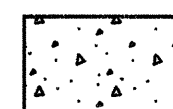


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-099-1(20)	1999	39	44

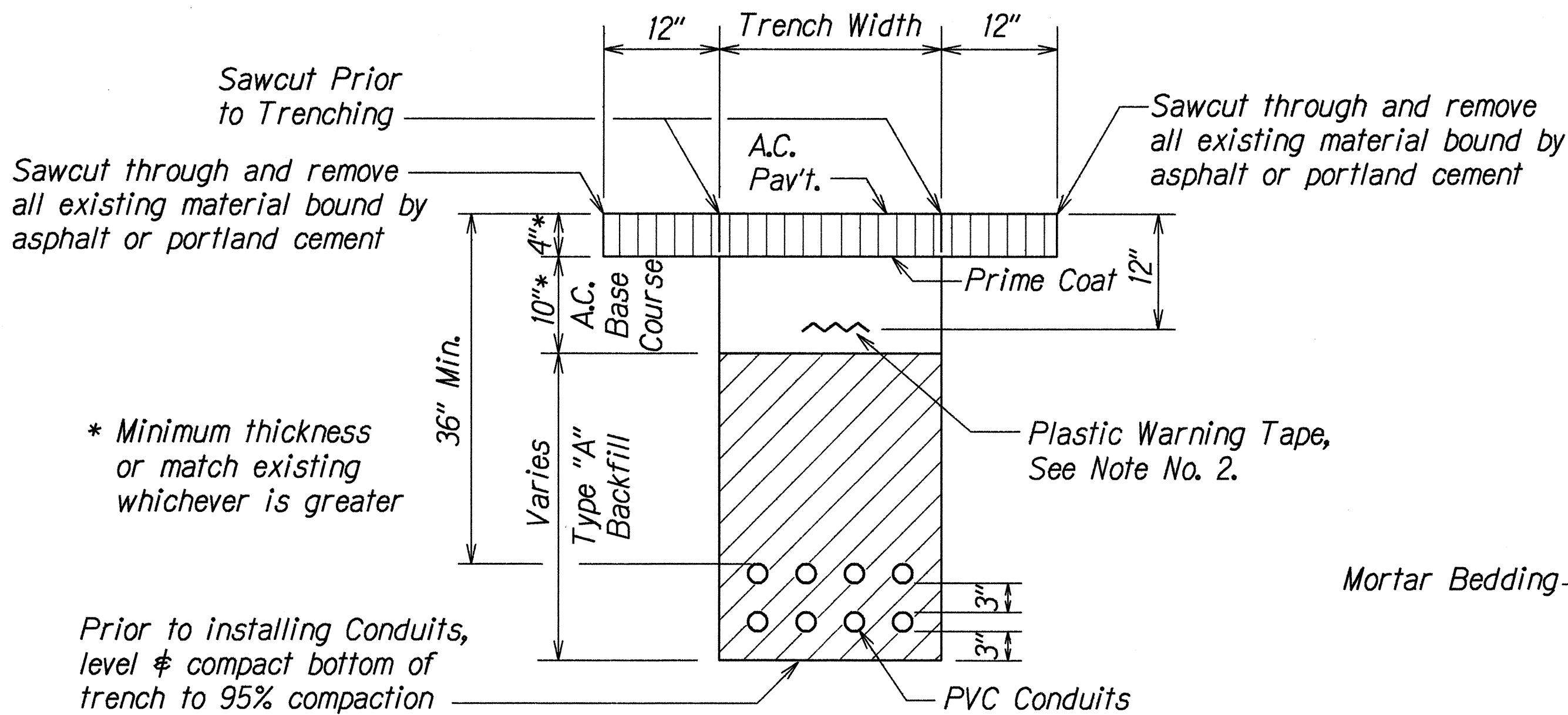
STATE RIGHT-OF-WAY BACKFILL NOTES

- 

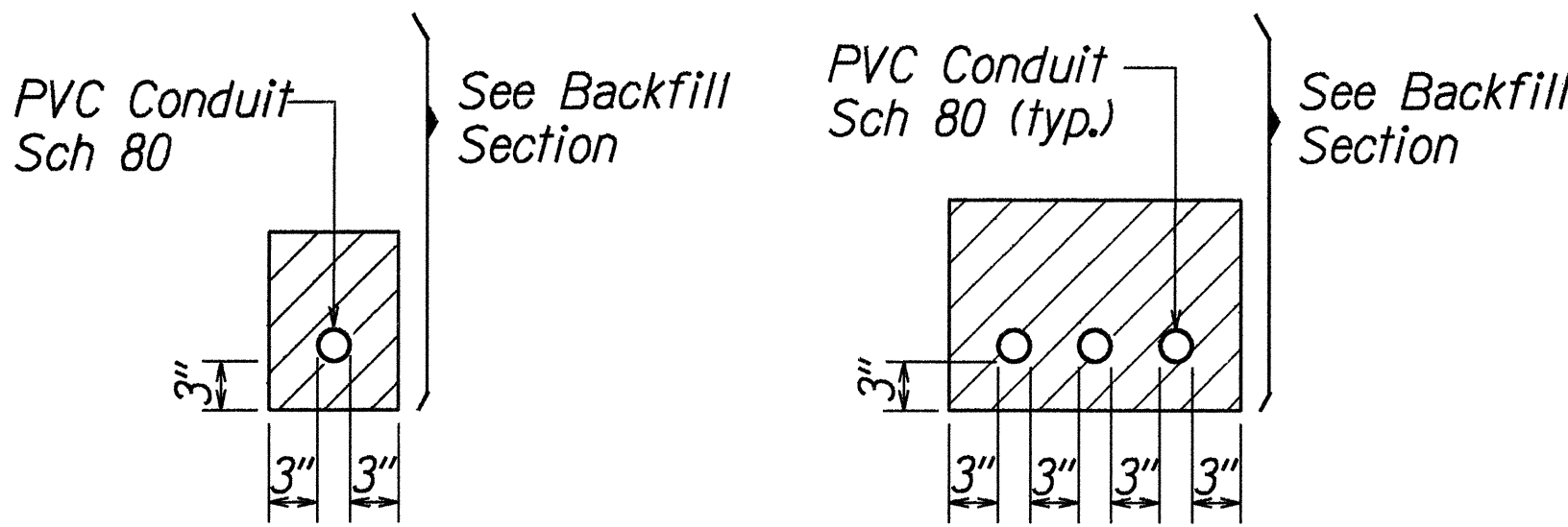
Trench Backfill Material "A"
Beach Sand, Earth, or Earth and Gravel. If Earth and Gravel used, the maximum shall contain not more than 50% by volume of rock particles. Maximum 8" loose fill per lift. Obtain 95% compaction for each lift.
- 

Concrete
3000 psi compressive strength @ 3 days.

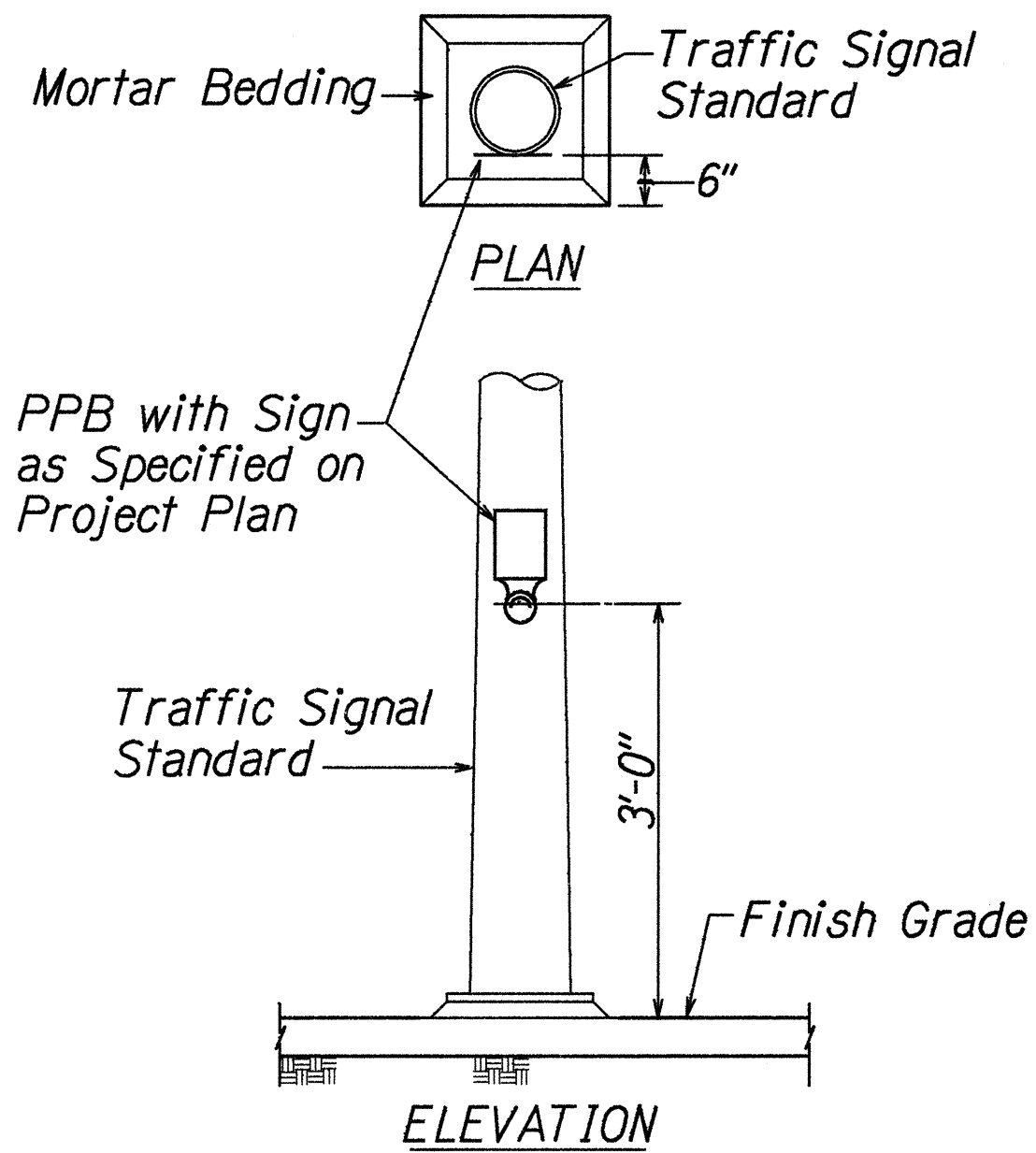
NOTE: Base Course & Sub-Base Course per 1994 State Standard Specifications for Highway Construction.



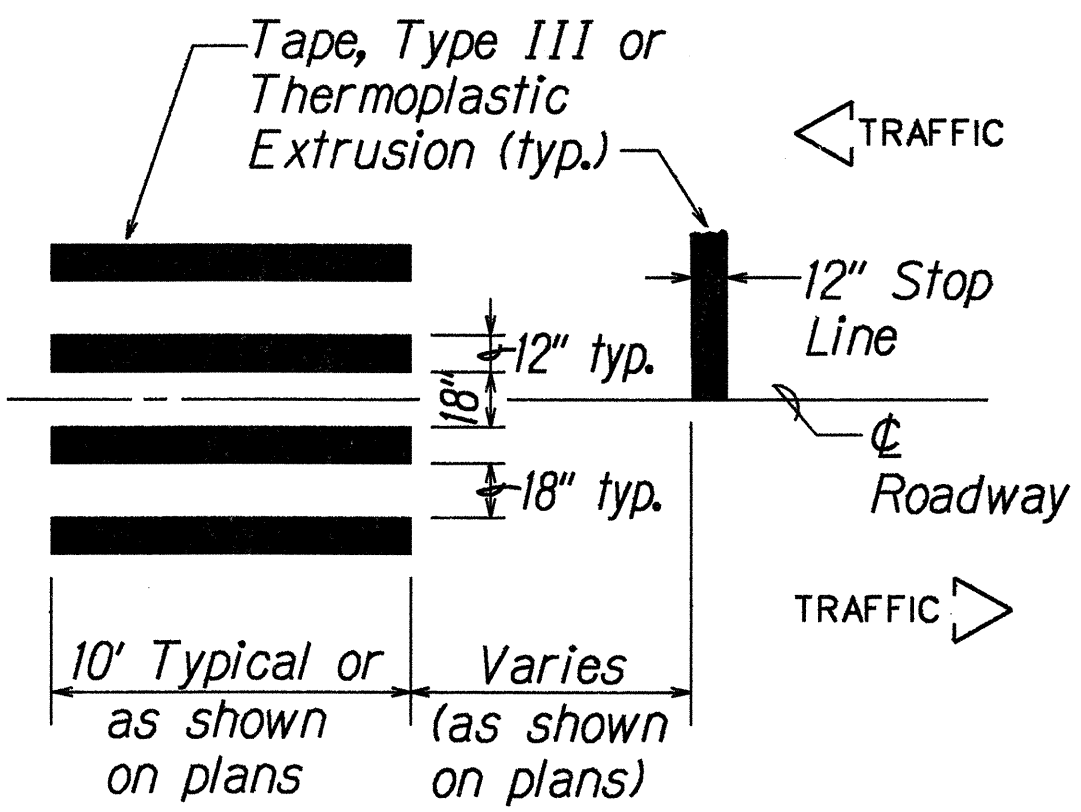
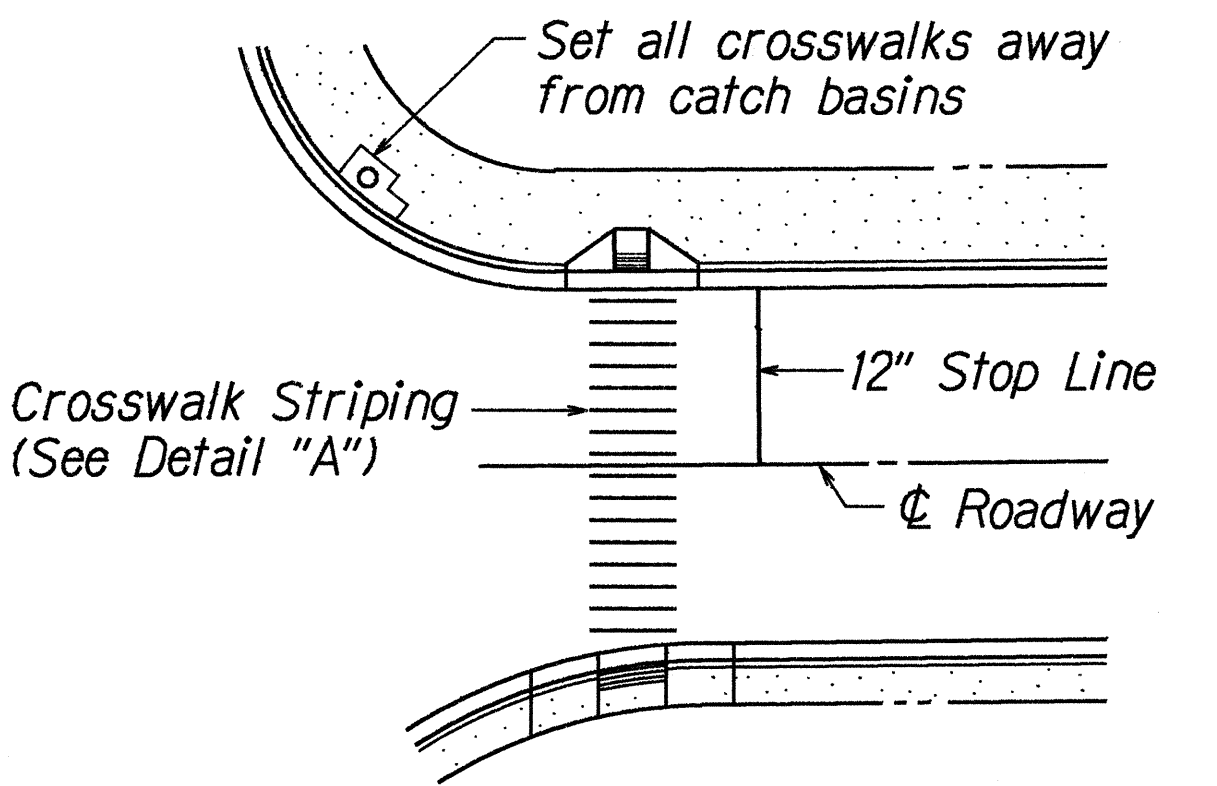
TYPICAL BACKFILL SECTION
DIRECT BURIED DUCTS



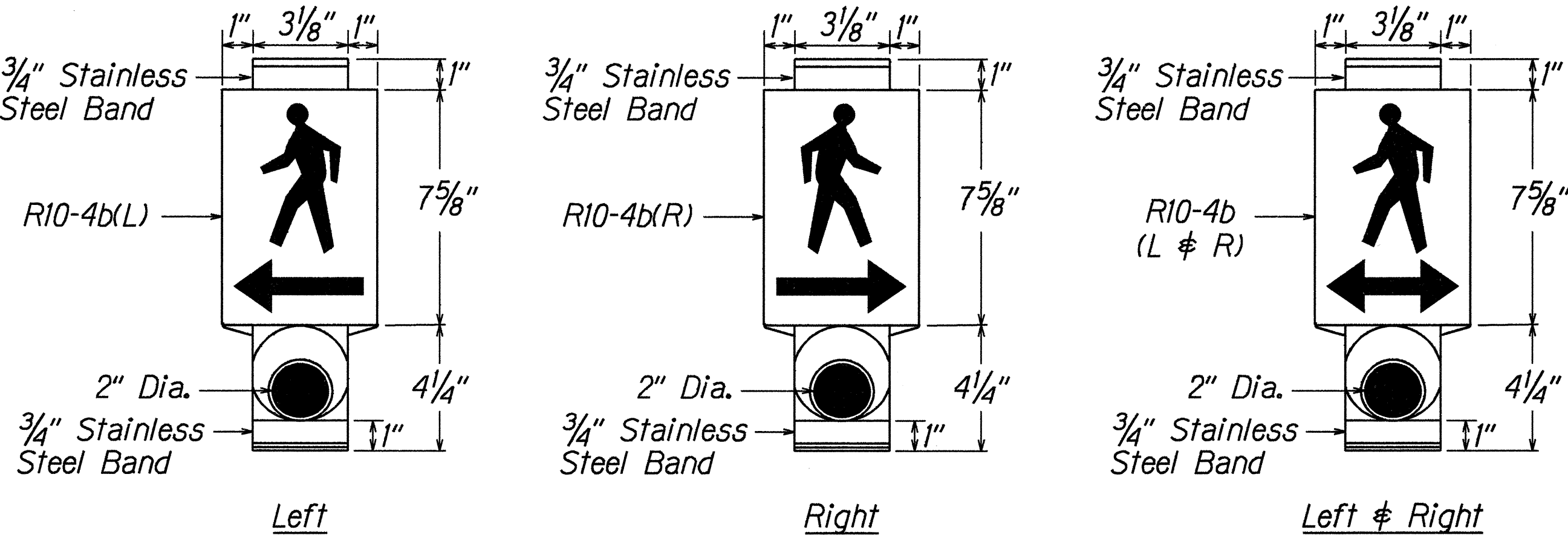
SINGLE CONDUIT MULTIPLE CONDUIT
DUCT SECTIONS - DIRECT BURIED



TYP. PEDESTRIAN PUSHBUTTON
INSTALLATION
Not to Scale



DETAIL "A"
CROSSWALK STRIPING DETAIL
Not to Scale



The color scheme shall be:
White - Man, Arrow and Push Button
Black - Background

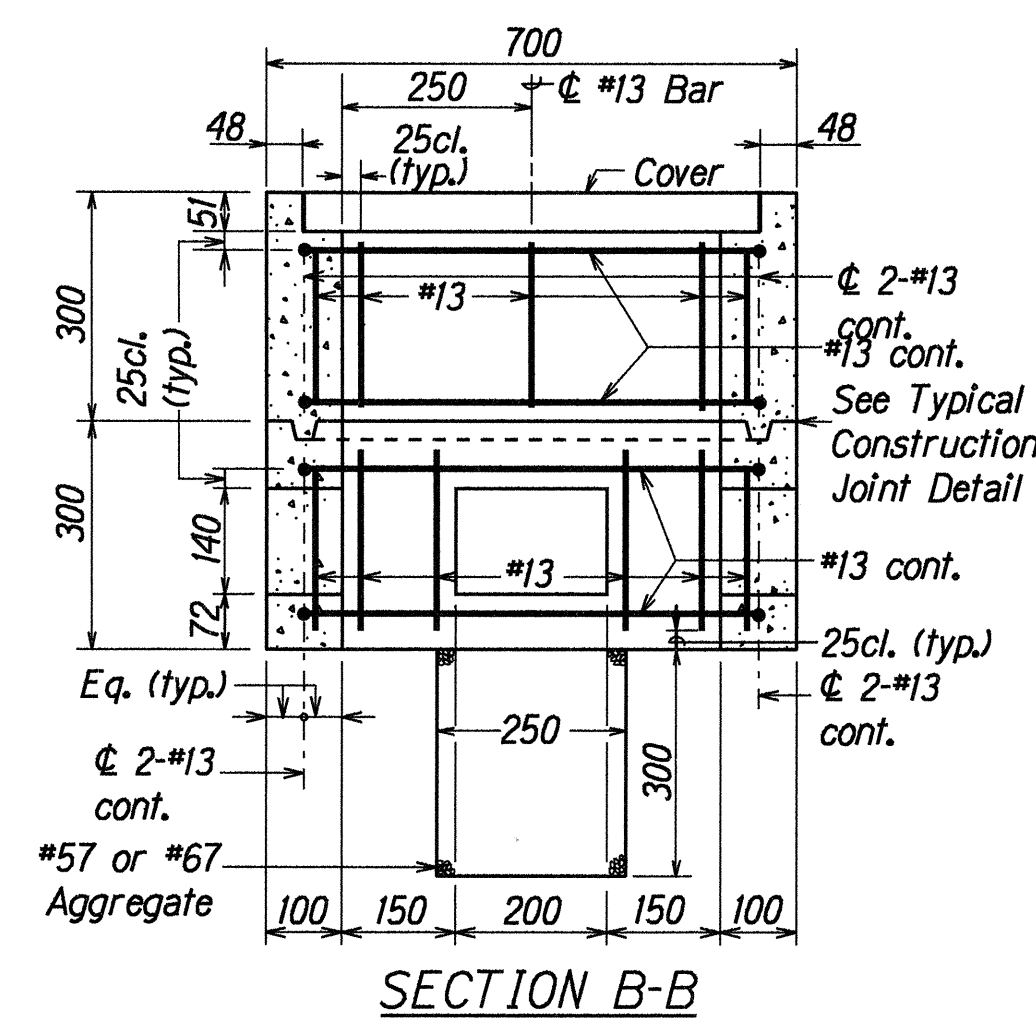
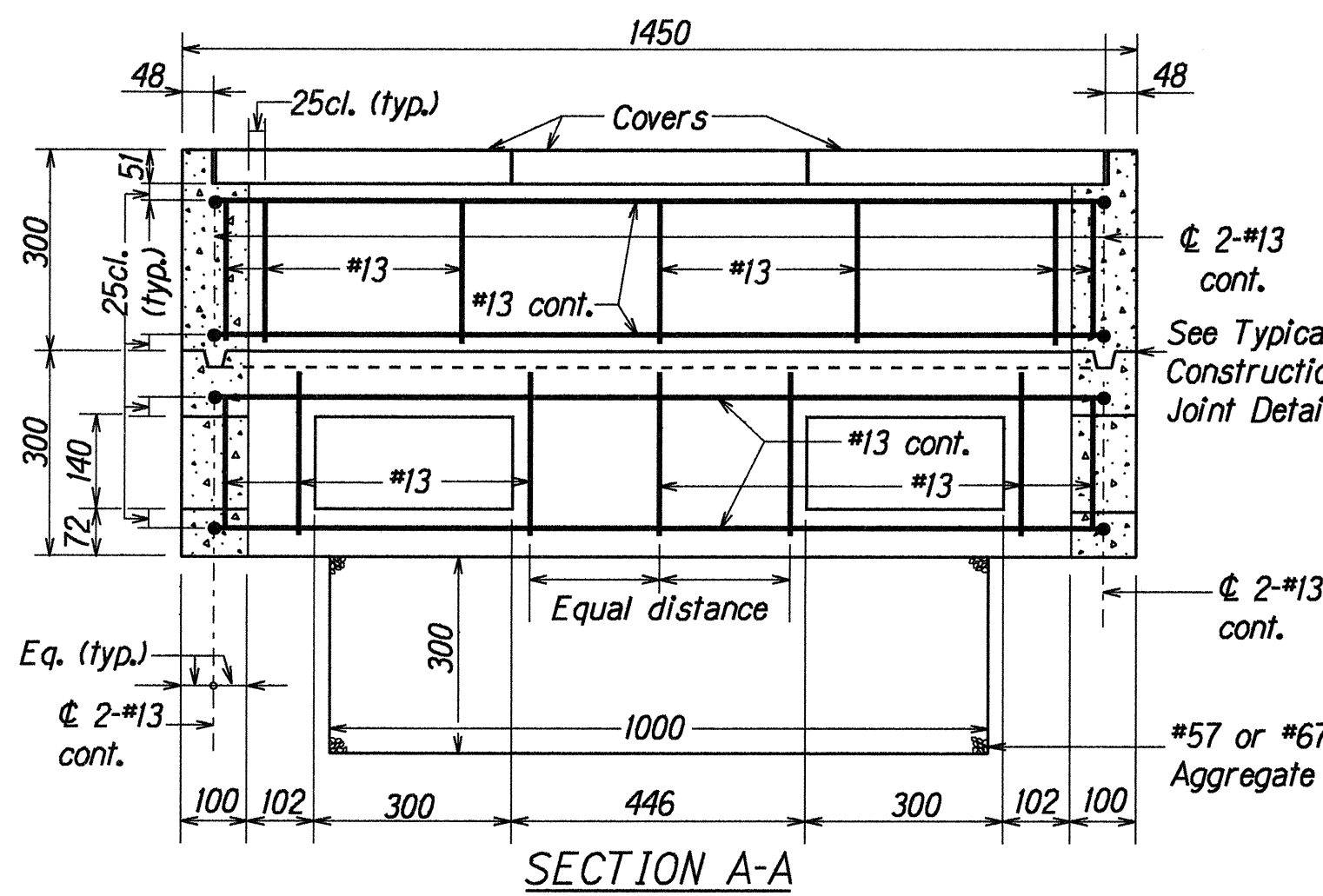
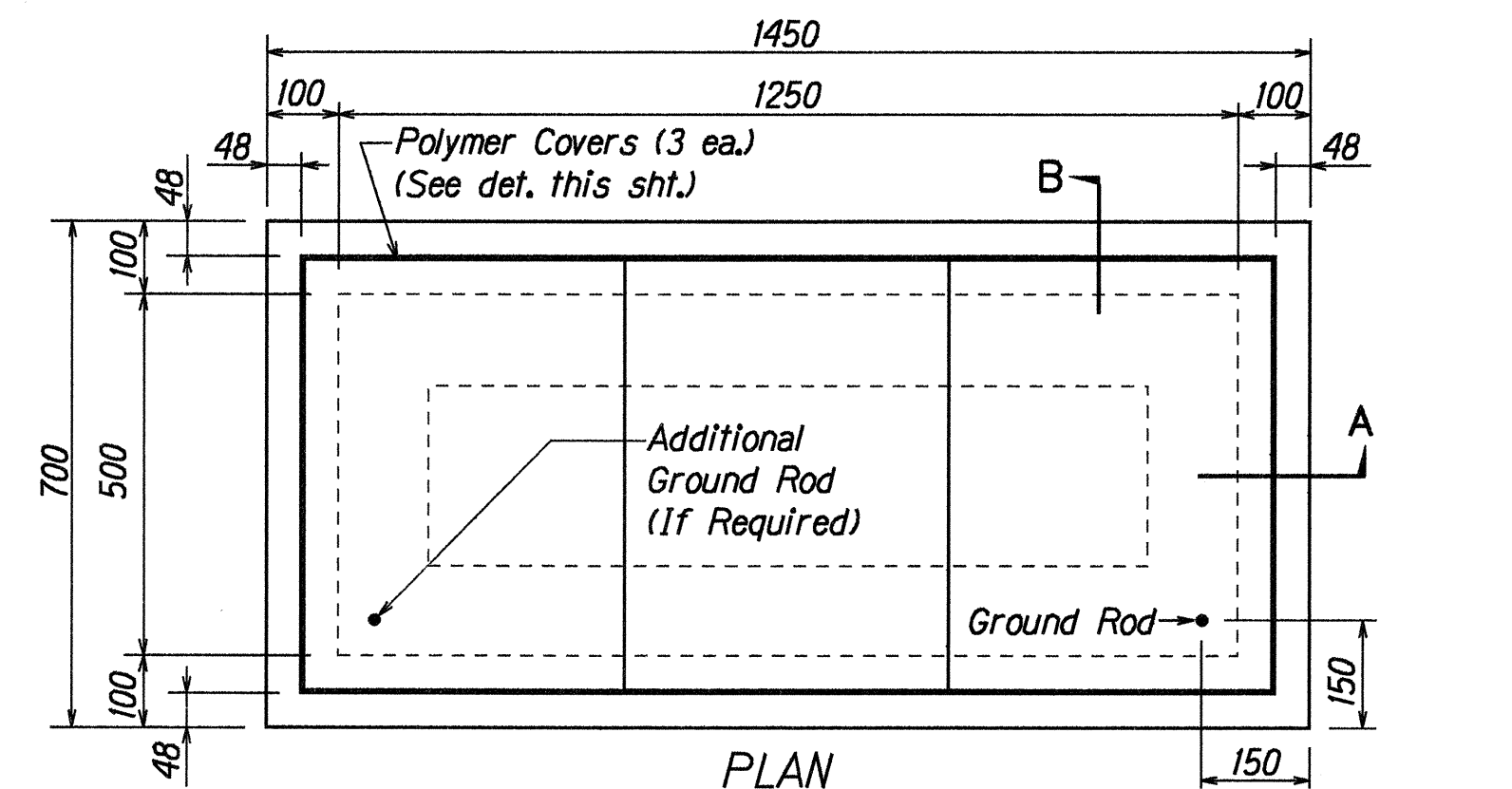
PEDESTRIAN PUSH BUTTON

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

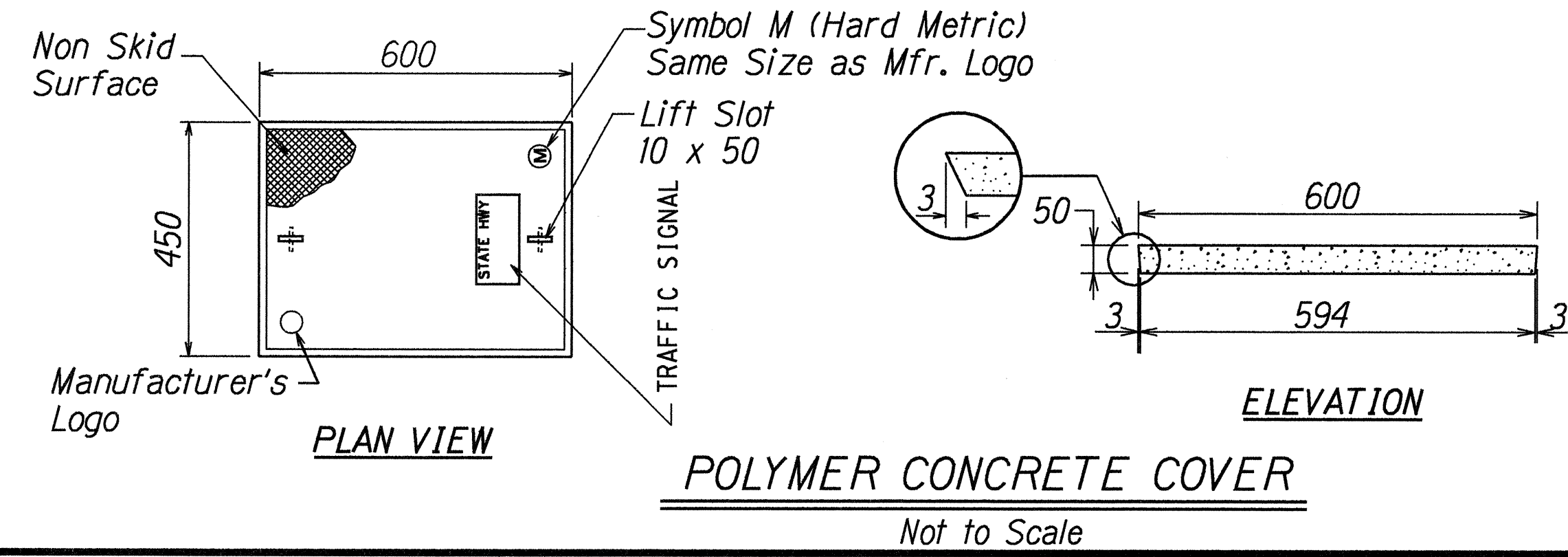
MISCELLANEOUS TRAFFIC DETAILS
KAMEHAMEHA HIGHWAY PEDESTRIAN ACCESSIBLE ROUTE IMPROVEMENTS
Acacia Road to Honomanu Street
Fed. Aid Project No. STP-099-1(20)
Scale: As Noted Date: April, 1999

ORIGINAL PLAN	DATE	5/1/99
DRAWN BY	DESIGNED BY	DESIGNED BY
NOTE BOOK	QUANTITIES BY	QUANTITIES BY
REVISIONS	CHECKED BY	CHECKED BY
1		
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-099-1(20)	1999	40	44

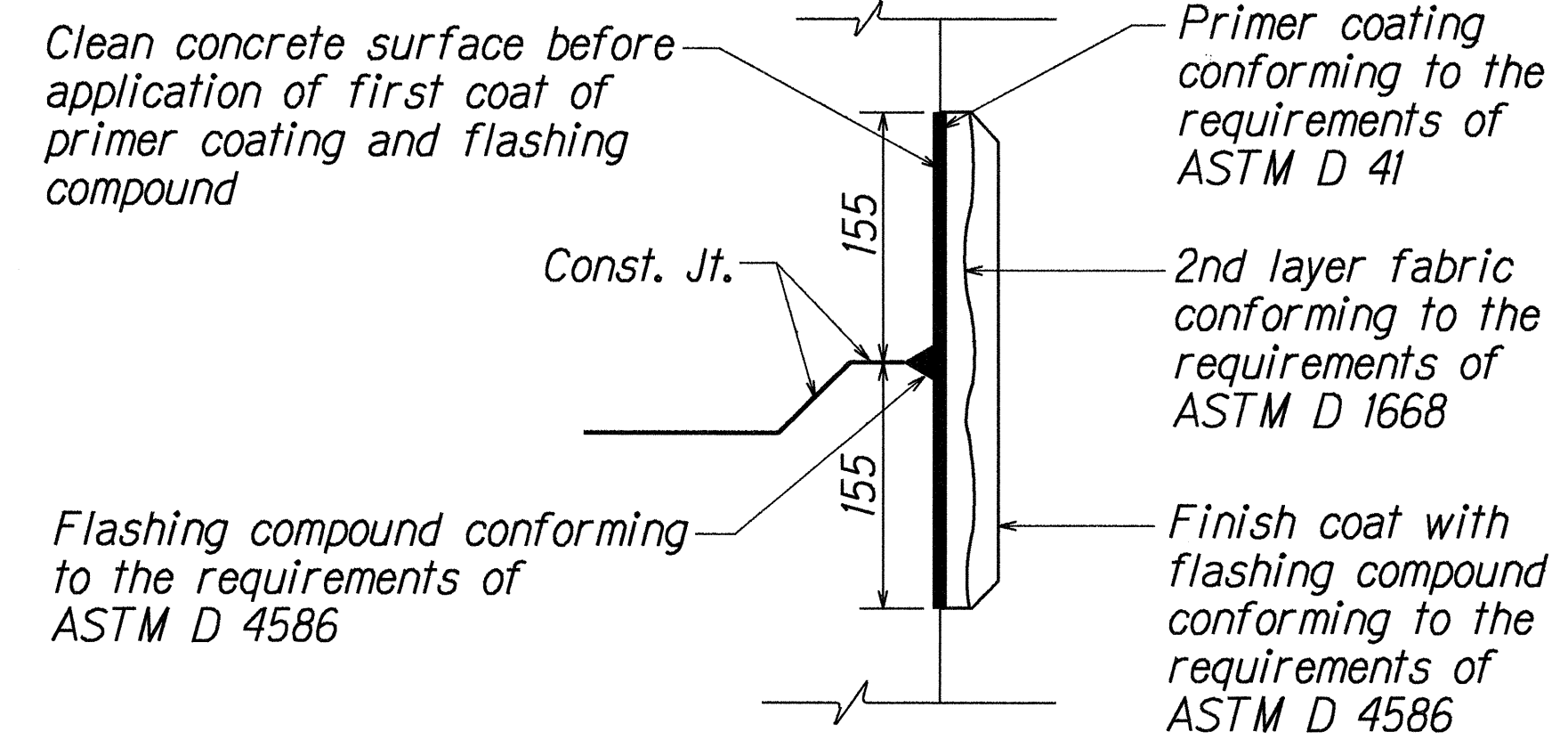


SECTION B-B
TYPE "C" PULLBOX (Old Type "D")
Not to Scale

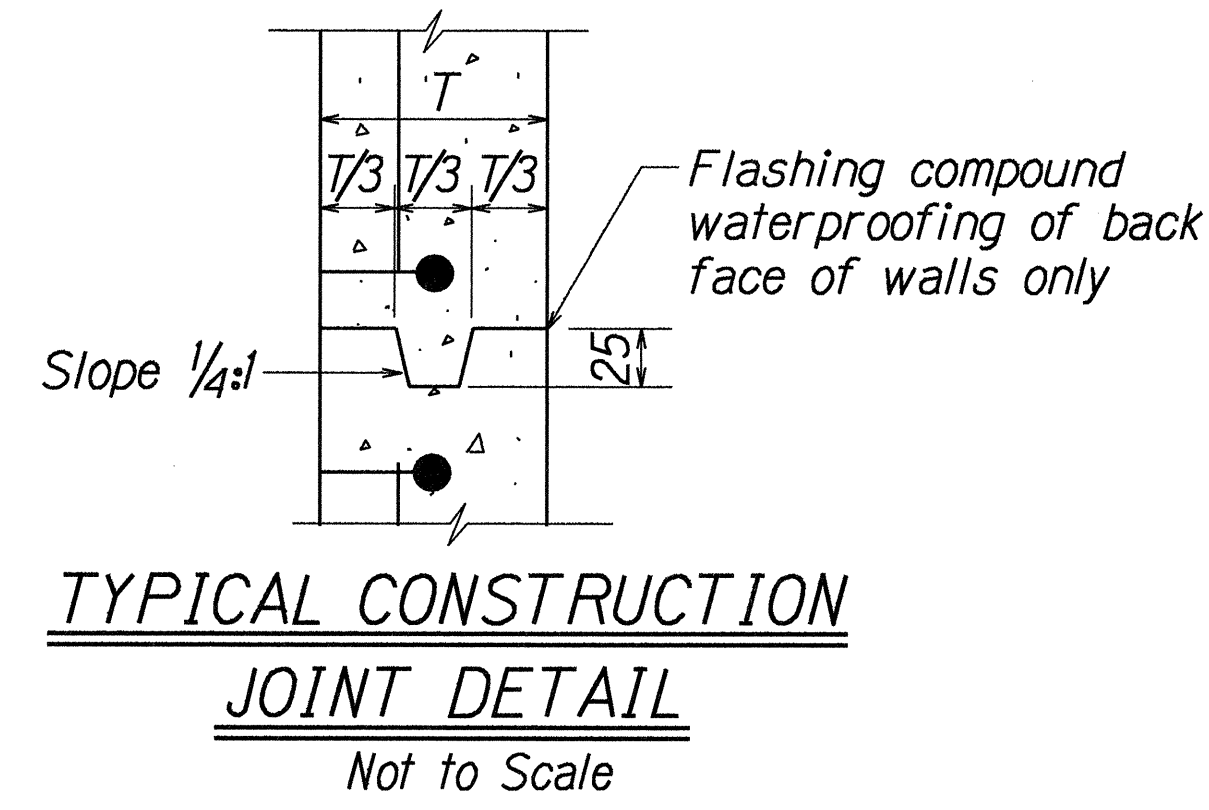


PULLBOX GENERAL NOTES

1. Provide a minimum of one 16 ϕ 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



TYPICAL CONSTRUCTION
JOINT DETAIL
Not to Scale



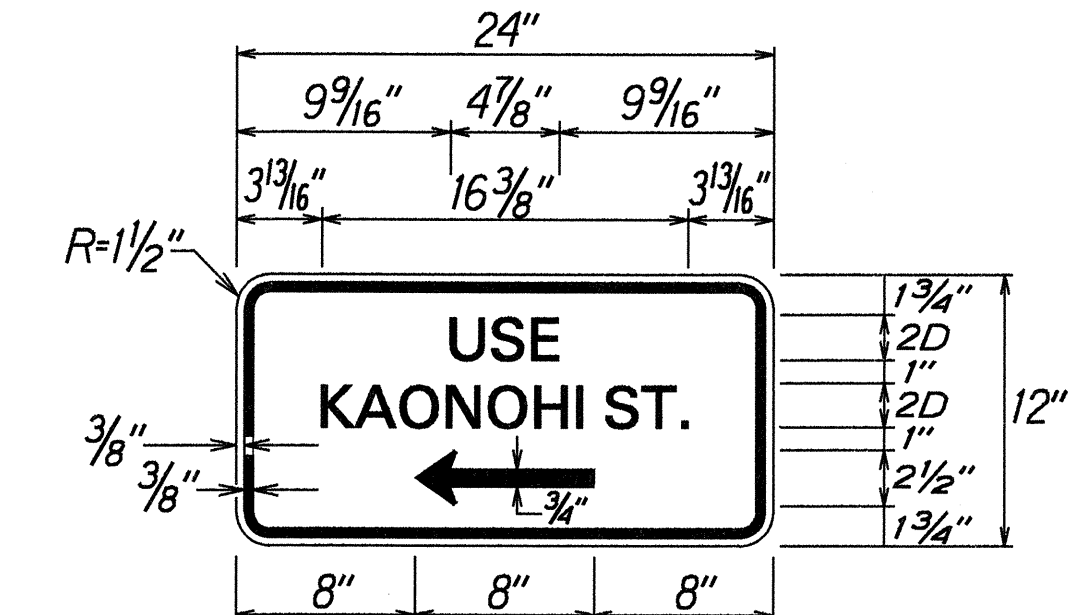
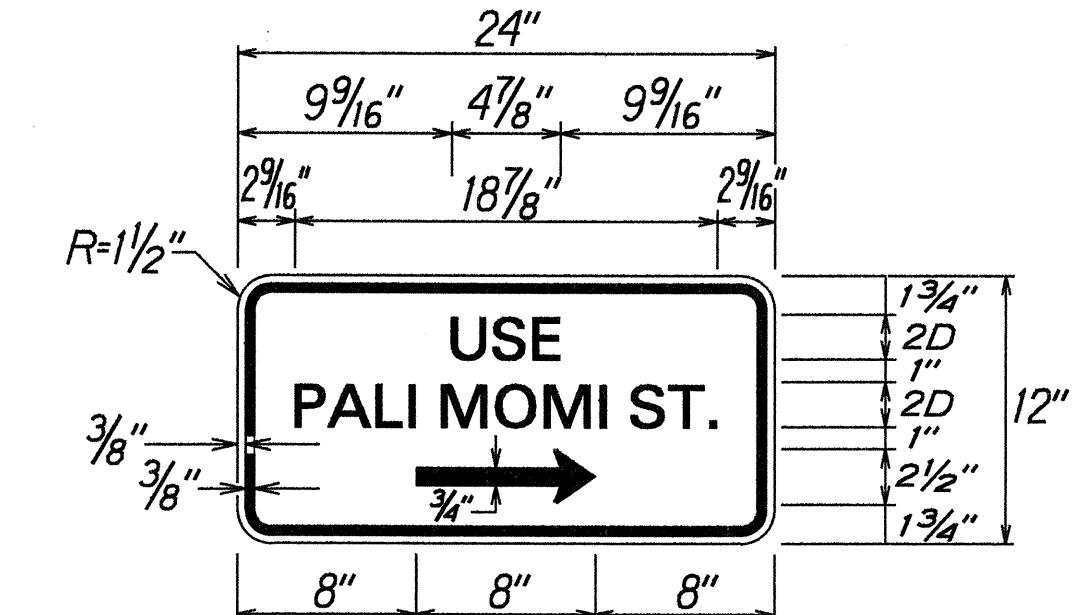
SD9-6
24"X24"



24"X12"



24"X12"

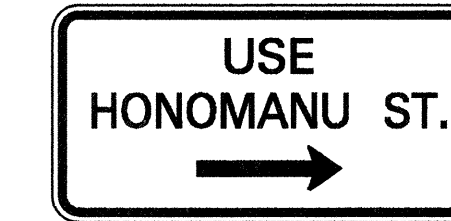


Legend # Border: White (reflectorized)
Background: Blue

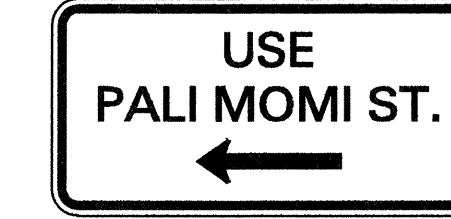
ADA DIRECTIONAL SIGN NO. 1



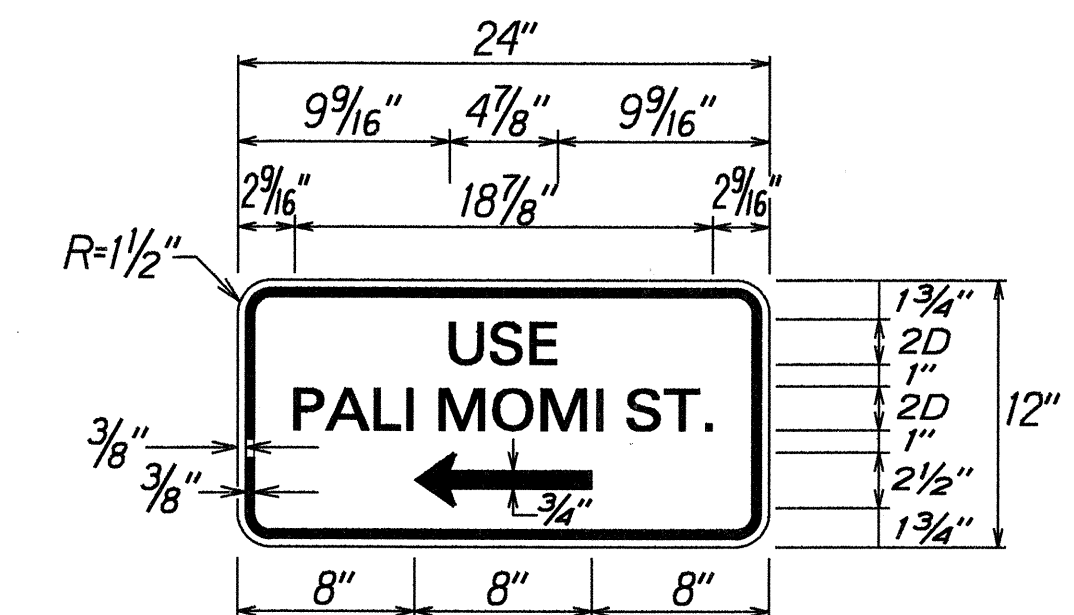
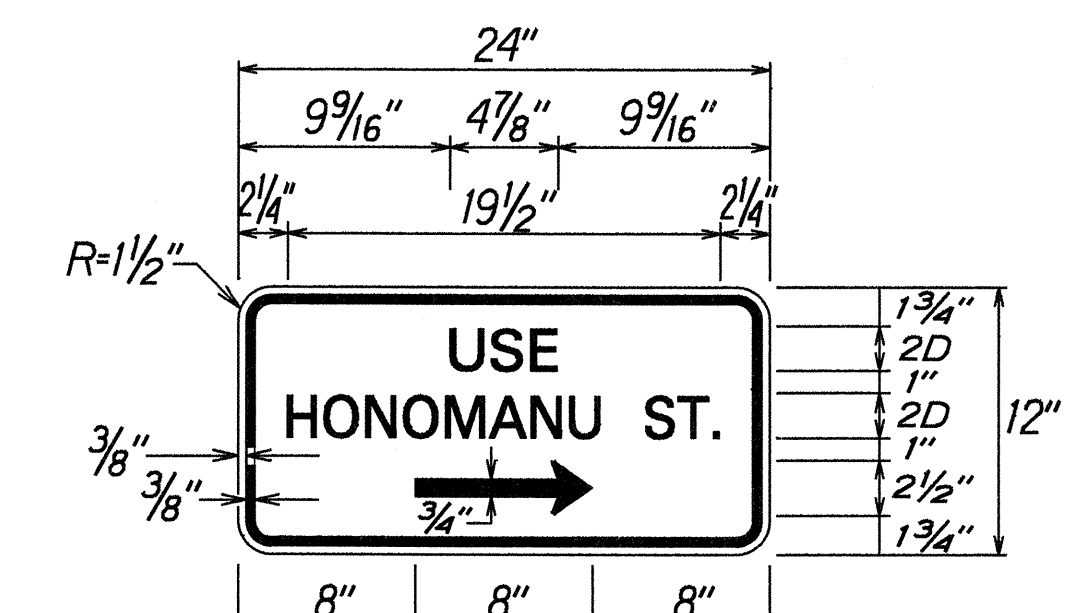
SD9-6
24"X24"



24"X12"



24"X12"



Legend # Border: White (reflectorized)
Background: Blue

ADA DIRECTIONAL SIGN NO. 2

ALL DIMENSIONS ARE IN MILLIMETERS
UNLESS OTHERWISE SHOWN

DATE	REVISION
7/26/00	Added ADA Directional Sign Details.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS TRAFFIC DETAILS

KAMEHAMEHA HIGHWAY PEDESTRIAN
ACCESSIBLE ROUTE IMPROVEMENTS

Acacia Road to Honomanu Street
Fed. Aid Project No. STP-099-1(20)
Scale: As Noted Date: April, 1999

SHEET No. T3 OF 3 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	5/1/99
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
TALENT	
NAKAMINS2	