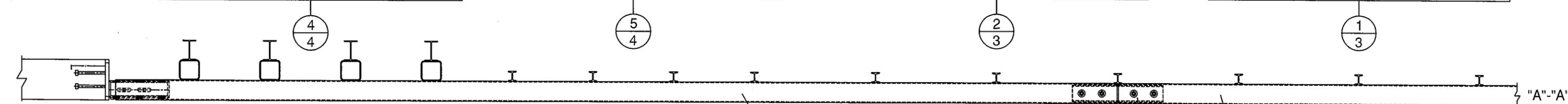
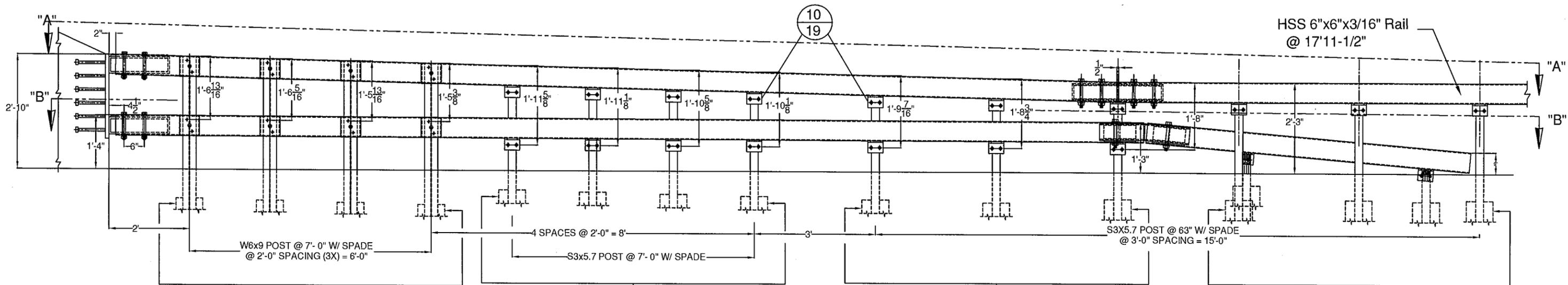
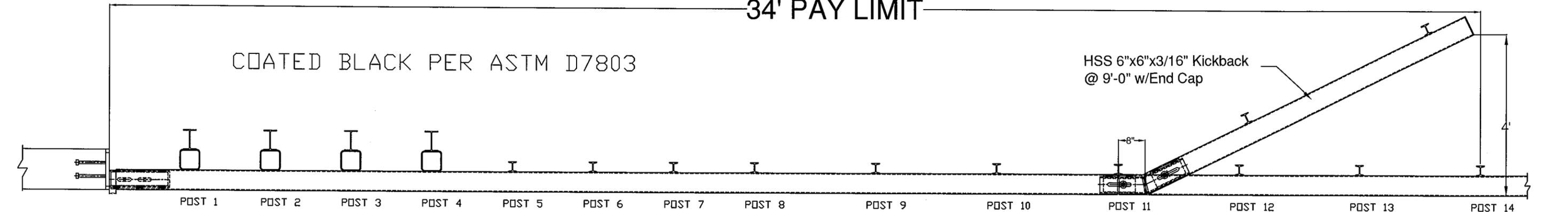


34' PAY LIMIT

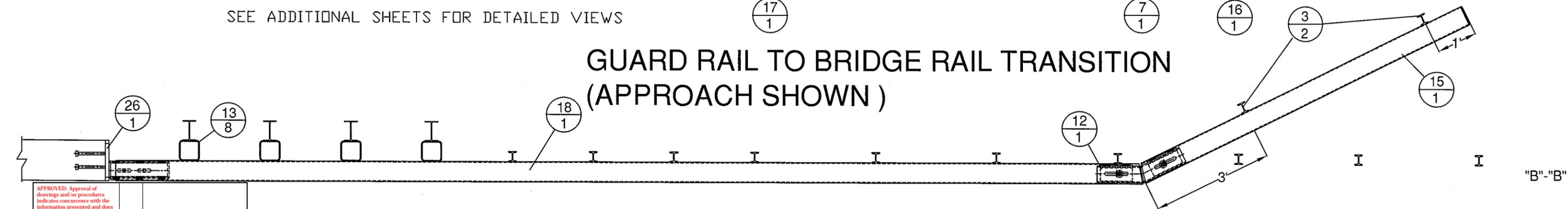
COATED BLACK PER ASTM D7803

HSS 6"x6"x3/16" Kickback
@ 9'-0" w/End Cap



SEE ADDITIONAL SHEETS FOR DETAILED VIEWS

GUARD RAIL TO BRIDGE RAIL TRANSITION
(APPROACH 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.

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

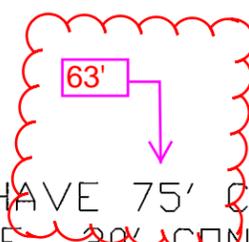
Date: 3/10/2015

By: Michael J. Chenette

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WW 3 & 4 - STRAIGHT
 WW 1 - ITEMS 16, 17, & 18 TO HAVE 75' CONVEX RADIUS
 WW 2 - ITEMS 17, & 18 TO HAVE 20' CONVEX RADIUS



ITEM #: 900.620

STRUCTURAL STEEL TO COMPLY W/ ASTM A6

TOLERANCE UNLESS OTHERWISE NOTED:
 FRACTIONS = ± 1/16"
 ANGLES = ± 1/2"
 DIAMETERS = ± 1/32"

Galvanized 2-Rail Box Beam Guardrail Approach Section

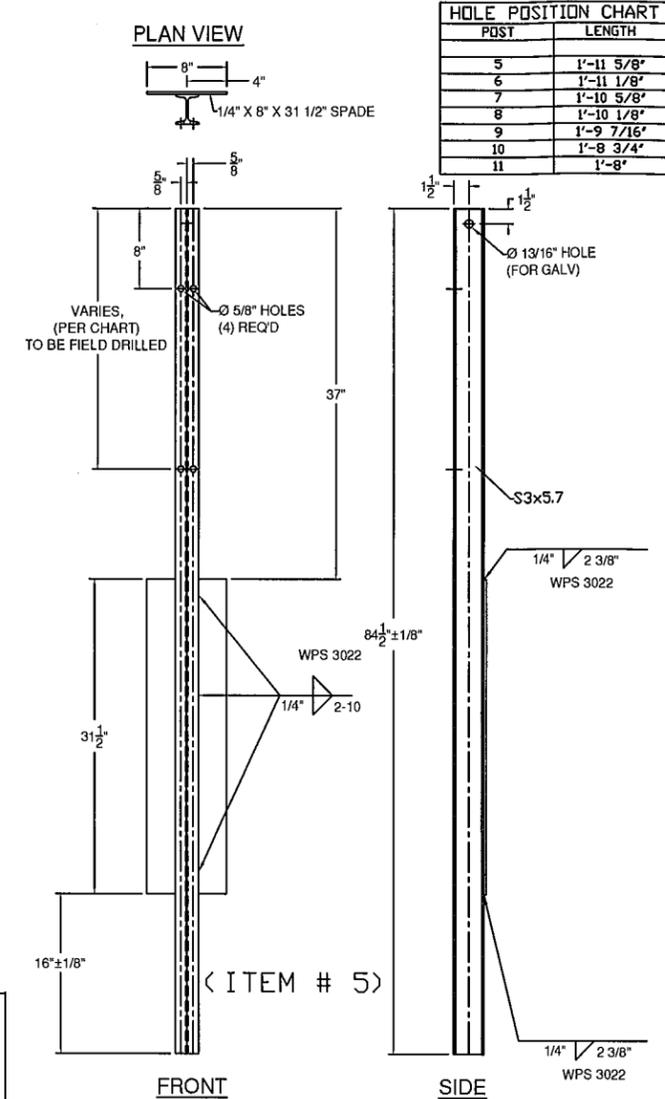
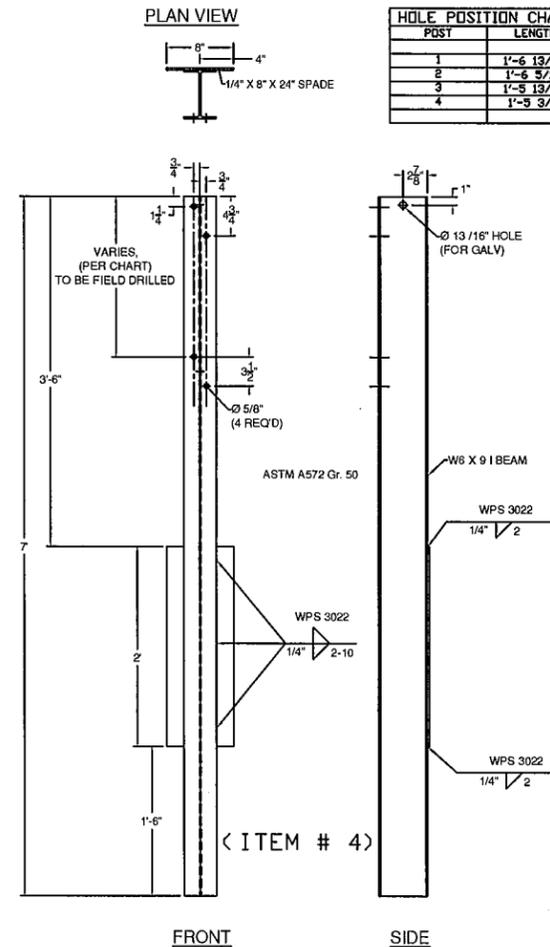
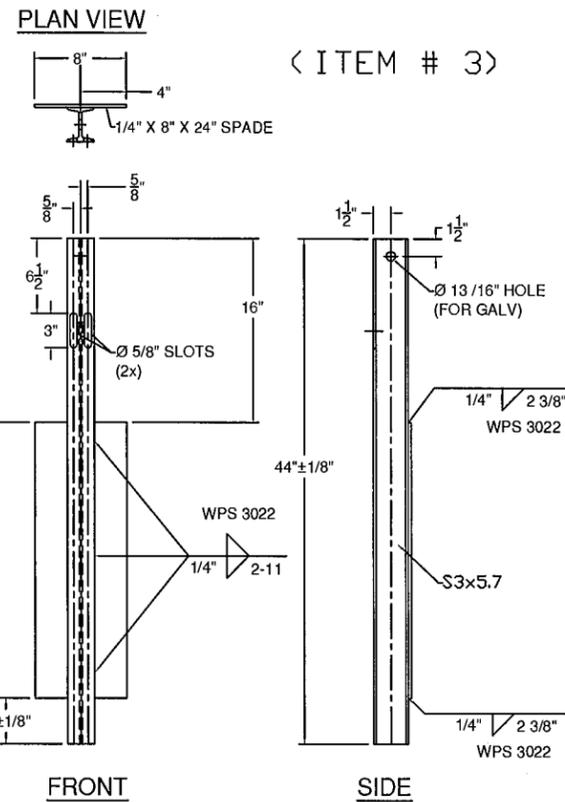
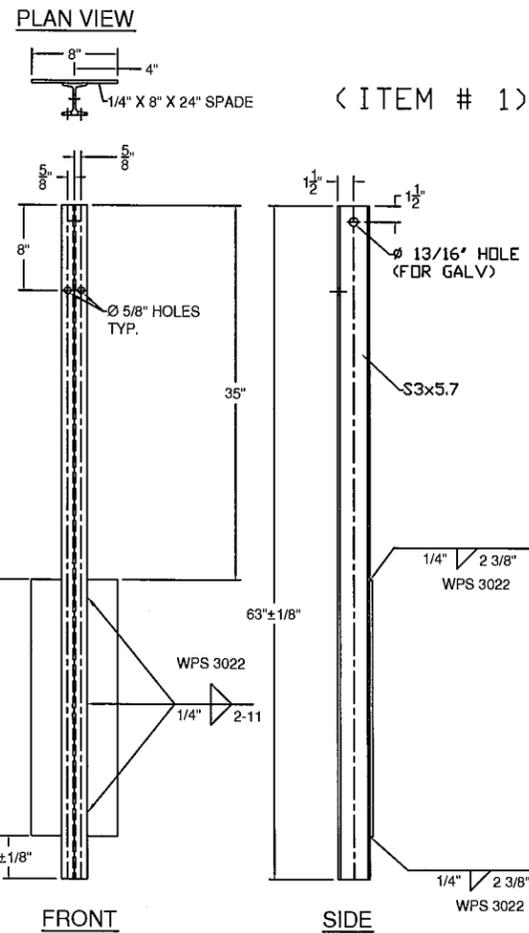
EM14-202, CHICKEN FARM ROAD (T.H.16) CLASS 3 LOCAL ROAD, BRIDGE NO : 36
 PROJECT: 618 CORINTH BRO 1447(29), TOWN OF CORINTH, ORANGE COUNTY, VT

R NO.	DATE	DESCRIPTION	BY	R NO.	DATE	DESCRIPTION	BY
1	3/5/15	REVISED PER 3/4/15 MARK-UP	E.P.				

DRAWN	E.P.	12/15/14
CHECKED	D.L.	12/16/14
APPROVED	M.V.	
SCALE	SCHEMATIC	
DRAWING NO. FR L - CORINTH-T		

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

SHEET 1 OF 5



GENERAL NOTES:

- 1) ALL RAILING IS TO BE FABRICATED AND ERECTED ACCORDING TO SECTION 525 OF THE STANDARD SPECIFICATIONS.
- 2) BOLTS SHALL BE TORQUED SNUG TIGHT (APPROXIMATELY 100 FT-LB).
- 3) PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE ADJOINING SURFACES OF THE BOX BEAM RAILS, SPLICE TUBES AND FILL PLATES.
- 4) BOX BEAM TUBE AND STEEL POST MATERIALS, DIMENSION SIZES AND NOTES SHALL BE THE SAME AS THOSE OF THE BRIDGE RAIL, UNLESS OTHERWISE NOTED.
- 5) ANY BENDING OF RAIL SHALL BE DONE AT THE FABRICATION PLANT. RADII GREATER THAN 16' TO BE CURVED ON A TUBE BENDING MACHINE, RADII LESS THAN 16' TO BE "PIE CUT" AND WELDED. CURVED RAILING WILL HAVE AN 18" LENGTH ON EACH END STRAIGHT TO ACCOMADATE SPLICES.
- 6) ALL STEEL COMPONENTS SHALL BE COATED BLACK IN ACCORDANCE WITH ASTM D7803 FOLLOWING GALVANIZING.

BILL OF MATERIALS, EACH CORNER				
ITEM #	QTY.	COMPONENT #	DESCRIPTION	MATERIAL (ASTM)
1	3	0013.57021	3" I-POST, PUNCH 8" W/SPD @ 63" LG	ASTM A572 Gr. 50
2	3	0013.57025	3" I-POST W/SPD @ 63", PUNCH 8", & 20" & HOLES @ VARIOUS	ASTM A572 Gr. 50
3	2	0013.57060	3" I-END POST W/SPD @ 3'-8" LG	ASTM A572 Gr. 50
4	4	-	W6X9 POST @ 7' W/SPD & 5/8" HOLES @ VARIOUS	ASTM A572 Gr. 50
5	4	-	3" I-POST, PUNCH 8" & VARIOUS, W/8X32" SPADE @ 7'	ASTM A572 Gr. 50
7	1	0033.00640	HSS 5X5 TUBE SPLICE @ 27" LG W/ 1/4" SHIMS	A500 Gr. B / A572 Gr 50
10	19	0054.00050	REG BB SHELF ANGLES @ 4-1/2"	ASTM A36
12	1	-	HSS 5X5 DBL BEND TUBE SPL @ 27" LG	A500 Gr. B / A572 Gr 50
13	8	-	6X6" TRANS. TUBE B/D @ 6" LG	A500 Gr. B
15	1	0054.09000	6X6" BB @ 9'-0" KICKBACK, W/ CAP	A500 Gr. B / A36
*16	1	0054.18000	6X6" BB @ 17'-11 1/2", DRILL 3" CC	A500 Gr. B
*17	1	-	6X6" BB TOP TRANS @ 24'-9 3/4" LG W/EXP END	A500 Gr. B
*18	1	-	6X6" BB BTM TRANS @ 25'-5 1/2" LG W/EXP END	A500 Gr. B
19	18	0080.03355	3/8" X 7 1/2" BOLT, NUT, & 2 FW	A307, A563, F436
20	19	0080.04100	1/2" x 1-1/2" BOLT, NUT, & FW	A307, A563, F436
21	16	0080.04120	1/2" x 1-1/2" BOLT, NUT, 2 FW & LW	A307, A563, F436
23	10	0080.06340	3/4" X 7-1/2" BOLT, NUT, 2 FW	A325, A563, F436
24	8	0080.06370	3/4" X 8" CARR BOLT, NUT, FW & LW	A307, A563, F436

* W1 - ITEMS 16, 17, & 18 - FACE OF RAIL TO HAVE 'TBD' CONVEX RADIUS
 * W2 - ITEMS 16, 17, & 18 - FACE OF RAIL TO HAVE 'TBD' CONVEX RADIUS

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

APPROVED AS NOTED

REVISIONS:

REVISION	DATE	DESCRIPTION
1	3/10/2015	DATE

By: Michael J. Chenette

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HARDWARE NOTES	
ITEM #	FUNCTION
19	BOLT RAIL TO SHELF ANGLE (ITEM #10)
20	BOLT SHELF ANGLE (ITEM # 10) TO POST
21	BOLT BLOCK-OUTS (ITEM # 13) TO HEAVY POST (ITEM # 4)
23	SPLICE TUBING (ITEM #'S 7 & 12), & (4) PER PARAPET WALL CONNECTION
24	BOLT RAIL (ITEMS #'S 17, & 18 TO BLOCK-OUTS (ITEM # 13)

ITEM #: 900.620

STRUCTURAL STEEL TO COMPLY W/ ASTM A6

TOLERANCE UNLESS OTHERWISE NOTED:
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 ANGLES = ± 1/2"
 DIAMETERS = ± 1/32"

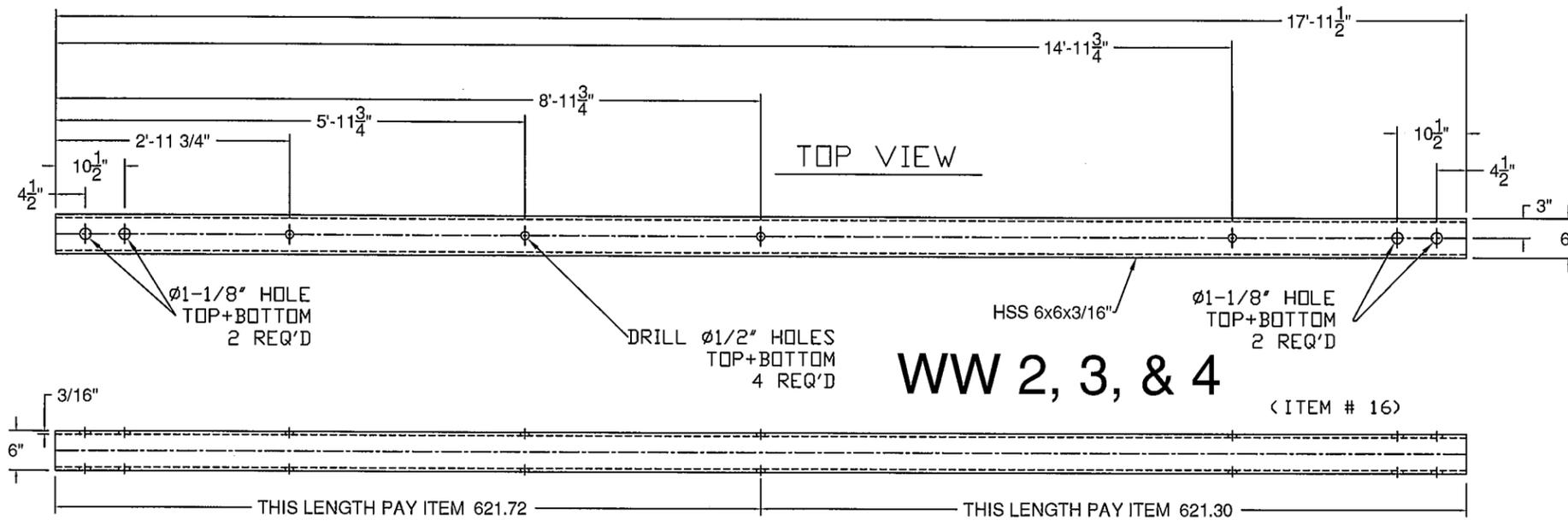
Galvanized 2-Rail Box Beam Guardrail Approach Section

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 PROJECT: 618 CORINTH BRO 1447(29), TOWN OF CORINTH, ORANGE COUNTY, VT

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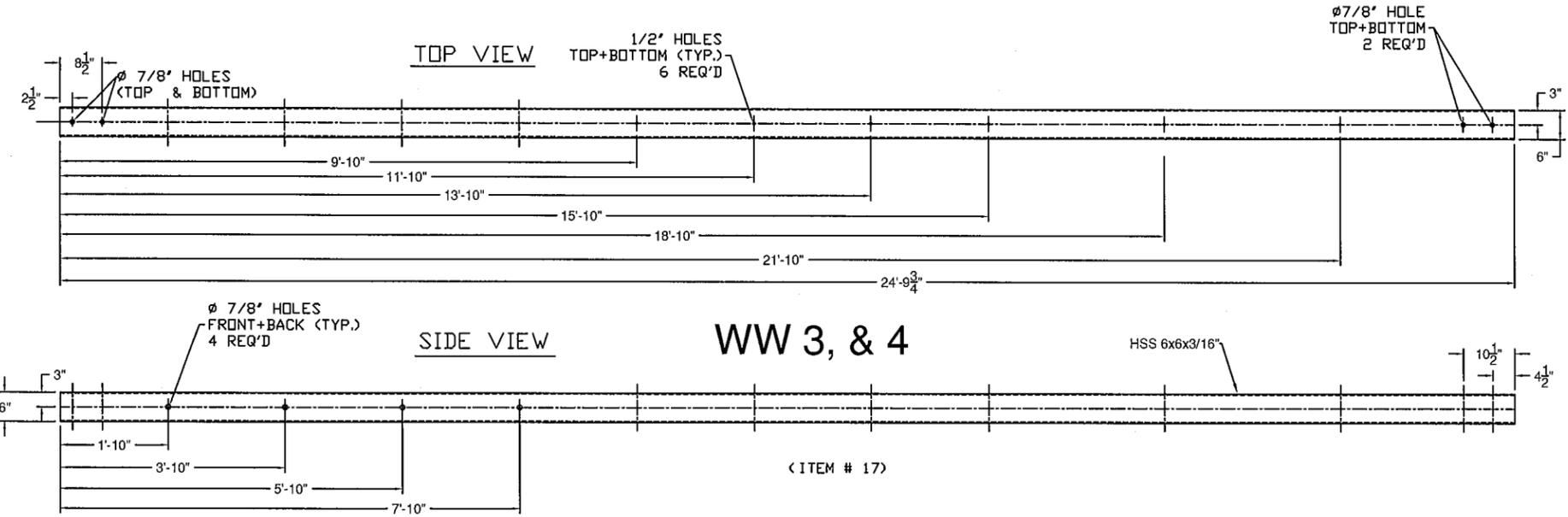
ELDERLEE, INC.
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DRAWN	E.P.	12/15/14
CHECKED	D.L.	12/16/14
APPROVED	M.V.	
SCALE	SCHEMATIC	
DRAWING NO.	FR L - CORINTH-T	



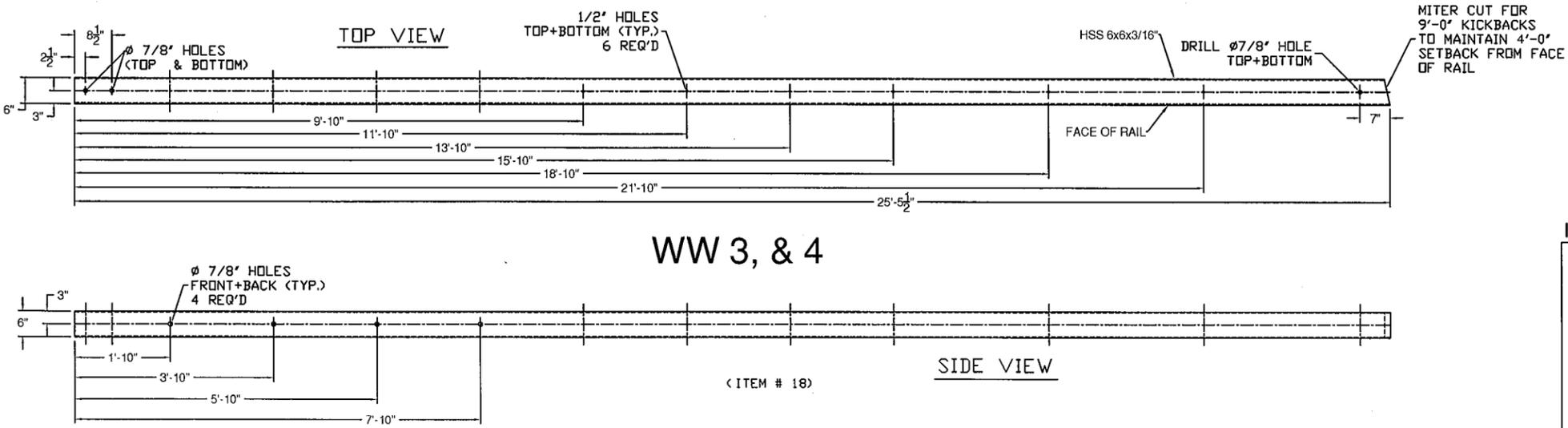
WW 2, 3, & 4

(ITEM # 16)



WW 3, & 4

(ITEM # 17)



WW 3, & 4

(ITEM # 18)

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements		
APPROVED AS NOTED	X	
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 3/10/2015		
By: Michael J. Chenette		
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ITEM #: 900.620

SHEET 4 OF 5

STRUCTURAL STEEL TO COMPLY W/ ASTM A6

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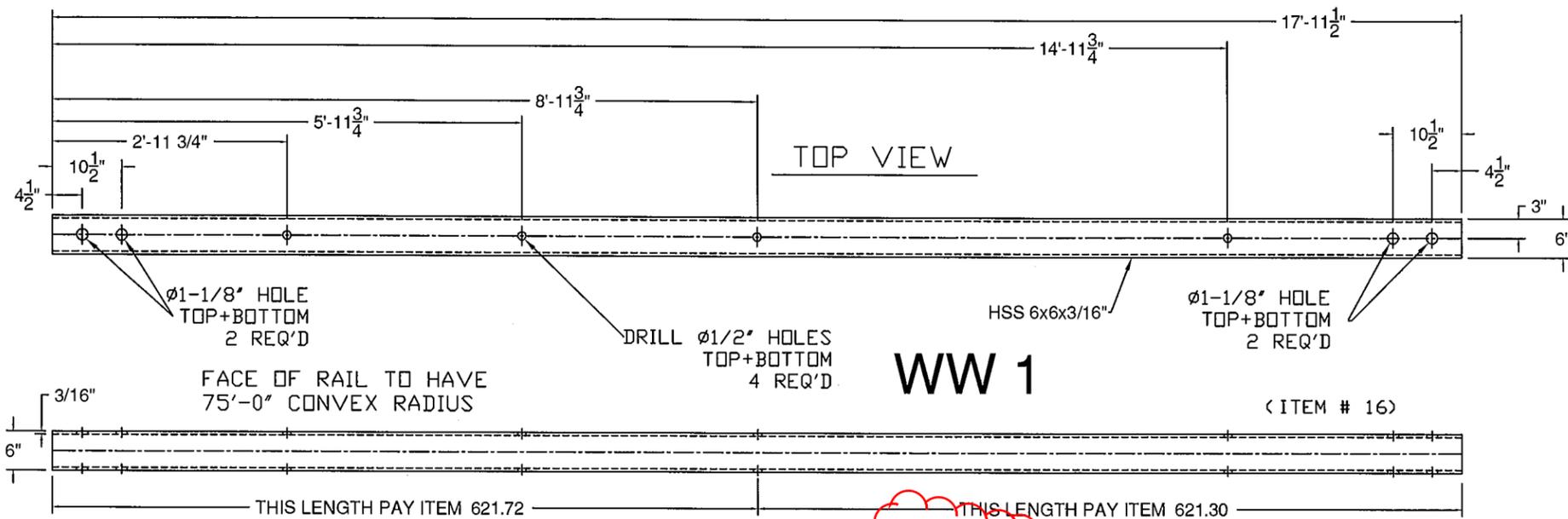
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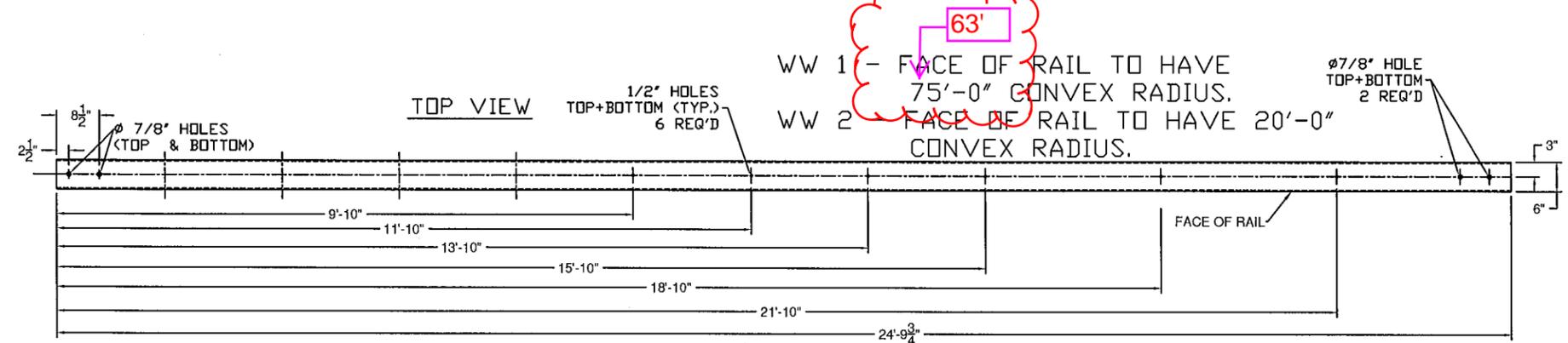
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DRAWN	E.P.	12/15/14
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APPROVED	M.V.	
SCALE	SCHEMATIC	
DRAWING NO. FRL - CORINTH-T		

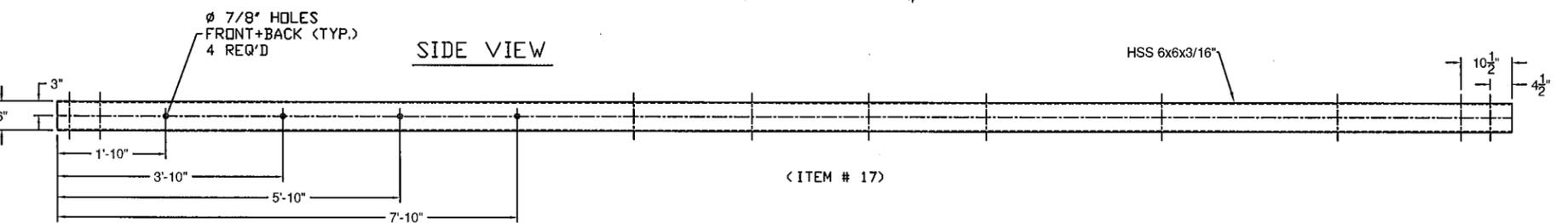


WW 1

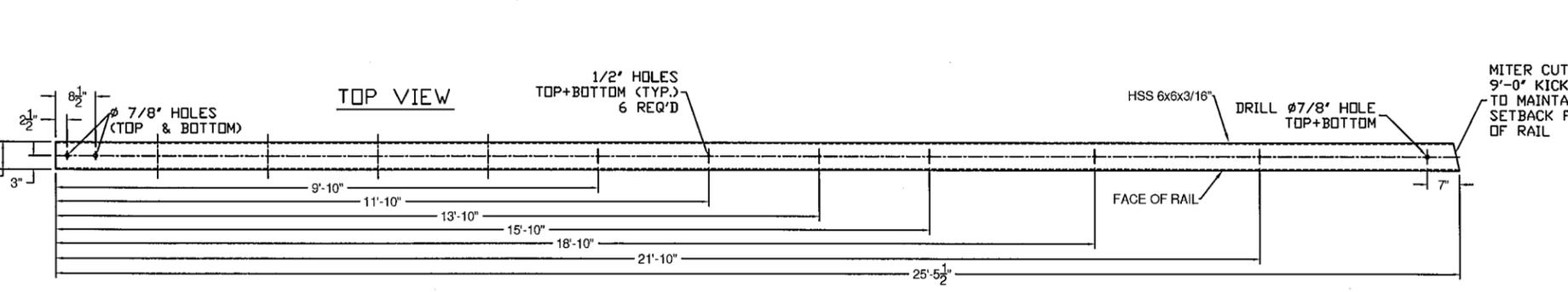
(ITEM # 16)



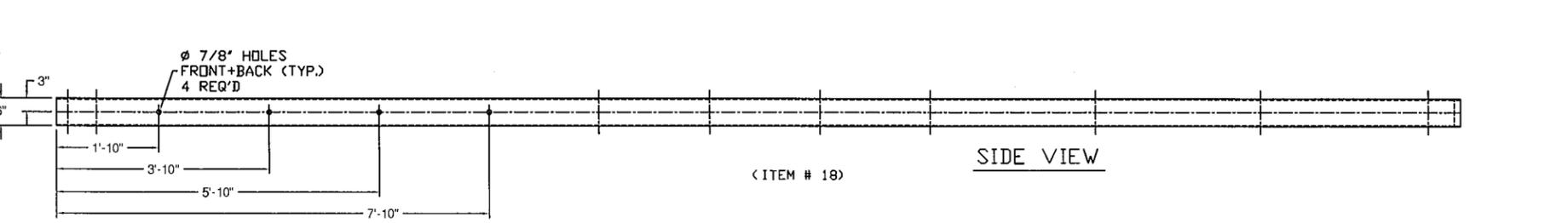
WW 1 - FACE OF RAIL TO HAVE 75'-0" CONVEX RADIUS.
 WW 2 - FACE OF RAIL TO HAVE 20'-0" CONVEX RADIUS.



(ITEM # 17)



(ITEM # 18)



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NOT REVIEWED		
Date: 3/10/2015		
By: Michael J. Chenette		
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ITEM #: 900.620

SHEET 5 OF 5

STRUCTURAL STEEL TO COMPLY W/ ASTM A6

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V				V					

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DRAWING NO. FRL - CORINTH-T		