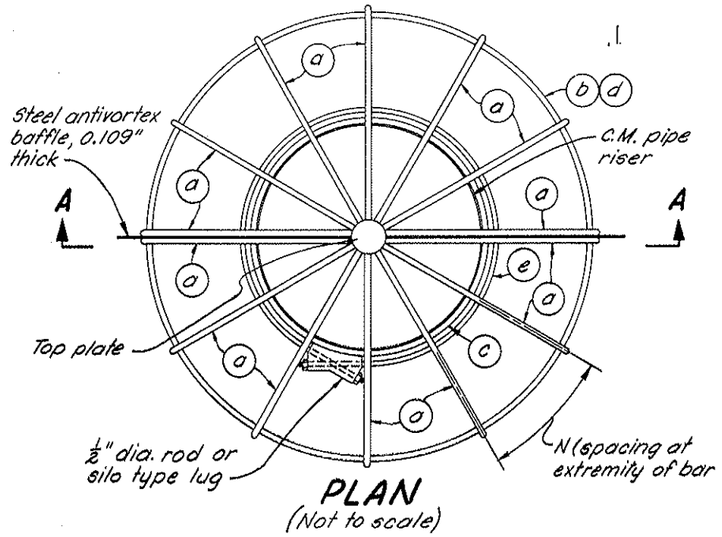
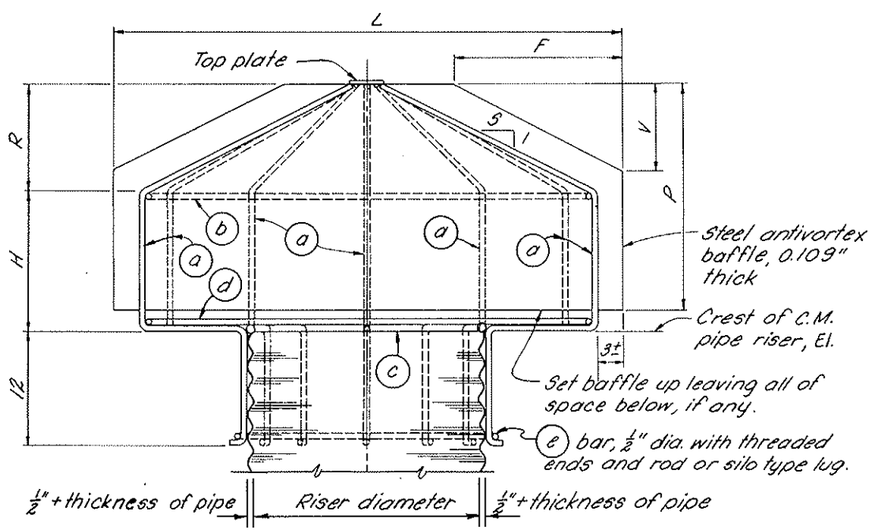


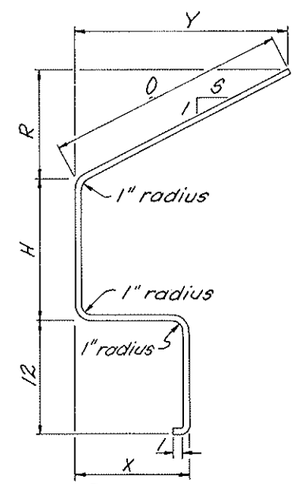

**PLAN**
(Not to scale)

# TABLE OF DIMENSIONS AND QUANTITIES

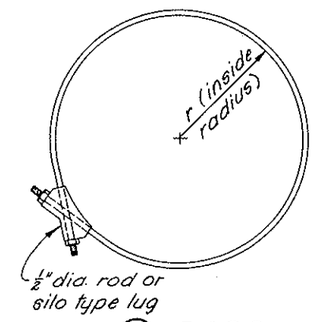
| | (a) BARS 5/8" DIA. | | | | | | | | | BAFFLE PLATE | | | | (b) BARS 5/8" DIA. | | | (c) BARS 5/8" DIA. | | | (d) BARS 5/8" DIA. | | | (e) BARS 1/2" DIA. | | | TOP PLATE 1/4" THICK | NO. OF LUGS REQ'D. | TRASH RACK WEIGHT LB. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H IN. | R IN. | X IN. | Y IN. | S | O IN. | TOTAL LENGTH | NO. REQ'D. | N IN. | L FT.IN. | P IN. | F IN. | V IN. | NO. REQ'D. | r IN. | LENGTH IN. | NO. REQ'D. | r IN. | LENGTH IN. | NO. REQ'D. | r IN. | LENGTH IN. | NO. REQ'D. | r IN. | LENGTH IN. | DIA. IN. | | |
| 12" DIA. C.M. PIPE RISER | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 9 | 11 1/8 | 6 | 11 1/8 | 1 | 15 5/8 | 3-7 5/8 | 10 | 9 1/8 | 2-6 | 18 | 5 | 5 | 2 | 11 5/16 | 36 1/2 | 1 | 6 | 39 3/4 | 1 | 11 5/16 | 73 | 1 | 7 3/16 | 53 | 3 | 1 | 74 |
| 15" DIA. C.M. PIPE RISER | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 9 | 12 5/8 | 6 | 12 5/8 | 1 | 17 3/4 | 3-9 3/4 | 10 | 10 1/4 | 2-9 | 18 | 6 | 6 | 2 | 12 13/16 | 41 1/4 | 1 | 7 1/2 | 49 | 1 | 12 13/16 | 82 1/2 | 1 | 8 11/16 | 63 | 3 | 1 | 80 |
| 18" DIA. C.M. PIPE RISER | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 9 | 14 1/8 | 6 | 14 1/8 | 1 | 20 | 4-0 | 10 | 11 7/16 | 3-0 | 21 | 8 | 8 | 2 | 14 5/16 | 46 | 1 | 9 | 58 1/2 | 1 | 14 5/16 | 92 | 1 | 10 1/4 | 73 | 3 | 1 | 89 |
| 21" DIA. C.M. PIPE RISER | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | 9 1/4 | 9 | 18 1/2 | 2 | 20 5/8 | 4-6 5/8 | 12 | 12 3/8 | 4-0 | 18 | 12 | 6 | 2 | 18 13/16 | 60 | 1 | 10 1/2 | 68 | 1 | 18 13/16 | 120 | 1 | 11 3/4 | 82 1/2 | 3 1/2 | 1 | 114 |
| 24" DIA. C.M. PIPE RISER | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | 11 3/8 | 12 | 22 3/4 | 2 | 25 3/8 | 5-5 3/8 | 12 | 14 13/16 | 4-6 | 24 | 18 | 9 | 2 | 23 5/16 | 74 | 1 | 12 | 77 1/2 | 1 | 23 5/16 | 148 | 1 | 13 1/4 | 91 1/2 | 3 1/2 | 1 | 142 |
| 30" DIA. C.M. PIPE RISER | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 18 | 9 1/2 | 15 | 28 1/2 | 3 | 30 | 6-4 | 14 | 15 13/16 | 6-0 | 24 | 21 | 7 | 2 | 29 5/16 | 93 | 1 | 15 | 96 | 1 | 29 5/16 | 186 | 1 | 16 1/4 | 111 | 4 | 1 | 182 |
| 36" DIA. C.M. PIPE RISER | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 21 | 12 1/2 | 21 | 37 5/8 | 3 | 39 1/2 | 7-10 1/2 | 16 | 17 5/16 | 7-6 | 30 | 30 | 10 | 2 | 38 3/8 | 121 1/2 | 1 | 18 | 115 | 1 | 38 3/8 | 243 | 1 | 19 1/4 | 128 | 4 | 1 | 267 |



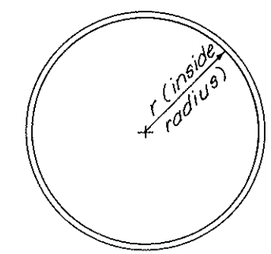

**SECTIONAL ELEVATION A-A**
(Not to scale)



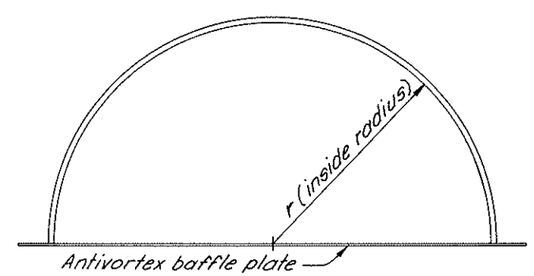

(a) BARS




(e) BARS




(c) AND (d) BARS




(b) BARS

**BENDING DIAGRAM**

NOTES:

1. WELD 4 (a) BARS TO BAFFLE PLATE AND TO TOP PLATE. WELD (c) AND (d) BARS TO 4 (a) BARS. WELD (b) BAR TO (a) BARS AND BAFFLE PLATE. WELD REMAINING (a) BARS TO (b), (c), AND (d) BARS AND TOP PLATE.
2. THE TRASH RACK AND ANTIVORTEX BAFFLE MAY BE FABRICATED AS A UNIT, OR TRASH RACK MAY BE FABRICATED IN IDENTICAL HALVES AND ATTACHED TO BAFFLE PLATE WITH 1/2" DIA. U BOLTS SPACED APPROXIMATELY 12" c-c ALONG THE VERTICAL AND INCLINED SECTIONS OF THE (a) BARS NEXT TO THE PLATE.
3. ALL BARS ARE SMOOTH ROUND BARS.
4. SPECIFY FINISH.

## 12" TO 36" DIA. CONICAL TRASH RACK AND BAFFLE PLATE

## SOUTH DAKOTA GUIDE PLAN NO. 6.0

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

| | | | |
|---|---|---|---|
| Designed D.H., D.T. | Date 7-70 | Approved by | |
| Drawn | | Title | |
| Traced | | Title | |
| Checked | | Sheet No. 1 of 1 | Drawing No. |

5, N-29, 073.6