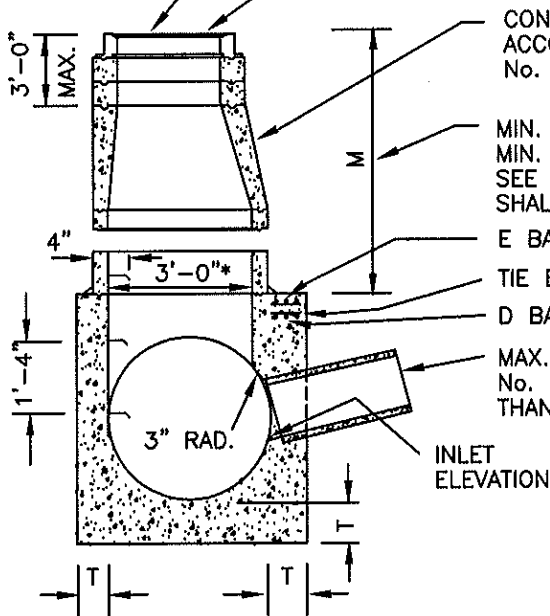


STREET GRADE  
MANHOLE FRAME & COVER  
IN ACCORDANCE WITH  
STD. PLAN No. 308



CONC. RINGS & REDUCER IN  
ACCORDANCE WITH STD. PLAN  
No. 309-1, 309-2 & 309-3

MIN. 2'-10-1/2" FOR PAVED STREETS  
MIN. 3'-6" FOR UNPAVED STREETS  
SEE DETAIL "M" FOR  
SHALLOW INSTALLATIONS.

E BARS  
TIE BARS  
D BARS  
MAX. 24" DIA. SIDE INLET. USE J.S.  
No. III FOR SIDE INLETS LARGER  
THAN 24" SEE STD. No. 306

D2	T
42"	8"
45"	8"
48"	8"
51"	8'-1/2"
54"	9"
57"	9'-1/4"
60"	9'-1/2"
63"	10"
66"	10'-1/4"
69"	10'-3/4"
72"	11"
78"	11'-3/4"
84"	12'-1/2"
90"	13'-1/4"
96"	14"

**SECTION A-A**

\* MANHOLE SHAFT SHALL BE 4'-0" & J.S.  
WIDTH SHALL BE 4'-0" WHEN "M" IS  
GREATER THAN 20'. ALSO USE 6" THICK  
RINGS IN ACCORDANCE WITH STD. PLAN  
No. 308-2 & 309-3

**NOTES:**

1. SEE SHEET 2 OF 2 FOR NOTES AND OTHER DETAILS.
2. USE JUNCTION STRUCTURE No. II FOR MAINLINE PIPE 42 INCH DIA. OR LARGER.

DIAM. D2	D BARS			E BARS		
	MIN. NO. REQ'D	SIZE	LENGTH	MIN. NO. REQ'D	SIZE	LENGTH
42"	6	#5	4'-6"	4	#4	3'-2"
45"	6	#5	4'-10"	4	#4	3'-5"
48"	6	#5	5'-1"	4	#4	3'-7"
51"	6	#5	5'-5"	6	#4	4'-9"
54"	6	#5	5'-9"	6	#4	5'-1"
57"	6	#5	6'-1"	6	#4	5'-6"
60"	6	#5	6'-4"	6	#4	5'-11"
63"	6	#5	6'-8"	6	#4	6'-3"
66"	6	#5	7'-0"	8	#4	6'-8"
69"	6	#5	7'-4"	8	#4	6'-8"
72"	6	#5	7'-7"	8	#4	6'-8"
78"	6	#5	8'-3"	8	#4	6'-8"
84"	6	#5	8'-10"	10	#4	6'-8"
90"	6	#6	9'-6"	10	#4	6'-8"
96"	6	#6	10'-1"	10	#4	6'-8"

REVISIONS

**CITY OF FOUNTAIN VALLEY**

**JUNCTION STRUCTURE NO. 2**

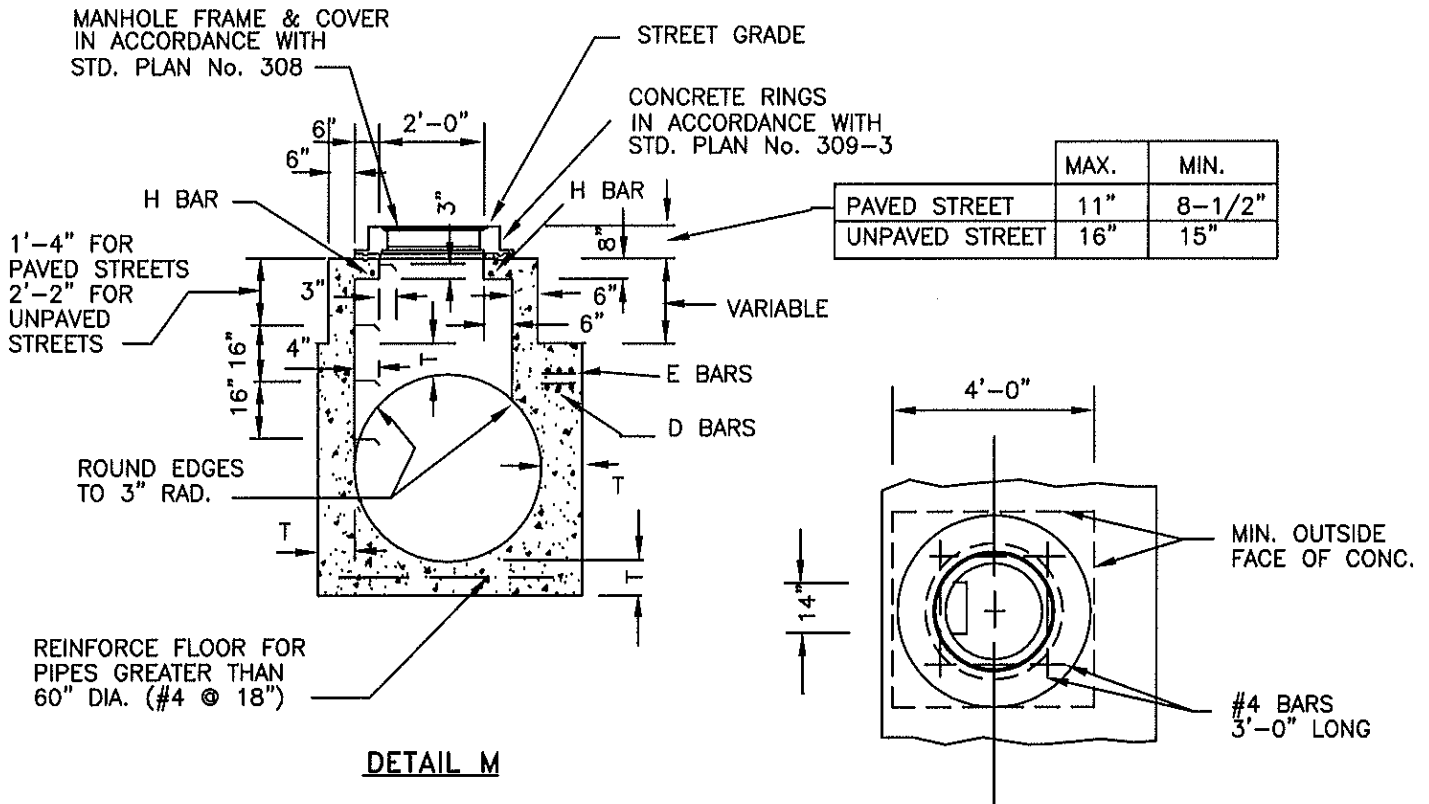
STANDARD  
PLAN NO.

**306-1**

APPROVED BY: *Mark Lewis*  
MARK LEWIS R.O.E 49335  
CITY ENGINEER

DATE: 06/03/03


SHEET: 1 OF 6



**DETAIL M**

**NOTES:**

1. CENTER OF MANHOLE SHAFT SHALL BE LOCATED OVER CENTERLINE OF STORM DRAIN WHEN DIAMETER D1 IS 48 INCHES OR LESS, IN WHICH CASE PLACE "E" BAR SYMMETRICALLY AROUND SHAFT AT 45° WITH CENTERLINE.
2. LENGTH "L" SHALL BE 5'-6" UNLESS OTHERWISE SHOWN ON PLANS. WHEN "L" IS SPECIFIED ON PLANS TO BE GREATER THAN 5'-6" CONTINUE "D" BARS AT 6 INCHES O.C.
3. LENGTHS SHOWN IN STEEL TABLE ARE FOR THE LONGEST BARS. WHERE SHORTER BARS ARE REQUIRED, BEND OR CUT BARS AS REQUIRED.
4. USE DETAIL "M" WHEN DEPTH OF MANHOLE FROM STREET GRADE TO TOP OF BOX IS LESS THAN SHOWN ON SECTION A-A BY CONSTRUCTING MONOLITHIC SHAFT AS SHOWN IN DETAIL. WHEN D1 IS LESS THAN 48 INCHES SEE NOTE No. 1.
5. THICKNESS OF DECK SHALL VARY WHEN NECESSARY TO PROVIDE A LEVEL PIPE SEAT, BUT SHALL NOT BE LESS THAN VALUES FOR "T" SHOWN IN TABLE.
6. REINFORCING STEEL SHALL HAVE 1-1/2 INCHES CLEAR FROM FACE OF CONCRETE.
7. STEPS SHALL BE 3/4 INCH ROUND GALVANIZED STEEL AND ANCHORED NOT LESS THAN 6 INCHES IN THE WALLS OF THE STRUCTURE. SPACING SHALL BE 1-4 INCHES ON CENTER. THE LOWEST STEP SHALL BE NOT MORE THAN 2'-0" ABOVE THE INVERT.
8. RINGS, REDUCER AND PIPE FOR ACCESS SHAFT SHALL BE SEATED IN 1:2 MORTAR AND NEATLY POINTED OR WIPED INSIDE THE SHAFT.
9. FLOOR OF MANHOLE SHALL BE STEEL TROWELED TO SPRING LINE.
10. BODY OF MANHOLE SHALL BE CONSTRUCTED IN ONE CONTINUOUS OPERATION, EXCEPT THE CONTRACTOR SHALL HAVE THE OPTION OF PLACING A CONSTRUCTION JOINT WITH A LONGITUDINAL KEYWAY AT THE SPRING LINE.
11. CONCRETE: f'c = 3250 p.s.i. AT 28 DAYS.

<b>REVISIONS</b>	<b>CITY OF FOUNTAIN VALLEY</b>	<b>STANDARD PLAN NO.</b>
	<b>JUNCTION STRUCTURE NO. 2</b>	
	<b>306-2</b>	
APPROVED BY:	 <b>MARK LEWIS R.C.E.</b> 49335 CITY ENGINEER	DATE: 06/03/08
		SHEET: 2 OF 6