ELECTRICAL LEGEND

NEW	DESCRIPTION
	1 x 4 LUMINAIRE
	1 x 4 LUMINAIRE WITH EMERGENCY BATTERY PACK
	1 x 4 SURFACE MOUNTED LUMINAIRE
	1 x 4 SURFACE MOUNTED LUMINAIRE WITH EMERGENCY BATTERY PACK
	CEILING MOUNTED LUMINAIRE
	RECESSED LUMINAIRE
	WALL MOUNTED FLUORESCENT LUMINAIRE
	WALL MOUNTED LUMINAIRE
	EMERGENCY LIGHTING UNIT
	POLE WITH ARM MOUNTED LUMINAIRE
	WALL MOUNTED EXIT SIGN. DARKENED SEGMENT INDICATES ILLUMINATED SIDE. ARROWS INDICATE DIRECTIONAL ARROWS
	CEILING MOUNTED EXIT SIGN. DARKENED SEGMENT INDICATES ILLUMINATED SIDE. ARROWS INDICATE DIRECTIONAL ARROWS
18L-1,a	SUBSCRIPT ADJACENT TO LUMINAIRE INDICATES PANEL, CIRCUIT NUMBER AND SWITCH IDENTIFICATION
A	LUMINAIRE TYPE IDENTIFIER, TYPE "A" INDICATED
$	TOGGLE SWITCH SINGLE POLE, +48" MAX TO TOP OF DEVICE UNLESS OTHERWISE NOTED
$a	TOGGLE SWITCH SINGLE POLE, +48" MAX TO TOP OF DEVICE UNLESS OTHERWISE NOTED. SUBSCRIPT CORRESPONDS WITH CONTROLLED LUMINAIRES OR DEVICES
$3	TOGGLE SWITCH 3-WAY, +48" MAX TO TOP OF DEVICE UNLESS OTHERWISE NOTED. SUBSCRIPT CORRESPONDS WITH CONTROLLED LUMINAIRES OR DEVICES
$a	DIMMER SWITCH, +48" MAX TO TOP OF DEVICE UNLESS OTHERWISE NOTED
	WALL MOUNTED OCCUPANCY SENSOR, +48" MAX TO TOP OF DEVICE UNLESS OTHERWISE NOTED
OS	CEILING MOUNTED OCCUPANCY SENSOR, OMNI DIRECTIONAL TYPE
	DUPLEX RECEPTACLE, +18" UNLESS OTHERWISE NOTED
	DUPLEX RECEPTACLE, GFCI TYPE, +18" UNLESS OTHERWISE NOTED
WP	DUPLEX RECEPTACLE, GFCI TYPE, WITH WEATHERPROOF COVER +18" UNLESS OTHERWISE NOTED
	FLOOR MOUNTED POWER OUTLET
E	EQUIPMENT CONNECTION
J	CEILING MOUNTED JUNCTION BOX, 4-11/16" SQUARE
J	WALL MOUNTED JUNCTION BOX, 4-11/16" SQUARE
J	JUNCTION BOX, SIZE AS NOTED
	TELEDATA OUTLET PROVISION, +18" UNLESS OTHERWISE NOTED
V	WALL MOUNTED TELEVISION OUTLET PROVISION, +18" UNLESS OTHERWISE NOTED
	PANELBOARD
	TELEVISION/TELEPHONE BACKBOARD, 3/4" THICK PLYWOOD, SIZE AS NOTED
T	DRY TYPE TRANSFORMER, SIZE AND RATING AS INDICATED
	DISCONNECT SWITCH, SIZE AND RATING AS NOTED
	RACEWAY AND CONDUCTORS BELOW FLOOR OR GRADE
	RACEWAY AND CONDUCTORS CONCEALED
	CONDUIT STUB OUT
	FLEX CONNECTION
18L-23	PANEL AND CIRCUIT DESIGNATION
#	SHEET NOTE, SEE SAME SHEET

GENERAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE 2006 INTERNATIONAL BUILDING CODE (2006 IBC), THE LATEST CITY AND COUNTY OF HONOLULU AMENDMENTS AND ORDINANCES, AND THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINE. STRUCTURES UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION OPERATIONS, INCLUDING THOSE IN UNDERGROUND LOCATIONS, SHALL COMPLY WITH NFPA 241, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS, AND THIS CHAPTER 2012 NFPA 1.

2. VERIFY THE DIMENSIONS SHOWN ON THE DRAWINGS WITH ACTUAL FIELD MEASUREMENTS, EXAMINE THE JOB SITE, VERIFY ALL FIELD CONDITIONS AND PROVIDE THE LABOR AND MATERIALS REQUIRED TO COMPLETE THE INTENDED WORK. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ELECTRICAL ENGINEER OF ANY KNOWN OR SUSPECTED ERROR, OMISSION OR DISCREPANCY IN WRITING PRIOR TO COMMENCEMENT OF SUCH WORK IN QUESTION.

3. THE DRAWINGS ARE INTENDED TO DEFINE AND ESTABLISH THE PHYSICAL REQUIREMENTS OF THE PROJECT, I.E., THE DESIGN, LOCATION AND DIMENSIONS OF THE WORK. THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL SUBCONTRACTORS/TRADES TO ACHIEVE THE DESIGN INTENT AND SPECIFIED REQUIREMENTS AND IS RESPONSIBLE TO COMPLETE ANY AND ALL WORK ASSOCIATED WITH SUCH COORDINATION.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION, INCLUDING SAFETY PRECAUTION.

5. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN AND PAY FOR ALL PERMITS, FEES, INSPECTIONS AND LICENSES FOR THE WORK AND OBTAIN ALL GOVERNMENTAL AGENCY CERTIFICATIONS AND TO FILE THE NOTICE OF COMPLETION.

6. THE CONTRACTOR SHALL GUARANTEE THE INSTALLATION, MATERIALS AND WORKMANSHIP OF ALL WORK FOR (1) ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION. PRODUCT AND SYSTEM WARRANTIES SHALL BE EFFECTIVE FROM THE "DATE OF FINAL ACCEPTANCE" BY THE OWNER/ARCHITECT AND FOR THE PERIOD ESTABLISHED BY THE MANUFACTURER/INSTALLER, OR AS SPECIFICALLY DEFINED IN THE OWNER/CONTRACTOR AGREEMENT.

7. THE CONTRACTOR SHALL CLEAN AND REMOVE ANY TRASH, DIRT, DEBRIS AND SPILLAGE ARISING FROM THE WORK SITE DAILY TO THE SATISFACTION OF THE OWNER.

8. CLOSE OUT DOCUMENTS INCLUDING BUT NOT LIMITED TO "AS BUILT" DRAWINGS, WARRANTIES AND MAINTENANCE MANUALS, ETC. SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER TO BE INCORPORATED INTO THE "PROJECT CLOSE-OUT" DOCUMENTS TO BE SUBMITTED TO THE OWNER AT THE COMPLETION OF THE PROJECT.

POWER BUDGET

	INTERIOR					EXTERIOR				
FLR	IECC COMMON SPACE TYPE	LPD (WATTS/SQFT)	SQFT	TOTAL WATTAGE ALLOWED (W)	TOTAL WATTAGE INSTALLED (W)	IECC COMMON SPACE TYPE	LPD (WATTS/SQFT)	SQFT	TOTAL WATTAGE ALLOWED	TOTAL WATTAGE INSTALLED
1	PARKING AREA (INTERIOR)	0.19	12779	2428.01	1962	ZONE 2 BASE PER IECC TABLE C405.5.2(2)	-	-	600	-
	ENTRY LOBBY (OTHERWISE)	0.9	275	247.5	35.5	MAUKA WALKWAY	0.14	1051	147.14	149
	LIFT LOBBY	0.64	308	197.12	51	STOREFRONT	0.15	1506	225.9	274
	STAIRWELL	0.69	399	275.31	69					
	ELECTRICAL/MECHANICAL ROOM	0.95	1976	1877.2	474					
	TRASH (STORAGE ROOM)	0.63	226	142.38	38					
	CORRIDOR (OTHERWISE)	0.19	919	174.61	252					
	RESTROOM (OTHERWISE)	0.98	360	352.8	108					
	COMMERCIAL LOFTS (FAMILY DINING)	0.89	5891	5242.99	175					
	COMMUNITY ROOM	0.73	383	279.59	72					
1 MEZZ	PARKING AREA (INTERIOR)	0.19	7249	1377.31	284	N/A				
	LIFT LOBBY	0.64	131	83.84	24					
	STAIRWELL	0.69	133	91.77	23					
2	PARKING AREA (INTERIOR)	0.19	21432	4072.08	1207	N/A				
	LIFT LOBBY	0.64	373	238.72	42					
	STAIRWELL	0.69	399	275.31	69					
	ELECTRICAL/MECHANICAL ROOM	0.95	51	48.45	36					
	LOBBY & MAIL (OTHERWISE)	0.9	938	844.2	108					
	SECURITY	1.11	102	113.22	36					
3	PARKING AREA (INTERIOR)	0.19	21432	4072.08	923	N/A				
	LIFT LOBBY	0.64	373	238.72	42					
	STAIRWELL	0.69	399	275.31	69					
	ELECTRICAL/MECHANICAL ROOM	0.95	51	48.45	36					
4	PARKING AREA (INTERIOR)	0.19	21432	4072.08	923	N/A				
	LIFT LOBBY	0.64	373	238.72	42					
	STAIRWELL	0.69	399	275.31	69					
	ELECTRICAL/MECHANICAL ROOM	0.95	51	48.45	36					
5	PARKING AREA (INTERIOR)	0.19	21432	4072.08	923	N/A				
	LIFT LOBBY	0.64	373	238.72	42					
	STAIRWELL	0.69	399	275.31	69					
	ELECTRICAL/MECHANICAL ROOM	0.95	51	48.45	36					
6	CORRIDOR (OTHERWISE)	0.19	713	135.47	72	REC DECK	0.14	19877	2782.78	1428
	LIFT LOBBY	0.64	177	113.28	18					
	STAIRWELL	0.69	399	275.31	92					
	ELECTRICAL/MECHANICAL ROOM	0.95	369	350.55	131					
	GYM	0.72	559	402.48	156					
	LOUNGE, GAME RM, MULTI-FUNCTION RM, THEATER (OTHERWISE)	0.73	1702	1242.46	387					
	RESTROOM (OTHERWISE)	0.98	271	265.58	72					
	MANAGER'S OFFICE	1.11	245	271.95	78					
	TRASH (STORAGE ROOM)	0.63	117	73.71	36					
7 THRU 26	CORRIDOR (OTHERWISE)	0.66	619	408.54	48	N/A				
	LIFT LOBBY	0.64	181	115.84	18					
	STAIRWELL	0.69	399	275.31	46					
	ELECTRICAL/MECHANICAL ROOM	0.95	63	59.85	59					
	TRASH (STORAGE ROOM)	0.63	38	23.94	23					
RP	LIFT LOBBY	0.64	181	115.84	36	N/A				
	STAIRWELL	0.69	133	91.77	23					
	ELECTRICAL/MECHANICAL ROOM	0.95	245	232.75	108					
TOTAL				**36720.72 WATTS ALLOWED**	**9678.5 WATTS INSTALLED**				**3755.82 WATTS ALLOWED**	**1851 WATTS INSTALLED**

BUILDING ENERGY EFFICIENCY STANDARDS

EXTERIOR LIGHTING POWER ALLOWANCE 3,755 W INSTALLED 1,851 W

INTERIOR LIGHTING POWER ALLOWANCE 36,720 W INSTALLED 9,678 W

METHOD USED: (CHECK ONE) PRESCRIPTIVE X SYSTEM PERFORMANCE _____

CALCULATIONS: (CHECK ONE) SEPARATE _____ ON DRAWINGS X

CITY AND COUNTY OF HONOLULU
REVISED ORDINANCE CHAPTER 32,
HONOLULU COUNTY CODE 1990, AS AMENDED

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

_____ Building Component Systems
X Electrical Component Systems
_____ Mechanical Component Systems

DEREK H. FUJIKAMI LICENSED PROFESSIONAL ENGINEER No. 7246-E HAWAII, U.S.A.

Signature: _____ Date: 7/20/18
Name: DEREK H. FUJIKAMI
Title: ELECTRICAL ENGINEER
License No: 7246-E

FSC ARCHITECTS

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DEREK H. FUJIKAMI LICENSED PROFESSIONAL ENGINEER No. 7246-E HAWAII, U.S.A.

NOTE: CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AT JOB BEFORE PROCEEDING WITH WORK.

DEVELOPER:
CALIFORNIA INVESTMENT REGIONAL CENTER, LLC

PROJECT OWNER:
HAWAII CITY PLAZA, LP

Hawaii City Plaza
Honolulu, Hawaii
710 Sheridan Street
TMK 2-3-014: Parcels 002, 004, & 011

PERMIT SET

DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
ELECTRICAL GENERAL NOTES & LEGEND

SHEET NO.
E0.001

HAWAIIAN TELCOM GENERAL CONSTRUCTION/DESIGN NOTES

1. THE CONTRACTOR SHALL PROCURE AND PAY FOR ALL LICENSES AND PERMITS AND SHALL GIVE ALL NOTICES NECESSARY AND INCIDENT TO THE DUE AND LAWFUL PROSECUTION OF THE WORK.

2. THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT AND TONING REQUEST FROM HAWAIIAN TELCOM'S EXCAVATION PERMIT SECTION, LOCATED AT 1177 BISHOP STREET, TWO WEEKS PRIOR TO THE START OF CONSTRUCTION. HOURS OF BUSINESS ARE 8:00 A.M. TO 11:00 A.M. AND 12:00 P.M. TO 3:00 P.M. MONDAY THROUGH FRIDAY, EXCEPT HOLIDAYS.

3. PRIOR TO THE EXCAVATION OF THE DUCTLINE, THE CONTRACTOR SHALL REQUEST HAWAIIAN TELCOM TO LOCATE EXISTING DUCTLINE WHEREVER REQUIRED. FOR UNDERGROUND CABLE LOCATING AND MARKING, FIVE (5) WORKING DAYS ADVANCE NOTICE IS REQUIRED. THREE (3) WORKING DAYS ADVANCE NOTICE IS REQUIRED FOR ANY INSPECTION BY A DESIGNATED REPRESENTATIVE.

4. THE LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION AND SHALL MAINTAIN PROPER CLEARANCES WHENEVER CONSTRUCTION CROSSES OR IS IN CLOSE PROXIMITY OF HAWAIIAN TELCOM FACILITIES. THE CONTRACTOR SHALL VERIFY THEIR LOCATIONS AND SHALL BE LIABLE FOR ANY DAMAGES TO HAWAIIAN TELCOM FACILITIES. ANY DAMAGES SHALL BE REPORTED IMMEDIATELY TO HAWAIIAN TELCOM'S REPAIR SECTION AT #611 (24 HOURS) OR TO THE EXCAVATION PERMIT SECTION AT 546-7746 (NORMAL WORKING HOURS, MONDAY THROUGH FRIDAY, EXCEPT HOLIDAYS). AS A RESULT OF HIS OPERATIONS, ADJUSTMENTS TO THE NEW DUCTLINE ALIGNMENT, IF REQUIRED, SHALL BE MADE TO PROVIDE THE REQUIRED CLEARANCES.

5. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTION NOT TO DAMAGE EXISTING CABLES OR DUCTS. A HAWAIIAN TELCOM INSPECTOR OR DESIGNATED REPRESENTATIVE IS REQUIRED TO BE AT ANY JOB SITE WHENEVER THERE WILL BE A BREAKAGE INTO OR ENTRY INTO ANY STRUCTURE THAT CONTAIN HAWAIIAN TELCOM FACILITIES. TEMPORARY CABLE AND DUCT SUPPORTS SHALL BE PROVIDED WHEREVER NECESSARY.

6. THE CONTRACTOR SHALL NOTIFY HAWAIIAN TELCOM'S INSPECTOR OR DESIGNATED REPRESENTATIVE A MINIMUM OF 72 HOURS PRIOR TO EXCAVATION, BRACING, OR BACKFILLING OF HAWAIIAN TELCOM'S STRUCTURES OR FACILITIES.

7. ALL APPLICABLE CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE "HAWAIIAN TELCOM STANDARD SPECIFICATIONS FOR PLACING TELEPHONE SYSTEMS" DATED JANUARY 2007, ALL SUBSEQUENT AMENDMENTS AND ADDITIONS, AND ALL OTHER PERTINENT STANDARDS FOR TELEPHONE CONSTRUCTION. CONTRACTOR SHALL FAMILIARIZE HIS PERSONNEL BY OBTAINING APPLICABLE SPECIFICATIONS.

8. WHEN EXCAVATION IS ADJACENT TO OR BENEATH HAWAIIAN TELCOM'S EXISTING STRUCTURES OR FACILITIES, THE CONTRACTOR SHALL:
   a) SHEET AND/OR BRACE THE EXCAVATION TO PREVENT SLIDES, CAVE-INS, OR SETTLEMENTS TO ENSURE NO MOVEMENT TO HAWAIIAN TELCOM'S STRUCTURES OR FACILITIES.
   b) PROTECT EXISTING STRUCTURES AND/OR FACILITIES WITH BEAMS, STRUTS, OR UNDERPINNING WHILE EXCAVATING BENEATH THEM TO ENSURE NO MOVEMENT TO HAWAIIAN TELCOM'S STRUCTURES OR FACILITIES.

9. THE CONTRACTOR SHALL BRACE ALL POLES OR LIGHT STANDARDS NEAR THE NEW DUCTLINE, MANHOLE, OR HANDHOLE DURING HIS OPERATIONS

10. THE CONTRACTOR SHALL SAW-CUT A.C. PAVEMENT AND CONCRETE GUTTER WHEREVER NEW MANHOLES, HANDHOLES, OR DUCTLINES ARE TO BE PLACED AND SHALL RESTORE TO EXISTING CONDITION OR BETTER.

11. THE CONTRACTOR SHALL COMPLY WITH THE POLICY ADOPTED BY THE DEPARTMENT OF PLANNING AND PERMITTING, CITY AND COUNTY OF HONOLULU, CONCERNING THE REPLACEMENT OF CONCRETE SIDEWALKS AFTER EXCAVATION WORK.

12. THE UNDERGROUND PIPES, CABLES, OR DUTLINES KNOWN TO EXIST BY THE ENGINEER FROM HIS SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THE AREA. WHEREVER CONNECTIONS OF NEW UTILITIES TO EXISTING UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS AND DEPTHS PRIORTO EXCAVATION FOR NEW LINES.

13. WHEREVER CONNECTIONS TO EXISTING UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES PRIOR TO EXCAVATION OF THE MAIN TRENCHES TO VERIFY THEIR LOCATIONS AND DEPTHS.

14. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AND SURROUNDING AREA FREE FROM DUST NUISANCE. THE COST FOR SUPPLEMENTARY MEASURES, WHICH WILL BE REQUIRED BY THE CITY AND COUNTY, SHALL BE BORNE BY THE CONTRACTOR.

15. THE CONTRACTOR SHALL PUMP ALL MANHOLES DRY DURING FINAL INSPECTION.

16. THE CONTRACTOR SHALL NOTIFY HAWAIIAN TELCOM INSPECTOR 24 HOURS PRIOR TO THE POURING OF CONCRETE OR BACKFILLING.

17. WHEN CONNECTING TO MANHOLE WALLS, ALL EXISTING REINFORCING BARS SHALL BE LEFT INTACT. DUCTS SHALL BE ADJUSTED IN THE FIELD IN ORDER TO CLEAR REINFORCING.

18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT ALL REQUIRED LINES AND GRADES AND SHALL PRESERVE ALL BENCH MARKS AND WORKING POINTS NECESSARY TO LAY OUT THE WORK CORRECTLY. THE NEW DUCTLINE SHALL BE ADJUSTED BY THE CONTRACTOR TO SUIT THE EXISTING CONDITIONS AND THE DETAILS AS DESCRIBED IN THE PLANS.

19. MINIMUM CONCRETE STRENGTH SHALL BE:
    FOR DUCTLINE 2500 PSI AT 28 DAYS
    FOR MANHOLE 3000 PSI AT 28 DAYS OR AS SPECIFIED IN DESIGN NOTES

20. BENDS IN THE DUCT ALIGNMENT, DUE TO CHANGES IN GRADE SHALL HAVE A MINIMUM RADIUS OF 25 FEET. ALL 90 DEGREE C-BENDS AT A POLE OR AT THE BUILDING FLOOR SLAB PENETRATION, SHALL HAVE A BEND RADIUS OF TEN TIMES THE DIAMETER OF THE DUCT OR GREATER.

21. AFTER DUCTLINE HAS BEEN COMPLETED, A MANDREL WITH A SQUARE FRONT NOT LESS THAN 12" LONG AND HAVING A DIAMETER OF 1/4" LESS THAN THE INSIDE DIAMETER OF THE DUCT, SHALL BE PULLED THROUGH EACH DUCT AFTER WHICH A BRUSH WITH STIFF BRISTLES SHALL BE PULLED THROUGH TO MAKE CERTAIN THAT NO PARTICLES OF EARTH, SAND, OR GRAVEL HAVE BEEN LEFT INSIDE. DUCTS SHALL BE COMPLETELY DRY AND CLEAN.

22. ALL DUCTS AND CONDUITS SHALL HAVE AN 1800# POLYESTER MULE-TAPE (NEPTCO, WP1800P, HAWAIIAN TELCOM MATERIAL CODE NO. 571154) INSTALLED THROUGHOUT ITS ENTIRE LENGTH. ALL DUCTS SHALL BE CAPPED TO PREVENT ENTRY OF FOREIGN MATERIAL DURING CONSTRUCTION AND AT THE COMPLETION OF INSTALLATION.

HAWAIIAN TELCOM
GENERAL CONSTRUCTION NOTES WITHIN A BUILDING:

1. METALLIC ENTRANCE CONDUITS SHALL BE GROUNDED.

2. ALL CONDUITS WITHIN BUILDING SHALL:
a) BE INSTALLED IN THE SHORTEST AND STRAIGHTEST POSSIBLE RUN.
b) HAVE NO SECTION LONGER THAN 100 FEET NOR CONTAIN MORE THAN 90-DEGREE BENDS. AN APPROVED SIZED JUNCTION BOX OR GUTTER BOX SHALL BE PLACED IF THIS IS EXCEEDED.
c) HAVE LONG SWEEP RADIUS BENDS BUT THE INSIDE RADIUS OF THE BEND MUST NEVER BE LESS THAN TEN TIMES THE DIAMETER OF THE CONDUIT.

3. DUCTS AND/OR CONDUITS INSTALLED FOR USAGE BY HAWAIIAN TELCOM SHALL BE INSPECTED BY HAWAIIAN TELCOM.

4. ALL CONSTRUCTION MUST BE INSPECTED AND APPROVED BY HAWAIIAN TELCOM PRIOR TO THE INSTALLATION OF ANY OF ITS
FACILITIES AND THE ENERGIZING OF ITS SYSTEMS.

5. CONTRACTOR AND/OR CUSTOMER SHALL PROVIDE HAWAIIAN TELCOM WITH SUFFICIENT INSTALLATION TIME IN THEIR OCCUPANCY TIMETABLE.

6. CONTRACTOR SHALL PROVIDE ALL MATERIALS AND FURNISH ALL LABOR AND EQUIPMENT NECESSARY.

7. THE CONTRACTOR SHALL PROVIDE A 5/8"x8' GALVANIZED GROUND ROD BELOW THE TELEPHONE CABINET OR BACKGROUND AND A #6TW INSULATED GREEN GROUND WIRE WITH A 3' COIL. TELEPHONE CABINETS SHALL BE GROUNDED AND EQUIPPED WITH 3/4" TREATED BACKBOARD. NON-ENCLOSED BACKBOARDS WILL ONLY BE ACCEPTABLE IN SITUATIONS COMPLYING WITH THE CURRENT NATIONAL ELECTRICAL CODE (NEC).

8. INSIDE WIRING (IW) CONDUIT SIZE – DEPENDS ON COSTUMER'S SERVICE NEEDS:

9. MINIMUM SIZE TELCO CABINETS:
   TELEPHONE SERVICE ONLY:
   JUNCTION BOXES: 16X CABLE DIAMETER BUT NOT LESS THAN 4"x4".
   ENTRANCE CABINETS:
   0-50 PAIR CABLE 18"x24"x6"
   50-100PAIR CABLE 24"x36"x6"
   100-400 PAIR CABLE 36"x48"x6"
   NOTE: ENTRANCE TELCO CABINET MUST CONFORM TO NEMA3 SPECIFICATION
   WITH HINGED DOOR AND LOCKING LATCH.

10. RESIDENTIAL TELEPHONE CABLING SHALL CONFORM TO TIA 570-A, GRADE I STANDARDS CONSISTING OF ONE CATEGORY 3 CABLE HAVING MINIMUM OF 3 PAIRS, 24 GAUGE, UNSHIELDED INSULATED TWISTED COPPER WIRES WITH PAIR COLOR CODING OF BLUE-WHITE, ORANGE-WHITE, GREEN WHITE OR RED-GREEN, YELLO-BLACK AND BLUE-WHITE, RESPECTIVELY. ALL INSIDE WIRING (IW) SHALL BE TAGGED (IDENTIFIED) AT EACH SERVING TERMINAL OR NID (NETWORK INTERFACE DEVICE).

FSC ARCHITECTS

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

NOTE: CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AT JOB BEFORE PROCEEDING WITH WORK.

DEVELOPER:
CALIFORNIA INVESTMENT REGIONAL CENTER, LLC

PROJECT OWNER:
HAWAII CITY PLAZA, LP

Hawaii City Plaza
Honolulu, Hawaii
710 Sheridan Street
TMK 2-3-014: Parcels 002, 004, & 011

PERMIT SET

DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
HAWAIIAN TELCOM NOTES

SHEET NO.
E0.002

HAWAIIAN ELECTRIC COMPANY NOTES

1. LOCATION OF HECO FACILITIES
THE LOCATION OF HECO'S 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 PERMIT
THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM HECO'S TECHNICAL DIVISION (543-5654) LOCATED AT 820 WARD AVENUE, 4TH FLOOR, TWO WEEKS PRIOR TO STARTING CONSTRUCTION. PLEASE REFER TO OUR REQUEST NUMBER AT THAT TIME.

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.

5. OVERHEAD LINES
STATE LAW (OSHA 1910.269(K)(2B)) REQUIRES THAT A WORKER AND THE LONGEST OBJECT HE OR SHE MAY CONTACT CANNOT COME CLOSER THAN A MINIMUM RADIAL CLEARANCE OF 10 FEET WHEN WORKING CLOSE TO OR UNDER ANY OVERHEAD LINES RATED 50KV AND BELOW. FOR EACH ADDITIONAL 10KV ABOVE 50KV, AN ADDITIONAL 4 INCHES SHALL BE ADDED TO THE 10-FOOT CLEARANCE REQUIREMENT. THE PRECEDING INFORMATION ON LINE CLEARANCE REQUIREMENTS IS PROVIDED AS A CONVENIENCE AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE INFORMED OF AND COMPLY WITH ANY REVISIONS OR AMENDMENTS TO THE LAW.

SHOULD THE CONTRACTOR ANTICIPATE THAT HIS WORK WILL RESULT IN THE NEED TO ENCROACH WITHIN THE MINIMUM REQUIRED CLEARANCE AT ANY TIME, 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 IDENTIFYNG AND SAFEGUARDING OVERHEAD POWERLINES.

6. 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 LINES. 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 PROVDING 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 MINIMUN 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:
a) ARRAGNING FOR HECO STANDBY PERSONNEL TO OBSERVE WORK AT CONTRACTOR'S COST.
b) 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.
c) PROPERLY SUPPORTING EXISTING STRUCTURES OR FACILITIES WITH BEAMS, STRUTS, UNDER-PINNINGS, OR OTHER NECESSARY METHODS TO FULLY PROTECT IT FROM DAMAGE.
d) BACKFILLING WITH PROPER BACKFILL MATERIAL INCLUDING SPECIAL THERMAL BACKFILL WHERE EXISTING (REFER TO ENGINEERING DEPARTMENT FOR THERMAL BACKFILL SPECIFICATIONS).

10. 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 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 HONOLULU POWER PLANT SHIFT SUPERVISOR AT 533-2102 (A 24-HOUR NUMBER) SO HECO PERSONNEL CAN SECURE THE DAMAGED SECTION AND REPORT ANY OIL SPILLS TO THE PROPER AUTHORITIES. IN CASE OF DAMAGE OR SUSPECTED DAMAGE TO THE WAIAU OR KAHE FUEL PIPELINES, THE CONTRACTOR SHALL ALSO NOTIFY CHEVRON AT 682-2227. 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 INSTALLATION DEPARTMENT AT 543-7846 A MINIMUM OF FIVE (5) WORKING DAYS IN ADVANCE TO ARRANGE FOR HECO STAND-BY PERSONNEL.

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

MINIMUM SEPARATION CLEARANCES TO EXISTING UNDERGROUND DUCTLINES HORIZONTAL (PARALLEL)

UTILITY BEING INSTALLED	EXISTING DIRECT BURIED CABLE	EXISTING DIRECT BURIED IN CONDUIT (NO CONCRETE ENCASEMENT)	EXISTING 3" CONCRETE ENCASEMENT	APPLICABLE NOTES:
HECO DB CONDUITS	12"	3"	0"	
HECO 3" ENCASEMENT	0"	0"	0"	
TELEPHONE/CATV DB	12"	12"	A 6"	
TELEPHONE/CATV DB DUCTS	12"	12"	6"	
TELEPHONE/CATV 3" ENCASEMENT	0"	0"	0"	5
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

NOTES:
1. WHERE SPACE IN AVAILABLE, PARALLEL CLEARANCE TO OTHER UTILITIES, OR FOREIGN STRUCTURES OTHER THAN COMMUNICATION OR TRAFFIC SIGNAL SHALL BE 36",GA LINE WITH REINFORCED CONCRETE (PER HECO'S STD. 30-1030) FOR A DISTANCE OF 5' PLUS PIPE DIAMETER
– IF CLEARANCE IS BETWEEN 12" AND 36", JACKET SEWER LINE WITH PLAN CONCRETE.

2. ELECTRICAL CONDUIT CROSSINGS OF FUEL LINES SHOULD BE KEPT A MINIMUM OF 48" CLEAR BELOW FUEL LINE FOR THE FULL EASEMENT WIDTH. IF THE 48" CLEARANCE CANNOT BE MET BUT THERE IS A MINIMUM OF 24", THE FUEL LINE MUST BE ENCASED WITH 6" OF CONCRETE.

3. 5 FEET CLEAR TO WATER MAINS 16" OR LARGER.

4. FOR SITUATIONS WITH 0" MINIMUM SEPARHECATION, A 6" SEPARATION IS RECOMMENDED.

5. 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	EXISTING DIRECT BURIED IN CONDUIT (NO CONCRETE ENCASEMENT)	EXISTING 3" CONCRETE ENCASEMENT	APPLICABLE NOTES:
HECO DB CONDUITS	A 6"	3"	0"	
HECO 3" ENCASEMENT	0"	0"	0"	
TELEPHONE/CATV DB	12"		6"	
TELEPHONE/CATV DB DUCTS	12"	12"	6"	
TELEPHONE/CATV 3" ENCASEMENT	0"	0"	0"	5
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"	12"	

NOTES:
1. IF CLEARANCE CANNOT BE MET:
– IF THE CLEARANCE IS LESS THAN 12", JACKET SEWER LINE WITH REINFORCED CONCRETE (PER HECO'S STD. 30-1030) FOR A DISTANCE OF 5' PLUS PIPE DIAMETER
– IF CLEARANCE IS BETWEEN 12" AND 24", JACKET SEWER LINE WITH PLAN CONCRETE.

2. 12" VERTICAL CLEARANCE FOR PIPE DIAMETERS GREATER THEN 16".

3. ELECTRICAL CONDUIT CROSSINGS OF FUEL LINES SHOULD BE KEPT A MINIMUM OF 48" CLEAR BELOW FUEL LINE FOR THE FULL EASEMENT WIDTH. IF THE 48" CLEARANCE CANNOT BE MET BUT THERE IS A MINIMUM OF 24", THE FUEL LINE MUST BE ENCASED WITH 6" OF CONCRETE.

4. 5 FEET CLEAR TO WATER MAINS 16" OR 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 & 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 543-7520 AT LEAST 48 HOURS PRIOR TO PLACING CONCRETE.

CONTRACTOR TO COORDINATE WORK TO BREAK INTO HECO'S EXISTING ELECTRICAL FACILITIES WITH HECO'S INSPECTION DIVISION AT 543-7520 AT LEAST TEN (10) 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 1/8" POLYOLEFIN PULL LINE IN ALL COMPLETED DUCTLINES AFTER MANDREL TESTING IS 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.

FSC ARCHITECTS

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

STEVEN M. FUJIMORI
LICENSED PROFESSIONAL ENGINEER
No. 7246-E
HAWAII, U.S.A.

NOTE: CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AT JOB BEFORE PROCEEDING WITH WORK.

DEVELOPER:
CALIFORNIA INVESTMENT REGIONAL CENTER, LLC

PROJECT OWNER:
HAWAII CITY PLAZA, LP

Hawaii City Plaza
Honolulu, Hawaii
710 Sheridan Street
TMK 2-3-014: Parcels 002, 004, & 011

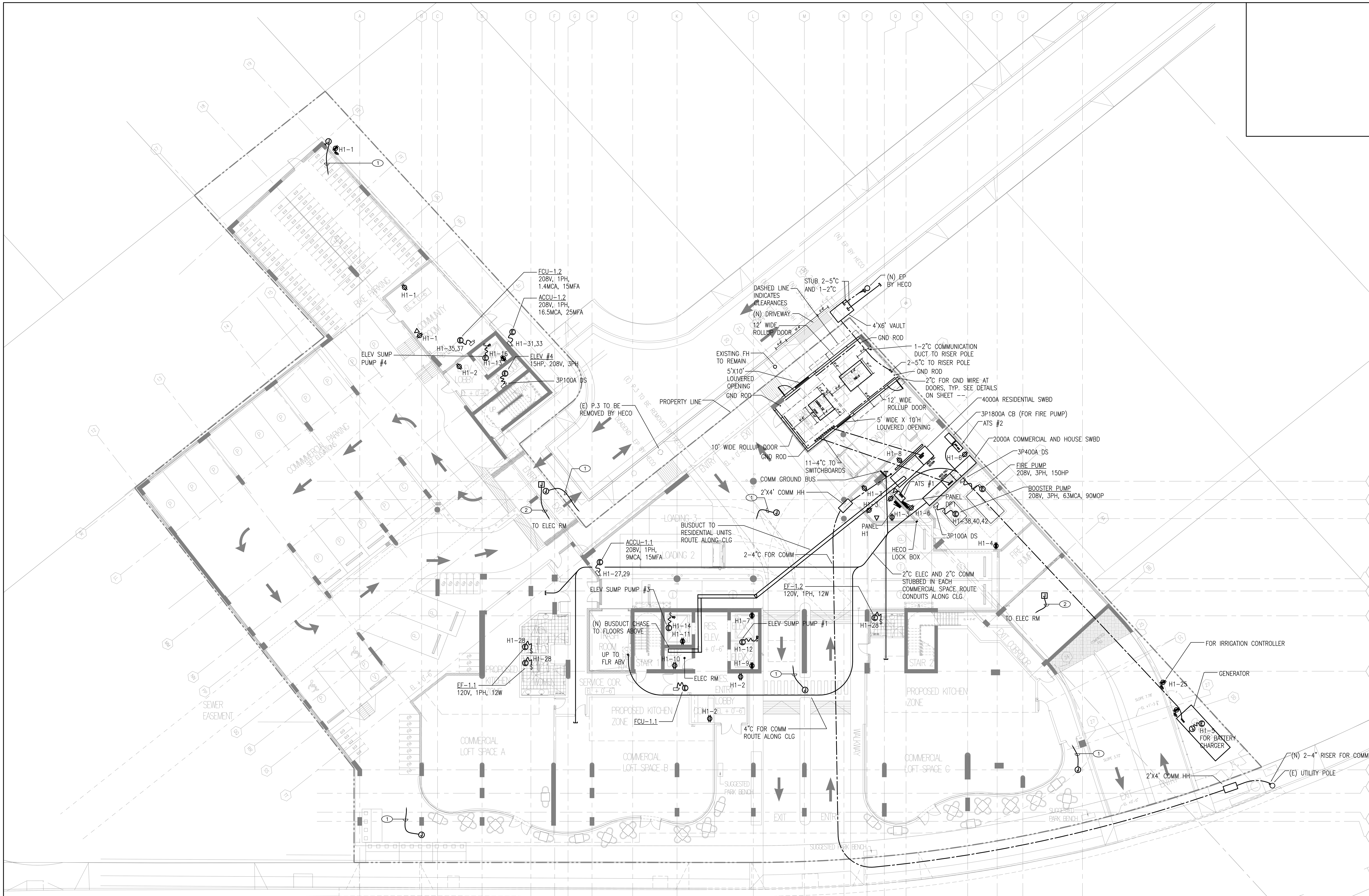
PERMIT SET

DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
HECO NOTES

SHEET NO.
E0.003



KEY NOTES:

1. 1"C W/PULLSTRING TO 2ND FLR SECURITY OFFICE FOR CATV BY OTHERS.
2. 1"C W/PULLSTRING FOR FUTURE GATE OPERATOR.

1 LEVEL 01 - POWER & TELCOMM PLAN
3/32"=1'-0"

NORTH

FSC ARCHITECTS

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

LICENSED PROFESSIONAL ENGINEER No. 7246-E

NOTE: CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AT JOB BEFORE PROCEEDING WITH WORK.

DEVELOPER:
CALIFORNIA INVESTMENT REGIONAL CENTER, LLC

PROJECT OWNER:
HAWAII CITY PLAZA, LP

Hawaii City Plaza
Honolulu, Hawaii
710 Sheridan Street
TMK 2-3-014: Parcels 002, 004, & 011

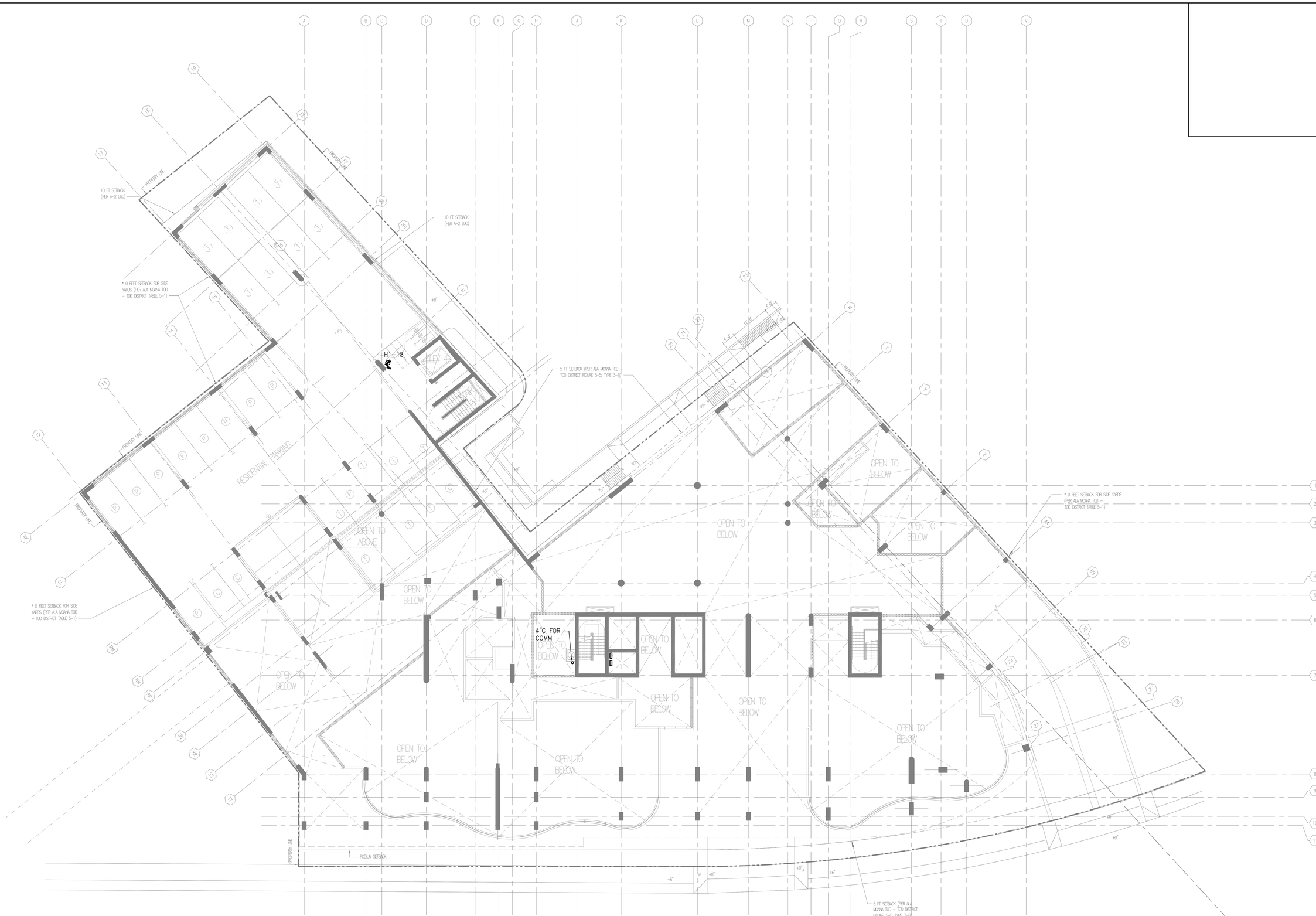
PERMIT SET

DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
LEVEL 01 - POWER & TELCOMM PLAN

SHEET NO.
E1.101



1 LEVEL 01 MEZZANINE - POWER & TELCOMM PLAN
3/32"=1'-0"

0' 10' 20' 40'

NORTH

FSC ARCHITECTS

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DEREK H. FUJIKAWA
LICENSED PROFESSIONAL ENGINEER
No. 7246-E
HAWAII, U.S.A.

NOTE: CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AT JOB BEFORE PROCEEDING WITH WORK.

DEVELOPER:
CALIFORNIA INVESTMENT REGIONAL CENTER, LLC

PROJECT OWNER:
HAWAII CITY PLAZA, LP

Hawaii City Plaza
Honolulu, Hawaii
710 Sheridan Street
TMK 2-3-014: Parcels 002, 004, & 011

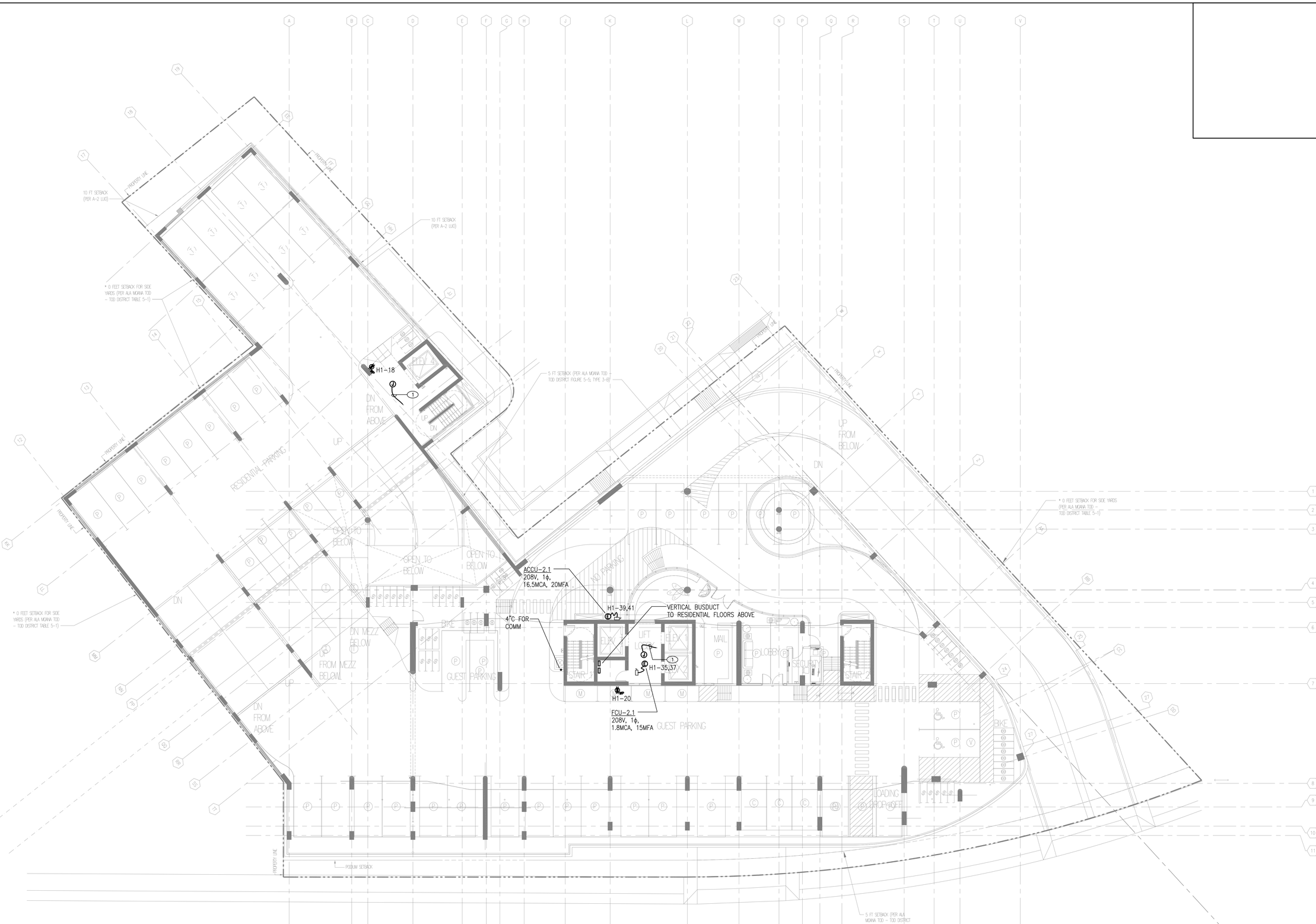
PERMIT SET

DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
LEVEL 01 MEZZANINE - POWER & TELCOMM PLAN

SHEET NO.
E1.101B



KEY NOTES:

(1) 1"C W/PULLSTRING TO 2ND FLR SECURITY OFFICE FOR CATV BY OTHERS.

1 LEVEL 02 - POWER & TELCOMM PLAN
3/32"=1'-0"

0' 10' 20' 40'

NORTH

FSC ARCHITECTS

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DEREK H. FUJIKAWA
LICENSED PROFESSIONAL ENGINEER
No. 7246-E
HAWAII, U.S.A.

NOTE: CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AT JOB BEFORE PROCEEDING WITH WORK.

DEVELOPER:
CALIFORNIA INVESTMENT REGIONAL CENTER, LLC

PROJECT OWNER:
HAWAII CITY PLAZA, LP

Hawaii City Plaza
Honolulu, Hawaii
710 Sheridan Street
TMK 2-3-014: Parcels 002, 004, & 011

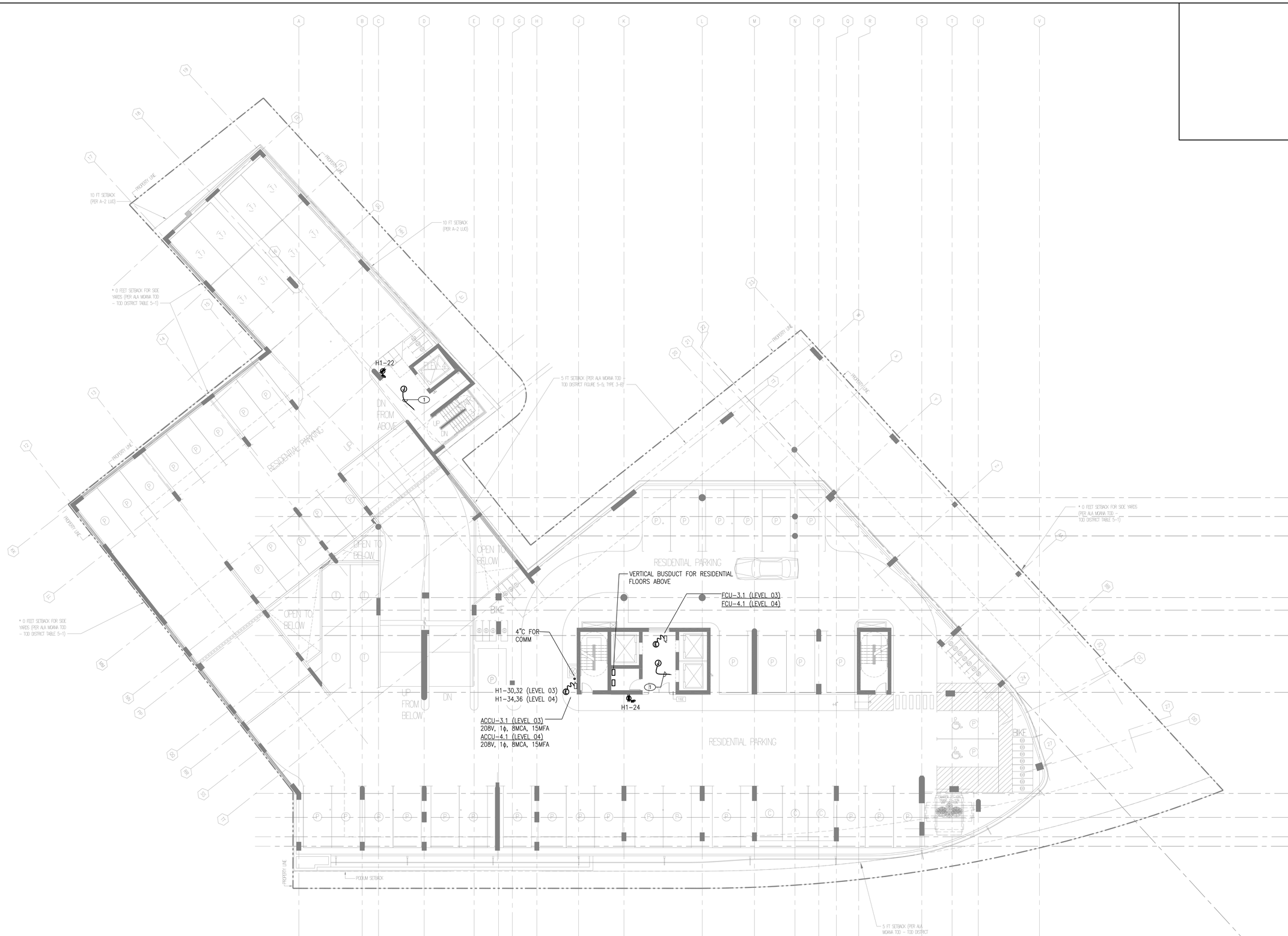
PERMIT SET

DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
LEVEL 02 - POWER & TELCOMM PLAN

SHEET NO.
E1.102



KEY NOTES:

(1) 1"C W/PULLSTRING TO 2ND FLR SECURITY OFFICE FOR CATV BY OTHERS.

1 LEVEL 03-04 - TYP. POWER & TELCOMM PLAN
3/32"=1'-0"

0' 10' 20' 40'

NORTH

FSC ARCHITECTS

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DEREK H. FUJIKAWA
LICENSED PROFESSIONAL ENGINEER
No. 7246-E
HAWAII, U.S.A.

NOTE: CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AT JOB BEFORE PROCEEDING WITH WORK.

DEVELOPER:
CALIFORNIA INVESTMENT REGIONAL CENTER, LLC

PROJECT OWNER:
HAWAII CITY PLAZA, LP

Hawaii City Plaza
Honolulu, Hawaii
710 Sheridan Street
TMK 2-3-014: Parcels 002, 004, & 011

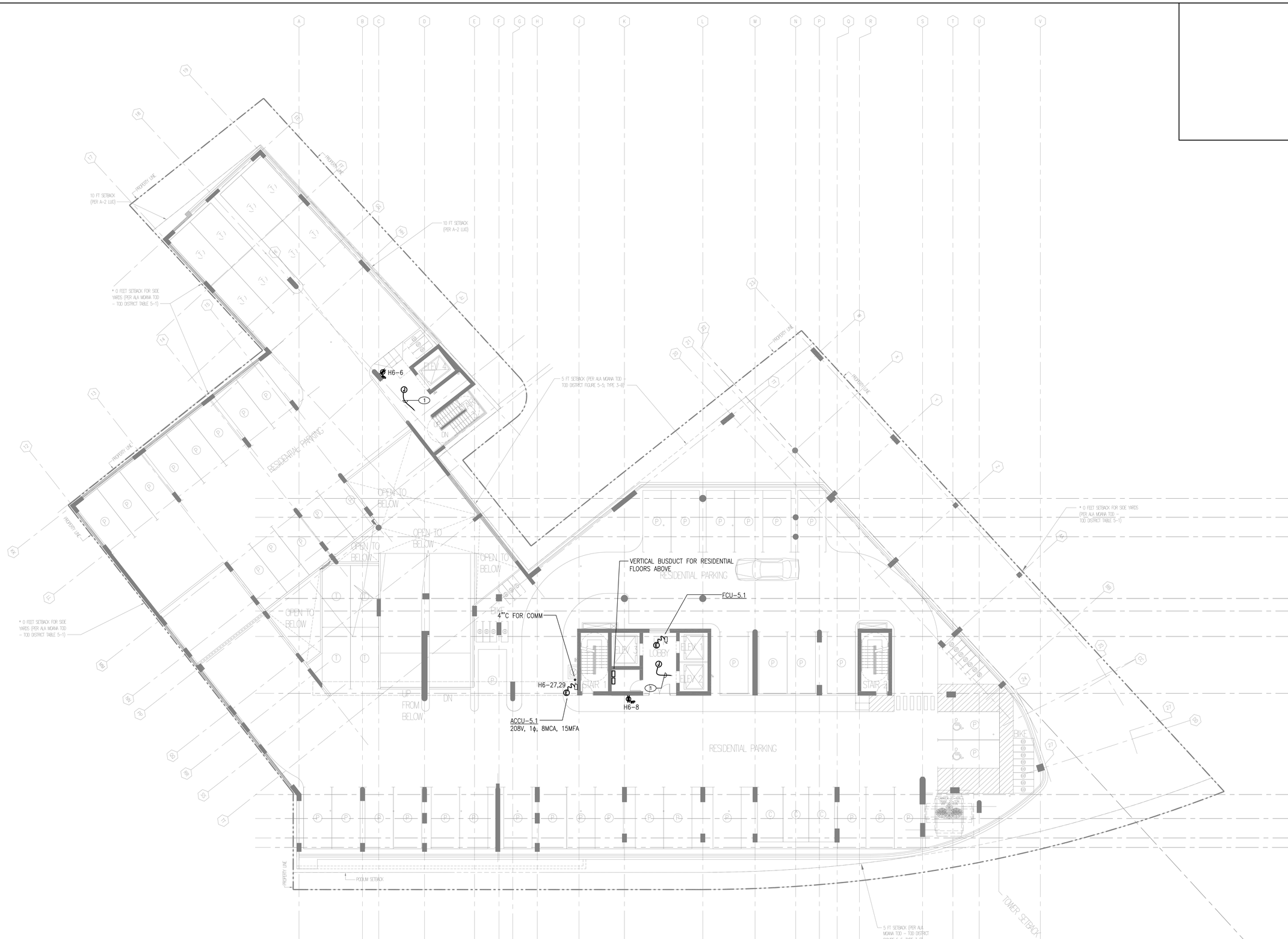
PERMIT SET

DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
LEVEL 03-04 - POWER & TELCOMM PLAN

SHEET NO.
E1.103



KEY NOTES:

(1) 1"C W/PULLSTRING TO 2ND FLR SECURITY OFFICE FOR CATV BY OTHERS.

1 LEVEL 05 - POWER & TELCOMM PLAN
3/32"=1'-0"

0' 10' 20' 40'

NORTH

FSC ARCHITECTS

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DEREK H. FUJIKAWA
LICENSED PROFESSIONAL ENGINEER
No. 7246-E
HAWAII, U.S.A.

NOTE: CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AT JOB BEFORE PROCEEDING WITH WORK.

DEVELOPER:
CALIFORNIA INVESTMENT REGIONAL CENTER, LLC

PROJECT OWNER:
HAWAII CITY PLAZA, LP

Hawaii City Plaza
Honolulu, Hawaii
710 Sheridan Street
TMK 2-3-014: Parcels 002, 004, & 011

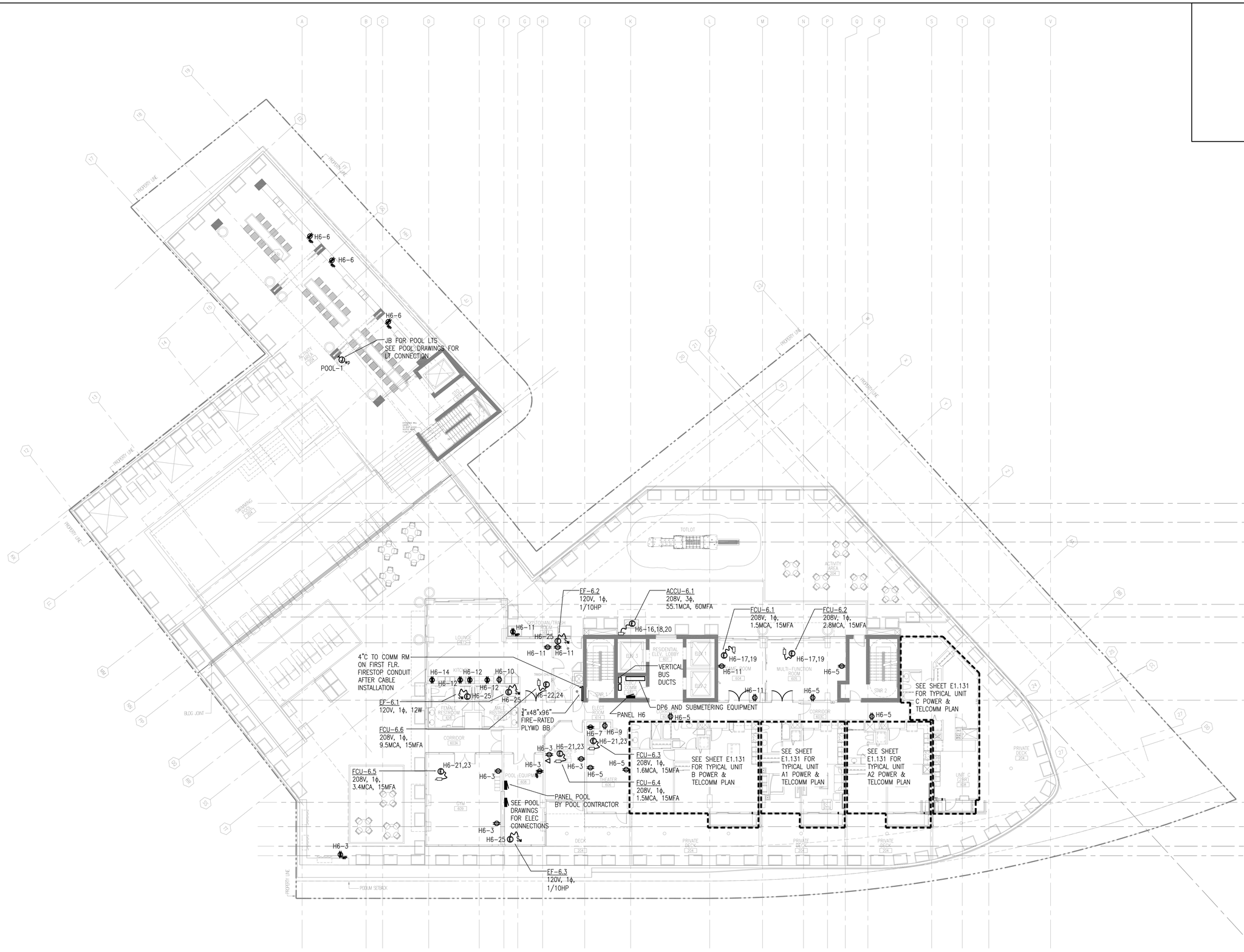
PERMIT SET

DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
LEVEL 05 - POWER & TELCOMM PLAN

SHEET NO.
E1.104



1 LEVEL 06 - POWER & TELCOMM PLAN
3/32"=1'-0"

0 10' 20' 40'

NORTH

FSC ARCHITECTS

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DEREK H. FUJIKAWA
LICENSED PROFESSIONAL ENGINEER
No. 7246-E
HAWAII, USA

NOTE: CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AT JOB BEFORE PROCEEDING WITH WORK.

DEVELOPER:
CALIFORNIA INVESTMENT REGIONAL CENTER, LLC

PROJECT OWNER:
HAWAII CITY PLAZA, LP

Hawaii City Plaza
Honolulu, Hawaii

710 Sheridan Street
TMK 2-3-014: Parcels 002, 004, & 011

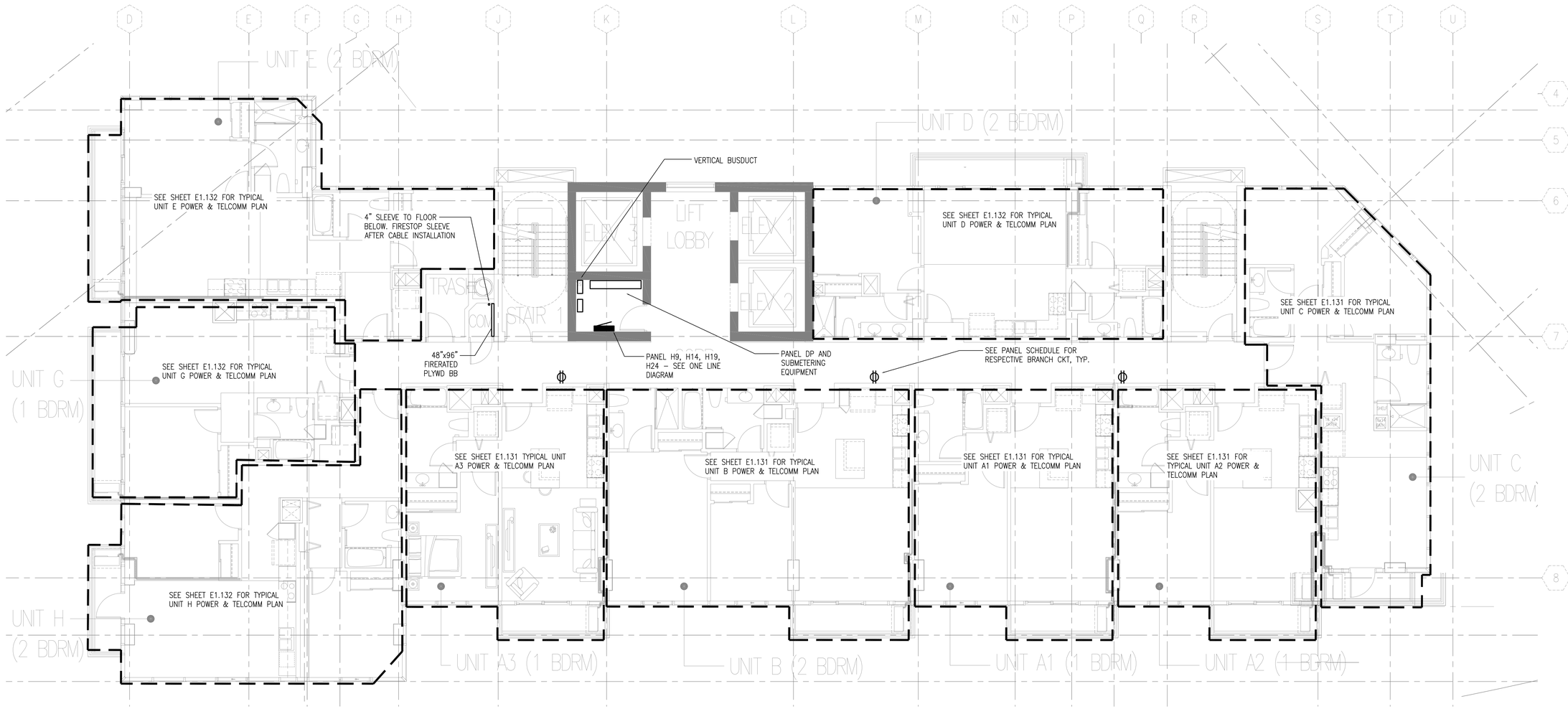
PERMIT SET

DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
LEVEL 06 - POWER & TELCOMM PLAN

SHEET NO.
E1.105



1 LEVEL 07-26 - TYP. POWER & TELCOMM PLAN
3/16"=1'-0"

NORTH

FSC ARCHITECTS

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DEREK H. FUJIKAWA
LICENSED PROFESSIONAL ENGINEER
No. 7246-E
HAWAII

NOTE: CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AT JOB BEFORE PROCEEDING WITH WORK.

DEVELOPER:
CALIFORNIA INVESTMENT REGIONAL CENTER, LLC

PROJECT OWNER:
HAWAII CITY PLAZA, LP

Hawaii City Plaza
Honolulu, Hawaii

710 Sheridan Street
TMK 2-3-014: Parcels 002, 004, & 011

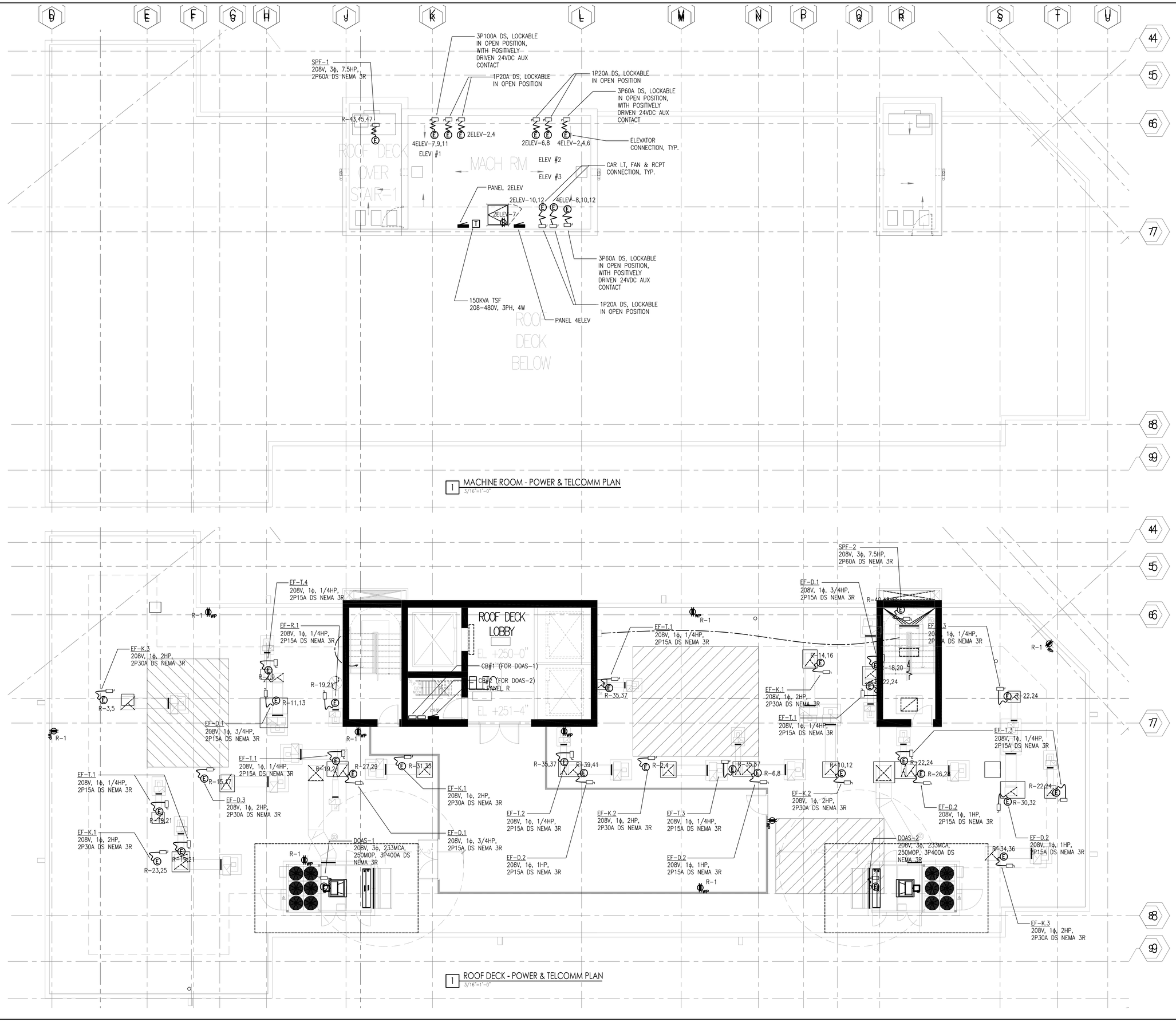
PERMIT SET

DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
LEVEL 07-26 - POWER & TELCOMM PLAN

SHEET NO.
E1.106



1 MACHINE ROOM - POWER & TELCOMM PLAN
3/16"=1'-0"

1 ROOF DECK - POWER & TELCOMM PLAN
3/16"=1'-0"

NORTH

FSC ARCHITECTS

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DEREK H. FUJIKAWA
LICENSED PROFESSIONAL ENGINEER
No. 7246-E
HAWAII, U.S.A.

NOTE: CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AT JOB BEFORE PROCEEDING WITH WORK.

DEVELOPER:
CALIFORNIA INVESTMENT REGIONAL CENTER, LLC

PROJECT OWNER:
HAWAII CITY PLAZA, LP

Hawaii City Plaza
Honolulu, Hawaii
710 Sheridan Street
TMK 2-3-014: Parcels 002, 004, & 011

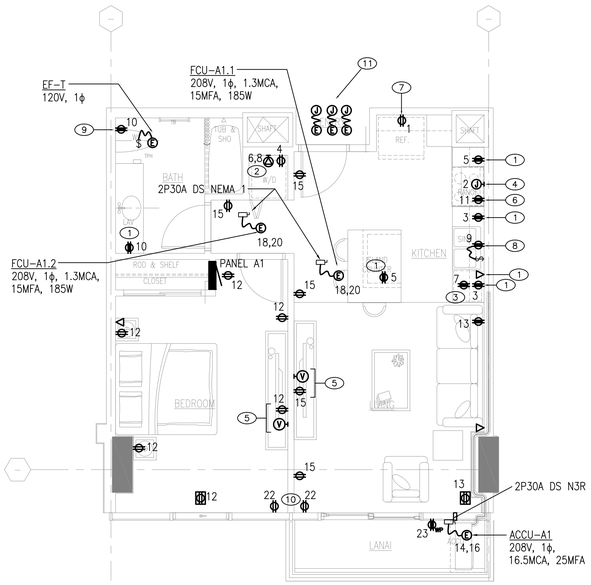
PERMIT SET

DATE 2019 MARCH 19

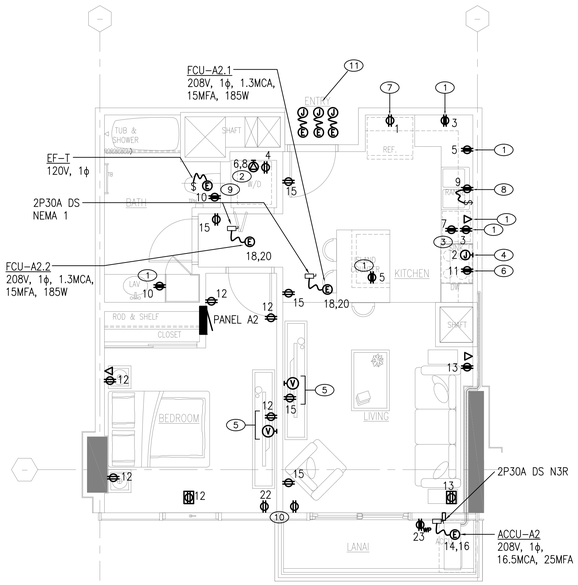
PROJECT # 15028-02

SHEET TITLE
ROOF DECK - POWER & TELCOMM PLAN

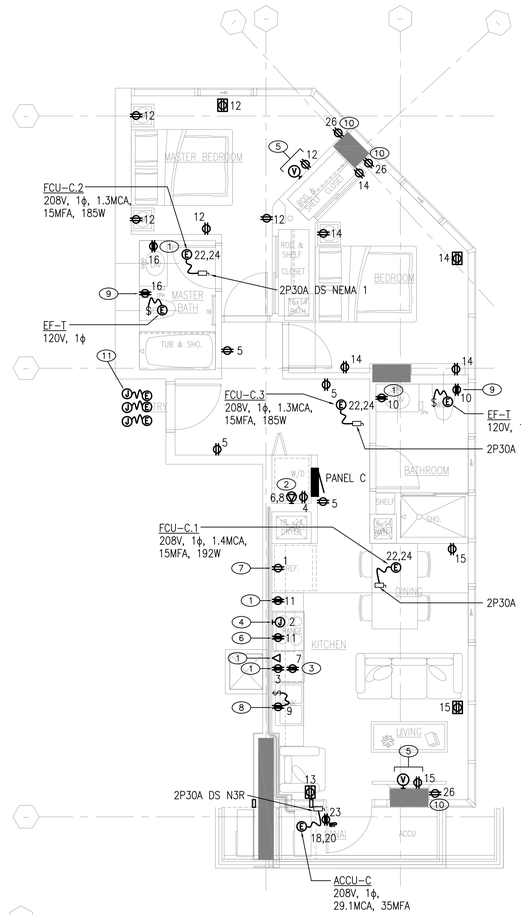
SHEET NO.
E1.107



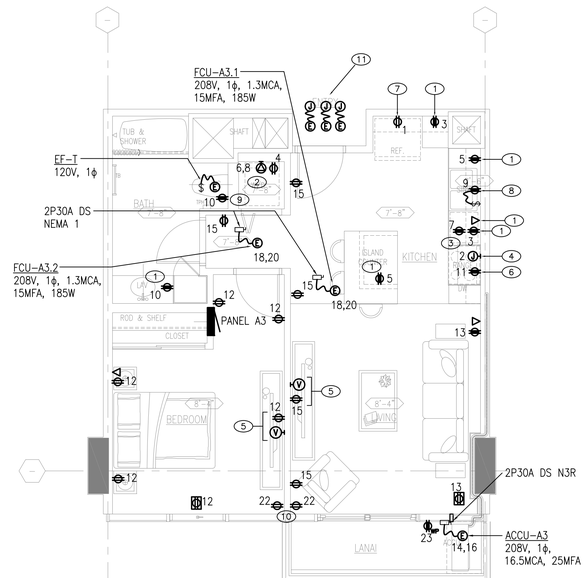
1 UNIT A1 - POWER + TELCOMM
1/4" = 1'-0"



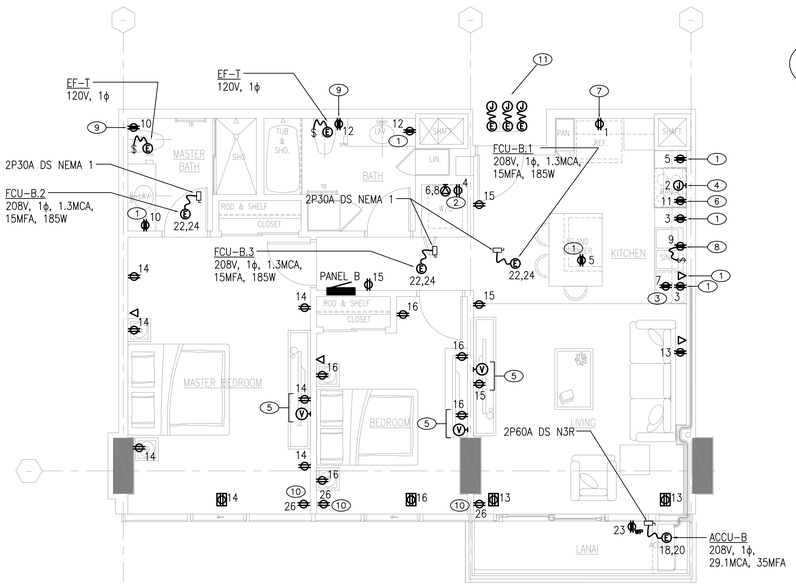
2 UNIT A2 - POWER + TELCOMM
1/4" = 1'-0"



3 UNIT C - POWER + TELCOMM
1/4" = 1'-0"



4 UNIT A3 - POWER + TELCOMM
1/4" = 1'-0"



5 UNIT B - POWER + TELCOMM
1/4" = 1'-0"

GENERAL NOTES:

A. ALL RECEPTACLES SHALL BE TAMPER-RESISTANT PER NEC 406.11.

KEY NOTES:

1. MOUNT RECEPTACLE +6" ABOVE COUNTERTOP.
2. FOR STACKED WASHER/DRYER. 208V, 1PH
3. FOR DISHWASHER. 120V
4. FOR GAS RANGE.
5. FOR TV. COORDINATE AND VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL DWGS PRIOR TO INSTALLATION.
6. FOR RANGE HOOD. COORDINATE AND VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL DWGS PRIOR TO INSTALLATION.
7. FOR REFRIGERATOR.
8. FOR DISPOSAL. 120V. MOUNT SWITCH ABOVE COUNTERTOP. COORDINATE AND VERIFY LOCATION WITH ARCHITECTURAL DWGS PRIOR TO INSTALLATION.
9. FOR BIDET TOILET. COORDINATE AND VERIFY LOCATION WITH ARCHITECTURAL DWGS PRIOR TO INSTALLATION.
10. FOR MOTORIZED CURTAIN – MOUNT AT 8'AFF
11. SUBMETERING EQUIPMENT FOR GAS, HW AND CW. HOMERUN CONDUCTORS TO ELEC RM SUBMETERING EQUIPMENT

FSC ARCHITECTS

DEREK H. FUJIKAWA
LICENSED PROFESSIONAL ENGINEER
No. 7246-E
HAWAII, U.S.A.

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NOTE: CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AT JOB BEFORE PROCEEDING WITH WORK.

DEVELOPER:
CALIFORNIA INVESTMENT REGIONAL CENTER, LLC

PROJECT OWNER:
HAWAII CITY PLAZA, LP

Hawaii City Plaza
Honolulu, Hawaii
710 Sheridan Street
TMK 2-3-014; Parcels 002, 004, & 011

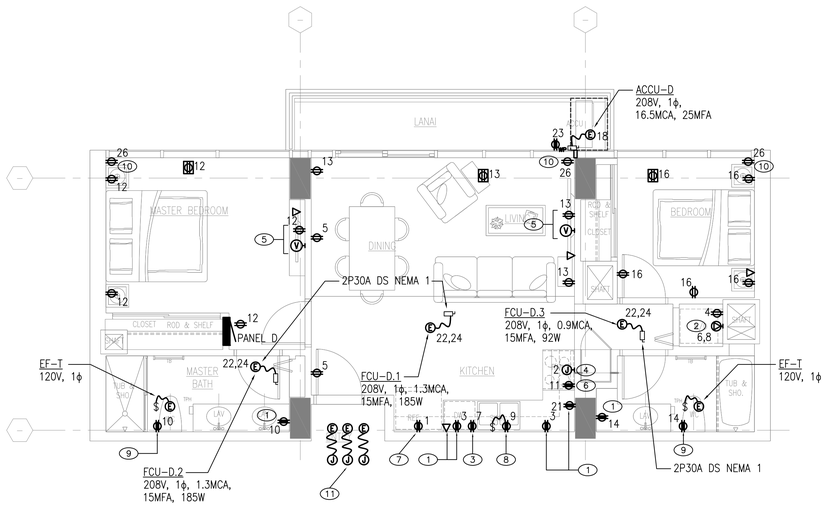
PERMIT SET

DATE 2019 MARCH 19

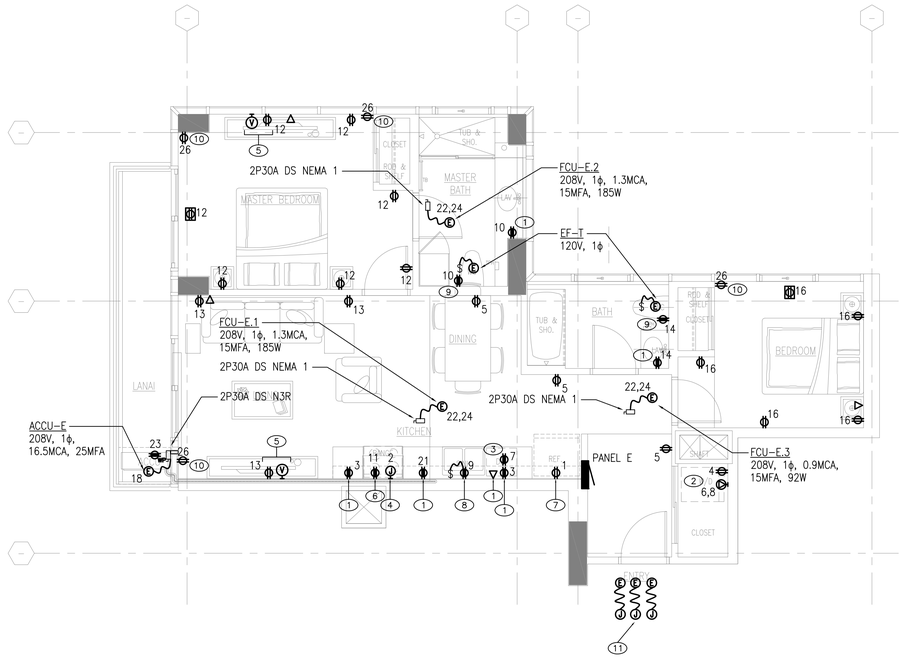
PROJECT # 15028-02

SHEET TITLE
UNITS A1, A2, A3, B, & C - POWER & TELCOMM PLANS

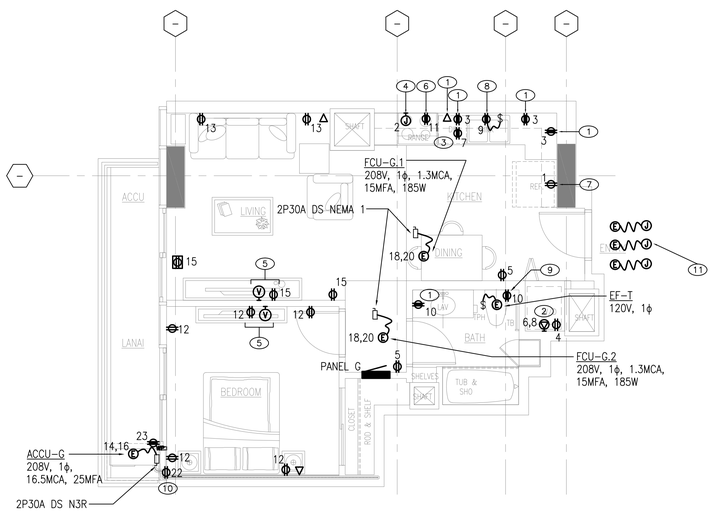
SHEET NO.
E1.131



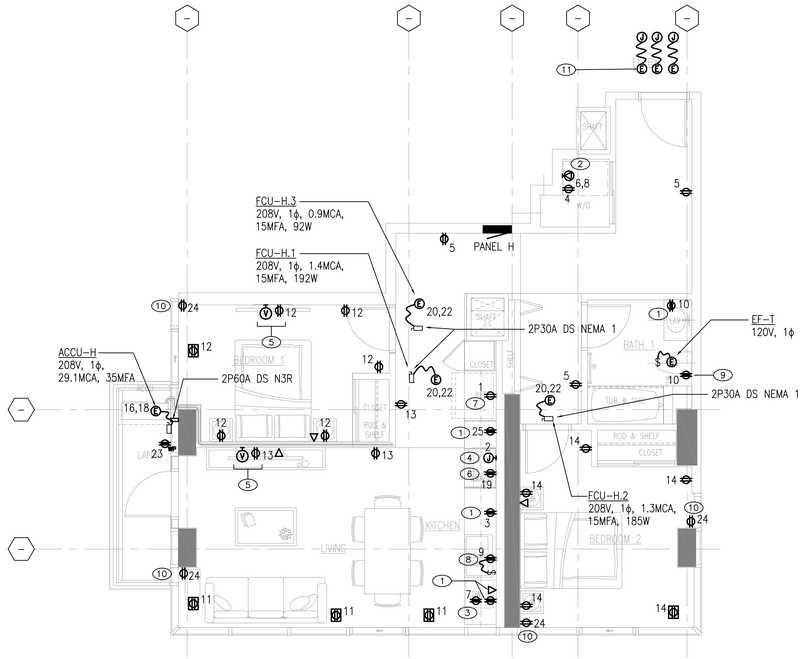
1 UNIT D - POWER + TELCOMM
1/4" = 1'-0"



2 UNIT E - POWER + TELCOMM
1/4" = 1'-0"



3 UNIT G - POWER + TELCOMM
1/4" = 1'-0"



4 UNIT H - POWER + TELCOMM
1/4" = 1'-0"

GENERAL NOTES:

A. ALL RECEPTACLES SHALL BE TAMPER-RESISTANT PER NEC 406.11.

KEY NOTES:

(1) MOUNT RECEPTACLE +6" ABOVE COUNTERTOP.

(2) FOR STACKED WASHER/DRYER. 208V, 1PH.

(3) FOR DISHWASHER. 120V.

(4) FOR GAS RANGE.

(5) FOR TV. COORDINATE AND VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL DWGS PRIOR TO INSTALLATION.

(6) FOR RANGE HOOD. COORDINATE AND VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL DWGS PRIOR TO INSTALLATION.

(7) FOR REFRIGERATOR. 120V.

(8) FOR DISPOSAL. 120V. MOUNT SWITCH ABOVE COUNTERTOP. COORDINATE AND VERIFY LOCATION WITH ARCHITECTURAL DWGS PRIOR TO INSTALLATION.

(9) FOR TOILET. COORDINATE AND VERIFY LOCATION WITH ARCHITECTURAL DWGS PRIOR TO INSTALLATION.

(10) FOR MOTORIZED CURTAIN - MOUNT AT 8'AFF.

(11) SUBMETERING EQUIPMENT FOR GAS, HW, AND CW. HOMERUN CONDUCTORS TO ELEC RM SUBMETERING EQUIPMENT.

FSC ARCHITECTS

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DEREK H. FUJIKAWA
LICENSED PROFESSIONAL ENGINEER
No. 7246-E
HAWAII, U.S.A.

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DEVELOPER:
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HAWAII CITY PLAZA, LP

Hawaii City Plaza
Honolulu, Hawaii

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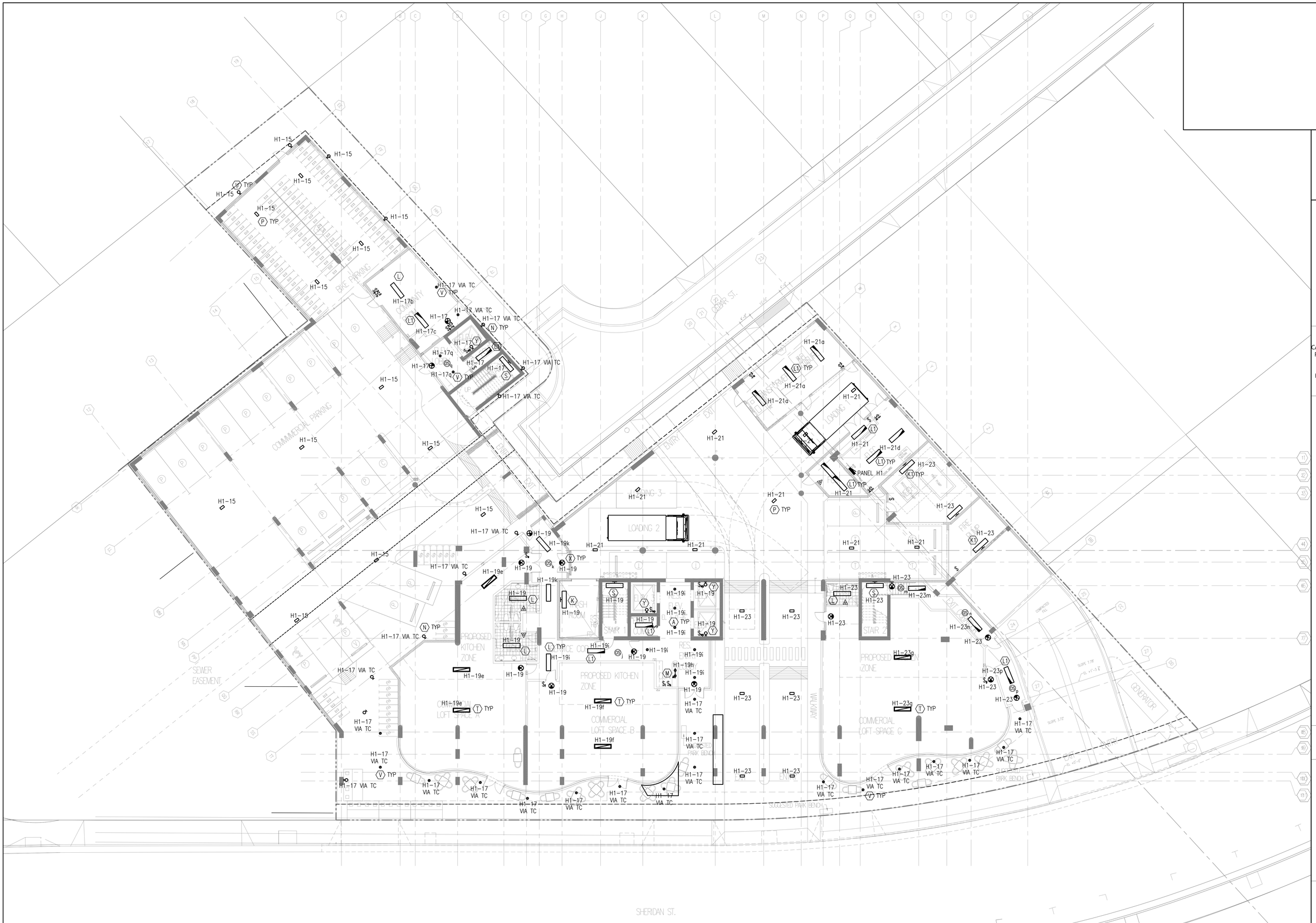
PERMIT SET

DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
UNITS D, E, G, & H - POWER & TELCOMM PLANS

SHEET NO.
E1.132



1 LEVEL 01 - LIGHTING PLAN
3/32" = 1'-0"

0 10' 20' 40'

NORTH

FSC ARCHITECTS

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LICENSED PROFESSIONAL ENGINEER
No. 7246-E
HAWAII, U.S.A.

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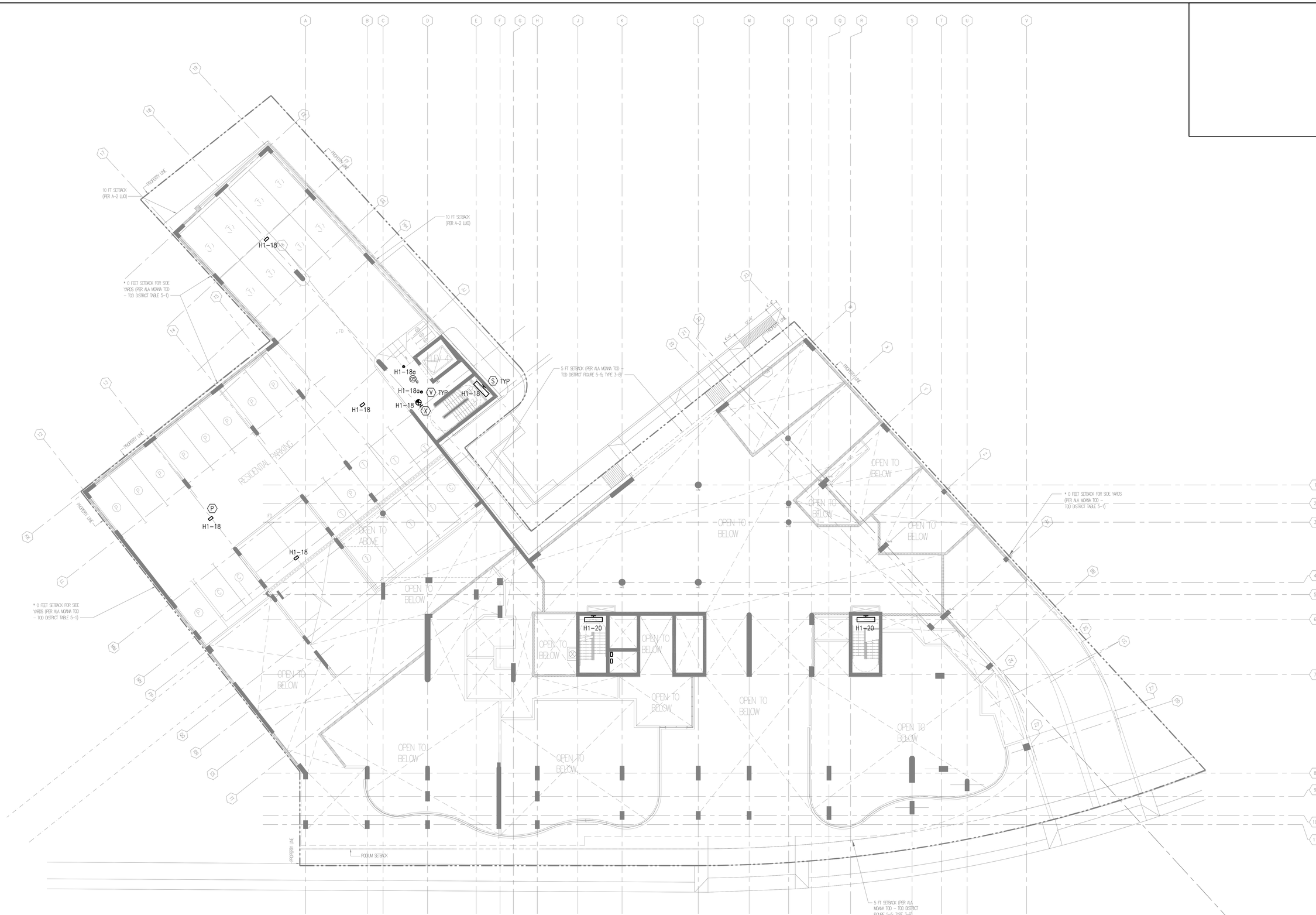
PERMIT SET

DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
LEVEL 01 - LIGHTING PLAN

SHEET NO.
E2.101



1 LEVEL 01 MEZZANINE - LIGHTING PLAN
3/32"=1'-0"

0' 10' 20' 40'

NORTH

FSC ARCHITECTS

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DEREK H. FUJIKAWA
LICENSED PROFESSIONAL ENGINEER
No. 7246-E
HAWAII, USA

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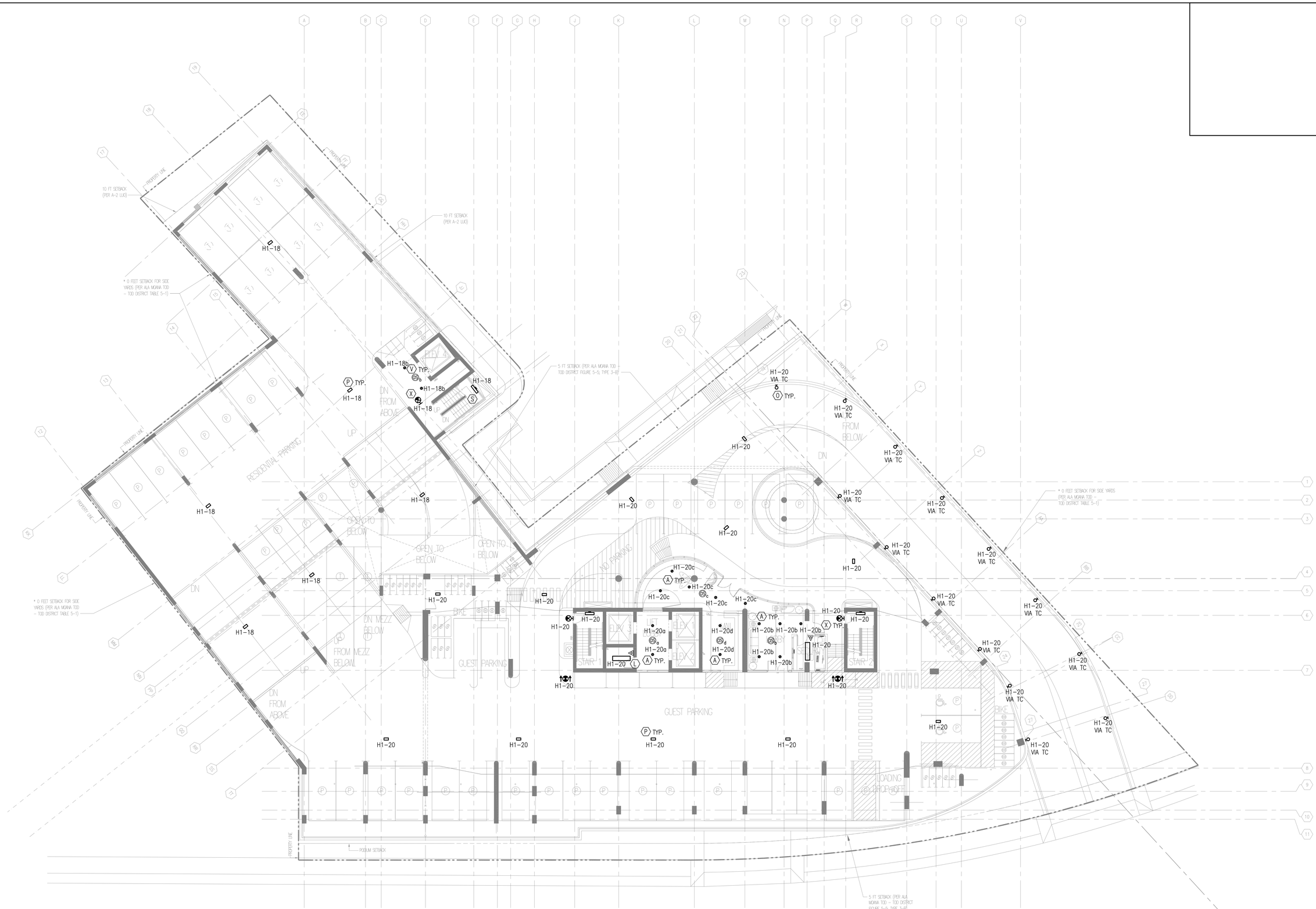
PERMIT SET

DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
LEVEL 01 MEZZANINE - LIGHTING PLAN

SHEET NO.
E2.101B



1 LEVEL 02 - LIGHTING PLAN
3/32"=1'-0"

0' 10' 20' 40'

NORTH

FSC ARCHITECTS

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DEREK H. FUJIKAWA
LICENSED PROFESSIONAL ENGINEER
No. 7246-E
HAWAII, U.S.A.

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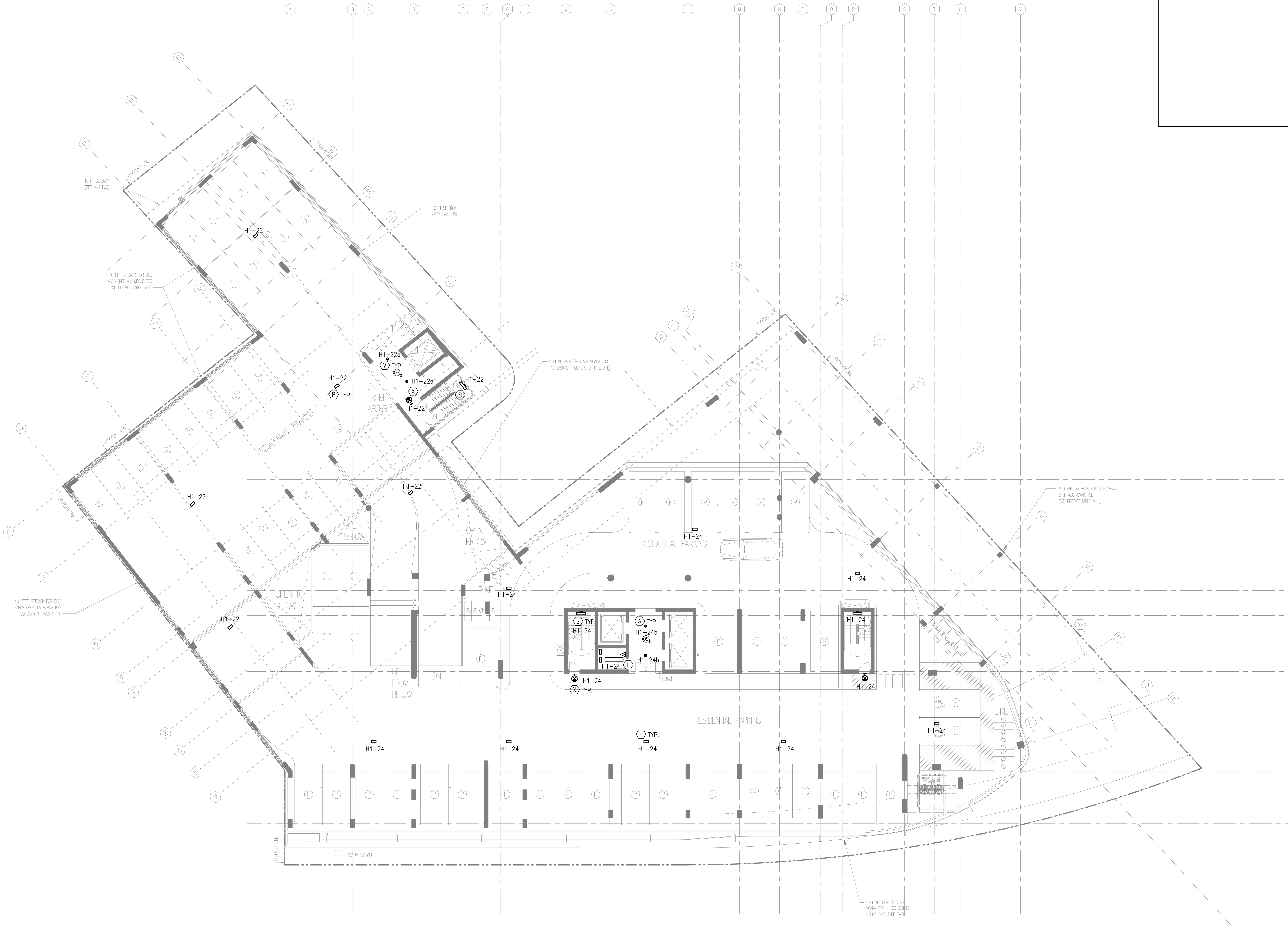
PERMIT SET

DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
LEVEL 02 - LIGHTING PLAN

SHEET NO.
E2.102



1 LEVEL 03-04 - TYP. LIGHTING PLAN

3/32"=1'-0"

0' 10' 20' 40'

NORTH

ARCHITECTS

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DEREK H. FUJIKAMI
LICENSED PROFESSIONAL ENGINEER
No. 7246-E
HAWAII, U.S.A.

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DEVELOPER:
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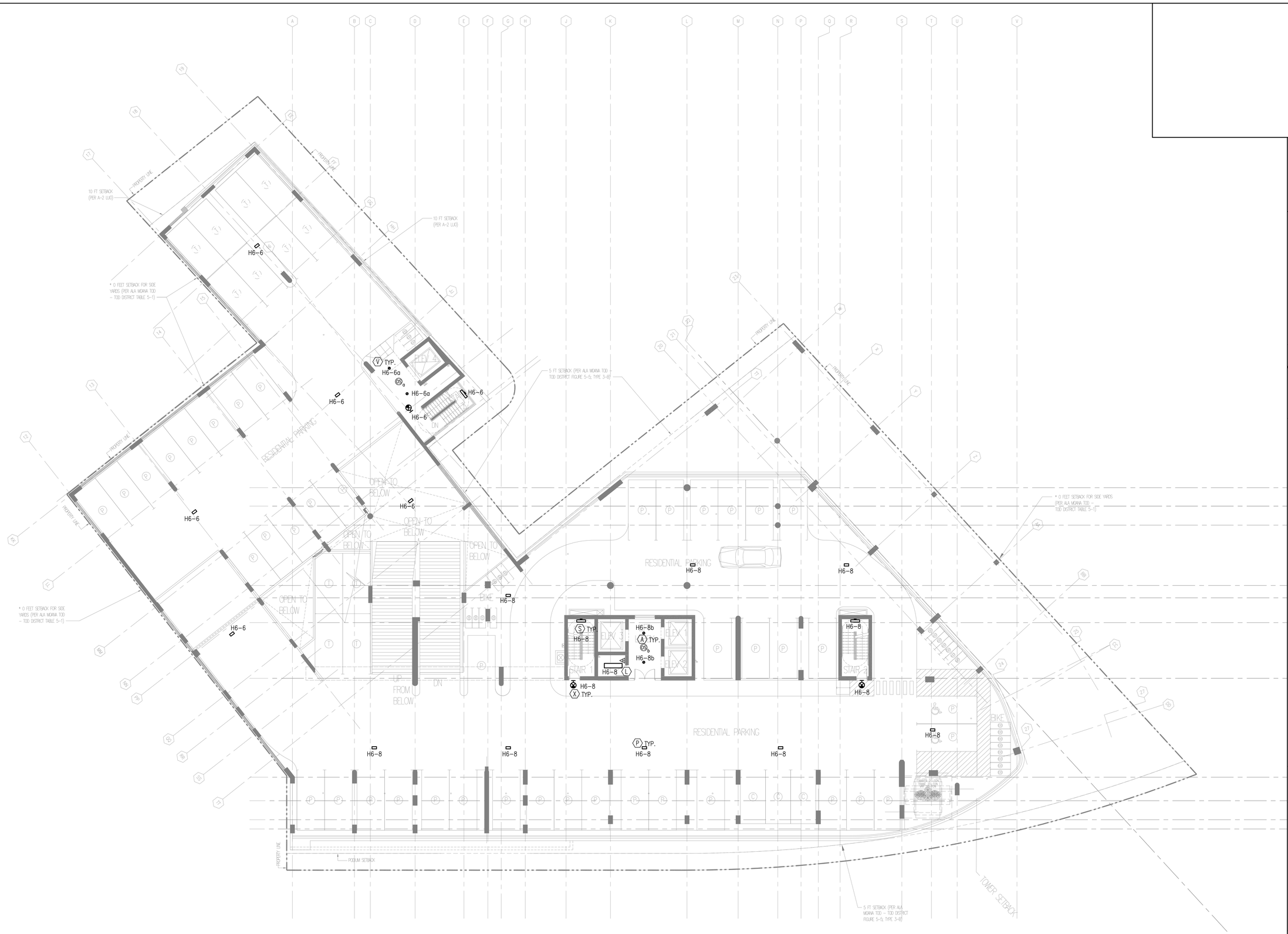
DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
LEVEL 03-04 - LIGHTING PLAN

SHEET NO.
E2.103



1 LEVEL 05 - LIGHTING PLAN
3/32"=1'-0"

0' 10' 20' 40'

NORTH

FSC ARCHITECTS

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DEREK H. FUJIEDA LICENSED PROFESSIONAL ENGINEER No. 7246-C HAWAII, U.S.A.

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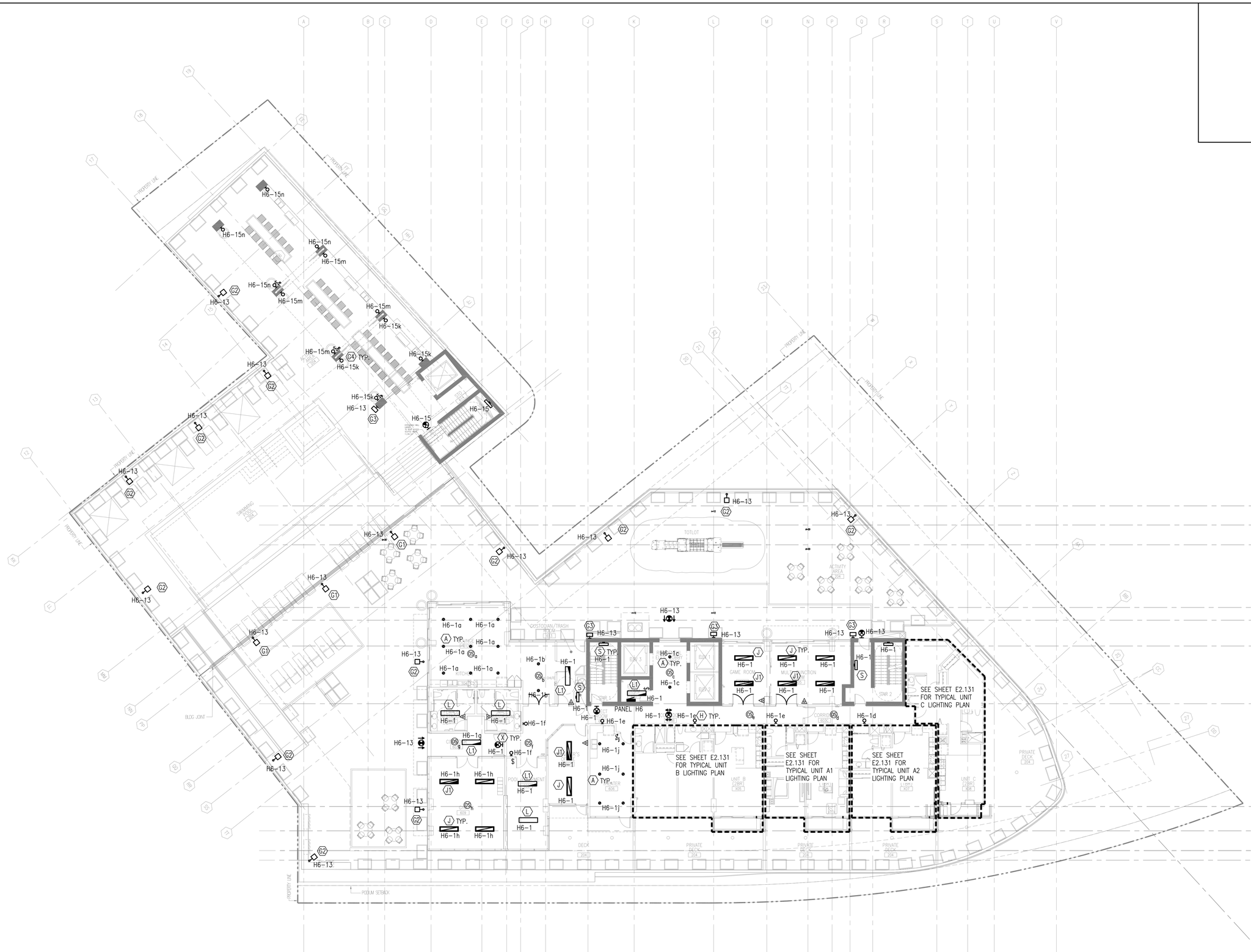
PROJECT # 15028-02

SHEET TITLE
LEVEL 05 - LIGHTING PLAN

SHEET NO.
E2.104



FSC ARCHITECTS

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LICENSED PROFESSIONAL ENGINEER
No. 7246-E
HAWAII, U.S.A.

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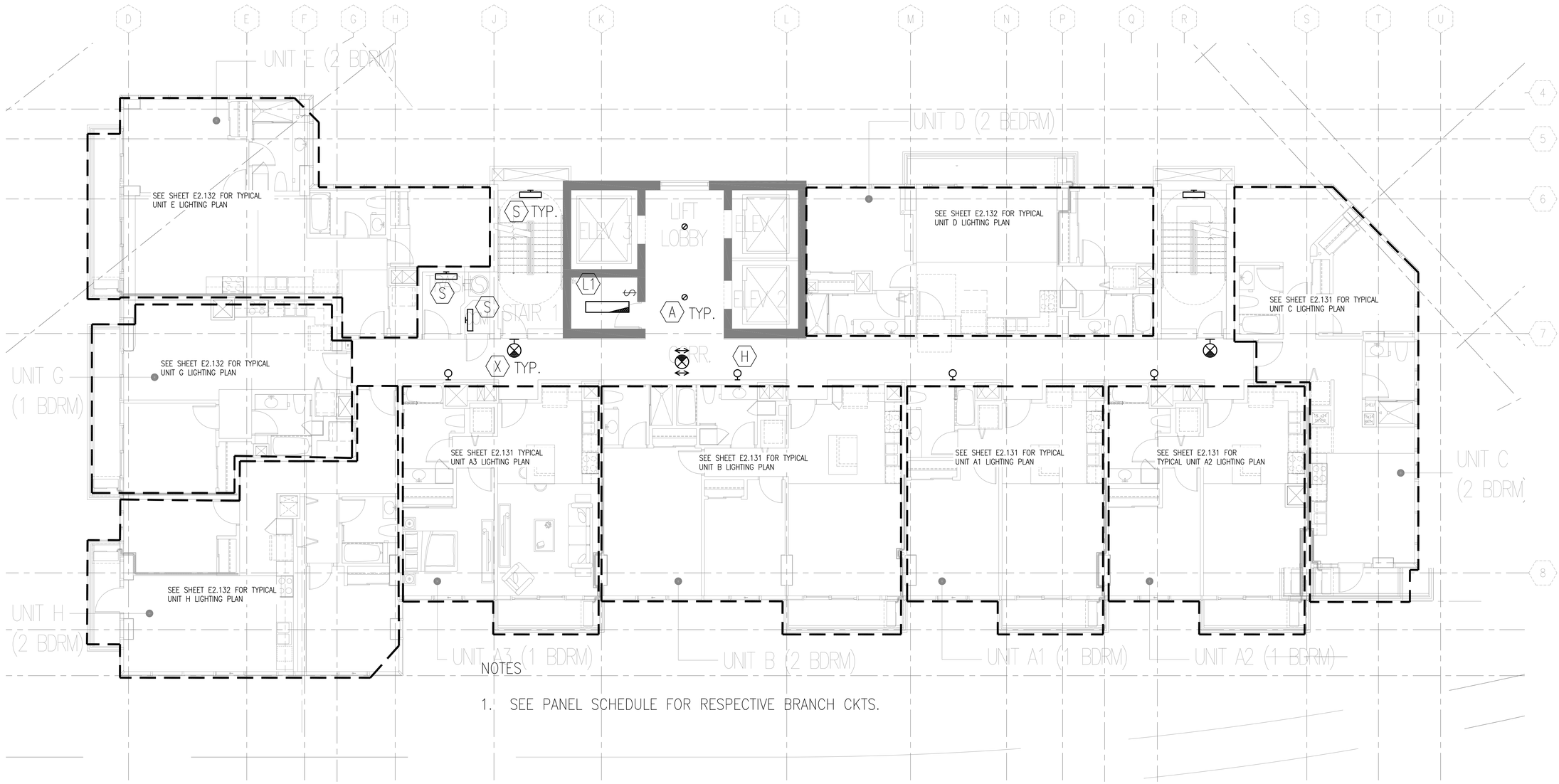
PERMIT SET

DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
LEVEL 06 - LIGHTING PLAN

SHEET NO.
E2.105



NOTES

1. SEE PANEL SCHEDULE FOR RESPECTIVE BRANCH CKTS.

1 LEVEL 07-26 - TYP. LIGHTING PLAN
3/16"=1'-0"

NORTH

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LICENSED PROFESSIONAL ENGINEER
No. 7246-E
HAWAII

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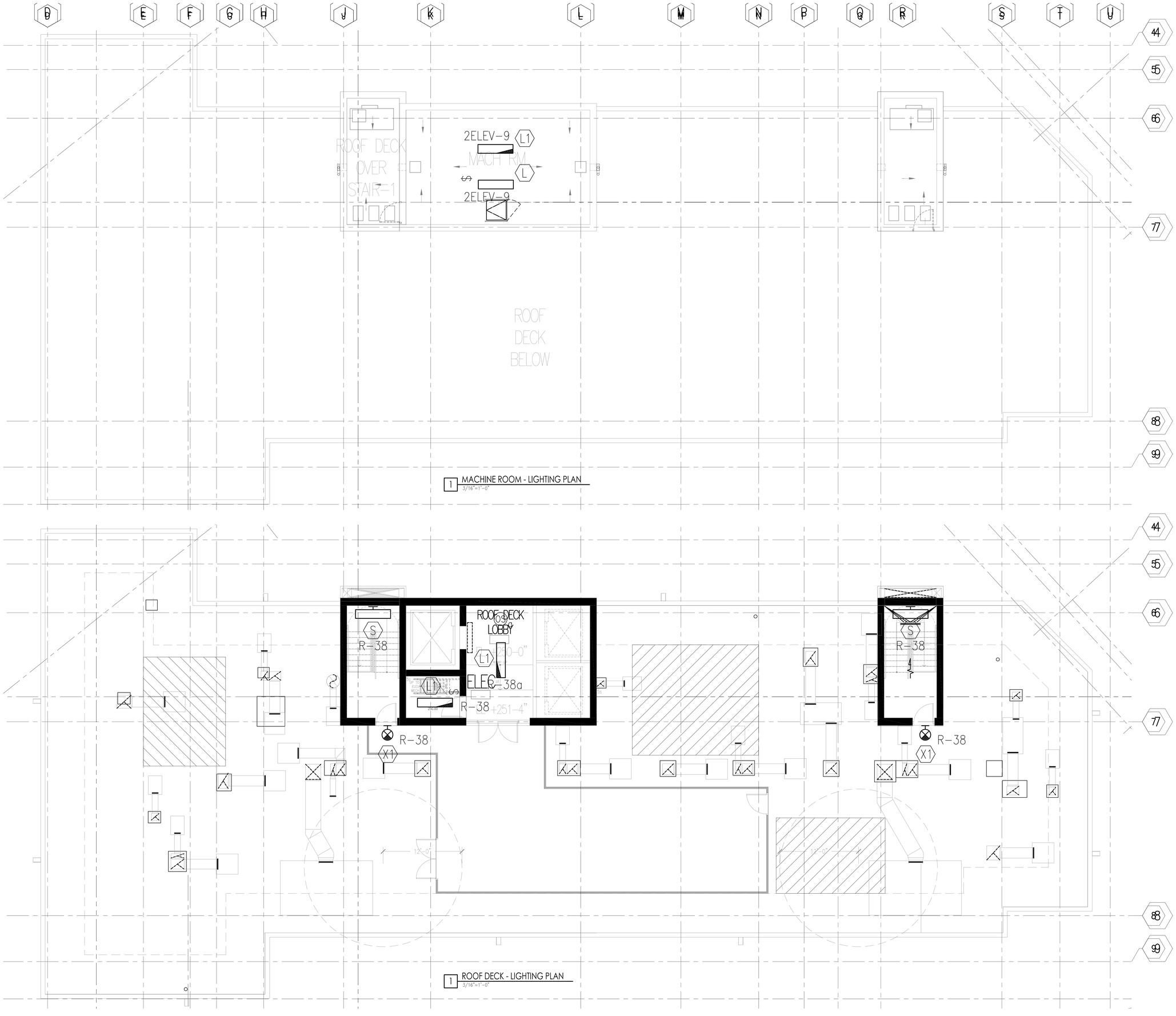
SHEET TITLE
LEVEL 07-26 - LIGHTING PLAN

SHEET NO.
E2.106



1 MACHINE ROOM - LIGHTING PLAN
3/16"=1'-0"

1 ROOF DECK - LIGHTING PLAN
3/16"=1'-0"

NORTH

FSC ARCHITECTS

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DEREK H. FUKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 7246-E
HAWAII, U.S.A.

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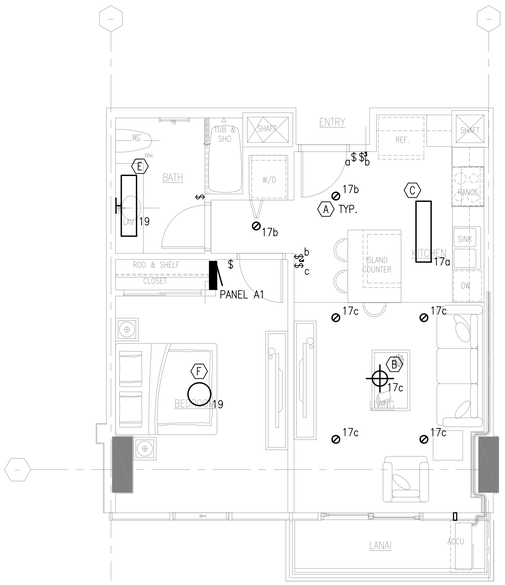
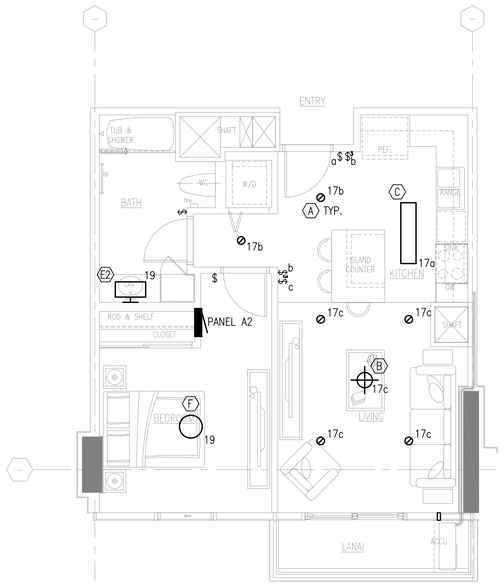
ROOF DECK - LIGHTING PLAN

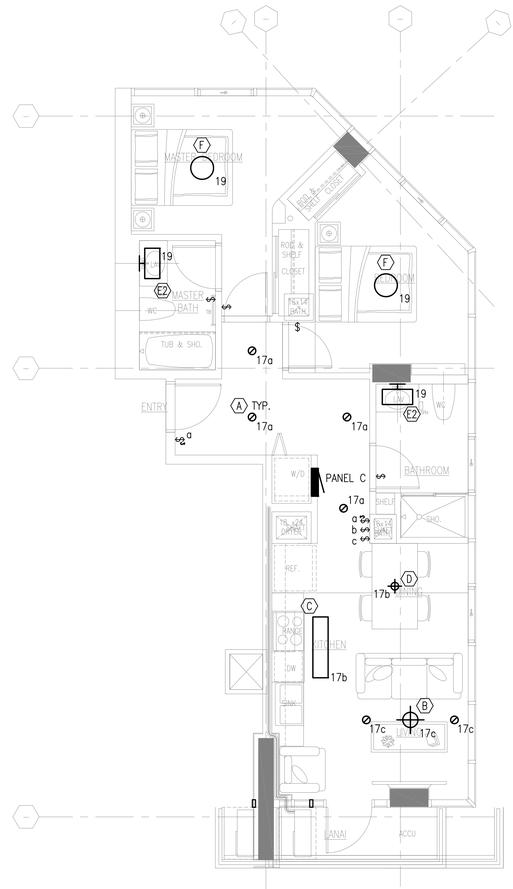
SHEET NO.
E2.107



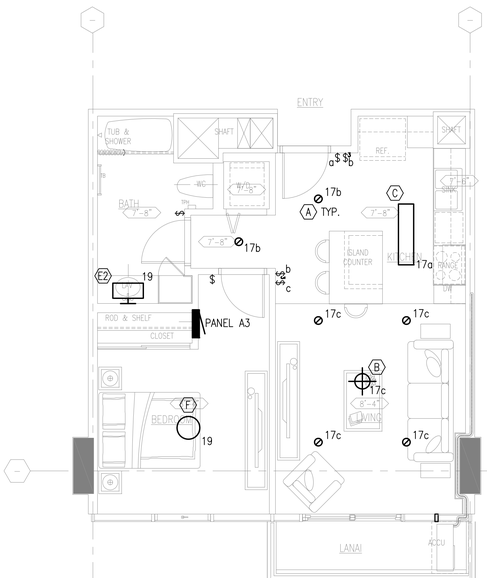
1 UNIT A1 - LIGHTING
1/4" = 1'-0"



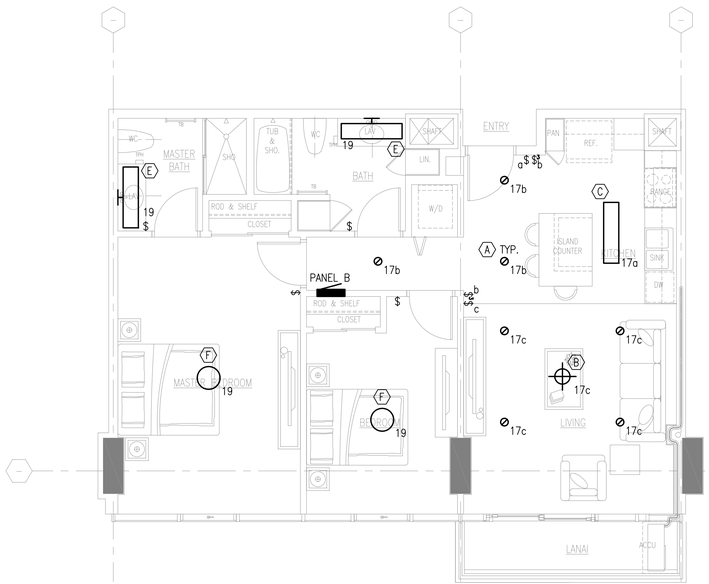
2 UNIT A2 - LIGHTING
1/4" = 1'-0"



3 UNIT C - LIGHTING
1/4" = 1'-0"



4 UNIT A3 - LIGHTING
1/4" = 1'-0"



5 UNIT B - LIGHTING
1/4" = 1'-0"

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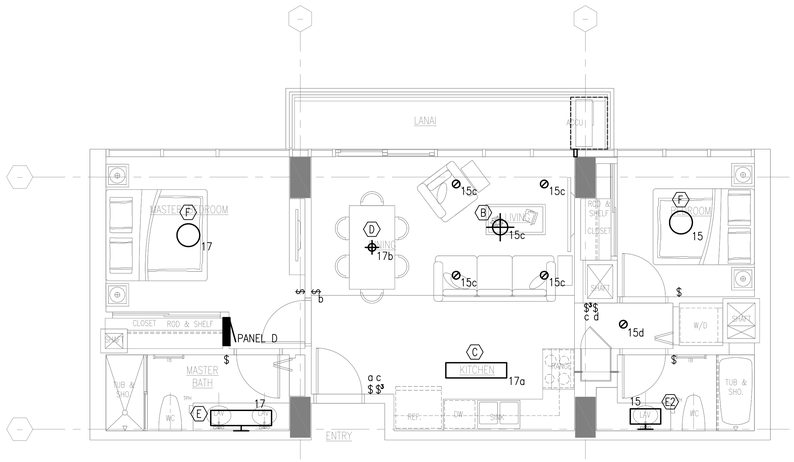
PERMIT SET

DATE 2019 MARCH 19

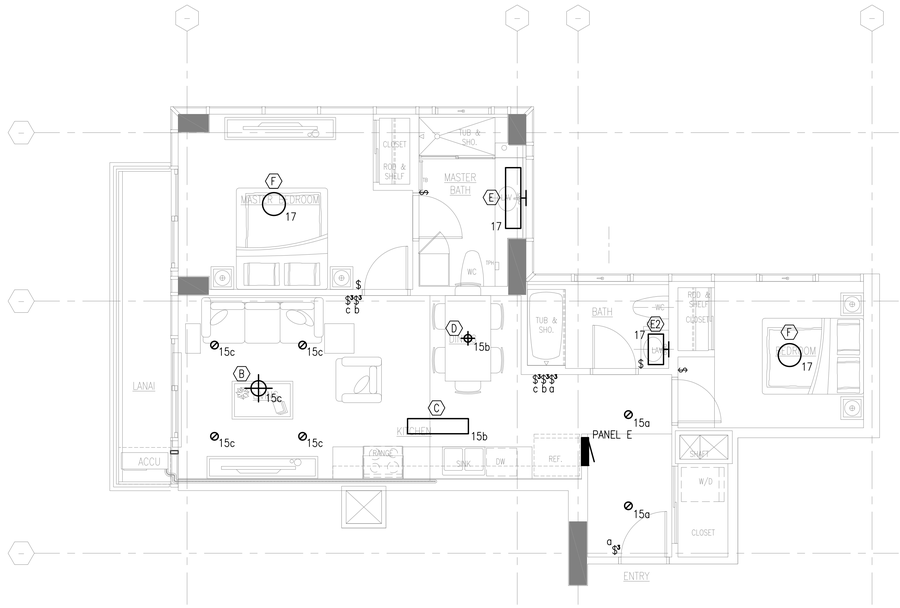
PROJECT # 15028-02

SHEET TITLE
UNITS A1, A2, A3, B, & C - LIGHTING PLANS

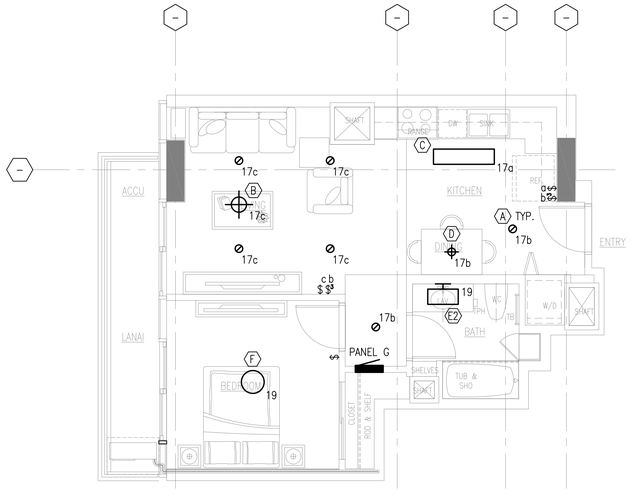
SHEET NO.
E2.131



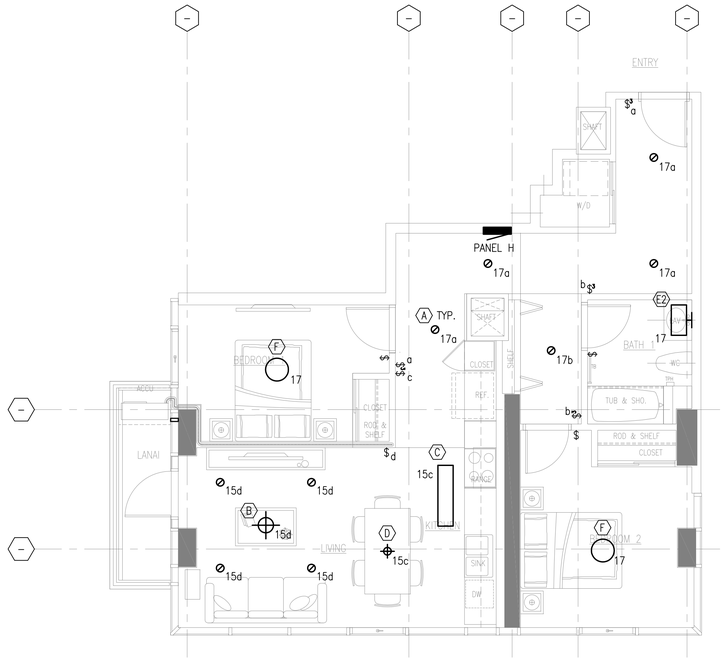
1 UNIT D - LIGHTING
1/4" = 1'-0"



2 UNIT E - LIGHTING
1/4" = 1'-0"



3 UNIT G - LIGHTING
1/4" = 1'-0"



4 UNIT H - LIGHTING
1/4" = 1'-0"

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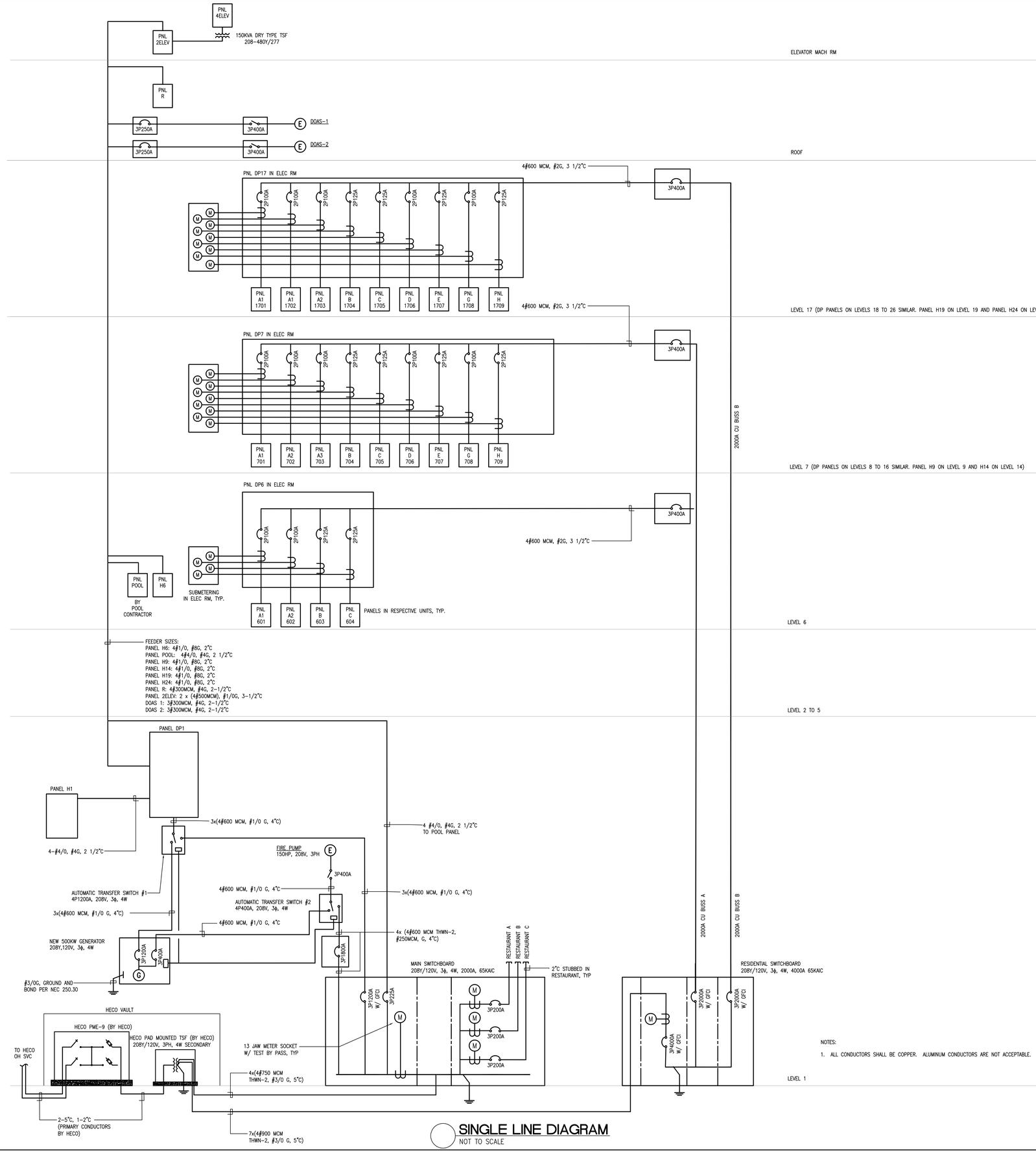
SHEET TITLE
UNITS D, E, G, & H - LIGHTING PLANS

SHEET NO.
E2.132



NOTES:

1. ALL CONDUCTORS SHALL BE COPPER. ALUMINUM CONDUCTORS ARE NOT ACCEPTABLE.

SINGLE LINE DIAGRAM
NOT TO SCALE

FSC ARCHITECTS

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LICENSED PROFESSIONAL ENGINEER
No. 7246-E
HAWAII, U.S.A.

NOTE: CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AT JOB BEFORE PROCEEDING WITH WORK.

DEVELOPER:
CALIFORNIA INVESTMENT REGIONAL CENTER, LLC

PROJECT OWNER:
HAWAII CITY PLAZA, LP

Hawaii City Plaza
Honolulu, Hawaii
710 Sheridan Street
TMK 2-3-014; Parcels 002, 004, & 011

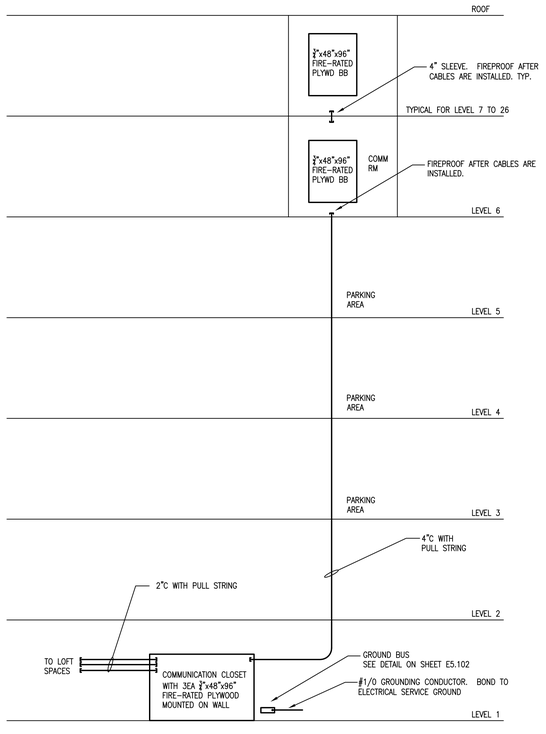
PERMIT SET

DATE 2019 MARCH 19

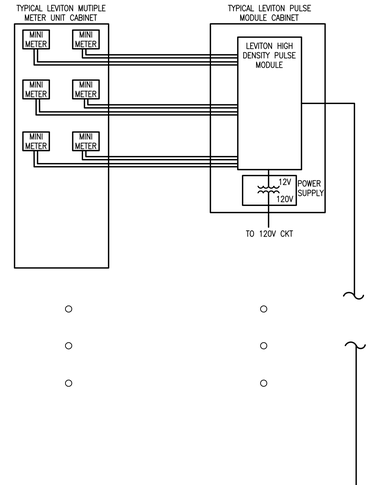
PROJECT # 15028-02

SHEET TITLE
SINGLE LINE DIAGRAM

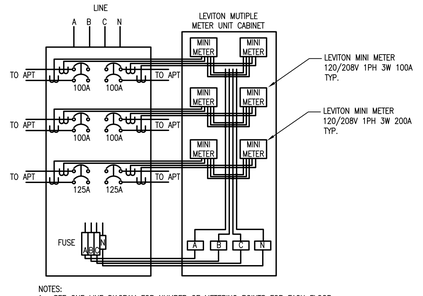
SHEET NO.
E3.101



1 COMMUNICATION RISER DIAGRAM
NOT TO SCALE

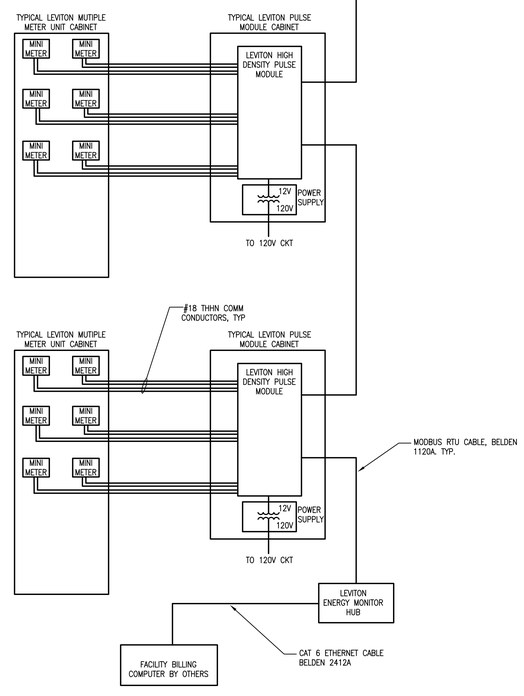


3 TYPICAL SUBMETER GAS AND WATER DIAGRAM
NOT TO SCALE



NOTES:
1. SEE ONE LINE DIAGRAM FOR NUMBER OF METERING POINTS FOR EACH FLOOR.

2 TYPICAL SUBMETER POWER DIAGRAM
NOT TO SCALE



NOTES:
1. SEE ONE LINE DIAGRAM FOR NUMBER OF METERING POINTS FOR EACH FLOOR.
2. PROVIDE SUBMETERING FOR GAS, HOT WATER AND COLD WATER FOR EACH UNIT. METERING SHALL BE COMPATIBLE WITH LEVITON EQUIPMENT.

3 TYPICAL SUBMETERING COMMUNICATION DIAGRAM - GAS AND WATER
NOT TO SCALE

FSC ARCHITECTS

DEVELOPER:
CALIFORNIA INVESTMENT REGIONAL CENTER, LLC

PROJECT OWNER:
HAWAII CITY PLAZA, LP

Hawaii City Plaza
Honolulu, Hawaii
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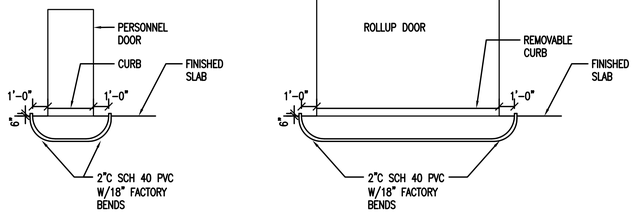
PERMIT SET

DATE 2019 MARCH 19

PROJECT # 15028-02

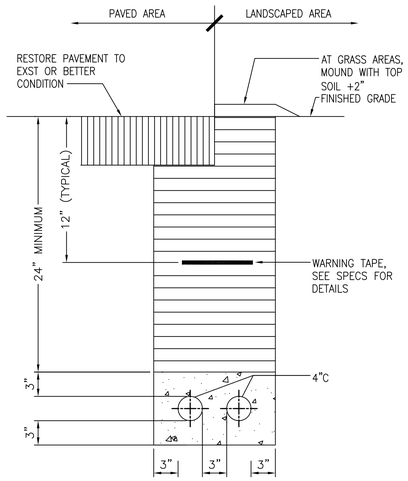
SHEET TITLE
SUBMETERING & COMM DIAGRAMS

SHEET NO.
E3.102

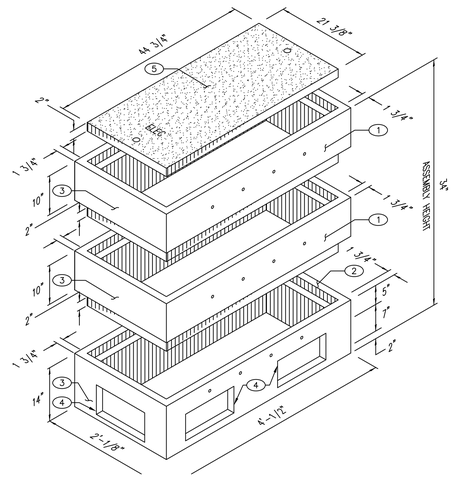


PERSONNEL DOOR ELEVATION ROLLUP DOOR ELEVATION

1 HECO VAULT DOOR ELEVATIONS
1/4" = 1'-0"



2 CONCRETE ENCASED DUCT DETAIL
NOT TO SCALE



NOTES:

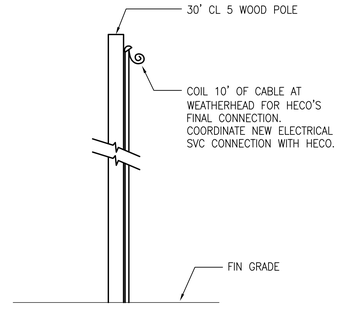
- HANDHOLE DESIGNED USING 4,000 Psi COMPRESSIVE STRENGTH CONCRETE AND 60,000 Psi YIELD STRENGTH ASTM A-615 STEEL REINFORCEMENT PER CALCS.
- ALL CONCRETE AND REINFORCED CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF THE AMERICAN CONCRETE INSTITUTE'S BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-87).
- HANDHOLE TO BE PLACED ON A 6" BASE ON FIRM/COMPACTED BACKFILL OR ON UNDISTURBED SOIL.

THE FOLLOWING MATERIALS TO BE SHIPPED WITH EACH HANDHOLE: ORDERING INFORMATION:

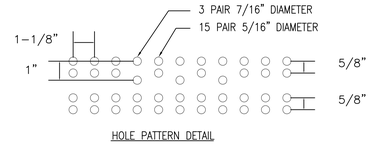
2"X4"X34" "ELEC" FOR ASSEMBLY AS SHOWN.
TOTAL WEIGHT OF ASSEMBLY SHOWN IS 1230#.

1. TOP SECTION. WT. 400#.
2. BOTTOM SECTION W/ KNOCKOUTS. WT. 430#
3. 1/2"ø x 4" LIFTING HOLE (CONTR. TO GROUT SOLID AFTER PLACEMENT SECTION).
4. CONDUIT OPENING KNOCKOUT.
5. CONCRETE COVER.

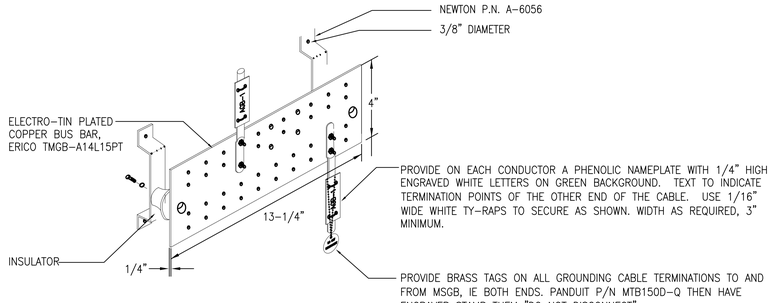
3 2' X 4' HANDHOLE DETAIL
NOT TO SCALE



4 HECO POLE RISER DETAIL
NOT TO SCALE

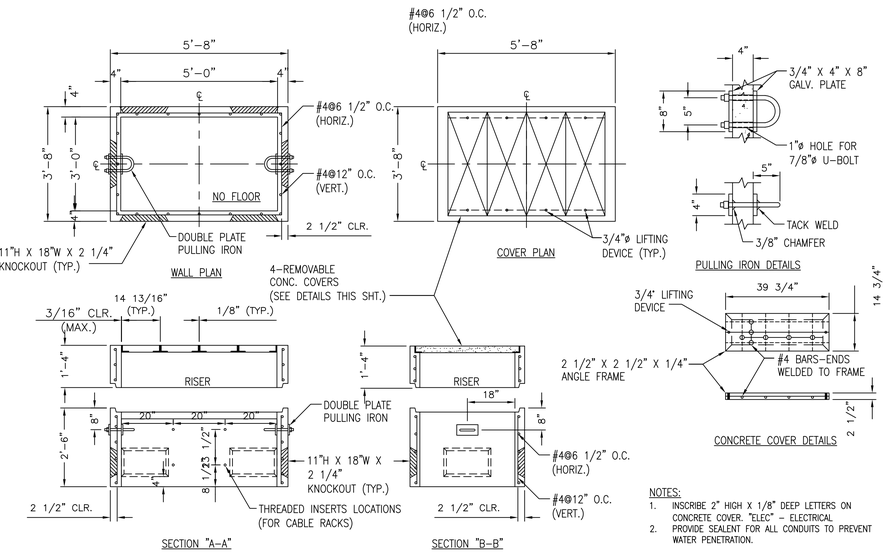


HOLE PATTERN DETAIL



NOTES:
1. BUS BARS OVER 20" IN LENGTH REQUIRE AT LEAST ONE ADDITIONAL 2-3/4" INSULATOR (NEWTON P.N. 3061-4) SUPPORT.
2. TERMINATE CONDUCTORS COMING FROM ABOVE ON TOP THREE ROWS OF HOLES AND USE BOTTOM THREE ROWS FOR CONDUCTORS COMING FROM BELOW.
3. HOLE PATTERN TO COMPLY WITH J-STD-607-A.

5 GROUND BUS BAR DETAIL
NOT TO SCALE



NOTES:
1. INSCRIBE 2" HIGH X 1/8" DEEP LETTERS ON CONCRETE COVER. "ELEC" – ELECTRICAL
2. PROVIDE SEALENT FOR ALL CONDUITS TO PREVENT WATER PENETRATION.

6 4' X 6' HANDHOLE DETAIL
NOT TO SCALE

FSC ARCHITECTS

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DEREK H. FUJIKAWA
LICENSED PROFESSIONAL ENGINEER
No. 7246-E
HAWAII, U.S.A.

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PROJECT OWNER:
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Hawaii City Plaza
Honolulu, Hawaii
710 Sheridan Street
TMK 2-3-014: Parcels 002, 004, & 011

PERMIT SET

DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
DETAILS

SHEET NO.
E5.101

SD500 | 15.2L | 500 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

Standby Power Rating
500 kW, 625 kVA, 60 Hz

Prime Power Rating*
450 kW, 563 kVA, 60 Hz

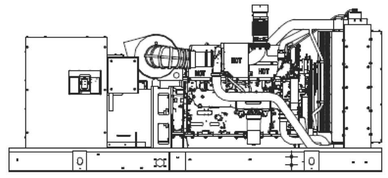


Image used for illustration purposes only

*EPA Certified Prime ratings are not available in the US or its Territories
**Built in the USA using domestic and foreign parts

Codes and Standards

Generac products are designed to the following standards:

- UL2200, UL508, UL142, UL489
- NFPA 37, 70, 99, 110
- NEC700, 701, 702, 708
- ISO 3046, 7637, 8528, 9001
- NEMA ICS10, MG1, 250, ICS6, AB1
- ANSI C62.41
- IBC 2009, CBC 2010, IBC 2012, ASCE 7-05, ASCE 7-10, ICC-ES AC-156 (2012)

Powering Ahead

For over 50 years, Generac has provided innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial applications under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

SPEC SHEET

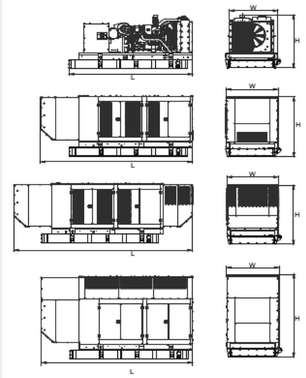
1 of 6

SD500 | 15.2L | 500 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

DIMENSIONS AND WEIGHTS*



OPEN SET (Includes Exhaust Flex)

Run Time Hours	Usable Capacity Gal (L)	L x W x H (in (mm)	Weight lbs (kg)
No Tank	-	154.4 (3923) x 71 (1803) x 67 (1702)	10580 (4799)
10	334	158.5 (4026) x 71 (1803) x 81 (2057)	12255 (5559)
32	1001	158.5 (4026) x 71 (1803) x 103 (2616)	13160 (6228)
32	1001	228 (5791) x 71 (1803) x 103 (2616)	13730 (6228)
64	2002	290 (7366) x 71 (1803) x 103 (2616)	15430 (6999)

STANDARD ENCLOSURE

Run Time Hours	Usable Capacity Gal (L)	L x W x H (in (mm)	Weight lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	207.4 (5268) x 71 (1803) x 80 (2032)		
10	334	207.4 (5268) x 71 (1803) x 94 (2388)		
32	1001	207.4 (5268) x 71 (1803) x 116 (2946)	1999 (907)	869 (394)
32	1001	228 (5791) x 71 (1803) x 105 (2667)		
64	2002	290 (7366) x 71 (1803) x 116 (2946)		

LEVEL 1 ACOUSTIC ENCLOSURE

Run Time Hours	Usable Capacity Gal (L)	L x W x H (in (mm)	Weight lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	247.5 (6285) x 71 (1803) x 80 (2032)		
10	334	247.5 (6285) x 71 (1803) x 94 (2388)		
32	1001	247.5 (6285) x 71 (1803) x 116 (2946)	2782 (1262)	1291 (586)
32	1001	247.5 (6285) x 71 (1803) x 105 (2667)		
64	2002	290 (7366) x 71 (1803) x 116 (2946)		

LEVEL 2 ACOUSTIC ENCLOSURE

Run Time Hours	Usable Capacity Gal (L)	L x W x H (in (mm)	Weight lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	207.4 (5268) x 71 (1803) x 114 (2899)		
10	334	207.4 (5268) x 71 (1803) x 128 (3251)		
32	1001	207.4 (5268) x 71 (1803) x 150 (3810)	3330 (1510)	1522 (692)
32	1001	228 (5791) x 71 (1803) x 139 (3531)		
64	2002	290 (7366) x 71 (1803) x 150 (3810)		

* All measurements are approximate and for estimation purposes only.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

Generac Power Systems, Inc. | P.O.Box 8 | Waukesha, WI 53189

Part No 0197160SBY
Rev. D 09/21/15

SPEC SHEET

6 of 6

SD500 | 15.2L | 500 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

OPERATING DATA

POWER RATINGS

		Standby
Three-Phase 120/208 VAC @0.8pf	500 kW	Amps: 1735
Three-Phase 120/240 VAC @0.8pf	500 kW	Amps: 1504
Three-Phase 277/480 VAC @0.8pf	500 kW	Amps: 752
Three-Phase 346/600 VAC @0.8pf	500 kW	Amps: 601

STARTING CAPABILITIES (sKVA)

sKVA vs. Voltage Dip

480 VAC								208/240 VAC							
Alternator	kW	10%	15%	20%	25%	30%	35%	Alternator	kW	10%	15%	20%	25%	30%	35%
Standard	500	457	686	914	1143	1371	1600	Standard	500	429	643	857	1071	1286	1500
Upsize 1	642	471	707	943	1179	1414	1650	Upsize 1	689	543	814	1086	1357	1629	1900
Upsize 2	832	757	1136	1514	1893	2271	2650	Upsize 2	723	571	857	1143	1429	1714	2000

FUEL CONSUMPTION RATES*

Fuel Pump Lift - ft (m)	Diesel - gph (lph)	
12 (3.7)	Percent Load	Standby
	25%	10.5 (39.7)
	50%	19.5 (73.8)
Total Fuel Pump Flow (Combustion + Return) gph (lph)	75%	23.7 (89.7)
121 (457)	100%	31.2 (118.1)

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

		Standby
Coolant Flow per Minute	gpm (lpm)	114.1 (432)
Coolant System Capacity	gal (L)	264 (999)
Heat Rejection to Coolant	BTU/hr	1,198,080
Inlet Air	cfm (m^3/min)	30,582 (866)
Max. Operating Ambient Temperature (Before Derate)	°F (°C)	104 (40)
Maximum Radiator Backpressure	in H_2O	0.50

COMBUSTION AIR REQUIREMENTS

	Standby
Flow at Rated Power cfm (m^3/min)	1483 (42)

ENGINE

		Standby
Rated Engine Speed	rpm	1800
Horsepower at Rated kW**	hp	835
Piston Speed	ft/min	2020
BMEP	psi	366

EXHAUST

		Standby
Exhaust Flow (Rated Output)	cfm (m^3/min)	3400 (96)
Max. Backpressure (Post Silencer)	in Hg (Kpa)	2.01 (6.8)
Exhaust Temp (Rated Output - Post Silencer)	°F (°C)	1022 (550)
Exhaust Outlet Size (Open Set)	mm (in)	127 (5)

** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.
Please consult a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528 and DIN6271 standards.

SPEC SHEET

5 of 6

FSC ARCHITECTS

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DEREK H. FUJIKAMI LICENSED PROFESSIONAL ENGINEER No. 7246-E HAWAII, U.S.A.

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PROJECT OWNER:
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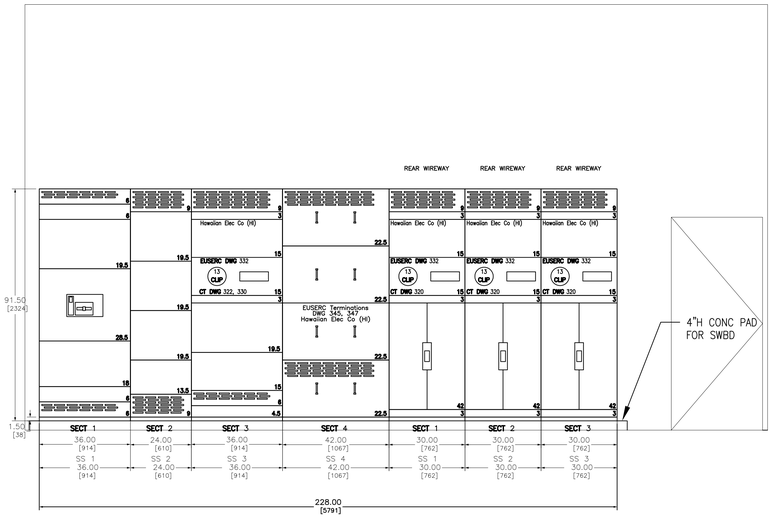
PERMIT SET

DATE 2019 MARCH 19

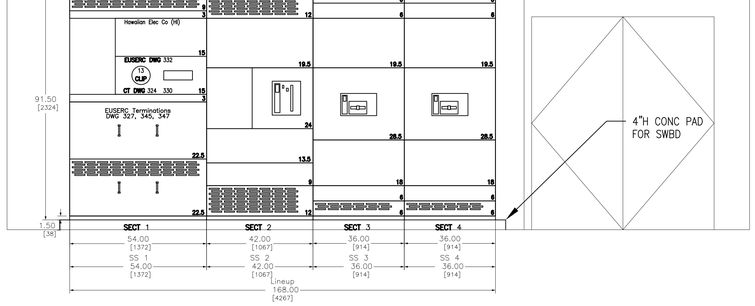
PROJECT # 15028-02

SHEET TITLE
DETAILS

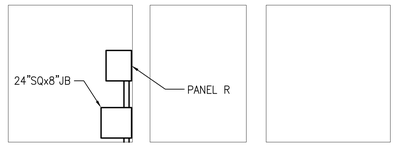
SHEET NO.
E5.102



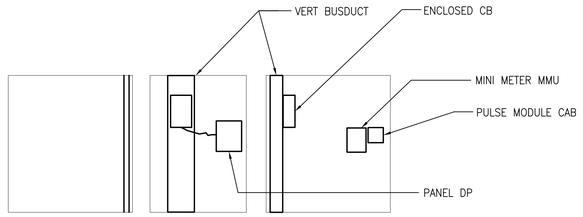
1 2000A COMMERCIAL AND HOUSE SWITCHBOARD
1/2" = 1'-0"



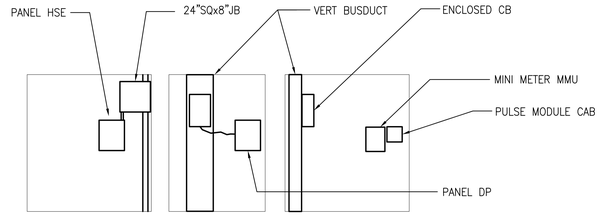
2 4000A RESIDENTIAL SWITCHBOARD
1/2" = 1'-0"



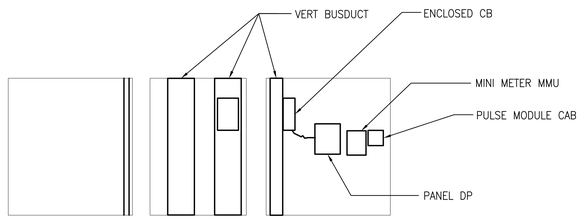
3 ROOF ELEC RM ELEVATION
1/4" = 1'-0"



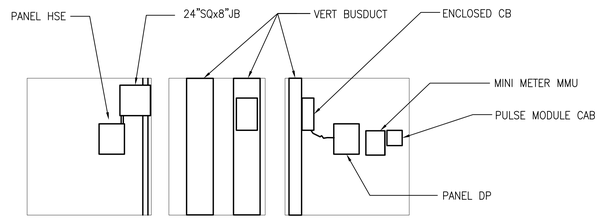
4 TYPICAL ELEC RM ELEVATION FOR FLRS 17,18,20,21,22,23,25, & 26
1/4" = 1'-0"



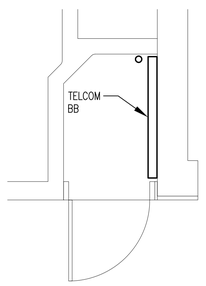
5 TYPICAL ELEC RM ELEVATION FOR FLRS 19 & 24
1/4" = 1'-0"



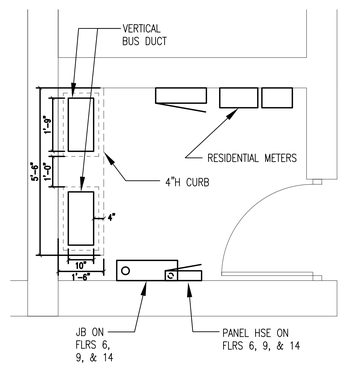
6 TYPICAL ELEC RM ELEVATION FOR FLRS 7,8,10,11,12,13,15, & 16
1/4" = 1'-0"



7 TYPICAL ELEC RM ELEVATION FOR FLRS 6,9,& 14
1/4" = 1'-0"



8 TYPICAL TELCOMM RM ON RESIDENTIAL FLRS
1/2" = 1'-0"



9 TYPICAL ELEC RM ON RESIDENTIAL FLRS
1/2" = 1'-0"

FSC ARCHITECTS

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DEREK H. FUJIKAWA
LICENSED PROFESSIONAL ENGINEER
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PERMIT SET

DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
DETAILS

SHEET NO.
E5.103

MAIN DISTRIBUTION PANEL DP1

PROJECT: HAWAII CITY PLAZA | VOLTS-PHASE-W: 208/120-3-4 MLO
LOCATION: FIRST FLOOR ELEC RM | BUS AMPS: 1200A
MOUNTING: SURFACE | SHORT CKT RATING: 50KAIC
BREAKERS: BOLT-ON

	DESCRIPTION	KVA	WIRE	BKR	PHASE	BKR	WIRE	KVA	DESCRIPTION	
1	PANEL H1	22.83	4/0	3P225A	A	3P100A	1/0	2.98	PANEL H14	2
3	PART OF 1	22.83	4/0	----	B	----	1/0	2.98	PART OF 2	4
5	PART OF 1	22.83	4/0	----	C	----	1/0	2.98	PART OF 2	6
7	PANEL H6	9.31	1/0	3P100A	A	3P100A	1/0	3.54	PANEL H19	8
9	PART OF 7	9.31	1/0	----	B	----	1/0	3.54	PART OF 8	10
11	PART OF 7	9.31	1/0	----	C	----	1/0	3.54	PART OF 8	12
13	PANEL H9	3.20	1/0	3P100A	A	3P100A	1/0	3.54	PANEL H24	14
15	PART OF 13	3.20	1/0	----	B	----	1/0	3.54	PART OF 14	16
17	PART OF 13	3.20	1/0	----	C	----	1/0	3.54	PART OF 14	18
19	PANEL R	13.71	300MCM	3P100A	A	3P250A	300MCM	28.00	DOAS-1	20
21	PART OF 19	13.71	300MCM	----	B	----	300MCM	28.00	PART OF 20	22
23	PART OF 19	13.71	300MCM	----	C	----	300MCM	28.00	PART OF 20	24
25	PANEL 2ELEV	52.00	500MCM	3P500A	A	3P250A	300MCM	28.00	DOAS-2	26
27	PART OF 25	52.00	500MCM	----	B	----	300MCM	28.00	PART OF 26	28
29	PART OF 25	52.00	500MCM	----	C	----	300MCM	28.00	PART OF 26	30
31	ELEVATOR #4	4.00	2	3P80A	A	1P20A	10	1.00	L - ELEVATOR #4	32
33	PART OF 31	4.00	2	----	B	1P20A	10	1.00	R - ELEVATOR #4	34
35	PART OF 31	4.00	2	----	C	1P			PFB	36
37	PFB			1P	A	1P			PFB	38
39	PFB			1P	B	1P			PFB	40
41	PFB			1P	C	1P			PFB	42

CONNECTED LOAD: PHASE A: 172.1 KVA | TOTAL LOAD: 515.3 KVA
CONNECTED LOAD: PHASE B: 172.1 KVA | ESTIMATED DEMAND 412.3 KVA
CONNECTED LOAD: PHASE C: 171.1 KVA | TOTAL CALCULATED LOAD: 1144.3 A

PANEL DP6

PROJECT: HAWAII CITY PLAZA | VOLTS-PHASE-W: 208/120-3-4 MLO
LOCATION: SIXTH FLOOR ELEC RM | BUS AMPS: 400A
MOUNTING: SURFACE | SHORT CKT RATING: 18KAIC
BREAKERS: BOLT-ON

	DESCRIPTION	KVA	WIRE	BKR	PHASE	BKR	WIRE	KVA	DESCRIPTION	
1	UNIT 601	8.00	2	2P100A	A	2P125A	#1/0	9.70	UNIT 603	2
3	PART OF 1	8.00	2	----	B	----	#1/0	9.70	PART OF 2	4
5	UNIT 602	8.00	2	2P100A	C	2P125A	#1/0	9.50	UNIT 604	6
7	PART OF 5	8.00	2	----	A	----	#1/0	9.50	PART OF 6	8
9	PFB			1P	B	3P60A	6	6.60	ACCU-6	10
11	PFB			1P	C	----	6	6.60	PART OF 10	12
13	PFB			1P	A	----	6	6.60	PART OF 10	14
15	PFB			1P	B	1P20A			S -	16
17	PFB			1P	C	1P			PFB	18
19	PFB			1P	A	1P			PFB	20
21	PFB			1P	B	1P			PFB	22
23	PFB			1P	C	1P			PFB	24

CONNECTED LOAD: PHASE A: 41.8 KVA | TOTAL LOAD: 90.2 KVA
CONNECTED LOAD: PHASE B: 24.3 KVA | ESTIMATED DEMAND 72.2 KVA
CONNECTED LOAD: PHASE C: 24.1 KVA | TOTAL CALCULATED LOAD: 200.3 A

TYPICAL PANEL DP (FOR FLOORS 7 TO 26)

PROJECT: HAWAII CITY PLAZA | VOLTS-PHASE-W: 208/120-3-4 MLO
LOCATION: ELEC RM FOR FLOORS 7 TO 26 | BUS AMPS: 600A
MOUNTING: SURFACE | SHORT CKT RATING: 18KAIC
BREAKERS: BOLT-ON

	DESCRIPTION	KVA	WIRE	BKR	PHASE	BKR	WIRE	KVA	DESCRIPTION	
1	UNIT TYPE A1	8.00	2	2P100A	A	2P125A	#1/0	9.00	UNIT TYPE C	2
3	PART OF 1	8.00	2	----	B	----	#1/0	9.00	PART OF 2	4
5	UNIT TYPE A2	8.00	2	2P100A	C	2P100A	2	8.20	UNIT TYPE D	6
7	PART OF 5	8.00	2	----	A	----	2	8.20	PART OF 6	8
9	UNIT TYPE A3	8.00	2	2P100A	B	2P125A	#1/0	8.60	UNIT TYPE E	10
11	PART OF 9	8.00	2	----	C	----	#1/0	8.60	PART OF 10	12
13	UNIT TYPE B	9.50	#1/0	2P125A	A	2P100A	2	7.80	UNIT TYPE G	14
15	PART OF 13	9.50	#1/0	----	B	----	2	7.80	PART OF 14	16
17	S -			1P20A	C	2P125A	#1/0	10.40	UNIT TYPE H	18
19	S -			1P20A	A	----	#1/0	10.40	PART OF 18	20
21	S -			1P20A	B	1P			PFB	22
23	S -			1P20A	C	1P			PFB	24

CONNECTED LOAD: PHASE A: 60.9 KVA | TOTAL LOAD: 155.0 KVA
CONNECTED LOAD: PHASE B: 50.9 KVA | ESTIMATED DEMAND 124.0 KVA
CONNECTED LOAD: PHASE C: 43.2 KVA | TOTAL CALCULATED LOAD: 344.2 A

PANEL H1

PROJECT: HAWAII CITY PLAZA | VOLTS-PHASE-W: 208/120-3-4 MLO
LOCATION: FIRST FLOOR ELEC RM | BUS AMPS: 225A
MOUNTING: SURFACE | SHORT CKT RATING: 10 KAIC
BREAKERS: BOLT-ON

	DESCRIPTION	KVA	WIRE	BKR	PHASE	BKR	WIRE	KVA	DESCRIPTION	
1	R - COMMUNITY ROOM	0.50	12	1P20A	A	1P20A	12	0.50	R- LOBBIES	2
3	R - FIRE CONTROL RM	1.00	12	1P20A	B	1P20A	12	1.00	R - MECH RM	4
5	GENERATOR BATTERY CHARGER	1.00	12	1P20A	C	1P20A	12	1.00	R - MAIN ELEC RM	6
7	R - ELEVATOR PIT #1	1.00	12	1P20A	A	1P20A	12	1.00	R - TELCOM RM	8
9	R - ELEVATOR PIT #2	1.00	12	1P20A	B	1P20A	12	1.00	R - ELEC RM	10
11	R - ELEVATOR PIT #3	1.00	12	1P20A	C	1P20A	12	1.00	ELEV SUMP PUMP #1	12
13	R - ELEVATOR PIT #4	1.00	12	1P20A	A	1P20A	12	1.00	ELEV SUMP PUMP #3	14
15	L - CUSTOMER PARKING, DOG PARK	0.90	10	1P20A	B	1P20A	12	1.00	ELEV SUMP PUMP #4	16
17	L - COMMUNITY RM, ELEV LOBBY 4, BLDG PERMETER	0.80	10	1P20A	C	1P20A	10	0.90	R & L - MEZZ & SEC FLR (WEST SIDE)	18
19	L - RESTRMS, LOFT A & B, HALLWAY, MAIN LOBBY	0.80	10	1P20A	A	1P20A	10	1.20	R & L - SECOND FLR (EAST SIDE)	20
21	L - RES PARKING, ELEC RM, FIRE OFFICE	0.90	10	1P20A	B	1P20A	10	1.00	R & L - THIRD & FOURTH FLR (WEST SIDE)	22
23	L - MECH & FIRE PUMP RMS, HALLWAY, LOFT C	0.90	10	1P20A	C	1P20A	10	1.30	R & L - THIRD & FOURTH FLR (EAST SIDE)	24
25	R - IRRIGATION CONTROLLER	0.50	10	1P20A	A	1P20A	12	0.50	FACP	26
27	ACCU-1.1	0.94	12	2P15A	B	1P20A	12	0.05	(2) EF-1.1, EF-1.2	28
29	PART OF 27	0.94	12	----	C	2P15A	12	0.83	ACCU-3.1	30
31	ACCU-1.2	1.72	12	2P25A	A	----	12	0.83	PART OF 30	32
33	PART OF 31	1.72	12	----	B	2P15A	12	0.83	ACCU-4.1	34
35	FCU-1.2, FCU-2.1	0.33	12	2P15A	C	----	12	0.83	PART OF 34	36
37	PART OF 35	0.33	12	----	A	3P90A	2	15.00	BOOSTER PUMP	38
39	ACCU-2.1	1.72	12	2P25A	B	----	2	15.00	PART OF 38	40
41	PART OF 39	1.72	12	----	C	----	2	15.00	PART OF 38	42
43	SMOKE CURTAIN - PARKING ELEV LOBBIES	1.40	12	1P20A	A	1P20A	12	0.60	SMOKE CURTAIN - 5TH FLR ELEV LOBBY	44
45	SMOKE CURTAIN - 1ST & 2ND FLRS ELEV LOBBIES	1.20	12	1P20A	B				PFB	46
47	SMOKE CURTAIN - 3RD & 4TH FLR ELEV LOBBIES	1.20	12	1P20A	C				PFB	48

CONNECTED LOAD: PHASE A: 27.9 KVA | TOTAL LOAD: 85.9 KVA
CONNECTED LOAD: PHASE B: 29.3 KVA | ESTIMATED DEMAND 68.5 KVA
CONNECTED LOAD: PHASE C: 28.7 KVA | TOTAL CALCULATED LOAD: 190.1 A

PANEL H6

PROJECT: HAWAII CITY PLAZA | VOLTS-PHASE-W: 208/120-3-4 MLO
LOCATION: SIXTH FLOOR ELEC RM | BUS AMPS: 100A
MOUNTING: SURFACE | SHORT CKT RATING: 10 KAIC
BREAKERS: BOLT-ON

	DESCRIPTION	KVA	WIRE	BKR	PHASE	BKR	WIRE	KVA	DESCRIPTION	
1	L - INTERIOR	0.90	12	1P20A	A	1P20A	12	0.50	SUBMETERING 6TH FLOOR	2
3	R - EXT, GYM, POOL RM, MGR OFF	1.00	12	1P20A	B	1P20A	12	1.00	FATC ON 5TH FLOOR	4
5	R - THEATER, HALLWAY, MULTI FUNC RM,	1.00	12	1P20A	C	1P20A	12	0.50	R & L - 5TH & 6TH FLOOR (WEST SIDE)	6
7	R - THEATER	1.00	12	1P20A	A	1P20A	12	1.20	R & L - 5TH FLR (EAST SIDE)	8
9	R - THEATER REFRIG	1.20	12	1P20A	B	1P20A	12	1.20	R - LOUNGE REFRIG	10
11	R - GAME RM, CUST RM, LOUNGE	1.00	12	1P20A	C	1P20A	12	1.00	R - LOUNGE CTR, GAS RANGE	12
13	L - EXTERIOR	0.80	10	1P20A	A	1P20A	12	1.00	R - LOUNGE CTR	14
15	L - TRELLIS, STAIRWELL 4	0.60	10	1P20A	B	3P60A	6	3.82	ACCU-6.1	16
17	FCU-6.1, FCU-6.2	0.45	12	2P15A	C	----	6	3.82	PART OF 16	18
19	PART OF 17	0.45	12	----	A	----	6	3.82	PART OF 16	20
21	FCU-6.3, FCU-6.4, FCU-6.5	0.68	12	2P15A	B	2P15A	12	0.99	FCU-6.6	22
23	PART OF 21	0.68	12	----	C	----	12	0.99	PART OF 22	24
25	(2) EF-6.1, EF-6.2, EF-6.3	0.20	12	1P20A	A	1P20A			S -	26
27	ACCU-5.1	0.83	10	2P15A	B	1P20A			S -	28
29	PART OF 43	0.83	10	----	C	1P20A			S -	30
31	SMOKE CURTAIN - 6TH & 7TH FLR ELEV LOBBIES	1.40	12	1P20A	A				PFB	32
33	PFB				B				PFB	34
35	PFB				C				PFB	36
37	PFB				A				PFB	38
39	PFB				B				PFB	40
41	PFB				C				PFB	42

CONNECTED LOAD: PHASE A: 11.3 KVA | TOTAL LOAD: 32.8 KVA
CONNECTED LOAD: PHASE B: 11.3 KVA | ESTIMATED DEMAND 27.9 KVA
CONNECTED LOAD: PHASE C: 10.3 KVA | TOTAL CALCULATED LOAD: 77.5 A

PANEL H9

PROJECT: HAWAII CITY PLAZA | VOLTS-PHASE-W: 208/120-3-4 MLO
LOCATION: NINTH FLOOR ELEC RM | BUS AMPS: 100A
MOUNTING: SURFACE | SHORT CKT RATING: 10 KAIC
BREAKERS: BOLT-ON

	DESCRIPTION	KVA	WIRE	BKR	PHASE	BKR	WIRE	KVA	DESCRIPTION	
1	L - 7TH FLOOR CORRIDOR & STAIRWELL	0.50	12	1P20A	A	1P20A	12	0.50	SUBMETERING 7TH FLOOR	2
3	L - 8TH FLOOR CORRIDOR & STAIRWELL	0.50	12	1P20A	B	1P20A	12	0.50	SUBMETERING 8TH FLOOR	4
5	L - 9TH FLOOR CORRIDOR & STAIRWELL	0.50	12	1P20A	C	1P20A	12	0.50	SUBMETERING 9TH FLOOR	6
7	L - 10TH FLOOR CORRIDOR & STAIRWELL	0.50	12	1P20A	A	1P20A	12	0.50	SUBMETERING 10TH FLOOR	8
9	L - 11TH FLOOR CORRIDOR & STAIRWELL	0.50	12	1P20A	B	1P20A	12	0.50	SUBMETERING 11TH FLOOR	10
11	R - 7TH & 8 FLR CORRIDORS	0.50	12	1P20A	C	1P20A	12	1.00	FATC ON 8TH FLOOR	12
13	R - 9TH & 10TH FLR CORRIDORS	0.50	12	1P20A	A	1P20A	12	1.00	FATC ON 11TH FLOOR	14
15	R - 11TH & 12TH FLR CORRIDORS	0.50	12	1P20A	B	1P			PFB	16
17	SMOKE CURTAIN - 8TH & 9TH FLR ELEV LOBBIES	1.40	12	1P20A	C	1P			PFB	18
19	SMOKE CURTAIN - 10TH & 11TH FLR ELEV LOBBIES	1.40	12	1P20A	A	1P			PFB	20
21	S -			1P20A	B	1P			PFB	22
23	S -			1P20A	C	1P			PFB	24

CONNECTED LOAD: PHASE A: 4.9 KVA | TOTAL LOAD: 11.3 KVA
CONNECTED LOAD: PHASE B: 2.5 KVA | ESTIMATED DEMAND 9.6 KVA
CONNECTED LOAD: PHASE C: 3.9 KVA | TOTAL CALCULATED LOAD: 26.7 A

PANEL H14

PROJECT: HAWAII CITY PLAZA | VOLTS-PHASE-W: 208/120-3-4 MLO
LOCATION: FOURTEENTH FLOOR ELEC RM | BUS AMPS: 100A
MOUNTING: SURFACE | SHORT CKT RATING: 10 KAIC
BREAKERS: BOLT-ON

	DESCRIPTION	KVA	WIRE	BKR	PHASE	BKR	WIRE	KVA	DESCRIPTION	
1	L - 12TH FLOOR CORRIDOR & STAIRWELL	0.30	12	1P20A	A	1P20A	12	0.50	SUBMETERING 12TH FLOOR	2
3	L - 13TH FLOOR CORRIDOR & STAIRWELL	0.30	12	1P20A	B	1P20A	12	0.50	SUBMETERING 13TH FLOOR	4
5	L - 14TH FLOOR CORRIDOR & STAIRWELL	0.30	12	1P20A	C	1P20A	12	0.50	SUBMETERING 14TH FLOOR	6
7	L - 15TH FLOOR CORRIDOR & STAIRWELL	0.30	12	1P20A	A	1P20A	12	0.50	SUBMETERING 15TH FLOOR	8
9	L - 16TH FLOOR CORRIDOR & STAIRWELL	0.30	12	1P20A	B	1P20A	12	0.50	SUBMETERING 16TH FLOOR	10
11	R - 13TH AND 14TH FLR CORRIDORS	1.00	12	1P20A	C	1P20A	12	1.00	FATC ON 14TH FLOOR	12
13	R - 15TH AND 16TH FLR CORRIDORS	1.00	12	1P20A	A	1P			PFB	14
15	SMOKE CURTAIN - 12TH & 13TH FLR ELEV LOBBIES	1.40	12	1P20A	B	1P			PFB	16
17	SMOKE CURTAIN - 14TH & 15TH FLR ELEV LOBBIES	1.40	12	1P20A	C	1P			PFB	18
19	SMOKE CURTAIN - 16TH FLR ELEV LOBBY	0.70	12	1P20A	A	1P			PFB	20
21	S -			1P20A	B	1P			PFB	22
23	S -			1P20A	C	1P			PFB	24

CONNECTED LOAD: PHASE A: 3.3 KVA | TOTAL LOAD: 10.5 KVA
CONNECTED LOAD: PHASE B: 3.0 KVA | ESTIMATED DEMAND 8.9 KVA
CONNECTED LOAD: PHASE C: 4.2 KVA | TOTAL CALCULATED LOAD: 24.8 A

PANEL H19

PROJECT: HAWAII CITY PLAZA | VOLTS-PHASE-W: 208/120-3-4 MLO
LOCATION: NINETEENTH FLOOR ELEC RM | BUS AMPS: 100A
MOUNTING: SURFACE | SHORT CKT RATING: 10 KAIC
BREAKERS: BOLT-ON

	DESCRIPTION	KVA	WIRE	BKR	PHASE	BKR	WIRE	KVA	DESCRIPTION	
1	L - 17TH FLOOR CORRIDOR & STAIRWELL	0.30	12	1P20A	A	1P20A	12	0.50	SUBMETERING 17TH FLOOR	2
3	L - 18TH FLOOR CORRIDOR & STAIRWELL	0.30	12	1P20A	B	1P20A	12	0.50	SUBMETERING 18TH FLOOR	4
5	L - 19TH FLOOR CORRIDOR & STAIRWELL	0.30	12	1P20A	C	1P20A	12	0.50	SUBMETERING 19TH FLOOR	6
7	L - 20TH FLOOR CORRIDOR & STAIRWELL	0.30	12	1P20A	A	1P20A	12	0.50	SUBMETERING 20TH FLOOR	8
9	L - 21TH FLOOR CORRIDOR & STAIRWELL	0.30	12	1P20A	B	1P20A	12	0.50	SUBMETERING 21TH FLOOR	10
11	R - 17TH AND 18TH FLR CORRIDORS	1.00	12	1P20A	C	1P20A	12	1.00	FATC ON 17TH FLOOR	12
13	R - 19TH AND 20TH FLR CORRIDORS	1.00	12	1P20A	A	1P20A	12	1.00	FATC ON 20TH FLOOR	14
15	R - 21ST FLR CORRIDOR	1.00	12	1P20A	B	1P			PFB	16
17	SMOKE CURTAIN - 17TH & 18TH FLR ELEV LOBBIES	1.40	12	1P20A	C	1P			PFB	18
19	SMOKE CURTAIN - 19TH & 20TH FLR ELEV LOBBIES	1.40	12	1P20A	A	1P			PFB	20
21	SMOKE CURTAIN - 21ST FLR ELEV LOBBY	0.70	12	1P20A	B	1P			PFB	22
23	S -			1P20A	C	1P			PFB	24

CONNECTED LOAD: PHASE A: 5.0 KVA | TOTAL LOAD: 12.5 KVA
CONNECTED LOAD: PHASE B: 3.3 KVA | ESTIMATED DEMAND 10.6 KVA
CONNECTED LOAD: PHASE C: 4.2 KVA | TOTAL CALCULATED LOAD: 29.5 A

PANEL H24

PROJECT: HAWAII CITY PLAZA | VOLTS-PHASE-W: 208/120-3-4 MLO
LOCATION: TWENTYFOURTH FLOOR ELEC RM | BUS AMPS: 100A
MOUNTING: SURFACE | SHORT CKT RATING: 10 KAIC
BREAKERS: BOLT-ON

	DESCRIPTION	KVA	WIRE	BKR	PHASE	BKR	WIRE	KVA	DESCRIPTION	
1	L - 22TH FLOOR CORRIDOR & STAIRWELL	0.30	12	1P20A	A	1P20A	12	0.50	SUBMETERING 22TH FLOOR	2
3	L - 23RD FLOOR CORRIDOR & STAIRWELL	0.30	12	1P20A	B	1P20A	12	0.50	SUBMETERING 23RD FLOOR	4
5	L - 24TH FLOOR CORRIDOR & STAIRWELL	0.30	12	1P20A	C	1P20A	12	0.50	SUBMETERING 24TH FLOOR	6
7	L - 25TH FLOOR CORRIDOR & STAIRWELL	0.30	12	1P20A	A	1P20A	12	0.50	SUBMETERING 25TH FLOOR	8
9	L - 26TH FLOOR CORRIDOR & STAIRWELL	0.30	12	1P20A	B	1P20A	12	0.50	SUBMETERING 26TH FLOOR	10
11	R - 22TH AND 23RD FLR CORRIDORS	1.00	12	1P20A	C	1P20A	12	1.00	FATC ON 23RD FLOOR	12
13	R - 24TH AND 25TH FLR CORRIDORS	1.00	12	1P20A	A	1P20A	12	1.00	FATC ON 26TH FLOOR	14
15	R - 26TH FLR CORRIDOR	1.00	12	1P20A	B	1P			PFB	16
17	SMOKE CURTAIN - 22TH & 23RD FLR ELEV LOBBIES	1.40	12	1P20A	C	1P			PFB	18
19	SMOKE CURTAIN - 24TH & 25TH FLR ELEV LOBBIES	1.40	12	1P20A	A	1P			PFB	20
21	SMOKE CURTAIN - 26TH FLR ELEV LOBBY	0.70	12	1P20A	B	1P			PFB	22
23	S -			1P20A	C	1P			PFB	24

CONNECTED LOAD: PHASE A: 5.0 KVA | TOTAL LOAD: 12.5 KVA
CONNECTED LOAD: PHASE B: 3.3 KVA | ESTIMATED DEMAND 10.6 KVA
CONNECTED LOAD: PHASE C: 4.2 KVA | TOTAL CALCULATED LOAD: 29.5 A

PANEL R

PROJECT: HAWAII CITY PLAZA | VOLTS-PHASE-W: 208/120-3-4 MLO
LOCATION: ROOF ELEC RM | BUS AMPS: 225A
MOUNTING: SURFACE | SHORT CKT RATING: 10 KAIC
BREAKERS: BOLT-ON

	DESCRIPTION	KVA	WIRE	BKR	PHASE	BKR	WIRE	KVA	DESCRIPTION	
1	R - SERVICE RECEPTACLES	1.00	12	1P20A	A	2P20A	12	0.80	EF-K.2	2
3	EF-K.3	0.80	12	2P20A	B	----	12	0.80	PART OF 2	4
5	PART OF 3	0.80	12	----	C	2P15A	12	0.40	EF-D.2	6
7	EF-T.4	0.20	12	2P15A	A	----	12	0.40	PART OF 6	8
9	PART OF 7	0.20	12	----	B	2P20A	12	0.80	EF-K.2	10
11	EF-D.1	0.30	12	2P15A	C	----	12	0.80	PART OF 10	12
13	PART OF 11	0.30	12	----	A	2P20A	12	0.80	EF-K.1	14
15	EF-D.3	0.80	12	2P20A	B	----	12	0.80	PART OF 14	16
17	PART OF 15	0.80	12	----	C	2P15A	12	0.30	EF-D.1	18
19	EF-T.1, EF-R.1	0.40	12	2P15A	A	----	12	0.30	PART OF 18	20
21	PART OF 19	0.40	12	----	B	2P15A	12	0.50	EF-T.1 & EF-T.3	22
23	EF-K.1	0.80	12	2P20A	C	----	12	0.50	PART OF 22	24
25	PART OF 23	0.80	12	----	A	2P15A	12	0.30	EF-D.2	26
27	EF-D.1	0.30	12	2P15A	B	----	12	0.30	PART OF 26	28
29	PART OF 27	0.30	12	----	C	2P15A	12	0.30	EF-D.2	30
31	EF-K.1	0.80	12	2P20A	A	----	12	0.30	PART OF 30	32
33	PART OF 31	0.80	12	----	B	2P20A	12	0.80	EF-K.3	34
35	EF-T.1, EF-T.2, EF-T.3	0.80	12	2P15A	C	----	12	0.80	PART OF 34	36
37	PART OF 35	0.80	12	----	A	1P20A	12	0.50	L - STAIRWELL, ELEC RM, ELEV LOBBY	38
39	EF-D.2	0.40	12	2P15A	B	3P40A	8	3.04	SPF-2	40
41	PART OF 39	0.40	12	----	C	----	8	3.04	PART OF 40	42
43	SPF-1	3.04	8	3P40A	A	----	8	3.04	PART OF 40	44
45	PART OF 43	3.04	8	----	B	1P20A	12	0.20	SMOKE CURTAIN - ROOF ELEV LOBBY	46
47	PART OF 43	3.04	8	----	C	1P20A			S -	48

CONNECTED LOAD: PHASE A: 13.8 KVA | TOTAL LOAD: 41.1 KVA
CONNECTED LOAD: PHASE B: 14.0 KVA | ESTIMATED DEMAND 41.1 KVA
CONNECTED LOAD: PHASE C: 13.4 KVA | TOTAL CALCULATED LOAD: 114.2 A

PANEL 4ELEV

PROJECT: HAWAII CITY PLAZA | VOLTS-PHASE-W: 480/277-3-4 MCB: 200A
LOCATION: ELEVATOR MACHINE ROOM | BUS AMPS: 225A
MOUNTING: SURFACE | SHORT CKT RATING: 10 KAIC
BREAKERS: BOLT-ON

	DESCRIPTION	KVA	WIRE	BKR	PHASE	BKR	WIRE	KVA	DESCRIPTION	
1	PFB			1P	A	3P50A	6	10.70	ELEVATOR #2	2
3	PFB			1P	B	----	6	10.70	PART OF 2	4
5	PFB			1P	C	----	6	10.70	PART OF 2	6
7	ELEVATOR #1	20.00	4	3P70A	A	3P60A	6	13.40	ELEVATOR #3	8
9	PART OF 7	20.00	4	----	B	----	6	13.40	PART OF 8	10
11	PART OF 7	20.00	4	----	C	----	6	13.40	PART OF 8	12
13	PFB			1P	A	1P			PFB	14
15	PFB			1P	B	1P			PFB	16
17	PFB			1P	C	1P			PFB	18
19	PFB			1P	A	1P			PFB	20
21	PFB			1P	B	1P			PFB	22
23	PFB			1P	C	1P			PFB	24

CONNECTED LOAD: PHASE A: 44.1 KVA | TOTAL LOAD: 132.3 KVA
CONNECTED LOAD: PHASE B: 44.1 KVA | ESTIMATED DEMAND 132.3 KVA
CONNECTED LOAD: PHASE C: 44.1 KVA | TOTAL CALCULATED LOAD: 159.1 A

PANEL 2ELEV

PROJECT: HAWAII CITY PLAZA | VOLTS-PHASE-W: 208/120-3-4 MLO
LOCATION: ELEVATOR MACHINE ROOM | BUS AMPS: 600A
MOUNTING: SURFACE | SHORT CKT RATING: 10 KAIC
BREAKERS: BOLT-ON

	DESCRIPTION	KVA	WIRE	BKR	PHASE	BKR	WIRE	KVA	DESCRIPTION	
1	DRY TYPE TRANSFORMER	50.00	600MCM	3P400A	A	1P20A	12	0.50	L - ELEVATOR #1	2
3	PART OF 1	50.00	600MCM	----	B	1P20A	12	1.00	R - ELEVATOR #1	4
5	PART OF 1	50.00	600MCM	----	C	1P20A	12	0.50	L - ELEVATOR #2	6
7	R- ELEV MACH RM	1.00	12	1P20A	A	1P20A	12	1.00	R - ELEVATOR #2	8
9	L - ELEV MACH RM	0.50	12	1P20A	B	1P20A	12	0.50	L - ELEVATON #3	10
11	PFB			1P	C	1P20A	12	1.00	R - ELEVATOR #3	12
13	PFB			1P	A	1P20A			S -	14
15	PFB			1P	B	1P20A			S -	16
17	PFB			1P	C	1P20A			S -	18
19	PFB			1P	A	1P			PFB	20
21	PFB			1P	B	1P			PFB	22
23	PFB			1P	C	1P			PFB	24

CONNECTED LOAD: PHASE A: 52.5 KVA | TOTAL LOAD: 156.0 KVA
CONNECTED LOAD: PHASE B: 52.0 KVA | ESTIMATED DEMAND 156.0 KVA
CONNECTED LOAD: PHASE C: 51.5 KVA | TOTAL CALCULATED LOAD: 433.0 A

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	LAMP/BALLAST/DRIVER	LOCATION	MOUNTNG	MANUFACTURER (OR EQUIVALENT)
A	4" DOWNLIGHT	9W LED, 120V, 3000K	RESIDENTIAL UNITS	RECESSED	PROGRESS P8080 SERIES
B	DECORATIVE PENDANT	(3) 100W INCANDESCENT MED BASE BULBS, 120V, 3000K	RESIDENTIAL UNITS	PENDANT	PROGRESS P5037-09
C	4' FLUORESCENT WRAPAROUND	(2) 4' 32W T8, 120V, 3000K	RESIDENTIAL UNITS	SURFACE	LITHONIA LB-2-32-120RE
D	DOME PENDANT	17W LED, 120V, 3000K	RESIDENTIAL UNITS	PENDANT	PROGRESS P5341-3030K9
E	41" VANITY LUMINAIRE	26W LED, 120V, 3000K	RESIDENTIAL UNITS	WALL	SONNEMAN TUBO SLIM 41
E2	19" VANITY LUMINAIRE	13W LED, 120V, 3000K	RESIDENTIAL UNITS	WALL	SONNEMAN TUBO SLIM 19
F	ROUND SURFACE MOUNT LUMINAIRE	22W CFL G10Q BASE, 120V, 3000K	RESIDENTIAL UNITS	SURFACE	OXYGEN LIGHTING OXY-RHYTHM-CEILING-LIGHT
G1	LED POLE MOUNTED FIXTURE WITH PHOTOCELL, BI LEVEL DIMMING AND MOTION SENSOR. PROVIDE WITH COMPATIBLE 10 FOOT 4" DIA ALUMINUM POLE. TYPE V IES DISTRIBUTION	4500 LUMEN, 70 CRI, 48W, 120V	6TH FLOOR LANDSCAPE AREA	POLE	EATON ARB-B2-LED-D1-T5
G2	SIMILAR TO TYPE G1, WITH TYPE III IES DISTRIBUTION	4500 LUMEN, 70 CRI, 48W, 120V	6TH FLOOR LANDSCAPE AREA	POLE	EATON ARB-B2-LED-D1-T3
G3	LED WALL MOUNTED FIXTURE WITH PHOTOCELL, BI-LEVEL DIMMIMG AND MOTION SENSOR	4500 LUMEN, 70 CRI, 48W, 120V	6TH FLOOR LANDSCAPE AREA	WALL, 10'AFF	EATON ARB-B2-LED-D1-T3
G4	LED WALL PACK. UL LISTED FOR WET LOCATION	5075 LUMENS, 5000K, 36W, 70CRI, 120V	6TH FLOOR LANDSCAPE AREA	COLUMN, 9'AFF	NUVO 65-134
H	WALL SCONCE	12W LED, 120V, 3000K	RESIDENTIAL HALLWAYS	CEILING, SCONCE	ASL LIGHTING FAQ
J	1'x4" LED TROFFER W/ ACRYLIC LENS	3500K, 4000LUMENS, 39W, 120V	GYM, MGR OFFICE	RECESSED	METALUX 14GR LED
J1	SIMILAR TO TYPE J WITH 90 MINUTE EMERGENCY BATTERY PACK AND CHARGER	3500K, 4000LUMENS, 39W, 120V	GYM, MGR OFFICE	RECESSED	METALUX 14GR LED EL14W
K	1'x4' LED FIXTURE. SUITABLE FOR WET LOCATION WITH INTEGRAL MOTION SENSOR	3500K, 4000LUMENS, 38W, 120V	TRASH RM	WALL, 9'AFF	METALUX 4VT2-LD4-4-DR-L835-WL
K1	SIMILAR TO TYPE K WITH 90 MINUTE EMERGENCY BATTERY PACK AND CHARGER	3500K, 4000LUMENS, 38W, 120V	MECH RM	WALL, 9'AFF	METALUX 4VT2-LD4-4-DR-EL10W-L835-WL
L	1'x4' LED WRAPAROUND FIXTURE	3500K, 4000LUMENS, 36W, 120V	SERVICE CORRIDOR/ELEC RM	SURFACE	METALUX WNLED-LD4-40SL-F
L1	SIMILAR TO TYPE L WITH 90 MINUTE EMERGENCY BATTERY AND CHARGER	3500K, 4000LUMENS, 36W, 120V	SERVICE CORRIDOR/ELEC RM	SURFACE	METALUX WNLED-LD4-40SL-F-EL14W
M	PENDANT ART GLASS FIXTURE	LED, 8.5W, 90 CRI, 3000K, 120V	FRONT LOBBY	TRACK PENDANT	HALO LPM9
N	WALL PACK FIXTURE W/ CLEAR LENS	3000 LUMENS, 4000K, 80CRI, TYPE III DISTRIBUTION, 29W, 120V	PARKING LOT WALKWAY	WALL, 9'AFF	KIM WD2S - D-24L - 30-4K8-3
O	RECESSED LOW LEVEL FLOOD LIGHT	(2) 10.8W LED, 120V, 3000K	RAMP	WALL	ELP CP LED 222W1CP-(*K)
P	PARKING GARAGE LED WITH MOTION SENSORS	32 LED, 700MA, 4000K, 120V, 71W	PARKING	GARAGE	VISIONAIRE PGA 1 T5W 32LC 7 4KL
S	2' LED STRIP WITH INTEGRAL OCCUPANCY SENSOR AND 90 MINUTE EMERGENCY BATTERY PACK AND CHARGER	23W LED, 2600 LUMENS, 120V, 3500K	STAIRWELL	LED	HE WILLIAMS SLF SERIES
T	1'x4' LED SHOP LIGHT	3500K, 2700LUMENS, 25W, 120V	COMMERCIAL SPACES		COLUMBIA LRO
U	WALL PACK WITH MOTION AND DAYLIGHT SENSORS	LED, 1600LUMENS, 5000K, 19W, 73CRI, 120V	DOG PARK	WALL, 9'AFF	EATON ALL PRO
V	6" DOWNLIGHT SUITABLE FOR WET LOCATION	1100LUMEN, 3500K, 90 CRI, 12W, 120V	BLDG PERIMETER	RECESSED	PRESCOLITE LBP6-11L-35K
W	EMERGENCY WALL PACK	LED, 120V	COMMON AREAS	WALL	DUAL LITE PG SERIES
X	LED EXIT SIGN	LED, 120V, WHITE WITH RED LETTERING	EGRESS	WALL OR CEILING, SEE DWGS FOR LOCATIONS	DUAL LITE LX SERIES
X1	SIMILAR TO X. SUITABLE FOR WET LOCATION	LED, 120V, WHITE WITH RED LETTERING	EGRESS	WALL OR CEILING, SEE DWGS FOR LOCATIONS	DUAL LITE LX SERIES
Y	JELLY JAR LED LIGHT WITH WIRE GUARD. SUITABLE FOR WET LOCATION	705 LUMEN, 70 CRI, 5000K, 120V, 12W	ELEVATOR PIT	WALL	MAXLITE JJ12A150GWO
POOL LIGHTS	LED SUBMERSIBLE FIXTURE. UL LISTED FOR USE	100W LED, 120V	POOL AND SPA	SUBMERSED	PENTAIR INTELLIBRITE 5G

NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND DETAILS TO DETERMINE NECESSARY FIXTURE MOUNTING ACCESSORIES AND FOR APPLICABLE BUILDING CODES FOR REQUIRED FIXTURE SUPPORTS AND FOR MAINTAINING CEILING FIRE RATINGS.
2. MANUFACTURERS LISTED

FSC ARCHITECTS

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

DEREK H. FUJIKAMI
LICENSED PROFESSIONAL ENGINEER
No. 7246-E
HAWAII, U.S.A.

NOTE: CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AT JOB BEFORE PROCEEDING WITH WORK.

DEVELOPER:
CALIFORNIA INVESTMENT REGIONAL CENTER, LLC

PROJECT OWNER:
HAWAII CITY PLAZA, LP

Hawaii City Plaza
Honolulu, Hawaii
710 Sheridan Street
TMK 2-3-014: Parcels 002, 004, & 011

PERMIT SET

DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
HOUSE PANEL AND LUMINAIRE SCHEDULES

SHEET NO.
E6.101

PANEL A1

PROJECT: HAWAII CITY PLAZA | VOLTS-PHASE-W: 120/208-1-3 MLO
LOCATION: TYPICAL UNIT A1 | BUS AMPS: 125
MOUNTING: RECESSED | SHORT CKT RATING: 10 KAIC
MANUFACTURER: | BREAKERS: PLUG-IN

	DESCRIPTION	KVA	WIRE	BKR	PHASE	BKR	WIRE	KVA	DESCRIPTION	
1	R - REFRIG	1.20	12	1P20A	L1	1P20A	12	0.20	GAS RANGE	2
3	R - KITCHEN COUNTER	1.00	12	1P20A	L2	1P20A	12	1.00	R - LAUNDRY	4
5	R - KITCHEN ISLAND	1.00	12	1P20A	L1	2P30A	10	2.00	WASHER/DRYER	6
7	DISHWASHER	1.20	12	1P20A	L2	----	10	2.00	PART OF 6	8
9	R - GARBAGE DISPOSAL	0.50	12	1P20A	L1	1P20A	12	1.00	R - BATHROOM, TOILET	10
11	RANGE HOOD	0.50	12	1P20A	L2	1P20A	12	0.50	* R - BEDROOM	12
13	* R - LIVING ROOM	0.50	12	1P20A	L1	2P25A	10	1.72	ACCU-A1	14
15	* R - LIVING ROOM (TELEVISION SIDE), HALL	0.50	12	1P20A	L2	----	10	1.72	PART OF 14	16
17	L - LIVING ROOM & KITCHEN	0.50	12	1P20A	L1	2P15A	12	0.15	FCU-A1.1, A1.2	18
19	L - BATHROOM & BEDROOM	0.50	12	1P20A	L2	----	12	0.15	PART OF 18	20
21	SMOKE ALARMS	0.12	12	1P20A	L1	1P20A	12	0.50	R - CURTAIN	22
23	R - BALCONY	0.50	12	1P20A	L2	1P20A			S -	24
25	PFB			1P	L1	1P20A			S -	26
27	PFB			1P	L2	1P			PFB	28
29	PFB			1P	L1	1P			PFB	30

CONNECTED LOAD: PHASE A: 9.4 KVA | TOTAL LOAD: 18.9 KVA
CONNECTED LOAD: PHASE B: 9.6 KVA | ESTIMATED DEMAND 17.0 KVA
TOTAL CALCULATED LOAD: 81.7 A

* DENOTES AFCI CIRCUIT BREAKER

PANEL A2

PROJECT: HAWAII CITY PLAZA | VOLTS-PHASE-W: 120/208-1-3 MLO
LOCATION: TYPICAL UNIT A2 | BUS AMPS: 125
MOUNTING: RECESSED | SHORT CKT RATING: 10 KAIC
MANUFACTURER: | BREAKERS: PLUG-IN

	DESCRIPTION	KVA	WIRE	BKR	PHASE	BKR	WIRE	KVA	DESCRIPTION	
1	R - REFRIG	1.20	12	1P20A	L1	1P20A	12	0.20	GAS RANGE	2
3	R - KITCHEN COUNTER	1.00	12	1P20A	L2	1P20A	12	1.00	R - LAUNDRY	4
5	R - KITCHEN ISLAND	1.00	12	1P20A	L1	2P30A	10	2.00	WASHER/DRYER	6
7	DISHWASHER	1.20	12	1P20A	L2	----	10	2.00	PART OF 6	8
9	R - GARBAGE DISPOSAL	0.50	12	1P20A	L1	1P20A	12	1.00	R - BATHROOM, TOILET	10
11	RANGE HOOD	0.50	12	1P20A	L2	1P20A	12	1.00	* R - BEDROOM	12
13	* R - LIVING ROOM	0.50	12	1P20A	L1	2P25A	10	1.72	ACCU-A2	14
15	* R - LIVING ROOM (TELEVISION/WINDOW SIDE)	0.50	12	1P20A	L2	----	10	1.72	PART OF 14	16
17	L - LIVING ROOM & KITCHEN	0.50	12	1P20A	L1	2P15A	12	0.15	FCU-A2.1, A2.2	18
19	L - BATHROOMS & BEDROOMS	0.50	12	1P20A	L2	----	12	0.15	PART OF 18	20
21	SMOKE ALARMS	0.12	12	1P20A	L1	1P20A	12	0.50	R - CURTAIN	22
23	R - BALCONY	0.50	12	1P20A	L2	1P20A			S -	24
25	PFB			1P	L1	1P20A			S -	26
27	PFB			1P	L2	1P			PFB	28
29	PFB			1P	L1	1P			PFB	30

CONNECTED LOAD: PHASE A: 9.4 KVA | TOTAL LOAD: 19.4 KVA
CONNECTED LOAD: PHASE B: 10.1 KVA | ESTIMATED DEMAND 17.5 KVA
TOTAL CALCULATED LOAD: 84.1 A

* DENOTES AFCI CIRCUIT BREAKER

PANEL A3

PROJECT: HAWAII CITY PLAZA | VOLTS-PHASE-W: 120/208-1-3 MLO
LOCATION: TYPICAL UNIT A3 | BUS AMPS: 125
MOUNTING: RECESSED | SHORT CKT RATING: 10 KAIC
MANUFACTURER: | BREAKERS: PLUG-IN

	DESCRIPTION	KVA	WIRE	BKR	PHASE	BKR	WIRE	KVA	DESCRIPTION	
1	R - REFRIG	1.20	12	1P20A	L1	1P20A	12	0.20	GAS RANGE	2
3	R - KITCHEN COUNTER	1.00	12	1P20A	L2	1P20A	12	1.00	R - LAUNDRY	4
5	R - KITCHEN ISLAND	1.00	12	1P20A	L1	2P30A	10	2.00	WASHER/DRYER	6
7	DISHWASHER	1.20	12	1P20A	L2	----	10	2.00	PART OF 6	8
9	R - GARBAGE DISPOSAL	0.50	12	1P20A	L1	1P20A	12	1.00	R - BATHROOM, TOILET	10
11	RANGE HOOD	0.50	12	1P20A	L2	1P20A	12	1.00	* R - BEDROOM	12
13	* R - LIVING ROOM	0.50	12	1P20A	L1	2P25A	10	1.72	ACCU-A3	14
15	* R - LIVING ROOM (TELEVISION/WINDOW SIDE)	0.50	12	1P20A	L2	----	10	1.72	PART OF 14	16
17	L - LIVING ROOM & KITCHEN	0.50	12	1P20A	L1	2P15A	12	0.15	FCU-A3.1, A3.2	18
19	L - BATHROOMS & BEDROOMS	0.50	12	1P20A	L2	----	12	0.15	PART OF 18	20
21	SMOKE ALARMS	0.12	12	1P20A	L1	1P20A	12	0.50	R - CURTAIN	22
23	R - BALCONY	0.50	12	1P20A	L2	1P20A			S -	24
25	PFB			1P	L1	1P20A			S -	26
27	PFB			1P	L2	1P			PFB	28
29	PFB			1P	L1	1P			PFB	30

CONNECTED LOAD: PHASE A: 9.4 KVA | TOTAL LOAD: 19.4 KVA
CONNECTED LOAD: PHASE B: 10.1 KVA | ESTIMATED DEMAND 17.5 KVA
TOTAL CALCULATED LOAD: 84.1 A

* DENOTES AFCI CIRCUIT BREAKER

PANEL B

PROJECT: HAWAII CITY PLAZA | VOLTS-PHASE-W: 120/208-1-3 MLO
LOCATION: TYPICAL UNIT B | BUS AMPS: 150A
MOUNTING: RECESSED | SHORT CKT RATING: 10 KAIC
MANUFACTURER: | BREAKERS: PLUG-IN

	DESCRIPTION	KVA	WIRE	BKR	PHASE	BKR	WIRE	KVA	DESCRIPTION	
1	R - REFRIG	1.20	12	1P20A	L1	1P20A	12	0.20	GAS RANGE	2
3	R - KITCHEN COUNTER	1.20	12	1P20A	L2	1P20A	12	1.00	R - LAUNDRY	4
5	R - KITCHEN ISLAND	1.20	12	1P20A	L1	2P30A	10	2.00	WASHER/DRYER	6
7	DISHWASHER	1.20	12	1P20A	L2	----	10	2.00	PART OF 6	8
9	R - GARBAGE DISPOSAL	1.20	12	1P20A	L1	1P20A	12	1.00	R - MASTER BATH, TOILET	10
11	RANGE HOOD	1.00	12	1P20A	L2	1P20A	12	1.00	R - BATH, TOILET	12
13	* R - LIVING ROOM	0.50	12	1P20A	L1	1P20A	12	0.50	* R - MASTER BEDROOM	14
15	* R - LIVING ROOM (TELEVISION SIDE), HALL	0.50	12	1P20A	L2	1P20A	12	0.50	* R - BEDROOM	16
17	L - LIVING ROOM & KITCHEN	0.50	12	1P20A	L1	2P15A	12	0.24	FCU-B.1, B.2, & B.3	18
19	L - BATHROOMS & BEDROOMS	0.50	12	1P20A	L2	----	10	1.72	PART OF 18	20
21	SMOKE ALARMS	0.18	12	1P20A	L1	2P15A	12	0.24	FCU-B.1, B.2, & B.3	22
23	R - BALCONY	0.50	12	1P20A	L2	----	12	0.24	PART OF 22	24
25	PFB			1P	L1	1P20A	12	0.50	R - CURTAIN	26
27	PFB			1P	L2	1P20A			S -	28
29	PFB			1P	L1	1P20A			S -	30

CONNECTED LOAD: PHASE A: 10.9 KVA | TOTAL LOAD: 22.3 KVA
CONNECTED LOAD: PHASE B: 11.4 KVA | ESTIMATED DEMAND 19.8 KVA
TOTAL CALCULATED LOAD: 95.1 A

* DENOTES AFCI CIRCUIT BREAKER

PANEL C

PROJECT: HAWAII CITY PLAZA | VOLTS-PHASE-W: 120/208-1-3 MLO
LOCATION: TYPICAL UNIT C | BUS AMPS: 150A
MOUNTING: RECESSED | SHORT CKT RATING: 10 KAIC
MANUFACTURER: | BREAKERS: PLUG-IN

	DESCRIPTION	KVA	WIRE	BKR	PHASE	BKR	WIRE	KVA	DESCRIPTION	
1	R - REFRIG	1.20	12	1P20A	L1	1P20A	12	0.20	GAS RANGE	2
3	R - KITCHEN COUNTER (RIGHT SIDE)	1.20	12	1P20A	L2	1P20A	12	1.00	R - LAUNDRY	4
5	* R - ENTRY, HALL	0.50	12	1P20A	L1	2P30A	10	2.00	WASHER/DRYER	6
7	DISHWASHER	1.20	12	1P20A	L2	----	10	2.00	PART OF 6	8
9	R - GARBAGE DISPOSAL	0.50	12	1P20A	L1	1P20A	12	1.00	R - BATHROOM, TOILET	10
11	R - KITCHEN COUNTER AND RANGE HOOD	1.00	12	1P20A	L2	1P20A	12	0.50	* R - MASTER BEDROOM	12
13	* R - LIVING ROOM	0.50	12	1P20A	L1	1P20A	12	0.50	* R - BEDROOM	14
15	* R - LIVING ROOM, DINING	0.50	12	1P20A	L2	1P20A	12	1.00	R - MASTER BATHROOM, TOILET	16
17	L - LIVING ROOM & KITCHEN	0.50	12	1P20A	L1	2P25A	10	1.72	ACCU-C	18
19	L - BATHROOMS & BEDROOMS	0.50	12	1P20A	L2	----	10	1.72	PART OF 18	20
21	SMOKE ALARMS	0.12	12	1P20A	L1	2P15A	12	0.24	FCU-C.1, C.2, & C.3	22
23	R - BALCONY	0.50	12	1P20A	L2	----	12	0.24	PART OF 22	24
25	PFB			1P	L1	1P20A	12	0.50	R - CURTAIN	26
27	PFB			1P	L2	1P20A			S -	28
29	PFB			1P	L1	1P20A			S -	30

CONNECTED LOAD: PHASE A: 9.5 KVA | TOTAL LOAD: 20.8 KVA
CONNECTED LOAD: PHASE B: 11.4 KVA | ESTIMATED DEMAND 19.0 KVA
TOTAL CALCULATED LOAD: 91.2 A

* DENOTES AFCI CIRCUIT BREAKER

PANEL D

PROJECT: HAWAII CITY PLAZA | VOLTS-PHASE-W: 120/208-1-3 MLO
LOCATION: TYPICAL UNIT D | BUS AMPS: 125A
MOUNTING: RECESSED | SHORT CKT RATING: 10 KAIC
MANUFACTURER: | BREAKERS: PLUG-IN

	DESCRIPTION	KVA	WIRE	BKR	PHASE	BKR	WIRE	KVA	DESCRIPTION	
1	R - REFRIG	1.20	12	1P20A	L1	1P20A	12	0.20	GAS RANGE	2
3	R - KITCHEN COUNTER	1.00	12	1P20A	L2	1P20A	12	1.00	R - LAUNDRY	4
5	* R - ENTRY, DINING	0.50	12	1P20A	L1	2P30A	10	2.00	WASHER/DRYER	6
7	DISHWASHER	1.20	12	1P20A	L2	----	10	2.00	PART OF 6	8
9	R - GARBAGE DISPOSAL	0.50	12	1P20A	L1	1P20A	12	0.50	R - MASTER BATHROOM, TOILET	10
11	RANGE HOOD	0.50	12	1P20A	L2	1P20A	12	0.50	* R - MASTER BEDROOM	12
13	* R - LIVING ROOM	1.00	12	1P20A	L1	1P20A	12	0.50	R - BATHROOM, TOILET	14
15	L - HALLWAY, BEDROOM, BATHROOM	0.50	12	1P20A	L2	1P20A	12	0.50	* R - BEDROOM	16
17	L - LIVING RM, MAST BEDROOM & BATHRO	0.50	12	1P20A	L1	2P25A	10	1.72	ACCU-D	18
19	SMOKE ALARMS	0.20	12	1P20A	L2	----	10	1.72	PART OF 18	20
21	R - KITCHEN COUNTER	1.00	12	1P20A	L1	2P15A	12	0.23	FCU-D.1, D.2, & D.3	22
23	R - BALCONY	0.25	12	1P20A	L2	----	12	0.23	PART OF 22	24
25	PFB			1P	L1	1P20A	12	0.50	R - CURTAIN	26
27	PFB			1P	L2	1P20A			S -	28
29	PFB			1P	L1	1P20A			S -	30

CONNECTED LOAD: PHASE A: 10.3 KVA | TOTAL LOAD: 19.9 KVA
CONNECTED LOAD: PHASE B: 9.6 KVA | ESTIMATED DEMAND 17.8 KVA
TOTAL CALCULATED LOAD: 85.6 A

* DENOTES AFCI CIRCUIT BREAKERS

PANEL E

PROJECT: HAWAII CITY PLAZA | VOLTS-PHASE-W: 120/208-1-3 MLO
LOCATION: TYPICAL UNIT E | BUS AMPS: 125A
MOUNTING: RECESSED | SHORT CKT RATING: 10 KAIC
MANUFACTURER: | BREAKERS: PLUG-IN

	DESCRIPTION	KVA	WIRE	BKR	PHASE	BKR	WIRE	KVA	DESCRIPTION	
1	R - REFRIG	1.20	12	1P20A	L1	1P20A	12	0.20	GAS RANGE	2
3	R - KITCHEN COUNTER	1.00	12	1P20A	L2	1P20A	12	1.00	R - LAUNDRY	4
5	* R - ENTRY, DINING	0.50	12	1P20A	L1	2P30A	10	2.00	WASHER/DRYER	6
7	DISHWASHER	1.20	12	1P20A	L2	----	10	2.00	PART OF 6	8
9	R - GARBAGE DISPOSAL	0.50	12	1P20A	L1	1P20A	12	1.00	* R - MASTER BATHROOM	10
11	RANGE HOOD	0.50	12	1P20A	L2	1P20A	12	0.50	* R - MASTER BEDROOM	12
13	* R - LIVING ROOM	1.00	12	1P20A	L1	1P20A	12	0.50	R - BATHROOM, TOILET	14
15	L - LIVING ROOM, DM & KITCHEN	0.50	12	1P20A	L2	1P20A	12	0.50	* R - BEDROOM	16
17	L - BATHROOMS & BEDROOMS	0.50	12	1P20A	L1	2P25A	10	1.72	ACCU-E	18
19	SMOKE ALARMS	0.18	12	1P20A	L2	----	10	1.72	PART OF 18	20
21	R - KITCHEN COUNTER	1.00	12	1P20A	L1	2P15A	12	0.23	FCU-E.1, E.2, & E.3	22
23	R - BALCONY	0.50	12	1P20A	L2	----	12	0.23	PART OF 22	24
25	PFB			1P	L1	1P20A	12	0.50	R - CURTAIN	26
27	PFB			1P	L2	1P20A			S -	28
29	PFB			1P	L1	1P20A			S -	30

CONNECTED LOAD: PHASE A: 10.8 KVA | TOTAL LOAD: 20.7 KVA
CONNECTED LOAD: PHASE B: 9.8 KVA | ESTIMATED DEMAND 18.7 KVA
TOTAL CALCULATED LOAD: 90.0 A

* DENOTES AFCI CIRCUIT BREAKERS

PANEL G

PROJECT: HAWAII CITY PLAZA | VOLTS-PHASE-W: 120/208-1-3 MLO
LOCATION: TYPICAL UNIT G | BUS AMPS: 125
MOUNTING: RECESSED | SHORT CKT RATING: 10 KAIC
MANUFACTURER: | BREAKERS: PLUG-IN

	DESCRIPTION	KVA	WIRE	BKR	PHASE	BKR	WIRE	KVA	DESCRIPTION	
1	R - REFRIG	1.20	12	1P20A	A	1P20A	12	0.20	GAS RANGE	2
3	R - KITCHEN COUNTER (RIGHT SIDE)	1.00	12	1P20A	B	1P20A	12	1.00	R - LAUNDRY	4
5	* R - ENTRY, DINING, HALL	0.50	12	1P20A	A	2P30A	10	2.00	WASHER/DRYER	6
7	DISHWASHER	1.20	12	1P20A	B	----	10	2.00	PART OF 6	8
9	R - GARBAGE DISPOSAL	0.50	12	1P20A	A	1P20A	12	1.00	R - BATHROOM, TOILET	10
11	RANGE HOOD	0.50	12	1P20A	B	1P20A	12	0.50	* R - BEDROOM	12
13	* R - LIVING ROOM	0.50	12	1P20A	A	2P25A	10	1.72	ACCU-G	14
15	* R - LIVING ROOM (TELEVISION/WINDOW SIDE)	0.50	12	1P20A	B	----	10	1.72	PART OF 14	16
17	L - LIVING ROOM & KITCHEN	0.50	12	1P20A	A	2P15A	12	0.15	FCU-G.1 & G.2	18
19	L - BATHROOMS & BEDROOMS	0.50	12	1P20A	B	----	12	0.15	PART OF 18	20
21	SMOKE ALARMS	0.18	12	1P20A	A	1P20A			S -	22
23	R - BALCONY	0.50	12	1P20A	B	1P20A			S -	24
25	PFB			1P	A	1P			PFB	26
27	PFB			1P	B	1P			PFB	28
29	PFB			1P	A	1P			PFB	30

CONNECTED LOAD: PHASE A: 8.4 KVA | TOTAL LOAD: 18.0 KVA
CONNECTED LOAD: PHASE B: 9.6 KVA | ESTIMATED DEMAND 16.4 KVA
TOTAL CALCULATED LOAD: 78.8 A

* DENOTES AFCI CIRCUIT BREAKER

PANEL H

PROJECT: HAWAII CITY PLAZA | VOLTS-PHASE-W: 120/208-1-3 MLO
LOCATION: TYPICAL UNIT H | BUS AMPS: 150A
MOUNTING: RECESSED | SHORT CKT RATING: 10 KAIC
MANUFACTURER: | BREAKERS: PLUG-IN

	DESCRIPTION	KVA	WIRE	BKR	PHASE	BKR	WIRE	KVA	DESCRIPTION	
1	R - REFRIG	1.20	12	1P20A	L1	1P20A	12	0.20	GAS RANGE	2
3	R - KITCHEN COUNTER	1.00	12	1P20A	L2	1P20A	12	1.00	R - LAUNDRY	4
5	* R - ENTRY, HALL	1.20	12	1P20A	L1	2P30A	10	2.00	WASHER/DRYER	6
7	DISHWASHER	1.20	12	1P20A	L2	----	10	2.00	PART OF 6	8
9	R - GARBAGE DISPOSAL	0.50	12	1P20A	L1	1P20A	12	1.00	R - BATHROOM, TOILET	10
11	* R - LIVING ROOM	0.50	12	1P20A	L2	1P20A	12	0.50	* R - BEDROOM 1	12
13	* R - LIVING ROOM (TELEVISION SIDE), HAL	1.00	12	1P20A	L1	1P20A	12	0.50	* R - BEDROOM 2	14
15	L - LIVING ROOM & KITCHEN	0.50	12	1P20A	L2	2P35A	10	3.03	ACCU-H	16
17	L - BATHROOM, BEDROOM, HALL	0.50	12	1P20A	L1	----	10	3.03	PART OF 16	18
19	RANGE HOOD	0.50	12	1P20A	L2	2P15A	12	0.33	FCU-H.1, H.2 & H.3	20
21	SMOKE ALARMS	0.18	12	1P20A	L1	----	12	0.33	PART OF 20	22
23	R - BALCONY	0.50	12	1P20A	L2	1P20A	12	0.50	R - CURTAIN	24
25	R - KITCHEN COUNTER	1.00	12	1P20A	L1	1P20A			S -	26
27	PFB			1P	L2	1P20A			S -	28
29	PFB			1P	L1	1P			PFB	30

CONNECTED LOAD: PHASE A: 12.6 KVA | TOTAL LOAD: 24.2 KVA
CONNECTED LOAD: PHASE B: 11.6 KVA | ESTIMATED DEMAND 21.8 KVA
TOTAL CALCULATED LOAD: 104.9 A

* DENOTES AFCI CIRCUIT BREAKERS

FSC ARCHITECTS

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.

ROBERT H. FUJIYAMA
LICENSED PROFESSIONAL ENGINEER
No. 7246-E

NOTE: CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AT JOB BEFORE PROCEEDING WITH WORK.

DEVELOPER:
CALIFORNIA INVESTMENT REGIONAL CENTER, LLC

PROJECT OWNER:
HAWAII CITY PLAZA, LP

Hawaii City Plaza
Honolulu, Hawaii

710 Sheridan Street
TMK 2-3-014: Parcels 002, 004, & 011

PERMIT SET

DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
UNIT PANEL SCHEDULES

SHEET NO.
E6.102

FIRE ALARM LEGEND

SYMBOLS	ABBR.	DESCRIPTION
FACP	FACP	FIRE ALARM CONTROL PANEL, +72" TO TOP OF CABINET
FAA	FAA	FIRE ALARM REMOTE LCD ANNUNCIATOR, +72" TO TOP OF ENCLOSURE
PACP	PACP	PREACTION SYSTEM CONTROL PANEL, +72" TO TOP OF CABINET
P		SMOKE DETECTOR, ADDRESSABLE, PHOTOELECTRIC
P		MANUAL PULL STATION
FS		WATERFLOW SWITCH (FIRE SPRINKLER SYSTEM)
TS		TAMPER SWITCH (FIRE SPRINKLER SYSTEM)
		COMBINATION AUDIBLE (SPEAKER)/VISIBLE NOTIFICATION APPLIANCE, WALL MOUNTED
		VISIBLE NOTIFICATION APPLIANCE, WALL MOUNTED
S		COMBINATION AUDIBLE(SPEAKER)/VISIBLE NOTIFICATION APPLIANCE, CEILING MOUNTED
AIM		ADDRESSABLE INPUT MODULE
AOM		ADDRESSABLE OUTPUT MODULE
SV		SOLENOID VALVE
F		AUDIBLE (HORN) NOTIFICATION APPLIANCE, WALL MOUNTED
	WP	WEATHERPROOF
		HEAT DETECTOR, FIXED TEMPERATURE
		DUCT SMOKE DETECTOR, ADDRESSABLE, PHOTOELECTRIC

HAWAII CITY PLAZA - FIRE ALARM SEQUENCE OF OPERATIONS

	SYSTEM OUTPUT	FIRE ALARM CONTROL PANEL AND REMOTE ANNUNCIATOR ANNUNCIATION							FIRE SAFETY CONTROL			NOTIFICATION				
		ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE TROUBLE SIGNAL	ACTUATE APPROPRIATE LOCATION INDICATOR	SHUT DOWN ASSOCIATED PACU	CLOSE SMOKE DAMPER ON AFFECTED PACU	DISCONNECT FUEL SOURCE FROM COOKING EQUIPMENT (ACTUATE BREAKER SHUNT TRIP AND CLOSE GAS VALVE)	ACTIVATE TENANT'S FIRE ALARM SYSTEM VISUAL AND AUDIBLE ALARMS	DISPLAY CHANGE OF STATUS	TRANSMIT ALARM SIGNAL TO LANDLORD'S FACP	TRANSMIT SUPERVISORY SIGNAL TO LANDLORD'S FACP	TRANSMIT TROUBLE SIGNAL TO LANDLORD'S FACP
	SYSTEM INPUT	A	B	C	D	E	F	G	H	I	N	P	Q	R	S	T
1	ACTIVATION OF SMOKE DETECTOR	X	X					X				X	X	X		
2	ACTIVATION OF MANUAL PULL STATION	X	X					X				X	X	X		
3	ACTIVATION OF A DUCT SMOKE DETECTOR			X	X			X	X	X			X		X	
4	ACTIVATION OF F.S. FLOW SWITCH	X	X					X				X	X	X		
5	ACTIVATION OF F.S. TAMPER SWITCH			X	X			X					X		X	
8	FIRE ALARM AC POWER FAILURE					X	X						X			X
9	FIRE ALARM SYSTEM LOW BATTERY					X	X						X			X
10	OPEN CIRCUIT OR GROUND FAULT					X	X						X			X
11	DEVICE NO RESPONSE					X	X						X			X

FIRE ALARM NOTES

A. THE FIRE ALARM INSTALLATION AND MAINTENANCE SHALL BE IN ACCORDANCE WITH THE BUILDING AND FIRE CODES OF THE CITY AND COUNTY OF HONOLULU (INCLUDING, BUT NOT LIMITED TO, THE INTERNATIONAL BUILDING CODE (2006), FIRE CODE (2012 NFPA 1), NATIONAL ELECTRIC CODE (NEC 2008 NFPA 70), AND NATIONAL FIRE ALARM AND SIGNALING CODE (2010 NFPA 72) AS AMENDED).

B. THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN IN SERVICE UNTIL THE NEW SYSTEM HAS BEEN APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ).

C. COORDINATE FIRE ALARM WORK WITH VENDOR. OBTAIN VENDOR'S AUTHORIZED REPRESENTATIVE TO PROVIDE ON-SITE SOFTWARE MODIFICATIONS AND SUPERVISION OF INSTALLATION TO COMPLETE FIRE ALARM SYSTEM INSTALLATION, PERFORM A COMPLETE FUNCTIONAL TEST OF THE SYSTEM WITH LOCAL AUTHORITIES HAVING JURISDICTION, AND SUBMIT A WRITTEN REPORT TO THE CONTRACTOR ATTESTING TO THE PROPER OPERATION OF THE COMPLETED SYSTEM.

D. FIRE ALARM RACEWAYS SHALL BE 3/4 INCH MINIMUM. CONDUCTORS SHALL COMPLY WITH NEC ARTICLE 760, AND FIRE ALARM WIRING TYPES AND SIZES SHALL BE AS FOLLOWS:
   (1) SIGNALING LINE CIRCUIT (SLC) AND/OR INITIATING DEVICE CIRCUIT (IDC): TWISTED SOLID PAIR, AWG #16 MINIMUM
   (2) NOTIFICATION APPLIANCE CIRCUIT (NAC): SINGLE SOLID PAIR, AWG #14 MINIMUM
   (3) SPEAKER CIRCUIT: SHIELDED TWISTED SOLID PAIR, AWG #16 MINIMUM
   (4) AC POWER CIRCUIT: SINGLE SOLID PAIR, AWG #12

E. 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 THE DATE OF COMPLETION OF THE WORK COVERED THEREIN, AND ONE SET OF APPROVED PLANS SHALL BE RETURNED TO THE APPLICANT, AND SAID SET SHALL BE KEPT ON THE SITE OF THE BUILDING OR WORK AT ALL TIMES DURING WHICH THE WORK AUTHORIZED THEREBY IS IN PROGRESS. (SEC. 18-5.2 R.O. 1978 (1983 ED.); AM. ORD. 93-59)

F. WHERE INSTALLATION DEVIATES FROM APPROVED PLANS, REVISED DRAWINGS ARE TO BE RESUBMITTED FOR REVIEW AND APPROVAL BY THE FIRE DEPARTMENT.

G. UNLESS OTHERWISE NOTED, SECTIONS NOTED BELOW ARE FROM 2012 NFPA 1.

H. AUTHORITY HAVING JURISDICTION (AHJ) APPROVAL
   13.1.1 THE AHJ SHALL HAVE THE AUTHORITY TO REQUIRE THAT CONSTRUCTION DOCUMENTS FOR ALL FIRE PROTECTION SYSTEMS BE SUBMITTED FOR REVIEW AND APPROVAL AND A PERMIT BE ISSUED PRIOR TO THE INSTALLATION, REHABILITATION, OR MODIFICATION. FURTHER, THE AHJ SHALL HAVE THE AUTHORITY TO REQUIRE THAT FULL ACCEPTANCE TESTS OF THE SYSTEMS BE PERFORMED IN THE AHJ'S PRESENCE PRIOR TO FINAL SYSTEM CERTIFICATION. FIRE ALARM SYSTEMS, FIRE HYDRANT SYSTEMS, FIRE-EXTINGUISHING SYSTEMS, STANDPIPES, AND OTHER FIRE-PROTECTION SYSTEMS AND APPURTENANCES REQUIRED BY THIS CODE SHALL BE APPROVED BY THE AHJ AS TO INSTALLATION AND LOCATION AND SHALL BE SUBJECT TO ACCEPTANCE TESTS REQUIRED BY THE APPROPRIATE COUNTY AGENCY. (NFPA 1 CHAPTER 13, AS AMENDED)

I. FIRE PROTECTION SYSTEMS
   13.1.9 WHEN A FIRE PROTECTION SYSTEM IS OUT OF SERVICE FOR MORE THAN 4 HOURS IN A 24-HOUR PERIOD, THE AHJ SHALL BE PERMITTED TO REQUIRE THE BUILDING TO BE EVACUATED OR AN APPROVED FIRE WATCH TO BE PROVIDED FOR ALL PORTIONS LEFT UNPROTECTED BY THE FIRE PROTECTION SYSTEM SHUTDOWN UNTIL THE FIRE PROTECTION SYSTEM HAS BEEN RETURNED TO SERVICE.

J. SERVICE PERSONNEL QUALIFICATIONS AND EXPERIENCE
   13.4.1.6.4.1 SERVICE PERSONNEL SHALL BE QUALIFIED AND EXPERIENCED IN THE INSPECTION, TESTING, AND MAINTENANCE OF FIRE PROTECTION SYSTEMS. QUALIFIED PERSONNEL SHALL INCLUDE, BUT NOT BE LIMITED TO, ONE OR MORE OF THE FOLLOWING:
   (1) PERSONNEL WHO ARE FACTORY TRAINED AND CERTIFIED FOR FIRE PUMP SYSTEM DESIGN OF THE SPECIFIC TYPE AND BRAND OF SYSTEM BEING DESIGNED
   (2) PERSONNEL WHO ARE CERTIFIED BY A NATIONALLY RECOGNIZED CERTIFICATION ORGANIZATION ACCEPTABLE TO THE AHJ
   (3) PERSONNEL WHO ARE REGISTERED, LICENSED, OR CERTIFIED BY A STATE OR LOCAL AUTHORITY
   (4) PERSONNEL WHO ARE EMPLOYED AND QUALIFIED BY AN ORGANIZATION LISTED BY NATIONALLY RECOGNIZED TESTING LABORATORY FOR THE SERVICING OF FIRE PROTECTION SYSTEMS [20:4.3.4.1]

K. 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 AND SIGNALING CODE, AND SECTION 13.7.
   13.7.1.3 ALL 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. [72:14.5.4]
   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 COMMUNICATIONS 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]
   13.7.1.4.2 ALL SYSTEMS AND COMPONENTS SHALL BE APPROVED FOR THE PURPOSE FOR WHICH THEY ARE INSTALLED. [101:9.6.1.4]
   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]
   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 ALARM SYSTEM HAS BEEN RETURNED TO SERVICE. [101:9.6.1.6]
   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 OUTPUTS TO CONTROL BUILDING EQUIPMENT TO ENHANCE PROTECTION OF LIFE. [101:9.6.1.7]

L. PROTECTION OF FIRE ALARM SYSTEMS
   13.7.1.4.6.1 IN AREAS THAT ARE NOT CONTINUOUSLY OCCUPIED, AND UNLESS OTHERWISE PERMITTED BY 13.7.1.4.6.1.1 OR 13.7.1.4.6.1.2, AUTOMATIC SMOKE DETECTION SHALL BE INSTALLED TO PROVIDE NOTIFICATION OF FIRE AT THE FOLLOWING LOCATIONS:
   (1) EACH FIRE ALARM CONTROL UNIT
   (2) NOTIFICATION APPLIANCE CIRCUIT POWER EXTENDERS
   (3) SUPERVISING STATION TRANSMITTING EQUIPMENT [101:9.6.1.8.1]

M. MANUAL FIRE ALARM BOXES
   13.7.1.4.8.3 A MANUAL FIRE ALARM BOX SHALL BE PROVIDED AS FOLLOWS, UNLESS MODIFIED BY ANOTHER SECTION OF THIS CODE.
   (1) FOR NEW ALARM SYSTEM INSTALLATIONS, MANUAL FIRE ALARM BOXES SHALL BE LOCATED WITHIN 5 FT (1.5 M) OF THE EXIT DOORWAYS.
   (2) FOR EXISTING ALARM SYSTEM INSTALLATIONS, THE MANUAL FIRE ALARM BOX EITHER SHALL BE PROVIDED IN THE NATURAL EXIT ACCESS PATH NEAR EACH REQUIRED EXIT OR WITHIN 5 FT (1.5 M) OF EXIT DOORWAYS. [101:9.6.2.3]
   13.7.1.4.8.4 MANUAL FIRE ALARM BOXES SHALL BE MOUNTED ON BOTH SIDES OF GROUPED OPENINGS OVER 40 FT (12.2 M) IN WIDTH, AND WITHIN 5 FT (1.5 M) OF EACH SIDE OF THE OPENING. [101:9.6.2.4]
   13.7.1.4.8.5 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 (60 M) SHALL NEED TO BE TRAVERSED TO REACH A MANUAL FIRE ALARM BOX. [101:9.6.2.5]

N. NOTIFICATION DEVICES
   13.7.1.4.10.5 UNLESS OTHERWISE PROVIDED IN 13.7.1.4.10.5.1 THROUGH 13.7.1.4.10.5.8, 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. [101:9.6.3.5]

O. AUDIBILITY.
   13.7.1.4.10.8 AUDIBLE ALARM NOTIFICATION APPLIANCES SHALL PRODUCE SIGNALS THAT ARE DISTINCTIVE FROM AUDIBLE SIGNALS USED FOR OTHER PURPOSES IN A GIVEN BUILDING. [101:9.6.3.8].
   AUDIBLE SIGNALS SHALL HAVE A SOUND LEVEL AT LEAST 15 DB ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 DB ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, MEASURED 5 FT (1.5 M) ABOVE THE FLOOR IN THE AREA REQUIRED TO BE SERVED BY THE SYSTEM USING THE A-WEIGHTED SCALE (DBA). (NFPA 72 18.4.3.1)

P. APPROVAL AND ACCEPTANCE
   13.7.3.2.1.1 THE AHJ SHALL BE NOTIFIED PRIOR TO INSTALLATION OR ALTERATION OF EQUIPMENT OR WIRING. [72:10.18.1.1]
   13.7.3.2.1.2 AT THE AHJ'S REQUEST, COMPLETE INFORMATION REGARDING THE SYSTEM OR SYSTEM ALTERATIONS, INCLUDING SPECIFICATIONS, TYPE OF SYSTEM OR SERVICE, SHOP DRAWINGS, INPUT/OUTPUT MATRIX, BATTERY CALCULATIONS, AND NOTIFICATION APPLIANCE CIRCUIT VOLTAGE DROP CALCULATIONS, SHALL BE SUBMITTED FOR APPROVAL. [72:10.18.1.2]
   13.7.3.2.1.3 BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION, IF REQUIRED BY THE AHJ, THE INSTALLING CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT STATING THAT THE SYSTEM HAS BEEN INSTALLED IN ACCORDANCE WITH APPROVED PLANS AND TESTED IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTRUCTIONS AND THE APPROPRIATE NFPA REQUIREMENTS. [72:10.18.1.3]
   13.7.3.2.1.4 THE RECORD OF COMPLETION FORM, FIGURE 10.18.2.1.1 OF NFPA 72, SHALL BE PERMITTED TO BE A PART OF THE WRITTEN STATEMENT REQUIRED IN 13.7.3.2.1.3. 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. [72:10.18.1.4]
   13.7.3.2.1.5 THE RECORD OF COMPLETION FORM, FIGURE 10.18.2.1.1 OF NFPA 72, SHALL BE PERMITTED TO BE A PART OF THE DOCUMENTS THAT SUPPORT THE REQUIREMENTS OF 13.7.3.2.2.4. [72:10.18.1.5]

Q. TAG
   13.7.3.2.5 A TAG SHALL BE PLACED ON THE FIRE ALARM PANEL WHEN TESTED IN ACCORDANCE WITH SECTION 13.7.3.2. INFORMATION ON THE TAG SHALL INCLUDE THE DATE OF TESTING, TESTING COMPANY AND CONTACT INFORMATION, TECHNICIAN PERFORMING THE TEST, AND THAT THE TEST WAS SATISFACTORY. (NFPA 1 CHAPTER 13, AS AMENDED.)

R. VISIBLE SIGNALING
   NFPA 72 18.5.1.1 PUBLIC MODE VISIBLE SIGNALING SHALL MEET THE REQUIREMENTS OF SECTION 18.5 USING VISIBLE NOTIFICATION APPLIANCES.
   NFPA 72 A.18.5.1 THERE ARE TWO METHODS OF VISIBLE SIGNALING. THESE ARE METHODS IN WHICH NOTIFICATION OF AN EMERGENCY CONDITION IS CONVEYED BY DIRECT VIEWING OF THE ILLUMINATING APPLIANCE OR BY MEANS OF ILLUMINATION OF THE SURROUNDING AREA. VISIBLE NOTIFICATION APPLIANCES USED IN THE PUBLIC MODE MUST BE LOCATED AND MUST BE OF A TYPE, SIZE, INTENSITY, AND NUMBER SO THAT THE OPERATING EFFECT OF THE APPLIANCE IS SEEN BY THE INTENDED VIEWERS REGARDLESS OF THE VIEWER'S ORIENTATION.

S. MECHANICAL PROTECTION
   CIRCUIT DISCONNECTING MEANS SHOULD HAVE A RED MARKING, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT".
   THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY MARKED AT THE FIRE ALARM CONTROL PANEL.

T. SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS
   16.1.1 STRUCTURES UNDERGOING CONSTRUCTION, ALTERATION, OR DEMOLITION OPERATIONS, INCLUDING THOSE IN UNDERGROUND LOCATIONS, SHALL COMPLY WITH NFPA 241, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS, AND NFPA 1 CHAPTER 16.
   16.1.2 A FIRE PROTECTION PLAN SHALL BE ESTABLISHED WHERE REQUIRED BY THE AHJ.
   16.1.3 IN BUILDINGS UNDER CONSTRUCTION, ADEQUATE ESCAPE FACILITIES SHALL BE MAINTAINED AT ALL TIMES FOR THE USE OF CONSTRUCTION WORKERS. ESCAPE FACILITIES SHALL CONSIST OF DOORS, WALKWAYS, STAIRS, RAMPS, FIRE ESCAPES, LADDERS, OR OTHER APPROVED MEANS OR DEVICES ARRANGED IN ACCORDANCE WITH THE GENERAL PRINCIPLES OF NFPA 1 CHAPTER 14 AND NFPA 101, LIFE SAFETY CODE, INSOFAR AS THEY CAN REASONABLY BE APPLIED TO BUILDINGS UNDER CONSTRUCTION. [101:4.6.10.2]
   16.1.4 FIRE DEPARTMENT ACCESS ROADS PROVIDED IN ACCORDANCE WITH 18.2.3 SHALL BE PROVIDED AT THE START OF A PROJECT AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

U. STANDPIPES
   16.3.5 IN ALL NEW BUILDINGS IN WHICH STANDPIPES ARE REQUIRED OR WHERE STANDPIPES EXIST IN BUILDINGS BEING ALTERED OR DEMOLISHED, SUCH STANDPIPES SHALL BE MAINTAINED IN CONFORMITY WITH THE PROGRESS OF BUILDING CONSTRUCTION IN SUCH A MANNER THAT THEY ARE ALWAYS READY FOR USE. [241:7.6]
   16.4.3.3.2.10 TEMPORARY STANDPIPES SHALL REMAIN IN SERVICE UNTIL THE PERMANENT STANDPIPE INSTALLATION IS COMPLETE. [241:8.7.4.2.10]

V. ALTERATION OF BUILDINGS
   16.4.4.1 WHERE THE BUILDING IS PROTECTED BY FIRE PROTECTION SYSTEMS, SUCH SYSTEMS SHALL BE MAINTAINED OPERATIONAL AT ALL TIMES DURING ALTERATION.
   16.4.4.2 WHERE ALTERATION REQUIRES MODIFICATION OF A PORTION OF THE FIRE PROTECTION SYSTEM, THE REMAINDER OF THE SYSTEM SHALL BE KEPT IN SERVICE AND THE FIRE DEPARTMENT SHALL BE NOTIFIED.
   16.4.4.3 WHEN IT IS NECESSARY TO SHUT DOWN THE SYSTEM, THE AHJ SHALL HAVE THE AUTHORITY TO REQUIRE ALTERNATE MEASURES OF PROTECTION UNTIL THE SERVICE IS RETURNED TO SERVICE.
   16.4.4.4 THE FIRE DEPARTMENT SHALL BE NOTIFIED WHEN THE SYSTEM IS SHUT DOWN AND WHEN THE SYSTEM IS RETURNED TO SERVICE.
   16.4.4.5 ALL REQUIRED EXIT COMPONENTS SHALL BE MAINTAINED IN ACCORDANCE WITH THIS CODE AS DEEMED NECESSARY BY THE AHJ.
   16.4.4.6 FIRE-RESISTIVE ASSEMBLIES AND CONSTRUCTION SHALL BE MAINTAINED. 10.8.1.1 AS NECESSARY DURING EMERGENCIES, MAINTENANCE, DRILLS, PRESCRIBED TESTING, ALTERATIONS, OR RENOVATIONS, PORTABLE OR FIXED FIRE-EXTINGUISHING SYSTEMS OR DEVICES OR ANY FIRE-WARNING SYSTEM OR DEVICE SHALL BE PERMITTED TO BE MADE INOPERATIVE OR INACCESSIBLE.
   A FIRE WATCH SHALL BE REQUIRED AS SPECIFIED IN SECTIONS 13.3.3.6.5.2 (3) AND (4), 13.7.1.4.4, 16.5.4, 20.2.3.6, 34.5.4.3, 34.6.3.3, 41.2.2.6, 41.2.2.7, 41.2.4, 41.3.5, 41.4.1, AND A.25.1.8 AT NO COST TO THE AHJ.

W. FIRE SAFETY DURING DEMOLITION
   16.5.1 IF A BUILDING INTENDED TO BE DEMOLISHED CONTAINS A SPRINKLER SYSTEM, SUCH SYSTEM SHALL NOT BE RENDERED INOPERATIVE WITHOUT APPROVAL OF THE AHJ.
   16.5.2 DEMOLITION OPERATIONS INVOLVING THE USE OF CUTTING AND WELDING SHALL BE DONE IN ACCORDANCE WITH CHAPTER 41.
   16.5.3 COMBUSTIBLE WASTE MATERIAL SHALL NOT BE BURNED AT THE DEMOLITION SITE UNLESS APPROVED BY THE AHJ. COMBUSTIBLE MATERIALS SHALL BE REMOVED FROM THE SITE AS OFTEN AS NECESSARY TO MINIMIZE HE HAZARDS THEREFROM. (SEE 16.2.2 AND SECTION 10.11.)
   16.5.4 WHERE IN THE OPINION OF THE AHJ THE DEMOLITION SITE IS OF A HAZARDOUS NATURE, QUALIFIED PERSONNEL SHALL SERVE AS AN ON-SITE FIRE WATCH.

FSC ARCHITECTS

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DEREK H. FUJIKAWA
LICENSED PROFESSIONAL ENGINEER
No. 7246-E
STATE OF HAWAII

NOTE: CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AT JOB BEFORE PROCEEDING WITH WORK.

DEVELOPER:
CALIFORNIA INVESTMENT REGIONAL CENTER, LLC

PROJECT OWNER:
HAWAII CITY PLAZA, LP

Hawaii City Plaza
Honolulu, Hawaii
710 Sheridan Street
TMK 2-3-014; Parcels 002, 004, & 011

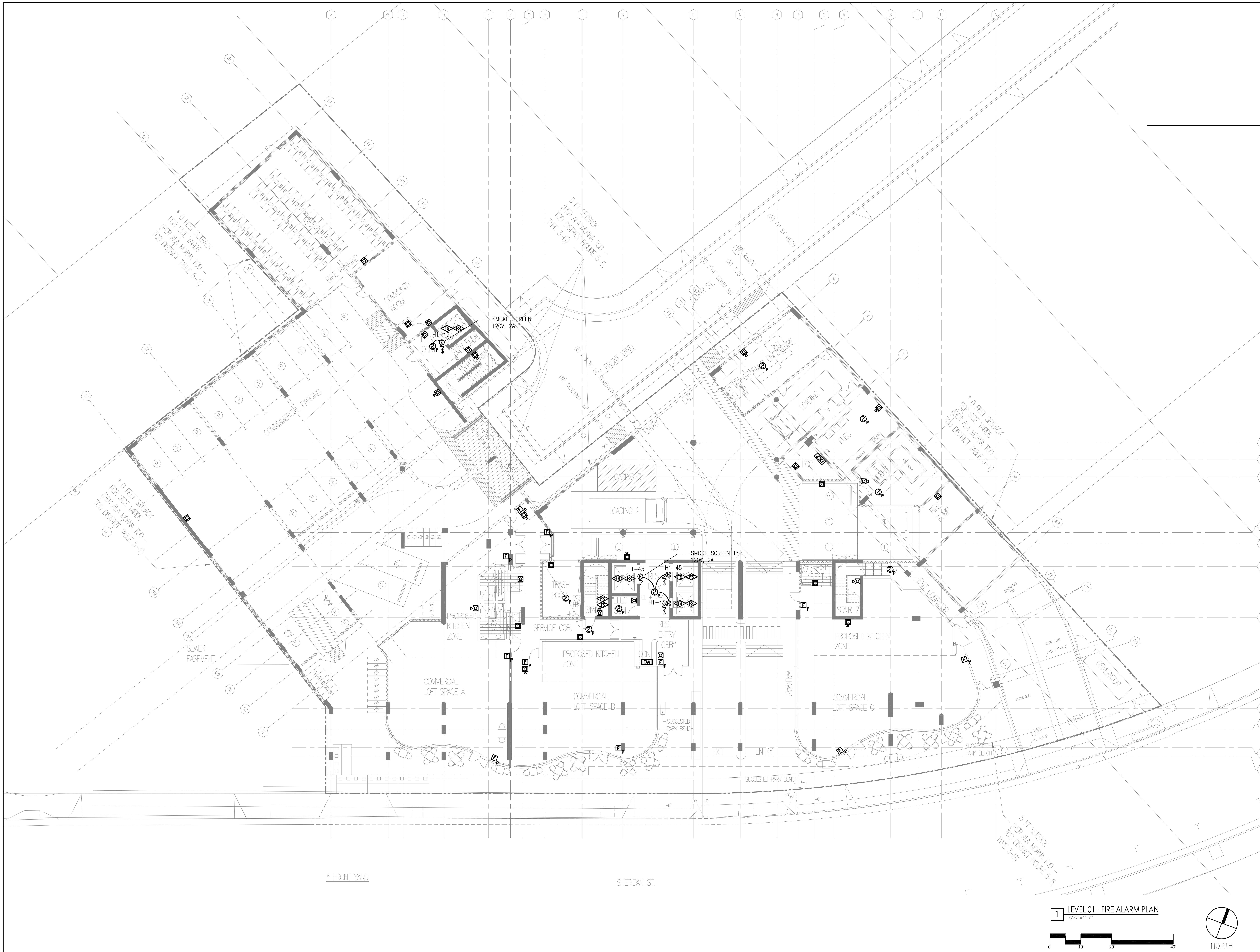
PERMIT SET

DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
FIRE ALARM NOTES, LEGEND AND SEQ OF OPERATIONS

SHEET NO.
FA0.001



1 LEVEL 01 - FIRE ALARM PLAN
3/32"=1'-0"

0' 10' 20' 40'

ARCHITECTS

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HAWAII, U.S.A.

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PERMIT SET

DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
LEVEL 01 - FIRE ALARM PLAN

SHEET NO.
FA1.101

1 LEVEL 01 MEZZANINE - FIRE ALARM PLAN
3/32"=1'-0"

0' 10' 20' 40'

NORTH

FSC ARCHITECTS

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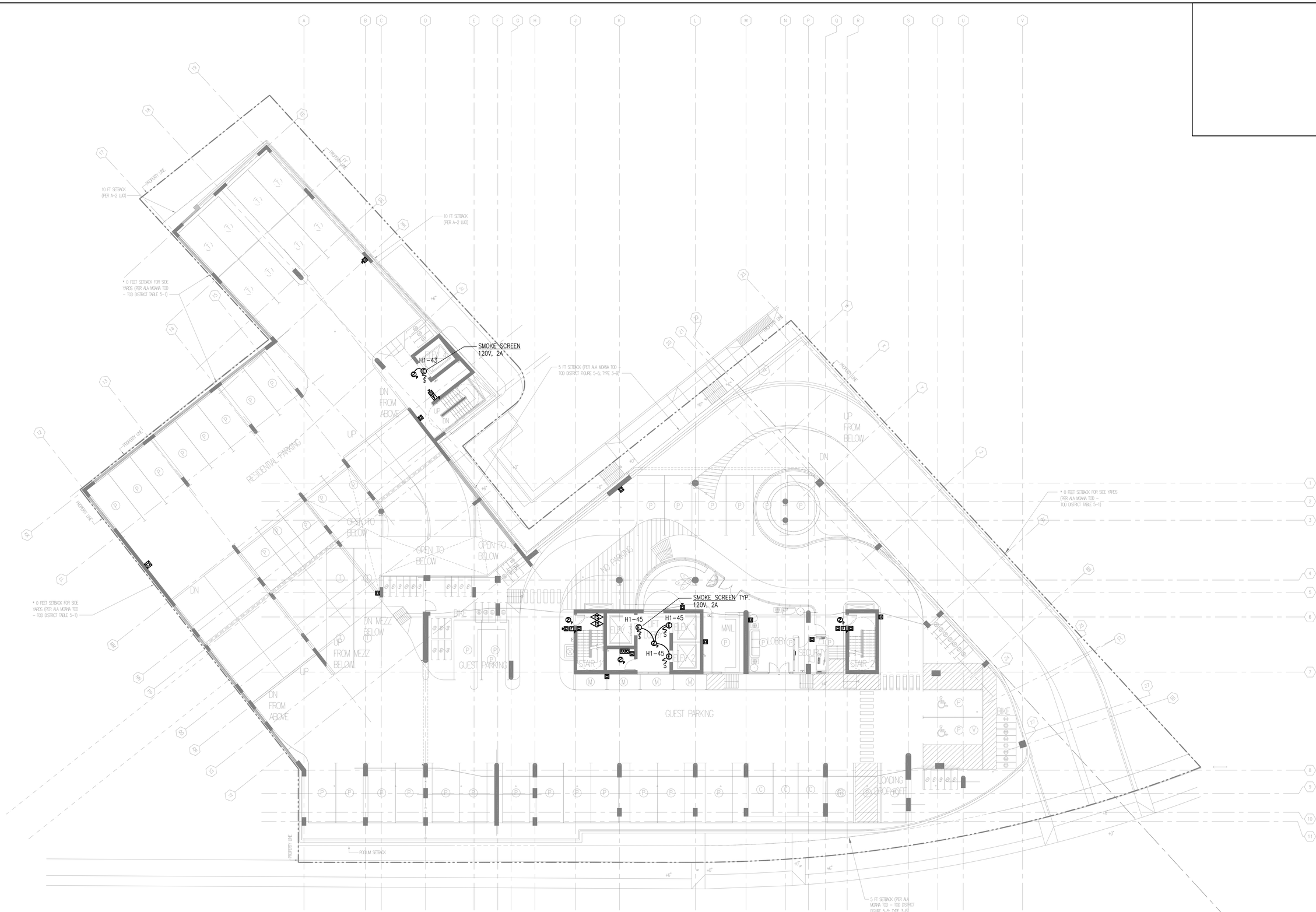
PERMIT SET

DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
LEVEL 01 MEZZANINE - FIRE ALARM PLAN

SHEET NO.
FA1.101B



1 LEVEL 02 - FIRE ALARM PLAN
3/32"=1'-0"

0' 10' 20' 40'

NORTH

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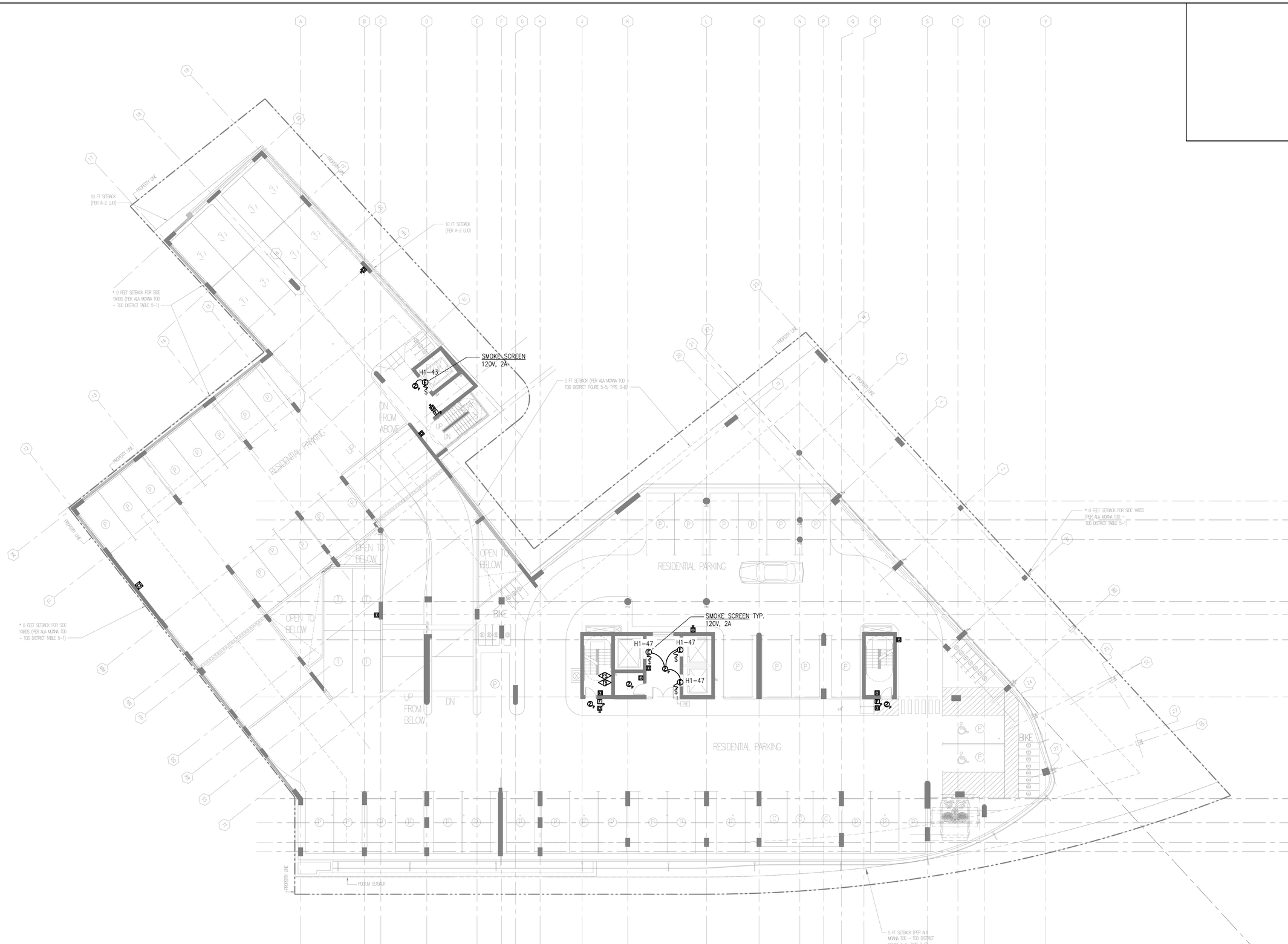
PERMIT SET

DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
LEVEL 02 - FIRE ALARM PLAN

SHEET NO.
FA1.102



1 LEVEL 03-04 - TYP. FIRE ALARM PLAN
3/32"=1'-0"

0' 10' 20' 40'

NORTH

FSC ARCHITECTS

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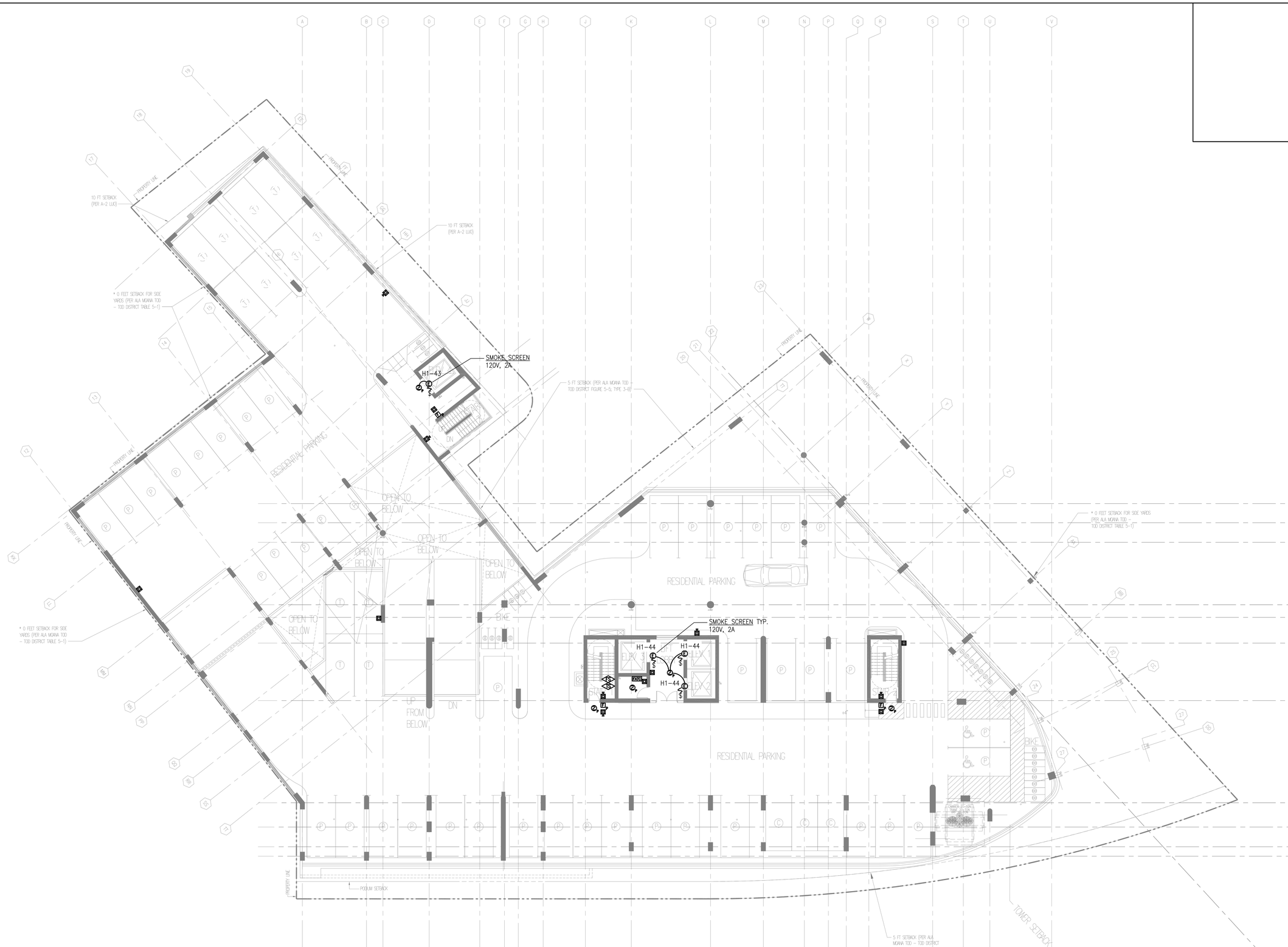
DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
LEVEL 03-04 - FIRE ALARM PLAN

SHEET NO.
FA1.103



1 LEVEL 05 - FIRE ALARM PLAN
3/32"=1'-0"

0' 10' 20' 40'

NORTH

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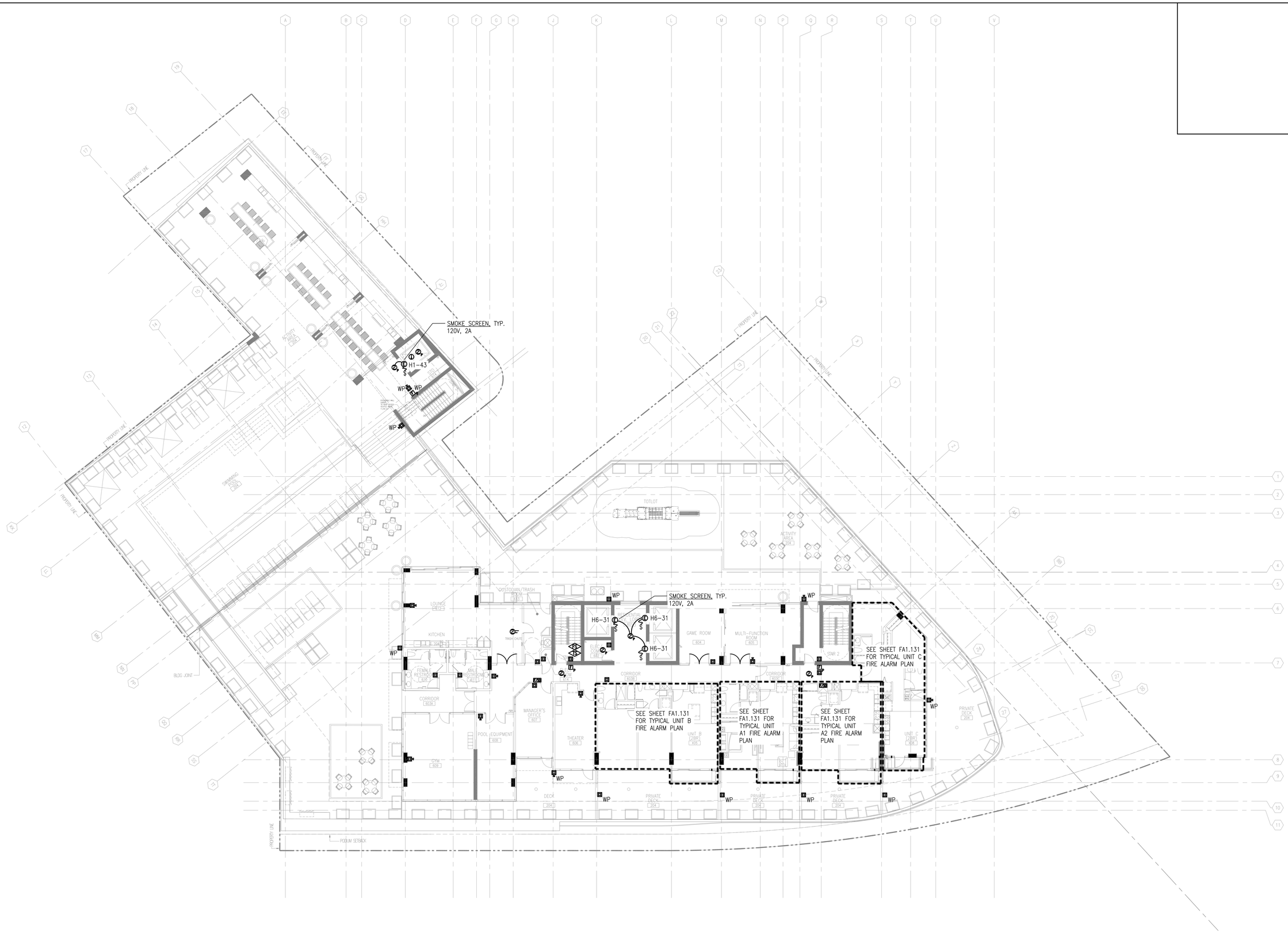
DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
LEVEL 05 - FIRE ALARM PLAN

SHEET NO.
FA1.104



1 LEVEL 06 - FIRE ALARM PLAN
3/32"=1'-0"

0 10' 20' 40'

NORTH

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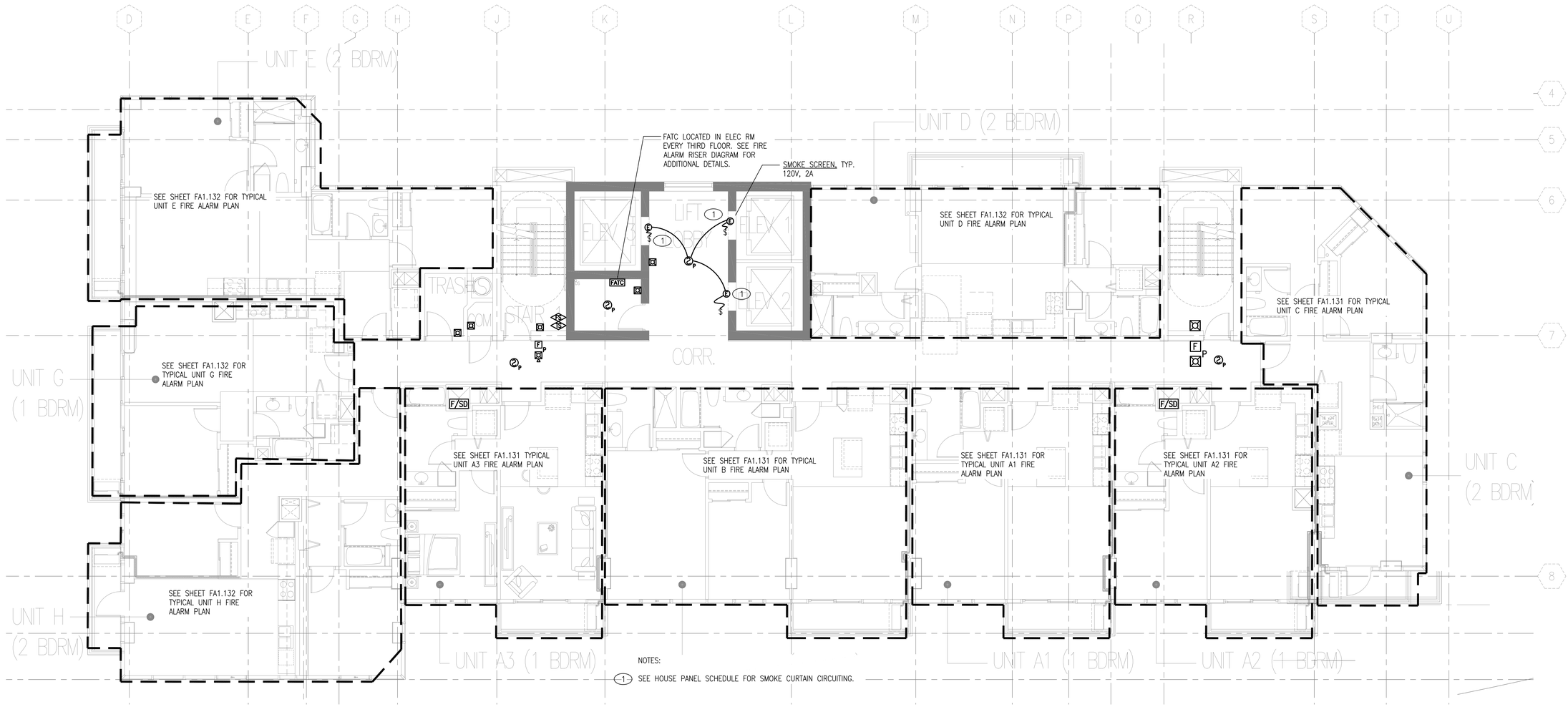
SHEET TITLE
LEVEL 06 - FIRE ALARM PLAN

SHEET NO.
FA1.105



NOTES:

1. SEE HOUSE PANEL SCHEDULE FOR SMOKE CURTAIN CIRCUITING.

1 LEVEL 07-26 - TYP. FIRE ALARM PLAN
3/16"=1'-0"

NORTH

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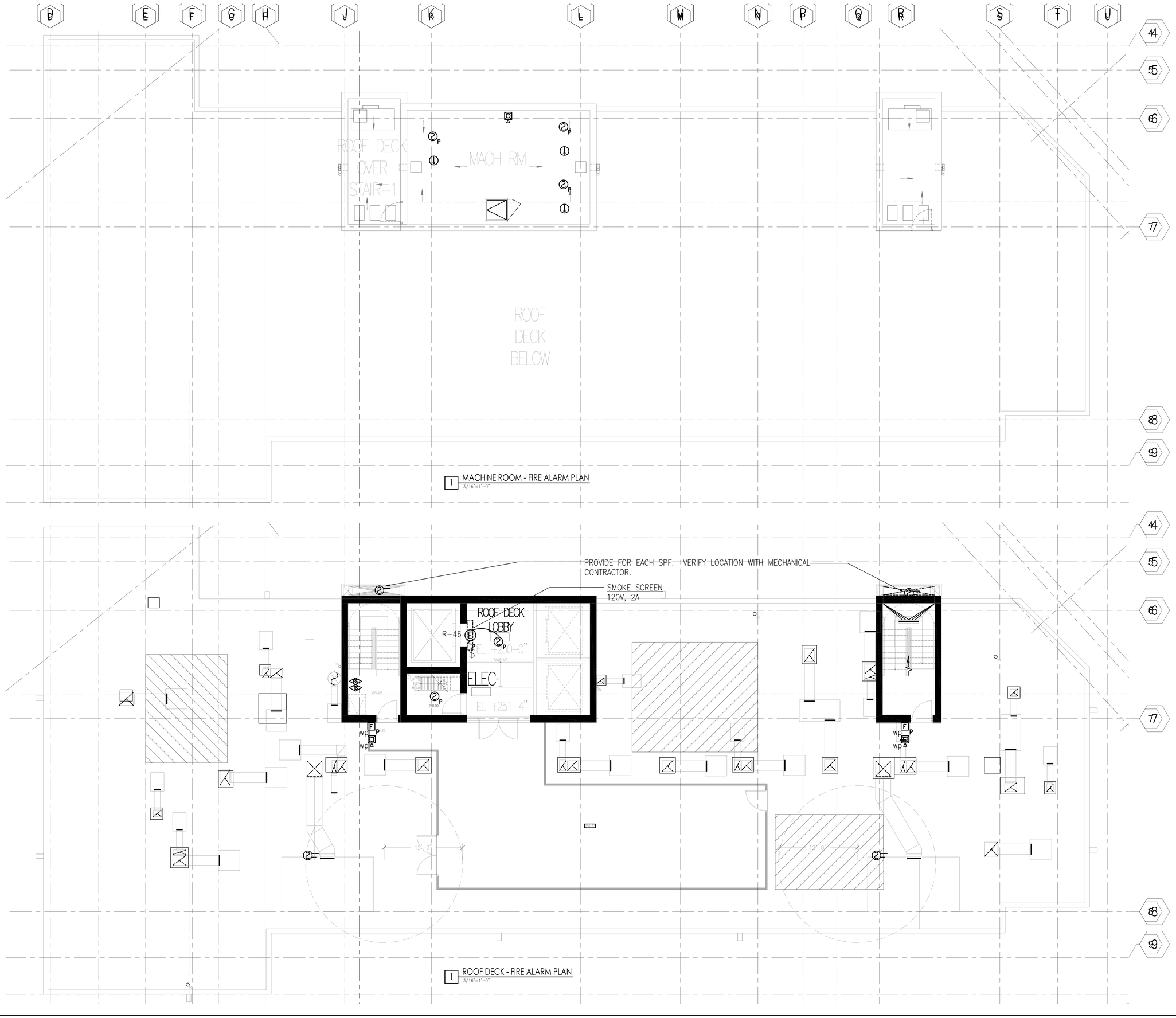
DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
LEVEL 07-26 - FIRE ALARM PLAN

SHEET NO.
FA1.106



1 MACHINE ROOM - FIRE ALARM PLAN
3/16"=1'-0"

1 ROOF DECK - FIRE ALARM PLAN
3/16"=1'-0"

NORTH

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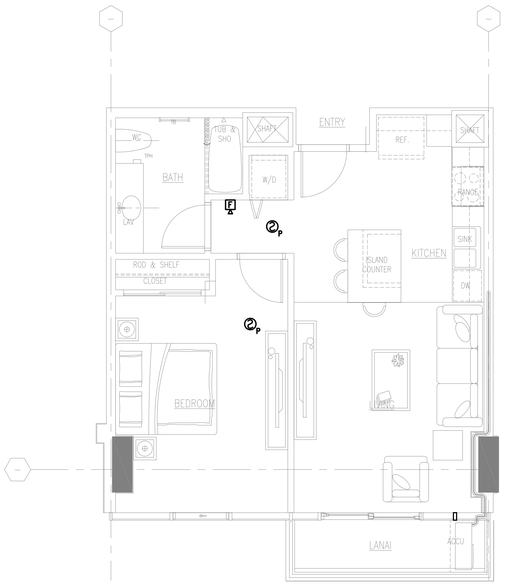
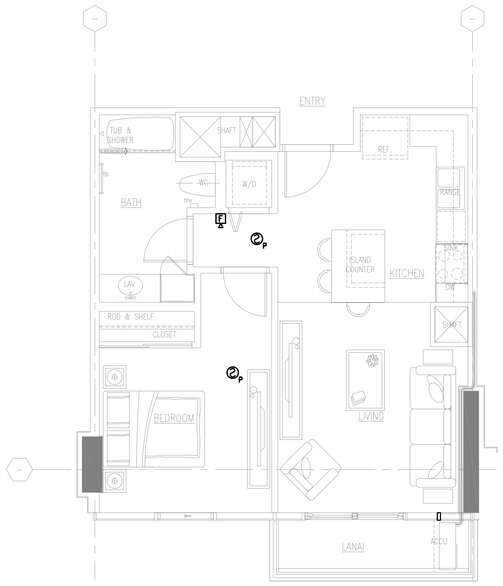
PROJECT # 15028-02

SHEET TITLE
ROOF DECK - FIRE ALARM PLAN

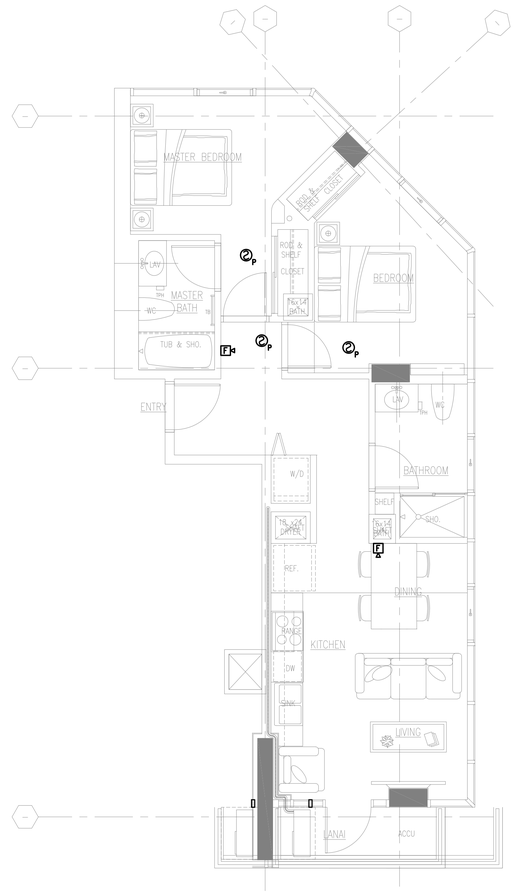
SHEET NO.
FA1.107



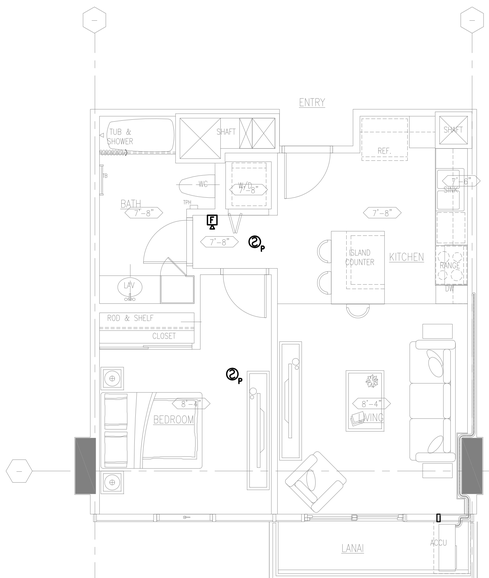
1 UNIT A1 - FIRE ALARM
1/4" = 1'-0"



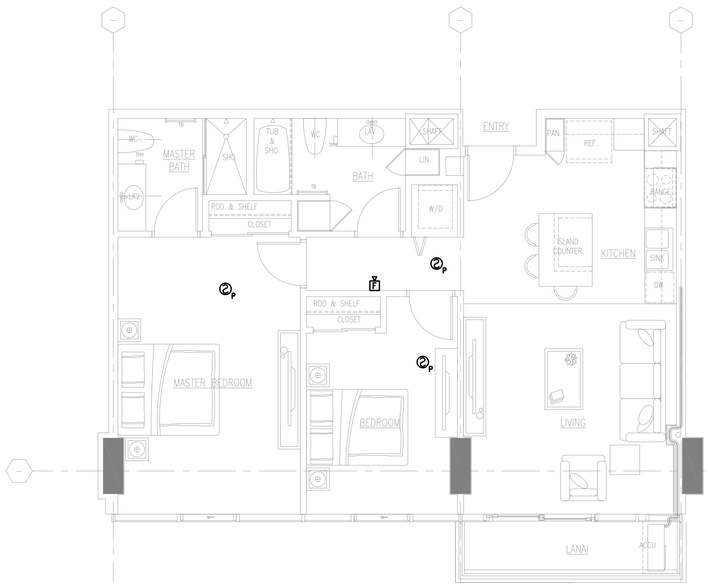
2 UNIT A2 - FIRE ALARM
1/4" = 1'-0"



3 UNIT C - FIRE ALARM
1/4" = 1'-0"



4 UNIT A3 - FIRE ALARM
1/4" = 1'-0"



5 UNIT B - FIRE ALARM
1/4" = 1'-0"

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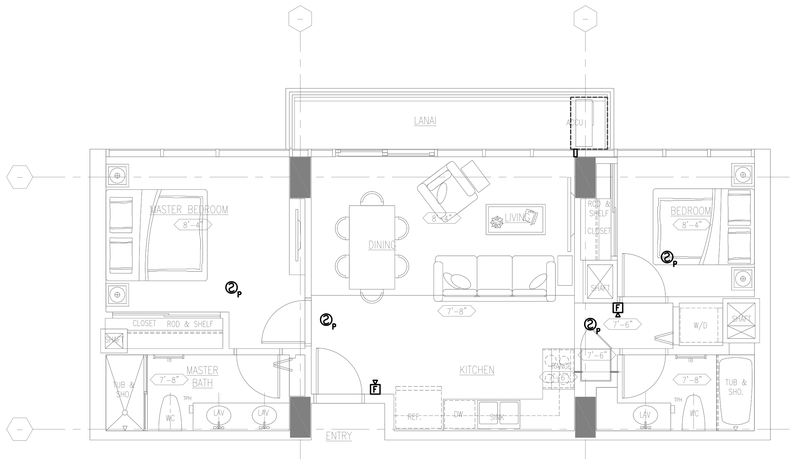
PERMIT SET

DATE 2019 MARCH 19

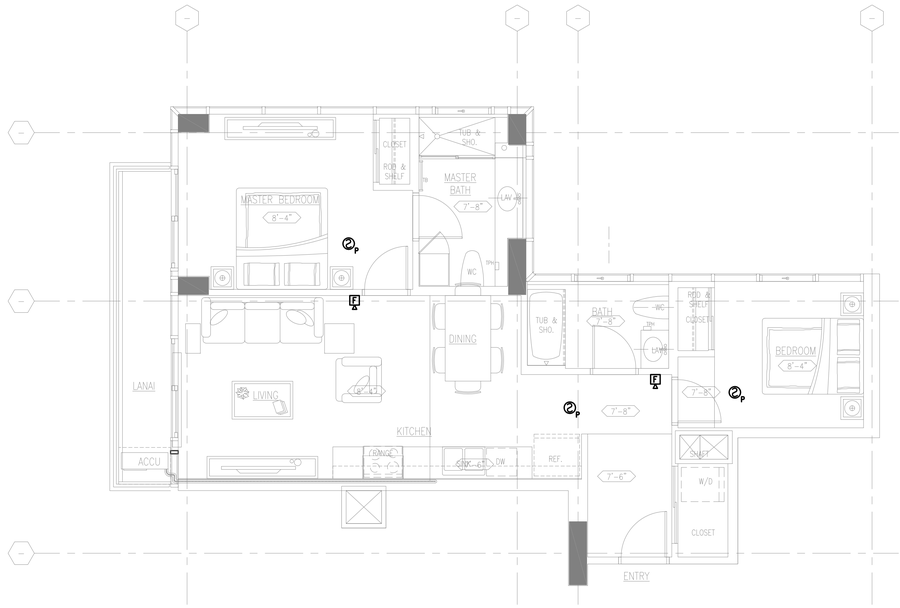
PROJECT # 15028-02

SHEET TITLE
UNITS A1, A2, A3, B, & C - FIRE ALARM PLANS

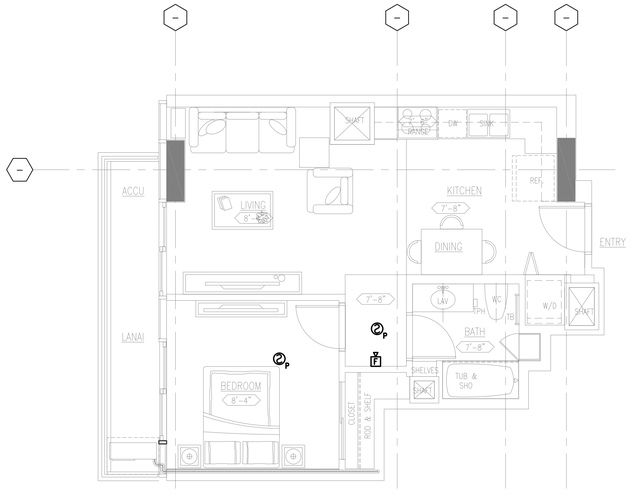
SHEET NO.
FA1.131



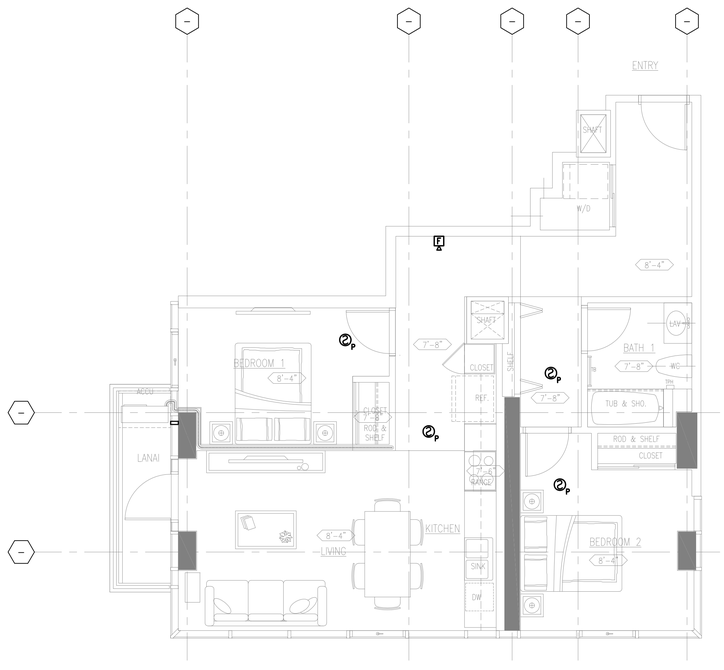
1 UNIT D - FIRE ALARM
1/4" = 1'-0"



2 UNIT E - FIRE ALARM
1/4" = 1'-0"



3 UNIT G - FIRE ALARM
1/4" = 1'-0"



4 UNIT H - FIRE ALARM
1/4" = 1'-0"

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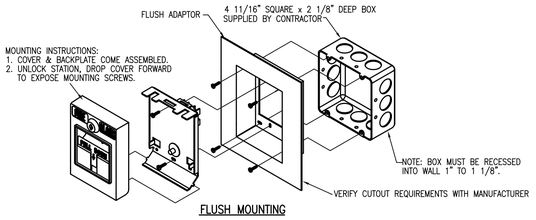
PERMIT SET

DATE 2019 MARCH 19

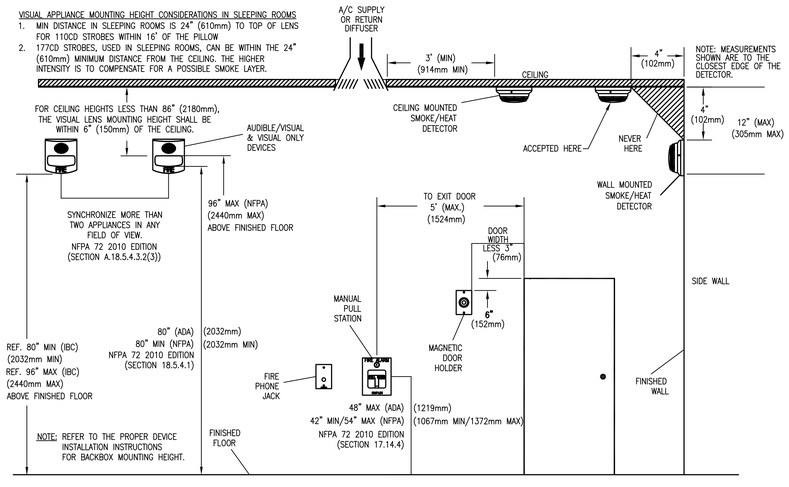
PROJECT # 15028-02

SHEET TITLE
UNITS D, E, G, & H - FIRE ALARM PLANS

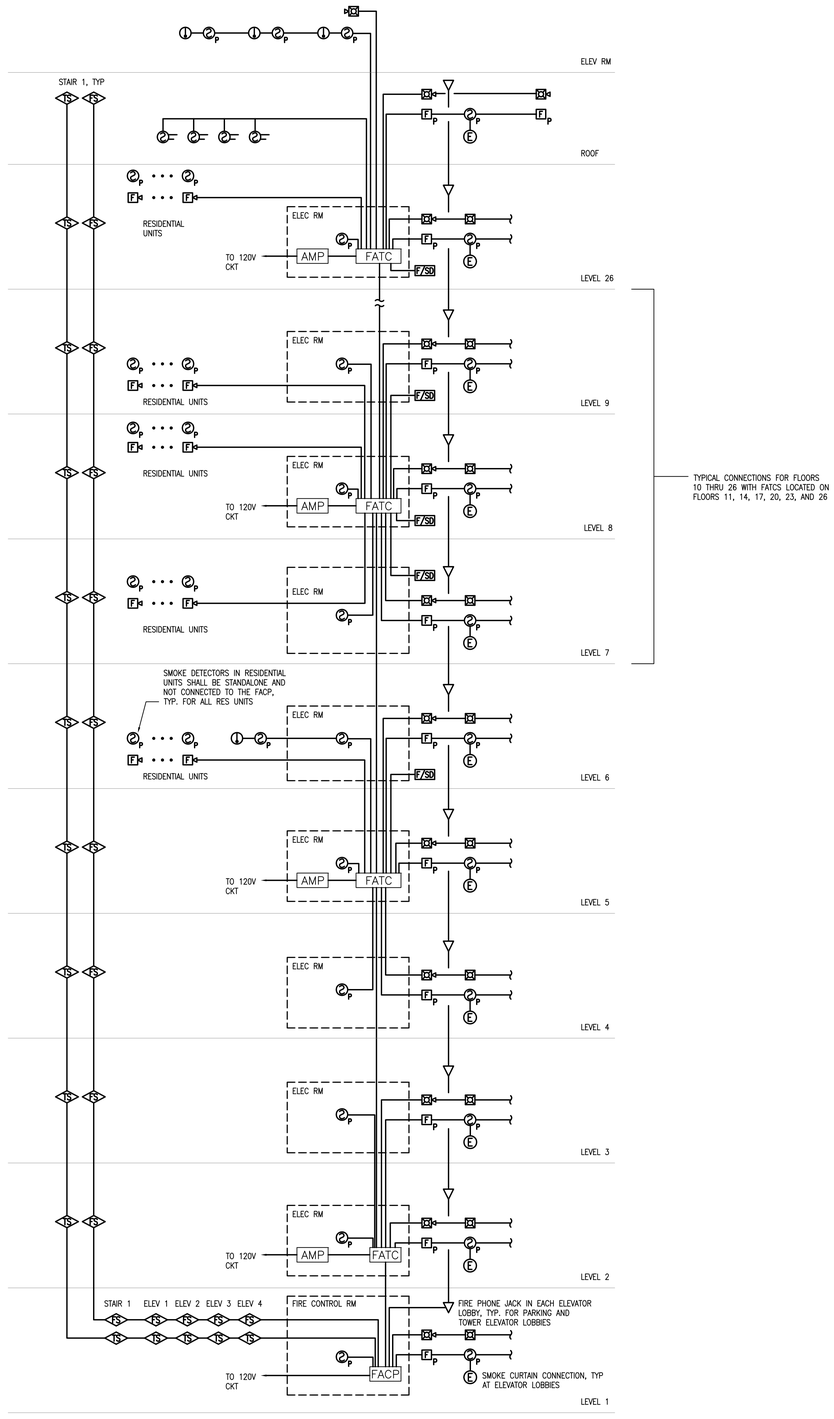
SHEET NO.
FA1.132



2 FIRE ALARM DEVICE WALL MOUNTING DETAILS
NOT TO SCALE



3 FIRE ALARM DEVICE MOUNTING DETAILS
NOT TO SCALE



1 FIRE ALARM RISER DIAGRAM
NOT TO SCALE

FSC ARCHITECTS

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PERMIT SET

DATE 2019 MARCH 19

PROJECT # 15028-02

SHEET TITLE
FIRE ALARM RISER DIAGRAM & DETAILS

SHEET NO.
FA2.101