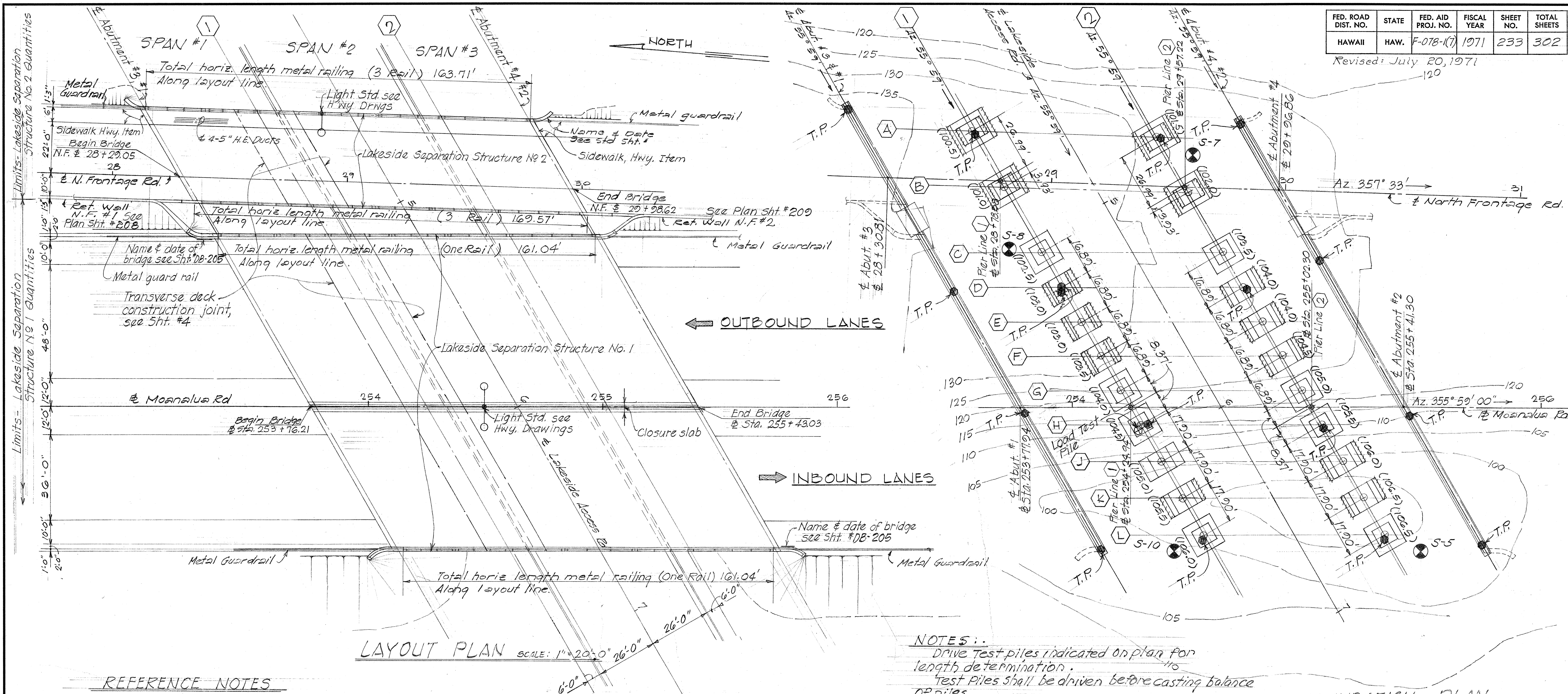


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-078-1(7)	1971	233	302

Revised: July 20, 1971



REFERENCE NOTES

For design notes, general notes, symbols and abbreviations, refer to Sht. #T-1.

Pile capacity - 32 tons.

* LAKESIDE SEPARATION STRUCTURE NO. 2 ESTIMATED QUANTITIES

Concrete - Footing & Pedestal	(124 c.y.)	Lump Sum
Concrete - All others	(346 c.y.)	Lump Sum
Reinforcing Steel	(122,700 lbs.)	Lump Sum
Filter Material	24 c.y.	
Prestressed Girder Type III	(1,160 Lin.Ft.)	Lump Sum
Furnishing - Type I Prestressed Concrete Piles	4,853 Lin.Ft.	
Driving Piles	3,536 Lin.Ft.	
Pre-drilled for Piles	938 Lin.Ft.	
Structural Excavation	437 c.y.	
Metal Bridge Railing (Three Rail Combination Type)	333 Lin.Ft.	
Driving Concrete Test Piles	133 Lin.Ft.	

* Does not include R.W. N.F.#1 & #2.
GRP quantities at abutments are included with Moanalua Lakeside Structure quantities.

LAKESIDE SEPARATION STRUCTURE NO. 1 ESTIMATED QUANTITIES

Concrete - Footing & Pedestal	(449 c.y.)	Lump Sum
Concrete - All others	(1,092 c.y.)	Lump Sum
Reinforcing Steel	(380,000 lb.)	Lump Sum
Filter Material	78 c.y.	
Prestressed Girder Type III	(3,713 Lin.Ft.)	Lump Sum
Furnishing - Type I Prestressed Concrete Piles	10,818 Lin.Ft.	
Driving Piles	11,476 Lin.Ft.	
Pre-drilled for Piles	3,315 Lin.Ft.	
Structural Excavation	1,570 c.y.	
Grouted Rubble Paving (GRP)	582 c.y.	
Metal Bridge Railing (One Rail Traffic Type)	323 Lin.Ft.	
Concrete Bridge Rail & End Post (One Rail Traffic Type)	372 Lin.Ft.	
Driving Concrete Test Piles	418 Lin.Ft.	
Pile Load Test	1	Only

FOUNDATION PLAN Scale: 1" = 20'-0"

This Sheet Supersedes Sht. No. 233

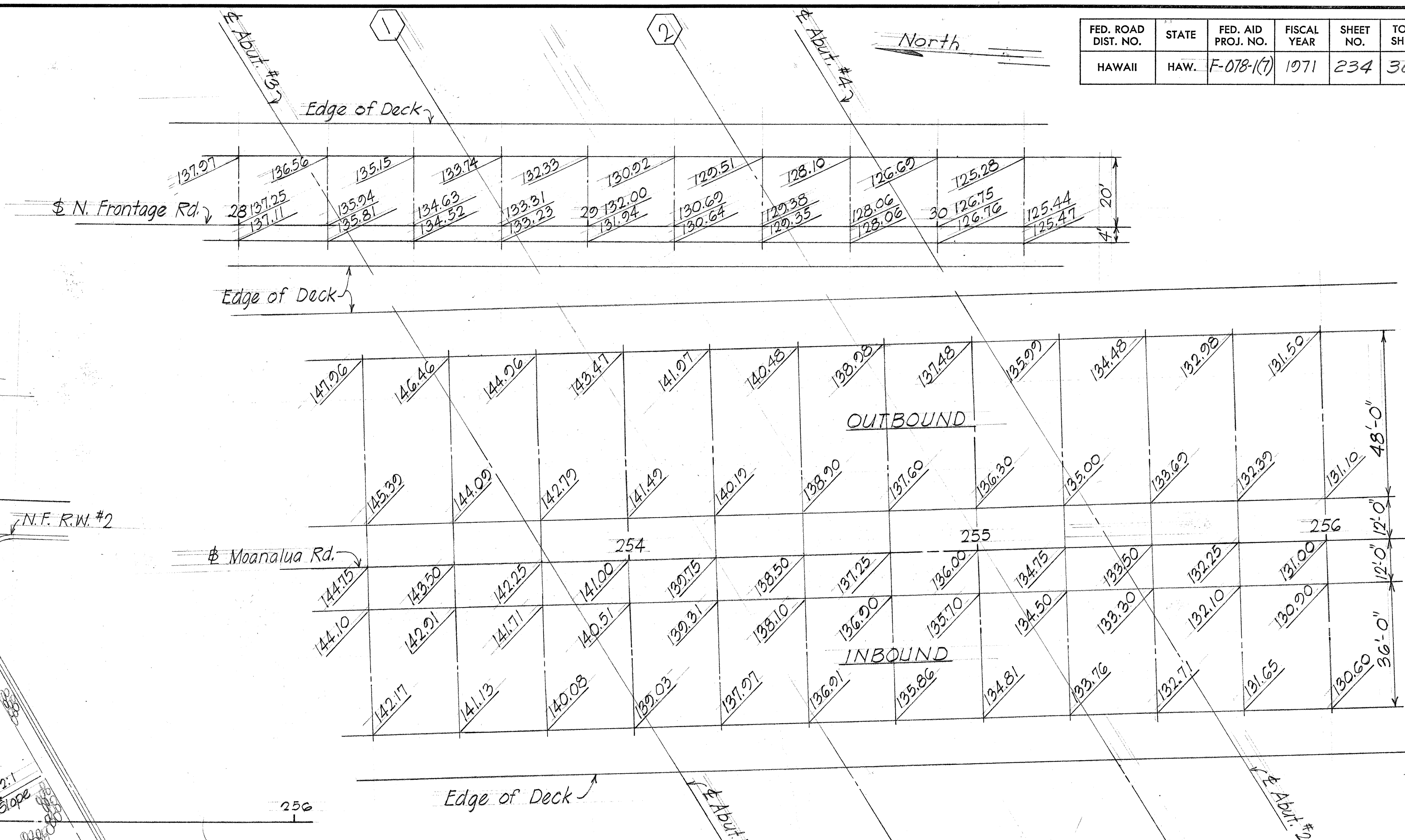
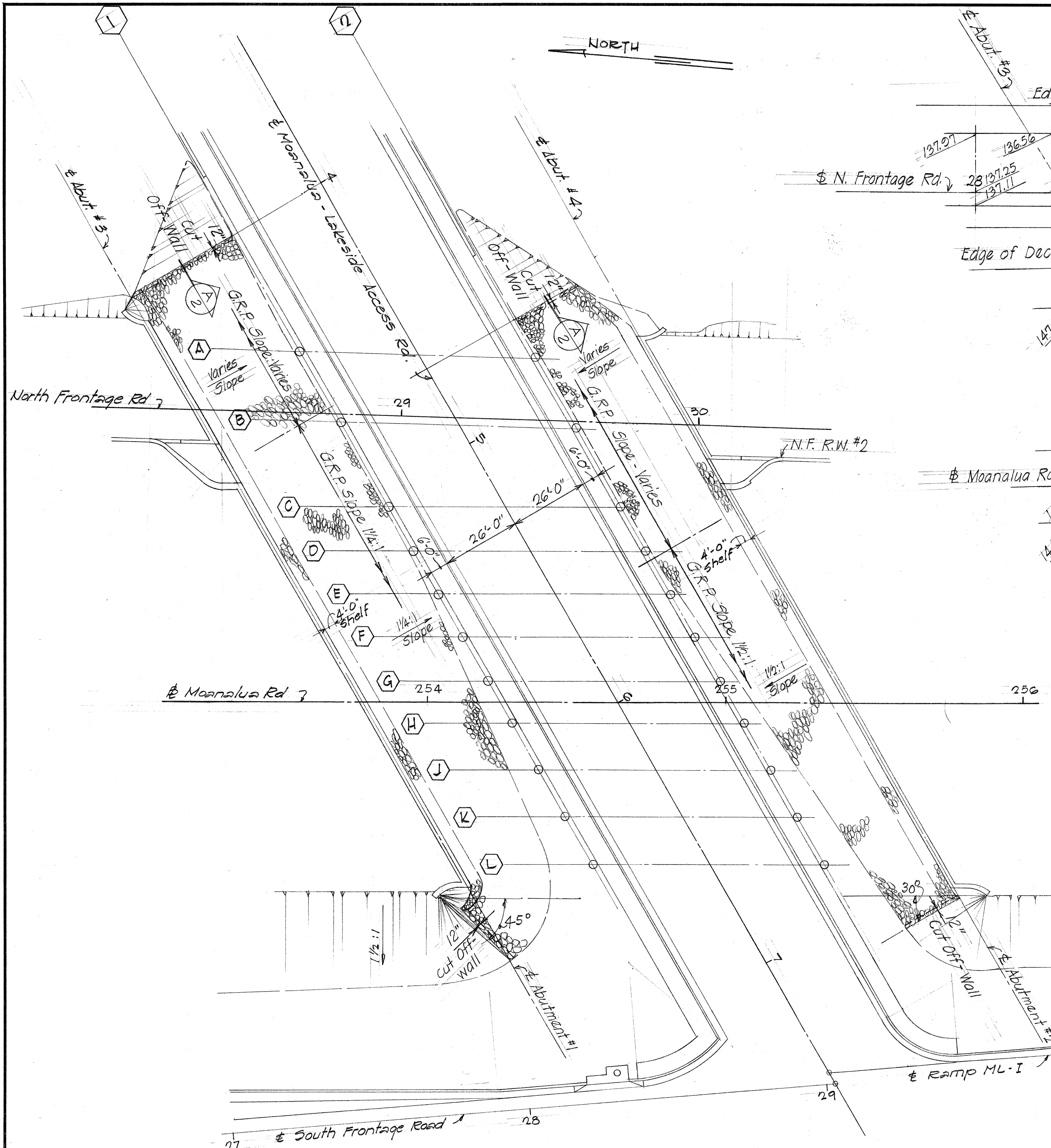
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
LAKESIDE SEPARATION STRUCTURES NO. 1 & NO. 2	
N.F. # 28 + 29.05 TO STA. 29 + 29.62	
MOANALUA STA. 253 + 76.27 TO STA. 255 + 43.22	
LAYOUT PLAN	
MOANALUA ROAD F-078-1(7)	
Aug. 1970	

SHEET No. 1 OF 20 SHEETS

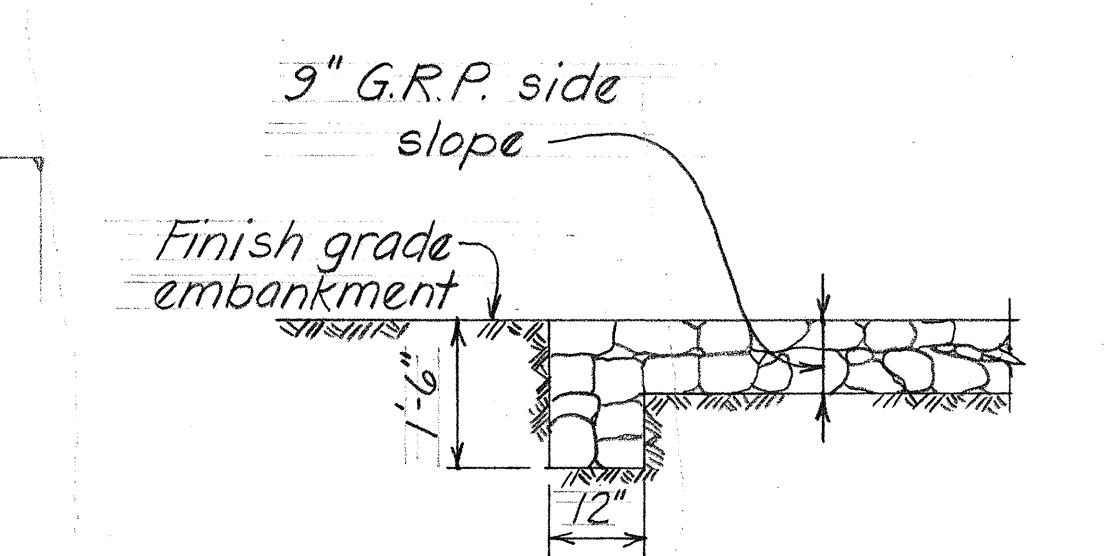
ADD. 233

DESIGNED BY	DATE
DRAWN BY	Aug. 70
CHECKED BY	
NOTED BY	
ORIGINAL	
PLAN	
BOOK	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-078-1(7)	1971	234	302



FINISH GRADE PLAN Scale: 1" = 20'-0"



TYPICAL G.R.P. CUT OFF-WALL DETAIL

PLAN - BRIDGE ABUTMENT SLOPE PROTECTION Scale: 1" = 20'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

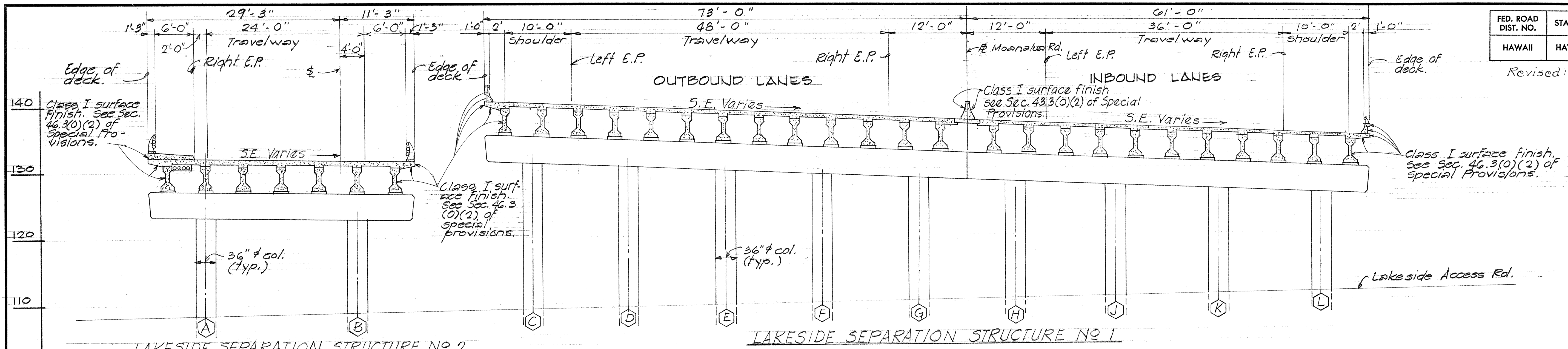
LAKE SIDE SEPARATION STRUCTURES
NO 1 & NO 2
GRADING PLAN & PROFILE

Moanalua Rd. F-078-1(7)
Aug. 1970

SHEET No. 2 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-078-1(7)	1971	235	302

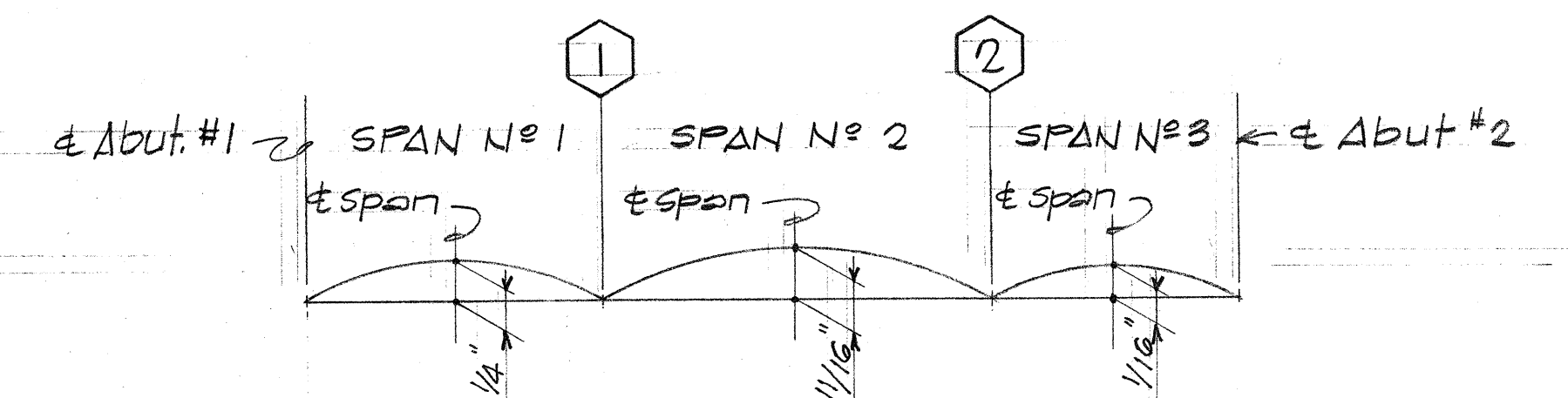
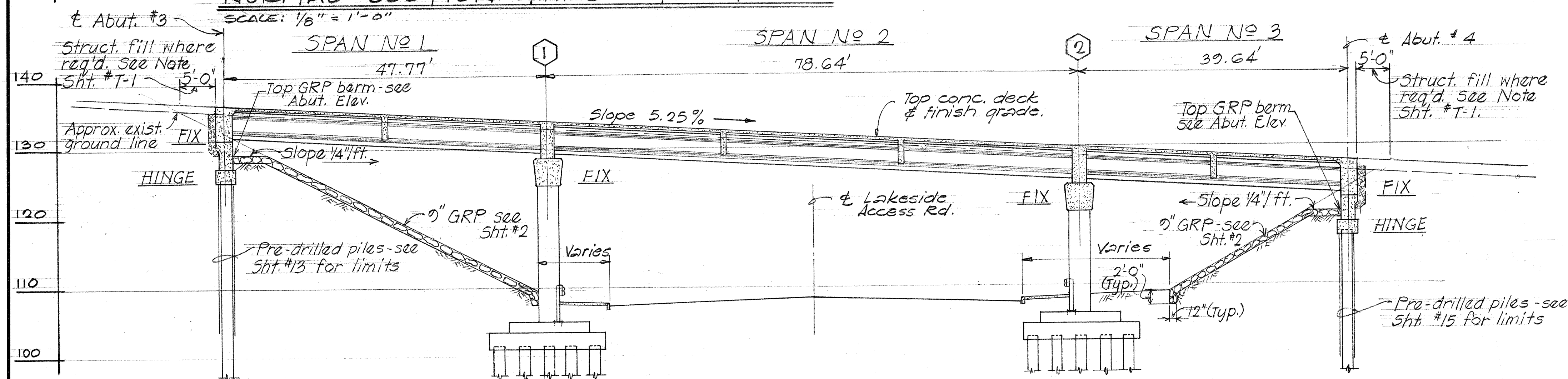
Revised: July 20, 1971



LAKE SIDE SEPARATION STRUCTURE NO 2

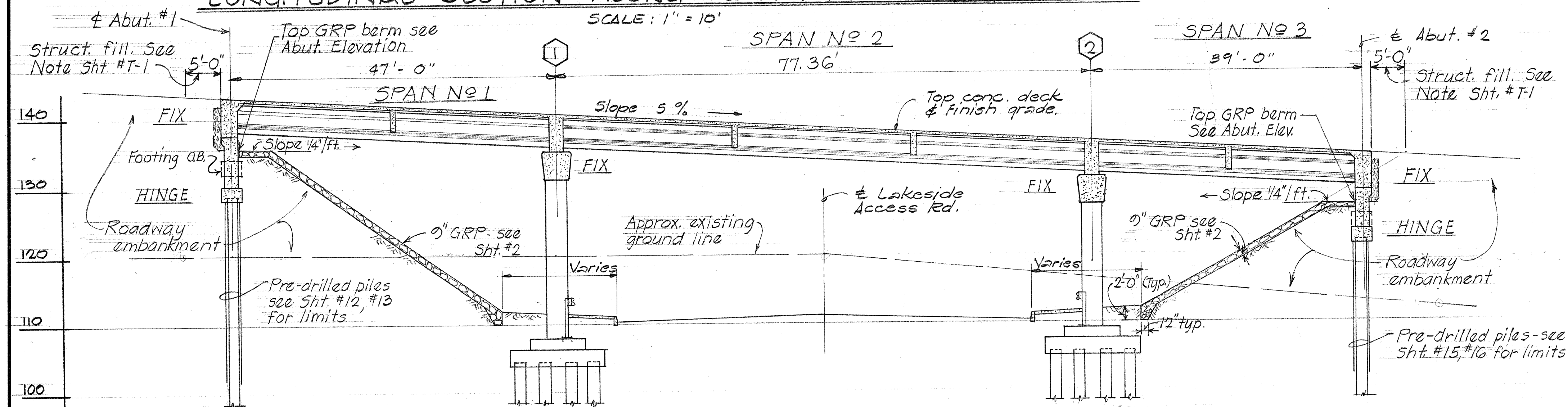
LAKE SIDE SEPARATION STRUCTURE NO 1

NORMAL SECTION THRU STRUCTURES



DECK SLAB CAMBER DIAGRAM
LAKE SIDE SEPARATION STRUCTURES NO 1 & NO 2

LAKE SIDE SEPARATION STRUCTURE #2
LONGITUDINAL SECTION ALONG & NORTH FRONTAGE ROAD



LAKE SIDE SEPARATION STRUCTURE #1

LONGITUDINAL SECTION ALONG & MOANALUA RD. Scale: 1" = 10'-0"

NOTE:

1. All pre-drilled piles to be cored before driving.

This sheet supersedes Sht. No. 235

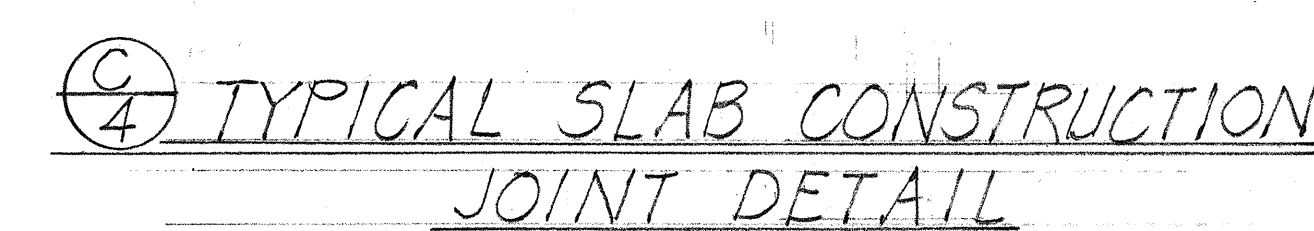
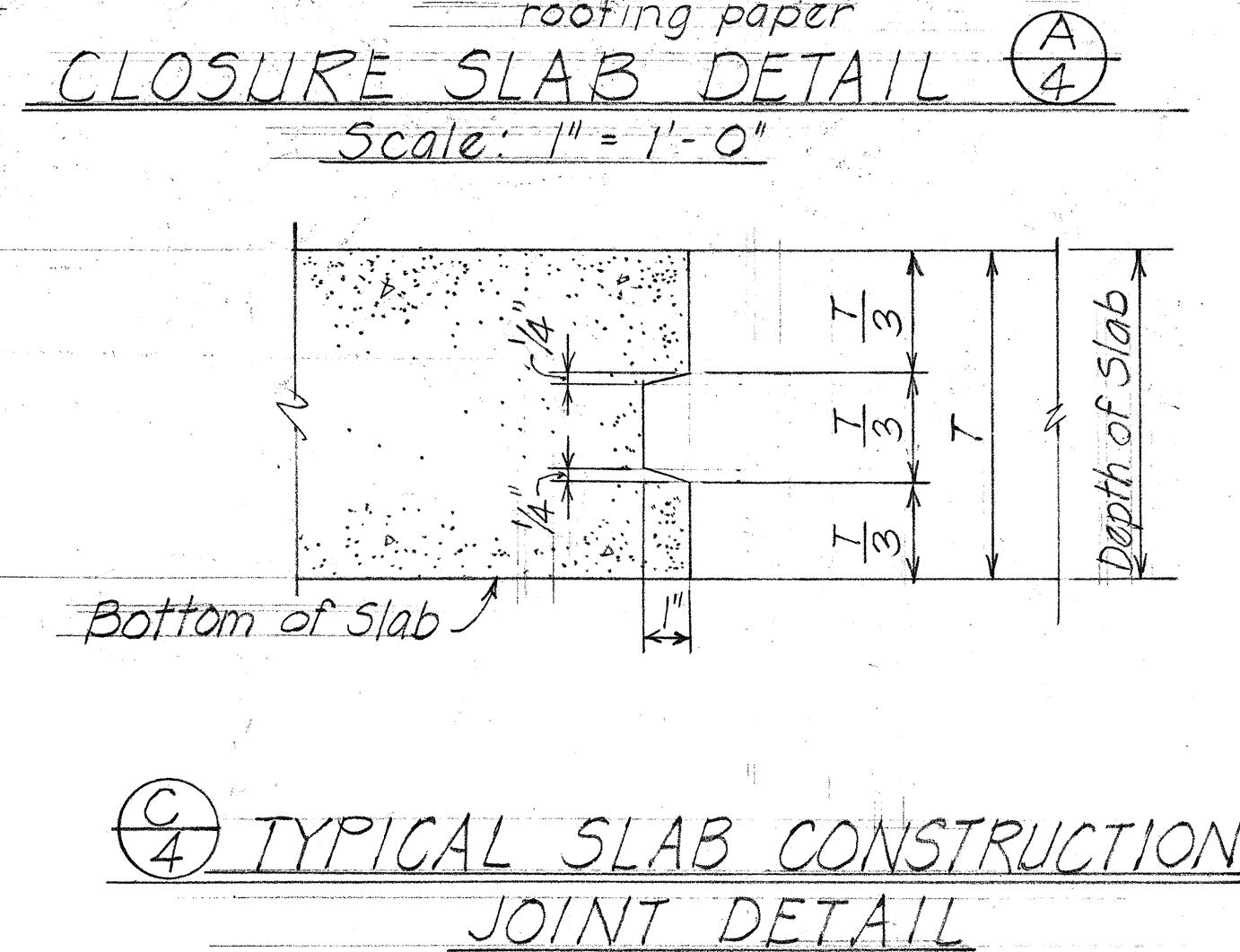
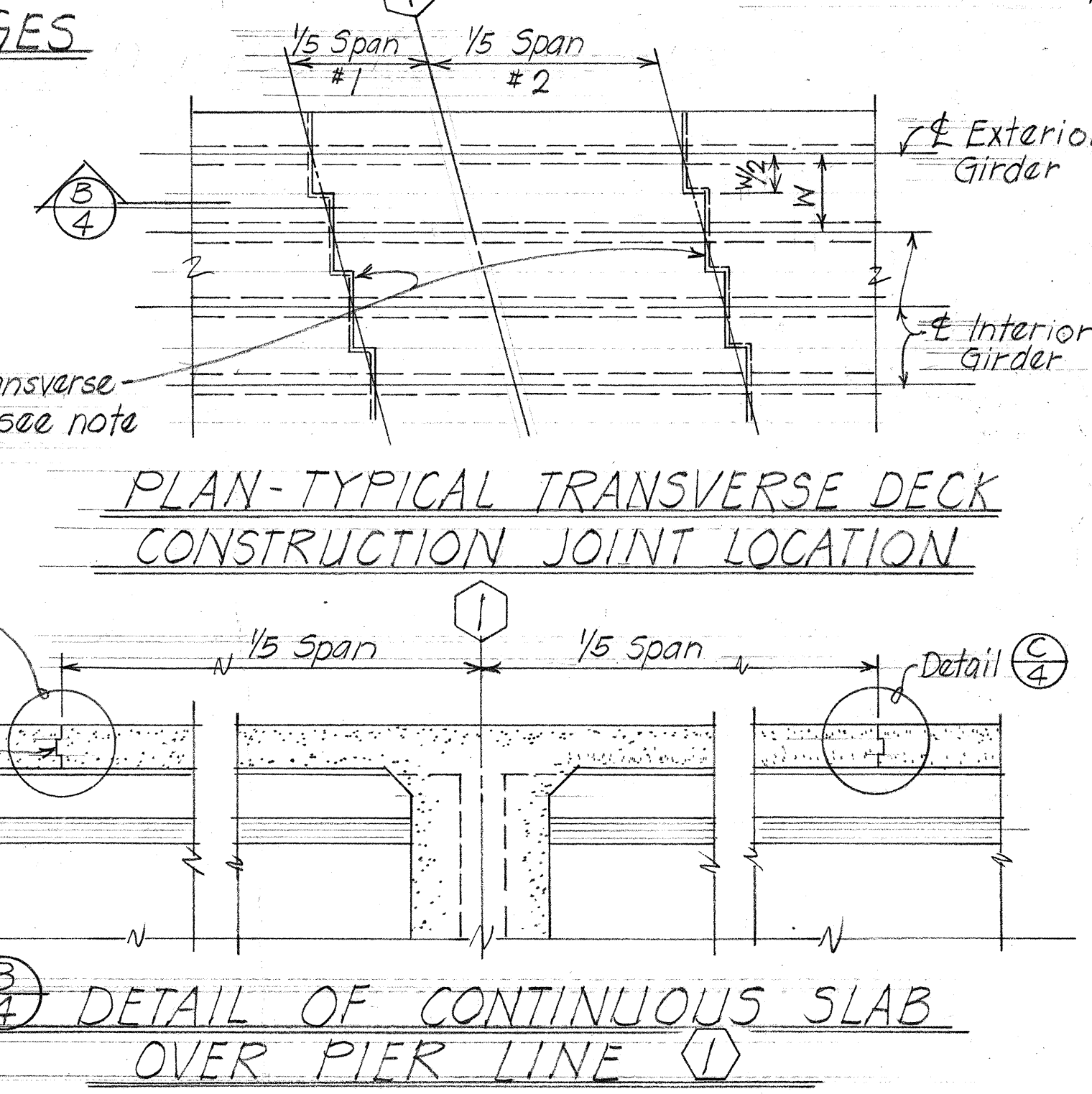
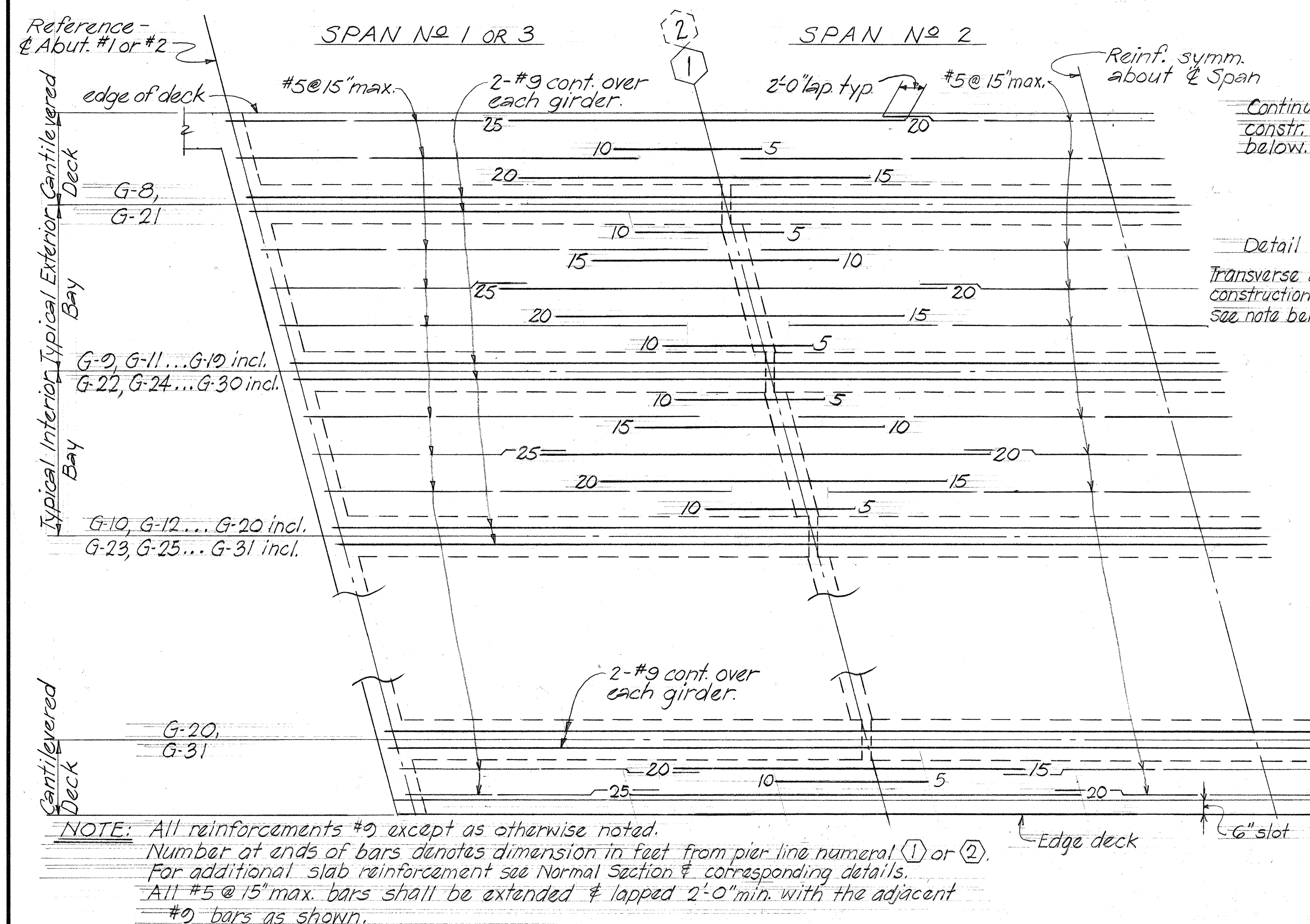
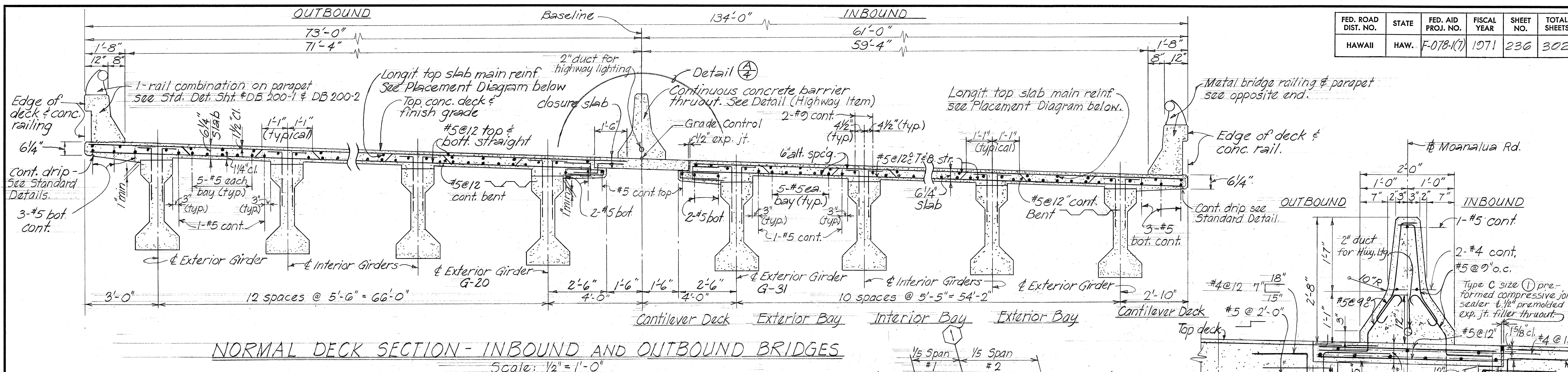
STATE OF HAWAII	
DEPARTMENT OF TRANSPORTATION	
HIGHWAYS DIVISION	
LAKE SIDE SEPARATION STRUCTURES	
No 1 & No 2	
TYPICAL BRIDGE SECTIONS	
Moanalua Road	F-078-1(7)
Aug. 1970	

SHEET No. 3 OF 20 SHEETS

ADD. 235

DATE	Aug. 70
SURVEY PLOTTED BY	SV
DRAWN BY	HT
DESIGNED BY	HT
NOTED BY	HT
CHECKED BY	HT
ORIGINAL PLAN	
NOTE BOOK	
QUANTITIES BY	HT
CHECKED BY	HT
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-078-1(7)	1971	236	302



NOTE:
Transverse deck construction joint shall be used at these locations. The portion of the pour indicated between construction joints over the pier shall not be poured until the pours for the adjacent positive moment areas have been completed.

Transverse deck construction joints may be eliminated if permitted by the Engineer in writing. If the construction joints are eliminated, water reducing and retarding admixture conforming to AASHTO Designation: M194, Type D, shall be added to the deck concrete over the pier within the indicated lines. The type of the admixture shall be such that the amount of dosage used will produce the retardation required. The type and dosage of the admixture, and the method of pour shall be approved by the Engineer.

REFERENCE NOTES:
1. Refer to Sht. #5 for Typical Slab Drop Panel Detail at Prestressed Girder.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LAKESIDE SEPARATION STRUCTURE
No. 1

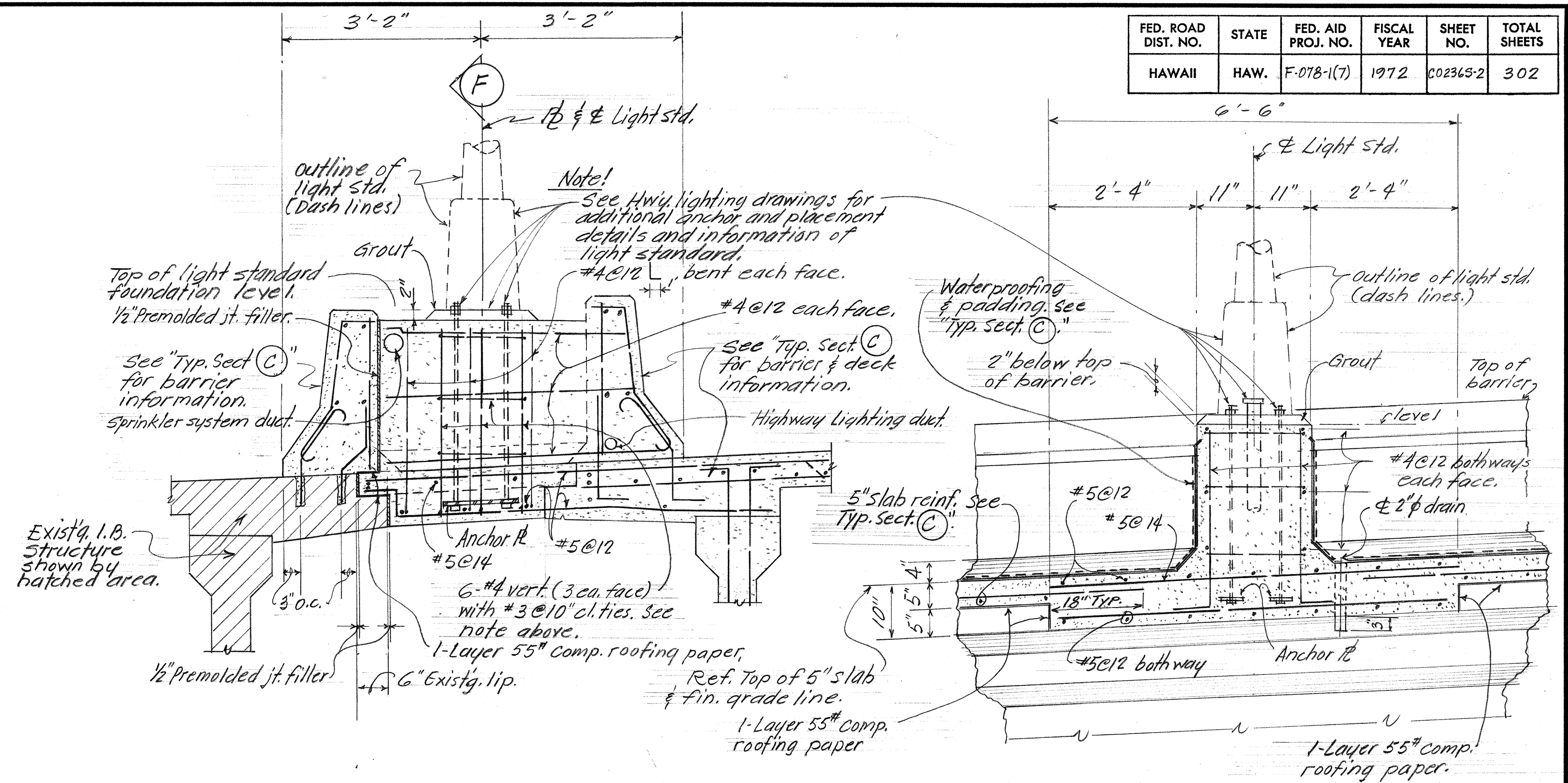
DECK SECTIONS & DETAILS

Moanalua Rd. F-078-1(7)
Aug. 1970

SHEET No. 4 OF 20 SHEETS

ORIGINAL PLAN	DATE
DESIGNED BY: [Signature]	Aug. 1970
CHECKED BY: [Signature]	
NOTED BY: [Signature]	
QUANTITIES BY: [Signature]	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-078-1(7)	1972	02365-2	302



SECTION E SECTION F
CONC. FOUNDATION FOR LIGHT STD.
ON BRIDGE DETAILS
 Scale: 3/4" = 1'-0"

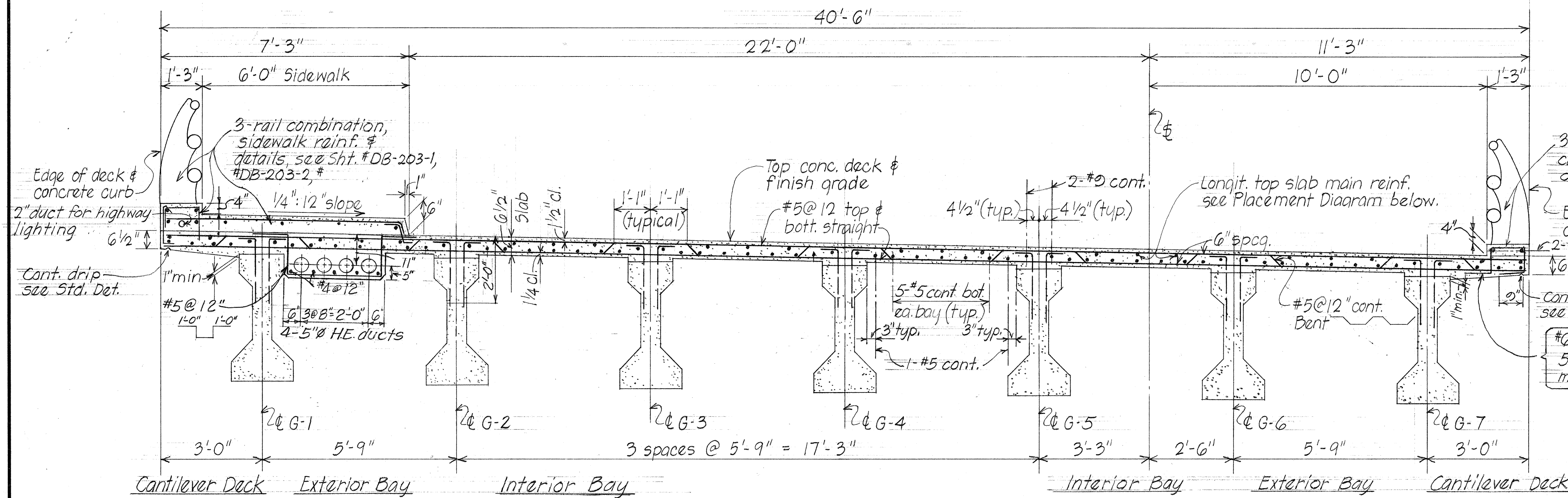
DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

7/10/73	Supplement sheet for planter box and related details
DATE	REVISION

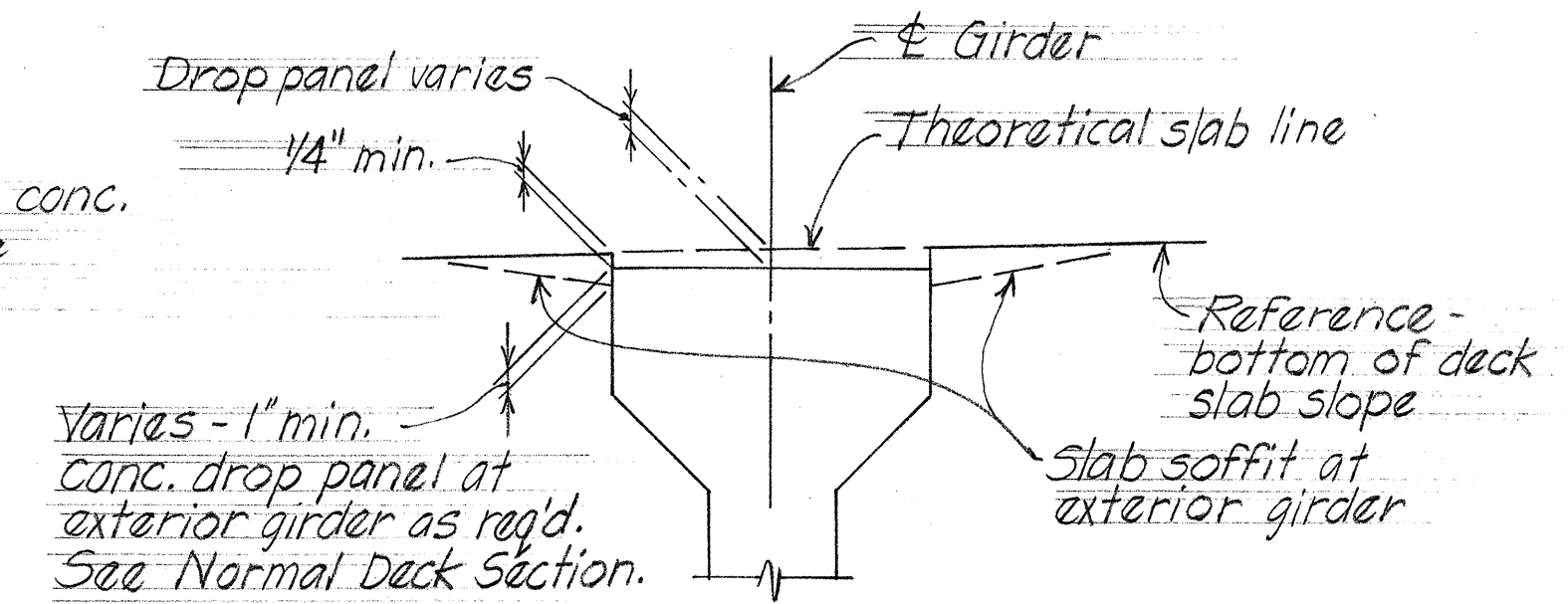
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION LAKESIDE SEPARATION STRUCTURE No. 1 N.F. 28+29.05 To Sta. 29+98.62 Moanalua Sta. 253+76.27 To Sta. 255+43.03 CONC. CORBEL, LIGHT STD. CONC. FOUNDATION & PLANT BOX DETS. Moanalua Rd. March, 1973 F-078-1(7)
SHEET No. R-2 OF 2 SHEETS

Revised: July 20, 1971

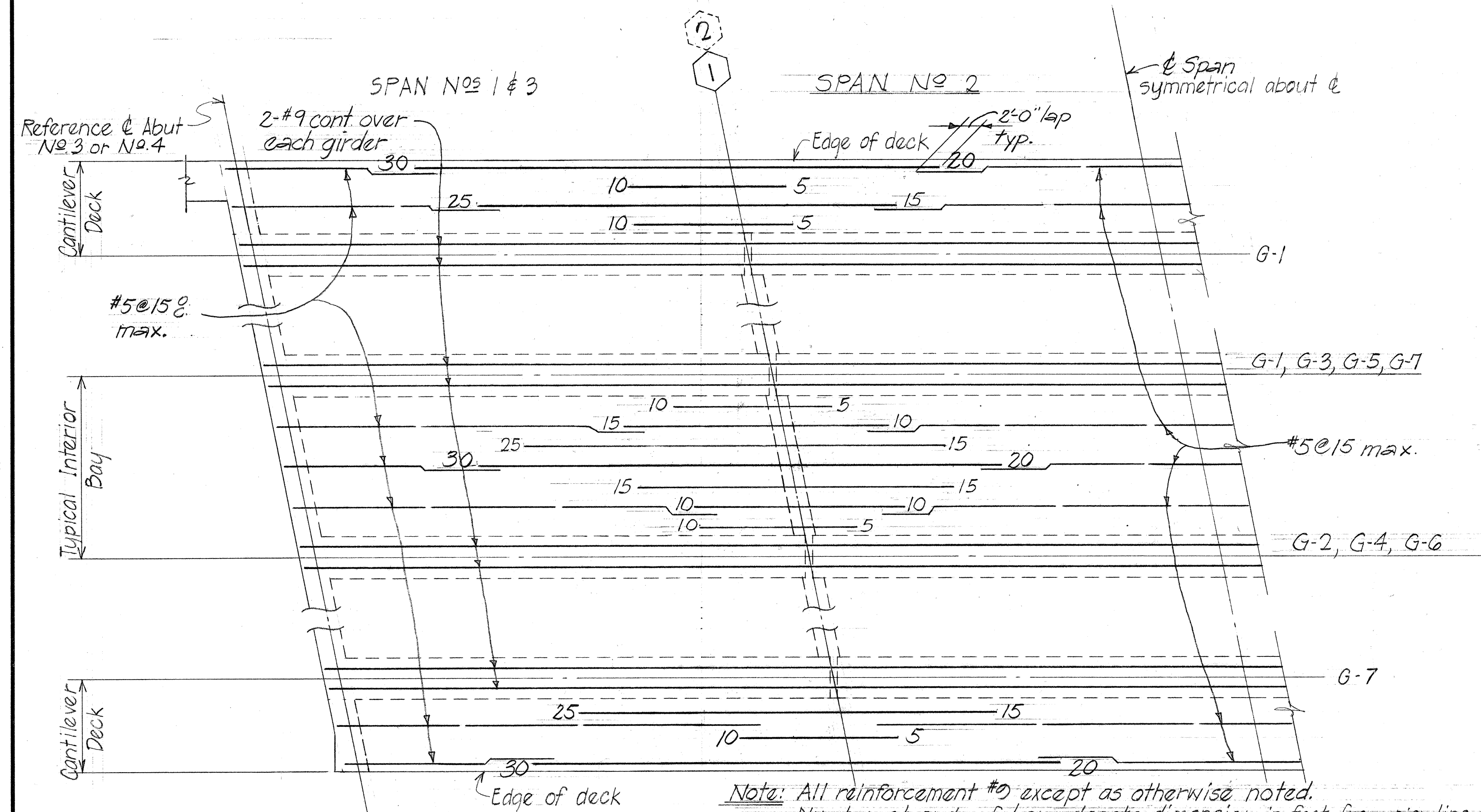
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-078-1(7)	1971	237	302



NORMAL DECK SECTION
Scale: 1/2" = 1'-0"



TYPICAL SLAB DROP PANEL DETAIL AT PRESTRESSED GIRDERS
No Scale



Note: All reinforcement #5 except as otherwise noted. Number at ends of bars denote dimension in feet from pier line number. For additional slab reinforcement, see Normal Section & corresponding details. All #5 @ 15" max. bars shall be extended & lapped 2'-0" min. with the adjacent #5 bars as shown.

TYPICAL PLACEMENT DIAGRAM - DECK SLAB TOP LONGITUDINAL REINFORCEMENT
Scale: Horiz. 1/8" = 1'-0" Vert. 3/8" = 1'-0"

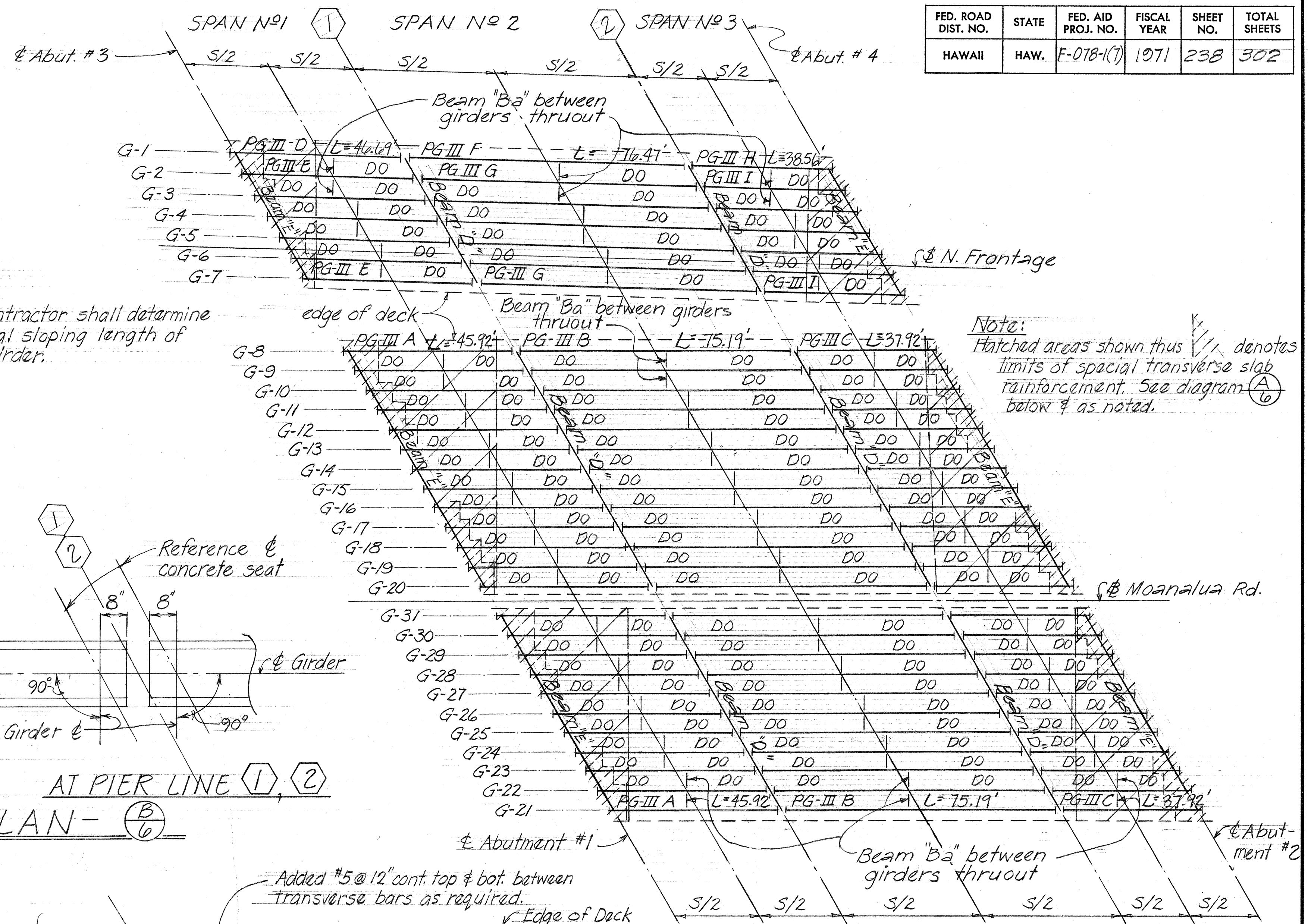
This Sheet Supersedes Sht. No. 237

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
LAKESIDE SEPARATION STRUCTURE No. 2	
DECK SECTIONS & DETAILS	
Moanalua Road	F-078-1(7)
Aug. 1970	

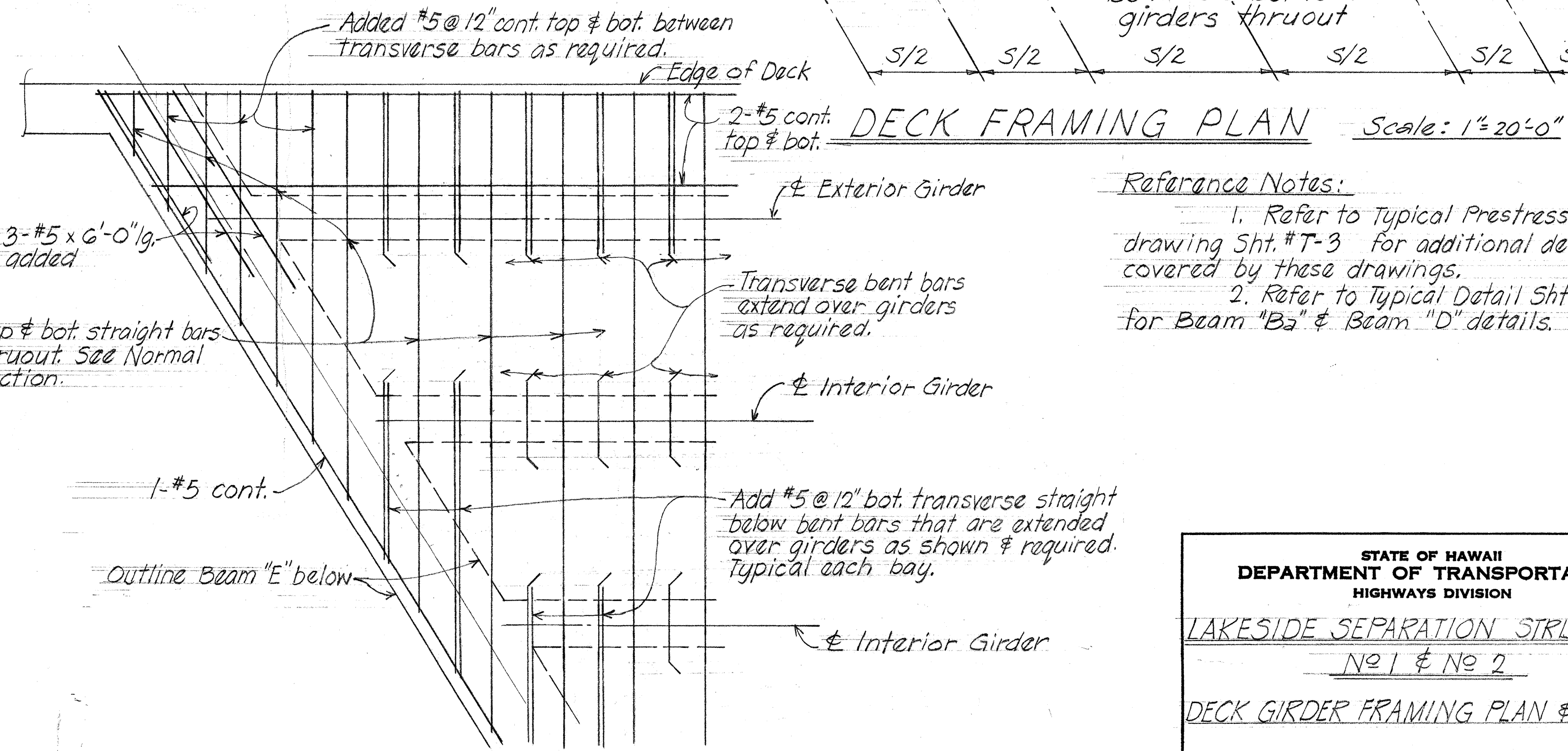
SHEET No. 5 OF 20 SHEETS

ADD. 237

SURVEY PLANNED BY	DATE
DRAWN BY	
TRACED BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	
DATE	



AT ABUTMENTS AT PIER LINE ①, ②
TYPICAL PLAN - (B)
6



(A)
6 DIAGRAM - TYPICAL ARRANGEMENT
OF REINFORCING AT SKEWED ENDS No Scale

Reference Notes:

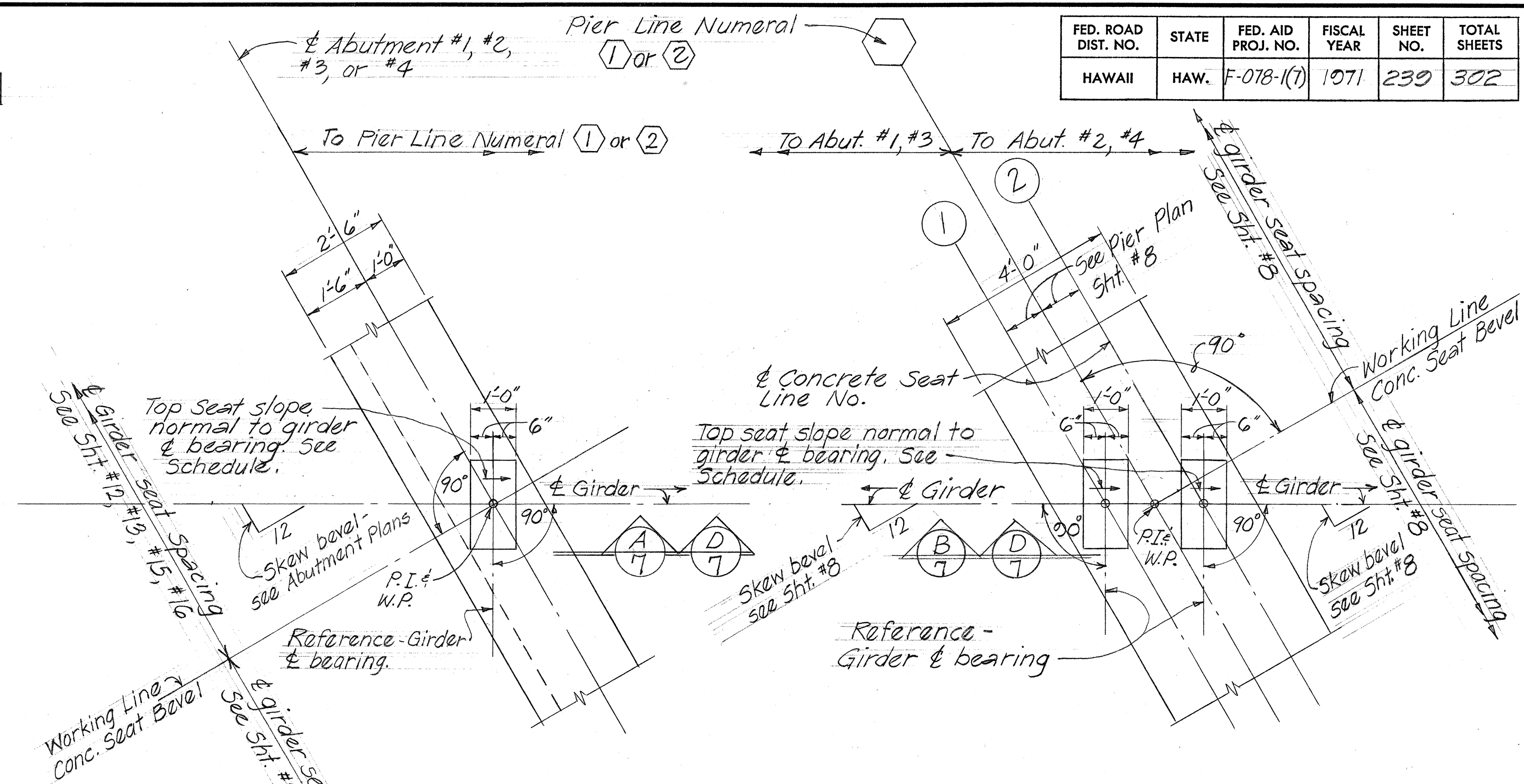
1. Refer to Typical Prestressed Girder drawing Sht. #T-3 for additional details not covered by these drawings.
2. Refer to Typical Detail Sht. #T-4, #T-5 for Beam "Ba" & Beam "D" details.

K+E CRYSTALEND® LA 2920
TRACING PAPER

GIRDER CONCRETE SEAT ELEVATION SCHEDULE (AT GIRDER & BEARING)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-078-1(7)	1971	239	302

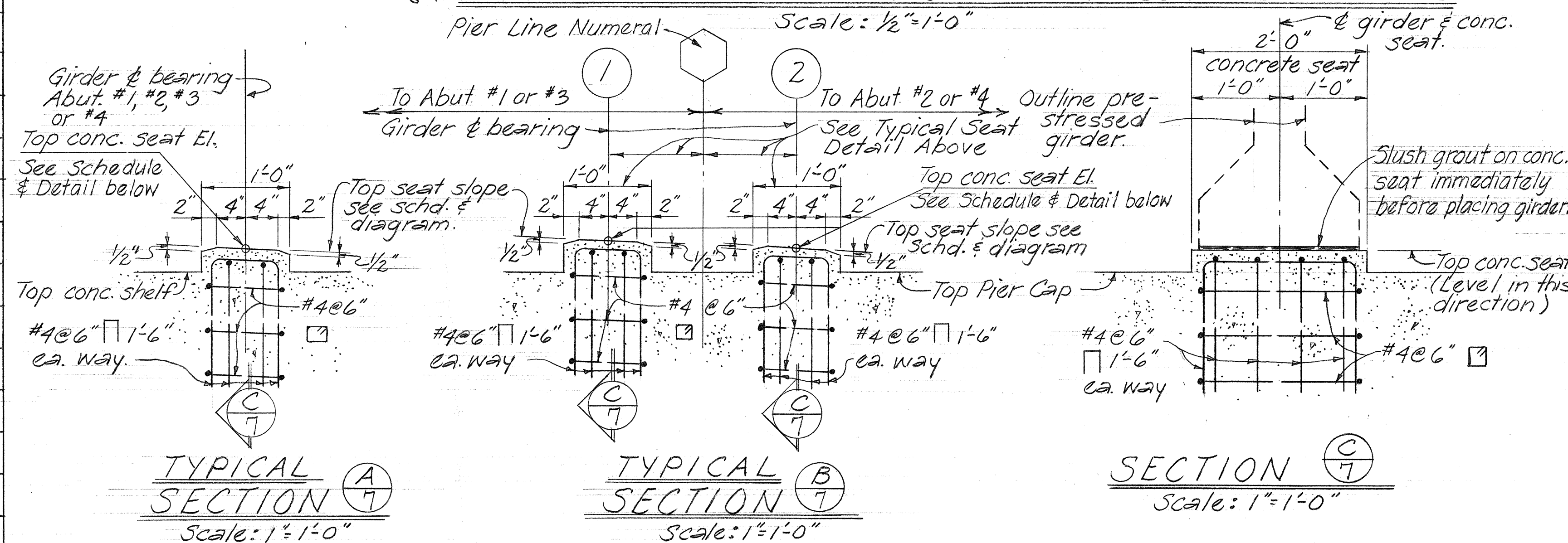
SEPARATION STRUCTURE No. 2														
ABUTMENT #1 or #3														
DIRECTION														
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AT ABUTMENT

AT PIER
LINE NUMERAL ① or ②

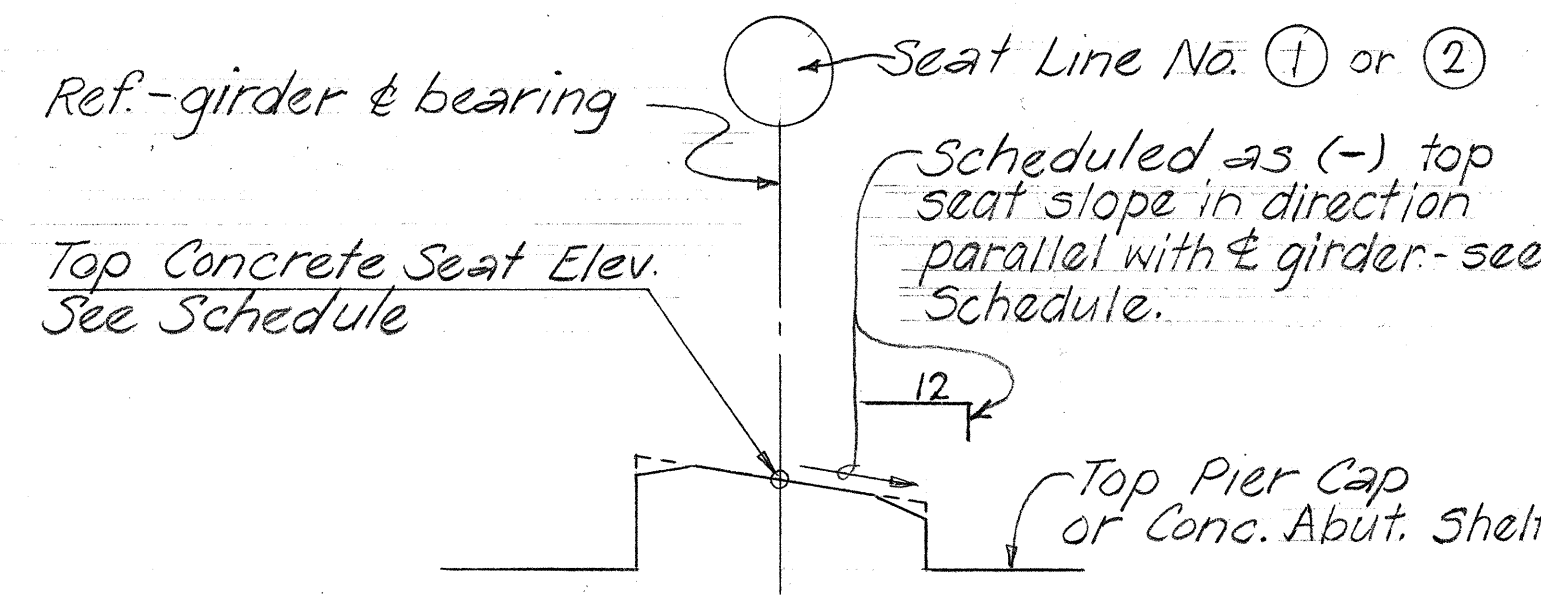
PLAN-TYPICAL GIRDER CONC. SEAT LOCATION DETAIL



TYPICAL SECTION A
Scale: 1/2"=1'-0"

TYPICAL SECTION B
Scale: 1/2"=1'-0"

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

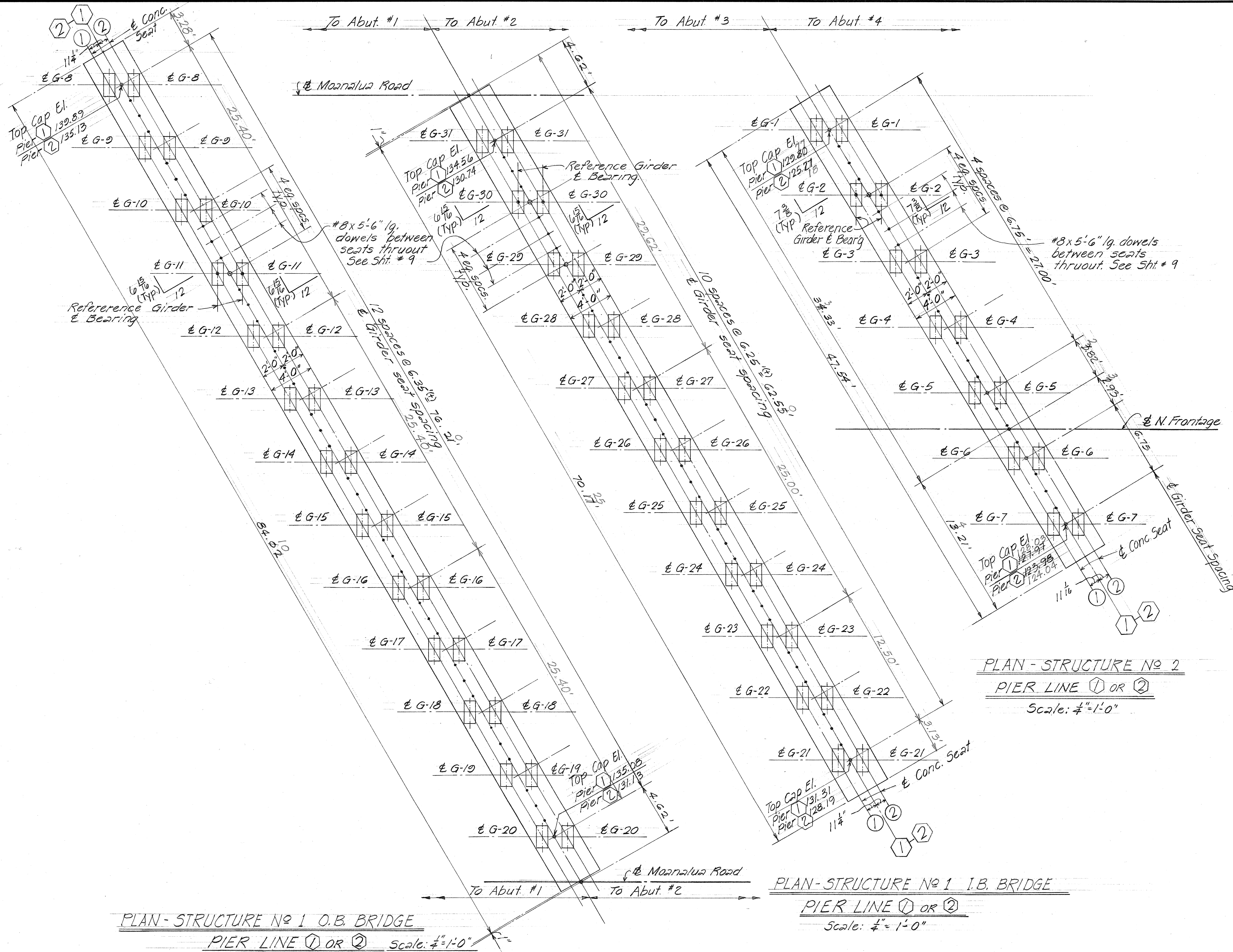


① DIAGRAM-CONDITION OF TOP CONC. SEAT SLOPES AND DESIGNATIONS No Scale

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
LAKESIDE SEPARATION STRUCTURES
No. 1 & No. 2
GIRDER SEAT SCHEDULES & DETAILS
Moanalua Rd F-078-1(7)
Aug. 1970

SHEET No. 7 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-078-1(7)	1971	240	302



DATE	Aug. 72
DESIGNED BY	B.G.
DRAWN BY	B.G.
CHECKED BY	B.G.
NOTED BY	B.G.
NO.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

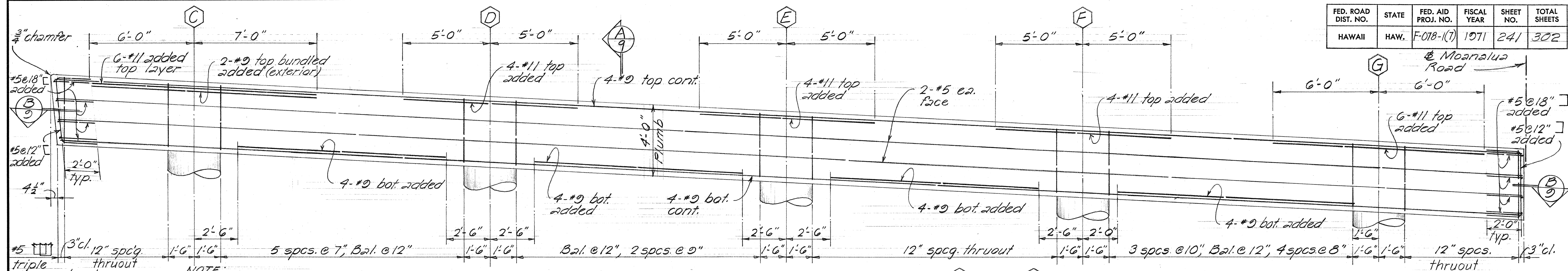
LAKESIDE SEPARATION STRUCTURES
NO. 1 & NO. 2

PIER 1, 2 DETAILS

Moanalua Rd. F-078-1(7)
Aug. 1970

SHEET No. 8 OF 20 SHEETS

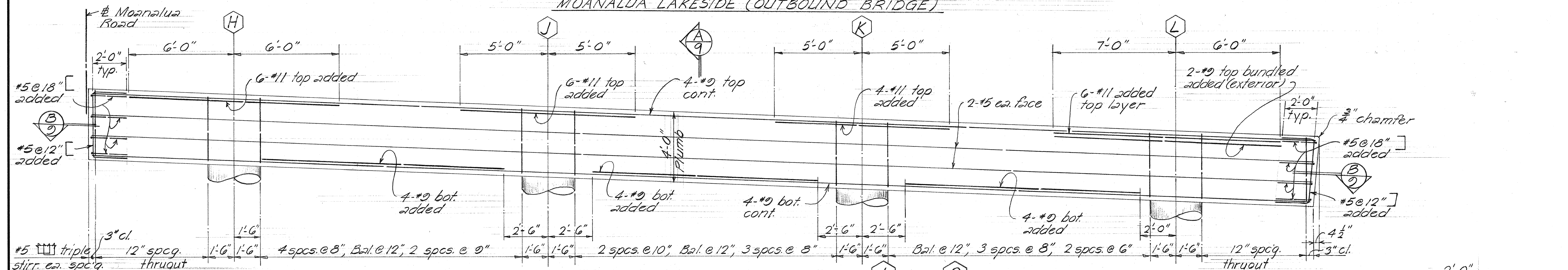
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-078-1(7)	1971	241	302



TYPICAL PIER CAP DETAILS - PIER LINE 1 & 2

Scale: $\frac{3}{8}$ " = 1'-0"

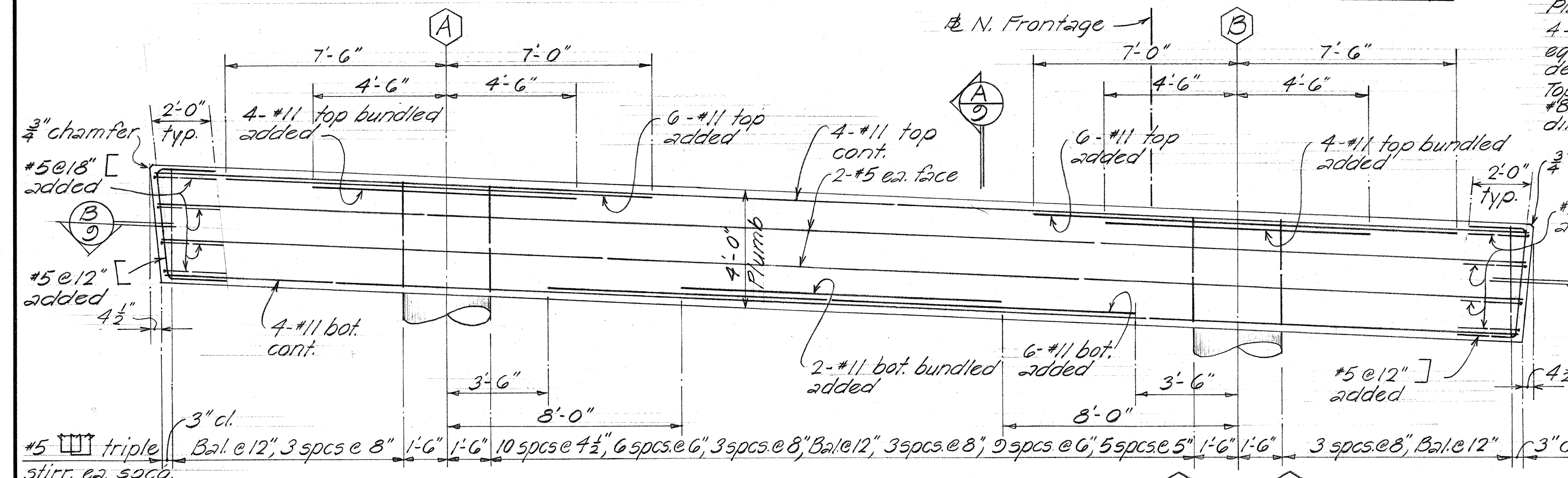
MOANALUA LAKESIDE (OUTBOUND BRIDGE)



TYPICAL PIER CAP DETAILS - PIER LINE 1 & 2

Scale: $\frac{3}{8}$ " = 1'-0"

MOANALUA LAKESIDE (INBOUND BRIDGE)

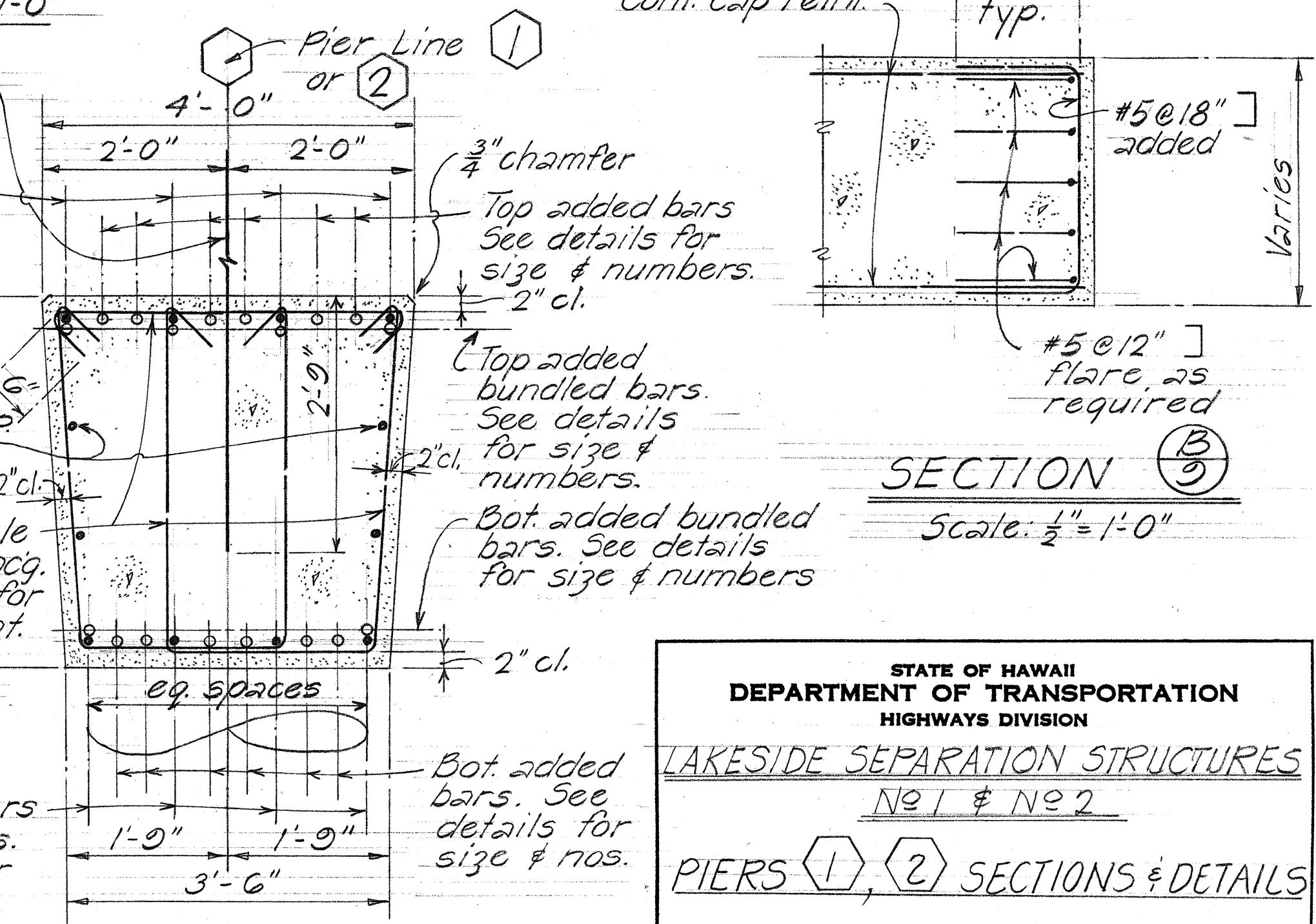


TYPICAL PIER CAP DETAILS - PIER LINE 1 & 2

(N. FRONTAGE)

Scale: $\frac{3}{8}$ " = 1'-0"

*8 x 5'-6" l.p. dowels. See Plan-Sht. #8 for location.
4- top cont. bars. 3 equal spaces. See details for size.
Top cap El. See Sht. #8. Level in this direction?



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LAKESIDE SEPARATION STRUCTURES
NOTES 1 & 2

PIERS 1, 2 SECTIONS & DETAILS

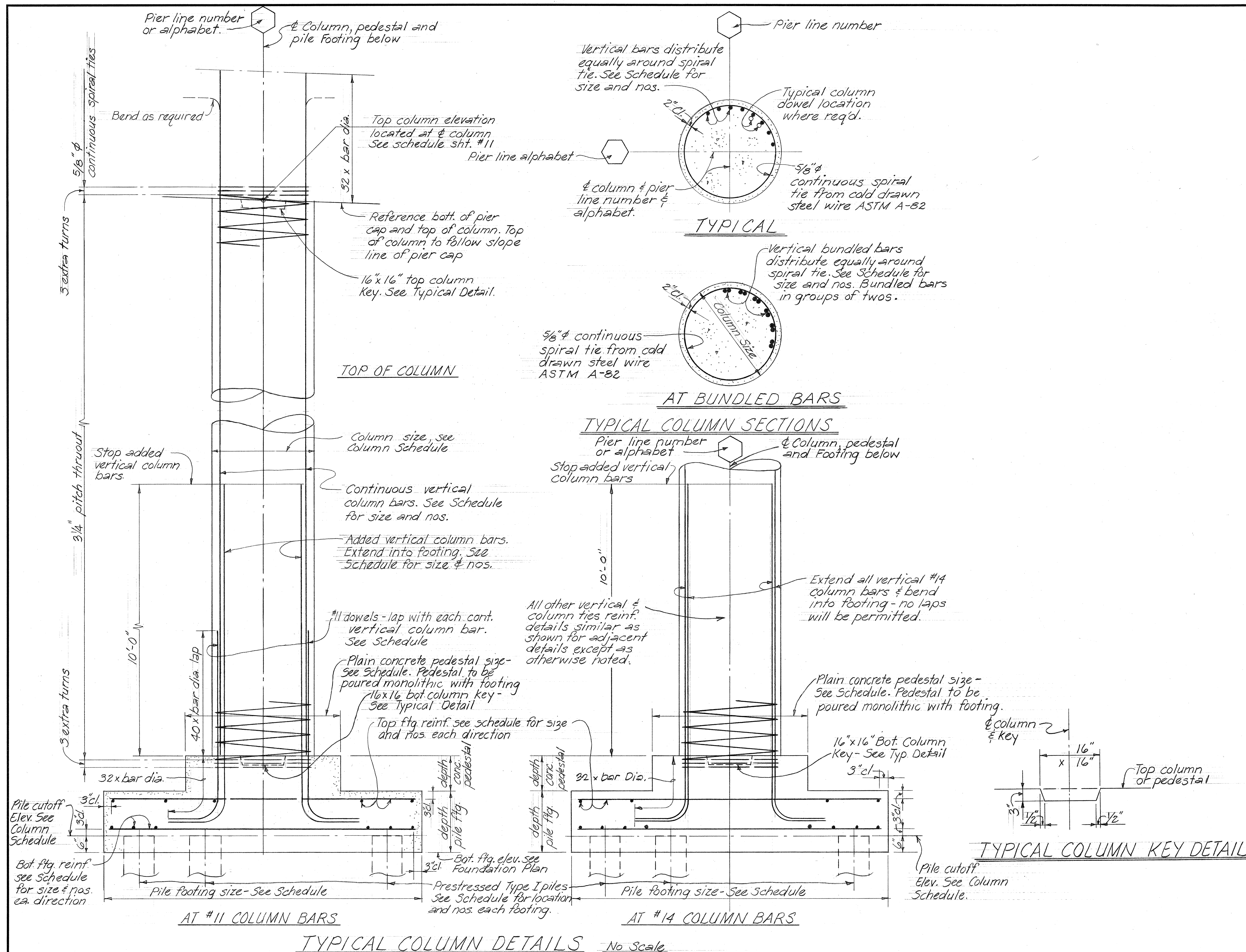
Moanalua Rd
Aug. 1970

F-078-1(7)

SHEET No. 9 OF 20 SHEETS

DATE	7/1/70
DESIGNED BY	W. J. M.
CHECKED BY	W. J. M.
NO.	1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
HAWAII	HAW.	F-078-1(7)	1971	242	302



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

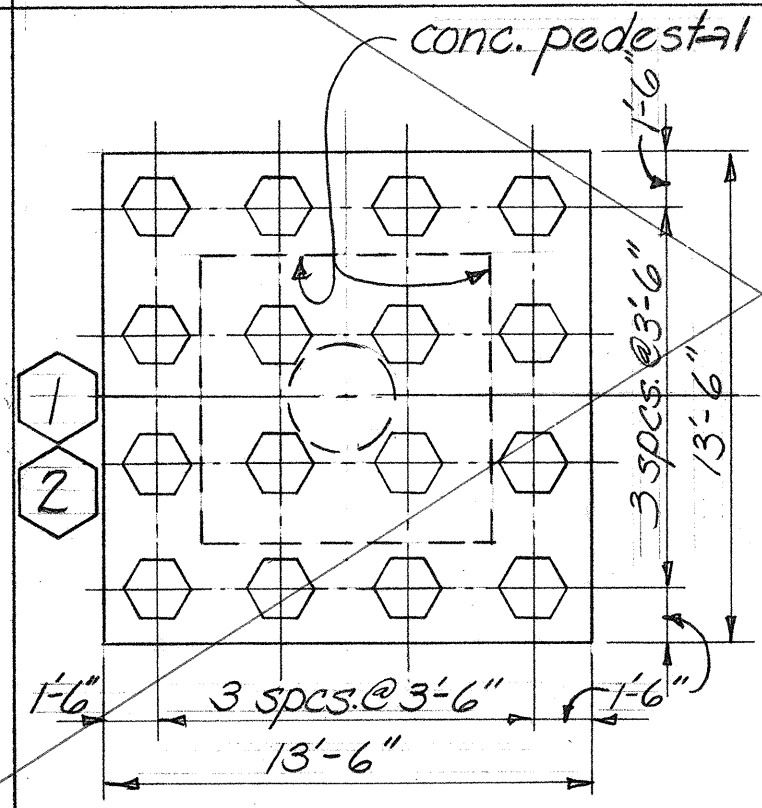
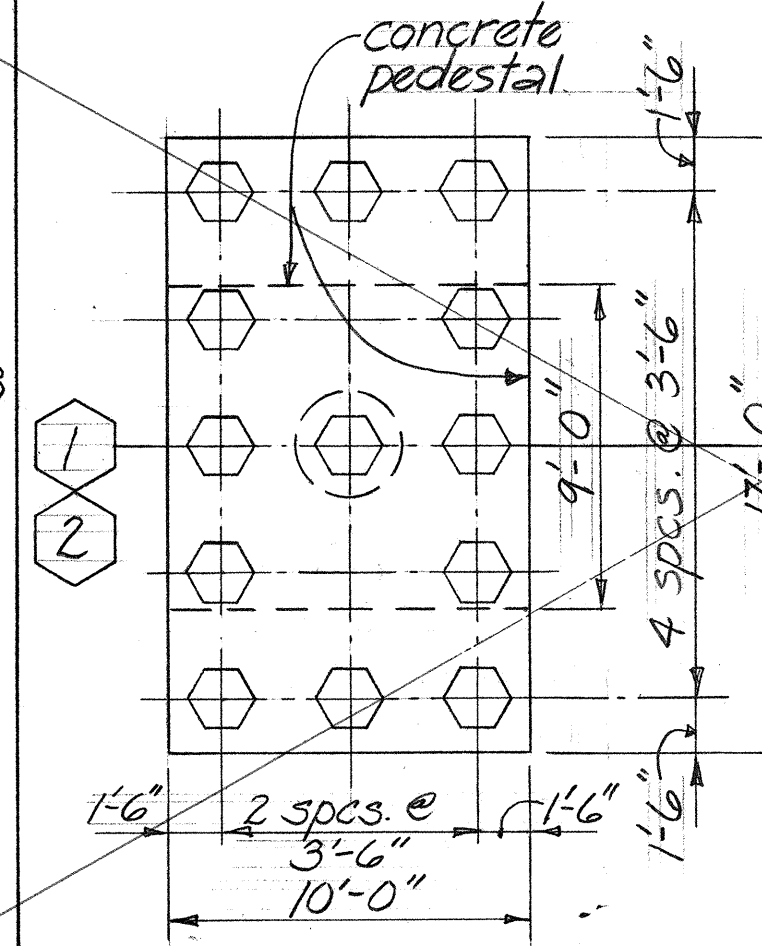
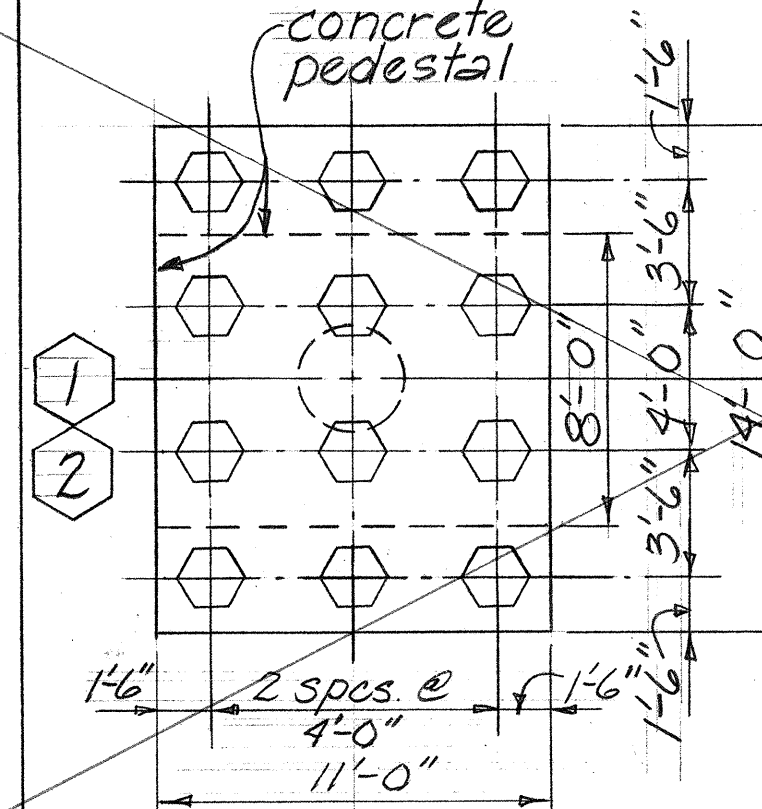
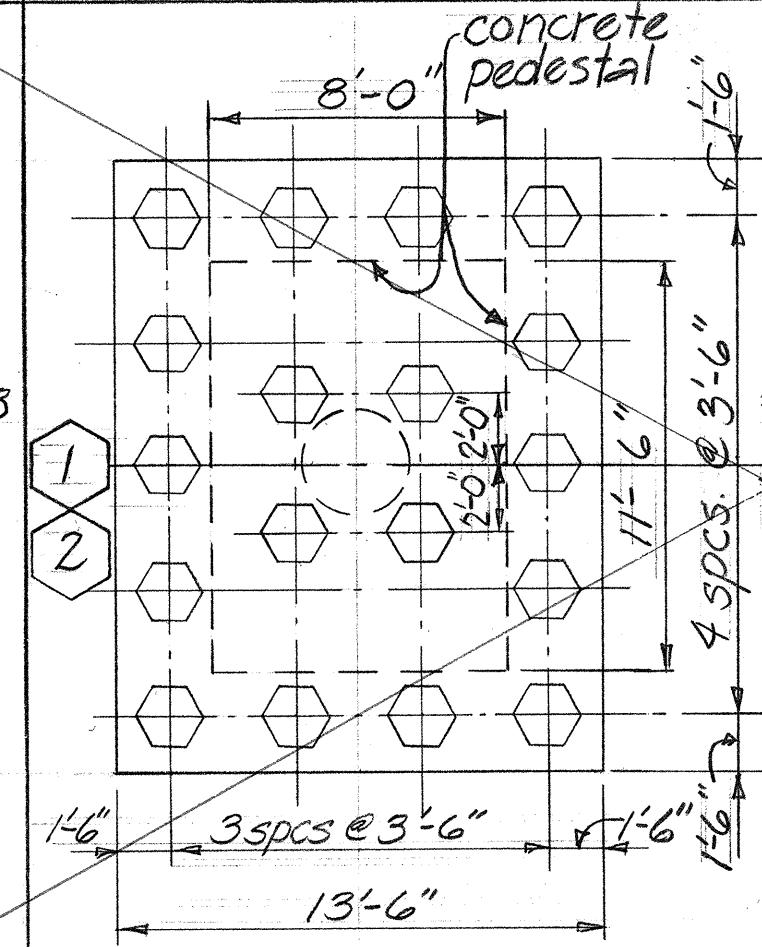
LAKESIDE SEPARATION STRUCTURE
NO 1 & NO 2
PIER COLUMN DETAILS

Moanalua Rd. F-078-1(7)
Aug., 1970

SHEET No. 10 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-078-1(7)	1971	243	302

PILE FOOTING SCHEDULE

MARK	DESCRIPTION	DEPTH PILE FTG.	BOTTOM REINFORCEMENT		TOP REINF.
			LONG. BARS	SHORT BARS	EA. WAY
PF-16		2'-6"	23-#10	23-#10	#5 @ 18"
PF-13		2'-6"	17-#10	14-#10	#5 @ 18"
PF-12		2'-6"	12-#10	13-#10	#5 @ 18"
PF-18		2'-6"	35-#10	25-#10	#5 @ 18"

NOTE: See Foundation Plan for location of Test Piles

PIER COLUMN SCHEDULE

PIER COLUMN NUMBERS		STRUCTURE No 2				STRUCTURE No 1																	
		B-1	B-2	A-1	A-2	L-1	C-1	D-1	E-1	F-1	G-1	H-1	J-1	K-1	C-2	D-2	E-2	F-2	G-2	H-2	J-2	K-2	L-2
LOCATION		124.27	120.18	125.62	121.14	127.66	135.50	134.46	133.42	132.38	131.34	130.39	129.48	128.57	130.78	129.93	129.08	128.23	127.38	126.63	125.92	125.21	124.50
TOP COLUMN ELEVATION (AT COLUMN)																							
SOFFIT OF PIER CAP																							
TOP OF COLUMN PEDESTAL																							
DOWELS (EACH COLUMN)																							
CONC. PEDESTAL TYPE (AT EACH COLUMN)																							
PILE FOOTING TYPE																							
PILE CUT-OFF ELEVATION																							
PILE TIP ELEVATION																							

Note: All vertical column reinforcement to be ASTM A615 Grade 60.
All #14 column steel to be continuous from footing unless Contractor elects to butt weld bars at splices. No doweling of #14 bars will be permitted.

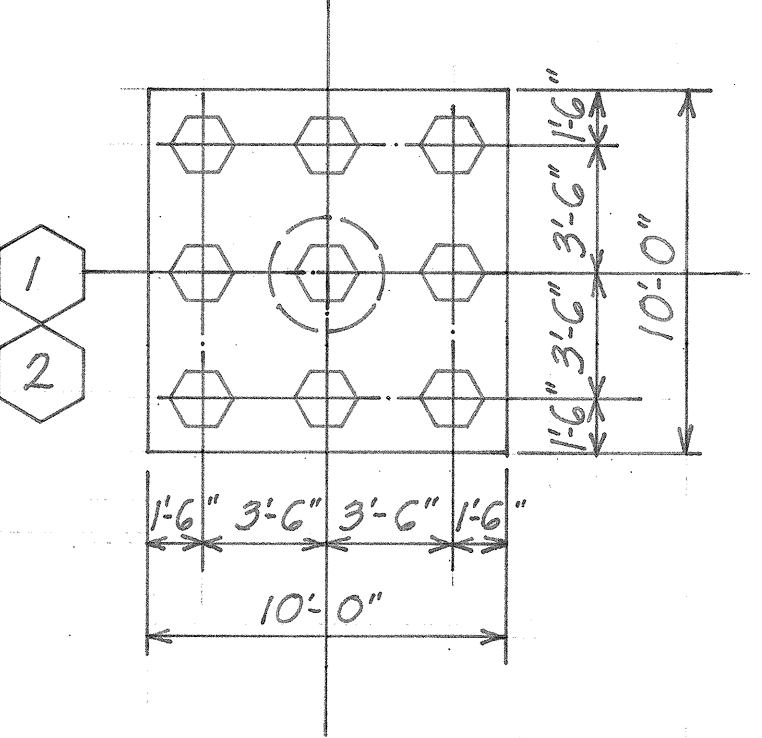
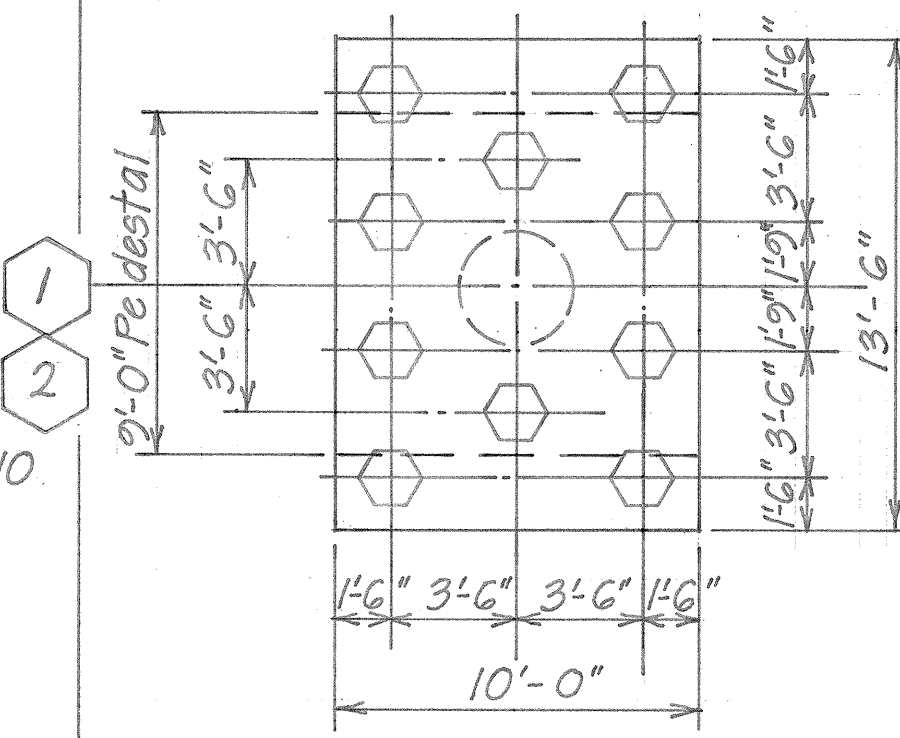
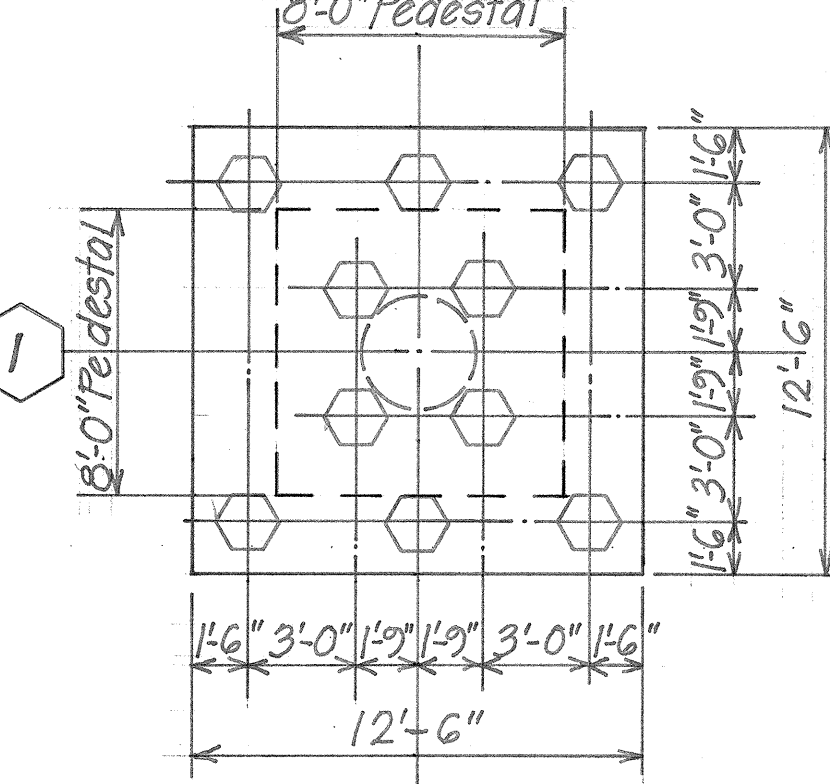
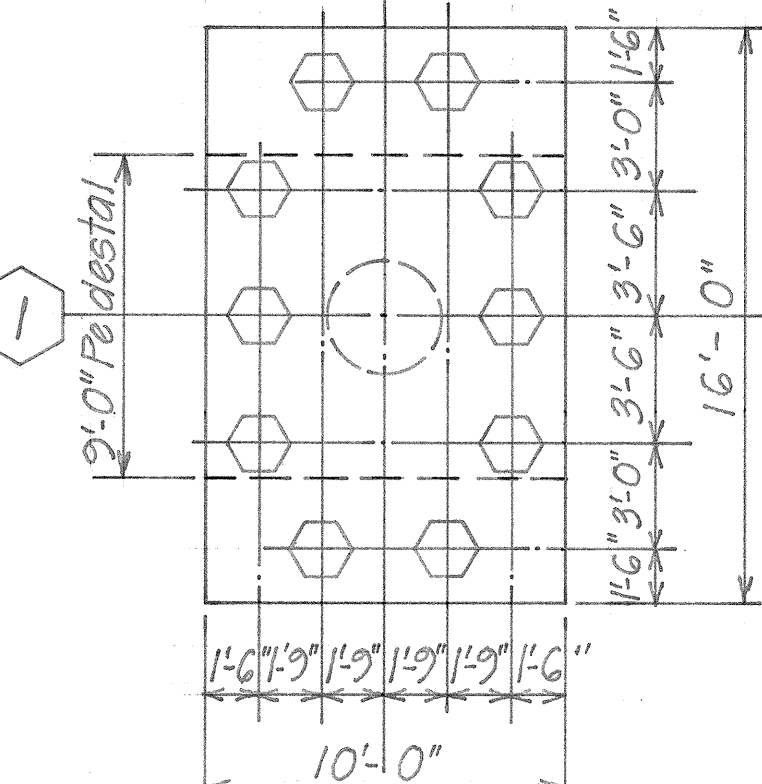
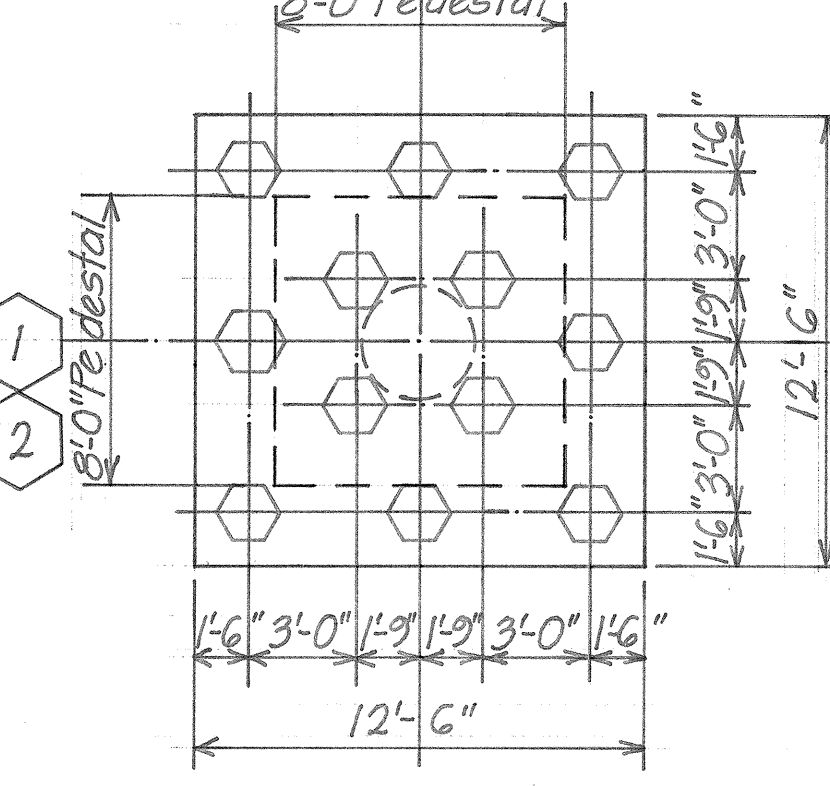
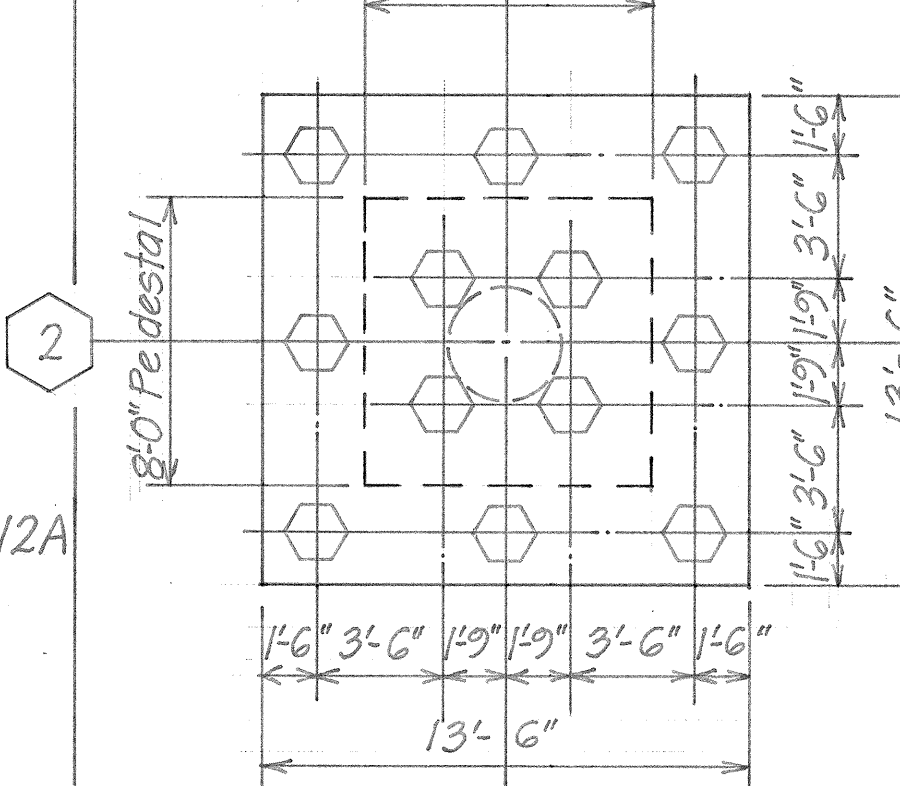
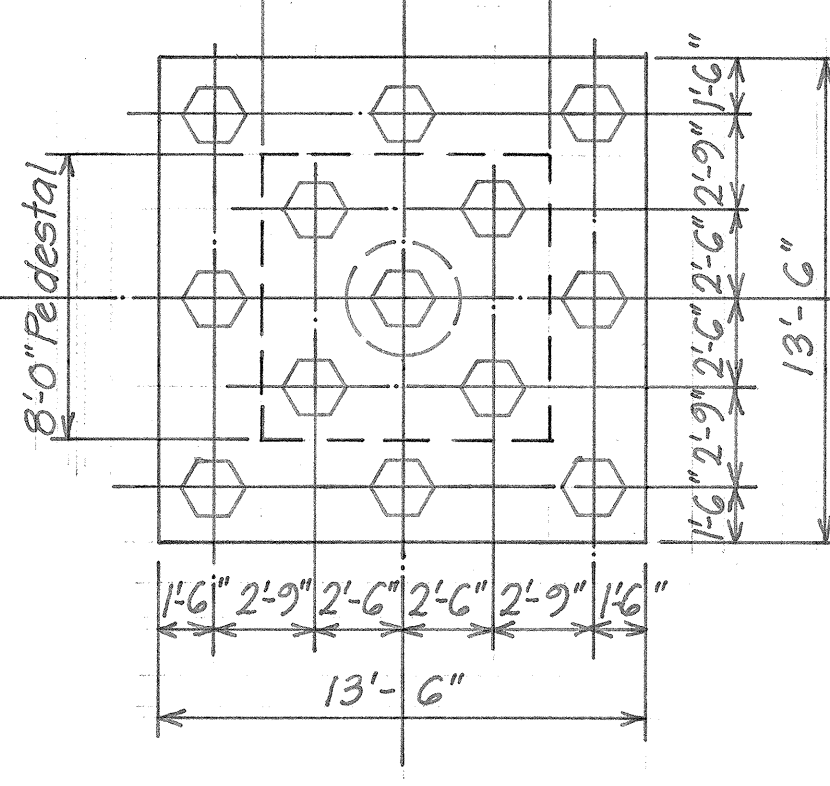
COLUMN CONCRETE PEDESTAL SCHEDULE

LOCATION	SIZE		DEPTH	REMARKS
	WIDTH	LENGTH		
P-1	8'-0"	8'-0"	1'-6"	
P-2	9'-0"	10'-0"	1'-6"	
P-3	8'-0"	11'-0"	1'-6"	
P-4	8'-0"	11'-6"	1'-6"	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
LAKESIDE SEPARATION STRUCTURES
No. 1 & No. 2
COLUMN & FOUNDATION SCHEDULES
Moanalua Rd
Aug. 1970
F-078-1(7)

PILE FOOTING SCHEDULE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-078-1(7)	1971	CO 243 S-1	302

MARK	DESCRIPTION	DEPTH PILE FTG.	BOTTOM REINFORCEMENT		TOP REINF. EA. WAY	MARK	DESCRIPTION	DEPTH PILE FTG.	BOTTOM REINFORCEMENT		TOP REINF. EA. WAY
			LONG BARS	SHORT BARS					LONG BARS	SHORT BARS	
PF-9		3'-6"	15-#8	15-#8	7-#5	PF-10		2'-6"	17-#9	18-#9	#5 @ 18"
PF-10A		2'-6"	20-#10	20-#10	#5 @ 18"	PF-10B		2'-6"	19-#9	17-#9	None
PF-12		2'-6"	20-#10	20-#10	#5 @ 18"	PF-12A		2'-6"	23-#10	23-#10	#5 @ 18"
PF-13		2'-6"	32-#9	32-#9	#5 @ 18"						

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LAKESIDE SEPARATION STRUCTURES
No 1 & No 2
FOUNDATION SCHEDULES

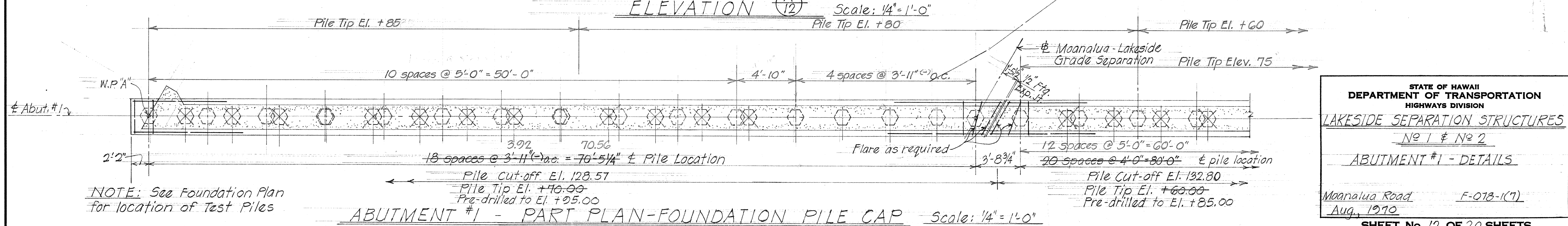
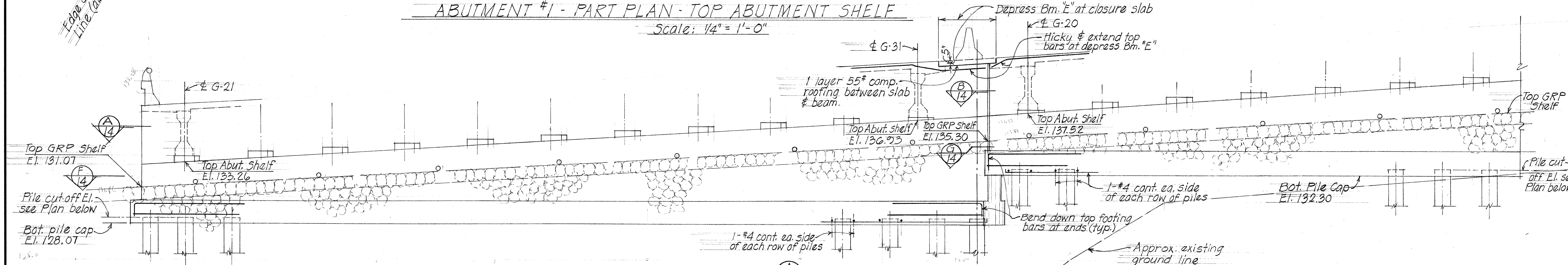
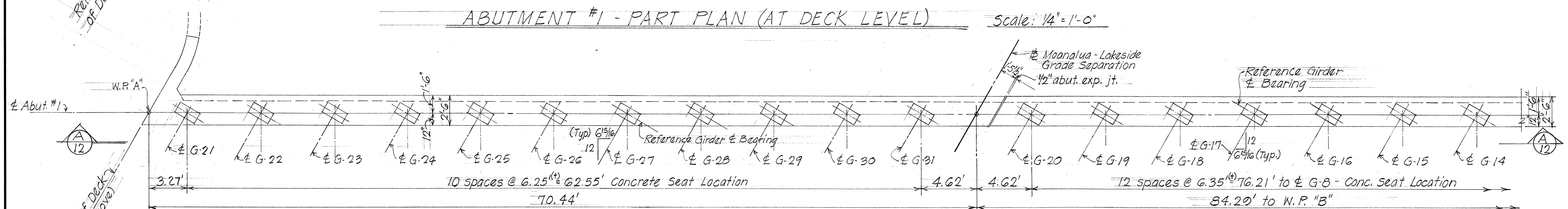
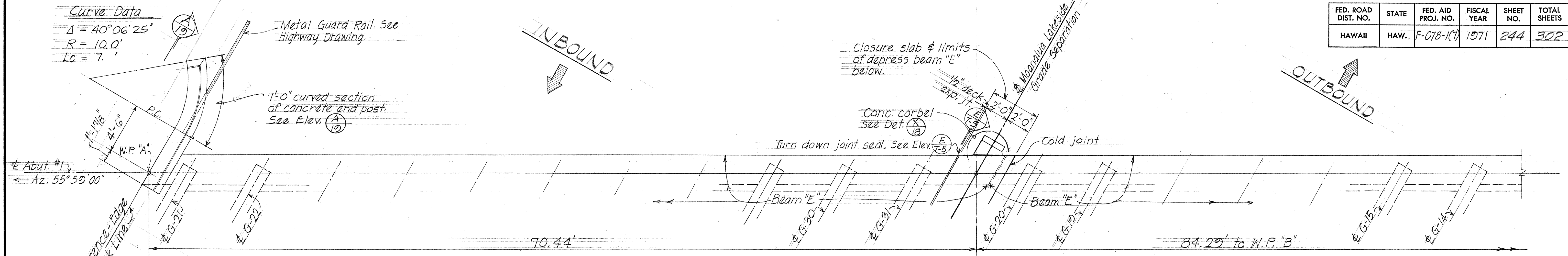
Moanalua Rd
Aug, 1970

F-078-1(7)

SHEET No. OF SHEETS

CO 243 S-1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-078-1(7)	1971	244	302



NOTE: See Foundation Plan for location of Test Piles

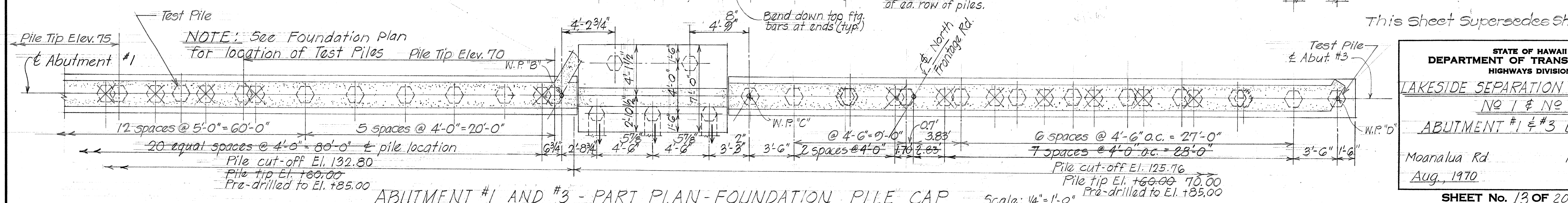
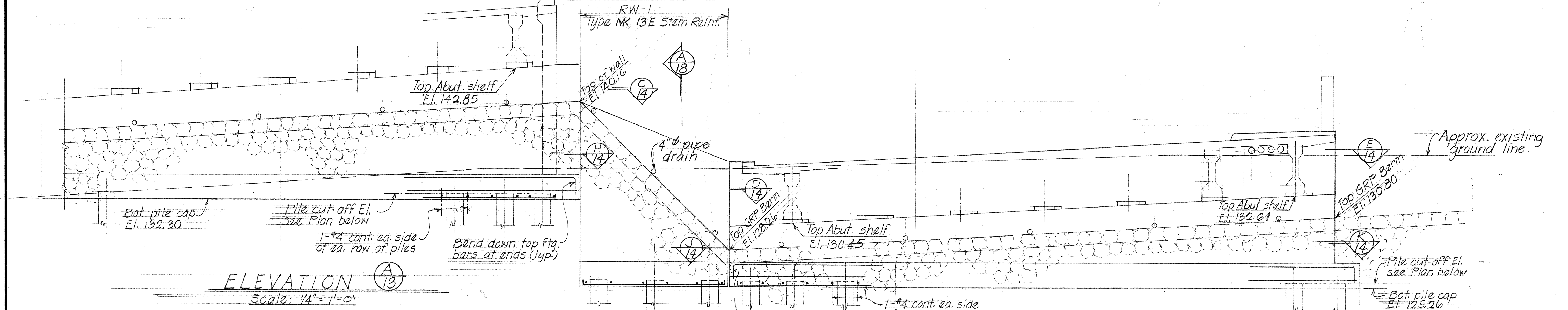
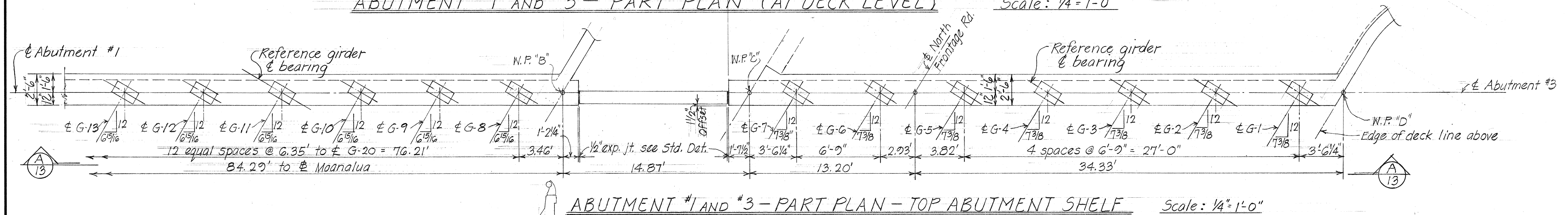
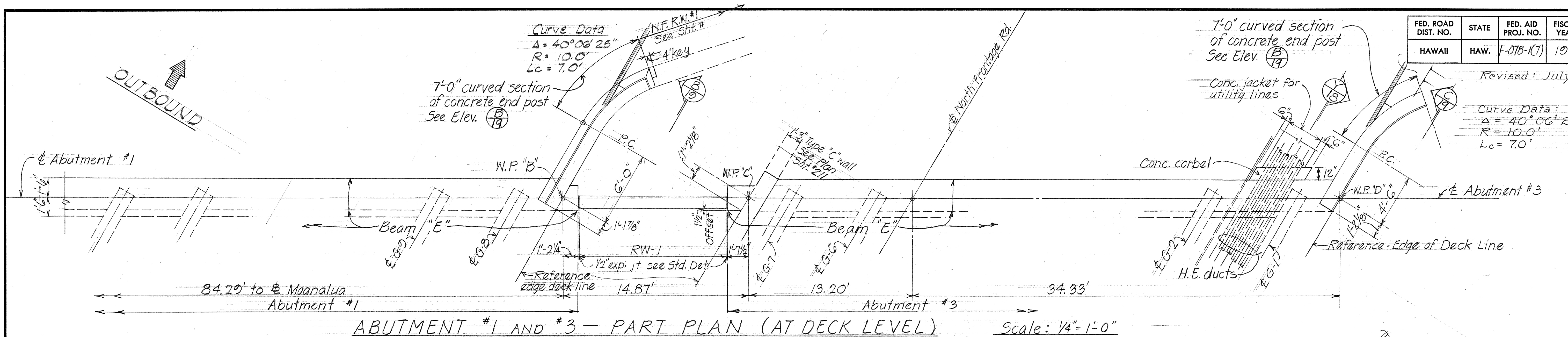
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
LAKESIDE SEPARATION STRUCTURES
No. 1 & No. 2
ABUTMENT #1 - DETAILS
Moanalua Road F-078-1(7)
Aug. 1970
SHEET No. 12 OF 20 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	Aug. 70
DESIGNED 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.	F-078-1(1)	1971	245	302

Revised: July 20, 1971

Curve Data:
 $\Delta = 40^{\circ}06'25''$
 $R = 10.0'$
 $L_c = 7.0'$



This Sheet Supersedes Sht. No. 245

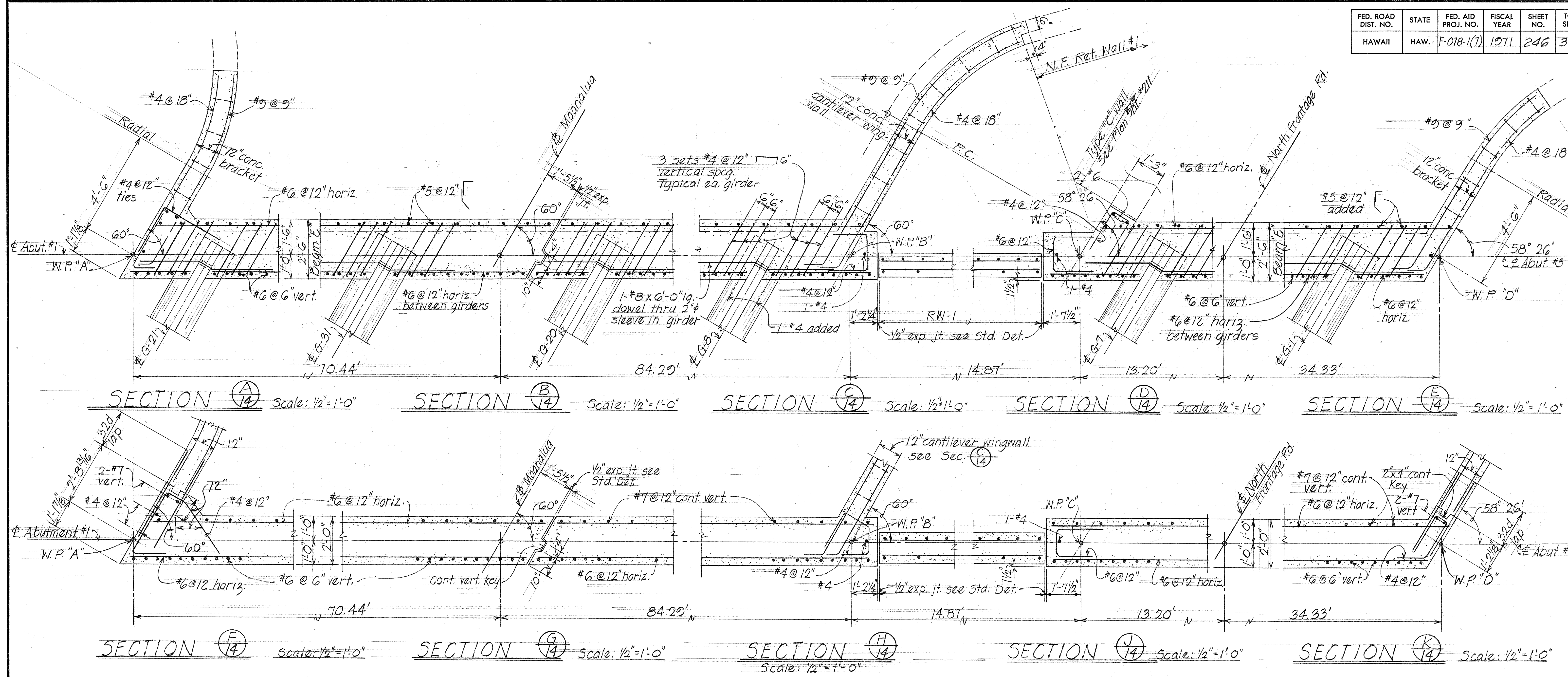
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
 LAKESIDE SEPARATION STRUCTURES
 NO 1 & NO 2
 ABUTMENT #1 & #3 DETAILS
 Moanalua Rd. F-078-1(7)
 Aug. 1970

SHEET NO. 13 OF 20 SHEETS

ADD. 245

SURVEY PLOTTED BY	DATE
DRAWN BY	Aug 70
DESIGNED 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.	F-078-1(7)	1971	246	302



NOTE: Refer to sht. DB-207-2 for standard $\frac{1}{2}$ " expansion joint and key details.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LAKESIDE SEPARATION STRUCTURES
NO 1 & NO 2

ABUTMENT #1 & #3 SECTIONS & DETAILS

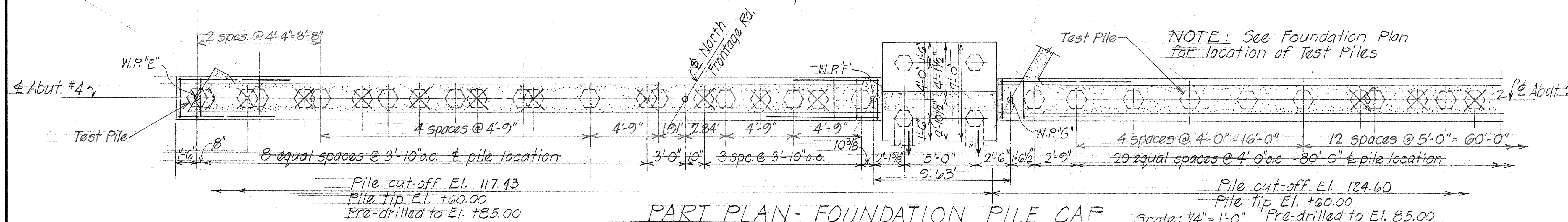
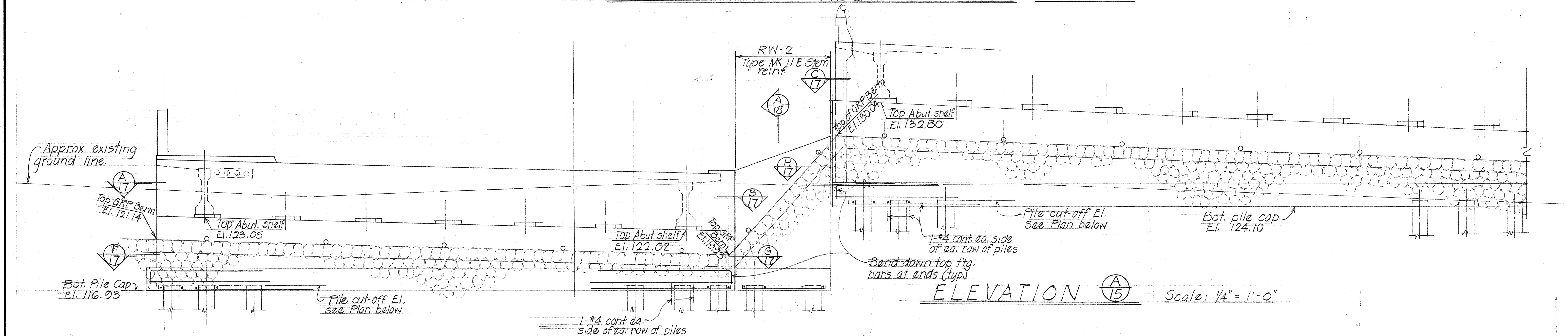
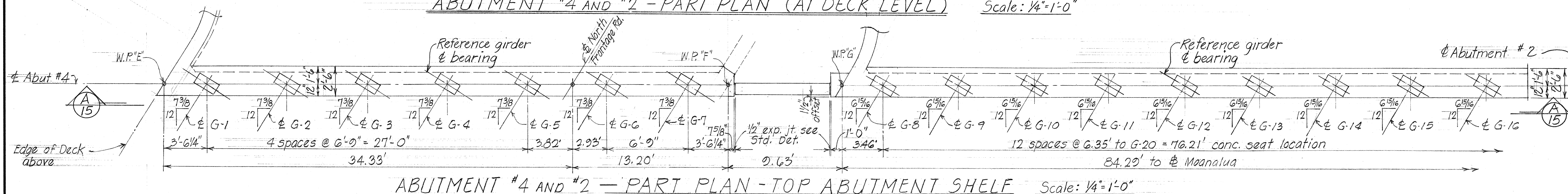
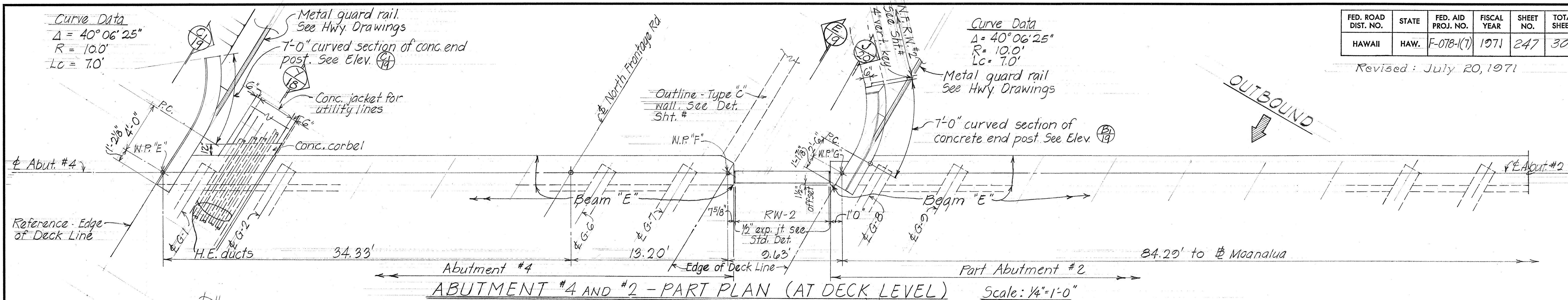
Moanalua Rd. F-078-1(7)
Aug, 1970

SHEET No. 14 OF 20 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	Aug 70
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-078-1(7)	1971	247	302

Revised: July 20, 1971



This Sheet Supersedes Sht. No. 247

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

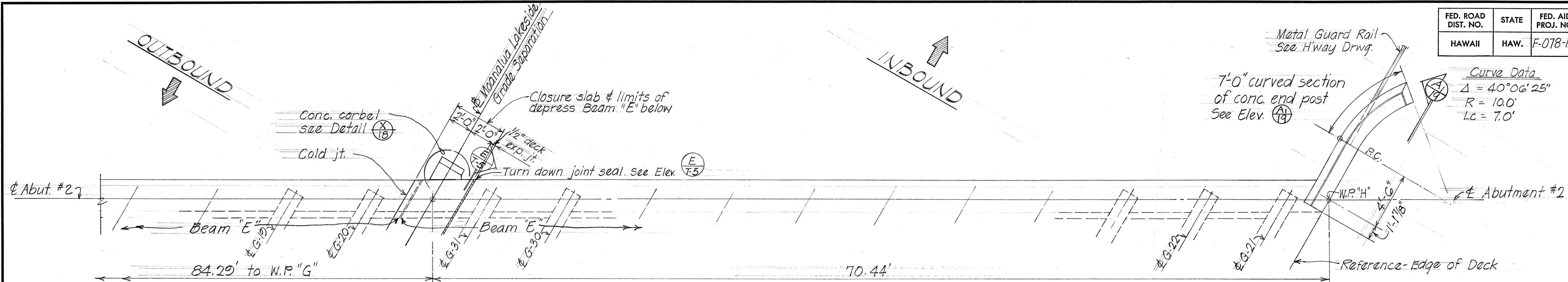
LAKESIDE SEPARATION STRUCTURES
NO 1 & NO 2
ABUTMENT #2 & #4 DETAILS

Moanalua Rd F-078-1(7)
Aug, 1970

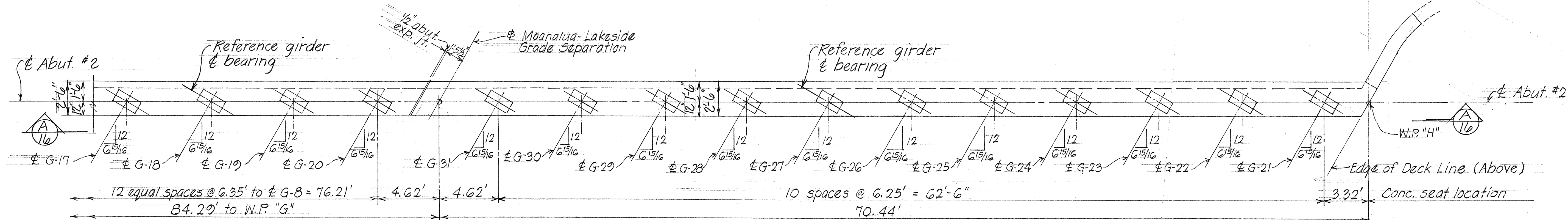
SHEET No. 15 OF 20 SHEETS

ADD. 247

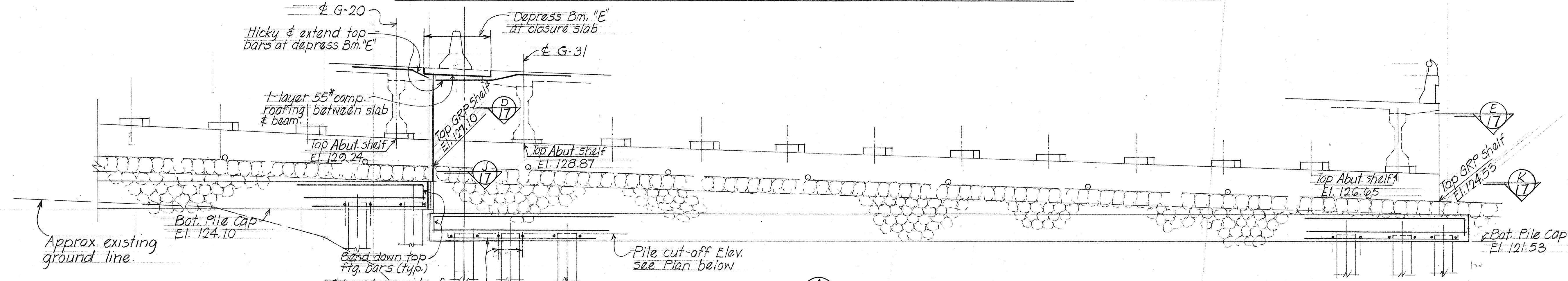
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-078-1(7)	1971	248	302



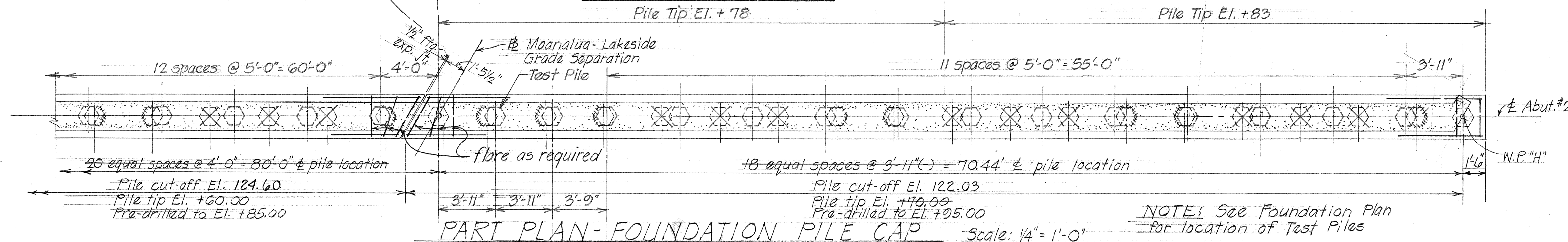
ABUTMENT #2 - PART PLAN (AT DECK LEVEL) Scale: 1/4" = 1'-0"



ABUTMENT #2 - PART PLAN - TOP ABUTMENT SHELF Scale: 1/4" = 1'-0"



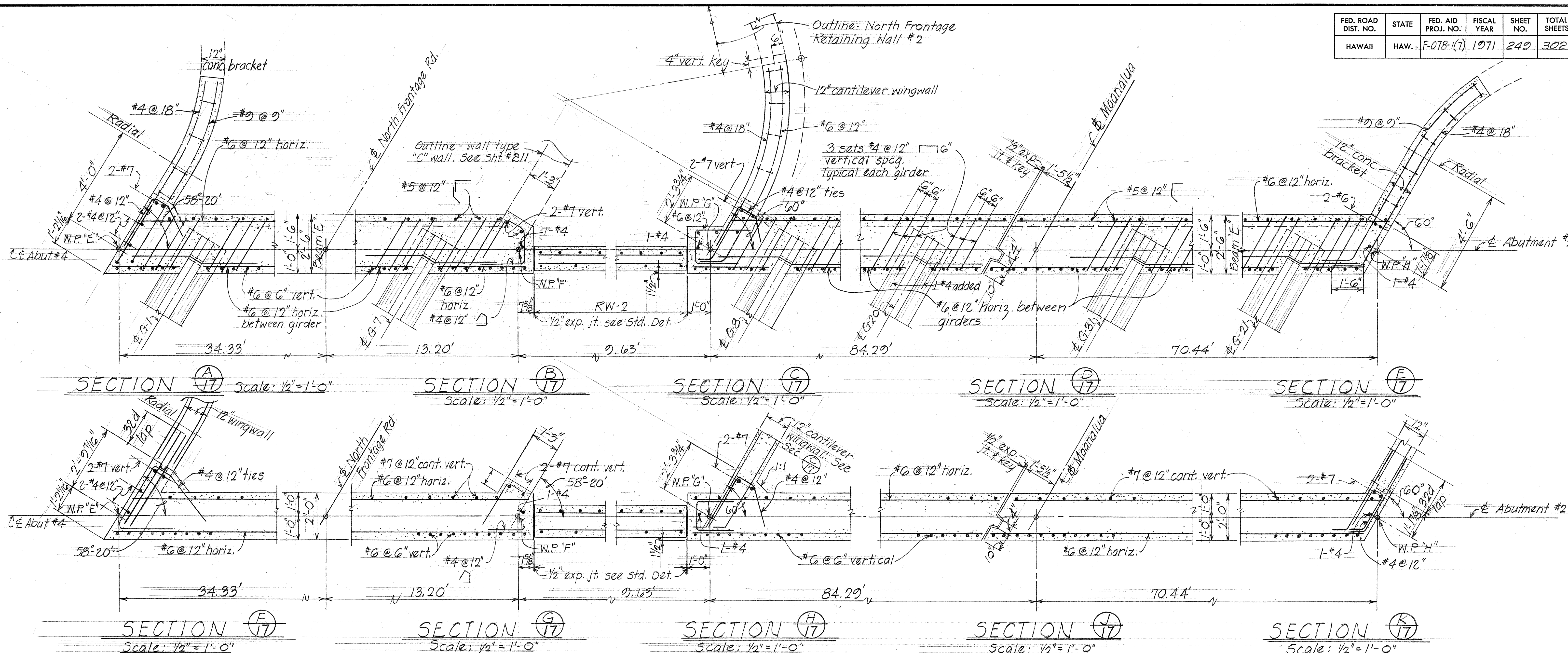
ELEVATION Scale: 1/4" = 1'-0"



PART PLAN - FOUNDATION PILE CAP Scale: 1/4" = 1'-0"

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
LAKESIDE SEPARATION STRUCTURES No. 1 & No. 2	
ABUTMENT #2 DETAILS	
Moanalua Rd.	F-078-1(7)
Aug. 1970	
SHEET No. 10 OF 20 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-078-1(7)	1971	249	302

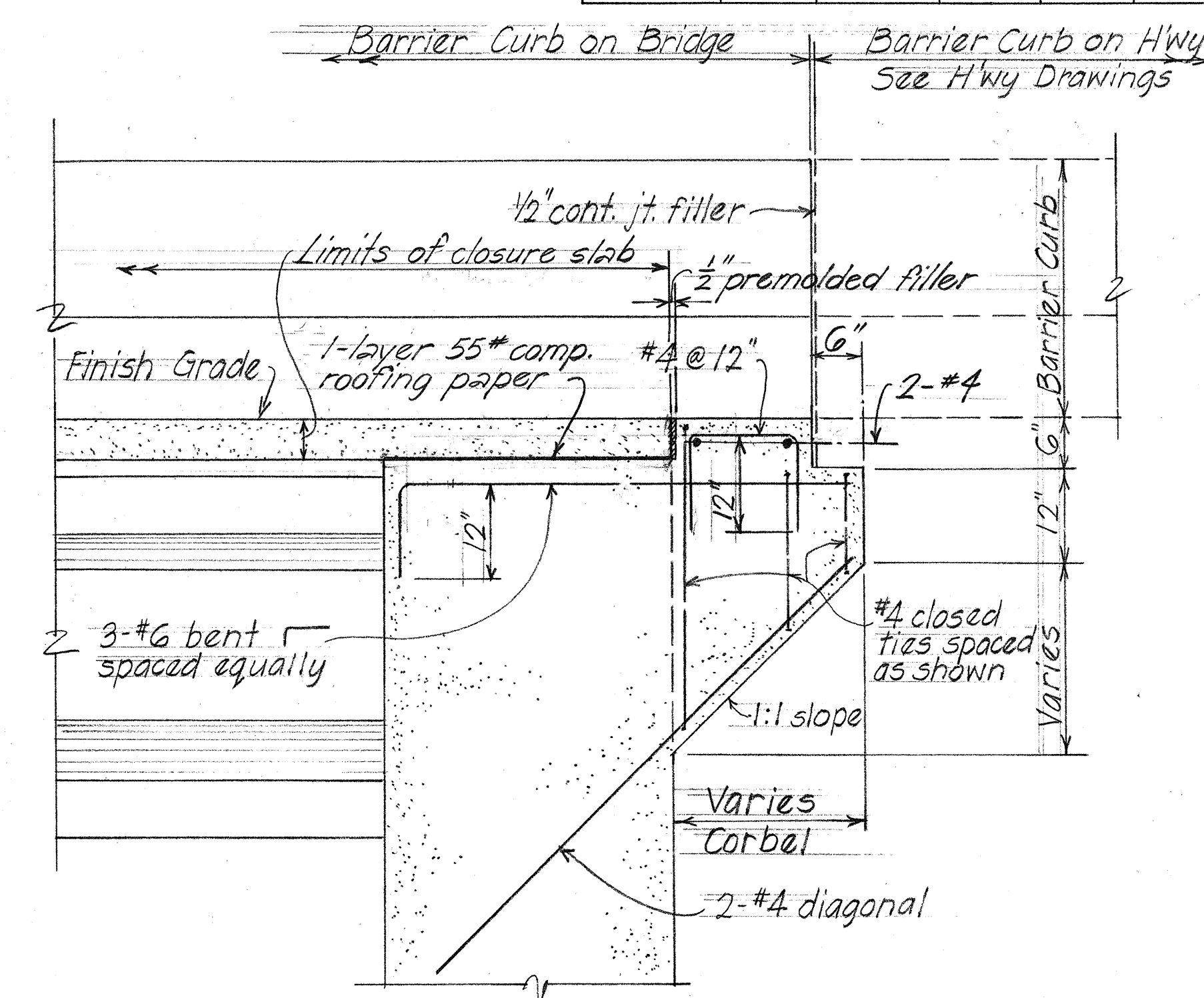


NOTE: Refer to sht. DB-207-2 for Standard 1/2" expansion joint & key details.

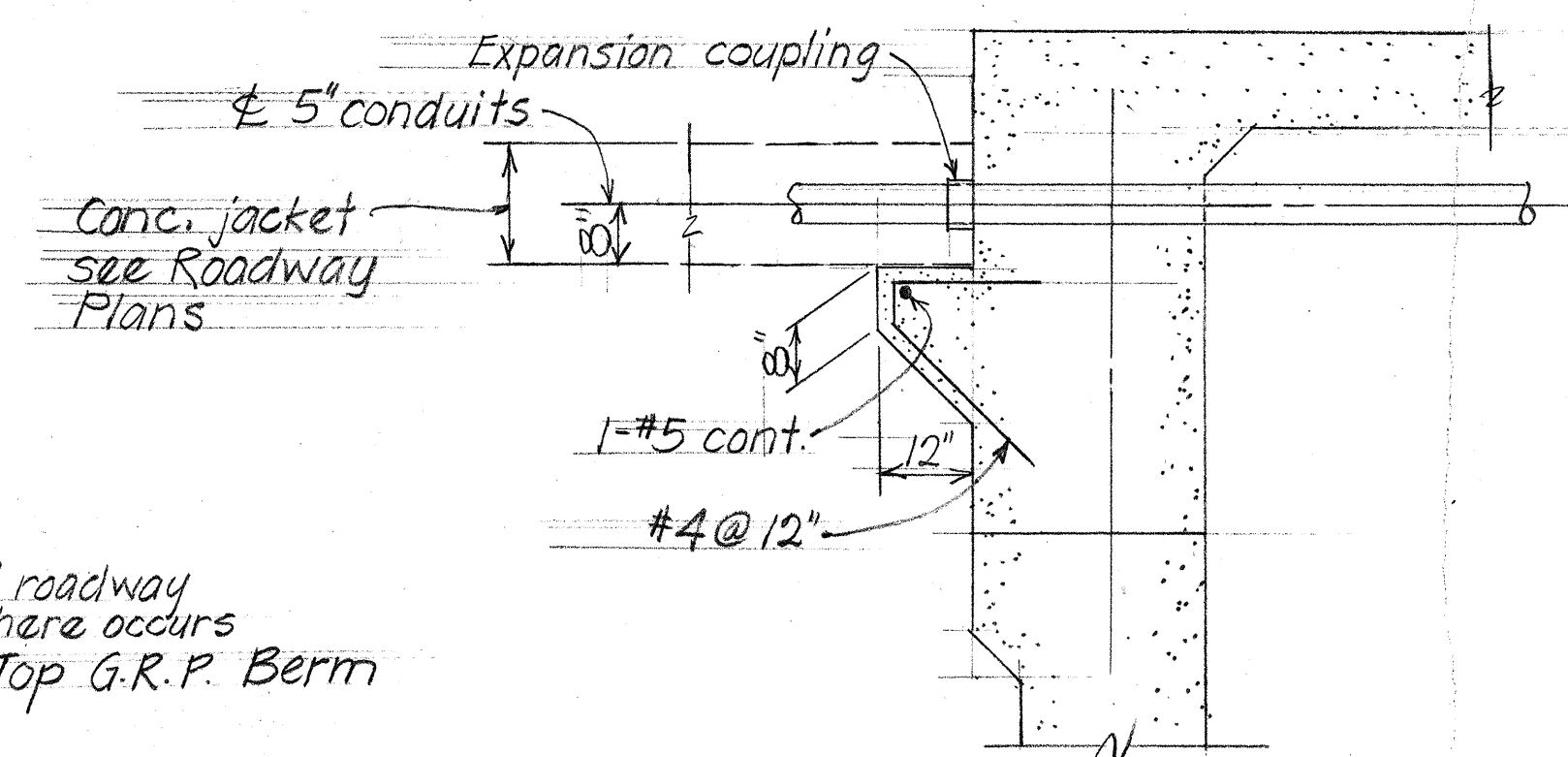
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
LAKESIDE SEPARATION STRUCTURES No. 1 & No. 2	
ABUTMENT #2 & #4 SECTIONS & DETAILS	
Moanalua Rd.	F-078-1(7)
Aug, 1970	
SHEET No. 17 OF 20 SHEETS	

SURVEY PLOTTED BY	DATE
DRAWN BY	Aug 70
DESIGNED BY	MT
QUANTITIES BY	MT
CHECKED BY	JB
ORIGINAL PLAN	No.
NOTE BOOK	

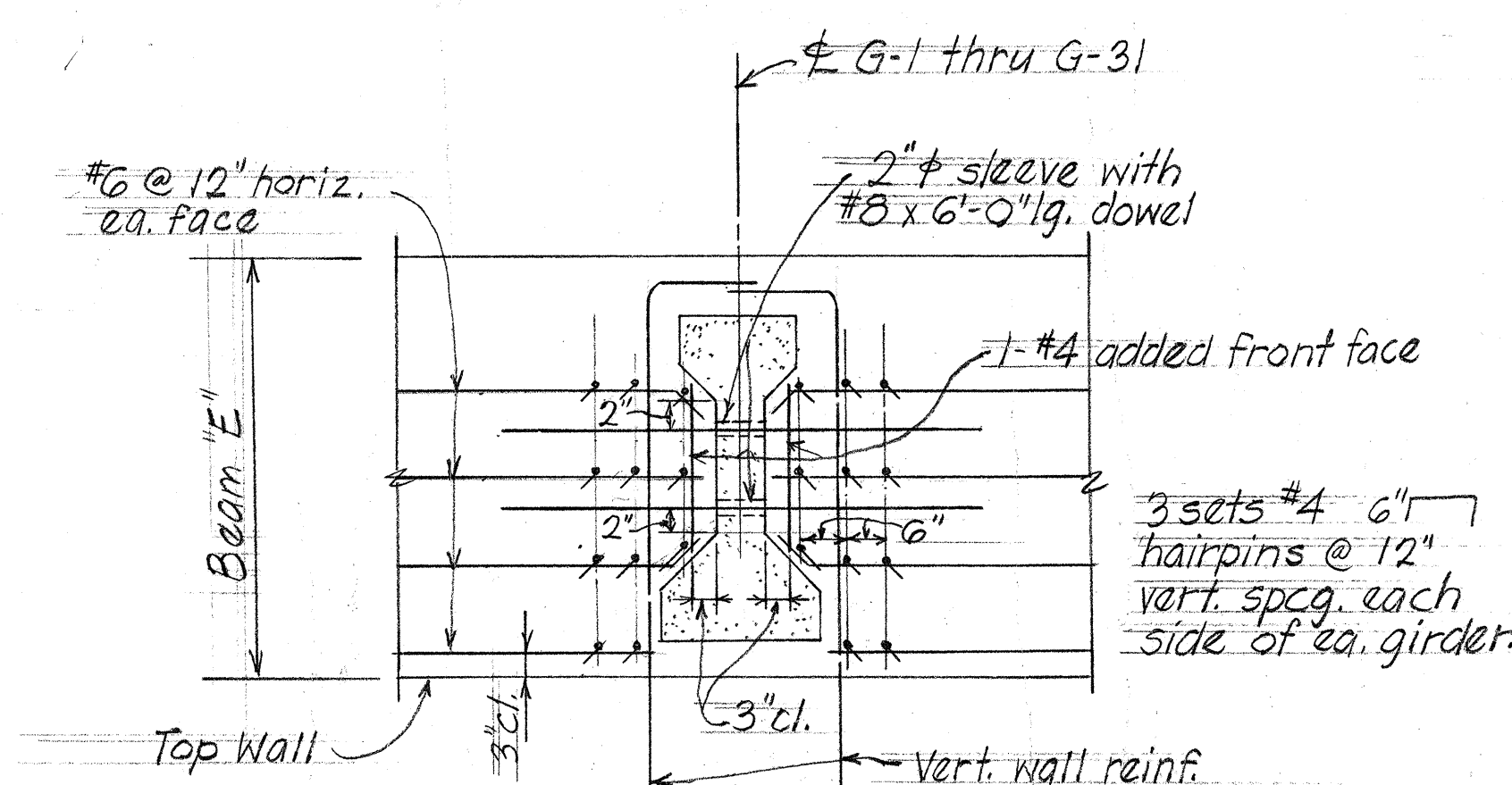
ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
NOTE BOOK	DRAWN BY <u>NY</u>	" <u>4/4/75</u>
	TRACED BY _____	" _____
	DESIGNED BY <u>D O M T</u>	" <u>4</u>
	QUANTITIES BY _____	" _____
No. _____	CHECKED BY <u>J O P Y</u>	" <u>4</u>



DETAIL  Scale: $\frac{3}{4}" = 1'-0"$



TYPICAL SECTION
AT UTILITY CONDUITS
Scale: $\frac{1}{2}" = 1'-0"$



ELEVATION (C
18)
Scale: $\frac{1}{2}" = 1' - 0"$

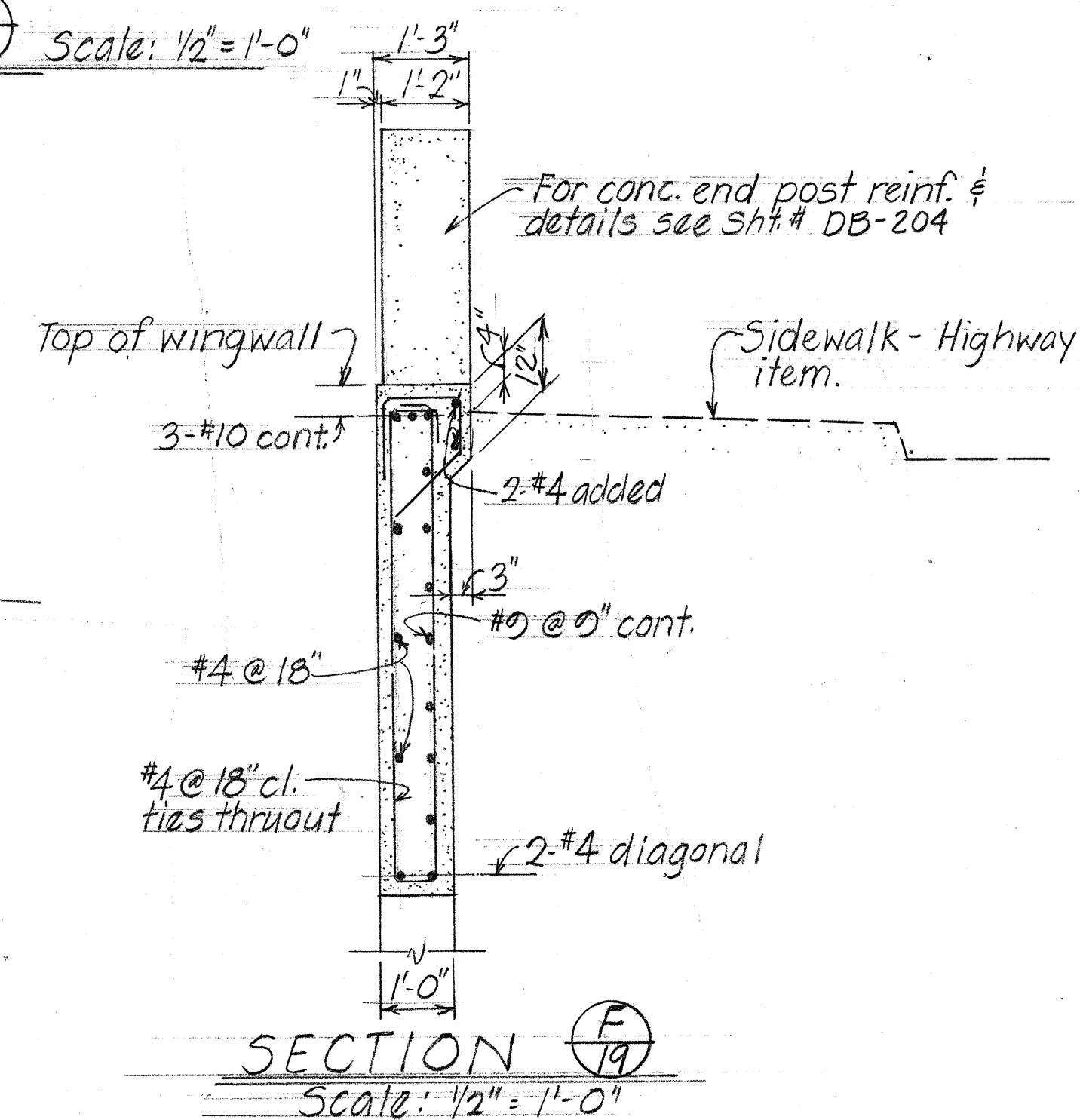
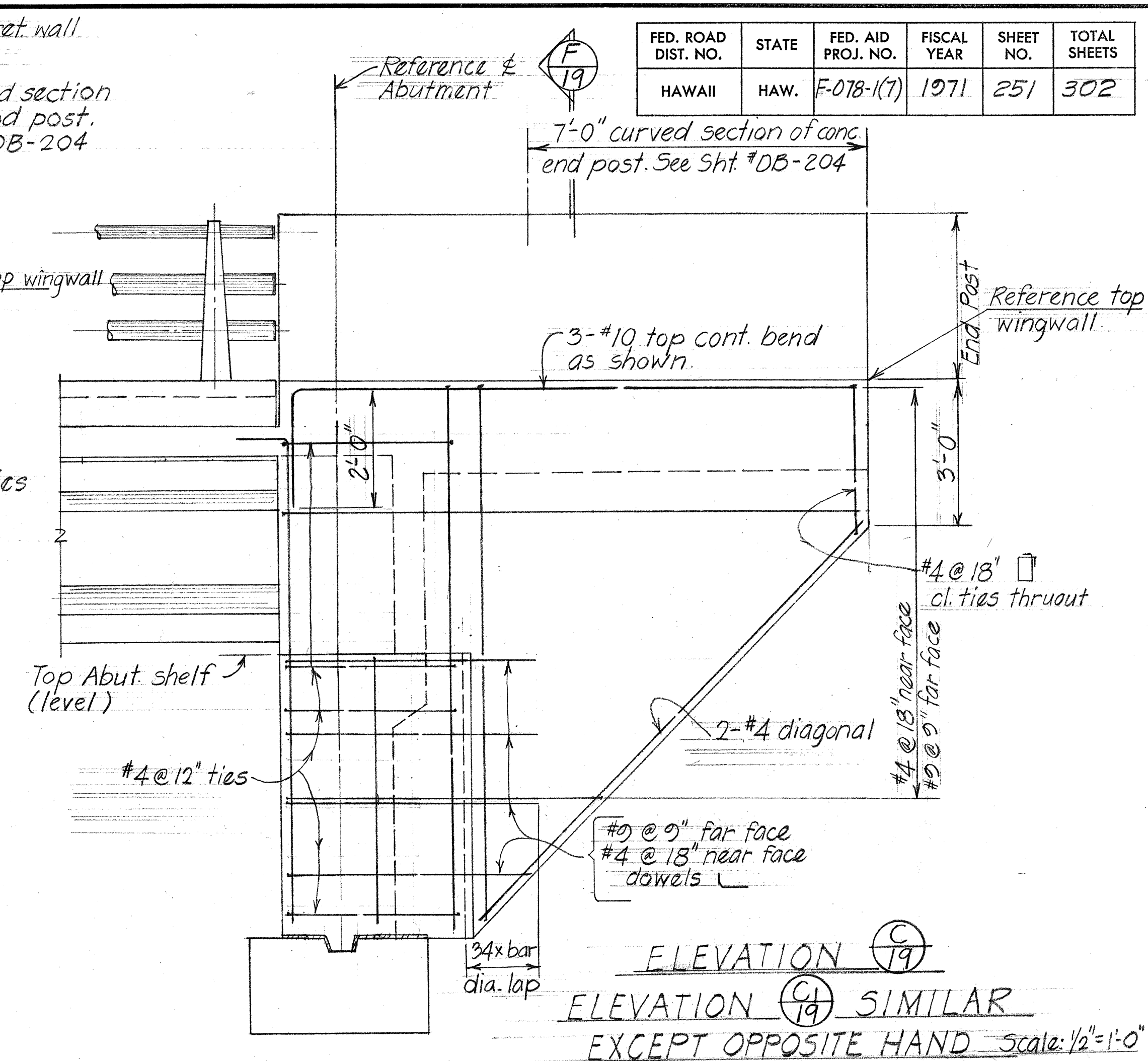
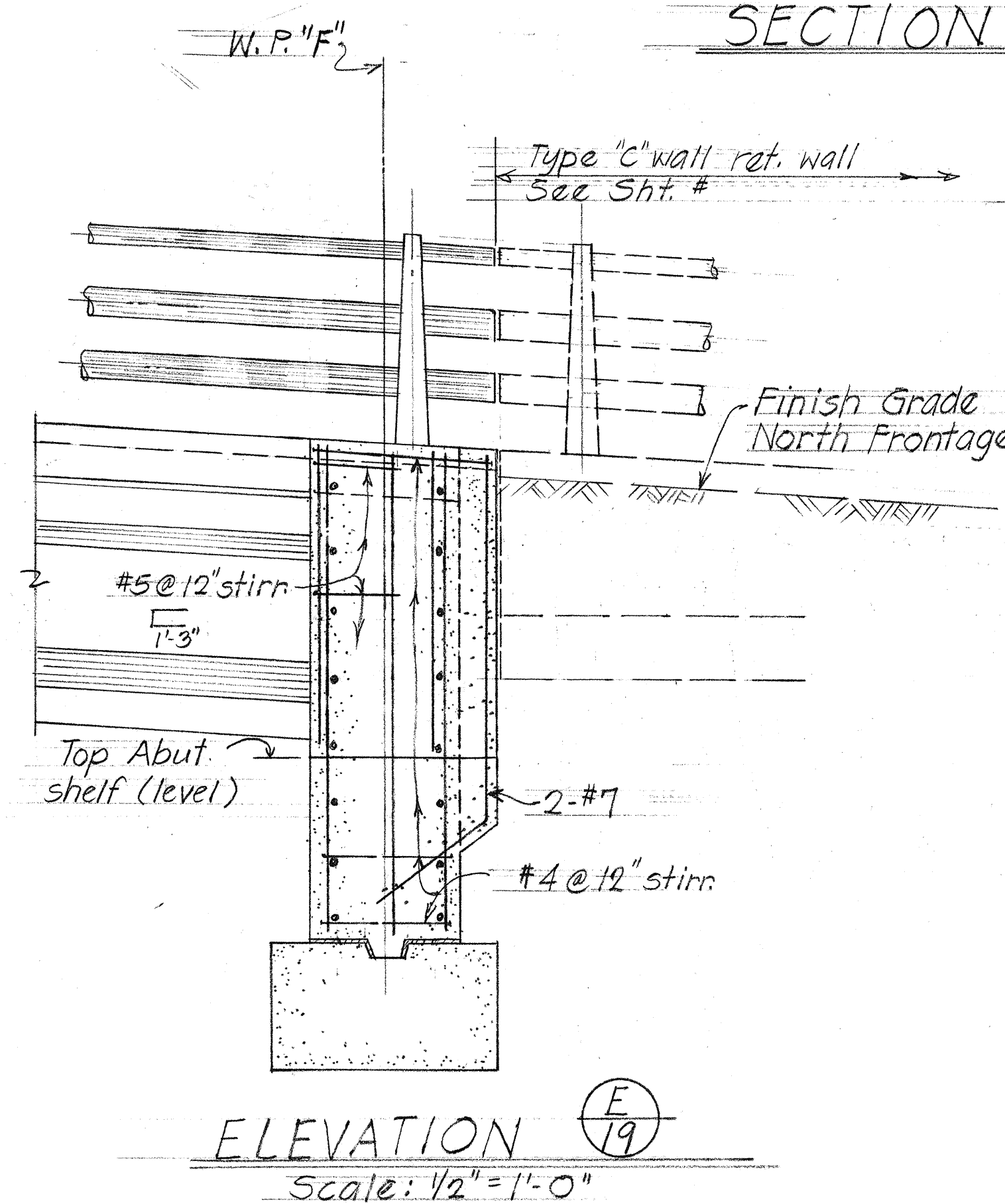
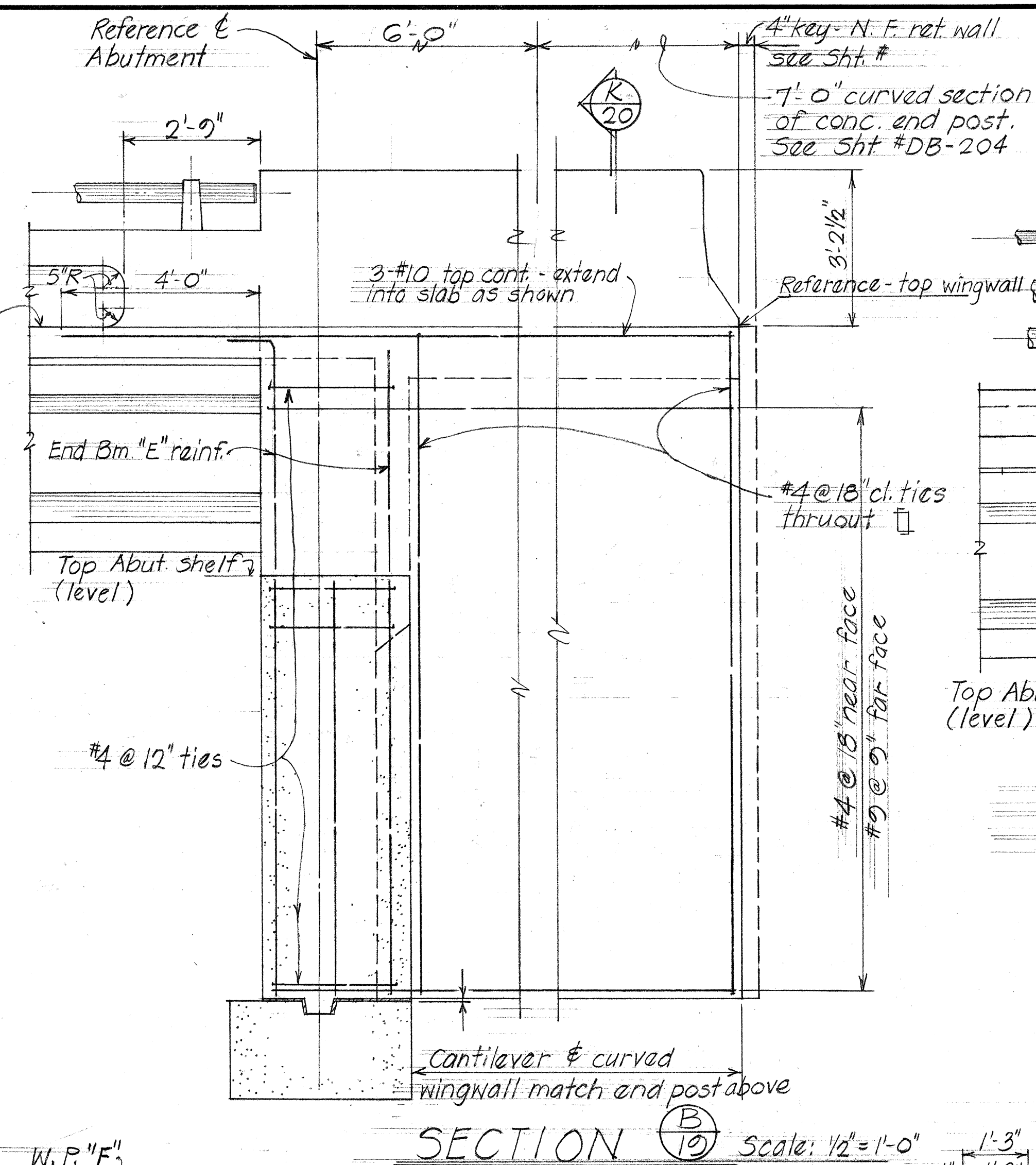
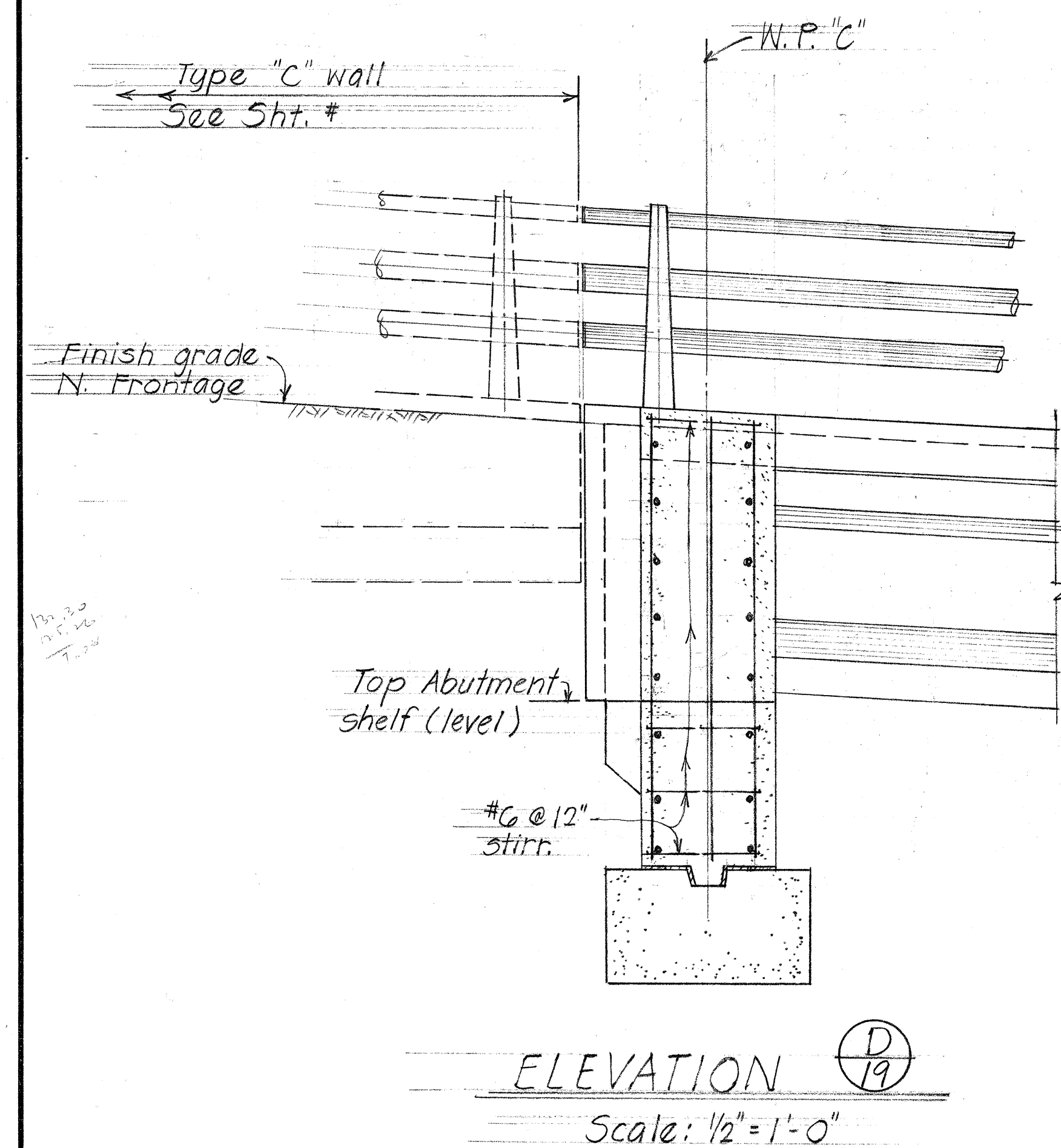
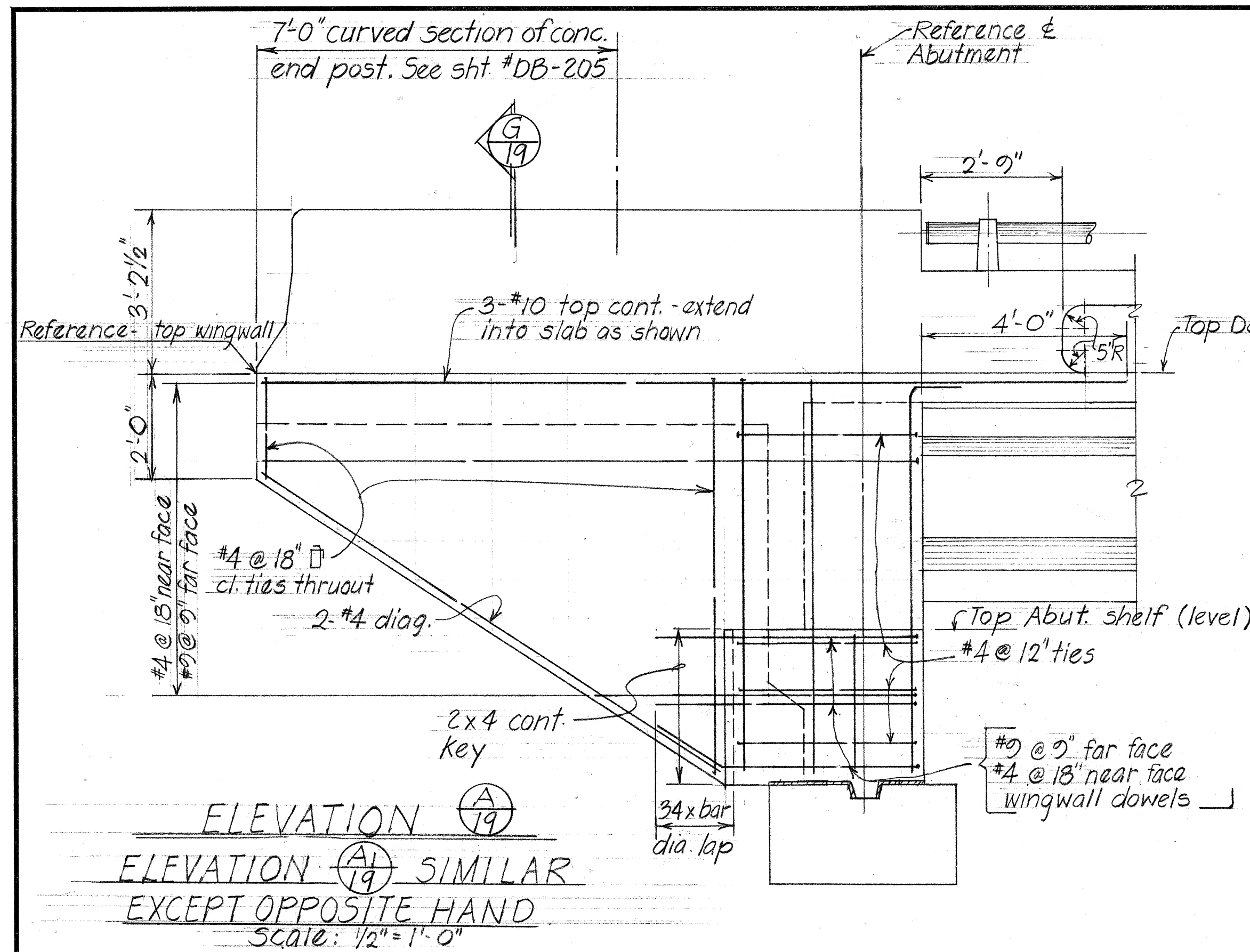
STRUCTURAL EXCAVATION PAY LIMITS
\$ BACKFILL DETAILS Not to scale

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LAKESIDE SEPARATION STRUCTURES
NO 1 & NO 2
ABUTMENT #1, #2, #3, & #4 SECTIONS AND
DETAILS
Moanalua Rd F-078-1(7)
Aug., 1970

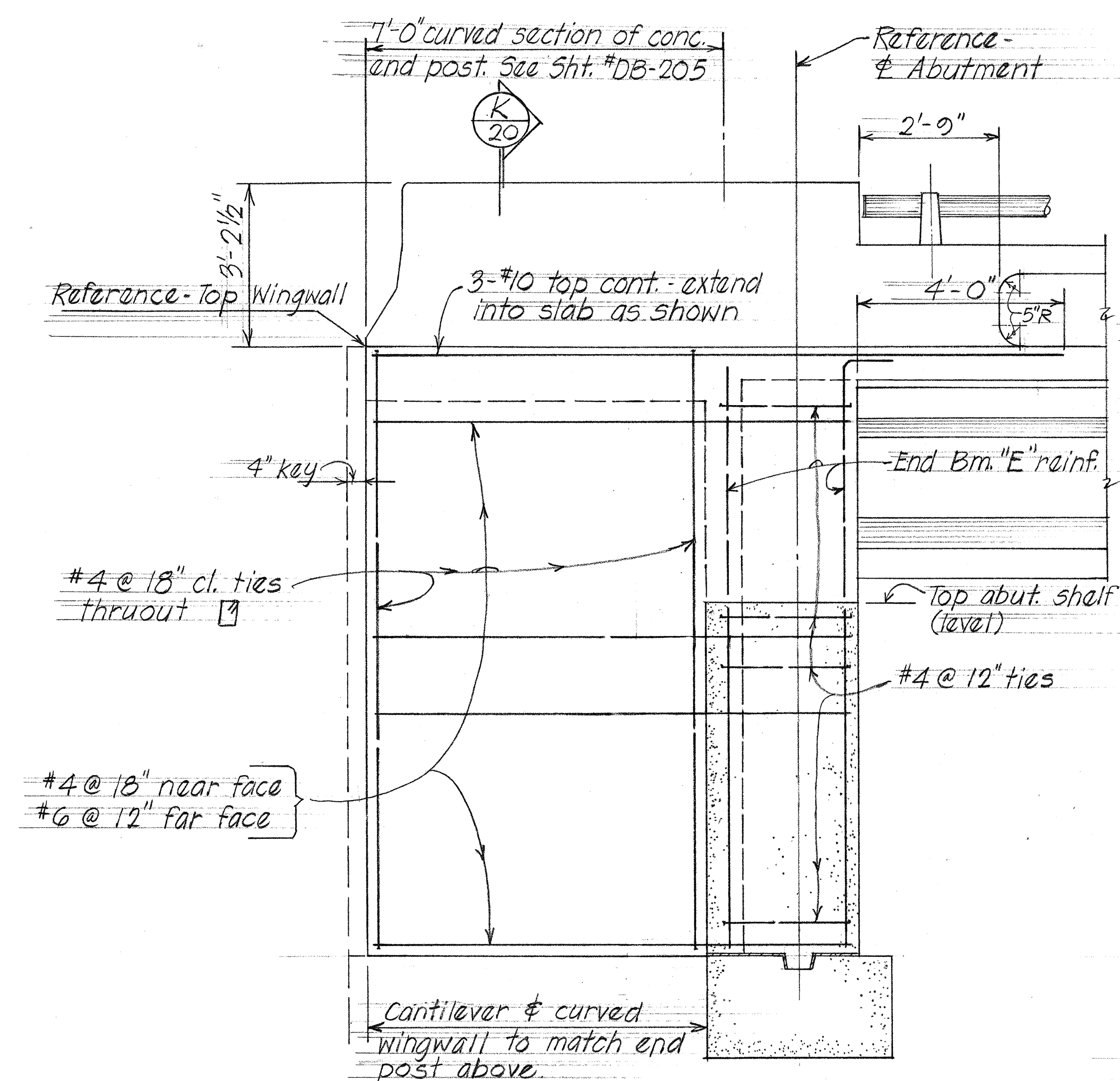
SHEET No. 18 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-078-1(7)	1971	251	302

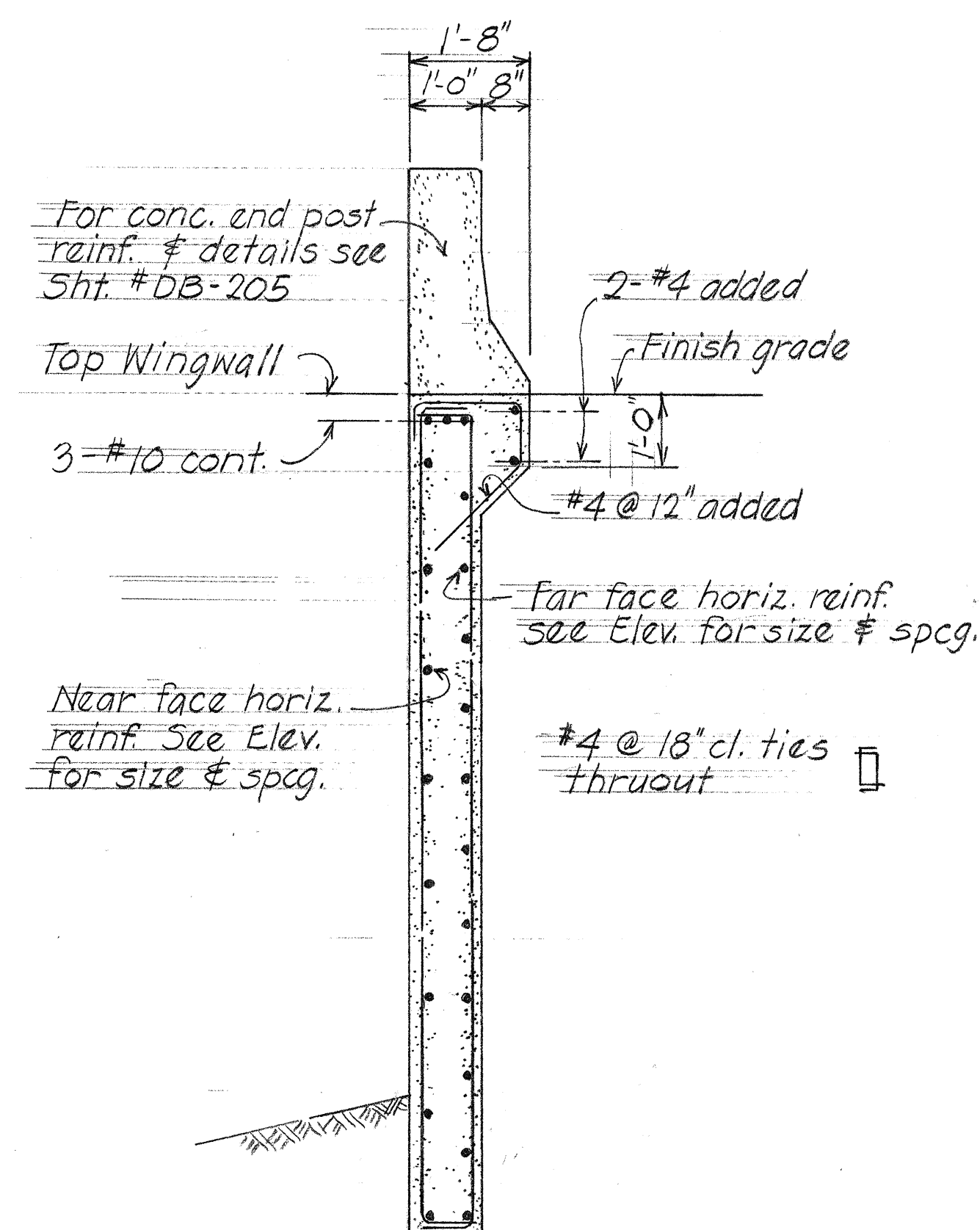


STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
LAKESIDE SEPARATION STRUCTURES No 1 & No 2	
Moanalua Rd	F-078-1(7)
Aug, 1970	
SHEET No. 19 OF 20 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-078-1(7)	1971	252	302



ELEVATION J
20
Scale: 1/2" = 1'-0"



SECTION K
20
Scale: 1/2" = 1'-0"

SURVEY PLATTED BY	DATE
DRAWN BY	Aug 70
TRACED BY	
QUANTITIES BY	DD MT
CHECKED BY	JO PY
ORIGINAL PLAN	
NOTE BOOK	
No.	

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
LAKESIDE SEPARATION STRUCTURES	
Nº 1 & Nº 2	
MISCELLANEOUS DETAILS	
Moanalua Rd	F-078-1(7)
Aug., 1970	
SHEET No. 20 OF 20 SHEETS	