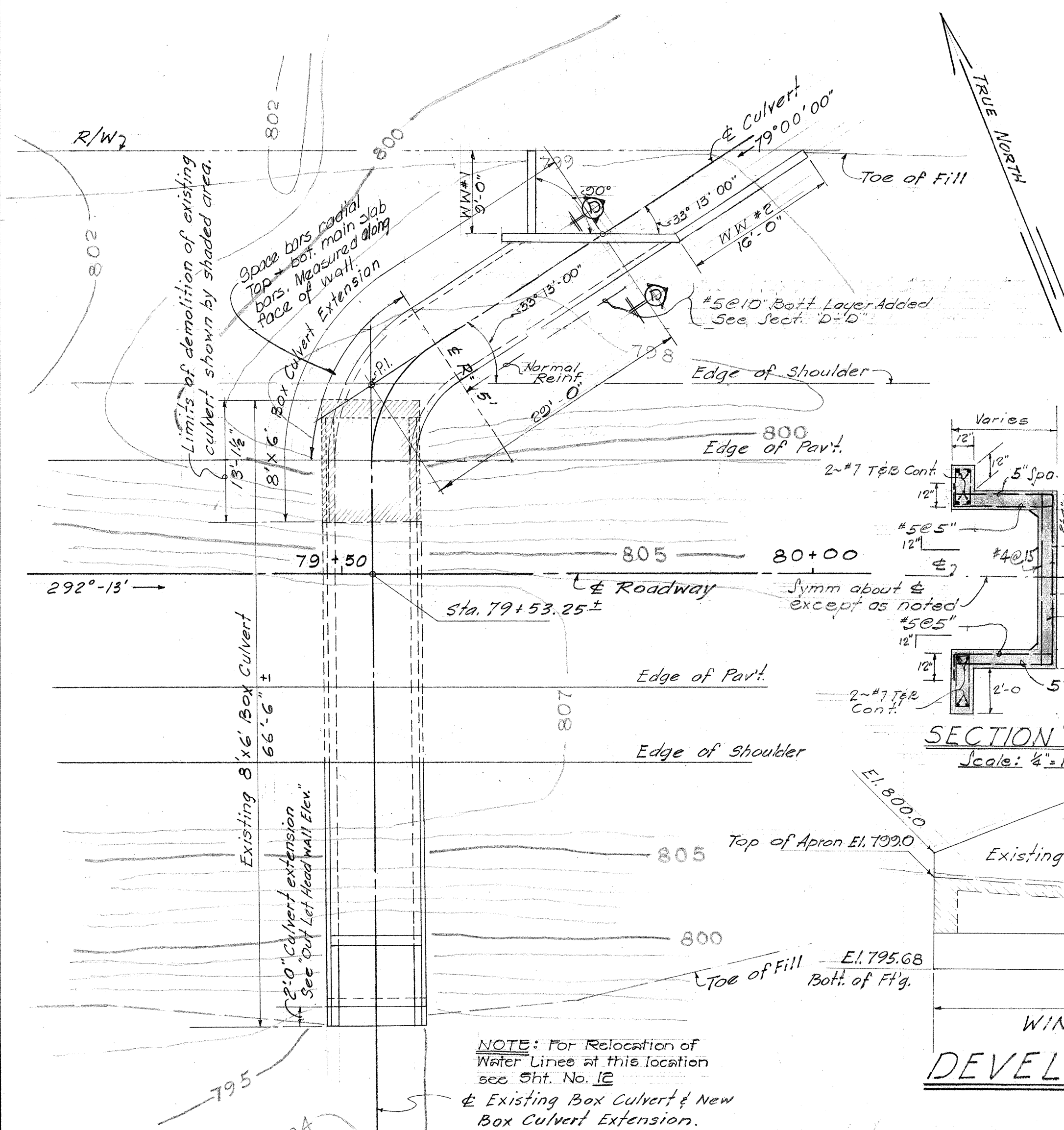
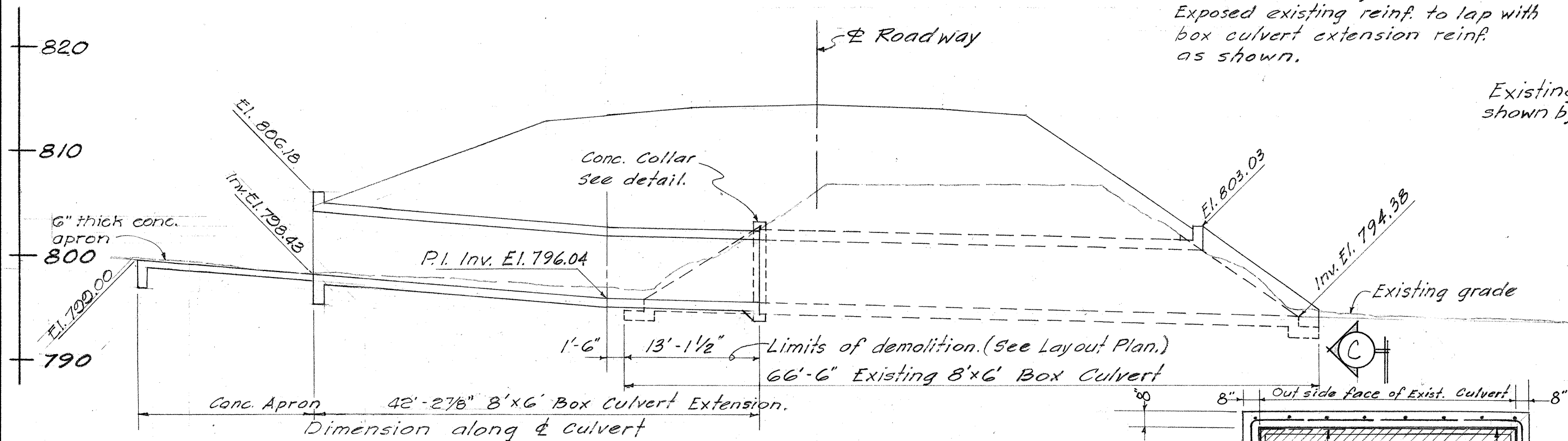


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	S-0480(1)	1965	11	31



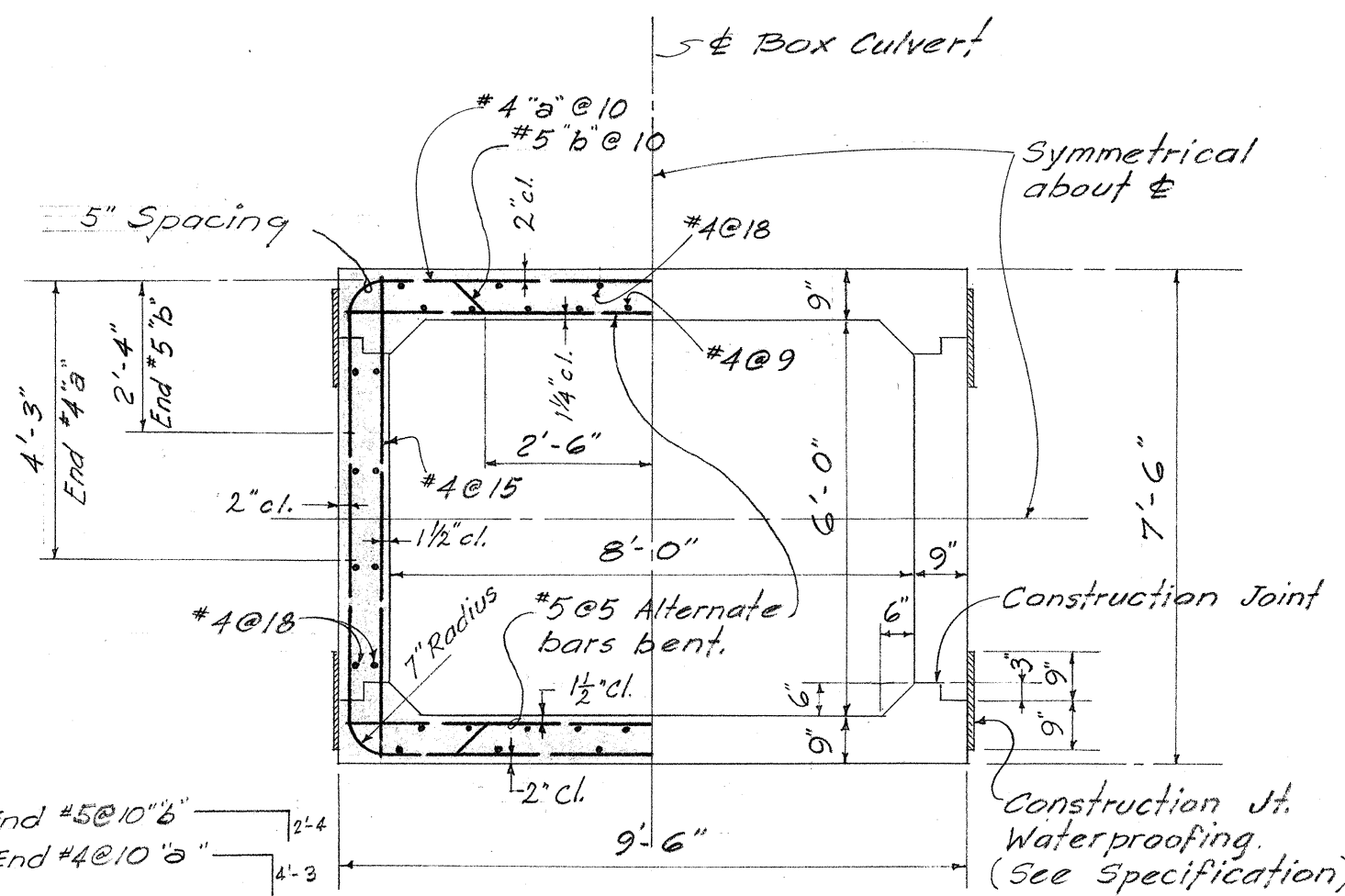
LAYOUT PLAN
Scale: 1"=10'-0"

ESTIMATED QUANTITY FOR 8'x6' BOX CULVERT EXTENSION	
Class A-1 Conc.	60.455 c.y.
Reinf. Steel	62676.625 lbs.
Struct. Exc.	88.81 c.y.

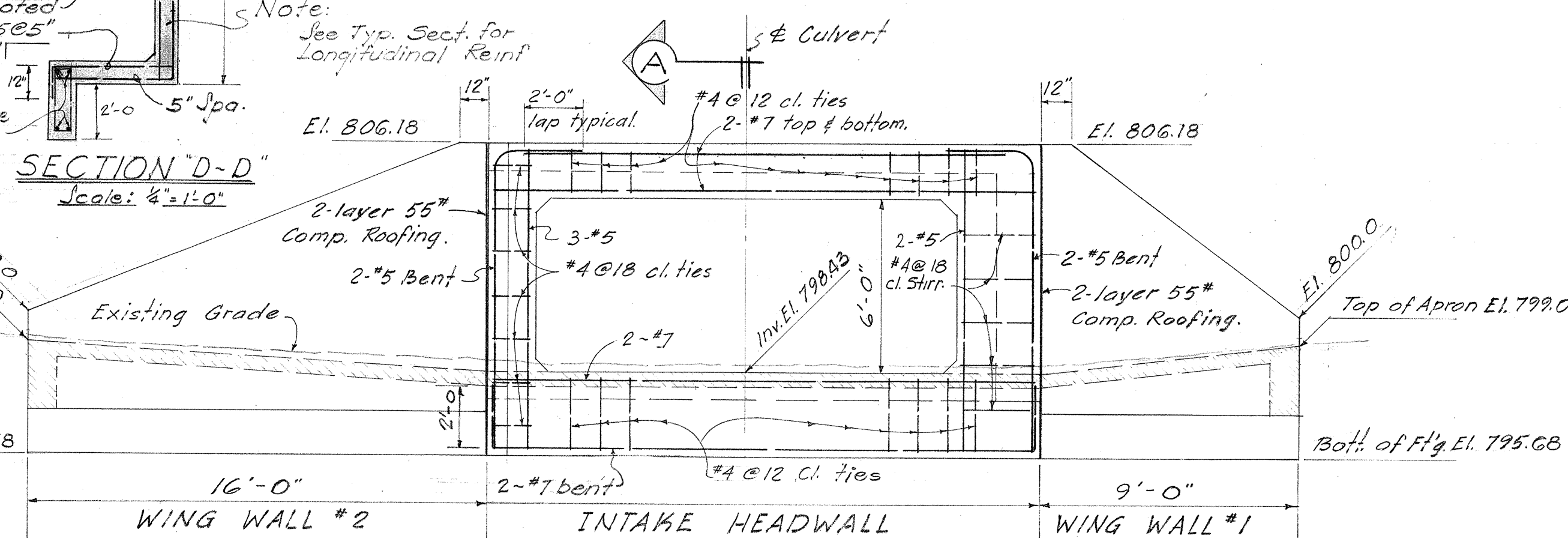


SECTION ALONG & 8'x6' BOX CULVERT
Scale: 1"=10'-0"

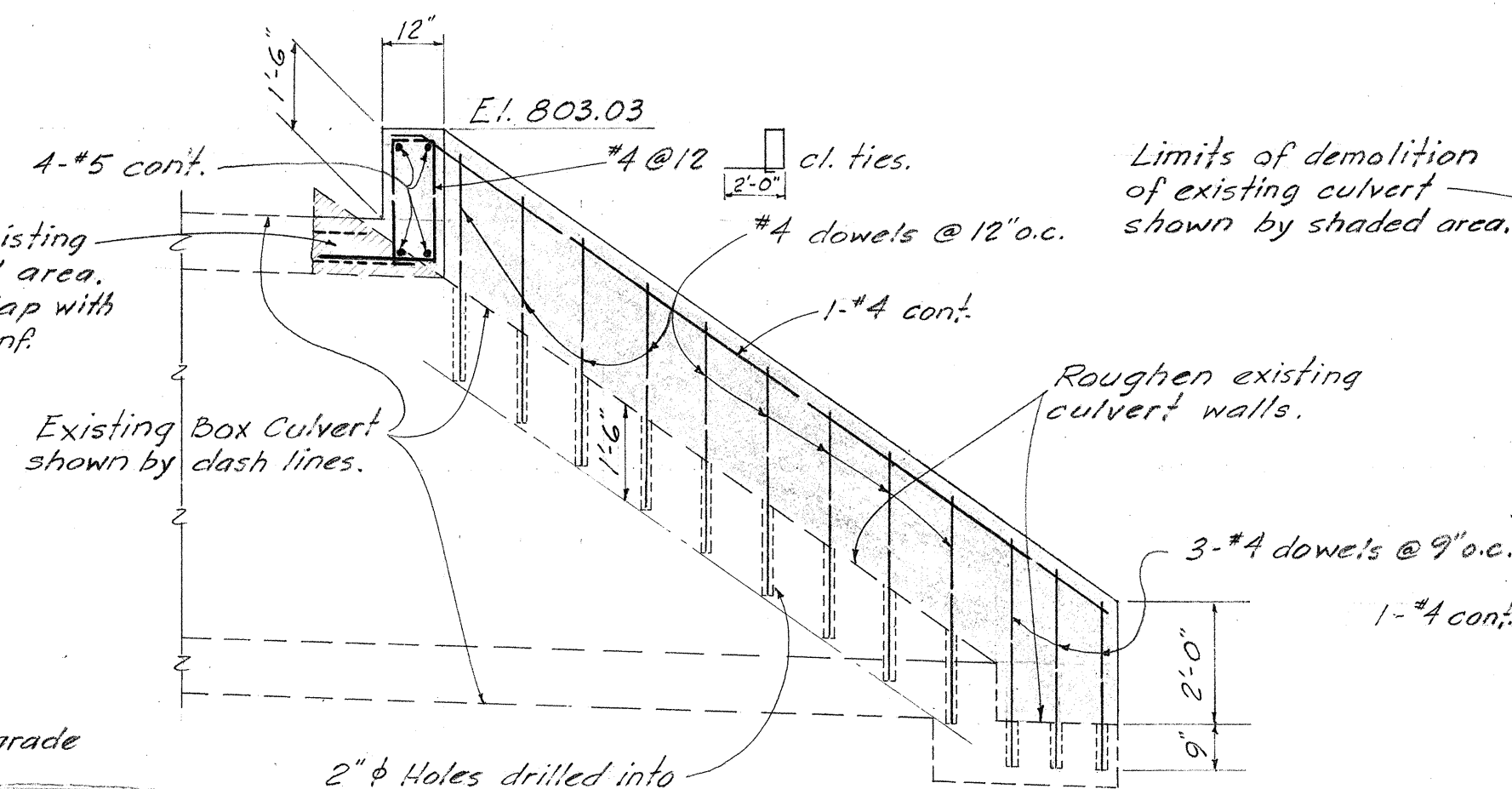
NOTE: Demolition of portion of existing culvert shall be incidental to class A-1 conc. in Box Culvert and will not be paid for separately.



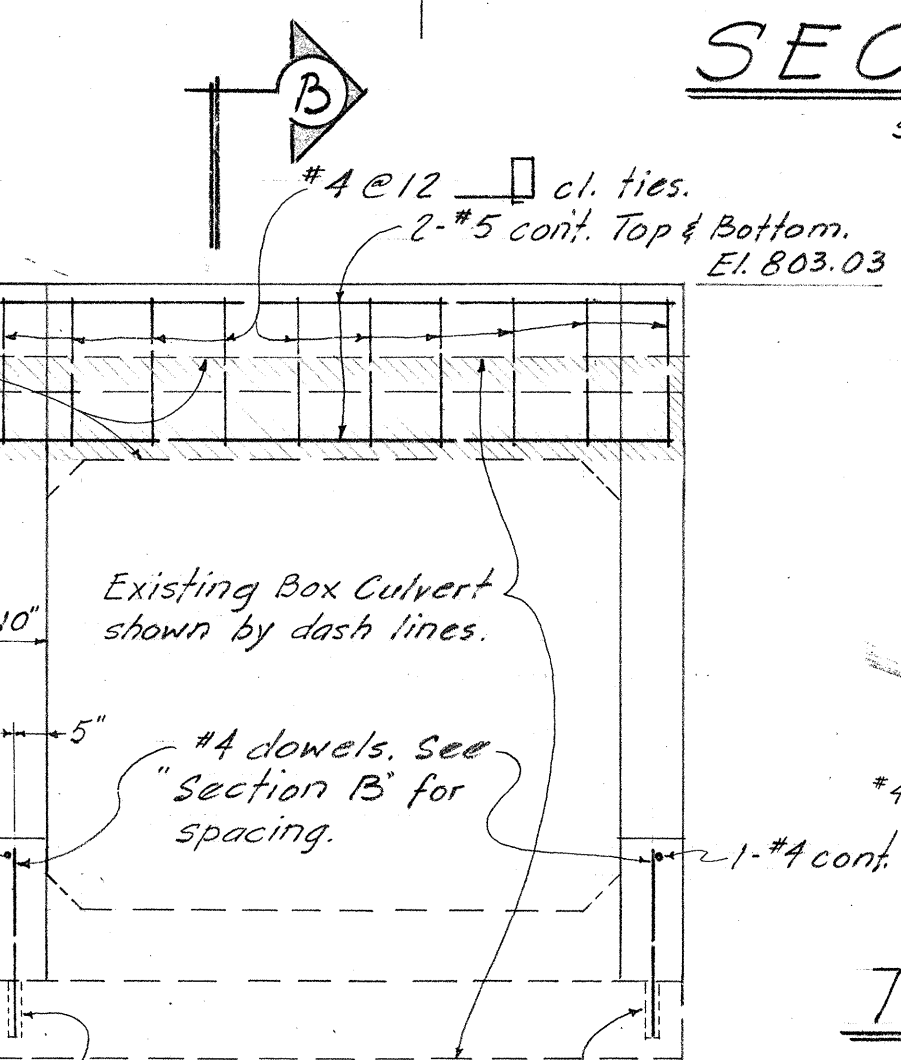
TYPICAL SECTION THRU 8'x6' BOX CULVERT EXTENSION



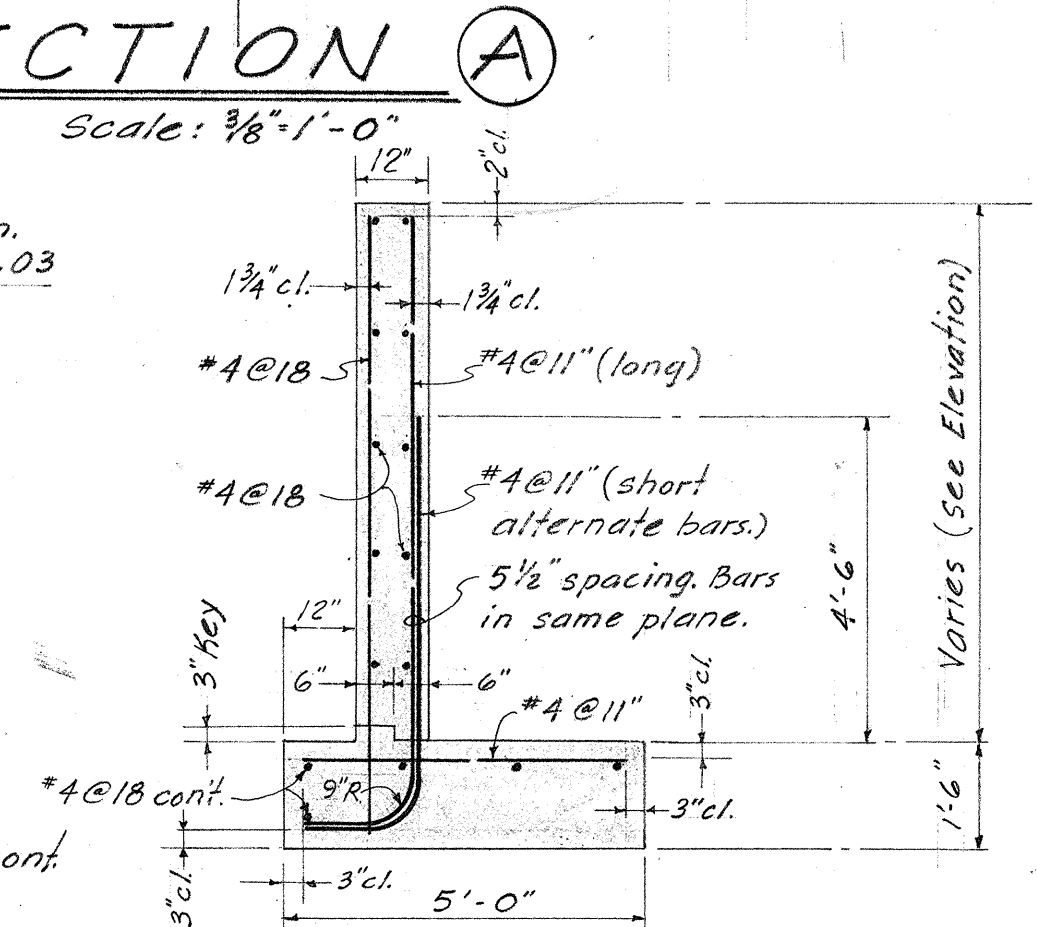
DEVELOPED INTAKE HEADWALL ELEVATION
Scale: 1/4"=1'-0"



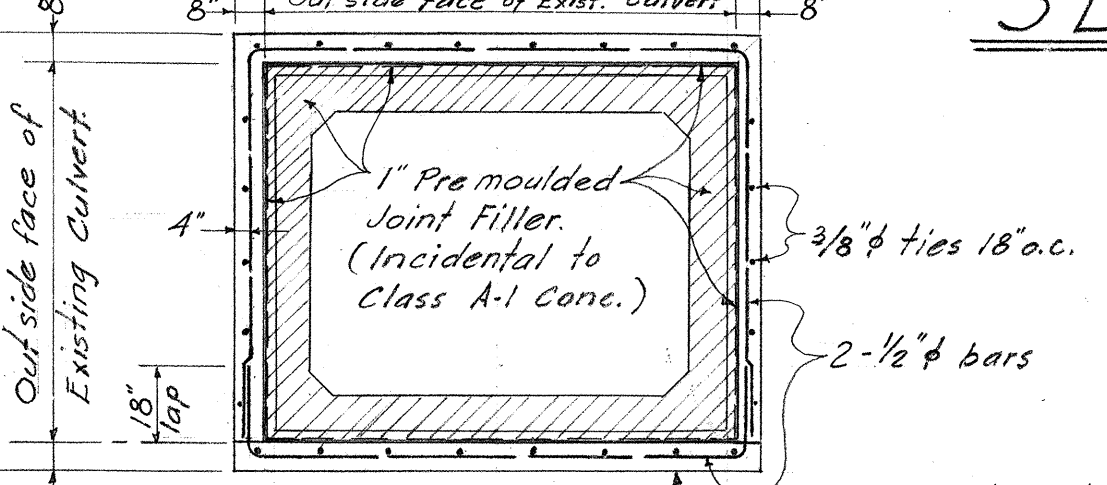
SECTION (B)
Scale: 3/8"=1'-0"



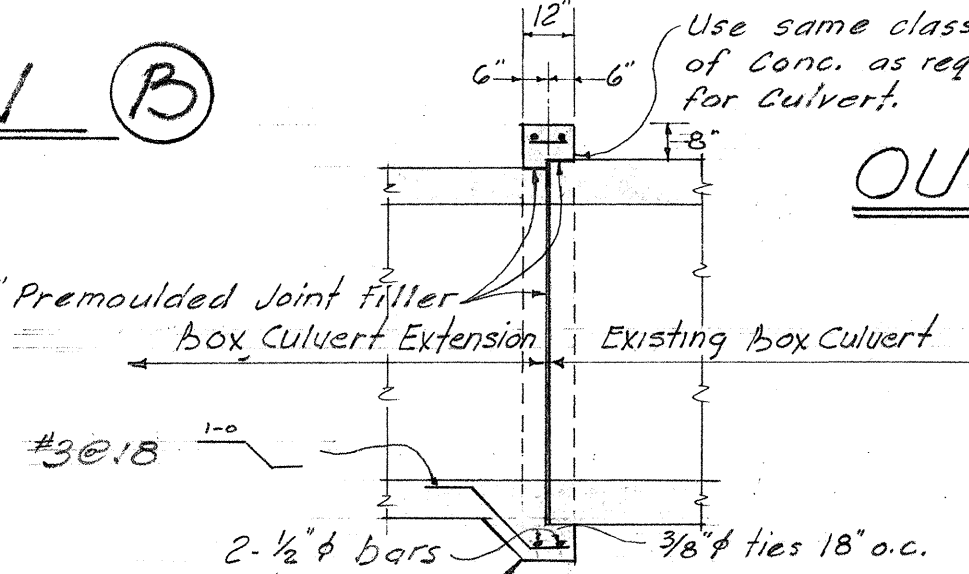
OUTLET HEADWALL ELEVATION
Scale: 3/8"=1'-0"



TYP. SECTION THRU WING WALLS
Scale: 3/8"=1'-0"



TYP. CONC. COLLAR DETAIL
Scale: 1/4"=1'-0"



SECTION (C)
Scale: 1/4"=1'-0"

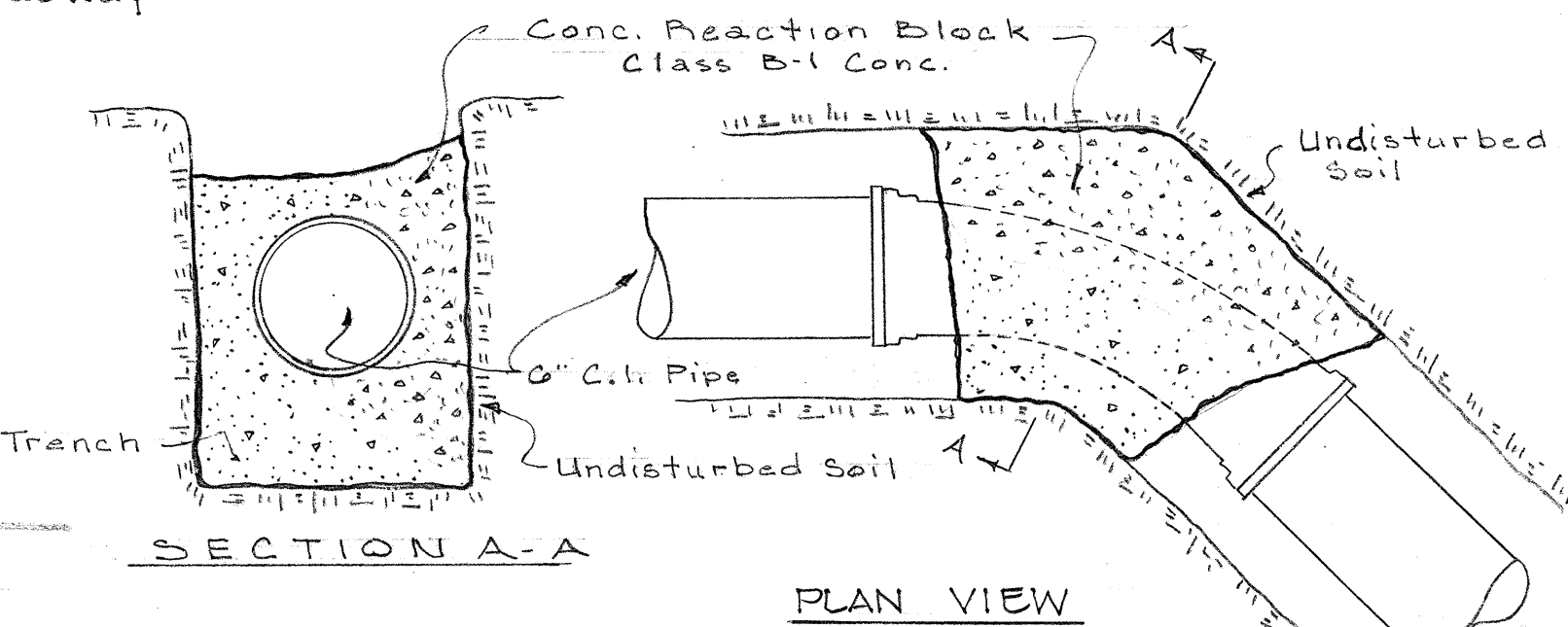
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
8'x6' BOX CULVERT EXTENSION
Sta. 79+53.25±
FARR. AVE. MOLOKAI
PROJ. N° S-0480 (1)
Dec. 17, 1962
SHEET No. OF SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	5-0480(1)	1965	12	31

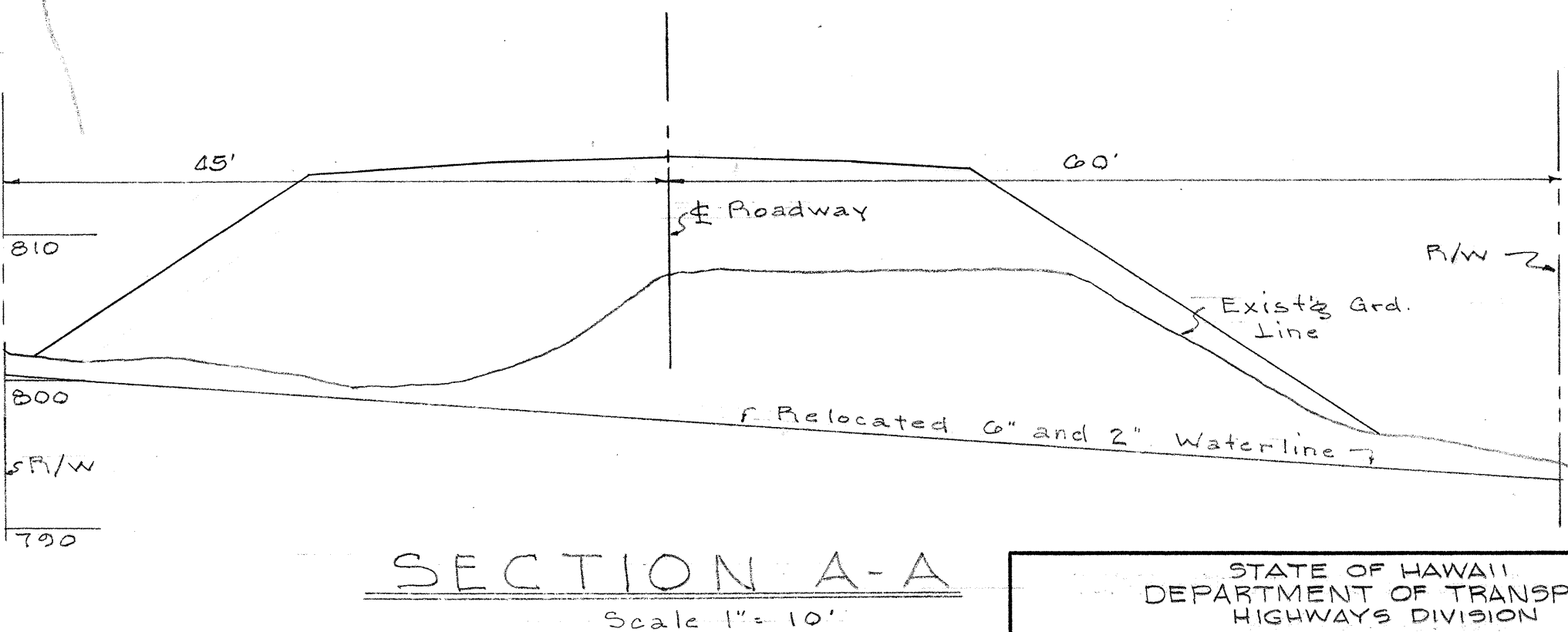
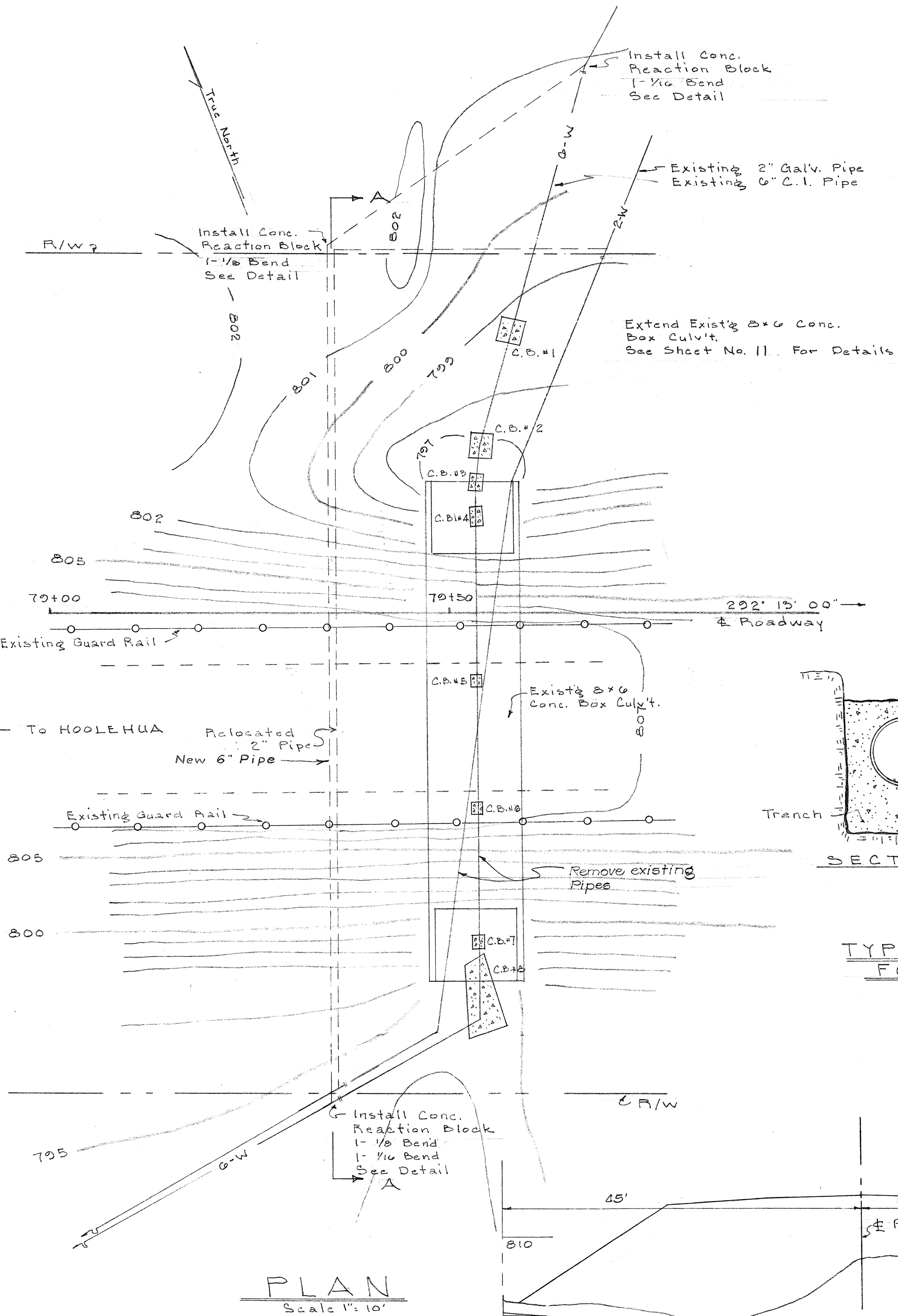
ESTIMATED QUANTITIES	
197	
Installing New 6" C.I. Pipe	446 L.F.
2- 1/8 C.I. Bend	
2- 1/8 C.I. Bend	
Relocate 2" Galv. Pipe	187 L.F.
Struct. Exc.	48 c.y.

- Note:
1. Removal of Exist'g. Conc. Blocks & 6" Pipe Payment to be incidental to installing 6" C.I. Pipe.
 2. The Following are the Dimensions of the Exist'g. Conc. Blocks.

C.B. #1	3 x 3 x 2
C.B. #2	3 x 3 x 2
C.B. #3	2 x 2 x 2
C.B. #4	2 1/2 x 1 1/2 x 2
C.B. #5	1 1/2 x 1 1/2 x 2
C.B. #6	1 1/2 x 1 1/2 x 2
C.B. #7	1 1/2 x 1 1/2 x 2
C.B. #8	2 x 4 x 2
 3. Payment for Installation of New Reaction Blocks to be incidental to installing 6" Pipe.
 4. Payment for 6" C.I. Bends to be incidental to 6" C.I. Pipe.



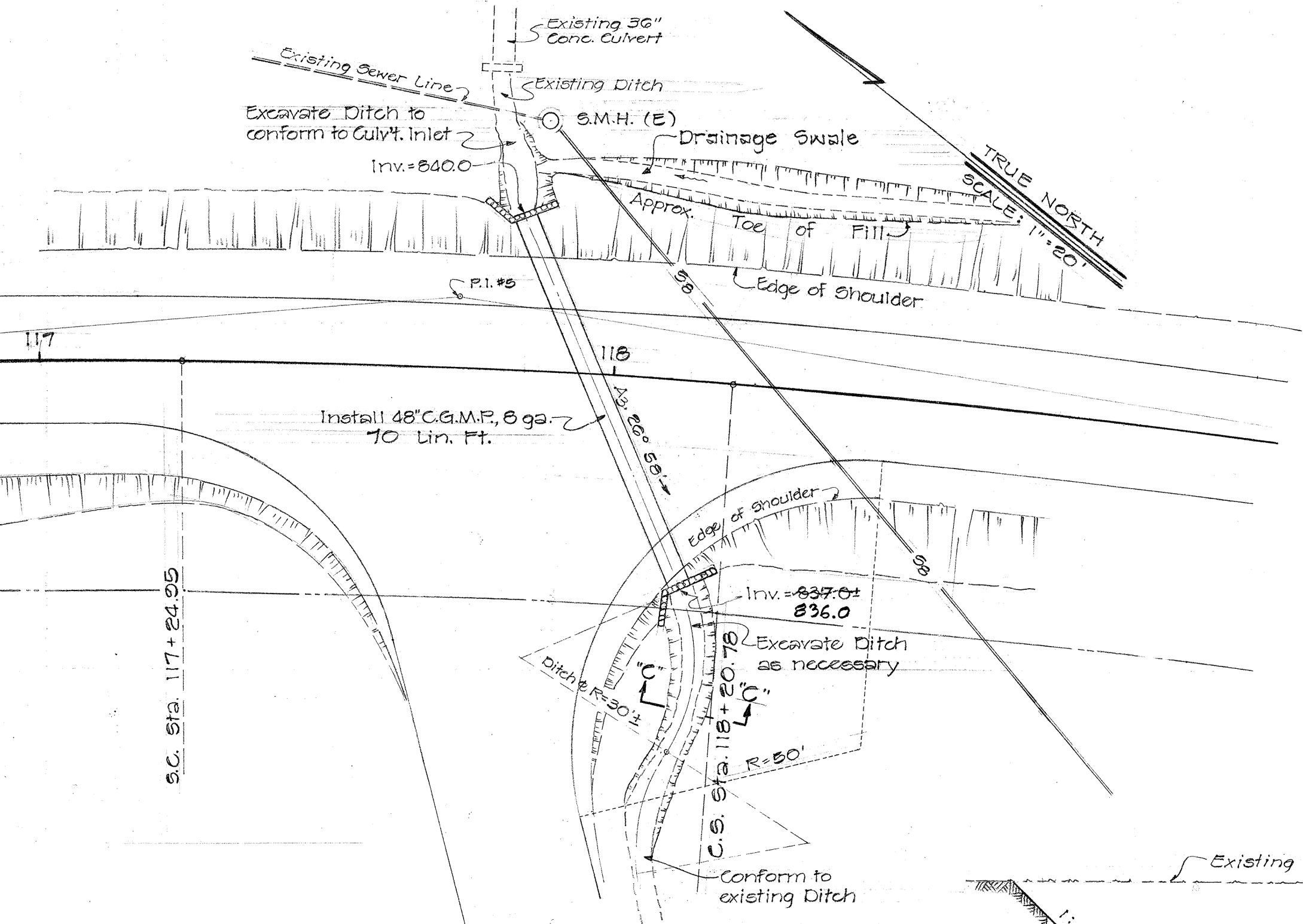
TYPICAL CONC. REACTION BLOCK FOR HORIZONTAL BENDS
NOT TO SCALE



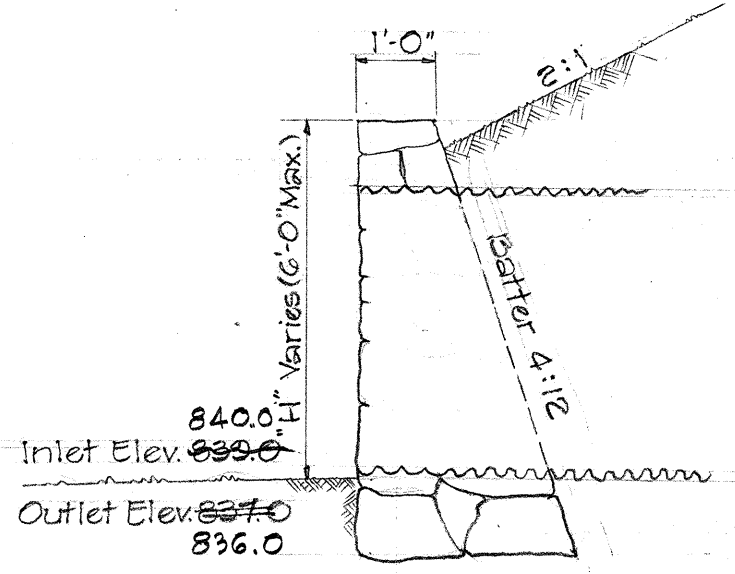
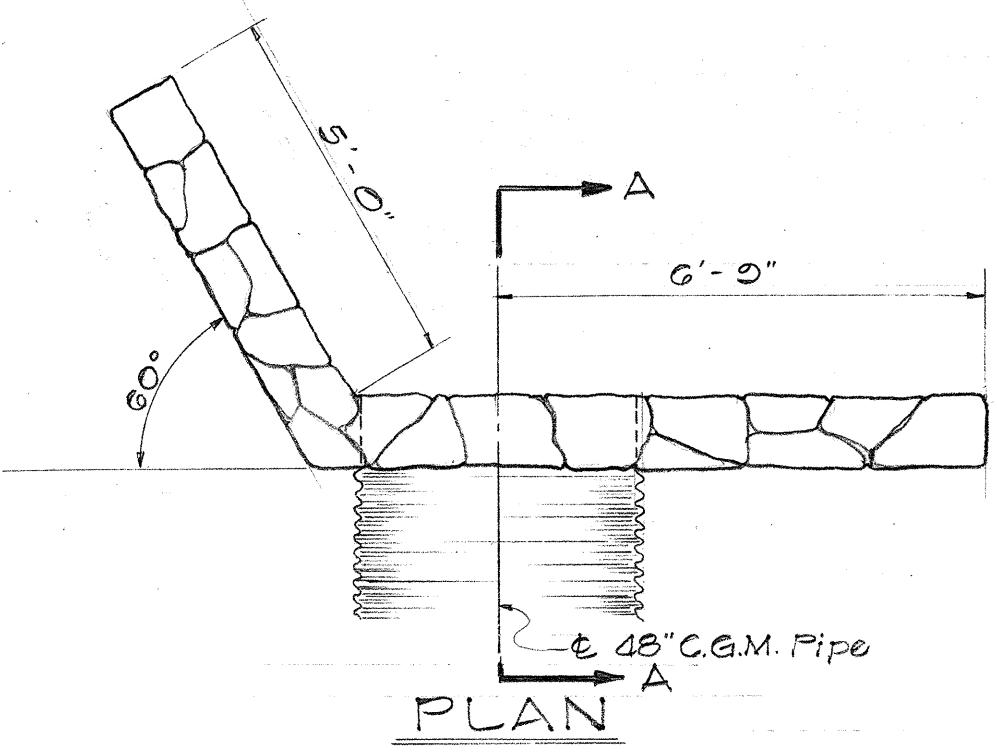
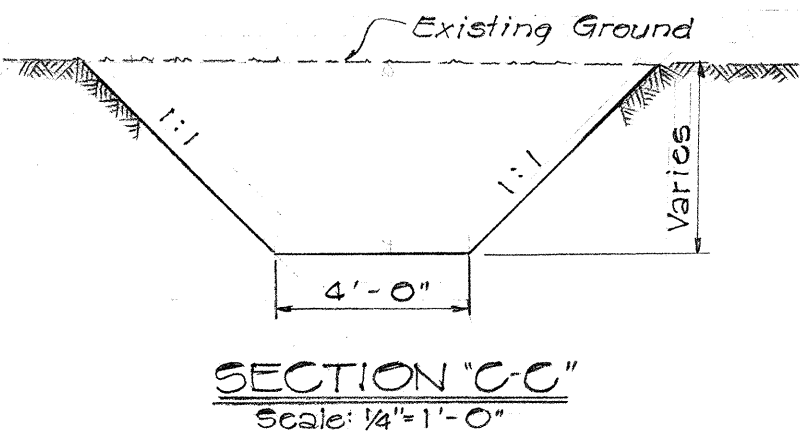
RELOCATE PIPELINES STA. 79+50

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
DETAILS	
CULVERT AT STA. 117+96±	
RELOCATE PIPELINES Sta. 79+50	
FARR. AVE.	MOLOKAI
PROJ. No. S-0480-(1)	
FEB. 6, 1965	

SHEET NO. OF SHEETS



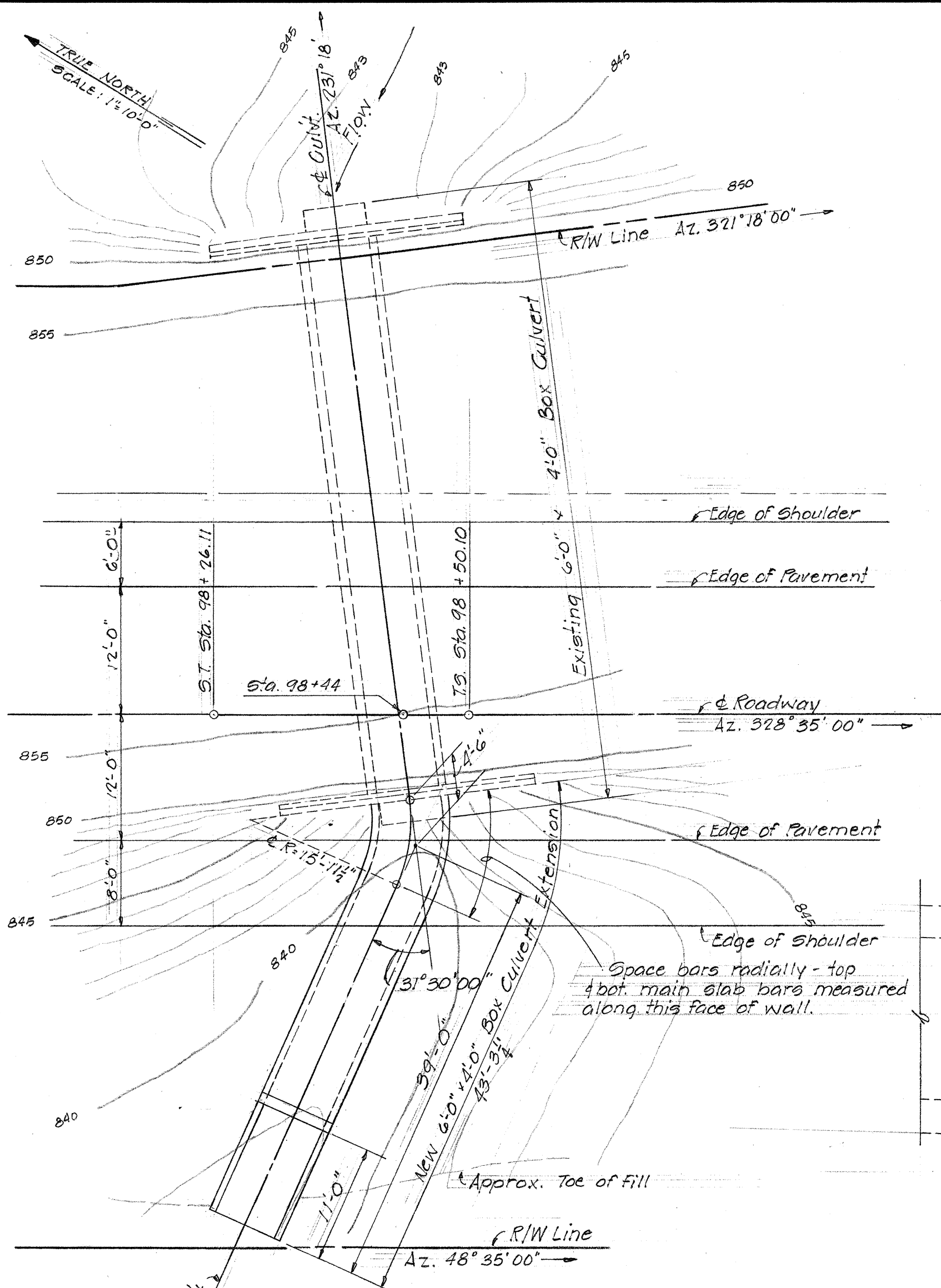
CULVERT AT STA. 117+96
Scale 1" = 20"



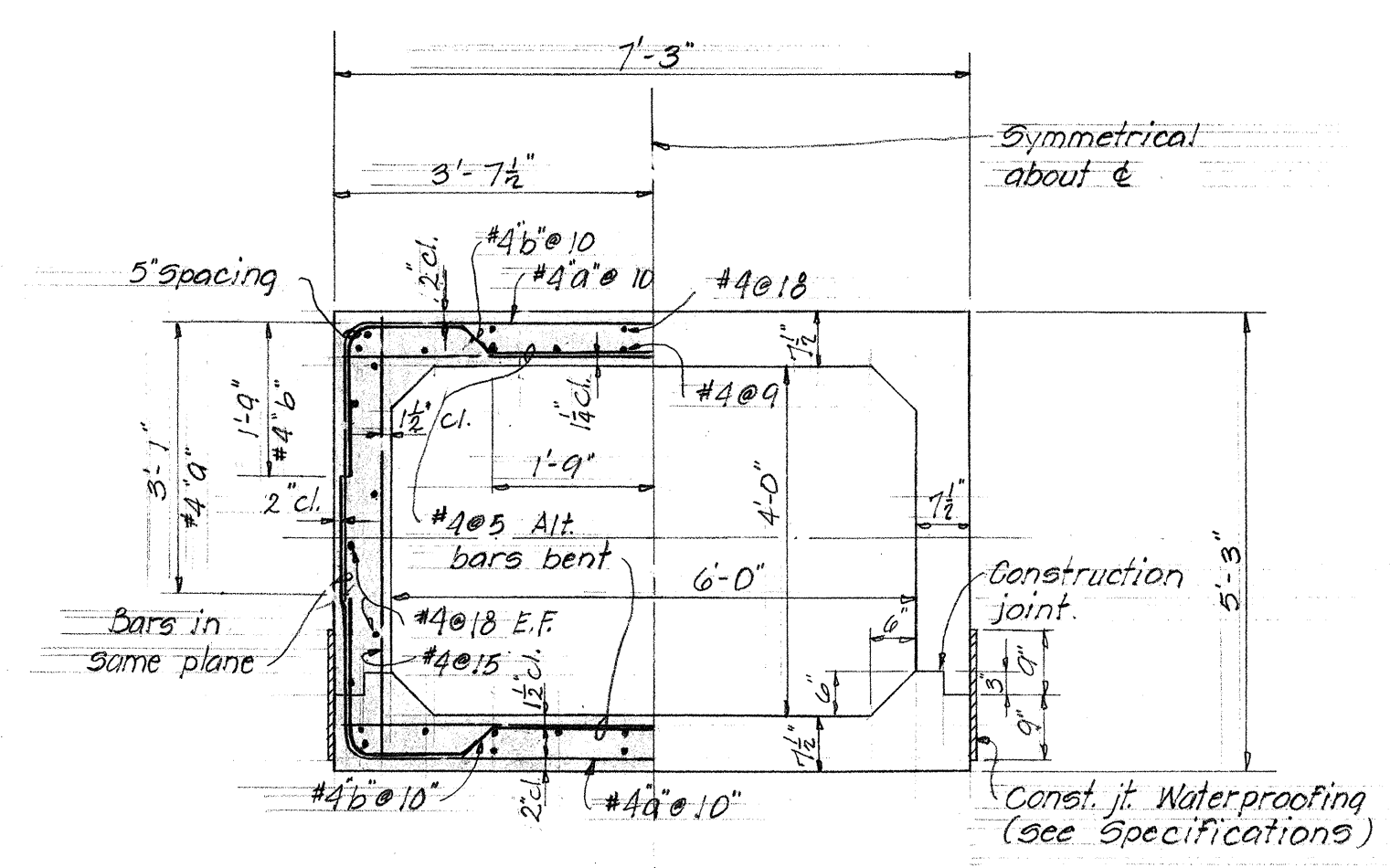
SPECIAL CRM HEADWALL AT STA. 117+96±
Scale: 3/8" = 1'-0"

SURVEY PLOTTED BY _____ DATE _____	
DESIGNED BY _____	
DRAWN BY _____	
CHECKED BY _____	
NOTE BOOK	
No. _____	

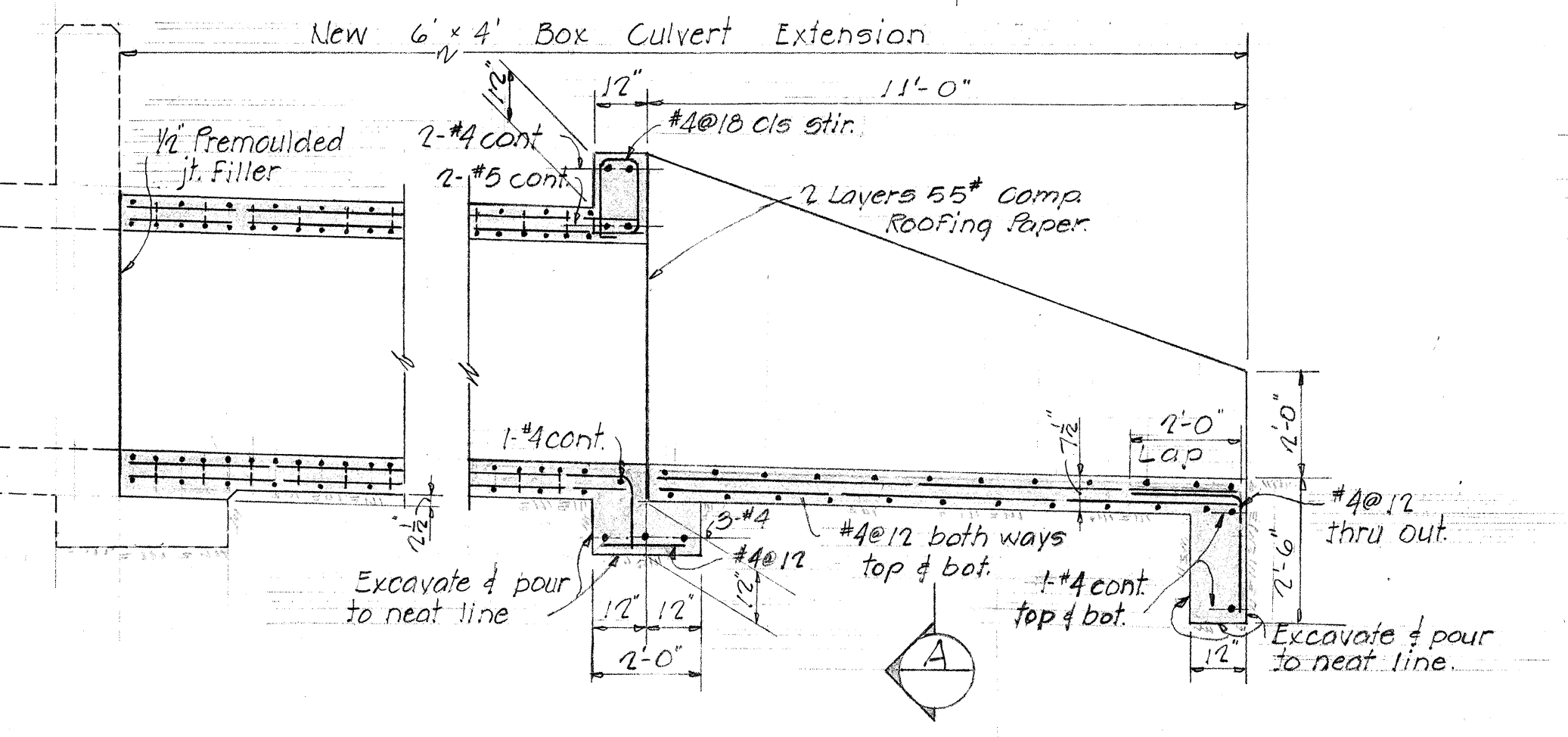
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5-0480(1)	1965	15	31



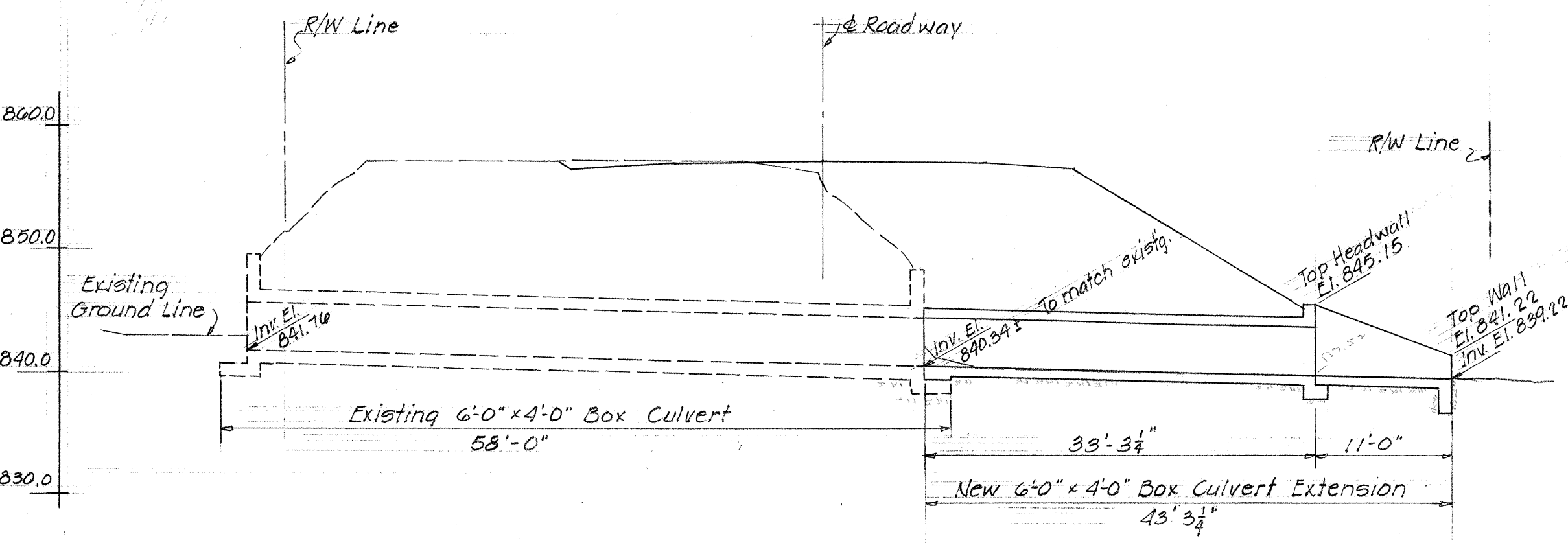
LAYOUT PLAN
SCALE: 1" = 10'-0"



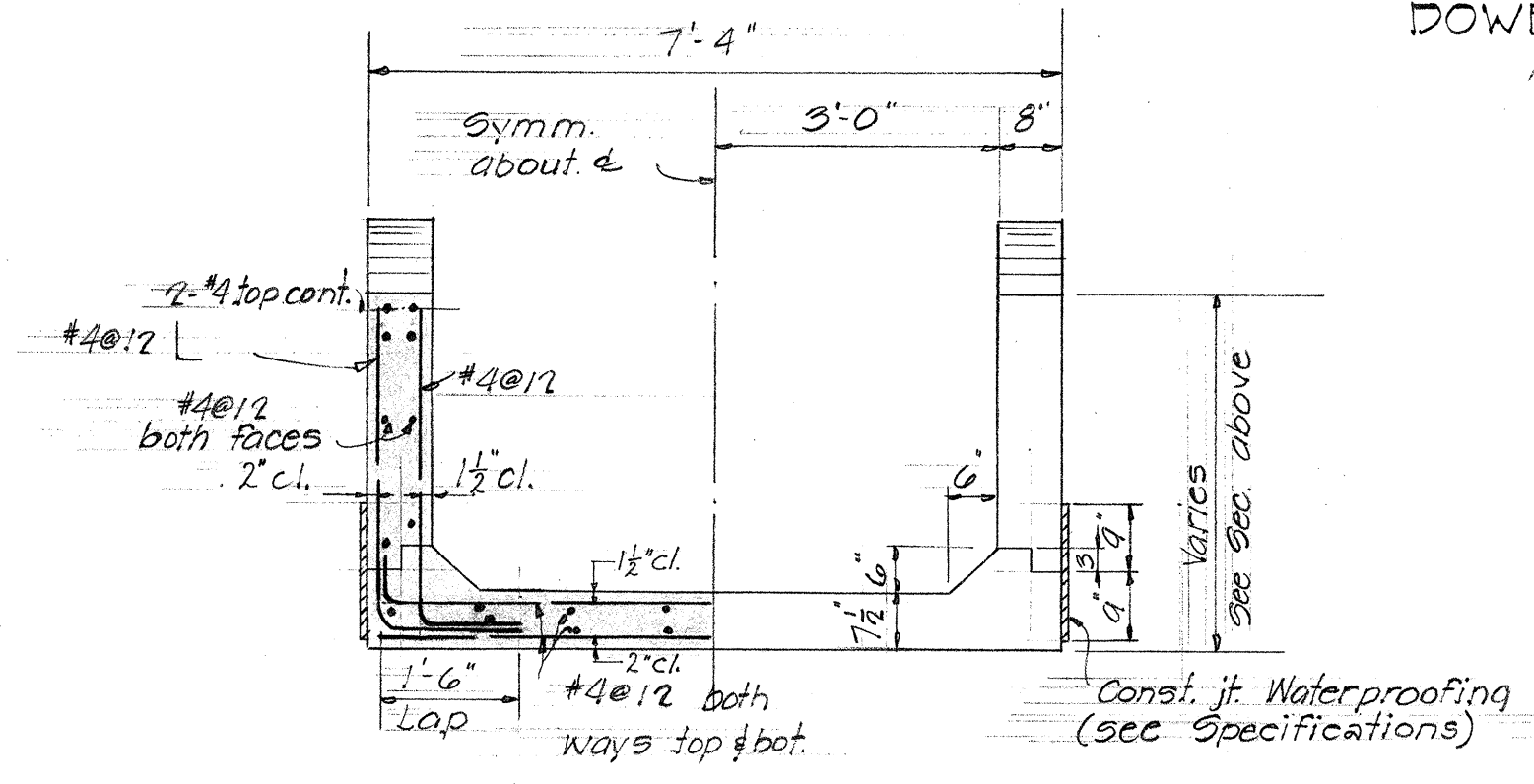
TYPICAL SECTION THRU
6' x 4' BOX CULVERT EXTENSION
SCALE: 1/2" = 1'-0"



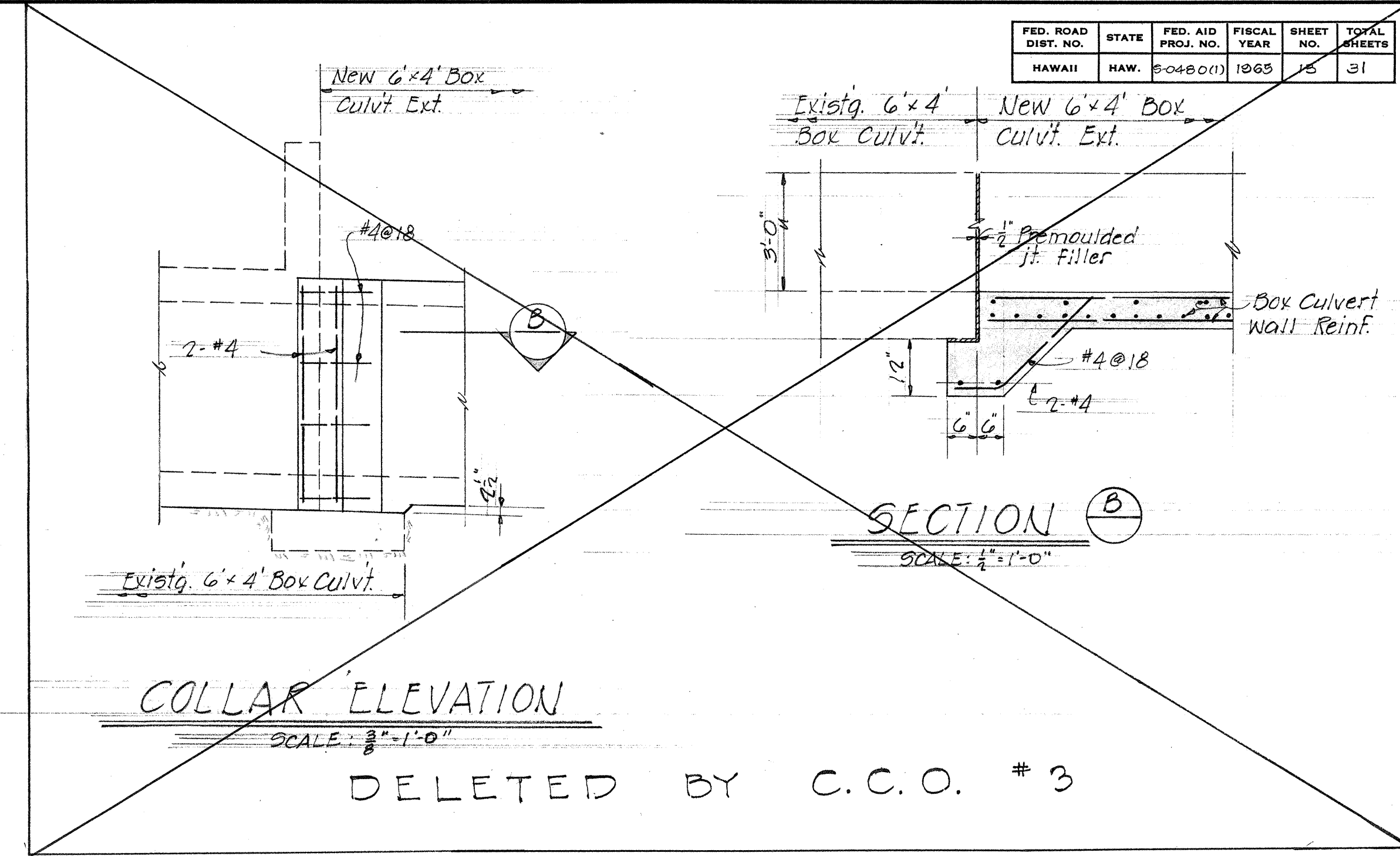
SECTION AT OUTLET END
Scale: 3/8" = 1'-0"



SECTION ALONG 6' x 4' BOX CULVT.
SCALE: 1" = 10'-0"



SECTION A
SCALE: 1/2" = 1'-0"

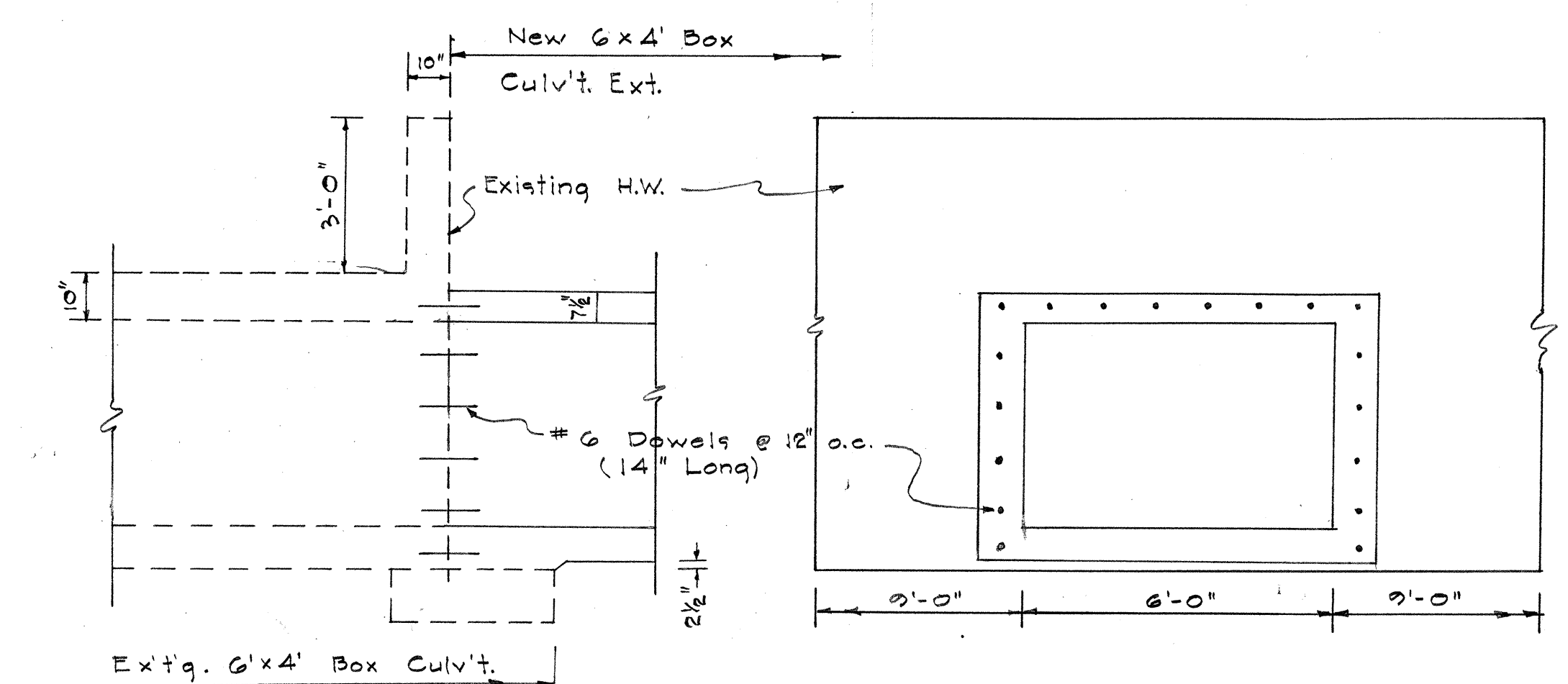


COLLAR ELEVATION
SCALE: 3/8" = 1'-0"

SECTION B
SCALE: 1/2" = 1'-0"

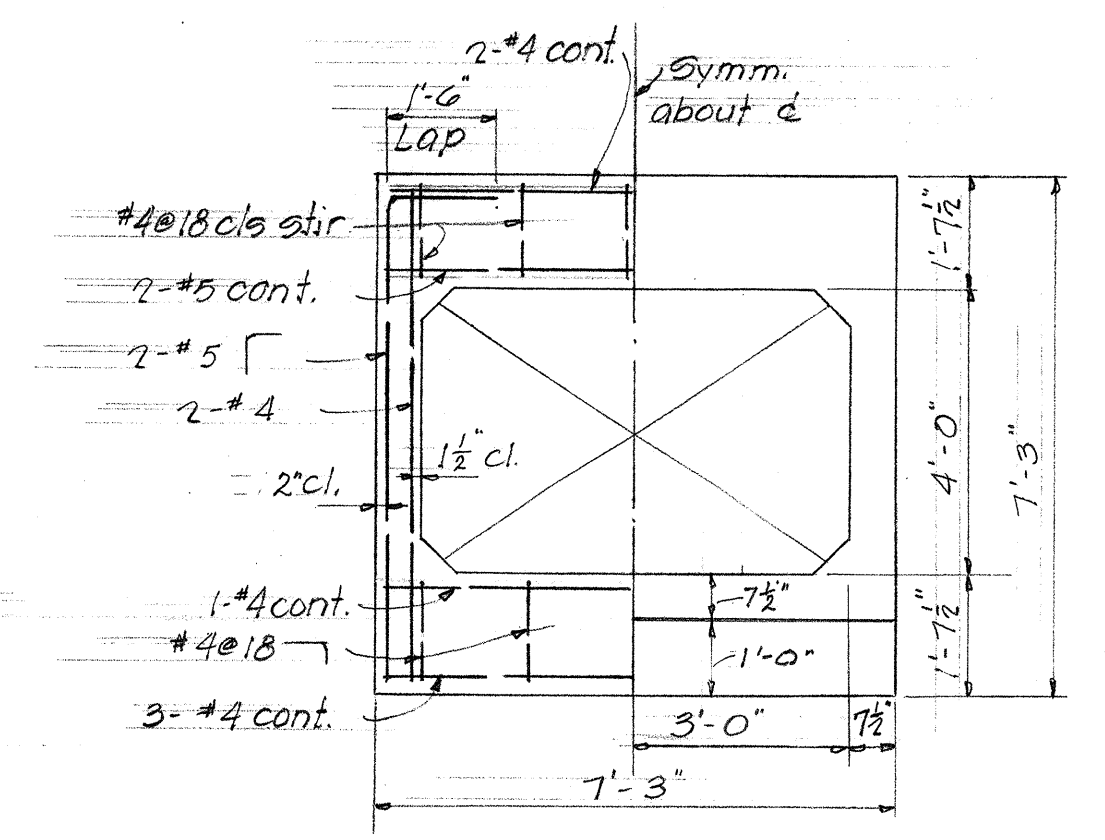
ESTIMATED QUANTITIES

Class A-1 Concrete	24.00	cy.	24.3
Reinforcing Steel	3,164.00	lbs.	3,390
Structural Excavation	11.08	cy.	17



DOWEL CONNECTION ELEVATION
SCALE: 3/8" = 1'-0"

HEADWALL ELEVATION
DOWEL CONNECTION ON TO EXISTING CULVERT BY C.C.O. #3



HEADWALL ELEVATION
SCALE: 3/8" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

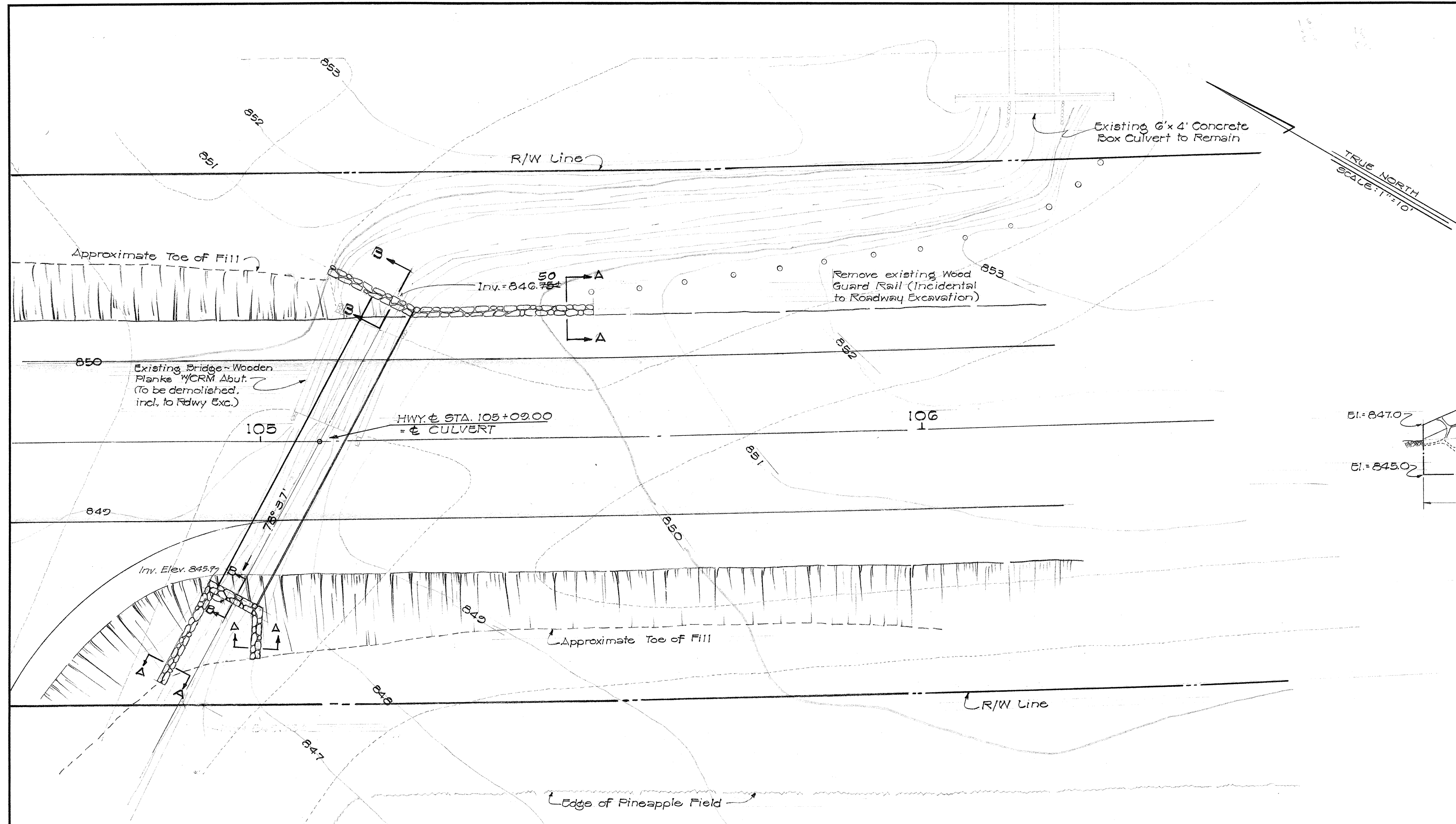
**6' x 4' BOX CULVERT
EXTENSION**

FARRINGTON AVE. MOLOKAI PROJ. No. 5-0480(1)
DEC. 17, 1962

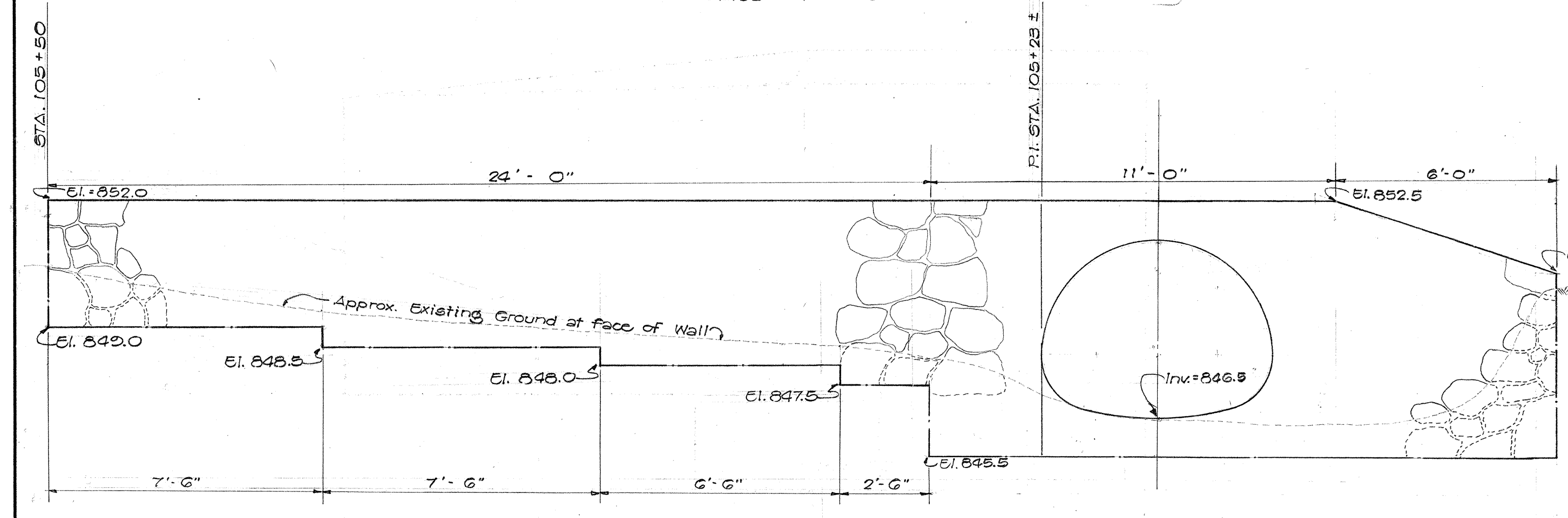
SHEET No. OF SHEETS

SURVEY PLOTTED BY	DATE
DESIGNED BY	12-12-62
NOTED BY	12-16-62
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

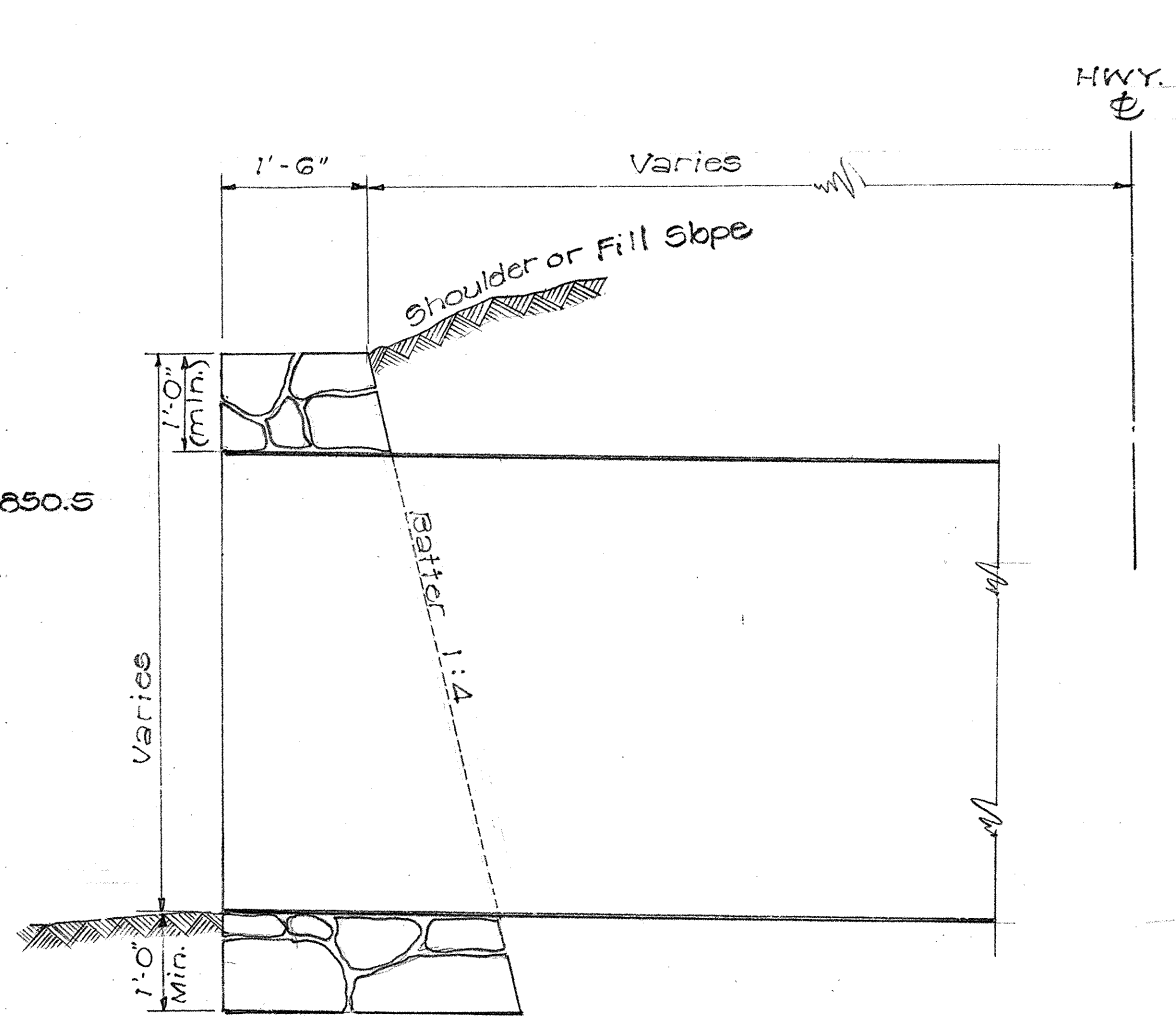
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5-0480(1)	1963	14	31



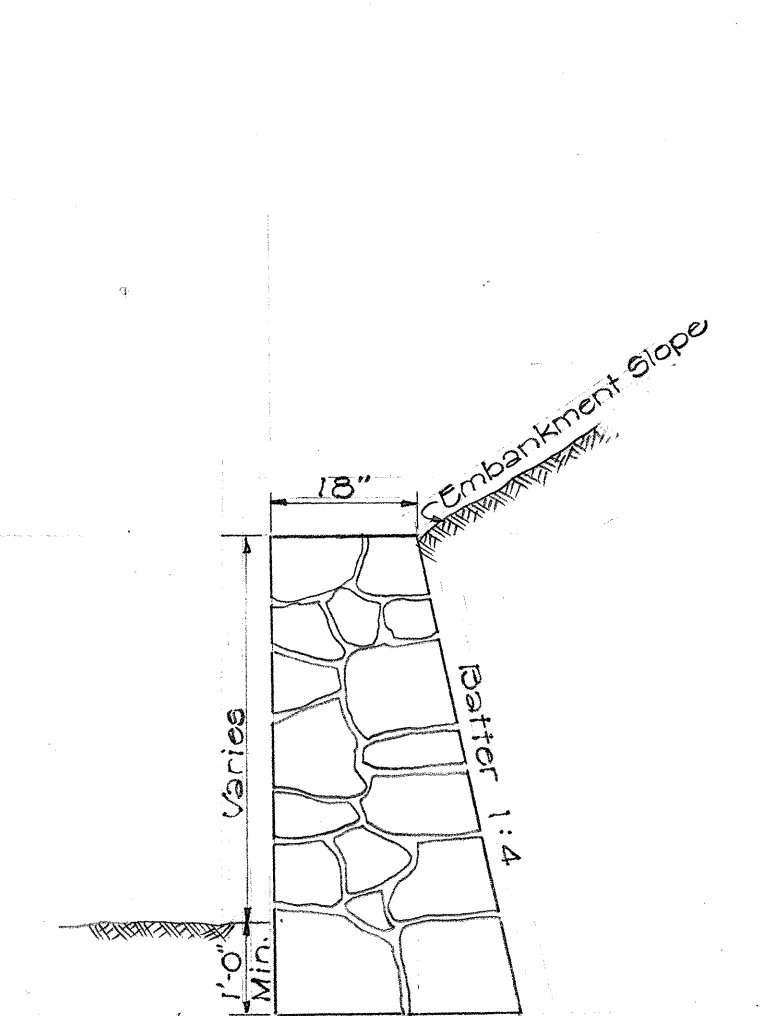
PLAN
SCALE: 1" = 10'



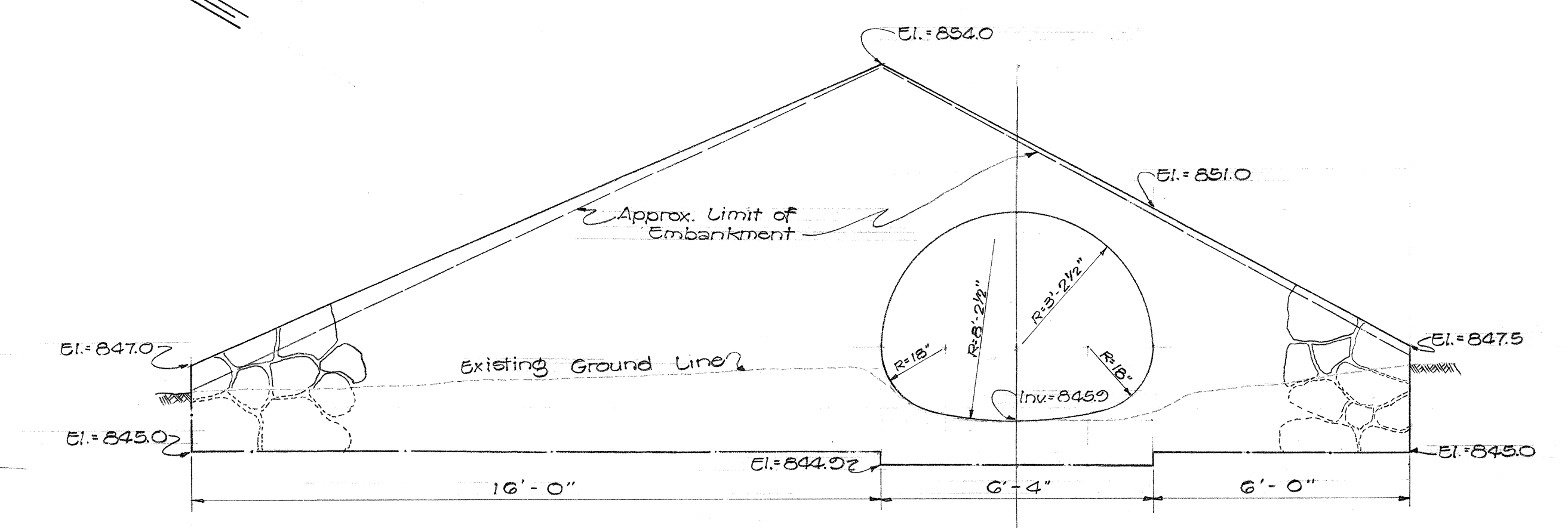
DEVELOPED INTAKE HEADWALL ELEVATION
SCALE: 3/8" = 1'-0"



SECTION "B-B"
NOT TO SCALE



SECTION "A-A"
NOT TO SCALE



DEVELOPED OUTLET HEADWALL ELEVATION
SCALE: 3/8" = 1'-0"

NOTE:
The dimensions shown in the opening are typical for 6'-4" x 4'-9" Sectional Plate Pipe Arch.

ESTIMATED QUANTITIES

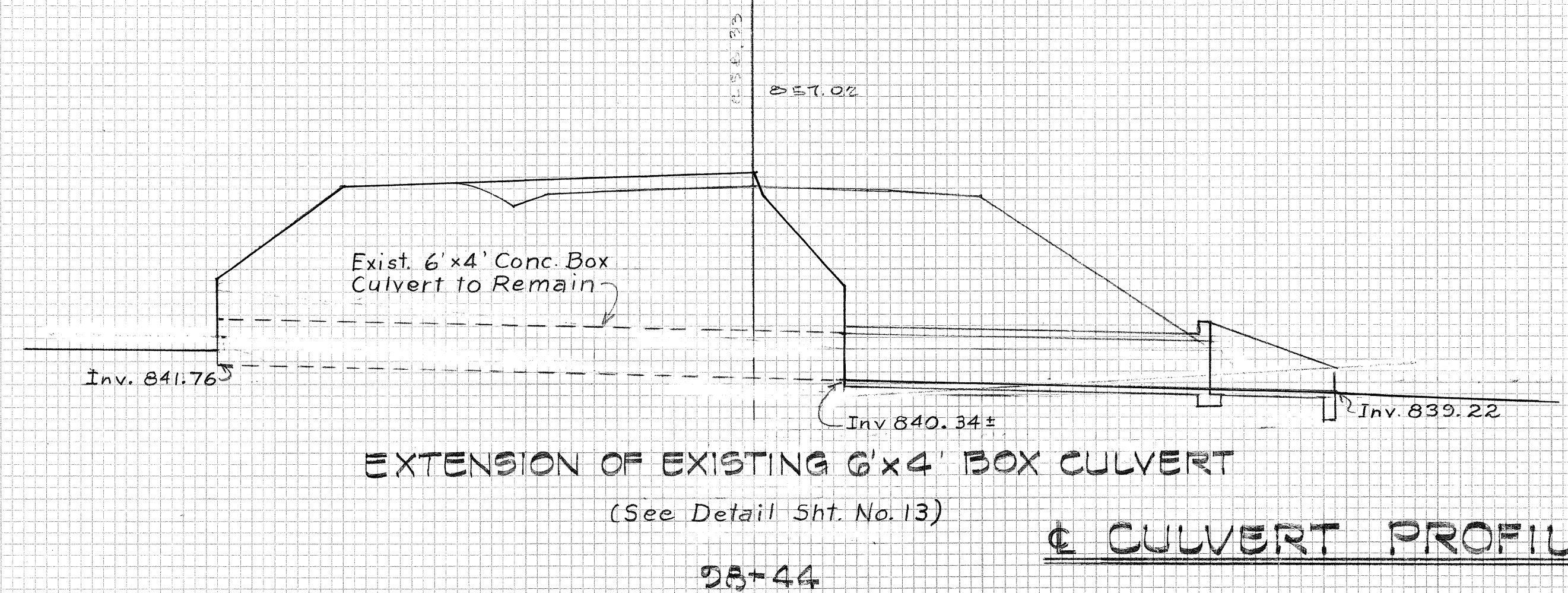
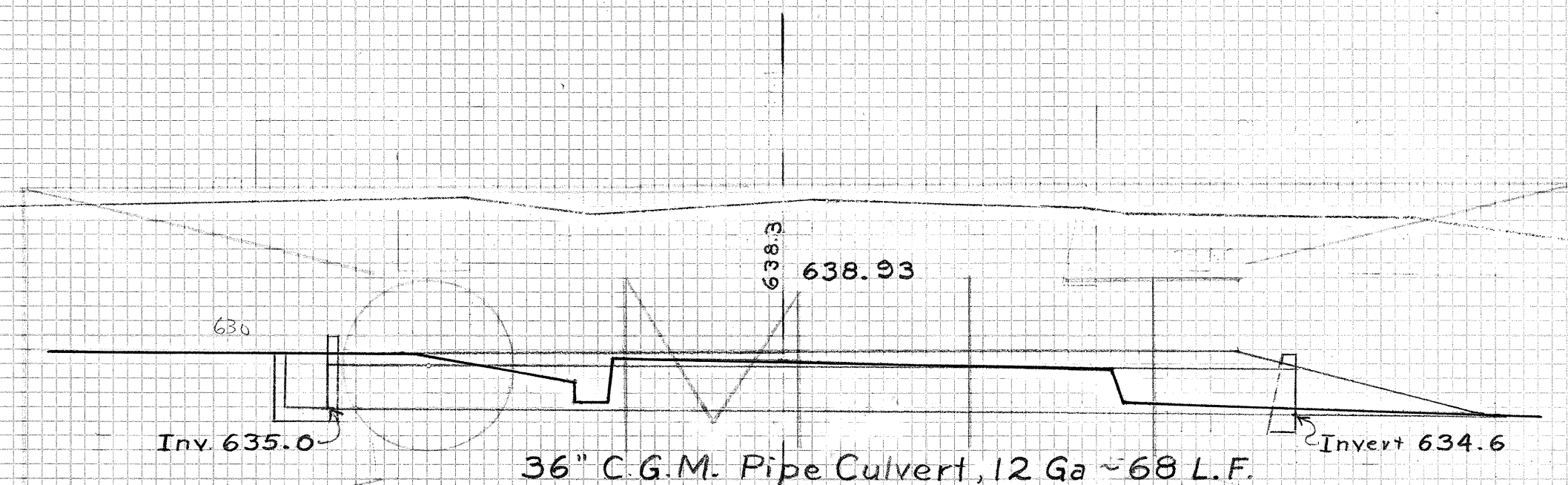
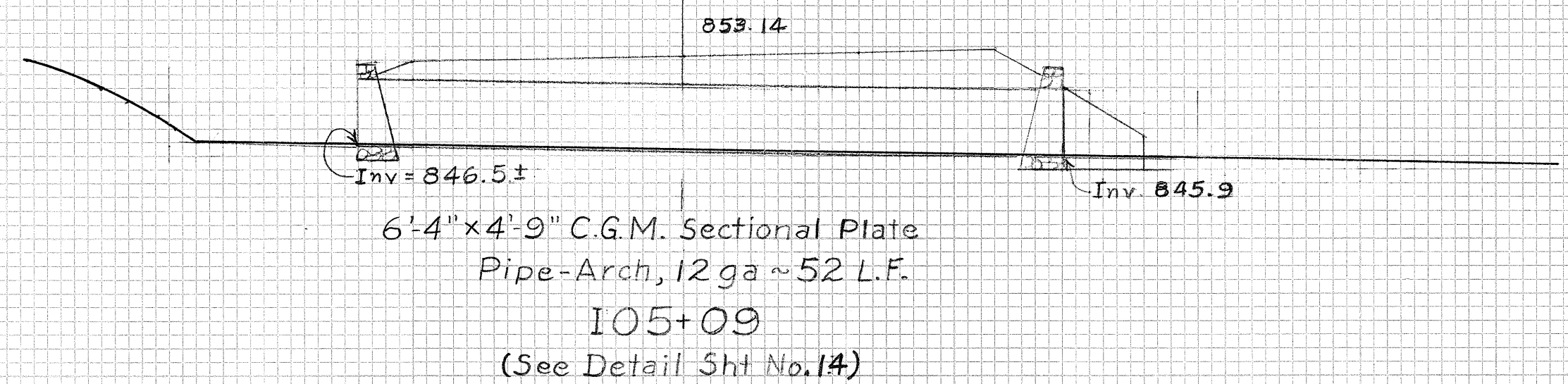
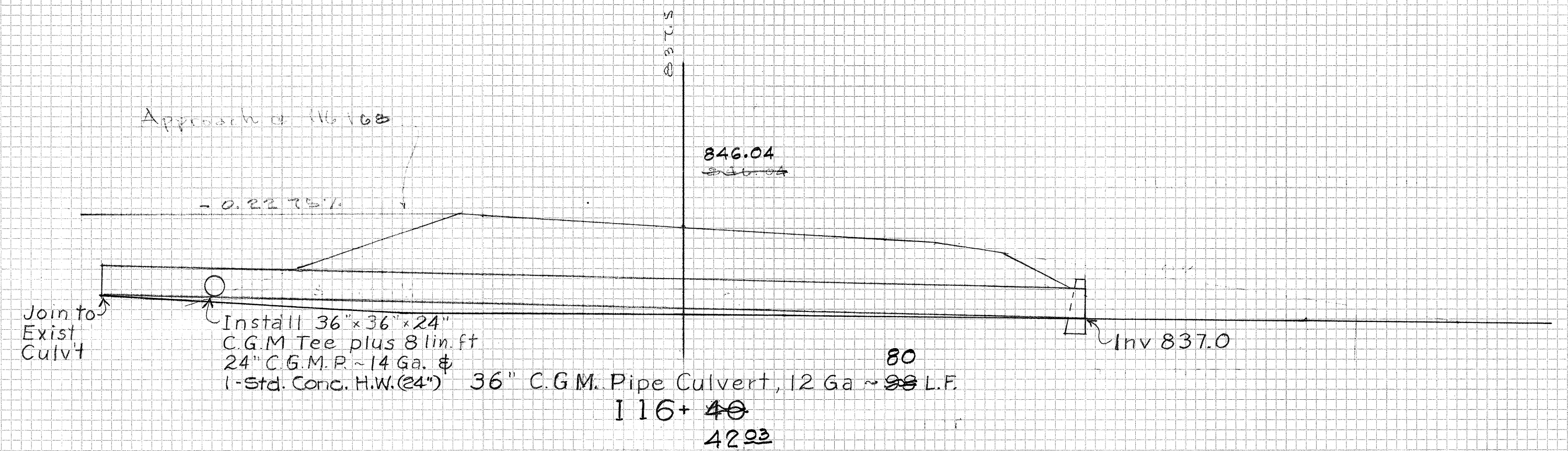
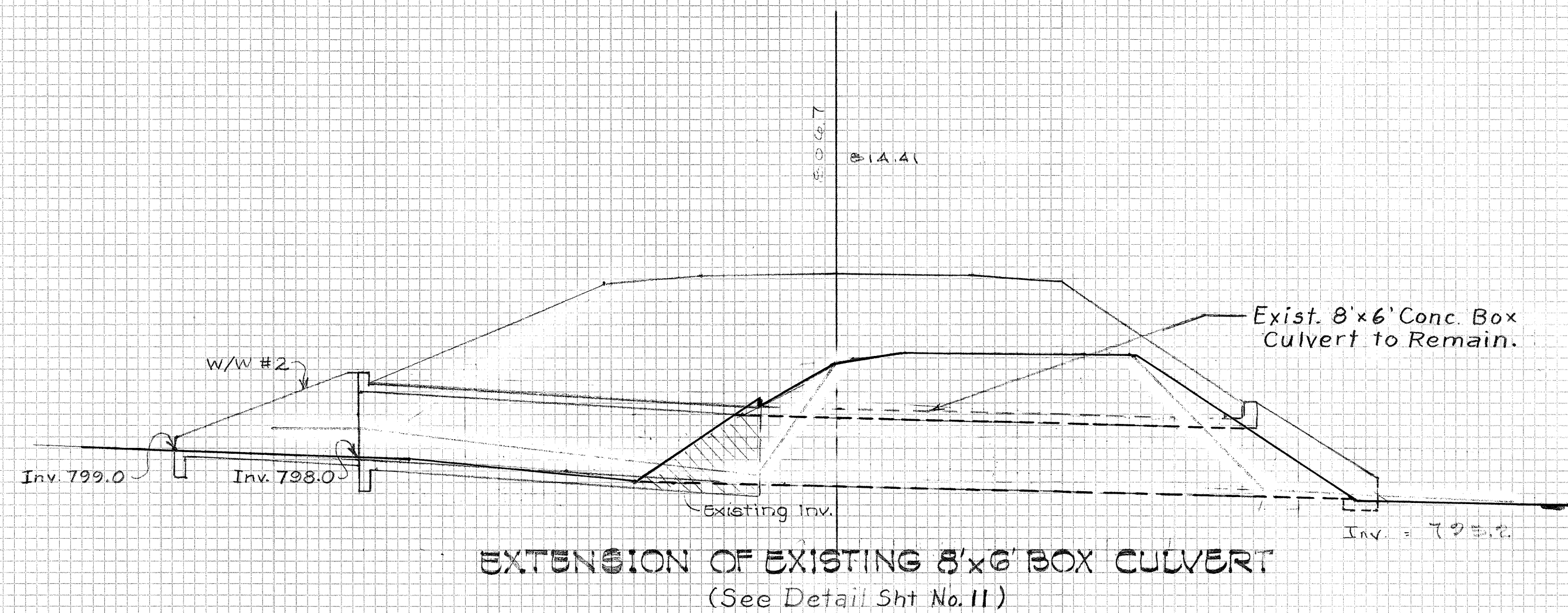
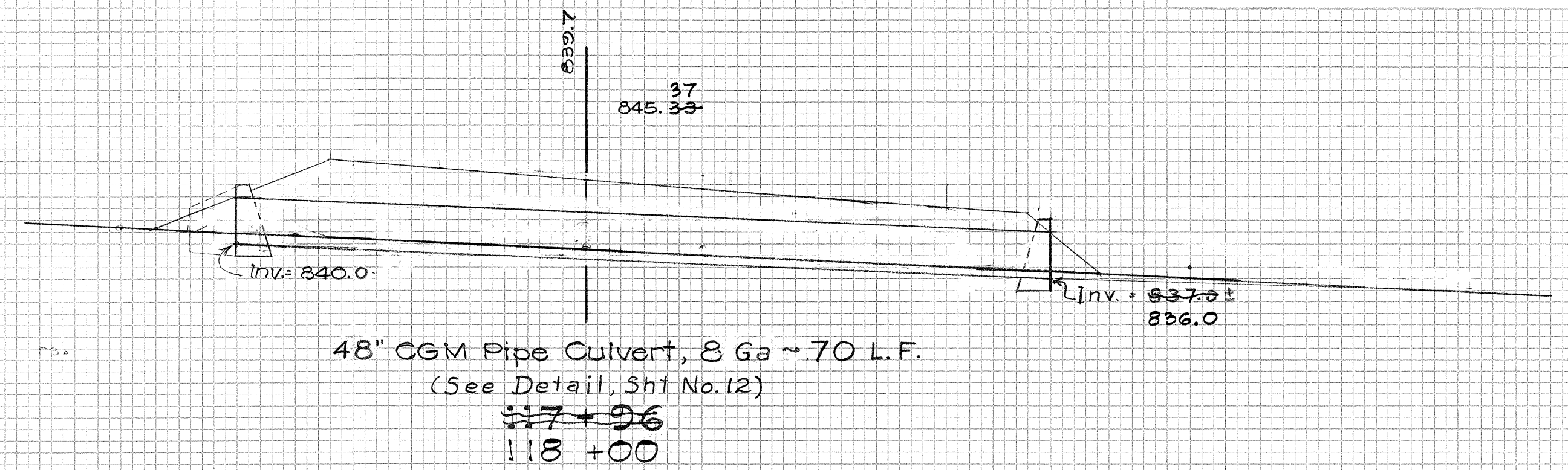
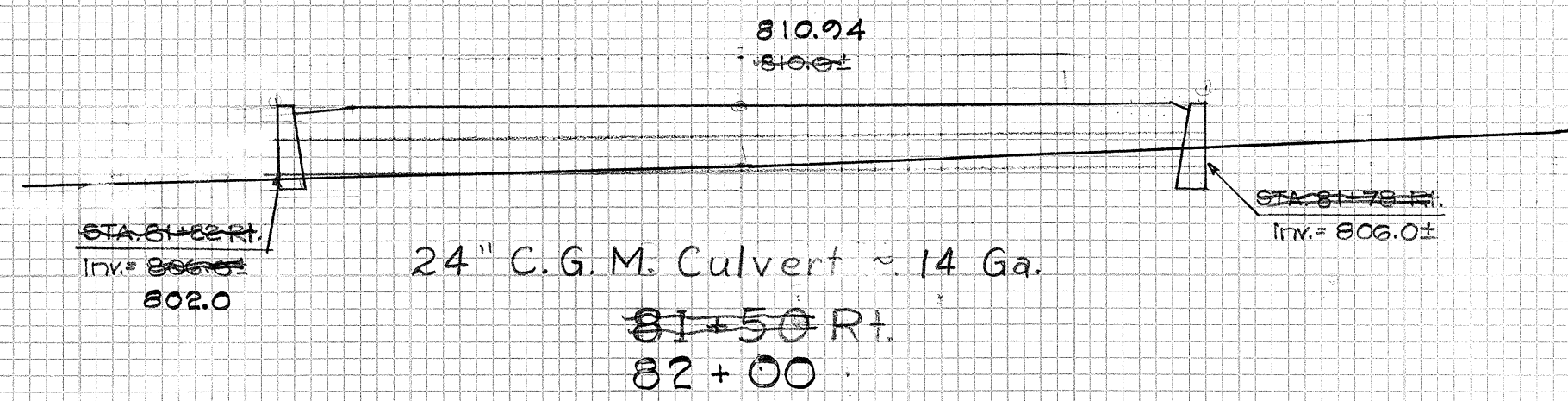
Struct. Exc.	57 40 cu. yd.
C.R.M.	27.72 27 cu. yd.
6'-4" x 4'-9" Cor. Galv. Metal Sectional Plate Pipe Arch, 12 Ga.	52 lin. ft.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL
6'-4" x 4'-9" C.G.M. SECTIONAL PLATE
PIPE ARCH W/CRM HEADWALLS
STA. 105+02
FARRINGTON AVENUE, MOLOKAI
PROJECT NO. 5-0480(1)
SCALE: AS NOTED JAN 1963

SHEET No. OF SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	



CULVERT PROFILES