

ELECTRICAL LEGEND

- A-1 ADJACENT TO ARROW INDICATES HOMERUN OF CIRCUIT NO. 1 TO PANEL A; "B" INDICATES FIXTURE TYPE; MARKS ACROSS RACEWAY RUN INDICATES THE NUMBER OF NO. 12 CONDUCTORS; UNLESS NOTED OTHERWISE NO MARKS INDICATES TWO NO. 12 CONDUCTORS AND ONE NO. 12 GREEN GROUND CONDUCTOR IN 1/2" CONDUIT (2#12 & 1#12 GND-1/2" C)
- CEILING FIXTURE
- WALL BRACKET FIXTURE
- POLE MOUNTED FIXTURE
- 2' X 2' FIXTURE; CEILING MOUNTED; ARROW INDICATES LENS DIRECTION
- 2' X 2' FIXTURE WITH INTEGRAL EMERGENCY BATTERY OR CONNECTED TO AN EMERGENCY CIRCUIT AS INDICATED; CEILING MOUNTED; ARROW INDICATES LENS DIRECTION
- 2' X 4' FIXTURE; CEILING MOUNTED
- 2' X 4' FIXTURE WITH INTEGRAL EMERGENCY BATTERY OR CONNECTED TO AN EMERGENCY CIRCUIT AS INDICATED; CEILING MOUNTED
- EXIT SIGN; BACK MOUNTED; ARROWS AS NOTED; SHADED SECTION INDICATES LIGHTED FACE OF EXIT SIGN
- JUNCTION BOX; MOUNTED ABOVE CEILING
- JUNCTION BOX; MOUNTED FLUSH IN WALL WITH BLANK COVER
- DUPLEX RECEPTACLE; 125V; 20A; 3 POLE GND; MT 18" AFF TO C/L UNLESS NOTED OTHERWISE; NEMA 5-20R; HUBBELL SERIES HBL5352
- CEILING MOUNTED SIMPLEX RECEPTACLE; 125V; 20A; 3 POLE GND; MT FLUSH IN CEILING UNLESS NOTED OTHERWISE; NEMA 5-20R; HUBBELL SERIES HBL5361
- QUAD RECEPTACLE; 125V; 20A; 3 POLE GND; MT 18" AFF TO C/L UNLESS NOTED OTHERWISE; NEMA 5-20R; HUBBELL SERIES HBL5362
- QUAD RECEPTACLE; 125V; 20A; 3 POLE GND; GFI; MT 18" AFF TO C/L UNLESS NOTED OTHERWISE; NEMA GF-5-20R; HUBBELL SERIES GF5362
- DUPLEX RECEPTACLE; 125V; 20A; 3 POLE GND; GFI; MT 18" AFF TO C/L UNLESS NOTED OTHERWISE; NEMA GF-5-20R; HUBBELL SERIES GF5362
- LETTERS "WP" ADJACENT TO SYMBOL INDICATES GFI WEATHER RESISTANT RECEPTACLE; HUBBELL HBL5362WR WITH WEATHERPROOF COVER; PASS AND SEYMOUR WUFC10S COVER/BOX.
- DUPLEX RECEPTACLE FOR TELEVISION WITH TVSS PROTECTION, LED AND ALARM; 125V; 20A; 2 POLE; 3 WIRE; GND; SEE TELECOM PLANS FOR MOUNTING DETAILS. NEMA 5-20R; HUBBELL SERIES HBL5362SA
- POWER FLOOR BOX; DUPLEX RECEPTACLE; 125V; 20A; 3 POLE GND; NEMA 5-20R; HUBBELL SERIES HBL5352; REFER TO INSTALLATION DETAIL FOR SPECIFIC INFORMATION.
- LETTERS "+XX" ADJACENT TO SYMBOL INDICATES RECEPTACLE MOUNTING HEIGHT.
+AC" = ABOVE COUNTER OR BACKSPLASH (+46" MAXIMUM TO TOP OF DEVICE)
+DF" = VERIFY HEIGHT FOR DRINKING FOUNTAIN WITH MECHANICAL CONTRACTOR
+TV" = VERIFY HEIGHT OF TV WITH OWNER.
+REF" = +60" AFF TO CENTERLINE
- SPECIAL TYPE RECEPTACLE "X" DENOTES NEMA TYPE; CEILING MOUNTED; VERIFY EXACT LOCATION & REQUIREMENTS WITH EQUIPMENT CONTRACTOR.
A = 120V, 30A, 2P, 3W, NEMA L5-30R; HUBBELL SERIES HBL9330.
- SPECIAL TYPE RECEPTACLE "X" DENOTES NEMA TYPE; WALL MOUNTED; VERIFY EXACT LOCATION & REQUIREMENTS WITH EQUIPMENT CONTRACTOR.
A = 120V, 30A, 2P, 3W, NEMA L5-30R; HUBBELL SERIES HBL9330.
- S WALL SWITCH; 120/277V; 20A; 1 POLE; A.C. ONLY; MT 48" AFF TO C/L; HUBBELL SERIES HBL1221
- Sv LOW VOLTAGE WALL SWITCH WITH VACANCY SENSOR; DUAL TECHNOLOGY; CONNECT TO LOCAL POWER PACK/ROOM CONTROLLER; MT 48" AFF TO C/L; REFER TO SPECS; WATTSTOPPER #LMDW-101-W.
- Sl# LOW VOLTAGE WALL SWITCH; CONNECT TO LOCAL NETWORK ROOM CONTROLLER; MT 48" AFF TO C/L; REFER TO SPECS; SEE LIGHTING CONTROL DETAILS
SYMBOL "#" INDICATES BUTTON COUNT.
- M MOTOR CONTROL SWITCH; 600V; 30A; 2 POLE; A.C. ONLY; NEAR OR ON EQUIPMENT BEING SERVED; HUBBELL SERIES HBL7832D.

SPECIAL NOTE
SEE TELECOM SHEETS FOR TELECOM AND SECURITY LEGENDS

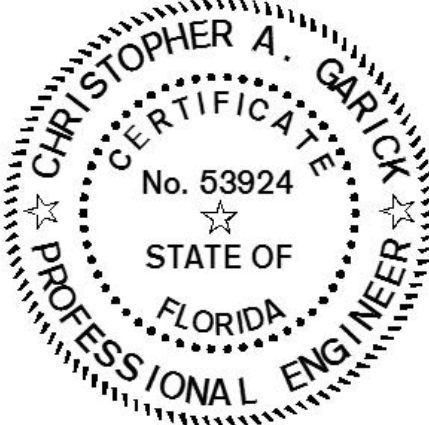
ABBREVIATIONS

- AHU - AIR HANDLING UNIT
- AFF - ABOVE FINISHED FLOOR
- C - CONDUIT
- C/L - CENTERLINE
- COND - CONDENSING UNIT
- CP - CIRCULATION PUMP
- DMX - DIGITAL MULTIPLEX
- EC - ELECTRICAL CONTRACTOR
- EF - EXHAUST FAN
- EWC - ELECTRIC WATER COOLER
- EWB - ELECTRIC WATER HEATER
- FACP - FIRE ALARM CONTROL PANEL
- ANNUNC - FIRE ALARM ANNUNCIATOR
- GFI - GROUND FAULT PROTECTION
- GND - GROUND CONDUCTOR
- GWH - GAS WATER HEATER
- HP - HEAT PUMP
- LTG - LIGHTING
- LTS - LIGHTS
- RECEPT - RECEPTACLE
- TP - TRAP PRIMER
- UNO - UNLESS NOTED OTHERWISE
- WP - WEATHERPROOF

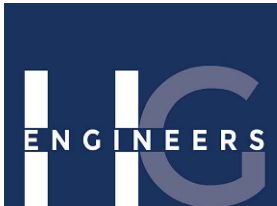
- LIGHTING CONTROLS SYSTEM NETWORK BRIDGE; INSTALL CONCEALED ABOVE CEILING; REFER TO LIGHTING CONTROLS DETAILS
- ROOM CONTROLLER; INSTALL CONCEALED ABOVE CEILING SPACE; REFER TO LIGHTING CONTROLS DETAILS
- LOW VOLTAGE HIGH-BAY OCCUPANCY SENSOR; PASSIVE INFRARED TYPE; CEILING MOUNTED; UNLESS OTHERWISE NOTED; REFER TO LIGHTING CONTROLS DETAILS
- LOW VOLTAGE VACANCY SENSOR; 360° DUAL-TECHNOLOGY TYPE; CEILING MOUNTED; UNLESS OTHERWISE NOTED; REFER TO LIGHTING CONTROLS DETAILS
- PANEL; 120/240V; MT 72" AFF TO TOP
- LIGHTING NETWORK CONTROLLER
- MOTOR; FURNISHED BY OTHERS
- EXHAUST FAN; FURNISHED BY OTHERS
- NON-FUSED DISCONNECT SWITCH; AMP SIZE AS NOTED
- RACEWAY INSTALLED CONCEALED IN WALLS AND/OR ABOVE CEILING
- RACEWAY INSTALLED CONCEALED IN FLOOR SLAB AND/OR BELOW GRADE
- RACEWAY INSTALLED EXPOSED
- EMERGENCY RACEWAY INSTALLED CONCEALED
- LOW VOLTAGE CONDUCTOR; COORDINATE WITH DEVICE CONNECTION REQUIREMENTS.
- FLEXIBLE CONDUIT CONNECTION
- CONDUIT STUB UP WITH FLEXIBLE CONDUIT CONNECTION TO EQUIPMENT
- PHOTOCCELL; REFER TO LIGHTING CONTROLS DETAILS

ELECTRICAL GENERAL NOTES

- A. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT SIZE AND LOCATION OF EQUIPMENT WHICH IS FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL.
- B. RECEPTACLES, SWITCHES AND COVERPLATES COLOR SHALL BE SELECTED BY THE ARCHITECT FROM STANDARD COLORS.
- C. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGHING-IN WALL FOR SWITCHES.
- D. LOCATION OF LIGHTING FIXTURES, DISCONNECT SWITCHES, ETC. FOR MECHANICAL EQUIPMENT/ROOM SHALL BE COORDINATED WITH FINAL MECHANICAL EQUIPMENT LOCATION TO PROVIDE NATIONAL ELECTRIC CODE REQUIRED ACCESS SPACE.
- E. FINAL CONNECTION TO ALL MOTORS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
- F. ALL EXIT AND EMERGENCY FIXTURES SHALL BE CONNECTED TO LIGHT CIRCUIT AHEAD OF LOCAL SWITCH.
- G. ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, ETC SHALL HAVE CUSTOM ENGRAVED MICARTA NAMEPLATE MECHANICALLY AFFIXED IDENTIFYING SYSTEM.
- H. PROVIDE GREEN GROUND CONDUCTOR IN ALL CIRCUITS - SIZE PER N.E.C.
- I. ALL EXPOSED CONDUITS, BOXES, STRAPS AND HANGERS IN THE CONTRACT AREA WHETHER NEW OR EXISTING THAT ARE PART OF THE ELECTRICAL SYSTEM SHALL BE PAINTED TO MATCH ADJACENT FINISH.
- J. PROVIDE CONCRETE MARKER AT END OF ALL CONDUITS STUBBED OUT OF BUILDING FOR FUTURE USE. MARKER SHALL BE 6" DIA X 18" HIGH WITH 2" ABOVE FINISHED GRADE. INSCRIBE IN TOP OF MARKER "E" FOR ELECTRICAL, "T" FOR TELEPHONE, "V" FOR TV CABLE, AND "IC" FOR INTERCOM.
- K. GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.
- L. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE MECHANICAL AND SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.
- M. VERIFY EXACT LOCATION OF ALL FLOOR OUTLETS WITH THE ARCHITECT PRIOR TO ROUGHING-IN.
- N. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FAULT CURRENT CALCULATIONS FOR THE SERVICE EQUIPMENT AND SHALL MARK THE EQUIPMENT WITH THE AVAILABLE FAULT CURRENT AND DATE OF THE CALCULATION PER NEC 110.24. REFER TO TYPICAL SERVICE EQUIPMENT FAULT CURRENT LABEL DETAIL.
- O. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ARC FAULT LABELS PER NFPA 70E ARTICLE 110.16 FOR NEW EQUIPMENT. THE OWNER SHALL PROVIDE AVAILABLE CALCULATION DATA FOR THE EXISTING EQUIPMENT IN THE ELECTRICAL SYSTEM. REFER TO TYPICAL ARC FLASH HAZARD LABEL DETAIL.
- P. PROVIDE NEUTRAL AT ALL LINE VOLTAGE SWITCH LOCATIONS PER N.E.C. 404.2(C).
- Q. PROVIDE "LSI" TRIP UNITS FOR ALL BREAKERS GREATER THAN OR EQUAL TO 200A.
- R. PROVIDE CONDUIT BUSHINGS ON ALL ENDS OF CONDUITS.
- S. COMPLY WITH ALL LOCAL CODE, LAWS, AND ORDINANCES APPLICABLE TO ELECTRICAL WORK, THE STATE BUILDING CODE AND THE NATIONAL ELECTRIC CODE. OBTAIN ALL PERMITS REQUIRED BY LOCAL ORDINANCES.
- T. OBTAIN ARCHITECTS APPROVAL OF ALL LIGHT FIXTURES, SWITCHES, RECEPTACLES, PANELBOARDS, ETC. PRIOR TO PURCHASING.
- U. THE ELECTRICAL WORK SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. ALL NOT SO INSTALLED SHALL BE REMOVED AND REPLACED AT NO COST TO THE OWNER.
- V. ALL WORK SHALL BE INSTALLED IN CONCEALED TYPE CONSTRUCTION. UNDERGROUND CONDUITS UP TO FIRST BOX IN CONCEALED CONSTRUCTION MAY BE SCH.40 PVC. EXTERIOR EXPOSED WORK SHALL BE I.M.C. BRANCH CIRCUIT CONDUIT RUN IN OPEN SPACES ABOVE CEILING OR IN WALLS MAY BE THINWALL (E.M.T.) CONDUIT 1/2" MIN. SIZE.
- W. ALL CONDUCTORS LESS THAN 100A. SHALL BE COPPER #12 & #10 SOLID, #8 AND LARGER STRANDED, #6 AND SMALLER TO BE TYPE THWN, 600 VOLT INSULATION AND TYPE THWN OR THHN FOR #4 AND LARGER. ALUM. CONDUCTORS MAY BE USED FOR 100A. AND LARGER ONLY WHERE USED WITH COMPRESSION TERMINATIONS.
- X. PROVIDE GROUNDING PER NATIONAL ELECTRIC CODE.
- Y. THE CONTRACTOR SHALL LEAVE THE ENTIRE ELECTRICAL SYSTEM INSTALLED IN PROPER WORKING ORDER, AND SHALL REPLACE WITHOUT ADDITIONAL COST, ALL WORK OR MATERIAL WHICH MAY DEVELOP DEFECTS, (ORDINARY WEAR AND TEAR OR DAMAGE RESULTING FROM IMPROPER HANDLING EXCEPTED) WITHIN A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.



Digitally signed
by Christopher
A Garick
Date: 2026.09.14
09:43:45 -05'00'



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26004
Job No.

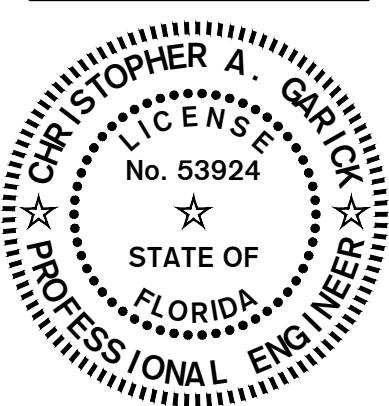
15 SEPT 2026

LEGEND AND NOTES

E1.00

Okaloosa County
Facilities Warehouse

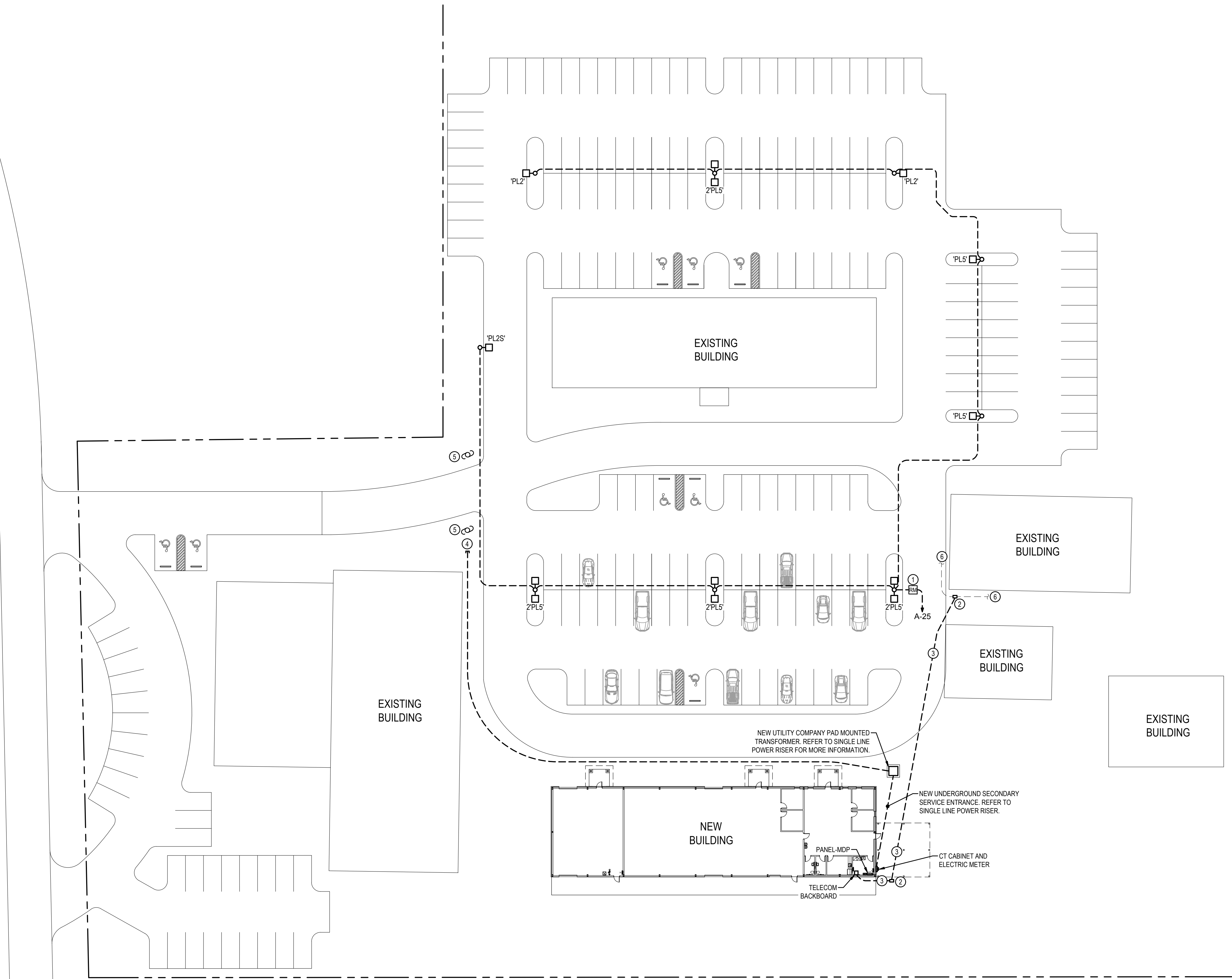
5489 OLD BETHEL ROAD
CRESTVIEW, FLORIDA



DATE: SEPT 15, 2026
DRAWN BY: RENGLE / C/PASTORIUS
PROJECT NO: 2601
REVISIONS:
FOR BID

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SITE PLAN ELECTRICAL

NOTES:

- ① INSTALL ROOM CONTROLLER (AND/OR BRIDGE) ADJACENT TO PANEL SERVING CIRCUIT ON 'DIN RAIL' ASSEMBLY IN ELECTRICAL ROOM.
- ② INSTALL ELECTRICAL PULLBOX FOR TELECOM UTILITY SERVICE ENTRANCE.
- ③ 2-2" EMPT CY CONDUIT FOR TELECOMMUNICATIONS SERVICE ENTRANCE REQUIREMENTS
- ④ 4 RUNS OF 2" C WITH PULL RIBBON, STUB-OUT, CAP AND MARK LOCATION. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE SERVING ELECTRIC UTILITY FOR ALL SERVICE REQUIREMENTS, CONNECTION WORK, AND APPLICABLE UTILITY IMPACT / CONNECTION FEES. COORDINATION SHALL INCLUDE CONFIRMING WITH THE OWNER WHETHER THE OWNER OR CONTRACTOR WILL BE RESPONSIBLE FOR PAYMENT OF SUCH FEES.
- ⑤ EXISTING UTILITY POWER POLE TO REMAIN.
- ⑥ APPROXIMATE LOCATION OF EXISTING FIBER NETWORK FOR CONNECTION TO NEW BUILDING BY OTHERS.

SITE PLAN ELECTRICAL

£2.00

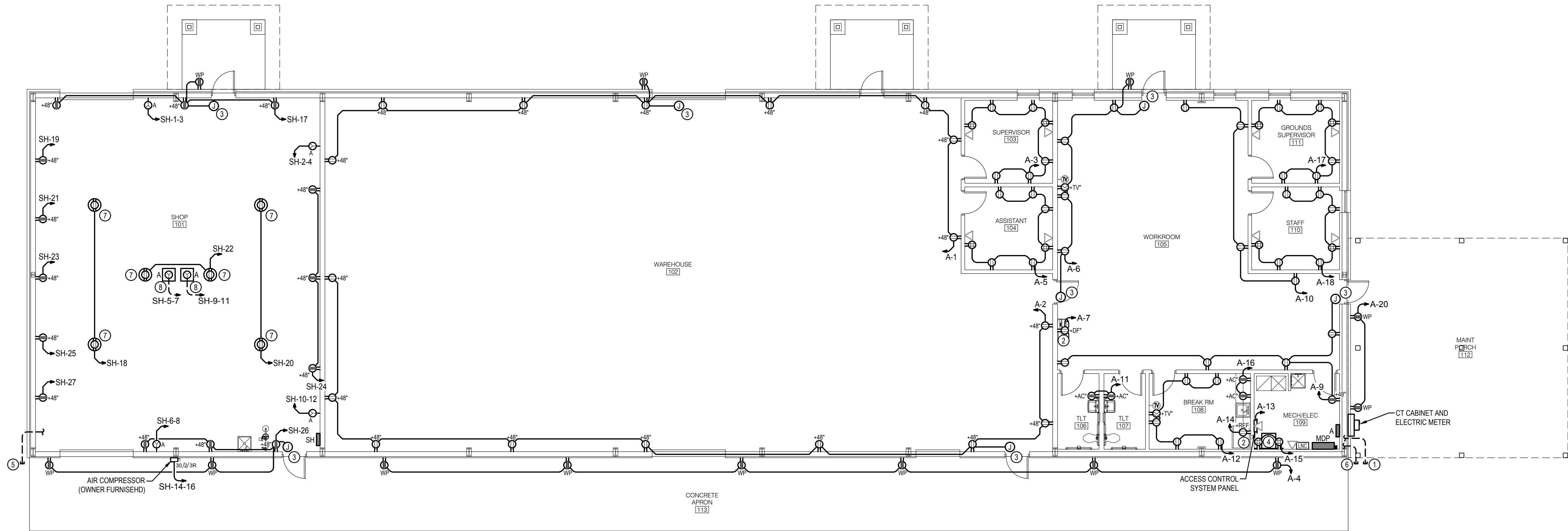
15 SEPT 2026

A circular professional engineer seal for Christopher A. Garlick. The outer ring contains the text "CHRISTOPHER A. GARLICK" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside this ring, the word "LICENSE" is at the top, "No. 53924" is in the center, and "STATE OF FLORIDA" is at the bottom, also separated by two stars. The entire seal is enclosed in a double-lined circular border.

[illegible]Okaloosa County
Facilities Warehouse

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FLOOR PLAN ELECTRICAL
1/8" = 1'-0"
0 4 8 16

NOTES:

1. INSTALL (3/1" EMPTY CONDUITS WITH PULLRIBBONS 36" PAST FOOTER AND BACK TO PANEL-A; FOR FUTURE USE. STUB-OUT, CAP AND MARK LOCATION. SEAL ALL CONDUIT SEGMENTS.
2. CONNECT DEVICE TO GFCI BREAKER.
3. INSTALL JUNCTION BOX ABOVE CEILING (OR NEAR DOOR IN EXPOSED WORK SPACES) FOR CONNECTION TO POWERED ACCESS CONTROLLED DOOR BEING PROVIDED BY OTHERS AND CONNECTED BY ELECTRICAL CONTRACTOR.
4. TELECOM BACKBOARD, 4FT. WIDE X 8 FT. HIGH X 3/4" EXTERIOR PLYWOOD. PAINT TWO COATS FIRE RETARDANT PAINT. INSTALL ONE NO. 6 COPPER GROUND CONDUCTOR IN 3/4" CONDUIT TO BUILDING GROUND, LEAVE 4 FT. SLACK CONDUCTOR AT BACKBOARD.
5. INSTALL (3/1" EMPTY CONDUITS WITH PULLRIBBONS 36" PAST FOOTER AND BACK TO PANEL-SH; FOR FUTURE USE. STUB-OUT, CAP AND MARK LOCATION. SEAL ALL CONDUIT SEGMENTS.
6. INSTALL (2/2" EMPTY CONDUITS WITH PULLRIBBONS 36" PAST FOOTER AND BACK TO PANEL-MDP; FOR FUTURE USE. STUB-OUT, CAP AND MARK LOCATION. SEAL ALL CONDUIT SEGMENTS.
7. INSTALL RECEPTACLE FOR FUTURE CORD REEL BEING PROVIDED AND INSTALLED BY OTHERS.
8. COORDINATE LOCATION OF STUB-UP FLOOR OUTLET WITH ARCHITECT AND OWNER PRIOR TO ROUGHING IN FOR LOCATION. REFER TO INSTALLATION DETAIL FOR REQUIREMENTS.

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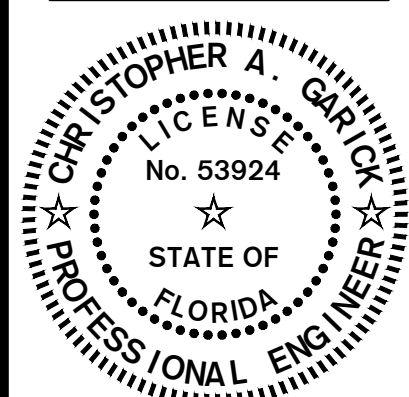
DATE: SEPT 15, 2026

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PROJECT NO: 2601

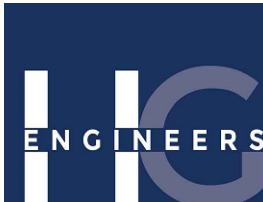
REVISIONS:

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**FLOOR PLAN
ELECTRICAL**

E3.00



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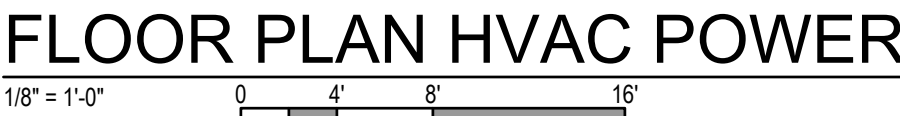
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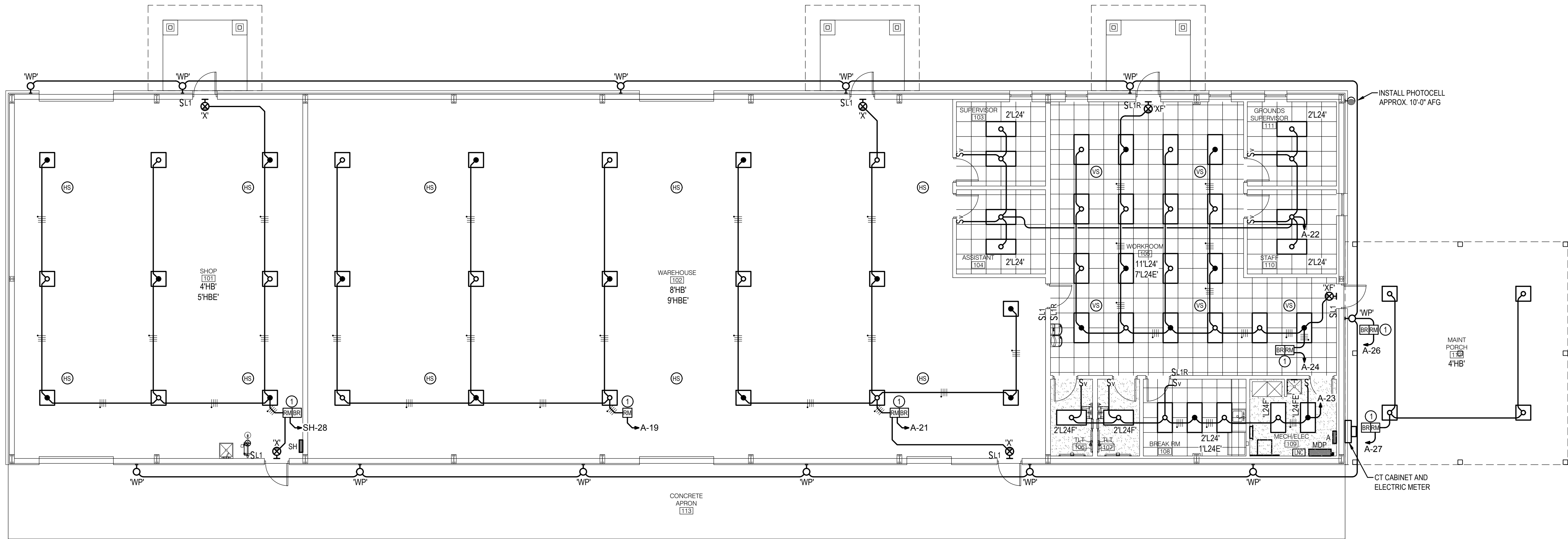
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RENGLE - 8:06 AM - E3.01 FLOOR PLAN HVAC POWER.dwg



FLOOR PLAN LIGHTING
1/8" = 1'-0"

*** LIGHTING LAYOUTS NOTE ***
ALL CEILING LAYOUTS SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLANS. ANY CONFLICTS IDENTIFIED SHALL BE COORDINATED WITH THE ARCHITECT.

NOTES:
① INSTALL ROOM CONTROLLER (AND/OR BRIDGE) ADJACENT TO PANEL SERVING CIRCUIT ON 'DIN RAIL' ASSEMBLY IN ELECTRICAL ROOM.



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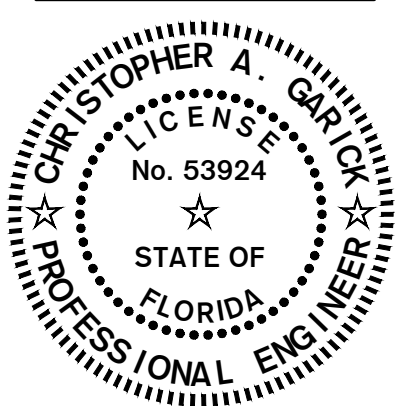
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Caleb W. Leonard, FL PE No.91782

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FLOOR PLAN LIGHTING

E3.02



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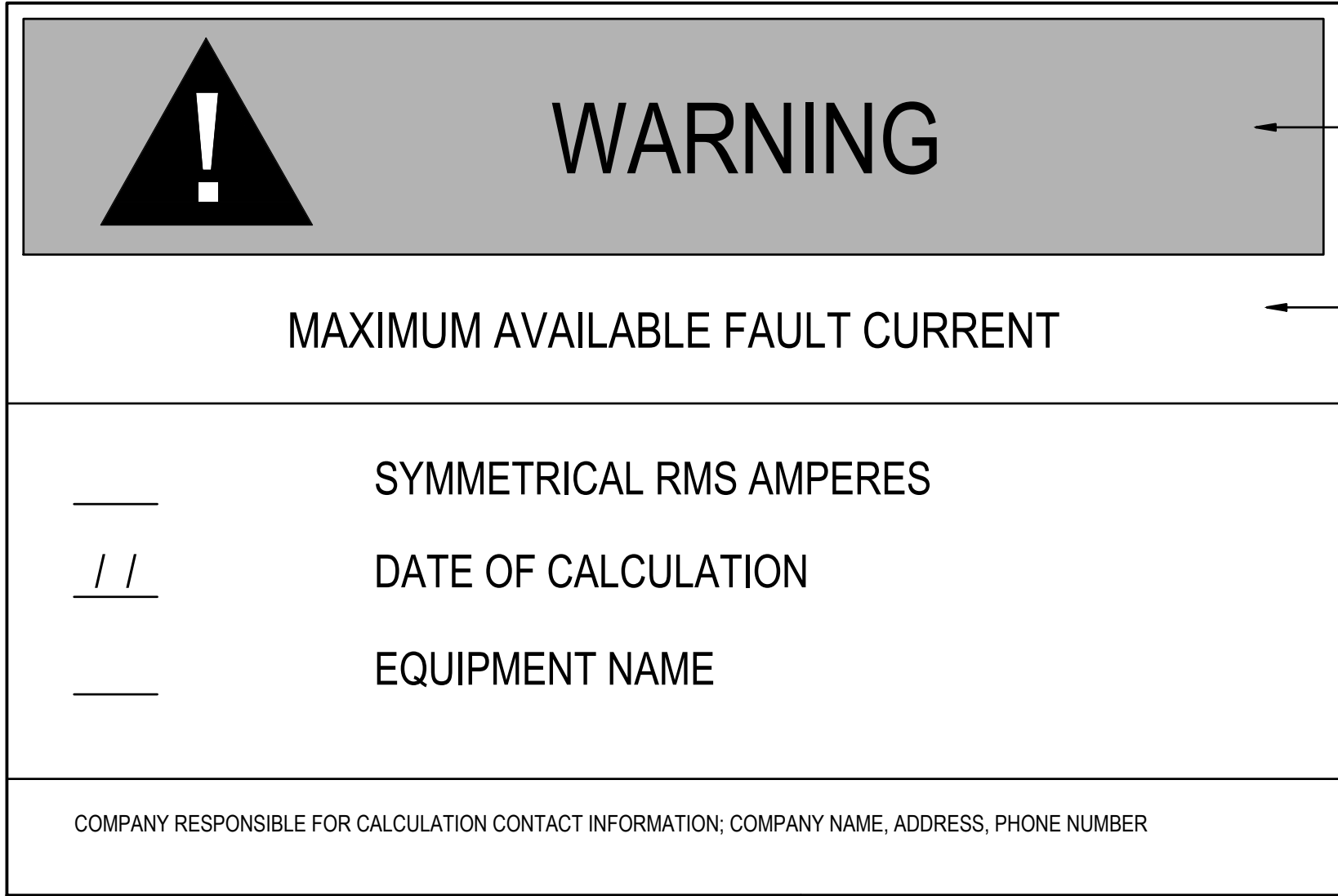
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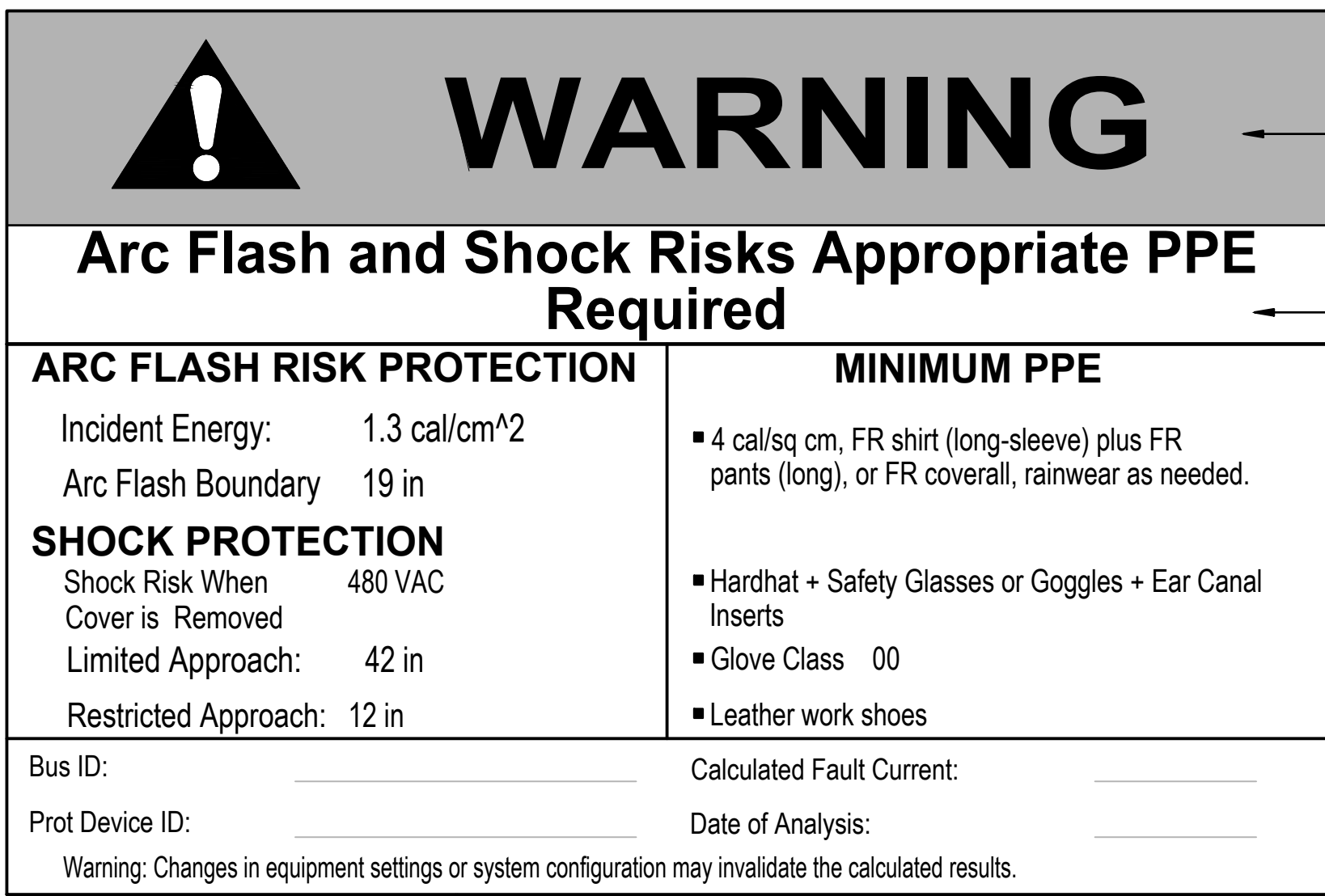
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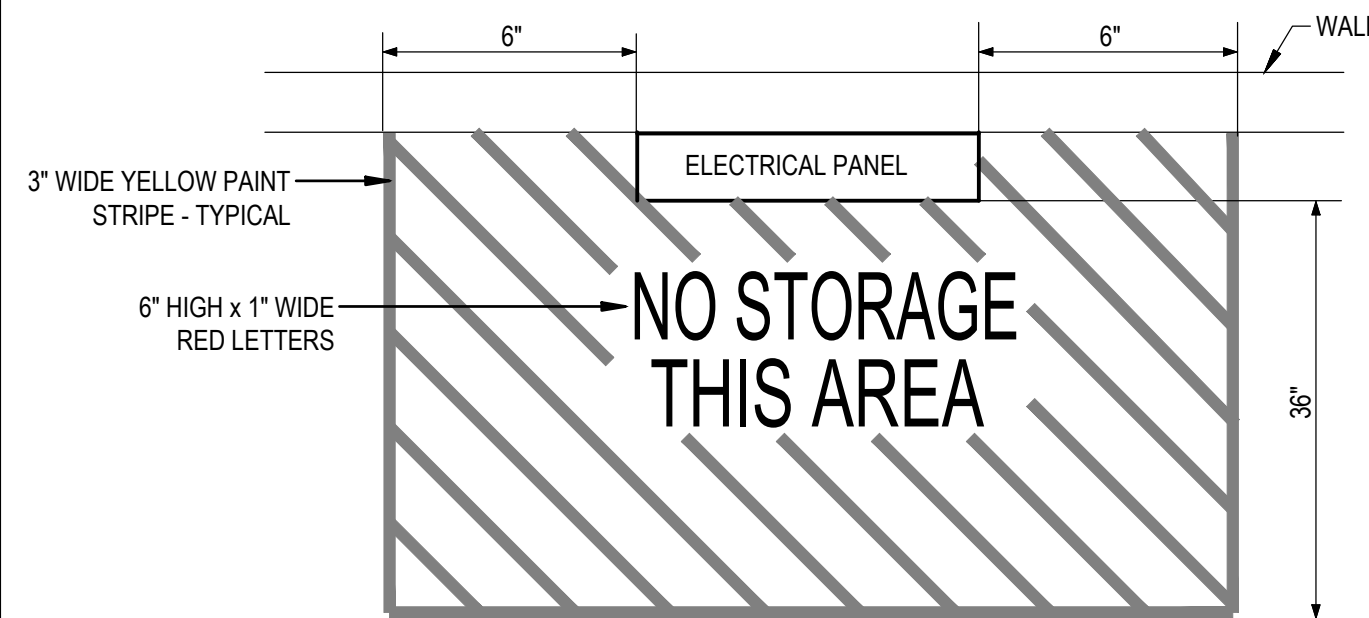
RENGLE - 8:56 AM - 54.00 DETAILS ELECTRICAL.dwg



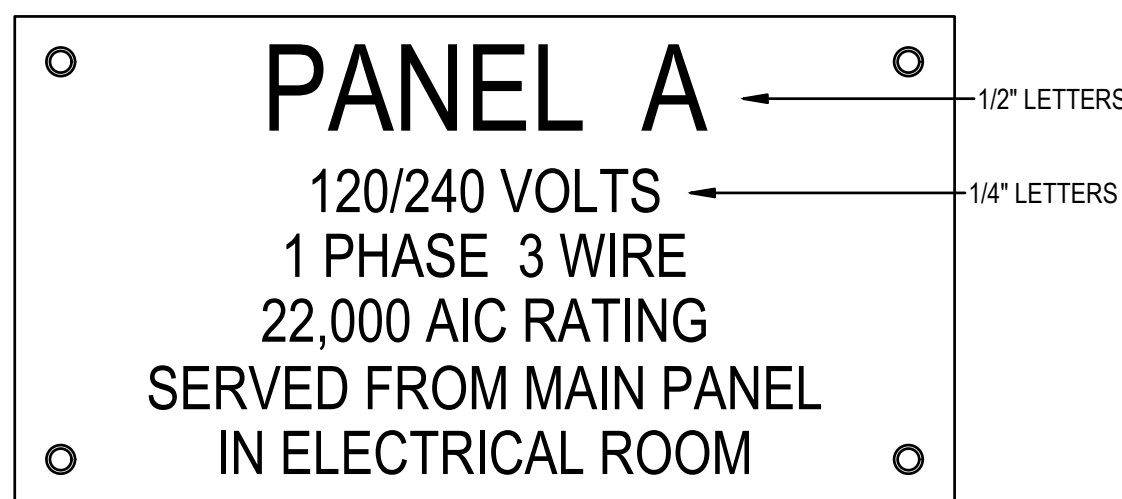
TYPICAL SERVICE EQUIPMENT FAULT CURRENT LABEL DETAIL



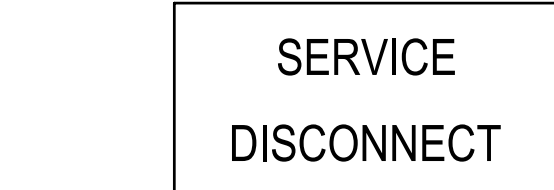
TYPICAL ARC FLASH HAZARD LABEL DETAIL



TYPICAL FLOOR MARKING AT ELECTRICAL PANELS



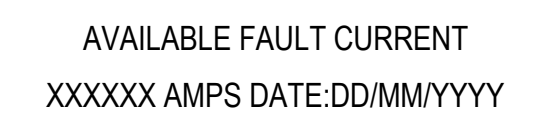
TYPICAL ELECTRICAL EQUIPMENT NAMEPLATE



NOTES

1. PROVIDE LABEL IF NOT PROVIDED BY MANUFACTURER.
2. 3/8" WHITE LETTERS ON BLACK PANEL

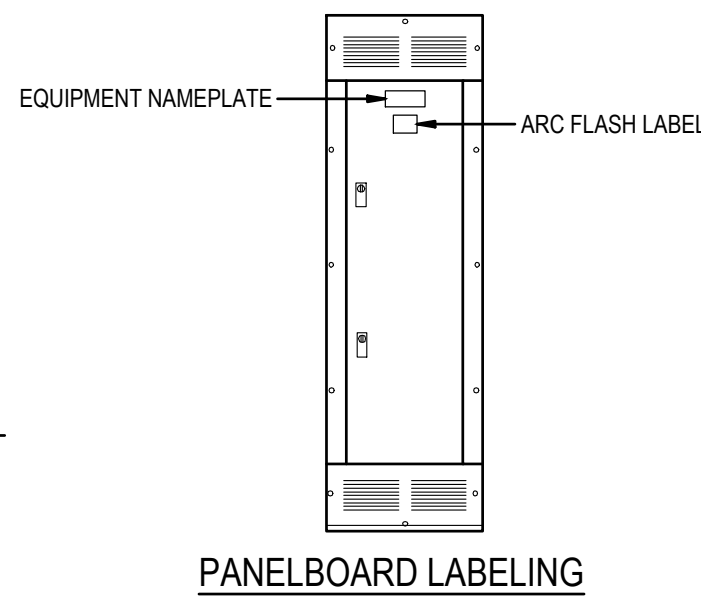
SERVICE EQUIPMENT MARKING



NOTES

1. REQUIRED IN ADDITION TO ARC FLASH LABEL
2. 1/4" WHITE LETTERS ON BLACK PANEL

AVAILABLE FAULT CURRENT



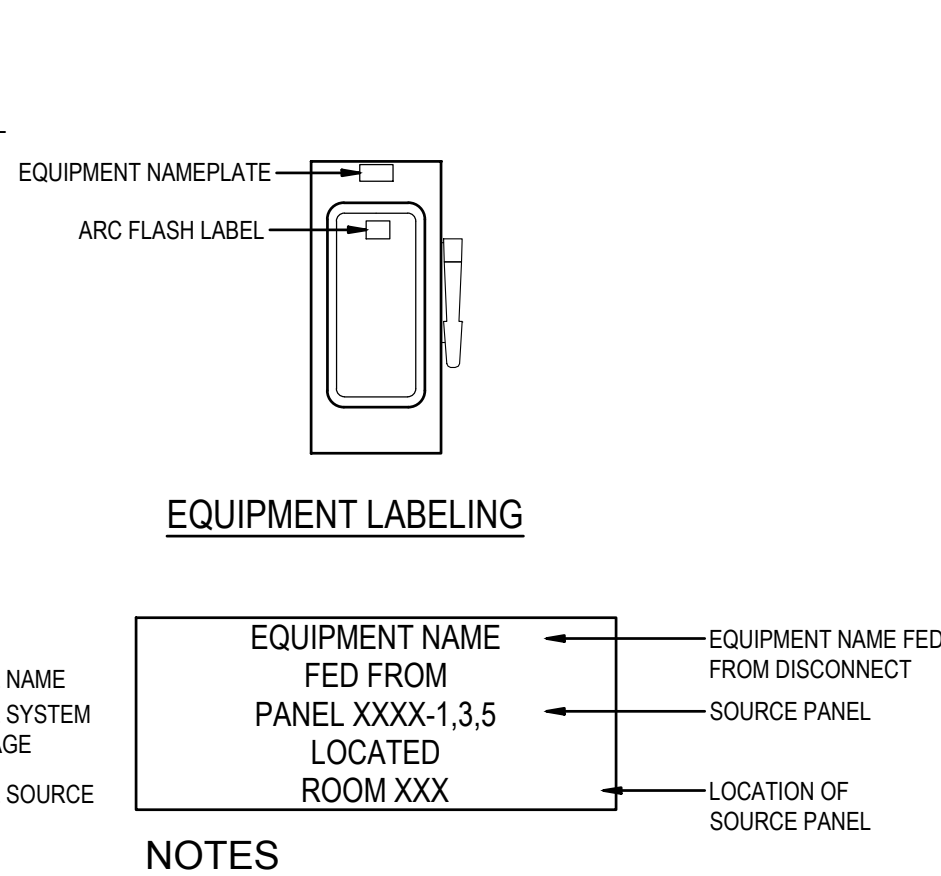
NOTES

1. PROVIDE LABEL FOR ALL PANELS FEED FROM A FEEDER
2. NORMAL POWER - 1/4" BLACK LETTERS ON WHITE PANEL
3. EMERGENCY POWER - 1/4" WHITE LETTERS ON RED PANEL

PANELBOARD NAMEPLATES

EQUIPMENT LABELING DETAILS

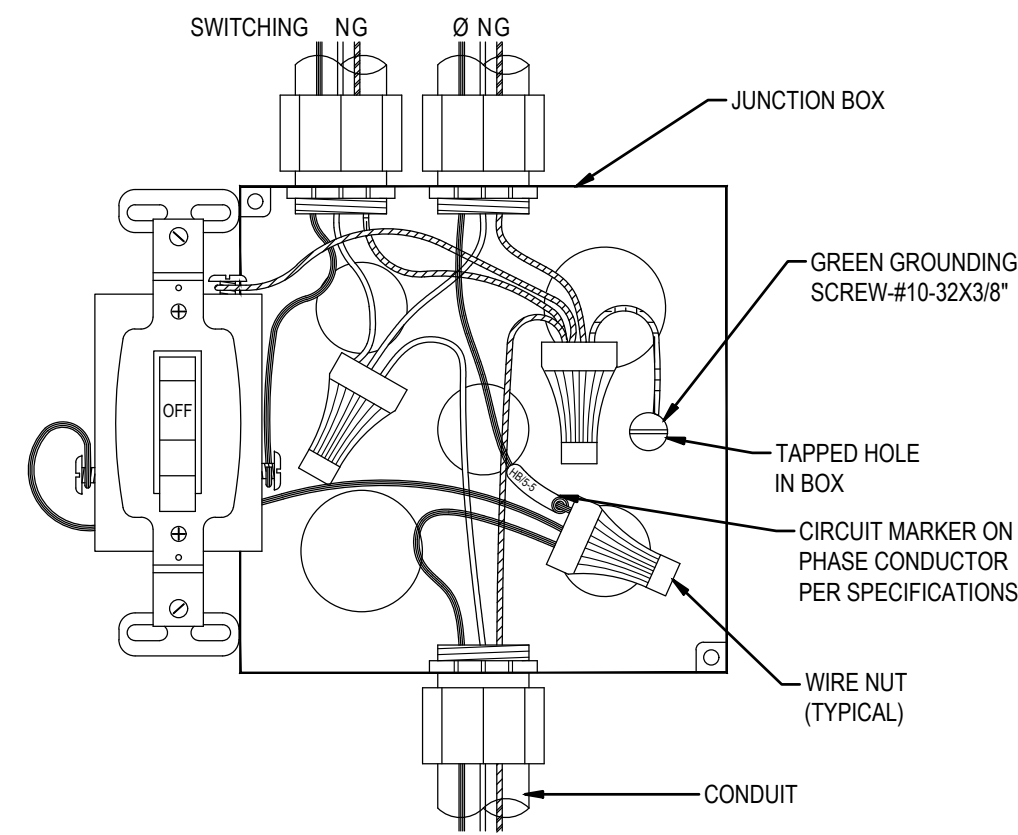
NTS



NOTES

1. NAMEPLATE MUST INDICATE DISCONNECT PURPOSE.
2. NAMEPLATE MUST INDICATE SOURCE AND SOURCE LOCATION.
3. NORMAL POWER - 1/4" BLACK LETTERS ON WHITE PANEL
4. EMERGENCY POWER - 1/4" WHITE LETTERS ON RED PANEL

DISCONNECT NAMEPLATE

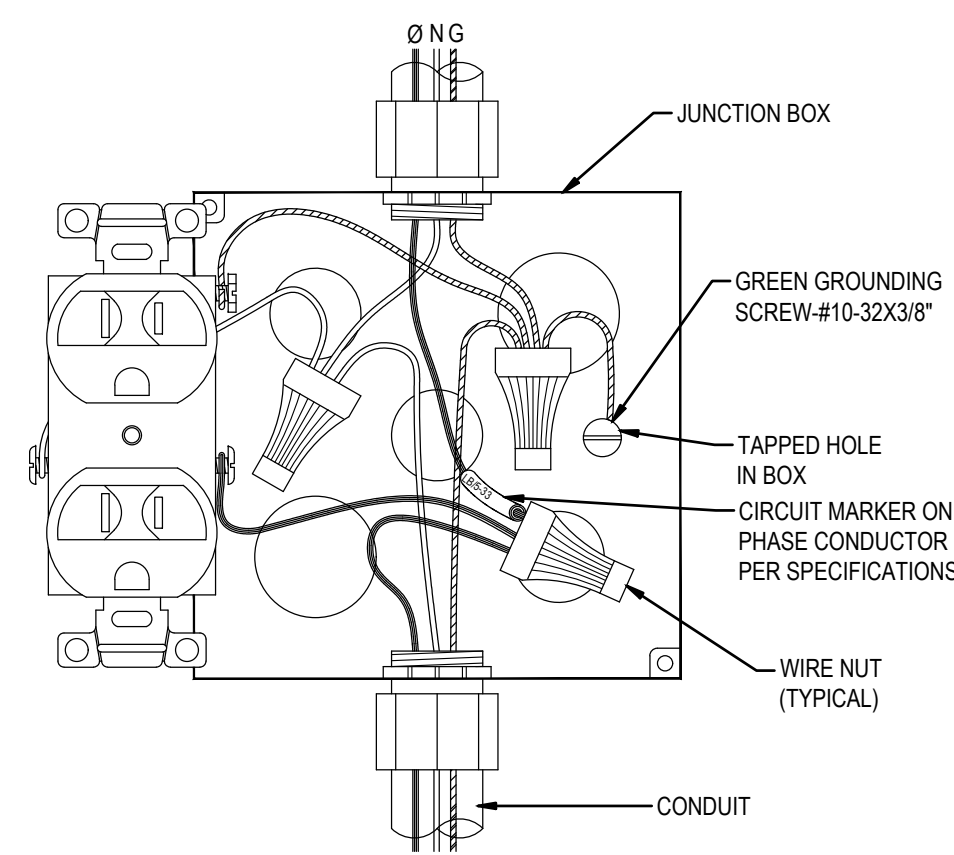


NOTES

1. WIRING DEVICES SHALL NOT BE USED FOR SPLICING. USE A PIGTAIL TO CONNECT EACH DEVICE AS SHOWN.
2. PULL NEUTRAL CONDUCTOR TO SWITCH LOCATION AS REQUIRED BY 402.2(C)

TYPICAL SWITCH WIRING

NTS

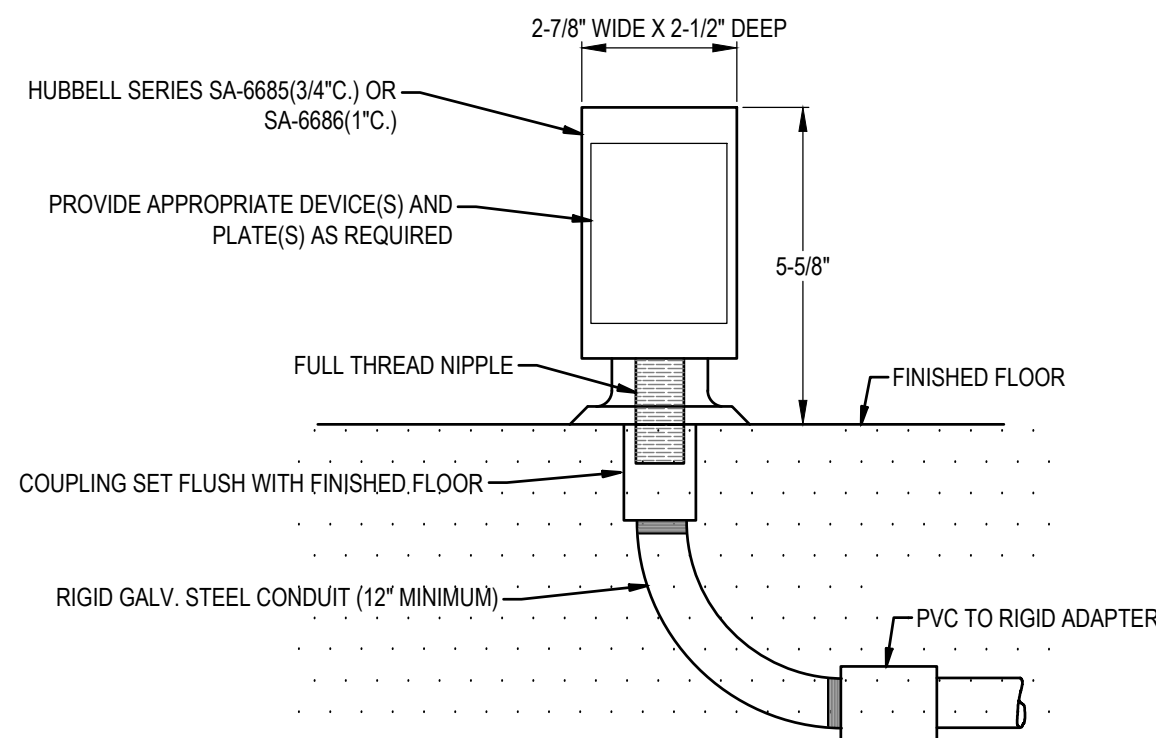


NOTES

1. WIRING DEVICES SHALL NOT BE USED FOR SPLICING. USE A PIGTAIL TO CONNECT EACH DEVICE AS SHOWN.

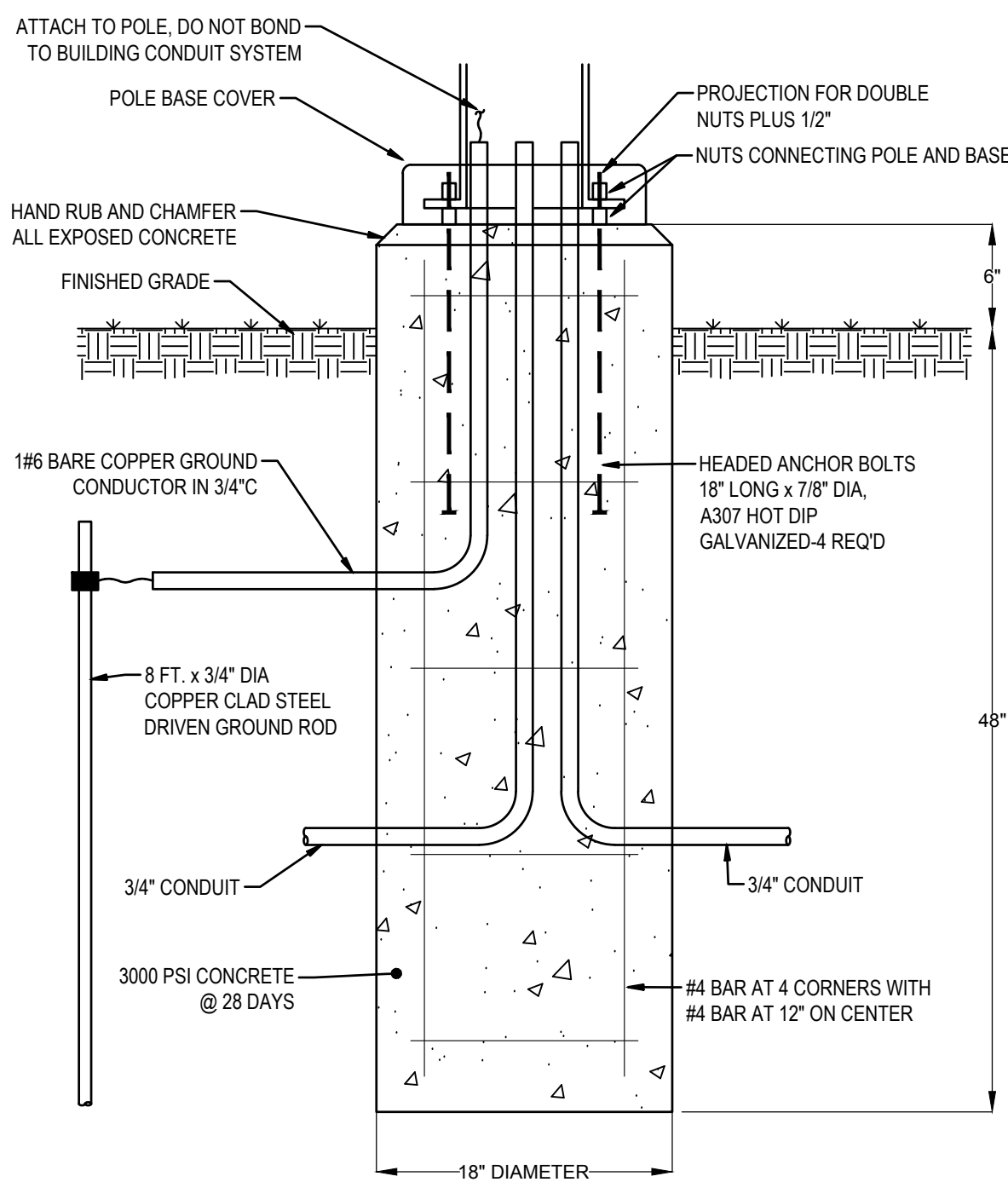
TYPICAL RECEPTACLE WIRING

NTS



RECEPTACLE - FLOOR STUB-UP

NTS



CONCRETE POLE BASE FOR FIXTURE "PLxx"

NTS



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26004

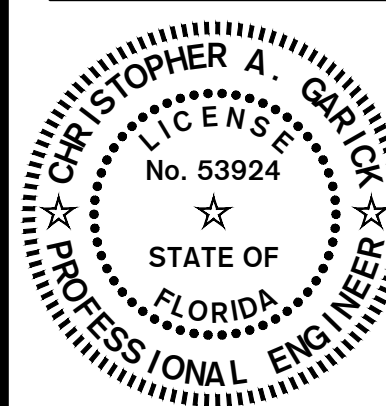
Job No.

15 SEPT 2026

DETAILS ELECTRICAL

Okaloosa County
Facilities Warehouse

5489 OLD BETHEL ROAD
CRESTVIEW, FLORIDA



DATE:	SEPT 15, 2026
DRAWN BY:	RENGLE / C/PASTORIUS
PROJECT NO:	2601
REVISIONS:	

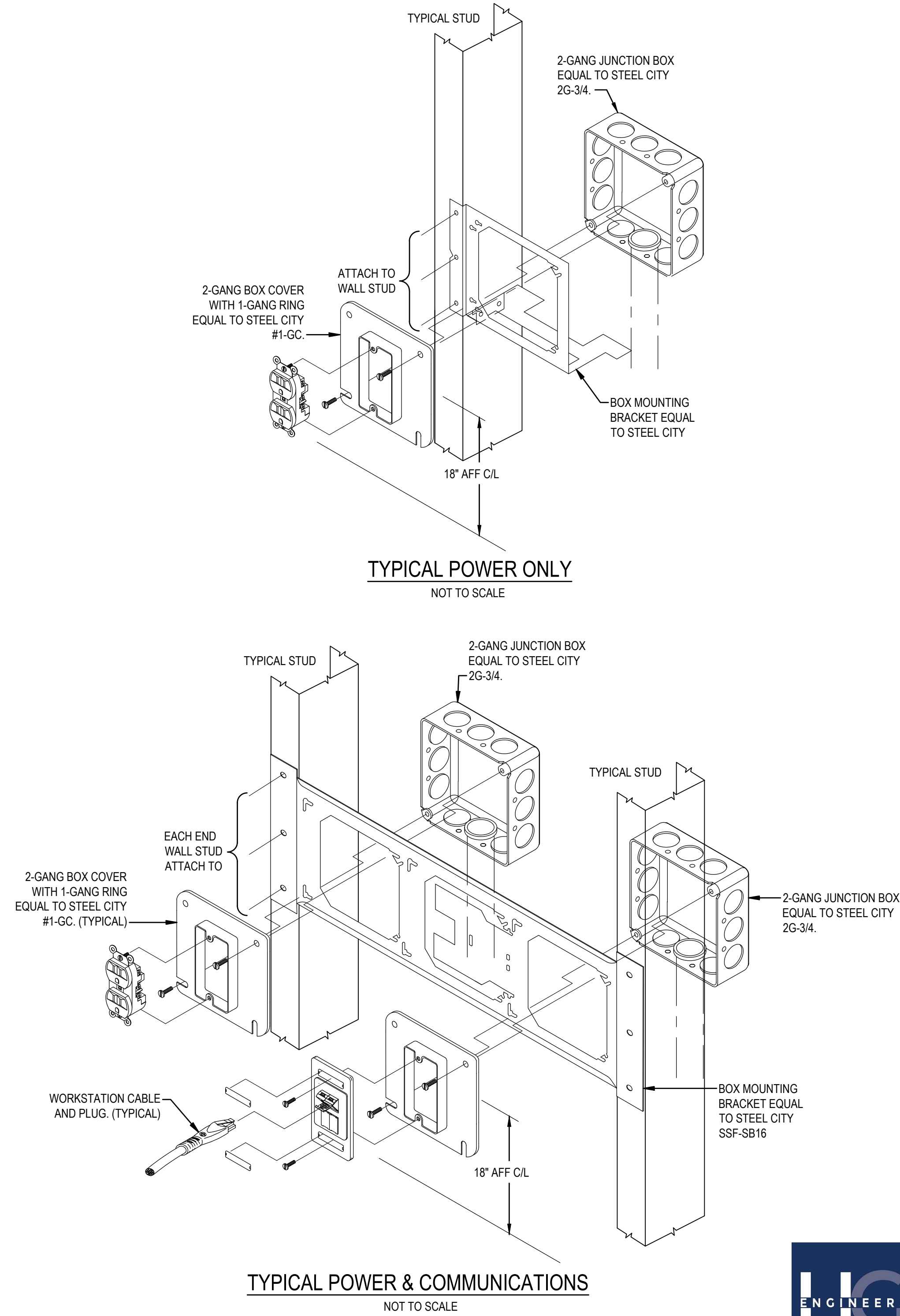
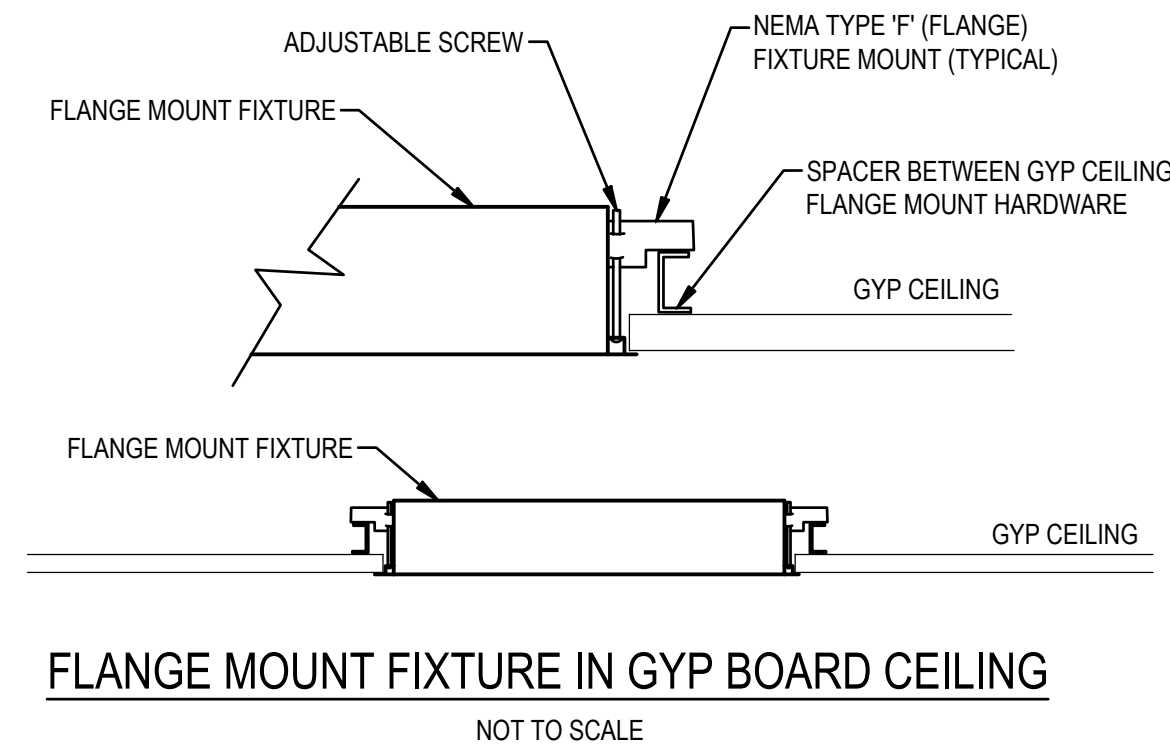
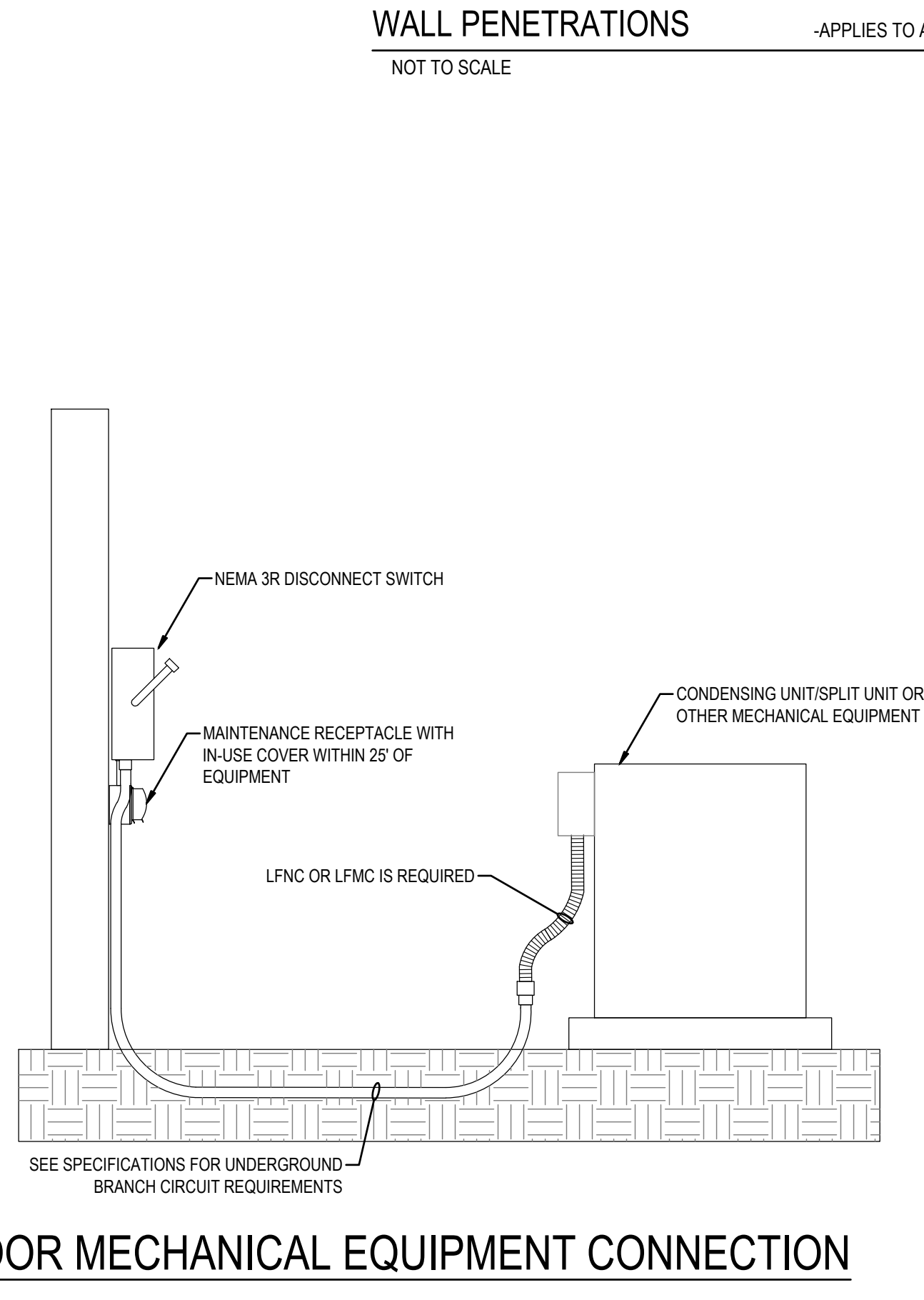
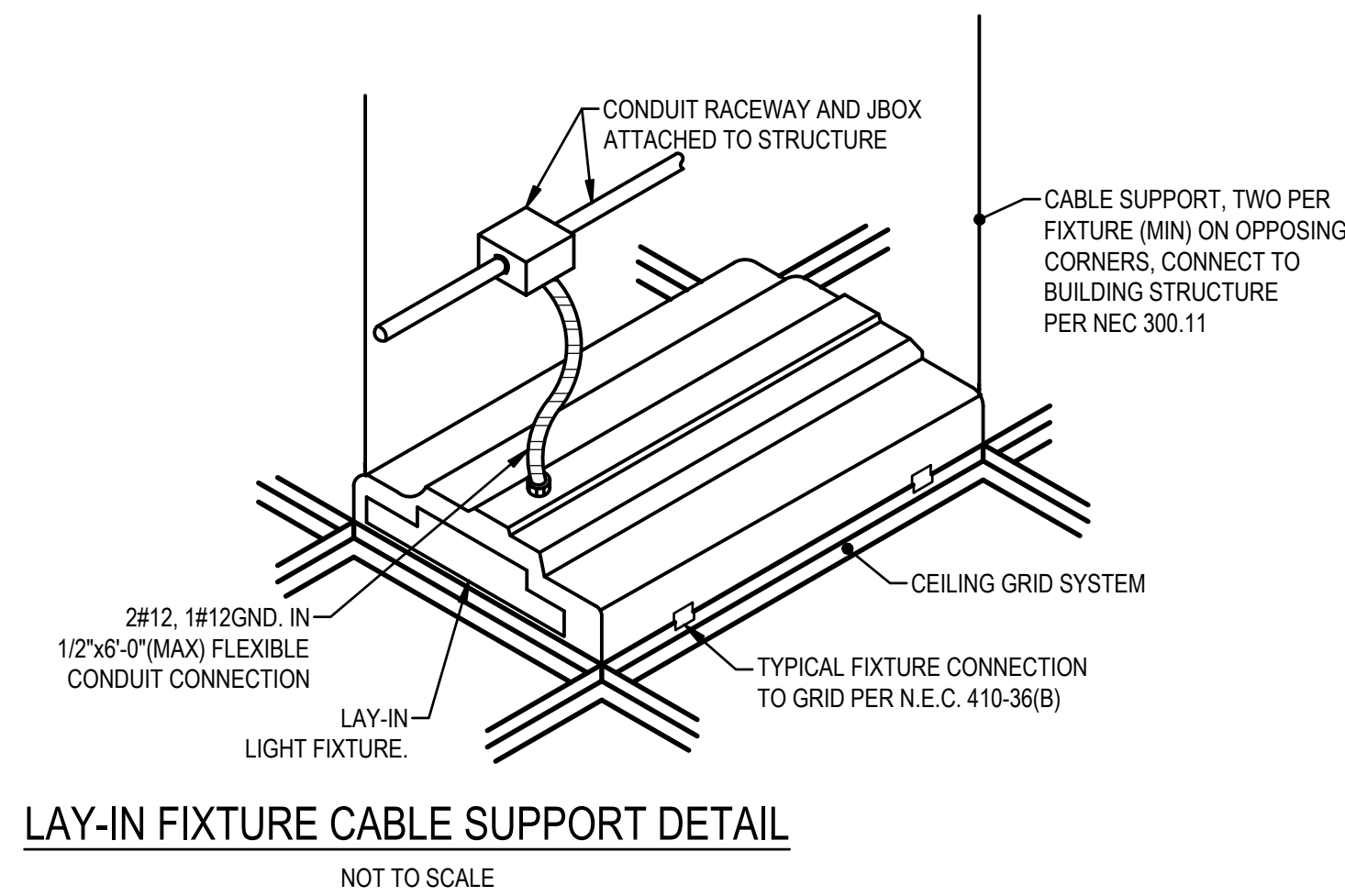
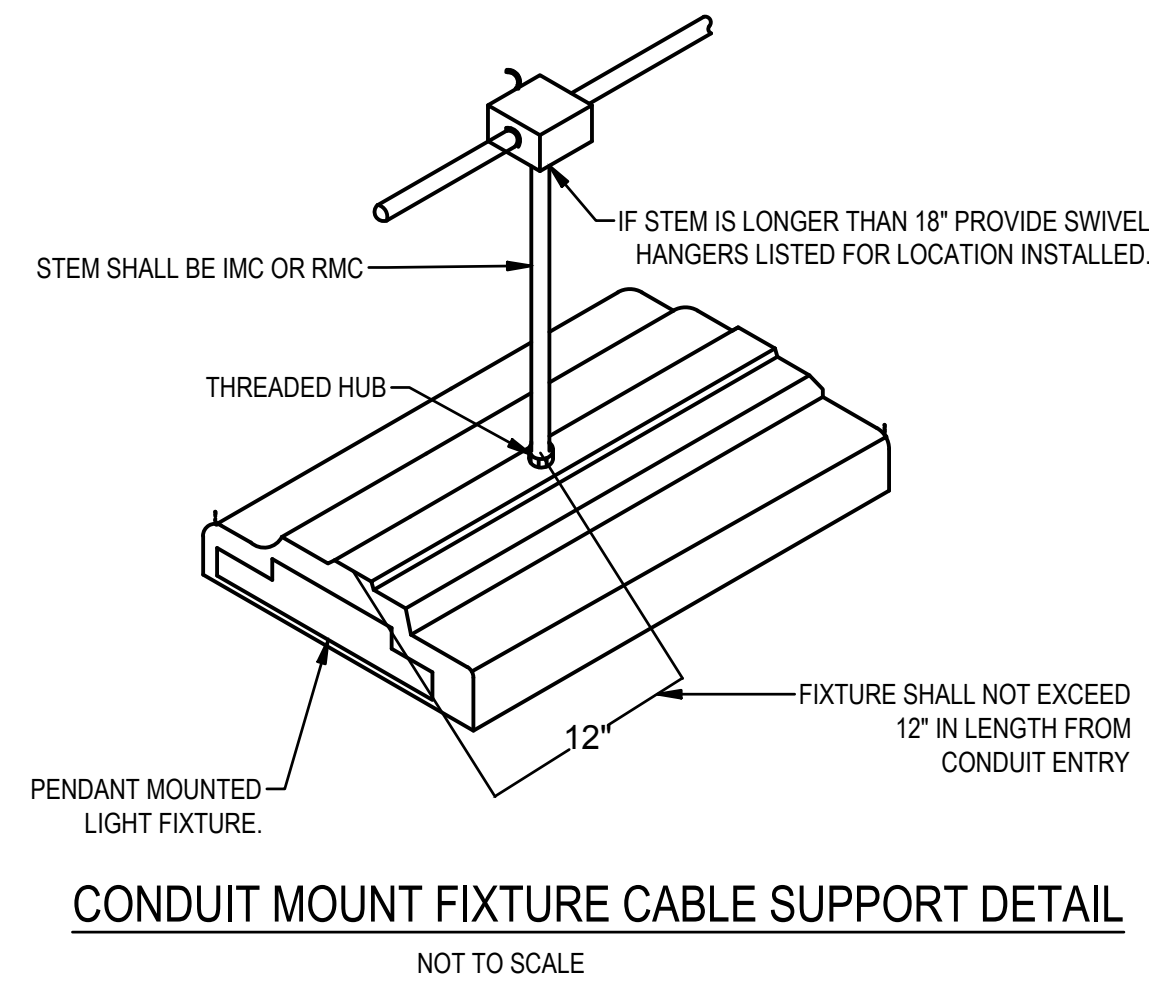
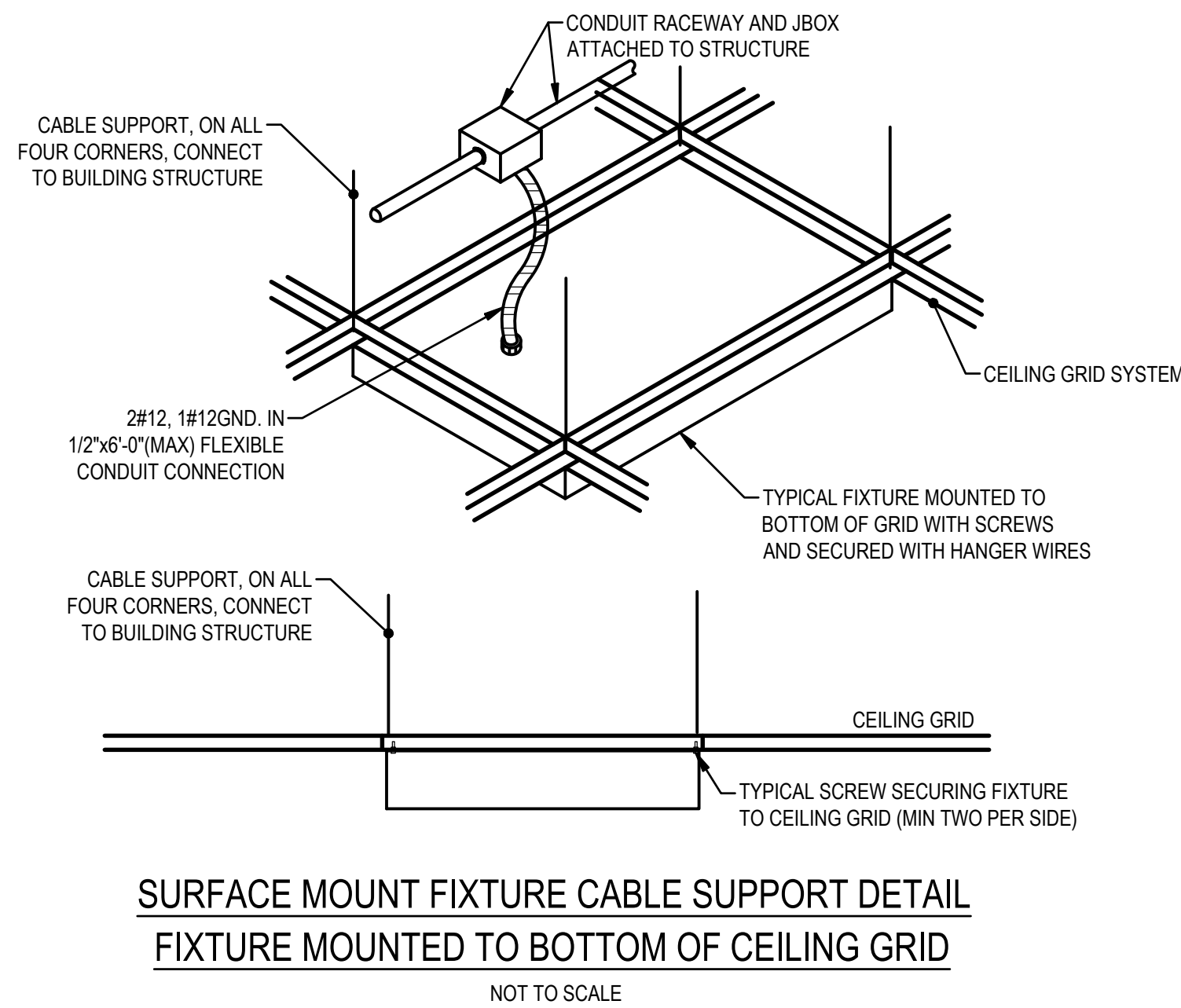
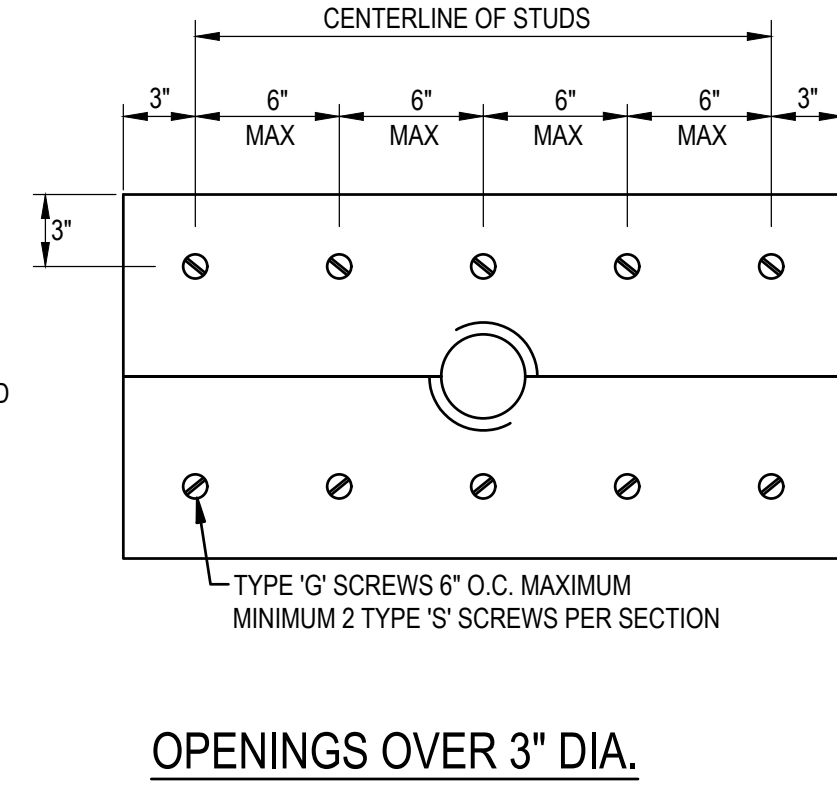
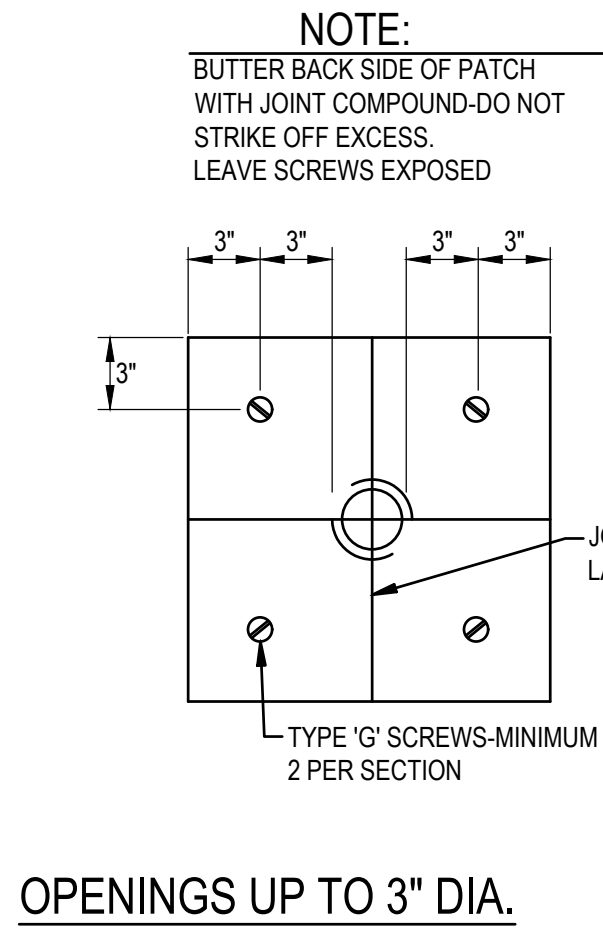
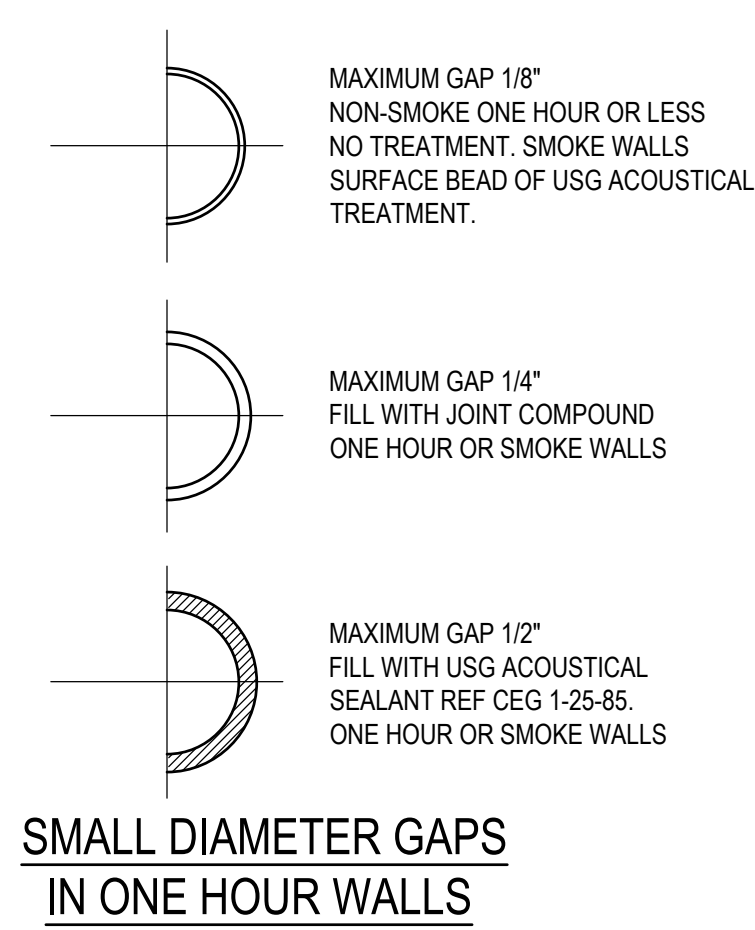
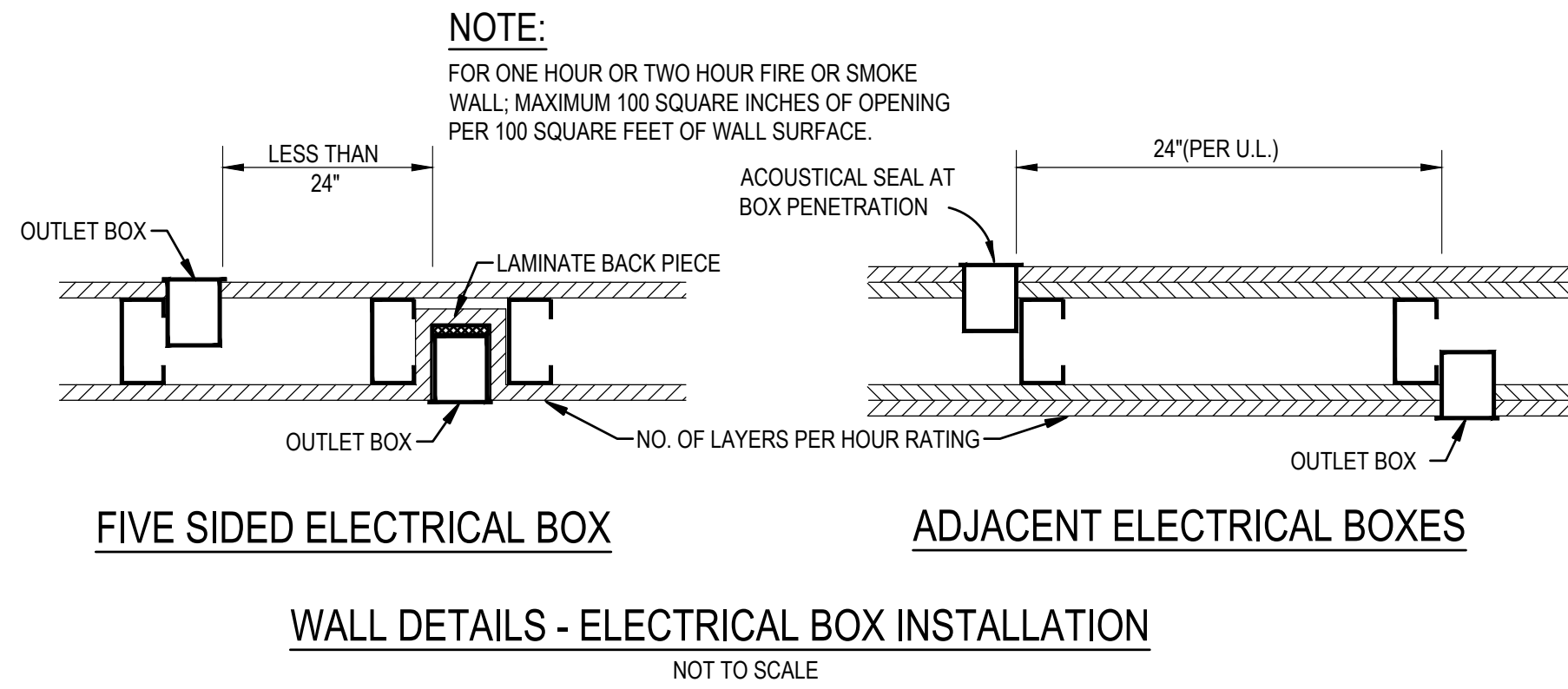
FOR BID

E4.00

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RENGLE - 8:56 AM - 54.01 DETAILS ELECTRICAL.dwg



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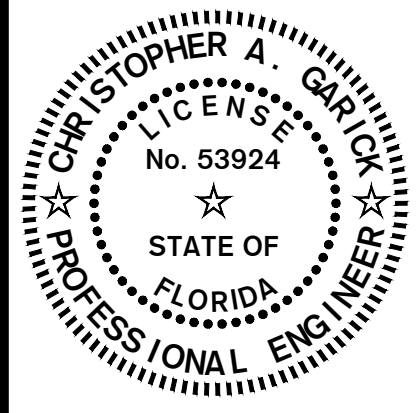
26004
Job No.

15 SEPT 2026

DETAILS ELECTRICAL

Okaloosa County
Facilities Warehouse

5489 OLD BETHEL ROAD
CRESTVIEW, FLORIDA



DATE:	SEPT 15, 2026
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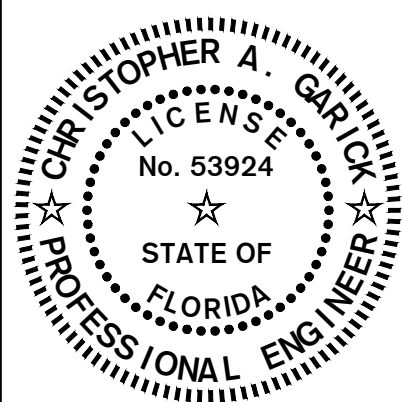
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- ## INSULATED GROUNDING BAR DETAIL



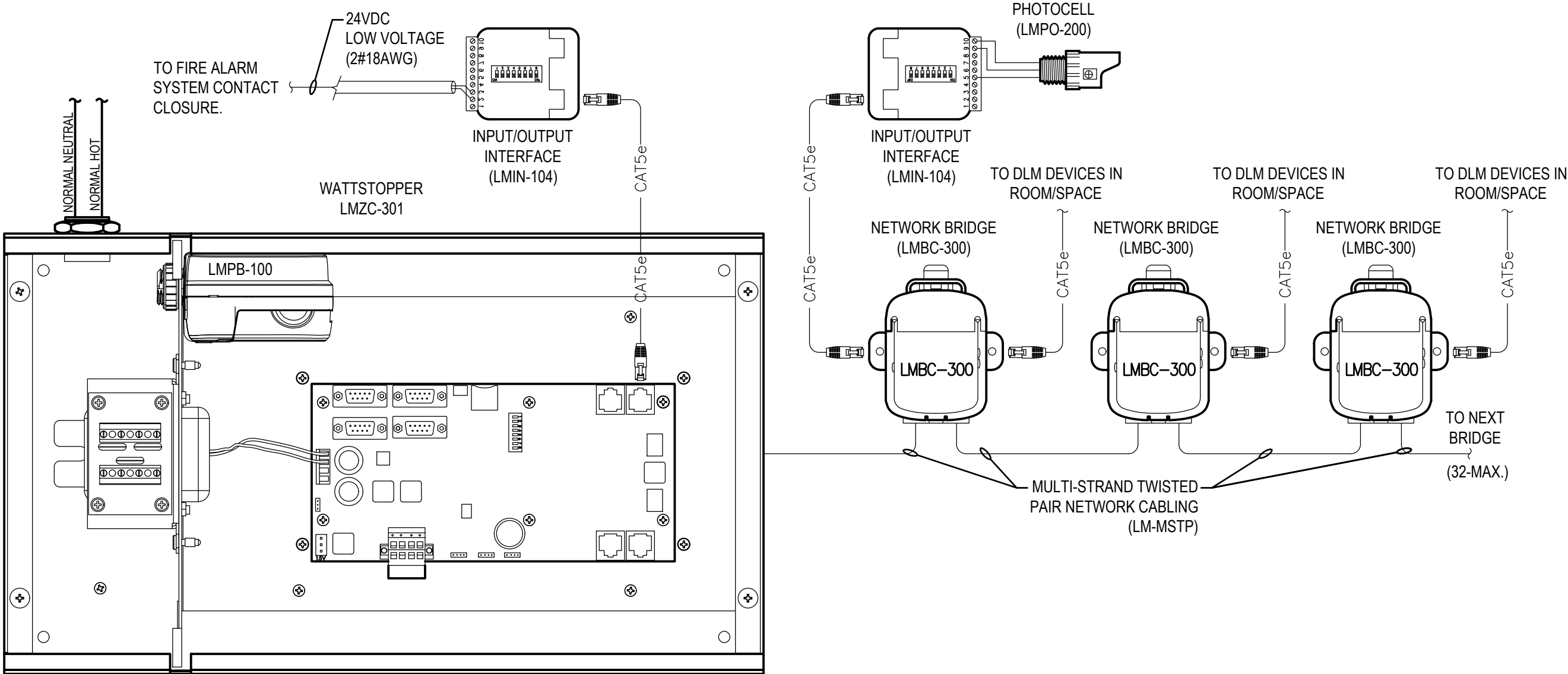
- ① INSTALL GROUND(ED) (NEUTRAL) CONDUCTOR SAME SIZE AS THE LARGEST PHASE CONDUCTOR IF THE LINE-TO-NEUTRAL LOAD EXCEEDS 5% OF THE CONNECTED LOAD. IF NEUTRAL LOAD IS SMALLER, INSTALL THE NEC MINIMUM GROUND(ED) CONDUCTOR.
- ② INSTALL GROUNDING ELECTRODE CONDUCTOR, SIZED BASED ON NEC TABLE 250-66 USING THE SERVICE PHASE CONDUCTOR SIZE, BUT NOT SMALLER THAN NO.4.
- ③ INSTALL EQUIPMENT GROUNDING CONDUCTOR SIZED BASED ON NEC TABLE 250-122 USING THE FEEDER OVERCURRENT DEVICE SIZE.
- ④ 10 FOOT MINIMUM X 3/4" DIAMETER COPPER CLAD STEEL SECTIONAL DRIVEN GROUND ROD.
- ⑤ INSTALL BONDING JUMPER WIRE THAT IS SIZED BASED ON NEC TABLE 250-66 OR 250-282(1) USING THE SERVICE OR SEPARATELY-DERIVED SYSTEM PHASE CONDUCTOR SIZE.
- ⑥ INSTALL A COPPER GROUNDING BAR IN EACH TELECOMMUNICATIONS ROOM. CONNECT TO THE "MAIN GROUNDING ELECTRODE GROUND BAR" USING 600V INSULATED #4 COPPER CABLE AND COMPRESSION SPADE LUGS.
- ⑦ INSTALL A "MAIN GROUND ELECTRODE GROUND BAR" FOR SINGLE POINT CONNECTIONS. LOCATE AT AN ACCESSIBLE POINT NEAR THE SERVICE ENTRANCE EQUIPMENT. MAKE CONNECTIONS TO THE GROUND ELECTRODE CONDUCTOR USING IRREVERSIBLE CONNECTORS OR EXOTHERMIC WELDS. MAKE OTHER CONNECTIONS TO THE GROUND BAR USING TWO-HOLE COMPRESSION SPADE LUGS THAT MEET IEEE 837 REQUIREMENTS. LABEL EACH CONNECTION TO THE GROUND BAR



LIGHTING FIXTURE SCHEDULE										
Project:	#26004 - Okaloosa Facilities Warehouse-Crestview									
Note:	Per electrical specifications, required alternate fixtures shall be submitted to the engineer for prior approval a minimum of (10) ten business days prior to bid date (unless indicated otherwise). Any required alternate fixtures not submitted for prior approval will not be reviewed.									
Luminaire Designation	Manufacturer	Catalog Number	Connected Voltage	Luminaire Load (va)	Lamping Source	Color Rendering Index (CRI)	Kelvin Temperature	Mounting	Comments	Prior Approved Equal Required
H8	H.E. WILLIAMS	GP2L200850-W-DL-GP2-SMK-DRV-UNV	120V	157VA	LED	80CRI	5000K	CEILING SURFACE		NO
H8E	H.E. WILLIAMS	GP2L200850-W-EM/12W-DL-GP2-SMK-DRV-UNV	120V	157VA	LED	80CRI	5000K	CEILING SURFACE		NO
L24	DAY-BRITE	2FP248L840-4-DS-UNV-DIM	120V	37VA	LED	80CRI	4000K	CEILING LAY-IN		NO
L24E	DAY-BRITE	2FP248L840-4-DS-UNV-DIM-BSL10LST	120V	37VA	LED	80CRI	4000K	CEILING LAY-IN		NO
L24F	DAY-BRITE	2FP248L840-4-DS-UNV-DIM-FMA24	120V	37VA	LED	80CRI	4000K	CEILING FLANGE		NO
L24FE	DAY-BRITE	2FP248L840-4-DS-UNV-DIM-BSL10LST-FMA24	120V	37VA	LED	80CRI	4000K	CEILING FLANGE		NO
PL2	GADRCO	GL18-9L-730-T2M-UNV-BZ	120V	54VA	LED	70CRI	3000K	POLE ARM MOUNT 20'-0" AFG	EPA = 1.2, WEIGHT = 31LBS	NO
PL2S	GADRCO	GL18-9L-730-T2M-UNV-HIS-BZ	120V	54VA	LED	70CRI	3000K	POLE ARM MOUNT 20'-0" AFG	EPA = 1.2, WEIGHT = 31LBS	NO
PL5	GADRCO	GL18-18L-730-T5W-UNV-BZ	120V	115VA	LED	70CRI	3000K	POLE ARM MOUNT 20'-0" AFG	EPA = 1.2, WEIGHT = 31LBS	NO
2PL5	GADRCO	(QTY. 2) GL18-18L-730-T5W-UNV-BZ	120V	230VA	LED	70CRI	3000K	POLE TWIN ARM MOUNT 20'-0" AFG	(TOTAL QTY. 2) EPA = 2.4, WEIGHT = 62LBS	NO
WP	GADRCO	121-18L-530-WV-G4-3-UNV-DD-BZ	120V	28VA	LED	70CRI	3000K	BACK WALL 8'-0" AFF		NO
POLE FOR 'PL2', 'PL2S', 'PL5'	VALMONT	S-200060606Y4-D1-DOB	N/A	N/A	N/A	N/A	N/A	CONCRETE ANCHOR BASE	EPA @ 160MPH = 1.2 MAX WEIGHT 100LBS	NO
POLE FOR '2PL5'	VALMONT	S-200060606Y4-D2-DOB	N/A	N/A	N/A	N/A	N/A	CONCRETE ANCHOR BASE	EPA @ 160MPH = 2.8 MAX WEIGHT 100LBS	NO
X	H.E. WILLIAMS	EXTR-REM-WHT-SDT-D	120V	N/A	LED	N/A	N/A	BACK WALL ABOVE DOOR		NO
XF	H.E. WILLIAMS	EXITCA-R-AF-BA-AC-SDT-D	120V	N/A	LED	N/A	N/A	BACK WALL ABOVE DOOR		NO

LIGHTING CONTROL GENERAL NOTES

- THE DIAGRAMS ARE NOT INTENDED TO SHOW EXACT QUANTITIES OF DEVICES. REFER TO PLAN FOR ESTIMATED DEVICE QUANTITIES AND LOCATIONS.
- THE LIGHTING CONTROL SYSTEM BASIS OF DESIGN IS WATTSTOPPER DLM PRODUCTS.
- THE LOCAL DEVICE INTERCONNECTIONS FOR ALL LIGHTING CONTROL DEVICES SHALL BE OF THE TOPOLOGY FREE TYPE.
- COLORS FOR ALL DEVICES AND DEVICE COVERS SHALL BE SELECTED BY THE ARCHITECT.
- ALL DATA LINE SWITCHES SHALL INCLUDE CUSTOM ENGRAVED LABEL INDICATING FUNCTION OF SWITCH. COORDINATE EXACT LABEL DESCRIPTIONS WITH OWNER PRIOR TO INSTALLATION.
- PROVIDE ADDITIONAL POWER AND CONTROL MODULES AS RECOMMENDED BY THE SYSTEM SUPPLIER.
- THE DIAGRAMS REPRESENT A TYPICAL SYSTEM AND ARE NOT INTENDED FOR INSTALLATION. SYSTEM SUPPLIER SHALL PROVIDE INSTALLATION DRAWINGS AND WIRING DIAGRAMS.
- E.C. SHALL COORDINATE FIELD PROGRAMMING OF LIGHTING CONTROL SYSTEM WITH SYSTEM PROGRAMMER, SPECIFYING ENGINEER, AND OWNER TO ENSURE PROPER OPERATION AND TIME SCHEDULES.
- ALL EMERGENCY AND EXIT LIGHTING CIRCUITS SHALL BE CONNECTED TO CONTINUOUS POWER SOURCE AHEAD OF RELAY PANEL OR INDIVIDUAL RELAY COMPONENTS.
- INSTALL ALL CEILING SENSORS MINIMUM OF 6FT CLEAR OF DUCT REGISTERS. PROVIDE 6FT. OF SLACK CONDUCTOR TO ALLOW FOR FIELD ADJUSTMENT.
- THE LIGHTING CONTROL AND EMERGENCY LIGHTING SYSTEMS SHALL BE CAPABLE OF BEING ACCESSSED VIA THE LOCAL AREA NETWORK.
- PROGRAMMER / COMMISSIONING AGENT SHALL BE CERTIFIED BY THE EQUIPMENT MANUFACTURER ON THE SYSTEM INSTALLED.
- THE MANUFACTURER CERTIFIED TECHNICIAN WILL MEET ONSITE WITH THE ELECTRICAL CONTRACTORS TO COORDINATE INSTALLATION DETAILS, REVIEW BEST PRACTICES, AND DISCUSS PROJECT SPECIFIC CHALLENGES; PRIOR TO THE INSTALLATION BEING STARTED, ENABLING THE CONTRACTORS TO WORK WITH THE TECHNICIAN TO PREPARE AND MAKE CHANGES UP FRONT.
- THE MANUFACTURER'S LIGHTING SYSTEMS TEAM SHALL WORK ONSITE AFTER FIXTURE AND CONTROLS INSTALLATION IS COMPLETED. THE MANUFACTURER'S AGENT IS TO VERIFY THE PROJECT IS REVIEWED AND CHECKED FOR PROPER WIRING, INSTALLATION AND FUNCTIONALITY OF THE SYSTEM AS A WHOLE. ANY PROBLEMS SHALL BE ADDRESSED AND RESOLVED WITH THE ONSITE CONTRACTORS.
- MANUFACTURER'S TECHNICIANS SHALL MAP OUT THE FIXTURE LOCATIONS AND ADDRESSES WITHIN THE LIGHTING CONTROL SOFTWARE. ASTRONOMIC TIMECLOCK EVENTS, SCENES, AND SCHEDULES ARE PROGRAMMED ACCORDING TO A PRE-DEFINED SCRIPT. THESE EVENTS, SCENES, AND SCHEDULES ARE TESTED AND FINALIZED FOR FINAL APPROVAL BY THE PROJECT'S OWNERSHIP.
- MANUFACTURER'S TECHNICIANS SHALL PROVIDE TRAINING FOR SYSTEM USERS AND THE SYSTEM MAINTENANCE TEAM. THE DETAILS OF THE TECHNOLOGY SHALL BE COVERED FROM A MAINTENANCE AND TROUBLESHOOTING POINT OF VIEW. THIS COVERS THE LIGHTING CONTROL SYSTEM AND ITS CORE FUNCTIONALITY, WITH A FOCUS ON HOW TO EDIT EXISTING SCENES AND ASTRONOMIC LIGHTING EVENTS.
- THE MANUFACTURER'S REPRESENTATIVE SHALL PROVIDE IN-DEPTH TRAINING TO THE END USER ON MANAGING THE SPECIFIC CONTROL SYSTEM, GIVING THEM THE TOOLS AND KNOWLEDGE TO OPERATE THEIR SYSTEM.



TYPICAL BRIDGE DEVICE CONNECTION DETAILS

NTS

Lighting Space and Zones			Sequence of Operations									Low Voltage Switch Matrix (Button Labels to be designated by owner during installation)			
Space Type	Room Number	Target Lighting Level Average (fc)	CONTROL SCENARIOS									CONNECT TO NETWORKED ROOM CONTROLLER		CONNECT TO NON-NETWORKED LOCAL ROOM CONTROL	Remarks
			Manual On	Manual Off	Dimming	Timeclock On	Timeclock Off	Occupancy Sensor On	Vacancy Sensor Off	Photo Sensor On	SL1 (1-Button)	SL1R (1-Button, 1-Rocker)	SLN (Integral Sensor, Line Voltage)		
Enclosed Office	TYPICAL	40	X	X					X				X		
Workroom	105	40	X	X	X				X			X			
Toilet	TYPICAL	15	X	X		X	X	X					X		
Warehouse	102	30	X	X					X			X			
Shop	101	40	X	X					X			X			
Maint. Porch	112	30	X	X											
Parking Area Lighting	n/a	0.5				X	X			X					
Building Exterior Security Lighting	n/a	5				X	X			X					

Lighting Control Sequence of Operations (SOO)

This Sequence of Operations (SOO) describes the functional requirements for the lighting control system designed to comply with the Florida Building Code (FBC), 8th Edition (2023), which incorporates relevant provisions from the International Energy Conservation Code (IECC) 2021 and ASHRAE 90.1-2019 for energy-efficient lighting controls. The system shall integrate zone-based control, timeclock scheduling, and photocell control for exterior lighting. The lighting control system shall be a networked, digital system (e.g., BACnet or equivalent) capable of monitoring, overriding, and logging operations.

1. General System Requirements

System Architecture: The lighting control system shall consist of centralized controllers, zone relays, dimming modules, sensors, photosensors, and timeclocks. All components shall be UL-listed and compliant with FBC Section C405 (Lighting Systems).

Manual Overrides: Local manual switches shall be provided in each zone for occupant override, limited to 2 hours per override per FBC requirements, after which automatic controls resume.

Commissioning: Post-installation commissioning shall verify all sequences, including calibration of sensors and interfaces, per FBC energy code commissioning requirements.

2. Dimming Control

Dimming Functionality: All interior luminaires shall support continuous dimming from 100% to 10% light output (or lower if specified), using 0-10V, DALI, or DMX protocols.

3. Timeclock Control

Timeclock Integration: A astronomical timeclock (accounting for day/light saving time and location-based sunrise/sunset) shall be integrated into the central controller.

Operation:

Holiday and Exception Scheduling: Programmable for holidays, weekends, or special events (as required by owner).

4. Photocell Control for Exterior Lighting

Photocell Sensors: Exterior photocells (astronomical or standard) shall be mounted to detect ambient light levels, compliant with FBC C405.2.7 for exterior lighting.

Operation:

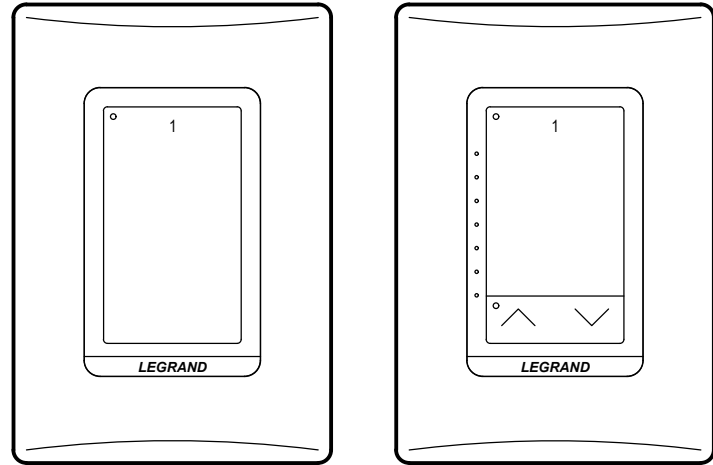
On/Off Control: Exterior lights (e.g., parking lots, facades) shall turn on when ambient light falls below setpoint (e.g., 1-5 fc at dusk) and off above setpoint (e.g., at dawn), with astronomical override for seasonal accuracy.

Timeclock Integration: Photocell shall work in tandem with timeclock to prevent operation during daylight hours.

5. System Overrides and Priorities

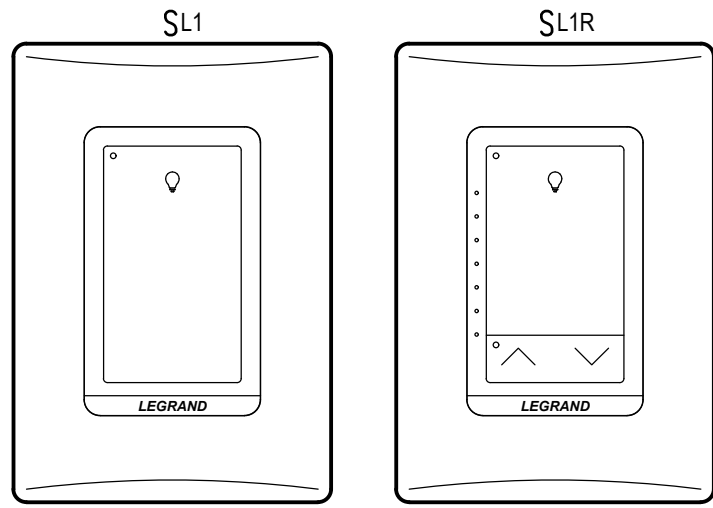
Priority Hierarchy:

- Manual Overrides (temporary).
- Timeclock Scheduling.



TYPICAL SWITCH BUTTON COUNT ARRANGEMENTS

NTS



TYPICAL SWITCH BUTTON LABELING DEFAULT OPTIONS

NTS

GENERAL NOTES

- SWITCH BUTTON LABELING INDICATES A DEFAULT SCHEME. OWNER TO PROVIDE ACTUAL LABELING DURING THE CONSTRUCTION PHASE OF THIS PROJECT. IF THE OWNER DOES NOT MAKE ANY DECISION, THEN THE DEFAULT LABELING MAY BE UTILIZED. VERIFY WITH OWNER PRIOR TO PROCEEDING WITH ORDERING OF ANY AND ALL BUTTON ENGRAVING. REFER TO SPECIFIC DETAILS FOR ROOM SPACE LABELING REQUIREMENTS.



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26004

Job No.

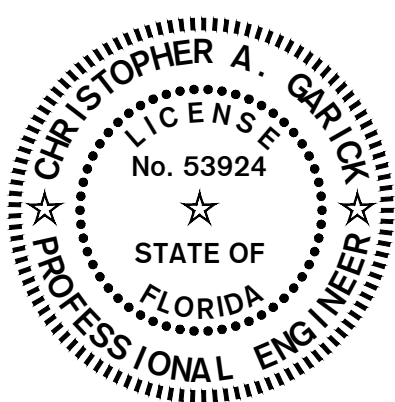
15 SEPT 2026

LIGHTING CONTROLS
DETAILS AND
SCHEDULES

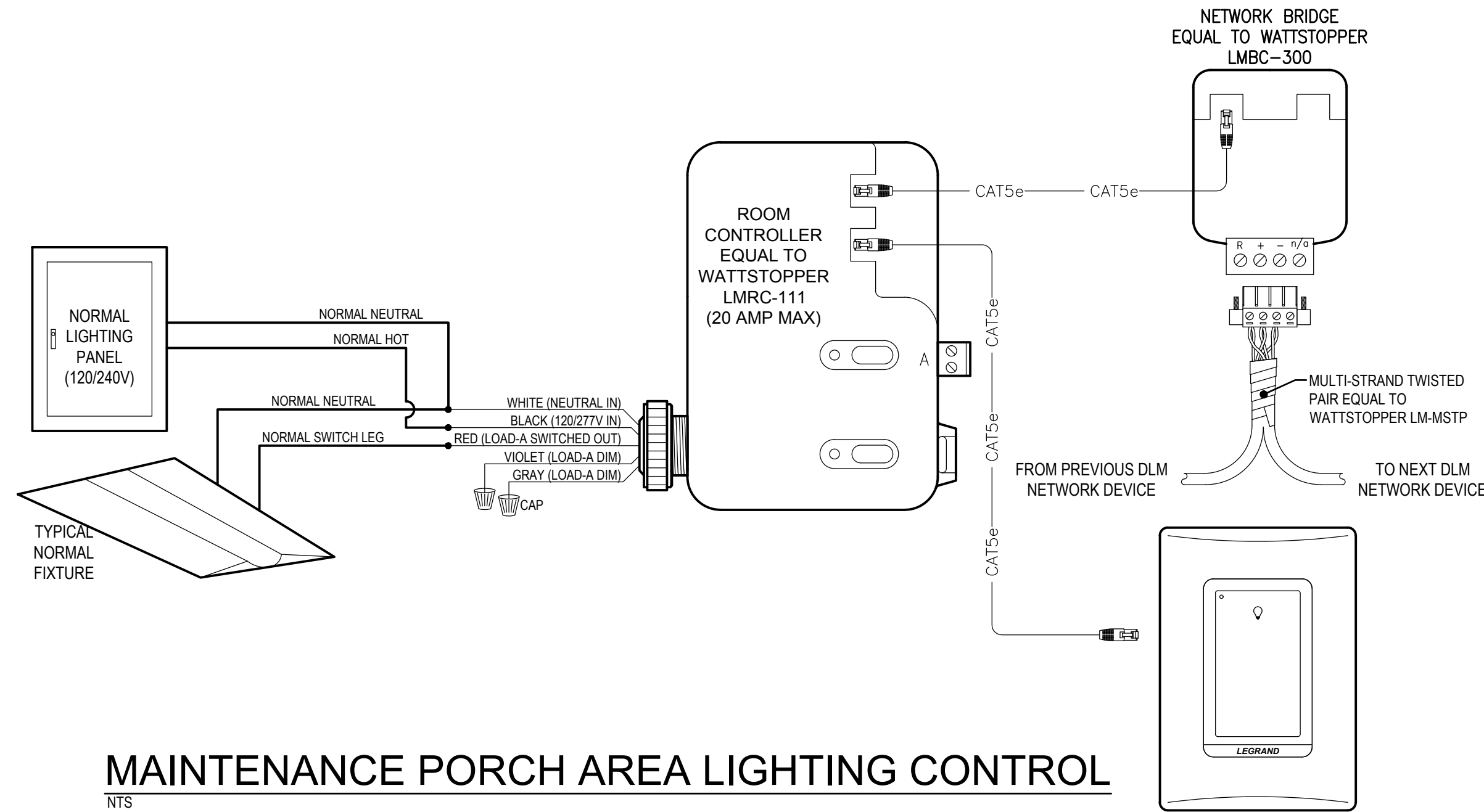
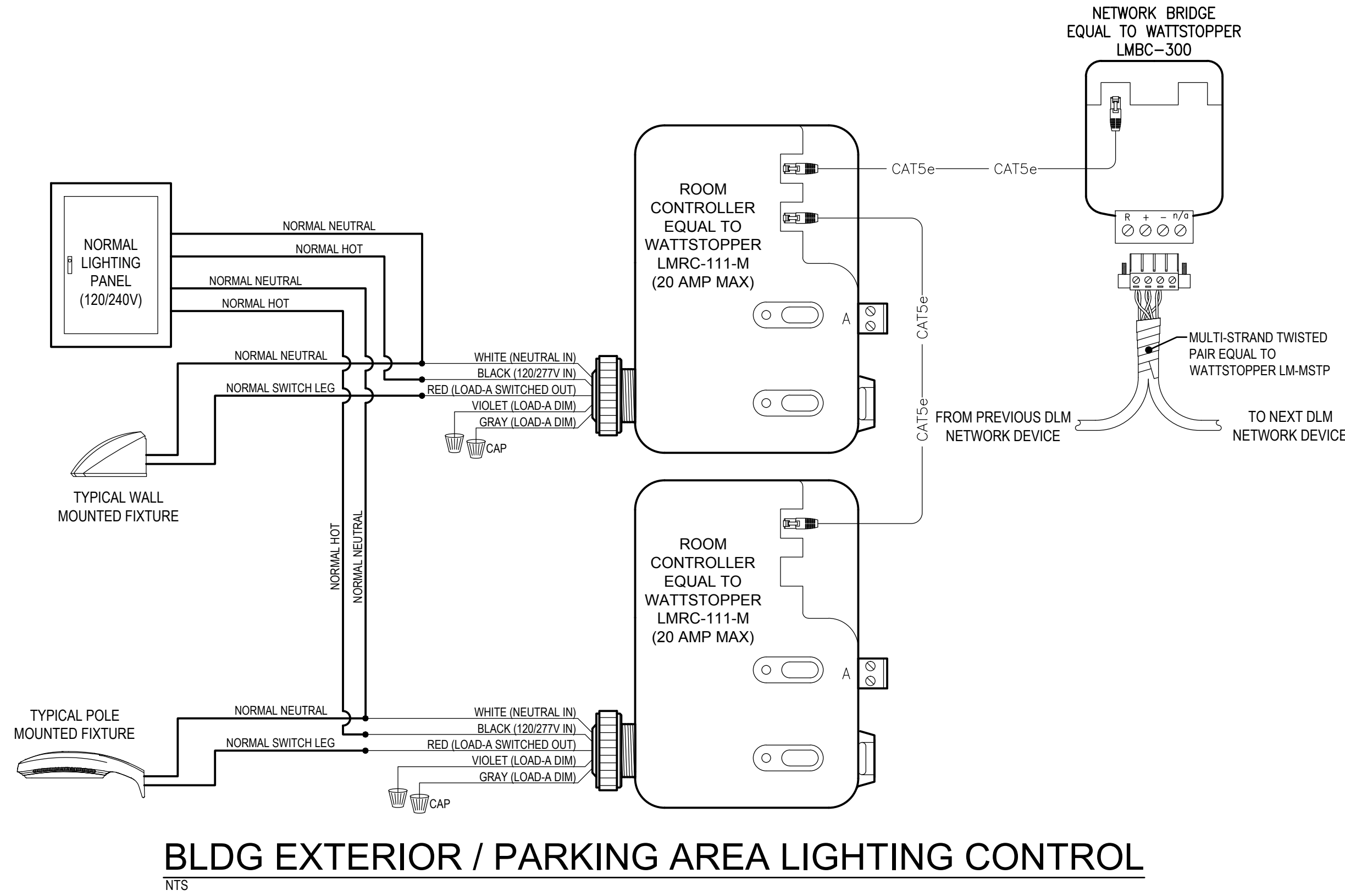
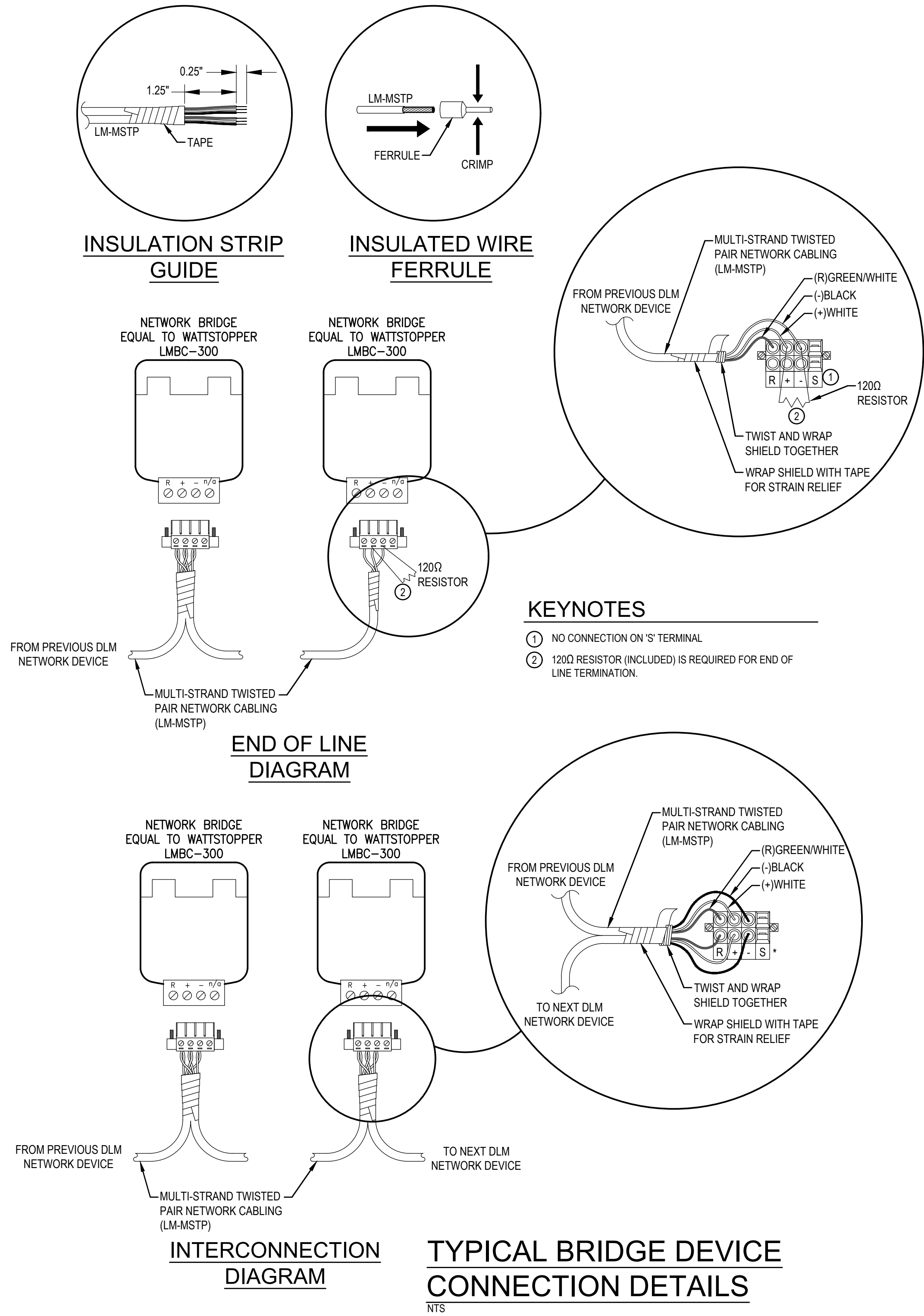
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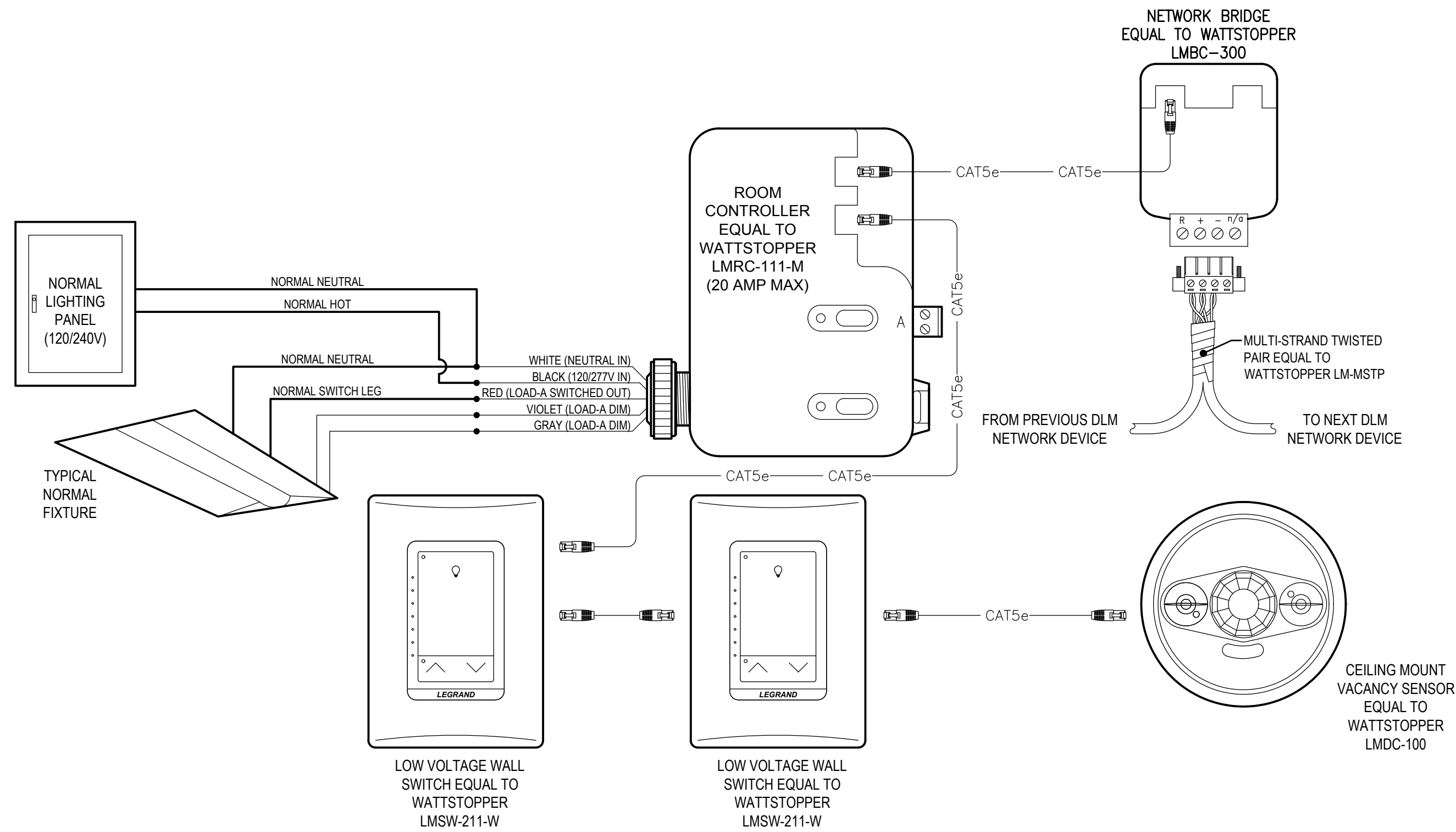
Okaloosa County
Facilities Warehouse

5489 OLD BETHEL ROAD
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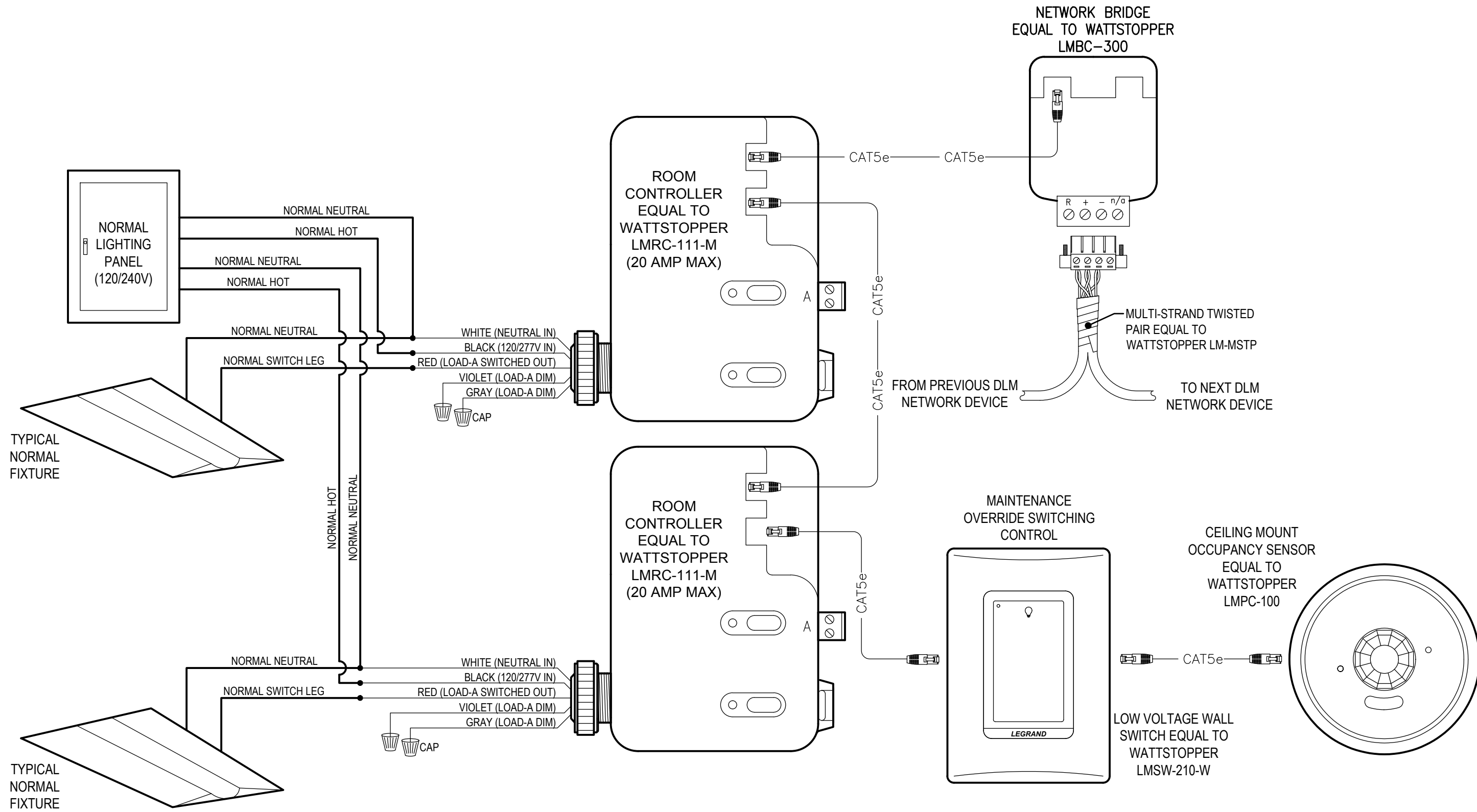
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PROJECT NO: 2601
REVISIONS:
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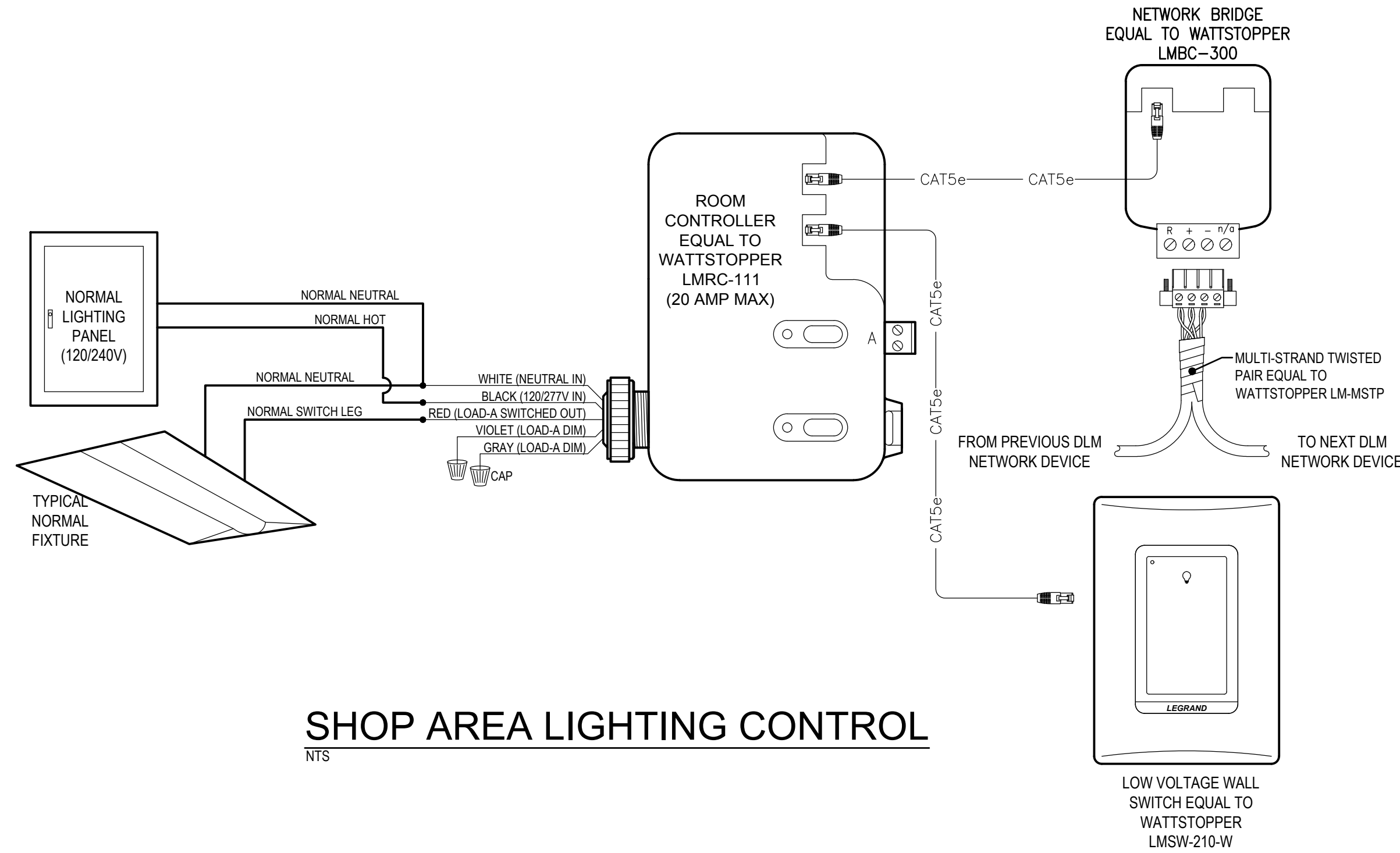
WORKROOM AREA NORMAL LIGHTING
(SWITCHING) CONTROL WITH VACANCY
SENSOR, AND SWITCH INPUT

NTS



WAREHOUSE AREA LIGHTING CONTROL

NTS



SHOP AREA LIGHTING CONTROL

NTS

MAIN DISTRIBUTION PANEL

MDP		SYSTEM		240/120V		1Ø		3W	
		RATING		600A		M.C.B.		22,000 AIC MINIMUM	
		ENCLOSURE		NEMA 1		SURFACE MOUNT			
		OPTIONS BOLT ON BREAKERS							
CKT #	SERVING	CKT BKR		CONNECTED LOAD (VA)		CKT BKR		SERVING	CKT #
		TRIP	POLE			POLE	TRIP		
1	PANEL-A	175	2	24993	53765	2	300	PANEL-SH	2
3	---	-	-	-	-	-	-	---	4
5	AHU-1	80	2	16664	6032	2	60	HP-1	6
7	---	-	-	-	-	-	-	---	8
9	ELECTRIC WATER HEATER (EWH-1)	30	2	4500	2400	1	20	EXHAUST FAN (EF-5)	10
11	---	-	-	-	2400	1	20	EXHAUST FAN (EF-5)	12
13	CU-2/AHU-2	15	2	1560	1560	2	15	CU-3/AHU-3	14
15	---	-	-	-	-	-	-	---	16
17	IRH-1	30	1	2304	0	1	20	SPARE	18
19	SPARE	20	1	0	0	1	20	SPARE	20
21	SPACE ONLY	-	1	-	0	2	60	SURGE PROTECTIVE DEVICE	22
23	SPACE ONLY	-	1	-	-	-	-	---	24
TOTAL CONNECTED LOAD = 116178 VA / 240 = 484.1 A									
NOTES: * PROVIDE 'LSI' TRIP UNIT MAIN BREAKER									

SHOP POWER PANEL

SH		SYSTEM		240/120V		1Ø		3W	
		RATING		300A		M.C.B.		10,000 AIC MINIMUM	
		ENCLOSURE		NEMA 1		SURFACE MOUNT			
		OPTIONS BOLT ON BREAKERS							
CKT #	SERVING	CKT BKR		CONNECTED LOAD		CKT BKR		SERVING	CKT #
		TRIP	POLE	(VA)		POLE	TRIP		
1	REC - SHOP 101	30	2	5760	5760	2	30	REC - SHOP 101	2
3	---	-	-	-	-	-	-	---	4
5	CEILING REC - SHOP 101	30	2	5760	5760	2	30	REC - SHOP 101	6
7	---	-	-	-	-	-	-	---	8
9	CEILING REC - SHOP 101	30	2	5760	5760	2	30	REC - SHOP 101	10
11	---	-	-	-	-	-	-	---	12
13	EXHAUST FAN	20	2	1664	5760	2	30	AIR COMPRESSOR	14
15	---	-	-	-	-	-	-	---	16
17	REC / EXT. REC - SHOP 101	20	1	720	360	1	20	CEILING REC - SHOP 101	18
19	REC - SHOP 101	20	1	180	360	1	20	CEILING REC - SHOP 101	20
21	REC - SHOP 101	20	1	180	360	1	20	CEILING REC - SHOP 101	22
23	REC - SHOP 101	20	1	180	540	1	20	REC - SHOP 101	24
25	REC - SHOP 101	20	1	180	900	1	20	REC / EXT. REC - SHOP 101	26
27	REC - SHOP 101	20	1	180	1413	1	20	LTS - SHOP 101	28
29	IRH-2	20	1	1728	4500	2	30	ELECTRIC WATER HEATER (EWH-2)	30
31	SPARE	20	1	0	-	-	-	---	32
33	SPARE	20	1	0	0	1	20	SPARE	34
35	SPARE	20	1	0	0	1	20	SPARE	36
37	SPARE	20	1	0	0	1	20	SPARE	38
39	SPACE ONLY	-	1	-	0	2	30	SURGE PROTECTIVE DEVICE	40
41	SPACE ONLY	-	1	-	-	-	-	---	42
TOTAL CONNECTED LOAD =				53765 VA		/ 240		= 224.0 A	
NOTES: * PROVIDE 'LSI' TRIP UNIT MAIN BREAKER									

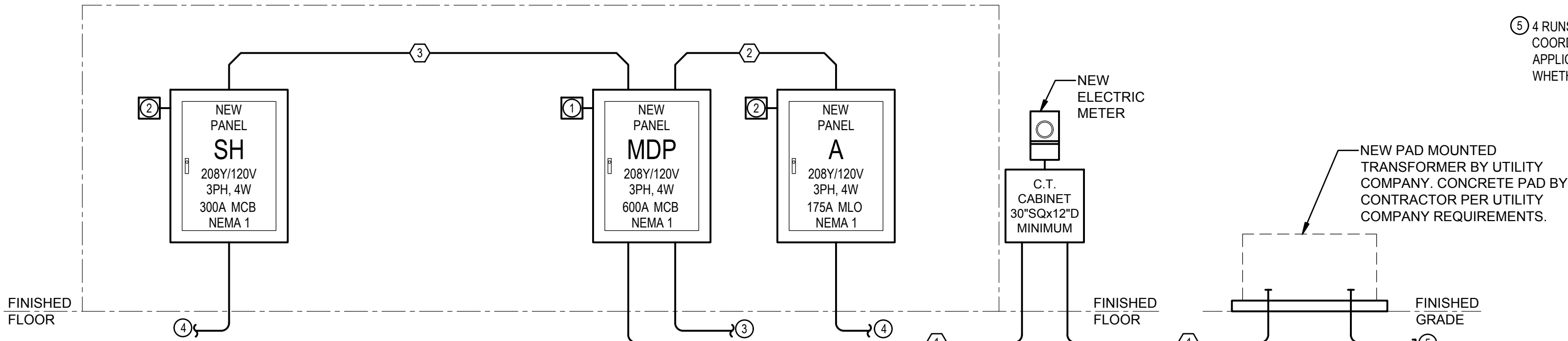
POWER PANEL

A		SYSTEM		240/120V		1Ø		3W	
		RATING		175A		M.L.O.		22,000 AIC MINIMUM	
		ENCLOSURE		NEMA 1		SURFACE MOUNT			
		OPTIONS BOLT ON BREAKERS							
CKT #	SERVING	CKT BKR		CONNECTED LOAD		CKT BKR		SERVING	CKT #
		TRIP	POLE	(VA)		POLE	TRIP		
1	REC / EXT REC - WAREHOUSE 102	20	1	1620	1620	1	20	REC - WAREHOUSE 102	2
3	REC - SUPERVISOR 103	20	1	1620	1080	1	20	EXT REC	4
5	REC - ASSISTANT 104	20	1	1620	1080	1	20	REC / EXT REC - WORKROOM 105	6
7	REC DRINK FTN - WORKROOM 105	20	*1	1200	0	1	20	SPARE	8
9	REC - WORKROOM 105 / MECH/ELEC 109	20	1	900	720	1	20	REC - WORKROOM 105	10
11	REC - TLT 106/107	20	1	360	1080	1	20	REC - BREAK RM 108	12
13	ACCESS CONTROL SYSTEM PANEL - MECH/ELEC 109	20	1	500	1200	1	20	REFRIG - BREAK RM 108	14
15	REC TELECOM BACKBOARD - MECH/ELEC 109	20	1	720	360	1	20	CNTR REC - BREAK RM 108	16
17	REC - GROUNDS SUPERVISOR 111	20	1	1620	1620	1	20	REC - STAFF 110	18
19	LTS - WAREHOUSE 102	20	1	1413	360	1	20	EXT REC - MAINT PORCH 112	20
21	LTS - WAREHOUSE 102	20	1	1413	296	1	20	LTS - SUPERVISOR/ASST/GNDRS SUPER/STAFF	22
23	LTS - TLT/BREAK RM/MECH/ELEC	20	1	259	666	1	20	LTS - WORKROOM 105	24
25	LTS - PARKING AREA	20	1	702	336	1	20	LTS - BLDG EXTERIOR SECURITY	26
27	LTS - MAINT PORCH 112	20	1	628	0	1	20	SPARE	28
29	SPARE	20	1	0	0	1	20	SPARE	30
31	SPARE	20	1	0	0	1	20	SPARE	32
33	SPACE ONLY	-	1	-	-	1	-	SPACE ONLY	34
35	SPACE ONLY	-	1	-	-	1	-	SPACE ONLY	36
37	SPACE ONLY	-	1	-	-	1	-	SPACE ONLY	38
39	SPACE ONLY	-	1	-	0	2	30	SURGE PROTECTIVE DEVICE	40
41	SPACE ONLY	-	1	-	-	-	-	---	42
TOTAL CONNECTED LOAD =				24993 VA		/	240	=	104.1 A
NOTES: * PROVIDE G.F.C.I. BREAKER									

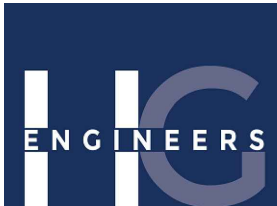
MECHANICAL EQUIPMENT COORDINATION SCHEDULE (VERIFY ALL EQUIPMENT CIRCUIT REQUIREMENTS WITH MANUFACTURERS SHOP DRAWINGS PRIOR TO ROUGH-IN)																								
EQUIPMENT DESIGNATION	DESCRIPTION	CFM	VOLT	Ø	ELECTRICAL LOAD								PROTECTION						CONDUCTOR / CONDUIT SIZE				DISC.	REMARKS
					QTY	LARGEST	SUM OF REMAINING	ELECTRIC HEAT KW	OTHER VA	TOTAL CONNECTED VA	MCA	MCP	TRIP	POLE	SETS	CONDUCTORS								
																QTY.	SIZE	GND	CONDUIT					
AHU-1	AIR HANDLER	1765	208	1	1	8			15		1664	73.6	80	80	2	1	3	#4	#8	1"	BREAKER			
AHU-2	AIR HANDLER	370	208	1	1	1					208	15	15	15	2	1	3	#12	#12	3/4"	MOTORSWITCH	POWERED FROM OUTDOOR UNIT (CU-2)		
AHU-3	AIR HANDLER	370	208	1	1	1					208	15	15	15	2	1	3	#12	#12	3/4"	MOTORSWITCH	POWERED FROM OUTDOOR UNIT (CU-3)		
CU-2	CONDENSING UNIT	N/A	208	1	1	7.5					1560	9	15	15	2	1	3	#12	#12	3/4"	30/23R	POWERS INDOOR UNIT (AHU-2)		
CU-3	CONDENSING UNIT	N/A	208	1	1	7.5					1560	9	15	15	2	1	3	#12	#12	3/4"	30/23R	POWERS INDOOR UNIT (AHU-3)		
HP-1	HEAT PUMP	N/A	208	1	1	29					6032	36.4	60	60	2	1	3	#6	#10	3/4"	60/23R			
EF-1	EXHAUST FAN	50	120	1	1	3					360	3.8	20	20	1	1	2	#12	#12	3/4"	MOTORSWITCH	INTERLOCKED WITH LOCAL LIGHTING CIRCUIT		
EF-4	EXHAUST FAN	8600	208	1	1	8					1654	10	20	20	2	1	3	#12	#12	3/4"	MOTORSWITCH			
EF-5	EXHAUST FAN	13600	120	1	1	20					2400	25	40	40	1	1	2	#8	#10	3/4"	MOTORSWITCH			
IRH-1	INFRARED HEATER (GAS)	N/A	120	1						576	576	5	20	20	1	1	2	#12	#12	3/4"	MOTORSWITCH			
IRH-2	INFRARED HEATER (GAS)	N/A	120	1						576	576	5	20	20	1	1	2	#12	#12	3/4"	MOTORSWITCH			
EWH-1	ELECTRIC WATER HEATER	N/A	208	1					4.5		4500	22	30	30	2	1	2	#10	#10	3/4"	BREAKER			
EWH-2	ELECTRIC WATER HEATER	N/A	208	1					4.5		4500	22	30	30	2	1	2	#10	#10	3/4"	BREAKER			

NOTES:

- INSTALL SURGE PROTECTIVE DEVICE IN BREAKER POSITION NEAREST TO NEUTRAL BAR WITH 3#6, 1#10 GND IN 3/4"; LEAD LENGTH CANNOT EXCEED UL 1449 4TH EDITION TEST OF 14" - REFER TO SPECS. PROVIDE INTERNAL 60A FUSING.
- INSTALL SURGE PROTECTIVE DEVICE IN BREAKER POSITION NEAREST TO NEUTRAL BAR WITH 3#10, 1#10 GND IN 3/4"; LEAD LENGTH CANNOT EXCEED UL 1449 4TH EDITION TEST OF 14" - REFER TO SPECS. PROVIDE INTERNAL 30A FUSING.
- INSTALL 2-2" EMPTY CONDUITS WITH PULLRIBBONS 36" PAST FOOTER AND BACK TO PANEL AS INDICATED; FOR FUTURE USE. STUB-OUT, TERMINATE IN PULLBOX AND MARK LOCATION. REFER TO FLOOR PLAN FOR LOCATION.
- INSTALL 3-1" EMPTY CONDUITS WITH PULLRIBBONS 36" PAST FOOTER AND BACK TO PANEL AS INDICATED; FOR FUTURE USE. STUB-OUT, TERMINATE IN PULLBOX AND MARK LOCATION. REFER TO FLOOR PLAN FOR LOCATION.
- 4 RUNS OF 2" C WITH PULL RIBBON. STUB-OUT, CAP AND MARK LOCATION. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE SERVING ELECTRIC UTILITY FOR ALL SERVICE REQUIREMENTS, CONNECTION WORK, AND APPLICABLE UTILITY IMPACT / CONNECTION FEES. COORDINATION SHALL INCLUDE CONFIRMING WITH THE OWNER WHETHER THE OWNER OR CONTRACTOR WILL BE RESPONSIBLE FOR PAYMENT OF SUCH FEES.



*** SPECIAL NOTE ***
PROVIDE 'LSI' TRIP UNITS FOR BREAKERS GREATER THAN OR EQUAL TO 200A.

SINGLE LINE POWER RISER
NOT TO SCALE

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FL Authorization No.00006680

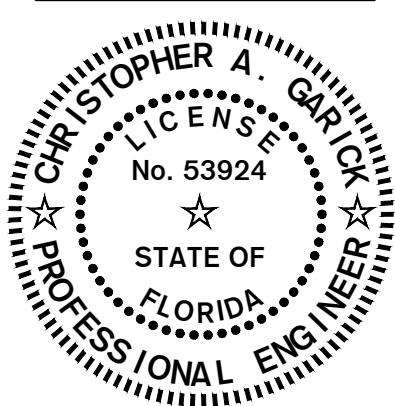
26004

Job No.

15 SEPT 2026

SINGLE LINE POWER
RISER AND DETAILS

E5.00



DATE: SEPT 15, 2026

DRAWN BY: RENGLE / C.PASTORIUS

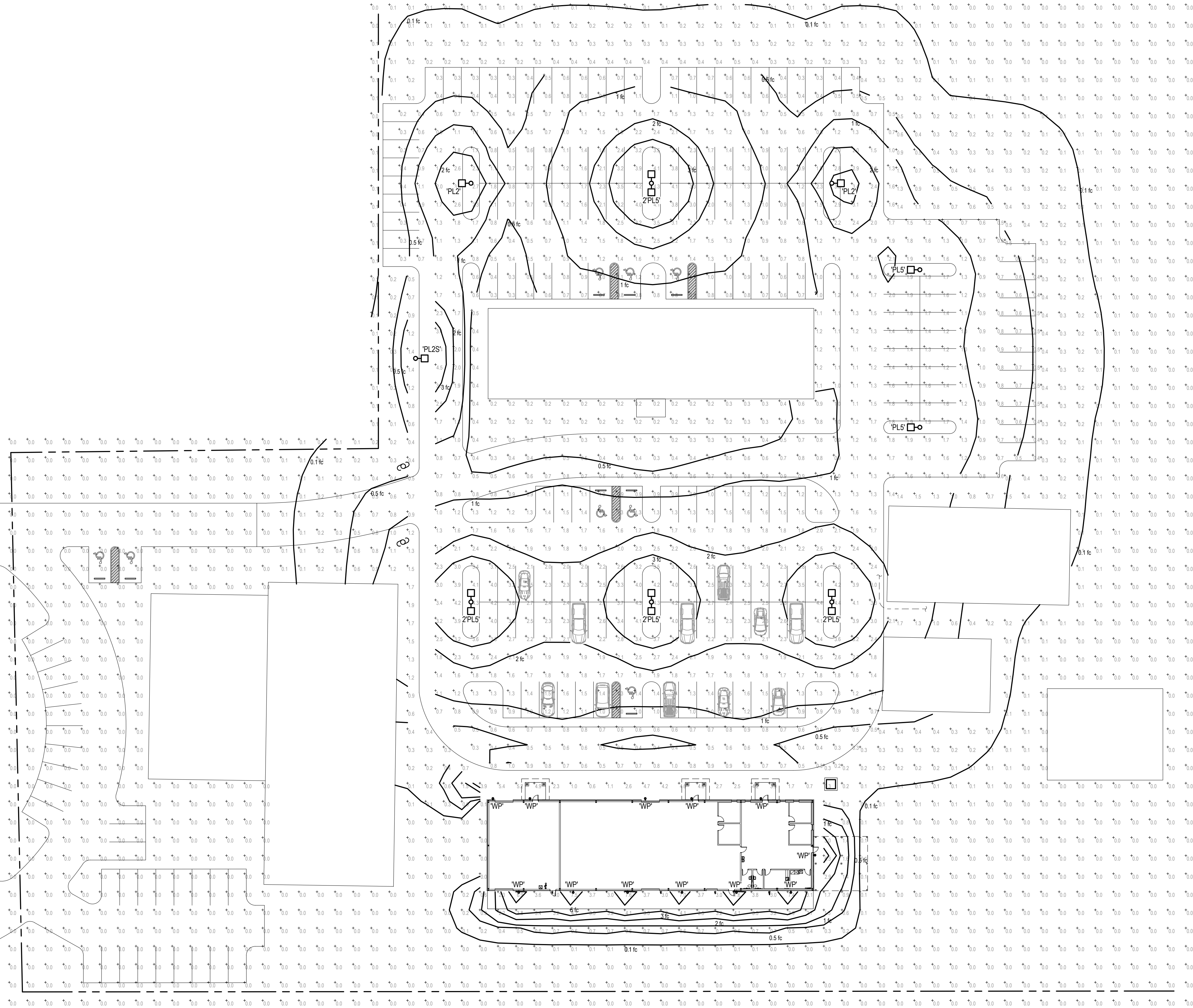
PROJECT NO: 2601

REVISIONS:

FOR BID

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Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Parking	Illuminance	Fc	1.41	4.5	0.2	7.05	22.50
Spill	Illuminance	Fc	0.24	7.6	0.0	N.A.	N.A.