DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5,10,60,90,101+ 105,134,170,405,605	Var	333	1697

REGISTERED CIVIL ENGINEER 5-15-03

2-2-04
PLANS APPROVAL DATE

WING-YAN LEE No. 61452 Exp. 6-30-05 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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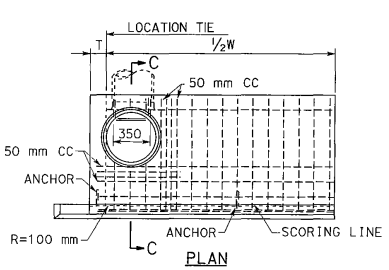
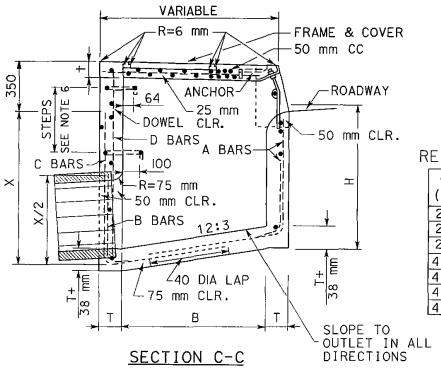
Caltrans Metric

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	PROJECT ENGINEER	CALCULATED/DESIGNED BY	CHECKED BY	DATE	REVISED BY	DATE REVISED
Caltrans HYDRAULICS	WING-YAN LEE	ROMULO ROBENIO WING-YAN LEE	WING-YAN LEE			



PLAN

TYPE C40 (MODIFIED)

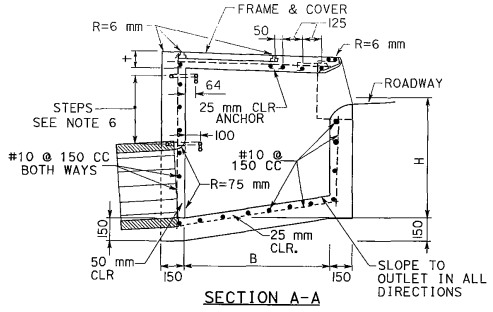


SECTION C-C

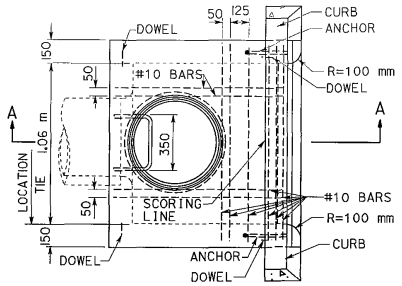
TOP		
B	†	BOTH WAYS
0.97 m TO 1.22 m	114 mm	#10 @ 150 mm
1.22 m TO 1.83 m	125 mm	#10 @ 125 mm

REINFORCEMENT FOR TYPE C40 (MOD) WITH W=2.1 m OR 4.3 m

W (m)	H (m)	T (mm)	FRONT WALL HORIZ(mm)	FRONT WALL VERT(mm)	REAR & END WALLS HORIZ(mm)	REAR & END WALLS VERT(mm)	FLOOR BOTH WAYS(mm)
2.1	TO 1.1	150	#10 @ 150	#10 @ 150	#10 @ 150	#10 @ 150	#10 @ 150
2.1	1.1 TO 2.4	200	#13 @ 300	#13 @ 300	#13 @ 300	#13 @ 300	#13 @ 300
2.1	2.4 TO 3.7	250	#13 @ 250	#13 @ 250	#13 @ 250	#13 @ 250	#13 @ 250
4.3	TO 1.2	150	#10 @ 150	#10 @ 150	#10 @ 150	#10 @ 150	#10 @ 150
4.3	1.2 TO 2.4	200	#13 @ 300	#13 @ 300	#13 @ 300	#13 @ 300	#13 @ 300
4.3	2.4 TO 3.0	250	#13 @ 200	#13 @ 200	#13 @ 200	#13 @ 200	#13 @ 200
4.3	3.0 TO 3.7	250	#13 @ 150	#13 @ 150	#13 @ 150	#13 @ 150	#13 @ 150

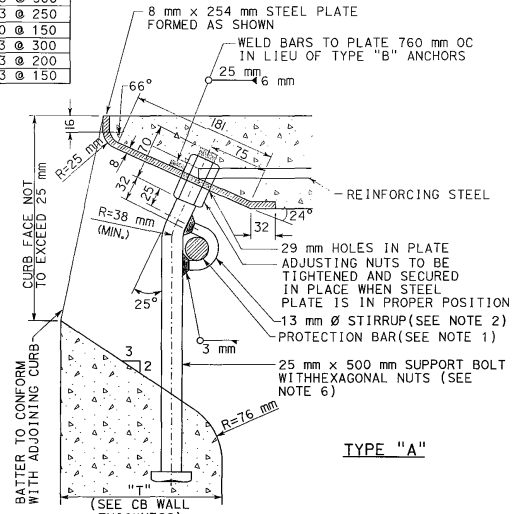


SECTION A-A



PLAN

TYPE C38 (MODIFIED)

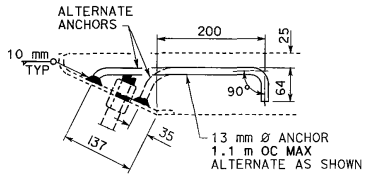


TYPE "A"

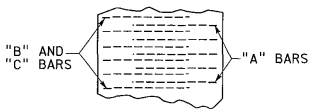
STEEL PLATE ANCHORAGE

NOTES

1. "H" IS THE DIFFERENCE IN ELEVATION BETWEEN THE OUTLET PIPE FLOW LINE AND THE NORMAL GUTTER GRADE LINE UNDEPRESSED.
2. CONCRETE: WHERE THE BASIN IS TO BE CONSTRUCTED WITHIN THE LIMITS OF OR CONTIGUOUS TO A PROPOSED SIDEWALK, THE TOP SLAB OF THE BASIN SHALL BE POURED MONOLITHIC WITH THE SIDEWALK USING THE SAME CLASS OF CONCRETE AS IN THE STRUCTURE.
3. CONNECTION PIPES MAY BE PLACED IN ANY POSITION AROUND THE WALLS PROVIDED THEY ALIGN IN THE PROPER DIRECTION AND THEIR POSITIONS ARE OTHERWISED CONSISTENT WITH THE DRAINAGE PLAN. WHERE MONOLITHIC CONNECTIONS ARE NOT USED, PIPES SHALL BE TRIMMED AT SKEWS NECESSARY TO INSURE MINIMUM 75 mm PIPE EMBEDMENT AND ALLOW 75 mm RADIUS ROUNDING OF STRUCTURE CONCRETE ADJACENT TO PIPE ENDS. FOR DETAILS OF MONOLITHIC CONNECTIONS SEE DRAINGE DETAIL D-XX.
4. SURFACE OF ALL EXPOSED CONCRETE SHALL CONFORM IN SLOPE, GRADE, COLOR, FINISH, AND SCORING TO EXISTING OR PROPOSED SIDEWALK ADJACENT TO THE BASIN.
5. FLOOR OF BASIN SHALL BE GIVEN STEEL-TROWELED FINISH AND SHALL SLOPE FROM ALL DIRECTIONS TO THE OUTLET. FOR INLETS TYPE C40 (MOD)- THE DEPTH AT THE UPSTREAM END SHALL BE CURB FACE PLUS 450 mm UNLESS OTHERWISE SPECIFIED FOR "W" GREATER THAN 3 m.
6. STEPS SHALL BE 19 mm ROUND, GALVANIZED STEEL. NONE REQUIRED WHERE "H" IS 1.1 m OR LESS. INSTALL ONE STEP 400 mm +/- ABOVE FLOOR WHEN "H" IS MORE THAN 1.1 m AND LESS THAN 1.5 m. WHERE "H" IS MORE THAN 1.5 m, STEPS SHALL BE EVENLY SPACED AT 30 INTERVALS FROM 400 mm +/- ABOVE FLOOR TO WITHIN 300 mm +/- OF THE TOP OF BOX.
7. DIMINSIONS:
   - INLETS TYPE C40 (MOD) - H = 1.1 m UNLESS OTHERWISE SPECIFIED.
   - INLET TYPE C40 (MOD) - W = 4.3 m UNLESS OTHERWISE SPECIFIED.
   - B = 970 mm UNLESS OTHERWISE SPECIFIED.
   - T = 150 mm FOR SIDE WALLS AND BACK WALLS AND 200 mm FOR FRONT IF "H" IS 1.1 m OR LESS.
   - T = 200 mm IF "H" IS GREATER THAN 1.1 m AND LESS THAN 2.4 m.
   - T = 250 mm IF "H" IS 2.4 m OR MORE.
   - CURB FACE = 225 mm UNLESS OTHERWISE SPECIFIED.
8. CURVATURE OF THE SIDE WALLS AT CURB OPENING SHALL BE FORMED BY CURVED FORMS AND SHALL NOT BE MADE BY PLASTERING.
9. MANHOLE SHALL BE PLACED ALONG BACK WALL NEAR OUTLET.
10. FOR FRAME AND COVER DETAIL, SEE STD. PLANS B7-11, DETAIL U46.

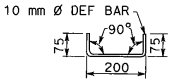


TYPE "B" STEEL PLATE ANCHORAGE



FLOOR

NOTES: ALTERNATE "A" BARS TO BE CUT OFF AT ONE HALF HEIGHT



DOWEL DETAIL

(TO BE USED WHEN TOP IS POURED SEPARATELY, ONE AT EACH CORNER)

STEEL PLATE ANCHORAGE NOTES:

1. WHEN CURB EXCEEDS 175 mm A PLAIN ROUND STEEL PROTECTION BAR 25 mm IN DIAMETER SHALL BE INSTALLED. BAR SHALL BE EMBEDDED 125 mm AT EACH END. WHEN LENGTH OF OPENING IS 2.1 m OR LESS, SAID BAR SHALL BE LOCATED 125 mm BEHIND CURB FACE AND 100 mm ABOVE GUTTER FLOW LINE.
2. A STIRRUP SHALL BE WELDED TO EACH BOLT WHEN BOTH A PROTECTION BAR AND SUPPORT BOLT ARE REQUIRED.
3. ALL EXPOSED METAL PARTS SHALL BE GALVANIZED.
4. WHEN REQUIRED BY LENGTH OF OPENING BULB ANGLE MAY BE DELIVERED IN SECTIONS AND BUTT WELDED IN PLACE. ALL GALVANIZING DAMAGED BY WELDING SHALL RECEIVE TWO COATS OF ALUMINUM PAINT.
5. TYPE A OR TYPE B ANCHORAGE AMY BE USED.
6. SUPPORT BOLTS SHALL BE INSTALLED WHEN LENGTH OF OPENING EXCEEDS 2.1 m. SPACING SHALL BE 2.1 m OC MAX AND 1.5 m OC MIN.
7. THE STEEL PLATE SHALL BE FABRICATED FROM 7.9 mm x 250 mm UNIVERSAL MILL PLATES.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SHOWN OTHERWISE

DRAINAGE DETAILS

NO SCALE

D-100

LAST REVISION 00-00-00 DATE PLOTTED => 13-FEB-2004 TIME PLOTTED => 08:18

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME => trmikesl

CU 07312 FA 1178(1)