



BUREAU OF ENGINEERING		DEPARTMENT OF PUBLIC WORKS				CITY OF LOS ANGELES	
JUNCTION STRUCTURE "C"					STANDARD PLAN S-303-0		
SUBMITTED <i>June 27, 1972</i>		REVISIONS				SUPERSEDES	REFERENCES
<i>Clyde M. Albright</i> ENGINEER OF DESIGN		NO.	DATE	DESCRIPTION	ENGR OF DESIGN	CITY ENGR	B-1832
<i>Robert S. Stein</i> DEPUTY ENGINEER							
APPROVED <i>July 17, 1972</i>							
<i>Dona L. L. L. L.</i> CITY ENGINEER							
DESIGNED BY	DRAWN BY	CHECKED BY					Vault Index Number B-3078
LIE	RGM	LJM					SHEET 1 OF 2 SHEETS

NOTES FOR JUNCTION STRUCTURE "C"

1. CONCRETE SHALL BE CLASS 560-C-3250 PER SECTION 201 OF THE STANDARD SPECIFICATIONS.
2. DIMENSIONS:
 - A. SEE PROJECT PLANS FOR VALUES OF A, B, C, D₁, D₂, E, L, ELEVATION "R", ELEVATION "S" AND MAINLINE STATIONS AND ELEVATIONS.
 - B. THE LENGTH OF DIMENSIONS "C", "E", AND "L" MAY BE INCREASED AT THE OPTION OF THE CONTRACTOR TO MEET PIPE ENDS, PROVIDED PRIOR APPROVAL IS OBTAINED FROM THE ENGINEER PURSUANT TO SECTION 3-1 OF THE STANDARD SPECIFICATIONS.
 - C. ELEVATION "S" OCCURS AT THE INTERSECTION OF THE CENTERLINE OF THE MAIN LINE AND LATERAL ON THE PROLONGATION OF THE INVERT GRADE OF THE LATERAL. WHEN ELEVATION "S" IS NOT INDICATED ON THE PROJECT PLANS, THE LATERAL ENTERS THE MAIN LINE RADIALLY. WHEN ELEVATION "R" IS NOT INDICATED ON THE PROJECT PLANS, THE CONSTRUCTION GRADIENT BETWEEN THE STATION POINT (ELEVATION "S") AND THE FIRST ELEVATION SHOWN ON THE PROJECT PLANS UPSTREAM OF THE STATION POINT (ELEVATION "S") IS CONSTANT.
3. REINFORCEMENT SHALL CONFORM TO SECTION 201-2 OF THE STANDARD SPECIFICATIONS, AND TO DETAILS AND SCHEDULES SHOWN IN THE REINFORCEMENT SCHEDULE SHOWN HEREON:
 - A. "A", "B", AND "F" BARS REFER TO DIMENSION "B";
 - B. "C" AND "G" BARS REFER TO DIMENSION "D₂";
 - C. "COVER" MEANS THE DIFFERENCE IN VERTICAL ELEVATION BETWEEN THE TOP OF THE STRUCTURE AND THE SURFACE GRADE ABOVE;
 - D. TIE BARS SHALL BE NO. 4 AT 18 INCHES;
 - E. REINFORCEMENT SHALL BE PLACED 1-1/2 INCHES CLEAR FROM THE INSIDE FACE OF CONCRETE EXCEPT AS OTHERWISE SHOWN HEREON;
 - F. WALL AND SLAB THICKNESS (T) SHALL BE AS SHOWN HEREON;
 - G. FOR "B" GREATER THAN 72 INCHES OR D₂ GREATER THAN 96 INCHES, SEE PROJECT PLANS.
4. A STEEL TROWEL SURFACE SHALL BE PROVIDED FOR THE CONCRETE FLOOR OF THE STRUCTURE AND TO THE CONCRETE SIDES FROM THE INVERT TO THE SPRING LINE.
5. CONCRETE FOR THE STRUCTURE, INCLUDING THE LATERAL(S) SHALL BE PLACED IN ONE CONTINUOUS OPERATION, EXCEPT THAT THE CONTRACTOR MAY AT HIS OPTION PLACE AT THE SPRING LINE A CONSTRUCTION JOINT WITH A LONGITUDINAL KEYWAY MEASURING NOT LESS THAN HALF THE WALL THICKNESS IN BOTH HEIGHT AND WIDTH.
6. STATIONING APPLICABLE TO THIS STRUCTURE APPLY ALONG THE CENTER LINES OF THE MAIN LINE AND THE LATERAL(S). THE STATION POINT IS AT THE INTERSECTION OF THE CENTER LINES OF THE MAIN LINE AND LATERAL(S). ELEVATION "S" IS ON THE PROLONGATION OF THE LATERAL(S) INVERT GRADE AT THE STATION POINT.
7. WHERE LATERALS ENTER ON BOTH SIDES OF THE STRUCTURE, THEY SHALL BE DESIGNATED ON THE PROJECT PLANS AS RIGHT OR LEFT, FACING IN THE DIRECTION OF STATIONING.

STRUCTURAL DATA								
DIMENSION B OR D ₂	DIMENSION F OR T	A & B BARS		C BARS		F BARS	G BARS	
		COVER		COVER		COVER		
INCHES	INCHES	3'-10'	1'-3' 10'-20'	1-15'	15-20'	1-20'		
12	4	#3 @ 6"	#3 @ 4 1/2"	#4 @ 6"	#4 @ 6"	#4 @ 6"	---	
15	4 1/4	↑	↑	↑	↑	↑	---	
18	4 1/2						---	
21	5	#3 @ 6"	#3 @ 4 1/2"				---	
24	5 1/4	#4 @ 6"	#5 @ 5 1/2"				---	
27	5 1/2	↑	↑				---	
30	6						---	
33	6 1/4						---	
36	6 1/2	↓	↓				---	
39	7	#4 @ 6"	#5 @ 5 1/2"	#4 @ 6"	#4 @ 6"		---	
42	7 1/2	#5 @ 5 1/2"	#6 @ 4"	#5 @ 6"	#5 @ 6"	#4 @ 6"	---	
45	7 3/4	↑	↑			#5 @ 6"	---	
48	8						---	
51	8 1/2						---	
54	9						---	
57	9 1/4	↓	↓				---	
60	9 1/2	#5 @ 5 1/2"	#6 @ 4"				#4 @ 18"	
63	10	#5 @ 4"	#6 @ 3"				↑	
66	10 1/4	↑	↑				---	
69	10 3/4						---	
72	11	#5 @ 4"	#6 @ 3"			#5 @ 6"	---	
75	11 1/2	SEE PROJECT PLANS						
78	11 3/4							
81	12							
84	12 1/2					#5 @ 6"		
87	12 3/4					#5 @ 5"		
90	13 1/4						---	
93	13 1/2						---	
96	14			#5 @ 6"	#5 @ 5"		#4 @ 18"	