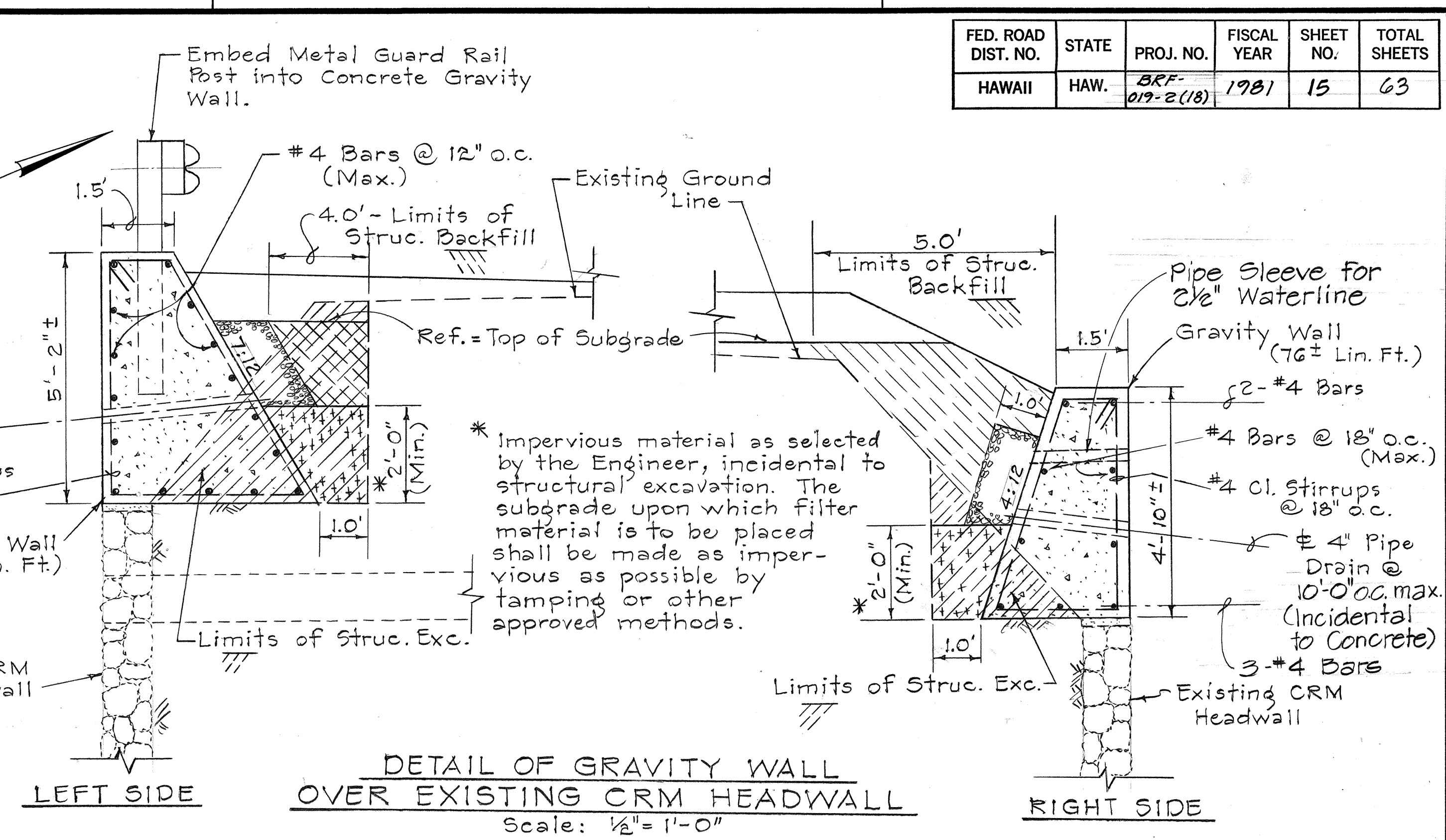
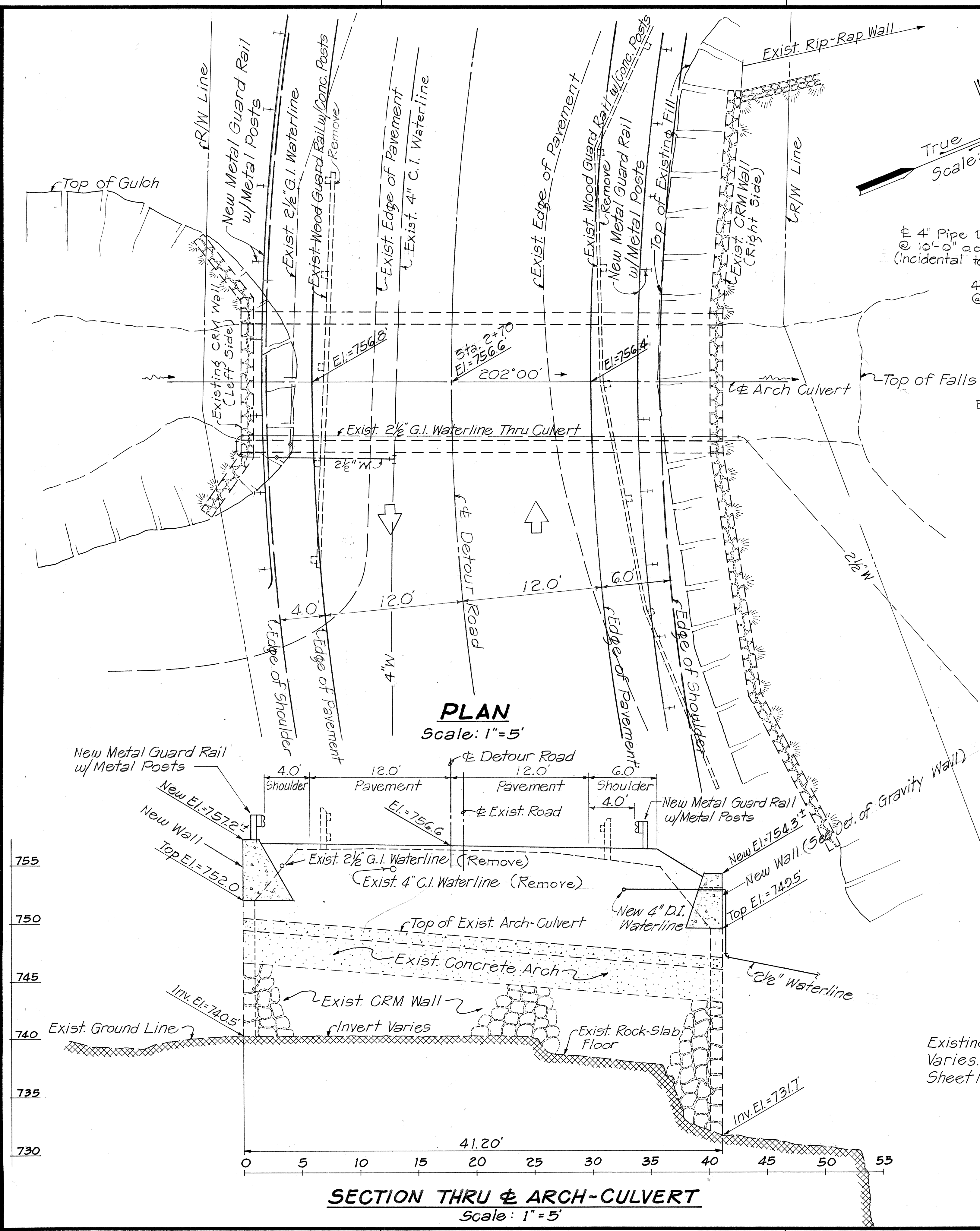


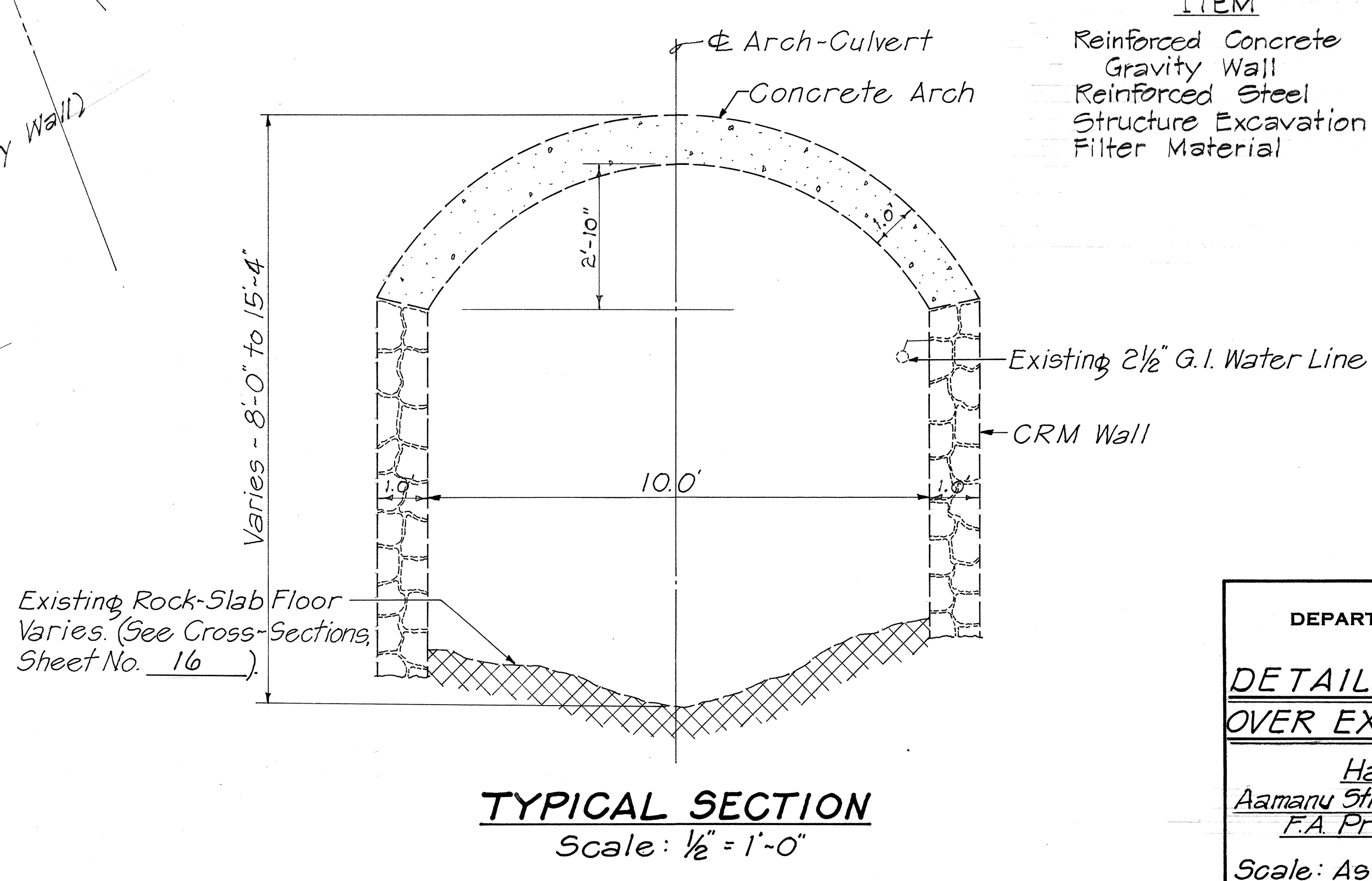
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BRF-019-2(18)	1978	15	63



- NOTE:**
- Gravity Walls shall be Class A Concrete.
 - Reinforcing Steel shall be ASTM A G15 Grade 40.
 - Provide 6" ϕ Pipe Sleeve thru the Right Side Gravity Wall for relocated 2 1/2" G.I. Waterline. See Plan Sheet No. 7.

ESTIMATED QUANTITIES

ITEM	RIGHT	LEFT
Reinforced Concrete Gravity Wall	25 C.Y.	15 C.Y.
Reinforced Steel	826 LBS.	521 LBS.
Structure Excavation	9 C.Y.	11 C.Y.
Filter Material	5 C.Y.	2 C.Y.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**DETAIL OF GRAVITY WALL
OVER EXIST. ARCH CULVERT**

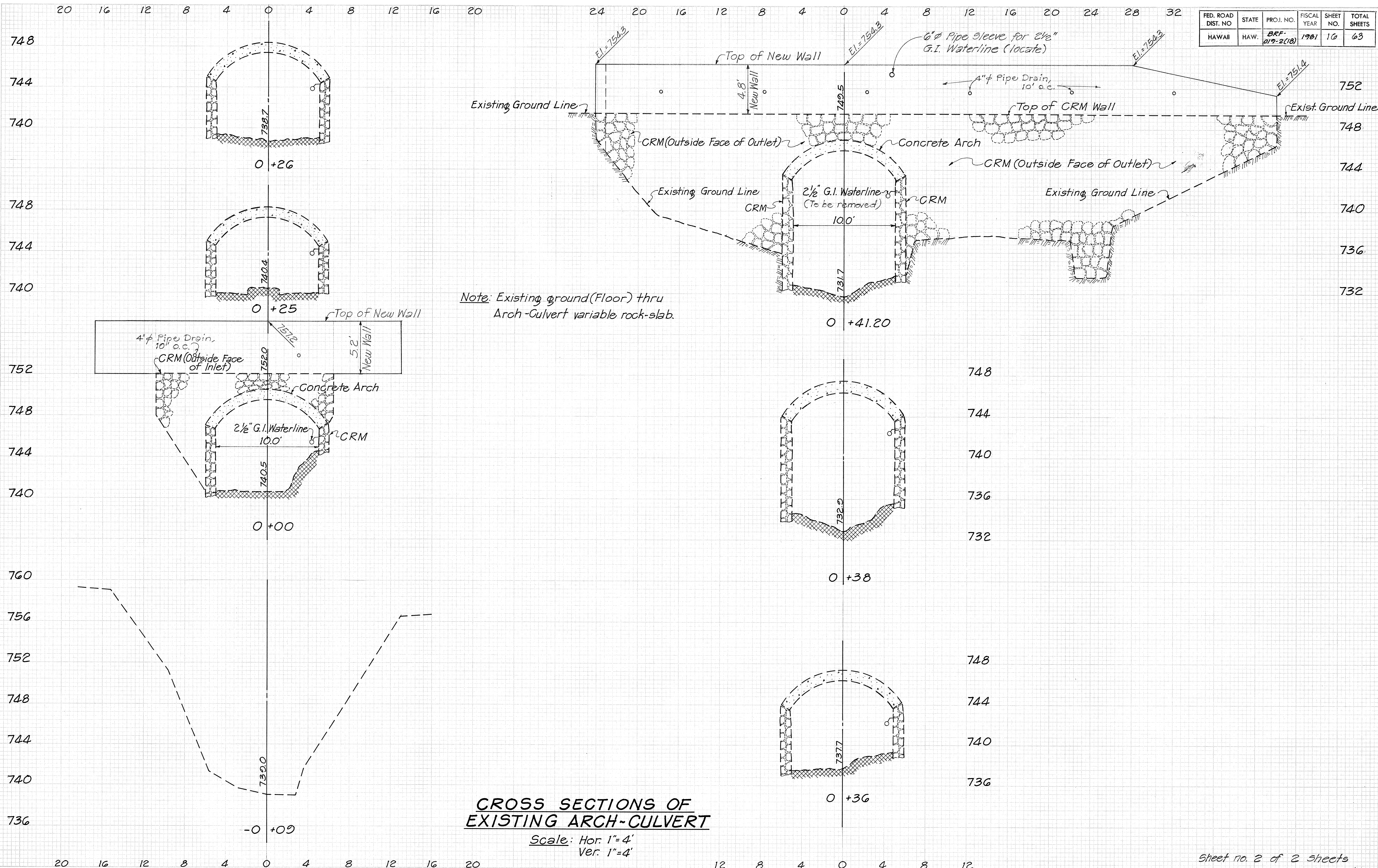
*Hawaii Belt Road
Aamau Stream Bridge Replacement
FA Proj. No. BRF-019-2(18)*

Scale: As Shown Date: Oct. 1978
SHEET NO. 1 OF 2 SHEETS

NOTE: TRACING RECEIVED FOLDED FROM LT-DB 10/21/78-2

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BRF-019-2(18)	1981	10	63



CROSS SECTIONS OF EXISTING ARCH-CULVERT

Scale: Hor. 1" = 4'
Ver. 1" = 4'

DATE: _____ BY: _____
SURVEYED: _____
PLOTTER: _____
NOTE BOOK: _____
AREAS CHECKED: _____

NOTE: TRACING RECEIVED BUDEN
FROM LT-03 11/27/78

DATE: _____ BY: _____
SURVEYED: _____
PLOTTER: _____
NOTE BOOK: _____
AREAS CHECKED: _____