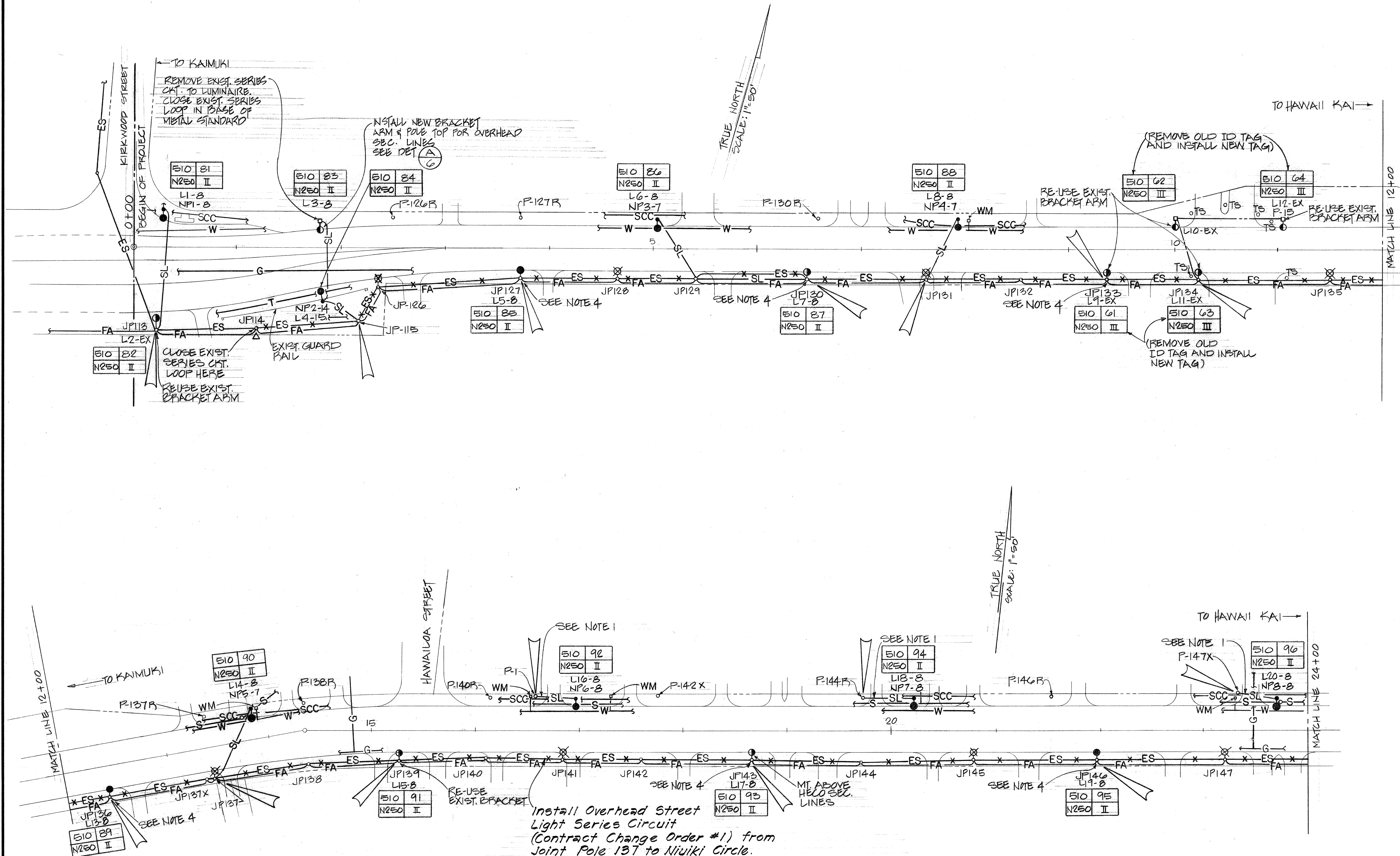


FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72C-01-75	1977	2	6

LEGEND

- EXISTING POLE
- NEW POLE, POLE HEIGHT AS INDICATED IN NOTES.
- TS EXISTING TRAFFIC SIGNAL POLE
- NEW 250W HIGHWAY LUMINAIRE AND NEW BRACKET ARM ON NEW POLE
- NEW 250W HIGHWAY LUMINAIRE AND NEW BRACKET ARM ON EXISTING POLE
- REPLACE EXISTING HIGHWAY LUMINAIRE WITH NEW 250W HIGHWAY LUMINAIRE AND NEW BRACKET ARM UNLESS OTHERWISE INDICATED ON PLAN
- EXISTING HIGHWAY LUMINAIRE ON EXISTING POLE TO BE REMOVED
- EXISTING HIGHWAY LUMINAIRE ON EXISTING POLE TO REMAIN
- EXISTING HIGHWAY LUMINAIRE ON METAL STANDARD
- REPLACE EXISTING HIGHWAY LUMINAIRE WITH NEW 250W HIGHWAY LUMINAIRE ON EXISTING BRACKET ARM AND METAL STANDARD UNLESS NEW BRACKET ARM IS INDICATED ON PLAN
- △ EXISTING STREET LIGHT TRANSFORMER
- SL — NEW OVERHEAD STREET LIGHT SECONDARY BY CONTRACTOR
- SCC — EXISTING ABANDONED SIGNAL COAXIAL BURIED CABLES
- G — ELECTRIC SERVICE POINT INDICATED
- T — EXISTING UNDERGROUND GAS LINES
- S — EXISTING UNDERGROUND TELEPHONE LINES
- — — EXISTING UNDERGROUND SEWER LINES
- W — EXISTING UNDERGROUND STREET LIGHT WIRING
- WM — EXISTING UNDERGROUND WATER LINES
- WM WATER METER BOX
- ← GUY AND ANCHOR, SEE DETAIL (F) 6
- JP JOINT POLE
- LI-15 LI = STREET LIGHT NO. 1; 15 = MAST ARM LENGTH
- LI-EX LI = STREET LIGHT NO. 1; EXIST. BRACKET ARM
- NPI-14 NPI = NEW POLE NO. 1
14 = SET POLE 14' FROM EDGE OF PAVEMENT
- ES — EXISTING OVERHEAD STREET LIGHT SERIES CIRCUIT TO REMAIN.
- * ES * — EXISTING OVERHEAD STREET LIGHT SERIES CIRCUIT TO BE REMOVED.
- FA — EXISTING FIRE ALARM OVERHEAD CIRCUIT TO REMAIN.
- HE — EXISTING HAWAIIAN ELECTRIC COMPANY OVERHEAD SECONDARY SERVICE DROP
- — — RIGHT OF WAY LINE
- — — EXISTING GUARD RAIL



GENERAL NOTES

- CONTRACTOR TO PROVIDE OVERHEAD STREET LIGHT SECONDARY (SLACK SPAN ACROSS ALL ROADWAY) TO HECO SERVICE POINT. LEAVE 3' COILED SLACK WIRES AT HECO'S SERVICE POINT. HECO TO MAKE FINAL CONNECTIONS. MINIMUM CLEARANCE OF SECONDARY TO BE 18 FEET ABOVE ROAD.
- ALL NEW POLES, NP, AS INDICATED BY SYMBOLS, TO BE 35' CLASS 3 AND INSTALLED BY CONTRACTOR.
- REMOVE STREET LIGHT CIRCUIT CROSSARM.
- CUT STREET LIGHT CIRCUIT CROSSARM AND REMOVE STREET LIGHT PORTION. SEE DET. (H) 6
- PAYMENT OF REMOVAL OF ALL EXISTING CROSSARMS, WIRING, LUMINAIRES AND EQUIPMENT SHALL BE INCIDENTAL TO THE VARIOUS CONTRACT ITEMS.
- REMOVE EXISTING STREET LIGHT LUMINAIRES, OVERHEAD STREET LIGHT CONDUCTORS, STREET LIGHT TRANSFORMERS AND ASSOCIATED PROTECTIVE EQUIPMENT AS INDICATED. WHEN REMOVING STREET LIGHT LUMINAIRES, REMOVE ASSOCIATED BALLASTS, WIRING AND SUPPORTS. SALVAGED LIGHTING EQUIPMENT SHALL BE HAULED TO PEARL CITY BASEYARD ON LEHUA AVENUE AS DIRECTED BY ENGINEER.
- EXISTING CABLES AND CONDUIT RISER ON POLES SHALL BE RELOCATED AS NECESSARY TO MAKE ROOM FOR THE NEW BRACKET ARMS. PAYMENT SHALL BE INCIDENTAL TO THE VARIOUS CONTRACT ITEMS.
- NEW OVERHEAD STREET LIGHT LINES SHALL NOT BE OVER PRIVATE PROPERTY UNLESS AIR EASEMENT HAS BEEN GRANTED FIRST.
- CONTRACTOR SHALL INSTALL ALL NEW LIGHTS ON THE NORTH SIDE OF HIGHWAY AND HAVE HECO ENERGIZE THEM BEFORE REMOVING ANY EXISTING STREET LIGHTS ON THE SOUTH SIDE OF HIGHWAY. CONTRACTOR SHALL THEN START REMOVAL AND INSTALLATION WORK OF STREET LIGHTS ON SOUTH SIDE OF HIGHWAY BEGINNING FROM RETURN LOOP END OF STREET LIGHT SERIES CIRCUIT AND WORK TOWARDS STREET LIGHT REGULATOR. SERIES CIRCUIT RETURN LOOP SHALL BE CLOSED AT EACH EXISTING POLE LOCATION TO KEEP ALL OTHER EXISTING STREET LIGHTS OPERATIONAL. CONTRACTOR TO COORDINATE ENERGIZING OF NEW STREET LIGHTS ON SOUTH SIDE OF HIGHWAY WITH HECO SUCH THAT REPLACED AND ADDED STREET LIGHTS ARE ENERGIZED WITHIN 48 HOURS AFTER INSTALLATION.
- SEE SHEET 5 FOR ADDITIONAL GENERAL NOTES.

Install Overhead Street Light Series Circuit (Contract Change Order #1) from Joint Pole 137 to Niuiki Circle.

APPROVED:

Albert S. C. Chong
CHIEF, PLANNING & ENGINEERING, BWS 44

8/24/77
DATE



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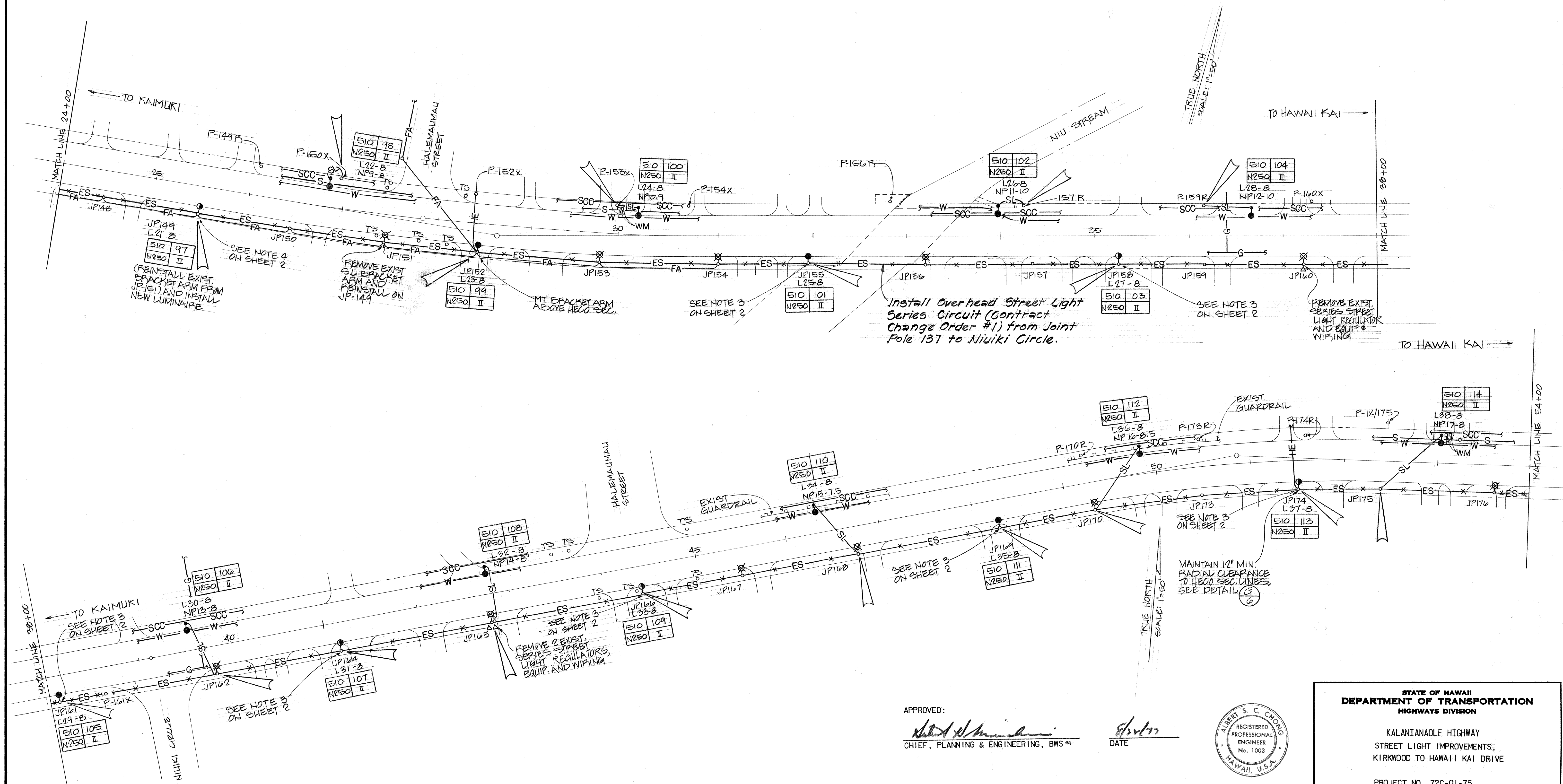
Albert S. C. Chong
Albert S. C. Chong, P.E.

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

KALANIANAOLE HIGHWAY
STREET LIGHT IMPROVEMENTS,
KIRKWOOD TO HAWAII KAI DRIVE
PROJECT NO. 72C-01-75

SHEET No. 1 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72C-01-75	1977	3	6



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

APPROVED: *[Signature]*
 CHIEF, PLANNING & ENGINEERING, BWS-44
 DATE: 5/3/77

ALBERT S. C. CHONG
 REGISTERED PROFESSIONAL ENGINEER
 No. 1003
 HAWAII, U.S.A.
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
[Signature]
 Albert S. C. Chong, P.E.

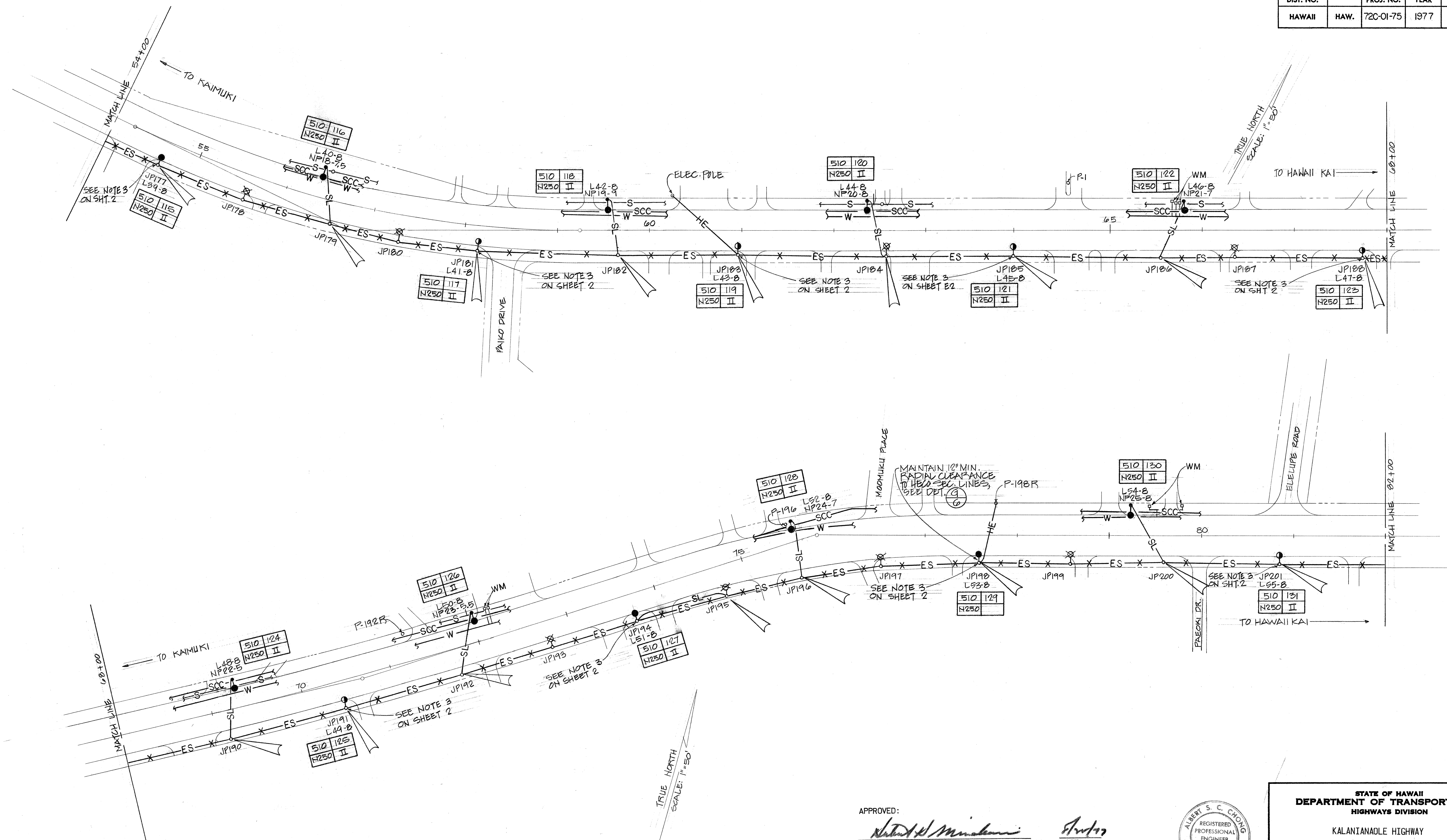
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
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KALANIANAʻOLE HIGHWAY
 STREET LIGHT IMPROVEMENTS,
 KIRKWOOD TO HAWAII KAI DRIVE

PROJECT NO. 72C-01-75

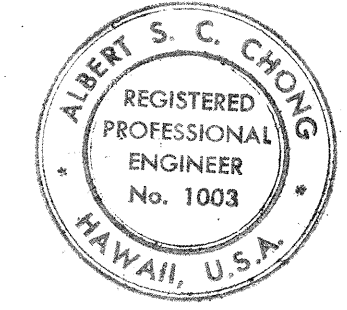
SHEET No. 2 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72C-01-75	1977	4	6



DATE	_____
SURVEY PLOTTED BY	_____
DESIGNED BY	_____
QUANTITIES BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
NO.	_____

APPROVED: *[Signature]* DATE *[Signature]*
CHIEF, PLANNING & ENGINEERING, BWS

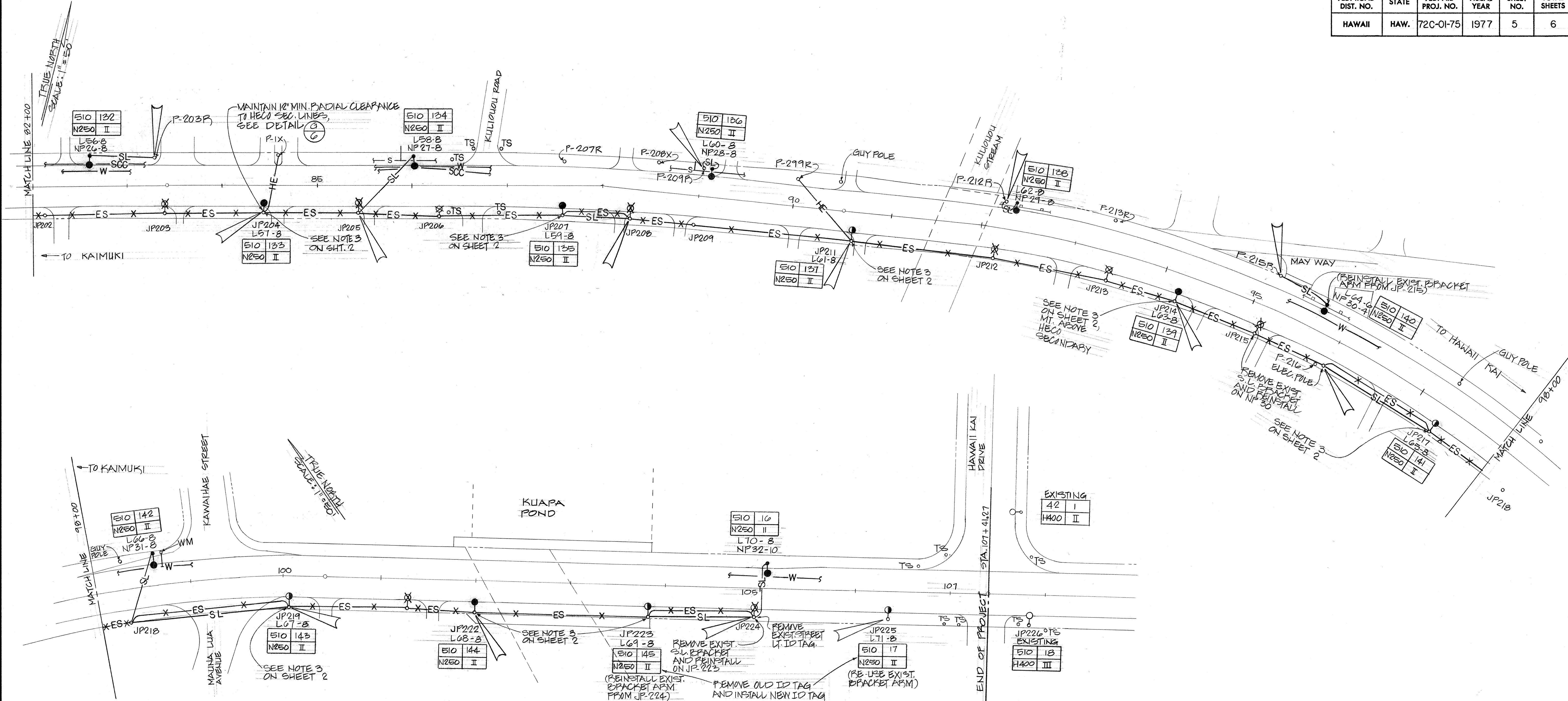


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[Signature]
Albert S. C. Chong, PE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KALANIANAʻOLE HIGHWAY
STREET LIGHT IMPROVEMENTS,
KIRKWOOD TO HAWAII KAI DRIVE
PROJECT NO. 72C-01-75

FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72C-01-75	1977	5	6



GENERAL WATER NOTES

- UNLESS OTHERWISE SPECIFIED, ALL MATERIALS AND CONSTRUCTION OF WATER SYSTEM FACILITIES AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE HONOLULU BOARD OF WATER SUPPLY'S WATER SYSTEM STANDARDS, DATED MARCH 1977, AND ALL SUBSEQUENT AMENDMENTS AND ADDITIONS.
- PRIOR TO EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING WATER MAINS AND APPURTENANCES IN THE FIELD.

WHERE THE INSTALLATION OF THE NEW WORK IS TO CROSS OVER OR UNDER EXISTING WATER MAINS, THE CONTRACTOR SHALL EXPOSE THE EXISTING WATER MAINS PRIOR TO TRENCHING. EXCAVATION AROUND WATER MAINS SHALL BE DONE BY HAND.
- APPROVAL BY THE BOARD OF WATER SUPPLY IS BASED SOLELY ON THE ADEQUACY OF THE WATER SUPPLY. DISCREPANCIES, IF ANY, OF ALIGNMENTS, GRADES, FITTINGS, ETC. SHALL BE THE RESPONSIBILITY OF THE ENGINEER WHO PREPARED THE PLANS.
- THE CONTRACTOR SHALL READJUST WATER SERVICES AND/OR METERS TO FACILITATE THE DUCTLINE CONSTRUCTION, WITH THE BOARD OF WATER SUPPLY'S INSPECTOR COORDINATING THE WORK.
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES AND STRUCTURES AS SHOWN ON THE PLANS ARE FROM THE LATEST AVAILABLE DATE BUT ARE NOT GUARANTEED AS TO ACCURACY, OR THAT OTHER OBSTACLES MAY NOT BE ENCOUNTERED DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL PAY FOR ALL DAMAGES TO THE EXISTING UTILITIES.

GENERAL UTILITY NOTES

- NOT ALL UNDERGROUND UTILITY LINES SHOWN. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL UTILITIES PRIOR TO ANY EXCAVATION WORK. REPAIR OF DAMAGES TO THESE UTILITIES CAUSED BY THE CONTRACTOR SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- GAS LINES: CONTRACTOR TO CALL 548-2126 FOR FIELD LOCATIONS OF GAS LINES A MINIMUM OF 48 HOURS BEFORE STARTING PROJECT EXCAVATION.
- TELEPHONE LINES: CONTRACTOR TO CALL HAWAIIAN TELEPHONE COMPANY FOR FIELD LOCATIONS OF TELEPHONE LINES A MINIMUM OF 48 HOURS BEFORE STARTING PROJECT EXCAVATION.
- WATER LINES: CONTRACTOR TO CALL BOARD OF WATER SUPPLY, CITY AND COUNTY OF HONOLULU FOR FIELD LOCATIONS OF WATER LINES AND LATERALS A MINIMUM OF 48 HOURS BEFORE STARTING PROJECT EXCAVATION.
- SEWER LINES: CONTRACTOR TO CALL DIVISION OF SEWERS, CITY AND COUNTY OF HONOLULU FOR FIELD LOCATIONS OF SEWER LINES AND LATERALS A MINIMUM OF 48 HOURS BEFORE STARTING PROJECT EXCAVATION.

APPROVED:

Albert S. C. Chong
CHIEF, PLANNING & ENGINEERING, BWS

9/20/77
DATE



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION
Albert S. C. Chong
Albert S. C. Chong, P.E.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

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