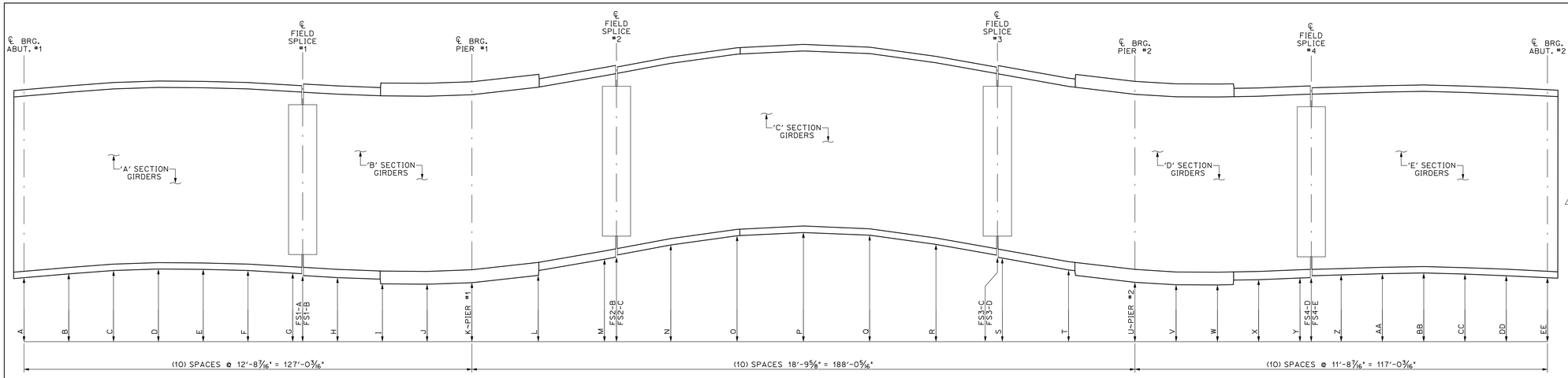
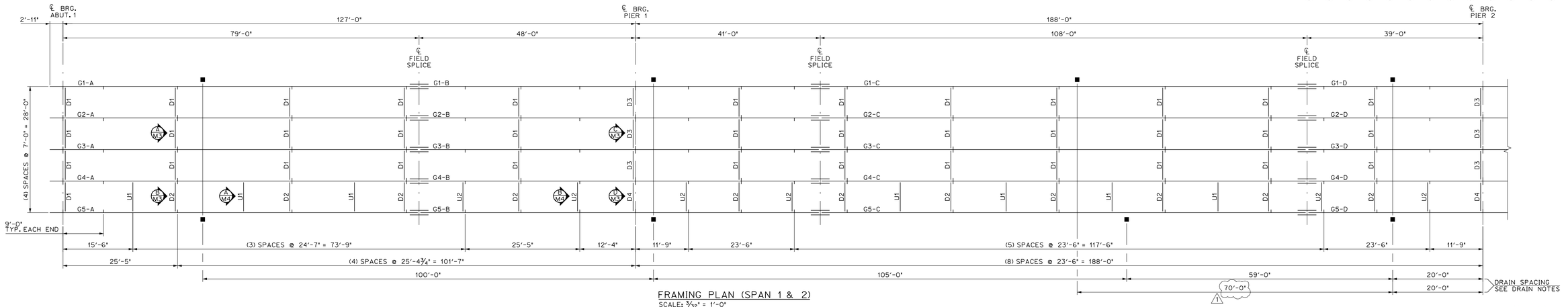


BLOCKING DIAGRAM ~ SEE CHART

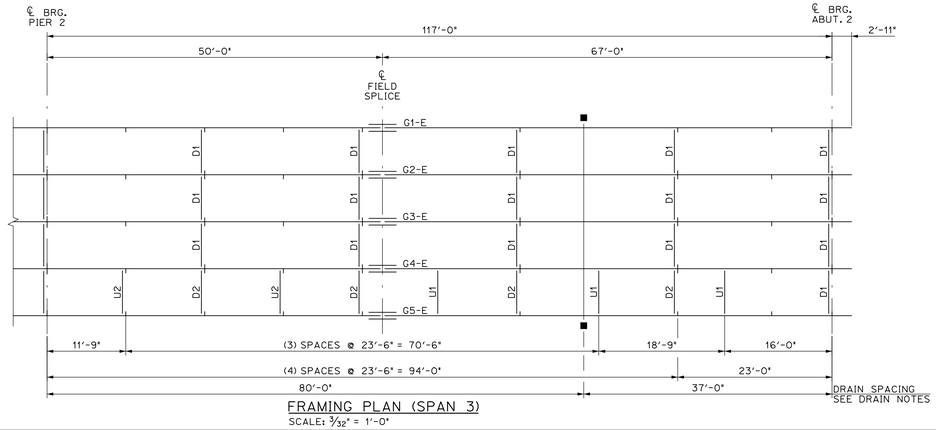
NTS
ALL DIMENSIONS ARE TO THE OUTSIDE OF BOTTOM FLANGES

	ABUT.1 ℄ BRG. 'A'	'B'	'C'	'D'	'E'	'F'	'G'	FIELD SPLICE #1 'A' SECTION 'FS1-A'	FIELD SPLICE #1 'B' SECTION 'FS1-A'	'H'	'I'	'J'	PIER 1 ℄ BRG. 'K'	'L'	'M'	FIELD SPLICE #2 'A' SECTION 'FS2-B'	FIELD SPLICE #2 'B' SECTION 'FS2-C'	'N'	'O'	'P'	'Q'	'R'	FIELD SPLICE #3 'A' SECTION 'FS3-C'	FIELD SPLICE #3 'B' SECTION 'FS3-D'	'S'	'T'	PIER 2 ℄ BRG. 'U'	'V'	'W'	'X'	'Y'	FIELD SPLICE #4 'A' SECTION 'FS4-D'	FIELD SPLICE #4 'B' SECTION 'FS4-E'	'Z'	'AA'	'BB'	'CC'	'DD'	'EE'
TYP. ALL GIRDERS	6"	6 1/2"	7"	7 3/16"	7 1/8"	7"	6 5/8"	6 9/16"	6 5/16"	6"	5 3/16"	5 1/8"	5 5/16"	6 5/16"	8 1/2"	8 13/16"	9 1/16"	10 7/16"	11 11/16"	12 3/16"	11 13/16"	10 9/16"	9 1/16"	8 13/16"	8 11/16"	7 1/16"	5 3/8"	5 1/16"	5"	5 3/4"	5 15/16"	6"	6 1/4"	6 3/8"	6 9/16"	6 5/8"	6 1/2"	6 1/4"	6"



FRAMING PLAN (SPAN 1 & 2)

SCALE: 3/32" = 1'-0"



FRAMING PLAN (SPAN 3)

SCALE: 3/32" = 1'-0"

GENERAL FABRICATION NOTES

MATERIAL SPECIFICATIONS

1.) ALL MATERIAL SHALL BE ASTM A709 GRADE 50W (UNO)

2.) ALL A709 GRADE 50 MATERIAL DENOTED "CVN" SHALL MEET THE CHARPY V-NOTCH TESTING REQUIREMENTS OF ZONE 2, H FREQUENCY: 15 FT-LB AT 40° (UP TO 2" WELDED)

ITEMS SHALL CALL OUT "CVN" FOR EACH APPLICABLE ITEM IN THE BILL OF MATERIALS

3.) 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

1.) DIE STAMPING IS ALLOWED IN SPECIFIC LOCATIONS WITH THE APPROVAL OF THE ENGINEER.

1 2.) 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)

3.) 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.

4.) FLANGE PLATE MATERIAL SHALL HAVE AN EDGE HARDNESS NOT GREATER THAN HRc 30, ALLOWED per STANDARD SPEC. 506.09.

WELDING

1.) ALL WELDING PROCEDURES SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF SUBSECTION 506.10.

2.) 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 1/6 THE DEPTH OF THE WEB (TENSION AREA) ~ TESTED 100%
FOR THE REMAINING DEPTH OF WEB (COMPRESSION AREA) ~ TESTED 25 %

FOR 1/6 DEPTH OF THE WEB @ TOP & BTM. (STRESS REVERSAL) ~ TESTED 100%
THE REMAINING 2/3 OF THE WEB ~ TESTED 25%

3.) TERMINATE STIFFENER WELDS AS SHOWN IN THE "WELD TERMINATION DETAILS" ON SHEETS M2 & M3

FIELD CONNECTIONS

1 1.) FIELD BOLTS SHALL HAVE A HEAVY HEX NUT, HEX HEAD, AND ONE HARDENED WASHER EACH.

2.) 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.

3.) HARDENED WASHERS ARE REQUIRED OVER OVERSIZED HOLES.

CLEANING AND PAINTING

1 1.) UNPAINTED STEEL SHALL BE BLAST CLEANED TO SSPC SP-6 TO ACHIEVE A UNIFORM WEATHERED APPEARANCE.

1 DRAIN NOTES:

1. DRAIN SPACING HAS BEEN REVISED TO MATCH THE CONTRACT DETAILS BASED ON THE COMMENTS FOR THE RevO SUBMISSION.

2. 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	X	Stantec
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 2/19/15		
By: George Bogue		
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Vermont Agency of Transportation
RECEIVED
ON: February 18, 2015
and Checked for
CONFORMANCE
BY: D Bonneau DATE: 03/17/15

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

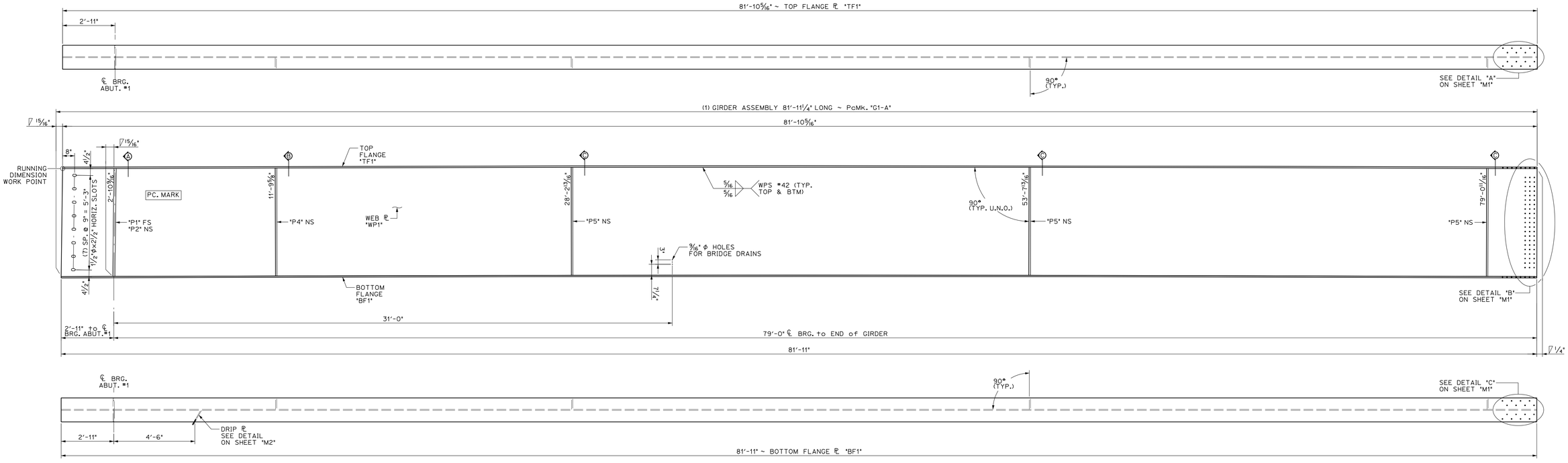
FINISH	N/A			
MATERIAL	SEE DETAIL SHEETS			
HOLES				
ELECTRODES	PER WELD PROCEDURE			
WELDS	PER WELD PROCEDURE			
SURFACE PREP		1	2/17/15	DRAIN LOCATION & NOTES JJH

REVISIONS

NO	DATE	DESCRIPTION	BY

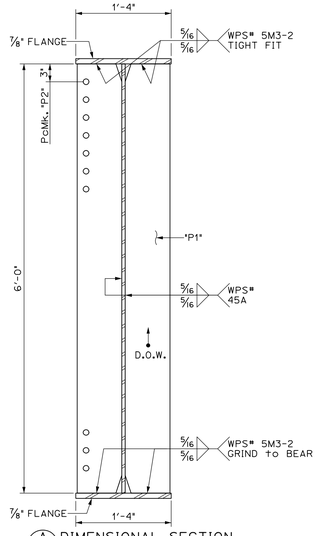
ARC ENTERPRISES, INC.
ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
P.O. BOX 120 KINGFIELD, ME. 04947
PHONE: (207) 265-2646 – FAX: (207) 265-4054

DRAFTER	JJH	FRAMING PLAN	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO. 1
CHECKED	DLM	SC: BECK & BELLUCCI	
DATE	NOV. 2014		

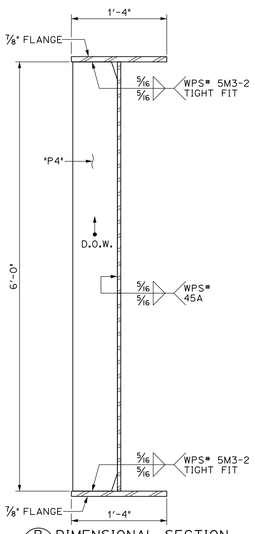


1 2 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G1-A"
SCALE: 3/8" = 1'-0"

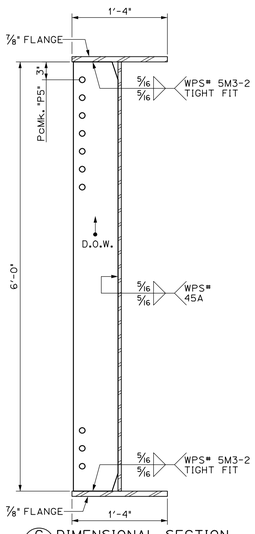
BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G1-A			BRIDGE GIRDER ASSEMBLY	81'-11 1/4"	19,800#	
		1	WP1	℄ 9/16" x 72"	81'-11 1/4"	11,300#	CVN
		1	TF1	℄ 7/8" x 16"	81'-10 5/16"	3950#	CVN
		1	BF1	℄ 7/8" x 16"	81'-11"	3950#	CVN
		1	P1	SEE SHEET M2			
		1	P2	SEE SHEET M2			
		1	P4	SEE SHEET M2			
		3	P5	SEE SHEET M2			



A 2 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

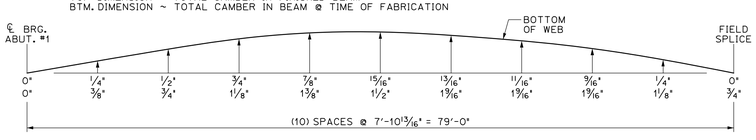


B 2 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



C 2 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

THE TWO CAMBER DIMENSIONS SHOWN REPRESENT THE FOLLOWING:
TOP DIMENSION ~ TOTAL CAMBER IN FINISHED BEAM
BTM. DIMENSION ~ TOTAL CAMBER IN BEAM @ TIME OF FABRICATION



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

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	Stantec
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 2/19/15		
By: George Bogue		
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Vermont Agency of Transportation
RECEIVED
ON: February 18, 2015
and Checked for
CONFORMANCE
BY: D Bonneau DATE: 03/17/15

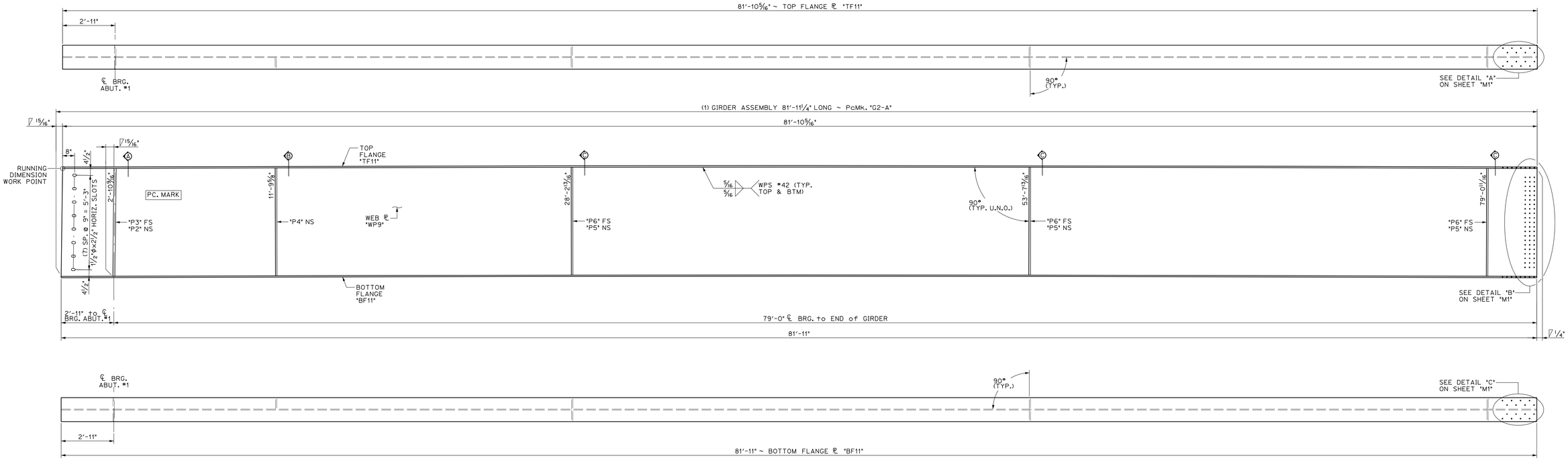
PROJECT No. IM 089-2(43)
ITEM No. 506.55

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

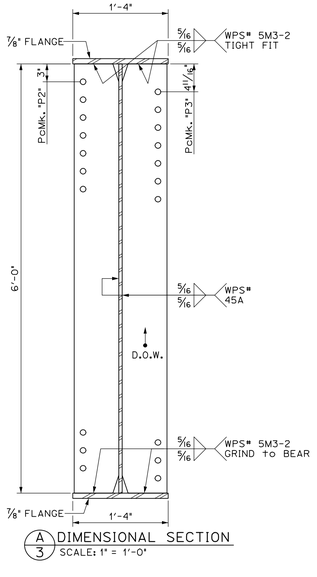
DRAFTER	JJH	GIRDER "G1-A"	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
CHECKED	DLM		DWG. NO. 2
DATE	NOV. 2014	SC: BECK & BELLUCCI	



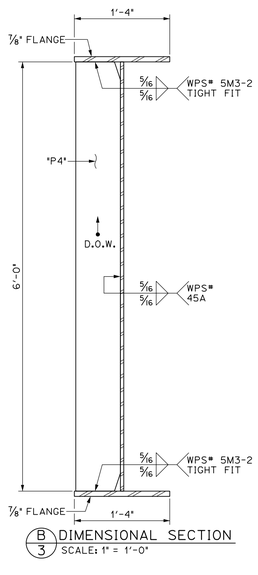
1 / 3 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G2-A"
SCALE: 3/8" = 1'-0"

BILL OF MATERIALS

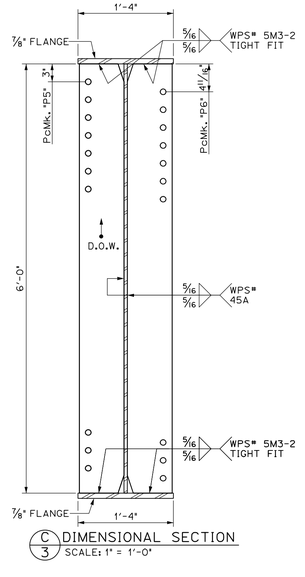
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G2-A			BRIDGE GIRDER ASSEMBLY	81'-11 1/4"	20,000#	
		1	WP9	℄ 9/16" x 72"	81'-11 1/4"	11,300#	CVN
		1	TF11	℄ 7/8" x 16"	81'-10 5/16"	3950#	CVN
		1	BF11	℄ 7/8" x 16"	81'-11"	3950#	CVN
		1	P2	SEE SHEET M2			
		1	P3	SEE SHEET M2			
		1	P4	SEE SHEET M2			
		3	P5	SEE SHEET M2			
		3	P6	SEE SHEET M2			



A 3 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

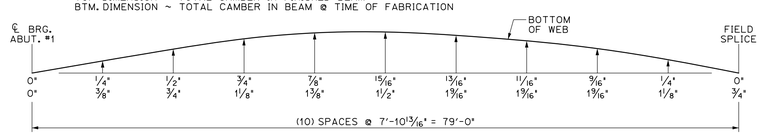


B 3 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



C 3 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

THE TWO CAMBER DIMENSIONS SHOWN REPRESENT THE FOLLOWING:
TOP DIMENSION ~ TOTAL CAMBER IN FINISHED BEAM
BTM. DIMENSION ~ TOTAL CAMBER IN BEAM @ TIME OF FABRICATION



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

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	Stantec
APPROVED AS NOTED		
REVISE and RESUBMIT		
NOT REVIEWED		
Date: 2/19/15		
By: George Bogue		

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Vermont Agency of Transportation
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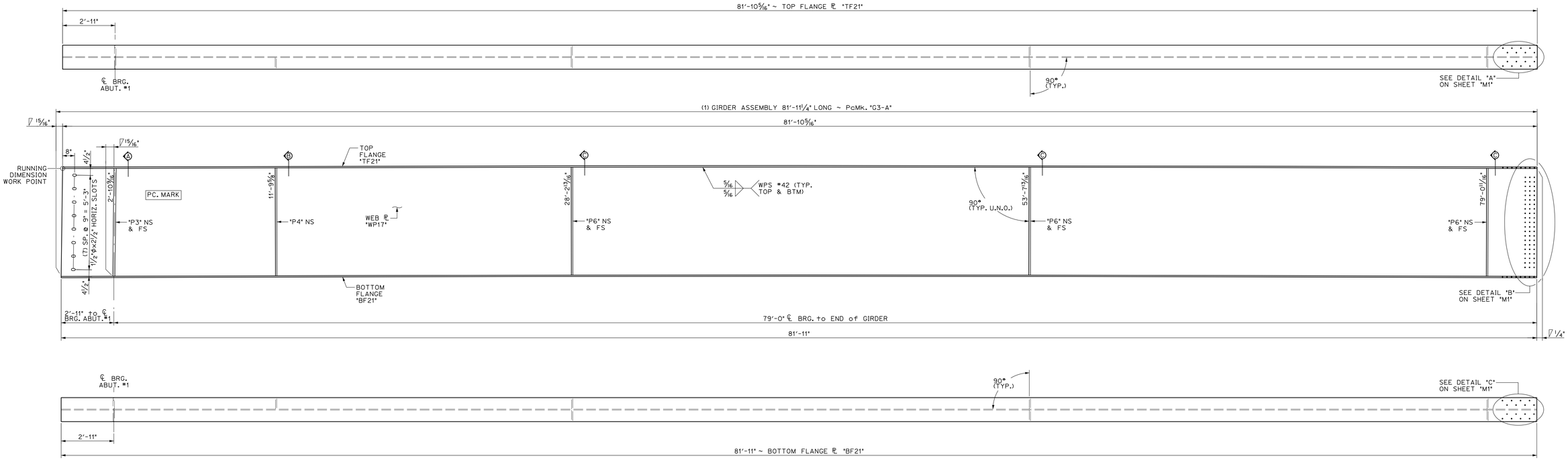
PROJECT No. IM 089-2(43)
ITEM No. 506.55

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 "G2-A"	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
CHECKED	DLM		DWG. NO. 3
DATE	NOV. 2014	SC: BECK & BELLUCCI	



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

THE TWO CAMBER DIMENSIONS SHOWN REPRESENT THE FOLLOWING:
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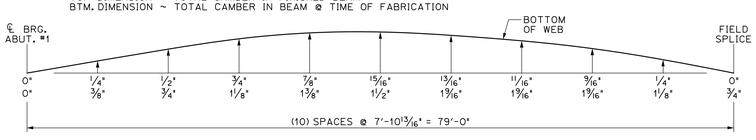
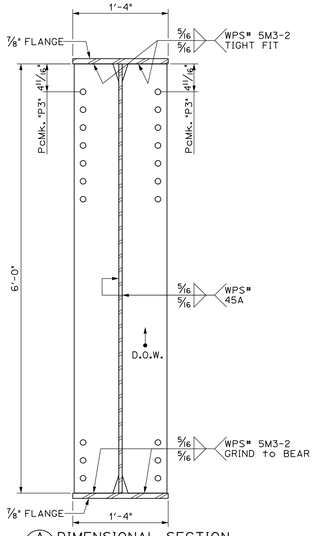
BTM. DIMENSION ~ TOTAL CAMBER IN BEAM @ TIME OF FABRICATION



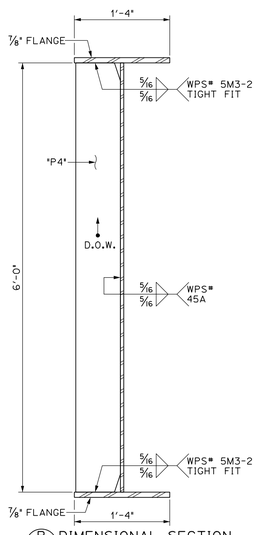
GIRDER "G3-A" CAMBER
N.T.S.

BILL OF MATERIALS

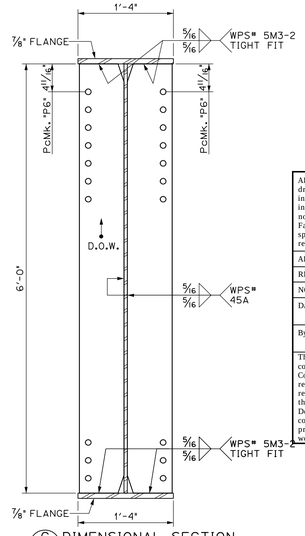
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G3-A			BRIDGE GIRDER ASSEMBLY	81'-11 1/4"	20,000#	
		1	WP17	℄ 5/16" x 72"	81'-11 1/4"	11,300#	CVN
		1	TF21	℄ 7/8" x 16"	81'-10 5/16"	3950#	CVN
		1	BF21	℄ 7/8" x 16"	81'-11"	3950#	CVN
		2	P3	SEE SHEET M2			
		1	P4	SEE SHEET M2			
		6	P6	SEE SHEET M2			



A 4 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



B 4 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



C 4 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

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APPROVED AS NOTED		
REVISE AND RESUBMIT		
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Date: 2/19/15		
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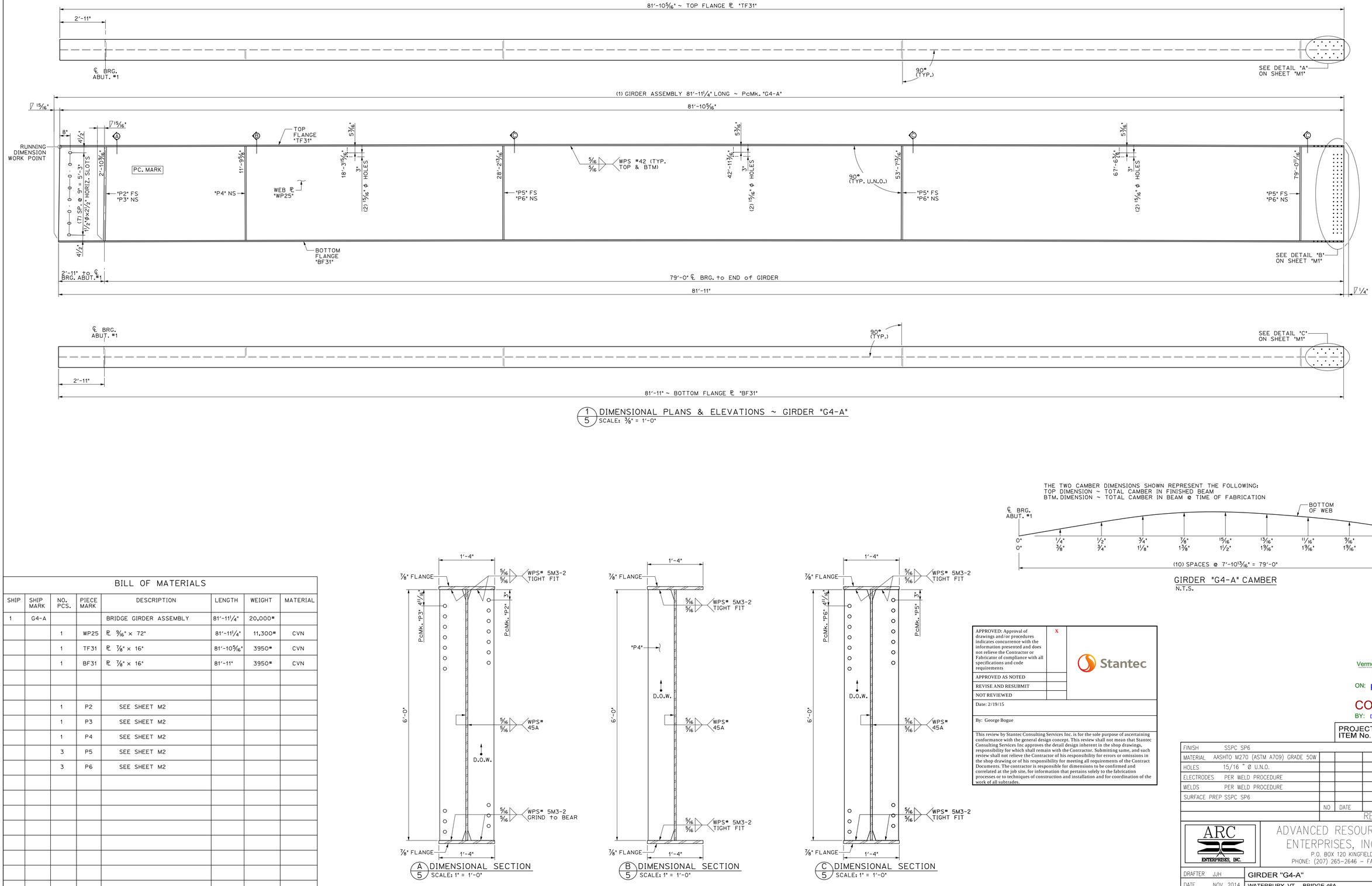
PROJECT No. IM 089-2(43)
ITEM No. 506.55

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	

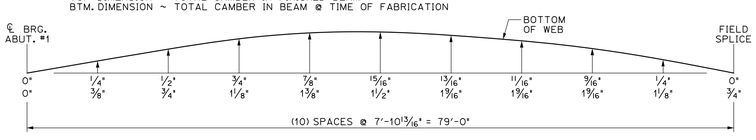
ARC ENTERPRISES, INC.
ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
P.O. BOX 120 KINGFIELD, ME. 04947
PHONE: (207) 265-2646 – FAX: (207) 265-4054

DRAFTER	JJH	GIRDER "G3-A"	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
CHECKED	DLM	SC: BECK & BELLUCCI	DWG. NO. 4
DATE	NOV. 2014		



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

THE TWO CAMBER DIMENSIONS SHOWN REPRESENT THE FOLLOWING:
TOP DIMENSION ~ TOTAL CAMBER IN FINISHED BEAM
BTM. DIMENSION ~ TOTAL CAMBER IN BEAM @ TIME OF FABRICATION



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

BILL OF MATERIALS

SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G4-A			BRIDGE GIRDER ASSEMBLY	81'-11 1/4"	20,000#	
		1	WP25	℄ 9/16" x 72"	81'-11 1/4"	11,300#	CVN
		1	TF31	℄ 7/8" x 16"	81'-10 5/16"	3950#	CVN
		1	BF31	℄ 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			

A 5 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

B 5 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

C 5 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	Stantec
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 2/19/15		
By: George Bogue		

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Vermont Agency of Transportation
RECEIVED
ON: February 18, 2015
and Checked for
CONFORMANCE
BY: D Bonneau DATE: 03/17/15

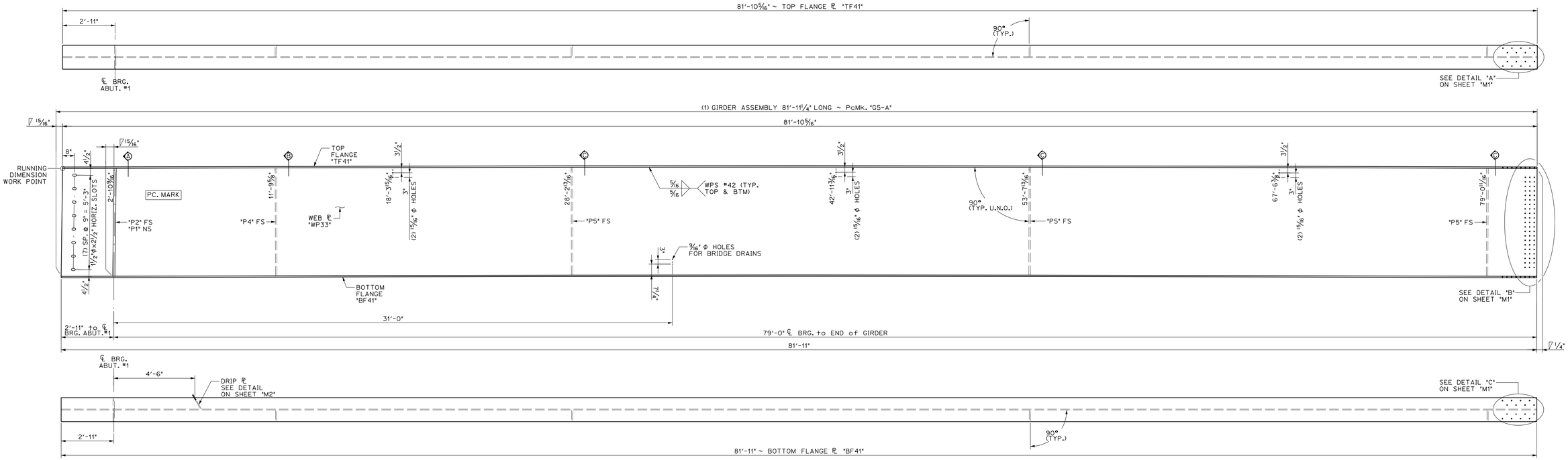
PROJECT No. IM 089-2(43)
ITEM No. 506.55

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	

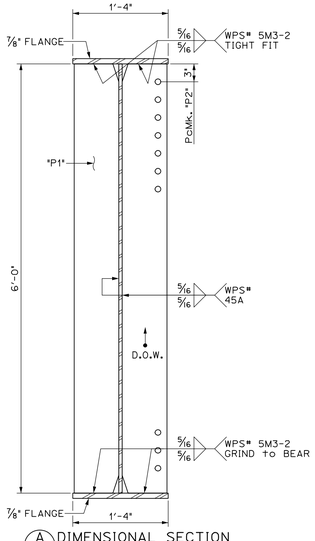
ARC ENTERPRISES, INC.
ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
P.O. BOX 120 KINGFIELD, ME. 04947
PHONE: (207) 265-2646 - FAX: (207) 265-4054

DRAFTER	JJH	GIRDER "G4-A"	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
CHECKED	DLM		DWG. NO. 5
DATE	NOV. 2014	SC: BECK & BELLUCCI	

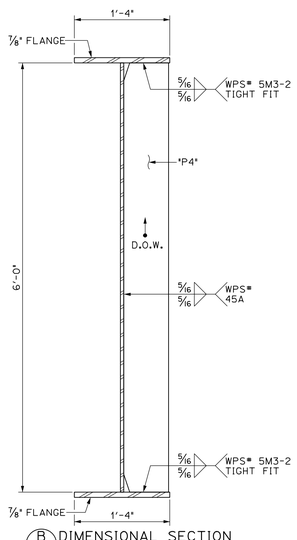


1/6 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G5-A"
SCALE: 3/8" = 1'-0"

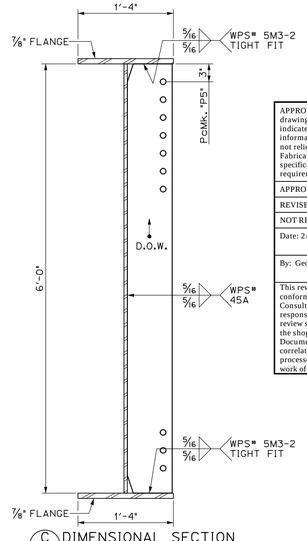
BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G5-A			BRIDGE GIRDER ASSEMBLY	81'-11 1/4"	19,800#	
		1	WP33	℄ 9/16" x 72"	81'-11 1/4"	11,300#	CVN
		1	TF41	℄ 7/8" x 16"	81'-10 5/16"	3950#	CVN
		1	BF41	℄ 7/8" x 16"	81'-11"	3950#	CVN
		1	P1	SEE SHEET M2			
		1	P2	SEE SHEET M2			
		1	P4	SEE SHEET M2			
		3	P5	SEE SHEET M2			



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

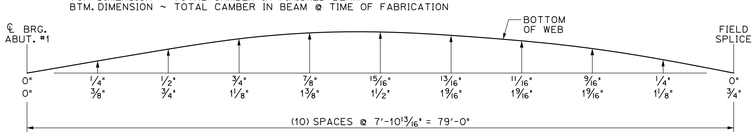


B 6 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



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

THE TWO CAMBER DIMENSIONS SHOWN REPRESENT THE FOLLOWING:
TOP DIMENSION ~ TOTAL CAMBER IN FINISHED BEAM
BTM. DIMENSION ~ TOTAL CAMBER IN BEAM @ TIME OF FABRICATION



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

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	Stantec
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 2/19/15		
By: George Bogue		
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Vermont Agency of Transportation
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BY: D Bonneau DATE: 03/17/15

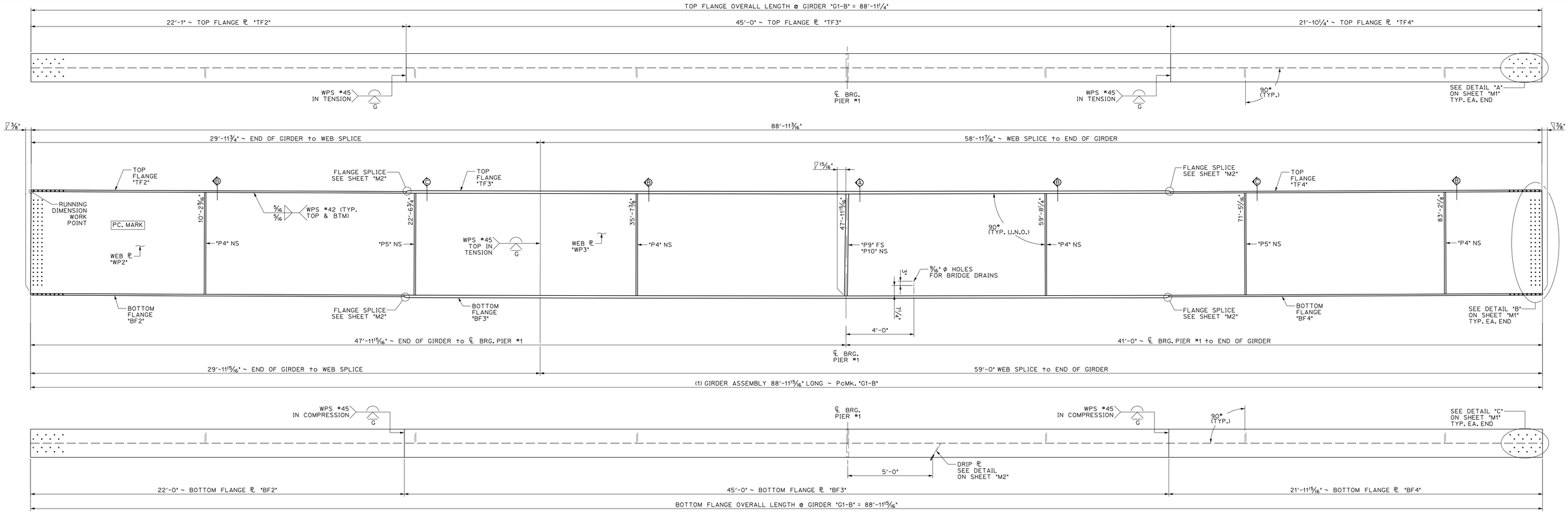
PROJECT No. IM 089-2(43)
ITEM No. 506.55

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

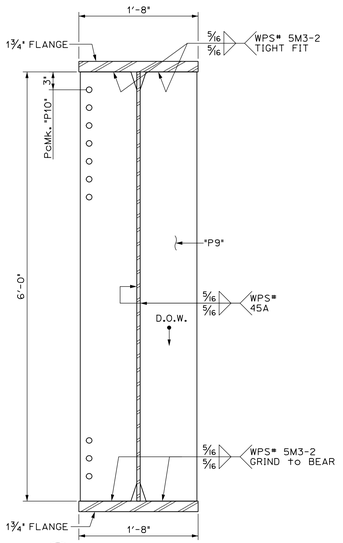
DRAFTER	JJH	GIRDER "G5-A"	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
CHECKED	DLM	SC: BECK & BELLUCCI	DWG. NO. 6
DATE	NOV. 2014		



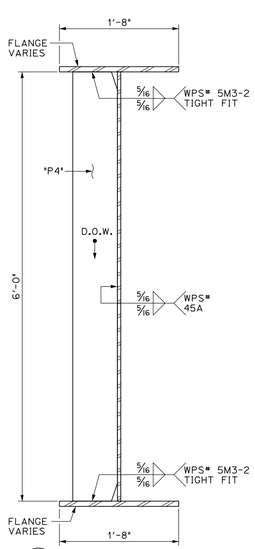
1/7 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G1-B"
SCALE: 3/8" = 1'-0"

BILL OF MATERIALS

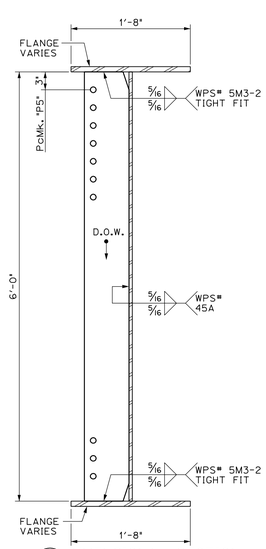
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G1-B			BRIDGE GIRDER ASSEMBLY	88'-11 15/16"	31,000#	
		1	WP2	℄ 9/16" x 72"	29'-11 15/16"	4150#	CVN
		1	WP3	℄ 9/16" x 72"	59'-0"	8150#	CVN
		1	TF2	℄ 1 1/8" x 20"	22'-1"	1725#	CVN
		1	TF3	℄ 1¾" x 20"	45'-0"	5400#	CVN
		1	TF4	℄ 1 1/8" x 20"	21'-10¼"	1725#	CVN
		1	BF2	℄ 1 1/8" x 20"	22'-0"	1725#	CVN
		1	BF3	℄ 1¾" x 20"	45'-0"	5400#	CVN
		1	BF4	℄ 1 1/8" x 20"	21'-11 15/16"	1725#	CVN
		4	P4	SEE SHEET M2			
		2	P5	SEE SHEET M2			
		1	P9	SEE SHEET M2			
		1	P10	SEE SHEET M2			



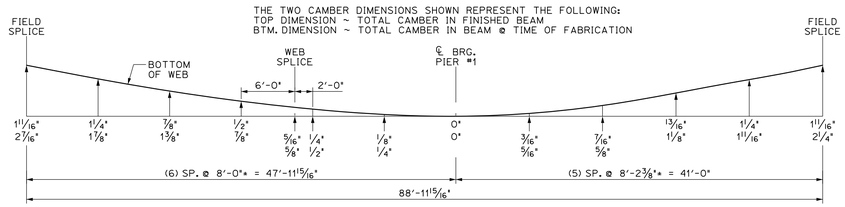
A 7 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



B 7 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



C 7 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



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

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	Stantec
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 2/19/15		
By: George Bogue		
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Vermont Agency of Transportation
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BY: D Bonneau DATE: 03/17/15

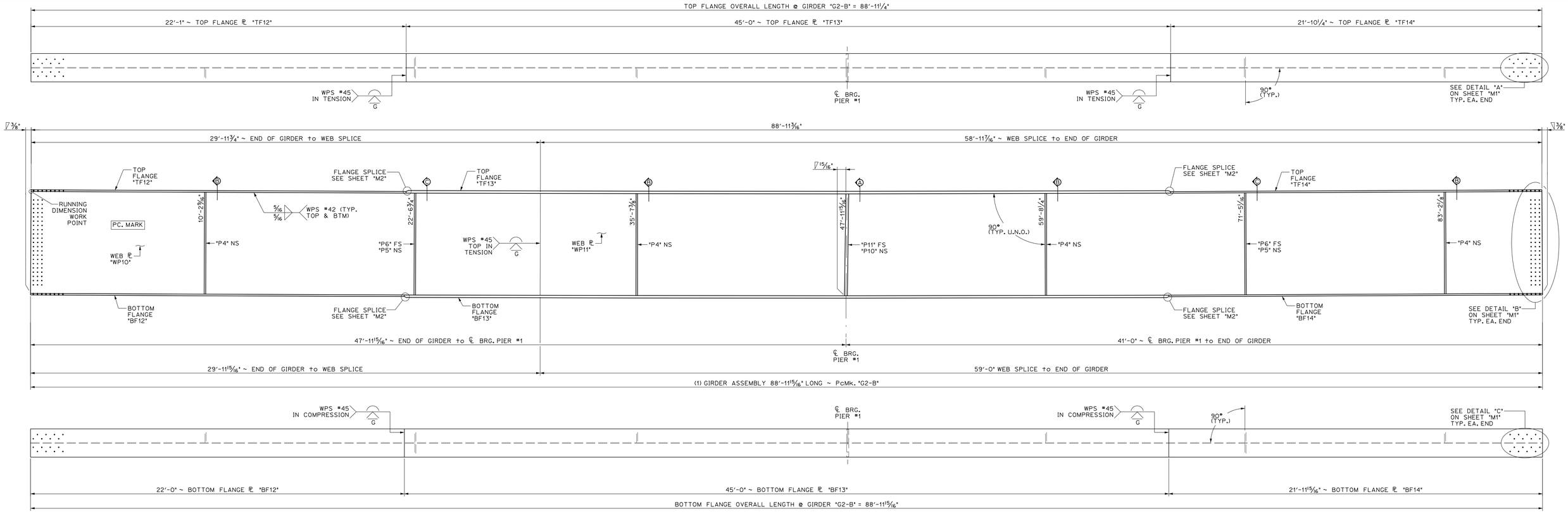
PROJECT No. IM 089-2(43)
ITEM No. 506.55

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

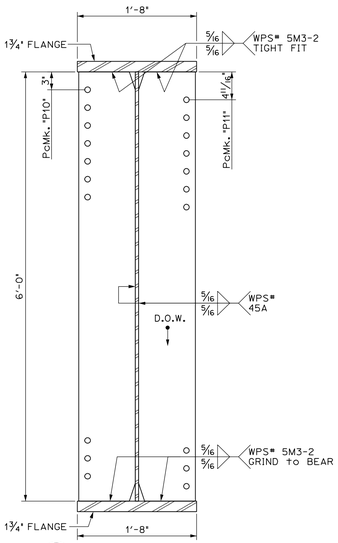
DRAFTER	JJH	GIRDER "G1-B"	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
CHECKED	DLM	BECK & BELLUCCI	DWG. NO. 7
DATE	NOV. 2014		



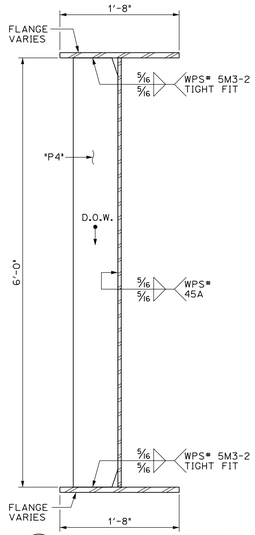
1/8 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G2-B"
SCALE: 3/8" = 1'-0"

BILL OF MATERIALS

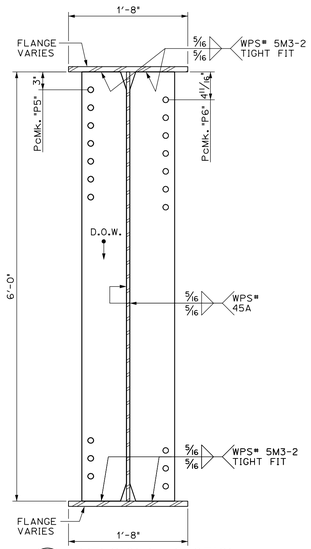
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G2-B			BRIDGE GIRDER ASSEMBLY	88'-11 15/16"	31,200#	
		1	WP10	℄ 9/16" x 72"	29'-11 15/16"	4150#	CVN
		1	WP11	℄ 9/16" x 72"	59'-0"	8150#	CVN
		1	TF12	℄ 1 1/8" x 20"	22'-1"	1725#	CVN
		1	TF13	℄ 1¾" x 20"	45'-0"	5400#	CVN
		1	TF14	℄ 1 1/8" x 20"	21'-10¼"	1725#	CVN
		1	BF12	℄ 1 1/8" x 20"	22'-0"	1725#	CVN
		1	BF13	℄ 1¾" x 20"	45'-0"	5400#	CVN
		1	BF14	℄ 1 1/8" x 20"	21'-11 15/16"	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			



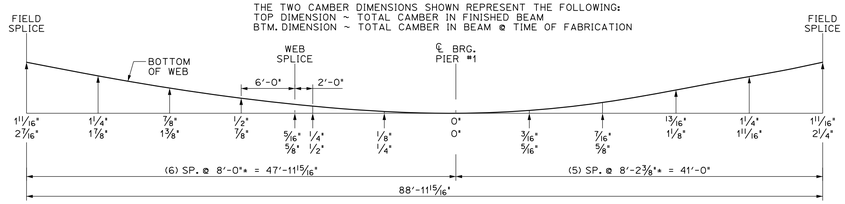
A 8 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



B 8 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



C 8 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



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

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	Stantec
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 2/19/15		
By: George Bogue		
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BY: D Bonneau DATE: 03/17/15

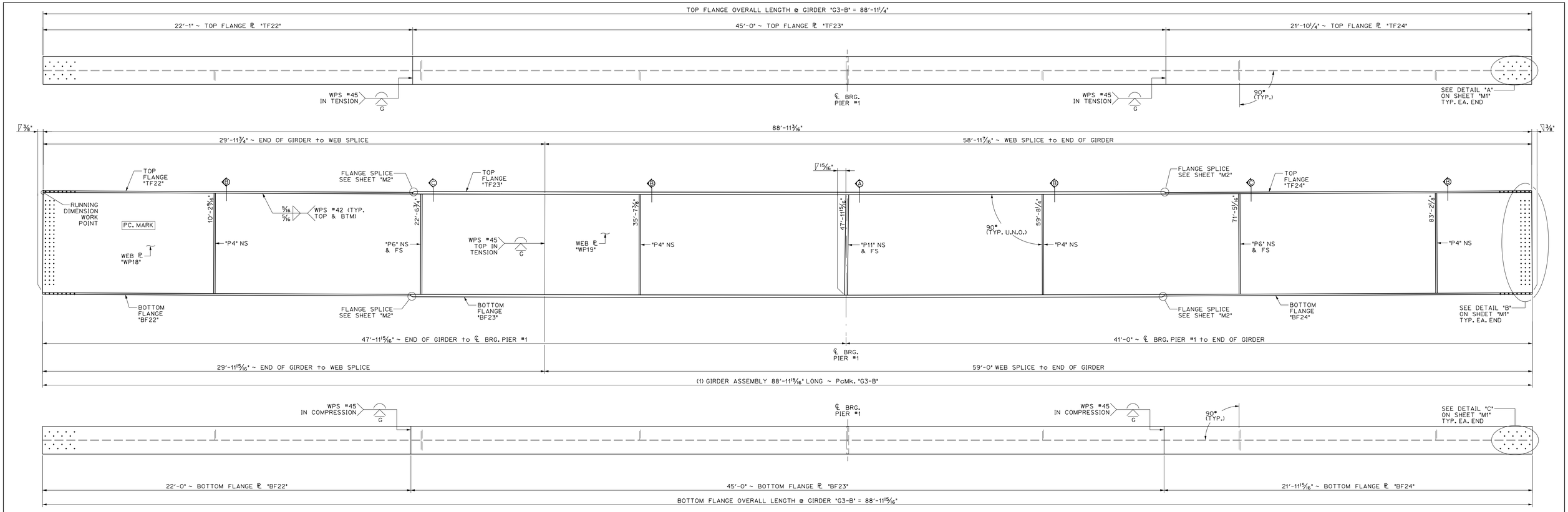
PROJECT No. IM 089-2(43)
ITEM No. 506.55

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

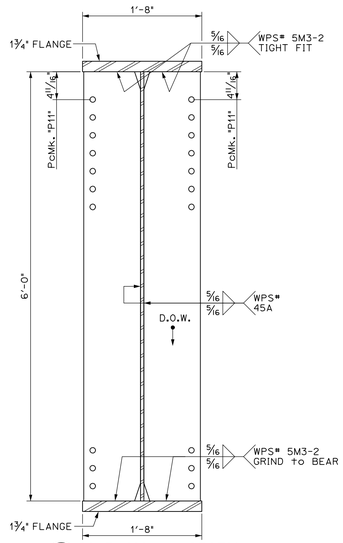
DRAFTER	JJH	GIRDER "G2-B"	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
CHECKED	DLM	BECK & BELLUCCI	DWG. NO. 8
DATE	NOV. 2014		



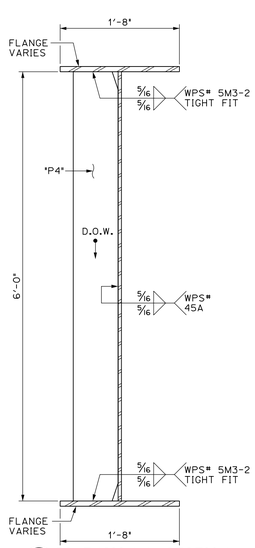
1/9 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G3-B"
SCALE: 3/8" = 1'-0"

BILL OF MATERIALS

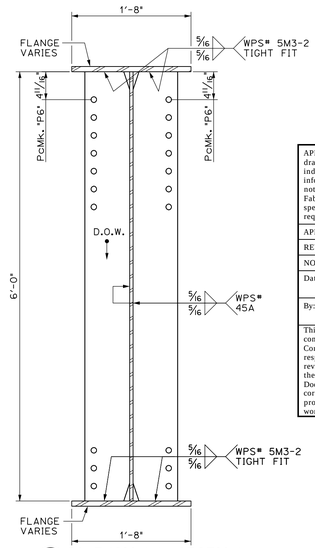
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G3-B			BRIDGE GIRDER ASSEMBLY	88'-11 15/16"	31,200#	
		1	WP18	℄ 9/16" x 72"	29'-11 15/16"	4150#	CVN
		1	WP19	℄ 9/16" x 72"	59'-0"	8150#	CVN
		1	TF22	℄ 1 1/8" x 20"	22'-1"	1725#	CVN
		1	TF23	℄ 1¾" x 20"	45'-0"	5400#	CVN
		1	TF24	℄ 1 1/8" x 20"	21'-10¼"	1725#	CVN
		1	BF22	℄ 1 1/8" x 20"	22'-0"	1725#	CVN
		1	BF23	℄ 1¾" x 20"	45'-0"	5400#	CVN
		1	BF24	℄ 1 1/8" x 20"	21'-11 15/16"	1725#	CVN
		4	P4	SEE SHEET M2			
		4	P6	SEE SHEET M2			
		2	P11	SEE SHEET M2			



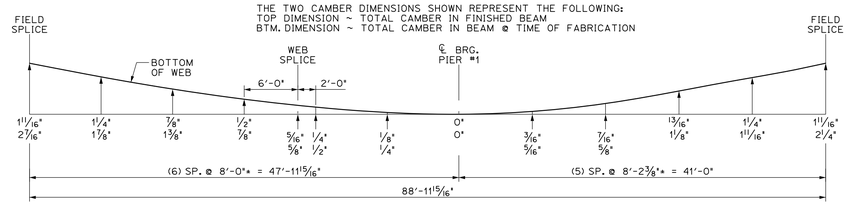
A 9 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



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



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



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

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	

Stantec

Date: 2/19/15

By: George Bogue

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Vermont Agency of Transportation
RECEIVED
ON: February 18, 2015
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BY: D Bonneau DATE: 03/17/15

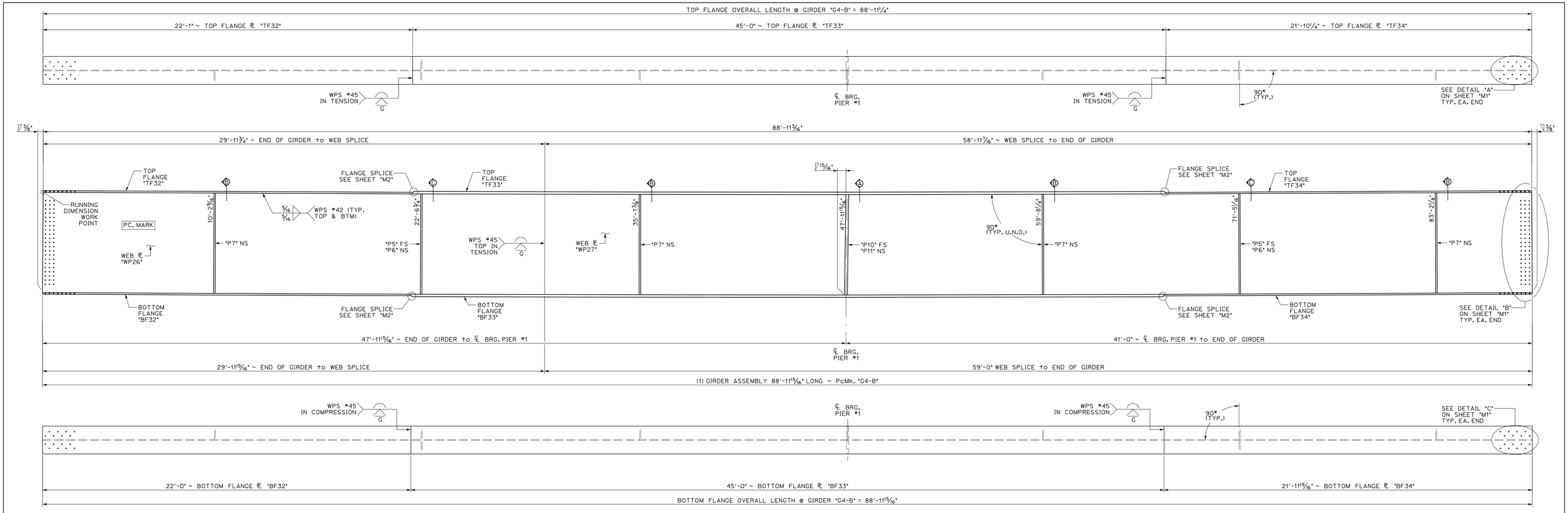
PROJECT No. IM 089-2(43)
ITEM No. 506.55

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

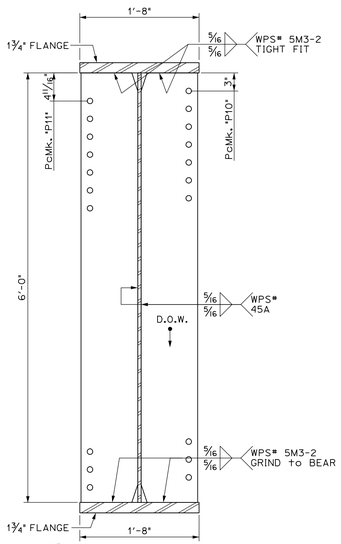
DRAFTER	JJH	GIRDER "G3-B"	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO. 9
CHECKED	DLM	BECK & BELLUCCI	
DATE	NOV. 2014		



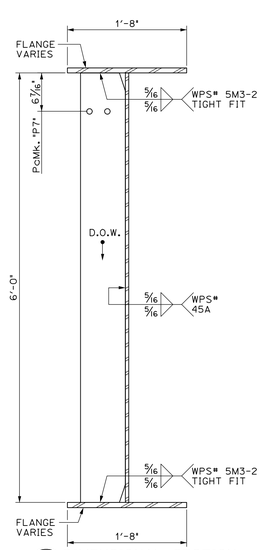
1/10 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G4-B"
SCALE: 3/8" = 1'-0"

BILL OF MATERIALS

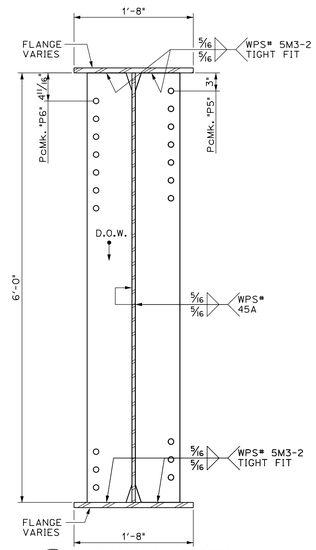
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G4-B			BRIDGE GIRDER ASSEMBLY	88'-11 5/16"	31,200#	
		1	WP26	℄ 9/16" x 72"	29'-11 5/16"	4150#	CVN
		1	WP27	℄ 9/16" x 72"	59'-0"	8150#	CVN
		1	TF32	℄ 1 1/8" x 20"	22'-1"	1725#	CVN
		1	TF33	℄ 1¾" x 20"	45'-0"	5400#	CVN
		1	TF34	℄ 1 1/8" x 20"	21'-10¼"	1725#	CVN
		1	BF32	℄ 1 1/8" x 20"	22'-0"	1725#	CVN
		1	BF33	℄ 1¾" x 20"	45'-0"	5400#	CVN
		1	BF34	℄ 1 1/8" x 20"	21'-11 5/16"	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			



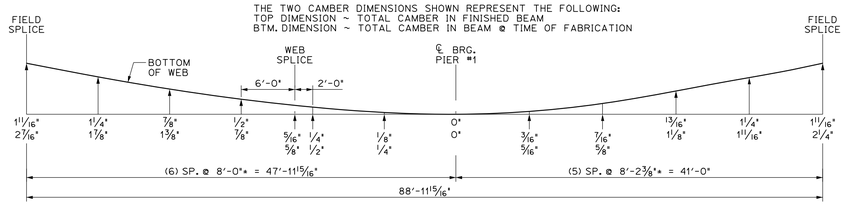
A 10 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



B 10 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



C 10 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



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

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	Stantec
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 2/19/15		
By: George Bogue		
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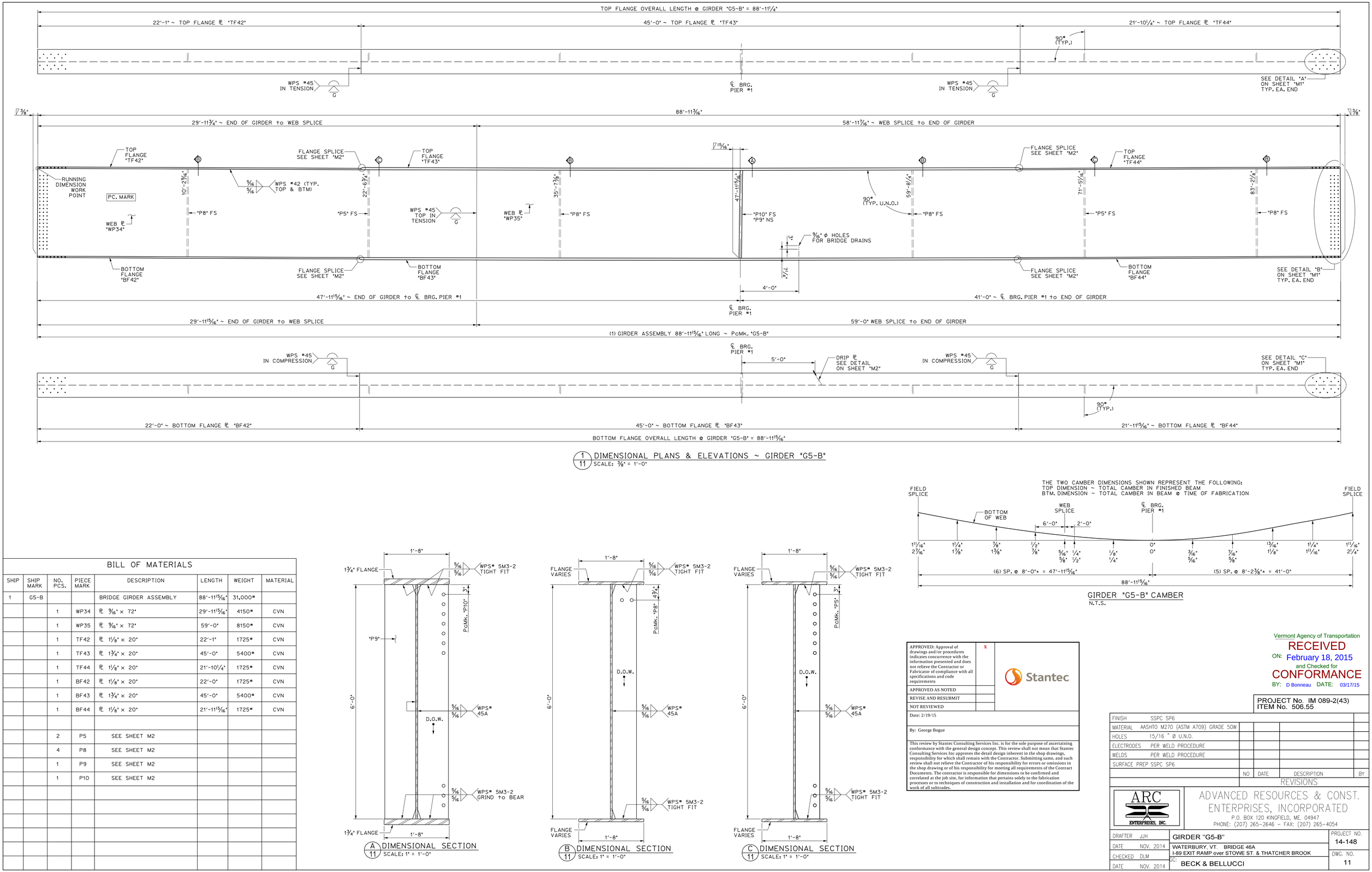
Vermont Agency of Transportation
RECEIVED
ON: February 18, 2015
and Checked for
CONFORMANCE
BY: D Bonneau DATE: 03/17/15

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-B"	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
CHECKED	DLM	BECK & BELLUCCI	DWG. NO. 10
DATE	NOV. 2014		



1/11 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G5-B"
SCALE: ⅜" = 1'-0"

BILL OF MATERIALS

SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G5-B			BRIDGE GIRDER ASSEMBLY	88'-11 15/16"	31,000#	
		1	WP34	℄ 9/16" x 72"	29'-11 15/16"	4150#	CVN
		1	WP35	℄ 9/16" x 72"	59'-0"	8150#	CVN
		1	TF42	℄ 1 1/8" x 20"	22'-1"	1725#	CVN
		1	TF43	℄ 1¾" x 20"	45'-0"	5400#	CVN
		1	TF44	℄ 1 1/8" x 20"	21'-10¼"	1725#	CVN
		1	BF42	℄ 1 1/8" x 20"	22'-0"	1725#	CVN
		1	BF43	℄ 1¾" x 20"	45'-0"	5400#	CVN
		1	BF44	℄ 1 1/8" x 20"	21'-11 15/16"	1725#	CVN
		2	P5	SEE SHEET M2			
		4	P8	SEE SHEET M2			
		1	P9	SEE SHEET M2			
		1	P10	SEE SHEET M2			

A 11 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

B 11 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

C 11 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

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

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	Stantec
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		

Date: 2/19/15

By: George Bogue

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Vermont Agency of Transportation
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BY: D Bonneau DATE: 03/17/15

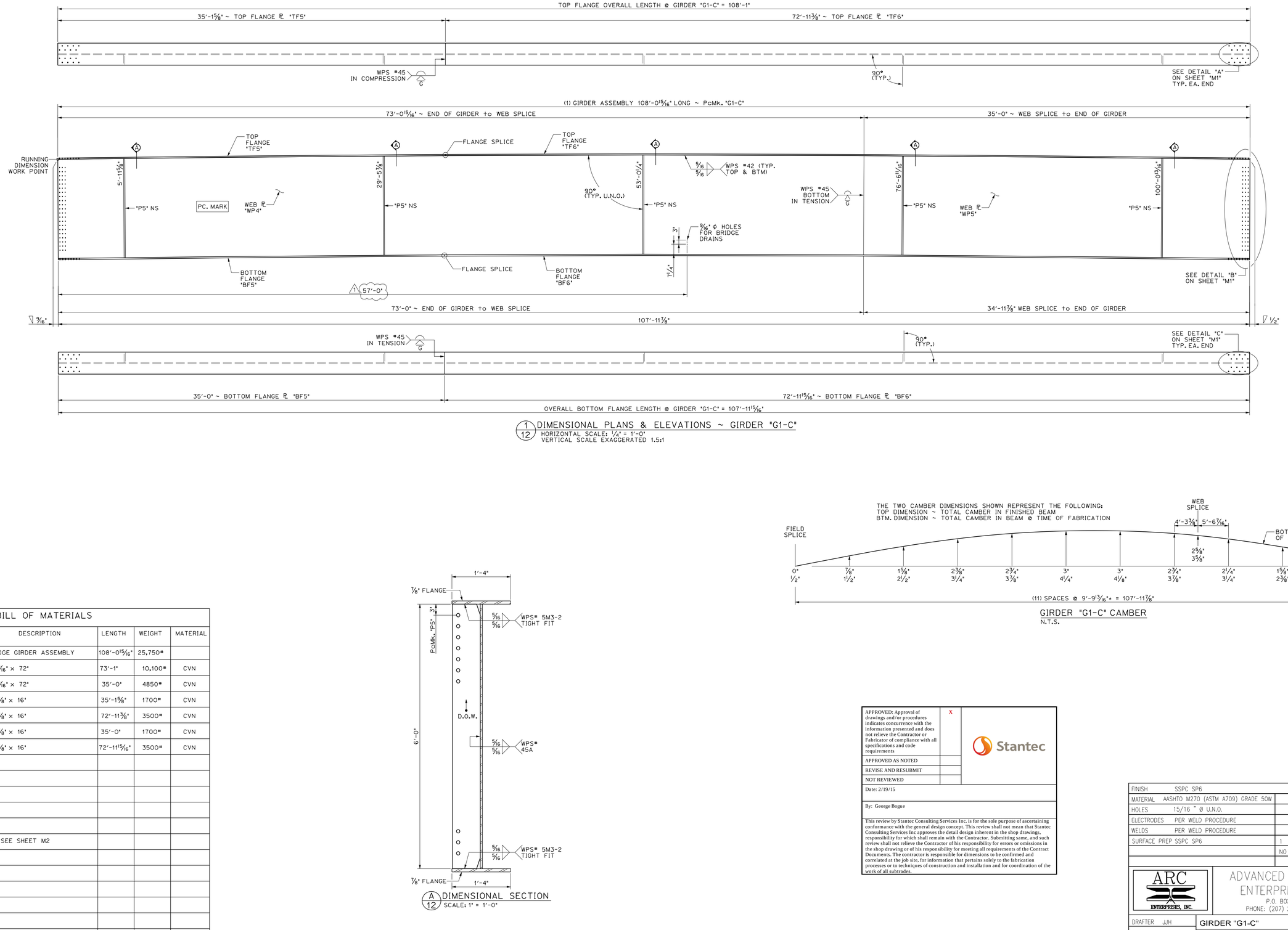
PROJECT No. IM 089-2(43)
ITEM No. 506.55

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-B"	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
CHECKED	DLM	cc: BECK & BELLUCCI	DWG. NO. 11
DATE	NOV. 2014		

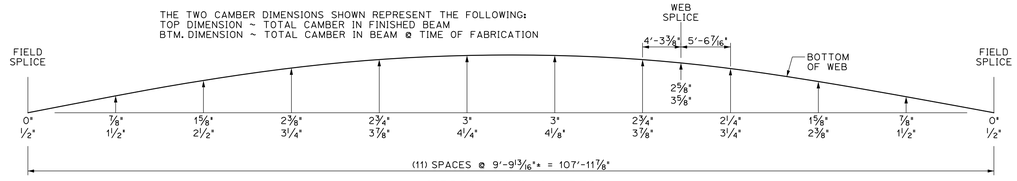


1/12 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G1-C"
HORIZONTAL SCALE: 1/4" = 1'-0"
VERTICAL SCALE EXAGGERATED 1.5:1

BILL OF MATERIALS

SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G1-C			BRIDGE GIRDER ASSEMBLY	108'-0 15/16"	25,750#	
		1	WP4	℄ 3/16" x 72"	73'-1"	10,100#	CVN
		1	WP5	℄ 3/16" x 72"	35'-0"	4850#	CVN
		1	TF5	℄ 7/8" x 16"	35'-1⅝"	1700#	CVN
		1	TF6	℄ 7/8" x 16"	72'-11⅜"	3500#	CVN
		1	BF5	℄ 7/8" x 16"	35'-0"	1700#	CVN
		1	BF6	℄ 7/8" x 16"	72'-11 15/16"	3500#	CVN
		5	P5	SEE SHEET M2			

A/12 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



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

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	Stantec
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		

Date: 2/19/15

By: George Bogue

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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	1	2/17/15	DRAIN HOLE LOCATION JJH

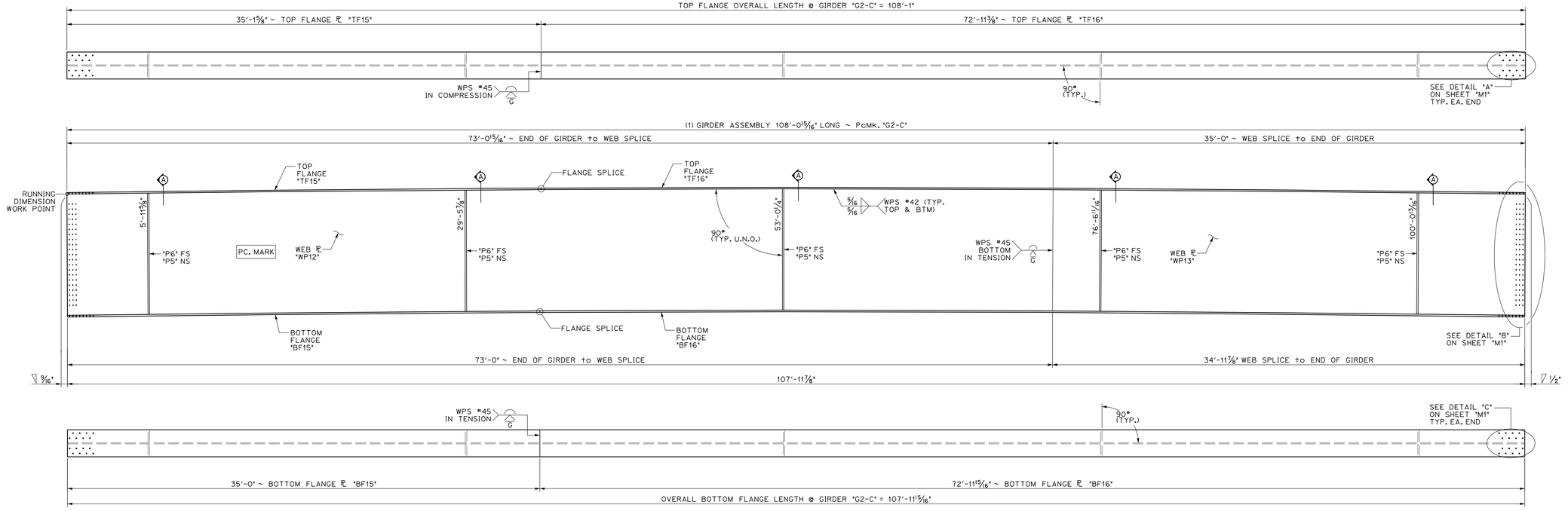
NO	DATE	DESCRIPTION	BY

REVISIONS

ARC ENTERPRISES, INC.

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

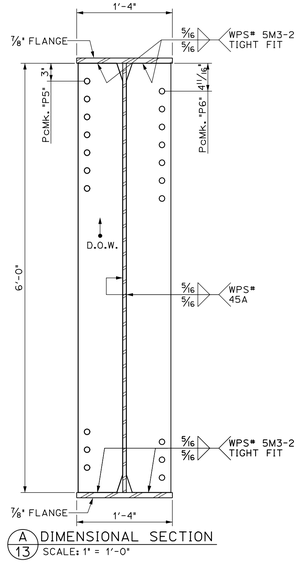
DRAFTER	JJH	GIRDER "G1-C"	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
CHECKED	DLM		DWG. NO.
DATE	NOV. 2014	BECK & BELLUCCI	12



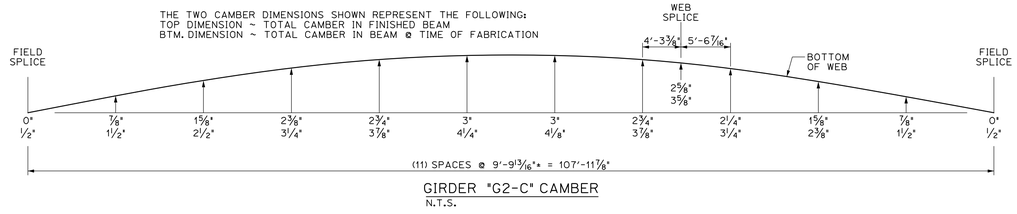
1/13 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G2-C"
HORIZONTAL SCALE: 1/4" = 1'-0"
VERTICAL SCALE EXAGGERATED 1.5:1

BILL OF MATERIALS

SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G2-C			BRIDGE GIRDER ASSEMBLY	108'-0 15/16"	26,150#	
		1	WP12	℄ 9/16" x 72"	73'-1"	10,100#	CVN
		1	WP13	℄ 9/16" x 72"	35'-0"	4850#	CVN
		1	TF15	℄ 7/8" x 16"	35'-1 5/8"	1700#	CVN
		1	TF16	℄ 7/8" x 16"	72'-11 3/8"	3500#	CVN
		1	BF15	℄ 7/8" x 16"	35'-0"	1700#	CVN
		1	BF16	℄ 7/8" x 16"	72'-11 15/16"	3500#	CVN
		5	P5	SEE SHEET M2			
		5	P6	SEE SHEET M2			



A/13 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



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

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	Stantec
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 2/19/15		
By: George Bogue		
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Vermont Agency of Transportation
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BY: D Bonneau DATE: 03/17/15

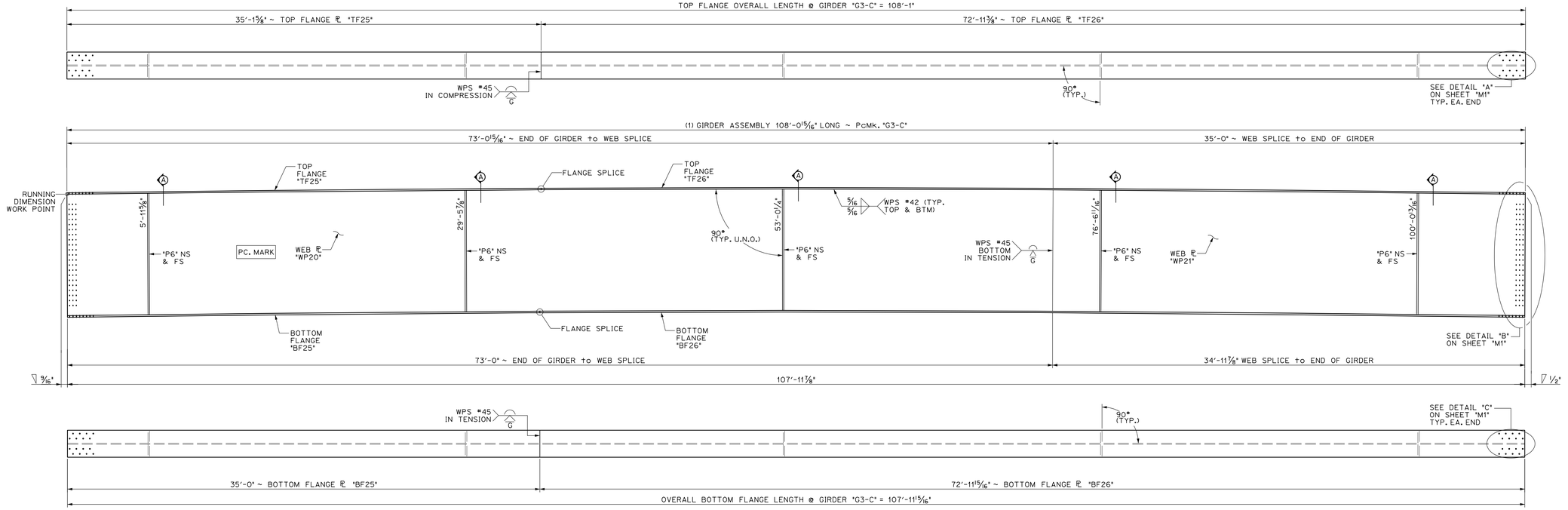
PROJECT No. IM 089-2(43)
ITEM No. 506.55

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

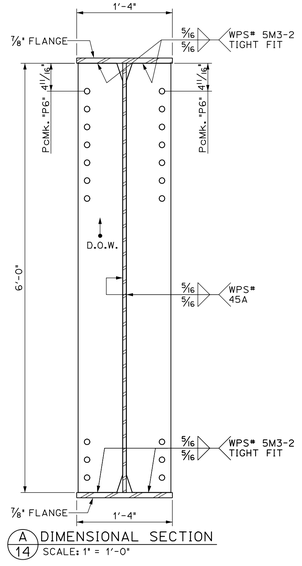
DRAFTER	JJH	GIRDER "G2-C"	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
CHECKED	DLM		DWG. NO.
DATE	NOV. 2014	BECK & BELLUCCI	13



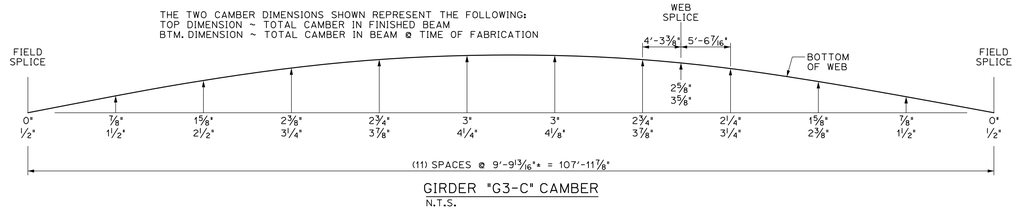
1/14 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G3-C"
HORIZONTAL SCALE: 1/4" = 1'-0"
VERTICAL SCALE EXAGGERATED 1.5:1

BILL OF MATERIALS

SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G3-C			BRIDGE GIRDER ASSEMBLY	108'-0 15/16"	26,150#	
		1	WP20	℄ 3/16" x 72"	73'-1"	10,100#	CVN
		1	WP21	℄ 3/16" x 72"	35'-0"	4850#	CVN
		1	TF25	℄ 7/8" x 16"	35'-1 5/8"	1700#	CVN
		1	TF26	℄ 7/8" x 16"	72'-11 3/8"	3500#	CVN
		1	BF25	℄ 7/8" x 16"	35'-0"	1700#	CVN
		1	BF26	℄ 7/8" x 16"	72'-11 15/16"	3500#	CVN
		10	P6	SEE SHEET M2			



A/14 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



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

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	Stantec
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REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 2/19/15		
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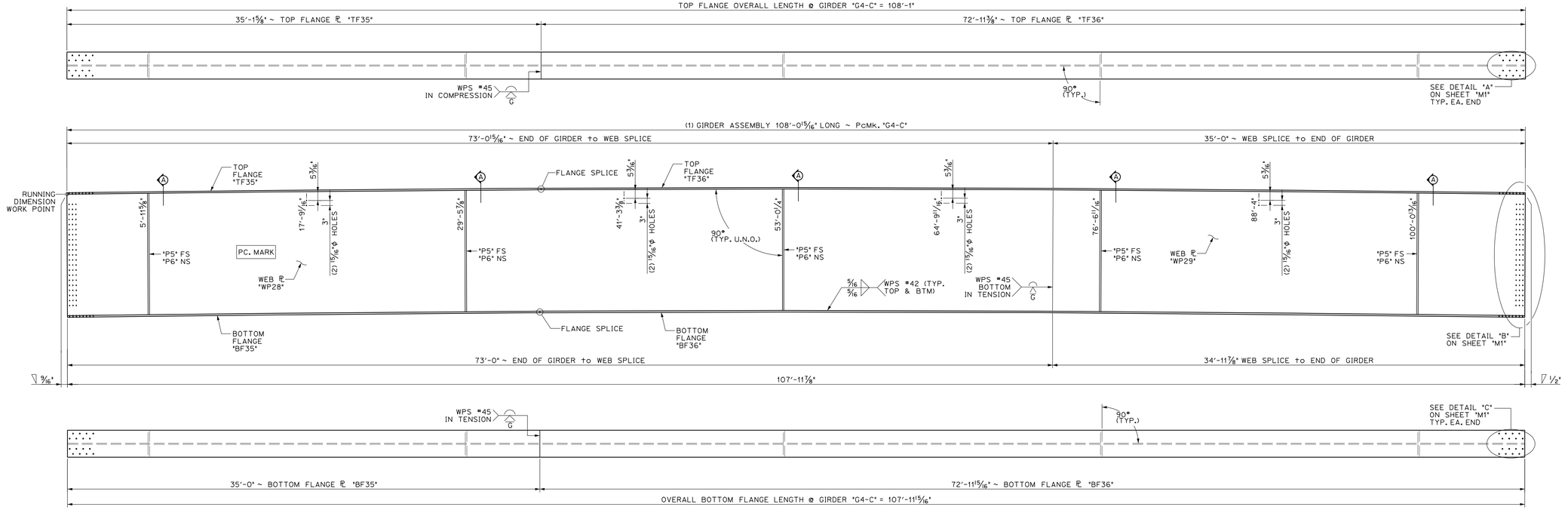
PROJECT No. IM 089-2(43)
ITEM No. 506.55

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	

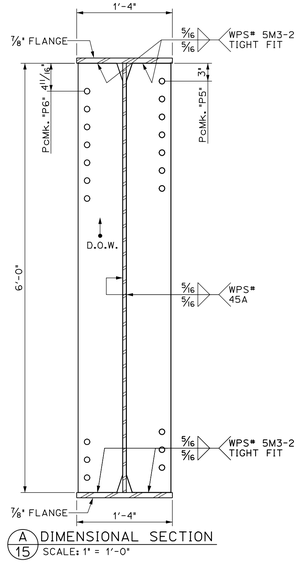
ARC ENTERPRISES, INC.
ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
P.O. BOX 120 KINGFIELD, ME. 04947
PHONE: (207) 265-2646 - FAX: (207) 265-4054

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

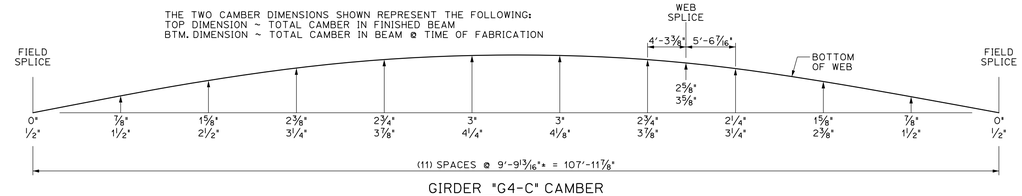


1/15 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G4-C"
HORIZONTAL SCALE: 1/4" = 1'-0"
VERTICAL SCALE EXAGGERATED 1.5:1

BILL OF MATERIALS							
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G4-C			BRIDGE GIRDER ASSEMBLY	108'-0 15/16"	26,150#	
		1	WP28	℄ 3/16" x 72"	73'-1"	10,100#	CVN
		1	WP29	℄ 3/16" x 72"	35'-0"	4850#	CVN
		1	TF35	℄ 7/8" x 16"	35'-1 5/8"	1700#	CVN
		1	TF36	℄ 7/8" x 16"	72'-11 3/8"	3500#	CVN
		1	BF35	℄ 7/8" x 16"	35'-0"	1700#	CVN
		1	BF36	℄ 7/8" x 16"	72'-11 15/16"	3500#	CVN
		5	P5	SEE SHEET M2			
		5	P6	SEE SHEET M2			



A/15 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



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

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	Stantec
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 2/19/15		
By: George Bogue		
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PROJECT No. IM 089-2(43)
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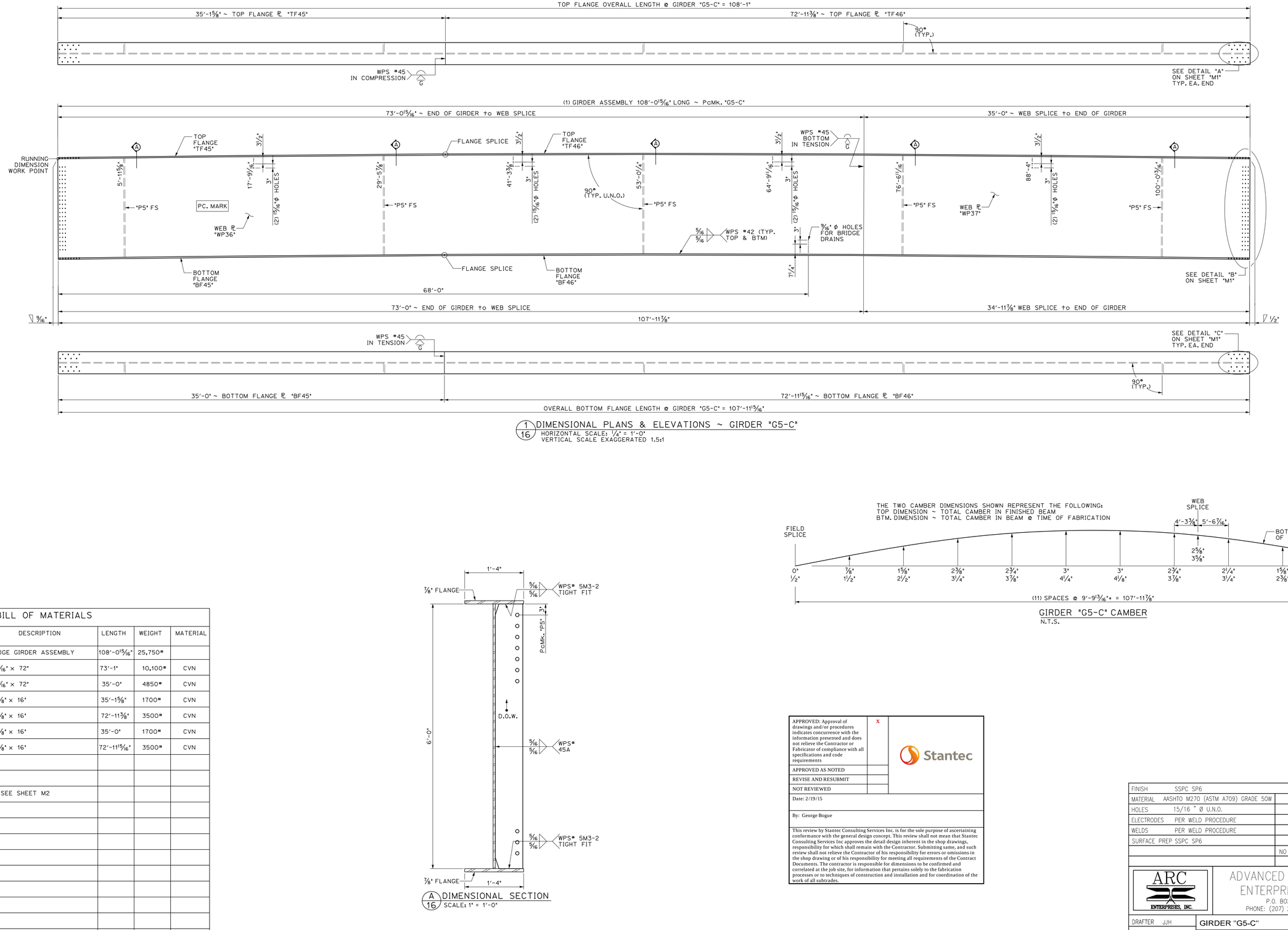
FINISH	SSPC SP6			
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W			
HOLES	15/16 " Ø U.N.O.			
ELECTRODES	PER WELD PROCEDURE			
WELDS	PER WELD PROCEDURE			
SURFACE PREP	SSPC SP6			
		NO	DATE	DESCRIPTION BY
		REVISIONS		

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

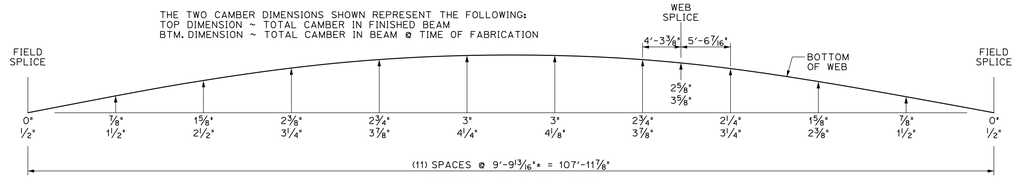
DRAFTER	JJH	GIRDER "G4-C"	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
CHECKED	DLM		DWG. NO.
DATE	NOV. 2014	cc: BECK & BELLUCCI	15



1/16 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 15/16"	25,750#	
		1	WP36	℄ 9/16" x 72"	73'-1"	10,100#	CVN
		1	WP37	℄ 9/16" x 72"	35'-0"	4850#	CVN
		1	TF45	℄ 7/8" x 16"	35'-1⅝"	1700#	CVN
		1	TF46	℄ 7/8" x 16"	72'-11⅜"	3500#	CVN
		1	BF45	℄ 7/8" x 16"	35'-0"	1700#	CVN
		1	BF46	℄ 7/8" x 16"	72'-11 15/16"	3500#	CVN
		5	P5	SEE SHEET M2			

A/16 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



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

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	Stantec
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 2/19/15		
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
ON: February 18, 2015
and Checked for
CONFORMANCE
BY: D Bonneau DATE: 03/17/15

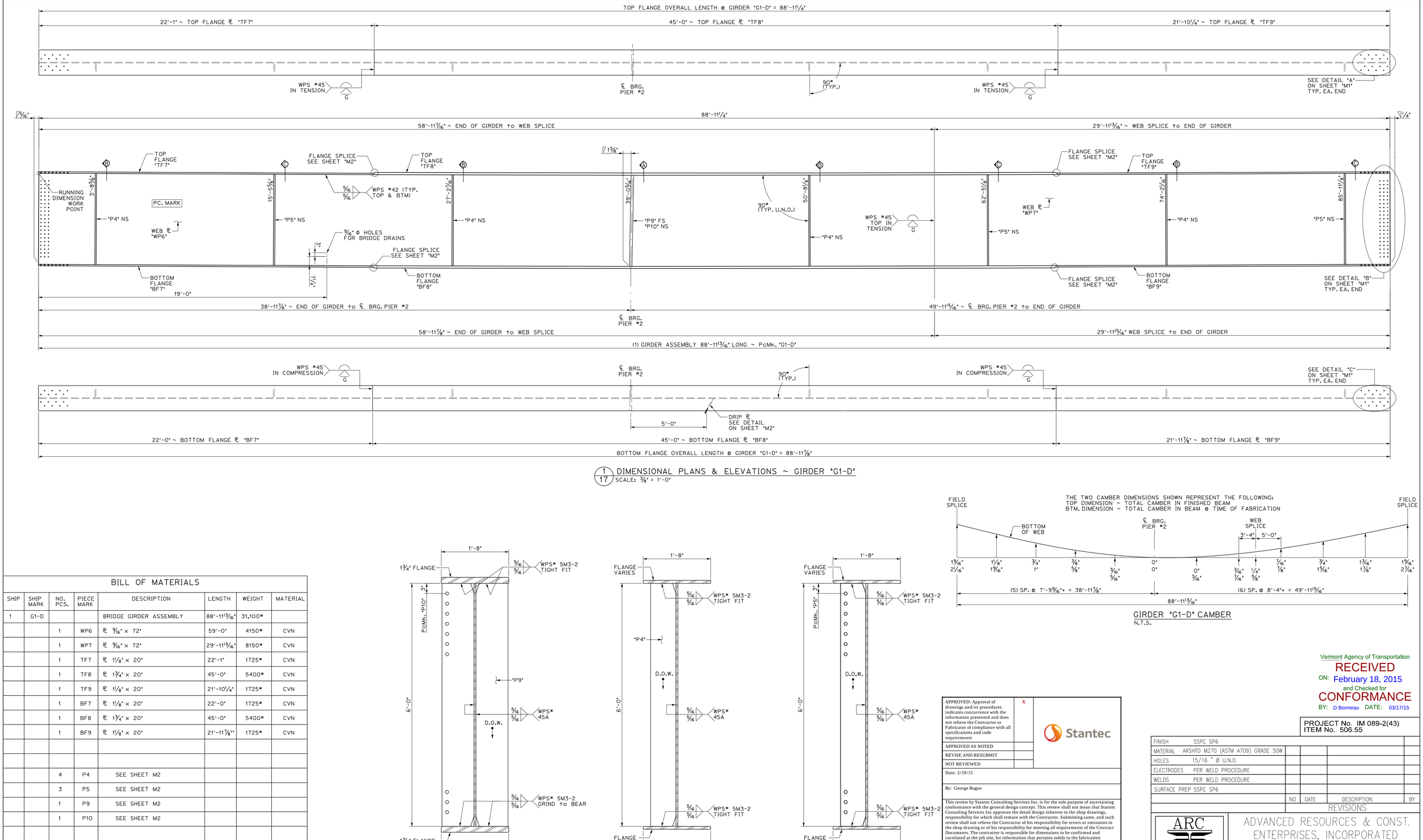
PROJECT No. IM 089-2(43)
ITEM No. 506.55

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



1/17 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G1-D"

SCALE: ⅜" = 1'-0"

A 17 DIMENSIONAL SECTION

SCALE: 1" = 1'-0"

B 17 DIMENSIONAL SECTION

SCALE: 1" = 1'-0"

C 17 DIMENSIONAL SECTION

SCALE: 1" = 1'-0"

GIRDER "G1-D" CAMBER

N.T.S.

BILL OF MATERIALS

SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G1-D			BRIDGE GIRDER ASSEMBLY	88'-11¹³⁄₁₆"	31,100#	
		1	WP6	℄ ⅜" × 72"	59'-0"	4150#	CVN
		1	WP7	℄ ⅜" × 72"	29'-11¹⁵⁄₁₆"	8150#	CVN
		1	TF7	℄ 1⅛" × 20"	22'-1"	1725#	CVN
		1	TF8	℄ 1¾" × 20"	45'-0"	5400#	CVN
		1	TF9	℄ 1⅛" × 20"	21'-10¼"	1725#	CVN
		1	BF7	℄ 1⅛" × 20"	22'-0"	1725#	CVN
		1	BF8	℄ 1¾" × 20"	45'-0"	5400#	CVN
		1	BF9	℄ 1⅛" × 20"	21'-11⅞"	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	X	Stantec
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 2/19/15		
By: George Bogue		
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Vermont Agency of Transportation
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BY: D Bonneau DATE: 03/17/15

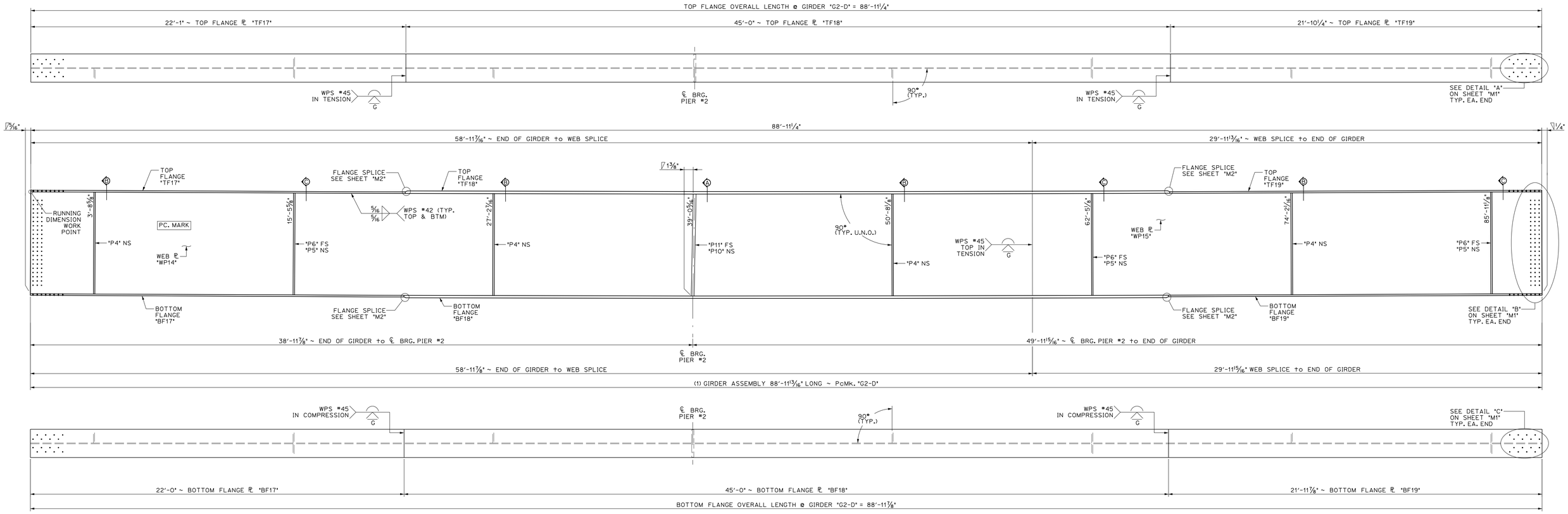
PROJECT No. IM 089-2(43)
ITEM No. 506.55

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

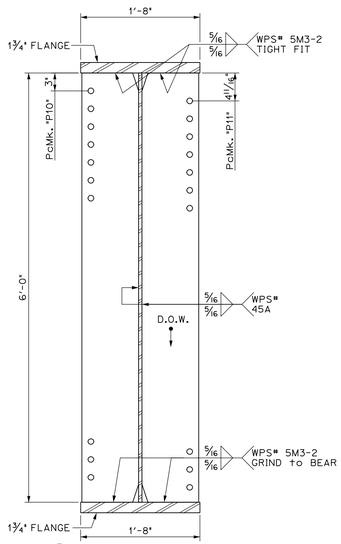
DRAFTER	JJH	GIRDER "G1-D"	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
CHECKED	DLM	SC: BECK & BELLUCCI	DWG. NO. 17
DATE	NOV. 2014		



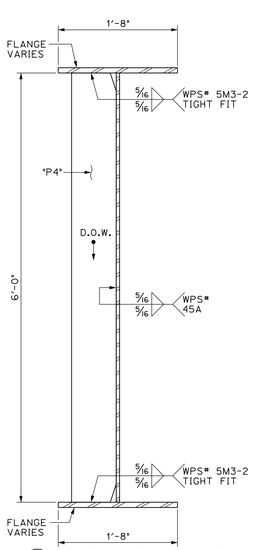
1/18 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G2-D"
SCALE: 3/8" = 1'-0"

BILL OF MATERIALS

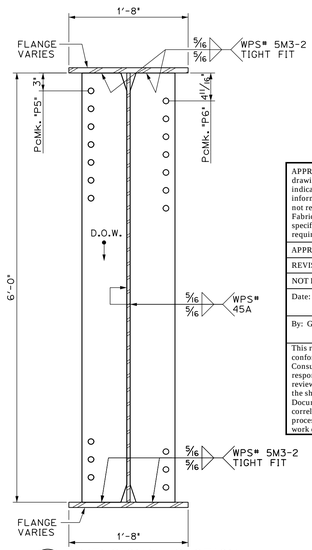
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G2-D			BRIDGE GIRDER ASSEMBLY	88'-11 13/16"	31,300#	
		1	WP14	℄ 9/16" x 72"	59'-0"	4150#	CVN
		1	WP15	℄ 9/16" x 72"	29'-11 15/16"	8150#	CVN
		1	TF17	℄ 1 1/8" x 20"	22'-1"	1725#	CVN
		1	TF18	℄ 1 3/4" x 20"	45'-0"	5400#	CVN
		1	TF19	℄ 1 1/8" x 20"	21'-10 1/4"	1725#	CVN
		1	BF17	℄ 1 1/8" x 20"	22'-0"	1725#	CVN
		1	BF18	℄ 1 3/4" x 20"	45'-0"	5400#	CVN
		1	BF19	℄ 1 1/8" x 20"	21'-11 7/8"	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			



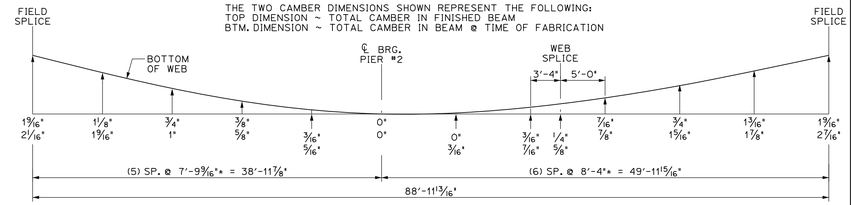
A/18 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



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



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



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

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	Stantec
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 2/19/15		
By: George Bogue		

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Vermont Agency of Transportation
RECEIVED
ON: February 18, 2015
and Checked for
CONFORMANCE
BY: D Bonneau DATE: 03/17/15

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

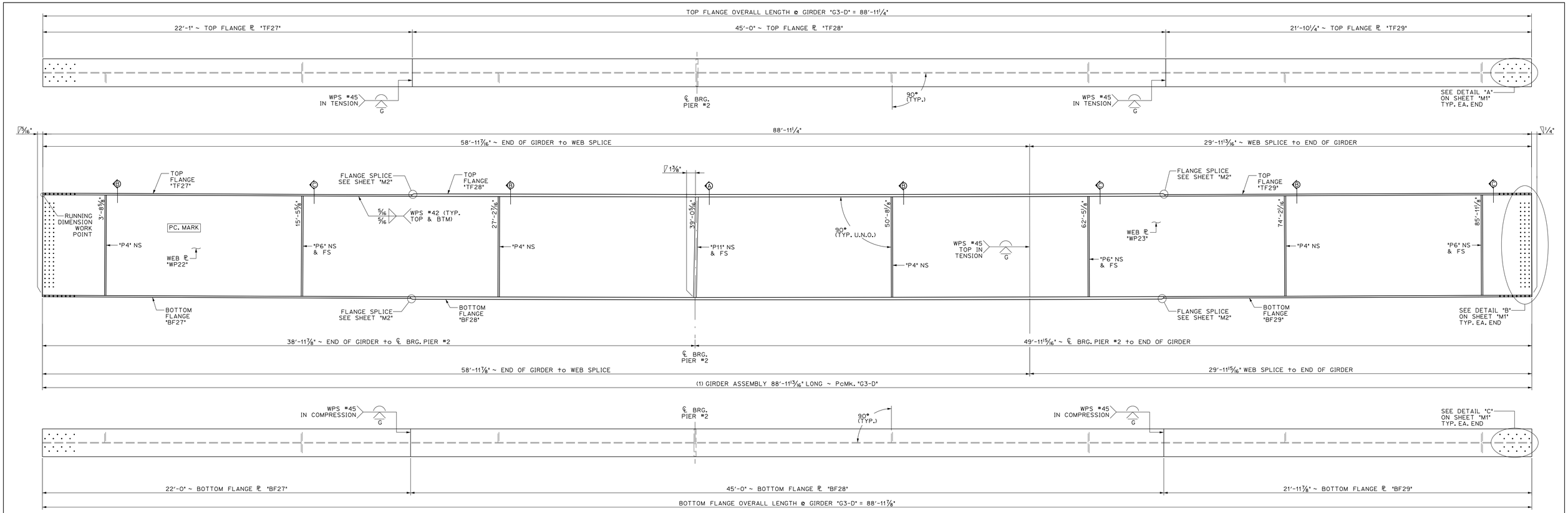
FINISH	SSPC SP6
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W
HOLES	15/16 " Ø U.N.O.
ELECTRODES	PER WELD PROCEDURE
WELDS	PER WELD PROCEDURE
SURFACE PREP	SSPC SP6

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

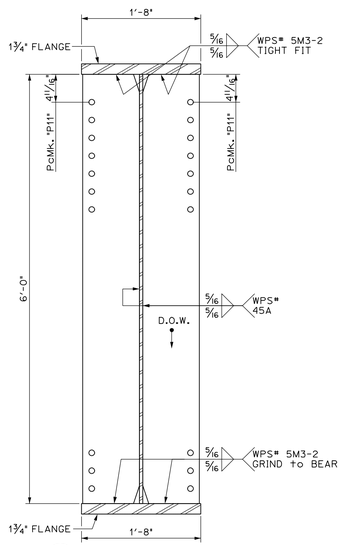
DRAFTER	JJH	GIRDER "G2-D"	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
CHECKED	DLM	SC: BECK & BELLUCCI	DWG. NO. 18
DATE	NOV. 2014		



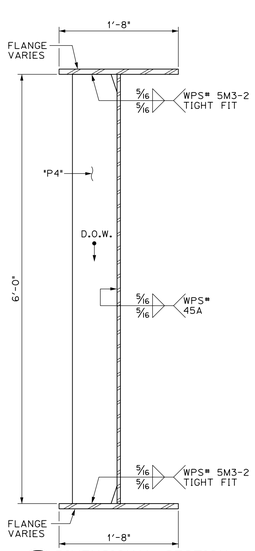
1/19 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G3-D"
SCALE: 3/8" = 1'-0"

BILL OF MATERIALS

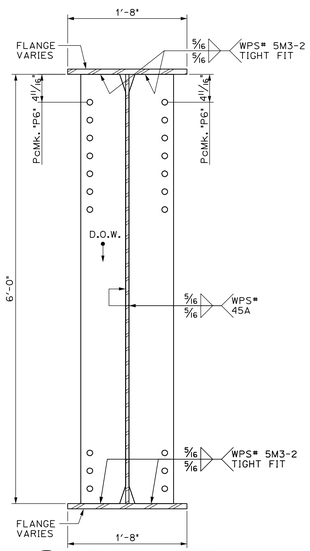
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G3-D			BRIDGE GIRDER ASSEMBLY	88'-11 13/16"	31,300#	
		1	WP22	℞ 9/16" x 72"	59'-0"	4150#	CVN
		1	WP23	℞ 9/16" x 72"	29'-11 15/16"	8150#	CVN
		1	TF27	℞ 1 1/8" x 20"	22'-1"	1725#	CVN
		1	TF28	℞ 1 3/4" x 20"	45'-0"	5400#	CVN
		1	TF29	℞ 1 1/8" x 20"	21'-10 1/4"	1725#	CVN
		1	BF27	℞ 1 1/8" x 20"	22'-0"	1725#	CVN
		1	BF28	℞ 1 3/4" x 20"	45'-0"	5400#	CVN
		1	BF29	℞ 1 1/8" x 20"	21'-11 7/8"	1725#	CVN
		4	P4	SEE SHEET M2			
		6	P6	SEE SHEET M2			
		2	P11	SEE SHEET M2			



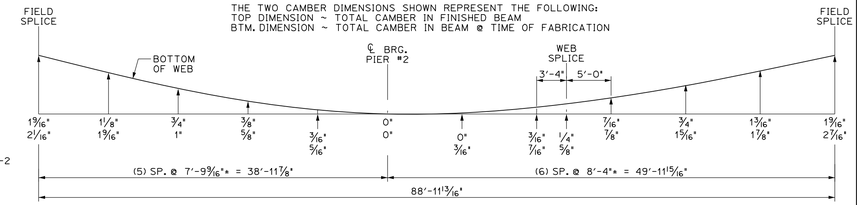
1/19 A DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



1/19 B DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



1/19 C DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



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

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	Stantec
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		

Date: 2/19/15

By: George Bogue

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Vermont Agency of Transportation
RECEIVED
ON: February 18, 2015
and Checked for
CONFORMANCE
BY: D Bonneau DATE: 03/17/15

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

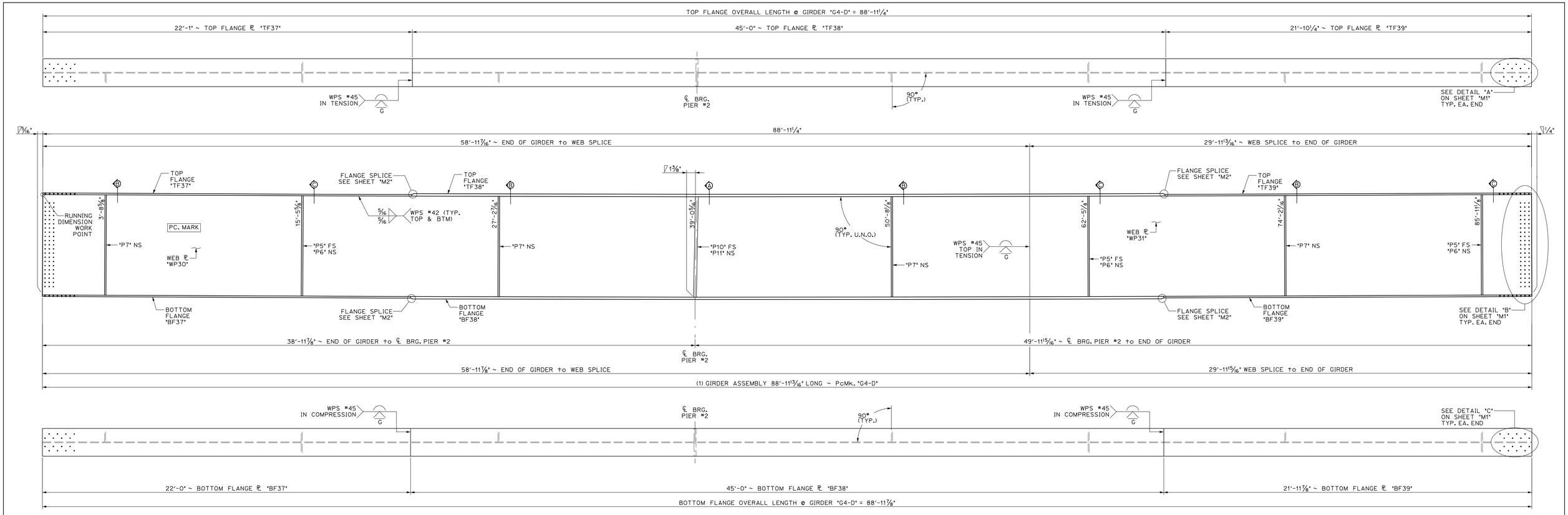
FINISH	SSPC SP6
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W
HOLES	15/16 " Ø U.N.O.
ELECTRODES	PER WELD PROCEDURE
WELDS	PER WELD PROCEDURE
SURFACE PREP	SSPC SP6

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

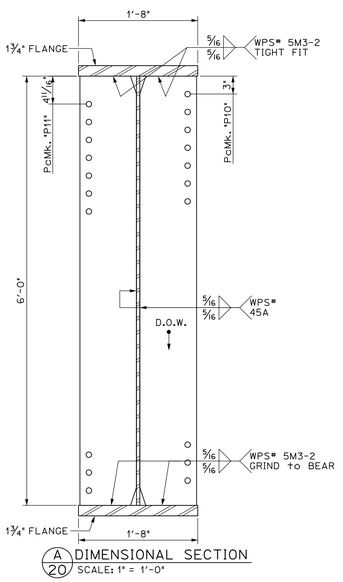
DRAFTER	JJH	GIRDER "G3-D"	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
CHECKED	DLM	SC: BECK & BELLUCCI	DWG. NO. 19
DATE	NOV. 2014		



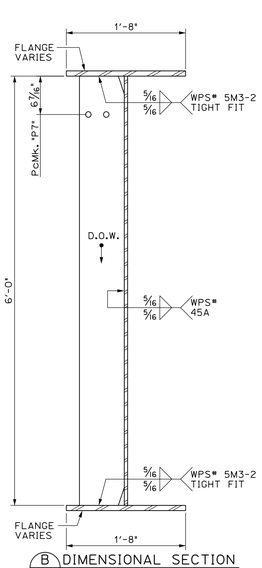
1/20 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G4-D"
SCALE: 3/8" = 1'-0"

BILL OF MATERIALS

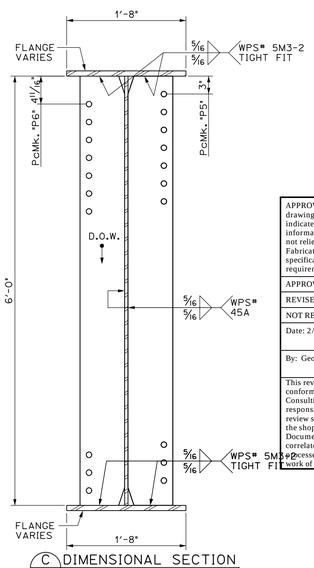
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G4-D			BRIDGE GIRDER ASSEMBLY	88'-11 13/16"	31,300#	
		1	WP30	℄ 9/16" x 72"	59'-0"	4150#	CVN
		1	WP31	℄ 9/16" x 72"	29'-11 15/16"	8150#	CVN
		1	TF37	℄ 1 1/8" x 20"	22'-1"	1725#	CVN
		1	TF38	℄ 1 3/4" x 20"	45'-0"	5400#	CVN
		1	TF39	℄ 1 1/8" x 20"	21'-10 1/4"	1725#	CVN
		1	BF37	℄ 1 1/8" x 20"	22'-0"	1725#	CVN
		1	BF38	℄ 1 3/4" x 20"	45'-0"	5400#	CVN
		1	BF39	℄ 1 1/8" x 20"	21'-11 7/8"	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			



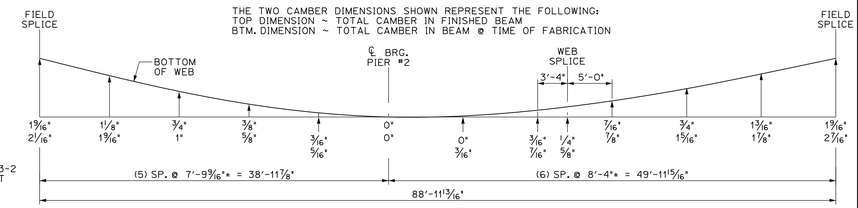
A 20 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



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



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



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

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	Stantec
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 2/19/15		
By: George Bogue		

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Vermont Agency of Transportation
RECEIVED
ON: February 18, 2015
and Checked for
CONFORMANCE
BY: D Bonneau DATE: 03/17/15

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

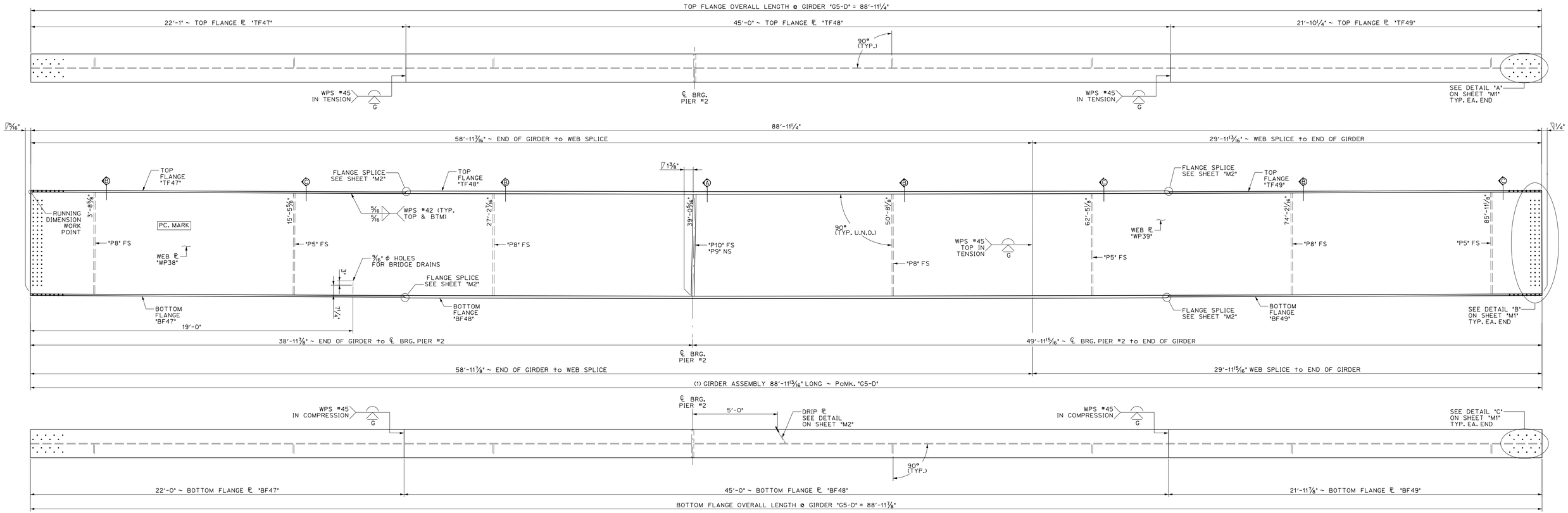
FINISH	SSPC SP6
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W
HOLES	15/16 " Ø U.N.O.
ELECTRODES	PER WELD PROCEDURE
WELDS	PER WELD PROCEDURE
SURFACE PREP	SSPC SP6

NO.	DATE	DESCRIPTION	BY

REVISIONS

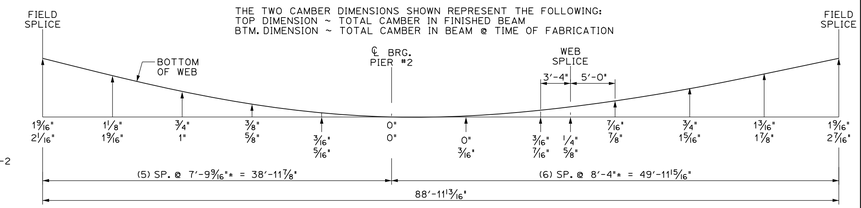
ARC ENTERPRISES, INC.
ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
P.O. BOX 120 KINGFIELD, ME. 04947
PHONE: (207) 265-2646 - FAX: (207) 265-4054

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



1/21 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G5-D"

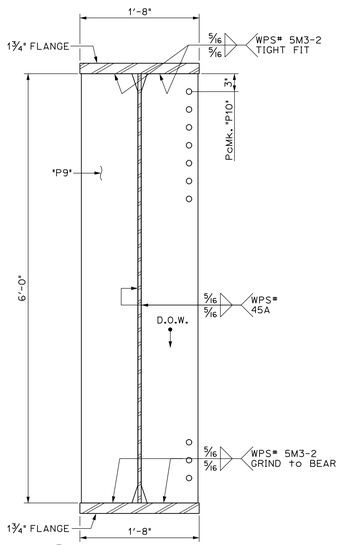
SCALE: 3/8" = 1'-0"



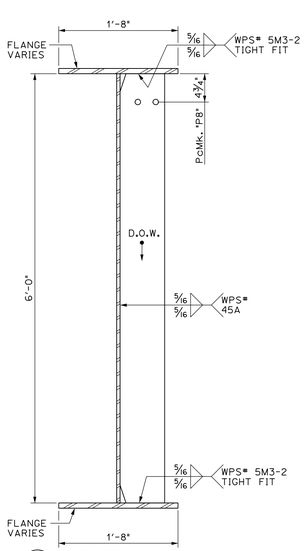
GIRDER "G5-D" CAMBER
N.T.S.

BILL OF MATERIALS

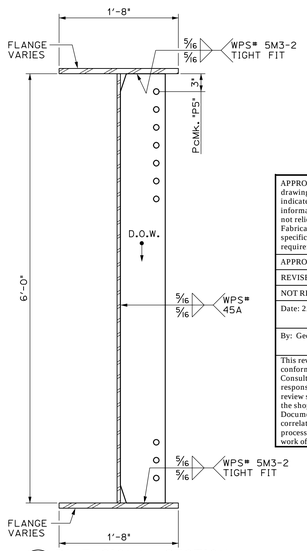
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G5-D			BRIDGE GIRDER ASSEMBLY	88'-11 13/16"	31,100#	
		1	WP38	℄ 9/16" x 72"	59'-0"	4150#	CVN
		1	WP39	℄ 9/16" x 72"	29'-11 15/16"	8150#	CVN
		1	TF47	℄ 1 1/8" x 20"	22'-1"	1725#	CVN
		1	TF48	℄ 1 3/4" x 20"	45'-0"	5400#	CVN
		1	TF49	℄ 1 1/8" x 20"	21'-10 1/4"	1725#	CVN
		1	BF47	℄ 1 1/8" x 20"	22'-0"	1725#	CVN
		1	BF48	℄ 1 3/4" x 20"	45'-0"	5400#	CVN
		1	BF49	℄ 1 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			



A 21 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



B 21 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



C 21 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	Stantec
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 2/19/15		
By: George Bogue		
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Vermont Agency of Transportation
RECEIVED
ON: February 18, 2015
and Checked for
CONFORMANCE
BY: D Bonneau DATE: 03/17/15

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

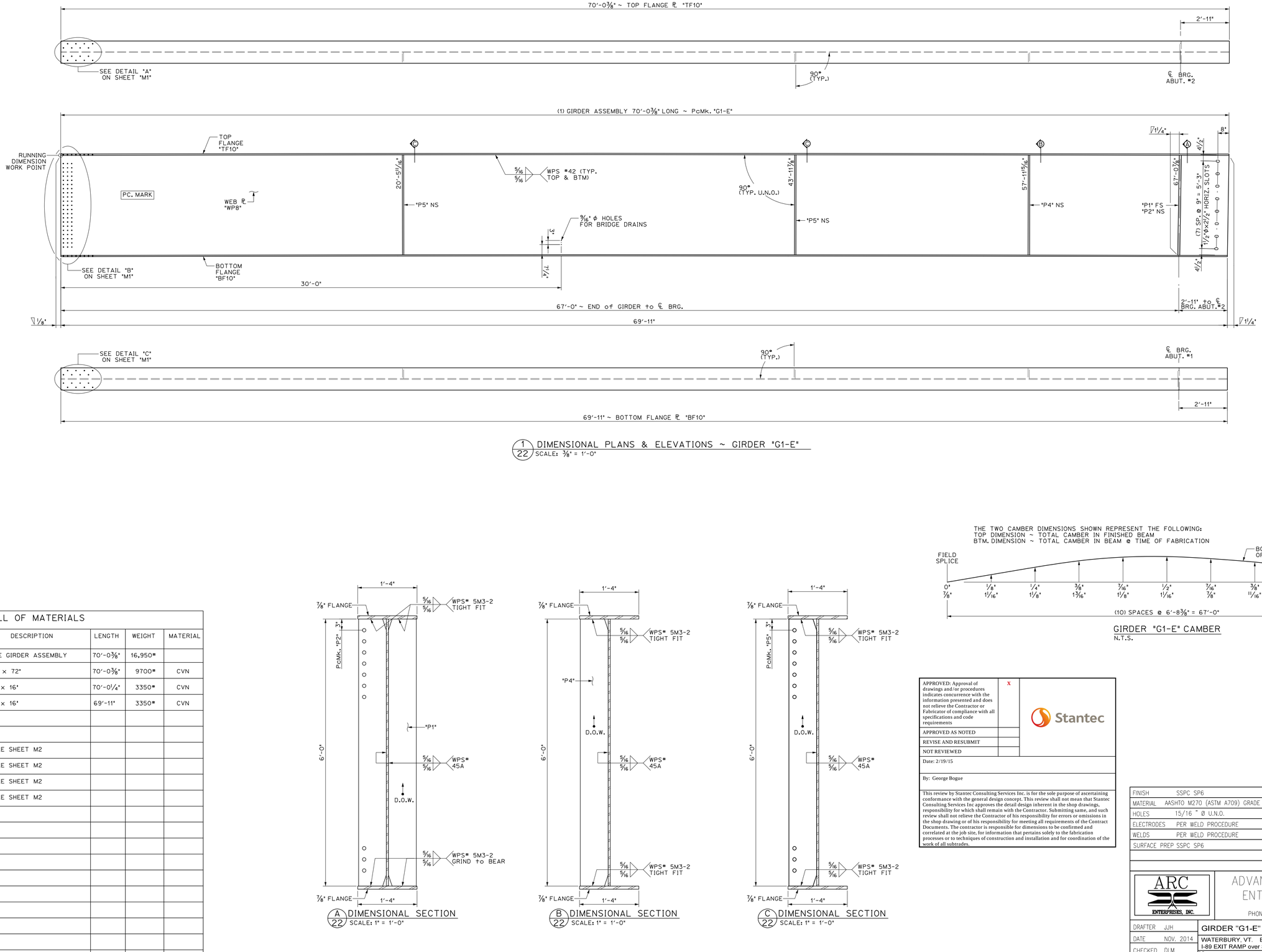
FINISH	SSPC SP6		
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W		
HOLES	15/16 " Ø U.N.O.		
ELECTRODES	PER WELD PROCEDURE		
WELDS	PER WELD PROCEDURE		
SURFACE PREP	SSPC SP6		

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-D"	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
CHECKED	DLM	SC: BECK & BELLUCCI	DWG. NO. 21
DATE	NOV. 2014		



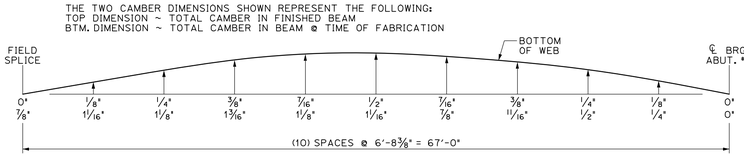
1/22 DIMENSIONAL PLANS & ELEVATIONS ~ GIRDER "G1-E"
SCALE: 3/8" = 1'-0"

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	℄ 9/16" x 72"	70'-0 3/8"	9700#	CVN
		1	TF10	℄ 7/8" x 16"	70'-0 1/4"	3350#	CVN
		1	BF10	℄ 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 22 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

B 22 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

C 22 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"



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

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	Stantec
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 2/19/15		
By: George Bogue		
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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	

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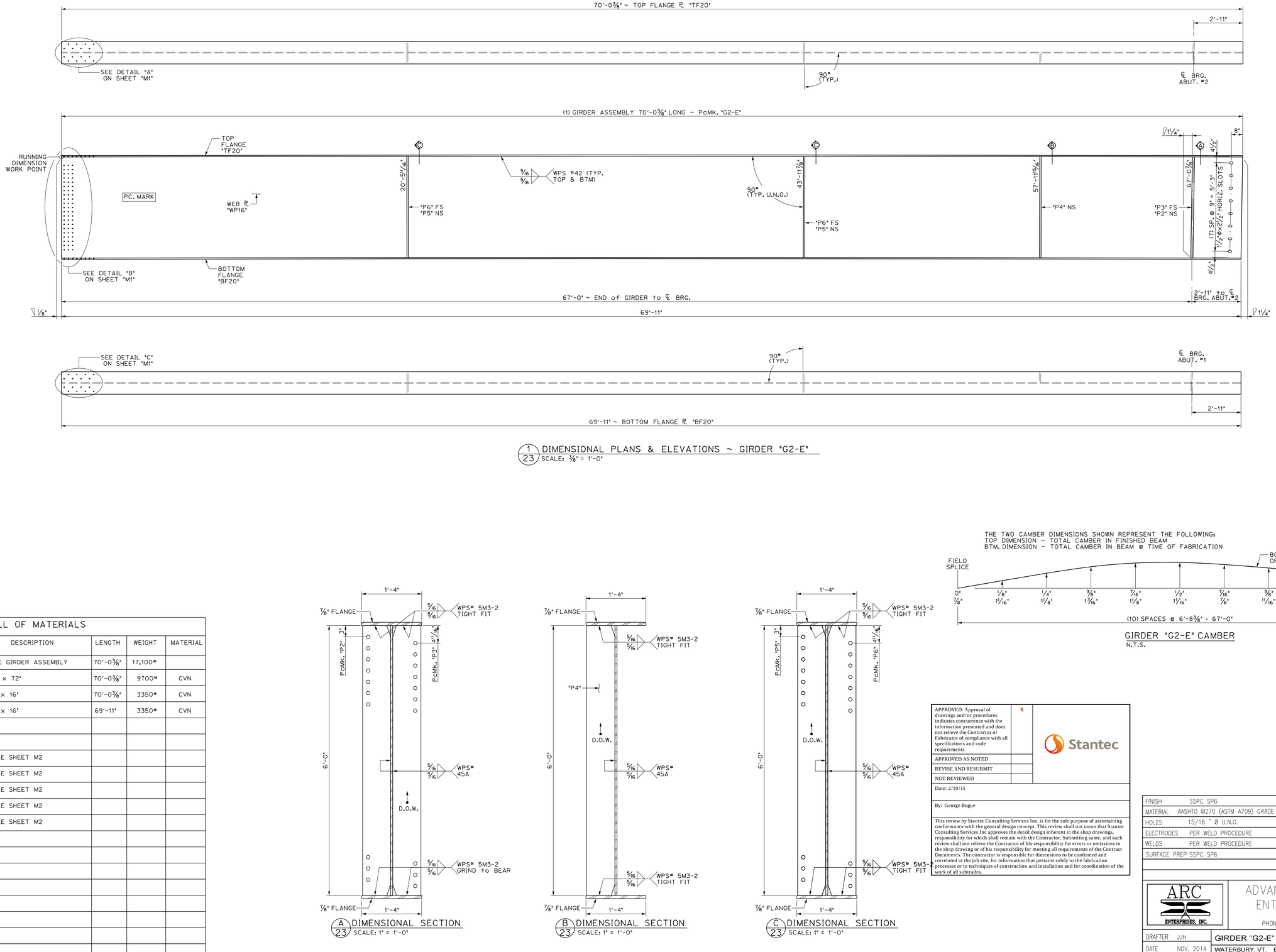
ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
P.O. BOX 120 KINGFIELD, ME. 04947
PHONE: (207) 265-2646 - FAX: (207) 265-4054

DRAFTER	JJH	GIRDER "G1-E"	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
CHECKED	DLM		DWG. NO.
DATE	NOV. 2014	BECK & BELLUCCI	22



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

BILL OF MATERIALS

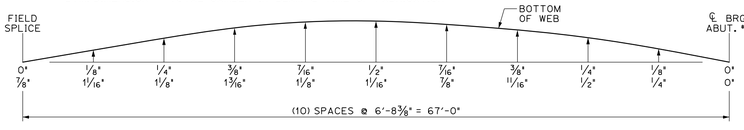
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G2-E			BRIDGE GIRDER ASSEMBLY	70'-0 3/8"	17,100#	
		1	WP16	℄ 9/16" x 72"	70'-0 3/8"	9700#	CVN
		1	TF20	℄ 7/8" x 16"	70'-0 3/8"	3350#	CVN
		1	BF20	℄ 7/8" x 16"	69'-11"	3350#	CVN
		1	P2	SEE SHEET M2			
		1	P3	SEE SHEET M2			
		1	P4	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"

THE TWO CAMBER DIMENSIONS SHOWN REPRESENT THE FOLLOWING:
TOP DIMENSION ~ TOTAL CAMBER IN FINISHED BEAM
BTM. DIMENSION ~ TOTAL CAMBER IN BEAM @ TIME OF FABRICATION



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

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	Stantec
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 2/19/15		
By: George Bogue		
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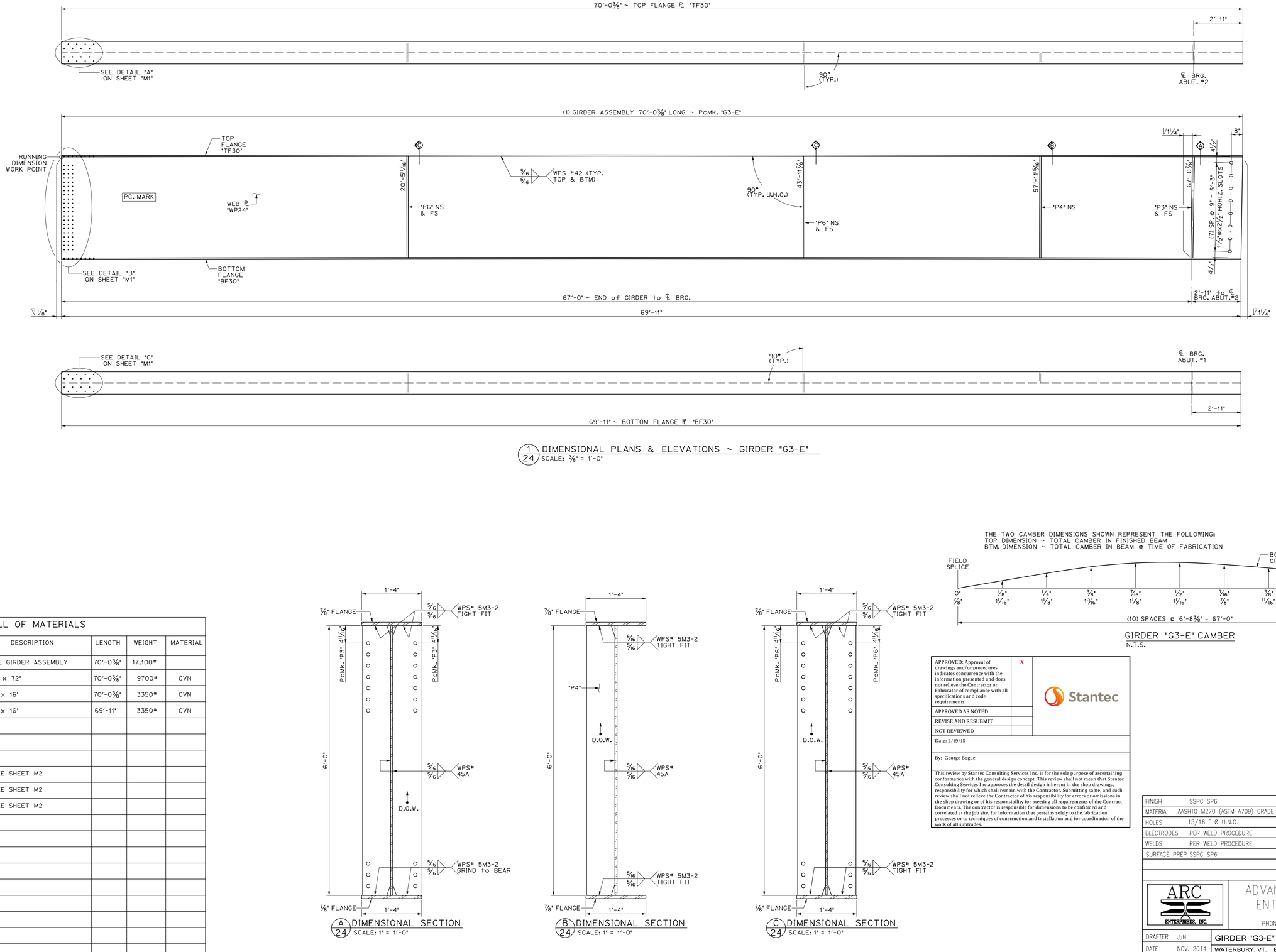
PROJECT No. IM 089-2(43)
ITEM No. 506.55

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 "G2-E"	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO. 23
CHECKED	DLM		
DATE	NOV. 2014	BECK & BELLUCCI	



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

BILL OF MATERIALS

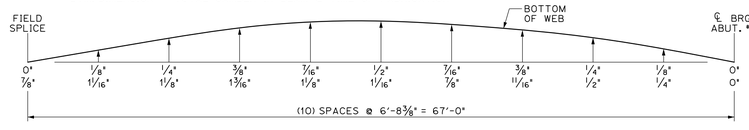
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G3-E			BRIDGE GIRDER ASSEMBLY	70'-0 3/8"	17,100#	
		1	WP24	℄ 9/16" x 72"	70'-0 3/8"	9700#	CVN
		1	TF30	℄ 7/8" x 16"	70'-0 3/8"	3350#	CVN
		1	BF30	℄ 7/8" x 16"	69'-11"	3350#	CVN
		2	P3	SEE SHEET M2			
		1	P4	SEE SHEET M2			
		4	P6	SEE SHEET M2			

A 1/24 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

B 1/24 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

C 1/24 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

THE TWO CAMBER DIMENSIONS SHOWN REPRESENT THE FOLLOWING:
TOP DIMENSION ~ TOTAL CAMBER IN FINISHED BEAM
BTM. DIMENSION ~ TOTAL CAMBER IN BEAM @ TIME OF FABRICATION



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

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	Stantec
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 2/19/15		
By: George Bogue		

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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	

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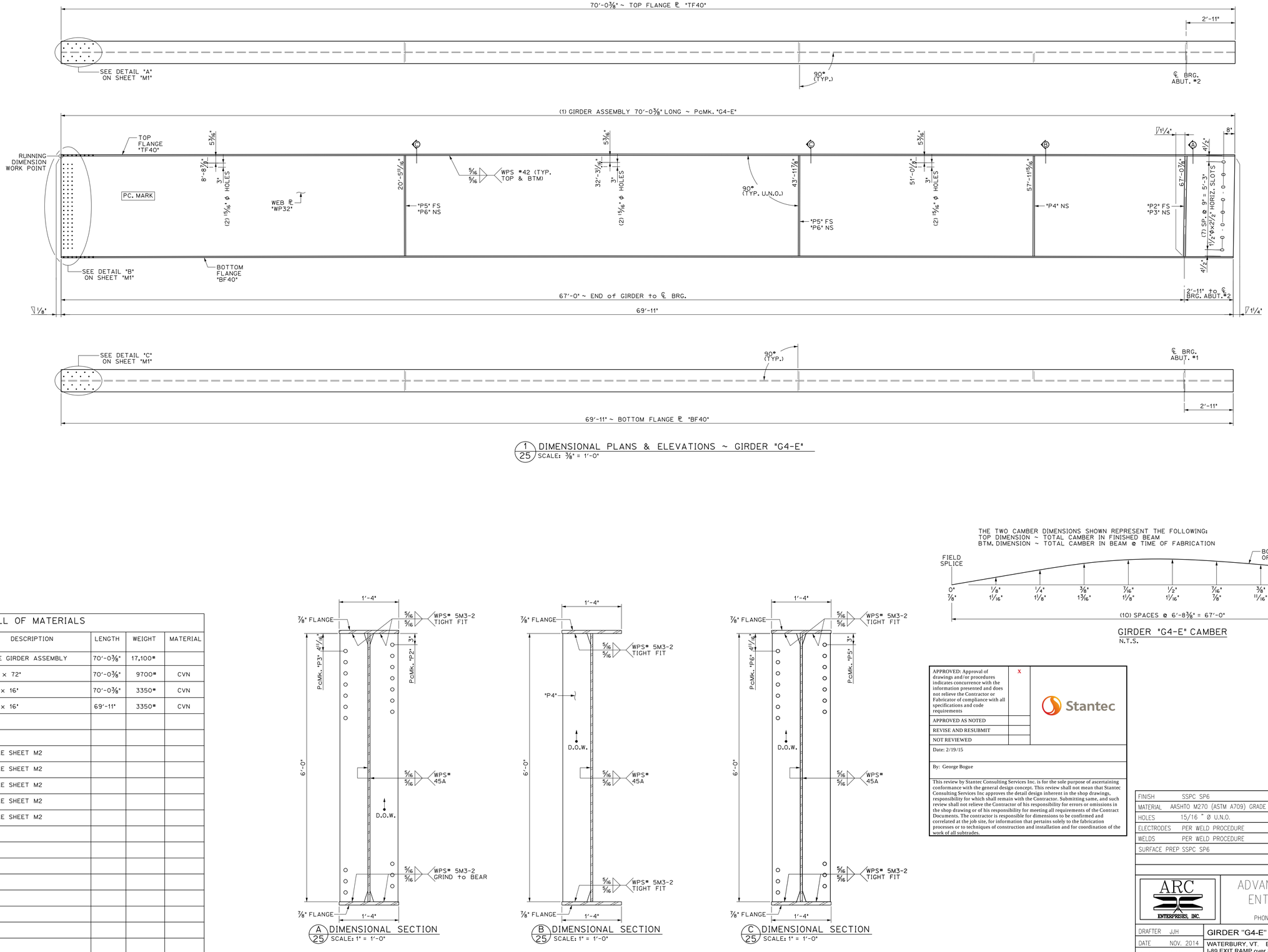
PHONE: (207) 265-2646 - FAX: (207) 265-4054

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



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

BILL OF MATERIALS

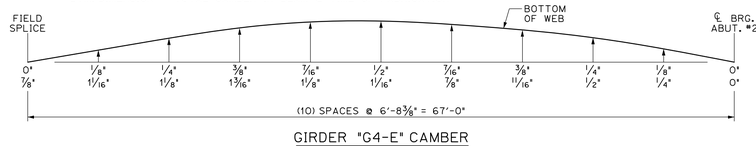
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G4-E			BRIDGE GIRDER ASSEMBLY	70'-0 3/8"	17,100#	
		1	WP32	℄ 9/16" x 72"	70'-0 3/8"	9700#	CVN
		1	TF40	℄ 7/8" x 16"	70'-0 3/8"	3350#	CVN
		1	BF40	℄ 7/8" x 16"	69'-11"	3350#	CVN
		1	P2	SEE SHEET M2			
		1	P3	SEE SHEET M2			
		1	P4	SEE SHEET M2			
		2	P5	SEE SHEET M2			
		2	P6	SEE SHEET M2			

A 25 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

B 25 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

C 25 DIMENSIONAL SECTION
SCALE: 1" = 1'-0"

THE TWO CAMBER DIMENSIONS SHOWN REPRESENT THE FOLLOWING:
TOP DIMENSION ~ TOTAL CAMBER IN FINISHED BEAM
BTM. DIMENSION ~ TOTAL CAMBER IN BEAM @ TIME OF FABRICATION



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

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	Stantec
APPROVED AS NOTED		
REVISE AND RESUBMIT		
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Date: 2/19/15		
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PROJECT No. IM 089-2(43)
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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	

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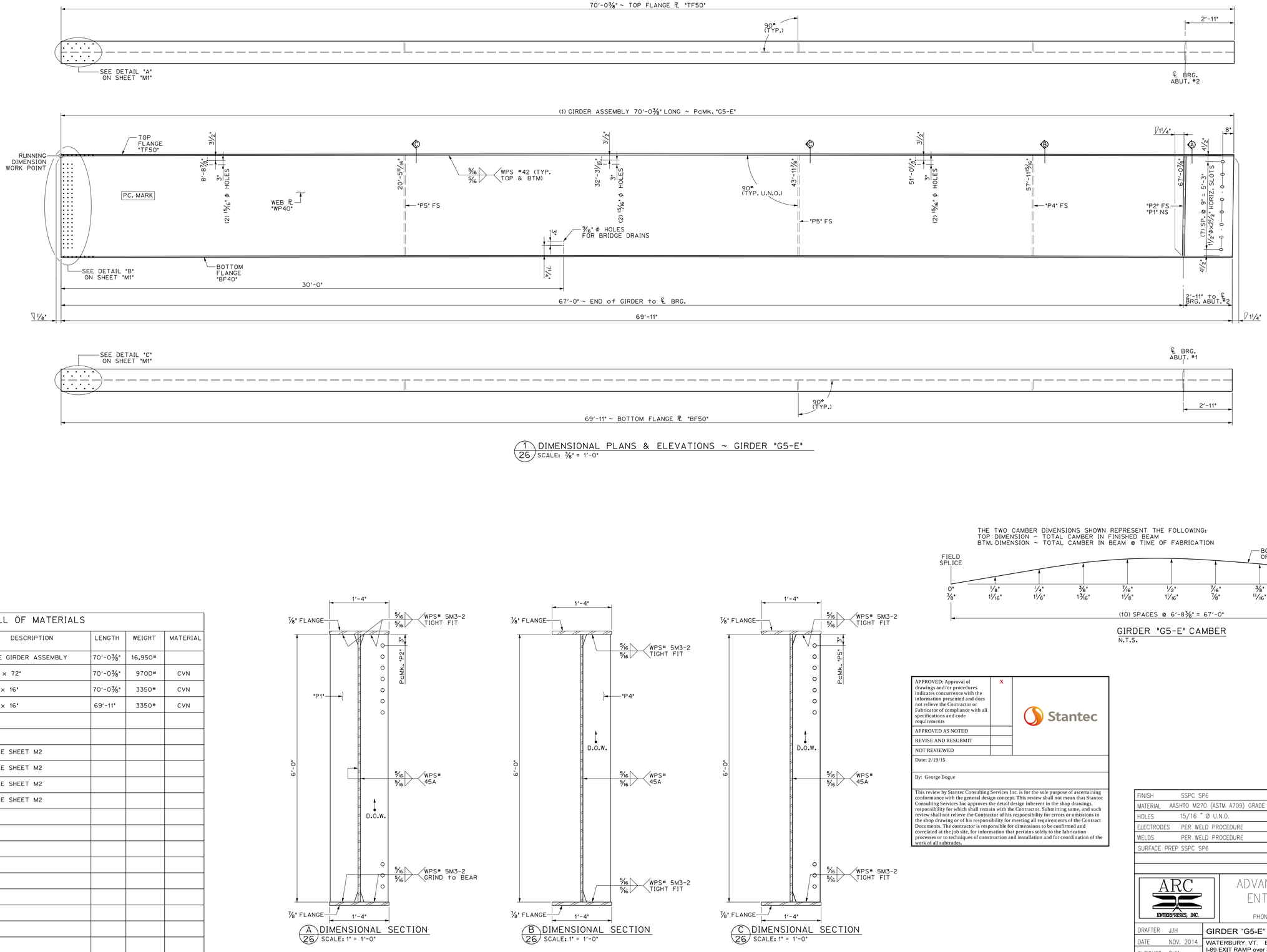
ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
P.O. BOX 120 KINGFIELD, ME. 04947
PHONE: (207) 265-2646 - FAX: (207) 265-4054

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



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

BILL OF MATERIALS

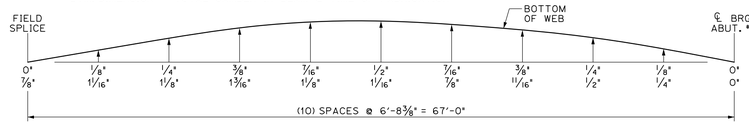
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
1	G5-E			BRIDGE GIRDER ASSEMBLY	70'-0 3/8"	16,950#	
		1	WP40	℄ 9/16" x 72"	70'-0 3/8"	9700#	CVN
		1	TF50	℄ 7/8" x 16"	70'-0 3/8"	3350#	CVN
		1	BF50	℄ 7/8" x 16"	69'-11"	3350#	CVN
		1	P1	SEE SHEET M2			
		1	P2	SEE SHEET M2			
		1	P4	SEE SHEET M2			
		2	P5	SEE SHEET M2			

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

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

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

THE TWO CAMBER DIMENSIONS SHOWN REPRESENT THE FOLLOWING:
TOP DIMENSION ~ TOTAL CAMBER IN FINISHED BEAM
BTM. DIMENSION ~ TOTAL CAMBER IN BEAM @ TIME OF FABRICATION



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

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	Stantec
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 2/19/15		
By: George Bogue		

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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	

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ADVANCED RESOURCES & CONST. ENTERPRISES, INCORPORATED
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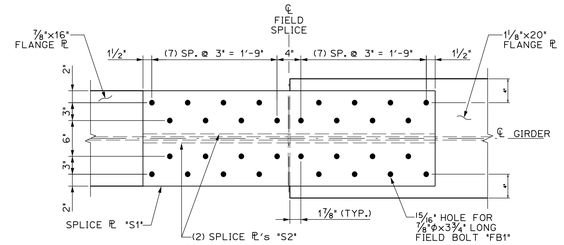
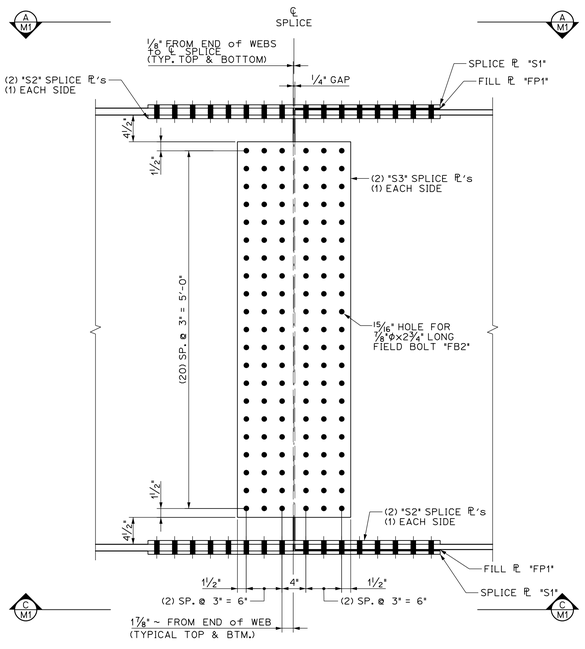
PHONE: (207) 265-2646 - FAX: (207) 265-4054

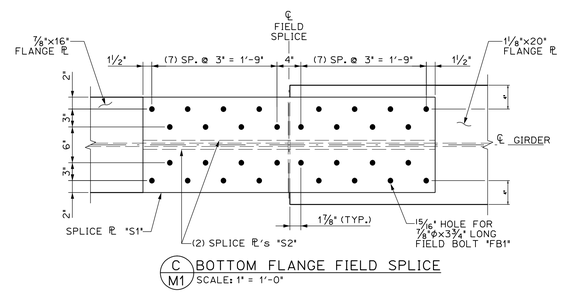
DRAFTER	JJH	GIRDER "G5-E"	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
CHECKED	DLM		DWG. NO.
DATE	NOV. 2014	BECK & BELLUCCI	26



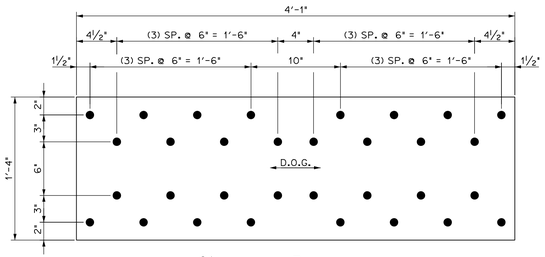
A / M1 TOP FLANGE FIELD SPLICE
SCALE: 1" = 1'-0"



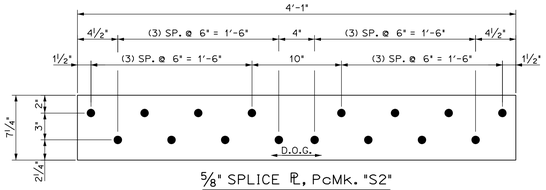
B / M1 WEB FIELD SPLICE
SCALE: 1" = 1'-0"
FIELD SPLICES 2&4 SHOWN
FIELD SPLICES 1&3 OPPOSITE HAND



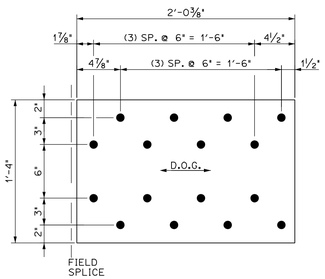
C / M1 BOTTOM FLANGE FIELD SPLICE
SCALE: 1" = 1'-0"



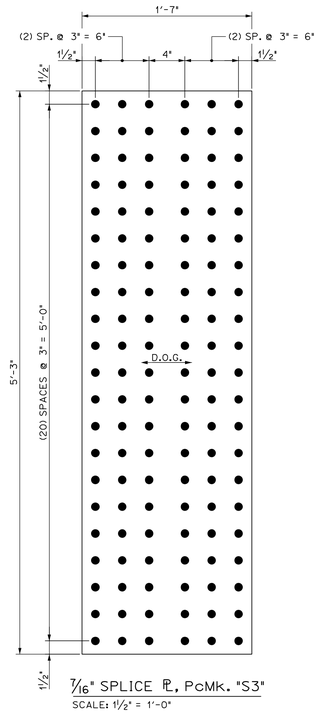
9/16" SPLICE PL, PcMk. "S1"
SCALE: 1 1/2" = 1'-0"



5/8" SPLICE PL, PcMk. "S2"
SCALE: 1 1/2" = 1'-0"



1/4" FILL PL, PcMk. "FP1"
SCALE: 1 1/2" = 1'-0"



7/16" SPLICE PL, PcMk. "S3"
SCALE: 1 1/2" = 1'-0"

COMPLETE BOLT SCHEDULE

NO. BOLTS	PIECE MARK	LENGTH	DESCRIPTION	LOCATION
1280	FB1	3 3/4"	7/8"ø BOLT w/N&W (WEATHERING) ASTM A325, TYPE 3	TOP & BTM. FLANGES FIELD SPLICE
2680	FB2	2 3/4"	7/8"ø BOLT w/N&W (WEATHERING) ASTM A325, TYPE 3	-WEB PL FIELD SPLICE -ABUTMENT DIAPHRAGMS
1200	FB3	2 1/2"	7/8"ø BOLT w/N&W (WEATHERING) ASTM A325, TYPE 3	INTERMEDIATE DIAPHRAGMS
160	FB4	3 1/4"	7/8"ø BOLT w/N&W (WEATHERING) ASTM A325, TYPE 3	PIER DIAPHRAGMS
72	FB5	2 1/4"	7/8"ø BOLT w/N&W (WEATHERING) ASTM A325, TYPE 3	"U1" & "U2" TYPE UTILITY SUPPORTS

BILL OF MATERIALS

SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
40	S1			PL 9/16" x 16"	4'-1"	125# EACH	CVN
80	S2			PL 5/8" 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: 2/19/15

By: George Bogue

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Vermont Agency of Transportation
RECEIVED
ON: February 18, 2015
and Checked for
CONFORMANCE
BY: D Bonneau DATE: 03/17/15

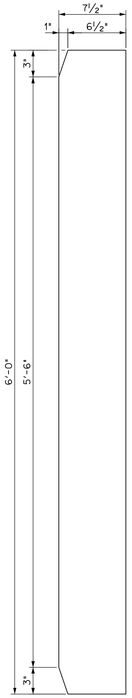
PROJECT No. IM 089-2(43)
ITEM No. 506.55

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			

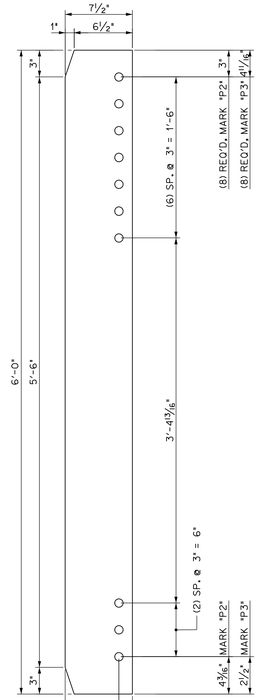
NO	DATE	DESCRIPTION	BY
REVISIONS			

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

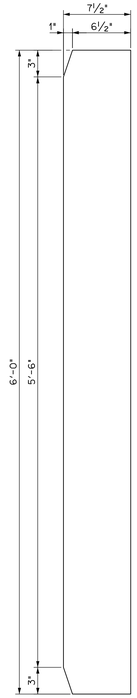
DRAFTER	JJH	MISCELLANEOUS DETAILS	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
CHECKED	DLM	SC: BECK & BELLUCCI	DWG. NO. M1
DATE	NOV. 2014		



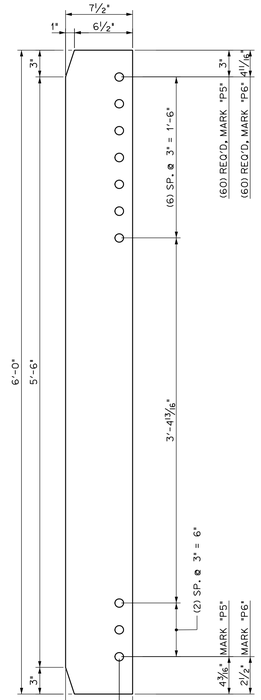
⅞" BEARING ℄, MARK "P1"
SCALE: 1½" = 1'-0"
FOR USE ON FASCIA GIRDERS @ ABUTMENTS



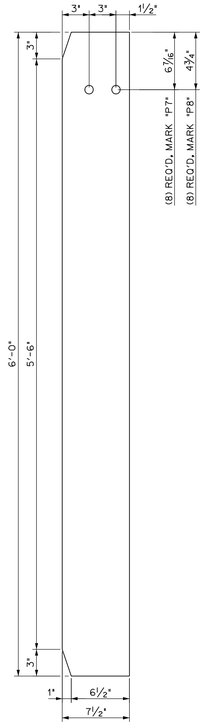
⅞" BEARING ℄'s
SCALE: 1½" = 1'-0"
FOR USE @ ABUTMENTS



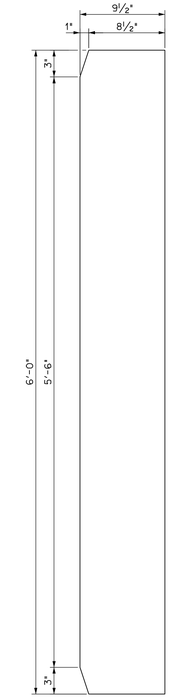
½" STIFFENER ℄, MARK "P4"
SCALE: 1½" = 1'-0"



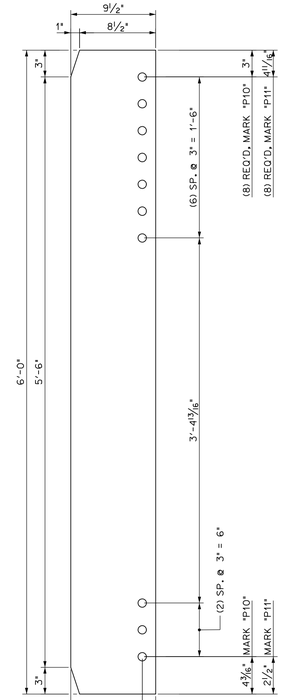
½" CONNECTION ℄'s
SCALE: 1½" = 1'-0"



½" CONNECTION ℄'s
SCALE: 1½" = 1'-0"
FOR USE AS ITS SUPPORT @ TRANSVERSE STIFFENER LOCATIONS



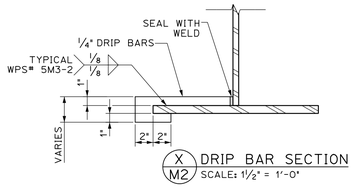
1¼" BEARING ℄, MARK "P9"
SCALE: 1½" = 1'-0"
FOR USE ON FASCIA GIRDERS @ PIERS



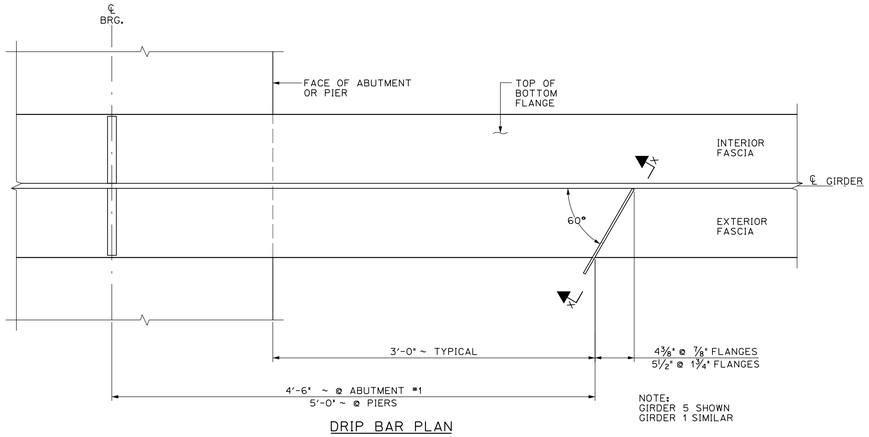
1¼" BEARING ℄'s
SCALE: 1½" = 1'-0"
FOR USE @ PIERS

BILL OF MATERIALS

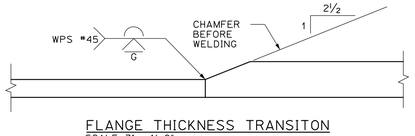
SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
4	P1			℄ ⅞" × 7½"	6'-0"	135# EACH	
8	P2			℄ ⅞" × 7½"	6'-0"	135# EACH	
8	P3			℄ ⅞" × 7½"	6'-0"	135# EACH	
34	P4			℄ ½" × 7½"	6'-0"	80# EACH	
60	P5			℄ ½" × 7½"	6'-0"	80# EACH	
60	P6			℄ ½" × 7½"	6'-0"	80# EACH	
8	P7			℄ ½" × 7½"	6'-0"	80# EACH	
8	P8			℄ ½" × 7½"	6'-0"	80# EACH	
4	P9			℄ 1¼" × 9½"	6'-0"	250# EACH	
8	P10			℄ 1¼" × 9½"	6'-0"	250# EACH	
8	P11			℄ 1¼" × 9½"	6'-0"	250# EACH	



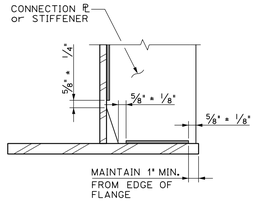
X / M2 DRIP BAR SECTION
SCALE: 1½" = 1'-0"



DRIP BAR PLAN



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



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

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	Stantec
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 2/19/15		
By: George Bogue		
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Vermont Agency of Transportation
RECEIVED
ON: February 18, 2015
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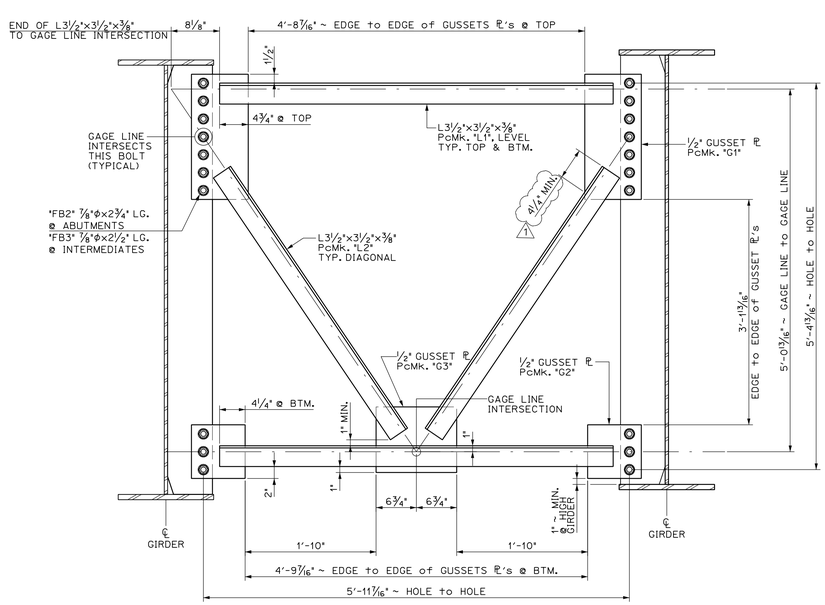
CONFORMANCE
BY: D Bonneau DATE: 03/17/15

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

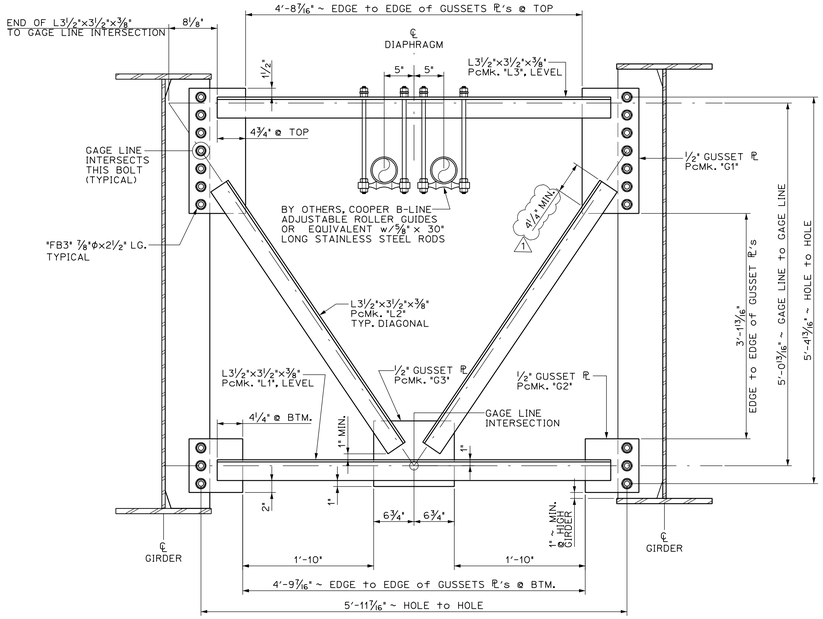
FINISH	SSPC SP6			
MATERIAL	AASHTO M270 (ASTM A709) GRADE 50W			
HOLES	15/16 " Ø U.N.O.			
ELECTRODES	PER WELD PROCEDURE			
WELDS	PER WELD PROCEDURE			
SURFACE PREP	SSPC SP6			
		NO	DATE	DESCRIPTION BY
		REVISIONS		

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

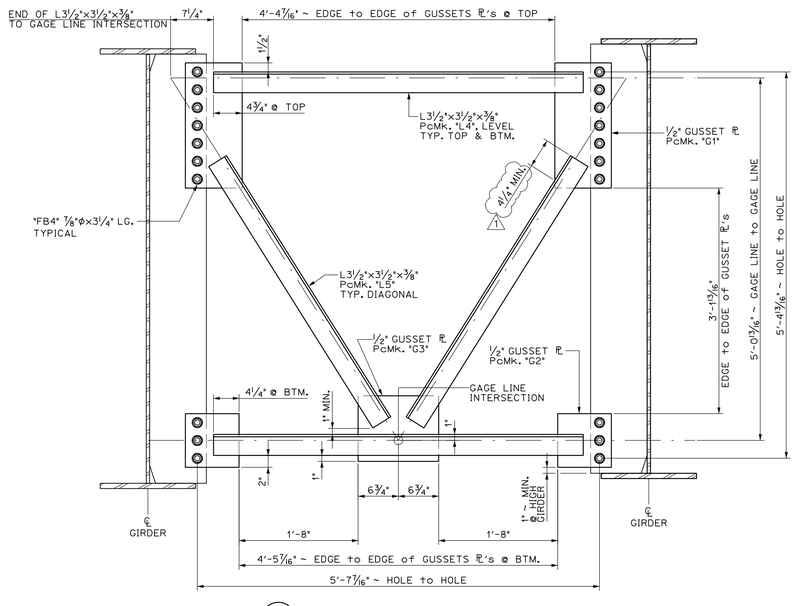
DRAFTER	JJH	MISCELLANEOUS DETAILS	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
CHECKED	DLM	BC: BECK & BELLUCCI	DWG. NO. M2
DATE	NOV. 2014		



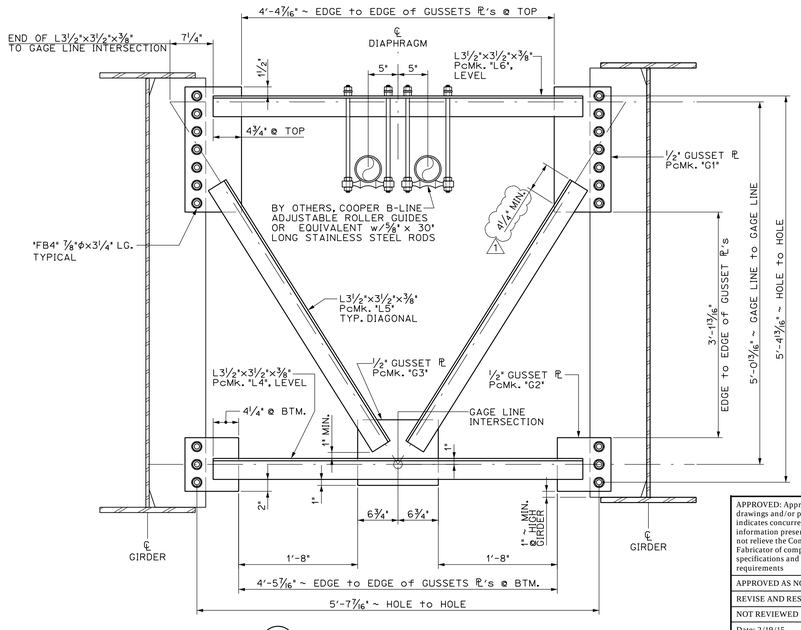
A M3 **"D1" TYPE DIAPHRAGMS**
SCALE: 1" = 1'-0"
(53) REQ'D TOTAL, (8) ø ABUTMENTS, & (45) INTERMEDIATES



B M3 **"D2" TYPE DIAPHRAGMS**
SCALE: 1" = 1'-0"
(15) REQ'D TOTAL, ø INTERMEDIATE LOCATIONS



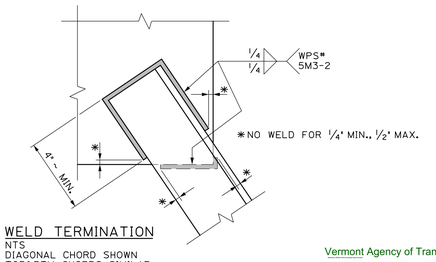
C M3 **"D3" TYPE DIAPHRAGMS**
SCALE: 1" = 1'-0"
(6) REQ'D TOTAL ø PIERS



D M3 **"D4" TYPE DIAPHRAGMS**
SCALE: 1" = 1'-0"
(2) REQ'D TOTAL ø PIERS

BILL OF MATERIALS

SHIP	SHIP MARK	NO. PCS.	PIECE MARK	DESCRIPTION	LENGTH	WEIGHT	MATERIAL
53	D1			INTERM. & ABUT. DIAPHRAGM		295# EACH	
		106	L1	L3½"×3½"×⅜"	5'-6"	50# EACH	
		106	L2	L3½"×3½"×⅜"	4'-5"	40# EACH	
		106	G1	℄ ½"×9½"	1'-9"	30# EACH	
		106	G2	℄ ½"×9"	0'-9"	15# EACH	
		53	G3	℄ ½"×11"	1'-1½"	25# EACH	
15	D2			INTERMEDIATE DIAPHRAGMS		295# EACH	
		15	L1	L3½"×3½"×⅜"	5'-6"	50# EACH	
		30	L2	L3½"×3½"×⅜"	4'-5"	40# EACH	
		15	L3	L3½"×3½"×⅜" w/UTILITY HOLES	5'-6"	50# EACH	
		30	G1	℄ ½"×9½"	1'-9"	30# EACH	
		30	G2	℄ ½"×9"	0'-9"	15# EACH	
		15	G3	℄ ½"×11"	1'-1½"	25# EACH	
6	D3			PIER DIAPHRAGMS		295# EACH	
		12	L4	L3½"×3½"×⅜"	5'-2"	50# EACH	
		12	L5	L3½"×3½"×⅜"	4'-3¾"	40# EACH	
		12	G1	℄ ½"×9½"	1'-9"	30# EACH	
		12	G2	℄ ½"×9"	0'-9"	15# EACH	
		6	G3	℄ ½"×11"	1'-1½"	25# EACH	
2	D4			PIER DIAPHRAGMS		295# EACH	
		2	L4	L3½"×3½"×⅜"	5'-2"	50# EACH	
		4	L5	L3½"×3½"×⅜"	4'-3¾"	40# EACH	
		2	L6	L3½"×3½"×⅜" w/UTILITY HOLES	5'-2"	50# EACH	
		4	G1	℄ ½"×9½"	1'-9"	30# EACH	
		4	G2	℄ ½"×9"	0'-9"	15# EACH	
		2	G3	℄ ½"×11"	1'-1½"	25# EACH	



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

Vermont Agency of Transportation
RECEIVED
ON: February 18, 2015
and Checked for
CONFORMANCE
BY: D Bonneau DATE: 03/17/15

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	1	2/17/15	MINIMUM WELD CALL-OUT	JJH
	NO	DATE	DESCRIPTION	BY
	REVISIONS			

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: 2/19/15
By: George Bogue

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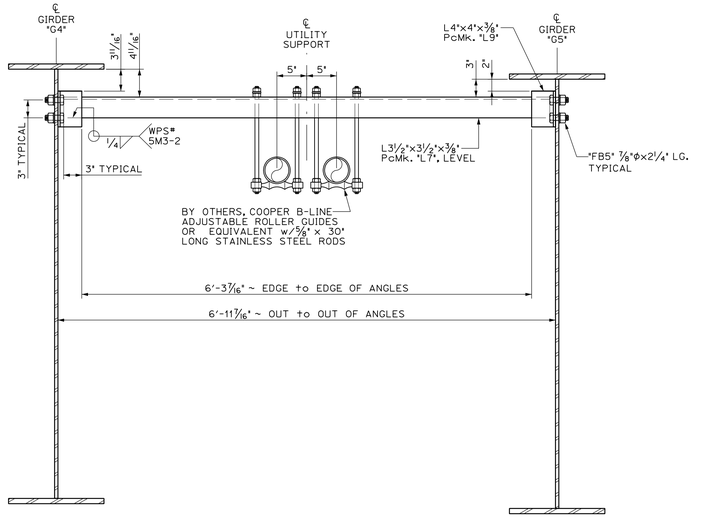
Stantec

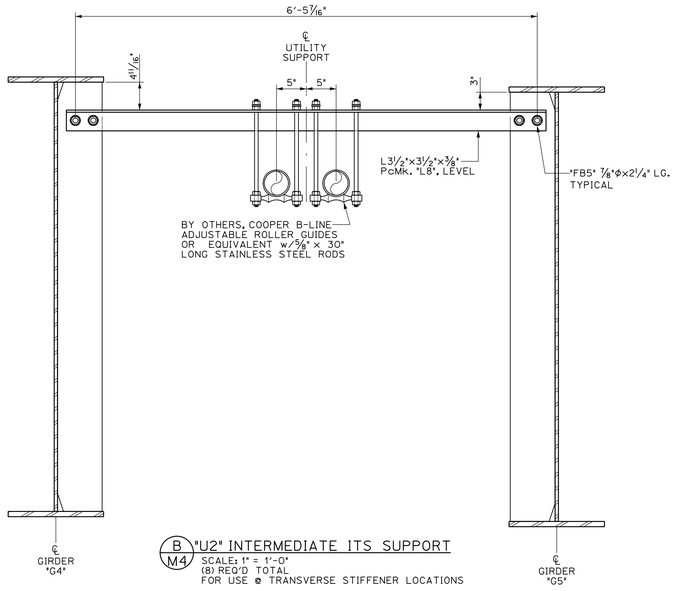
ARC ENTERPRISES, INC.

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

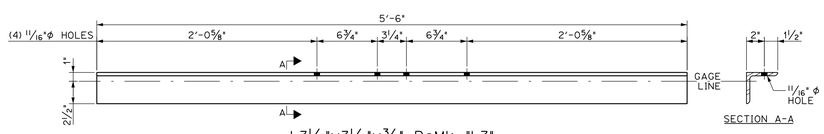
DRAFTER	JJH	DIAPHRAGM DETAILS	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	
CHECKED	DLM		DWG. NO. M3
DATE	NOV. 2014	CC: BECK & BELLUCCI	



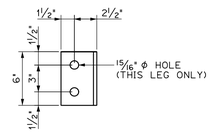
A M4 "U1" INTERMEDIATE ITS SUPPORT
SCALE: 1" = 1'-0"
(10) REQ'D TOTAL



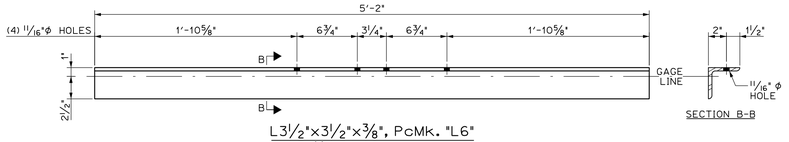
B M4 "U2" INTERMEDIATE ITS SUPPORT
SCALE: 1" = 1'-0"
(8) REQ'D TOTAL
FOR USE @ TRANSVERSE STIFFENER LOCATIONS



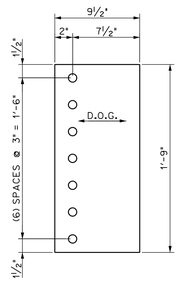
L3 1/2"x3 1/2"x3/8", PcMk. "L3"
SCALE: 1 1/2"=1'-0"
FOR USE ON "D2" TYPE DIAPHRAGMS



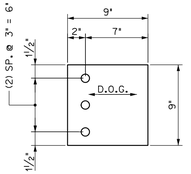
L4"x4"x3/8", PcMk. "L9"
SCALE: 1 1/2"=1'-0"
FOR USE ON "U1" TYPE SUPPORTS



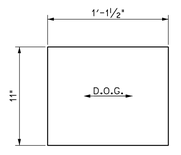
L3 1/2"x3 1/2"x3/8", PcMk. "L6"
SCALE: 1 1/2"=1'-0"
FOR USE ON "D4" TYPE DIAPHRAGMS



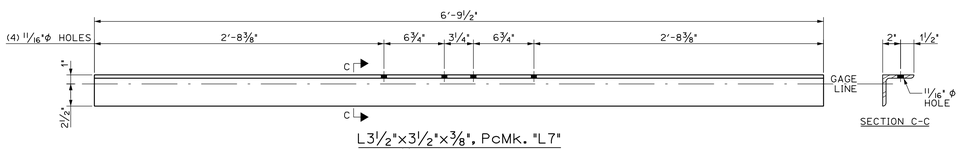
1/2" GUSSET PL, PcMk. "G1"
SCALE: 1 1/2" = 1'-0"



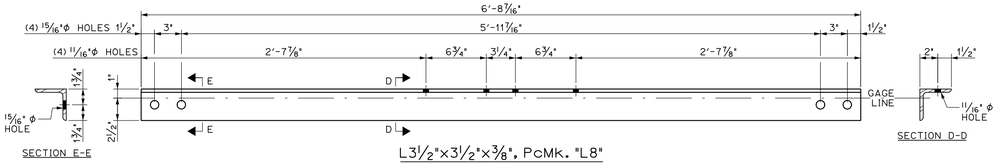
1/2" GUSSET PL, PcMk. "G2"
SCALE: 1 1/2" = 1'-0"



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



L3 1/2"x3 1/2"x3/8", PcMk. "L7"
SCALE: 1 1/2"=1'-0"
FOR USE ON "U1" TYPE SUPPORTS



L3 1/2"x3 1/2"x3/8", PcMk. "L8"
SCALE: 1 1/2"=1'-0"
FOR USE ON "U2" LOCATIONS

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"x3 1/2"x3/8"	6'-9 1/2"	60# EACH	
		20	L9	L4"x4"x3/8"	0'-6"	5# EACH	
8	U2			INTERMEDIATE ITS SUPPORT		60# EACH	
		8	L8	L3 1/2"x3 1/2"x3/8"	6'-8 7/16"	60# EACH	
121	••L1			L3 1/2"x3 1/2"x3/8"	5'-6"	50# EACH	
136	••L2			L3 1/2"x3 1/2"x3/8"	4'-5"	40# EACH	
15	L3			L3 1/2"x3 1/2"x3/8" w/UTILITY HOLES	5'-6"	50# EACH	
14	••L4			L3 1/2"x3 1/2"x3/8"	5'-2"	50# EACH	
16	••L5			L3 1/2"x3 1/2"x3/8"	4'-3 3/4"	40# EACH	
2	L6			L3 1/2"x3 1/2"x3/8" w/UTILITY HOLES	5'-2"	50# EACH	
10	L7			L3 1/2"x3 1/2"x3/8"	6'-9 1/2"	60# EACH	
8	L8			L3 1/2"x3 1/2"x3/8"	6'-8 7/16"	60# EACH	
20	L9			L4"x4"x3/8"	0'-6"	5# EACH	
152	G1			PL 1/2"x9 1/2"	1'-9"	30# EACH	
152	G2			PL 1/2"x9"	0'-9"	15# EACH	
76	G3			PL 1/2"x11"	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.

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	Stantec
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 2/19/15		
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	

Vermont Agency of Transportation
RECEIVED
ON: February 18, 2015
and Checked for
CONFORMANCE
BY: D Bonneau DATE: 03/17/15

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	UTILITIES & MISC. PIECE MARK DETAILS	PROJECT NO. 14-148
DATE	NOV. 2014	WATERBURY, VT. BRIDGE 46A	
CHECKED	DLM	I-89 EXIT RAMP over STOWE ST. & THATCHER BROOK	DWG. NO. M4
DATE	NOV. 2014	SC: BECK & BELLUCCI	