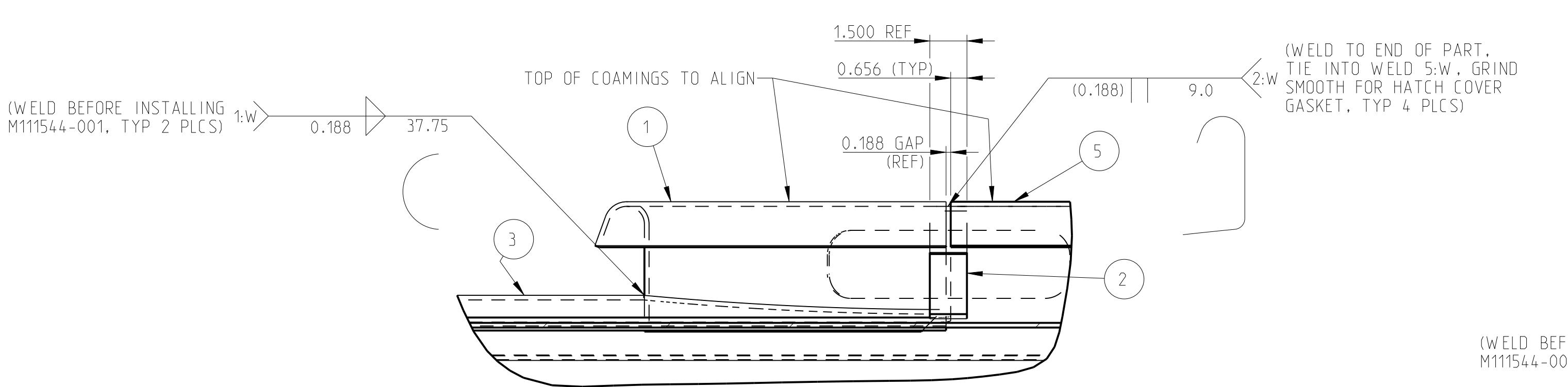
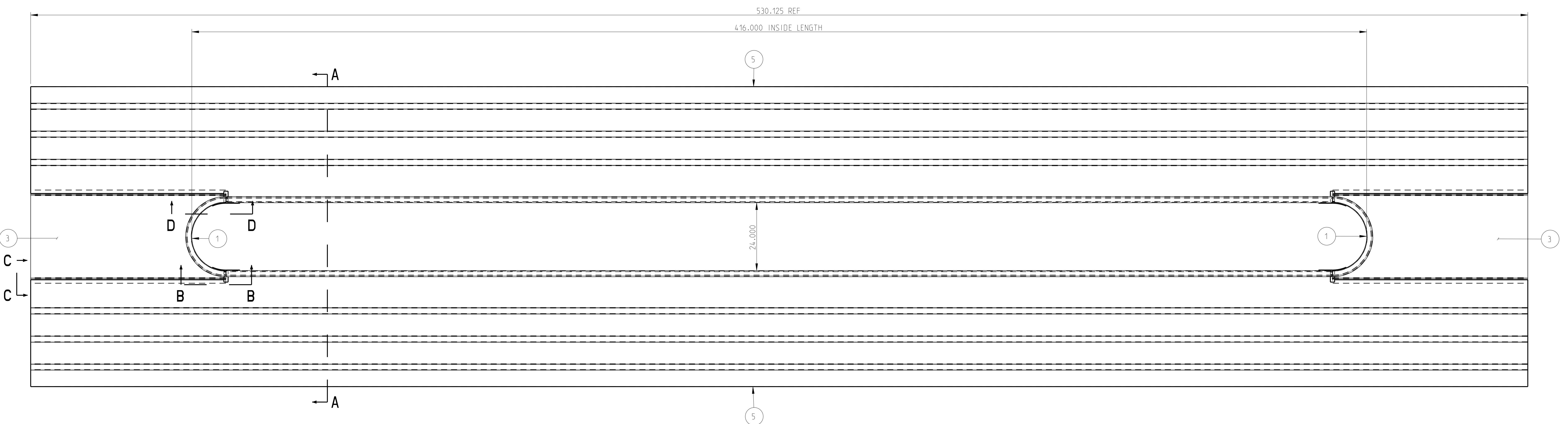
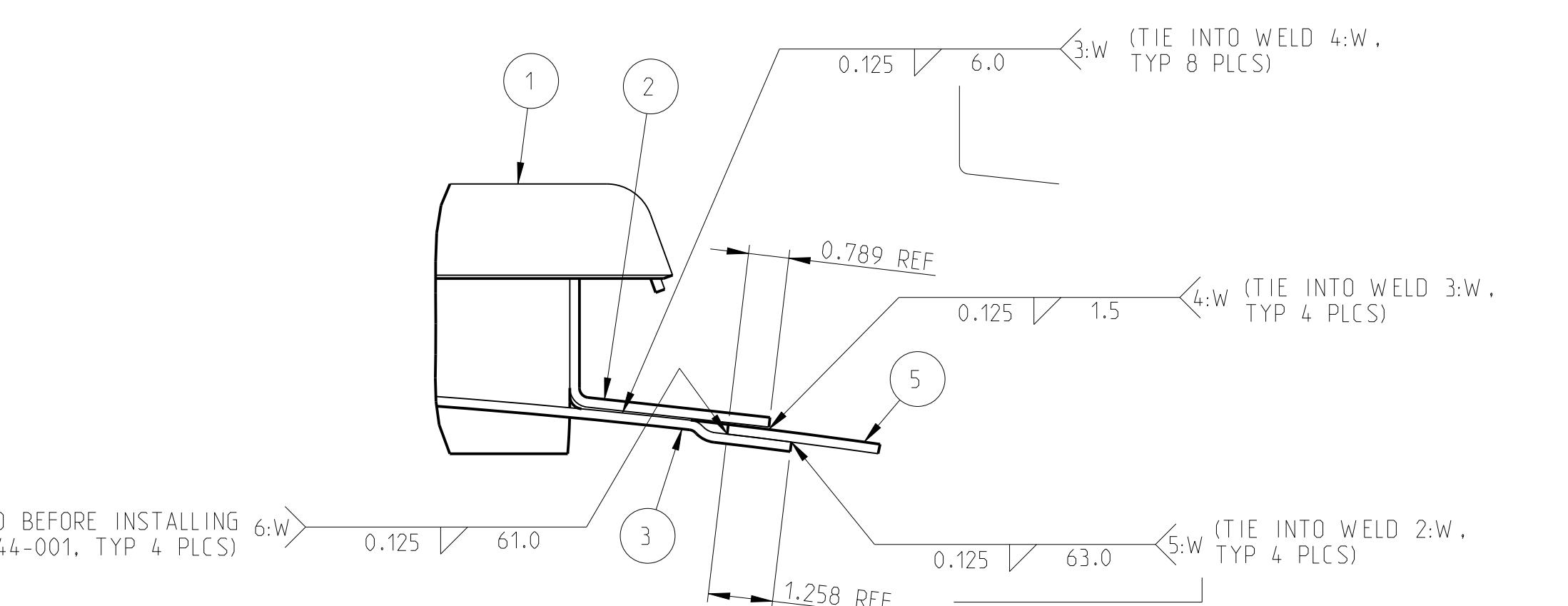
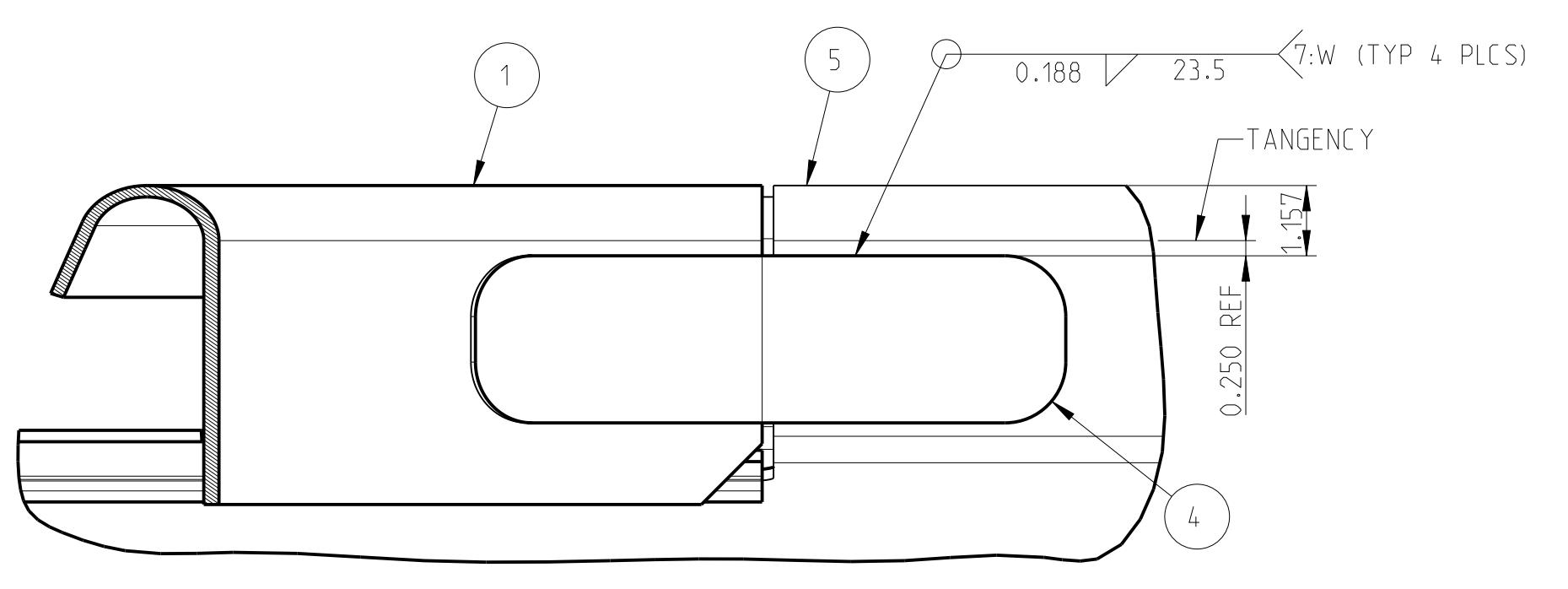
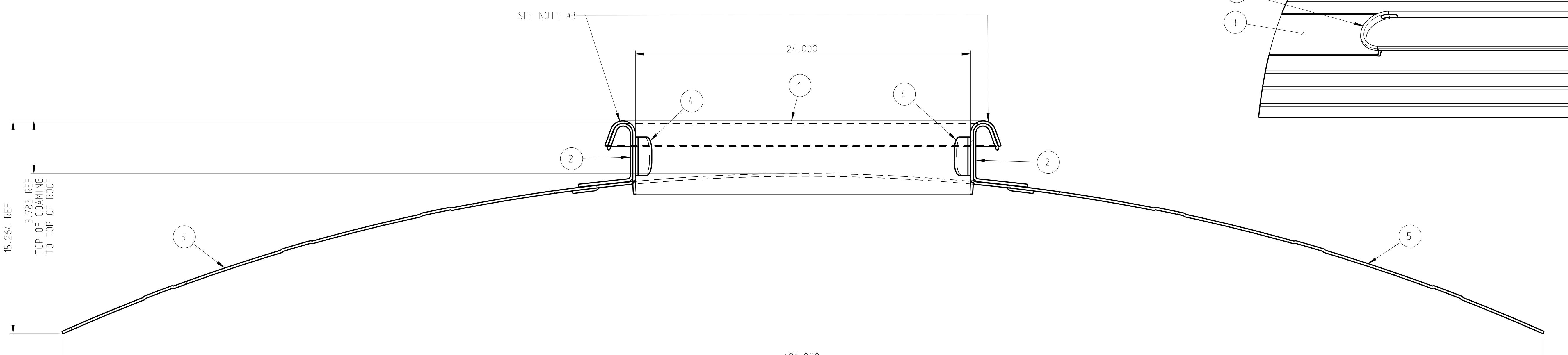


BILL OF MATERIAL

Item No.	Part No.	Description	Quantity
1	M110391-000	COAMING, ROOF	2
2	M11544-001	BACK UP, ROOF COAMING	4
3	M11580-005	ROOF SHEET, END, CRIMPED	2
4	M112854-000	REINFORCEMENT, ROOF	4
5	M113339-000	ROOF SHEET, ROOF	2

SECTION B-B
SCALE 0.250SECTION C-C
SCALE 0.375SECTION D-D
SCALE 0.375SECTION A-A
SCALE 0.250

PRELIMINARY

NOTE:

- ALL WELDING TO BE IN ACCORDANCE WITH RAILROAD WELDING SPECIFICATION AWS D15.1, LATEST REVISION, AND TO BE CLASSIFIED AS OTHER USE SPECIFICATION FOR PURPOSES APPROVED IN WRITING BY FREIGHTCAR AMERICA. DO NOT TO REPRODUCE OR MODIFY THIS DRAWING, IN WHOLE OR IN PART, WITHOUT THE WRITTEN PERMISSION OF THE DESIGNER OR MANUFACTURER OF ANY ITEM, PART, OBJECT OR APPARATUS THEREOF, EXCEPT UPON THE PRIOR WRITTEN PERMISSION OF THE DESIGNER OR MANUFACTURER.
- UNLESS OTHERWISE NOTED, ALL WELD LENGTHS SHOWN ARE MINIMUM LENGTHS. WELD TERMINATIONS FOR FILLET WELDS MUST HAVE A MINIMUM EDGE DISTANCE OF 0.25.
- FLATNESS DEVIATION SHOULD NOT EXCEED 1/8" TO 3/16" OVER 60" OR NO MORE THAN 1/2" OVER 120". HEIGHT DIFFERENCE FROM HINGE-SIDE TO LOCK-SIDE = 3/8" MAX.

Level	Date	Approved	Description
			REVISIONS
FreightCar America			
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Standard Tolerances (Unless Noted)			
Decimal Dimensions ± 0.063 Hole Diameters ± 0.031			
Diagonals 0.125 Max. Variation Angles $\pm 1^\circ$			
Radii will be thicknesses of material Tolerances are not accumulative			
Made By: JWB Date: 07-27-16 Ref Dwg. A11581-003			
Approved: - Do Not Scale Drawing Est. Wt: 2906.75 lbs			
ASSEMBLY, ROOF			
Sheet	Size	Page	Rev.
1 of 1	E	A113340-000	-