

SECTION B-B

SECTION A-A

PIPE BEDDING - FLEXIBLE JOINTS DETAIL

TABLE "E"

Dm	H=20' OR LESS			H>GREATER THAN 20' BUT LESS THAN 35'		
	NON-REINF. CONCRETE	REINFORCED CONCRETE		NON-REINF. CONCRETE	REINFORCED CONCRETE	
	T	T	REINF.	T	T	REINF.
4'00"	9"	9"	NONE	16"	12"	Ø 4 at 8"
4'50"	13"	10"	Ø 4 at 8"	19"	12"	Ø 5 at 6"
5'00"	15"	10"	Ø 5 at 8"	22"	12"	Ø 6 at 7"
5'25"	17"	12"	Ø 5 at 8"	23"	15"	Ø 5 at 6"
5'50"	17"	12"	Ø 5 at 8"	25"	15"	Ø 6 at 7"
6'00"	18"	12"	Ø 5 at 7"	27"	15"	Ø 6 at 6"

TABLE "F"

Dp	DISTANCE "X"				
	Dm=4.50'	Dm=5.00'	Dm=5.25'	Dm=5.50'	Dm=6.00'
18"	2.05'	2.33'	2.46'	2.59'	2.86'
21"	2.00'	2.27'	2.40'	2.54'	2.81'
24"		2.19'	2.33'	2.47'	2.75'
27"		2.09'	2.24'	2.40'	2.67'
30"		2.00'	2.15'	2.31'	2.60'
33"			2.04'	2.20'	2.51'
36"				2.10'	2.42'
39"					2.29'
42"					2.16'

DEPARTMENT OF PUBLIC WORKS

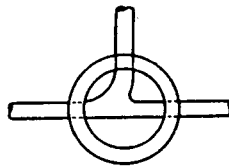
BUREAU OF ENGINEERING

CITY OF LOS ANGELES

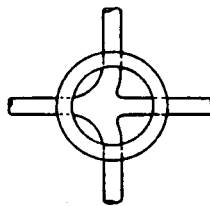
SEWER MANHOLES - GENERAL

STANDARD PLAN S-140-0

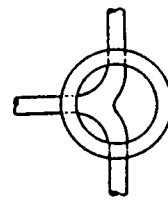
SUBMITTED FEB 3 1976	REVISIONS				SUPERSEDES	REFERENCES
	NO	DATE	DESCRIPTION	DIVISION ENGINEER		
<i>[Signature]</i> ENGINEER						S-141 S-142
<i>[Signature]</i> ENGINEER						
APPROVED FEB 1 1976 <i>[Signature]</i> ENGINEER						
DESIGNED BY WRR	DRAWN BY NB	CHECKED BY WRR				VAULT INDEX NUMBER B-3864
						SHEET 1 OF 2 SHEETS



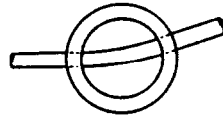
MHF



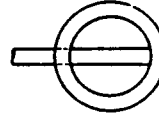
MHG



MHH



MHB



MHQ

SEWER MANHOLE DESIGNATION

NOTES:

1. MANHOLE STATION SHALL BE THE CENTER POINT OF THE MANHOLE BOTTOM. WHEN A LATERAL DOES NOT INTERSECT THE MANHOLE AT THE STATION POINT, ANGLES "A" AND "B" AND LENGTHS "a" AND "c" SHALL BE AS SPECIFIED ON THE PLANS.
2. THE INTERIOR MANHOLE CHANNEL CONFIGURATION SHALL BE BUILT TO CONFORM TO THE SEWER MANHOLE DESIGNATION INDICATED ON THE PLANS.
3. THE INSIDE DIAMETER, D_m , OF THE LOWER PORTION OF THE MANHOLE SHALL BE 4 FEET UNLESS OTHERWISE SPECIFIED ON THE PLANS. WHERE THE DIAMETER, D_m , EXCEEDS 4 FEET, THE DIAMETER SHALL BE DESIGNATED FOLLOWING THE MANHOLE DESIGNATION. FOR EXAMPLE: MHB-4.5'.
4. THE TOP OF THE SHELVES AT THE MANHOLE WALL SHALL BE AT THE SOFFIT ELEVATION OF THE ADJOINING SEWER PIPE. THE MAXIMUM DIFFERENCE IN ELEVATION OF THE SHELVES ALONG THE EDGES OF THE MAIN CHANNEL SHALL NOT EXCEED 6 INCHES.
5. CHANNELS SHALL BE SMOOTH WITH NO SHARP ANGLES OR PROJECTIONS. THE RADII OF CURVED CHANNELS SHALL BE AS LARGE AS POSSIBLE. WHERE PRACTICABLE, THE CURVE SHALL BE TANGENT TO THE ADJOINING SEWER. CHANNEL INVERTS SHALL BE STEEL TROWELLED TO PRODUCE A HARD SURFACE OF MAXIMUM DENSITY AND SMOOTHNESS.
6. MANHOLES WITH THE LARGEST PIPE SIZE OF 21 INCHES OR LESS SHALL BE CONSTRUCTED WITH A 27-INCH FRAME AND COVER. WITH SEWER PIPES 24 INCHES AND LARGER, MANHOLE SHALL BE CONSTRUCTED WITH A 30-INCH FRAME AND COVER. THE INSIDE DIAMETER OF THE MANHOLE AT THE TOP SHALL BE THE SAME AS THE INSIDE DIAMETER OF THE BASE OF THE MANHOLE FRAME TO BE INSTALLED THEREON.
7. WHERE BELL AND SPIGOT PIPE IS USED, THE BELL SHALL NOT BE INCORPORATED IN THE MANHOLE WALL. THE SEALING COMPONENT SHALL BE REMOVED FROM THE SPIGOT END OF THE PIPE TO BE PLACED IN THE MANHOLE WALL.
8. THE MANHOLE BOTTOM SHALL CURE AT LEAST 24 HOURS BEFORE COMMENCING ANY ADDITIONAL WORK. IF CLASS 660-B-3750 OR STRONGER CONCRETE IS USED, ADDITIONAL WORK MAY COMMENCE AFTER 16 HOURS.
9. FOR SEWER PIPES 15 INCHES OR SMALLER THE END OF THE PIPE TERMINATING IN THE MANHOLE SHALL BE FLUSH WITH THE INTERIOR SURFACE OF THE MANHOLE WALL AT THE CENTER LINE OF THE PIPE. FOR SEWER PIPES 18 INCHES OR LARGER THE MANHOLE WALL DIRECTLY ABOVE AND BELOW THE PIPE SHALL BE FLAT AND FLUSH WITH THE PIPE END. IF THE ALIGNMENT IS NOT RADIAL TO THE MANHOLE, THE PIPE END TERMINATING IN THE MANHOLE SHALL BE BEVELED. PIPE END BEVELING SHALL BE DONE BY SAW CUTTING.
10. A WATERSTOP OF A TYPE RECOMMENDED BY THE PIPE MANUFACTURER AND APPROVED BY THE ENGINEER SHALL BE PLACED ON ALL THERMO-PLASTIC PIPE CONNECTIONS ENCASED IN THE MANHOLE WALLS. THE CLEAR DISTANCE BETWEEN THE EDGE OF THE WATERSTOP AND THE INSIDE FACE OF THE MANHOLE WALL SHALL BE 2 INCHES. THE WATERSTOP MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE PIPE GASKET MATERIAL.