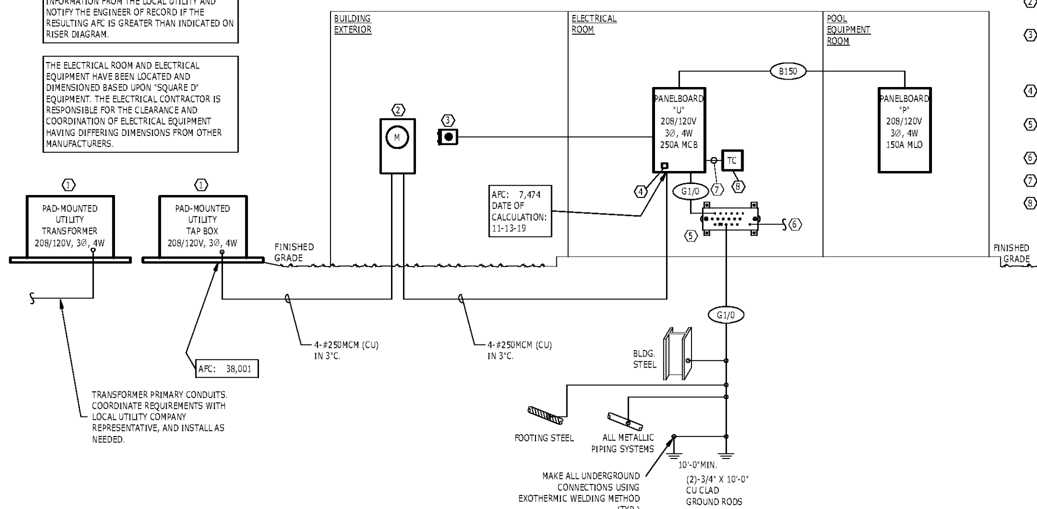
SERVICE EQUIPMENT SHALL BE MARKED TO INDICATED THE MAXIMUM AVAILABLE FAULT CURRENT AS REQUIRED BY 2014 NEC SECTION 110.24. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. ELECTRICAL CONTRACTOR SHALL REQUEST A DATED LETTER WITH FAULT CURRENT INFORMATION FROM THE LOCAL UTILITY AND NOTIFY THE ENGINEER OF RECORD IF THE RESULTING AFC IS GREATER THAN INDICATED ON RISER DIAGRAM.

THE ELECTRICAL ROOM AND ELECTRICAL EQUIPMENT HAVE BEEN LOCATED AND DIMENSIONED BASED UPON "SQUARE D" EQUIPMENT. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE CLEARANCE AND COORDINATION OF ELECTRICAL EQUIPMENT HAVING DIFFERING DIMENSIONS FROM OTHER MANUFACTURERS.



ELECTRICAL RISER DIAGRAM - BUILDING D

SCALE: NONE

KEYED NOTES - ELECTRICAL RISER DIAGRAM:

1. COORDINATE LOCATION AND REQUIREMENTS WITH LOCAL UTILITY PRIOR TO ROUGH-IN.
2. UTILITY METER MOUNTED TO BUILDING EXTERIOR, COORDINATE LOCATION AND REQUIREMENTS WITH LOCAL UTILITY PRIOR TO ROUGH-IN.
3. SHUNT TRIP WEATHERPROOF PUSH BUTTON AND ENCLOSURE, GLASS BREAK TYPE EQUAL TO SQUARE D 9001-KYK117 W/ K15 OPERATOR. PUSH BUTTON SHALL BE ACCESSIBLE TO THE FIRE DEPARTMENT, COORDINATE LOCATION WITH AHJ. PROVIDE PERMANENT LABEL SUITABLE FOR EXTERIOR USE.
4. SURGE PROTECTIVE DEVICE: PQ PROTECTION "PQM200" (OR APPROVED EQUAL)
5. PROVIDE SOLID COPPER GROUND BUS BAR SIZED AS REQUIRED FOR THE SERVICE AND TTB LOCATIONS.
6. (1) #6 CU. TO TTB GROUND BUS BAR.
7. UNSWITCHED BRANCH CIRCUIT CONDUCTORS.
8. TIMECLOCK EQUAL TO INTERMATIC ET SERIES, ELECTRONIC/ASTRONOMIC. REFER TO SCHEDULE, ON THIS SHEET FOR NUMBER OF CIRCUITS.

Panelboard: U

Location: MAINTENANCE & STORAGE...
Supply From:
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating:
MCB Rating: 250 A

Notes:

CKT	Load Name	Trip	Pole	A	A	B	B	C	C	Pole	Trip	Load Name	CKT
1	Panel P	150 A	3	0.00	0.72					1	20 A	Convenience Outlets	2
3	--	--	--			0.00	0.72			1	20 A	Convenience Outlets	4
5	--	--	--					0.00	0.90	1	20 A	Convenience Outlets	6
7	Convenience Outlets	20 A	1	0.54	0.42					1	20 A	Interior Lighting	8
9	Exterior Lighting	20 A	1			0.00	0.50			1	20 A	Time Clock	10
11	Inline Exhaust Fan	20 A	1					0.80	0.50	1	20 A	Time Clock	12
13	Roof Top Unit	45 A	2	4.68									14
15	--	--	--			4.68							16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
			Total Load:	6.11		5.70		2.10		kVA			
			Total Amps:	55.55		52.15		17.46		AMPS			

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Cooling	800 VA	100.00%	800 VA		
HVAC	9360 VA	100.00%	9360 VA	Total Conn. Load:	13.85 kVA
Lighting	424 VA	125.00%	530 VA	Total Est. Demand:	13.94 kVA
Power	1000 VA	100.00%	1000 VA	Total Conn.:	38.43 A
Receptacle	2880 VA	100.00%	2880 VA	Total Est. Demand:	38.70 A

Notes:

COPPER CONDUCTOR AND CONDUIT SCHEDULE

O.C.P.D.** AMPERE RATING	SYMBOL*	3 WIRE WITH GROUND (2P W/ NEUTRAL) OR (3P)	SYMBOL*	4 WIRE WITH GROUND (3P W/ NEUTRAL)
20A	A20	3-#12, #12G. IN 3/4"C.	B20	4-#12, #12G. IN 3/4"C.
25A	A25	3-#10, #10G. IN 3/4"C.	B25	4-#10, #10G. IN 3/4"C.
30A	A30	3-#10, #10G. IN 3/4"C.	B30	4-#10, #10G. IN 3/4"C.
35A	A35	3-#8, #10G. IN 1"C.	B35	4-#8, #10G. IN 1"C.
40A	A40	3-#8, #10G. IN 1"C.	B40	4-#8, #10G. IN 1"C.
45A	A45	3-#8, #10G. IN 1"C.	B45	4-#8, #10G. IN 1"C.
50A	A50	3-#8, #10G. IN 1"C.	B50	4-#8, #10G. IN 1"C.
60A	A60	3-#6, #10G. IN 1 1/4"C.	B60	4-#6, #10G. IN 1 1/4"C.
70A	A70	3-#4, #8G. IN 1 1/4"C.	B70	4-#4, #8G. IN 1 1/4"C.
80A	A80	3-#4, #8G. IN 1 1/4"C.	B80	4-#4, #8G. IN 1 1/4"C.
90A	A90	3-#3, #8G. IN 1 1/4"C.	B90	4-#3, #8G. IN 1 1/2"C.
100A	A100	3-#3, #8G. IN 1 1/4"C.	B100	4-#3, #8G. IN 1 1/2"C.
110A	A110	3-#2, #6G. IN 1 1/2"C.	B110	4-#2, #6G. IN 1 1/2"C.
125A	A125	3-#1, #6G. IN 2"C.	B125	4-#1, #6G. IN 2"C.
150A	A150	3-#1/0, #6G. IN 2"C.	B150	4-#1/0, #6G. IN 2"C.
175A	A175	3-#2/0, #6G. IN 2"C.	B175	4-#2/0, #6G. IN 2 1/2"C.
200A	A200	3-#3/0, #6G. IN 2 1/2"C.	B200	4-#3/0, #6G. IN 2 1/2"C.
225A	A225	3-#4/0, #4G. IN 2 1/2"C.	B225	4-#4/0, #4G. IN 3"C.
250A	A250	3-#250MCM, #4G. IN 3"C.	B250	4-#250MCM, #4G. IN 3"C.
300A	A300	3-#350MCM, #4G. IN 3"C.	B300	4-#350MCM, #4G. IN 3 1/2"C.
350A	A350	3-#400MCM, #3G. IN 3"C.	B350	4-#400MCM, #3G. IN 3 1/2"C.
400A	A400	3-#500MCM, #3G IN 3 1/2"C.	B400	4-#500MCM, #3G IN 4"C.
450A	A450	2 SETS: 3-#4/0, #2G. EACH IN 2 1/2"C.	B450	2 SETS: 4-#4/0, #2G. EACH IN 2 1/2"C.
500A	A500	2 SETS: 3-#250MCM, #2G. EACH IN 3"C.	B500	2 SETS: 4-#250MCM, #2G. EACH IN 3"C.
600A	A600	2 SETS: 3-#350MCM, #1G. EACH IN 3"C.	B600	2 SETS: 4-#350MCM, #1G. EACH IN 3"C.
700A	A700	2 SETS: 3-#400MCM, #1/0G. EACH IN 3"C.	B700	2 SETS: 4-#400MCM, #1/0G. EACH IN 3 1/2"C.
800A	A800	2 SETS: 3-#500MCM, #1/0G. EACH IN 3 1/2"C.	B800	2 SETS: 4-#500MCM, #1/0G. EACH IN 4"C.
1000A	A1000	3 SETS: 3-#400MCM, #2/0G. EACH IN 3"C.	B1000	3 SETS: 4-#400MCM, #2/0G. EACH IN 3 1/2"C.
1200A	A1200	4 SETS: 3-#350MCM, #3/0G. EACH IN 3"C.	B1200	4 SETS: 4-#350MCM, #3/0G. EACH IN 3 1/2"C.
1600A	A1600	5 SETS: 3-#400MCM, #4/0G. EACH IN 3"C.	B1600	5 SETS: 4-#400MCM, #4/0G. EACH IN 3 1/2"C.
2000A	A2000	6 SETS: 3-#400MCM, #250MCM G. EACH IN 3"C.	B2000	6 SETS: 4-#400MCM, #250MCM G. EACH IN 3 1/2"C.
2200A	A2200	6 SETS: 3-#500MCM, #350MCM G. EACH IN 3 1/2"C.	B2200	6 SETS: 4-#500MCM, #350MCM G. EACH IN 4"C.
2500A	A2500	7 SETS: 3-#500MCM, #350MCM G. EACH IN 3 1/2"C.	B2500	7 SETS: 4-#500MCM, #350MCM G. EACH IN 4"C.
3000A	A3000	8 SETS: 3-#500MCM, #400MCM G. EACH IN 3 1/2"C.	B3000	8 SETS: 4-#500MCM, #400MCM G. EACH IN 4"C.

G1/0	1-#1/0 G IN 1"C.	G2/0	1-#2/0 G IN 1"C.	G3/0	1-#3/0 G IN 1"C.

* UNDERLINED TEXT WITHIN A SYMBOL INDICATES NO GROUND WIRE FOR SVC. FEEDER OR NO NEUTRAL FOR MOTOR LOAD.

** OVER CURRENT PROTECTIVE DEVICE

NOTES:

1. FOR SINGLE PHASE CIRCUITS, INCREASE WIRE ONE SIZE FOR EACH 100' OF CIRCUIT LENGTH. FOR THREE PHASE CIRCUITS, INCREASE WIRE ONE SIZE FOR EACH 200' OF CIRCUIT LENGTH. (ADJUST CONDUIT AS REQ'D).
2. VOLTAGE DROP: THE CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS COMBINED SHALL BE SIZED FOR A MAXIMUM OF 5 PERCENT VOLTAGE DROP TOTAL, IN ACCORDANCE WITH THE FLORIDA BUILDING CODE - ENERGY CONSERVATION, SECTION C405.6.3. CALCULATIONS SHALL BE COMPLETED BY THE ELECTRICAL CONTRACTOR BASED ON ACTUAL FIELD INSTALLATIONS AND DISTANCES PRIOR TO ROUGH-IN.
3. ALL UNDERGROUND AND ROOFTOP CONDUCTORS TO BE 90° C CONDUCTORS, TYPE XHHW-2 OR THWN-2. ALLOWABLE AMPACITY PER 75°C COLUMN, NEC 70 (2014) TABLE 310.15(B)(16).
4. ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN INSULATION UNLESS OTHERWISE NOTED.
5. FOR EQUIPMENT BONDING CONDUCTORS LOCATED ON THE SECONDARY SIDE OF TRANSFORMERS, REFER TO ARTICLE 250-30(A)(1) AND (2) OF NEC FOR SYSTEM BONDING AND SUPPLY SIDE BONDING JUMPER REQUIREMENTS. REFER TO ARTICLE 250.28 FOR ADDITIONAL REQUIREMENTS. SEE TABLE 250.66 FOR SIZING INFORMATION.

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CLIENT NAME
CLIENT NAME

PROJECT NAME
ROCKLEDGE MULTI-FAMILY
220 Barton Boulevard
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SHEET TITLE
ELECTRICAL LEGEND & SCHEDULES

NOV. 03, 2015

Revision Schedule		
No.	Description	Date

PROJECT NO. 0540-19-0010
DATE 2018/MO/DY
DRAWN Author
CHECKED Checker

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GMP PRICING SET

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