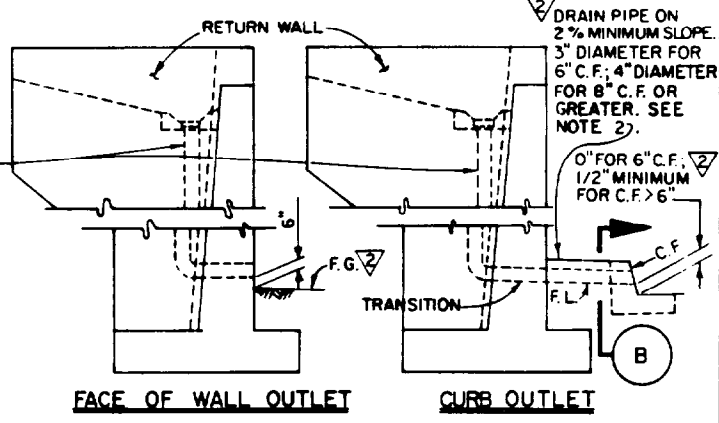
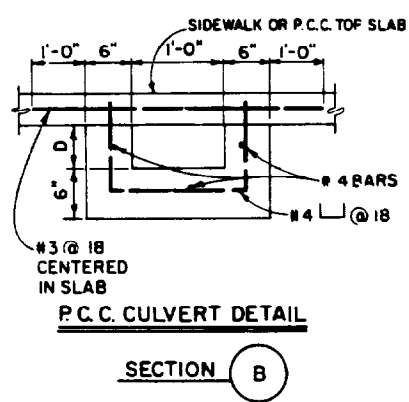
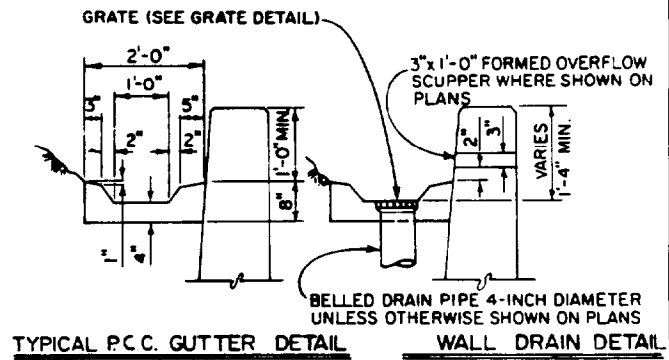


DRAIN THROUGH RETURN WALL

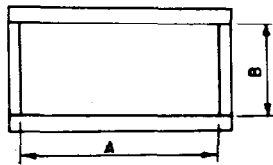


SUBMITTED: *January 25, 1990*
ENGINEER OF DESIGN
DEPUTY ENGINEER
APPROVED: *Feb 15, 1990*
CITY ENGINEER
DESIGNED BY: RGC
DRAWN BY: RGM
CHECKED BY: RGC

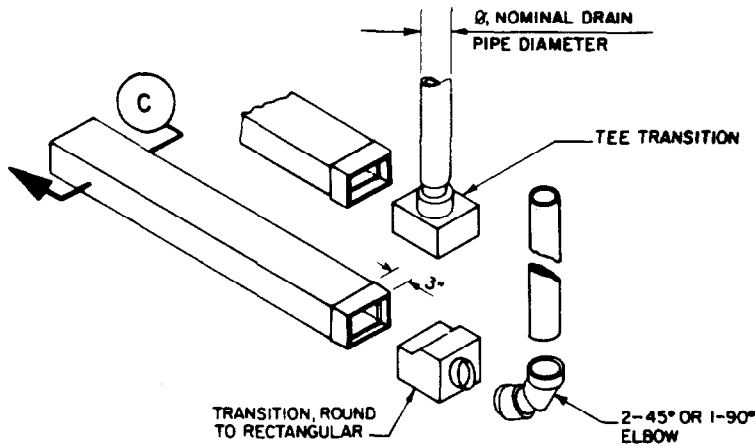


REVISIONS		SUPERSEDES	REFERENCES
NO.	DESCRIPTION	B-4096	
2	CHANGED DIMENSIONS. CHANGED REBAR SIZE. REMOVED CURB REBARS. REVISED TITLES.		

VAULT INDEX NUMBER B-4109
SHEET 1 OF 2 SHEETS



SECTION C



CULVERT DIMENSIONS

SIZE	Ø	A	B
1	4"	5"	3"
2	6"	9"	3"
3	6"	12-1/2"	3"
4	8"	14"	4"

NOTE: MINIMUM SIZE OF CULVERT (A AND B) IS DEPENDENT UPON SIZE OF THE DRAIN PIPE, Ø.

PREFORMED/PRECAST CULVERT DETAIL

NOTES:

1. THE PREFORMED CULVERT AND DRAIN PIPE SHALL BE CAST IRON, DUCTILE IRON, V.C.P., OR SOLID WALL P.V.C. CONFORMING TO: ASTM D3034, SDR 23.5; OR ASTM D2241, SDR 21; OR ASTM D1785, SCHEDULE 80. ANY OTHER NON-ASBESTOS MATERIAL MAY BE USED UPON APPROVAL OF THE ENGINEER.
2. WHERE DRAINS WHICH OUTLET THROUGH THE CURB AND WHICH ARE LARGER THAN 4 INCHES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL CONSTRUCT A RECTANGULAR CULVERT BETWEEN THE WALL AND CURB FACE. SUCH CULVERT MAY BE AS SHOWN IN SECTION B ON SHEET 1 OR SECTION C HEREON.
3. THE TRANSITION FROM DRAIN PIPE TO CULVERT SHALL BE IN THE WALL. AREA OF OPENING IN TRANSITION SHALL NOT BE LESS THAN THAT OF PIPE FROM WALL GUTTER.
4. ALL FORMS FOR CULVERT AND TRANSITION SHALL BE REMOVED.
5. EDGE OPENING IN CURB FACE TO 3/4 INCH MINIMUM RADIUS.
6. FOR SECTION B: D=3" FOR 6" C.F.; D=3-1/2" FOR 8" C.F. OR GREATER.
7. WALL WEEPHOLES SHALL NOT BE PLACED CLOSER THAN 16 INCHES FROM DRAIN PIPES.