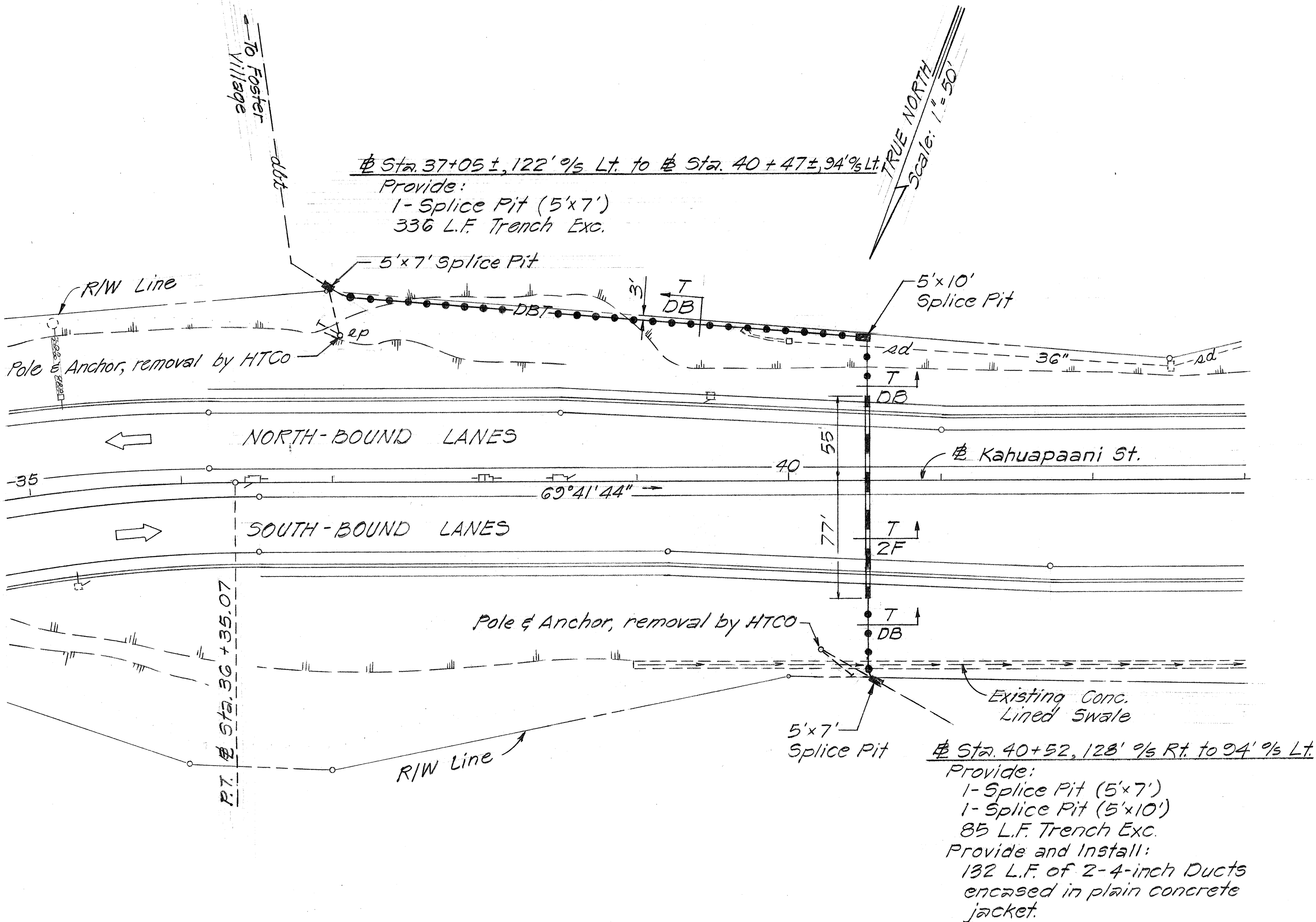
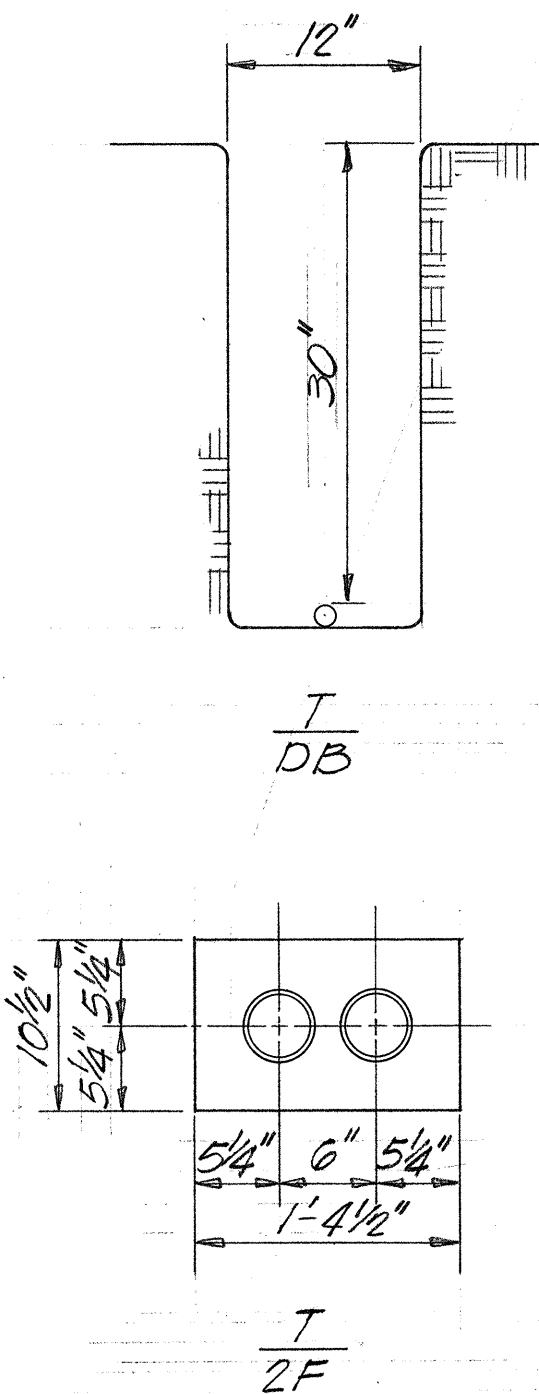


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(90)13	1981	35	112

GENERAL NOTES TELEPHONE SYSTEM

- Existing telephone systems shown on this sheet are located from the best sources available; the Contractor shall check and verify the exact location and depth.
- Contractor to stake out proposed ductlines, trenches and splice pits locations; the utility to approve location before Contractor undertakes excavation.
- Minimum depth of ductlines from finish grade to top of concrete jacket where ducts are encased = 3'-0" unless otherwise shown.
- Ducts encased in concrete jackets:
 - Normal distance from face of jacket to all ducts to be 3" minimum.
 - Clear distance of 1 1/2" minimum between ducts.
- All ducts designed for installation in concrete jacket shall be inspected and approved by a representative of HTCo before concrete placing. Forty-eight (48) hr. (min) notice shall be given before placing concrete.
- Pole and anchor removal by HTCo and/or its Contractor.
- Drawings issued by HTCo shall be included as part of documents of this project.
- Slope ductlines to drain.
- All cable laying and splice work by HTCo.
- All ducts will be 4-inches and will be furnished and installed by the Contractor.
- The 5x10 splice pit is identical to standard 5x7 splice pit except for being 3-ft. longer in length.
- Restoration of existing pavements and improvements demolished by utility installation shall be incidental to various contract items. Restoration shall be to original or better condition.

DUCT SECTIONS N.T.S.



ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NO.	

APPROVED

H. Uehara
Hawaiian Telephone Co., Ltd.

4-14-81
Date

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

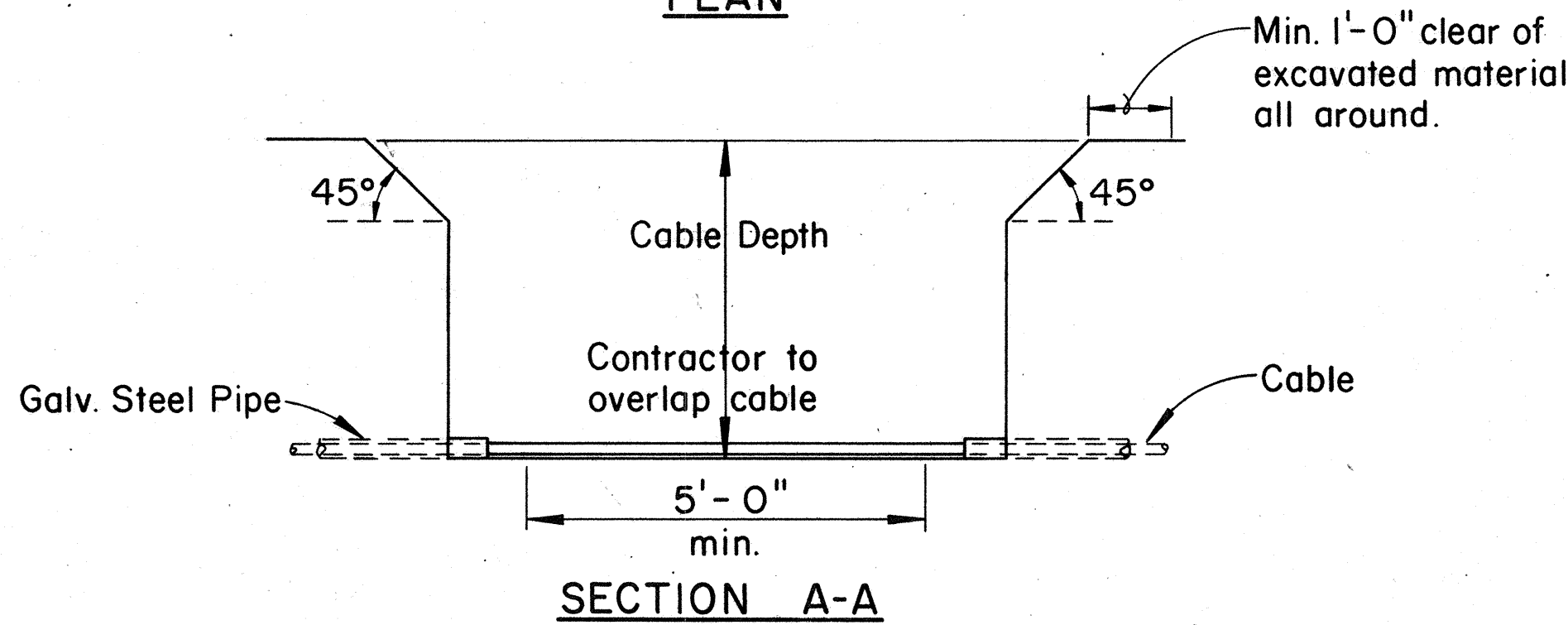
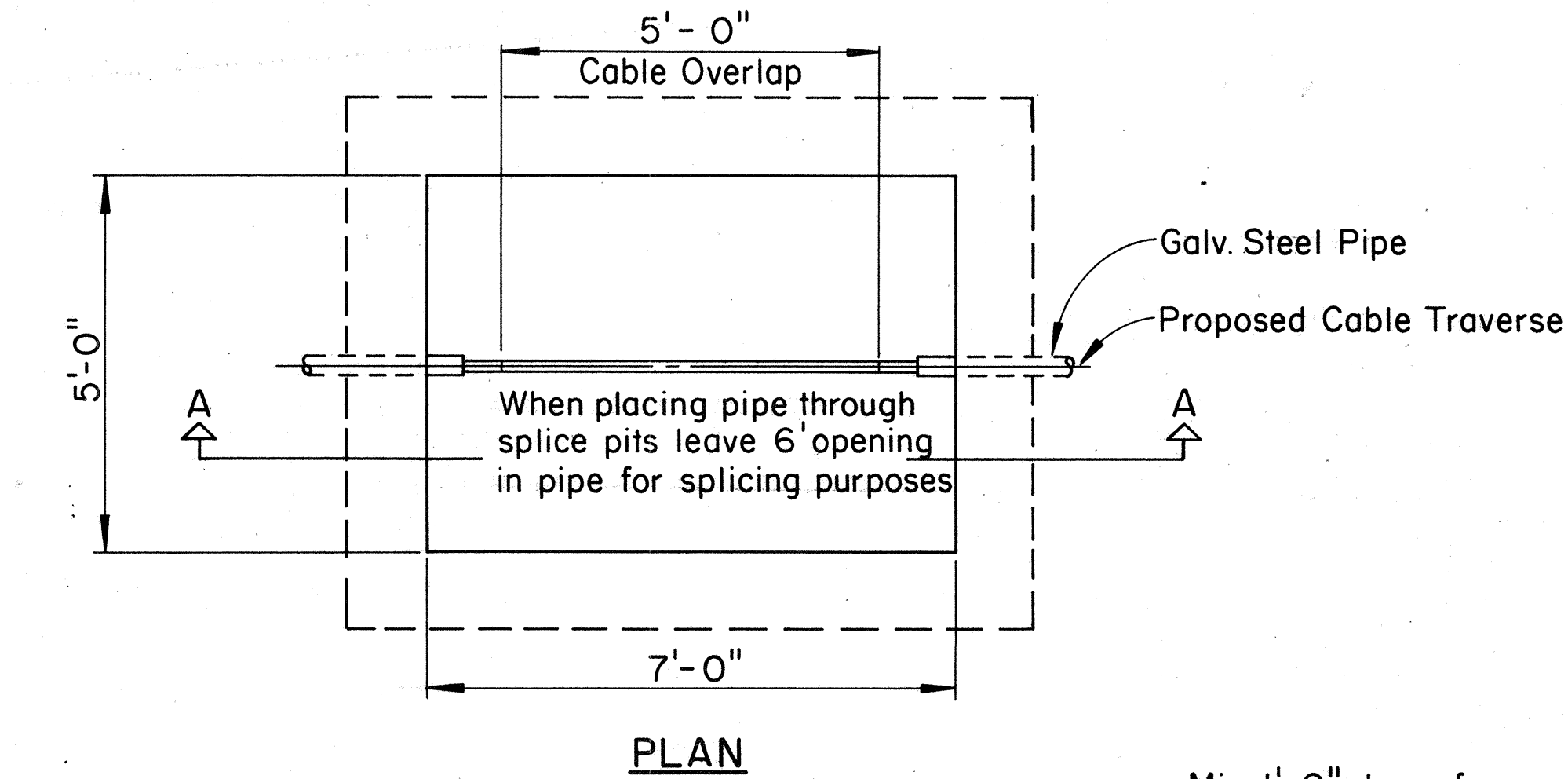
UTILITY
TELEPHONE

INTERSTATE ROUTE H-1
HALANA INTERCHANGE
KAHUAPAANI STREET
F.A.I. Proj. No. I-HI-1(90)13

Scale: As Shown
Date: April, 1981

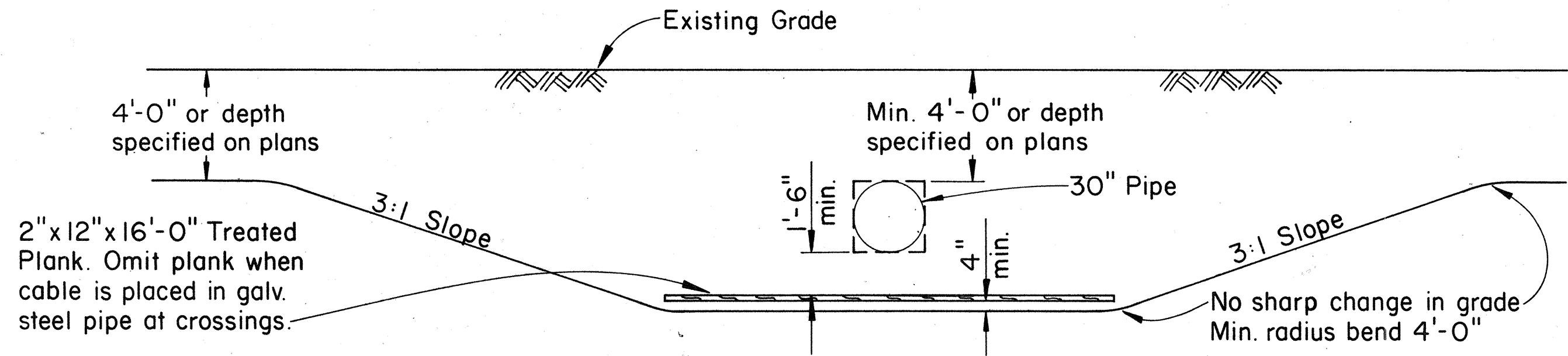
SHEET No. 1 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(36)13	1981	36	112

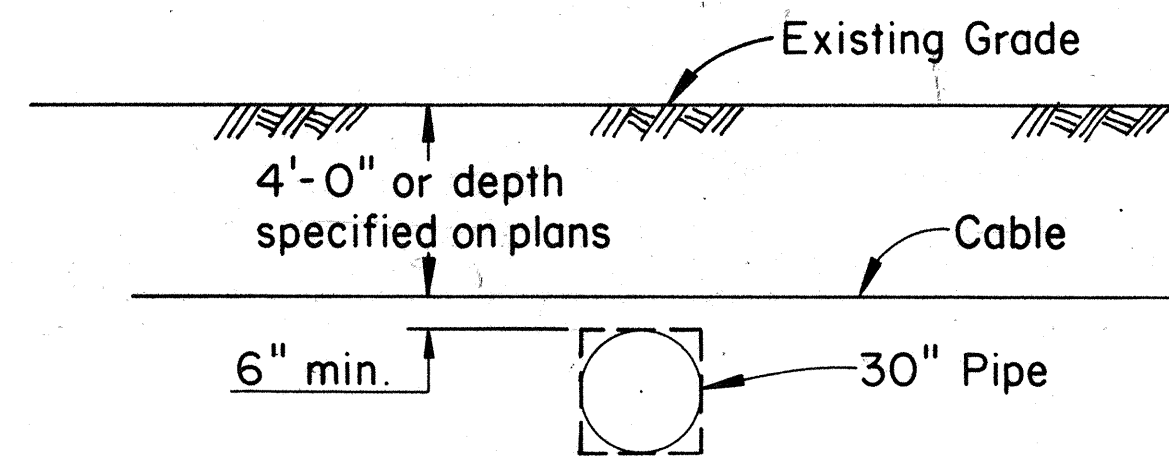


TYPICAL SPLICING PITS FOR BURIED CABLE

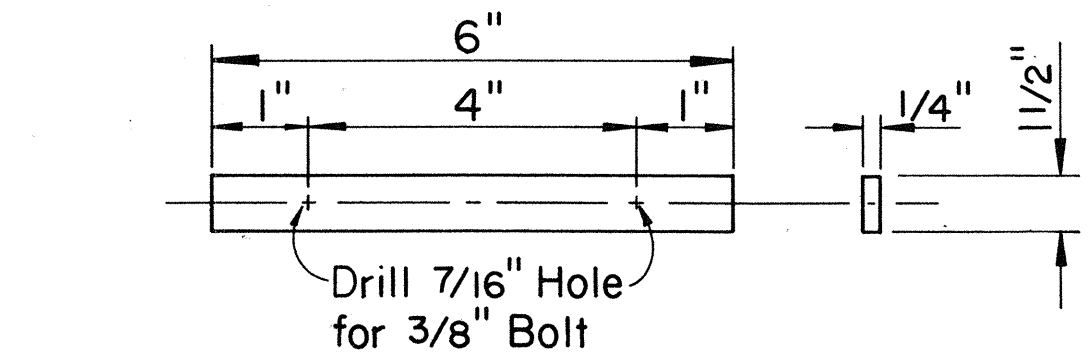
- NOTES:
1. The Contractor shall dig pits at specified locations.
 2. One face of pit shall be kept free of excavated material.
 3. Where pits are located on sloping or irregular ground, the excavated material shall be placed in such a manner as to prevent surface water from draining into the pit.
 4. Provide a fence around the pit at any location where stock have access to the route, and pits near farm homes to keep out small animals and pets.



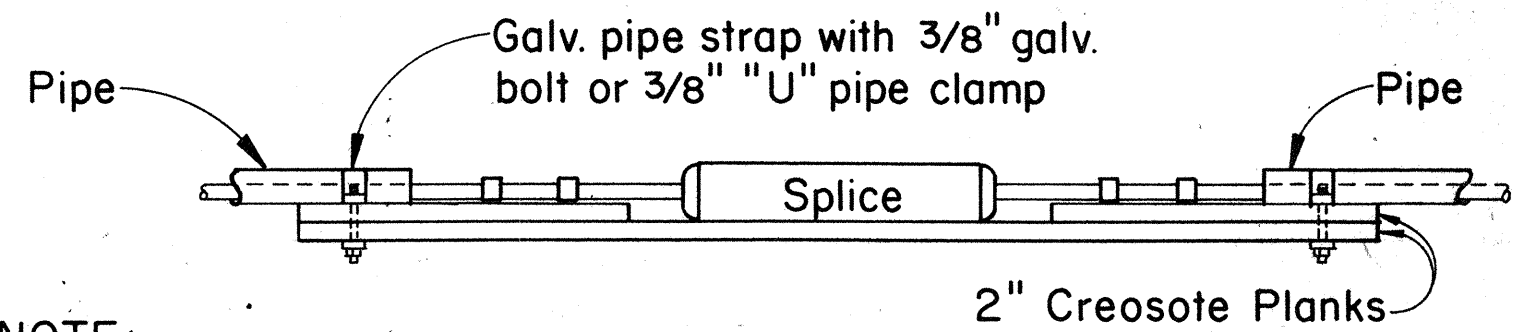
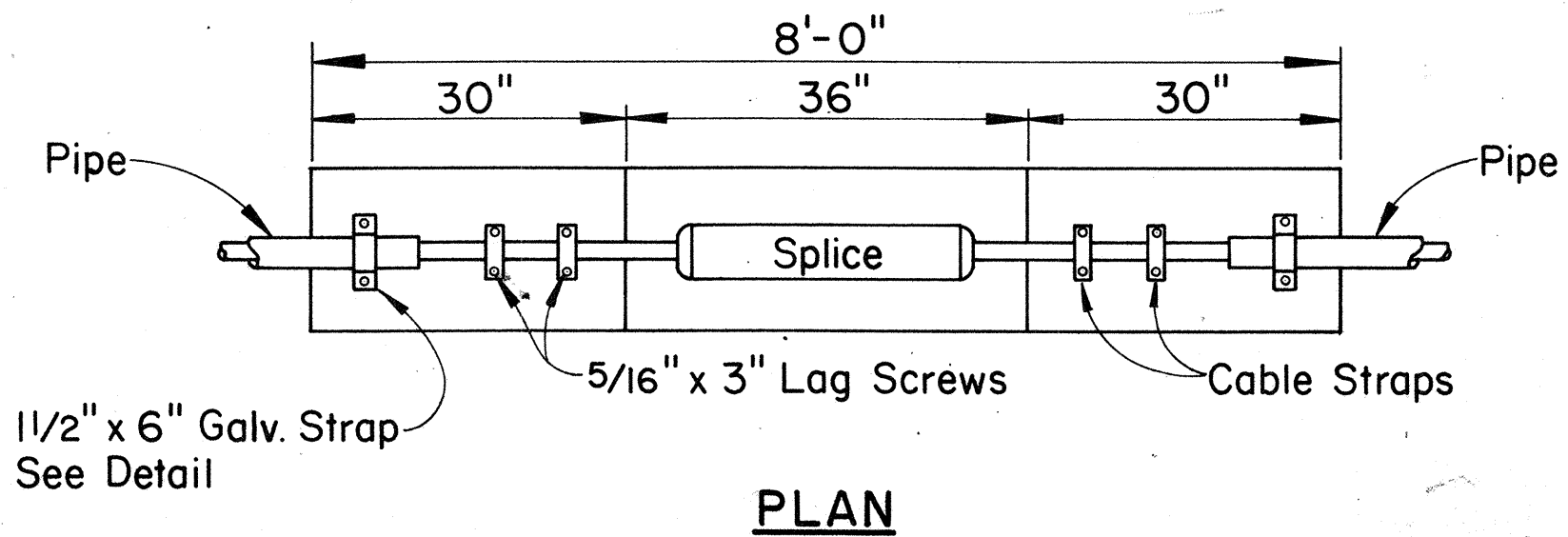
DETAIL OF CABLE CROSSING UNDER STORM CULVERTS-IRRIGATION PIPES, OTHER UTILITIES, OR FOREIGN PIPES



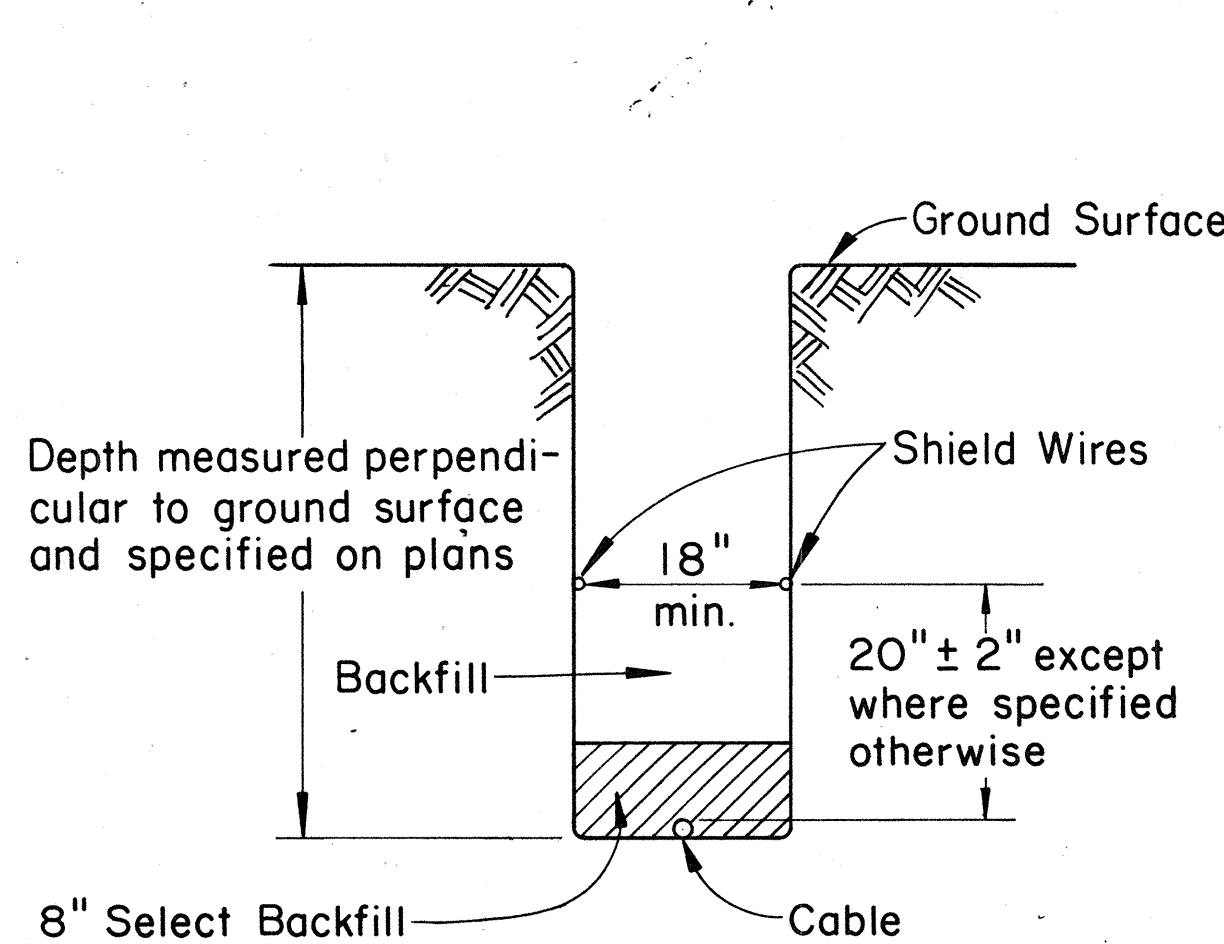
DETAIL OF CABLE CROSSING OVER STORM CULVERTS-IRRIGATION PIPES, OTHER UTILITIES, OR FOREIGN PIPES



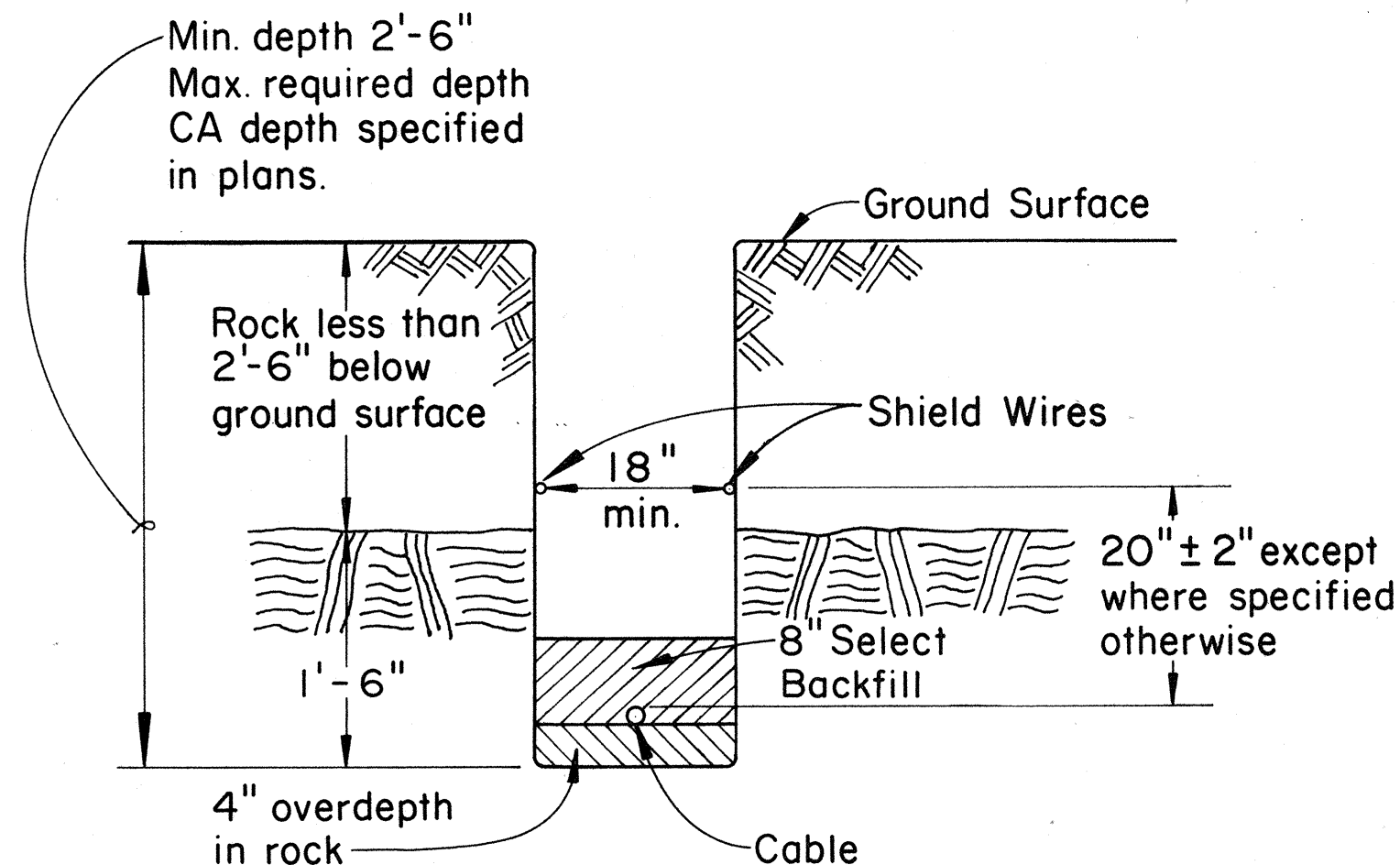
GALVANIZED STRAP DETAIL



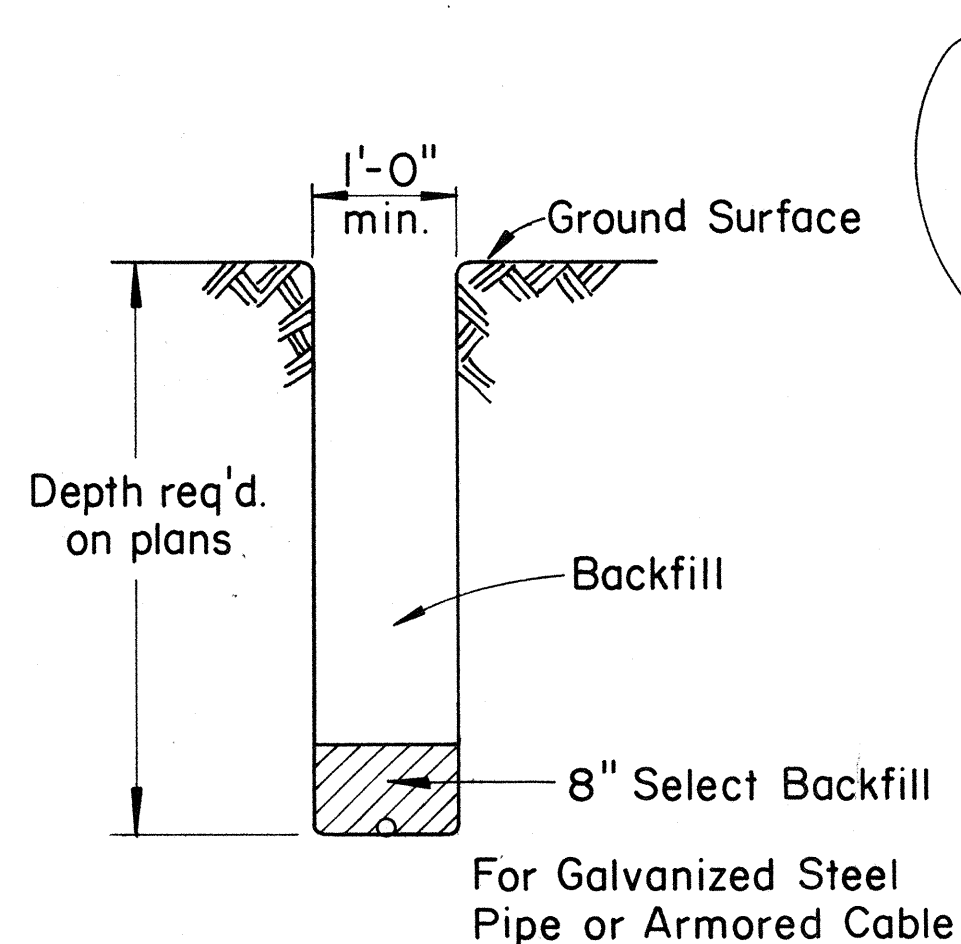
DETAIL OF SPLICE SUPPORT BETWEEN PIPE SECTIONS



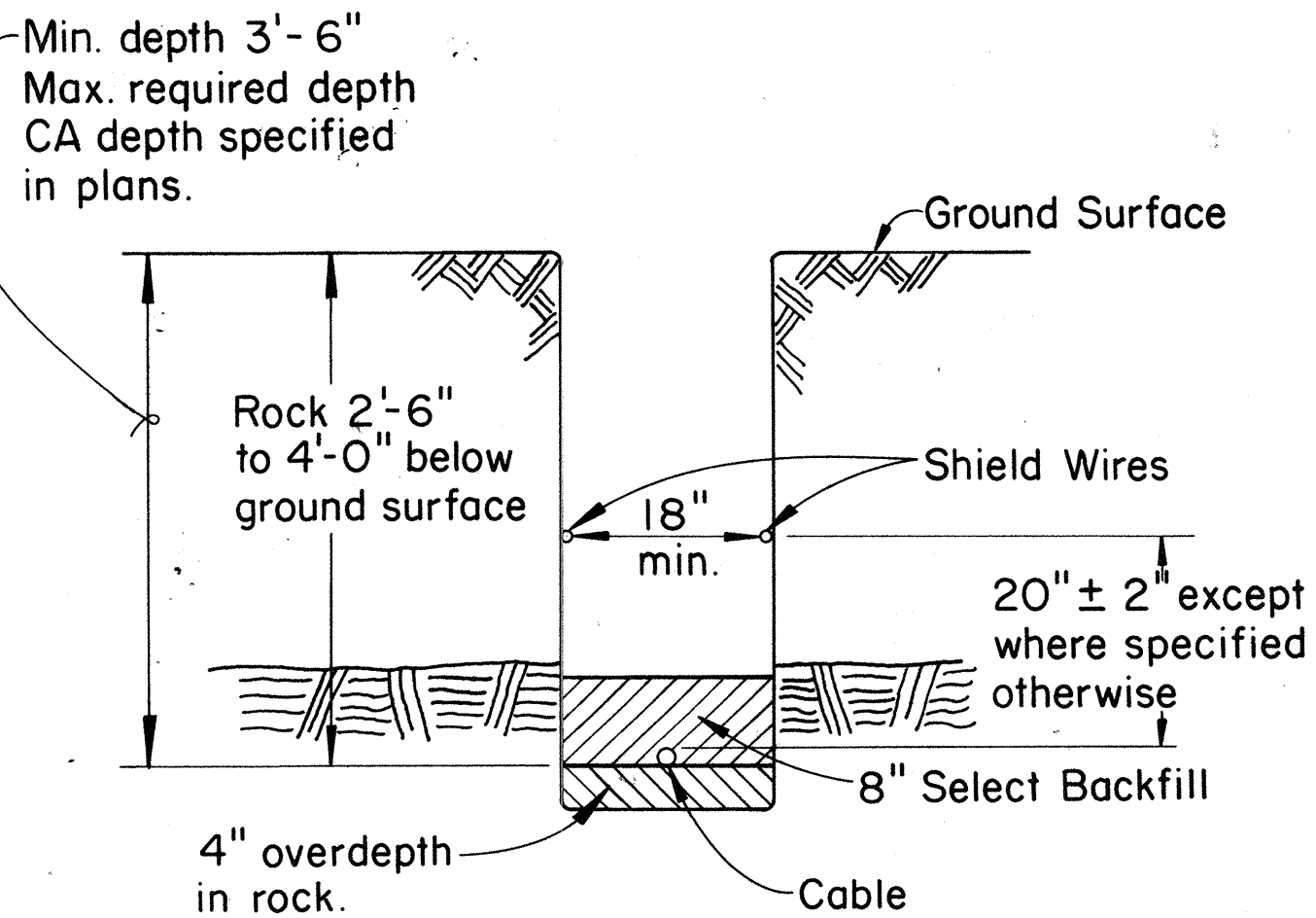
TYPICAL SECTION THROUGH NORMAL TRENCH



TYPICAL SECTION THROUGH TRENCH WITH ROCK LESS THAN 2'-6" BELOW SURFACE



TYPICAL SECTION FOR TRENCH WHERE NO SHIELD WIRE IS REQUIRED



TYPICAL SECTION THROUGH TRENCH WITH ROCK 2'-6" TO 4'-0" BELOW SURFACE

APPROVED: *H. J. [Signature]* 4-14-81
Hawian Telephone Co., Ltd. Date

H.T. Co., Ltd. Drawing Nos. 34047 34048

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STANDARD DETAILS
SPLICING PITS AND
STANDARD TRENCHING DETAILS
FOR BURIED COAXIAL CABLE

Scale: Not to Scale
SHEET No. 2 OF 2 SHEETS