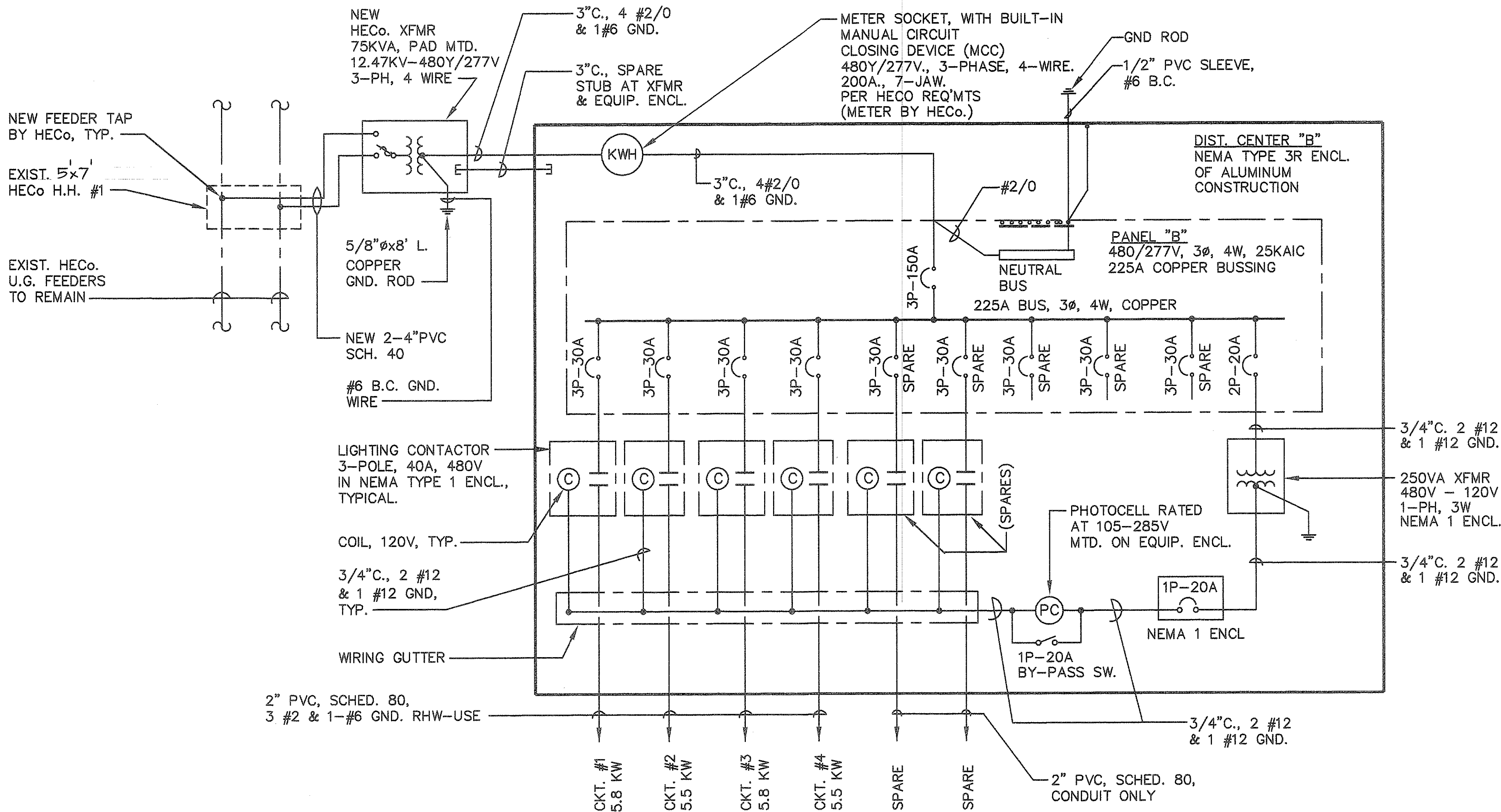


FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	IR-H1-1 (213)	1994	16	38



NOTES:

1. REFER TO HECO DWG. #32234 FOR HECO REQUIREMENTS.
2. CONTRACTOR SHALL PROVIDE CONCRETE ENCASED PRIMARY DUCTBANK FROM MANHOLE TO PADMOUNTED TRANSFORMER.
3. HECO SHALL PROVIDE PRIMARY CABLE & CONNECTIONS TO PADMOUNTED TRANSFORMER.
4. CONTRACTOR SHALL PROVIDE CONDUIT & CABLE FROM EQUIPMENT CABINET TO SECONDARY OF PADMOUNTED TRANSFORMER.
5. CONNECTION OF TRANSFORMER SECONDARY SHALL BE BY HECO.
6. CONTRACTOR SHALL COORDINATE WITH HECO FOR BREAKING INTO HECO MANHOLE.
7. ALL CONDUIT PENETRATIONS, END-BELL PROVISIONS AND CONCRETE PATCHING FOR HECO MANHOLE SHALL BE COORDINATED WITH HECO AND DONE TO HECO STANDARDS.

ONE-LINE DIAGRAM
DISTRIBUTION CENTER 'B' KUNIA INTERCHANGE
 A NOT TO SCALE
 E-14

DRAWING REVIEW:
 Reviewed for HECO's
 Facilities Only
 Date 3/11/94 By [Signature]
 Distribution Engineering Department
 Hawaiian Electric Company, Inc.
 HECO's review of these drawings shall in no way relieve the Customer, its Consultant, its Contractor or anyone acting on Customer's behalf from the responsibility for engineering, design, materials and any liability associated with this project.



Albert F. Kilburg, Jr.
 THIS WORK WAS PREPARED BY
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E-14

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

ONE-LINE DIAGRAM

INTERSTATE ROUTE H-1
 PALAILAI I.C. TO KUNIA I.C.
 PROJECT No. IR-H1-1(213)

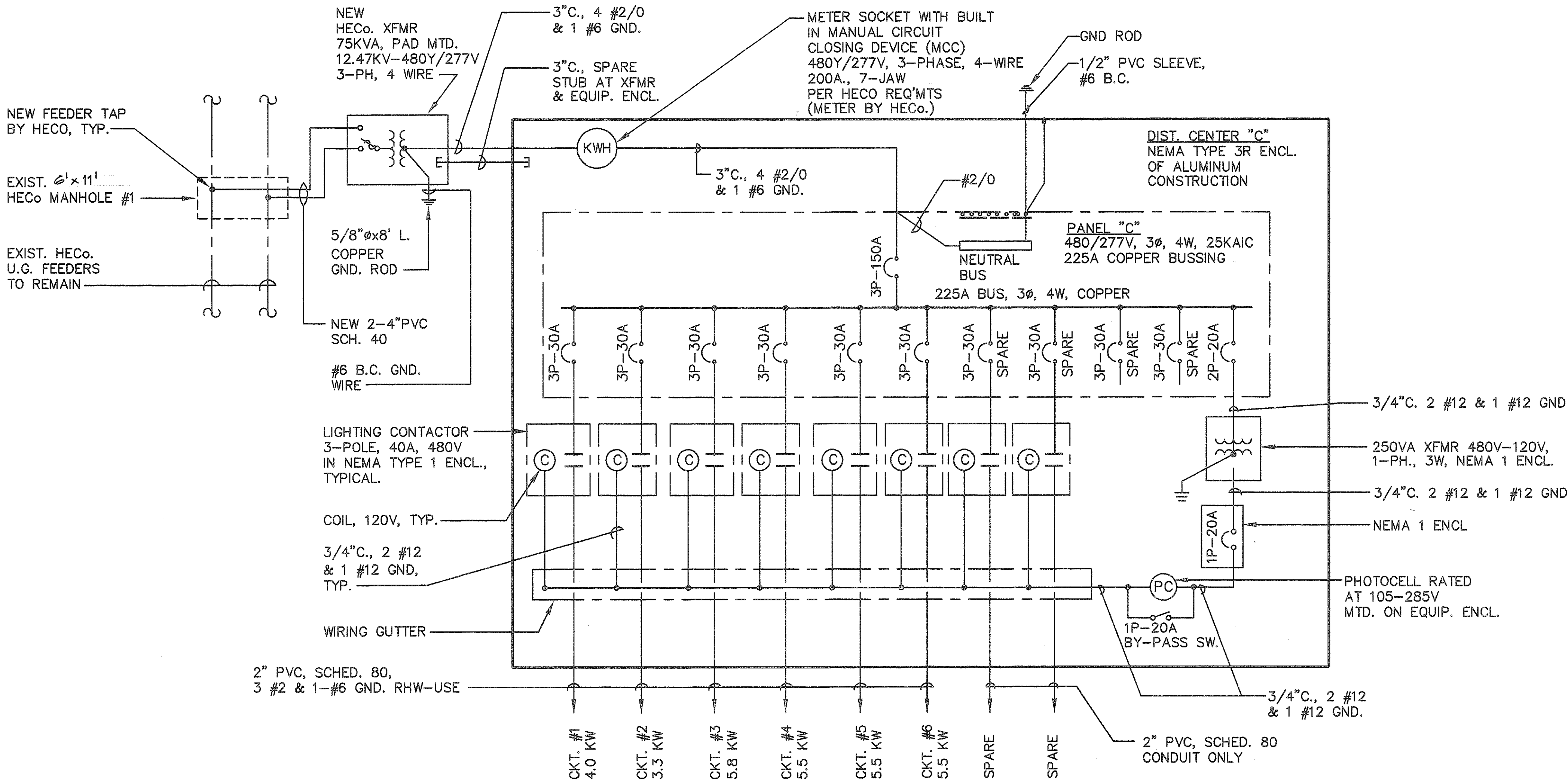
SCALE: AS NOTED

SHEET No. 1 OF 18 SHEETS

DVM JOB No.: 89104.01
 CAD FILE No.: E-14/2

DATE REVISION

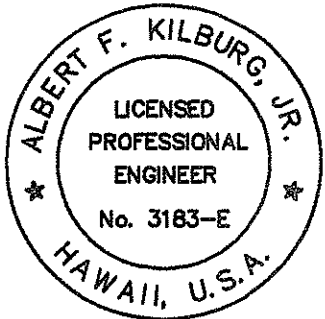
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	IR-H1-1 (213)	1994	17	38



NOTES:

1. REFER TO HECO. DWG. #32235 FOR HECO. REQUIREMENTS.
2. CONTRACTOR SHALL PROVIDE CONCRETE ENCASED PRIMARY DUCTBANK FROM MANHOLE TO PADMOUNTED TRANSFORMER.
3. HECO. SHALL PROVIDE PRIMARY CABLE & CONNECTIONS TO PADMOUNTED TRANSFORMER.
4. CONTRACTOR SHALL PROVIDE CONDUIT & CABLE FROM EQUIPMENT CABINET TO SECONDARY OF PADMOUNTED TRANSFORMER.
5. CONNECTION OF TRANSFORMER SECONDARY SHALL BE BY HECO.
6. CONTRACTOR SHALL COORDINATE WITH HECO FOR BREAKING INTO HECO MANHOLE.
7. ALL CONDUIT PENETRATIONS, END-BELL PROVISIONS AND CONCRETE PATCHING FOR HECO MANHOLE SHALL BE COORDINATED WITH HECO AND DONE TO HECO STANDARDS.

A
E-15
ONE-LINE DIAGRAM DISTRIBUTION CENTER "C"-MAKAKILO INTERCHANGE
NOT TO SCALE



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ME OR UNDER MY SUPERVISION

DRAWING REVIEW:
Reviewed for HECO's
Facilities Only
Date 2/11/94 BY [Signature]
Distribution Engineering Department
Hawaiian Electric Company, Inc.
HECO's review of these drawings shall in no way relieve the Customer, its Consultant, its Contractor or anyone acting on Contractor's behalf from the responsibility for engineering, design, materials and any liability associated with this project.

DVM JOB No.: 89104.01
CAD FILE No.: E-15/2

DATE REVISION

SCALE: AS NOTED
SHEET No. 2 OF 18 SHEETS

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ONE-LINE DIAGRAM
INTERSTATE ROUTE H-1
PALAILAI I.C. TO KUNIA I.C.
PROJECT No. IR-H1-1(213)