

# NOTES

- 1 Table of values for "F" are on this page.
- 2 Center of manhole shaft shall be located over center line of Storm Drain when diameter D1 is 48" or less, in which case place E base symmetrically around shaft at 45 degrees with centerline and omit J bars.
- 3 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.
- 4 Thickness of deck shall vary when necessary to provide level pip seat, but shall not be less than tabular values for "F" shown on this plan.
- 5 Reinforcing steel to be 1 1/2" clear from face of concrete unless shown otherwise.
- 6 Injection molded CoPolymer Polypropylene Manhole Step, cast in place, center over the flowline.
- 7 Rings, reducer and pipe for access shaft shall be seated in mortar and neatly pointed or wiped inside the shaft.
- 8 Stations of manholes shown on plan apply at center of shaft. Elevations shown at stations refer to prolonged invert grade line.
- 9 Floor of manhole shall be steel-troweled to Spring Line.
- 10 Body of manhole shall be poured in one continuous operation, except that a construction joint with a longitudinal keyway may be placed at the Spring Line.
- 11 Length "L" and embedment "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.
- 12 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.
- 13 Concrete shall be Class 560-C-3250 Per Seciton 201 S.S. PWC.
- 14 Centerline of inlet pipe to intersect inside face of cone at Spring Line unless otherwise shown.
- 15 Manhole cover shall be marked with the letter 'D' as manufactured by Alhambra Foundry or approved equal.

TABLE OF VALUES FOR "F"

D2	F	D2	F	D2	F	D2	F	D2	F
36"	6 1/2"	54"	9"	72"	11"	108"	16"	144"	18"
39"	7"	57"	9 1/4"	78"	11 3/4"	114"	16 1/2"		
42"	7 1/2"	60"	9 1/2"	84"	12 1/2"	120"	17"		
45"	7 3/4"	63"	10"	90"	13 1/4"	126"	17"		
48"	8"	66"	10 1/4"	96"	14"	132"	17 1/2"		
51"	8 1/2"	69"	10 3/4"	102"	15 1/2"	138"	17 1/2"		



APPROVED BY: <i>John P. Sullivan</i>				
JOHN P. SULLIVAN		24079 8/08/06		
CITY ENGINEER		RCE DATE		
RECOMMENDED: <i>Jim Min Mach</i>				
33340 8/07/06				
ASSISTANT CITY ENGINEER		RCE DATE		
REV	DESCRIPTION	BY	APP'D	DATE

CITY OF ONTARIO

MANHOLE NO 2  
NOTES

STANDARD  
DRAWING  
NUMBER

3009