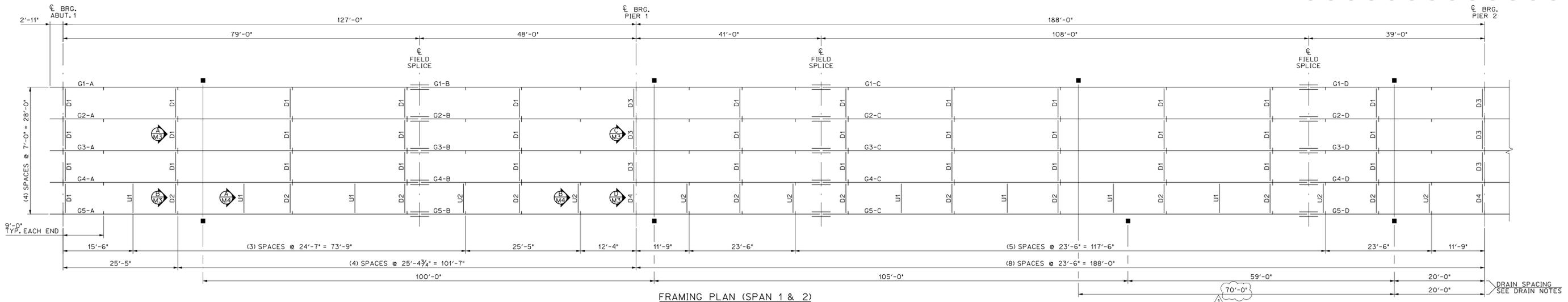


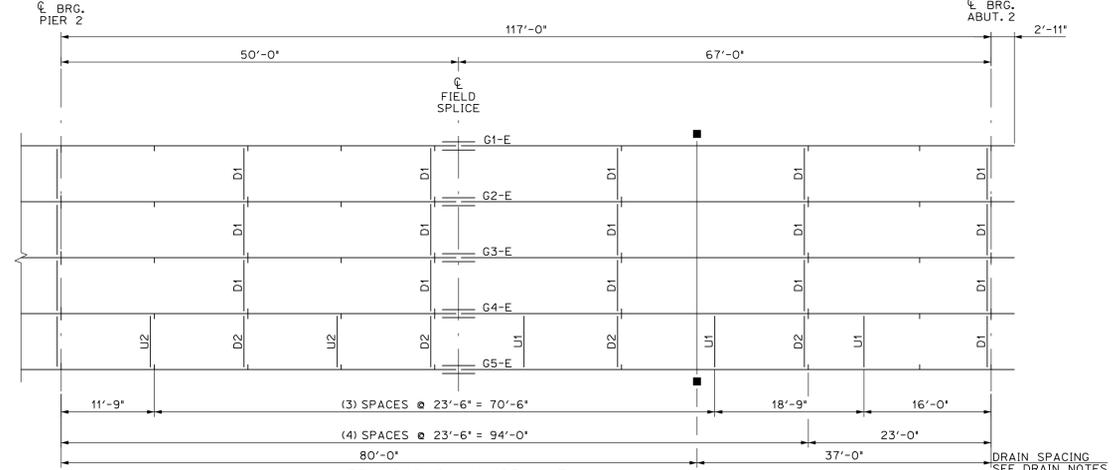
BLOCKING DIAGRAM ~ SEE CHART
 NTS
 ALL DIMENSIONS ARE TO THE OUTSIDE OF BOTTOM FLANGES

TYP. ALL GIRDERS	ABUT. #1							FIELD SPLICE #1							FIELD SPLICE #2							FIELD SPLICE #3							FIELD SPLICE #4										
	'A'	'B'	'C'	'D'	'E'	'F'	'G'	'A' SECTION 'FS1-A'	'B' SECTION 'FS1-A'	'H'	'I'	'J'	'K'	'L'	'M'	'A' SECTION 'FS2-B'	'B' SECTION 'FS2-C'	'N'	'O'	'P'	'Q'	'R'	'S'	'T'	'A' SECTION 'FS3-C'	'B' SECTION 'FS3-D'	'U'	'V'	'W'	'X'	'Y'	'A' SECTION 'FS4-D'	'B' SECTION 'FS4-E'	'Z'	'AA'	'BB'	'CC'	'DD'	'EE'
	6'	6 1/2'	7'	7 3/8'	7 1/8'	7'	6 5/8'	6 1/8"	6 5/8"	6"	5 3/8"	5 1/8"	5 5/8"	6 5/8"	8 1/2"	8 3/16"	9 1/16"	10 7/8"	11 1/16"	12 3/8"	11 3/8"	10 9/16"	9 1/16"	8 3/16"	8 1/16"	7 1/16"	5 3/8"	5 1/16"	5"	5 3/4"	5 5/8"	6"	6 1/4"	6 3/8"	6 5/8"	6 5/8"	6 1/2"	6 1/4"	6"

- ### GENERAL FABRICATION NOTES
- MATERIAL SPECIFICATIONS**
- ALL MATERIAL SHALL BE ASTM A709 GRADE 50W (UNO)
 - ALL A709 GRADE 50 MATERIAL DENOTED "CVN" SHALL MEET THE CHARTER NOTCH TESTING REQUIREMENTS OF ZONE 2. H FREQUENCY: 15 FT-LBS AT 40° (UP TO 2" WELDED)
 - ITEMS SHALL CALL OUT "CVN" FOR EACH APPLICABLE ITEM IN THE BILL OF MATERIALS
 - BOLTS SHALL BE HIGH STRENGTH BOLTS ASTM A325, TYPE 3
 NUTS SHALL BE A563 GRADE C3 OR DH3
 WASHERS SHALL BE ASTM F436, TYPE 3
 BOLTS AND NUTS SHALL BE ROTATIONAL CAPACITY TESTED. DO NOT MIX NUTS AND BOLTS FROM DIFFERENT CONTAINERS UNLESS ALL NUTS AND BOLTS HAVE THE SAME LOT NUMBER.
- FABRICATION**
- DIE STAMPING IS ALLOWED IN SPECIFIC LOCATIONS WITH THE APPROVAL OF THE ENGINEER
 - ALL EDGES OF FLAME CUT MATERIAL SUBJECTED TO CALCULATED STRESSES SHALL BE ROUNDED TO A MINIMUM RADIUS OF 1/16" PER STANDARD SPEC. 506.12(d)
 - ALL PLATES, FLAME CUT FROM LARGER PLATES, SHALL BE CUT SO THAT THE PRIMARY DIRECTION OF ROLLING IS PARALLEL TO THE MAIN TENSILE OR COMPRESSIVE STRESS PER STANDARD 506.08 OF 2011 SPECIFICATIONS.
 - FLANGE PLATE MATERIAL SHALL HAVE AN EDGE HARDNESS NOT GREATER THAN HRC 30, ALLOWED PER STANDARD SPEC. 506.09.
- WELDING**
- ALL WELDING PROCEDURES SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF SUBSECTION 506.10.
 - NON DESTRUCTIVE TESTING OF WELDS SHALL BE IN ACCORDANCE WITH ANSI/AASHTO/AWS D1.5 - SECTION 6. FLANGE WELDS WILL BE CALLED OUT AS BEING IN EITHER COMPRESSION OR TENSION. WEB WELDS WILL LABEL EITHER TOP OR BOTTOM AS BEING IN COMPRESSION, OR BE LABELED AS BEING IN A STRESS REVERSAL AREA.
- FLANGE SPLICES SHALL BE TESTED AS FOLLOWS:**
 FLANGE SPLICES IN TENSION ~ TESTED 100%
 FLANGE SPLICES IN STRESS REVERSAL AREAS ~ TESTED 100%
 FLANGE SPLICES IN COMPRESSION ~ TESTED 25%
- WEB SPLICES SHALL BE TESTED AS FOLLOWS:**
 FOR 1/8" DEPTH OF THE WEB (TENSION AREA) ~ TESTED 100%
 FOR THE REMAINING DEPTH OF WEB (COMPRESSION AREA) ~ TESTED 25%
 FOR 1/8" DEPTH OF THE WEB @ TOP & BTM. (STRESS REVERSAL) ~ TESTED 100%
 THE REMAINING 2/3 OF THE WEB ~ TESTED 25%
- TERMINATE STIFFENER WELDS AS SHOWN IN THE "WELD TERMINATION DETAILS" ON SHEETS M2 & M3
- FIELD CONNECTIONS**
- FIELD BOLTS SHALL HAVE A HEAVY HEX NUT, HEX HEAD, AND ONE HARDENED WASHER EACH.
 - PIECE MARKS WILL BE LOCATED AS SHOWN ON ERECTION DRAWINGS. ALL ERECTION MARKS, MATCH MARKS, AND WEIGHT MARKS MUST NOT BE EXPOSED IN THE FINISHED STRUCTURE.
 - HARDENED WASHERS ARE REQUIRED OVER OVERSIZED HOLES.
- CLEANING AND PAINTING**
- UNPAINTED STEEL SHALL BE BLAST CLEANED TO SSPC SP-6 TO ACHIEVE A UNIFORM WEATHERED APPEARANCE.



FRAMING PLAN (SPAN 1 & 2)
 SCALE: 3/32" = 1'-0"



FRAMING PLAN (SPAN 3)
 SCALE: 3/32" = 1'-0"

DRAIN NOTES:

- DRAIN SPACING HAS BEEN REVISED TO MATCH THE CONTRACT DETAILS BASED ON THE COMMENTS FOR THE REV0 SUBMISSION.
- DRAINS ARE TO BE DETAILED IN A SEPARATE SUBMISSION.

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements.

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 6/6/16

By: George Bogue

Stantec

This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subcontractors.

Vermont Agency of Transportation
RECEIVED
 CK'D BY Stantec OK'D BY D Bonneau
 December 17, 2015

RESUBMIT No Approved
 BY D Bonneau DATE 01/06/16

PROJECT No. IM 089-2(43)
 ITEM No. 506.55

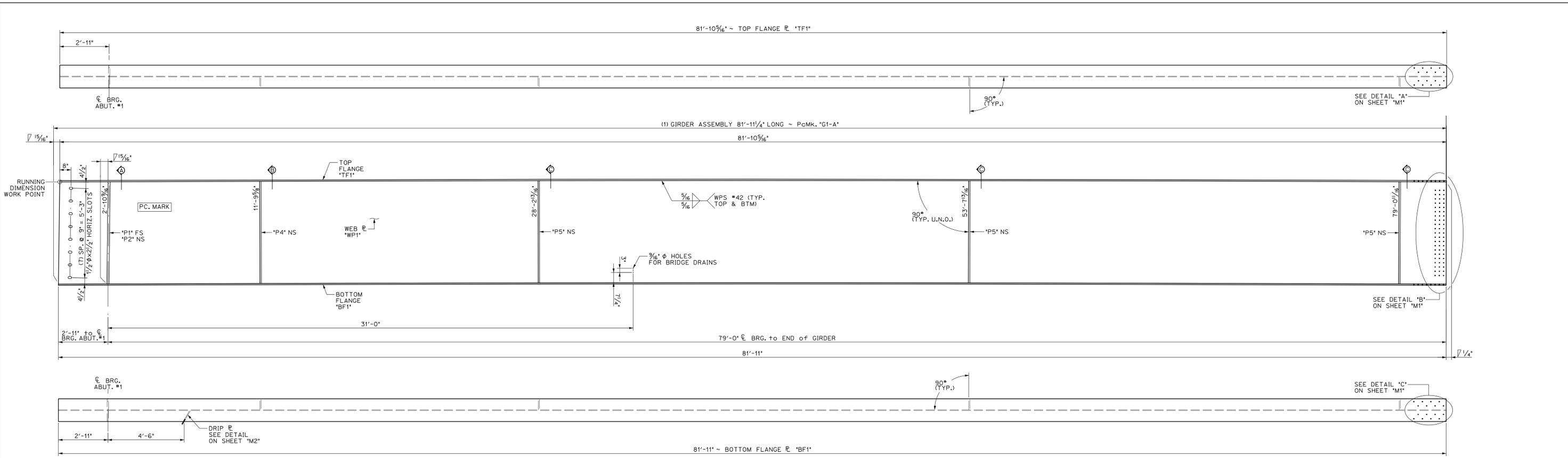
FINISH	N/A		
MATERIAL	SEE DETAIL SHEETS		
HOLES			
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP	1	2/17/15	DRAIN LOCATION & NOTES
	NO	DATE	DESCRIPTION
			BY

REVISIONS

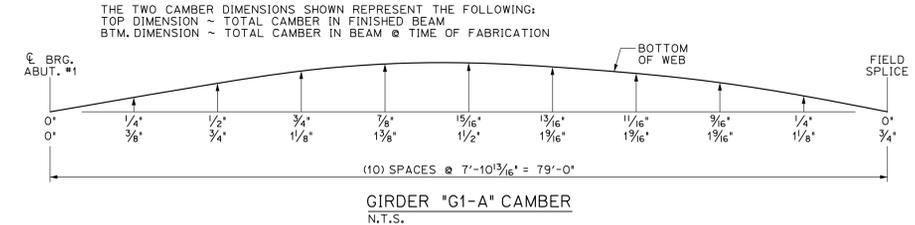
ARC ENTERPRISES, INC.

ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
 P.O. BOX 120 KINGFIELD, ME. 04947
 PHONE: (207) 265-2646 - FAX: (207) 265-4054

DRAFTER	JJH	FRAMING PLAN	PROJECT NO.
DATE	NOV. 2014	WATERBURY VT. BRIDGE 48A	14-148
CHECKED	DLM	I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO.
DATE	NOV. 2014	BECK & BELLUCCI	1

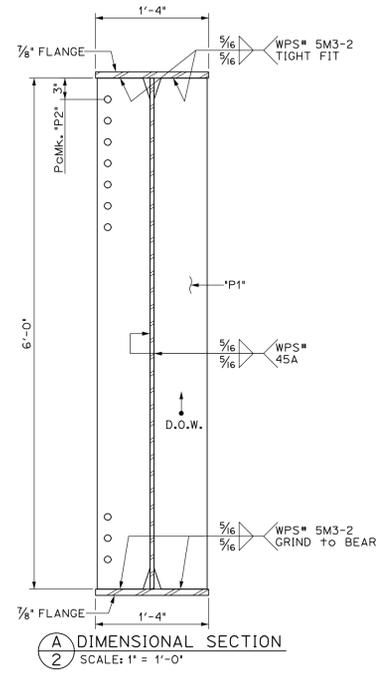


1 2 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G1-A"
SCALE: 3/8" = 1'-0"

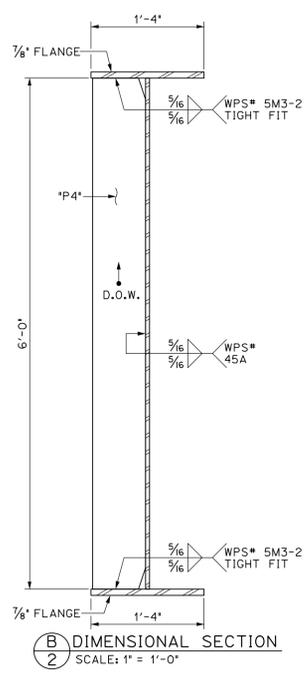


GIRDER "G1-A" CAMBER
N.T.S.

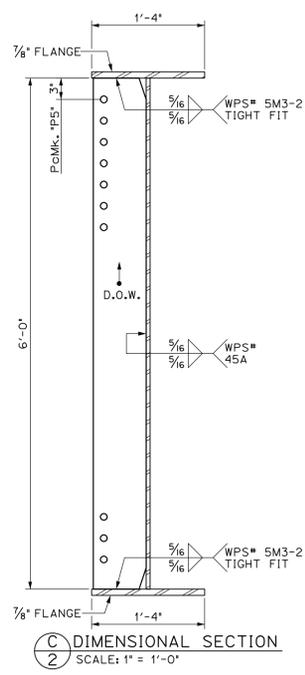
BILL OF MATERIALS							
SHIP MARK	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G1-A			BRIDGE GIRDER ASSEMBLY	81'-11 1/4"	19,800*	
		1	WP1	ℓ 3/16" x 72"	81'-11 1/4"	11,300*	CVN
		1	TF1	ℓ 7/8" x 16'	81'-10 5/16"	3,950*	CVN
		1	BF1	ℓ 7/8" x 16'	81'-11"	3,950*	CVN
		1	P1	SEE SHEET M2			
		1	P2	SEE SHEET M2			
		1	P4	SEE SHEET M2			
		3	P5	SEE SHEET M2			



A DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



B DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



C DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements.

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 6/6/18

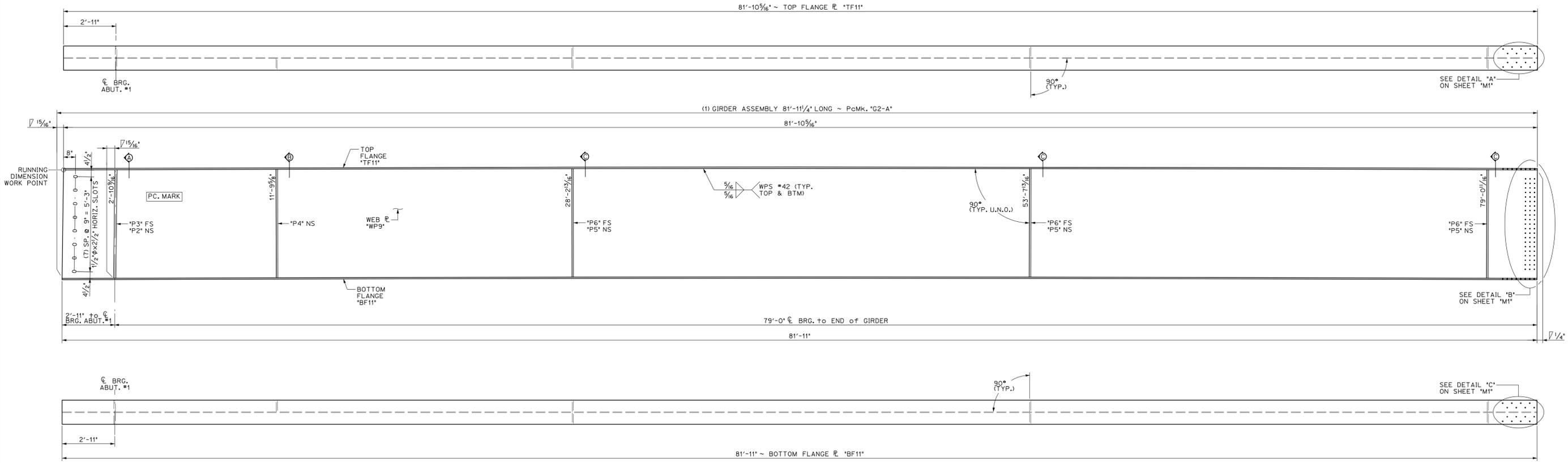
By: George Bogue

Stantec

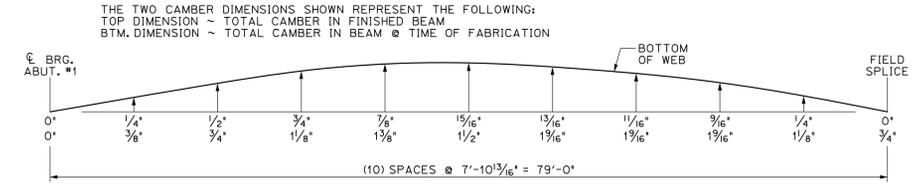
This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subcontractors.

Vermont Agency of Transportation
RECEIVED
CK'D BY Stantec OK'D BY D Bonneau
December 17, 2015
RESUBMIT No Approved
BY D Bonneau DATE 01/06/16

PROJECT No. IM 089-2(43) ITEM No. 506.55			
FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" Ø U.N.O.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP	SSPC SP6		
	NO	DATE	DESCRIPTION
REVISIONS			
ARC ENTERPRISES, INC.		ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED P.O. BOX 120 KINGFIELD, ME. 04947 PHONE: (207) 265-2646 - FAX: (207) 265-4054	
DRAFTER	JUH	GIRDER "G1-A"	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY VT. BRIDGE 48A	DWG. NO.
CHECKED	DLM	I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	2
DATE	NOV. 2014	CC: BECK & BELLUCCI	

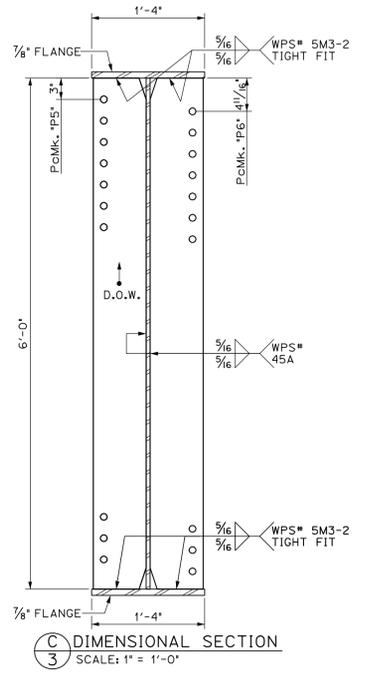
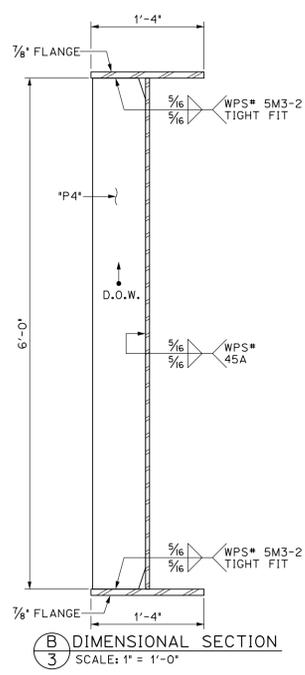
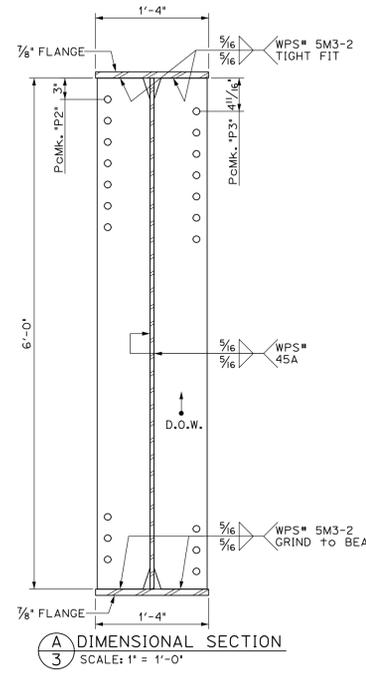


1
3 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G2-A"
SCALE: 3/8" = 1'-0"



GIRDER "G2-A" CAMBER
N.T.S.

BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G2-A			BRIDGE GIRDER ASSEMBLY	81'-11 1/4'	20,000#	
		1	WP9	R 3/8" x 72"	81'-11 1/4'	11,300#	CVN
		1	TF11	R 7/8" x 16'	81'-10 5/16'	3950#	CVN
		1	BF11	R 7/8" x 16'	81'-11'	3950#	CVN
		1	P2	SEE SHEET M2			
		1	P3	SEE SHEET M2			
		1	P4	SEE SHEET M2			
		3	P5	SEE SHEET M2			
		3	P6	SEE SHEET M2			



APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements.

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 6/6/16

By: George Bogue

This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subtrades.

PROJECT No. IM 089-2(43)
ITEM No. 506.55

FINISH	SSPC SP6
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W
HOLES	15/16" Ø U.N.O.
ELECTRODES	PER WELD PROCEDURE
WELDS	PER WELD PROCEDURE
SURFACE PREP	SSPC SP6

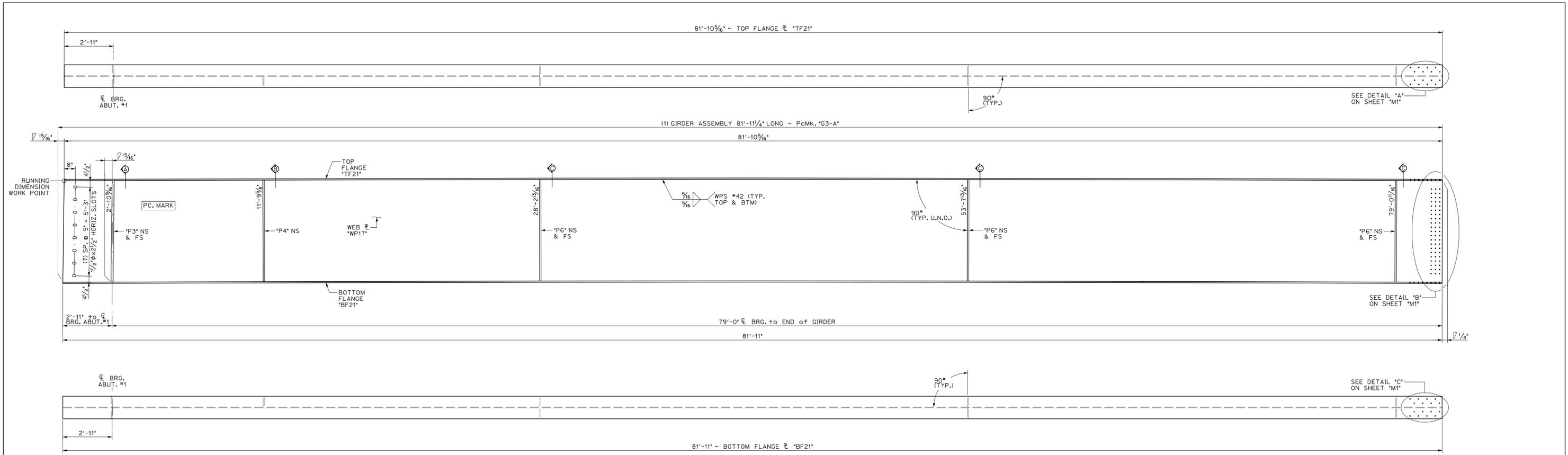
NO	DATE	DESCRIPTION	BY
REVISIONS			

ARC ENTERPRISES, INC.

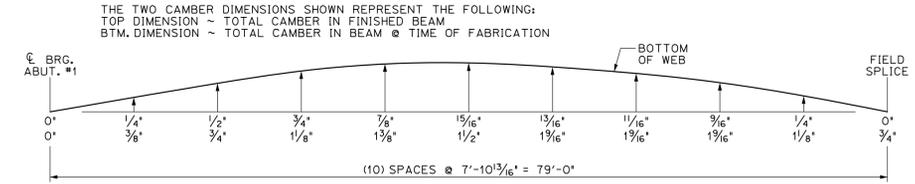
ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
P.O. BOX 120 KINGFIELD, ME. 04947
PHONE: (207) 265-2646 - FAX: (207) 265-4054

DRAFTER	JUH	GIRDER "G2-A"	PROJECT NO.
DATE	NOV. 2014	WATERBURY VT. BRIDGE 48A	14-148
CHECKED	DLM	I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO.
DATE	NOV. 2014	BECK & BELLUCCI	3

Vermont Agency of Transportation
RECEIVED
CK'D BY Stantec OK'D BY D Bonneau
December 17, 2015
RESUBMIT No Approved
By D Bonneau DATE 01/06/16

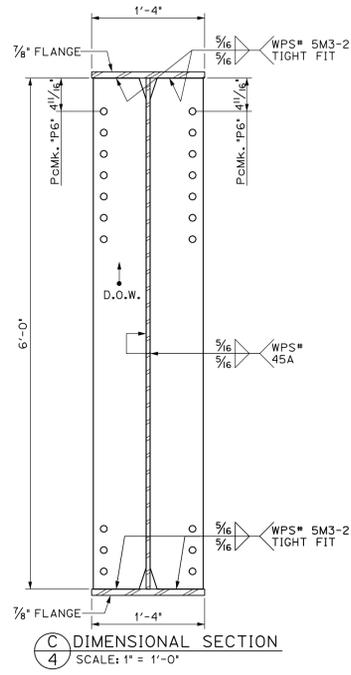
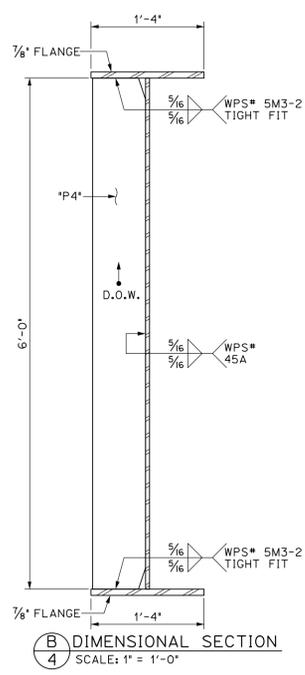
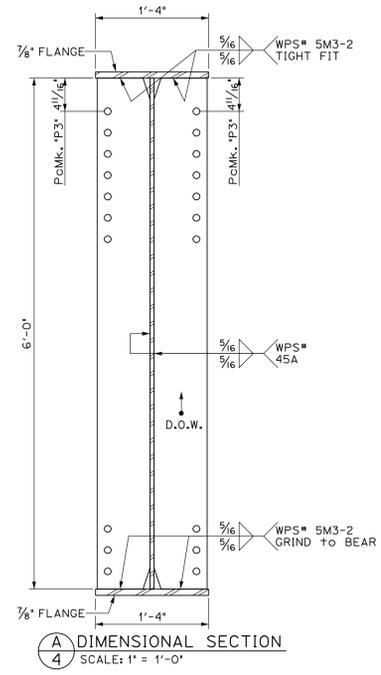


1
4 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G3-A"
SCALE: 3/8" = 1'-0"



GIRDER "G3-A" CAMBER
N.T.S.

BILL OF MATERIALS							
SHIP MARK	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G3-A			BRIDGE GIRDER ASSEMBLY	81'-11 1/4"	20,000#	
		1	WP17	R 3/8" x 72"	81'-11 1/4"	11,300#	CVN
		1	TF21	R 1/8" x 16"	81'-10 5/16"	3950#	CVN
		1	BF21	R 1/8" x 16"	81'-11"	3950#	CVN
		2	P3	SEE SHEET M2			
		1	P4	SEE SHEET M2			
		6	P6	SEE SHEET M2			



APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements.

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 6/6/16

By: George Bogue

This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subtrades.

Stantec

PROJECT No. IM 089-2(43)
ITEM No. 506.55

FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" Ø U.N.O.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP	SSPC SP6		

NO DATE DESCRIPTION BY

REVISIONS

ARC
ENTERPRISES, INC.

ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
P.O. BOX 120 KINGFIELD, ME. 04947
PHONE: (207) 265-2646 - FAX: (207) 265-4054

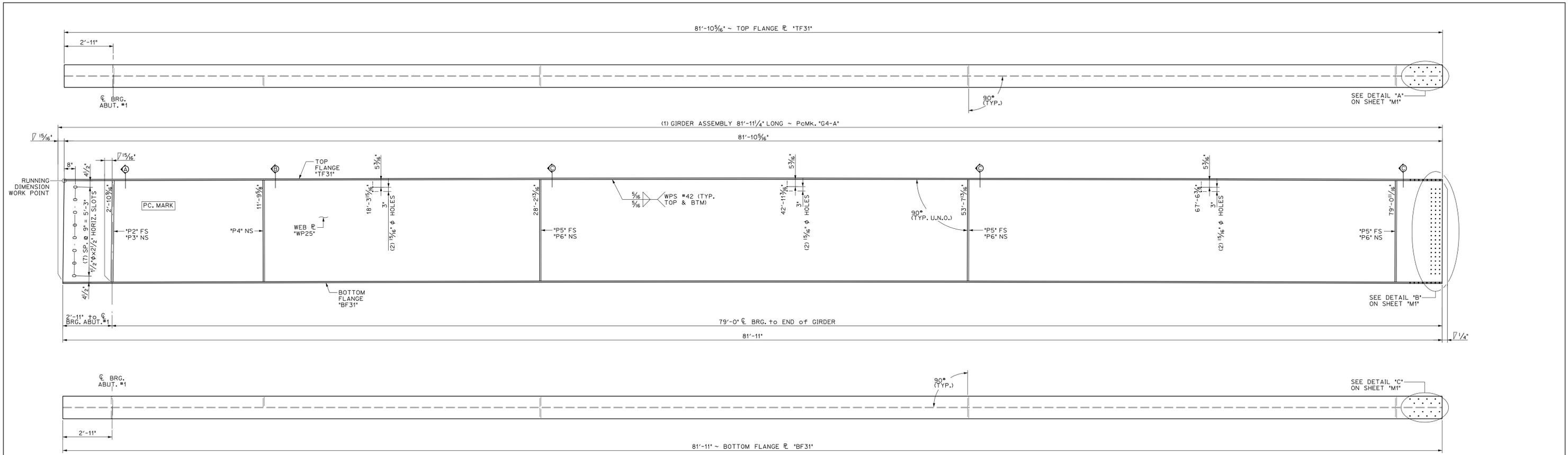
DRAFTER: JUH
DATE: NOV. 2014
CHECKED: DLM
DATE: NOV. 2014

GIRDER "G3-A"
WATERBURY VT. BRIDGE 48A
I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK

PROJECT NO. 14-148
DWG. NO. 4

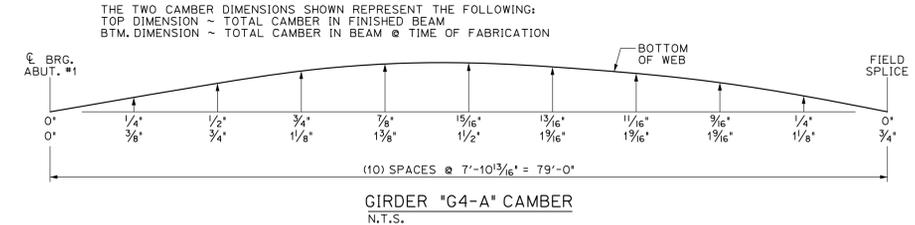
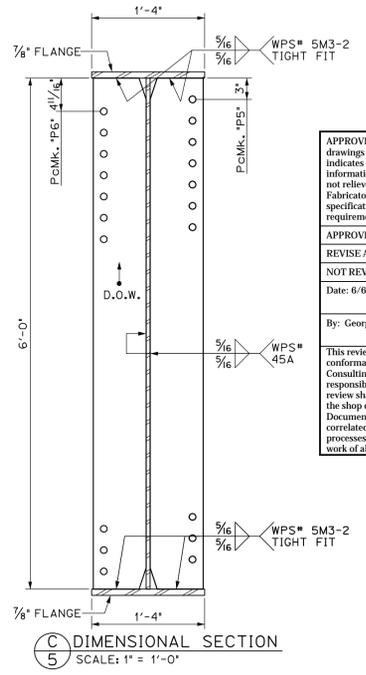
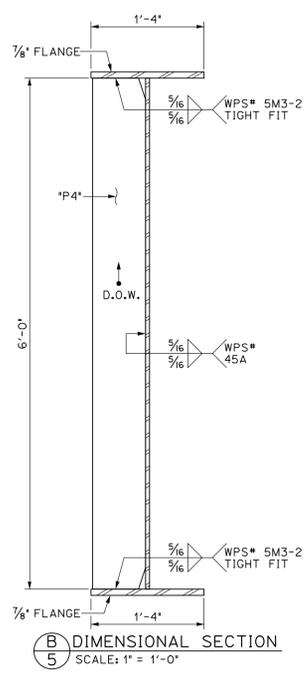
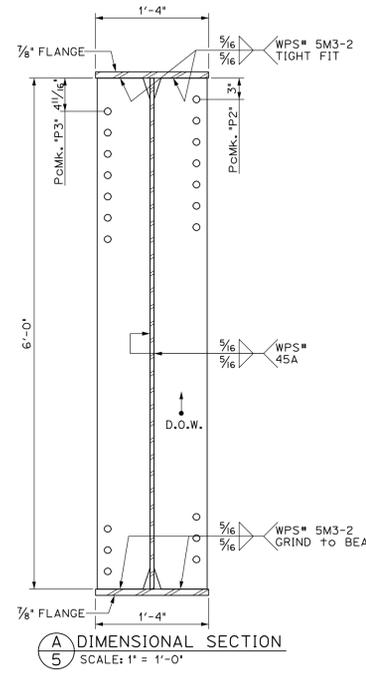
Beck & Bellucci

Vermont Agency of Transportation
RECEIVED
December 17, 2015
RESUBMIT No Approved
BY D Borneau DATE 01/06/16



1
5 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G4-A"
SCALE: 3/8" = 1'-0"

BILL OF MATERIALS							
SHIP MARK	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G4-A			BRIDGE GIRDER ASSEMBLY	81'-11 1/4'	20,000#	
		1	WP25	ℓ 3/8" x 72"	81'-11 1/4'	11,300#	CVN
		1	TF31	ℓ 1/8" x 16'	81'-10 5/16'	3,950#	CVN
		1	BF31	ℓ 1/8" x 16'	81'-11'	3,950#	CVN
		1	P2	SEE SHEET M2			
		1	P3	SEE SHEET M2			
		1	P4	SEE SHEET M2			
		3	P5	SEE SHEET M2			
		3	P6	SEE SHEET M2			



APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements.

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 6/6/16

By: George Bogue

This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subtrades.



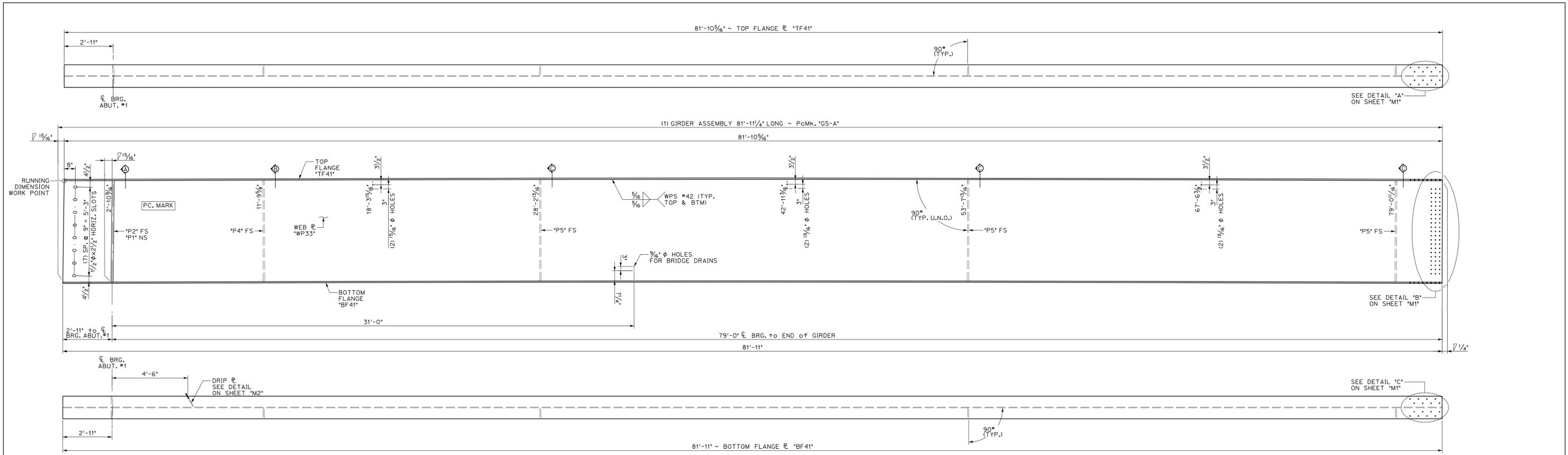
CK'D BY Stantec OK'D BY D.Bonneau
December 17, 2015
RESUBMIT No Approved
BY D.Bonneau DATE 01/06/16

PROJECT No. IM 089-2(43)
ITEM No. 506.55

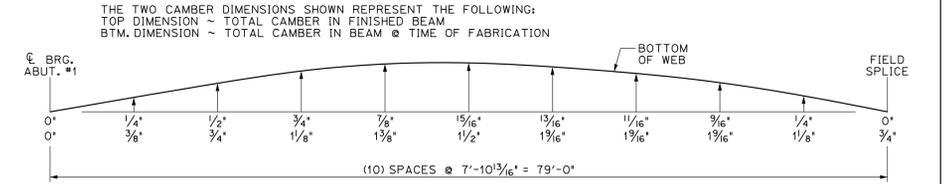
FINISH	SSPC SP6			
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W			
HOLES	15/16" Ø U.N.O.			
ELECTRODES	PER WELD PROCEDURE			
WELDS	PER WELD PROCEDURE			
SURFACE PREP	SSPC SP6			

NO	DATE	DESCRIPTION	BY
REVISIONS			

		ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED P.O. BOX 120 KINGFIELD, ME. 04947 PHONE: (207) 265-2646 - FAX: (207) 265-4054	
DRAFTER	JUH	GIRDER "G4-A"	PROJECT NO.
DATE	NOV. 2014	WATERBURY VT. BRIDGE 48A	14-148
CHECKED	DLM	I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO.
DATE	NOV. 2014	BY: BECK & BELLUCCI	5

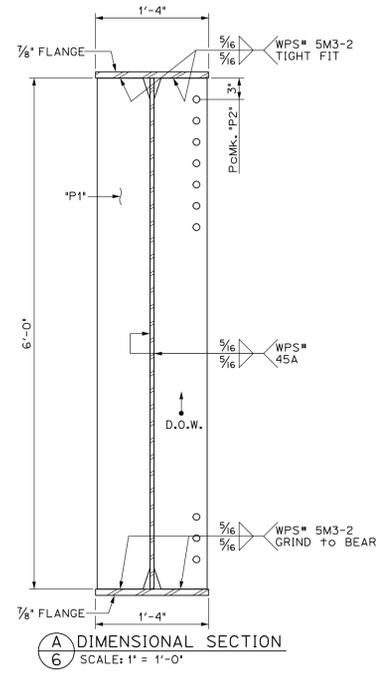


1
6 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G5-A"
SCALE: 3/8" = 1'-0"

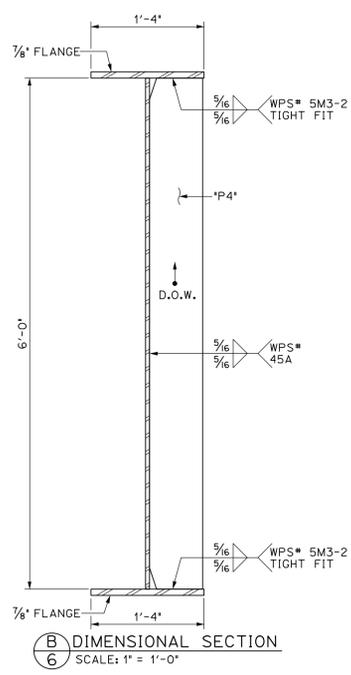


GIRDER "G5-A" CAMBER
N.T.S.

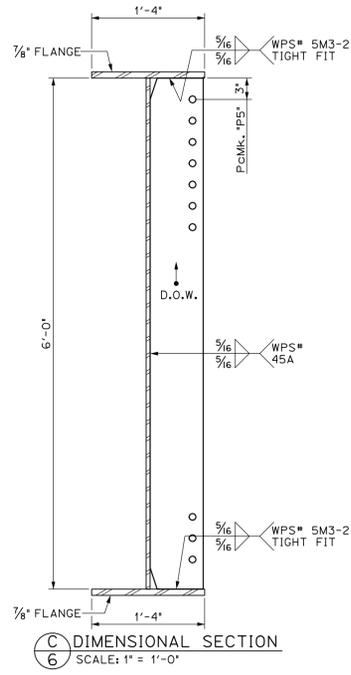
BILL OF MATERIALS							
SHIP MARK	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G5-A			BRIDGE GIRDER ASSEMBLY	81'-11 1/4"	19,800*	
		1	WP33	ℓ 3/8" x 72"	81'-11 1/4"	11,300*	CVN
		1	TF41	ℓ 1/8" x 16"	81'-10 5/16"	3,950*	CVN
		1	BF41	ℓ 1/8" x 16"	81'-11"	3,950*	CVN
		1	P1	SEE SHEET M2			
		1	P2	SEE SHEET M2			
		1	P4	SEE SHEET M2			
		3	P5	SEE SHEET M2			



A
6 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



B
6 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



C
6 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 6/6/16

By: George Bogue

This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication process or to techniques of construction and installation and for coordination of the work of all subtrades.

Stantec

Vermont Agency of Transportation
RECEIVED
December 17, 2015

PROJECT No. IM 089-2(43)
ITEM No. 506.55

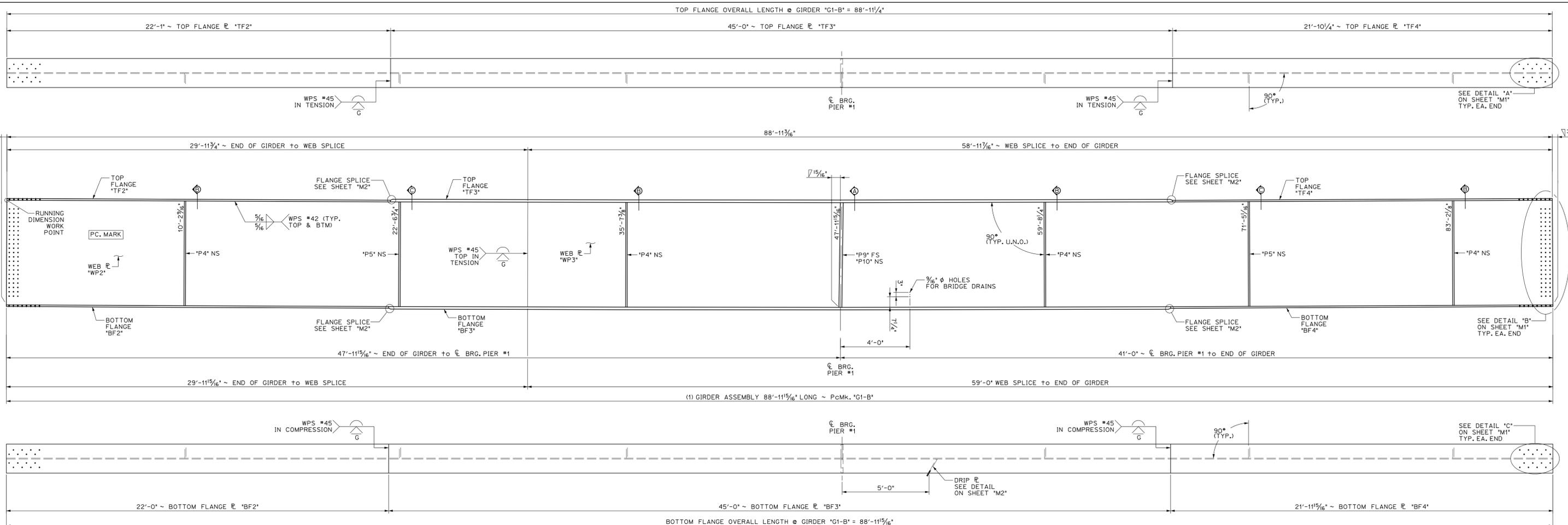
FINISH	SSPC SP6
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W
HOLES	15/16" Ø U.N.O.
ELECTRODES	PER WELD PROCEDURE
WELDS	PER WELD PROCEDURE
SURFACE PREP	SSPC SP6

NO	DATE	DESCRIPTION	BY
REVISIONS			

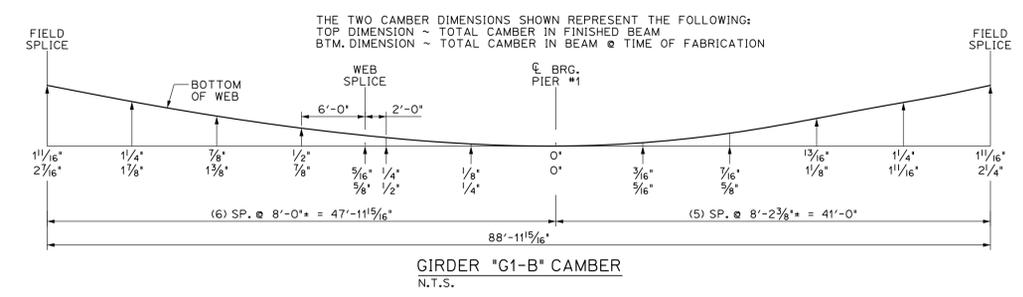
ARC
ENTERPRISES, INC.

ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
P.O. BOX 120 KINGFIELD, ME. 04947
PHONE: (207) 265-2646 - FAX: (207) 265-4054

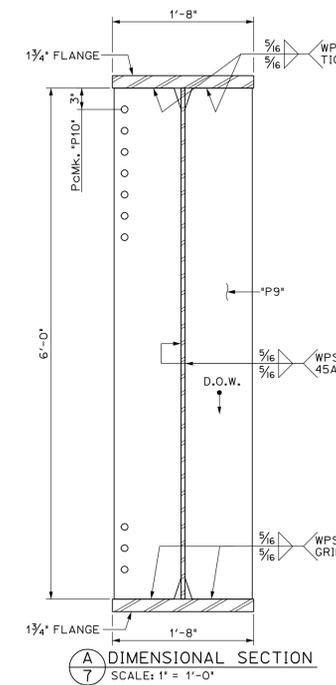
DRAFTER	JUH	GIRDER "G5-A"	PROJECT NO.	14-148
DATE	NOV. 2014	WATERBURY VT. BRIDGE 48A	DWG. NO.	6
CHECKED	DLM	I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK		
DATE	NOV. 2014	BY: BECK & BELLUCCI		



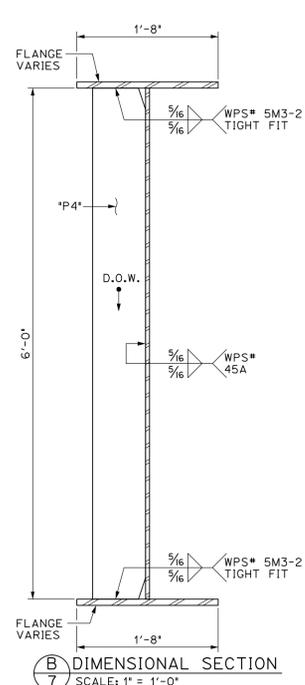
1 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G1-B"
SCALE: 3/8" = 1'-0"



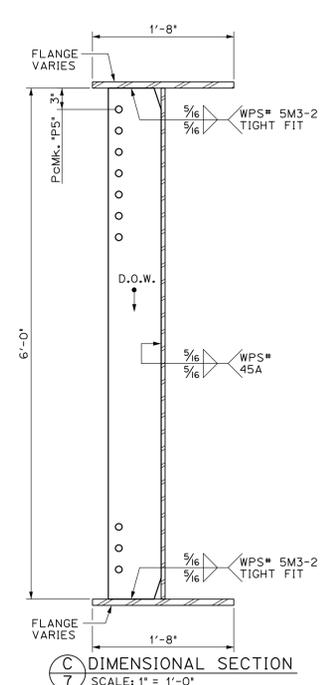
BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G1-B			BRIDGE GIRDER ASSEMBLY	88'-11 1/16"	31,000#	
		1	WP2	PL 3/8" x 72'	29'-11 1/16"	4150#	CVN
		1	WP3	PL 3/8" x 72'	59'-0"	8150#	CVN
		1	TF2	PL 1 1/8" x 20"	22'-1"	1725#	CVN
		1	TF3	PL 1 3/4" x 20"	45'-0"	5400#	CVN
		1	TF4	PL 1 1/8" x 20"	21'-10 1/4"	1725#	CVN
		1	BF2	PL 1 1/8" x 20"	22'-0"	1725#	CVN
		1	BF3	PL 1 3/4" x 20"	45'-0"	5400#	CVN
		1	BF4	PL 1 1/8" x 20"	21'-11 1/16"	1725#	CVN
		4	P4	SEE SHEET M2			
		2	P5	SEE SHEET M2			
		1	P9	SEE SHEET M2			
		1	P10	SEE SHEET M2			



A DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



B DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



C DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements.	X
APPROVED AS NOTED	
REVISE AND RESUBMIT	
NOT REVIEWED	
Date: 6/6/16	
By: George Bogue	
<small>This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subcontractors.</small>	

Vermont Agency of Transportation
RECEIVED
CK'D BY Stantec OK'D BY D Bonnaeu
December 17, 2015
RESUBMIT No Approved
BY D Bonnaeu DATE 01/06/16

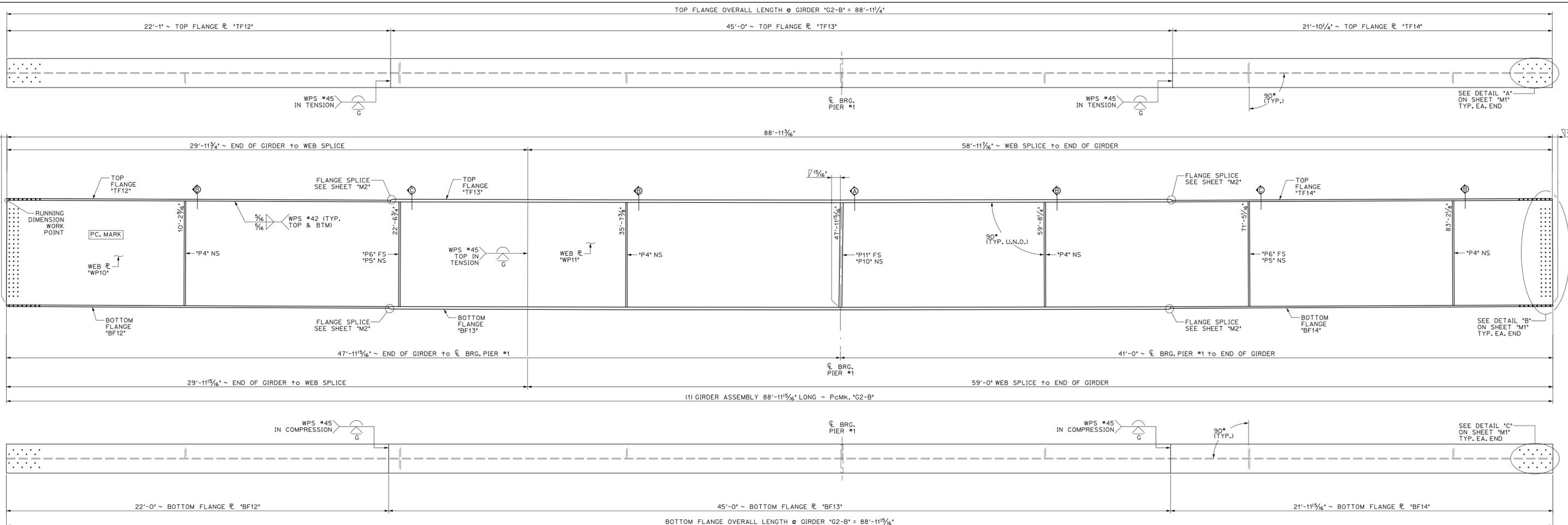
PROJECT No. IM 089-2(43)
ITEM No. 506.55

FINISH	SSPC SP6
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W
HOLES	15/16" Ø U.N.O.
ELECTRODES	PER WELD PROCEDURE
WELDS	PER WELD PROCEDURE
SURFACE PREP	SSPC SP6

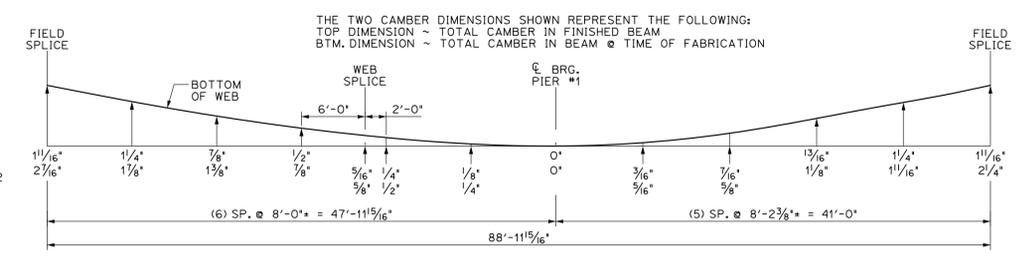
NO	DATE	DESCRIPTION	BY
REVISIONS			

ARC ENTERPRISES, INC.
ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
P.O. BOX 120 KINGFIELD, ME, 04947
PHONE: (207) 265-2646 - FAX: (207) 265-4054

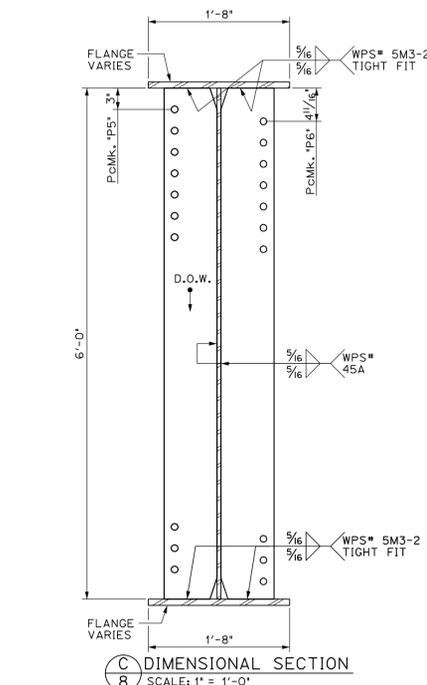
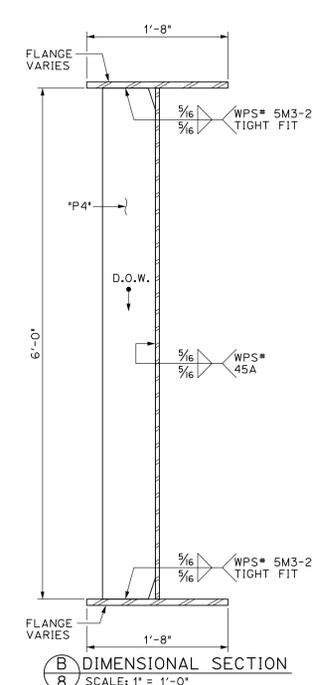
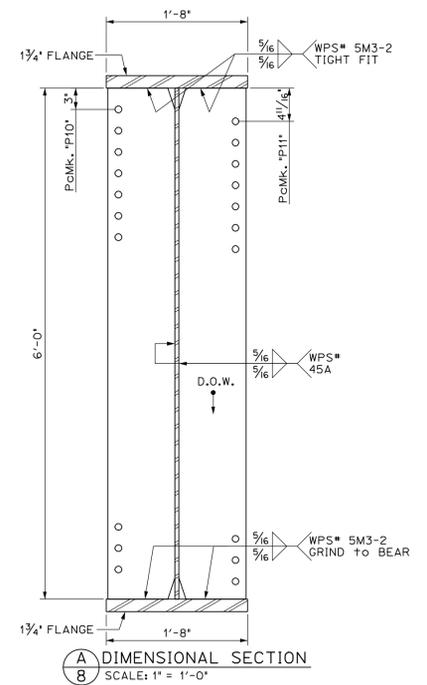
DRAFTER	JJH	GIRDER "G1-B"	PROJECT NO.	14-148
DATE	NOV. 2014	WATERBURY VT. BRIDGE 46A	DWG. NO.	7
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK		
DATE	NOV. 2014	BECK & BELLUCCI		



1 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G2-B"
 8 SCALE: 3/8" = 1'-0"



BILL OF MATERIALS							
SHIP MARK	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G2-B			BRIDGE GIRDER ASSEMBLY	88'-11 5/16"	31,200#	
		1	WP10	ℓ 3/8" x 72'	29'-11 5/16"	4150#	CVN
		1	WP11	ℓ 3/8" x 72'	59'-0"	8150#	CVN
		1	TF12	ℓ 1 1/8" x 20'	22'-1"	1725#	CVN
		1	TF13	ℓ 1 3/4" x 20'	45'-0"	5400#	CVN
		1	TF14	ℓ 1 1/8" x 20'	21'-10 1/4"	1725#	CVN
		1	BF12	ℓ 1 1/8" x 20'	22'-0"	1725#	CVN
		1	BF13	ℓ 1 3/4" x 20'	45'-0"	5400#	CVN
		1	BF14	ℓ 1 1/8" x 20'	21'-11 5/16"	1725#	CVN
		4	P4	SEE SHEET M2			
		2	P5	SEE SHEET M2			
		2	P6	SEE SHEET M2			
		1	P10	SEE SHEET M2			
		1	P11	SEE SHEET M2			



APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements.

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 6/6/16

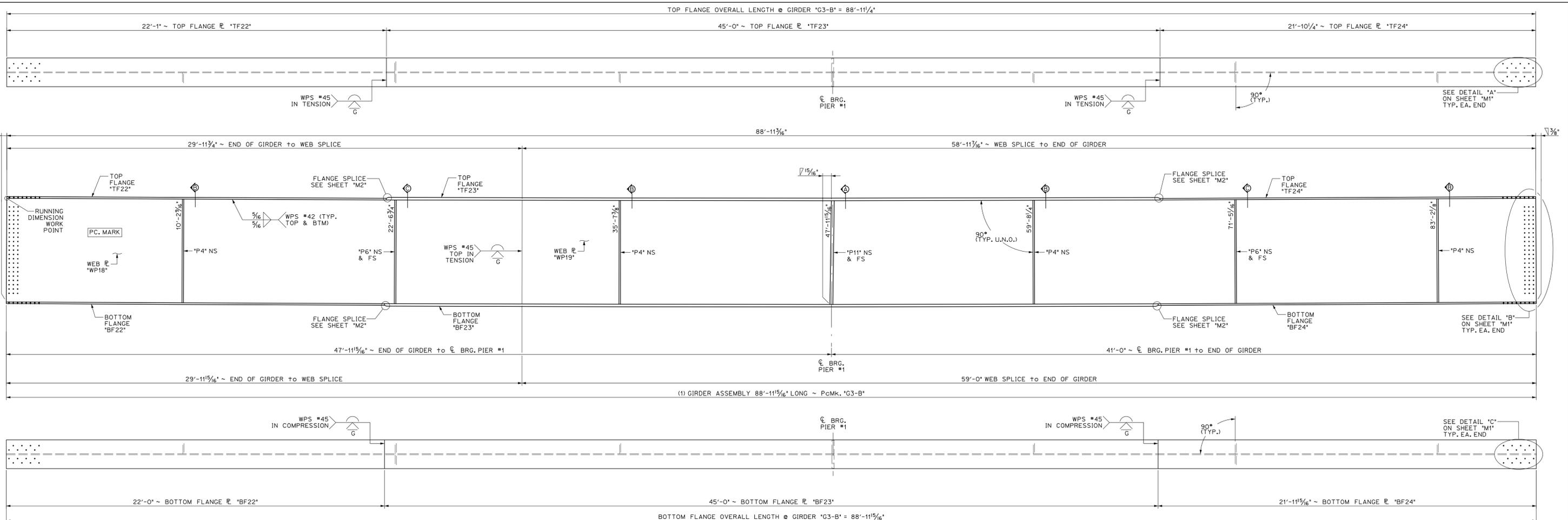
By: George Bogue

This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication process or to techniques of construction and installation and for coordination of the work of all subtrades.

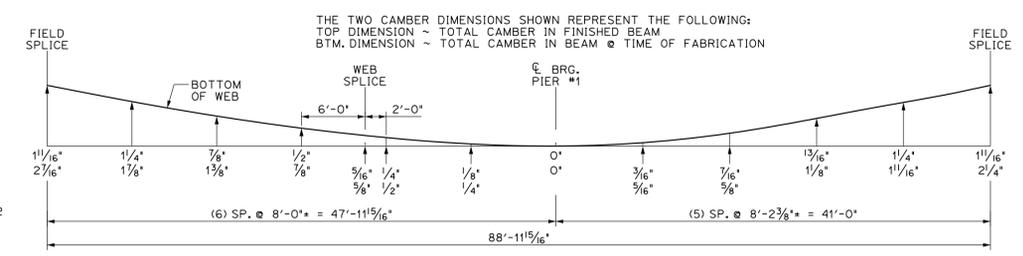


Vermont Agency of Transportation
RECEIVED
 CK'D BY Stantec OK'D BY D Bonneau
 December 17, 2015
 RESUBMIT No Approved
 BY D Bonneau DATE 01/06/16

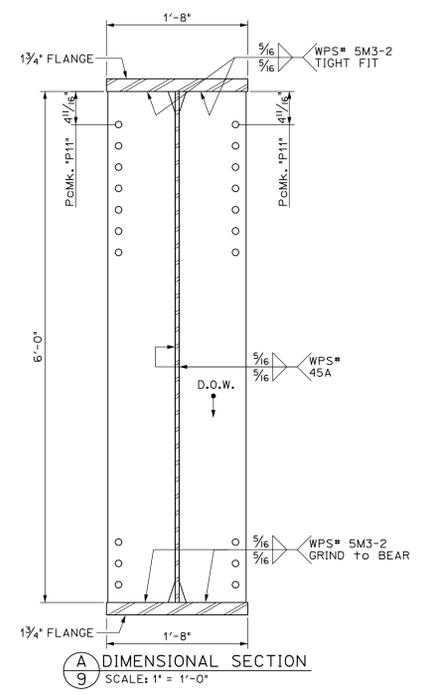
PROJECT No. IM 089-2(43) ITEM No. 506.55			
FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" Ø U.N.D.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP	SSPC SP6		
		NO	DATE
			DESCRIPTION
			BY
REVISIONS			
		ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED P.O. BOX 120 KINGFIELD, ME. 04947 PHONE: (207) 265-2646 - FAX: (207) 265-4054	
DRAFTER	JJH	GIRDER "G2-B"	PROJECT NO.
DATE	NOV. 2014	WATERBURY VT. BRIDGE 46A	14-148
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO.
DATE	NOV. 2014	BECK & BELLUCCI	8



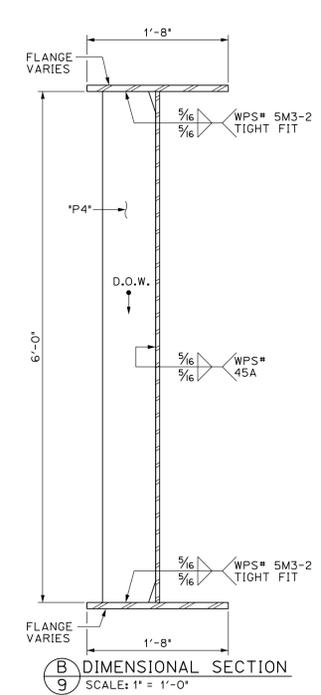
1 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G3-B"
 9 SCALE: 3/8" = 1'-0"



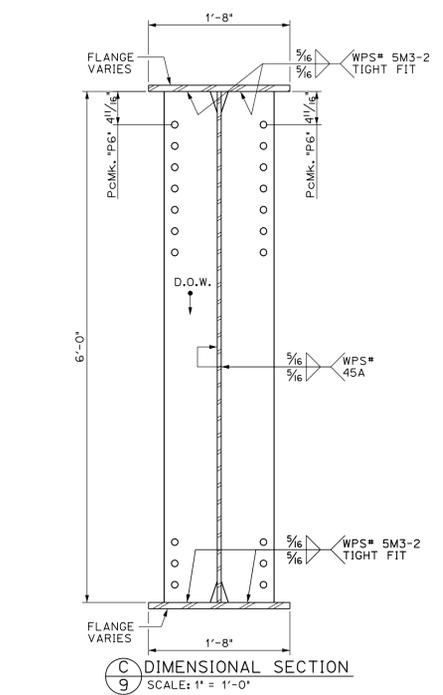
BILL OF MATERIALS						
SHIP MARK	SHIP NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G3-B		BRIDGE GIRDER ASSEMBLY	88'-11 1/2"	31,200#	
		1	WP18	ℓ 3/8" x 72'	4150#	CVN
		1	WP19	ℓ 3/8" x 72'	8150#	CVN
		1	TF22	ℓ 1/8" x 20'	1725#	CVN
		1	TF23	ℓ 1 1/4" x 20'	5400#	CVN
		1	TF24	ℓ 1 1/4" x 20'	1725#	CVN
		1	BF22	ℓ 1/8" x 20'	1725#	CVN
		1	BF23	ℓ 1 1/4" x 20'	5400#	CVN
		1	BF24	ℓ 1/8" x 20'	1725#	CVN
		4	P4	SEE SHEET M2		
		4	P6	SEE SHEET M2		
		2	P11	SEE SHEET M2		



A DIMENSIONAL SECTION
 9 SCALE: 1" = 1'-0"



B DIMENSIONAL SECTION
 9 SCALE: 1" = 1'-0"



C DIMENSIONAL SECTION
 9 SCALE: 1" = 1'-0"

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements.

APPROVED AS NOTED
 REVISE AND RESUBMIT
 NOT REVIEWED

Date: 6/6/16

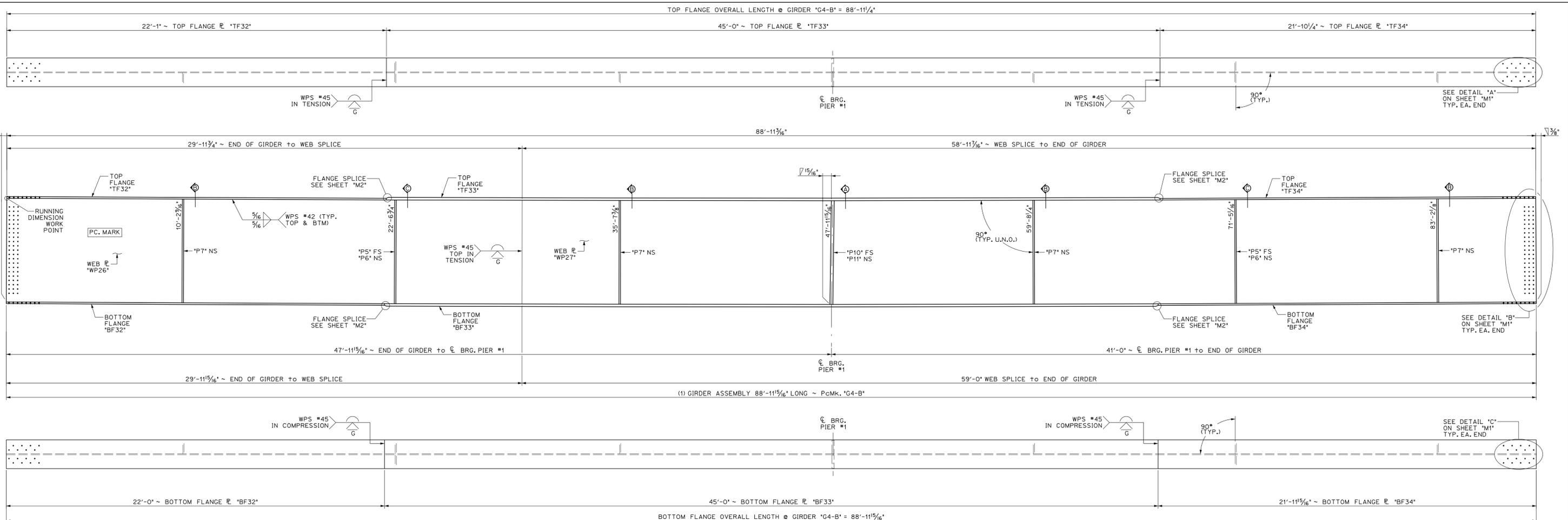
By: George Bogue

This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subcontractors.

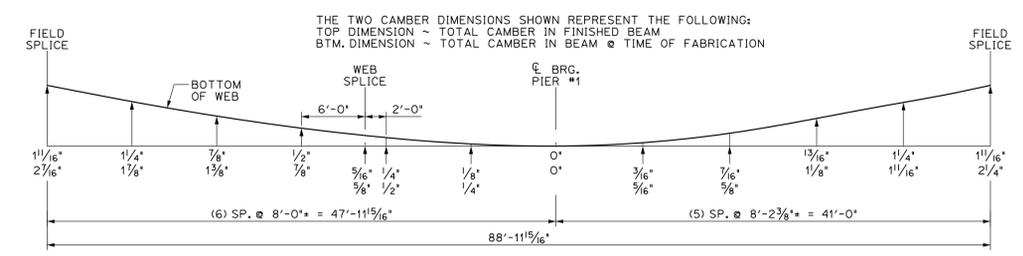


Vermont Agency of Transportation
RECEIVED
 CK'D BY Stantec OK'D BY D Bonneau
 December 17, 2015
 RESUBMIT No Approved
 BY D Bonneau DATE 01/08/16

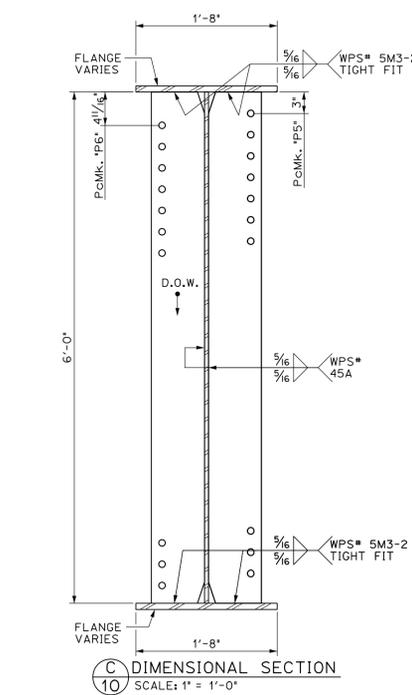
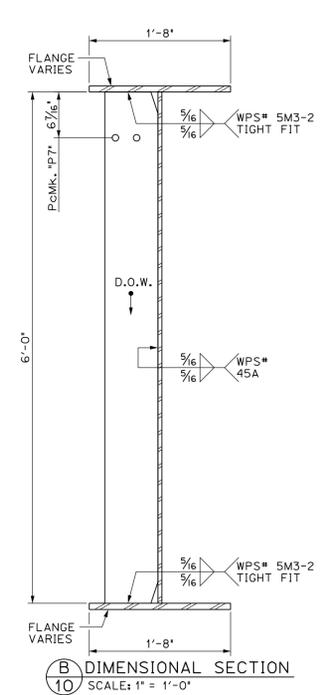
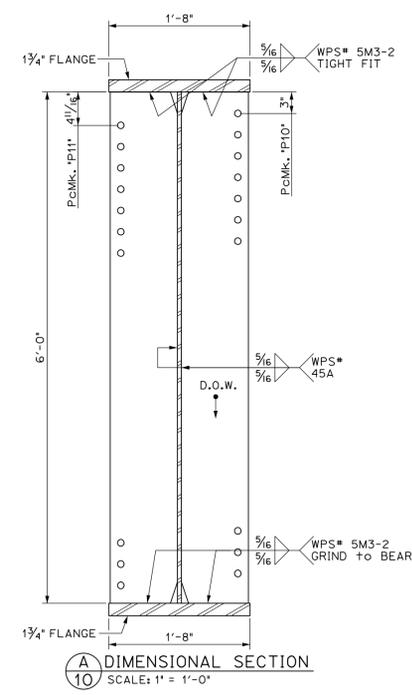
PROJECT No. IM 089-2(43) ITEM No. 506.55			
FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" Ø U.N.D.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP	SSPC SP6		
NO DATE DESCRIPTION BY			
REVISIONS			
ARC ENTERPRISES, INC.		ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED	
P.O. BOX 120 KINGFIELD, ME, 04947		PHONE: (207) 265-2646 - FAX: (207) 265-4054	
DRAFTER	JJH	GIRDER "G3-B"	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY VT. BRIDGE 46A	DWG. NO.
CHECKED	DLM	1-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	9
DATE	NOV. 2014	BECK & BELLUCCI	



1 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G4-B"
 10 SCALE: 3/8" = 1'-0"



BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G4-B			BRIDGE GIRDER ASSEMBLY	88'-11 5/8"	31,200#	
		1	WP26	ℓ 3/8" x 72'	29'-11 5/8"	4150#	CVN
		1	WP27	ℓ 3/8" x 72'	59'-0"	8150#	CVN
		1	TF32	ℓ 1/8" x 20"	22'-1"	1725#	CVN
		1	TF33	ℓ 1 3/4" x 20"	45'-0"	5400#	CVN
		1	TF34	ℓ 1 1/8" x 20"	21'-10 1/4"	1725#	CVN
		1	BF32	ℓ 1/8" x 20"	22'-0"	1725#	CVN
		1	BF33	ℓ 1 3/4" x 20"	45'-0"	5400#	CVN
		1	BF34	ℓ 1 1/8" x 20"	21'-11 5/8"	1725#	CVN
		2	P5	SEE SHEET M2			
		2	P6	SEE SHEET M2			
		4	P7	SEE SHEET M2			
		1	P10	SEE SHEET M2			
		1	P11	SEE SHEET M2			



APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 6/6/16

By: George Bogue

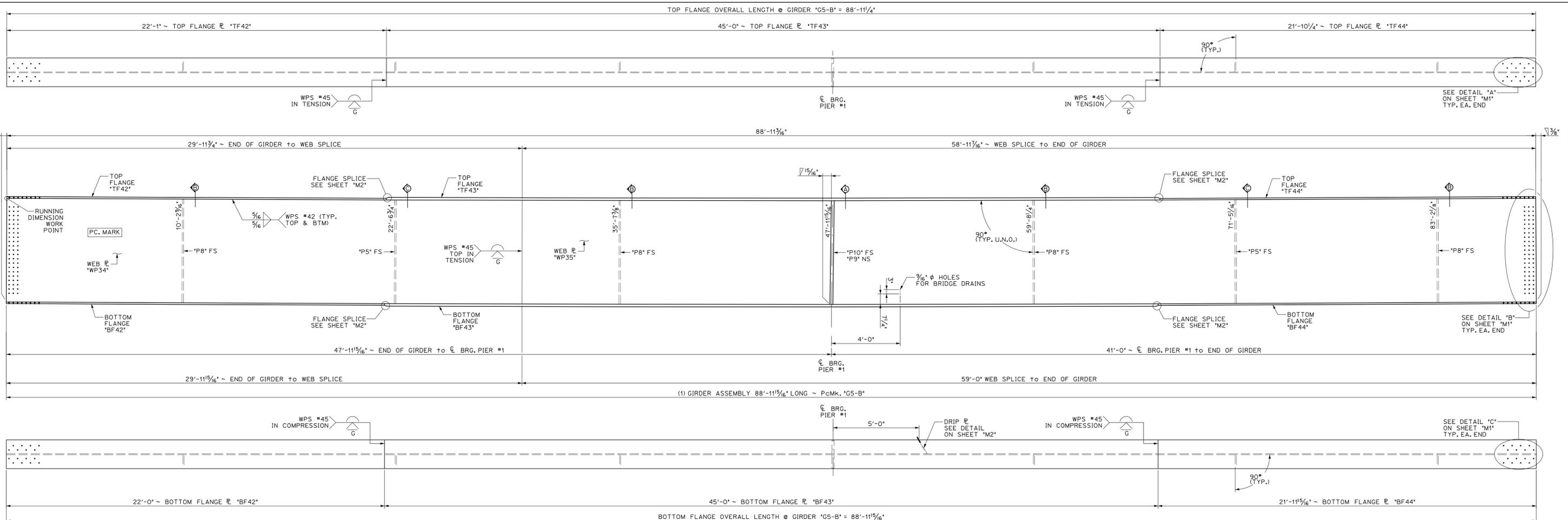
This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subtrades.



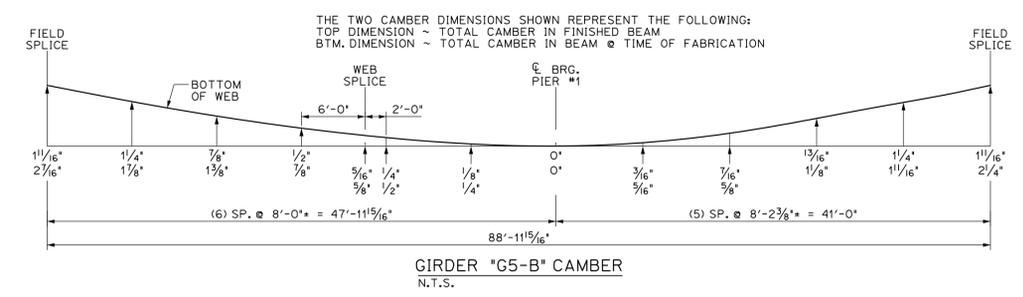
Vermont Agency of Transportation
RECEIVED

CK'D BY Stantec OK'D BY D Borneau
 December 17, 2015
 RESUBMIT No Approved
 BY D Borneau DATE 01/06/16

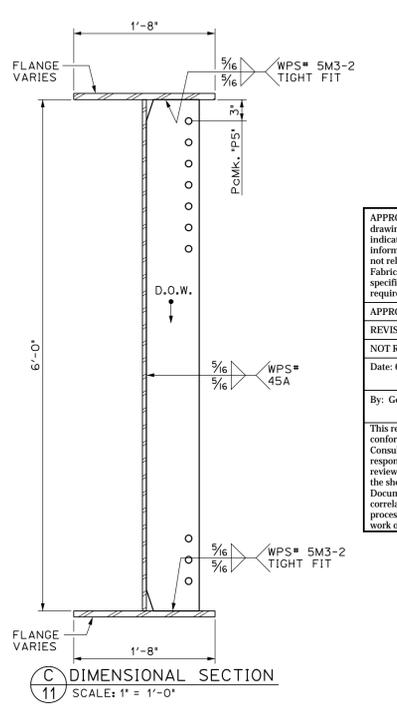
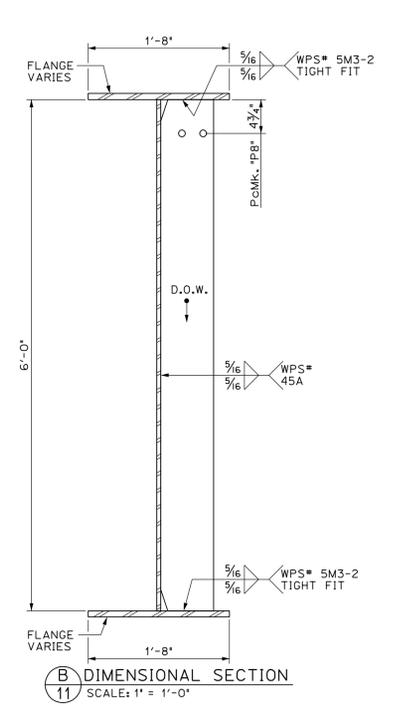
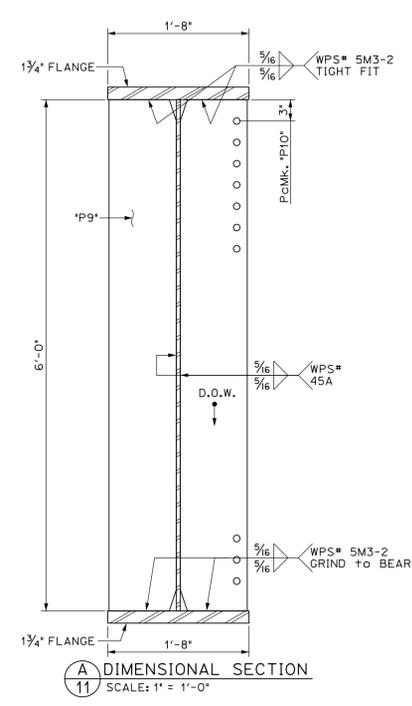
PROJECT No. IM 089-2(43) ITEM No. 506.55			
FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" Ø U.N.D.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP	SSPC SP6		
		NO	DATE
		DESCRIPTION	
		BY	
REVISIONS			
		ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED P.O. BOX 120 KINGFIELD, ME, 04947 PHONE: (207) 265-2646 - FAX: (207) 265-4054	
DRAFTER	JJH	GIRDER "G4-B"	PROJECT NO.
DATE	NOV. 2014	WATERBURY VT. BRIDGE 46A	14-148
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO.
DATE	NOV. 2014	BECK & BELLUCCI	10



1 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER 'G5-B'
 11 SCALE: 3/8" = 1'-0"



BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G5-B			BRIDGE GIRDER ASSEMBLY	88'-11 5/16"	31,000#	
		1	WP34	ℓ 3/16" x 72'	29'-11 5/16"	4150#	CVN
		1	WP35	ℓ 3/16" x 72'	59'-0"	8150#	CVN
		1	TF42	ℓ 1 1/8" x 20"	22'-1"	1725#	CVN
		1	TF43	ℓ 1 3/4" x 20"	45'-0"	5400#	CVN
		1	TF44	ℓ 1 1/8" x 20"	21'-10 1/4"	1725#	CVN
		1	BF42	ℓ 1 1/8" x 20"	22'-0"	1725#	CVN
		1	BF43	ℓ 1 3/4" x 20"	45'-0"	5400#	CVN
		1	BF44	ℓ 1 1/8" x 20"	21'-11 5/16"	1725#	CVN
		2	P5	SEE SHEET M2			
		4	P8	SEE SHEET M2			
		1	P9	SEE SHEET M2			
		1	P10	SEE SHEET M2			



APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

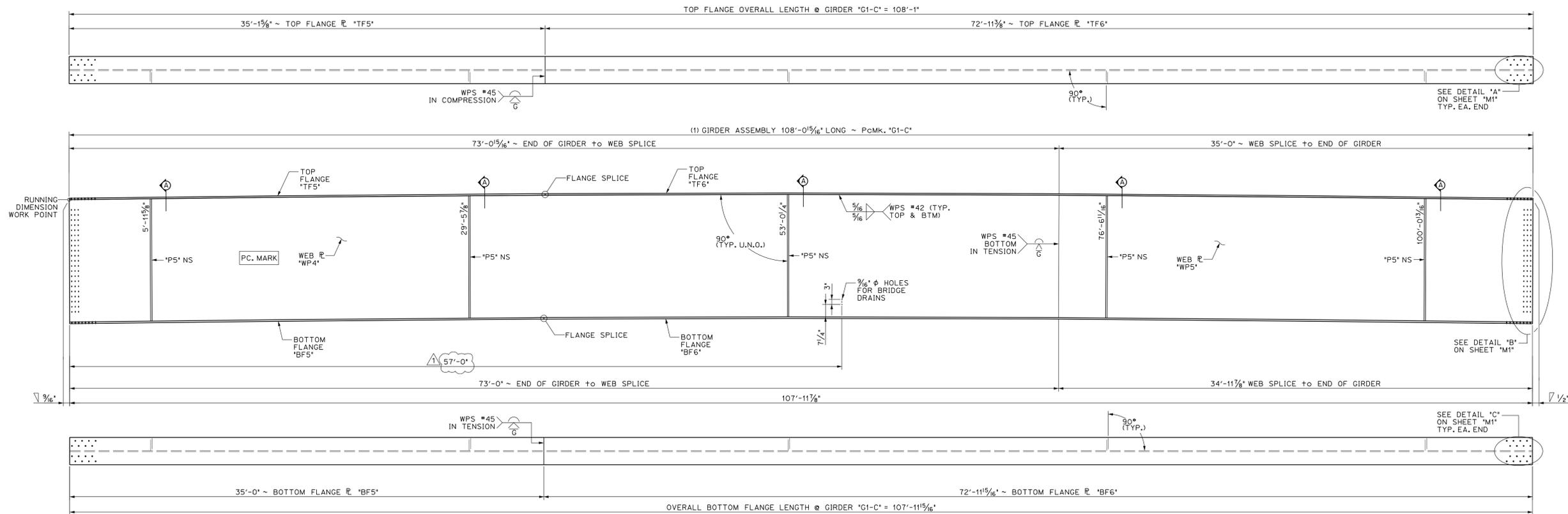
Date: 6/6/16

By: George Bogue

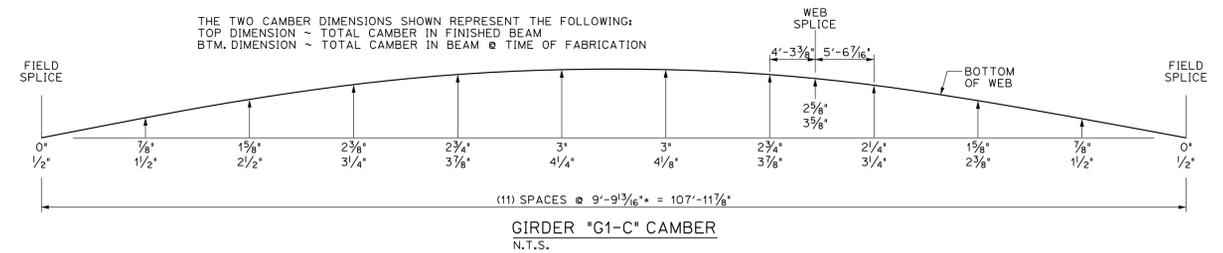
This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subcontractors.

Vermont Agency of Transportation
RECEIVED
 CK'D BY Stantec OK'D BY D.Bonneau
 December 17, 2015
 RESUBMIT No Approved
 BY D.Bonneau DATE 01/06/16

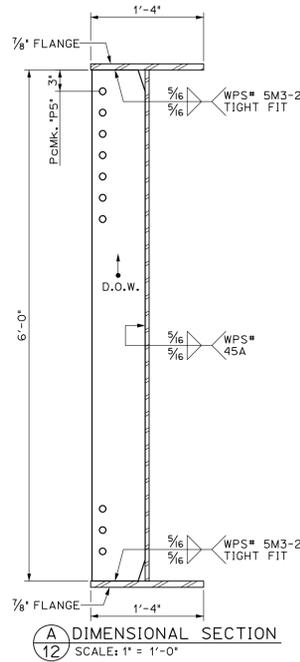
PROJECT No. IM 089-2(43) ITEM No. 506.55			
FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" Ø U.N.O.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP	SSPC SP6		
REVISIONS			
NO	DATE	DESCRIPTION	BY
ARC ENTERPRISES, INC.			
ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED			
P.O. BOX 120 KINGFIELD, ME. 04947			
PHONE: (207) 265-2646 - FAX: (207) 265-4054			
DRAFTER	JJH	GIRDER 'G5-B'	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY VT. BRIDGE 46A	DWG. NO.
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
DATE	NOV. 2014	BECK & BELLUCCI	11



12 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G1-C"
 HORIZONTAL SCALE: 1/4" = 1'-0"
 VERTICAL SCALE EXAGGERATED 1.5:1



BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G1-C			BRIDGE GIRDER ASSEMBLY	108'-0 1/8"	25,750*	
		1	WP4	PL 3/8" x 72'	73'-1'	10,100*	CVN
		1	WP5	PL 3/8" x 72'	35'-0"	4850*	CVN
		1	TF5	PL 7/8" x 16'	35'-1 5/8"	1700*	CVN
		1	TF6	PL 7/8" x 16'	72'-11 3/8"	3500*	CVN
		1	BF5	PL 7/8" x 16'	35'-0"	1700*	CVN
		1	BF6	PL 7/8" x 16'	72'-11 5/8"	3500*	CVN
		5	P5	SEE SHEET M2			

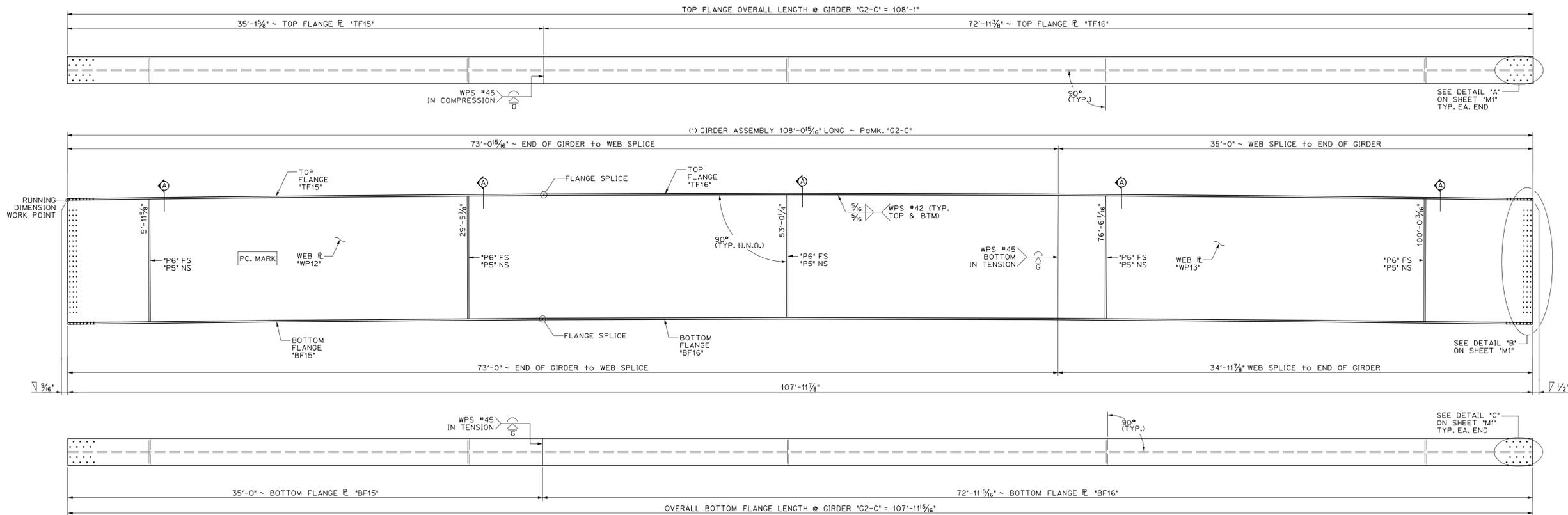


A DIMENSIONAL SECTION
 SCALE: 1" = 1'-0"

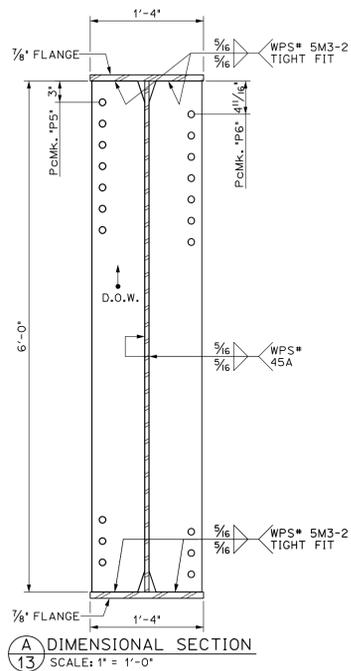
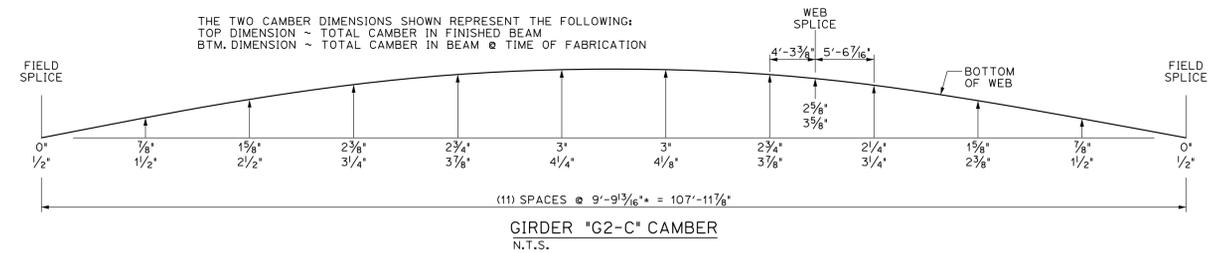
APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements.	X
APPROVED AS NOTED	
REVISE AND RESUBMIT	
NOT REVIEWED	
Date: 6/6/16	
By: George Bogue	
<small>This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all trades.</small>	

Vermont Agency of Transportation
RECEIVED
 CK'D BY Stantec OK'D BY D. Bonneau
 December 17, 2015
 RESUBMIT No Approved
 BY D. Bonneau DATE 01/06/16

PROJECT No. IM 089-2(43) ITEM No. 506.55			
FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" Ø U.N.D.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP	SSPC SP6	1	2/17/15 DRAIN HOLE LOCATION JH
		NO	DATE DESCRIPTION BY
REVISIONS			
		ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED P.O. BOX 120 KINGFIELD, ME, 04947 PHONE: (207) 265-2646 - FAX: (207) 265-4054	
DRAFTER	JH	GIRDER "G1-C"	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A	DWG. NO. 12
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
DATE	NOV. 2014	BECK & BELLUCCI	



13 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G2-C"
 HORIZONTAL SCALE: 1/4" = 1'-0"
 VERTICAL SCALE EXAGGERATED 1.5:1



A DIMENSIONAL SECTION
 SCALE: 1" = 1'-0"

BILL OF MATERIALS

SHIP MARK	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G2-C			BRIDGE GIRDER ASSEMBLY	108'-0 1/8"	26,150#	
		1	WP12	R 3/8" x 72'	73'-1'	10,100#	CVN
		1	WP13	R 3/8" x 72'	35'-0"	4850#	CVN
		1	TF15	R 7/8" x 16'	35'-1 1/8"	1700#	CVN
		1	TF16	R 7/8" x 16'	72'-11 3/8"	3500#	CVN
		1	BF15	R 7/8" x 16'	35'-0"	1700#	CVN
		1	BF16	R 7/8" x 16'	72'-11 1/8"	3500#	CVN
		5	P5	SEE SHEET M2			
		5	P6	SEE SHEET M2			

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements.

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 6/6/16

By: George Bogue

This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subtrades.

PROJECT No. IM 089-2(43)
 ITEM No. 506.55

FINISH	SSPC SP6
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W
HOLES	15/16" Ø U.N.D.
ELECTRODES	PER WELD PROCEDURE
WELDS	PER WELD PROCEDURE
SURFACE PREP	SSPC SP6

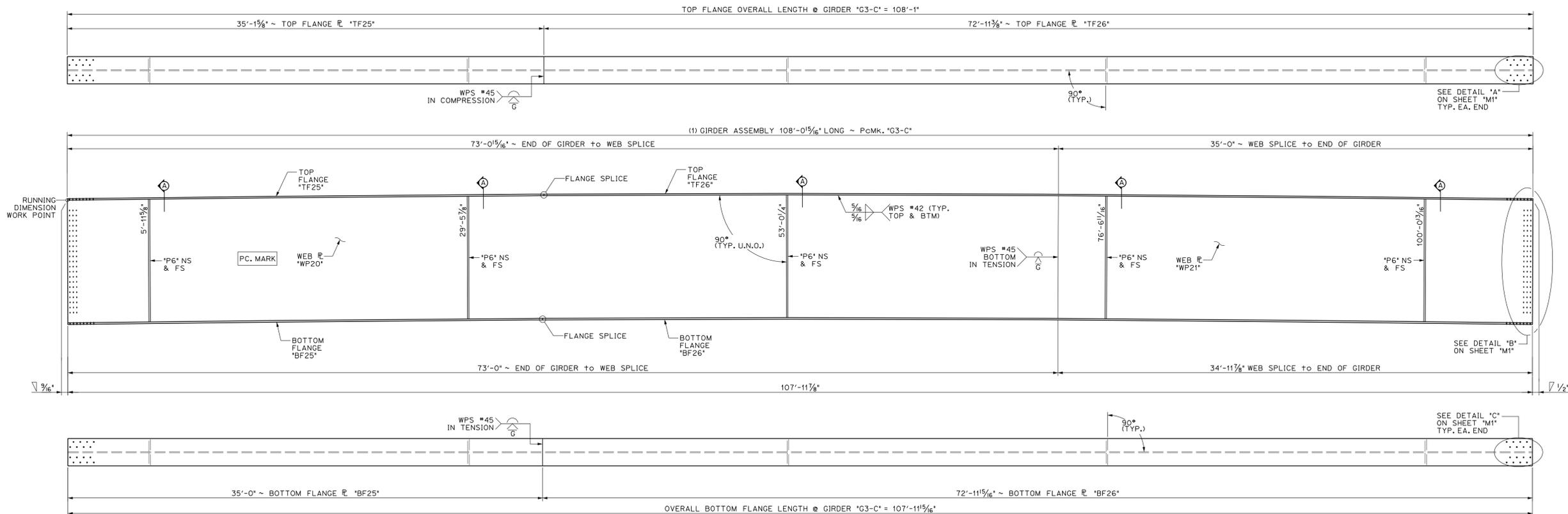
NO DATE DESCRIPTION BY

REVISIONS

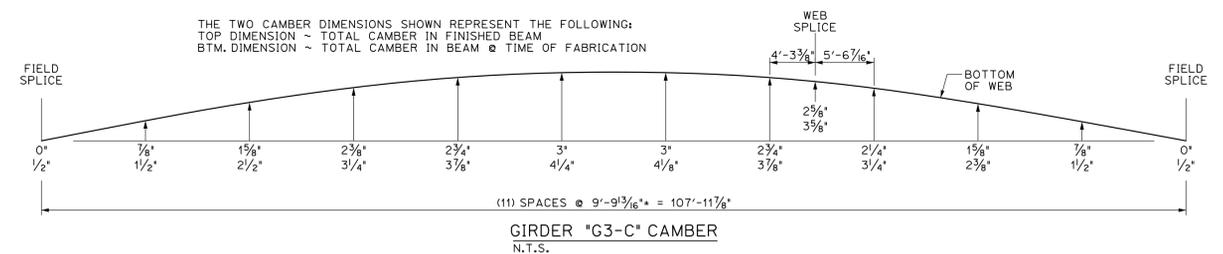
ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
 P.O. BOX 120 KINGFIELD, ME, 04947
 PHONE: (207) 265-2646 - FAX: (207) 265-4054

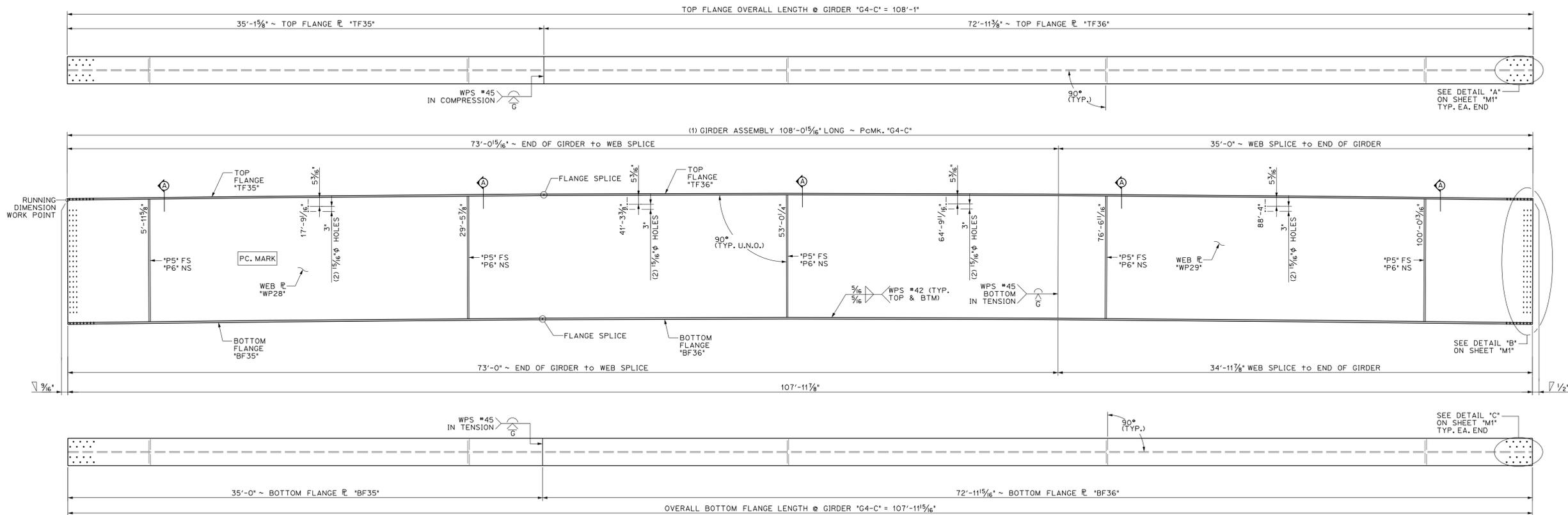
DRAFTER	JJH	GIRDER "G2-C"	PROJECT NO.
DATE	NOV. 2014	WATERBURY VT. BRIDGE 46A	14-148
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO.
DATE	NOV. 2014	BECK & BELLUCCI	13

Vermont Agency of Transportation
RECEIVED
 CK'D BY Stantec OK'D BY D Bonneau
 December 17, 2015
 RESUBMIT No Approved
 BY D Bonneau DATE 01/06/16

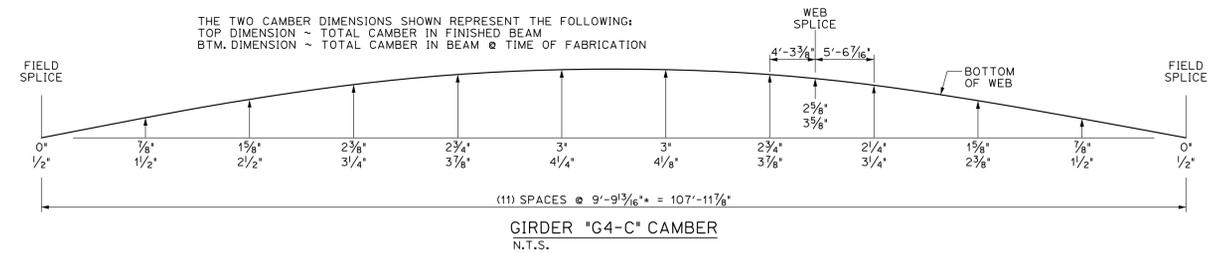


14 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G3-C"
 HORIZONTAL SCALE: 1/4" = 1'-0"
 VERTICAL SCALE EXAGGERATED 1.5:1

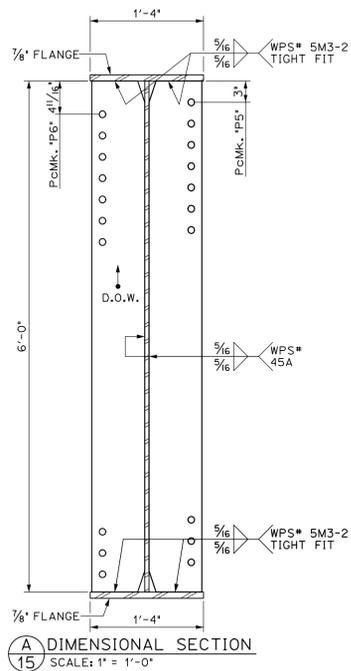




15 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G4-C"
 HORIZONTAL SCALE: 1/4" = 1'-0"
 VERTICAL SCALE EXAGGERATED 1.5:1



BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G4-C			BRIDGE GIRDER ASSEMBLY	108'-0 1/16"	26,150#	
		1	WP28	R 3/16" x 72'	73'-1'	10,100#	CVN
		1	WP29	R 3/16" x 72'	35'-0"	4850#	CVN
		1	TF35	R 7/8" x 16'	35'-1 1/8"	1700#	CVN
		1	TF36	R 7/8" x 16'	72'-11 3/8"	3500#	CVN
		1	BF35	R 7/8" x 16'	35'-0"	1700#	CVN
		1	BF36	R 7/8" x 16'	72'-11 1/16"	3500#	CVN
		5	P5	SEE SHEET M2			
		5	P6	SEE SHEET M2			



A DIMENSIONAL SECTION
 SCALE: 1" = 1'-0"

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements.

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 6/6/16

By: George Bogue

This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subtrades.

Stantec

Vermont Agency of Transportation
RECEIVED
 CK'D BY Stantec OK'D BY D Borneau
 December 17, 2015
 RESUBMIT No Approved
 BY D Borneau DATE 01/06/16

PROJECT No. IM 089-2(43)
 ITEM No. 506.55

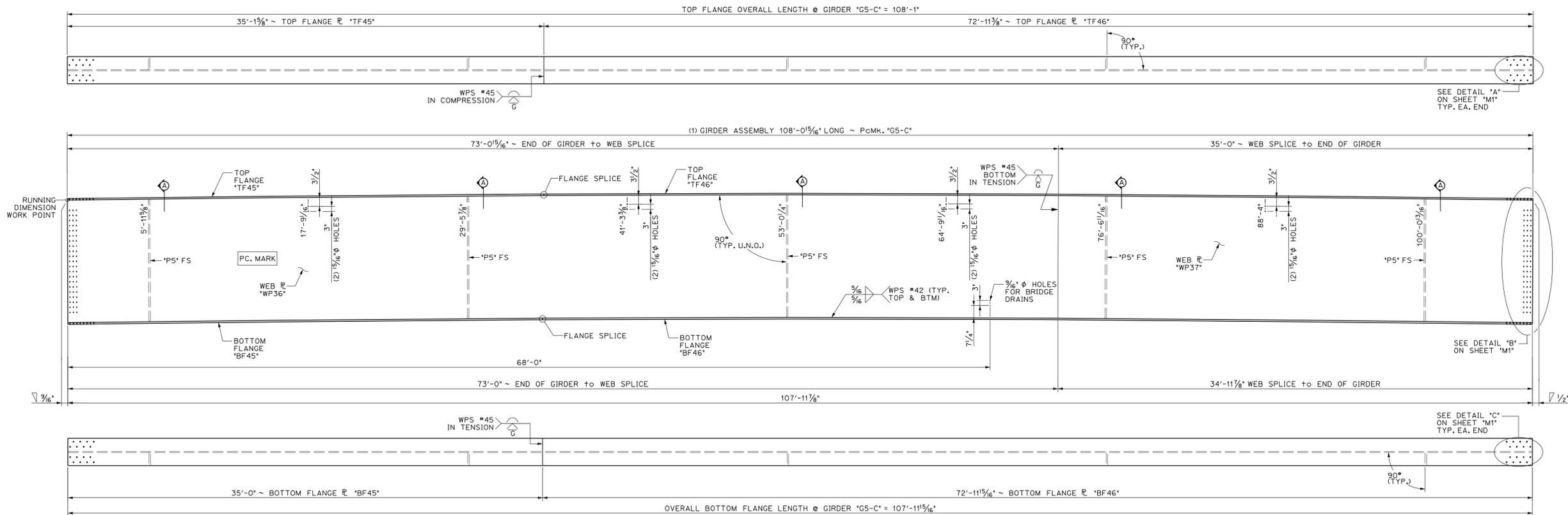
FINISH	SSPC SP6			
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W			
HOLES	15/16" Ø U.N.O.			
ELECTRODES	PER WELD PROCEDURE			
WELDS	PER WELD PROCEDURE			
SURFACE PREP	SSPC SP6			

NO	DATE	DESCRIPTION	BY
REVISIONS			

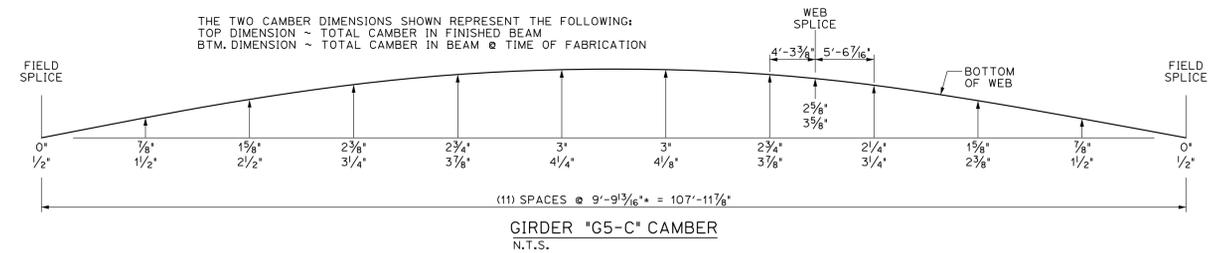
ARC ENTERPRISES, INC.

ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
 P.O. BOX 120 KINGFIELD, ME, 04947
 PHONE: (207) 265-2646 - FAX: (207) 265-4054

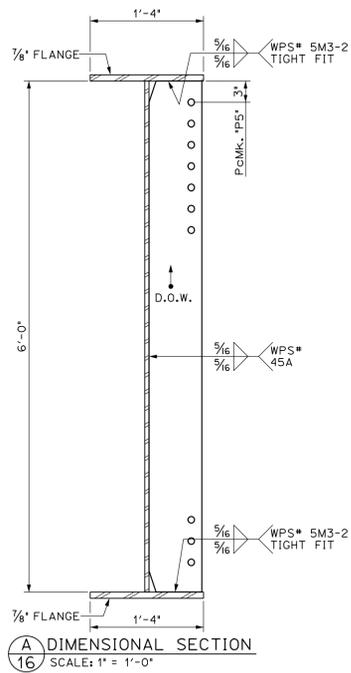
DRAFTER	JJH	GIRDER "G4-C"	PROJECT NO.	14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A	DWG. NO.	15
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK		
DATE	NOV. 2014	BECK & BELLUCCI		



16 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER 'G5-C'
 HORIZONTAL SCALE: 1/4" = 1'-0"
 VERTICAL SCALE EXAGGERATED 1.5:1



BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G5-C			BRIDGE GIRDER ASSEMBLY	108'-0 1/8"	25,750*	
		1	WP36	R 3/8" x 72'	73'-1'	10,100*	CVN
		1	WP37	R 3/8" x 72'	35'-0"	4850*	CVN
		1	TF45	R 7/8" x 16'	35'-1 1/8"	1700*	CVN
		1	TF46	R 7/8" x 16'	72'-11 3/8"	3500*	CVN
		1	BF45	R 7/8" x 16'	35'-0"	1700*	CVN
		1	BF46	R 7/8" x 16'	72'-11 1/8"	3500*	CVN
		5	P5	SEE SHEET M2			



APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 6/6/16

By: George Bogue

This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subtrades.

Stantec

Vermont Agency of Transportation
RECEIVED
 CK'D BY Stantec OK'D BY D Boneau
 December 17, 2015
 RESUBMIT No Approved
 BY D Boneau DATE 01/06/16

PROJECT No. IM 089-2(43)
 ITEM No. 506.55

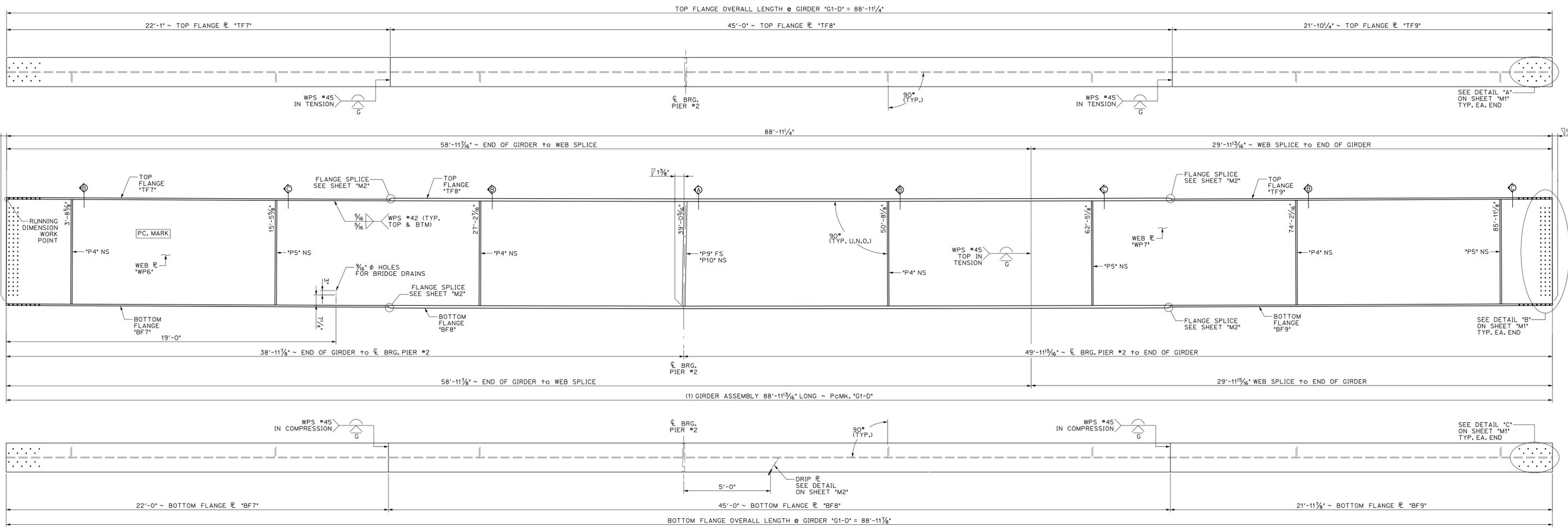
FINISH	SSPC SP6			
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W			
HOLES	15/16" Ø U.N.D.			
ELECTRODES	PER WELD PROCEDURE			
WELDS	PER WELD PROCEDURE			
SURFACE PREP	SSPC SP6			

NO.	DATE	DESCRIPTION	BY
REVISIONS			

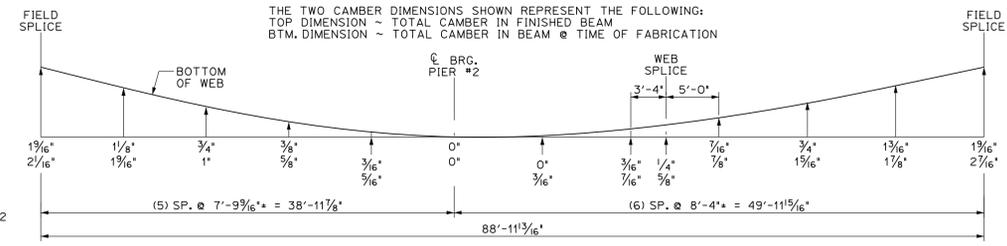
ARC
 ENTERPRISES, INC.

ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
 P.O. BOX 120 KINGFIELD, ME, 04947
 PHONE: (207) 265-2646 - FAX: (207) 265-4054

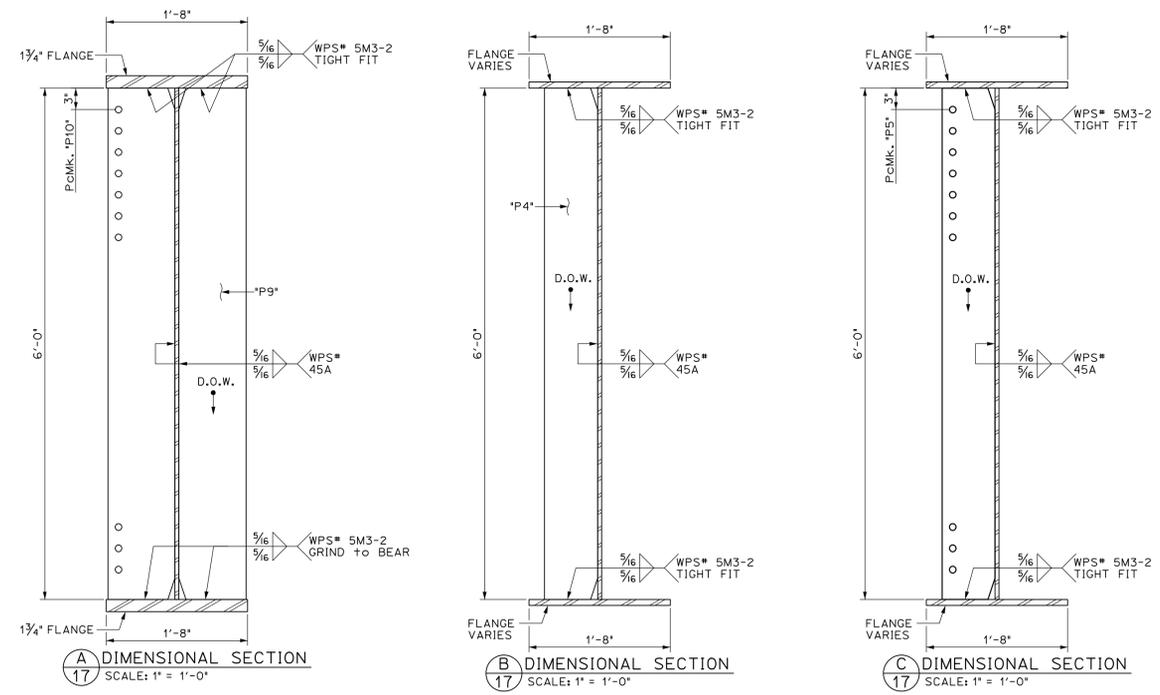
DRAFTER	JJH	GIRDER "G5-C"	PROJECT NO.	14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A	DWG. NO.	16
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK		
DATE	NOV. 2014	BECK & BELLUCCI		



17 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER 'G1-D'
SCALE: 3/8" = 1'-0"



BILL OF MATERIALS							
SHIP MARK	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G1-D			BRIDGE GIRDER ASSEMBLY	88'-11 3/16"	31,100#	
		1	WP6	R 3/16" x 72'	59'-0"	4150#	CVN
		1	WP7	R 3/16" x 72'	29'-11 1/2"	8150#	CVN
		1	TF7	R 1 1/8" x 20"	22'-1"	1725#	CVN
		1	TF8	R 1 3/4" x 20"	45'-0"	5400#	CVN
		1	TF9	R 1 1/4" x 20"	21'-10 1/4"	1725#	CVN
		1	BF7	R 1 1/4" x 20"	22'-0"	1725#	CVN
		1	BF8	R 1 3/4" x 20"	45'-0"	5400#	CVN
		1	BF9	R 1 1/8" x 20"	21'-11 1/8"	1725#	CVN
		4	P4	SEE SHEET M2			
		3	P5	SEE SHEET M2			
		1	P9	SEE SHEET M2			
		1	P10	SEE SHEET M2			



APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements.

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 6/6/16

By: George Bogue

This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such reviews shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subcontractors.



Vermont Agency of Transportation
RECEIVED

CK'D BY Stantec OK'D BY D Borneau
December 17, 2015
RESUBMIT No Approved
BY D Borneau DATE 01/06/16

PROJECT No. IM 089-2(43)
ITEM No. 506.55

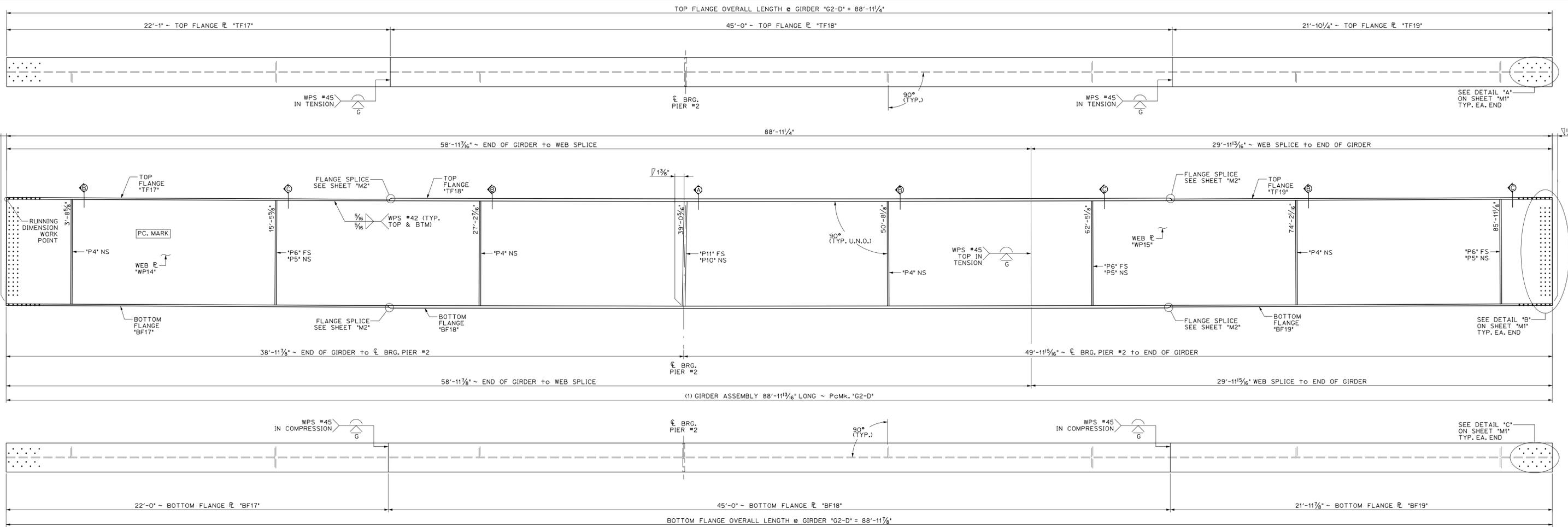
FINISH	SSPC SP6
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W
HOLES	15/16" Ø U.N.O.
ELECTRODES	PER WELD PROCEDURE
WELDS	PER WELD PROCEDURE
SURFACE PREP	SSPC SP6

NO	DATE	DESCRIPTION	BY
REVISIONS			

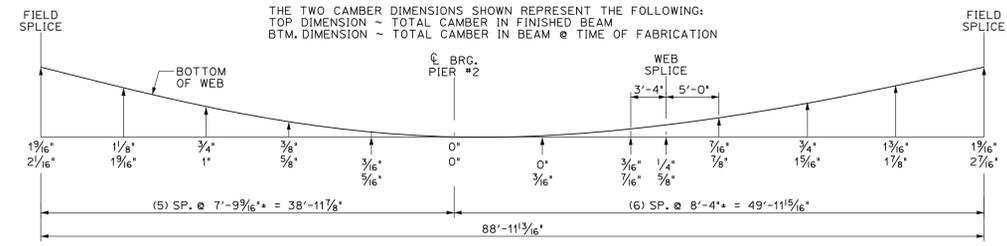
ARC ENTERPRISES, INC.

ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
P.O. BOX 120 KINGFIELD, ME, 04947
PHONE: (207) 265-2646 - FAX: (207) 265-4054

DRAFTER	JJH	GIRDER "G1-D"	PROJECT NO.	14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A	DWG. NO.	17
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK		
DATE	NOV. 2014	BECK & BELLUCCI		

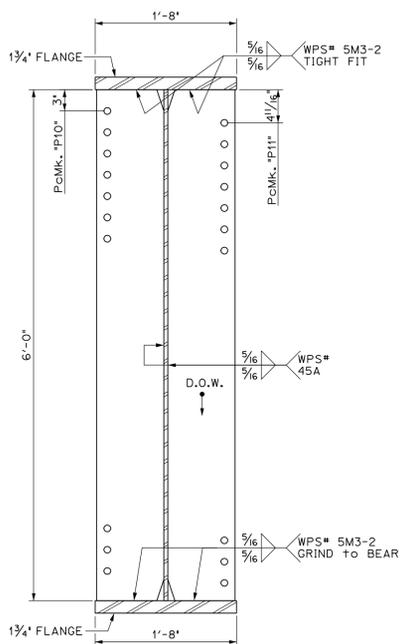


1 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G2-D"
 18 SCALE: 3/8" = 1'-0"

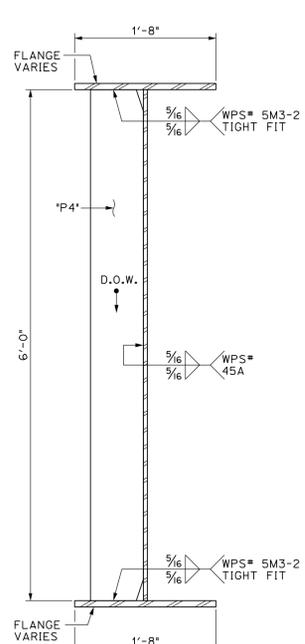


GIRDER "G2-D" CAMBER
 N.T.S.

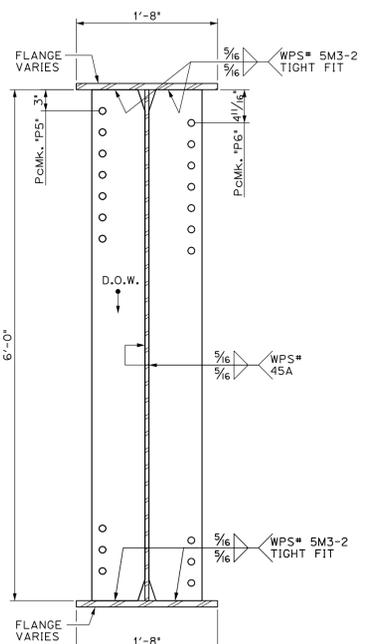
BILL OF MATERIALS							
SHIP MARK	SHIP NO.	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G2-D			BRIDGE GIRDER ASSEMBLY	88'-11 1/8"	31,300#	
		1	WP14	PL 3/8" x 72'	59'-0"	4150#	CVN
		1	WP15	PL 3/8" x 72'	29'-11 1/8"	8150#	CVN
		1	TF17	PL 1/4" x 20'	22'-1"	1725#	CVN
		1	TF18	PL 1/4" x 20'	45'-0"	5400#	CVN
		1	TF19	PL 1/4" x 20'	21'-10 1/4"	1725#	CVN
		1	BF17	PL 1/4" x 20'	22'-0"	1725#	CVN
		1	BF18	PL 1/4" x 20'	45'-0"	5400#	CVN
		1	BF19	PL 1/4" x 20'	21'-11 1/8"	1725#	CVN
		4	P4	SEE SHEET M2			
		3	P5	SEE SHEET M2			
		3	P6	SEE SHEET M2			
		1	P10	SEE SHEET M2			
		1	P11	SEE SHEET M2			



A DIMENSIONAL SECTION
 18 SCALE: 1" = 1'-0"



B DIMENSIONAL SECTION
 18 SCALE: 1" = 1'-0"



C DIMENSIONAL SECTION
 18 SCALE: 1" = 1'-0"

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements.

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 6/6/16

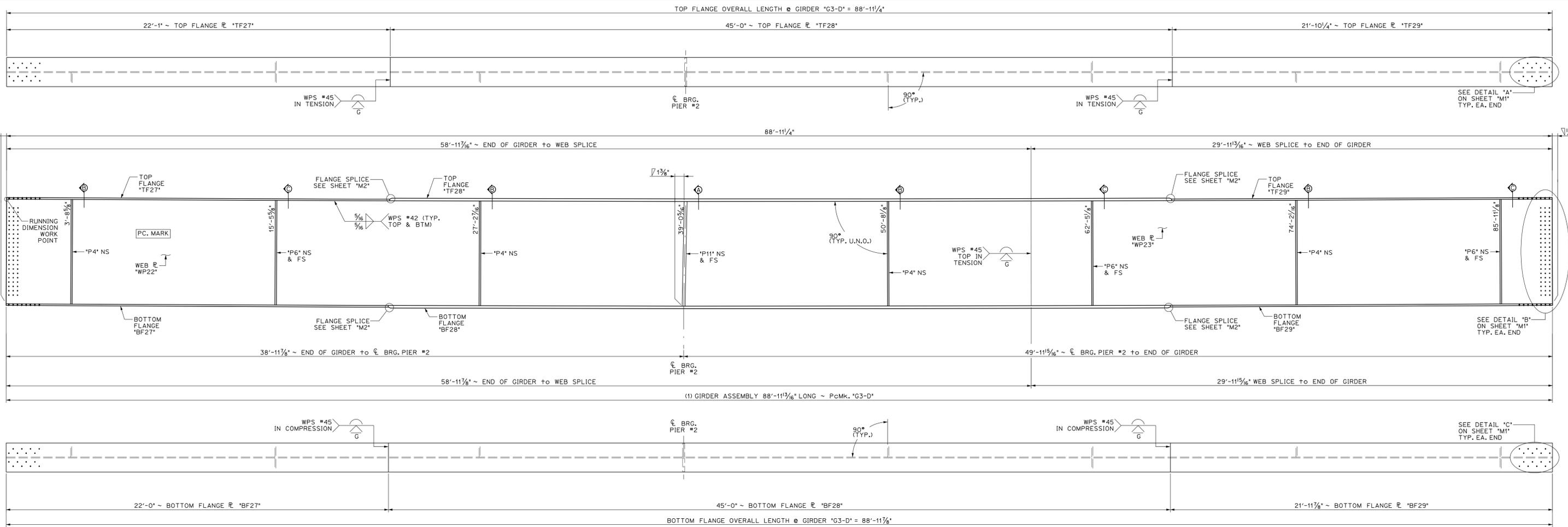
By: George Bogue

This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication process or to techniques of construction and installation and for coordination of the work of all subcontractors.

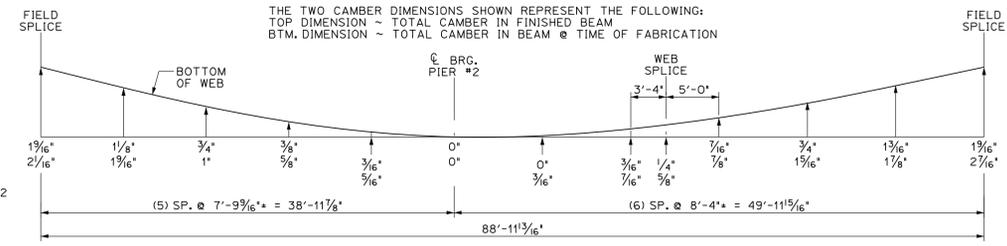
Stantec

PROJECT No. IM 089-2(43) ITEM No. 506.55	
FINISH: SSPC SP6	
MATERIAL: AASHTO M270 (ASTM A709) GRADE 50W	
HOLES: 15/16" Ø U.N.D.	
ELECTRODES: PER WELD PROCEDURE	
WELDS: PER WELD PROCEDURE	
SURFACE PREP: SSPC SP6	
NO DATE DESCRIPTION BY	
REVISIONS	
ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED P.O. BOX 120 KINGFIELD, ME, 04947 PHONE: (207) 265-2646 - FAX: (207) 265-4054	
DRAFTER: JHH	GIRDER "G2-D"
DATE: NOV. 2014	WATERBURY VT. BRIDGE 46A
CHECKED: DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK
DATE: NOV. 2014	BECK & BELLUCCI
PROJECT NO. 14-148	DWG. NO. 18

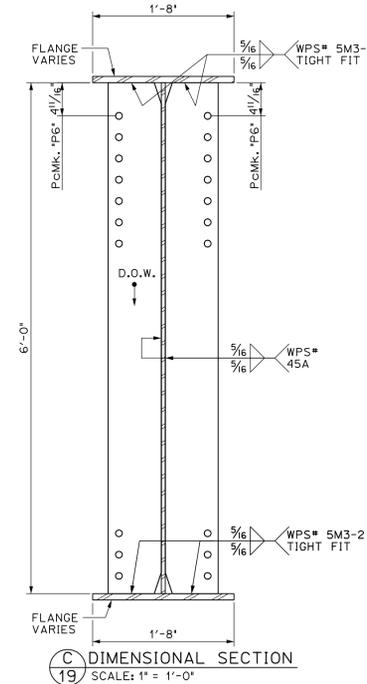
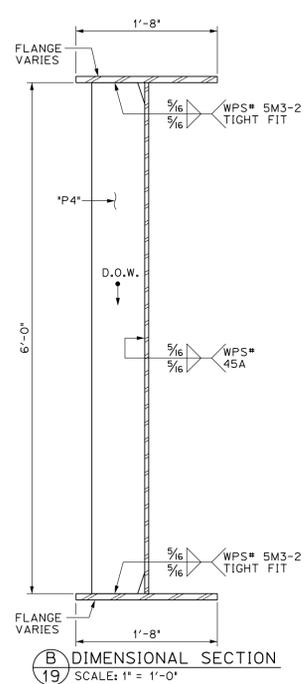
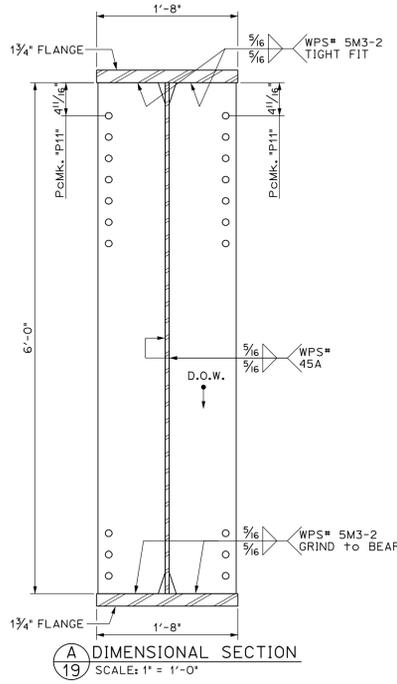
Vermont Agency of Transportation
RECEIVED
 CK'D BY Stantec OK'D BY D Bonnaeu
 December 17, 2015
 RESUBMIT No Approved
 BY D Bonnaeu DATE 01/06/16



19 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G3-D"
SCALE: 3/8" = 1'-0"



BILL OF MATERIALS							
SHIP MARK	SHIP NO.	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G3-D			BRIDGE GIRDER ASSEMBLY	88'-11 3/16"	31,300#	
		1	WP22	ℓ 3/8" x 72'	59'-0"	4150#	CVN
		1	WP23	ℓ 3/8" x 72'	29'-11 1/2"	8150#	CVN
		1	TF27	ℓ 1 1/8" x 20"	22'-1"	1725#	CVN
		1	TF28	ℓ 1 3/4" x 20"	45'-0"	5400#	CVN
		1	TF29	ℓ 1 1/8" x 20"	21'-10 1/4"	1725#	CVN
		1	BF27	ℓ 1 1/8" x 20"	22'-0"	1725#	CVN
		1	BF28	ℓ 1 3/4" x 20"	45'-0"	5400#	CVN
		1	BF29	ℓ 1 1/8" x 20"	21'-11 1/8"	1725#	CVN
		4	P4	SEE SHEET M2			
		6	P6	SEE SHEET M2			
		2	P11	SEE SHEET M2			



APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements.

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 6/6/16

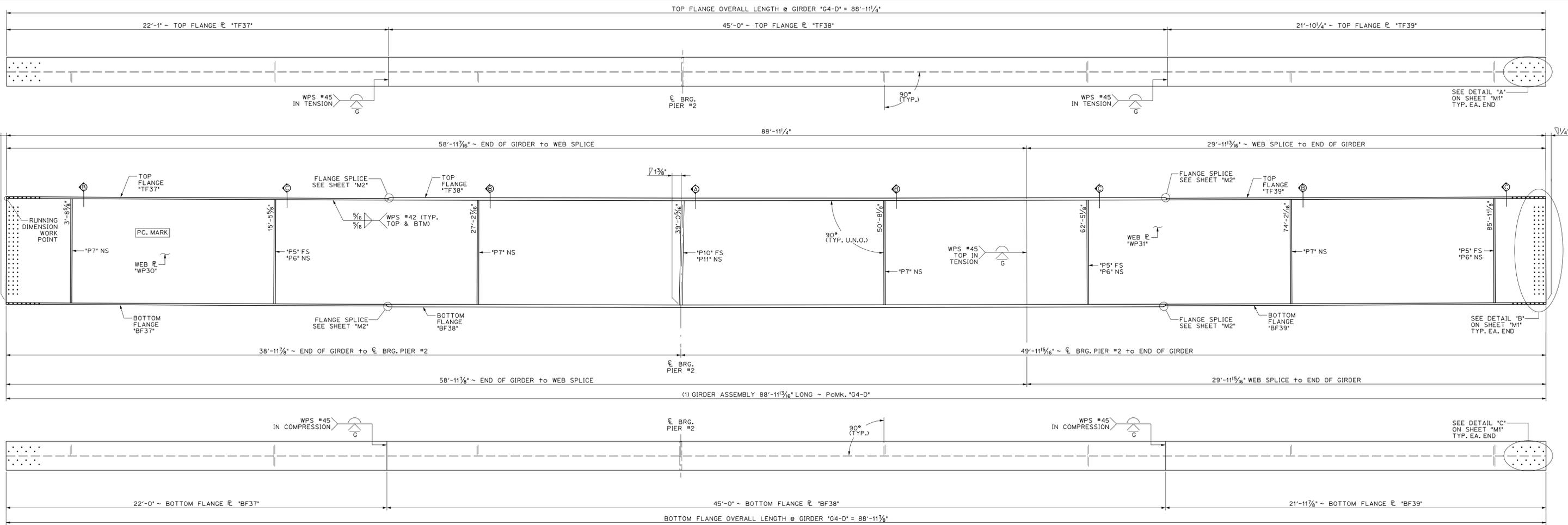
By: George Bogue

This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subtrades.

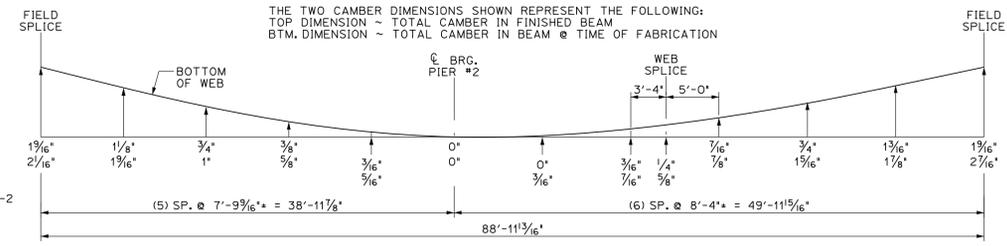


Vermont Agency of Transportation
RECEIVED
December 17, 2015
RESUBMIT No Approved
BY D Bonnaeu DATE 01/06/16

PROJECT No. IM 089-2(43) ITEM No. 506.55	
FINISH	SSPC SP6
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W
HOLES	15/16" Ø U.N.O.
ELECTRODES	PER WELD PROCEDURE
WELDS	PER WELD PROCEDURE
SURFACE PREP	SSPC SP6
NO DATE DESCRIPTION BY	
REVISIONS	
ARC ENTERPRISES, INC. ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED P.O. BOX 120 KINGFIELD, ME, 04947 PHONE: (207) 265-2646 - FAX: (207) 265-4054	
DRAFTER	JJH
DATE	NOV. 2014
CHECKED	DLM
DATE	NOV. 2014
GIRDER "G3-D"	
WATERBURY VT. BRIDGE 46A 1-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
BECK & BELLUCCI	
PROJECT NO.	14-148
DWG. NO.	19

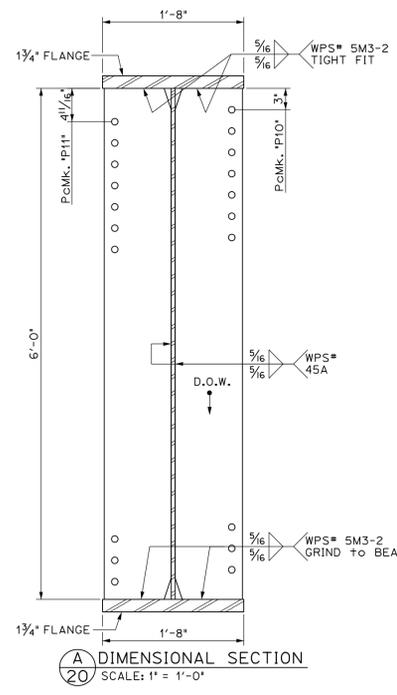


1 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G4-D"
 20 SCALE: 3/8" = 1'-0"

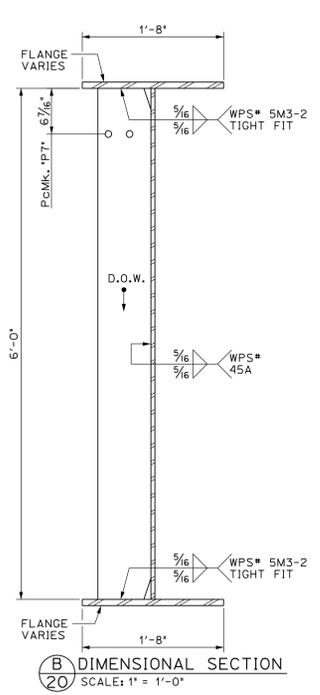


GIRDER "G4-D" CAMBER
 N.T.S.

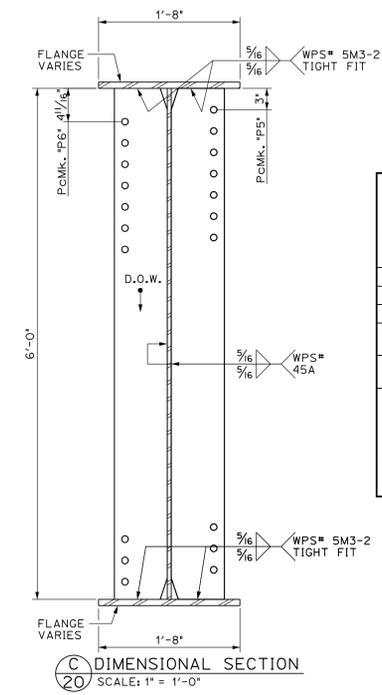
BILL OF MATERIALS							
SHIP MARK	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G4-D			BRIDGE GIRDER ASSEMBLY	88'-11 1/4"	31,300#	
		1	WP30	ℓ 3/8" x 72'	59'-0"	4150#	CVN
		1	WP31	ℓ 3/8" x 72'	29'-11 1/2"	8150#	CVN
		1	TF37	ℓ 1 1/8" x 20'	22'-1"	1725#	CVN
		1	TF38	ℓ 1 3/4" x 20'	45'-0"	5400#	CVN
		1	TF39	ℓ 1 1/8" x 20'	21'-10 1/4"	1725#	CVN
		1	BF37	ℓ 1 1/8" x 20'	22'-0"	1725#	CVN
		1	BF38	ℓ 1 3/4" x 20'	45'-0"	5400#	CVN
		1	BF39	ℓ 1 1/8" x 20'	21'-11 1/8"	1725#	CVN
		3	P5	SEE SHEET M2			
		3	P6	SEE SHEET M2			
		4	P7	SEE SHEET M2			
		1	P10	SEE SHEET M2			
		1	P11	SEE SHEET M2			



A DIMENSIONAL SECTION
 20 SCALE: 1" = 1'-0"



B DIMENSIONAL SECTION
 20 SCALE: 1" = 1'-0"



C DIMENSIONAL SECTION
 20 SCALE: 1" = 1'-0"

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements.

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 6/6/16

By: George Bogue

This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subcontractors.

Vermont Agency of Transportation
RECEIVED
 CK'D BY Stantec OK'D BY D Borneau
 December 17, 2015
 RESUBMIT No Approved
 BY D Borneau DATE 01/06/16

PROJECT No. IM 089-2(43)
 ITEM No. 506.55

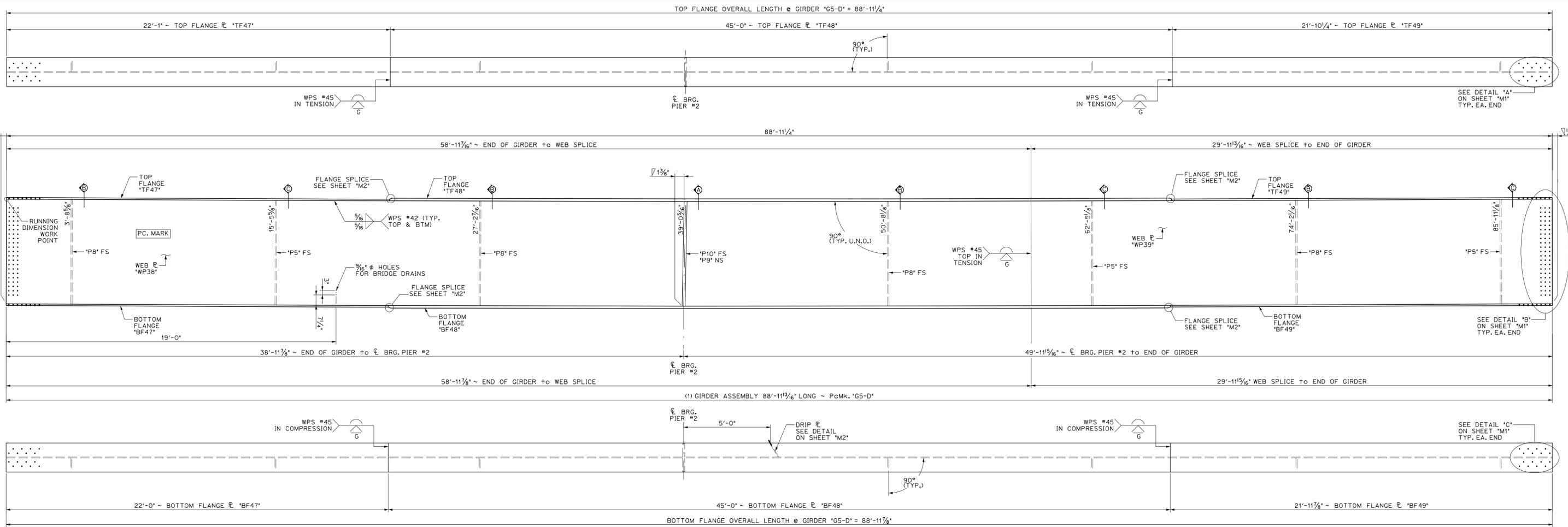
FINISH	SSPC SP6			
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W			
HOLES	15/16" Ø U.N.O.			
ELECTRODES	PER WELD PROCEDURE			
WELDS	PER WELD PROCEDURE			
SURFACE PREP	SSPC SP6			

NO	DATE	DESCRIPTION	BY
REVISIONS			

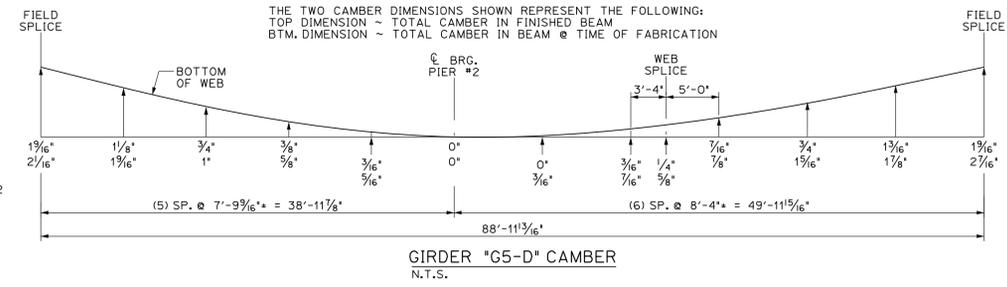
ARC ENTERPRISES, INC.

ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
 P.O. BOX 120 KINGFIELD, ME, 04947
 PHONE: (207) 265-2646 - FAX: (207) 265-4054

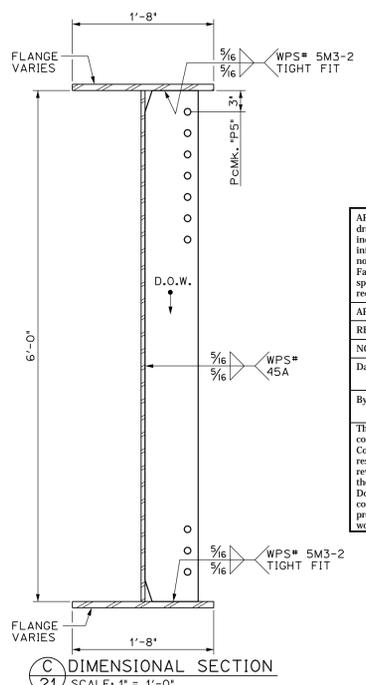
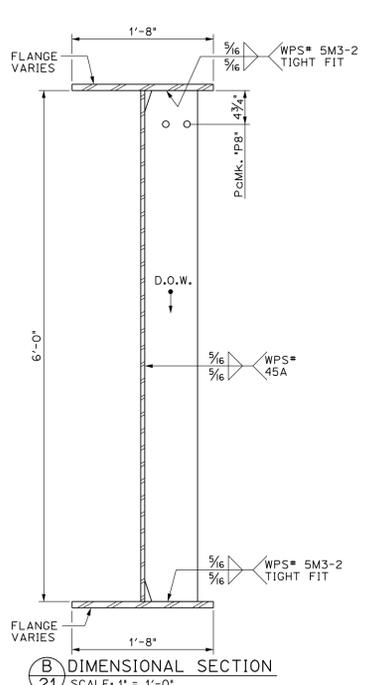
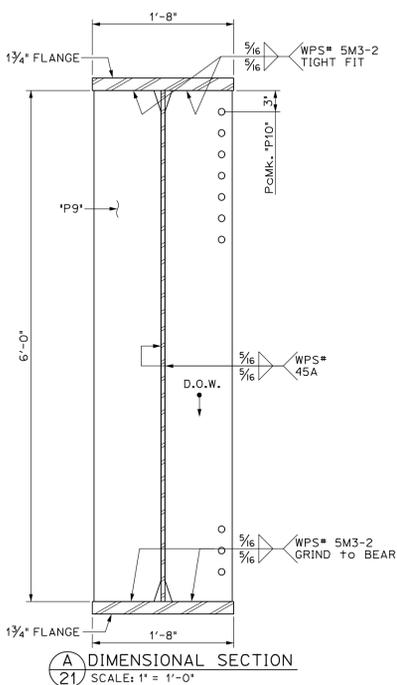
DRAFTER	JJH	GIRDER "G4-D"	PROJECT NO.	14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A	DWG. NO.	20
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK		
DATE	NOV. 2014	BECK & BELLUCCI		



1 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G5-D"
 21 SCALE: 3/8" = 1'-0"



BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G5-D			BRIDGE GIRDER ASSEMBLY	88'-11 3/16"	31,100#	
		1	WP38	ℓ 3/16" x 72'	59'-0"	4150#	CVN
		1	WP39	ℓ 3/16" x 72'	29'-11 1/2"	8150#	CVN
		1	TF47	ℓ 1/8" x 20"	22'-1"	1725#	CVN
		1	TF48	ℓ 1 3/4" x 20"	45'-0"	5400#	CVN
		1	TF49	ℓ 1 1/4" x 20"	21'-10 1/4"	1725#	CVN
		1	BF47	ℓ 1/8" x 20"	22'-0"	1725#	CVN
		1	BF48	ℓ 1 3/4" x 20"	45'-0"	5400#	CVN
		1	BF49	ℓ 1/8" x 20"	21'-11 7/8"	1725#	CVN
		3	P5	SEE SHEET M2			
		4	P8	SEE SHEET M2			
		1	P9	SEE SHEET M2			
		1	P10	SEE SHEET M2			



APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 6/6/16

By: George Bogue

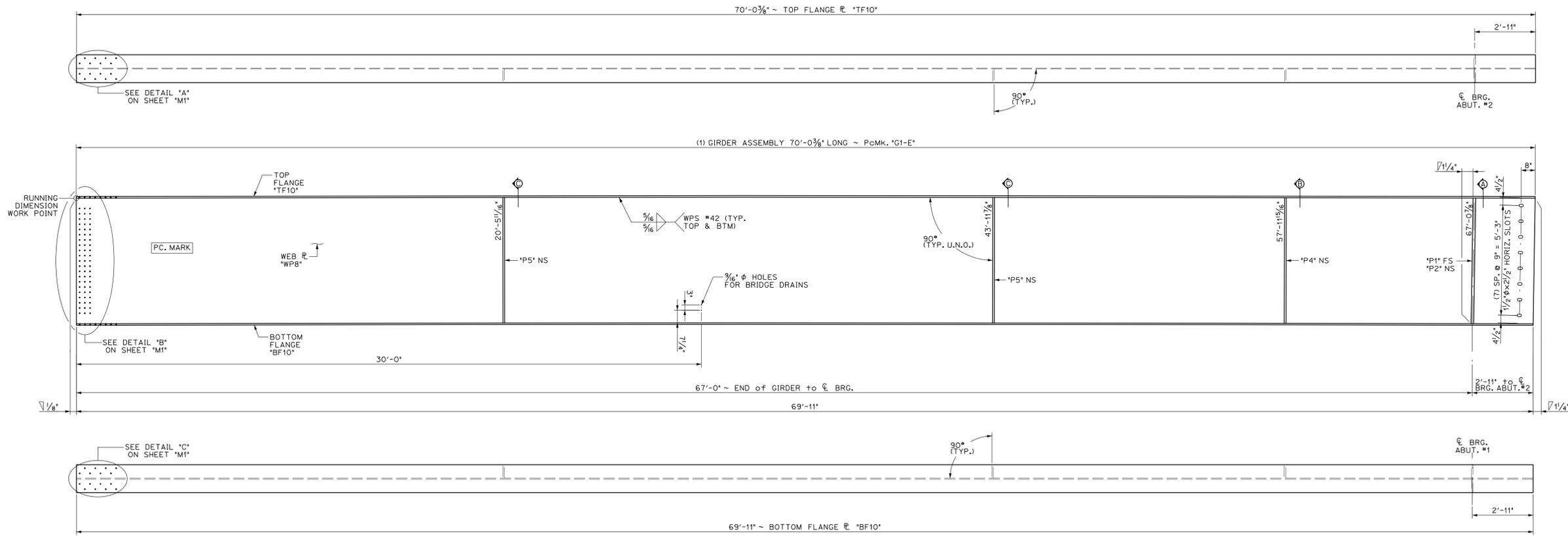
This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subcontractors.

Stantec

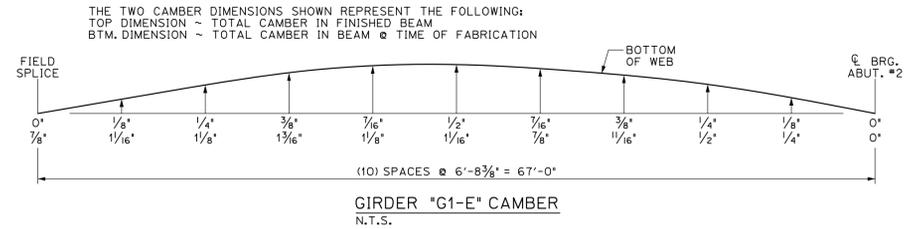
Vermont Agency of Transportation
RECEIVED
 December 17, 2015

RESUBMIT No Approved
 BY D Bonneau DATE 01/06/16

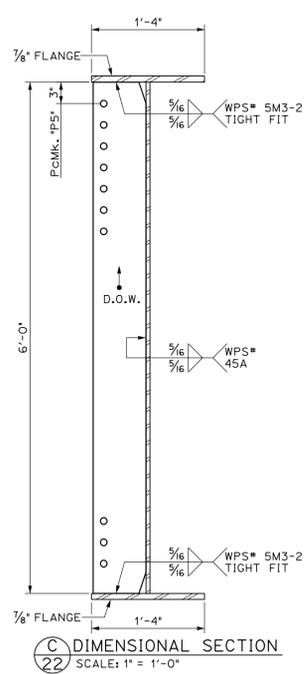
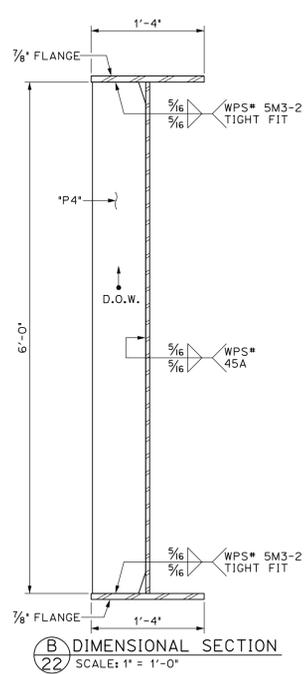
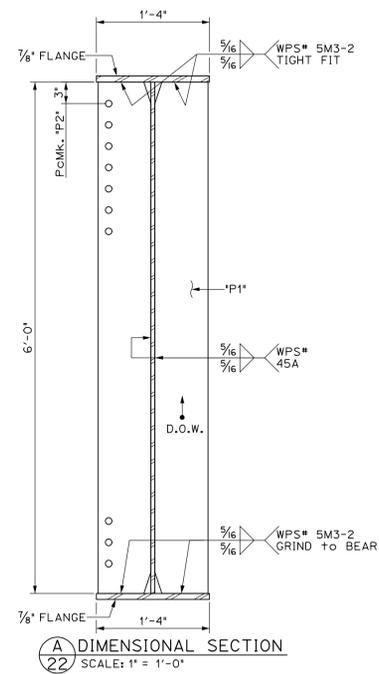
PROJECT No. IM 089-2(43) ITEM No. 506.55			
FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" Ø U.N.O.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP	SSPC SP6		
REVISIONS			
NO	DATE	DESCRIPTION	BY
ARC ENTERPRISES, INC.			
ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED			
P.O. BOX 120 KINGFIELD, ME. 04947			
PHONE: (207) 265-2646 - FAX: (207) 265-4054			
DRAFTER	JJH	GIRDER "G5-D"	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY VT. BRIDGE 46A	DWG. NO. 21
CHECKED	DLM	189 EXIT RAMP over STOWE ST. & THATCHER BROOK	
DATE	NOV. 2014	BECK & BELLUCCI	



1 22 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G1-E"
SCALE: 3/8" = 1'-0"



BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G1-E			BRIDGE GIRDER ASSEMBLY	70'-0 3/8"	16,950#	
		1	WP8	R 3/8" x 72'	70'-0 3/8"	9700#	CVN
		1	TF10	R 7/8" x 16'	70'-0 3/8"	3350#	CVN
		1	BF10	R 7/8" x 16'	69'-11"	3350#	CVN
		1	P1	SEE SHEET M2			
		1	P2	SEE SHEET M2			
		1	P4	SEE SHEET M2			
		2	P5	SEE SHEET M2			



APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 6/6/16

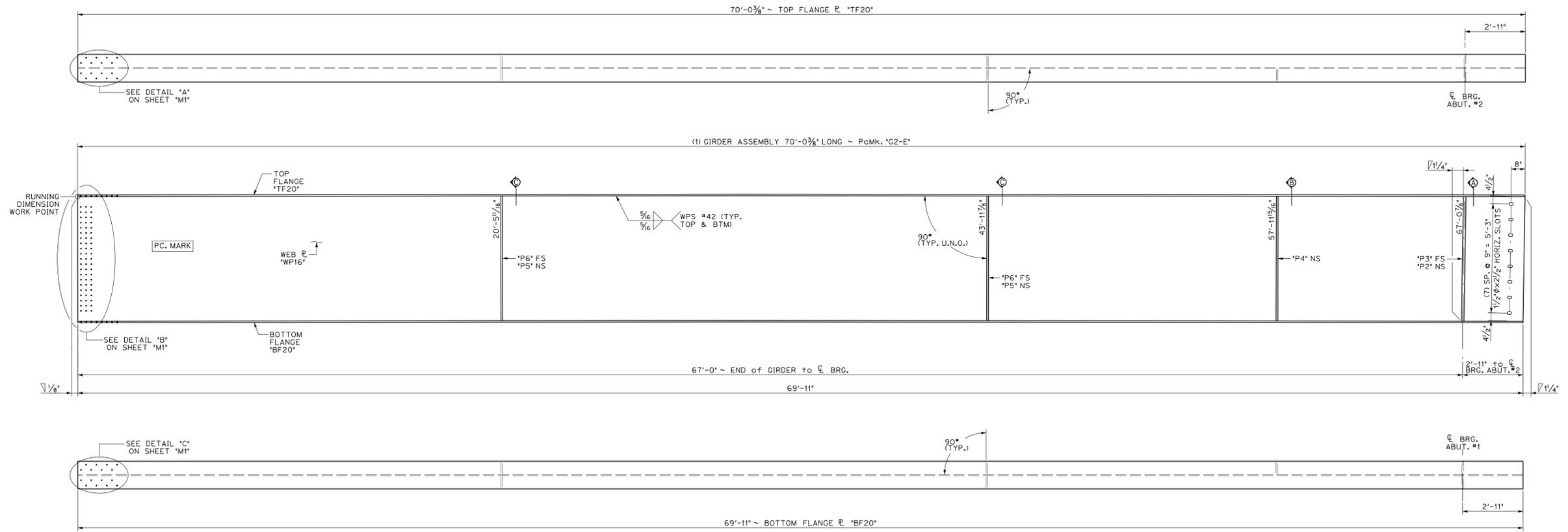
By: George Bogue

Stantec

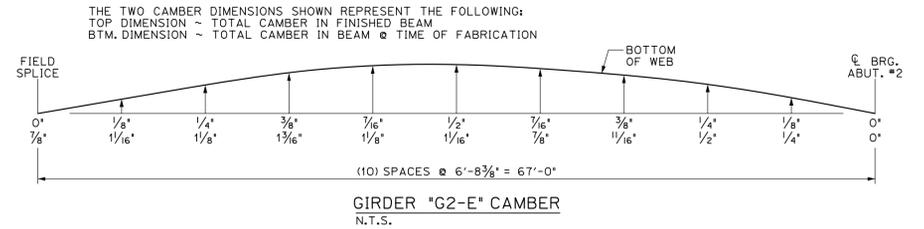
This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subtrades.

PROJECT No. IM 089-2(43) ITEM No. 506.55			
FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" @ U.N.O.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP	SSPC SP6		
		NO	DATE
			DESCRIPTION
			BY
REVISIONS			
		ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED P.O. BOX 120 KINGFIELD, ME. 04947 PHONE: (207) 265-2646 - FAX: (207) 265-4054	
DRAFTER	JJH	GIRDER "G1-E"	PROJECT NO.
DATE	NOV. 2014	WATERBURY VT. BRIDGE 46A	14-148
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO.
DATE	NOV. 2014	BECK & BELLUCCI	22

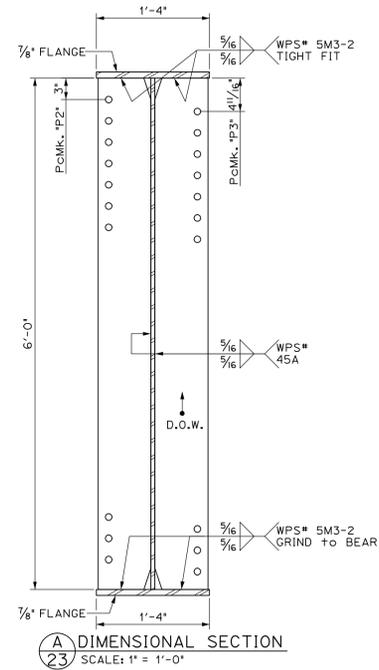
Vermont Agency of Transportation
RECEIVED
CK'D BY Stantec OK'D BY D Borneau
December 17, 2015
RESUBMIT No Approved
BY D Borneau DATE 01/06/16



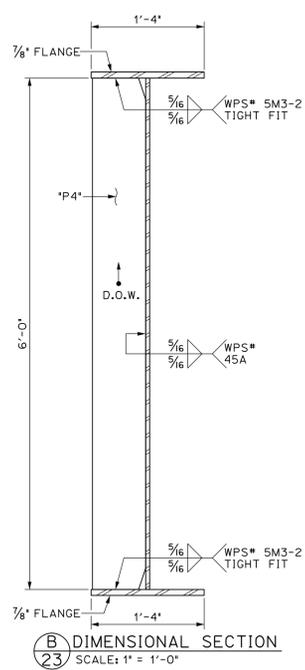
1
23 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G2-E"
SCALE: 3/8" = 1'-0"



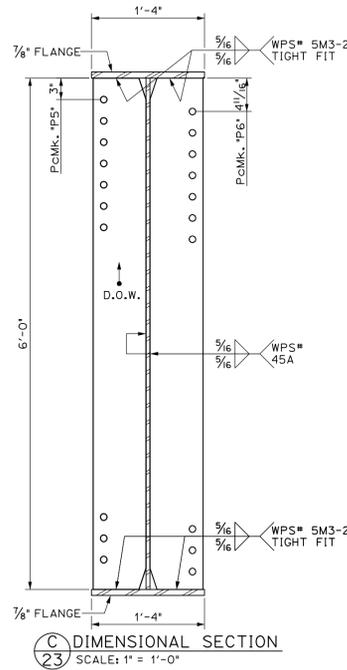
BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G2-E			BRIDGE GIRDER ASSEMBLY	70'-0 3/8'	17,100#	
		1	WP16	R 3/8" x 72'	70'-0 3/8'	9700#	CVN
		1	TF20	R 7/8" x 16'	70'-0 3/8'	3350#	CVN
		1	BF20	R 7/8" x 16'	69'-11'	3350#	CVN
		1	P2	SEE SHEET M2			
		1	P3	SEE SHEET M2			
		1	P4	SEE SHEET M2			
		2	P5	SEE SHEET M2			
		2	P6	SEE SHEET M2			



A
23 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



B
23 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



C
23 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

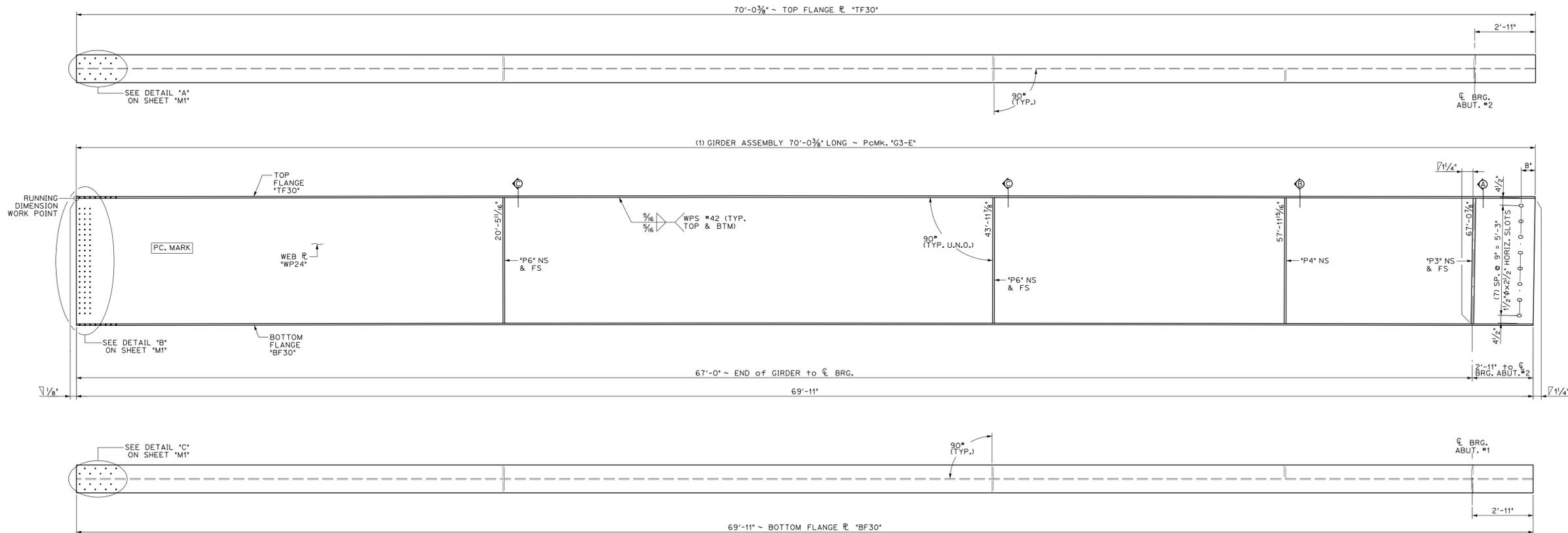
Date: 6/6/16

By: George Bogue

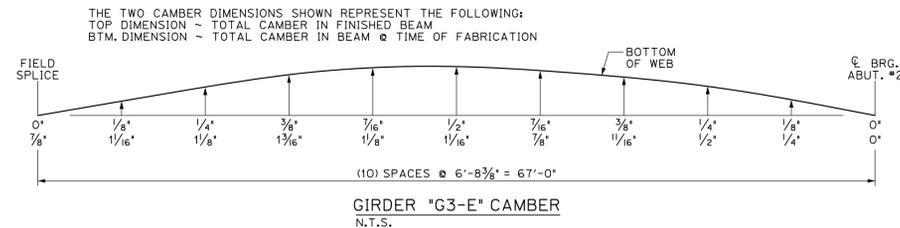
This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subcontractors.

PROJECT No. IM 089-2(43) ITEM No. 506.55			
FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" Ø U.N.O.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP	SSPC SP6		
		NO	DATE
		DESCRIPTION	
		BY	
REVISIONS			
		ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED P.O. BOX 120 KINGFIELD, ME, 04947 PHONE: (207) 265-2646 - FAX: (207) 265-4054	
DRAFTER	JJH	GIRDER "G2-E"	PROJECT NO.
DATE	NOV. 2014	WATERBURY VT. BRIDGE 46A	14-148
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO.
DATE	NOV. 2014	BECK & BELLUCCI	23

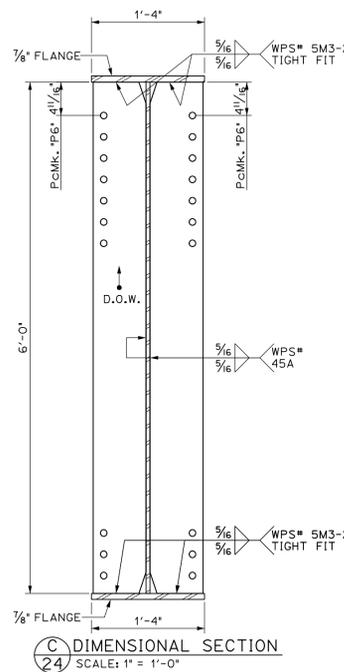
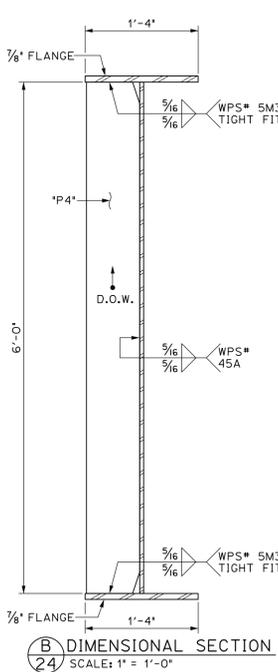
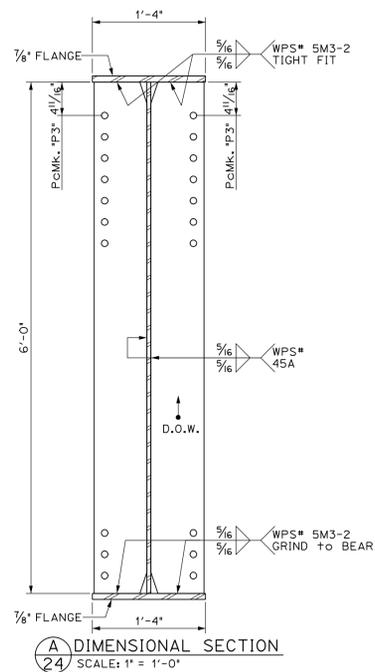
Vermont Agency of Transportation
RECEIVED
CR'D BY Stantec OK'D BY D Borneau
December 17, 2015
RESUBMIT No Approved
BY D Borneau DATE 01/06/16



1 24 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G3-E"
SCALE: 3/8" = 1'-0"



BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G3-E			BRIDGE GIRDER ASSEMBLY	70'-0 3/8'	17,100#	
		1	WP24	R 3/8" x 72'	70'-0 3/8'	9700#	CVN
		1	TF30	R 7/8" x 16'	70'-0 3/8'	3350#	CVN
		1	BF30	R 7/8" x 16'	69'-11'	3350#	CVN
		2	P3	SEE SHEET M2			
		1	P4	SEE SHEET M2			
		4	P6	SEE SHEET M2			



APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements.

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 6/6/16

By: George Bogue

This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subtrades.

PROJECT No. IM 089-2(43)
ITEM No. 506.55

FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" Ø U.N.D.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP	SSPC SP6		

NO	DATE	DESCRIPTION	BY
REVISIONS			

ARC ENTERPRISES, INC.

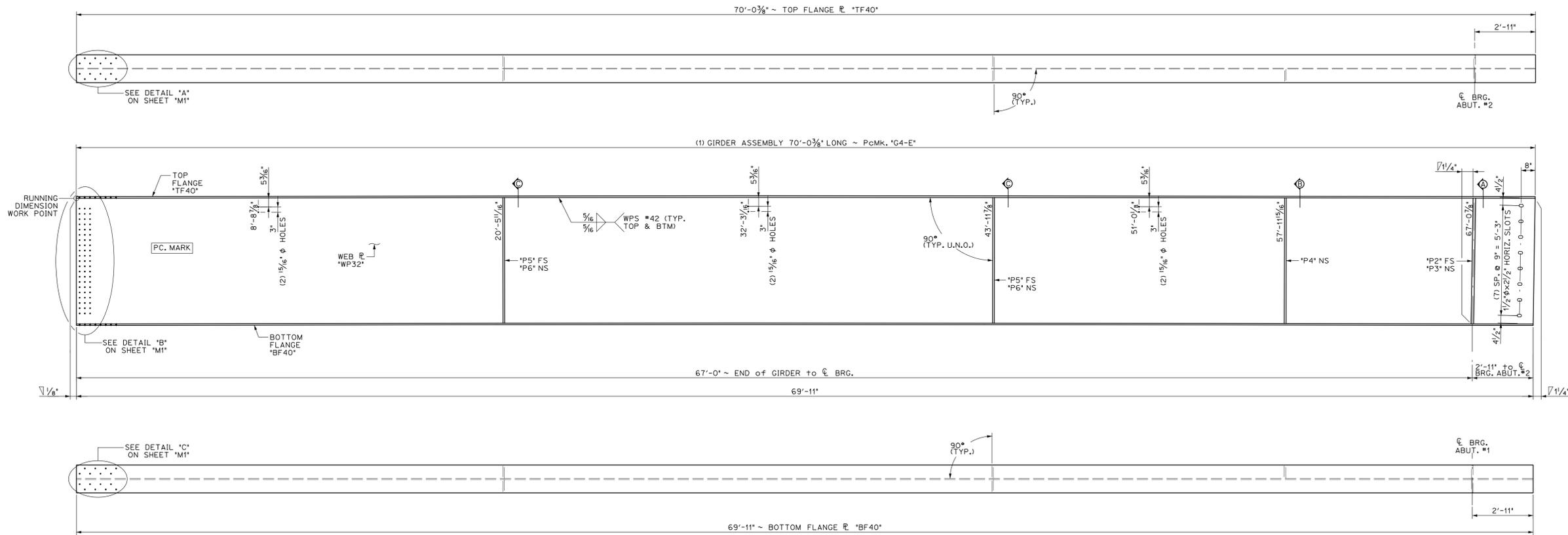
ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
P.O. BOX 120 KINGFIELD, ME, 04947
PHONE: (207) 265-2646 - FAX: (207) 265-4054

VERMONT AGENCY OF TRANSPORTATION
RECEIVED
December 17, 2015

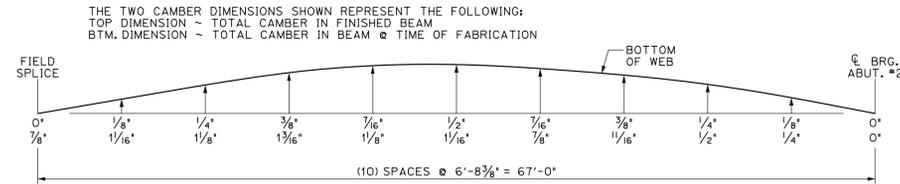
CK'D BY Stantec OK'D BY D Borneau

RESUBMIT No Approved
BY D Borneau DATE 01/06/16

DRAFTER	JJH	GIRDER "G3-E"	PROJECT NO.	14-148
DATE	NOV. 2014	WATERBURY VT. BRIDGE 46A	DWG. NO.	24
CHECKED	DLM	L-89 EXIT RAMP over STOWE ST. & THATCHER BROOK		
DATE	NOV. 2014	BECK & BELLUCCI		

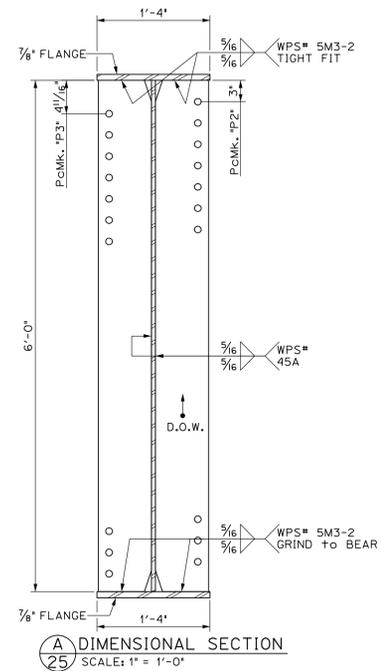


1
25 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G4-E"
SCALE: 3/8" = 1'-0"

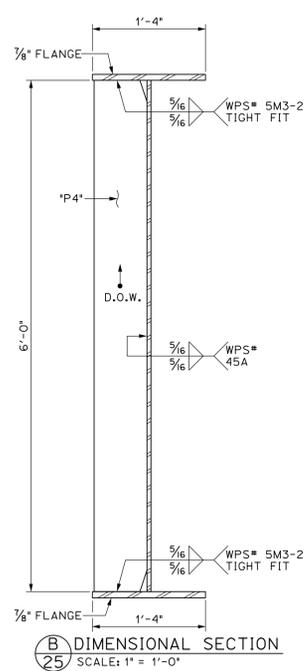


GIRDER "G4-E" CAMBER
N.T.S.

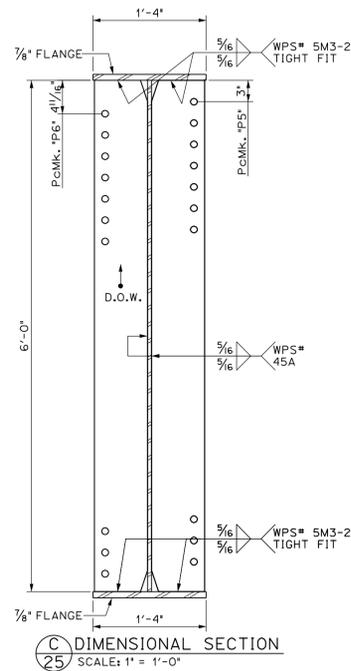
BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G4-E			BRIDGE GIRDER ASSEMBLY	70'-0 3/8'	17,100#	
		1	WP32	R 3/8" x 72'	70'-0 3/8'	9700#	CVN
		1	TF40	R 7/8" x 16'	70'-0 3/8'	3350#	CVN
		1	BF40	R 7/8" x 16'	69'-11'	3350#	CVN
		1	P2	SEE SHEET M2			
		1	P3	SEE SHEET M2			
		1	P4	SEE SHEET M2			
		2	P5	SEE SHEET M2			
		2	P6	SEE SHEET M2			



A DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



B DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



C DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 6/6/16

By: George Bogue

This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subcontractors.

Stantec

PROJECT No. IM 089-2(43)
ITEM No. 506.55

FINISH	SSPC SP6			
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W			
HOLES	15/16" Ø U.N.O.			
ELECTRODES	PER WELD PROCEDURE			
WELDS	PER WELD PROCEDURE			
SURFACE PREP	SSPC SP6			

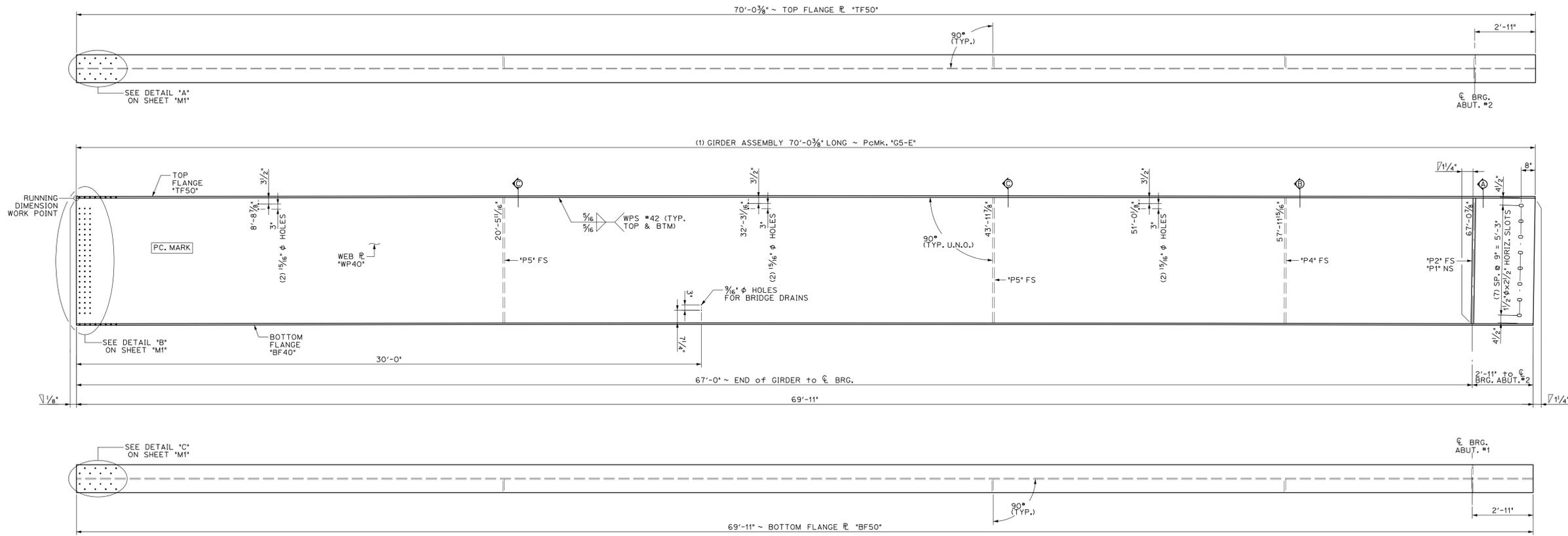
NO	DATE	DESCRIPTION	BY
REVISIONS			

ARC
ENTERPRISES, INC.

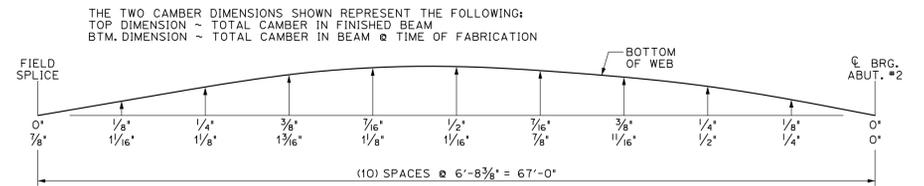
ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
P.O. BOX 120 KINGFIELD, ME, 04947
PHONE: (207) 265-2646 - FAX: (207) 265-4054

DRAFTER	JJH	GIRDER "G4-E"	PROJECT NO.	14-148
DATE	NOV. 2014	WATERBURY VT. BRIDGE 46A	DWG. NO.	25
CHECKED	DLM	1-89 EXIT RAMP over STOWE ST. & THATCHER BROOK		
DATE	NOV. 2014	BECK & BELLUCCI		

Vermont Agency of Transportation
RECEIVED
CK'D BY Stantec OK'D BY D Bonnaue
December 17, 2015
RESUBMIT No Approved
By D Bonnaue DATE 01/06/16

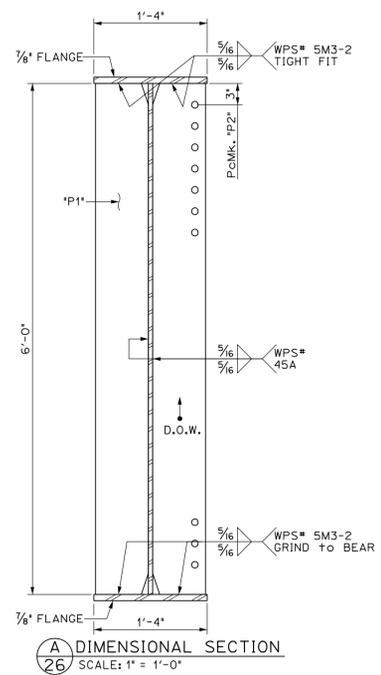


1
26 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G5-E"
SCALE: 3/8" = 1'-0"

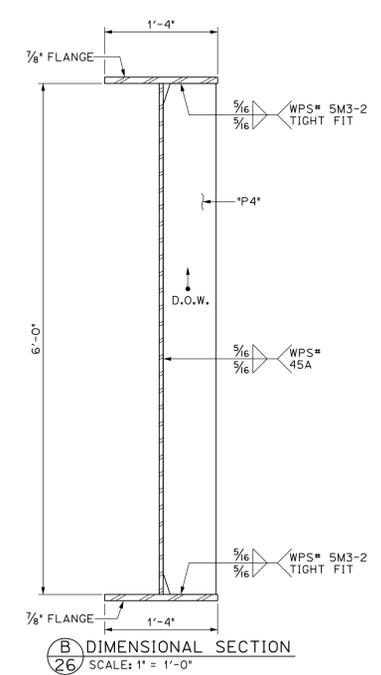


GIRDER "G5-E" CAMBER
N.T.S.

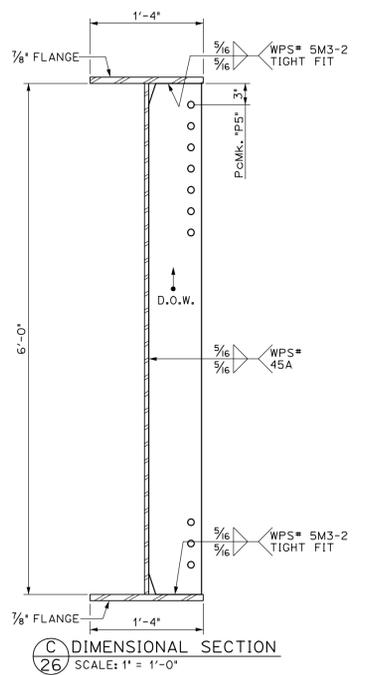
BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G5-E			BRIDGE GIRDER ASSEMBLY	70'-0 3/8"	16,950#	
		1	WP40	ℓ 3/8" x 72'	70'-0 3/8"	9700#	CVN
		1	TF50	ℓ 7/8" x 16'	70'-0 3/8"	3350#	CVN
		1	BF50	ℓ 7/8" x 16'	69'-11"	3350#	CVN
		1	P1	SEE SHEET M2			
		1	P2	SEE SHEET M2			
		1	P4	SEE SHEET M2			
		2	P5	SEE SHEET M2			



A DIMENSIONAL SECTION
26 SCALE: 1" = 1'-0"



B DIMENSIONAL SECTION
26 SCALE: 1" = 1'-0"



C DIMENSIONAL SECTION
26 SCALE: 1" = 1'-0"

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 6/6/16

By: George Bogue

This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subcontractors.

Vermont Agency of Transportation
RECEIVED
C'D BY Stantec OK'D BY D Bonnaeu
December 17, 2015
RESUBMIT No Approved
BY D Bonnaeu DATE 01/06/16

PROJECT No. IM 089-2(43)
ITEM No. 506.55

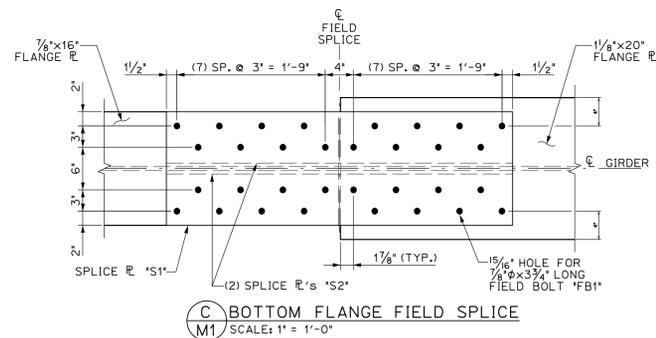
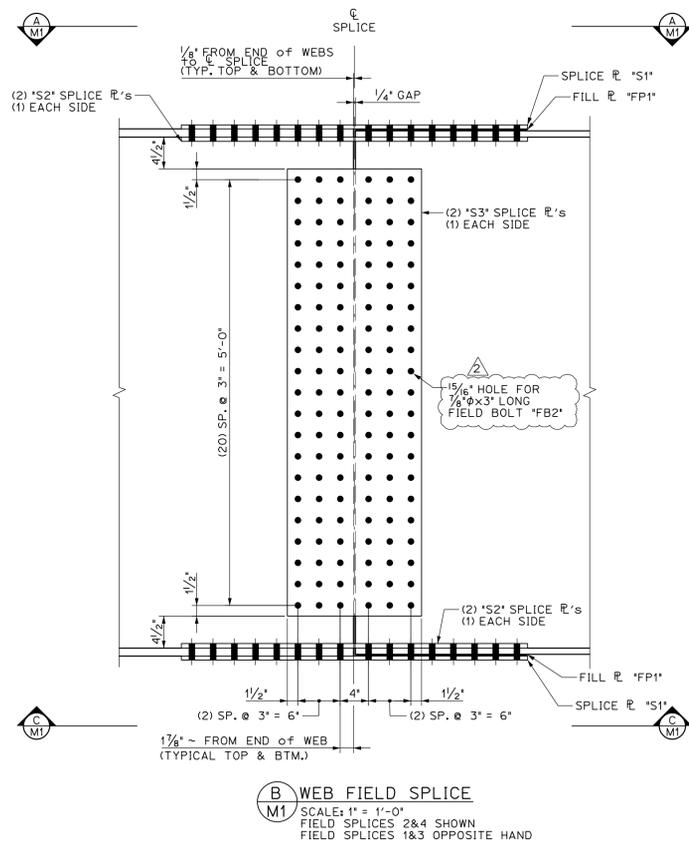
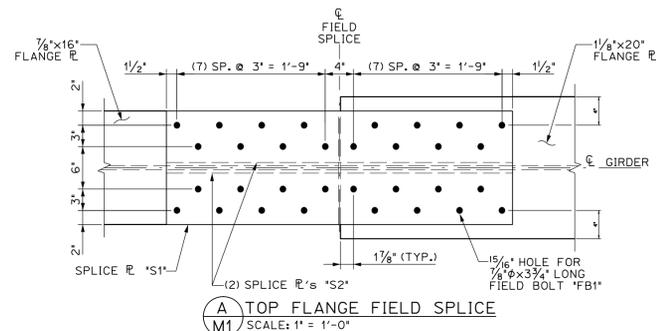
FINISH	SSPC SP6			
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W			
HOLES	15/16" Ø U.N.O.			
ELECTRODES	PER WELD PROCEDURE			
WELDS	PER WELD PROCEDURE			
SURFACE PREP	SSPC SP6			

NO	DATE	DESCRIPTION	BY
REVISIONS			

ARC ENTERPRISES, INC.

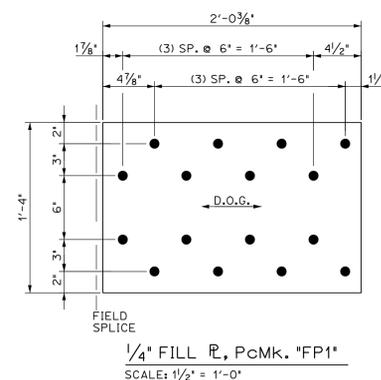
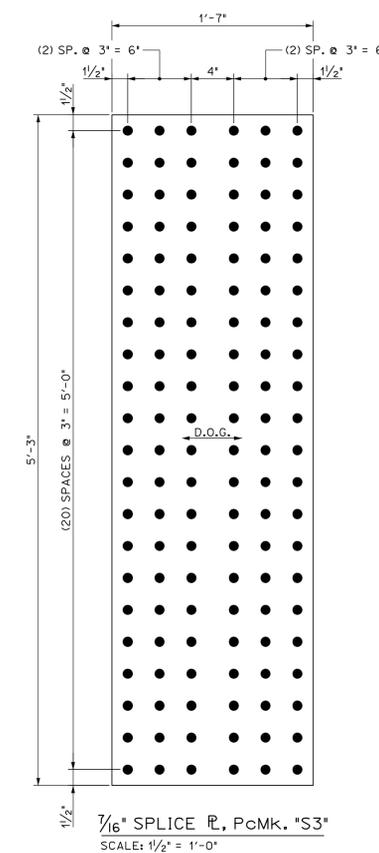
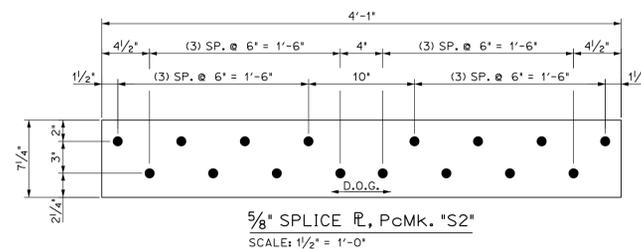
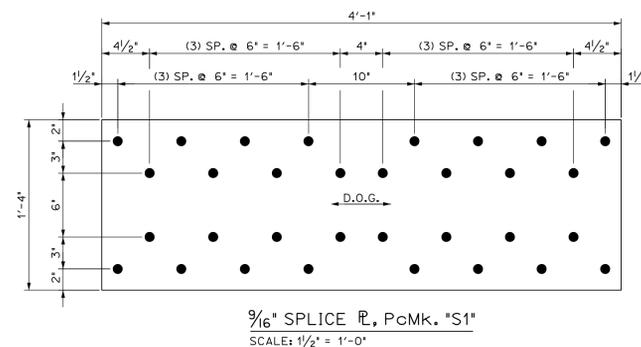
ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
P.O. BOX 120 KINGFIELD, ME. 04947
PHONE: (207) 265-2646 - FAX: (207) 265-4054

DRAFTER	JJH	GIRDER "G5-E"	PROJECT NO.	14-148
DATE	NOV. 2014	WATERBURY VT. BRIDGE 46A	DWG. NO.	26
CHECKED	DLM	1-89 EXIT RAMP over STOWE ST. & THATCHER BROOK		
DATE	NOV. 2014	BECK & BELLUCCI		



COMPLETE BOLT SCHEDULE				
NO. BOLTS	PIECE MARK	LENGTH	DESCRIPTION	LOCATION
1280	FB1	3 3/4'	7/16" φ BOLT w/N&W (WEATHERING) ASTM A325, TYPE 3	TOP & BTM. FLANGES FIELD SPLICE
2680	FB2	3'	7/16" φ BOLT w/N&W (WEATHERING) ASTM A325, TYPE 3	-WEB FIELD SPLICE -ABUTMENT DIAPHRAGMS
1272	FB3	2 1/2'	7/16" φ BOLT w/N&W (WEATHERING) ASTM A325, TYPE 3	-INTERMEDIATE DIAPHRAGMS -U1" & U2" TYPE UTILITY SUPPORTS
160	FB4	3 1/4'	7/16" φ BOLT w/N&W (WEATHERING) ASTM A325, TYPE 3	PIER DIAPHRAGMS
FIELD BOLT 'FB5' WAS ELIMINATED WHEN BOLT LENGTHS WERE ADJUSTED FOR DTI'S				

BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
40	S1			PL 5/16" x 16"	4'-1"	125# EACH	CVN
80	S2			PL 5/16" x 7 1/4"	4'-1"	65# EACH	CVN
40	S3			PL 7/16" x 19"	5'-3"	150# EACH	CVN
40	FP1			FILL PL 1/4" x 16"	2'-0 3/8"	30# EACH	



APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements	X	
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 6/6/16		
By: George Bogue		

This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subcontractors.

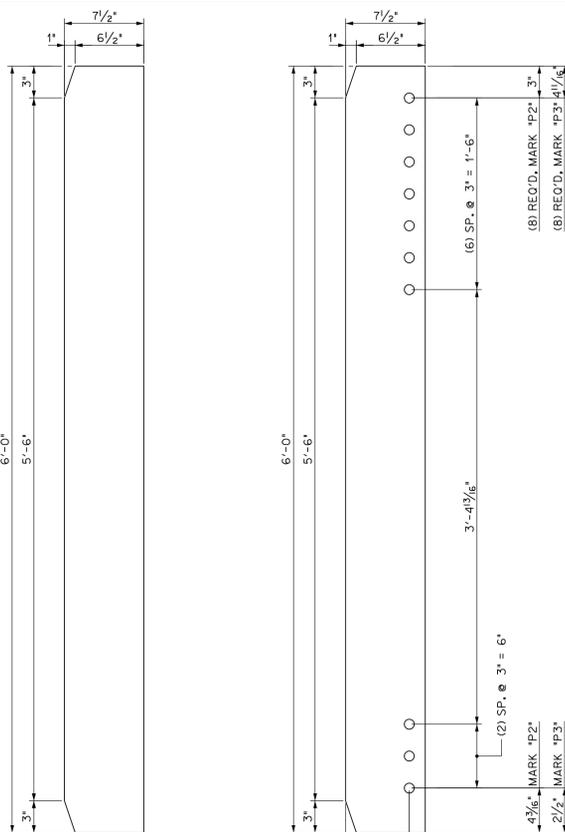
Vermont Agency of Transportation
RECEIVED
CK'D BY Stantec OK'D BY D.Bonneau
December 17, 2015
RESUBMIT No Approved
BY D.Bonneau DATE 01/06/16

PROJECT No. IM 089-2(43)
ITEM No. 506.55

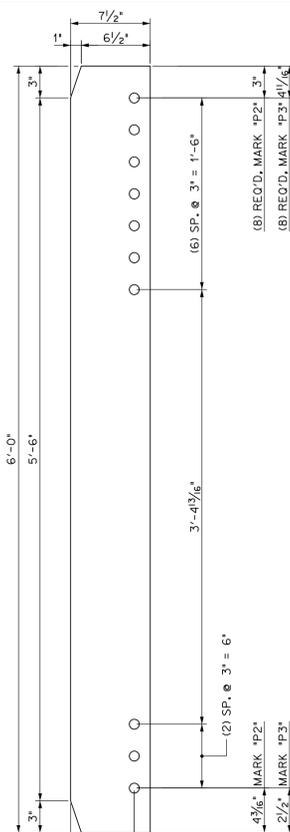
FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" Ø U.N.O.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE	2	12/7/15 BOLTS ADJUSTED FOR DTI'S JJH
SURFACE PREP	SSPC SP6		

REVISIONS			
NO	DATE	DESCRIPTION	BY

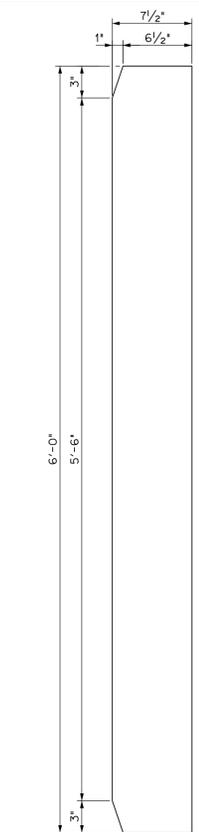
	ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED P.O. BOX 120 KINGFIELD, ME 04947 PHONE: (207) 265-2646 - FAX: (207) 265-4054		PROJECT NO.
			14-148
DRAFTER	JUH	MISCELLANEOUS DETAILS	
DATE	NOV. 2014	WATERBURY VT. BRIDGE 48A	
CHECKED	DLM	1-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO.
DATE	NOV. 2014	BECK & BELLUCCI	M1



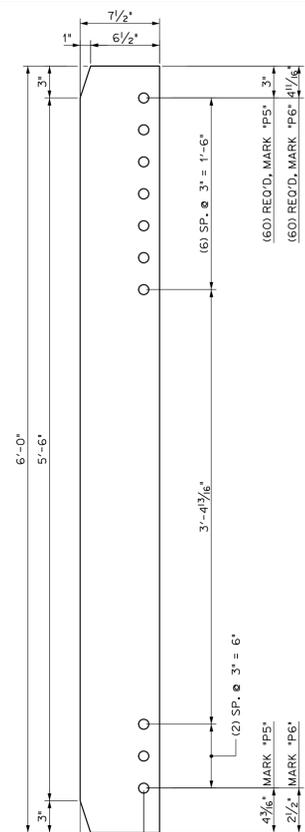
1/8" BEARING PLATE, MARK "P1"
 SCALE: 1/2" = 1'-0"
 FOR USE ON FASCIA GIRDERS
 @ ABUTMENTS



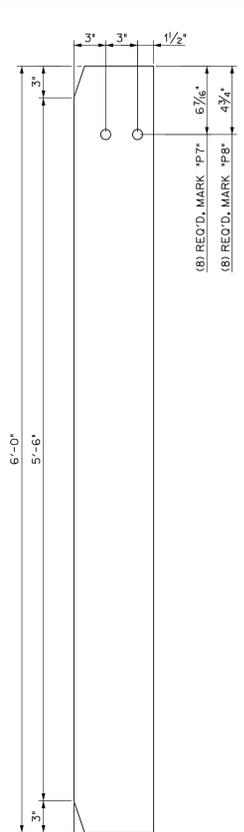
1/8" BEARING PLATES, MARK "P2"
 SCALE: 1/2" = 1'-0"
 FOR USE @ ABUTMENTS



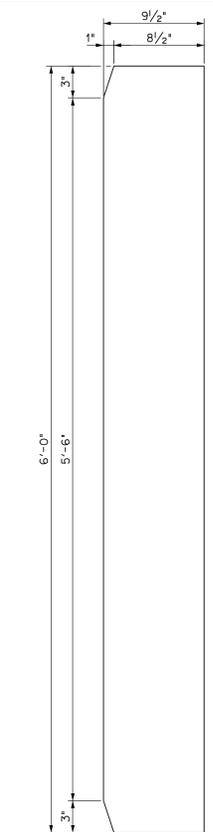
1/2" STIFFENER PLATE, MARK "P4"
 SCALE: 1/2" = 1'-0"



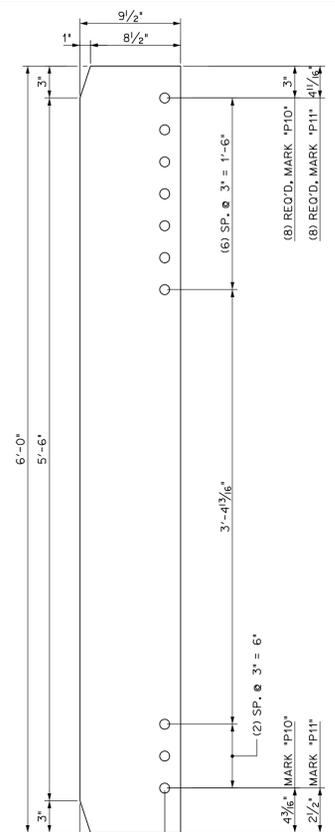
1/2" CONNECTION PLATES, MARK "P5"
 SCALE: 1/2" = 1'-0"



1/2" CONNECTION PLATES, MARK "P8"
 SCALE: 1/2" = 1'-0"
 FOR USE AS ITS SUPPORT
 @ TRANSVERSE STIFFENER LOCATIONS

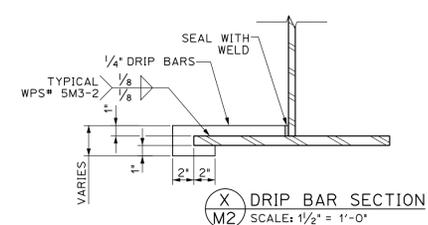


1/4" BEARING PLATE, MARK "P9"
 SCALE: 1/2" = 1'-0"
 FOR USE ON FASCIA GIRDERS
 @ PIERS

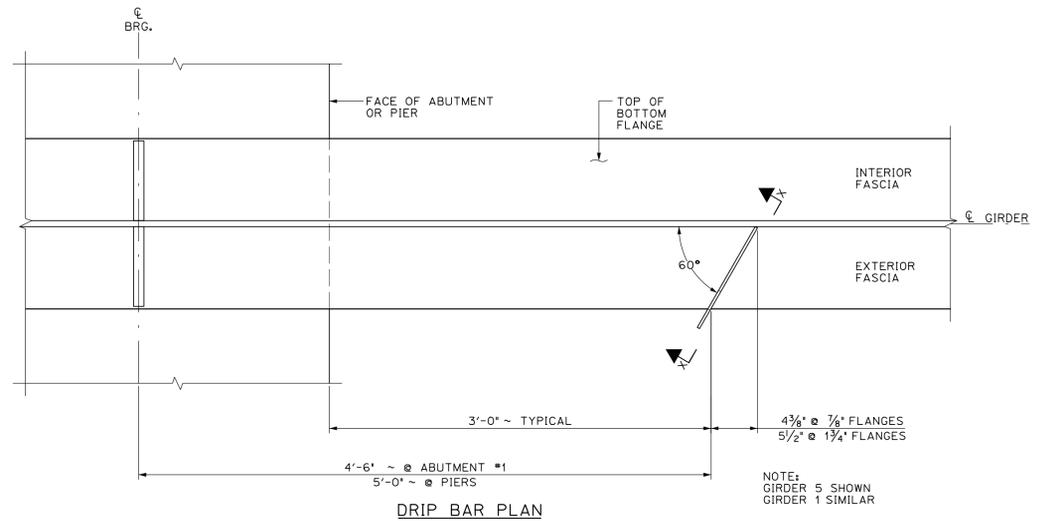


1/4" BEARING PLATES, MARK "P10"
 SCALE: 1/2" = 1'-0"
 FOR USE @ PIERS

BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
4	P1			1/8" x 7 1/2"	6'-0"	135#	EACH
8	P2			1/8" x 7 1/2"	6'-0"	135#	EACH
8	P3			1/8" x 7 1/2"	6'-0"	135#	EACH
34	P4			1/2" x 7 1/2"	6'-0"	80#	EACH
60	P5			1/2" x 7 1/2"	6'-0"	80#	EACH
60	P6			1/2" x 7 1/2"	6'-0"	80#	EACH
8	P7			1/2" x 7 1/2"	6'-0"	80#	EACH
8	P8			1/2" x 7 1/2"	6'-0"	80#	EACH
4	P9			1/4" x 9 1/2"	6'-0"	250#	EACH
8	P10			1/4" x 9 1/2"	6'-0"	250#	EACH
8	P11			1/4" x 9 1/2"	6'-0"	250#	EACH

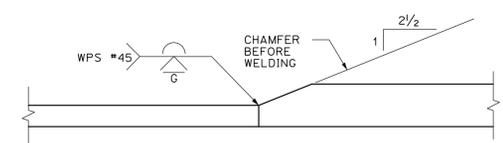


DRIP BAR SECTION
 SCALE: 1/2" = 1'-0"



DRIP BAR PLAN

NOTE: GIRDER 5 SHOWN
 GIRDER 1 SIMILAR



FLANGE THICKNESS TRANSITION
 SCALE: 3" = 1'-0"

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements

APPROVED AS NOTED

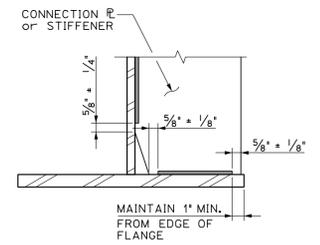
REVISE AND RESUBMIT

NOT REVIEWED

Date: 6/6/16

By: George Bogue

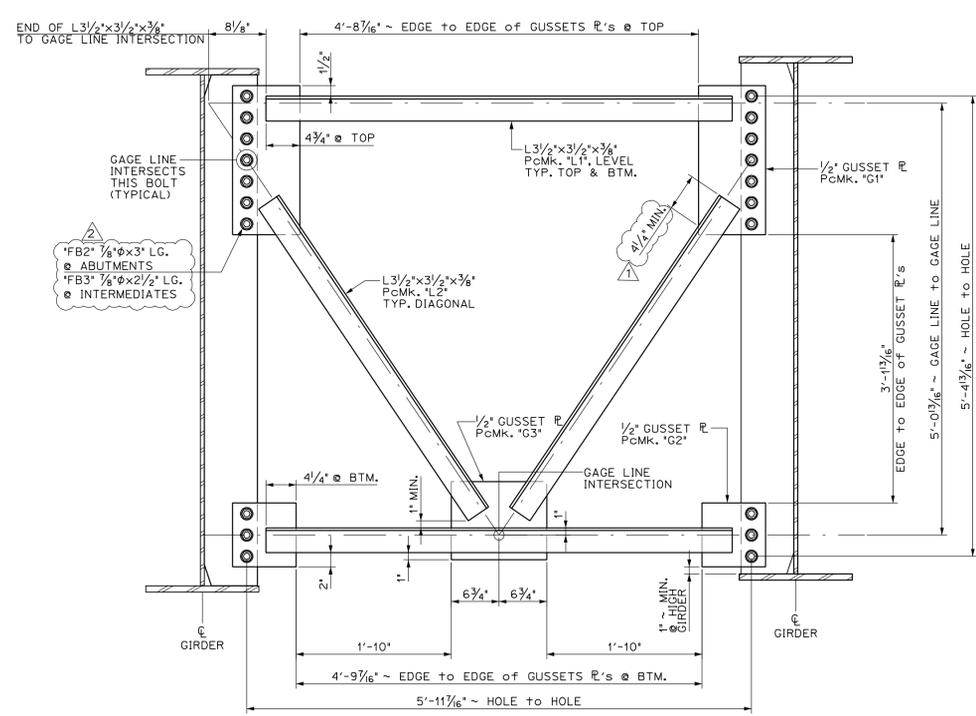
This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subcontractors.



TYPICAL CONNECTION PLATE WELD TERMINATION DETAIL
 N.T.S.

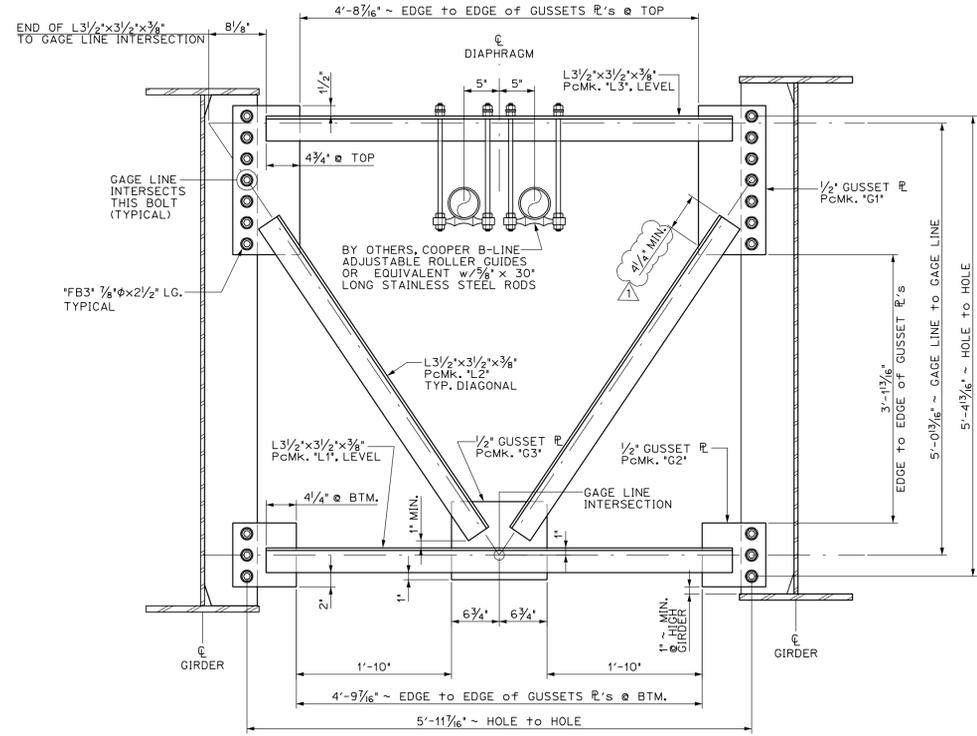
Vermont Agency of Transportation
RECEIVED
 CK'D BY Stantec OK'D BY D Bonnaue
 December 17, 2015
 RESUBMIT No Approved
 BY D Bonnaue DATE 01/06/16

PROJECT No. IM 089-2(43) ITEM No. 506.55			
FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" Ø U.N.O.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP	SSPC SP6		
	NO	DATE	DESCRIPTION
REVISIONS			
		ARC ENTERPRISES, INC. ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED P.O. BOX 120 KINGFIELD, ME. 04947 PHONE: (207) 265-2646 - FAX: (207) 265-4054	
DRAFTER	JUH	MISCELLANEOUS DETAILS	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY VT. BRIDGE 48A	DWG. NO.
CHECKED	DLM	I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	M2
DATE	NOV. 2014	BY: BECK & BELLUCCI	



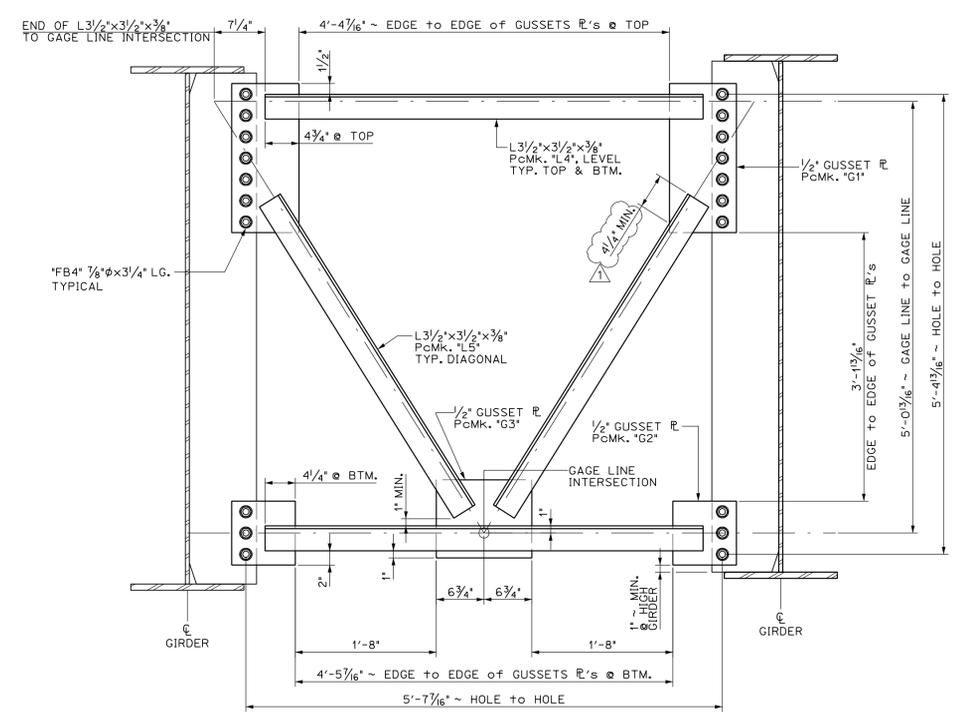
A "D1" TYPE DIAPHRAGMS

M3 SCALE: 1" = 1'-0"
(53) REQ'D TOTAL, (8) ABUTMENTS, & (45) INTERMEDIATES



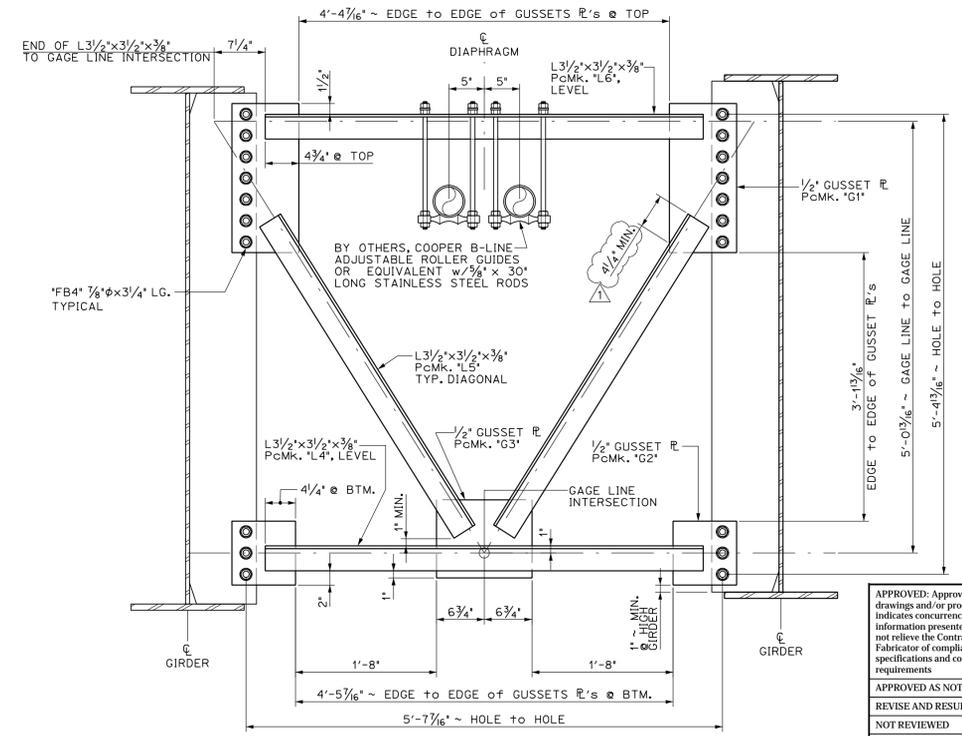
B "D2" TYPE DIAPHRAGMS

M3 SCALE: 1" = 1'-0"
(15) REQ'D TOTAL, (4) INTERMEDIATE LOCATIONS



C "D3" TYPE DIAPHRAGMS

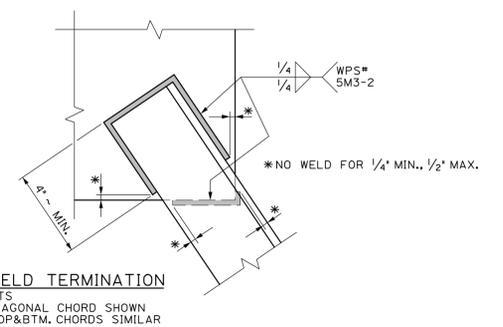
M3 SCALE: 1" = 1'-0"
(6) REQ'D TOTAL @ PIERS



D "D4" TYPE DIAPHRAGMS

M3 SCALE: 1" = 1'-0"
(2) REQ'D TOTAL @ PIERS

BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
53	D1			INTERM. & ABUT. DIAPHRAGM		295# EACH	
		106	L1	L3/2 x 3/2 x 3/8	5'-6"	50# EACH	
		106	L2	L3/2 x 3/2 x 3/8	4'-5"	40# EACH	
		106	G1	1/2 x 9/2	1'-9"	30# EACH	
		106	G2	1/2 x 9"	0'-9"	15# EACH	
		53	G3	1/2 x 11"	1'-1 1/2"	25# EACH	
15	D2			INTERMEDIATE DIAPHRAGMS		295# EACH	
		15	L1	L3/2 x 3/2 x 3/8	5'-6"	50# EACH	
		30	L2	L3/2 x 3/2 x 3/8	4'-5"	40# EACH	
		15	L3	L3/2 x 3/2 x 3/8 w/UTILITY HOLES	5'-6"	50# EACH	
		30	G1	1/2 x 9/2	1'-9"	30# EACH	
		30	G2	1/2 x 9"	0'-9"	15# EACH	
		15	G3	1/2 x 11"	1'-1 1/2"	25# EACH	
6	D3			PIER DIAPHRAGMS		295# EACH	
		12	L4	L3/2 x 3/2 x 3/8	5'-2"	50# EACH	
		12	L5	L3/2 x 3/2 x 3/8	4'-3 3/4"	40# EACH	
		12	G1	1/2 x 9/2	1'-9"	30# EACH	
		12	G2	1/2 x 9"	0'-9"	15# EACH	
		6	G3	1/2 x 11"	1'-1 1/2"	25# EACH	
2	D4			PIER DIAPHRAGMS		295# EACH	
		2	L4	L3/2 x 3/2 x 3/8	5'-2"	50# EACH	
		4	L5	L3/2 x 3/2 x 3/8	4'-3 3/4"	40# EACH	
		2	L6	L3/2 x 3/2 x 3/8 w/UTILITY HOLES	5'-2"	50# EACH	
		4	G1	1/2 x 9/2	1'-9"	30# EACH	
		4	G2	1/2 x 9"	0'-9"	15# EACH	
		2	G3	1/2 x 11"	1'-1 1/2"	25# EACH	



WELD TERMINATION
NTS
DIAGONAL CHORD SHOWN
TOP & BTM. CHORDS SIMILAR

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements	
APPROVED AS NOTED	
REVISE AND RESUBMIT	
NOT REVIEWED	
Date: 6/6/16	



By: George Bogue

This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all trades.

Vermont Agency of Transportation
RECEIVED
CK'D BY Stantec OK'D BY D. Borneau
December 17, 2015
RESUBMIT No Approved
BY D. Borneau DATE 01/06/16

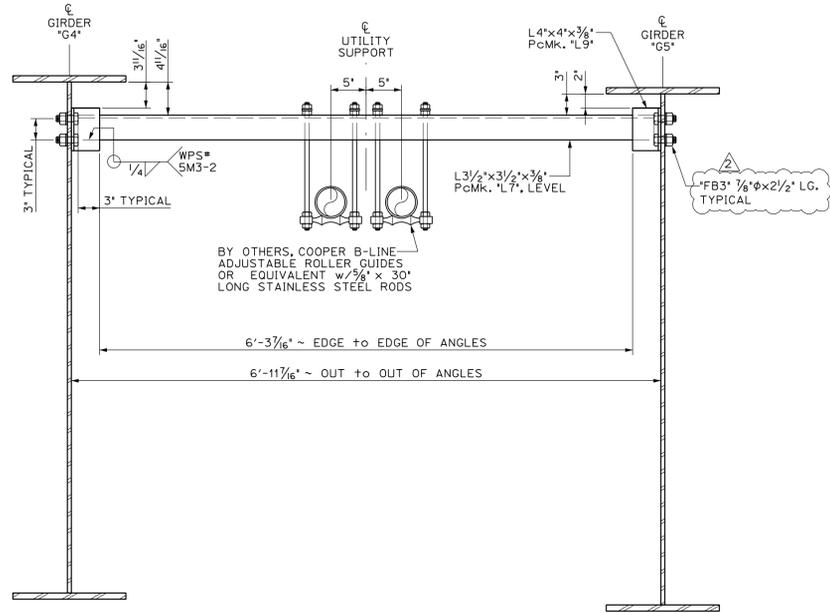
PROJECT No. IM 089-2(43)
ITEM No. 506.55

FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" Ø U.N.O.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE	2	12/7/15 BOLTS ADJUSTED FOR DTIs JJH
SURFACE PREP	SSPC SP6	1	2/17/15 MINIMUM WELD CALL-OUT JJH
		NO	DATE DESCRIPTION BY

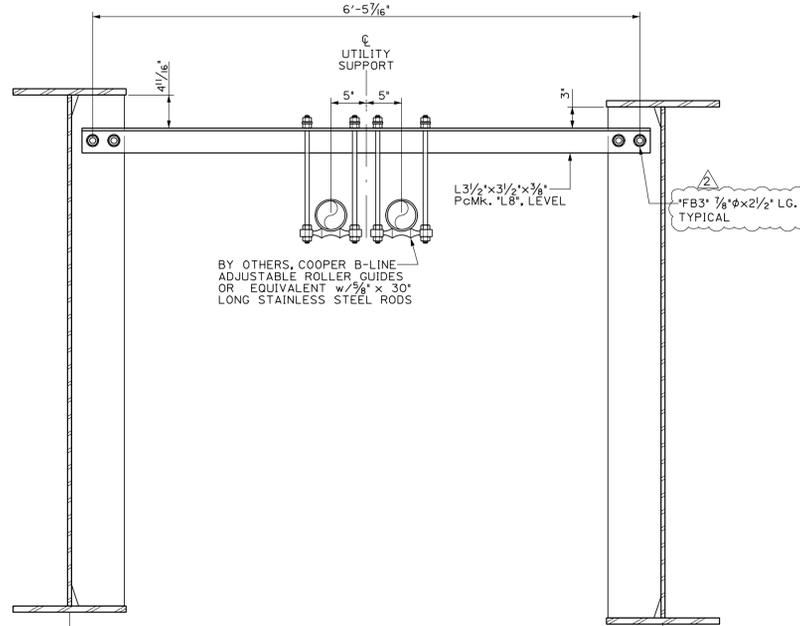


ADVANCED RESOURCES & CONST.
ENTERPRISES, INCORPORATED
P.O. BOX 120 KINGFIELD, ME. 04947
PHONE: (207) 265-2646 - FAX: (207) 265-4054

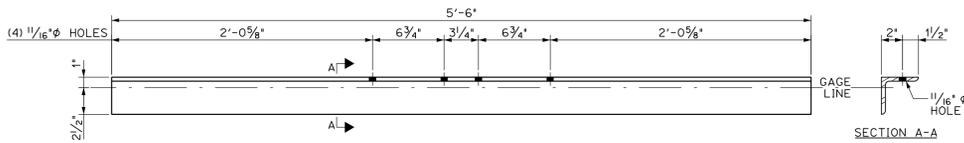
DRAFTER	JUH	DIAPHRAGM DETAILS	PROJECT NO.
DATE	NOV. 2014	WATERBURY VT. BRIDGE 48A	14-148
CHECKED	DLM	I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO.
DATE	NOV. 2014	BECK & BELLUCCI	M3



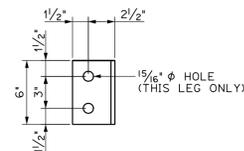
A "U1" INTERMEDIATE ITS SUPPORT
SCALE: 1" = 1'-0"
(10) REQ'D TOTAL



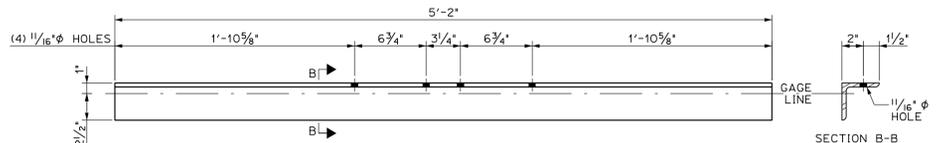
B "U2" INTERMEDIATE ITS SUPPORT
SCALE: 1" = 1'-0"
(8) REQ'D TOTAL
FOR USE ON TRANSVERSE STIFFENER LOCATIONS



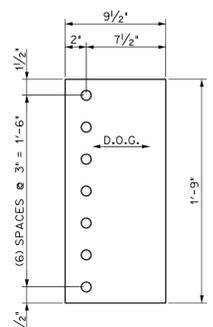
L3/2" x 3 1/2" x 3/8", Pcmk. "L3"
SCALE: 1/2" = 1'-0"
FOR USE ON "D2" TYPE DIAPHRAGMS



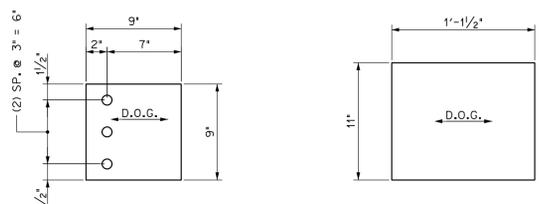
L4" x 4" x 3/8", Pcmk. "L9"
SCALE: 1/2" = 1'-0"
FOR USE ON "U1" TYPE SUPPORTS



L3 1/2" x 3 1/2" x 3/8", Pcmk. "L6"
SCALE: 1/2" = 1'-0"
FOR USE ON "D4" TYPE DIAPHRAGMS

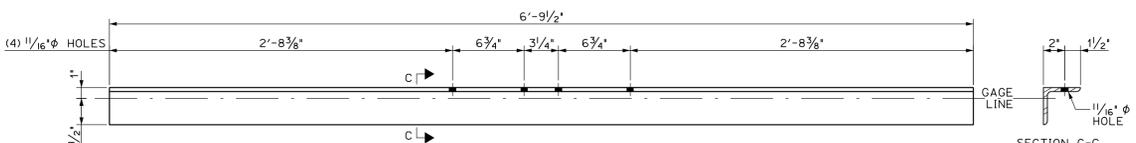


1/2" GUSSET PL, Pcmk. "G1"
SCALE: 1/2" = 1'-0"

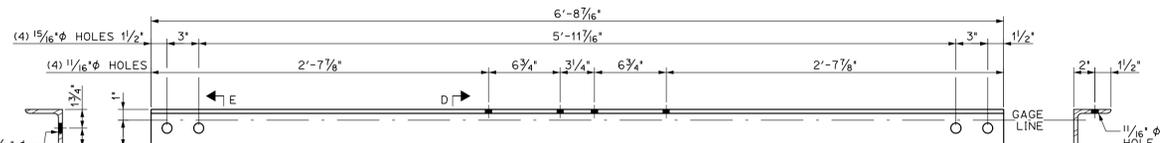


1/2" GUSSET PL, Pcmk. "G2"
SCALE: 1/2" = 1'-0"

1/2" GUSSET PL, Pcmk. "G2"
SCALE: 1/2" = 1'-0"



L3 1/2" x 3 1/2" x 3/8", Pcmk. "L7"
SCALE: 1/2" = 1'-0"
FOR USE ON "U1" TYPE SUPPORTS



L3 1/2" x 3 1/2" x 3/8", Pcmk. "L8"
SCALE: 1/2" = 1'-0"
FOR USE ON "U2" LOCATIONS

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 6/6/16

By: George Bogue

This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings. Responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subcontractors.

BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
10	U1			INTERMEDIATE ITS SUPPORT		70# EACH	
		10	L7	L3 1/2" x 3 1/2" x 3/8"	6'-9 1/2"	60# EACH	
		20	L9	L4" x 4" x 3/8"	0'-6"	5# EACH	
8	U2			INTERMEDIATE ITS SUPPORT		60# EACH	
		8	L8	L3 1/2" x 3 1/2" x 3/8"	6'-8 7/16"	60# EACH	
121	**L1			L3 1/2" x 3 1/2" x 3/8"	5'-6"	50# EACH	
136	**L2			L3 1/2" x 3 1/2" x 3/8"	4'-5"	40# EACH	
15	L3			L3 1/2" x 3 1/2" x 3/8" w/UTILITY HOLES	5'-6"	50# EACH	
14	**L4			L3 1/2" x 3 1/2" x 3/8"	5'-2"	50# EACH	
16	**L5			L3 1/2" x 3 1/2" x 3/8"	4'-3 3/4"	40# EACH	
2	L6			L3 1/2" x 3 1/2" x 3/8" w/UTILITY HOLES	5'-2"	50# EACH	
10	L7			L3 1/2" x 3 1/2" x 3/8"	6'-9 1/2"	60# EACH	
8	L8			L3 1/2" x 3 1/2" x 3/8"	6'-8 7/16"	60# EACH	
20	L9			L4" x 4" x 3/8"	0'-6"	5# EACH	
152	G1			PL 1/2" x 9 1/2"	1'-9"	30# EACH	
152	G2			PL 1/2" x 9"	0'-9"	15# EACH	
76	G3			PL 1/2" x 11"	1'-1 1/2"	25# EACH	

NOTE: PIECES MARKED WITH A DOUBLE ASTERISK (**) IN THIS BILL OF MATERIAL HAVE BEEN INCLUDED FOR QUANTITY PURPOSES ONLY. NO INDIVIDUAL PIECE MARK DETAIL HAS BEEN INCLUDED, THE MATERIAL IS JUST TO BE CUT TO THE DIMENSIONS SHOWN.

Vermont Agency of Transportation
RECEIVED

CK'D BY Stantec OK'D BY D Bonnaieu
December 17, 2015
RESUBMIT No Approved
BY D Bonnaieu DATE 01/06/16

PROJECT No. IM 089-2(43)
ITEM No. 506.55

FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16" Ø U.N.O.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE	2	12/7/15 BOLTS ADJUSTED FOR DTIs JJH
SURFACE PREP	SSPC SP6		

REVISIONS			
NO	DATE	DESCRIPTION	BY

ARC
ENTERPRISES, INC.

ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
P.O. BOX 120 KINGFIELD, ME. 04947
PHONE: (207) 265-2646 - FAX: (207) 265-4054

DRAFTER	JUH	UTILITIES & MISC. PIECE MARK DETAILS	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY VT. BRIDGE 48A	DWG. NO.
CHECKED	DLM	I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	M4
DATE	NOV. 2014	BECK & BELLUCCI	