

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | STP-065-(K7)       | 2000        | 20        | 22           |

# GENERAL NOTES

1. Provide a minimum of one 16  $\phi$  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).

Clean concrete surface before application of first coat of primer coating and flashing compound

Primer coating conforming to the requirements of ASTM D 41

2nd layer fabric conforming to the requirements of ASTM D 1668

Flashings compound conforming to the requirements of ASTM D 4586

Finish coat with flashing compound conforming to the requirements of ASTM D 4586

## TYPICAL FLASHING COMPOUND WATERPROOFING DETAILS

Not to Scale

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

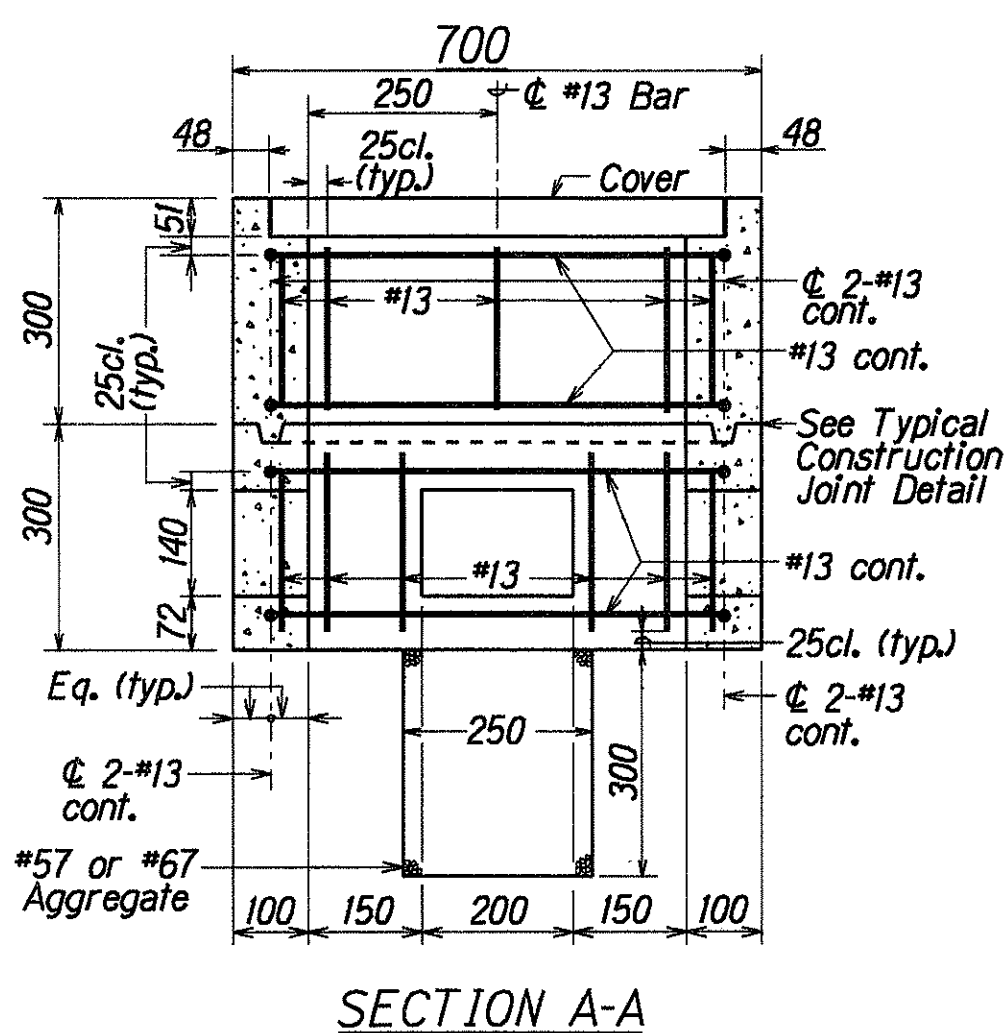
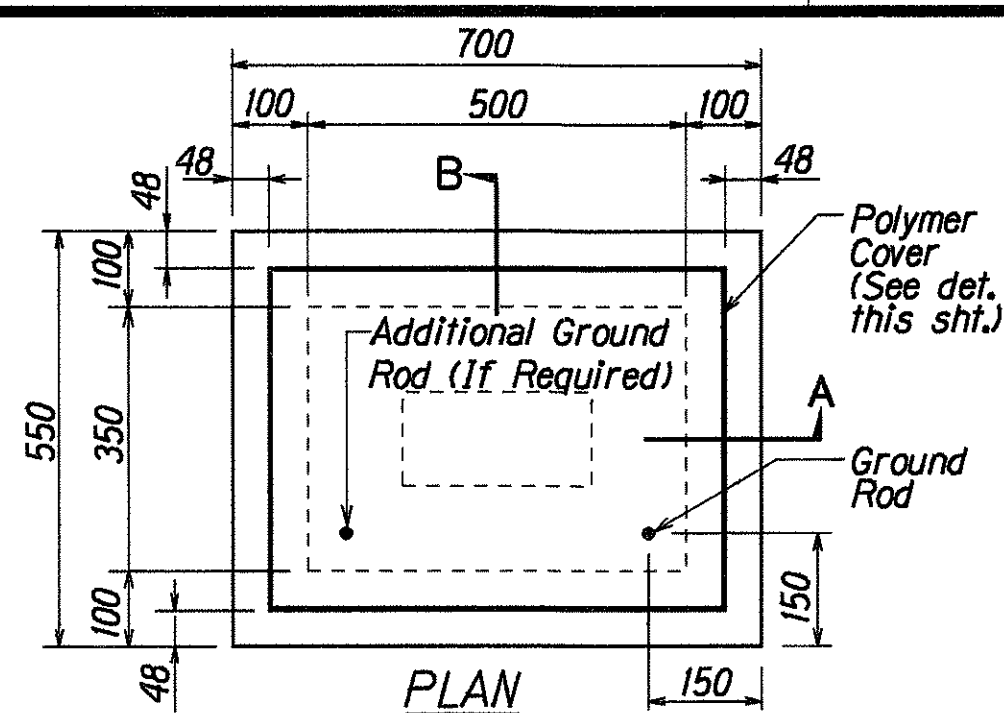
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PULLBOX & COVER DETAILS**

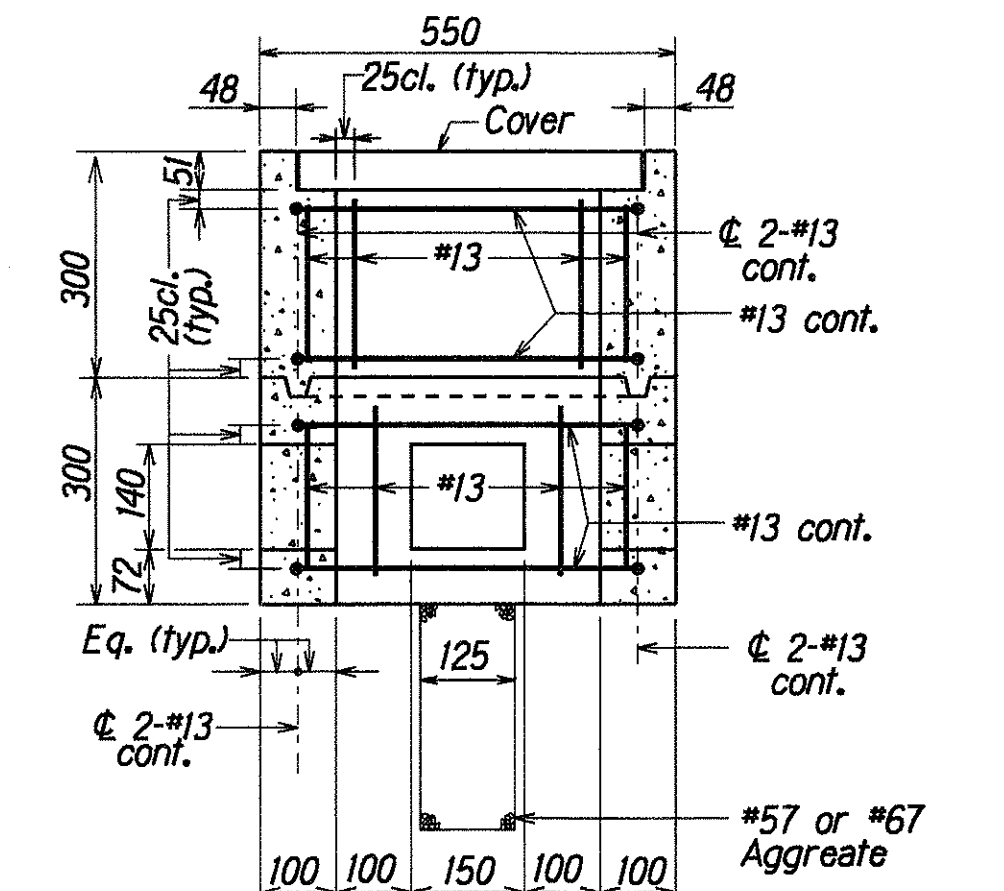
MOKAPU SADDLE ROAD  
Traffic Signals at Kaneohe Bay Drive  
Fed. Aid Project No. STP-065-(K7)

Scale: As Shown Date: June, 1999

SHEET No. 1 OF 1 SHEETS



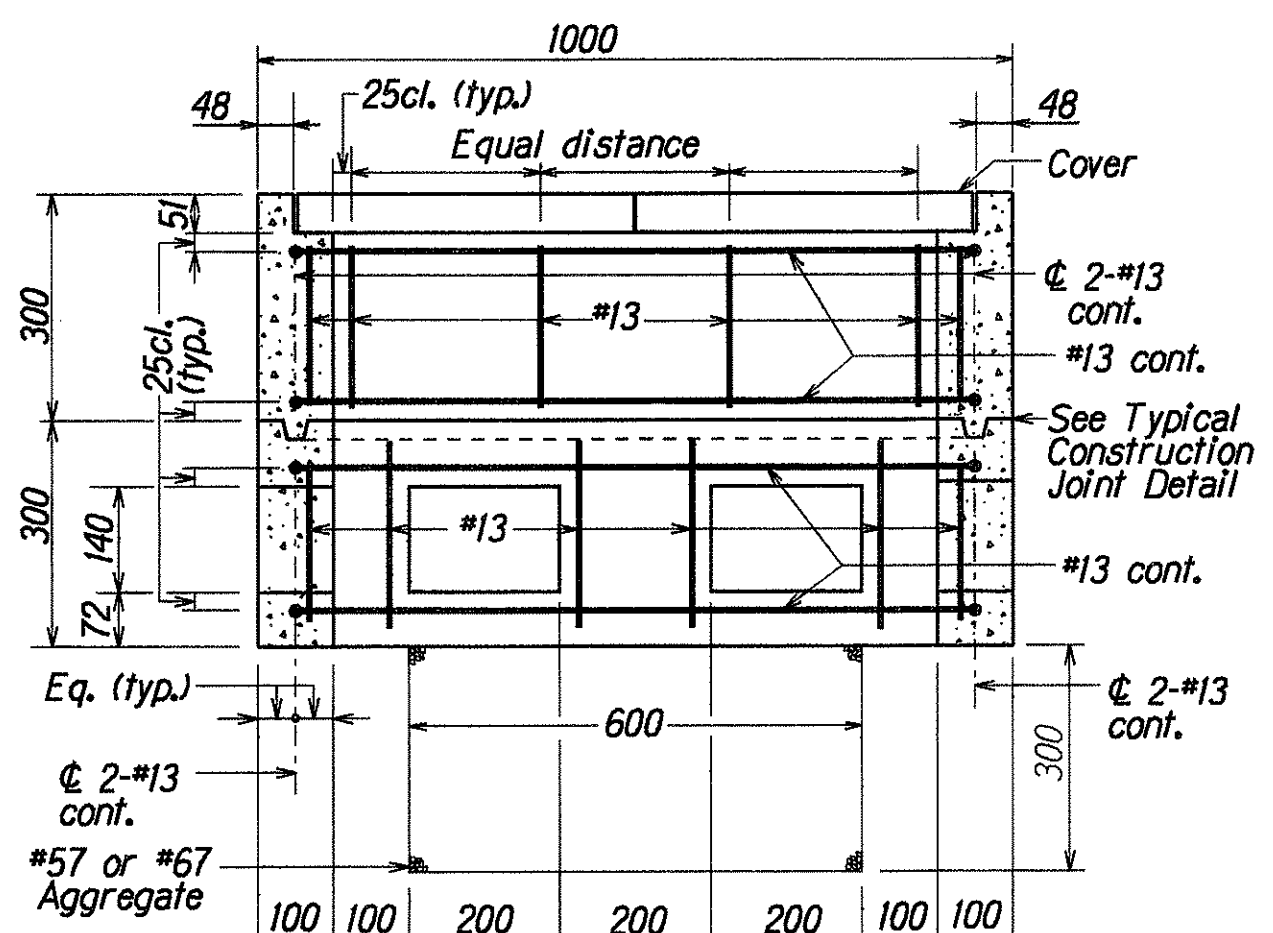
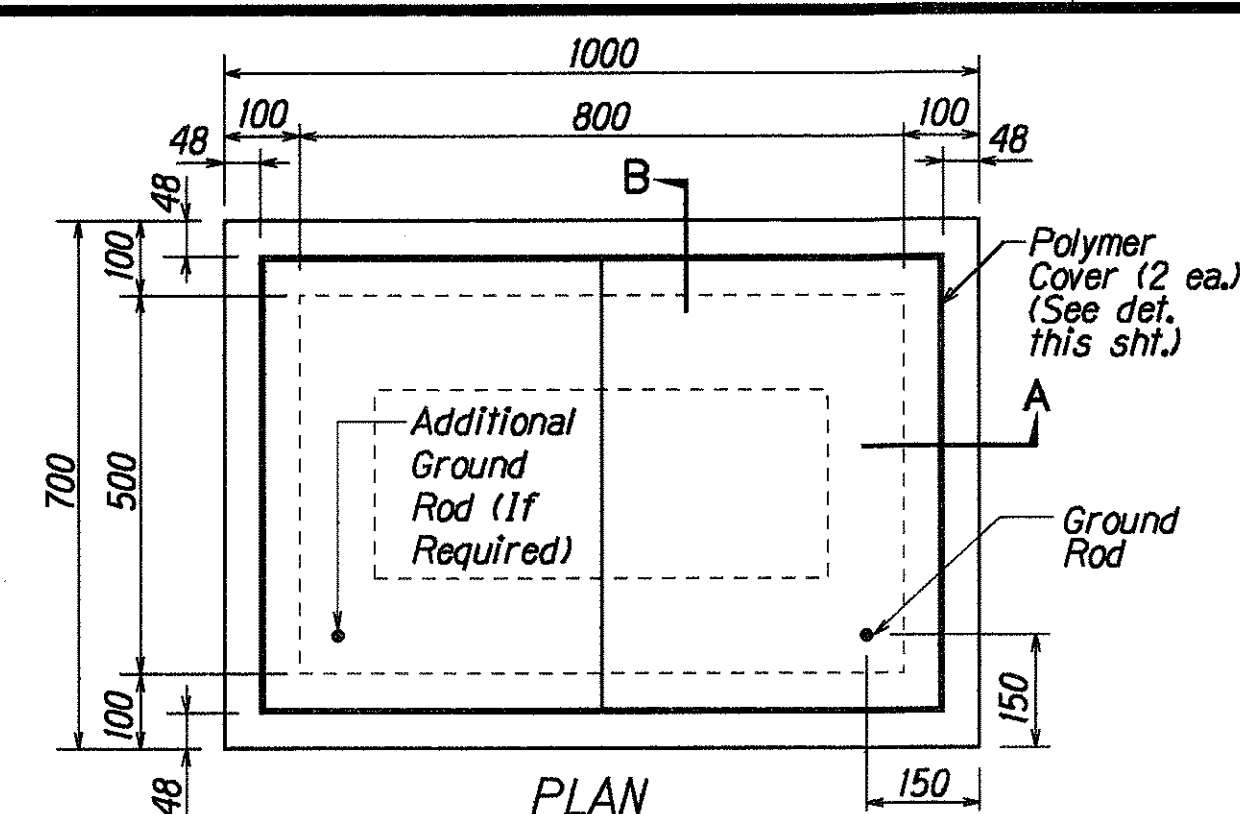
SECTION A-A



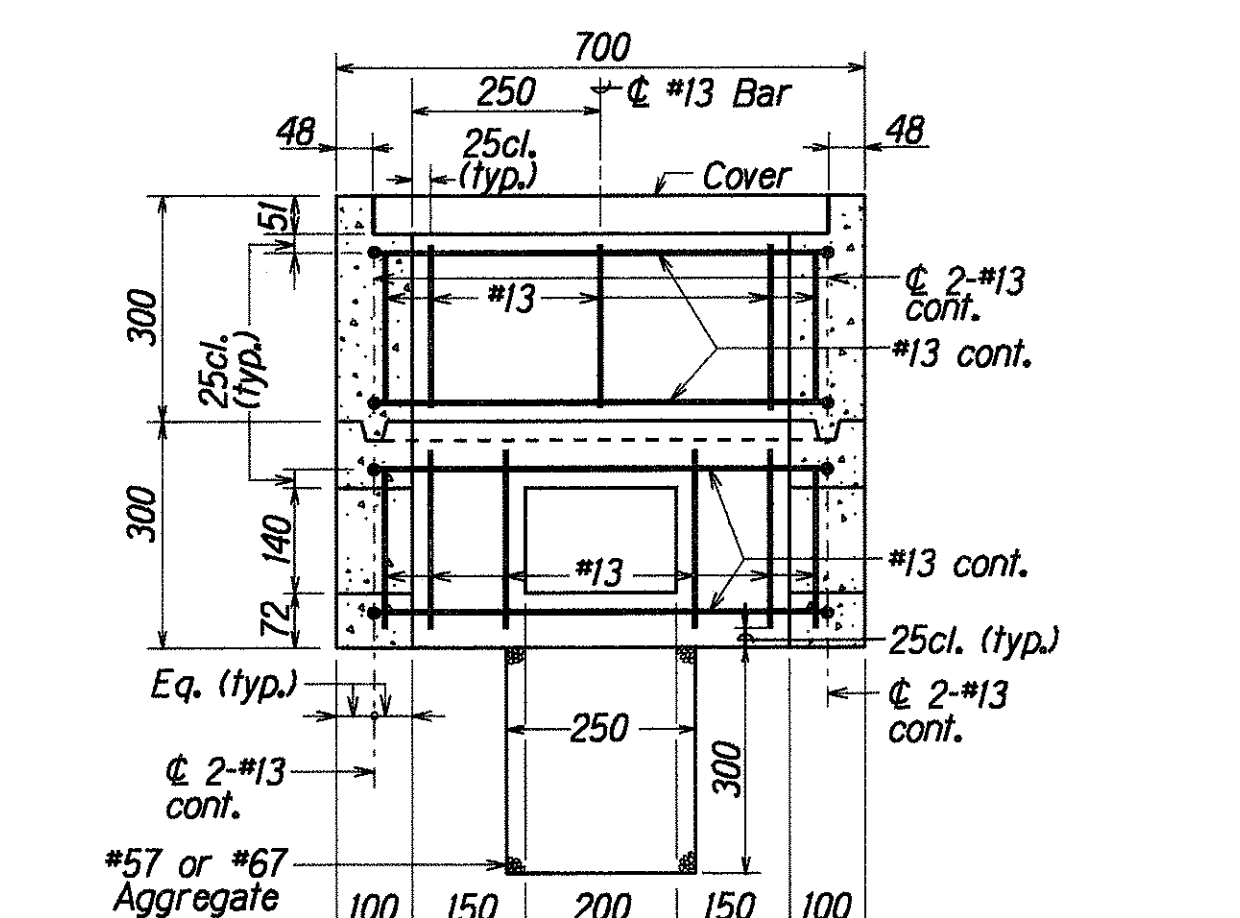
SECTION B-B

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

Scale: 1 : 100



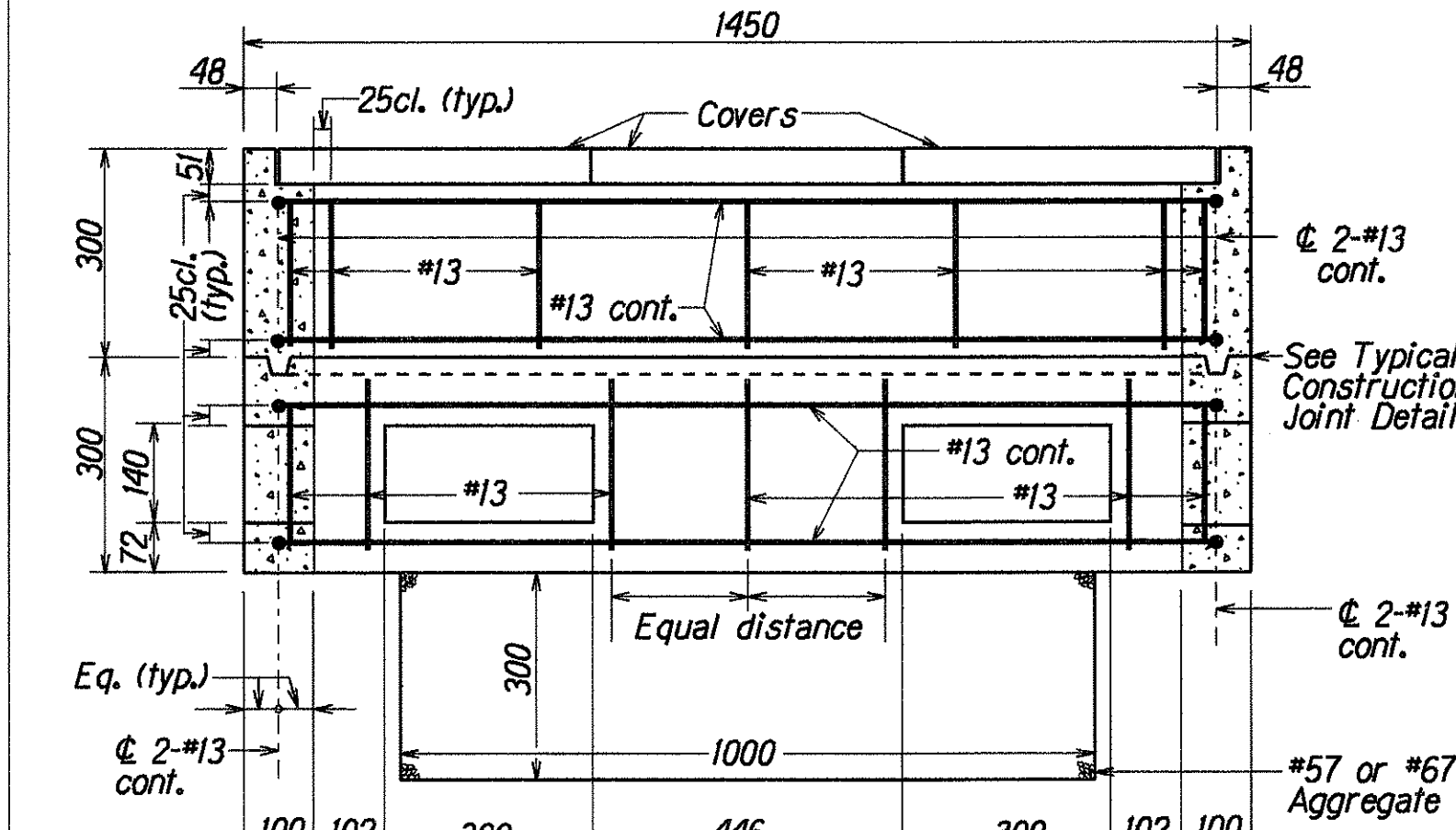
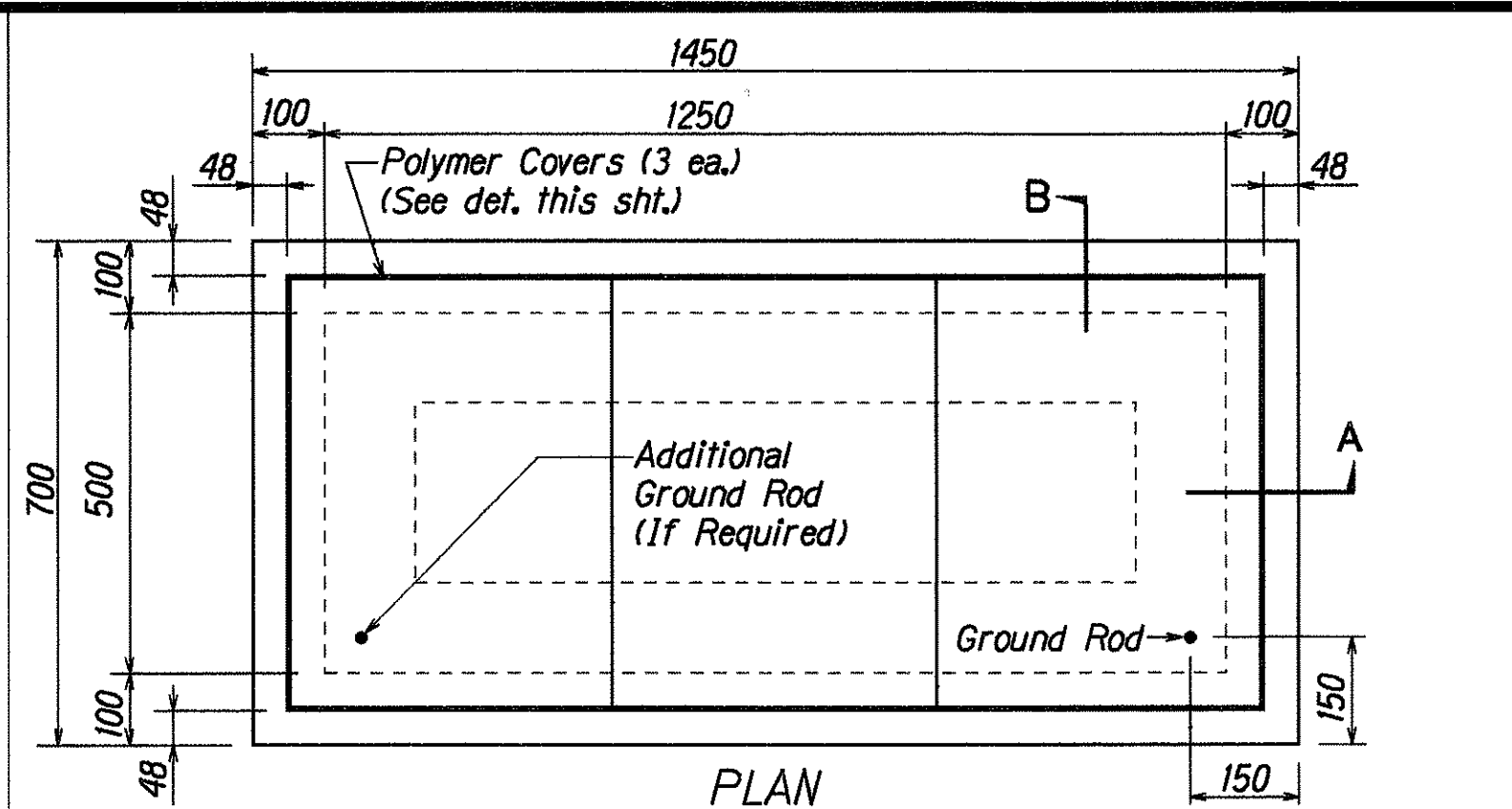
SECTION A-A



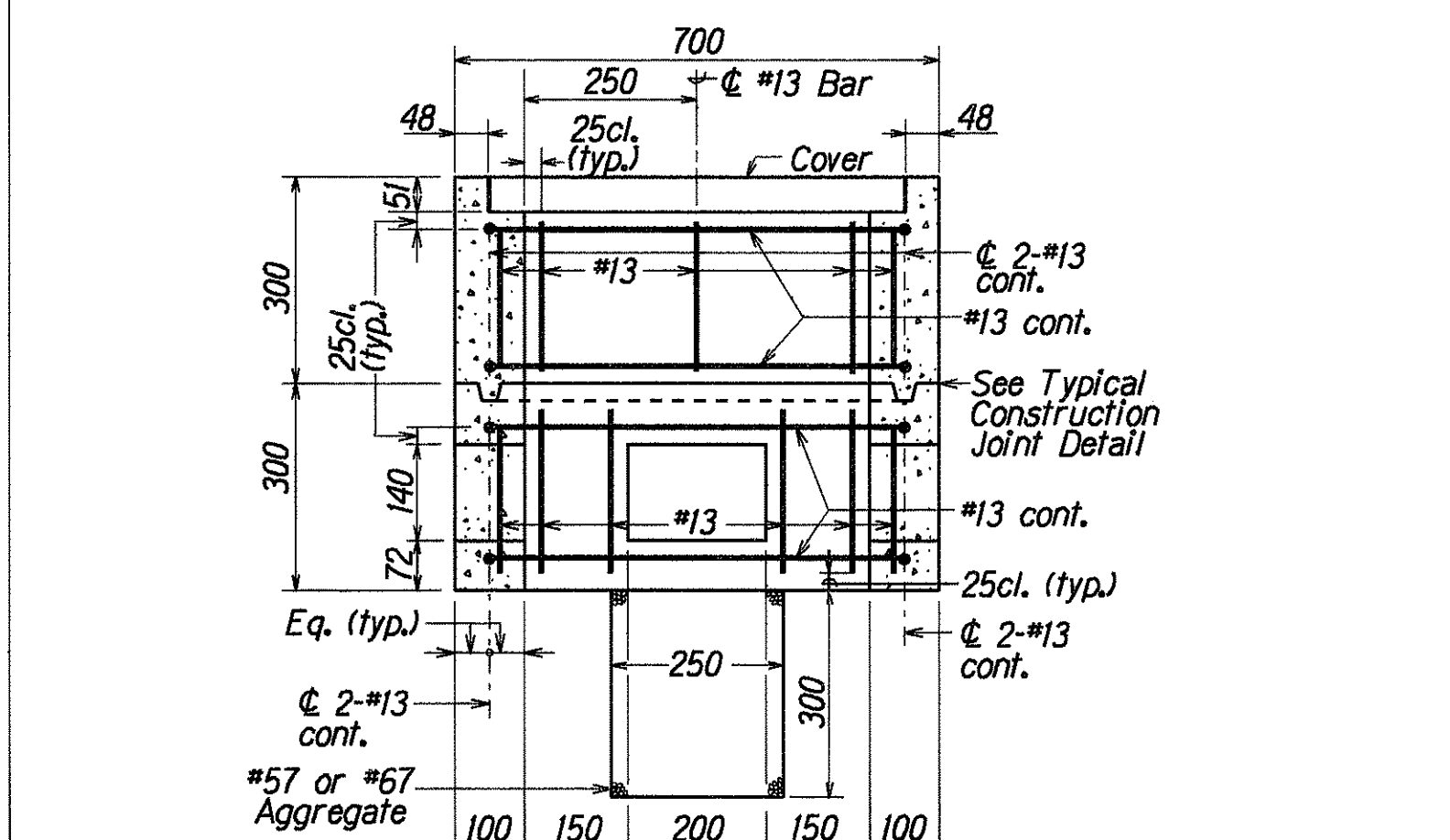
SECTION B-B

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

Scale: 1 : 100



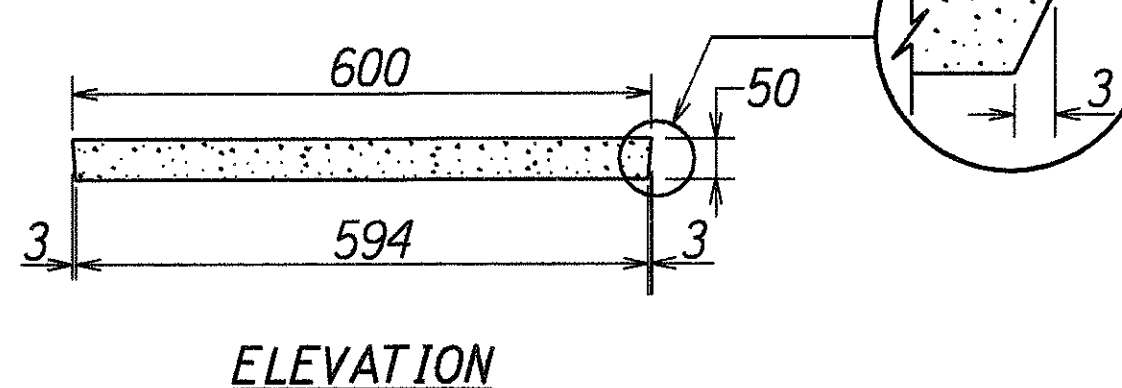
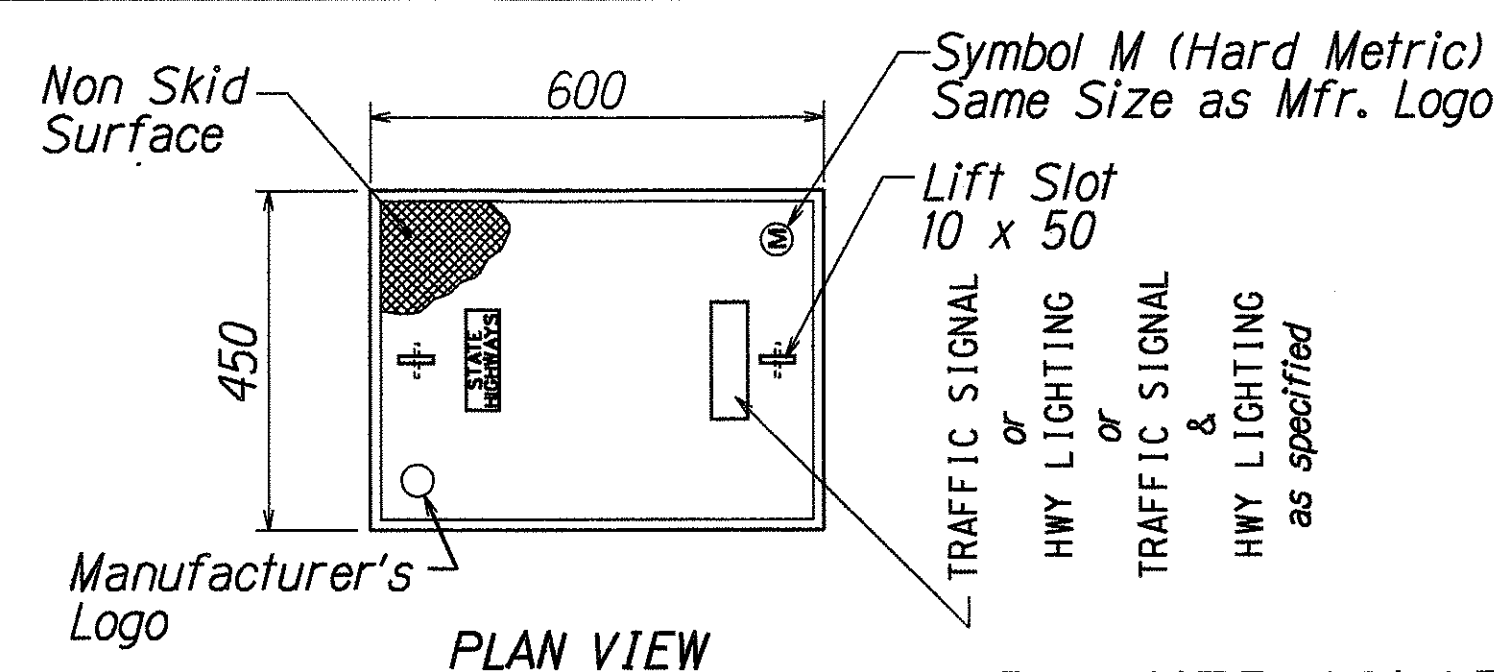
SECTION A-A



SECTION B-B

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

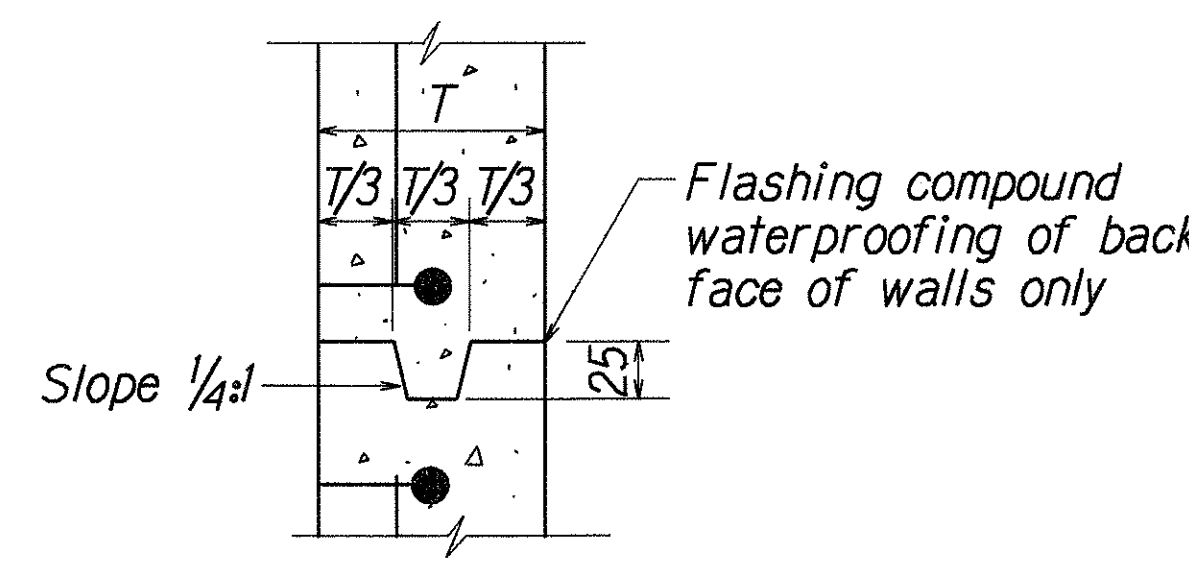
Scale: 1 : 100



ELEVATION

## POLYMER CONCRETE COVER

Not to Scale



## TYPICAL CONSTRUCTION JOINT DETAIL

Not to Scale

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| CHECKED BY        |      |
| ORIGINAL PLAN     |      |
| NOTE BOOK         |      |
| QUANTITIES BY     |      |
| CHECKED BY        |      |

11/00/98 TE-4