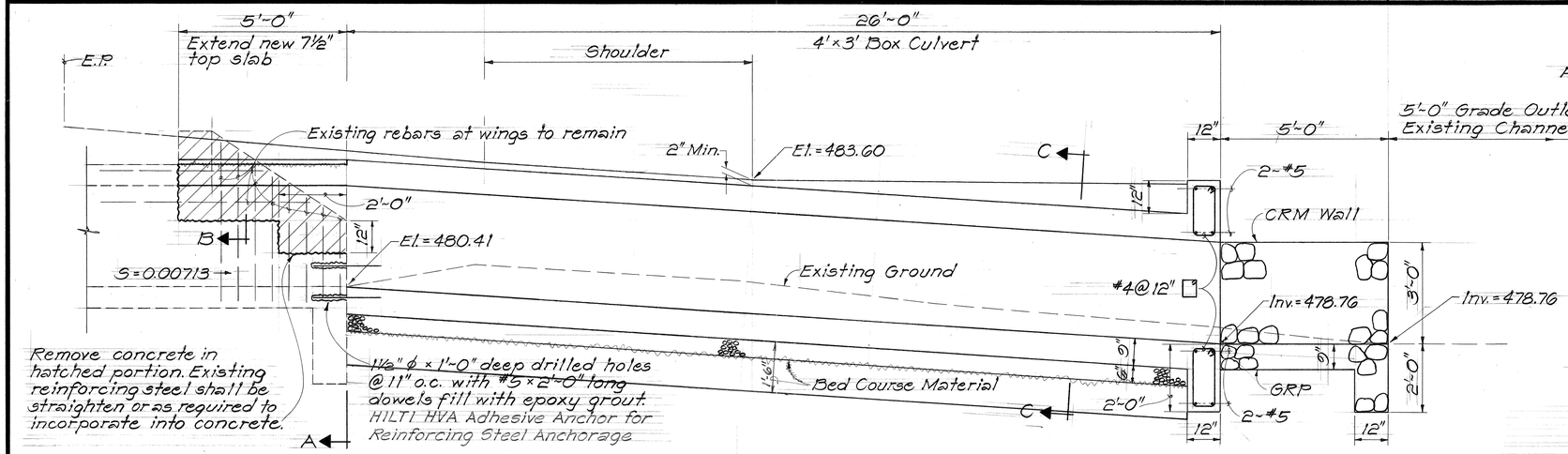
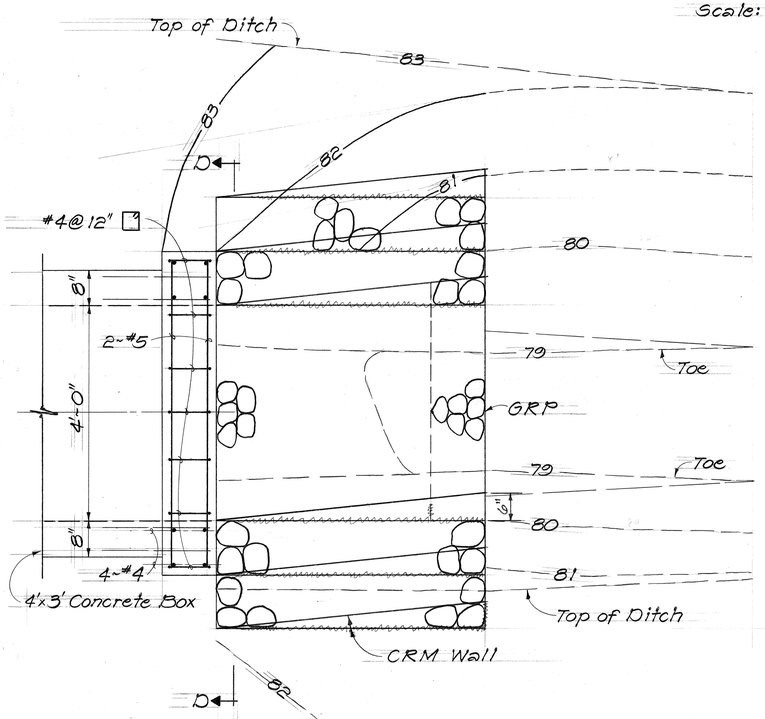
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	191-01-82	1982	3	5

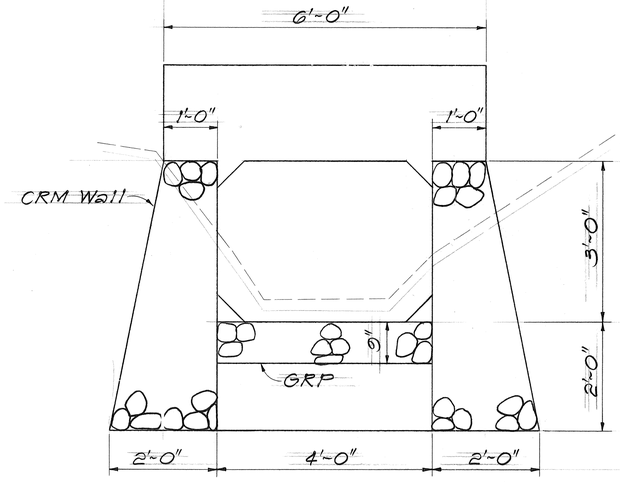


PROFILE 4'x3' CONCRETE BOX EXTENSION
Scale: ½"=1'-0"

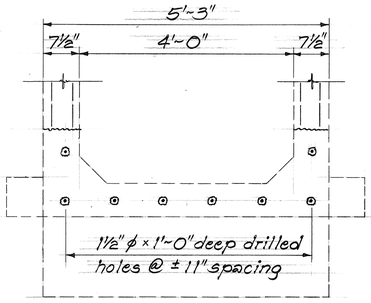


PLAN - OUTLET
Scale: ¾"=1'-0"

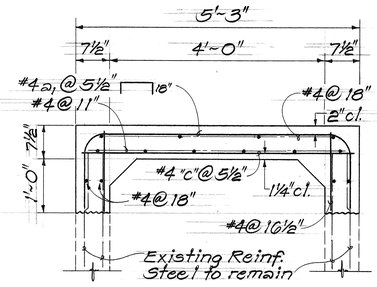
T.B.M.
~~Note:~~ Elevations based on assumed datum of ~~476.00~~ ft. at ℄ Sta. 2+00.96
475.77



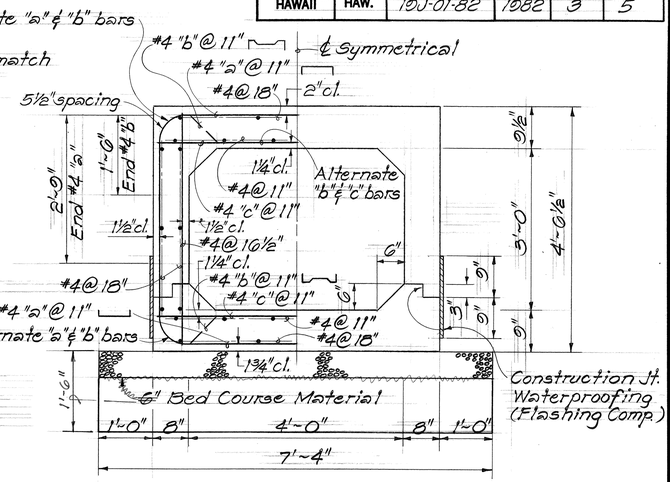
SECTION D-D
Scale: ¾"=1'-0"



SECTION A
Scale: ¾"=1'-0"



SECTION B
Scale: ¾"=1'-0"



SECTION C-C
Scale: ¾"=1'-0"

GENERAL NOTES

1. Special care shall be exercised against damages to slab and wall during concrete removal. Any damage to portions of the structure which are to remain in place shall be repaired at the contractor's expense, to the satisfaction of the engineer.
2. Pnuematic or hammering action type drill will not be permitted. Drilling for dowels shall be incidental to Class "A" concrete and will not be paid separately.
3. Existing reinforcement that is to be used in the new work shall be protected from damaged and be thoroughly cleaned before being embedded in new concrete.

ESTIMATED QUANTITIES

Structural Excavation	=	~~36.4~~ ~~10.5~~ c.y.
~~Imported Borrow~~	=	~~3.0 c.y.~~
Class A Concrete	=	13.7 c.y.
Reinforcing Steel	=	1885 lb.
Bed Course Material For Culvert	=	~~10.6~~ ~~3.5~~ c.y.
Cement Rubble Masonry	=	2.8 c.y.
Grouted Rubble Paving	=	0.8 c.y.

APPROVED:

Arthur T. Seemann 5-14-82
Chief Engineer, D.P.W., County of Hawaii Date

APPROVAL GIVEN FOR WORK WITHIN COUNTY OF HAWAII RIGHT-OF-WAY ONLY.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

HAWAII BELT ROAD

Drainage Improvements at Kulaimano Rd.

Project No. 191-01-82

Scale as Shown Date: Mar. 1982

SHEET No. OF SHEETS

3

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

191-01-82