
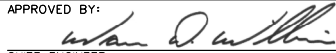


## NOTES

1. VALUES FOR A, B, C, D<sub>1</sub>, D<sub>2</sub>, ELEVATION R AND ELEVATION S ARE SHOWN ON THE IMPROVEMENT PLAN TABLE OF VALUES FOR F AND T HEREON.
2. LATERALS: IF LATERALS ENTER ON BOTH SIDES OF MANHOLE, ACCESS SHAFT SHALL BE LOCATED ON SIDE RECEIVING THE SMALLER LATERAL.
3. CENTER OF MANHOLE SHAFT SHALL BE LOCATED OVER CENTER LINE OF STORM DRAIN WHEN D<sub>1</sub> IS 48" OR LESS, IN WHICH CASE PLACE 8 E BARS SYMMETRICALLY AROUND SHAFT AT 45° WITH CENTER LINE
4. LENGTH L MAY BE INCREASED AT OPTION OF CONTRACTOR TO MEET PIPE ENDS, BUT ANY CHANGE IN LOCATION OF SPUR MUST BE APPROVED BY THE ENGINEER.
5. DETAIL M: WHEN DEPTH OF MANHOLE FROM STREET GRADE TO TOP OF BOX IS LESS THAN 2'-10 1/2" FOR PAVED STREETS OR 3'-6" FOR UNPAVED STREETS, CONSTRUCT MONOLITHIC SHAFT AS PER DETAIL M. THE CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING SHAFT AS PER DETAIL M FOR ANY DEPTH OF MANHOLE WHEN DIAMETER D<sub>1</sub> IS 48" OR LESS, CENTER OF SHAFT SHALL BE LOCATED AS PER NOTE 3.
6. REINFORCING STEEL SHALL BE ROUND, DEFORMED, STRAIGHT BARS, 1 1/2" CLEAR FROM INSIDE FACE UNLESS OTHERWISE SHOWN. TIE BARS SHALL BE NO. 4 AND SPACED 18" ON CENTERS OR CLOSER.
7. CONCRETE SHALL BE CLASS A, 1 1/2" AGGREGATE.
8. STEPS SHALL BE 3/4" ROUND, GALVANIZED STEEL AND ANCHORED NOT LESS THAN 6" IN THE WALLS OF STRUCTURE UNLESS OTHERWISE SHOWN THE SPACING SHALL BE 16" ON CENTERS. THE LOWEST STEP SHALL BE NOT MORE THAN 2' ABOVE THE INVERT.
9. RINGS, REDUCER AND PIPE FOR ACCESS SHAFT SHALL BE SEATED IN CEMENT MORTAR AND NEATLY POINTED OR WIPED INSIDE SHAFT.
10. FLOOR OF MANHOLE SHALL BE STEEL TROWELED TO SPRINGLINE.
11. BODY OF MANHOLE, INCLUDING SPUR, SHALL BE POURED IN ONE CONTINUOUS OPERATION, EXCEPT THAT THE CONTRACTOR SHALL HAVE THE OPTION OF PLACING AT THE SPRINGLINE A CONSTRUCTION JOINT WITH LONGITUDINAL KEYWAY AND REBAR DOWELS.
12. THE MAXIMUM COVER ABOVE THIS STRUCTURE SHALL BE 25'. IF THE COVER EXCEEDS 25' A SPECIAL STRUCTURE SHALL BE DESIGNED FOR THE COVER AND DETAILED ON THE PROJECT DRAWING.
13. P SHALL BE 5" UNLESS DIAMETER EXCEEDS 96" THEN P= 8".
14. WHERE PRESSURE MANHOLE NO. 4 IS SPECIFIED ON PLANS SEE STD DWG MH256 AND MH258.

\*\* TABLE OF VALUES FOR F AND T

* D <sub>2</sub> , D <sub>1</sub>	F	* D <sub>2</sub> , D <sub>1</sub>	F	B	T	B	T
12"	4"	63"	10"	12"	4"	63"	10"
15"	4 1/4"	66"	10 1/4"	15"	4 1/4"	66"	10 1/4"
18"	4 1/2"	69"	10 3/4"	18"	4 1/2"	69"	10 3/4"
21"	5"	72"	11"	21"	5"	72"	11"
24"	5 1/4"	78"	11 3/4"	24"	5 1/4"	78"	11 3/4"
27"	5 1/2"	84"	12 1/2"	27"	5 1/2"	84"	12 1/2"
30"	6"	90"	13 1/4"	30"	6"	90"	13 1/4"
33"	6 1/4"	96"	14"	33"	6 1/4"	96"	14"
36"	6 1/2"	102"	15 1/2"	36"	6 1/2"	102"	15 1/2"
39"	7"	108"	16"	39"	7"	108"	16"
42"	7 1/2"	114"	16 1/2"	42"	7 1/2"	114"	16 1/2"
45"	7 3/4"	120"	17"	45"	7 3/4"	120"	17"
48"	8"	126"	17"	48"	8"	126"	17"
51"	8 1/2"	132"	17 1/2"	51"	8 1/2"	132"	17 1/2"
54"	9"	138"	17 1/2"	54"	9"	138"	17 1/2"
57"	9 1/4"	144"	18"	57"	9 1/4"	144"	18"
60"	9 1/2"			60"	9 1/2"		

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	
RECOMMENDED FOR APPROVAL BY:  CHIEF, DESIGN & CONSTRUCTION DATE: <u>JANUARY 2011</u>	APPROVED BY:  CHIEF ENGINEER DATE: <u>JANUARY 2011</u>
R.E. No. 44684	R.C.E. No. 32336

MANHOLE NO. 4

STANDARD DRAWING NUMBER MH254  
SHEET 2 OF 2