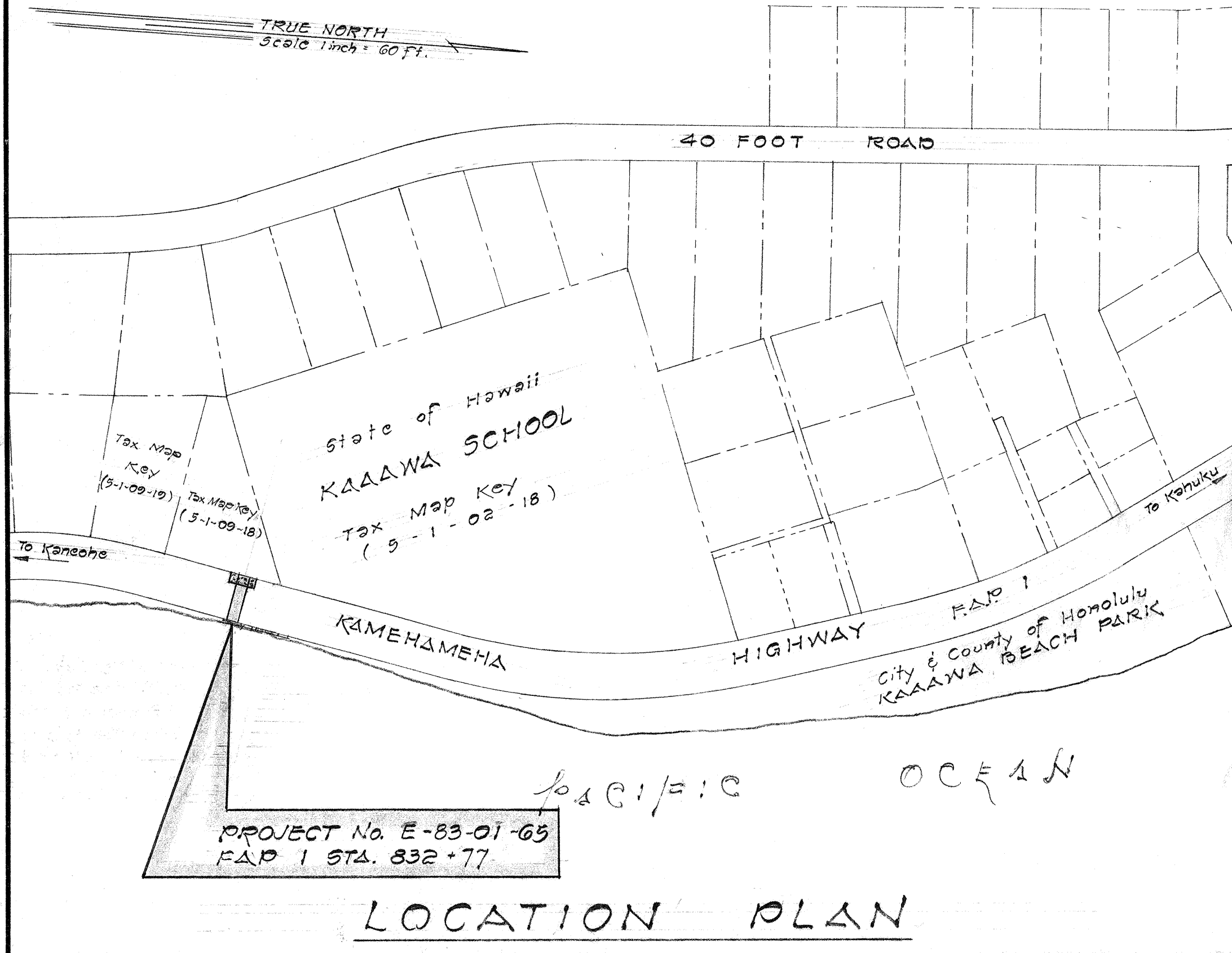
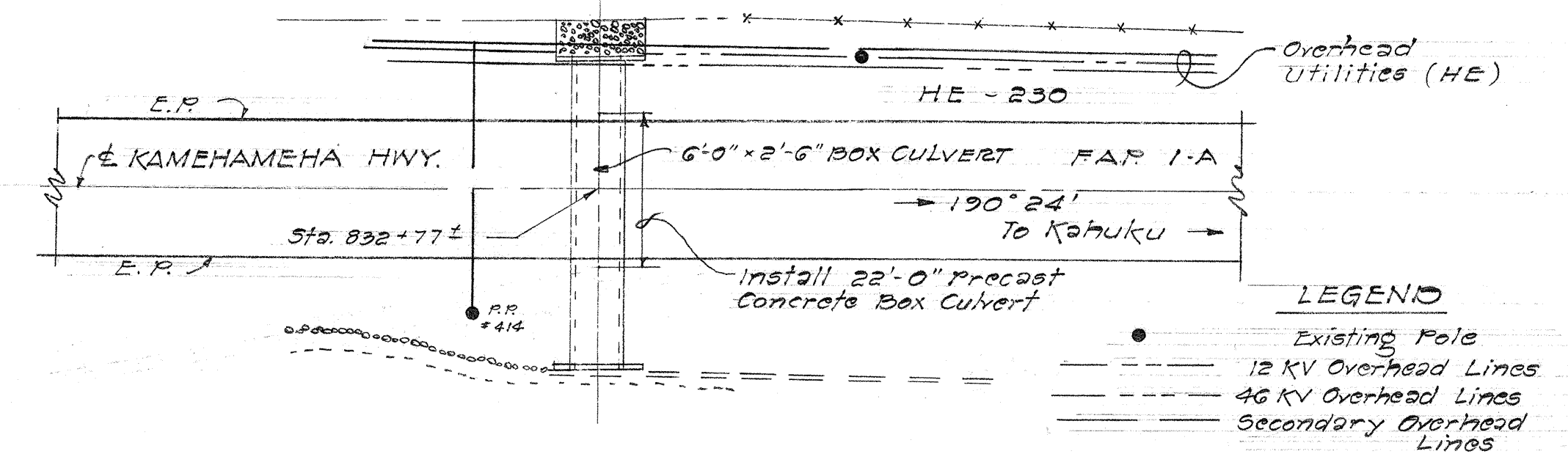
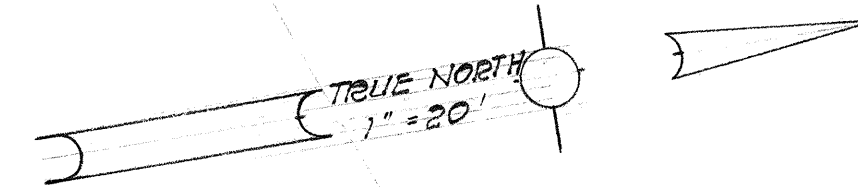


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.				



ESTIMATED QUANTITIES

Structure Exc.	= 102 c.y.
Ditch and Channel Exc.	= 11 c.y.
Concrete in Box Culvert	= 2.5
Class "B-1" Concrete	= 3 c.y.
Reinforcing Steel in Box Culvert	= 1.5
Reinforcing Steel	= 160 Lbs.
Grouted Bubble Raving	= 3 c.y.
Furnishing 6" C.I. Pipe (cl. 250)	= 25 L.F.
Furnishing C.I. Fittings	= 780 Lbs.
Restoring Highway Pavement	= 1.5

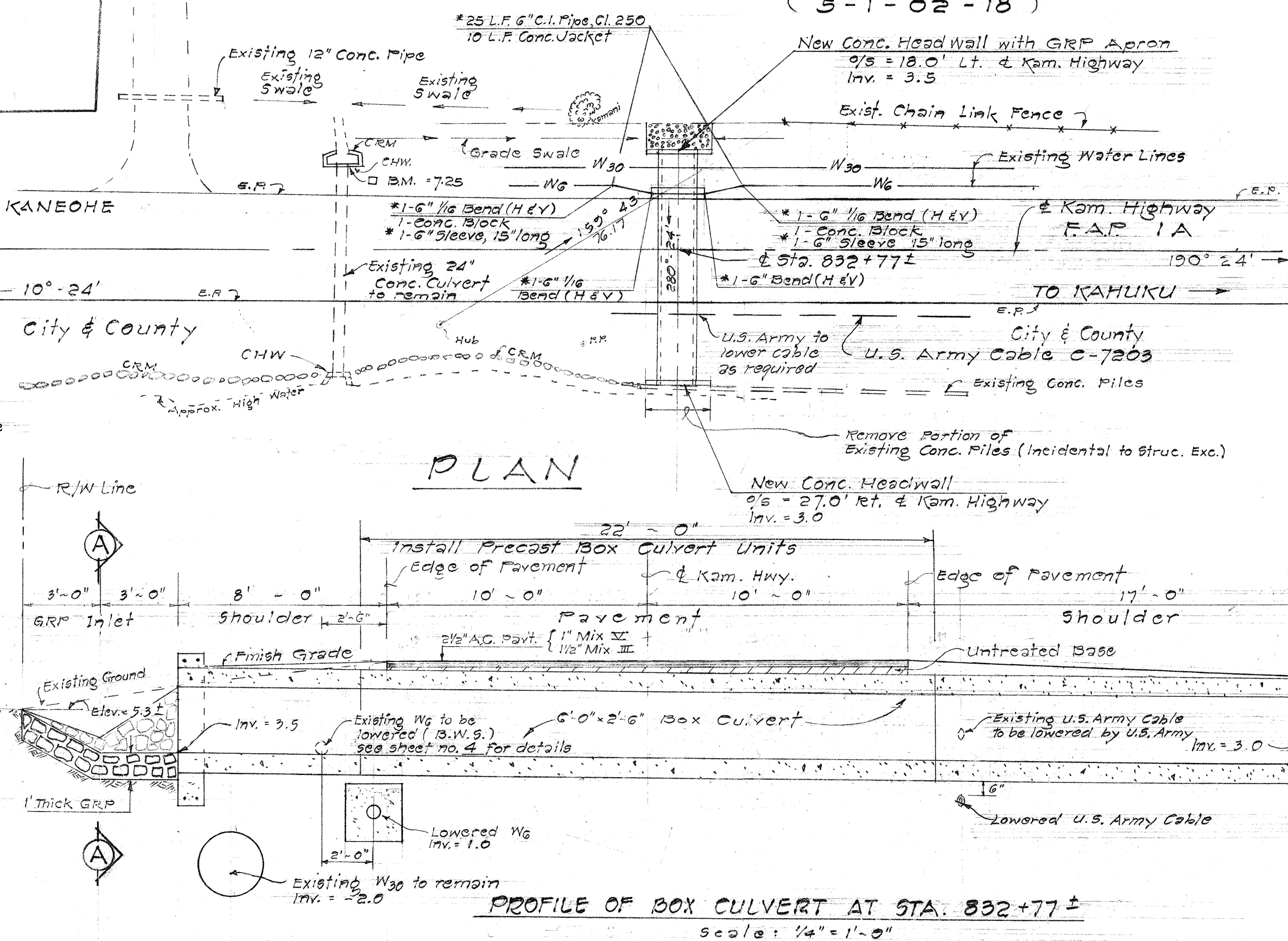
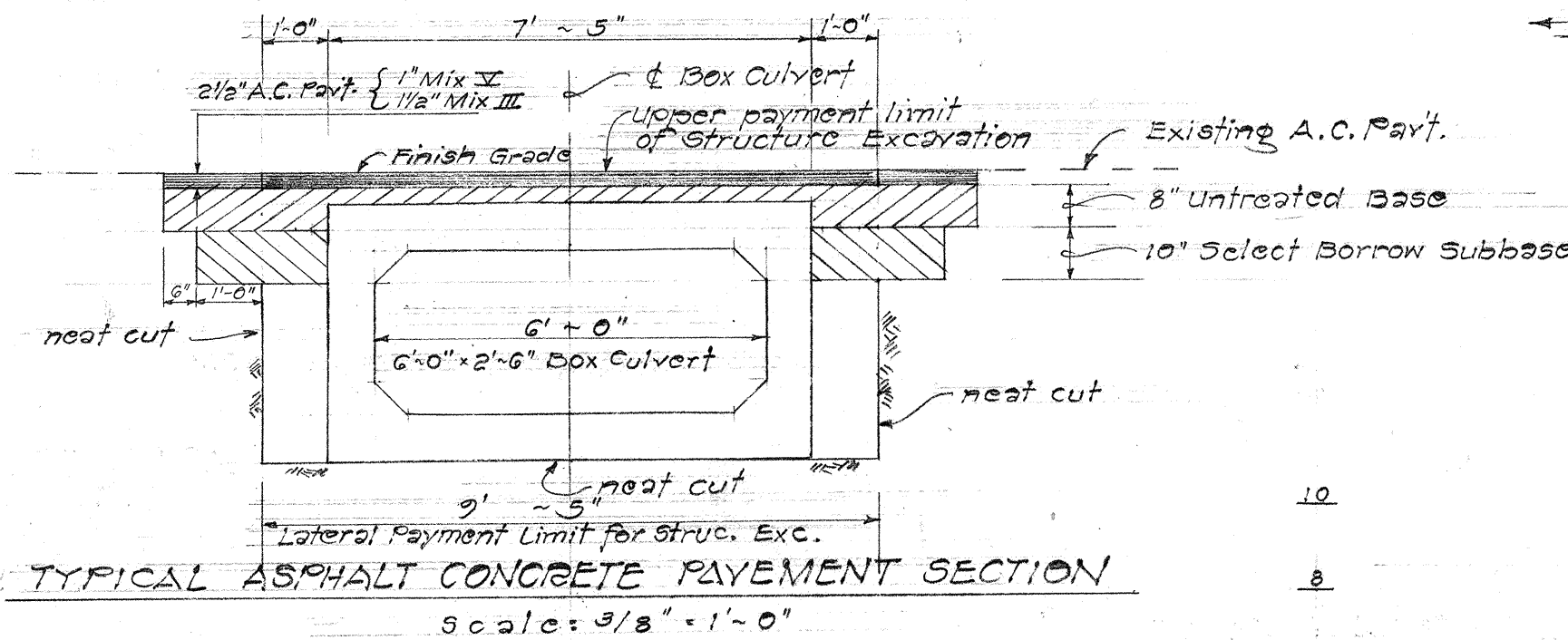
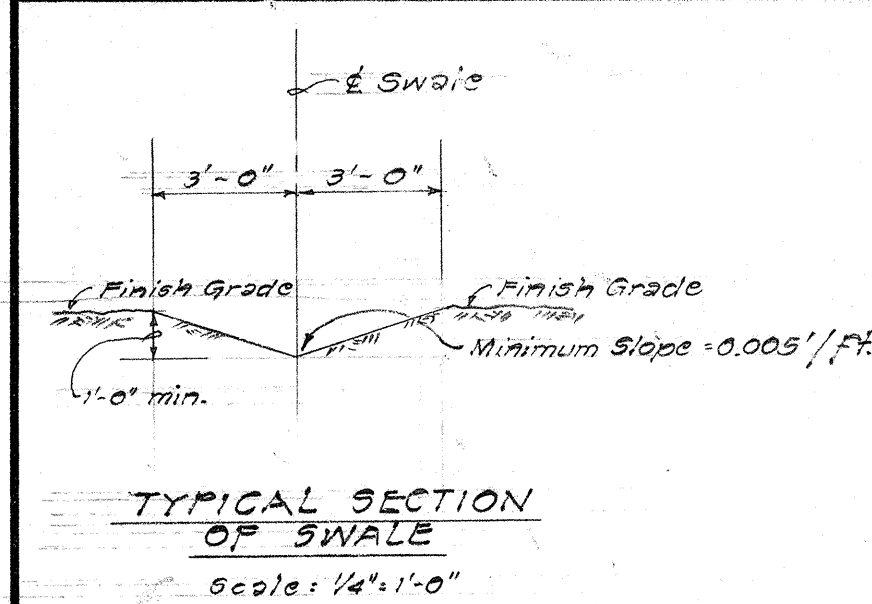


TAX MAP KEY (5-1-09-18)

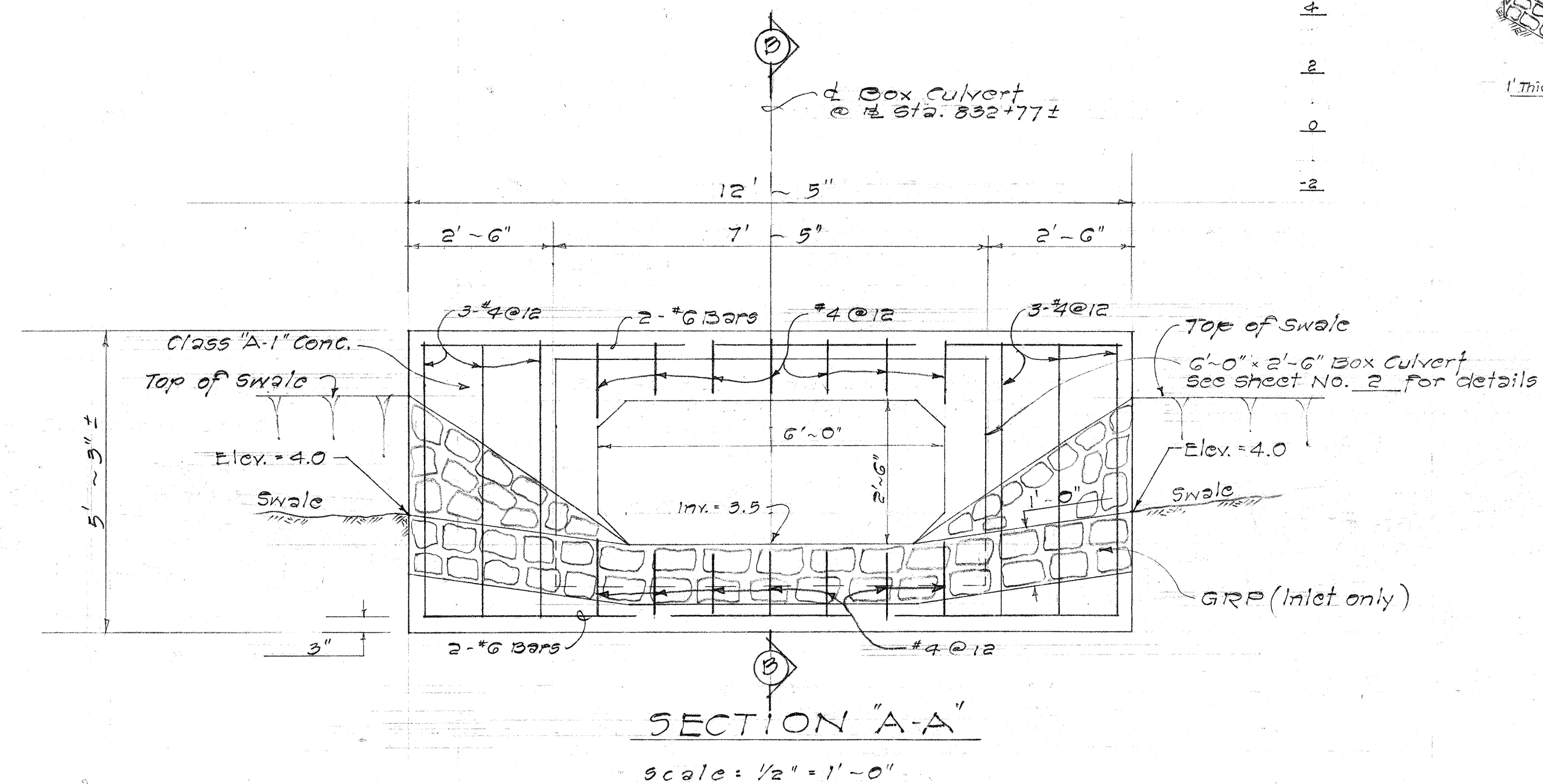
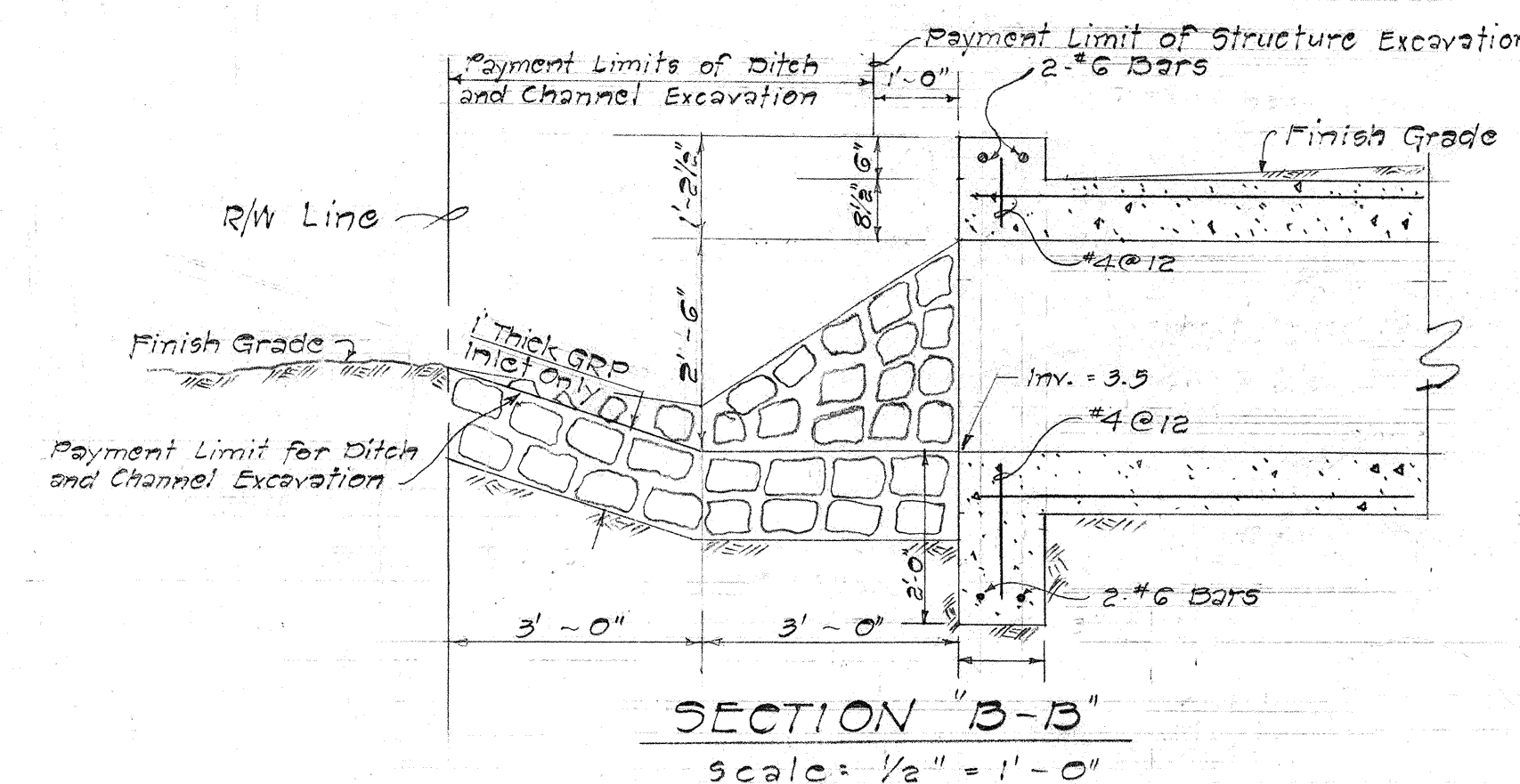
KAAAWA SCHOOL TAX MAP KEY (5-1-02-18)

GENERAL NOTES:

- Existing pavement consists of asphalt concrete overlay on Portland Cement Concrete. Provide easy riding connection to existing pavement.
- The Contractor shall have the option of either installing precast or cast-in-place box culverts in the shoulders.
- The Contractor shall notify the Board of Water Supply in writing one (1) week prior to commencing work on the 6" water main.
- Asterisk (*) indicates work to be performed by the R.W.S. Materials shall be furnished by Contractor. All excavation and backfill shall be done by the Contractor.
- The locations of existing water mains shown on the plans are approximate only. The Contractor shall expose all water mains at the drain crossing prior to excavation of drain trench to verify location and grade.
- All materials and construction for the water main shall conform to the Board of Water Supply's "Standards of Water System" dated April 1963 and the Specifications.
- The Contractor shall notify the Office of the Signal Officer, United States Army Hawaii in writing 10 working days prior to commencing work on the cable.



PROFILE OF BOX CULVERT AT STA. 832+77±



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UNIT II

6'0" x 2'6" CONCRETE BOX CULVERT
VICINITY OF KAAAWA SCHOOL

PLAN AND PROFILE

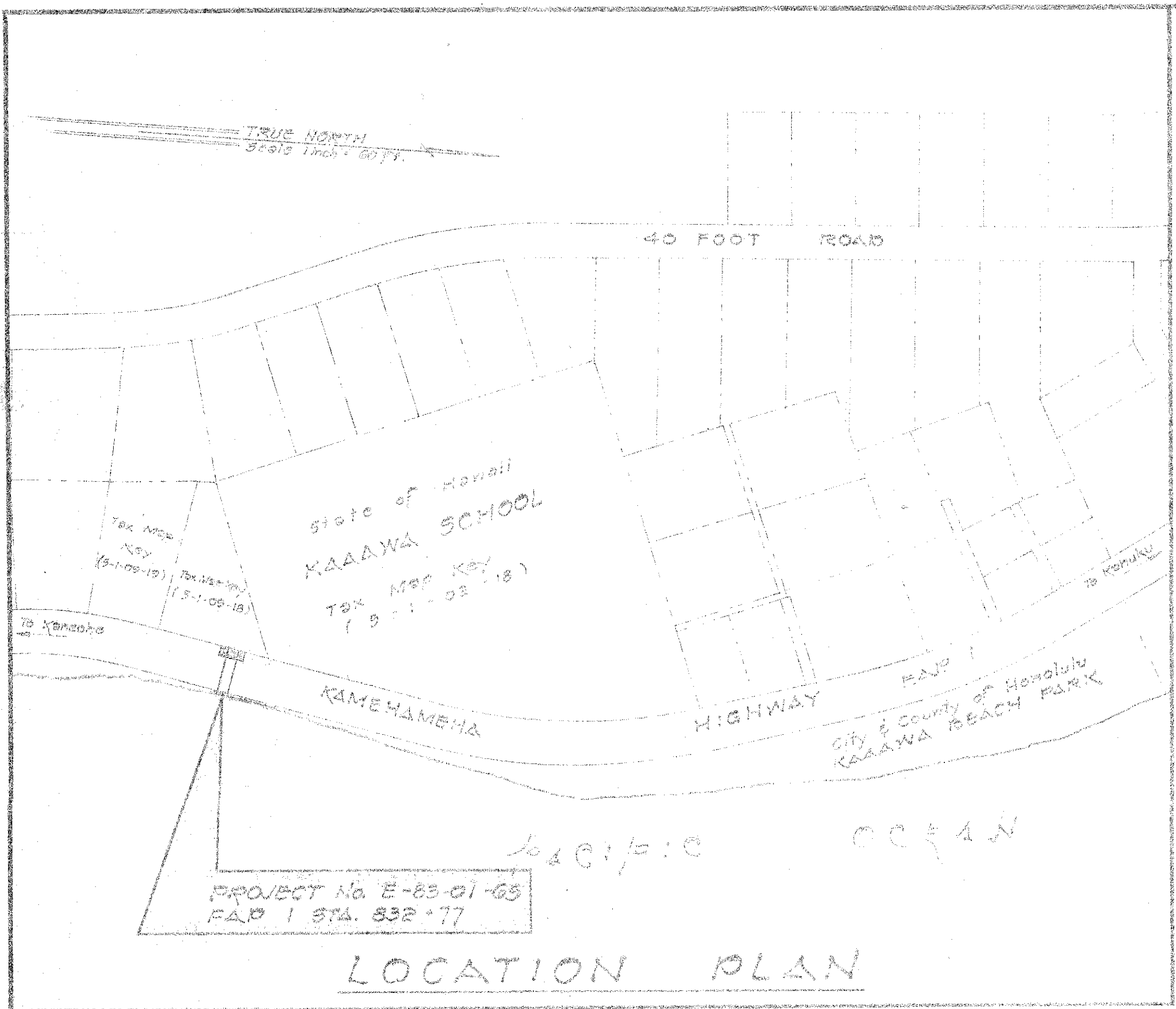
Proj. No. E-83-01-63

Scale: As Noted Date: Mar. 1966

SHEET No. 3 OF 4 SHEETS

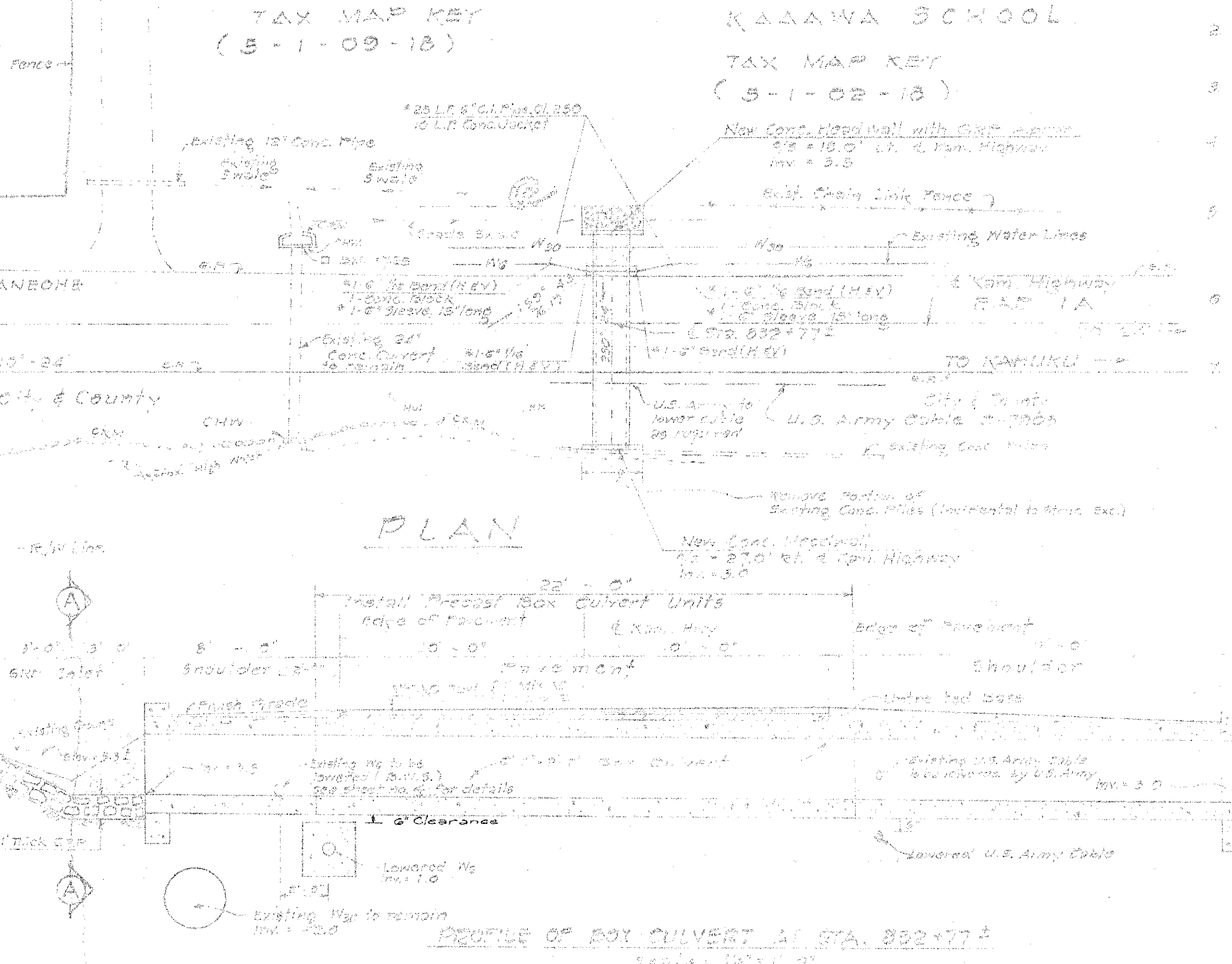
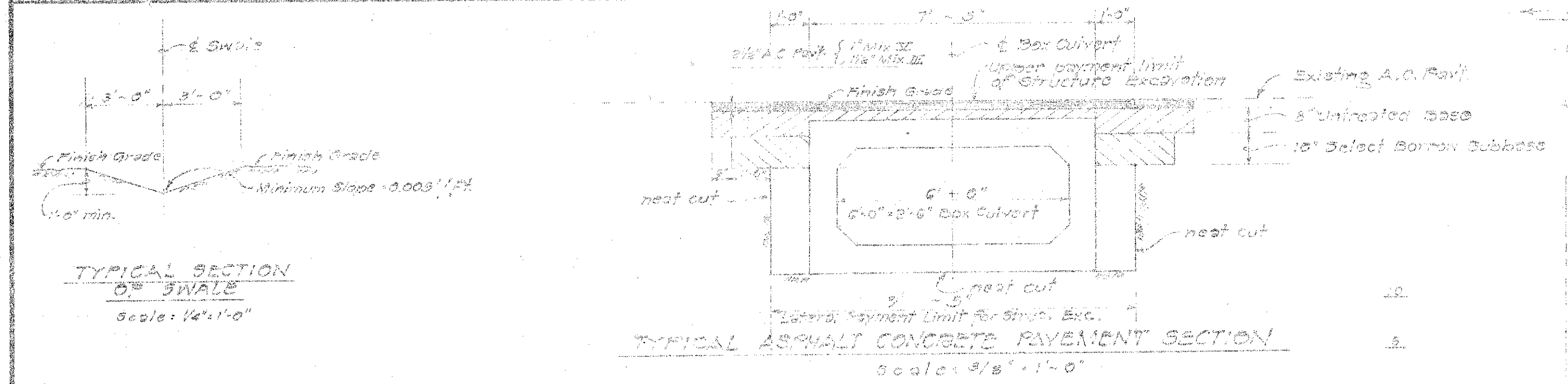
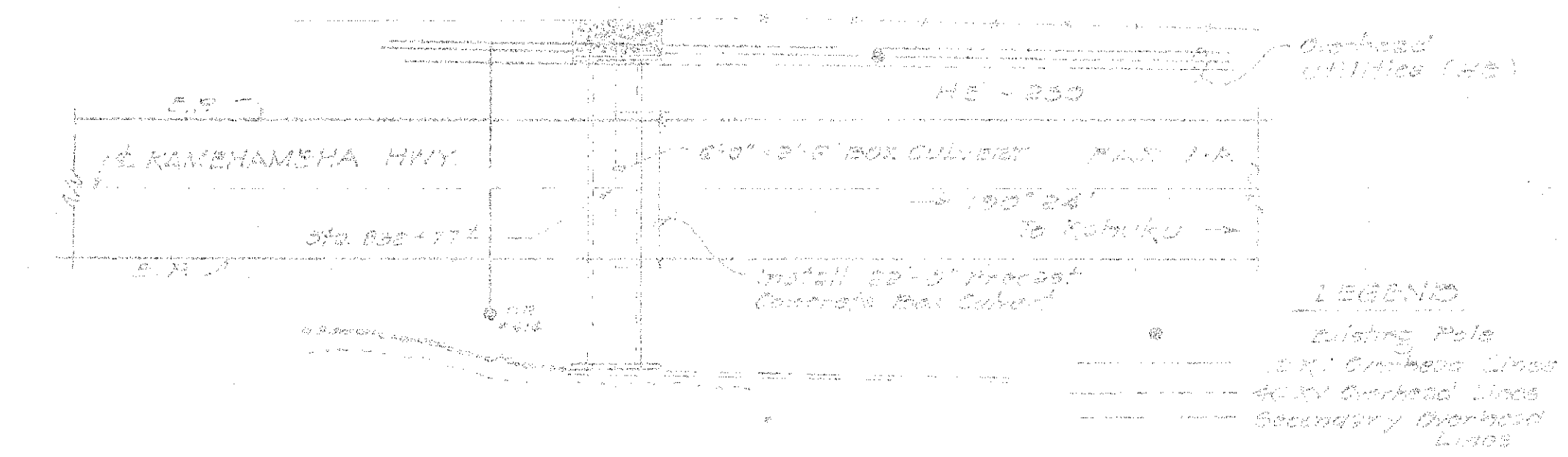
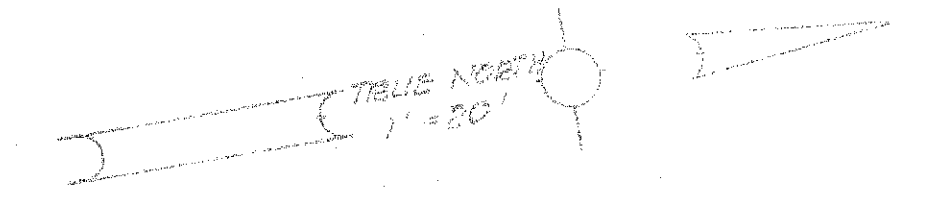
SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

FED. PROJ. NO.	STATE	FED. AID	LOCAL FUND. NO.	LOCAL PROJ. NO.
HA-001	HA-001	HA-001	HA-001	HA-001



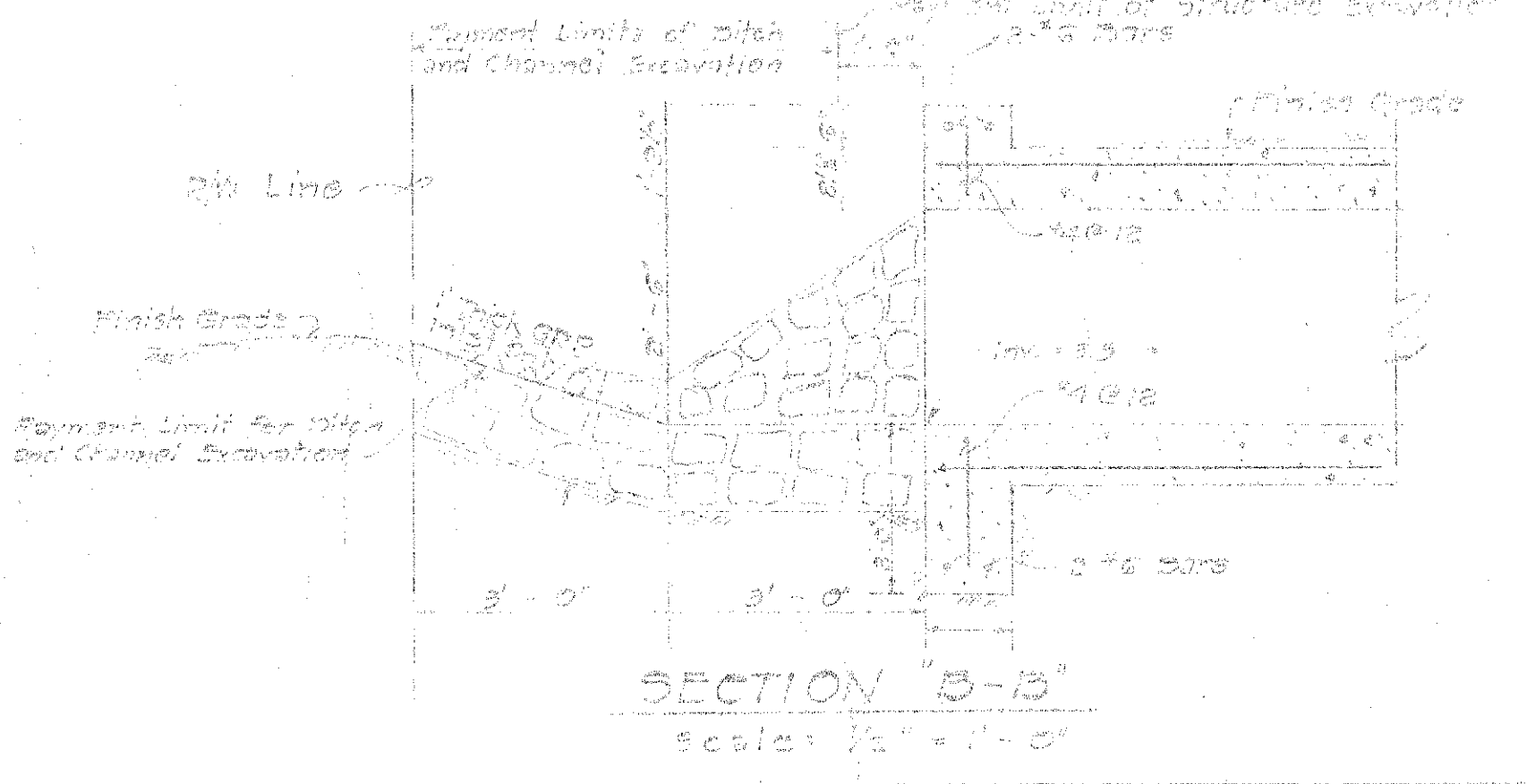
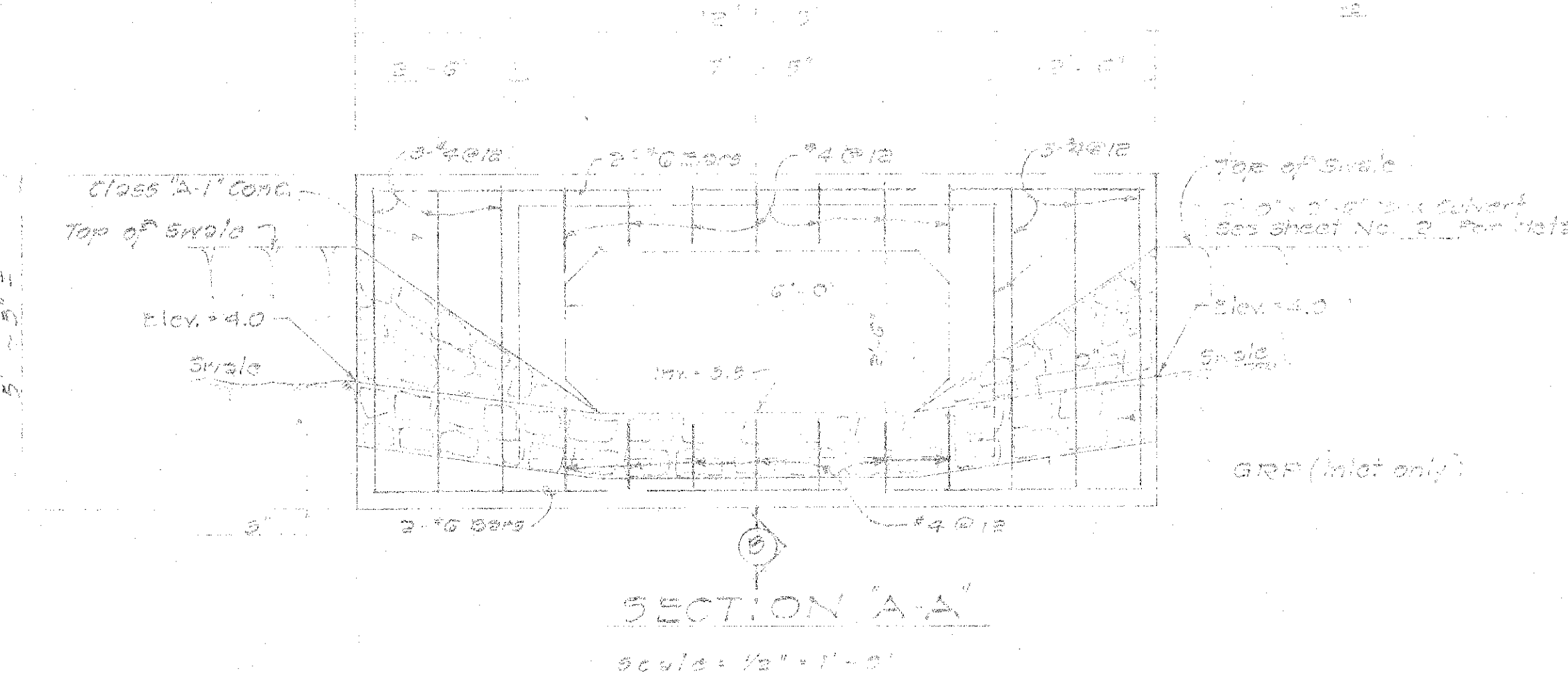
ESTIMATED QUANTITIES

Structure Exc.	= 102 c.y.
Ditch and Channel Exc.	= 11 c.y.
Concrete in Box Culvert	= 2.5.
Class 2-1 Concrete	= 3 c.y.
Reinforcing Steel in Box Culvert	= 1.5.
Reinforcing Steel	= 160 lbs.
Grouted Subgrade Paving	= 3 c.y.
Purchasing 6" C.I. Pipe (61.250)	= 25 L.F.
Purchasing C.I. Fittings	= 780 lbs.
Restoring Highway Pavement	= 1.5.



- GENERAL NOTES:
- Existing pavement consists of asphalt concrete on 2\"/>

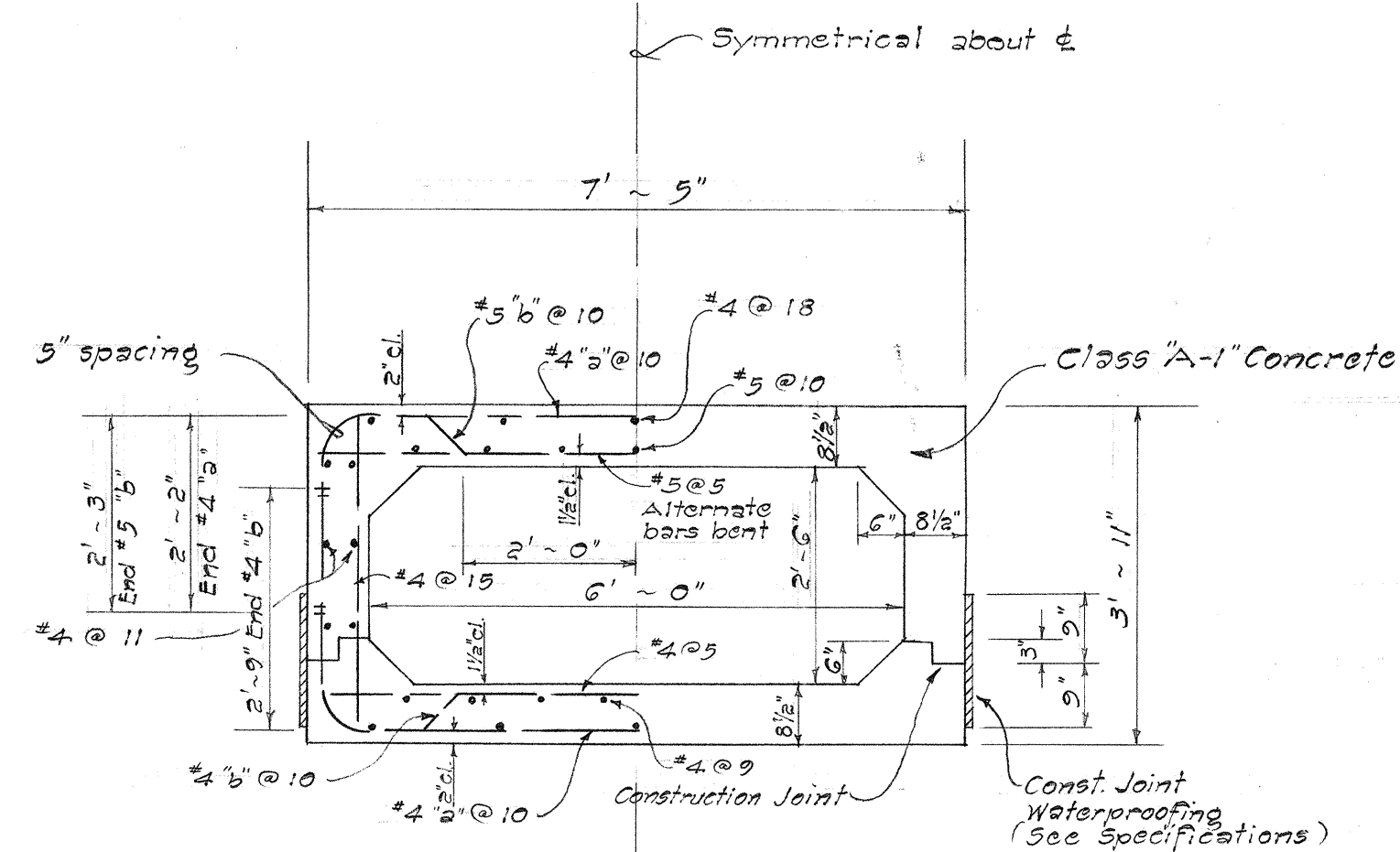
SURVEYED BY	DATE
DESIGNED BY	DATE
NOTED BY	DATE
CHECKED BY	DATE



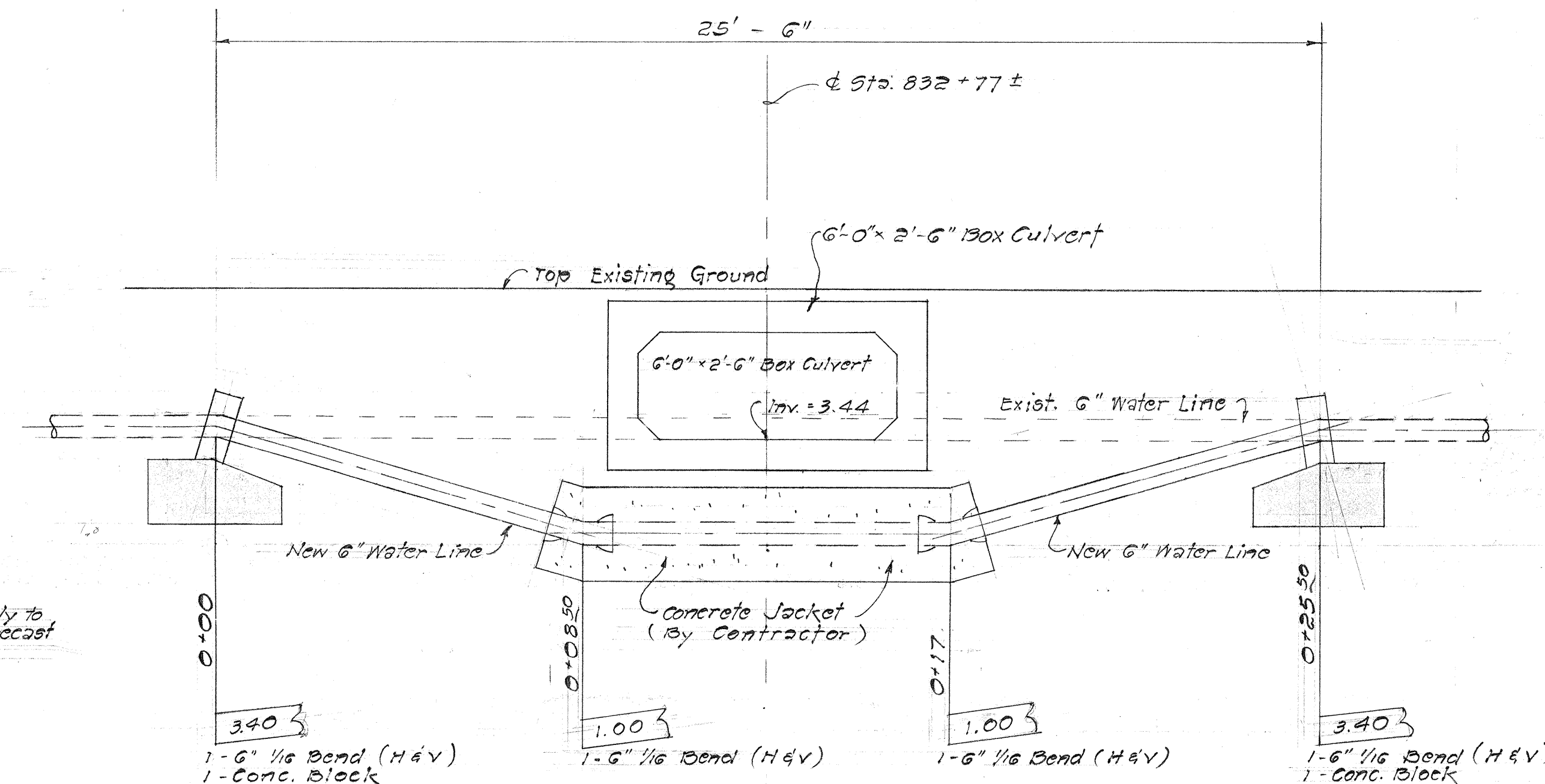
APPROVED:
[Signature]
 ASSISTANT CHIEF ENGINEER
 BOARD OF WATER SUPPLY
 DATE 7-5-66

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
 UNIT II
 6\"/>

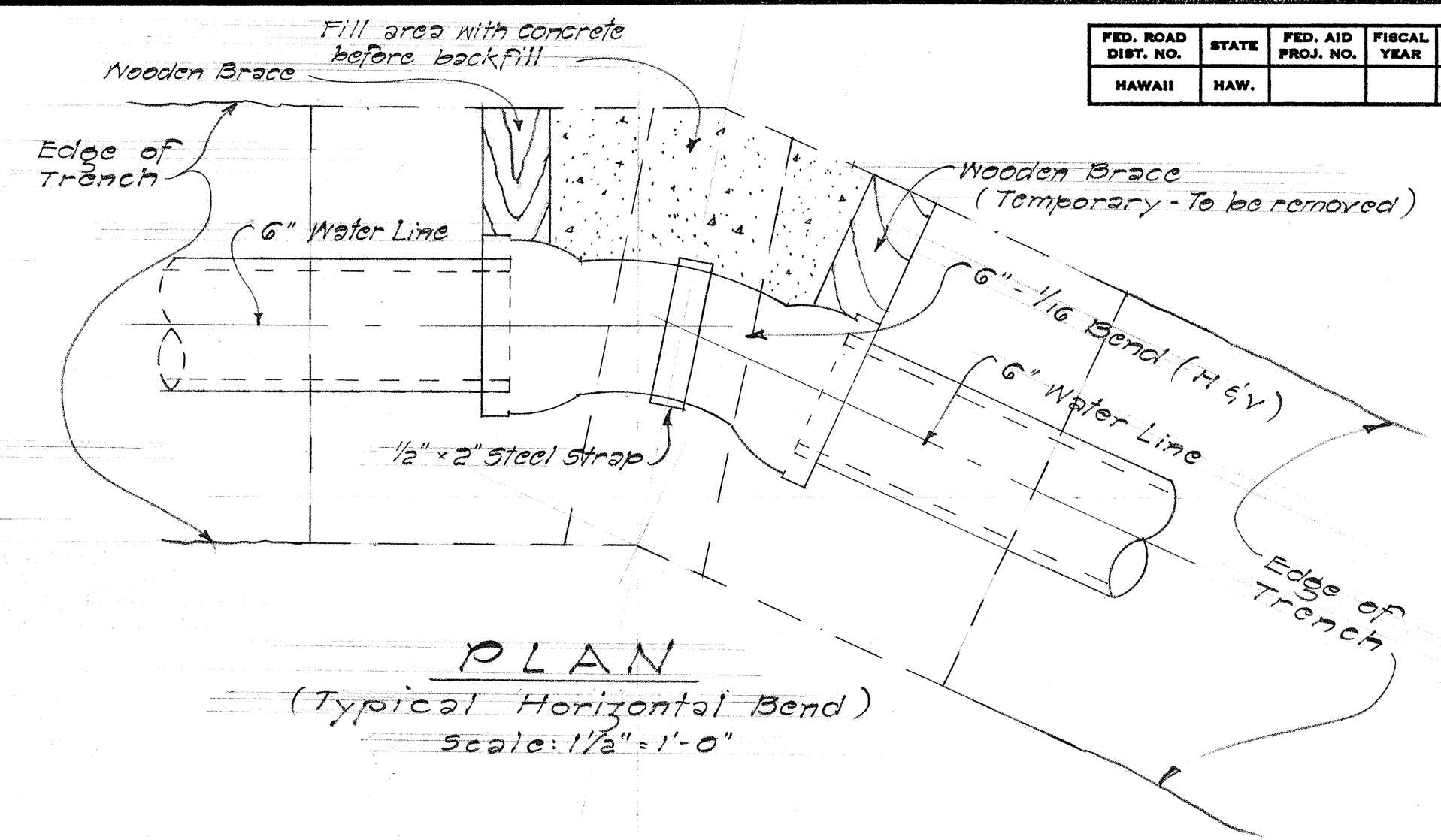
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.				



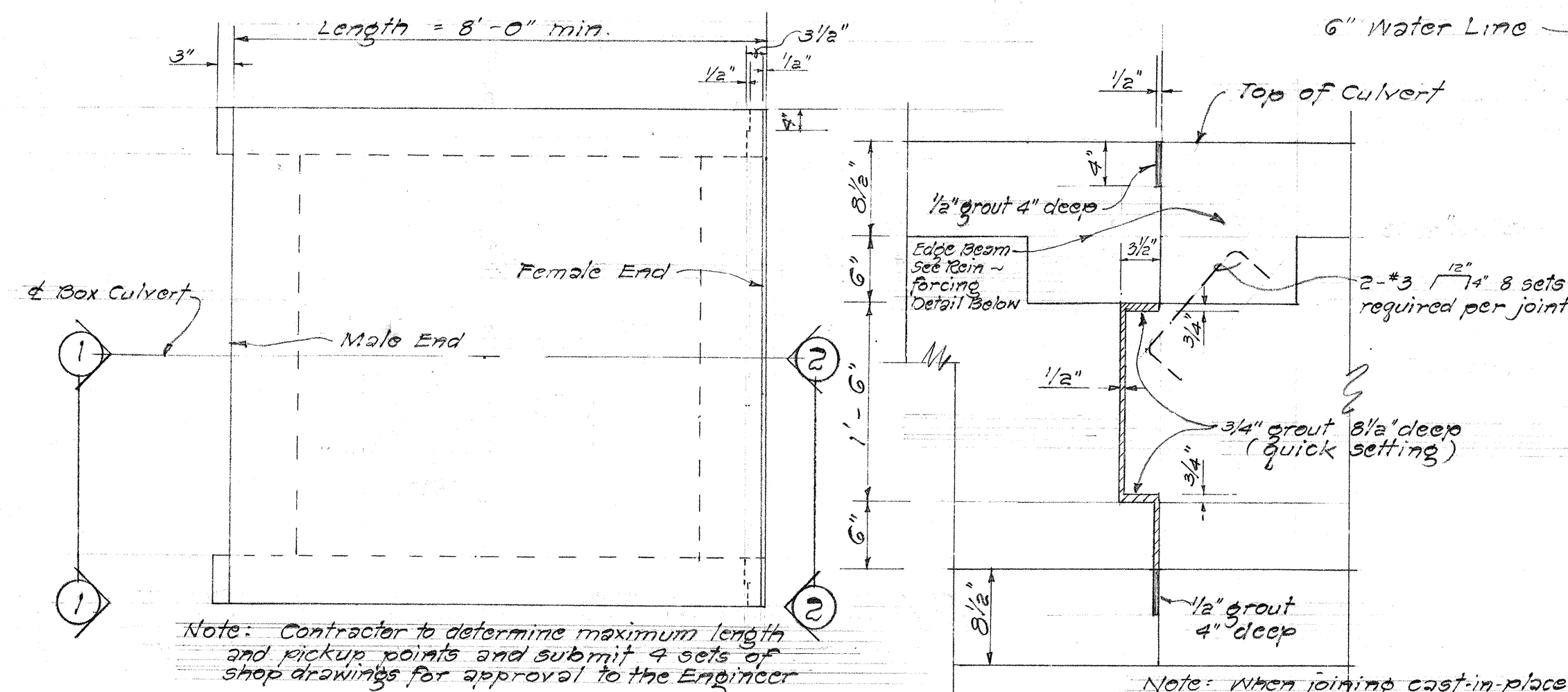
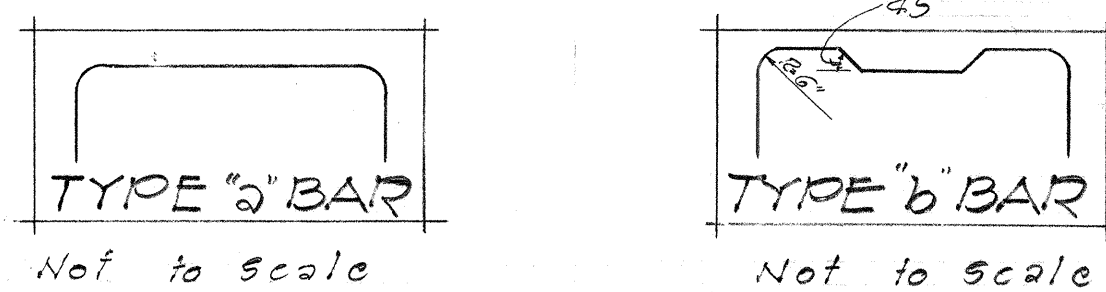
6'-0" x 2'-6" BOX CULVERT
Scale: 1/2" = 1'-0"



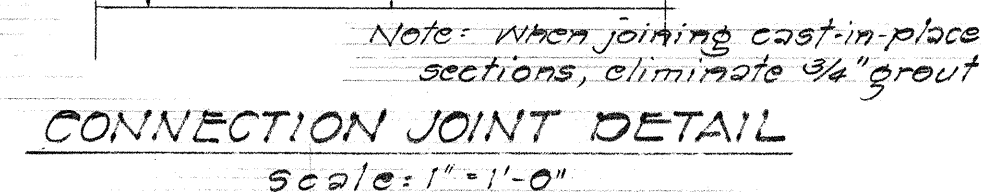
PROFILE OF NEW 6" WATER LINE
Scale: 3/8" = 1'-0"



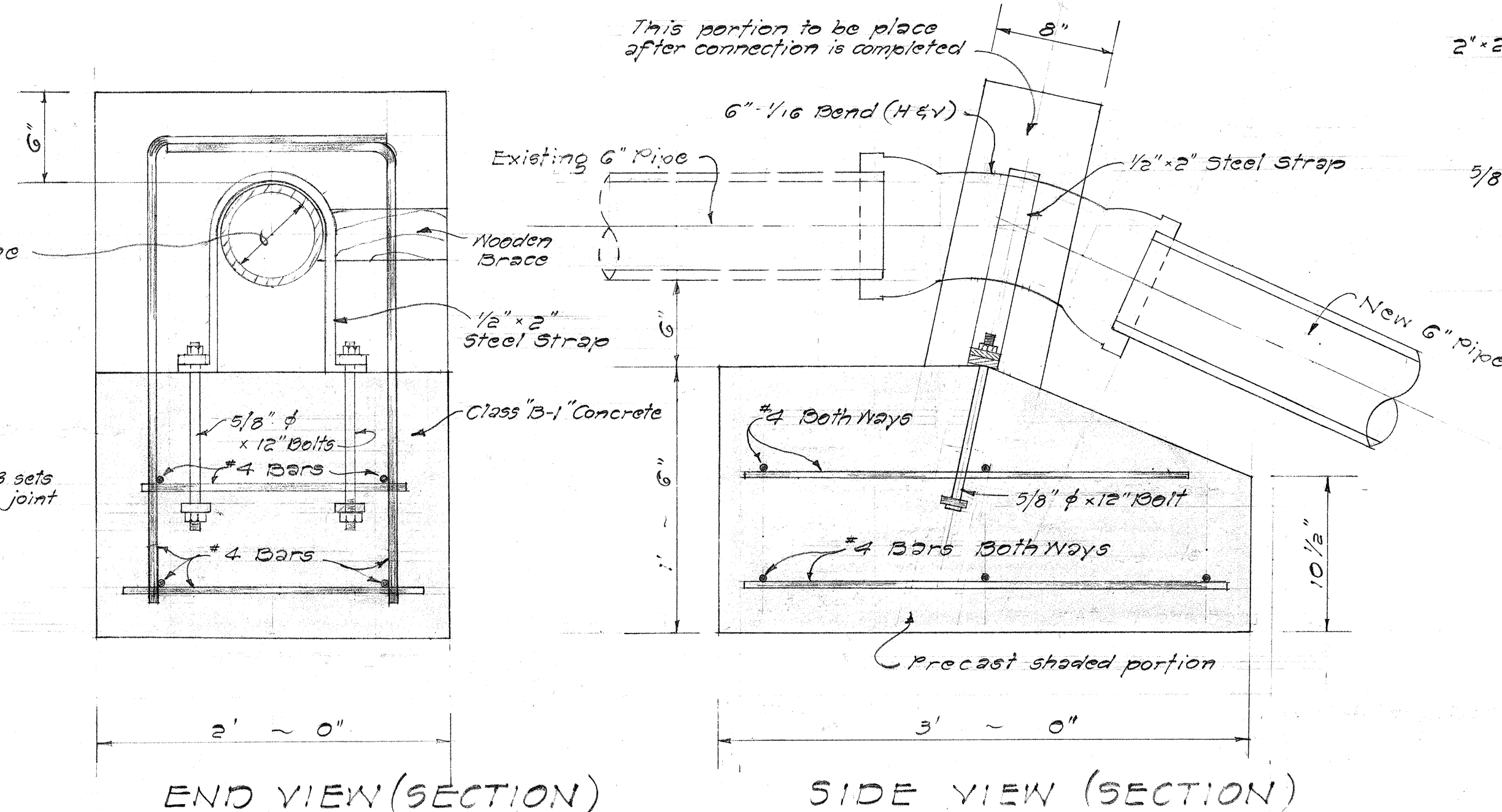
PLAN
(Typical Horizontal Bend)
Scale: 1 1/2" = 1'-0"



TOP PLAN - TYPICAL PRECAST BOX CULVERT UNIT
Scale: 1/2" = 1'-0"

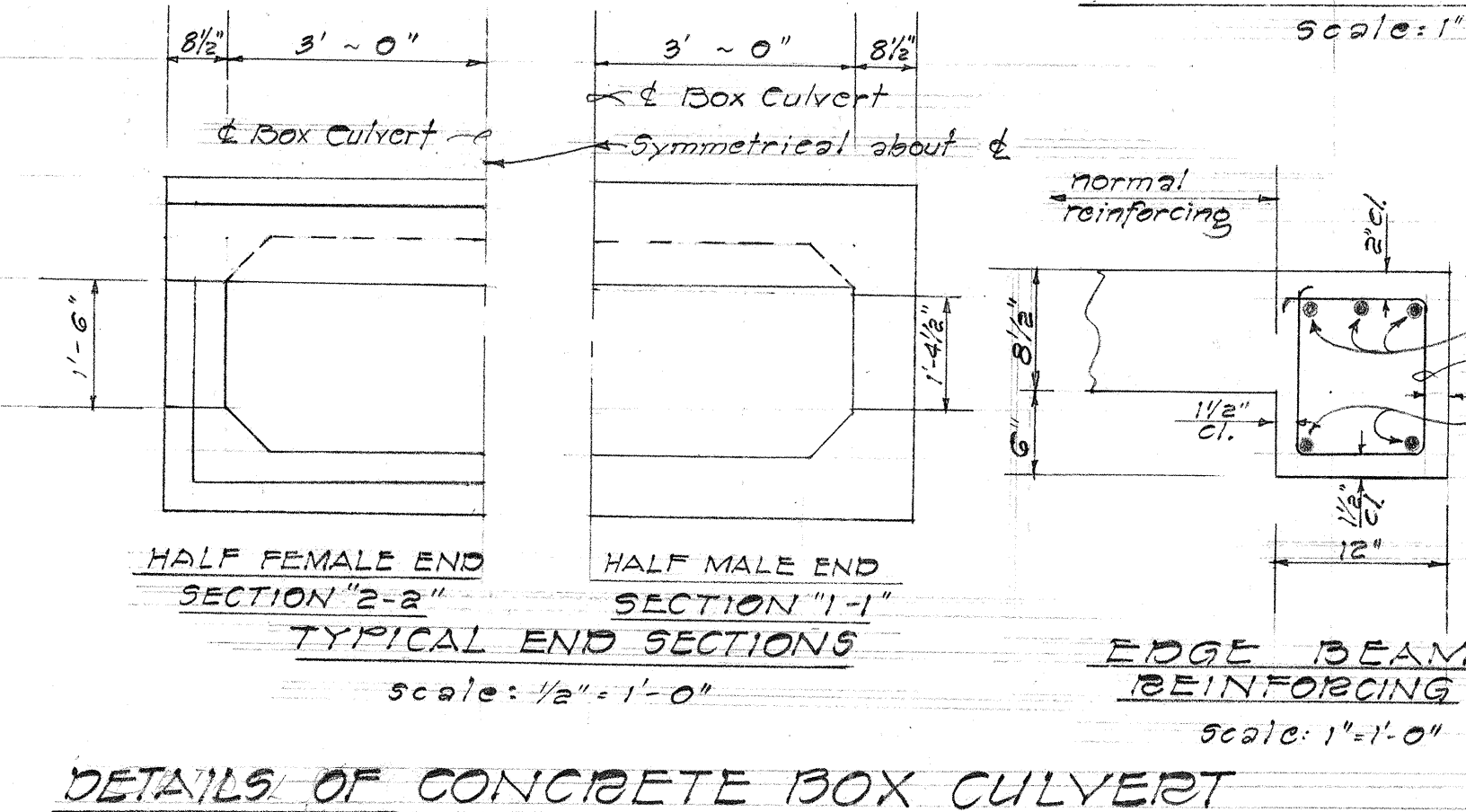


CONNECTION JOINT DETAIL
Scale: 1" = 1'-0"

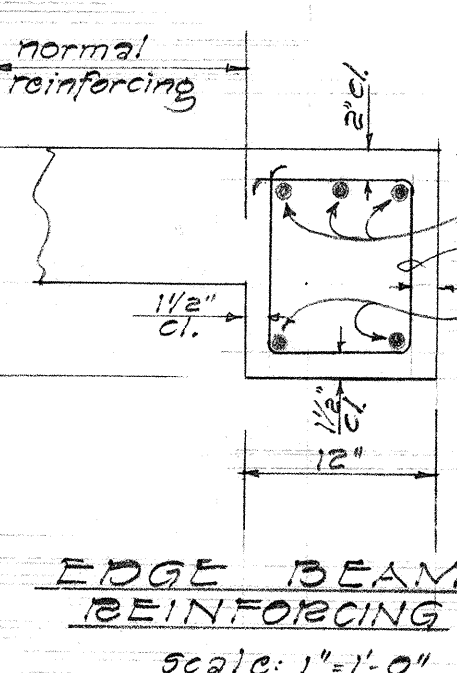


END VIEW (SECTION)
DETAIL OF PRECAST REINFORCED CONCRETE REACTION BLOCK
Scale: 1 1/2" = 1'-0"

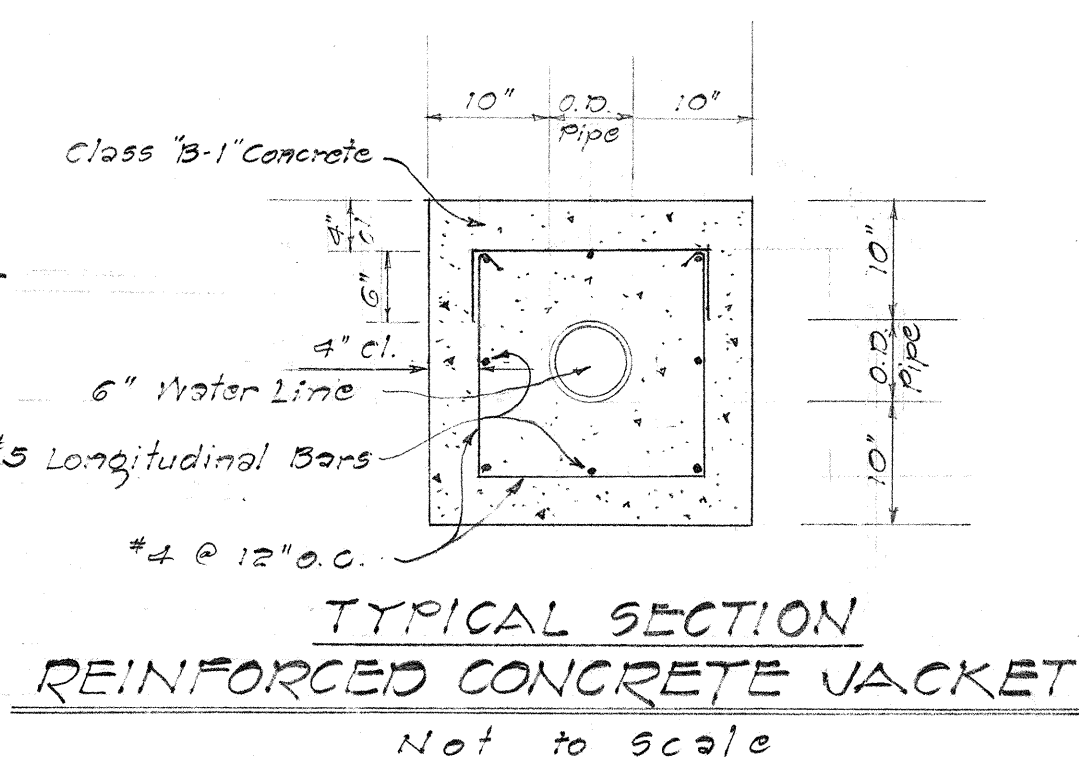
Note:
1. The steel straps, anchor bolts, nuts, washers and anchor plate for the reaction block shall be considered incidental to Class 'B-1' concrete.



DETAILS OF CONCRETE BOX CULVERT
Scale: 1/2" = 1'-0"



EDGE BEAM REINFORCING
Scale: 1" = 1'-0"



TYPICAL SECTION REINFORCED CONCRETE JACKET
Not to scale

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

UNIT II
6'-0" x 2'-6" CONCRETE BOX CULVERT
VICINITY OF KAAAWA SCHOOL
BOX CULVERT DETAILS
AND
WATER DETAILS
Proj. No. E-83-01-G5
Scale: As Noted Date: Mar. 1966

SHEET No. 4 OF 4 SHEETS

SURVEY PLOTTED BY	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
QUANTITIES BY	
NO.	