MATERIAL: M270-50W (UN)	SURFACE PREP. & PAINT: SEE DWG GNI	HOLES: 15/16" (UN)	SHOP BOLTS: NONE	
DESCRIPTION: GIRDER - 15G5C						
		CASCO BAY STEEL STRUCTURES, INC. 1 WALLACE AVE. SOUTH PORTLAND, ME 04106 PHONE (207) 780-6722 FAX. (207) 780-6726				
STRUCTURE: TH-8 (RIVER STREET) OVER OTTER CREEK BRIDGE NO: 2 (TH 8) RUTLAND CITY BRIDGE REPLACEMENT		DRAWN: JTB	DATE: 10/10			
		CHKD: DO	DATE: 10/22			
LOCATION: RUTLAND CITY, VERMONT		JOB NO. 597-1	DWG NO. 15			
PROJ NO. BRF 3000 (16)			REV. 15			
CUSTOMER: KUBRICKY CONSTRUCTION CORP.						



△ 72 ~ INT. CROSSFRAMES - 16CF1 ← NO PAINT  
LOOKING UP-STATION



CROSS-CHECK DIMENSIONS

△ 16CF1

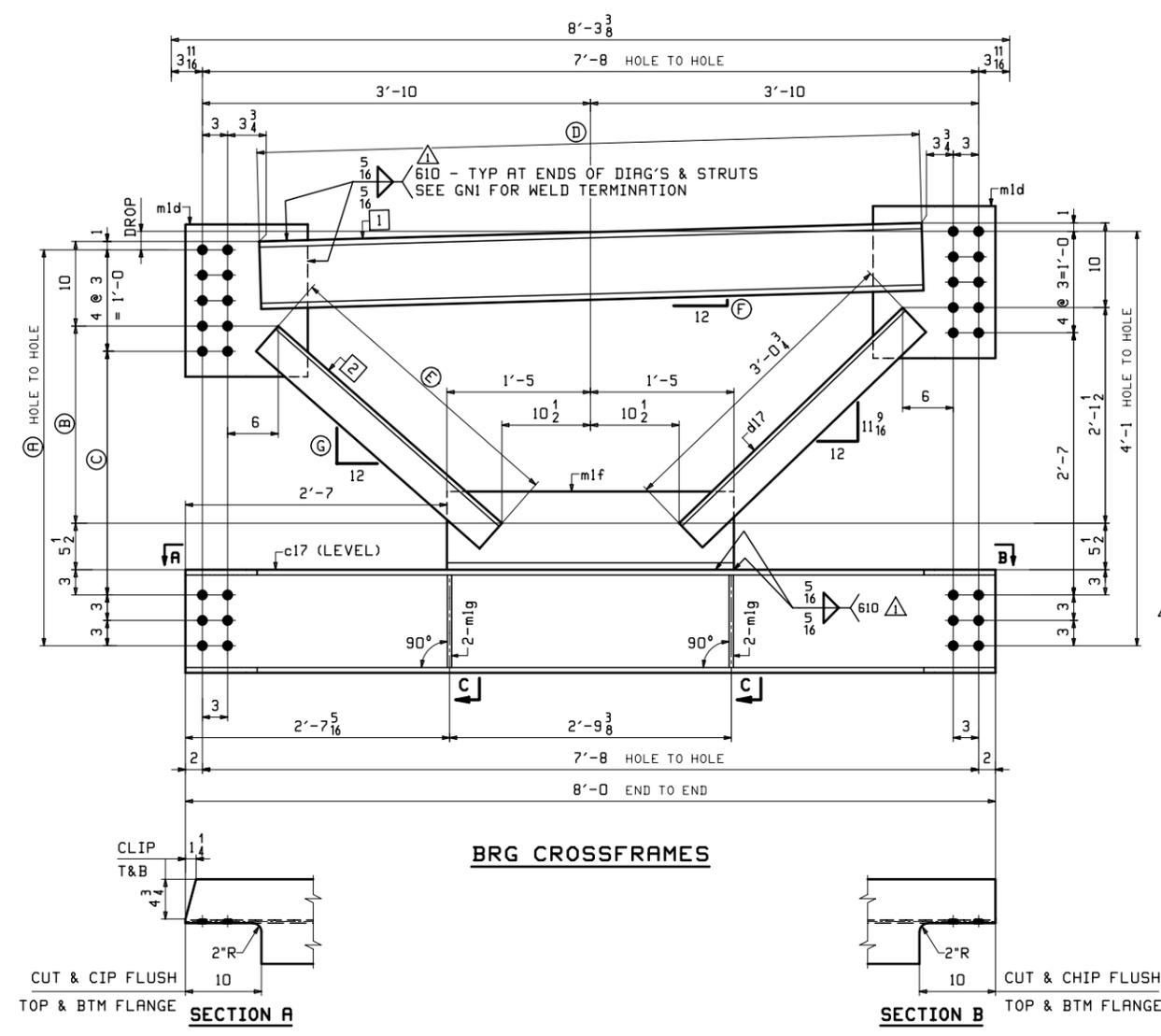
ABM INFO		BILL OF MATERIAL				JOB NO.	DRAWING NO.	REV.	
						597-1	16	△	
PAGE	LINE	MARK	QTY	MARK	MATERIAL	LENGTH FT INCHES	REMARKS	WT	PROCUREMENT NOTES
					INT CROSSFRAMES		NO PAINT REQ'D	393	
3	K		144	a16	L 4x4x 1/2	6 7 1/2		85	
3	L		144	b16	L 4x4x 1/2	3 11 15/16		51	
3	M		144	m1a	PL 1/2x9	1 1 1/2		17	
3	N		144	m1b	PL 1/2x13 1/2	1 2 1/2		28	
3	P		72	m1c	PL 1/2x12 1/2	1 6		32	

- NOTE:  
1. FOR GENERAL NOTES SEE DRAWING GNI.  
2. FOR STANDARD DETAILS SEE DRAWING M1.

△	1/19/15	APPROVAL COMMENTS	JTB	WL			
0							
REV.	DATE	REMARKS	DWN	CHK	APVL	SHOP	
MATERIAL:	M270-50W	SURFACE PREP. & PAINT:	SEE DWG GNI	HOLES:	15/16" Ø	SHOP BOLTS:	NONE
DESCRIPTION: CROSSFRAMES							
		<b>CASCO BAY STEEL STRUCTURES, INC.</b> 1 WALLACE AVE. SOUTH PORTLAND, ME 04106 PHONE (207) 780-6722 FAX. (207) 780-6726 					
STRUCTURE: TH-8 (RIVER STREET) OVER OTTER CREEK BRIDGE NO: 2 (TH 8) RUTLAND CITY BRIDGE REPLACEMENT			DRAWN:	JTB	DATE:	10/09	
			CHKD:	DO	DATE:	10/22	
LOCATION: RUTLAND CITY, VERMONT			JOB NO.	597-1	DWG NO.	16	
PROJ NO. BRF 3000 (16)			CUSTOMER:	KUBRICKY CONSTRUCTION CORP.	REV.	△	

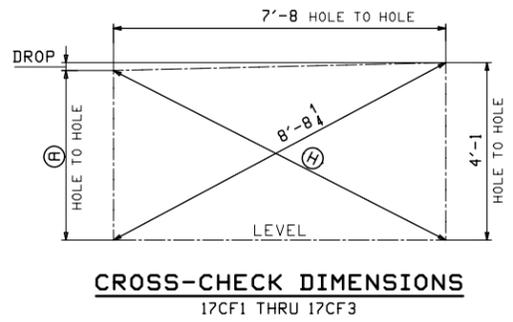
Vermont Agency of Transportation  
**RECEIVED**  
 CK'D BY MEM OK'D BY CWC  
 Apr. 17, 2015  
 RESUBMIT APPROVED ✓  
 BY C. Carlson DATE 04-20-2015

ABM INFO		BILL OF MATERIAL				JOB NO.	DRAWING NO.	REV.		
						597-1	17	△		
PAGE	LINE	MARK	QTY	MARK	MATERIAL	LENGTH FT	INCHES	REMARKS	WT	PROCUREMENT NOTES
		17CF1	2		BRG CROSSFRAMES			PRINTED	894	
3	B		2	a17	MC 8x22.8	6	6 1/16		149	
3	C		2	c17	W 12x58	8	0		464	
3	D		2	d17	L 4x4x 1/2	3	0 3/4		39	
3	D		2	f17	L 4x4x 1/2	2	11 5/16		38	
3	E		4	m1d	PL 1/2x14 1/2	1	6		37	
3	F		2	m1f	WT 9x35.5	2	10		101	
3	G		8	m1g	PL 1/2x4 1/4	0	10 7/8		7	
		17CF2	1		BRG CROSSFRAME			NO PRINT REQ'D	894	
3	B		1	b17	MC 8x22.8	6	6 1/2		149	
3	C		1	c17	W 12x58	8	0		464	
3	D		1	d17	L 4x4x 1/2	3	0 3/4		39	
3	D		1	g17	L 4x4x 1/2	2	11 8/16		38	
3	E		2	m1d	PL 1/2x14 1/2	1	6		37	
3	F		1	m1f	WT 9x35.5	2	10		101	
3	G		4	m1g	PL 1/2x4 1/4	0	10 7/8		7	
		17CF3	1		BRG CROSSFRAME			NO PRINT REQ'D	895	
3	B		1	b17	MC 8x22.8	6	6 1/2		149	
3	C		1	c17	W 12x58	8	0		464	
3	D		1	d17	L 4x4x 1/2	3	0 3/4		39	
3	D		1	k17	L 4x4x 1/2	3	0 16		39	
3	E		2	m1d	PL 1/2x14 1/2	1	6		37	
3	F		1	m1f	WT 9x35.5	2	10		101	
3	G		4	m1g	PL 1/2x4 1/4	0	10 7/8		7	



MARK "A"	QTY	DROP	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
17CF1	2	2 3/16	3'-10 13/16	1'-11 5/16	2'-4 13/16	6'-6 9/16	2'-11 5/16	5/16	10 9/16	8'-7 1/4	a17	f17
17CF2	1	1 11/16	3'-11 5/16	1'-11 13/16	2'-5 5/16	6'-6 1/2	2'-11 5/8	1/4	10 3/4	8'-7 7/16	b17	g17
17CF3	1	5/16	4'-0 11/16	2'-1 3/16	2'-6 11/16	6'-6 1/2	3'-0 9/16	1/16	11 3/8	8'-8 1/16	b17	k17

ABUT 1 MATCH TO x1g  
PIER MATCH TO x1k  
PIER MATCH TO x1m



NOTE:  
1. FOR GENERAL NOTES SEE DRAWING GNI.  
2. FOR STANDARD DETAILS SEE DRAWING M1.

△	1/19/15	APPROVAL COMMENTS	JTB	WL		
0						
REV.	DATE	REMARKS	DWN	CHK	APVL	SHOP
		MATERIAL: M270-50W				SHOP BOLTS: NONE
		SURFACE PREP. & PAINT: SEE DWG GNI				HOLE: 15/16" Ø
DESCRIPTION: CROSSFRAMES						
CASCO BAY STEEL STRUCTURES, INC.		CASCO BAY STEEL STRUCTURES, INC. 1 WALLACE AVE. SOUTH PORTLAND, ME 04106 PHONE (207) 780-6722 FAX. (207) 780-6726				
STRUCTURE: TH-8 (RIVER STREET) OVER OTTER CREEK BRIDGE NO: 2 (TH 8) RUTLAND CITY BRIDGE REPLACEMENT			DRAWN: JTB	DATE: 10/09		
			CHKD: DO	DATE: 10/22		
LOCATION: RUTLAND CITY, VERMONT			JOB NO. 597-1	DWG NO. 17		
PROJ NO. BRF 3000 (16)						
CUSTOMER: KUBRICKY CONSTRUCTION CORP.						

Vermont Agency of Transportation  
**RECEIVED**  
CK'D BY MEM OK'D BY CWC  
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17B Rev. Jan 15, 2015 10:27:50 AM C:\pwr\288\288r17.rvt

