FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(56):16	1979	95	236

I N D E X

SHEET NO.	DESCRIPTION
1	INDEX TO DRAWINGS - ESTIMATED QUANTITIES
2	INDEX TO DRAWINGS
3	PART GENERAL LAYOUT PLAN - ℄ IB STA. 115+17.15 TO STA. 138+28.75 ℄ R-NE 21+54.03 TO ℄ 33+77.48
4	℄ INBOUND PROFILE & SUPERELEVATION DIAGRAMS
5	BORING LOGS
6	BORING LOGS
7	TYPICAL SECTIONS - ℄ IB STA. 115+19.89 TO STA. 116+99.50
8	TYPICAL SECTIONS - ℄ IB STA. 116+99.50 TO STA. 130+45.00
9	TYPICAL SECTIONS - ℄ IB STA. 130+45.00 TO STA. 138+28.75
10	PART DECK LAYOUT PLAN - ℄ IB STA. 115+19.89 TO STA. 124+06.63 ℄ R-NE 21+56.80 TO ℄ 30+60.67
11	PART DECK LAYOUT PLAN - ℄ IB STA. 124+06.63 TO STA. 134+72.00 ℄ R-NE 30+60.67 TO ℄ 33+77.48
12	PART DECK LAYOUT & FINISH GRADE PLAN - ℄ IB STA. 134+72.00 TO STA. 138+28.75
13	PART DECK FINISH GRADE - ℄ IB STA. 115+00 TO STA. 125+75
14	PART DECK FINISH GRADE - ℄ IB STA. 125+75 TO STA. 136+50
15	PART LONGITUDINAL DECK SECTION ALONG ℄ INBOUND - STA. 115+19.89 TO STA. 130+34.00
16	PART LONGITUDINAL DECK SECTION ALONG ℄ INBOUND - STA. 130+34.00 TO STA. 138+28.75
17	LONGITUDINAL DECK SLAB CAMBER SCHEDULES
18	LONGITUDINAL DECK SLAB CAMBER SCHEDULES
19	PART FOUNDATION PLAN - ℄ HI STA. 116+18.00 TO STA. 121+46.00
20	PART FOUNDATION PLAN - ℄ HI STA. 122+34.00 TO STA. 126+82.00
21	PART FOUNDATION PLAN - ℄ HI STA. 127+70.00 TO STA. 138+26.00
22	TYPICAL PIER FRAMES PF-26 & PF-27 - DIMENSIONS & DETAILS
23	TYPICAL PIER FRAMES PF-28 & PF-32 INCL. - DIMENSIONS & DETAILS
24	TYPICAL PIER FRAME PF-33 - DIMENSIONS & DETAILS
25	PART PIER FRAME COLUMN SCHEDULE
26	PART PIER FRAME COLUMN SCHEDULE
27	PART PIER FRAME COLUMN SCHEDULE
28	PART PIER FRAME COLUMN SCHEDULE
29	PIER FRAME COLUMN FOOTING, COLUMN PEDESTAL SCHEDULES & DETAILS
30	PIER FRAME COLUMN SECTIONS - VARIOUS COLUMN TYPES I, II, IV
31	PIER FRAME COLUMN SECTIONS - VARIOUS COLUMN TYPES I, II, IV

SHEET NO.	DESCRIPTION
32	PIER FRAME COLUMN SECTIONS - VARIOUS COLUMN TYPES I, II
33	PIER FRAMES PF-26 THRU PF-33 INCL. - CAP DIMENSIONS AND ELEVATIONS SCHEDULE
34	PIER FRAME PF-26 - PIER LINE ⟨2⟩ IB - REINFORCEMENT & DETAILS
35	PIER FRAME PF-27 - PIER LINE ⟨3⟩ IB - REINFORCEMENT & DETAILS
36	TYPICAL PIER FRAMES PF-28 THRU PF-33 INCL. - REINF. & DETAILS
37	TYPICAL PIER FRAMES PF-26 THRU PF-33 INCL. - DETAILS
38	TYPICAL PIER FRAMES PF-26 THRU PF-30 INCL. - DETAILS PIER LINES ⟨2⟩ THRU ⟨13⟩ IB INCL.
39	TYPICAL PIER FRAMES PF-31 THRU PF-33 INCL. - DETAILS
40	PIER FRAME PF-30A - DETAILS
41	PIER FRAME PF-30A - SECTIONS & DETAILS
42	PIER FRAME PF-26 THRU PF-33 INCL. - TYPICAL CAP SECTIONS
43	PLACEMENT DIAGRAM - PIER FRAME MAIN CAP REINF. - PIER LINES ⟨4⟩, ⟨5⟩, ⟨6⟩ IB
44	PLACEMENT DIAGRAM - PIER FRAME MAIN CAP REINF. - PIER LINES ⟨7⟩, ⟨8⟩, ⟨9⟩ IB
45	PLACEMENT DIAGRAM - PIER FRAME MAIN CAP REINF. - PIER LINES ⟨10⟩, ⟨11⟩, ⟨14⟩ IB
46	PLACEMENT DIAGRAM - PIER FRAME MAIN CAP REINF. - PIER LINES ⟨12⟩, ⟨13⟩ IB PIER LINES ⟨15⟩ THRU ⟨26⟩ IB INCL.
47	PLACEMENT DIAGRAM - PIER FRAME MAIN CAP REINF. - PIER LINE ⟨27⟩ IB
48	MISCELLANEOUS DETAILS AT BEGINNING OF PROJECT EXISTING PIER #4
49	PIER FRAME SHELF - TYPICAL CONCRETE SEATS - LOCATION PLANS & DETAILS
50	PIER FRAME SHELF - TYPICAL GIRDER CONCRETE SEAT - PLANS & DETAILS
51	PIER FRAME SHELF - TEE & GIRDER CONCRETE SEAT DETAILS
52	PIER FRAME CAP - GIRDER & TEE CONCRETE SEAT & CREEP BLOCK SCHEDULE
53	PIER FRAME CAP - GIRDER & TEE CONCRETE SEAT & CREEP BLOCK SCHEDULE
54	PIER FRAME CAP - GIRDER & TEE CONCRETE SEAT & CREEP BLOCK SCHEDULE
55	PIER FRAME CAP - GIRDER & TEE CONCRETE SEAT & CREEP BLOCK SCHEDULE
56	PIER CAP GIRDER & TEE CONCRETE SEAT SKEW BEVEL SCHEDULE
57	PIER CAP GIRDER & TEE CONCRETE SEAT SKEW BEVEL SCHEDULE
58	PIER CAP GIRDER & TEE CONCRETE SEAT SKEW BEVEL SCHEDULE
59	PIER FRAME CAP - GIRDER & TEE CONCRETE SEAT ELEVATION SCHEDULE
60	PIER FRAME CAP - GIRDER & TEE CONCRETE SEAT ELEVATION SCHEDULE
61	TYPICAL DECK SLAB SECTION - ℄ IB STA. 115+19.89 TO STA. 130+45.00
62	TYPICAL DECK SLAB SECTION - ℄ IB STA. 130+45.00 TO STA. 138+28.75

ESTIMATED QUANTITIES

ITEM NO.	ITEM	UNIT	QUANTITIES
503.1610	Concrete in Footings (Incl. Pedestal) for Airport Viaduct	Lump Sum	(2,115 C.Y.)
503.1600	Concrete in Airport Viaduct (Except Footings)	Lump Sum	(17,003 C.Y.)
602.0600	Reinforcing Steel in Airport Viaduct	Lump Sum	(7,133,700 Lbs.)
504.7300	Prestressed Concrete Tee Girders	Lump Sum	(30,308 L.F.)
504.7100	Prestressed Concrete Girders	Lump Sum	(4,350 L.F.)
507.5000	Concrete Railing	Lin. Ft.	4,645 L.F.
206.6000	Structural Excavation for Bridges	Cu. Yd.	4,593 C.Y.
501.0200	Structural Steel	Lump Sum	(145,000 Lbs.)
604.2280	Furnishing & Installing Cast Iron Frame and Cover Casing for Deck Drain Cleanout	Each	20
634.0300	Exploratory Excavation at Structure Footing	F.A.	F.A.

NOTE:
Refer to General Notes, Symbols & Abbreviations Sht. # T-1.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE Nov. '78
	DRAWN BY EMA	" " " "
NOTE BOOK	TRACED BY	" " " "
	DESIGNED BY	" " " "
No.	QUANTITIES BY	Nov. '78
	CHECKED BY DCO, F.C.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

INDEX TO DRAWINGS
ESTIMATED QUANTITIES

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(56):16

SCALE: No Scale DATE: NOV. 1978

SHEET No. 1 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	96	236

I N D E X

SHEET NO.	DESCRIPTION
63	PART DECK FRAMING PLAN - ℄ IB STA. 115 + 19.89 TO STA. 119 + 61.83
64	PART DECK FRAMING PLAN - ℄ IB STA. 119 + 61.83 TO STA. 124 + 06.63
65	PART DECK FRAMING PLAN - ℄ IB STA. 124 + 06.63 TO STA. 131 + 22.00
66	PART DECK FRAMING PLAN - ℄ IB STA. 131 + 22.00 TO STA. 138 + 28.75
67	PART PRESTRESSED GIRDER & TEE TYPE LOCATION SCHEDULES
68	PART PRESTRESSED GIRDER & TEE TYPE LOCATION SCHEDULES
69	PART PRESTRESSED GIRDER & TEE TYPE LOCATION SCHEDULES
70	PRESTRESSED GIRDER & TEE TYPE SCHEDULES
71	PRESTRESSED TEE TYPE SCHEDULES
72	TYPICAL BAR PLACEMENT DIAGRAMS, TSS-1 THRU TSS-6 INCL.
73	TYPICAL BAR PLACEMENT DIAGRAMS, TSS-28, TSS-29, TSS-30, TSS-31
74	TYPICAL BAR PLACEMENT DIAGRAMS, TSS-200 THRU TSS-205 INCL.
75	TYPICAL BAR PLACEMENT DIAGRAMS, TSS-206 THRU TSS-209 INCL. TSS-309, TSS-310
76	TYPICAL BAR PLACEMENT DIAGRAMS, TSS-281 THRU TSS-294 INCL.
77	TYPICAL BAR PLACEMENT DIAGRAMS, TSS-295 THRU TSS-308 INCL.
T-1	TYPICAL DETAILS - GENERAL NOTES, SYMBOLS & ABBREVIATIONS
T-2	TYPICAL FOUNDATION DETAILS WITH COLUMN PEDESTAL-COLUMN TYPE I
T-3	TYPICAL FOUNDATION DETAILS WITHOUT COLUMN PEDESTAL COLUMN TYPES I, II, IV
T-4	TYPICAL DETAILS - COLUMN HINGE BASE DETAILS
T-5	TYPICAL DETAILS - PIER FRAME COLUMN TYPES I & II DIMENSIONS & DETAILS
T-6	TYPICAL DETAILS - PIER FRAME COLUMN TYPES I & II REINFORCEMENT DETAILS
T-7	TYPICAL DETAILS - PIER FRAME COLUMN TYPE IV DETAILS
T-8	TYPICAL DETAILS - PIER FRAME SHELF GIRDER & TEE CONCRETE SEAT REINFORCING & DETAILS
T-9	TYPICAL DETAILS - PRESTRESSED GIRDER & TEE DETAILS
T-10	TYPICAL DETAILS - PRESTRESSED GIRDER & TEE DETAILS
T-11	TYPICAL DETAILS - PRESTRESSED GIRDER DETAILS
T-12	TYPICAL DETAILS - PRESTRESSED TEE DETAILS
T-13	TYPICAL DETAILS - SPECIAL PRESTRESSED TEE DETAILS AT DECK DRAIN INLETS
T-14	TYPICAL DETAILS - BEAMS "A" & "C" DETAILS

SHEET NO.	DESCRIPTION
T-15	TYPICAL DETAILS - BEAMS "B" & "C" DETAILS
T-16	TYPICAL DETAILS - DECK EXPANSION JOINT SEALER & WATERPROOFING DETAILS
T-17	TYPICAL DETAILS - LEFT CONCRETE RAILING & DECK DETAILS VARIOUS LOCATIONS
T-18	TYPICAL DETAILS - LEFT CONCRETE RAILING & DECK DETAILS VARIOUS LOCATIONS
T-19	TYPICAL DETAILS - PART RIGHT CONCRETE RAILING & DECK DETAILS VARIOUS LOCATIONS
T-20	TYPICAL DETAILS - PART RIGHT CONCRETE RAILING & DECK DETAILS
T-21	TYPICAL DETAILS - CONCRETE RAILING FASCIA DETAILS & FINISH MISCELLANEOUS RAILING DETAILS
T-22	TYPICAL DETAILS - DECK DRAIN INLET TYPE I_2 - SECTIONS & DETAILS
T-23	TYPICAL DETAILS - DECK DRAIN INLET TYPE I_2 - FRAME & GRATING DETS.
T-24	TYPICAL DETAILS - DECK DRAIN INLET TYPE I_2 - SECTIONS & DETAILS
T-25	TYPICAL DETAILS - DECK DRAIN INLET TYPE I_2 - SECTIONS & DETAILS
T-26	TYPICAL DETAILS - PLANTER BOX DETAILS
T-27	TYPICAL DETAILS - PLANTER BOX DETAILS
T-28	TYPICAL DETAILS - MISCELLANEOUS DETAILS
T-29	TYPICAL DETAILS - MISCELLANEOUS DETAILS
DB-100	STANDARD DETAILS - NOTES & MISCELLANEOUS DETAILS
ES-1	EXPRESSWAY SIGN E-2 CANTILEVER BOX BEAM CLOSED TRUSS - FRAMING & TRUSS DETAILS
ES-2	EXPRESSWAY SIGN E-2 CANTILEVER BOX BEAM CLOSED TRUSS - FRAMING & SUPPORT SHAFT DETAILS
ES-3	EXPRESSWAY SIGN E-2 CANTILEVER BOX BEAM CLOSED TRUSS - FRAMING DETAILS
ES-4	EXPRESSWAY SIGN E-2 CANTILEVER BOX BEAM CLOSED TRUSS - TRUSS CONNECTION DETAILS AT SUPPORT SHAFT
ES-5	EXPRESSWAY SIGN E-2 CANTILEVER BOX BEAM CLOSED TRUSS - SUPPORT SHAFT SECTION AND DETAILS; GENERAL NOTES
ES-6	EXPRESSWAY SIGN E-2 CANTILEVER BOX BEAM CLOSED TRUSS - TYPICAL SIGN PANEL MOUNTING & RIBBED SHEET METAL SIDING DETS.

NOTE:
Refer to General Notes, Symbols & Abbreviations Sht. # T-1.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE NOV. '78
	DRAWN BY LMA	" " " "
NOTE BOOK	TRACED BY	" " " "
No.	DESIGNED BY	" " " "
	QUANTITIES BY	" " " "
	CHECKED BY DCO, EC	" " " "

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

INDEX TO DRAWINGS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: No Scale DATE: NOV. 1978

SHEET No. 2 OF 77 SHEETS

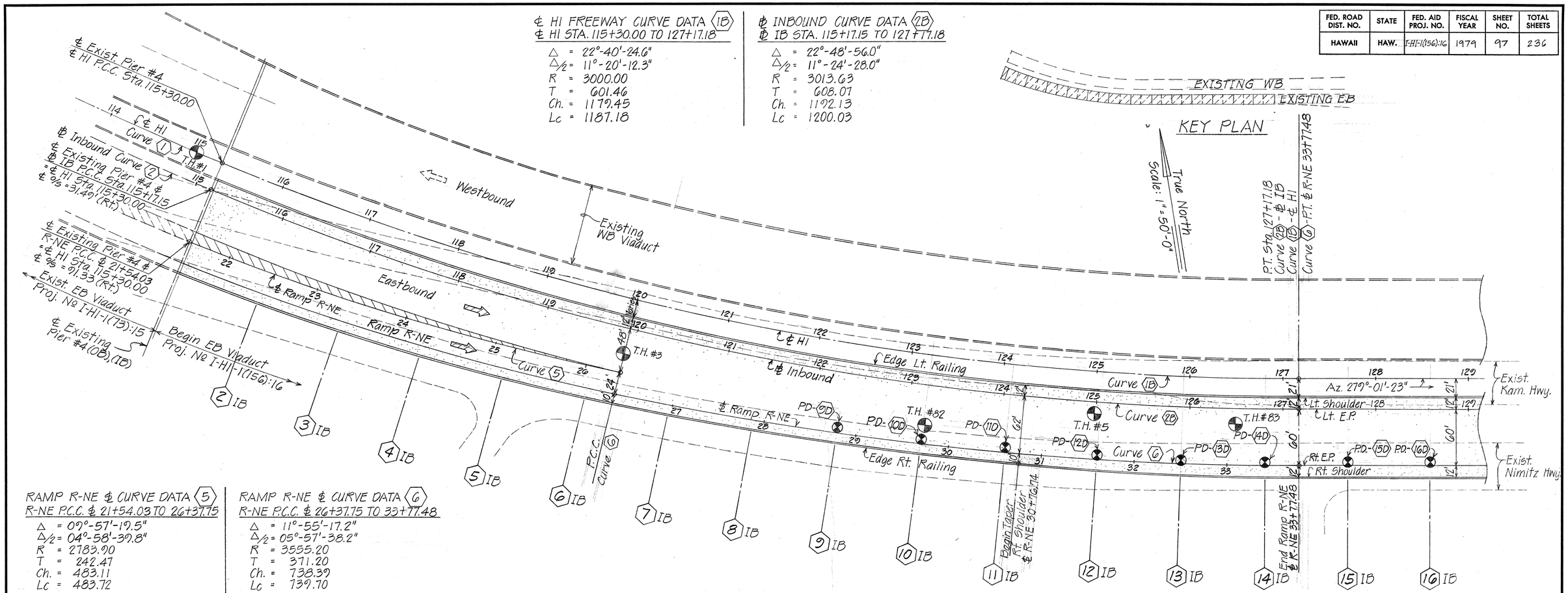
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	97	236

℄ HI FREEWAY CURVE DATA (1B)
℄ HI STA. 115+30.00 TO 127+17.18

△ = 22°-40'-24.6"
△/2 = 11°-20'-12.3"
R = 3000.00
T = 601.46
Ch. = 1179.45
Lc = 1187.18

℄ INBOUND CURVE DATA (2B)
℄ IB STA. 115+17.15 TO 127+17.18

△ = 22°-48'-56.0"
△/2 = 11°-24'-28.0"
R = 3013.63
T = 608.07
Ch. = 1192.13
Lc = 1200.03

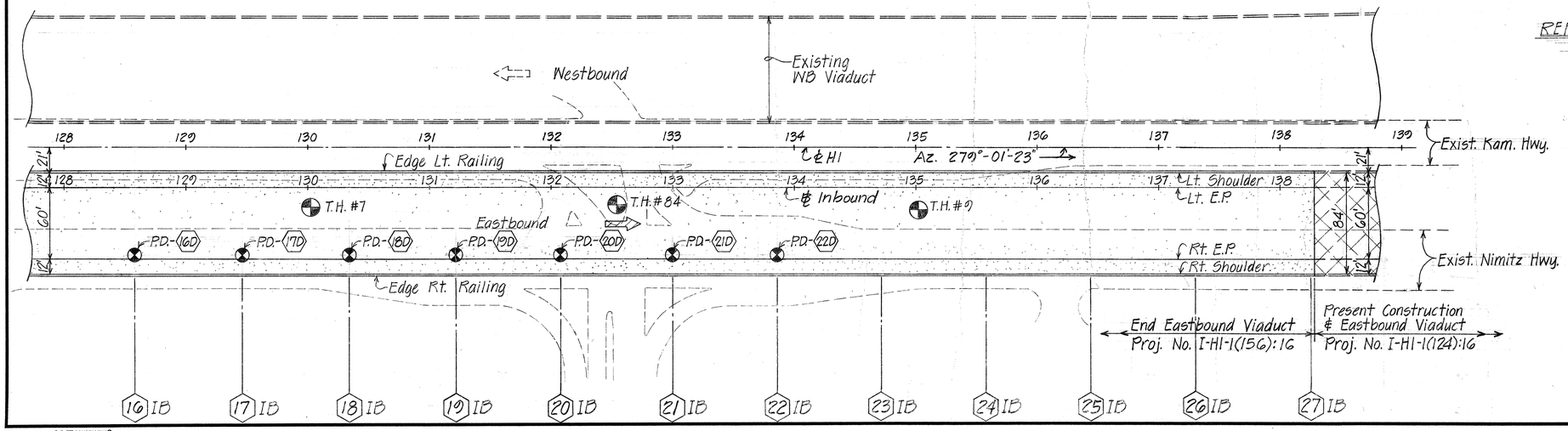


RAMP R-NE ℄ CURVE DATA (5)
R-NE P.C.C. ℄ 21+54.03 TO 26+37.75

△ = 09°-57'-19.5"
△/2 = 04°-58'-39.8"
R = 2783.90
T = 242.47
Ch. = 483.11
Lc = 483.72

RAMP R-NE ℄ CURVE DATA (6)
R-NE P.C.C. ℄ 26+37.75 TO 33+77.48

△ = 11°-55'-17.2"
△/2 = 05°-57'-38.2"
R = 3555.20
T = 371.20
Ch. = 738.39
Lc = 739.70



REFERENCE NOTES: For General Notes, Symbols & Abbreviations, refer to Sht #T-1.

ORIGINAL PLAN
NOTE BOOK
No.
SURVEY PLOTTED BY
DRAWN BY LN
TRACED BY
DESIGN BY EK D.C.O.
QUANTITIES BY
CHECKED BY DCO E.E.
DATE NOV. '78

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

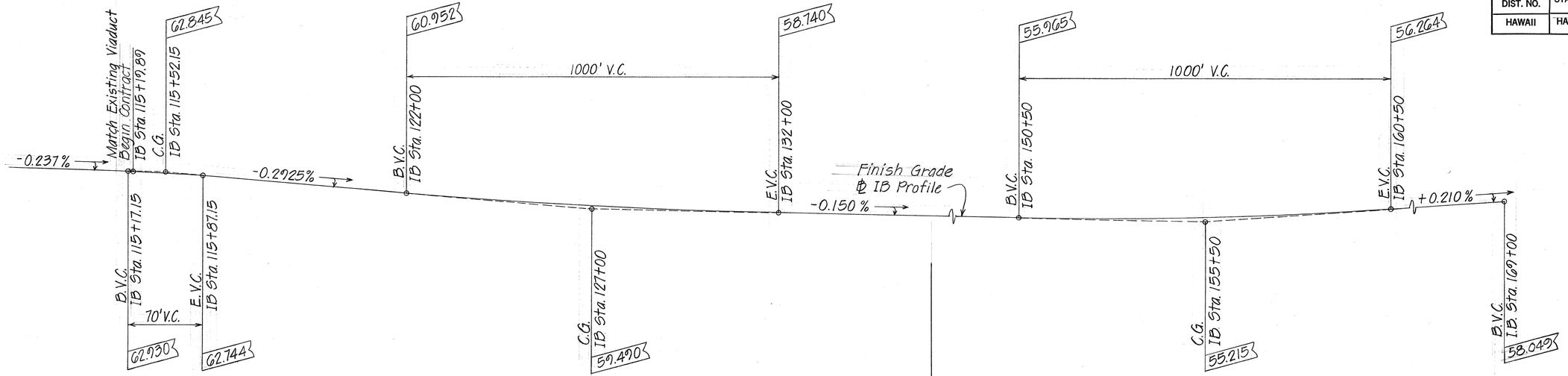
PART GENERAL LAYOUT PLAN
℄ I.B. STA. 115 + 17.15 TO STA. 138 + 28.75
℄ R-NE 21 + 54.03 TO ℄ 33 + 77.48

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

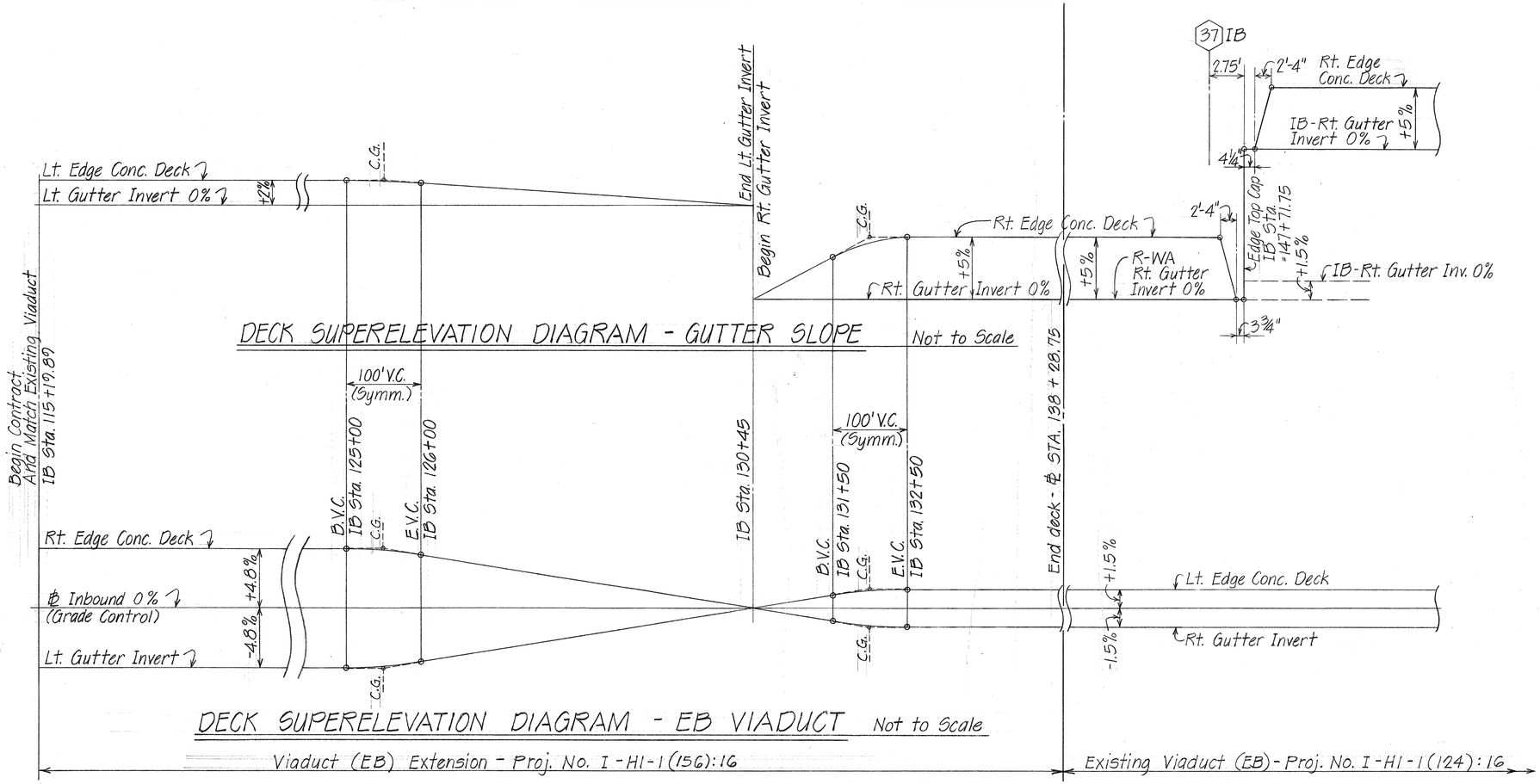
SCALE: 1" = 50'-0" DATE: NOV. 1978

SHEET No. 3 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	FHPI(156)16	1979	98	236



℄ INBOUND PROFILE AT GRADE CONTROL Not to scale



DECK SUPERELEVATION DIAGRAM - GUTTER SLOPE Not to Scale

DECK SUPERELEVATION DIAGRAM - EB VIADUCT Not to Scale

Viaduct (EB) Extension - Proj. No. I-HI-1(156):16 — Existing Viaduct (EB) - Proj. No. I-HI-1(124):16

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE Nov. '78
	DRAWN BY L.N	" "
NOTE BOOK	TRACED BY	" "
	DESIGNED BY D.C.O	" "
No.	QUANTITIES BY	" "
	CHECKED BY D.C.O, E.C.	" "

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

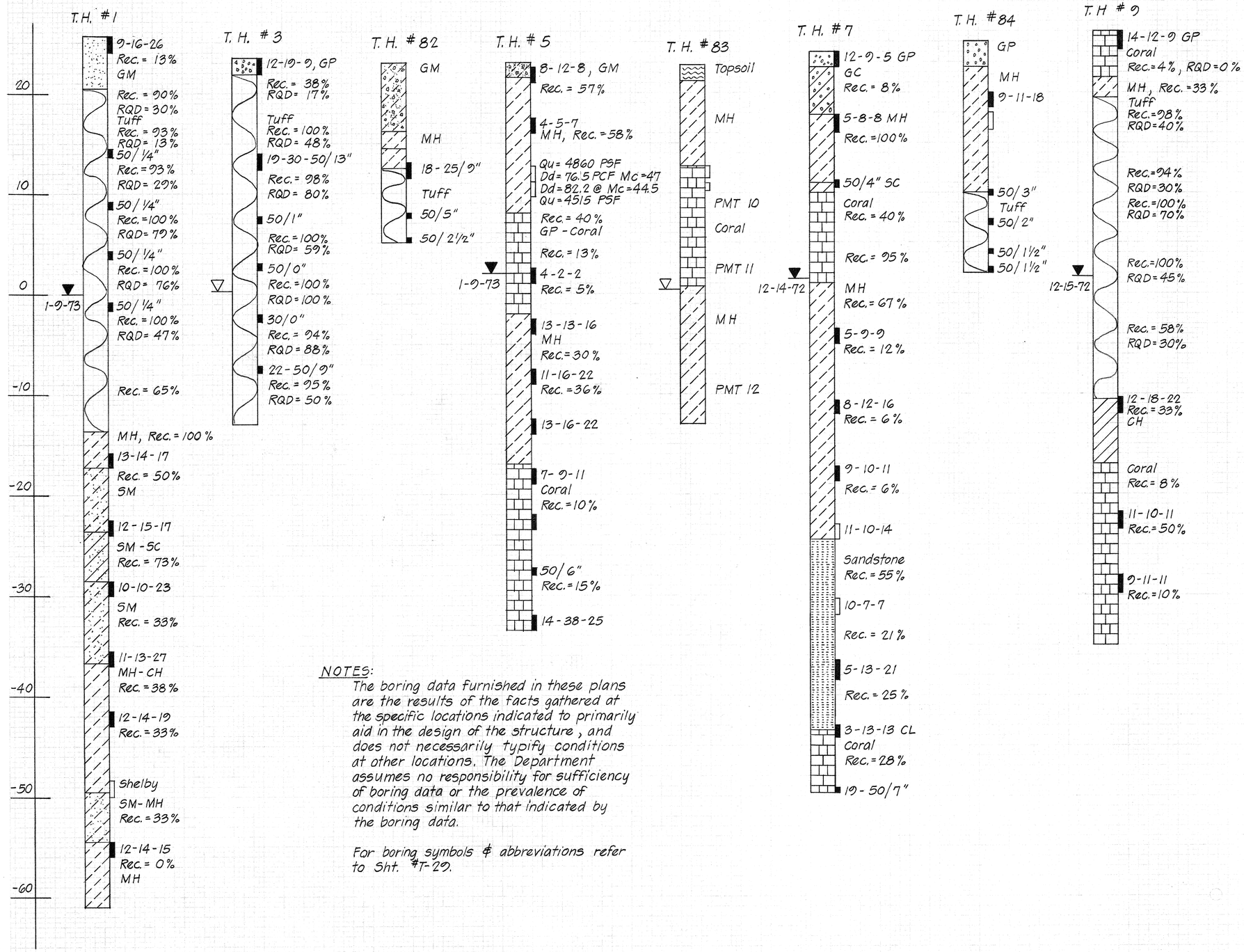
℄ INBOUND PROFILE AND SUPERELEVATION DIAGRAMS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: AS NOTED DATE: NOV. 1978

SHEET No. 4 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	99	236



NOTES:

The boring data furnished in these plans are the results of the facts gathered at the specific locations indicated to primarily aid in the design of the structure, and does not necessarily typify conditions at other locations. The Department assumes no responsibility for sufficiency of boring data or the prevalence of conditions similar to that indicated by the boring data.

For boring symbols & abbreviations refer to Sht. #T-29.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE NOV. '78
	DRAWN BY LMA	"
	TRACED BY	"
NOTE BOOK	DESIGNED BY	"
	QUANTITIES BY	"
No.	CHECKED BY DOD, EG	"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BORING LOGS

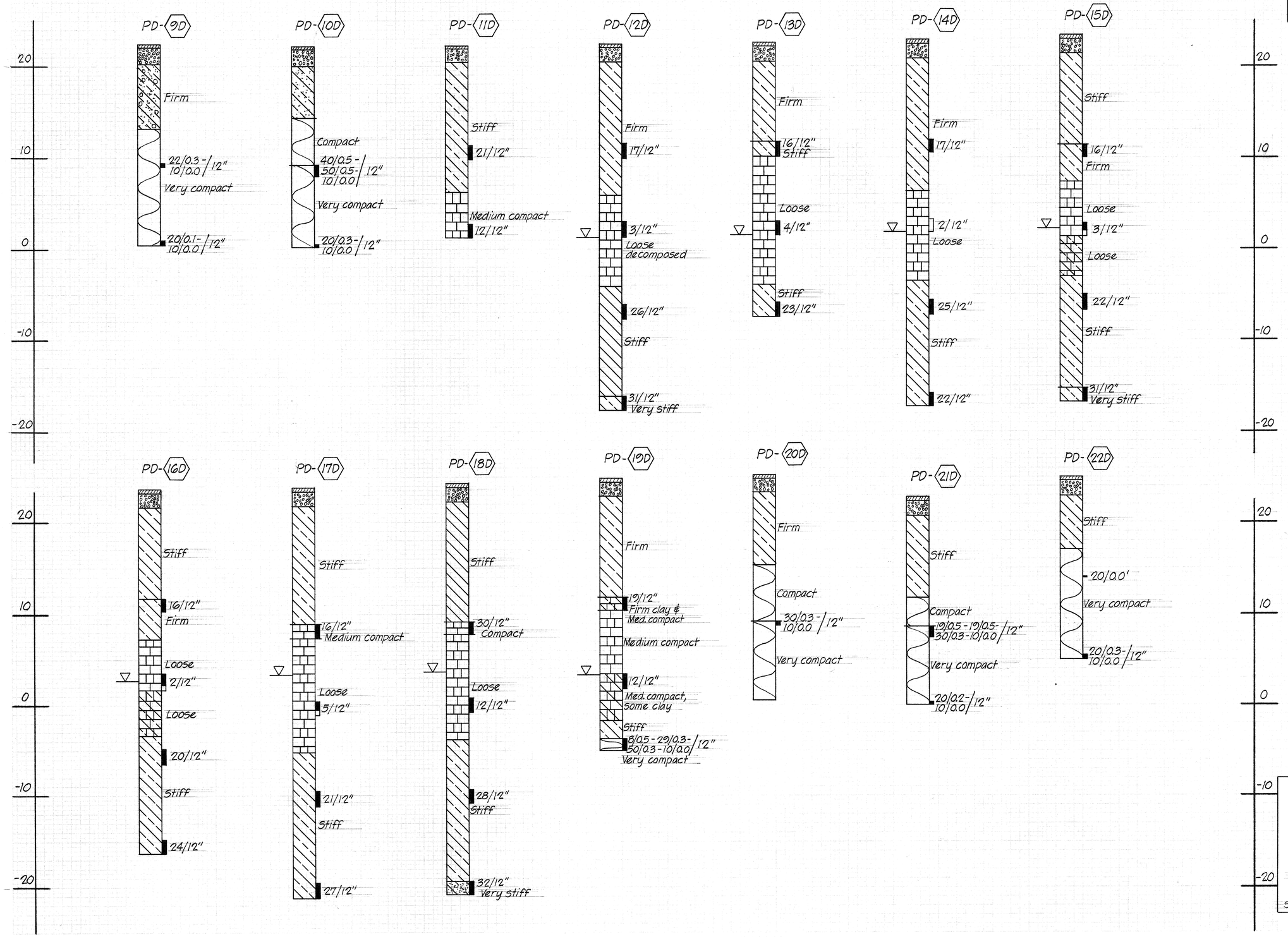
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: AS NOTED DATE: NOV. 1978

SHEET No. 5 OF 77 SHEETS

99

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(56):16	1979	100	236



NOTE:
Refer to sheet # 5 for notes

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

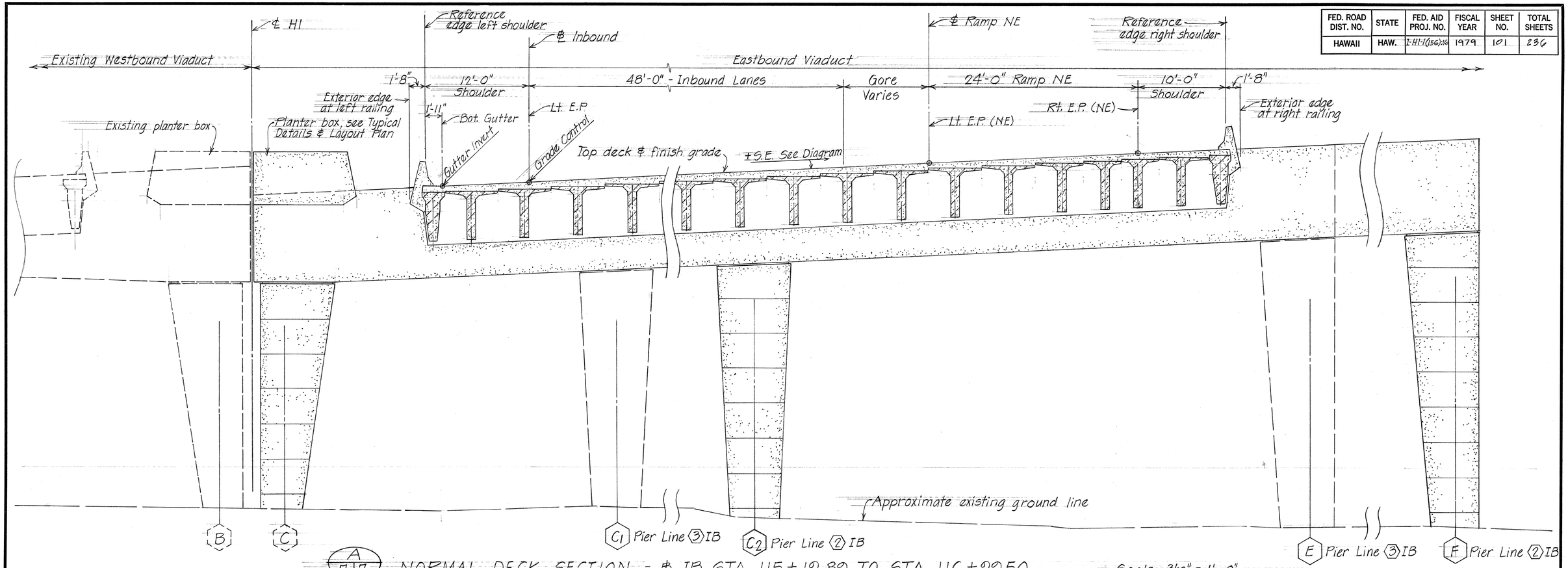
BORING LOGS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(56):16

SCALE: AS NOTED DATE: NOV. 1978

SHEET No. 6 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	101	236



A 7/7 NORMAL DECK SECTION - ℄ IB STA. 115+19.89 TO STA. 116+99.50

Scale: 3/16" = 1'-0"

ORIGINAL PLAN		DATE	NOV. '78
	SURVEY PLOTTED BY		
	DRAWN BY	N.Y.	"
NOTE BOOK	TRACED BY	"	"
	DESIGNED BY	D.C.O.	"
	QUANTITIES BY	T.K.M.	"
No.	CHECKED BY	D.C.O.	"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

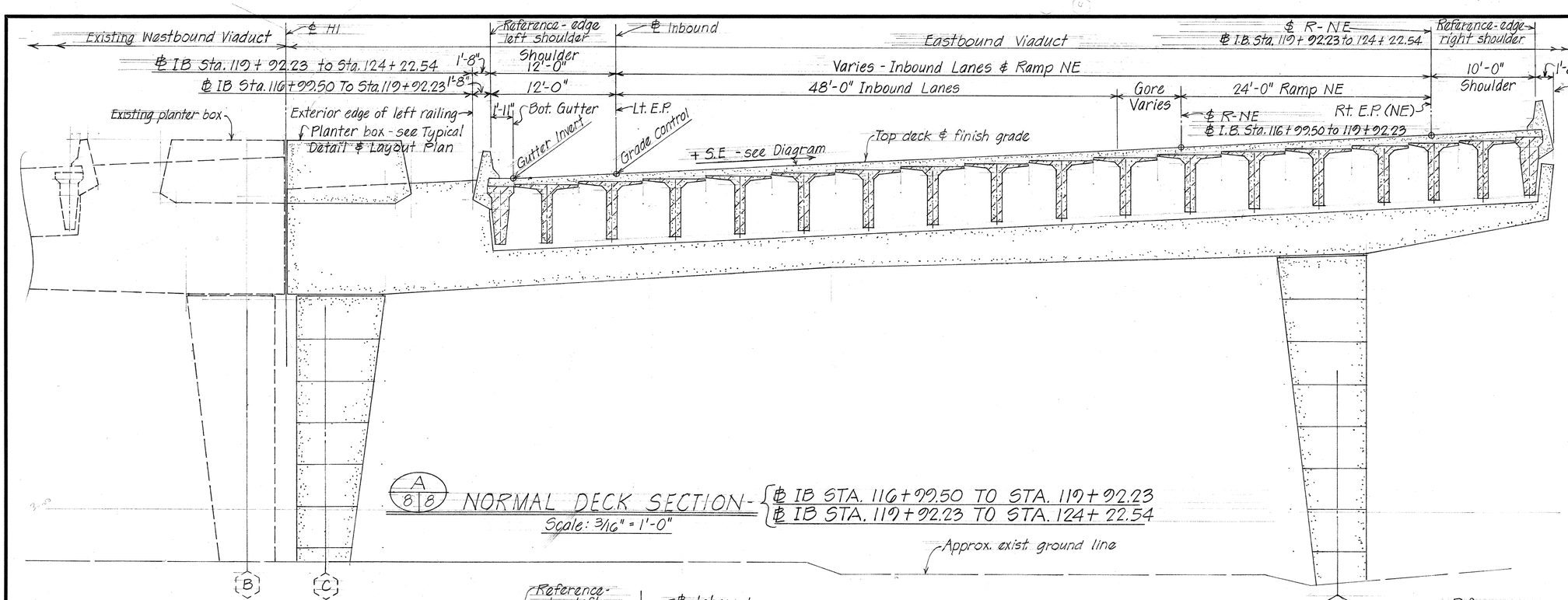
TYPICAL SECTIONS
℄ IB STA. 115+19.89 TO STA. 116+99.50

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: AS NOTED DATE: NOV. 1978

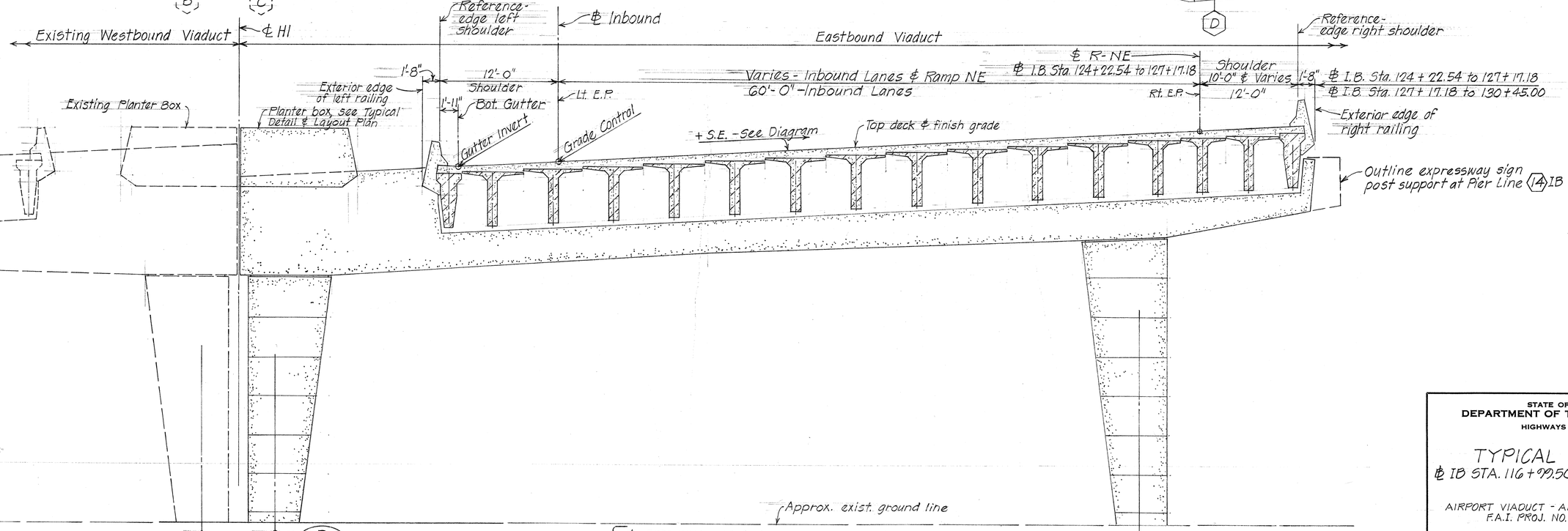
SHEET No. 7 OF 77 SHEETS

C-8-6



A 8 | 8 NORMAL DECK SECTION - { ℄ IB STA. 116 + 99.50 TO STA. 119 + 92.23 ; ℄ IB STA. 119 + 92.23 TO STA. 124 + 22.54

Scale: 3/16" = 1'-0"



B 8 | 8 NORMAL DECK SECTION - { ℄ IB STA. 124 + 22.54 TO STA. 127 + 17.18 ; ℄ IB STA. 127 + 17.18 TO STA. 130 + 45.00

Scale: 3/16" = 1'-0"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	102	236

ORIGINAL PLAN		
NOTE BOOK	SURVEY PLOTTED BY	DATE NOV. '78
	DRAWN BY	" "
	TRACED BY	" "
	DESIGNED BY DCO	EK
	QUANTITIES BY KM	GT LM
No.	CHECKED BY DCO	EC

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS
℄ IB STA. 116 + 99.50 TO STA. 130 + 45.00

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

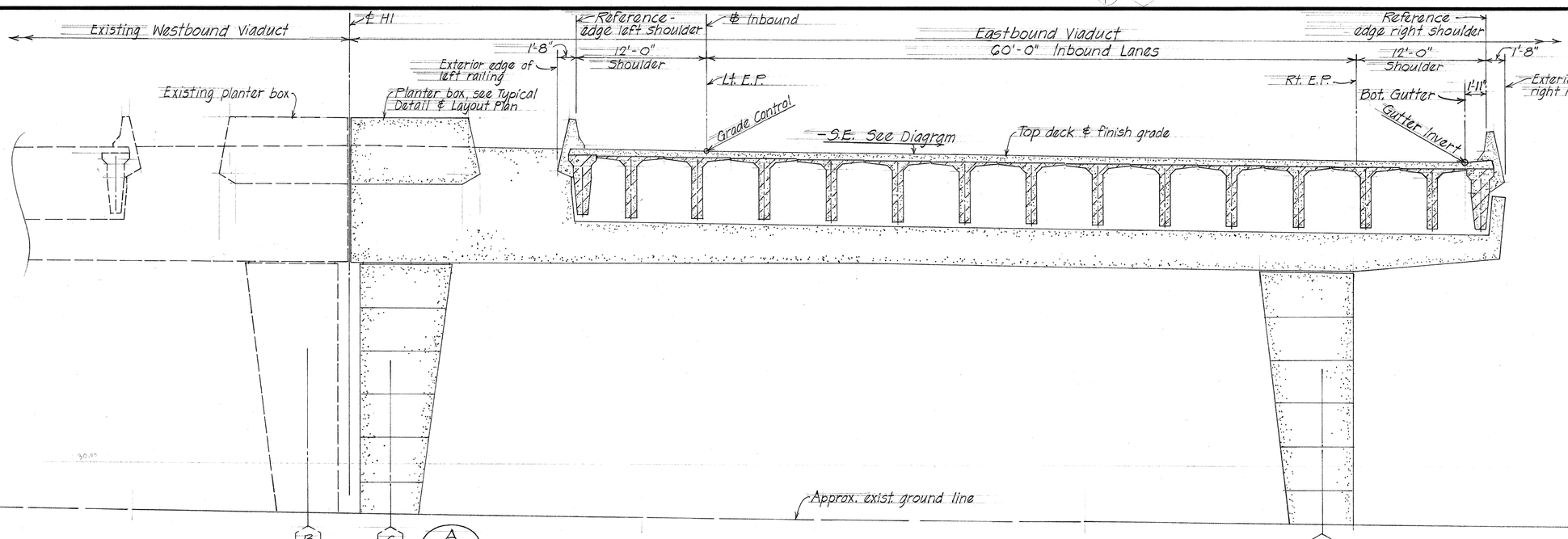
SCALE: 1" = 50'-0" DATE: NOV. 1978

SHEET No. 8 OF 77 SHEETS

102

K+E ® TRACING PAPER

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	103	236



A (9|7) NORMAL DECK SECTION - ℄ IB STA. 130 + 45.00 TO STA. 138 + 28.75

Scale: 3/16" = 1'-0"

ORIGINAL PLAN		
NOTE BOOK	SURVEY PLOTTED BY	DATE Nov. '78
	DRAWN BY	" " " " "
No.	TRACED BY	" " " " "
	DESIGNED BY D.S.O.	E.K.
	QUANTITIES BY T.K.M.	G.T. L.M.
	CHECKED BY D.C.O.	E.C.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS
℄ IB STA. 130 +45.00 TO STA 138+28.75

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: AS NOTED DATE: NOV. 1978

SHEET No. 9 OF 77 SHEETS

K+E ® TRACING PAPER

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	104	236

ORIGINAL PLAN	SURVEY PLOTTED BY	L.N.	DATE NOV. '78
	DRAWN BY	T.M.O.	" "
NOTE BOOK	TRACED BY	E.K.	" "
No.	DESIGNED BY	D.C.O.	" "
	QUANTITIES BY		
	CHECKED BY	D.C.O.	E.T.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PART DECK LAYOUT PLAN

℄ IB STA. 115+19.89 TO STA. 124+06.63
℄ R-NE 21+56.80 TO ℄ 30+60.67

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

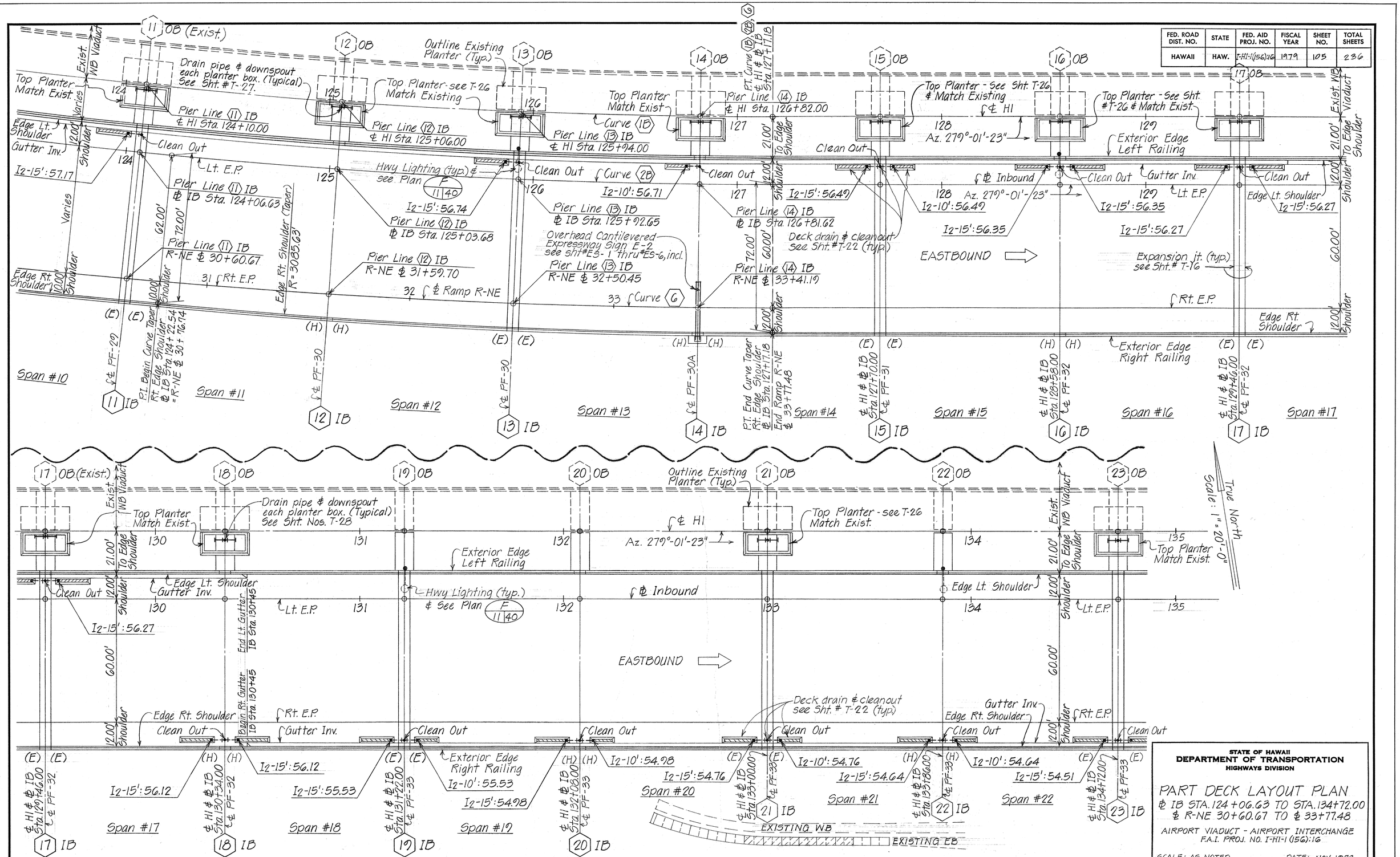
SCALE: AS NOTED DATE: NOV. 1978

SHEET No. 10 OF 77 SHEETS

KEY PLAN

104

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156)16	1979	105	236



ORIGINAL PLAN	SURVEY PLOTTED BY	LN	DATE	NOV 78
	DRAWN BY	DCO		
	TRACED BY	FK		
NOTE BOOK	DESIGNED BY			
No.	QUANTITIES BY			
	CHECKED BY	DCO	FC	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PART DECK LAYOUT PLAN

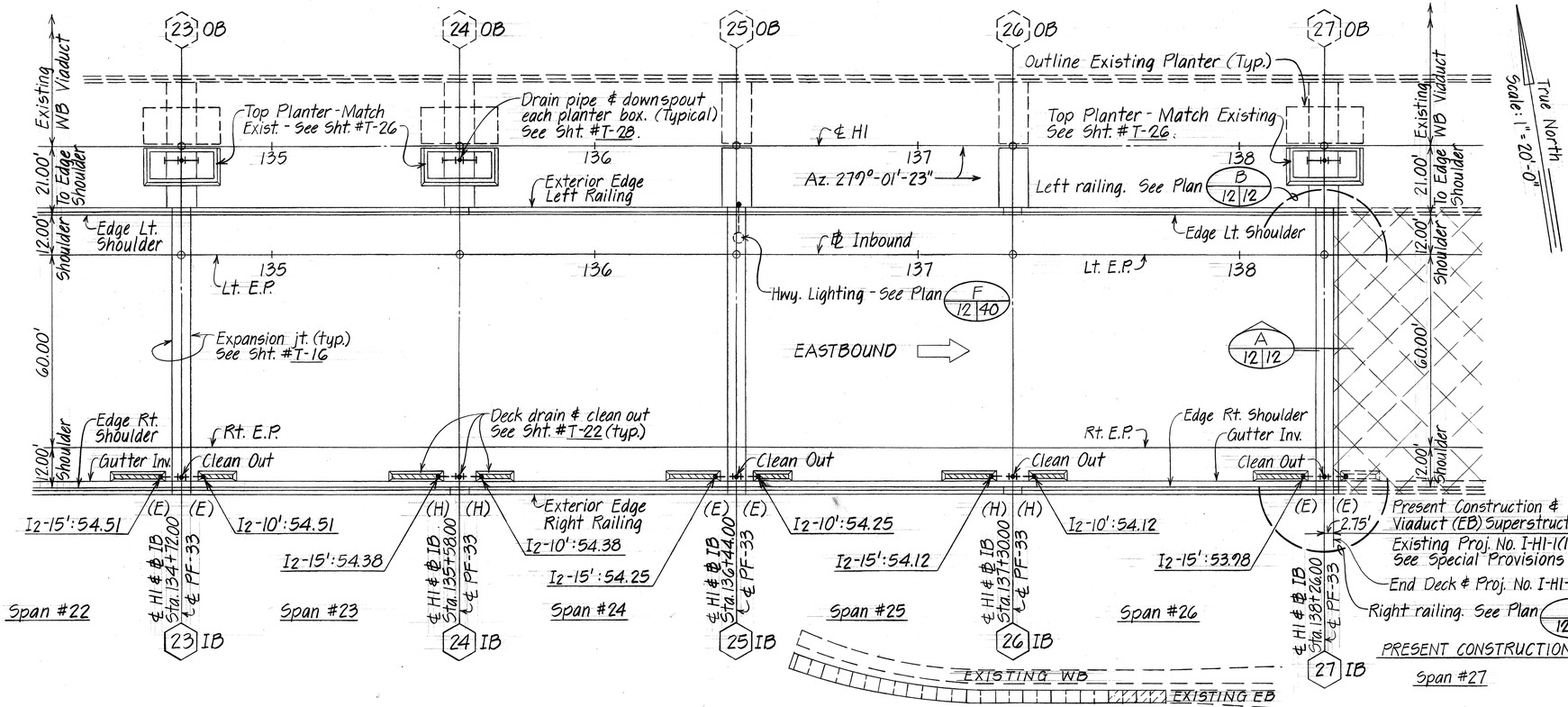
℄ IB STA. 124+06.63 TO STA. 134+72.00
℄ R-NE 30+60.67 TO ℄ 33+77.48

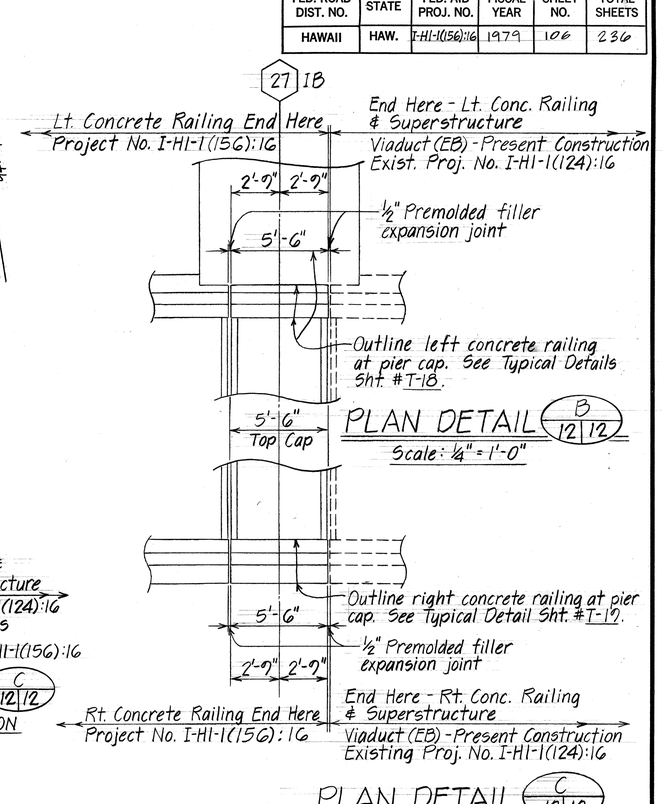
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1 (156):16

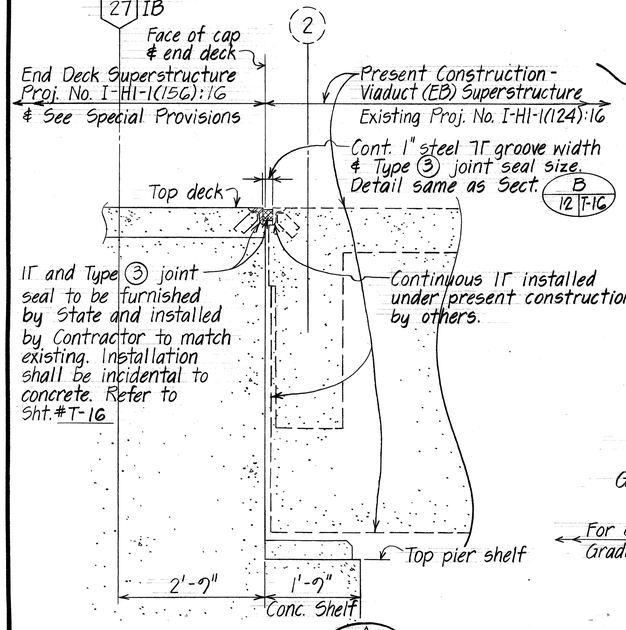
SCALE: AS NOTED DATE: NOV. 1978

SHEET No. 11 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	106	236



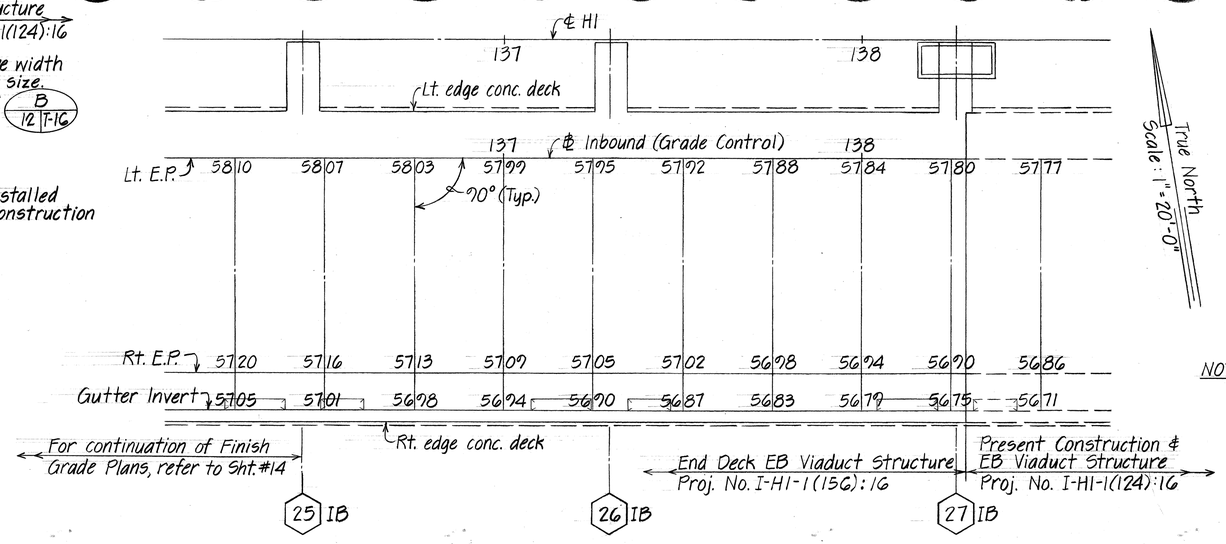




TYPICAL SECTION A 12|12

Scale: ¾" = 1'-0"

PART DECK LAYOUT PLAN



PART DECK FINISH GRADE - ℄ IB STA. 136+25 TO STA. 138+50

NOTE: For additional notes, see Sht. #13.

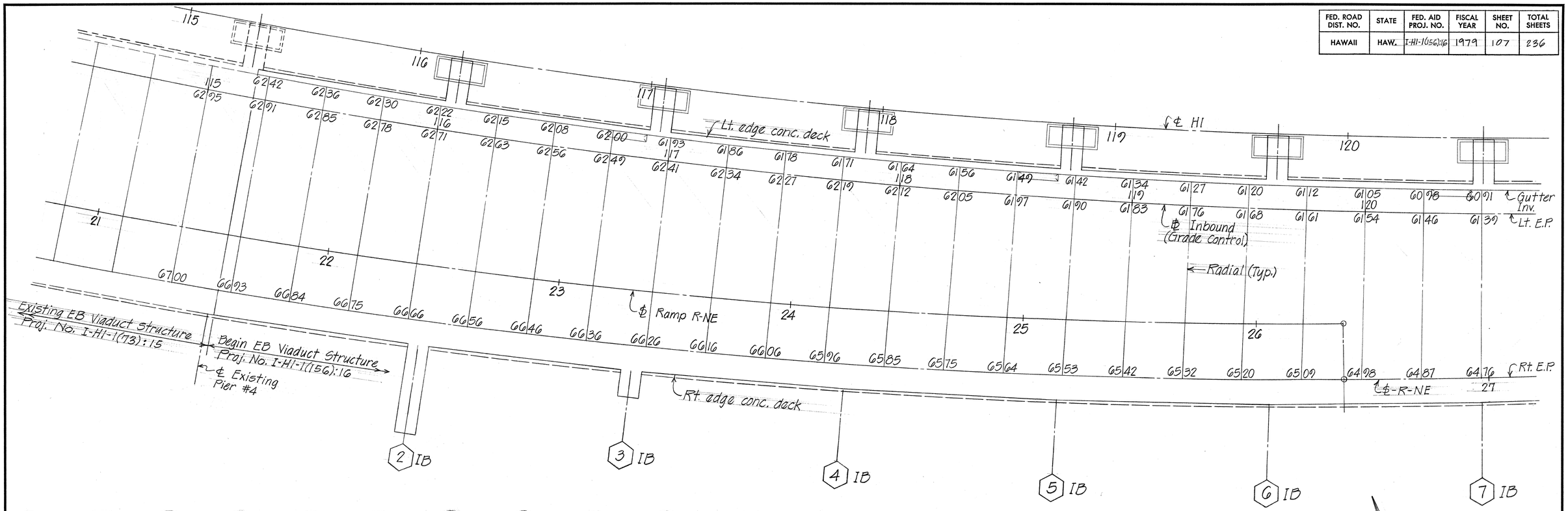
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE NOV. '78
	DRAWN BY LN	"
NOTE BOOK	TRACED BY	"
	DESIGNED BY DCO	"
	QUANTITIES BY	
No.	CHECKED BY DCO, BC	

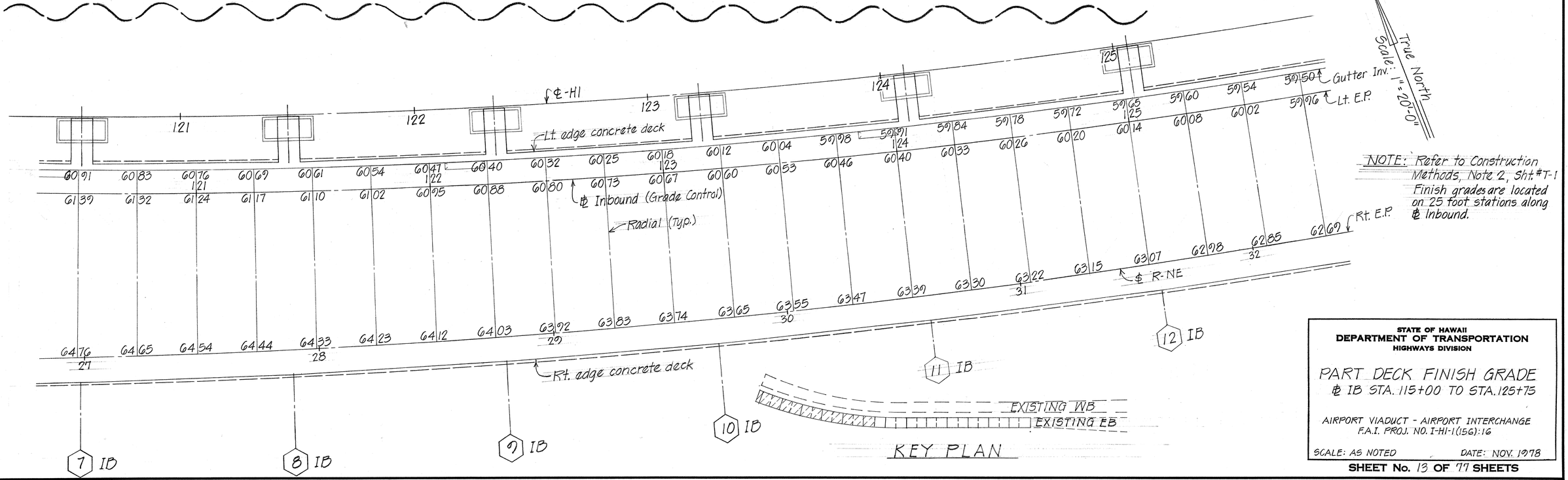
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

PART DECK LAYOUT AND FINISH GRADE PLAN
℄ IB STA. 134+72.00 TO STA. 138+28.75
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16
SCALE: AS NOTED DATE: NOV. 1978

SHEET No. 12 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(056):16	1979	107	236





NOTE: Refer to Construction Methods, Note 2, Sht.#T-1 Finish grades are located on 25 foot stations along ℄ Inbound.

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	
	DRAWN BY	LN Nov.'78
NOTE BOOK	TRACED BY	FK "
No.	DESIGNED BY	DCO "
	QUANTITIES BY	"
	CHECKED BY	DCO, EC

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PART DECK FINISH GRADE
℄ IB STA. 115+00 TO STA. 125+75

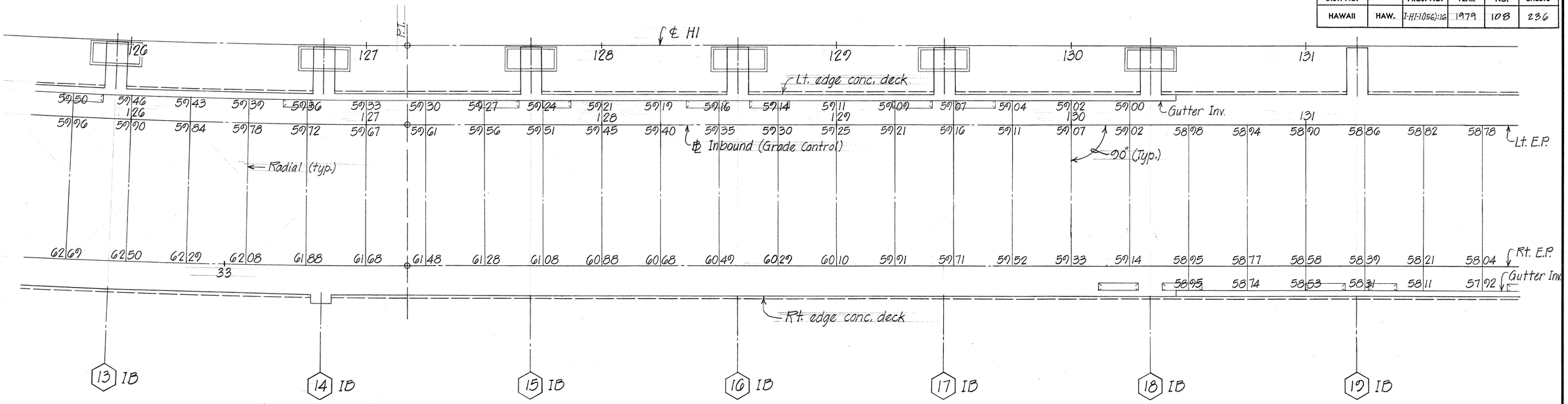
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

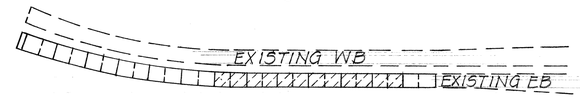
SCALE: AS NOTED DATE: NOV. 1978

SHEET No. 13 OF 77 SHEETS

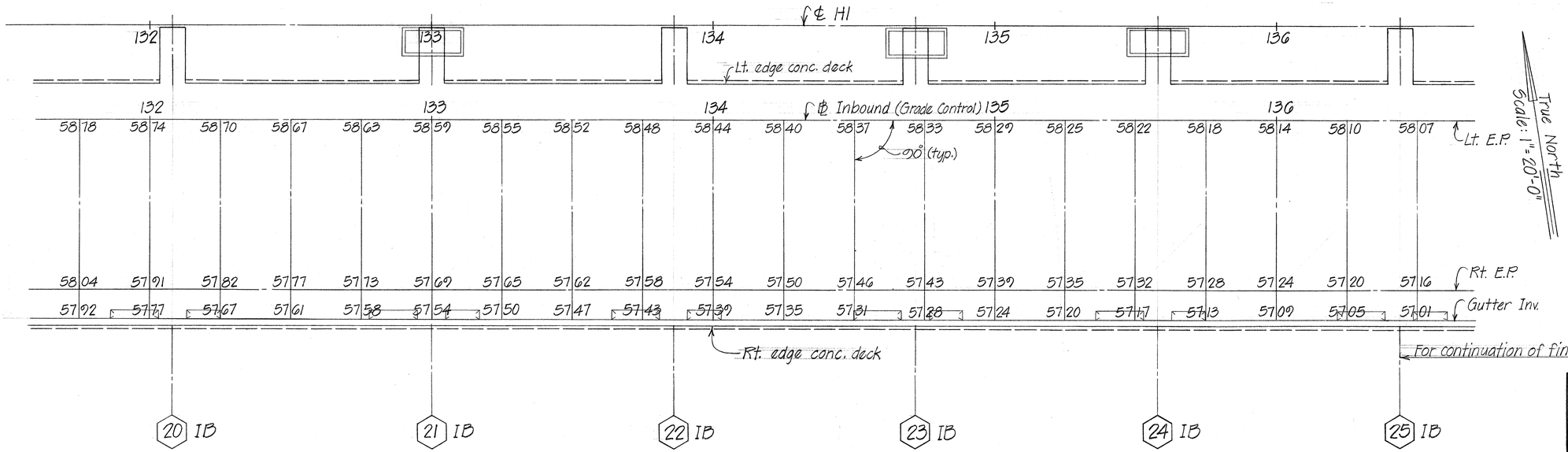
K&E CRYSTALENE® TRACING PAPER

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	108	236





KEY PLAN



True North
Scale: 1" = 20'-0"

NOTE: For additional notes, see Sht. #13.

For continuation of finish grade plan, refer to sht. # 12

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	L.N. Nov. '78
	DRAWN BY	" "
NOTE BOOK	TRACED BY	F.K.
No.	DESIGNED BY	D.S.O.
	QUANTITIES BY	
	CHECKED BY	D.G.Q. E.G.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PART DECK FINISH GRADE
℄ IB STA. 125+75 TO STA. 136+50

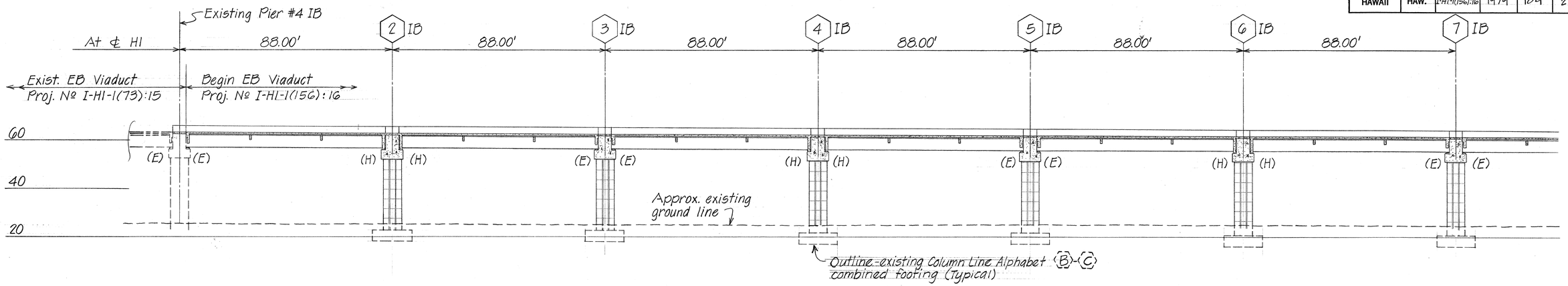
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

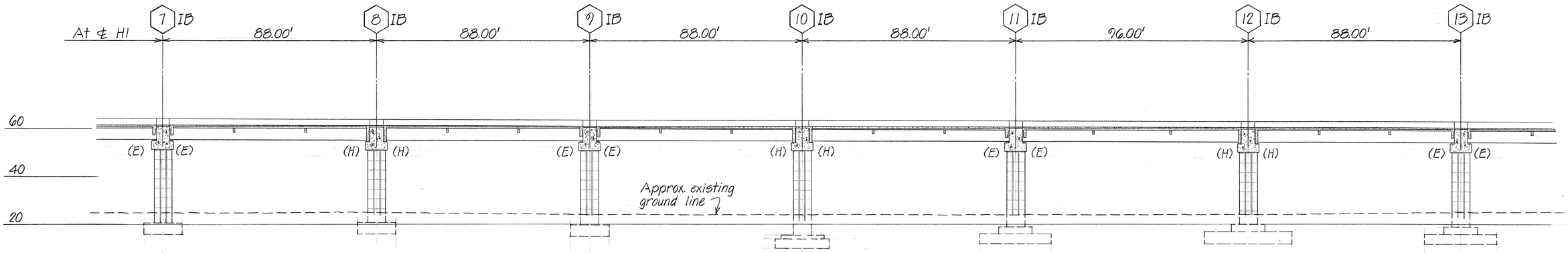
SCALE: AS NOTED DATE: NOV. 1978

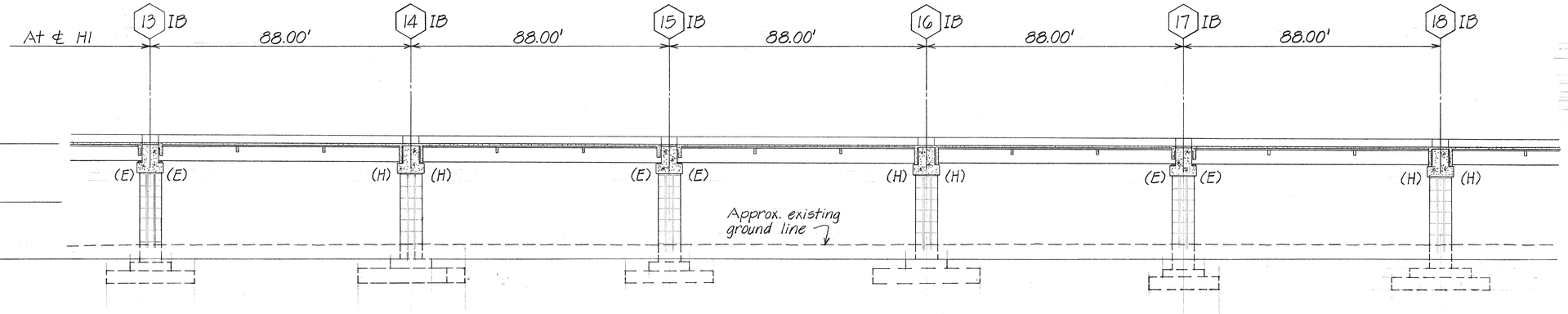
SHEET No. 14 OF 77 SHEETS

K&E CRYSTALENE® TRACING PAPER

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	109	236







REFERENCE NOTE:
For additional foundation details refer to shts. #25 thru #29 incl.

PART LONGITUDINAL DECK SECTIONS ALONG ℄ INBOUND

Scale: 1" = 20'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	LN
	DRAWN BY	" " " " "
NOTE BOOK	TRACED BY	DSD EK
No.	DESIGN BY	" " " "
	QUANTITIES BY	" " " "
	CHECKED BY	DSD EK
	DATE	NOV. '78

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PART LONGITUDINAL DECK SECTION ALONG ℄ INBOUND
STA. 115+19.89 TO STA. 130+34.00

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: AS NOTED DATE: NOV. 1978

SHEET No. 15 OF 77 SHEETS

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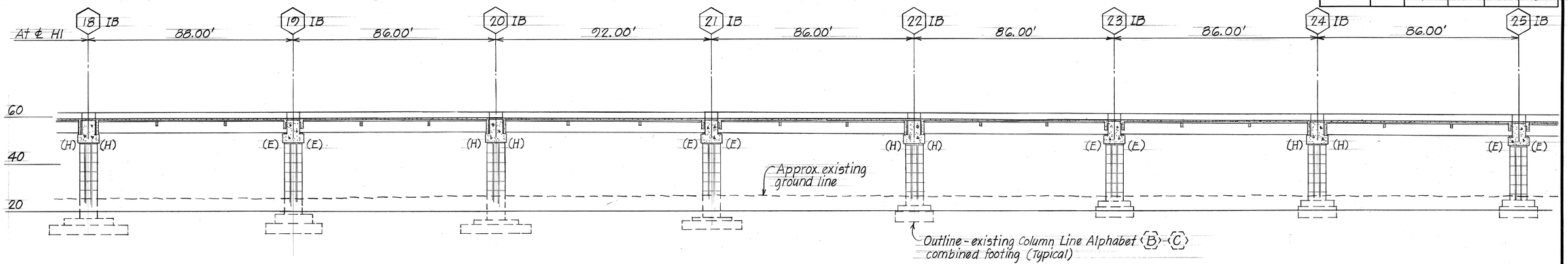
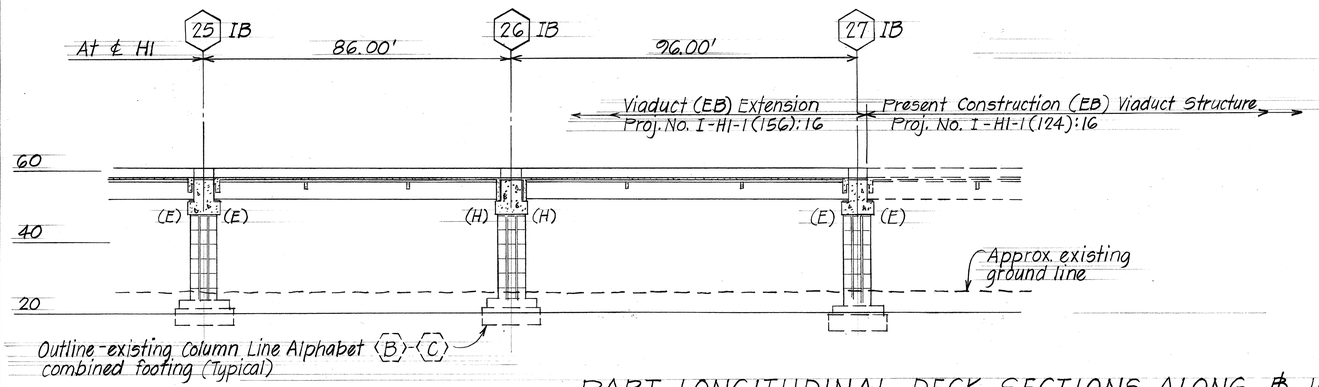
K&E TRACING PAPER

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	110	236





PART LONGITUDINAL DECK SECTIONS ALONG ℄ INBOUND

Scale : 1" = 20'-0"

REFERENCE NOTE :
For additional note, refer to sht. #15.

ORIGINAL PLAN	
NOTE BOOK	
No.	
SURVEY PLOTTED BY	
DRAWN BY	" " " " "
TRACED BY	LMA
DESIGNED BY	DGO
QUANTITIES BY	" " " " "
CHECKED BY	DGO, FG
DATE	NOV. '78

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

PART LONGITUDINAL DECK SECTION
ALONG ℄ INBOUND
STA. 130 + 34.00 TO STA. 138 + 28.75

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: AS NOTED DATE: NOV. 1978

SHEET No. 16 OF 77 SHEETS

LONGITUDINAL DECK SLAB CAMBER SCHEDULES

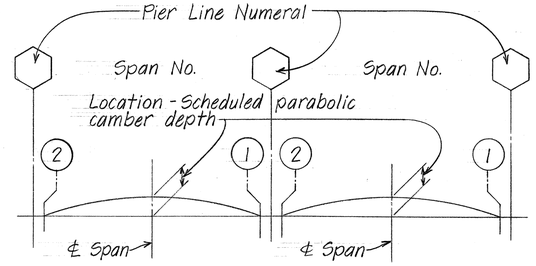
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	111	236

LOCATION / TEE OR GIRDER NUMBER	℄ Exist'g Pier #4 IB	2 IB	3 IB	4 IB	5 IB	6 IB	7 IB	8 IB	9 IB	10 IB	11 IB	12 IB	13 IB	14 IB	15 IB
	SPAN Nº 1	SPAN Nº 2	SPAN Nº 3	SPAN Nº 4	SPAN Nº 5	SPAN Nº 6	SPAN Nº 7	SPAN Nº 8	SPAN Nº 9	SPAN Nº 10	SPAN Nº 11	SPAN Nº 12	SPAN Nº 13	SPAN Nº 14	
G3	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"	5/16"	3/8"	5/16"	5/16"	5/16"	
T20	3/8"	7/16"	3/8"	7/16"	3/8"	7/16"	3/8"	7/16"	3/8"	7/16"	1/2"	7/16"	7/16"	7/16"	
T21		3/8"		3/8"		3/8"		3/8"		3/8"		3/8"	3/8"	3/8"	
T22															
T23															
T24															
T25	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	
T26															
T27															
T28															
T29						3/8"	3/8"	3/8"	3/8	3/8"	1/2"	3/8"	3/8"	3/8"	
T30						See Schedules below									
T31	3/8"	3/8"	3/8"	3/8"	3/8"										

LOCATION / TEE OR GIRDER NUMBER	℄ Exist'g Pier #4 IB	2 IB	3 IB	4 IB	5 IB	6 IB
	SPAN Nº 1	SPAN Nº 2	SPAN Nº 3	SPAN Nº 4	SPAN Nº 5	
T31					5/16"	
T31e	3/8"	3/8"	3/8"	3/8"	1/4"	
T32				3/8"		
T32c		3/8"			1/4"	
T32f	3/8"					
T32g			3/8"			
T32j				5/16"		
T33		5/16"			5/16"	
T33g						
T33c						
T33d	5/16"		3/8"			
T33e						
T33f		5/16"		3/8"		
T33g						
T34a	1/4"		3/8"		5/16"	
T34b		3/8"				
T34c				5/16"		
T34d	5/16"		5/16"			
T34e		5/16"				
T35a	5/16"					
G4						

LOCATION / TEE OR GIRDER NUMBER	6 IB	7 IB	8 IB	9 IB	10 IB	11 IB
	SPAN Nº 6	SPAN Nº 7	SPAN Nº 8	SPAN Nº 9	SPAN Nº 10	
T30	3/8"		3/8"		5/16"	
T31		3/8"		5/16"		
T30a					1/4"	
T30b			3/8"			
T30c				1/4"		
T31a	3/8"	5/16"				
T31b					5/16"	
T31c						
T31d				5/16"		
T31f		5/16"				
T31k						
T32a	5/16"		3/8"			
T32b						
T32d		3/8"				
T32e						
T32h	3/8"		5/16"	5/16"		
T33b		5/16"				
G4	5/16"				5/16"	

LOCATION / TEE OR GIRDER NUMBER	11 IB	12 IB	13 IB	14 IB	15 IB
	SPAN Nº 11	SPAN Nº 12	SPAN Nº 13	SPAN Nº 14	
T30	1/2"	3/8"	3/8"	3/8"	
T30d					
T30e		3/8"	3/8"		
T30f	1/2"			3/8"	
T31g		5/16"	5/16"		
T31h				3/8"	
T31j	7/16"				
G4				5/16"	



TYPICAL DECK SLAB CAMBER DIAGRAM

ORIGINAL PLAN
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY DOD FK
QUANTITIES BY
CHECKED BY DOD FC
DATE NOV. '78
NOTE BOOK
No.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LONGITUDINAL DECK SLAB CAMBER SCHEDULES

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

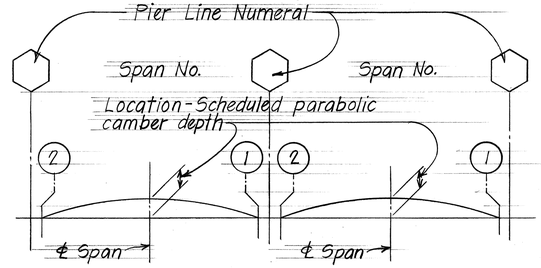
SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 17 OF 77 SHEETS

H&E ® TRACING PAPER

LONGITUDINAL DECK SLAB CAMBER SCHEDULE

LOCATION / TEE OR GIRDER NUMBER	15 IB SPAN Nº 15	16 IB SPAN Nº 16	17 IB SPAN Nº 17	18 IB SPAN Nº 18	19 IB SPAN Nº 19	20 IB SPAN Nº 20	21 IB SPAN Nº 21	22 IB SPAN Nº 22	23 IB SPAN Nº 23	24 IB SPAN Nº 24	25 IB SPAN Nº 25	26 IB SPAN Nº 26	27 IB SPAN Nº 26
G3													
T20	5/16"	5/16"	5/16"	1/4"	1/4"	5/16"	1/4"	1/4"	1/4"	1/4"	1/4"	5/16"	
T21	3/8"	3/8"	3/8"	5/16"	5/16"	3/8"	5/16"	5/16"	5/16"	5/16"	5/16"	7/16"	
T22	5/16"	5/16"	5/16"	↑	↑	↑	↑	↑	↑	↑	↑	↑	
T23	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	
T24	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	
T25	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	
T26	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	
T27	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	
T28	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
T29	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	
T30	↓	↓	5/16"	5/16"	5/16"	3/8"	5/16"	5/16"	5/16"	5/16"	5/16"	7/16"	
T31	5/16"	5/16"	3/8"	3/8"	3/8"	7/16"	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"	
T32	1/4"	1/4"	5/16"	5/16"	5/16"	3/8"	5/16"	5/16"	5/16"	5/16"	5/16"	3/8"	
G4													



TYPICAL DECK SLAB CAMBER DIAGRAM

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	112	236

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	" " NOV. '78
	TRACED BY	" " "
NOTE BOOK	DESIGNED BY DCO	" " "
	QUANTITIES BY	" " "
No.	CHECKED BY DCO, FE	" " "

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

LONGITUDINAL DECK SLAB CAMBER SCHEDULES

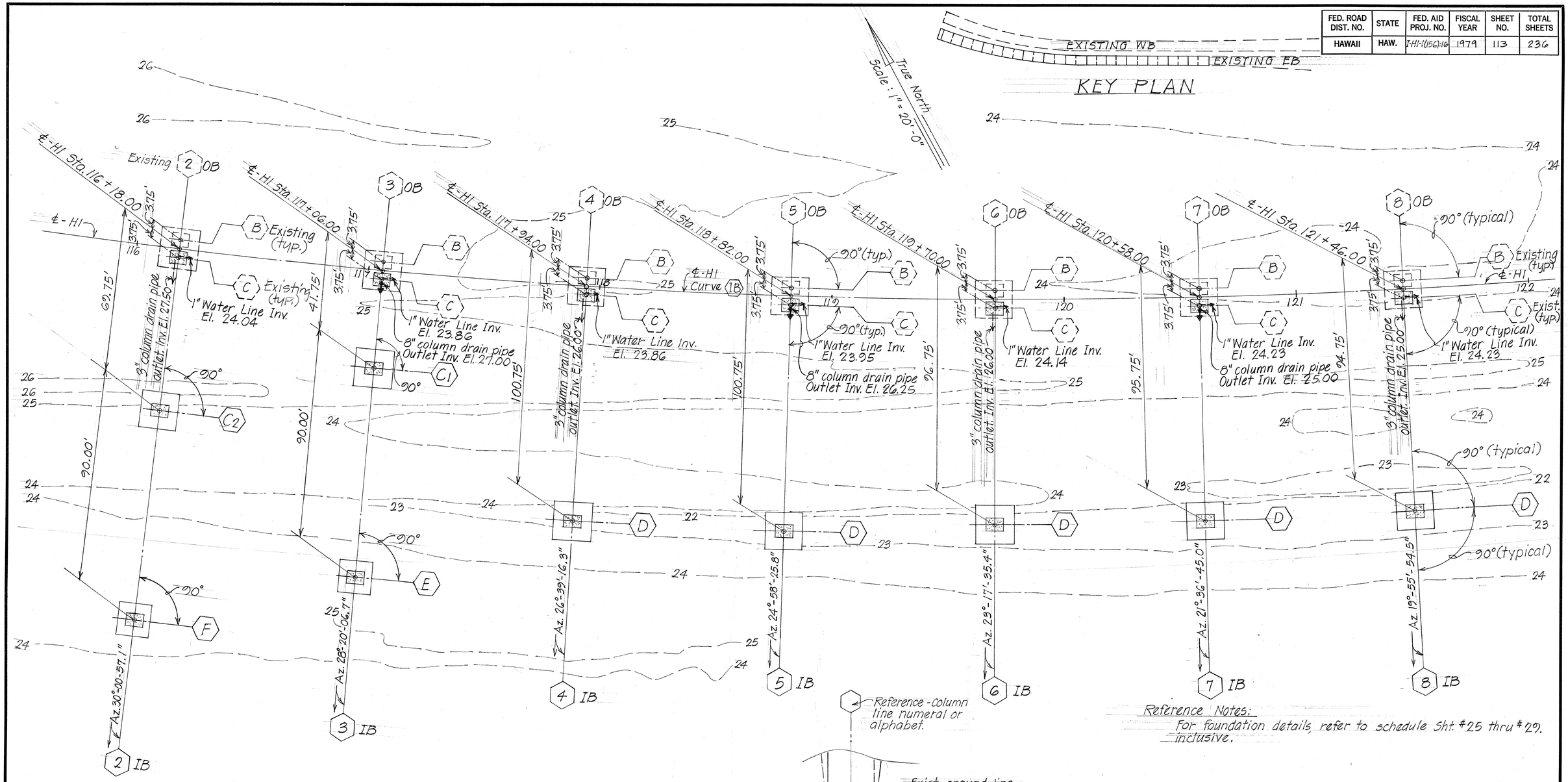
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 18 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	113	236

KEY PLAN



Reference Notes:
For foundation details, refer to schedule Sht. #25 thru #29, inclusive.

NOTE:
Removal of over burden fill materials to top of existing column pedestals or footings in preparation for columns at existing column line (C) shall be incidental to concrete & will not be paid for separately.
Adjacent diagram of typical footing structural excavation & pay limits refer only to foundation at column line alphabets (C1), (C2), (D), (E) & (F). Refer to Construction Methods, Note #6 sht. # T-1.

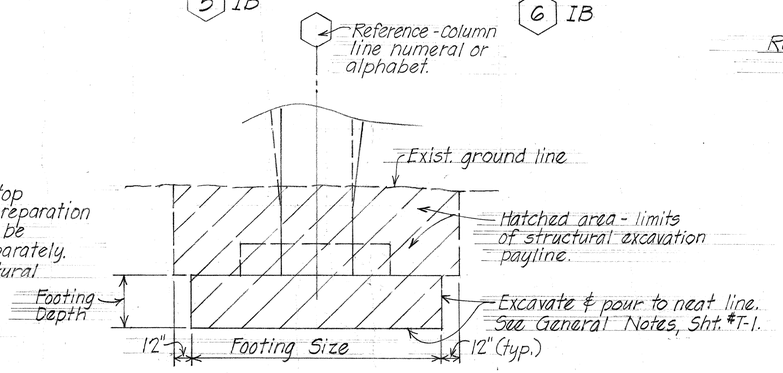


DIAGRAM - TYPICAL PIER FOUNDATION
FOOTING STRUCTURAL EXCAVATION & PAY LIMITS — Not to Scale

ORIGINAL PLAN
NOTE BOOK
No.

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY: DES. FK
QUANTITIES BY
CHECKED BY: DES. EC
DATE: NOV. '78

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

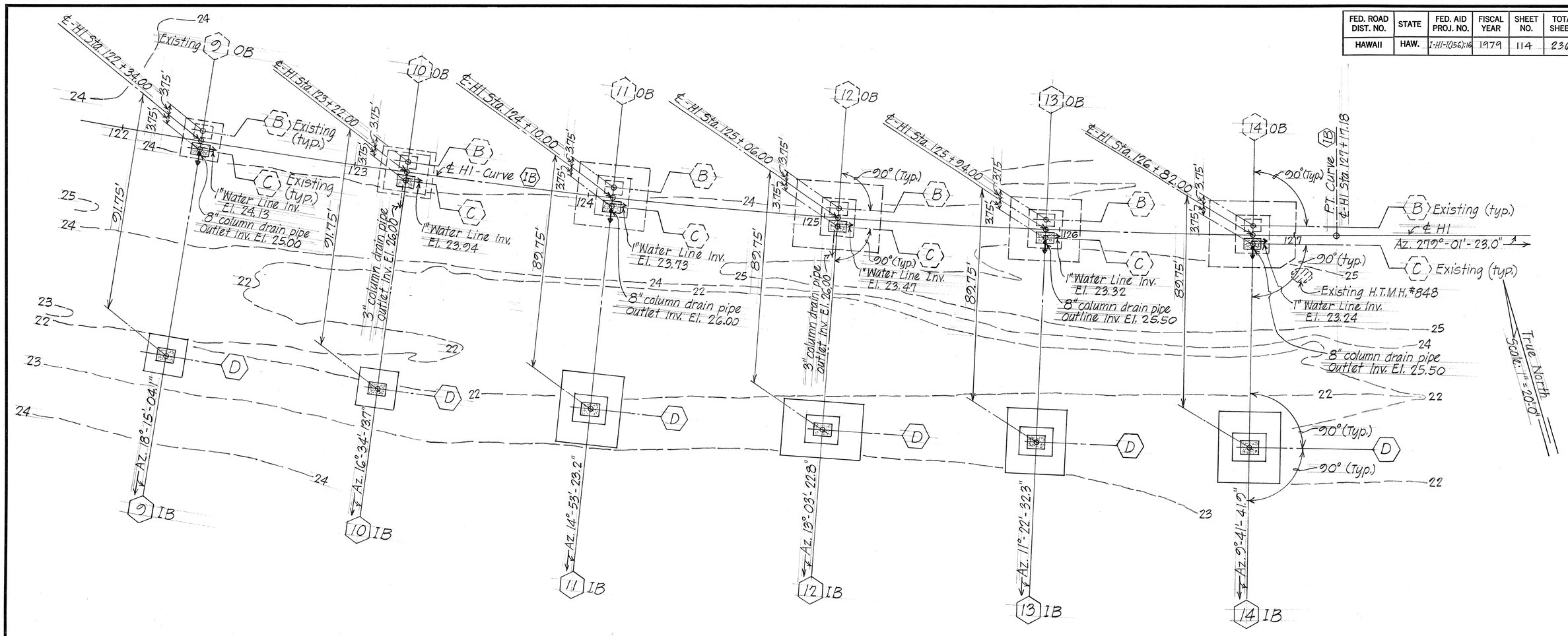
PART FOUNDATION PLAN
℄ HI STA. 116+18.00 TO STA. 121+46.00

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: AS NOTED DATE: NOV. 1978

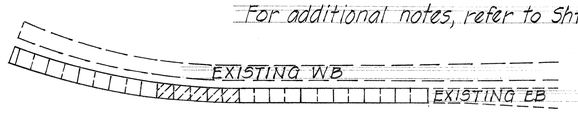
SHEET No. 19 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	114	236



NOTES:

For additional notes, refer to Sht. # 19.



KEY PLAN

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PART FOUNDATION PLAN
℄ HI STA. 122+34.00 TO STA. 126+82.00

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: AS NOTED DATE: NOV. 1978

SHEET No. 20 OF 77 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE NOV. '78
	DRAWN BY	NY " " " " "
NOTE BOOK	TRACED BY	" " " " "
	DESIGNED BY	DCO " " " "
	QUANTITIES BY	" " " " "
No.	CHECKED BY	DCO; FC " " "

K+E TRACING PAPER

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	115	236

℄-HI Sta. 127+17.18 P.T. Curve IB

Existing 15 OB

℄-HI Sta. 127+70.00

Exist. (B) (typ.)

℄-HI

Exist. (C) (typ.)

℄-HI Az. 279°-01'-23.0"

3.75' 3.75'

89.75' 89.75'

128

1" Water Line Inv. El. 23.25

8" column drain pipe Outlet Inv. El. 25.50

16 OB

℄-HI Sta. 128+58.00

129

1" Water Line Inv. El. 23.36

8" column drain pipe Outlet Inv. El. 26.0

17 OB

℄-HI Sta. 129+46.00

130

1" Water Line Inv. El. 23.54

8" column drain pipe Outlet Inv. El. 26.0

18 OB

℄-HI Sta. 130+34.00

3" Column drain pipe outlet. Inv. El. 26.00

1" Water Line Inv. El. 23.73

8" column drain pipe Outlet Inv. El. 25.50

19 OB

℄-HI Sta. 131+22.00

131

8" column drain pipe Outlet Inv. El. 25.50

20 OB

℄-HI Sta. 132+08.00

132

8" column drain pipe Outlet Inv. El. 26.0

21 OB

℄-HI Sta. 133+00.00

3" Column drain pipe outlet Inv. El. 27.00

8" column drain pipe Outlet Inv. El. 26.50

90° (typical)

(B) Existing (typ.)

(C) Existing (typ.)

1" Water Line Inv. El. 24.31

Az. 9°-01'-23.0"

15 IB 16 IB 17 IB 18 IB 19 IB 20 IB 21 IB

EXISTING WB EXISTING EB

℄-HI Sta. 133+86.00 Existing 22 OB

Exist. (typ.) (B) ℄-HI (C) Exist. (typ.)

℄-HI Az. 279°-01'-23.0"

134

8" column drain pipe Outlet Inv. El. 26.50

℄-HI Sta. 134+72.00 23 OB

135

1" Water Line Inv. El. 24.68

3" Column drain pipe outlet. Inv. El. 27.00

8" column drain pipe Outlet Inv. El. 27.25

℄-HI Sta. 135+58.00 24 OB

136

1" Water Line Inv. El. 24.87

3" Column drain pipe outlet. Inv. El. 27.00

8" column drain pipe Outlet Inv. El. 27.25

℄-HI Sta. 136+44.00 25 OB

137

8" column drain pipe Outlet Inv. El. 27.25

℄-HI Sta. 137+30.00 26 OB

138

8" column drain pipe Outlet Inv. El. 27.25

℄-HI Sta. 138+26.00 27 OB

90° (typ.)

(B) Existing (typ.)

(C) Existing (typ.)

1" Water Line Inv. El. 25.45

3" Column drain pipe outlet Inv. El. 28.00

8" column drain pipe Outlet Invert El. 27.0

22 IB 23 IB 24 IB 25 IB 26 IB 27 IB

KEY PLAN

True North

Scale: 1" = 20'-0"

NOTE:
For additional notes, refer to sht. # 19.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE NOV. '78
	DRAWN BY LMA	" "
	TRACED BY	" "
NOTE BOOK	DESIGNED BY DCO EK	" "
	QUANTITIES BY	" "
No.	CHECKED BY DCO : EC	" "

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

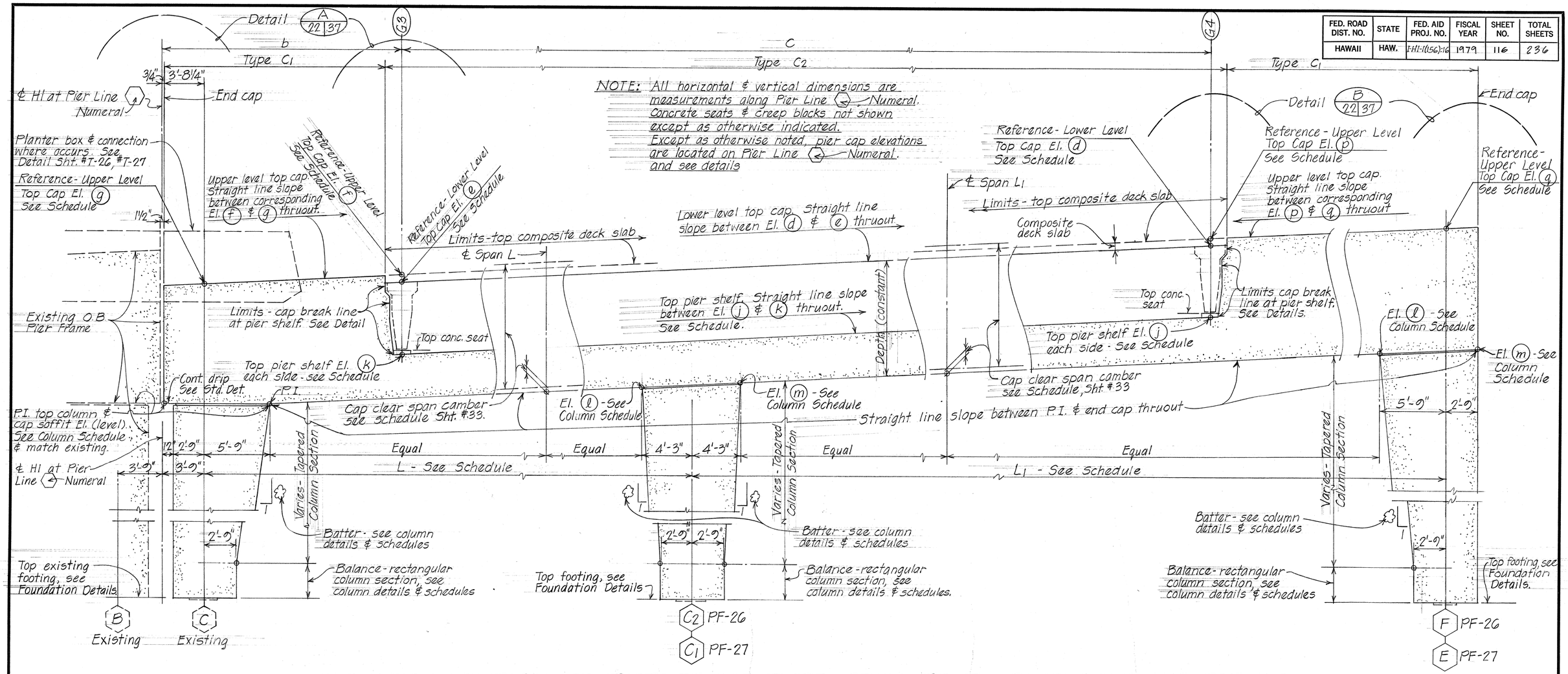
PART FOUNDATION PLAN
℄ HI STA. 127+70.00 TO STA. 138+26.00

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: AS NOTED DATE: NOV. 1978

SHEET No. 21 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	116	236



ELEVATION - TYPICAL IB PIER FRAME TYPE PF-26, PF-27 - DIMENSIONS AND DETAILS

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

NOTES

1. Refer to Sht. #34, #35 for pier frame cap reinforcement.
2. Refer to Sht. #33 for pier frame cap dimensions & elevations schedule.
3. Refer to Sht. #42 for various pier frame cap section types & details.
4. Refer to Sht. #25, #27, #28 for pier frame column schedules.
5. Refer to Sht. #49 for typical pier frame cap concrete seat location plans & details.
6. For deck drain details in pier frame, refer to typical details sht. #T-22 thru #T-24 incl.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE NOV. '78
	DRAWN BY KN	
NOTE BOOK	TRACED BY "	
No.	DESIGNED BY "	
	QUANTITIES BY DCQ	
	CHECKED BY DCQ, EC	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL PIER FRAMES
PF-26 AND PF-27
DIMENSIONS AND DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(15G):16

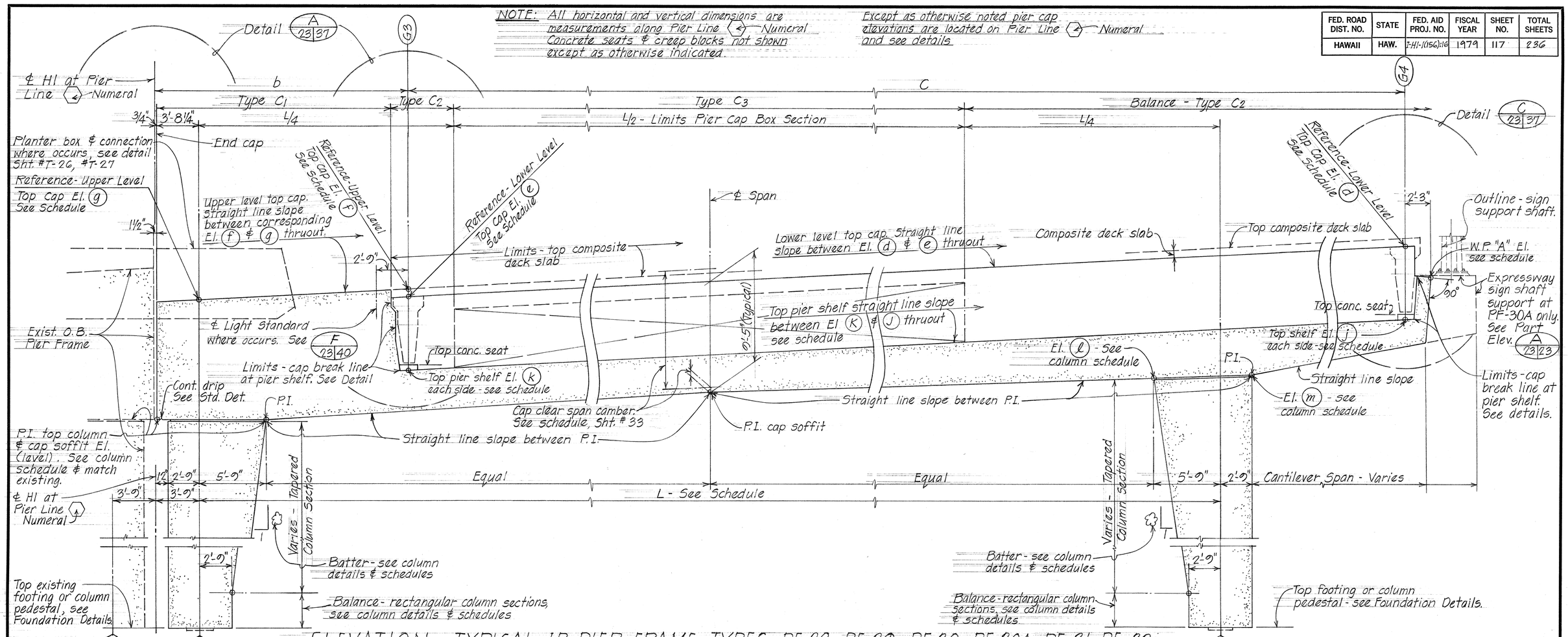
SCALE: AS NOTED DATE: NOV. 1978

SHEET No. 22 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	117	236

NOTE: All horizontal and vertical dimensions are measurements along Pier Line (℄ Numeral) Concrete seats & creep blocks not shown except as otherwise indicated.

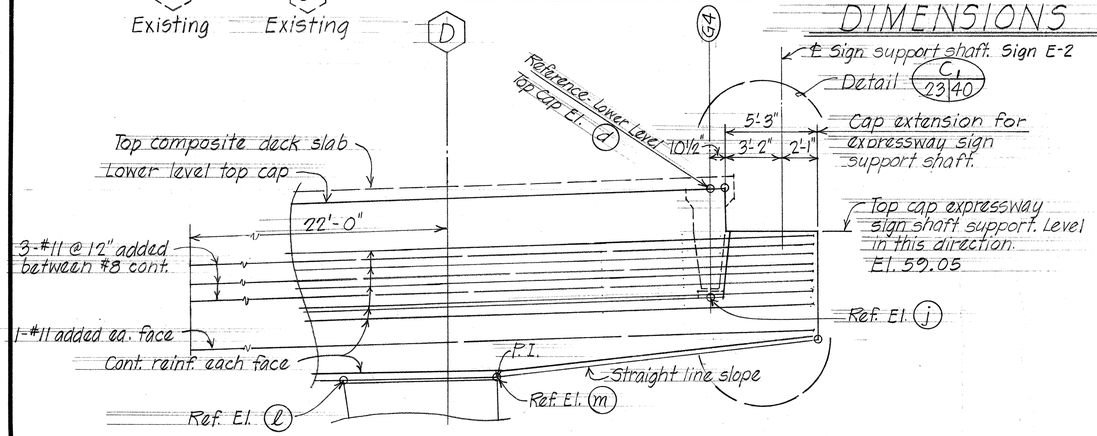
Except as otherwise noted pier cap elevations are located on Pier Line (℄ Numeral) and see details



ELEVATION - TYPICAL IB PIER FRAME TYPES PF-28, PF-29, PF-30, PF-30A, PF-31, PF-32

DIMENSIONS & DETAILS

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



PART ELEVATION A 23|23 - I.B. PIER FRAME PF-30A

E5-2, 36, 40

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

NOTES:

1. Refer to Sht. #36 #43 thru #46 incl. for pier frame cap reinforcement.
2. Refer to sht. #33 for pier frame cap dimensions & elevations schedule.
3. Refer to Sht. #42 for various pier frame cap section types & details.
4. Refer to Sht. #25, #27 for pier frame column schedule.
5. Refer to Sht. #40 for typical pier frame cap concrete seat location plans & details.
6. For deck drain detail in pier frame, refer to typical details sht. #T-22 thru #T-24 incl.

ORIGINAL PLAN	SURVEY PLOTTED BY	NY	DATE	NOV. '78
	DRAWN BY	"	"	"
	TRACED BY	DCO	"	"
NOTE BOOK	DESIGNED BY	TK-W	"	"
	QUANTITIES BY	GT	"	"
No.	CHECKED BY	DCO	TC	"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL PIER FRAMES PF-28 THRU PF-32 INCLUSIVE DIMENSIONS AND DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

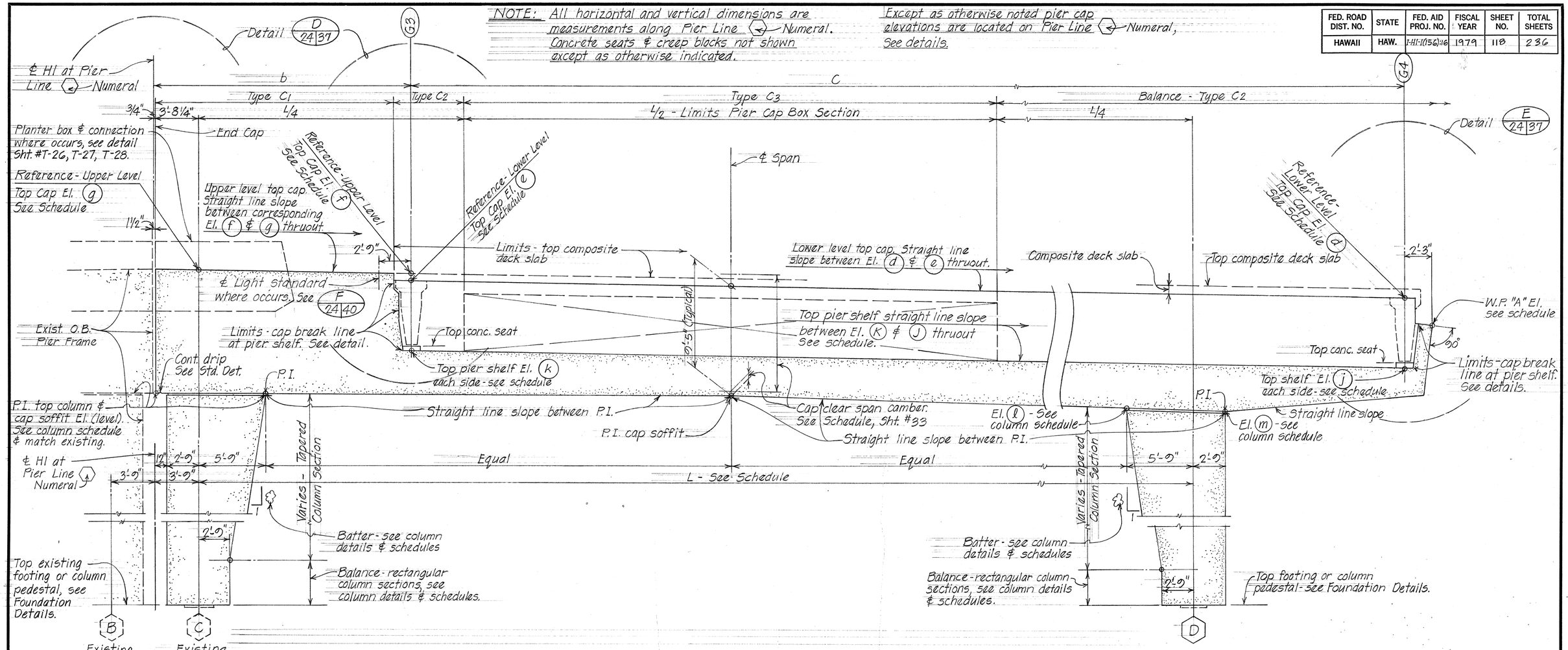
SCALE: AS NOTED DATE: NOV. 1978

SHEET No. 23 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(056):16	1979	118	236

NOTE: All horizontal and vertical dimensions are measurements along Pier Line ⟨Numeral⟩. Concrete seats & creep blocks not shown except as otherwise indicated.

Except as otherwise noted pier cap elevations are located on Pier Line ⟨Numeral⟩, See details.



ELEVATION - TYPICAL IB PIER FRAME TYPES PF-33 – DIMENSIONS AND DETAILS

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

NOTES

1. Refer to sht. # 36, #46, #47 for pier frame cap reinforcement.
2. Refer to sht. # 33 for pier frame cap dimensions & elevation schedule.
3. Refer to sht. # 42 for various pier frame cap section types & details.
4. Refer to sht. # 25 thru # 28 inclusive for pier frame column schedule.
5. Refer to sht. # 49 for typical pier frame cap concrete seat location plans and details.
6. For deck drain details in pier frame, refer to typical details sht. #T-22 thru # T-25 inclusive.

ORIGINAL PLAN		
NOTE BOOK	SURVEY PLOTTED BY	DATE NOV. '78
No.	DRAWN BY	NY
	TRACED BY	" " " "
	DESIGNED BY	DCO " "
	QUANTITIES BY	TEM GT
	CHECKED BY	DCO FC

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL PIER FRAME
PF-33
DIMENSIONS AND DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: AS NOTED DATE: NOV. 1978

SHEET No. 24 OF 77 SHEETS

K+E TRACING PAPER

PIER FRAME COLUMN SCHEDULE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(056):16	1979	119	236

EXISTING COLUMN LINE NOS. IB / LOCATIONS	2C	3C	4C	5C	6C	7C	8C	9C	10C	11C	12C	13C	14C	15C	16C	17C	18C	19C	20C	21C	22C	23C	24C	25C	26C
TOP COLUMN ELEVATION (MATCH EXISTING)	51.12	50.85	50.58	50.32	50.05	49.78	49.52	49.25	49.00	48.76	48.50	48.38	48.38	48.39	48.41	48.44	48.48	48.54	48.56	48.44	48.31	48.18	48.06	47.93	47.80
TOP PIER CAP																									
REFERENCE TOP COLUMN ELEVATION (See Above)	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"
TAPERED COLUMN SIZE & VERTICAL REINFORCEMENT	Balance 48-#14 54-#14 8'-6"/5'-6" (Taper 9:1) x 7'-6" Type I	Balance 40-#18 52-#18 66-#18 8'-6"/5'-6" (Taper 9:1) x 7'-6" Type I	Balance 40-#18 64-#18 82-#18 8'-6"/5'-6" (Taper 9:1) x 7'-6" Type I	Balance 40-#18 64-#18 74-#18 8'-6"/5'-6" (Taper 9:1) x 7'-6" Type I	Balance 40-#18 64-#18 70-#18 8'-6"/5'-6" (Taper 9:1) x 7'-6" Type I	Balance 40-#18 52-#18 62-#18 8'-6"/5'-6" (Taper 9:1) x 7'-6" Type I	Balance 40-#18 52-#18 66-#18 8'-6"/5'-6" (Taper 9:1) x 7'-6" Type I	Balance 48-#14 64-#14 90-#14 8'-6"/5'-6" (Taper 9:1) x 7'-6" Type I	Balance 40-#18 52-#18 58-#18 8'-6"/5'-6" (Taper 9:1) x 7'-6" Type I	Balance 48-#14 52-#14 66-#14 8'-6"/5'-6" (Taper 9:1) x 7'-6" Type I	Balance 48-#14 64-#14 86-#14 8'-6"/5'-6" (Taper 9:1) x 7'-6" Type I	Balance 48-#14 64-#14 70-#14 8'-6"/5'-6" (Taper 9:1) x 7'-6" Type I	Balance 48-#14 64-#14 74-#14 8'-6"/5'-6" (Taper 9:1) x 7'-6" Type I	Balance 48-#14 64-#14 70-#14 8'-6"/5'-6" (Taper 9:1) x 7'-6" Type I	Balance 48-#14 64-#14 74-#14 8'-6"/5'-6" (Taper 9:1) x 7'-6" Type I	Balance 48-#14 64-#14 70-#14 8'-6"/5'-6" (Taper 9:1) x 7'-6" Type I	Balance 48-#14 64-#14 74-#14 8'-6"/5'-6" (Taper 9:1) x 7'-6" Type I	Balance 48-#14 64-#14 70-#14 8'-6"/5'-6" (Taper 9:1) x 7'-6" Type I	Balance 48-#14 64-#14 74-#14 8'-6"/5'-6" (Taper 9:1) x 7'-6" Type I	Balance 48-#14 64-#14 74-#14 8'-6"/5'-6" (Taper 9:1) x 7'-6" Type I	Balance 48-#14 64-#14 74-#14 8'-6"/5'-6" (Taper 9:1) x 7'-6" Type I	Balance 48-#14 64-#14 86-#14 8'-6"/5'-6" (Taper 9:1) x 7'-6" Type I	Balance 48-#14 64-#14 82-#14 8'-6"/5'-6" (Taper 9:1) x 7'-6" Type I	Balance 48-#14 64-#14 86-#14 8'-6"/5'-6" (Taper 8:1) x 7'-6" Type I	Balance 48-#14 64-#14 82-#14 8'-6"/5'-6" (Taper 8:1) x 7'-6" Type I	Balance 48-#14 64-#14 90-#14 8'-6"/5'-6" (Taper 8:1) x 7'-6" Type I
RECTANGULAR COLUMN SIZE & VERTICAL REINFORCEMENT / COLUMN BASE	8'-3" 32-#14 5'-6"x7'-6" Type I	8'-3" 24-#18 5'-6"x7'-6" Type I	8'-3" 24-#18 5'-6"x7'-6" Type I	8'-3" 24-#18 5'-6"x7'-6" Type I	8'-3" 24-#18 5'-6"x7'-6" Type I	8'-3" 24-#18 5'-6"x7'-6" Type I	8'-3" 24-#18 5'-6"x7'-6" Type I	8'-3" 32-#14 5'-6"x7'-6" Type I	8'-3" 24-#18 5'-6"x7'-6" Type I	8'-3" 32-#14 5'-6"x7'-6" Type I	8'-3" 32-#14 5'-6"x7'-6" Type I	8'-3" 32A-#14 5'-6"x7'-6" Type I	8'-3" 32A-#14 5'-6"x7'-6" Type I	8'-3" 32A-#14 5'-6"x7'-6" Type I	8'-3" 32A-#14 5'-6"x7'-6" Type I	8'-3" 32A-#14 5'-6"x7'-6" Type I	8'-3" 32A-#14 5'-6"x7'-6" Type I	8'-3" 32A-#14 5'-6"x7'-6" Type I	8'-3" 32A-#14 5'-6"x7'-6" Type I	8'-3" 32A-#14 5'-6"x7'-6" Type I	8'-3" 32A-#14 5'-6"x7'-6" Type I	8'-3" 32A-#14 5'-6"x7'-6" Type I	8'-3" 32A-#14 5'-6"x7'-6" Type I	8'-3" 32A-#14 5'-6"x7'-6" Type I
* EXISTING COLUMN BASE HINGE DOWEL & JACKET	36-#18 ℄4-#5	DO	DO	DO	DO	DO	DO	DO	DO	DO	36-#18 ℄4-#5	38-#18 ℄4-#5	DO	DO	DO	DO	DO	DO	DO	DO	DO	DO	DO	DO	38-#18 ℄4-#5
* EXISTING COLUMN PEDESTAL TOP ELEVATION									15.50	10.00	20.00	10.00	20.00	10.00	20.00	16.50	17.00	18.50	16.00	17.00					
* EXISTING COMBINED FOOTING-TOP ELEVATION (W/O PEDESTAL)	22.75	22.75	21.75	21.75	20.75	20.75	20.75	19.75													10.75	21.75	21.75	21.75	21.75

* The Engineer and Contractor shall verify the locations and details before commencing with work.

REFERENCE NOTES

1. Refer to Sht. #T-5, #T-6, #30, #31, #32 for pier frame column details & sections.
2. Refer to Sht. #T-2, #T-3, #T-4, #29 for foundation details.

ORIGINAL PLAN

NOTE BOOK No.

SURVEY PLOTTED BY NY DATE NOV. '78
DRAWN BY " " " "
TRACED BY " " " "
DESIGNED BY DCO
QUANTITIES BY TKM
CHECKED BY DCO; FC

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PART PIER FRAME COLUMN SCHEDULE

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 25 OF 77 SHEETS

K+E ® TRACING PAPER

PIER FRAME COLUMN SCHEDULE

EXISTING COLUMN LINE NOS. IB / LOCATIONS	27C
TOP COLUMN ELEVATION (MATCH EXISTING)	47.65
TOP PIER CAP	
REFERENCE TOP COLUMN ELEVATION (See Above)	9'-6" 90-#14 8'-6"/5'-6" x 7'-6" (Taper 8:1) Type I
TAPERED COLUMN SIZE & VERTICAL REINFORCEMENT	4'-6" 64-#14 Balance 48-#14 8'-6"/5'-6" (Taper 8:1) x 7'-6" Type I
BASE OF TAPERED COLUMN	
RECTANGULAR COLUMN SIZE & VERTICAL REINFORCEMENT	8'-3" 32A-#14 5'-6" x 7'-6" Type I
COLUMN BASE	
* EXISTING COLUMN BASE HINGE DOWEL & JACKET	38-#18 & 4-#5
* EXISTING COLUMN PEDESTAL TOP ELEVATION	X
* EXISTING COMBINED FOOTING - TOP ELEVATION (W/O PEDESTAL)	19.75

* The Engineer and Contractor shall verify the locations and details before commencing with work.

NOTE:
For additional note, refer to sht. #25

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	120	236

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	
	DRAWN BY	"
	TRACED BY	"
	DESIGNED BY LMA	"
NOTE BOOK	QUANTITIES BY DLG	"
No.	CHECKED BY DCO, FC	"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

PART PIER FRAME
COLUMN SCHEDULE

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16
SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 26 OF 77 SHEETS

PIER FRAME COLUMN SCHEDULE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(056);16	1979	121	236

COLUMN NOS. / LOCATIONS	2C2	3C1	4D	5D	6D	7D	8D	9D	10D	11D	12D	13D	14D	15D	16D	17D	18D	19D	20D	21D	22D	23D	24D	25D	26D
TOP COLUMN ℓ	53.82	52.20	54.69	54.42	53.96	53.65	53.33	52.92	52.67	52.33	52.08	51.65	51.01	50.38	49.76	49.16	48.56	47.98	47.51	47.33	47.20	47.07	46.94	46.81	46.68
TOP COLUMN ELEVATION m	54.22	52.60	55.00	54.73	54.26	53.95	53.63	53.22	52.97	52.63	52.37	51.91	51.19	50.49	49.80	49.13	48.46	47.81	47.27	47.08	46.95	46.83	46.70	46.57	46.44
TOP PIER CAP																									
REFERENCE TOP COLUMN (See Above)																									
TAPERED COLUMN SIZE & VERTICAL REINFORCEMENT	Balance 40-#14 46-#14 8'-6"/5'-6"(Taper 20:1 ea. edge) x 7'-6" Type IV	Balance 40-#14 46-#14 8'-6"/5'-6"(Taper 20:1 ea. edge) x 7'-6" Type IV	Balance 40-#18 54-#18 8'-6"/5'-6"(Taper 11:1) x 7'-6" Type III	Balance 48-#14 60-#14 8'-6"/5'-6"(Taper 11:1) x 7'-6" Type II	Balance 70-#14 74-#14 8'-6"/5'-6"(Taper 11:1) x 7'-6" Type II	Balance 48-#14 64-#14 70-#14 8'-6"/5'-6"(Taper 11:1) x 7'-6" Type II	Balance 64-#14 74-#14 8'-6"/5'-6"(Taper 11:1) x 7'-6" Type II	Balance 40-#14 58-#14 8'-6"/5'-6"(Taper 11:1) x 7'-6" Type II	Balance 48-#14 62-#14 8'-6"/5'-6"(Taper 11:1) x 7'-6" Type II	Balance 48-#14 52-#14 66-#14 8'-6"/5'-6"(Taper 11:1) x 7'-6" Type I	Balance 48-#14 64-#14 82-#14 8'-6"/5'-6"(Taper 10:1) x 7'-6" Type I	Balance 48-#14 58-#14 8'-6"/5'-6"(Taper 10:1) x 7'-6" Type I	Balance 52-#14 66-#14 8'-6"/5'-6"(Taper 10:1) x 7'-6" Type I	Balance 48-#14 58-#14 8'-6"/5'-6"(Taper 10:1) x 7'-6" Type I	Balance 52-#14 66-#14 8'-6"/5'-6"(Taper 9:1) x 7'-6" Type I	Balance 48-#14 58-#14 8'-6"/5'-6"(Taper 9:1) x 7'-6" Type I	Balance 52-#14 66-#14 8'-6"/5'-6"(Taper 9:1) x 7'-6" Type I	Balance 48-#14 58-#14 8'-6"/5'-6"(Taper 9:1) x 7'-6" Type I	Balance 52-#14 66-#14 8'-6"/5'-6"(Taper 9:1) x 7'-6" Type I	Balance 48-#14 58-#14 8'-6"/5'-6"(Taper 9:1) x 7'-6" Type I	Balance 52-#14 66-#14 8'-6"/5'-6"(Taper 9:1) x 7'-6" Type I	Balance 48-#14 66-#14 8'-6"/5'-6"(Taper 8:1) x 7'-6" Type I	Balance 48-#14 66-#14 8'-6"/5'-6"(Taper 8:1) x 7'-6" Type I	Balance 48-#14 66-#14 8'-6"/5'-6"(Taper 8:1) x 7'-6" Type I	Balance 64-#14 74-#14 8'-6"/5'-6"(Taper 8:1) x 7'-6" Type I
BASE OF TAPERED COLUMN	8'-3"	8'-3"	8'-3"	8'-3"	8'-3"	8'-3"	8'-3"	8'-3"	8'-3"	8'-3"	8'-3"	8'-3"	8'-3"	8'-3"	8'-3"	8'-3"	8'-3"	8'-3"	8'-3"	8'-3"	8'-3"	8'-3"	8'-3"	8'-3"	8'-3"
RECTANGULAR COLUMN SIZE & VERTICAL REINFORCEMENT	52A-#14 5'-6"x7'-6" Type IV	60-#14 5'-6"x7'-6" Type IV	52A-#18 5'-6"x7'-6" Type III	60-#14 5'-6"x7'-6" Type II	90A-#14 5'-6"x7'-6" Type II	60-#14 5'-6"x7'-6" Type II	80-#14 5'-6"x7'-6" Type II	52A-#14 5'-6"x7'-6" Type II	68-#14 5'-6"x7'-6" Type II	32-#14 5'-6"x7'-6" Type I	32-#14 5'-6"x7'-6" Type I	32-#14 5'-6"x7'-6" Type I	32-#14 5'-6"x7'-6" Type I	32-#14 5'-6"x7'-6" Type I	32-#14 5'-6"x7'-6" Type I	32-#14 5'-6"x7'-6" Type I	6'-0" 32-#14 5'-6"x7'-6" Type I	32-#14 5'-6"x7'-6" Type I	32-#14 5'-6"x7'-6" Type I	6'-3" 32-#14 5'-6"x7'-6" Type I	32-#14 5'-6"x7'-6" Type I	32-#14 5'-6"x7'-6" Type I	32-#14 5'-6"x7'-6" Type I	32-#14 5'-6"x7'-6" Type I
COLUMN BASE — HINGED DOWEL TYPE										HD-36 ₵ 4-#5	HD-36 ₵ 4-#5	HD-36 ₵ 4-#5	HD-36 ₵ 4-#5	HD-36 ₵ 4-#5	HD-36 ₵ 4-#5	HD-36 ₵ 4-#5	HD-36 ₵ 4-#5	HD-36 ₵ 4-#5	HD-36 ₵ 4-#5	HD-36 ₵ 4-#5	HD-36 ₵ 4-#5	HD-36 ₵ 4-#5	HD-36 ₵ 4-#5	HD-36 ₵ 4-#5	HD-36 ₵ 4-#5
COLUMN BASE — FIXED BEND INTO FTG	52A-#14	60-#14	52A-#18	60-#14	90A-#14	60-#14	80-#14	52A-#14	68-#14																
COLUMN PEDESTAL TYPE										CP-1	CP-1	CP-1	CP-1	CP-1	CP-1	CP-1	CP-1	CP-2							
FOOTING TYPE	F-4	F-5	F-5	F-4	F-5	F-4	F-4	F-4	F-4	F-16	F-11	F-15	F-16	F-15	F-16	F-15	F-16	F-9	F-3	F-6	F-2	F-2	F-2	F-2	F-2
GROUP LOADING	VII	I	VII	I	VII	I	VII	I	VII	I	I	I	VII	I	VII	I	VII	I	VII	VII	VII	VII	VII	VII	VII
SOIL PRESSURE (KIPS/FT²)	37.77	38.66	38.27	38.17	37.99	35.60	39.11	33.51	37.46	8.00	8.00	7.73	8.00	7.76	8.00	7.64	7.93	11.99	33.74	24.19	34.99	26.36	33.86	26.20	36.57
BOTTOM FOOTING ELEVATION	18.00	17.00	16.00	16.00	15.50	15.50	15.00	10.00	10.00	11.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	9.00	10.00	12.00	14.50	17.00	17.00	17.00	17.00

REFERENCE NOTES

1. Refer to Sht. #T-5, #T-6, #30, #31, #32 for pier frame column details & sections Types I, II.
2. Refer to Sht. #T-7 #30 and #31 for pier frame column details & sections Type IV.
3. Refer to Sht. #T-2, #T-3, #T-4, # 29 for foundation details.

ORIGINAL PLAN		DATE
NOTE BOOK	SURVEY PLOTTED BY	NOV. '78
No.	DRAWN BY NY	"
	TRACED BY	"
	DESIGN BY DCO	"
	QUANTITIES BY TKM LM GT	"
	CHECKED BY DCO FC	"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PART PIER FRAME
COLUMN SCHEDULE

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 27 OF 77 SHEETS

PIER FRAME COLUMN SCHEDULE

COLUMN NOS. / LOCATIONS		27D					2F	3E
TOP COLUMN ELEVATION	ℓ	46.54					58.06	56.44
	m	46.29					58.46	56.85
TOP PIER CAP								
REFERENCE TOP COLUMN (See Above)								
TAPERED COLUMN SIZE & VERTICAL REINFORCEMENT		3'-0" 64-#14 74-#14 0'-6" / Balance 48-#14 / 8'-6"/5'-6" (Taper 8:1) x 7'-6" Type I					8'-9" 52-#18 58-#18 0'-6" / Balance 40-#18 / 8'-6"/5'-6" (Taper 12:1) x 7'-6" Type I	7'-0" 64-#18 82-#18 0'-6" / Balance 40-#18 / 8'-6"/5'-6" (Taper 11:1) x 7'-6" Type I
BASE OF TAPERED COLUMN								
RECTANGULAR COLUMN SIZE & VERTICAL REINFORCEMENT		8'-3" 32-#14 / 5'-6"x7'-6" Type I					8'-3" 24-#18 / 5'-6"x7'-6" Type I	8'-3" 24-#18 / 5'-6"x7'-6" Type I
COLUMN BASE	HINGED DOWEL TYPE	HD-36 ¢4-#5					HD-36 ¢4-#5	HD-36 ¢4-#5
	FIXED BEND INTO FT'G	X					X	X
COLUMN PEDESTAL TYPE		X					X	X
FOOTING TYPE		F-2					F-2	F-2
GROUP LOADING		I					VII	I
SOIL PRESSURE (KIPS/FT²)		30.36					37.25	23.78
BOTTOM FOOTING ELEVATION		15.00					16.50	17.00

REFERENCE NOTES:
1. Refer to sht. #T-5, #T-6, # 30, #31, #32 for pier frame column details & sections.
2. Refer to sht. #T-3, #T-4, and #29 for foundation details.

ORIGINAL PLAN
NOTE BOOK
No.

SURVEY PLOTTED BY
DRAWN BY LMA
TRACED BY
DESIGNED BY D&O
QUANTITIES BY
CHECKED BY D&O ; EC
DATE NOV. '78

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	122	236

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

PART PIER FRAME COLUMN SCHEDULE

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16
SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 28 OF 77 SHEETS

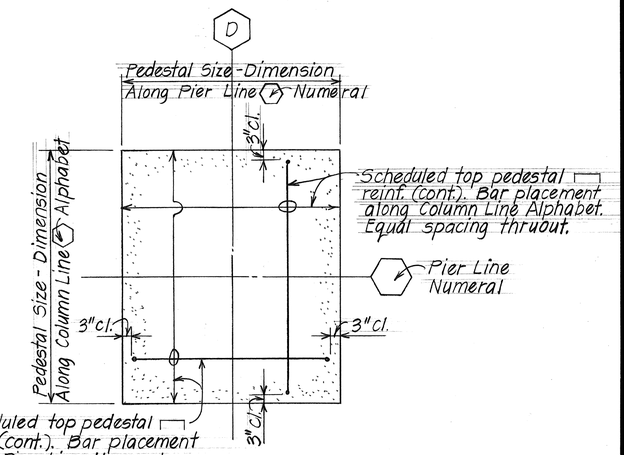
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	123	236

PIER FRAME COLUMN FOOTING SCHEDULE

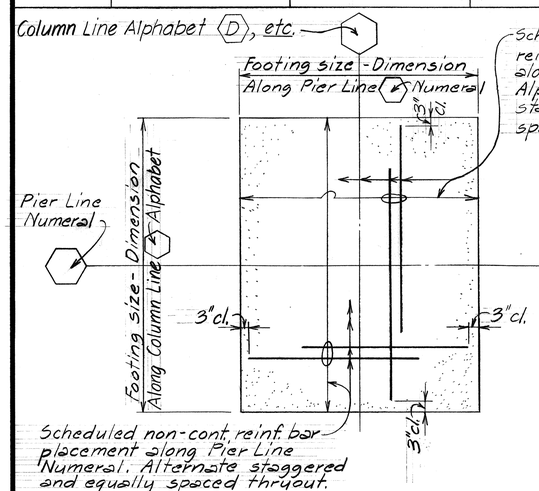
FOOTING TYPE	FOOTING SIZE		FOOTING DEPTH	*TOP FOOTING REINFORCEMENT		BOTTOM FOOTING REINFORCEMENT		REMARKS
	DIMENSION-ALONG ⬡ PIER LINE NUMERAL	DIMENSION-ALONG ⬡ COLUMN LINE ALPHABET		PLACEMENT-ALONG ⬡ PIER LINE NUMERAL	PLACEMENT-ALONG ⬡ COLUMN LINE ALPHABET	PLACEMENT-ALONG ⬡ PIER LINE NUMERAL	PLACEMENT-ALONG ⬡ COLUMN LINE ALPHABET	
F-2	14'-0"	14'-0"	5'-3"	#6 @ 12 Cont.	#6 @ 12 Cont.	58-#11 cont. (Bundled sets of two's) 29 sets	22-#11 Cont.	
F-3	15'-0"	15'-0"	5'-9"	Do.	Do.	64-#11 cont. (Bundled sets of two's) 32 sets	25-#11 Cont.	
F-4	16'-0"	16'-0"	5'-0"	Do.	Do.	58-#11 cont. (Bundled sets of two's) 29 sets	41-#11 Cont.	
F-5	16'-6"	16'-6"	Do.	Do.	Do.	64-#11 cont. (Bundled sets of two's) 32 sets	45-#11 Cont.	
F-6	14'-0"	15'-0"	4'-9"	Do.	Do.	43-#11 Cont.	19-#11 Cont.	
F-9	20'-0"	22'-0"	4'-0"	#6 @ 12 Cont.	#6 @ 12 Cont.	52-#11 x 16'-0" Non cont.	33-#11 x 18'-6" Non cont.	See Note #1.
F-11	24'-0"	34'-0"	5'-0"	#6 @ 12 Cont.	#8 @ 12 Cont. (Top layer)	66-#11 x 18'-0" Non cont.	67-#11 x 27'-6" Non cont.	See Note #1.
F-15	28'-0"	25'-0"	4'-6"	#7 @ 12 Cont. (Top layer)	#6 @ 12 Cont.	72-#11 x 22'-0" Non cont.	41-#11 x 21'-0" Non cont.	Do.
F-16	30'-0"	26'-0"	5'-0"	Do.	Do.	82-#11 x 23'-9" Non cont.	46-#11 x 21'-9" Non cont.	Do.

PIER FRAME COLUMN PEDESTAL SCHEDULE

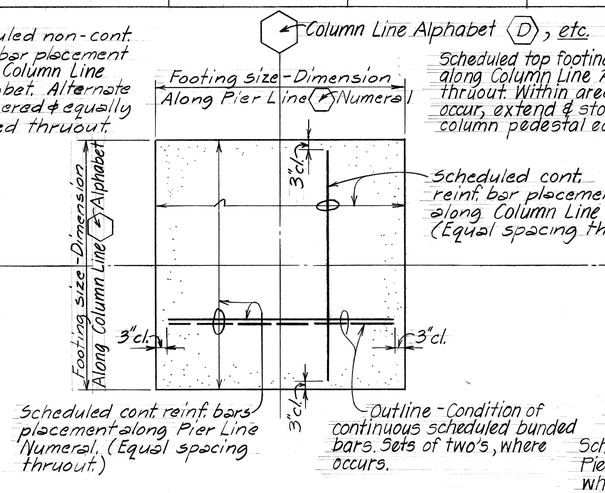
PEDESTAL TYPE	PEDESTAL SIZE		PEDESTAL DEPTH	TOP PEDESTAL REINFORCEMENT	
	DIMENSION-ALONG ⬡ PIER LINE NUMERAL	DIMENSION-ALONG ⬡ COLUMN LINE ALPHABET		PLACEMENT-ALONG ⬡ PIER LINE NUMERAL	PLACEMENT-ALONG ⬡ COLUMN LINE ALPHABET
CP-1	12'-0"	14'-0"	3'-0"	#10 @ 12	#7 @ 12
CP-2	12'-0"	14'-0"	2'-6"	#7 @ 12	#6 @ 12



SHOWING ARRANGEMENT OF COLUMN PEDESTAL TOP REINFORCEMENT

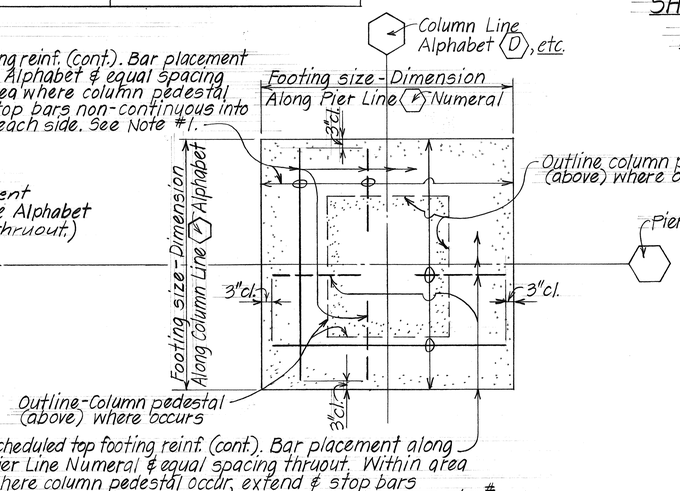


AT FOOTING TYPE F-9 THRU F-16 INCLUSIVE



AT FOOTING TYPE F-2 THRU F-6 INCLUSIVE

SHOWING ARRANGEMENT OF BOTTOM FOOTING REINFORCEMENT



SHOWING ARRANGEMENT OF TOP FOOTING REINFORCEMENT

NOTES:

1. * At footing where column pedestal occur, stop top footing reinf. and extend into pedestal each way. See typical diagram below & foundation details sht. # T-2.
2. For additional foundation details refer to sht. # T-2, #T-3, #T-4, #19.

ORIGINAL PLAN		
NOTE BOOK	SURVEY PLOTTED BY	L.M.
	DRAWN BY	"
	TRACED BY	DGO
	DESIGNED BY	L.M. & T.
	QUANTITIES BY	"
No.	CHECKED BY	DGO, FG
	DATE	Nov. '78

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIER FRAME COLUMN FOOTING, COLUMN PEDESTAL SCHEDULES AND DETAILS

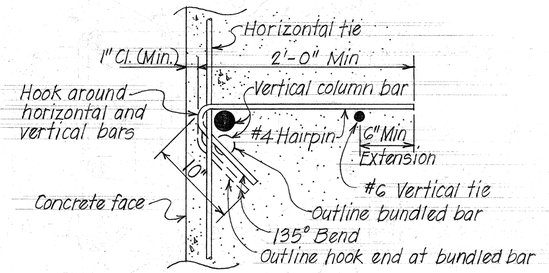
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

Scale: No Scale Date: NOV. 1978

SHEET No. 29 OF 77 SHEETS

PLANS - DIAGRAM SHOWING TYPICAL FOOTING DIMENSIONS & REINFORCEMENT LOCATIONS Not to Scale

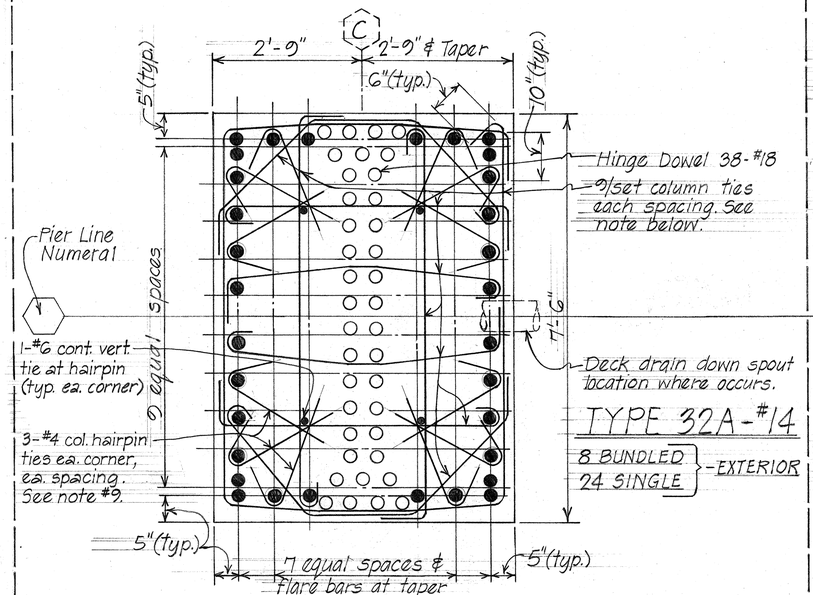
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	124	236



A 30|30 31,32

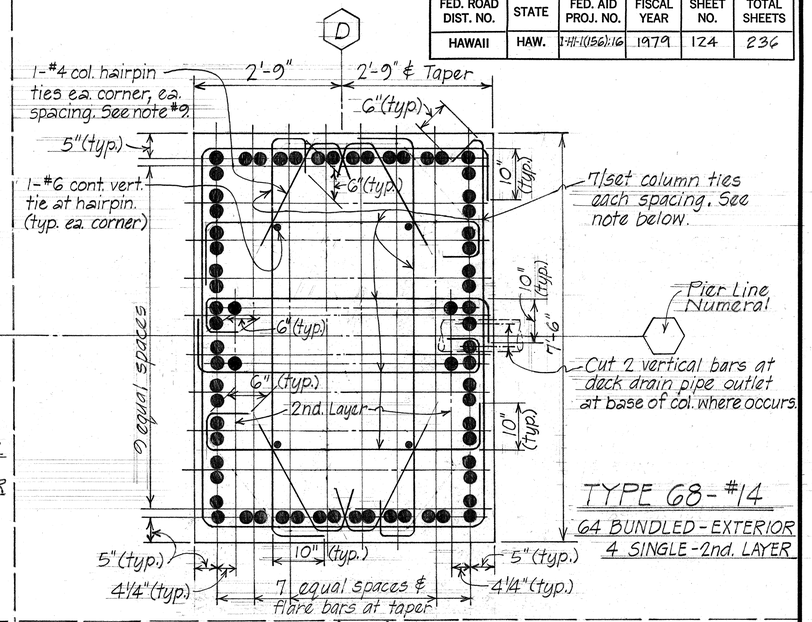
TYPICAL COLUMN HAIRPIN TIE DETAIL

Not to Scale



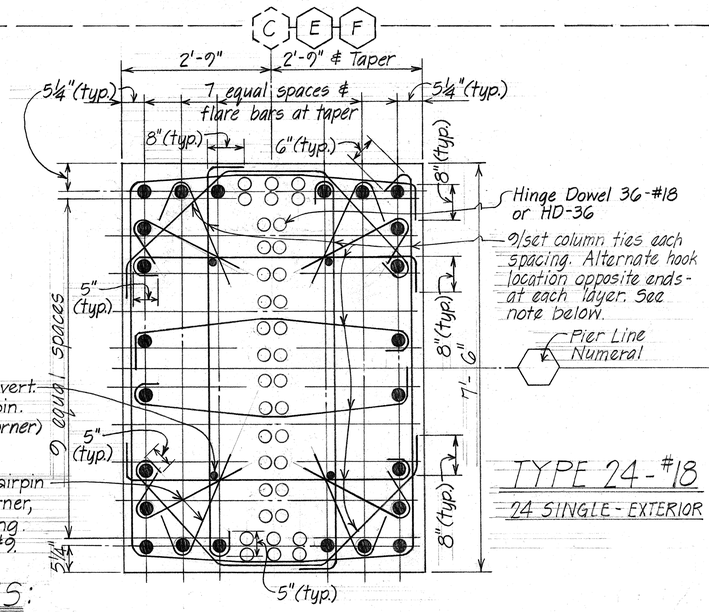
TYPE 32A-#14

8 BUNDLED
24 SINGLE } -EXTERIOR



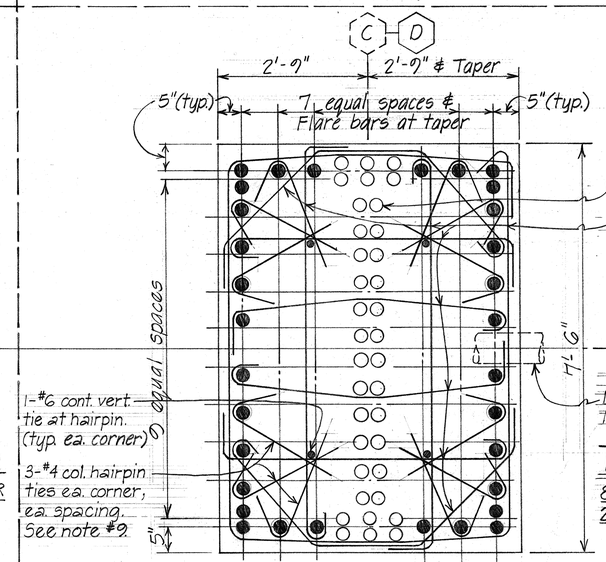
TYPE 68-#14

64 BUNDLED - EXTERIOR
4 SINGLE - 2nd. LAYER



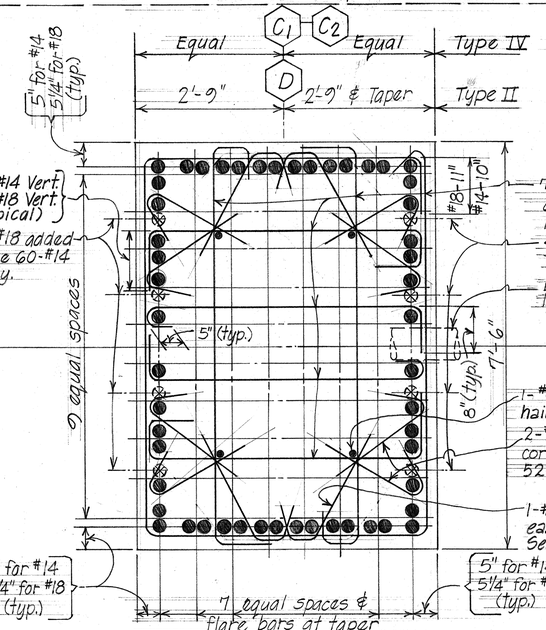
TYPE 24-#18

24 SINGLE - EXTERIOR



TYPE 32-#14

8 BUNDLED
24 SINGLE } EXTERIOR



TYPE 52A-#14
TYPE 52A-#18

40 BUNDLED
12 SINGLE

TYPE 60-#14

56 BUNDLED
4 SINGLE

NOTES:

1. Legend:
   - ●● - Main Column Bars - Bundled
   - ● - Main Column Bars - Single
   - ○ - Hinged Dowels
   - ⊗ - Added Main Column Bars
2. Bundle column bars in groups of two's.
3. All #18 and #14 column bars - Grade 60.
4. All column ties & hairpins to be #4 - Grade 60. Alternate column ties hook locations on opposite ends at each layer. Column ties shall be located in same plane and in close contact with vertical column ties.
5. Refer to sht. #T-6, #T-7 for typical locations & spacing of flare column bars at tapered columns.
6. At column lines (C) & (D) with 8" deck drain downspouts, vertical column bars adjacent to pipe at outlet shall have a minimum of 8 5/8" clear space between bars.
7. Refer to General Notes Sht. #T-1 for exact locations of bars.
8. For pipe invert & locations - see Foundation Plan & Typical Details.
9. For #4 column hairpin ties see Detail (A 30|30) & column detail Sht. #T-6 & T-7 for spacing.
10. At each column type section above, end bend or hook dimensions of the various corresponding column tie types are similar as detailed for above Column Section Type 24-#18 - single bars, and Type 68-#14 - bundled bars, except as otherwise noted.
11. At Column Types II, IV extend all #6 continuous ties at hairpins 2'-0" into both column pedestal or footing & pier frame cap above. At Column Type I extend all #6 cont. vertical ties at hairpin 2'-0" into pier frame cap above.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE Nov. '78
	DRAWN BY NY	"
	TRACED BY	"
NOTE BOOK	DESIGNED BY DCO	"
No.	QUANTITIES BY GT TKM LKM	"
	CHECKED BY Dco TKM	"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIER FRAME COLUMN SECTIONS
VARIOUS COLUMN TYPES I, II, IV

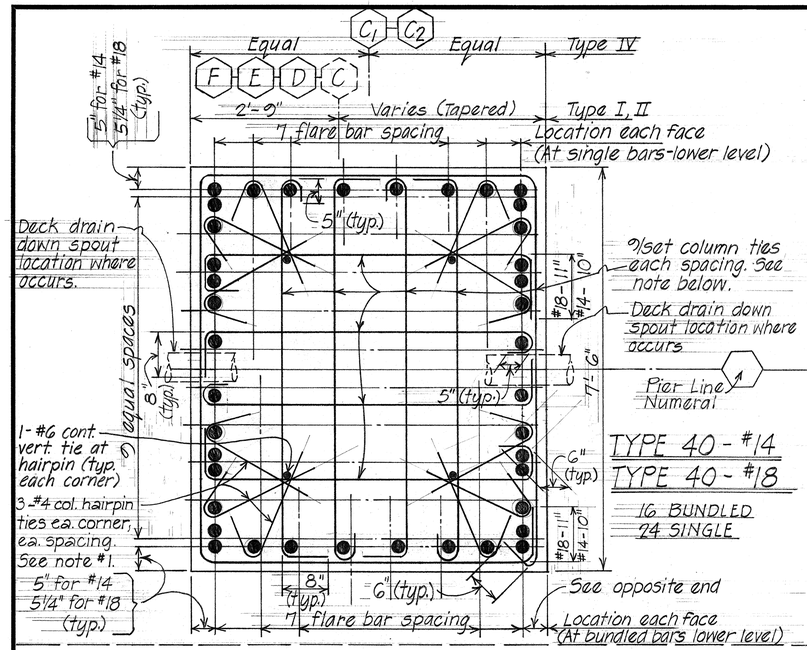
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: 3/4"=1'-0" DATE: NOV. 1978

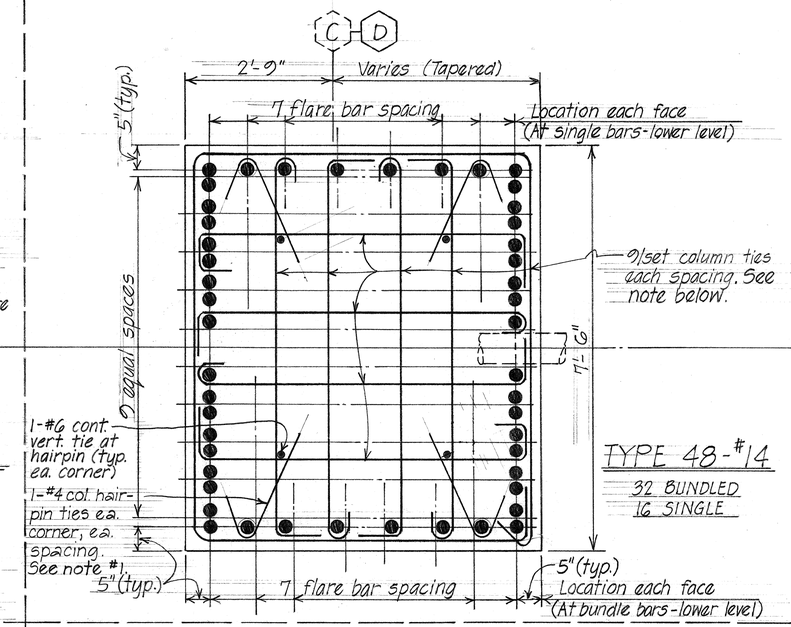
SHEET No. 30 OF 77 SHEETS

124

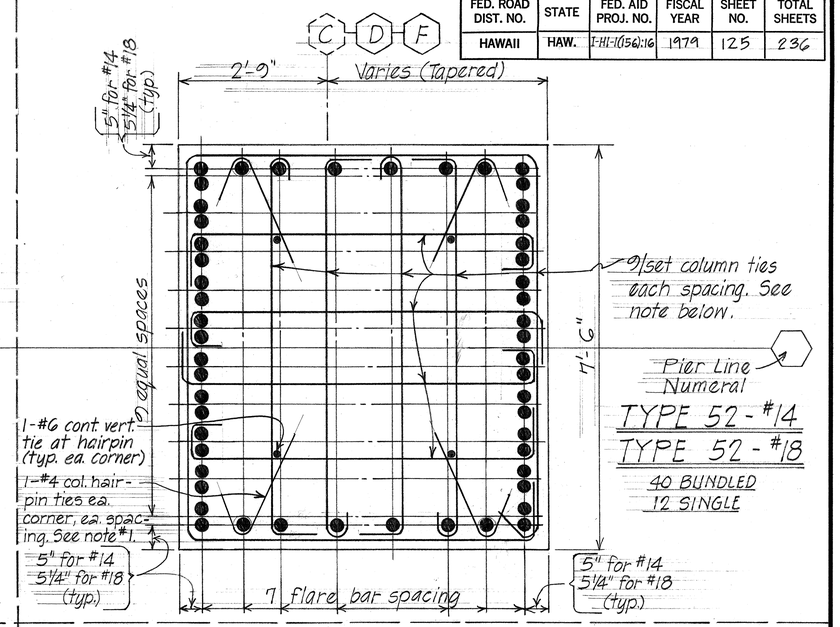
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	125	236



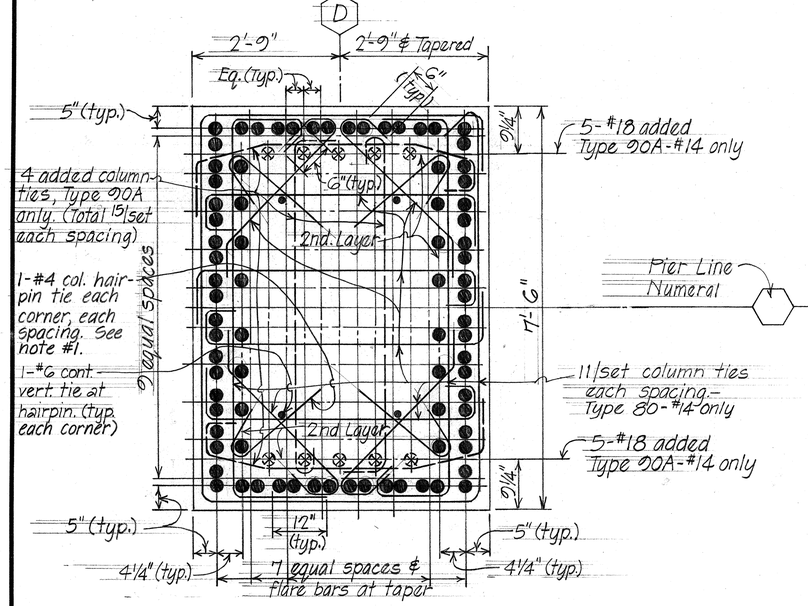
TYPE 40 - #14
TYPE 40 - #18
16 BUNDLED
24 SINGLE



TYPE 48 - #14
32 BUNDLED
16 SINGLE

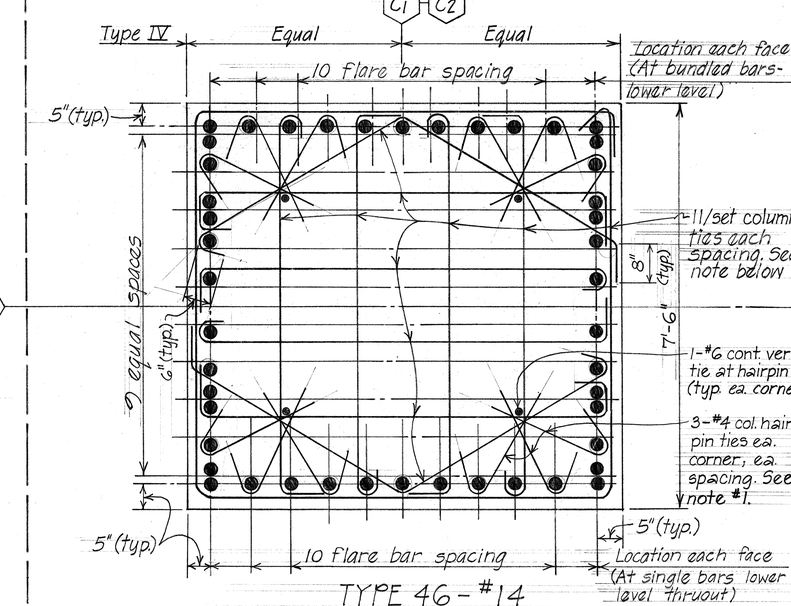


TYPE 52 - #14
TYPE 52 - #18
40 BUNDLED
12 SINGLE

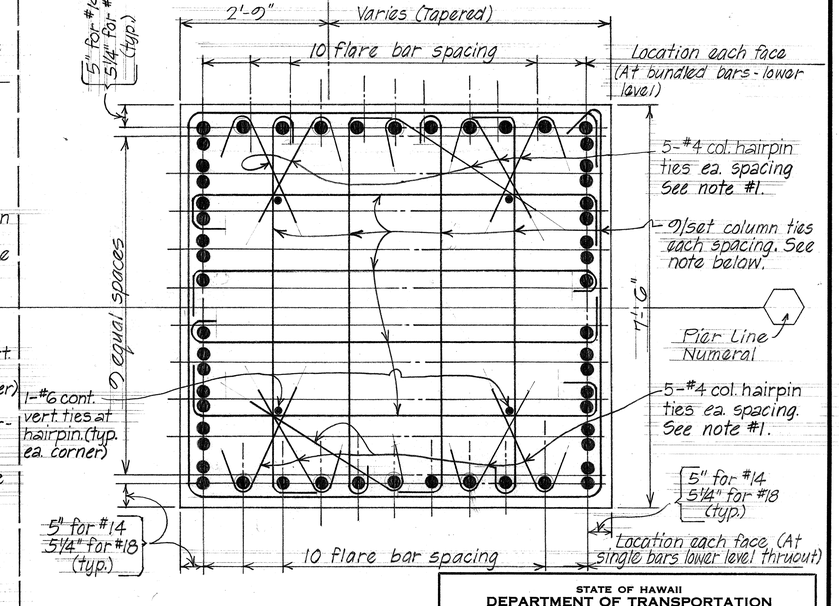


TYPE 80 - #14
64 BUNDLED - EXTERIOR
16 SINGLE - 2nd. LAYER

TYPE 90A - #14
64 BUNDLED - EXTERIOR
26 SINGLE - 2nd LAYER



TYPE 46 - #14
16 - BUNDLED
30 - SINGLE



TYPE 54 - #14
TYPE 54 - #18
32 BUNDLED
22 SINGLE

NOTES:

1. For #4 column hairpin ties see detail (A 31|30) & column detail sht. #T-6 & #T-7 for spacing.
2. Except as otherwise noted, for additional notes & legend, refer to Notes, Sht. #30.
3. At each column type section above, end bend or hook dimensions of the various corresponding column tie types at single or bundled bars are similar as detailed for Column Section Type 40-#14, #18 above, except as otherwise noted.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE Nov. '78
	DRAWN BY NY	" "
	TRACED BY	" "
NOTE BOOK	DESIGNED BY DCO LM	" "
No.	QUANTITIES BY GTC LM	TKM "
	CHECKED BY DCO, EC	" "

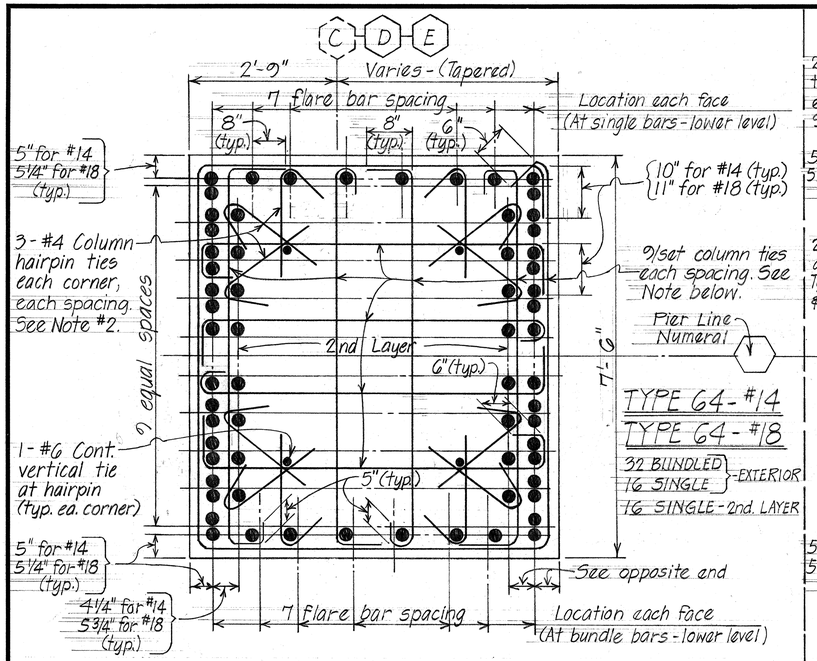
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

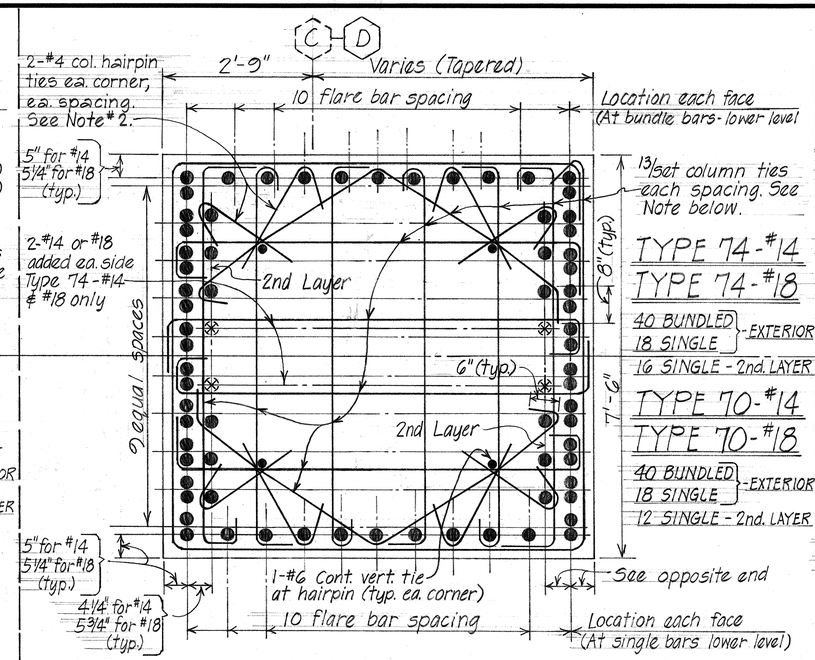
PIER FRAME COLUMN SECTIONS VARIOUS COLUMN TYPES I, II, IV

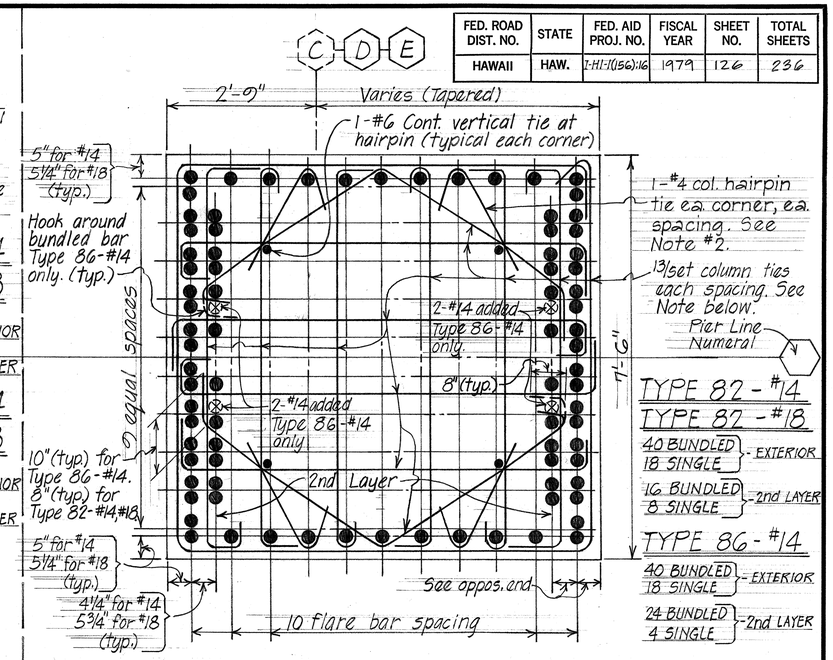
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16
SCALE: 3/4" = 1'-0" DATE: NOV. 1978

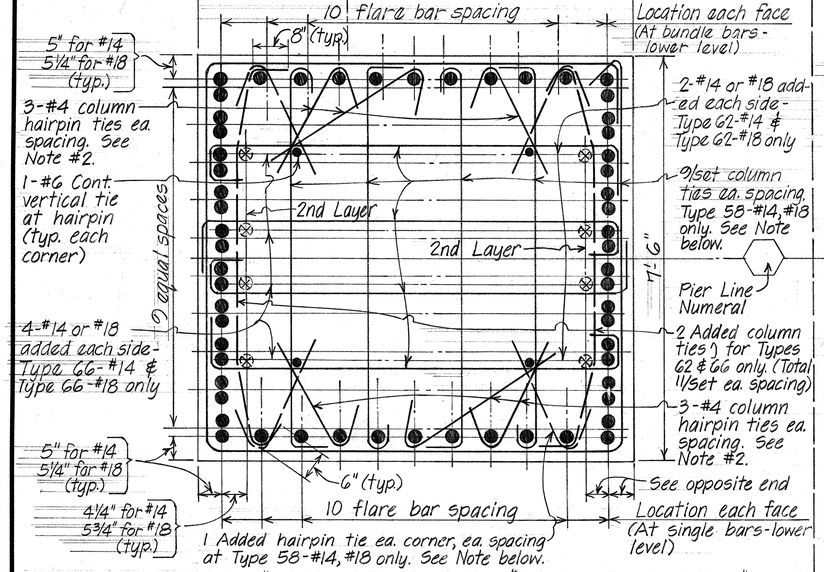
SHEET No. 31 OF 77 SHEETS

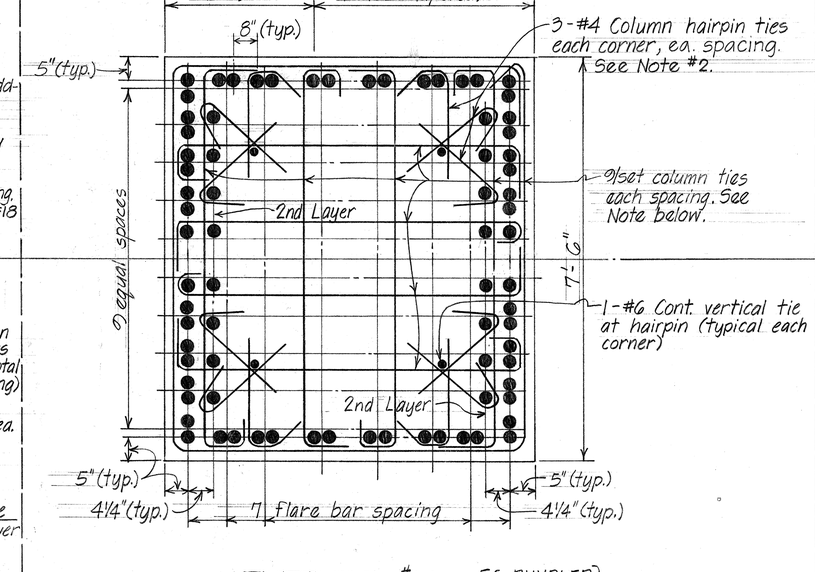
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	126	236

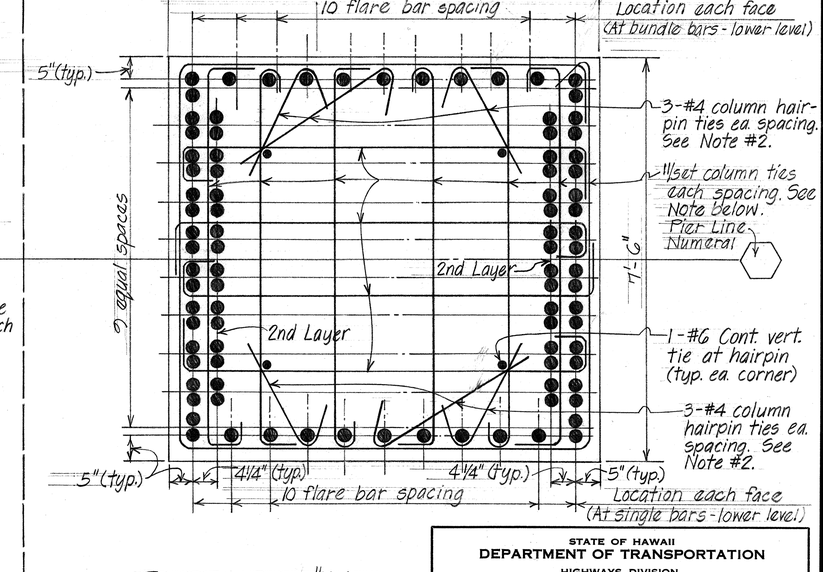












TYPE 58 - #14
TYPE 58 - #18
40 BUNDLED 18 SINGLE - EXTERIOR

TYPE 62 - #14
TYPE 62 - #18
40 BUNDLED 18 SINGLE - EXTERIOR
4 SINGLE - 2nd. LAYER

TYPE 66 - #14
TYPE 66 - #18
40 BUNDLED 18 SINGLE - EXTERIOR
8 SINGLE - 2nd. LAYER

TYPE 76 - #14
56 BUNDLED 4 SINGLE - EXTERIOR
16 SINGLE - 2nd. LAYER

TYPE 90 - #14
40 BUNDLED 18 SINGLE - EXTERIOR
32 BUNDLED - 2nd. LAYER

NOTE:
1. Except as otherwise noted, for additional notes & legend refer to Notes, sht. #30.
2. For #4 column hairpin ties, see Detail A 30/30 & column detail Sht. #T-6 for spacing.
3. At each column type section above, end bend, or hook dimensions of the various corresponding column tie types at single or bundled vertical bars are same as detailed for Column Section Type 64 - #14, #18 and Type 74 - #14, #18, except as otherwise noted.

ORIGINAL PLAN	SURVEY PLOTTED BY	NY	DATE	NOV. '78
	DRAWN BY	"	"	"
	TRACED BY	"	"	"
NOTE BOOK	DESIGNED BY	D.C.O.	"	"
No.	QUANTITIES BY	GT LNT TKM	"	"
	CHECKED BY	DCO EG	"	"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIER FRAME COLUMN SECTIONS VARIOUS COLUMN TYPES I, II

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16
SCALE: 3/4" = 1'-0" DATE: NOV. 1978

SHEET No. 32 OF 77 SHEETS

PIER CAP DIMENSIONS AND ELEVATION SCHEDULE

DESIGNATIONS / PIER LINE LOCATION	CAP CLEAR SPAN CAMBER AT ℄ SPAN L	CAP CLEAR SPAN CAMBER AT ℄ SPAN L1	PIER FRAME TYPE	DIMENSIONS (IN FEET) L	L1	b	c	ELEVATIONS TOP PIER CAP (d)	(e)	(f)	(g)	(p)	(q)	W.P. "A" AT SEAT LINE (1)	SEAT LINE (2)	TOP PIER SHELF AT PIER LINE (2) NUMERAL (j)	(k)
(2) IB	1/8"	3/8"	PF-26	66.00'	90.00'	20.69'	102.67'	66.49	61.57	62.16	61.35	67.09	68.83			60.49	55.55
(3) IB	3/8"	1/2"	PF-27	38.00'	90.00'	20.88'	100.77'	66.14	61.31	61.90	61.08	66.73	67.22			60.12	55.29
(4) IB	3/4"		PF-28	97.00'		21.06'	98.60'	65.78	61.05	61.64	60.81			63.18	63.15	59.74	55.05
(5) IB	3/4"		PF-28	97.00'		21.23'	96.16'	65.40	60.79	61.38	60.54			62.80	62.77	59.36	54.79
(6) IB	5/8"		PF-28	93.00'		21.38'	93.45'	65.01	60.53	61.12	60.27			62.41	62.38	58.97	54.53
(7) IB	5/8"		PF-28	92.00'		21.41'	90.61'	64.62	60.27	60.86	60.01			62.01	61.98	58.58	54.27
(8) IB	5/8"		PF-28	91.00'		21.63'	88.08'	64.23	60.01	60.60	59.74			61.63	61.60	58.20	54.01
(9) IB	1/2"		PF-28	88.00'		21.73'	85.92'	63.87	59.75	60.34	59.48			61.27	61.24	57.83	53.75
(10) IB	5/8"		PF-28	88.00'		21.81'	84.11'	63.53	59.50	60.09	59.22			60.93	60.90	57.50	53.50
(11) IB	1/2"		PF-29	86.00'		21.88'	82.66	63.23	59.26	59.85	58.98			60.62	60.58	57.18	53.21
(12) IB	1/2"		PF-30	Do.		21.93'	82.44'	62.97	59.01	59.60	58.73			60.34	60.34	56.93	52.85
(13) IB	1/2"		PF-30	Do.		21.96'	82.44'	62.43	58.84	59.43	58.63			59.87	59.81	56.41	52.85
(14) IB	1/2"		PF-30A	Do.		21.97'	82.44'	61.62	58.73	59.32	58.68					55.63	52.75
(15) IB	1/2"		PF-31	Do.		21.58'	82.83'	60.81	58.62	59.21	58.74			58.34	58.28	54.84	52.66
(16) IB	1/2"		PF-32	Do.		Do.	Do.	60.02	58.53	59.13	58.81			57.56	57.50	54.06	52.60
(17) IB	1/2"		PF-32	Do.		Do.	Do.	59.24	58.46	59.06	58.89			56.79	56.74	53.29	52.54
(18) IB	5/8"		PF-32	Do.		Do.	Do.	58.48	58.40	59.00	58.98			56.03	55.98	52.53	52.49
(19) IB	1/2"		PF-33	Do.		Do.	Do.	57.72	58.35	58.95	59.08			55.32	55.26	51.77	52.44
(20) IB	5/8"		PF-33	Do.		Do.	Do.	57.11	58.29	58.89	59.14			54.69	54.62	51.14	52.34
(21) IB	1/2"		PF-33	Do.		Do.	Do.	56.93	58.17	58.76	59.03			54.44	54.46	50.96	52.22
(22) IB	1/2"		PF-33	Do.		Do.	Do.	56.80	58.04	58.63	58.90			54.34	54.33	50.85	52.11
(23) IB	1/2"		PF-33	Do.		Do.	Do.	56.67	57.91	58.50	58.77			54.21	54.20	50.72	51.98
(24) IB	1/2"		PF-33	Do.		Do.	Do.	56.54	57.78	58.37	58.64			54.08	54.07	50.59	51.85
(25) IB	1/2"		PF-33	Do.		Do.	Do.	56.41	57.65	58.25	58.51			53.96	53.94	50.46	51.72
(26) IB	1/2"		PF-33	Do.		Do.	Do.	56.28	57.52	58.12	58.38			53.83	53.78	50.30	51.56
(27) IB	5/8"		PF-33	Do.		Do.	Do.	56.14	57.38	57.97	58.24			53.65	53.63	50.14	51.40

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	127	236

ORIGINAL PLAN	
SURVEY PLOTTED BY	DATE NOV. 1978
DRAWN BY	LMA
TRACED BY	
DESIGNED BY	DEO
NOTE BOOK	QUANTITIES BY
No.	CHECKED BY DEO. EC

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

PIER FRAMES PF-26 THRU PF-33 INCLUSIVE

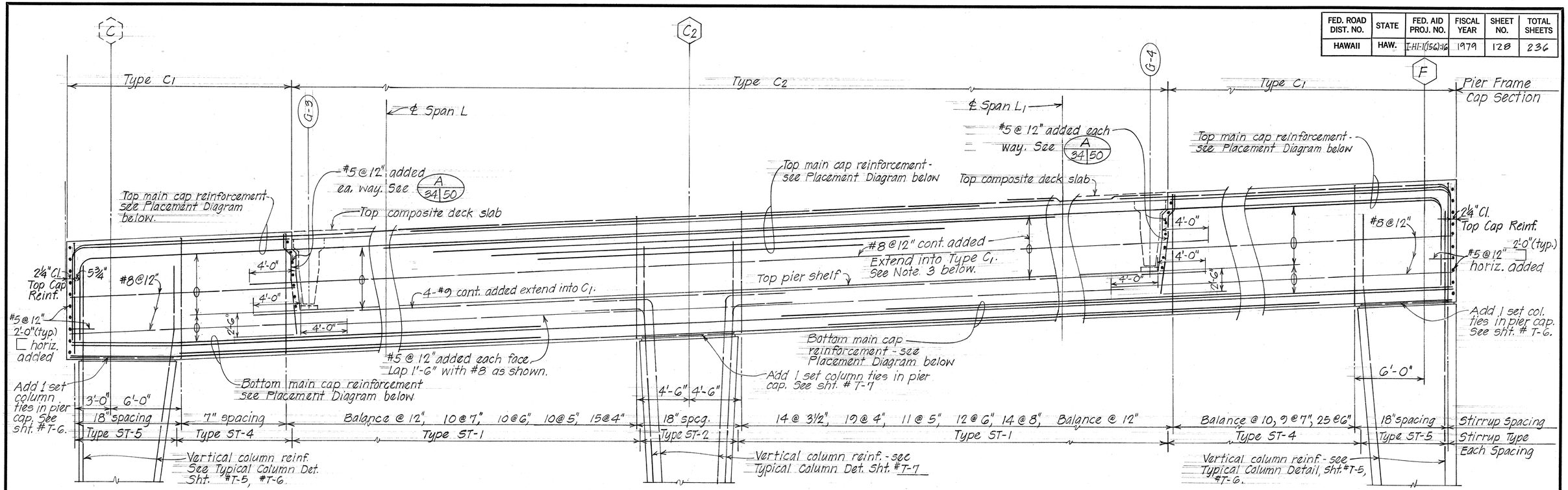
CAP DIMENSIONS AND ELEVATIONS SCHEDULE

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

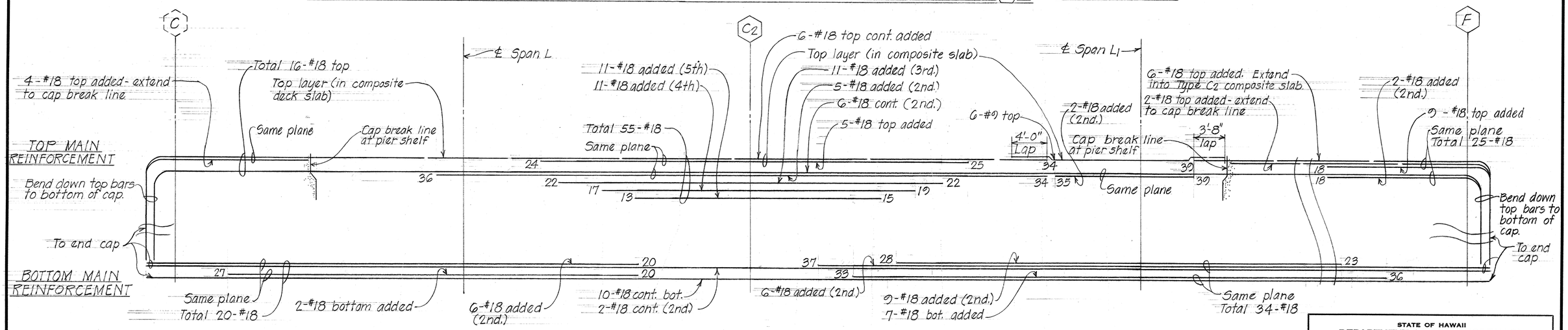
SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 33 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	128	236



ELEVATION - PIER FRAME PF-26 CAP REINFORCEMENT PIER LINE (2) Scale: ¼" = 1'-0"



PLACEMENT DIAGRAM - PIER FRAME PF-26 CAP MAIN REINFORCEMENT

Not to Scale

NOTES:

4. Numbers at ends of bars indicate distance in feet. Top bars measured from column line alphabet ℄ bottom bars from ℄ span.
5. Cont. added are continuous bars from one or more spans extended partially into the adjacent span at ends.

NOTES:

1. Refer to Sht #42 for various pier frame cap section types & details.
2. Refer to Sht #22 for additional dimensions & details.
3. #8 @12 cont. added, 2'-6" lap with #18 main cap reinf. where occurs.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE NOV. '78
	DRAWN BY KY	" " " "
NOTE BOOK	TRACED BY DGO	" " " "
	DESIGNED BY DGO	QUANTITIES BY TKM
No.	CHECKED BY DGO	FC

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

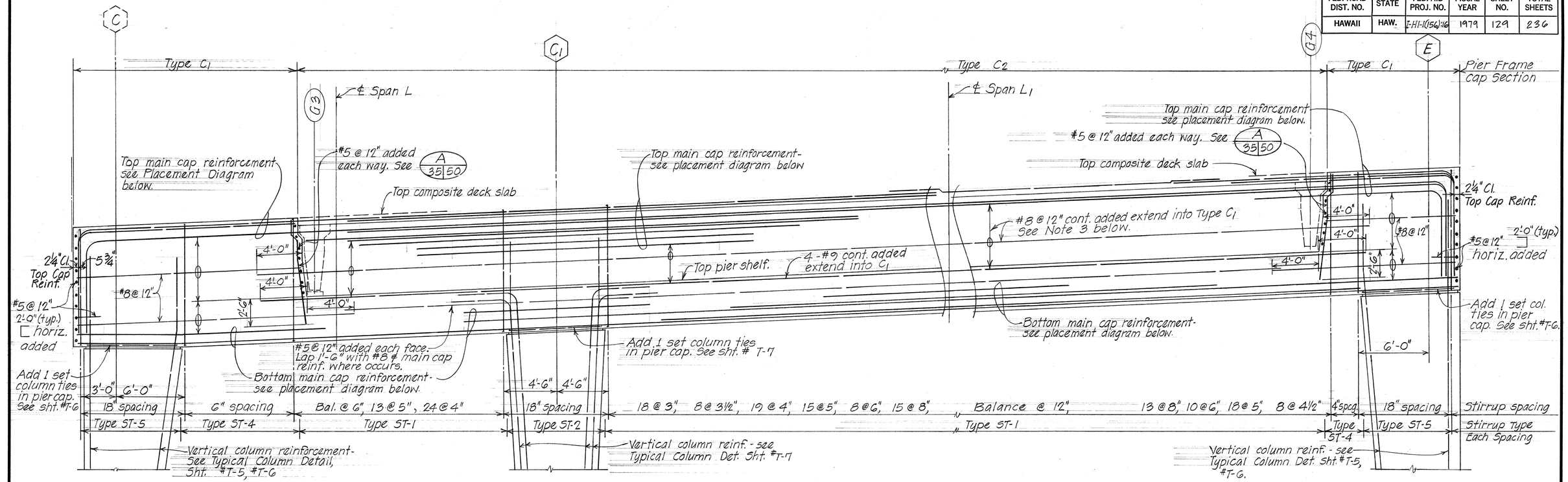
PIER FRAME PF-26
PIER LINE (2) IB
REINFORCEMENT & DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: AS NOTED DATE: NOV. 1978

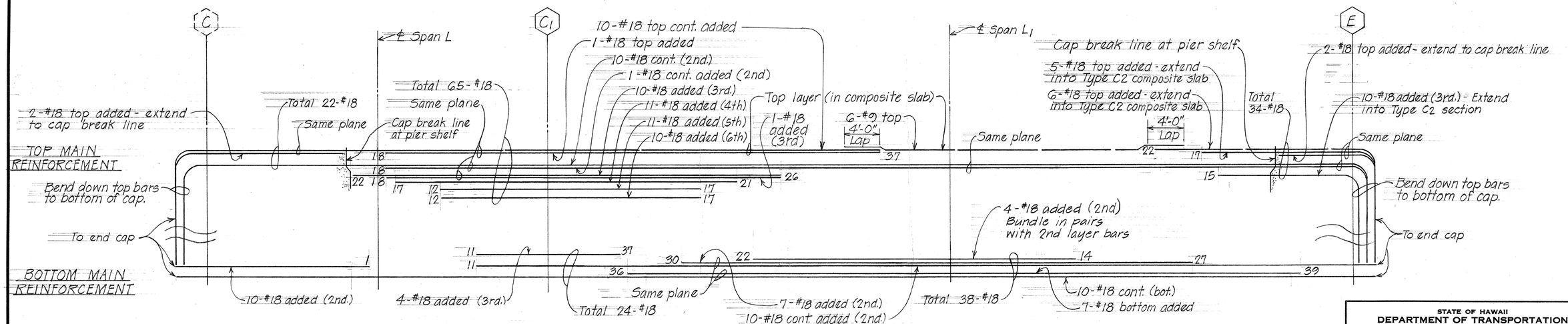
SHEET No. 34 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156)16	1979	129	236



ELEVATION - PIER FRAME PF-27 CAP REINFORCEMENT - PIER LINE ⟨3⟩

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



PLACEMENT DIAGRAM - PIER FRAME PF-27 CAP MAIN REINFORCEMENT

Not to scale

NOTES:

4. Numbers at ends of bars indicate distance in feet. Top bars measured from column line alphabet & bottom bars from ℄ span.
5. Cont. added are continuous bars from one or more spans extended partially into the adjacent span at ends.

NOTES:

1. Refer to Sht. # 42 for various pier frame cap section types & details.
2. Refer to Sht. # 22 for additional dimensions & details.
3. #8 @ 12" cont. added, 2'-6" lap with #18 main cap reinf. where occurs.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY N.Y.	Nov. '78
NOTE BOOK	TRACED BY	
	DESIGNED BY	
No.	QUANTITIES BY	
	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

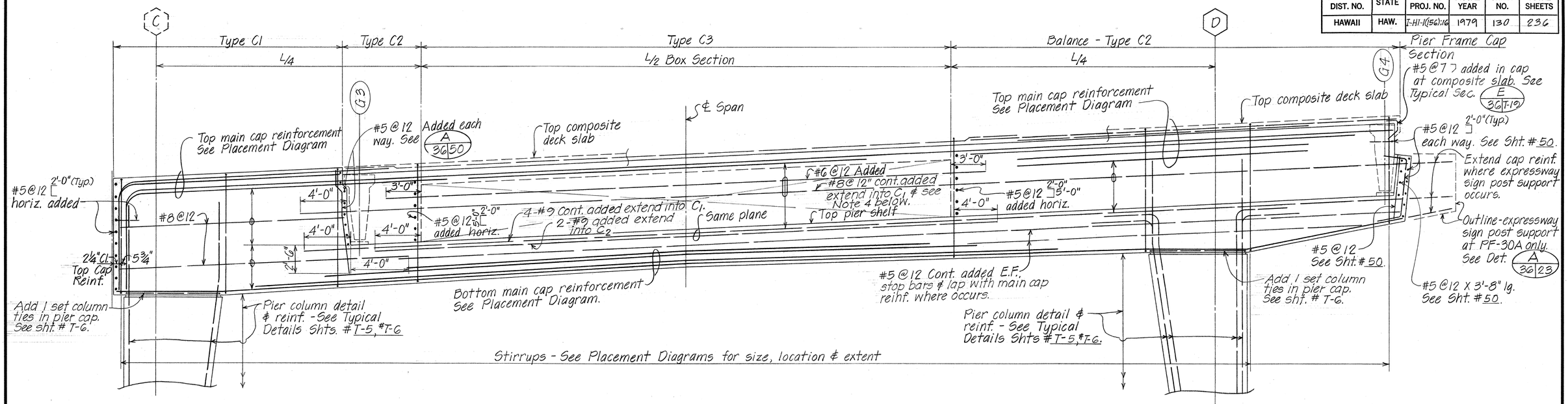
PIER FRAME PF-27
PIER LINE ⟨3⟩ 1B
REINFORCEMENT & DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: AS NOTED DATE: NOV. 1978

SHEET No. 35 OF 77 SHEETS

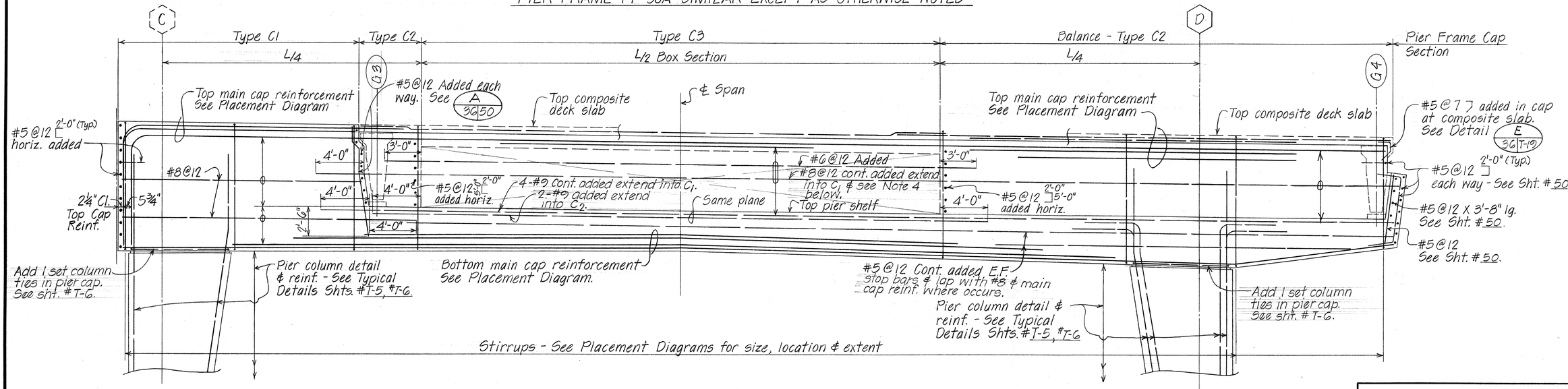
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	130	236



ELEVATION - TYPICAL IB PIER FRAME PF-28, PF-29, PF-30, PF-31, PF-32 - CAP REINFORCEMENT

Scale: ¼" = 1'-0"

PIER FRAME PF-30A SIMILAR EXCEPT AS OTHERWISE NOTED



ELEVATION - TYPICAL IB PIER FRAME PF-33 - CAP REINFORCEMENT

Scale: ¼" = 1'-0"

NOTES

1. Refer to corresponding Placement Diagrams, Sht. #43, #44, #45, #46, #47. for locations & limits of Pier Frame Cap main reinforcement.
2. Refer to Sht. #42 for various Pier Frame Cap Section types & details.
3. Refer to Sht. #23, # 24 for additional dimensions & details.
4. #8 @12" cont. added, 2'-6" lap with #18 main cap reinf. where occurs.
5. Cont. added are continuous bars from one or more spans extended partially into the adjacent span at ends.

ORIGINAL PLAN		SURVEY PLOTTED BY	LY	DATE	NOV '78
		DRAWN BY	"	"	"
NOTE BOOK		TRACED BY	DCO	"	"
		DESIGNED BY	"	"	"
No.		QUANTITIES BY	GM - TKM	"	"
		CHECKED BY	DCO, FC	"	"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

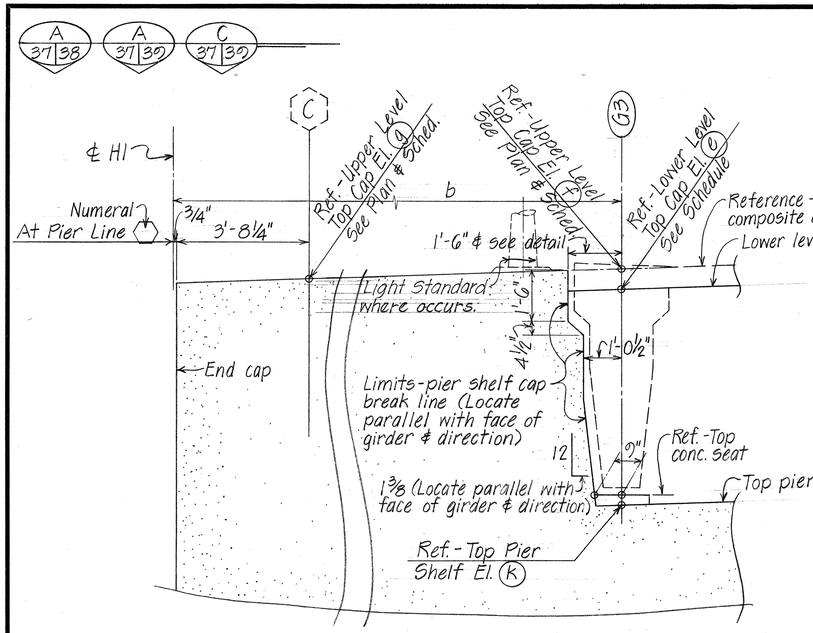
TYPICAL PIER FRAMES
PF-28 THRU PF-33 INCLUSIVE
REINFORCEMENT & DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: AS NOTED. DATE: NOV. 1978

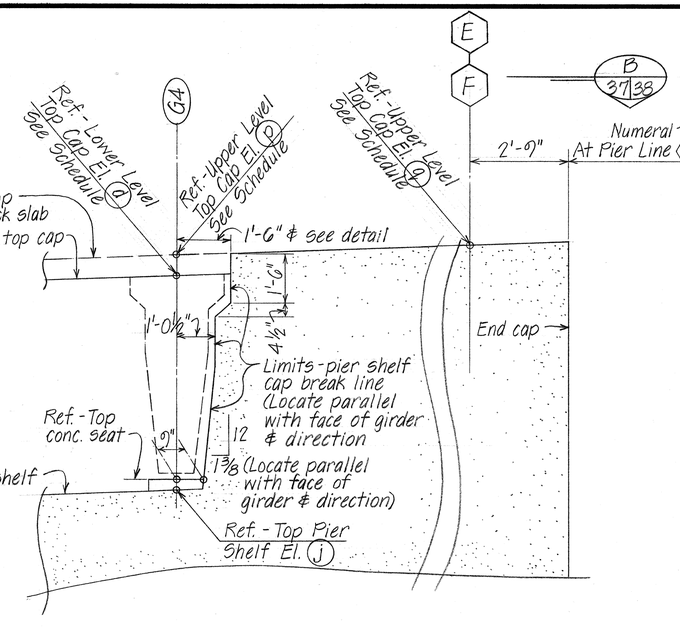
SHEET No. 36 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	131	236

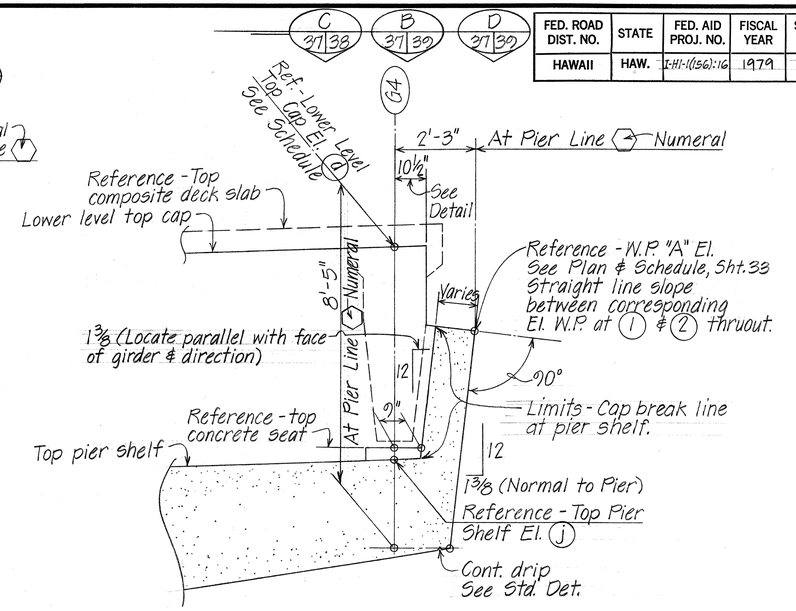


DETAIL A 23|37 Scale: 1/2" = 1'-0"

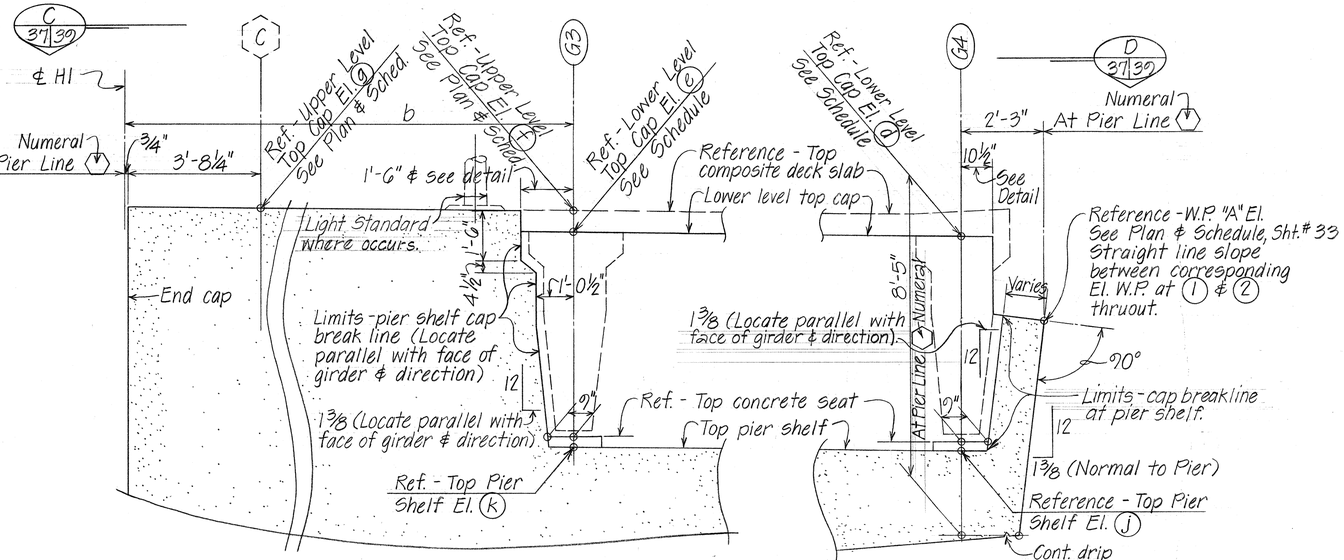
22



DETAIL B 22|37 Scale: 1/2" = 1'-0"



DETAIL C 23|37 Scale: 1/2" = 1'-0"



DETAIL D 24|37 Scale: 1/2" = 1'-0"

DETAIL E 24|37 Scale: 1/2" = 1'-0"

ORIGINAL PLAN		
SURVEY PLOTTED BY	LN	DATE NOV. '78
DRAWN BY		" " " "
TRACED BY		" " " "
DESIGNED BY	DLD	" " " "
NOTE BOOK		
QUANTITIES BY		
No.	CHECKED BY	DLD, EC

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL PIER FRAMES

PF-26 THRU PF-33 INCLUSIVE-DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I PROJ. NO. I-HI-1(156):16

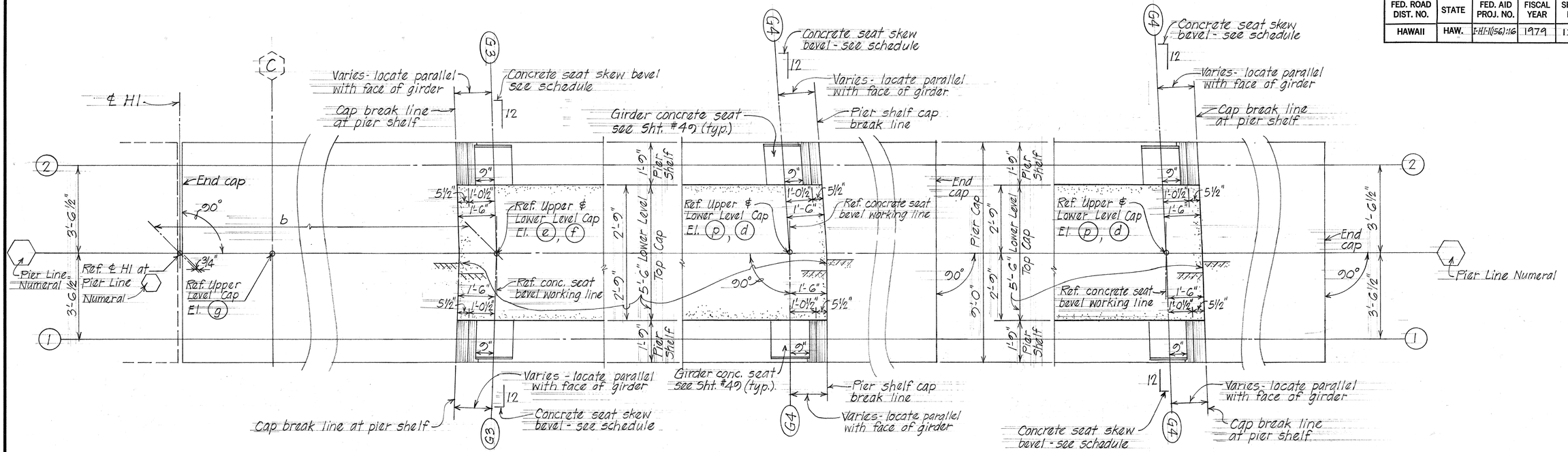
SCALE: AS NOTED DATE: NOV. 1978

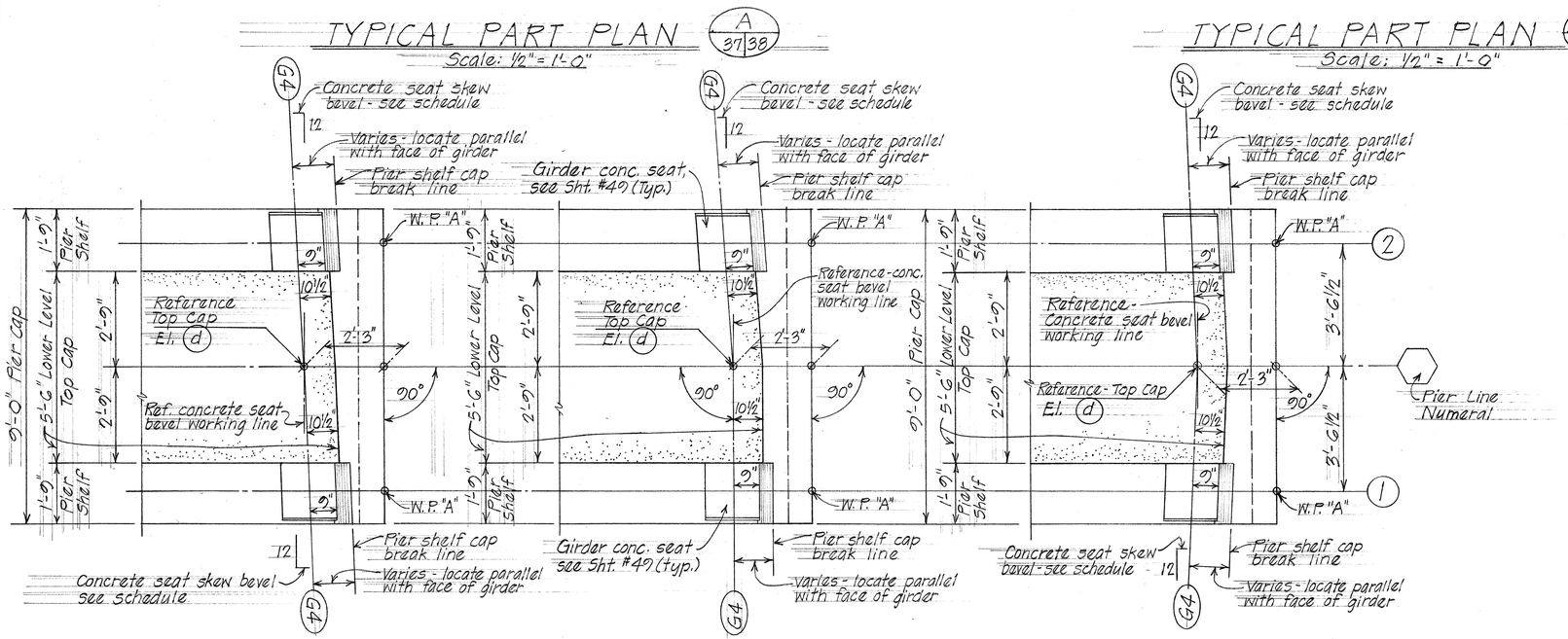
SHEET No. 37 OF 77 SHEETS

131

K+E ® TRACING PAPER

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	132	236





ORIGINAL PLAN	SURVEY PLOTTED BY	DATE Nov. '78
	DRAWN BY NT	" "
	TRACED BY	" "
NOTE BOOK	DESIGNED BY DEO	" "
	QUANTITIES BY DEO, FE	" "
No.	CHECKED BY	" "

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

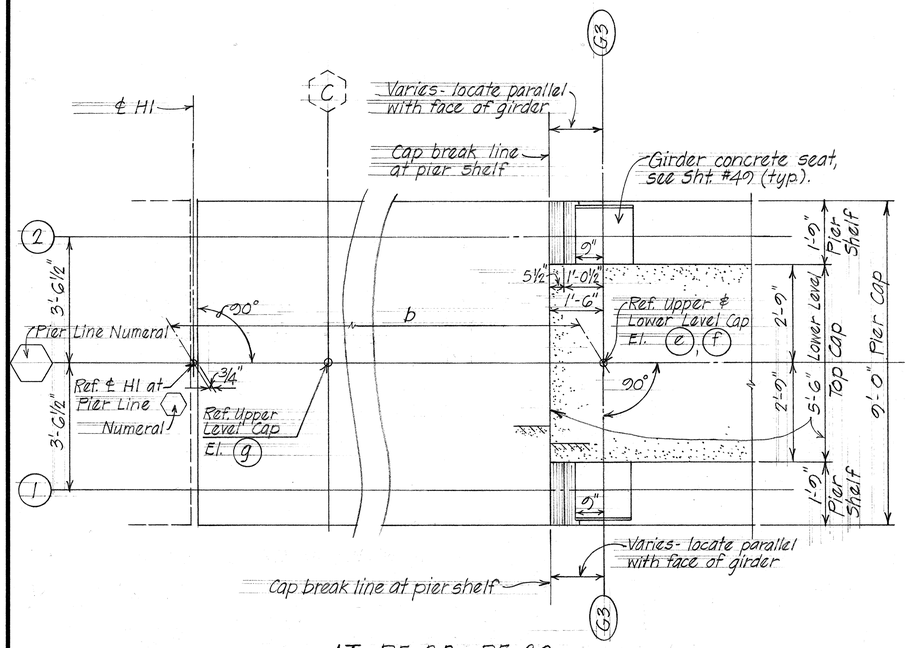
TYPICAL PIER FRAMES
PF-26 THRU PF-30 INCLUSIVE - DETAILS
PIER LINES (2) THRU (13) IB INCL.

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: ½" = 1'-0" DATE: NOV. 1978

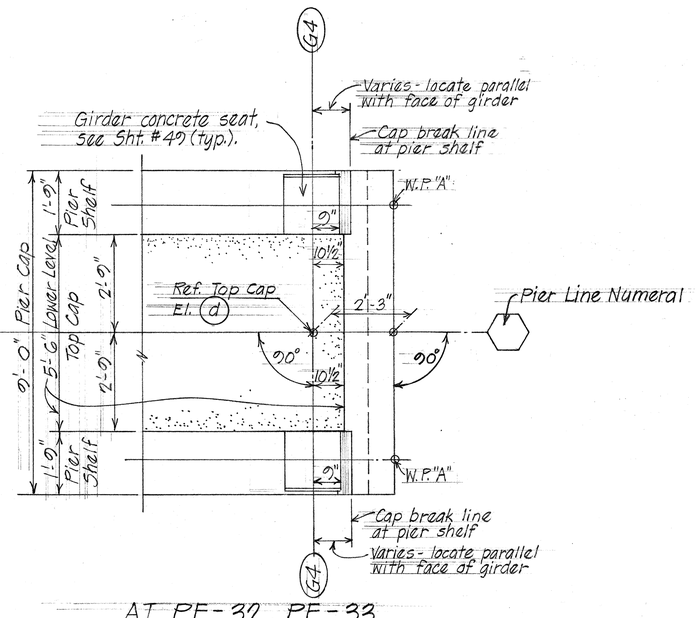
SHEET No. 38 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-HI-1(156)16	1979	133	236



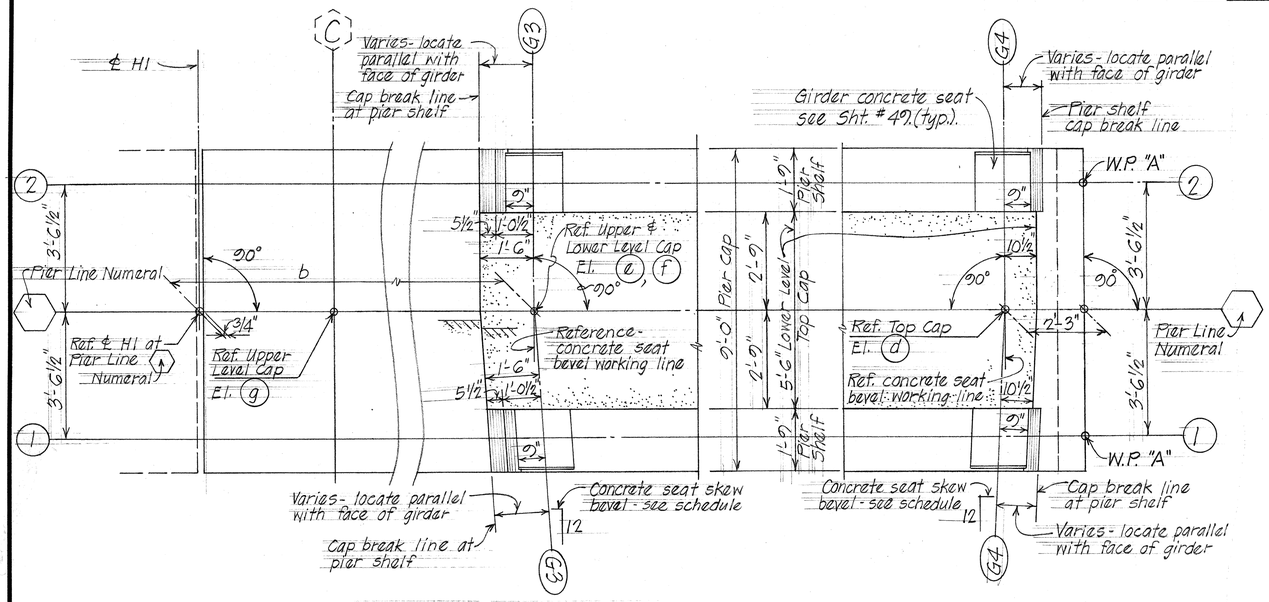
AT PF-32, PF-33

TYPICAL PART PLAN (C 37|39) Scale: ½" = 1'-0"



AT PF-32, PF-33

TYPICAL PART PLAN (D 37|39) Scale: ½" = 1'-0"



AT PF-31

TYPICAL PART PLAN (A 37|39) Scale: ½" = 1'-0"

AT PF-31

TYPICAL PART PLAN (B 37|39) Scale: ½" = 1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE Nov. '78
	DRAWN BY NJ	"
	TRACED BY DSO	"
NOTE BOOK	DESIGNED BY	"
No.	QUANTITIES BY	"
	CHECKED BY DCO, EC	"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

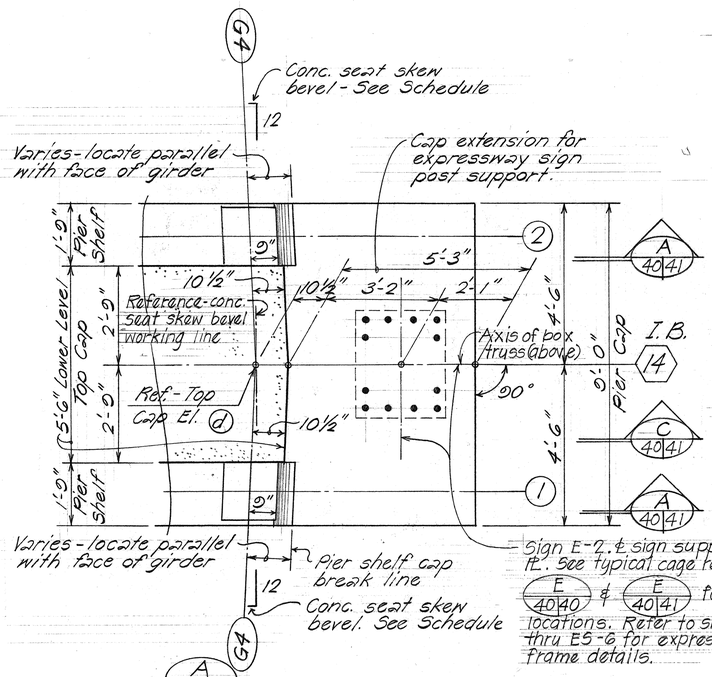
TYPICAL PIER FRAMES
PF-31 THRU PF-33 INCLUSIVE
DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16
SCALE: ½" = 1'-0" DATE: NOV. 1978

SHEET No. 39 OF 77 SHEETS

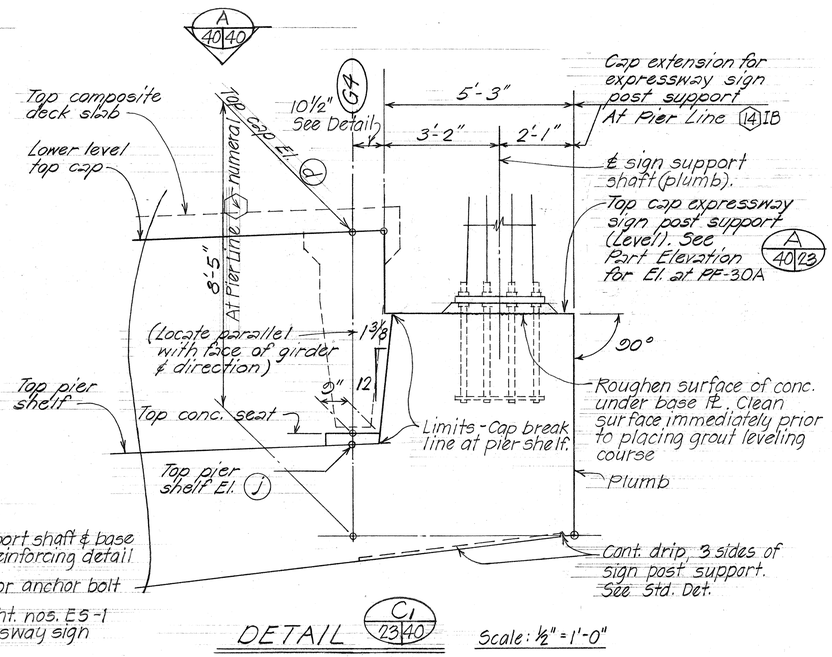
133

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	134	236



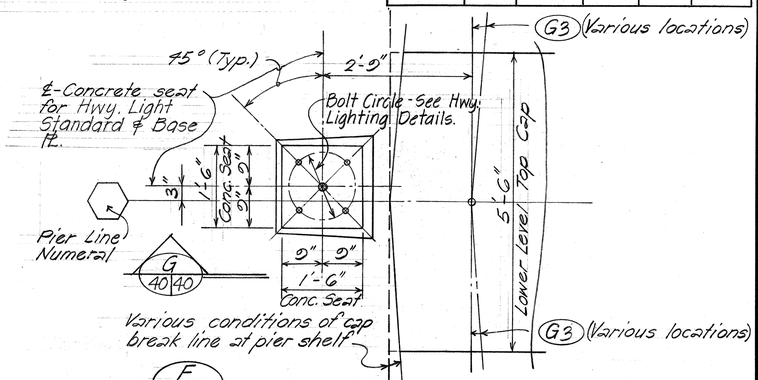
PLAN A 40|40 - I.B. PIER FRAME PF-30A

Scale: ½" = 1'-0"

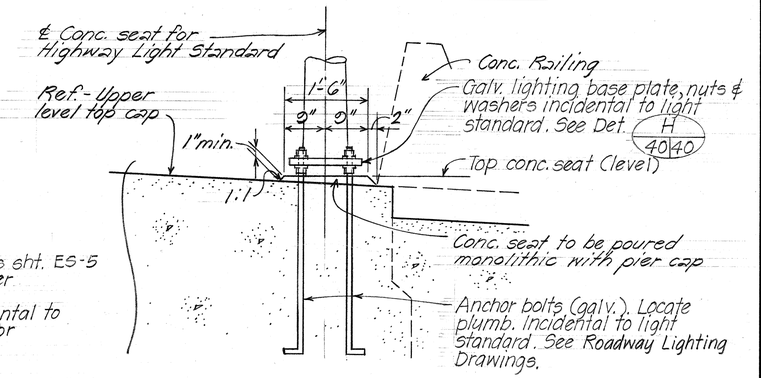


DETAIL C1 123|40 Scale: ½" = 1'-0"

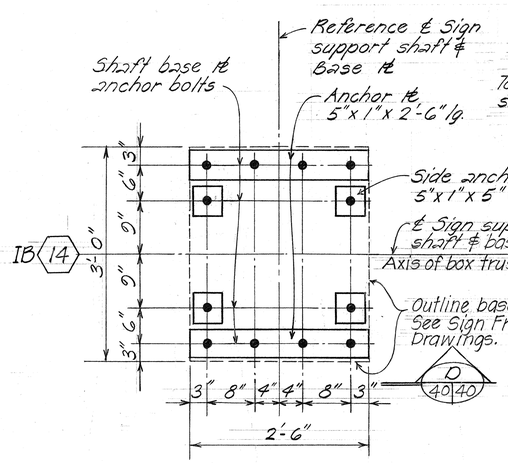
NOTE:
Refer to Highway Lighting plans for additional Light Standard details.



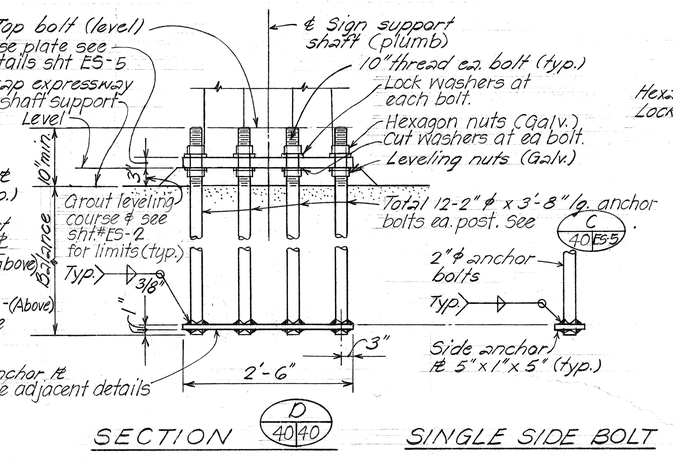
PLAN F 24|40 10, 11, 12, 23 TYPICAL LIGHT STANDARD BASE (LUMINAIRE 50' POLE) Scale: ¾" = 1'-0"



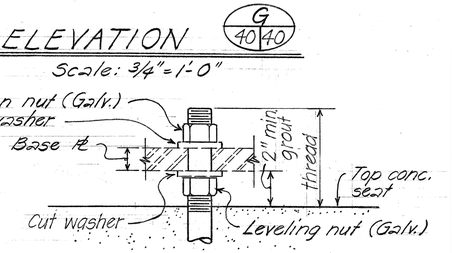
NOTES:
All anchor bolts to be located plumb. See General Notes sht. ES-5
Anchor bolts ℄ assemblage shall be galvanized after fabrication.
Anchor bolts assemblage, nuts and washer to be incidental to corresponding expressway sign frame ℄ will not be paid for separately.



PLAN



SECTION D 40|40 SINGLE SIDE BOLT



ELEVATION G 40|40 Scale: ¾" = 1'-0"

TYPICAL BASE ℍ CONNECTION DETAIL H 40|40 Scale: 3" = 1'-0"

ES-2, 41 E 40|40 SIGN POST SHAFT - ANCHOR BOLT DETAILS Scale: 1" = 1'-0"

ORIGINAL PLAN		
	SURVEY PLOTTED BY	
	DRAWN BY	TKM
	TRACED BY	DSO
NOTE BOOK	DESIGNED BY	TKM
	QUANTITIES BY	GHT
No.	CHECKED BY	DSO, EC
	DATE	NOV. '78

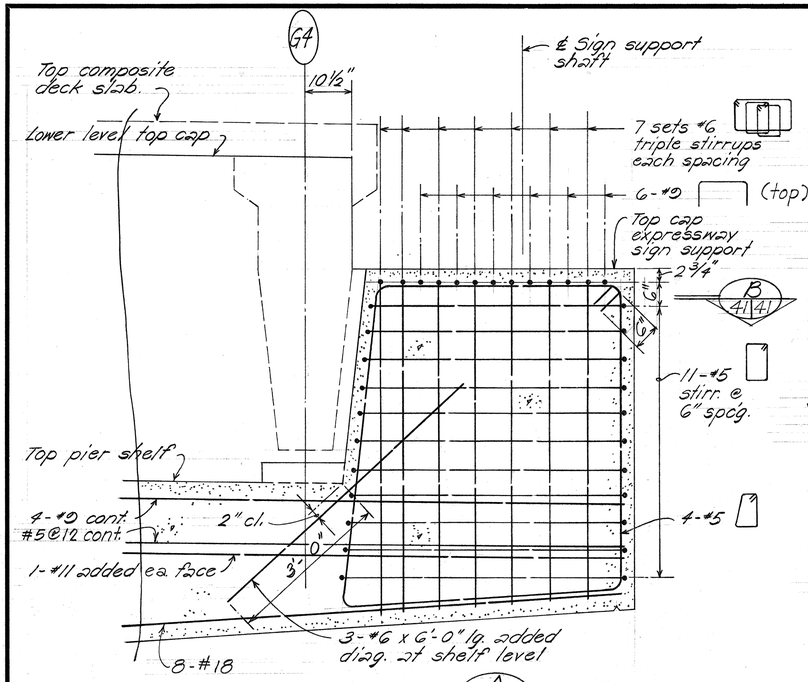
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIER FRAME PF-30A DETAILS

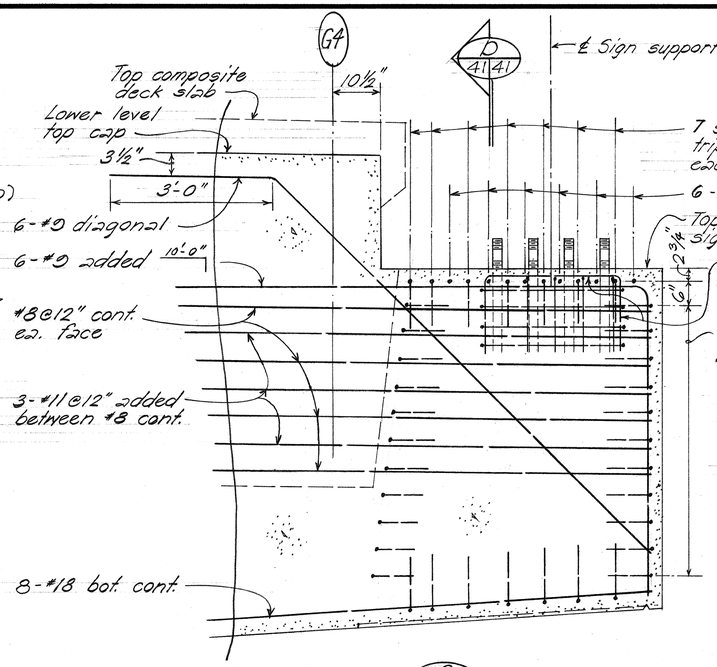
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16
SCALE: AS NOTED DATE: NOV. 1978

SHEET No. 40 OF 77 SHEETS

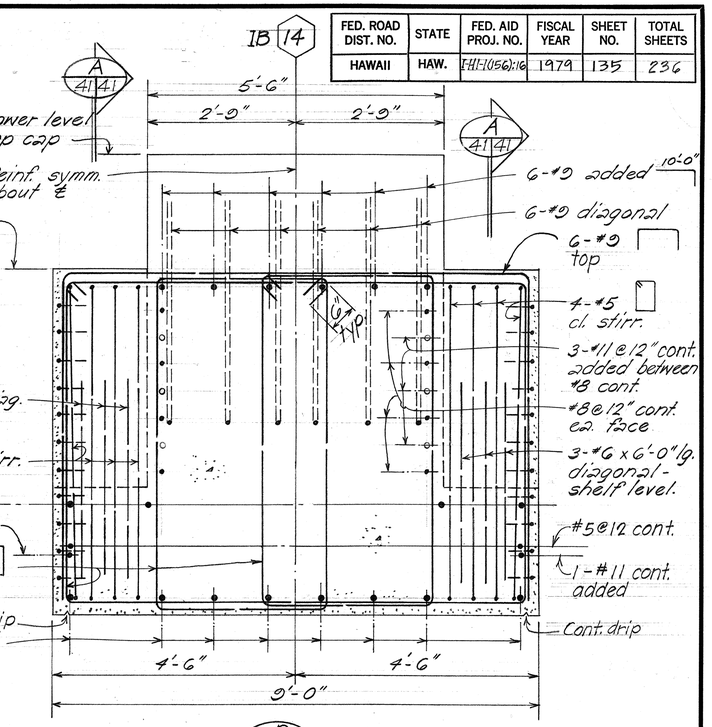
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	FHI-1056(16)	1979	135	236



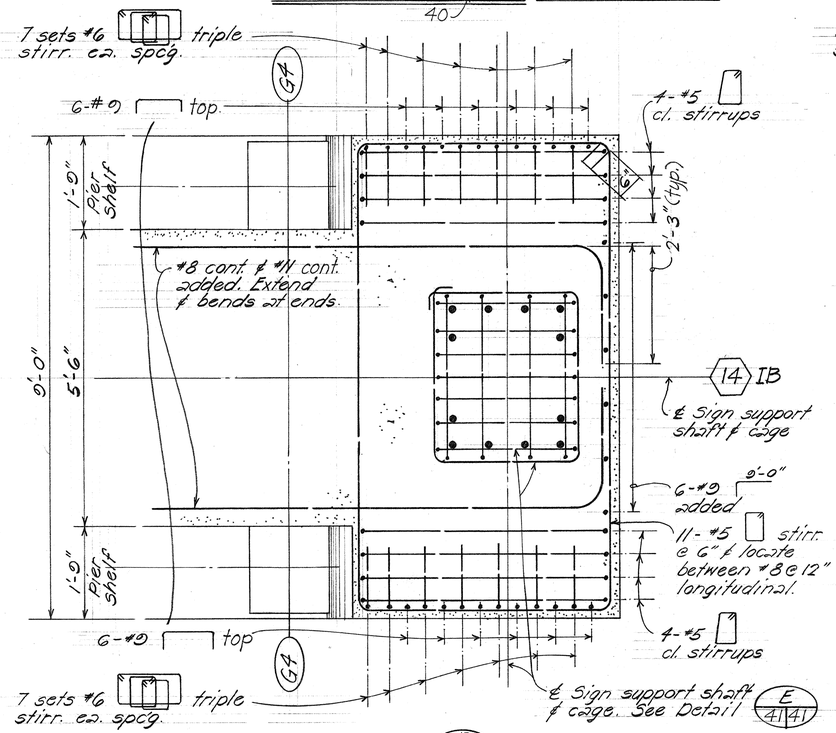
SECTION A 41|41 Scale: 3/4"=1'-0"



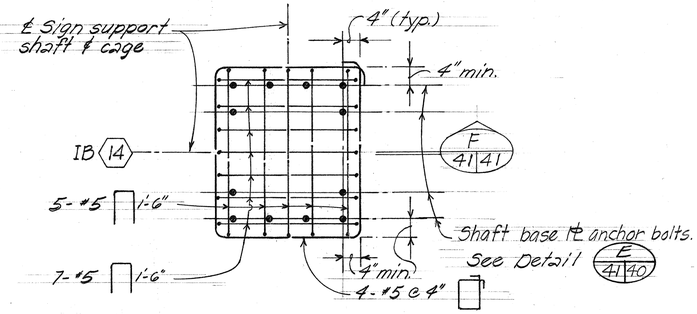
SECTION C 40|41 Scale: 3/4"=1'-0"



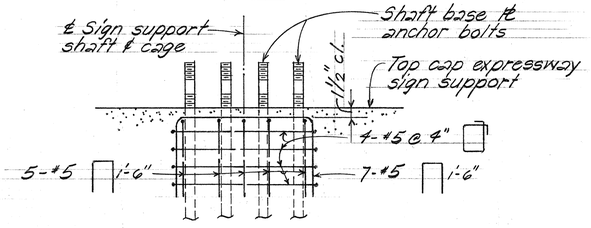
SECTION D 41|41 Scale: 3/4"=1'-0"



SECTION B 41|41 Scale: 3/4"=1'-0"



PLAN



SECTION F 41|41

TYPICAL SIGN SUPPORT CAGE REINFORCEMENT DETAIL

E 41|41 40

Scale: 3/4"=1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE NOV. '78
	DRAWN BY TKM	"
	TRACED BY DCO	"
NOTE BOOK	DESIGNED BY TKM GT	"
	QUANTITIES BY DCO, PE	"
No.	CHECKED BY	"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIER FRAME PF-30A
SECTIONS & DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156)16
SCALE: 3/4"=1'-0" DATE: NOV. 1978

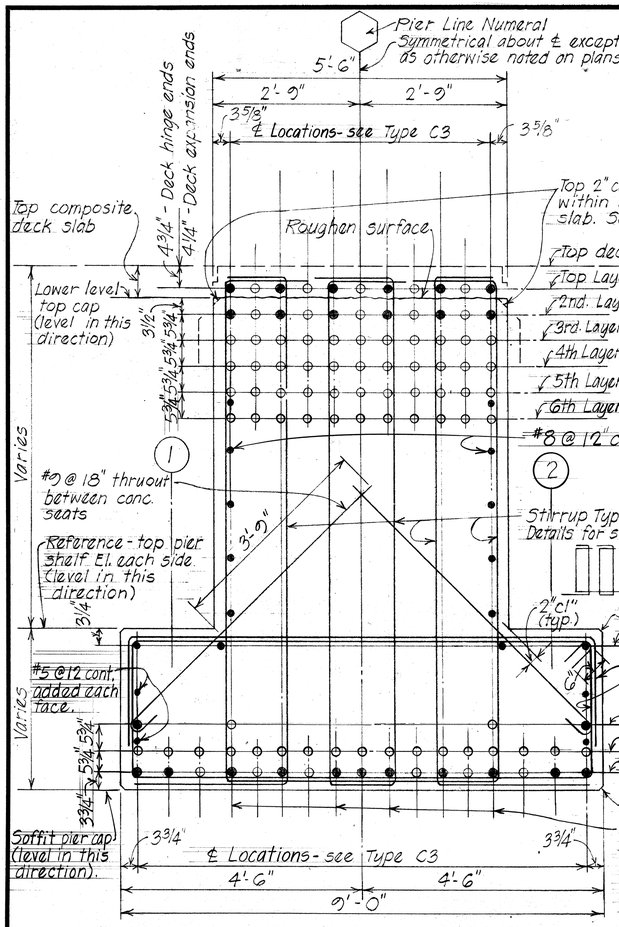
SHEET No. 41 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156)16	1979	136	236

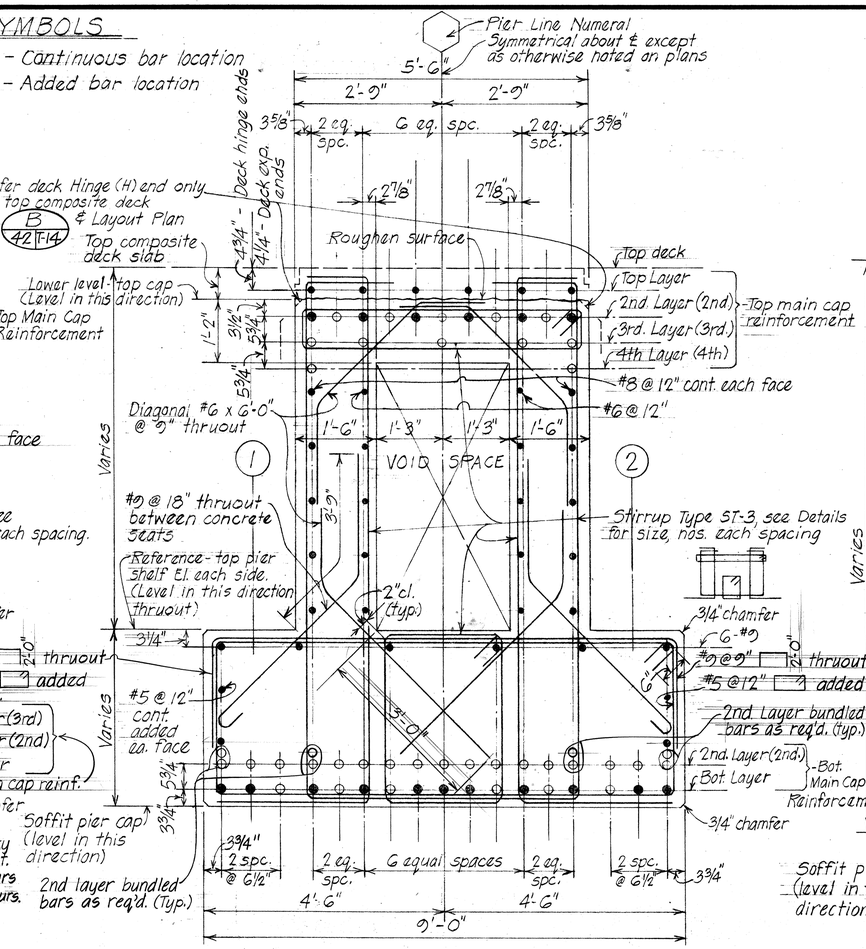
SYMBOLS

● - Continuous bar location

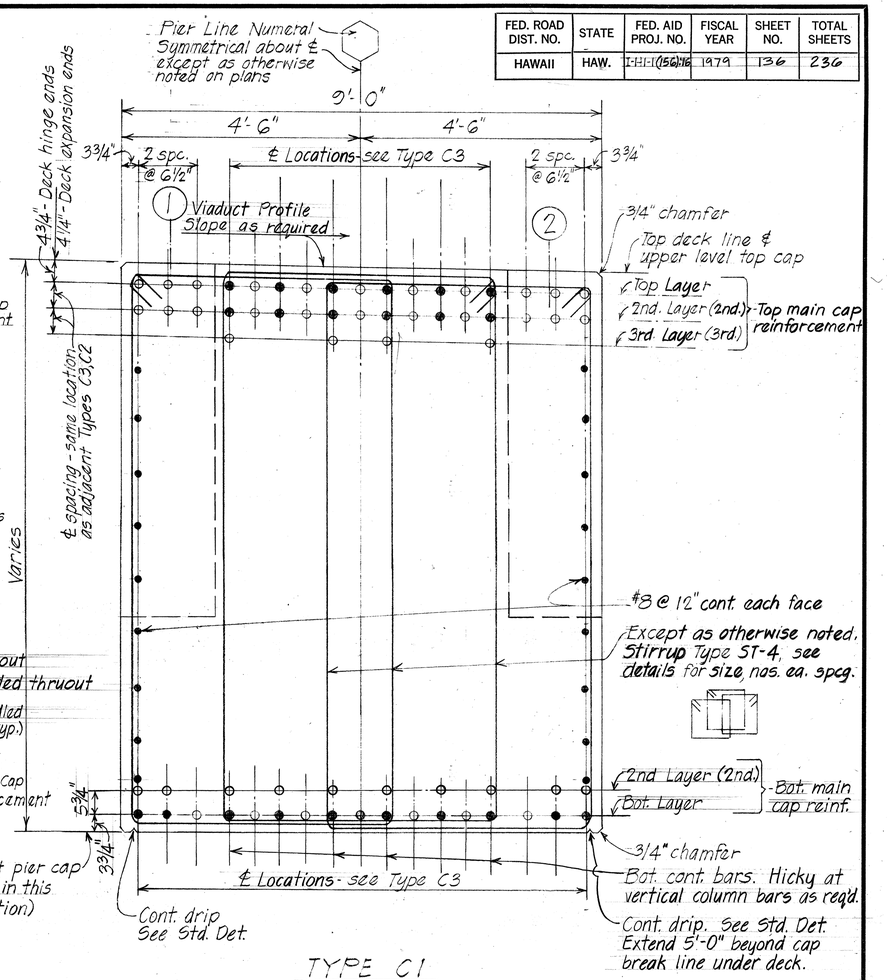
○ - Added bar location



TYPE C2



TYPE C3



TYPE C1

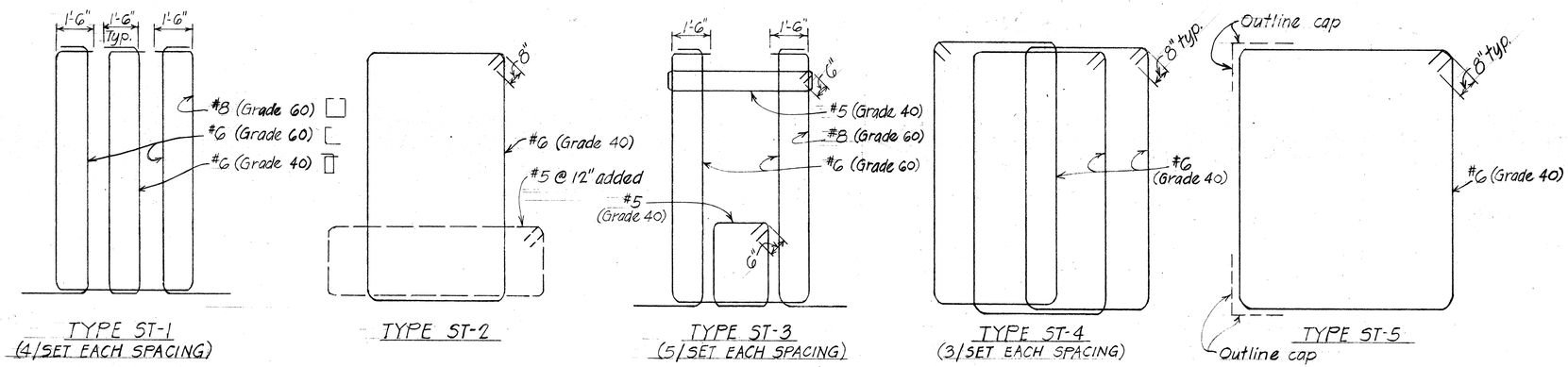
NOTE: Bottom reinf. 2nd layer bundled bars and location where occurs. Similar as adjacent detail.

TYPICAL PIER CAP SECTIONS

Scale: 3/4" = 1'-0"

NOTES:

1. Refer to Sht. #22 thru #24 incl., #34 thru #36 incl. for location & limits of pier cap section types.
2. Refer to Sht. #T-8, #T-14, #T-15 for additional cap reinforcement at conc. seats.
3. Refer to General Notes, Sht. #T-1 for exact location of bars.



NOTE: Stirrups in same plane

TYPICAL PIER CAP STIRRUP DETAILS

ORIGINAL PLAN | SURVEY PLOTTED BY | DRAWN BY NY | TRACED BY | DESIGNED BY DCO | QUANTITIES BY HTK/KM/ST/LN | CHECKED BY DCO/EC | DATE NOV. '78 | NOTE BOOK | No.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIER FRAME PF-26 THRU PF-33 INCL. - TYPICAL CAP SECTIONS

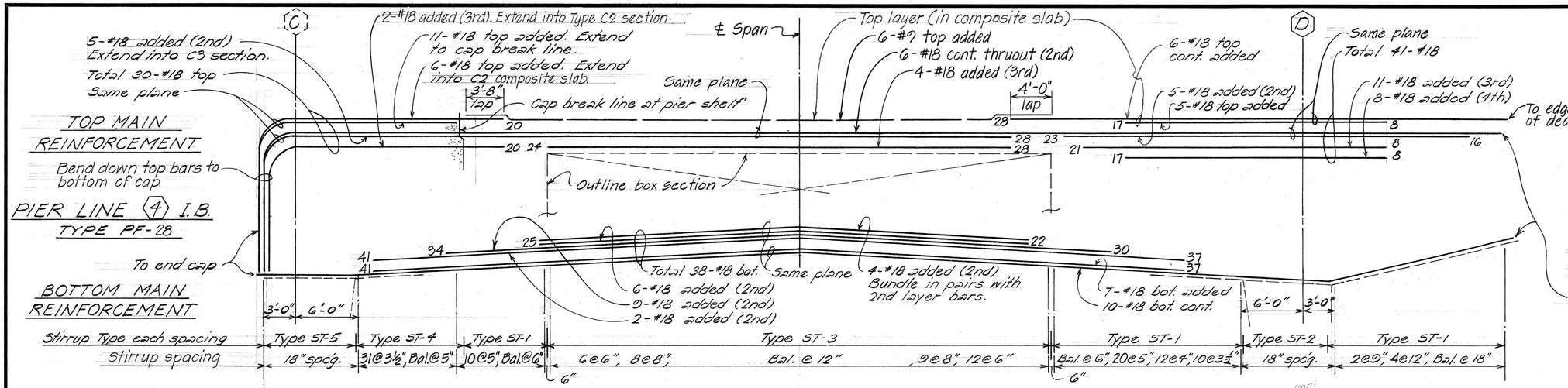
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

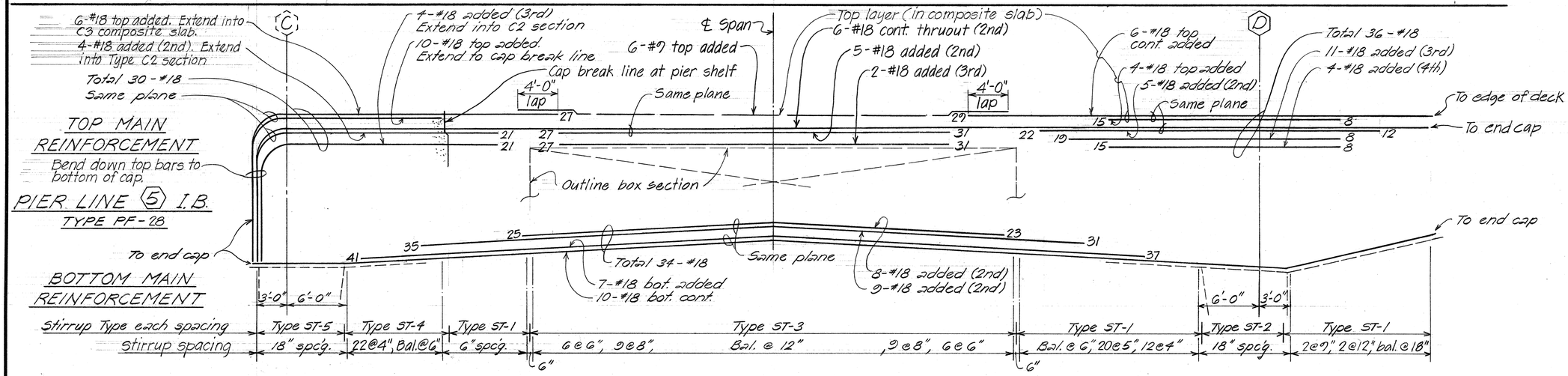
SCALE: AS NOTED DATE: NOV. 1978

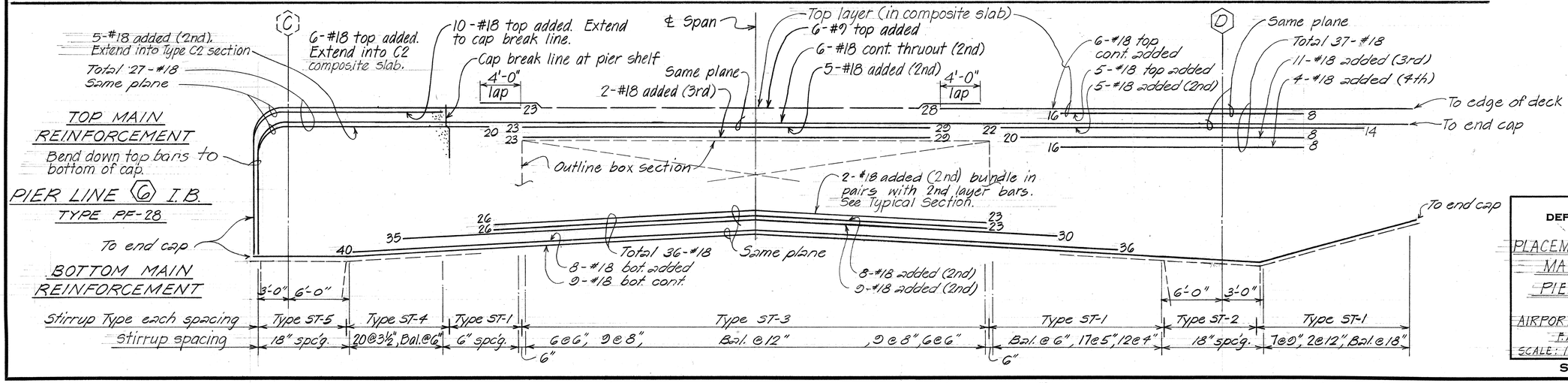
SHEET NO. 42 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	137	236

NOTES:
1. Numbers at ends of bars indicate distance in feet. Top bars measured from adjacent column line alphabet & bottom bars from ℄ span.
2. For additional pier cap reinforcement location & details, see corresponding Elevation Sht. #36.
3. Cont. added are continuous bars from one or more spans extended partially into the adjacent span at ends.







ORIGINAL PLAN		DATE	Nov. '78
	SURVEY PLOTTED BY		
	DRAWN BY	TKM	
	TRACED BY	"	
	DESIGNED BY	DCO	GT
NOTE BOOK	QUANTITIES BY	TKM	GT
No.	CHECKED BY	DCO	EG

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLACEMENT DIAGRAM - PIER FRAME
MAIN CAP REINFORCEMENT
PIER LINES (4), (5), (6) I.B.

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16
SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 43 OF 77 SHEETS

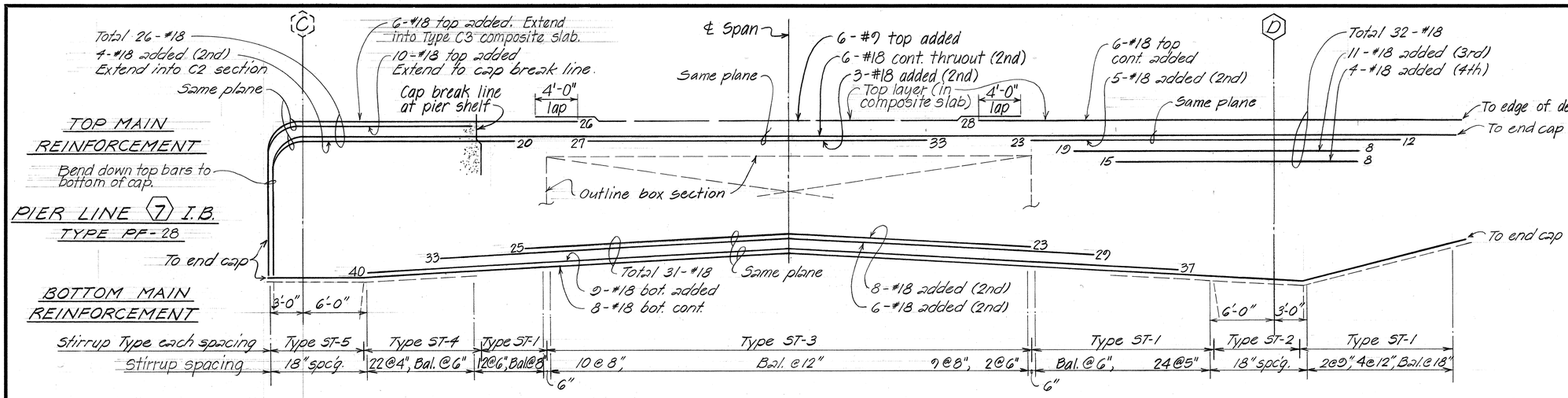
137

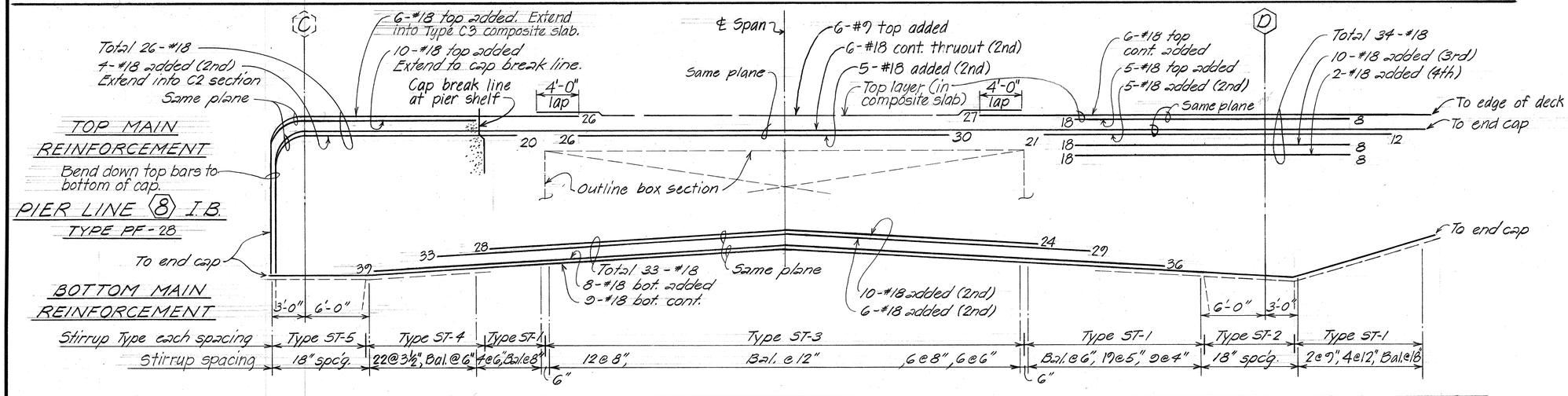
K+E TRACING PAPER

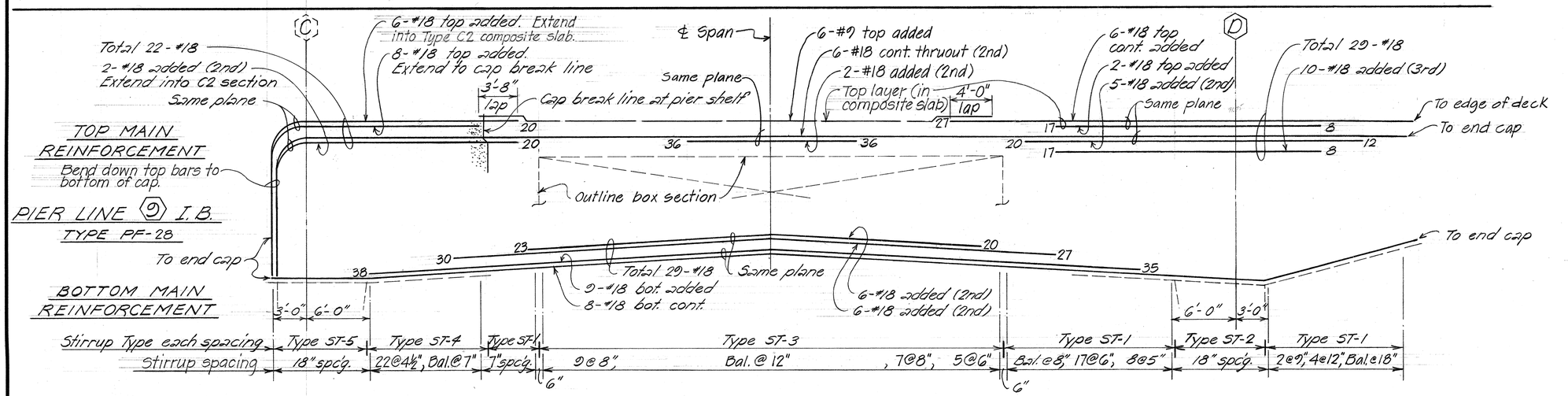
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	138	236

NOTES

1. Numbers at ends of bars indicate distance in feet. Top bars measured from adjacent column line alphabet & bottom bars from ℄ span.
2. For additional pier cap reinforcement location & details, see corresponding Elevation Sht. #36.
3. Cont. added are continuous bars from one or more spans extended partically into the adjacent span at ends.







ORIGINAL PLAN	NOTE BOOK	No.	SURVEY PLOTTED BY	DRAWN BY	TRACED BY	DESIGNED BY	QUANTITIES BY	CHECKED BY	DATE
				T.K.M.	D.C.O.	T.K.M. S.T.	D.C.O. F.E.		Nov. 1978

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLACEMENT DIAGRAM - PIER FRAME
MAIN CAP REINFORCEMENT
PIER LINES ⟨7⟩, ⟨8⟩, ⟨9⟩ I.B.

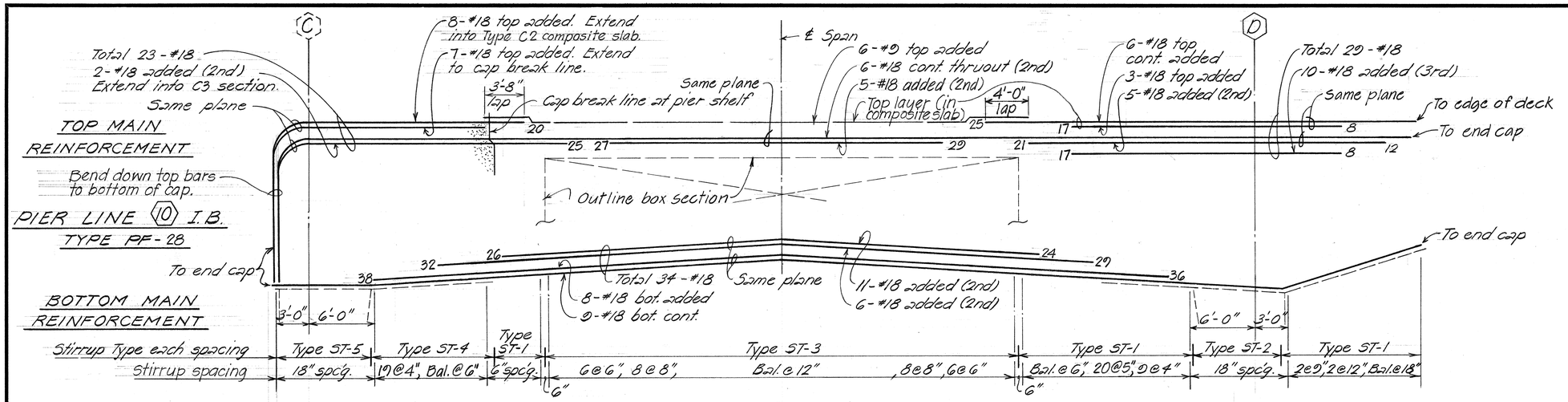
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16
SCALE: NO SCALE DATE: NOV. 1978

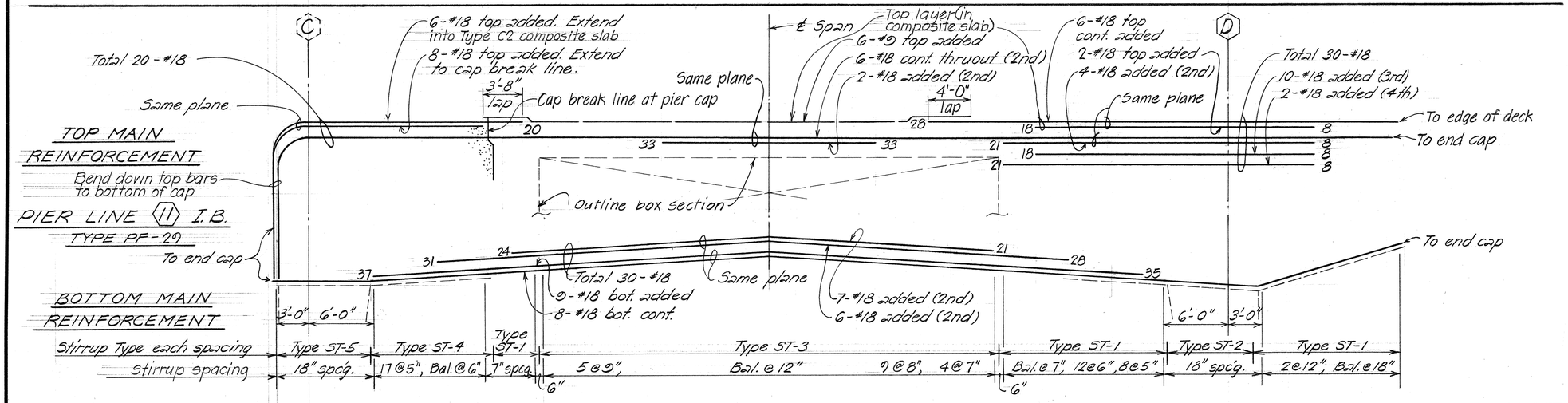
SHEET No. 44 OF 77 SHEETS

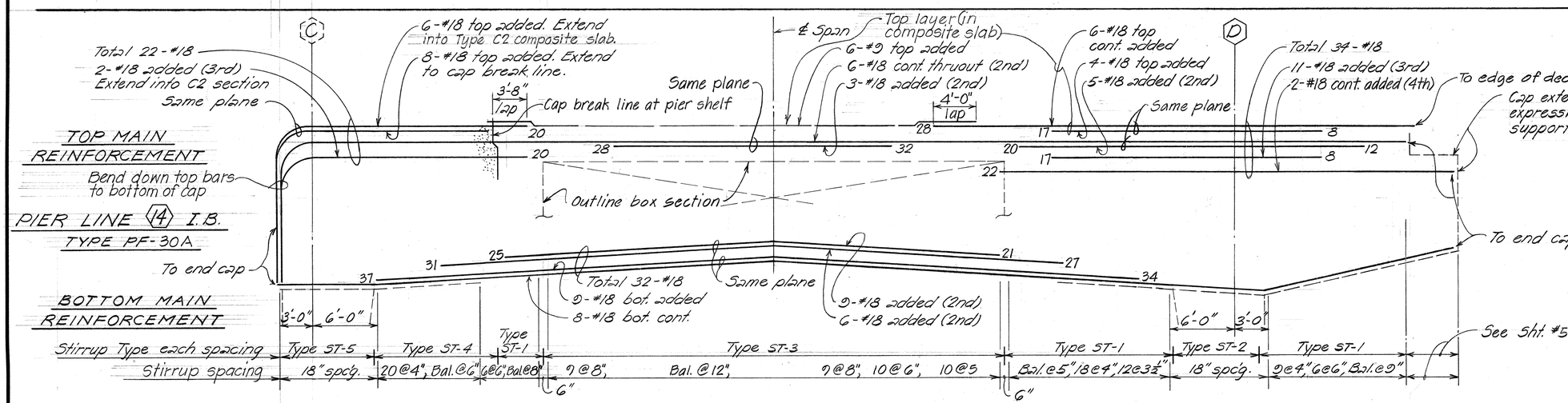
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156)16	1979	139	236

NOTES

1. Numbers at ends of bars indicate distance in feet. Top bars measured from adjacent column line alphabet & bottom bars from ℄ span.
2. For additional pier cap reinforcement location & details, see corresponding Elevation Sht. #36.
3. Cont. added are continuous bars from one or more spans extended partially into the adjacent span at ends.







ORIGINAL PLAN		SURVEY PLOTTED BY	TKM	DATE	NOV. '78
		DRAWN BY	DCG	"	"
		TRACED BY		"	"
		DESIGNED BY	TKM	"	"
NOTE BOOK		QUANTITIES BY	DCG, GT	"	"
No.		CHECKED BY	DCG, EC	"	"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

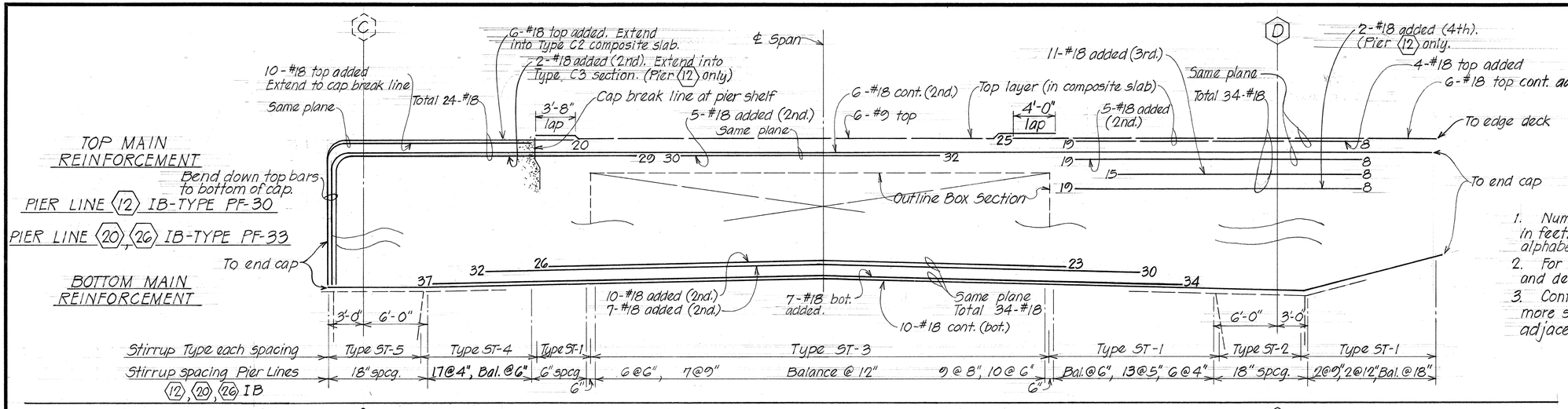
PLACEMENT DIAGRAM - PIER FRAME
MAIN CAP REINFORCEMENT
PIER LINES ⟨10⟩, ⟨11⟩ ⟨14⟩ I.B.

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156)16

SCALE: NO SCALE DATE: NOV. 1978

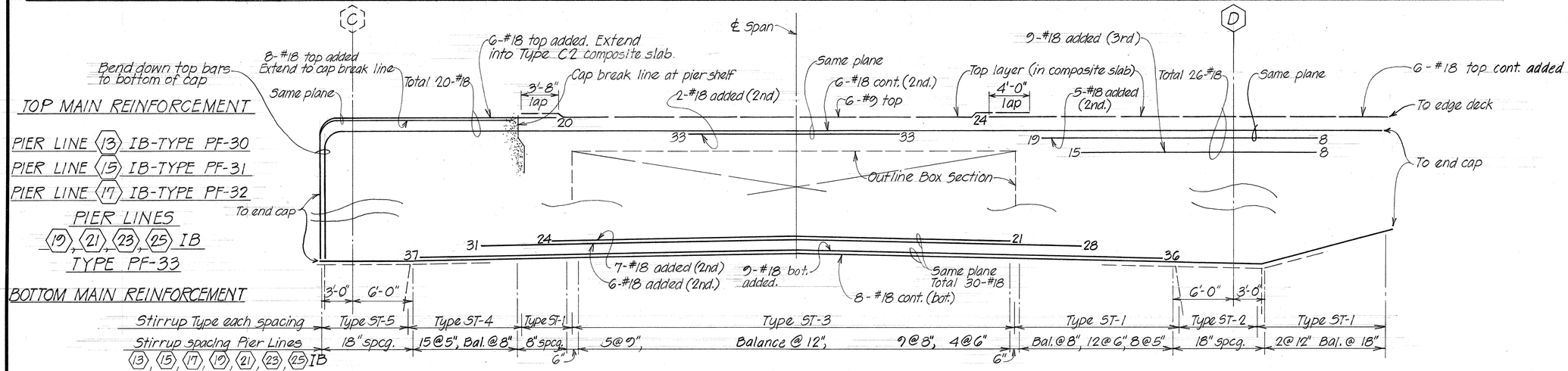
SHEET No. 45 OF 77 SHEETS

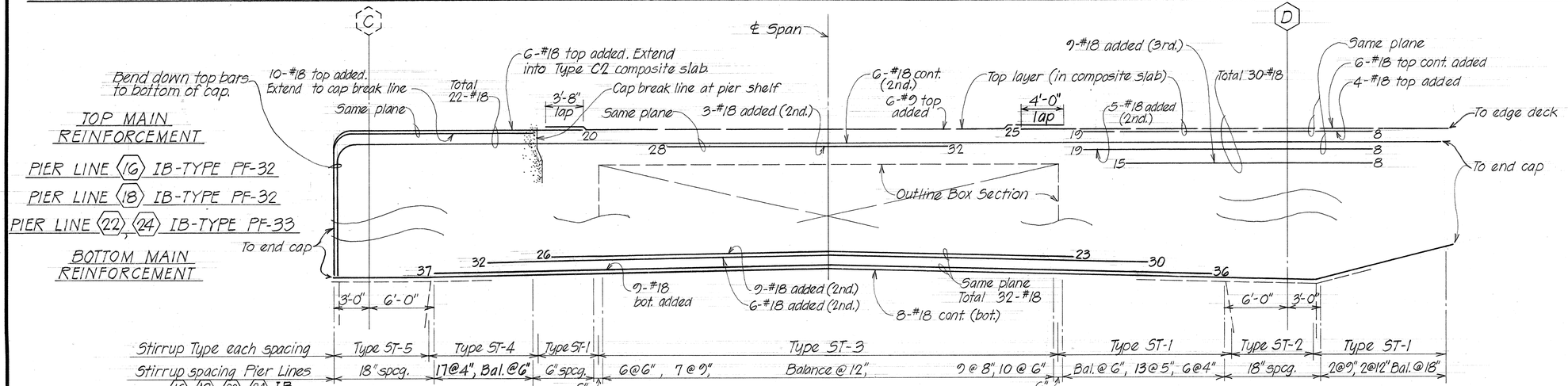
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-HI-1(156):16	1979	140	236



NOTES

1. Numbers at ends of bars indicate distance in feet. Top bars measured from adjacent column line alphabet and bottom bars from ℄ span.
2. For additional pier cap reinforcement, location and details, see corresponding Elevation Sht. #36.
3. Cont. added are continuous bars from one or more spans extended partially into the adjacent span at ends.





ORIGINAL PLAN	SURVEY PLOTTED BY	DATE Nov. '78
	DRAWN BY	"
	TRACED BY D.C.D.	"
NOTE BOOK	DESIGNED BY	"
	QUANTITIES BY T.K.M.	"
No.	CHECKED BY E.C.D., F.C.	"

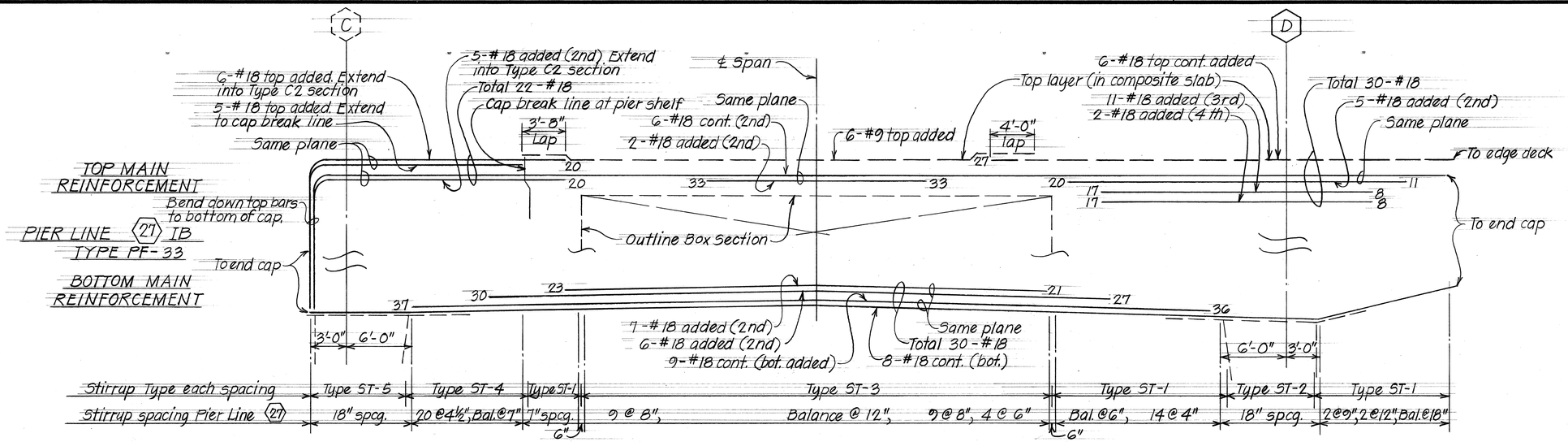
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLACEMENT DIAGRAM- PIER FRAME
MAIN CAP REINFORCEMENT
PIER LINES ⟨12⟩,⟨13⟩ I.B.
PIER LINES ⟨15⟩ THRU ⟨20⟩ I.B. INCL.
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 46 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	141	236



NOTES:

1. Numbers at ends of bars indicate distance in feet. Top bars measured from adjacent column line alphabet and bottom bars from ℄ span.
2. For additional pier cap reinforcement, location, and details, see corresponding Elevation Sht #36.
3. Cont. added are continuous bars from one or more spans extended partially into the adjacent span at ends.

ORIGINAL PLAN

NOTE BOOK No.

SURVEY PLOTTED BY LMA DATE NOV '78
DRAWN BY " " "
TRACED BY " " "
DESIGNED BY DLO QUANTITIES BY " " "
CHECKED BY DCO FC

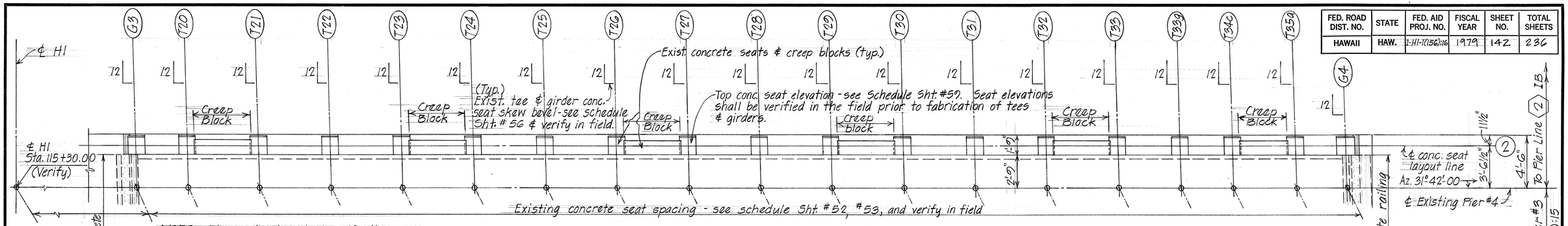
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

PLACEMENT DIAGRAM - PIER FRAME MAIN CAP REINFORCEMENT PIER LINE (27) IB

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16
SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 47 OF 77 SHEETS

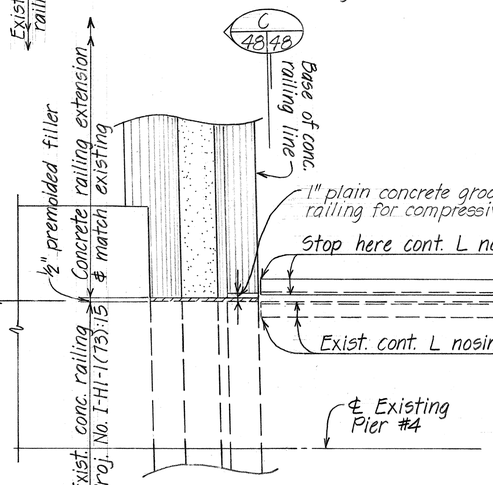
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	142	236



PART TOP PLAN - EXISTING PIER #4

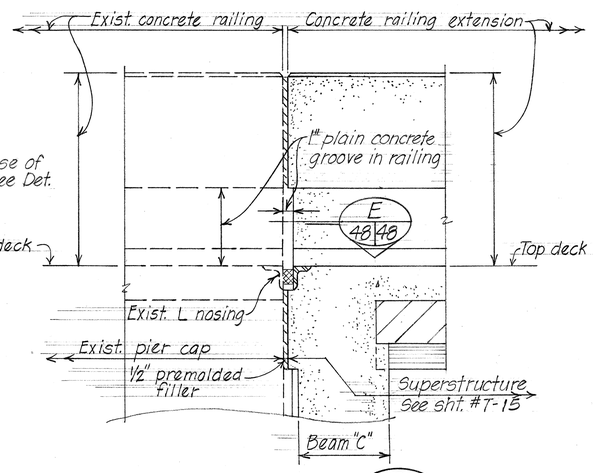
(Project No. I-HI-1(73):15

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



PLAN DETAIL A 10|48

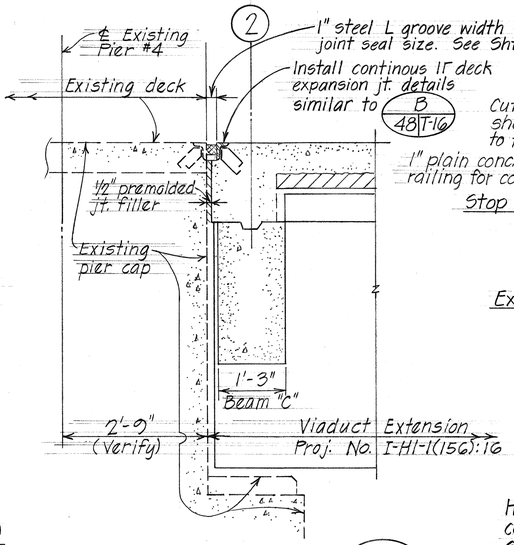
Scale: 3/4" = 1'-0"



TYPICAL SECTION C 48|48 (AS SHOWN)

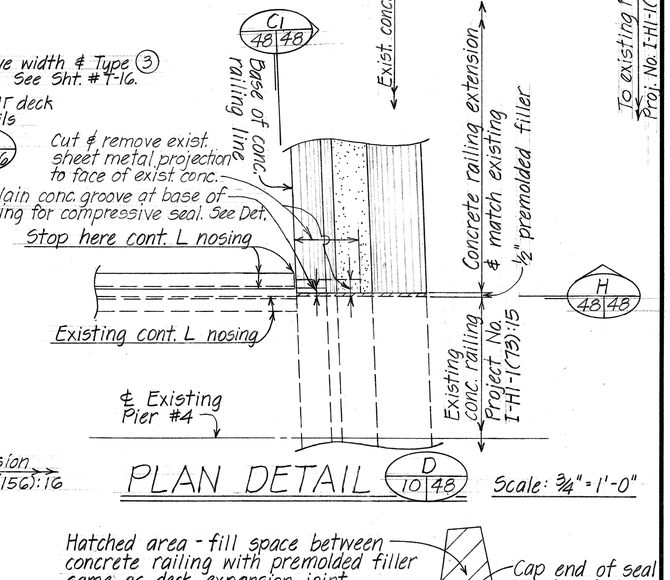
SECTION C1 48|48 (SIMILAR EXCEPT OPPOSITE HAND)

Scale: 1" = 1'-0"



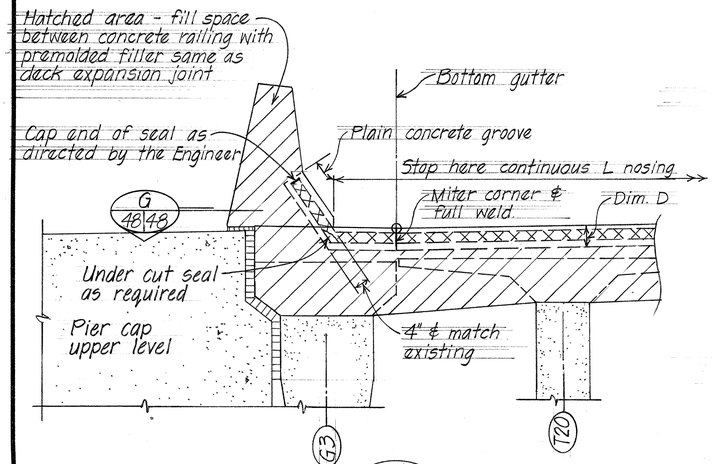
TYPICAL SECTION B 10|48

Scale: 3/4" = 1'-0"



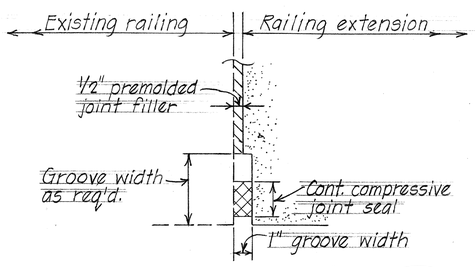
PLAN DETAIL D 10|48

Scale: 3/4" = 1'-0"



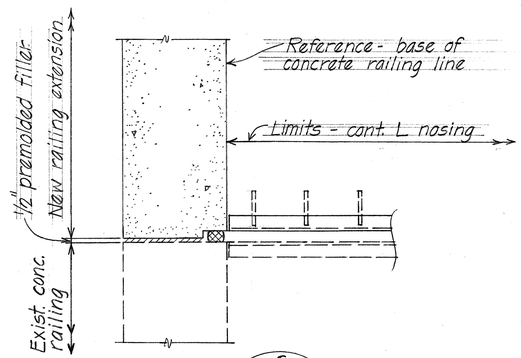
SECTION F 48|48

Scale: 3/4" = 1'-0"



TYPICAL SECTION E 48|48

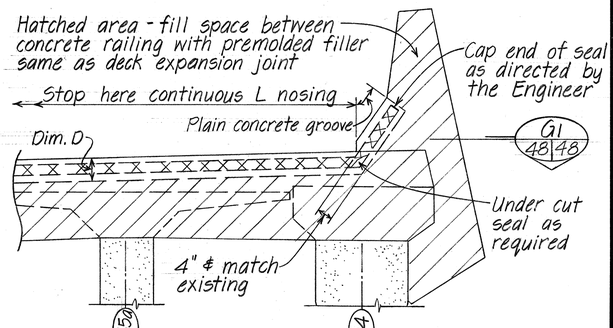
Scale: 3" = 1'-0"



TYPICAL PLAN G 48|48 (AS SHOWN)

SECTION G1 48|48 (SIMILAR EXCEPT OPPOSITE HAND)

Scale: 3/4" = 1'-0"



SECTION H 48|48

Scale: 3/4" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS AT BEGINNING OF PROJECT EXISTING PIER # 4

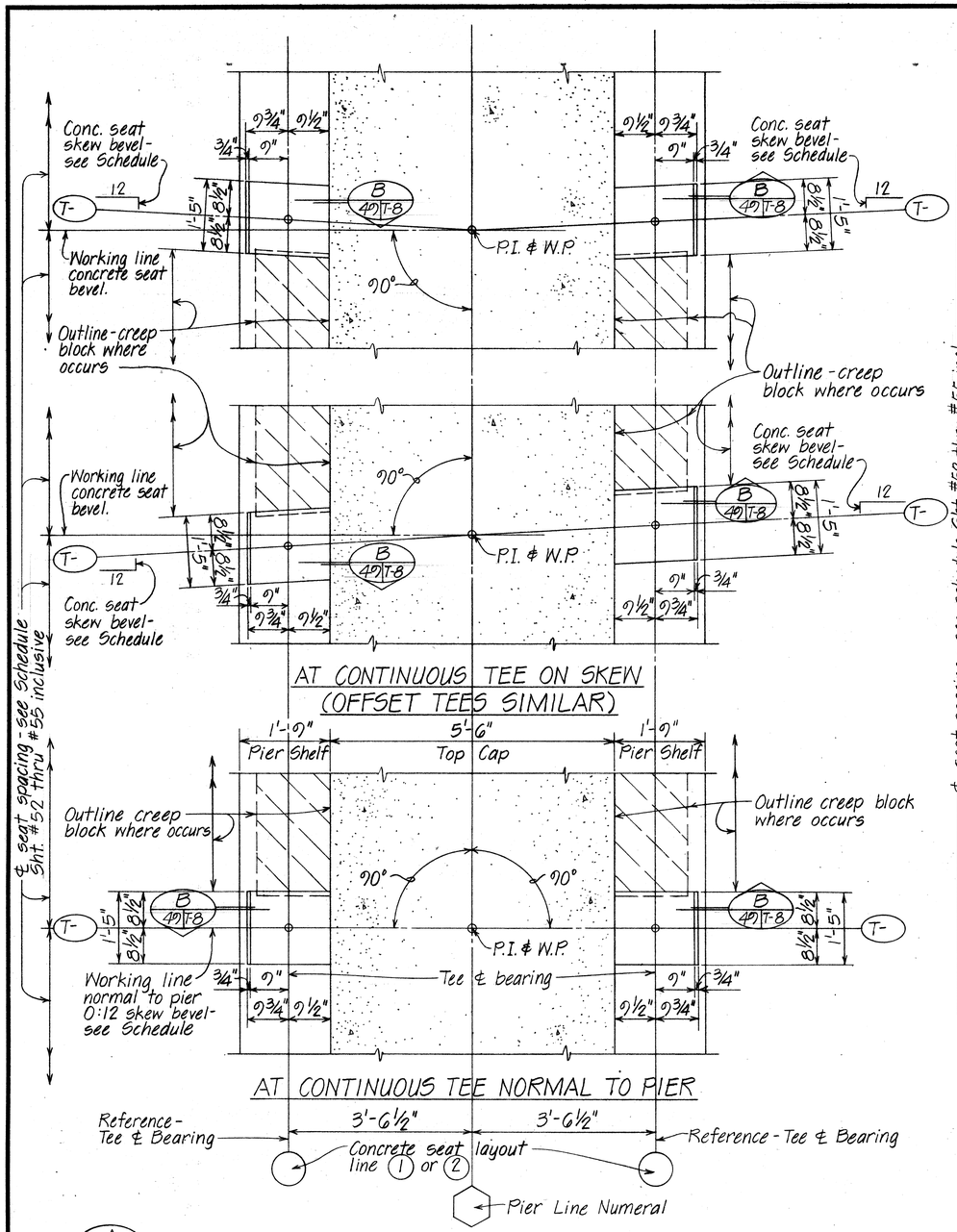
AIRPORT VIADUCT - AIRPORT INTERCHANGE
FAI. PROJ. NO. I-HI-1(156):16

SCALE: AS SHOWN DATE: NOV. 1978

SHEET No. 48 OF 77 SHEETS

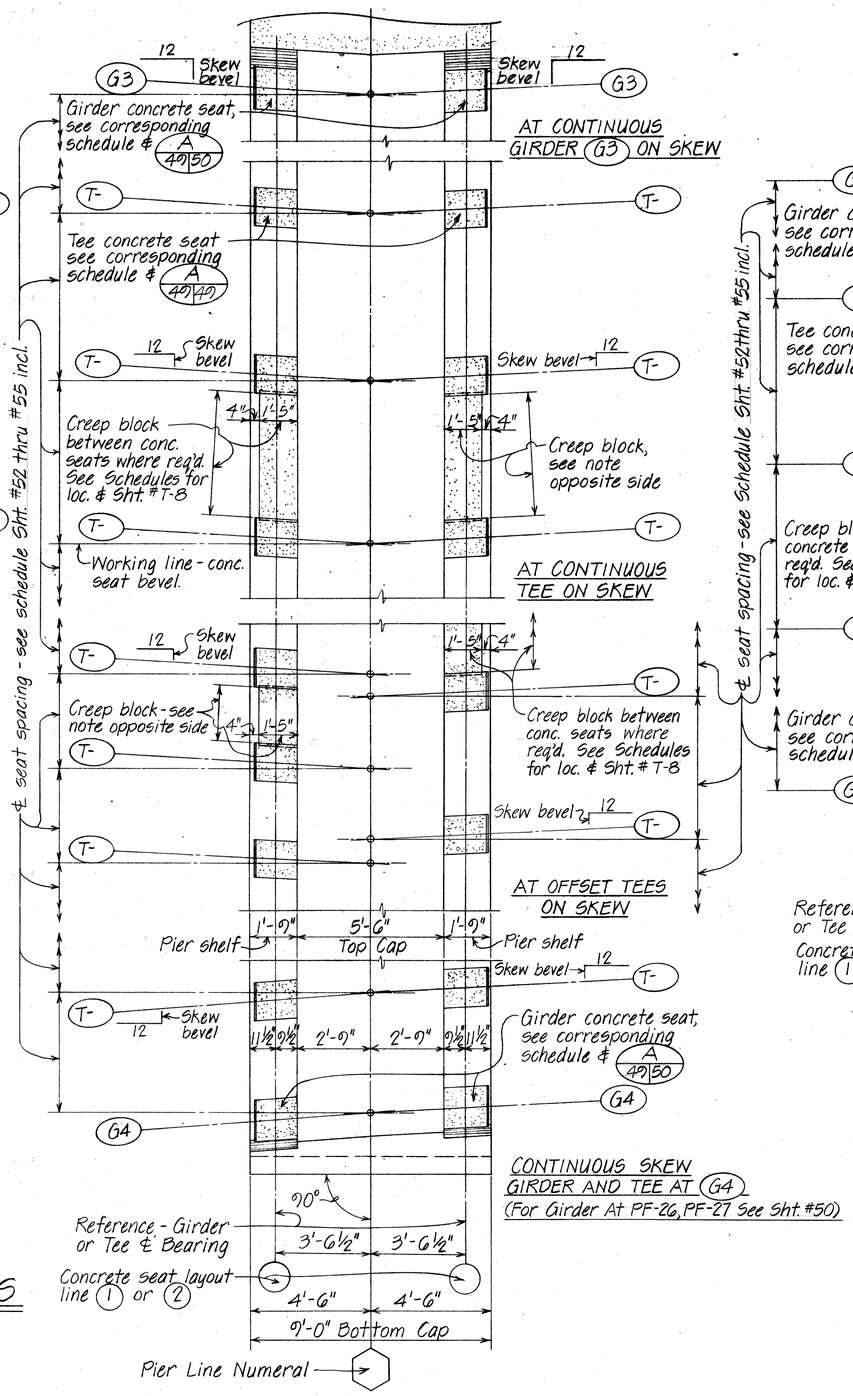
ORIGINAL PLAN	NOTE BOOK	No.	SURVEY PLOTTED BY	DRAWN BY	TRACED BY	DESIGNED BY	QUANTITIES BY	CHECKED BY	DATE
				NY		DCO		DCO, FC	Nov '78

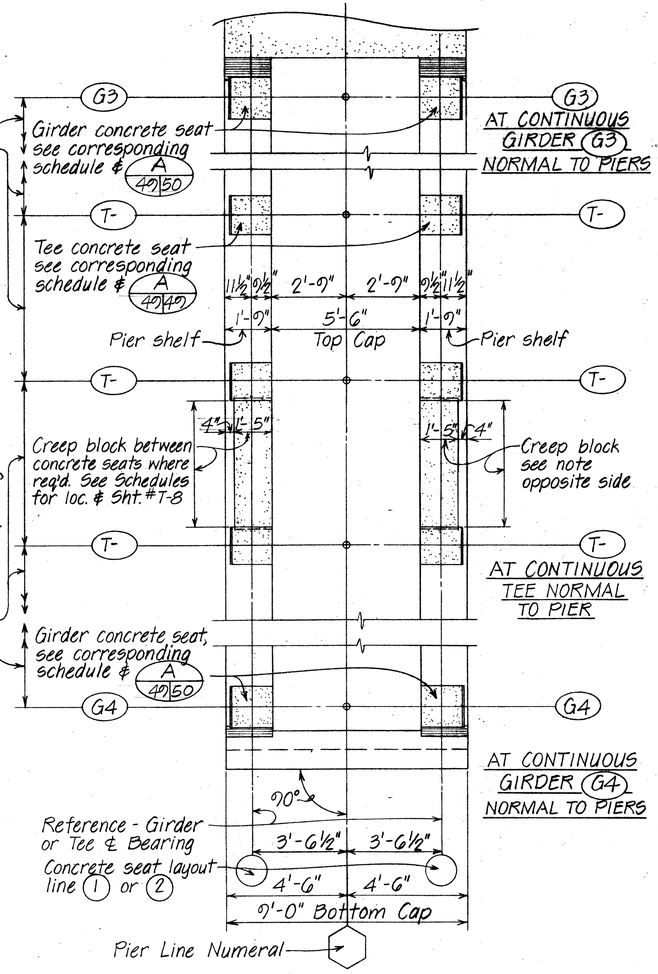
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-(156):16	1979	143	236



A 40|40 PLAN - TYPICAL TEE (T-) CONCRETE SEAT DETAILS

Scale: ¾" = 1'-0"





PLAN - TYPICAL PIER CAP CONCRETE SEAT DETAILS AT VARIOUS LOCATIONS

Scale: ⅜" = 1'-0"

NOTES:

Refer to corresponding concrete seat skew bevel schedule Shts.# 56 thru # 58 inclusive.
Refer to Sht. #50 & #T-8 for additional concrete seat location plans & details.
Beam dowels at pier shelf not shown - refer to corresponding beam details.
Refer to corresponding top concrete seat elevation schedule Sht. #50 and #60.
Refer to corresponding concrete seat & creep block location schedule Shts. #52 thru #55 inclusive.
Dowel & vertical beam restrainers in pier shelf not shown, See framing plan shts. #63 thru #66 incl., #T-14, #T-15 for locations & nos.

ORIGINAL PLAN	SURVEY PLOTTED BY		DATE	NOV. '78
	DRAWN BY	L-N	"	"
	TRACED BY		"	"
NOTE BOOK	DESIGNED BY	DSO	"	"
	QUANTITIES BY	EMI	"	"
No.	CHECKED BY	DSO, EEE	"	"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

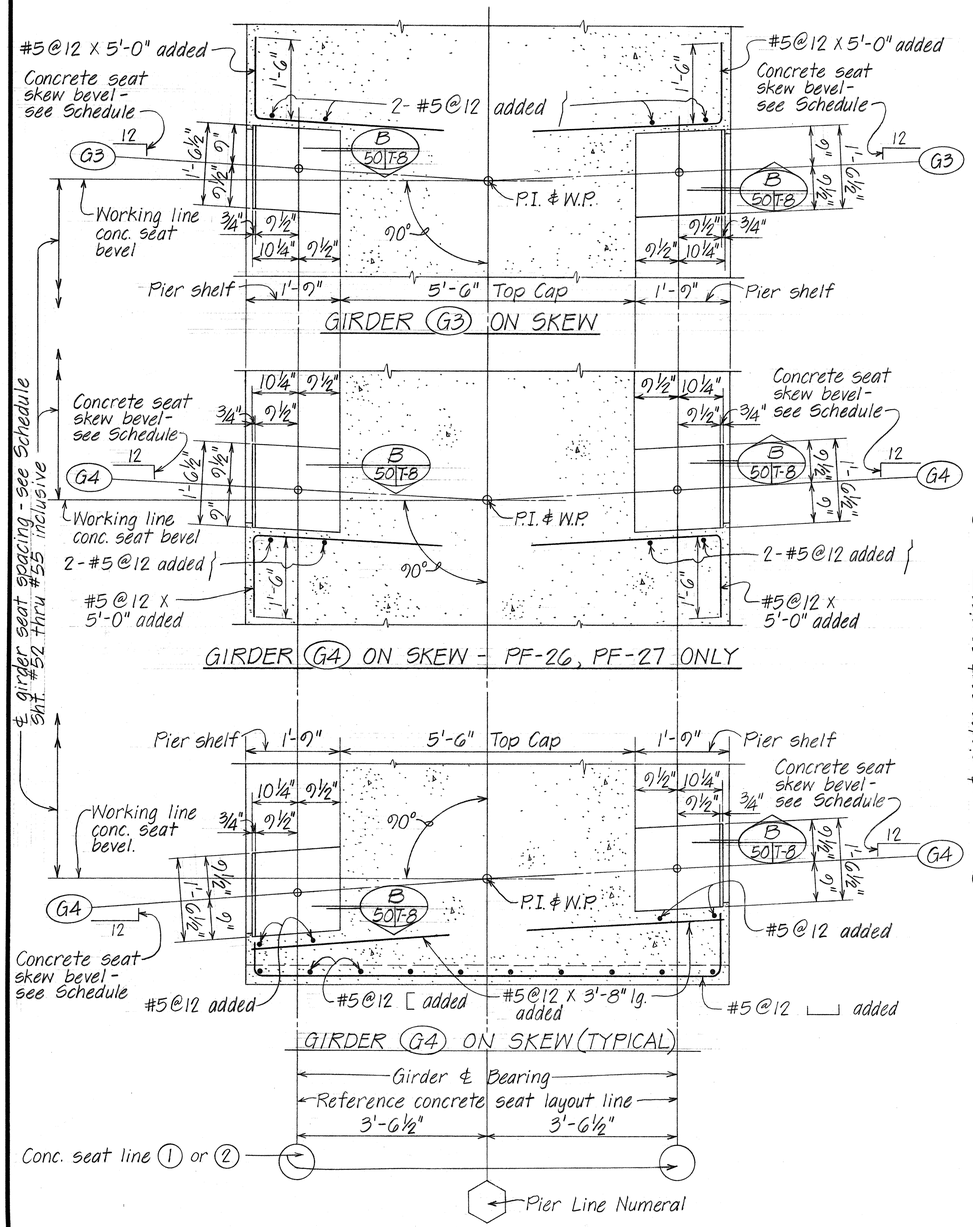
PIER FRAME SHELF
TYPICAL CONCRETE SEAT
LOCATION PLANS AND DETAILS

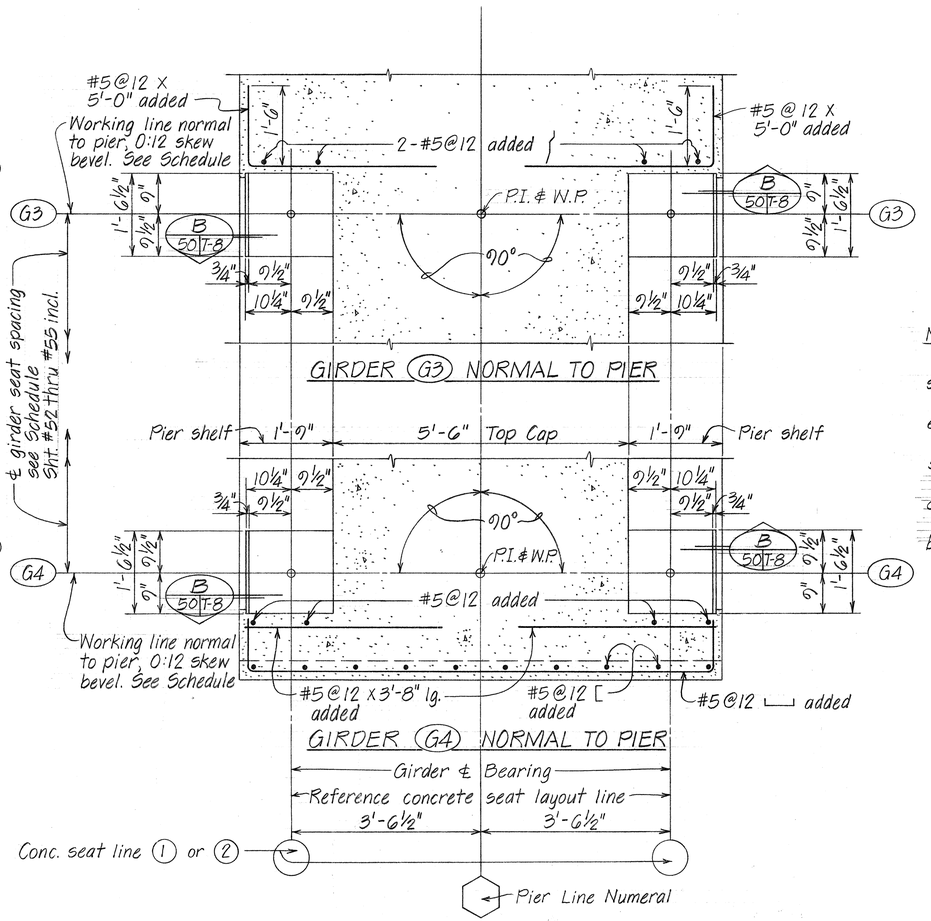
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16
SCALE: AS NOTED DATE: NOV. 1978

SHEET No. 49 OF 77 SHEETS

143

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156)16	1979	144	236





NOTES:

Refer to corresponding concrete seat skew bevel schedule Shts. #56 thru #58 inclusive.

Refer to corresponding top concrete seat elevation schedule Shts. #59 and #60.

Refer to Sht. #49 & #T-8 for additional concrete seat location plans & details.

Beam dowels at top of cap not shown - refer to corresponding beam details.

Refer to corresponding concrete seat & creep block location schedule Shts. #52 thru #55 inclusive.

ORIGINAL PLAN	SURVEY PLOTTED BY	LN	DATE	NOV. '78
	DRAWN BY	"		
	TRACED BY	"		
NOTE BOOK	DESIGNED BY	DSO		
	QUANTITIES BY	TKM, GU		
No.	CHECKED BY	DSO, FC		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIER FRAME SHELF
TYPICAL GIRDER CONCRETE SEAT
PLANS AND DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156)16

SCALE: AS NOTED DATE: NOV. 1978

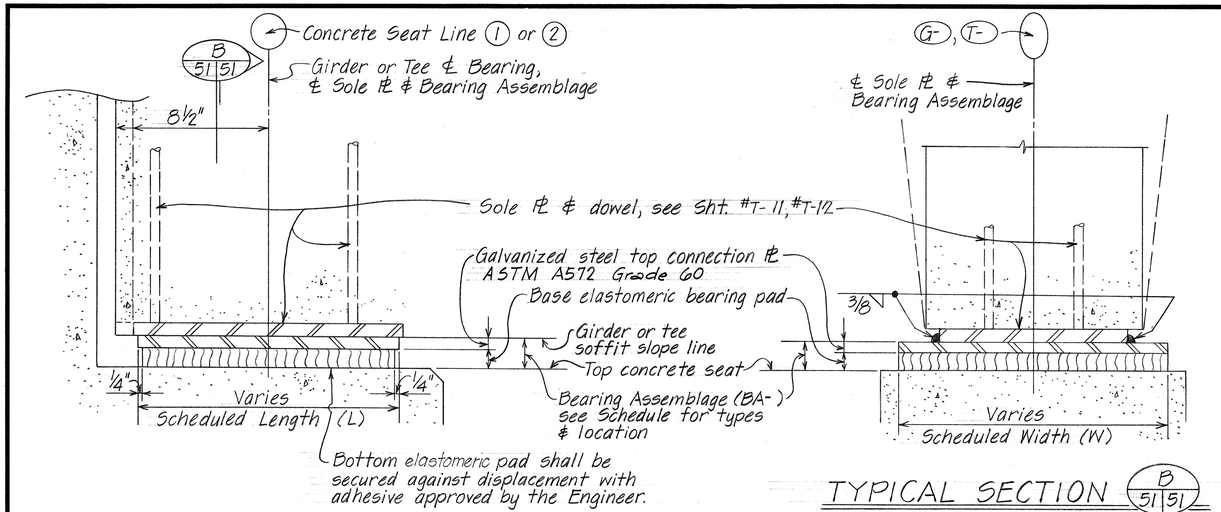
SHEET No. 50 OF 77 SHEETS

A 49|50 PLAN - TYPICAL GIRDER (G3), (G4) CONCRETE SEAT DETAILS

34, 35, 36

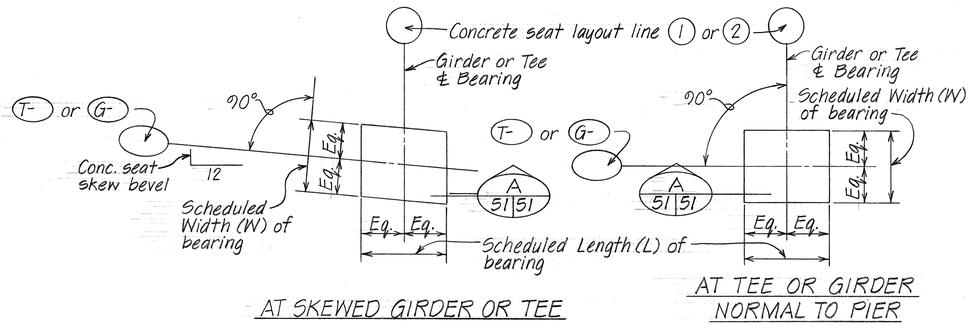
Scale: 3/4" = 1'-0"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	145	236



TYPICAL SECTION A 51|51
Scale: 3"=1'-0" T-8

TYPICAL SECTION B 51|51
Scale: 3"=1'-0"



AT SKEWED GIRDER OR TEE

AT TEE OR GIRDER NORMAL TO PIER

PLAN - DIAGRAM TYPICAL BEARING ASSEMBLAGE (BA-) DETAILS

⊛GIRDER AND TEE BEARING ASSEMBLAGE SCHEDULES

TYPE	TOP CONNECTION PLATE (GALVANIZED STEEL)			BASE ELASTOMERIC BEARING PAD			REMARKS
	SIZE		DEPTH	SIZE		DEPTH	
	(W) WIDTH	(L) LENGTH		(W) WIDTH	(L) LENGTH		
BA-1	15"	13½"	5/8"	15"	13"	1"	
BA-2	15"	14½"	5/8"	15"	14"	1"	
BA-3	15"	15"	5/8"	15"	14½"	1"	
BA-4	17"	14½"	7/8"	17"	14"	1"	
BA-5	17"	15½"	7/8"	17"	15"	1"	
BA-6	17"	16"	7/8"	17"	15½"	1"	

NOTE :

⊛Refer to corresponding concrete seat & creep block location schedule Sht. #52 thru #55 inclusive.

ORIGINAL PLAN
No.
NOTE BOOK
SURVEY PLOTTED BY LN DATE NOV.'78
DRAWN BY " " "
TRACED BY " " "
DESIGNED BY DCO
QUANTITIES BY " " "
CHECKED BY DCO FG

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIER FRAME SHELF-TEE & GIRDER CONCRETE SEAT DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 51 OF 77 SHEETS

K+E ⊛ TRACING PAPER

PART TEE AND GIRDER CONCRETE SEAT AND CREEP BLOCK LOCATION SCHEDULE - EXISTING PIER #4 IB THRU PIER LINE (11) IB INCLUSIVE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	146	236

℄ HI	G3	T20	T21	T22	T23	T24	T25	T26	T27	T28	T29	T30	GIRDER Nº / PIER LINE Nº	
	21.873'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	** SEAT SPACING	
	BA-5 SSR-1	BA-3 SSR-2	BA-3 SSR-2	BA-3 SSR-2	BA-3 SSR-2	BA-3 SSR-2	BA-3 SSR-2	BA-3 SSR-2	BA-3 SSR-2	BA-3 SSR-2	BA-3 SSR-2	BA-3 SSR-2	(2) (E)	LOCATION (11) (IB)
	BA-4 SSR-1	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	(1) (E)	
	21.807'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	** SEAT SPACING	
	BA-4 SSR-1	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	(2) (H)	LOCATION (10) (IB)
	BA-4 SSR-1	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	(1) (H)	
	21.723'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	** SEAT SPACING	
	BA-4 SSR-1	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	(2) (E)	LOCATION (9) (IB)
	BA-4 SSR-1	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	(1) (E)	
	21.624'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	** SEAT SPACING	
	BA-4 SSR-1	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	(2) (H)	LOCATION (8) (IB)
	BA-4 SSR-1	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	(1) (H)	
	21.507'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	** SEAT SPACING	
	BA-4 SSR-1	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	(2) (E)	LOCATION (7) (IB)
	BA-4 SSR-1	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	(1) (E)	
	21.375'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	** SEAT SPACING	
	BA-4 SSR-1	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	(2) (H)	LOCATION (6) (IB)
	BA-4 SSR-1	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	(1) (H)	
	21.226'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	** ℄ SEAT SPACING	
	BA-4 SSR-1	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	(2) (E)	LOCATION (5) (IB)
	BA-4 SSR-1	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	(1) (E)	
	21.061'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	** ℄ SEAT SPACING	
	BA-4 SSR-1	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	(2) (H)	LOCATION (4) (IB)
	BA-4 SSR-1	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	(1) (H)	
	20.880'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	** ℄ SEAT SPACING	
	BA-4 SSR-1	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	(2) (E)	LOCATION (3) (IB)
	BA-4 SSR-1	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	(1) (E)	
	20.683'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	** ℄ SEAT SPACING	
	BA-4 SSR-1	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	(2) (H)	LOCATION (2) (IB)
	BA-4 SSR-1	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	(1) (H)	
	20.471'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	** ℄ SEAT SPACING (Verify)	EXIST. PIER #4 (IB)
	BA-4	BA-2	BA-2	BA-2	BA-2	BA-2	BA-2	BA-2	BA-2	BA-2	BA-2	BA-2	(2) Exist. Seat	LOCATION
	EXISTING STRUCTURE - PROJECT Nº I-HI-1(73):15												(1)	

NOTE:

Refer to Sht. #T-8 for typical concrete seat, creep block and pier shelf seat reinforcement and details.

** Concrete seat spacing between ℄ adjacent tees or girders. Normal measurements in feet along pier line (℄) numeral from ℄ H-1. Refer to typical concrete seat location and details Sht. #48, #49, #50, #51.

Concrete Seat Designation: BA-1 ← Tee or Girder Bearing Assemblage Type; SSR-1 ← Shelf Seat Reinforcement Type.

Diagram - Creep block location between adjacent concrete seats.

At (2) existing concrete seats, the Contractor shall furnish & install bearing assemblage type indicated by BA- at each tee & girder.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE NOV '78
	DRAWN BY L.N.	
NOTE BOOK	TRACED BY	
	DESIGNED BY DCO	
No.	QUANTITIES BY	
	CHECKED BY DCO, EG	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIER FRAME CAP - GIRDER & TEE CONCRETE SEAT & CREEP BLOCK SCHEDULE

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 52 OF 77 SHEETS

PART TEE AND GIRDER CONCRETE SEAT AND CREEP BLOCK LOCATIONS SCHEDULE
EXISTING PIER #4 IB THRU PIER LINE ⟨15⟩ IB INCLUSIVE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	147	236

PIER LINE NUMERAL	CONCRETE SEAT LINE	ITEM	TEE OR GIRDER NUMBER
SPAN Nº 7		℄ Tee & Girder Numbers	T30 · T30b · T31c · T32a · T32h · G4
7 (IB)	LOCATION 2 (E)	Seat	BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2a · BA-5 SSR-1a
		**Spacing	5.405' · 4.643' · 4.643' · 5.407' · 4.420'
	LOCATION 1 (E)	**Spacing	6.167' · 5.025' · 3.883' · 5.025' · 4.417'
		Seat	BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2a · BA-5 SSR-1a
SPAN Nº 6		℄ Tee & Girder Numbers	T30 · T31 · T31f · T32d · T33b · G4
6 (IB)	LOCATION 2 (H)	Seat	BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2a · BA-5 SSR-1a
		**Spacing	6.167' · 5.735' · 5.304' · 5.738' · 4.420'
	LOCATION 1 (H)	**Spacing	6.167' · 4.852' · 3.537' · 3.537' · 4.853' · 4.417'
		Seat	BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-3 · BA-2 SSR-2 · BA-2 SSR-2a · BA-5 SSR-1a
SPAN Nº 5		℄ Tee & Girder Numbers	T30 · T31 · T31e · T32c · T32j · T33e · G4
5 (IB)	LOCATION 2 (E)	Seat	BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2a · BA-5 SSR-1a
		**Spacing	6.167' · 5.303' · 4.439' · 4.439' · 5.305' · 4.420'
	LOCATION 1 (E)	**Spacing	6.167' · 6.167' · 4.873' · 3.576' · 4.873' · 4.417'
		Seat	BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2a · BA-5 SSR-1a
SPAN Nº 4		℄ Tee & Girder Numbers	T30 · T31 · T32 · T32f · T33c · T34b · G4
4 (IB)	LOCATION 2 (H)	Seat	BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2a · BA-5 SSR-1a
		**Spacing	6.167' · 6.167' · 5.481' · 4.795' · 5.483' · 4.419'
	LOCATION 1 (H)	**Spacing	6.167' · 6.167' · 6.167' · 4.795' · 4.795' · 4.417'
		Seat	BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2a · BA-5 SSR-1a
SPAN Nº 3		℄ Tee & Girder Numbers	T30 · T31 · T32 · T33a · T33f · T34d · G4
3 (IB)	LOCATION 2 (E)	Seat	BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-5 SSR-1
		**Spacing	6.167' · 6.167' · 6.167' · 5.881' · 5.881' · 4.419'
	LOCATION 1 (E)	**Spacing	6.167' · 6.167' · 5.044' · 3.921' · 3.921' · 5.044' · 4.417'
		Seat	BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-3 · BA-2 SSR-2 · BA-2 SSR-2 · BA-5 SSR-1
SPAN Nº 2		℄ Tee & Girder Numbers	T30 · T31 · T32 · T32g · T33d · T34a · T34e · G4
2 (IB)	LOCATION 2 (H)	Seat	BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-5 SSR-1
		**Spacing	6.167' · 6.167' · 5.360' · 4.551' · 4.551' · 5.360' · 4.419'
	LOCATION 1 (H)	**Spacing	6.167' · 6.167' · 6.167' · 4.957' · 3.745' · 4.956' · 4.417'
		Seat	BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-5 SSR-1
SPAN Nº 1		℄ Tee & Girder Numbers	T30 · T31 · T32 · T33 · T33g · T34c · T35a · G4
EXISTING PIER #4 (IB)	LOCATION 2 (E)	Existing Conc. Seat	BA-2 · BA-2 · BA-2 · BA-2 · BA-2 · BA-2 · BA-2 · BA-5
		**Spacing	6.167' · 6.167' · 6.167' · 5.361' · 4.555' · 5.362' · 4.419'
	LOCATION 1	EXISTING STRUCTURE PROJECT Nº I-HI-1(73):15	

At (2) existing concrete seats, the Contractor shall furnish & install bearing assemblage type indicated by BA- at each tee & girder.

PIER LINE NUMERAL	CONCRETE SEAT LINE	ITEM	TEE OR GIRDER NUMBER
SPAN Nº 14		℄ Tee & Girder Numbers	T30 · T30f · T31j · G4
14 (IB)	LOCATION 2 (H)	Seat	BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-4 SSR-1a
		**Spacing	5.968' · 5.968' · 4.417'
	LOCATION 1 (H)	**Spacing	5.968' · 5.968' · 4.417'
		Seat	BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-5 SSR-1a
SPAN Nº 13		℄ Tee & Girder Numbers	T30 · T30d · T31g · G4
13 (IB)	LOCATION 2 (E)	Seat	BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-5 SSR-1a
		**Spacing	5.968' · 5.968' · 4.417'
	LOCATION 1 (E)	**Spacing	5.968' · 5.968' · 4.417'
		Seat	BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-5 SSR-1a
SPAN Nº 12		℄ Tee & Girder Numbers	T30 · T30d · T31g · G4
12 (IB)	LOCATION 2 (H)	Seat	BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-5 SSR-1a
		**Spacing	5.967' · 5.968' · 4.417'
	LOCATION 1 (H)	**Spacing	5.967' · 5.968' · 4.417'
		Seat	BA-3 SSR-2 · BA-3 SSR-2 · BA-3 SSR-2 · BA-6 SSR-1a
SPAN Nº 11		℄ Tee & Girder Numbers	T30 · T30e · T31h · G4
11 (IB)	LOCATION 2 (E)	Seat	BA-3 SSR-2 · BA-3 SSR-3 · BA-3 SSR-2 · BA-6 SSR-1a
		**Spacing	6.078' · 6.078' · 4.417'
	LOCATION 1 (E)	**Spacing	4.581' · 2.995' · 4.581' · 4.417'
		Seat	BA-2 SSR-2 · BA-2 SSR-3 · BA-2 SSR-3 · BA-2 SSR-2 · BA-5 SSR-1a
SPAN Nº 10		℄ Tee & Girder Numbers	T30 · T30a · T31a · T31k · G4
10 (IB)	LOCATION 2 (H)	Seat	BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-5 SSR-1a
		**Spacing	4.942' · 3.716' · 4.943' · 4.419'
	LOCATION 1 (H)	**Spacing	4.942' · 3.717' · 4.942' · 4.417'
		Seat	BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-5 SSR-1a
SPAN Nº 9		℄ Tee & Girder Numbers	T30 · T30c · T31b · T32b · G4
9 (IB)	LOCATION 2 (E)	Seat	BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-5 SSR-1a
		**Spacing	5.393' · 4.618' · 5.395' · 4.418'
	LOCATION 1 (E)	**Spacing	6.167' · 4.620' · 4.620' · 4.417'
		Seat	BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-5 SSR-1a
SPAN Nº 8		℄ Tee & Girder Numbers	T30 · T31 · T31d · T32e · G4
8 (IB)	LOCATION 2 (H)	Seat	BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-5 SSR-1a
		**Spacing	6.167' · 5.701' · 5.703' · 4.420'
	LOCATION 1 (H)	**Spacing	4.985' · 3.802' · 3.802' · 4.985' · 4.417'
		Seat	BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-3 · BA-2 SSR-2 · BA-2 SSR-2 · BA-5 SSR-1a
SPAN Nº 7		℄ Tee & Girder Numbers	T30 · T30b · T31c · T32a · T32h · G4

PIER LINE NUMERAL	CONCRETE SEAT LINE	ITEM	TEE OR GIRDER NUMBER
SPAN Nº 15		℄ Tee & Girder Numbers	T30 · T31 · T32 · G4
15 (IB)	LOCATION 2 (E)	Seat	BA-1 SSR-2 · BA-1 SSR-2 · BA-1 SSR-2 · BA-4 SSR-1a
		**Spacing	6.167' · 6.167' · 4.417'
	LOCATION 1 (E)	**Spacing	6.167' · 6.167' · 4.417'
		Seat	BA-2 SSR-2 · BA-2 SSR-2 · BA-2 SSR-2 · BA-4 SSR-1a
SPAN Nº 14		℄ Tee & Girder Numbers	T30 · T30f · T31j · G4

REFERENCE NOTE: Refer to Sht. #52 for notes and designations.

SURVEY PLOTTED BY	DATE NOV. 1978
DRAWN BY	
TRACED BY	
DESIGNED BY	DCS
QUANTITIES BY	DCS, EG
CHECKED BY	
ORIGINAL PLAN	NOTE BOOK No.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIER FRAME CAP - GIRDER & TEE CONCRETE SEAT & CREEP BLOCK SCHEDULE

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 53 OF 77 SHEETS

TEE AND GIRDER CONCRETE SEAT AND CREEP BLOCK LOCATION SCHEDULE - PIER LINES ⟨16⟩ IB THRU ⟨20⟩ IB INCLUSIVE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	148	236

℄ HI	G3	T20	T21	T22	T23	T24	T25	T26	T27	T28	T29	T30	T31	T32	G4	GIRDER Nº / PIER LINE Nº		
	21.583'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	4.417'	* * ℄ SEAT SPACING		
	BA- 5 SSR- 1	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 5 SSR-1a	② (H)	LOCATION	⟨20⟩
	BA- 4 SSR- 1	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 4 SSR-1a	① (H)		(IB)
	21.583'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	4.417'	* * ℄ SEAT SPACING		
	BA- 4 SSR- 1	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 4 SSR-1a	② (E)	LOCATION	⟨19⟩
	BA- 4 SSR- 1	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 4 SSR-1a	① (E)		(IB)
	21.583'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	4.417'	* * ℄ SEAT SPACING		
	BA- 4 SSR- 1	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 4 SSR-1a	② (H)	LOCATION	⟨18⟩
	BA- 4 SSR- 1	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 4 SSR-1a	① (H)		(IB)
	21.583'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	4.417'	* * ℄ SEAT SPACING		
	BA- 4 SSR- 1	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 4 SSR-1a	② (E)	LOCATION	⟨17⟩
	BA- 4 SSR- 1	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 4 SSR-1a	① (E)		(IB)
	21.583'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	4.417'	* * ℄ SEAT SPACING		
	BA- 4 SSR- 1	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 4 SSR-1a	② (H)	LOCATION	⟨16⟩
	BA- 4 SSR- 1	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 4 SSR-1a	① (H)		(IB)

PART TEE AND GIRDER CONCRETE SEAT AND CREEP BLOCK LOCATION SCHEDULE - PIER LINES ⟨12⟩ IB THRU ⟨15⟩ IB INCLUSIVE

℄ HI	G3	T20	T21	T22	T23	T24	T25	T26	T27	T28	T29	T30	GIRDER Nº / PIER LINE Nº		
	21.583'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	* * ℄ SEAT SPACING		
	BA- 4 SSR- 1	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	BA- 1 SSR- 2	② (E)	LOCATION	⟨15⟩
	BA- 4 SSR- 1	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	① (E)		(IB)
	21.973'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	* * ℄ SEAT SPACING		
	BA- 4 SSR- 1	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	② (H)	LOCATION	⟨14⟩
	BA- 4 SSR- 1	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	① (H)		(IB)
	21.958'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	* * ℄ SEAT SPACING		
	BA- 4 SSR- 1	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	② (E)	LOCATION	⟨13⟩
	BA- 4 SSR- 1	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	① (E)		(IB)
	21.927'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	* * ℄ SEAT SPACING		
	BA- 4 SSR- 1	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	BA- 2 SSR- 2	② (H)	LOCATION	⟨12⟩
	BA- 5 SSR- 1	BA- 3 SSR- 2	BA- 3 SSR- 2	BA- 3 SSR- 2	BA- 3 SSR- 2	BA- 3 SSR- 2	BA- 3 SSR- 2	BA- 3 SSR- 2	BA- 3 SSR- 2	BA- 3 SSR- 2	BA- 3 SSR- 2	BA- 3 SSR- 2	① (H)		(IB)

REFERENCE NOTE: Refer to Sht. #52 for notes & designations.

ORIGINAL PLAN	
NOTE BOOK	
No.	
SURVEY PLOTTED BY	
DRAWN BY	L.N.
TRACED BY	"
DESIGNED BY	D.E.O.
QUANTITIES BY	"
CHECKED BY	D.E.O., E.G.
DATE	NOV. '78

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIER FRAME CAP - GIRDER & TEE CONCRETE SEAT & CREEP BLOCK SCHEDULE

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 54 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	149	236

TEE AND GIRDER CONCRETE SEAT AND CREEP BLOCK LOCATION SCHEDULE - PIER LINES (21) IB THRU (27) IB INCLUSIVE

℄ HI	G3	T20	T21	T22	T23	T24	T25	T26	T27	T28	T29	T30	T31	T32	G4	GIRDER Nº / PIER LINE Nº	
	21.583'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	4.417'	* * ℄ SEAT SPACING	
	SSR-1	SSR-2	SSR-2	SSR-2	SSR-2	SSR-2	SSR-2	SSR-2	SSR-2	SSR-2	SSR-2	SSR-2	SSR-2	SSR-2	SSR-1a	(2) (E)	LOCATION (27) (IB)
	BA-5 SSR-1	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-5 SSR-1a	(1) (E)	
	21.583'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	4.417'	* * ℄ SEAT SPACING	
	BA-5 SSR-1	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-5 SSR-1a	(2) (H)	LOCATION (26) (IB)
	BA-4 SSR-1	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-4 SSR-1a	(1) (H)	
	21.583'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	4.417'	* * ℄ SEAT SPACING	
	BA-4 SSR-1	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-4 SSR-1a	(2) (E)	LOCATION (25) (IB)
	BA-4 SSR-1	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-4 SSR-1a	(1) (E)	
	21.583'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	4.417'	* * ℄ SEAT SPACING	
	BA-4 SSR-1	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-4 SSR-1a	(2) (H)	LOCATION (24) (IB)
	BA-4 SSR-1	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-4 SSR-1a	(1) (H)	
	21.583'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	4.417'	* * ℄ SEAT SPACING	
	BA-4 SSR-1	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-4 SSR-1a	(2) (E)	LOCATION (23) (IB)
	BA-4 SSR-1	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-4 SSR-1a	(1) (E)	
	21.583'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	4.417'	* * ℄ SEAT SPACING	
	BA-4 SSR-1	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-4 SSR-1a	(2) (H)	LOCATION (22) (IB)
	BA-4 SSR-1	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-4 SSR-1a	(1) (H)	
	21.583'	4.417'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	6.167'	4.417'	* * ℄ SEAT SPACING	
	BA-4 SSR-1	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-1 SSR-2	BA-4 SSR-1a	(2) (E)	LOCATION (21) (IB)
	BA-5 SSR-1	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-2 SSR-2	BA-5 SSR-1a	(1) (E)	

REFERENCE NOTE: Refer to Sht. #52 for notes & designations.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE NOV. '78
	DRAWN BY L.A.	" " N
NOTE BOOK	TRACED BY	" " N
	DESIGNED BY DCO	
No.	QUANTITIES BY	
	CHECKED BY DCO, EG	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIER FRAME CAP - GIRDER & TEE CONCRETE SEAT & CREEP BLOCK SCHEDULE

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 55 OF 77 SHEETS

K&E TRACING PAPER

Existing Pier #4
Proj. No. I-HI-1(73):15

TEE AND GIRDER CONCRETE SEAT SKEW BEVEL SCHEDULE

(MEASURED FROM WORKING LINE)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	150	236

LOCATION / GIRDER NUMBER	℄ Exist. Pier #4 (2) Existing Seat Line	SKEW BEVEL	IB 2 (1)	SKEW ⊛ DIRECTION	(2)	SKEW BEVEL	IB 3 (1)	(2)	IB 4 (1)	(2)	IB 5 (1)	(2)	IB 6 (1)	(2)	IB 7 (1)	(2)	IB 8 (1)	(2)	IB 9 (1)	(2)	IB 10 (1)	(2)	IB 11 (1)	(2)	IB 12 (1)
G3	5/32 : 12 (Verify)	7/32 : 12		5/32 : 12		3/16 : 12		5/32 : 12	3/16 : 12	5/32 : 12	3/16 : 12	5/32 : 12	3/16 : 12	5/32 : 12	3/16 : 12	5/32 : 12	3/16 : 12	5/32 : 12	3/16 : 12	5/32 : 12	3/16 : 12	5/32 : 12	3/16 : 12	3/16 : 12	3/16 : 12
T20																									
T21																									
T22																									
T23																									
T24																									
T25	Do.	Do.		Do.		Do.		Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.
T26																									
T27																									
T28																									
T29																									
T30																	5/32 : 12		3/16 : 12		5/32 : 12		3/16 : 12	3/16 : 12	3/16 : 12
T31	5/32 : 12 (Verify)	7/32 : 12		5/32 : 12		3/16 : 12		5/32 : 12	3/16 : 12	5/32 : 12	3/16 : 12	5/32 : 12	3/16 : 12	5/32 : 12	3/16 : 12			5/32 : 12	3/16 : 12		5/32 : 12				

Exist. Pier #4
Proj. No. I-HI-1(73):15

LOCATION / GIRDER NUMBER	℄ Exist Pier #4 (2) Existing Seat Line	SKEW BEVEL	IB 2 (1)	SKEW ⊛ DIRECTION	(2)	SKEW BEVEL	IB 3 (1)	(2)	IB 4 (1)	(2)	IB 5 (1)	(2)	IB 6 (1)
T31e											7/32 : 12	1/8 : 12	
T32	5/32 : 12 (Verify)	7/32 : 12		5/32 : 12		3/16 : 12		5/32 : 12	3/16 : 12	5/32 : 12	3/16 : 12		
T32c											11/32 : 12	1/32 : 12	
T32f										7/32 : 12	1/8 : 12		
T32g				3/16 : 12		5/32 : 12							
T32j											7/16 : 12	3/32 : 12	
T33	5/32 : 12 (Verify)	7/32 : 12											
T33a								5/32 : 12	3/16 : 12				
T33c										13/32 : 12	1/32 : 12		
T33d				9/32 : 12		1/16 : 12							
T33e											1/2 : 12	5/32 : 12	
T33f								9/32 : 12	1/16 : 12				
T33g	3/16 : 12 (Verify)	5/32 : 12											
T34a				11/32 : 12		0 : 12							
T34b										15/32 : 12	1/8 : 12		
T34c	5/16 : 12 (Verify)	1/16 : 12											
T34d								7/16 : 12	3/32 : 12				
T34e				13/32 : 12		1/16 : 12							
T35a	3/8 : 12 (Verify)	0 : 12											
G4	3/8 : 12 (Verify)	0 : 12		13/32 : 12		1/16 : 12		7/16 : 12	3/32 : 12	15/32 : 12	1/8 : 12	1/2 : 12	5/32 : 12

LOCATION / GIRDER NUMBER	(2)	IB 12 (1)	SKEW BEVEL	IB 13 (1)	SKEW ⊛ DIRECTION	(2)	SKEW BEVEL	IB 14 (1)	(2)	IB 15 (1)
G3	5/32 : 12		3/16 : 12		3/16 : 12		3/16 : 12		5/32 : 12	1/32 : 12
T20										
T21										
T22										
T23										
T24	Do.		Do.		Do.		Do.		Do.	Do.
T25										
T26										
T27										
T28										
T29										
T30	5/32 : 12		3/16 : 12		3/16 : 12		3/16 : 12		5/32 : 12	1/32 : 12

NOTE :
⊛ Skew direction measured from working line concrete seat bevel
Refer to sheet #49, #50 for skew bevel designation & diagram.

ORIGINAL PLAN		
NOTE BOOK	No.	
SURVEY PLOTTED BY		DATE Nov. '78
DRAWN BY	E.A.	" "
TRACED BY		" "
DESIGNED BY	F.K.	" "
QUANTITIES BY		" "
CHECKED BY	D.C.Q., F.C.	" "

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIER CAP GIRDER & TEE CONCRETE SEAT SKEW BEVEL SCHEDULE

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 56 OF 77 SHEETS

K+E ⊛ TRACING PAPER

TEE AND GIRDER CONCRETE SEAT SKEW BEVEL SCHEDULE

(MEASURED FROM WORKING LINE)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	151	236

LOCATION / GIRDER NUMBER	6 IB	SKEW BEVEL	7 IB	SKEW DIRECTION	SKEW BEVEL	8 IB	9 IB	10 IB	IB 11
	2	1	2		1	2	1 2	1 2	1
T30g								7/32 : 12	1/8 : 12
T30b			7/32 : 12		1/8 : 12				
T30c							7/32 : 12	1/8 : 12	
T31a								5/16 : 12	1/32 : 12
T31b							11/32 : 12	0 : 12	
T31c			5/16 : 12		0 : 12				
T31d						5/16 : 12	1/32 : 12		
T31f	1/4 : 12		3/32 : 12						
T31k								11/32 : 12	0 : 12
T320			7/16 : 12		3/32 : 12				
T32b							13/32 : 12	1/16 : 12	
T32d	7/16 : 12		3/32 : 12						
T32e						7/16 : 12	3/32 : 12		
T32h			1/2 : 12		5/32 : 12				
T33b	17/32 : 12		3/16 : 12						
G4	17/32 : 12		3/16 : 12		1/2 : 12	5/32 : 12	7/16 : 12	3/32 : 12	13/32 : 12	1/16 : 12	11/32 : 12	0 : 12

LOCATION / GIRDER NUMBER	15 IB	SKEW BEVEL	16 IB	SKEW DIRECTION	SKEW BEVEL	17 IB	18 IB	19 IB	IB 20
	2	1	2		1	2	1 2	1 2	1
G3	0 : 12	0 : 12		0 : 12	0 : 12		0 : 12	0 : 12	0 : 12
T20									
T21									
T22									
T23									
T24									
T25									
T26	Do.	Do.		Do.	Do.		Do.	Do.	Do.
T27									
T28									
T29									
T30									
T31									
T32									
G4	0 : 12	0 : 12		0 : 12	0 : 12		0 : 12	0 : 12	0 : 12

NOTE:

⊛ Skew direction measured from working line concrete seat bevel.

Refer to sheet #49, #50 for skew bevel designation and diagram.

LOCATION / GIRDER NUMBER	20 IB	SKEW BEVEL	21 IB	SKEW DIRECTION	SKEW BEVEL	22 IB	23 IB	24 IB	25 IB	26 IB	27 IB
	2	1	2		1	2	1 2	1 2	1 2	1 2	1 2
G3	0 : 12	0 : 12		0 : 12	0 : 12		0 : 12	0 : 12	0 : 12	0 : 12	0 : 12
T20											
T21											
T22											
T23											
T24											
T25											
T26	Do.	Do.		Do.	Do.		Do.	Do.	Do.	Do.	Do.
T27											
T28											
T29											
T30											
T31											
T32											
G4	0 : 12	0 : 12		0 : 12	0 : 12		0 : 12	0 : 12	0 : 12	0 : 12	0 : 12

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	
	DRAWN BY LMA	NOV. '78
NOTE BOOK	TRACED BY	"
No.	DESIGNED BY F.K.	"
	QUANTITIES BY	"
	CHECKED BY DGO, FC	"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIER CAP GIRDER & TEE CONCRETE SEAT SKEW BEVEL SCHEDULE

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16
SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 57 OF 77 SHEETS

K+E ® TRACING PAPER

TEE AND GIRDER CONCRETE SEAT SKEW BEVEL SCHEDULE

(MEASURED FROM WORKING LINE)

LOCATION / GIRDER NUMBER	11 IB 2	SKEW BEVEL 12 IB 1	SKEW ⊛ DIRECTION 12 IB 2	SKEW BEVEL 13 IB 1	13 IB 2	14 IB 1	14 IB 2	IB 15 1
T30d			5/32 : 12	3/16 : 12	3/16 : 12	3/16 : 12		
T30e	3/16 : 12	3/16 : 12						
T30f							1/8 : 12	0 : 12
T31g			5/32 : 12	3/16 : 12	3/16 : 12	3/16 : 12		
T31h	7/32 : 12	3/16 : 12						
T31j							3/32 : 12	1/32 : 12
G4	7/32 : 12	3/16 : 12	5/32 : 12	3/16 : 12	3/16 : 12	3/16 : 12	3/32 : 12	1/32 : 12

NOTE:

⊛ Skew direction measured from working line concrete seat bevel.
Refer to sheet #49, #50 for skew bevel designation & diagram.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156)16	1979	152	236

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY LMA	" NOV. '78
	TRACED BY	"
NOTE BOOK	DESIGNED BY DCO	"
	QUANTITIES BY	"
No.	CHECKED BY DCO, EC	"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

PIER CAP GIRDER & TEE CONCRETE SEAT SKEW BEVEL SCHEDULE

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 58 OF 77 SHEETS

GIRDER OR TEE - TOP CONCRETE SEAT ELEVATION SCHEDULE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	153	236

Existing Pier #4
Proj. No. I-HI-1(73):15

℄ EXIST'G PIER LOCATION #4 / GIRDER OR TEE Nº	(VERIFY) EXISTING SEAT LINE (2)	2 IB (1)	2 IB (2)	3 IB (1)	3 IB (2)	4 IB (1)	4 IB (2)	5 IB (1)	5 IB (2)	6 IB (1)	6 IB (2)	7 IB (1)	7 IB (2)	8 IB (1)	8 IB (2)	9 IB (1)	9 IB (2)	10 IB (1)	10 IB (2)	11 IB (1)	11 IB (2)	12 IB (1)	12 IB (2)	13 IB (1)	13 IB (2)	14 IB (1)	14 IB (2)	IB 15 (1)
G3	(56.03)	55.83	55.80	55.56	55.54	55.32	55.30	55.06	55.04	54.80	54.78	54.54	54.52	54.28	54.26	54.02	54.00	53.77	53.75	53.53	53.46	53.23	53.26	53.10	53.10	53.00	53.01	52.91
T20	(56.16)	55.93	55.91	55.66	55.64	55.43	55.41	55.17	55.15	54.90	54.88	54.64	54.62	54.39	54.37	54.12	54.10	53.88	53.86	53.62	53.56	53.33	53.36	53.19	53.19	53.05	53.07	52.94
T21	(56.46)	56.23	56.20	55.95	55.93	55.73	55.71	55.47	55.45	55.20	55.18	54.94	54.92	54.68	54.66	54.42	54.40	54.17	54.15	53.93	53.86	53.63	53.66	53.47	53.47	53.28	53.30	53.11
T22	(56.75)	56.52	56.52	56.27	56.25	56.05	56.03	55.79	55.77	55.53	55.51	55.27	55.25	55.01	54.99	54.75	54.73	54.49	54.47	54.25	54.19	53.96	53.99	53.77	53.76	53.53	53.53	53.30
T23	(57.05)	56.82	56.81	56.56	56.54	56.35	56.33	56.09	56.07	55.83	55.81	55.57	55.55	55.31	55.29	55.04	55.02	54.80	54.78	54.55	54.48	54.25	54.28	54.04	54.03	53.75	53.75	53.47
T24	(57.34)	57.12	57.11	56.87	56.85	56.66	56.64	56.40	56.38	56.13	56.11	55.87	55.85	55.61	55.59	55.34	55.32	55.10	55.08	54.85	54.78	54.55	54.58	54.31	54.30	53.96	53.96	53.64
T25	(57.62)	57.41	57.40	57.16	57.14	56.95	56.93	56.69	56.67	56.42	56.40	56.16	56.14	55.90	55.88	55.64	55.61	55.38	55.36	55.13	55.07	54.84	54.87	54.57	54.55	54.17	54.17	53.79
T26	(57.92)	57.70	57.69	57.47	57.45	57.24	57.22	56.98	56.96	56.71	56.69	56.45	56.43	56.19	56.17	55.92	55.90	55.68	55.66	55.43	55.36	55.13	55.16	54.85	54.82	54.39	54.38	53.96
T27	(58.21)	57.99	57.99	57.78	57.76	57.53	57.51	57.27	57.25	57.00	56.98	56.74	56.72	56.48	56.46	56.21	56.19	55.96	55.94	55.71	55.65	55.42	55.45	55.11	55.08	54.60	54.59	54.12
T28	(58.51)	58.29	58.28	58.07	58.05	57.81	57.79	57.55	57.53	57.29	57.27	57.03	57.01	56.76	56.74	56.50	56.48	56.25	56.23	56.00	55.93	55.70	55.73	55.37	55.34	54.81	54.79	54.27
T29	(58.80)	58.59	58.59	58.38	58.36	58.11	58.09	57.85	57.83	57.58	57.56	57.32	57.30	57.06	57.04	56.79	56.77	56.54	56.52	56.30	56.23	56.00	56.03	55.64	55.61	55.03	55.01	54.44
T30	(59.10)	58.89	58.88	58.67	58.65	58.39	58.37	58.13	58.11	57.86	57.84	57.60	57.58	57.34	57.32	57.08	57.05	56.82	56.80	56.58	56.52	56.29	56.31	55.91	55.87	55.24	55.22	54.60
T31	(59.40)	59.20	59.19	58.97	58.95	58.68	58.66	58.42	58.40	58.15	58.13	57.89			57.61	57.37												

Existing Pier #4
Proj. No. I-HI-1(73):15

℄ EXIST'G PIER LOCATION #4 / GIRDER OR TEE Nº	(VERIFY) EXISTING SEAT LINE (2)	2 IB (1)	2 IB (2)	3 IB (1)	3 IB (2)	4 IB (1)	4 IB (2)	5 IB (1)	5 IB (2)	6 IB (1)
T31e									58.69	58.43
T32	(59.70)	59.49	59.49	59.26	59.24	58.97	58.95	58.71		
T32c									58.90	58.60
T32f							59.25	58.99		
T32g			59.80	59.55						
T32j									59.12	58.78
T33	(60.00)	59.79								
T33a					59.52	59.26				
T33c							59.48	59.16		
T33d			60.02	59.73						
T33e									59.31	58.95
T33f					59.83	59.52				
T33g	(60.26)	60.05								
T34a			60.24	59.92						
T34b							59.60	59.34		
T34c	(60.47)	60.23								
T34d					60.07	59.72				
T34e			60.44	60.09						
T35a	(60.71)	60.45								
G4	(60.01)	60.75	60.74	60.30	60.37	60.02	59.99	59.64	59.61	59.26

LOCATION / GIRDER OR TEE Nº	6 IB (2)	7 IB (1)	7 IB (2)	8 IB (1)	8 IB (2)	9 IB (1)	9 IB (2)	10 IB (1)	10 IB (2)	11 IB (1)
T30a									57.08	56.84
T30b			57.88	57.62						
T30c							57.36	57.11		
T31a									57.26	56.99
T31b							57.58	57.29		
T31c			58.10	57.81						
T31d					57.90	57.62				
T31f	58.43	58.16								
T31k									57.45	57.17
T32a			58.32	57.99						
T32b							57.78	57.47		
T32d	58.68	58.35								
T32e					58.15	57.81				
T32h			58.53	58.18						
T33b	58.92	58.56								
G4	59.22	58.86	58.83	58.48	58.45	58.11	58.08	57.77	57.75	57.46

NOTE: For additional concrete seat details, refer to Sht. #49, #50.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE NOV. 1978
	DRAWN BY MA	"
NOTE BOOK	TRACED BY	"
	DESIGNED BY D&O	"
No.	QUANTITIES BY	"
	CHECKED BY DGO, EG	"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

PIER FRAME CAP-GIRDER & TEE CONCRETE SEAT ELEVATION SCHEDULE

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16
SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 50 OF 77 SHEETS

GIRDER OR TEE - TOP CONCRETE SEAT ELEVATION SCHEDULE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	154	236

LOCATION / GIRDER OR TEE №	15 IB	16 IB		17 IB		18 IB		19 IB		20 IB		21 IB		22 IB		23 IB		24 IB		25 IB		26 IB		27 IB	
	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
G3	52.92	52.85	52.85	52.79	52.79	52.74	52.74	52.70	52.69	52.63	52.59	52.47	52.49	52.37	52.36	52.24	52.23	52.11	52.10	51.98	51.97	51.85	51.81	51.68	51.65
T20	53.00	52.89	52.90	52.80	52.82	52.73	52.75	52.65	52.63	52.56	52.51	52.37	52.39	52.27	52.26	52.14	52.13	52.01	52.00	51.88	51.87	51.75	51.70	51.58	51.54
T21	53.16	53.00	53.01	52.86	52.88	52.74	52.75	52.62	52.59	52.49	52.43	52.29	52.30	52.19	52.18	52.06	52.05	51.93	51.92	51.80	51.79	51.67	51.62	51.50	51.46
T22	53.33	53.12	53.13	52.93	52.94	52.76	52.76	52.59	52.55	52.40	52.34	52.21	52.22	52.10	52.09	51.97	51.96	51.85	51.83	51.72	51.71	51.59	51.54	51.41	51.37
T23	53.49	53.24	53.24	53.00	53.00	52.77	52.78	52.54	52.51	52.32	52.26	52.12	52.13	52.01	52.00	51.88	51.87	51.75	51.74	51.62	51.61	51.49	51.45	51.32	51.28
T24	53.65	53.35	53.35	53.06	53.06	52.78	52.78	52.50	52.46	52.24	52.17	52.02	52.04	51.92	51.91	51.79	51.78	51.66	51.65	51.53	51.52	51.40	51.35	51.23	51.19
T25	53.81	53.45	53.45	53.11	53.10	52.78	52.78	52.45	52.40	52.14	52.08	51.92	51.93	51.82	51.81	51.69	51.68	51.56	51.55	51.43	51.42	51.30	51.25	51.13	51.09
T26	53.97	53.57	53.56	53.17	53.16	52.78	52.77	52.40	52.35	52.04	51.98	51.83	51.84	51.72	51.71	51.59	51.58	51.47	51.45	51.34	51.33	51.21	51.16	51.03	50.99
T27	54.12	53.67	53.66	53.22	53.21	52.79	52.78	52.35	52.29	51.95	51.88	51.73	51.74	51.62	51.61	51.49	51.48	51.36	51.35	51.23	51.22	51.10	51.06	50.93	50.89
T28	54.27	53.79	53.77	53.27	53.26	52.79	52.77	52.29	52.24	51.86	51.79	51.62	51.64	51.52	51.51	51.39	51.38	51.26	51.25	51.13	51.12	51.00	50.95	50.83	50.79
T29	54.44	53.89	53.87	53.33	53.31	52.79	52.77	52.25	52.19	51.77	51.69	51.53	51.54	51.43	51.42	51.30	51.29	51.17	51.16	51.04	51.03	50.91	50.86	50.73	50.69
T30	54.59	53.99	53.97	53.39	53.36	52.79	52.76	52.20	52.13	51.67	51.60	51.43	51.44	51.29	51.28	51.19	51.18	51.07	51.05	50.94	50.93	50.81	50.76	50.63	50.59
T31	54.75	54.11	54.08	53.45	53.42	52.79	52.77	52.15	52.08	51.58	51.51	51.34	51.35	51.23	51.22	51.10	51.09	50.97	50.96	50.84	50.83	50.71	50.67	50.53	50.49
T32	54.91	54.22	54.19	53.51	53.48	52.81	52.78	52.12	52.04	51.51	51.43	51.25	51.27	51.15	51.14	51.02	51.01	50.89	50.88	50.76	50.75	50.63	50.58	50.45	50.41
G4	55.09	54.36	54.31	53.59	53.54	52.84	52.78	52.09	52.02	51.46	51.39	51.21	51.22	51.11	51.10	50.98	50.97	50.85	50.84	50.72	50.71	50.59	50.55	50.41	50.39

LOCATION / GIRDER OR TEE №	11 IB	12 IB		13 IB		14 IB		15 IB
	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)
T30d			56.60	56.17	56.13	55.45		
T30e	56.81	56.57						
T30f							55.43	54.77
T31g			56.89	56.43	56.39	55.67		
T31h	57.10	56.86						
T31j							55.63	54.93
G4	57.43	57.19	57.18	56.71	56.66	55.90	55.88	55.14

NOTE: Refer to Sht. #49, #50 for additional concrete seat details.

ORIGINAL PLAN	SURVEY PLOTTED BY: DATE: NOV. '78
NOTE BOOK	DRAWN BY: " " " " "
No.	TRACED BY: " " " " "
	DESIGNED BY: FK " " "
	QUANTITIES BY: DCQ, EG " " "
	CHECKED BY: " " "

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PIER FRAME CAP-GIRDER & TEE CONCRETE SEAT ELEVATION SCHEDULE

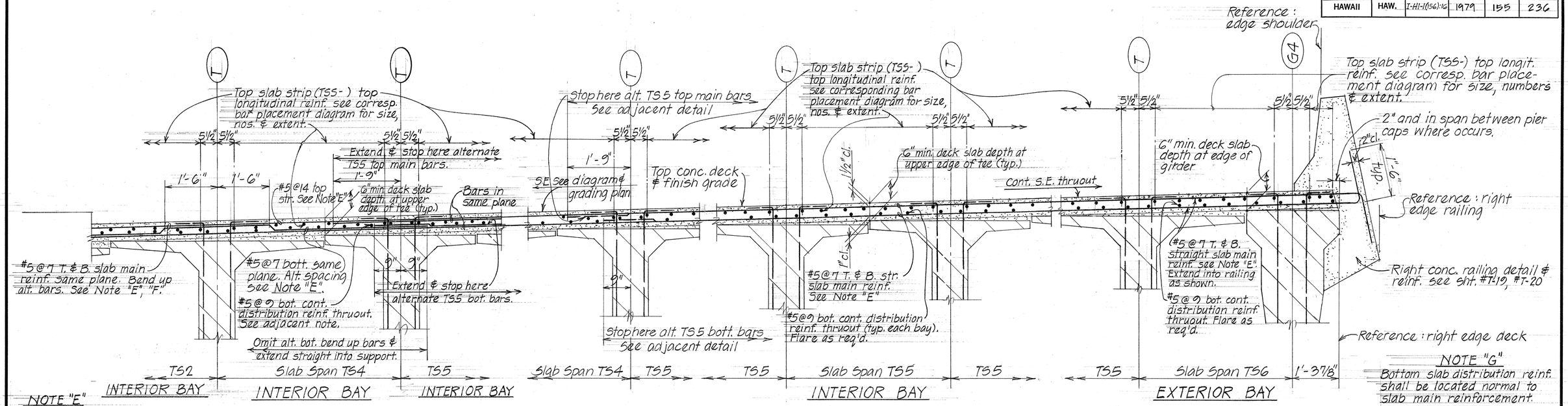
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 60 OF 77 SHEETS

K+E TRACING PAPER

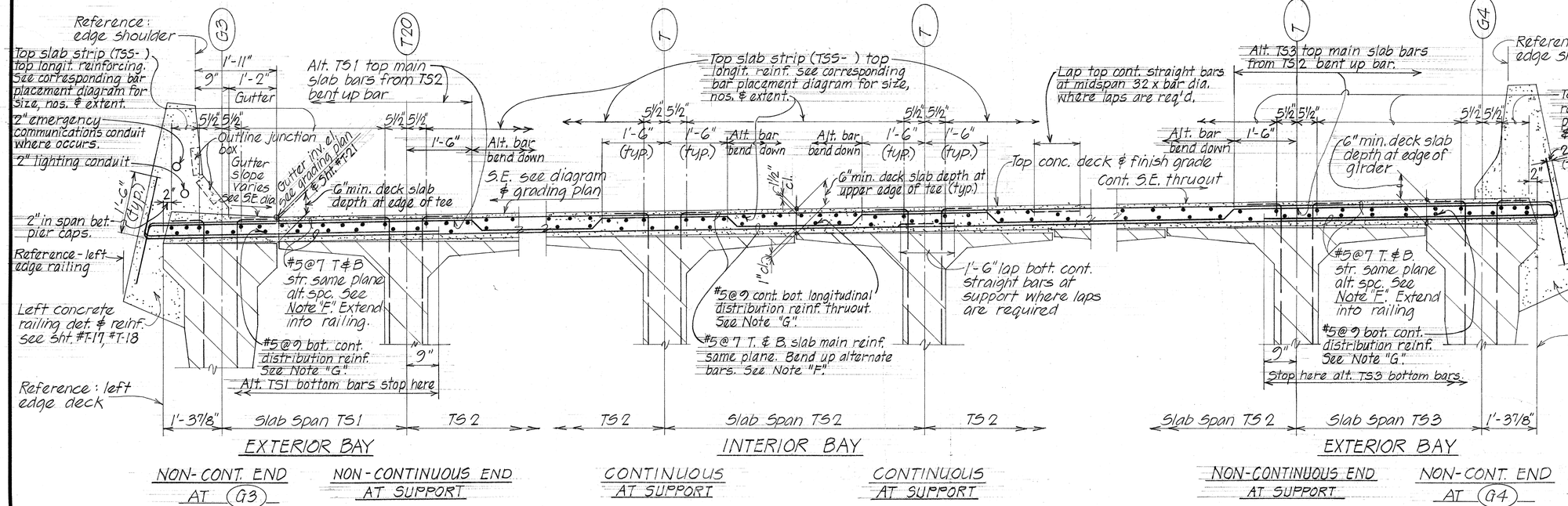
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156)16	1979	155	236



NOTE "E"
Continue top & bottom transverse main deck slab reinforcement TS4, TS5, TS6 in same direction as adjacent TS2 thruout.

NOTE "G"
Bottom slab distribution reinf. shall be located normal to slab main reinforcement.

TYPICAL TRANSVERSE DECK SLAB SECTION - TS4, TS5, TS6



TYPICAL TRANSVERSE DECK SLAB SECTION - TS1, TS2, TS3

ORIGINAL PLAN		
	SURVEY PLOTTED BY	GH
	DRAWN BY	DCO
	TRACED BY	
NOTE BOOK	DESIGNED BY	KM
No.	QUANTITIES BY	GC, EC
	CHECKED BY	DCO, EC
	DATE	NOV.'78

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

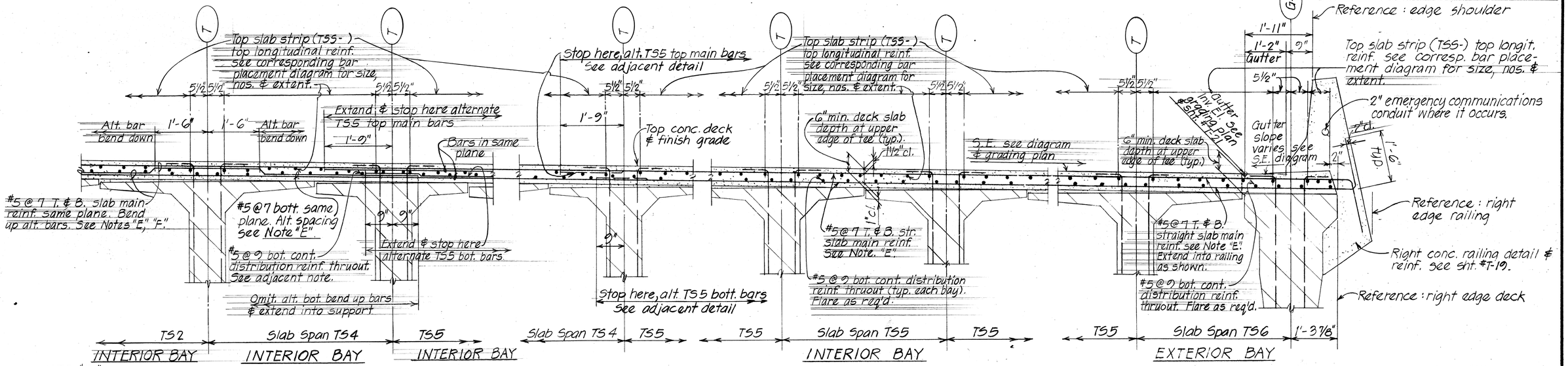
TYPICAL DECK SLAB SECTION

F.B. I.B. STA. 115+19.89 TO STA. 130+45.00

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16
SCALE: NO SCALE DATE: NOV. 1978

SHEET NO. 61 OF 77 SHEETS

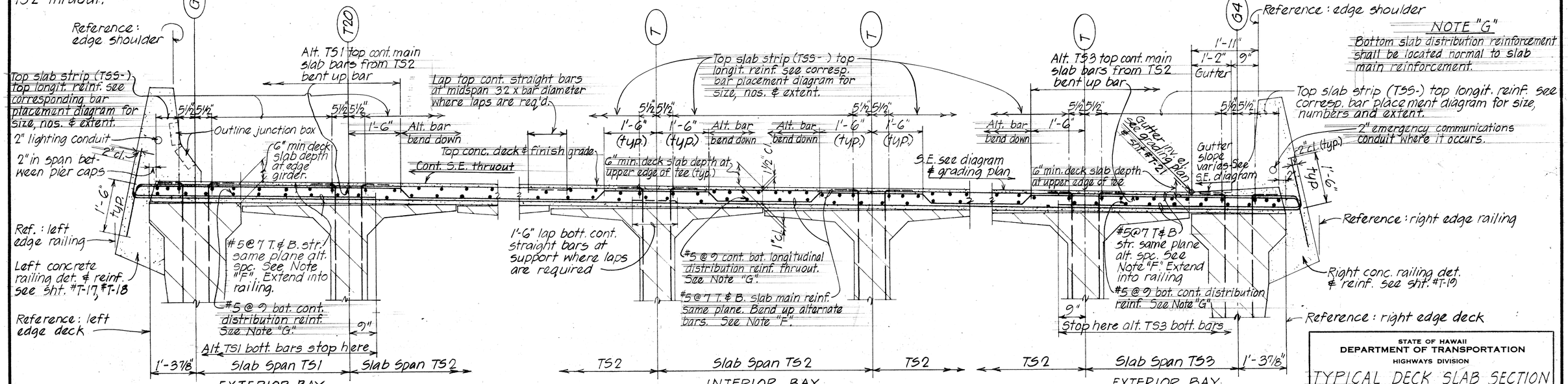
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-(156)16	1979	156	236



NOTE "E"
Continue top & bottom transverse main deck slab reinforcement TS4, TS5, TS6 in same direction as adjacent TS2 thruout.

NOTE "F"
Top & bottom main transverse deck slab reinforcement TS1, TS2, TS3 shall be located normal to and measured along adjacent Tee or Girder.

TYPICAL TRANSVERSE DECK SLAB SECTION - TS4, TS5, TS6



NOTE "G"
Bottom slab distribution reinforcement shall be located normal to slab main reinforcement.

TYPICAL TRANSVERSE DECK SLAB SECTION - TS1, TS2, TS3

ORIGINAL PLAN	NOTE BOOK	No.	SURVEY PLOTTED BY	DRAWN BY	TRACED BY	DESIGNED BY	QUANTITIES BY	CHECKED BY	DATE
			G.U.	D.C.Q.	"	G.T.	K.K.M.	D.C.Q.	NOV. '78
			"	"	"	"	"	F.C.	"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DECK SLAB SECTION

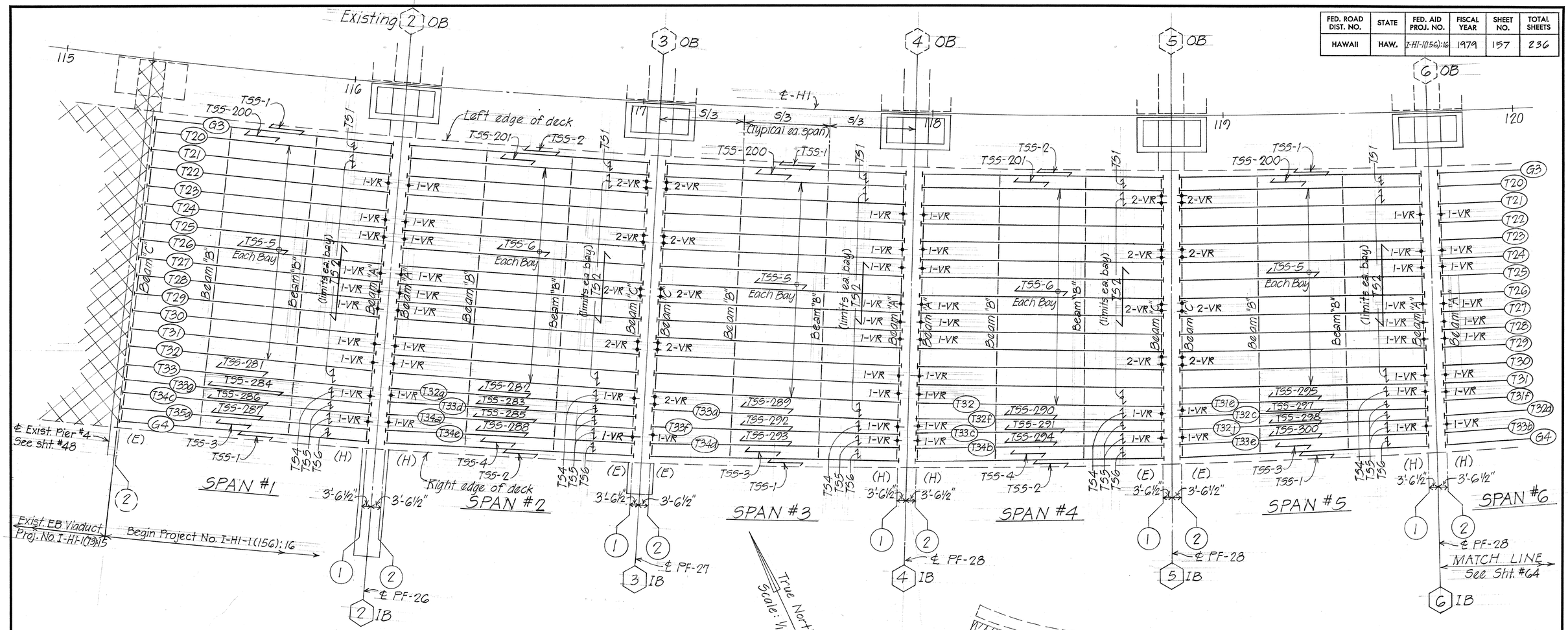
ID. I.B. STA. 130+45.00 TO STA. 138+28.75

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156)16

SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 62 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	157	236



NOTES:

① TS-1 — Denotes direction of Typical Slab (TS-) transverse main deck reinforcement each span thruout. Bar spacing of top and bottom transverse main deck slab reinforcement - see Note "E", "F" Sht. #61, #62.

② TSS- — Denotes extent of Top Slab Strip Type (TSS-), between girders each bay. Refer to Typical Deck Slab Sections Sht. #61, #62. and corresponding Bar Placement Diagram for size & nos.

③ Refer to Sht. #67 thru #69 incl. for Prestressed Girder & Tee Type Location Schedules.

④ 1-VR: One Vertical Restrainer } For typical location & details, see
2-VR: Two Vertical Restrainer } Sht. Nos T-14, T-15 & T-29.

ORIGINAL PLAN		
NOTE BOOK		
No.		
SURVEY PLOTTED BY		
DRAWN BY	GZ	LN
TRACED BY		
DESIGNED BY	DCO	EK
QUANTITIES BY	KM	GZ
CHECKED BY	DCO	EC
DATE	NOV. '78	"
	"	"
	"	"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PART DECK FRAMING PLAN

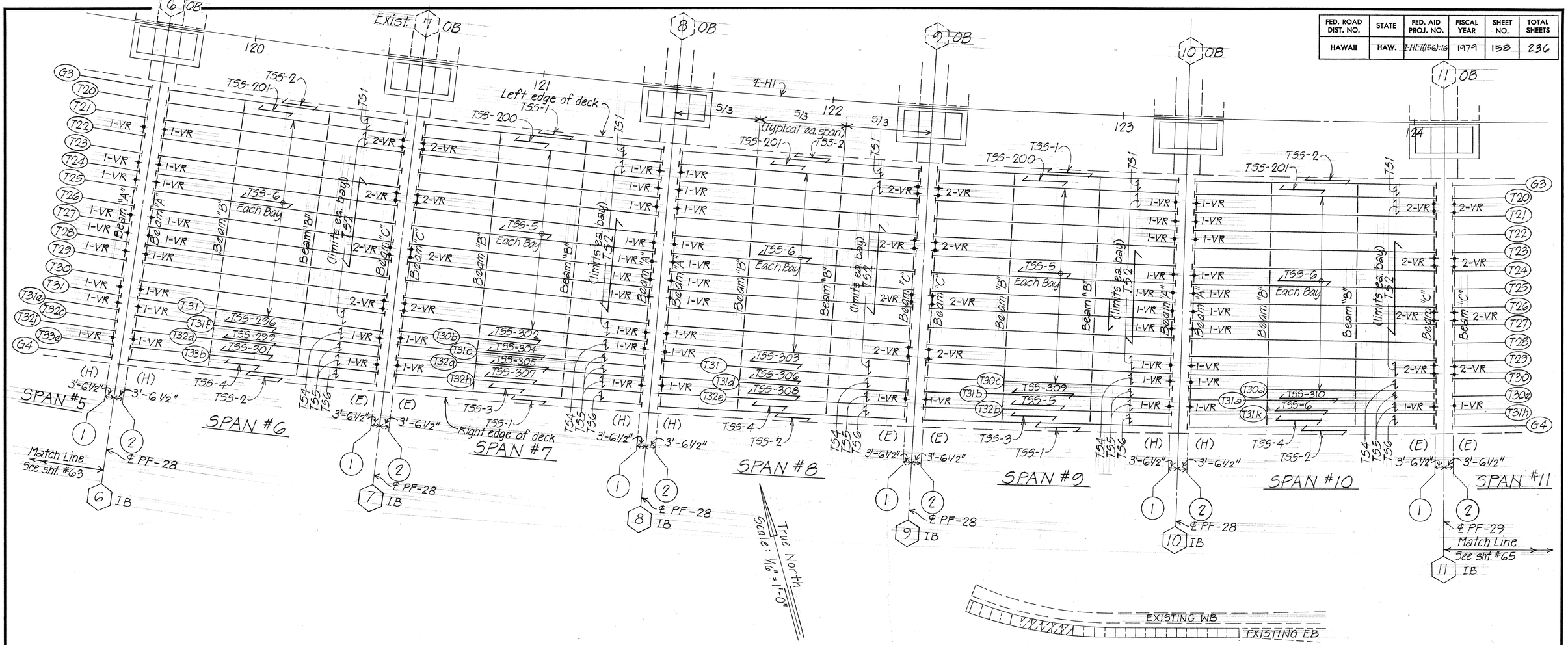
℄ I.B STA. 115+19.89 TO STA. 119+61.83

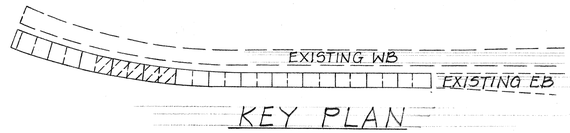
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: 1/16" = 1'-0" DATE: NOV. 1978

SHEET No. 63 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	158	236





KEY PLAN

NOTE: For additional notes refer to sht. #63

ORIGINAL PLAN	SURVEY PLOTTED BY: L.N. DATE: NOV. '78
	DRAWN BY: " " " "
NOTE BOOK	TRACED BY: " " " "
	DESIGNED BY: DCD FK LM
No.	QUANTITIES BY: " " " "
	CHECKED BY: DCD FC

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

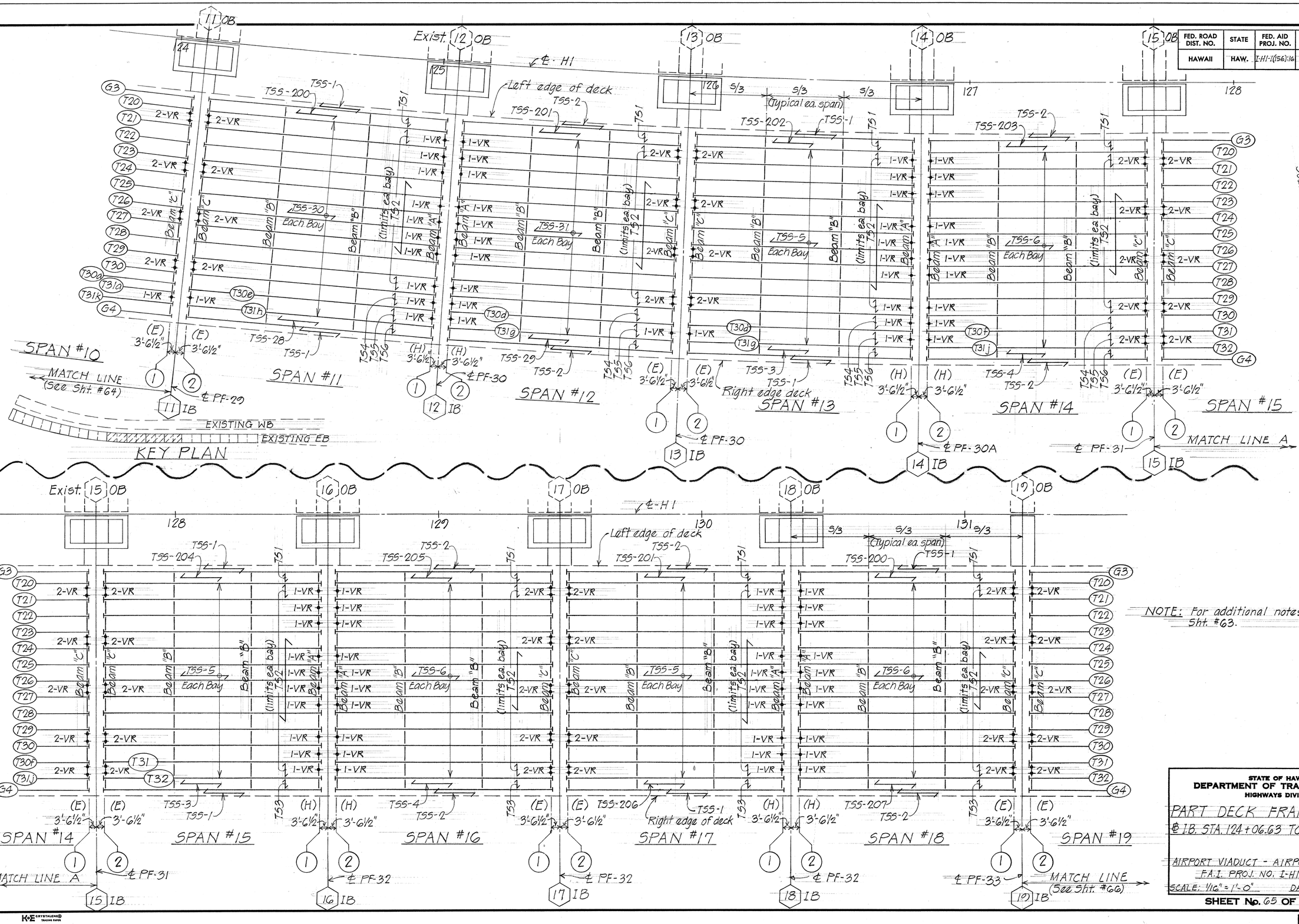
PART DECK FRAMING PLAN
℄ I.B. STA. 119+61.83 TO STA. 124+06.63

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16
SCALE: 1/16" = 1'-0" DATE: NOV. 1978

SHEET No. 64 OF 77 SHEETS

K+E CRYSTALENE® TRACING PAPER

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	159	236



NOTE: For additional notes refer to Sht. #63.

ORIGINAL PLAN	SURVEY PLOTTED BY	GU LN
	DRAWN BY	DCO FK
	TRACED BY	" "
NOTE BOOK	DESIGNED BY	TSM GT
No.	QUANTITIES BY	DCO FC
	CHECKED BY	DCO FC
	DATE	NOV. 1978

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

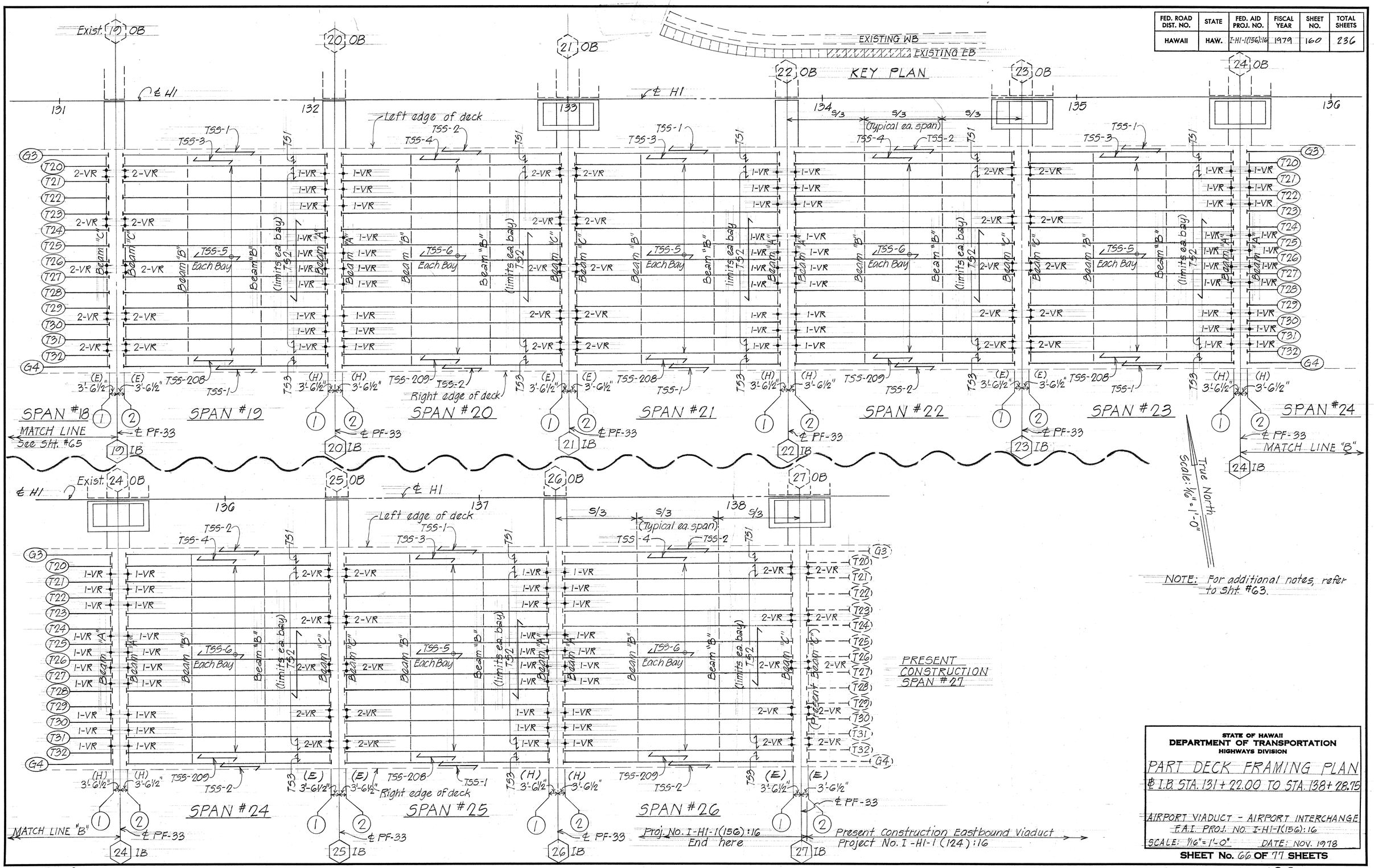
PART DECK FRAMING PLAN

℄ I.B. STA. 124+06.63 TO STA. 131+22.00

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156): 16
SCALE: 1/16" = 1'-0" DATE: NOV. 1978

SHEET No. 65 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	160	236



NOTE: For additional notes, refer to Sht. #63.

ORIGINAL PLAN			
NOTE BOOK			
No.			
SURVEY PLOTTED BY			
DRAWN BY	SY	GU	FK
TRACED BY			
DESIGNED BY	VC	FK	
QUANTITIES BY	GT	LM	
CHECKED BY	DCC	EC	
DATE	NOV. '78		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PART DECK FRAMING PLAN

℄ I.B. STA. 131+22.00 TO STA. 138+28.75

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16
SCALE: 1/16"=1'-0" DATE: NOV. 1978

SHEET No. 66 OF 77 SHEETS

PRESTRESSED GIRDER AND TEE TYPE LOCATION SCHEDULE — INBOUND

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	161	236

LOCATION / TEE AND GIRDER NUMBER	℄ Exist. Pier #4	2 IB	3 IB	4 IB	5 IB	6 IB	7 IB	8 IB	9 IB	10 IB	11 IB	12 IB	IB 13
	END DETAIL AT SPAN Nº 1 (Refer to Plan Sht #48)	SPAN Nº 2	SPAN Nº 3	SPAN Nº 4	SPAN Nº 5	SPAN Nº 6	SPAN Nº 7	SPAN Nº 8	SPAN Nº 9	SPAN Nº 10	SPAN Nº 11	SPAN Nº 12	
G3	B 67T-9	PG-6	PG-6	PG-6	PG-6	PG-6	PG-6	PG-6	PG-6	PG-6	PG-5	PG-6	
T 20	Do.	PT-50	PT-50a	PT-50	PT-50a	PT-50	PT-50	PT-50a	PT-50	PT-50a	PT-1	PT-50a	
T 21	Do.	Do.	PT-50	Do.	PT-50	Do.	Do.	PT-50	Do.	PT-50	Do.	PT-50	
T 22	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	
T 23	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	
T 24	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	
T 25	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	
T 26	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	
T 27	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	
T 28	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	
T 29	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	
T 30	Do.	Do.	Do.	Do.	Do.	Do.	B 67T-9	PT-50	B 67T-9	Do.	B 67T-9	PT-50	B 67T-9
T 31	B 67T-9	PT-50	B 67T-9	PT-50	B 67T-9	PT-50		B 67T-9	PT-50	B 67T-9			

LOCATION / TEE AND GIRDER NUMBER	IB 13	14 IB	15 IB
	END DETAIL AT SPAN Nº 13	SPAN Nº 14	
G3	B 67T-9	PG-6	B 67T-9
T 20	Do.	PT-50a	Do.
T 21	Do.	PT-50	Do.
T 22	Do.	Do.	Do.
T 23	Do.	Do.	Do.
T 24	Do.	Do.	Do.
T 25	Do.	Do.	Do.
T 26	Do.	Do.	Do.
T 27	Do.	Do.	Do.
T 28	Do.	Do.	Do.
T 29	Do.	Do.	Do.
T 30	B 67T-9	PT-50	B 67T-9

LOCATION / TEE AND GIRDER NUMBER	IB 15	16 IB	17 IB	18 IB	19 IB	20 IB	21 IB
	END DETAIL AT SPAN Nº 15	SPAN Nº 16	SPAN Nº 17	SPAN Nº 18	SPAN Nº 19	SPAN Nº 20	
G3	C 67T-9	PG-4	C 67T-9	C 67T-9	PG-4	C 67T-9	C 67T-9
T 20	Do.	PT-6a	Do.	Do.	PT-6	Do.	Do.	PT-5	Do.
T 21	Do.	PT-6	Do.	Do.	PT-6	Do.	Do.	Do.	Do.
T 22	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.
T 23	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.
T 24	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.
T 25	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.
T 26	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.
T 27	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.
T 28	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.
T 29	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.
T 30	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.
T 31	Do.	Do.	Do.	Do.	PT-6	Do.	Do.	PT-5	Do.
T 32	Do.	PT-6	Do.	Do.	PT-6a	Do.	Do.	PT-5a	Do.
G4	C 67T-9	PG-4	C 67T-9	C 67T-9	PG-4	C 67T-9	C 67T-9	PG-3	C 67T-9

NOTES:

Refer to Sht. #70, #71, for prestressed girder & tee type schedules.

Refer to Typical Drawings #T-9 thru #T-13 incl. for additional prestressed girder details.

ORIGINAL PLAN	SURVEY PLOTTED BY	LN	DATE	NOV. '78
	DRAWN BY	MA	"	"
NOTE BOOK	TRACED BY		"	"
No.	DESIGNED BY	DCO	"	"
	QUANTITIES BY	EK	"	"
	CHECKED BY	DCO	"	"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PART PRESTRESSED GIRDER & TEE TYPE LOCATION SCHEDULES

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 67 OF 77 SHEETS

PART PRESTRESSED GIRDER AND TEE TYPE LOCATION SCHEDULE – INBOUND

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	162	236

TEE AND GIRDER NUMBER	℄ Exist. Pier #4	IB 2			IB 3			IB 4			IB 5			IB 6
	END DETAIL AT	SPAN Nº 1			SPAN Nº 2			SPAN Nº 3			SPAN Nº 4			SPAN Nº 5	
	2	TYPE	1	2	TYPE	1	2	TYPE	1	2	TYPE	1	2	TYPE	1
T31e													A 68T-9	PTT-94	A 68T-9
T32	B 68T-9	PT-50	B 68T-9	B 68T-9	PT-50	B 68T-9	B 68T-9	PT-50	B 68T-9	B 68T-9	PT-50	B 68T-9			
T32c													A 68T-9	PTT-94	A 68T-9
T32f										A 68T-9	PTT-93	A 68T-9			
T32g				A 68T-9	PTT-91	A 68T-9									
T32j													A 68T-9	PTT-94	A 68T-9
T33	B 68T-9	PT-5	B 68T-9												
T33a							B 68T-9	PT-5	B 68T-9						
T33c										A 68T-9	PTT-93	A 68T-9			
T33d				A 68T-9	PTT-91	A 68T-9									
T33e													B 68T-9	PT-5	B 68T-9
T33f							A 68T-9	PTT-92	A 68T-9						
T33g	A 68T-9	PTT-90	A 68T-9												
T34a				A 68T-9	PTT-91	A 68T-9									
T34b										B 68T-9	PT-5	B 68T-9			
T34c	A 68T-9	PTT-90	A 68T-9												
T34d							B 68T-9	PT-5	B 68T-9						
T34e				B 68T-9	PT-5	B 68T-9									
T35a	B 68T-9	PT-5	C 68T-9												
G4	B 68T-9	PG-3	C 68T-9	B 68T-9	PG-3	B 68T-9	B 68T-9	PG-3	B 68T-9	B 68T-9	PG-3	B 68T-9	B 68T-9	PG-3	B 68T-9

TEE AND GIRDER NUMBER	IB 6	IB 7			IB 8			IB 9			IB 10			IB 11
	END DETAIL AT	SPAN Nº 6			SPAN Nº 7			SPAN Nº 8			SPAN Nº 9			SPAN Nº 10	
	2	TYPE	1	2	TYPE	1	2	TYPE	1	2	TYPE	1	2	TYPE	1
T30a													A 68T-9	PTT-97	A 68T-9
T30b				A 68T-9	PTT-96	A 68T-9									
T30c										A 68T-9	PTT-98	A 68T-9			
T31a													A 68T-9	PTT-97	A 68T-9
T31b										A 68T-9	PTT-98	A 68T-9			
T31c				A 68T-9	PTT-96	A 68T-9									
T31d							A 68T-9	PTT-97	A 68T-9						
T31f	A 68T-9	PTT-95	A 68T-9												
T31k													B 68T-9	PT-50	C 68T-9
T32a				A 68T-9	PTT-96	A 68T-9									
T32b										B 68T-9	PT-5	B 68T-9			
T32d	A 68T-9	PTT-95	A 68T-9												
T32e							B 68T-9	PT-5	B 68T-9						
T32h				B 68T-9	PT-5	B 68T-9									
T33b	B 68T-9	PT-5	B 68T-9												
G4	B 68T-9	PG-3	B 68T-9	B 68T-9	PG-3	B 68T-9	B 68T-9	PG-3	B 68T-9	B 68T-9	PG-3	B 68T-9	B 68T-9	PG-3	C 68T-9

NOTE: For additional notes, refer to Sht. #67.

TEE AND GIRDER NUMBER	IB 11	IB 12			IB 13			IB 14			IB 15
	END DETAIL AT	SPAN Nº 11			SPAN Nº 12			SPAN Nº 13			SPAN Nº 14		
	2	TYPE	1	2	TYPE	1	2	TYPE	1	2	TYPE	1	
T30d				B 68T-9	PT-51	B 68T-9	B 68T-9	PT-51	B 68T-9				
T30e	A 68T-9	PTT-100	A 68T-9										
T30f										A 68T-9	PTT-101	A 68T-9	
T31g				B 68T-9	PT-50	B 68T-9	B 68T-9	PT-50	B 68T-9				
T31h	B 68T-9	PT-1	B 68T-9										
T31j										B 68T-9	PT-50	B 68T-9	
G4	B 68T-9	PG-1	B 68T-9	B 68T-9	PG-3	B 68T-9	B 68T-9	PG-3	B 68T-9	B 68T-9	PG-4	B 68T-9	

SURVEY PLOTTED BY	DATE NOV. '78
DRAWN BY LMA	LN
TRACED BY	DCO FK
DESIGNED BY	
QUANTITIES BY	DCO, FC
CHECKED BY	
NOTE BOOK	
No.	

ORIGINAL PLAN

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PART PRESTRESSED GIRDER & TEE TYPE LOCATION SCHEDULES

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 68 OF 77 SHEETS

162

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	163	236

PART PRESTRESSED GIRDER AND TEE TYPE LOCATION SCHEDULE - INBOUND

TEE AND GIRDER NUMBER \ LOCATION	IB (21)	END DETAIL AT	(22) IB				(23) IB				(24) IB				(25) IB				(26) IB				(27)
	SPAN Nº 21		SPAN Nº 22				SPAN Nº 23				SPAN Nº 24				SPAN Nº 25				SPAN Nº 26				
	(2)	TYPE	(1)	(2)	TYPE	(1)	(2)	TYPE	(1)	(2)	TYPE	(1)											
G3	C (2) (1-2)	PG-4	C (2) (1-2)	C (2) (1-2)	PG-4	C (2) (1-2)	C (2) (1-2)	PG-4	C (2) (1-2)	C (2) (1-2)	PG-4	C (2) (1-2)	C (2) (1-2)	PG-4	C (2) (1-2)	C (2) (1-2)	PG-4	C (2) (1-2)	C (2) (1-2)	PG-2	C (2) (1-2)		
T20	Do.	PT-6	Do.	Do.	PT-6	Do.	Do.	PT-6	Do.	Do.	PT-6	Do.	Do.	PT-6	Do.	Do.	PT-2	Do.					
T21	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.					
T22	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.					
T23	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.					
T24	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.					
T25	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.					
T26	Do	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do	Do.					
T27	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.					
T28	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.					
T29	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.					
T30	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.	Do.					
T31	Do.	PT-6	Do.	Do.	PT-6	Do.	Do.	PT-6	Do.	Do.	PT-6	Do.	Do.	PT-6	Do.	Do.	PT-2	Do.					
T32	Do.	PT-6a	Do.	Do.	PT-6a	Do.	Do.	PT-6a	Do.	Do.	PT-6a	Do.	Do.	PT-6a	Do.	Do.	PT-2a	Do					
G4	C (2) (1-2)	PG-4	C (2) (1-2)	C (2) (1-2)	PG-4	C (2) (1-2)	C (2) (1-2)	PG-4	C (2) (1-2)	C (2) (1-2)	PG-4	C (2) (1-2)	C (2) (1-2)	PG-4	C (2) (1-2)	C (2) (1-2)	PG-4	C (2) (1-2)	C (2) (1-2)	PG-2	C (2) (1-2)		

NOTE: For additional notes, refer to sht. #67.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE NOV. '78
NOTE BOOK	DRAWN BY LMA	"
No.	TRACED BY	"
	DESIGNED BY DCO	"
	QUANTITIES BY	"
	CHECKED BY DCO, FC	"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

PART PRESTRESSED GIRDER & TEE TYPE LOCATION SCHEDULES

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 69 OF 77 SHEETS

PRESTRESSED GIRDER TYPE SCHEDULE (PG-)

TYPE	SCHEDULED TOP FLANGE WIDTH PIER LINE ⬡ NUMERAL	REFERENCE DIAGRAM NO.	WORKING FORCES P_F (Kips)	END-AT MASKED STRANDS: WORKING FORCES (Kips) $P_F M_2$	$P_F M_1$	MASK LENGTH ML_2	ML_1	LOCATION	CENTER OF GRAVITY WORKING FORCES DIMENSIONS "n"	"q"	"m"	"k"	"g"	"f"	"h"	"j"	STIRRUP SIZE	STIRRUP TYPE	STIRRUP SPACING - (MEASURED FROM END SUPPORT TOWARD CENTER) EXPANSION (E)	HINGED (H)	f'ci (Psi) AT STRAND RELEASE	REMARKS
PG-1	2'-8"	B 70 T-10	1,307.60		1,074.10		14'-8"	EXP. END	23 13/16"	28 3/16"			32"		18 15/16"	9'-6"	#5	⊔	5@3;	15@3;	4,000	
				1,074.10	887.30	9'-2"	5'-6"	HINGED END	23 13/16"	28 3/16"	30 9/16"	35 1/2"	37 3/16"				#4	⊔	Bal. - 8@3; 15@4; 7@5; 8@6; 6@9; Rest @ 10	Bal. - 12@3; 13@4; 7@5; 9@6; 6@9; Rest @ 10		
PG-2	2'-8"	B 70 T-10	1,214.20		1,027.40		14'-0"	EXP. END	24 1/8"	27 15/16"			31 5/8"		19 3/16"	9'-0"	#5	⊔	5@3;	13@3;	4,000	
				1,027.40	840.60	9'-0"	5'-0"	HINGED END	24 1/8"	27 15/16"	30 5/16"	35 9/16"	37 3/16"				#4	⊔	Bal. - 8@3; 12@4; 7@5; 8@6; 6@9; Rest @ 10	Bal. - 12@3; 12@4; 7@5; 8@6; 6@9; Rest @ 10		
PG-3	2'-8"	A 70 T-10	1,120.80					EXP. END						26 15/16"	18 7/16"	8'-6"	#5	⊔	5@3;	9@3;	4,000	
				934.00	747.20	8'-5"	5'-0"	HINGED END	23 9/16"	27 5/8"	30 3/16"	36 1/4"	37 7/8"				#4	⊔	Bal. - 9@4; 9@5; 12@6; 4@9; Rest @ 10	Bal. - 12@3; 15@4; 7@5; 6@6; 5@9; Rest @ 10		
PG-4	2'-8"	A 70 T-10	1,074.10					EXP. END						28 5/8"	20 3/8"	8'-0"	#5	⊔	5@3;	5@3	4,000	
				887.30	793.90	7'-8"	5'-0"	HINGED END	25 7/16"	30 1/8"	32 7/16"	35 9/16"	37 1/4"				#4	⊔	Bal. - 3@4; 8@5; 12@6; 5@9; Rest @ 10	Bal. - 12@3; 15@4; 7@5; 6@6; 4@9; Rest @ 10		
PG-5	2'-8"	B 70 T-10	1,214.20		1,027.40		14'-0"	EXP. END	23 7/16"	27 1/8"			30 13/16"		18 1/2"	9'-0"	#5	⊔	9@3;	19@3;	4,000	
				1,027.40	793.90	9'-0"	5'-0"	HINGED END	23 7/16"	27 1/8"	29 1/2"	36 1/8"	37 13/16"				#4	⊔	Bal. - 24@3; 12@4; 5@5; 12@6; 5@9; Rest @ 10	Bal. - 24@3; 9@4; 9@5; 12@6; 5@9; Rest @ 10		
PG-6	2'-8"	A 70 T-10	1,120.80					EXP. END						29 1/16"	21 3/16"	8'-0"	#5	⊔	4@3;	16@3	4,000	
				934.00	840.60	7'-8"	5'-0"	HINGED END	26 1/16"	30 5/8"	32 13/16"	35 13/16"	37 3/8"				#4	⊔	Bal. - 12@3; 15@4; 7@5; 13@6; 4@9; Rest @ 10	Bal. - 24@3; 7@4; 7@5; 12@6; 5@9; Rest @ 10		

PRESTRESSED TEE TYPE SCHEDULE (PT- , PTT-)

TYPE	SCHEDULED TOP FLANGE WIDTH PIER LINE ⬡ NUMERAL END AT ② END AT ①	REFERENCE DIAGRAM NO.	WORKING FORCES P_F (Kips)	END-AT MASKED STRANDS: WORKING FORCES (Kips) $P_F M_2$	$P_F M_1$	MASK LENGTH ML_2	ML_1	LOCATION	CENTER OF GRAVITY WORKING FORCES DIMENSIONS "n"	"q"	"m"	"k"	"g"	"f"	"h"	"j"	STIRRUP SIZE	STIRRUP TYPE	STIRRUP SPACING - (MEASURED FROM END SUPPORT TOWARD CENTER) EXPANSION (E)	HINGED (H)	f'ci (Psi) AT STRAND RELEASE	REMARKS
PT-1	6.167' Thruout	B 70 T-10	934.00		747.20		14'-8"	EXP. END	18 11/16"	22 1/2"			28"		11 13/16"	9'-6"	#5	⊔	3@3;	19@3;	4,350	
				747.20	513.70	9'-2"	5'-6"	HINGED END	18 11/16"	22 1/2"	25 15/16"	34 9/16"	37 1/2"				#4	⊔	Bal. - 20@3; 12@4; 8@5; 8@6; 8@9; Rest @ 12	Bal. - 12@3; 12@4; 7@5; 10@6; 7@9; Rest @ 12		
PTT-100	5.988' \ 5.767'	←							Same as PT-1 above													
PT-2	6.167' Thruout	B 70 T-10	887.30		700.50		14'-0"	EXP. END	19 7/16"	23 3/4"			29 1/2"		12 13/16"	9'-0"	#5	⊔	3@3;	19@3;	4,150	
				700.50	513.70	9'-0"	5'-0"	HINGED END	19 7/16"	23 3/4"	27 1/2"	35 1/16"	37 3/4"				#4	⊔	Bal. - 20@3; 12@4; 6@5; 7@6; 8@9; Rest @ 12	Bal. - 10@3; 12@4; 5@5; 10@6; 7@9; Rest @ 12		
PT-2a		←							Same as PT-2 above													Remove portion of top flange @ a side where drain inlet box occurs see sht. #T-13 # Layout Plan for location.

NOTE: Refer to Typical Drawings #T-9 thru #T-13 for additional prestressed girder details.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	164	236

ORIGINAL PLAN | NOTE BOOK | No.

SURVEY PLOTTED BY GH DATE NOV. 1978
DRAWN BY " " "
TRACED BY DCO " "
DESIGNED BY " " "
QUANTITIES BY DCO, FC " "
CHECKED BY " " "

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PRESTRESSED GIRDER & TEE TYPE SCHEDULES

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: NONE DATE: NOV. 1978

SHEET No. 70 OF 77 SHEETS

PRESTRESSED TEE TYPE SCHEDULE (PT- , PTT-)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	165	236

TYPE	SCHEDULED TOP FLANGE WIDTH NUMERAL PIER LINE ③ END AT ②	END AT ①	REFERENCE DIAGRAM NO.	WORKING FORCES P_F(Kips)	END-AT MASKED STRANDS: WORKING FORCES(Kips) P_FM_2	P_FM_1	MASK LENGTH ML_2	ML_1	LOCATION	CENTER OF GRAVITY WORKING FORCES DIMENSIONS "n"	"q"	"m"	"K"	"g"	"f"	"h"	"j"	STIRRUP SIZE	TYPE	STIRRUP SPACING-(MEASURED FROM END SUPPORT TOWARD CENTER) EXPANSION(E)	HINGED(H)	f'ci(Psi) AT STRAND RELEASE	REMARKS
PT-5	6.167'	thruout	A 71 T-10	840.60					EXP. END						24 13/16"	13 9/16"	8'-6"	#5	⊔	3@3;	18@3;	4,000	
					677.15	513.70	4'-3"	5'-0"	HINGED END	21 13/16"	26 5/16"	28 1/16"	34 7/8"	37 9/16"				#4	⊔	Bal.-10@3; 14@4; 7@5; 12@6; 6@9; Rest@12	Bal.-12@3; 14@4; 13@6; 5@9; Rest@12		
PT-5a	←								Same as PT-5 above														Remove portion of top flange ea. side where drain inlet box occurs see Sht. #T-13 & Layout Plan for location
PT-6	6.167'	thruout	A 71 T-10	793.90					EXP. END						26"	14 13/16"	8'-0"	#5	⊔	3@3;	17@3;	4,000	
					653.80	513.70	7'-6"	5'-0"	HINGED END	21 13/16"	25 13/16"	28 7/8"	35 5/16"	37 15/16"				#4	⊔	Bal.-24@4; 10@6; 8@9; Rest@12	Bal.-12@3; 20@4; 9@6; 8@9; Rest@12		
PT-6a	←								Same as PT-6 above														Remove portion of top flange ea. side where drain inlet box occurs see Sht. #T-13 & Layout Plan for location
PT-50	6.167'	thruout	A 71 T-10	840.60					EXP. END						24 1/2"	13 15/16"	8'-4"	#5	⊔	3@3;	3@3; 6@4	4,000	
					700.50	513.70	8'-4"	4'-9"	HINGED END	20 7/16"	23 7/8"	27"	34 3/4"	36 13/16"				#4	⊔	Bal.-12@4; 10@5; 10@6; 8@8; Rest@12	Bal.-16@3; 10@4; 5@5; 8@6; 9@8; Rest@12		
PT-50a	←								Same as PT-50 above														Remove portion of top flange ea. side where drain inlet box occurs see Sht. #T-13 & Layout Plan for location
PT-51	5.768'	thruout	←						Same as PT-50 above														
PT-101	5.770'	6.168'	←						Same as PT-50 above														
PTT-90	4.555'	3.744'	A 71 T-10	703.90					EXP. END						25 15/16"	13 15/16"	8'-6"	#5	⊔	3@3;	13@3,	4,000	
					653.80	513.70	4'-3"	5'-0"	HINGED END	22 3/4"	27"	28 3/4"	35 1/16"	37 3/4"				#4	⊔	Bal.-4@3; 9@4; 8@5; 10@6; 6@9; Rest@12	Bal.-8@3; 12@4; 13@6; 6@9; Rest@12		
PTT-91	4.552'	3.920'	←						Same as PTT-90 above														
PTT-92	5.594'	3.424'	←						Same as PTT-90 above														
PTT-93	4.795'	3.576'	←						Same as PTT-90 above														
PTT-94	4.439'	3.537'	←						Same as PTT-90 above														
PTT-95	5.304'	3.883'	←						Same as PTT-90 above														
PTT-96	4.643'	3.802'	←						Same as PTT-90 above														
PTT-97	5.235'	3.073'	←						Same as PTT-90 above														
PTT-98	4.619'	3.717'	←						Same as PTT-90 above														
PTT-99	3.716'	2.995'	←						Same as PTT-90 above														

NOTE:
For additional notes, refer to Sht. #70.

ORIGINAL PLAN		DATE NOV. '78
	SURVEY PLOTTED BY	
	DRAWN BY GU	" "
	TRACED BY	" "
NOTE BOOK	DESIGNED BY DCO	" "
No.	QUANTITIES BY	
	CHECKED BY DCO; FC	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PRESTRESSED TEE TYPE SCHEDULES

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

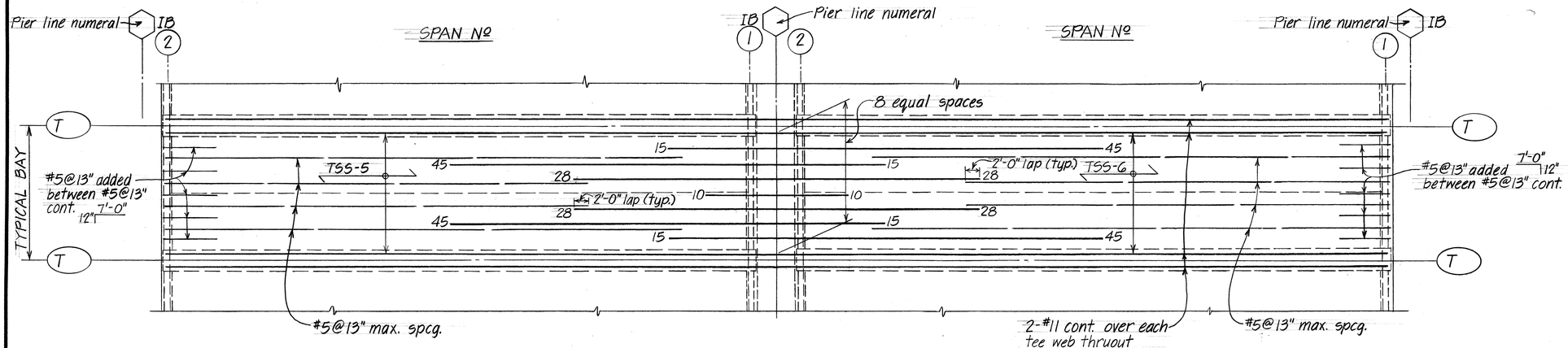
SCALE: NONE DATE: NOV. 1978

SHEET No. 71 OF 77 SHEETS

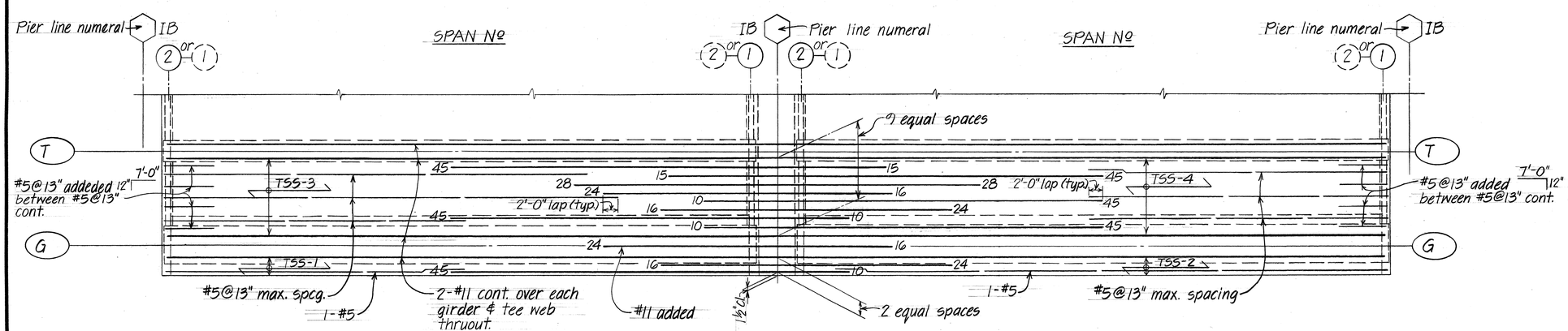
165

K+E TRACING PAPER

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-(156):16	1979	166	236



TYPICAL ARRANGEMENT OF REINFORCEMENT - TOP SLAB STRIPS TSS-5, TSS-6



TYPICAL ARRANGEMENT OF REINFORCEMENT - TOP SLAB STRIPS TSS-1, TSS-2, TSS-3, TSS-4

NOTES: All reinforcement #11 except as otherwise noted.

Number at ends of bars denotes dimension in feet from the adjacent pier line numeral.

For additional slab reinforcement, see Typical Deck Slab Sect. & corresponding details.

All #5@13" max. bars shall be extended & lapped 2'-0" min. with the adjacent #11 bars as shown.

Cont. added are continuous bars from one or more spans extended partially into the adjacent span at ends.

~~00~~ Indicate bundle bars in groups of twos.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE NOV. '78
	DRAWN BY LN	" "
	TRACED BY	" "
NOTE BOOK	DESIGNED BY O/O	" "
No.	QUANTITIES BY	" "
	CHECKED BY CO, EC	" "

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

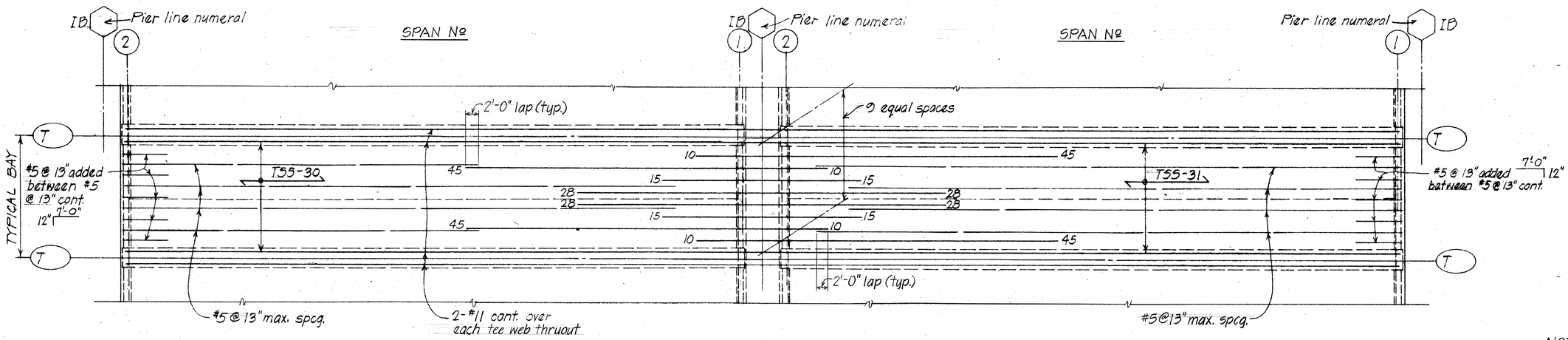
TYPICAL BAR PLACEMENT DIAGRAMS, TSS-1 THRU TSS-6 INCL.

AIRPORT VIADUCT-AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: NO SCALE DATE: NOV. 1978

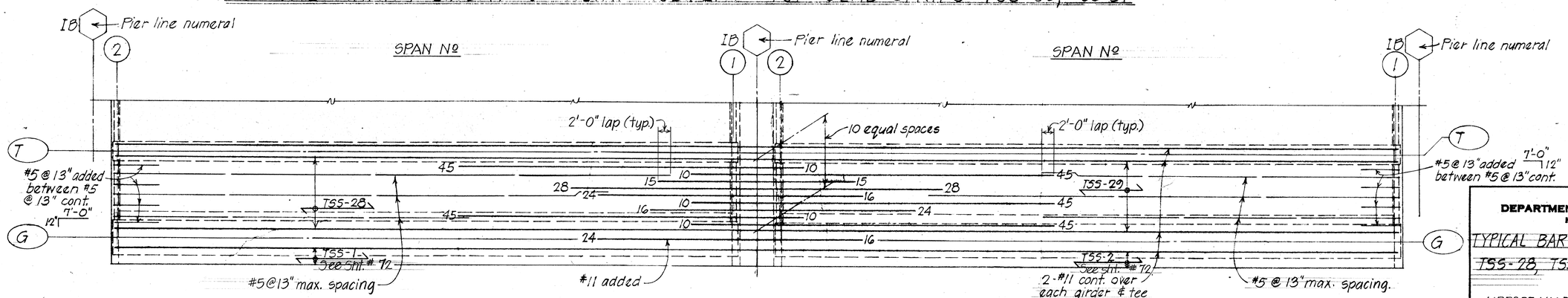
SHEET No. 72 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156)16	1979	167	236



TYPICAL ARRANGEMENT OF REINFORCEMENT - TOP SLAB STRIPS T55-30, T55-31

NOTE: For additional notes refer to Sht. #72.



TYPICAL ARRANGEMENT OF REINFORCEMENT - TOP SLAB STRIPS T55-28, T55-29

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE NOV '78
	DRAWN BY N.Y.	
	TRACED BY	
NOTE BOOK	DESIGNED BY DCD	
No.	QUANTITIES BY S.T. KM SY	
	CHECKED BY DCD, EC	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

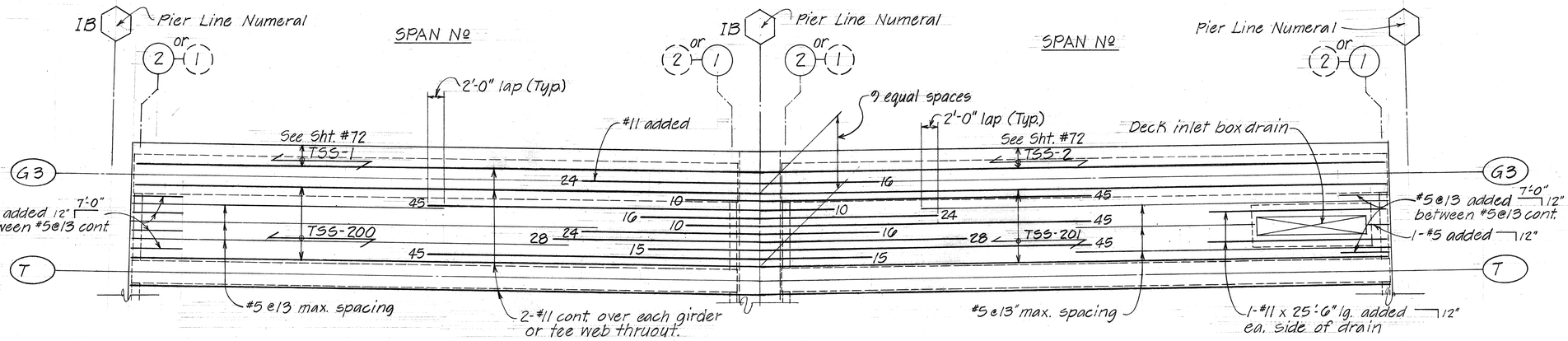
TYPICAL BAR PLACEMENT DIAGRAMS
T55-28, T55-29, T55-30, T55-31

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

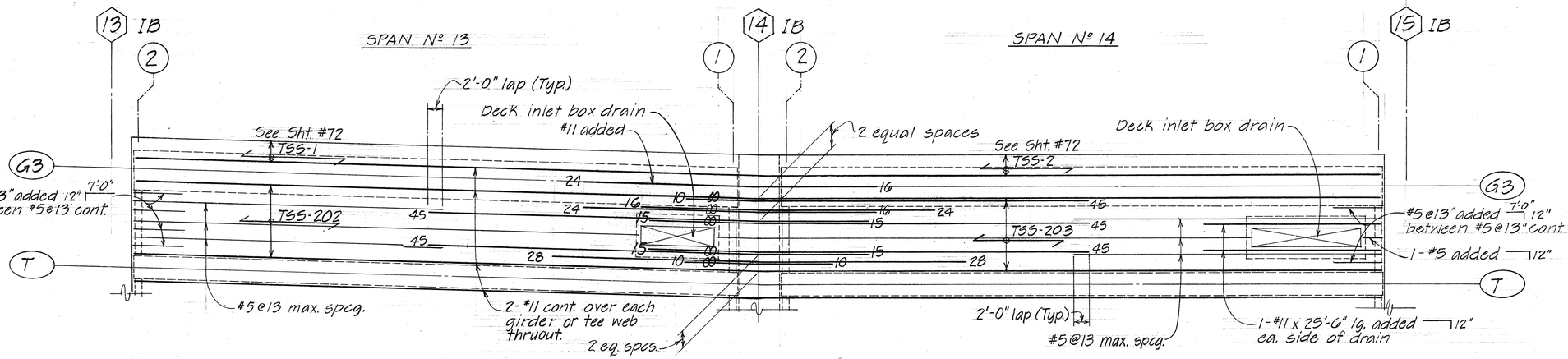
SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 73 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	168	236

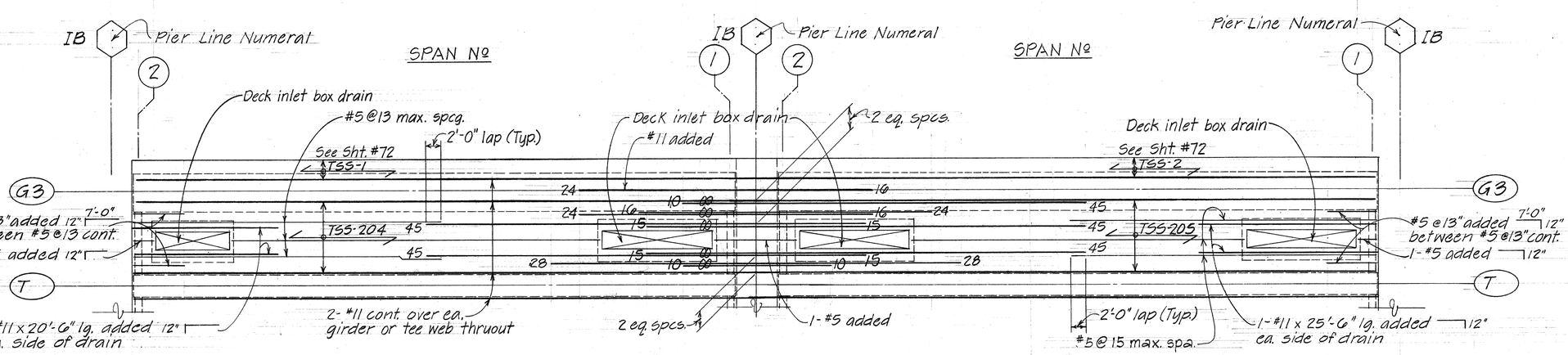


TYPICAL ARRANGEMENT OF REINFORCEMENT - TOP SLAB STRIPS TSS-200, TSS 201



TYPICAL ARRANGEMENT OF REINFORCEMENT - TOP SLAB STRIPS TSS-202, TSS 203

NOTE: For additional notes, refer to Sht. #72.



TYPICAL ARRANGEMENT OF REINFORCEMENT - TOP SLAB STRIPS TSS-204, TSS-205

ORIGINAL PLAN		DATE	NOV. '78
	SURVEY PLOTTED BY		
	DRAWN BY	LM	
	TRACED BY		
NOTE BOOK	DESIGNED BY	DCQ	TKM
	QUANTITIES BY	LM	
No.	CHECKED BY	DCQ	EC

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

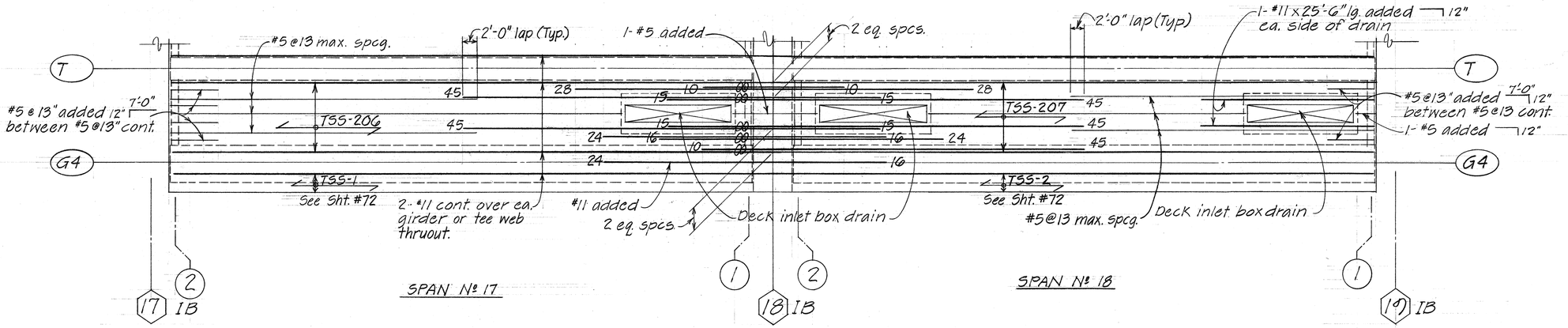
TYPICAL BAR PLACEMENT DIAGRAMS, TSS-200 THRU TSS-205 INCL.

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

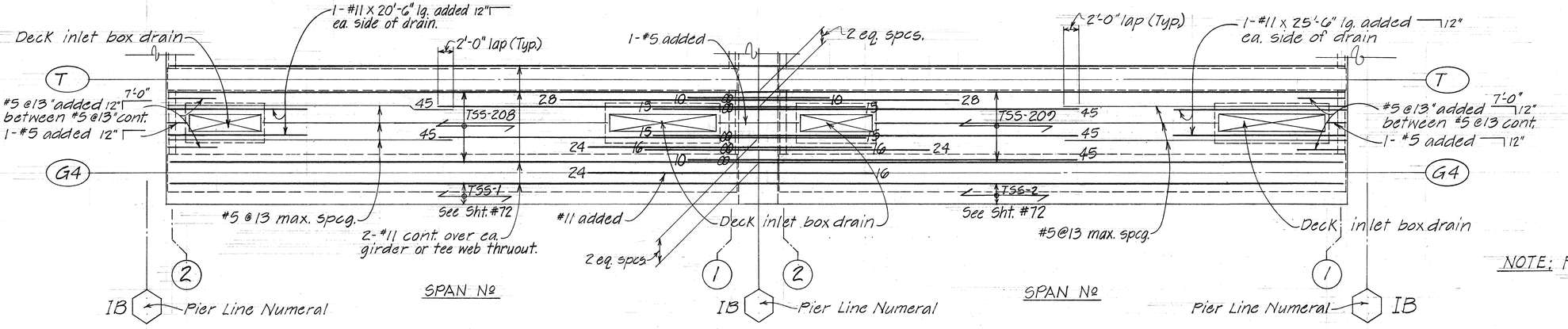
SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 74 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	169	236

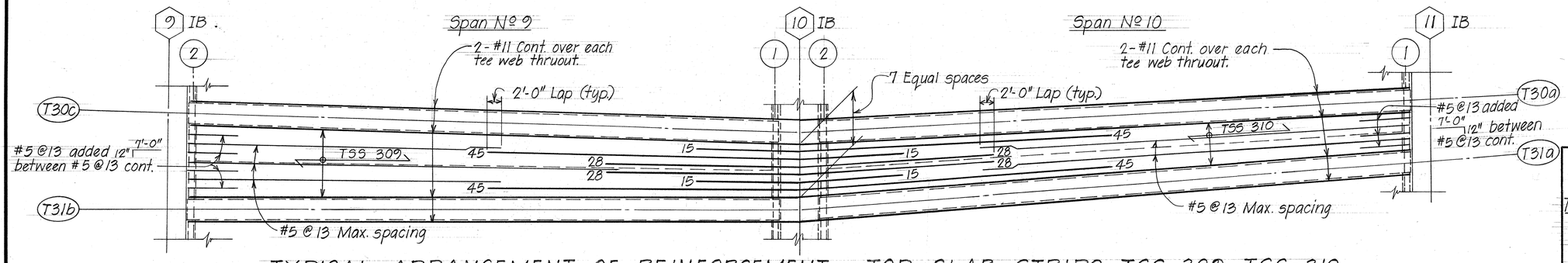


TYPICAL ARRANGEMENT OF REINFORCEMENT - TOP SLAB STRIPS - TSS-206, TSS-207



TYPICAL ARRANGEMENT OF REINFORCEMENT - TOP SLAB STRIPS - TSS-208, TSS-209

NOTE: For additional notes, refer to Sht. #72.



TYPICAL ARRANGEMENT OF REINFORCEMENT - TOP SLAB STRIPS TSS-309, TSS-310

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE NOV. '78
	DRAWN BY LNA	" "
NOTE BOOK	TRACED BY DSC	" "
No.	DESIGNED BY	" "
	QUANTITIES BY KM FKM	
	CHECKED BY DCO, FC	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

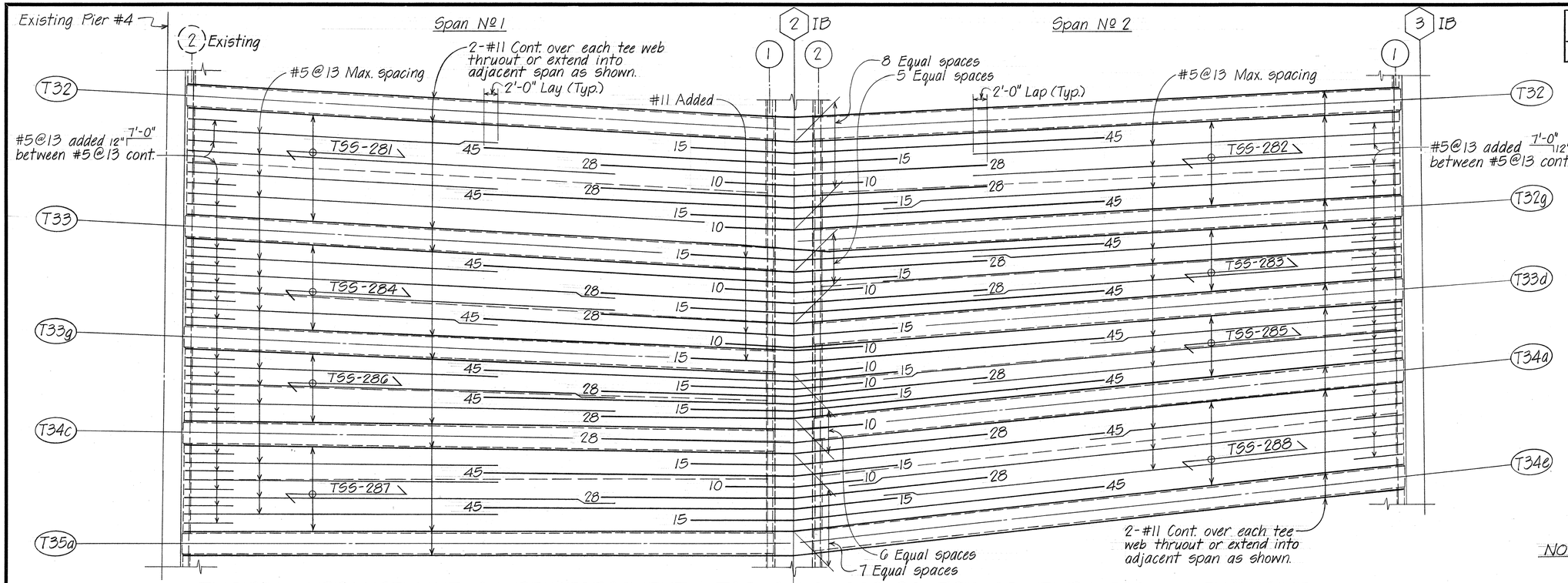
TYPICAL BAR PLACEMENT DIAGRAMS
TSS-206 THRU TSS-209 INCL.,
TSS-309, TSS-310

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: NO SCALE DATE: NOV. 1978

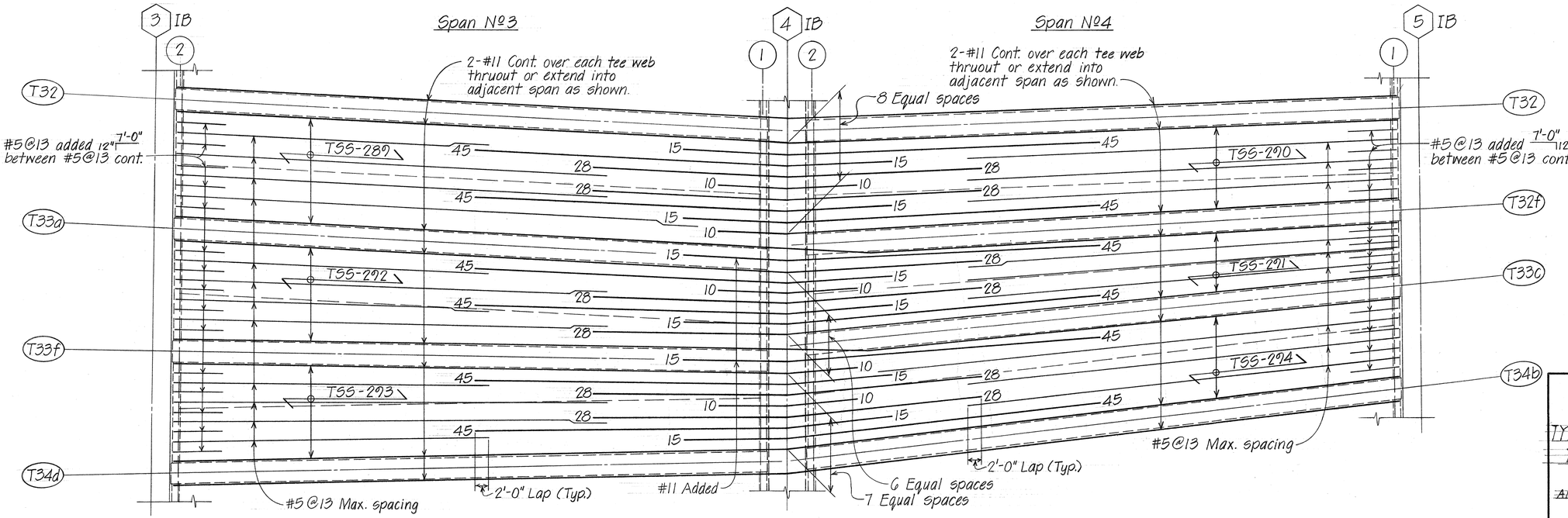
SHEET No. 75 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-(156):16	1979	170	236



NOTE: For additional notes, refer to Sht. #72.

TYPICAL ARRANGEMENT OF REINFORCEMENT - TOP SLAB STRIPS TSS-281 THRU TSS-288 INCLUSIVE



TYPICAL ARRANGEMENT OF REINFORCEMENT - TOP SLAB STRIPS TSS-289 THRU TSS-294 INCLUSIVE

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	SURVEY PLOTTED BY		DATE
	DRAWN BY	LN	NOV.'78
	TRACED BY	"	"
NOTE BOOK	DESIGNED BY	DCO	"
	QUANTITIES BY	LW	TKM
No.	CHECKED BY	DCO	FC

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

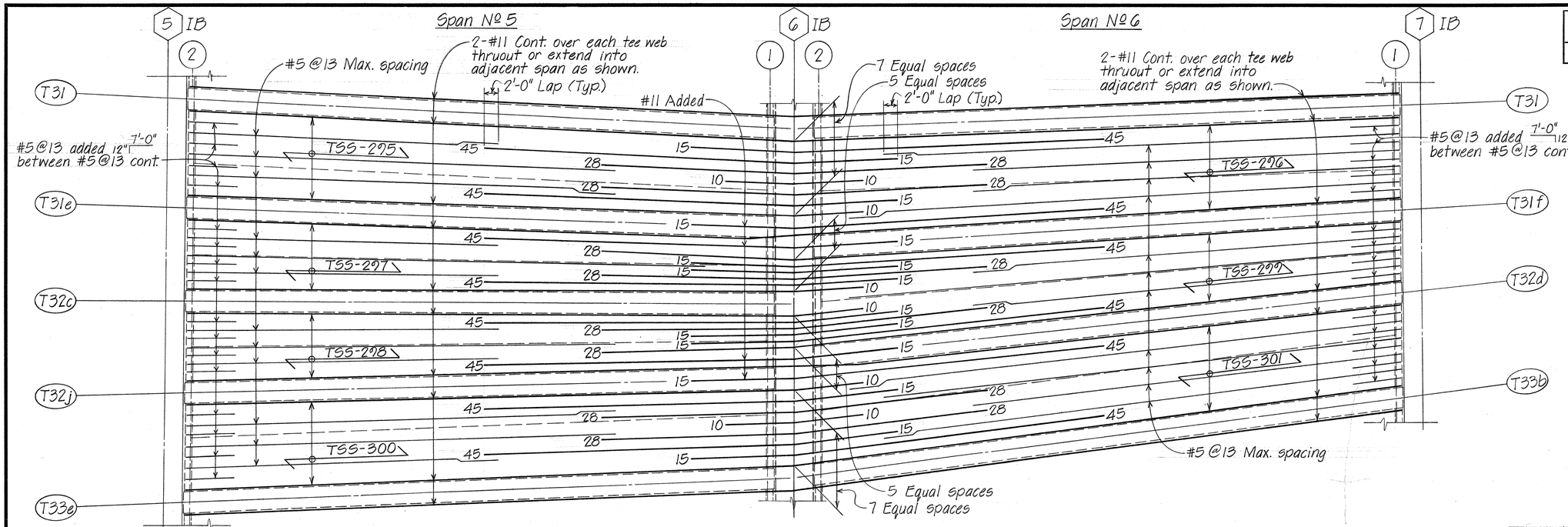
TYPICAL BAR PLACEMENT DIAGRAMS
TSS-281 THRU TSS-294 INCL.

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-I(156):16

SCALE: NO SCALE DATE: NOV. 1978

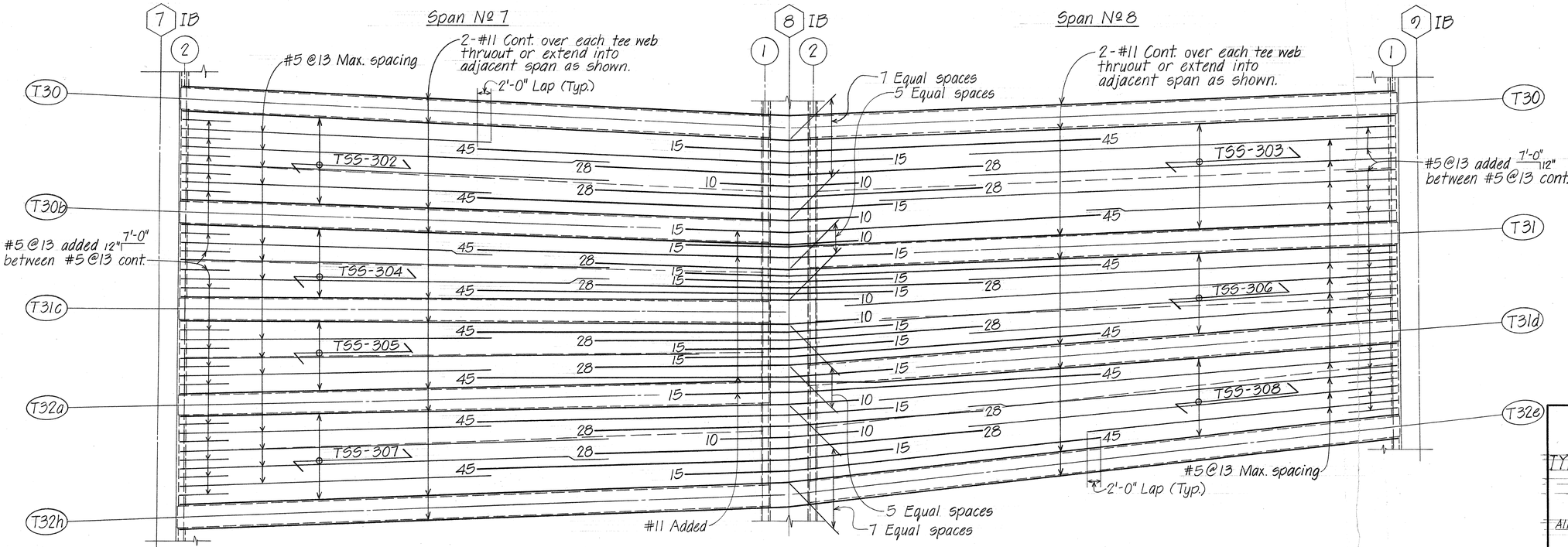
SHEET No. 76 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	171	236



TYPICAL ARRANGEMENT OF REINFORCEMENT - TOP SLAB STRIPS TSS-295 THRU TSS-301 INCLUSIVE

NOTE: For additional notes, refer to Sht. #72.



TYPICAL ARRANGEMENT OF REINFORCEMENT - TOP SLAB STRIPS TSS-302 THRU TSS-308 INCLUSIVE

ORIGINAL PLAN		
NOTE BOOK	No.	
SURVEY PLOTTED BY		
DRAWN BY	LN	DATE NOV.'78
TRACED BY		" "
DESIGNED BY	DCO	" "
QUANTITIES BY	LM, FC	" "
CHECKED BY	DCO, TKM	" "

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL BAR PLACEMENT DIAGRAMS
TSS-295 THRU TSS-308 INCL.

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: NO SCALE DATE: NOV. 1978

SHEET No. 77 OF 77 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	172	236

GENERAL NOTES

DESIGN SPECIFICATIONS AASHTO

Standard Specifications for Highway Bridges (12th Edition) with subsequent interim Specifications.

DESIGN LOADS: HS-20-44 or Interstate loading.

DESIGN STRESSES:

1. Cast-in-place reinforced concrete – See AASHTO Specifications and Special Provisions except as otherwise noted.

Class A, BD	All Others
f'c = 3,000 psi	5,000 psi
fc = 1,200 psi	2,000 psi
n = 9	6.6

fs = ASTM A615, see Special Provisions

2. Prestressed Girders & Tees

f'c = 5,500 psi | ½" dia. 7 wire 270ᵏ strands.
f'ci = See Schedules

Design load = 23,350 lbs. max. per strands (based on no friction loss).

The design load is based on a projected loss excluding friction of 50,000 psi from initial pull.

Forms must be removed and the beams inspected before the strands are cut.

3. Except as otherwise noted, all structural steel lfs & members shall conform to ASTM A36 & hot dipped galvanized after fabrication.

MATERIALS:

1. Except as otherwise noted on plans:
   a. Cast-in-place concrete for the various parts of the viaduct structure are:
      Light weight concrete - Concrete bridge railing.
      5,000 psi - Concrete footings; column pedestal; pier frame columns, caps & composite concrete slab over cap.
      Class BD - Concrete deck slab.
      Class A - All others,
   b. Reinforcing steel for cast in place concrete are as follows:
      Grade 40 – Concrete deck slabs, beams & railing.
      Grade 60 – Pier frame & footing reinforcement.
   c. Concrete for precast prestressed concrete tee & girders - see Standard Specifications and as noted under Design Stresses.
2. Concrete in precast prestressed tees & girders shall have a cement content of not less than 7.0 sacks but not more than 8.50 sacks per cu. yd.
3. All preformed elastomeric bearing pads, premolded joint filler incidental to concrete and will not be paid for separately.
4. See Special Provisions for admixture in concrete.

CONSTRUCTION METHODS:

1. See Standard Specification for Road & Bridge construction, 1976 Edition and Special Provisions.
2. In general top of concrete deck of superstructure shall be constructed to follow the finish roadway vertical and horizontal curves and grades.
3. For Concrete finish see Special Provisions. Tee & girder concrete seats and creep blocks to be poured monolithically with the pier cap. Top surfaces of conc. seats to have hard steel trowel finish.
4. See details for additional surface finish.
5. Except as otherwise noted, all vertical dimensions are measured plumb.
6. Additional pier frame column footings to be constructed shall be excavated & poured neat against undisturbed ground. Refer to Sht. #19 for typical details. In case of over excavation, space between footing and ground shall be filled with concrete at the Contractor's expense and as directed by the Engineer. The minimum quality of the fill concrete shall be Class D.

CONSTRUCTION METHODS (CONT.):

7. In the installation of anchor bolts for Highway Lighting Standards & Expressway Bridge Signs, the Contractor shall provide rigid templates to maintain the proper locations & protection of such anchor bolts at all times during the period of construction. Exact methods shall be approved by the Engineer.

REFERENCE:

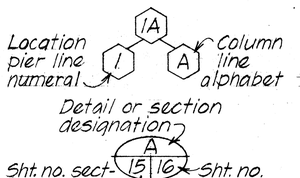
1. Refer to Standard Detailed Drawings D8-100 for additional details & notes not covered by detailed & Typical Drawings.
2. Typical Details drawing sheet Nos. T-1 thru T-29 inclusive refers to the viaduct structure in general except for modification as may be required by special conditions. For such modifications see corresponding detailed plans.

GENERAL:

1. All items noted incidental will not be paid for separately.
2. The Contractor shall verify the locations of all existing utility lines and notify their respective owners before commencing with work.
3. The following members shall be considered as Structural Steel pay items:
   a. Sole lfs and connection lfs at tees and girders.
   b. 2-angle rolled sections deck expansion jt. protective nosing assemblage.
   c. Deck drain grate & frame assemblage.
4. Exact location of bars shall be so arranged so that no interference will occur between vertical column reinforcement and bottom pier cap horizontal reinforcement.

   The Contractor shall provide shop placement & detailed drawings of all columns & pier caps reinforcement for approval by the Engineer. It shall also include all splice locations where required.
6. The Contractor shall furnish shop placement & detail drawings for all structural steel work including frame & grating assemblage of each drain.
7. Refer to utility plans for various additional conduits in deck & pier cap.

SYMBOLS AND ABBREVIATIONS



① ② - Location concrete seat line number

⊗ - Boring no. & designation

Drain box inlet type
Dimension (feet) - inlet clear opening
Invert elevation

I_1 - 15': 54.84

(G-1) - & Prestressed girder number

(T-11) - & Prestressed tee number

F-6 – Footing Type (Individual Column)

CF-4 – Combined Footing Type (Column)

CP-2 – Column Pedestal Type

Deck slab main reinforcement direction between supports

(E) - Expansion

(F) - Fixed

(H) - Hinged

cwt. - Hundred weight

A.

Adj. - Adjacent
Alt. - Alternate
Az. - Azimuth

B.

Bal. - Balance
B.F. - Both Faces
Bot., Bott. - Bottom
℄ - Baseline

C.

Cl. - Clear
Col. - Column
Cont. - Continuous
C.J. - Construction Joint
CS-2 - Concrete Seat Type
℄ - Center Line

D.

D.S., ● - Down Spout (Drain)

E.

Ea. - Each
Eq. - Equal
(E), Exp. - Expansion
E.F. - Each Face
El., Elev. - Elevation
E.P. - Edge Pavement
E.W. - Each Way
Exist. - Existing
EB - Eastbound

F.

Ftg. - Footing
F.F. - Far Face
F-2 - Column Footing Type

H.

(H) - Hinge
Hwy. - Highway

I.

Inv. - Invert
Int. - Interior
IB - Inbound

J.

Jt. - Joint

L.

Lg. - Long
Longit. - Longitudinal
Lt. - Left

M.

Max. - Maximum
Min. - Minimum

N.

No., # - Number
N.F. - Near Face

O.

Op'ng - Opening
OB - Outbound
O.C. - On Centers
O/s - Offset

P.

Pt. - Point
P.I. - Point of Intersection
PF-2 - Pier Frame Type
PG-1 - Prestressed Girder Type
PT - Prestressed Tee Type
PTT - Prestressed Tapered Tee Type

R.

R - Radius
Ref. - Reference
Reinf. - Reinforcement
Req'd - Required
Rt. - Right

S.

Sht. - Sheet
Sta. - Station
Stirr. - Stirrup
Str. - Straight
Symm. - Symmetrical
S.E. - Super Elevation
℄ - Station Line
S/2, S/3 - Span divided into 2 or 3 equal parts
SSR - (Pier) Shalf seat reinf.

T.

Typ. - Typical
T, (T) - Top
T.P. - Turning Point
TS-2 - Typical Slab Reinforcement Type
TSS-5 - Top Slab Strip Reinforcement Type

V.

Vert. - Vertical

W.

W.P. - Working Point
WB - Westbound

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE NOV '78
	DRAWN BY GH	
	TRACED BY	
NOTE BOOK	DESIGNED BY	
No.	CHECKED BY DCO, EC	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

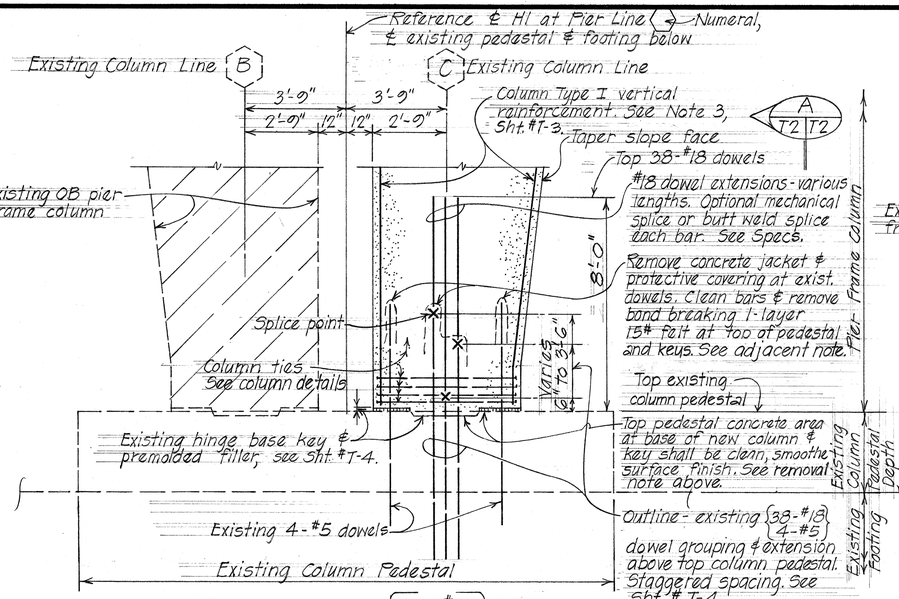
TYPICAL DETAILS
GENERAL NOTES, SYMBOLS & ABBREVIATIONS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

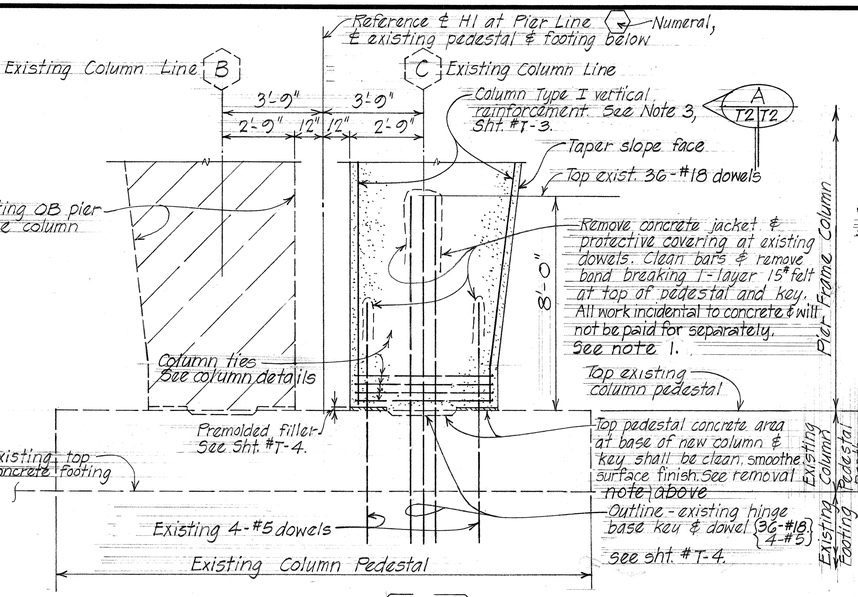
SCALE: NO SCALE DATE: NOV. 1978

SHEET No. T-1 OF 29 SHEETS

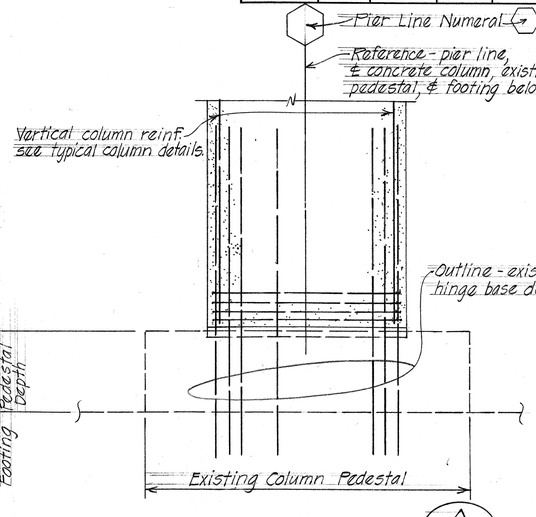
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	173	236



COLUMN LINE ⟨C⟩ WITH 38-#18 4-#5 - EXISTING DOWELS

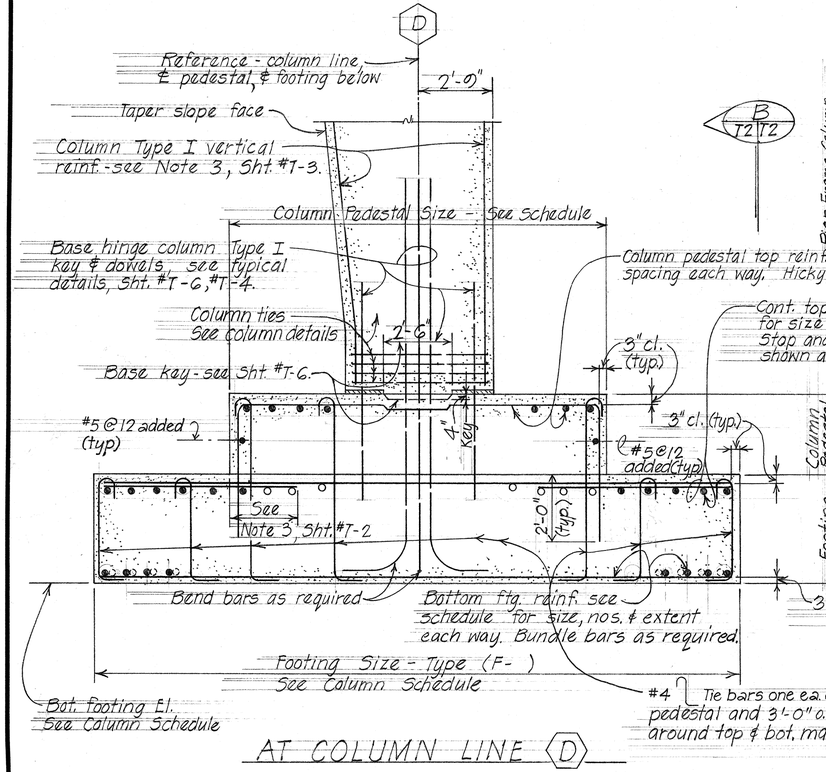


COLUMN LINE ⟨C⟩ WITH 36-#18 4-#5 - EXISTING DOWELS

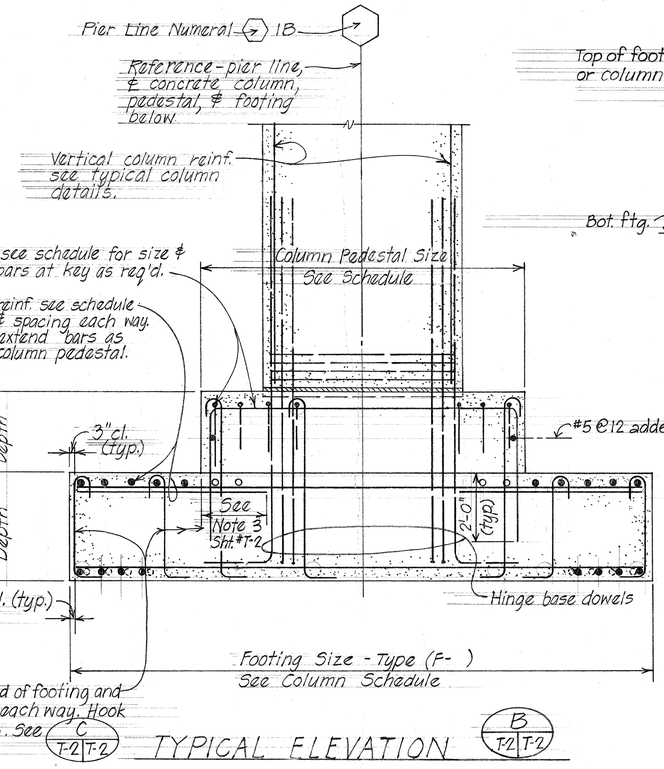


TYPICAL ELEVATION A T-2 T-2

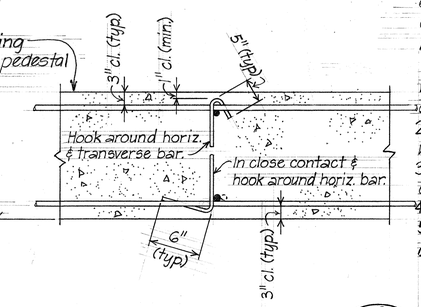
AT EXISTING COMBINE FOOTING - COLUMN LINE ⟨B⟩ & ⟨C⟩



AT COLUMN LINE ⟨D⟩



TYPICAL ELEVATION B T-2 T-2



TIE BAR DETAIL C T-2 T-2 T-3
No Scale

NOTE:
1. Removal of over burden fill materials to top of existing column pedestals in preparation for columns at existing column line ⟨C⟩ shall be incidental to conc. & will not be paid for separately.
The Contractor shall exercise care in the removal of overburden as not to disturb all existing column dowels.
2. Column pedestal to be poured monolithic with footing.
3. This dimension is equal to 40x bar diameter or 2'-6" minimum, whichever is greater.
4. For additional notes, refer to sht. #T-3
5. For additional foundation column pedestal & footing details & reinf., refer to Sht. # 20

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE Nov. '78
	DRAWN BY NY	" "
	TRACED BY	" "
NOTE BOOK	DESIGNED BY DCO	" "
	QUANTITIES BY	" "
No.	CHECKED BY DCO FC	" "

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL FOUNDATION DETAILS WITH COLUMN PEDESTAL COLUMN TYPES I,

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

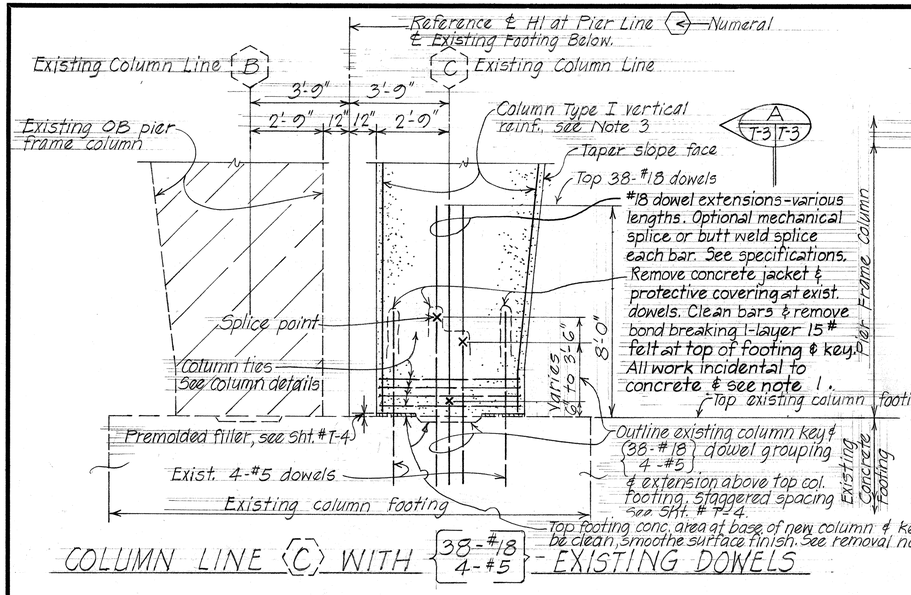
SCALE: NO SCALE DATE: NOV. 1978

SHEET No. T-2 OF 29 SHEETS

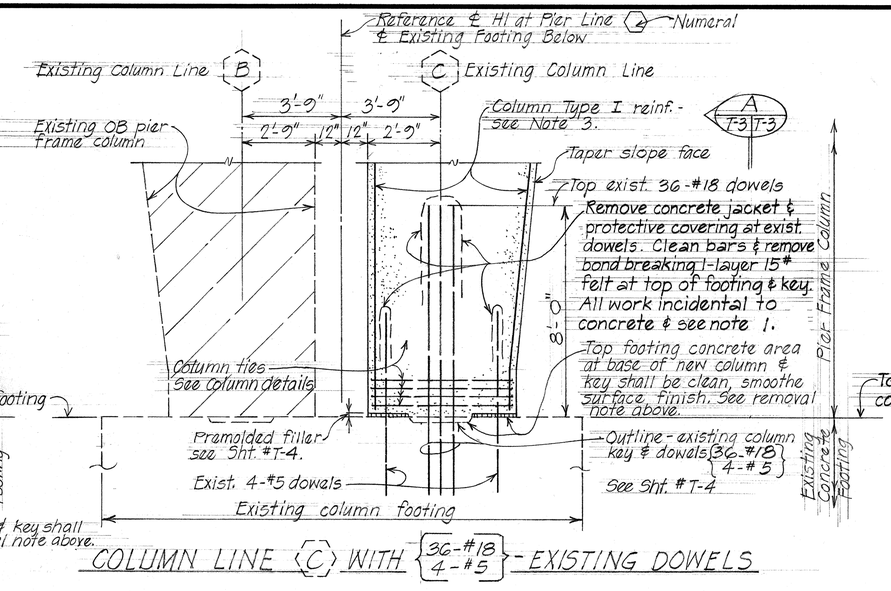
TYPICAL FOUNDATION DETAILS - PIER FRAME COLUMN TYPE I WITH COLUMN PEDESTAL

K+E TRACING PAPER

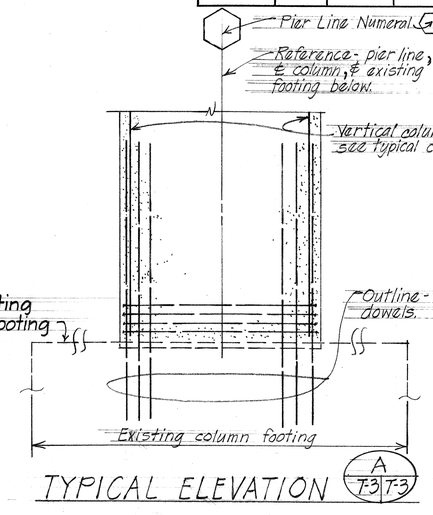
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	174	230



COLUMN LINE (C) WITH (38-#18 / 4-#5) - EXISTING DOWELS

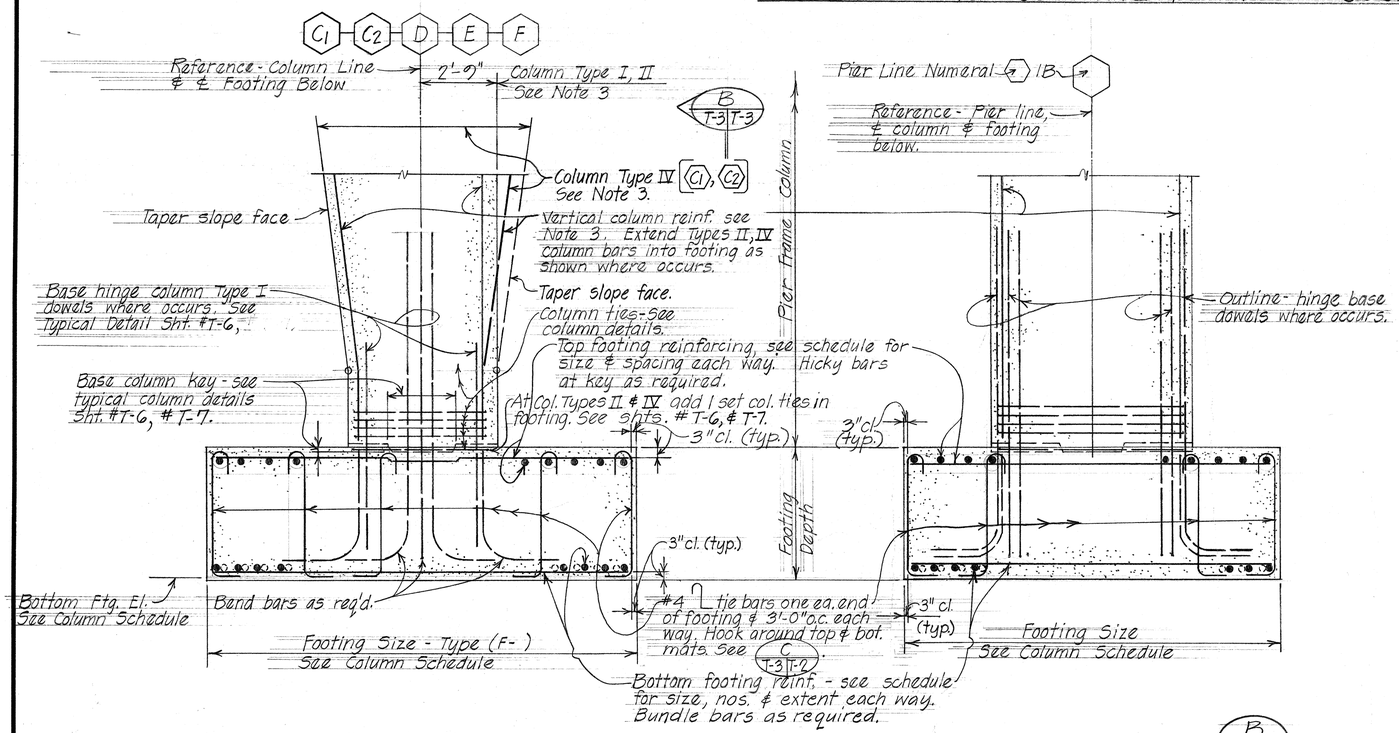


COLUMN LINE (C) WITH (36-#18 / 4-#5) - EXISTING DOWELS



TYPICAL ELEVATION

AT EXISTING COMBINE FOOTING - COLUMN LINE (B) AND (C)



AT COLUMN LINES (D), (E), (F) TYPES I, II AS SHOWN

COLUMN LINES (C1) (C2) TYPE IV - SIMILAR EXCEPT AS OTHERWISE NOTED

TYPICAL ELEVATION B T-3 T-3

NOTE:

1. Removal of overburden fill material to top of existing footings in preparation for columns at existing Column Line (C) shall be incidental to concrete and will not be paid for separately.
   The Contractor shall excercise care in the removal of overburden material so as not to disturb all existing column dowels.
2. For additional foundation column pedestal & footing details & reinf., refer to Sht. #29.
3. Refer to Sht. #T-5, #T-6 for pier frame column details Types I & II. Refer to Sht. #T-7 for column details Type IV.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE NOV. '78
	DRAWN BY NT	" " "
NOTE BOOK	TRACED BY DLO	" " "
	DESIGNED BY	" " "
No.	QUANTITIES BY DLO, F.C.	" " "
	CHECKED BY DLO, F.C.	" " "

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL FOUNDATION DETAILS WITHOUT COLUMN PEDESTAL COLUMN TYPES I, II, IV

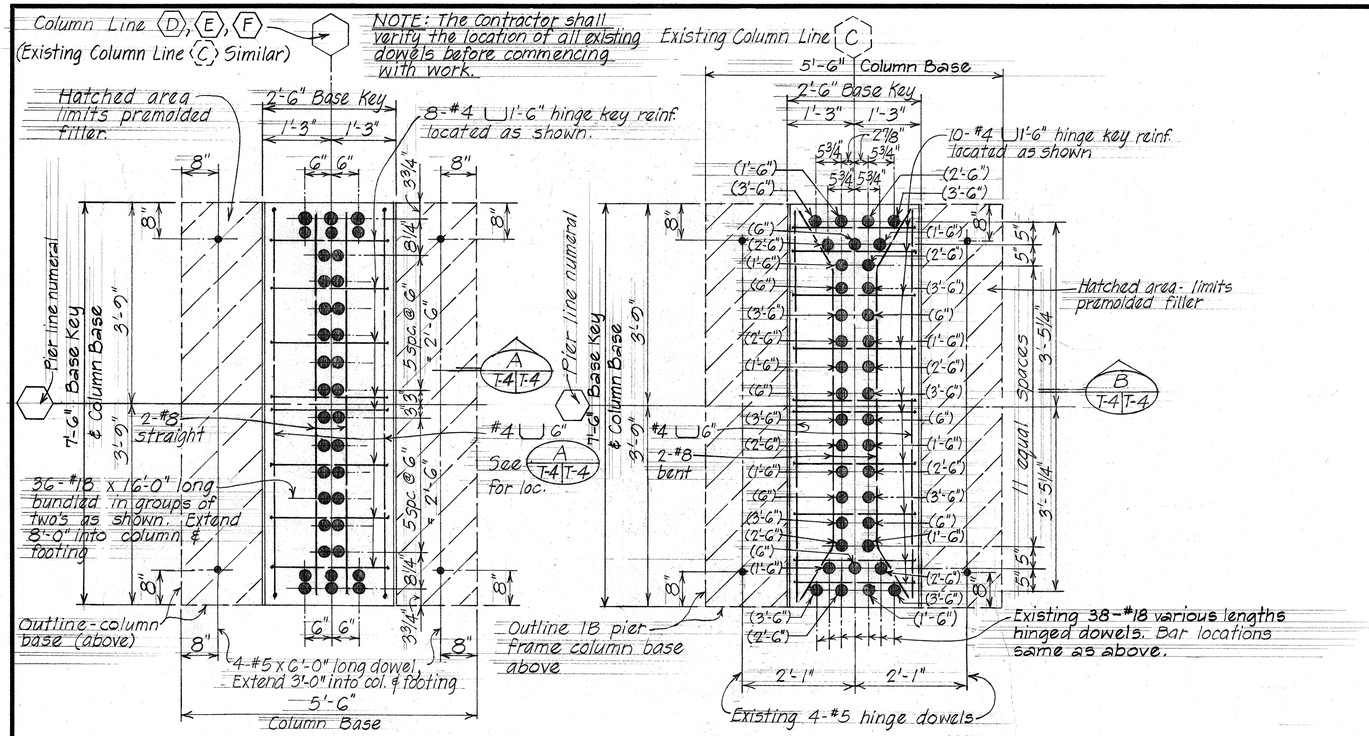
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: NO SCALE DATE: NOV. 1978

SHEET No. T-3 OF 29 SHEETS

TYPICAL FOUNDATION DETAILS - PIER FRAME COLUMN TYPES I, II, IV WITHOUT COLUMN PEDESTAL

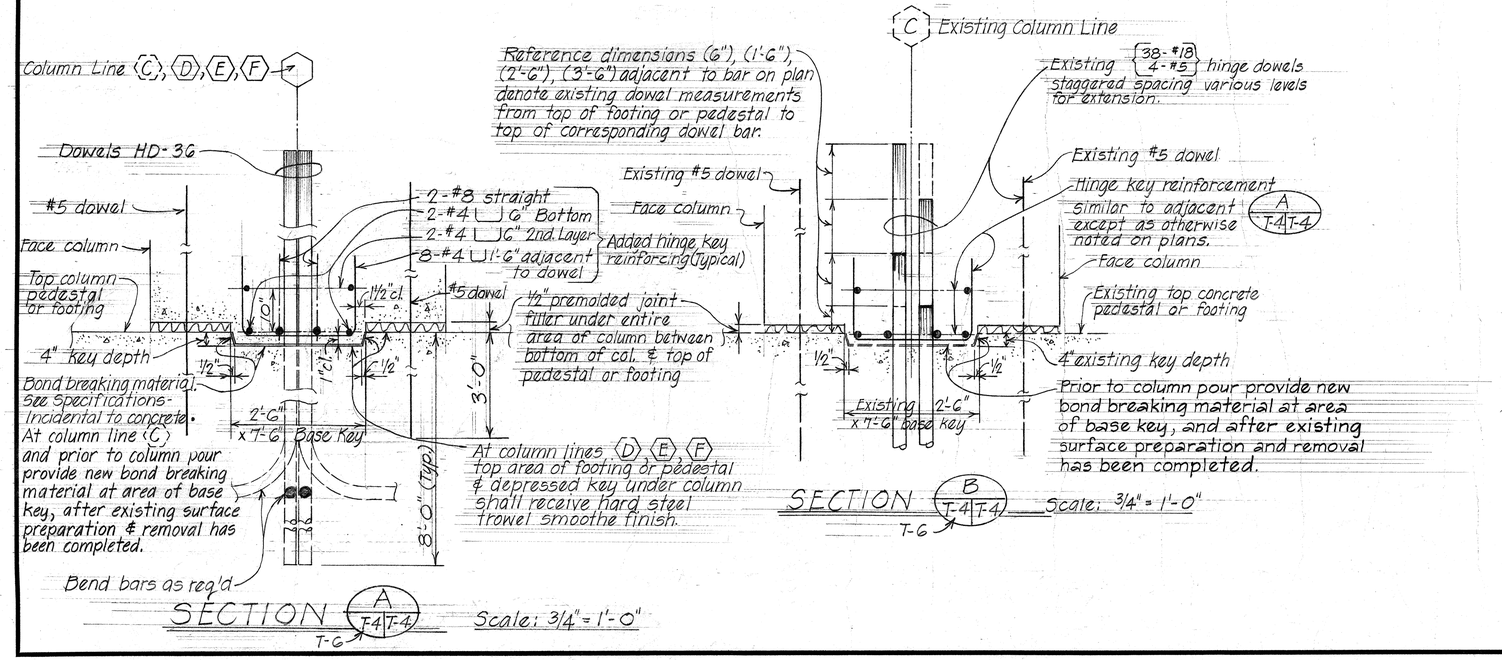
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-HI-I(156):16	1979	175	236



PLAN - BASE HINGE COLUMN KEY AND DOWEL HD-36

EXISTING COLUMN LINE (C) {36-#18, 4-#5} SIMILAR

PLAN - EXISTING BASE HINGE COLUMN KEY AND DOWEL {38-#18, 4-#5}



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE Nov. '78
	DRAWN BY =
	TRACED BY =
NOTE BOOK	DESIGNED BY DLO
	QUANTITIES BY DLO
No.	CHECKED BY DLO

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS
COLUMN HINGE BASE DETAILS

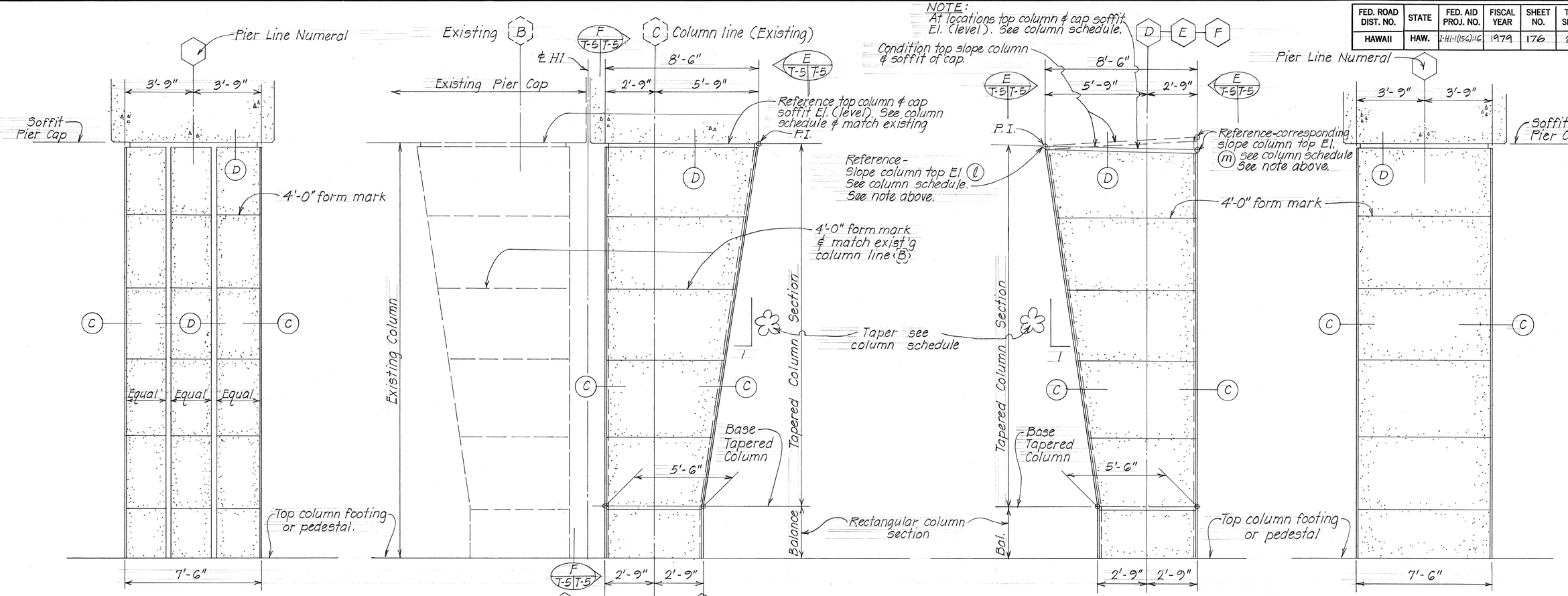
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE : AS NOTED DATE: NOV. 1978

SHEET No. T-4 OF 29 SHEETS

175

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(56):16	1979	176	236



TYPICAL ELEVATION E T-5 T-5

SIDE ELEVATION

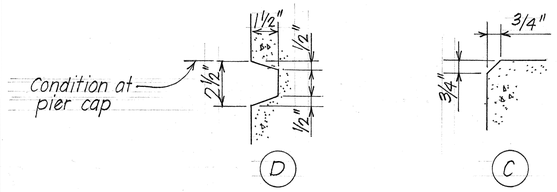
SIDE ELEVATION - COL. LINE D, E, F

ELEVATION F T-5 T-5

DIMENSIONS AND DETAILS

TYPICAL PIER FRAME COLUMNS - TYPE I & II

Not to scale



GROOVE AND CHAMFER DETAILS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE Nov. '78
	DRAWN BY MA	"
	TRACED BY	"
NOTE BOOK	DESIGNED BY DCO	"
	QUANTITIES BY	"
No.	CHECKED BY DCO, FC	"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS
PIER FRAME COLUMN TYPES I, II
DIMENSIONS & DETAILS

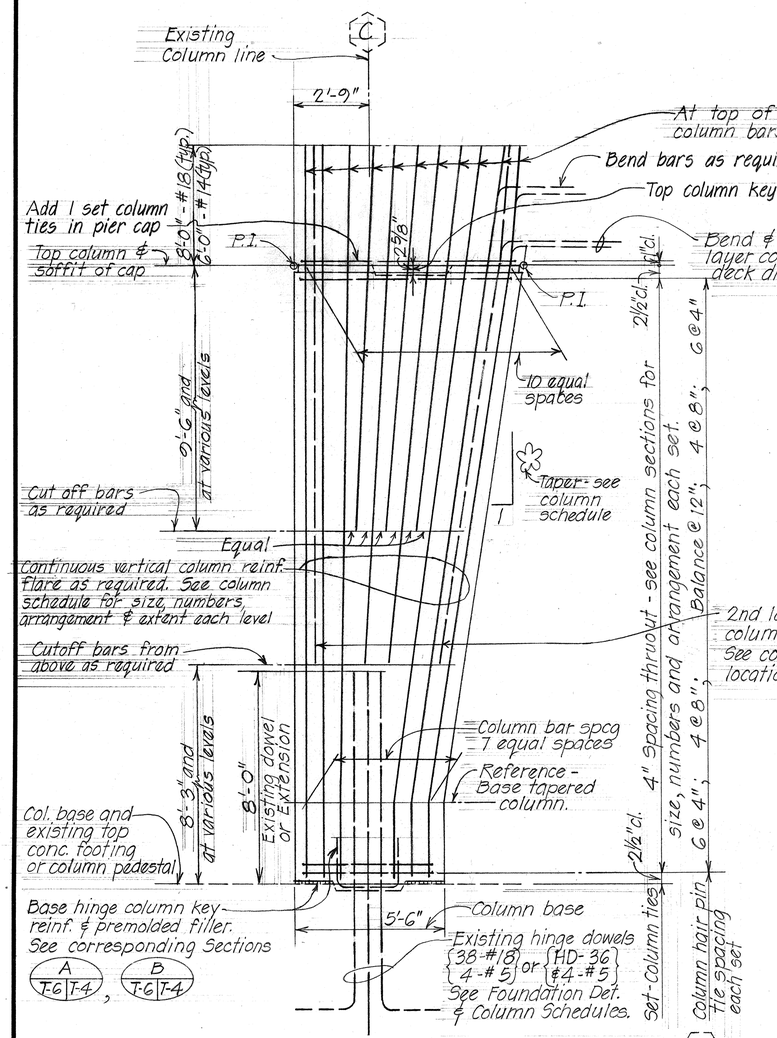
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: NO SCALE DATE: NOV. 1978

SHEET No. T-5 OF 29 SHEETS

176

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(056):16	1979	177	230



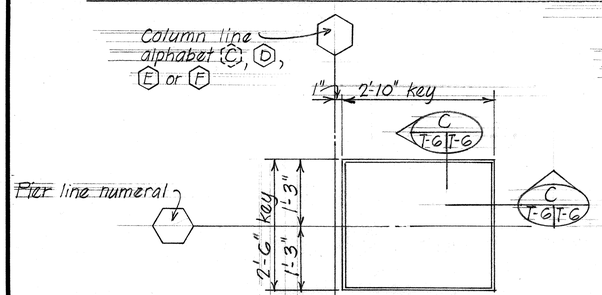
SIDE ELEVATION - AT EXISTING COLUMN LINE (C)

SIDE ELEVATION - AT COLUMN LINE (D), (E), (F)

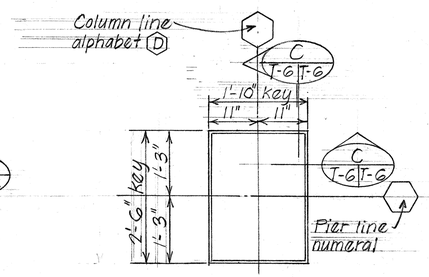
SIDE ELEVATION - AT COLUMN LINE (D)

TYPICAL PIER FRAME COLUMN TYPE I (HINGE BASE) REINFORCEMENT DETAILS

Not to scale

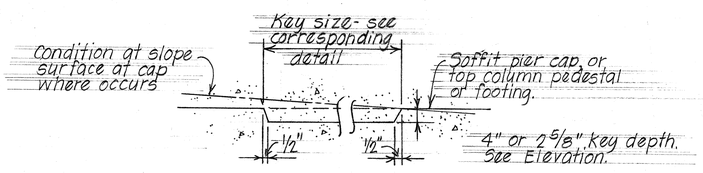


AT TOP COLUMN KEY



AT BASE FIXED COLUMN KEY

PLANS - COLUMN KEY DETAILS Scale: 3/4" = 1'-0"



TYPICAL SECTION

TYPICAL PIER FRAME COLUMN TYPE II (FIXED BASE) REINFORCEMENT DETAILS

Not to scale

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE Nov. '78
	DRAWN BY NY	" "
	TRACED BY	" "
NOTE BOOK	DESIGNED BY DCO	" "
	QUANTITIES BY	" "
No.	CHECKED BY DCO, FG	" "

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

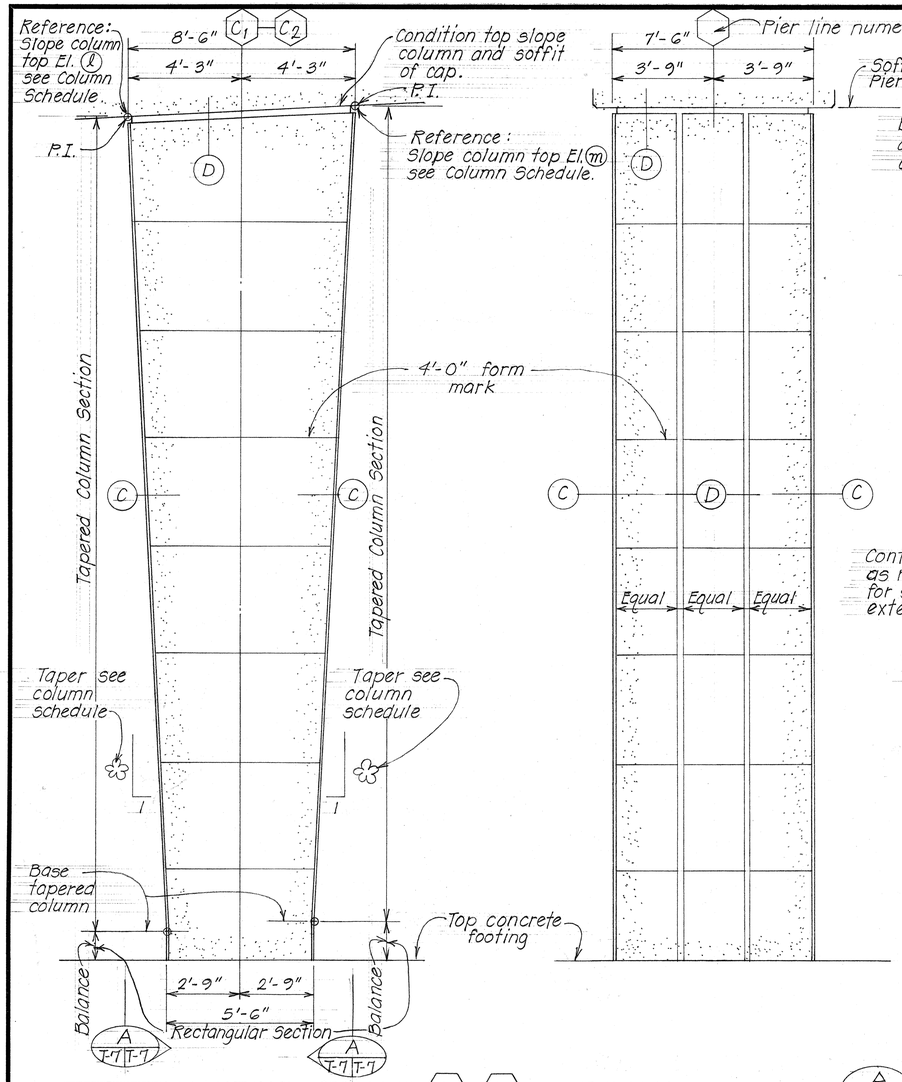
TYPICAL DETAILS
PIER FRAME COLUMN TYPES I, II
REINFORCEMENT DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: AS NOTED DATE: NOV. 1978

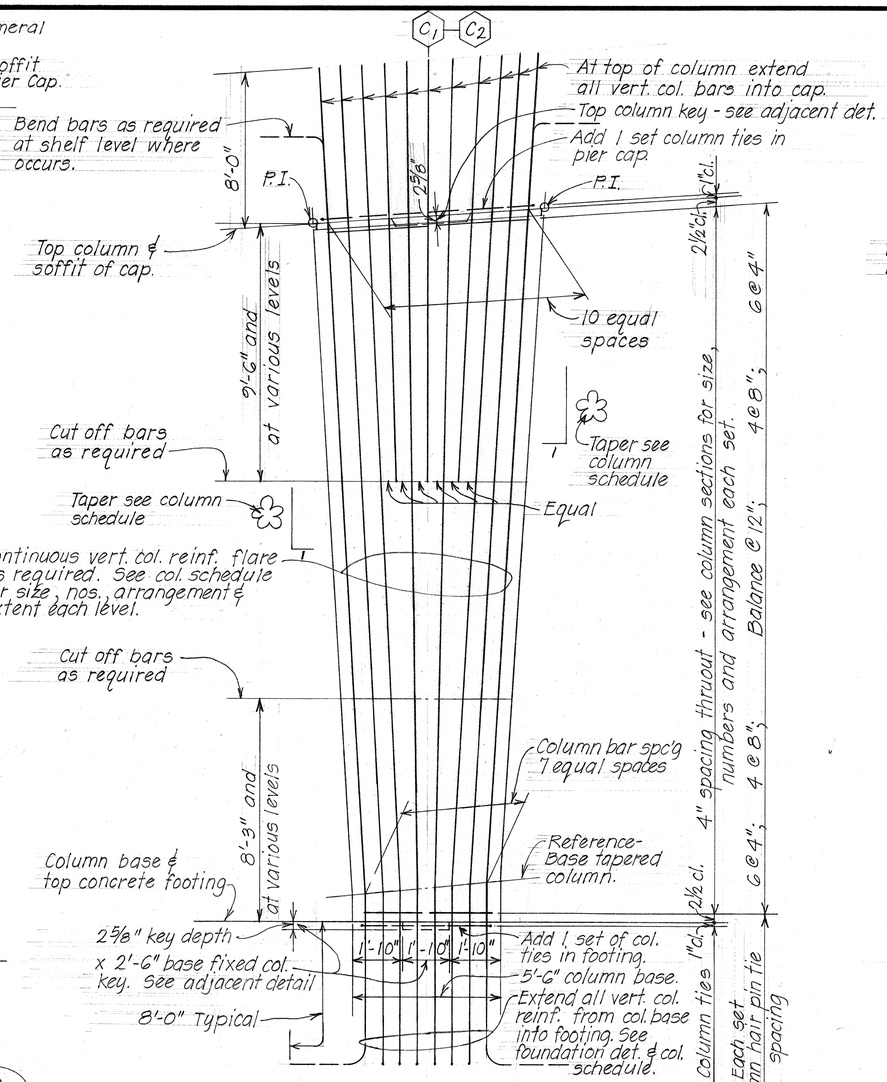
SHEET No. T-6 OF 2[0] SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	178	230



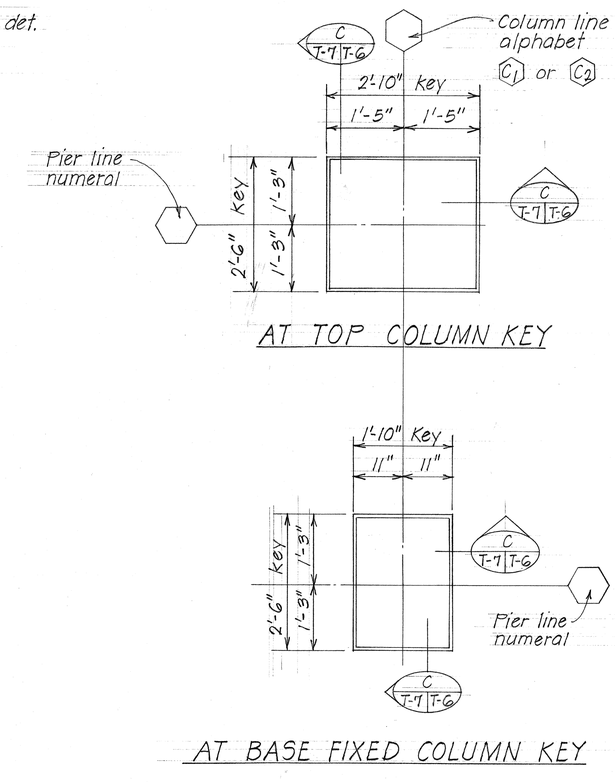
SIDE ELEVATION - COL. LINE (C1), (C2)

TYPICAL ELEVATION (A T-7 | T-7)



DIMENSIONS AND DETAILS

COLUMN REINFORCEMENT DETAILS



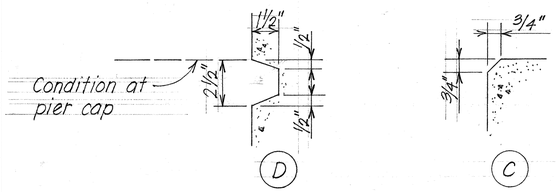
PLANS

COLUMN KEY DETAILS

Scale: 3/4" = 1'-0"

TYPICAL PIER FRAME COLUMN TYPE IV (FIXED BASE)

No Scale



GROOVE AND CHAMFER DETAILS

ORIGINAL PLAN	SURVEY PLOTTED BY	LMA	DATE	Nov. '78
	DRAWN BY	"		"
	TRACED BY	"		"
NOTE BOOK	DESIGNED BY	DCO		
No.	QUANTITIES BY			
	CHECKED BY	DCO	FC	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

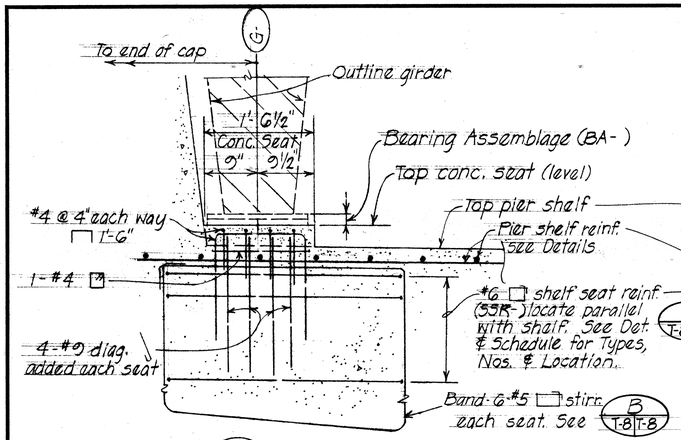
TYPICAL DETAILS
PIER FRAME COLUMN
TYPE IV DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: AS NOTED DATE: NOV. 1978

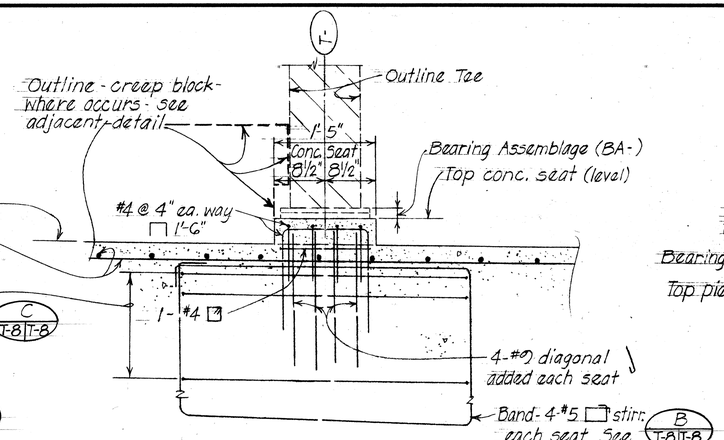
SHEET No. T-7 OF 29 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(56)16	1979	179	236

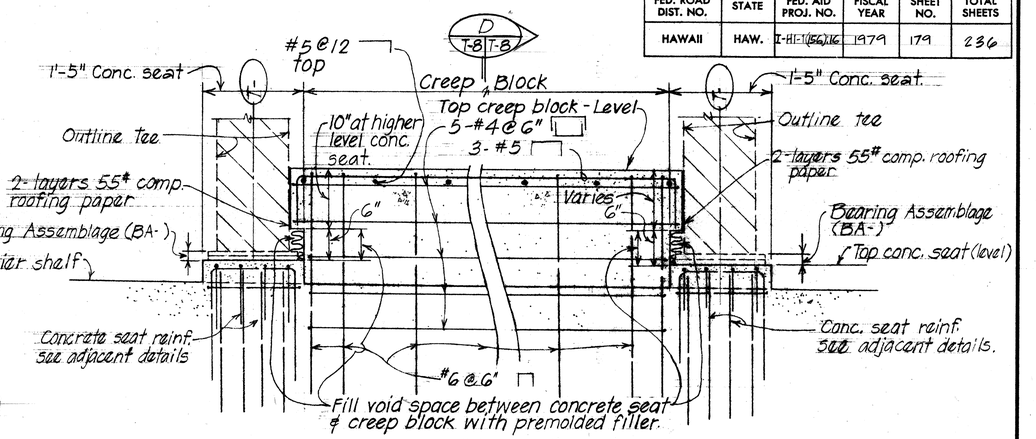


AT (G3) AS SHOWN

(G4) SIMILAR EXCEPT OPPOSITE HAND



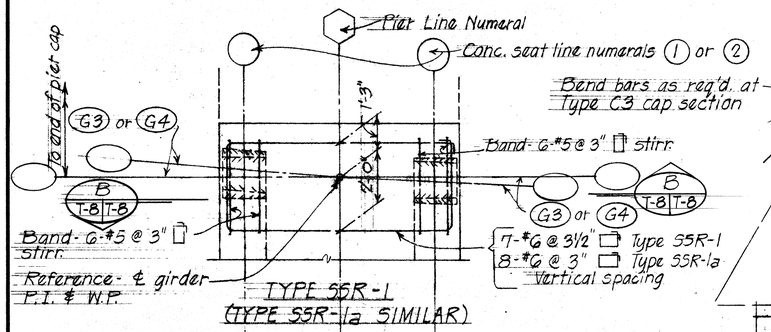
TYPICAL INTERIOR TEE



AT CREEP BLOCK

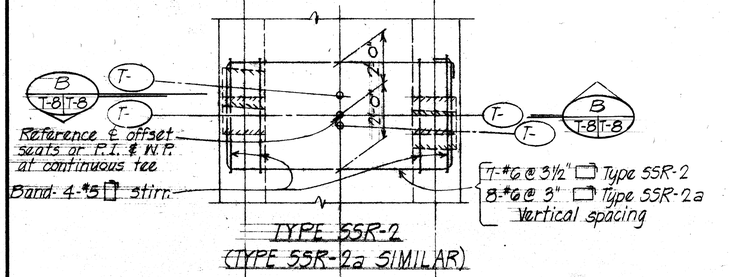
TYPICAL SECTION A T-8 T-8

Scale: 1" = 1'-0"



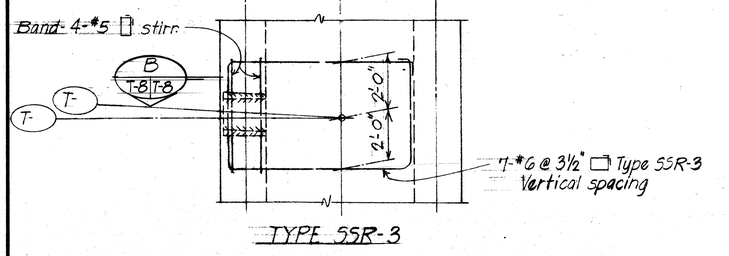
TYPE SSR-1

(TYPE SSR-1a SIMILAR)



TYPE SSR-2

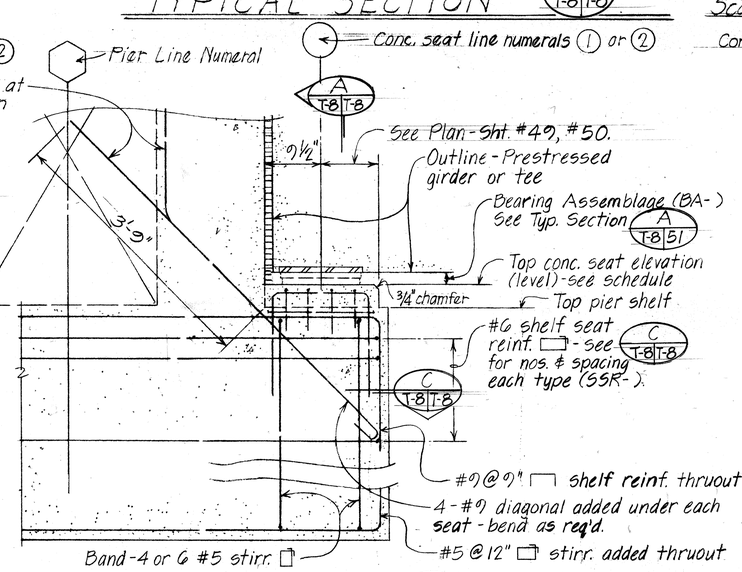
(TYPE SSR-2a SIMILAR)



TYPE SSR-3

C T-8 T-8 TYPICAL PIER SHELF SEAT REINFORCEMENT (SSR-)

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



TYPICAL SEAT SECTION B T-8 T-8

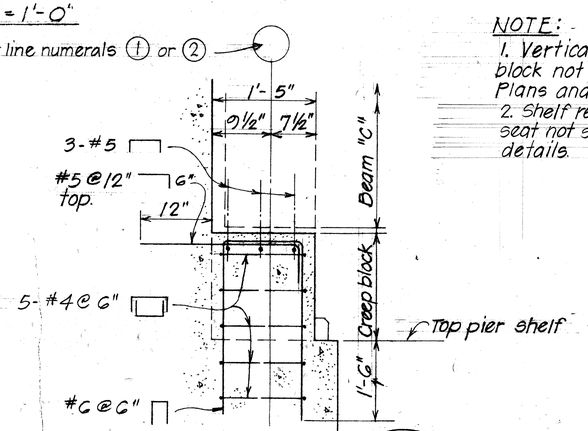
Scale: 1" = 1'-0"

40, 50

NOTE:

Refer to corresponding concrete seat & creep block location schedule, Sht. #52 thru #55 inclusive for location of shelf seat reinforcement types. Refer to Sht. #49, #50 and #51 for concrete seat details.

Scale: 1" = 1'-0"



TYPICAL SECTION D T-8 T-8

Scale: 1" = 1'-0"

NOTE:

1. Vertical restrainers at creep block not shown. Refer to Framing Plans and sheet # T-15.
2. Shelf reinforcement at each concrete seat not shown. Similar as adjacent details.

ORIGINAL PLAN | NOTE BOOK | No.

DATE 11-78

SURVEY PLOTTED BY N.Y.
DRAWN BY
TRACED BY DCO
DESIGNED BY
QUANTITIES BY
CHECKED BY DCO, EC

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS
PIER FRAME SHELF - GIRDER & TEE CONCRETE SEAT REINFORCING & DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156)16

SCALE: AS NOTED DATE: NOV. 1978

SHEET No. T-8 OF 29 SHEETS

179

K&E CRYSTALENE® TRACING PAPER

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156)16	1979	180	236

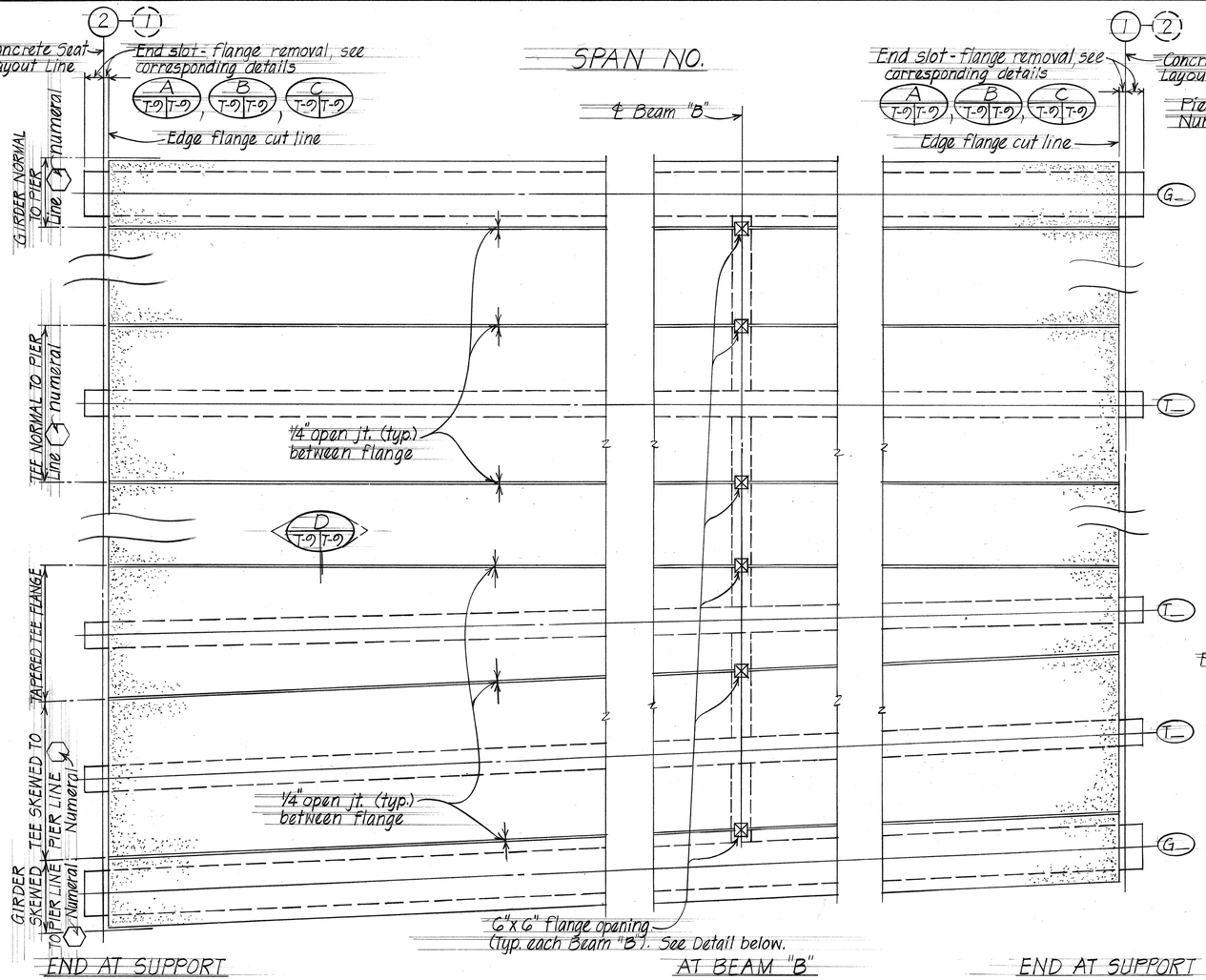
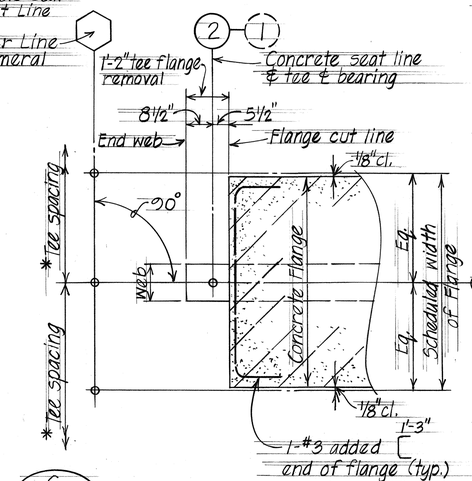
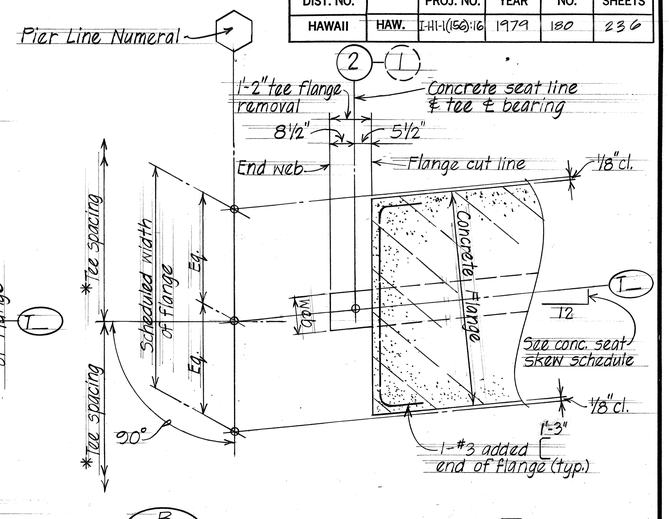
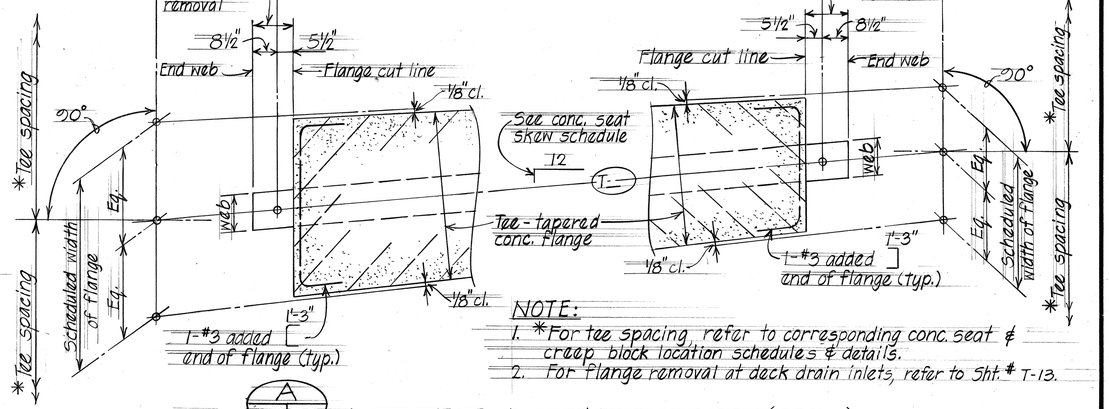


DIAGRAM - TYPICAL PRESTRESSED TEE AND GIRDER FLANGE DETAIL FOR VARIOUS LOCATIONS AT EACH SPAN Not to Scale





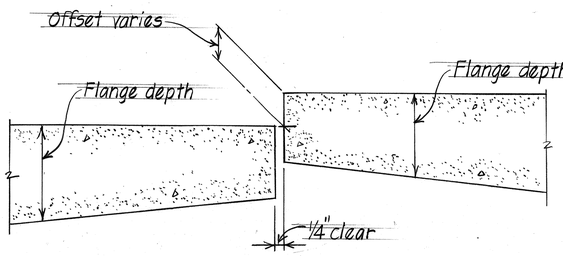
PRESTRESSED TEE (PT-) - AS SHOWN
(PRESTRESSED GIRDER (PG -) - SIMILAR)



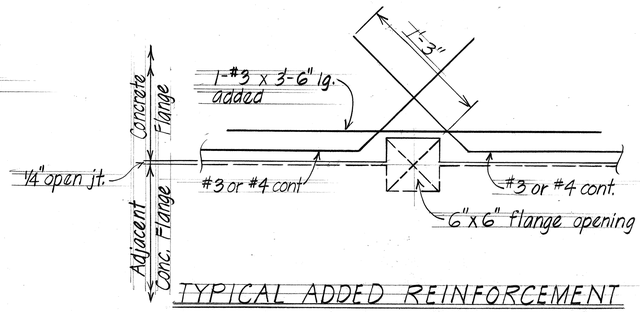
NOTE:
1. *For tee spacing refer to corresponding conc. seat & creep block location schedules & details.
2. For flange removal at deck drain inlets, refer to Sht. # T-13.

A T-9 | T-9 PRESTRESSED TAPERED TEE (PTT-)
68, T-12

TYPICAL PRESTRESSED TEE OR GIRDER END DETAILS
Not to Scale



TYPICAL SECTION D T-9 | T-9
Scale: 6" = 1'-0"



TYPICAL ADDED REINFORCEMENT AT FLANGE OPENING
Scale: 1½" = 1'-0"

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	11-78
	DRAWN BY NY	"
	TRACED BY DCO	"
	DESIGN BY	"
NOTE BOOK	QUANTITIES BY	"
No.	CHECKED BY DCO, EC	"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

TYPICAL DETAILS
PRESTRESSED GIRDER & TEE DETAILS

AIRPORT VIADUCT (EB) - PART I
AIRPORT INTERCHANGE - F.A.I. PROJ. NO. I-HI-1(156)16

Scale: As Noted Date: Aug. 1978

SHEET No. T-9 OF 29 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	181	236

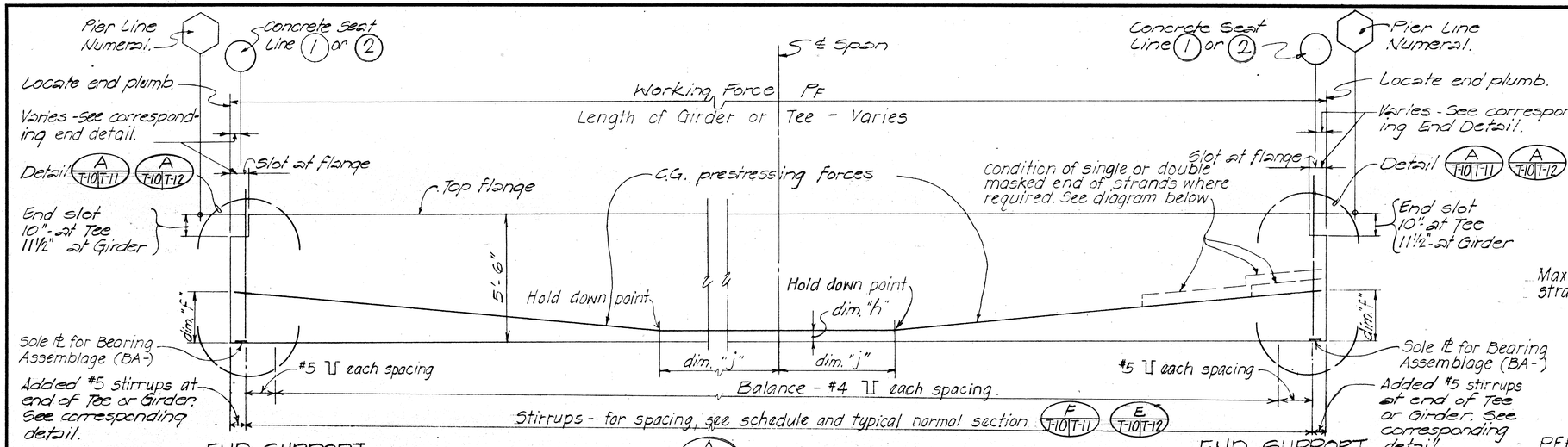
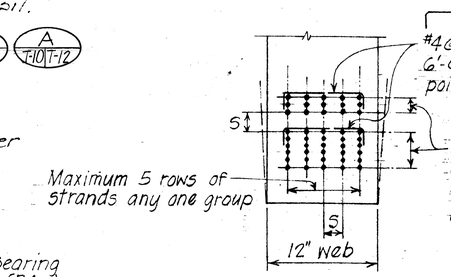


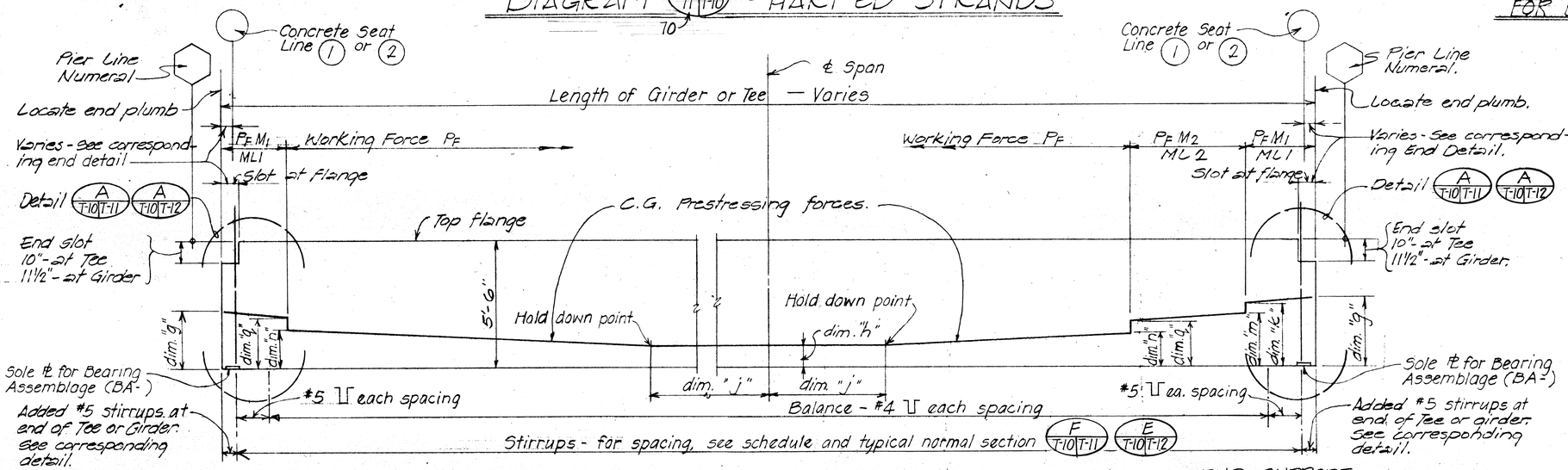
DIAGRAM A 71 T-10 ~ HARPED STRANDS

10



S = Minimum distance between groups of strands measured between centers of adjacent strands. 2" for ½" strands.

PERMISSABLE ARRANGEMENT AND CLEARANCES FOR BUNDLING OF PRESTRESSING REINFORCEMENT



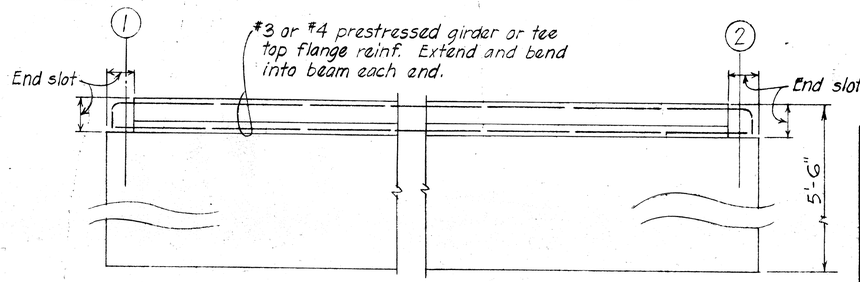
HALF - END AT SINGLE MASKED STRANDS

HALF - END AT DOUBLE MASKED STRANDS

DIAGRAM B 70 T-10 - HARPED STRANDS WITH MASKED ENDS OF STRANDS

NOTES:

1. For Design Stresses, refer to Sht. #T-1 & Shts. #70, #71.
2. Refer to Sht. #70, #71 for Prestressed Girder & Tee Type Schedules.
3. For additional holes & inserts in prestressed tee & girders - for beams, railing connections, refer to corresponding detail drawings.
4. Refer to Shts. #T-9, #T-11, #T-12, #T-13 for additional Typical Prestressed Tee & Girder Details & Reinf. For additional prestressed tee & girder details not covered by these drawings, refer to corresponding detail plans.
5. All strand patterns shall be approved by the Engineer.
6. Prestressed girders & tees shall be constructed on grade between seat elevations each end. Ends of girders and tees to be plumb, see note above.



TYPICAL GIRDER OR TEE FLANGE REINFORCEMENT DETAILS AT END SUPPORT Not to Scale

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE Nov. '78
	DRAWN BY K.Y.	
	TRACED BY	
NOTE BOOK	DESIGNED BY P.C.O. W.A.	
	QUANTITIES BY	
No.	CHECKED BY DGO, EE	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

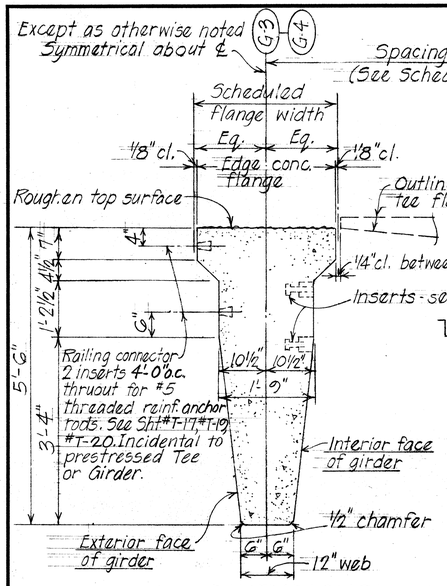
TYPICAL DETAILS
PRESTRESSED GIRDER & TEE DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

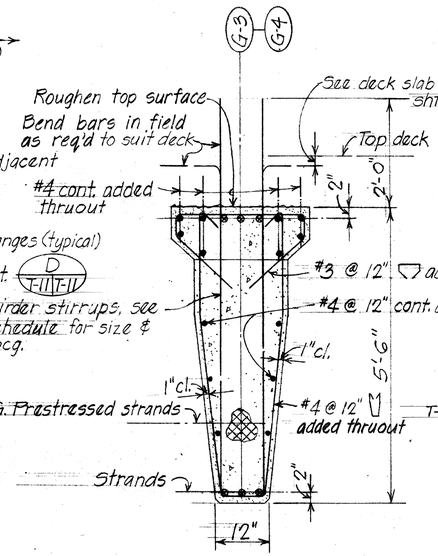
SCALE: NO SCALE DATE: NOV. 1978

SHEET No. T-10 OF 20 SHEETS

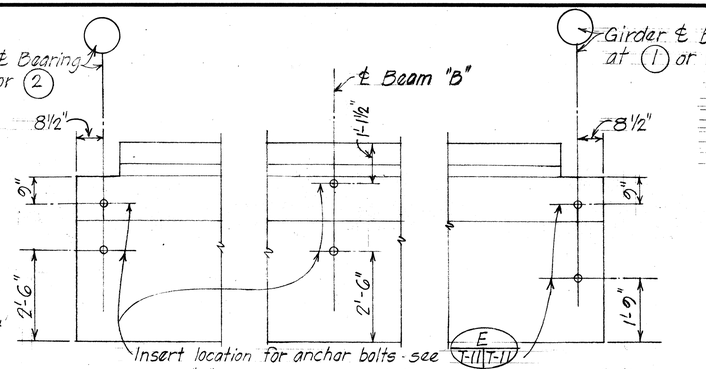
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	182	236



DIMENSIONS



SHOWING REINFORCEMENT

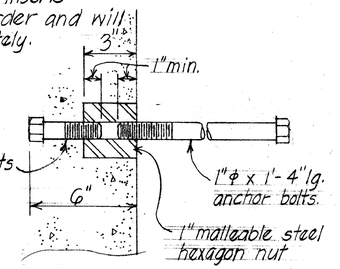


D T-11 T-11 TYPICAL INSERT LOCATION FOR ANCHOR BOLTS IN GIRDER AT CONCRETE BEAMS

T-15, T-14

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

NOTE: Anchor bolts & inserts incidental to tee or girder and will not be paid for separately.



E T-11 T-11 TYPICAL INSERT DETAIL

Scale: 3" = 1'-0"

F T-11 T-11 TYPICAL NORMAL SECTION THRU PRESTRESSED GIRDER (PG-)

Scale: 3/4" = 1'-0"

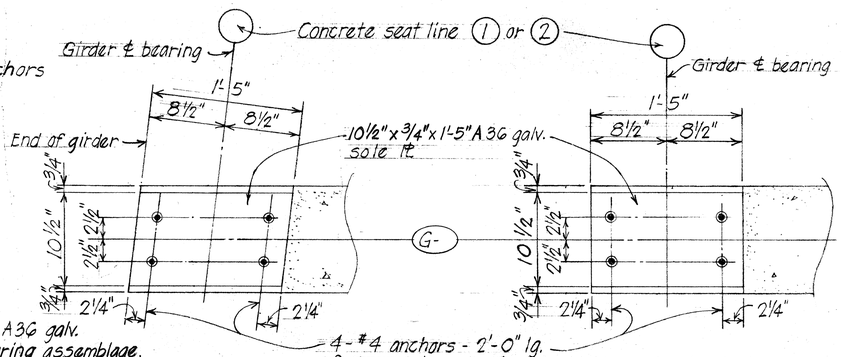
T-10
T-17
T-19
T-20

END DETAIL A T-10 T-11

Scale: 1" = 1'-0"

SECTION B T-11 T-11

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



TYPICAL SECTION C T-11 T-11 SOLE ℔ DETAIL

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

NOTES:

Refer to Sht.#T-9, #T-10 for additional typical prestressed girder details.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS
PRESTRESSED GIRDER DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

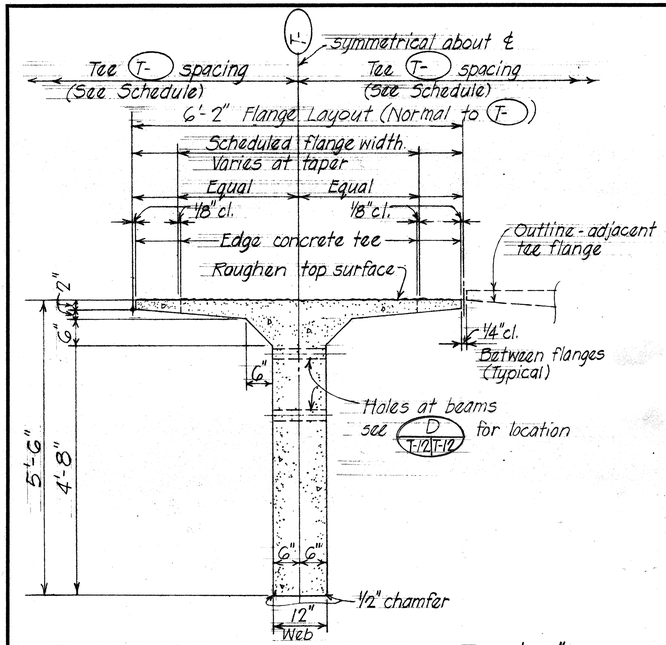
SCALE: AS NOTED DATE: NOV. 1978

SHEET No. T-11 OF 29 SHEETS

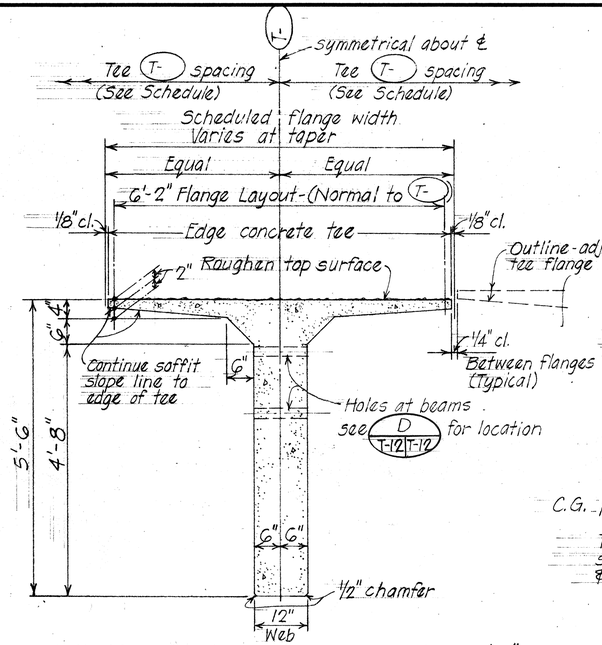
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE Nov. '78
NOTE BOOK	DRAWN BY N.Y.	
No.	TRACED BY	
	DESIGNED BY D.C.O.	
	QUANTITIES BY	
	CHECKED BY DOO, EE	

K+E CRYSTALENE TRACING PAPER

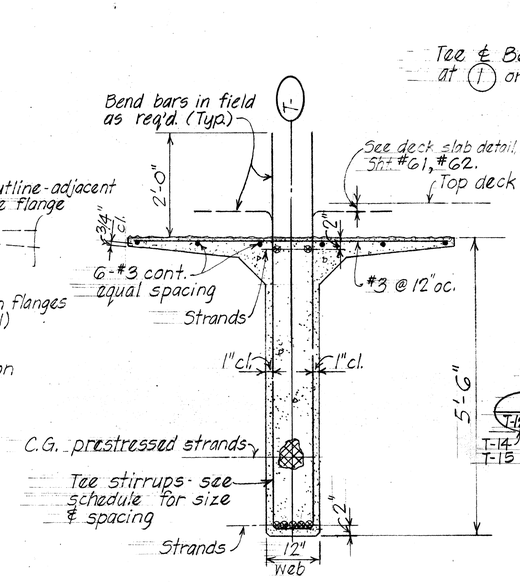
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	T-HI-1(156):16	1979	183	236



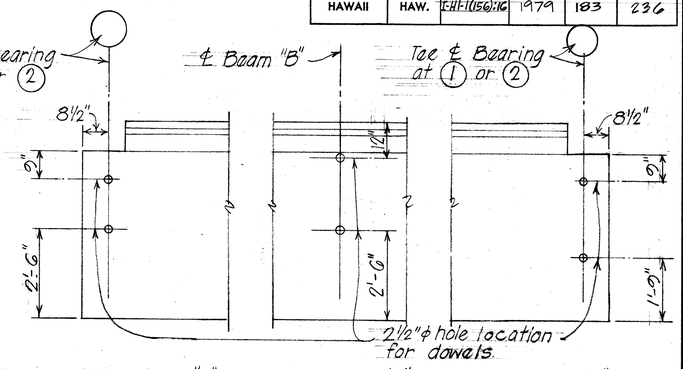
DIMENSIONS - AT FLANGE WIDTH ≤ 6'-2"



DIMENSIONS - AT FLANGE WIDTH > 6'-2"



SHOWING REINFORCEMENT



AT BEAMS "C" AT BEAMS "B" AT BEAMS "A"

(D) T-12 | T-12 TYPICAL HOLE LOCATION FOR DOWELS IN TEE AT CONCRETE BEAMS

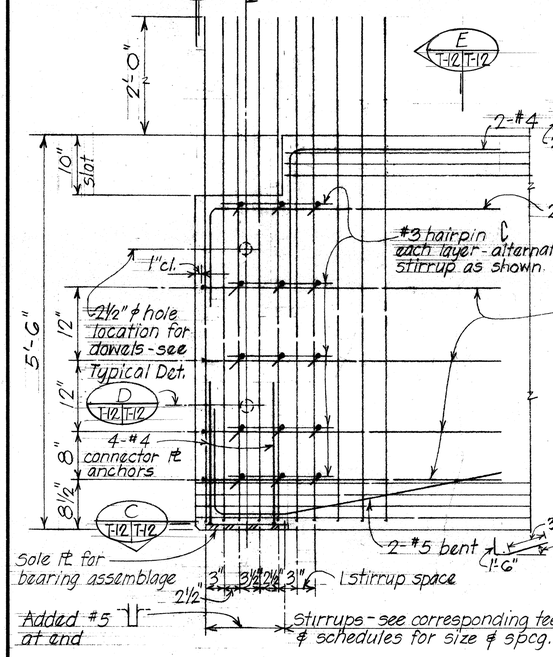
Scale: 1/2" = 1'-0"

NOTES:

Refer to Sht #T-9, #T-10 for additional prestressed tee details.

(E) T-10 | T-12 TYPICAL NORMAL SECTION THRU PRESTRESSED TEE (PT-), (PTT-)

Scale: 3/4" = 1'-0"

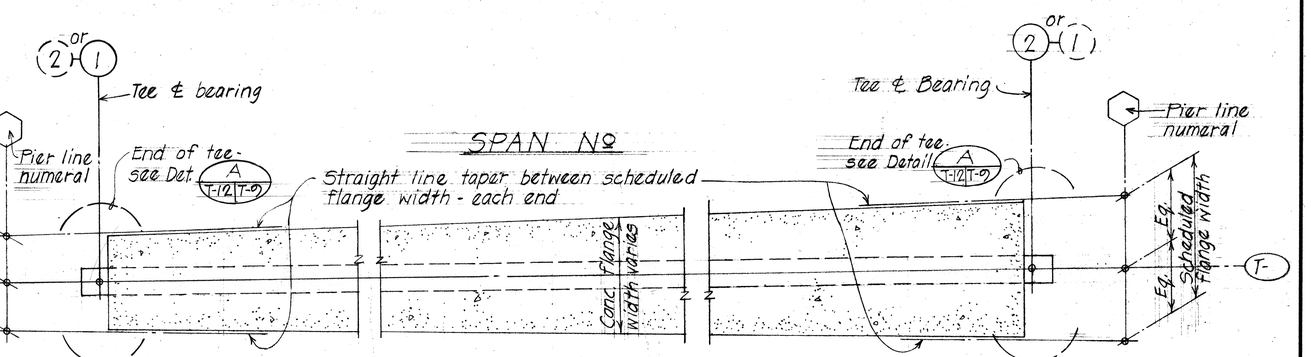


END DETAIL (A) T-10 | T-12

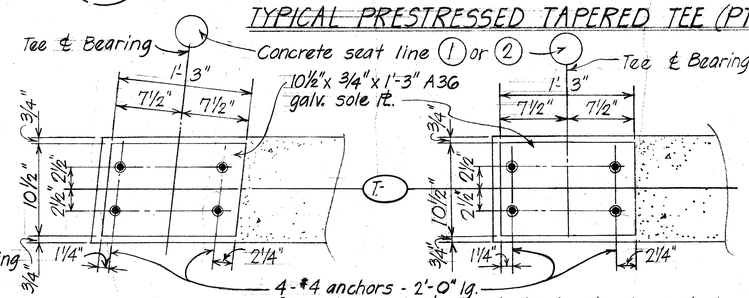
Scale: 1" = 1'-0"

SECTION (B) T-12 | T-12

Scale: 1½" = 1'-0"



TYPICAL PRESTRESSED TAPERED TEE (PTT-) DETAIL Not to Scale



AT SKEWED ENDS OF TEE AT NORMAL ENDS OF TEE

TYPICAL SECTION (C) T-12 | T-12 SOLE ℔ DETAIL Scale: 1½" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS
PRESTRESSED TEE DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: AS NOTED DATE: NOV. 1978

SHEET No. T-12 OF 29 SHEETS

ORIGINAL PLAN		DATE Nov. '78
SURVEY PLOTTED BY	N.C.	"
DRAWN BY		"
TRACED BY		"
DESIGN BY	D.C.O.	"
QUANTITIES BY		"
CHECKED BY	D.C.O., E.C.	"
NOTE BOOK		
No.		

K&E CRYSTALENE® TRACING PAPER

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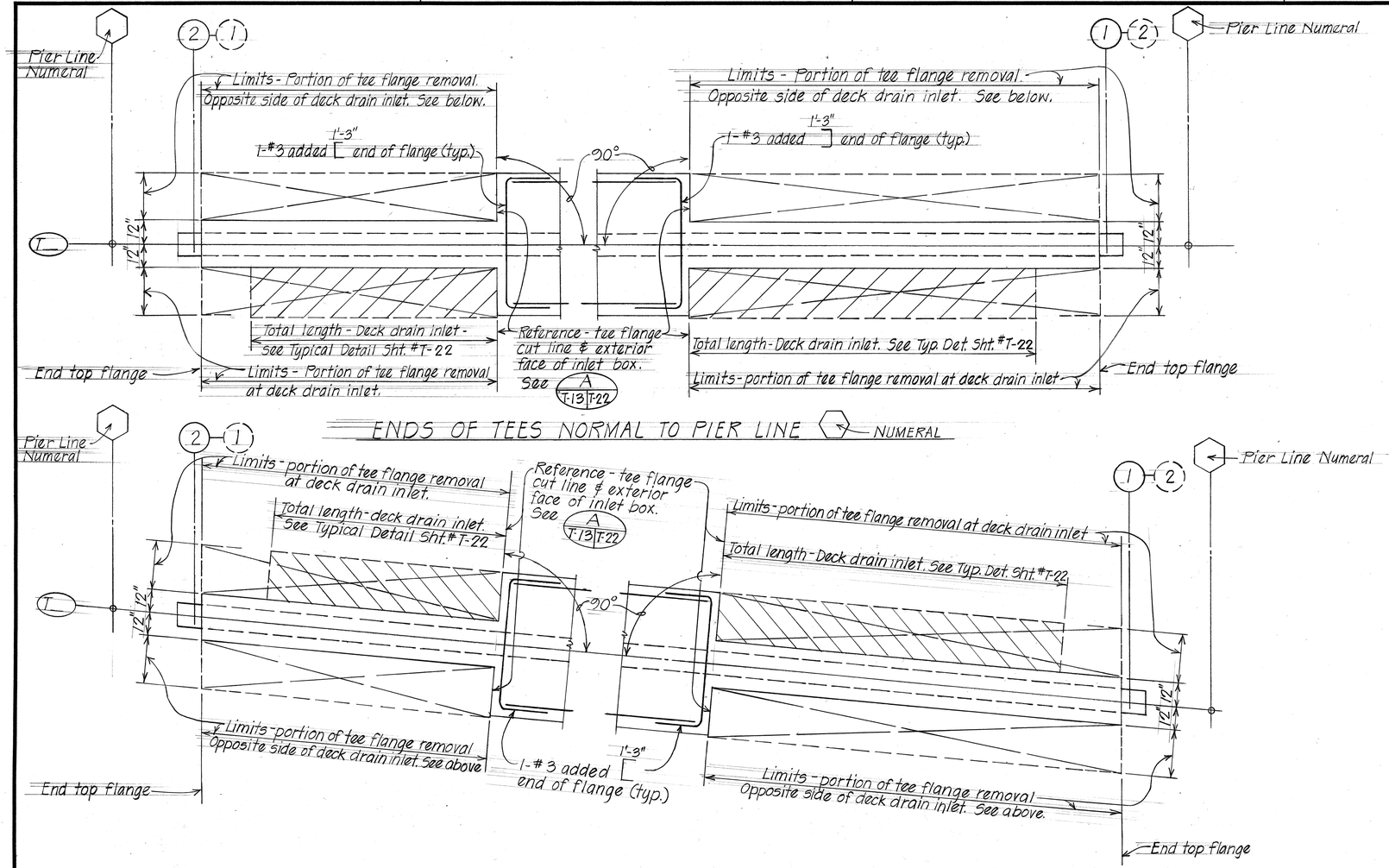
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-I(156):16	1979	184	236



TYPICAL PRESTRESSED TEE FLANGE DETAILS AT INLET BOX DRAIN - VARIOUS CONDITIONS

Not to Scale

NOTE: In general, where inlet box Types I2-10', 15', 25' occur at one or both ends of tee, omit portion of flanges at each side of tee as indicated on corresponding details above. For exact location & number of inlet boxes at various tee, refer to corresponding deck layout, framing plans & schedules.

ORIGINAL PLAN
NOTE BOOK No.
SURVEY PLOTTED BY
DRAWN BY M.L. NOV. '78
TRACED BY
DESIGNED BY D&O
QUANTITIES BY
CHECKED BY D&O, EG

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

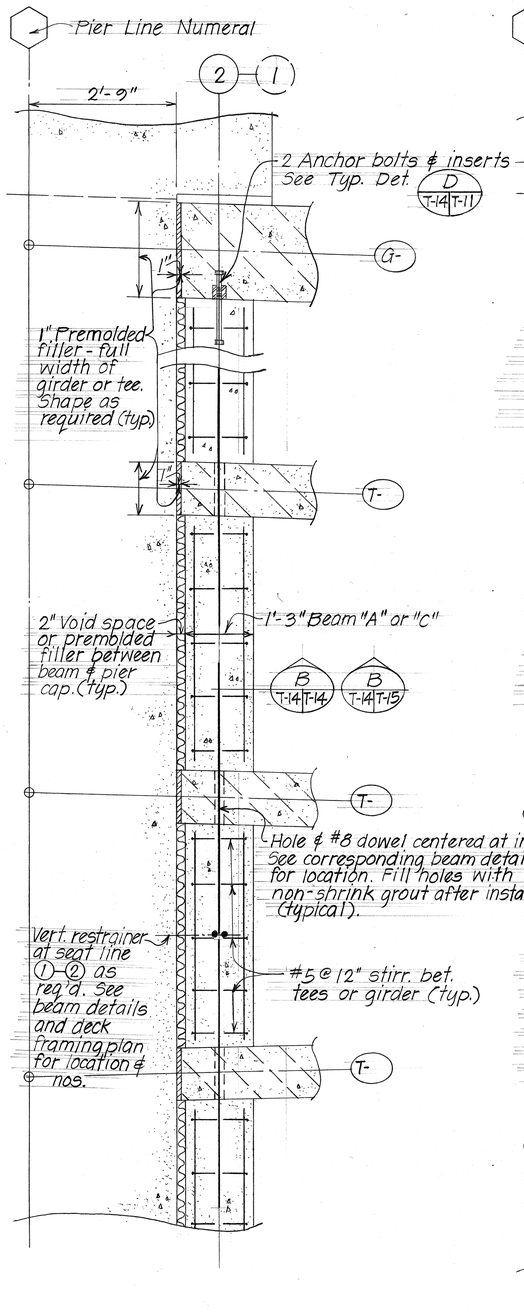
TYPICAL DETAILS

SPECIAL PRESTRESSED TEE DETAILS AT DECK DRAIN INLETS

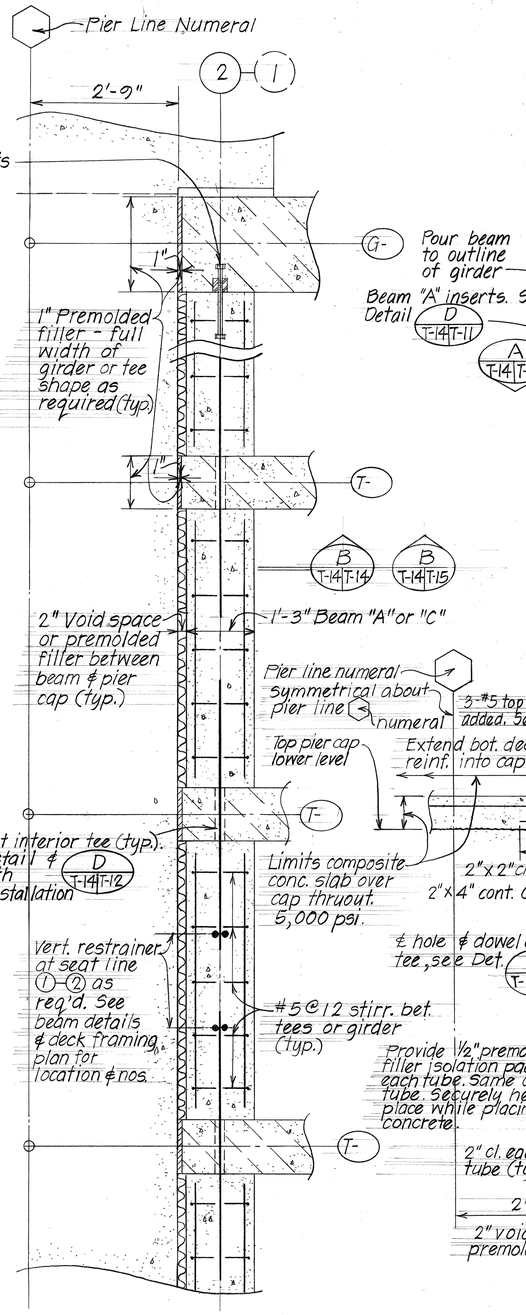
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-I(156):16
SCALE: As Noted Date: NOV. 1978

SHEET No. T-13 OF 29 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156);16	1979	185	236



AT SKEW ENDS OF TEE OR GIRDER

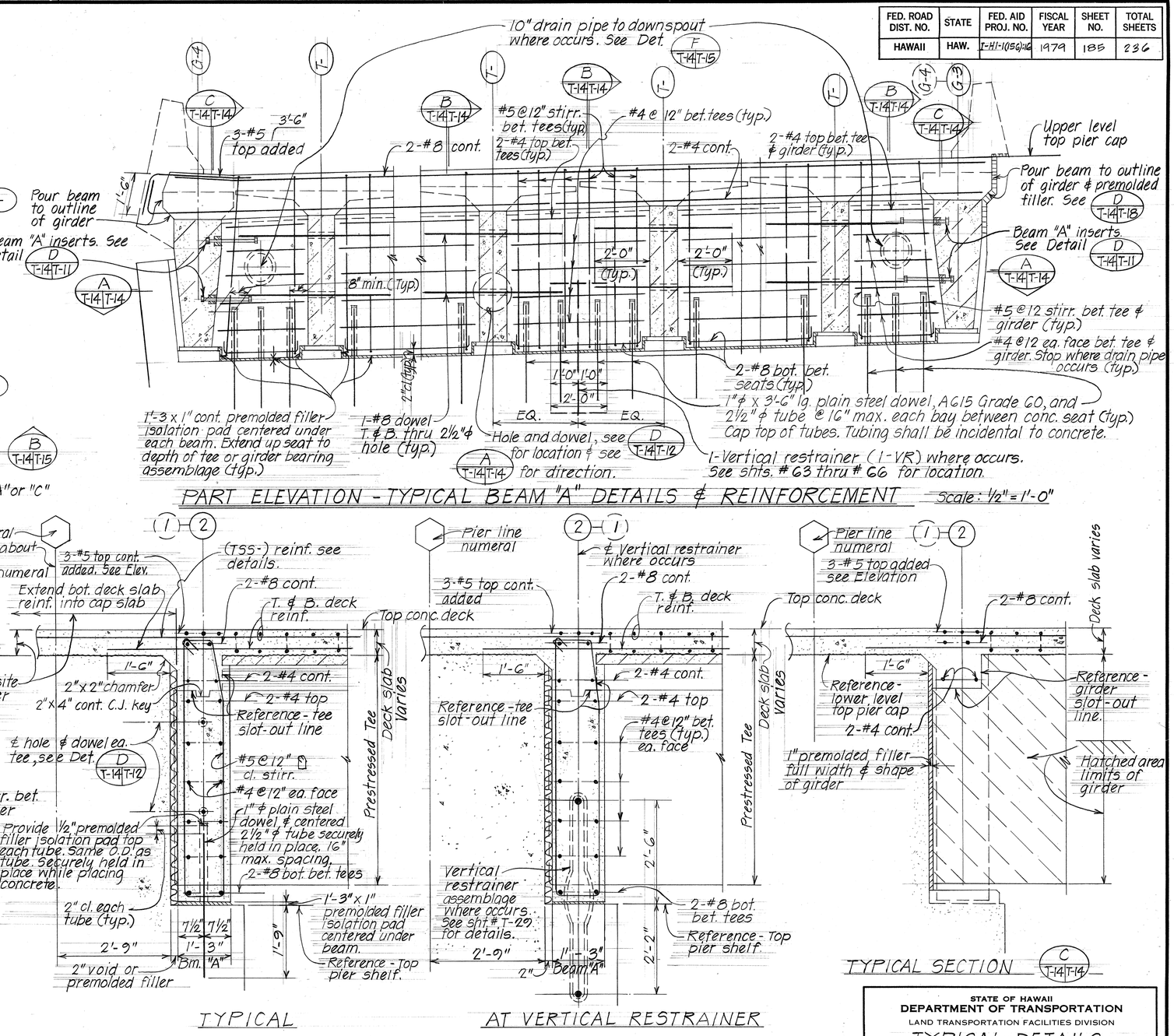


TEE OR GIRDER NORMAL TO PIER

TYPICAL SECTION (A T-14 T-14) - BEAMS "A" OR "C"

T-15

Scale: 3/4" = 1'-0"



PART ELEVATION - TYPICAL BEAM "A" DETAILS & REINFORCEMENT

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

TYPICAL

AT VERTICAL RESTRAINER

TYPICAL SECTIONS (B T-14 T-14)

Scale: 3/4" = 1'-0"

42

TYPICAL SECTION (C T-14 T-14)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

TYPICAL DETAILS BEAMS "A" & "C" DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

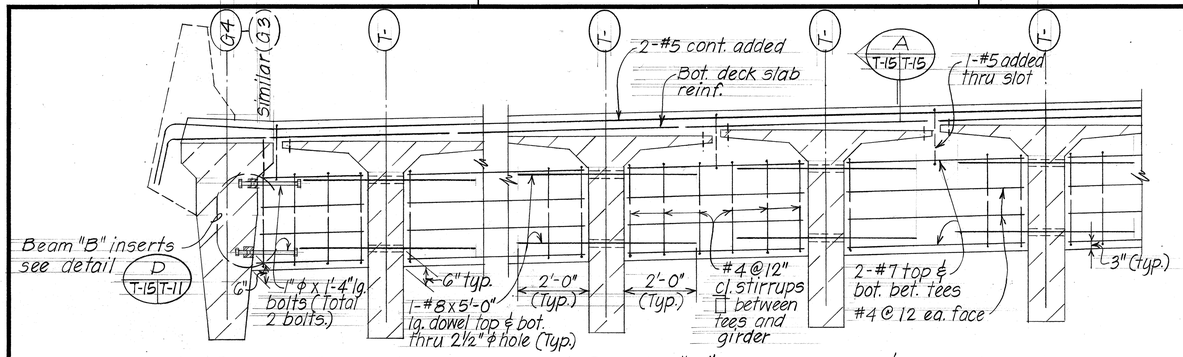
SCALE: AS NOTED DATE: NOV. 1978

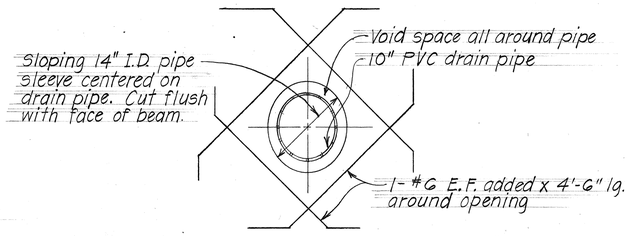
SHEET NO. T-14 OF 29 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY I.M.A	"
NOTE BOOK	TRACED BY	"
	DESIGNED BY D.C.O	"
No.	QUANTITIES BY	"
	CHECKED BY D.C.O., E.C.	"

185

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-(156)16	1979	186	236



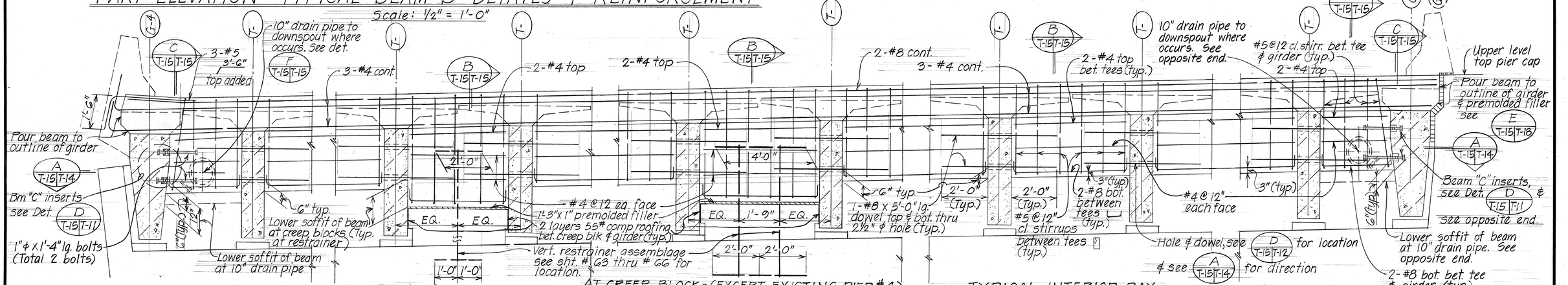


ELEVATION - DETAIL F T-15 T-15 T-14

Scale: 1" = 1'-0"

PART ELEVATION - TYPICAL BEAM "B" DETAILS & REINFORCEMENT

Scale: ½" = 1'-0"



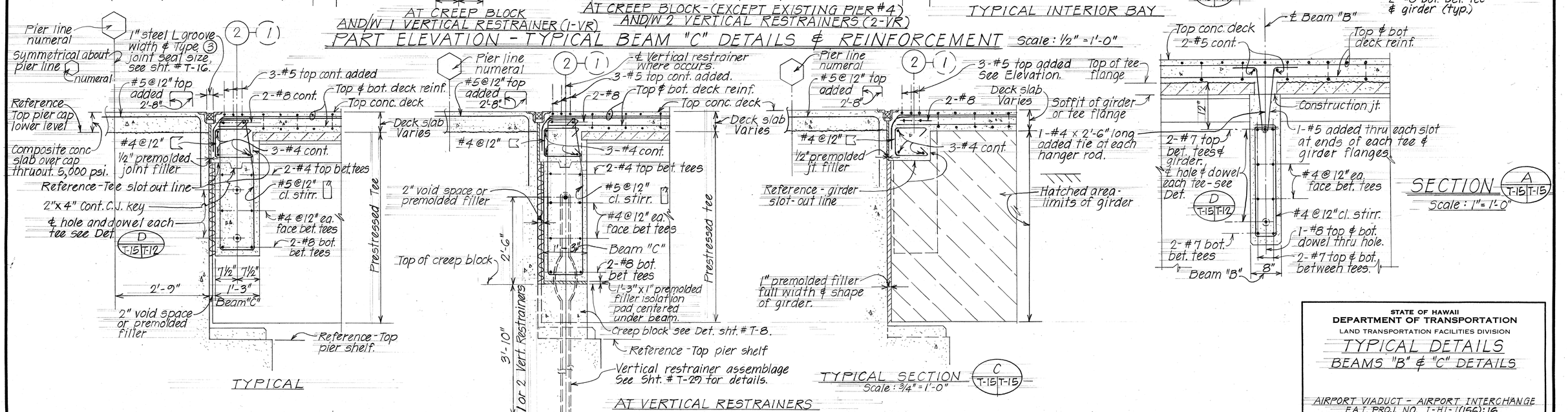
AT CREEP BLOCK AND/W 1 VERTICAL RESTRAINER (1-VR)

AT CREEP BLOCK - (EXCEPT EXISTING PIER #4) AND/W 2 VERTICAL RESTRAINERS (2-VR)

TYPICAL INTERIOR BAY

PART ELEVATION - TYPICAL BEAM "C" DETAILS & REINFORCEMENT

Scale: ½" = 1'-0"



SECTION A T-15 T-15

Scale: 1" = 1'-0"

TYPICAL SECTIONS

B T-15 T-15 14

Scale: 3/4" = 1'-0"

ORIGINAL PLAN	NOTE BOOK	No.
SURVEY PLOTTED BY	
DRAWN BY	MA
TRACED BY	
DESIGNED BY	DCO
QUANTITIES BY	
CHECKED BY	DCO, FC
DATE	" " " " "

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

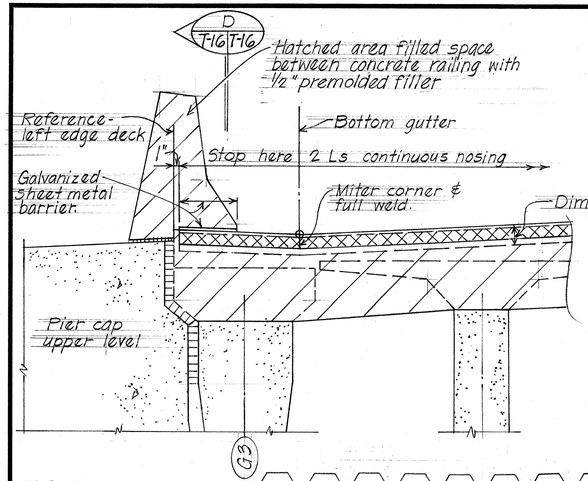
TYPICAL DETAILS
BEAMS "B" & "C" DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

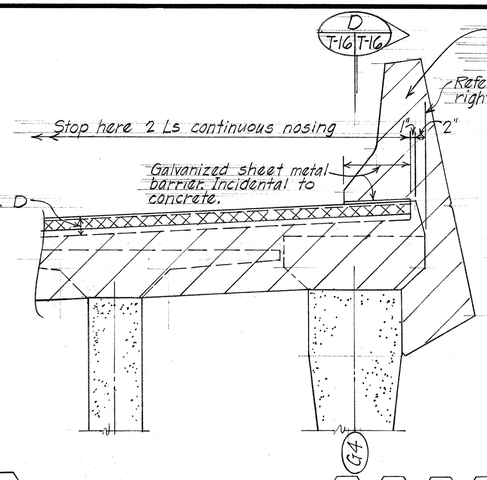
SCALE: AS NOTED DATE: NOV. 1978

SHEET No. T-15 OF 20 SHEETS

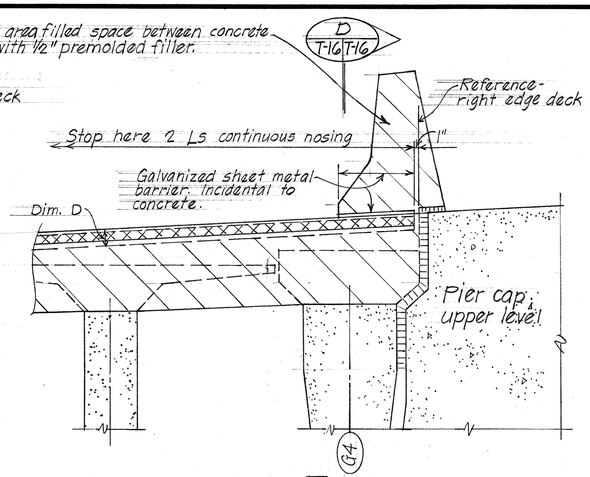
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	187	236



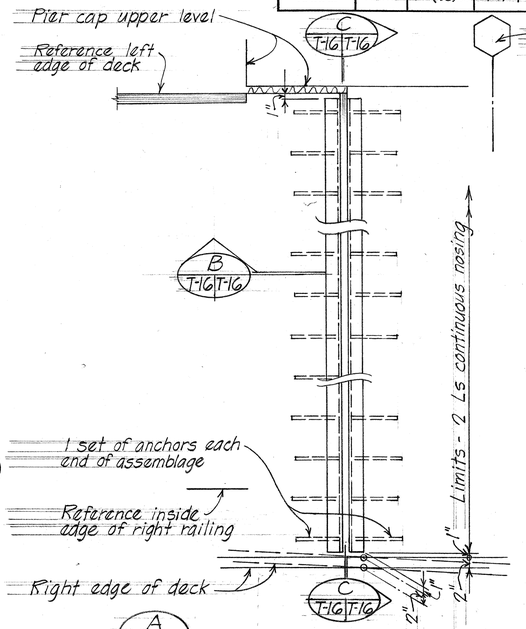
AT PIER LINES ⟨3⟩,⟨5⟩,⟨7⟩,⟨9⟩,⟨11⟩,⟨13⟩,⟨15⟩,⟨17⟩
(AT EXISTING PIER #4 SIMILAR-SEE A 10 48)



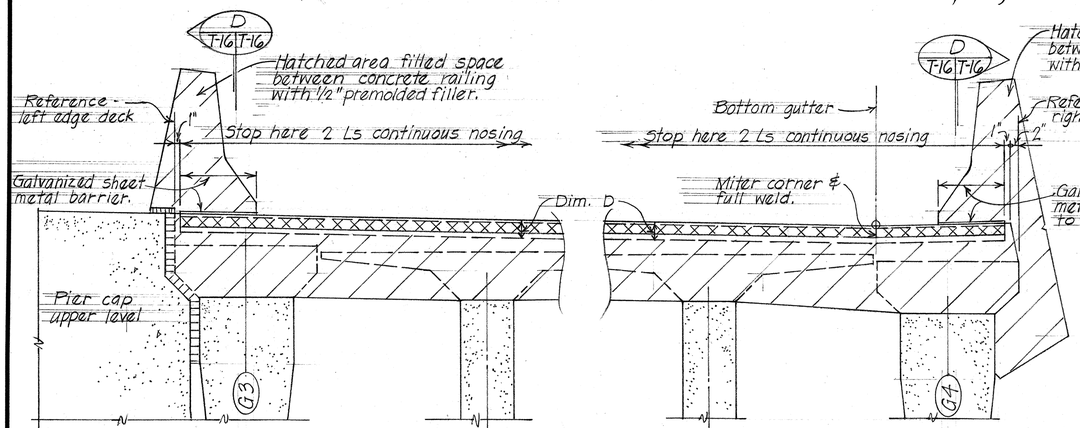
AT PIER LINES ⟨5⟩,⟨7⟩,⟨9⟩,⟨11⟩,⟨13⟩,⟨15⟩,⟨17⟩



AT PIER LINE ⟨3⟩
(AT EXISTING PIER #4 SIMILAR-SEE D 10 48)

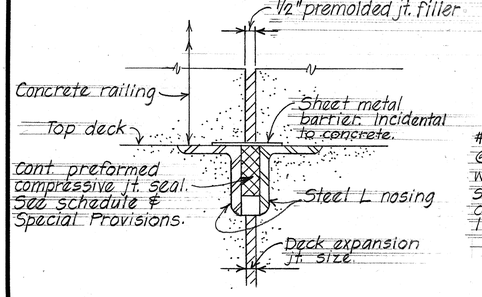


PLAN - TRANSVERSE DECK EXPANSION JOINT AT PIERS

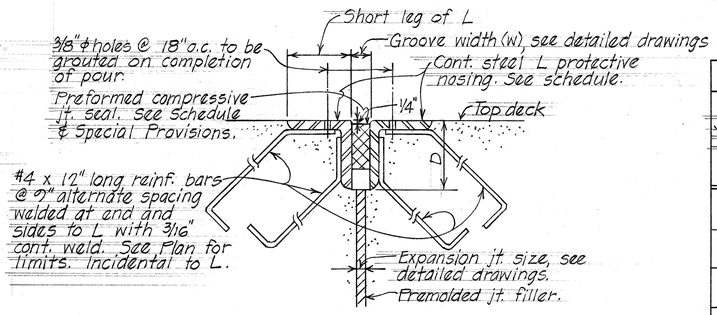


DECK EXPANSION JOINTS AT PIERS
BETWEEN I.B. STA. 131 + 00 TO STA. 138 + 28.75

TYPICAL ELEVATION (C T-16 T-16) 48



SECTION (D T-16 T-16)

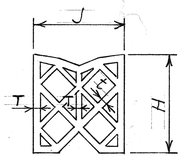


AT STEEL ANGLE PROTECTIVE NOSING

TYPICAL SECTION (48,12) (B T-16 T-16)

EXPANSION JOINT SEALER SCHEDULE

Joint Seal Size	Type A - Joint Sealer (Dimensions and Tolerances) J	H	Thickness T	t	Steel Angle Protective Nosing	Groove Dim. D
③	2 +3/16 -0	2 1/16 ± 1/8	1/8	+1/32 -1/64	3/32 +1/32 -1/64	4" x 3½" x ½"	4"



TYPE A

NOTE:
Steel angle protective nosing assemblage shall be hot dipped galvanized after fabrication.
Joint sealer incidental to concrete and will not be paid for separately.

ORIGINAL PLAN	NOTE BOOK	No.
SURVEY PLOTTED BY	NT	DATE Nov. '78
DRAWN BY		
TRACED BY	DCO	
DESIGNED BY		
QUANTITIES BY	DCO, FG	
CHECKED BY		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

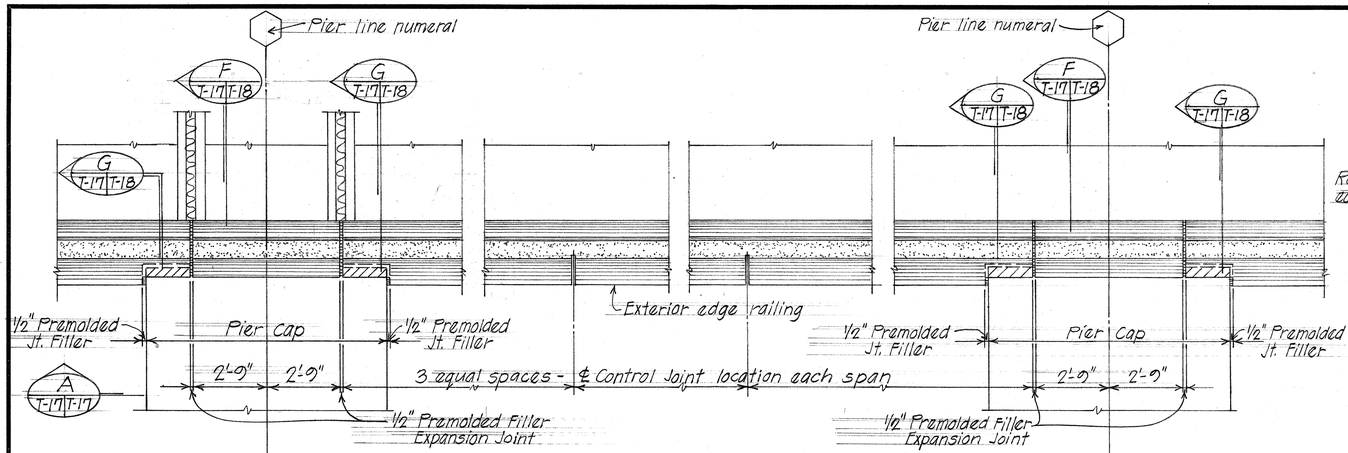
TYPICAL DETAILS
DECK EXPANSION JOINT SEALER & WATERPROOFING DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
FAI. PROJ. NO. I-HI-1(156):16

SCALE: DATE: NOV. 1978

SHEET No. T-16 OF 29 SHEETS

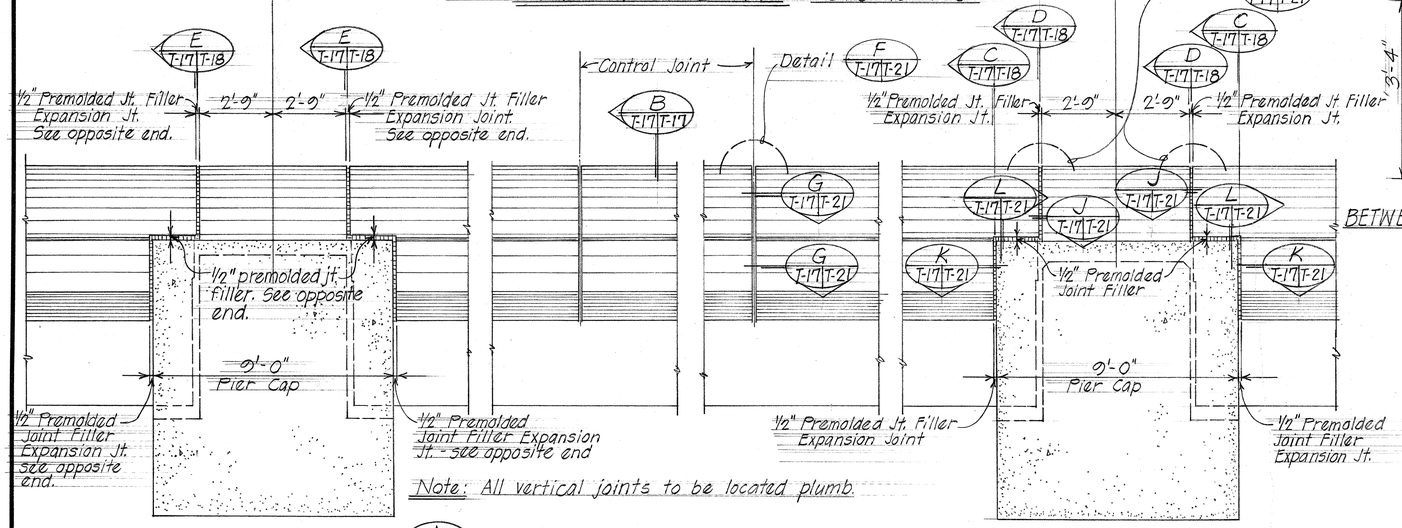
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	188	236



AT DECK EXPANSION JOINTS — INTERMEDIATE CONTROL JOINTS — CONTINUOUS DECK OVER PIER

PART PLAN

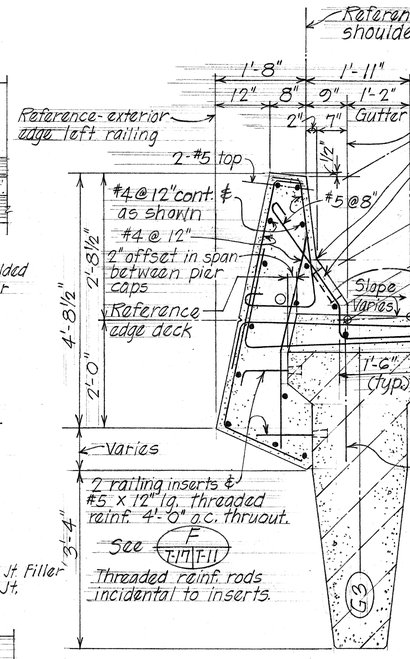
Scale: 3/8" = 1'-0"



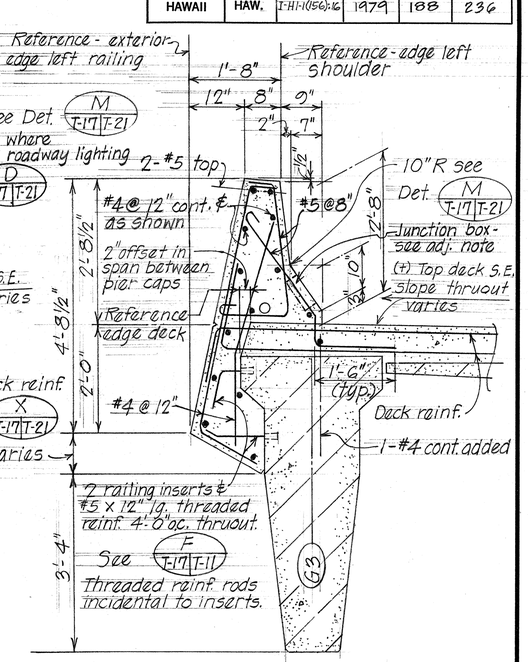
Note: All vertical joints to be located plumb.

A T-17 T-17 PART EXTERIOR ELEVATION

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



BETWEEN ℄ IB STA. 115 + 19.87 TO STA. 130 + 45.00



BETWEEN ℄ IB STA. 130+45.00 TO STA. 138+28.75

TYPICAL SECTION B T-17 T-17

T-18 T-25

Scale: 3/4" = 1'-0"

TYPICAL LEFT RAILING DETAILS BETWEEN ℄ IB STA. 115+19.87 TO STA 138+28.75 THRUOUT

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	Nov. '78
	DRAWN BY	"
	TRACED BY	"
	DESIGNED BY	"
NOTE BOOK	QUANTITIES BY	"
No.	CHECKED BY	"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

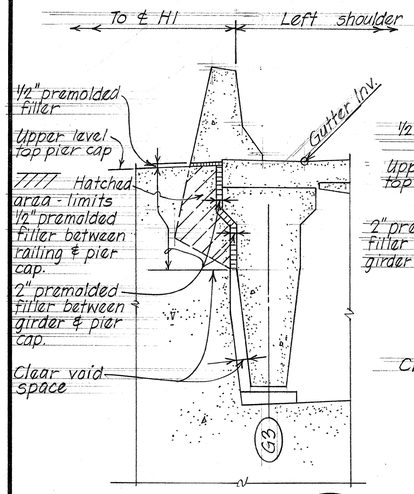
TYPICAL DETAILS
LEFT CONCRETE RAILING AND DECK DETAILS - VARIOUS LOCATIONS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: AS NOTED DATE: NOV. 1978

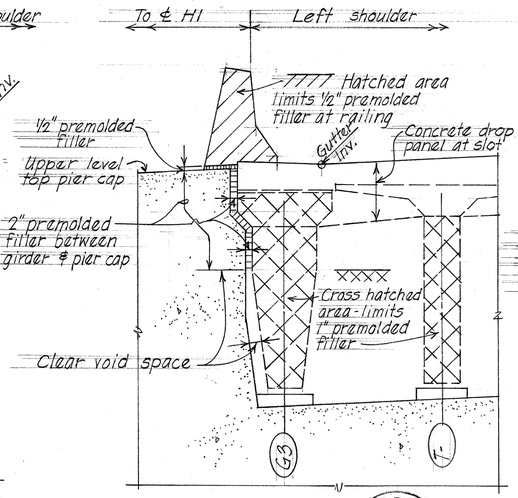
SHEET No. T-17 OF 20 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(15G):16	1979	189	236



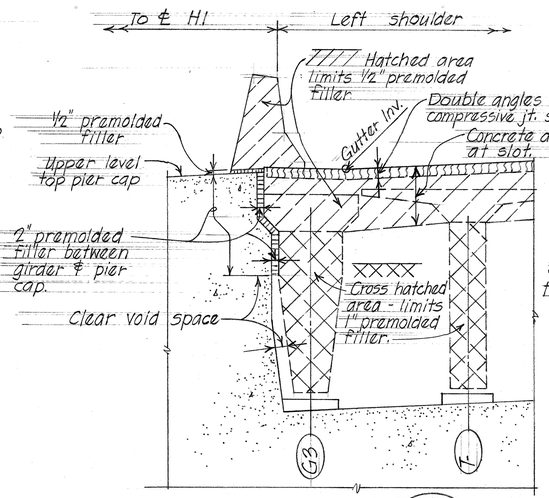
TYPICAL SECTION C T-17 T-18

Scale: ½" = 1'-0"



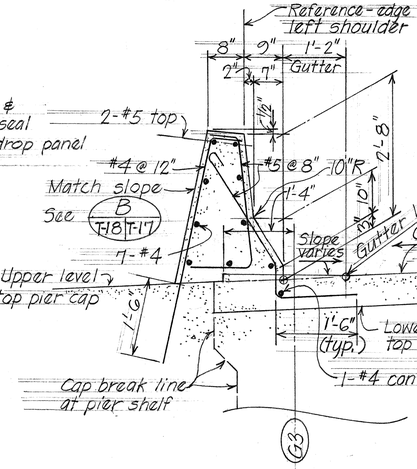
TYPICAL SECTION D T-17 T-18 T-14

Scale: ½" = 1'-0"



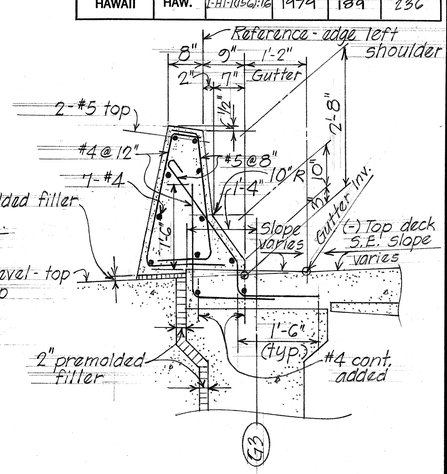
TYPICAL SECTION E T-17 T-18 T-15

Scale: ½" = 1'-0"



TYPICAL SECTION F T-17 T-18

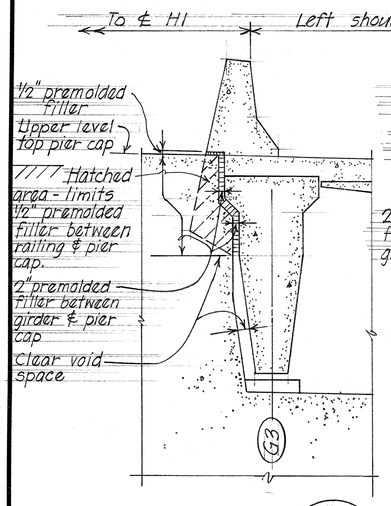
Scale: 3/4" = 1'-0"



TYPICAL SECTION G T-17 T-18

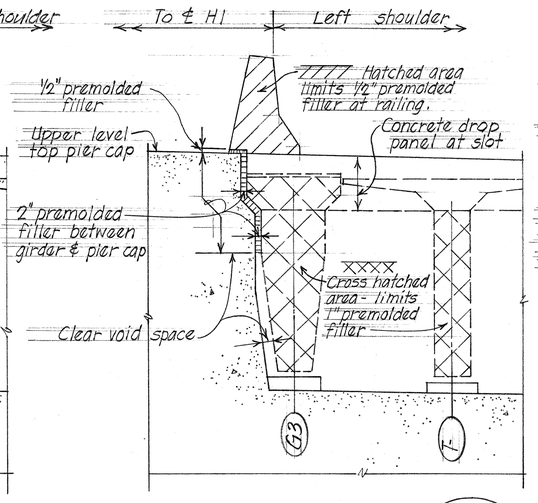
Scale: 3/4" = 1'-0"

BETWEEN ℄ I.B. STA. 115 + 19.87 TO STA. 130 + 45.00 THRUOUT



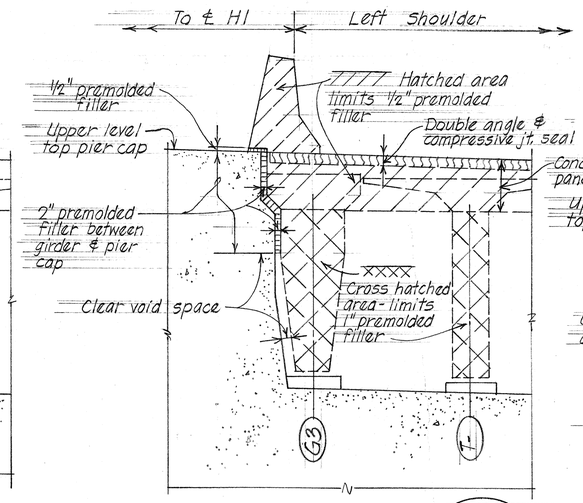
TYPICAL SECTION C T-17 T-18

Scale: ½" = 1'-0"



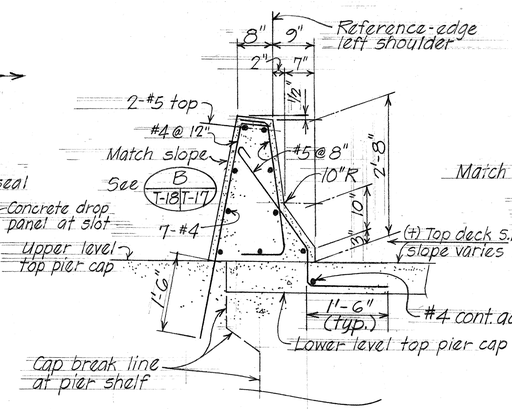
TYPICAL SECTION D T-17 T-18 T-14

Scale: ½" = 1'-0"



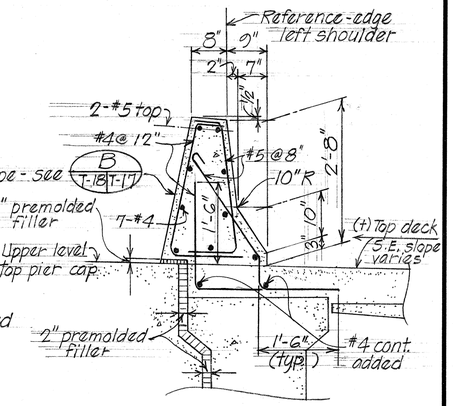
TYPICAL SECTION E T-17 T-18 T-15

Scale: ½" = 1'-0"



TYPICAL SECTION F T-17 T-18

Scale: 3/4" = 1'-0"



TYPICAL SECTION G T-17 T-18

Scale: 3/4" = 1'-0"

BETWEEN ℄ IB STA. 130+45.00 TO STA. 138+28.75 THRUOUT

TYPICAL LEFT RAILING SECTIONS - VARIOUS LOCATIONS

ORIGINAL PLAN	NOTE BOOK	No.
SURVEY PLOTTED BY		
DRAWN BY NY	DATE NOV. '78	
TRACED BY DCO	" "	
DESIGNED BY	" "	
QUANTITIES BY	" "	
CHECKED BY DCO, JE	" "	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS

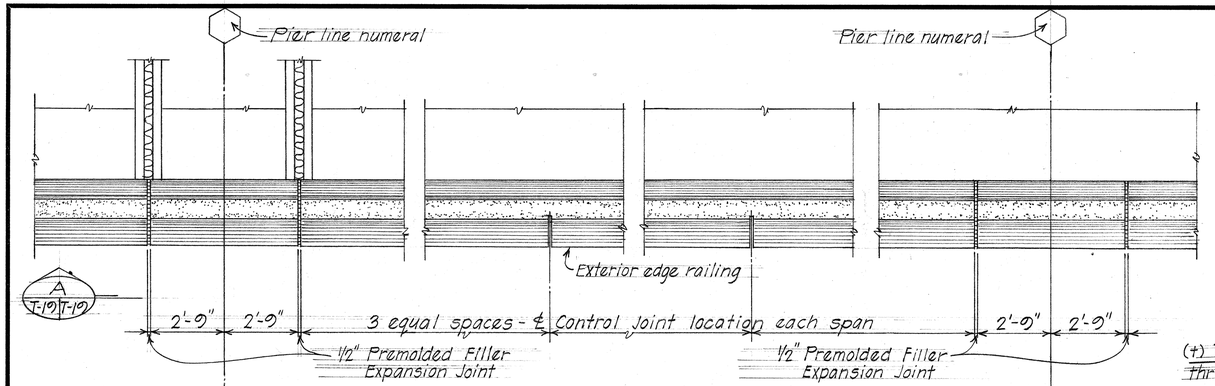
LEFT CONCRETE RAILING AND DECK DETAILS - VARIOUS LOCATIONS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(15G):16

SCALE: AS NOTED DATE: NOV. 1978

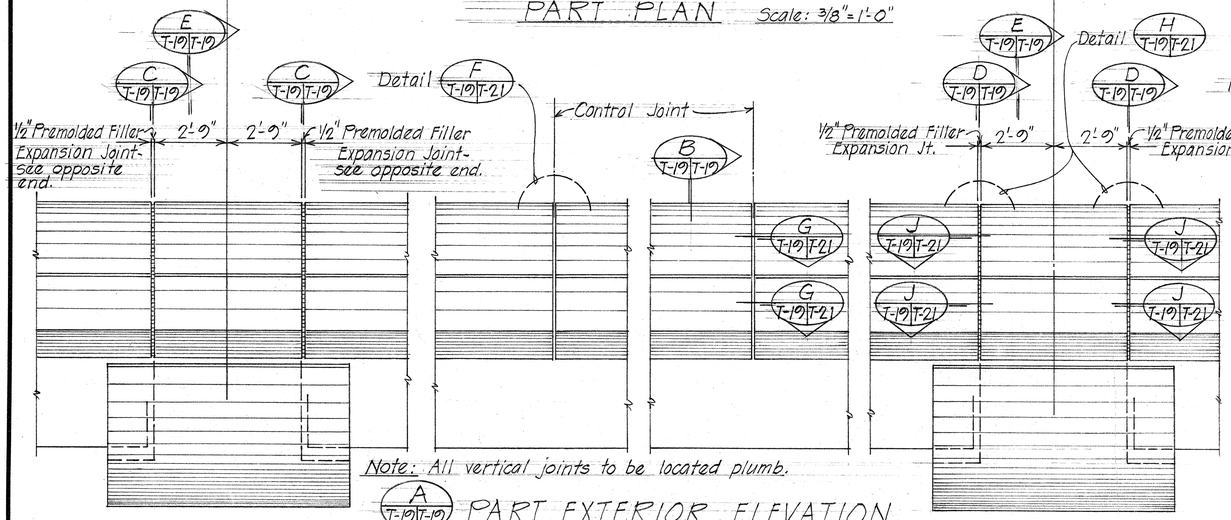
SHEET No. T-18 OF 29 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-HI-1(156):16	1979	190	236



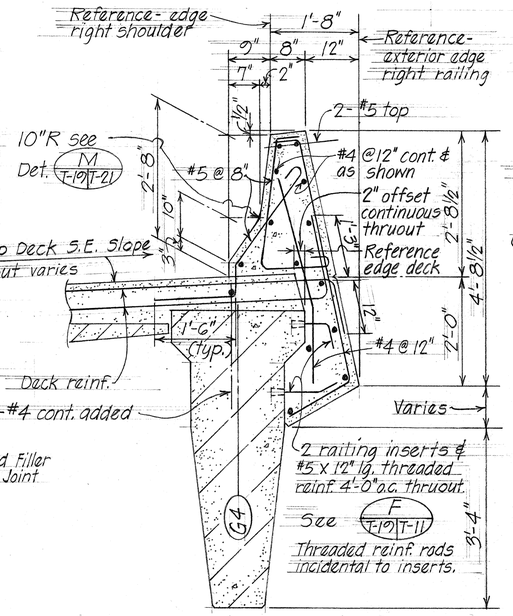
AT DECK EXPANSION JOINTS — INTERMEDIATE CONTROL JOINTS — CONTINUOUS DECK OVER PIER

PART PLAN Scale: 3/8"=1'-0"

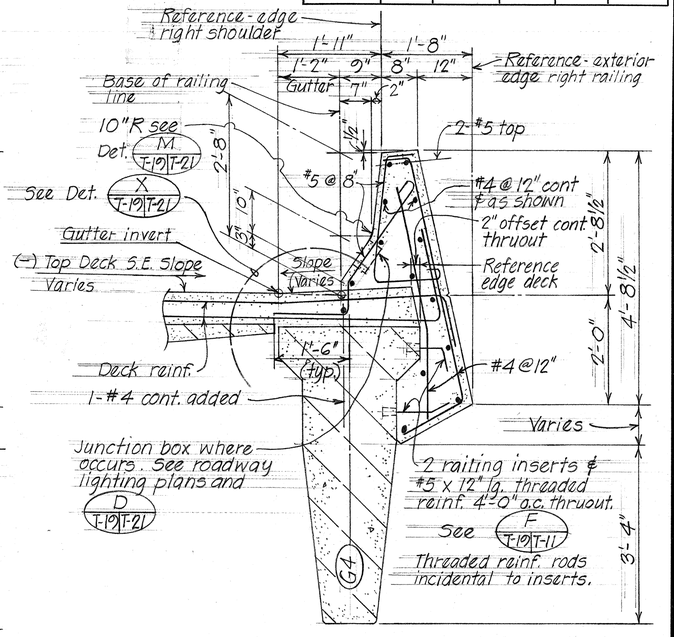


Note: All vertical joints to be located plumb.

A T-19 T-19 PART EXTERIOR ELEVATION



BETWEEN - { R-NE ℄ 23+40.25± TO ℄ 33+77.48 ; ℄ IB STA. 127+17.18 TO STA. 130+45.00 }

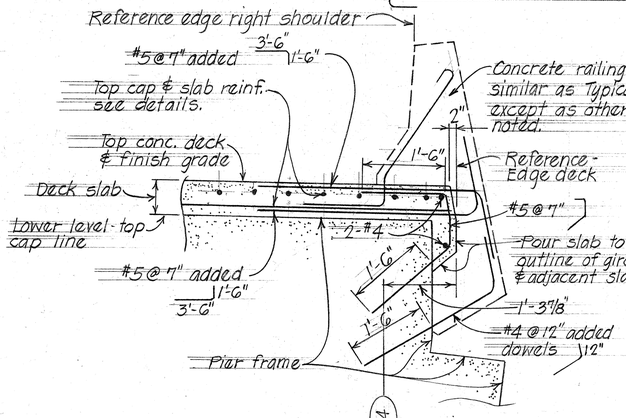


BETWEEN - { ℄ IB STA. 130+45.00 TO STA. 138+28.75 }

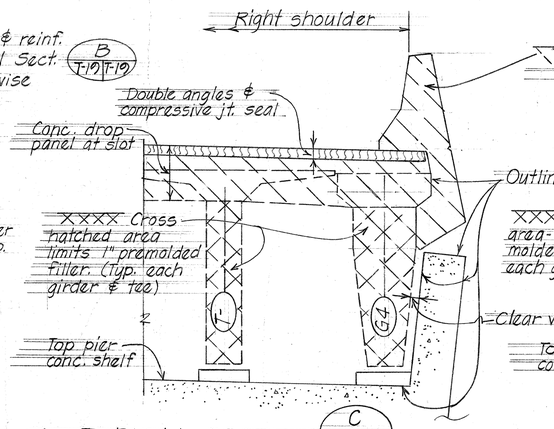
TYPICAL SECTION B T-19 T-19 Scale: 3/4"=1'-0"

T-25

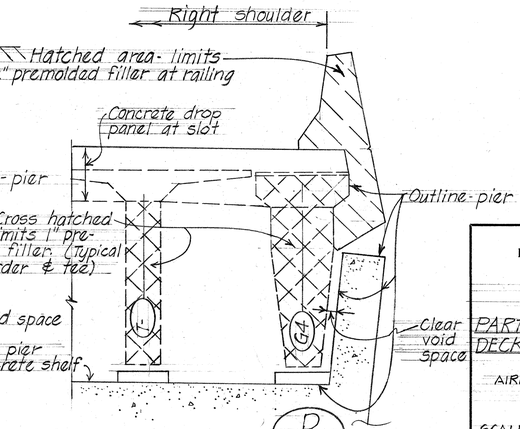
TYPICAL PART RIGHT RAILING DETAILS BETWEEN - { R-NE ℄ 23+40.25± TO ℄ 33+77.48 ; ℄ IB STA. 127+17.18 TO STA. 138+28.75 } - THRUOUT



TYPICAL SECTION E T-19 T-19 Scale: 3/4"=1'-0"



TYPICAL SECTION C T-19 T-19 Scale: 1½"=1'-0"



TYPICAL SECTION D T-19 T-19 Scale: 1½"=1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS

PART RIGHT CONCRETE RAILING AND DECK DETAILS - VARIOUS LOCATIONS

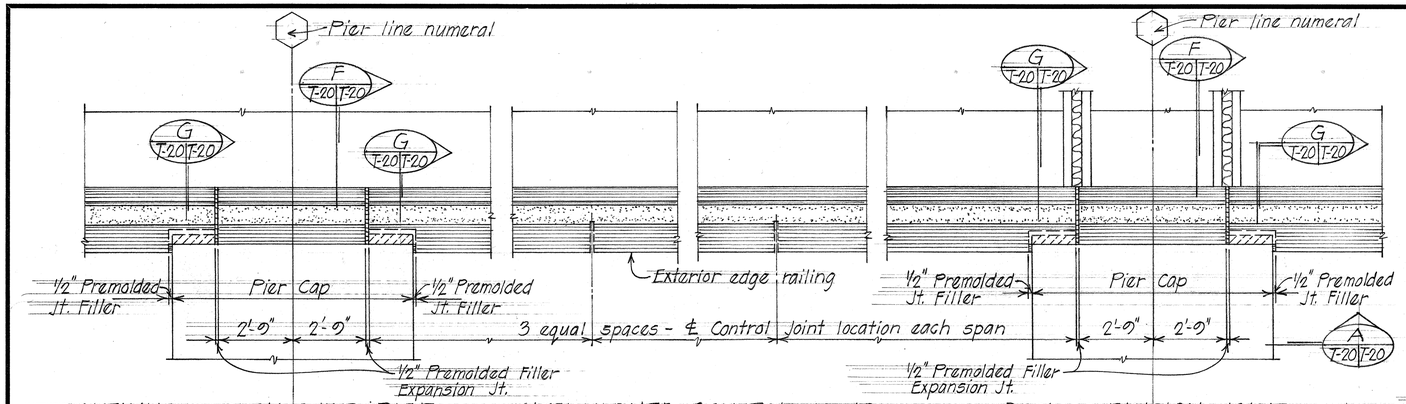
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: AS NOTED DATE: NOV. 1978

SHEET No. T-19 OF 29 SHEETS

ORIGINAL PLAN		DATE
	SURVEY PLOTTED BY	NY
	DRAWN BY	"
	TRACED BY	DCO
NOTE BOOK	DESIGNED BY	"
	QUANTITIES BY	"
No.	CHECKED BY	DCO, EG

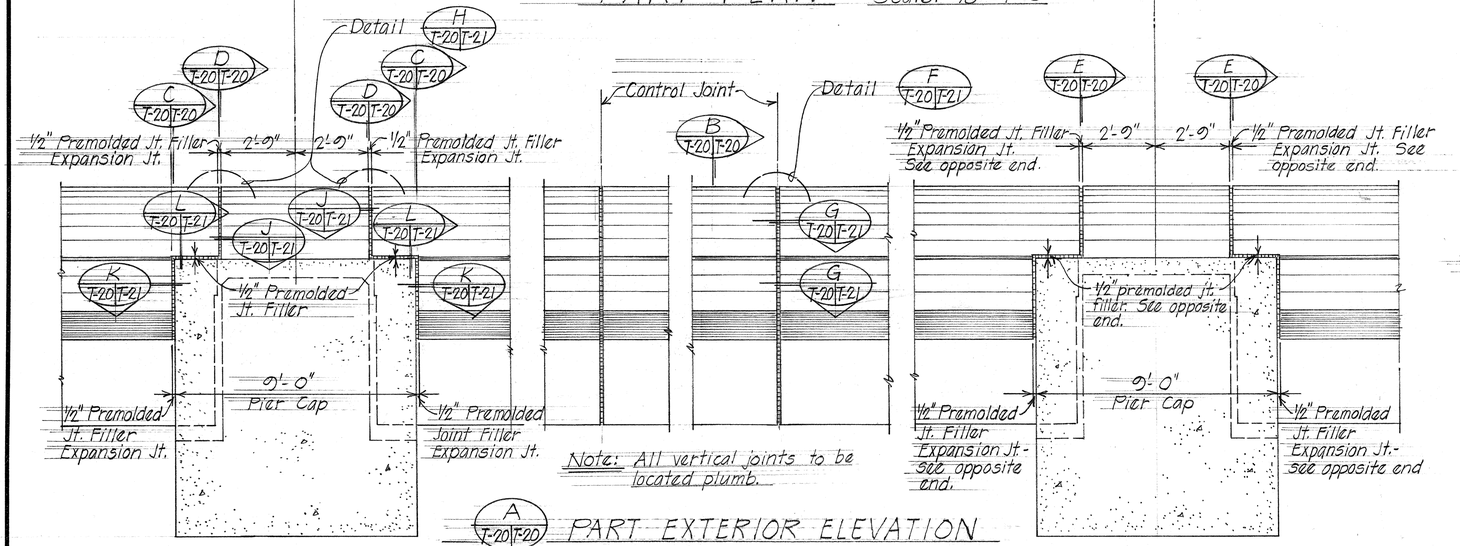
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(56):16	1979	191	236



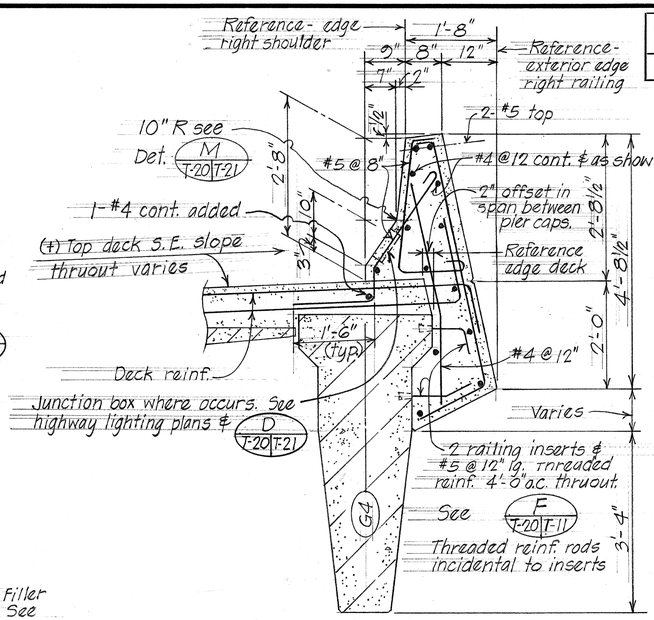
CONTINUOUS DECK OVER PIER — INTERMEDIATE CONTROL JOINT — DECK EXPANSION JOINT

PART PLAN

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

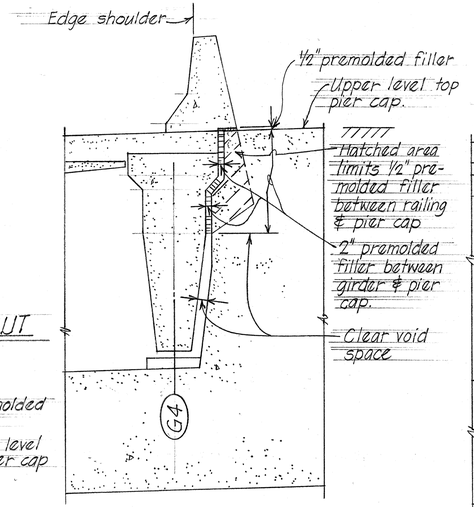


A T-20 T-20 PART EXTERIOR ELEVATION



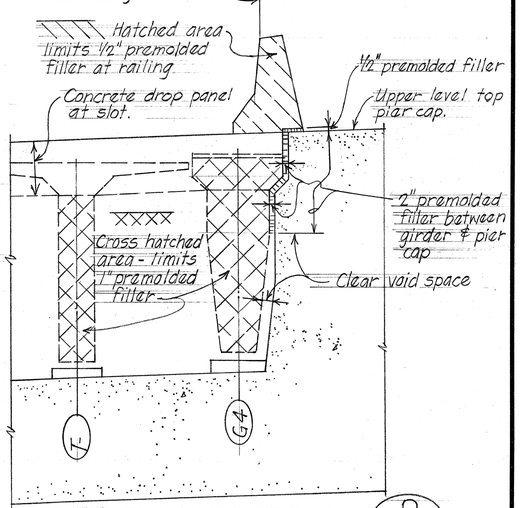
TYPICAL SECTION B T-20 T-20

Scale: 3/4" = 1'-0"



TYPICAL SECTION C T-20 T-20

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

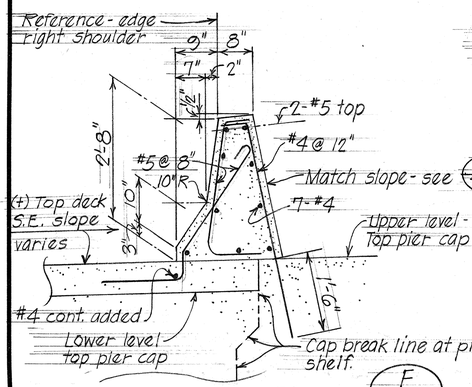


TYPICAL SECTION D T-20 T-20

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

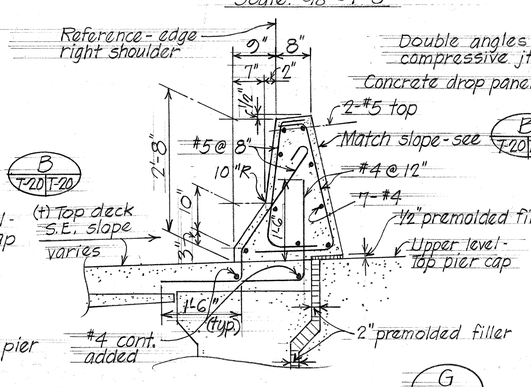
TYPICAL PART RIGHT RAILING DETAILS BETWEEN RAMP R-NE ℄ 21 + 56.30 TO ℄ 23 + 40.25± THRUOUT

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



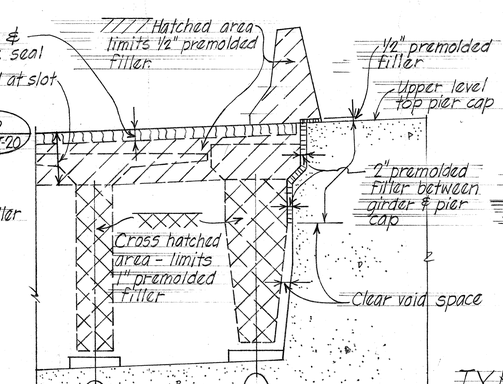
TYPICAL SECTION F T-20 T-20

Scale: 3/4" = 1'-0"



TYPICAL SECTION G T-20 T-20

Scale: 3/4" = 1'-0"



TYPICAL SECTION E T-20 T-20

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

ORIGINAL PLAN	SURVEY PLOTTED BY	NY	DATE Nov. '78
	DRAWN BY	DCO	"
NOTE BOOK	TRACED BY		"
	DESIGNED BY	DCO, FC	"
No.	QUANTITIES BY		"
	CHECKED BY		"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS

PART RIGHT CONCRETE RAILING AND DECK DETAILS

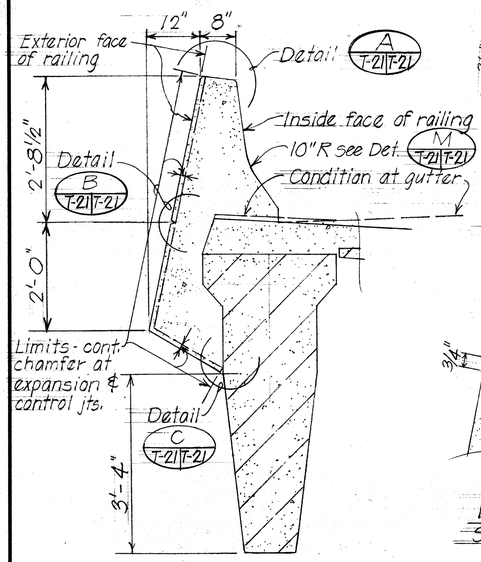
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: AS NOTED — DATE: NOV. 1978

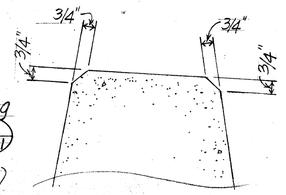
SHEET No. T-20 OF 29 SHEETS

K&E ® TRACING PAPER

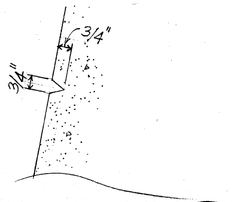
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-HI-1(156)16	1979	192	236



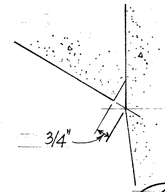
TYPICAL RAILING SECTION
Scale: 3/4" = 1'-0"



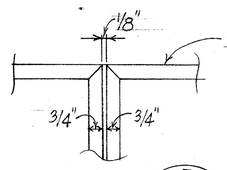
DETAIL A T-21 T-21
Scale: 3" = 1'-0"



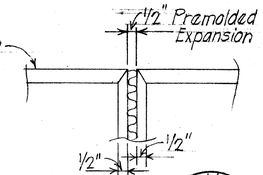
DETAIL B T-21 T-21
Scale: 3" = 1'-0"



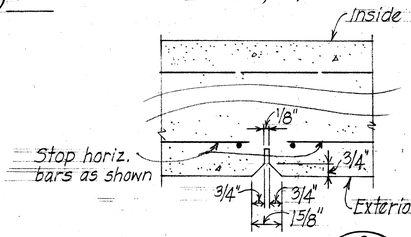
DETAIL C T-21 T-21
Scale: 3" = 1'-0"



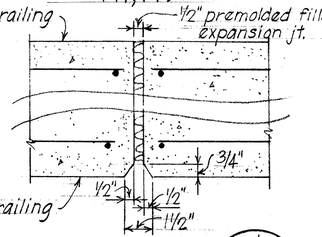
DETAIL F T-20 T-21
T-17, T-19



DETAIL H T-20 T-21
T-17, T-19

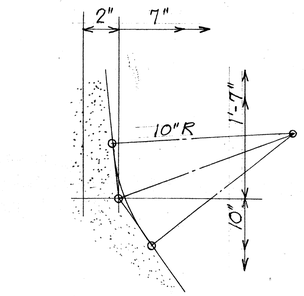


SECTION G T-20 T-21
T-17, T-19

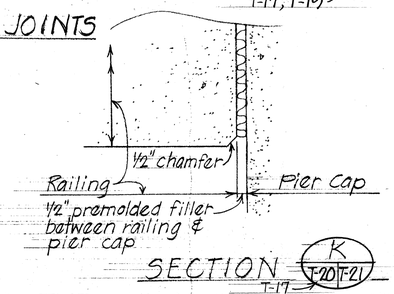


SECTION J T-20 T-21
T-17, T-19

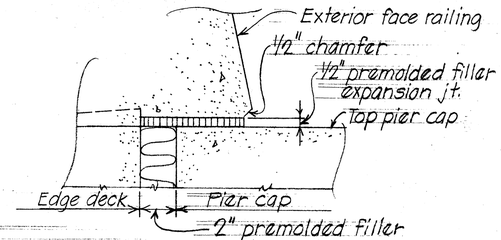
TYPICAL AT CONTROL JOINTS
3" = 1'-0"



TYPICAL DETAIL M T-21 T-21
Scale: 3" = 1'-0"
T-17
T-19
T-20



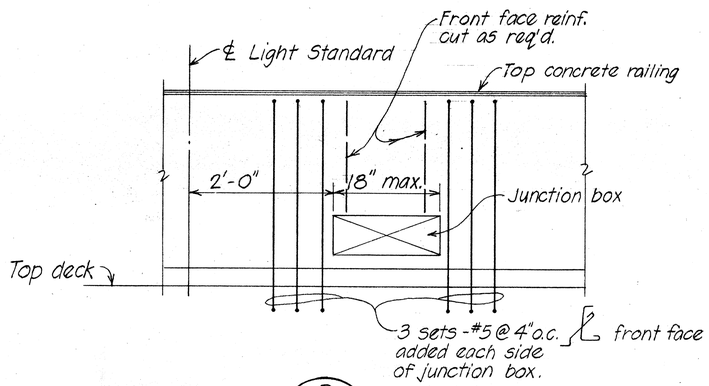
SECTION K T-20 T-21
T-17



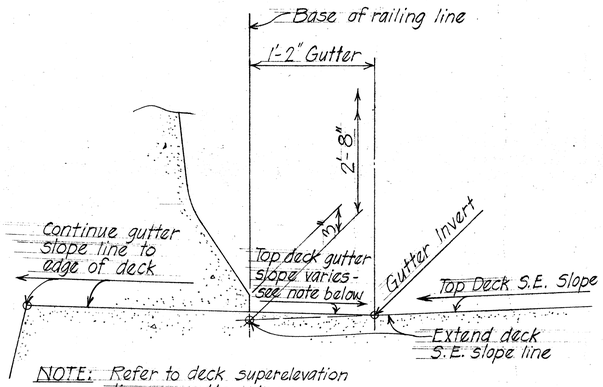
SECTION L T-20 T-21
Scale: 3" = 1'-0"
T-17

TYPICAL AT EXPANSION JOINTS Scale: 3" = 1'-0"

TYPICAL CONCRETE RAILING FASCIA DETAILS & FINISH



ELEVATION D T-17 T-21 SHOWING SPECIAL REINFORCEMENT AT JUNCTION BOX
T-19, T-20



NOTE: Refer to deck superelevation diagram - gutter slope

DETAIL X T-19 T-21
48, 61, 62, T-17

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

ORIGINAL PLAN	SURVEY PLOTTED BY	N.Y.	DATE	NOV. '78	
	DRAWN BY	N.Y.			
	TRACED BY	DC.O			
NOTE BOOK	DESIGNED BY				
	QUANTITIES BY	DCO, FEG			
No.	CHECKED BY				

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

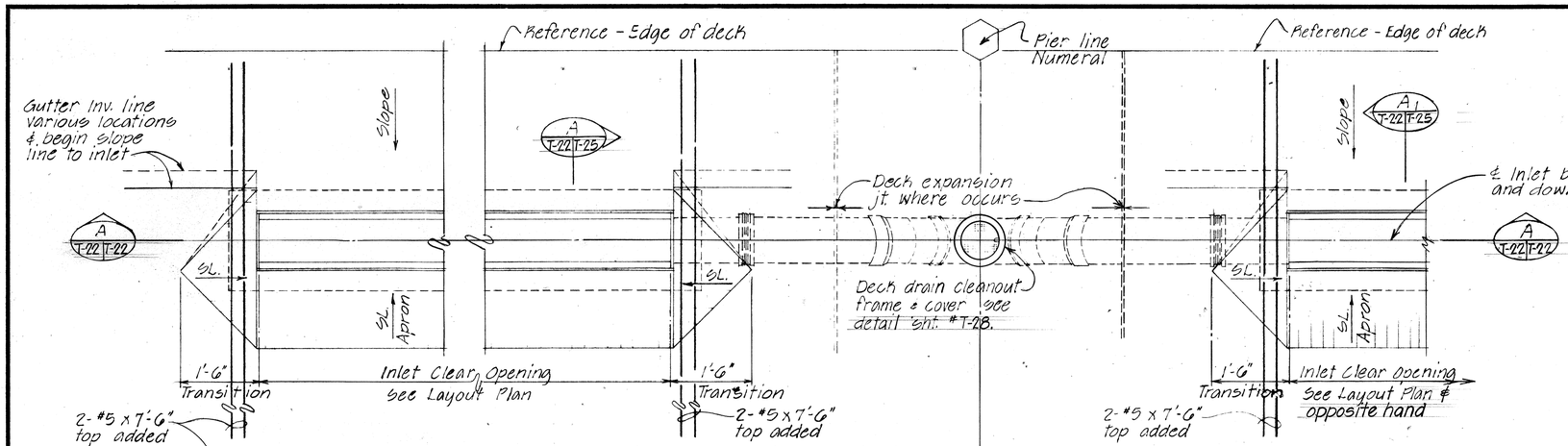
TYPICAL DETAILS
CONCRETE RAILING FASCIA DETAILS & FINISH
MISCELLANEOUS RAILING DETAILS
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156)16

SCALE : AS NOTED DATE : NOV. 1978

SHEET No. T-21 OF 20 SHEETS

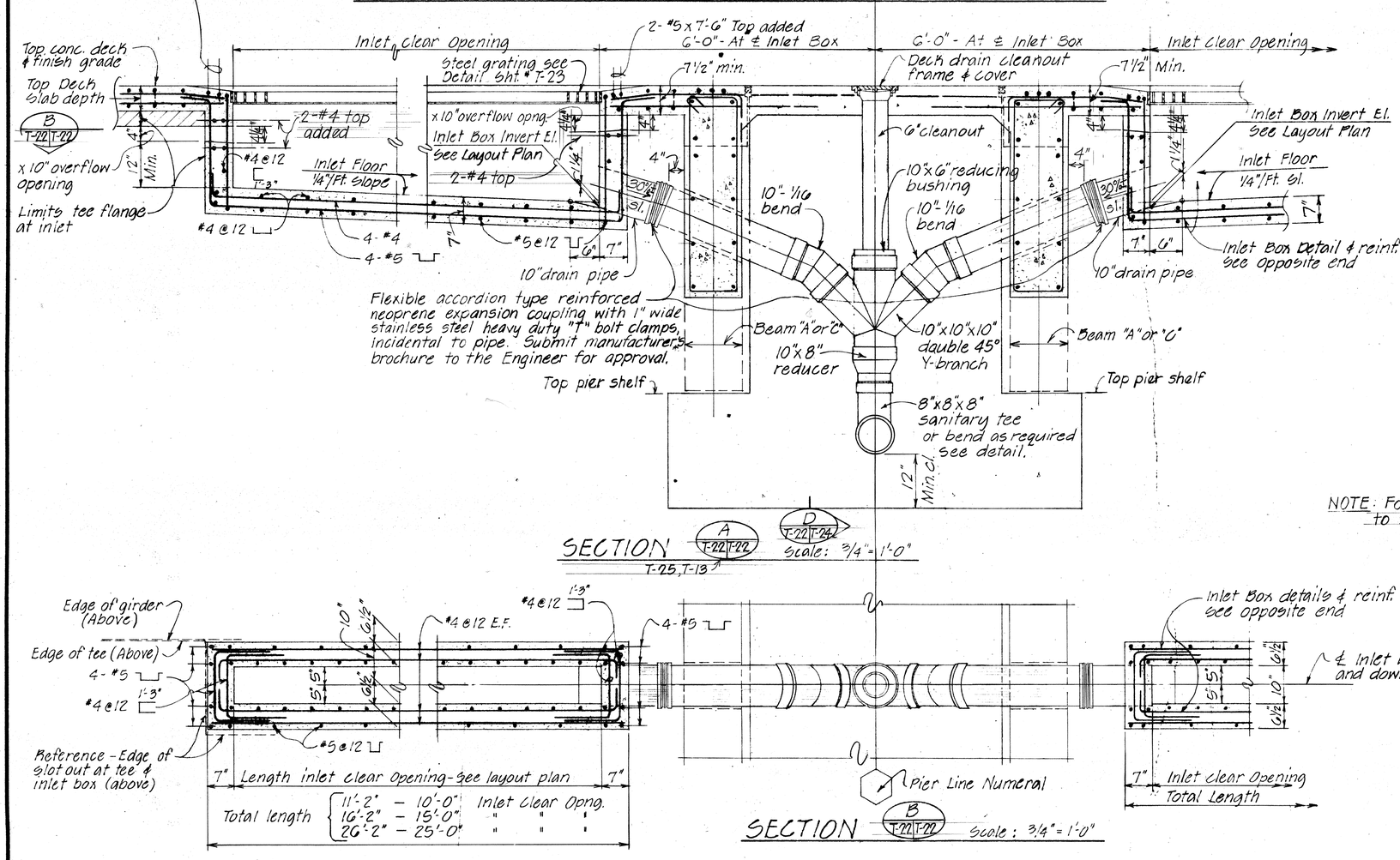
K&E CRYSTALENE® TRACING PAPER

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	~~I-HI-1(156)16~~	1979	193	236



PLAN - DOUBLE INLET BOX & DRAIN PIPE - TYPE I_2 Scale: 3/4"=1'-0"

PART PLAN - SINGLE INLET BOX & DRAIN PIPE - TYPE I_2
Scale: 3/4"=1'-0"



SECTION A T-22 T-22 / D T-22 T-24 Scale: 3/4"=1'-0"
T-25, T-13

NOTE: For additional notes, refer to Sht. # T-25

SECTION C T-22 T-22 Scale: 3/4"=1'-0"

SECTION B T-22 T-22 Scale: 3/4"=1'-0"

NOTE: For additional notes, refer to Sht. # T-25

ORIGINAL PLAN	NOTE BOOK	No.
SURVEY PLOTTED BY:	DESIGNED BY:	DATE: NOV. '78
DRAWN BY:	QUANTITIES BY: DCO, FG	
TRACED BY: RK	CHECKED BY:	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

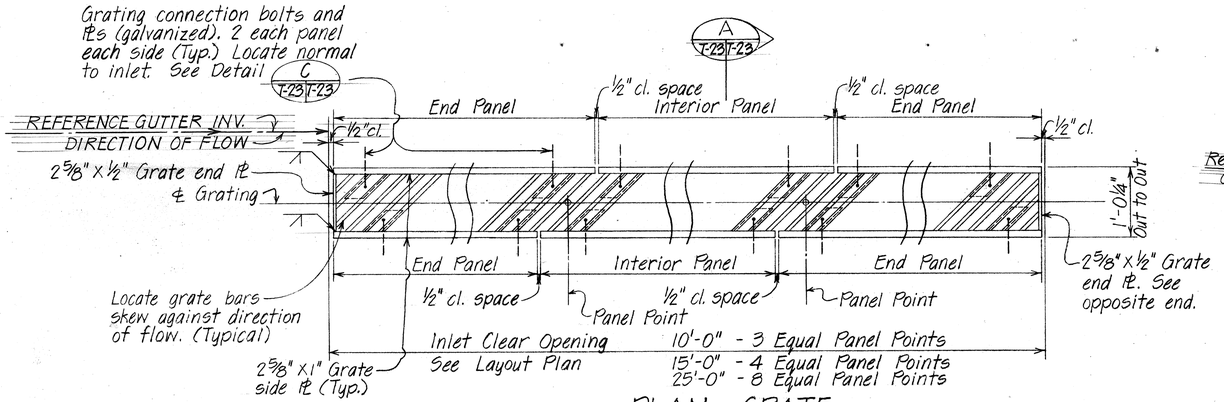
TYPICAL DETAILS
DECK DRAIN INLET TYPE I_2
SECTIONS & DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156)16

SCALE: AS NOTED DATE: NOV. 1978

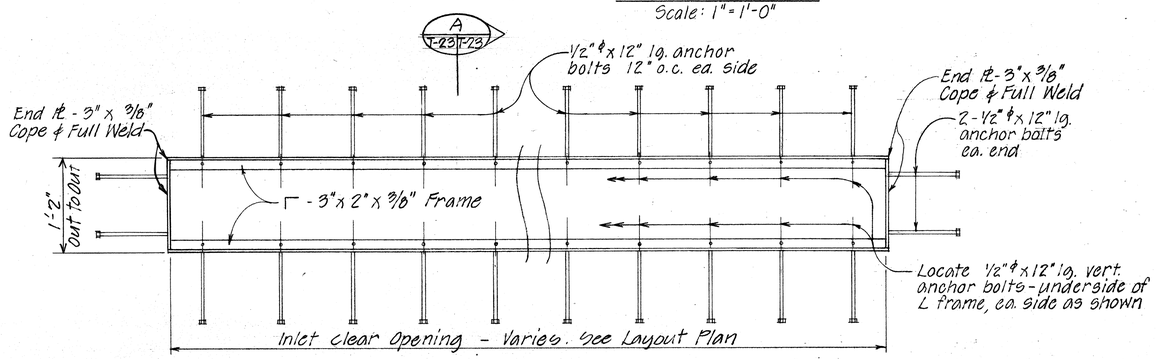
SHEET NO. T-22 OF 29 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	FHEI(156):16	1979	194	236



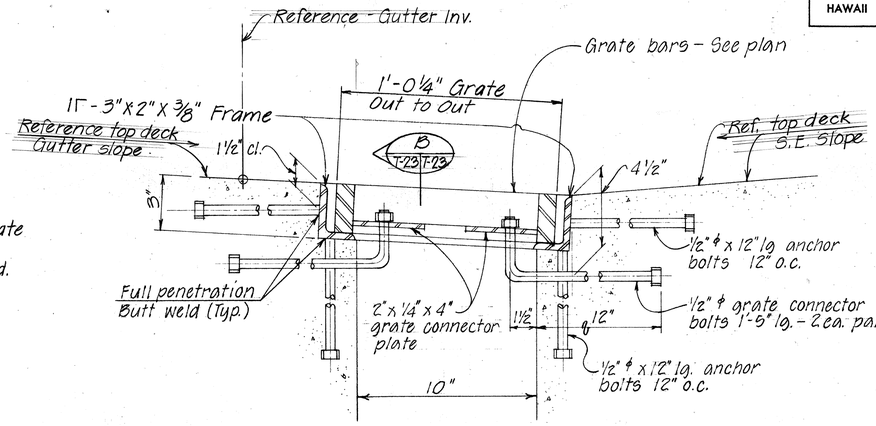
PLAN - GRATE

Scale: 1" = 1'-0"

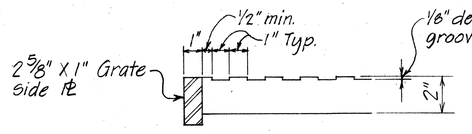


PLAN - GRATE FRAME

Scale: 1" = 1'-0"

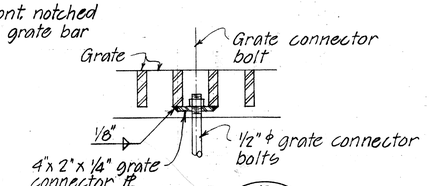


TYPICAL SECTION (GRATE & FRAME ASSEMBLAGE) A T-23 T-23 Scale: 3" = 1'-0"



GRATE BAR DETAIL

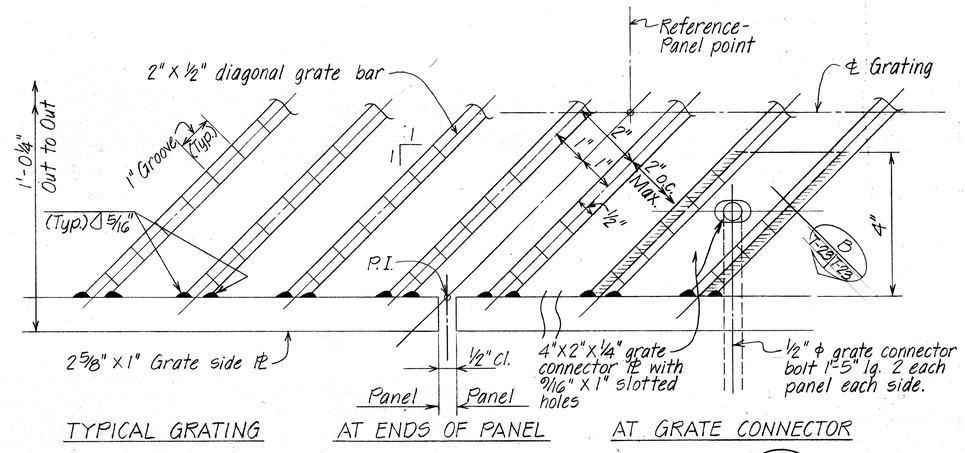
Scale: 3" = 1'-0"



SECTION B T-23 T-23 Scale: 3" = 1'-0"

NOTE:

1. Grates, frames, bolts, etc. shall be hot dipped galvanized after fabrication. See special provisions.



TYPICAL GRATE CONNECTION DETAIL C T-23 T-23

Scale: Half Size

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE Nov. '78
	DRAWN BY	" "
	TRACED BY R.K.	" "
NOTE BOOK	DESIGNED BY	" "
	QUANTITIES BY DGO, FC	" "
No.	CHECKED BY	" "

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

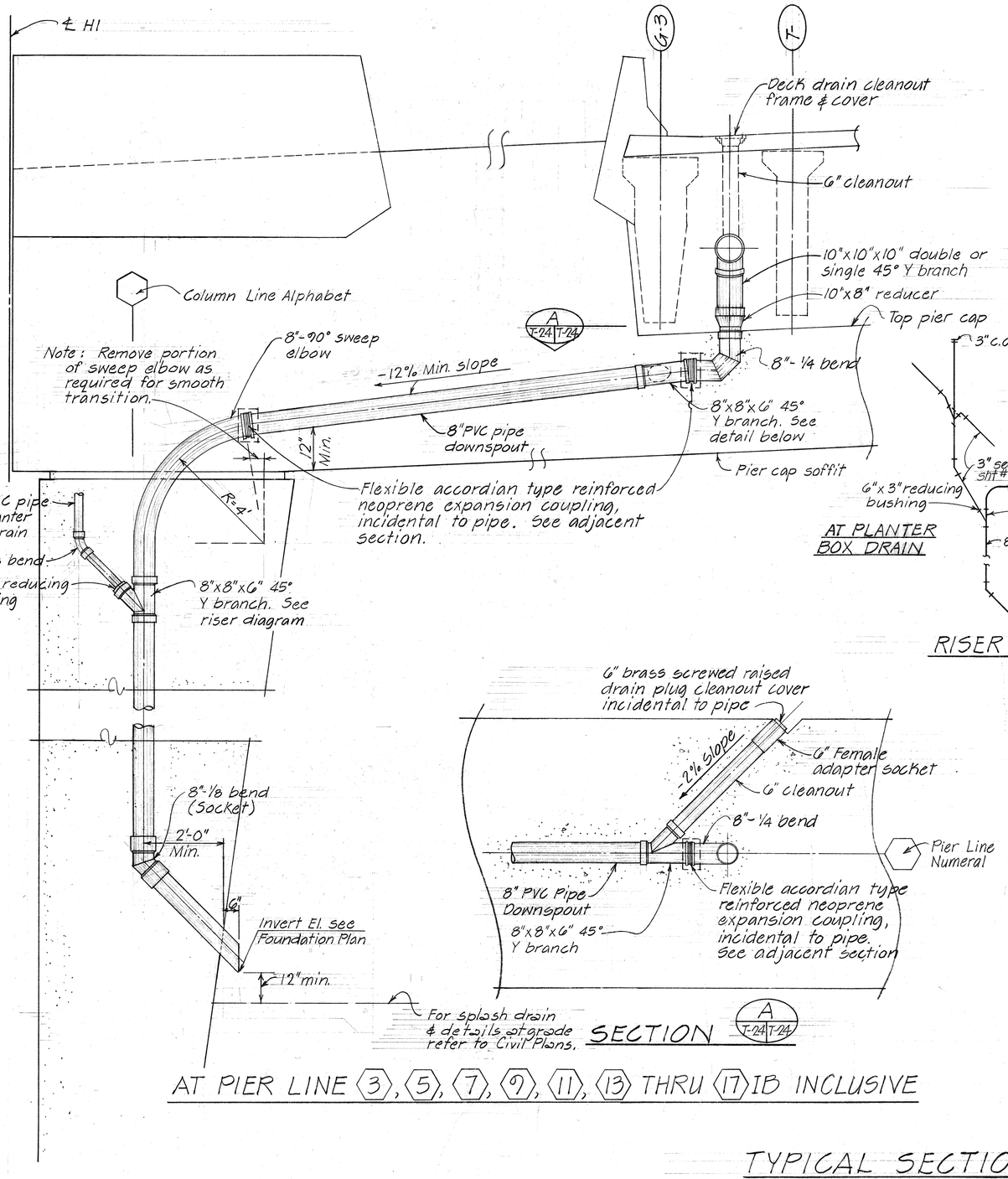
TYPICAL DETAILS
DECK DRAIN INLET TYPE I_2
FRAME & GRATING DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

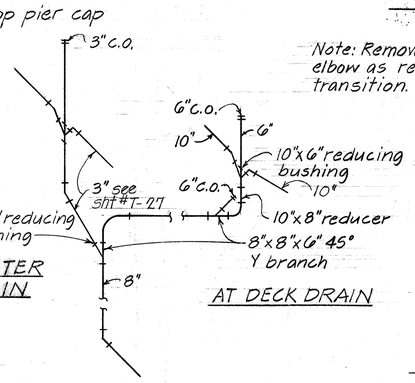
SCALE: AS NOTED DATE: NOV. 1978

SHEET No. T-23 OF 29 SHEETS

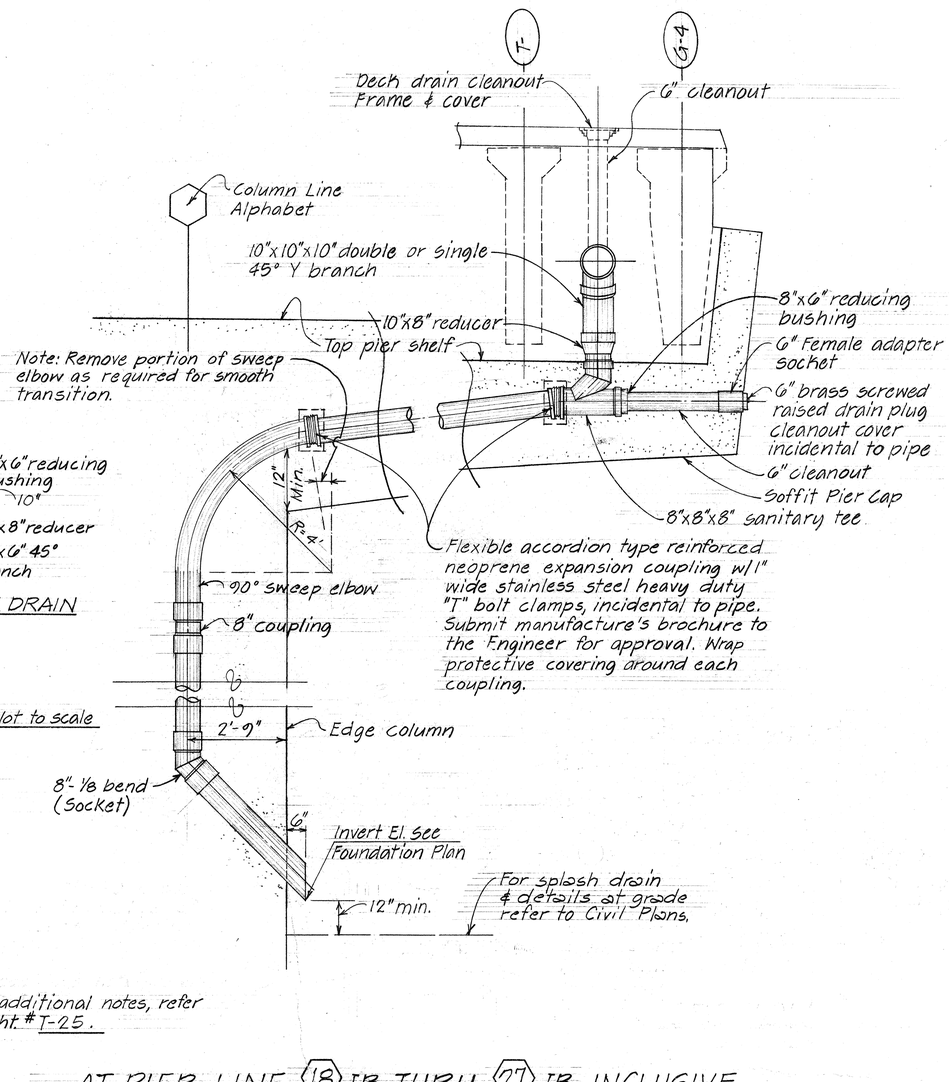
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	195	236



AT PLANTER BOX DRAIN



AT DECK DRAIN



RISER DIAGRAM Not to scale

SECTION A T-24 T-24

AT PIER LINE ⟨3⟩, ⟨5⟩, ⟨7⟩, ⟨9⟩, ⟨11⟩, ⟨13⟩ THRU ⟨17⟩ IB INCLUSIVE

NOTE: For additional notes, refer to sht # T-25.

AT PIER LINE ⟨18⟩ IB THRU ⟨27⟩ IB INCLUSIVE

TYPICAL SECTION D T-27 T-24 DOWNSPOUT Scale: ½"=1'-0"

T-25

ORIGINAL PLAN	SURVEY PLOTTED BY	LM	DATE	Nov '78
	DRAWN BY		"	"
	TRACED BY		"	"
NOTE BOOK	DESIGNED BY	DLO	"	"
	QUANTITIES BY		"	"
No.	CHECKED BY	DLO, EC	"	"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

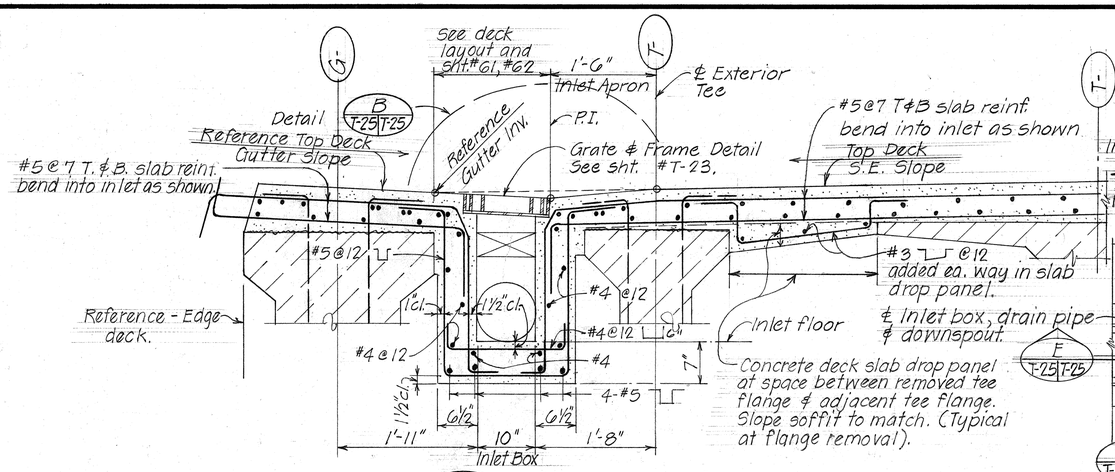
TYPICAL DETAILS
DECK DRAIN INLET TYPE I2
SECTIONS & DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: AS NOTED DATE: NOV. 1978

SHEET No. T-24 OF 29 SHEETS

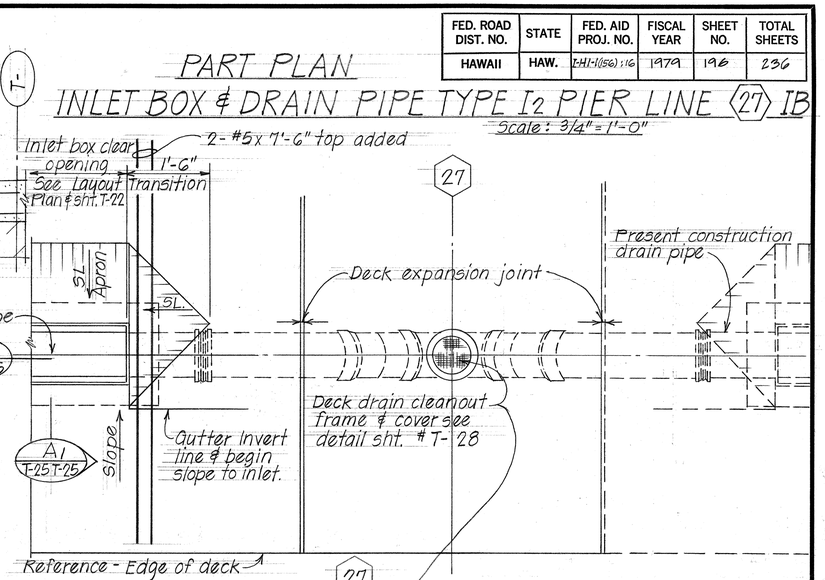
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	196	236

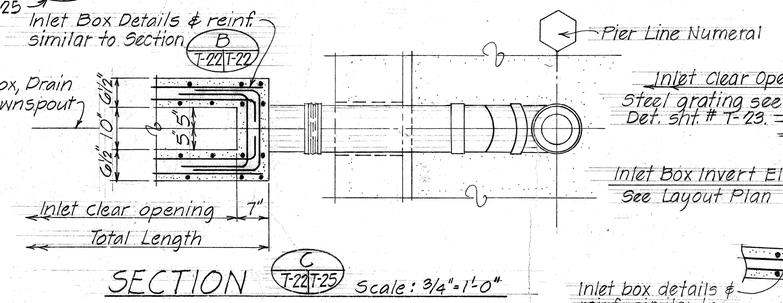


SECTION A T-22 T-25 - AS SHOWN

Scale: 1" = 1'-0"

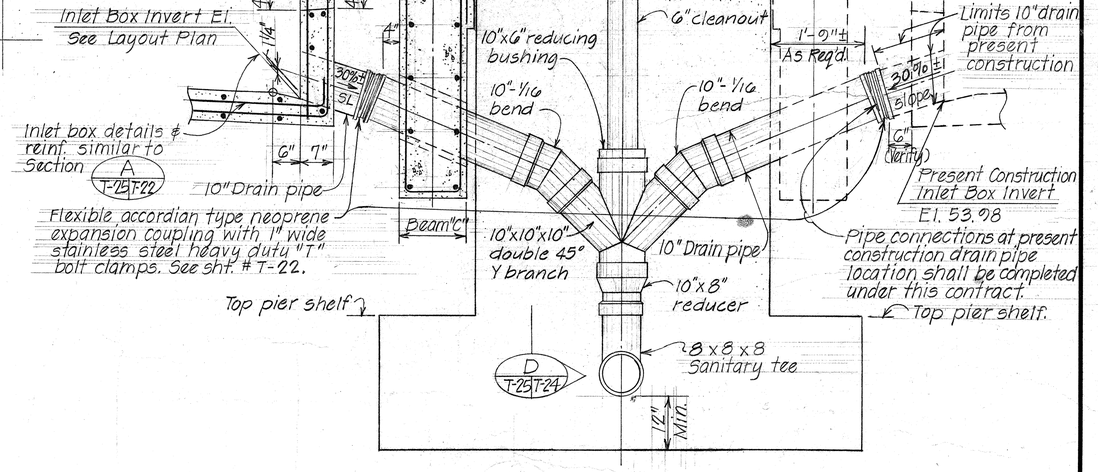
SECTION A1 T-22 T-25 - SIMILAR EXCEPT OPPOSITE HAND

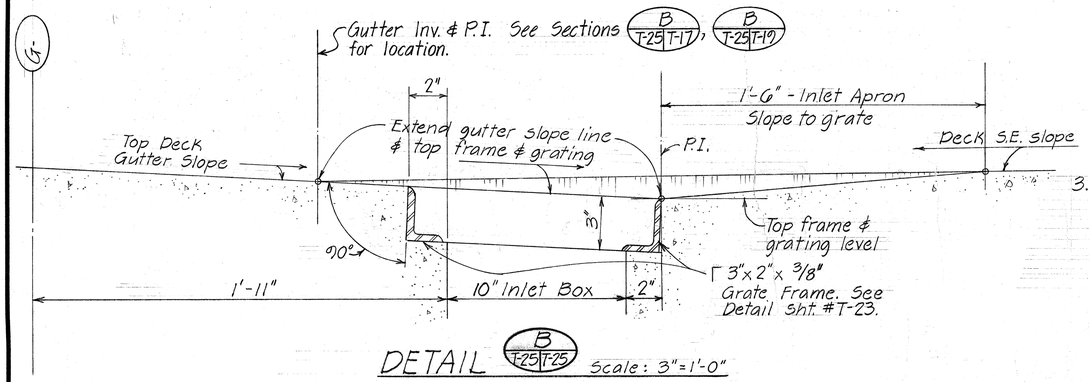




SECTION E T-25 T-25

Scale: 3/4" = 1'-0"





DETAIL B T-25 T-25

Scale: 3" = 1'-0"

NOTES

1. Drain pipe fittings & downspout to be PVC pipe. All fittings shall be fabricated from Schedule 40 pipes, except at required screwed fittings to be furnished as per manufacturer's recommendations. These may be non pressure fittings suitable for intermittent service of 20 psi. Except as otherwise noted for threaded ends, socket ends of fittings shall be fabricated for cement jointed.
2. Refer to specification & special provisions for product specifications.
3. All PVC drain pipes, downspout fittings, downspout expansion couplings & clamps shall be incidental to concrete and will not be paid for separately.

ORIGINAL PLAN		DATE Nov. '78
	SURVEY PLOTTED BY	
	DRAWN BY LW	" "
	TRACED BY	" "
	DESIGNED BY DCO	" "
NOTE BOOK	QUANTITIES BY	" "
No.	CHECKED BY DCO, EC	" "

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

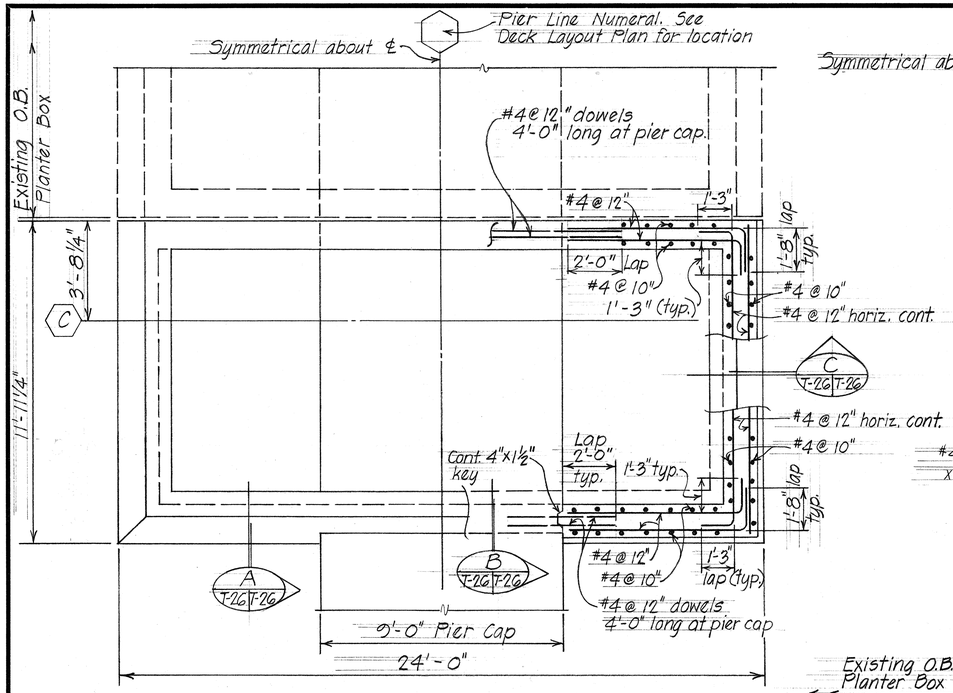
TYPICAL DETAILS
DECK DRAIN INLET TYPE I2
SECTIONS & DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: AS NOTED DATE: Nov. 1978

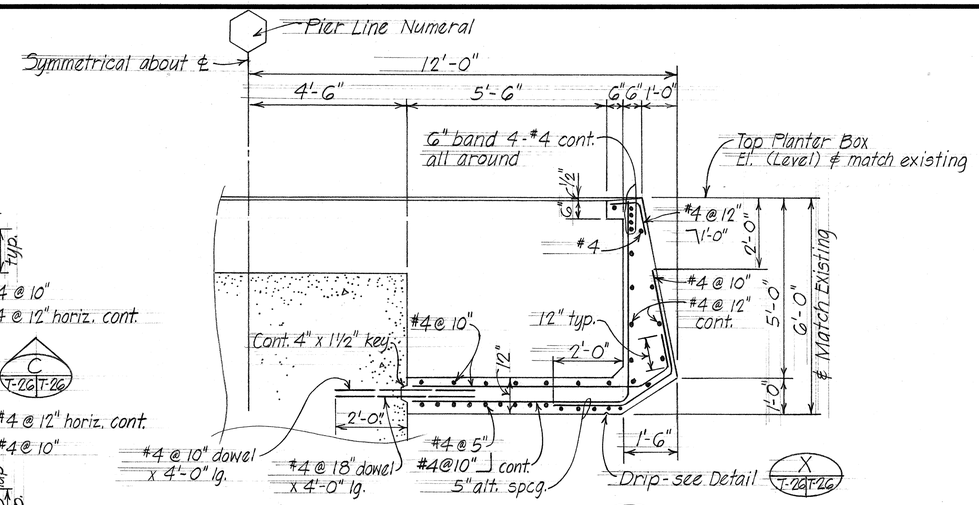
SHEET NO. T-25 OF 29 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	197	236



PLAN - TYPICAL PLANTER BOX

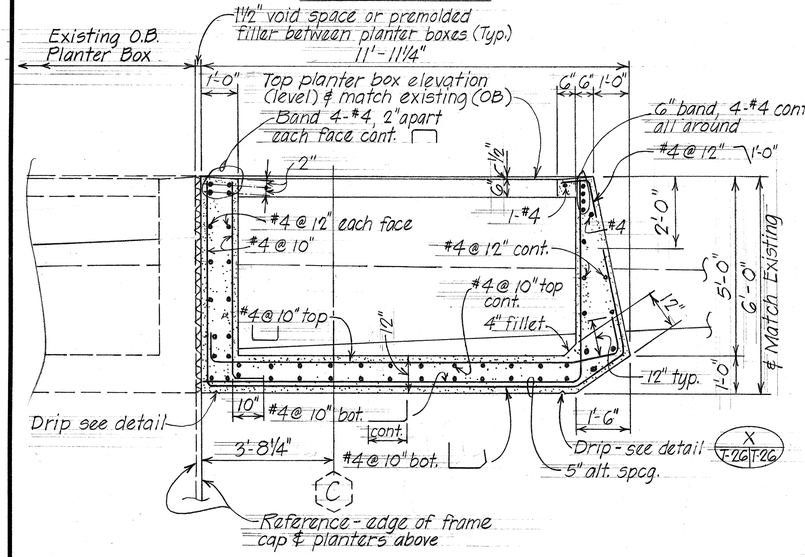
Scale: 3/8" = 1'-0"



TYPICAL SECTION

C T-26 T-26

Scale: ½" = 1'-0"

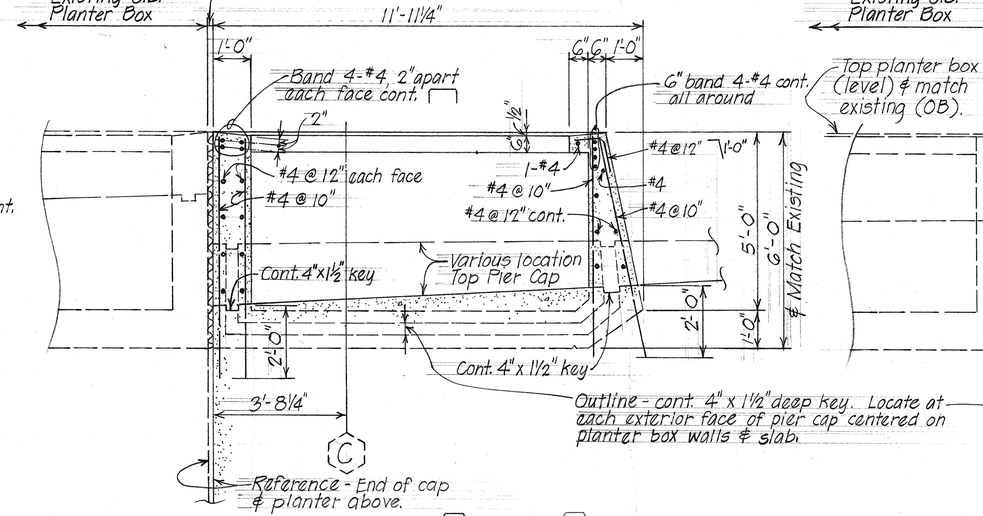


AT CANTILEVERED PLANTER

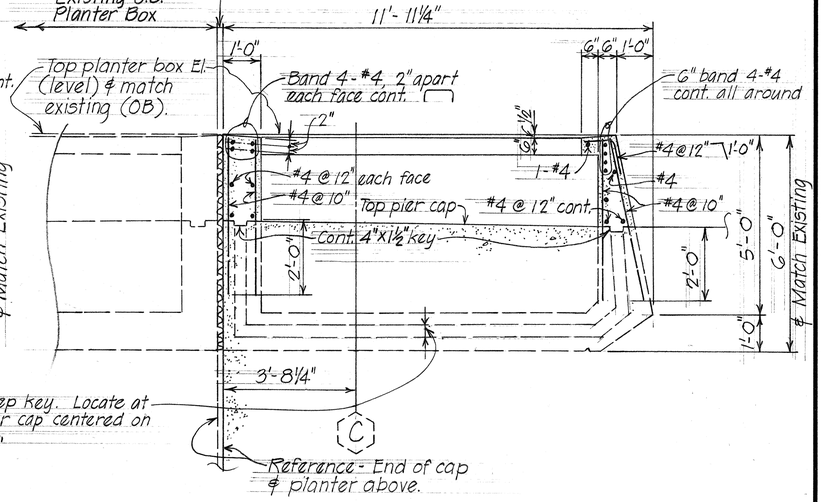
TYPICAL SECTION

A T-26 T-26

Scale: ½" = 1'-0"



OVER PIER CAP LINES (2) THRU (18) INCLUSIVE



OVER PIER CAP LINES (19) THRU (27) INCLUSIVE

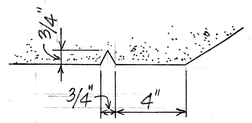
TYPICAL SECTION

B T-26 T-26

Scale: ½" = 1'-0"

NOTE:

All PVC ℄ drain pipes ℄ fittings incidental to concrete ℄ will not be paid for separately. For planter box drainage ℄ sprinkler details refer to corresponding shts # T-27, # T-28.



DRIP DETAIL

X T-26 T-26

Scale: 3" = 1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	NY	DATE	Nov. '78
	DRAWN BY	"	"	"
NOTE BOOK	TRACED BY	"	"	"
	DESIGNED BY	DCO	QUANTITIES BY	GT
No.	CHECKED BY	DCO		EZ

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

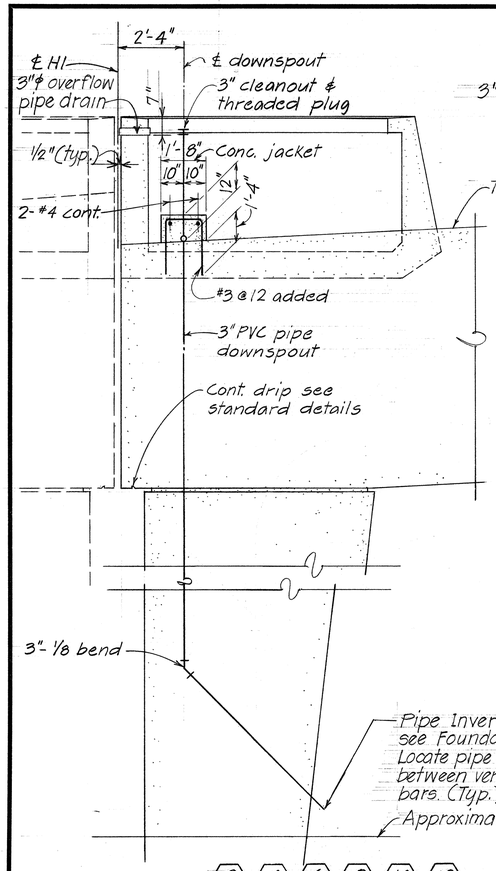
TYPICAL DETAILS
PLANTER BOX DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: AS NOTED DATE: NOV. 1978

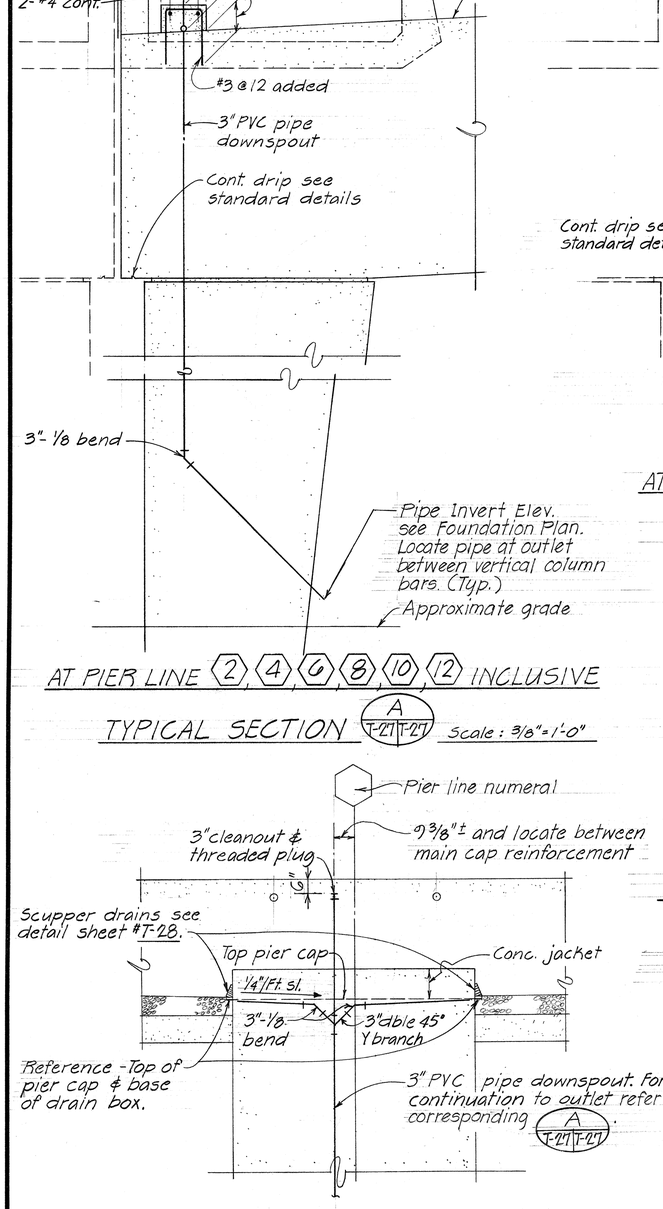
SHEET No. T-26 OF 29 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	198	236

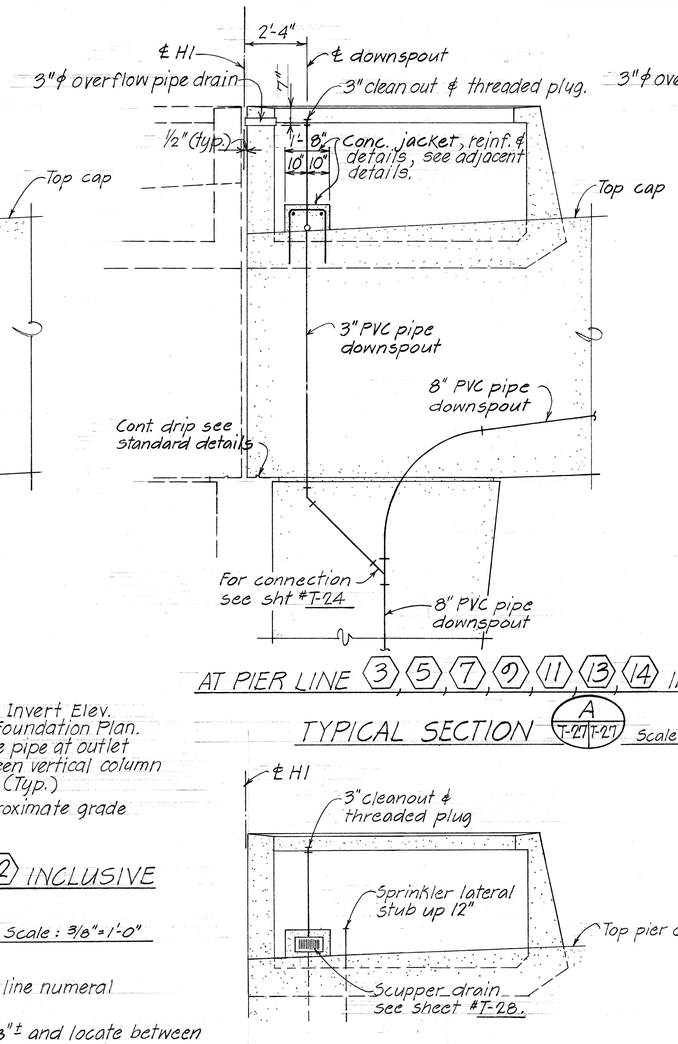


AT PIER LINE ⟨2⟩, ⟨4⟩, ⟨6⟩, ⟨8⟩, ⟨10⟩, ⟨12⟩ INCLUSIVE

TYPICAL SECTION (A / T-27 | T-27) Scale: 3/8"=1'-0"



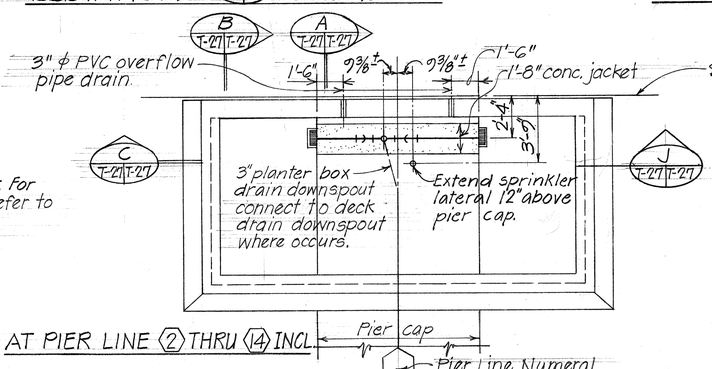
SECTION (C / T-27 | T-27) Scale: 3/8"=1'-0"



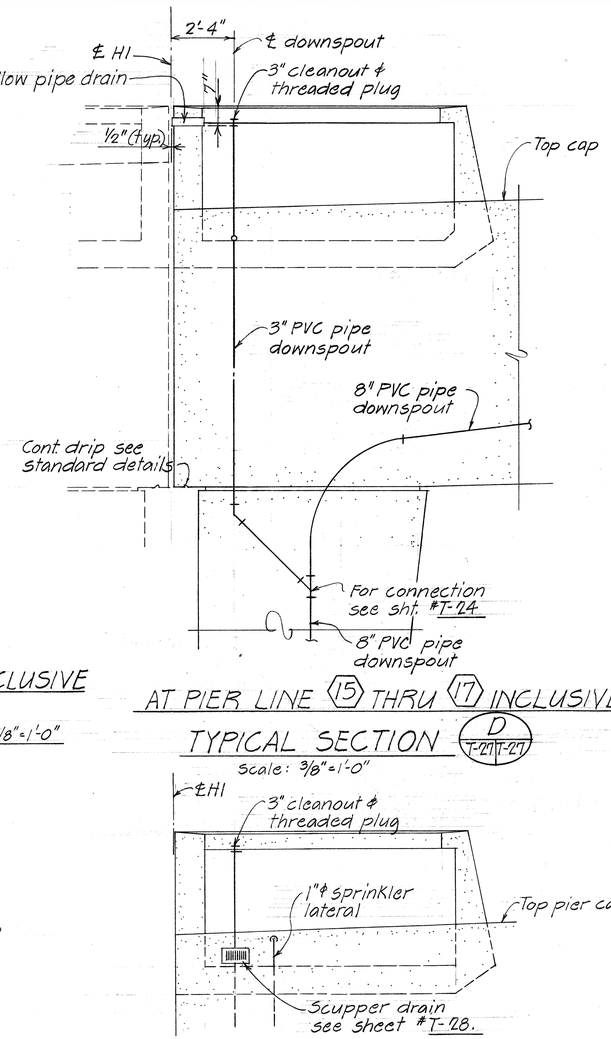
AT PIER LINE ⟨3⟩, ⟨5⟩, ⟨7⟩, ⟨9⟩, ⟨11⟩, ⟨13⟩, ⟨14⟩ INCLUSIVE

TYPICAL SECTION (A / T-27 | T-27) Scale: 3/8"=1'-0"

ELEVATION (B / T-27 | T-27) Scale: 3/8"=1'-0"

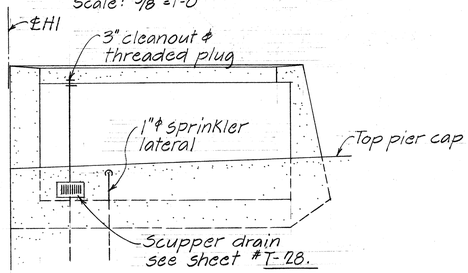


AT PIER LINE ⟨2⟩ THRU ⟨14⟩ INCL

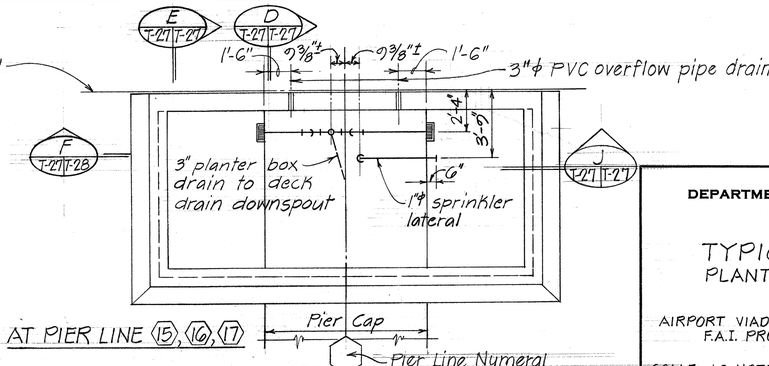


AT PIER LINE ⟨15⟩ THRU ⟨17⟩ INCLUSIVE

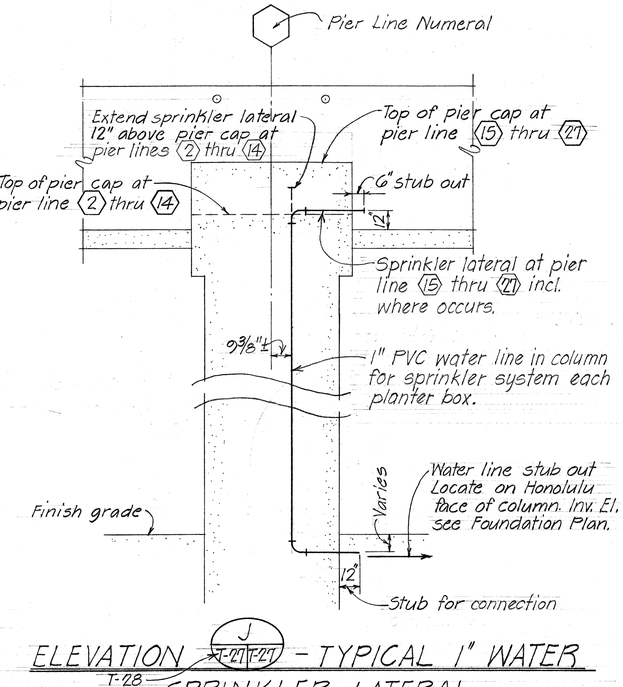
TYPICAL SECTION (D / T-27 | T-27) Scale: 3/8"=1'-0"



ELEVATION (E / T-27 | T-27) Scale: 3/8"=1'-0"



AT PIER LINE ⟨15⟩, ⟨16⟩, ⟨17⟩



ELEVATION (J / T-27 | T-27) - TYPICAL 1" WATER SPRINKLER LATERAL

T-28

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

NOTE:
All PVC and drain pipes and fittings shall be incidental to concrete and will not be paid for separately.

PLAN - TYPICAL PLANTER BOX DRAINAGE DETAILS PIER LINE ⟨2⟩ THRU ⟨17⟩ INCLUSIVE Scale: 1/4"=1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY		DATE Nov. 1978
	DRAWN BY	L.M.	"
	TRACED BY		"
NOTE BOOK	DESIGNED BY	DCO	"
	QUANTITIES BY		"
No.	CHECKED BY	DCO FG	"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS
PLANTER BOX DETAILS

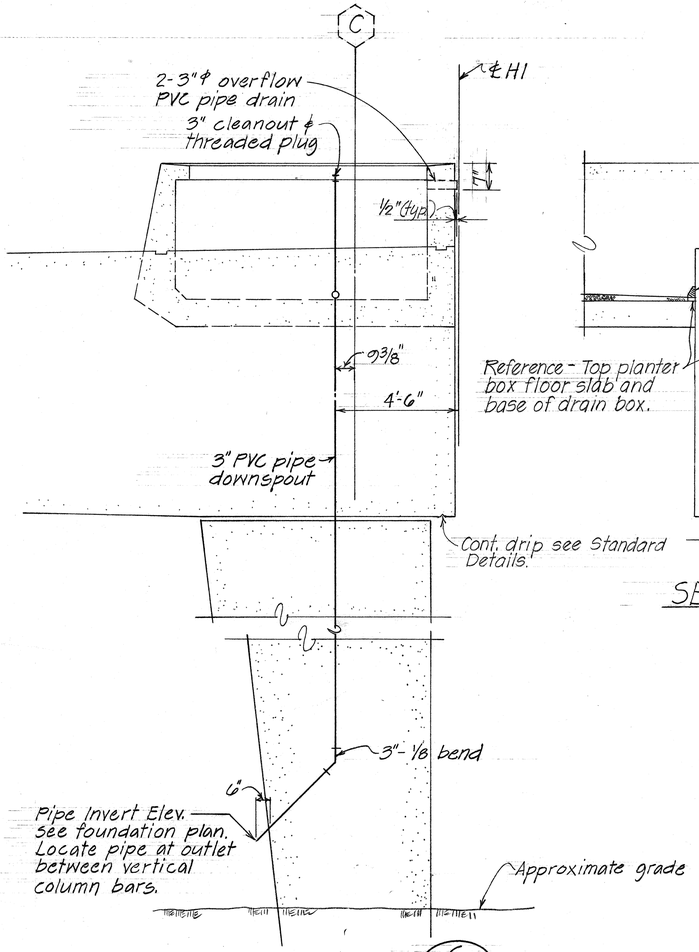
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

SCALE: AS NOTED DATE: NOV. 1978

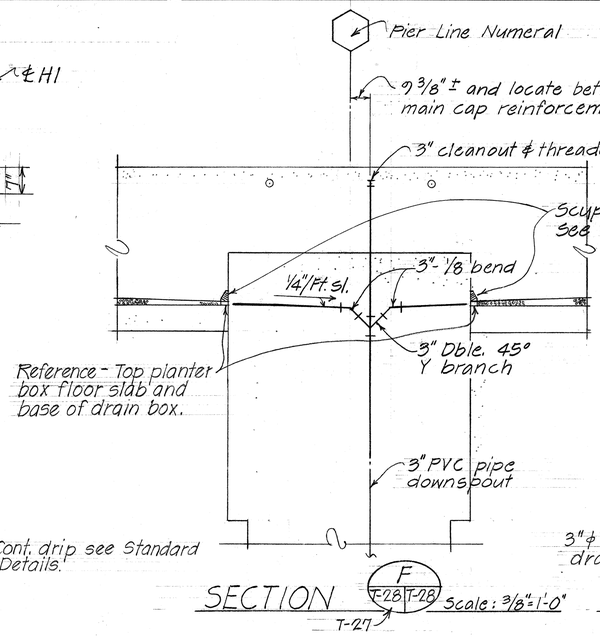
SHEET No. T-27 OF 29 SHEETS

K&E ® TRACING PAPER

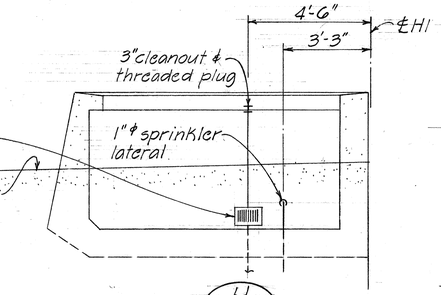
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	199	236



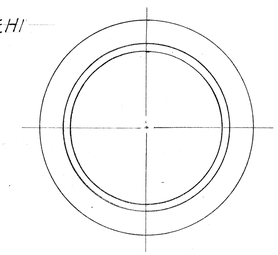
SECTION G T-28 T-28 Scale: 3/8"=1'-0"



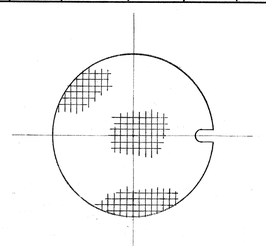
SECTION



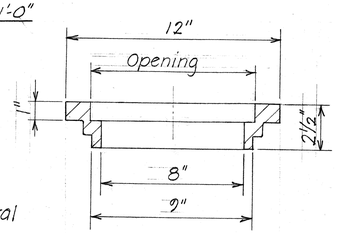
ELEVATION Scale: 3/8"=1'-0"



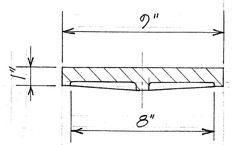
PLAN OF FRAME



TOP VIEW OF COVER

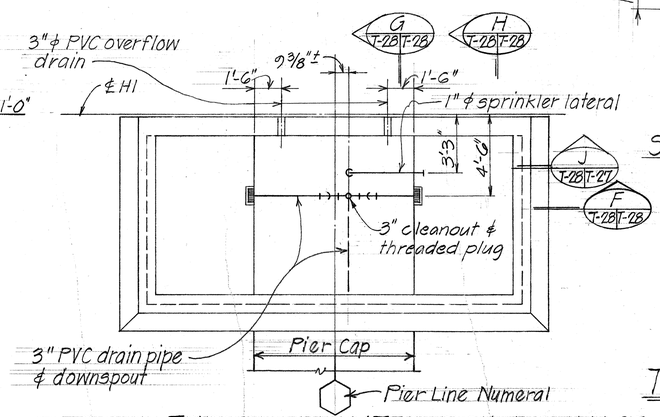


SECTION OF FRAME



SECTION OF COVER

NOTE :
Metal frame and cover casting to be ductile iron designed for highway traffic wheel loads of 16,000 lbs. and ASTM designation A536. The metal frame & cover shall be paid under Item-Furnishing & Installing Cast Iron Fittings.



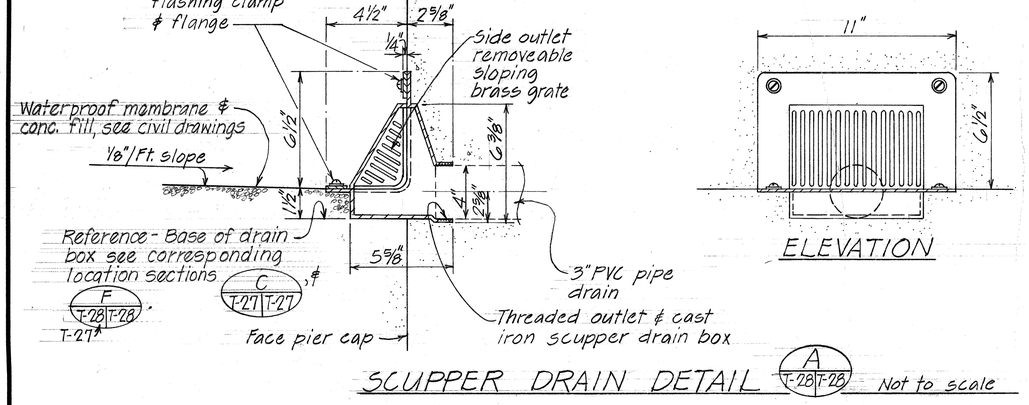
PLAN - TYPICAL PLANTER BOX DRAINAGE

DETAILS - PIER LINES (18) THRU (27) INCL. - WHERE OCCURS

TYPICAL DECK DRAIN CLEANOUT FRAME AND COVER

Scale : 3" = 1'-0"

REFERENCE NOTE:
For additional notes refer to sht. #T-27.



SCUPPER DRAIN DETAIL A T-28 T-28 Not to scale

ELEVATION

Note: Scupper drain box to be cast monolithic with pier cap. See specifications. Scupper drain assemblage shall be incidental to concrete.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE Nov.'78
	DRAWN BY L.A., L.M.	" "
	TRACED BY " "	" "
NOTE BOOK	DESIGNED BY R.K.	" "
No.	QUANTITIES BY " "	" "
	CHECKED BY D.C.Q., E.C.	" "

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS
MISCELLANEOUS DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

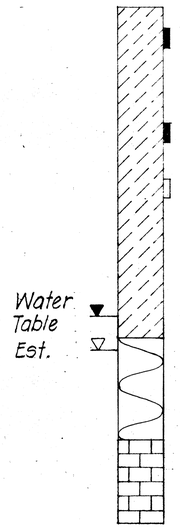
SCALE : AS NOTED DATE : NOV. 1978

SHEET No. T-28 OF 29 SHEETS

BORING LEGEND

T.H. TYPE

	Topsoil	
GW	Well-graded clean gravels	
GP	Poorly graded clean gravel	
GM	Gravel-sand-silt mixtures	
GC	Gravel-sand-clay mixtures	
SW	Well-graded sands	
SP	Poorly graded clean sands	
SM	Sand-silt mixtures	
SC	Sand-clay mixtures	
ML	Silts or silty sand	
CL	Lean clays	
MH	Elastic silts	
CH	Fat clays	
OL-OH	Organic silts or clays	
Tuff	Induration Volcanic Tuff	
Sandstone		
Coral	Coral Limestone	



Standard Penetration Test

4-5-7 4 Blows - 6 inches

MH 5 " 6 "

7 " 6 "

50/1" 50 Blows - 1 inch penetration

Qu = 4860 PSF Undisturbed Sample

Mc = 47%

Dd = 76.5 PCF

Tuff

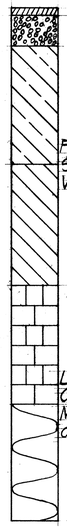
Rec. = 100% Percent Core Recovery

RQD = 59% Rock Quality Designation

Coral Limestone

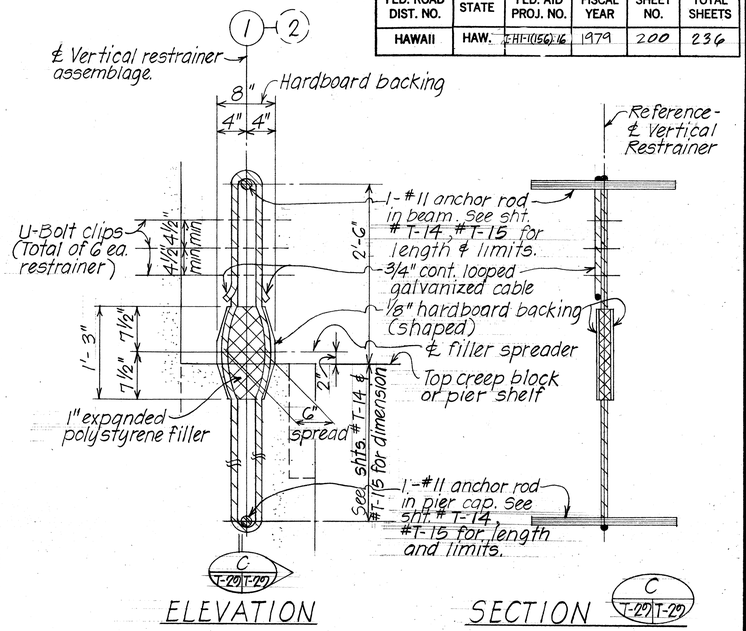
P.D. TYPE

- A.C. Pavement
- Base course, generaly coral
- Brown clay
- Brown silty clay
- Brown silty clay w/ some gravel
- Brown silty clay w/some gravel and small boulders
- Coral
- Coral & some clay
- Coral & silty clay
- Tuff



Firm; Stiff; or Very stiff — Condition of clay & silty clay

Loose; Compact; Medium compact; or Very compact — Condition of coral or tuff



ELEVATION SECTION

D T-29 T-29 TYPICAL VERTICAL RESTRAINER DETAILS

Scale : 1" = 1'-0"

NOTE:

1. Vertical restrainer assemblage shall be located at beams "A" & "C". See beam details for exact location.
2. Restrainer assemblage incidental to concrete & will not be paid for separately.
3. Restrainer assemblage shall be securely held in place while placing concrete.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-(156)16	1979	200	236

ORIGINAL PLAN	
NOTE BOOK	
No.	
SURVEY PLOTTED BY	
DRAWN BY LMA	DATE Nov. '78
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY DCO, EC	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL DETAILS
MISCELLANEOUS DETAILS

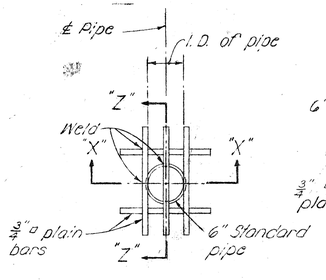
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-(156)16

SCALE: NO SCALE DATE: NOV. 1978

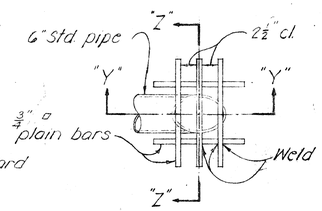
SHEET NO. T-29 OF 29 SHEETS

200

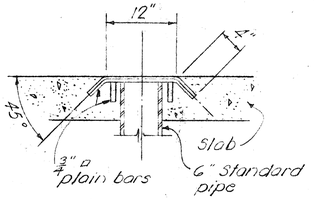
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-111-(056)-4	1979	201	236



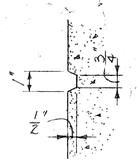
PLAN



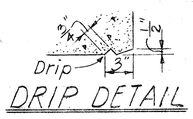
PLAN



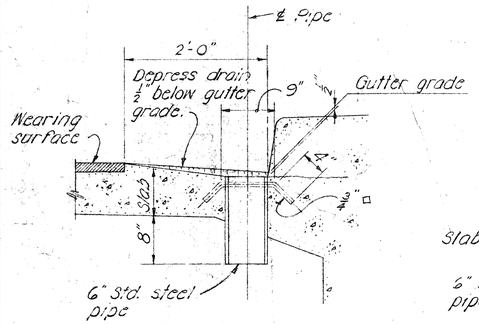
SECTION "Z-Z"



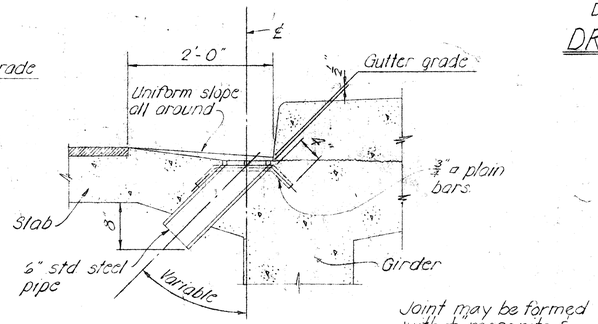
TYPICAL CONCRETE GROOVE DETAIL



DRIP DETAIL

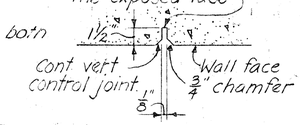


SECTION "X-X"



SECTION "Y-Y"

Joint may be formed with ⅛" masonite & cut back to the root of the chamfer on the exposed face

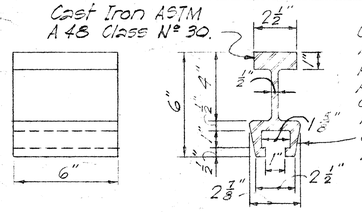


NOTE:

Metal drains shall be considered incidental to Class A Concrete in both concrete and steel bridges and will not be paid for separately.

Assemblage of grillage and pipe shall be hot-dip galvanized after all welding is completed.

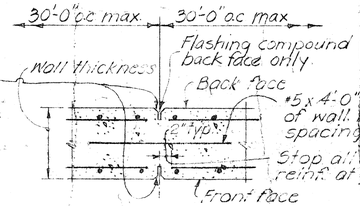
TYPICAL DRAINAGE DETAILS



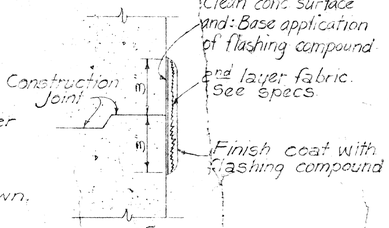
Contractor to take proper precautions to prevent the concrete from flowing into the opening of the inserts.

INSERT DETAIL

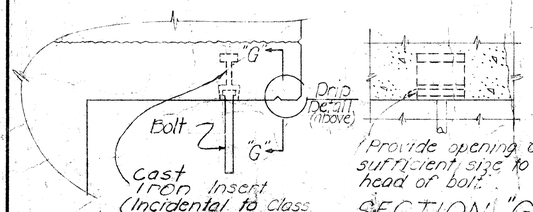
Vert. control joint on each face of wall to top of footing. See above detail and as directed by the Engineer



CONTROL JOINT DETAILS



TYP FLASHING COMPOUND WATERPROOFING DETAIL



SECTION "G-G"

Provide opening of sufficient size to insert head of bolt.

DETAIL of PIPE HANGERS & INSERTS

3" NAME ½" DATE

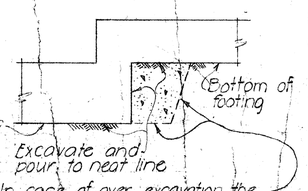
Depressed "V" letters ⅜" deep

Use correct name of bridge — Date of Year built

NOTE: Refer to corresponding detail drawings for placement of such names & dates at end post.

Exact details & spacing of letters & figures shall be as directed by the Engineer. See Note #12.

TYPICAL DETAIL OF LETTERS & FIGURES AT CONCRETE END POST



Note! In case of over excavation, the contractor shall backfill this area with minimum class D concrete at his own expense.

TYPICAL EXCAVATION FOR CONTINUOUS FOOTING STEP-UP

GENERAL NOTES

1 - All concrete shall be Class A unless otherwise noted.
2 - Reinforcing shall be detailed in accordance with A.C.I. Manual of Standard Practice for Detailing Reinforced Concrete Highway Structures unless otherwise noted.
3 - Clearance for reinforcing bars shall be as follows, unless otherwise noted:
  a - 1½" For stirrups of beams & pier caps.
  b - 2" For ties of columns.
  c - 2" For formed walls.
  d - 3" For footings.
4 - Minimum spacing between parallel bars shall be 2½ times the diameter of bars, but in no case shall the clear distance between the bars be less than 1½ times the maximum size of the coarse aggregate.
5 - All dimensions relating to reinforcing are to centers of bars unless otherwise noted.
6 - Reinforcing bars shall be securely tied at all intersections & lap splices & shall be held in place during pouring to maintain their proper locations as shown on plans.
7 - Vertical column bars shall be arranged in such a manner as to miss pier cap bars above as directed by the Engineer.
8 - Except as otherwise noted on drawings, all exterior corners & re-entrant angles in concrete work shall be chamfered ¾" x ¾".
9 - Concrete seats receiving steel plates, leadplates or neoprene pads shall be poured monolithically with supporting structures & top of concrete seats shall be finished with a steel trowel to a smooth level surface at the elevation shown on the plans.
10 - Elastomeric Pads: Bottom of bridge bearing pads shall be secured against displacement with adhesives approved by the Engineer. Pads shall be incidental to concrete and will not be paid for separately.
11 - Forms for all exposed surfaces of separation structures and surfaces of retaining walls visible from a traveled way or from a populated area shall be plywood except that metal forms may permitted provided a surface finish satisfactory to the Engineer can be obtained and the use of such forms is approved in writing by the Engineer. Forms for round columns shall be made of materials that will give a smooth finish and true dimensions as given in the plans. Forms for prestressed concrete members shall be either metal or plywood.
12 - Gothic letters and figures approximating dimensions shown will be acceptable if approved by the Engineer.
13 - The contractor shall verify the location of all existing utility lines and notify the respective owners before commencing work of excavation or driving of piles.
14 - Standard Detail Drawings refer to all structures in general, except for modifications as may be required for special conditions. For such modifications refer to the corresponding detailed drawings.

APPROVAL RECOMMENDED:
Paul T. Yamashita — BRIDGE DESIGN ENGINEER — 1-23-79 DATE

APPROVED
Paul T. Yamashita — For ASSISTANT CHIEF, ENGINEERING — 1-29-79 DATE

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
NOTES AND MISCELLANEOUS DETAILS

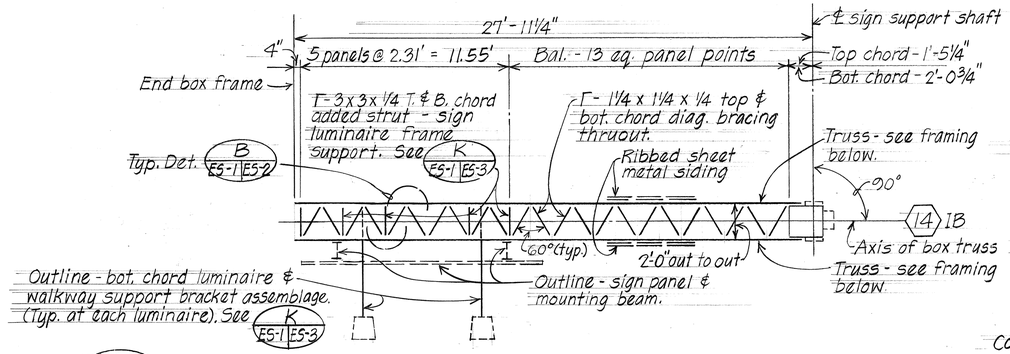
Date: October 1969

SHEET No. 1 OF 1 SHEETS DB-100

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY	
	TRACED BY	
NOTE BOOK	DESIGNED BY	
No.	QUANTITIES BY	
	CHECKED BY	DEC. 78

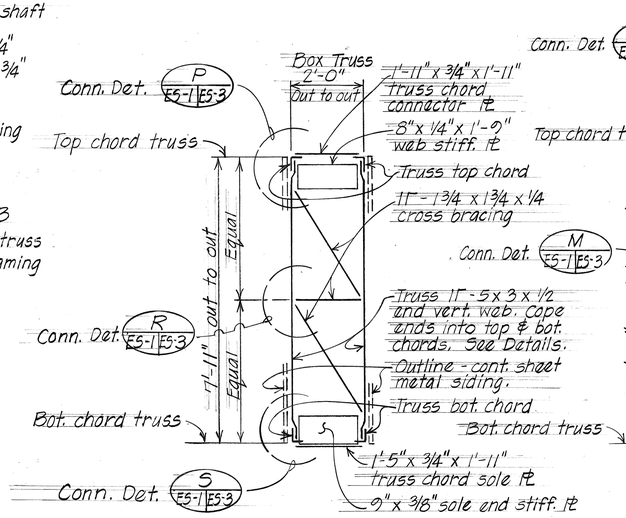
PRINTED ON NO. 1000H CLEARPRINT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156)16	1979	202	236



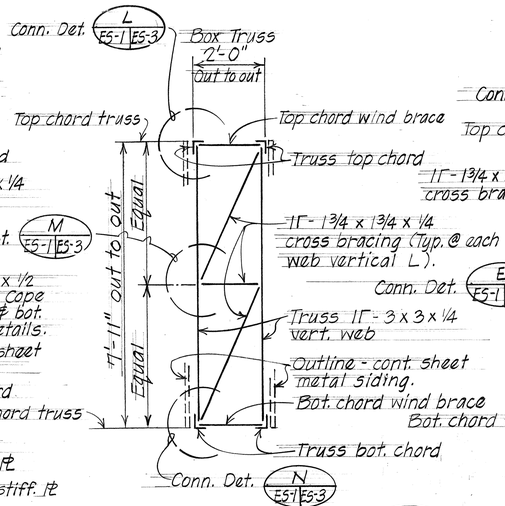
A ES-1 | ES-1 PLAN - TOP & BOTTOM CHORD WIND BRACE FRAMING

Scale: ¼" = 1'-0"



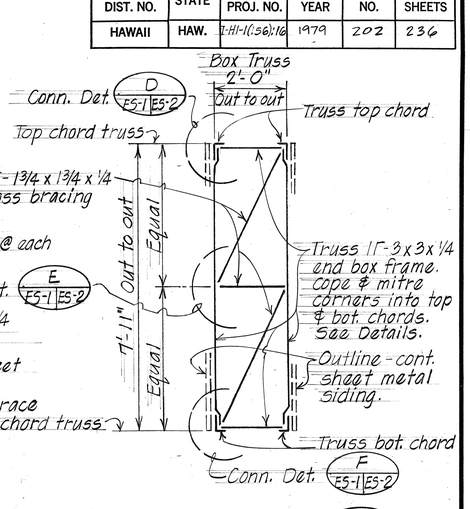
B ES-1 | ES-1 SECTION (END CROSS BRACING DETAILS)

Scale: ½" = 1'-0"



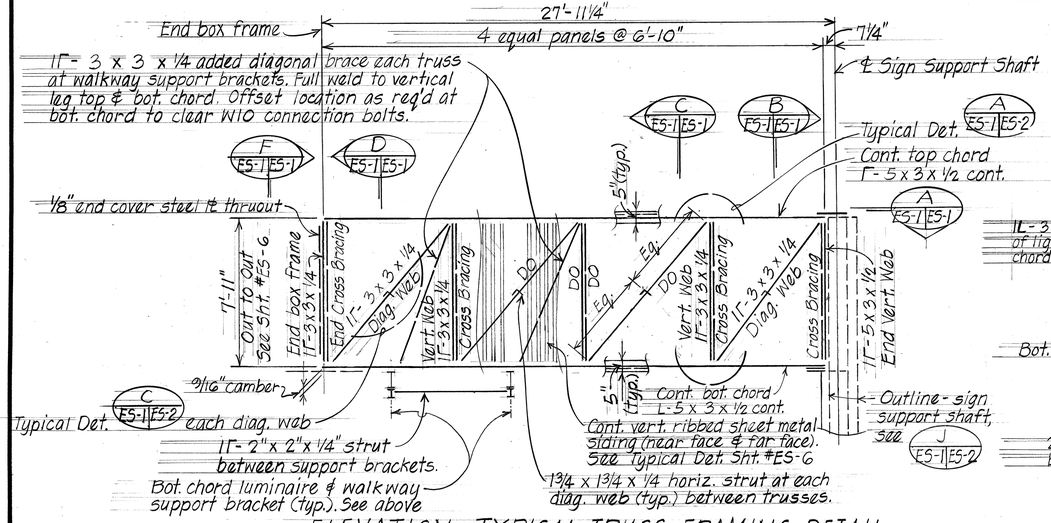
C ES-1 | ES-1 TYPICAL SECTION (INTERMEDIATE CROSS BRACING DETAILS)

Scale: ½" = 1'-0"



D ES-1 | ES-1 SECTION (END CROSS BRACING DETAILS)

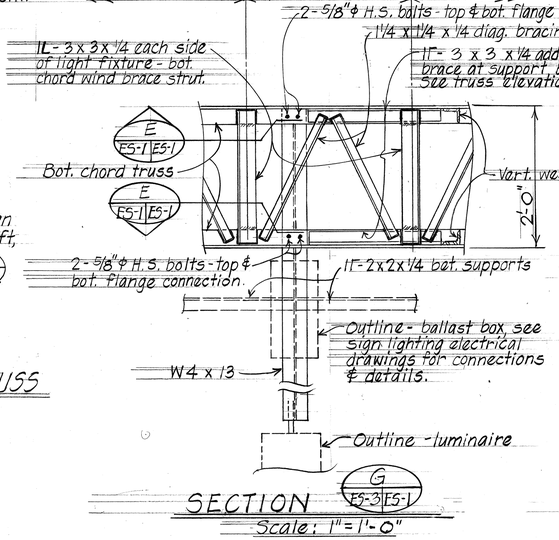
Scale: ½" = 1'-0"



ELEVATION - TYPICAL TRUSS FRAMING DETAIL

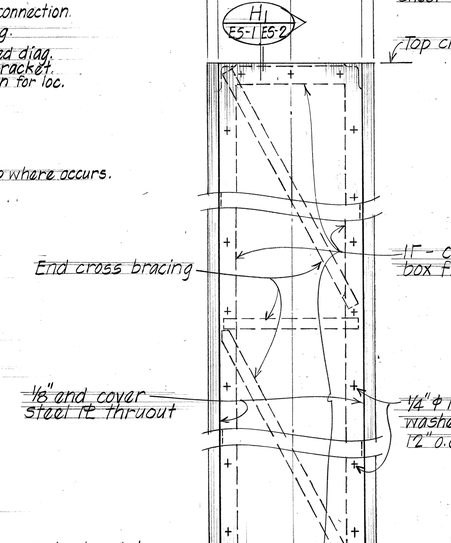
CANTILEVER EXPRESSWAY SIGN E-2 - BOX BEAM CLOSED TRUSS

Scale: ¼" = 1'-0"



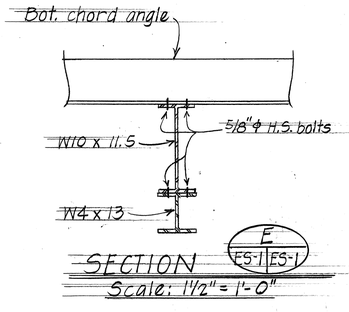
SECTION

Scale: 1" = 1'-0"



F ES-1 | ES-1 ELEVATION

Scale: 1" = 1'-0"



E ES-1 | ES-1 SECTION

Scale: 1½" = 1'-0"

NOTE:

1. For general & design notes, refer to Sht. #ES-5.
2. Luminaire support frames, sign supports & mounting beams, refer to corresponding adjacent details; Sht. #ES-3, #ES-6.
3. For additional details, refer to corresponding highway lighting & sign drawings.

ORIGINAL PLAN | NOTE BOOK | No.

SURVEY PLOTTED BY: NT
DRAWN BY:
TRACED BY:
DESIGNED BY: SA, DCO
QUANTITIES BY:
CHECKED BY: DCO, EC
DATE: Nov. '78

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

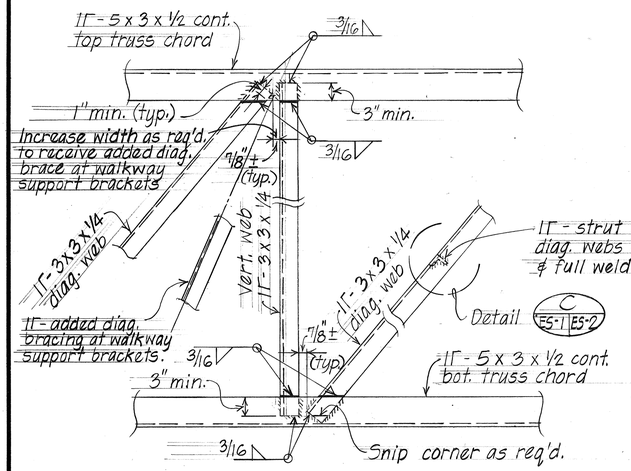
EXPRESSWAY SIGN E-2
CANTILEVER BOX BEAM CLOSED TRUSS
FRAMING & TRUSS DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156): 16

Scale: As Noted Date: Nov. 1978

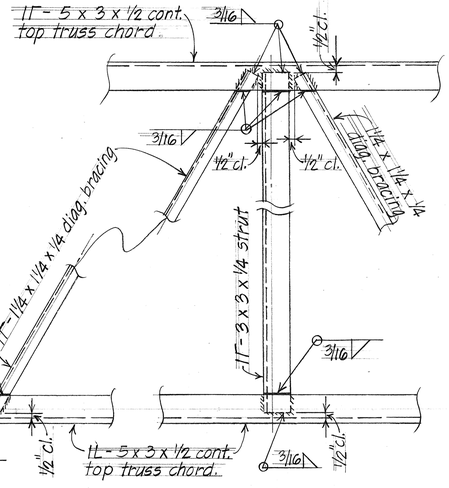
SHEET NO. ES-1 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(56);16	1979	203	236



TYPICAL DETAIL A ES-1 ES-2

Scale: 1" = 1'-0"

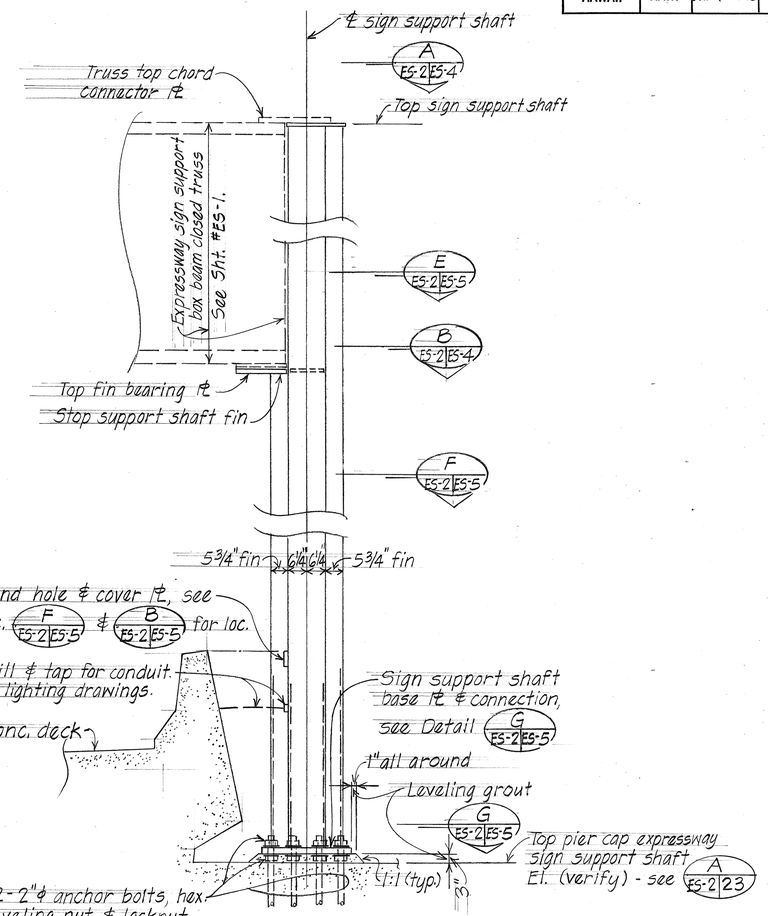


TYPICAL AT STRUT - LUMINAIRE SUPPORT

TYPICAL DETAIL B ES-1 ES-2 WIND BRACE CONNECTION

(TOP CHORD AS SHOWN - BOT. CHORD SIMILAR)

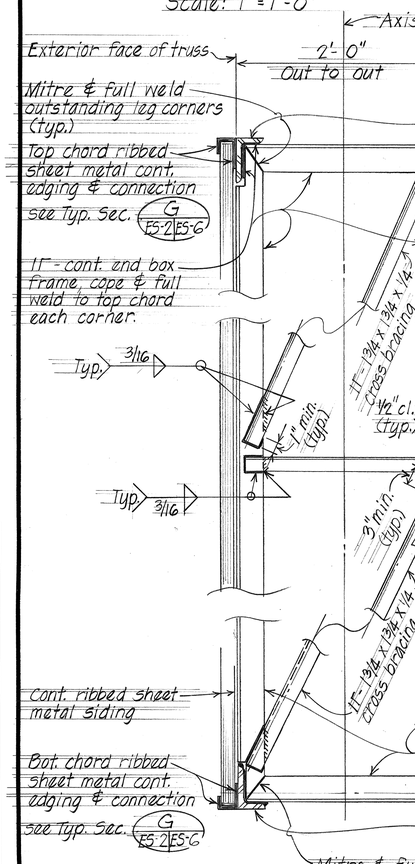
Scale: 1½" = 1'-0"



SINGLE SUPPORT SHAFT DETAILS

CANTILEVER BOX TRUSS SIGN E-2

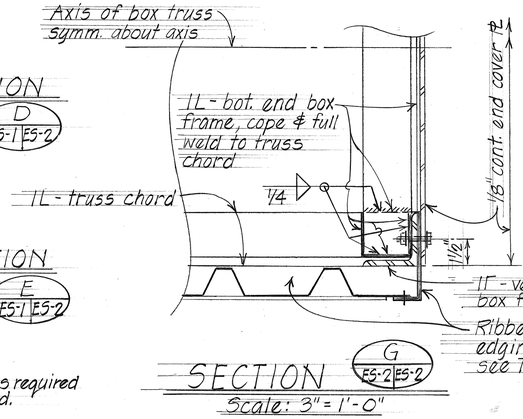
Scale: ½" = 1'-0"



CONNECTION DETAIL D ES-1 ES-2

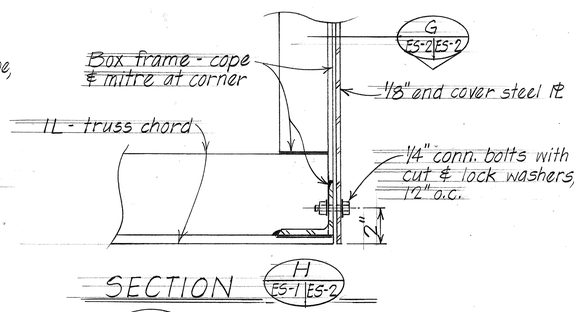
CONNECTION DETAIL E ES-1 ES-2

CONNECTION DETAIL F ES-1 ES-2



SECTION G ES-2 ES-2

Scale: 3" = 1'-0"



SECTION H ES-1 ES-2

SECTION H1 ES-1 ES-2 SIMILAR EXCEPT OPPOS. HAND

Scale: 3" = 1'-0"

ORIGINAL PLAN	SURVEY PLOTTED BY	NY	DATE	Nov. '78
	DRAWN BY	"		"
	TRACED BY	SA		"
NOTE BOOK	DESIGNED BY	DCO		"
	QUANTITIES BY			"
No.	CHECKED BY	DCO, FC		"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

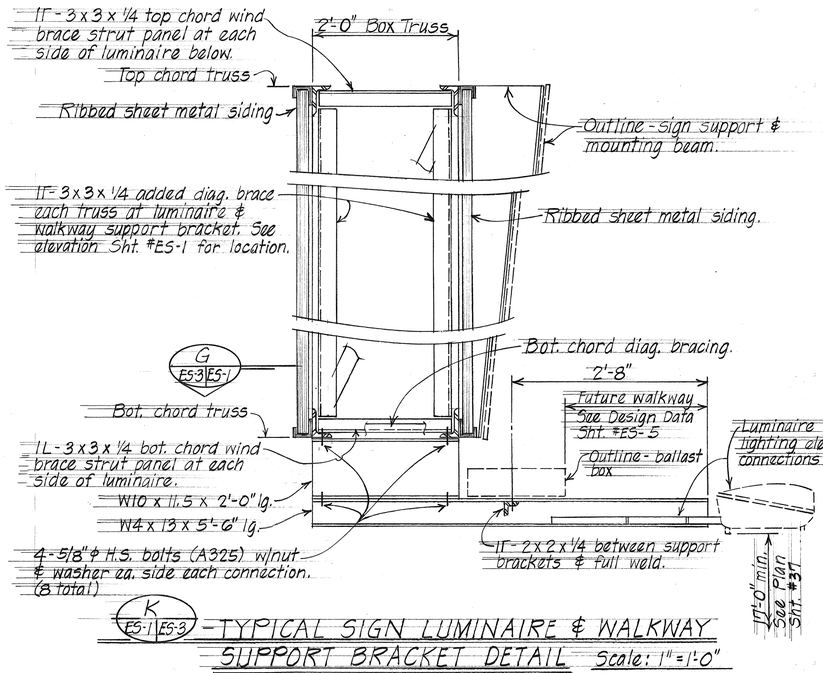
EXPRESSWAY SIGN E-2
CANTILEVER BOX BEAM CLOSED TRUSS
FRAMING & SUPPORT SHAFT DETAILS

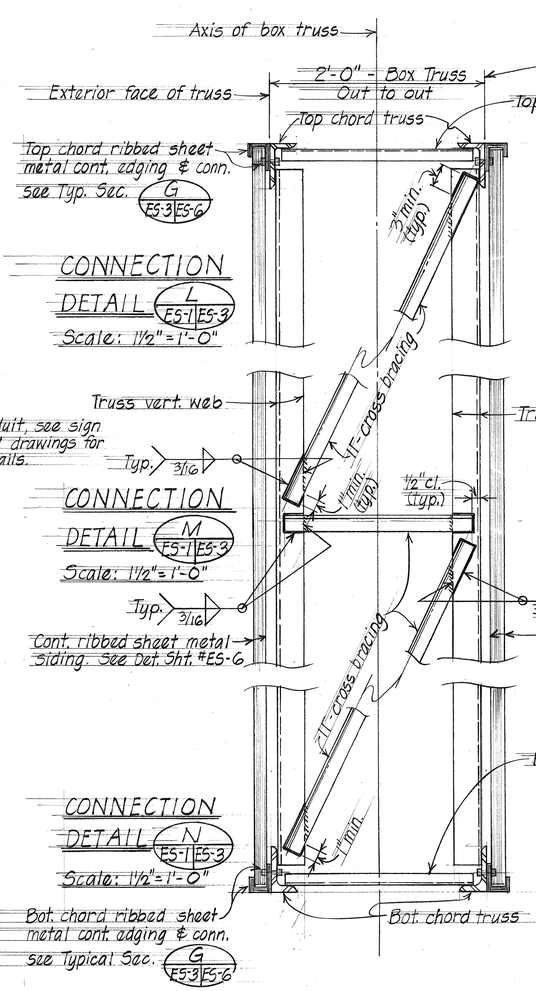
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16

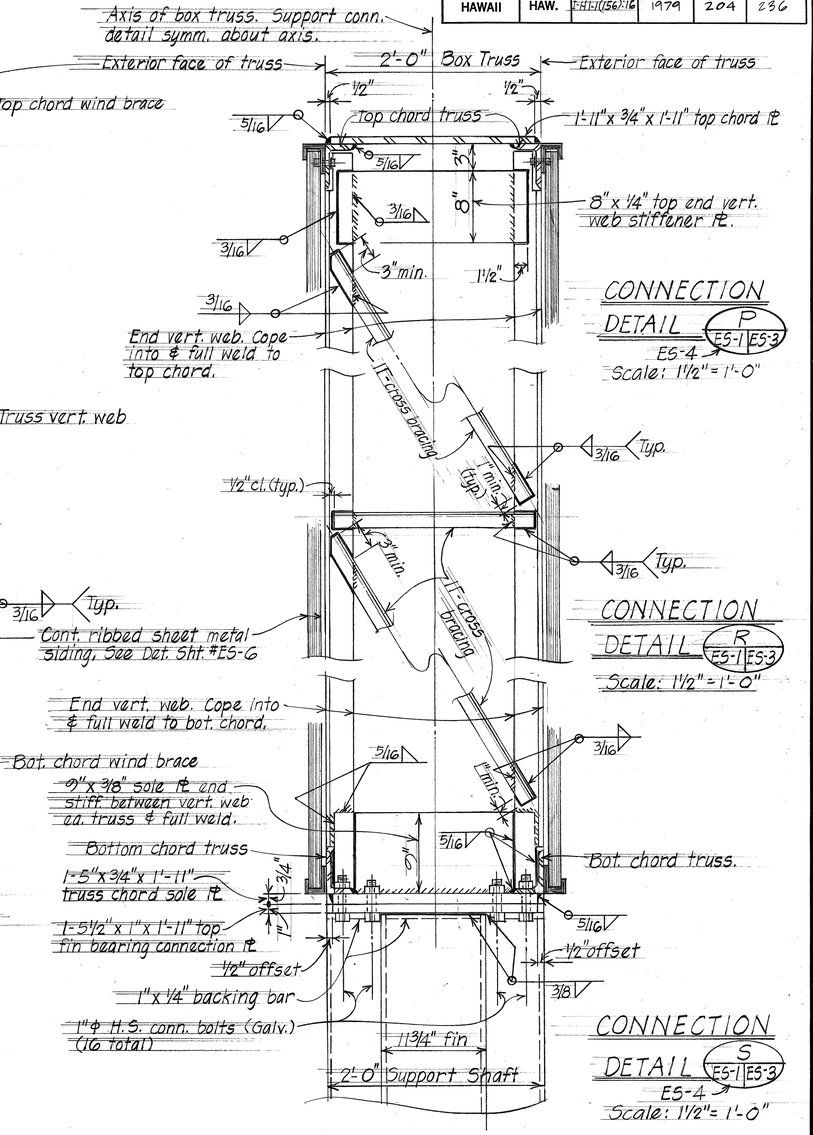
Scale: As Noted Date: Nov. 1978

SHEET NO. ES-2 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-HI-1(156):16	1979	204	236







ORIGINAL PLAN	SURVEY PLOTTED BY		DATE Nov. '78
	DRAWN BY	NY	"
NOTE BOOK	TRACED BY		"
	DESIGNED BY	SA DCO	"
No.	QUANTITIES BY		"
	CHECKED BY	DCO, EC	"

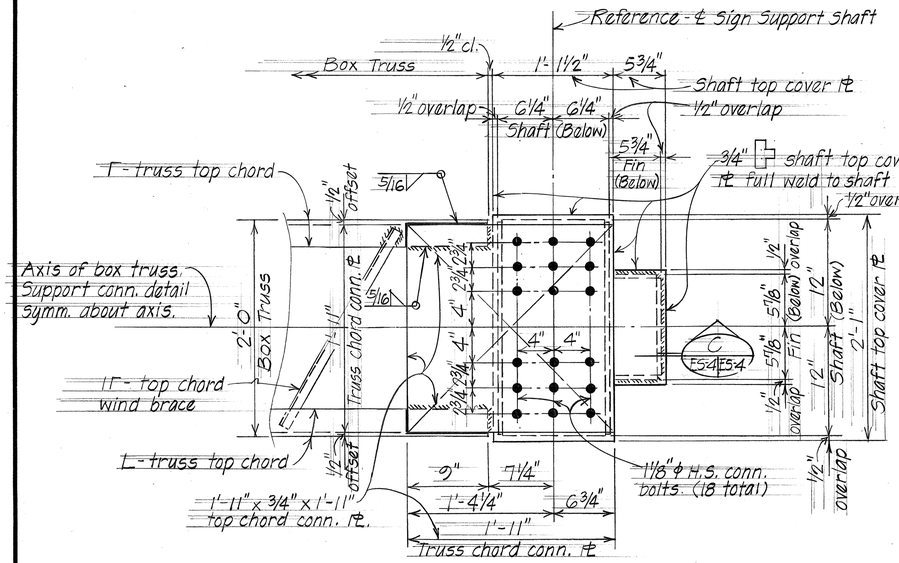
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

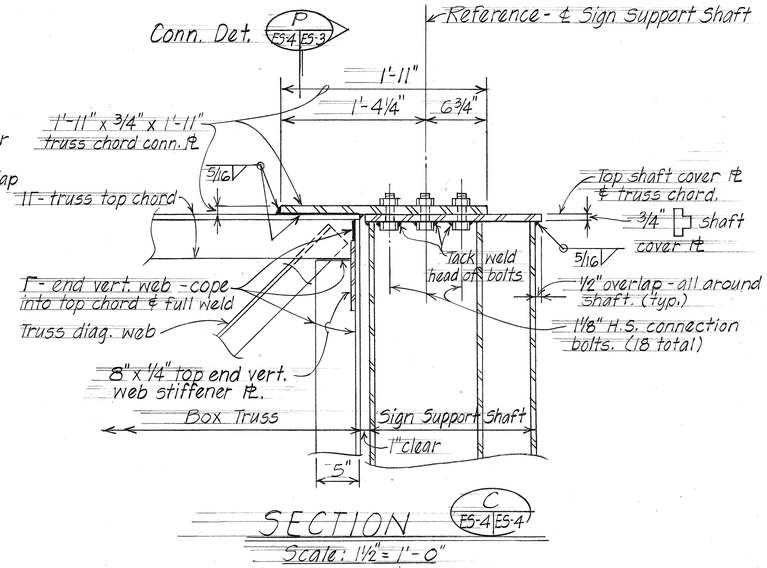
EXPRESSWAY SIGN E-2
CANTILEVER BOX BEAM CLOSED TRUSS FRAMING DETAILS

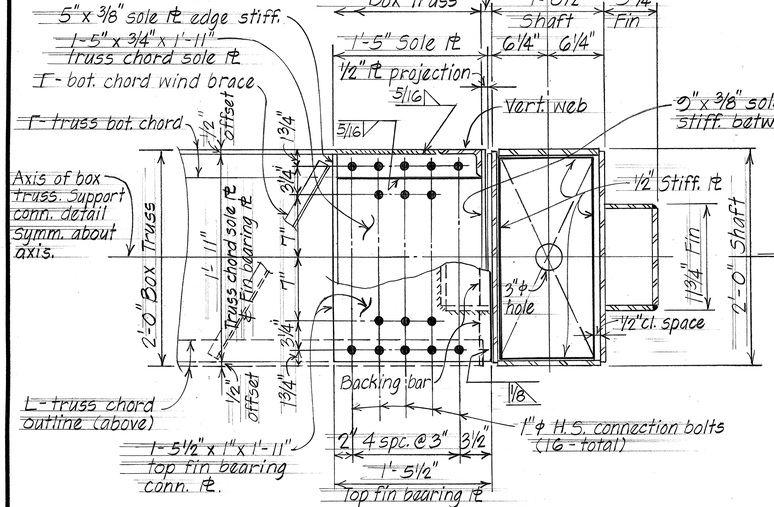
AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16
Scale: As Noted Date: Nov. 1978

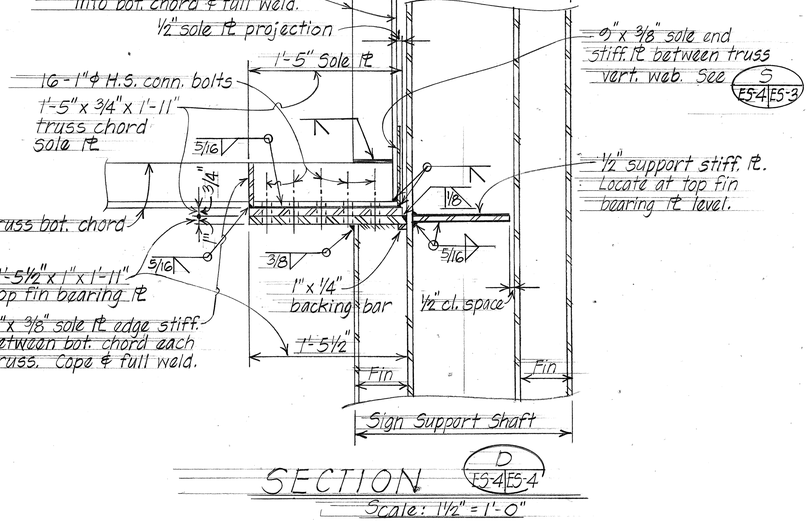
SHEET No. ES-3 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	205	236









ORIGINAL PLAN

SURVEY PLOTTED BY	
DRAWN BY	NY
TRACED BY	
DESIGNED BY	SA, DCO
QUANTITIES BY	
CHECKED BY	DCO, EG
DATE	Nov. '78

NOTE BOOK
No.

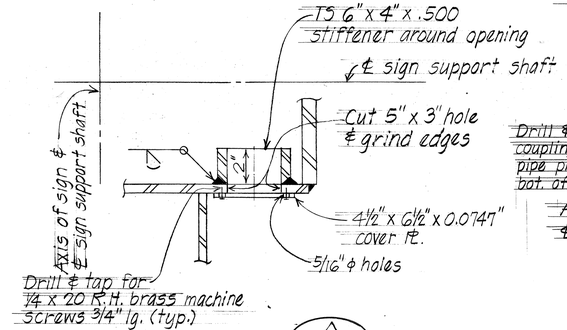
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

EXPRESSWAY SIGN E-2
CANTILEVER BOX BEAM CLOSED TRUSS
TRUSS CONNECTION DETAILS
AT SUPPORT SHAFT

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16
Scale: As Noted Date: Nov. 1978

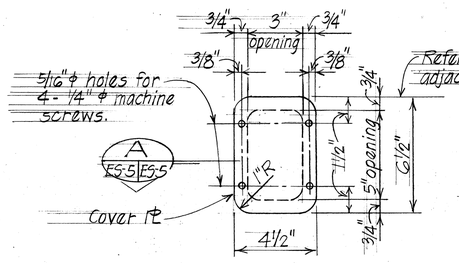
SHEET No. E5-4 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156):16	1979	206	236



SECTION A (ES-5 | ES-5) Scale: 3" = 1'-0"

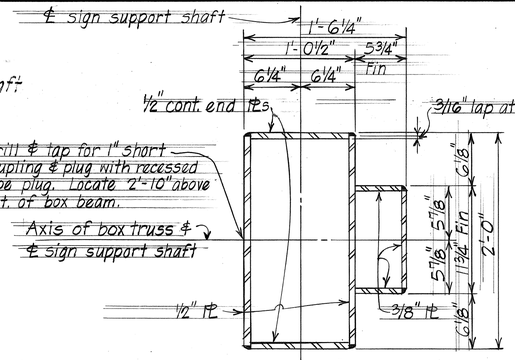
NOTE: For locations of handholes at sign support shaft, see J (ES-5 | ES-2)



ELEVATION

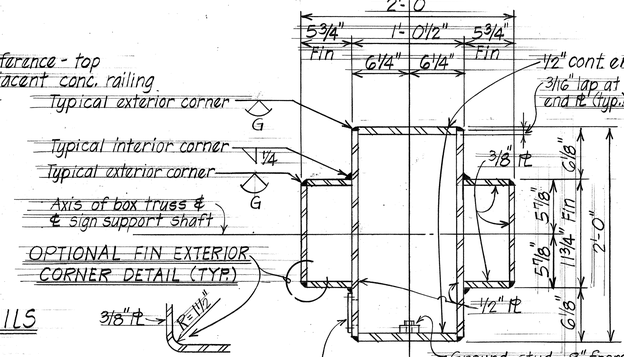
B (ES-5 | ES-5) HAND HOLE & COVER PL DETAILS

ES-2



SECTION E (ES-2 | ES-5) Scale: 1½" = 1'-0"

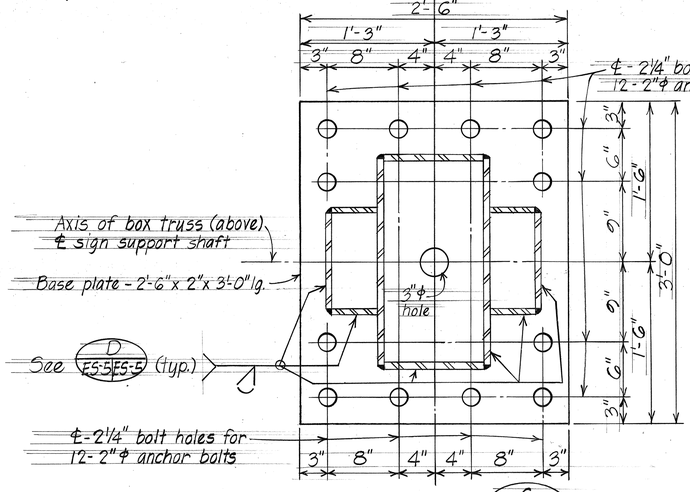
℄ sign support shaft



J (ES-5 | ES-2), B (ES-5 | ES-5)

SECTION F (ES-2 | ES-5) Scale: 1½" = 1'-0"

℄ sign support shaft



BASE PLATE G (ES-5 | ES-5) Scale: 1½" = 1'-0"

ES-2

GENERAL NOTES

MATERIALS:

1. Expressway sign support box truss members & supporting shafts; sheet metal siding & edgings; connection bolts, nut & washers; to be structural steel. All surfaces shall be hot dipped galvanized after fabrication prior to painting. See Specifications & Sht. #ES-6.
2. Galvanized surfaces of expressway sign frame & supports, note-1 above shall be painted - see specifications. Pigment for final coats of exterior weatherproof enamel paints to be determined by the Engineer.
3. Aluminum members and surfaces in contact with structural steel shall be isolated with neoprene material as directed by the Engineer.

RIBBED SHEET METAL NOTES:

1. All ribbed sheet metal & formed edging shall be galvanized steel conforming to ASTM Designation: A446, Grade A; G165 Coating Designation in conformance with ASTM Designation: A525.
2. Connection bolts, nuts & washers to be galvanized steel ASTM A307.

CONSTRUCTION METHOD:

1. See Standard Specifications for Road & Bridge Construction, 1976 Edition & Design Note above.

DESIGN:

AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, dated 1975.

DESIGN DATA:

Wind Loading: Normal to face of sign = 38 psf (75 mph wind)
Transverse to face of sign = 0.2 of normal force.
Walkway & Railing Load: 375 lb. max.
L.L. each bracket = 500#
Ice Load: None
Structural Steel: ASTM A-36 fy = 36,000 psi.
Anchor Bolts: ASTM A-354 GR BB.

WELDING:

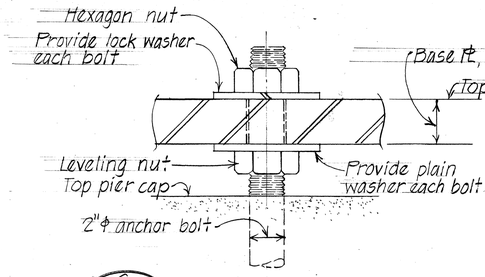
All welding to be continuous welds except as otherwise noted on the plans.

GENERAL:

1. Overhead expressway sign support E-2 shall be paid as described in the special provisions.

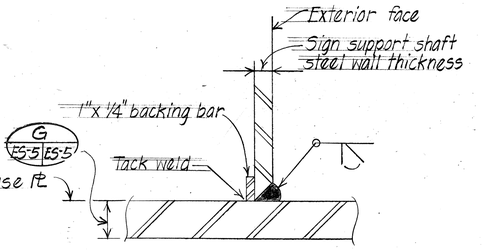
REFERENCE:

1. Refer to Sht. #T-1, for General Notes, Symbols & Abbreviations not covered by these drawings.
2. Refer to civil drawings for location layout plans of the expressway signs



C (ES-2 | ES-5) TYPICAL BASE PL ANCHOR BOLT CONNECTION DETAIL

Scale: 3" = 1'-0"



D (ES-5 | ES-5) TYPICAL SIGN SUPPORT SHAFT BASE CONNECTION DETAILS

Not to Scale

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

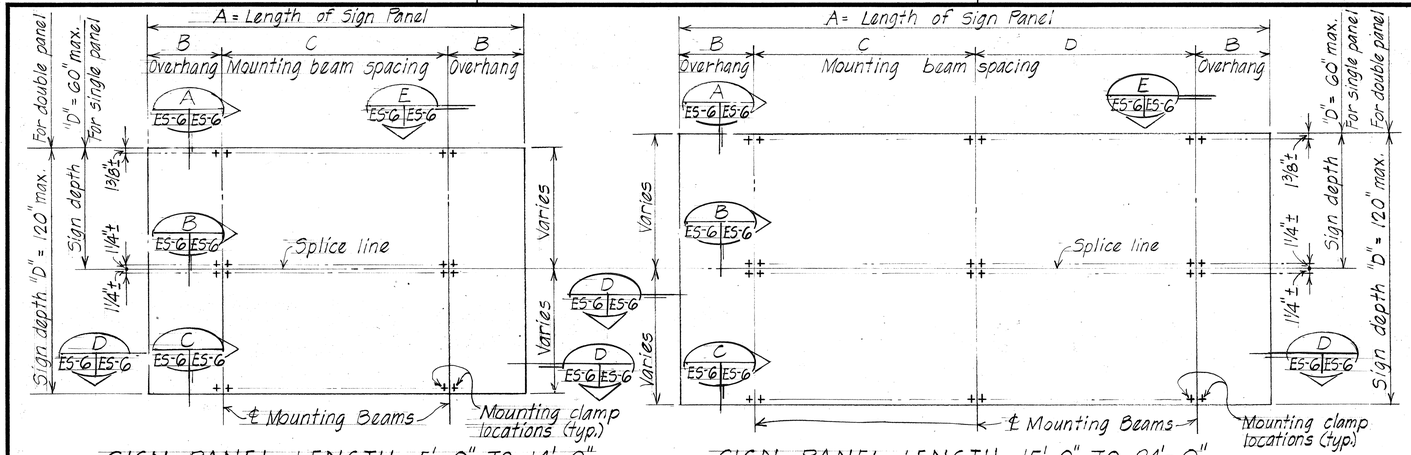
EXPRESSWAY SIGN E-2
CANTILEVER BOX BEAM CLOSED TRUSS
SUPPORT SHAFT SECTIONS & DETAILS
GENERAL NOTES

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156):16
Scale: As Noted Date: Nov. 1978
SHEET NO ES-5 OF 6 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY: NY	DATE: NOV. '78
NOTE BOOK	DRAWN BY: "	"
No.	TRACED BY: "	"
	DESIGNED BY: SA, DO	"
	QUANTITIES BY: "	"
	CHECKED BY: DCO, EC	"

40

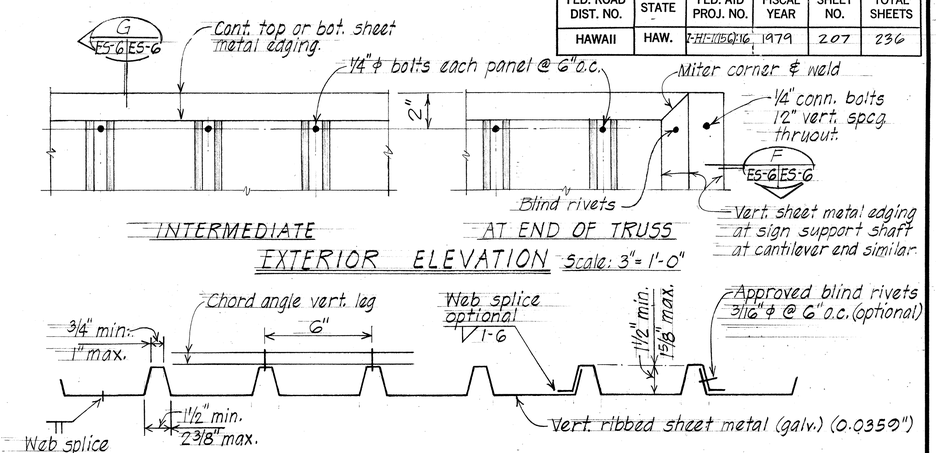
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(156)16	1979	207	236



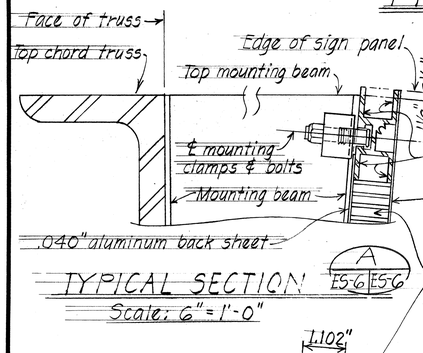
SIGN PANEL LENGTH 5'-0" TO 14'-0"

SIGN PANEL LENGTH 15'-0" TO 24'-0"

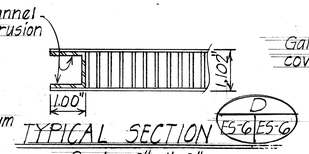
TYPICAL SIGN PANEL ELEVATIONS Not to Scale



TYPICAL RIBBED SHEET METAL SECTIONS Scale: 3"= 1'-0"

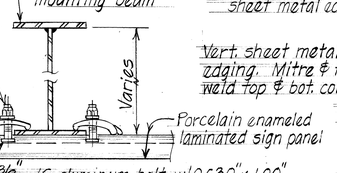


TYPICAL SECTION Scale: 6"= 1'-0"

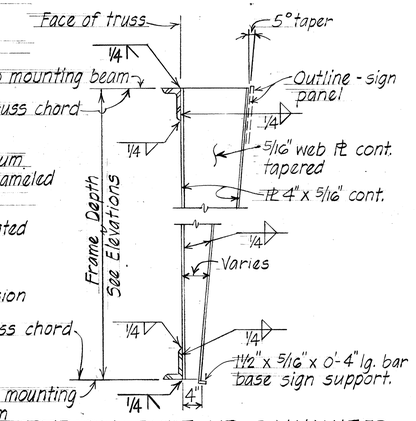


TYPICAL SECTION Scale: 6"= 1'-0"

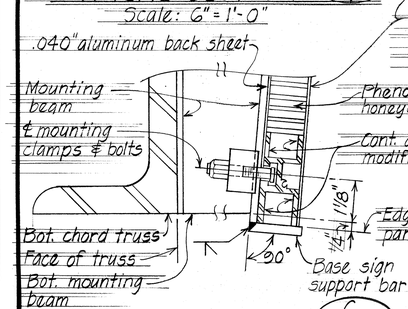
TYPICAL SECTION A ES-6 ES-6 Scale: 6"= 1'-0"



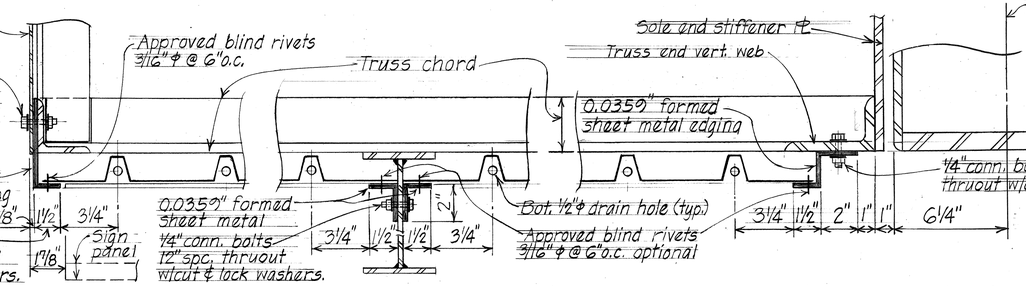
TYPICAL CONNECTION (MOUNTING CLAMP) E ES-6 ES-6 Scale: 3"= 1'-0"



TYPICAL BUILT-UP GALVANIZED STEEL MOUNTING BEAM Scale: 3/4"= 1'-0"

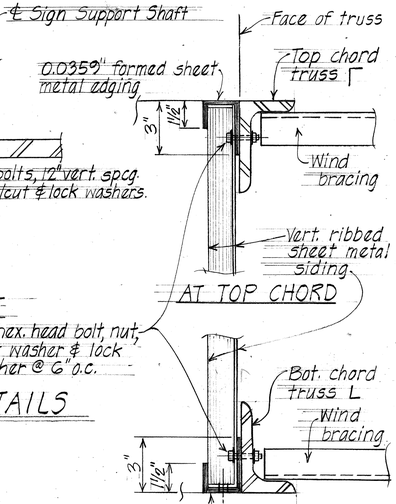


TYPICAL SECTION C ES-6 ES-6 Scale: 6"= 1'-0"



END AT CANTILEVER AT MOUNTING BEAM END AT SIGN SUPPORT SHAFT

TYPICAL SECTION F ES-6 ES-6 ES-2 Scale: 3"= 1'-0"



TYPICAL SECTION G ES-6 ES-6 ES-2 ES-3 Scale: 3"= 1'-0"

TYPICAL GALVANIZED RIBBED SHEET METAL SIDING AND CONNECTION DETAILS

MOUNTING BEAM SCHEDULE

SIGN PANEL LENGTH * A	NUMBER MOUNTING BEAMS	SIGN PANEL OVERHANG B	MOUNTING BEAM SPACING C	D
6'-0"	2	6"	5'-0"	
7'-0"	2	12"	5'-0"	
8'-0"	2	12"	6'-0"	
9'-0"	2	12"	7'-0"	
10'-0"	2	18"	7'-0"	
11'-0"	2	18"	8'-0"	
12'-0"	2	24"	8'-0"	
13'-0"	2	24"	9'-0"	
13'-6"	2	24"	9'-6"	
14'-0"	2	24"	10'-0"	
15'-0"	3	6"	7'-0"	7'-0"
16'-0"	3	6"	7'-6"	7'-6"
17'-0"	3	12"	7'-6"	7'-6"
18'-0"	3	12"	8'-0"	8'-0"
19'-0"	3	12"	8'-6"	8'-6"
20'-0"	3	18"	8'-6"	8'-6"
21'-0"	3	18"	9'-0"	9'-0"
22'-0"	3	24"	9'-0"	9'-0"
23'-0"	3	24"	9'-6"	9'-6"
24'-0"	3	24"	10'-0"	10'-0"

SIGN PANEL MOUNTING NOTES:

1. *Signs longer than 24' are fabricated and mounted as adjoining single panels.
2. Laminated sign panel depths more than 60" require additional mounting clamps located 1/4"± ea. side of panel splice line. Exact location is dependent on sign panel manufacturer.
3. Torque aluminum sign panel mounting bolt to 100 in.-Lbs.

ORIGINAL PLAN	NOTE BOOK	No.
SURVEY PLOTTED BY	DATE Nov '78	
DRAWN BY	" "	"
TRACED BY	" "	"
DESIGNED BY SA DO	QUANTITIES BY	
CHECKED BY DCG EG		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

EXPRESSWAY SIGN E-2

CANTILEVER BOX BEAM CLOSED TRUSS

TYPICAL SIGN PANEL MOUNTING AND RIBBED SHEET METAL SIDING DETAILS

AIRPORT VIADUCT - AIRPORT INTERCHANGE
F.A.I. PROJ. NO. I-HI-1(156)16
Scale: As Noted Date: Nov. 1978

SHEET NO ES-6 OF 6 SHEETS