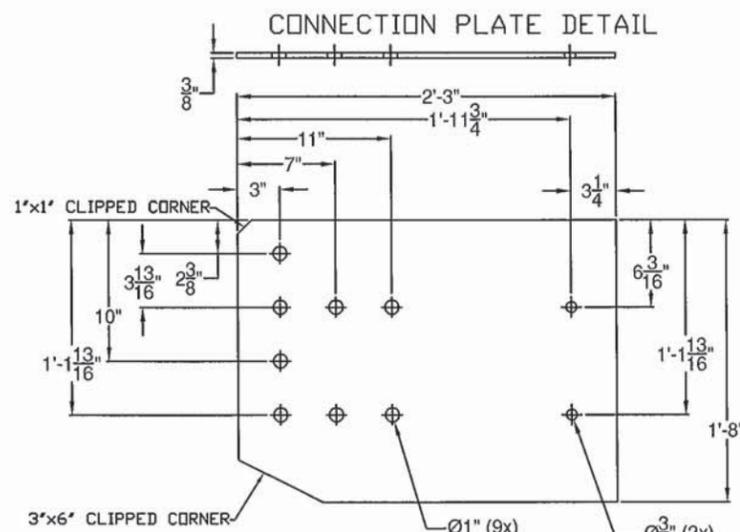
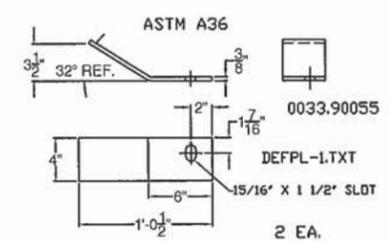
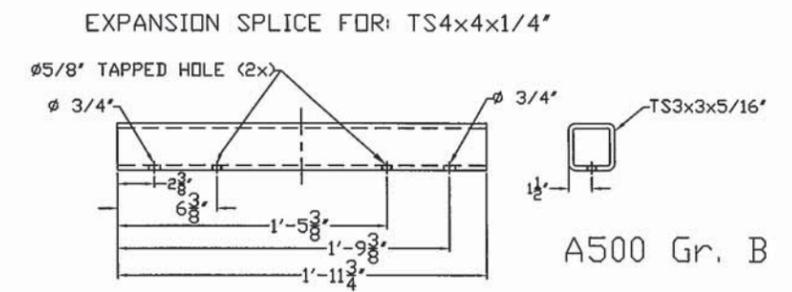
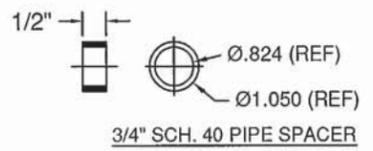
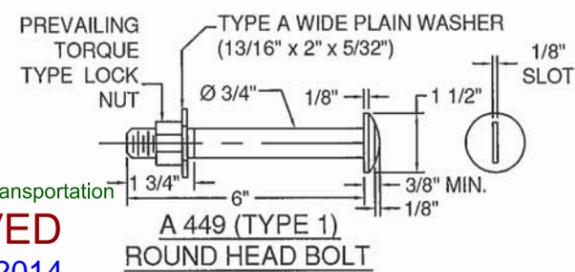


BILL OF MATERIAL (621.72) WW-1 & WW-2 (EACH)		
QTY	DESCRIPTION	ASTM DESIGNATION
1	THRIE BEAM TERMINAL CONNECTION (10 Ga)	AASHTO M180
1	THRIE BEAM TRANSITION @ 7'-3 1/2' (10 Ga)	AASHTO M180
1	CONNECTION PLATE	M270 Gr. 36
2	12' 6" THRIE BEAM (12Ga)	AASHTO M180
4	W6X25 POST @ 8'-0" (PUNCHING VARIES - POST 1-4)	A572 Gr. 50
1	DEFLECTOR PLATE (APPROACH OR TRAILING)	A36
1	8' X 4' X 5/16" RAIL @ 9'-4'	A500 Gr. B
1	4' X 4' X 1/4" RAIL @ 9'-4'	A500 Gr. B
1	8' X 4' X 1/4" END CAP	A36
1	4' X 4' X 1/4" END CAP	A36
1	7' x 3' x 3/8" SPLICE TUBE @ 1' 11 3/4"	A500 Gr. B
1	3' x 3' x 5/16" SPLICE TUBE @ 1' 11 3/4"	A500 Gr. B
8	Ø 3/4" SCH. 40 PIPE @ 1/2'	A53
8	Ø 5/8" X 1 3/4" HEX BOLTS	A307
8	Ø 5/8" FLAT WASHER, HARDENED, TYPE A, PLAIN WIDE	A307
7	Ø 3/4" X 6" CARRIAGE BOLT, & NUT	A307
1	Ø 3/4" X 2" CARRIAGE BOLT, & NUT	A307
19	Ø 5/8" X 1'-6" BUTTON HEAD POST BOLT, PLATE WASHER, F.W. & NUT	A307, A36, F844 or 307, & A563
32	Ø 5/8" X 1 1/4" BUTTON HEAD SPLICE BOLT, RECESSED NUT & F.W.	A307
19	3/16" SPEC. PLATE WASHER @ 1 3/4" X 3"	A36
16	Ø 3/4" X 6" ROUND HEAD BOLT, F.W., LOCK W. & NUT	A449, F436, ASME B18.21.1, & A563
10	6 X 8" WOOD POST @ 7'-0"	TIMBER
9	6 X 8" WOOD BLOCKOUTS @ 1'-6"	TIMBER
1	6 X 8" WOOD BLOCKOUTS @ 1'-2"	TIMBER
10	Ø 7/8" POST BOLT @ 18", F.W. & NUT	F568, F436, A563

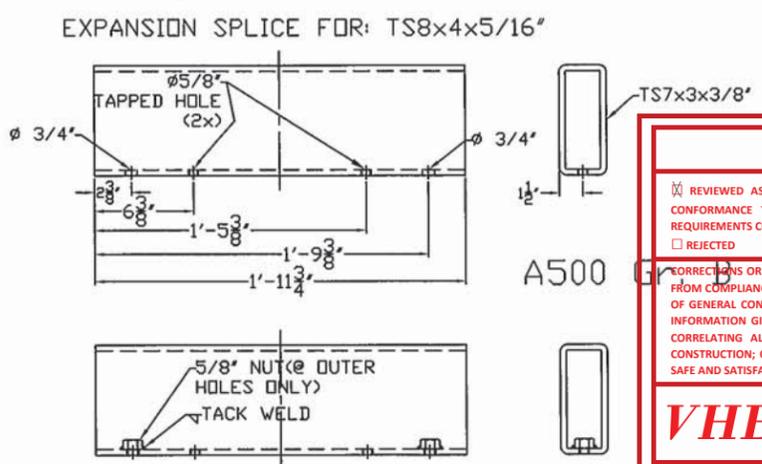
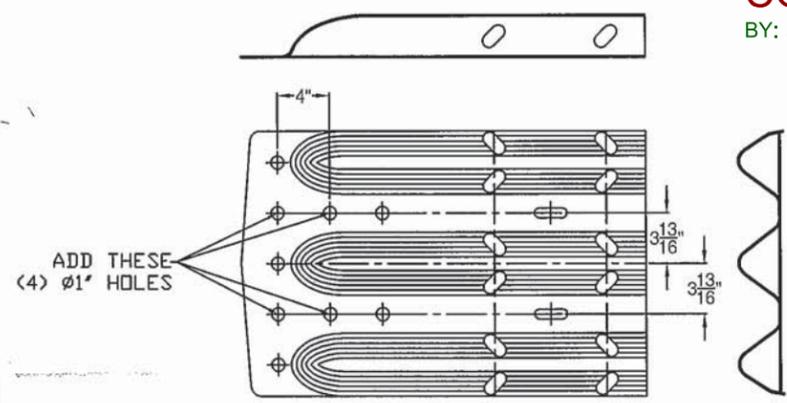
HARDWARE APPLICATION				
	QTY	DESCRIPTION	ASTM DESIGNATION	APPLICATION
A	8	Ø 5/8" X 1 3/4" HEX BOLTS	A307	USED IN SPLICE TUBES
B	8	Ø 5/8" FLAT WASHER, HARDENED, TYPE A, PLAIN WIDE	A307	FOR SPLICE TUBES,
C	7	Ø 3/4" X 6" CARRIAGE BOLT, & NUT	A307	TERM. CONN. & CONN. PLATE TO RAIL
D	1	Ø 3/4" X 2" CARRIAGE BOLT, & NUT	A307	DEFLECTOR PLATE TO CONN. PLATE
E	19	Ø 5/8" X 1'-6" BUTTON HEAD POST BOLT, PLATE WASHER, F.W. & NUT	A307, A36, F844 or A307, & A563	THRIE BEAM, TO OFFSET BLOCK, TO 6x8" POST
F	32	Ø 5/8" X 1 1/4" BUTTON HEAD SPLICE BOLT, RECESSED NUT & F.W.	A307	FASTEN PANEL COMPONENTS TOGETHER, (THRIE, TERMINAL CONNECTOR, TRANSITION SECTION)
G	19	3/16" (SPECIAL) PLATE WASHER @ 1 3/4" X 3"	A36	USED IN PANEL VALLEY, W/ 18" BOLT
H	16	Ø 3/4" X 6" ROUND HEAD BOLT, FL. WASHER, LOCK W. & NUT	A449, F436, ASME B18.21.1, & A563	FASTEN 4X4 & 4X8 RAIL TO RAIL POST 1-4



Vermont Agency of Transportation
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 ON: June 10, 2014
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CONFORMANCE
 BY: Jennifer Fitch DATE: 06/11/2014



DRAWINGS ARE FOR COMPONENTS, ASSEMBLE PER STANDARD S-360B



SHOP DRAWING REVIEW

REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED FOR CONFORMANCE TO THE DESIGN CONCEPT OF THE WORK, AND SUBJECT TO FURTHER LIMITATIONS AND REQUIREMENTS CONTAINED IN THE CONSTRUCTION CONTRACT DOCUMENTS.

APPROVED BY: _____

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VHB Job Number: 57517
 Reviewed By: B Masse
 Date: 6-11-14

MODIFICATION TO P/N 5143.40056 TO CREATE P/N 5143.90056

SHEET 1 OF 4

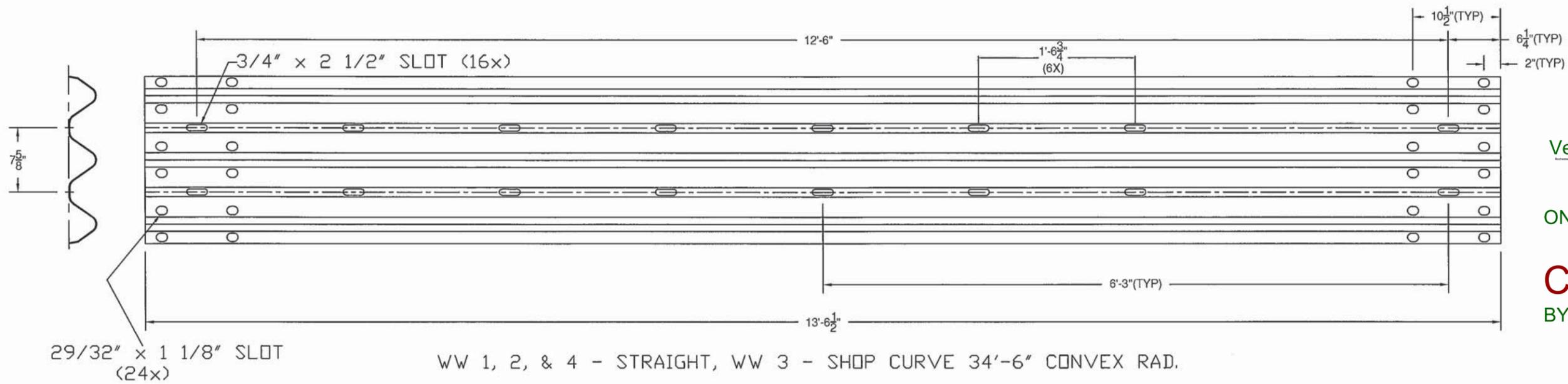
2 RAIL BRIDGE RAIL TO GUARDRAIL TRANSITION
 ROCHESTER, BRF 0162 (18) VT RTE 73 (MAJOR COLLECTOR), BRIDGE NO: 19, OVER WHITE RIVER TOWN OF ROCHESTER, COUNTY OF WINDSOR, VT

R NO.	DATE	DESCRIPTION	BY	R NO.	DATE	DESCRIPTION	BY
E 1	6/6/14	REVISED PER 5/30/14 MARK-UP	E.P. E				
V 2	6/10/14	REVISED PER 6/9/14 MARK-UP	E.P. V				

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 OAKS CORNERS, NEW YORK 14518
 E-Mail: dlong@elderlee.com
 Tel: 315-789-6670 Fax: 315-789-6615

CERTIFIED FABRICATOR

DRAWN E.P. 5/16/14
 CHECKED D.L. 5/16/14
 APPROVED
 SCALE SCHEMATIC
 DRAWING NO. F.R.L. ROCHESTER, TR19



WW 1, 2, & 4 - STRAIGHT, WW 3 - SHOP CURVE 34'-6" CONVEX RAD.

Vermont Agency of Transportation

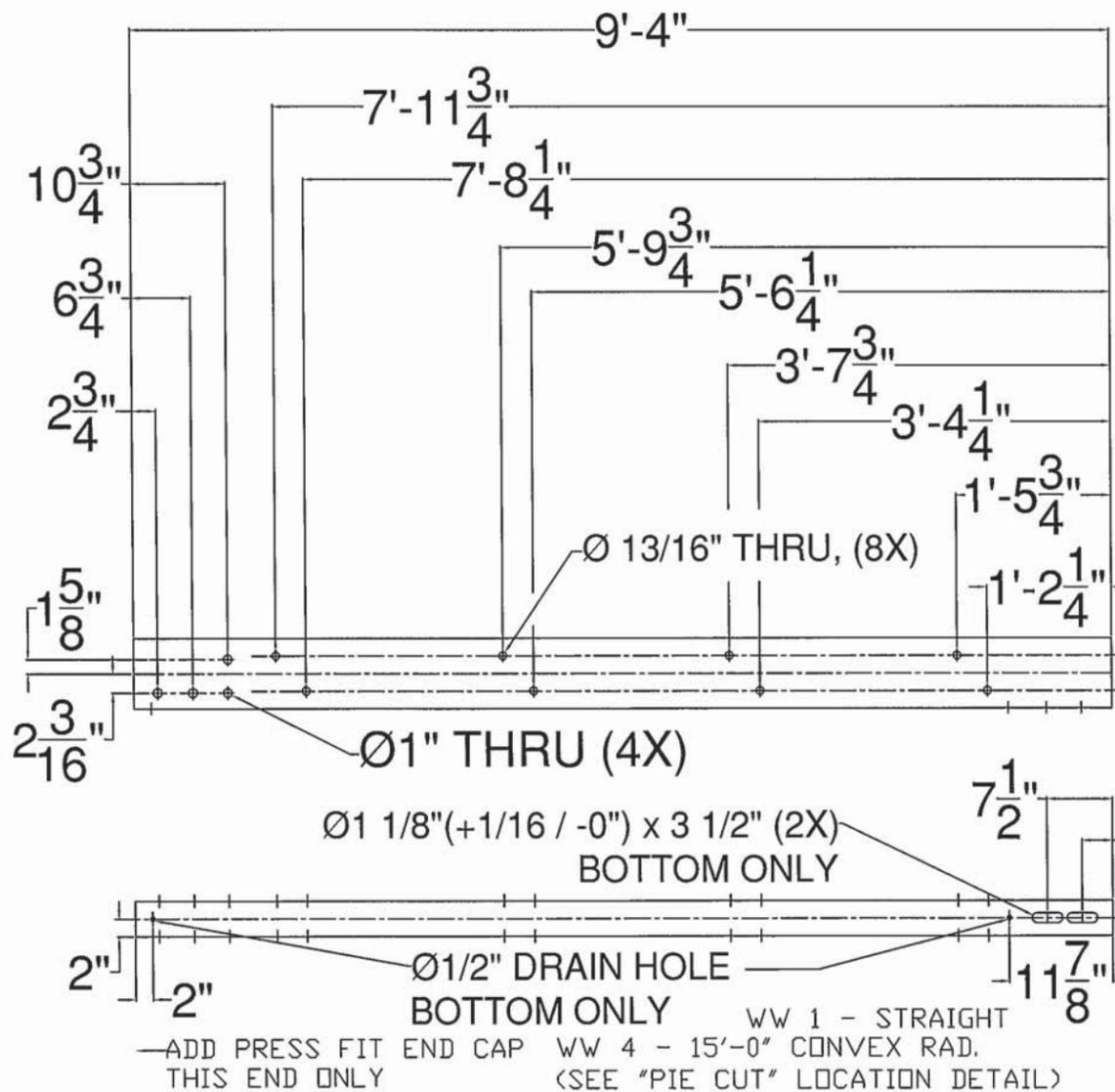
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ON: **June 10, 2014**

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BY: Jennifer Fitch DATE: 06/11/2014



TRAILING RAIL

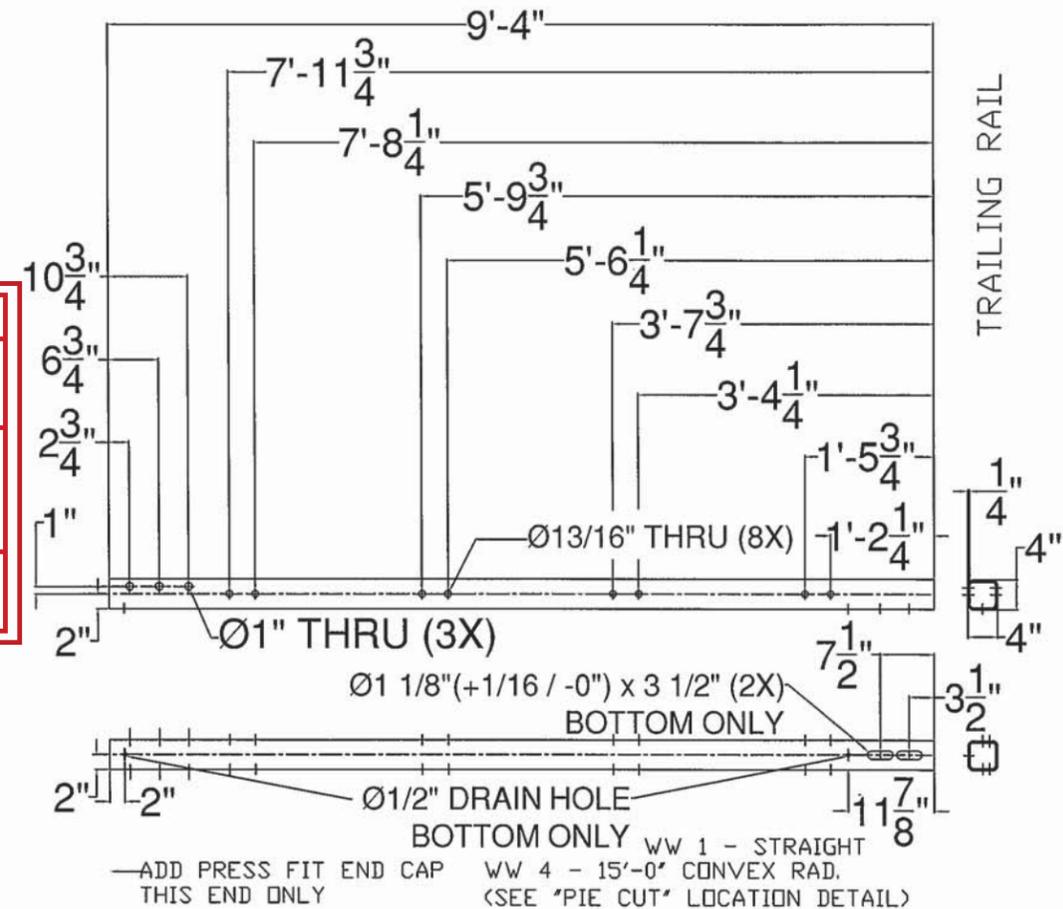
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VHB Job Number: 57517
 Reviewed By: B. Masse
 Date: 6-11-14



TRAILING RAIL

ITEM #: 621.72

SHEET 2 OF 4

APPROVED BY:

2 RAIL BRIDGE RAIL TO GUARDRAIL TRANSITION

ROCHESTER, BR# 0162 (18) VT RTE 73 (MAJOR COLLECTOR), BRIDGE NO: 19, OVER WHITE RIVER
 TOWN OF ROCHESTER, COUNTY OF WINDSOR, VT

R NO.	DATE	DESCRIPTION	BY	R NO.	DATE	DESCRIPTION	BY
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V 2	6/10/14	REVISED PER 6/9/14 MARK-UP	E.P. V				

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 Tel: 315-789-6670 Fax: 315-789-6615



DRAWN	E.P.	5/16/14
CHECKED	D.L.	5/16/14
APPROVED		
SCALE	SCHEMATIC	
DRAWING NO. F.R.L. ROCHESTER, TR19		

Vermont Agency of Transportation

RECEIVED

ON: **June 10, 2014**

and Checked for
CONFORMANCE

BY: Jennifer Fitch DATE: 06/11/2014

BILL OF MATERIAL (621.72) WW-3		
QTY	DESCRIPTION	ASTM DESIGNATION
1	THRIE BEAM TERMINAL CONNECTION (10 Ga)	AASHTO M180
1	THRIE BEAM TRANSITION @ 7'-3 1/2' (10 Ga)	AASHTO M180
1	CONNECTION PLATE	M270 Gr. 36
2	12' 6" THRIE BEAM (12Ga) W/ 34'-6" RAD.	AASHTO M180
4	W6X25 POST @ 8'-0" (PUNCHING VARIES - POST 1-4)	A572 Gr. 50
1	DEFLECTOR PLATE (APPROACH OR TRAILING)	A36
1	8" X 4" X 5/16" RAIL @ 9'-4" W/ 34'-6" RAD.	A500 Gr. B
1	4" X 4" X 1/4" RAIL @ 9'-4" W/ 34'-6" RAD.	A500 Gr. B
1	8" X 4" X 1/4" END CAP	A36
1	4" X 4" X 1/4" END CAP	A36
1	7" x 3" x 3/8" SPLICE TUBE @ 1' 11 3/4"	A500 Gr. B
1	3" x 3" x 5/16" SPLICE TUBE @ 1' 11 3/4"	A500 Gr. B
8	Ø 3/4" SCH. 40 PIPE @ 1/2"	A53
8	Ø 5/8" X 1 3/4" HEX BOLTS	A307
8	Ø 5/8" FLAT WASHER, HARDENED, TYPE A, PLAIN WIDE	A307
7	Ø 3/4" X 6" CARRIAGE BOLT, & NUT	A307
1	Ø 3/4" X 2" CARRIAGE BOLT, & NUT	A307
19	Ø 5/8" X 1'-6" BUTTON HEAD POST BOLT, PLATE WASHER, F.W. & NUT	A307, A36, F844 or 307, & A563
32	Ø 5/8" X 1 1/4" BUTTON HEAD SPLICE BOLT, RECESSED NUT & F.W.	A307
19	3/16" SPEC. PLATE WASHER @ 1 3/4" X 3"	A36
16	Ø 3/4" X 6" ROUND HEAD BOLT, F.W., LOCK W. & NUT	A449, F436, ASME B18.21.1, & A563
10	6 X 8" WOOD POST @ 7'-0"	TIMBER
9	6 X 8" WOOD BLOCKOUTS @ 1'-6"	TIMBER
1	6 X 8" WOOD BLOCKOUTS @ 1'-2"	TIMBER
10	Ø 7/8" POST BOLT @ 18", F.W. & NUT	F568, F436, A563

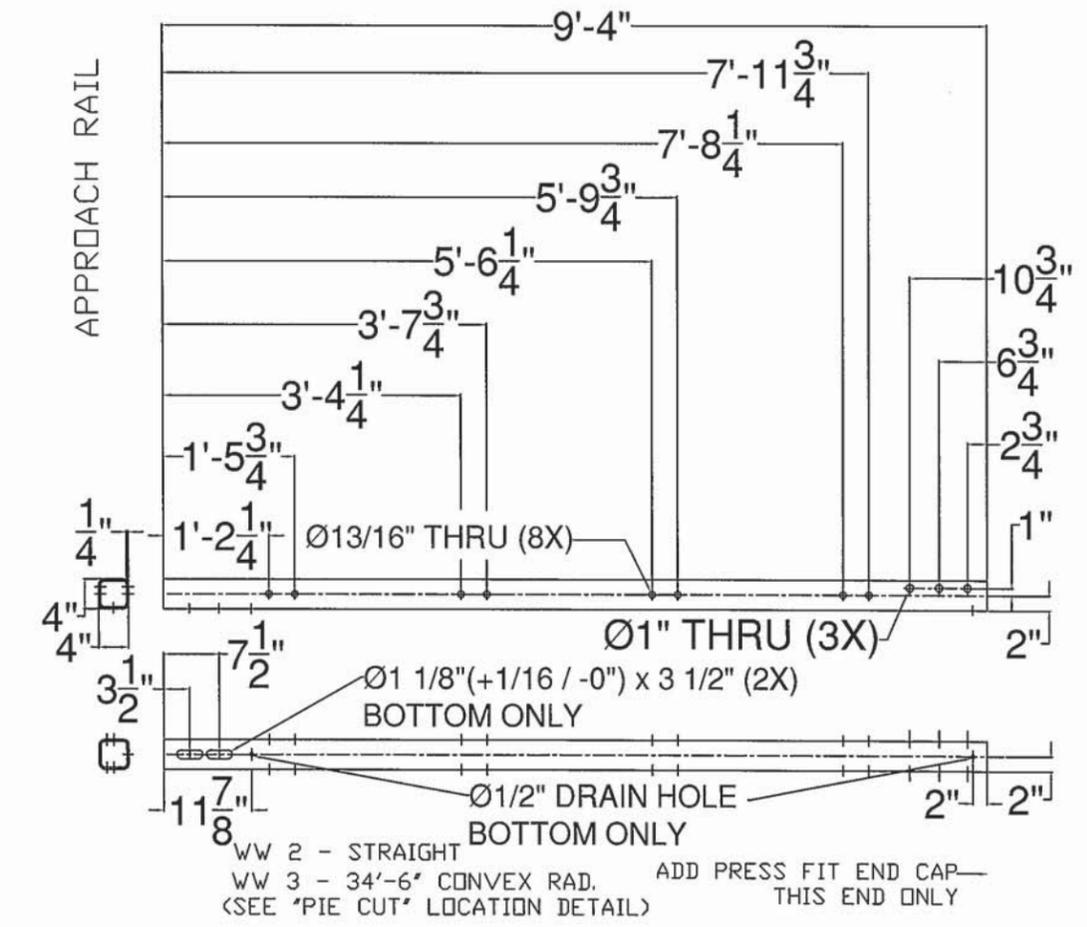
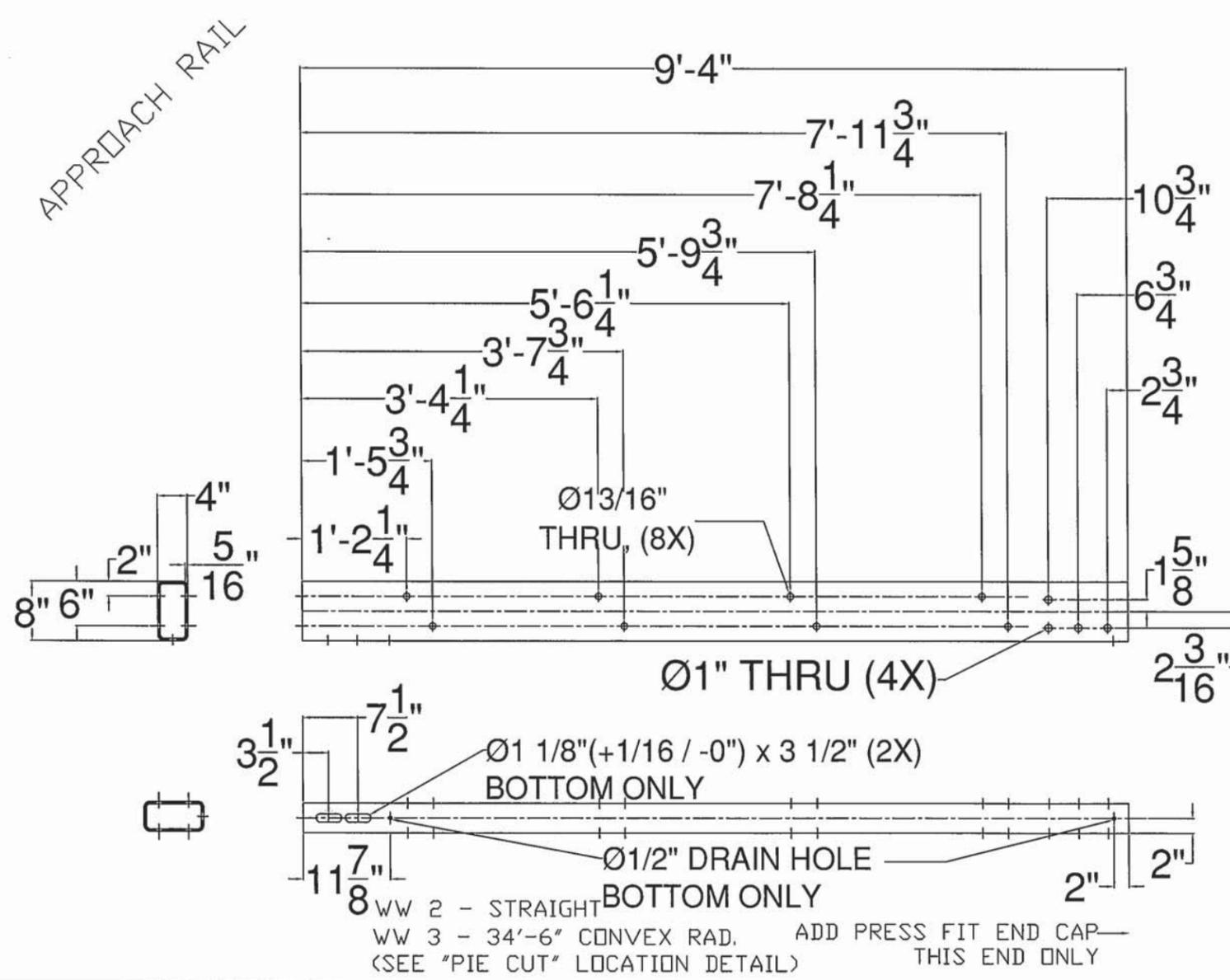
SHOP DRAWING REVIEW

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VHB Job Number: 57517
 Reviewed By: B Masse
 Date: 6-11-14



ITEM #: 621.72 SHEET 3 OF 4

APPROVED BY: _____

2 RAIL BRIDGE RAIL TO GUARDRAIL TRANSITION
 ROCHESTER, BR# 0182 (18) VT RTE 73 (MAJOR COLLECTOR), BRIDGE NO: 19, OVER WHITE RIVER
 TOWN OF ROCHESTER, COUNTY OF WINDSOR, VT

R NO.	DATE	DESCRIPTION	BY	R NO.	DATE	DESCRIPTION	BY
E 1	6/6/14	REVISED PER 5/30/14 MARK-UP	E.P.	E			
V 2	6/10/14	REVISED PER 6/9/14 MARK-UP	E.P.	V			

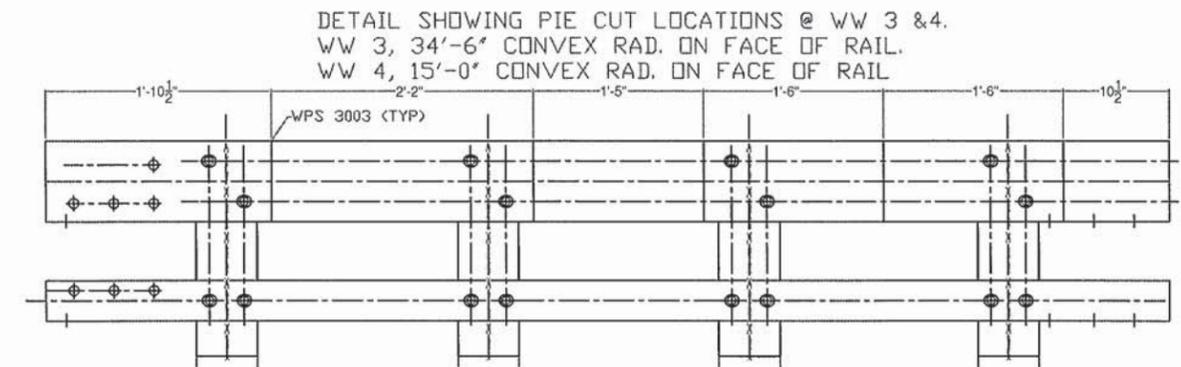
ELDERLEE, INC.
 OAKS CORNERS, NEW YORK 14518
 E-Mail: dlong@elderlee.com
 Tel: 315-789-6670 Fax: 315-789-6615

CERTIFIED FABRICATOR

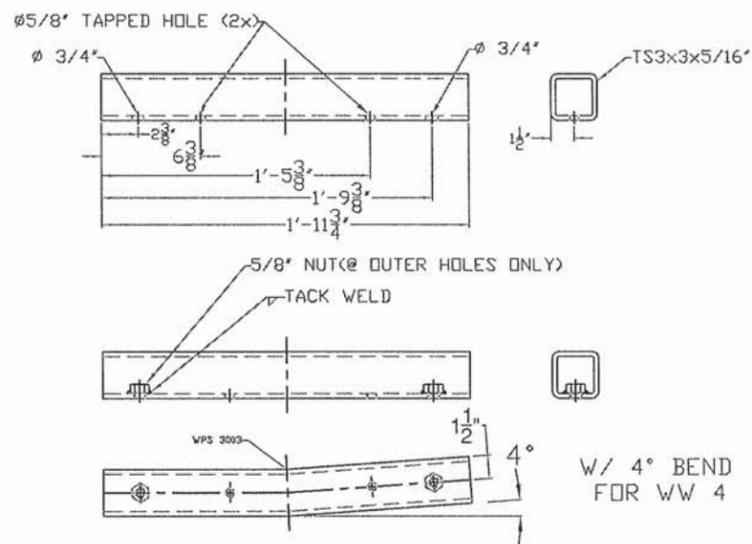
DRAWN	E.P.	5/16/14
CHECKED	D.L.	5/16/14
APPROVED		
SCALE	SCHEMATIC	
DRAWING NO. F.R.L. ROCHESTER, TR19		

BILL OF MATERIAL (621.72) WW-4

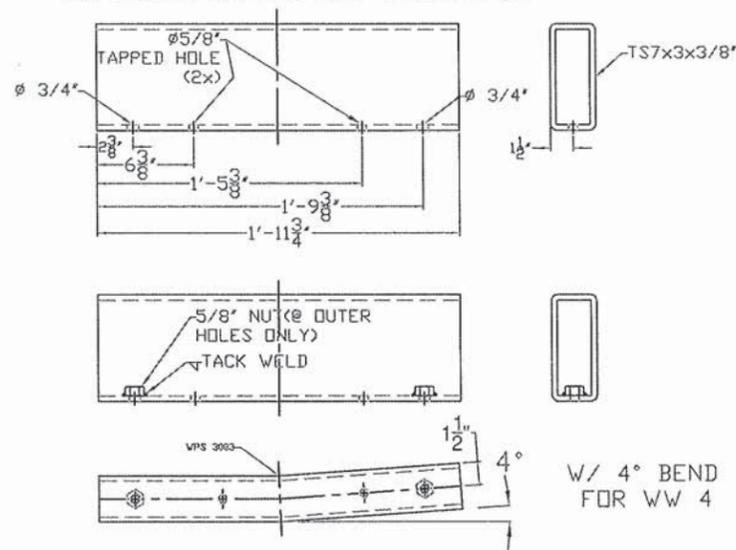
QTY	DESCRIPTION	ASTM DESIGNATION
1	THRIE BEAM TERMINAL CONNECTION (10 Ga)	AASHTO M180
1	THRIE BEAM TRANSITION @ 7'-3 1/2' (10 Ga)	AASHTO M180
1	CONNECTION PLATE	M270 Gr. 36
2	12' 6" THRIE BEAM (12Ga)	AASHTO M180
4	W6X25 POST @ 8'-0" (PUNCHING VARIES - POST 1-4)	A572 Gr. 50
1	DEFLECTOR PLATE (APPROACH OR TRAILING)	A36
1	8" X 4" X 5/16" RAIL @ 9'-4" W/ 15'-0" RAD.	A500 Gr. B
1	4" X 4" X 1/4" RAIL @ 9'-4" W/ 15'-0" RAD.	A500 Gr. B
1	8" X 4" X 1/4" END CAP	A36
1	4" X 4" X 1/4" END CAP	A36
1	7" X 3" X 3/8" SPLICE TUBE @ 1' 11 3/4"	A500 Gr. B
1	3" X 3" X 5/16" SPLICE TUBE @ 1' 11 3/4"	A500 Gr. B
8	3/4" SCH. 40 PIPE @ 1/2"	A53
8	5/8" X 1 3/4" HEX BOLTS	A307
8	5/8" FLAT WASHER, HARDENED, TYPE A, PLAIN WIDE	A307
7	3/4" X 6" CARRIAGE BOLT, & NUT	A307
1	3/4" X 2" CARRIAGE BOLT, & NUT	A307
19	5/8" X 1'-6" BUTTON HEAD POST BOLT, PLATE WASHER, F.W. & NUT	A307, A36, F844 or 307, & A563
36	5/8" X 1 1/4" BUTTON HEAD SPLICE BOLT, RECESSED NUT & F.W.	A307
19	3/16" SPEC. PLATE WASHER @ 1 3/4" X 3"	A36
16	3/4" X 6" ROUND HEAD BOLT, F.W., LOCK W. & NUT	A449, F436, ASME B18.21.1, & A563
10	6 X 8" WOOD POST @ 7'-0"	TIMBER
9	6 X 8" WOOD BLOCKOUTS @ 1'-6"	TIMBER
1	6 X 8" WOOD BLOCKOUTS @ 1'-2"	TIMBER
10	7/8" POST BOLT @ 18", F.W. & NUT	F568, F436, A563



EXPANSION SPLICE FOR: TS4x4x1/4"



EXPANSION SPLICE FOR: TS8x4x5/16"



Vermont Agency of Transportation

RECEIVED

ON: **June 10, 2014**

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CONFORMANCE

BY: Jennifer Fitch DATE: 06/11/2014

SHOP DRAWING REVIEW

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VHB Job Number: 57517
Reviewed By: B Masse
Date: 6-11-14

ITEM #: 621.72

SHEET 4 OF 4

APPROVED BY:

2 RAIL BRIDGE RAIL TO GUARDRAIL TRANSITION

ROCHESTER, BR# 0162 (18) VT RTE 73 (MAJOR COLLECTOR), BRIDGE NO : 19, OVER WHITE RIVER
TOWN OF ROCHESTER, COUNTY OF WINDSOR, VT

R NO.	DATE	DESCRIPTION	BY	R NO.	DATE	DESCRIPTION	BY
E 1	6/6/14	REVISED PER 5/30/14 MARK-UP	E.P. E				
V 2	6/10/14	REVISED PER 6/9/14 MARK-UP	E.P. V				

ELDERLEE, INC.
OAKS CORNERS, NEW YORK 14518
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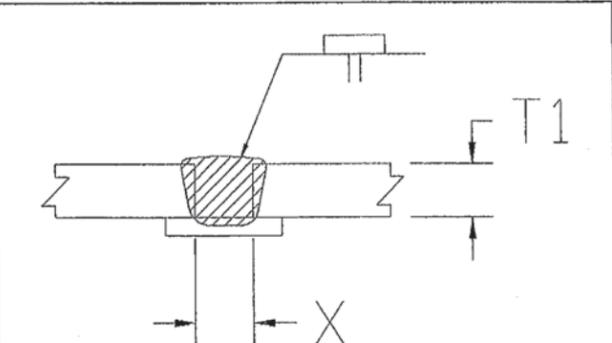
DRAWN	E.P.	5/16/14
CHECKED	D.L.	5/16/14
APPROVED		
SCALE	SCHEMATIC	
DRAWING NO. F.R.L. ROCHESTER, TR19		

WELDING PROCEDURE SPECIFICATION

PQR ELDERLEE#3

Material Specification	A500 GR B
Welding Process	FCAW
Manual or Machine	SEMAUTOMATIC
Position of Welding	FLAT / HORIZONTAL
Filler Metal Specification	A5.20 - 95
Filler Metal Classification	E81T-Ni1C-JH4
Flux	N/A
Shielding Gas	CO 2 Dew Point -40DEG F Flow Rate 50CFH
Single or Multiple Pass	SINGLE
Single or Multiple Arc	SINGLE
Welding Current	DC
Polarity	REVERSE ELECTRODE POSITIVE
Welding Progression	STRINGER
Root Treatment	PER D1.5
Preheat and Interpass Temperature	PER D1.5
Postheat Temperature	NONE
Heat Input	Min _____ Max _____

WELDING PROCEDURE

Pass no.	Electrode size	Welding Current		Travel speed	Joint detail
		Amperes	Volts		
	1/16	310	25	11	 <p>SEQUENCE OF WELD PASSES SHALL BE SHOWN DIAGRAMMATICALLY</p>
Variable	LIMITS	341	27	12	
		TO 269	TO 23	TO 10	

This procedure may vary due to fabrication sequence, fit-up, pass size, etc., within the limitation of variables given in Section 5.

Procedure No. 3003
Revision No. _____

Contractor Elderlee, Inc.
Authorized By RANDY SCOTT
Date 5/8/2014

Vermont Agency of Transportation

RECEIVED

ON: **June 10, 2014**

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CONFORMANCE

BY: Jennifer Fitch DATE: 06/11/2014

SHOP DRAWING REVIEW	
<input checked="" type="checkbox"/> REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED, BUT ONLY FOR CONFORMANCE TO THE DESIGN CONCEPT OF THE WORK, AND SUBJECT TO FURTHER LIMITATIONS AND REQUIREMENTS CONTAINED IN THE CONSTRUCTION CONTRACT DOCUMENTS.	
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	Job Number: <u>57517</u> Reviewed By: <u>B. Masse</u> Date: <u>6-11-14</u>

WELDING PROCEDURE SPECIFICATION

PQR ELDERLEE #3

Material Specification	ASTM-A500-A53-GRADE B TO A36		
Welding Process	FCAW-G		
Manual or Machine	SEMAUTOMATIC		
Position of Welding	1G		
Filler Metal Specification	A5.29		
Filler Metal Classification	E81T1-Ni1C-JH4		
Flux	N/A		
Shielding Gas	CO 2	Dew Point	-40DEG F FLOW RATE 50 CFH
Single or Multiple Pass	SINGLE		
Single or Multiple Arc	SINGLE		
Welding Current	DC		
Polarity	REVERSE ELECTRODE POSITIVE		
Welding Progression	STRINGER		
Root Treatment	PER D1.5		
Preheat and Interpass Temperature	PER. D1.5		
Postheat Temperature	NONE		
Heat Input	Min		Max

WELDING PROCEDURE

Pass no.	Electrode size	Welding Current		Travel speed	Joint detail
		Amperes	Volts		
1	1/16	310	25	11	
Variable	LIMITS	341	27	12	
		TO 269	TO 23	TO 10	

This procedure may vary due to fabrication sequence, fit-up, pass size, etc., within the limitation of variables given in Section 5.

Procedure No. <u>3012</u>	Contractor <u>Elderlee, Inc.</u>
Revision No. _____	Authorized By <u>RANDY SCOTT</u>
	Date <u>3/20/2014</u>

Vermont Agency of Transportation

RECEIVED

ON: **June 10, 2014**

and Checked for
CONFORMANCE

BY: **Jennifer Fitch** DATE: **06/11/2014**

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<input checked="" type="checkbox"/> REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED, BUT ONLY FOR CONFORMANCE TO THE DESIGN CONCEPT OF THE WORK, AND SUBJECT TO FURTHER LIMITATIONS AND REQUIREMENTS CONTAINED IN THE CONSTRUCTION CONTRACT DOCUMENTS.	
<input type="checkbox"/> REJECTED <input type="checkbox"/> REVISE AND RESUBMIT <input type="checkbox"/> FURNISH AS CORRECTED	
CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR REVIEW OF GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR: CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATING HIS WORK WITH THAT OF ALL OTHER TRADES; AND PERFORMING HIS WORK IN A SAFE AND SATISFACTORY MANNER.	
	Job Number: <u>57517</u> Reviewed By: <u>B Masse</u> Date: <u>6-11-14</u>