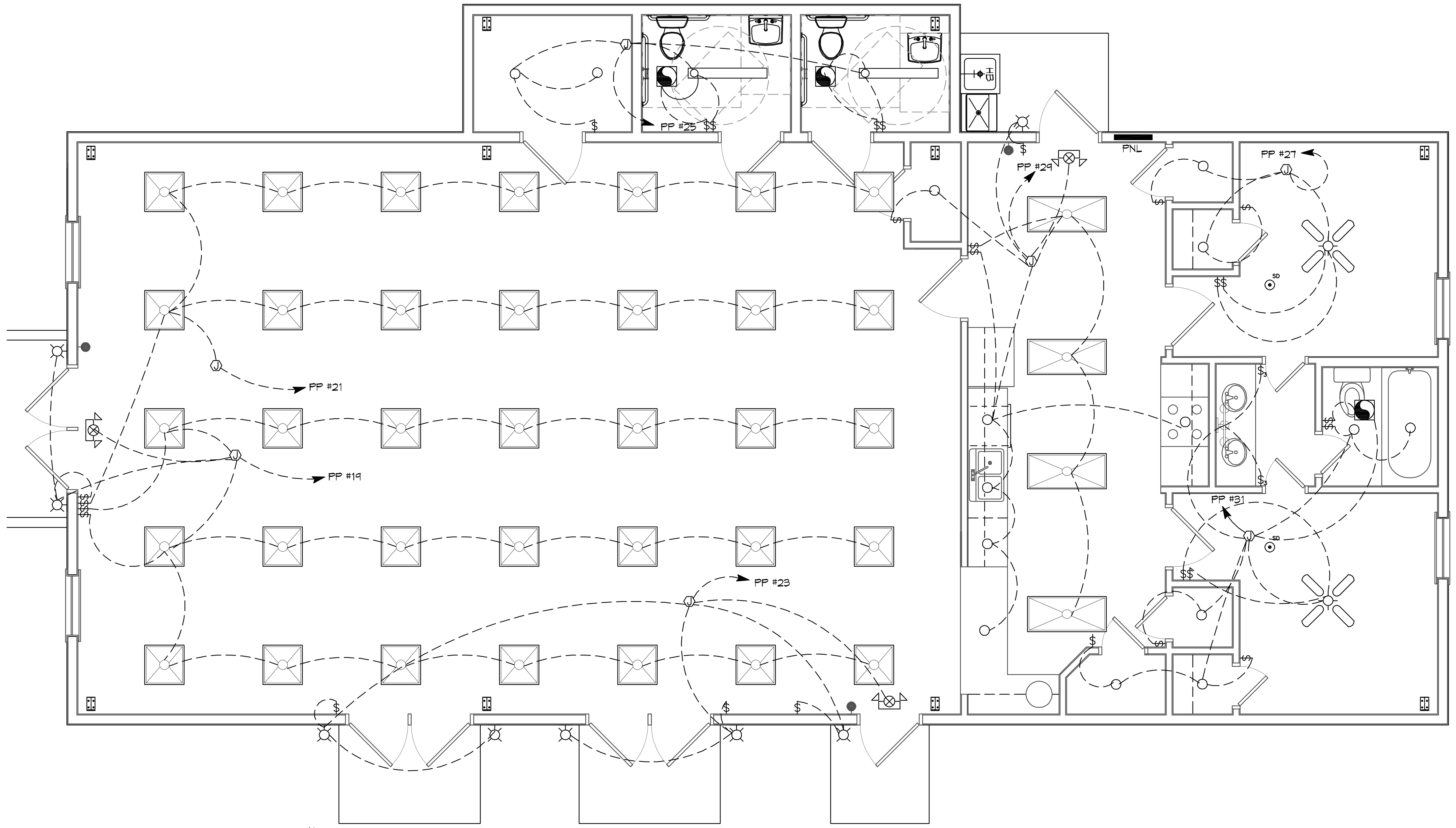
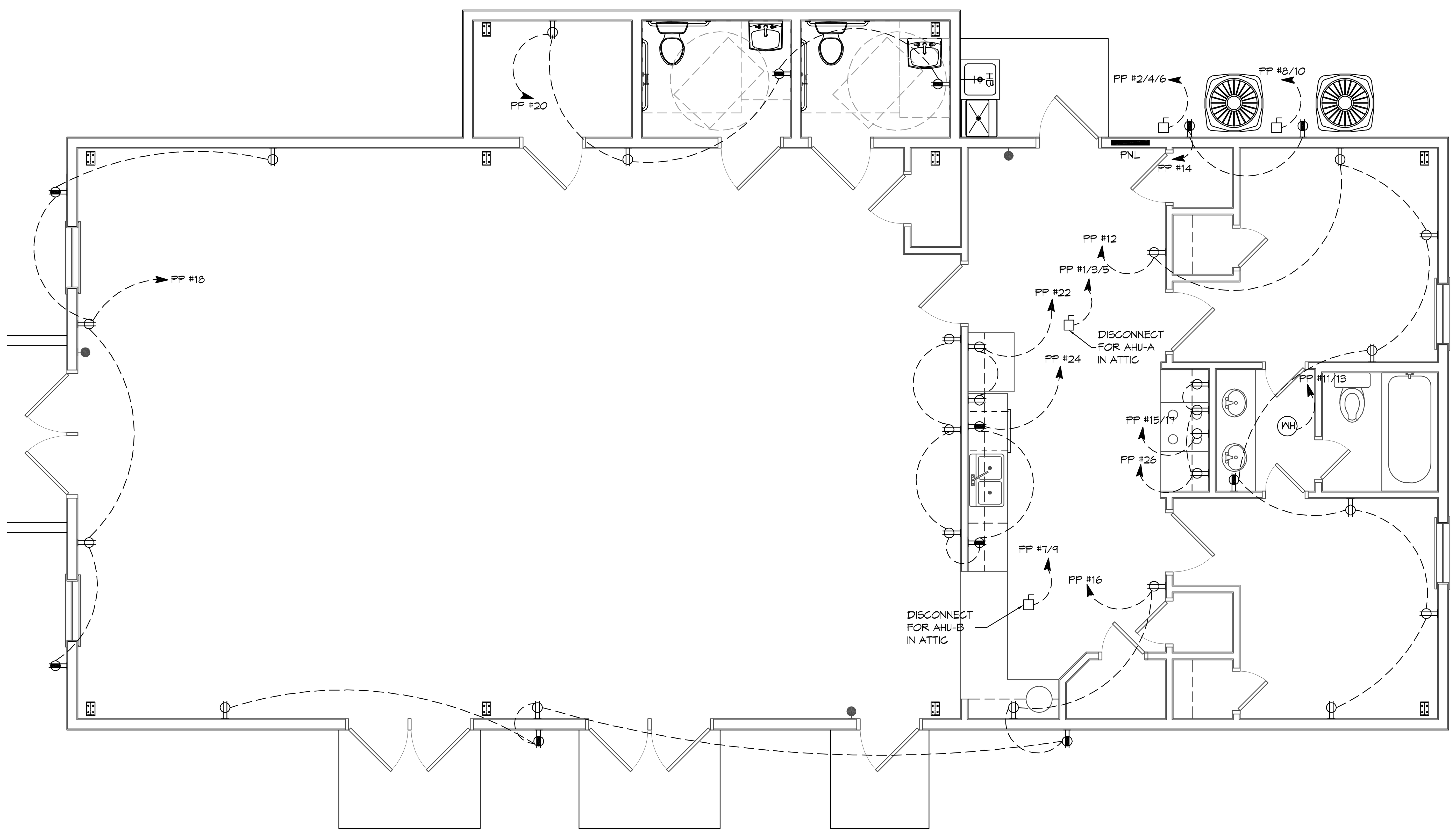
FILE NAME: J:\- CHURCHES\2370 - Our Lady Of Fatima Lacombe\Drawings\Current Drawings\E101.dwg PLOT DATE & TIME: Tuesday, July 7, 2020 11:20:39 AM




## 22 ELECTRICAL FLOOR PLAN-LIGHTING

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




## 21 ELECTRICAL FLOOR PLAN-POWER

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

## LIGHTING LEGEND

- EMERGENCY LIGHT FIXTURE
- EXIT LIGHT FIXTURE - CEILING MOUNTED
- WALL MOUNTED LED LIGHT
- 2X2 - FLUORESCENT
- 2X4 - FLUORESCENT
- 1X2 - FLUORESCENT (RESTROOMS)
- 6" RECESSED LED CAN LIGHT, IC-RATED
- ELECTRIC PANEL BOARD
- CIRCUIT HOME RUN
- $ LIGHT SWITCH 120V COMMERCIAL GRADE
- $D LIGHT SWITCH - DIMMER
- JUNCTION BOX
- EXHAUST FAN - SEE MECH
- 3 BLUB LED RESTROOM LIGHT FIXTURE.

## POWER LEGEND

SYMB

- STANDARD 120V DUPLEX RECEPTACLE, NEMA 5-2 OR 18" AFF (UNLESS OTHERWISE NOTED)
- SINGLE-POLE DEDICATED RECEPTACLE
- GFCI DUPLEX RECEPTACLE
- DEDICATED GFCI DUPLEX RECEPTACLE
- 240V RECEPTACLE - MOUNTED AT 30" AFF
- JUNCTION BOX
- WEATHER-PROOF GFCI DUPLEX RECEPTACLE MOUNTED AT 30" AFF (UNLESS OTHERWISE NOTED)
- STANDARD 120V DUPLEX RECEPTACLE - CEILING MOUNTED
- SINGLE POLE RECEPTACLE
- WALL MOUNTED DATA OUTLET
- QUAD OUTLET

## GENERAL POWER NOTES

1. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE GOVERNING ELECTRICAL CODE AND ALL OTHER INSPECTION DEPARTMENTS HAVING JURISDICTION. OBTAIN CERTIFICATES OR APPROVAL WHERE REQUIRED. ELECTRICAL CONTRACTOR SHALL VERIFY ALL WIRE AND CONDUIT SIZES FOR MECHANICAL EQUIPMENT TO BE INSTALLED.
2. ALL MATERIALS FURNISHED SHALL BE NEW AND SHALL BE U.L. LISTED.
3. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALE DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION OF ALL LIGHTING FIXTURES, RECEPTACLES AND TELEPHONE OUTLETS, ETC. SHALL BE DETERMINED BY ACTUAL CONDITIONS IN THE FIELD.
4. PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND WITH OTHER CONTRACTORS WHOSE WORK MAY AFFECT THIS INSTALLATION.
6. ELECTRICAL CONTRACTOR SHALL COORDINATE INCOMING ELECTRICAL SERVICE WITH UTILITY COMPANY AND INCLUDE IN HIS BID ALL CHARGES AND FEES INCURRED IN MODIFICATIONS.
7. ELECTRICAL CONTRACTOR SHALL COORDINATE THE TELEPHONE INSTALLATION WITH THE TELEPHONE COMPANY AND THE GENERAL CONTRACTOR.
8. ELECTRICAL CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS, PLASTER, PARTITIONS, WALLS, ETC. AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL MAKE SUCH CHANGES IN THE WORK AS DIRECTED BY THE ARCHITECT, AS WELL AS TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS AND DETAILS.
9. PERFORM TEST REQUIRED BY THE OWNER OR THE ENGINEER IN CONNECTION WITH THE OPERATION OF THE ELECTRICAL SYSTEM IN THE BUILDING. ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARD OF THE IEEE AND THE NATIONAL ELECTRICAL CODE.
10. MINIMUM CONDUCTOR SIZE SHALL BE #12, 600V INSULATION. MINIMUM SIZE CONDUIT SHALL BE ¾" ELECTRICAL METALLIC TUBING (EMT) FOR INTERIOR USE, ¾" RIGID ALUMINUM FOR EXTERIOR USE ABOVE GRADE AND 1" SCHEDULE 40 PVC, BURIED A MINIMUM OF 18" FOR NON-VEHICLUAR TRAFFIC AREAS, FOR CONDUITS BELOW GRADE . EMT SHALL BE USED WITH METAL STUD CONSTRUCTION. USE NMC IN WOOD CONSTRUCTION. 6 FT LENGTH MC CABLE IS ALLOWED ABOVE DROPPED CEILING. INTERIOR FITTINGS SHALL BE CAST WHERE EXPOSED ON WALLS, AND EXTERIOR FITTINGS SHALL BE CAST BOXES WITH NEMA 3R COVER(S).
11. CONTRACTOR SHALL INSTALL WIRING AND OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
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14. BONDING AND GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:230-63, NFPR 250-23, 250-71 & 250-72.
15. GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70:250-23b.
16. FUSES SHALL BE ITT CLASS K5, 250 VOLT, 200,000 AMP INTERRUPTING CAP.
17. PROVIDE SERVICES OF A FIRE/SMOKE DETECTION AND ALARM COMPANY TO DESIGN AND INSTALL ALARM SYSTEM TO MEET REQUIREMENTS OF THE STATE FIRE MARSHALL AND THE FIRE DISTRICT.
18. EXTERIOR LIGHTING SHALL BE SHADED OR INWARDLY DIRECTED IN SUCH A MANNER SO THAT NO DIRECT LIGHTING OR GLARE IS CAST BEYOND THE PROPERTY LINE. THE INTENSITY OF SUCH LIGHTING SHALL NOT EXCEED ONE FOOT CANDLE AS MEASURED AT THE ABUTTING PROPERTY LINE.
19. ALL ELECTRICAL, MECHANICAL AND PLUMBING PENETRATING FIRE PARTITIONS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.)
20. VERIFY ELECTRICAL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.

## GENERAL LIGHTING NOTES

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4. WHEN SPECIFIC LIGHT FIXTURE HAS BEEN SPECIFIED IN THE FIXTURE SCHEDULE, ELECTRICAL CONTRACTOR SHALL PROVIDE COMPLETE ASSEMBLY INCLUSIVE ALL PARTS AND HARDWARE TO INSURE PROPER FUNCTIONING FIXTURE.
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7. ALL CONDUCTORS SHALL BE COPPER.
8. WHERE CONDUCTOR SIZES ARE NOTED ON DRAWINGS, THAT WIRE SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS OTHERWISE NOTED.
9. MOUNTED LIGHT SWITCHES 48" AFF UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.
8. WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG TYPE BOX UNDER ONE COVER PLATE. ALL GANGED SWITCHES SHALL HAVE A COMMON SEAMLESS FACEPLATE. EACH MULTI-GANGED BOX SHALL BE NO MORE THAN SIX (6) SWITCHES WIDE. WHERE MORE THAN SIX (6) SWITCHES ARE SHOWN AT ONE (1) LOCATION, ADDITIONAL MULTI-GANGED BOXES SHALL BE STACKED VERTICALLY AND THE WIDTH OF THE MULTI-GANGS SHALL BE AS EVEN AS POSSIBLE.
9. EACH DIMMER SWITCH SHALL HAVE A WATTAGE RATING 25% HIGHER THAN THE TOTAL WATTAGE OF AL LIGHTS TO BE CONTROLLED BY THE DIMMER. DIMMER SIZES 600, 1000, 1500, AND 2000 WATTS, LUTRON NOVA T-STAR. WHERE SWITCHES ARE GANGED WITH DIMMERS, THE SWITCHES SHALL ALSO BE LUTRON NOVA T-STAR. FLUORESCENT AND LOW VOLTAGE DIMMERS SHALL BE LUTRON NOVA T-STAR.
10. WHERE FLUORESCENT FIXTURES ARE SHOWN TO BE DIMMED, THE FIXTURES SHALL HAVE DIMMING TYPE BALLASTS WHICH ARE COMPATIBLE WITH THE SPECIFIED DIMMERS.
11. WHERE LED FIXTURES/LAMPS ARE SHOWN TO BE DIMMED, THE DIMMER SHALL BE COMPATIBLE WITH THE FIXTURE/LAMP SPECIFIED OR PROVIDED.
12. ALL EMERGENCY EXIT LIGHT FIXTURES SHALL HAVE 90 MINUTE BATTERY BACKUP WITH INTEGRAL TEST BUTTON AND SHALL BURN CONTINUOUSLY.
13. ALL FLUORESCENT FIXTURES THAT UTILIZE DOUBLE-ENDED LAMPS AND CONTAIN BALLASTS SHALL BE PROVIDED WITH A DISCONNECTING MEANS IN ACCORDANCE WITH NEC 410.73G.


DAMMON ENGINEERING, INC.
LOUISIANA & MISSISSIPPI
Chief Engineer: Brian Mistich, PE
554 Old Spanish Trail
Slidell, LA 70458
www.dammonengineering.com
info@dammonengineering.com
PH: 985.649.5832


| # | DESCRIPTION | DATE |
|---|---|---|

REVISIONS

SEAL:

MULTI PURPOSE BUILDING

# OUR LADY OF FATIMA

66110 VORTISCH ROAD
LACOMBE, LOUISIANA 70445

| JOB No: | 2370 | DATE: | 06-17-2020 |
|---|---|---|---|
| DRAWN BY: | RLD | CHECKED BY: | AEP |

The above drawings and specifications, designs and arrangements represented thereby are and shall remain the property of Dammon Engineering, and no part thereof shall be copied, disclosed to others, or used in connection with any work or project other than the specific project for which the have been prepared and developed without written consent of Dammon Engineering. Visual contact with these drawings or specifications shall constitute conclusive evidence of acceptance of these restrictions.

SHEET TITLE:
ELECTRICAL FLOOR PLAN

DRAWING NUMBER:
E101

FILE NAME: J:\~ CHURCHES\2370 – Our Lady Of Fatima Lacombe\Drawings\Current Drawings\E102 – Electric Circuit Panels & One-Line.dwg PLOT DATE & TIME: Tuesday, July 7, 2020 11:21:33 AM

# PANEL SCHEDULE

PANEL: P1
LOCATION: REAR WALL
FEEDER SOURCE: UTILITY

VOLTAGE: 208/120V, 200A, 3Φ, 4W MAIN BREAKER
ENCLOSURE: FLUSH MOUNTED W/ EQUIPMENT GND BAR SQUARE D, I-LINE PANELBOARD

| CKT NO | THHN WIRE SIZE | LOAD DESCRIPTION: LOCATION | BREAKER: AMP | BREAKER: POLE | LOAD (VA) | LOAD (VA) | BREAKER: POLE | BREAKER: AMP | LOAD DESCRIPTION: LOCATION | THHN WIRE SIZE | CKT NO |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 3500 | 3500 | | | | | 2 |
| 3 | #8 | AIR HANDLING UNIT - A | 40 | 3 | 3500 | 3500 | 3 | 40 | CONDENSER UNIT - A | #8 | 4 |
| 5 | | | | | 3500 | 3500 | | | | | 6 |
| 7 | #10 | AIR HANDLING UNIT - B | 30 | 2 | 1800 | 1500 | 2 | 20 | CONDENSER UNIT - B | #12 | 8 |
| 9 | | | | | 1800 | 1500 | | | | | 10 |
| 11 | #10 | WATER HEATER | 30 | 2 | 1800 | 1440 | 1 | 20 | RECEPTACLES | #12 | 12 |
| 13 | | | | | 1800 | 320 | 1 | 20 | RECEPTACLES, AC CONDENSERS | #12 | 14 |
| 15 | #8 | RANGE | 50 | 2 | 2500 | 1080 | 1 | 20 | RECEPTACLES, FRONT | #12 | 16 |
| 17 | | | | | 2500 | 900 | 1 | 20 | RECEPTACLES, LEFT | #12 | 18 |
| 19 | #12 | FLUORESCENT LIGHTING | 20 | 1 | 2100 | 720 | 1 | 20 | RECEPTACLES, REAR | #12 | 20 |
| 21 | #12 | FLUORESCENT LIGHTING | 20 | 1 | 1400 | 1500 | 1 | 20 | RECEPTACLES, KITCHEN COUNTER | #12 | 22 |
| 23 | #12 | EXTERIOR LIGHTING, FRONT | 20 | 1 | 500 | 1500 | 1 | 20 | RECEPTACLES, KITCHEN COUNTER | #12 | 24 |
| 25 | #12 | LIGHTING, BATHROOMS | 20 | 1 | 400 | | 1 | 20 | MICROWAVE, RECEPTACLES | #12 | 26 |
| 27 | #12 | LIGHTING | 20 | 1 | 300 | | 1 | 20 | SPARE | | 28 |
| 29 | #12 | LIGHTING, KITCHEN | 20 | 1 | 1000 | | 1 | 20 | SPARE | | 30 |
| 31 | #12 | LIGHTING | 20 | 1 | 700 | | | | | | 32 |
| 33 | | | | | | | | | | | 34 |
| 35 | | | | | | | | | | | 36 |
| 37 | | | | | | | | | | | 38 |
| 39 | | | | | | | | | | | 40 |
| 41 | | | | | | | | | | | 42 |

SOLID NEUTRAL
NEUTRAL WIRE (W)

TOTAL CONNECTED LOAD (VA) = 50,060

AΦ = 16,340 BΦ = 17,080 CΦ = 16,640

GROUND BUS
GROUND WIRE (G)

# ELECTRICAL LOAD SUMMARY

C L E C O POWER COMPANY

PROJECT NAME: NEW BUILDING FPOR OUR LADY OF FATIMA

PROJECT ADDRESS: 66110 VORTISCH ROAD

CITY/TOWN: LACOMBE, LOUISIANA

INTENDED USER: OUR LADY OF FATIMA

REQ SERV: 208 V 3 PHASE 4 WIRES

SERV ENTR SIZE: 200 AMPS

HVAC TONNAGE: 10 TONS

LARGEST MOTOR: HP

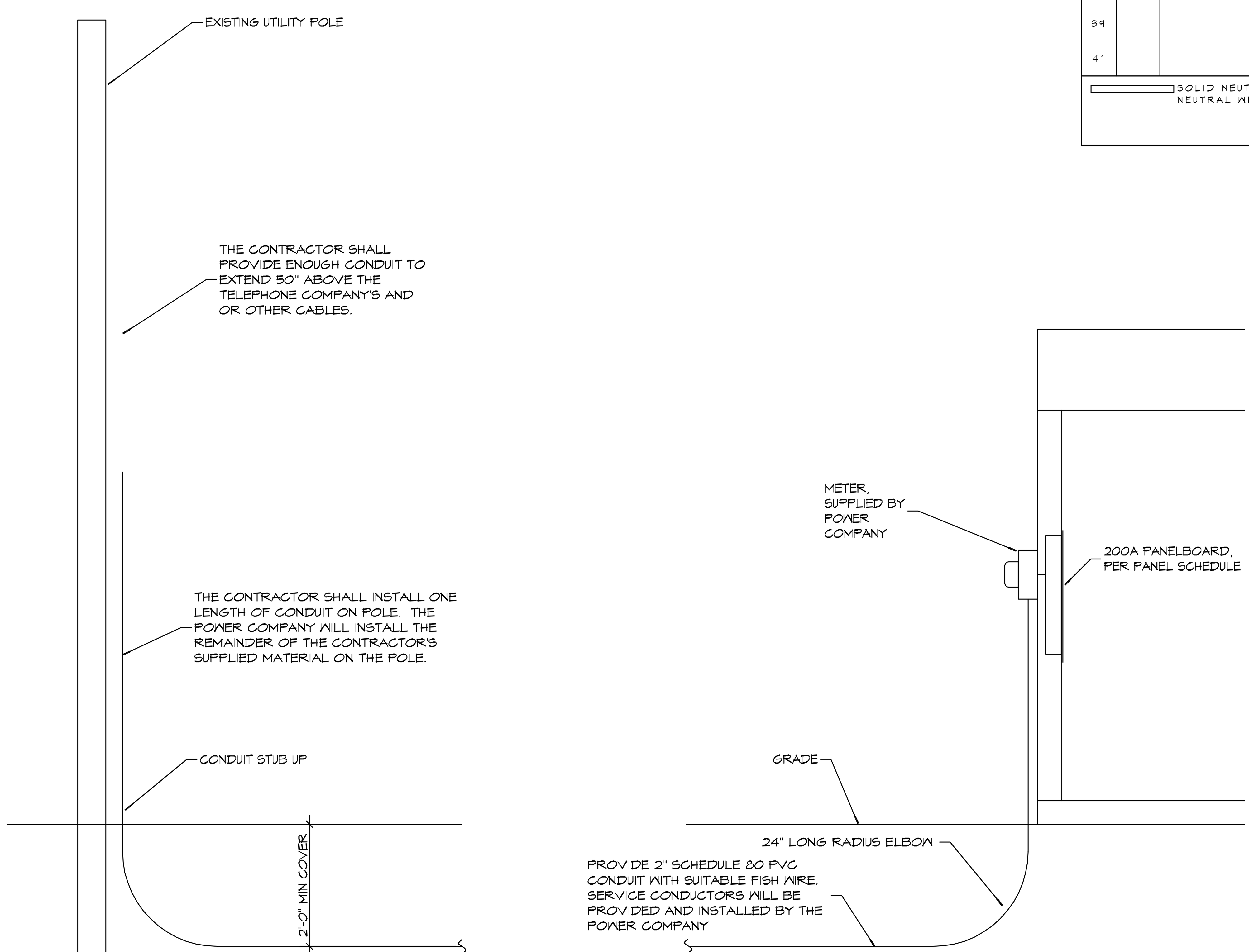
(NOTE: MOTORS ABOVE 20HP MAY REQUIRE REDUCED VOLTAGE STARTING AND ARE NEVER RECOMMENDED FOR USE W/ 120/240V, 1Φ, 3W SERVICE)

TOTAL BUILDING SQ FT: 2260 SF

INDIVIDUAL UNIT SQUARE FOOTAGE: SF (MULT OCCUPANCY)

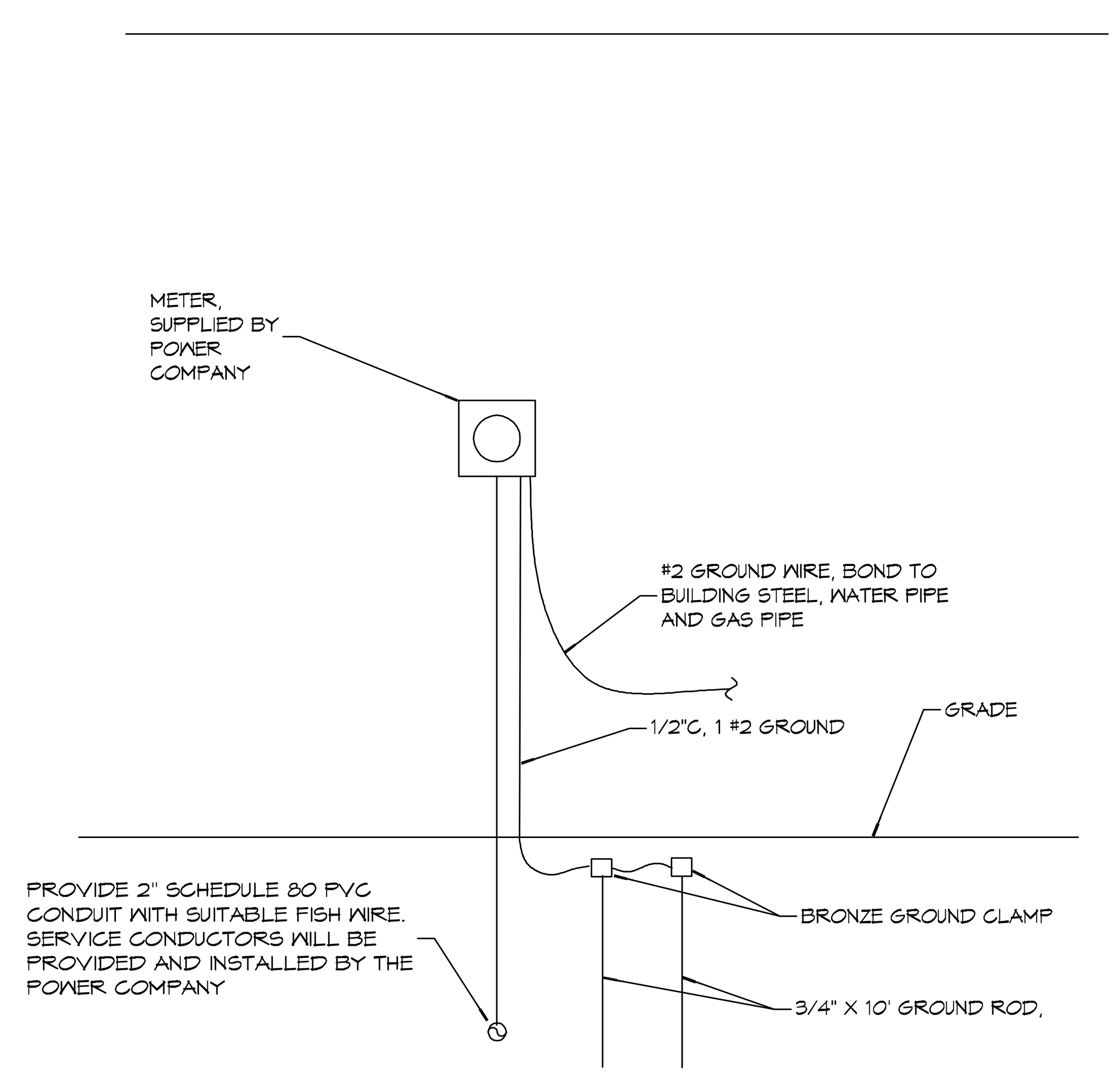
INDIVUDUAL UNIT DESIGNATION: (MULT OCCUPANCY)

| LOAD SOURCE | 1Φ-kVA | 3Φ-kVA | OR | 1Φ-kW | 3Φ-kW |
|---|---|---|---|---|---|
| BUILDING LIGHTING | 6.9 | | | | |
| ELECTRIC WATER HEATING | 3.0 | | | | |
| HEAT PUMPS | | 13.5 | | | |
| SUPPLEMENTAL HEAT SYSTEMS | | 14 | | | |
| AIR COND CONDENSING UNITS | 0 | | | | |
| ELEC HEATING (PRIMARY) - AHU's | 0 | | | | |
| COOKING | 5.0 | | | | |
| REFRIGERATION | 1.6 | | | | |
| RECEPTACLES (STANDARD) | 6.0 | | | | |
| RECEPTACLES (COMPUTER) | 0 | | | | |
| TOTAL MOTORS (EXCLUDE HVAC) | 0 | | | | |
| EXTERIOR LIGHTING | 0.5 | | | | |
| MISCELLANEOUS - CEILING FANS | 0 | | | | |
| OTHER (POOL EQUIPMENT, TENNANT) | 0 | | | | |




## RISER DIAGRAM

SCALE: NONE




## SERVICE ENTRANCE

SCALE: NONE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| # | DESCRIPTION | DATE |
|---|---|---|

REVISIONS

SEAL:

MULTI PURPOSE BUILDING
OUR LADY OF FATIMA
66110 VORTISCH ROAD
LACOMBE, LOUISIANA 70445

JOB No: 2370 DATE: 06-17-2020
DRAWN BY: RLD CHECKED BY: AEP


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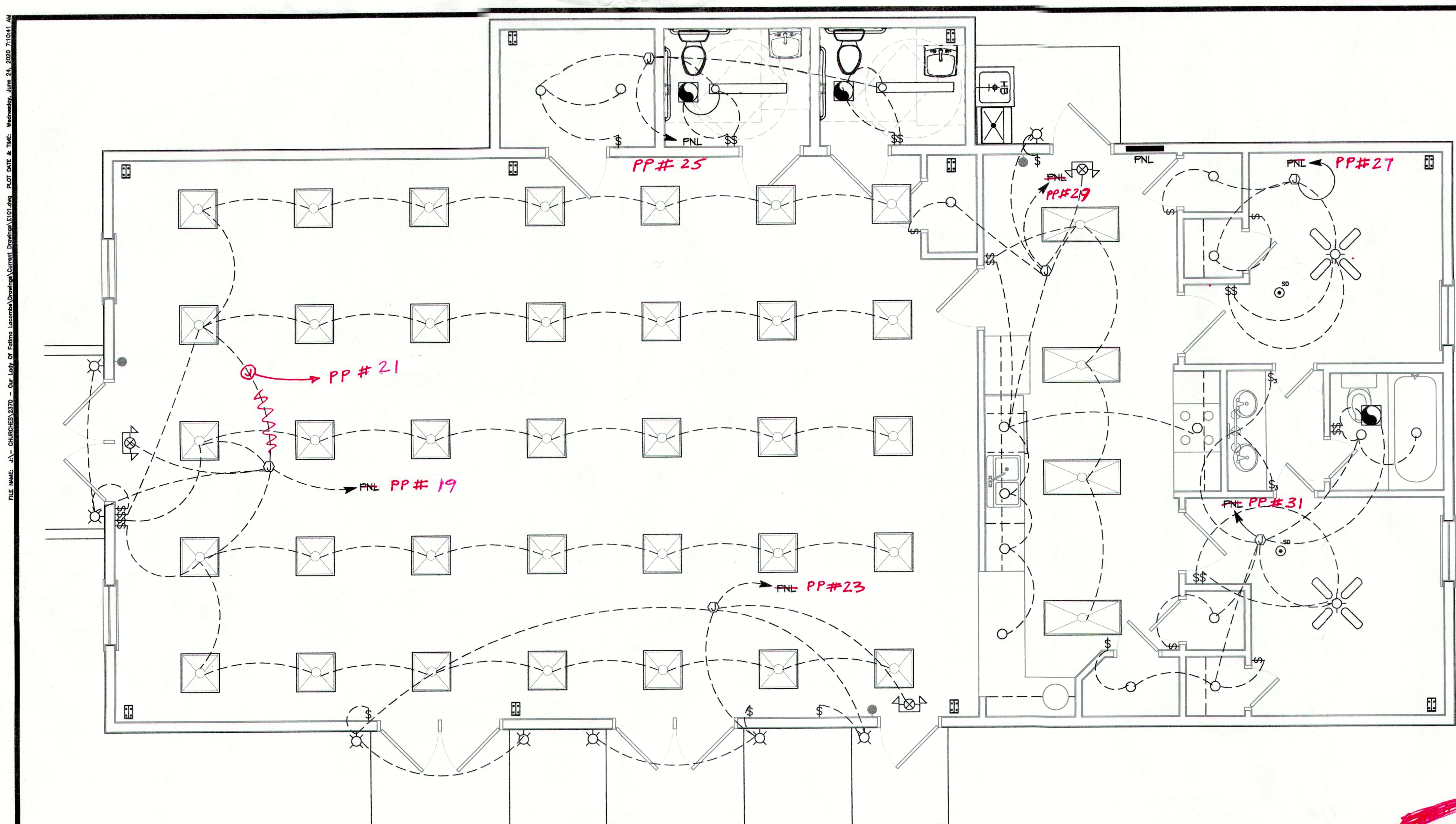
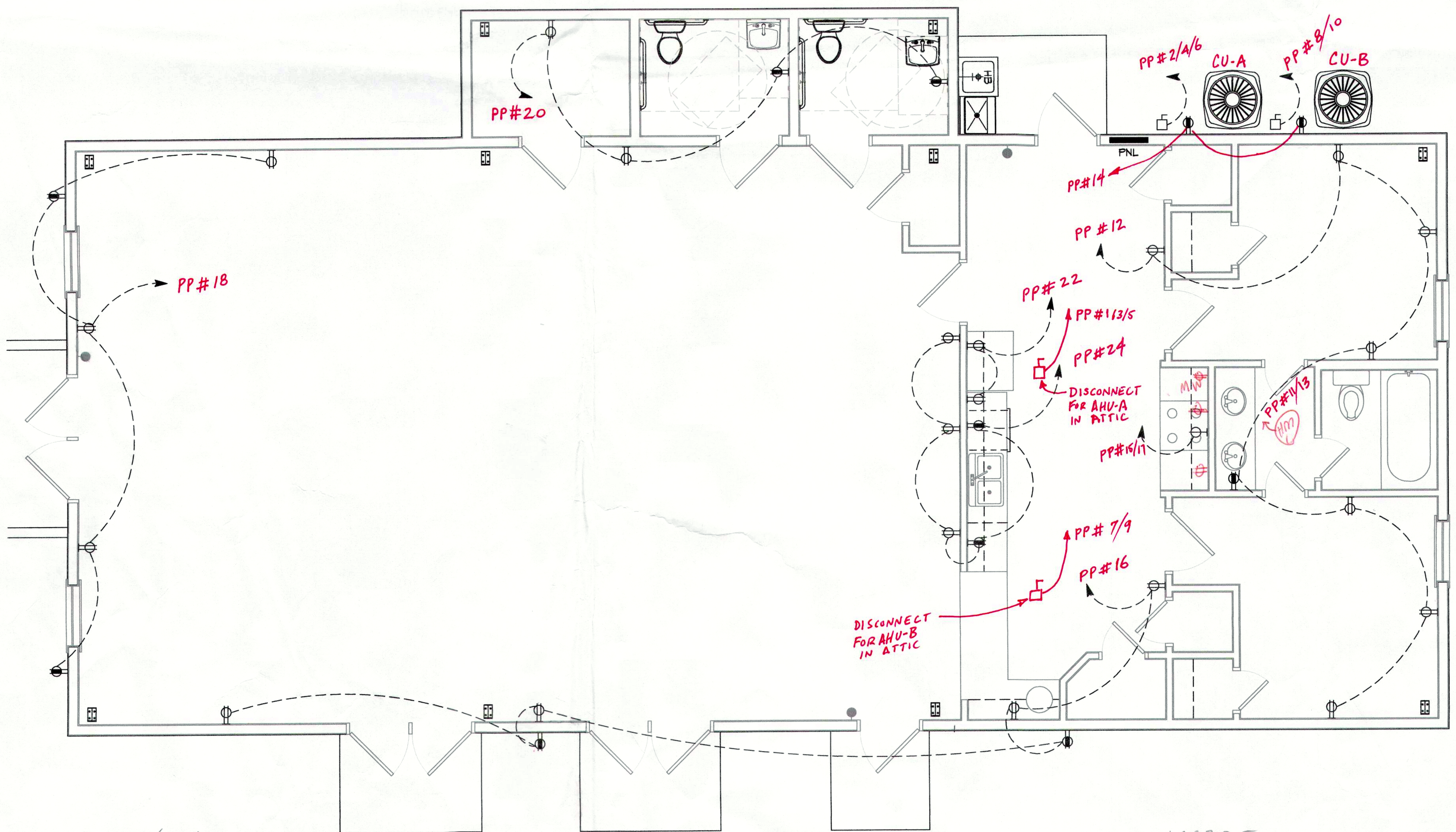
SHEET TITLE:
ELECTRICAL PANEL AND ONE LINE DIAGRAM

DRAWING NUMBER:
E102

SHEET No: 11 of 11




**22 ELECTRICAL FLOOR PLAN - LIGHTING**
SCALE: 1/4"=1'-0"




**21 ELECTRICAL FLOOR PLAN - POWER**
SCALE: 1/4"=1'-0"

AHUA = 37MCA 3ϕ 3P
AHUB = 24MCA 1ϕ 2P
CU-A = 34MCA 3ϕ 3P
CU-B = 15MCA 1ϕ 2P
STOVE = 50A 1ϕ 2P
WH = 30A 1ϕ 2P

3 #4/0 AWG
1 # 2 GROUND

## LIGHTING LEGEND

| | |
|---|---|
| EMERGENCY LIGHT FIXTURE | ELECTRIC PANEL BOARD |
| EXIT LIGHT FIXTURE - CEILING MOUNTED | CIRCUIT HOME RUN |
| WALL MOUNTED LED LIGHT | LIGHT SWITCH 120V COMMERCIAL GRADE |
| 2X2 - FLUORESCENT | LIGHT SWITCH - DIMMER |
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| 1X2 - FLUORESCENT (RESTROOMS) | EXHAUST FAN - SEE MECH |
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- STANDARD 120V DUPLEX RECEPTACLE, NEMA 5-2 OR 18" AFF (UNLESS OTHERWISE NOTED)
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8. WHERE CONDUCTOR SIZES ARE NOTED ON DRAWINGS, THAT WIRE SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS OTHERWISE NOTED.
9. MOUNTED LIGHT SWITCHES 48" AFF UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.
8. WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG TYPE BOX UNDER ONE COVER PLATE. ALL GANGED SWITCHES SHALL HAVE A COMMON SEAMLESS FACEPLATE. EACH MULTI-GANGED BOX SHALL BE NO MORE THAN SIX (6) SWITCHES WIDE. WHERE MORE THAN SIX (6) SWITCHES ARE SHOWN AT ONE (1) LOCATION, ADDITIONAL MULTI-GANGED BOXES SHALL BE STACKED VERTICALLY AND THE WIDTH OF THE MULTI-GANGS SHALL BE AS EVEN AS POSSIBLE.
9. EACH DIMMER SWITCH SHALL HAVE A WATTAGE RATING 25% HIGHER THAN THE TOTAL WATTAGE OF AL LIGHTS TO BE CONTROLLED BY THE DIMMER. DIMMER SIZES 600, 1000, 1500, AND 2000 WATTS, LUTRON NOVA T-STAR. WHERE SWITCHES ARE GANGED WITH DIMMERS, THE SWITCHES SHALL ALSO BE LUTRON NOVA T-STAR. FLUORESCENT AND LOW VOLTAGE DIMMERS SHALL BE LUTRON NOVA T-STAR.
10. WHERE FLUORESCENT FIXTURES ARE SHOWN TO BE DIMMED, THE FIXTURES SHALL HAVE DIMMING TYPE BALLASTS WHICH ARE COMPATIBLE WITH THE SPECIFIED DIMMERS.
11. WHERE LED FIXTURES/LAMPS ARE SHOWN TO BE DIMMED, THE DIMMER SHALL BE COMPATIBLE WITH THE FIXTURE/LAMP SPECIFIED OR PROVIDED.
12. ALL EMERGENCY EXIT LIGHT FIXTURES SHALL HAVE 90 MINUTE BATTERY BACKUP WITH INTEGRAL TEST BUTTON AND SHALL BURN CONTINUOUSLY.
13. ALL FLUORESCENT FIXTURES THAT UTILIZE DOUBLE-ENDED LAMPS AND CONTAIN BALLASTS SHALL BE PROVIDED WITH A DISCONNECTING MEANS IN ACCORDANCE WITH NEC 410.73G.

DAMMON ENGINEERING, INC.
LOUISIANA & MISSISSIPPI
Chief Engineer: Brian Mistich, PE
554 Old Spanish Trail
Slidell, LA 70458
www.dammonengineering.com
info@dammonengineering.com
PH: 985.649.5832

REVISIONS

| # | DESCRIPTION | DATE |
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SEAL:

MULTI PURPOSE BUILDING
OUR LADY OF FATIMA
66110 VORTISCH ROAD
LACOMBE, LOUISIANA 70445

| JOB No: | 2370 | DATE: | 06-17-2020 |
|---|---|---|---|
| DRAWN BY: | KJK | CHECKED BY: | KJK |

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SHEET TITLE:
ELECTRICAL FLOOR PLAN

DRAWING NUMBER:
E101