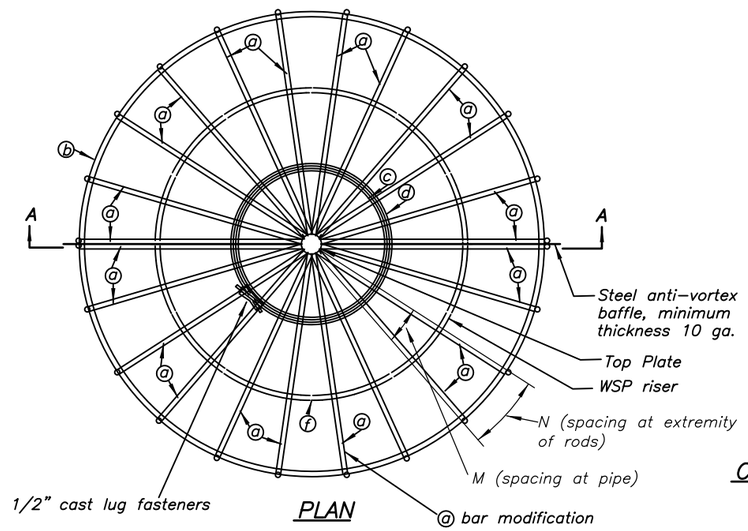
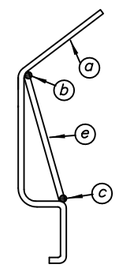
29N207

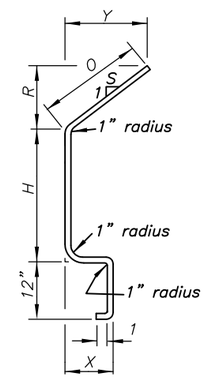
TABLE OF CAPACITIES, DIMENSIONS AND QUANTITIES																														
	(a) rods–3/4" dia.										Baffle plate				(b) rods–3/4" dia.			(c) rods–5/8" dia.			(d) rods–1/2: dia.			(e) rods–3/4" dia.			(f) rods–5/8" dia.			Top plate
Q	H	R	X	Y	S	O	Total	No.	N	M	L	P	F	V	No.	r	Length	No.	r	Length	No.	r	Length	No.	r	Length	No.	r	Length	Dia.
Weir flow(c.f.s.)	Inches	Inches	Inches	Inches		Inches	Length	Req'd	Inches	Inches		Inches	Inches	Inches	Req'd	Inches	Inches	Req'd	Inches	Inches	Req'd	Inches	Inches	Req'd	Inches	Inches	Req'd	Inches	Inches	Inches
54" DIAMETER RISER (MAX. BARREL = 42" DIA.)																														
186	30	29 13/16	36 1/4	59 1/2	2	66 3/4	12'–1 3/4"	24	18 1/16	7 3/4	11–4	58	50	25	6	62 1/8	195 7/8	2	27	85 1/2	2	28 3/8	186	4	str.	46	2	42 1/4	133 3/8	8



PLAN



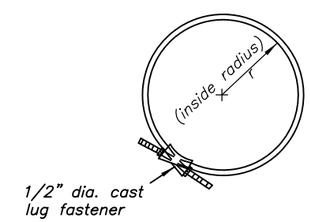
CONSTRUCTION DIAGRAM FOR (e) RODS



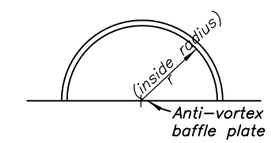
BENDING DIAGRAM FOR (a) RODS

FABRICATION NOTES:

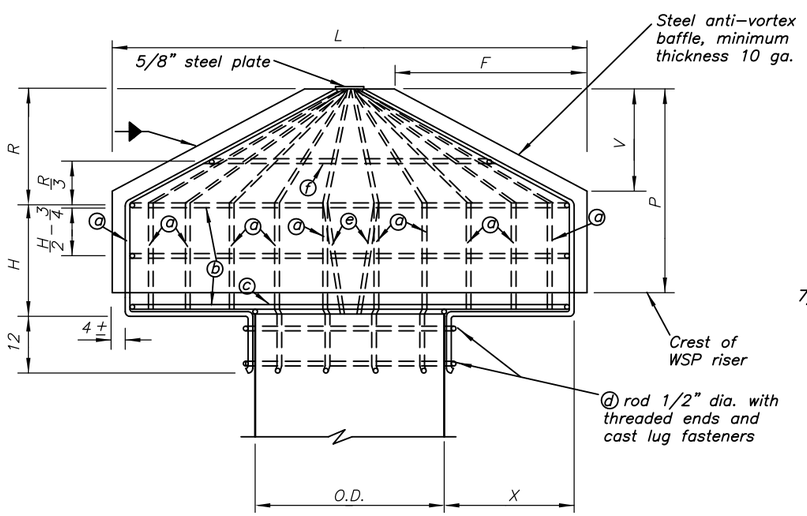
1. Weld 4 (b), (c) and (f) rods to (a) rods and weld (a) rods to top plate.
2. When (e) rods are used, weld them to the (a) rods that are perpendicular (or the two (a) rods most nearly perpendicular) to the anti–vortex baffle plate.
3. The trash rack may be fabricated in identical halves and attached to the baffle plate with 1/2 inch diameter U bolts spaced approximately 12 inches C–C along the vertical and inclined sections of the (a) rods next to the plate.
4. Q in the table is based on weir flow for indicated depth of flow (H), using a weir coefficient of 3.33.
5. Trash rack to be fabricated from smooth round steel bars conforming to ASTM Designation A–36.
6. Trash rack to have one coat of paint.
7. Outside diameter of riser is 54 inches. Allow 1/4 inch clearance for ease of installation.



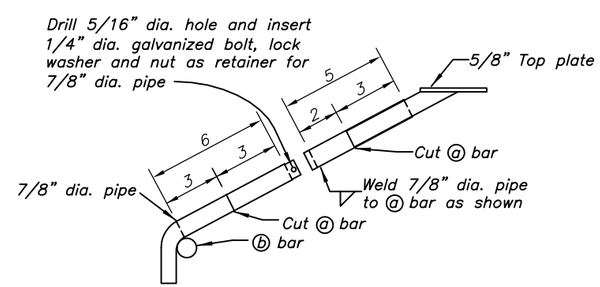
BENDING DIAGRAM FOR (d) RODS



BENDING DIAGRAM FOR (b), (c) & (f) RODS



SECTIONAL ELEVATION A–A



(a) BAR MODIFICATION

DRAFT

NOT FOR CONSTRUCTION

Date

Designed

Drawn

Checked

Approved

CONICAL TRASH RACK DETAIL FOR 54" DIAMETER SMOOTH RISER

United States Department of Agriculture
NRCS Natural Resources Conservation Service

File Name

Drawing Name
29–N–207

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