

24" FROST-PROOF MANHOLE RING AND COVER, EAST JORDAN EJ #3770 STAMPED "WATER" WITH 2" INSULATING DISK

SPRAYED ON POLYURETHANE FOAM INSULATION. 3" THICK ON TOP OF VAULT AND 4" THICK ON SIDES DOWN 3'-0" FROM TOP

EXISTING GRADE

6:1 MIN.

FINISHED GRADE

30"

SCREENED MUSHROOM VENT. GREEN VENT, BY OHIO ELECTRIC CONTROL OR APPROVED EQUAL

STEEL PIPE. SIZE TO MATCH AIR & VACUUM VALVE

3' CONE SECTION

CURB STOP AND BOX FOR VALVES SMALLER THAN 2"

MANHOLE STEPS @ 12" O.C.

INFLOW PREVENTER

4' BARREL SECTION

BUTTERFLY VALVE

ADJUSTABLE PIPE STAND

PEA GRAVEL FLOOR

SECTION A-A

P 1727 (GALV.)

VAULT FOOTING 5' LONG BY 2' WIDE BY 8" THICK WITH 3 #4 REBAR EACH WAY. FOOTING SHALL BE PLACED ON 6" OF CRUSHED BASE COURSE GRAVEL COMPAKTED TO 95%

48 IN DIA. MANHOLE

MANHOLE STEPS @ 12" O.C.

5/8" ANCHOR BOLTS
SWAY BRACE
P1000 (GALV.)
SEE NOTE #1

A

GROUT AROUND PIPE PENETRATIONS TO TOP OF PIPE BEDDING

4" VENT

VALMATIC COMBINATION AIR/VACUUM VALVE W/ AIR RELEASE VALVE (SIZE PER PLAN)

VAULT FOOTING 5' LONG BY 3' WIDE BY 8" THICK WITH 3 #4 REBAR EACH WAY. FOOTING SHALL BE PLACED ON 6" OF CRUSHED BASE COURSE GRAVEL COMPAKTED TO 95%

PLAN

GENERAL NOTES:

- CONSTRUCTION MATERIALS AND PROCEDURES SHALL COMPLY WITH MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS (MPWSS), 7TH EDITION, APRIL 2021, AS MODIFIED BY THE MISSOULA CITY PUBLIC WORKS STANDARDS AND SPECIFICATIONS MANUAL, APPENDIX 2-A (STANDARD MODIFICATIONS TO MPWSS), CURRENT EDITION.
- SWAY BRACE PRODUCT NUMBERS ARE UNISTRUT. USE UNISTRUT, KINLINE OR EQUAL. SECURE ARV TO SWAY BRACE w/ 2"x 12 GA. STRAP. USE STRUT MFR'S. BOLTS & NUTS. PAINT GALV. ITEMS PER MANUFACTURER'S RECOMMENDATIONS.



Engineering Division

Air/Vacuum Relief Valve Detail

Logan McInnis

Approved By
Utilities Engineer
Logan McInnis, PE

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STD - 411