## ELECTRICAL
NEC 2023

INTERIOR REMODELING & ALTERATION LEVEL 2
FLORIDA BUILDING CODE 2023 8th. EDITION

### NOTES:

1.–NOT ANY APPLIANCE LOAD HAS BEEN ADDED.
2.–ALL SMOKE DETECTORS SHALL BE 120 V. W/BATTERY BACKUP, INTERCONNECTED AND LOCATED 36" MINIMUM AWAY FROM ANY A/C GRILLE OR REGISTER.
3.–LIGHTS IN SHOWER MUST COMPLY WITH 410.D.
4.–90% OF ALL FIXTURES/LAMPS SHALL BE ENERGY EFFICIENT AS PER FBC 2023 8th EDITION R404.1.
5.–IF HAVE TO RELOCATED ANY ELECTRIC FIRE ALARM SOUND, THE SHOP–DRAWINGS FOR IT WILL BE PROVIDED.

## SCOPE OF WORK
ELECTRICAL

INTERIOR REMODELING & ALTERATION LEVEL 2
FLORIDA BUILDING CODE 2023 8th. EDITION
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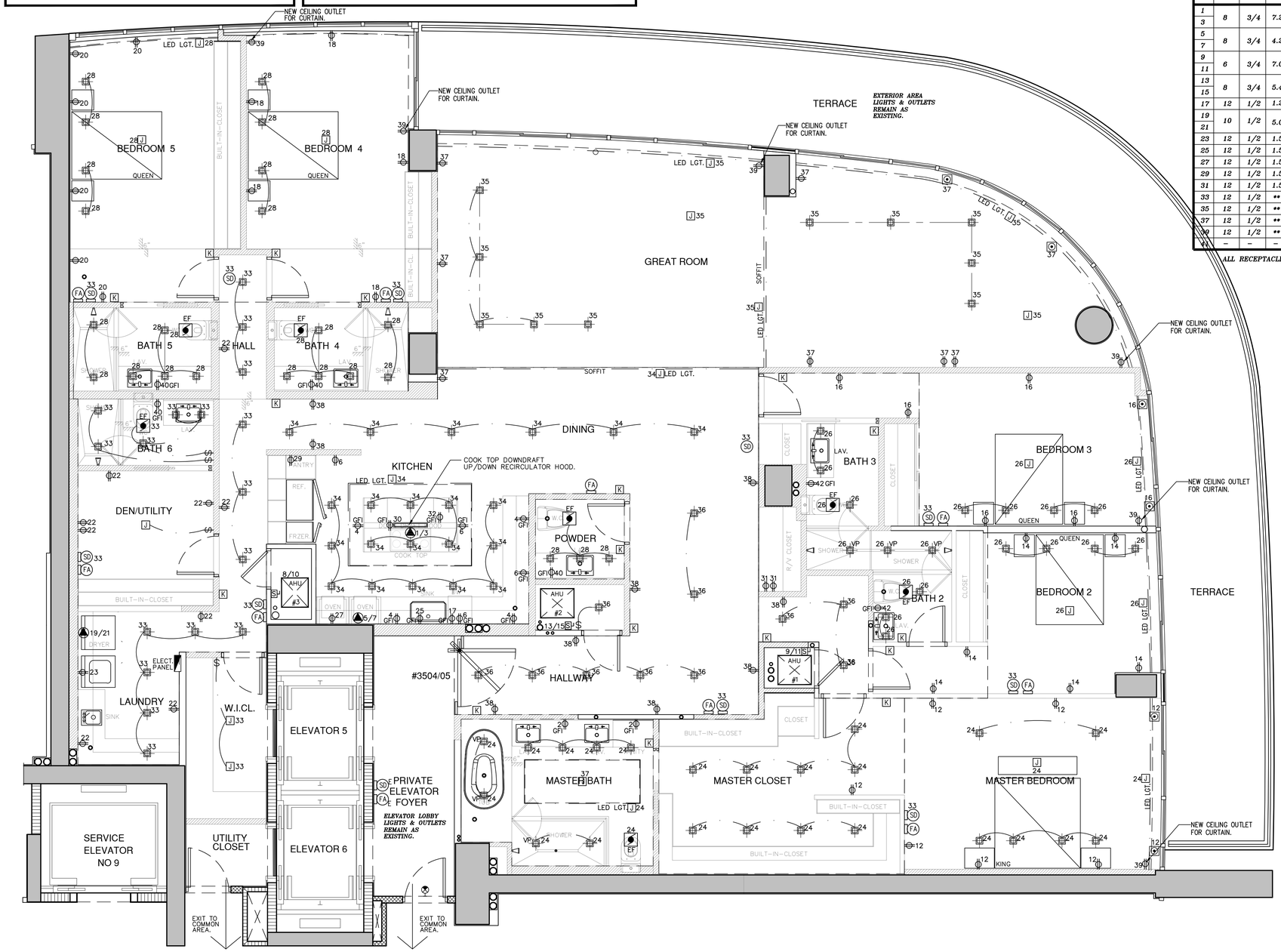
### GENERAL SCOPE OF WORK:

–RENEW EXISTING ELECTRICAL PANEL, LESS THAN FEEDER, AS PER PLAN.
–PROVIDE AND INSTALL NEW LIGHTING AS PER RENEWED CIRCUITS AS PER PLAN.
–PROVIDE AND INSTALL NEW OUTLETS AS PER NEW CODES, AS PER PLAN.
–ALL NEW RECESS LIGHTS AND STRIPS LIGHTS ARE TYPE LED, SELECTED BY DESIGNER.
–PROVIDE AND INSTALL NEW (OR RELOCATE) SWITCHES AS PER PLAN.
–PROVIDE AND INSTALL NEW LED STRIP LIGHTS ON SOFFIT EDGES AS PER PLAN.
–PROVIDE AND INSTALL NEW CEILING OUTLETS FOR COURTAINS AS PER PLAN.
–THE KITCHEN CABINETS, INCLUDING ISLE WILL BE RENEWED AND KITCHEN APPLIANCES WILL BE NEW, INCLUDED RECESSED DOWN LIGHTINGS OVER CEILING.
–NEW/RELOCATED KITCHEN APPLIANCES HAS A NEW POWER OUTLETS AS SHOWN.
–THE SMALL APPLIANCES CIRCUITS WILL BE RELOCATED AS PER PLAN.
–BATHS EXHAUST FAN WILL BE REPLACED AT SAME LOCATIONS AS PER PLANS.
–EXISTING AIR CONDITIONING MACHINES REMAIN THE SAME.




## CONDO/UNIT 3504–05 ELECTRICAL PLAN
SCALE: 1/4"= 1'–0"

EXISTING MAIN FEEDER: 3# 3/0 THWN CU, 1# 3 THWN(G) IN 2"ø COND. AIC:10,000 3504–05

| PNL | AMPS | VOLTAGE | CKTS | WIRE | PHASE | MAIN | MOUNT | MANUFACTURER | TYPE |
|---|---|---|---|---|---|---|---|---|---|
| A | 200 | 120/240 | 42 | 3 | 1/60 | LUGS | FLUSH | SIEMENS OR EQ. | LOAD CENTER |

| CKT No. | WIRE | COND INCH | LOAD | CKT BKR POLE | CKT BKR AMPS | SERVING | CKT No. | WIRE | COND INCH | LOAD | CKT BKR POLE | CKT BKR AMPS | SERVING |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 8 | 3/4 | 7.2 | 2 | 40 | COOK TOP | 2 | 12 | 1/2 | ** | 1 | 20 | BATH RECEP. AFCI |
| 3 | | | | | | | 4 | 12 | 1/2 | 1.5 | 1 | 20 | SMALL APP. AFCI |
| 5 | 8 | 3/4 | 4.2 | 2 | 40 | WALL OVEN | 6 | 12 | 1/2 | 1.5 | 1 | 20 | SMALL APP. AFCI |
| 7 | | | | | | | 8 | 6 | 3/4 | 7.0 | 2 | 60 | HP–3 |
| 9 | 6 | 3/4 | 7.0 | 2 | 60 | HP–1 | 10 | | | | | | |
| 11 | | | | | | | 12 | 12 | 1/2 | ** | 1 | 20 | MST. BEDR. OUTLET AFCI |
| 13 | 8 | 3/4 | 5.4 | 2 | 40 | HP–2 | 14 | 12 | 1/2 | ** | 1 | 20 | BEDROOM 2 OUTLET AFCI |
| 15 | | | | | | | 16 | 12 | 1/2 | ** | 1 | 20 | BEDROOM 3 OUTLET AFCI |
| 17 | 12 | 1/2 | 1.2 | 1 | 20 | DISHWASHER AFCI | 18 | 12 | 1/2 | ** | 1 | 20 | BEDROOM 4 OUTLET AFCI |
| 19 | 10 | 1/2 | 5.0 | 2 | 30 | DRYER | 20 | 12 | 1/2 | ** | 1 | 20 | BEDROOM 5 OUTLET AFCI |
| 21 | | | | | | | 22 | 12 | 1/2 | ** | 1 | 20 | DEN RECEPTACLES AFCI |
| 23 | 12 | 1/2 | 1.5 | 1 | 20 | WASHER AFCI | 24 | 12 | 1/2 | ** | 1 | 20 | MST. BEDR. LIGHTS AFCI |
| 25 | 12 | 1/2 | 1.5 | 1 | 20 | DISPOSAL AFCI | 26 | 12 | 1/2 | ** | 1 | 20 | BEDR. 2–3 LIGHTS AFCI |
| 27 | 12 | 1/2 | 1.5 | 1 | 20 | MICRO/OVEN AFCI | 28 | 12 | 1/2 | ** | 1 | 20 | BEDR. 4–5 LIGHTS AFCI |
| 29 | 12 | 1/2 | 1.5 | 1 | 20 | REFRIGERATOR AFCI | 30 | 12 | 1/2 | 1.5 | 1 | 20 | COOK TOP HOOD AFCI |
| 31 | 12 | 1/2 | 1.5 | 1 | 20 | AUDIO/VIDEO AFCI | 32 | 12 | 1/2 | 1.5 | 1 | 20 | WINE COOLER AFCI |
| 33 | 12 | 1/2 | ** | 1 | 20 | LIGHTS, AFCI | 34 | 12 | 1/2 | ** | 1 | 20 | LIGHTS, AFCI |
| 35 | 12 | 1/2 | ** | 1 | 20 | LIGHT, GR. R. AFCI | 36 | 12 | 1/2 | ** | 1 | 20 | LIGHTS, AFCI |
| 37 | 12 | 1/2 | ** | 1 | 20 | REC. GR. R. AFCI | 38 | 12 | 1/2 | ** | 1 | 20 | RECEPTACLES AFCI |
| 39 | 12 | 1/2 | ** | 1 | 20 | COURT. REC. AFCI | 40 | 12 | 1/2 | ** | 1 | 20 | BATH RECEP. AFCI |
| 41 | – | – | – | – | – | SPACE | 42 | 12 | 1/2 | ** | 1 | 20 | BATH RECEP. AFCI |

** ALL RECEPTACLES WILL BE NEW AND SHALL BE TAMPER RESISTANT.

### LEGEND

- ELECTRICAL OUTLET
- 1–WAY SWITCH
- 3–WAY SWITCH
- WALL MOUNTED LIGHT
- ELECTRICAL FLOOR OUTLET
- ELECTRICAL OUTLET
- ELECTRICAL PANEL
- LIGHT RECEPTACLES
- ELECT. DISCONNECT
- SMOKE DETECTOR AT CEILING
- SMOKE DETECTOR AT WALLS
- FIRE ALARM (SOUND) AT CEILING
- FIRE ALARM (SOUND) AT WALLS
- EXHAUST FAN
- JUNCTION BOX
- KEY PAD SWITCH
- RECESS LIGHT SQUARE
- MOTION SENSOR SWITCH
- EXIT SIGN
- DATA–CABLE
- TV SET
- RECCESS 2x16W FLUOR LIGHTS

### ELECTRIC PANEL LOAD CALCULATIONS 3504–05

| | |
|---|---|
| SQUARE FEET OF CONDITION SPACE | 4277 |
| GENERAL LIGHTING AT 3 W./S.F. | 12831 |
| SMALL APPLIANCES CIRCUITS | 2 |
| SMALL APPLIANCES LOAD | 3000 |
| COOKTOP | 7200 |
| OVEN | 4200 |
| DRYER | 5000 |
| MICROWAVE | 1500 |
| REFRIGERATOR | 1200 |
| WASHER | 1500 |
| DISHWASHER | 1200 |
| COOK TOP HOOD | 300 |
| WINE COOLER | 600 |
| CONNECTED LOAD WITHOUT A/C LOAD | 38531 |
| FIRST 10000 AT 100 % | 10000 |
| REST OF 28531 AT 40% | 11420 |
| A/C LOAD AT 100% | 19400 |
| TOTAL | 40820 |
| AT 240 VOLT = | 170.1 A. |

EXISTING MAIN BREAKER = 200 AMPS.

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George Freijo
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Date: 2024.08.13 14:42:38 -04'00'


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DATE

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COMBINE TWO UNITS WITH RENOVATIONS AND FINISHING FOR:
CONTINUUM 3504 3505 S LLC.
100 South Pointe Drive No 3504-05, FL 33039

| | |
|---|---|
| JOB No. | 2410 ROD |
| STARTED: | 07/24/24 |
| COMPLETED: | 08/09/24 |

REVISION

| No. | DESCRIPTION | DATE: |
|---|---|---|
| | | |

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