FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(66)	1992	1	440

INDEX TO PLANS

SHEET NO.	DESCRIPTION
1 – 10	GENERAL
11 – 94	MECHANICAL
95 – 294	ELECTRICAL (1) (2) (3)
295 – 362	ARCHITECTURAL (4) (5)
363 – 398	SUPPORT STRUCTURES (6)
399 – 410	SYSTEMS
411 - 438	HAIKU O&M FACILITY (7) (8)
439 - 440	HAIKU OMEGA TRANSMITTER FACILITY
———	REFERENCE PLANS (9)

Plan Sht. Nos. (1) 105S-1, (2) 124S-1, (3) 127S-1, (4) 309S-1, (5) ADD. 362S-1, 362S-2, (6) 395S-1, (7) ADD. 423S-1, ADD. 423S-2, (8) ADD. 433S-1 & (9) 440S-1 to 440S-11 are supplementary sheets to this project, added during Addendum & "AS BUILT" postings.
TOTAL SHEET COUNT after Addendum & "AS BUILT" postings is 461 sheets.

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

HONOLULU, HAWAII

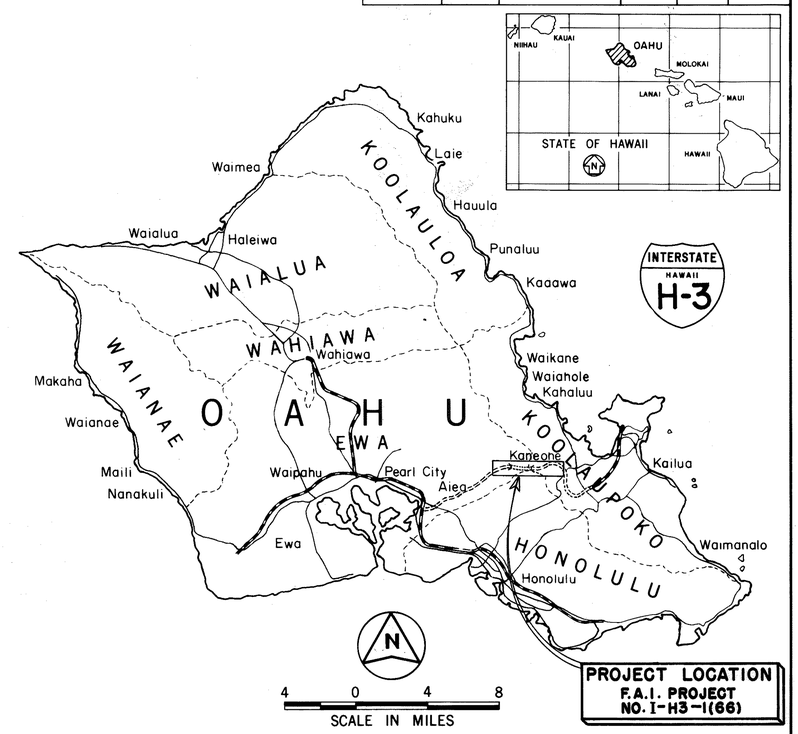
"AS-BUILT"
PLANS FOR

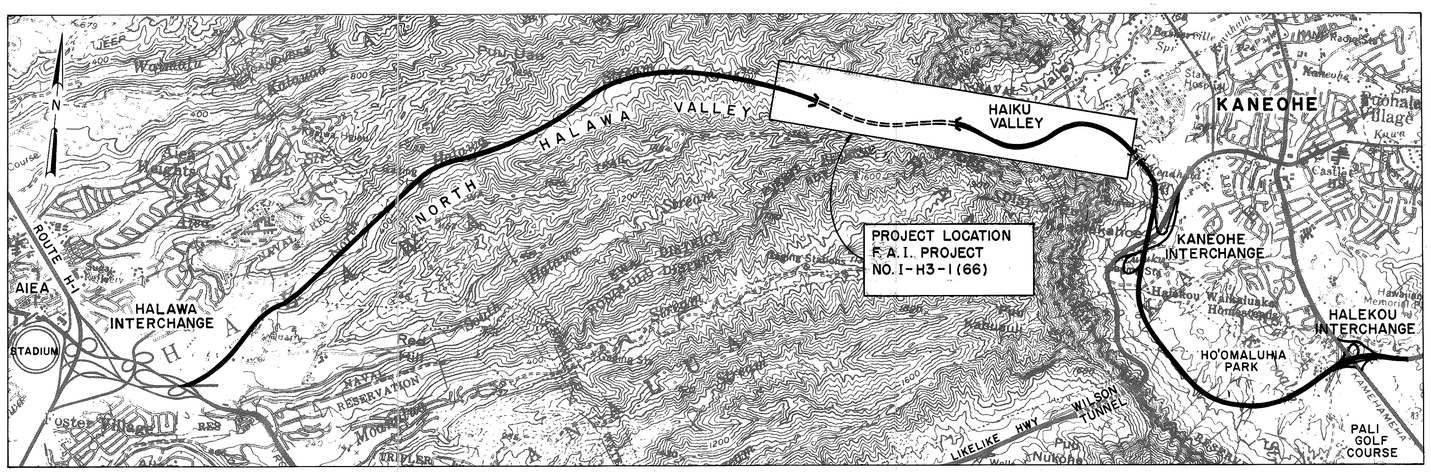
CONSTRUCTION OF A PORTION OF

INTERSTATE ROUTE H-3

MECHANICAL, ELECTRICAL AND ARCHITECTURAL FINISH
FEDERAL AID INTERSTATE PROJECT NO. I-H3-1(66)

DISTRICTS OF KOOLAUPOKO AND EWA
ISLAND OF OAHU





LAYOUT PLAN

DESIGN CLASSIFICATION

ADT (1998)	39,430
ADT (2008)	45,220
DHV	4,282
D	76/24
T (HOURLY)	2.10 %
T (DAILY)	4.10 %
V	60 MPH *
*	50 MPH AT HAIKU OUTBOUND PORTAL BUILDING

CHANGES MADE DURING CONSTRUCTION HAVE BEEN INCORPORATED ON THESE PLANS EXCEPT CHANGES IN THE ORIGINAL THEORETICAL QUANTITIES. FOR ACTUAL QUANTITIES, REFER TO PROJECT LEDGER AND/OR COMPUTATION BOOK.

RESIDENT ENGINEER — DATE 2/10/00

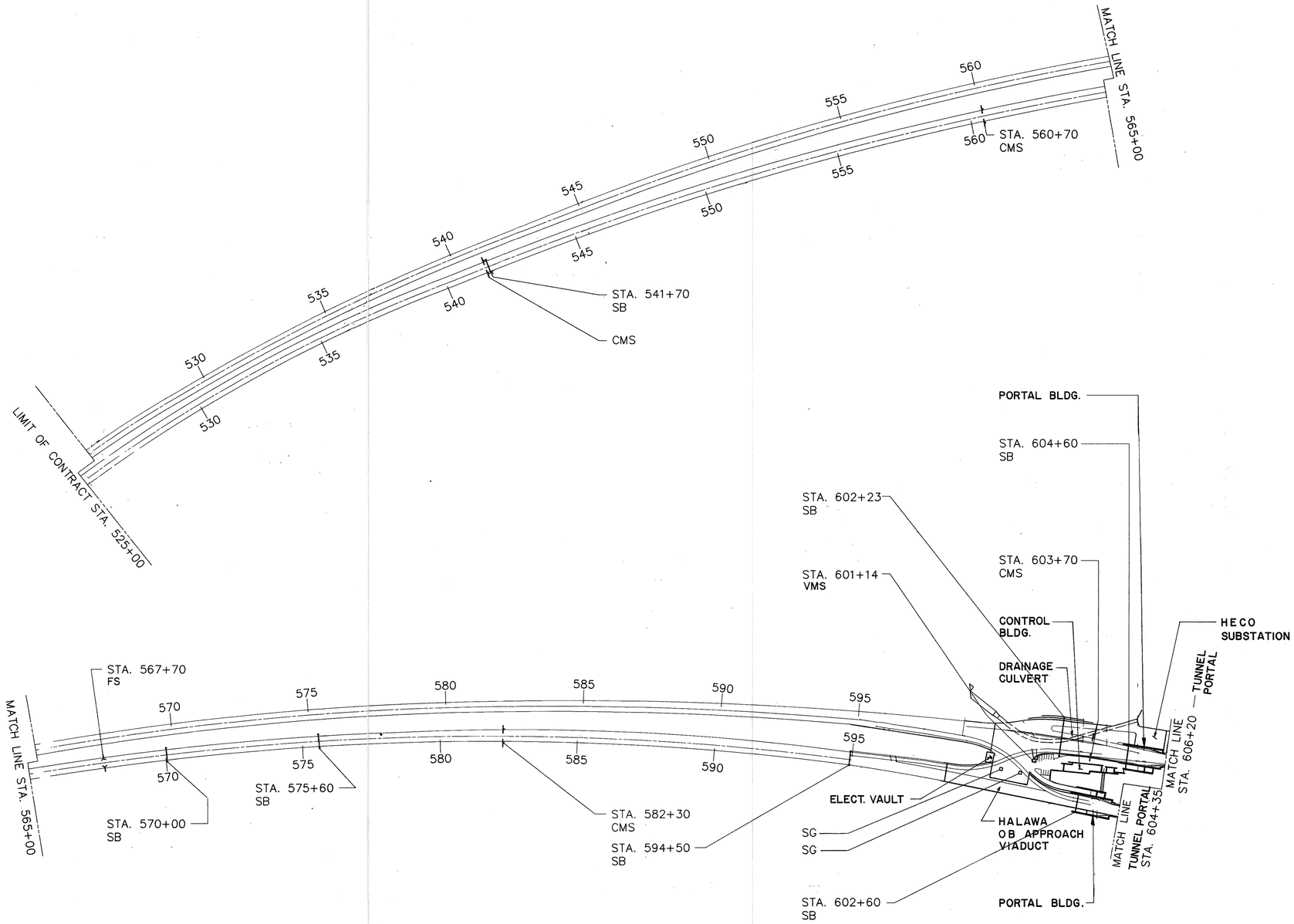
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED:	
DIVISION ADMINISTRATOR	DATE 6/22/92

DEPARTMENT OF TRANSPORTATION STATE OF HAWAII	
APPROVED:	
DIR. OF TRANSPORTATION	DATE 6/12/92

PBHA — DESIGNED BY
D. TANAKA — P. S. & E. BY
587-2124 — PHONE
JUNE 92 — DATE

SHEET NO. G1 OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(66)	1992	2	440



FOR LEGEND SEE SHT. NO. G3

HALAWA APPROACH

GRAPHIC SCALE:
200' 100' 0' 200' 400'
1" = 200'

W. LIAM H. HAMMER REGISTERED PROFESSIONAL ENGINEER No. 5720-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

William H. Hammer

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KEY PLAN – 1

GENERAL

INTERSTATE ROUTE H-3

F.A.I. PROJ. NO. I-H3-1(66)

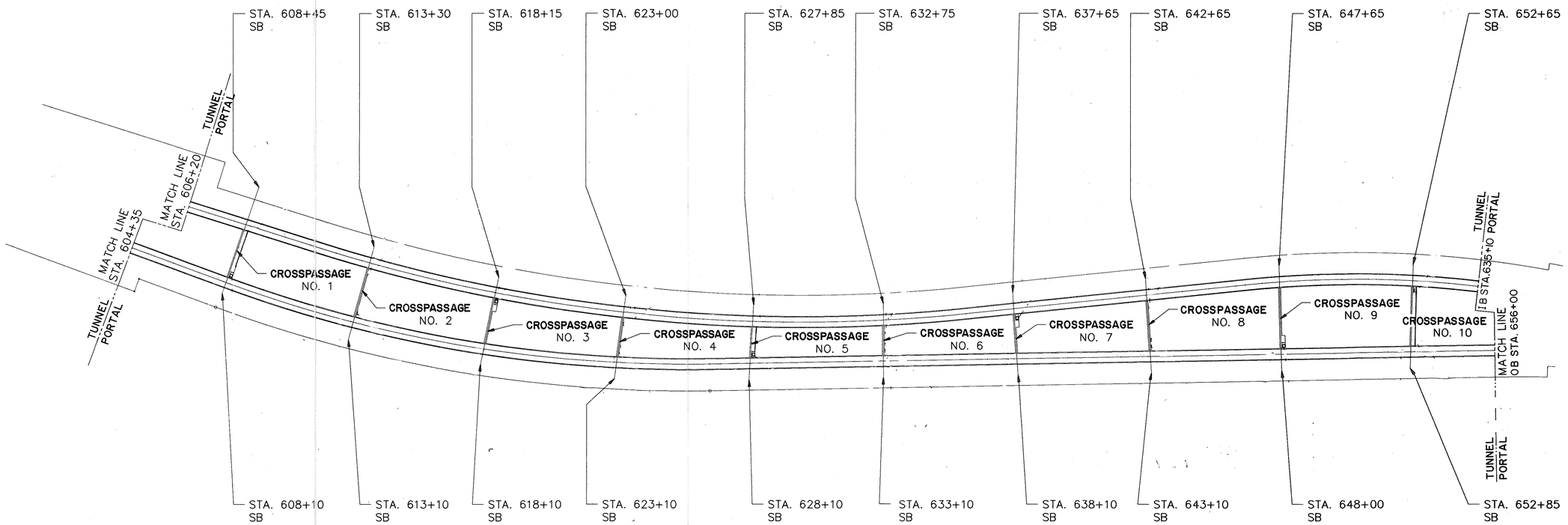
SCALE: 1" = 200'-0" DATE: APR 1992

SHEET NO. G2 OF 10 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	CADD DATE 11/5/89
	SURVEY NOTES BY	" "
	TRACED BY	" " 6/26/90
NOTEBOOK	DESIGNED BY	D.ANDERSON
	QUANTITIES BY	" " 11/10/89
No.	CHECKED BY	H.SMITH

H3-4G2 -H3\C4 -7-10-90

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(66)	1992	3	440



LEGEND

SB	SIGN BRIDGE
SG	SWING GATE
CMS	CHANGEABLE MESSAGE SIGN
FS	FIXED SIGN
VMS	VARIABLE MESSAGE SIGN

TUNNELS

GRAPHIC SCALE:
200' 100' 0' 200' 400'
1" = 200'

WILLIAM H. HANSMIRE
REGISTERED PROFESSIONAL ENGINEER
No. 5720-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

William H. Hansmire

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KEY PLAN – 2

GENERAL

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(66)

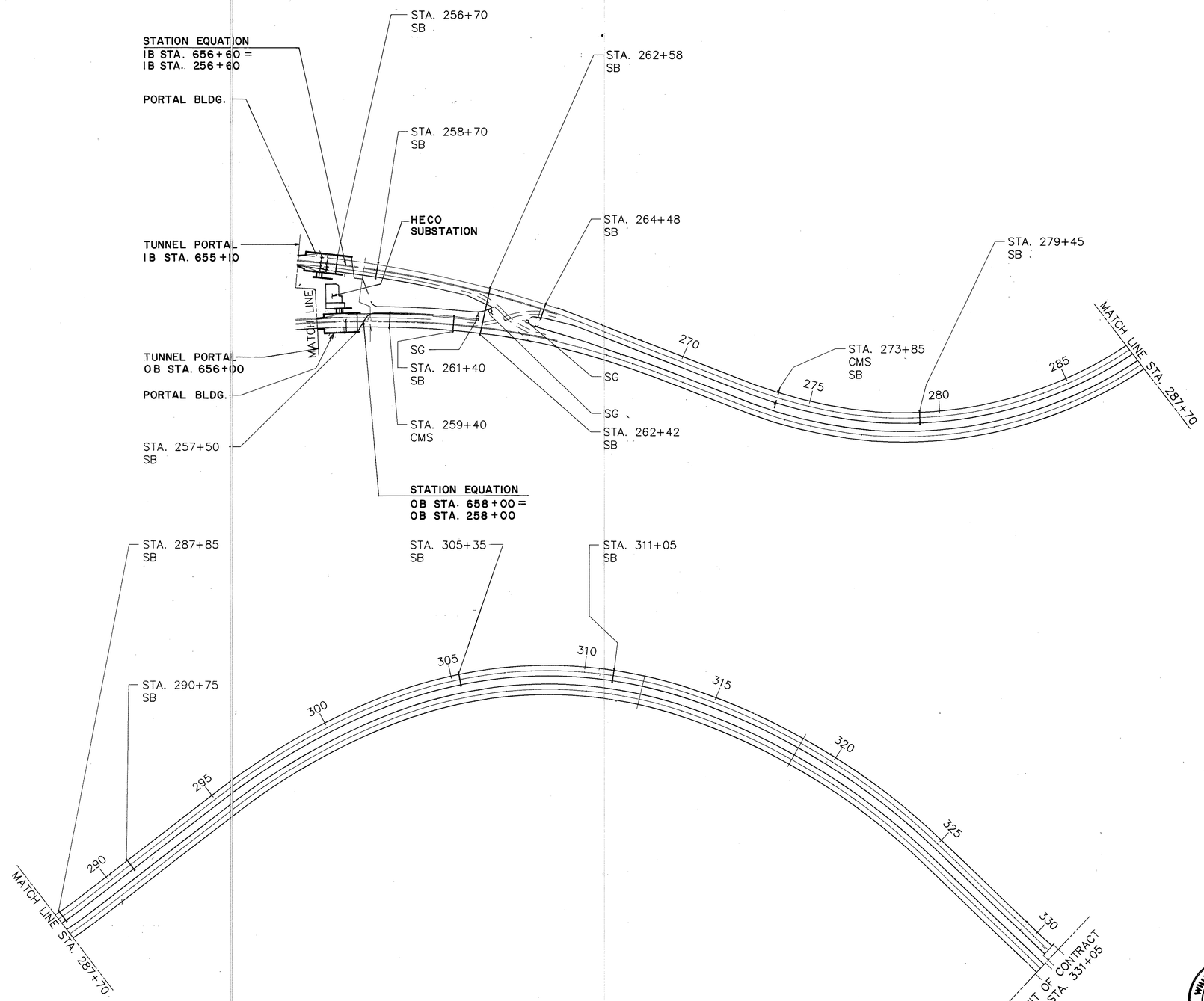
SCALE: 1" = 200'-0" DATE: APR 1992

SHEET NO. G3 OF 10 SHEETS

ORIGINAL PLAN		
	SURVEY PLOTTED BY	
	DRAWN BY CADD	DATE 11/9/89
	TRACED BY	"
NOTEBOOK	DESIGNED BY D. ANDERSON	" 6/28/89
	QUANTITIES BY	"
No.	CHECKED BY H. SMITH	" 11/10/89

H3-4G3 -H3\C4 -07-10-90

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(66)	1992	4	440



FOR LEGEND SEE SHT. NO. G3

HAIKU APPROACH

GRAPHIC SCALE:
200' 100' 0' 200' 400'
1" = 200'

WILLIAM H. HANSMIRE
REGISTERED PROFESSIONAL ENGINEER
No. 5720-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

William H. Hansmire

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KEY PLAN – 3

GENERAL

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(66)

SCALE: 1" = 200'-0" DATE: APR 1992

SHEET NO. G4 OF 10 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY CADD	11/9/89
	TRACED BY "	"
NOTEBOOK	DESIGNED BY D.ANDERSON	5/26/89
	QUANTITIES BY "	"
No.	CHECKED BY H.SMITH	11/10/89

H3-4G4 -H3\C4 -7-10-90

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(66)	1992	5	440

SHEET	SHEET NO.	TITLE

GENERAL

1	G1	TITLE SHEET
2	G2	KEY PLAN - 1
3	G3	KEY PLAN - 2
4	G4	KEY PLAN - 3
5	G5	LIST OF PLANS - 1
6	G6	LIST OF PLANS - 2
7	G7	LIST OF PLANS - 3
8	G8	STANDARD PLANS SUMMARY
9	G9	ABBREVIATIONS, LEGEND & NOTES
10	G10	MILESTONE SCHEDULE

MECHANICAL

STANDARDS

11	M1	HVAC - LEGEND, SYMB., ABBR. & GEN. NOTES
12	M2	PLUMBING - LEGEND, SYMB., ABBR. & GEN. NOTES
13	M3	HVAC EQUIPMENT SCHEDULES - 1
14	M4	HVAC EQUIPMENT SCHEDULES - 2
15	M5	HVAC EQUIPMENT SCHEDULES - 3
16	M6	HVAC EQUIPMENT SCHEDULES - 4
17	M7	MECHANICAL EQUIPMENT SCHEDULES - 1
18	M8	MECHANICAL EQUIPMENT SCHEDULES - 2
19	M9	HALAWA PORTAL BUILDINGS - HVAC AIRFLOW DIAGRAMS
20	M10	HAIKU PORTAL BUILDINGS - HVAC AIRFLOW DIAGRAMS
21	M11	CONTROL BUILDING - HVAC AIRFLOW DIAGRAM
22	M12	CROSSPASSAGES - HVAC AIRFLOW AND CONTROL DIAGRAMS
23	M13	HALAWA PORTAL BUILDINGS - HVAC CONTROL DIAGRAMS
24	M14	HAIKU PORTAL BUILDINGS - HVAC CONTROL DIAGRAMS
25	M15	CONTROL BUILDING - HVAC CONTROL DIAGRAMS
26	M16	PLUMBING - WATER BALANCE DIAGRAM
27	M17	PLUMBING - PIPING DIAGRAM
28	M18	PLUMBING - CONTROL DIAGRAMS
29	M19	EMERGENCY GENERATOR P&ID
30	M20	FIRE PROTECTION P&ID - 1
31	M21	FIRE PROTECTION P&ID - 2
32	M22	FIRE PROTECTION P&ID - 3
33	M23	HVAC - DETAILS - 1
34	M24	HVAC - DETAILS - 2
35	M25	HVAC - DETAILS - 3
36	M26	PLUMBING - DETAILS - 1
37	M27	PLUMBING - DETAILS - 2
38	M28	FIRE PROTECTION - DETAILS

HALAWA APPROACH

39	MA1	PLUMBING - DRAINAGE TRANSFER PUMP PLAN & SECTION
40	MA2	PLUMBING - WELL WATER PUMP PLAN & SECTION

HALAWA PORTAL BUILDING - IB

41	MN1	HVAC - LEVEL 1 & LEVEL 2 PARTIAL PLANS
42	MN2	HVAC - LEVEL 4 PARTIAL PLAN AND SECTION
43	MN3	HVAC - ELEVATOR EQUIPMENT ROOM PLAN AND DETAILS
44	MN4	PLUMBING - LEVEL 3 & LEVEL 4 PARTIAL PLANS
45	MN5	PLUMBING - PUMP ROOM PARTIAL PLANS & SECTION
46	MN6	PLUMBING - PARTIAL PLAN & PUMP ROOM SECTIONS
47	MN7	FIRE PROTECTION - LEVEL 2 & LEVEL 3 PARTIAL PLANS
48	MN8	FIRE PROTECTION - LEVEL 4 & ROOF PARTIAL PLANS

HALAWA PORTAL BUILDING - OB

49	MO1	HVAC - LEVEL 2 PARTIAL PLAN
50	MO2	HVAC - LEVEL 4 PARTIAL PLAN AND SECTION
51	MO3	HVAC - ELEVATOR EQUIPMENT ROOM PLAN AND DETAILS
52	MO4	PLUMBING - LEVEL 3 & LEVEL 4 PARTIAL PLANS
53	MO5	FIRE PROTECTION - LEVEL 2 & LEVEL 3 PARTIAL PLANS
54	MO6	FIRE PROTECTION - LEVEL 4 & ROOF PARTIAL PLANS

MECHANICAL (CONT.)

CONTROL BUILDING

55	MC1	HVAC - LEVEL 1 PARTIAL PLAN - 1
56	MC2	HVAC - LEVEL 1 PARTIAL PLAN - 2
57	MC3	HVAC - LEVEL 1 PARTIAL PLAN & SECTIONS
58	MC4	HVAC - LEVEL 2 PARTIAL PLAN - 1
59	MC5	HVAC - LEVEL 2 PARTIAL PLAN - 2
60	MC6	HVAC - LEVEL 2 PARTIAL PLAN - 3
61	MC7	HVAC - LEVEL 2 PARTIAL PLAN, SECTIONS & DETAILS
62	MC8	HVAC - LEVEL 3 MECHANICAL ROOM PLAN
63	MC9	HVAC - LEVEL 3 PARTIAL PLAN & SECTION
64	MC10	HVAC - EMERGENCY GENERATOR ROOF PLAN & SECTION
65	MC11	HVAC - SECTIONS & DETAIL
66	MC12	PLUMBING - LEVEL 1 PLAN
67	MC13	PLUMBING - LEVEL 2 PLANS
68	MC14	PLUMBING - LEVEL 3 & ROOF PLANS
69	MC15	PLUMBING - RISER DIAGRAMS
70	MC16	EMERGENCY GENERATOR PLAN
71	MC17	EMERGENCY GENERATOR SECTIONS & DETAILS
72	MC18	FIRE PROTECTION - LEVEL 1 & LEVEL 3 PLANS
73	MC19	FIRE PROTECTION - LEVEL 2 PLAN

TUNNELS

74	MT1	FIRE PROTECTION - VALVE STATION LOCATION PLAN
75	MT2	FIRE PROTECTION - SECTIONS & DETAILS
76	MT3	HVAC - CROSSPASSAGE PLAN

HAIKU APPROACH

77	MB1	PLUMBING - DRAINAGE TRANSFER PUMP PLAN & SECTION
78	MB2	PLUMBING - WELL WATER PUMP PLAN & SECTION

HAIKU PORTAL BUILDING - IB

79	MM1	HVAC - LEVEL A PARTIAL PLAN
80	MM2	HVAC - LEVEL 4 PARTIAL PLAN & SECTION
81	MM3	HVAC - ELEVATOR EQUIPMENT ROOMS - PLANS & DETAILS
82	MM4	PLUMBING - LEVEL 3 & LEVEL 4 PARTIAL PLANS
83	MM5	FIRE PROTECTION - LEVEL A PARTIAL PLAN
84	MM6	FIRE PROTECTION - LEVEL 2 & LEVEL 3 PARTIAL PLANS
85	MM7	FIRE PROTECTION - LEVEL 4 & ROOF PARTIAL PLANS

HAIKU PORTAL BUILDING - OB

86	MO1	HVAC - LEVEL A PARTIAL PLAN
87	MO2	HVAC - LEVEL 4 PARTIAL PLAN & SECTION
88	MO3	HVAC - ELEVATOR EQUIPMENT ROOMS - PLANS & DETAILS
89	MO4	PLUMBING - LEVEL 3 & LEVEL 4 PARTIAL PLANS
90	MO5	PLUMBING - PUMP ROOM PARTIAL PLAN & SECTION
91	MO6	PLUMBING - PUMP ROOM SECTIONS & PARTIAL PLAN
92	MO7	FIRE PROTECTION - LEVEL A PARTIAL PLAN
93	MO8	FIRE PROTECTION - LEVEL 2 & LEVEL 3 PARTIAL PLANS
94	MO9	FIRE PROTECTION - LEVEL 4 & ROOF PARTIAL PLANS

ELECTRICAL

STANDARDS

95	E1	ELECTRICAL LEGEND - 1
96	E2	ELECTRICAL LEGEND - 2
97	E3	LIGHTING FIXTURE SCHEDULE
98	E4	GROUNDING

DIAGRAMS

99	ED1	MAIN ONE LINE DIAGRAM
100	ED2	POWER FLOW DIAGRAM SWITCHING & INTERLOCKING
101	ED3	15 kV SWGR. ONE LINE HALAWA PORTAL BUILDING - IB
102	ED4	15 kV SWITCHGEAR LAYOUT HALAWA PORTAL BUILDING - IB
103	ED5	15 kV SWGR. METERING HECO REQUIREMENTS
104	ED6	15 kV SWITCHGEAR CIRCUIT BREAKER CONTROL

ELECTRICAL (CONT.)

DIAGRAMS - CONT.

105	ED7	15 kV SWITCHGEAR BUS TIE CONTROL
105S-1	ED7A	15 kV SWITCHGEAR CONTROL MODIFICATIONS
106	ED8	15 kV SWGR. ONE LINE HAIKU PORTAL BUILDING - IB
107	ED9	15 kV SWITCHGEAR LAYOUT HAIKU PORTAL BUILDING - IB
108	ED10	480V SWITCHGEAR LAYOUT HALAWA & HAIKU
109	ED11	480V SWITCHGEAR - CIRCUIT BREAKER CONTROL
110	ED12	480V SWITCHGEAR TIE BREAKER CONTROL
111	ED13	TUNNEL VENT FANS AFC LAYOUT
112	ED14	TUNNEL VENT FANS BLOCK DIAGRAM
113	ED15	TUNNEL VENT FANS SCHEMATIC DIAGRAM
114	ED16	TUNNEL VENT FANS AUXILIARY MCC
115	ED17	TUNNEL VENT FANS AUXILIARY APPARATUS
116	ED18	COMPUTER INTERFACE TERMINALS - ITC LIGHTING
117	ED19	EMERGENCY POWER ONE LINE
118	ED20	EMERGENCY POWER SCHEMATIC
119	ED21	THRESHOLD LTG. CONTROL HALAWA OB & HAIKU IB
120	ED22	LIGHTING PANEL SCHEDULES TUNNEL ENTRANCE - 1
121	ED23	LIGHTING PANEL SCHEDULES TUNNEL ENTRANCE - 2
122	ED24	TUNNEL ENTRANCE LIGHTING CIRCUIT LIST - 1
123	ED25	TUNNEL ENTRANCE LIGHTING CIRCUIT LIST - 2

HALAWA APPROACH

124	EA1	ONE LINE DIAGRAM AND PANEL SCHEDULES
124S-1	EA1A	PANEL SCHEDULES
125	EA2	GROUNDING
126	EA3	POWER & LIGHTING WIRING - 1
127	EA4	POWER & LIGHTING WIRING - 2
127S-1	EA4A	LIGHTING POLE SCHEDULE
128	EA5	ELECTRICAL VAULT LAYOUT
129	EA6	POWER WIRING UTILITY TUNNEL
130	EA7	LIGHTING WIRING UTILITY TUNNEL

HALAWA PORTAL BUILDING - IB

131	EN1	ONE LINE DIAGRAM HALAWA IB SUBSTATION
132	EN2	ONE LINE DIAGRAM 480Y/277V POWER
133	EN3	RISER DIAGRAM POWER

ORIGINAL PLANS	SURVEY PLOTTED BY	DATE
	DRAWN BY CADD	JUL 90
	TRACED BY	"
NOTE BOOK	DESIGNED BY K. CHU	JUL 90
	QUANTITIES BY	"
NO.	CHECKED BY M. LIN	JUL 90

DATE	REVISION

WILLIAM H. HANNEMANN REGISTERED PROFESSIONAL ENGINEER No. 5720-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

William H. Hannemann

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LIST OF PLANS - 1

GENERAL
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(66)

SCALE: NONE DATE: APR 1992

SHEET NO. G5 OF 10 SHEETS

BFB 2410: V156 CONTSLIST1.FGB;1 30MAR92-13.49.00

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(66)	1992	6	440

SHEET SHEET NO. TITLE

ELECTRICAL (CONT.)

HALAWA PORTAL BUILDING -IB CONT.

134 EN4 RISER DIAGRAM CONTROL
135 EN5 BLOCK DIAGRAM CONTROL
136 EN6 GROUNDING
137 EN7 POWER WIRING LEVEL 1 PLAN
138 EN8 POWER WIRING LEVEL 2 PLAN
139 EN9 POWER WIRING LEVEL 3 PLAN
140 EN10 POWER WIRING LEVEL 4 PLAN
141 EN11 POWER WIRING ROOF PLAN
142 EN12 GENERAL ARRANGEMENT 480V BUS DUCT
143 EN13 LIGHTING WIRING LEVEL 1 PLAN
144 EN14 LIGHTING WIRING LEVEL 2 PLAN
145 EN15 LIGHTING WIRING LEVEL 3 PLAN
146 EN16 LIGHTING WIRING LEVEL 4 PLAN
147 EN17 LIGHTING WIRING ROOF PLAN
148 EN18 LIGHTING & RECEPTACLES STAIR 1 & 2
149 EN19 LIGHTING & RECEPTACLES STAIR 3
150 EN20 LIGHTING PANEL SCHEDULES
151 EN21 LIGHTING INSTALLATION DETAILS - 1
152 EN22 LIGHTING INSTALLATION DETAILS - 2

HALAWA PORTAL BUILDING - OB

153 EO1 ONE LINE DIAGRAM HALAWA OB SUBSTATION
154 EO2 ONE LINE DIAGRAM 480Y/277V POWER
155 EO3 RISER DIAGRAM POWER
156 EO4 RISER DIAGRAM CONTROL
157 EO5 BLOCK DIAGRAM CONTROL
158 EO6 GROUNDING
159 EO7 POWER WIRING LEVEL 1 PLAN
160 EO8 POWER WIRING LEVEL 2 PLAN
161 EO9 POWER WIRING LEVEL 3 PLAN
162 EO10 POWER WIRING LEVEL 4 PLAN
163 EO11 POWER WIRING ROOF PLAN
164 EO12 GENERAL ARRANGEMENT 480V BUS DUCT
165 EO13 LIGHTING WIRING LEVEL 1 PLAN
166 EO14 LIGHTING WIRING LEVEL 2 PLAN
167 EO15 LIGHTING WIRING LEVEL 3 PLAN
168 EO16 LIGHTING WIRING LEVEL 4 PLAN
169 EO17 LIGHTING WIRING ROOF PLAN
170 EO18 LIGHTING & RECEPTACLES STAIR 1 & 2
171 EO19 LIGHTING & RECEPTACLES STAIR 3
172 EO20 LIGHTING PANEL SCHEDULES
173 EO21 LIGHTING INSTALLATION DETAILS - 1
174 EO22 LIGHTING INSTALLATION DETAILS - 2

CONTROL BUILDING

175 EC1 POWER WIRING LEVEL 1 PLAN
176 EC2 POWER WIRING LEVEL 2 PLAN
177 EC3 POWER WIRING LEVEL 3 PLAN
178 EC4 LIGHTING LEVEL 1 PLAN
179 EC5 LIGHTING LEVEL 2 PLAN
180 EC6 LIGHTING LEVEL 3 PLAN
181 EC7 LIGHTING PANEL SCHEDULES - 1
182 EC8 LIGHTING PANEL SCHEDULES - 2
183 EC9 POWER WIRING EMERGENCY GENERATOR

SHEET SHEET NO. TITLE

ELECTRICAL (CONT.)

TUNNELS

184 ET1 ONE LINE DIAGRAM POWER
185 ET2 CONTROL DIAGRAM - INTERIOR LIGHTING
186 ET3 GROUNDING
187 ET4 POWER WIRING PORTAL TO STA 607+50
188 ET5 POWER WIRING STA. 607+50 TO 612+40
189 ET6 POWER WIRING STA. 612+40 TO 617+30
190 ET7 POWER WIRING STA. 617+30 TO 622+20
191 ET8 POWER WIRING STA. 622+20 TO 627+10
192 ET9 POWER WIRING STA. 627+10 TO 632+00
193 ET10 POWER WIRING STA. 632+00 TO 636+90
194 ET11 POWER WIRING STA. 636+90 TO 641+80
195 ET12 POWER WIRING STA. 641+80 TO 646+70
196 ET13 POWER WIRING STA. 646+70 TO 651+60
197 ET14 POWER WIRING STA. 651+60 TO PORTAL
198 ET15 POWER WIRING CROSSPASSAGES
199 ET16 TUNNEL LIGHTING DISTRIBUTION DIAGRAM
200 ET17 LIGHTING PLAN - HALAWA PORTAL
201 ET18 LIGHTING PLAN PORTAL TO STA. 607+50
202 ET19 LIGHTING PLAN - STA. 607+50 TO 612+40
203 ET20 LIGHTING PLAN - STA. 612+40 TO 617+30
204 ET21 LIGHTING PLAN - STA. 617+30 TO 622+20
205 ET22 LIGHTING PLAN - STA. 622+20 TO 627+10
206 ET23 LIGHTING PLAN - STA. 627+10 TO 632+00
207 ET24 LIGHTING PLAN - STA. 632+00 TO 636+90
208 ET25 LIGHTING PLAN - STA. 636+90 TO 641+80
209 ET26 LIGHTING PLAN - STA. 641+80 TO 646+70
210 ET27 LIGHTING PLAN - STA. 646+70 TO 651+60
211 ET28 LIGHTING PLAN - STA. 651+60 TO PORTAL
212 ET29 LIGHTING PLAN - HAIKU PORTAL
213 ET30 LIGHTING WIRING CROSSPASSAGES
214 ET31 RECEPTACLES & PLENUM LIGHTING DETAILS
215 ET32 CROSSPASSAGE SECTION & DETAILS - 1
216 ET33 CROSSPASSAGE SECTION & DETAILS - 2
217 ET34 LUMINAIRE DETAILS
218 ET35 LUMINAIRE INSTALLATION DETAILS
219 ET36 CROSSPASSAGEWAY PANEL SCHEDULES - 1
220 ET37 CROSSPASSAGEWAY PANEL SCHEDULES - 2
221 ET38 CROSSPASSAGEWAY PANEL SCHEDULES - 3
222 ET39 CROSSPASSAGEWAY PANEL SCHEDULES - 4
223 ET40 CROSSPASSAGEWAY PANEL SCHEDULES - 5

HAIKU APPROACH

224 EB1 ONE LINE DIAGRAM AND PANEL SCHEDULE
225 EB2 GROUNDING
226 EB3 POWER & LIGHTING WIRING - 1
227 EB4 POWER & LIGHTING WIRING - 2
228 EB5 POWER & LIGHTING WIRING - 3
229 EB6 ELECTRICAL VAULT LAYOUT
230 EB7 VIADUCT POWER & LIGHTING WIRING - 1
231 EB8 VIADUCT POWER & LIGHTING WIRING - 2
232 EB9 VIADUCT POWER & LIGHTING WIRING - 3
233 EB10 VIADUCT POWER & LIGHTING WIRING - 4
234 EB11 VIADUCT POWER & LIGHTING WIRING - 5
235 EB12 VIADUCT POWER & LIGHTING WIRING - 6
236 EB13 VIADUCT POWER & LIGHTING WIRING - 7
237 EB14 VIADUCT POWER & LIGHTING WIRING - 8
238 EB15 VIADUCT POWER & LIGHTING WIRING - 9
239 EB16 VIADUCT POWER & LIGHTING WIRING - 10
240 EB17 VIADUCT POWER & LIGHTING WIRING - 11
241 EB18 VIADUCT POWER & LIGHTING WIRING - 12
242 EB19 INSTALLATION DETAILS

SHEET SHEET NO. TITLE

ELECTRICAL (CONT.)

HAIKU PORTAL BUILDING - IB

243 EM1 ONE LINE DIAGRAM HAIKU IB SUBSTATION
244 EM2 ONE LINE DIAGRAM 480Y/277V POWER
245 EM3 RISER DIAGRAM POWER
246 EM4 RISER DIAGRAM CONTROL
247 EM5 BLOCK DIAGRAM CONTROL
248 EM6 GROUNDING
249 EM7 POWER WIRING LEVEL A PLAN
250 EM8 POWER WIRING LEVEL 1 PLAN
251 EM9 POWER WIRING LEVEL 2 PLAN
252 EM10 POWER WIRING LEVEL 3 PLAN
253 EM11 POWER WIRING LEVEL 4 PLAN
254 EM12 POWER WIRING ROOF PLAN
255 EM13 GENERAL ARRANGEMENT 480V BUS DUCT
256 EM14 LIGHTING WIRING LEVEL A PLAN
257 EM15 LIGHTING WIRING LEVEL 1 PLAN
258 EM16 LIGHTING WIRING LEVEL 2 PLAN
259 EM17 LIGHTING WIRING LEVEL 3 PLAN
260 EM18 LIGHTINGS WIRING LEVEL 4 PLAN
261 EM19 LIGHTINGE WIRING ROOF PLAN
262 EM20 LIGHTING & RECEPTACLES STAIR 1
263 EM21 LIGHTING & RECEPTACLES STAIR 2
264 EM22 LIGHTING & RECEPTACLES STAIR 3 PLAN
265 EM23 LIGHTING PANEL SCHEDULES
266 EM24 LIGHTING INSTALLATION DETAILS - 1
267 EM25 LIGHTING INSTALLATION DETAILS - 2

HAIKU PORTAL BUILDING - OB

268 EO1 ONE LINE DIAGRAM HAIKU OB SUBSTATION
269 EO2 ONE LINE DIAGRAM 480Y/277V POWER
270 EO3 RISER DIAGRAM POWER
271 EO4 RISER DIAGRAM CONTROL
272 EO5 BLOCK DIAGRAM CONTROL
273 EO6 GROUNDING
274 EO7 POWER WIRING LEVEL A PLAN
275 EO8 POWER WIRING LEVEL 1 PLAN
276 EO9 POWER WIRING LEVEL 2 PLAN
277 EO10 POWER WIRING LEVEL 3 PLAN
278 EO11 POWER WIRING LEVEL 4 PLAN
279 EO12 POWER WIRING ROOF PLAN
280 EO13 GENERAL ARRANGEMENT 480V BUS DUCT
281 EO14 LIGHTING WIRING LEVEL A PLAN
282 EO15 LIGHTING WIRING LEVEL 1 PLAN
283 EO16 LIGHTING WIRING LEVEL 2 PLAN
284 EO17 LIGHTING WIRING LEVEL 3 PLAN
285 EO18 LIGHTING WIRING LEVEL 4 PLAN
286 EO19 LIGHTING WIRING ROOF PLAN
287 EO20 LIGHTING & RECEPTACLES - STAIR 1
288 EO21 LIGHTING & RECEPTACLES - STAIR 2
289 EO22 LIGHTING & RECEPTACLES - STAIR 3
290 EO23 LIGHTING PANEL SCHEDULES
291 EO24 LIGHTING INSTALLATION DETAILS - 1
292 EO25 LIGHTING INSTALLATION DETAILS - 2

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DRAWN BY CADD	JUL 90
NOTE BOOK	TRACED BY	
	DESIGNED BY K. CHU	JUL 90
NO.	QUANTITIES BY	
	CHECKED BY K. LIN	JUL 90

WILLIAM H. HANSMIRE
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No. 5720-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

William H. Hansmire

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LIST OF PLANS - 2

GENERAL
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(66)

SCALE: NONE DATE: APR 1992

SHEET NO. 66 OF 10 SHEETS

BFB 2410: V156 CONT5LIST2.FGB;1 30MAR92-14.36.00

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(66)	1992	7	440

SHEET NO. TITLE

ELECTRICAL (CONT.)

TEMPORARY POWER DEMOLITION

293 EP1 HALAWA ACCESS ROAD OVERHEAD POWER LINE DEMOLITION PLAN
294 EP2 HAIKU ACCESS ROAD OVERHEAD POWER LINE DEMOLITION PLAN

ARCHITECTURAL

STANDARDS

295 A1 ARCHITECTURAL ABBREVIATIONS
296 A2 LEGENDS AND SCHEDULES
297 A3 ROOF & MISCELLANEOUS DETAILS
298 A4 SKYLIGHT DETAILS
299 A5 ROOF ACCESS DETAILS
300 A6 DOOR AND GATE DETAILS
301 A7 SPECIAL DOOR DETAILS
302 A8 LOUVER DETAILS - 1
303 A9 LOUVER DETAILS - 2
304 A10 ELEVATOR DETAILS
305 A11 WINDOW AND STOREFRONT DETAILS
306 A12 MISCELLANEOUS INTERIOR DETAILS - 1
307 A13 MISCELLANEOUS INTERIOR DETAILS - 2
308 A14 MISCELLANEOUS INTERIOR DETAILS - 3
309 A15 MISCELLANEOUS DETAILS
309S-1 A15A HAIKU PORTAL BUILDINGS SKYLIGHT DETAILS

HALAWA PORTAL BUILDING - IB

310 AN1 LEVEL 1 PLAN
311 AN2 LEVEL 2 PLAN
312 AN3 LEVEL 3 PLAN
313 AN4 LEVEL 4 PLAN
314 AN5 ROOF LEVEL PLAN
315 AN6 ELEVATOR AND STAIRS 1 & 2
316 AN7 SECTIONS AT ELEVATOR

HALAWA PORTAL BUILDING - OB

317 AO1 LEVEL 1 PLAN
318 AO2 LEVEL 2 PLAN
319 AO3 LEVEL 3 PLAN
320 AO4 LEVEL 4 PLAN
321 AO5 ROOF LEVEL PLAN
322 AO6 ELEVATOR AND STAIRS 1 & 2
323 AO7 SECTIONS AT ELEVATOR

CONTROL BUILDING

324 AC1 PLAN - LEVEL 1
325 AC2 PLAN - LEVEL 2
326 AC3 PLAN - LEVEL 3
327 AC4 ROOF PLAN
328 AC5 WEST AND EAST ELEVATIONS AND SECTIONS
329 AC6 NORTH ELEVATIONS
330 AC7 SOUTH ELEVATIONS
331 AC8 ELEVATION LINE B AND SECTION ON LINE D
332 AC9 PARTIAL WALL ELEVATIONS
333 AC10 WALL SECTIONS - 1
334 AC11 WALL SECTIONS - 2
335 AC12 STAIRS & ELEVATOR
336 AC13 PARTIAL PLANS AND INTERIOR ELEVATIONS
337 AC14 REFLECTED CEILING PLANS
338 AC15 INTERIOR ELEVATIONS

ARCHITECTURAL (CONT.)

TUNNELS

339 AT1 CROSSPASSAGE ELEVATIONS & DETAILS
340 AT2 MISCELLANEOUS TUNNEL DETAILS - 1
341 AT3 MISCELLANEOUS TUNNEL DETAILS - 2
342 AT4 MISCELLANEOUS TUNNEL DETAILS - 3
343 AT5 MISCELLANEOUS TUNNEL DETAILS - 4

HAIKU PORTAL BUILDING - IB

344 AM1 LEVEL A PLAN
345 AM2 LEVEL 1 PLAN
346 AM3 LEVEL 2 PLAN
347 AM4 LEVEL 3 PLAN
348 AM5 LEVEL 4 PLAN
349 AM6 ROOF LEVEL PLAN
350 AM7 ELEVATOR AND STAIR 1
351 AM8 ELEVATOR AND STAIR 2
352 AM9 SECTIONS AT ELEVATOR

HAIKU PORTAL BUILDING - OB

353 AO1 LEVEL A PLAN
354 AO2 LEVEL 1 PLAN
355 AO3 LEVEL 2 PLAN
356 AO4 LEVEL 3 PLAN
357 AO5 LEVEL 4 PLAN
358 AO6 ROOF LEVEL PLAN
359 AO7 ELEVATOR AND STAIR 1
360 AO8 ELEVATOR AND STAIR 2
361 AO9 SECTIONS AT ELEVATOR

CONTROL BUILDING

362 AI1 CONTROL BLDG. LAYOUT INTERIOR FINISH PLAN
362S-1 AI1A ELECTRONIC SHOP/GARAGE EQUIPMENT PLAN
362S-2 AI1B CONTROL BLDG. LAYOUT INTERIOR SIGNS

STRUCTURAL

SUPPORT STRUCTURES

363 SS1 GENERAL NOTES
364 SS2 HALAWA APPROACH - LAYOUT PLAN
365 SS3 HAIKU APPROACH - LAYOUT PLAN 1
366 SS4 HAIKU APPROACH - LAYOUT PLAN 2
367 SS5 HAIKU APPROACH - LAYOUT PLAN 3
368 SS6 HALAWA APPROACH - SECTION 1
369 SS7 HALAWA APPROACH - SECTION 2
370 SS8 HALAWA APPROACH - SECTION 3
371 SS9 HAIKU APPROACH - SECTION 1
372 SS10 HAIKU APPROACH - SECTION 2
373 SS11 HAIKU APPROACH - SECTION 3
374 SS12 HAIKU APPROACH - SECTION 4
375 SS13 HAIKU APPROACH - SECTION 5
376 SS14 HAIKU APPROACH - SECTION 6
377 SS15 SUPPORT POST SCHEDULE
378 SS16 SUPPORT POST DETAILS - 1
379 SS17 SUPPORT POST DETAILS - 2
380 SS18 TRUSS FRAMING DETAILS

STRUCTURAL (CONT.)

SUPPORT STRUCTURES

381 SS19 TRUSS CONNECTION DETAILS - 1
382 SS20 TRUSS CONNECTION DETAILS - 2
383 SS21 TRUSS CONNECTION DETAILS - 3
384 SS22 TRUSS CONNECTION DETAILS - 4
385 SS23 FM SIGN CONNECTION DETAILS
386 SS24 VM SIGN CONNECTION DETAILS
387 SS25 HALAWA APPROACH - WALKWAY PLANS
388 SS26 HAIKU APPROACH - WALKWAY PLANS
389 SS27 WALKWAY DETAILS - 1
390 SS28 WALKWAY DETAILS - 2
391 SS29 MISCELLANEOUS DETAILS - 1
392 SS30 MISCELLANEOUS DETAILS - 2
393 SS31 MISCELLANEOUS DETAILS - 3
394 SS32 MISCELLANEOUS DETAILS - 4
395 SS33 MISCELLANEOUS DETAILS - 5
395S-1 SS33A MISCELLANEOUS DETAILS - 5A
396 SS34 MISCELLANEOUS DETAILS - 6
397 SS35 MISCELLANEOUS DETAILS - 7
398 SS36 MISCELLANEOUS DETAILS - 8

SYSTEMS

SIGNING & STRIPING

399 TX1 HALAWA CROSSOVER PLAN
400 TX2 TUNNEL PLAN -1
401 TX3 TUNNEL PLAN - 2
402 TX4 TUNNEL PLAN - 3
403 TX5 TUNNEL PLAN - 4
404 TX6 HAIKU CROSSOVER PLAN
405 TX7 HALAWA CROSSOVER DETAIL
406 TX8 HAIKU CROSSOVER DETAIL
407 TX9 STRIPING DETAILS
408 TX10 SIGNING DETAILS - 1
409 TX11 SIGNING DETAILS - 2
410 TX12 MOUNTING DETAILS

SPECIAL

HAIKU O & M FACILITY

411 PB1 SITE PLAN
412 PB2 ARCHITECTURAL STANDARD DETAILS - 1
413 PB3 ARCHITECTURAL STANDARD DETAILS - 2
414 PB4 ARCHITECTURAL LEVEL A PLAN - IB
415 PB5 ARCHITECTURAL ROOF PLAN - IB
416 PB6 ARCHITECTURAL REFLECTED CEILING PLAN - IB
417 PB7 ARCHITECTURAL SECTIONS & ELEVATIONS
418 PB8 ARCHITECTURAL LEVEL A PLAN - OB
419 PB9 ARCHITECTURAL ROOF PLAN - OB
420 PB10 ARCHITECTURAL REFLECTED CEILING PLAN - OB
421 PB11 ARCHITECTURAL SECTIONS & ELEVATIONS - OB
422 PB12 ARCHITECTURAL ENLARGED PLAN & ELEVATIONS-OB
423 PB13 ARCHITECTURAL ENLARGED ELEVATIONS
423S-1 PB13A ARCHITECTURAL EQUIPMENT PLAN IB & LEGEND
423S-2 PB13B ARCHITECTURAL EQUIPMENT & FURNISHINGS PLAN OB
424 PB14 STRUCTURAL GENERAL NOTES & STANDARD DETAILS
425 PB15 STRUCTURAL FOUNDATION PLAN & DETAILS - IB
426 PB16 STRUCTURAL ROOF FRAMING PLAN & DETAILS - IB
427 PB17 STRUCTURAL ELEVATION & WALL PANELS - IB
428 PB18 STRUCTURAL FOUNDATION PLAN & DETAILS - OB

SPECIAL (CONT.)

HAIKU O & M FACILITY (CONT.)

429 PB19 STRUCTURAL ROOF FRAMING PLAN & DETAILS - OB
430 PB20 STRUCTURAL ELEVATION & WALL PANELS - OB
431 PB21 MECHANICAL HVAC - IB
432 PB22 MECHANICAL HVAC - OB
433 PB23 MECHANICAL PLUMBING PLAN & RISER DIAGRAMS
433S-1 PB23A MECHANICAL PLUMBING PLANS
434 PB24 MECHANICAL FIRE PROTECTION PLANS - IB & OB
435 PB25 ELECTRICAL POWER & LIGHTING-IB
436 PB26 ELECTRICAL POWER PLAN - OB
437 PB27 ELECTRICAL LIGHTING, TELEPHONE AND FIRE ALARM PLANS-OB
438 PB28 ELECTRICAL PANEL SCHEDULES

HAIKU OMEGA TRANSMITTER FACILITY

439 OB1 GROUND SYSTEM MODIFICATION - 1
440 OB2 GROUND SYSTEM MODIFICATION - 2
440S-1 TO 440S-11 REFERENCE SHEETS

REFERENCE PLANS

PROJ. SHT. NO.	TOTAL SHTS.	SHT. NO.	TITLE
EXPLORATORY TUNNEL - F.A.I. PROJ. NO. I-H3-1(37)			
16	26	1	OVERHEAD POWER LINE 11.5 KV LAYOUT - HALAWA
17	26	2	OVERHEAD POWER LINE 11.5 KV LAYOUT - HALAWA
18	26	3	OVERHEAD POWER LINE 11.5 KV LAYOUT - HALAWA
19	26	4	OVERHEAD POWER LINE 11.5 KV LAYOUT - HALAWA
20	26	1	OVERHEAD POWER LINE 12.47 KV LAYOUT - HAIKU
21	26	2	OVERHEAD POWER LINE 12.47 KV LAYOUT - HAIKU
22	26	3	OVERHEAD POWER LINE 12.47 KV LAYOUT - HAIKU
23	26	4	OVERHEAD POWER LINE 12.47 KV LAYOUT - HAIKU
24	26	-	OVERHEAD POWER LINE POLE METERING DETAILS
25	26	-	OVERHEAD POWER LINE POWER LINE DETAILS
26	26	-	OVERHEAD POWER LINE SUBSTATION LAYOUT

REGISTERED PROFESSIONAL ENGINEER No. 5730-C HAWAII, U.S.A. WILLIAM H. HANAMOTO

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

William H. Hanamoto

DATE	REVISION
7/22/92	ADDENDUM 1 - ADDED SHT. NO. PB13A PB13B, PB23A & AI1A

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LIST OF PLANS - 3

GENERAL

INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(66)

SCALE: 1/8" = 1'-0" DATE: APR 1992

SHEET NO. G7 OF 10 SHEETS

ADD. 7

ORIGINAL PLAN — SURVEY PLOTTED BY CADD; DRAWN BY; TRACED BY; DESIGNED BY K. CHU; QUANTITIES BY; CHECKED BY H. LIM; DATE JUL 90
REVISED PLAN — NOTE BOOK; NO.

BFB 2410: V156 CONT5LIST3.FGB:1 12JUN92-09.05.00

STANDARD PLANS SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(66)	1992	8	440

STANDARD PLAN NO.	TITLE	DATE
B-01	Notes and Miscellaneous Details	07/01/86
B-02		
B-03 ●	Typical Structure Excavation and Backfill Pay Limits	07/01/86
B-04		
B-05		
B-06	Concrete Box Girder	07/01/86
B-07	Concrete Box Girder	07/01/86
B-08	Concrete Box Girder	07/01/86
B-09		
B-10		
B-11		
B-12	Prestressed Concrete Piles	r07/16/90
B-13	Prestressed Concrete Piles	r07/16/90

STANDARD PLAN NO.	TITLE	DATE
D-01	Chain Link Fence With Toprail	r03/06/87
D-02 ●	Chain Link Fence Without Toprail	r07/26/90
D-03	Wire Fence With Metal Posts	07/01/86
D-04	Typical Details of Curbs and/or Gutters	07/01/86
D-05	Typical Details of Reinforced Concrete Drop Driveway	07/01/86
D-06	Centerline and Reference Survey Monument	07/01/86
D-07	Street Survey Monument	07/01/86
D-08	Landscaping Shrub and Tree Planting	07/01/86
D-09	Field Office	07/01/86
D-10	Field Office	07/01/86
D-11	Project Site Laboratory	07/01/86
D-12	Project Site Laboratory	07/01/86
D-13	Field Office & Project Site Laboratory	07/01/86

STANDARD PLAN NO.	TITLE	DATE
H-01	Type A, B, C and D Catch Basin	07/01/86
H-02 ●	Type A1, B1, C1 and D1 Catch Basin	07/01/86
H-03	Type A2, B2, C2 and D2 Catch Basin	07/01/86
H-04 ●	Typical Reinforcing Details for Catch Basins	07/01/86
H-05	Type A, B and C Storm Drain Manhole	07/01/86
H-06	Type D and E Storm Drain Manhole	07/01/86
H-07 ●	Type F Storm Drain Manhole	07/01/86
H-08 ●	Catch Basin and Manhole Casting	07/01/86
H-09 ●	Type A-9 and A-9P Frames and Grates	07/01/86
H-10	Type A-9B Frames and Grates	07/01/86
H-11 ●	Type 61614 and 61214 Grated Drop Inlet	07/01/86
H-12	Type 61616 Grated Drop Inlet	07/01/86
H-13 ●	61214, 61614 & 61616 Steel Frames and Grates	07/01/86
H-14	61214B Steel Frame and Grates	07/01/86
H-15	61614B Steel Frame and Grates	07/01/86
H-16	Concrete and Cement Rubble Masonry Structures	r10/16/90
H-17	Inlet Structures	r10/16/90
H-18	Flared End Section for Culverts	07/01/86
H-19	Outlet Structures	r02/15/91
H-20	Concrete Spillway Inlet	07/01/86
H-21	18" Slotted C.M.P. Drain	07/01/86
H-22	C.M.P. Coupling Details Standard Joint	r10/16/90
H-23	Hat Shaped Coupling Band	r10/16/90

STANDARD PLAN NO.	TITLE	DATE
TE-01 ●	Miscellaneous Sign Details	07/01/86
TE-02 ●	Galvanized Flanged Channel Sign Post Mounting	07/01/86
TE-03 ●	Galvanized Square Tube Sign Post Mounting	07/01/86
TE-04 ●	Regulatory Signs	r09/01/87
TE-05 ●	Warning Signs	07/01/86
TE-06 ●	Miscellaneous Signs	r11/03/89
TE-07	Reserved	07/01/86
TE-08	Construction Signs	r09/01/87
TE-09	Miscellaneous Intersection Signs	r03/06/87
TE-10	Reserved	07/01/86
TE-11	Bike Route Sign and Supplementary Plates	07/01/86
TE-12	State Route Marker and Auxiliary Markers	07/01/86
TE-13 ●	Interstate Route Marker	07/01/86
TE-14	State Route Marker and Border Detail for Guide Signs	07/01/86
TE-15	Route Marker Assemblies	07/01/86
TE-16	Miscellaneous Reflector Markers	07/01/86
TE-17	Type II Object Markers	07/01/86
TE-18	Mileposts	07/01/86
TE-19	Reserved	07/01/86
TE-20 ●	Overhead Sign Supports	07/01/86
TE-21 ●	Overhead Sign Support, Box Truss Type, Aluminum	07/01/86
TE-22 ●	Foundation Details and Schedules	07/01/86
TE-23	Supports for Ground Mounted Guide Sign	r11/03/89
TE-24 ●	Breakaway Sign Supports for Ground Mounted Guide Signs	07/01/86
TE-25 ●	Laminated Aluminum Sign Panels (Overhead)	07/01/86
TE-26 ●	Laminated Aluminum Sign Panels (Ground Mounted)	07/01/86
TE-27 ●	Solid Aluminum Extruded Sign Panel and Accessory Details	07/01/86
TE-28	Guide Signs Luminaire Mountings	07/01/86
TE-29	Reserved	07/01/86
TE-30 ●	Raised Pavement Markers and Striping	r05/09/90
TE-31 ●	Miscellaneous Pavement Markings	r05/09/90
TE-32 ●	Miscellaneous Pavement Markings	r05/09/90
TE-33	Miscellaneous Pavement Markings	r11/03/89
TE-34	Reserved	07/01/86
TE-35	Pavement Alphabets, Numbers & Symbols	07/01/86
TE-36	Pavement Alphabets, Numbers & Symbols	07/01/86
TE-37	Reserved	07/01/86
TE-38	Traffic Signal System, Miscellaneous Details	r11/03/89
TE-39 ●	Traffic Signal System, Miscellaneous Details	07/01/86
TE-40	Loop Detectors	r11/03/89
TE-41 ●	Pullboxes	07/01/86
TE-42	Type III Traffic Signal Standard	07/01/86
TE-43	Concrete Pullbox (2' x 3')	07/01/86
TE-44	Reserved	07/01/86

STANDARD PLAN NO.	TITLE	DATE
TE-45	Reserved	07/01/86
TE-46	Reserved	07/01/86
TE-47	Reserved	07/01/86
TE-48	Reserved	07/01/86
TE-49	Reserved	07/01/86
TE-50	Metal Guardrail	r03/06/87
TE-51	Metal Guardrail	r09/01/87
TE-52	Metal Guardrail with Rubrail	r11/03/89
TE-53	Metal Guardrail with Rubrail at Obstruction	r09/01/87
TE-54	Beam Type Guardrail with Rubrail at Obstruction (Shoulder Installation)	r11/03/89
TE-55	Metal Guardrail Connection to Concrete Barrier	r11/03/89
TE-56	Concrete Barrier Transition	07/01/86
TE-57	Guardrail Type 3, Thrie Beam	r11/03/89
TE-57A	Guardrail Type 3, Modified Thrie Beam	11/03/89
TE-58	Approach End Flare, One & Two Way Roadway	07/01/86
TE-59	Trailing End Flare, One & Two Way Roadway	r11/03/89
TE-60	Anchor Block Details	07/01/86
TE-61	Breakaway Cable Terminal (BCT)	r11/03/89
TE-62	Breakaway Cable Terminal (BCT)	r09/01/87
TE-63	Guardrail Type 4 (Rigid Barrier)	r09/01/87
TE-64	Portable Concrete Barrier	r11/03/89
TE-65	Guardrail Type 4, Miscellaneous	r09/01/87
TE-66	Barricades	07/01/86
TE-67	Delineation & Pavement Markings at Bridges	07/01/86
TE-68	Wheelchair Ramps	r11/03/89
TE-69	Wheelchair Ramps	r11/03/89

NOTE:

STANDARD PLANS APPLICABLE TO THIS PROJECT ARE INDICATED BY A " ● " NEXT TO THE STANDARD PLAN NO. (D-07 ●)

DATE	REVISION
02/15/91	REVISED STANDARD PLANS H-19
10/16/90	REVISED STANDARD PLANS H-16,H-17, H-22 & H-23.
07/26/90	REVISED STANDARD PLANS D-02.
07/16/90	REVISED STANDARD PLANS B-12,B-13,
05/09/90	REVISED STANDARD PLANS TE-30,TE-31, & TE-32.
11/03/89	REVISED STANDARD PLANS TE-06,TE-23, TE-30, TE-31, TE-32, TE-33, TE-38, TE-40, TE-52, TE-54, TE-55, TE-57, TE-59, TE-61, TE-64, TE-68 & TE-69. ADDED TE-57A TO STANDARD PLANS
09/01/87	REVISED STANDARD PLANS TE-04,TE-06, TE-08, TE-32, TE-51, TE-53, TE-54, TE-55, TE-57, TE-59, TE-62, TE-63, TE-65 & TE-69.
03/06/87	REVISED STANDARD PLANS D-01, TE-09, TE-40, TE-50, TE-51, TE-57, TE-59, TE-61, TE-63 & TE-64.

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THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

William H. Hansmire

DATE	REVISION
7/22/92	Revised sheet to 2/15/91 version of Std. Plans. Indicated TE-13 and deleted TE-14.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD PLANS SUMMARY

GENERAL

INTERSTATE ROUTE H-3
F.A.I. PROJECT NO. I-H3-1(66)

SCALE: NONE DATE: APR. 1992

SHEET No. G8 OF 10 SHEETS

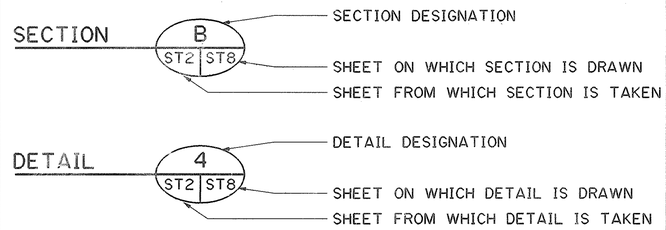
ORIGINAL PLAN	SURVEY PLOTTED BY: P. FUJII DATE 7/20/92
	DRAWN BY:
	TRACED BY:
NOTEBOOK	DESIGNED BY:
	QUANTITIES BY:
No.	CHECKED BY: K. WONG 7/20/92

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(66)	1992	9	440

ABBREVIATIONS

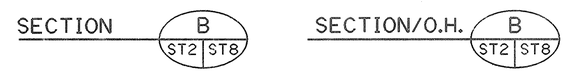
ALT.	ALTERNATE
ARCH.	ARCHITECTURAL
A.C., AC	ASPHALT CONCRETE
A.I.S.I.	AMERICAN IRON AND STEEL INSTITUTE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIAL
AZ.	AZIMUTH
BEG.	BEGIN
BK.	BACK
BOT., BOTT.	BOTTOM
B.O.F.	BOTTOM OF FOOTING
BULKHD.	BULKHEAD
C.B.	CATCH BASIN
CRM	CEMENT RUBBLE MASONRY
℄	CENTERLINE
C.J.	CONSTRUCTION JOINT
CL.	CLASS
CONC.	CONCRETE
COND.	CONDUIT
CMP	CORRUGATED METAL PIPE
CF	CUBIC FEET
CULV.	CULVERT
DET.	DETAIL
D, DIA., Ø	DIAMETER
DIM.	DIMENSION
E	EAST
EA.	EACH
EASMT.	EASEMENT
E.P.	EDGE OF PAVEMENT
EL, ELEV.	ELEVATION
ELEC.	ELECTRICAL
EMB.	EMBANKMENT
ENG., ENGR.	ENGINEER
EQ.	EQUAL
EXT.	EXTERIOR
F.A.I.	FEDERAL AID INTERSTATE
FT., '	FEET, FOOT
FH	FIRE HYDRANT
FW	FIRE WATER LINE
FWY.	FREEWAY
GALV.	GALVANIZED
GSP	GALVANIZED STEEL PIPE
GA.	GAUGE, GAGE
GCL	GRADE CONTROL LINE
HECO	HAWAII ELECTRIC COMPANY
HT.	HEIGHT
H.P.	HIGH POINT
HWY.	HIGHWAY
HOR., HORIZ.	HORIZONTAL
HVB	HAIKU VALLEY BRIDGE
IB	INBOUND
IN., "	INCH
INT.	INTERIOR
INV.	INVERT
L.	LENGTH
LF	LINEAR FOOT
LG	LONG
LIN.	LINEAR
LT.	LEFT
LTG.	LIGHTING
MAT'L	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MH	MANHOLE
M.L.	MATCH LINE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MSL	MEAN SEA LEVEL
N	NORTH
NIC	NOT IN CONTRACT
NO., #	NUMBER
NTP	NOTICE TO PROCEED
NTS	NOT TO SCALE
OB	OUTBOUND
O.C.	ON CENTER
O.H.	OPPOSITE HAND
O/H	OVERHEAD
O/S	OFFSET
OPN'G.	OPENING
PAVT.	PAVEMENT
PERF.	PERFORATED
PC	POINT OF CURVATURE, PRECAST
PCC	POINT OF COMPOUND CURVATURE PORTLAND CEMENT CONCRETE
PB	PULLBOX
PL., ℙ	PLATE
PROJ.	PROJECT
PT.	POINT
PVC	POLYVINYL CHLORIDE
R	RADIUS
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
RD.	ROAD
REF.	REFERENCE
REINF.	REINFORCING
REQ., REQ'D.	REQUIRED
RGS	RIGID GALVANIZED STEEL
RN	REFERENCE NORTH
RT.	RIGHT
R/W	RIGHT OF WAY
S	SOUTH
SECT.	SECTION
SF	SQUARE FEET
SIM.	SIMILAR
SHT.	SHEET
SPC.	SPACING
STA.	STATION
STD.	STANDARD
SY	SQUARE YARDS
SYM.	SYMMETRICAL
T&B	TOP AND BOTTOM
T.O.C.	TOP OF CONCRETE
THK.	THICK
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
V	VALVE
VAR.	VARIABLE, VARIES
VENT.	VENTILATION
VERT.	VERTICAL
W.	WALL
W	WEST
W.P.	WORK POINT
WSP	WET STAND PIPE
WWV	WINDWARD VIADUCT

LEGEND



AS SHOWN

OPPOSITE HAND



EL. 812.00 DENOTES THE ELEVATION WITH RESPECT TO DATUM AT MSL

[868.00] DENOTES BOTTOM OF FOUNDATION ELEVATION WITH RESPECT TO DATUM AT MSL.

(36) DENOTES F.A.I. PROJ. NO. I-H3-1(36)
HAIKU ACCESS ROAD PORTAL DRAINAGE DETAILS

(37) DENOTES F.A.I. PROJ. NO. I-H3-1(37)
TRANS-KOOLAU EXPLORATORY TUNNEL

(52) DENOTES F.A.I. PROJ. NO. I-H3-1(52)
HAIKU VALLEY BRIDGES

(57 & 58) DENOTES F.A.I. PROJ. NO. I-H3-1(57 & 58)
WINDWARD VIADUCT

(60) DENOTES F.A.I. PROJ. NO. I-H3-1(60)
FURNISHING AND INSTALLATION OF VENTILATION FANS

(61) DENOTES F.A.I. PROJ. NO. I-H3-1(61)
HAIKU APPROACH AND TUNNELS

(64) DENOTES F.A.I. PROJ. NO. I-H3-1(64)
HALAWA APPROACH AND TUNNELS

(65) DENOTES F.A.I. PROJ. NO. I-H3-1(65)
FURNISHING AND INSTALLING SYSTEM COMPONENTS

(66) DENOTES F.A.I. PROJ. NO. I-H3-1(66)
MECHANICAL, ELECTRICAL AND ARCHITECTURAL FINISH

(71) DENOTES F.A.I. PROJ. NO. I-H3-1(71)
NORTH HALAWA VALLEY VIADUCT

NOTES:

1. THE ABBREVIATIONS ON THIS PLAN APPLY TO ALL PLANS, UNLESS NOTED OTHERWISE ON THE DISCIPLINE ABBREVIATION PLANS.

2. REFERENCE PLAN CALL OUT EXAMPLE: SHT. NO. H6(52) DENOTES SHEET NO. H6 OF F.A.J. PROJ. NO. I-H3-1(52) HAIKU VALLEY BRIDGES.

ORIGINAL PLAN		
NOTE BOOK	SURVEY PLOTTED BY	DATE
	DRAWN BY CADD	7/89
	TRACED BY	
	DESIGNED BY M. S. OWYANG	7/89
	QUANTITIES BY	
NO.	CHECKED BY M. LIN	7/89

WILLIAM H. HANSMIRE
REGISTERED PROFESSIONAL ENGINEER
No. 5720-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ABBREVIATIONS
LEGEND & NOTES
GENERAL
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1(66)

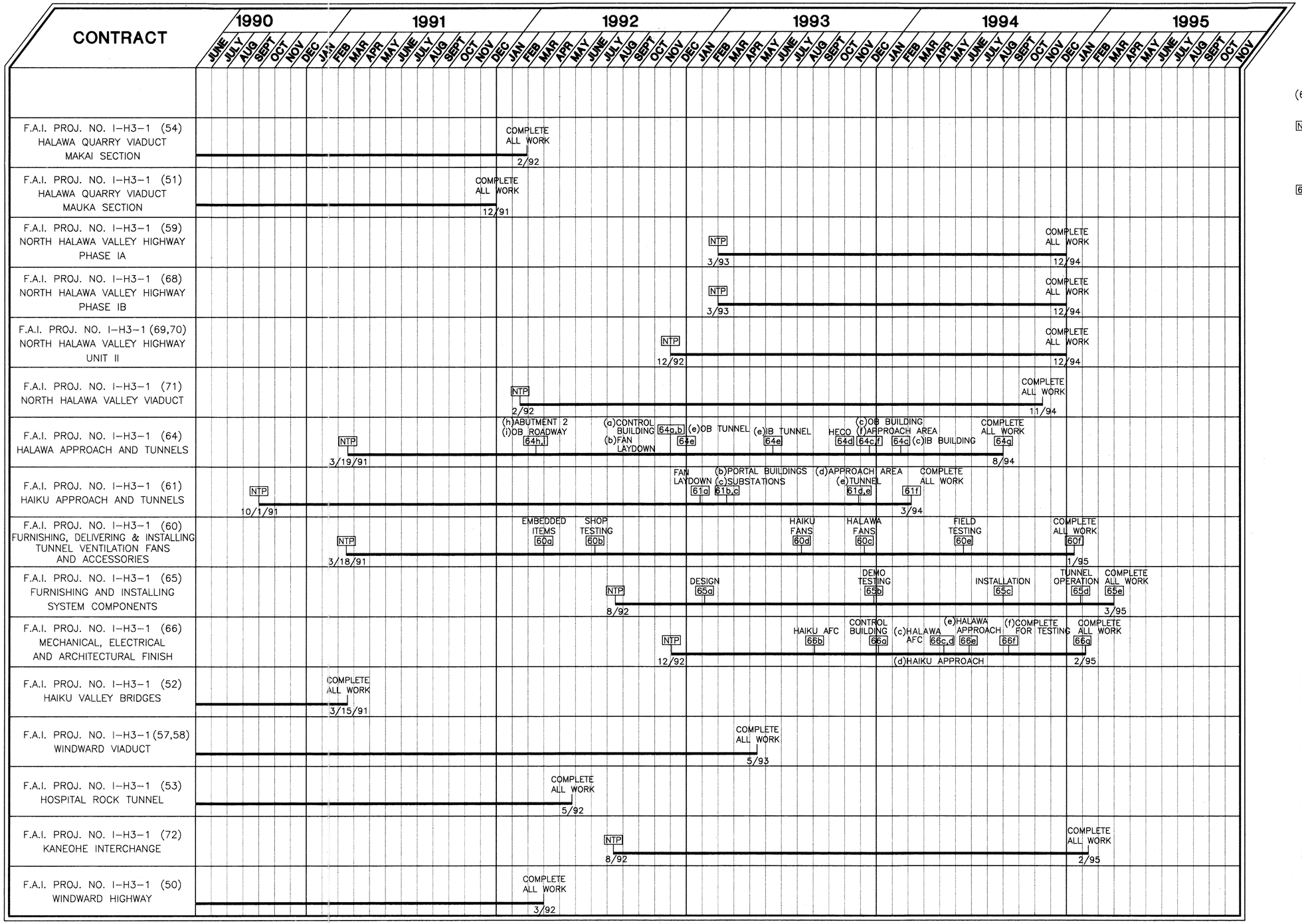
SCALE: NONE DATE: APR 1992

SHEET NO. G9 OF 10 SHEETS

2410Y103 2410: V103 SS0236.FGB11 24JAN90-1..19.50

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(66)	1992	10	440

MILESTONE SCHEDULE



LEGEND

(60) : F.A.I. PROJ. NO. (60)

NTP : NOTICE TO PROCEED
5/92 INDICATES PROJECTED DATE
3/18/91 INDICATES ACTUAL OR CURRENT CONTRACT MILESTONE DATE

61a : ACTIVITY NO.
(SEE PROPOSAL FORM)

WILLIAM H. HANSMIRE
REGISTERED PROFESSIONAL ENGINEER
No. 5720-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MILESTONE SCHEDULE
GENERAL
INTERSTATE ROUTE H-3
F.A.I. PROJ. NO. I-H3-1 (66)

SCALE: NONE DATE: JUN 1992
SHEET NO. G10 OF 10 SHEETS

ORIGINAL PLAN
SURVEY PLOTTED BY CADD DATE 5/28/92
SURVEY CHECKED BY
TRACED BY
DESIGNED BY D. ANDERSON / R.ARATANI 4/8/92
NOTEBOOK
QUANTITIES BY
CHECKED BY W. H. HANSMIRE 5/28/92
No.

MS-66 5/28/92