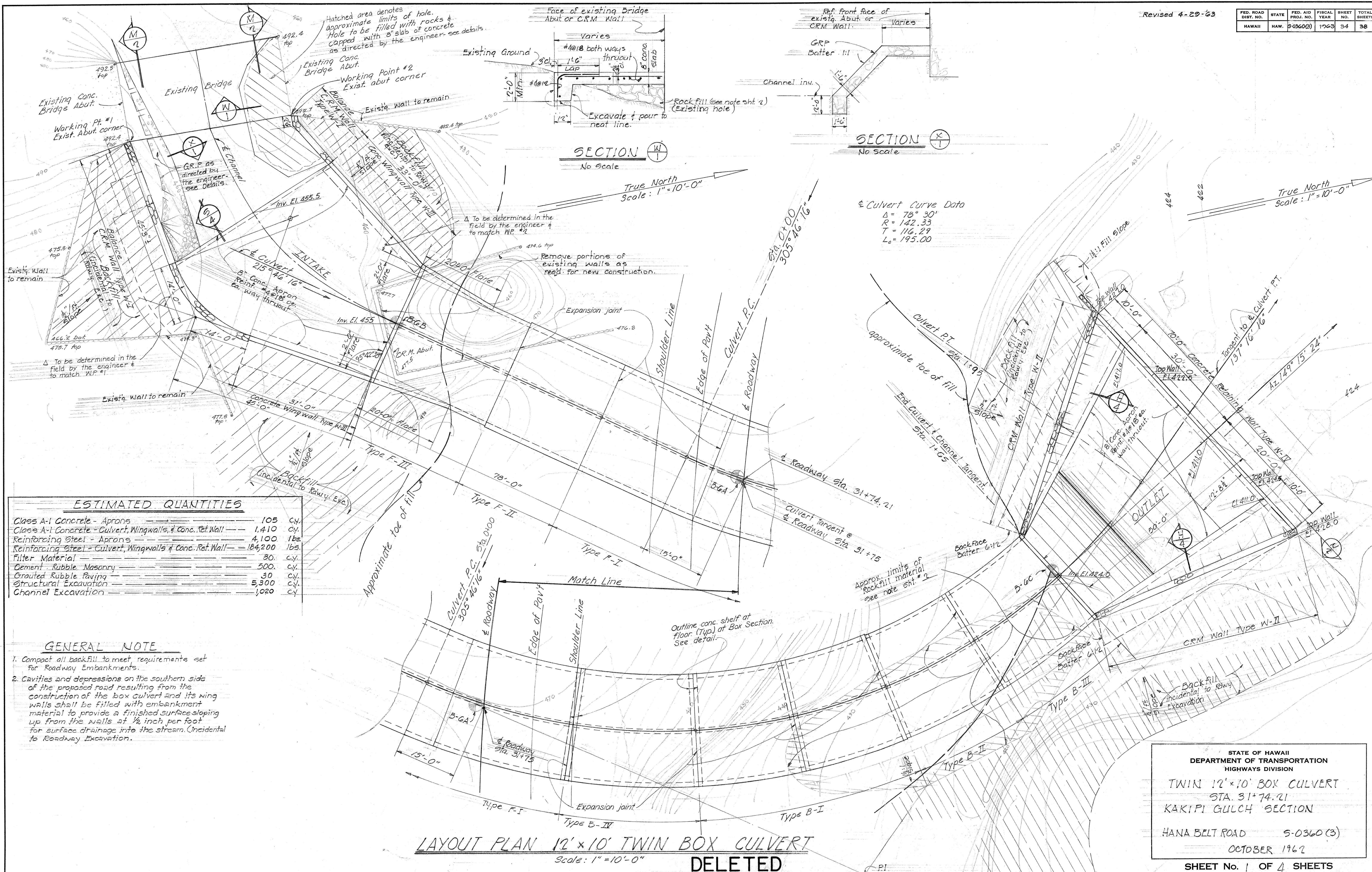
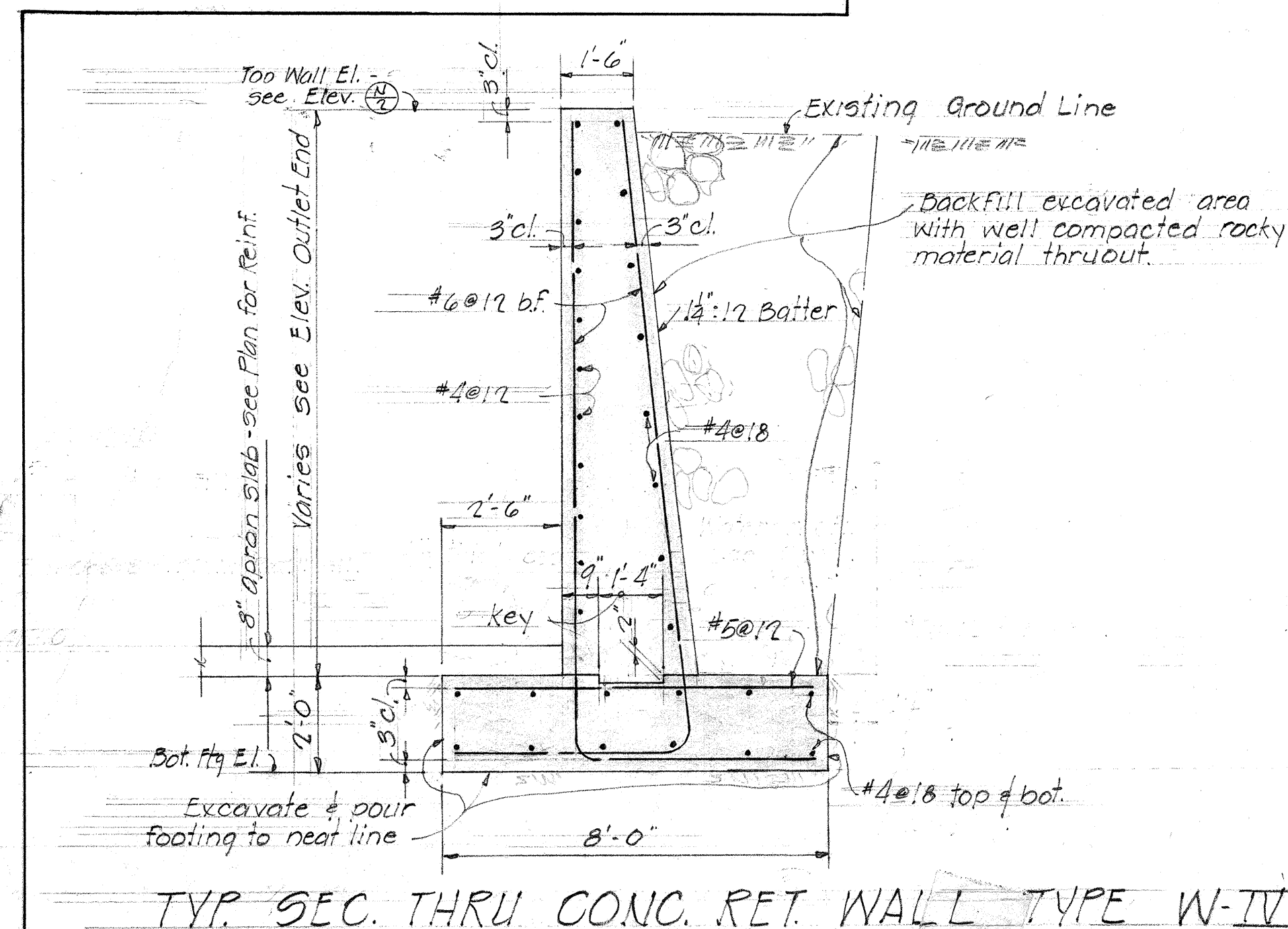
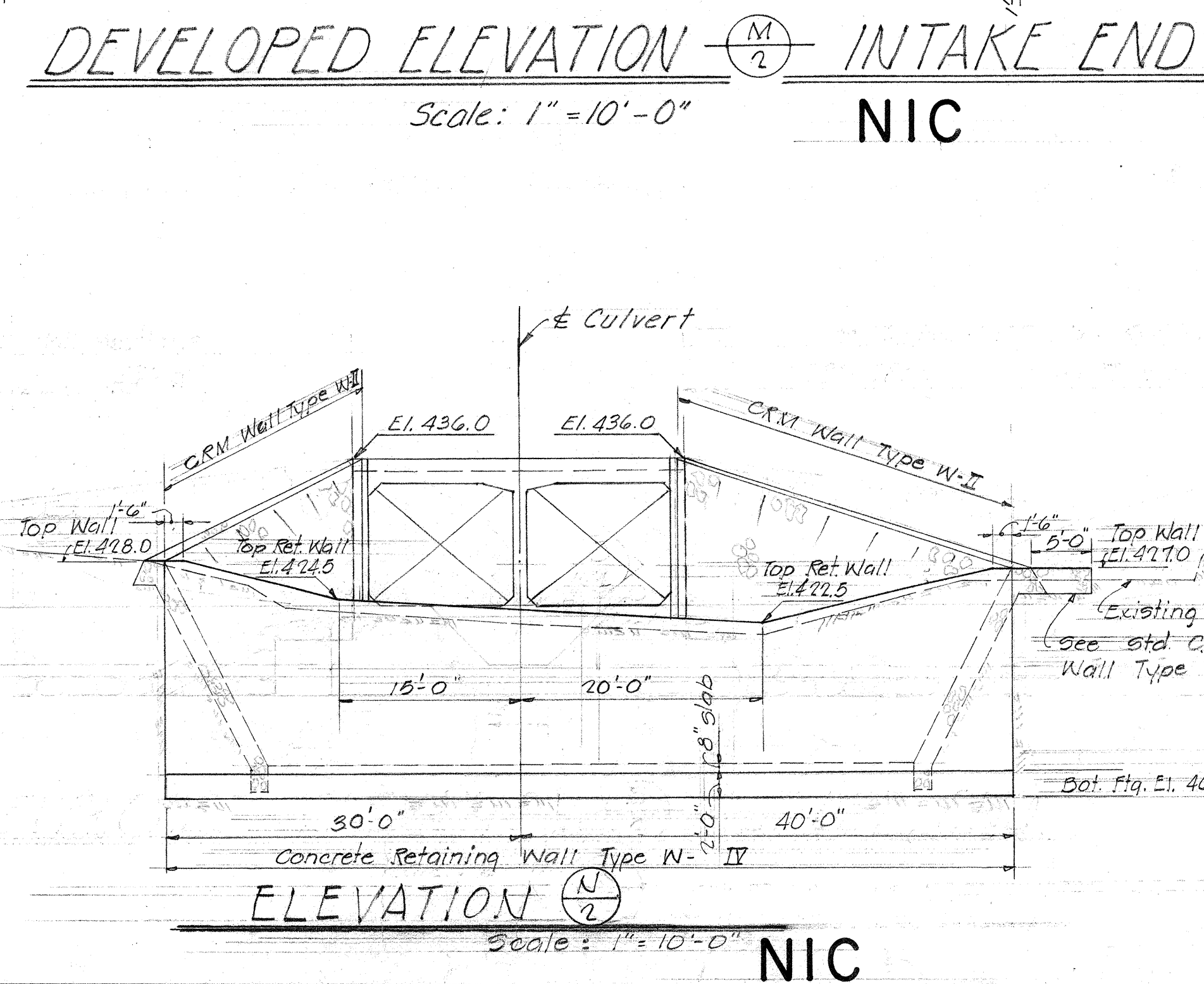
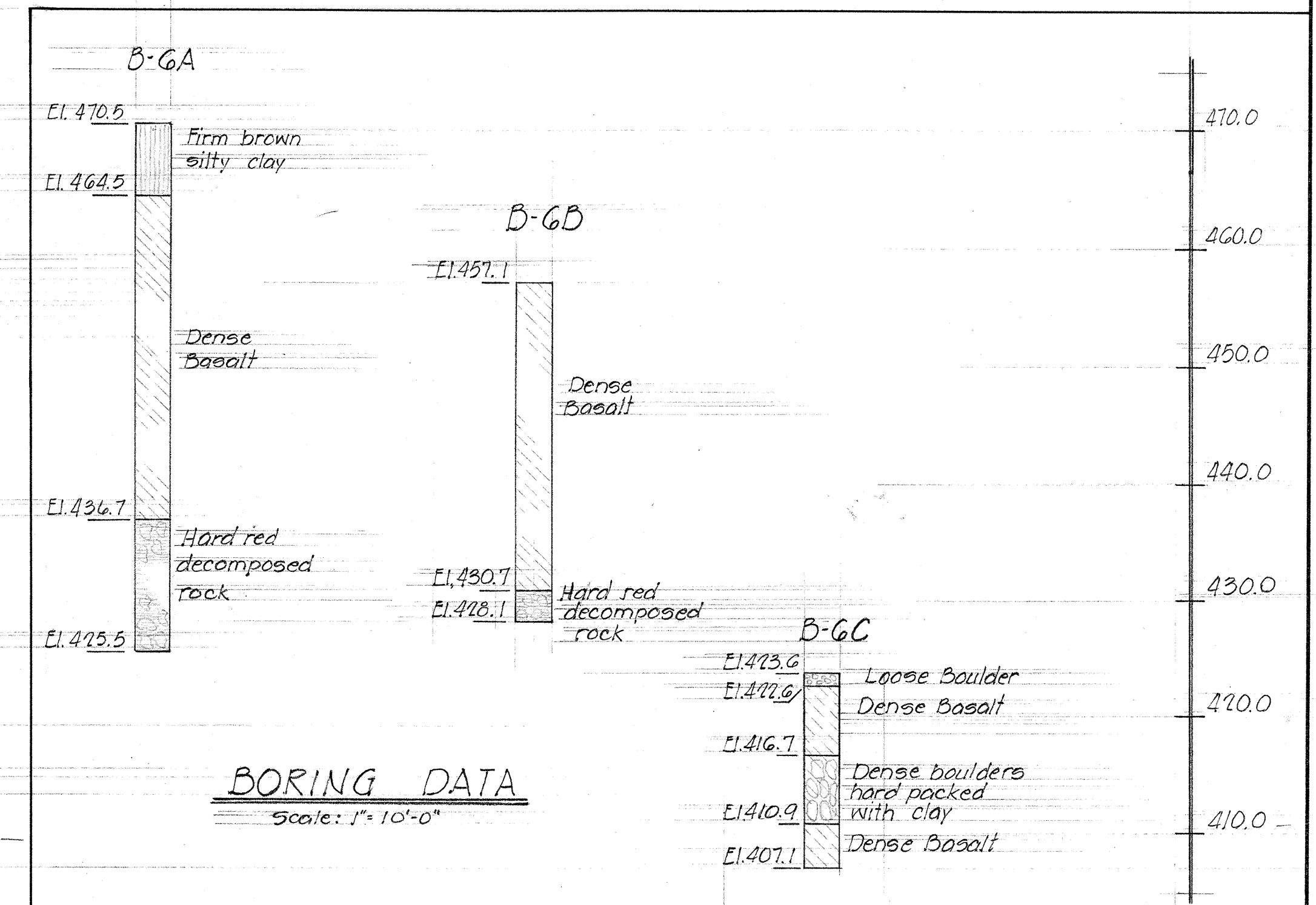
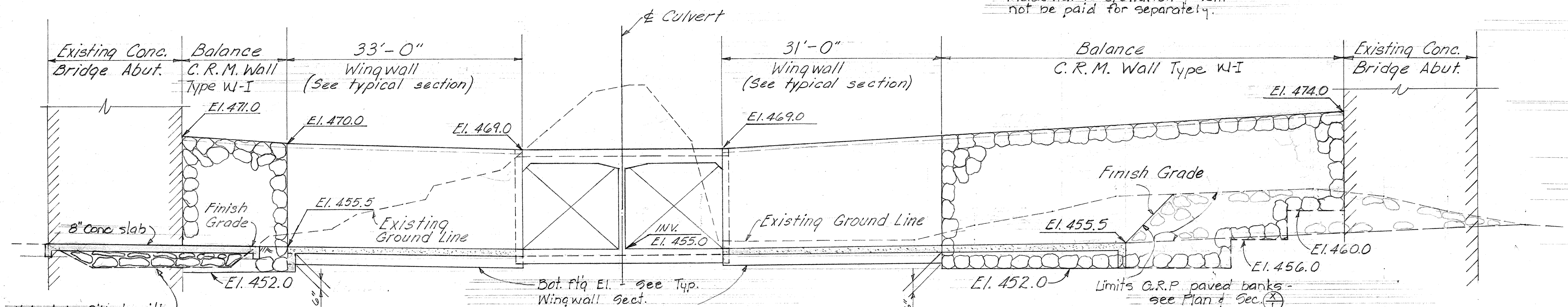
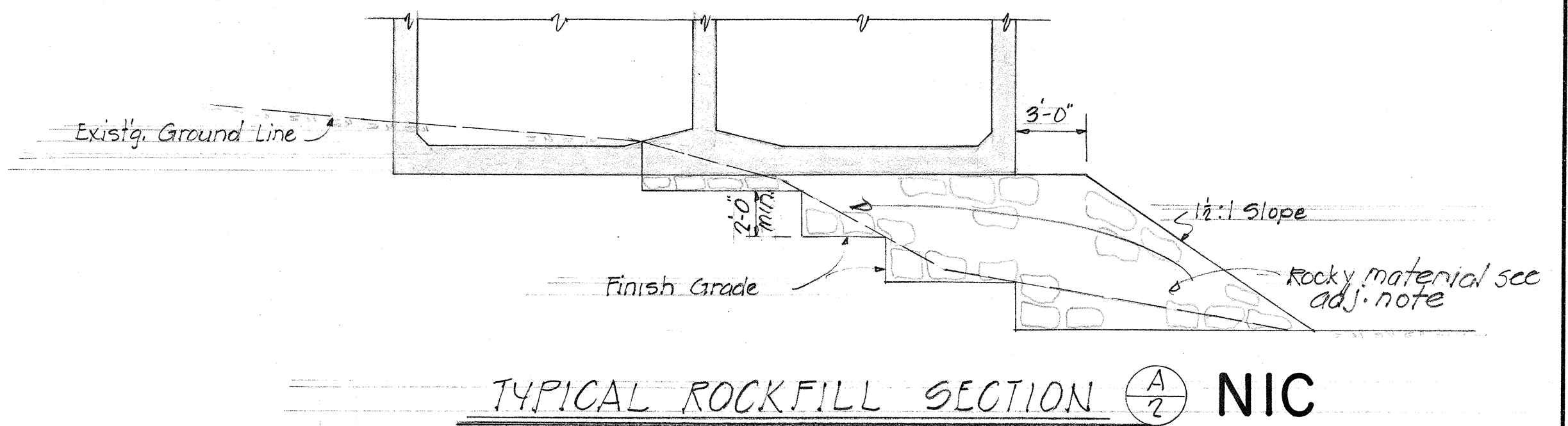
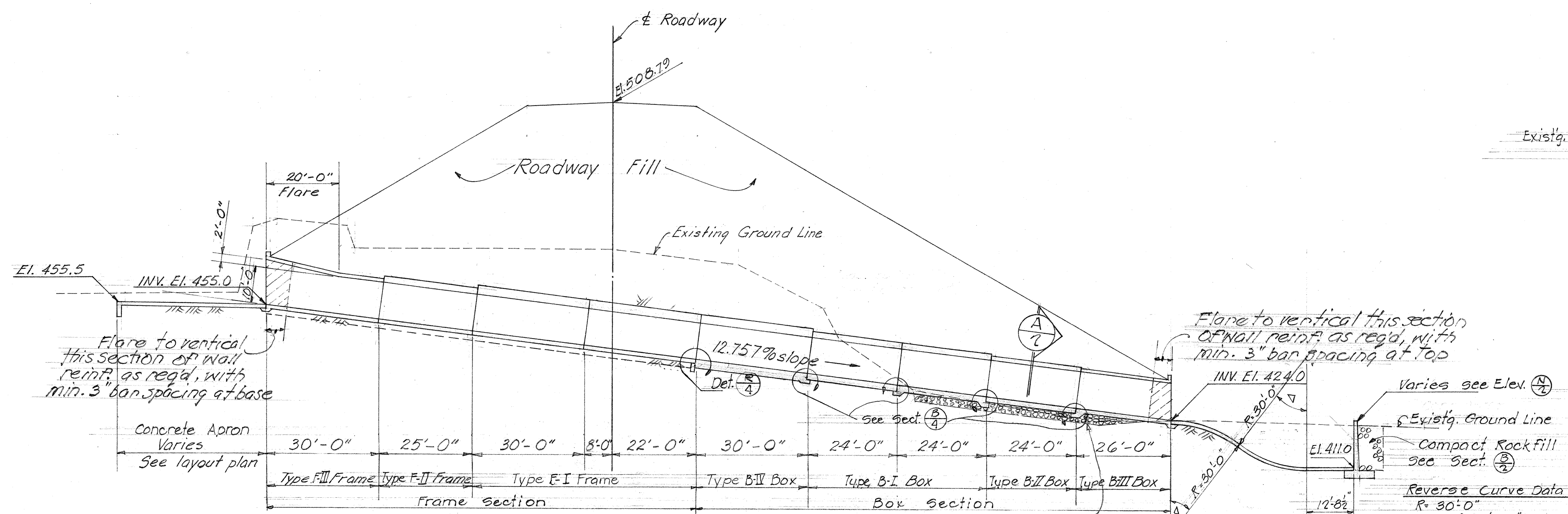
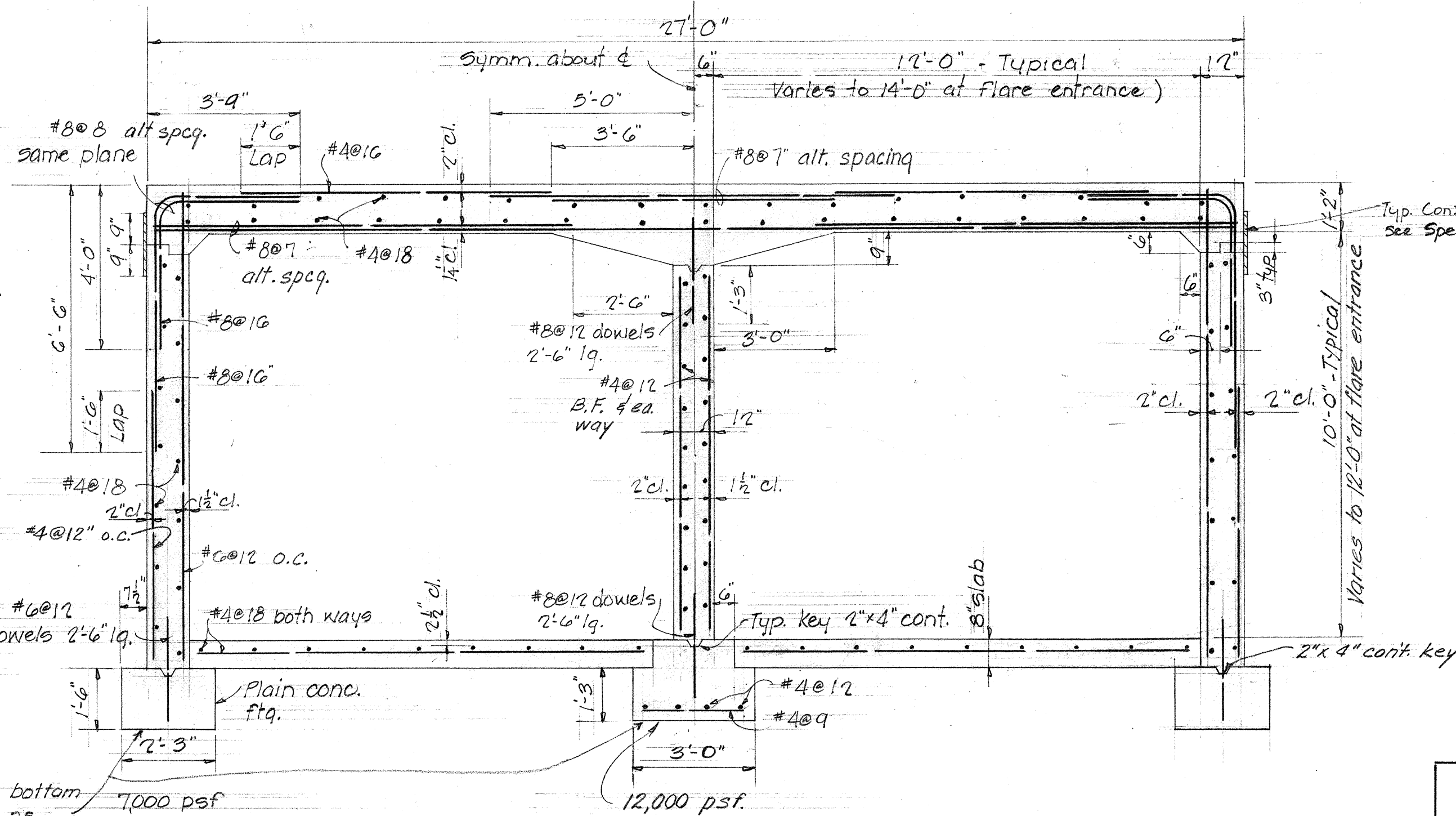
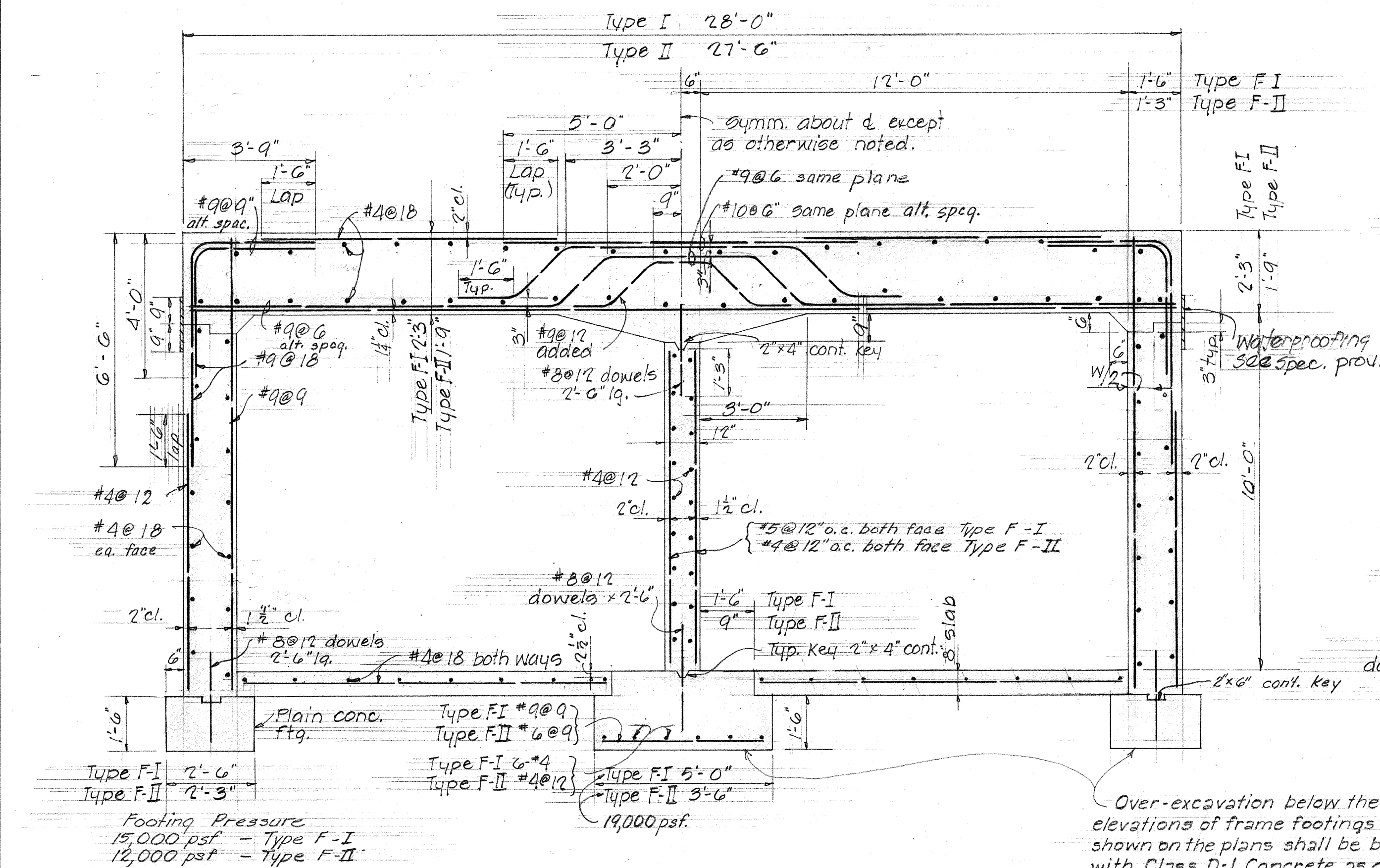
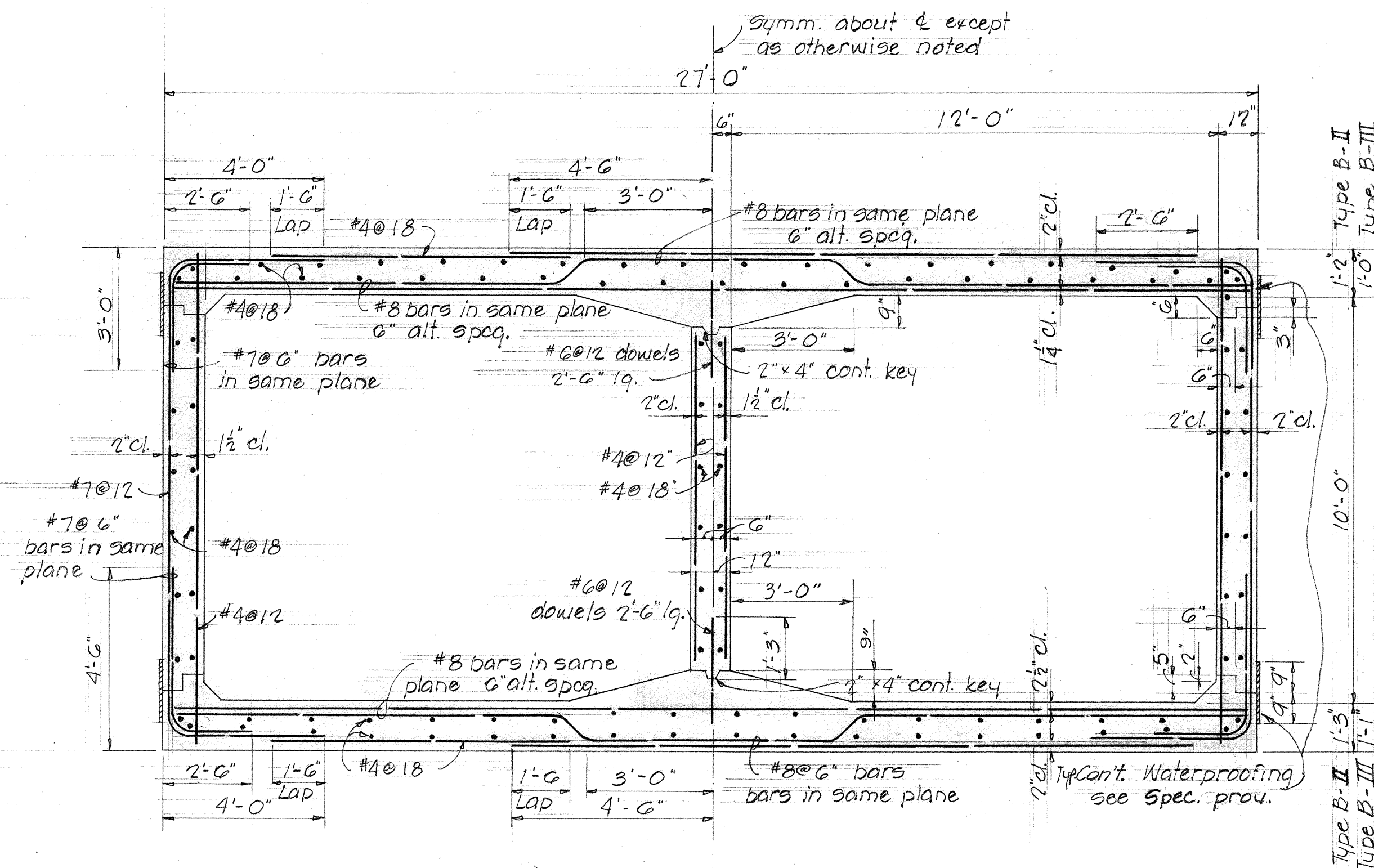
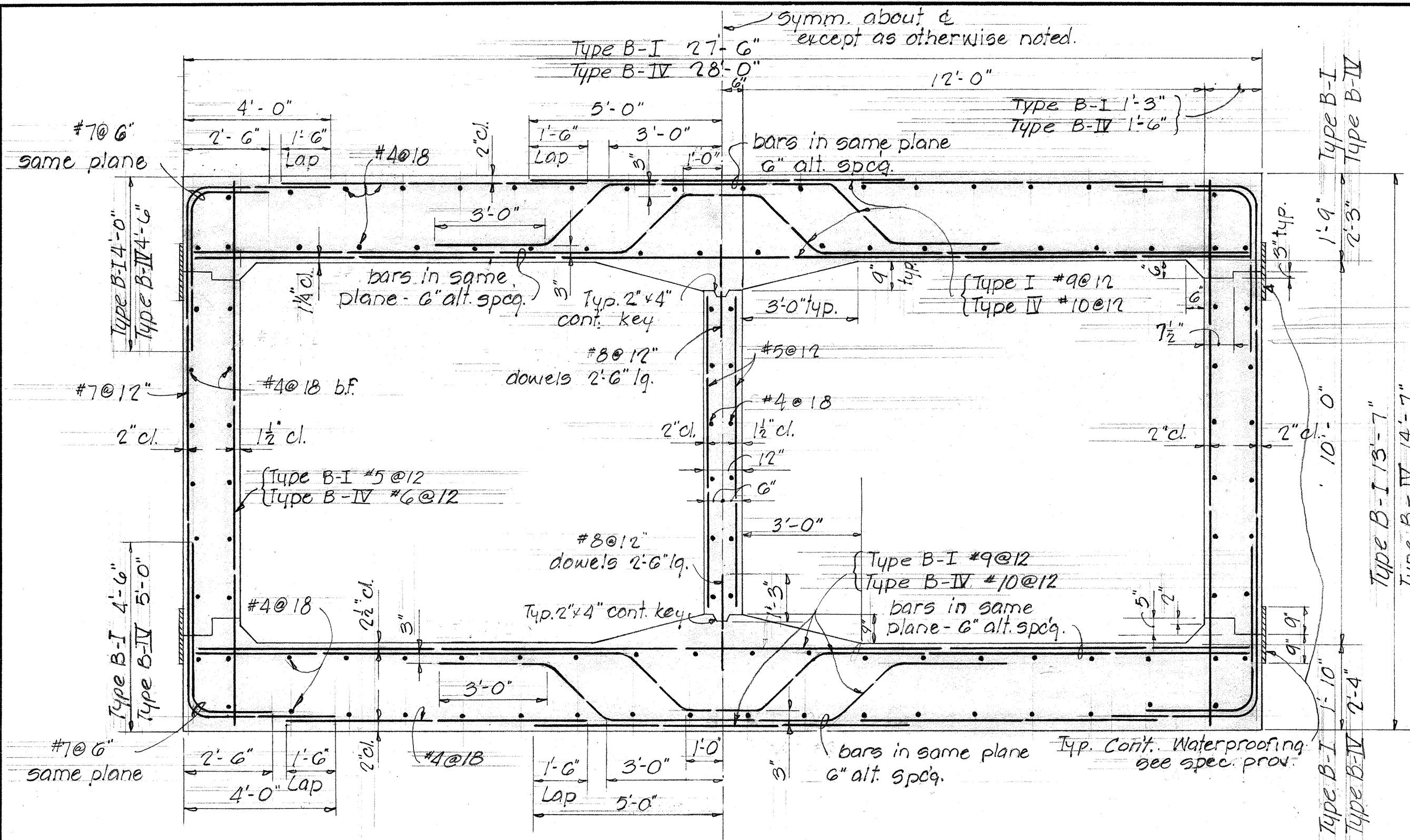


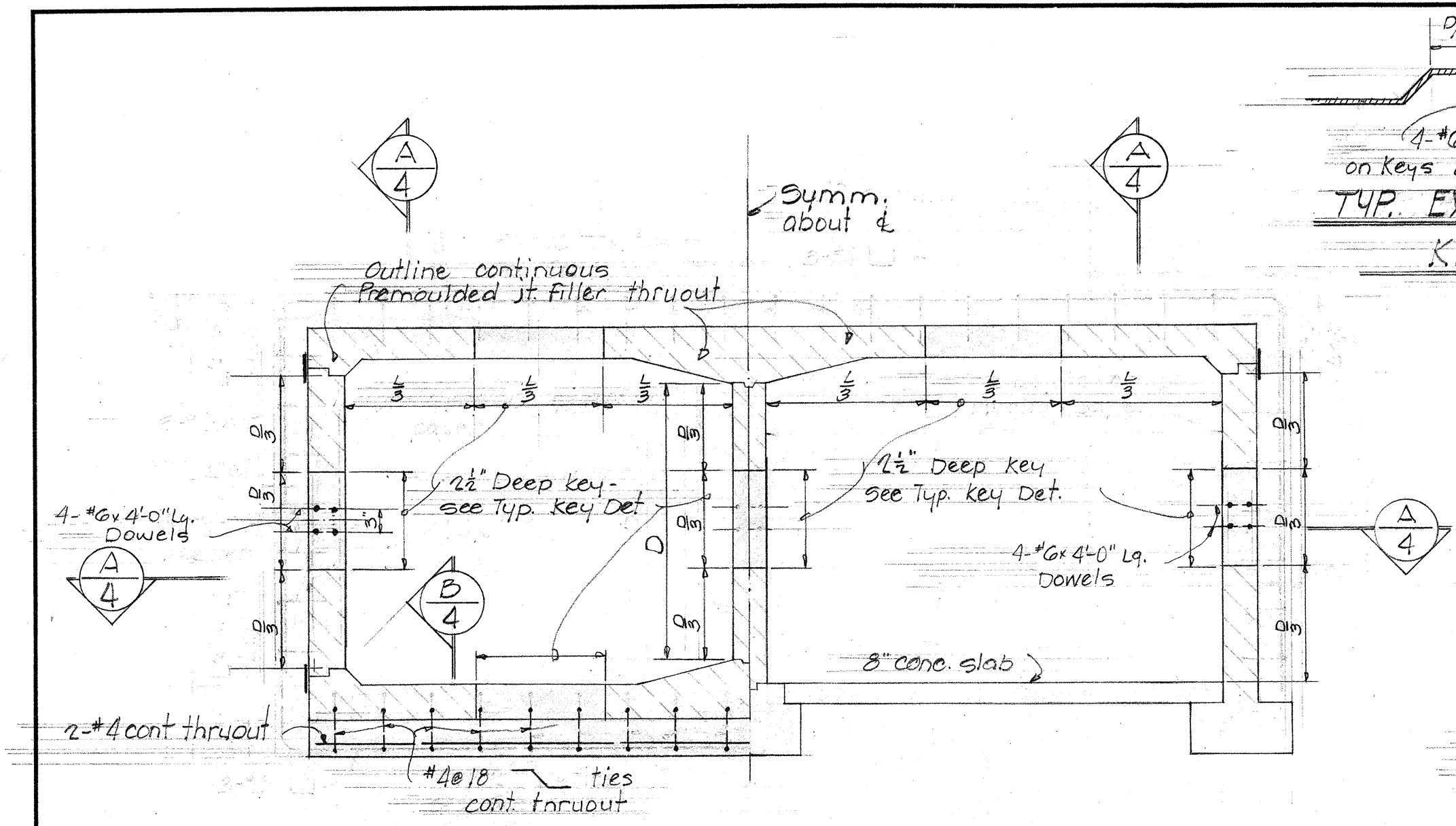




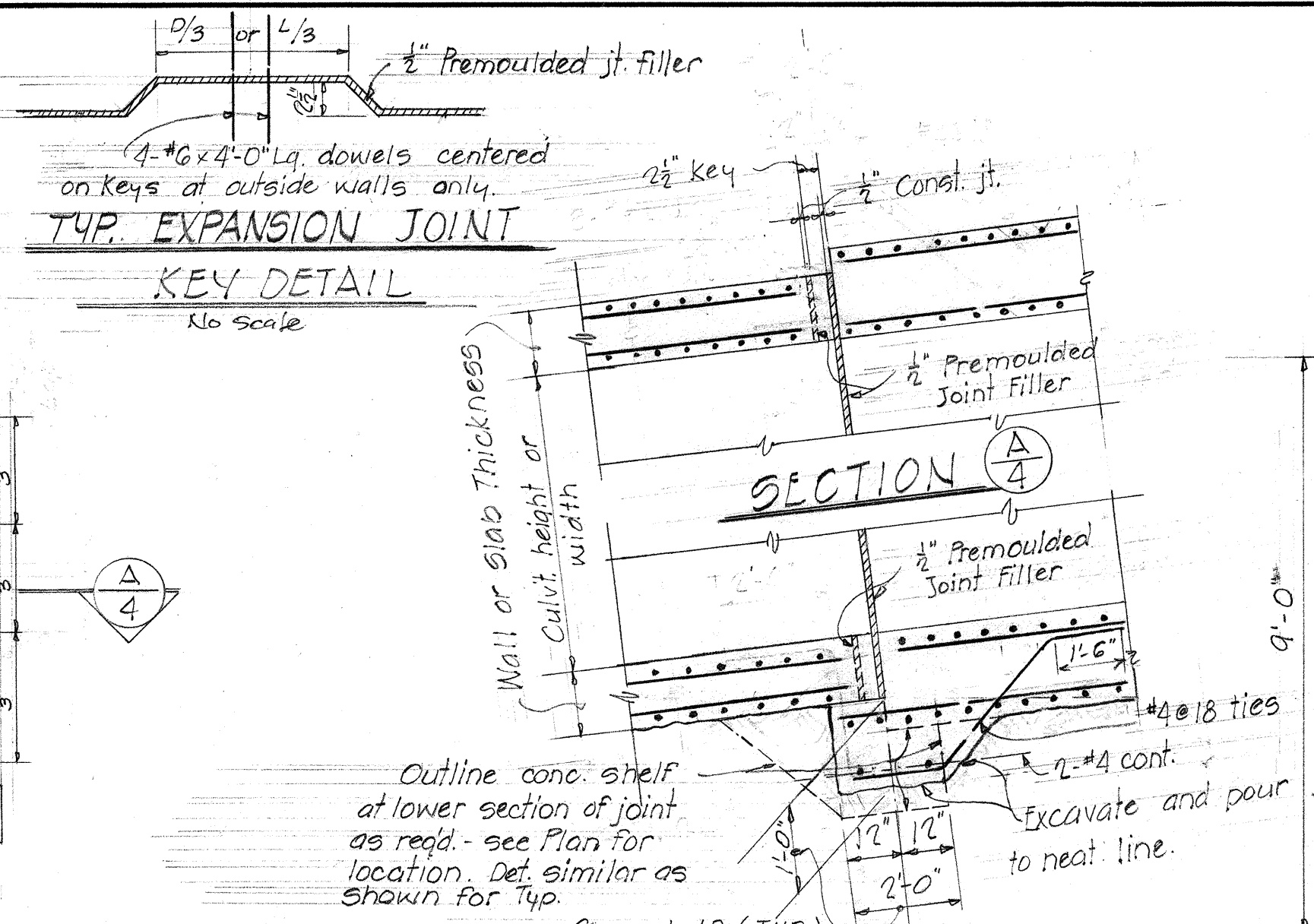


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TWIN 12' x 10' BOX CULVERT
STA. 31+74.21
KAKIPI GULCH SECTION
HANA BELT ROAD S-0360(3)
OCTOBER 1962

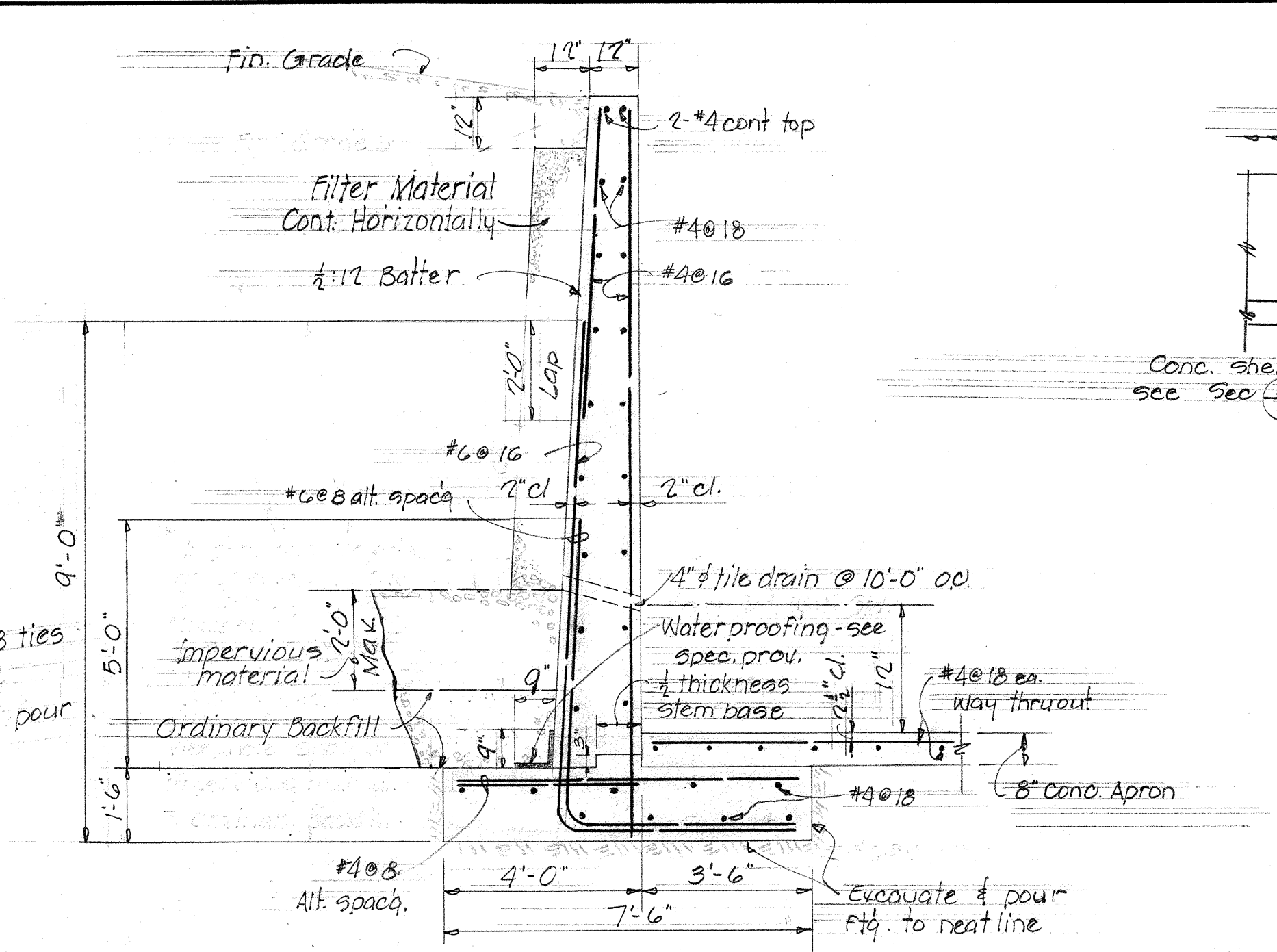
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5-0360(3)	1963	37	38



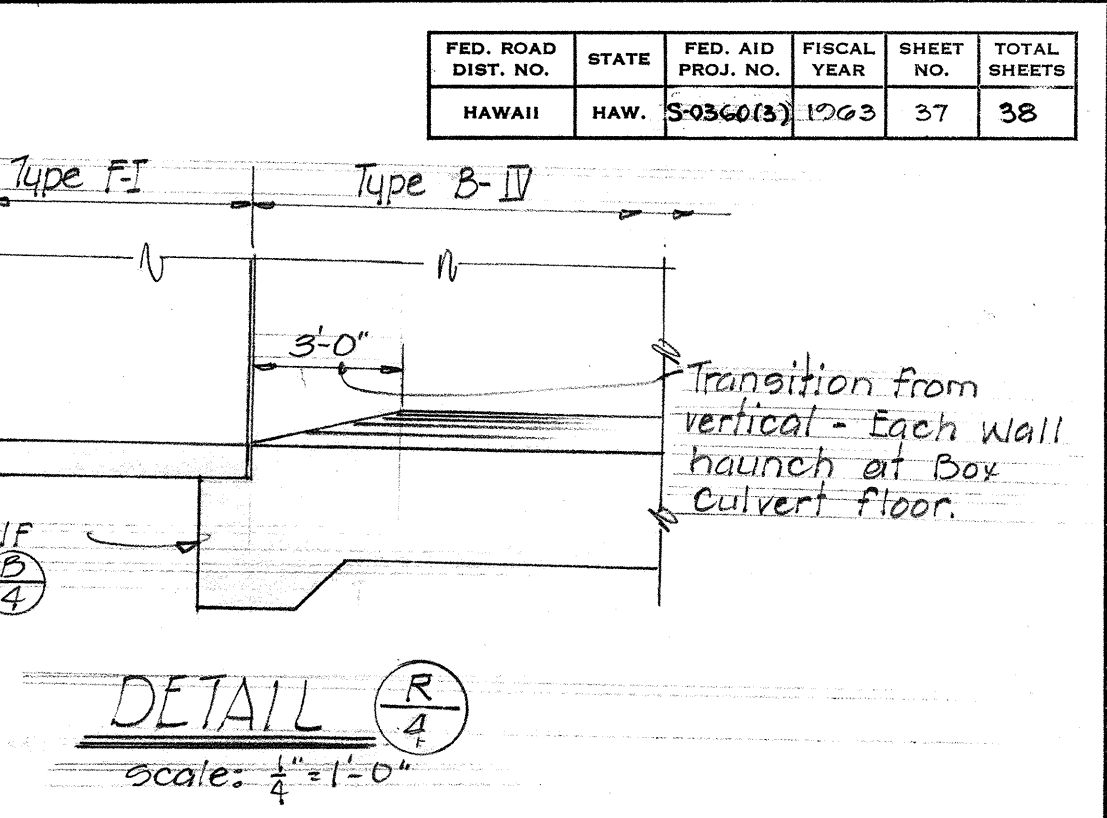
HALF BOX SECTION
HALF FRAME SECTION
ELEVATION-TYPICAL DETAIL AT EXPANSION JOINT
Scale: 1/4" = 1'-0"
NIC



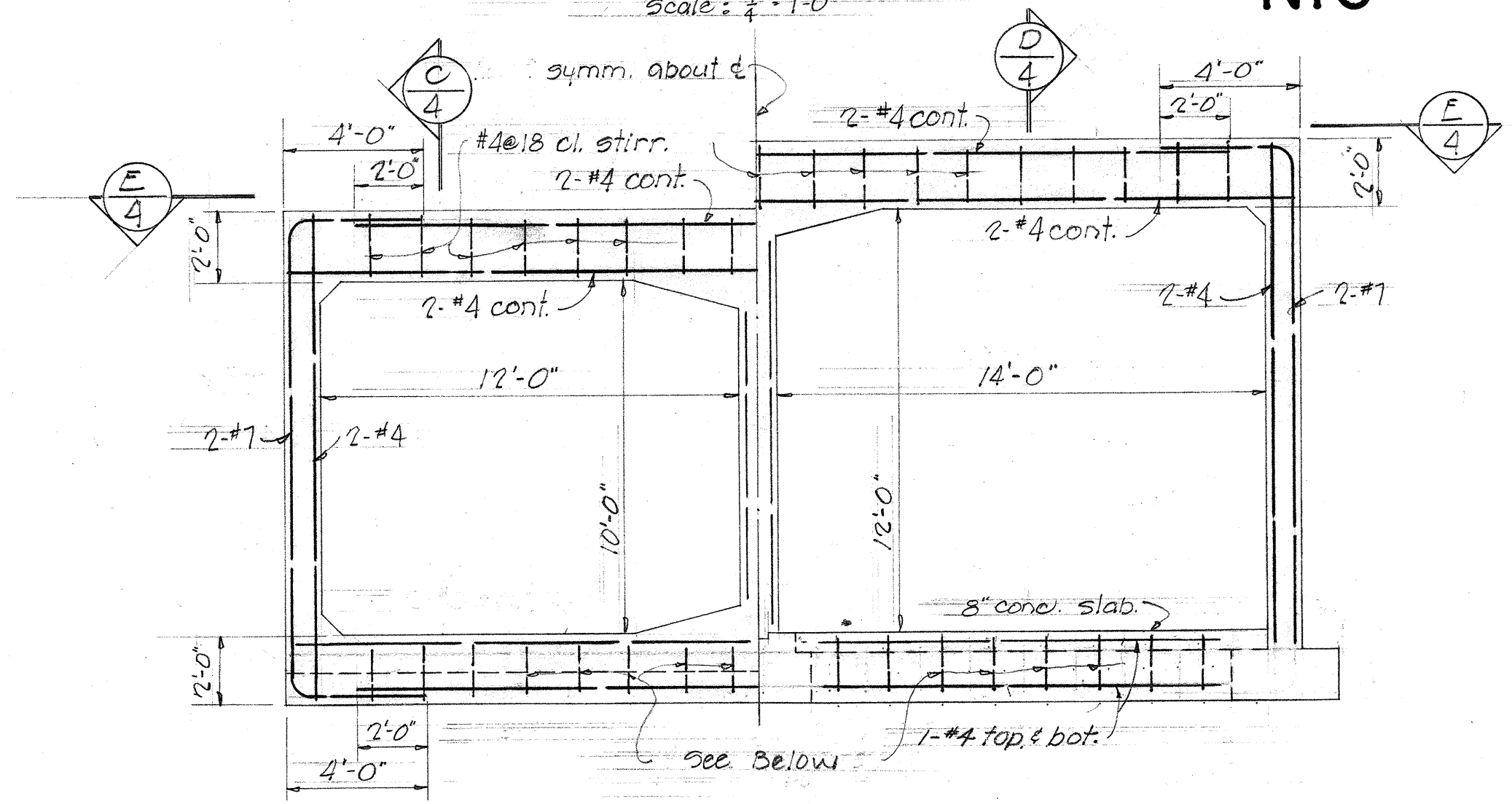
KEY DETAIL
No Scale
SECTION B-B
EXPANSION JOINT SECTIONS
No Scale
NIC



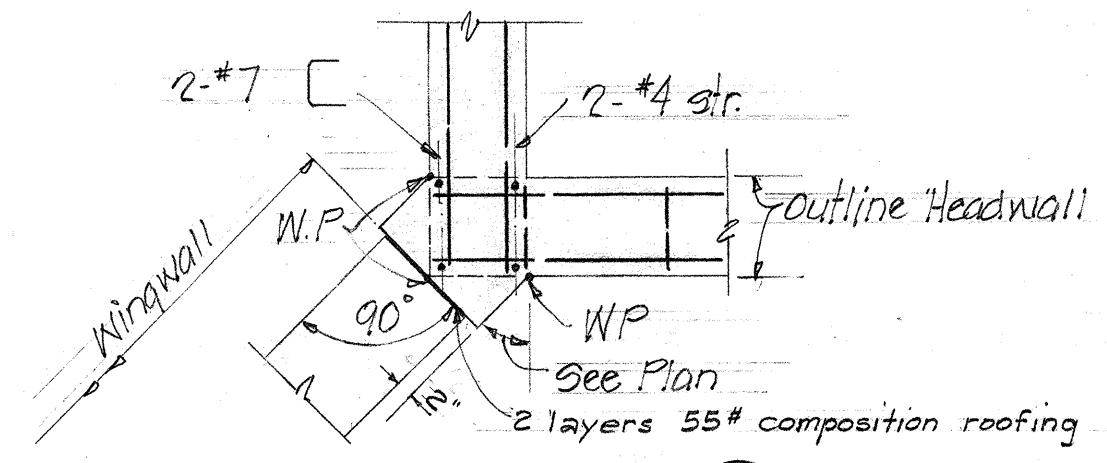
TYP. SEC. THRU CONC. WINGWALL TYPE W-III
Scale: 3/8" = 1'-0"



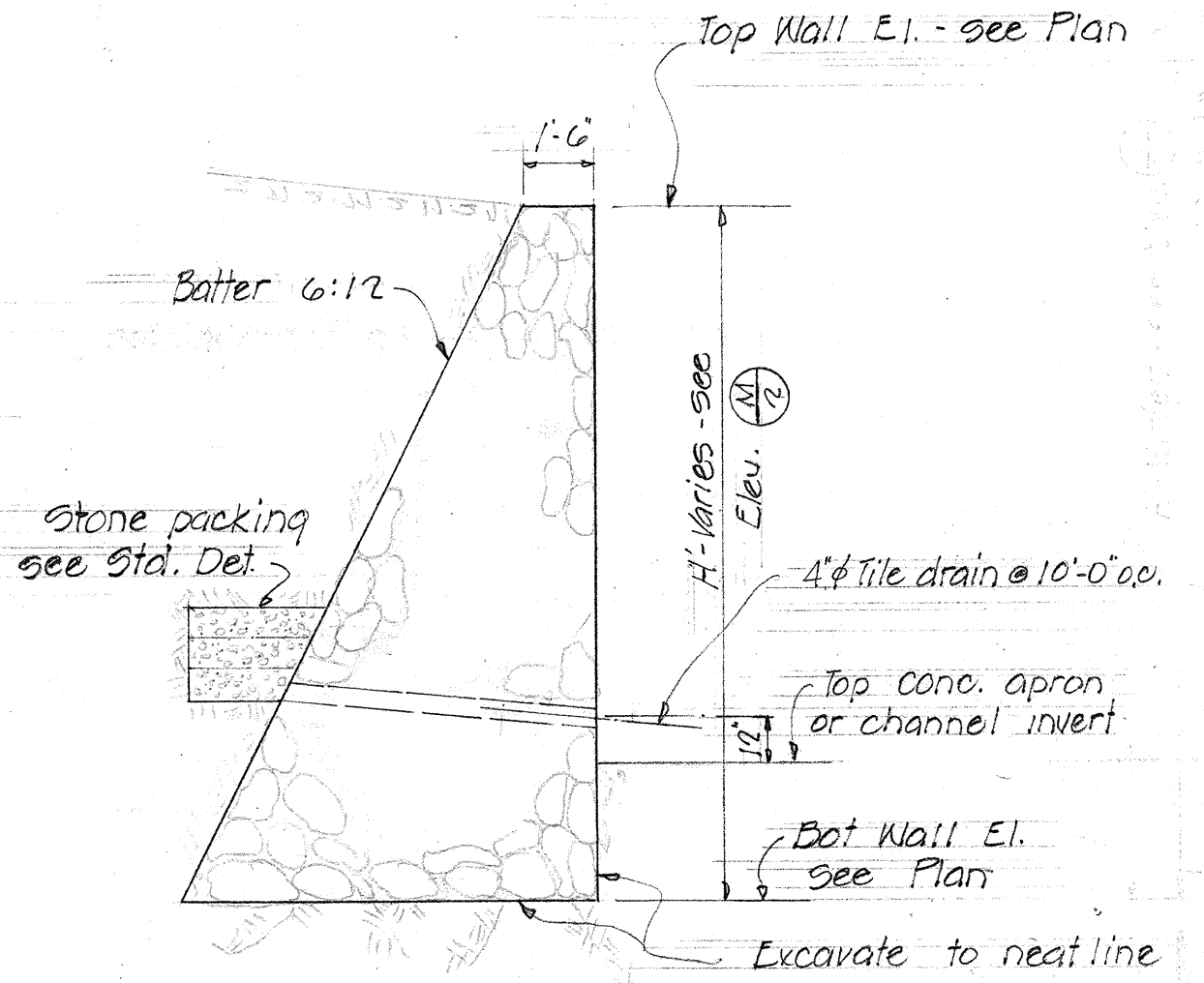
DETAIL R/4
Scale: 1/4" = 1'-0"



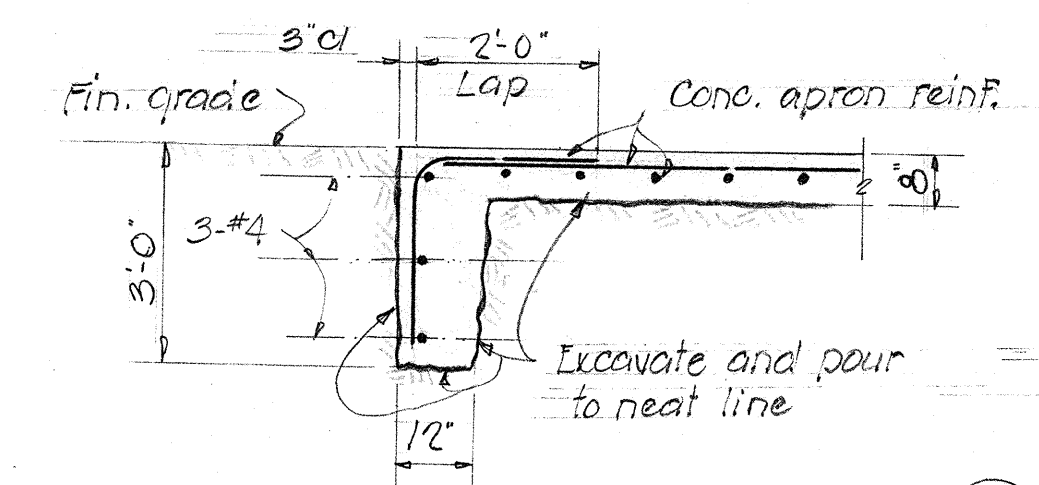
HALF OUTLET
HALF INTAKE
ELEVATION TYPICAL HEADWALL DETAIL
Scale: 1/4" = 1'-0"
NIC



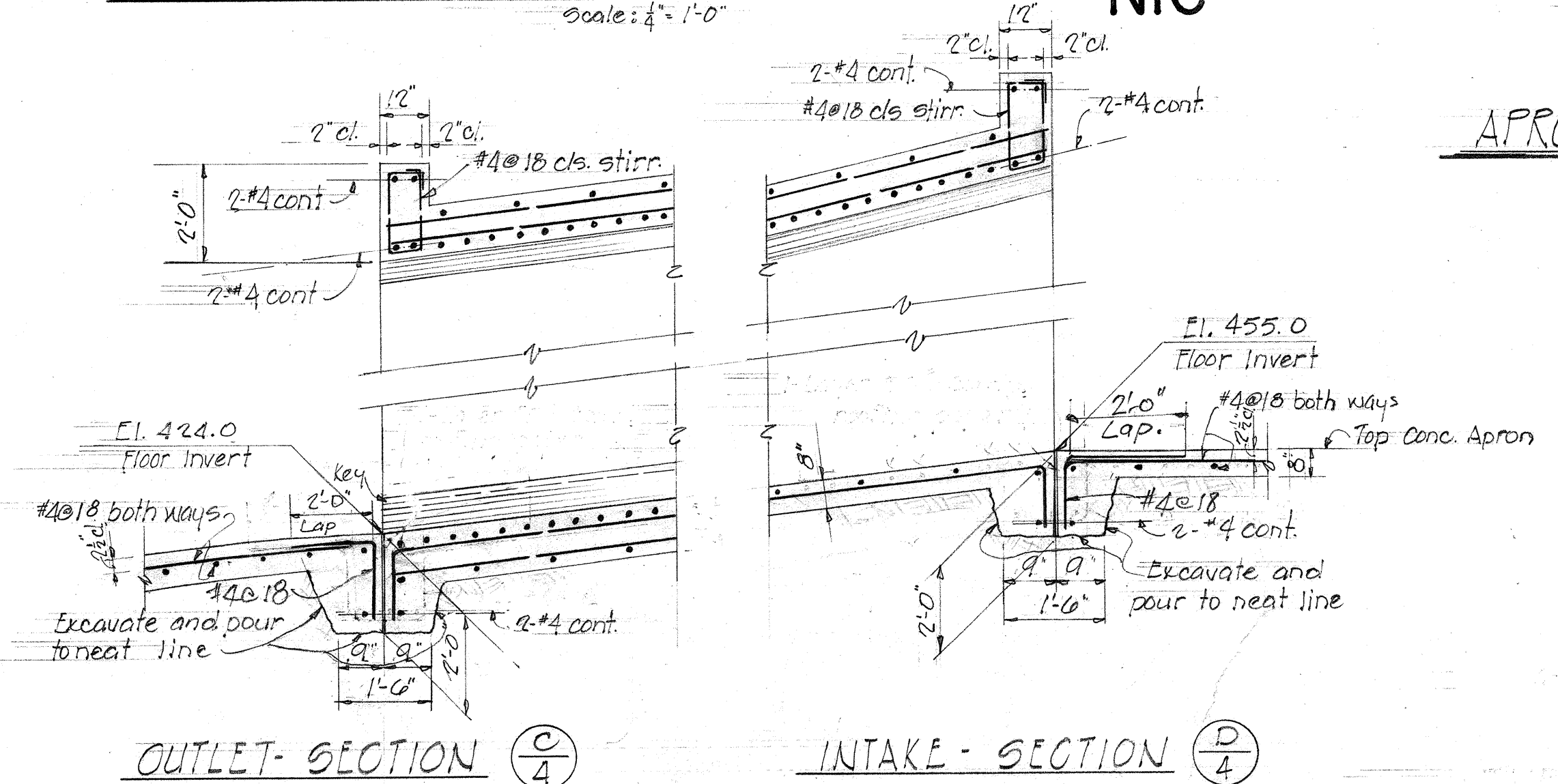
SECTION E-E
TYP. WINGWALL CONNECTION



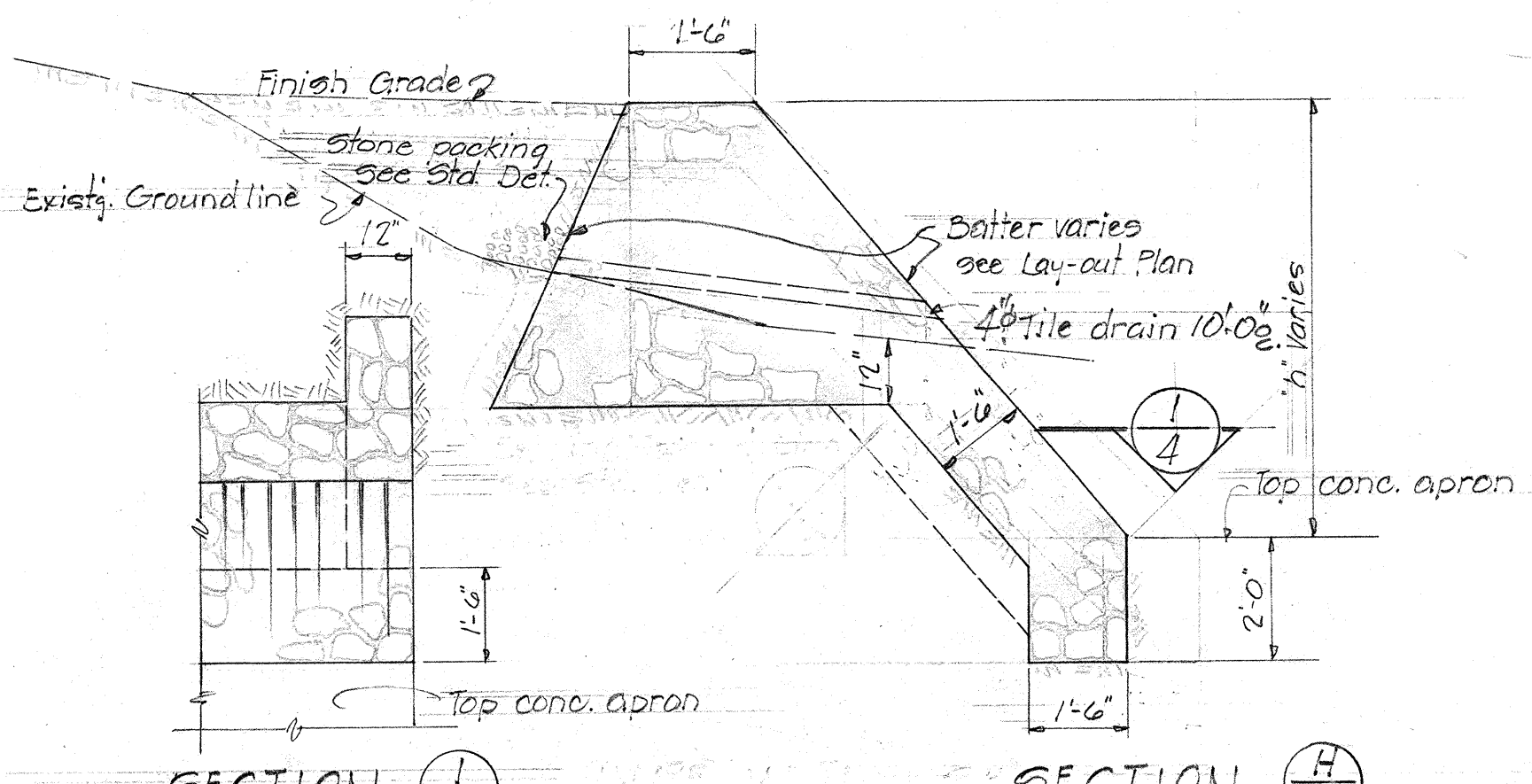
TYPE W-I
TYPICAL CRM WALL SECTION
Scale: 1/4" = 1'-0"



APRON CUT-OFF SECTION H-H
Scale: 3/8" = 1'-0"



OUTLET-SECTION C-C
INTAKE-SECTION D-D
TYPICAL HEADWALL SECTION
Scale: 3/8" = 1'-0"
NIC



SECTION I-I
SECTION J-J
TYPICAL CRM WALL SECTIONS TYPE W-II
Scale: 3/8" = 1'-0"

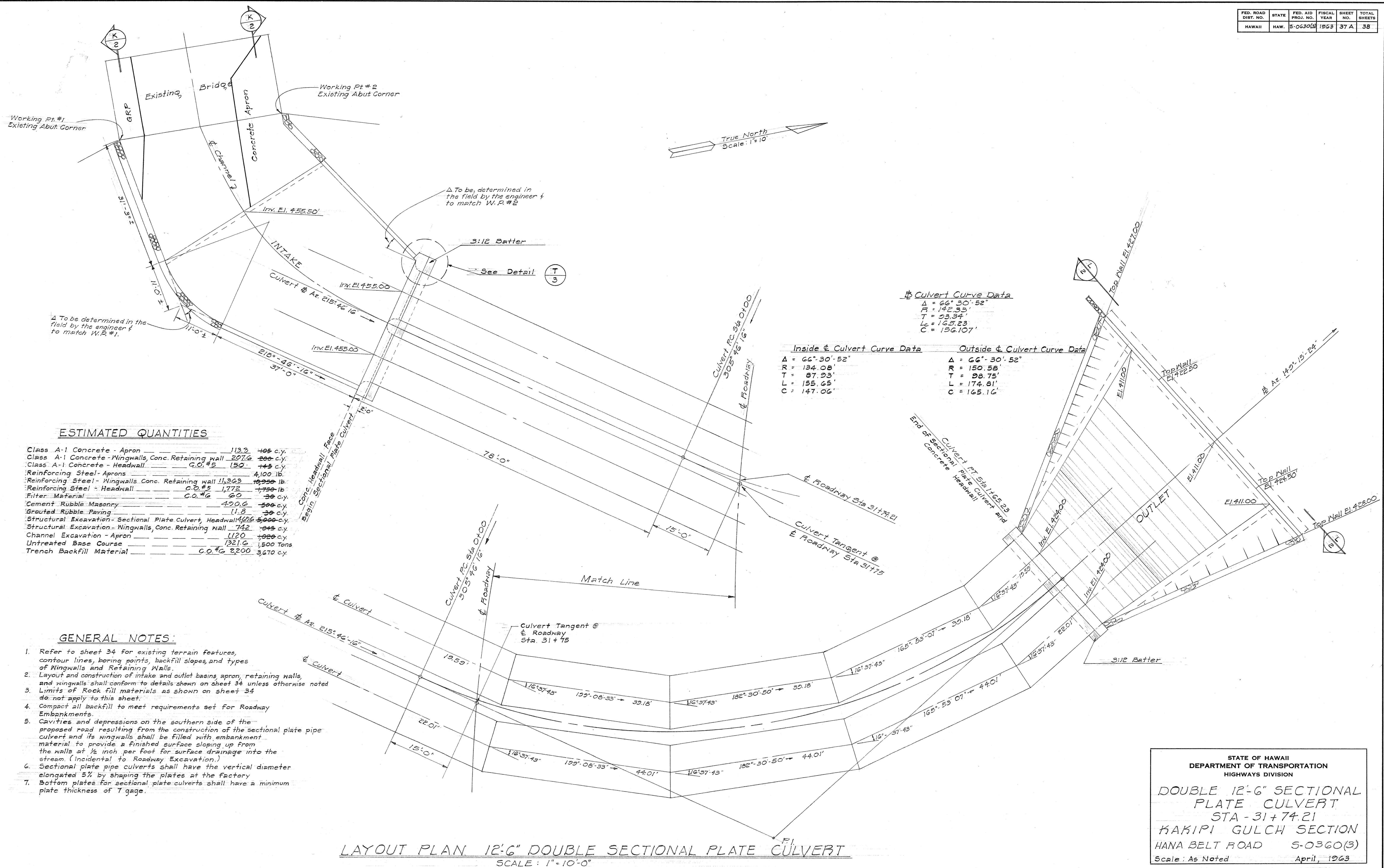
Revised 4-29-'63

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TWIN 12'x10' BOX CULVERT
STA. 31+74.21
KAKIPI GULCH SECTION
HANA BELT ROAD 5-0360(3)
OCTOBER 1962
SHEET No. 4 OF 4 SHEETS

DATE	_____
DESIGNED BY	_____
TRACED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
No.	_____

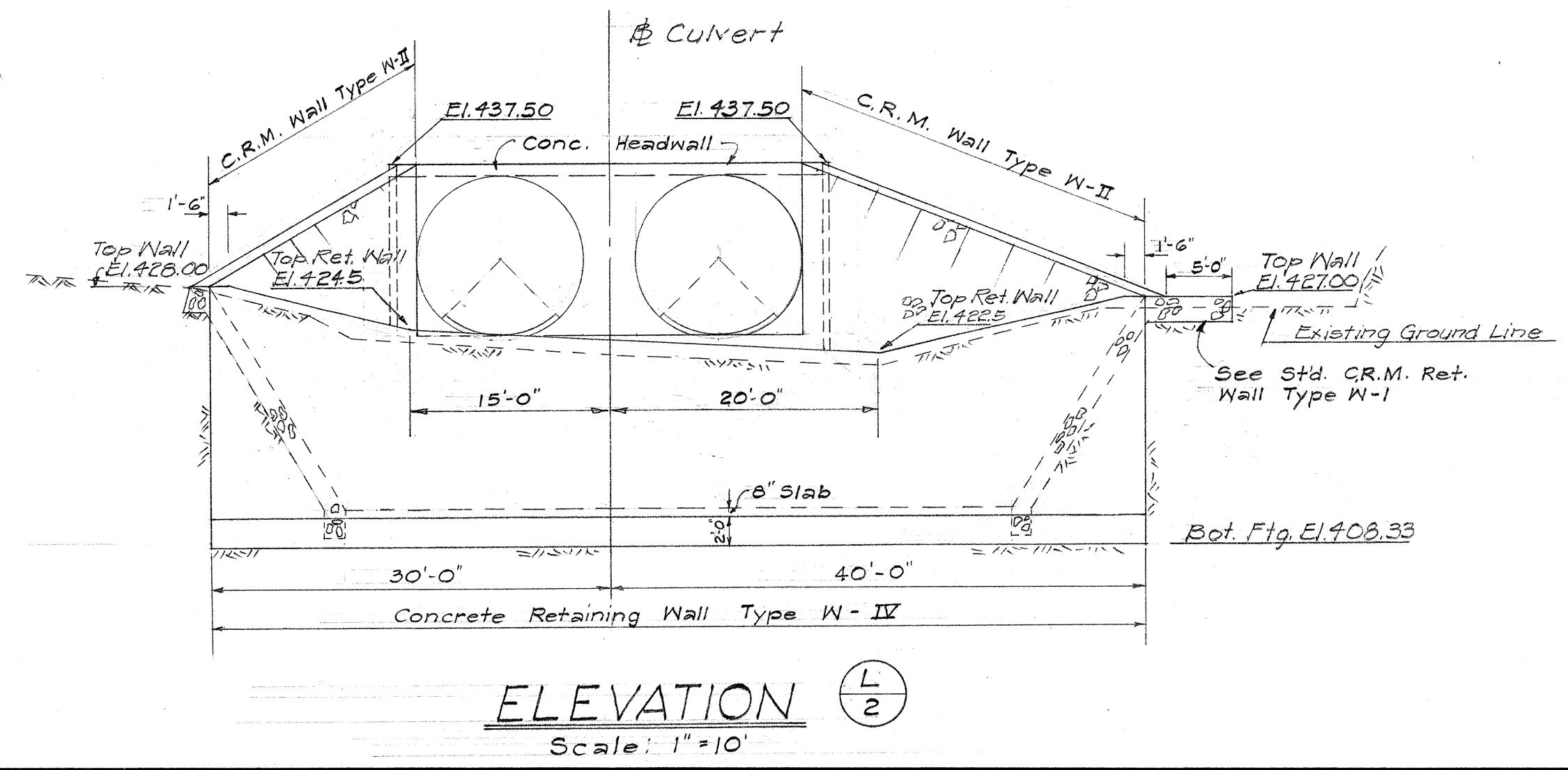
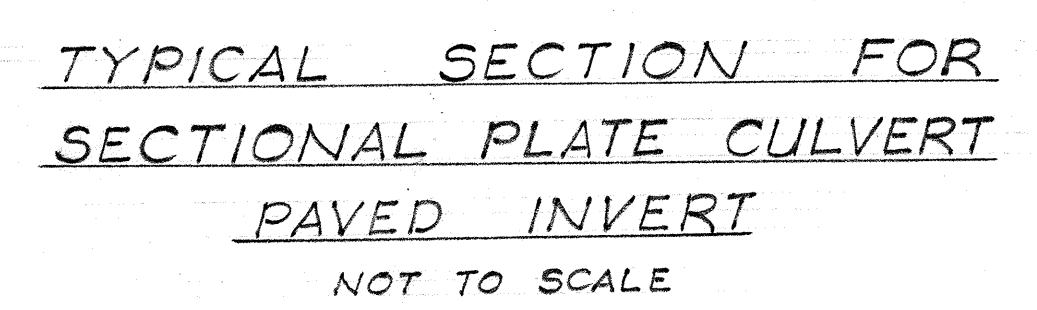
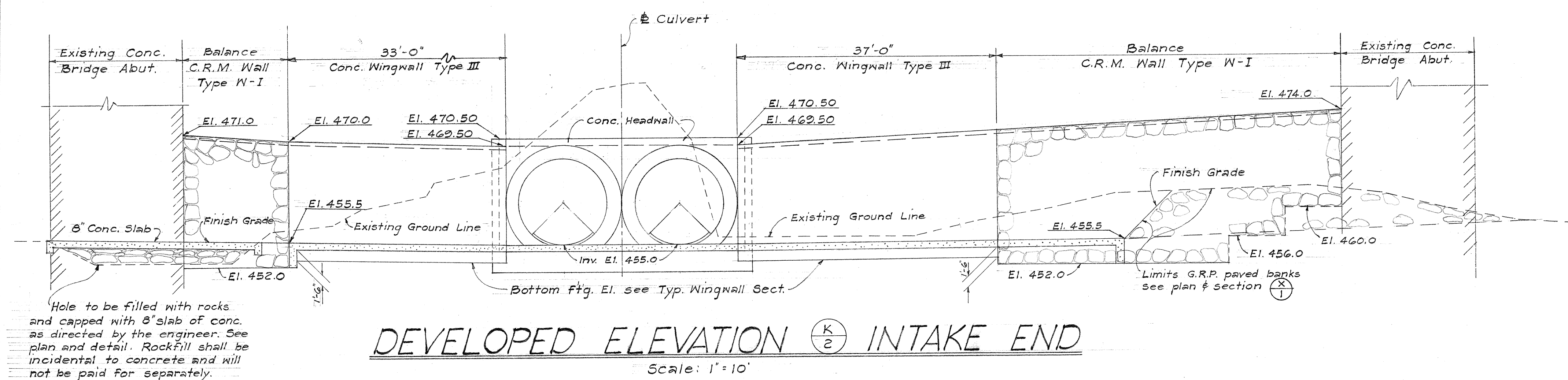
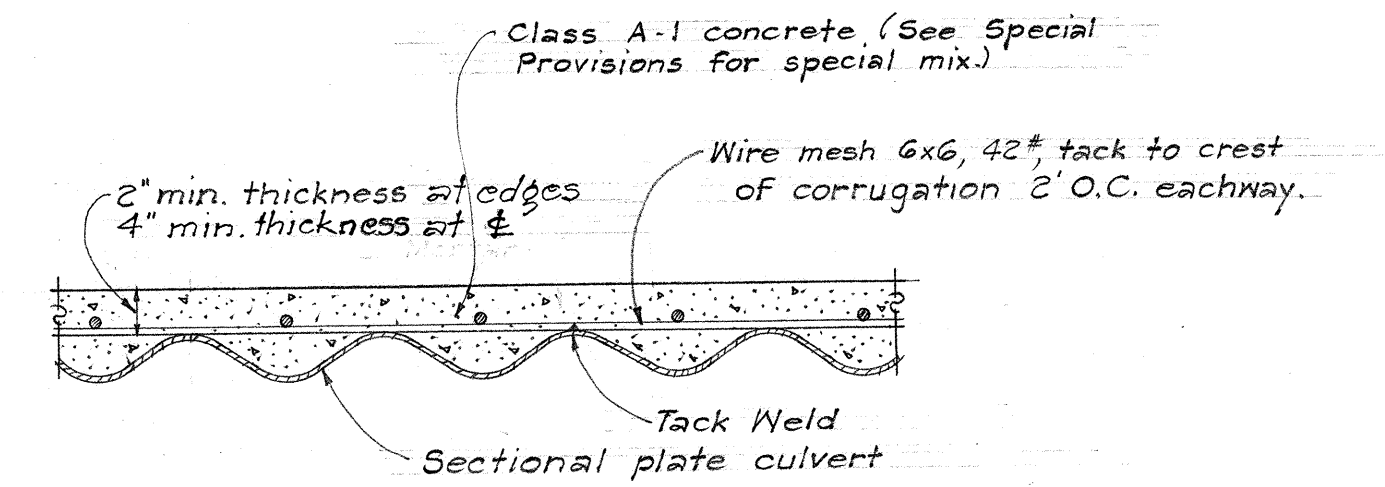
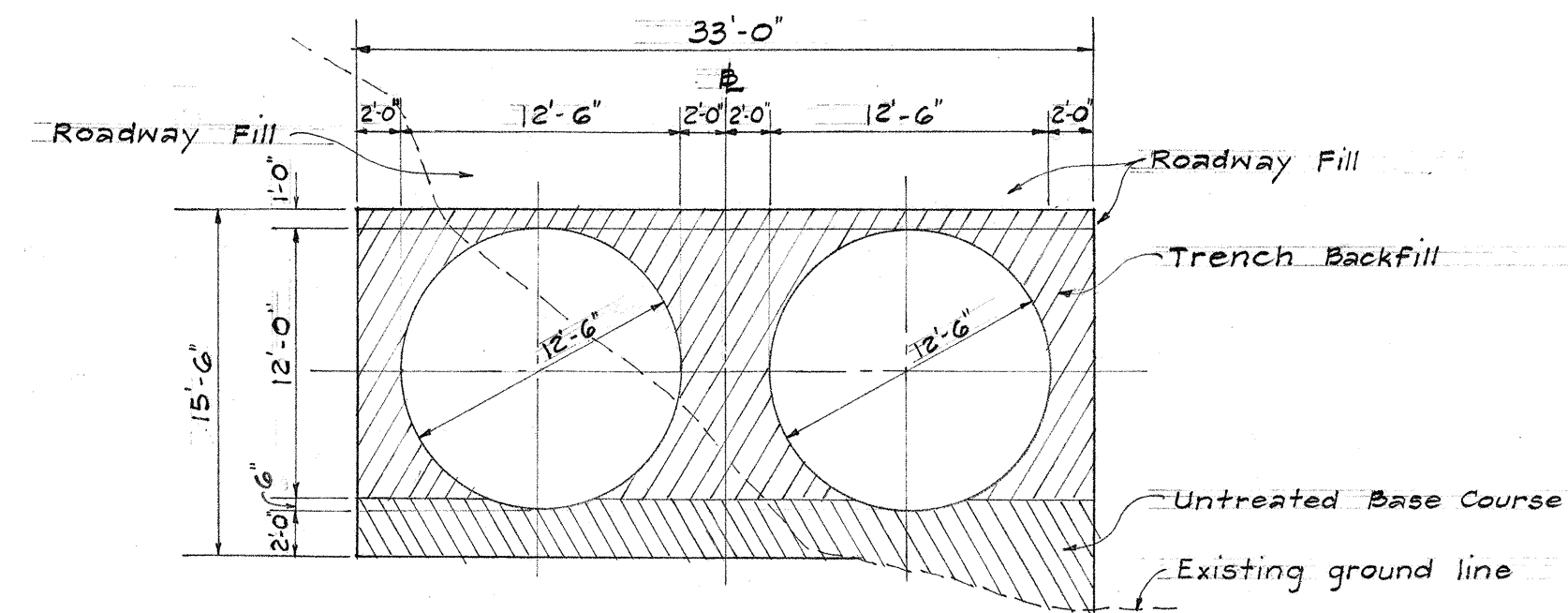
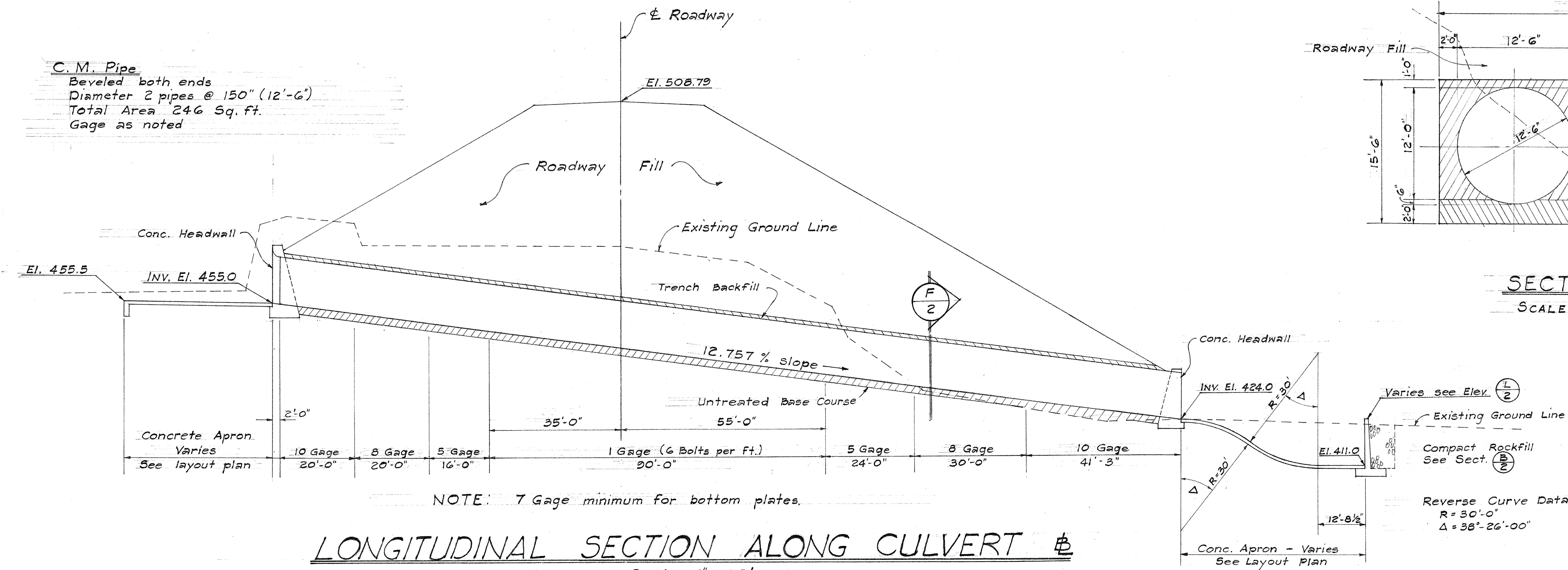
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5-0630(3)	1963	37 A	38



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

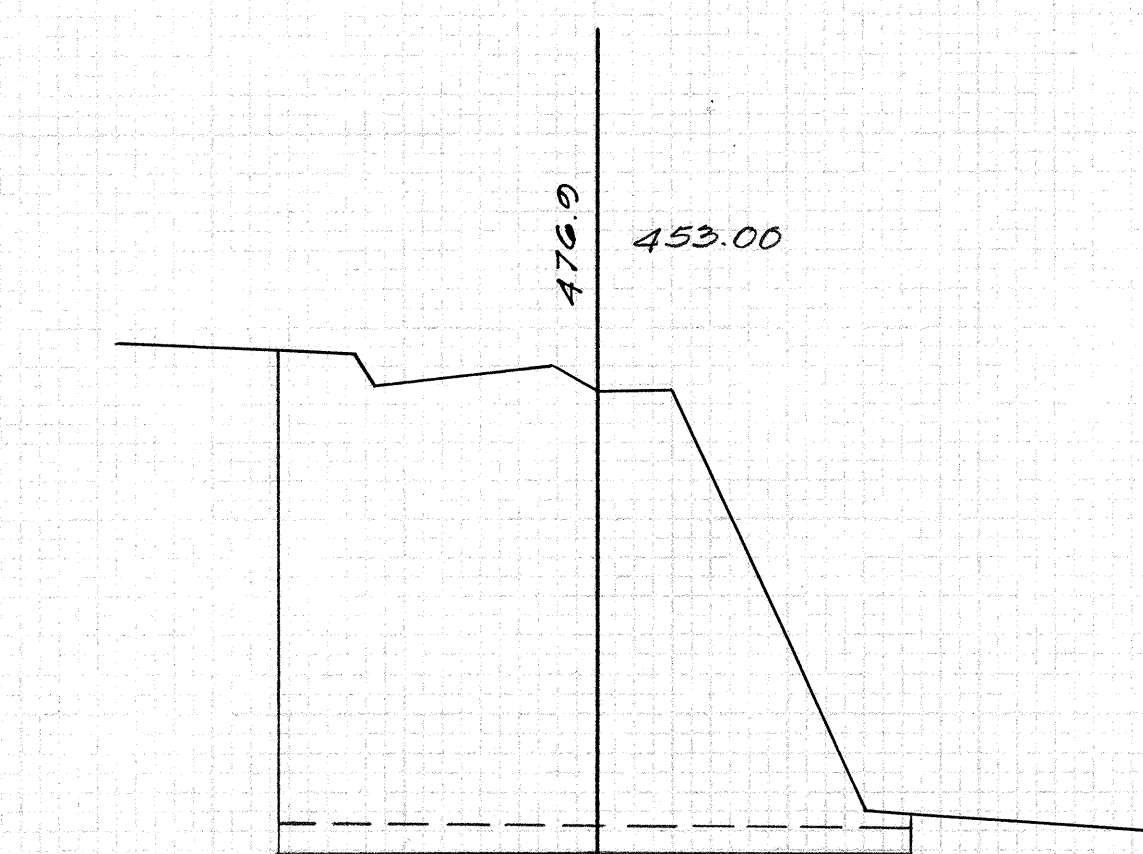
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5-06303	1963	37 B	38

C.M. Pipe
Beveled both ends
Diameter 2 pipes @ 150" (12'-6")
Total Area 246 Sq. ft.
Gage as noted



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAILS FOR DOUBLE 12'-6"
SECTIONAL PLATE CULVERT
STA. 31+74.21
KAKIPI GULCH SECTION
HANA BELT RD. S-0360 (3)
Scale: As Noted April, 1963



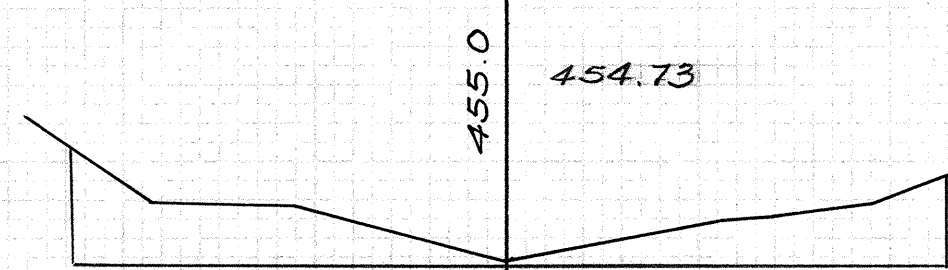
C = 640
F = 606
E = 0

1 + 00



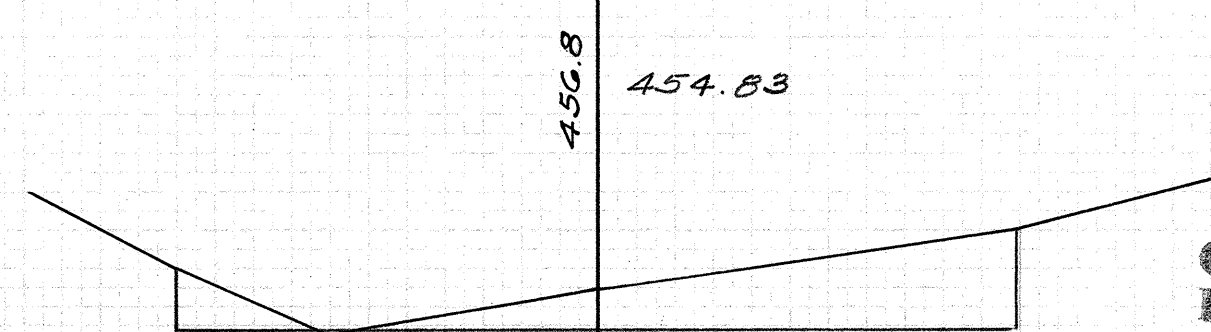
C = 194
F = 0
E = 0

0 + 50



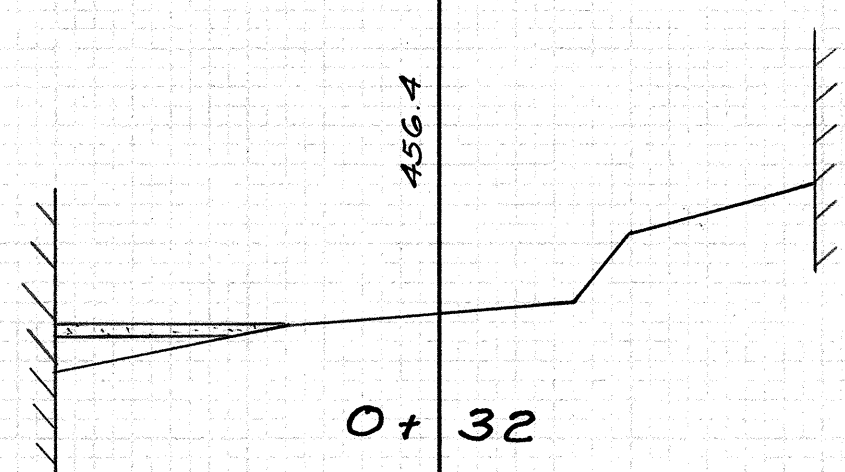
C = 104
F = 0
E = 0

0 + 65



C = 94
F = 0
E = 0

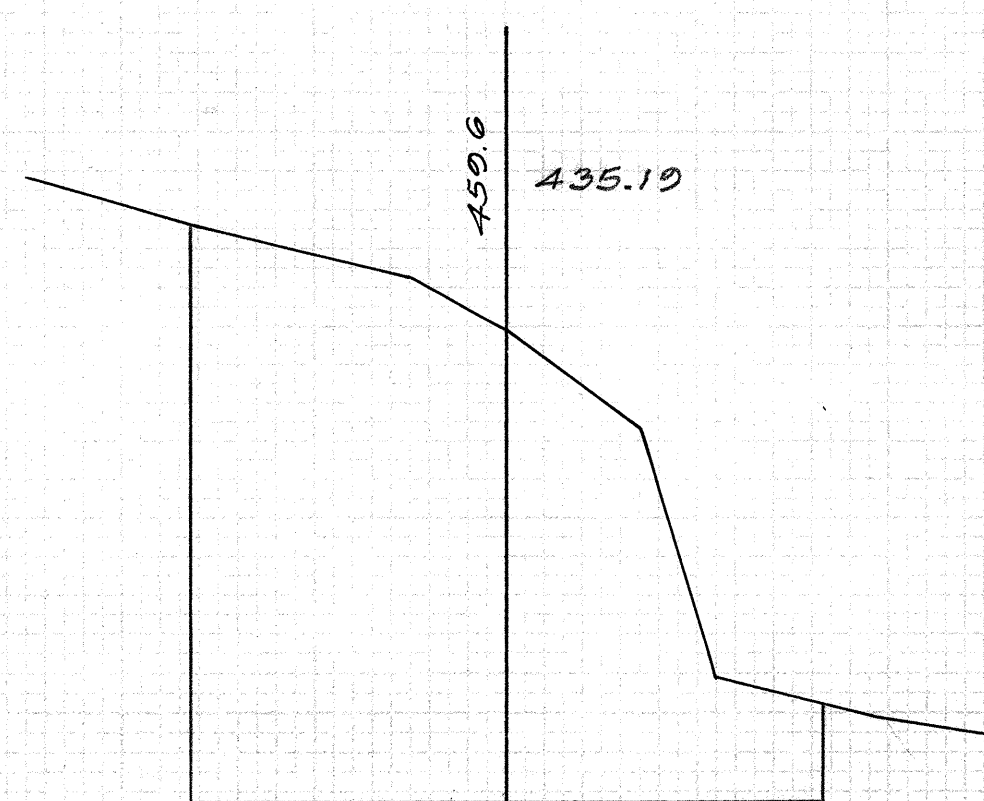
0 + 85



C = 0
F = 0
E = 0

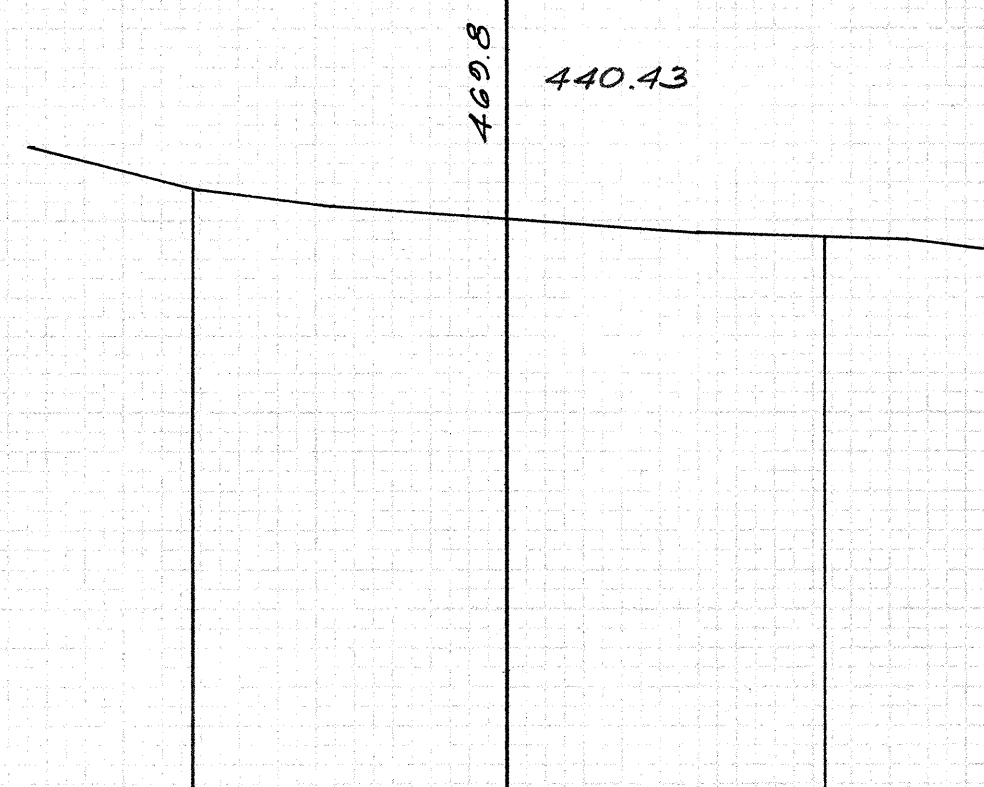
0 + 95

CHANNEL EXC. - STA. 0+32 TO 1+00



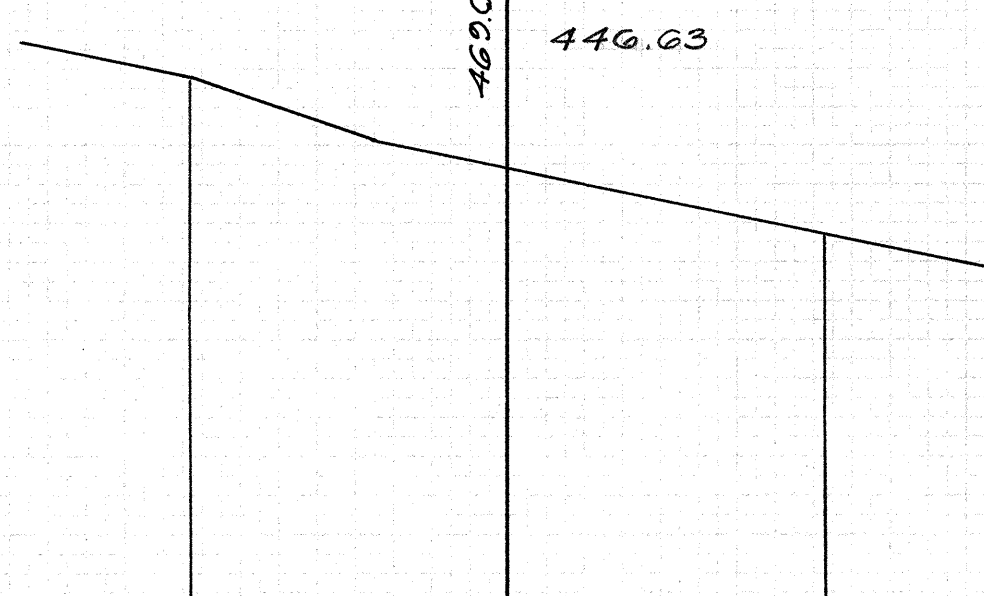
C = 693
F = 0
E = 0

2 + 39.95



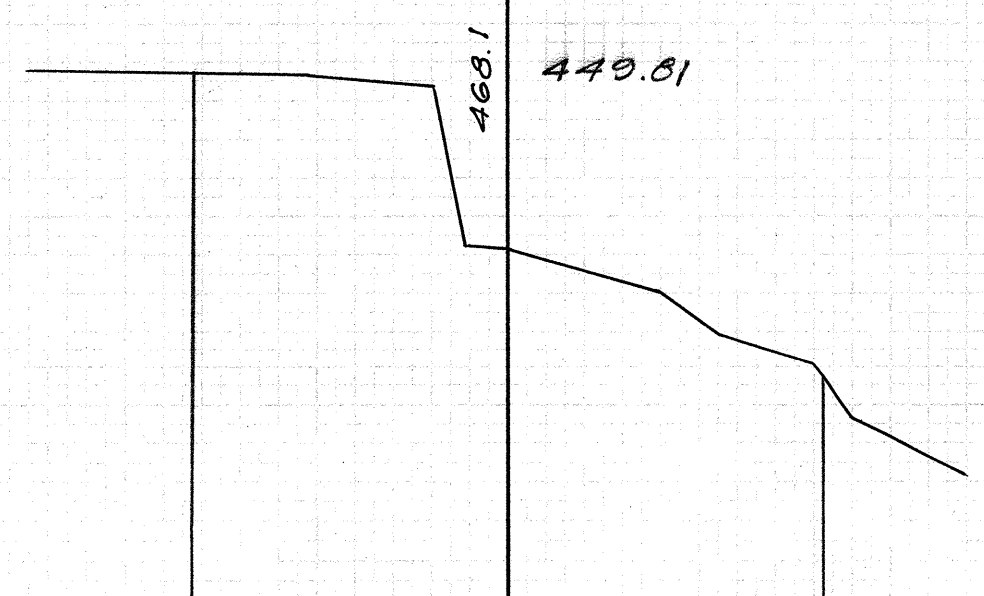
C = 961
F = 0
E = 0

1 + 98.65



C = 717
F = 0
E = 0

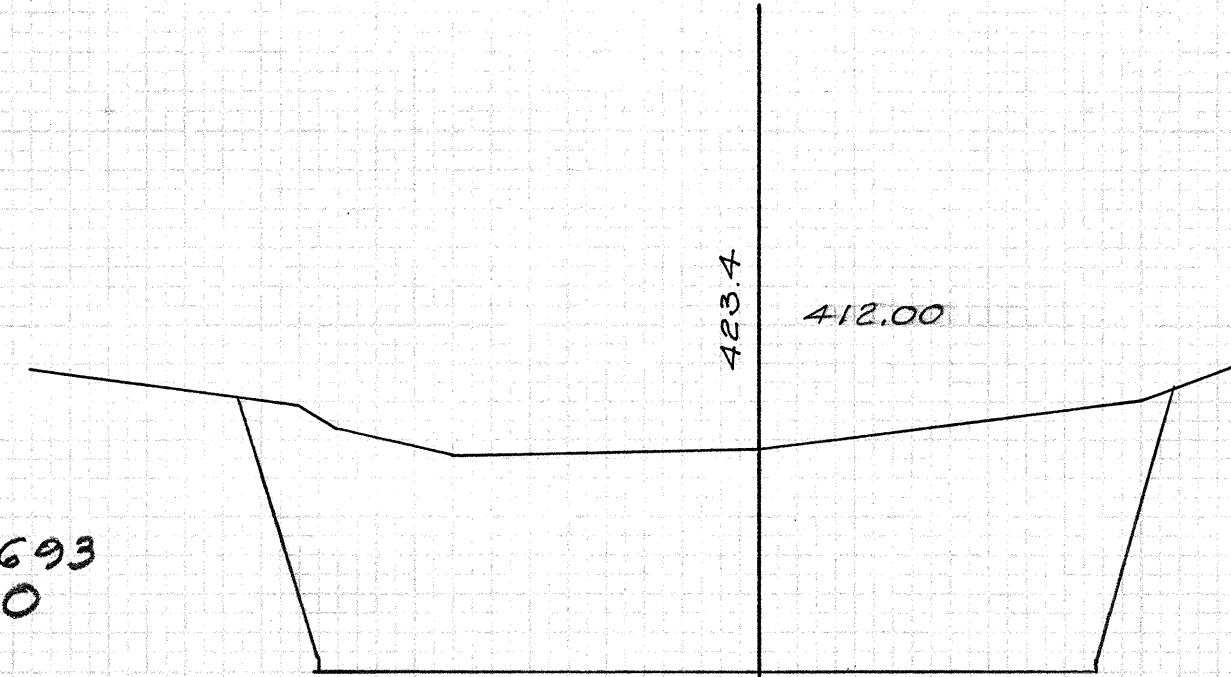
1 + 50



C = 660
F = 0
E = 0

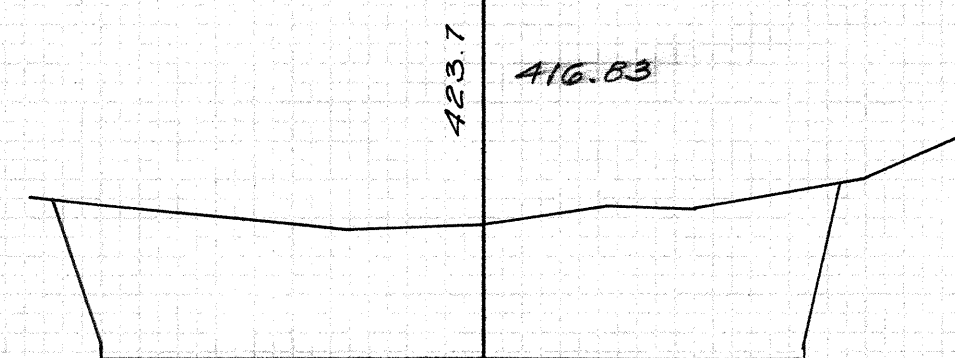
1 + 25

STRUCT. EXC. - STA. 1+00 TO 3+43.28
SECT'L OF CULVERT



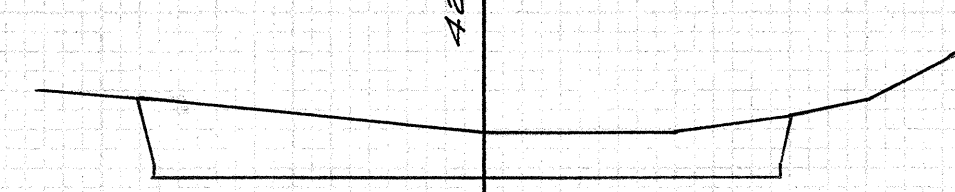
C = 529
F = 0
E = 0

3 + 70.66



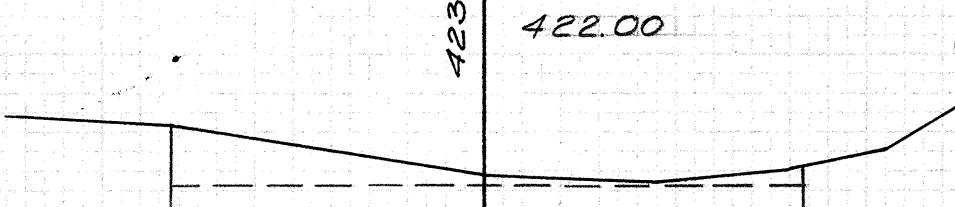
C = 279
F = 0
E = 0

3 + 61.98



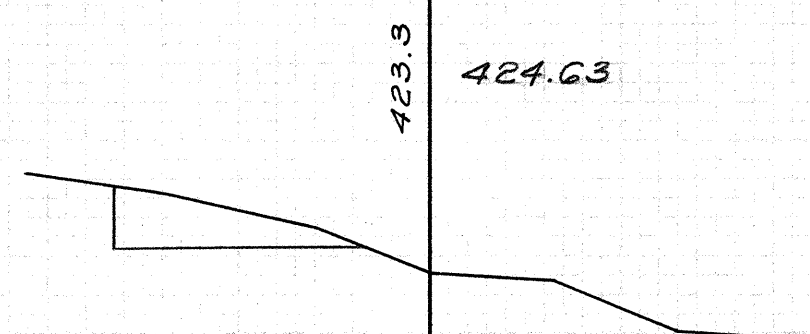
C = 91
F = 0
E = 0

3 + 53.10



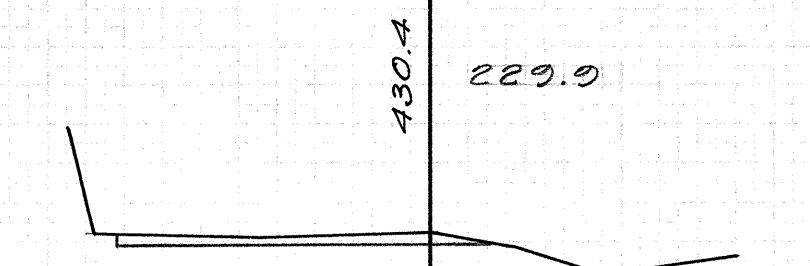
C = 34
F = 78
E = 0

3 + 43.28



C = 25
F = 0
E = 0

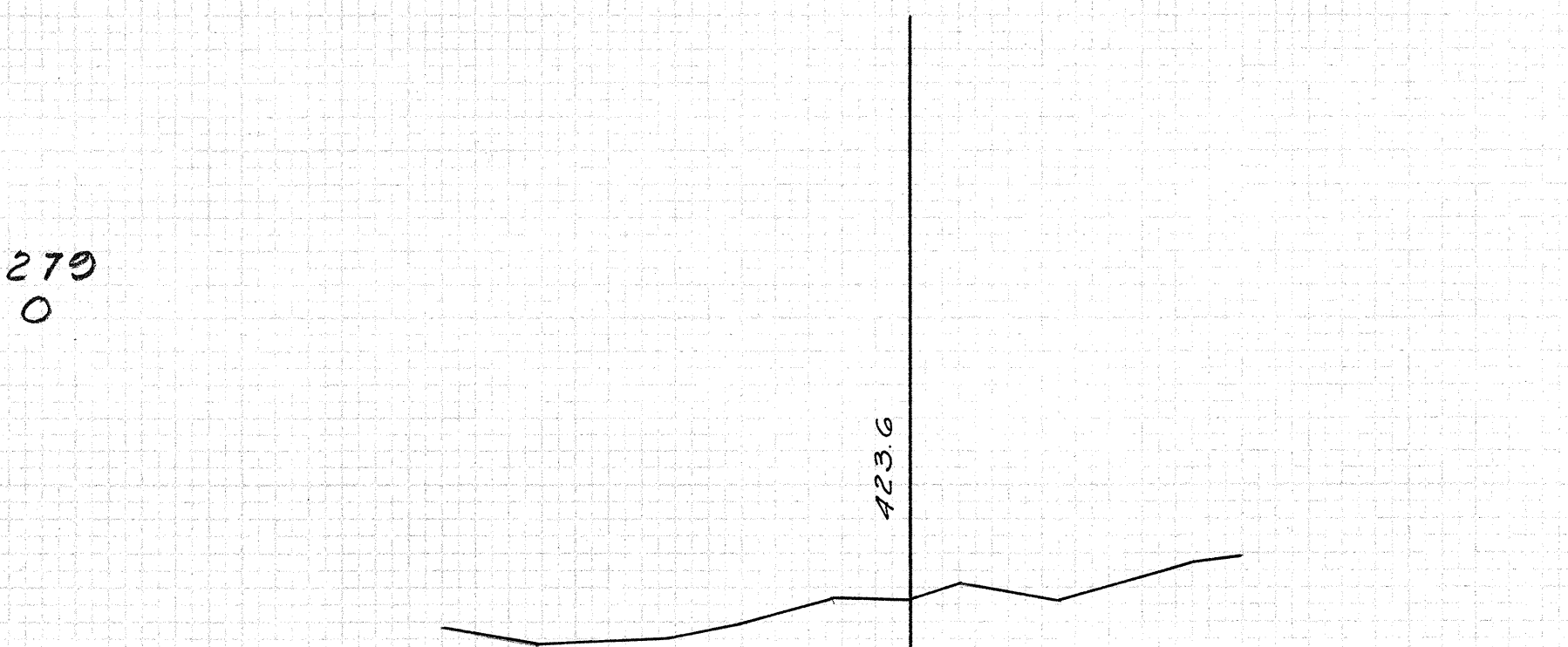
3 + 22.58



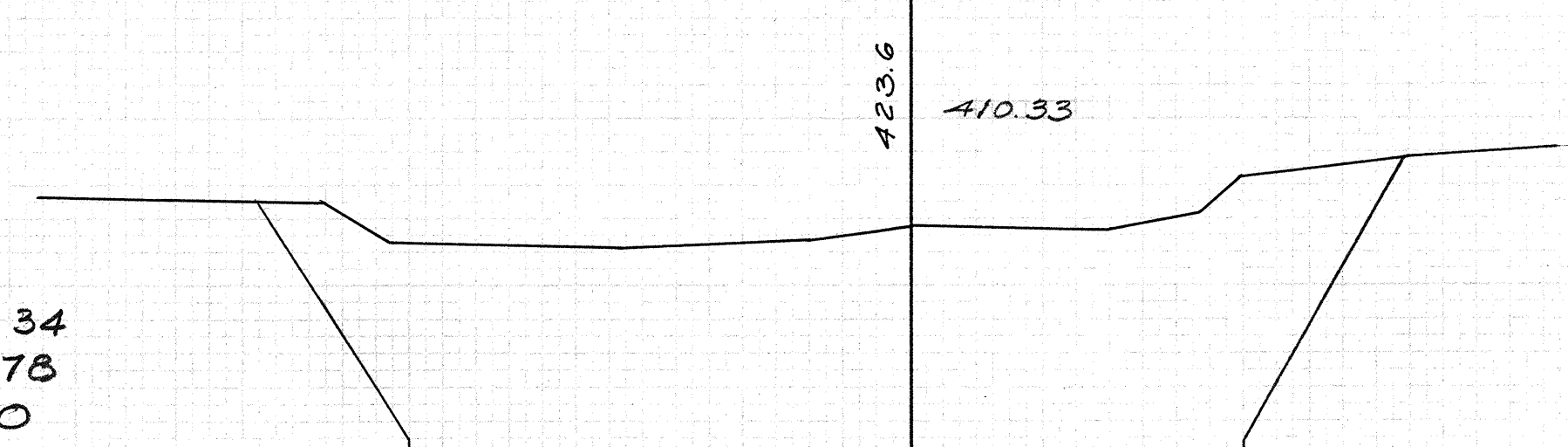
C = 10
F = 0
E = 0

2 + 81.27

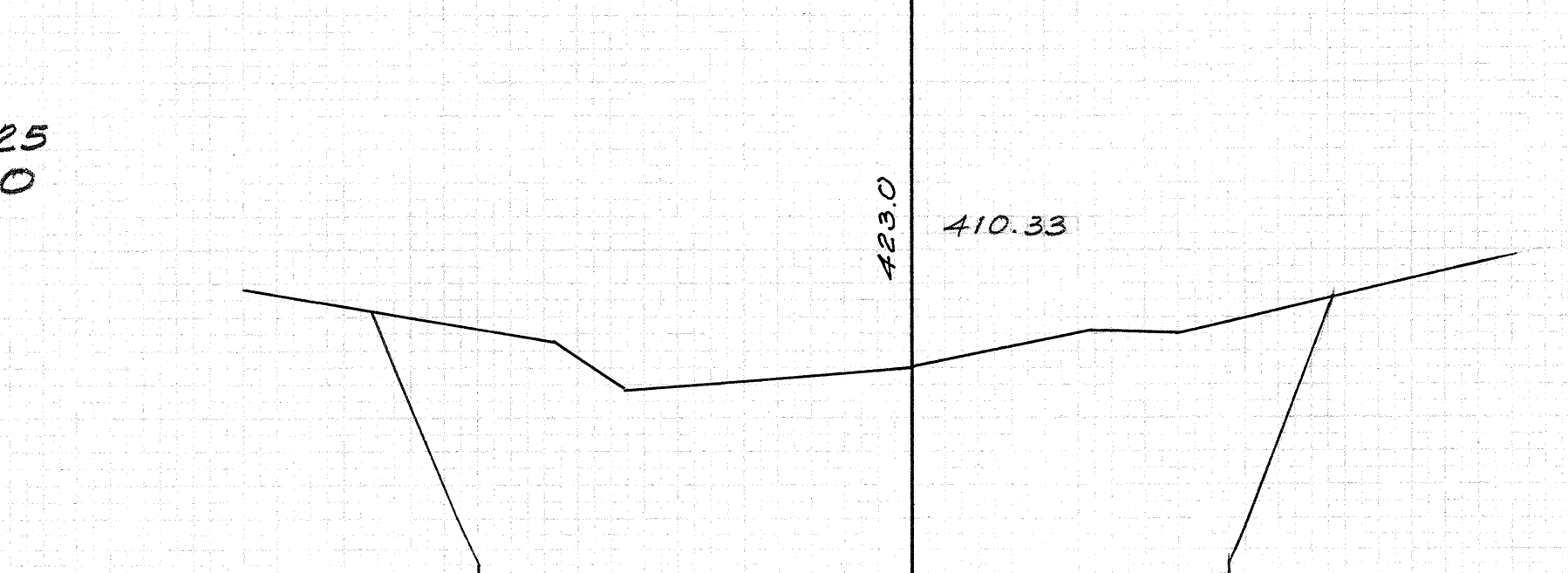
CHANNEL EXC. STA. 3+43.28 TO 3+98.23



4 + 03.23



3 + 98.23



3 + 80.52

C = 716
F = 0
E = 0

C = 665
F = 0
E = 0