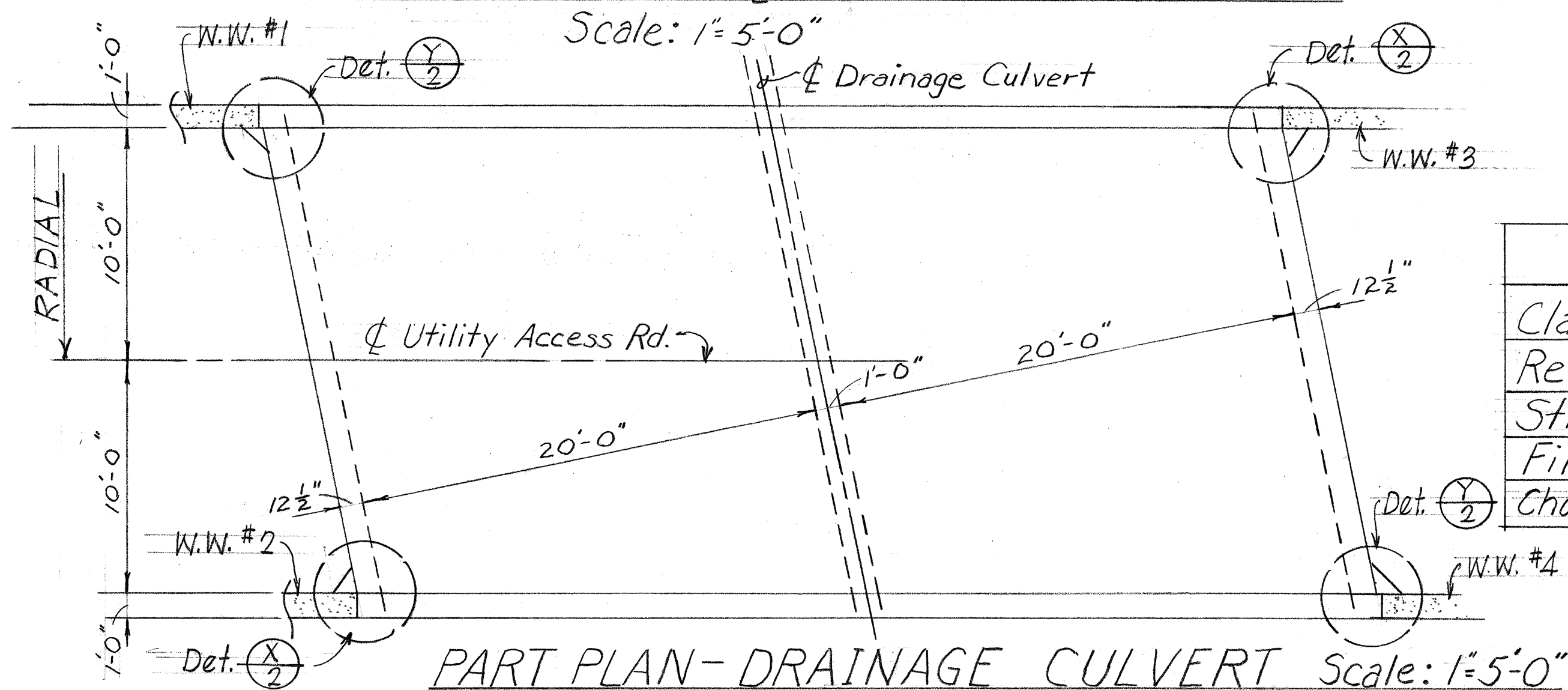
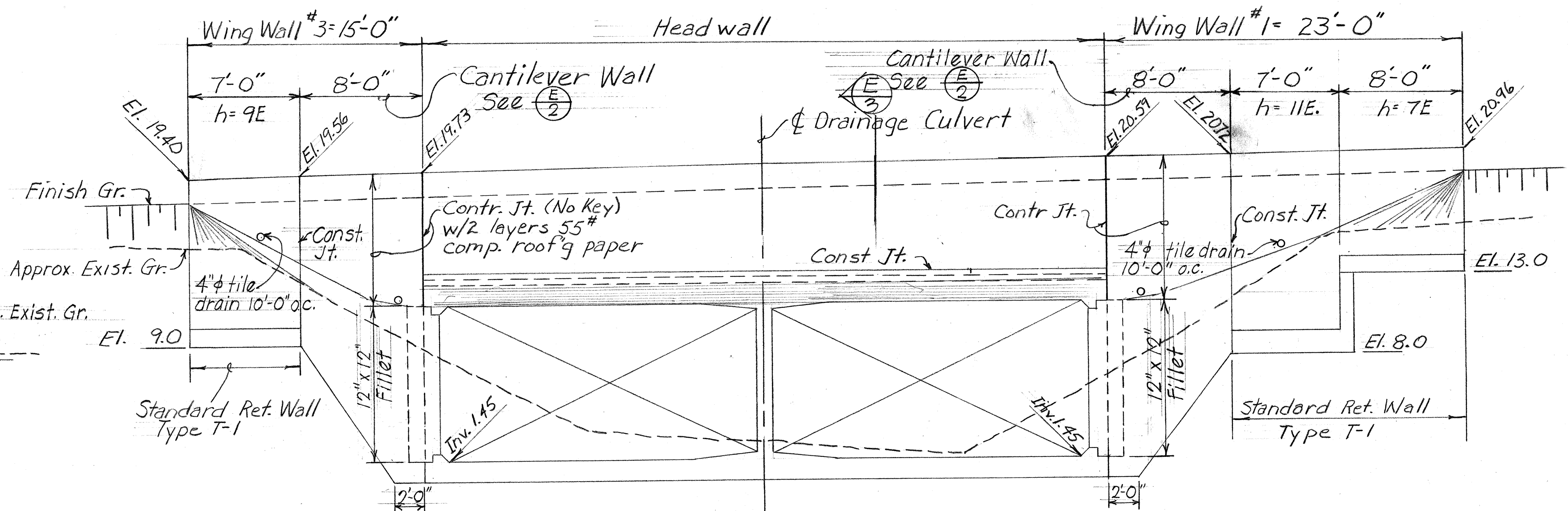
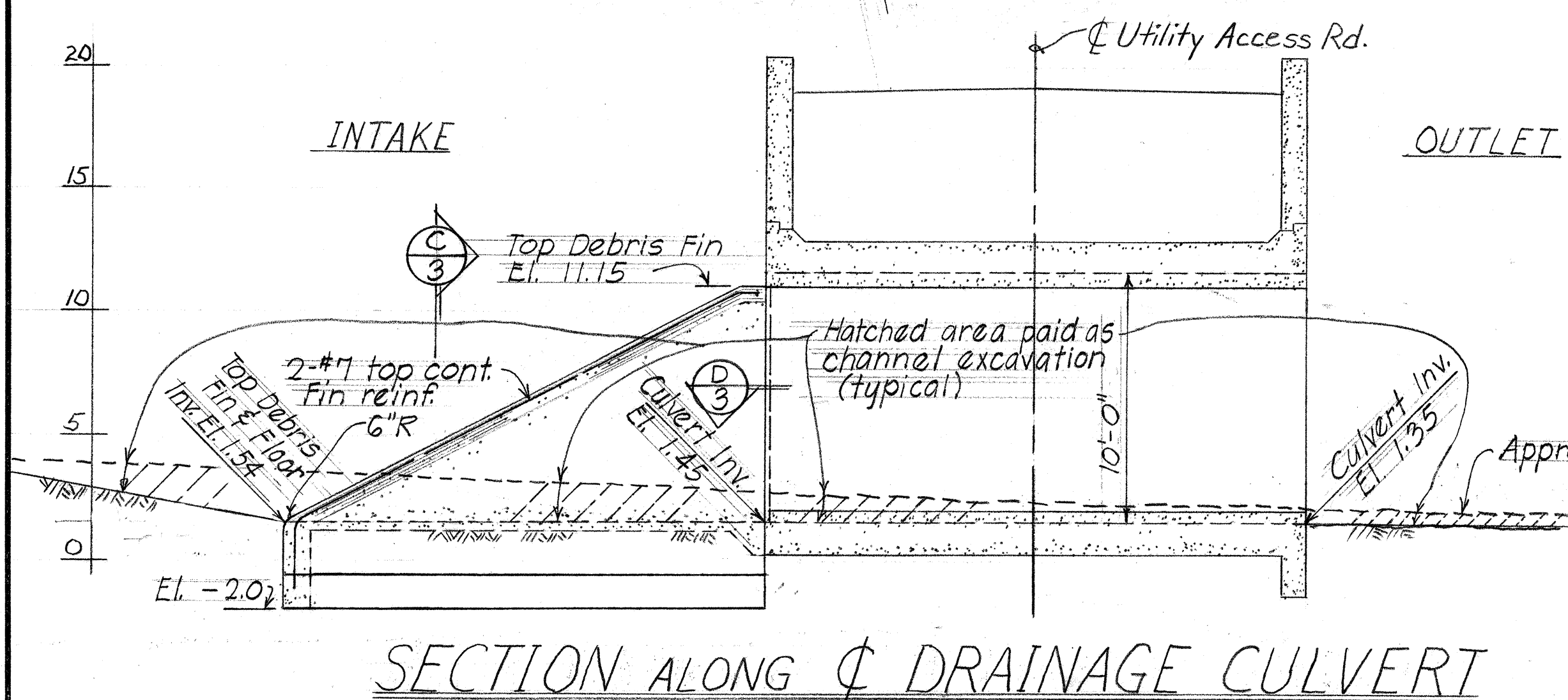
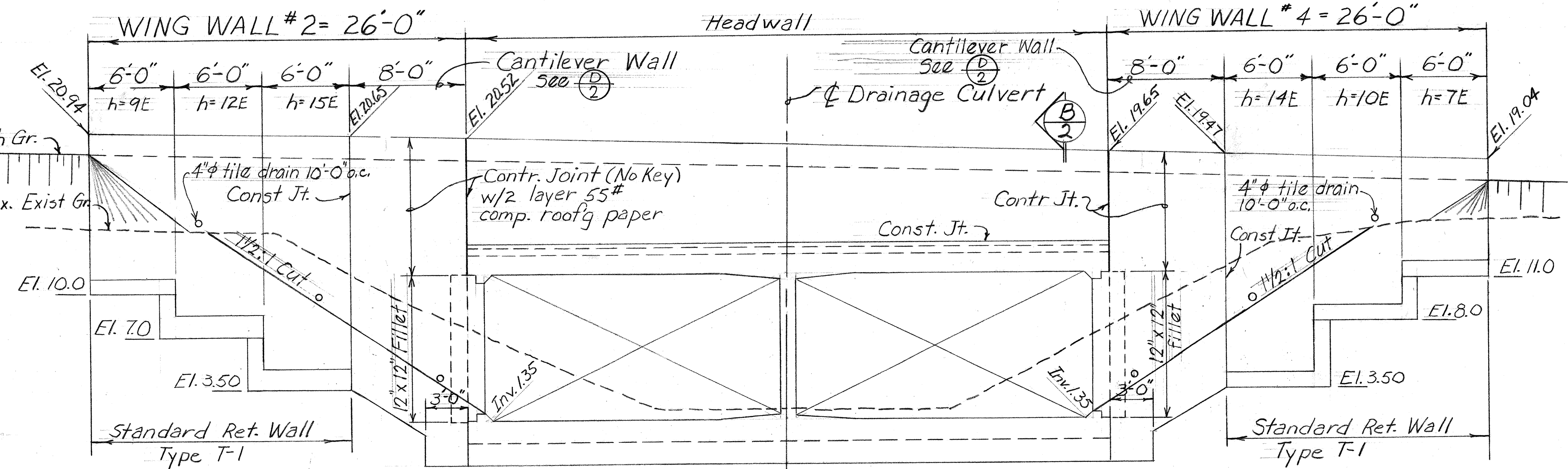
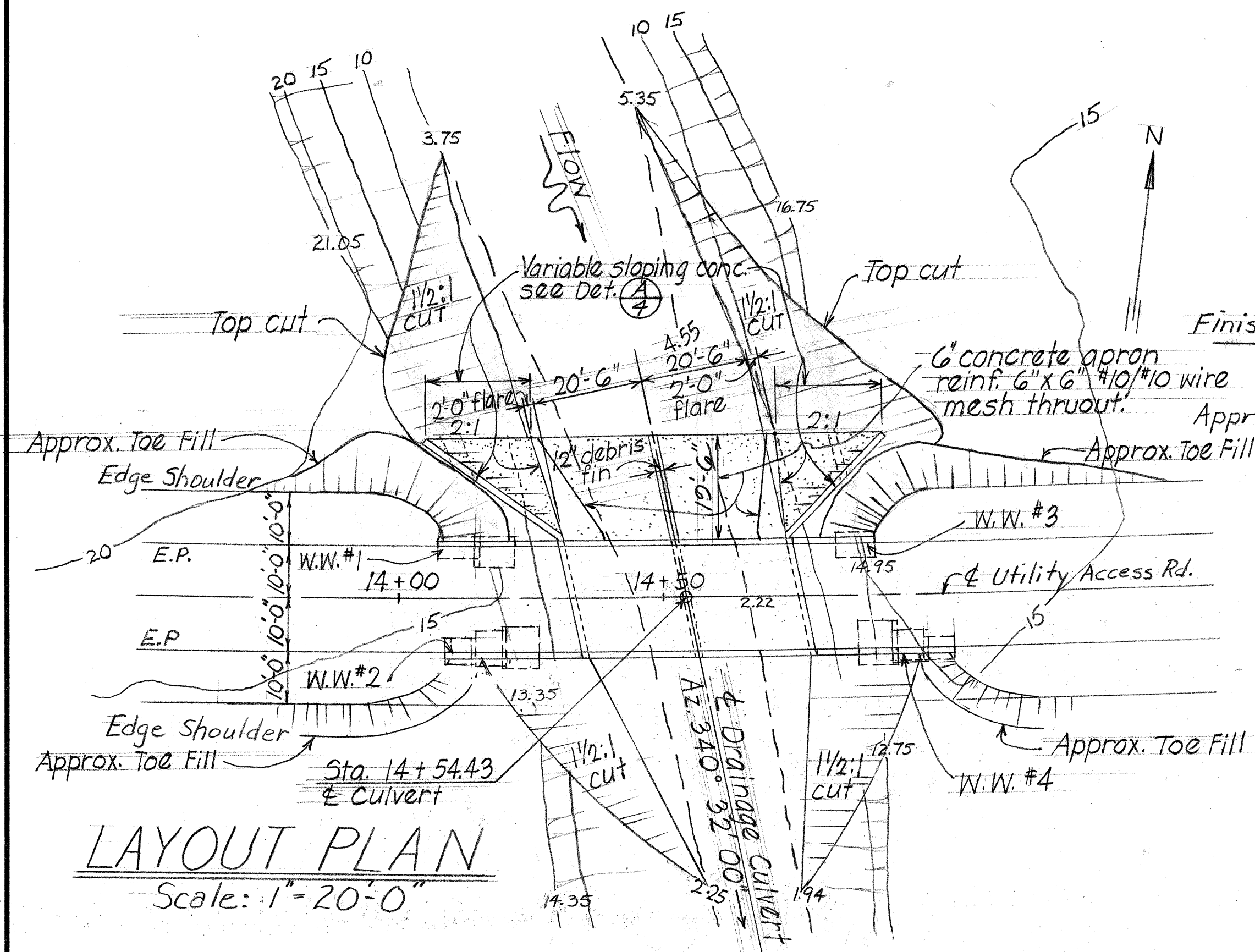


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(68):10	1969	90	91



ESTIMATED QUANTITIES	
Class A-1 conc.	283 C.Y.
Reinforcing Steel	45000 LB.
Struct. Exc.	220 C.Y.
Filter Material	20 C.Y.
Channel Excavation	1165 C.Y.

NOTES:
For Retaining Wall Type T-1 refer
to Standard Details Sht. #55, #56

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

2 CELL BOX CULVERT
UTILITY ACCESS ROAD
STA. 4 + 54.43

FAI PROJ. NO. I-HI-1 (G8): 10
Scale: As Shown Jan. 1969

SHEET No. 1 OF 4 SHEETS

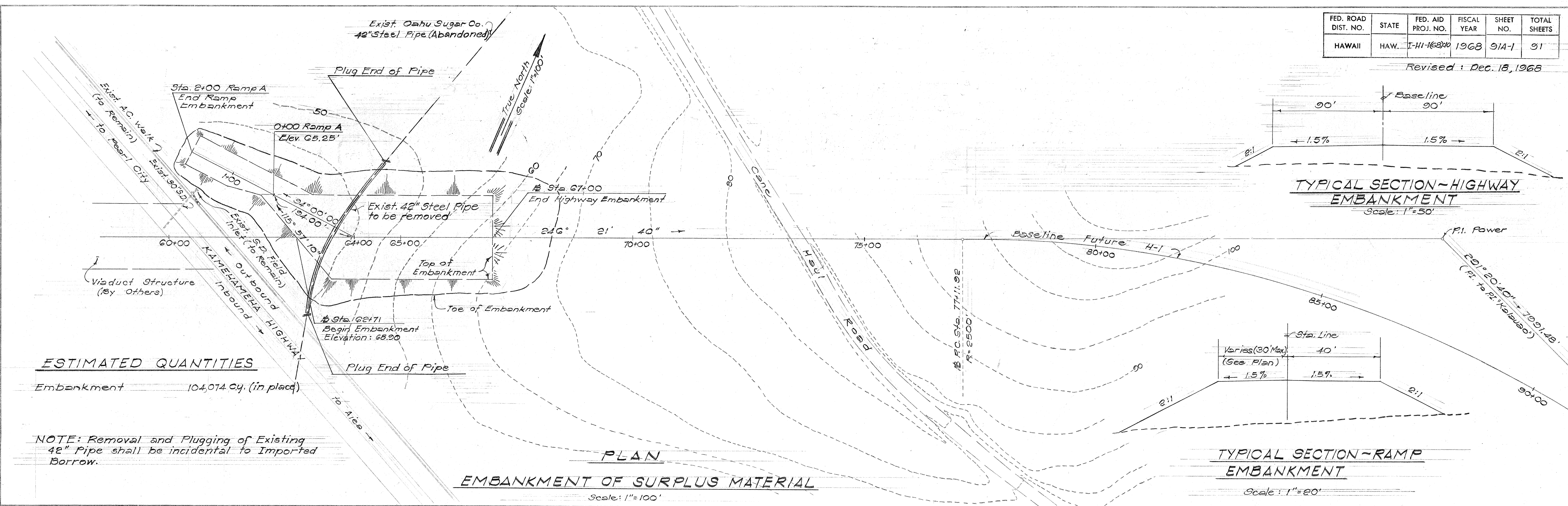
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1-68-10	1968	91A-1	91

Revised: Dec. 18, 1968

PLAN	DATE	BY	DATE	BY
SURVEYED				
NOTED				
GRADES CHECKED				
STRUCTURE NOTATIONS CHECKED				
NO.				

PROFILE	DATE	BY	DATE	BY
SURVEYED				
NOTED				
GRADES CHECKED				
STRUCTURE NOTATIONS CHECKED				
NO.				



ESTIMATED QUANTITIES

Embankment 104,074 Cy. (in place)

NOTE: Removal and Plugging of Existing 42" Pipe shall be incidental to Imported Borrow.

PLAN EMBANKMENT OF SURPLUS MATERIAL

Scale: 1"=100'

TYPICAL SECTION-RAMP EMBANKMENT

Scale: 1"=20'

NOTES - Surplus Disposal Site

1. The loading, hauling, unloading and embankment of surplus material will not be paid for directly but will be considered as included in the unit price for Imported Borrow.
2. Embankment areas shall be cleared and grubbed in accordance with the requirements of Section 12, "Clearing and Grubbing" of the Standard Specifications, prior to embankment operations. (Incidental to Imported Borrow.)
3. Embankment operations shall be done in accordance with Section 13, "Embankment" of the Specifications.
4. No rocks or boulders larger than 0.33 ft. in greatest dimension will be permitted in the portion of the embankment between baseline stations 62+67 and 63+50.
5. For compaction purposes, the top of embankment as shown shall be considered as being more than 3' below the future finished roadway surfaces.

PROFILE - HIGHWAY EMBANKMENT

Scale: Horizontal 1"=100'
Vertical 1"=10'

PROFILE - RAMP A EMBANKMENT

Scale: Horizontal 1"=100'
Vertical 1"=10'



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SURPLUS DISPOSAL SITE

INTERSTATE ROUTE H-1
PROJ. NO. I-HI-1-68-10

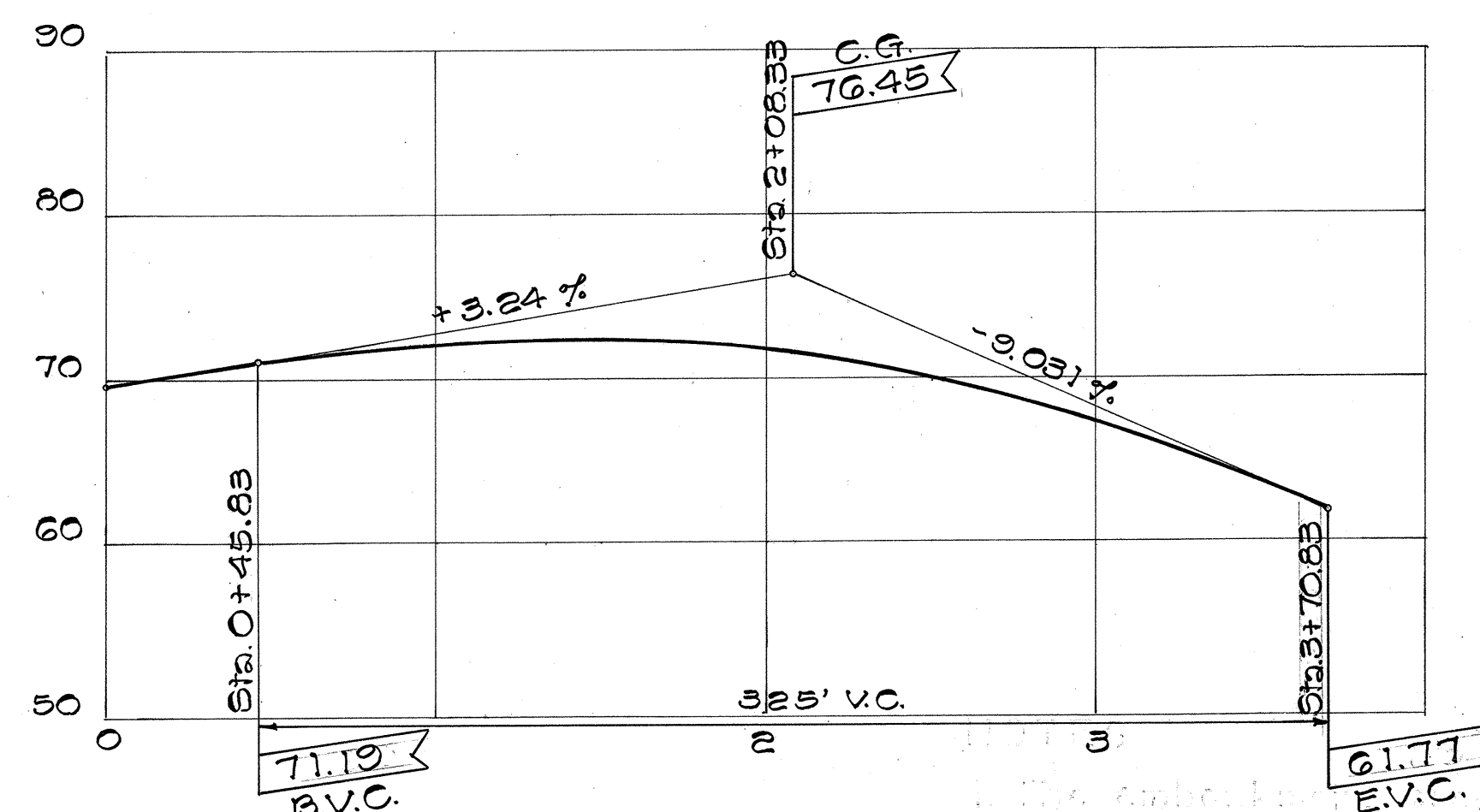
Scale: As Shown Date: Jan. 1969

SHEET No. 1 OF 1 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(68):10	1969		

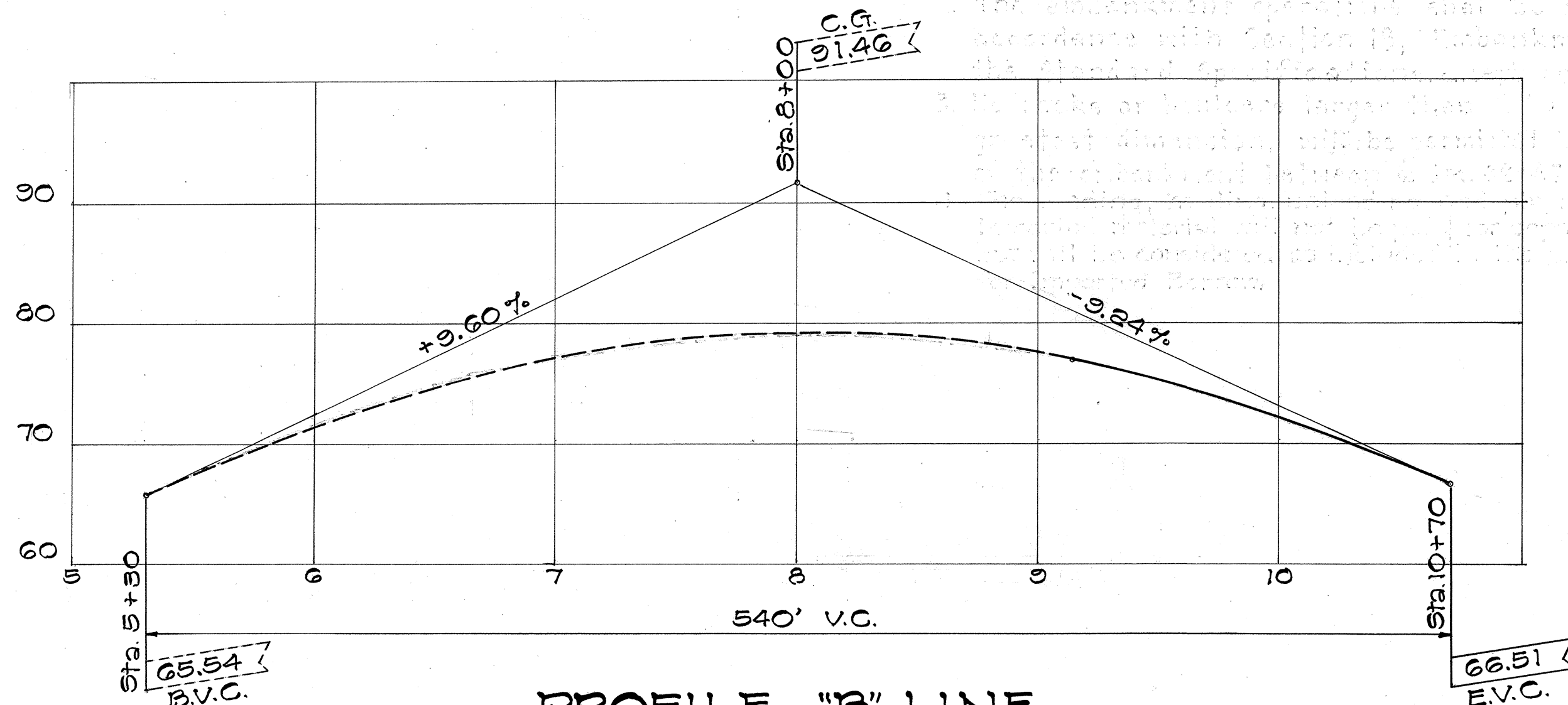
NOTE:

1. The Embankment areas shall be cleared and grubbed in accordance with the requirements of Section 18, "Clearing and Grubbing", of the Standard Specifications, prior to embankment operations. (Incidental to Imported Borrow)
2. The embankment operations shall be done in accordance with Section 18, "Embankment", of the Standard Specifications, except as noted below.
3. No rocks or boulders larger than 0.33 ft. in greatest dimension, will be permitted in the portion of embankment between Sta. 62+67 and 63+50.
4. The loading, hauling, unloading and placing of imported material will not be paid for separately, but will be considered as included in the unit price for Imported Borrow.



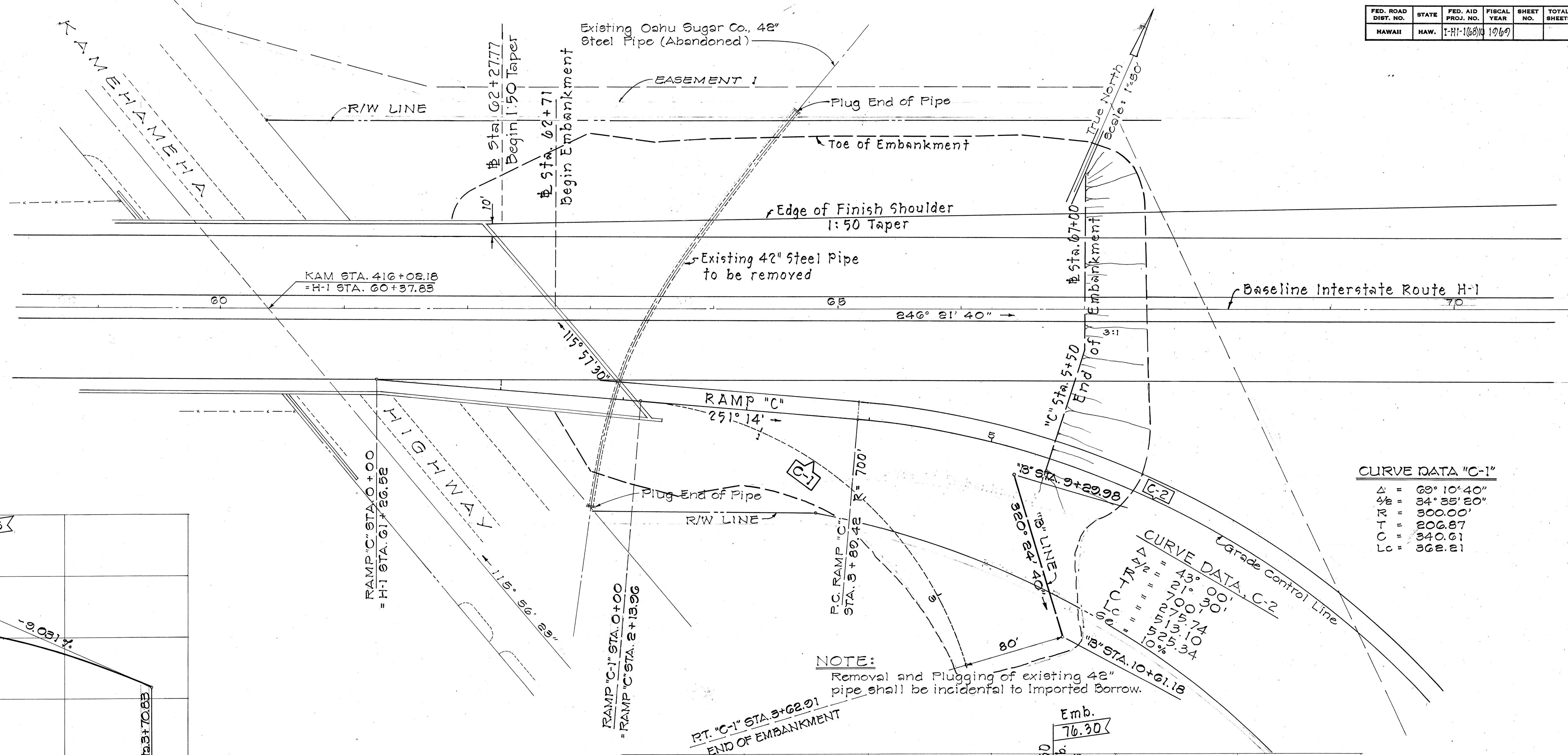
PROFILE "C-1"

SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



PROFILE "B" LINE

SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



CURVE DATA "C-1"

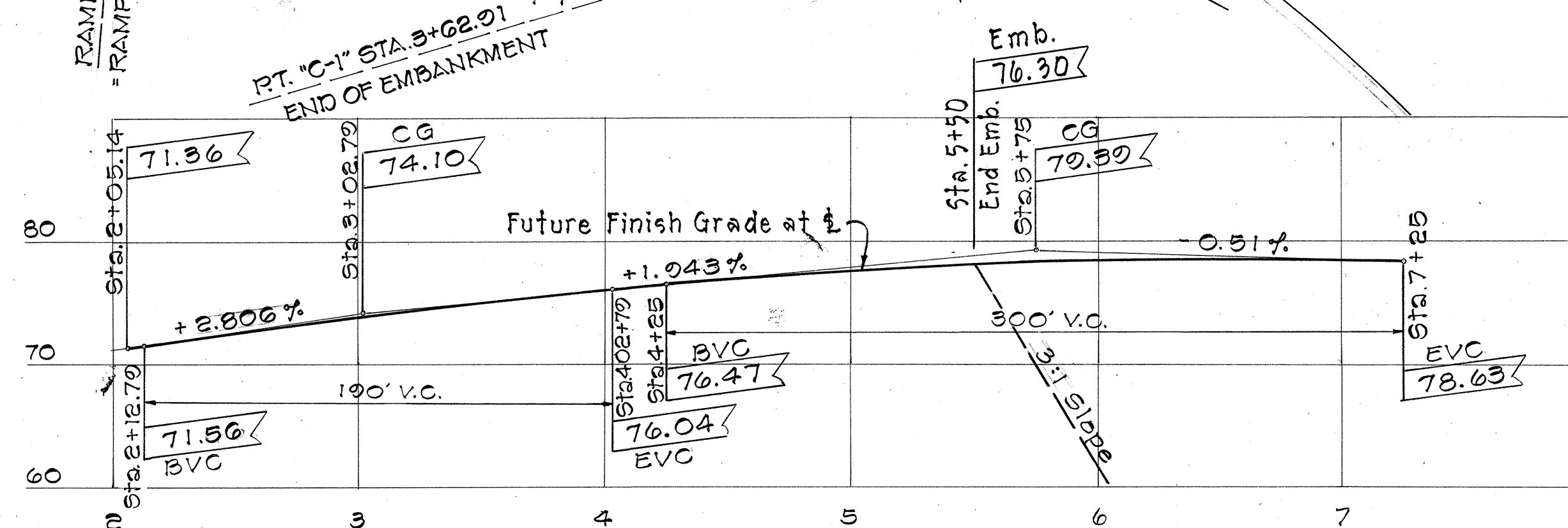
Δ	=	69° 10' 40"
$\Delta/2$	=	34° 35' 20"
R	=	300.00'
T	=	206.87'
C	=	340.61'
L_c	=	368.21'

CURVE DATA "C-2"

Δ	=	43° 00' 00"
$\Delta/2$	=	21° 30' 00"
R	=	170.00'
T	=	113.74'
C	=	102.534'
L_c	=	102.534'

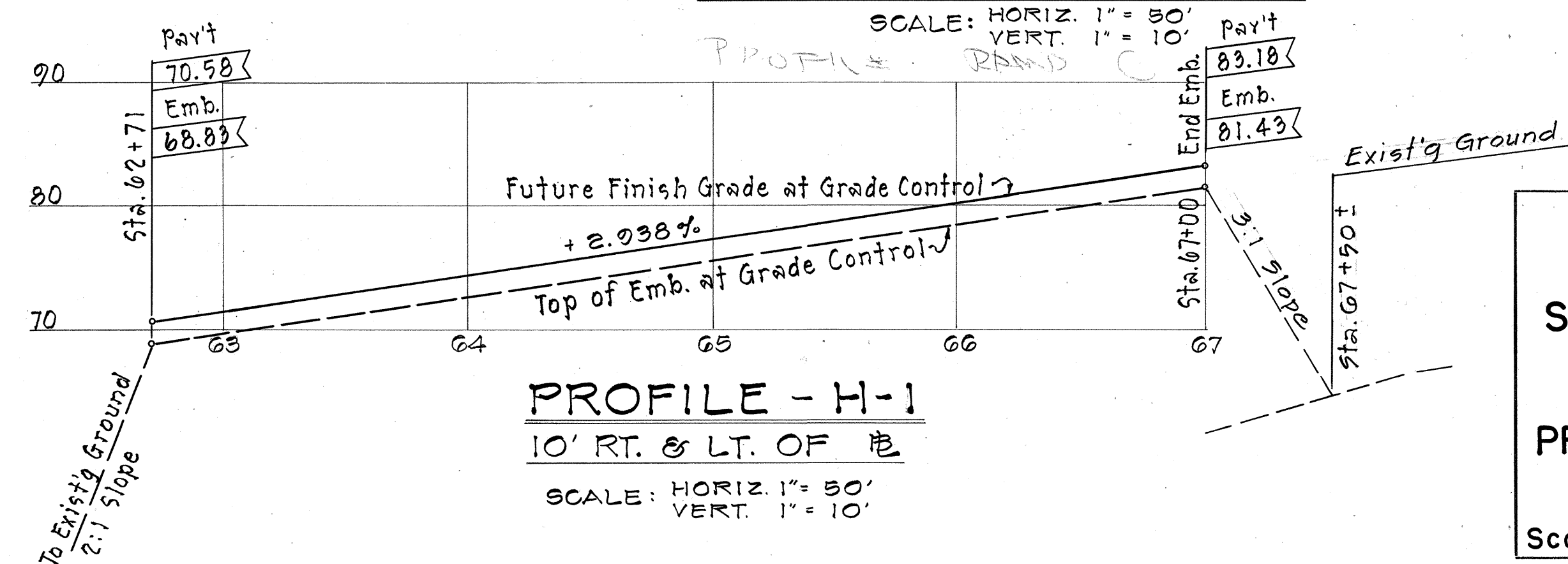
NOTE:

Removal and Plugging of existing 42" pipe shall be incidental to Imported Borrow.



PROFILE - RAMP "C"

SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



PROFILE - H-1

10' RT. & LT. OF E

SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SURPLUS DISPOSAL SITE
INTERSTATE ROUTE H-1

PROJECT NO. I-HI-1(68):10

Scale As Noted April, 1969

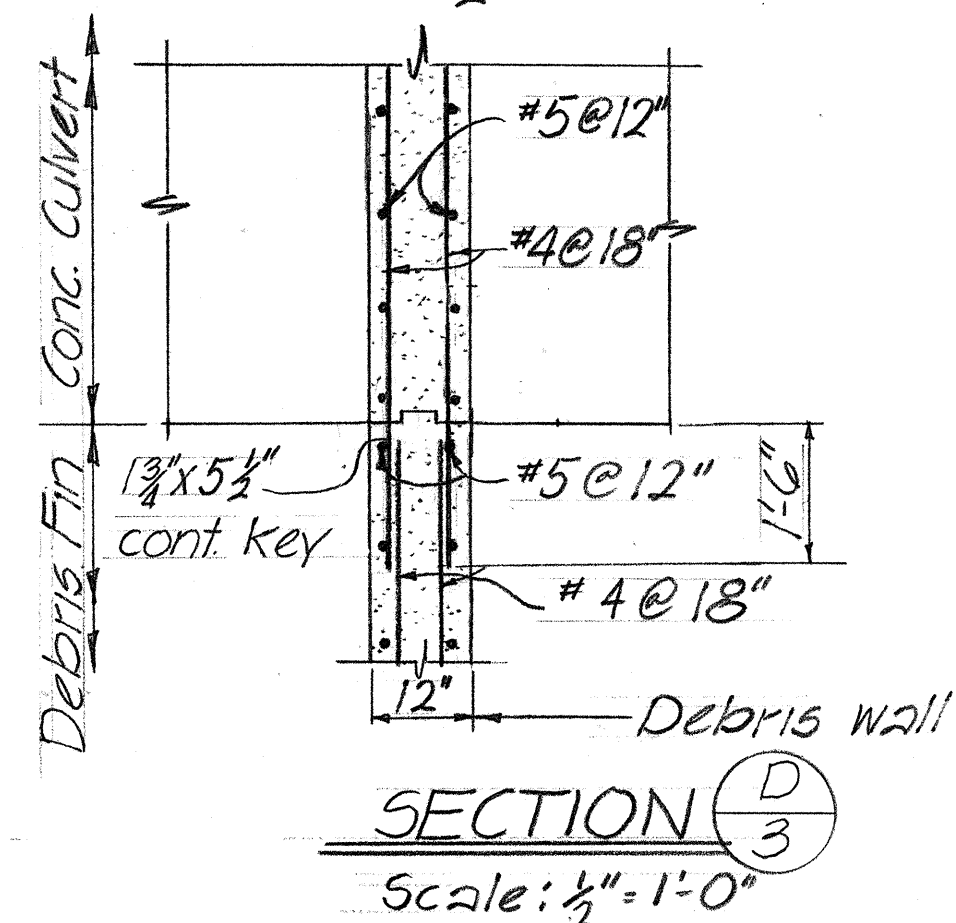
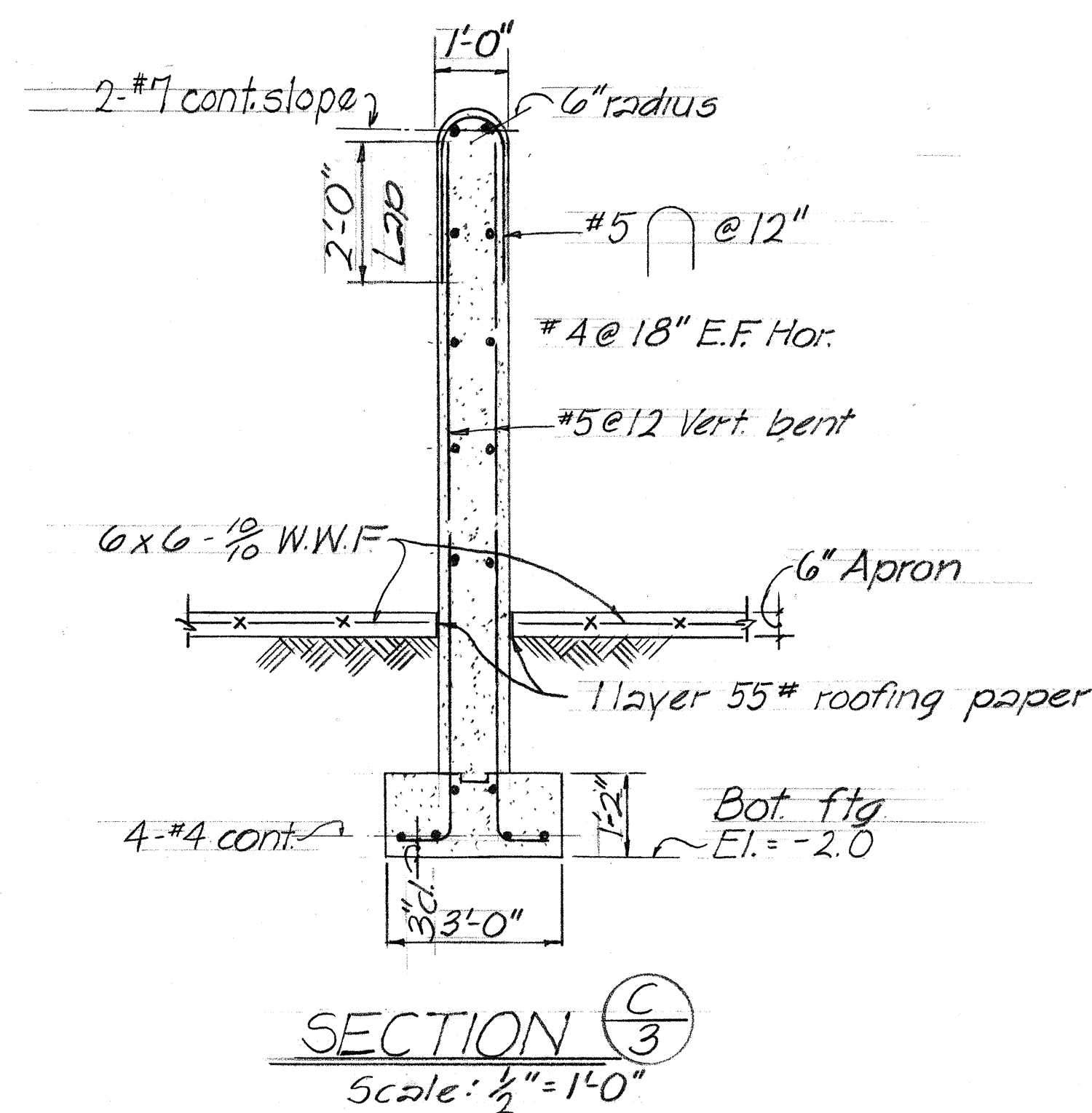
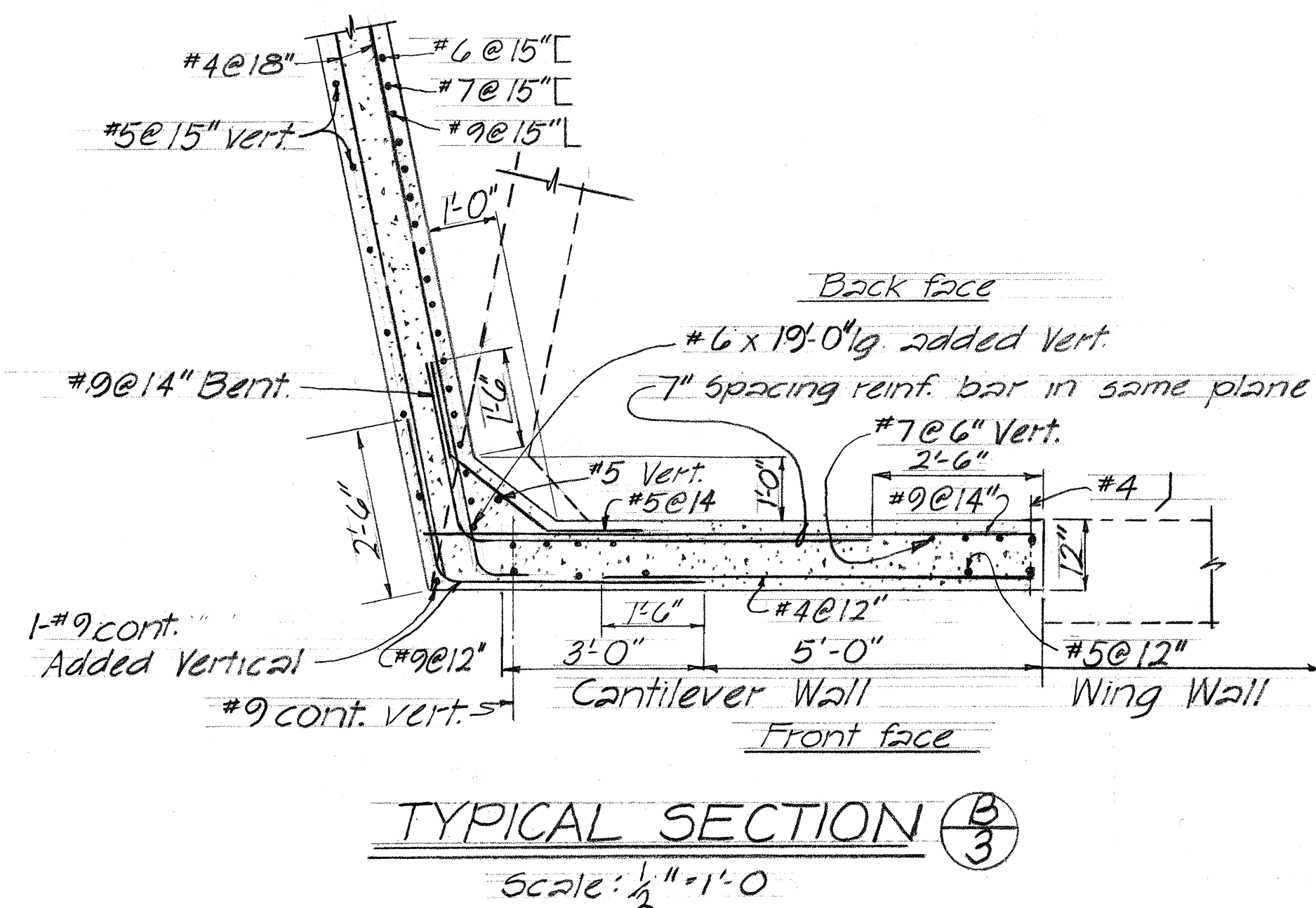
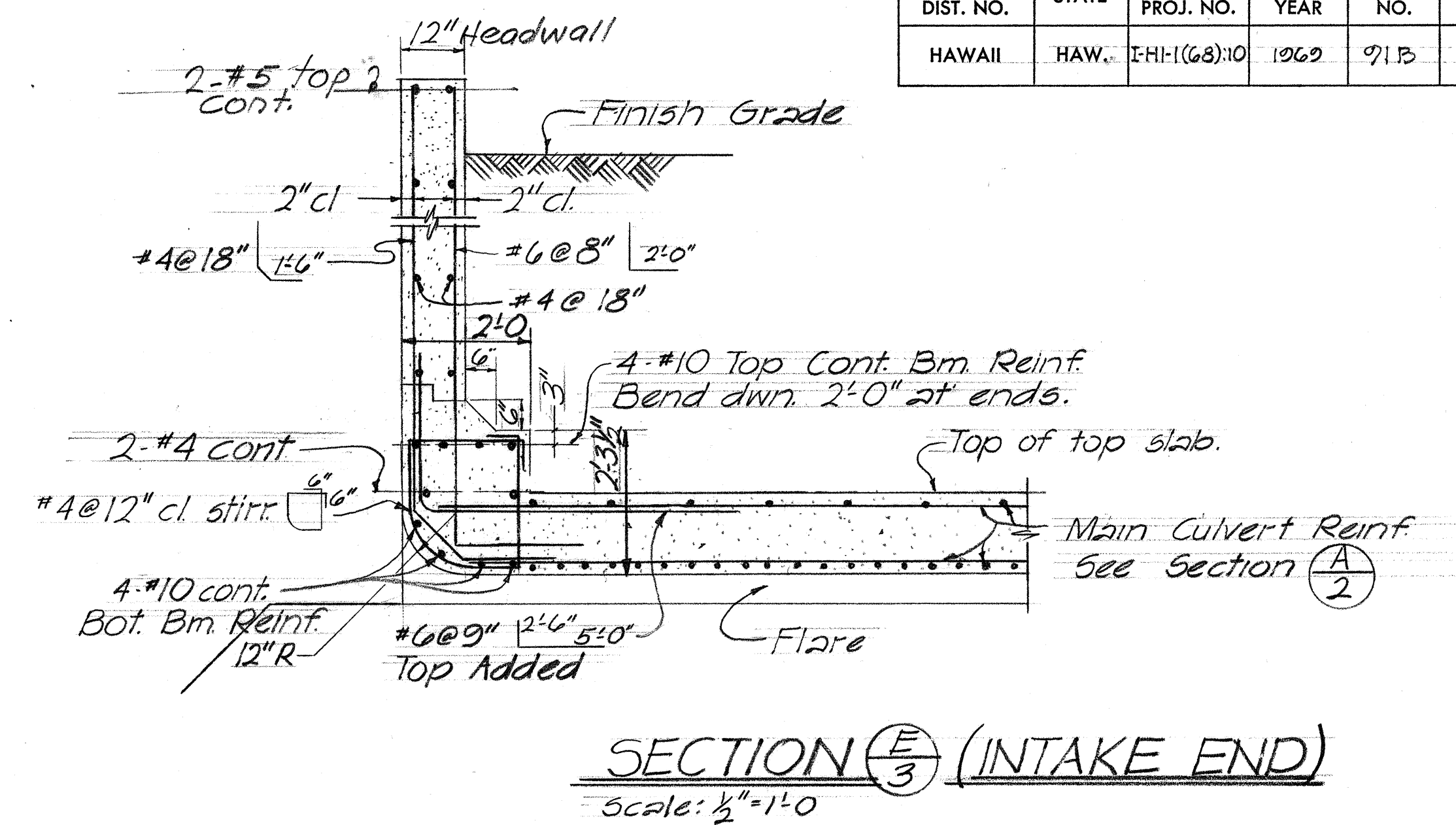
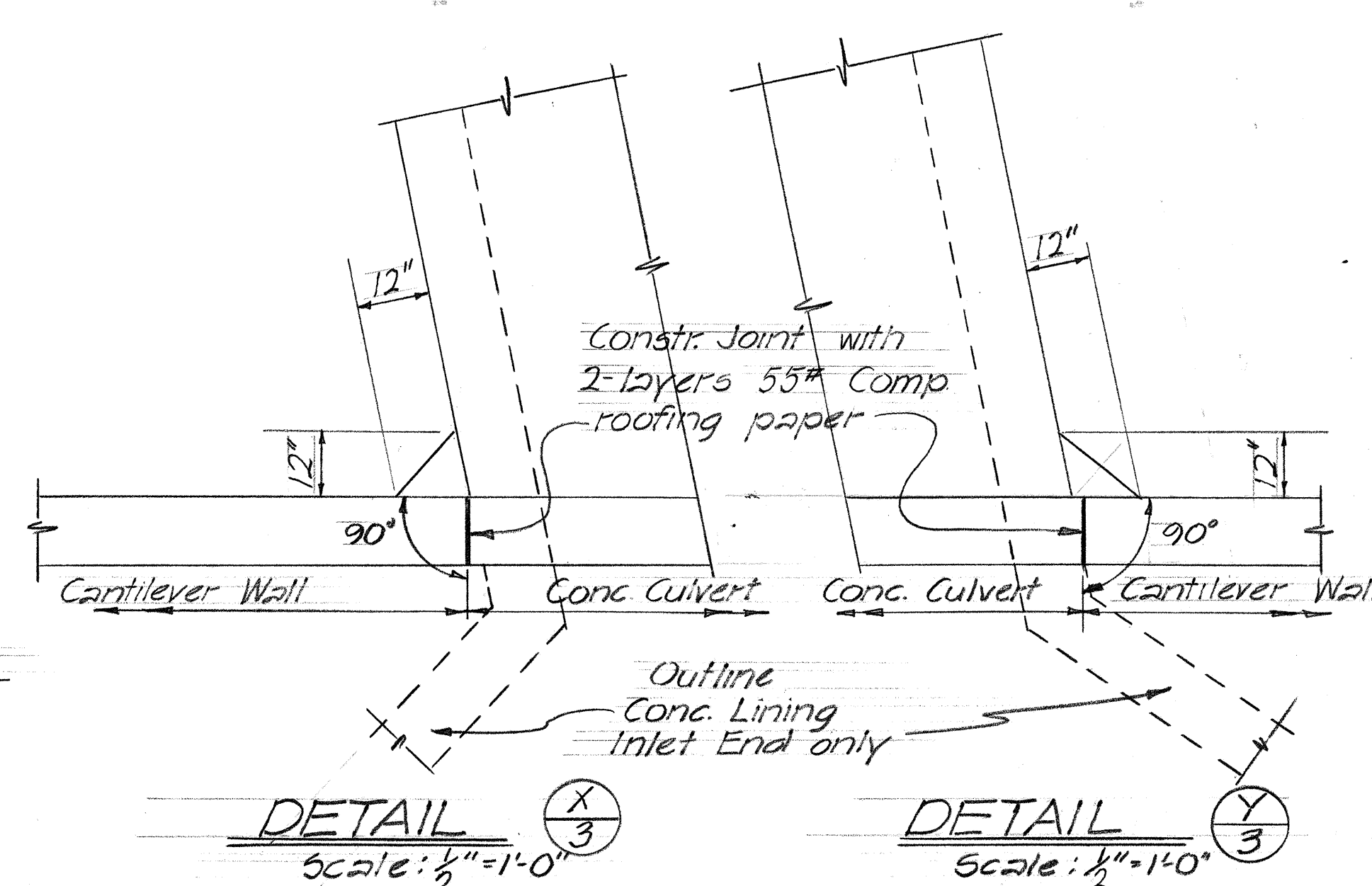
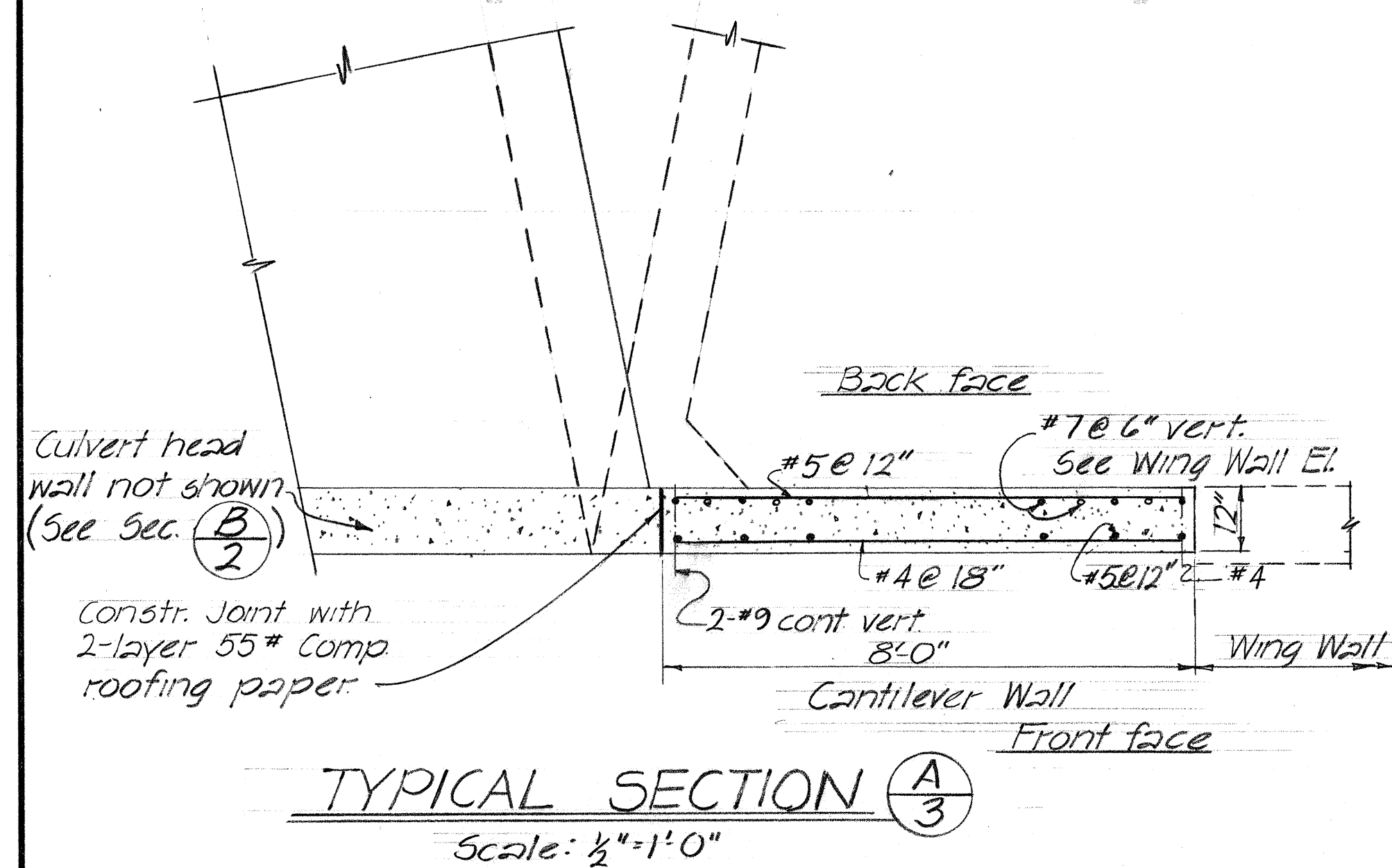
SHEET NO. 1 OF 3 SHEETS

CHANGE ORDER

MAY, 1969

911A1R

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HA-1(68)10	1969	713	71

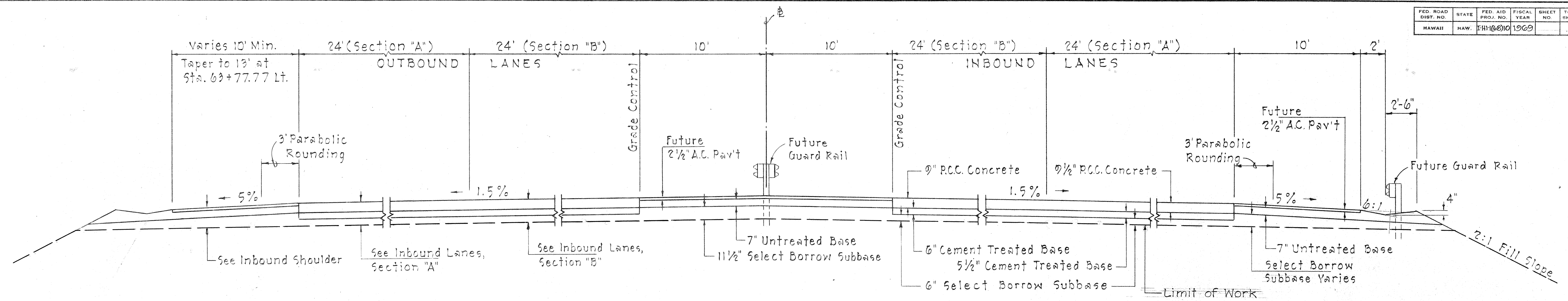


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

2 CELL BOX CULVERT
UTILITY ACCESS ROAD
STA. 4+54.43
FAL. PROJ. N^o I-HI-1(68):10
SCALE: AS SHOWN JAN 1969

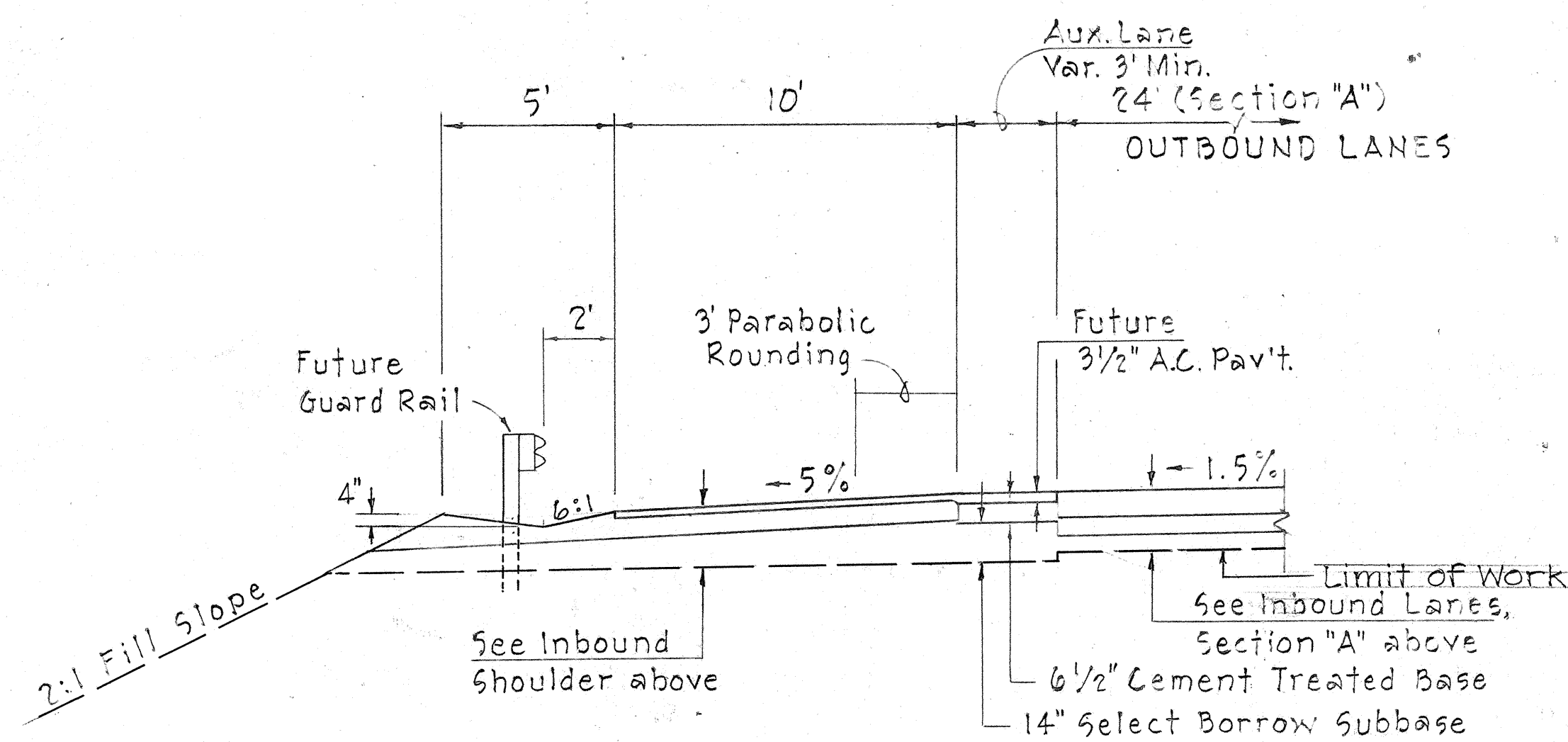
ADD. 9113

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HI-1(68)10	1969		



TYPICAL SECTION - INTERSTATE ROUTE H-1

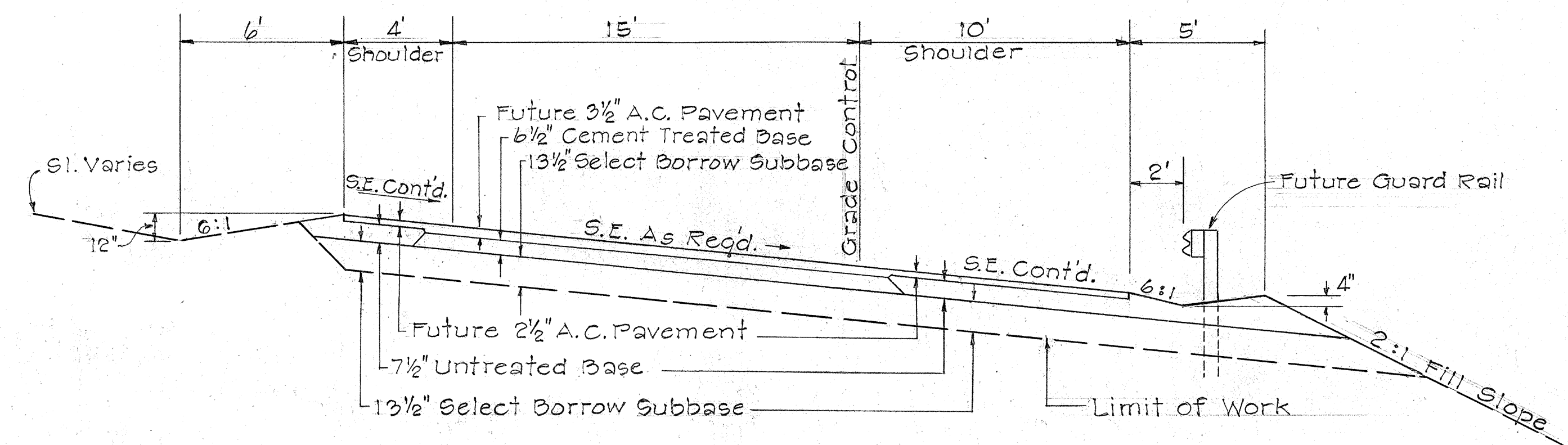
Scale: 1/4" = 1'-0"



TYPICAL SECTION

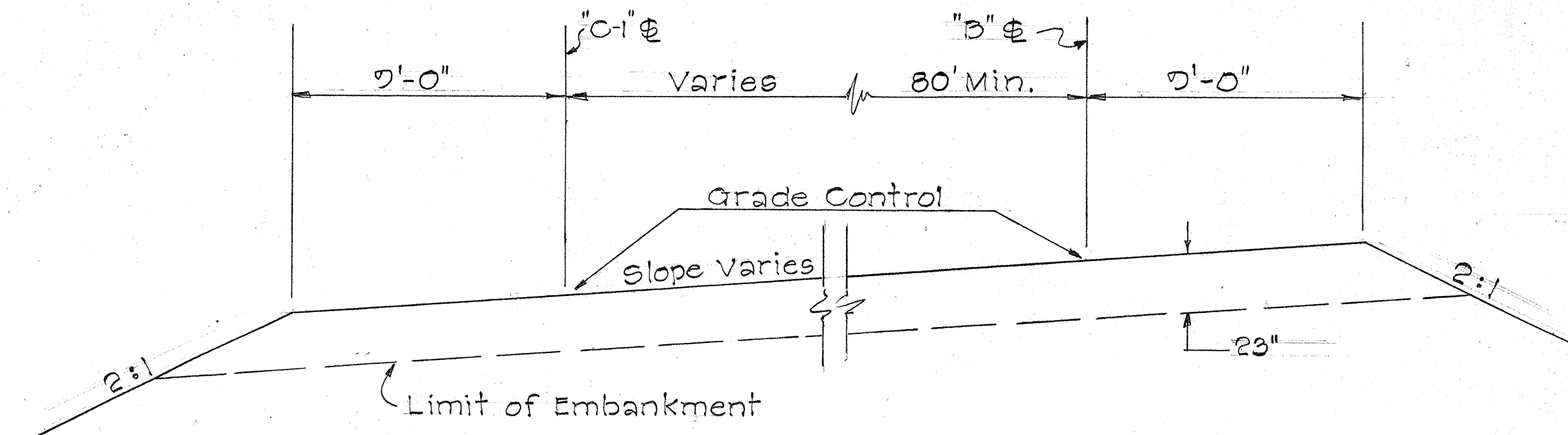
H-1 @ STA. 63+77.77 To 67+00 Lt.

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



TYPICAL SECTION RAMP "C"

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



TYPICAL SECTION - Embankment For Temporary Connection

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

Note: The work under this change order shall be limited to the construction of embankment to the bottom of subbase course only.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS

INTERSTATE ROUTE H-1
PROJ. NO. I-HI-1(68)10

SCALE: As Noted

DATE: April, 1969

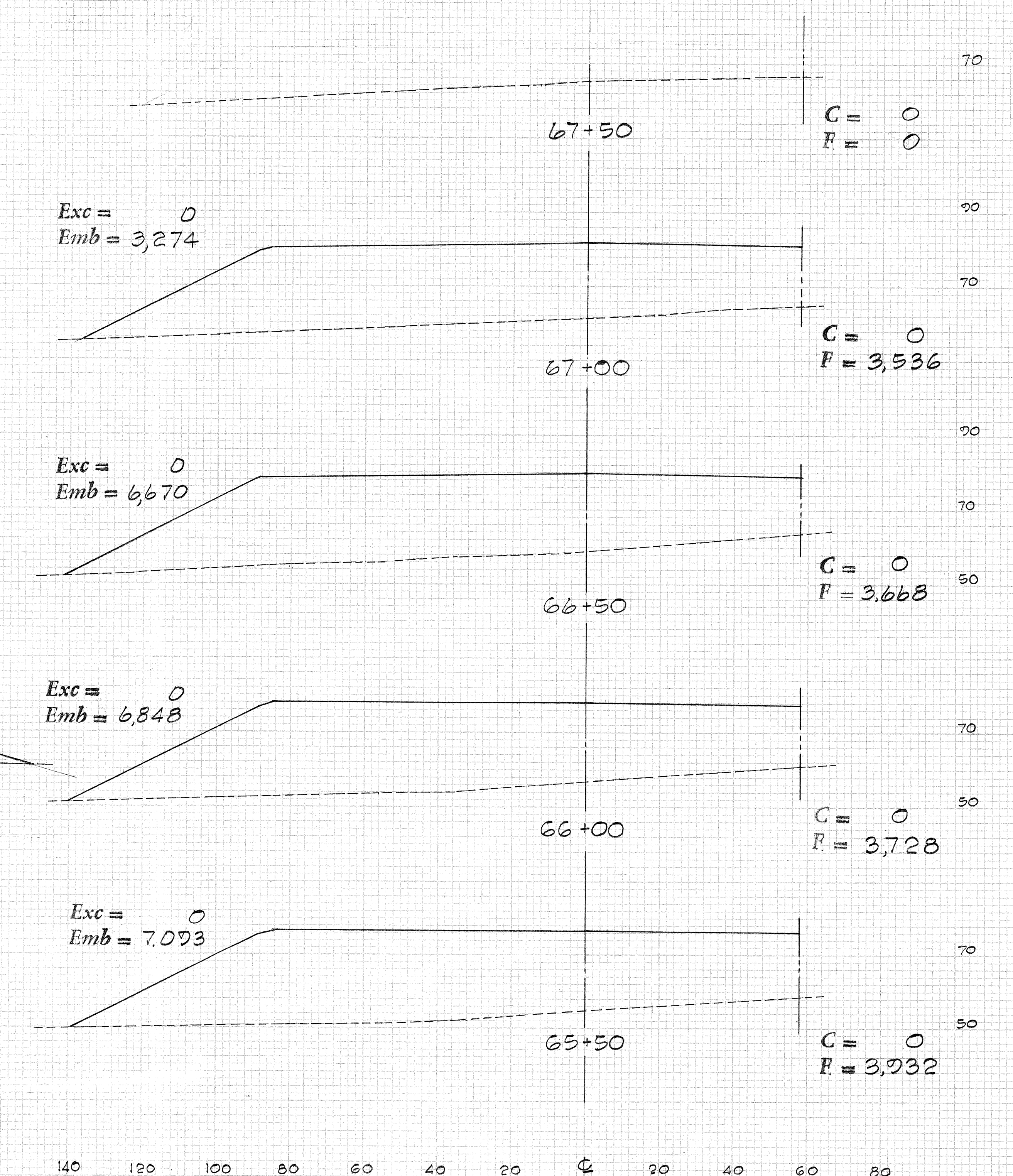
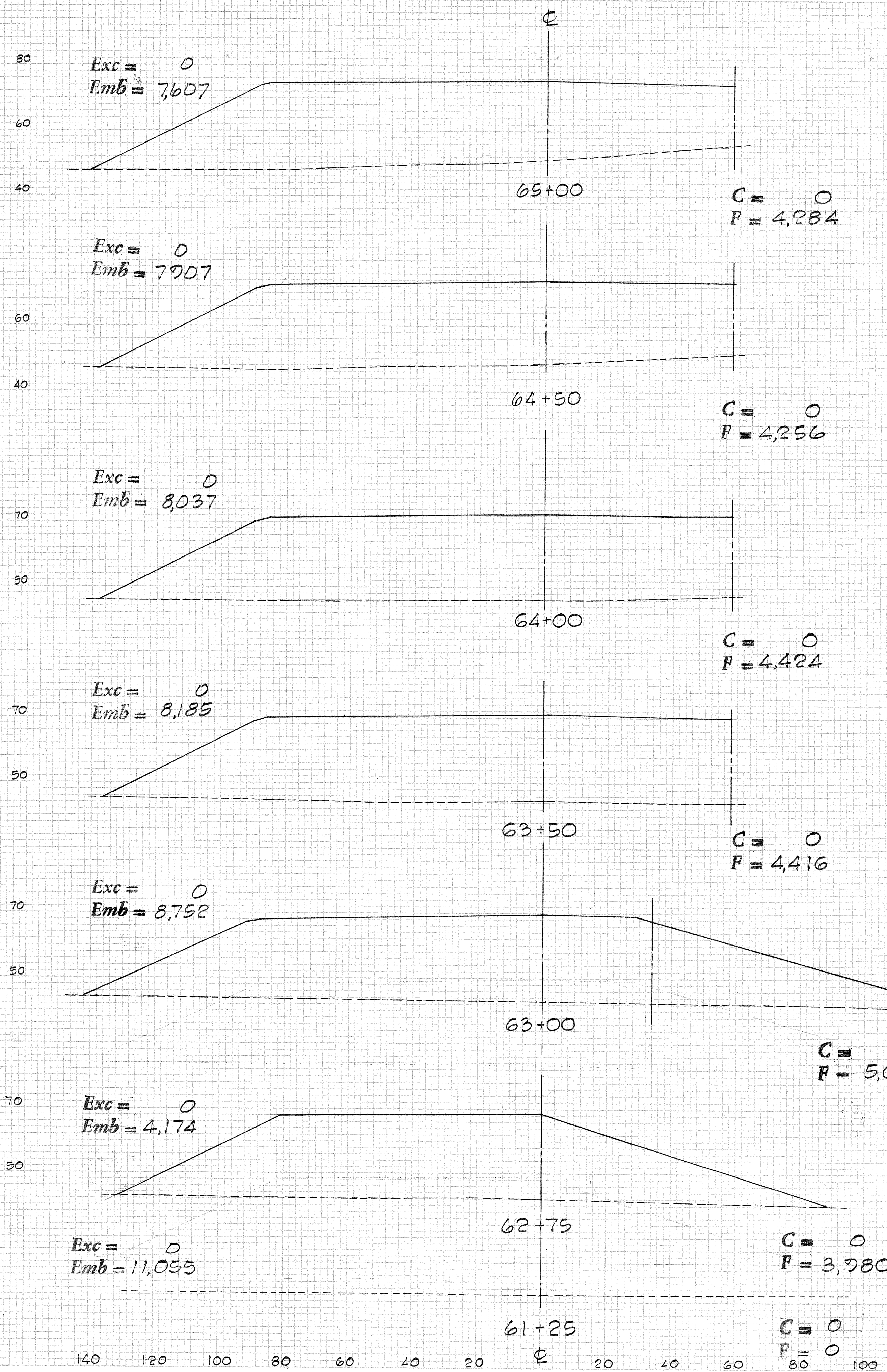
SHEET No. 2 OF 9 SHEETS

CHANGE ORDER MAY, 1969

911BR

DESIGNED BY	DATE
CHECKED BY	
NOTED BY	
APPROVED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HI-11(18)10	1969		

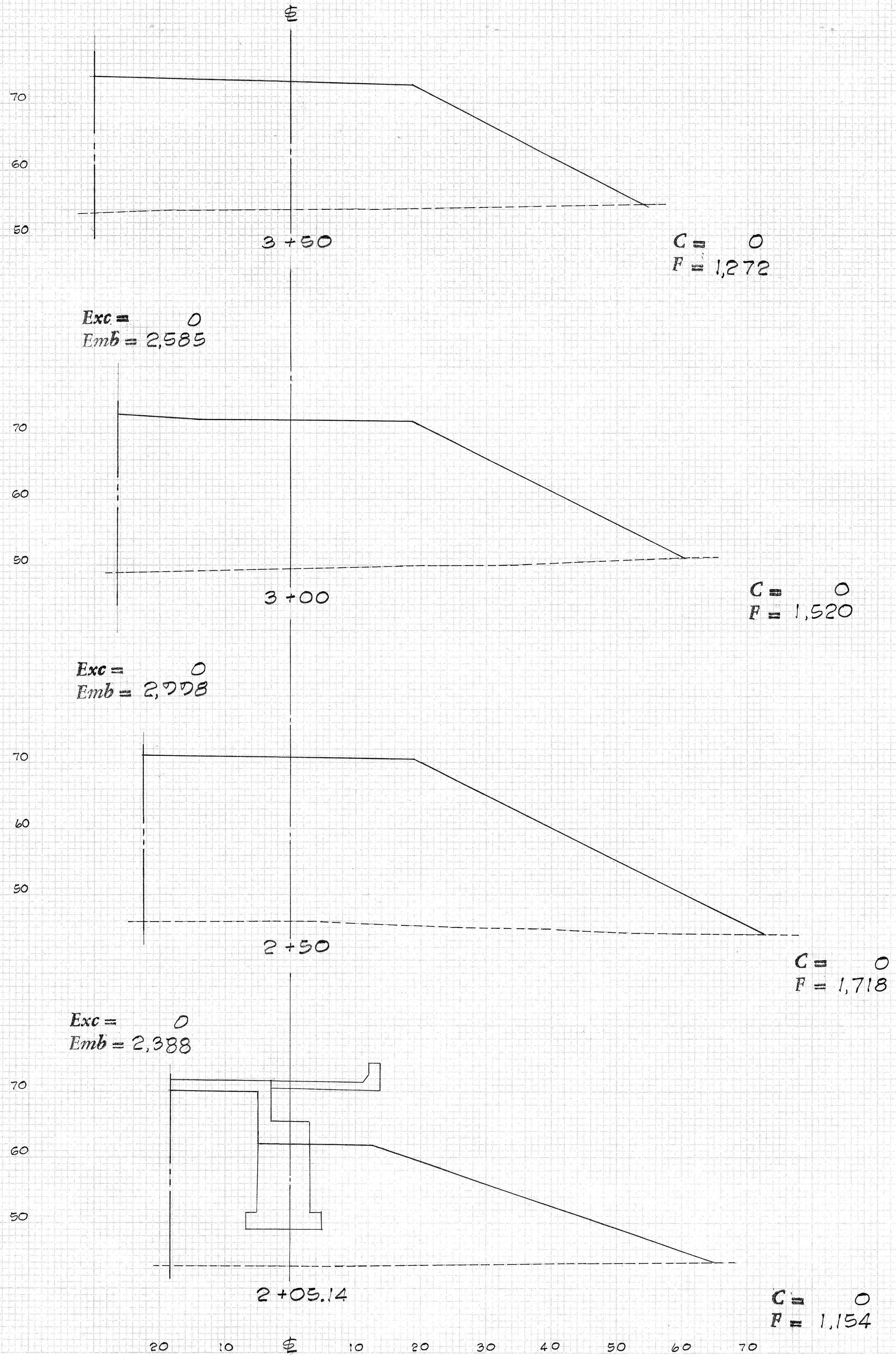


DATE	BY	REVIEWED	DATE

DATE	BY	REVIEWED	DATE

PLATE 3-CROSS SECTION, F.A.S. CLEARPRINT MARCH 20, 1969

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HI-1(68)-10	1969		



RAMP "C"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1111(68)10	1969		

Exc = 0
Emb = 1795

Exc = 0
Emb = 1197

Exc = 0
Emb = 508

Exc = 0
Emb = 83

2+00

C = 0
F = 834

Exc = 0
Emb = 34

"B" § 10+61.18

Exc = 0
Emb = 1355

"B" § 9+81.43

Exc = 0
Emb = 1858

C = 0
F = 90

"B" § 9+12.03

C = 0
F = 0

3+69

C = 0
F = 0

3+62.21

C = 0
F = 274

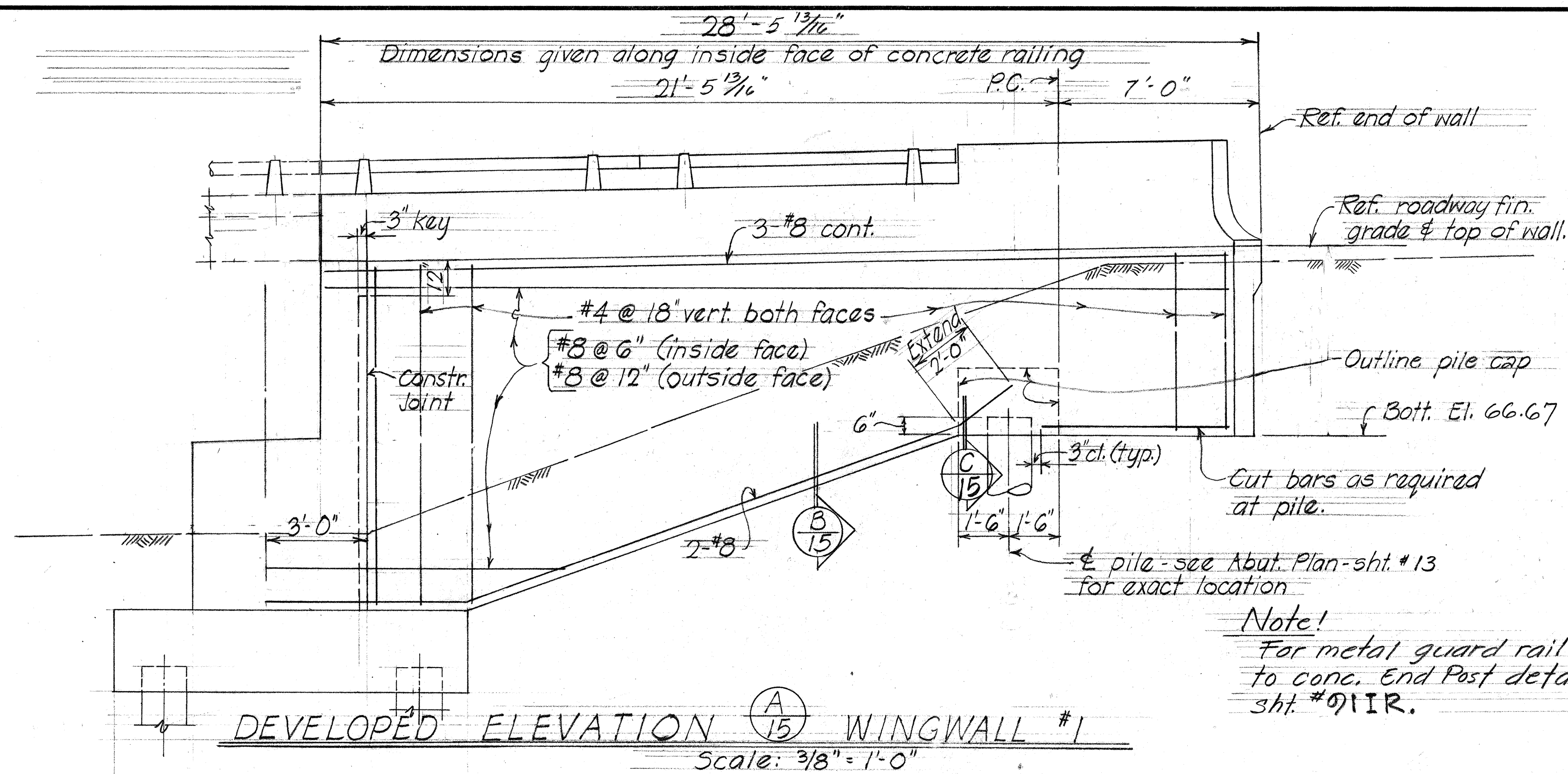
3+00

C = 0
F = 903

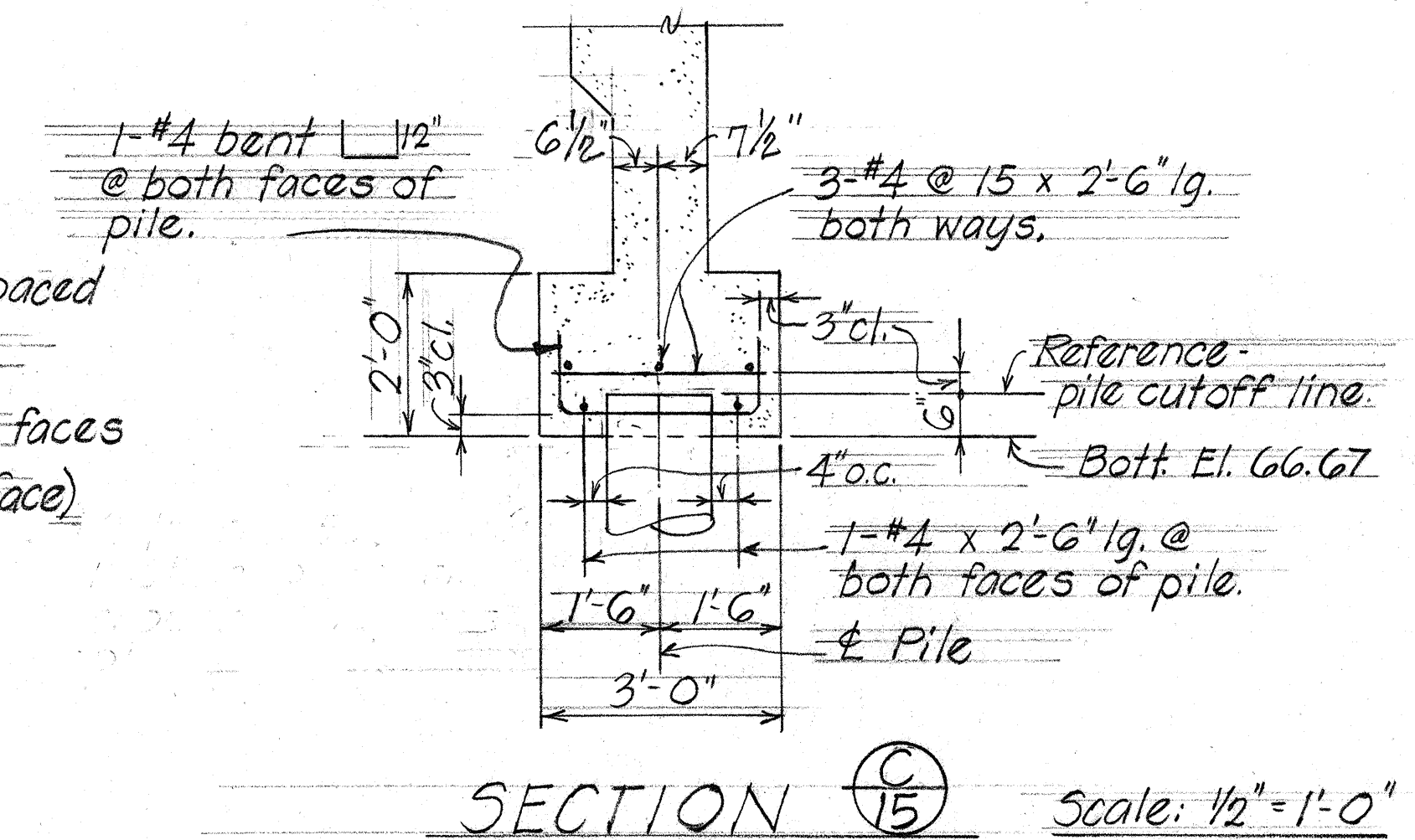
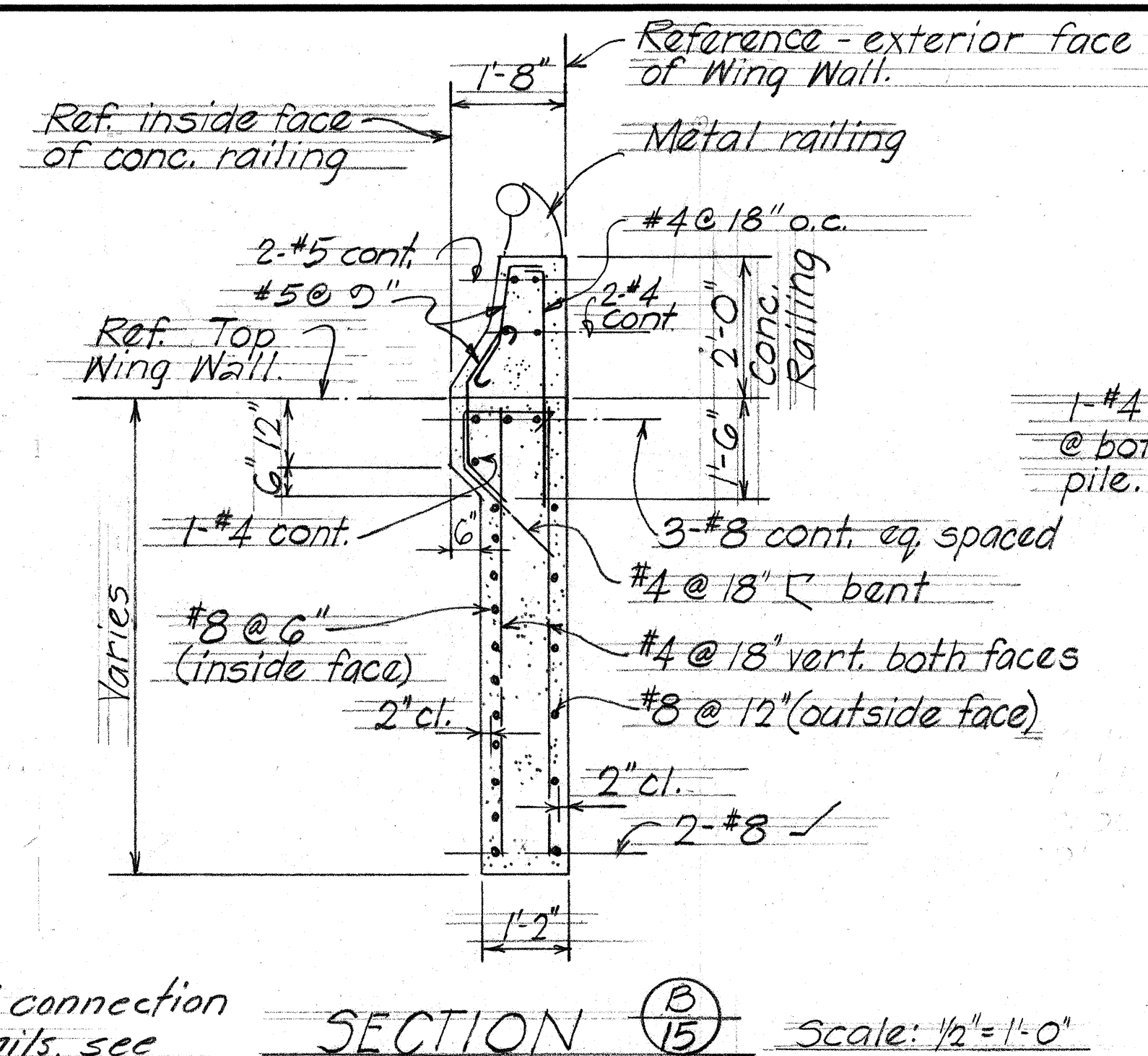
2+50

C = 0
F = 1104

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(68)10	1969	1	1



Note!
For metal guard rail connection
to conc. End Post details, see
sht. #911R.



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

PRINTED ON NO. 1000H CLEARPRINT

CHANGE ORDER MAY, 1969 SHEET No. 6 OF 9 SHEETS

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PEARL CITY VIADUCT

ABUTMENT N° 2- SECTIONS & DETAILS

INTERSTATE ROUTE H-1
F.A.I. Proj. No. I-H-1(68):10
Scale As Noted July 1968

SHEET No. 6 OF 9 SHEETS

SHEET No. 6 OF 9 SHEETS

CHANGE ORDER MAY, 1969 SHEET No. 6 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(68):10	1969		

Note:
For metal guard rail connection to conc. End Post details, see sh. # 01IR

Ref. Top of Wing wall & finish Interstate roadway grade.

#4 @ 18" both faces. See "sect. (H) 40A" for treatment of bars.

Both El. 61.0

Pile. See "Part Plan 'A'" for location & Pile Tip Elevation.

Top of Abut. ftg. & both of Wing wall.

WING WALL N° 2 ELEVATION

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

Ref. front face of conc. barrier.

Ref. Edge of structure line.

Ref. front face of conc. barrier.

Ref. Edge of structure line.

Ref. Top of Wing wall & Finish Interstate roadway grade.

For additional reinf. information, see "sect. (H) 40A"

3-#4 @ 15" x 2'-6" long bothways.

1-#4 bent @ 4 sides of pile.

4" o.c.

1'-6"

1'-6"

3'-0"

Pile

2'-8" bent

2" cl.

2" cl.

1'-2"

SECTION (G) 40A

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

SECTION (H) 40A

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

CURVE DATA

$\Delta = 40^{\circ}06'25"$

R = 10.0'

Lc = 7.0'

End of Wall

WING WALL #2

Type I Prestressed Conc. Pile. @ Sta. 62+24.05 o/s 69.04' from lb Pile Tip El. 0.00

Ref. Front face of Barrier

20'-0" Approach Slab
See sh. # 40B for details.

Abut. #2

5'-0" min Earth shelf

2:1 slope

PART PLAN "A"

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

Ref. Edge of O.B. structure

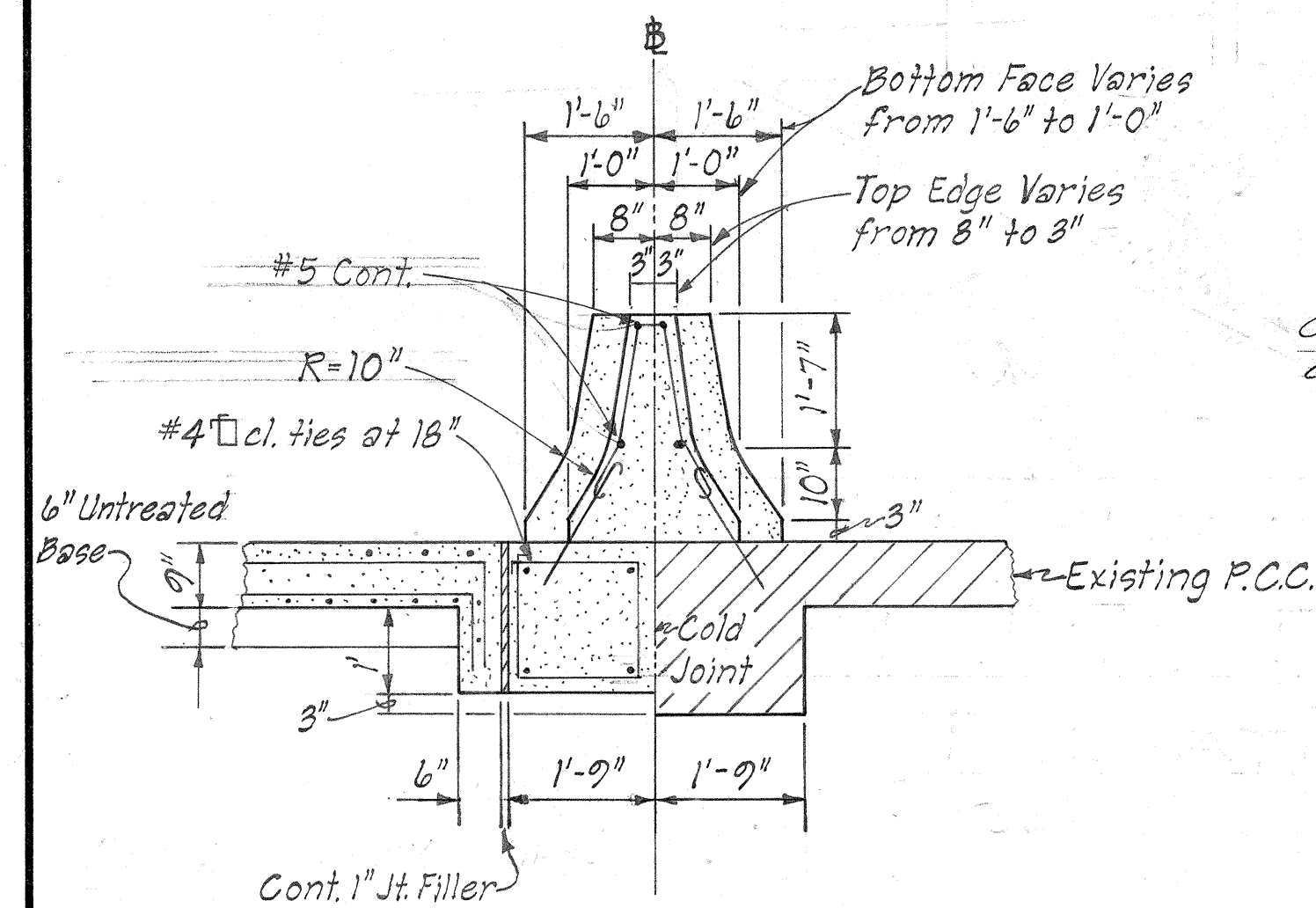
DATE	_____
DESIGNED BY	_____
DRAWN BY	_____
CHECKED BY	_____
NO.	_____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PEARL CITY VIADUCT
ABUTMENT N° 2 ~ W.W. #2 &
C.R.M. WALL DETAILS
INTERSTATE ROUTE H-1
F.A.I. Proj. No. I-HI-1(68):10
Scale As Noted Jan. 1969
SHEET No. 7 OF 9 SHEETS

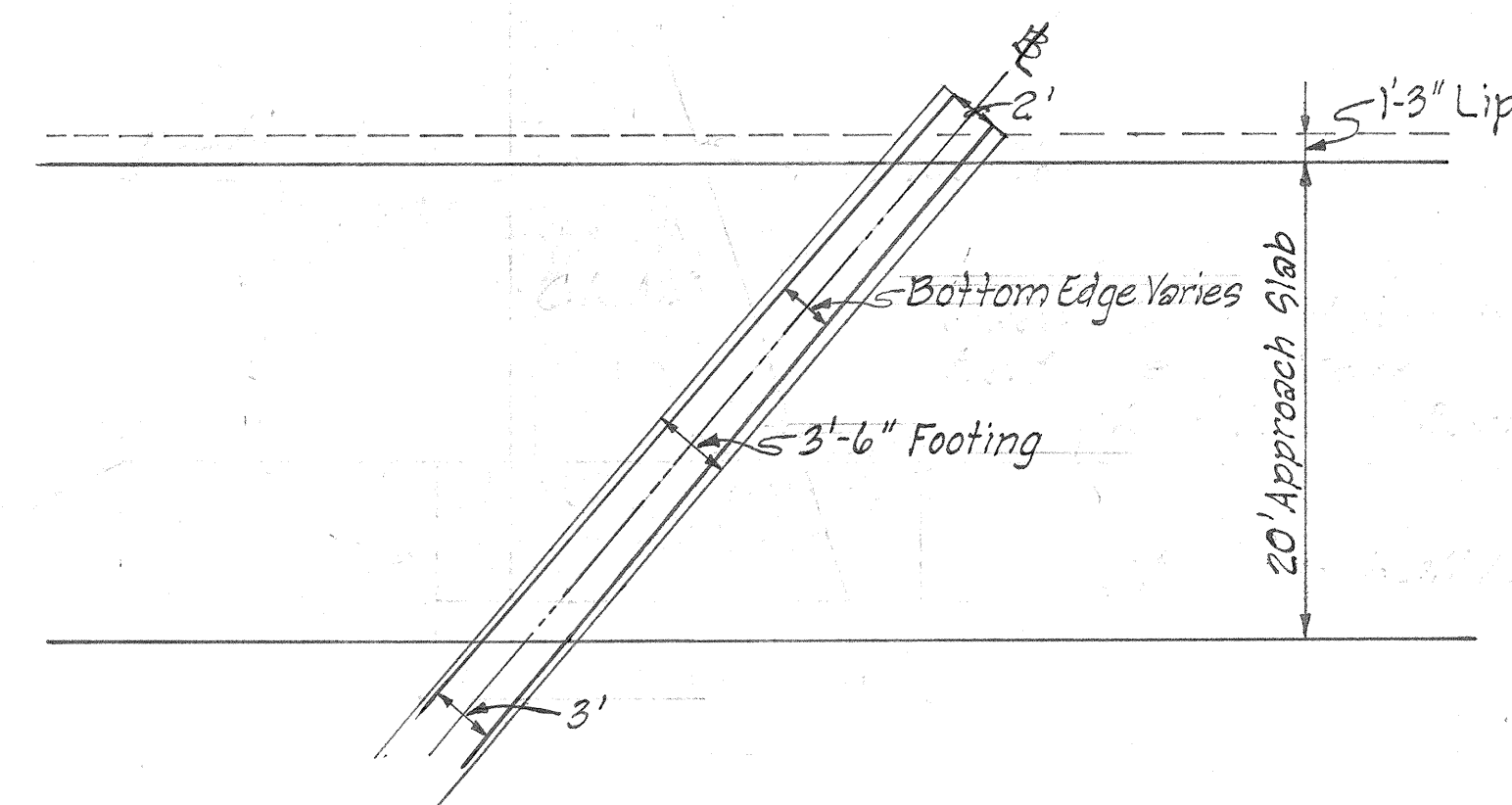
CHANGE ORDER MAY 1969 SHEET No. 7 OF 9 SHEETS

01IR

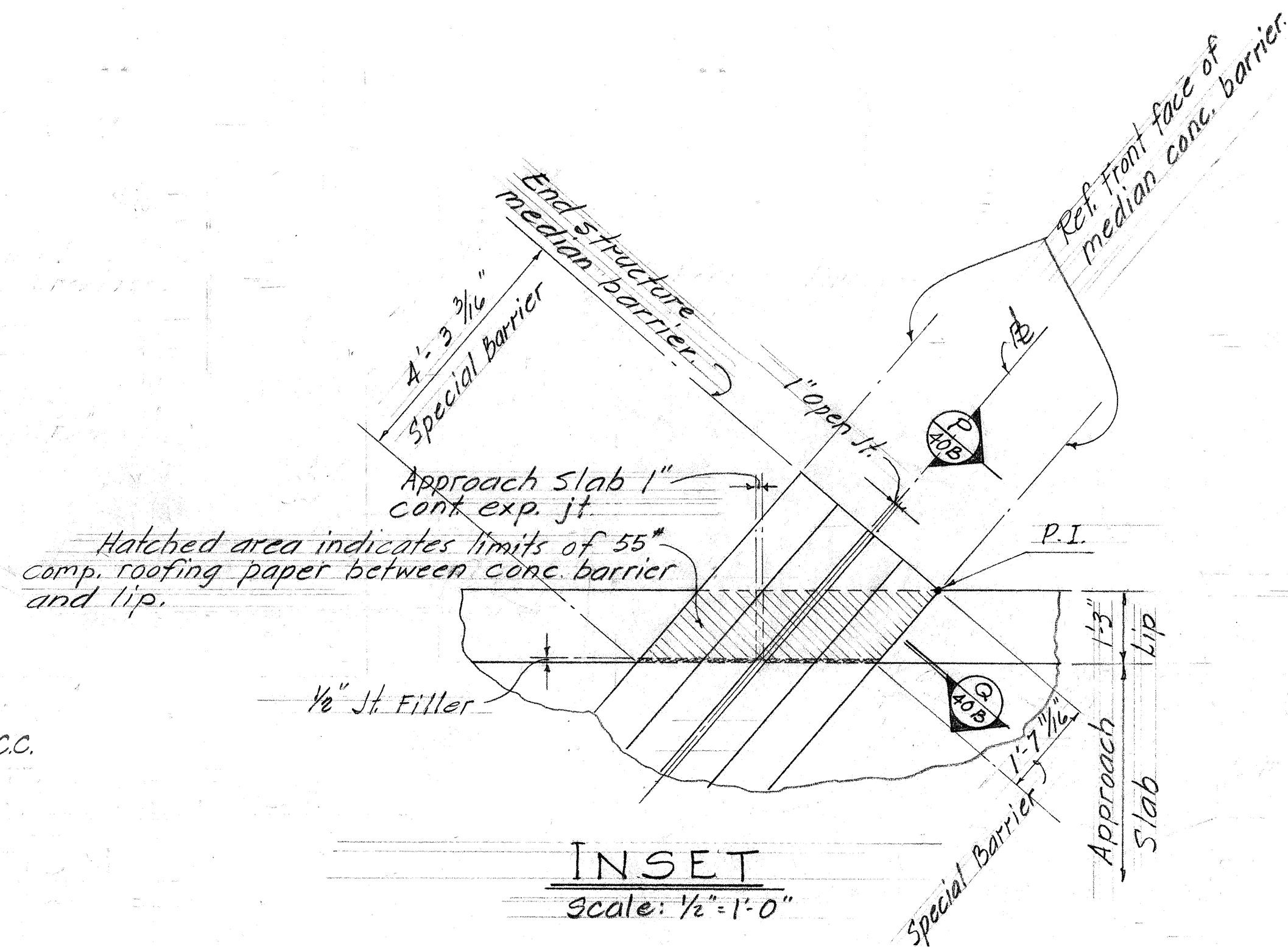
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(68):10	1969		



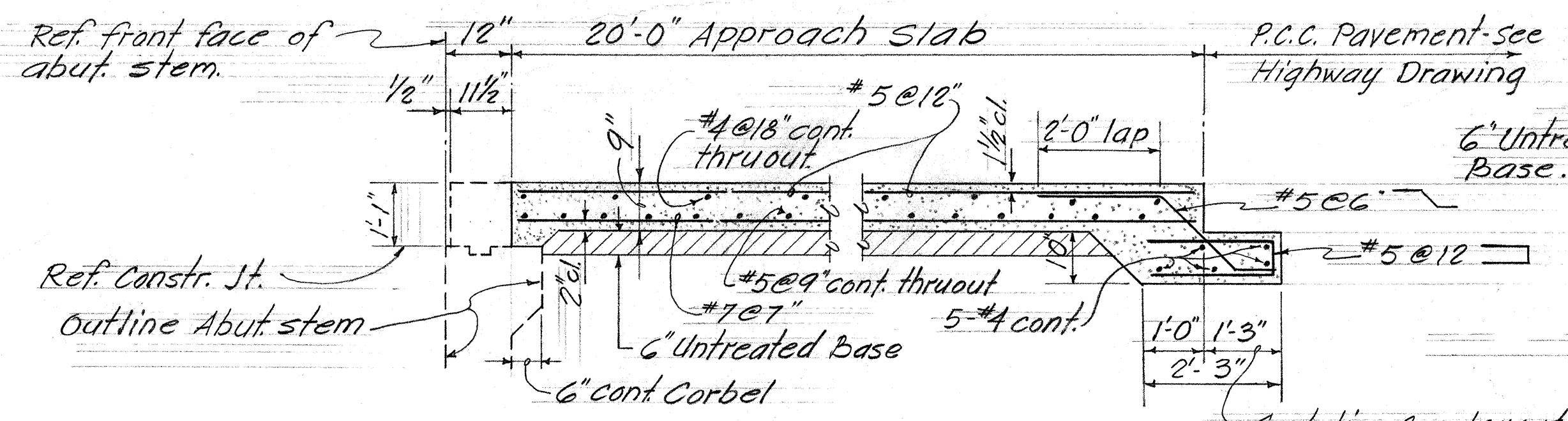
MEDIAN BARRIER ON APPROACH SLAB
Scale: $\frac{1}{2}" = 1'-0"$



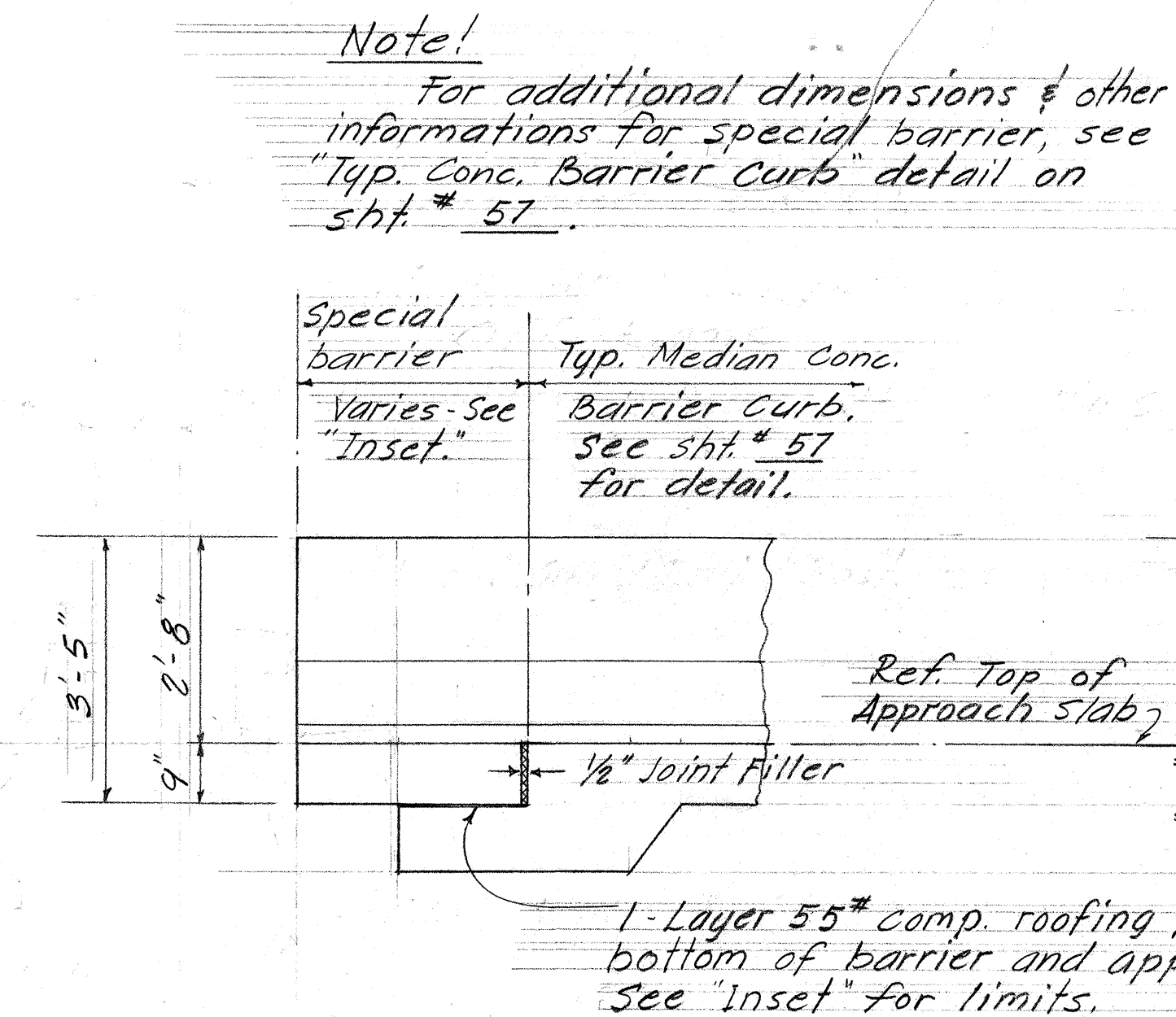
CONCRETE APPROACH SLAB
Scale: $\frac{1}{8}" = 1'-0"$



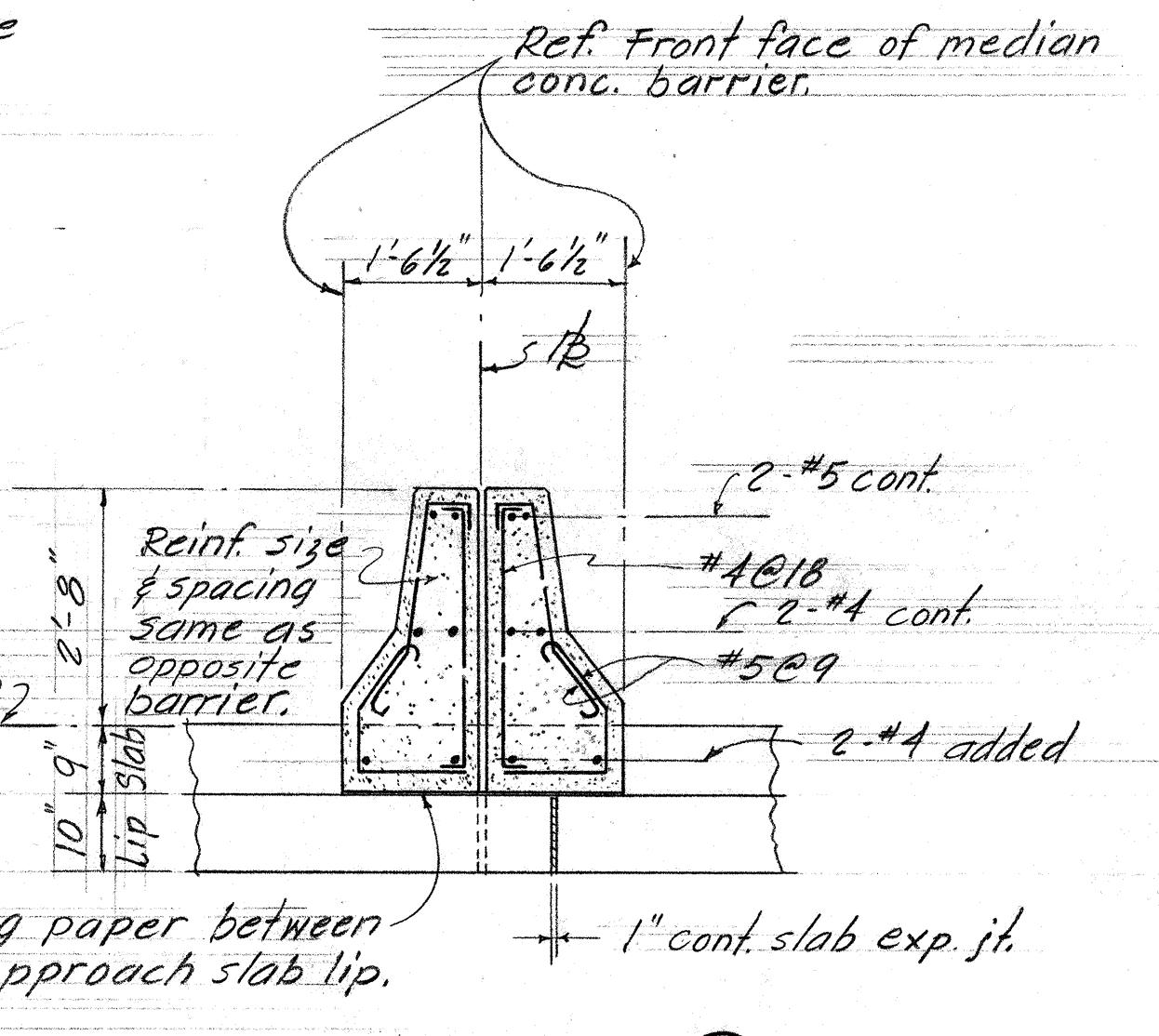
INSET
Scale: $\frac{1}{2}" = 1'-0"$



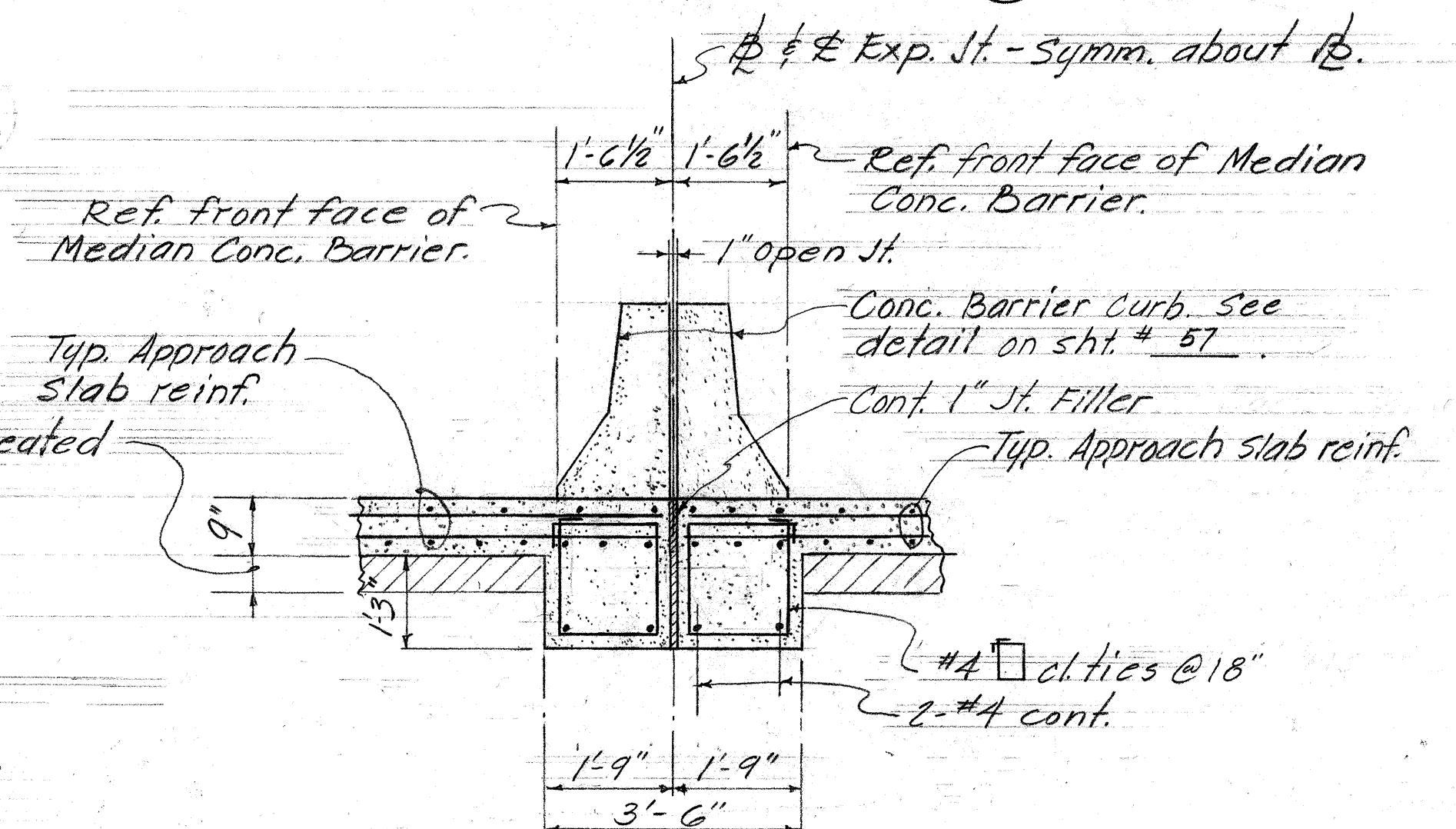
TYP. SECTION THRU APPROACH SLAB
Scale: $\frac{1}{2}" = 1'-0"$



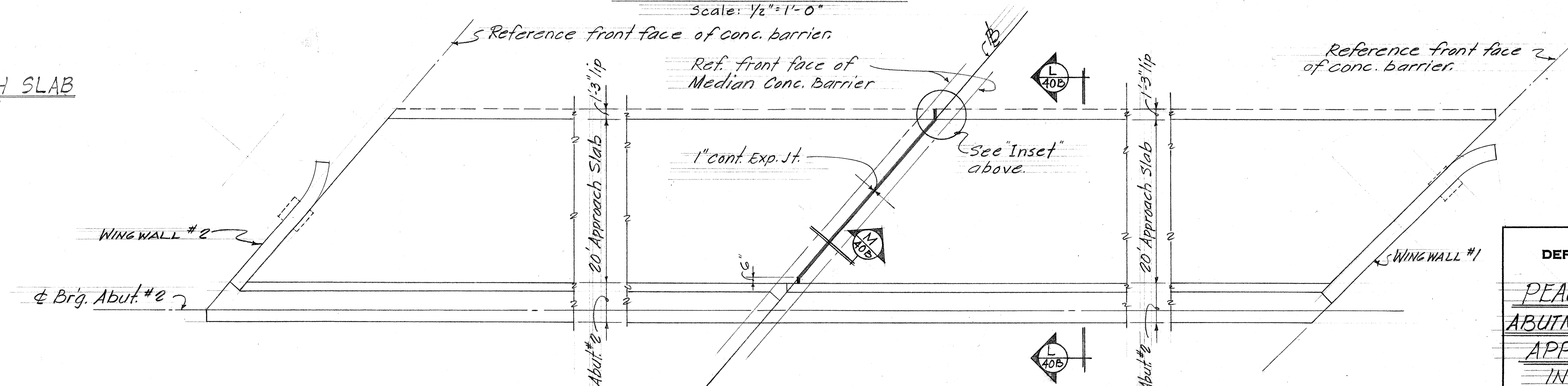
SECTION
Scale: $\frac{1}{2}" = 1'-0"$



SECTION
Scale: $\frac{1}{2}" = 1'-0"$



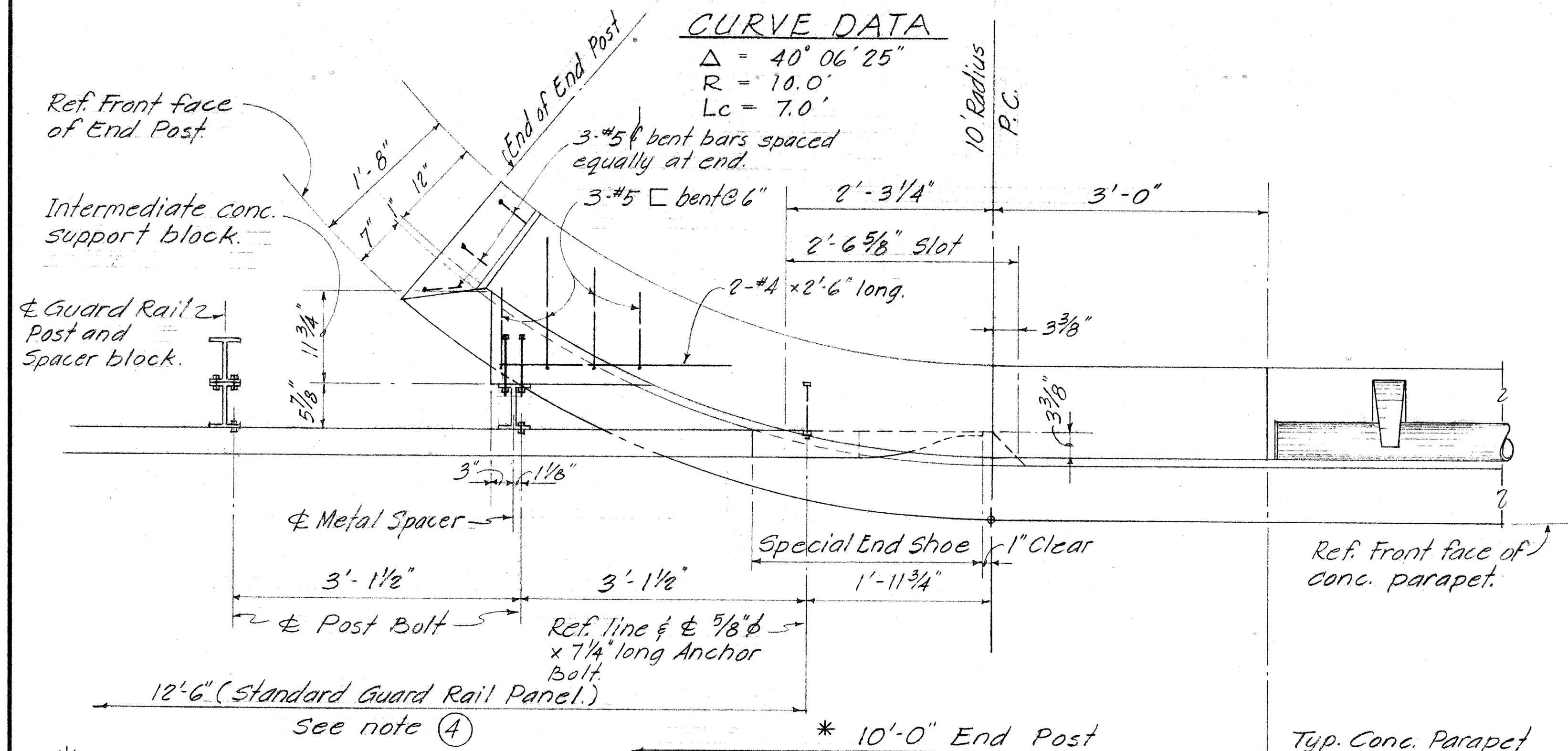
SECTION
Scale: $\frac{1}{2}" = 1'-0"$



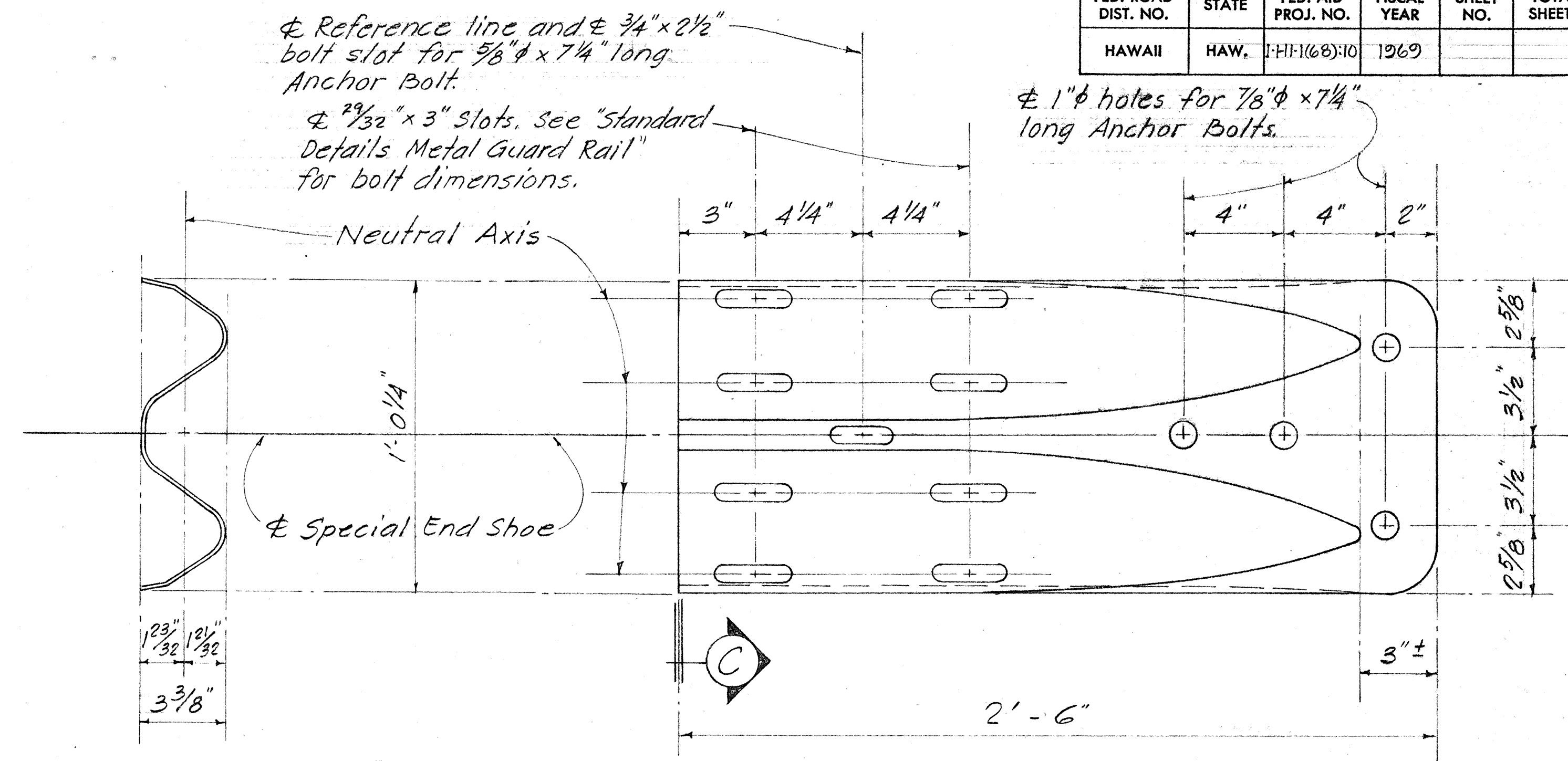
CONCRETE APPROACH SLAB LAYOUT PLAN
Scale: $\frac{1}{8}" = 1'-0"$

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PEARL CITY VIADUCT
ABUTMENT NO 2 - C.R.M. WALL
APPROACH SLAB DETAILS
INTERSTATE ROUTE H-1
F.A.I. Proj. No I-HI-1(68):10
Scale As Noted Jan 1969
SHEET No. 8 OF 9 SHEETS

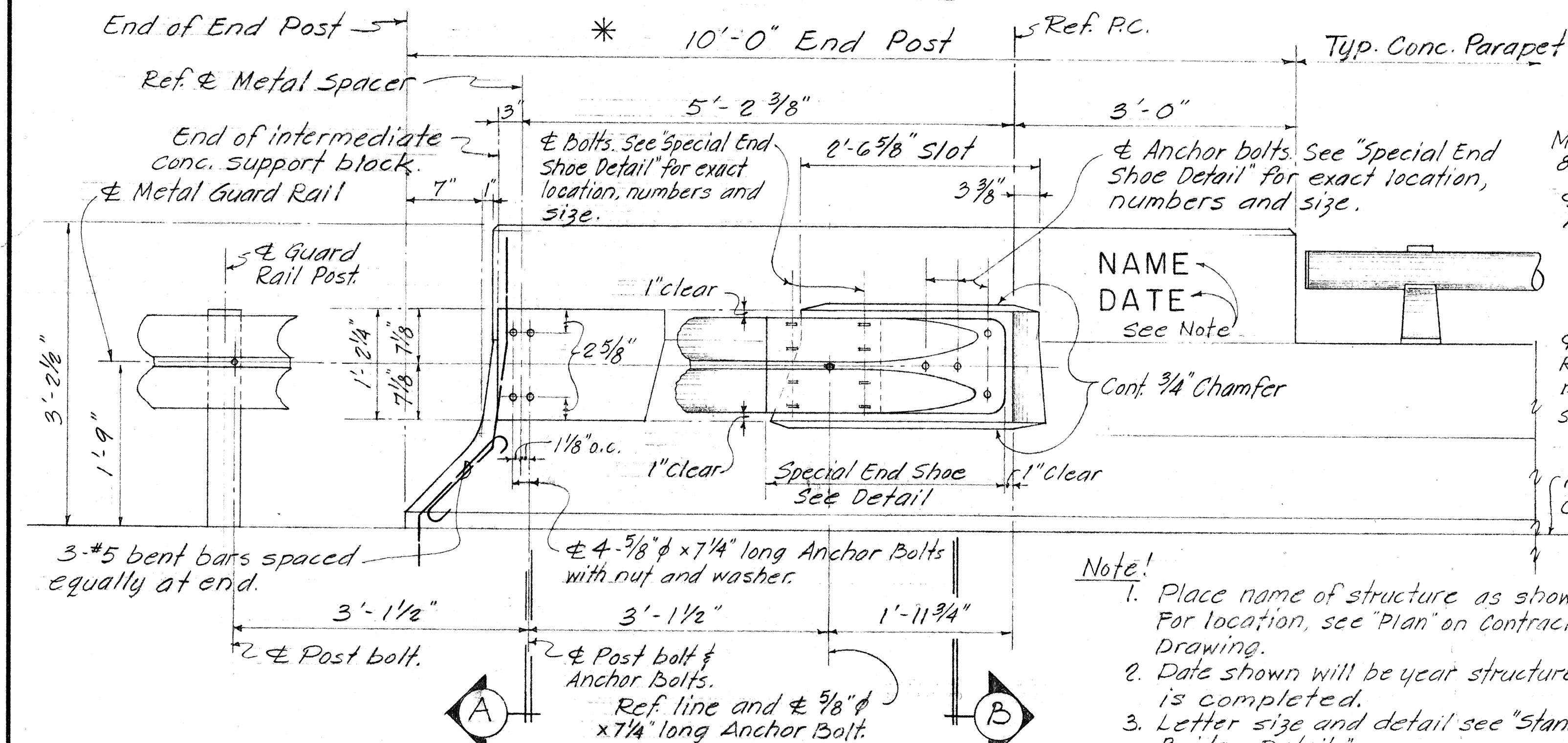
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HH-1(68)10	1969		



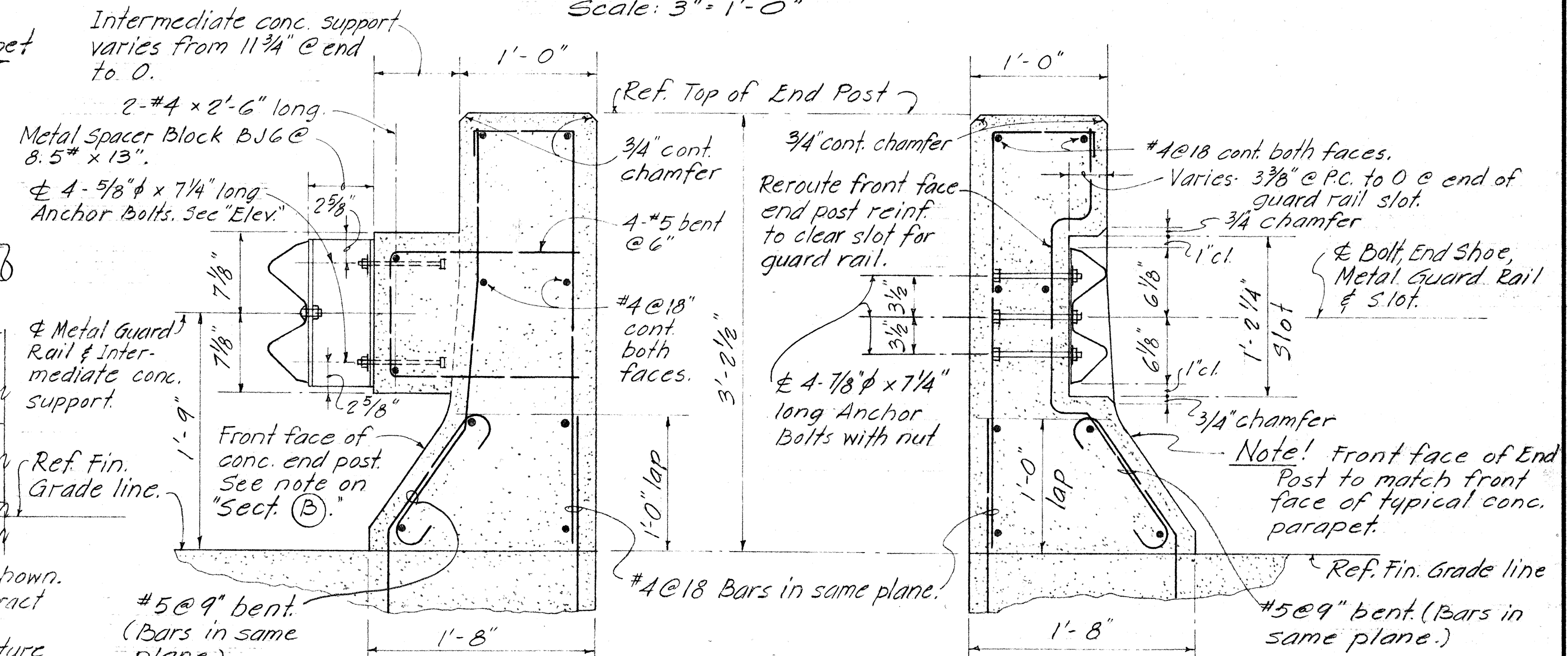
PLAN Scale: 1" = 1'-0"



SECTION (C) ELEVATION
SPECIAL END SHOE DETAILS



ELEVATION Scale: 1" = 1'-0"



SECTION (A)
Scale: $1\frac{1}{2}'' = 1'-0''$

SECTION (B)
Scale: $1\frac{1}{2}" = 1'-0"$

- Note!
1. Place name of structure as shown. For location, see "Plan" on Contract Drawing.
 2. Date shown will be year structure is completed.
 3. Letter size and detail see "Standard Bridge Details".

NOTES

- ① All Anchor Bolts shall be High Strength bolts conforming to the requirements of ASTM A-325.
- ② All Shoe assembly, including anchor bolts, nuts and washers, shall be galvanized.
- ③ Special End Shoe shall be fabricated from 10 gage steel conforming to the requirements of AASHTO 180.
- ④ First Guard Rail Panel adjoining "Special End Shoe" shall be of galvanized steel. See Special Provisions for requirements.
- ⑤ Anchor Bolt length given from under bolt head.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONNECTION DETAILS OF
METAL GUARD RAIL TO
SLOPED FACE CONC. END POST

SCALE AS SHOWN
DATE: MARCH, 1969

SHEET No. 9 OF 9 SHEETS