

C:\Work\Projects\23-47 St. Jude CC -- Parish Hall Addn\Elec\2347-E01.dwg 12/21/23 10:43:10 Rene's ASUS


ELECTRICAL SYMBOLS AND ABBREVIATIONS			NOTE: ALL SYMBOLS AND ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS																															
GENERAL NOTES		DRAWING/DETAIL REFERENCE																																
<div>1. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS OF ELECTRICAL CONSTRUCTION.</div> <div>2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF ALL CEILING MOUNTED DEVICES.</div> <div>3. REFER TO ARCHITECTURAL INTERIOR ELEVATION DRAWINGS, WHERE THE ARCHITECT HAS DRAWN SUCH ELEVATIONS, FOR THE LOCATIONS OF ALL WALL MOUNTED DEVICES.</div> <div>4. COORDINATE EXACT LOCATION OF ALL LIGHTING FIXTURES IN ELECTRICAL/MECHANICAL SPACES WITH EQUIPMENT, DUCTWORK AND PIPING.</div> <div>5. ALL RECEPTACLE OUTLETS LOCATED WITHIN 6'-0" OF A WET BAR OR SINK SHALL BE GFI TYPE. ALL RECEPTACLE OUTLETS LOCATED OUTDOORS SHALL BE WP/GFI. ALL RECEPTACLES SERVING VENDING MACHINES SHALL BE GFI TYPE. ALL RECEPTACLES SERVING ELECTRIC WATER COOLERS SHALL BE GFI TYPE. ALL RECEPTACLES IN KITCHEN AREAS SHALL BE GFI TYPE.</div> <div>6. ALL CONDUIT PENETRATIONS THROUGH THE ROOF TO SERVE MECHANICAL EQUIPMENT SHALL BE WITHIN THE ASSOCIATED EQUIPMENT ROOF CURB. COORDINATE LOCATIONS OF PENETRATIONS WITH THE MECHANICAL CONTRACTOR.</div> <div>7. PROVIDE THE TYPE OF MOUNTING HARDWARE AND TRIM NECESSARY FOR THE PROPER INSTALLATION OF SPECIFIED LIGHTING FIXTURES IN THE TYPE OF CEILING WHERE INSTALLED.</div> <div>8. PROVIDE ACCESS DOORS IN WALLS AND CEILINGS WHERE ACCESS TO CONCEALED ELECTRICAL BOXES AND DEVICES IS REQUIRED.</div> <div>9. EACH BRANCH AND FEEDER CIRCUIT SHALL BE PROVIDED WITH A GROUND CONDUCTOR SIZED PER ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE (NFPA 70), WHERE A CONDUIT CONTAINS MULTIPLE BRANCH CIRCUITS, PROVIDE A SINGLE GROUND CONDUCTOR UNLESS OTHERWISE NOTED.</div> <div>10. CONDUIT, LIGHT FIXTURES, AND OTHER COMPONENTS MAY BE SHOWN LARGER THAN ACTUAL SIZE. CONDUIT ROUTING IS SHOWN WITH AN EXAGGERATED SPACING FOR CLARITY. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL CONTRACTORS TO ENSURE CONDUIT PLACEMENT DOES NOT CONFLICT WITH LOCATION SENSITIVE COMPONENTS SUCH AS LIGHT FIXTURES.</div> <div>11. INTEGRATED EQUIPMENT RATINGS SHOWN ARE MINIMUMS. CONTRACTOR SHALL PROVIDE MANUFACTURER'S EQUAL OR NEXT HIGHER STANDARD RATINGS.</div> <div>12. ALL PULL CORD/WIRE PROVIDED FOR EMPTY RACEWAY/CONDUIT SYSTEMS SHALL HAVE A MINIMUM STRENGTH OF 200 LBS TENSILE STRENGTH. ALL EMPTY CONDUITS SHALL HAVE A PULL CORD.</div> <div>13. PROVIDE LUGS AS REQUIRED FOR ALL ELECTRICAL EQUIPMENT TO ACCEPT THE SIZE AND NUMBER OF CONDUCTORS SHOWN IN THESE DOCUMENTS.</div> <div>14. THE LIGHTING PLANS INDICATE SWITCHING AND BRANCH CIRCUIT NUMBERS FOR ALL LIGHTING FIXTURES. LOWER CASE LETTERS AT SWITCHES AND LIGHTING FIXTURES INDICATE SWITCHING WHERE THE CONTROL PATTERN IS NOT OBVIOUS. INSTALL BRANCH CIRCUIT WIRING IN RACEWAY TO ALL RIGIDLY ATTACHED LIGHTING FIXTURES, AND TO JUNCTION BOXES FOR ALL LAY-IN LIGHTING FIXTURES, AS REQUIRED TO PROVIDE SWITCHING AND CIRCUITING AS SHOWN ON THE DRAWINGS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.</div> <div>15. ALL LAY-IN LIGHTING FIXTURES SHALL BE CONNECTED TO A BRANCH CIRCUIT JUNCTION BOX WITH A FLEXIBLE FIXTURE TAIL. A MAXIMUM OF FOUR FIXTURE TAILS SHALL BE CONNECTED TO A SINGLE JUNCTION BOX. FIXTURE TO FIXTURE WIRING OF LAY-IN LIGHTING FIXTURES IS NOT PERMITTED, EXCEPT WHERE MASTER/SLAVE FIXTURE PAIRS ARE INDICATED OR SPECIFIED.</div> <div>16. THERE SHALL BE NO SPLICES OF WIRING INSIDE PANELBOARDS OR DISCONNECT SWITCHES. ONLY ONE WIRE SHALL BE TERMINATED TO ANY SINGLE LUG ON A CIRCUIT BREAKER.</div> <div>17. ALL WIRING AND CONDUIT SIZES SHALL BE BASED ON THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE UNLESS OTHERWISE NOTED SPECIFICALLY.</div> <div>18. UNLESS OTHERWISE NOTED, FOR LIGHTING AND RECEPTACLE HOMERUNS HAVING A TOTAL LENGTH OF 100' TO 200', USE #10 CONDUCTORS; FOR HOMERUNS HAVING A TOTAL LENGTH OF 200' OR GREATER, USE #8 CONDUCTORS.</div> <div>19. COORDINATE THE REQUIREMENTS FOR OVERCURRENT PROTECTIVE DEVICE SIZE, DISCONNECT SWITCH SIZE, AND CONDUCTOR AND CONDUIT SIZES WITH THE REQUIREMENTS OF THE MECHANICAL EQUIPMENT THAT IS ACTUALLY TO BE INSTALLED AND PROVIDE AND INSTALL ALL ELECTRICAL COMPONENTS AS REQUIRED. THE ELECTRICAL COMPONENT SIZING SHOWN ON THESE DRAWINGS IS BASED UPON THE REQUIREMENTS FOR THE SPECIFIED MECHANICAL EQUIPMENT AVAILABLE AT THE TIME OF DESIGN. VARIATIONS IN REQUIREMENTS MAY OCCUR AS A RESULT OF THE PROVISION OF OTHER MANUFACTURER'S EQUIPMENT OR IN CHANGES TO THE SPECIFIED EQUIPMENT. SUCH REVISED REQUIREMENTS ARE A PART OF THIS CONTRACT AND SHALL BE ACCOMMODATED WITHOUT ADDITIONAL CHARGE.</div> <div>20. FOR COORDINATION PURPOSES, LIGHTING FIXTURES AND DEVICES MAY BE MOVED A MAXIMUM DISTANCE OF FIVE FEET, PRIOR TO INSTALLATION, AT NO COST TO THE OWNER, UPON INSTRUCTION BY THE ARCHITECT OR ENGINEER.</div> <div>21. COORDINATE THE EXACT LOCATION OF ALL THERMOSTATS, STARTERS, DISCONNECTS, ETC. AND COORDINATE ALL REQUIREMENTS FOR CONTROL AND POWER WIRING WITH THE MECHANICAL CONTRACTOR OR THE TRADE PROVIDING THE EQUIPMENT.</div> <div>22. WHERE RECEPTACLES ARE SHOWN BACK-TO-BACK ON A COMMON WALL, OFFSET THE TWO BOXES AT LEAST SIX INCHES.</div> <div>23. ALL CONDUCTORS SHALL BE THWN/THHN UNLESS OTHERWISE INDICATED. CONDUCTORS SHALL BE RATED FOR 75 DEGREES C. TERMINATIONS SHALL BE RATED FOR 75 DEGREES C. DEVIATIONS SHALL COMPLY WITH NEC ARTICLE 110-14(c) FOR EXACT EQUIPMENT BEING PROVIDED.</div> <div>24. VERIFY DEVICE PLATE COLORS WITH ARCHITECT.</div> <div>25. COORDINATE WITH AND PAY ALL FEES ASSOCIATED WITH OBTAINING SERVICE FORM ANY OF THE FOLLOWING UTILITIES RELATED TO THIS PROJECT:<div>POWER COMPANY</div><div>TELEPHONE COMPANY</div><div>CABLE/INTERNET SERVICE PROVIDER</div></div> <div>26. ALL CIRCUITS FEEDING LOADS FROM VFD CONTROLLERS SHALL UTILIZE BELDEN VFD RATED CABLE SIZED AS RECOMMENDED BY THE MANUFACTURER BUT NOT LESS THAN THE RATING OF THE FEEDER SERVING THE VFD. RACEWAY SIZES FOR THE BELDEN CABLE SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODE. CONTRACTOR SHALL VERIFY MOTOR BEING SERVED IS NEMA MG-31 RATED PRIOR TO FINAL TERMINATIONS AND NOTIFY A/E IF DISCREPANCIES ARE FOUND.</div> <div>27. CONTRACTOR IS RESPONSIBLE FOR COORDINATING NEW ELECTRIC SERVICE VOLTAGE AND AMP REQUIREMENTS WITH ELECTRIC UTILITY. COORDINATION PERFORMED BY ENGINEER EARLY IN DESIGN PROCESS IS PRELIMINARY IN NATURE AND THEREFORE SUBJECT TO CHANGE, CONTRACTOR IS RESPONSIBLE FOR COORDINATING FINAL SERVICE REQUIREMENTS INCLUDING METERING REQUIREMENTS, VOLTAGE AND AMPACITY.</div>		<div><div><div><div><div></div></div><div>SWITCHBOARD OR DISTRIBUTION PANEL</div></div><div><div><div></div></div><div>PANELBOARD – FLUSH OR SURFACE MOUNT AS INDICATED ON PLAN SCHEDULE</div></div><div><div><div></div></div><div>PLYWOOD TERMINAL BOARD, FOR TELEPHONE SYSTEM UNLESS NOTED, 4' X 8' X 3/4" UNLESS OTHERWISE NOTED</div></div></div></div> <div>POWER DEVICE SCHEDULE</div> <table><tr><th>SYMBOL</th><th>WIRING DEVICES, DISCONNECT SWITCHES AND MOTOR CONTROL</th></tr><tr><td></td><td>20A DUPLEX RECEPTACLE 18" AFF UNLESS NOTED OTHERWISE</td></tr><tr><td></td><td>20A DUPLEX RECEPTACLE, TAMPER-PROOF, 18" AFF UNLESS NOTED OTHERWISE</td></tr><tr><td></td><td>20A SIMPLEX RECEPTACLE 18" AFF UNLESS NOTED OTHERWISE</td></tr><tr><td></td><td>20A QUADDRAPLEX RECEPTACLE 18" AFF UNLESS NOTED OTHERWISE</td></tr><tr><td></td><td>20A DUPLEX RECEPTACLE ABOVE COUNTER/ COUNTER BACK SPLASH</td></tr><tr><td></td><td>SPECIAL PURPOSE RECEPTACLE AS NOTED IN PLAN VIEWS</td></tr><tr><td></td><td>USB OUTLET</td></tr><tr><td></td><td>FLOOR RECEPTACLE</td></tr><tr><td></td><td>FLOOR RECEPTACLE WITH DATA. 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ABBREVIATIONS			
A AC AFF AFG AIC ATS AWG BKR BLDG C CKT CLG D DEG DIS DPDT DPST EA EPO EWC FA FACP FLA FT FVNR G GA GFI GFR GND GRS H HID HOA HPS HVAC HZ IER IG IN J-BOX kcmil KV KVA KVAR KW KWH	AMPS ABOVE COUNTERTOP ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AMPERE INTERRUPTING CURRENT AUTOMATIC TRANSFER SWITCH AMERICAN WIRE GAUGE BREAKER BUILDING CONDUIT CIRCUIT CEILING DEPTH DEGREES DISCONNECT DOUBLE-POLE, DOUBLE-THROW DOUBLE-POLE, SINGLE-THROW EACH EMERGENCY POWER OFF ELECTRIC WATER COOLER FIRE ALARM FIRE ALARM CONTROL PANEL FULL LOAD AMPS FOOT, FEET FULL-VOLTAGE, NON-REVERSING GROUND GAUGE GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT RELAY GROUND GALVANIZED RIGID STEEL HEIGHT HIGH INTENSITY DISCHARGE HAND-OFF-AUTOMATIC HORSEPOWER HIGH PRESSURE SODIUM HEATING, VENTILATING AND AIR CONDITIONING HERTZ INTEGRATED EQUIPMENT RATING ISOLATED GROUND INCH, INCHES JUNCTION BOX 1000 CIRCULAR MILS KILOVOLT KILOVOLT-AMPS KILOVOLT-AMPS REACTIVE KILOWATT KILOWATT-HOUR	L LB LRA LTG MAX MCA MCB MH MIN MLO N/A NEC NEMA NFPA NO. N/O,N/C OC OSHA PDU PF PH PROVIDE PVC RE RLA SPOT SPST THRU TYP U/F U/G U/S UL U.O.N. UPS VA VAC W W/O WP XFMR	LENGTH POUNDS LOCKED ROTOR AMPS LIGHTING MAXIMUM MINIMUM CIRCUIT AMPACITY MAIN CIRCUIT BREAKER METAL HALIDE MINIMUM MAN LUGS ONLY NOT APPLICABLE NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION NATIONAL FIRE PROTECTION ASSOCIATION NORMALLY OPEN, NORMALLY CLOSED ON CENTER OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION POWER DISTRIBUTION UNIT POWER FACTOR PHASE FURNISH AND INSTALL POLYVINYL CHLORIDE REFERENCE, REFER RUNNING LOAD AMPS SINGLE POLE DOUBLE THROW SINGLE POLE SINGLE THROW TYPICAL UNDERFLOOR UNDERGROUND UNDERSLAB UNDERWRITERS LABORATORIES, INC. UNLESS OTHERWISE NOTED UNINTERRUPTIBLE POWER SUPPLY VOLT VOLT-AMPERE VOLTS ALTERNATING CURRENT WATT, WIDTH WITH WITHOUT WEATHERPROOF DEVICE. RECEPTACLES SHALL BE WEATHER-RESISTANT TYPE GFI RECEPTACLES IN WEATHERPROOF WHILE IN-USE BOX. TRANSFORMER

BASIS OF ELECTRICAL DESIGN	
PRIMARY CODES:	
ELECTRICAL:	2017 NEC/2023 NEC PER STATE OF TEXAS ADOPTION.
ENERGY:	2021 INTERNATIONAL ENERGY CODE (WITH CITY AMENDMENTS).
FIRE:	2021 INTERNATIONAL FIRE CODE (WITH CITY AMENDMENTS).
BUILDING:	2021 INTERNATIONAL BUILDING CODE (WITH CITY AMENDMENTS).
ACCESSIBILITY:	AMERICAN'S WITH DISABILITIES ACT (ADA); TEXAS ACCESSIBILITY STANDARDS (TAS); TEXAS DEPARTMENT OF LICENSING AND REGULATION (TDLR)

MISCELLANEOUS	
	DRAWING NOTE REFERENCE (I.E. NOTES BY SYMBOL)
	CONNECTION INTO EXISTING
	JUNCTION BOX, A RECESSED SINGLE GANG BOX, BLANK COVERPLATE, WITH 3/4" C. STUBBED UP TO 4" ABOVE CEILING.
	TELEPHONE OR DATA OUTLET (SINGLE PORT) A RECESSED SINGLE GANG JUNCTION BOX, BLANK COVERPLATE, WITH 1" C. STUBBED UP TO 4" ABOVE CEILING.
	DATA OUTLET (MULTI PORT) ADJACENT NUMBER INDICATES QUANTITIES. A SINGLE OR DOUBLE GANG JUNCTION BOX AS APPROPRIATE FOR NUMBER OF PORTS, BLANK COVERPLATE, MULTIPLE 1" C.'S STUBBED UP TO 4" ABOVE CEILING.
	EXISTING SINGLE DATA OUTLET TO REMAIN. NUBER ADJACENT INDICATES NUMBER OF PORTS WHERE KNOWN. EC INDICATES BLANK COVERPLATE.
	CARD READER, A SINGLE GANG JUNCTION BOX, BLANK COVERPLATE, WITH 3/4" C. STUBBED UP TO 4" ABOVE CEILING.

FIRE ALARM EXPANSION	
THE CONTRACTOR SHALL EMPLOY A FIRE ALARM PLANNING SUPERINTENDENT, CERTIFIED BY THE STATE FIRE MARSHAL'S OFFICE, TO DESIGN AND INSTALL A FIRE ALARM SYSTEM.	
THE FIRE ALARM PLANNING SUPERINTENDENT SHALL PREPARE PERMIT DOCUMENTS, USING EXACT DEVICES TO BE PROVIDED BY THE MANUFACTURER, AND SHALL BE RESPONSIBLE TO INSURE THAT THE DESIGN MEETS ALL OF THE REQUIREMENTS OF NFPA, ADA, NEC, ALL LOCAL CODES AND AMENDMENTS, AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.	
MODIFICATION TO THE EXISTING FIRE ALARM TO ACCOMMODATE THE NEW FACILITY AND THE RENOVATED AREAS WITHIN THE EXISTING FACILITY.	



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CATHOLIC
CHURCH

PARISH HALL
REMODEL &
CONNECTOR
BUILDING

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BID SET

Drawing Title:

ELECTRICAL LEGEND

Project No.

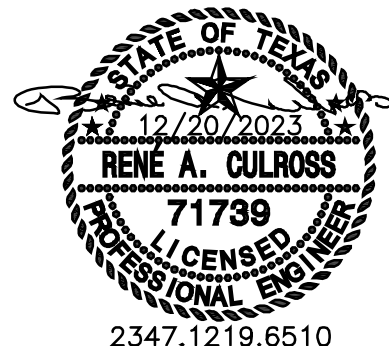
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Date:

12/20/2023

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