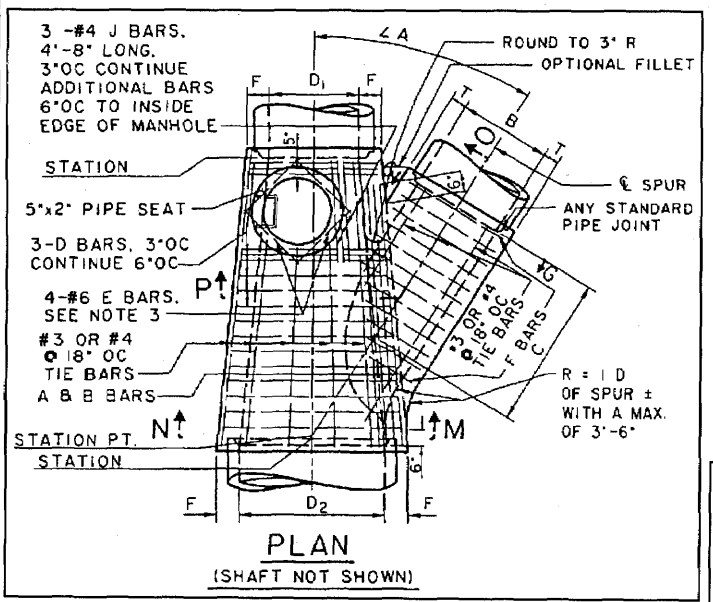

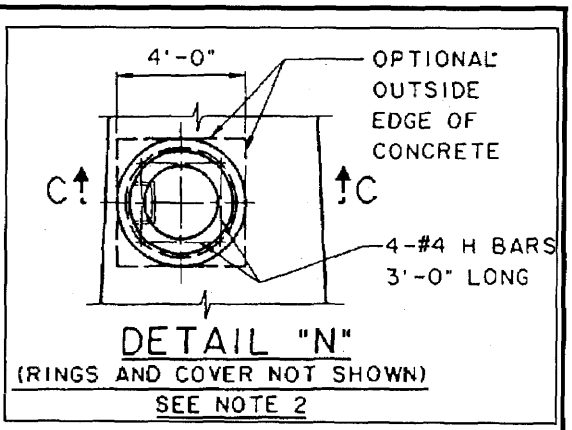

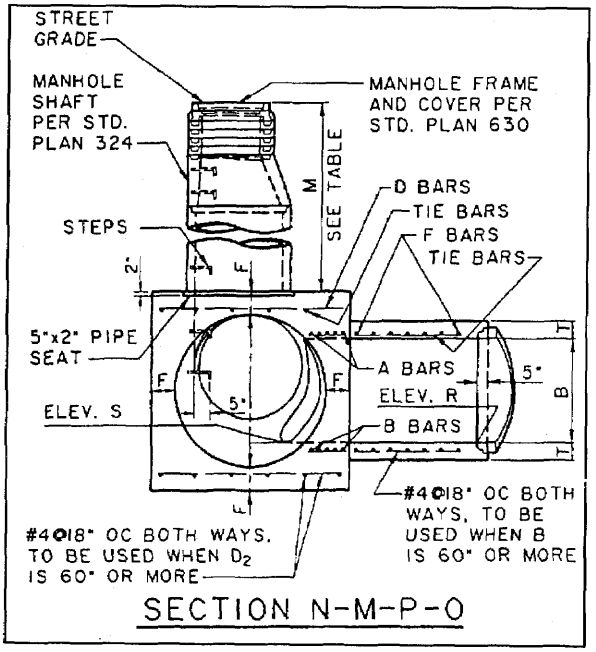

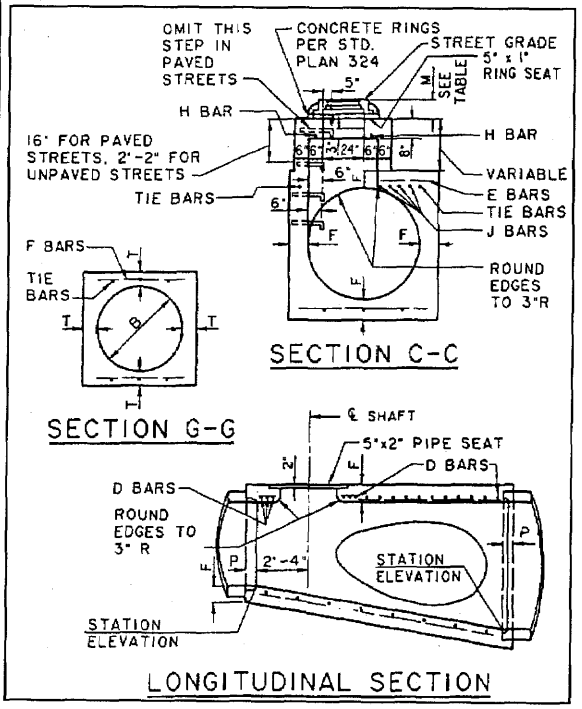

TABLE OF BARS SIZES		
D2 OR B	A & B	D OR F
12"-39"	#5@3"	#4@6"
42"-84"	#6@3"	#5@6"
90"-144"	#7@3"	#6@6"

TABLE OF VALUES FOR M (SEE NOTE 2)				
SECTION	PAVED STREET		UNPAVED STREET	
	MAX.	MIN.	MAX.	MIN.
N-M-P-O		2'-10 1/2"		3'-6"
C-C	11"	8 1/2"	16"	15"

TABLE OF VALUES FOR F			
D_2	F	D_2	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"
63"	10"	132"	17 1/2"
66"	10 1/4"	138"	17 1/2"
69"	10 3/4"	144"	18"
72"	11"		

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

A.P.W.A. STD. No. 322-0

REVISIONS:

APPROVED
08/21/01

CHRIS A. VOGT
CITY ENGINEER
RCE 44250

City of La Quinta

MANHOLE PIPE TO PIPE (LARGE SIDE INLET)

STANDARD

342

SHEET 1 OF 3

NOTES

1. VALUES FOR A, B, C, D_1, D_2, ELEVATION R AND ELEVATION S ARE SHOWN ON THE PROJECT DRAWINGS. ELEVATION S APPLIES AT INSIDE WALL OF STRUCTURE.

2. WHEN DEPTH M FROM STREET GRADE TO THE TOP OF THE BOX IS LESS THAN 2'-10 1/2" FOR PAVED STREETS OR 3'-6" FOR UNPAVED STREETS, CONSTRUCT MONOLITHIC SHAFT PER SECTION C-C AND DETAIL "N". SHAFT FOR ANY DEPTH OF MANHOLE MAY BE CONSTRUCTED PER SECTION C-C. WHEN DIAMETER D_1 IS 48" OR LESS, CENTER OF SHAFT MAY BE LOCATED PER NOTE 3.

3. 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.

4. LENGTH OF MANHOLE MAY BE INCREASED AT OPTION TO MEET PIPE ENDS, BUT ANY CHANGE IN LOCATION OF SPUR MUST BE APPROVED BY THE ENGINEER.

5. P SHALL BE 5" FOR D_2=96" OR LESS AND 8" FOR D_2 OVER 96".

6. REINFORCEMENT SHALL CONFORM TO ASTM A 615, GRADE 40, AND SHALL TERMINATE I 1/2" CLEAR OF CONCRETE SURFACES UNLESS OTHERWISE SHOWN.

7. FLOOR OF MANHOLE SHALL BE STEEL TROWELED TO SPRING LINE.

8. BODY OF MANHOLE SHALL BE POURED IN ONE CONTINUOUS OPERATION EXCEPT THAT A CONSTRUCTION JOINT WITH A LONGITUDINAL KEYWAY MAY BE PLACED AT SPRING LINE.

9. THICKNESS OF THE DECK SHALL VARY WHEN NECESSARY TO PROVIDE A LEVEL SEAT BUT SHALL NOT BE LESS THAN THE TABULAR VALUES OF F SHOWN ON TABLE, SH. I.

10. IF LATERALS ENTER ON BOTH SIDES OF MANHOLE, SHAFT SHALL BE LOCATED ON SIDE RECEIVING THE SMALLER LATERAL.

11. STEPS SHALL CONFORM TO STANDARD PLAN 635 OR 636. UNLESS OTHERWISE SHOWN, STEPS SHALL BE UNIFORMLY SPACED 14" TO 15" OC. THE LOWEST STEP SHALL NOT BE MORE THAN 24" ABOVE THE INVERT.

12. THE FOLLOWING CRITERIA SHALL BE USED FOR THIS MANHOLE:

    A. THIS STANDARD PLAN IS USED WHEN C.L.Q. STD. No. 340 IS INADEQUATE. MAIN LINE = 36" INSIDE DIAMETER OR LARGER.

    B. LATERAL = 12" TO 144" INSIDE DIAMETER: HOWEVER, THE INSIDE DIAMETER SHALL NOT EXCEED THE INSIDE DIAMETER OF THE MAIN LINE.

A.P.W.A. STD. No. 322-0

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MANHOLE FRAME AND COVER SHALL CONFORM TO STANDARD PLAN 630 UNLESS OTHERWISE SHOWN.

MANHOLE SHAFT SHALL CONFORM TO STANDARD PLAN 324 UNLESS OTHERWISE SHOWN.

WHERE A MANHOLE SHAFT - 36-INCH WITHOUT REDUCER IS SPECIFIED REFER TO STANDARD PLAN 326.

WHERE A PRESSURE MANHOLE SHAFT - WITH ECCENTRIC REDUCER IS SPECIFIED REFER TO STANDARD PLAN 328.

WHERE A PRESSURE MANHOLE SHAFT - 36-INCH WITHOUT IS SPECIFIED REFER TO STANDARD PLAN 329.

THE FOLLOWING A.P.W.A. STANDARD PLANS ARE INCORPORATED HEREIN BY REFERENCE:

324	MANHOLE SHAFT - WITH ECCENTRIC REDUCER
326	MANHOLE SHAFT - 36-INCH WITHOUT REDUCER
328	PRESSURE MANHOLE SHAFT - WITH ECCENTRIC
329	PRESSURE MANHOLE SHAFT - 36-INCH WITHOUT REDUCER
630	24-INCH MANHOLE FRAME AND COVER
633	36-INCH MANHOLE FRAME AND COVER
635	STEEL STEP
636	POLYPROPYLENE PLASTIC STEP

A.P.W.A. STD. No. 322-0

REVISIONS:

APPROVED 08/21/01 CHRIS A. VOGT CITY ENGINEER RCE 44250	City of La Quinta **MANHOLE PIPE TO PIPE (LARGE SIDE INLET)**	STANDARD 342 SHEET 3 OF 3