

			TABLE	OF DIME	SNOIS!	AND REIN	OF DIMENSIONS AND REINFORCING BARS	RS			7,000,000		
	DEPTH			DIMEN	DIMENSIONS					REINFORCING	CING BARS	RS	
בים וויים	VNI OT	∢	В	ပ	۵	Ш	△ (MAX)	" J "	: :	1	- n	. ' V ''	*
40"	UP TO 30'	ā	1.5	12"	-	4'-0"	15°	9#-8	9@9#	#5@12	#4@6	#4@6	#4@6
40	31' TO 50'	0	٥	15"	o	4'-0"	15°	3-#7	#7@6	#6@12	#4@6	#5@6	#5@6
	OF GI	à	13	15"	ű	4'-0"	10°	c ţ	#7@6	#10012	#4@6	#5000	#E
H = 12	5	o	5	2	0	4'-4"	15°	/# - 0	 	7 (2)		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0
00 01	, F	ā	į	Ĉ		4'-0"	100	0	J (6) O#	0.00	#U @ U	000	000
	000	0	0	<u>o</u>	0	4'4	15°	ر ا ا ا ا	000	71 @0#	o@);#		omo#
		Ş	1	,	Ē	40"	100	1	#7@6	#F (%)	360	969	96
107 OF 1100	5	2	_	2	•	4'-8"	12,	‡ +	9	7 @0#	9	0	00000
7/ 01 69	74 OF 146		11.7	.0	ř	4'-0"	10°	07	3600#	#6@13	#5@6	3602#	#7@6
	2	2		2	•	4'-8"	15°	4 - #0	മത്താ#	71 @O#	ത്തറ#) *	o@)/#
	OF 01	5	11/2	707	ŗ	4'-0"	8ه	2#-4	47@6	#6.004.2	36.3#	9609#	969#
7E" TO 94"	20. 70	2	`	0	,	4'-10"	15°	2 + 47	#/@0	7 mc#	0300+	ത്താ#	0000#
5	34' TO 60'	,	""	,01	1.	4'-0"	8°	4 - #8	3@O#	#6@12	969#	9800#	#7@6
	5	2	,	2	,	4'-10"	15°	6#-9	n 20000	7: @C#	റത്തറ#	o∰0#	O 20 /#
	11B TO 30'	101	ľά	ă	0	4'-0"	οĹ	4 - #8	3@a#	C1@3#	565#	#7@6	#7@6
"90 OT "00	5	y	2	2	o	5'-2"	15°	2 - #8	0 ∰0±	# (5)) (A)) }) È)
	31' TO 50'	2,	ã	,,,,,,	ă	4'-0"	70	4 - #9	960#	#6@12	969#	(j) (j) (j)	9@8#
	5	7	o 	70	0	5'-2"	15°	5 - #9	#3@0	#0@14	0.300±	0300#)) (*)

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY OFFICE OF CHIEF ENGINEER

STEPHEN R. MAGUIN CHIEF ENGINEER

STANDARD MANHOLE, TYPE "B"

STANDARD DRAWING 2006 EDITION S - a - 2 0 2

SHEET 2 OF 3

NOTES:

- 1. ALL MANHOLES SHALL BE PROVIDED WITH A STANDARD PULL RING IN ACCORDANCE WITH S-a-220. THE PULL RING SHALL BE LOCATED 6" ABOVE THE SOFFIT ON THE UPSTREAM SIDE OF THE MANHOLE AND ALONG THE AXIS OF THE DOWNSTREAM OUTLET. WHERE THE MANHOLE IS TO BE USED AS A DOWNSTREAM SIPHON MANHOLE, IT SHALL BE PROVIDED WITH AN ADDITIONAL STANDARD PULL RING, BUT LOCATED 6" ABOVE THE SOFFIT ON THE DOWNSTREAM SIDE OF THE MANHOLE AND ON THE CENTERLINE OF THE UPSTREAM SIPHON PIPE.
- 2. MANHOLE STEPS SHALL BE IN ACCORDANCE WITH S-a-209 AND SHALL BE UNIFORMLY SPACED NOT MORE THAN 16" APART. THE TOP STEP SHALL BE PLACED WITHIN 16" BELOW THE MANHOLE FRAME. THE BOTTOM MANHOLE STEP SHALL BE PLACED WITHIN 16" ABOVE THE TOP OF THE PIPE. THE MANHOLE STEP SHALL PROJECT 5". THE MANHOLE STEPS SHALL BE PLACED SUCH THAT THEY ARE ADJACENT TO BUT NOT INTERFERING WITH ACCESS TO THE PULL RING.
- 3. THE MANHOLE SHALL BE PROVIDED WITH PLASTIC LINER WITH LOCKING EXTENSIONS. THE PLASTIC LINER AND THE PLASTIC LINER INSTALLATION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE LINER SHALL EXTEND FROM THE BOTTOM OF THE ADJUSTING RINGS TO A POINT IN THE CHANNEL MATCHING THE BOTTOM OF THE LINER IN THE LINED PIPE. LINER RETURNS SHALL BE PROVIDED WHERE THE LINER TERMINATES AT THE ADJUSTING RING. THE JOINT BETWEEN THE LINER AND THE STAINLESS STEEL STEPS AND PULL RINGS SHALL BE THOROUGHLY SEALED WITH MASTIC SEAM MATERIAL AS MANUFACTURED BY LINABOND INC., SYLMAR, CALIFORNIA (818) 362-7373, OR EQUAL. APPLICATION OF SEALANT AND PREPARATION OF SURFACES SHALL BE IN STRICT CONFORMANCE WITH THE MANUFACTURER'S DIRECTIONS.
- 4. UNLESS OTHERWISE SPECIFIED, ALL CONCRETE SHALL BE 660-B-4000 AND ALL REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO ASTM-A706 GRADE 60.
- 5. A 12" WIDE BY 12" HIGH CONCRETE RING SHALL BE PROVIDED AROUND THE MANHOLE FRAME. IN UNPAVED AREAS, THE CONCRETE RING SHALL BE PROVIDED WITH #3 REBAR. 30 DIAMETER LAP.
- 6. EXCEPT AS NOTED HEREON, THE PRECAST UNITS SHALL BE MANUFACTURED AND TESTED IN ACCORDANCE WITH ASTM C478. THE CURING OF THE PRECAST UNITS SHALL CONFORM TO SECTION 207-2.7 OF THE STANDARD SPECIFICATIONS. AS AN ALTERNATE, THE UNITS MAY BE CURED USING SATURATED STEAM FOR A MINIMUM OF 12 HOURS FOLLOWED BY 6 DAYS OF WATER CURING OR MEMBRANE CURING. IF THE UNITS ARE CURED BY THE ALTERNATE METHOD, THEY SHALL NOT BE SHIPPED PRIOR TO 8 DAYS AFTER CASTING NOR UNTIL THE CONCRETE HAS ATTAINED A MINIMUM STRENGTH OF 4,000 PSI. THE RISER SECTIONS MAY BE REINFORCED OR UNREINFORCED. REINFORCED SECTIONS SHALL HAVE A MINIMUM WALL THICKNESS OF 5" AND UNREINFORCED SECTIONS SHALL HAVE A MINIMUM WALL THICKNESS OF 6". JOINTS SHALL BE TONGUE AND GROOVE AND SHALL BE ASSEMBLED USING CLASS "B" MORTAR. THE MORTARED JOINTS SHALL BE FLUSH AND TROWELED SMOOTH.

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY OFFICE OF CHIEF ENGINEER

STEPHEN R. MAGUIN CHIEF ENGINEER

STANDARD MANHOLE, TYPE "B"

STANDARD DRAWING 2006 EDITION

S-a-202

SHEET 3 OF 3