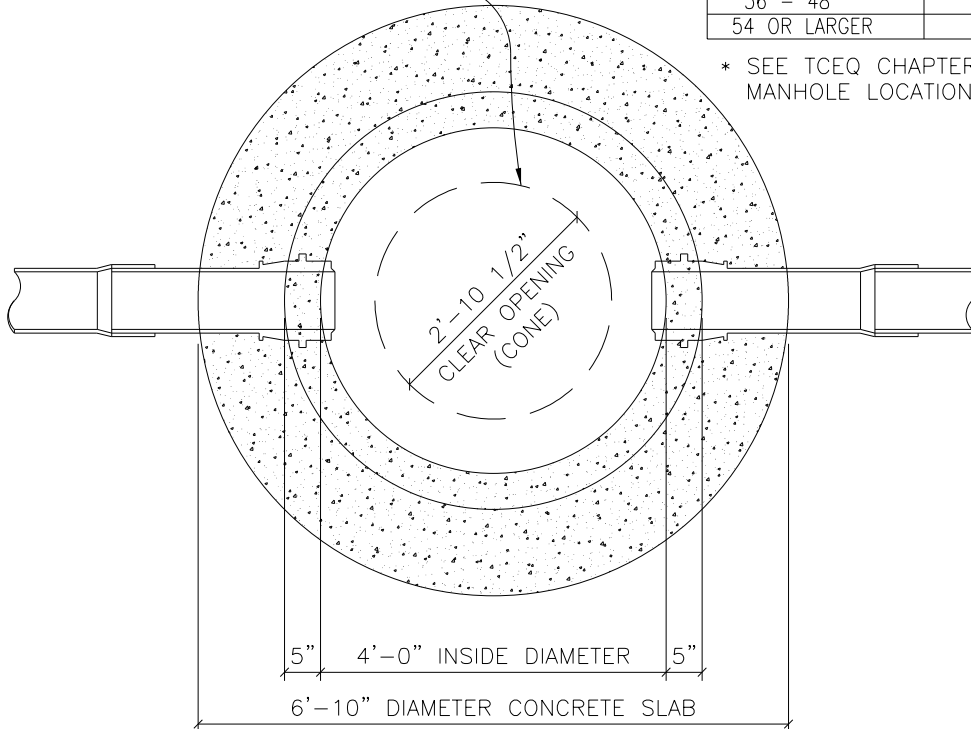


STANDARD CASTING AND COVER, AS SPECIFIED.
(BOLTED WHEN INDICATED ON PLANS)

* MAXIMUM MANHOLE SPACING	
PIPE DIAMETER (IN)	MAXIMUM MANHOLE SPACING (FEET)
6 - 15	500
18 - 30	800
36 - 48	1000
54 OR LARGER	2000

* SEE TCEQ CHAPTER 217 FOR ADDITIONAL
MANHOLE LOCATION REQUIREMENTS.



MANHOLE PLAN

NOTES:

MANHOLE DETAILS SHALL REFLECT THE CITY'S MINIMUM SPECIFICATIONS, AS STATED BELOW:

- A. ALL MANHOLES SHALL BE 48" I.D., R.C.P., CLASS III, WITH RUBBER O-RING GASKET JOINTS CONFORMING TO ASTM C478, C433 AND C76.
- B. ALL MANHOLES SHALL HAVE WATER-TIGHT FRAME AND COVER, WITH A MINIMUM 30" CLEAR OPENING, AS MANUFACTURED BY EAST JORDAN IRON WORKS (AS PER CONCRETE APRON AROUND MANHOLE RING & COVER DETAIL) OR APPROVED EQUAL.
- C. ALL MANHOLES SHALL BE CONCRETE WITH CAST IRON FRAME AND BOLTED COVER.
- D. ALL MANHOLES SHALL HAVE A CONCENTRIC LID.
- E. MANHOLES MAY HAVE A FLAT LID, IF APPROVED BY CITY OF MARBLE FALLS, BEING 12" THICK WITH A MINIMUM 30" OPENING, AS MANUFACTURED BY CALVERT CONCRETE OR APPROVED EQUAL M.F.G. CONFORMING TO ASTM C478, 5000 P.S.I. CONCRETE, TRAFFIC BEARING, AND O-RING JOINT CONFORMING TO ASTM C443.
- F. INVERTS AND FLEXIBLE SEAL BOOTS, PER ASTM C-923, SHALL BE CAST INTO BASE SECTION.
- G. MINIMUM DROP BETWEEN INVERTS SHALL BE ONE-TENTH OF A FOOT (0.1').
- H. TWO (2") INCH GRADE RINGS WITH AN I.D. TO MATCH FRAMES CLEAR OPENING, MINIMUM OF TWO (2), MAXIMUM OF FIVE (5) GRADE RINGS REQUIRED.
- I. ALL MANHOLES SHALL COMPLY WITH AND BE TESTED IN ACCORDANCE WITH CURRENT TCEQ REGULATIONS.

SCALE: NOT TO SCALE



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These documents were prepared by,
or under the supervision of:

ERIC BELAJ 107148 May 31, 2017
Engineer's Name PE# Date

Engineer's Signature

SECTION
WASTEWATER

DETAIL NO.
WW-11

TITLE
STANDARD MANHOLE PLAN