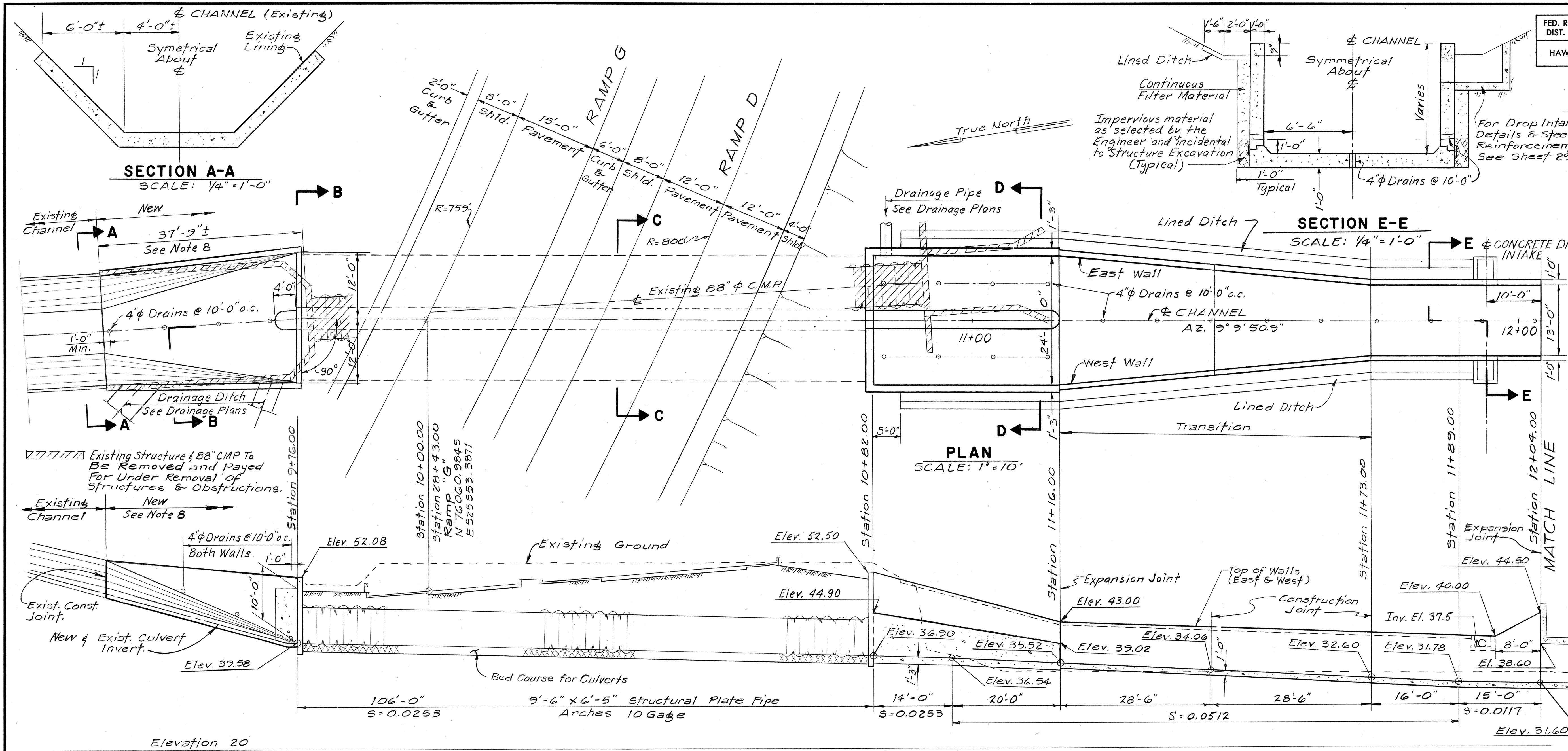
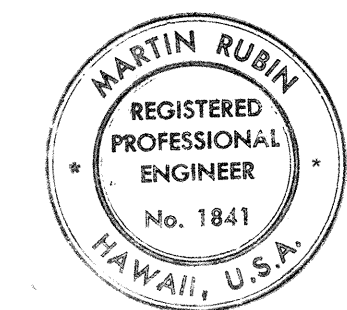


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(88):13	1971	287	457



INLET STRUCTURAL EXCAVATION PAYMENT LIMITS

Not To Scale

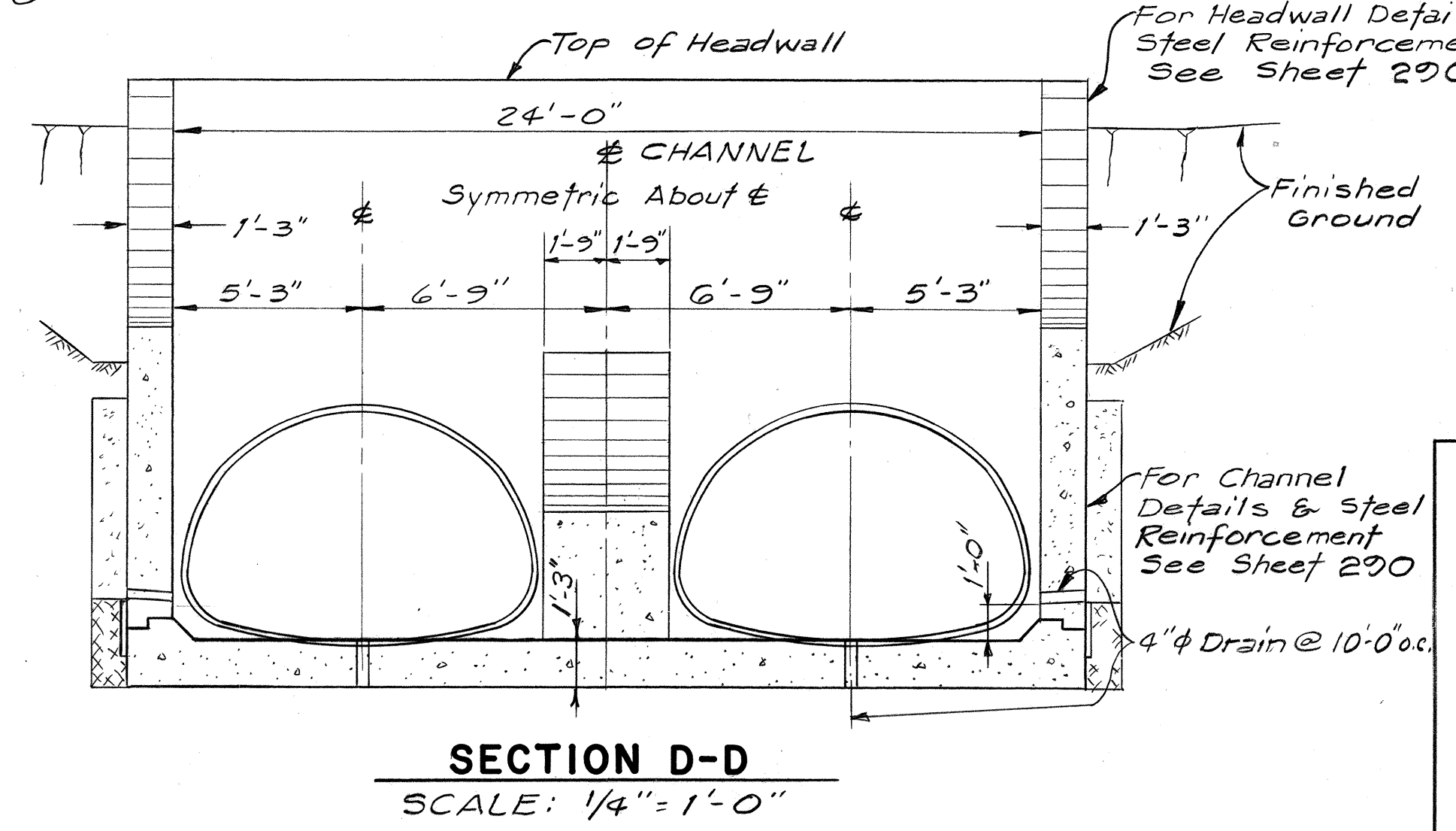
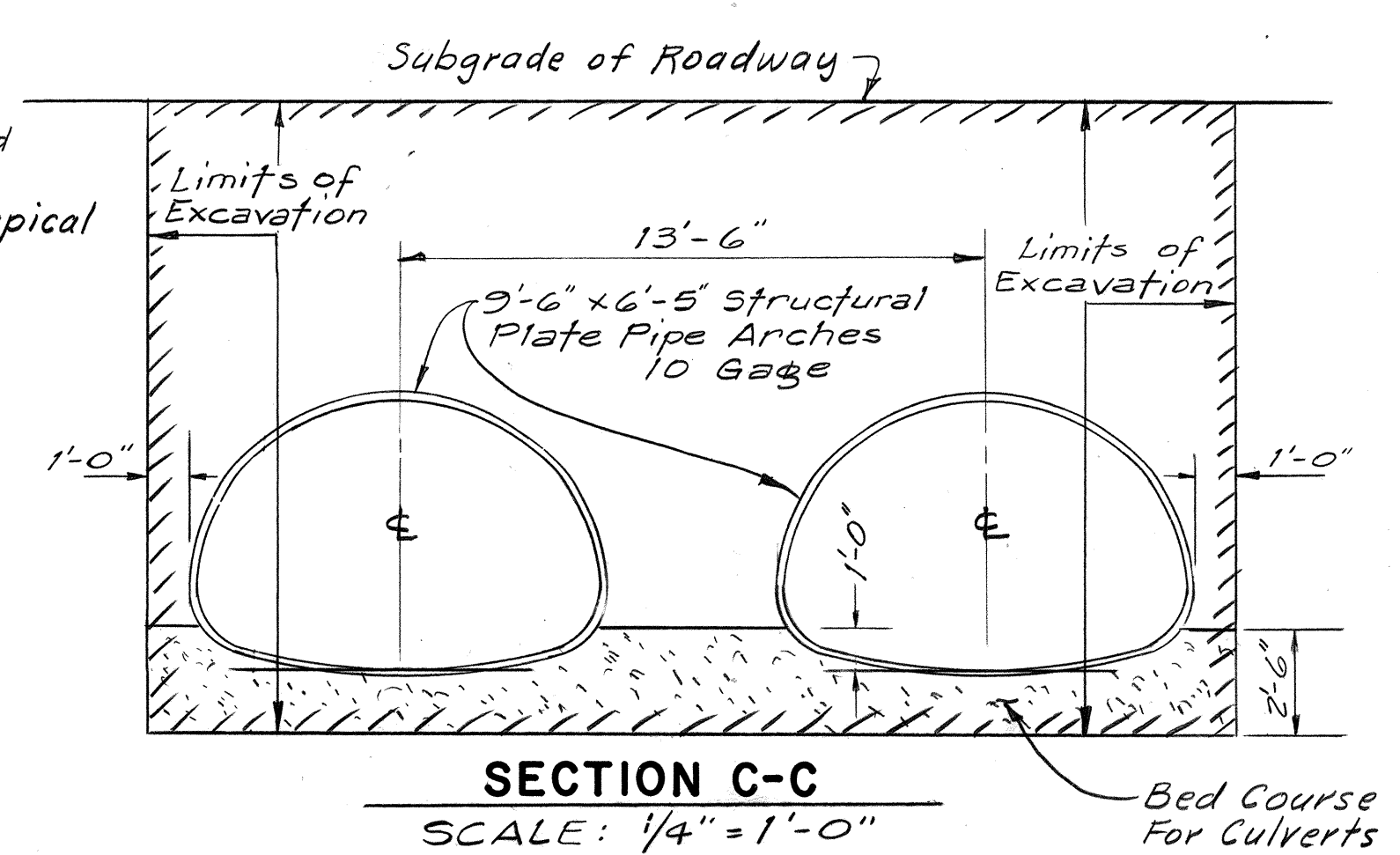
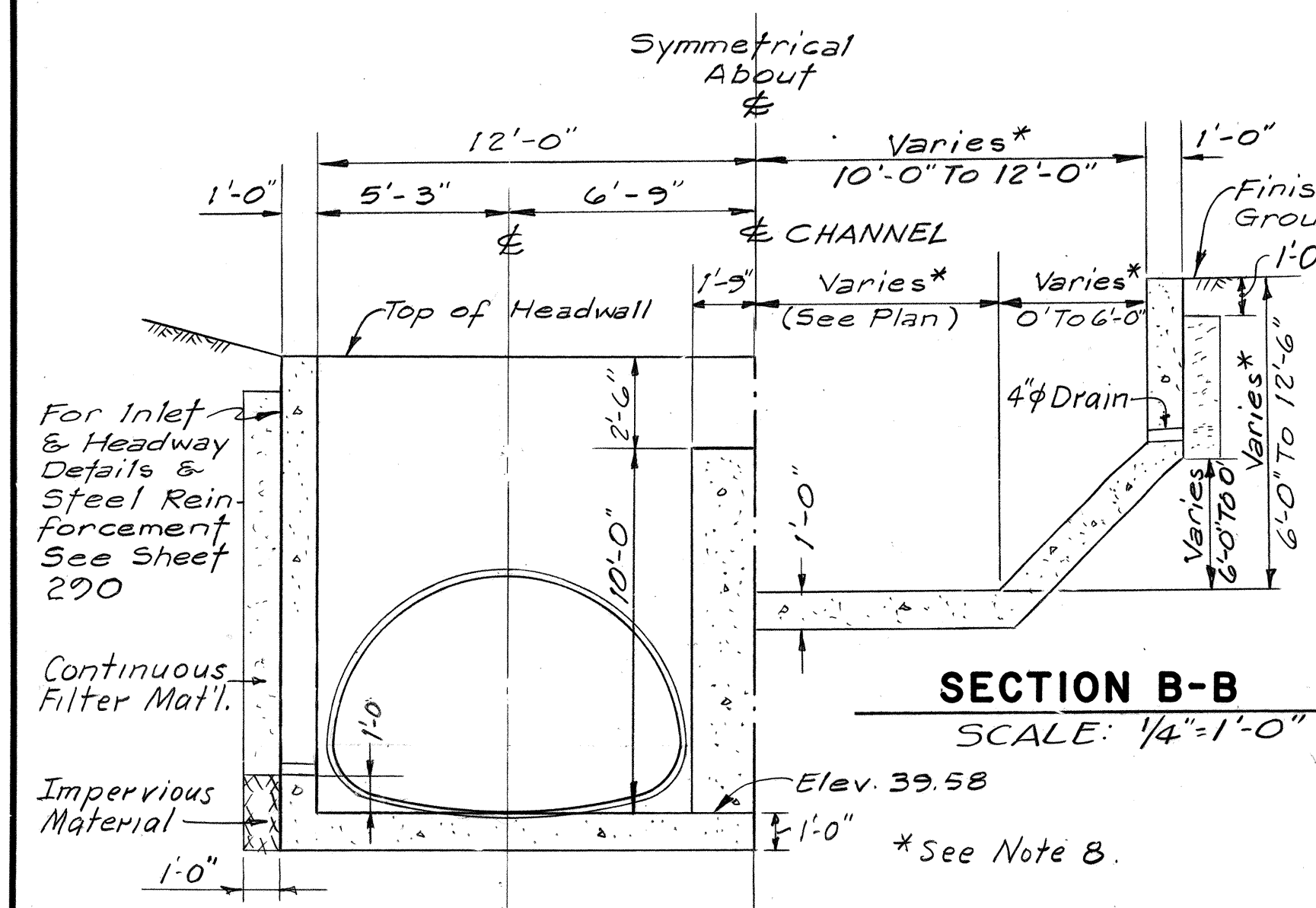


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Martin Rubin

GENERAL NOTES:

- Inlet Walls @ Sta. 9+76 & Rectangular Channel Walls Between Sta. 10+82 to 12+04 & Between Sta. 14+32 to 15+93 & 16+80 to 18+12 Are To Have 4" Drains @ 10' Max. Spacing In Stems And Bottom Slab.
- For Estimated Quantities See Sheet 288
- The Lateral Limits For Payment Of Structural Excavation For Channel Structure & Box Culvert Shall Be The Vertical Surface One Foot Outside The Exterior Face Of Walls Unless Otherwise Shown On Plans.
- The Upper Limit For Payment Of Structure Excavation Shall Be The Lower Of:
 - Finished Ground Line or
 - Subgrade of Roadway
- The Lower Limit For Payment Of Structural Excavation Shall Be The Bottom Of The Completed Slab, Unless Otherwise Shown On Plans.
- For Finished Ground Line Elevations Behind Channel Walls See Grading & Drainage Plans.
- All Concrete Shall Be Class A.
- New Channel Alignment is to Conform To Meet Existing Channel.

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CREATED BY	



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HALAWA HEIGHTS STREAM
STRUCTURE
PLAN, PROFILE & SECTIONS
INTERSTATE ROUTE H-1
PROJECT NO. I-HI-1(88):13

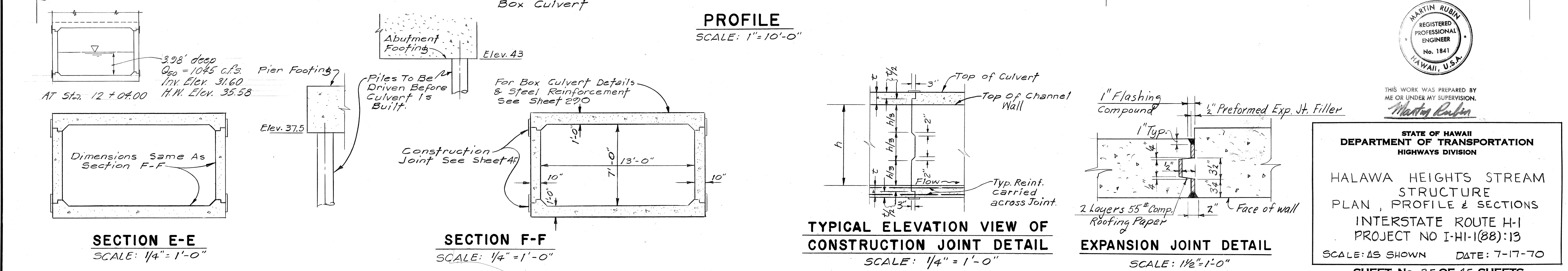
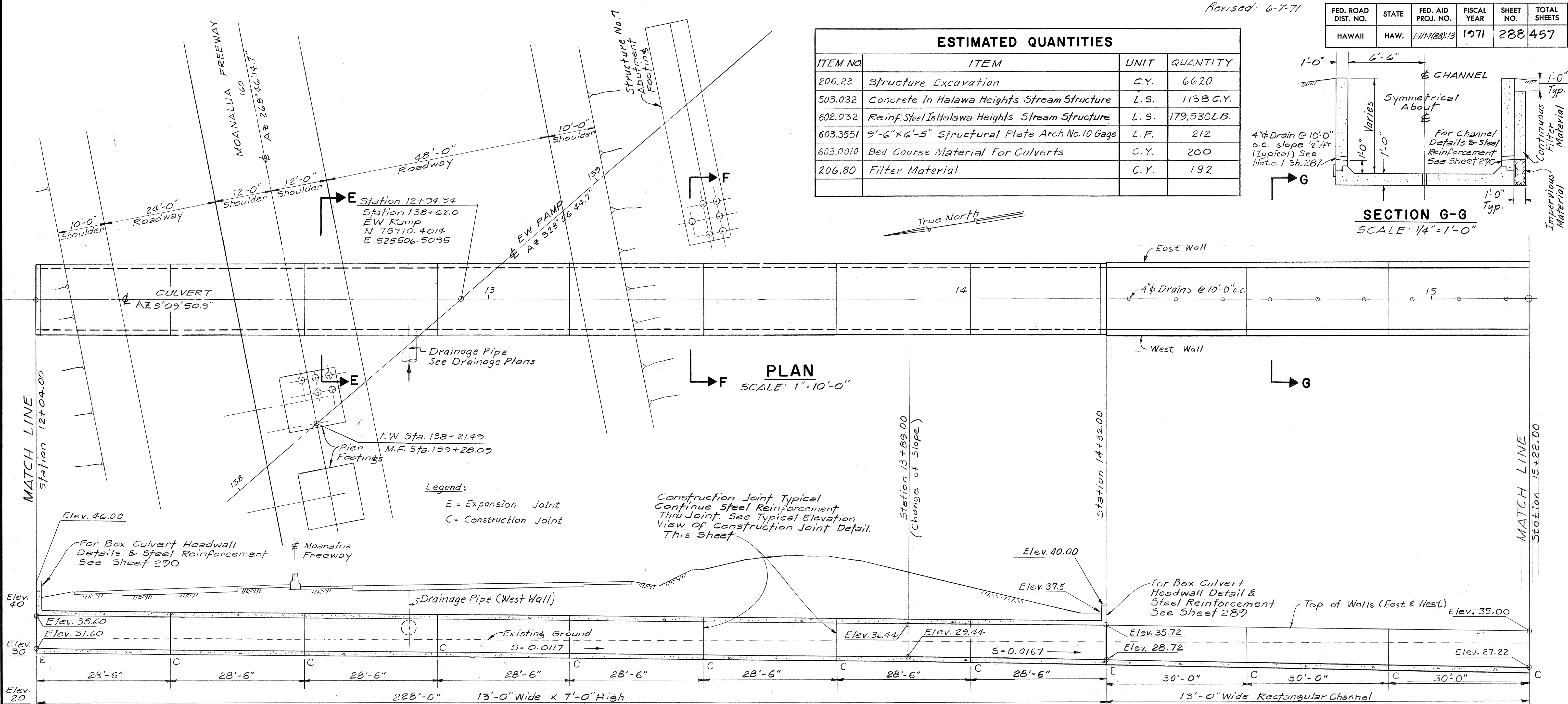
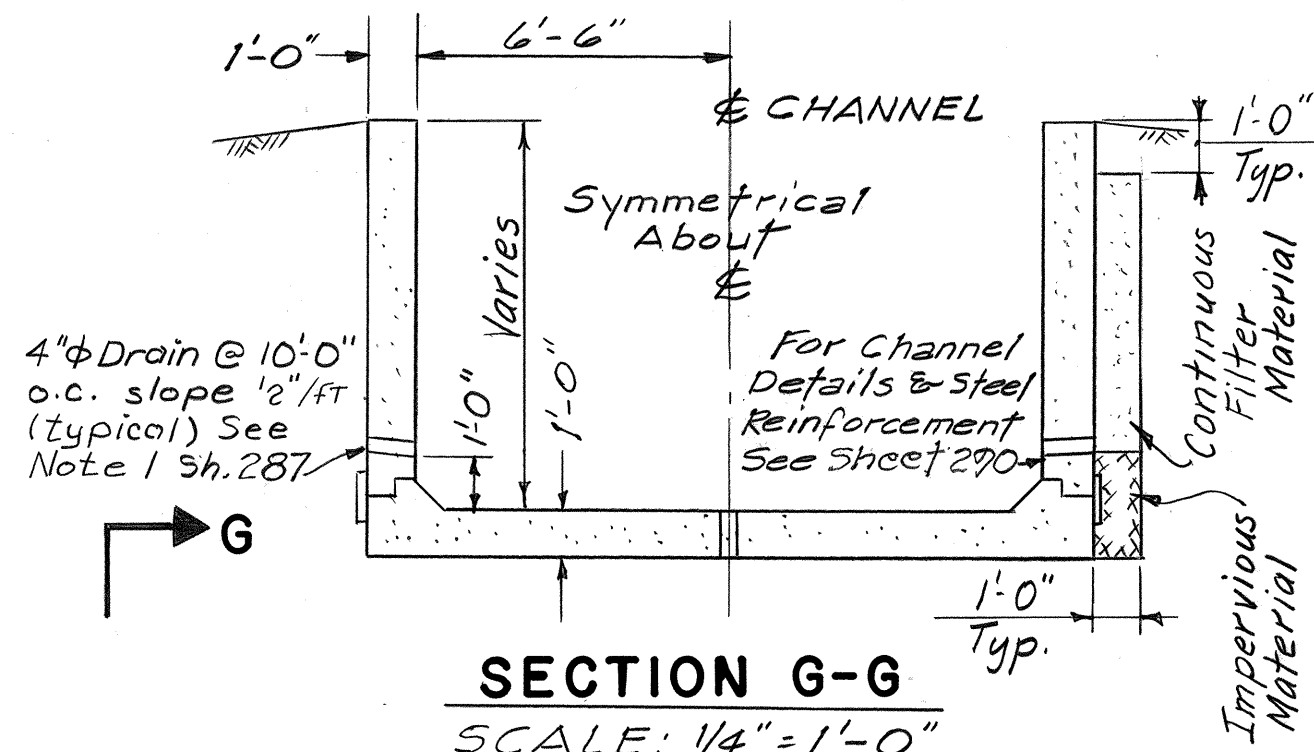
SCALE: AS SHOWN DATE: 7-17-70

SHEET No. 1F OF 4F SHEETS

Revised: 6-7-71

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-41(188)13	1971	288	457

ESTIMATED QUANTITIES			
ITEM NO.	ITEM	UNIT	QUANTITY
206.22	Structure Excavation	C.Y.	6620
503.032	Concrete In Halawa Heights Stream Structure	L.S.	1138 C.Y.
602.032	Reinf. Steel In Halawa Heights Stream Structure	L.S.	179,530 L.B.
603.3551	3'-6" x 6'-5" Structural Plate Arch No. 10 Gage	L.F.	212
603.0010	Bed Course Material For Culverts.	C.Y.	200
206.80	Filter Material	C.Y.	192

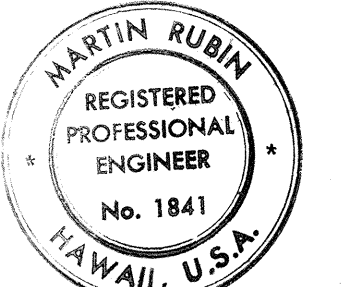


SECTION E-E
SCALE: 1/4" = 1'-0"

SECTION F-F
SCALE: 1/4" = 1'-0"

TYPICAL ELEVATION VIEW OF CONSTRUCTION JOINT DETAIL
SCALE: 1/4" = 1'-0"

EXPANSION JOINT DETAIL
SCALE: 1 1/2" = 1'-0"

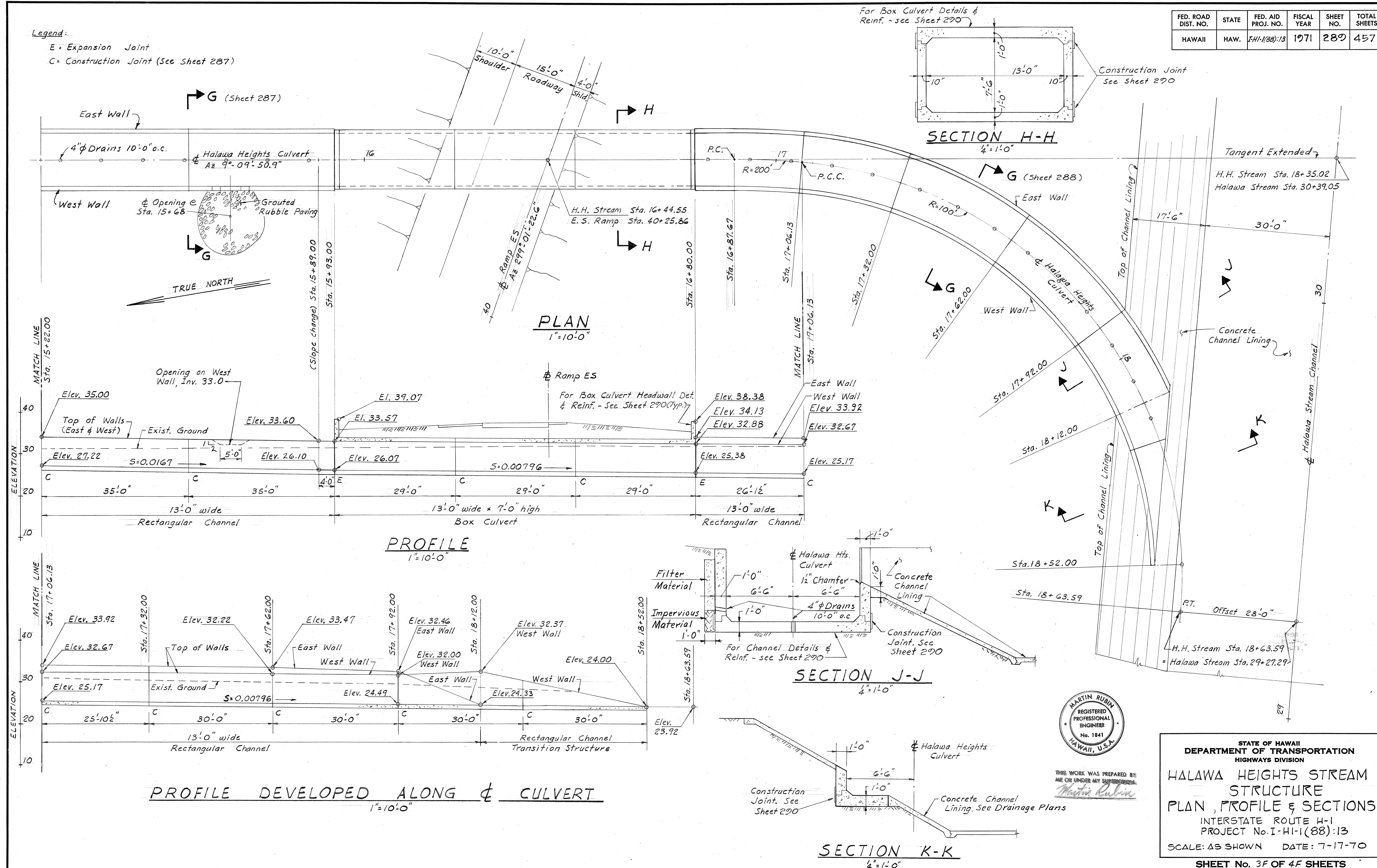


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

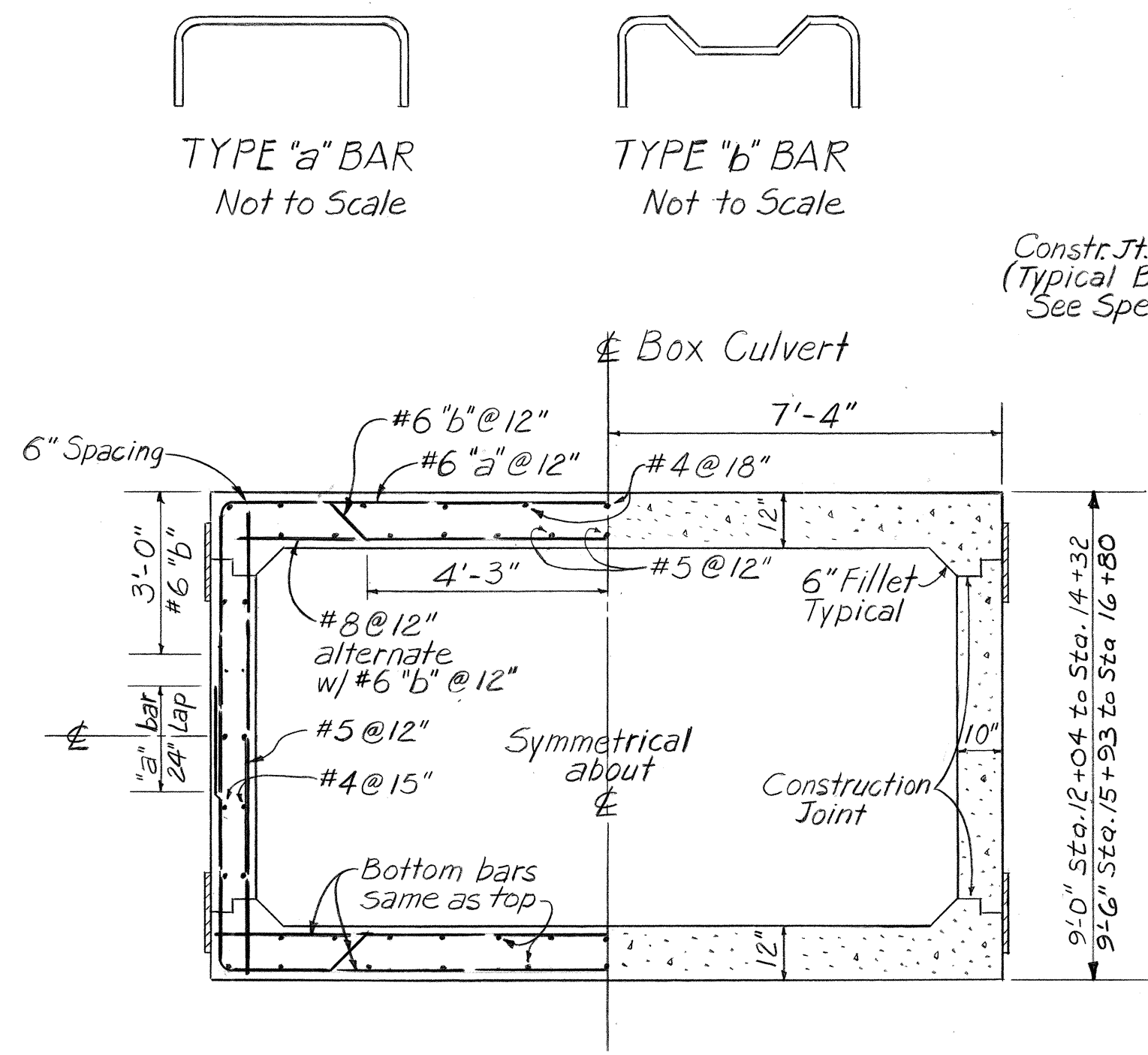
HALAWA HEIGHTS STREAM
STRUCTURE
PLAN, PROFILE & SECTIONS
INTERSTATE ROUTE H-1
PROJECT NO I-HI-1(88)13
SCALE: AS SHOWN DATE: 7-17-70
SHEET No. 2F OF 4F SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HA-1(88)13	1971	289	457

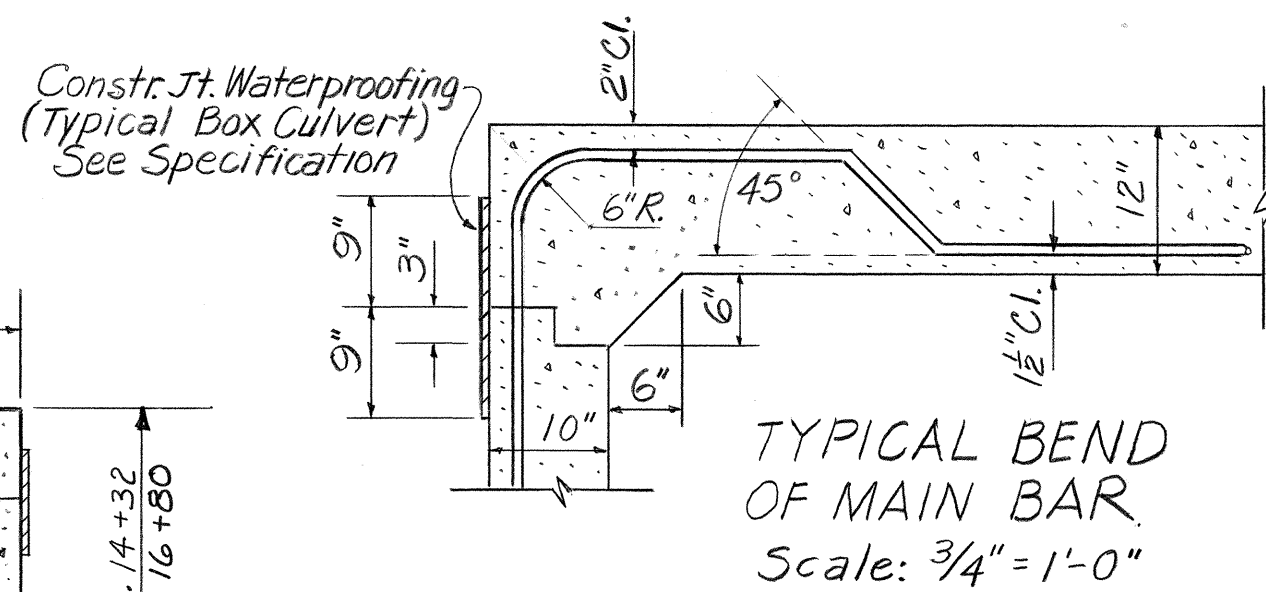
Legend:
E = Expansion Joint
C = Construction Joint (See Sheet 287)



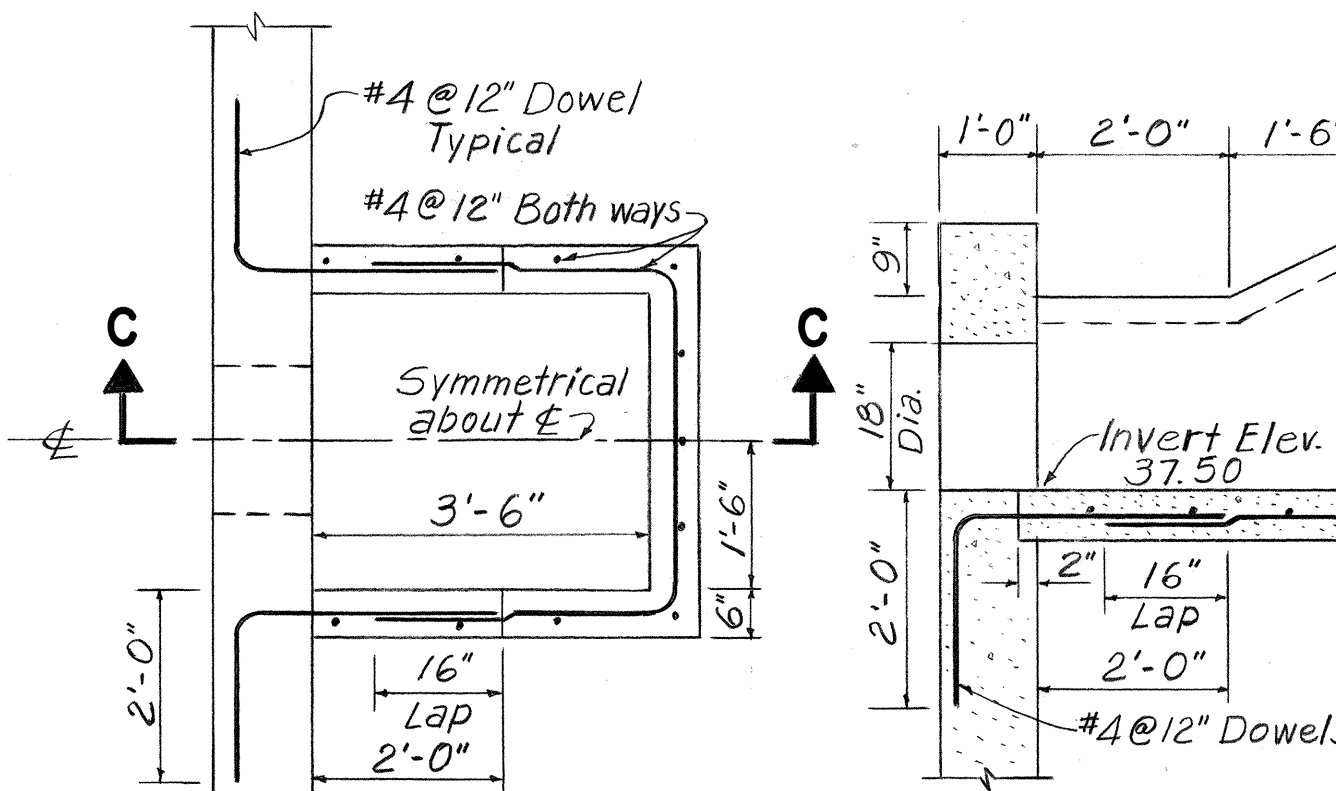
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-41-1(88)13	1971	290	457



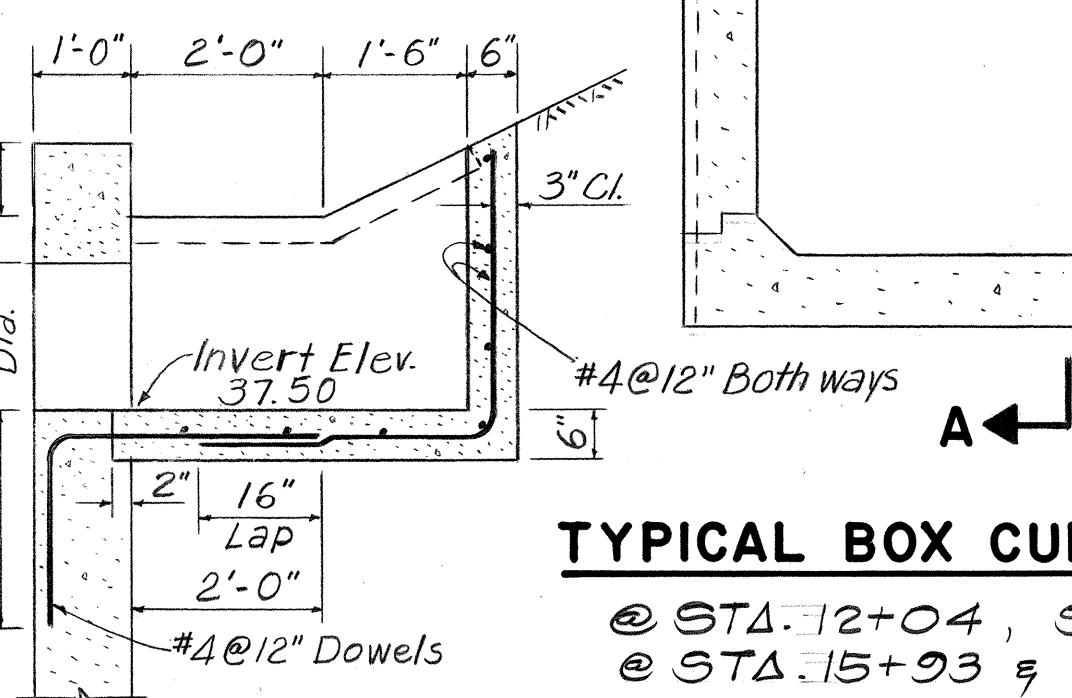
TYPICAL SECTION BOX CULVERT



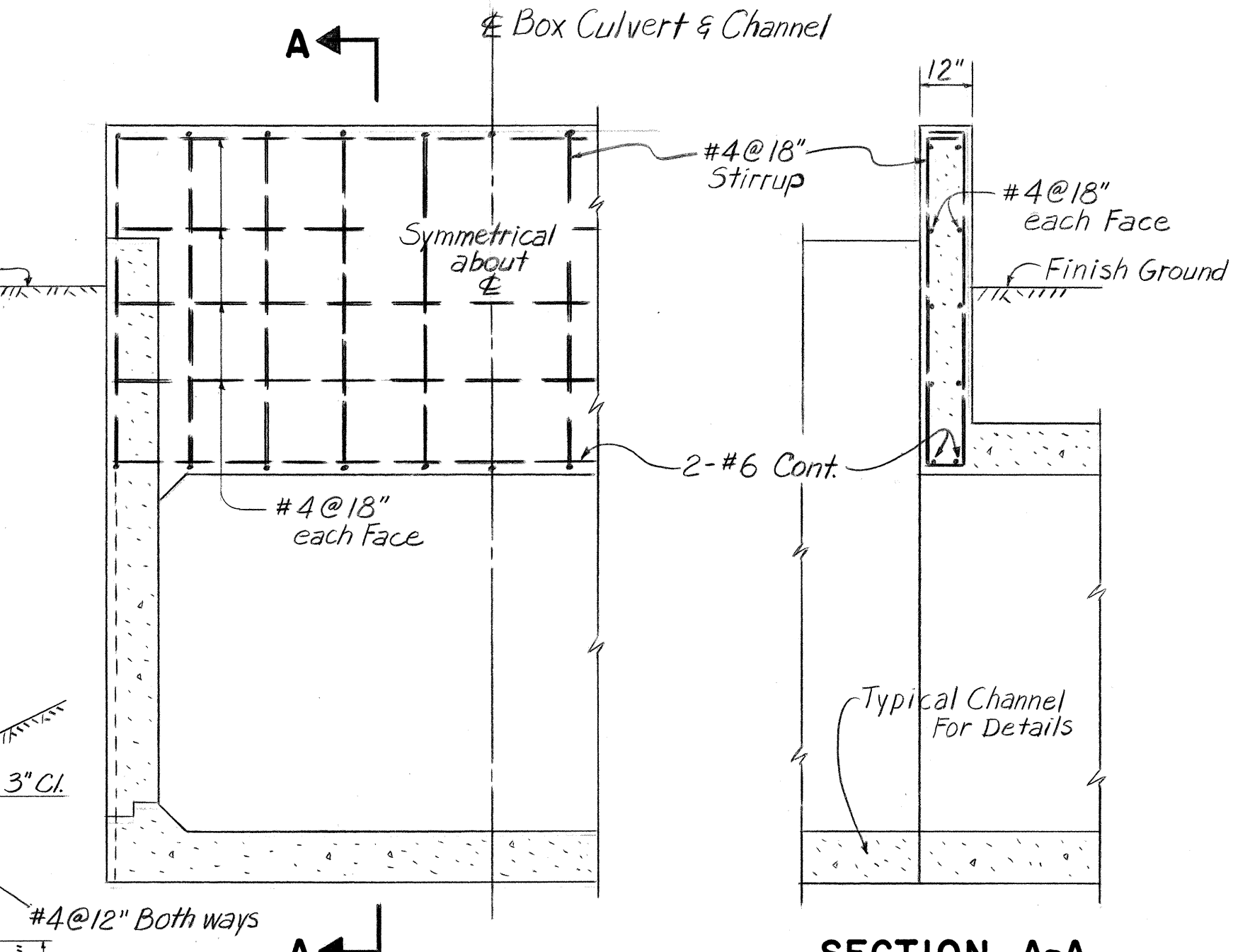
TYPICAL BEND OF MAIN BAR
Scale: 3/4" = 1'-0"



PLAN CATCH BASIN
Scale: 1/2" = 1'-0"

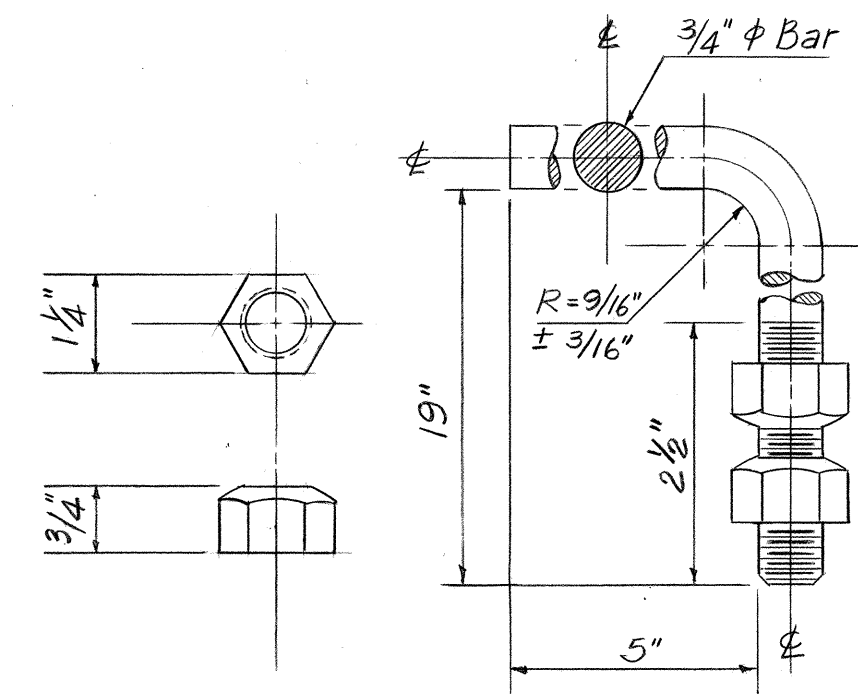


SECTION C-C
Scale: 1/2" = 1'-0"

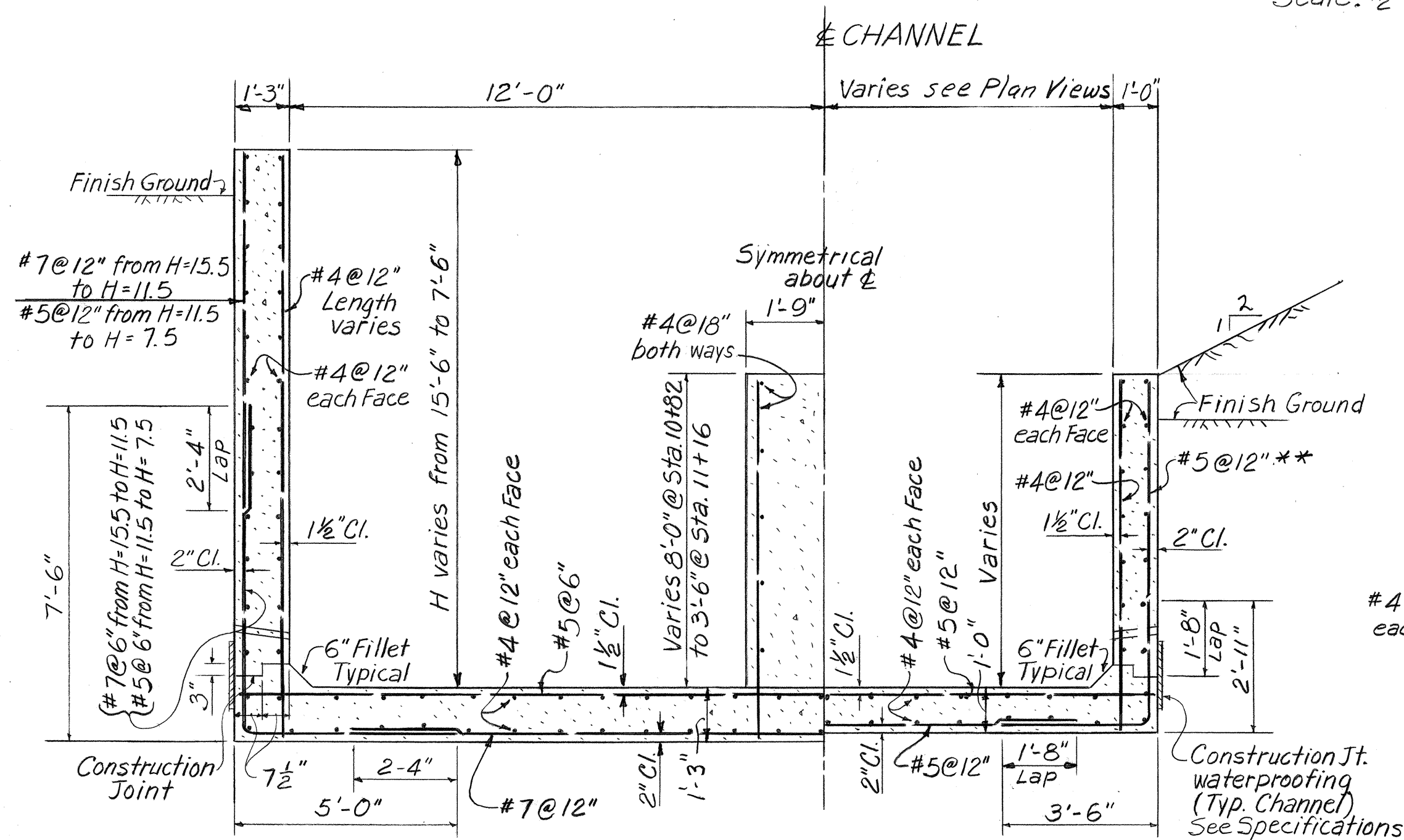


TYPICAL BOX CULVERT HEADWALL

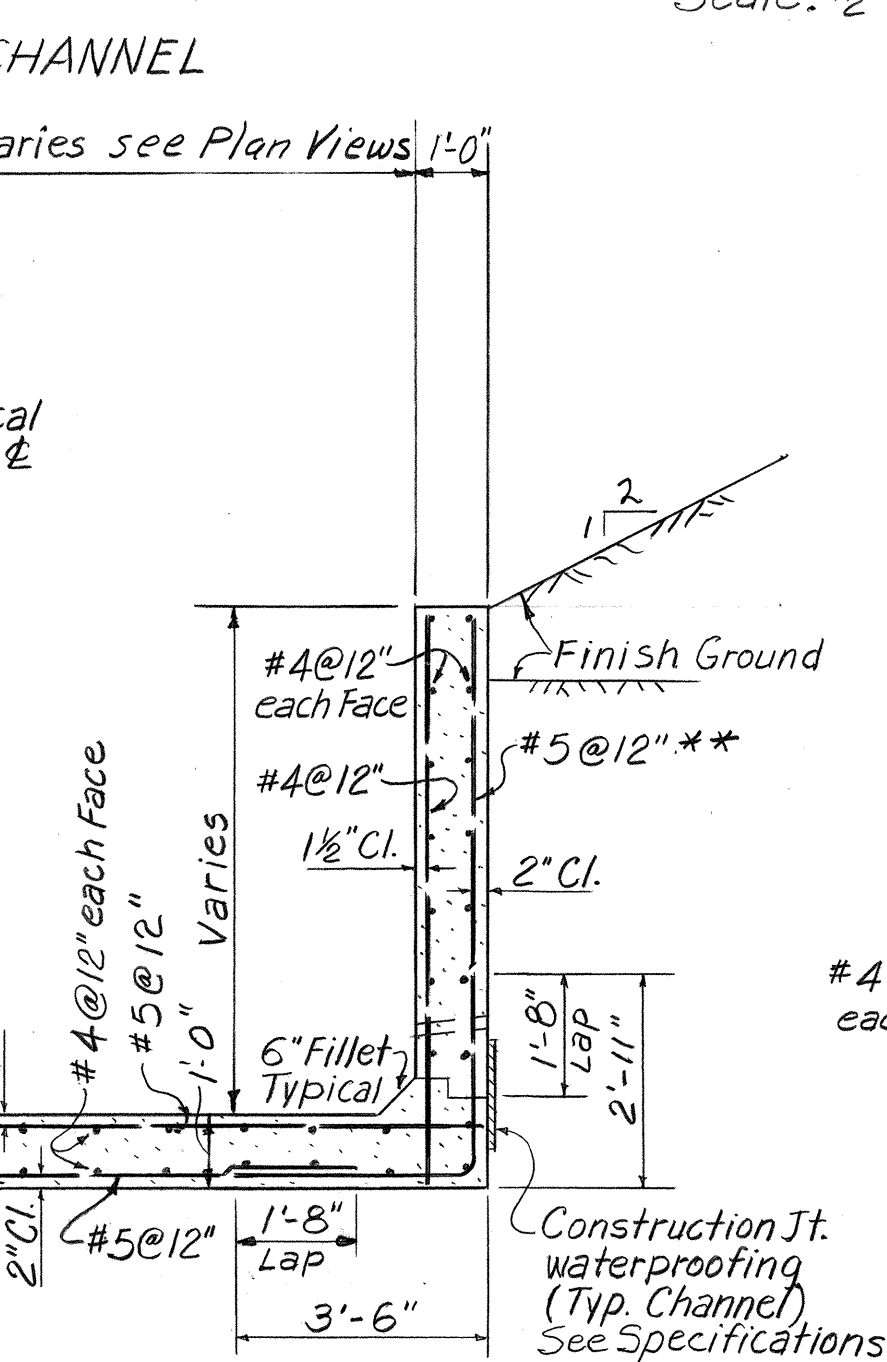
@ STA. 12+04, STA. 14+32
@ STA. 15+93 & STA. 16+80



HOOK BOLT DETAIL
Not to Scale

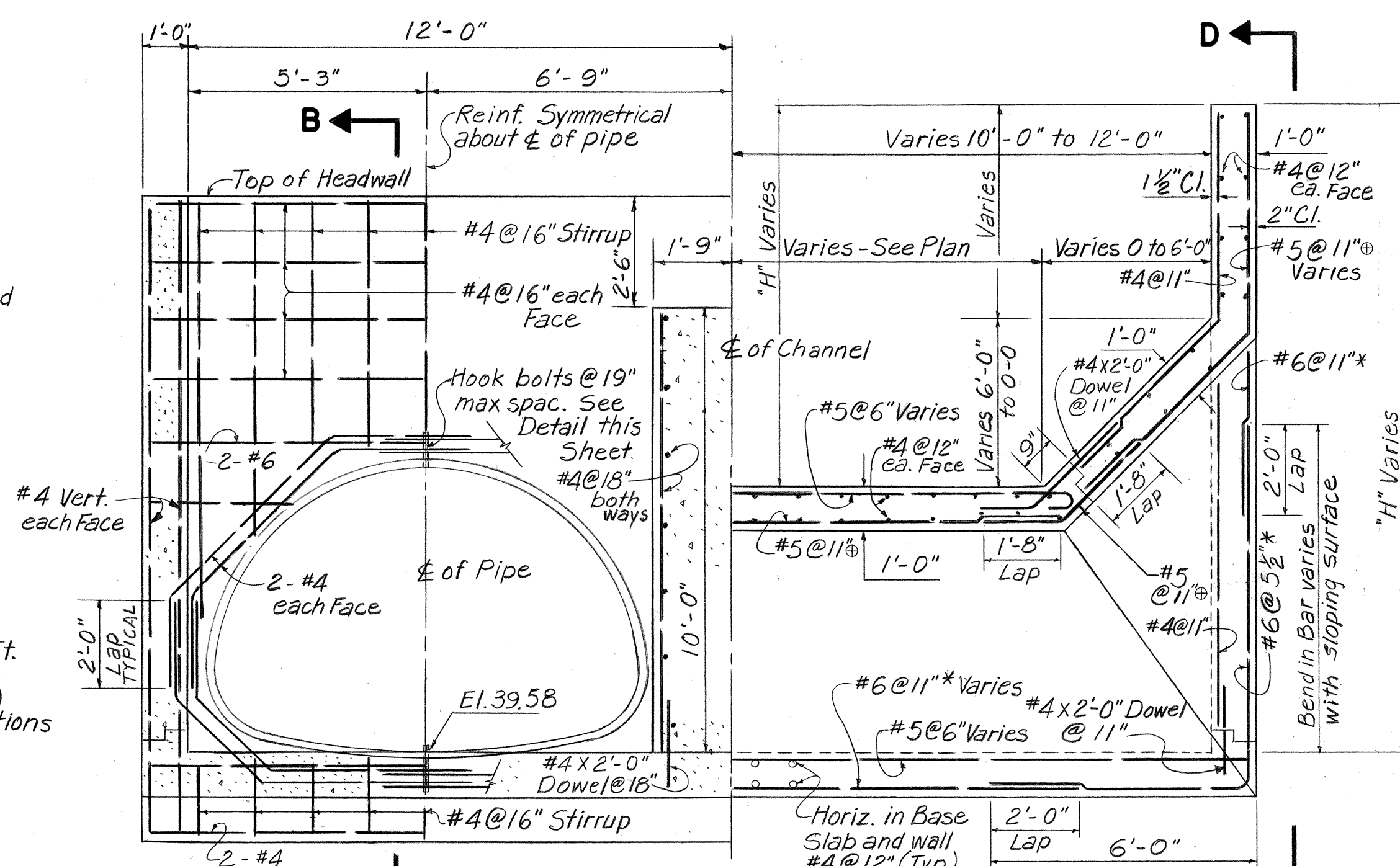


TYPICAL CHANNEL
STA. 10+82 TO STA. 11+16

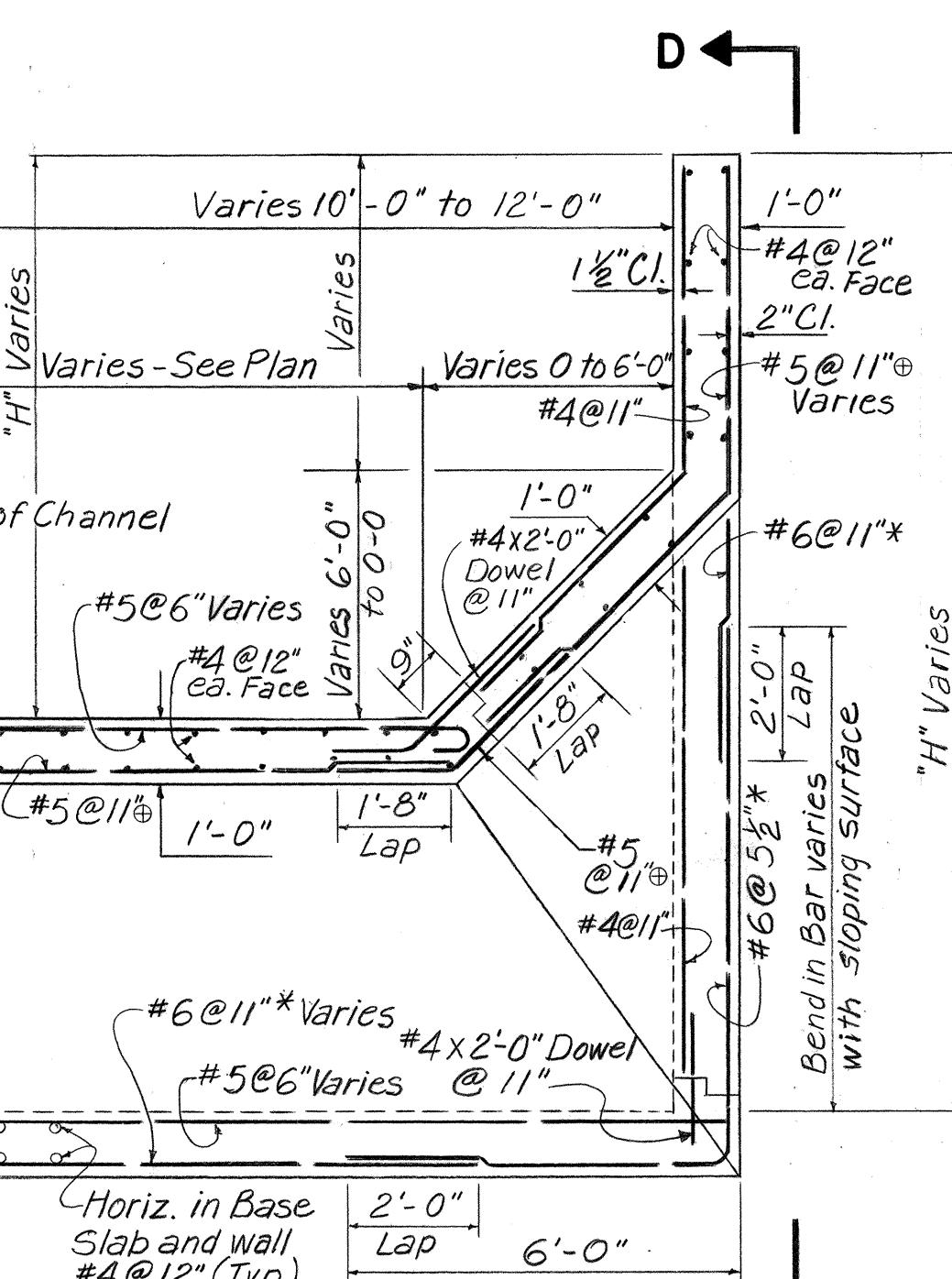


TYPICAL CHANNEL
STA. 11+16 TO STA. 12+04
STA. 14+32 TO STA. 15+93
STA. 16+80 TO STA. 17+92
CHANNEL TRANSITION
STRUCTURE STA. 17+92
TO STA. 18+52.00.

** The #5@12 bent in Channel Transition Structure Sta. 17+92 to 18+52.00 varies to fit top slope of wall & width of channel.

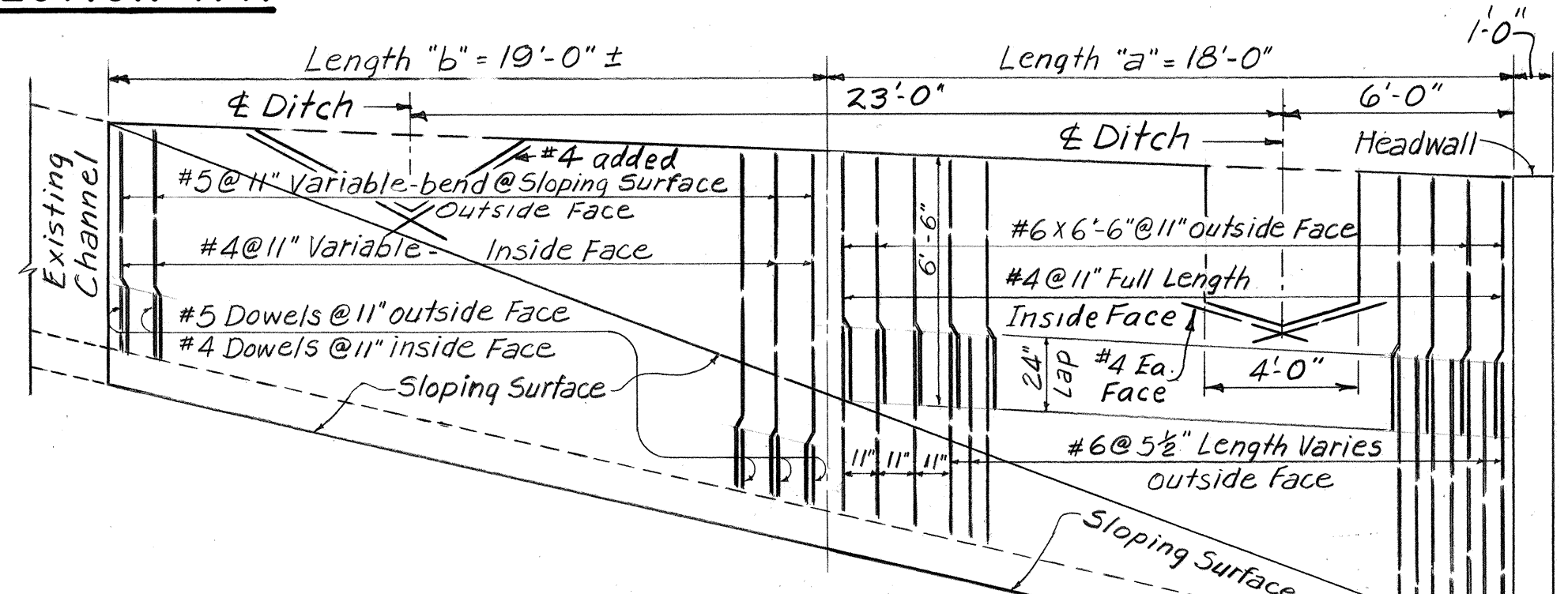


TYPICAL HEADWALL
STA. 9+76 & STA. 10+82



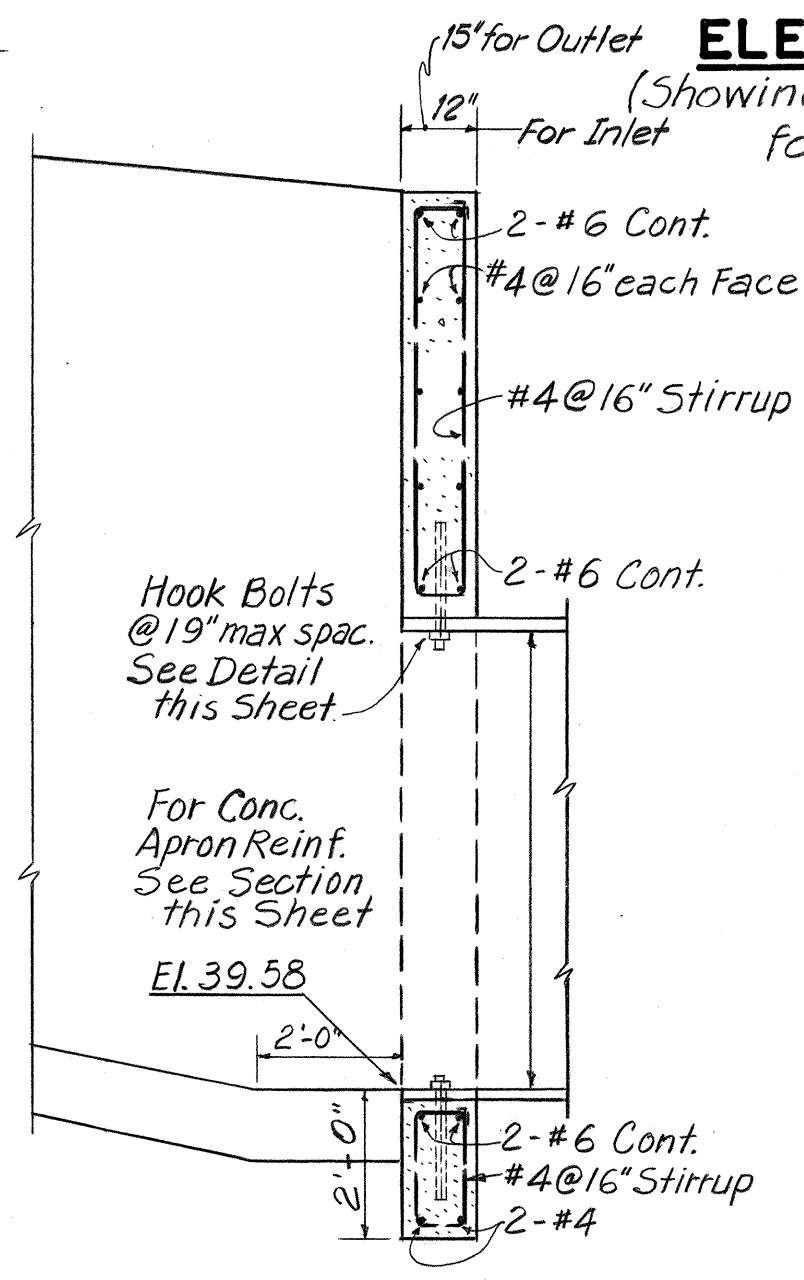
TYPICAL INLET SECTION

@ STA. 9+76
* Reinf. bars in Length "a" only
* Reinf. bars in Length "b" only
See Elev. D-D this Sheet

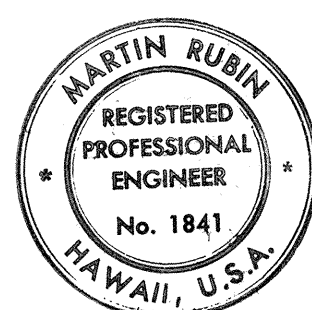


ELEVATION D-D
(Showing Reinforcement Pattern for Inlet Wall)
Scale: 1/4" = 1'-0"

Note Notches for ditches are in the West Wall. For additional details see Drainage Plans.



SECTION B-B



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HALAWA HEIGHTS STREAM
STRUCTURE SECTIONS

INTERSTATE ROUTE H-1
PROJECT No. I-HI-1(88)13

DATE: 7-17-70

Scale: 3/8" = 1'-0" Unless Noted

SHEET No. 4F OF 4F SHEETS

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