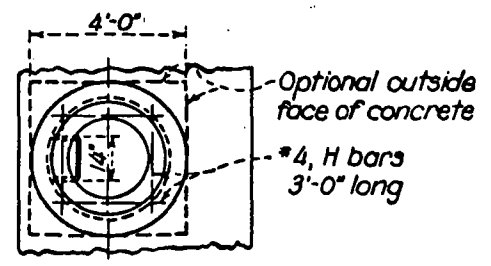
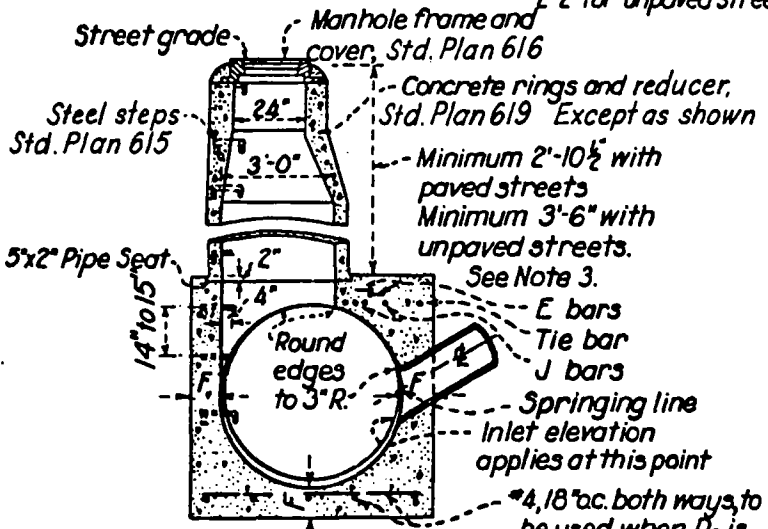


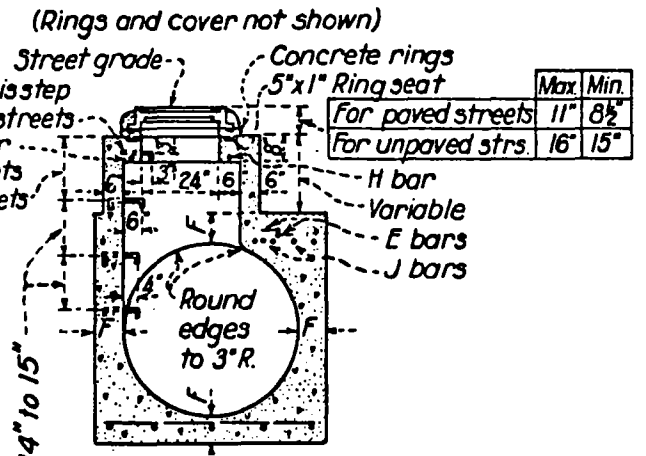
PLAN
(Shaft not shown)



PLAN

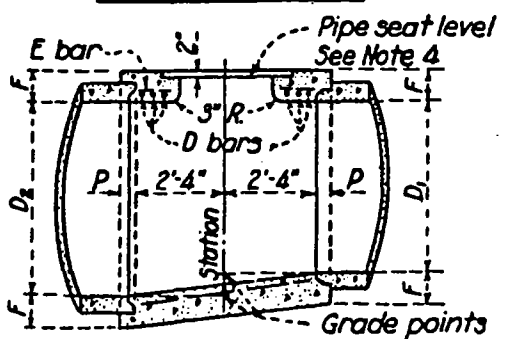


SECTION A-A



DETAIL M
(See Note 3)

D ₂	F	D ₂	F
36"	6 1/2"	78"	11 1/2"
39"	7"	84"	12 1/2"
42"	7 1/2"	90"	13 1/2"
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 1/2"	120"	17"
60"	9 3/4"	126"	17 1/2"
63"	10"	132"	17 3/4"
66"	10 1/2"	138"	17 3/4"
69"	10 3/4"	144"	18"
72"	11"		



SECTION B-B

REVISIONS NO. DATE		CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	STANDARD PLAN NO. 622
1 2 3 4	APPROVED BY: <i>Edward J. Hutz</i> CITY ENGINEER R.E. No. 24233		

NOTES

- 1- TABLE of values for *F* are on this plan.
- 2- CENTER OF MANHOLE SHAFT shall be located over center line of storm drain when diameter D_1 is 48" or less, in which case place *E* bars symmetrically around shaft at 45° with center line and omit *J* bars.
- 3- DETAIL *M*: When depth of manhole from street grade to top of box is less than 2'-10½" 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 D_1 is 48" or less, center of shaft may be located as per note 2.
- 4- 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.
- 5- REINFORCING STEEL shall be ½" clear from face of concrete unless shown otherwise.
- 6- Unless otherwise shown, steps shall be spaced 14" to 15" O.C. The lowest step shall not be more than 2'-6" above the invert.

- 7- STATIONS of manholes shown on plan apply at center of shaft. Elevations shown at stations refer to prolonged invert grade lines.
- 8 - FLOOR of manhole shall be steel-troweled to springing line.
- 9 - 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.
- 10- LENGTH *L* AND EMBEDMENT *P* shall have the following values unless otherwise shown on plan.
 for $D_2 = 36"$ or less, $L = 5'-6"$, $P = 5"$
 D_2 over 36", $L = 6'-0"$, $P = 8"$
L may be increased or location of manhole shifted to meet pipe ends. When *L* greater than that shown above is specified, *D* bars shall be continued 6" o.c.
- 11 - *D* BARS shall be #4 for $D_2 = 39"$ or less, #5 for $D_2 = 42"$ to 84" inclusive and #6 for $D_2 = 90"$ or over. Tie bars shall be #3 bars.

- 12 - Centerline of inlet pipe to intersect inside face of cone at springing line unless otherwise shown.

REVISIONS	CITY OF LONG BEACH, CALIFORNIA DEPARTMENT OF PUBLIC WORKS		STANDARD PLAN NO.
NO. DATE	MANHOLE NO. 2 36" PIPE OR LARGER		622
1	APPROVED BY: <u>Edward J. Pitz</u> CITY ENGINEER R.E. No. 24233		SHEET
2	DATE: <u>6-26-89</u> EX. DATE <u>12-31-89</u>		2 OF 2
3			
4			