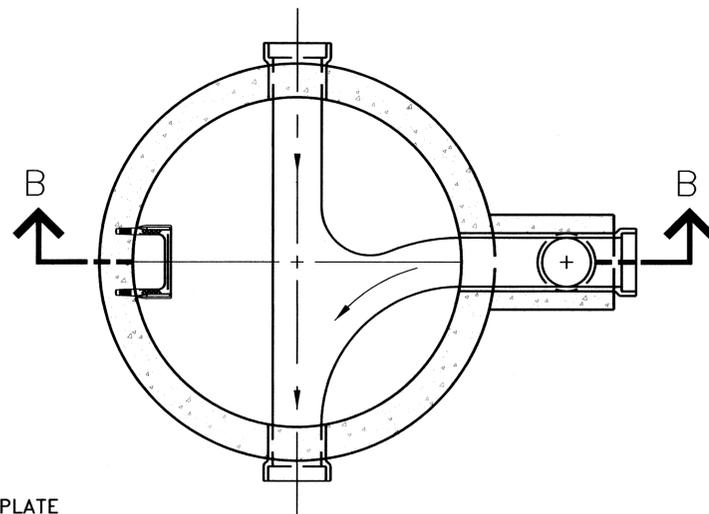


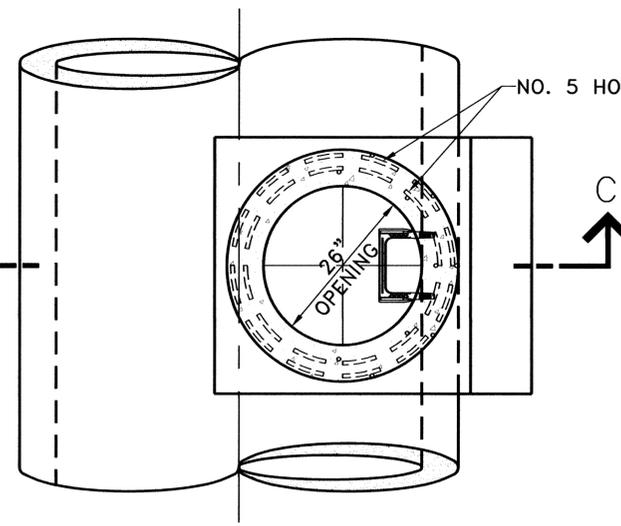
STANDARD 54" MANHOLE

BACK OF BELL FLUSH WITH OUTSIDE WALL

SEE STANDARD PLATE



MANHOLE DROP CONNECTION

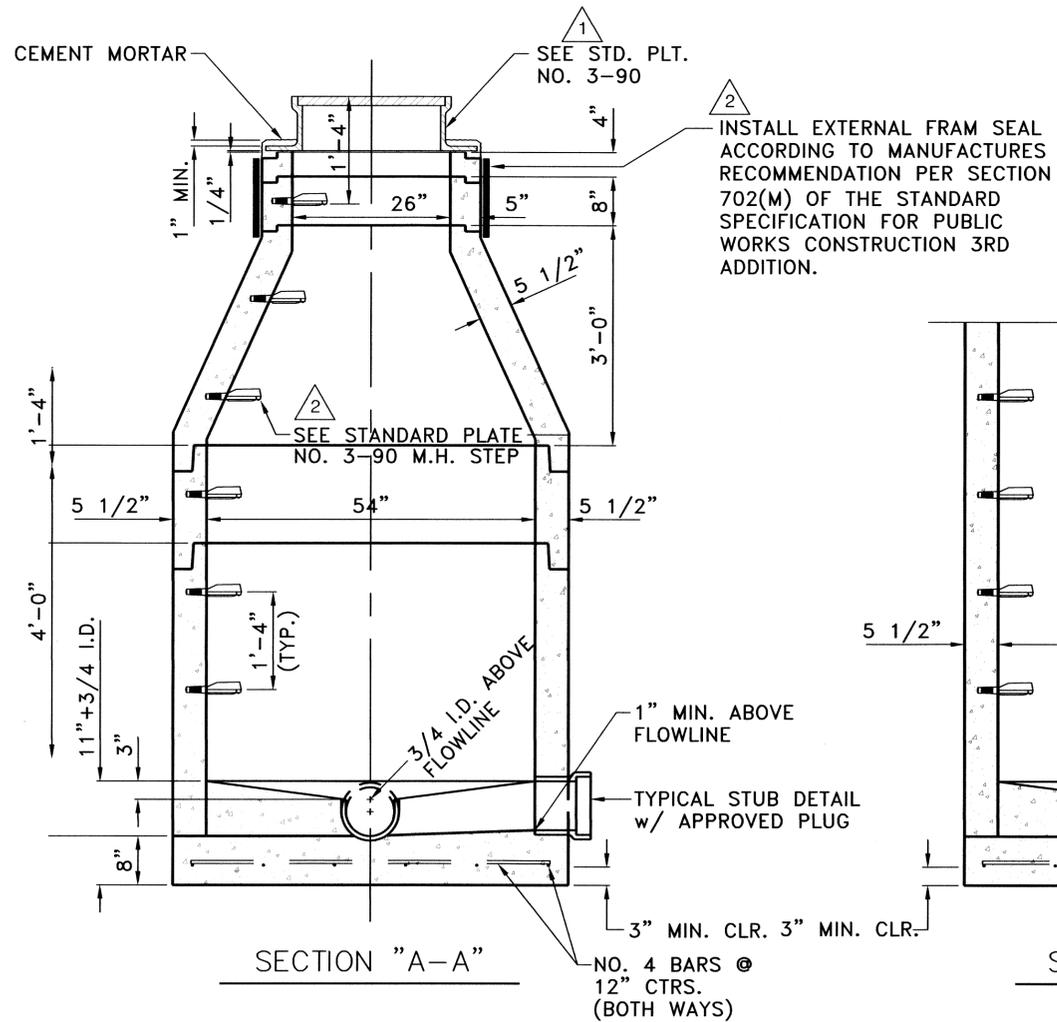


SIDEWALL TYPE MANHOLE  
(48" PIPE OR LARGER)

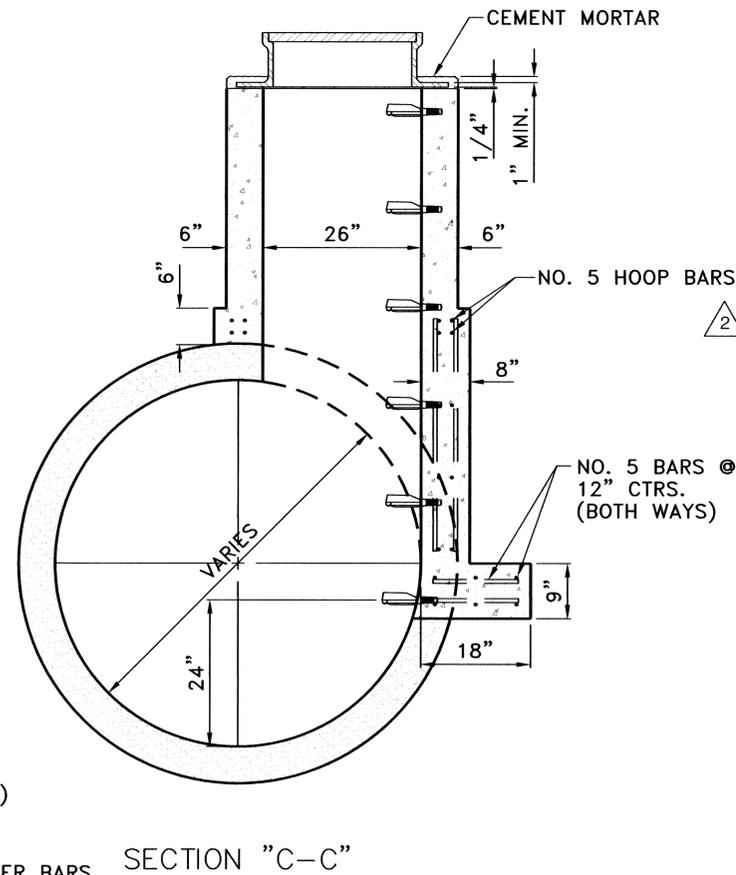
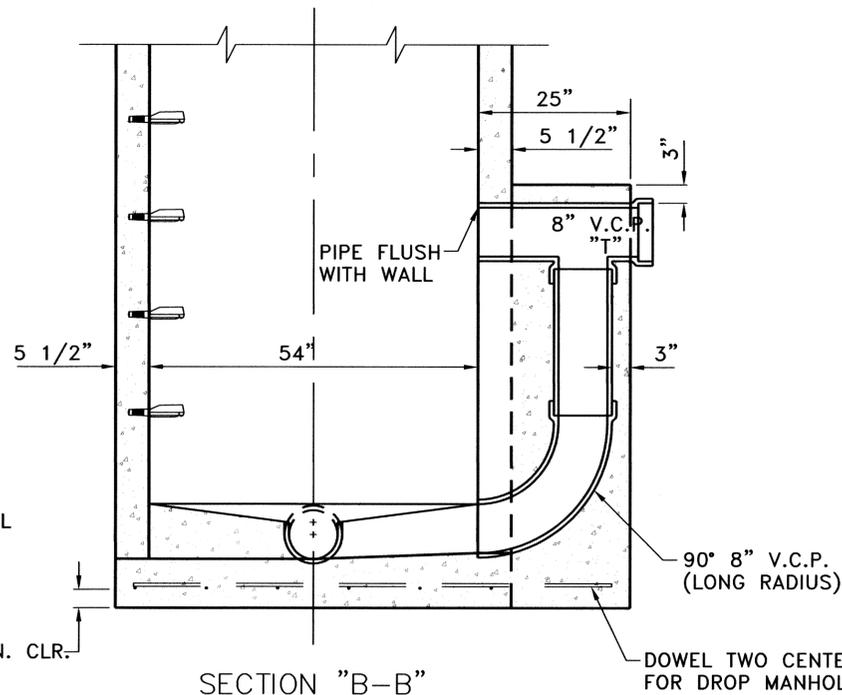
NOTE:  
1. FIELD CONSTRUCTION AS SHOWN OR SHOP FABRICATE BY REMOVING FRESH CONCRETE, CUTTING AND CONNECTING REINFORCING STEEL IN THE BARREL TO THE STEEL IN THE MANHOLE RISER. THEN GROUT THE STEEL TO FORM A NEAT, SMOOTH CONNECTION. SUBMIT DETAIL ON REQUEST.

GENERAL NOTES:

1. MANHOLES MAY BE CONSTRUCTED OF BRICK, MASONRY, OR CONCRETE. ALL MANHOLES ARE TO BE CONSTRUCTED CIRCULAR IN PLAN SIMILAR TO DRAWING. CONCRETE INMANHOLES SHALL BE CLASS L6AE OR SG65AE. THE INVERT OF THE MANHOLE SHALL BE MONOLITHICALLY POURED CONCRETE.
2. ON BRICK MANHOLES ALL JOINTS SHALL BE A SHOVED JOINT CAREFULLY STRUCK WHEN LAID, AND ON THE OUTSIDE SHALL BE FILLED WITH MORTAR, FLUSH WITH THE OUTSIDE OF THE BRICK. BRICK MANHOLES SHALL BE FINISHED WITH ONE-HALF INCH PLASTER COAT ON THE OUTSIDE COMPOSED OF CEMENT MORTAR, ONE PART PORTLAND CEMENT AND THREE PARTS SAND BY VOLUME.
3. WHEN PRE-CAST CONCRETE MANHOLE SECTION ARE USED, EACH SECTION SHALL BE SET IN A FRESH BED OF MORTAR TO MAKE A MORTAR JOINT ONE-EIGHTH INCH THICK, AND SHALL BE POINTED UP INSIDE AND OUT AFTER THE SECTION IS IN PLACE.
4. THE CAST IRON MANHOLE RING SHALL SET IN A BED OF MORTAR AND CAREFULLY ADJUSTED TO THE EXISTING GRADE. MANHOLE RING AND COVER SHALL BE CITY OF OMAHA STANDARDS, AS PER STANDARD PLATE NO. 3-90. MANHOLE STEPS SHALL BE CITY OF OMAHA STANDARD, AS PER STANDARD PLATE NO. 3-90.
5. DROPS ARE REQUIRED FOR SANITARY SEWERS AND COMBINED SEWERS WHEN IT IS NECESSARY THAT SANITARY FLOW ENTER A MANHOLE AT A HEIGHT OF MORE THAN TWO FT. ABOVE IT'S FLOWLINE.
6. ON LARGE DIAMETER PIPE THE INVERT SHALL BE FORMED WHEN POURED TO THE THREE QUARTER POINT OF THE PIPE, BRICK THEN SHALL BE USED TO COMPLETE THE MANHOLE TO A POINT WHERE PRE-CAST MANHOLE SECTIONS CAN BE USED, OR TO THE TOP OF THE MANHOLE.
7. FOR MANHOLES LESS THAN 7'-0" HIGH THE 54" DIA WILL BE CARRIED TO THE SURFACE-COVER WITH 66" DIA. ROUND SLAB WITH STD. M.H. RING & COVER. THE SLAB SHALL BE REINFORCED WITH NO. 5 BARS 12" CENTER TO CENTER BOTH WAYS. ALSO 4-NO. 5 BARS TO BE PLACED DIAGONALLY AROUND THE OPENING. THE COST OF THE FLAT COVER IS TO BE INCLUDED IN THE COST OF THE MANHOLE.



INSTALL EXTERNAL FRAM SEAL ACCORDING TO MANUFACTURES RECOMMENDATION PER SECTION 702(M) OF THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION 3RD ADDITION.



2	REVISION 08/31/2007	 DESIGN ENGINEER  CITY ENGINEER	CITY OF OMAHA PUBLIC WORKS DEPARTMENT	STANDARD PLATE <b>708</b>	SHEET 1/1
1	REVISION 01/01/1968				
STANDARD DETAIL OF MANHOLE			ISSUE DATE: ... JANUARY 1, 1968		