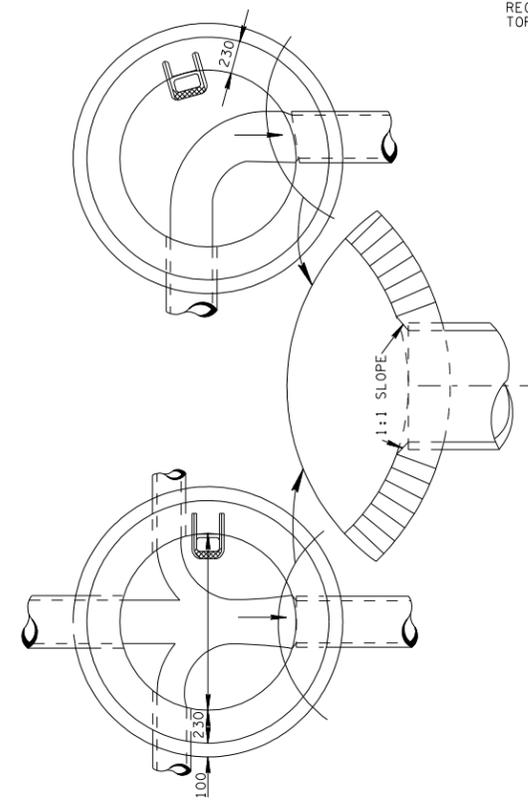


NOTE: PIPE OFF CENTER, EXACT LOCATION TO BE DETERMINED IN FIELD.

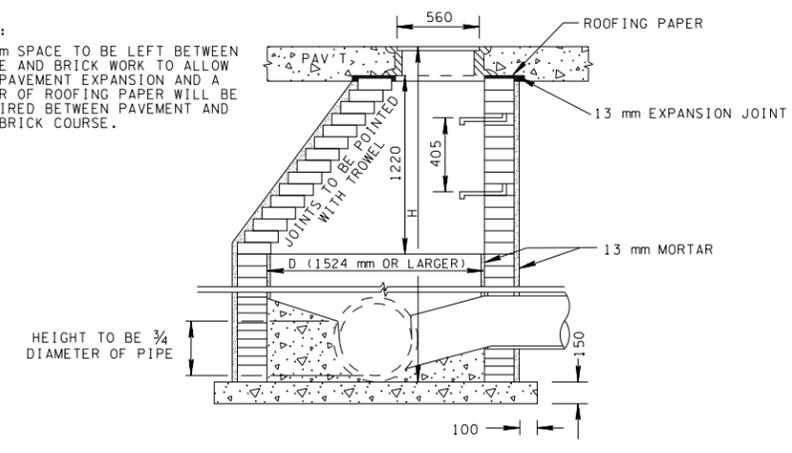


TYPICAL PLANS

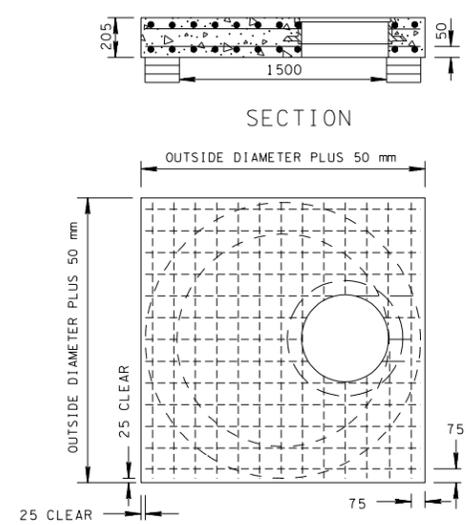
INSIDE DIAMETER (X) OF PIPE (mm)	DIAMETER OF CUT-OUT HOLES (mm)		
	CONCRETE PIPE	CORRUGATED METAL PIPE	POLYETHYLENE PIPE
450	660	535	610
600	815	685	785
750	1015	840	990
900	1195	1015	1145
1050	1370	1170	1270
1200	1550	1320	1420
1350	1725	1475	—
1500	1905	1625	—
1650	2085	1780	—
1800	2285	1930	—
1950	2440	2085	—

CUT-OUT HOLES FOR PRECAST STRUCTURES TO BE CORED OR FORMED IN ORDER TO OBTAIN A SMOOTH EDGED HOLE. SCORED OR ETCHED HOLES WITH REINFORCING STEEL LEFT UN CUT WILL NOT BE PERMITTED.

NOTE: 13 mm SPACE TO BE LEFT BETWEEN FRAME AND BRICK WORK TO ALLOW FOR PAVEMENT EXPANSION AND A LAYER OF ROOFING PAPER WILL BE REQUIRED BETWEEN PAVEMENT AND TOP BRICK COURSE.



SECTION BRICK MANHOLE WITH ECCENTRIC TAPER



PLAN FOR 205 mm THICK REINFORCED CONCRETE SLAB

COST OF REINFORCED CONCRETE SLAB TO BE INCLUDED IN PRICE BID FOR MANHOLE OF REQUIRED DEPTH.

MANHOLE DIMENSIONS					
INSIDE DIA. OF MANHOLE D (mm)	WALL THICKNESS W (mm)	LID THICKNESS L (mm)	OUTSIDE DIA. OF MANHOLE D + 2W (mm)	MAX. INLET OR OUTLET CONC. PIPE SIZE - STR. (mm)	MAX. INLET OR OUTLET CONC. PIPE SIZE - 90° (mm)
1524	152	203	1828	900	600
1828	178	229	2184	1200	750
2134	203	229	2540	1500	900
2438	229	254	2896	1650	1050
2743	254	254	3251	1800	1200
3048	280	254	3607	1950	1350

GENERAL NOTES

(A) THIS MANHOLE WILL CONFORM TO THE STANDARD DRAWING UNLESS OTHERWISE SHOWN OR DIRECTED BY THE ENGINEER TO MEET SPECIAL CONDITIONS. THERE WILL BE NO VARIATION FROM THE CONTRACT PRICE DUE TO SUCH CHANGES. IN ALL CASES IT MUST BE BUILT LARGE ENOUGH TO ACCOMMODATE INLET AND OUTLET PIPES.

(B) THE PRECAST CONCRETE MANHOLE SHALL MEET THE REQUIREMENTS AND SPECIFICATIONS SET OUT IN ASTM-C478M LATEST REVISION.

(C) ALL CONCRETE FOR MASONRY MANHOLE TO BE CLASS "A".

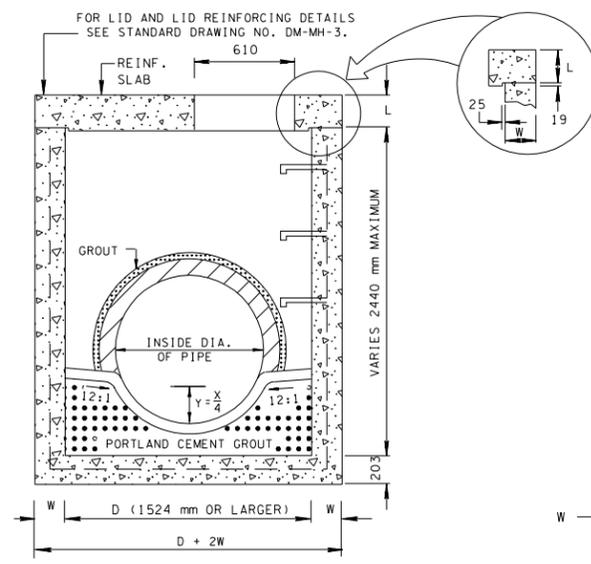
(D) FOR MASONRY MANHOLES, ALL WALLS WILL BE LAID IN COURSES CONSISTING OF HEADERS ONLY.

(E) THE COST OF CASTINGS FOR COVERS AND RIMS AND OF MANHOLE STEPS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR MANHOLES.

(F) THE PLACING OF CONCRETE AND FORMING OF INVERTS AS INDICATED FOR BRICK MANHOLES SHALL APPLY IN LIKE MANNER FOR PRECAST MANHOLES. COST OF FURNISHING AND PLACING THE CONCRETE TO BE INCLUDED IN UNIT PRICE BID PER MANHOLE.

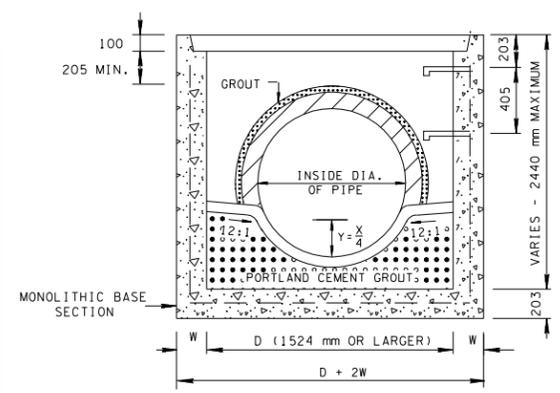
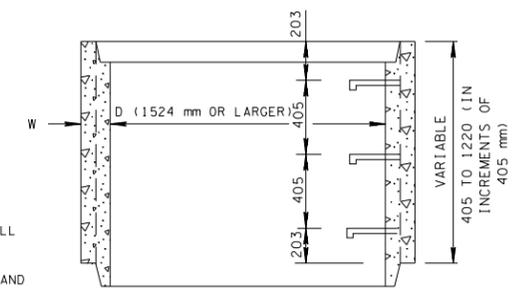
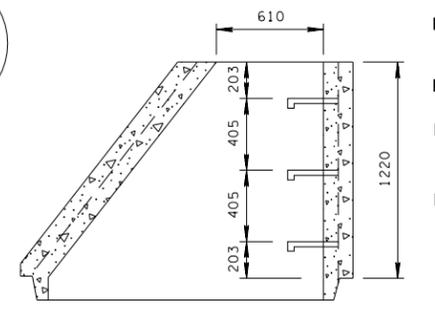
(G) PAYMENT FOR BRICK MANHOLES WILL BE MADE UNDER ITEM NUMBERS 611M01.02 MANHOLES, > 1m-2m DEPTH AND 611M01.03, MANHOLES, > 2m-3m DEPTH PER EACH.

(H) PAYMENT FOR PRECAST CONCRETE CIRCULAR MANHOLES WILL BE MADE UNDER ITEM NUMBERS 611M01.02 MANHOLES, > 1m-2m DEPTH THROUGH 611M01.09, MANHOLES, > 8m-9m DEPTH PER EACH. PAYMENT FOR MANHOLES DEEPER THAN 9m WILL BE MADE UNDER ITEMS NUMBERS 611M01.10 THROUGH 611M01.19, MANHOLE ___m TO ___m DEPTH PER EACH.

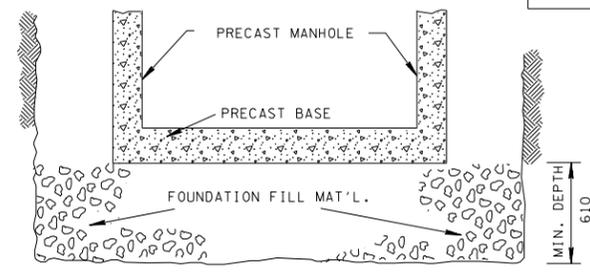


STANDARD FLAT TOP MANHOLE

WHEN MANHOLES OF BRICK ARE TOO SHALLOW TO SECURE PROPER BATTER, THE WALLS SHALL BE BUILT VERTICALLY AND THE STRUCTURE CAPPED WITH A CLASS "A" CONCRETE SLAB - SEE TABLE FOR THICKNESS. (WITH MANHOLE FRAME LOCATED ECCENTRICALLY IN SLAB) REINFORCED WITH NO.16 DEFORMED STEEL BARS 50 mm FROM BOTTOM AND TOP OF SLAB AND SPACED 150 mm CENTER TO CENTER BOTH LONGITUDINALLY AND TRANSVERSELY. SLAB TO BE BUILT TO BASE OR PAVEMENT GRADE.



STANDARD ECCENTRIC CONCRETE RISER SECTION AND BASE SECTION



FOUNDATION DETAIL FOR PRECAST BASE

NOTE: COST OF FURNISHING AND PLACING FOUNDATION FILL MATERIAL TO BE INCLUDED IN UNIT PRICE BID FOR 611M02, MANHOLES. FOUNDATION FILL MATERIAL SHALL BE IN CONFORMANCE WITH SECTION 204 OF THE T.D.O.T. SPECIFICATIONS.

- REV. 11-1-95: CHANGED TO METRIC.
- REV. 7-29-96: MADE MINOR DIMENSIONING CORRECTIONS.
- REV. 1-19-97: ADDED GENERAL NOTE (A) ADDED CUT-OUT HOLE TABLE. ADDED MANHOLE DIMENSION TABLE.
- REV. 4-15-97: CHANGED MANHOLE DIMENSION TABLE.
- REV. 5-1-97: CHANGED DRAWING NO. FROM DM-MH-3 TO DM-MH-2. CHANGED BASE SECTION TO MONOLITHIC BASE SECTION.
- REV. 5-27-97: ADDED 2743 mm AND 3048 mm DIAMETER MANHOLES.
- REV. 5-27-01: CHANGED GENERAL NOTE (A) AND ADDED GENERAL NOTE (H) ADDED MANHOLE MAXIMUM DEPTH NOTES.

MANHOLE MAXIMUM DEPTH NOTES

(1) MAXIMUM DEPTH FOR BRICK MANHOLES IS 3.7 m.

(2) MAXIMUM DEPTH FOR PRECAST CONCRETE CIRCULAR MANHOLES IS 12 m.



ALL UNITS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

STANDARD MASONRY & PRECAST NO.3 MANHOLE

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