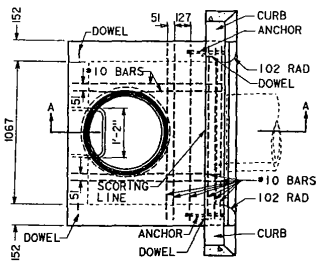
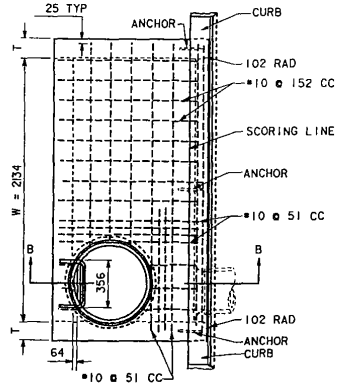
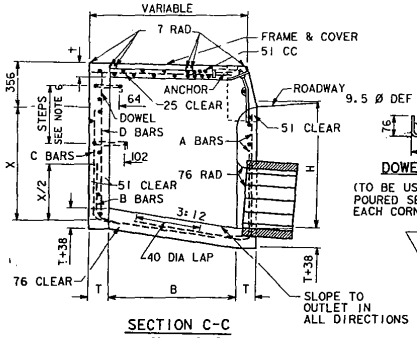
TOP		
B	†	BOTH WAYS
965 TO 1219	114	*10 @ 152
1219 TO 1829	127	*10 @ 127

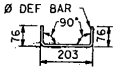


PLAN

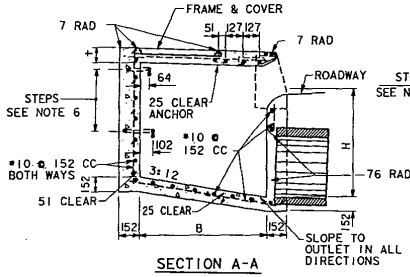




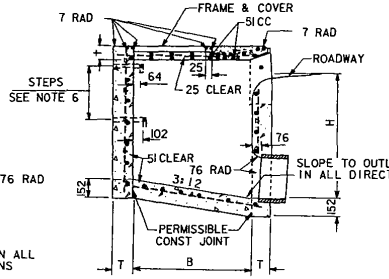
SECTION C-C
TYPE C40



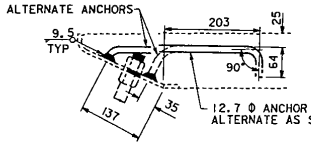
DOWEL DETAIL
(TO BE USED WHEN TOP IS POURED SEPARATELY, ONE AT EACH CORNER)

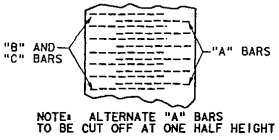


SECTION A-A
TYPE C38

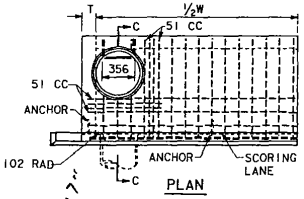


SECTION B-B
TYPE C39

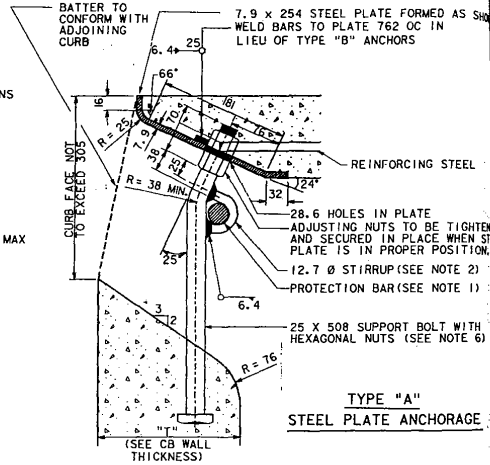




NOTE: ALTERNATE "A" BARS TO BE CUT OFF AT ONE HALF HEIGHT



PLAN
FLOOR



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 OTHERWISE CONSISTENT WITH THE DRAINAGE PLAN. WHERE MONOLITHIC CONNECTIONS ARE NOT USED, PIPES SHALL BE TRIMMED AT SKEWS NECESSARY TO INSURE MINIMUM 76 mm PIPE EMBEDMENT AND ALLOW 76 mm RADIUS ROUNDING OF STRUCTURE CONCRETE ADJACENT TO PIPE ENDS. FOR DETAILS OF MONOLITHIC CONNECTIONS SEE DRAINAGE DETAIL 16.
4. SURFACE OF ALL EXPOSED CONRETE 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 TO THE OUTLET. FOR INLETS TYPE C39 AND C40-THE DEPTH AT THE UPSTREAM END SHALL BE CURB FACE PLUS 457 mm UNLESS OTHERWISE SPECIFIED FOR "W" GREATER THAN 3048 mm.
6. STEPS SHALL BE 19 mm ROUND, GALVANIZED STEEL. NONE REQUIRED WHERE "H" IS 1067 mm LESS. INSTALL ONE STEP 406 mm± ABOVE FLOOR OR WHEN "H" IS MORE THAN 1067 mm AND LESS THAN 1524 mm. WHERE "H" IS MORE THAN 1524 mm, STEPS SHALL BE EVENLY SPACED AT 305 mm± INTERVALS FROM 406 mm± ABOVE FLOOR TO WITHIN 305 mm OF THE TOP OF BOX.
7. DIMENSIONS: INLET TYPE C38 - W = 914 mm UNLESS OTHERWISE SPECIFIED.
   INLETS TYPE C39 & C40 - W = 1067 mm UNLESS OTHERWISE SPECIFIED.
   INLET TYPE C40 - W = 4267 mm UNLESS OTHERWISE SPECIFIED.
   B = 965 mm UNLESS OTHERWISE SPECIFIED.
   T = 152 mm FOR SIDE WALLS AND BACK WALLS AND 203 mm FOR FRONT IF "H" IS 1067 mm OR LESS.
   T = 203 mm IF "H" IS GREATER THAN 1067 mm AND LESS THAN 2438 mm.
   T = 254 mm IF "H" IS 2438 mm OR MORE.
   CURB FACE = 229 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 PLAN B7-11, DETAIL U46.

STEEL PLATE ANCHORAGE NOTES

1. WHEN CURB FACE EXCEEDS 178 mm A PLAIN ROUND STEEL PROTECTION BAR 25 mm IN DIAMETER SHALL BE INSTALLED. BAR SHALL BE EMBEDDED 127 mm EACH END. WHEN LENGTH OF OPENING IS 2134mm OR LESS, SAID BAR SHALL BE LOCATED 127 mm BEHIND C F AND 102 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 MAY BE USED.
6. SUPPORT BOLTS SHALL BE INSTALLED WHEN LENGTH OF OPENING EXCEEDS 2134 mm. SPACING SHALL BE 2134 mm OC MAX AND 1524 mm OC MIN
7. THE STEEL PLATE SHALL BE FABRICATED FROM 7.9 x 254 UNIVERSAL MILL PLATES.

REINFORCEMENT FOR TYPES C39 & C40 WITH W=2134 OR 4267

W	H	T	FRONT WALL HORIZ	FRONT WALL VERT	REAR WALL HORIZ	REAR WALL VERT	END WALL HORIZ	END WALL VERT	FLOOR BOTH WAYS
2134	TO 1219	152	*10 @ 152	*10 @ 152	*10 @ 152	*10 @ 152	*10 @ 152	*10 @ 152	*10 @ 15
2134	1219 TO 2438	203	*13 @ 305	*13 @ 305	*13 @ 305	*13 @ 305	*13 @ 305	*13 @ 305	*13 @ 30
2134	2438 TO 3658	254	*13 @ 254	*13 @ 254	*13 @ 254	*13 @ 254	*13 @ 254	*13 @ 254	*13 @ 25
4267	TO 1219	152	*10 @ 152	*10 @ 152	*10 @ 152	*10 @ 152	*10 @ 152	*10 @ 152	*10 @ 15
4267	1219 TO 2438	203	*13 @ 305	*13 @ 305	*13 @ 305	*13 @ 305	*13 @ 305	*13 @ 305	*13 @ 30
4267	2438 TO 3048	254	*13 @ 203	*13 @ 305	*13 @ 254	*13 @ 254	*13 @ 254	*13 @ 254	*13 @ 25
4267	3048 TO 3658	254	*13 @ 152	*13 @ 305	*13 @ 254	*13 @ 254	*13 @ 254	*13 @ 254	*13 @ 25

REINFORCEMENT FOR TYPES C39 & C40 WITH W=6401 OR MORE

W	H	T	FRONT WALL "A" BARS	FRONT WALL HORIZ	REAR WALL "B" BARS	REAR WALL "C" BARS	REAR WALL "D" BARS HORIZ	REAR WALL "D" BARS VERT	END WALL HORIZ	END WALL VERT	FLOOR TIE BARS
21' OR OVER	TO 1219	152	*10 @ 305	*13 @ 610	*10 @ 305		*10 @ 305	*13 @ 610	*10 @ 457	*10 @ 457	*13 @ 61
	TO 1524	203	*10 @ 254	*13 @ 610	*10 @ 305		*10 @ 305	*13 @ 610	*10 @ 356	*10 @ 356	*13 @ 61
	TO 1829	203	*10 @ 152	*13 @ 610	*10 @ 267		*10 @ 305	*13 @ 610	*10 @ 356	*10 @ 356	*13 @ 61
	TO 2134	203	*13 @ 216	*13 @ 610	*10 @ 216		*10 @ 305	*13 @ 610	*10 @ 356	*10 @ 356	*13 @ 61
	TO 2438	203	*13 @ 165	*13 @ 610	*10 @ 165		*10 @ 305	*13 @ 610	*10 @ 356	*10 @ 356	*13 @ 61
	TO 2743	254	*13 @ 191	*13 @ 610	*10 @ 191		*10 @ 305	*13 @ 508	*10 @ 279	*10 @ 279	*13 @ 61
	TO 3048	254	*13 @ 152	*13 @ 610	*13 @ 305		*10 @ 305	*13 @ 508	*10 @ 279	*10 @ 279	*13 @ 61
	TO 3353	254	*16 @ 191	*13 @ 610	*13 @ 279	*16 @ 572	*10 @ 305	*13 @ 457	*10 @ 279	*10 @ 279	*13 @ 61
	TO 3658	254	*19 @ 229	*13 @ 610	*13 @ 229	*19 @ 648	*10 @ 305	*13 @ 330	*10 @ 279	*10 @ 279	*13 @ 61

CONTINUATION OF "A", "B" & "C" BAR OF FRONT AND REAR WALLS

DETAIL CN

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DRAINAGE DETAILS
NO SCALE
D-43

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO
12	Ora	55	21.5/23.2	106

REGISTERED CIVIL ENGINEER — 8-10-98 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — V.V. Vartanian — No. 38893 — Exp. 3/31/00 — CIVIL — STATE OF CALIFORNIA

ORANGE COUNTY TRANSPORTATION AUTHORITY
550 SOUTH MAIN ST.
ORANGE, CALIFORNIA 92613

CENTENNIAL ENGINEERING, INC.
17300 REDHILL AVE. STE 150
IRVINE, CALIFORNIA 92614

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DATE | REVISED BY | DATE REVISED

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

USERNAME => trannda
DGN FILE => c01332143_14143131

CU 12209 | EA 013321