


D2	F	D2	F
36"	6 1/2"	78"	11 3/4"
39"	7"	84"	12 1/2"
42"	7 1/2"	90"	13 1/4"
45"	7 3/4"	96"	14"
48"	8"	102"	15 1/2"
51"	8 1/2"	108"	16"
54"	9"	114"	16 1/2"
57"	9 1/4"	120"	17"
60"	9 1/2"	126"	17 1/2"
63"	10"	132"	17 1/2"
68"	10 1/4"	138"	17 1/2"
63"	10 1/2"	144"	18"
72"	11"		
75"	11 1/4"		

NOTES

- TABLE OF VALUE for "F" is on this Plan.
- CENTER OF MANHOLE SHAFT shall be located over centerline of storm drain when diameter D1 is 48" or less, in which case place E bars symmetrically around shaft at 45° with centerline and omit J bars.
- DETAIL M: When depth of manhole from street grade to top of box is less than 2'-10 1/2" for paved street or 3'-6" for unpaved street, construct monolithic shaft as per Detail M. Shaft for any depth of manhole may be constructed as per Detail M. When diameter D1 is 48" or less, center of shaft may be located as per Note 2.
- THICKNESS OF DECK shall vary when necessary to provide level pipe seat, but shall not be less than tabular values for F shown on this plan.
- STEPS shall be 3/4" round, galvanized steel and anchored not less than 6 inches in the walls of structure. Unless otherwise shown, the spacing shall be 16" or 17" O.C. The lowest step shall not be more than 2'-6" above the invert.
- RINGS, REDUCER, AND PIPE for access shaft shall be seated in mortar and neatly painted or wiped inside the shaft.
- STATICS of manholes shown on plan apply at center of shaft. Elevation shown at stations refer to prolonged invert grade lines.
- FLOOR of manhole shall be steel-troweled to springing line.
- BODY of manhole shall be poured in one continuous operation, except that a construction joint with a longitudinal keyway may be placed at the springing line.
- LENGTH L AND EMBREMENT P shall have the following values unless otherwise shown on plan. For D2 = 96" or less, L = 5'-6", P = 5" / D2 over 96", L = 6'-0", P = 8". L may be increased or location of manhole shifted to meet pipe ends. When L is greater than that shown above is specified, D bars shall be continued 6" O.C.
- D BARS shall be #4 for D2 = 39" or less, #5 for D2 42" to 84" inclusive and #6 for D2 = 90" or over. Tie bars shall be #3 bars.
- CENTERLINE of inlet pipe to intersect inside face of cone at springing line unless otherwise shown.
- CONCRETE f'c = 3000 p.s.i. at 28 days.

CITY OF SAN BERNARDINO PUBLIC WORKS DEPT.	APPROVED 10-29-87	STANDARD NO.
MANHOLE NO. 2		415
 DIRECTOR OF PUBLIC WORKS/ CITY ENGINEER		