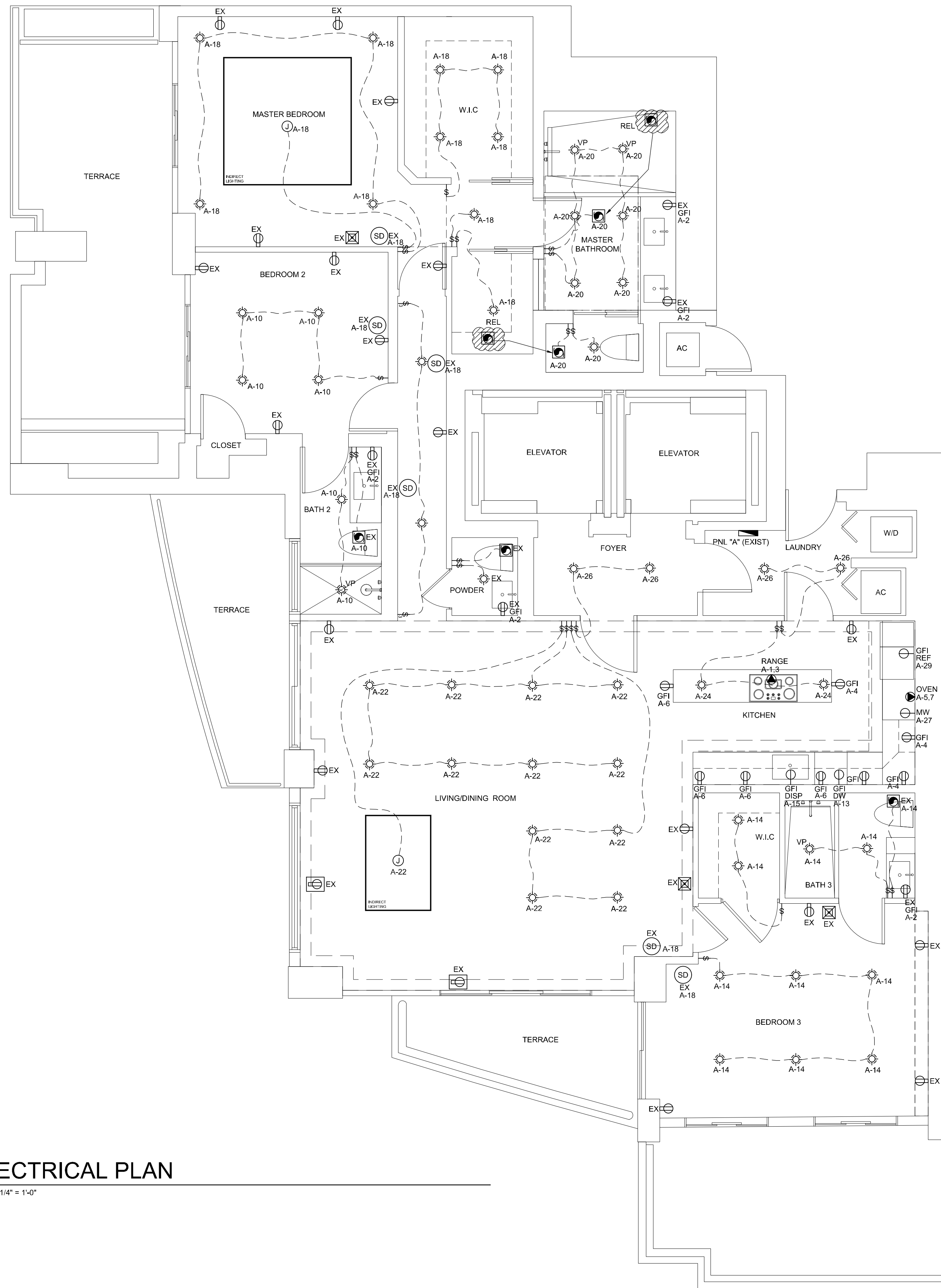


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 DANIEL RIVEROS
 FLORIDA PE #73152



ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

ELECTRICAL LEGEND

- ⊕ DUPLEX RECEPTACLE
- ⊕ GFI GROUND FAULT INTERRUPTOR
- ⊕ WP WATER PROOF
- 220 VOLTS
- ⊕ SWITCH
- 3 WAY SWITCH
- ⊕ SWITCH W/ DIMMER
- ⊕ ELECT METER
- ⊕ EXHAUST FAN
- ⊕ DISCONNECT
- ⊕ ELECT PANEL
- ⊕ CEILING OR WALL MOUNTED SMOKE DETECTOR
- ⊕ CM CEILING OR WALL MOUNTED CARBON MONOXIDE DETECTOR
- ⊕ FIRE ALARM
- ⊕ PHONE OUTLET
- ⊕ DATA OUTLET
- ⊕ TELEVISION OUTLET
- ⊕ JUNCTION BOX IN CLG
- ⊕ INCANDESCENT LIGHTING (SURFACE MOUNTED)
- ⊕ INCANDESCENT LIGHTING (WALL MOUNTED)
- ⊕ FLUORESCENT LIGHT FIXTURE
- ⊕ INCANDESCENT LIGHTING (PENDANT)
- ⊕ RECESSED LIGHTING HI-HATS, ETC.
- ⊕ VAPOR PROOF
- EX EXISTING TO REMAIN
- REL EXISTING TO BE RELOCATED
- R EXISTING TO BE REMOVED

CEILING OR WALL MOUNTED SMOKE DETECTOR 110V, INTERCONNECTED W/ BATT. BACKUP. SMOKE DETECTOR SHALL COMPLY WITH NFPA 72, AND FBCR 314.2
 CEILING OR WALL MOUNTED CARBON MONOXIDE DETECTOR WITH BATT. BACKUP - SHALL COMPLY WITH FBC 916

FIRE PROTECTION DEVICES TO BE SUBMITTED UNDER SEPARATE DRAWINGS

ALL ELECTRICAL WORK TO COMPLY WITH FBC 2020 7th EDITION

CONTRACTOR TO VERIFY EXISTING CIRCUIT. NOTIFY ENGINEER IF ANY DISCREPANCY OCCUR

ELECTRICAL SCOPE OF WORK

- NEW LIGHTING AND OUTLETS AS SHOW ON PLANS
- EXISTING ELECTRICAL PANEL TO REMAIN

UL CAJ1233 FIRE PENETRATION TO BE USED, REFER TO PAGE A1 FOR MORE INFO

75% OF THE FIXTURES SHALL BE ENERGY EFFICIENT

ALL NEW OR REPLACED OUTLETS SHALL BE TAMPER RESISTANT

EXISTING LIGHTING PLAN

SCALE: 1/4" = 1'-0"

REVISION / DATE

7900 Nova Drive
 Davie, FL 33324
 (954) 612-9591
 daniel@peareng.com

Peare Engineering
 Mechanical - Electrical - Plumbing

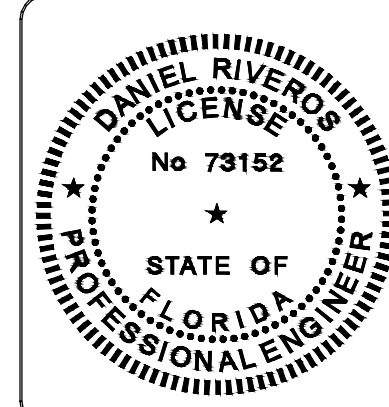
INTERIOR RENOVATION FOR:
 EXISTING CONDO
 50 South Point Dr
 Unit 2803
 Miami Beach, FL 33139

DRAWN BY:	HD
CHECKED BY:	DR
JOB NUMBER:	21-040
DATE:	6/11/2021

DANIEL RIVEROS
 FLORIDA PE #73152

ELECTRICAL PLAN

E-1



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FLORIDA PE #73152

ELECTRICAL PANEL AND NOTES

E-2

- ### ELECTRICAL NOTES
- GENERAL. ALL ELECTRICAL WORK SHALL CONFORM TO THE FLORIDA BUILDING CODE 2020 (7th ED.), CHAPTER 27; ALSO COMPLY WITH NEC 2017; NFPA70 AND; LOCAL CODES.
 - ALL MATERIALS SHALL BEAR UNDERWRITERS LABORATORIES LABEL OR BE U.L. LISTED.
 - WORKMANSHIP SHALL BE IN ACCORDANCE WITH GOOD TRADE PRACTICES.
 - ALL EXCAVATING AND BACKFILLING REQUIRED FOR ELECTRICAL WORK SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL SUBCONTRACTOR.
 - THE FOLLOWING CONDUCTORS AND RACEWAYS SHALL BE INSTALLED: A. ALL CONDUCTORS TO BE COPPER WITH 90 DEGREE C RATED INSULATION TYPE THHN B. EXTERIOR RACEWAYS, BOXES, COVER PLATES, ETC. SHALL BE WEATHERPROOF CONST. THE FOLLOWING DEVICES SHALL BE USED: A. ALL DEVICES SHALL BE RATED FOR THE RATING OF THE CIRCUIT BREAKER SERVING SUCH DEVICES. *20 AMP BREAKERS SHALL SERVE 20 AMP DEVICES, ETC.
 - PROVIDE GFI DEVICES AS INDICATED.
 - DISCONNECT SWITCHES SHALL BE SQUARE D, GENERAL DUTY CLASS 3130, OR APPROVED EQUAL PRODUCT. PROVIDE TYPE R ENCLOSURE FOR EXTERIOR SERVICE AND TYPE 1 ENCLOSURE FOR INTERIOR SERVICE. D. STANDARD DEVICES ARE AS FOLLOWS (PASS & SEYMOUR OR EQUAL). *20A SWITCHES - 20A SERIES. *COVER PLATES - STANDARD WHITE. OVERHEAD ELECTRIC CONDUCTOR CLEARANCES, HORIZONTAL AND VERTICAL SHALL BE MAINTAINED.
 - BATHROOM, KITCHEN, GARAGE AND EXTERIOR RECEPTACLES SHALL BE EQUIPPED WITH GROUND FAULT INTERRUPTERS.
 - ELECTRICAL INSTALLATION DESIGN IS IN COMPLIANCE AS SET FORTH BY THE STATE OF FLORIDA MODEL ENERGY EFFICIENCY CODES.
 - SMOKE DETECTORS SHALL BE HARD WIRED (110 VOLT) TO A NON-SWITCHABLE KITCHEN OR BATHROOM LIGHTING CIRCUIT AND SHALL NOT BE CONNECTED ONTO THE LOAD SIZE OF A GROUND INTERRUPTOR. SID SHALL BE INTERCONNECTED & BATTERY BACK-UP.
 - VERIFY EXACT LOCATION OF ELECTRICAL OUTLETS AND LIGHTS PRIOR TO EXECUTION OF ROUGH-IN WORK.
 - ALL RACEWAYS AND NON-CURRENT CARRY METAL ENCLOSURES SHALL BE MECHANICALLY AND ELECTRICALLY GROUNDED.
 - ALL RACEWAYS IN FINISHED AREAS SHALL BE CONCEALED AND ALL OUTLETS IN FINISHED AREAS SHALL BE CONCEALED AND MOUNTED FLUSH WITH FINISHED WALLS.
 - ALL WORK SHALL BE RIGIDLY MOUNTED AND SUPPORTED.
 - ELECTRICAL OUTLETS, RECEPTACLES AND LIGHTING BELOW BASE FLOOD ELEVATION SHALL BE INSTALLED AT HIGHEST PERMITTED ELEVATION AND SHALL BE INSTALLED ON A SEPARATE INDEPENDENT CIRCUIT FROM THOSE IN HABITABLE AREAS.
 - NO APPLIANCE OUTLETS SHALL BE INSTALLED BELOW THE BASE FLOOD ELEVATION.
 - MAIN CIRCUIT BREAKER SHALL BE INSTALLED ABOVE THE BASE FLOOD ELEVATION.
 - USE ARC FAULT BREAKERS IN ALL ROOMS, HALLS AND CLOSETS.
 - ALL NEW 15 AND 20 AMPS OUTLETS SHALL BE TAMPER RESISTANT.

TAMPER-RESISTANT RECEPTACLES AS PER NEC 406.12

TAMPER-RESISTANT RECEPTACLES IN DWELLING UNITS, ALL NONLOCKING TYPE 15A AND 20A, 125V RECEPTACLES IN THE FOLLOWING AREAS OF A DWELLING UNIT [210.52] MUST BE LISTED AS TAMPER-RESISTANT.

- WALL SPACE — 210.52(A)
- SMALL-APPLIANCE CIRCUIT — 210.52(B)
- COUNTERTOP SPACE — 210.52(C)
- BATHROOM AREA — 210.52(D)
- OUTDOORS — 210.52(E)
- LAUNDRY AREA — 210.52(F)
- GARAGE AND OUTBUILDINGS — 210.52(G)
- HALLWAYS — 210.52(H)

EX: RECEPTACLES IN THE FOLLOWING LOCATIONS ARE NOT REQUIRED TO BE TAMPER-RESISTANT:

- RECEPTACLES LOCATED MORE THAN 5 1/2 FT ABOVE THE FLOOR.
- RECEPTACLES THAT ARE PART OF A LUMINAIRE OR APPLIANCE.
- A RECEPTACLE LOCATED WITHIN DEDICATED SPACE FOR AN APPLIANCE THAT IN NORMAL USE ISN'T EASILY MOVED FROM ONE PLACE TO ANOTHER.
- NONGROUNDING RECEPTACLES USED FOR REPLACEMENTS AS PERMITTED IN 406.4(D)(2)(A).

ARC FAULT NOTE

ALL 15A OR 20A, 120V BRANCH CIRCUITS IN DWELLING UNITS SUPPLYING OUTLETS IN FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DEN, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, KITCHEN, OR SIMILAR ROOMS OR AREAS MUST BE PROTECTED BY A LISTED AFCI DEVICE OF THE COMBINATION TYPE (AS PER THE 2017 NEC 210.12)

PANEL: "A" (NEW)

CKT No	POLE	CB	TRIP	KW	LOAD DESCRIPTION	WIRE	COND. SIZE	NOTES
1	2	TQL	50	10.0	RANGE	4#6	1"	1
3			*					
5	2	TQL	40	8.0	OVEN	4#6	1"	1
7								
9	2	TQL	40	5.6	HP			EXIST
11								EXIST
13	1	TQL	20	1.0	DISHWASHER(GFI ON BREAKER)	3#12		1 AFCI
15	1	TQL	20	1.0	DISPOSAL	3#12		1 AFCI
17	1	TQL	20	1.2	REFRIGERATOR (GFI ON BREAKER)	3#12		1 AFCI
19	2	TQL	30	5.0	DRYER			EXIST
21								EXIST
23	1	TQL	20	1.5	WASHER			EXIST
25	1	TQL	20	1.0	HYDROMASSAGE			EXIST
27	1	TQL	20	1.0	MICROWAVE	3#12		AFCI
29	1	TQL	20	1.2	REFRIGERATOR	2#14		AFCI
31								
33								
35								
37								
39								
41								
42								
TOTAL CONNECTED				46.0				

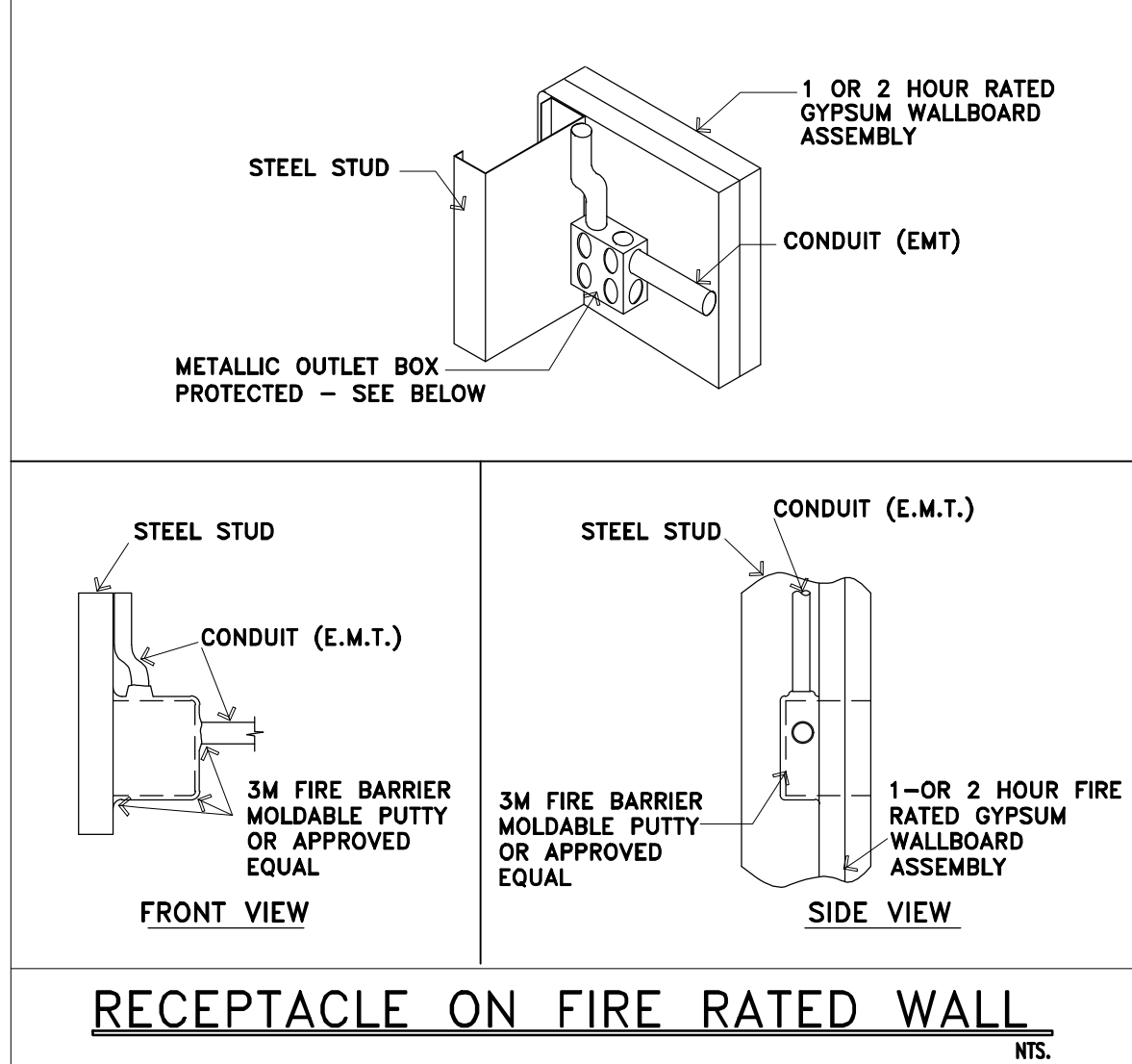
LOAD CALCULATIONS	KW	AMPS
FIRST 10.0 KW @ 100%	10.0	
A/C SYSTEM @ 100%	5.6	
NEXT 30.4 KW @ 40%	12.1	
TOTAL LOAD =		27.7 115.23

* DISCOUNT APPLIED AS PER TABLE 220.55

CKT No	POLE	CB	TRIP	KW	LOAD DESCRIPTION	WIRE	COND. SIZE	NOTES
2	1	TQL	20	()	BATH GFI	3#12		AFCI
4	1	TQL	20	1.5	SMALL APPLIANCES	3#12		AFCI
6	1	TQL	20	1.5	SMALL APPLIANCES	3#12		AFCI
8	1	TQL	15	()	BEDROOM OUTLETS	2#14		AFCI
10	1	TQL	15	()	BEDROOM LIGHTS	2#14		AFCI
12	1	TQL	15	()	BEDROOM OUTLETS	2#14		AFCI
14	1	TQL	15	()	BEDROOM LIGHTS	2#14		AFCI
16	1	TQL	15	()	MASTER BEDROOM OUTLETS	2#14		AFCI
18	1	TQL	15	()	MASTER BEDROOM LIGHTS	2#14		AFCI
20	1	TQL	15	()	MASTER BATHROOM	2#14		AFCI
22	1	TQL	20	6.5	GRAL LIGHTS AND RECEPTACLES	3#12		AFCI
24	1	TQL	20	()	GRAL LIGHTS AND RECEPTACLES	3#12		AFCI
26	1	TQL	20	()	GRAL LIGHTS AND RECEPTACLES	3#12		AFCI
28								
30								
32								
34								
36								
38								
40								
42								

VOLTAGE: 120/240 1Ø 3W BUS: 150 AMPS
MOUNTING: FLUSH MAINS: MLO
AIC: 22,000 A.I.C. POLES: 42

NOTES:
1. CONTRACTOR SHALL VERIFY ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER
2. ALL LIVING SPACES CIRCUITS TO BE ARC FAULT PROTECTED
3. ALL SMOKE DETECTORS SHALL BE INTERCONNECTED AND IN AN ARC-FAULT CIRCUIT



FIRE PROTECTION DEVICES TO BE SUBMITTED UNDER SEPARATE DRAWINGS

ALL ELECTRICAL WORK TO COMPLY WITH FBC 2020 7th EDITION

CONTRACTOR TO VERIFY EXISTING CIRCUIT. NOTIFY ENGINEER IF ANY DISCREPANCY OCCUR