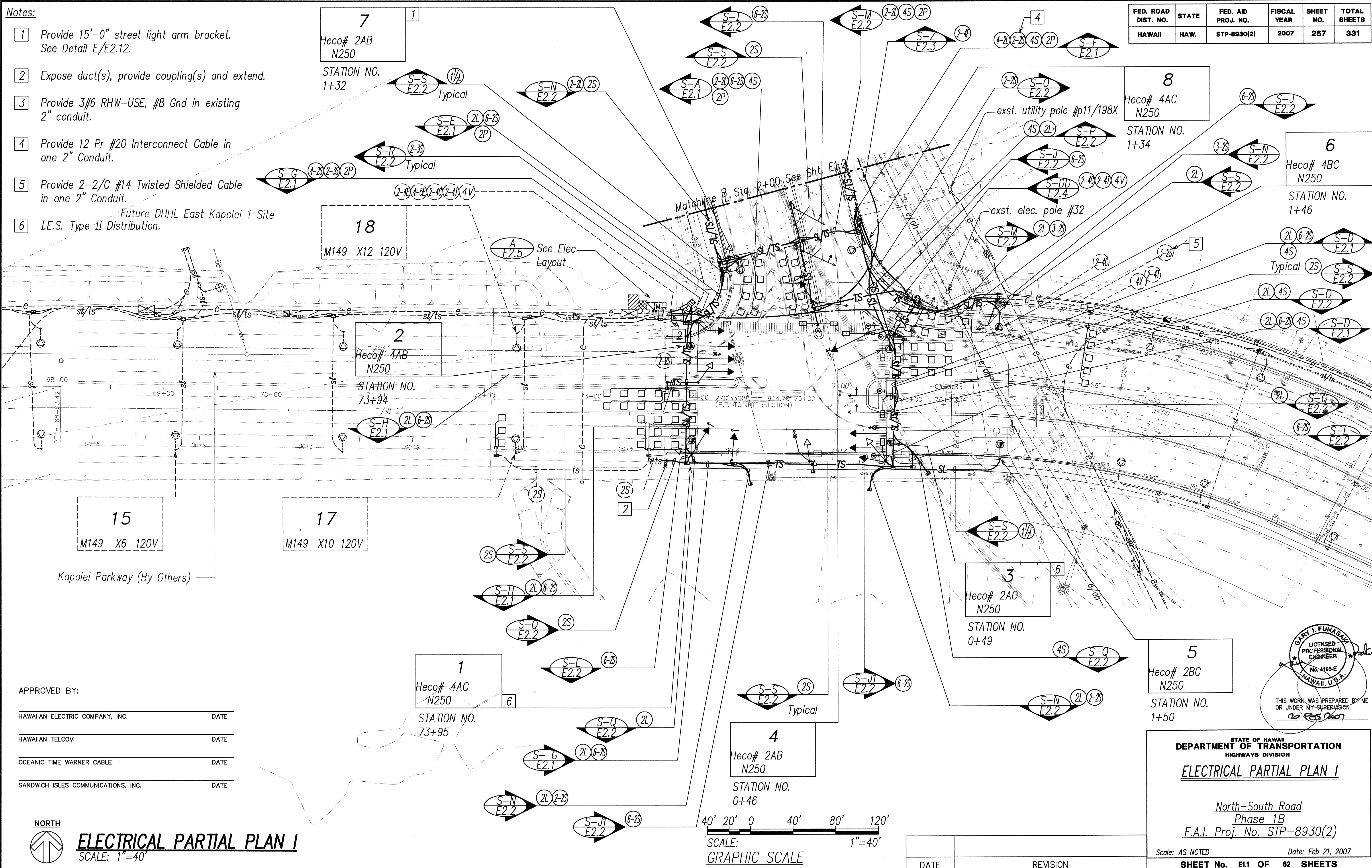


Notes:

- 1 Provide 15'-0" street light arm bracket.
See Detail E/E2.12.
- 2 Expose duct(s), provide coupling(s) and extend.
- 3 Provide 3#6 RHW-USE, #8 Gnd in existing
2" conduit.
- 4 Provide 12 Pr #20 Interconnect Cable in
one 2" Conduit.
- 5 Provide 2-2/C #14 Twisted Shielded Cable
in one 2" Conduit.
- 6 I.E.S. Type II Distribution.

Future DHHL East Kapolei 1 Site



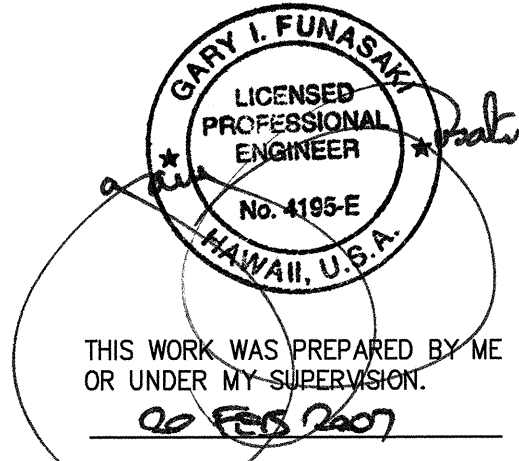
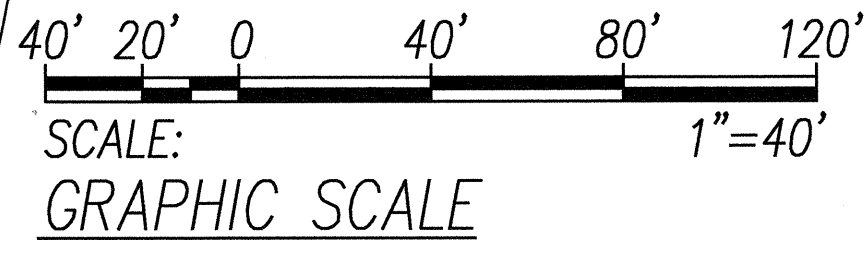
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(2)	2007	267	331

APPROVED BY:	
HAWAIIAN ELECTRIC COMPANY, INC.	DATE
HAWAIIAN TELCOM	DATE
OCEANIC TIME WARNER CABLE	DATE
SANDWICH ISLES COMMUNICATIONS, INC.	DATE



ELECTRICAL PARTIAL PLAN I

SCALE: 1"=40'



5
Heco# 2BC
N250
STATION NO.
1+50

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ELECTRICAL PARTIAL PLAN I

North-South Road
Phase 1B
F.A.I. Proj. No. STP-8930(2)

Scale: AS NOTED Date: Feb 21, 2007

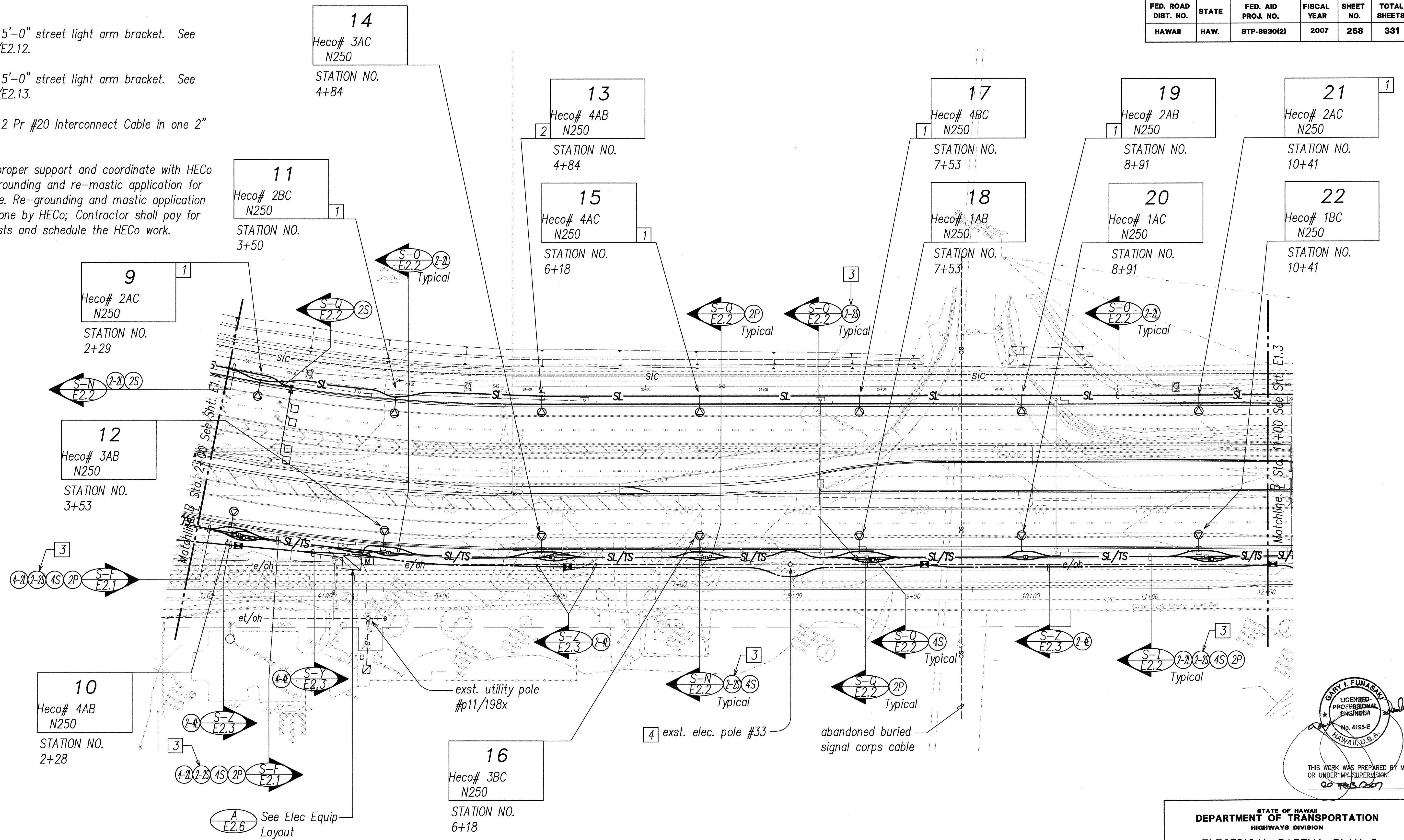
SHEET No. E11 OF 62 SHEETS

DATE	REVISION

Notes:

- 1 Provide 15'-0" street light arm bracket. See Detail E/E2.12.
- 2 Provide 15'-0" street light arm bracket. See Detail D/E2.13.
- 3 Provide 12 Pr #20 Interconnect Cable in one 2" Conduit.
- 4 Provide proper support and coordinate with HECO for re-grounding and re-mastic application for steel pole. Re-grounding and mastic application will be done by HECO; Contractor shall pay for HECO costs and schedule the HECO work.

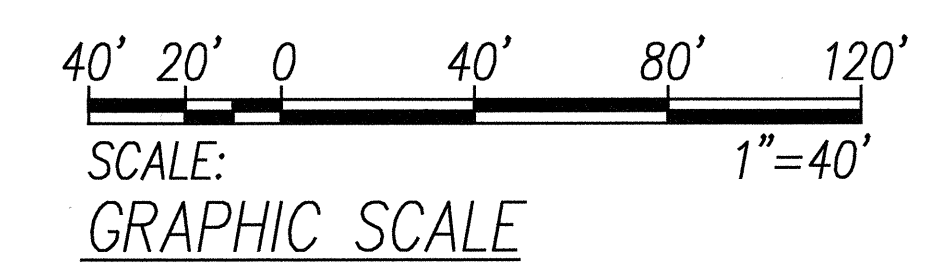
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(2)	2007	268	331



DATE	
DESIGNED BY	
TRACED BY	
NOTED BY	
CHECKED BY	
APPROVED BY	

APPROVED BY: _____
HAWAIIAN ELECTRIC COMPANY, INC. DATE: _____

ELECTRICAL PARTIAL PLAN 2
SCALE: 1"=40'



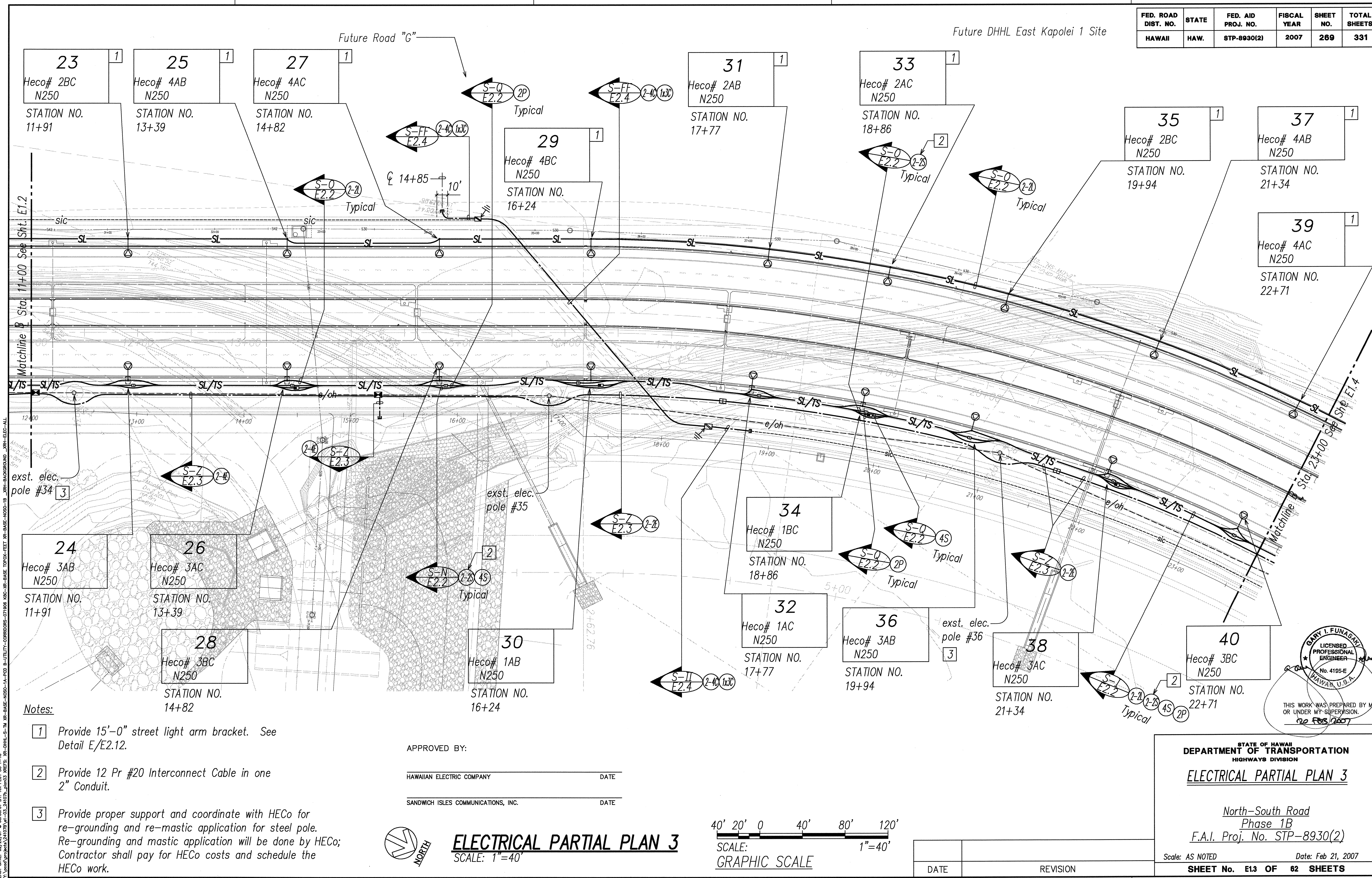
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ELECTRICAL PARTIAL PLAN 2

North-South Road
Phase 1B
F.A.I. Proj. No. STP-8930(2)

Scale: AS NOTED Date: Feb 21, 2007

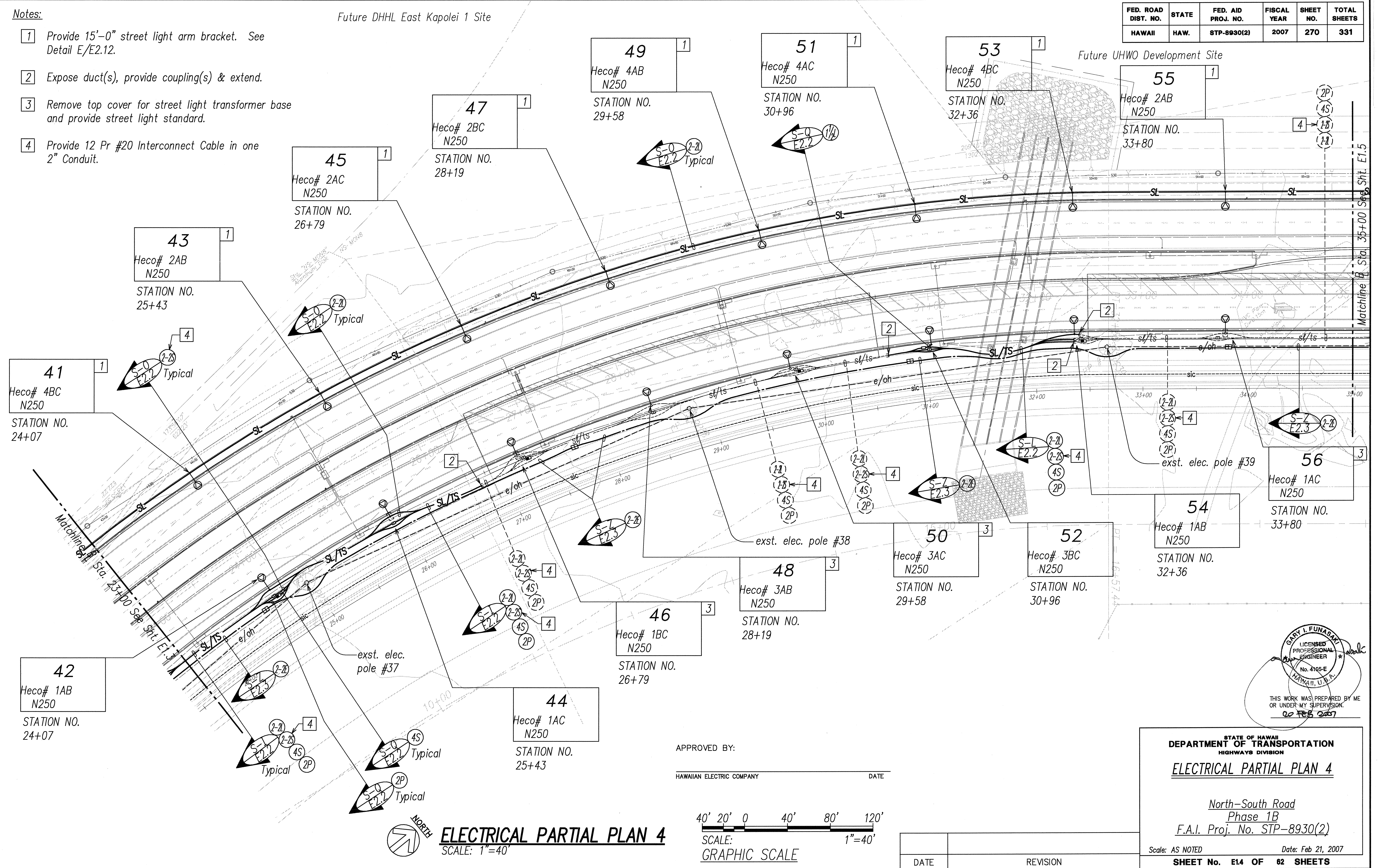
SHEET No. E12 OF 62 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(2)	2007	269	331



Notes:

- 1 Provide 15'-0" street light arm bracket. See Detail E/E2.12.
- 2 Expose duct(s), provide coupling(s) & extend.
- 3 Remove top cover for street light transformer base and provide street light standard.
- 4 Provide 12 Pr #20 Interconnect Cable in one 2" Conduit.



ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
NOTE BOOK	DRAWN BY _____
	TRACED BY _____
	DESIGNED BY _____
	QUANTITIES BY _____
%	CHECKED BY _____

LAST SAVE: 02/20/07 @ 08:54:25 BY: RN PLOT SC 1=40

APPROVED BY:

HAWAIIAN ELECTRIC COMPANY

DATE _____

40' 20' 0 40' 80' 120'

SCALE: 1"=40'

GRAPHIC SCALE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

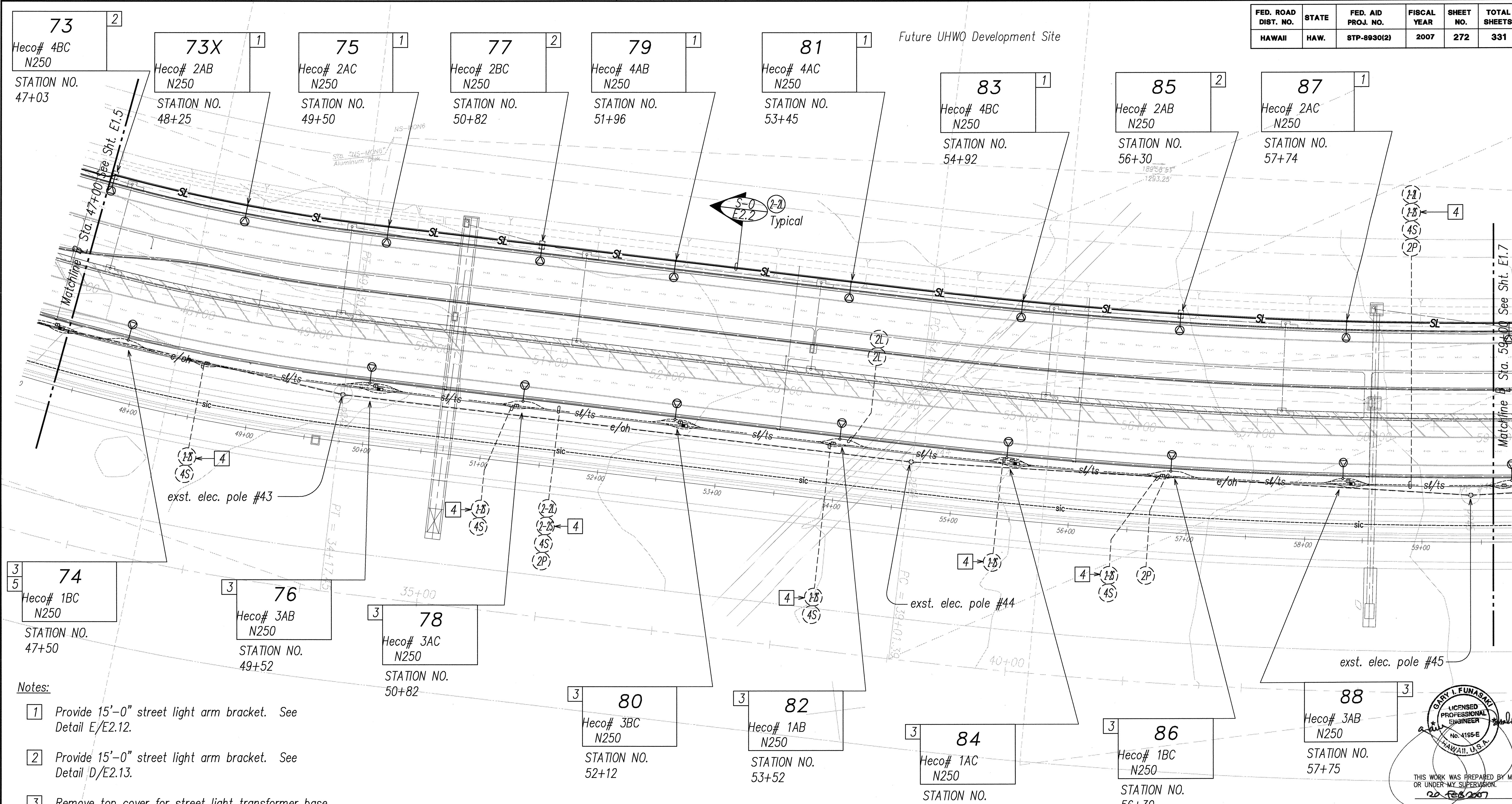
ELECTRICAL PARTIAL PLAN 4

North-South Road
Phase 1B
F.A.I. Proj. No. STP-8930(2)

Scale: AS NOTED Date: Feb 21, 2007

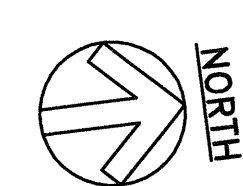
SHEET No. E1.4 OF 62 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(2)	2007	272	331

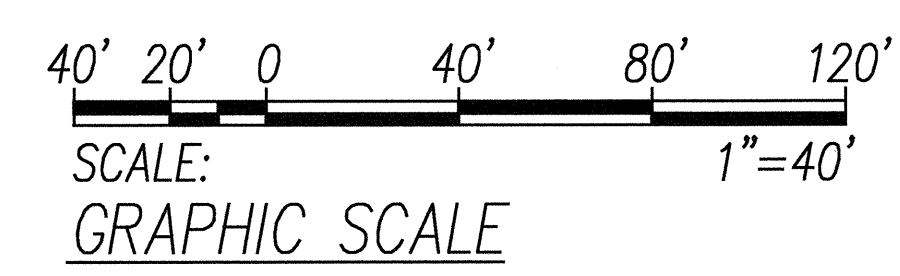


Notes:

- 1 Provide 15'-0" street light arm bracket. See Detail E/E2.12.
- 2 Provide 15'-0" street light arm bracket. See Detail D/E2.13.
- 3 Remove top cover for street light transformer base and provide street light standard.
- 4 Provide 12 Pr #20 Interconnect Cable in one 2" Conduit.
- 5 I.E.S. type II Distribution.



ELECTRICAL PARTIAL PLAN 6
SCALE: 1"=40'



DATE	REVISION

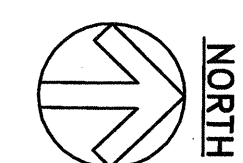
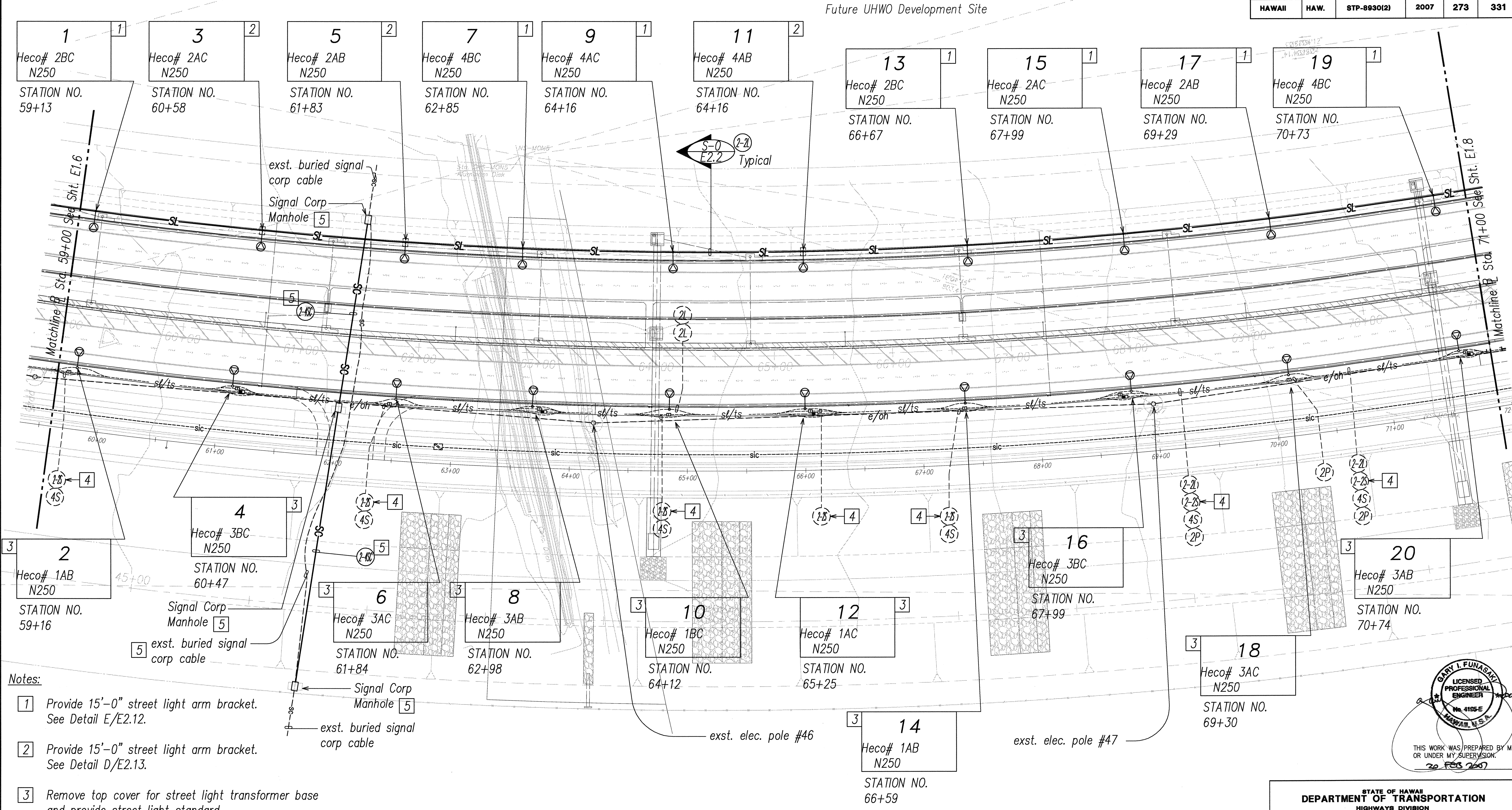
**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ELECTRICAL PARTIAL PLAN 6**

North-South Road
Phase 1B
F.A.I. Proj. No. STP-8930(2)

Scale: AS NOTED Date: Feb 21, 2007

SHEET No. E18 OF 62 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(2)	2007	273	331



ELECTRICAL PARTIAL PLAN 7
SCALE: 1"=40'

40' 20' 0 40' 80' 120'
SCALE:
GRAPHIC SCALE
1"=40'

DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ELECTRICAL PARTIAL PLAN 7

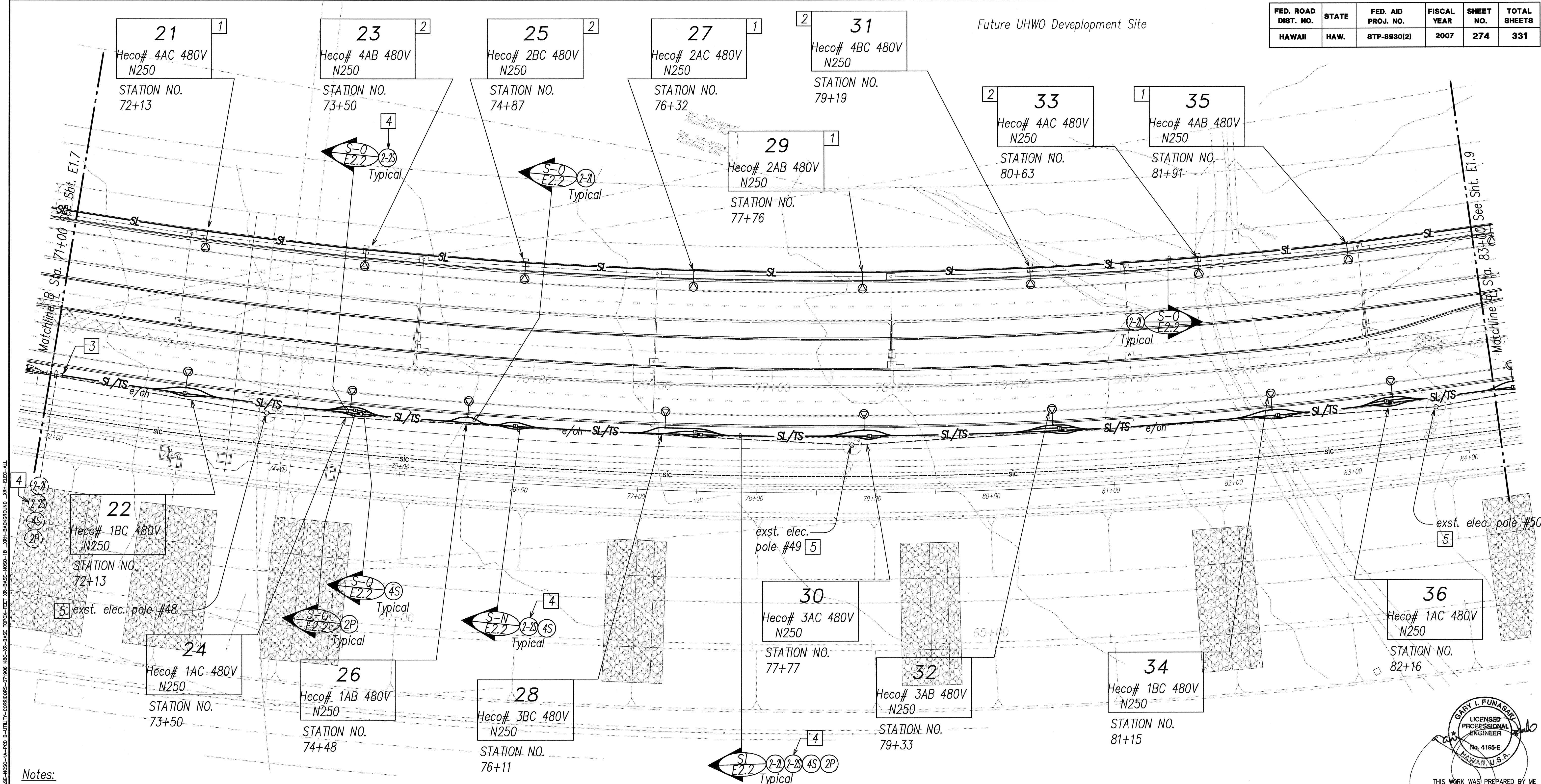
North-South Road
Phase 1B
F.A.I. Proj. No. STP-8930(2)

Scale: AS NOTED Date: Feb 21, 2007

SHEET No. E17 OF 62 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(2)	2007	274	331

Future UHWO Development Site



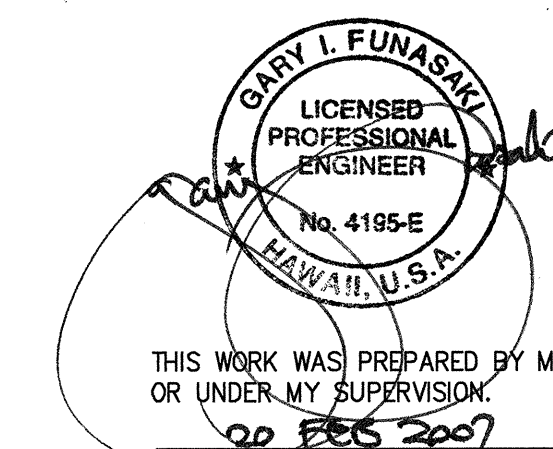
Notes:

- 1 Provide 15'-0" street light arm bracket. See Detail E/E2.12.
- 2 Provide 15'-0" street light arm bracket. See Detail D/E2.13.
- 3 Expose duct(s), provide coupling(s) and extend.
- 4 Provide 12 Pr #20 Interconnect Cable in one 2" Conduit.
- 5 Provide proper support and coordinate with HECO for re-grounding and re-mastic application for steel pole. Re-grounding and mastic application will be done by HECO; Contractor shall pay for HECO costs and schedule the HECO work.



ELECTRICAL PARTIAL PLAN 8
SCALE: 1"=40'

40' 20' 0 40' 80' 120'
SCALE:
GRAPHIC SCALE
1"=40'



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ELECTRICAL PARTIAL PLAN 8

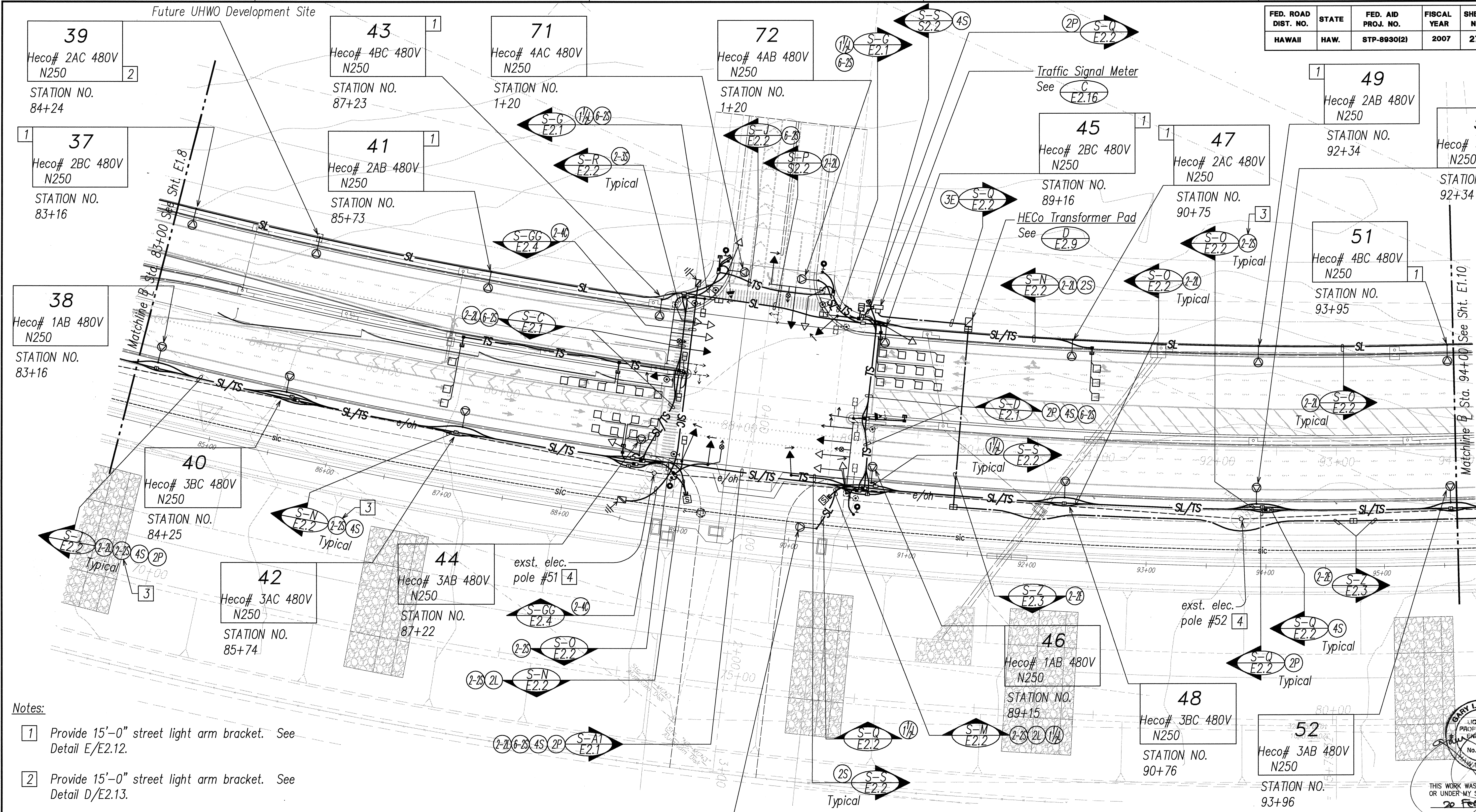
North-South Road
Phase 1B
F.A.I. Proj. No. STP-8930(2)

Scale: AS NOTED Date: Feb 21, 2007

SHEET No. E18 OF 62 SHEETS

DATE	REVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(2)	2007	275	331

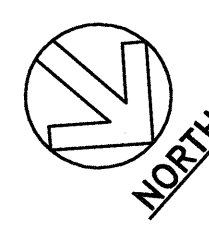


- Notes:
- 1 Provide 15'-0" street light arm bracket. See Detail E/E2.12.
 - 2 Provide 15'-0" street light arm bracket. See Detail D/E2.13.
 - 3 Provide 12 Pr #20 Interconnect Cable in one 2" Conduit.
 - 4 Provide proper support and coordinate with HECO for re-grounding and re-mastic application for steel pole. Re-grounding and mastic application will be done by HECO; Contractor shall pay for HECO costs and schedule the HECO work.

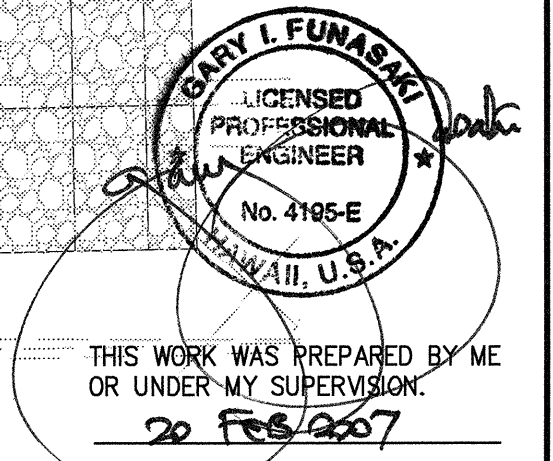
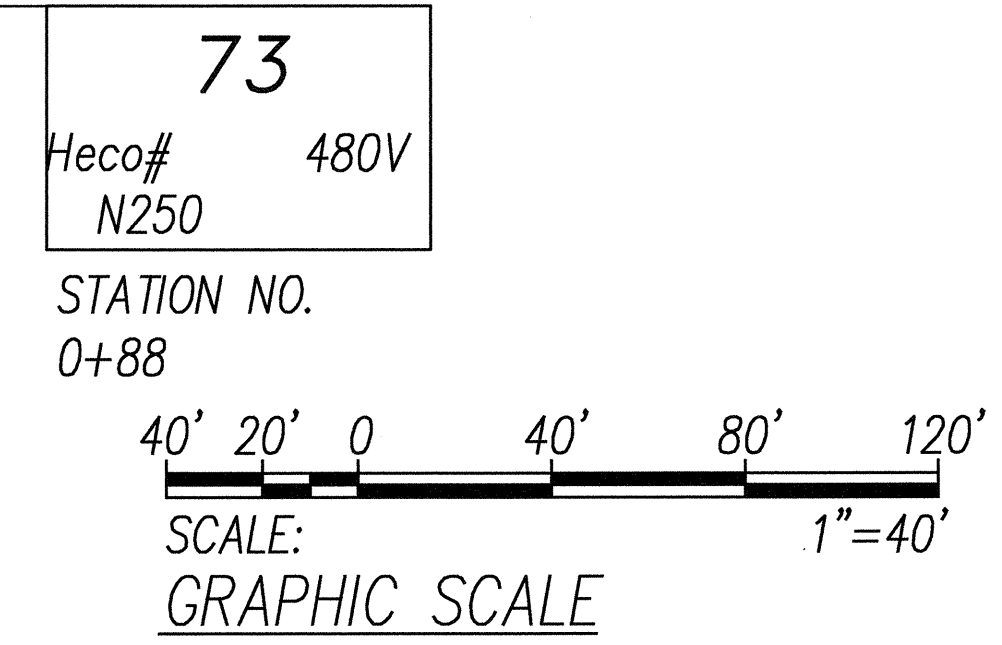
APPROVED BY:

HAWAIIAN ELECTRIC COMPANY, INC. _____ DATE _____

SANDWICH ISLES COMMUNICATIONS, INC. _____ DATE _____



ELECTRICAL PARTIAL PLAN 9 SCALE: 1"=40'



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ELECTRICAL PARTIAL PLAN 9

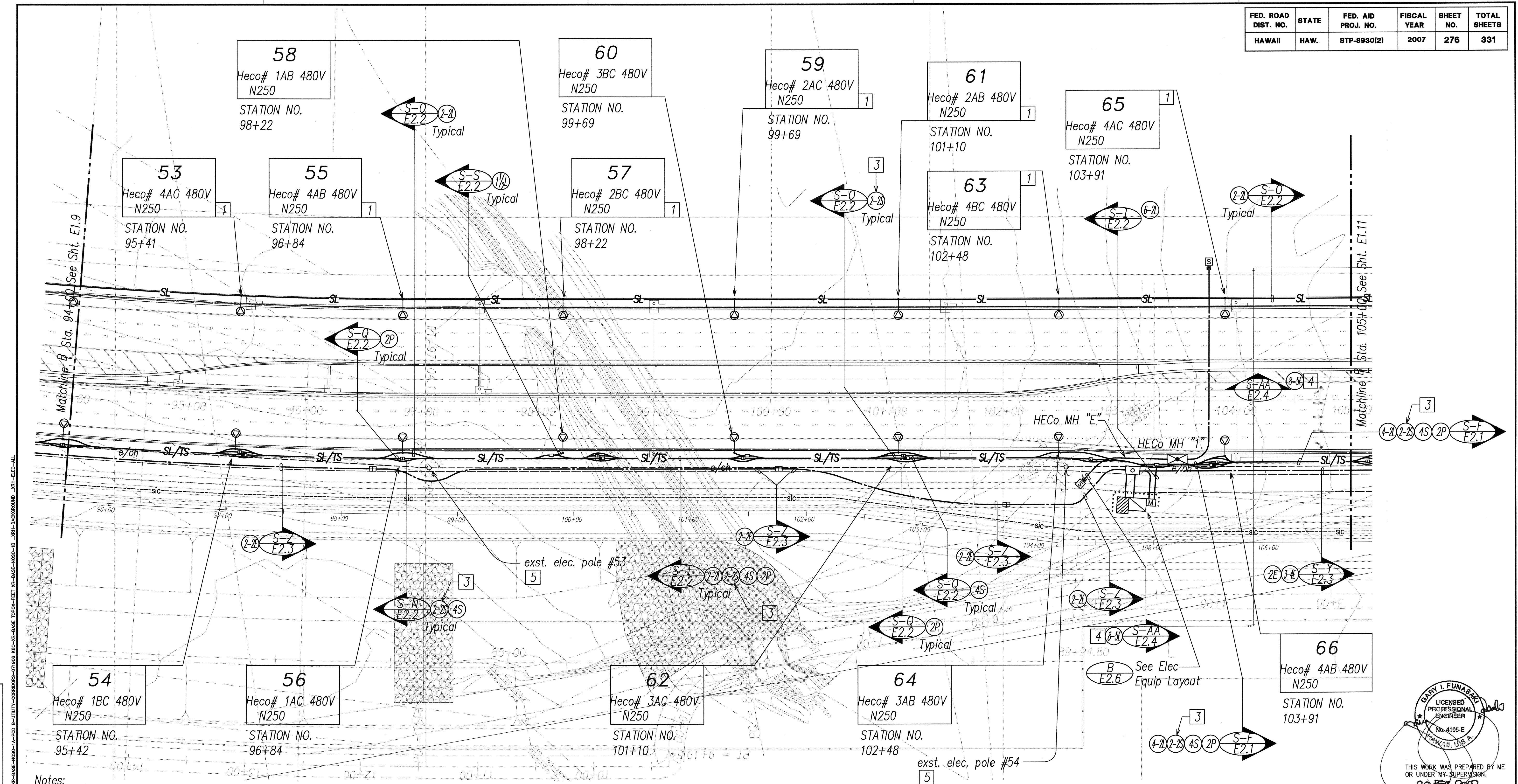
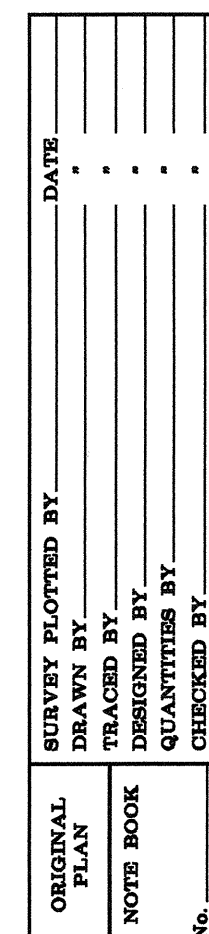
North-South Road
Phase 1B
F.A.I. Proj. No. STP-8930(2)

Scale: AS NOTED Date: Feb 21, 2007

SHEET No. E19 OF 82 SHEETS


DATE	REVISION

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(2)	2007	276	331



Notes:

- 1 Provide 15'-0" street light arm bracket. See Detail E/E2.12.
 - 2 Provide 15'-0" street light arm bracket. See Detail E/E2.13.
 - 3 Provide 12 Pr #20 Interconnect Cable in one 2" Conduit.
 - 4 Maintain 10'-0" min. clearance between HECO ductlines.



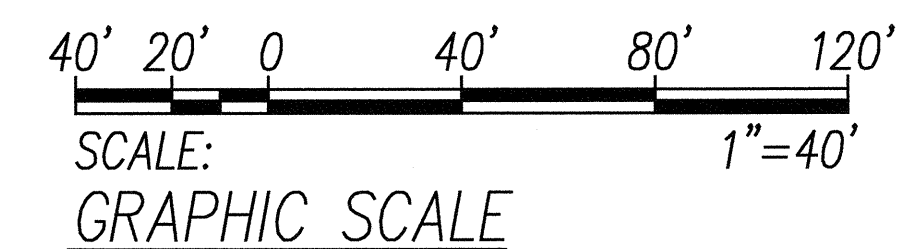
ELECTRICAL PARTIAL PLAN

SCALE: 1" = 10'

APPROVED BY:

HAWAIIAN ELECTRIC COMPANY, INC.

DATE _____



DATE

REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ELECTRICAL PARTIAL PLAN 10

North-South Road

Phase 1B

F.A.I. Proj. No. STP-8930(2)

Scale: AS NOTED

Date: Feb 21, 2007

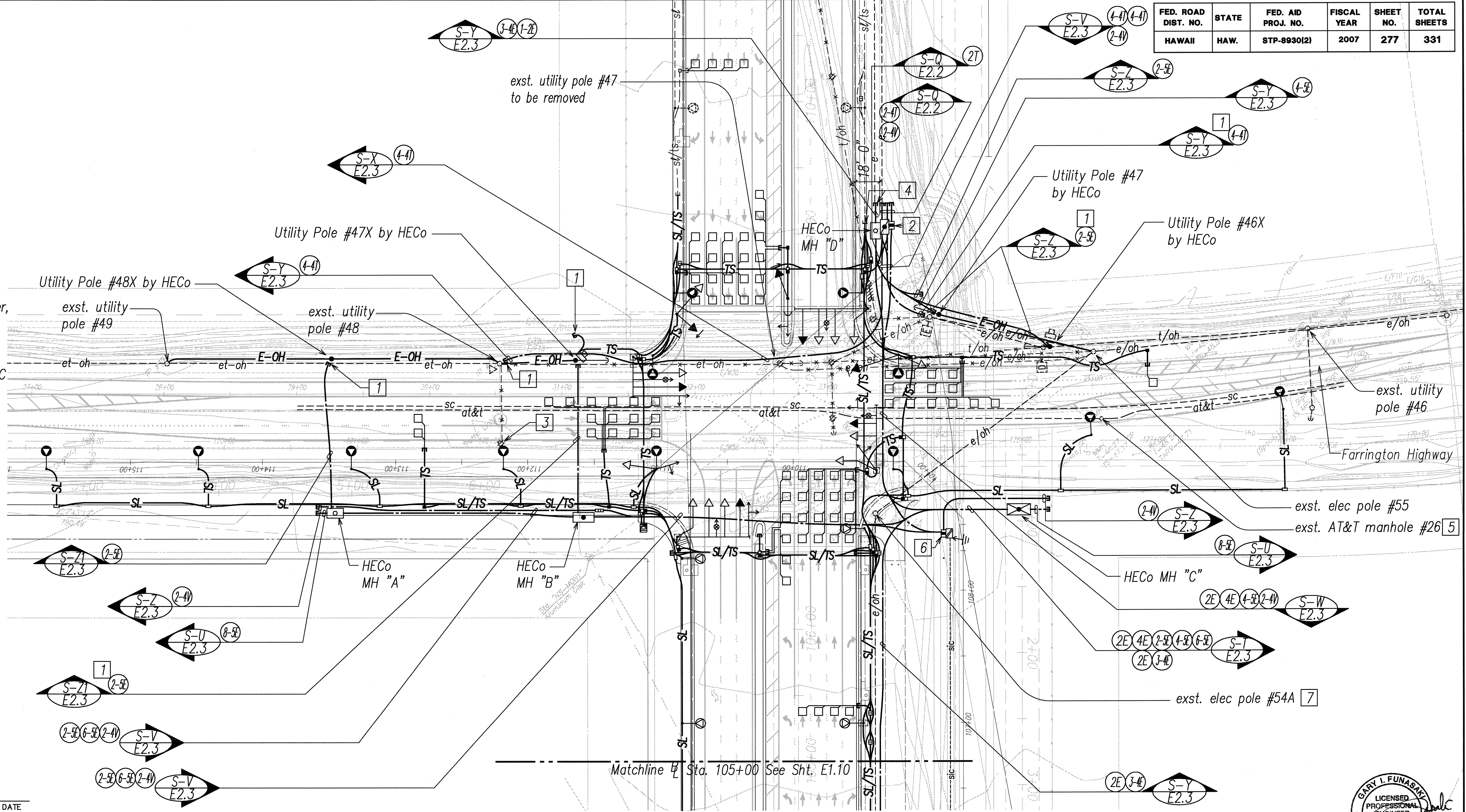
SHEET No. E1.10 OF 62 SHEETS

276

Notes:

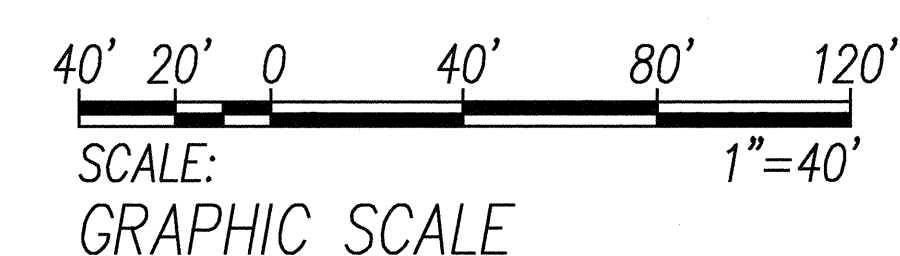
- 1 Stub conduit(s) up utility pole per respective utility company requirements.
- 2 Provide one 4"C sleeve between HTECo box and CATV box; verify location with the telecom companies and plug ends.
- 3 Disconnect & remove Flasher Assembly.
- 4 Expose duct(s), provide coupling(s) & extend.
- 5 Coordinate and raise manhole cover, per AT&T requirements. See Civil Drawings.
- 6 Provide one 4"C sleeve between SIC box and CATV box; verify location with the telcom companies and plug ends.
- 7 Provide proper support and coordinate work with HTECo for re-grounding and re-mastic application for steel pole. Re-grounding and mastic application will be done by HTECo; Contractor shall pay the HTECo costs and schedule the HTECo work.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(2)	2007	277	331



APPROVED BY:		
HAWAIIAN ELECTRIC COMPANY, INC.	DATE	
HAWAIIAN TELCOM	DATE	
OCEANIC TIME WARNER CABLE	DATE	
SANDWICH ISLES COMMUNICATONS, INC.	DATE	

Future UHWO Development Site



ELECTRICAL PARTIAL PLAN 11
SCALE: 1"=40'

GARY I. FUNASAKI
LICENSED PROFESSIONAL ENGINEER
No. 4195-E
HAWAII, U.S.A.
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
02 FEB 2007

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ELECTRICAL PARTIAL PLAN 11
North-South Road
Phase 1B
F.A.I. Proj. No. STP-8930(2)
Scale: AS NOTED Date: Feb 21, 2007
SHEET No. E111 OF 62 SHEETS

DATE	REVISION