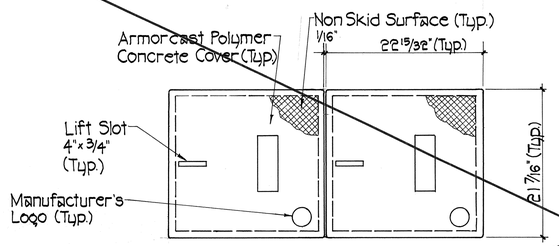
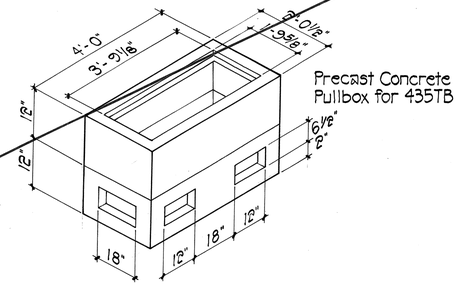
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-056-1(39)	1998	23	28



PLAN VIEW

ELEVATION

SIDE VIEW



Precast Concrete Pullbox for 435TB

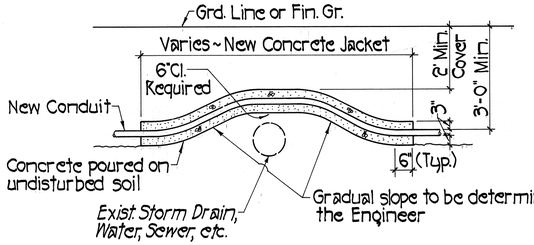
PULLBOX

DELETE

NOTES

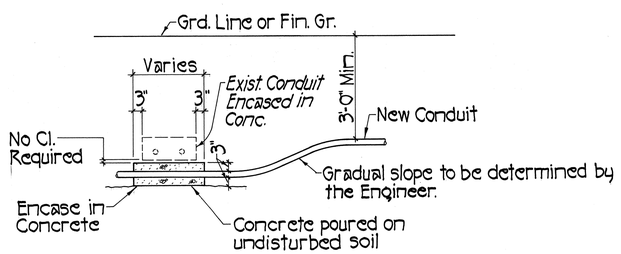
1. Provide Armorcast Polymer Concrete Cover.
2. Install on 6" bed of #3 Crushed Rock.
3. Provide sufficient amount of 5/8"ϕ x 8' Copper-weld Ground Rods as directed by the Traffic Signal Inspector/Engineer. Cost shall be incidental to the various Traffic Signal Items.

TYPE "D" PULLBOX AND COVER DETAIL



TYPICAL CONDUIT BY-PASS DETAIL ABOVE EXISTING UTILITIES

Not to Scale

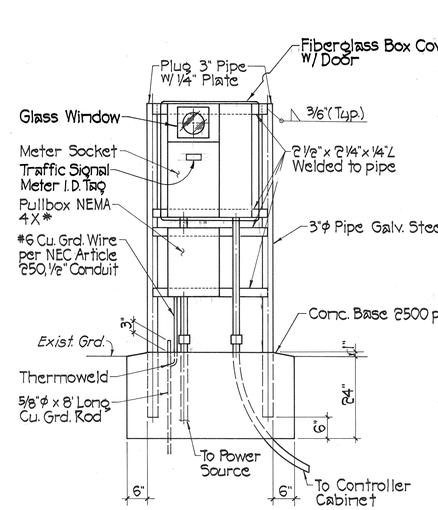


TYPICAL CONDUIT BY-PASS DETAIL BELOW EXISTING UTILITIES

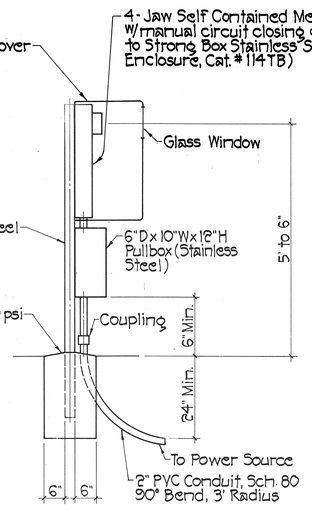
Not to Scale

NOTES:

1. Pedestal shall be hot-dipped galv. after fabrication.
2. All fastening bolts, nuts & washers shall be stainless steel.
3. Provide 4 ft. cl. in front of meter.
4. * Sealable Stainless Steel Enclosure 6"D x 10"W x 12"H.



FRONT ELEVATION



SIDE ELEVATION

METER PEDESTAL FOR UNDERGROUND SERVICE DETAIL

(A 23)

Not to Scale

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
NOTE BOOK	TRACED BY	
	DESIGNED BY	
No.	QUANTITIES BY	
	CHECKED BY	

DATE	REVISION
10/8/98	Delete Type "D" Pullbox and Cover Detail.

HAROLD I. YOSHIZAKI LICENSED PROFESSIONAL ENGINEER No. 2091-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Harold I. Yoshizaki
SHIMABUKURO, ENDO & YOSHIZAKI, INC.
1126 12th Avenue
Honolulu, Hawaii 96816

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAILS

KUHIO HIGHWAY
TRAFFIC SIGNAL MODERNIZATION
FEDERAL-AID PROJECT NO. STP-056-1(39)

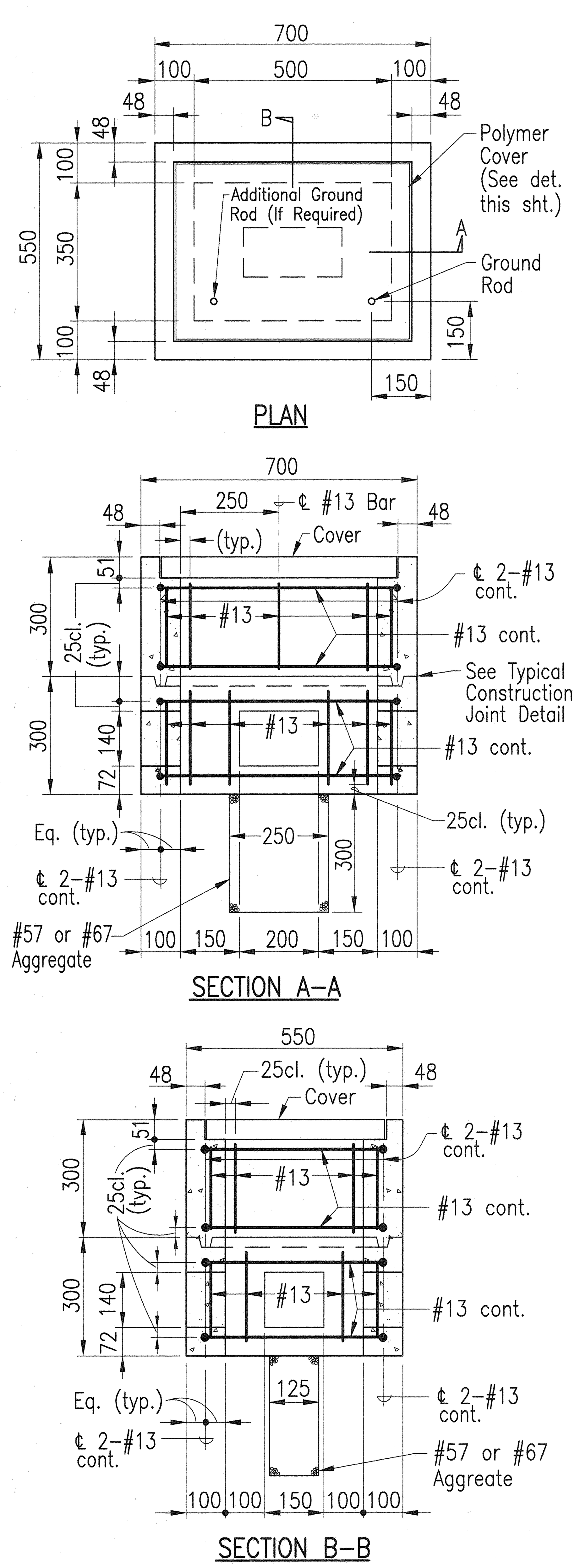
SCALE: AS SHOWN DATE: June 1997

SHEET No. 1 OF 1 SHEETS

C023

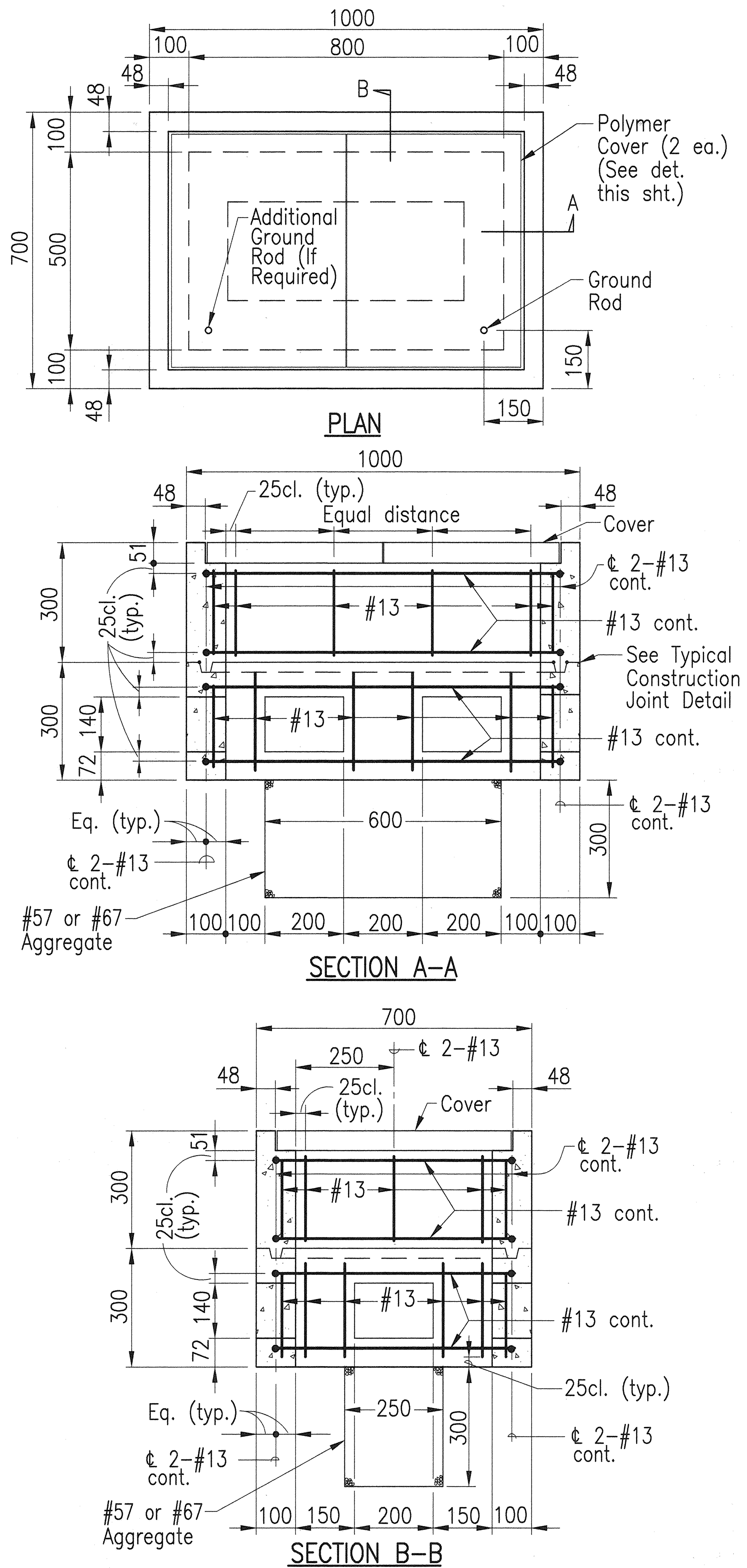
137218

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-056-1(39)	1998	23S-1	28



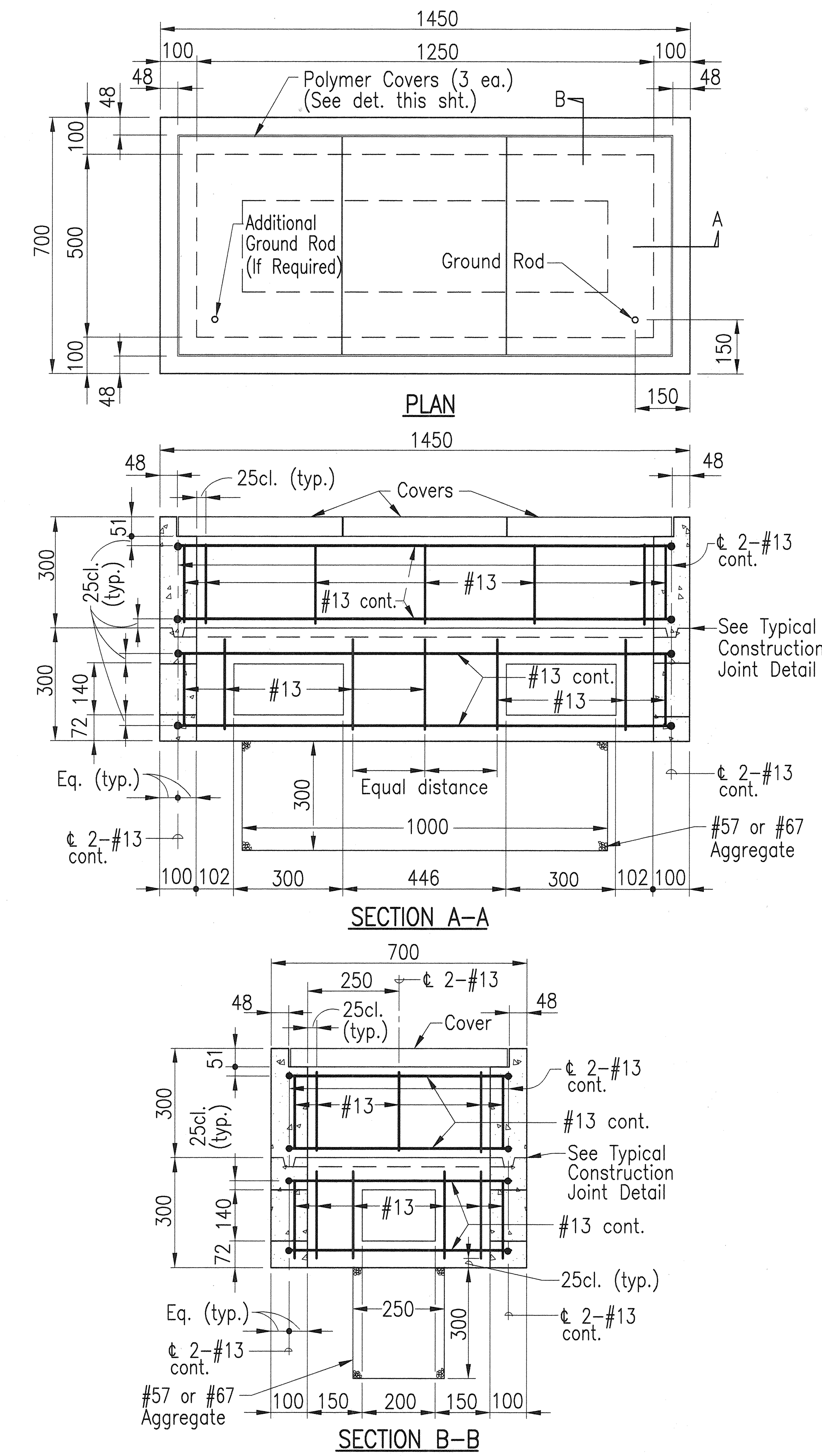
TYPE "A" PULLBOX (Old Type "B")

Scale: 1:10



TYPE "B" PULLBOX (Old Type "C")

Scale: 1:10

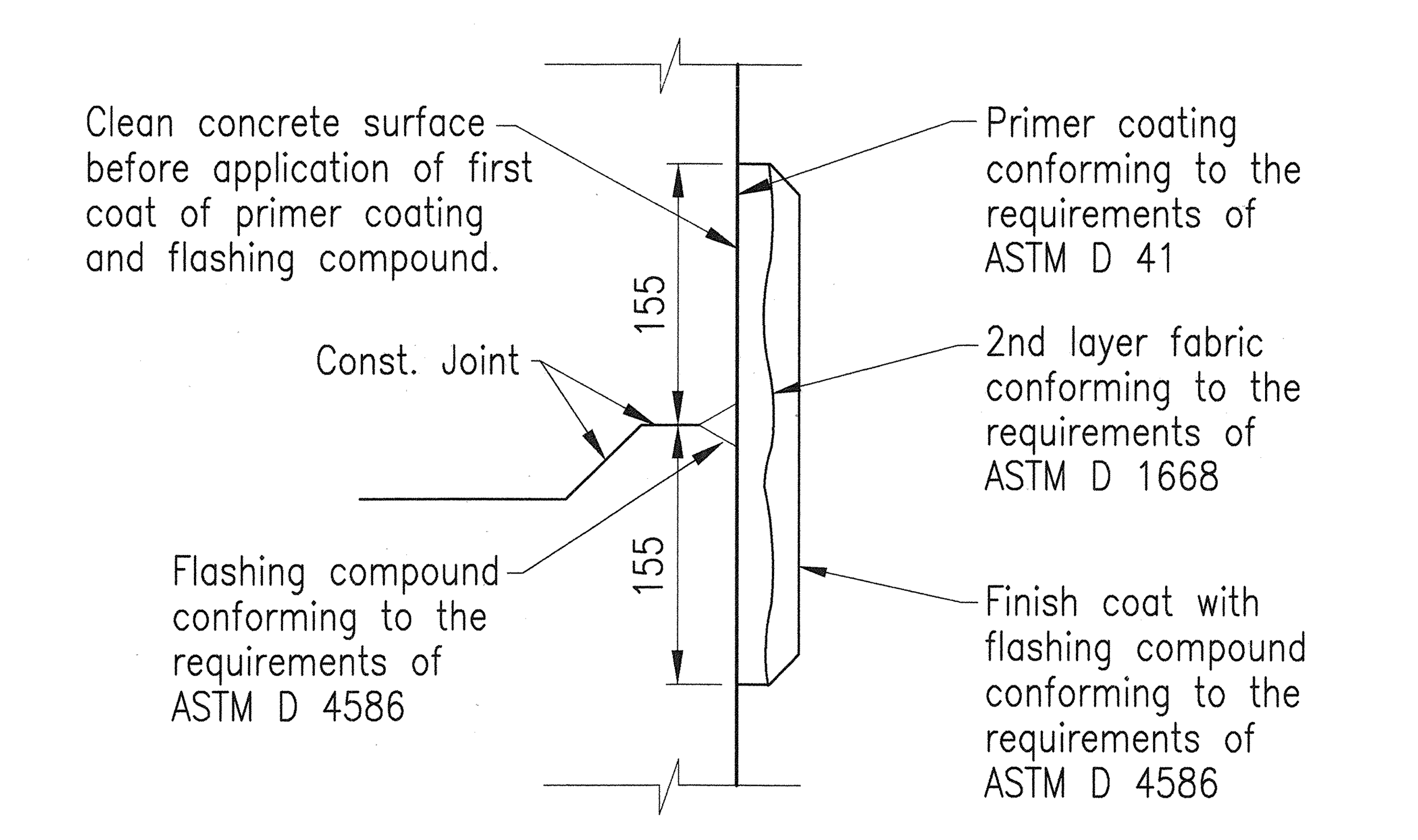


TYPE "C" PULLBOX (Old Type "D")

Scale: 1:10

GENERAL NOTES

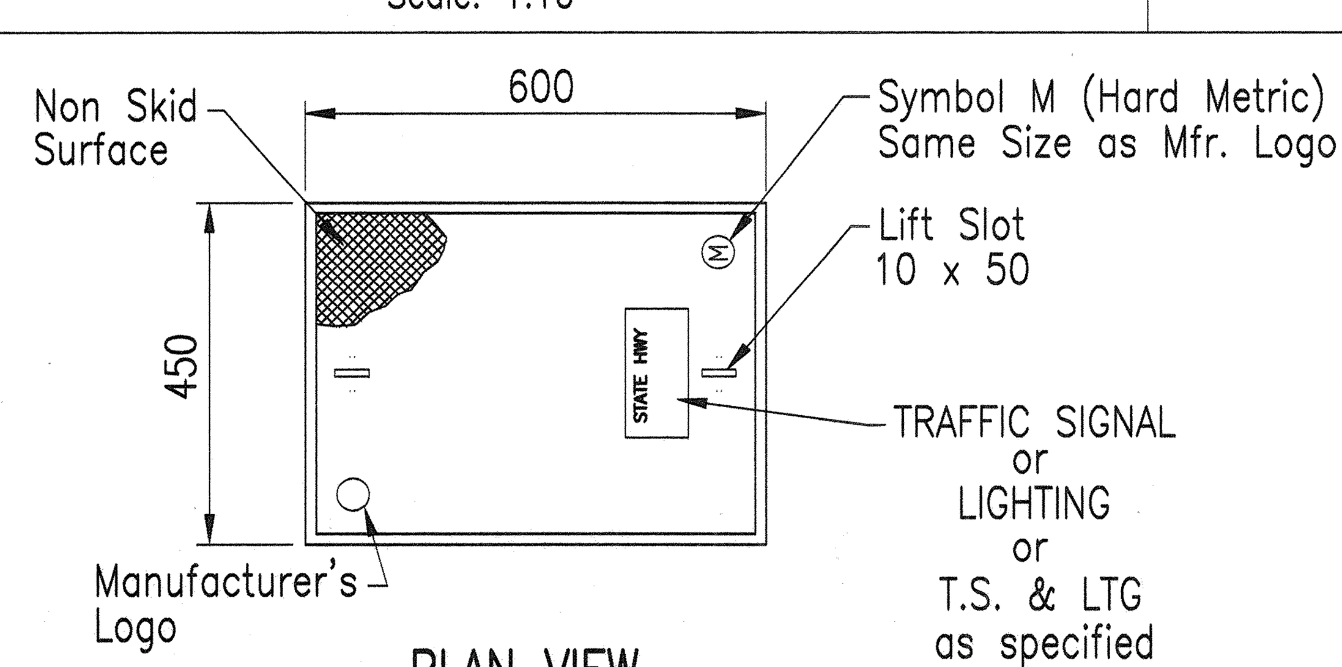
1. Provide a minimum of one 16 ø x 2.5m Copperweld Ground Rod in each pullbox. When directed by the Traffic Signal Inspector/Engineer, install additional Ground Rods. Cost of Ground Rods shall be incidental to the pullboxes.
2. All pre-cast concrete pullboxes shall be manufactured in two pieces.
3. The pullbox with cover shall be capable of supporting an MS 18 Loading.
4. The maximum weight of the pullbox cover shall not exceed 27 kilograms.
5. The openings for the conduits on all pullboxes shall be pre-cast concrete knockouts.
6. After installing the conduits in the openings of the pullboxes, the Contractor shall fill the excess opening in the pre-cast knockouts with concrete mortar.
7. Prior to installing the pullboxes, the Contractor shall level the bottom of the trench and achieve a minimum of 95% relative compaction of the bottom of the trench.
8. All concrete shall be Class A (25MPa, min.).
9. Rebars shall be Grade 300 and all lapped splices shall be 360mm minimum.
10. The #57 or #67 size aggregate shall conform to latest version of AASHTO M43 (ASTM D 448).
11. Type "C" Pullbox shall be installed in a location protected from vehicular traffic (i.e. raised sidewalk, behind A.C. curbs, traffic signal standard or pipe guards).

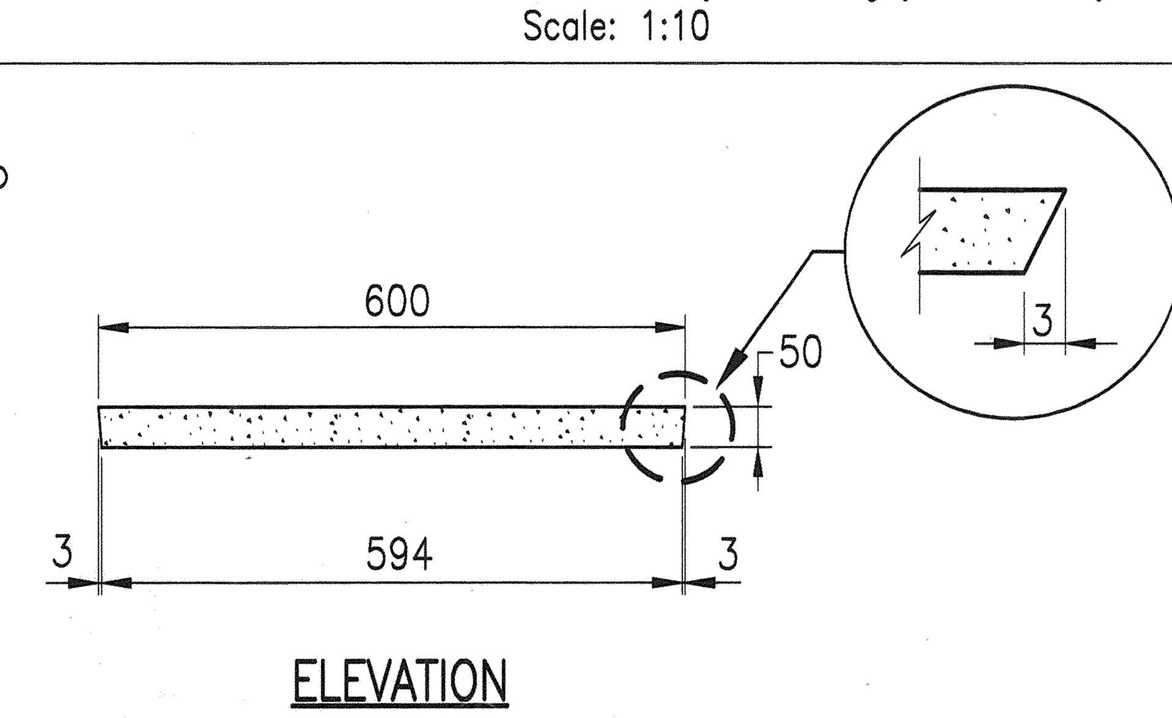


TYPICAL FLASHING COMPOUND WATERPROOFING DETAILS

Not to Scale

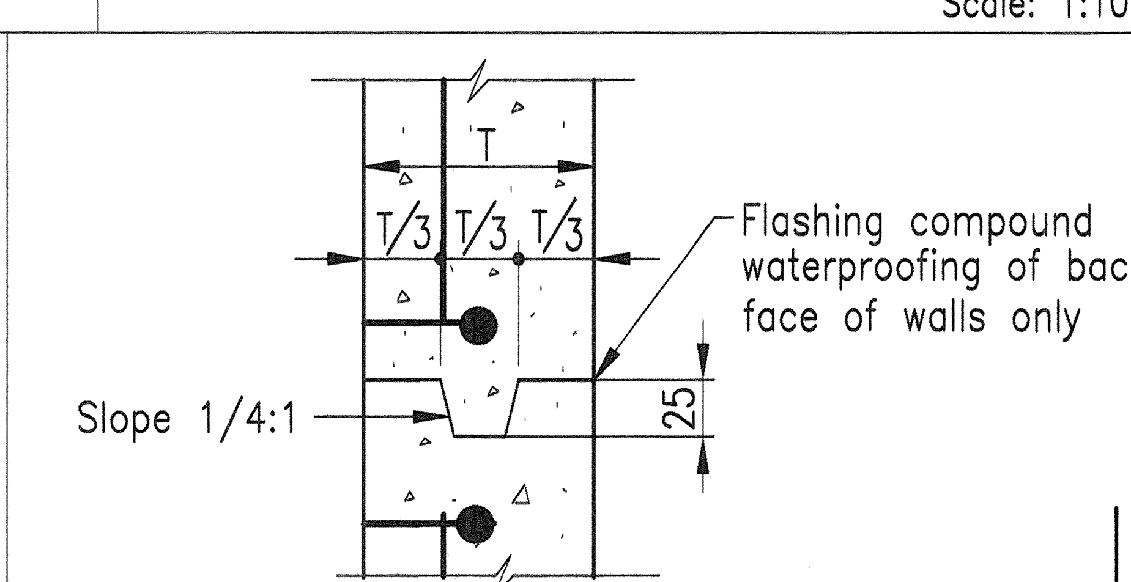
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN





POLYMER CONCRETE COVER

Not to Scale



TYPICAL CONSTRUCTION JOINT DETAIL

Not to Scale

DATE	REVISION
10/8/98	Added metric pullbox details.

LICENSED PROFESSIONAL ENGINEER — HAROLD I. YOSHIZAKI — HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PULLBOX & COVER DETAILS

KUHIO HIGHWAY
TRAFFIC SIGNAL MODERNIZATION
FEDERAL-AID PROJECT NO. STP-056-1(39)

SCALE: AS SHOWN — Date: JUNE 1997

SHEET No. 1 OF 1 SHEETS

CO 23 S-1