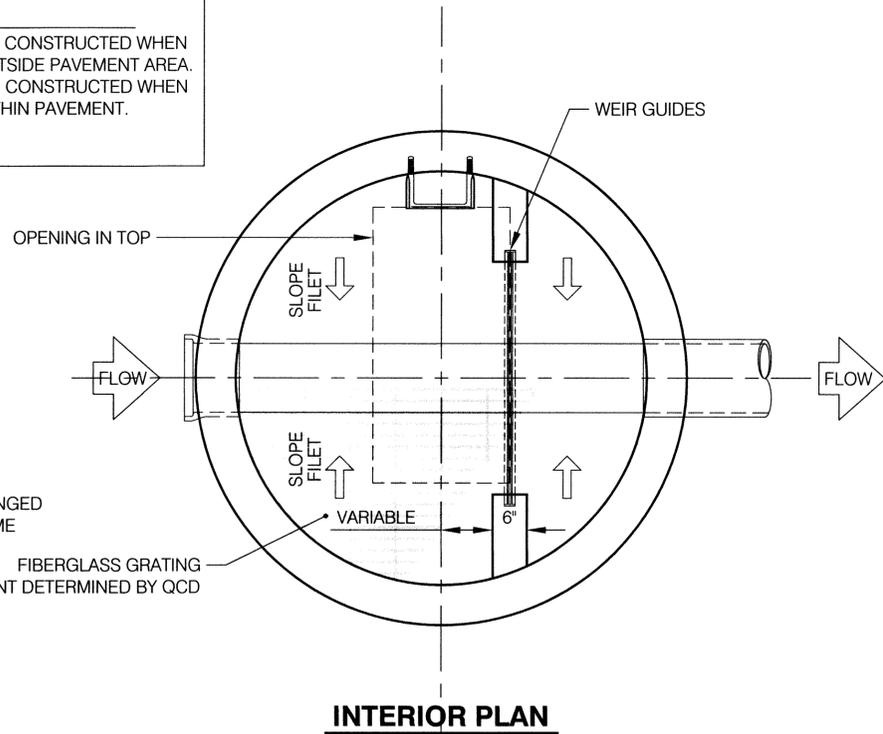
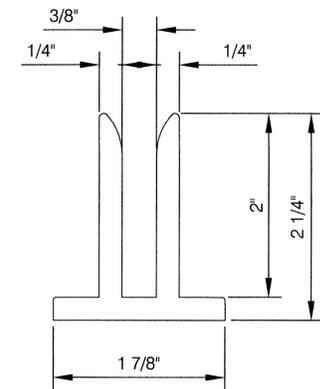


MANHOLE PLAN....OUTSIDE PAVEMENT

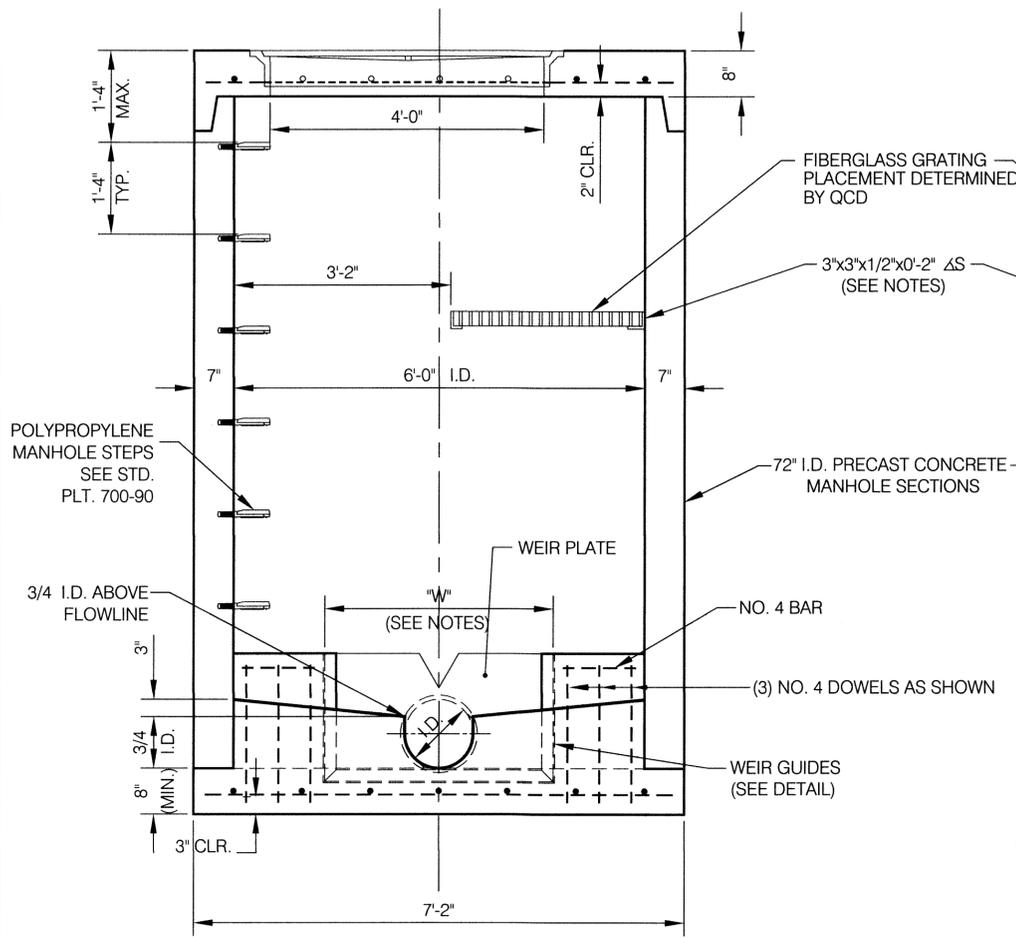
NOTE
HINGED LID TOP SHALL BE CONSTRUCTED WHEN MANHOLE IS LOCATED OUTSIDE PAVEMENT AREA. ALTERNATE TOP SHALL BE CONSTRUCTED WHEN MANHOLE IS LOCATED WITHIN PAVEMENT. SEE SHEET 2.



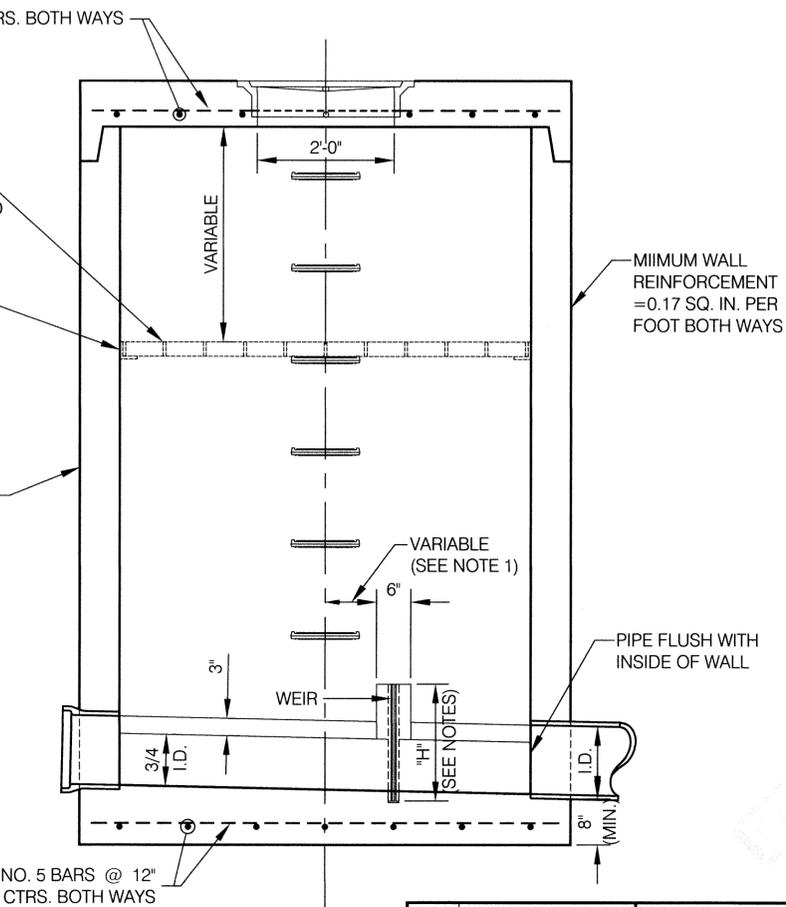
INTERIOR PLAN



WEIR GUIDE DETAIL



SECTION A-A



SECTION B-B

NOTES

1. QUALITY CONTROL DIVISION (QCD) MUST VERIFY THE DIMENSIONS AND TOLERANCES OF THE GUIDES AND WEIR PLATE BEFORE INSTALLATION.
2. INDUSTRY SHALL PROVIDE ANTICIPATED MAXIMUM AND MINIMUM FLOW RATES IN GALLONS PER MINUTE (GPM) OR CUBIC FEET PER SECOND (CFS) TO QCD FOR SIZING PURPOSES.
3. QCD MUST INSPECT FORMS BEFORE POURING CONCRETE AND AFTER TO VERIFY PROPER INSTALLATION AND TO ENSURE TOLERANCE ARE WITHIN SPECIFICATION. CONTACT QCD: (402)444-3915 (EXT 135) TO ARRANGE INSPECTIONS.
4. ALL DIMENSIONS SHALL BE PROVIDED BY QCD.
5. WEIR GUIDES AND 1/4" WEIR PLATE MUST BE FABRICATED FROM 10 GAUGE TYPE 304 STAINLESS STEEL.
6. ALL DIMENSIONS OF V-NOTCH + OR - 1/64TH INCH.
7. ALL WEIR PLATE SURFACES MUST BE MILLED, LEVEL, AND PLUMB.
8. ENTIRE V-NOTCH MUST HAVE A 60 DEGREE DOWNSTREAM CHAMFERED EDGE (SEE SHEET 3).
9. V-NOTCH MUST COME TO A SHARP DEFINED POINT.
10. WEIR PLATE MUST REST IN WEIR GUIDES LEVEL AND PLUMB.
11. THE UPSTREAM APPROACH PIPE TO THE SMH MUST BE STRAIGHT (NO TIE INS, BENDS OR TURNS). THE MINIMUM LENGTH OF THE APPROACH PIPE SHALL BE EQUAL TO OR GREATER THAN 25 TIMES THE DIAMETER OF THE PIPE.
12. THE UPSTREAM AND DOWNSTREAM PIPE MUST HAVE A UNIFORM SLOPE AND BE DESIGNED SO THE APPROACHING FLOW IS RELATIVELY FREE OF TURBULENCE. PROVIDE QCD WITH % SLOPE FOR APPROVAL. ALL CONCRETE SHALL BE HIGH ALKALINITY, MINIMUM 50% CALCAREOUS AGGREGATE, CLASS L65M, TYPE II CEMENT.
13. THE MINIMUM INSIDE DEPTH OF SAMPLING MANHOLES SHALL BE 4'.
14. HINGED TOP LID SHALL BE CONSTRUCTED WHEN THE SAMPLING MANHOLE IS LOCATED OUTSIDE PAVEMENT AREA. ALTERNATE TOP SHALL BE CONSTRUCTED WHEN SAMPLING MANHOLE IS LOCATED WITHIN PAVEMENT (SEE SHEET 2).
15. THE CONCRETE TOP MAY BE PRECAST OR CAST IN PLACE.
16. STAINLESS STEEL SUPPORT ANGLES FOR GRATING SHALL BE FASTENED TO THE WALLS WITH STAINLESS STEEL CONCRETE ANCHORS.
17. GRATING PLACEMENT TO SMH SHALL BE DETERMINED BY QCD.
18. GRATING AND APPURTENANCES SHALL BE DESIGNED TO CARRY A UNIFORM LIVE LOAD OF 250PSF AND A 500 LB CONCENTRATED LOAD AT THE MIDPOINT.
19. A LAYER OF ALUMILASTIC CONSISTENCY C, C-I, OR K, OR APPROVED EQUAL, SHALL BE PLACED BETWEEN ALUMINUM COMPONENTS AND ALL CONCRETED CONTACT POINTS.
20. PRECAST CONCRETE MANHOLE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THIS STANDARD PLATE AND SANITARY MANHOLE REQUIREMENTS IN SECTION 700 OF THE MOST CURRENT VERSION OF 'THE CITY OF OMAHA STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION'. JOINTS SHALL BE CONFINED O-RING GASKET CONFORMING TO THE REQUIREMENTS OF ASTM C361.
21. 72" I.D. MANHOLE SHALL BE MANUFACTURED ACCORDING TO A.S.T.M. STANDARD SPECIFICATION C478 EXCEPT AS NOTED. USE 7" WALL THICKNESS.
22. SAMPLING MANHOLES SHALL BE LOCATED SO ACCESS IS AVAILABLE TO SAMPLING CREWS AT ALL TIMES.
23. MANHOLES ON PRIVATE PROPERTY SHALL BE LOCATED SO THEY ARE UNOBSTRUCTED BY PARKED OR MOVING VEHICLES.
24. IF THE FINAL QCD INSPECTION DETERMINES THE METERING DEVICE/PIPING DOES NOT MEET TOLERANCES OR SPECIFICATIONS THE INSTALLATION WILL BE REJECTED.
25. REINFORCING SHALL BE PLACED WITH A TOLERANCE OF -1/4" AND +1/2" ON CLEARANCE.

Kirk R. Phoff
DESIGN ENGINEER
Scott P. Peterson
CITY ENGINEER

CITY OF OMAHA PUBLIC WORKS DEPARTMENT

SAMPLING MANHOLES
WEIR TYPE

STANDARD PLATE 700-18

ISSUE DATE: ... DECEMBER 10, 2013

SHEET 1/3