



BUREAU OF ENGINEERING		DEPARTMENT OF PUBLIC WORKS		CITY OF LOS ANGELES	
<b>CURBSIDE GRATING BASIN</b>				<b>STANDARD PLAN S-354-0</b>	
SUBMITTED <i>June 19, 1972</i> <i>Clifford B. Allright</i> ENGINEER OF DESIGN <i>Robert S. Davis</i> DEPUTY ENGINEER		REVISIONS NO. DATE DESCRIPTION ENG'R OF DESIGN CITY ENG'R.		SUPERSEDES	REFERENCES
APPROVED <i>June 22, 1972</i> <i>Donald Hillman</i> CITY ENGINEER				B-1537	S-311 S-312 S-331 S-342 S-348 S-410
DESIGNED BY	DRAWN BY	CHECKED BY		VAULT INDEX NUMBER B-3973	
LIE	RGM	LM		SHEET 1 OF 2 SHEETS	

NOTES FOR CURBSIDE GRATING BASIN

1. THE BASIN SHALL BE CONSTRUCTED WITH ONE GRATING UNLESS OTHERWISE INDICATED ON THE PROJECT PLANS.
2. INSTALL FRAME AND GRATING IN THE PLANE OF THE GUTTER. FRAMES AND GRATINGS SHALL CONFORM TO STANDARD PLAN S-342. WHEN MORE THAN ONE GRATING IS SPECIFIED ON THE PROJECT PLANS, INSTALL A CENTER SUPPORT ASSEMBLY CONFORMING TO STANDARD PLAN S-342 BETWEEN ADJACENT FRAMES.
3. CONCRETE SHALL BE THE CLASS SPECIFIED IN SECTION 201 OF THE STANDARD SPECIFICATIONS. SURFACE OF ALL EXPOSED CONCRETE SHALL CONFORM IN SLOPE, GRADE, COLOR, FINISH, AND SCORING TO EXISTING OR PROPOSED CURB ADJACENT TO THE BASIN.
4. ALL CURVED CONCRETE SURFACES SHALL BE FORMED BY CURVED FORMS AND SHALL NOT BE SHAPED BY PLASTERING.
5. THE FLOOR OF THE BASIN SHALL BE GIVEN A STEEL TROWEL FINISH AND SHALL HAVE A LONGITUDINAL AND LATERAL SLOPE OF 1:12 EXCEPT WHERE THE GUTTER GRADE EXCEEDS 8 PERCENT, IN WHICH CASE THE LONGITUDINAL SLOPE OF THE FLOOR SHALL BE THE SAME AS THE GUTTER GRADE. SLOPE FLOOR FROM ALL DIRECTIONS TO THE OUTLET.
6. DIMENSIONS:
  - B = 2 FEET 1-1/2 INCHES
  - V = 4.5 FEET, WHERE CATCH BASINS ARE IN SERIES, "V<sub>0</sub>" SHALL BE THE DEPTH TO THE INVERT OF THE INLET PIPE, AND "V" SHALL BE THE DEPTH TO THE INVERT OF THE OUTLET PIPE.
  - W = 2 FEET 11-3/8 INCHES FOR ONE GRATING. ADD 3 FEET 5-3/8 INCHES FOR EACH ADDITIONAL GRATING.
  - A = THE ANGLE, IN DEGREES, INTERCEPTED BY THE CENTERLINE OF THE CONNECTOR PIPE AND THE CATCH BASIN WALL TO WHICH THE CONNECTOR PIPE IS ATTACHED.
  - T - SEE STRUCTURAL DATA HEREON.
7. PLACE CONNECTOR PIPES AS INDICATED ON THE PROJECT PLANS. UNLESS OTHERWISE DETAILED ON THE PROJECT PLANS, A CONNECTOR PIPE CENTERLINE SHALL INTERSECT THE MID POINT OF THE INSIDE FACE OF THE INDICATED CATCH BASIN WALL, OR IF INDICATED AT A CORNER, IT SHALL INTERSECT THE INSIDE CORNER. THE PIPE MAY BE CUT AND TRIMMED AT A SKEW NECESSARY TO INSURE MINIMUM 3 INCH PIPE EMBEDMENT, ALL AROUND, WITHIN THE CATCH BASIN WALL, AND 3 INCH RADIUS OF ROUNDING OF STRUCTURE CONCRETE, ALL AROUND, ADJACENT TO PIPE ENDS. A MONOLITHIC CONNECTION PER STANDARD PLAN S-331 SHALL BE USED TO JOIN THE CONNECTOR PIPE TO THE CATCH BASIN WHENEVER ANGLE "A" IS LESS THAN 70 DEGREES OR GREATER THAN 110 DEGREES, OR WHENEVER THE CONNECTOR PIPE IS LOCATED IN A CORNER. THE OPTIONAL USE OF A MONOLITHIC CONNECTION IN ANY CASE IS PERMITTED. MONOLITHIC CONNECTIONS MAY BE EXTENDED UP TO 4 FEET IN LENGTH TO AVOID CUTTING STANDARD LENGTHS OF PIPE. CONNECTOR PIPE MAY NOT BE CUT FOR ANY REASON EXCEPT TO AVOID CONSTRUCTION OF A MONOLITHIC CONNECTION.
8. STEPS SHALL CONFORM TO STANDARD PLAN S-348.
9. ANCHORS SHALL CONFORM TO STANDARD PLAN S-342, AND SHALL BE INSTALLED AS SHOWN HEREON.
10. REMOVE INTERFERING PORTIONS OF EXISTING GUTTER AND PAVEMENT AND CONSTRUCT GUTTER TRANSITIONS CONFORMING TO STANDARD PLAN S-311 AND REMODEL PAVEMENT TO CONFORM TO STANDARD PLAN S-312.
11. ALL CONSTRUCTION JOINTS SHALL HAVE ROUGH SURFACES. (SEE SECTION 303-1.8.6 OF THE STANDARD SPECIFICATIONS.)
12. REMOVE INTERFERING PORTIONS OF EXISTING CURB AND GUTTER, AND REPLACE WITH CURB IDENTICAL TO ADJOINING CURB. WHERE CURBS ARE NOT SPECIFIED ON THE PROJECT PLANS AND NO CURBS ADJOIN THE BASIN, CURBS SHALL BE CONSTRUCTED OVER THE BASIN CONFORMING TO TYPE "A" CURB AS SHOWN ON STANDARD PLAN S-410. CURB SHALL BE CONSTRUCTED MONOLITHICALLY WITH THE BASIN.
13. THE CONTRACTOR MAY, AT HIS OPTION, CONSTRUCT THE CURB SEPARATELY FROM THE BASIN PROVIDED HE INSTALLS A 1'-0" LONG #4 DOWEL @ 1'-6" O.C. ALONG THE CURB BETWEEN THE CURB AND THE BASIN.