FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT I	1996	350	405

ABBREVIATIONS

COMM	Communications
CMB	Comcrete Median Barrier
DA (XX)	Detector Amplifier
DIA	Diameter
GND	Electrical Ground
CS	Electrical Service Panel
ECG (XX)	Emergency Crossover Gate
ECGC (XX)	Emergency Crossover Gate Controller
ETIB (XX)	Emergency Telephone Inbound
ETOB (XX)	Emergency Telephone Outbound
FO HUB (XX)	Fiber Optic Hub
GRS	Galvanized Ridgid Steel
(XX) MM	Multimode Fiberoptic Cable
NEMA	National Electrical Manufacturers Association
PR	Pair
PLC	Programmable Logic Controller
RECPT	Receptacle
SL	Street Lighting
TV (XX)	Television Controller
TC (XX)	Traffic Controller
KVA	1,000 Volt Amps
W/SHLD	With Shield

SYMBOLS

- Advance Warning Sign
- XX — Conduit/Cable Note
- XX — Construction Note
- Emergency Crossover Gate
- Emergency Crossover Gate Controller
- Existing Electrical Service
- Existing Fiberoptic Hub
- Existing Pullbox
- Existing Traffic Controller

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

CAD by G.D. TRIONG, 55-52

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LICENSED PROFESSIONAL ENGINEER
No. 8561-C
HAWAII, U.S.A.

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HIGHWAYS DIVISION

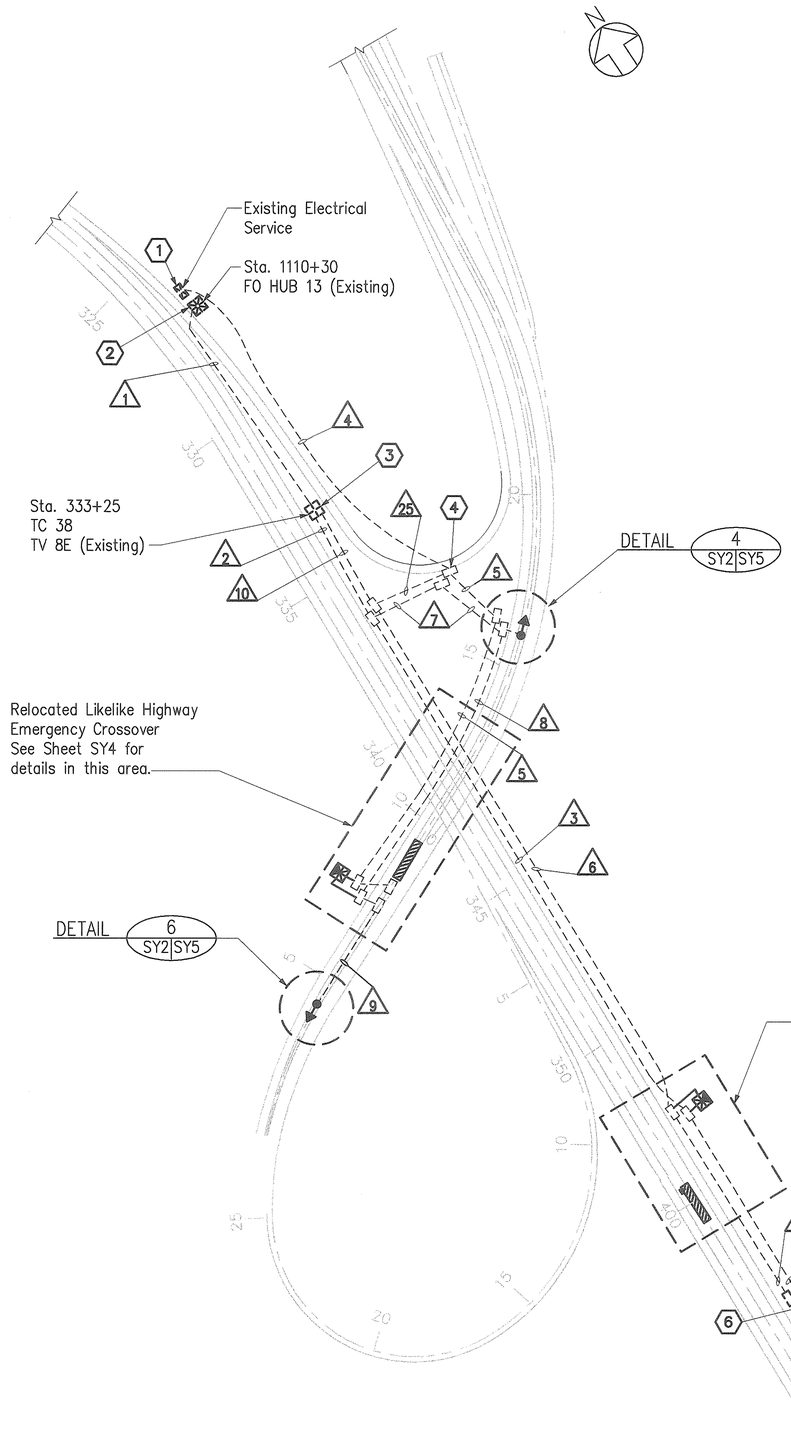
SYSTEMS LEGEND AND ABBREVIATION

INTERSTATE ROUTE H-3
FAIP NO. I-H3-1(75), UNIT I

SCALE: NONE DATE: JANUARY 1996

SHEET NO. SY1 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT I	1996	351	405



CONDUIT / CABLE SCHEDULE

RUN NO.	CONDUIT NEW	CONDUIT EXISTING	CABLE / CONDUCTOR	USED FOR	REMARKS
1		2"	1-24mm (Existing)	Data/Comm.	Use 2 Fiber for ECGC 02 & 03
2		2"	1-12mm (Existing)	Data/Control	Use 2 Fiber for ECGC 03
			1-4mm	Data/Control	Use 2 Fiber for ECGC 02
3		3"	1-12mm (Existing)	Data/Control	Use 2 Fiber for ECGC 03
4		3"	3-#2 & GND	Power	480V Power to ECG 02 & 03
			3-#2 & GND (Existing)	Power	480V Power to TC 38, 39 & 40
5		2"	3-#2 & GND	Power	480V Power to ECG 02
6		3"	3-#2 & GND (Existing)	Power	480V Power to TC 39 & 40.
			3-#2 & GND	Power	480V Power to ECG 03
7		4"	1-4mm	Data/Control	Use 2 Fiber for ECGC 02
8		4"	1-4mm	Data/Control	Use 2 Fiber for ECGC 02
			3-#8 & GND	Signals	120V Power, ECG 02 Beacon
9		2"	3-#8 & GND	Signals	120V Power, ECG 02 Beacon
10		2"	2-#6 & GND	Power	480V Power to TC 38
19		3"	1-12mm (Existing)	Data/Comm.	Use 2 Fiber for ECGC 03
			1-4mm	Data/Control	Use 2 Fiber for ECGC 03
20		3"	3-#2 & GND (Existing)	Power	480V Power to TC 39 & 40.
25		3"	3-#2 & GND (Existing)	Power	480V Power to TC 38,39 & 40.
			3-#2 & GND	Power	480V Power to ECG 03

CONSTRUCTION NOTES

(1) Install wiring from conduit run #4 into existing panel CS and connect to "Future TC" breaker as indicated on Panel Schedule shown on Sheet E-6.

(2) Install, coil and store 5 feet of fiberoptic cable into existing fiberoptic hub FO 13. Seal end of cable from moisture and leakage of water blocking material. Fiber terminations to be done by others.

(3) Install, coil and store 5 feet of 1-4mm fiberoptic cable from ECGC 02 into existing TV 8E cabinet. Seal end of cable from moisture and leakage of water blocking material. Fiber terminations to be done by others.

(4) Provide splices in power feeder conductors for 480V power to ECG 02 & 03.

(5) Install, coil and store 5 feet of 1-4mm fiberoptic cable from ECGC 03 into existing splice cabinet. Seal end of cable from moisture and leakage of water blocking material. Fiber terminations to be done by others.

(6) Terminate 480V power feeder conductors in existing electrical pullbox adjacent to TC 39. Provide minimum 10 feet of slack in conductors and seal ends against moisture.

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

CAD by J. MIMURA, 55-52

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS
EMERGENCY CROSSOVER
KANEOHE INTERCHANGE

INTERSTATE ROUTE H-3
FAIP NO. I-H3-1(75), UNIT I

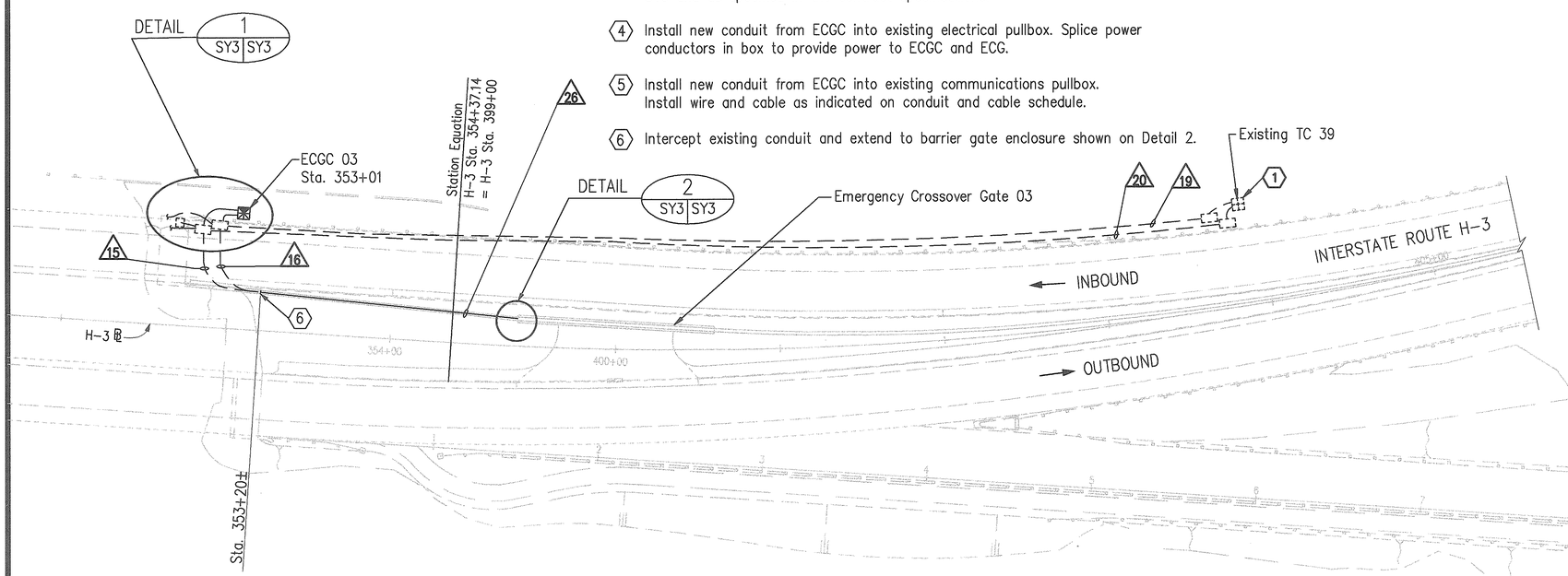
SCALE: 1" = 200' DATE: JANUARY 1996

SHEET NO. SY2 OF 9 SHEETS

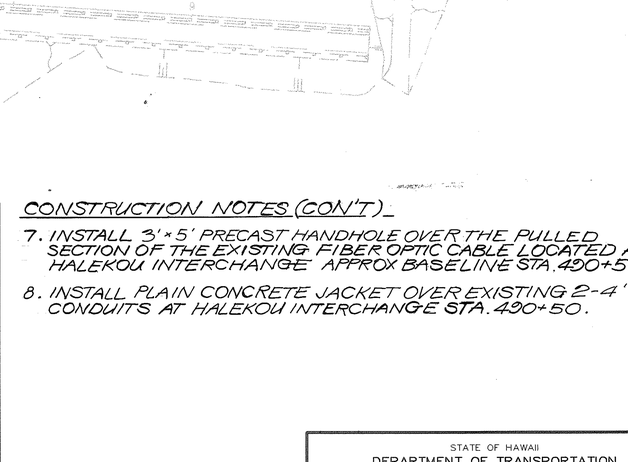
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT I	1996	352	405

CONSTRUCTION NOTES

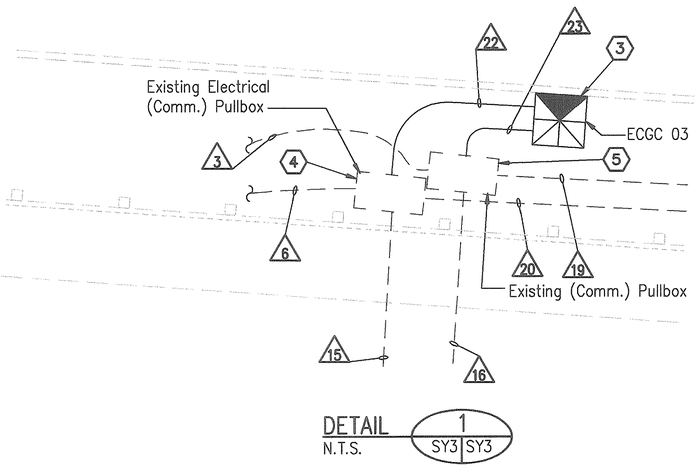
1. Install 1-4mm fiber cable from ECGC-03 into existing cabinet at TC 39. Connect 2 fiber of cable to spare fiberoptic modem in cabinet. Seal ends of unterminated cable to prevent leakage of waterblocking material.
2. Contractor to install NEMA 4X junction boxes for conductor splicing. Coordinate box size with ECG manufacturer. Provide minimum 10 feet of slack in conductors and seal ends against moisture. Secure conductors out of traveled way.
3. Install ECGC foundation, cabinet and associated equipment as detailed on sheet SY6 and as specified in the contract specifications.
4. Install new conduit from ECGC into existing electrical pullbox. Splice power conductors in box to provide power to ECGC and ECG.
5. Install new conduit from ECGC into existing communications pullbox. Install wire and cable as indicated on conduit and cable schedule.
6. Intercept existing conduit and extend to barrier gate enclosure shown on Detail 2.



PLAN
SCALE : 1" = 40'



DETAIL 2 SY3|SY3
N.T.S.



DETAIL 1 SY3|SY3
N.T.S.

ECGC 03
STA. 353+01

CONDUIT / CABLE SCHEDULE					
RUN NO.	CONDUIT NEW	CONDUIT EXISTING	CABLE / CONDUCTOR	USED FOR	REMARKS
3		3"	1-12mm (Existing)	Data/Control	Use 2 Fiber for ECGC 03
6		3"	3-#2 & GND	Power	480V Power to TC 39
			3-#2 & GND	Power	480V Power to ECGC 03
15		1"	3-#6 & GND	Power	480V Power to ECG 03
16		1"	1-6 pr #18 w/shld	Control	PLC Control to ECG 03
19		3"	1-12mm (Existing)	Data/Comm	Use 2 Fiber for ECGC 03
			1-4mm	Data/Control	Use 2 Fiber for ECGC 03
20		3"	3-#2 & GND (Existing)	Power	480V Power to TC 39 & 40
22	1-½"		3-#6 & GND	Power	480V Power to ECGC 03
23	1-½"		1-4mm	Data/Control	Use 2 Fiber for ECGC 03
			1-6 pr #18 w/shld	Control	PLC Control to ECG 03
26	2-1"		3-#6 & GND	Power	480V Power to ECG 03
			1-6 pr #18 w/shld	Control	PLC Control to ECG 03

CONSTRUCTION NOTES (CON'T)

7. INSTALL 3'×5' PRECAST HANDHOLE OVER THE PULLED SECTION OF THE EXISTING FIBER OPTIC CABLE LOCATED AT HALEKOU INTERCHANGE APPROX BASELINE STA. 490+50.
8. INSTALL PLAIN CONCRETE JACKET OVER EXISTING 2-4" CONDUITS AT HALEKOU INTERCHANGE STA. 490+50.

GLEN J. FROMM
LICENSED PROFESSIONAL ENGINEER
No. 8561-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS
EMERGENCY CROSSOVER
WINDWARD HIGHWAY

INTERSTATE ROUTE H-3
FAIP NO. I-H3-1(75), UNIT I

SCALE: AS SHOWN DATE: JANUARY 1996

SHEET NO. SY3 OF 9 SHEETS

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

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"AS-BUILT"

352

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT I	1996	353	405

N

NOTES :

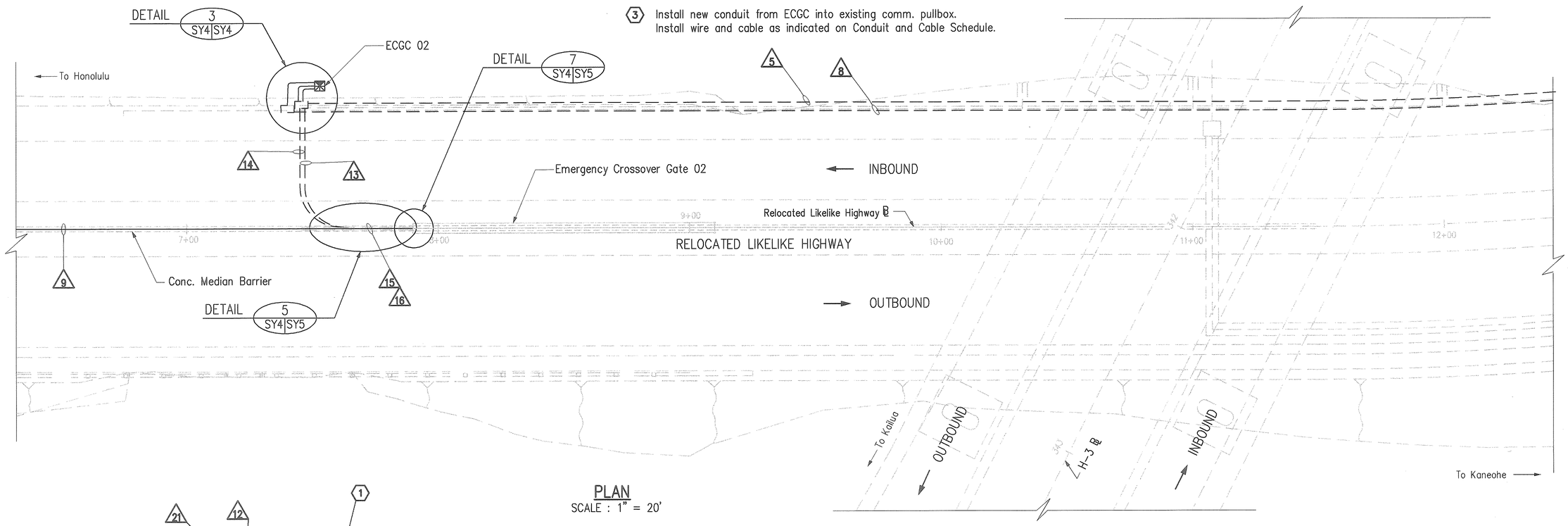
1. See Sheet SY5 for Advance Warning Sign conduit and cable installation detail.
2. See Sheet SY6 for Advance Warning Sign Detail.

CONSTRUCTION NOTES :

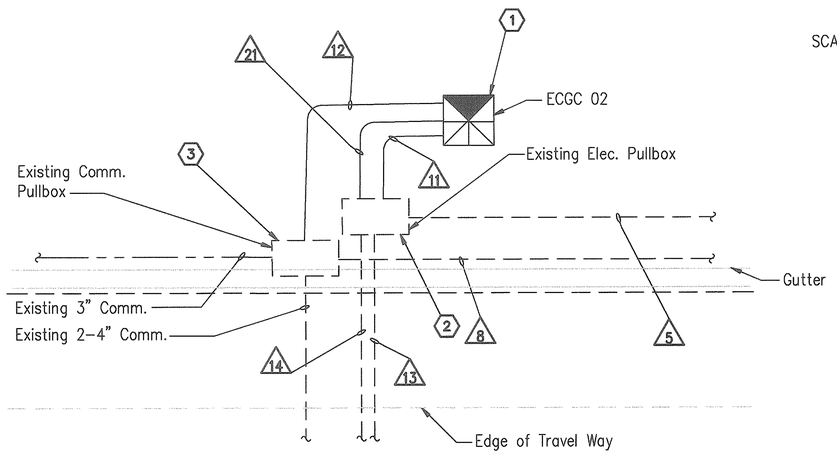
(1) Install ECGC foundation, cabinet and associated equipment as detailed on Sheet SY6 and as specified in the contract specifications.

(2) Install new conduit from ECGC into existing electrical pullbox. Splice power conductors in box to provide power to ECGC and ECG. Install non-conductive barrier to separate 480V from 120V circuits.

(3) Install new conduit from ECGC into existing comm. pullbox. Install wire and cable as indicated on Conduit and Cable Schedule.



PLAN
SCALE : 1" = 20'



DETAIL 3 SY4|SY4
Scale : 1" = 4'

ECGC 02
STA. 7+40

CONDUIT / CABLE SCHEDULE					
RUN NO.	CONDUIT NEW	CONDUIT EXISTING	CABLE / CONDUCTOR	USED FOR	REMARKS
5		2"	3-#2 & GND	Power	480V Power to ECG 02
8		4"	1-4mm	Data/Control	Use 2 Fiber for ECGC 02
			3-#8 & GND	Signals	120V Power, ECG 02 Beacon
9		2"	3-#8 & GND	Signals	120V Power, ECG 02 Beacon
11	1½"		3-#6 & GND	Power	480V Power to ECG 02
12	1½"		1-4mm	Data/Control	Use 2 Fiber for ECGC 02
			3-#8 & GND	Signals	120V Power, ECG 02 Beacon
13		2"	3-#6 & GND	Power	480V Power to Gate.
14		2"	1-6 pr #18 w/shld	Control	PLC Control to ECG 02
			3-#8 & GND	Signals	120V Power, ECG 02 Beacon
15		1"	3-#6 & GND	Power	480V Power to Gate.
16		1"	1-6 pr #18 w/shld	Control	PLC Control to ECG 02
21	1½"		1-6 pr #18 w/shld	Control	PLC Control to ECG 02
			3-#8 & GND	Signals	120V Power, ECG 02 Beacon

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

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HIGHWAYS DIVISION

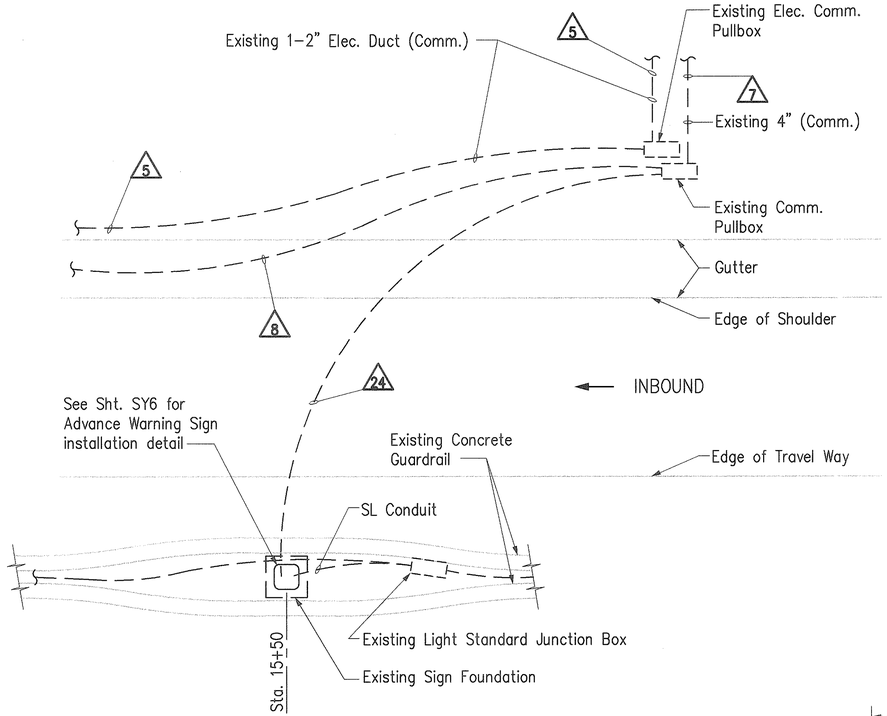
SYSTEMS
EMERGENCY CROSSOVER
RELOCATED LIKELIKE HIGHWAY

INTERSTATE ROUTE H-3
FAIP NO. I-H3-1(75), UNIT I

SCALE: AS SHOWN DATE: JANUARY 1996

SHEET NO. SY4 OF 9 SHEETS

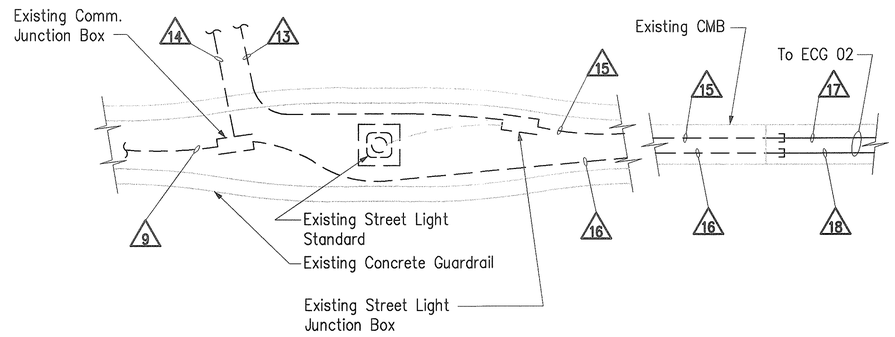
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT I	1996	354	405



DETAIL 4 (SY2 | SY5) N.T.S.

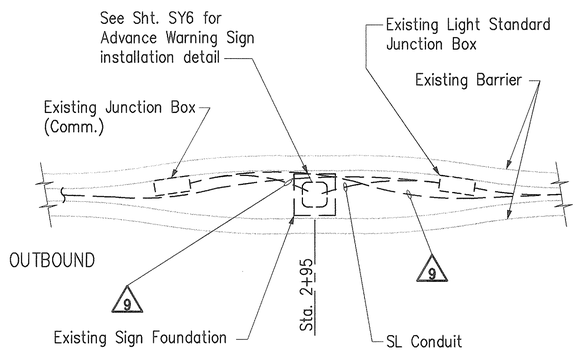
ADVANCE WARNING SIGN, STA. 15+50

CONDUIT / CABLE SCHEDULE					
RUN NO.	CONDUIT NEW	CONDUIT EXISTING	CABLE / CONDUCTOR	USED FOR	REMARKS
5		2"	3-#2 & GND	Power	480V Power to ECGC 02
7		4"	1-4mm	Data/Control	Use 2 Fiber for ECGC 02
8		4"	1-4mm	Data/Control	Use 2 Fiber for ECGC 02
			3-#8 & GND	Signals	120V Power ECG 02 Beacon
9		2"	3-#8 & GND	Signals	120V Power ECG 02 Beacon
13		2"	3-#6 & GND	Power	480V Power to ECG 02
14		2"	1-6 pr #18 w/shld	Control	PCC Control to ECG 02
			3-#8 & GND	Signals	120V Power ECG 02 Beacon
15		1"	3-#6 & GND	Power	480V Power to ECGC 02
16		1"	1-6 pr #18 w/shld	Control	PCC Control to ECG 02
17	1"		3-#6 & GND	Power	480V Power to ECGC 02
18	1"		1-6 pr #18 w/shld	Control	PCC Control to ECG 02
24		2"	3-#8 & GND	Signals	120V Power to Beacon



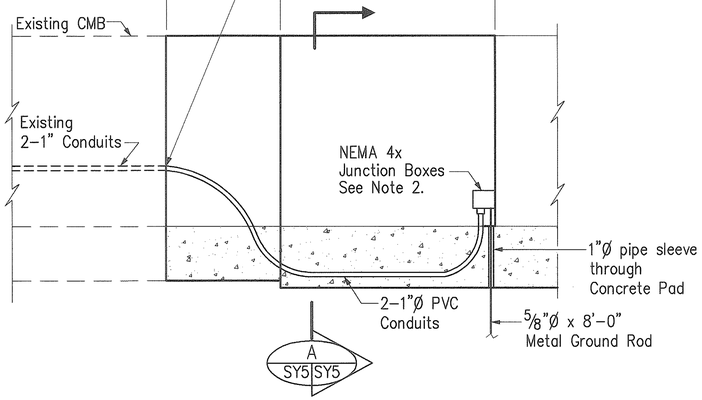
DETAIL 5 (SY4 | SY5) N.T.S.

ECG 02 CONDUIT CROSSING



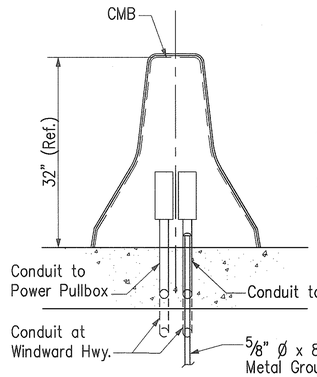
DETAIL 6 (SY2 | SY5) N.T.S.

ADVANCE WARNING SIGN, STA. 2+95



DETAIL 7 (SY4 | SY5) N.T.S.

GATE END CONNECTION



SECTION A (SY3, SY5 | SY5) N.T.S.

NOTE:

1. Contractor shall verify exact location of conduit entrance into gate enclosure with gate supplier.
2. Contractor to install NEMA 4X junction boxes for conductor splicing. Coordinate with ECG manufacturer to determine JB size. Provide minimum 10 feet of slack in conductors and seal ends against moisture. Secure conductors out of out of traveled way.

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS
EMERGENCY CROSSOVER RELOCATED LIKELIKE HIGHWAY

INTERSTATE ROUTE H-3
FAIP NO. I-H3-1(75), UNIT I

SCALE: AS SHOWN DATE: JANUARY 1996

SHEET NO. SY5 OF 9 SHEETS

354

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

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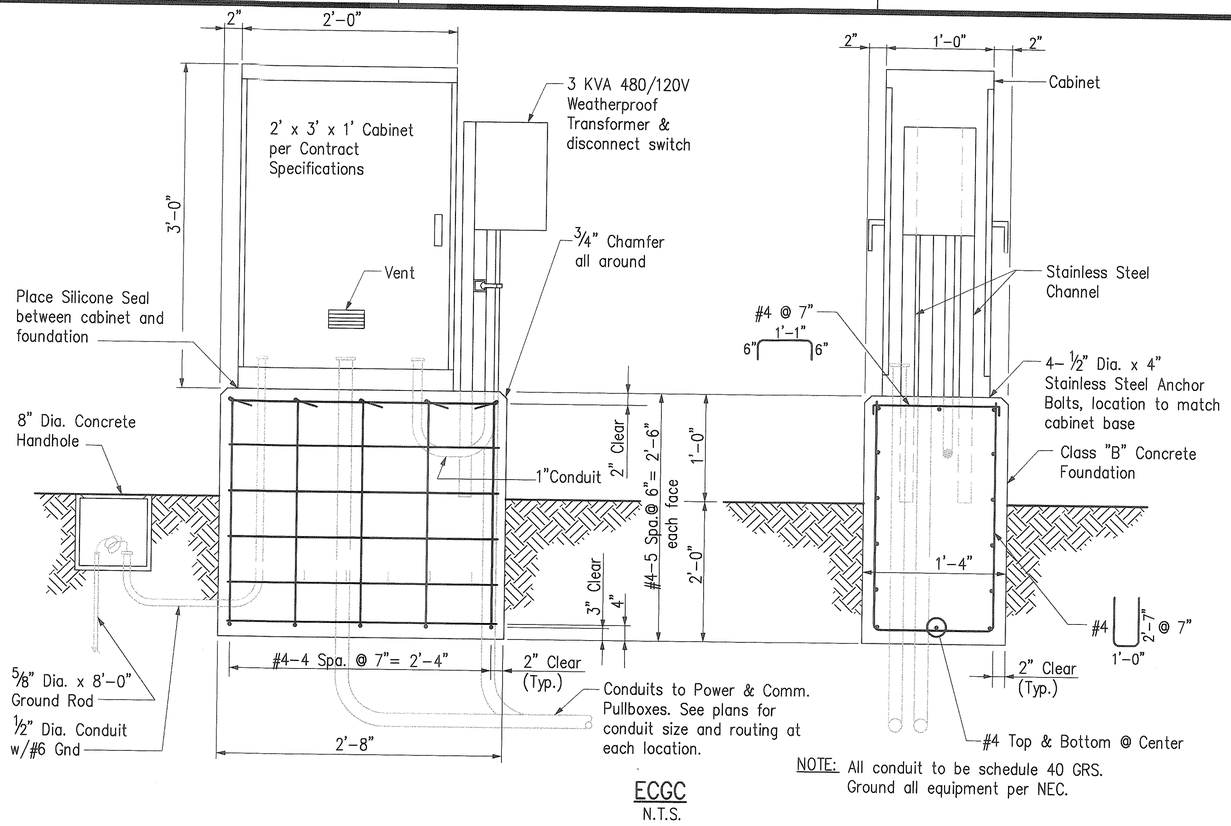
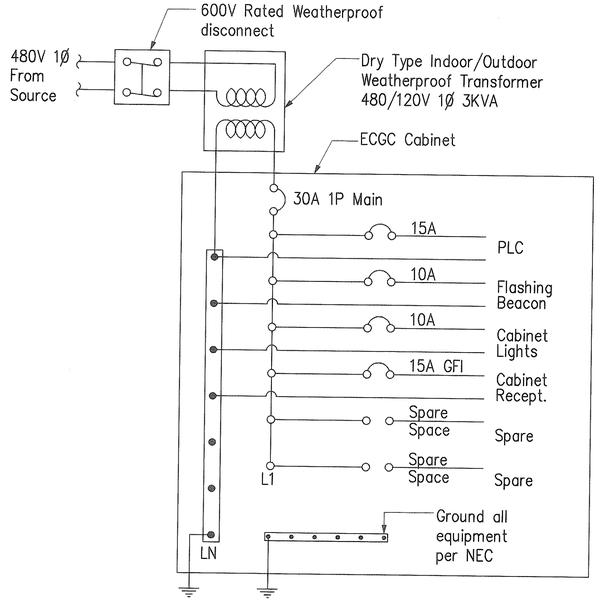
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT I	1996	355	405

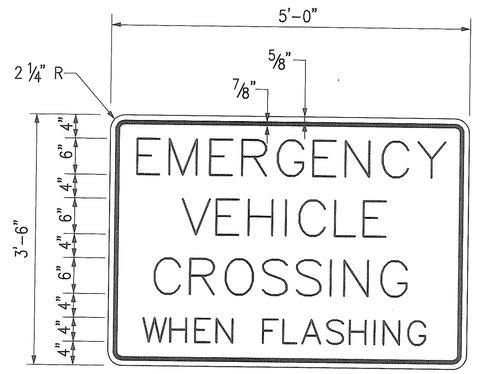


ECGC
N.T.S.

NOTE: All conduit to be schedule 40 GRS. Ground all equipment per NEC.



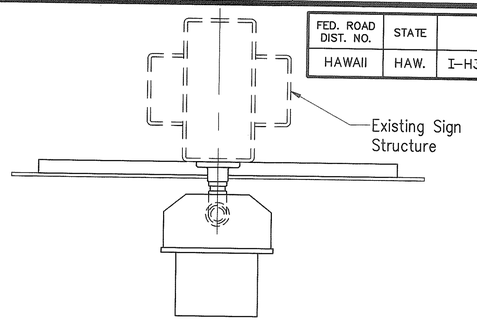
ECGC POWER WIRING DIAGRAM
N.T.S.



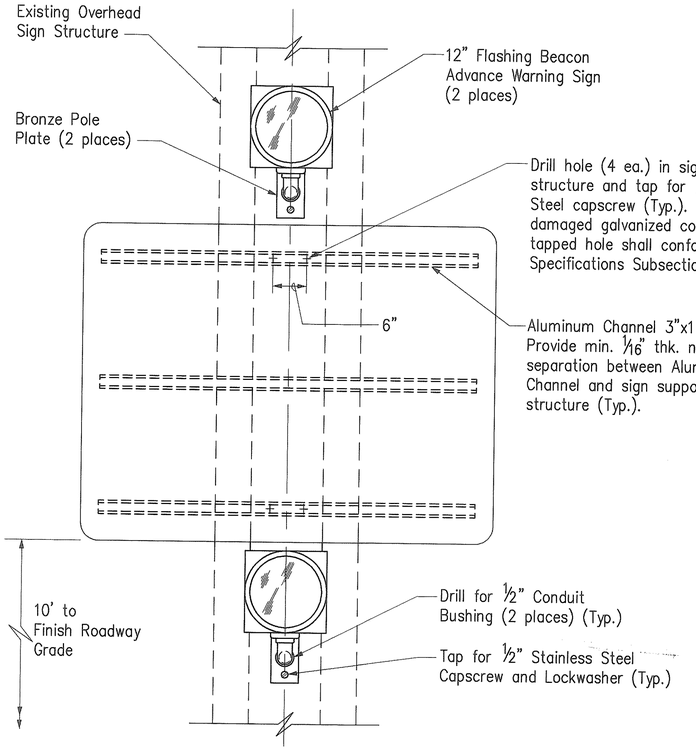
NOTES

1. All lettering to be Series D.
2. Black border and legend on yellow background.

ADVANCE WARNING SIGN DETAIL FOR EMERGENCY CROSSOVERS
N.T.S.



TOP VIEW



ADVANCE WARNING SIGN
N.T.S.

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

CAD by G.D. TRUONG, 55-52

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

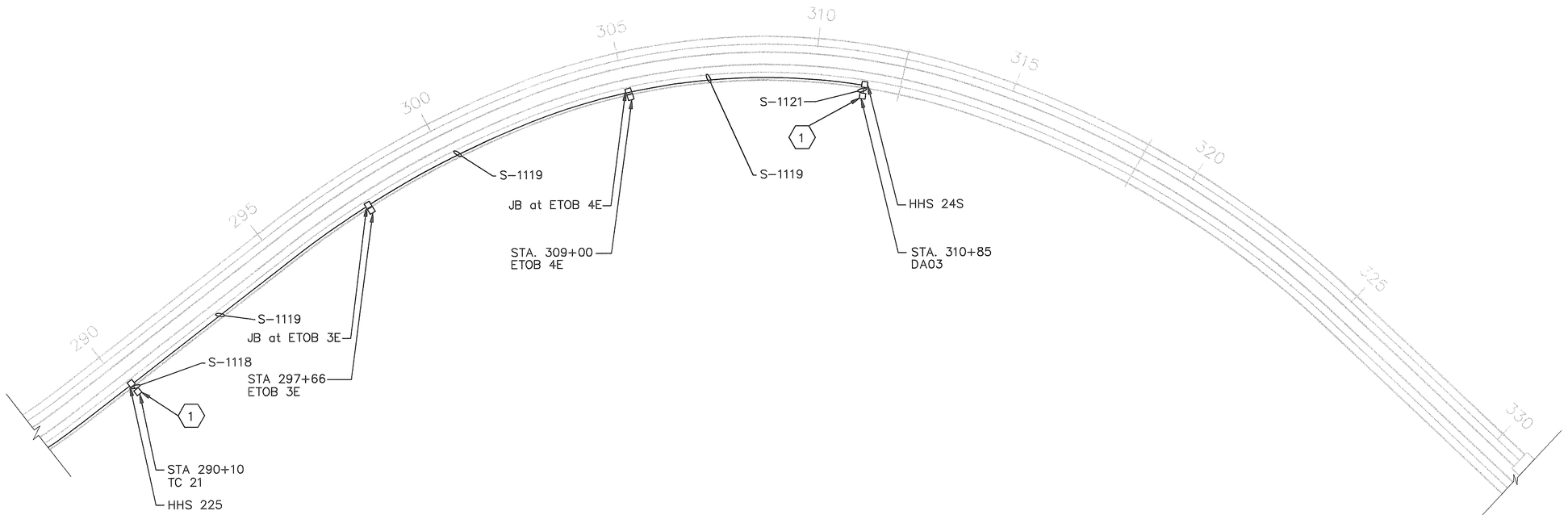
SYSTEMS
EMERGENCY CROSSOVER DETAILS

INTERSTATE ROUTE H-3
FAIP NO. I-H3-1(75), UNIT I

SCALE: AS SHOWN DATE: JANUARY 1996

SHEET NO. SY6 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT I	1996	356	405



EXIST. RUN NO.	CIRCUIT ID	FROM	TO	SIZE INCH	CABLE QUANTITY	
S-1118	CO	TC 21	HHS 22S	2.00	1-4MM (TC21 to FO HUB 07)	1-4MM Fiber (DA03)
S-1119	CO	HHS 22S	ETOB 3E	2.00	1-2pr #22 (ETOB 3E)	1-4MM Fiber (DA03)
S-1119	CO	ETOB 3E	ETOB 4E	2.00	empty	1-4MM Fiber (DA03)
S-1119	CO	ETOB 4E	HHS 24S	2.00	1-2pr #22 (ETOB 4E)	1-4MM Fiber (DA03)
S-1121	CO	HHS 24S	DA03	2.00	empty	1-4MM Fiber (DA03)
		Existing per previous contracts				New per FAIP NO. I-H3-1(75), UNIT I

CONSTRUCTION NOTES:

(1) Coil 10' cable in cabinet for future use.

HAIKU APPROACH

GRAPHIC SCALE:
200' 100' 0' 200' 400'

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LICENSED PROFESSIONAL ENGINEER
No. 8561-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS
HAIKU APPROACH

INTERSTATE ROUTE H-3
FAIP NO. I-H3-1(75), UNIT I

SCALE: NTS DATE: JANUARY 1996

SHEET NO. SY7 OF 9 SHEETS

356

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

CAD by: O.D. TROWNS, 54-52

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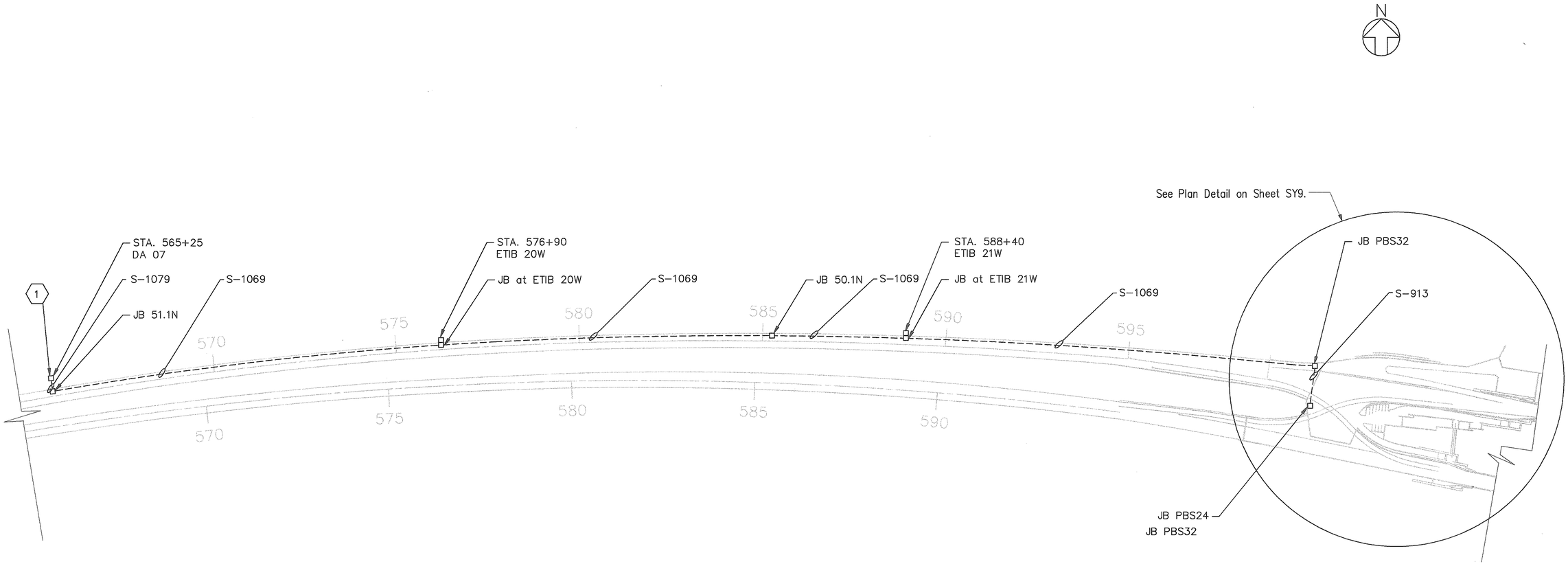
356

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT I	1996	357	405



EXIST. RUN NO.	CIRCUIT ID	FROM	TO	SIZE INCH	CABLE QUANTITY	
S-913	COMM	PBS 24	PBS 32	3.00	4-2pr #22 (ETIB 18W-21W)	1-4MM Fiber (DA07)
S-1069	COMM	PBS 32	ETIB 21W	3.00	4-2pr #22 (ETIB 18W-21W)	1-4MM Fiber (DA07)
S-1069	COMM	ETIB 21W	HHS 50.1N	3.00	3-2pr #22 (ETIB 18W-20W)	1-4MM Fiber (DA07)
S-1069	COMM	HHS 50.1N	ETIB 20W	3.00	3-2pr #22 (ETIB 18W-20W)	1-4MM Fiber (DA07)
S-1069	COMM	ETIB 20W	HHS 51.1N	3.00	2-2pr #22 (ETIB 18W-19W)	1-4MM Fiber (DA07)
S-1079	COMM	HHS 51.1N	DA07	2.00		1-4MM Fiber (DA07)
		Existing per previous contracts				New per FAIP NO. I-H3-1(75), UNIT I

CONSTRUCTION NOTES:

(1) Coil 10' of cable in DA07 cabinet for future use.

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

CAD by O.D. TRUONG, 55-52

Last Saved: J:\H3RF\U1\TMS\H375G8I.dwg 02/19/96 at 10:41

HALAWA APPROACH

GRAPHIC SCALE:
200' 100' 0' 200' 400'

GLEN J. FROMM
LICENSED PROFESSIONAL ENGINEER
No. 8561-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SYSTEMS
HALAWA APROACH

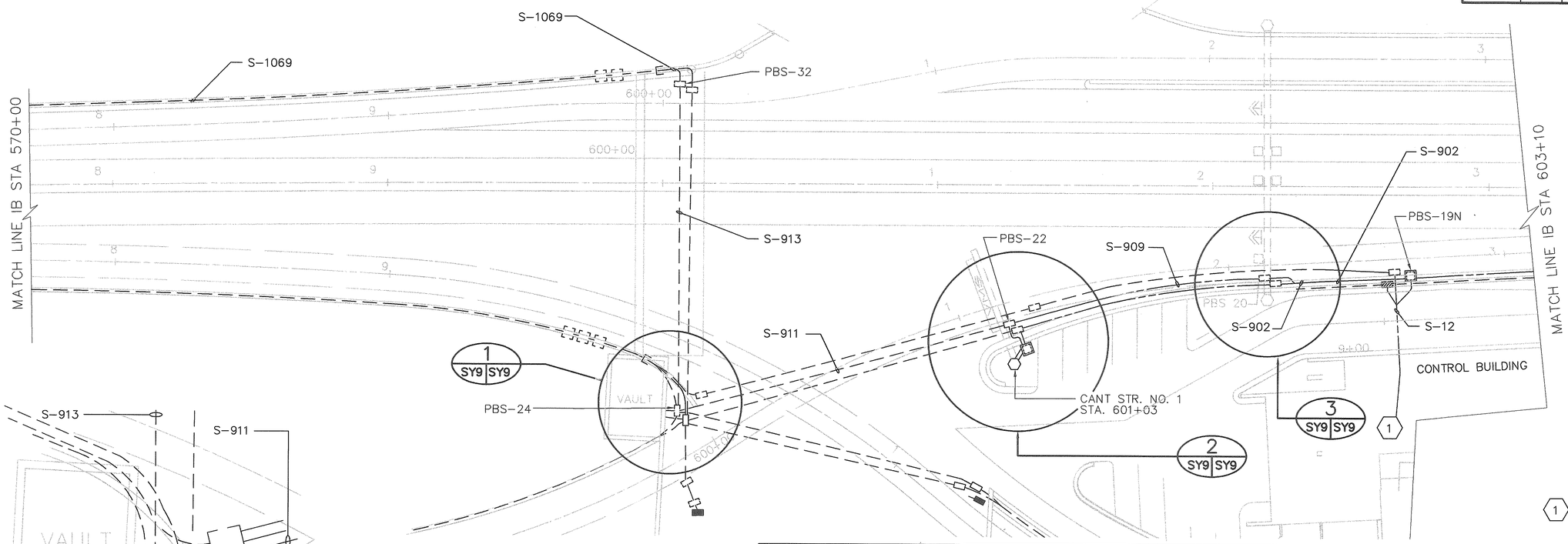
INTERSTATE ROUTE H-3
FAIP NO. I-H3-1(75), UNIT I

SCALE: NTS DATE: JANUARY 1996

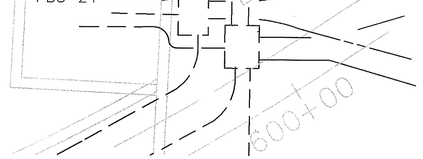
SHEET NO. SY8 OF 9 SHEETS

357

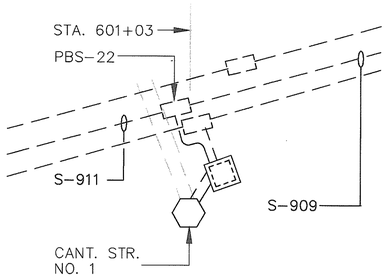
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(75), UNIT I	1996	358	405



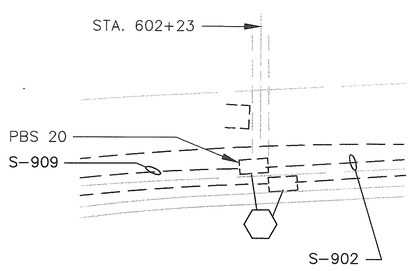
PLAN DETAIL
SCALE: 1" = 20'



DETAIL 1 (SY9 | SY9)
SCALE: 1" = 10'-0"



DETAIL 2 (SY9 | SY9)
SCALE: 1" = 10'-0"



DETAIL 3 (SY9 | SY9)
SCALE: 1" = 10'-0"

EXIST. RUN NO.	CIRCUIT ID	FROM	TO	SIZE INCH	CABLE QUANTITY	
S-12	COMM	CB	PBS 19N	3.00	4-2pr #22 (ETIB 18W-21W)	1-4MM Fiber (DA07)
					1-48SM Fiber (F013 to F014)	
					1-48SM Fiber (F002 to F014)	
					1-24MM Fiber (F014 to F009)	
					1-4MM Fiber (F014 to SC11)	
S-902	COMM	PBS 19N	PBS 20	3.00	4-2pr #22 (ETIB 18W-21W)	1-4MM Fiber (DA07)
					1-48SM Fiber (F002 to F014)	
S-909	COMM	PBS 20	PBS 22	3.00	4-2pr #22 (ETIB 18W-21W)	1-4MM Fiber (DA07)
					1-48SM Fiber (F002 to F014)	
					1-4MM Fiber (F014 to SC11)	
S-911	COMM	PBS 22	PBS 24	3.00	4-2pr #22 (ETIB 18W-21W)	1-4MM Fiber (DA07)
					1-48SM Fiber (F002 to F014)	
S-913	COMM	PBS 24	PBS 32	3.00	4-2pr #22 (ETIB 18W-21W)	1-4MM Fiber (DA07)
S-1069	COMM	PBS 32	ETIB 21W	3.00	4-2pr #22 (ETIB 18W-21W)	1-4MM Fiber (DA07)

Existing per previous contracts | New per FAIP NO. I-H3-1(75), UNIT I

CONSTRUCTION NOTES:

(1) Coil 150' cable in CC equipment room for future use.

GRAPHIC SCALE:

20' 10' 0' 20' 40'
1" = 20'-0"

10' 5' 0' 10' 20'
1" = 10'-0"

GLEN J. FROMM
LICENSED PROFESSIONAL ENGINEER
No. 8561-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYSTEMS
HALAWA APPROACH

INTERSTATE ROUTE H-3
FAIP NO. I-H3-1(75), UNIT I

SCALE: AS SHOWN DATE: JANUARY 1996

SHEET NO. SY9 OF 9 SHEETS

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

CAD by J. Mimura, 55-52

Last Saved: J:\H3RF\U1\TMS\H375T36f.dwg 02/21/96 at 09:32

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