

MIN. MANHOLE DIAMETER	
PIPE SIZE	MIN. DIA.
LESS THAN 18"	4'-0"
18" - 24"	5'-0"
30" - 36"	6'-0"
GREATER THAN 36"	7'-0"

CONCRETE CLASSIFICATION CLASS A = 3,000 P.S.I./28 DAYS

ANY COMBINATION OF 1,2,3 OR 4 FOOT RING SECTIONS FOR DEPTH REQUIRED


6" FOR 4 FT. Ø MANHOLE  
8" FOR 6 FT. Ø MANHOLE

MIN. 6" MATERIAL MEETING ASTM C-33 CRUSHED STONE #57

ALL PIPES INTO MANHOLES SHALL BE SUPPORTED WITH CONCRETE IN OPEN EXCAVATION

**NOTES:**

1. MANHOLE INVERTS: THE BOTTOM OF THE MANHOLE SHALL BE PROVIDED WITH A "U" SHAPED CHANNEL THAT IS AS MUCH AS POSSIBLE A SMOOTH CONTINUATION OF THE INLET AND OUTLET PIPES. FOR MANHOLES CONNECTED TO PIPES LESS THAN 15 INCHES IN DIAMETER THE CHANNEL DEPTH SHALL BE AT LEAST HALF THE LARGEST PIPE DIAMETER. FOR MANHOLES CONNECTED TO PIPES 15 TO 24 INCHES IN DIAMETER THE CHANNEL DEPTH SHALL BE AT LEAST THREE FOURTHS THE LARGEST PIPE DIAMETER. IN MANHOLES WITH PIPES OF DIFFERENT SIZES, THE TOES OF THE PIPES SHALL BE PLACED AT THE SAME ELEVATION AND FLOW CHANNELS IN THE INVERT SLOPED ON AN EVEN SLOPE FROM PIPE TO PIPE. THE BENCH PROVIDED ABOVE THE CHANNEL SHALL BE SLOPED AT A MINIMUM OF 0.5 INCH PER FOOT.
2. CONTRACTOR SHALL GROUT THE INTERNAL AND EXTERNAL JOINTS FOR EACH RING SECTION.
3. 0.1' DROP SHALL BE PROVIDED WITHIN THE MANHOLE.
4. MANHOLE SHALL BE COATED PER APPROVED MANUFACTURER'S SPECIFICATIONS OUTLINED IN COS STANDARD PRODUCTS LIST.
5. MANHOLE OUTSIDE OF PAVEMENT SHALL HAVE BOLTED COVERS.

 <p><b>It's real.</b></p>	DATE ISSUED:	JUNE 1, 2013	TITLE	<p>SANITARY SEWER PRECAST CONCRETE MANHOLE</p>	
	REVISION	DATE	BY		
	1ST REVISION	7/29/15	TN		
	2ND REVISION	8/10/18	DB		
	3RD REVISION	12/08/20	DB	SCALE:	DRAWING No.
				SCALE:	N.T.S.
					WW-2