

All Dimensions on this Sheet are in Millimeters Unless Otherwise Shown

600

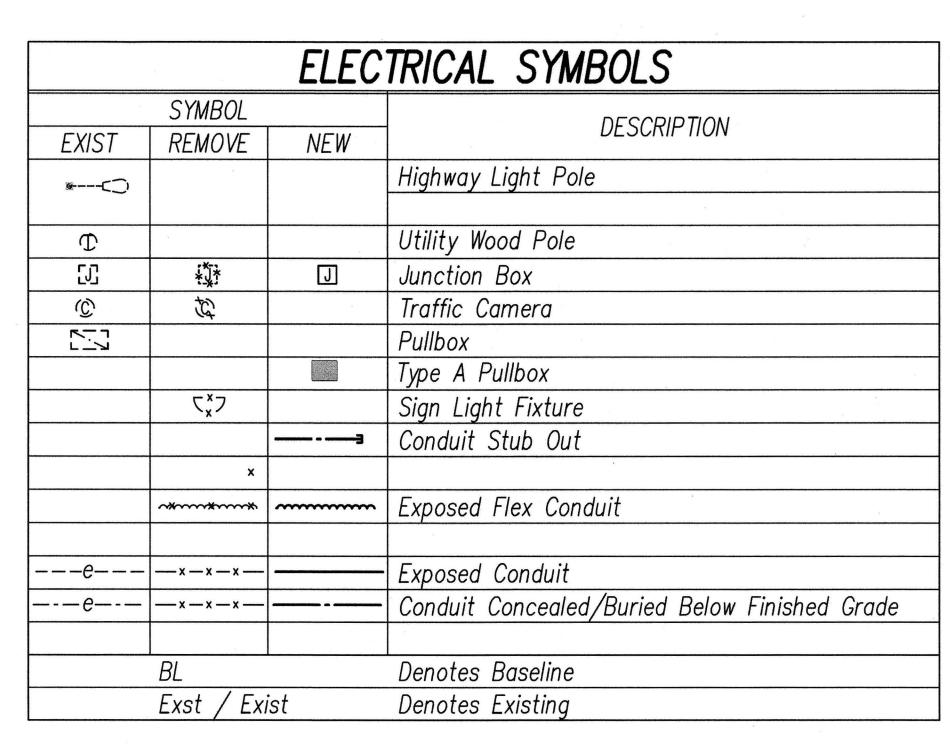
Non Skid-Surface

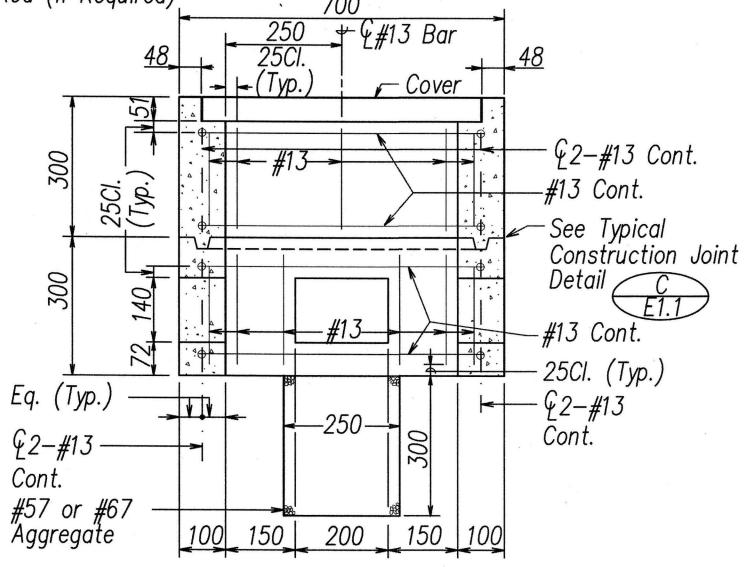
INDEX TO ELECTRICAL DRAWINGS				
Sign	Sheet Number			
H1EB-112	E3.1			
H1EB-113	E3.2			
H1EB-114	E3.3			
H1EB-308	E3.4			
H1WB-402	E3.5			
H1WBR-451	E3.6			
H1WB-418	E3.7			
H1WB-424	E3.7			
78WB-851	E3.8			
H1WB-605	E3.9			
78EBR-822	E3.9			
78WBR-871	E3.10			

–Symbol m (Hard Metric) Same Size as Mfr. Logo

-Label Pullboxes "Lighting",

Lift Slot 10 x 50





SECTION A-A

Cont.

-#13 Cont.
— See Typical
Construction Joint

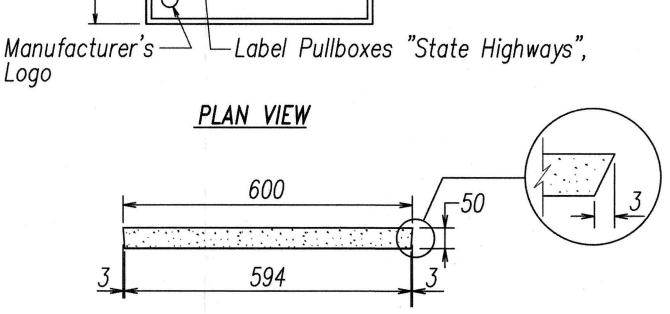
Detail /

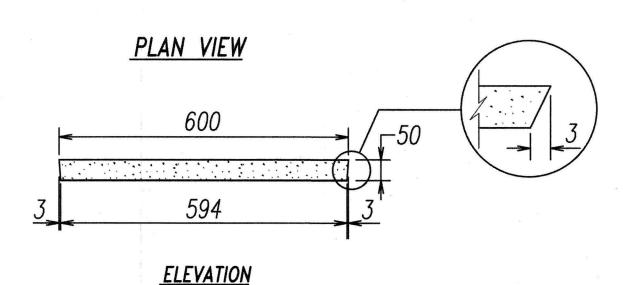
#13 Cont.

€2−#13 Cont.

#57 OR #67

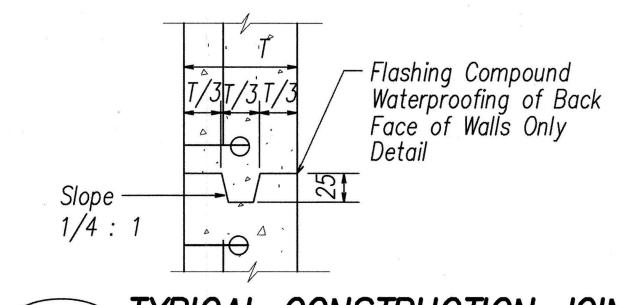
Aggregate







POLYMER CONCRETE COVER





SYMBOL NOTES

- "X" through symbol indicates item to be removed/demolished.
- 2. "e" through symbol indicates existing item.
- 3. Solid lines indicate new item/work.

GENERAL ELECTRICAL NOTES

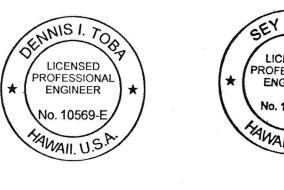
- Existing electrical equipment shall remain unless indicated otherwise.
- The location of existing underground utilities shown on plans are from existing records and are approximations only. Contractor shall exercise caution when construction crosses or is in close proximity to existing underground utilities. Damages to utility companies' existing facilities shall be repaired by the respective utility company and repair costs shall be paid by the contractor at no increase in contract time or contract price.
- CAUTION!!! Contractor shall exercise extreme caution when working on the existing handhole/pullboxes/junction boxes.

ELECTRICAL DEMOLITION NOTES

PRINCIPAL-IN-CHARGE

EXPIRATION DATE OF THE LICENSE 4/30/2018

- The Contractor shall verify all existing circuit wiring prior to any demolition work.
- The Contractor shall remove all conduits and exposed raceways, lights, photocells, cabinets, junction boxes related to sign lighting for all signs, unless otherwise noted.





THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

EXPIRATION DATE OF THE LICENSE 4/30/2018

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GENERAL ELECTRICAL NOTES AND ELECTRICAL SYMBOLS LIST

INTERSTATE ROUTE H-1, H-2 AND H201 DESTINATION SIGN UPGRADE / REPLACEMENT, PHASE 2 Federal Aid Project NO. - NH-IM-0300(142) Scale: As Shown Date: May 2016

SHEET No. E1.1 OF 191 SHEETS

TYPE A PULLBOX

125

100 100 150 100 100

SECTION B-B

EQ. (Typ.)

€2−#13 Cont.

FED. ROAD STATE DIST. NO. PROJ. NO. YEAR NO. 2016 86 HAWAII HAW. NH-IM-0300(142)

HAWAIIAN ELECTRIC NOTES (REV. 5/8/15)

1. LOCATION OF HECO FACILITIES

THE LOCATION OF HAWAIIAN ELECTRIC COMPANY'S (HECO) OVERHEAD AND UNDERGROUND FACILITIES SHOWN ON THE PLANS ARE FROM EXISTING RECORDS WITH VARYING DEGREES OF ACCURACY AND ARE NOT GUARANTEED AS SHOWN. THE CONTRACTOR SHALL VERIFY IN THE FIELD THE LOCATIONS OF THE FACILITIES AND SHALL EXERCISE PROPER CARE IN EXCAVATING AND WORKING IN THE AREA. WHEREVER CONNECTIONS OF NEW UTILITIES TO EXISTING UTILITIES AND UTILITY CROSSINGS ARE SHOWN, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS AND CROSSINGS TO VERIFY THE DEPTHS PRIOR TO EXCAVATION FOR THE NEW LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO HECO'S FACILITIES WHETHER SHOWN OR NOT SHOWN ON THE PLANS.

2. COMPLIANCE WITH HAWAII OCCUPATIONAL SAFETY AND HEALTH LAWS

THE CONTRACTOR SHALL COMPLY WITH THE STATE OF HAWAII'S OCCUPATIONAL SAFETY AND HEALTH LAWS AND REGULATIONS, INCLUDING WITHOUT LIMITATION, THOSE RELATED TO WORKING ON OR NEAR EXPOSED OR ENERGIZED ELECTRICAL LINES AND EQUIPMENT.

3. EXCAVATION CLEARANCE

THE CONTRACTOR SHALL OBTAIN AN EXCAVATION CLEARANCE FROM HECO'S PLANNING AND DESIGN SECTION OF THE CUSTOMER INSTALLATIONS DEPARTMENT (543-5654) LOCATED AT 820 WARD AVENUE, 4TH FLOOR, A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO STARTING CONSTRUCTION.

4. CAUTION!!! ELECTRICAL HAZARD!!!

EXISTING HECO OVERHEAD AND UNDERGROUND LINES ARE ENERGIZED AND WILL REMAIN ENERGIZED DURING CONSTRUCTION UNLESS PRIOR SPECIAL ARRANGEMENTS HAVE BEEN MADE WITH HECO. ONLY HECO PERSONNEL ARE TO HANDLE THESE ENERGIZED LINES AND ERECT TEMPORARY GUARDS TO PROTECT THESE LINES FROM DAMAGE. THE CONTRACTOR SHALL WORK CAUTIOUSLY AT ALL TIMES TO AVOID ACCIDENTS AND DAMAGE TO EXISTING HECO FACILITIES, WHICH CAN RESULT IN ELECTROCUTION.

OVERHEAD LINES

STATE LAW (OSHA) REQUIRES THAT A WORKER AND THE LONGEST OBJECT HE OR SHE MAY CONTACT CANNOT COME CLOSER THAN A SPECIFIED MINIMUM RADIAL CLEARANCE WHEN WORKING CLOSE TO OR UNDER ANY OVERHEAD LINES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE INFORMED OF AND COMPLY WITH THE LAW.

AT ANY TIME SHOULD THE CONTRACTOR ANTICIPATE THAT HIS WORK WILL RESULT IN THE NEED TO ENCROACH WITHIN THE MINIMUM REQUIRED CLEARANCE AS STATED IN THE LAW. THE CONTRACTOR SHALL NOTIFY HECO AT LEAST FOUR (4) WEEKS PRIOR TO THE PLANNED ENCROACHMENT SO THAT, IF FEASIBLE, THE NECESSARY PROTECTIONS (E.G. RELOCATE OR DE-ENERGIZE HECO LINES) CAN BE INVESTIGATED. HECO MAY ALSO BE ABLE TO BLANKET ITS DISTRIBUTION (12KV AND BELOW) LINES TO PROVIDE A VISUAL AID IN PREVENTING ACCIDENTAL CONTACT. HECO'S COST OF SAFEGUARDING OR IDENTIFYING ITS LINES WILL BE CHARGED TO THE CONTRACTOR.

CONTACT HECO'S CUSTOMER INSTALLATIONS DEPARTMENT AT 543-7846 FOR ASSISTANCE IN IDENTIFYING AND SAFEGUARDING OVERHEAD POWER LINES.

POLE BRACING

A MINIMUM CLEARANCE OF 10 FEET MUST BE MAINTAINED WHEN EXCAVATING AROUND UTILITY POLES AND/OR THEIR ANCHOR SYSTEM TO PREVENT WEAKENING OR POLE SUPPORT FAILURE. SHOULD WORK REQUIRE EXCAVATING WITHIN 10 FEET OF A POLE AND/OR ITS ANCHOR SYSTEM, THE CONTRACTOR SHALL PROTECT, SUPPORT, SECURE, AND TAKE ALL OTHER PRECAUTIONS TO PREVENT DAMAGE TO OR LEANING OF THESE POLES. THE CONTRACTOR IS RESPONSIBLE FOR ALL POLE BRACING DESIGNS AND STRUCTURAL CALCULATIONS. AS WELL AS THE ASSOCIATED COSTS TO BRACE, REPAIR, OR STRAIGHTEN POLES. ALL MEANS OF STRUCTURAL SUPPORT FOR THE POLE AND/OR ANCHOR SYSTEM PROPOSED BY THE CONTRACTOR SHALL BE SUBMITTED TO HECO'S CUSTOMER INSTALLATIONS DEPARTMENT (543-7846) FOR REVIEW A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO IMPLEMENTATION. THE COST OF HECO'S REVIEW/ASSISTANCE IN PROVIDING PROPER SUPPORT AND PROTECTION OF ITS POLES WILL BE CHARGED TO THE CONTRACTOR.

7. UNDERGROUND LINES

THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHENEVER CONSTRUCTION CROSSES OR IS IN CLOSE PROXIMITY OF UNDERGROUND LINE. HECO'S EXISTING ELECTRICAL CABLES ARE ENERGIZED AND WILL REMAIN ENERGIZED DURING CONSTRUCTION. ONLY HECO PERSONNEL ARE TO BREAK INTO EXISTING HECO FACILITIES, HANDLE THESE CABLES, AND ERECT TEMPORARY GUARDS TO PROTECT THESE CABLES FROM DAMAGE. THE COST OF HECO'S ASSISTANCE IN PROVIDING PROPER SUPPORT AND PROTECTION OF ITS UNDERGROUND LINES WILL BE CHARGED TO THE CONTRACTOR. FOR ASSISTANCE/COORDINATION IN PROVIDING PROPER SUPPORT AND PROTECTION OF THESE LINES, THE CONTRACTOR SHALL CALL HECO'S CUSTOMER INSTALLATIONS DEPARTMENT AT 543-7846 A MINIMUM OF TEN (10) WORKING DAYS IN ADVANCE.

SPECIAL PRECAUTIONS ARE REQUIRED WHEN EXCAVATING NEAR HECO'S 138KV UNDERGROUND LINES (SEE HECO INSTRUCTIONS TO CONSULTANTS/CONTRACTORS ON "EXCAVATION NEAR HECO'S UNDERGROUND 138KV LINES" FOR DETAILED REQUIREMENTS).

FOR VERIFICATION OF UNDERGROUND LINES, THE CONTRACTOR SHALL CALL THE HAWAII ONE CALL CENTER AT 866-423-7287 A MINIMUM OF FIVE (5) WORKING DAYS IN ADVANCE.

8. UNDERGROUND FUEL PIPELINES

THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHENEVER CONSTRUCTION CROSSES OR IS IN CLOSE PROXIMITY OF HECO'S UNDERGROUND FUEL OIL PIPELINES. SPECIAL PRECAUTIONS ARE REQUIRED WHEN EXCAVATING NEAR HECO'S UNDERGROUND FUEL OIL PIPELINES (SEE HECO'S SPECIFIC FUEL PIPELINE "GUIDELINES" TO CONSULTANTS/CONTRACTORS ON EXCAVATION NEAR HECO'S UNDERGROUND FUEL PIPELINES FOR DETAILED REQUIREMENTS).

9. EXCAVATIONS

WHEN TRENCH EXCAVATION IS ADJACENT TO OR BENEATH HECO'S EXISTING STRUCTURES OR FACILITIES, THE CONTRACTOR IS RESPONSIBLE FOR:

- ARRANGING FOR HECO STANDBY PERSONNEL TO OBSERVE WORK AT THE CONTRACTOR'S COST.
- SHEETING, BRACING, OR OTHERWISE SUPPORTING THE EXCAVATION AND STABILIZING THE EXISTING GROUND TO RENDER IT SAFE AND SECURE AND TO PREVENT POSSIBLE SLIDES, CAVE-INS, AND SETTLEMENTS.
- PROPERLY SUPPORTING EXISTING STRUCTURES OR FACILITIES WITH BEAMS, STRUTS, UNDER-PINNINGS, OR OTHER NECESSARY METHODS TO FULLY PROTECT IT FROM
- BACKFILLING WITH PROPER BACKFILL MATERIAL INCLUDING SPECIAL THERMAL BACKFILL WHERE EXISTING (REFER TO ENGINEERING DEPARTMENT FOR THERMAL BACKFILL SPECIFICATIONS).

RELOCATION OF HECO FACILITIES

ANY WORK REQUIRED TO RELOCATE OR MODIFY HECO FACILITIES SHALL BE DONE BY HECO, OR BY THE CONTRACTOR UNDER HECO'S SUPERVISION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION, AND SHALL PROVIDE NECESSARY SUPPORT FOR HECO'S WORK, WHICH MAY INCLUDE, BUT NOT BE LIMITED TO, STAKING OF POLE/ANCHOR LOCATIONS, IDENTIFYING RIGHT OF WAY AND PROPERTY LINES, EXCAVATION AND BACKFILL PERMITS AND TRAFFIC CONTROL, BARRICADING, AND RESTORATION OF PAVEMENT, SIDEWALKS, AND OTHER FACILITIES.

ALL COSTS ASSOCIATED WITH ANY RELOCATION OR MODIFICATION (EITHER TEMPORARY OR PERMANENT) FOR THE CONVENIENCE OF THE CONTRACTOR, OR TO ENABLE THE CONTRACTOR TO PERFORM HIS WORK IN A SAFE AND EXPEDITIOUS MANNER IN FULFILLING HIS CONTRACT OBLIGATIONS SHALL BE BORNE BY THE CONTRACTOR.

11. CONFLICTS

ANY REDESIGN OR RELOCATION OF HECO'S FACILITIES NOT SHOWN ON THE PLANS MAY BE CAUSE FOR LENGTHY DELAYS. THE CONTRACTOR ACKNOWLEDGES THAT HECO IS NOT RESPONSIBLE FOR ANY DELAY OR DAMAGE THAT MAY ARISE AS A RESULT OF ANY CONFLICTS DISCOVERED OR IDENTIFIED WITH RESPECT TO THE LOCATION OR CONSTRUCTION OF HECO'S ELECTRICAL FACILITIES IN THE FIELD, REGARDLESS OF WHETHER THE CONTRACTOR HAS MET THE REQUESTED MINIMUM ADVANCE NOTICES. IN ORDER TO MINIMIZE ANY DELAY OR IMPACT ARISING FROM SUCH CONFLICTS, HECO SHOULD BE NOTIFIED IMMEDIATELY UPON DISCOVERY OR IDENTIFICATION OF SUCH CONFLICT.

12. DAMAGE TO HECO FACILITIES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL HECO SURFACE AND SUBSURFACE UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGES TO HECO'S FACILITIES AS A RESULT OF HIS OPERATIONS. THE CONTRACTOR SHALL IMMEDIATELY REPORT SUCH DAMAGES OR ANY HAZARDOUS CONDITIONS RELATED TO HECO'S LINES TO HECO'S TROUBLE DISPATCHER AT 548-7961. REPAIR WORK SHALL BE DONE BY HECO OR BY THE CONTRACTOR UNDER HECO'S SUPERVISION. COSTS FOR DAMAGES TO HECO'S FACILITIES SHALL BE BORNE BY THE CONTRACTOR.

IN CASE OF DAMAGE OR SUSPECTED DAMAGE TO HECO'S FUEL PIPELINE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY HECO'S SECURITY COMMAND CENTER AT 543-7685 (A 24-HOUR NUMBER) SO HECO PERSONNEL CAN SECURE THE DAMAGED SECTION AND REPORT ANY OIL SPILLS TO THE PROPER AUTHORITIES. ALL COSTS ASSOCIATED WITH THE DAMAGE, REPAIR, AND OIL SPILL CLEANUP SHALL BE BORNE BY THE CONTRACTOR.

13. HECO STAND-BY PERSONNEL

THE CONTRACTOR MAY REQUEST HECO TO PROVIDE AN INSPECTOR TO STAND-BY DURING CONSTRUCTION NEAR HECO'S FACILITIES. THE COST OF SUCH INSPECTION WILL BE CHARGED TO THE CONTRACTOR.

THE CONTRACTOR SHALL CALL HECO'S CUSTOMER INSTALLATIONS DEPARTMENT AT 543-7846 A MINIMUM OF FIVE (5) WORKING DAYS IN ADVANCE TO ARRANGE FOR HECO STAND-BY PERSONNEL.

14. CLEARANCES

ADJACENT STRUCTURES (CHARTED AND UNCHARTED) IN THE TRENCH: THE FOLLOWING CLEARANCES SHALL BE MAINTAINED BETWEEN HECO'S DUCTLINE AND ALL





LICENSED

PROFESSIONA

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION EXPIRATION DATE OF THE LICENSE 4/30/2018 EXPIRATION DATE OF THE LICENSE 4/30/2018

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION HECO NOTES

INTERSTATE ROUTE H-1, H-2 AND H201 DESTINATION SIGN UPGRADE / REPLACEMENT, PHASE 2 Federal Aid Project NO. - NH-IM-0300(142) Scale: As Shown

SHEET No. E1.2 OF 191 SHEETS

Date: May 2016

FED. ROAD	STATE	FED. AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	NH-IM-0300(142)	2016	87	191

MINIMUM SEPARATION CLEARANCES TO EXISTING UNDERGROUND DUCTLINES HORIZONTAL (PARALLEL)							
UTILITY BEING INSTALLED	EXISTING DIRECT BURIED CABLE	EXISTING DIRECT BURIED IN CONDUIT (NO CONCRETE ENCASEMENT)	EXISITNG 3" CONCRETE ENCASEMENT	APPLICABLE NOTES:			
HECO DB CONDUITS	12"	3"	0"				
HECO 3" ENCASEMENT	0"	0"	0"				
TELEPHONE/CATV DB	12"	12"	6"				
TELEPHONE/CATV DB DUCTS	12"	. 12"	6"				
TELEPHONE/CATV 3" ENCASEMENT	0"	0"	0"	5			
TRAFFIC SIGNAL	12"	12"	12"	2 2			
WATER DB	36"	36"	36"	1,4			
WATER SERVICE LATERALS	12"	12"	12"				
WATER (CONCRETE JACKETED)	36"	36"	36"	1,4			
GAS DB	12"	12"	12"	1			
GAS (CONCRETE JACKETED)	12"	12"	12"	1			
SEWER DB	36"	36"	36"	1,2			
SEWER (CONCRETE JACKETED)	36"	36"	36"	1,2			
DRAIN	12"	12"	12"	1			
FUEL PIPELINES				3			

NOTES:

- 1. WHERE SPACE IS AVAILABLE, PARALLEL CLEARANCE TO OTHER UTILITIES, OR FOREIGN STRUCTURES OTHER THAN COMMUNICATION OR TRAFFIC SIGNAL SHALL BE 36".
- 2. IF 36" CLEARANCE CANNOT BE MET:
 - IF CLEARANCE IS LESS THAN 12", JACKET SEWER LINE WITH REINFORCED CONCRETE (PER HECO'S STANDARD 30-1030) FOR A DISTANCE OF 5'-0" PLUS PIPE DIAMETER.
 - IF CLEARANCE IS BETWEEN 12" AND 36", JACKET SEWER LINE WITH PLAIN CONCRETE.
- 3. ALL FUEL PIPELINE CROSSINGS SHALL BE REVIEWED AND APPROVED BY THE COMPANY THAT OWNS AND MAINTAINS IT.
- 4. 5 FEET CLEAR TO WATER MAINS 16" AND LARGER.
- 5. FOR SITUATIONS WITH 0" MINIMUM SEPARATION, A 6" SEPARATION IS RECOMMENDED.
- 6. CLEARANCES MEASURED FROM OUTER EDGES OR DIAMETERS OF UTILITIES.

MINIMUM SEPARATION CLEARANCES TO EXISTING UNDERGROUND DUCTLINES VERTICAL (CROSSING)						
UTILITY BEING INSTALLED	EXISTING DIRECT BURIED CABLE	DIRECT DIRECT BURIED EXIS		APPLICABLE NOTES:		
HECO DB CONDUITS	6"	3"	0"	2		
HECO 3" ENCASEMENT	0"	0"	0"			
TELEPHONE/CATV DB	12"	12"	6"			
TELEPHONE/CATV DB DUCTS	12"	12"	6"	10		
TELEPHONE/CATV 3" ENCASEMENT	0"	0"	O"	5		
TRAFFIC SIGNAL	12"	12"	6"			
WATER DB	6"	6"	6"	2		
WATER SERVICE LATERALS	6"	6"	6"			
WATER (CONCRETE JACKETED)	6"	6"	6"	2		
GAS DB	12"	12"	12"			
GAS (CONCRETE JACKETED)	12"	12"	12"	=		
SEWER DB	24"	24"	24"	× 1		
SEWER (CONCRETE JACKETED)	24"	24"	24"	1		
DRAIN	12"	12"	6"			
		/		_		

NOTES:

FUEL PIPELINES

- 1. IF CLEARANCE CANNOT BE MET:
 - IF CLEARANCE IS LESS THAN 12", JACKET SEWER LINE WITH REINFORCED CONCRETE (PER HECO'S STANDARD 30-1030) FOR A DISTANCE OF 5'-0" PLUS PIPE DIAMETER.
 - IF CLEARANCE IS BETWEEN 12" AND 24", JACKET SEWER LINE WITH PLAIN CONCRETE.
- 2. 12" VERTICAL CLEARANCE FOR PIPE DIAMETERS GREATER THAN 16".
- 3. ALL FUEL PIPELINE CROSSINGS SHALL BE REVIEWED AND APPROVED BY THE COMPANY THAT OWNS AND MAINTAINS IT.
- 4. 5 FEET CLEAR TO WATER MAINS 16" AND LARGER.
- 5. FOR SITUATIONS WITH 0" MINIMUM SEPARATION, A 6" SEPARATION IS RECOMMENDED.
- 6. CLEARANCES MEASURED FROM OUTER EDGES OR DIAMETERS OF UTILITIES.

THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER AND HECO OF ANY HEAT SOURCES (POWER CABLE DUCT BANK, STEAMLINE, ETC.) ENCOUNTERED THAT ARE NOT PROPERLY IDENTIFIED ON THE DRAWING.

15. **INDEMNITY**

THE CONTRACTOR SHALL INDEMNIFY, DEFEND AND HOLD HARMLESS HECO FROM AND AGAINST ALL LOSSES, DAMAGES, CLAIMS, AND ACTIONS, INCLUDING BUT NOT LIMITED TO REASONABLE ATTORNEY'S FEES AND COSTS BASED UPON OR ARISING OUT OF DAMAGE TO PROPERTY OR INJURIES TO PERSONS, OR OTHER TORTIOUS ACTS CAUSED OR CONTRIBUTED TO BY CONTRACTOR OR ANYONE ACTING UNDER ITS DIRECTION OR CONTROL OR ON ITS BEHALF; PROVIDED CONTRACTOR'S INDEMNITY SHALL NOT BE APPLICABLE TO ANY LIABILITY BASED UPON THE SOLE NEGLIGENCE OF HECO.

ADDITIONAL NOTES WHEN WORK INVOLVES CONSTR. OF HECO FACILITIES

16. SCHEDULE

CONTRACTOR SHALL FURNISH HIS CONSTRUCTION SCHEDULE SIX (6) MONTHS PRIOR TO STARTING WORK ON HECO FACILITIES. CONTRACTOR SHALL GIVE HECO, IN WRITING, THREE (3) MONTHS NOTICE TO PROCEED WITH HECO'S PORTION OF WORK.

17. **AUTHORITY**

ALL CONSTRUCTION, RESTORATION WORK, AND INSPECTION SHALL BE SUBJECT TO WHICHEVER GOVERNMENTAL AGENCY HAS AUTHORITY OVER THE WORK.

18. **SPECIFICATIONS**

CONSTRUCTION OF HECO'S UNDERGROUND FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REVISIONS OF HECO SPECIFICATIONS CS7001, CS7003, CS7202, CS9301, AND CS9401 AND APPLICABLE HECO STANDARDS.

19. **CONSTRUCTION**

CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, AND SERVICES TO PROPERLY PERFORM AND FULLY COMPLETE ALL WORK SHOWN ON THE CONTRACT, DRAWINGS, AND SPECIFICATIONS. ALL MATERIALS SHALL BE NEW AND MANUFACTURED IN THE UNITED STATES OF AMERICA. ALL MANHOLE, HANDHOLE, AND DUCTLINE INSTALLATIONS SHALL BE INSPECTED AND APPROVED BY HECO PRIOR TO EXCAVATION AND PRIOR TO PLACING CONCRETE. CONTRACTOR SHALL NOTIFY HECO'S INSPECTION DIVISION AT 543-4329 AT LEAST FIVE (5) WORKING DAYS PRIOR TO INSTALLING FACILITIES OR PLACING CONCRETE.

CONTRACTOR TO COORDINATE WORK TO BREAK INTO HECO'S EXISTING ELECTRICAL FACILITIES WITH HECO'S UNDERGROUND DIVISION AT 543-4329 AT LEAST TEN WORKING DAYS IN ADVANCE.

20. STAKEOUT

THE CONTRACTOR SHALL ARRANGE FOR TONEOUTS OF ALL UNDERGROUND FACILITIES AND SHALL STAKEOUT ALL PROPOSED HECO FACILITIES WITHIN THE PROJECT AREA SO AS TO NOT CONFLICT WITH ANY UTILITY (EXISTING OR PROPOSED) AND ANY PROPOSED CONSTRUCTION OR IMPROVEMENT WORK FOR VERIFICATION BY HECO BEFORE PROCEEDING WITH HECO WORK.

21. **DUCTLINES**

ALL DUCTLINE INSTALLATIONS SHALL BE PVC SCHEDULE 40 ENCASED IN CONCRETE, UNLESS OTHERWISE NOTED. ALL COMPLETED DUCTLINES SHALL BE MANDREL TESTED BY THE CONTRACTOR IN THE PRESENCE OF HECO'S INSPECTOR USING HECO'S STANDARD PRACTICE. THE CONTRACTOR SHALL INSTALL A 1800# TENSILE STRENGTH MULETAPE PULL LINE IN ALL COMPLETED DUCTLINES DUCTLINES AFTER MANDREL TESTING IN COMPLETE.

22. JOINT POLE REMOVAL

THE LAST JOINT POLE OCCUPANT OFF THE POLES SHALL REMOVE THE POLES.

23. AS-BUILT PLANS

THE CONTRACTOR SHALL PROVIDE HECO WITH TWO SETS OF AS-BUILT REPRODUCIBLE TRACINGS SHOWING THE OFFSETS, STATIONING, AND VERTICAL ELEVATION OF THE DUCT LINE(S) CONSTRUCTED.



PRINCIPAL-IN-CHARGE

A. A. WAII, U.S.P.

LICENSED

PROFESSIONAL

ENGINEER

No. 12753-E

THIS WORK WAS PREPARED BY

2016.05.18

EXPIRATION DATE OF THE LICENSE 4/30/2018

EXPIRATION DATE OF THE LICENSE 4/30/2018

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HECO NOTES

<u>INTERSTATE ROUTE H-1, H-2 AND H201</u> DESTINATION SIGN UPGRADE / REPLACEMENT, PHASE 2

Federal Aid Project NO. - NH-IM-0300(142)

Scale: As Shown Date: May 2016

SHEET No. E1.3 OF 191 SHEETS

STATE RIGHT OF WAY BACKFILL NOTES

Trench Backfill Material "A"
When Tested According to AASHTO
T176, The Sand Equivalent Value
Shall be 20 or Greater.

Trench Backfill Material "B"
When Tested According to AASHTO
T176, The Sand Equivalent Value
of the Backfill Material Shall be
Equal to or Greater Than the
Surrounding Soil.

Trench Backfill Material "C"

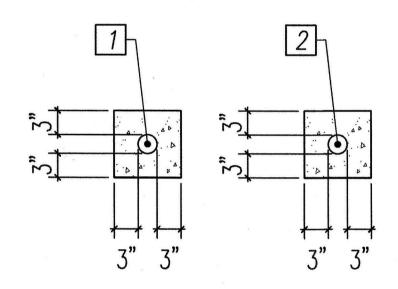
Excavate Material and Provide

3" Backfill Material "A", See Above.

Concrete — 3" Encasement, 3000 PSI COMPRESSIVE STRENGTH @ 28 DAYS.

NOTE:

See Specification Section 703.21 for Additional Trench Backfill Material Requirements.



SECTION (A) SECTION (B)

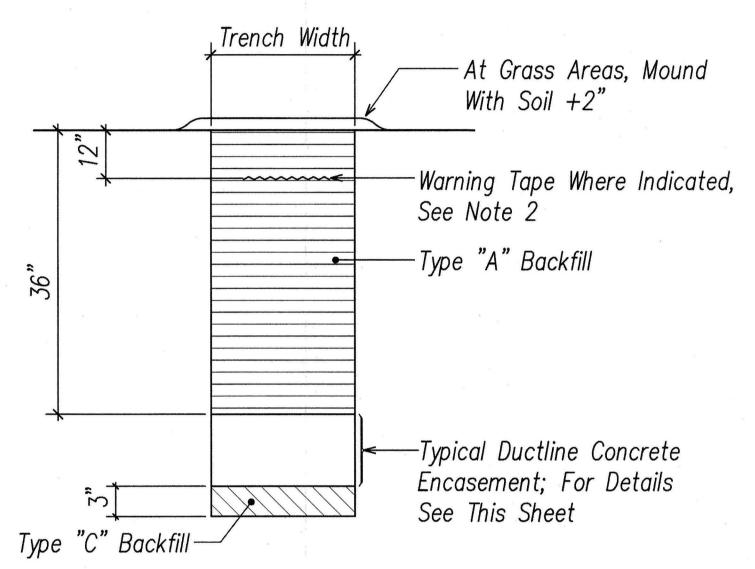
		DUCT AND	CAE	BLE	SCHEDULE	
No.	Duct Size	Cable	*		Description	,
1	1"C*	Pull-Cord		Futu	re Conductors	
2	1"C*	Pull-Cord		Matc	h Exist Conductors	

^{*} Adjust Size as Needed to Match Existing Conduit

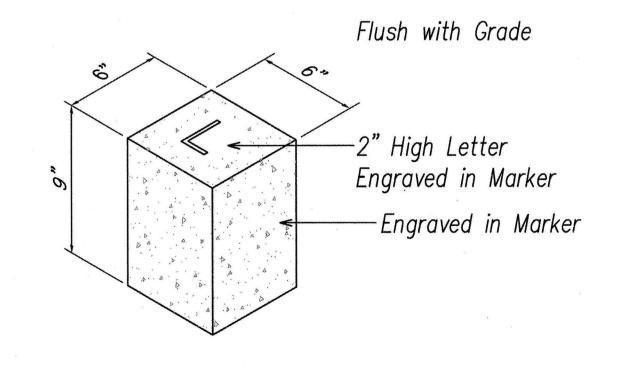
HIGHWAY LIGHT DUCT SECTION DETAILS

GENERAL DUCTLINE DUCT SECTION NOTES:

- 1. If trench is located on unpaved area, the Contractor shall replace 10" A.C. Base Course and 4" A.C. Pavement with Type "A" backfill material.
- 2. The Metal Detectable Red Plastic Warning Tape shall be a minimum 5 mils thick and 4" wide with a continuous metallic backing and corrosion resistant 1' min thick foil core. The message on the tape shall read, "CAUTION STATE HWY LIGHTING BURIED BELOW," utilizing 1 1/2 inches series "C" block lettering. The message will be repeated with a 4 1/4" spacing between top line of message and start of next repeat.



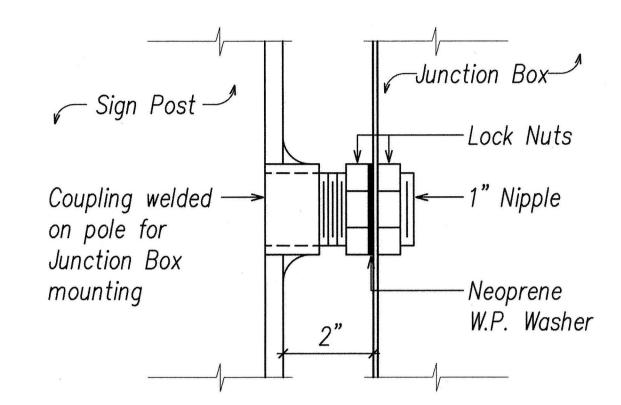
BACKFILL SECTION WITHIN STATE R-O-W
BEYOND PAVED ROADWAY
NOT TO SCALE



CONCRETE CONDUIT STUB OUT MARKER
NOT TO SCALE

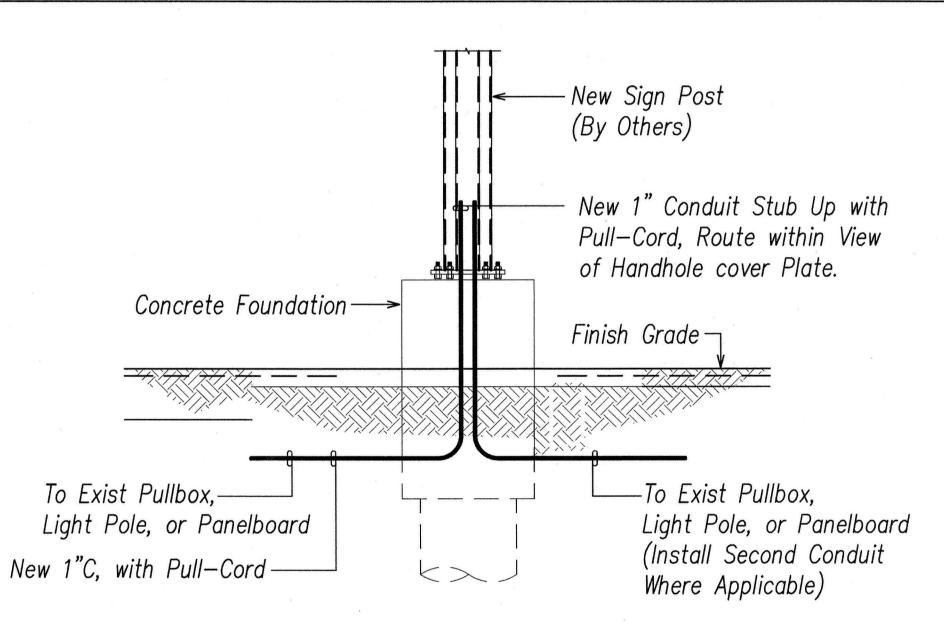
FED. ROAD DIST. NO. STATE FED. AID PROJ. NO. FISCAL SHEET NO. SHEETS

HAWAII HAW. NH-IM-0300(142) 2016 88 191



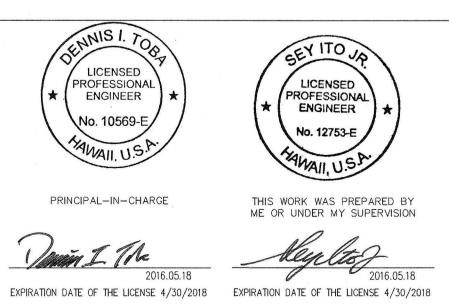
Coordinate Conduit Nipple Requirements with Pole Manufacturer. See Structural Drawings for Sign Post Detail.

CONDUIT NIPPLE DETAIL NOT TO SCALE



TYPICAL ELECTRICAL ELEVATION FOR SIGNS MOUNTED ABOVE FINISH GRADE

Scale: As Shown



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

<u>DUCT SECTION AND MISCELLANEOUS</u> <u>DETAILS</u>

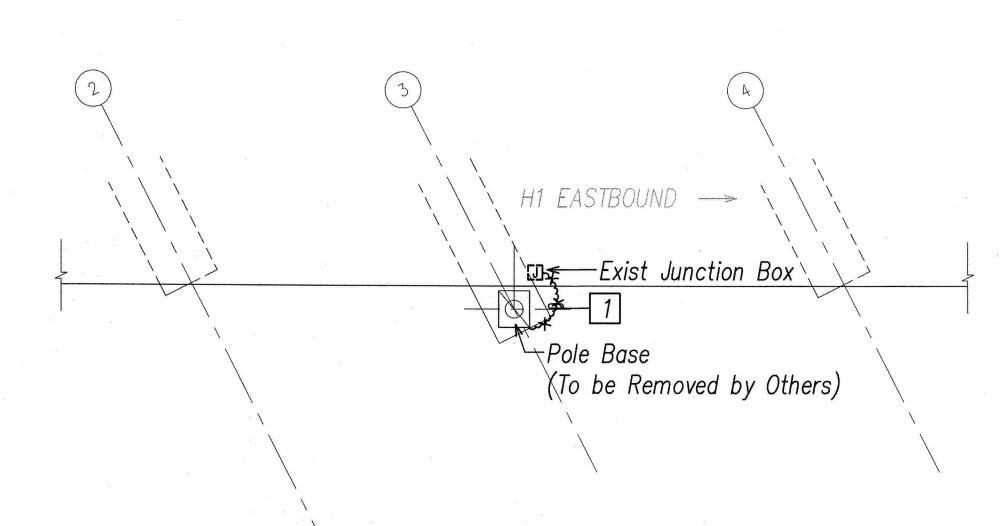
INTERSTATE ROUTE H-1, H-2 AND H201

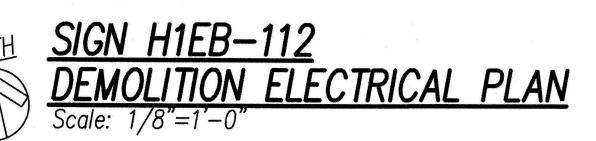
DESTINATION SIGN UPGRADE / REPLACEMENT, PHASE 2

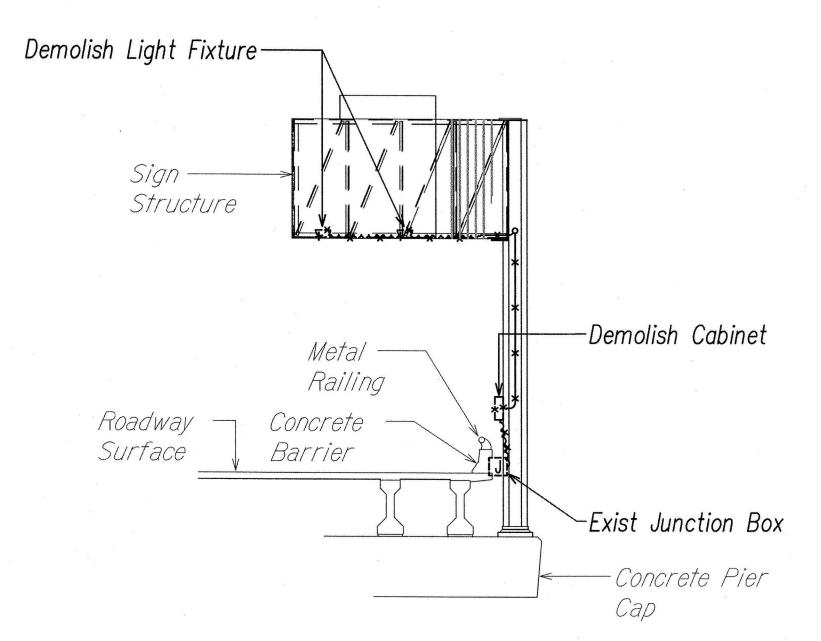
Federal Aid Project NO. - NH-IM-0300(142)

SHEET No. E2.1 OF 191 SHEETS

Date: May 2016



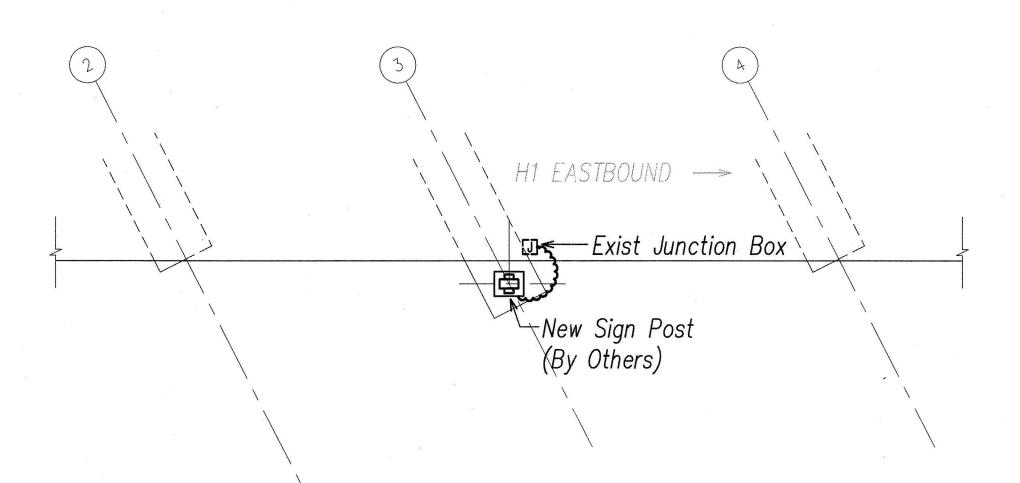


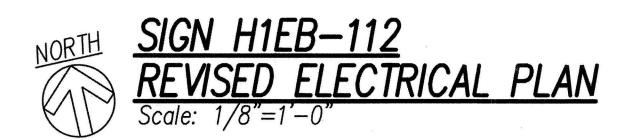


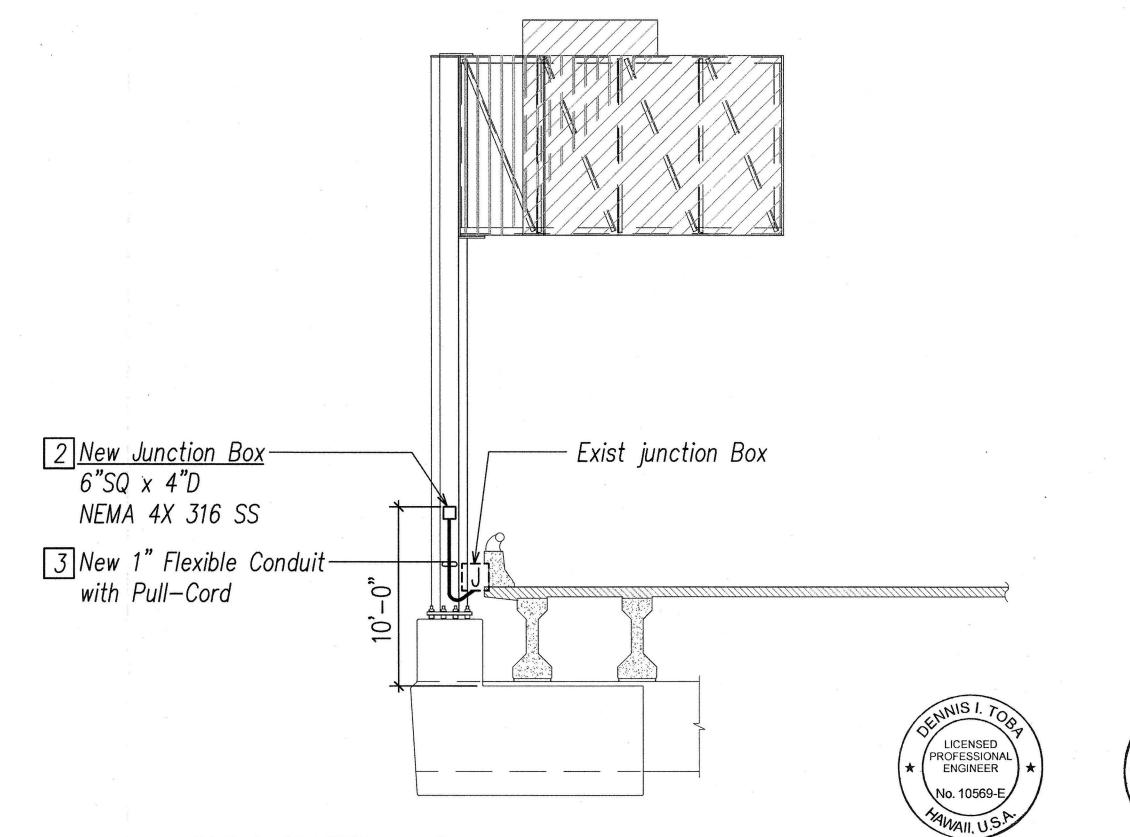
SIGN H1EB-112

DEMOLITION ELECTRICAL ELEVATION

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







SIGN H1EB-112

REVISED ELECTRICAL ELEVATION

Scale: 3/16"=1'-0" (Back Side of Sign Shown)



PRINCIPAL-IN-CHARGE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

LIGHT 12016.05.18

EXPIRATION DATE OF THE LICENSE 4/30/2018 EXPIRATION DATE OF THE LICENSE 4/30/2018

4' 2' 0 4' 8' 12'

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

8' 4' 0 8' 16' 24'

SCALE: 1/8"=1'-0"

GRAPHIC SCALE

FISCAL SHEET NO.

FED. AID PROJ. NO.

HAW. NH-IM-0300(142) 2016

1 Remove Conductors from Sign Lighting

Hot-Cap, Coil and Stow Conductors

Do Not Block Handhole Cover Plate

to Junction Box. Pullback and

in Junction Box as Required.

See Drawing E2.1 for Conduit

Nipple Details. Provide New Stainless Steel Mounting

Hardware as Required.

on Sign Post.

FED. ROAD DIST. NO.

Note(s):

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EMOLITION AND REVISED ELECTRICATION

DEMOLITION AND REVISED ELECTRICAL
PLANS AND ELEVATIONS 1

INTERSTATE ROUTE H-1, H-2 AND H201

DESTINATION SIGN UPGRADE / REPLACEMENT, PHASE 2

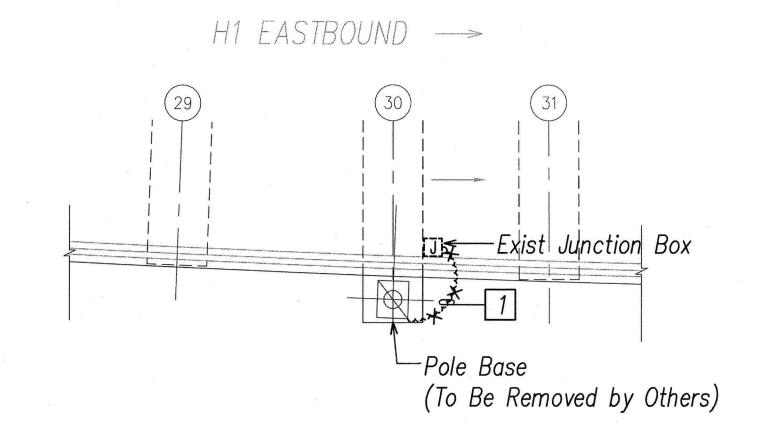
Federal Aid Project NO. - NH-IM-0300(142)

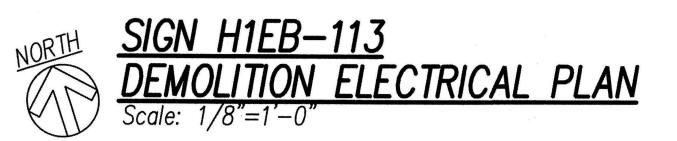
Scale: As Shown Date: May 2016

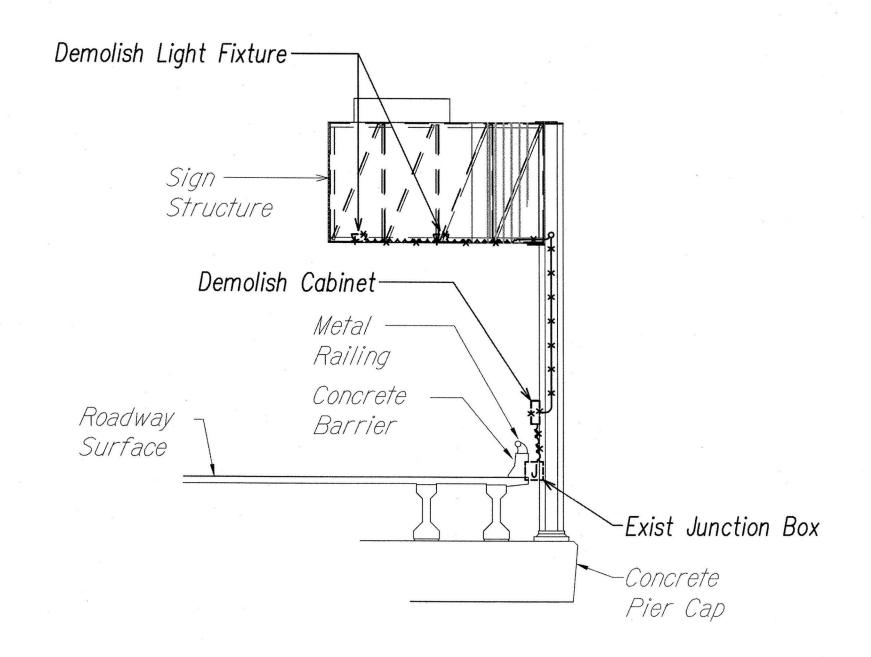
SHEET No. E3.1 OF 191 SHEETS

FILE PATH: Z:\Acad\PROJECTS\215035\E03001_215035_Elec Plan 1.dwg CAD USER: SYIM PLOT DATE: 2016.05.18 XREFS:_x09\43 New_x2239_S3-1_demo_x2239_s3-1_x2239_S4-1 thru S4-24_LAST SAVE: 05/17/16 @ 16:14:45 BY: SSY PLOT SC 1/8"=1"

89





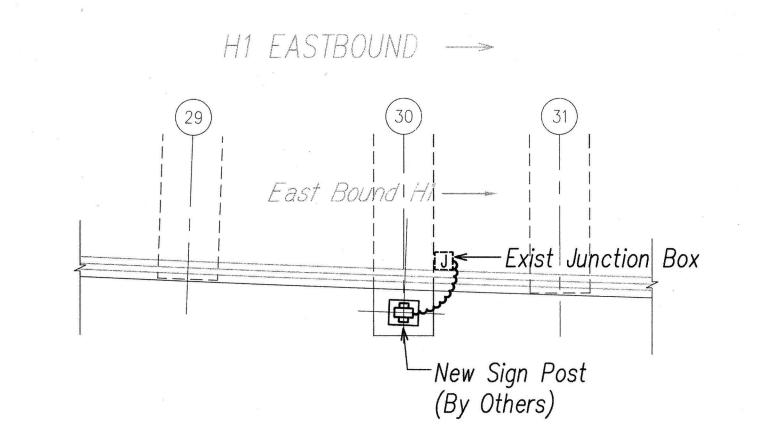


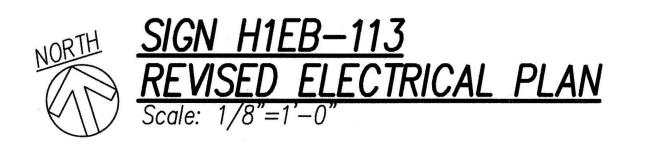
SIGN H1EB-113

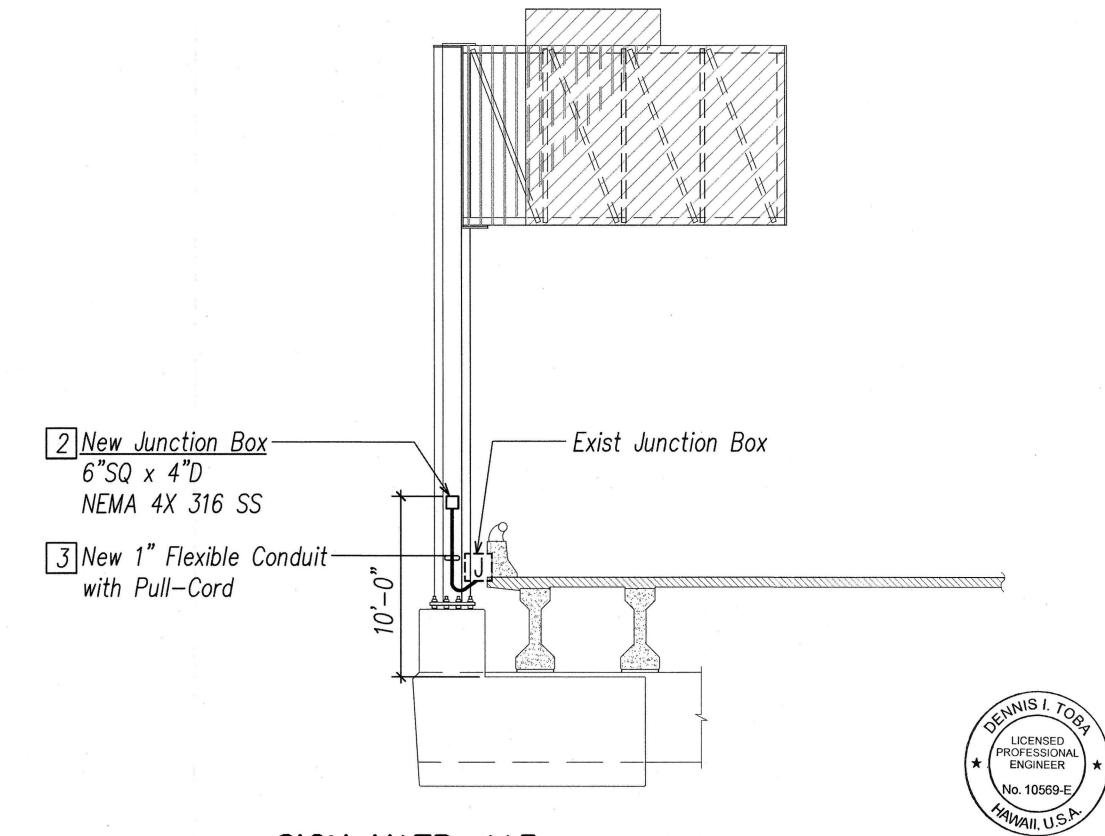
DEMOLITION ELECTRICAL ELEVATION

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

FILE PATH: Z:\Acad\PROJECTS\215035\E03002_215035_Elec Plan 2.dwg CAD USER: SYM PLOT DATE: 2016.05.18 XREFS:[_x2239_S3-1_DEMO]_x2239_s3-1[_x2239_S4-1 thru S4-24]







SIGN H1EB-113 REVISED ELECTRICAL ELEVATION

Scale: 3/16"=1'-0" (Back Side of Sign Shown)



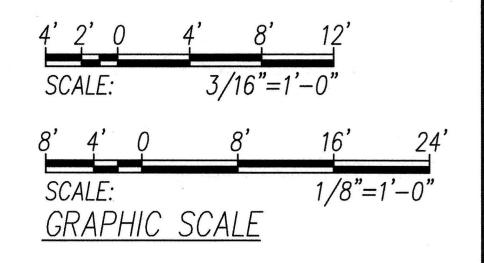
EXPIRATION DATE OF THE LICENSE 4/30/2018 EXPIRATION DATE OF THE LICENSE 4/30/2018

PRINCIPAL-IN-CHARGE

TOTAL SHEETS FED. ROAD DIST. NO. FISCAL SHEET NO. FED. AID PROJ. NO. STATE HAW. NH-IM-0300(142) 2016 90 HAWAII

Note(s):

- Remove Conductors from Sign Lighting to Junction Box. Pullback and Hot—Cap, Coil and Stow Conductors in Junction Box as Required.
- See Drawing E2.1 for Conduit Nipple Details. Provide New Stainless Steel Mounting Hardware as Required.
- Do Not Block Handhole Cover Plate on Sign Post.



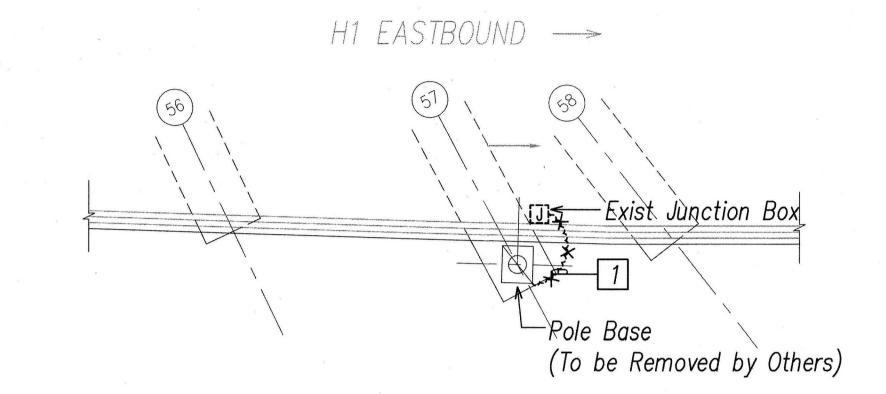
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

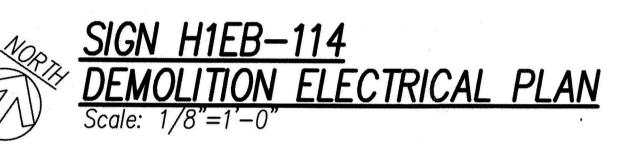
DEMOLITION AND REVISED ELECTRICAL PLANS AND ELEVATIONS 2

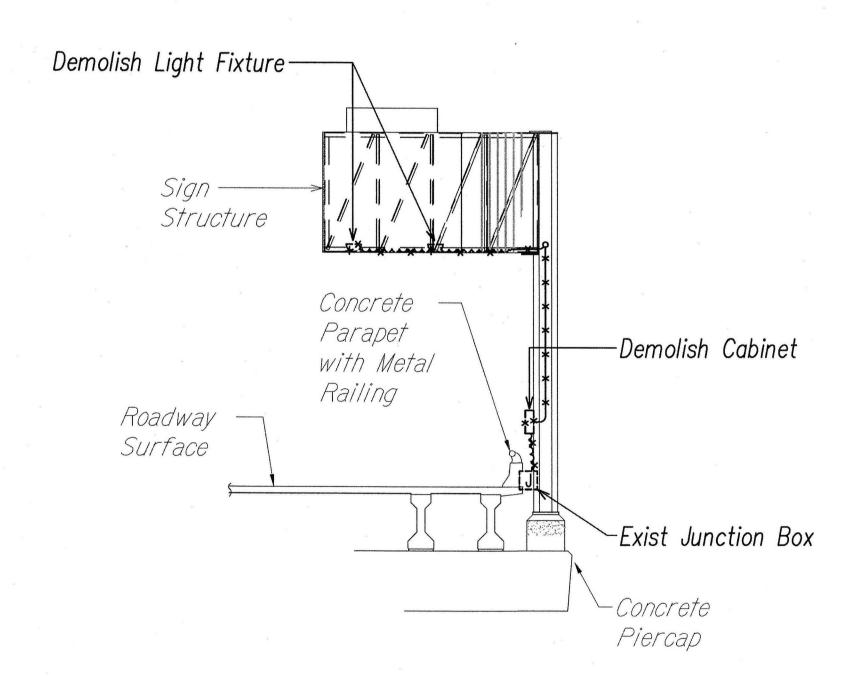
INTERSTATE ROUTE H-1, H-2 AND H201 DESTINATION SIGN UPGRADE / REPLACEMENT, PHASE 2 Federal Aid Project NO. - NH-IM-0300(142)

Scale: As Shown Date: May 2016

SHEET No. E3.2 OF 191 SHEETS



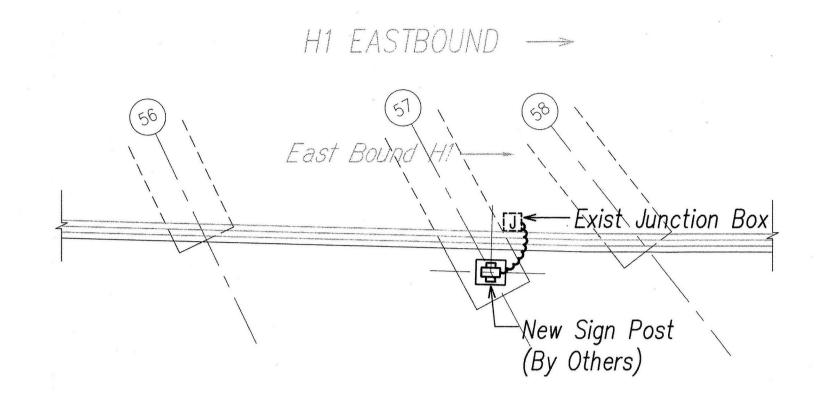


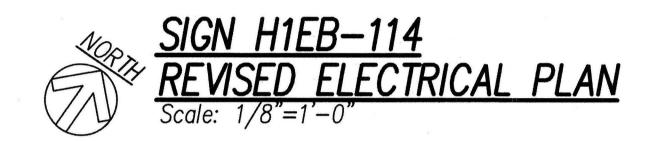


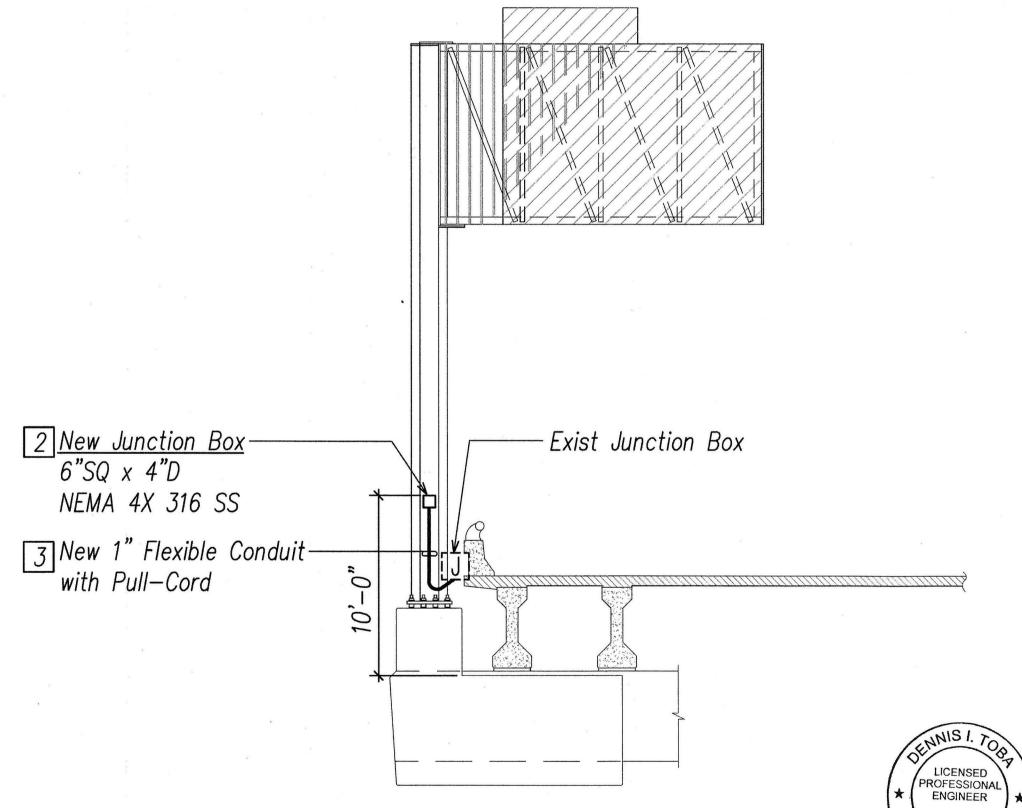
SIGN H1EB-114

DEMOLITION ELECTRICAL ELEVATION

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



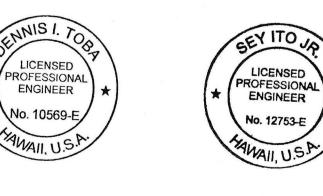




SIGN H1EB-114

REVISED ELECTRICAL ELEVATION

Scale: 3/16"=1'-0" (Back Side of Sign Shown)



PRINCIPAL—IN—CHARGE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

2016 05 18

EXPIRATION DATE OF THE LICENSE 4/30/2018 EXPIRATION DATE OF THE LICENSE 4/30/2018

in Junction Box as Required.

See Drawing E2.1 for Conduit
Nipple Details. Provide New
Stainless Steel Mounting
Hardware as Required.

FED. AID PROJ. NO.

HAW. NH-IM-0300(142) 2016

1 Remove Conductors from Sign Lighting

Hot-Cap, Coil and Stow Conductors

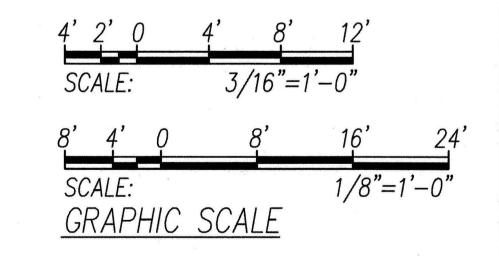
to Junction Box. Pullback and

FISCAL SHEET NO.

FED. ROAD DIST. NO.

Note(s):

3 Do Not Block Handhole Cover Plate on Sign Post.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION AND REVISED ELECTRICAL PLANS AND ELEVATIONS 3

INTERSTATE ROUTE H-1, H-2 AND H201

DESTINATION SIGN UPGRADE / REPLACEMENT, PHASE 2

Federal Aid Project NO. - NH-IM-0300(142)

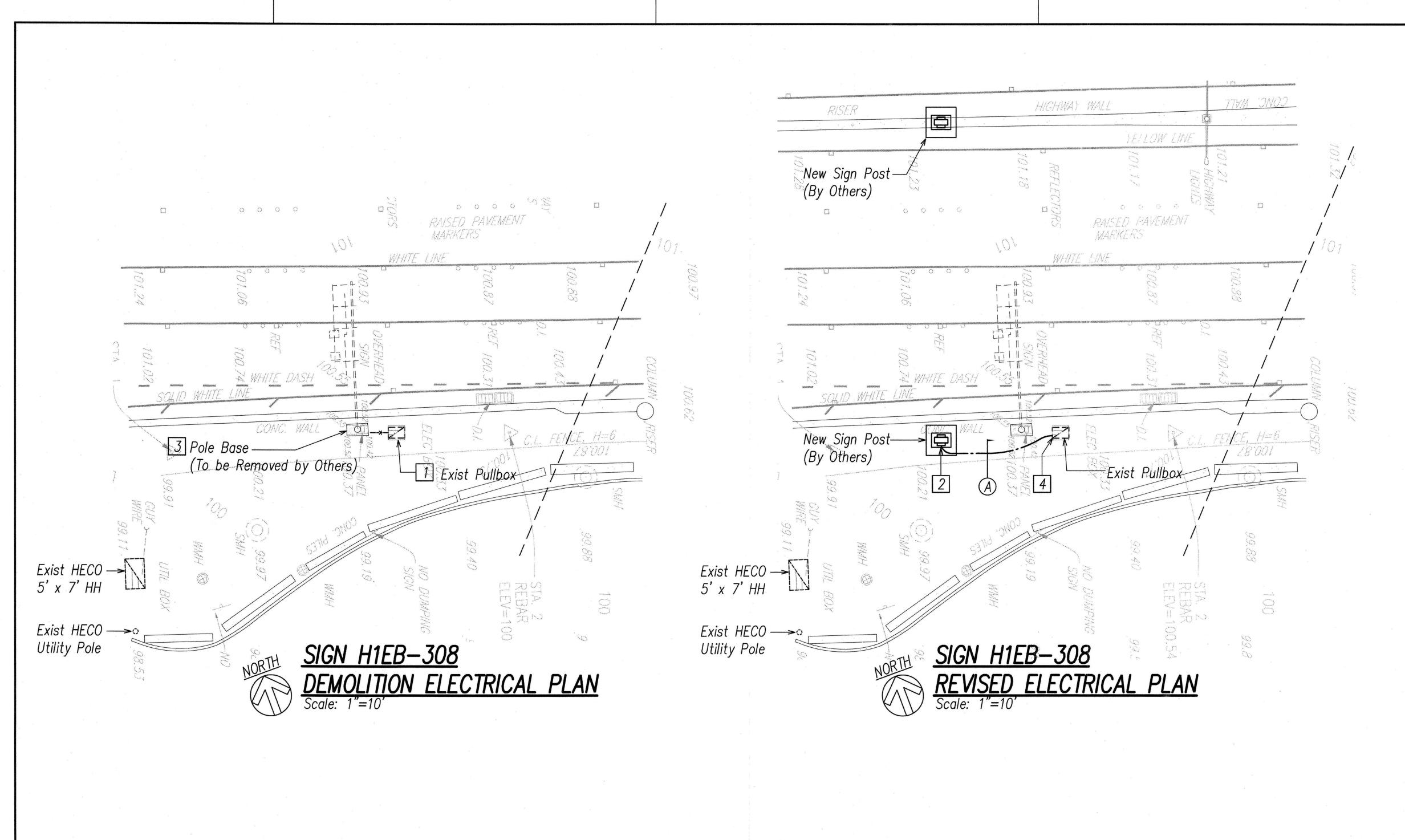
Scale: As Shown Date: May 2016

--- Date. may 2

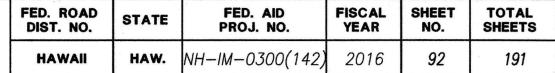
SHEET No. E3.3 OF 191 SHEETS

FILE PATH: Z:\Acad\PROJECTS\215035\E03003_215035_Elec Plan 3.dwg CAD USER: SYIM PLOT DATE: 2016.05.18 XREFS:_x2239_S3-1_DEMO_x2239_s3-1_x2239_S4-1 thru S4-24_LAST SAVE: 05/17/16 • 16:23:06 BY: SSY PLOT SC 1/8"=1"

91

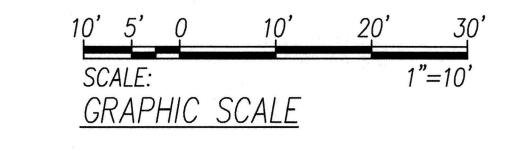


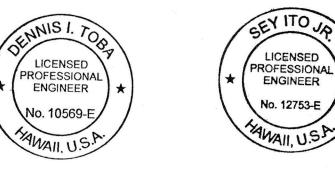
FILE PATH: Z:\Acad\PROJECTS\215035\E03004_215035_Elec Plan 4.dwg CAD USER: SYM PLOT DATE: 2016.05.18 XREFS:_x15062 PUNAHOU\|
LAST SAVE: 05/17/16 6 16:24:39 BY: SSY PLOT SC 1=10.000000



General Sheet Note(s):

- 1 Pullback And Hot—Cap, Coil and Stow Conductors in Pullbox as Required.
- Route Conduit and Pull—Cord within View of Handhole Cover Plate on Sign Post.
- 3 Patch and Seal Conduit Opening.
- 4 Break into Exist Pullbox for Conduit Penetration.





THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

EXPIRATION DATE OF THE LICENSE 4/30/2018

ME OR UNDER MY SUPERVISION

AUTOMOTION DATE OF THE LICENSE 4/30/2018

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

<u>DEMOLITION AND REVISED ELECTRICAL</u> <u>PLANS AND ELEVATIONS 4</u>

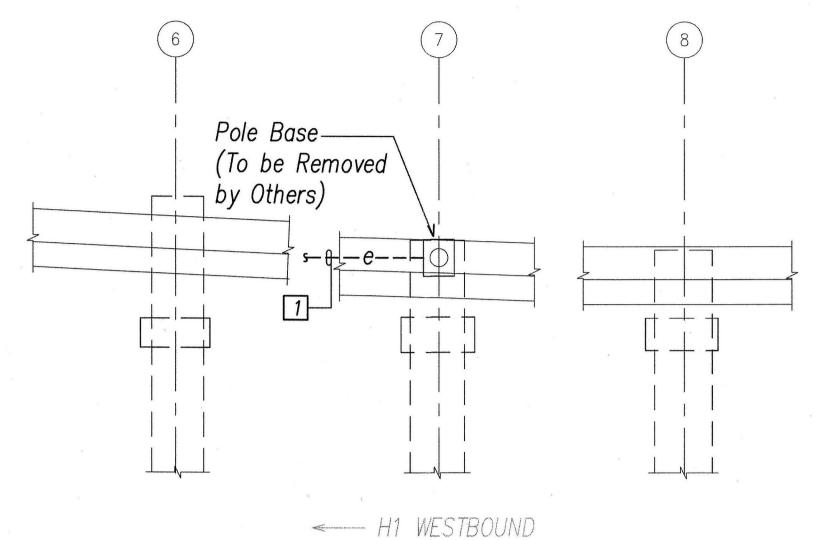
INTERSTATE ROUTE H-1, H-2 AND H201

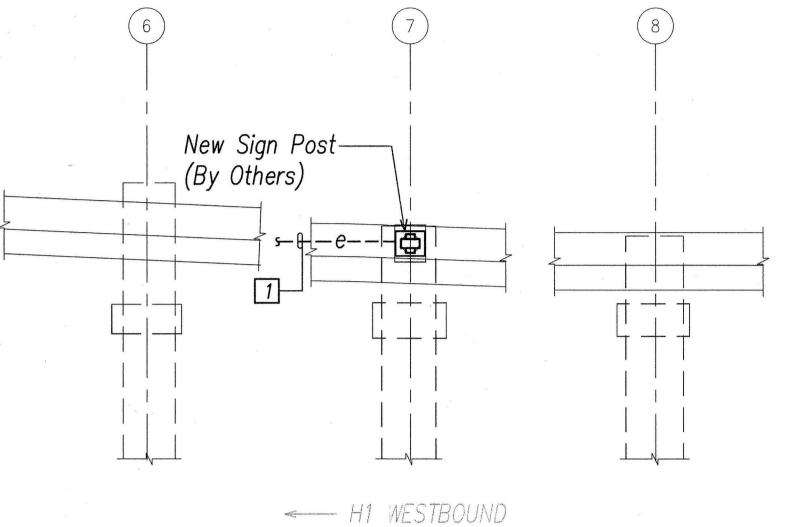
DESTINATION SIGN UPGRADE / REPLACEMENT, PHASE 2

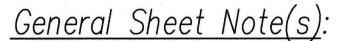
<u>Federal Aid Project NO. - NH-IM-0300(142)</u> Scale: As Shown Date: May 2016

SHEET No. E3.4 OF 191 SHEETS

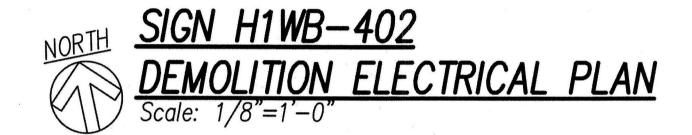


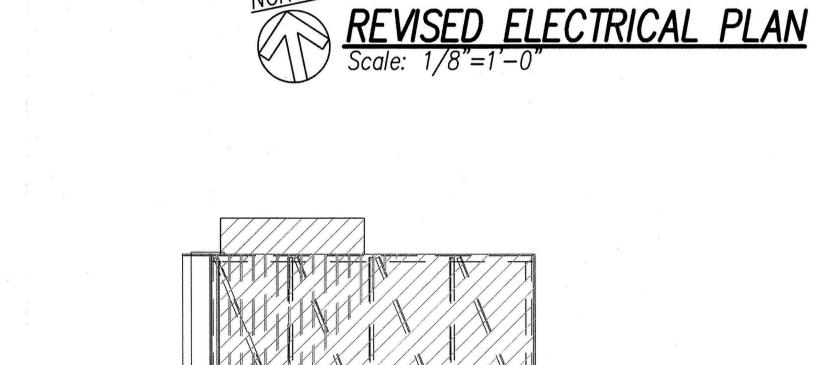




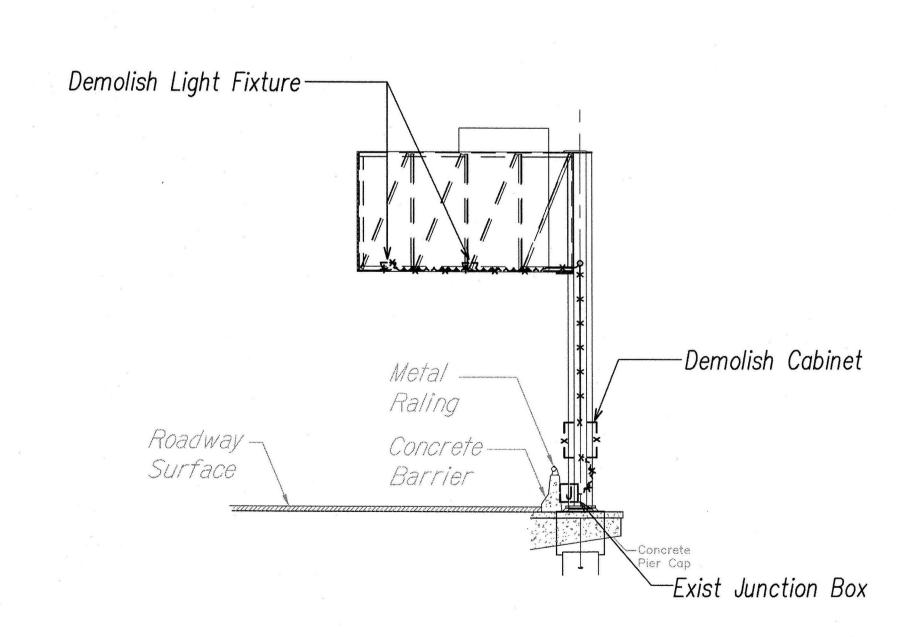


- 1 Remove Conductors from Sign Lighting to Junction Box. Pullback and Hot—Cap, Coil and Stow Conductors in Junction Box as Required.
- 2 See Drawing E2.1 for Nipple Details.
 Provide New Stainless Steel Hardware as Required.
- 3 Do Not Block Handhole Cover Plate on Sign Post.



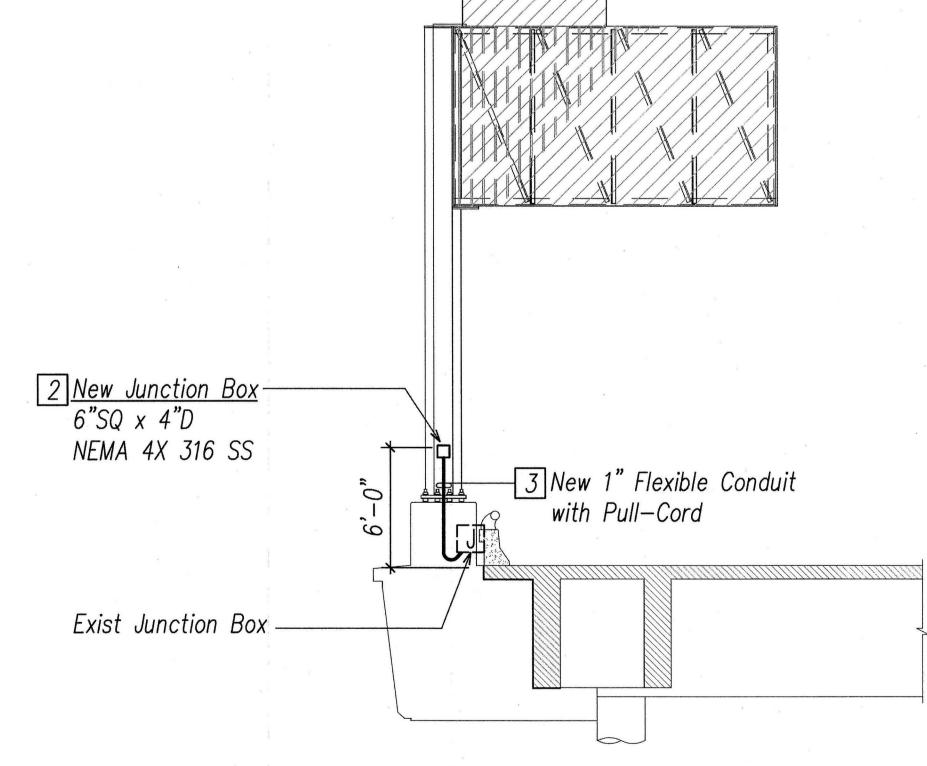


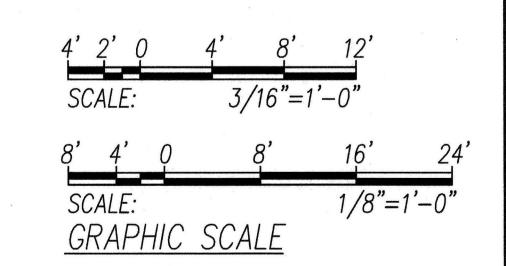
SIGN H1WB-402



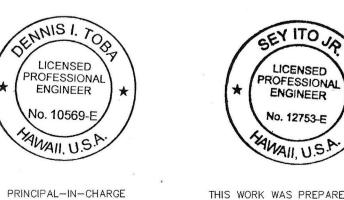
SIGN H1WB-402

DEMOLITION ELECTRICAL ELEVATION









PRINCIPAL—IN—CHARGE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

2016.05.18

EXPIRATION DATE OF THE LICENSE 4/30/2018

DEMOLITION AND REVISED ELECTRICAL

PLANS AND ELEVATIONS 5

INTERSTATE ROUTE H-1, H-2 AND H201

DESTINATION SIGN UPGRADE / REPLACEMENT, PHASE 2

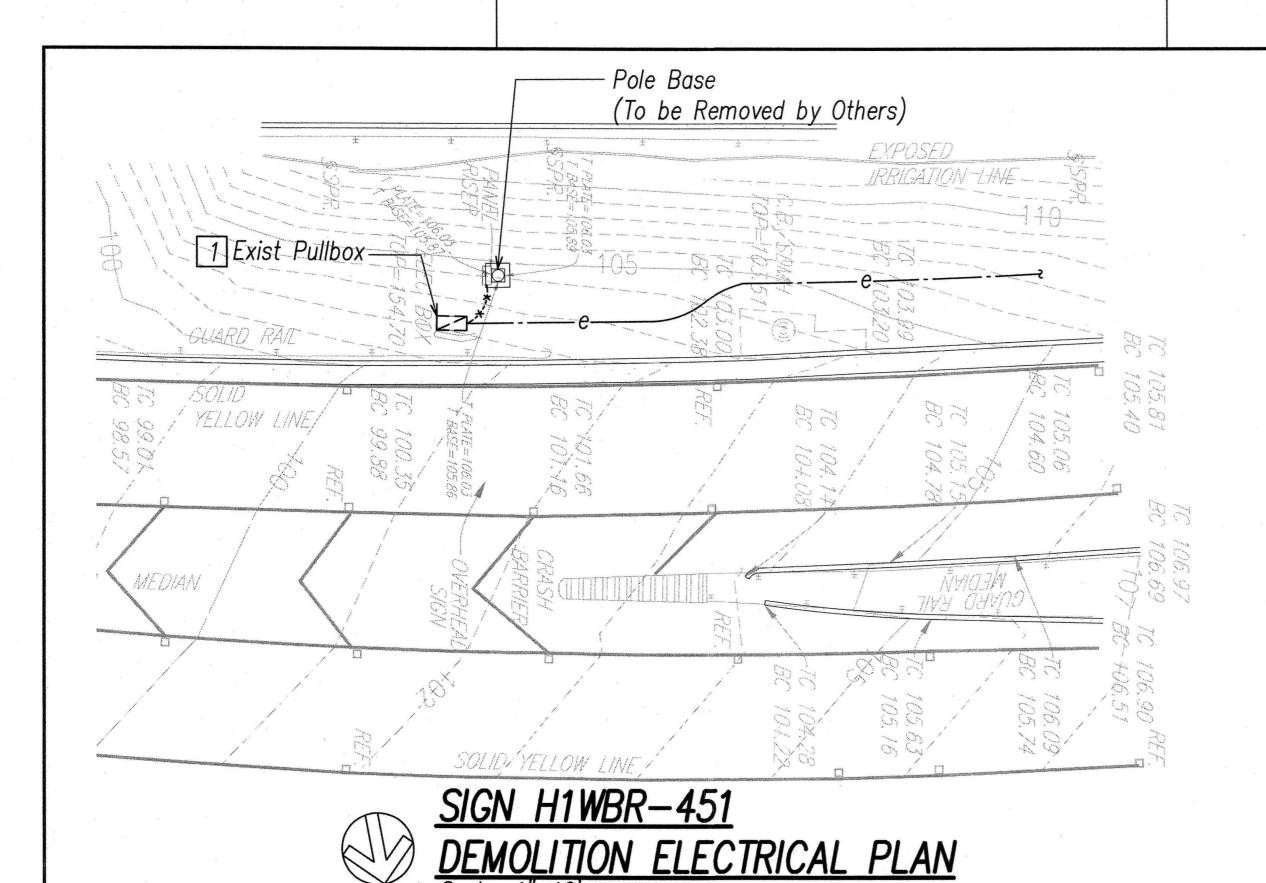
Federal Aid Project NO. - NH-IM-0300(142)

Scale: As Shown Date: May 2016

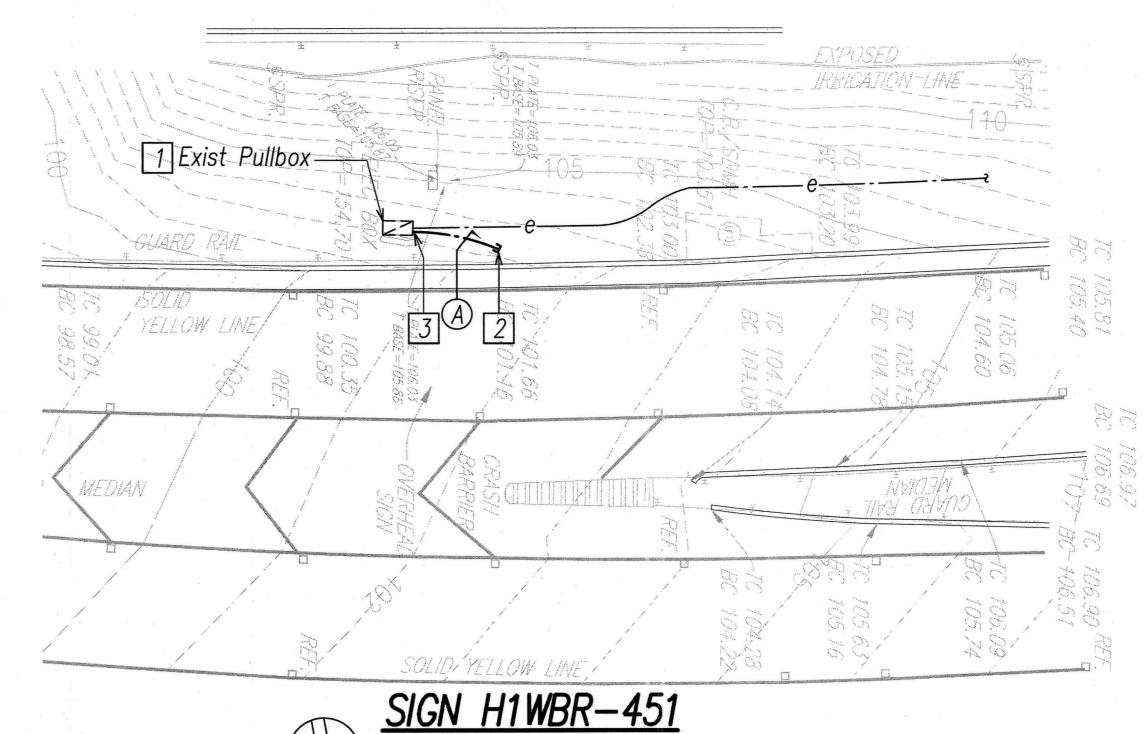
SHEET No. E3.5 OF 191 SHEETS

FILE PATH: Z:\Acod\PROJECTS\215035\E03005_215035_Elec Plan 5.dwg CAD USER: SYIM PLOT DATE: 2016.05.18 XREFS:\[_x2239_S3-1\] DEMO\[_x09143-2\)\rm RHA-HIEB-251\[_x2239_S3-1\]\[_x2239_S3-1\]\[_x2239_S4-1\] thru S4-24\[_LAST SAVE: 05/17/16 \(\dot\) 16: 26: 05 BY: SSY PLOT SC 1/8"=1"

93



FILE PATH: Z:\Acad\PROJECTS\215035\E03006_215035_Elec Plan 6.dwg CAD USER: SYIM PLOT DATE: 2016.05.18 XREFS:_x04143-10 DEMO|xRHA-add-to-09143-10_x15063 WAIALAE|
LAST SAVE: 05/17/16 @ 16:27:02 BY: SSY PLOT SC 1=10.000000



REVISED ELECTRICAL PLAN
Scale: 1"=10"

FISCAL SHEET NO. TOTAL SHEETS FED. ROAD DIST. NO. FED. AID PROJ. NO. STATE 2016 HAW. NH-IM-0300(142)

General Sheet Note(s):

- 1 Pullback And Hot—Cap, Coil and Stow Conductors in Pullbox as Required.
- Provide Concrete Conduit Stub Out Marker.
- Break Into Exist Pullbox for Conduit Penetration.



LICENSED PROFESSIONAL ENGINEER

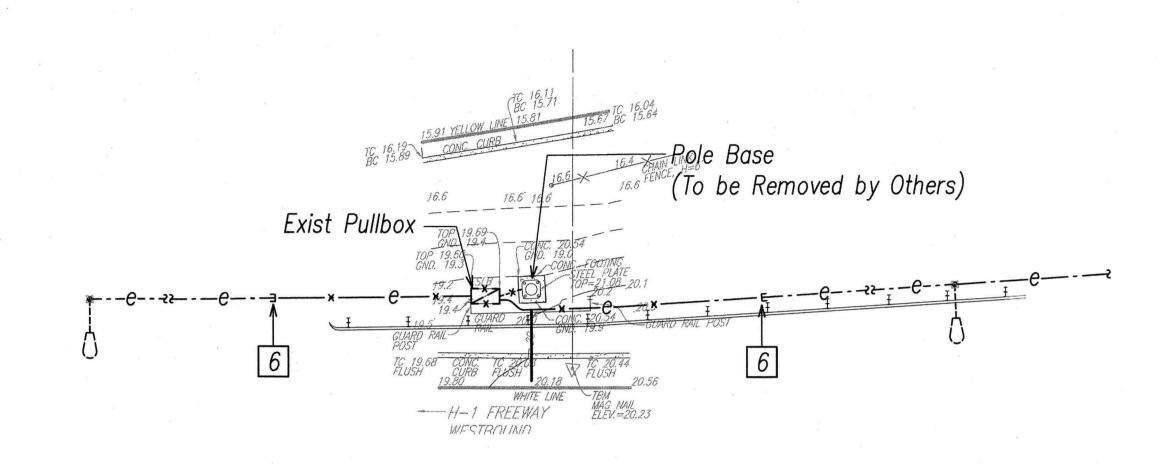
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

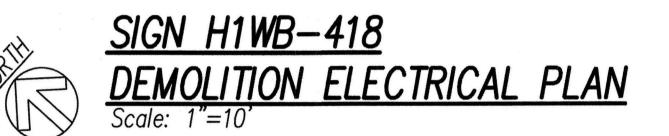
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION DEMOLITION AND REVISED ELECTRICAL

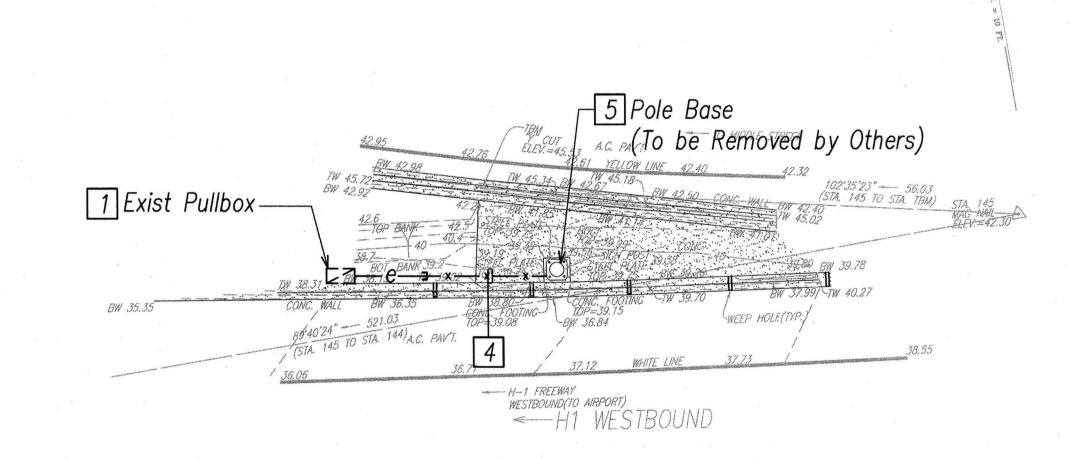
PLANS 6

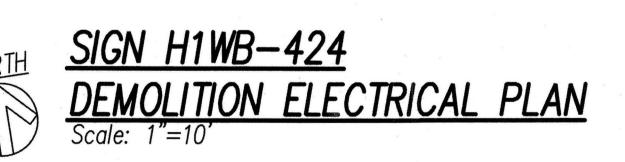
<u>INTERSTATE ROUTE H-1, H-2 AND H201</u> <u>DESTINATION SIGN UPGRADE / REPLACEMENT, PHASE 2</u> Federal Aid Project NO. - NH-IM-0300(142) Scale: As Shown Date: May 2016

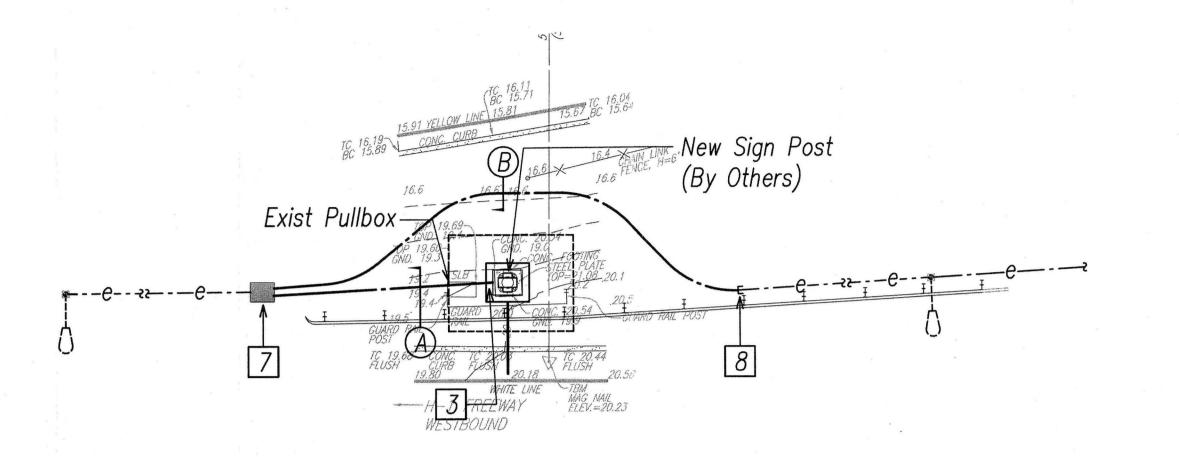
SHEET No. E3.6 OF 191 SHEETS

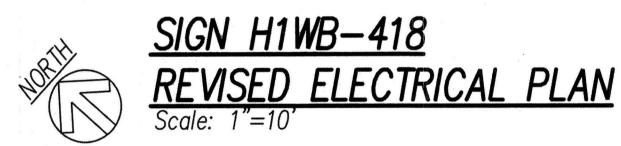


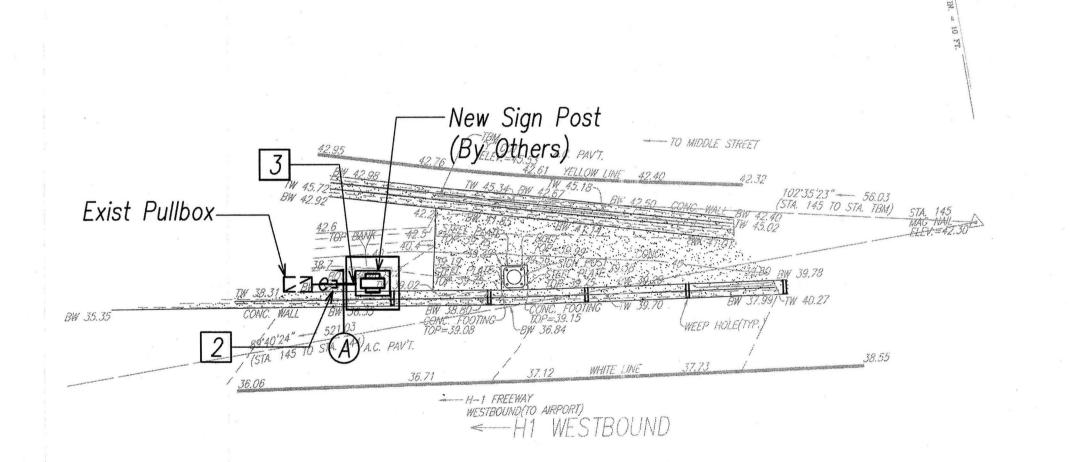




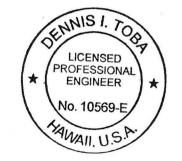


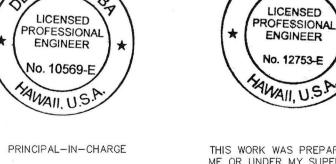


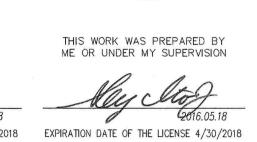












STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

FISCAL SHEET NO.

FED. AID PROJ. NO.

General Sheet Note(s):

Stub Out.

Post.

HAW. NH-IM-0300(142) 2016

1 Pullback And Hot-Cap, Coil and Stow

Conductors in Pullbox as Required.

Connect New Conduit to Exist Conduit

Route Conduit and Pull-Cord within

Abandon Conduit in Place.

Highway Light Pole.

Highway Light Pole.

5 Patch and Seal Conduit Opening..

View of Handhole Cover plate on Sign

Cut Conduit and Remove Conductors.

7 Intercept Exist Conduit with New Pullbox

and Route New Conductors to Exist

8 Intercept Exist Conduit with New Conduit

and Route New Conductors to Exist

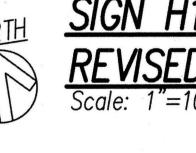
FED. ROAD DIST. NO.

DEMOLITION AND REVISED ELECTRICAL PLANS 7

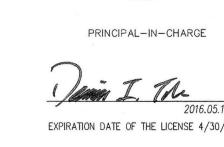
INTERSTATE ROUTE H-1, H-2 AND H201 DESTINATION SIGN UPGRADE / REPLACEMENT, PHASE 2

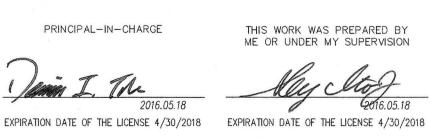
Federal Aid Project NO. - NH-IM-0300(142) Date: May 2016 Scale: As Shown

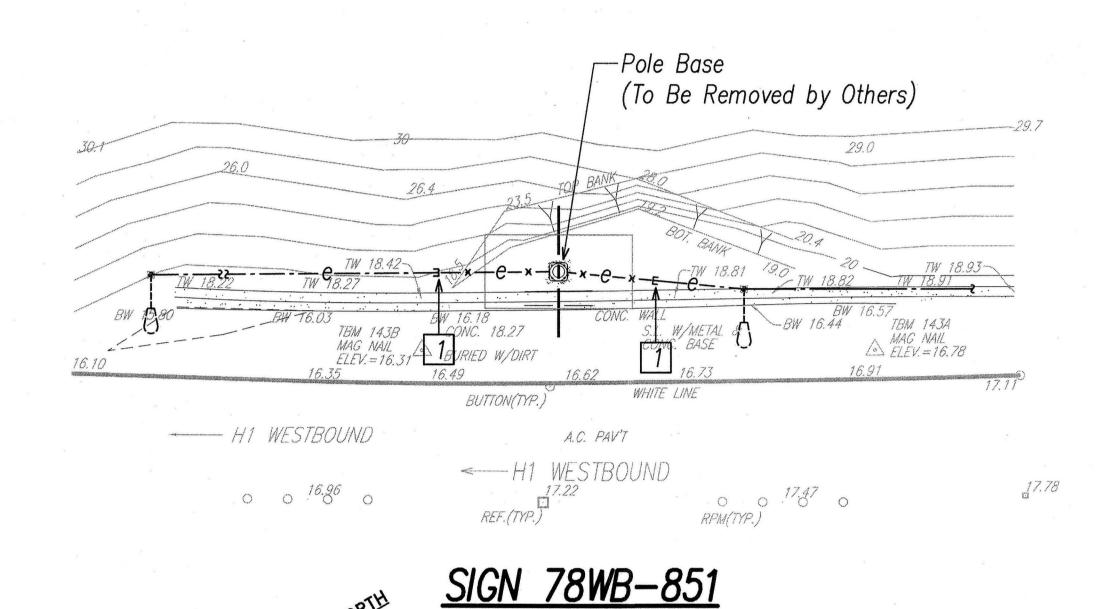
SHEET No. E3.7 OF 191 SHEETS



GRAPHIC SCALE

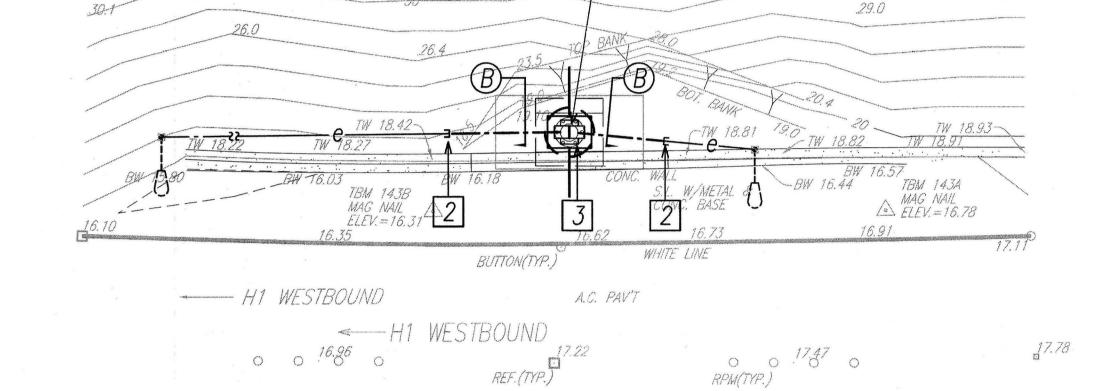






DEMOLITION ELECTRICAL PLAN

Scale: 1"=10"



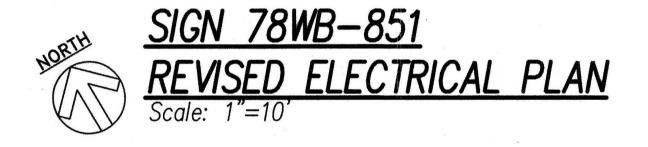
New Sign Post

(By Others)

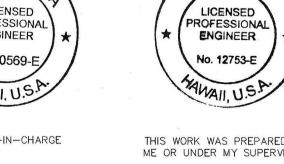
FISCAL SHEET TOTAL SHEETS FED. AID PROJ. NO. FED. ROAD DIST. NO. STATE NH-IM-0300(142) 2016

General Sheet Note(s):

- 1 Cut Conduit, Pull Back Conductors, Coil, Protect and Stow for Reconnection.
- Intercept Exist Conduit with New Conduit and Route Conductors to New Sign Post and Splice.
- Splice Conductors in New Sign Post.







THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION EXPIRATION DATE OF THE LICENSE 4/30/2018 EXPIRATION DATE OF THE LICENSE 4/30/2018 STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLANS 8

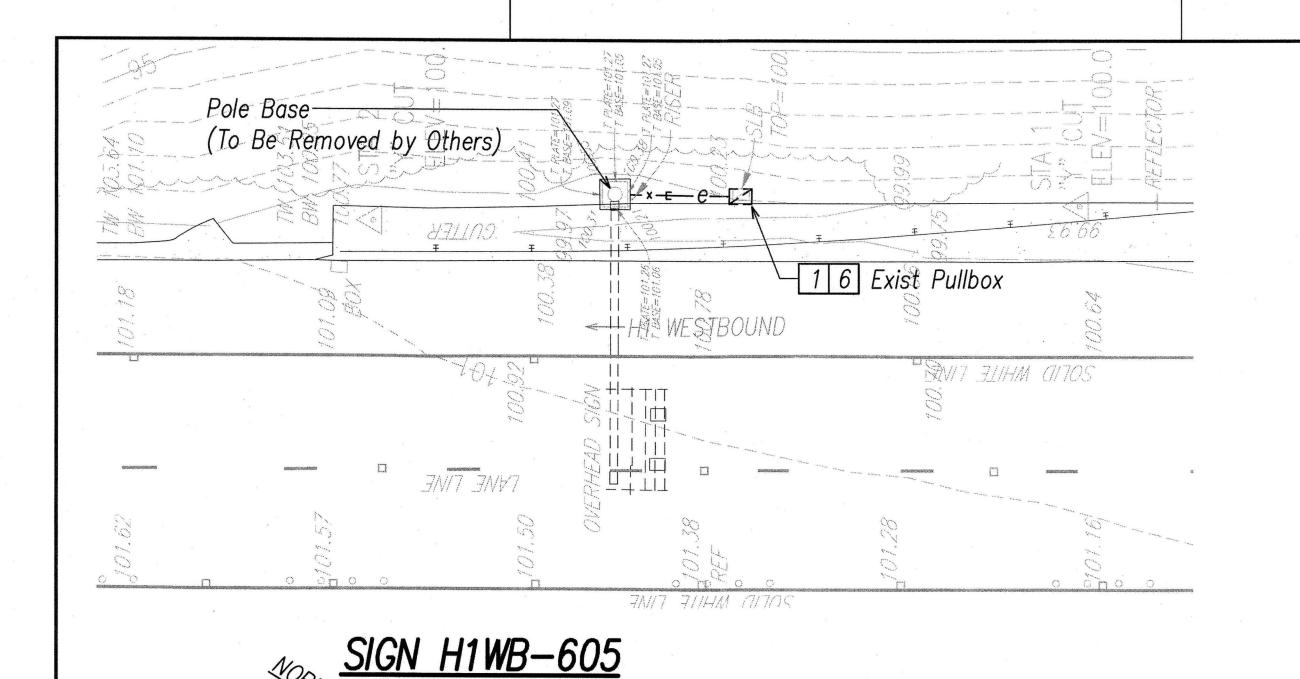
INTERSTATE ROUTE H-1, H-2 AND H201 DESTINATION SIGN UPGRADE / REPLACEMENT, PHASE 2 Federal Aid Project NO. - NH-IM-0300(142)

Scale: As Shown

SHEET No. E3.8 OF 191 SHEETS

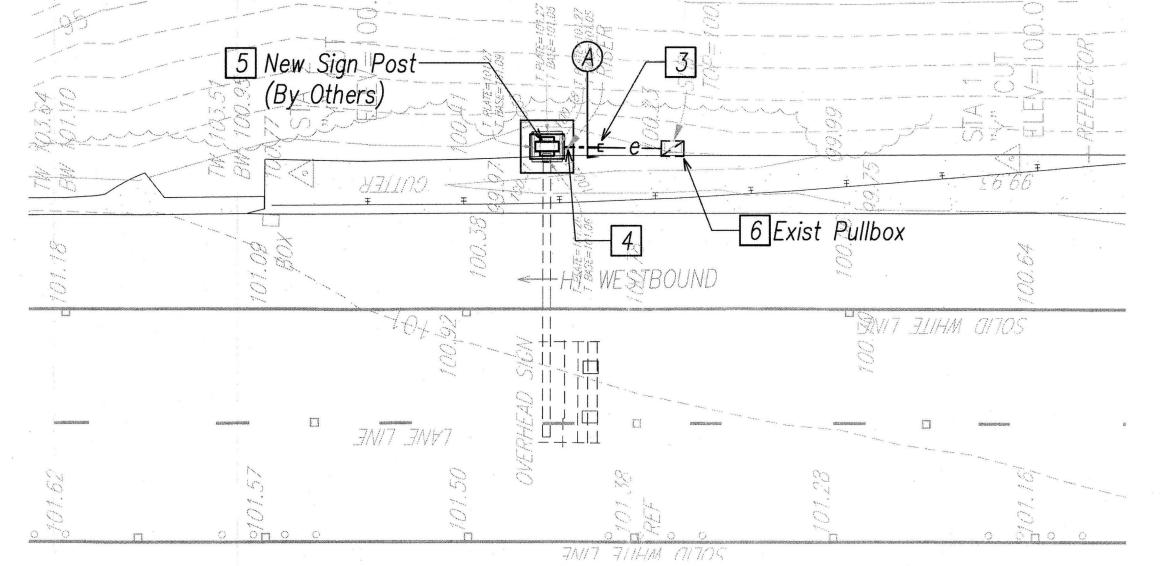
Date: May 2016

GRAPHIC SCALE



DEMOLITION ELECTRICAL PLAN

FILE PATH: Z:\Acad\PROJECTS\215035\E03009_215035_Elec Plan 9.dwg CAD USER: SYM PLOT DATE: 2016.05.18 XREFS:_x09143-16 DEMO|xrha-add-to-09143-16|xrha-add-to-09143-16-2_x09143-16_x15061 EWA SIGN, LAST SAVE: 05/17/16 @ 16:30:39 BY: SSY PLOT SC 1=10.000000



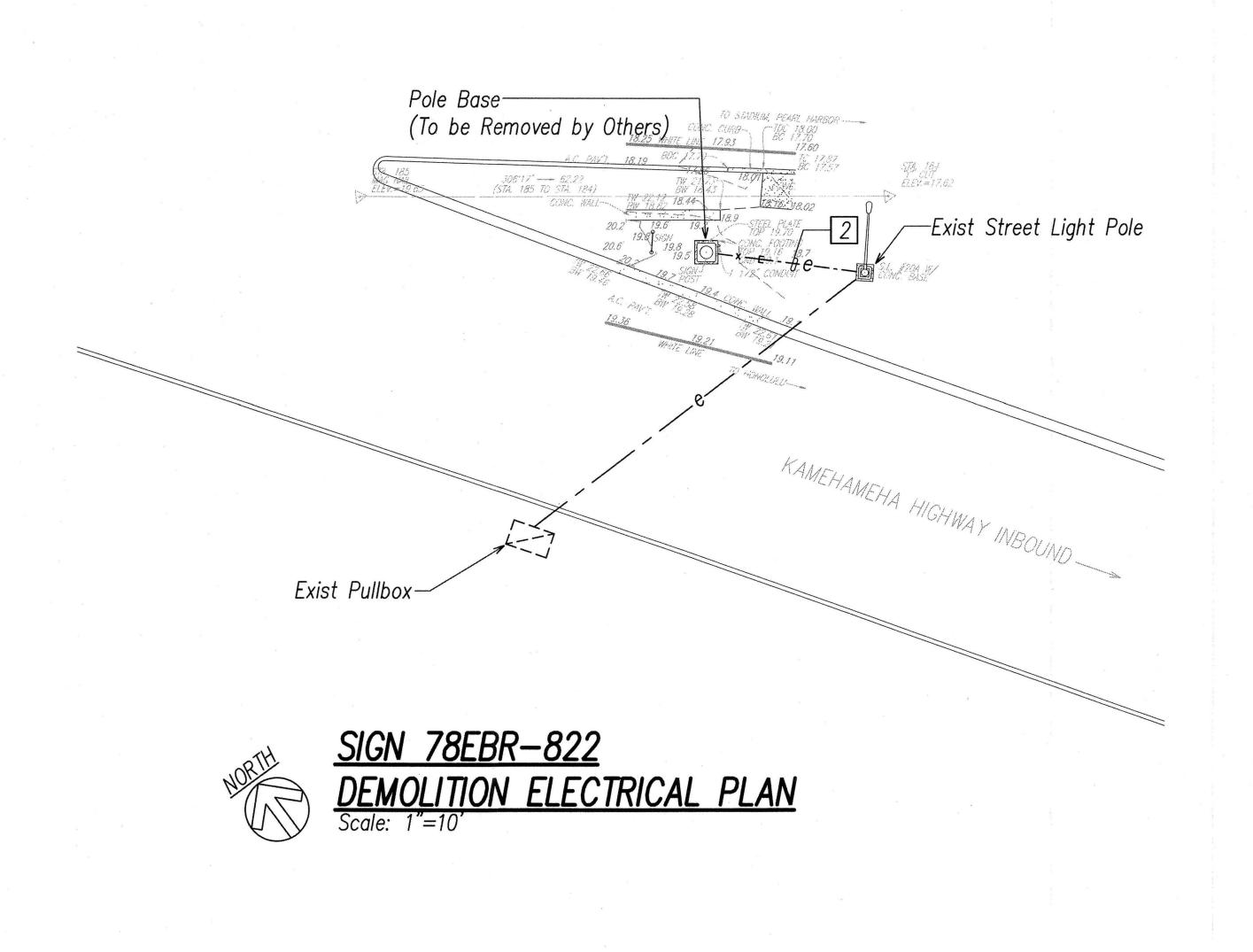


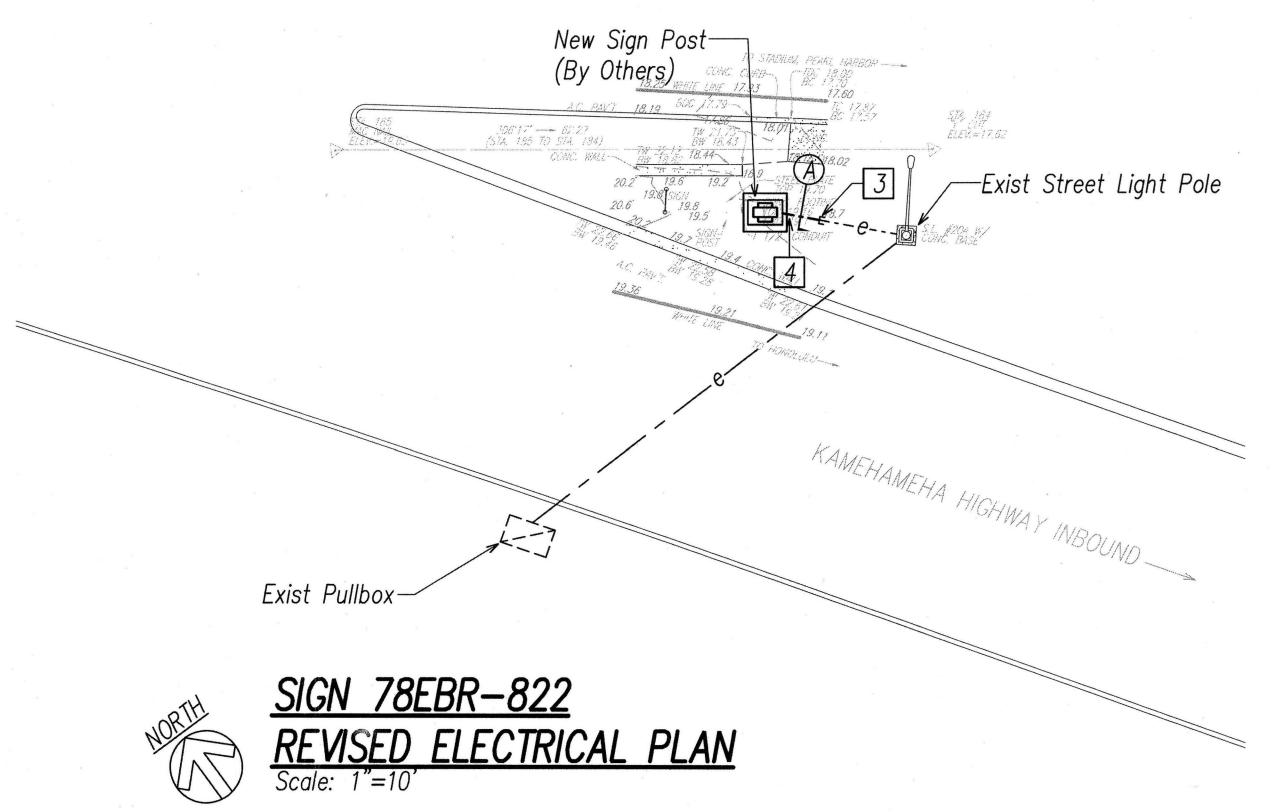
GRAPHIC SCALE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-IM-0300(142)	2016	97	191

General Sheet Note(s):

- 1 Pullback And Hot-Cap, Coil and Stow Conductors in Pullbox as Required.
- Remove Conductors from Sign Lighting to Street Light Pole. Provide Hot Cap as Required in Adjacent Street Light Pole.
- Connect New Conduit to Exist Conduit Stub Out.
- Route Conduit and Pull-Cord within View of Handhole Cover Plate on Sign Post.
- East Bound Sign Post not shown on Plan.
- Provide Temporary Supports as Required During Demolition and Installation of New Sign Post Footing.







PRINCIPAL-IN-CHARGE





THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION AND REVISED ELECTRICAL PLANS 9

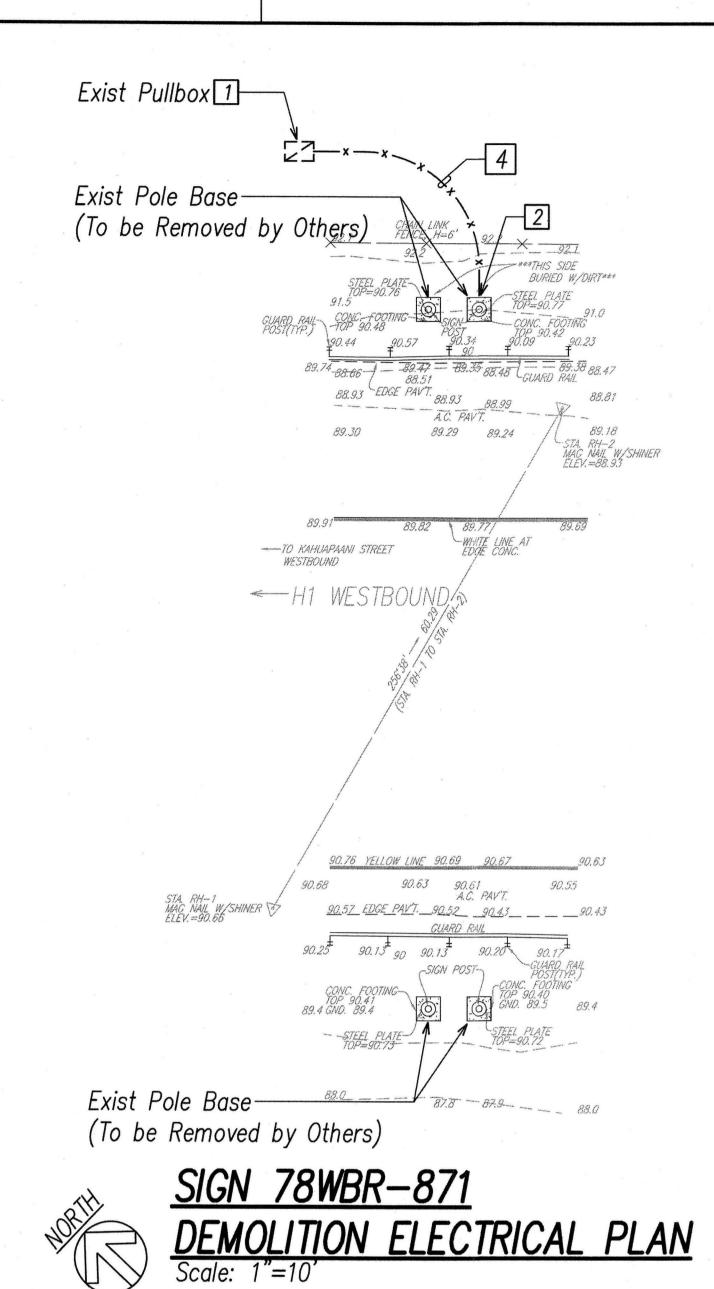
INTERSTATE ROUTE H-1, H-2 AND H201 DESTINATION SIGN UPGRADE / REPLACEMENT, PHASE 2 Federal Aid Project NO. - NH-IM-0300(142)

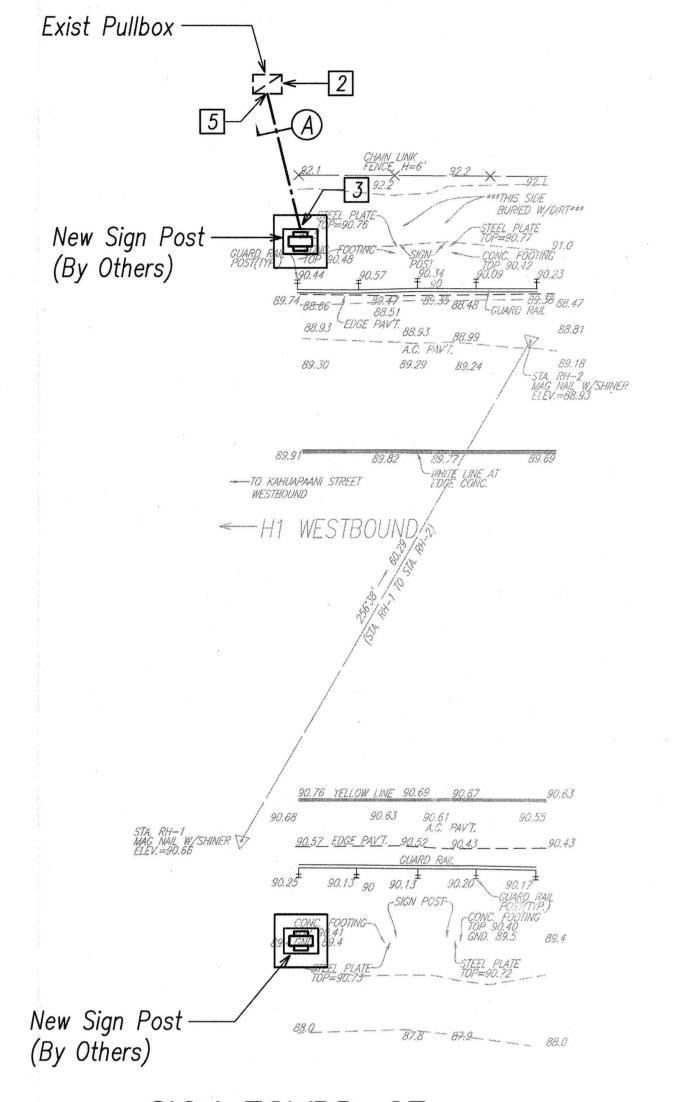
Scale: As Shown

EXPIRATION DATE OF THE LICENSE 4/30/2018

SHEET No. E3.9 OF 191 SHEETS

Date: May 2016

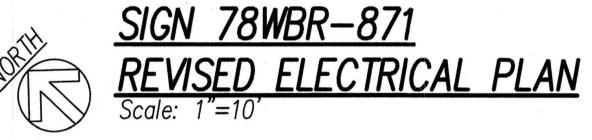


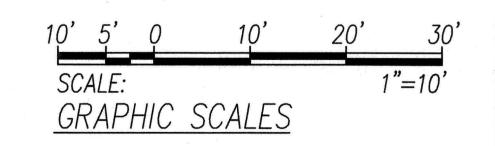


FISCAL SHEET TOTAL SHEETS FED. ROAD DIST. NO. FED. AID PROJ. NO. STATE HAW. NH-IM-0300(142)

General Sheet Note(s):

- Pullback And Hot—Cap, Coil and Stow Conductors in Pullbox as Required.
- Patch and Seal Conduit Opening.
- Route Conduit and Pull—Cord within View of Handhole Cover Plate on Sign Post.
- Abandon Conduit in Place.
- Break into Exist Pullbox for Conduit Penetration.







PRINCIPAL-IN-CHARGE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

EXPIRATION DATE OF THE LICENSE 4/30/2018 EXPIRATION DATE OF THE LICENSE 4/30/2018

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION AND REVISED ELECTRICAL PLANS

INTERSTATE ROUTE H-1, H-2 AND H201 DESTINATION SIGN UPGRADE / REPLACEMENT, PHASE 2 Federal Aid Project NO. - NH-IM-0300(142) Scale: As Shown Date: May 2016

SHEET No. E3.10 OF 191 SHEETS