

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-02-08R	2016	58	69

ELECTRICAL SYMBOLS

	Existing Flood Light To Be Removed		Existing Fire Alarm Manual Station To Be Removed
	Existing Post Light To Be Removed		Fire Alarm Manual Station, +48" To Top Of Device Plate
	Post Light		Existing Fire Alarm Audible Device To Be Removed
	Existing Ceiling Luminaire		Fire Alarm Audible Device/Flashing Light, +80"
	Ceiling Luminaire		Addressable Fire Alarm Zone Monitor
	Existing Wall Luminaire		Addressable Fire Alarm Automatic Smoke Detector
	Existing Ceiling Fluorescent Luminaire To Be Removed		Existing Fire Alarm Panel To Be Removed
	Ceiling LED Luminaire		Fire Alarm Panel
	Ceiling LED Luminaire With Emergency Battery Pack		Duct Smoke Detector
	Existing Track To Be Removed		Fire Smoke Damper
	Ceiling Exit Light, Blackened Segments Indicates Illuminated Sides And Arrows Indicates Direction		Motorized Damper
	Existing Wall Exit Light To Be Removed		Existing Motor Outlet To Be Removed
	Existing Switch To Be Removed		Motor Outlet
	Existing Ceiling Occupancy Sensor To Be Removed		Existing Motor Controller To Be Removed
	Ceiling Occupancy Sensor, Dual Technology Type		Motor Controller
	Wall Occupancy Sensor, Dual Technology Type, +4'-0" To Top Of The Device Plate		Existing Safety Switch To Be Removed
	Existing Duplex Convenience Outlet To Be Removed		Safety Switch
	Duplex Convenience Outlet, 3W20A, Grounding Type, +18" To Bottom Of Device Plate Unless Otherwise Noted		Weatherproof
	Existing Duplex Convenience GFI Outlet To Be Removed		Minimum Circuit Amperes
	Duplex Convenience Outlet, 3W20A, Ground Fault Interrupter Type, +18" To Bottom Of Device Plate Unless Otherwise Noted		Authority Having Jurisdiction
	Existing Special Outlet To Be Removed		Luminaire Designation, Type "A" Indicated
	Power Pole		Wiring In Existing Raceway
	Equipment Connection		Wiring In Existing Raceway To Be Removed
	Existing Water Heater Connection To Be Removed		Existing Overhead Wiring To Be Removed
	Existing Wall Junction Box To Be Removed		Overhead Wiring
	Ceiling Junction Box, 4-11/16" Square Minimum		Wiring In Exposed Raceway
	Existing Transformer To Be Removed		Wiring In Raceway Concealed Underground Or Below Grade
	Existing Panelboard To Be Removed		Wiring In Raceway Concealed In Wall Or Ceiling
	Existing Panelboard		Wiring In Surface Metal Molding
	Panelboard		Wiring In Flexible Raceway
	Existing Telephone Cabinet		
	Existing Telephone/Data Outlet To Be Removed		
	Telephone/Data Outlet, +18" To Bottom Of Device Plate Unless Otherwise Noted		

- Notes:
- Any circuit with no further designation indicates a two wire circuit. Circuits with additional wires are indicated as follows: , 3 wires; , 4 wires, etc.
 - Ground wire per National Electrical Code indicated as follows: .
 - All exposed conduit and boxes shall be painted to match adjacent wall or ceiling surrounding.

City And County Of Honolulu
Revised Ordinance Chapter 32,
Honolulu County Code 1990, As Ammended

To the best of my knowledge, this project's design substantially conforms to the Building Energy Conservation Code for:

Building Component System
☒ Electrical Component System
Mechanical Component System

Signature: Date: April 2016
Name: Clayton C. Y. Pang, P. E.
Title: Principal
License No.: 4145-E

Building Energy Efficiency Standard Calculations

Exterior Lighting Power Allowance 1,482 W Installed 1,112 W
Interior Lighting Power Allowance 7,424 W Installed 5,336 W

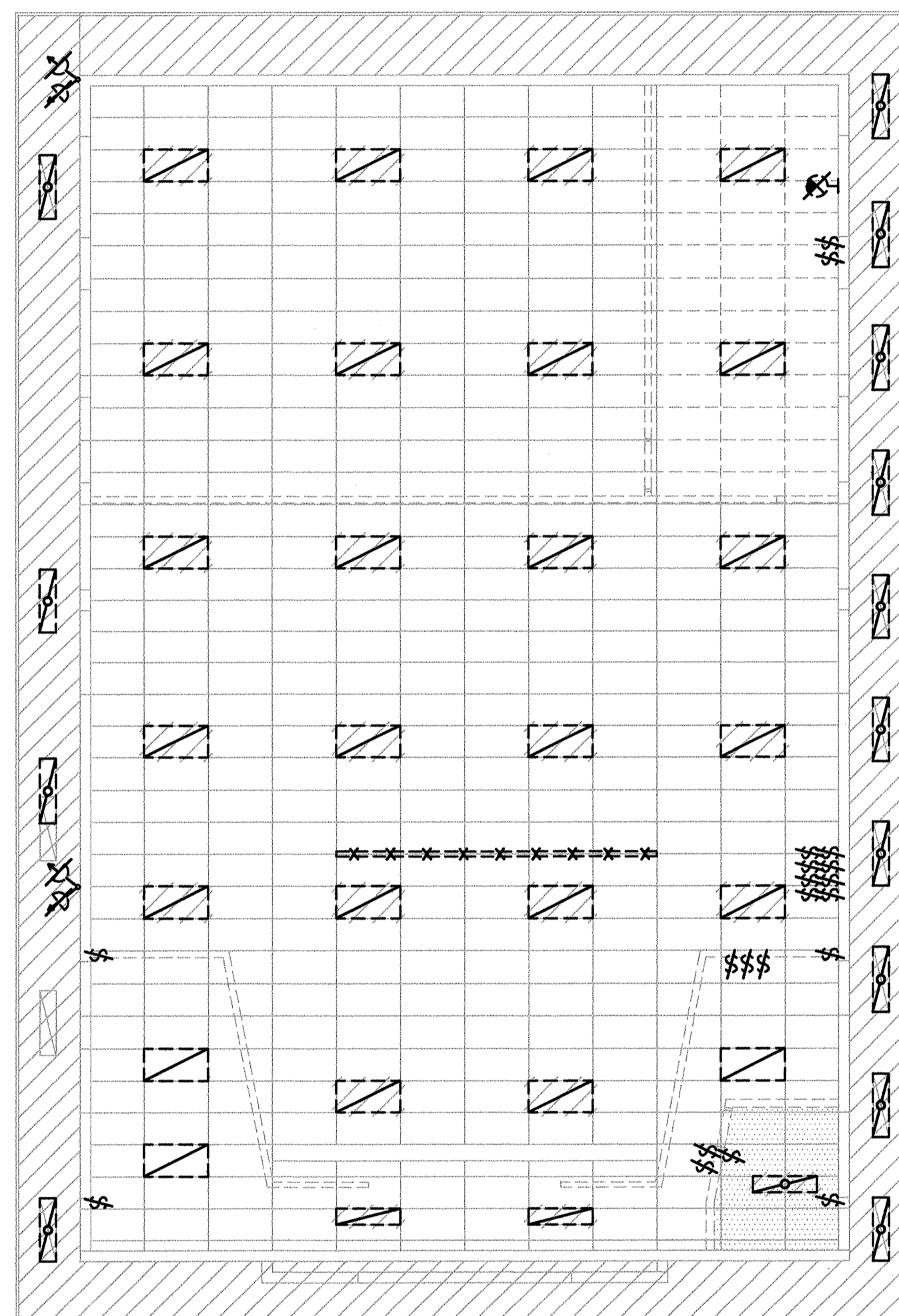


EXPIRATION DATE OF THE LICENSE 4/30/2018
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**ELECTRICAL SYMBOLS, ENERGY
EFFICIENCY CALCULATIONS**
MOTOR VEHICLE SAFETY OFFICE
RENOVATION
Project No. HWY-0-02-08R
Scale: As Noted Date: April, 2016

SHEET No. 58 OF 69 SHEETS

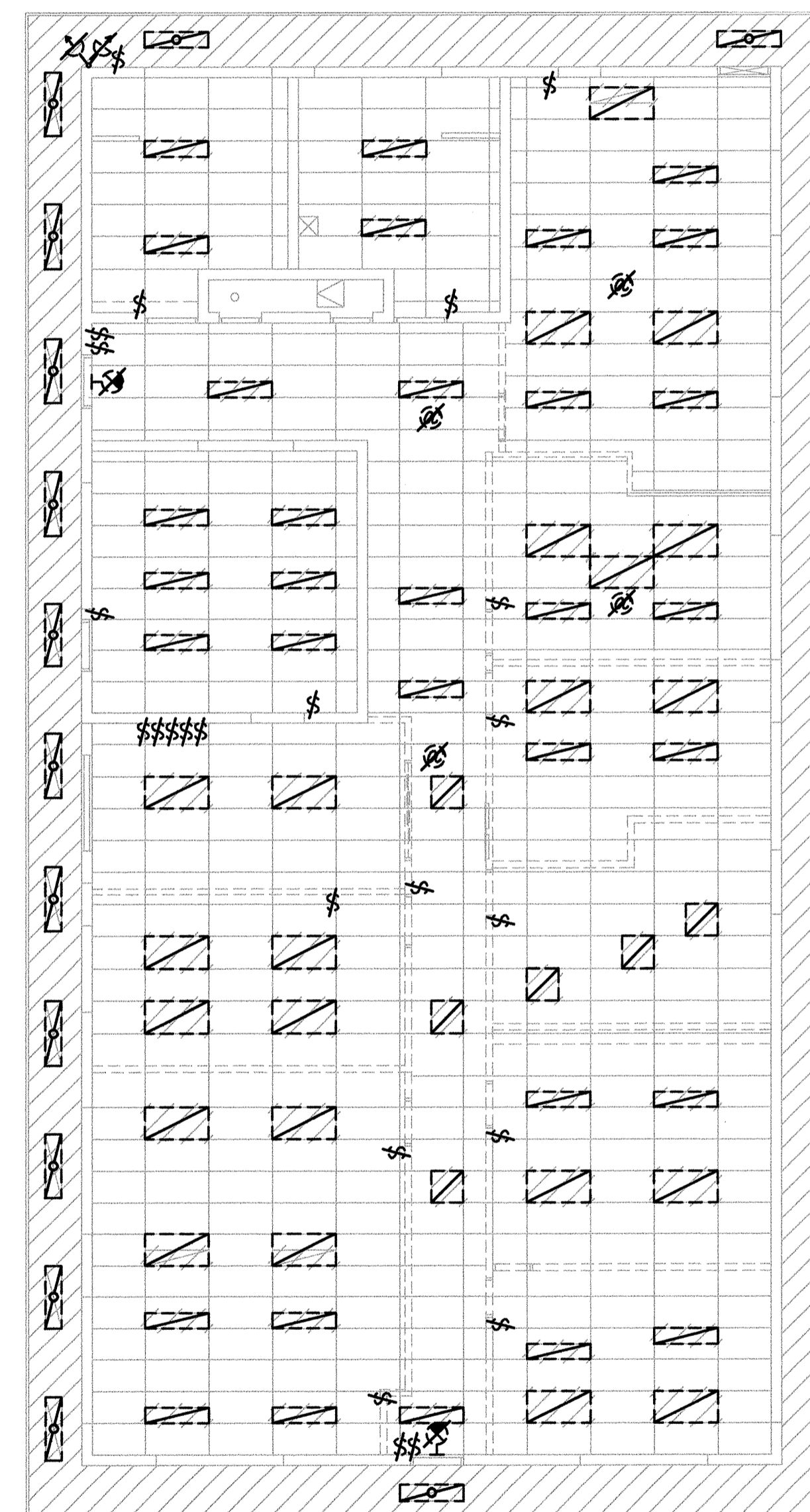
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-02-08R	2016	61	69



BUILDING 'A'
LIGHTING DEMOLITION PLAN

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

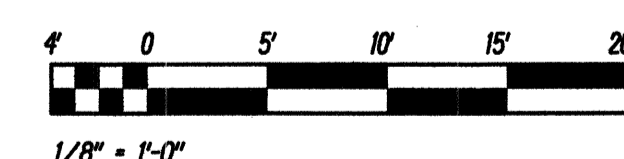
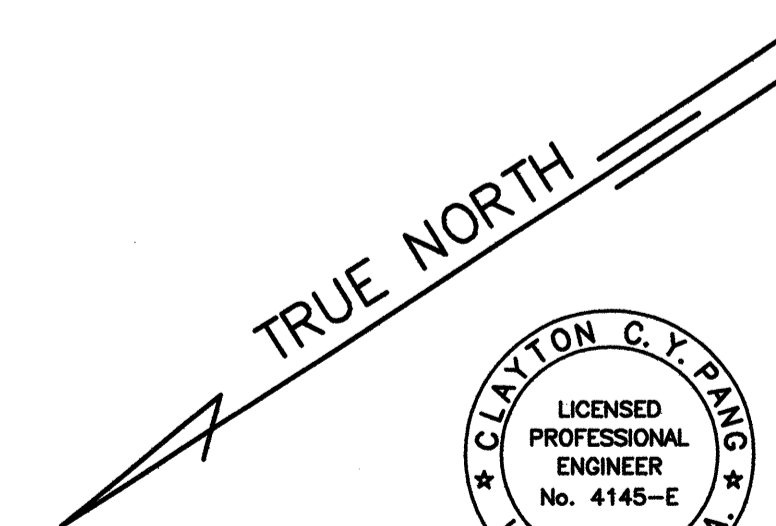
1
E21 E21



BUILDING 'B'
LIGHTING DEMOLITION PLAN

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

2
E21 E21



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

BUILDING 'A' & 'B' LIGHTING
DEMOLITION PLANS

MOTOR VEHICLE SAFETY OFFICE
RENOVATION

Project No. HWY-0-02-08R

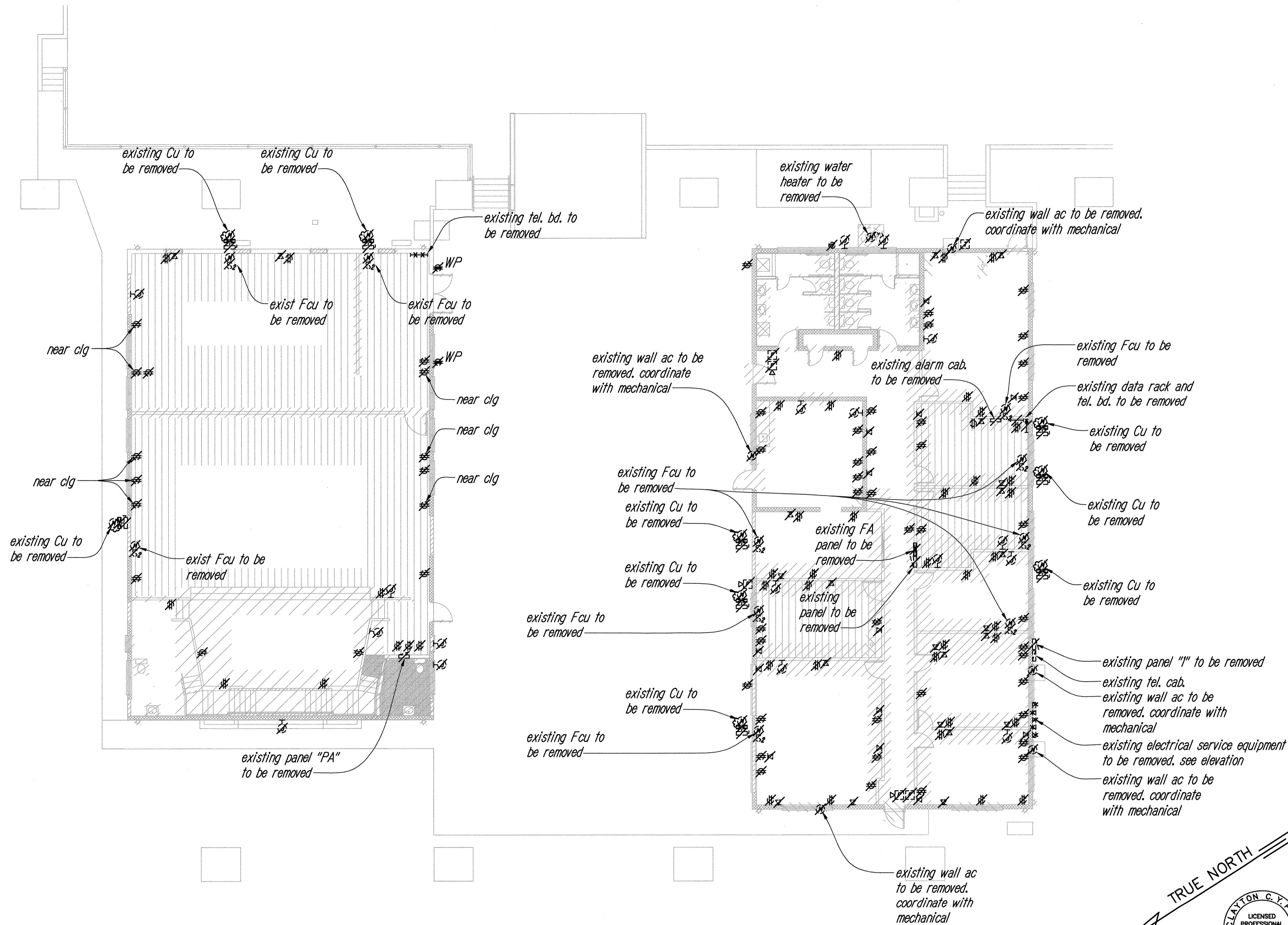
Scale: As Noted

Date: April, 2016

SHEET No. E21 OF 69 SHEETS

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-02-08R	2016	62	69



**BUILDING 'A' POWER
AND SIGNAL DEMOLITION PLAN**

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

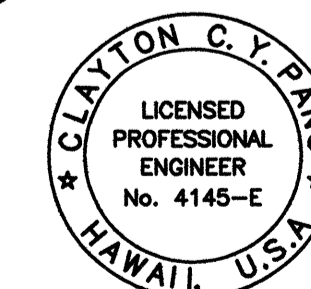
1
E22 E22

**BUILDING 'B' POWER
AND SIGNAL DEMOLITION PLAN**

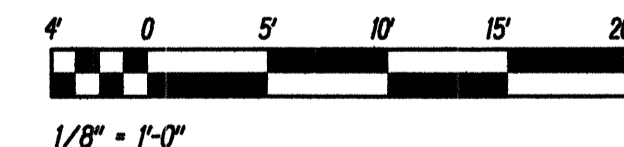
Scale - 1/8" = 1'-0"

2
E22 E22

TRUE NORTH



CLAYTON C. PANG
LICENSED PROFESSIONAL ENGINEER
No. 4145-E
HAWAII, U.S.A.
EXPIRATION DATE OF THE LICENSE 4/30/2019
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**BUILDING 'A' & 'B' POWER AND
SIGNAL DEMOLITION PLANS**

MOTOR VEHICLE SAFETY OFFICE
RENOVATION

Project No. HWY-0-02-08R

Scale: As Noted

Date: April, 2016

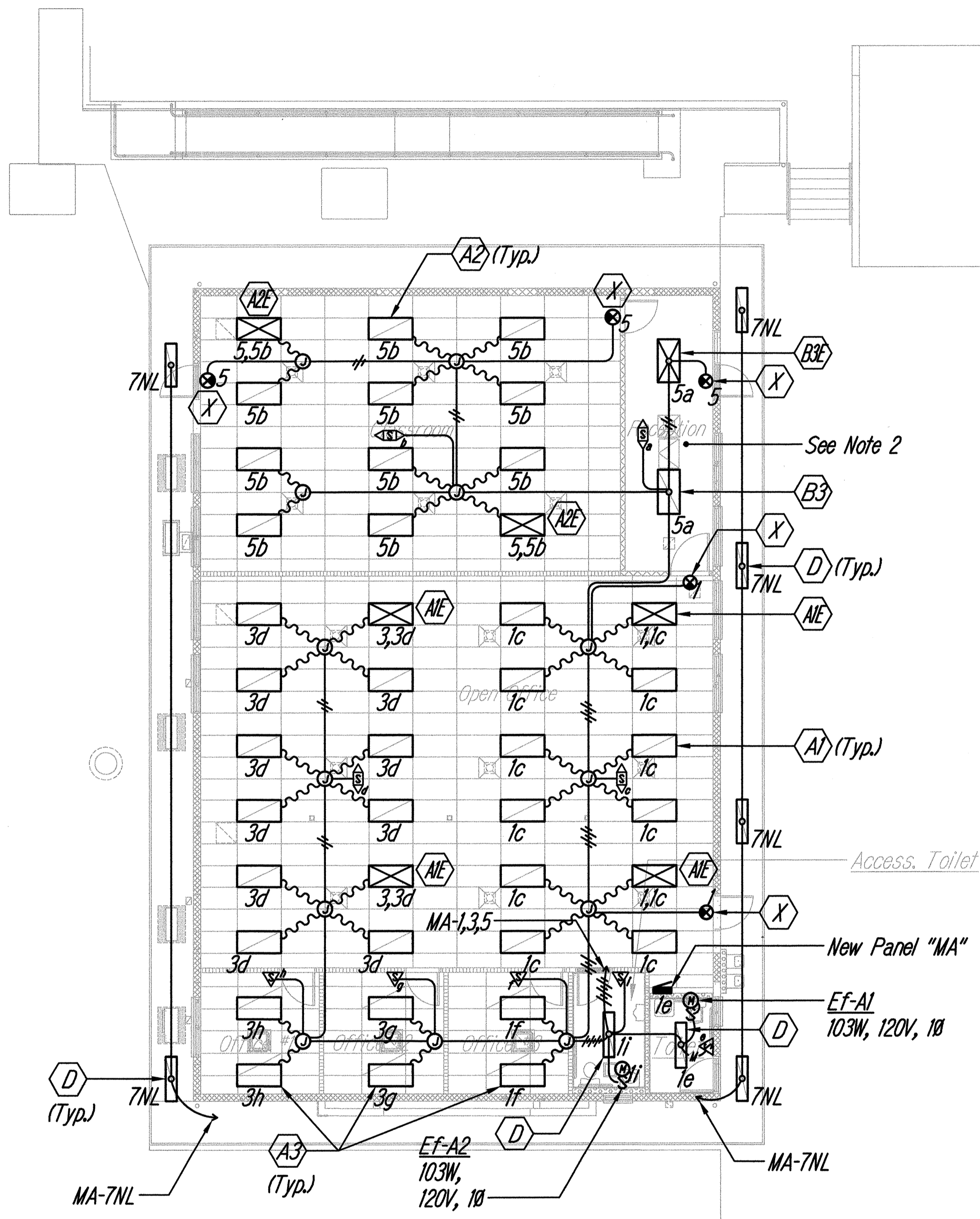
SHEET No. E22 OF 69 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	
No.	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-02-08R	2016	63	69

LUMINAIRE SCHEDULE

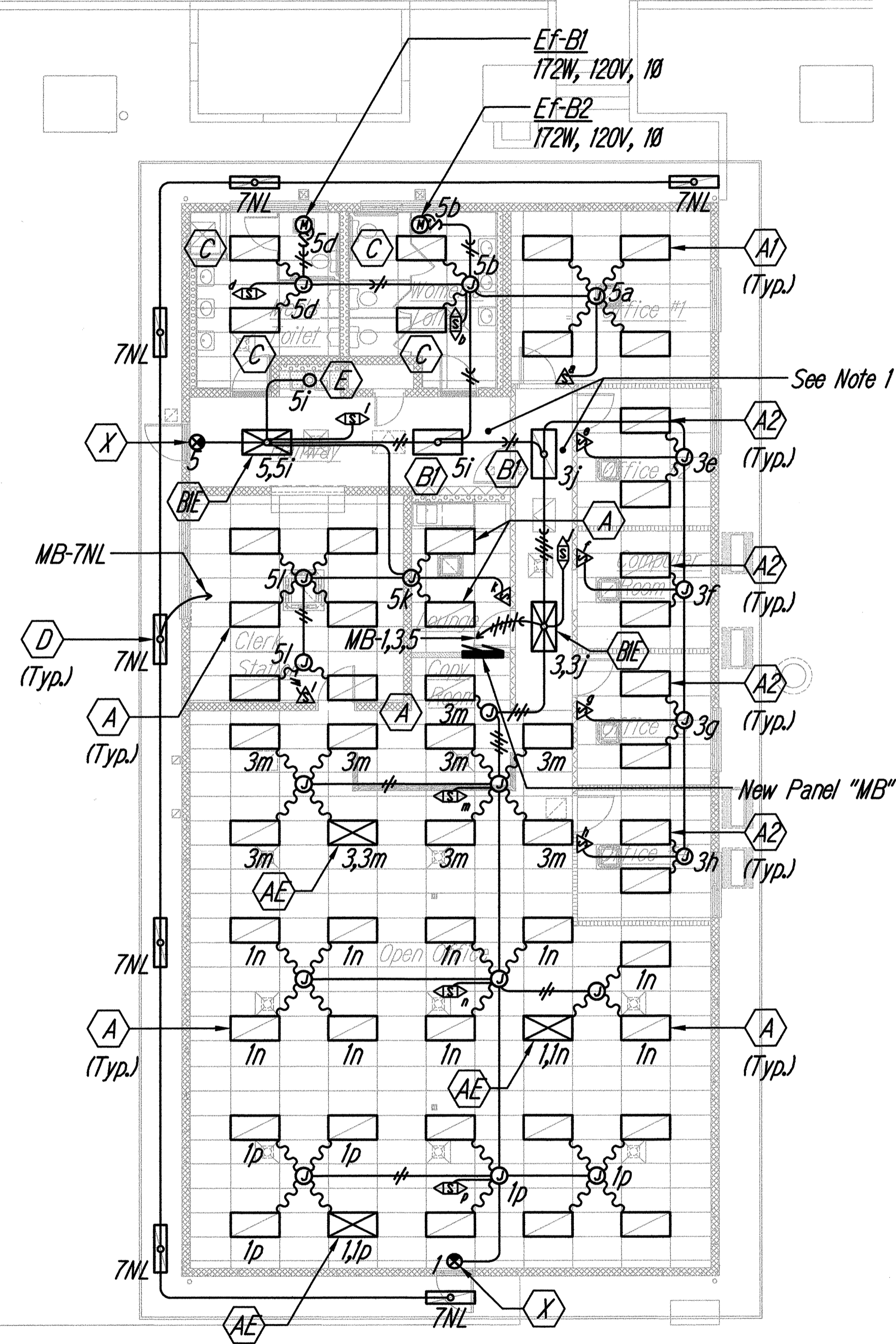
TYPE	LAMP	DESCRIPTION
A	41W LED	Columbia LSER24-40LWG-C-EU Or Equal
AE	41W LED	Columbia LSER24-40LWG-C-EU-ELL14 Or Equal
A1	52W LED	Columbia LSER24-40MLG-C-EU Or Equal
A1E	52W LED	Columbia LSER24-40MLG-C-EU-ELL14 Or Equal
A2	62W LED	Columbia LSER24-40HLG-C-EU Or Equal
A2E	62W LED	Columbia LSER24-40HLG-C-EU-ELL14 Or Equal
A3	82W LED	Columbia LSER24-40VLG-C-EU Or Equal
B1	52W LED	Columbia LSER24-40MLSM-C-EU Or Equal
B1E	52W LED	Columbia LSER24-40MLSM-C-EU-ELL14 Or Equal
B3	82W LED	Columbia LSER24-40VLSM-C-EU Or Equal
B3E	82W LED	Columbia LSER24-40VLSM-C-EU-ELL14 Or Equal
C	39W LED	Columbia LJT24-40LWG-FS-A12-EU Or Equal
D	39W LED	Columbia LJT14-40MLG-FSA12-EU With FK14 Or Equal
E	25W LED	Luminaire LED APX13-25W HP-4000K-120-FL-WHT Or Equal
G	130W LED	Kim AR-3-E35-120L-4K-120-DB Or Equal
X	LED	Dual-Lite LX-U-R-W-E Or Equal



- Notes:
1. Provide fire stopping material around all conduits penetrating through Hallway walls/ceiling.
 2. Provide fire stopping material around all conduits penetrating through Reception walls/ceiling.

BUILDING 'A'
LIGHTING PLAN - NEW WORK
 Scale - 1/8" = 1'-0"

1
 E2.3 E2.3



BUILDING 'B'
LIGHTING PLAN - NEW WORK
 Scale - 1/8" = 1'-0"

2
 E2.3 E2.3

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

ORIGINAL PLAN	No.
NOTE BOOK	



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

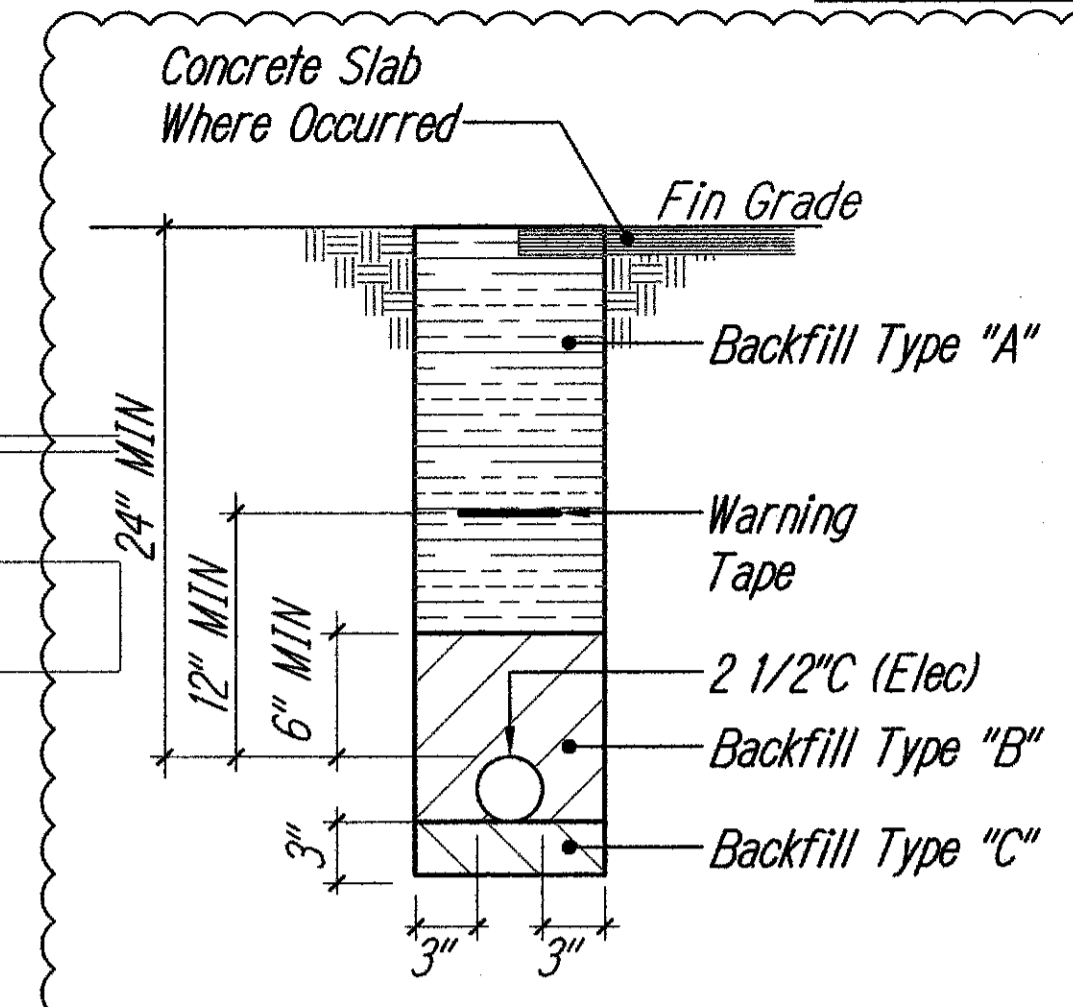
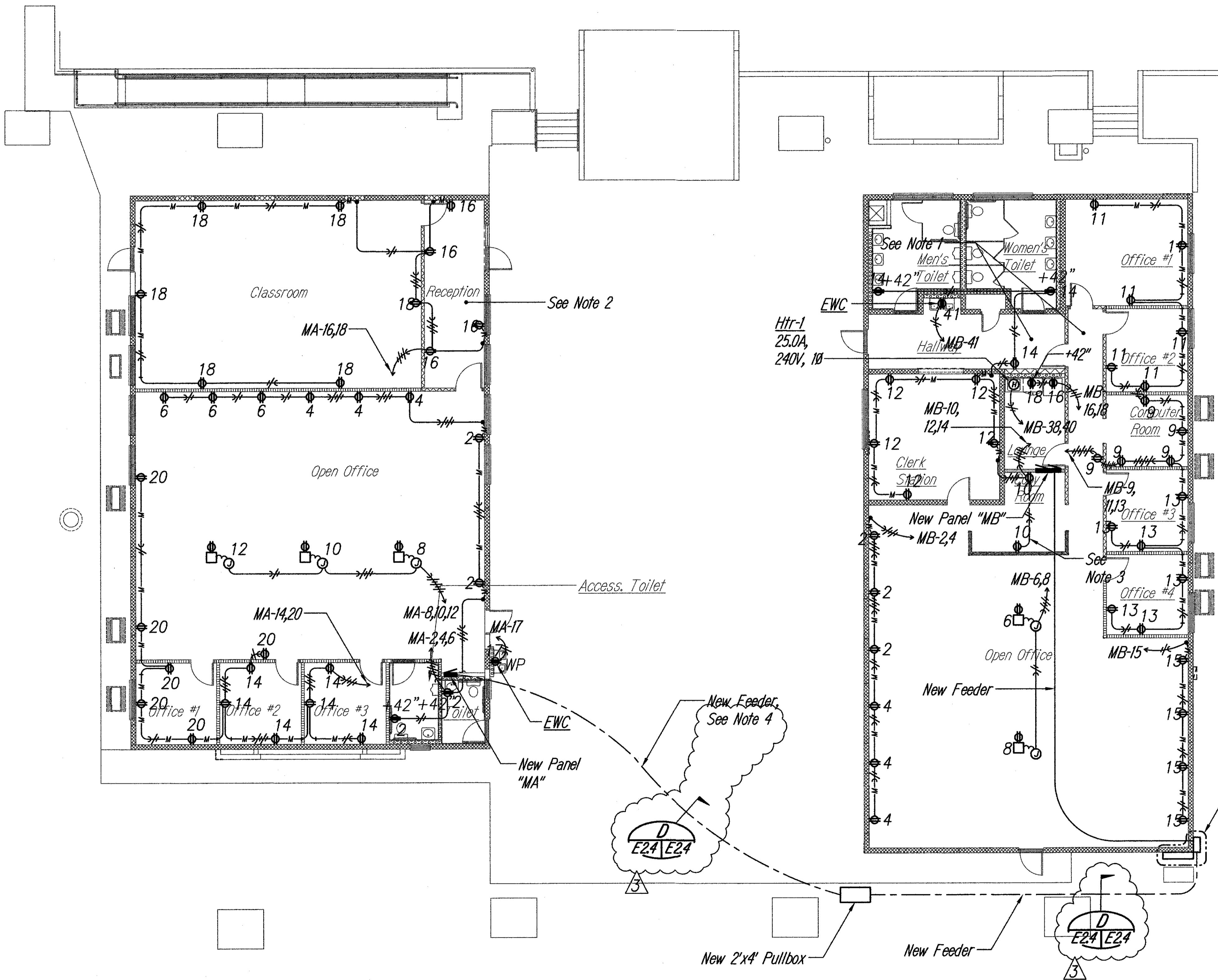
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

BUILDING 'A' & 'B' LIGHTING PLANS
- NEW WORK, LUMINAIRE SCHEDULE

MOTOR VEHICLE SAFETY OFFICE
 RENOVATION
 Project No. HWY-0-02-08R
 Scale: As Noted Date: April, 2016

SHEET No. E23 OF 69 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-02-08R	2016	C.O.ADD.64	69



Backfill Notes:

Type "A": Beach sand, earth, or earth & gravel. The maximum rock size shall be 1" and the mixture shall contain no more than 50 percent by volume of rock particles.

Type "B": Beach sand, earth, or earth & gravel. If earth & gravel mixture, must pass a 1/2" mesh screen and contain not more than 20 percent by volume of rock particles.

Type "C": If the normal material in the bottom of the trench is not type "B" an additional 3" shall be excavated and type "B" backfill shall be provided.

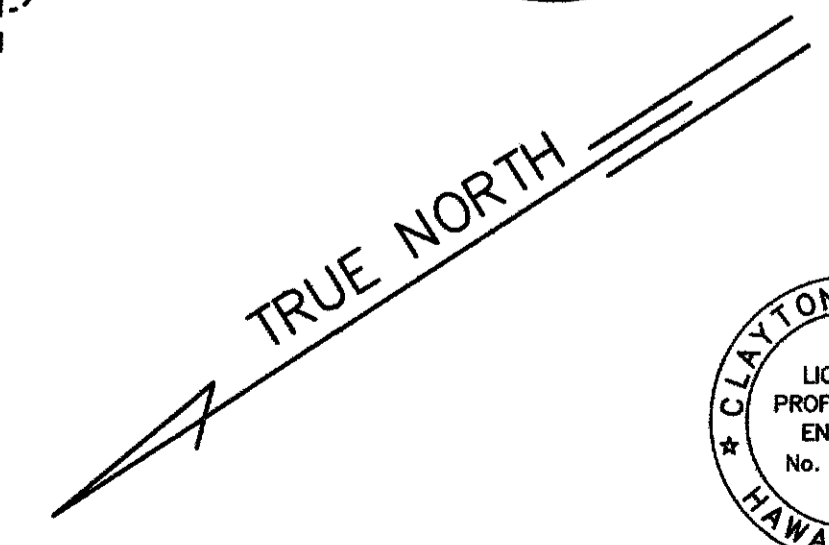
- Notes:**
1. Provide fire stopping material around all conduits penetrating through Hallway walls/ceiling.
 2. Provide fire stopping material around all conduits penetrating through Reception walls/ceilings.
 3. Contractor shall sawcut existing concrete floor for installation of new conduit and patch to match existing.
 4. Sawcut existing concrete slab as required and patch to match existing.



BUILDING 'A'
POWER PLAN - NEW WORK
Scale - 1/8" = 1'-0"

BUILDING 'B'
POWER PLAN - NEW WORK
Scale - 1/8" = 1'-0"

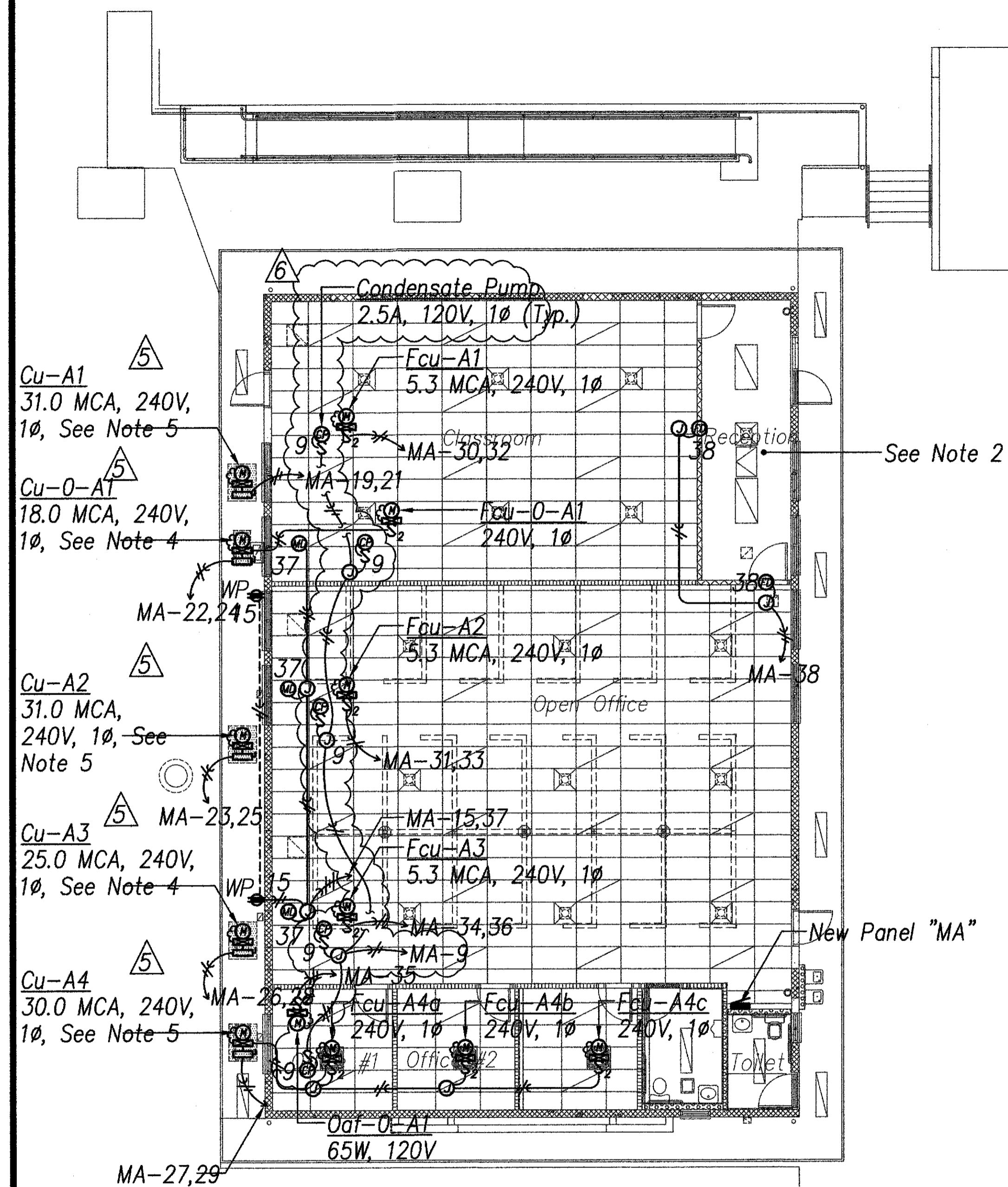
New Electrical Service Equipment.
See Elevation **B**
E24 E30



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

DATE	REVISION
1/9/2017	1. Add Duct Section
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
BUILDING 'A' & 'B' POWER PLANS - NEW WORK	
MOTOR VEHICLE SAFETY OFFICE RENOVATION	
Project No. HWY-0-02-08R	
Scale: As Noted	Date: April, 2016
SHEET No. E24 OF 69 SHEETS	

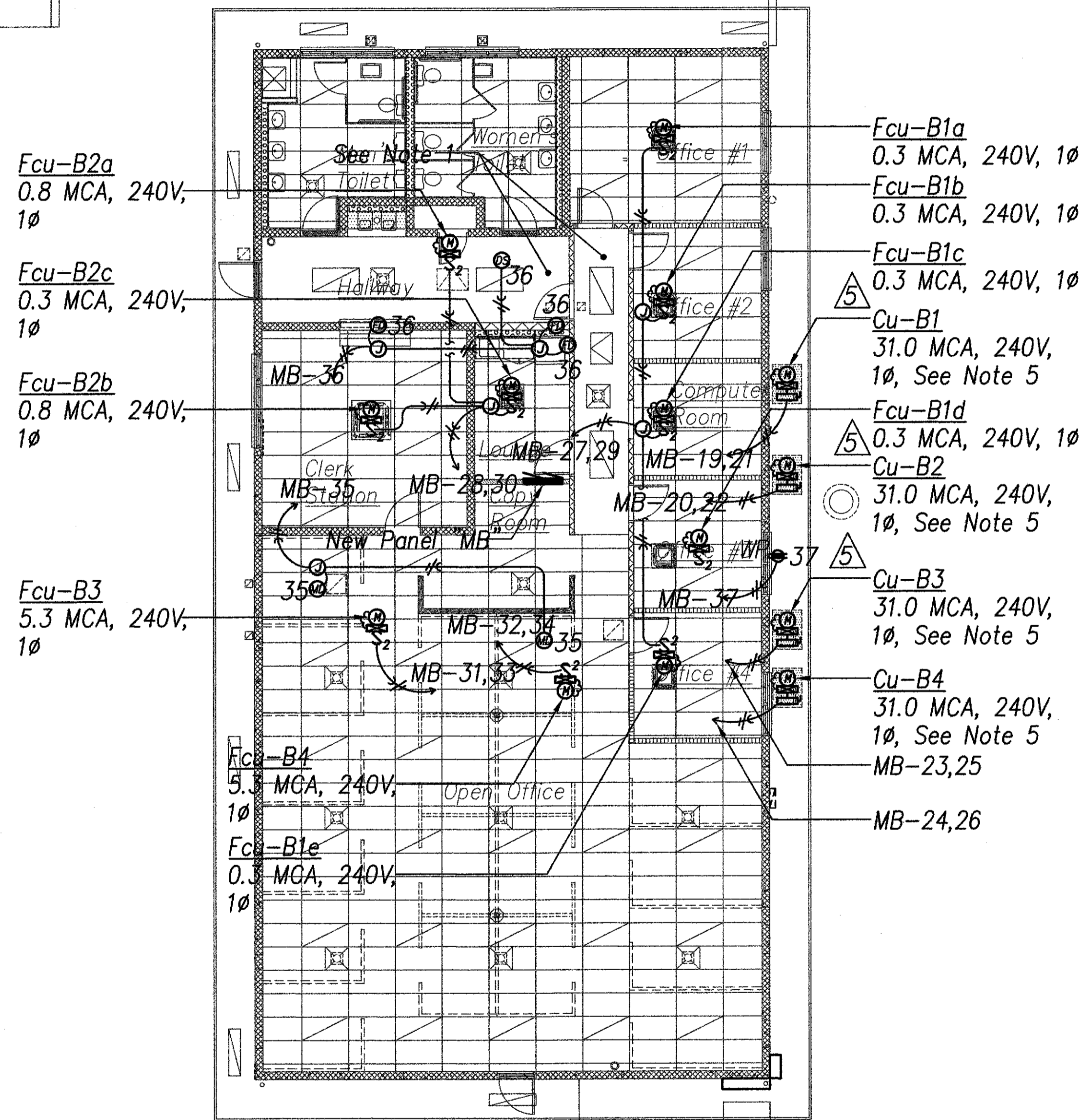
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	



BUILDING 'A' MECHANICAL EQUIPMENT CONNECTION POWER PLAN - NEW WORK

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

1
E2.6/E2.6

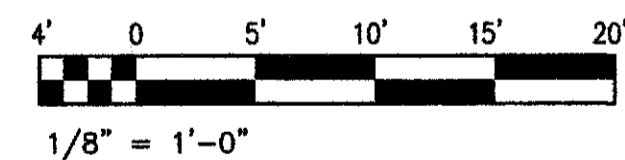


BUILDING 'B' MECHANICAL EQUIPMENT CONNECTION POWER PLAN - NEW WORK

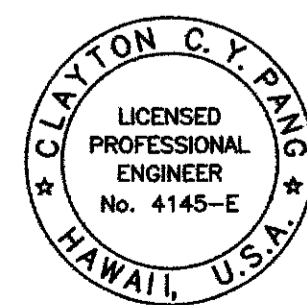
Scale - 1/8" = 1'-0"

2
E2.6/E2.6

- Notes:**
1. Provide fire stopping material around all conduits penetrating through Hallway walls/ceiling.
 2. Provide fire stopping material around all conduits penetrating through Reception walls/ceiling.
 3. Contractor shall verify exact location of all equipment with Mechanical prior to rough-in.
 4. Provide 2P30A NF SW, NEMA 3R.
 5. Provide 2P60A NF SW, NEMA 3R.



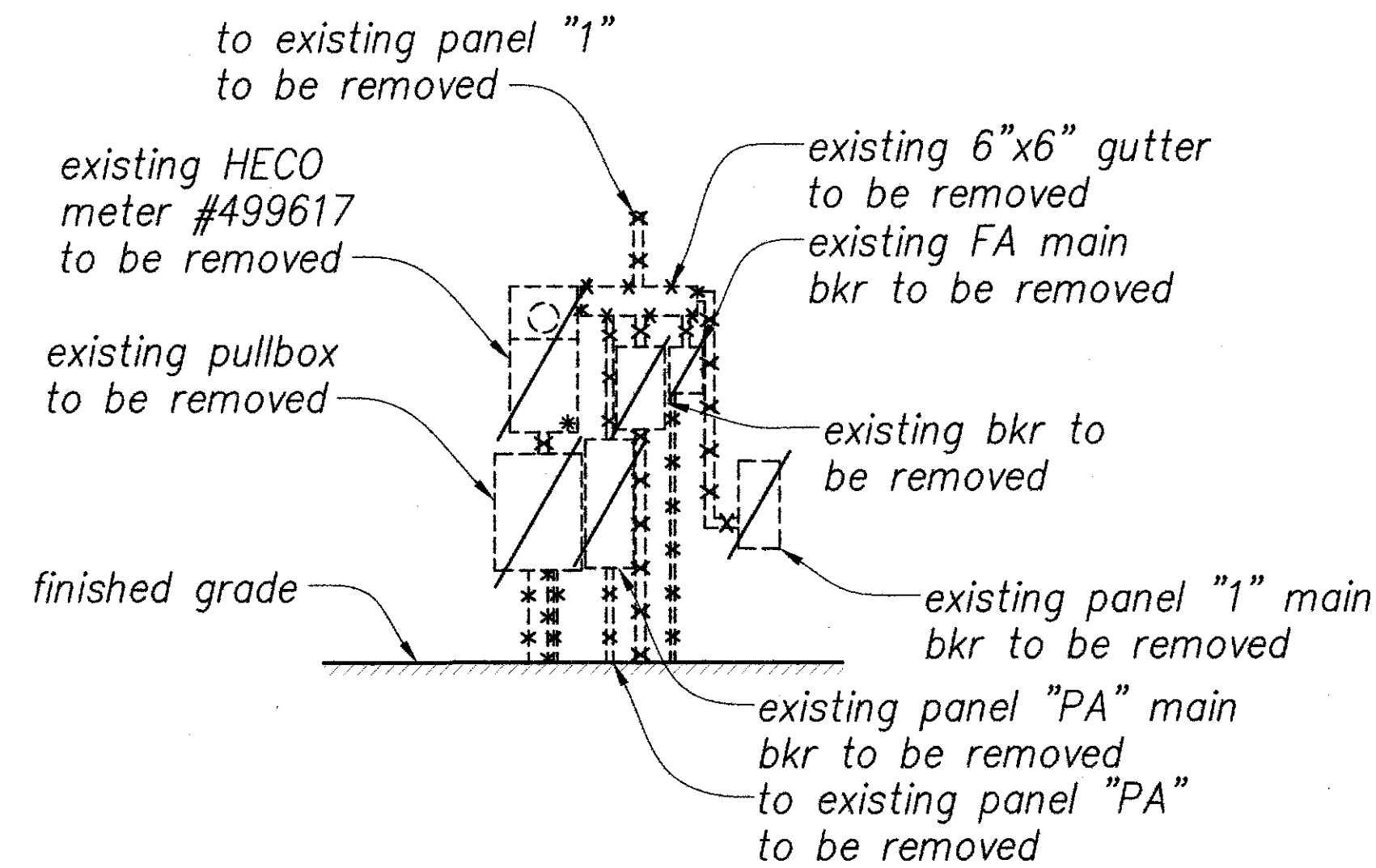
TRUE NORTH



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

DATE	REVISION
11/17/17	△ Add Condensate Pumps
4/12/2017	△ Revise CU Required Amps
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
BUILDING 'A' & 'B' MECHANICAL EQUIPMENT CONNECTION POWER PLANS - NEW WORK	
MOTOR VEHICLE SAFETY OFFICE RENOVATION	
Project No. HWY-0-02-08R	
Scale: As Noted Date: April, 2016	

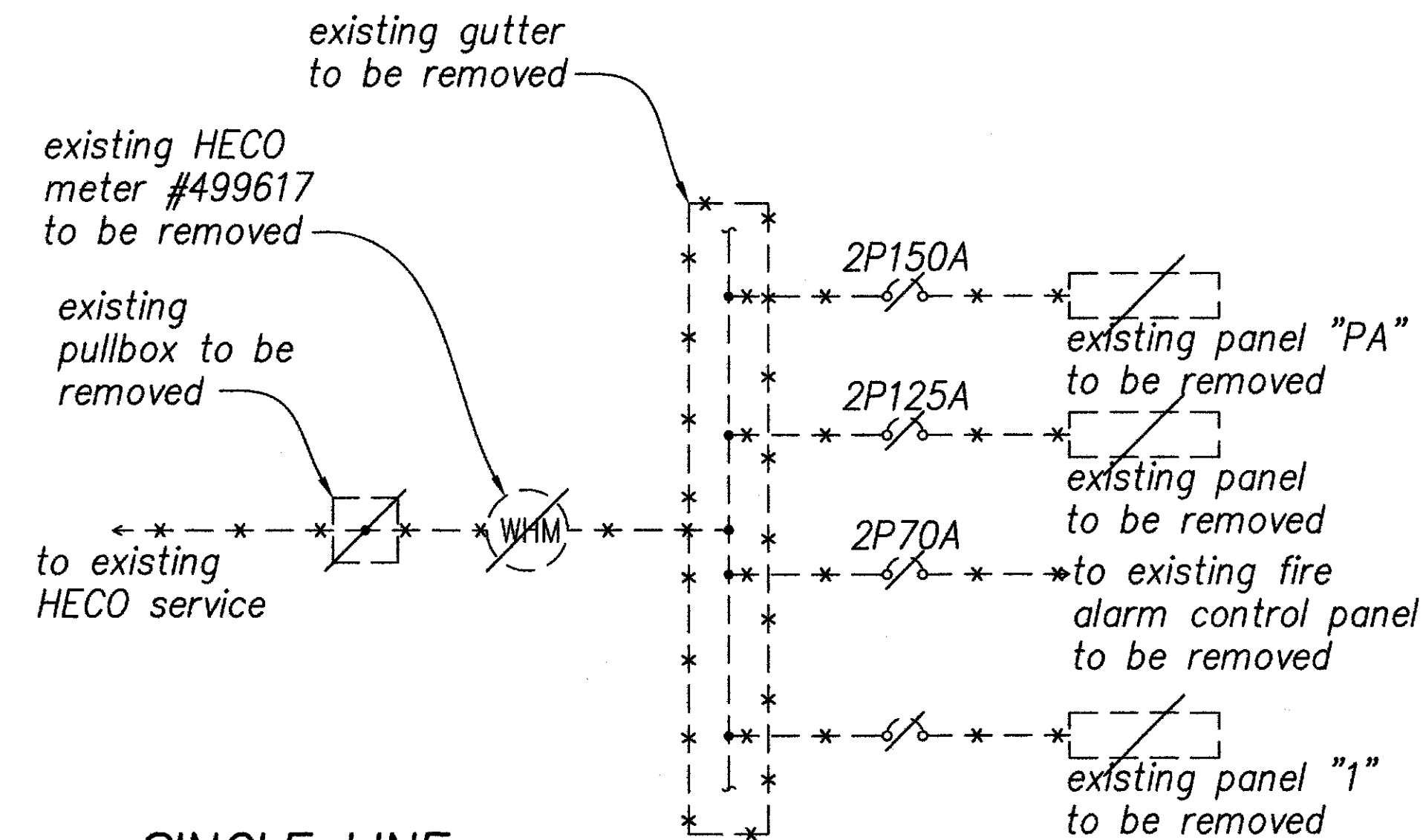
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-02-08R	2016	C.O.ADD.67	69



**ELECTRICAL SERVICE EQUIPMENT
ELEVATION - DEMOLITION WORK**

Scale - 3/8" = 1'-0"

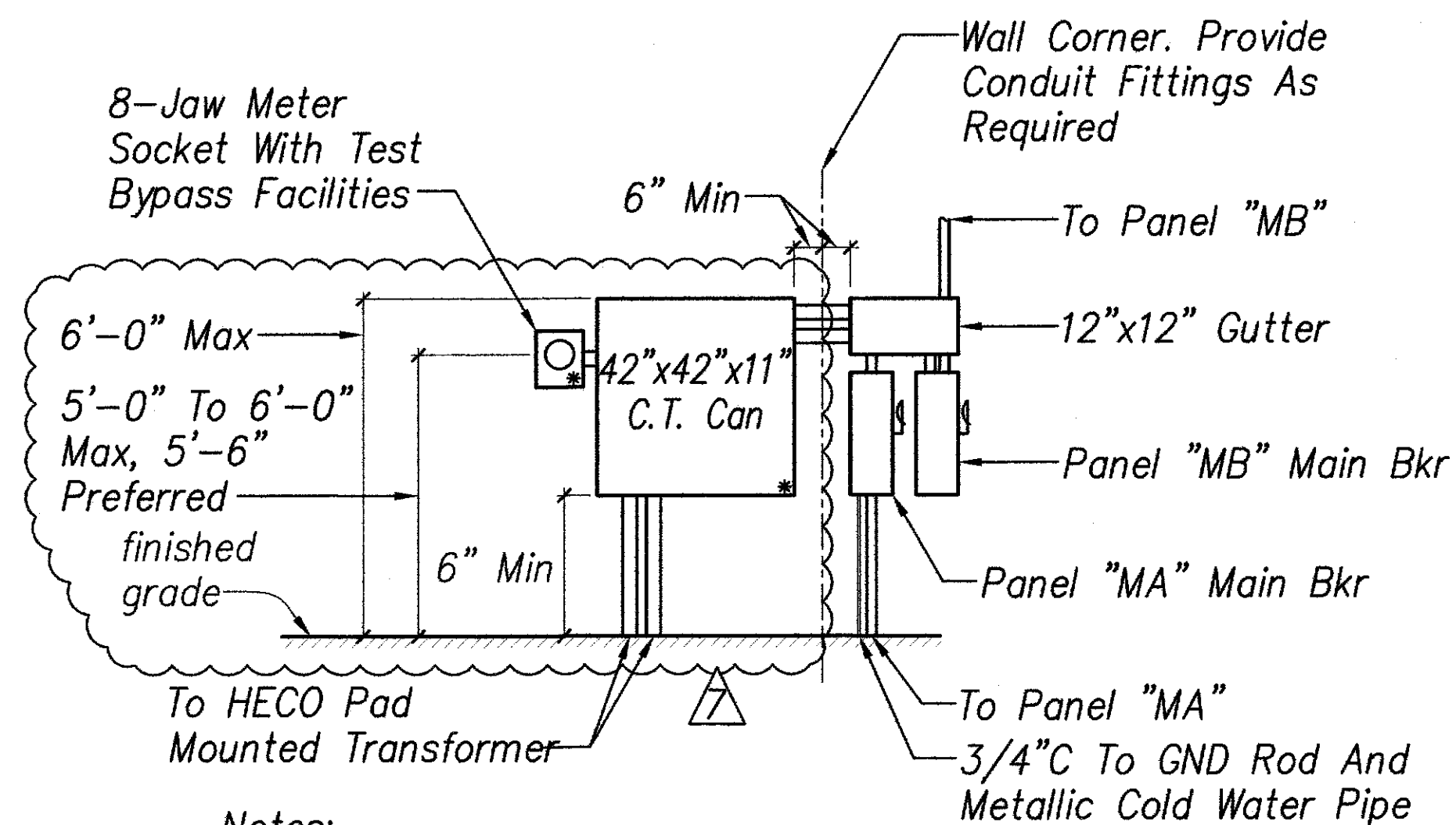
A
E1.1|E3.0



**SINGLE LINE
DIAGRAM - DEMOLITION WORK**

Scale - NTS

A
E3.0|E3.0



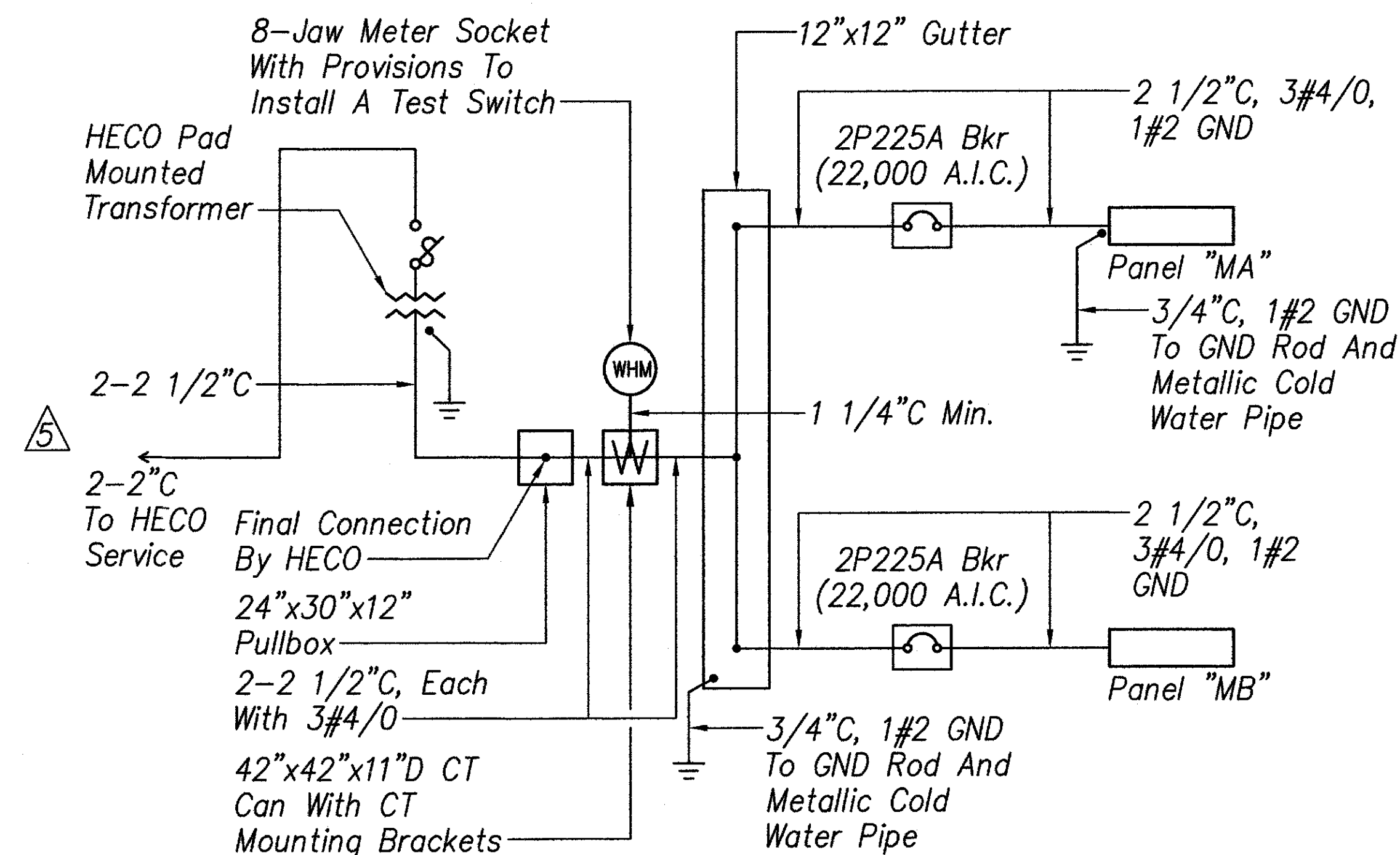
Notes:

1. All enclosures shall be NEMA 3R.
2. * - Indicates sealable enclosure.
3. Provide permanent identification labels for all meter sockets to identify the unit or space served.
4. Provide a minimum of 4 feet clear and level workspace clearance in front of metering and service equipment.

**ELECTRICAL SERVICE EQUIPMENT
ELEVATION - NEW WORK**

Scale - 3/8" = 1'-0"

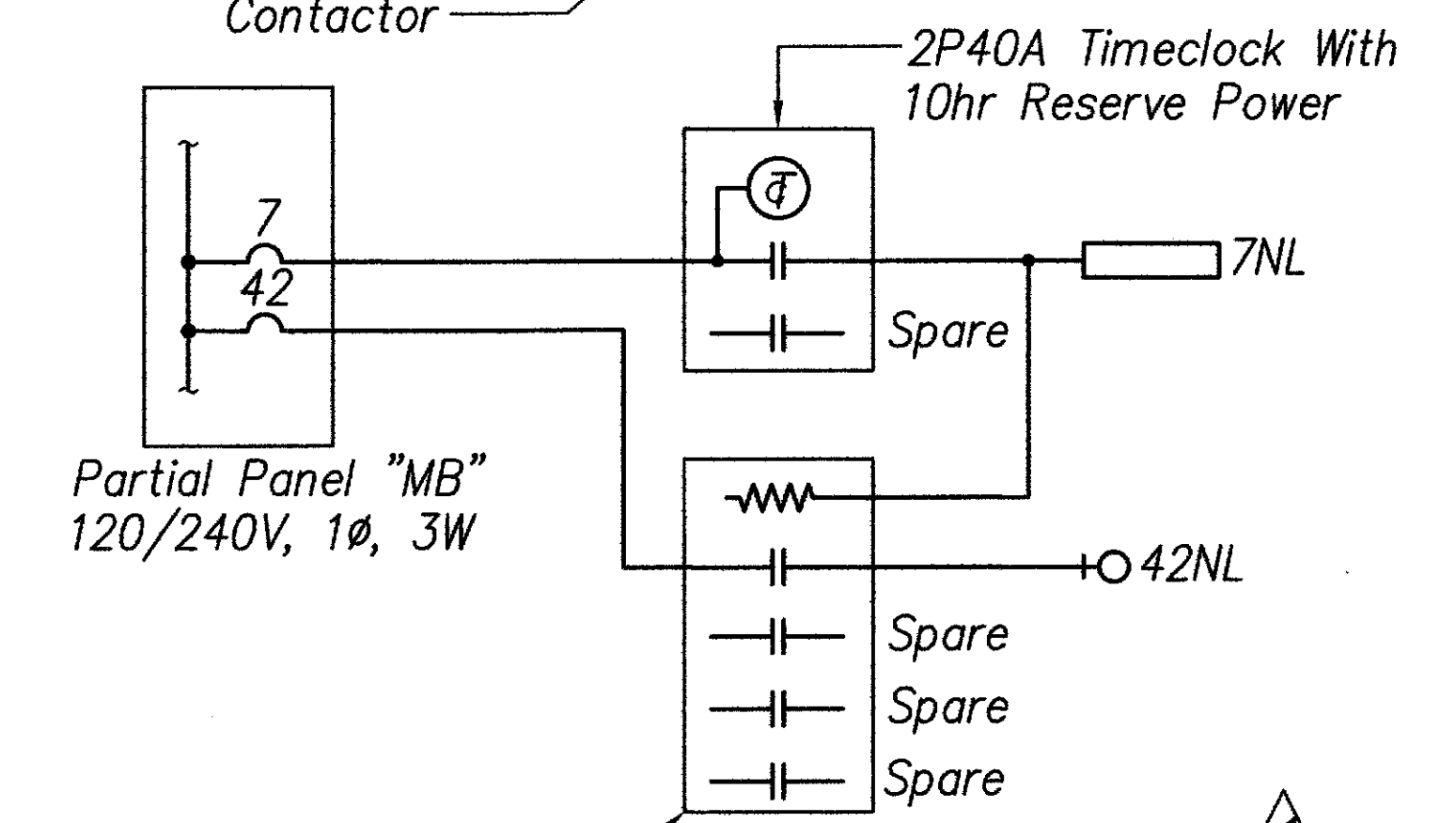
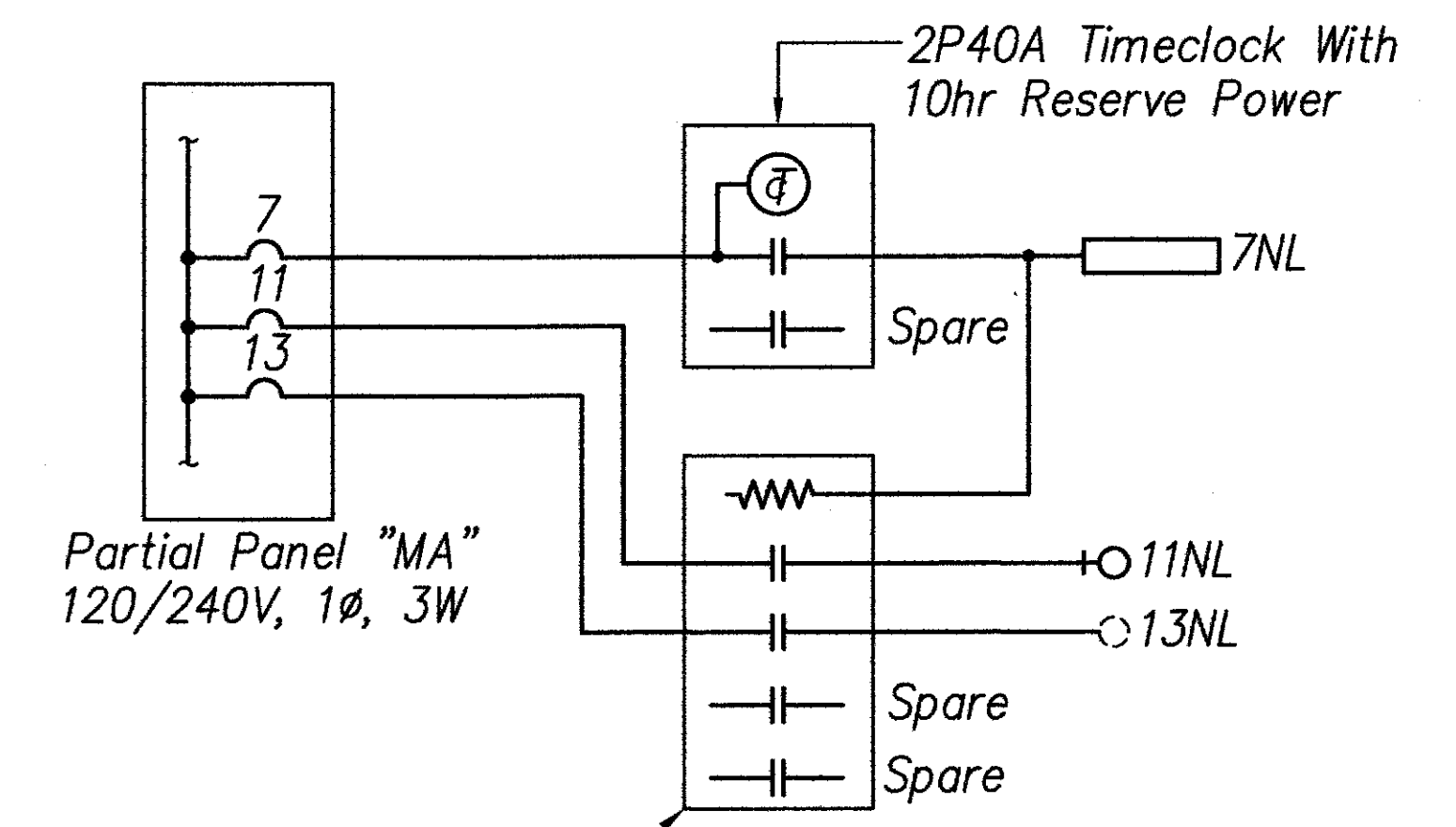
B
E1.2,E2.4|E3.0



**SINGLE LINE
DIAGRAM - NEW WORK**

Scale - NTS

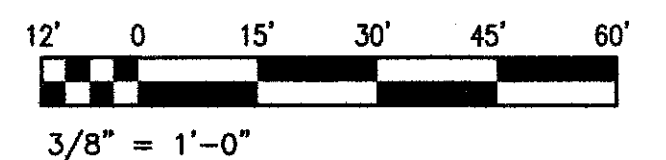
B
E3.0|E3.0



**NIGHT LIGHT
CONTROL WIRING DIAGRAM**

Scale - NTS

E
E3.0|E3.0



1/23/2018	△ Revise Service Equipment
4/12/2017	△ Revise HECO Ductline
6/1/2016	△ Revise Night Light Control Wiring Diagram
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**ELECTRICAL SERVICE EQUIPMENT
ELEVATIONS, DIAGRAMS**

**MOTOR VEHICLE SAFETY OFFICE
RENOVATION**

Project No. HWY-0-02-08R

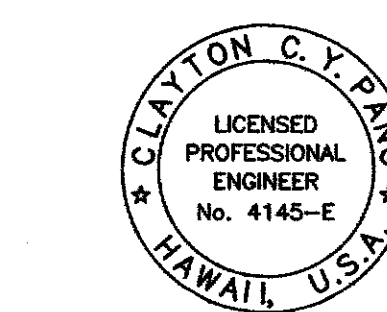
Scale: As Noted

Date: April, 2016

SHEET No. E3.0 OF 69 SHEETS

C.O.ADD.67

DATE	DESIGNED BY	CHECKED BY
1/23/2018	CLAYTON C.Y. PANG	CLAYTON C.Y. PANG
4/12/2017	CLAYTON C.Y. PANG	CLAYTON C.Y. PANG
6/1/2016	CLAYTON C.Y. PANG	CLAYTON C.Y. PANG
ORIGINAL PLAN	NOTE BOOK	No.



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

New Panel "MA" 240/120 Volts 1Ø, 3WSN 3P225A Main Breaker Branch Breaker I.C. 22,000 Amps Flush, 20" Wide Cabinet, Industrial Bolted					
CKT NO.	BKR	L O A D	KVA		WIRE
			L1	L2	
1	1P20A	Lights/Ef-A1/EF-A2	1.1		12
2		Recep	1.0		
3		Lights		1.0	
4		Recep		1.0	
5		Lights	0.9		
6		Recep	1.0		
7		Lights - NL		0.7	10
8		Recep		1.0	12
9		Condensate Pumps	1.5		10
10		Recep	1.0		12
11		Lights - Courtyard NL		0.9	6
12		Recep		1.0	12
13		Lights - Under Deck NL	1.0		6
14		Recep	1.0		12
15		Recep		0.4	
16		Recep		1.0	
17		Recep - EWC	1.0		
18		Recep	1.0		
19,21	2P40A	Cu-A1	3.0	3.0	8
20	1P20A	Recep		1.0	12
22,24	2P30A	Cu-0-A1	1.7	1.7	10
23,25	2P40A	Cu-A2	3.0	3.0	8
26,28	2P40A	Cu-A3	2.4	2.4	8
27,29	2P40A	Cu-A4	2.9	2.9	8
30,32	2P15A	Fcu-A1	0.6	0.6	12
31,33	2P15A	Fcu-A2	0.6	0.6	12
34,36	2P15A	Fcu-A3	0.6	0.6	12
35	1P20A	Oaf-0-A1	0.1		12
37	1P20A	Motorized Dampers		0.6	12
38		Fire Smoke Dampers		0.4	12
39		Spare			
40					
41					
42					
T O T A L S :			25.4	23.8	

New Panel "MB" 240/120 Volts 1Ø, 3WSN 225A Main Lugs Only Branch Breaker I.C. 22,000 Amps Flush, 2-20" Wide Cabinet, Industrial Bolted						New Panel "MB" (Continued)					
CKT NO.	BKR	L O A D	KVA		WIRE	CKT NO.	BKR	L O A D	KVA		WIRE
			L1	L2					L1	L2	
1	1P20A	Lights	0.8		12	31,33	2P15A	Fcu-B3	0.6	0.6	12
2		Recep	1.0			32,34	2P15A	Fcu-B4	0.6	0.6	12
3		Lights		0.8							
4		Recep		1.0							
5		Lights/Ef-B1/EF-B2	0.9			35	1P20A	Motorized Dampers	0.4		12
6		Recep	1.0			36		Fire Smoke Dampers, Duct Smoke Detector	0.8		
7		Lights - NL		0.6	10	37		Recep		0.2	
8		Recep		1.0	12	38,40	2P30A	Htr-1	3.0	3.0	8
9			1.0			39	1P20A	Rolling Counter Fire Door	1.5		12
10			1.0								
11				1.0		41	1P20A	Recep - EWC		1.0	12
12				1.0		42		Lights - Courtyard NL		0.5	6
13			1.0			43		Spare			
14			1.0			44					
15				1.0		45					
16				1.0		46					
17		FA Panel	1.0			47					
18		Recep	1.0			48					
19,21	2P40A	Cu-B1	3.0	3.0	8	49	1P	P F B			
20,22	2P40A	Cu-B2	3.0	3.0	8	50					
						51					
						52					
23,25	2P40A	Cu-B3	3.0	3.0	8	53					
24,26	2P40A	Cu-B4	3.0	3.0	8	54					
						55					
						56					
27,29	2P15A	Fcu-B1a/Fcu-B1b/Fcu-B1c/Fcu-B1d/Fcu-B1e	0.2	0.2	12	57					
28,30	2P15A	Fcu-B2a/Fcu-B2b/Fcu-B2c	0.2	0.2	12	58					
						59					
						60					
T O T A L S :									29.0	25.7	

SURVEY PLOTTED BY _____ DATE _____
DESIGNED BY _____
NOTED BY _____
CHECKED BY _____
ORIGINAL PLAN _____
NOTE BOOK _____
No. _____



Signature of Clayton C. Y. Pang
EXPIRATION DATE OF THE LICENSE 4/30/2016
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

11/17/17	6 Add Condensate Pumps
4/12/2017	5 Revise Panel Schedules For Revised CU's
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
PANEL SCHEDULES	
MOTOR VEHICLE SAFETY OFFICE RENOVATION Project No. HWY-0-02-08R Scale: As Noted Date: April, 2016	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-02-08R	2016	69	69

FIRE ALARM NOTES

1. (2) - Indicates number of #14 wires, 2-wires indicated.

Detection, Alarm, and Communication Systems

- 13.7.1.1 Where building fire alarm systems or automatic fire detectors are required by other sections of this code, they shall be provided and installed in accordance with NFPA 70, NFPA 72, National Fire Alarm Code, and Section 13.7. 2012 NFPA 1.
- 13.7.1.3 ALI apparatus requiring rewinding or resetting to maintain normal operation shall be rewound or reset as promptly as possible after each test and alarm. All test signals received shall be recorded to indicate date, time, and type. [72:10.5.4]
- 13.7.1.4 The provisions of section 13.7 shall apply only where specifically required by another section of this code. [101:9.6.1.1]
 13.7.1.4.1 Fire detection, alarm, and communication systems installed to make use of an alternative permitted by this code shall be considered required systems and shall meet the provisions of this code applicable to required systems. [101:9.6.1.2]
 13.7.1.4.3* To ensure operational integrity, the fire alarm system shall have an approved maintenance and testing program complying with the applicable requirements of section 13.4 and 13.7. [101:9.6.1.5]
 13.7.1.4.4* Where a required fire alarm system is out of service for more than 4 hours in a 24-hour period, the AHJ shall be notified, and the building shall be evacuated or an approved fire watch shall be provided for all parties left unprotected by the shutdown until the fire alarm system has been returned to service. [101:0.6.1.6]
 13.7.1.4.5 For the purposes of this code, a complete fire alarm system shall provide functions for initiation, notification, and control, which shall perform as follows:
 - (1) The initiation function provides the input signal to the system.
 - (2) The notification function is the means by which the system advises that human action is required in response to a particular condition.
 - (3) The control function provides output to control building equipment to enhance protection of life. [101:9.6.1.7]
- 13.7.1.4.9.8 Audibility. The alarm signal shall be a distinctive sound, which is not used for any other purpose other than the fire alarm. Alarm-signaling devices shall produce a sound that exceeds the prevailing equivalent sound level in the room or space by 15 decibels minimum, or exceeds any maximum sound level with a duration of 60 seconds minimum by 5 decibels minimum, whichever is louder. Sound levels for alarm signals shall be 120 decibels Maximum. 2012 NFPA 1, amended.
 Ensure audibility is met through all occupiable areas and spaces. This will be thoroughly checked at time of alarm acceptance test.

- Approval and Acceptance
 13.7.3.2.1.2 Before requesting final approval of the installation, if required by the AHJ, the installing contractor shall furnish a written statement that the system has been installed in accordance with approved plans and tested in accordance with the manufacturer's specifications and the appropriate NFPA requirements. [72:4.5.1.2]
 13.7.3.2.1.3* The record of completion form, Figure 4.5.2.1 of NFPA 72, shall be permitted to be a part of the written statement required in 13.7.3.2.1.2. When more than one contractor has been responsible for the installation, each contractor shall complete the portions of the form for which that contractor had responsibility.
 13.7.3.2.1.4 The record of completion form, Figure 4.5.2.1 of NFPA 72 shall be permitted to be a part of the documents that support the requirements of 13.7.3.2.1.3. 2012 NFPA 1.

- Manual Fire Alarm Boxes
 13.7.1.4.7.3 A manual fire alarm box shall be provided in the natural exit access path near each required exit from an area, unless modified by another section of this code.
 13.7.1.4.7.4* Additional manual fire alarm boxes shall be located so that, on any given floor in any part of the building, no horizontal distance on that floor exceeding 200 ft (670m) shall need to be traversed to reach a manual fire alarm box. [9.6.2.4]
 13.7.3.3.6 Manual fire alarm boxes shall be located within 5 ft (1.5m) of the exit doorway opening at each exit on each floor. The location of manual fire alarm boxes may be modified by the AHJ. 2012 NFPA 1, amended.

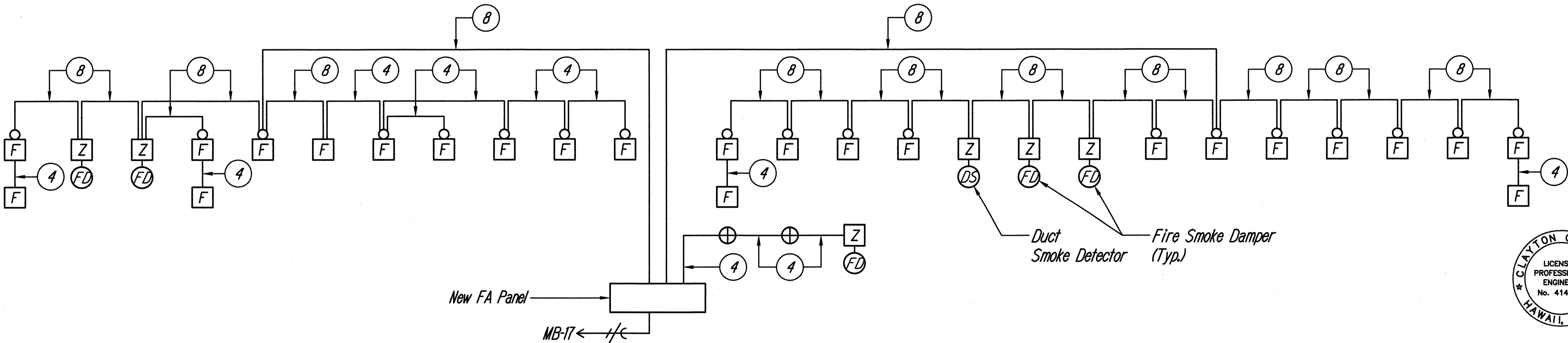
- Notification Devices
 13.7.1.4.9.5 Unless otherwise provided in 13.7.1.4.9.5.1 through 13.7.1.4.9.5.6, notification signals for occupants to evacuate shall be audible and visible signals in accordance with NFPA 72 and ICC/ANSI A117.1, American Standard for Accessible and Usable Buildings and Facilities, or other means of notification acceptable to the AHJ shall be provided. NFPA 1 2012, Chapter 13 as amended.
- 13.7.1.4.9.5.1 Areas not subject to occupancy by persons who are hearing impaired shall not be required to comply with the provisions for visible signals. NFPA 1 2012, Chapter 13 as amended.

- Fire alarm system design, installation, testing and maintenance shall be in accordance with NFPA 72, National Fire Alarm Code, NFPA 1, 2012 and NFPA 101.
- Chapter 4 Fundamentals of Fire Alarm Systems
 4.4.1.4.2 Mechanical protection 4.4.1.4.2.2 circuit disconnection means should have a red marking, shall be accessible only to authorized personnel and shall be identified as "Fire Alarm Circuit".

- 4.4.1.4.3 The location of the circuit disconnect means shall be permanently marked at the fire alarm control panel.
- 10.5.3.3 Service Personnel
 Service personnel shall be qualified in the maintenance and servicing of systems addressed within the scope of the code. Qualified personnel shall include, but not be limited to, one or more of the following:
 - 1) Personnel who are factory trained and certified for the specific type and brand of system being serviced.
 - 2) Personnel who are certified by a nationally recognized certification organization acceptable to the Authority Having Jurisdiction.
 - 3) Personnel, either individually or through their affiliation with an organization that is registered, licensed, or certified by a state or local authority to perform service on systems addressed within the scope of this code.

13.7.1.4.3 TO ensure operational integrity, the fire alarm system shall have an approved maintenance and testing program complying with the applicable requirements of Sections 13.4 and 13.7. [101:9.6.1.5]

- Section 18-5.2 Retention of Plans
 One set of approved plans, specifications, and computations shall be retained by the building official for a period of not less than 90 days from date of completion of the work covered therein, and one set of approved plans shall be returned by the applicant, and said set shall be kept on the site of the building or work at all times during which the owkr authorized therby is in progress. Sec. 19-5.2 R.O. 1978 (1983 ED.); Am. Ord. 93-59



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

OPERATION DATE OF THE LICENSE 4/30/2016
 THIS WORK WAS PREPARED BY
 ME OR UNDER MY SUPERVISION

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

**FIRE ALARM RISER DIAGRAM,
 FIRE ALARM NOTES**

**MOTOR VEHICLE SAFETY OFFICE
 RENOVATION**

Project No. HWY-0-02-08R

Scale: As Noted Date: April, 2016

SHEET No. E32 OF 69 SHEETS