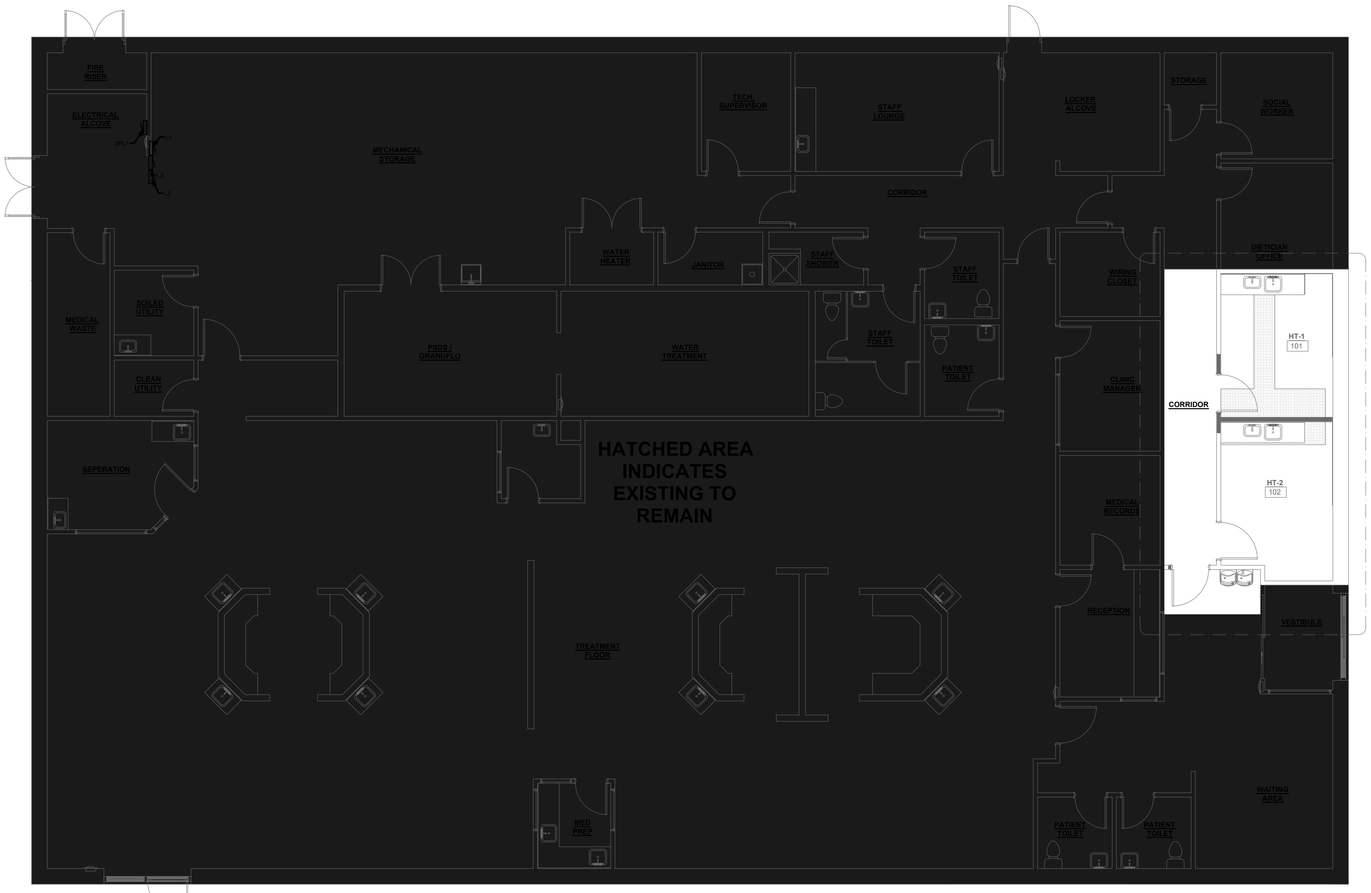


1 E-1 OVERALL FLOOR PLAN

N.T.S

## PROJECT NOTES:

1. THE SCOPE OF THIS PROJECT IS TO PROVIDE POWER TO A RENOVATION OF AN EXISTING UNIT. ALL EXISTING SERVICES ARE TO REMAIN.
2. ALL MATERIALS AND INSTALLATION, AS A MINIMUM, ARE TO CONFORM WITH THE NATIONAL ELECTRIC CODE (NEC 2020), FLORIDA BUILDING CODE (FBC 2023), 8TH EDITION, AND THE LATEST EDITIONS OF THE LOCAL CODES AND ORDINANCES, INCLUDING ALL AMENDMENTS TO THE N.E.C. EQUIPMENT, WHERE APPLICABLE, WILL BE LISTED WITH THE UNDERWRITERS LABORATORIES, INC. QUALITY AND WORKMANSHIP ESTABLISHED BY DRAWINGS AND SPECIFICATIONS ARE NOT TO BE REDUCED BY THE ABOVE MENTIONED CODES.
3. ALL GROUNDING AND BONDING MUST BE IN COMPLIANCE WITH NEC ARTICLE 250 AND AHJ.
4. LOAD DATA IS BASED ON INFORMATION GIVEN TO THE ENGINEER AT THE TIME OF DESIGN.
5. ALL ELECTRICAL WORK FOR FABRICATED EQUIPMENT SHALL BE COMPLETELY WIRED BY THE EQUIPMENT MANUFACTURER TO A JUNCTION BOX OR PULL BOX, AND ALL ELECTRICAL WORK FROM PANEL BOARDS TO BE BY THE ELECTRICAL CONTRACTOR.
6. TYPEWRITTEN CIRCUIT INDEX SHALL BE AFFIXED INSIDE SURFACE OF PANEL BOARD DOOR, CLEARLY INDICATING AREA AND LOAD SERVED BY EACH BRANCH CIRCUIT
7. ELECTRICAL CONTRACTOR SHALL FURNISH ALL ELECTRICAL MATERIALS TO COMPLETE THIS PROJECT.
8. ELECTRICAL CONTRACTOR SHALL VERIFY ALL HVAC EQUIPMENT BEFORE RUNNING CIRCUITS. CONSULT MECHANICAL PLANS OR EQUIPMENT TAGS.
9. ALL CONDUCTORS SHALL BE THHN/THWN TYPE. UNLESS OTHERWISE CONDUCTOR SIZE NOTED ON THE PLANS SHALL BE 2#12 THWN COPPER AND 1#12 COPPER GROUND IN 1/2"C FOR 120V CIRCUITS AND 3#12 THWN COPPER AND 1#12 COPPER GROUND IN 1/2"C FOR 208V. MC CABLE CAN BE USED ONLY IN AREAS ALLOWED BY NEC ARTICLE 330.
10. EXTERIOR DISCONNECTS SHALL BE NEMA3R RATED. INTERIOR DISCONNECTS SHALL BE NEMA1 RATED. ALL DISCONNECTS SHALL BE HEADY DUTY TYPE.
11. ALL RECEPTACLES SHALL BE TAMPER RESISTANT RECEPTACLES PER NEC 2020 ARTICLE 406.12.

## LIGHTING NOTES:

1. ALL EMERGENCY LIGHTING SHALL HAVE INTERNAL BATTERY BACKUP. ALL EXIT SIGNS ARROWS TO POINT TOWARDS CLOSEST BUILDING EXIT. EXIT AND EMERGENCY LIGHTING SHALL BE CONNECTED ON THE SAME CIRCUIT OF THE ROOM THAT IS SERVICING AND ALSO AHEAD OF ALL SWITCHES.
2. ALL LIGHTING EQUIPMENT SHALL BE U.L. APPROVED. ELECTRICAL CONTRACTOR TO PROVIDE TEMPORARY LIGHTING AND POWER AS REQUIRED FACILITATING THE WORK DURING CONSTRUCTION, AS WELL AS ACQUIRING ALL PERMITS AND PROGRESS OF INSPECTIONS.
3. ALL ROOM LIGHTING CONTROLS SHALL COMPLY PER THE FLORIDA BUILDING CODE 2023 ENERGY CONSERVATION CHAPTER 4 SECTION C405. AUTOMATIC TIME SWITCH CONTROLS SHALL BE INSTALLED TO CONTROL LIGHTING IN ALL AREAS OF THE BUILDING.
4. INTERIOR FIXTURES SHALL BE CONNECTED VIA LIGHTING CONTROL SYSTEM CIRCUITING. PLEASE CONSULT LIGHTING DISTRIBUTOR FOR LIGHTING CONTROL DETAILS.
5. EXTERIOR LIGHTS SHALL BE CONTROLLED VIA PHOTO-SENSOR/ASTRONOMICAL CLOCK. THEY SHALL AUTOMATICALLY TURN ON AT DUSK AND OFF AT DAWN. EXTERIOR LIGHTING MAY ALSO BE REDUCED AFTER CLOSING BUSINESS IF THERE IS NO DANGER OR SECURITY ISSUE.
6. LIGHTING FUNCTIONAL TEST IS REQUIRED ONCE SYSTEM IS INSTALLED PER FBC 2023 8TH EDITION ENERGY CONSERVATION SECTION 408.3.1.

## LUMINAIRE SCHEDULE

| CALLOUT | SYMBOL | LAMP | DESCRIPTION | BALLAST | MOUNTING | MODEL | INPUT WATTS | VOLTS | QUANTITY |
|---|---|---|---|---|---|---|---|---|---|
| L-2 | | (1) 80W LED | LITHONIA 2x4 LED | ELECTRONIC | RECESSED | 2-VT8-332-MVOLT GEB10PS | 80 | 120V 1P 2W | 2 |
| L-2A | | (1) 45W LED | LITHONIA 2'X2' LED | ELECTRONIC | CEILING | 2-AVT8-317-MVOLT GEB10PS | 45 | 120V 1P 2W | 3 |
| L-2AE | | (1) 45W LED | LITHONIA 2'X2' LED EMERGENCY | ELECTRONIC | CEILING | 2-AVT8-317-MVOLT GEB10PS-EL | 45 | 120V 1P 2W | 1 |
| L-2E | | (1) 85W LED | LITHONIA 2x4 LED EMERGENCY | ELECTRONIC | CEILING | 2-VT8-332-MVOLT GEB10PS -EL | 85 | 120V 1P 2W | 1 |
| L-12 | | (1) 3W LED | EMERGENCY EXIT SIGN | ELECTRONIC | CEILING | LE-S-W-2-R-120 | 3 | 120V 1P 2W | 1 |

N=NEW , E= EXISTING, R= RELOCATED

## SWITCH SCHEDULE

| CALLOUT | SYMBOL | DESCRIPTION | QUANTITY |
|---|---|---|---|
| OS | $ OS | OCUPANCY SENSOR SWITCH | 2 |

## RECEPTACLE SCHEDULE

| CALLOUT | SYMBOL | VOLTS | FEATURES | NOTE 1 |
|---|---|---|---|---|
| GFCI | | 120V 1P 2W | GND | DUPLEX RECEPTACLE 120V. 20A WITH GROUND FAULT INTERRUPTING DEVICE |
| STND | | 120V 1P 2W | GND | DUPLEX RECEPTACLE 120V. 20A |

## LOW VOLTAGE SCHEDULE

| CALLOUT | SYMBOL | DESCRIPTION | QUANTITY |
|---|---|---|---|
| Computer Outlet | | 2-CAT6 | 6 |
| TV2 | TV | TELEVISION, RJ45/HDMI/COAX | 4 |

Columbia County Building Department
Plans Reviewed for Code Compliance
State of Florida

PREPARED BY

EPD ELECTRICAL POWER DESIGNS

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PE #60205 CA #27385

ISSUE REVISIONS

| No. | Date | Description | By |
|---|---|---|---|
| | | | |

CLIENT

BINGHAM ARCHITECTURE

PROJECT

MC LAKE CITY WEST CLINIC

ADDRESS

WEST US-90 BROWN RD. LAKE CITY, FL 32024

SHEET NAME

PROJECT NOTES

JOB # E26-033 | BY ZMA

ISSUE DATE

02.26.26

SCALE

1/4"=1'-0"

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SHEET

E-1

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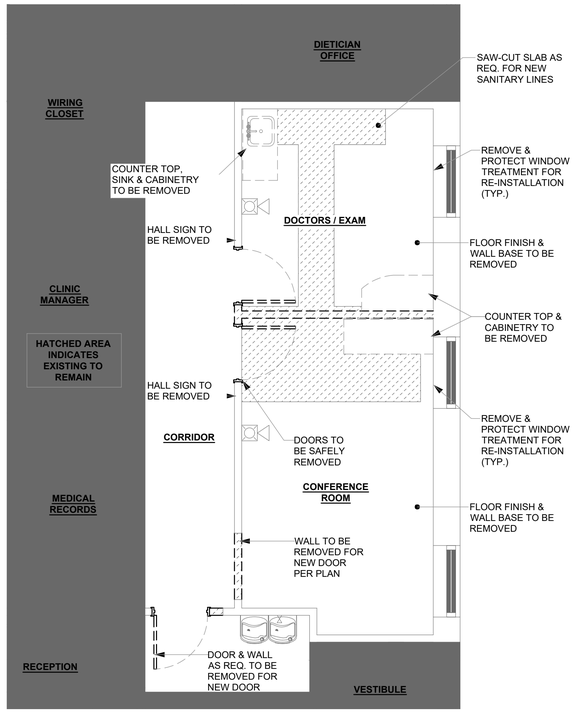
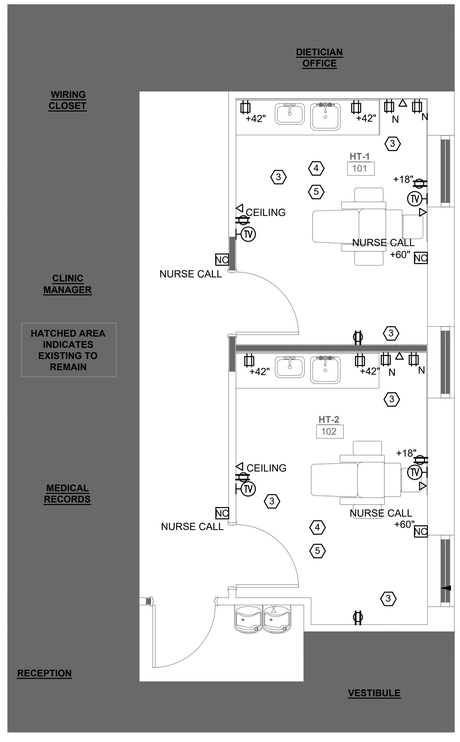
## KEY POWER NOTES:

1. EMERGENCY/EXIT LIGHTS SHALL BE CONNECTED TO THE SAME LIGHTING CIRCUIT FOR THAT AREA, AHEAD OF ALL SWITCHES.
2. NEW LIGHTING CIRCUIT TO BE RECONNECTED TO EXISTING CIRCUIT AVAILABLE IN THAT LOCATION.
3. NEW RECEPTACLE CIRCUITS ARE TO BE RECONNECTED TO EXISTING CIRCUIT AVAILABLE IN THAT LOCATION.
4. 2 DEDICATED CIRCUITS PER ROOM FOR FUTURE EQUIPMENT.
5. CONNECT PER NEC517.13(A)(B). ALL BRANCH CIRCUITS SERVING PATIENT CARE AREAS SHALL BE PROVIDED WITH EFFECTIVE GROUND FAULT CURRENT PATH BY INSTALLATION IN A METAL RACEWAY SYSTEM, OR A CABLE HAVING METALLIC ARMOR OR SHEATH ASSEMBLY.



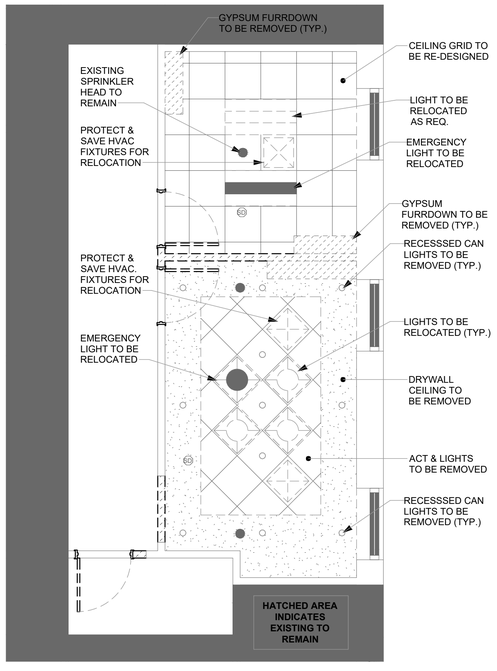

1 E-2 DEMO POWER PLAN

1/4"=1'-0"



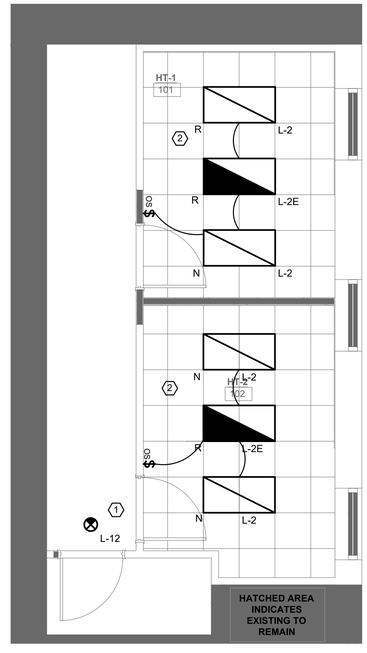

2 E-2 NEW POWER PLAN

1/4"=1'-0"




3 E-2 DEMO LIGHTING PLAN

1/4"=1'-0"




4 E-2 NEW LIGHTING PLAN

1/4"=1'-0"


PREPARED BY

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PE #60205 CA #27385


ISSUE REVISIONS

| No. | Date | Description | By |
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CLIENT

BINGHAM ARCHITECTURE

PROJECT

MC LAKE CITY WEST CLINIC

ADDRESS

WEST US-90 BROWN RD. LAKE CITY, FL 32024

SHEET NAME

POWER PLAN

| JOB # | BY |
|---|---|
| E26-033 | ZMA |

ISSUE DATE

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E-2


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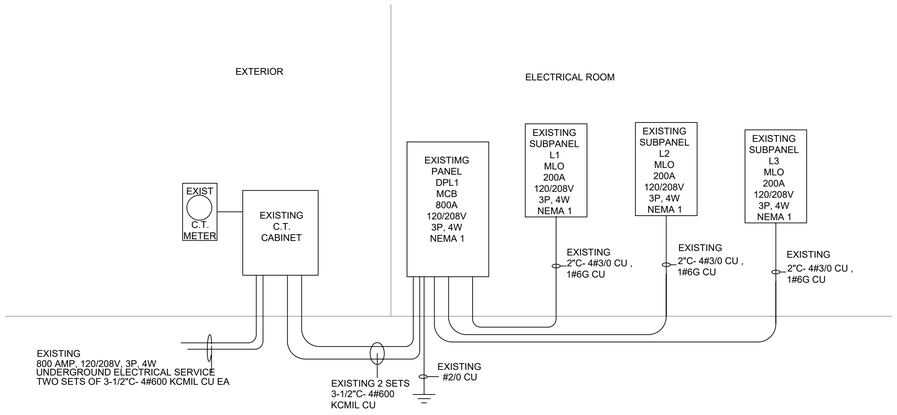
## RISER GENERAL NOTES:

1. ALL GROUND ELECTRODES, CONDUCTORS AND COMPLETE GROUNDING SYSTEM MUST BE DONE IN COMPLIANCE WITH NEC STD #250 AND AHJ.
2. CONTRACTOR SHALL VISIT SITE AND BECOME FAMILIAR WITH THE WORK BEFORE BIDDING ON THIS PROJECT.
3. FAULT CURRENT WAS CALCULATED AT 20820 AMPS FOR A LOCAL TRANSFORMER. VERIFY WITH LOCAL ELECTRIC COMPANY AND NOTIFY ENGINEER IF DIFFERENT.
4. ALL EXTERIOR EQUIPMENT MUST BE RATED NEMA 3R OR BETTER.
5. CONSULT AND WORK WITH LOCAL ELECTRIC FOR FIELD LOCATIONS. NOTIFY ENGINEER WITH ANY CHANGES.




1 E-3 RISER DIAGRAM

N.T.S.

## FAULT CURRENT SCHEDULE

| DEVICE | FAULT | AIC RATING | L-N VOLTS | UTILITY | | | FED FROM | | | | FEEDER | | | | | | DIRECTLY CONNECTED MOTOR LOAD | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | FAULT | X | R | DEVICE | FAULT | X | R | SIZE | X / 1000' | R / 1000' | LENGTH | X | R | FAULT | X | R |
| DPL1 | 16,257 | 42,000 | 120V | 16,257 | 0.007108 | 0.001989 | UTIL | 20,820 | 0.005652 | 0.00113 | (2)#600kcmil | 0.0195 | 0.0115 | 75' | 0.0015 | 0.0009 | | | |
| L1 | 16,164 | 22,000 | 120V | 16,164 | 0.007138 | 0.002043 | DPL1 | 16,257 | 0.007108 | 0.001989 | #3/0 | 0.042 | 0.077 | 8" | 0 | 0.0001 | | | |
| L2 | 15,986 | 22,000 | 120V | 15,986 | 0.007194 | 0.002145 | DPL1 | 16,257 | 0.007108 | 0.001989 | #3/0 | 0.042 | 0.077 | 2' | 0.0001 | 0.0002 | | | |
| L3 | 15,811 | 22,000 | 120V | 15,811 | 0.007249 | 0.002248 | DPL1 | 16,257 | 0.007108 | 0.001989 | #3/0 | 0.042 | 0.077 | 3'-4" | 0.0001 | 0.0003 | | | |

## VOLTAGE DROP SCHEDULE

| DEVICE | FEEDER | | BRANCH CIRCUIT | | TOTAL VOLTAGE DROP |
|---|---|---|---|---|---|
| | VOLTAGE DROP | WIRE SIZE | MAX VOLTAGE DROP | WIRE SIZE | |
| DPL1 | 0% | (2)#600kcmil | - | - | 0% |
| L1 | 0% | #3/0 | - | - | 0% |
| L2 | 0% | #3/0 | - | - | 0% |
| L3 | 0% | #3/0 | - | - | 0% |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E-3


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