## SYMBOLS & ABBREVIATIONS SCHEDULE RECEPTACLES

DUPLEX RECEPTACLE OUTLET, 18" A.F.F., TAMPER RESISTANT, 20AMP COMMERCIAL GRADE GROUNDING TYPE WITH MATCHING COVERPLATE. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO. GFCI RECEPTACLE OUTLET, 18" A.F.F., TAMPER RESISTANT, 20AMP COMMERCIAL GRADE GROUNDING TYPE WITH MATCHING COVERPLATE. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.

DUPLEX RECEPTACLE OUTLET, 18" AFF., TAMPER RESISTANT, 20AMP COMMERCIAL GRADE GROUNDING TYPE WITH MATCHING COVERPLATE. TAG INDICATES PANELBOARD & DEDICATED BRANCH CIRCUIT THAT IT IS CONNECTED TO. RECEPTACLE SHALL BE SUPPLIED BY A GFCI CIRCUIT BREAKER. PROVIDE LABEL ON COVER "PROTECTED BY GFCI" INDICATES (2) TAMPER RESISTANT, 20 AMP, COMMERCIAL GRADE RECEPTACLES IN 2-GANG BOX UNDER A COMMON MATCHING COVERPLATE. RECEPTACLES SHALL BE GROUNDING TYPE. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.

(2) GFCI RECEPTACLE OUTLETS, 18" A.F.F., TAMPER RESISTANT, 20AMP COMMERCIAL GRADE GROUNDING TYPE IN 2-GANG BACKBOX WITH MATCHING COMMON COVERPLATE. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT RANGE OR DRYER OUTLET VERIFY RECEPTACLE NEMA CONFIGURATION, RATING & INSTALLATION HEIGHT WITH SELECTED

EQUIPMENT SUPPLIER. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO. COVER PLATES SHALL BE STAINLESS STEEL. SPECIAL PURPOSE RECEPTACLE AS CALLED FOR ON DRAWINGS OR AS REQUIRED BY EQUIPMENT MANUFACTURER.

VERIFY NEMA CONFIGURATION. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO. FLOOR MOUNTED RECEPTACLE AS CALLED FOR ON DRAWINGS OR AS REQUIRED BY EQUIPMENT MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE RECESSED IN CONCRETE WITH A METAL COVER. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.

PROVIDE COMPLETE ELECTRICAL POWER CONNECTION TO MODULAR FURNITURE. WHIP TO BE PROVIDED WITH WALL -- J FURNITURE. CONNECTION SHALL INCLUDE MINIMUM WALL OR FLOOR JUNCTION BOX, WIRING TO CIRCUIT INDICATED, FLOOR—(J)~ FINAL CONNECTION TO APPROPRIATE FURNITURE GROUP.

TYPE #1 FLOOR BOX WITH (2) DUPLEX RECEPTACLES. UNLESS OTHERWISE NOTED, PROVIDE RECESSED IN CONCRETE WITH A METAL COVER. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.

TYPE #3 FLOOR BOX WITH (2) DUPLEX RECEPTACLE & (2) DATA. UNLESS OTHERWISE NOTED, PROVIDE RECESSED IN LP2.12 CONCRETE WITH A METAL COVER. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.

TYPICAL WALL ---

WALL MOUNTED JUNCTION BOX, SIZE AS INDICATED OR PROVIDE MINIMUM SIZE REQUIRED BY LATEST EDITION OF NATIONAL ELECTRICAL CODE (NFPA 70-NEC).

CEILING MOUNTED JUNCTION BOX, SIZE AS INDICATED OR PROVIDE MINIMUM SIZE REQUIRED BY LATEST EDITION OF NATIONAL ELECTRICAL CODE (NFPA 70-NEC).

PROVIDE COMPLETE ELECTRICAL CONNECTION TO EQUIPMENT INDICATED (INCLUDING DISCONNECT, CONDUCTORS, RACEWAY, & OTHER REQUIRED HARDWARE. XX-X INDICATES EQUIPMENT TAG. REFER TO MECHANICAL EQUIPMENT

PROVIDE COMPLETE ELECTRICAL CONNECTION TO MOTOR INDICATED (INCLUDING DISCONNECT, STARTER, CONDUCTORS, RACEWAY, & OTHER REQUIRED HARDWARE. XX-X INDICATES EQUIPMENT TAG. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.

EMERGENCY POWER OFF BUTTON (EPO). PROVIDE WHERE INDICATED ON DRAWINGS. PROVIDE ALL REQUIRED INTERFACES AS CALLED FOR ON DRAWINGS OR REQUIRED BY EQUIPMENT MANUFACTURER.

ELECTRICAL PANELBOARD, SURFACE MOUNTED. UNLESS OTHERWISE NOTED, INSTALL AT 72" A.F.F. TO THE TOP OF THE

ELECTRICAL PANELBOARD, FLUSH MOUNTED. UNLESS OTHERWISE NOTED, INSTALL AT 72" A.F.F. TO THE TOP OF THE BOX.

TYPICAL DISCONNECT (SAFETY SWITCH).  $\,$  REFER TO DRAWINGS FOR SIZE & ADDITIONAL FUSING REQUIREMENTS.

TYPICAL DRY-TYPE TRANSFORMER (SIZE MIGHT VARY). UNLESS OTHERWISE NOTED, PROVIDE FLOOR MOUNTED WITH CONCRETE EQUIPMENT PAD.

ELECTRICAL PIECE OF EQUIPMENT. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION.

LIGHTING (REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION, LUMINAIRE SYMBOLS ARE SHOWN TO INDICATE GENERAL SHAPE & SIZE, ACTUAL SYMBOLS MY VARY) LUMINAIRE (RECESSED). REFER TO LUMINAIRE SCHEDULE FOR ADDTIONAL INFORMATION. UPPERCASE LETTER

> INDICATES TYPE IN LUMINAIRE SCHEDULE, LOWERCASE LETTER INDICATES TYPE OF SWITCHED LEG, NUMBER INDICATES CIRCUIT IN PANELBOARD. LUMINAIRE (SURFACE OR PENDANT MOUNTED). REFER TO LUMINAIRE SCHEDULE FOR ADDTIONAL INFORMATION. UPPERCASE LETTER INDICATES TYPE IN LUMINAIRE SCHEDULE, LOWERCASE LETTER INDICATES TYPE OF SWITCHED LEG,

NUMBER INDICATES CIRCUIT IN PANELBOARD. RECESSED DOWNLIGHT. REFER TO LUMINAIRE SCHEDULE FOR ADDTIONAL INFORMATION. UPPERCASE LETTER INDICATES TYPE IN LUMINAIRE SCHEDULE, LOWERCASE LETTER INDICATES TYPE OF SWITCHED LEG, NUMBER INDICATES CIRCUIT IN PANELBOARD

RECESSED WALLWASHER. REFER TO LUMINAIRE SCHEDULE FOR ADDTIONAL INFORMATION. UPPERCASE LETTER INDICATES TYPE IN LUMINAIRE SCHEDULE, LOWERCASE LETTER INDICATES TYPE OF SWITCHED LEG, NUMBER INDICATES CIRCUIT IN PANELBOARD EMERGENCY LUMINAIRE, PROVIDE LUMINAIRE TYPE AS INDICATED. REFER TO PLANS & SPECIFICATIONS FOR ADDITIONAL

INFORMATION. UNLESS OTHERWISE NOTED, LUMINAIRE SHALL BE WIRED FOR A SWITCHED CIRCUIT. REFER TO DETAIL No.1 WALL LIGHT SWITCH, ROMAN NUMERAL INDICATES NUMBER OF SWITCHES GANGED UNDER ONE COVERPLATE. LOWER CASE LETTERS INDICATE SWITCHING. PROVIDE WITH MATCHING COVERPLATES

"K" - KEYED SWITCH. "3" - 3-WAY

"4" - 4-WAY "WP" - WATERPROOF (IP66 MINIMUM)

WALL MOUNTED DIMMER CONTROLLER (LED OR FLUORESCENT). ROMAN NUMERAL INDICATES NUMBER OF SWITCHES GANGED UNDER COMMON COVERPLATE. LOWER CASE LETTERS INDICATE SWITCHING. UNLESS OTHERWISE NOTED, PROVIDE 0-10VDC. COORDINATE & PROVIDE ANY ADDITIONAL WIRING REQUIREMENTS.

LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR (AUTO ON, AUTO OFF) WITH DUAL TECHNOLOGY SENSING & 360° VIEW CAPABILITY. PROVIDE COMPLETE WITH ALL REQUIRED RELAYS & WIRING AS REQUIRED BY SELECTED EQUIPMENT

WALL MOUNTED OCCUPANCY SENSOR (AUTO ON, AUTO OFF) TYPE SWITCH.

LOW VOLTAGE CORNER MOUNTED OCCUPANCY SENSOR WITH DUAL TECHNOLOGY SENSING. PROVIDE COMPLETE WITH ALL REQUIRED RELAYS & WIRING AS REQUIRED BY SELECTED EQUIPMENT MANUFACTURER.

LOW VOLTAGE CEILING MOUNTED VACANCY SENSOR (MANUAL ON, AUTO OFF) WITH DUAL TECHNOLOGY SENSING & 360° VIEW CAPABILITY. PROVIDE COMPLETE WITH ALL REQUIRED RELAYS & WIRING AS REQUIRED BY SELECTED EQUIPMENT MANUFACTURER. REPLACE EXISTING WALL SWITCHES WITH LOW VOLTAGE (MOMENTARY CONTACT TYPE) & MODIFY EXISTING WIRING AS REQUIRED.

WALL MOUNTED VACANCY SENSOR (MANUAL ON, AUTO OFF) TYPE SWITCH.

LOW VOLTAGE CORNER MOUNTED VACANCY SENSOR (MANUAL ON, AUTO OFF) WITH DUAL TECHNOLOGY SENSING PROVIDE COMPLETE WITH ALL REQUIRED RELAYS, LOW VOLTAGE SWITCHING & WIRING AS REQUIRED BY SELECTED EQUIPMENT MANUFACTURER. REPLACE EXISTING WALL SWITCHES WITH LOW VOLTAGE (MOMENTARY CONTACT TYPE) & MODIFY EXISTING WIRING AS REQUIRED.

DAYLIGHT HARVESTING PHOTOCELL. PROVIDE COMPLETE WITH ALL REQUIRED MOUNTING HARDWARE & INTERCONNECTION TO CONTROLLER AS SPECIFIED. LOCATE IN ROOM PER MANUFACTURERS REQUIREMENTS.

LUMINAIRE MOUNTING HEIGHT TAG. INDICATES THE HEIGHT THAT THE BOTTOM OF LUMINAIRE SHALL BE INSTALLED IN

THE ASSOCIATED ROOM. TYPICAL SITE LUMINAIRE (EXACT SYMBOL MAY VARY). SHALL INCLUDE LUMINAIRE HEAD, POLE, & CONCRETE BASE.

REFER TO LUMINAIRE SCHEDULE & SITE LIGHTING PLAN FOR ADDITIONAL INFORMATION. EMERGENCY LUMINAIRE UNIT, SHALL BE WITH BATTERY BACKUP. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL

INFORMATION. BATTERY CAPACITY SHALL MEET OR EXCEED MINIMUM OPERATION TIME REQUIRED BY CODES. EXIT SIGN (LED TYPE). SHALL PROVIDED WITH INTEGRAL BATTERY BACKUP. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION. VERIFY SHEVRON DIRECTION IN FIELD, PROVIDE AS REQUIRED. BATTERY CAPACITY SHALL

TYPICAL LUMINAIRE NOTATION ✓—SWITCH LEG

> 2,á,13 - BRANCH CIRCUIT EM/NL EMERGENCY AND/OR NIGHTLIGHT

FIRE ALARM

FIRE ALARM SYSTEM SMOKE SENSOR. (CEILING MOUNTED) PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. (ROUND-CEILING MOUNTED, SQUARE-WALL MOUNTED). TAG 'EL' INDICATES SMOKE DETECTORS SHALL BE PROGRAMMED FOR ELEVATOR RECALL.

RATE-OF-RISE (15° PER MINUTE) TYPE DEVICE. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

FIRE ALARM SYSTEM HEAT DETECTOR. UNLESS OTHERWISE NOTED, PROVIDE COMBINATION FIXED (135°F) &

FIRE ALARM SYSTEM HEAT DETECTOR. PROVIDE WITH FIXED TEMPERATURE SENSING ELEMENT (190°F OR AS OTHERWISE NOTED). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

CARBON MONOXIDE DETECTOR. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. >WALL MOUNTED FLAME DETECTOR, CEILING MOUNTED. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. TAG FLAME DETECTOR, CEILING WICKLING WICKLI

FIRE ALARM SYSTEM DUCT DETECTOR. PROVIDE COMPLETE INSTALLATION INCLUDING SAMPLING TUBES EXTENDING THE FULL WIDTH OF DUCT. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

FIRE ALARM SYSTEM REMOTE TEST STATION. PROVIDE WHERE INDICATED ON DRAWING & INTERFACE WITH DETECTION DEVICE INDICATED. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

FIRE ALARM SYSTEM MANUAL PULL STATION. PROVIDE COMPLETE INSTALLATION WITH PROTECTIVE COVER WHERE REQUIRED. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

RECEIVER-

FIRE ALARM SYSTEM BEAM DETECTOR TRANSMITTER & RECEIVER SYSTEM. PROVIDE COMPLETE INSTALLATION INCLUDING REMOTE TEST STATION. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. ∠<sub>TRANSMITTER</sub>

FIRE ALARM SYSTEM WATER FLOW SWITCH. PROVIDE COMPLETE INTERFACE BETWEEN FLOW SWITCH & FIRE ALARM CONTROL PANEL. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

FIRE ALARM SYSTEM TAMPER SWITCH. PROVIDE COMPLETE INTERFACE BETWEEN TAMPER SWITCH & FIRE ALARM

CONTROL PANEL. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. FIRE ALARM SYSTEM AUDIO/VISUAL NOTIFICATION APPLIANCE (WALL MOUNTED BETWEEN 80" TO 96", INSTALL NOT CLOSER THEN 6" TO THE FINISHED CEILING). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE 15cd VISUAL DEVICE.

FIRE ALARM SYSTEM VISUAL NOTIFICATION APPLIANCE (WALL MOUNTED BETWEEN 80" TO 96", INSTALL NOT CLOSER THEN 6" TO THE FINISHED CEILING). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE 15cd VISUAL DEVICE.

FIRE ALARM SYSTEM AUDIO NOTIFICATION APPLIANCE (WALL MOUNTED BETWEEN 80" TO 96", INSTALL NOT CLOSER THEN 6" TO THE FINISHED CEILING). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

FIRE ALARM SYSTEM AUDIO/VISUAL NOTIFICATION APPLIANCE (CEILING MOUNTED). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE 75cd VISUAL DEVICE.

FIRE ALARM SYSTEM VISUAL NOTIFICATION APPLIANCE (CEILING MOUNTED). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE 75cd VISUAL DEVICE.

FIRE ALARM SYSTEM AUDIO NOTIFICATION APPLIANCE (CEILING MOUNTED). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

FIRE ALARM SYSTEM WATER FLOW ALARM INTERFACE. PROVIDE COMPLETE ELECTRICAL INTERFACE TO ALARM (PROVIDED & INSTALLED BY SPRINKLER CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR). PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

FIRE ALARM SYSTEM ZONE ADDRESSABLE MODULE. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. FIRE ALARM SYSTEM INDIVIDUAL ADDRESSABLE MODULE. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. PROVIDE

ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. FIRE ALARM SYSTEM FAN SHUT-DOWN RELAY. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. CONTACT RATING

SHALL MATCH FAN MOTOR FEEDER RATING. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

FIRE ALARM SYSTEM ISOLATION MODULE. PROVIDE WHERE REQUIRED PER SPECS/DETAILS. INSTALL EVERY 25TH INITIATING DEVICE ON SLC LOOP. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

FIRE ALARM SYSTEM CONTROLLABLE ZONE ADDRESSABLE MODULE. PROVIDE WHERE REQUIRED PER SPECS/DETAILS.

FIRE ALARM SYSTEM ELECTROMAGNETIC DOOR HOLDER. VERIFY REQUIRED VOLTAGE PRIOR TO ORDERING. PROVIDE COMPLETE INTERFACE TO FACP AS REQUIRED. PROVIDE ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. TYPICAL FIRE ALARM CONTROL PANEL. SURFACE OR FLUSH MOUNTED. PROVIDE WHERE INDICATED ON FLOOR PLANS. INSTALL APPROXIMATELY 72" A.F.F. TO TOP OF BOX. PROVIDE DEDICATED 120VAC, 20A/1P CIRCUIT ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

FIRE ALARM NOTIFICATION APPLIANCE CONTROL PANEL (POWER SUPPLY). PROVIDE WHERE INDICATED ON FLOOR PLANS. INSTALL APPROXIMATELY 72" A.F.F. TO TOP OF BOX. PROVIDE DEDICATED 120VAC, 20A/1P CIRCUIT ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER. FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL. PROVIDE WHERE INDICATED ON FLOOR PLANS. INSTALL 

APPROXIMATELY 72" A.F.F. TO TOP OF BOX. PROVIDE INTERFACE TO FACP ALL WIRING AS REQUIRED BY SELECTED MANUFACTURER.

DATA (SYSTEMS)

DATA DROP LOCATION. UNLESS OTHERWISE NOTED, PROVIDE MINIMUM OF (2) CAT 6 CABLES & TERMINATIONS, INSTALL 18" AFF, EXTENSION RING & ASSOCIATED JACKS. PROVIDE 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE WITH COVERPLATE. ALL DATA CABLES SHALL BE PROPERLY TERMINATED AT BOTH ENDS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

TELEVISION CONNECTION DROP, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. PROVIDE COAX CABLE WITH DUPLEX RECEPTACLE UNDER THE SAME COVERPLATE. VERIFY EXACT HEIGHT OF OUTLET & RECEPTACLE PRIOR TO ROUGH-IN.

A/V CONNECTION FOR WALL MOUNTED FLAT PANEL DISPLAY. PROVIDE CABLE TV WIRING, DATA PORT CABLE, HDMI CABLE TO THE FLOOR BOX. BOX SHALL INCLUDE A DUPLEX RECEPTACLE. EQUIPMENT SHALL BE LEGRAND HT2102-WH-V1 OR

PROVIDE DATA CABLING TO MODULAR OFFICE FURNITURE. SHALL INCLUDE WALL JUNCTION BOX OR FLOOR BOX, CONDUIT TO ACCESSIBLE SPACE. 'DATA-X' INDICATES NUMBER OF CABLES AT THIS LOCATION, UNLESS OTHERWISE NOTED, ROUTE DATA CABLES THROUGH THE FURNITURE & TERMINATE AT BOTH ENDS. COORDINATE DATA WIRING WITH

WIRELESS ACCESS POINT, CEILING MOUNTED. PROVIDE DATA CONNECTION & ALL REQUIRED WIRING FOR COMPLETE INSTALLATION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

MEDIA DROP, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. PROVIDE TWO GANG BOX AT STANDARD OUTLET HEIGHT WITH 3/4" RACEWAY STUBBED ABOVE CEILING SPACE. HDMI INPUT, PROVIDE COVERPLATE.

ONE GANG BOX AT 76" AFF WITH 3/4" RACEWAY STUBBED ABOVE CEILING SPACE, VERIFY FINAL LOCATION PRIOR TO

TWO GANG BOX MOUNTED AT 60" AFF FOR SYSTEM TOUCH PANEL CONTROL

INSTALLATION.

**PUBLIC ADDRESS & SOUND SYSTEM** 

SPEAKER, WALL MOUNTED. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE, PROVIDE PULL STRING, WIRING BY OTHERS.

SPEAKER, CEILING MOUNTED. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING BY OTHERS.

WALL STATION CONTROLLER. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING BY OTHERS.

PROGRAM HORN. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4" RACEWAY TO NEAREST

ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING BY OTHERS.

PROGRAM BELL. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING BY OTHERS.

WALL MOUNTED CLOCK. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING BY OTHERS.

VOLUME CONTROL, WALL MOUNTED. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING BY OTHERS.

AMPBIENT SENSING MICROPHONE, COORDINATE EXACT LOCATION, SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING BY

MICROPHONE, CEILING MOUNTED. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING BY OTHERS.

MICROPHONE STATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE, PROVIDE PULL STRING, WIRING BY OTHERS.

TROUBLE STROBE, CEILING MOUNTED. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING BY OTHERS.

COLORED LED STROBE, CEILING MOUNTED. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX &

3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING BY OTHERS. RESET BUTTON, WALL MOUNTED. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4"

RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING BY OTHERS.

2 BUTTON ALERT SELECTOR, WALL MOUNTED. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX &

3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING BY OTHERS. STOVE RESET BUTTON, WALL MOUNTED. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4"

RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING BY OTHERS. G2 STROBE LIGHT, CEILING MOUNTED. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4"

RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING BY OTHERS.

G2 LED SPEAKER, FLUSH MOUNT, CEILING MOUNTED. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING BY OTHERS.

G2 OMNIALERT STROBE SPEAKER, CEILING MOUNTED. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING BY OTHERS.

SECURITY & ACCESS CONTROL (SYSTEMS)

CCTV CAMERA, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING BY

CARD READER, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING BY

DOOR RELEASE CONNECTION TO DOOR HARDWARE, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING BY OTHERS.

KEYPAD STATION, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING BY

WINDOW CONTACT, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING BY

DOOR CONTACT, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING BY MOTION SENSOR, SURFACE MOUNTED, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED

ELECTRICAL WORK INCLUDING BACKBOX & 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL DOOR BELL (BUZZER/RELEASE), VERIFY FINAL LOCATION PRIOR TO INSTALLATION, SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING BY OTHERS.

DURESS ALERT ACTUATOR, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING

INTERCOM STATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING BY OTHERS.

SECURITY CABLE TO BACK TO IT ROOM. PANIC BUTTON, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING BY

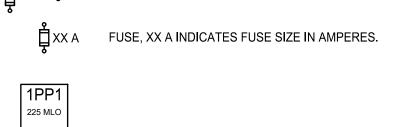
ELECTRIC STRIKE. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4" RACEWAY WITH 18/4

EMERGENCY BUTTON, VERIFY FINAL LOCATION PRIOR TO INSTALLATION. SHALL INCLUDE ALL REQUIRED ELECTRICAL WORK INCLUDING BACKBOX & 3/4" RACEWAY TO NEAREST ACCESSIBLE CEILING SPACE. PROVIDE PULL STRING. WIRING

POWER ONE-LINE POWER TRANSFORMER, DELTA PRIMARY, WYE SECONDARY OR AS INDICATED. PROVIDE ALL REQUIRED GROUNDING.

MOLDED CASE CIRCUIT BREAKER. AF INDICATES FRAME SIZE, AT INDICATES TRIP SETTING DRAWOUT TYPE CIRCUIT BREAKER. AF INDICATES FRAME SIZE, AT INDICATES TRIP SETTING

 $^2$  DISCONNECT SWITCH & FUSIBLE SWITCH. XXAS INDICATES SWITCH AMPERE SIZE XXAF INDICATES FUSE AMPERE SIZE



AVAILABLE FAULT CURRENT TAG (AMPS)

GROUND FAULT PROTECTION.

PANELBOARD

SURGE PROTECTION. POWER QUALITY METER.

DIGITAL VOLT METER.

GENERAL NOTES: (FOR ALL DRAWINGS)

A. THE DRAWINGS ARE DIAGRAMMATIC & INDICATE GENERALLY THE LOCATIONS OF THE MATERIAL & EQUIPMENT. THESE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE.

B. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER INSTALLATION & OPERATION, SHALL BE INCLUDED IN THE CONTRACTOR'S BID, THE SAME

AS IF HEREIN SPECIFIED OR SHOWN. C. ALL MATERIAL & INSTALLATION SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE

NATIONAL ELECTRIC CODE, LATEST EDITION OF LOCAL CODES, & ORDINANCES. D. ALL CONDUITS ON EXPOSED WORK SHALL BE RUN AT RIGHT ANGLES TO, & PARALLEL WITH, THE SURROUNDING WALL & SHALL CONFORM TO THE FORM OF THE CEILING. DIAGONAL RUNS WILL NOT BE ALLOWED. BENDS IN PARALLEL CONDUIT RUNS SHALL BE CONCENTRIC. ALL CONDUIT SHALL RUN PERFECTLY STRAIGHT & TRUE.

E. ALL CONDUIT RUNS ARE TO BE CONCEALED IN WALLS, CEILINGS, OR IN THE SLAB. CONTRACTOR SHALL COORDINATE CONDUIT INSTALLATION DURING BUILDING CONSTRUCTION WITH OTHER TRADES. RUN SURFACE RACEWAY ONLY WHERE CALLED FOR OR SHOWN ON THE DRAWINGS. EXPOSED CONDUIT SHALL ONLY BE INSTALLED WHERE MEANS OF CONCEALING DOES NOT EXIST. CONTRACTOR IS TO NOTIFY ENGINEER & GET OWNERS APPROVAL PRIOR TO RUNNING EXPOSED CONDUITS.

F. INTERIOR RECEPTACLE & LIGHT FIXTURE BRANCH CIRCUITS SHALL BE IN EMT CONDUIT. A MAXIMUM OF (3) CIRCUITS CAN BE GROUPED TOGETHER IN A HOMERUN CONDUIT. EACH CIRCUIT SHALL HAVE SEPARATE NEUTRAL, GROUPING OF NEUTRALS SHALL NOT BE ACCEPTABLE. EACH CIRCUIT SHALL ALSO HAVE A GROUND WIRE SIZED PER NEC. USING CONDUIT, OR MC CABLE AS GROUND PATH SHALL NOT BE ACCEPTABLE. CABLE MUST BE SUPPORTED PER NEC, GROUPING OF GROUND WIRES [(1) GROUND PER (3) CIRCUITS] IS ACCEPTABLE. MAXIMUM 6' LENGTH OF MC CABLE ALLOWED FOR A WHIP CONNECTION TO LUMINAIRE ONLY. EXTERIOR (OUTDOOR) RECEPTACLE & LIGHT FIXTURE BRANCH CIRCUITS SHALL BE IN RMC CONDUIT OR AS PERMITTED IN THE SPECIFICATIONS.

G. COORDINATE ALL LUMINAIRE & CEILING MOUNTED EQUIPMENT LOCATIONS & MOUNTING HARDWARE WITH ARCHITECTURAL CEILING PLANS PRIOR TO CONSTRUCTION.

H. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED COSTS FOR SEALING ALL PENETRATIONS THROUGH FIRE & SMOKE WALLS USING UL APPROVED SEALANT & METHODS.

I. ALL COMMUNICATIONS OUTLET LOCATIONS ARE DIAGRAMMATIC & MUST BE FIELD VERIFIED WITH OWNER'S FURNITURE LOCATIONS PRIOR TO CONSTRUCTION. NO EXTRA COMPENSATION WILL BE GIVEN FOR FAILURE TO VERIFY EXACT LOCATION PRIOR TO

J. ALL RECEWAYS CROSSING BUILDING EXPANSION JOINTS SHALL BE EQUIPPED WITH EXPANSION FITTINGS.

 K. CONTRACTOR SHALL PROVIDE INFORMATION LABELS ON ALL RECEPTACLES, PANELBOARDS, JUNCTION BOXES, WALL SWITCHES, & DISCONNECT SWITCHES. LABELS SHALL BE PHENALIC TYPE WITH BLACK BACKGROUND & WHITE ENGRAVED LETTERING. LABEL SHALL INDICATED CIRCUIT/FEEDER SOURCE & EQUIPMENT ID NAME

**ABBREVIATIONS:** 

INDICATES WEATHERPROOF DEVICE OR EQUIPMENT INDICATES DEVICE SHALL HAVE WIRE GUARD PROTECTION

ABOVE FINISHED FLOOR

ABOVE FINISHED GRADE EXISTING EQUIPMENT SHALL REMAIN IN PLACE OVER COUNTER (INSTALL 12" ABOVE COUNTER HEIGHT)

UNDER COUNTER (INSTALL 18" ABOVE FINISHED FLOOR) VISUAL NOTIFICATION APPLIANCE CIRCUIT

AUDIO NOTIFICATION APPLIANCE CIRCUIT SIGNALING LINE CIRCUIT AUTOMATIC TRANSFER SWITCH

HORSEPOWER KILOWATT

KILOVOLT-AMPERES VARIABLE FREQUENCY DRIVE **EMERGENCY** 

NIGHTLIGHT (TYPICAL FOR LIGHTING, 'ON' ALL THE TIME) LIGHTING CONTINUOUS LOAD (POWER)

ELECTRIC HEAT KITCHEN EQUIPMENT

LMTR LARGEST MOTOR SHOP EQUIPMENT NATIONAL ELECTRICAL CODE

MLO MAIN LUGS ONLY MCB MAIN CIRCUIT BREAKER AMERICAN WIRE GAGE

**BRANCH CIRCUIT WIRING NOTES:** 

**GENERAL SYMBOLS NOTE:** 

THIS SYMBOLS & ABBREVIATIONS SCHEDULE IS FOR THE ELECTRICAL CONTRACTOR

PROJECT. ANY ADDITIONS OR OMISSIONS FROM THIS SCHEDULE DOES NOT IMPLY

INCLUSION AND / OR EXCLUSION OF ANY PARTICULAR ITEM FROM THE PROJECT.

REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS MAY APPLY TO THIS PARTICULAR

A. UNLESS OTHERWISE NOTED, MINIMUM HOMERUN (HOMERUN SHALL BE CONSIDERED TOTAL LENGTH FROM SOURCE TO LAST DEVICE ON THE CIRCUIT) CONDUCTORS FOR

20A/1P BRANCH CIRCUITS INCLUDING LIGHTING SHALL BE AS FOLLOWS: 1-100FT - #12 AWG • 101-150FT - #10 AWG

 151-250FT - #8 AWG • 251-400FT - #6 AWG.

 401 & LONGER - #4 AWG. REDUCE CONDUCTORS SIZE TO A MAXIMUM CONDUCTOR SIZE THAT THE LOAD TERMINALS CAN ACCOMMODATE, REDUCED SIZE NOT LONGER THAN ONE FOOT. INCREASE RACEWAY SIZE AS NEEDED PER NEC, FOR THE LARGER SIZES OF

> **PROGRESS** NOT FOR CONSTRUCTION

**UNION GROVE, WI 53182** 

UNION GROVE YORKVILLE FIRE

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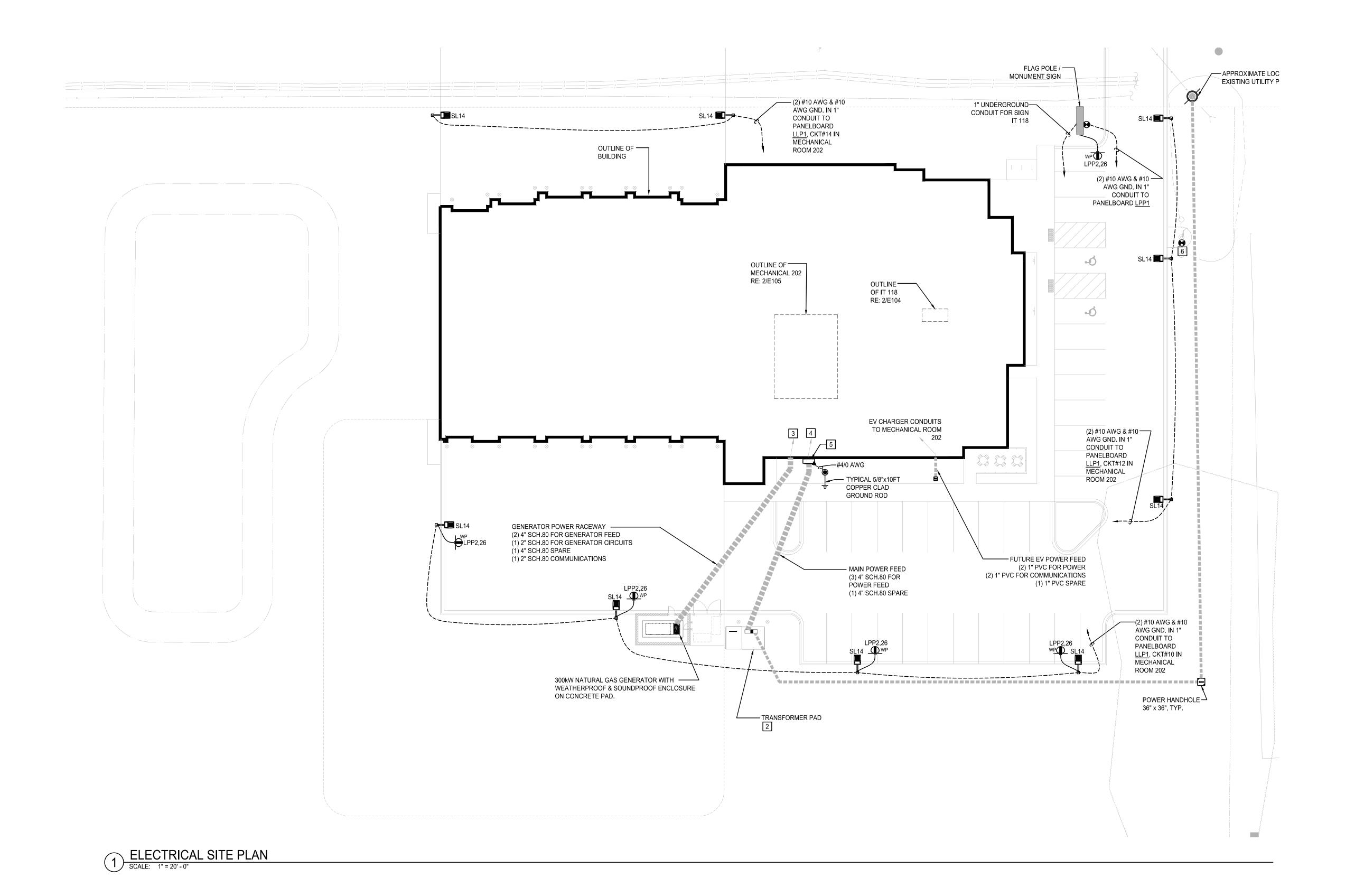
**ELECTRICAL SYMBOLS. NOTES** & ABBREVIATIONS

IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGL

SCALE AS NOTED CHK. JFW PROJ. No. 616501

DATE 03/17/2025

DWG. No.





- A. UNLESS OTHERWISE NOTED. ALL UNDERGROUND CONDUIT SHALL BE INSTALLED UNDERGROUND WITH MINIMUM 24" COVER.
- B. ALL SITE LUMINAIRES SHALL BE ROUTED VIA LIGHTING RELAY PANEL TO ALLOW FOR AUTOMATIC CONTROLS. REFER TO DRAWING  $\underline{\text{E401}}$  DETAIL No.7 FOR ADDITIONAL INFORMATION.
- C. UNLESS OTHERWISE NOTED, ALL UNDERGROUND CONDUITS UNDER ROADWAY SHALL BE CONCRETE ENVELOPE ON ALL SIDES A MINIMUM OF 3"

### **☒** CONSTRUCTION NOTES:

- 1. PROVIDE SECTION OF COMMUNICATIONS RACEWAY UNDER THE BUILDING FOOTPRINT WITH A MINIMUM OF 3" CONCRETE ENVELOPE ON ALL SIDES.
- 2. PROVIDE CONCRETE TRANSFORMER PAD TO ACCOMMODATE NEW UTILITY PAD MOUNTED TRANSFORMER. REFER TO DRAWING <u>Exxx</u> FOR ADDITIONAL INFORMATION.
- 3. EMERGENCY POWER FEEDER TO AUTOMATIC TRANSFER SWITCH LOCATED IN ROOM
- 4. SERVICE POWER FEEDER TO AUTOMATIC TRANSFER SWITCH LOCATED IN ROOM 201.
- SERVICE ENTRANCE RATED DISCONNECT SWITCH <u>DS-1</u>. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- 6. PROVIDE A 120V CONNECTION FOR FLAG POLE LUMINAIRE.



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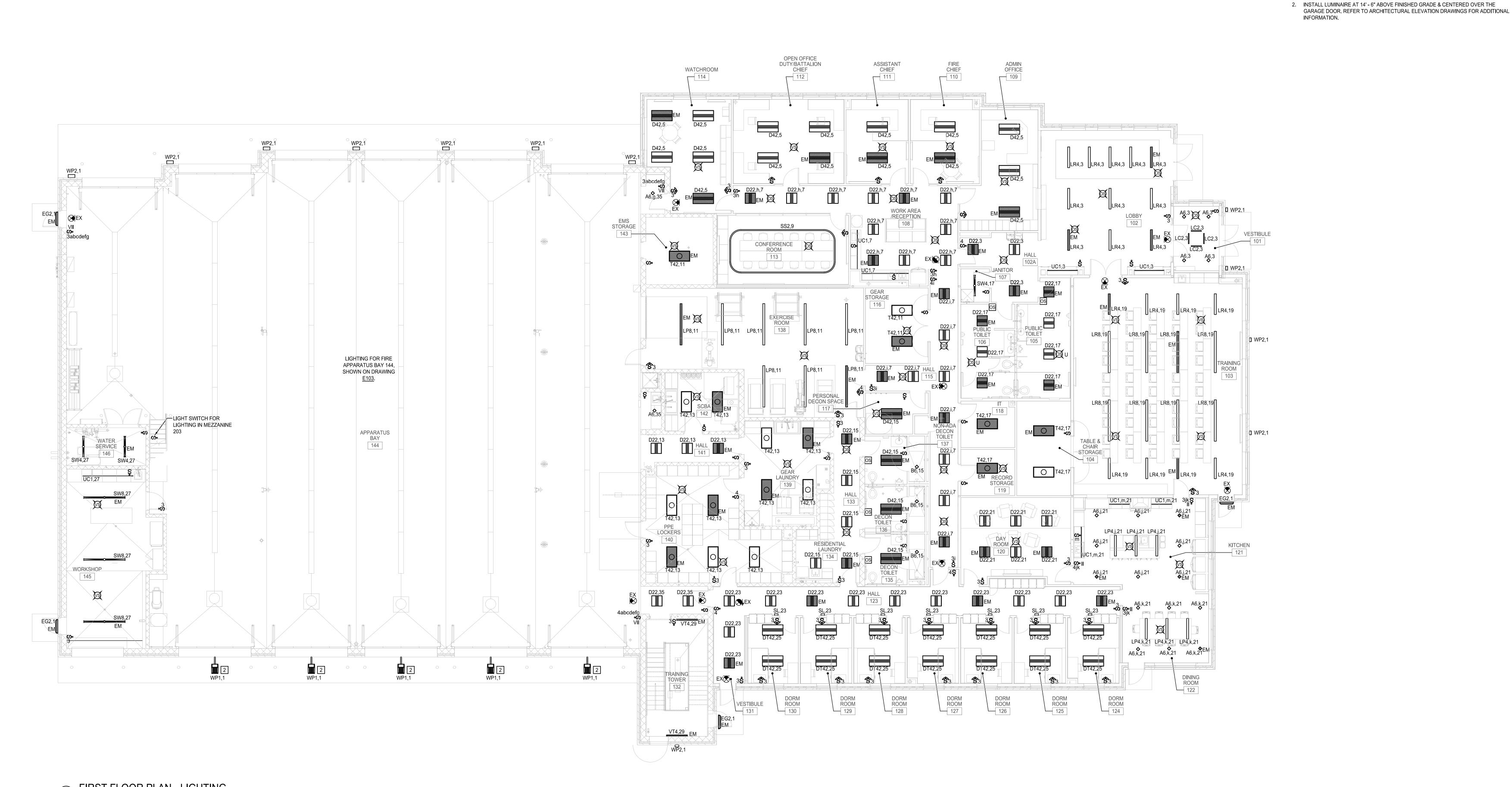
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ELECTRICAL SITE PLAN

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DATE 03/17/2025 SCALE AS NOTED

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1 FIRST FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1' - 0"



UNION GROVE, WI 53182

**GENERAL NOTES:** 

A. UNLESS OTHERWISE NOTED, ALL LIGHTING ON THIS DRAWING SHALL BE CONNECTED TO PANELBPARD <u>LLP1</u>.

1. INSTALL LUMINAIRE AT 12' - 0" ABOVE FINISHED GRADE & CENTERED IN COLUMN. REFER TO ARCHITECTURAL ELEVATION DRAWING FOR ADDITIONAL INFORMATION.

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CHK. JFW

SECOND FLOOR PLAN - LIGHTING

SCALE: 1/8" = 1' - 0"



**UNION GROVE, WI 53182** 

GENERAL NOTES:

- A. UNLESS OTHERWISE NOTED, ALL LIGHTING ON THIS DRAWING SHALL BE CONNECTED TO PANELBPARD <u>LLP1</u>.
- □ CONSTRUCTION NOTES:
- 1. CONSTRUCTION NOTES

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Five Bugles

Pive Bugles

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SECOND FLOOR PLAN - LIGHTING

0 1" 2

GENERIC SCALE BAR

SCALE DAD SHOWN IS TWO INCLUSE ON THE OPICINAL DRAWN

SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING.
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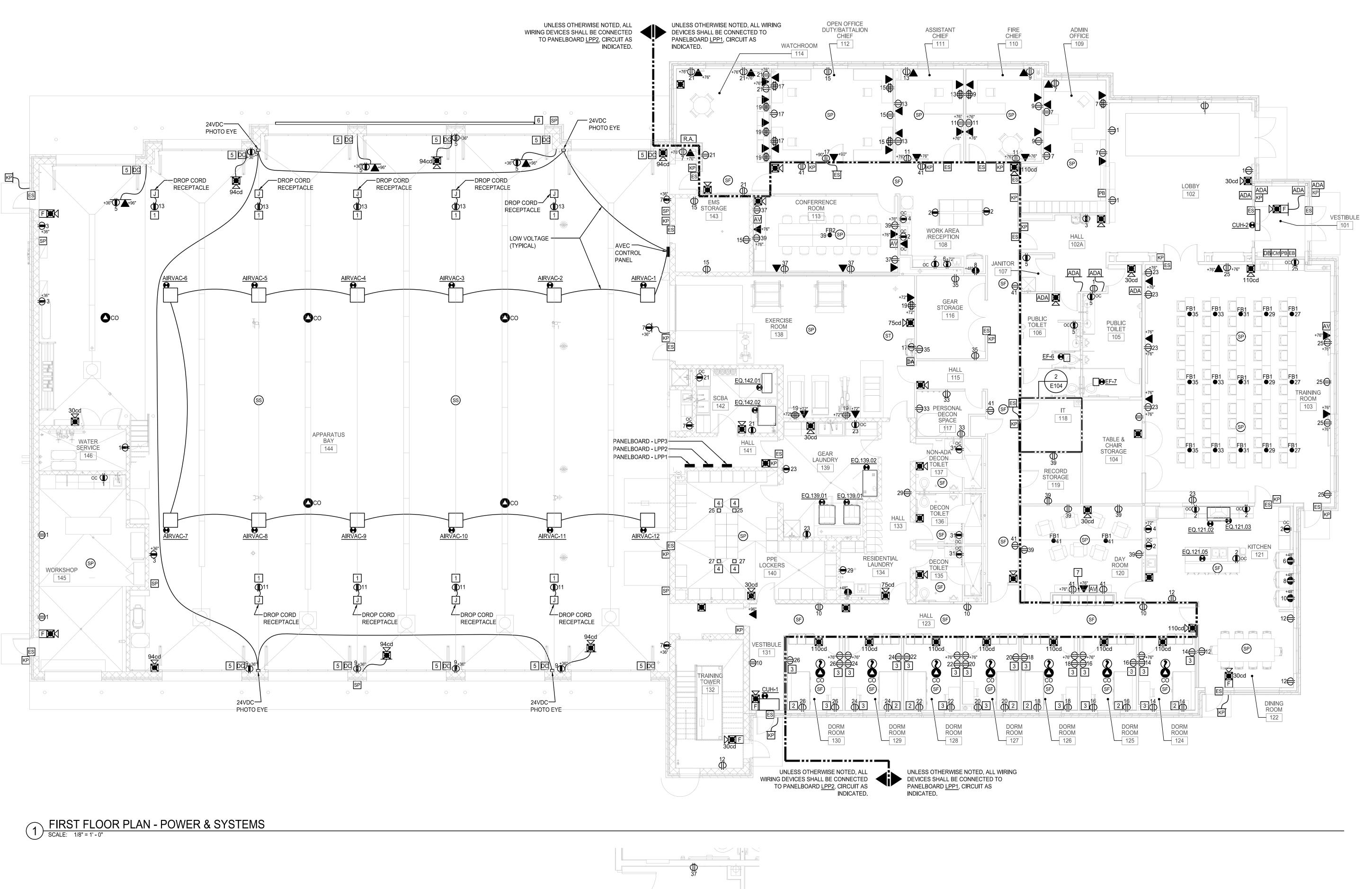
SCALE AS NOTED

DWN. MAP

PROJ. No. 616501

E103

CHK. JFW



PANELBOARD

2 IT 118 ENLARGED PLANS - POWER & SYSTEMS
SCALE: 1/4" = 1' - 0"



- C. REFER TO DRAWING <u>E502</u> FOR INFORMATION ON WIRING REQUIREMENTS FOR
- D. CONTRACTOR SHALL REVIEW & CONFIRM EXACT LOCATIONS OF ALL OUTLETS AND

- STRUCTURE AS REQUIRED.
- AT THIS LOCATION
- 3. PROVIDE 15A TAMPER RESISTANT/AFCI RECEPTACLE AT THIS LOCATION.
- 4. PROVIDE (1) ALUMINUM SERVICE POLE AT THIS LOCATION, MANUFACTURED BY HUBBELL CATALOG #HBLPP10GFBK OR EQUAL. CONTRACTOR TO PROVIDE ALL
- 5. PROVIDE (1) INDUSTRIAL TRACK MOUNTED DOOR CONTACT SWITCH FOR OVERHEAD DOORS AT THIS LOCATION, MANUFACTURED BY NASCOM CATALOG #N505ATM/ST.
- . OWNER PROVIDED BACK LIT LETTER SIGN. CONTRACTOR TO PROVIDE POWER FEED AND (4) ELECTRICAL CONNECTIONS FOR SIGN. ONE CONNECTION FOR EACH WORD. PROVIDE INTERCONNECTION BETWEEN LETTERS AS REQUIRED. FINAL LOCATION SHALL BE COORDINATED WITH OWNER. SIGN SHALL BE FEED FROM PANELBOARD <u>LPP1</u>, CKT#34. PROVIDE (2)#10 AWG AND #10 GND CONDUCTORS IN A 3/4" CONDUIT.
- 7. PROVIDE A 2" EMPTY CONDUIT STUBBED FROM THE TV TO THE CABINET. PROVIDE JUNCTION BOXES AND COVERPLATES WITH LOW VOLTAGE ACCESS IN WALL AT TV LOCATION AND CABINET LOCATION. JUNCTION BOXES SHALL BE SIZED APPROPRIATELY TO ACCEPT THE 2" EMPTY CONDUIT. COORDINATE EXACT LOCATION OF JUNCTION BOXES FOR ROUGH IN WITH ARCHITECT AND OWNER. REFER TO ARCHITECTURAL DETAIL 12/A602 FOR ADDITIONAL REQUIREMENTS.

A. REFER TO DRAWING E502 FOR INFORMATION ON WIRING REQUIREMENTS FOR MECHANICAL EQUIPMENT SHOWN ON THIS SHEET.

UNLESS OTHERWISE NOTED, ALL WIRING DEVICES SHALL BE CONNECTED TO PANELBOARD <u>LPPX</u>, CIRCUIT AS INDICATED.

EQUIPMENT SHOWN ON THIS SHEET.

DATA DROP WITH OWNER, PRIOR TO ROUGH-IN.

### 

- PROVIDE (1) DROP CORD GFCI RECEPTACLE AT THIS LOCATION. REFER TO DETAIL No.8 ON DRAWING E401 FOR ADITIONAL INFORMATION. WIRE TO PANELBOARD & BRANCH CIRCUIT AS INDICATED. FIELD VERIFY EXACT LOCATION. ATTACH TO
- 2. PROVIDE 15A TYPE A & TYPE C USB CHARGER/TAMPER RESISTANT/AFCI RECEPTACLE
- ACCESSORIES AND MOUNTING HARDWARE AS REQUIRED FOR A COMPLETE SYSTEM. PROVIDE IN BLACK FINISH. CIRCUIT AS INDICATED.
- WIRE LOW VOLTAGE SWITCHES IN PARALLEL TO THE AVEC CONTROL PANEL.
- REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATION.

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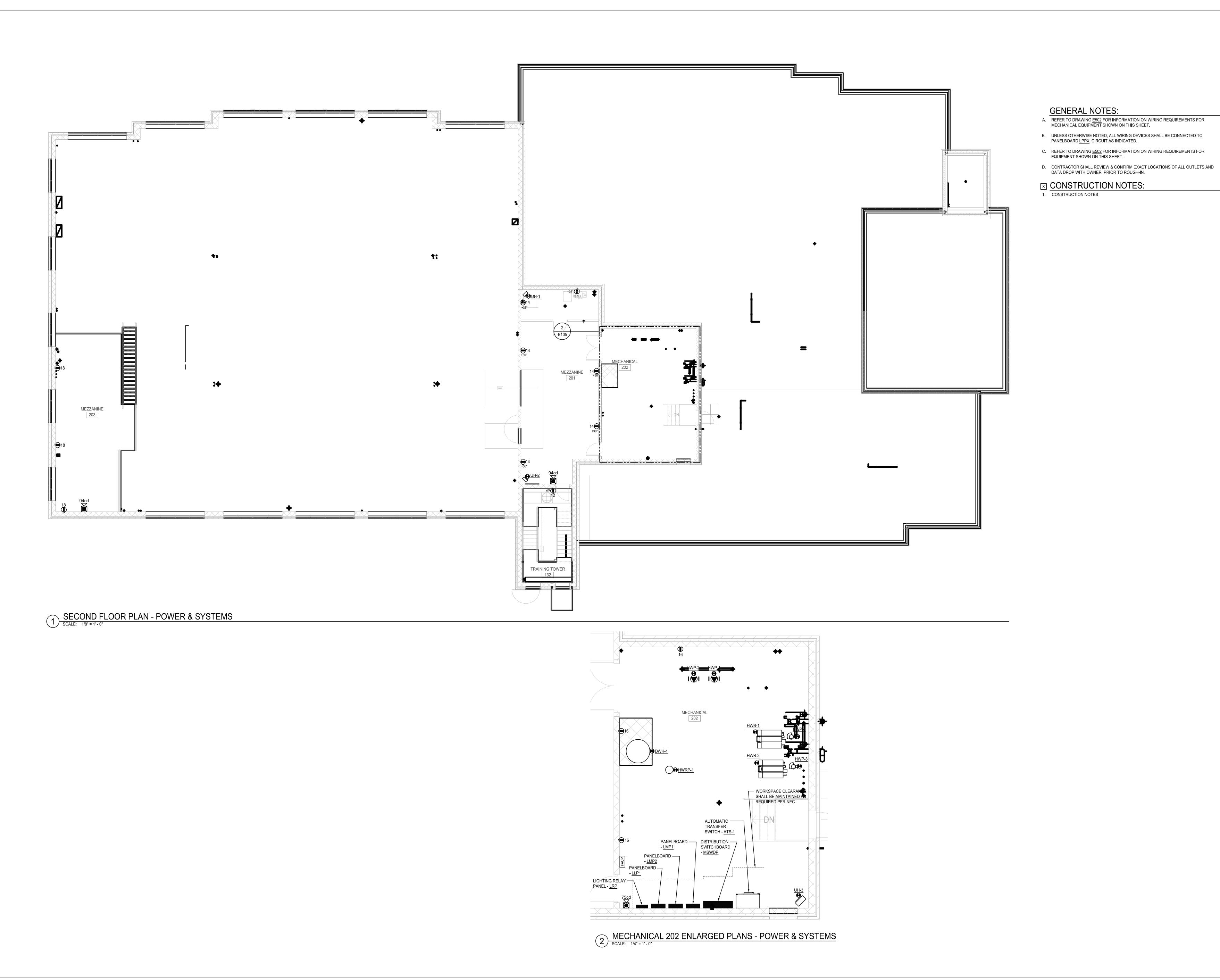
REVISIONS

FIRST FLOOR PLAN - POWER & SYSTEMS

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Five Bugles

Besign.

Mitchell Associates

Architects

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DWG. TITLE

SECOND FLOOR PLAN - POWER & SYSTEMS

0 1" 2"

GENERIC SCALE BAR

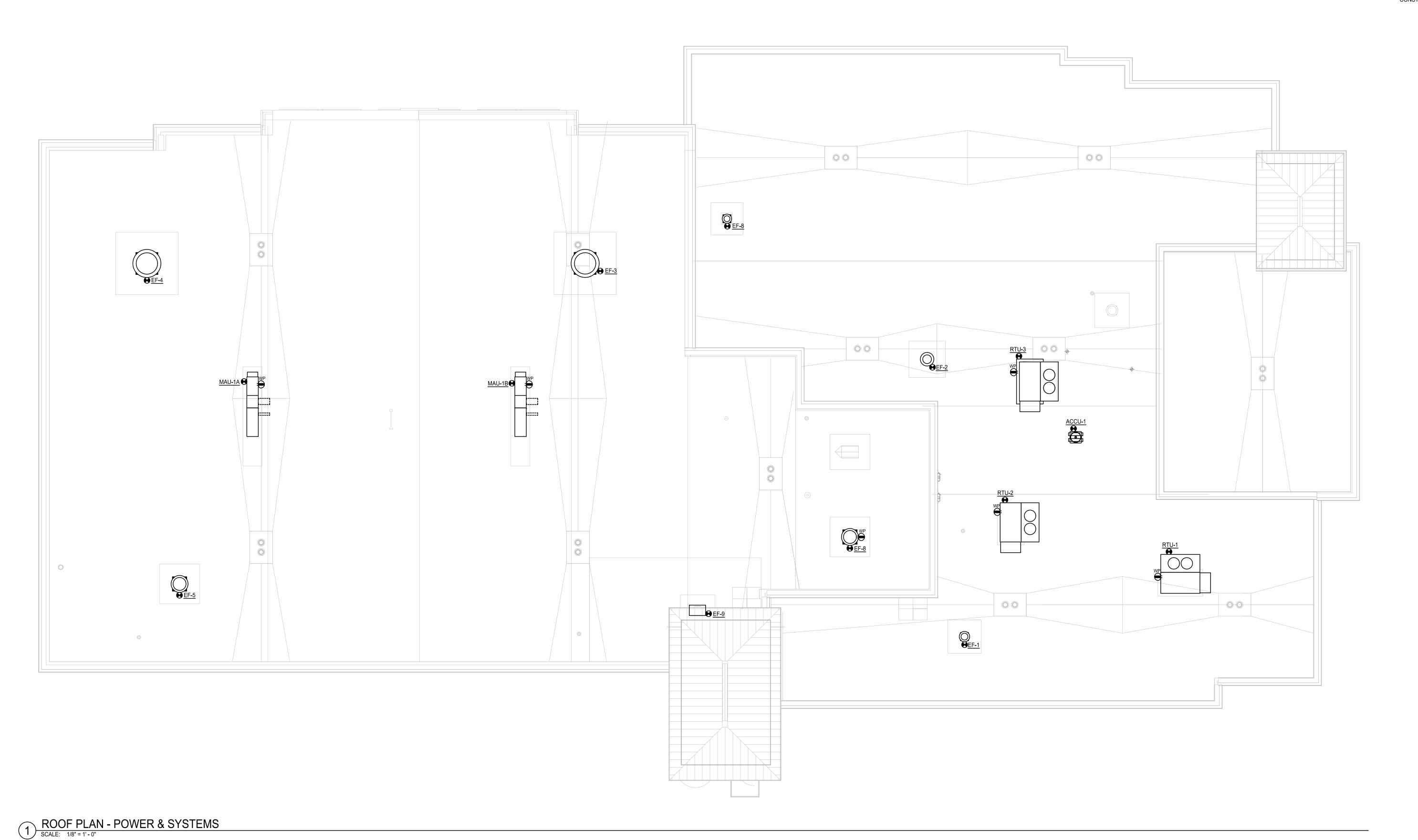
SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING.
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SCALE AS NOTED

DWN. MAP CHK. JFW

PROJ. No. 616501



**GENERAL NOTES:** 

REFER TO DRAWING  $\underline{6502}$  FOR INFORMATION ON WIRING REQUIREMENTS FOR MECHANICAL EQUIPMENT SHOWN ON THIS SHEET.

UNLESS OTHERWISE NOTED, ALL WIRING DEVICES SHALL BE CONNECTED TO PANELBOARD  $\underline{\mathsf{LPPX}}$ , CIRCUIT AS INDICATED.

REFER TO DRAWING  $\underline{6502}$  FOR INFORMATION ON WIRING REQUIREMENTS FOR EQUIPMENT SHOWN ON THIS SHEET.

**CONSTRUCTION NOTES:** CONSTRUCTION NOTES

CONTRACTOR SHALL REVIEW & CONFIRM EXACT LOCATIONS OF ALL OUTLETS AND DATA DROP WITH OWNER, PRIOR TO ROUGH-IN.

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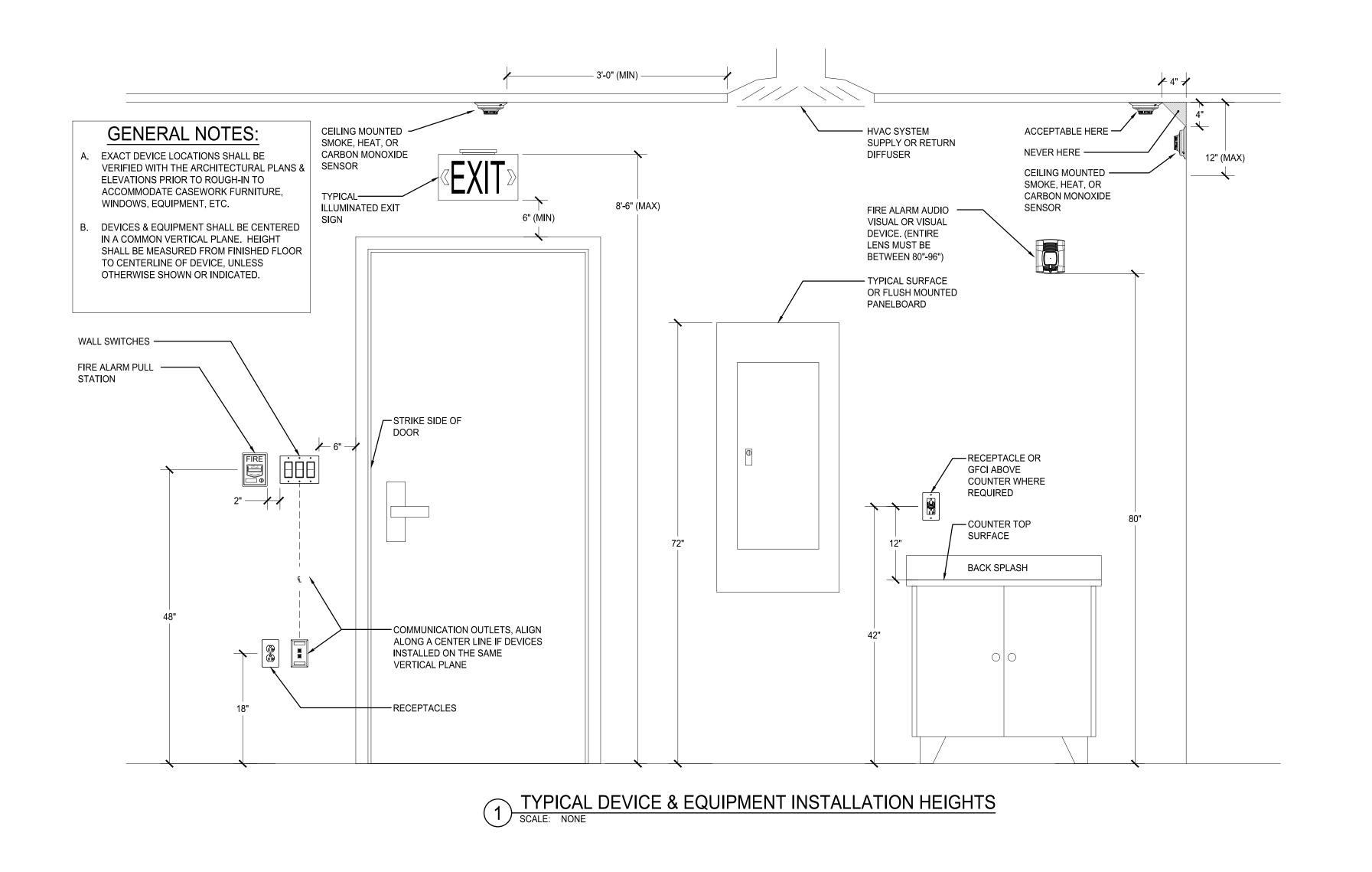
ROOF PLAN - POWER & SYSTEMS

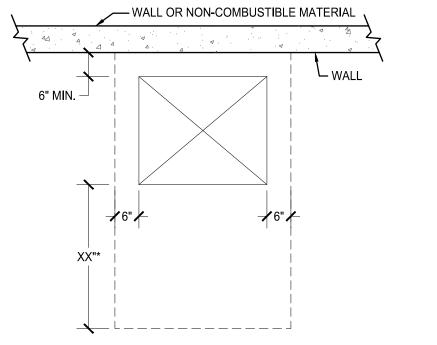
GENERIC SCALE BAR

SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING.

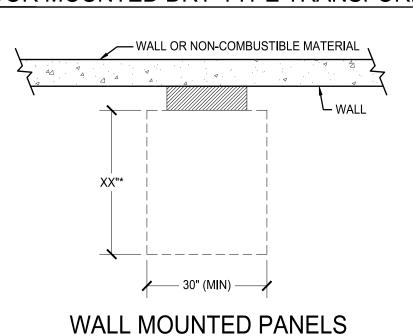
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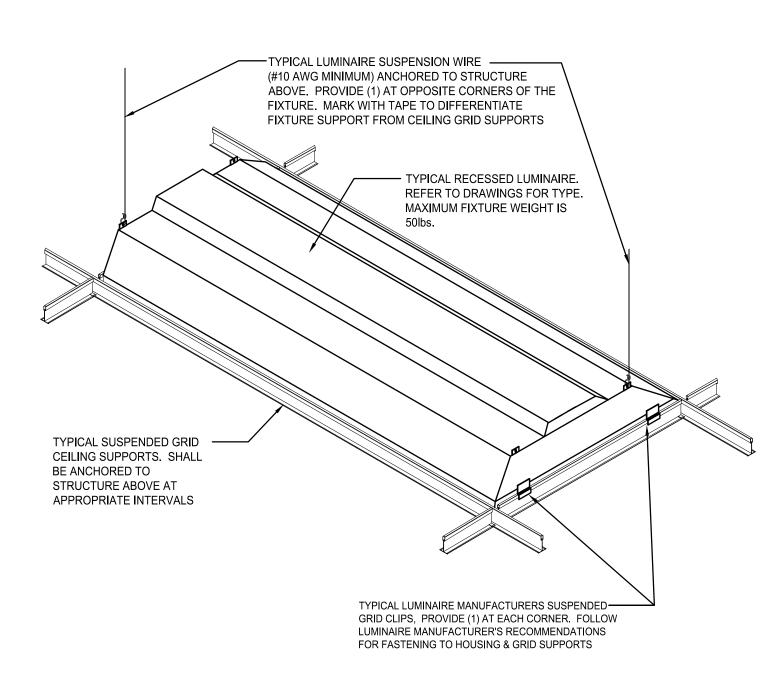
### FLOOR MOUNTED DRY-TYPE TRANSFORMER



(INCLUDING POWER PANELS, CONTRACTORS, CONTROL CABINETS, DISCONNECT

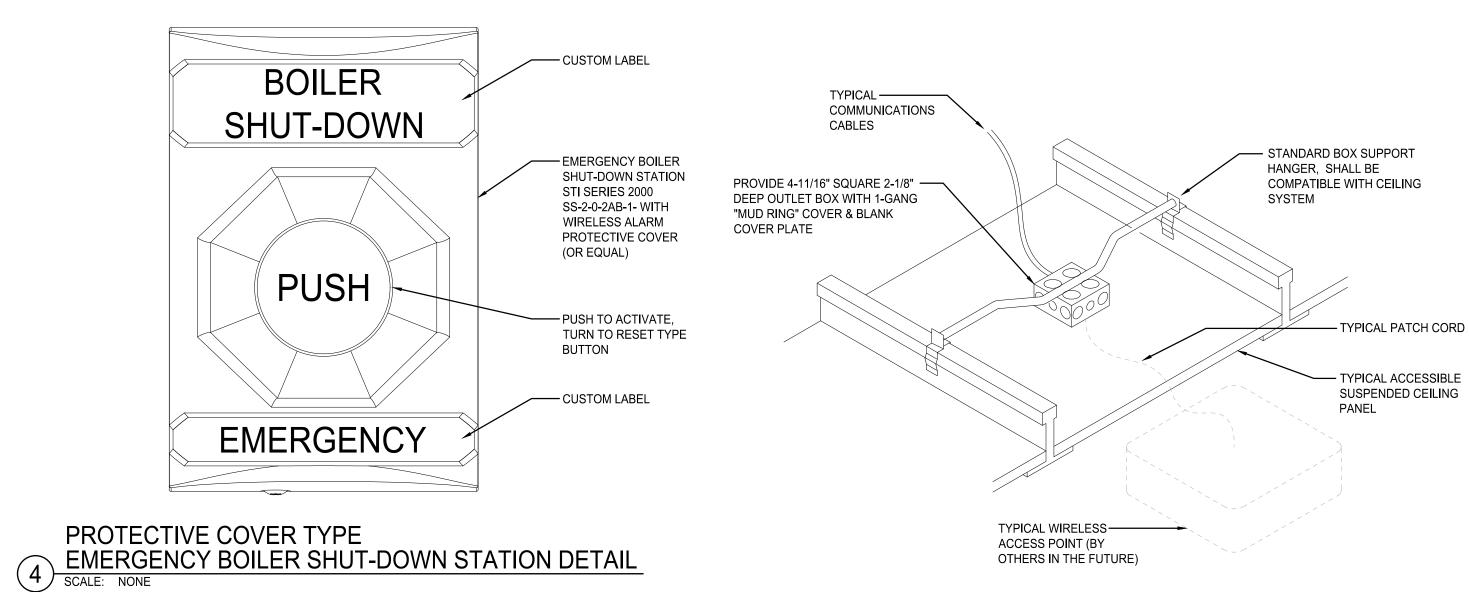
SWITCHES, MOTOR STARTERS, TIME CLOCK & SIMILAR ELECTRICAL EQUIPMENT)

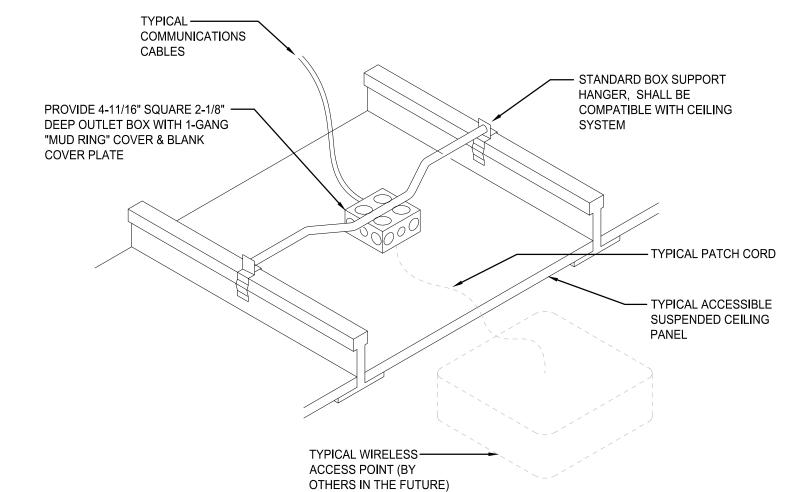
- A. XX"\* IDENTIFIES MINIMUM WORKING SPACE CLEARANCE REQUIREMENTS [IN THE DIRECTION OF ACCESS TO LIVE PARTS AS REQUIRED PER NFPA 70, SECTION 110.26(a)] - 36" FOR 0-150V PHASE TO GROUND ELECTRIC EQUIPMENT. - 42" FOR 150-600V PHASE TO GROUND EQUIPMENT (CONDITION 2 "LIVE TO GROUND") - 48" FOR 150-600V PHASE TO GROUND EQUIPMENT (CONDITION 3 "BETWEEN LIVE EQUIPMENT")
- B. MINIMUM WORKING SPACE HEAD ROOM SHALL BE 78" AFF.
- 2 TYPICAL ELECTRICAL EQUIPMENT CLEARANCES
  SCALE: NONE



3 TYPICAL TROFFER INSTALLATION DETAIL
SCALE: NONE

PROVIDE COMPATIBLE EXTERIOR





### PROVIDE A SINGLE RELAY PANEL WITH UP TO 24 RELAYS OR AS REQUIRED. EACH RELAY TO BE INDIVIDUALLY SCHEDULED THROUGH AN EASY TO USE INTEGRAL CLOCK WITH A BACKLIT 8-LINE LCD DISPLAY. RELAYS ARE TO BE SPST 20 AMP RATED, MECHANICALLY HELD

(7) ASTRO AND SCHED ON/OFF

SPECIFICATIONS:

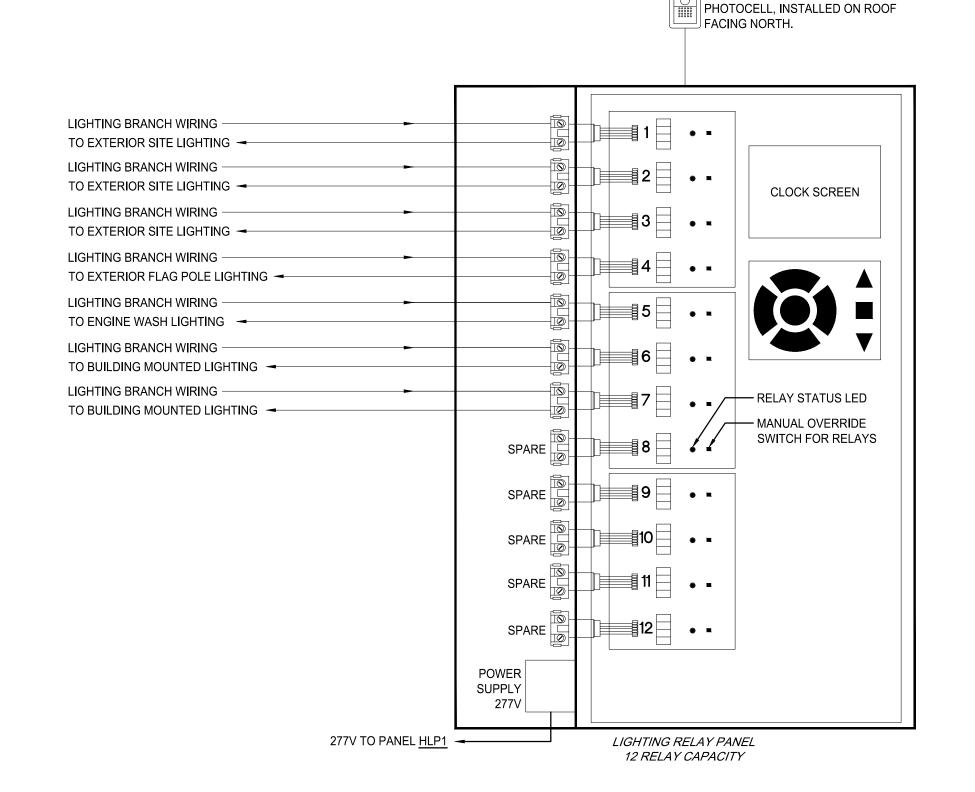
CONTACTORS CAPABLE OF SWITCHING EITHER 120 OR 277VAC LOADS. ADJACENT TO EACH RELAY SHOULD BE A LED TO ANNUNCIATE STATUS & A PUSHBUTTON TO TOGGLE THE RELAY'S STATE. PANEL SHALL HAVE A MULTITAP TRANSFORMER, DESIGNED & MANUFACTURED FOR 120V/277V OPERATION. LIGHTING RELAY PANEL ENCLOSURE SHALL BE NEMA 1, RATED FOR

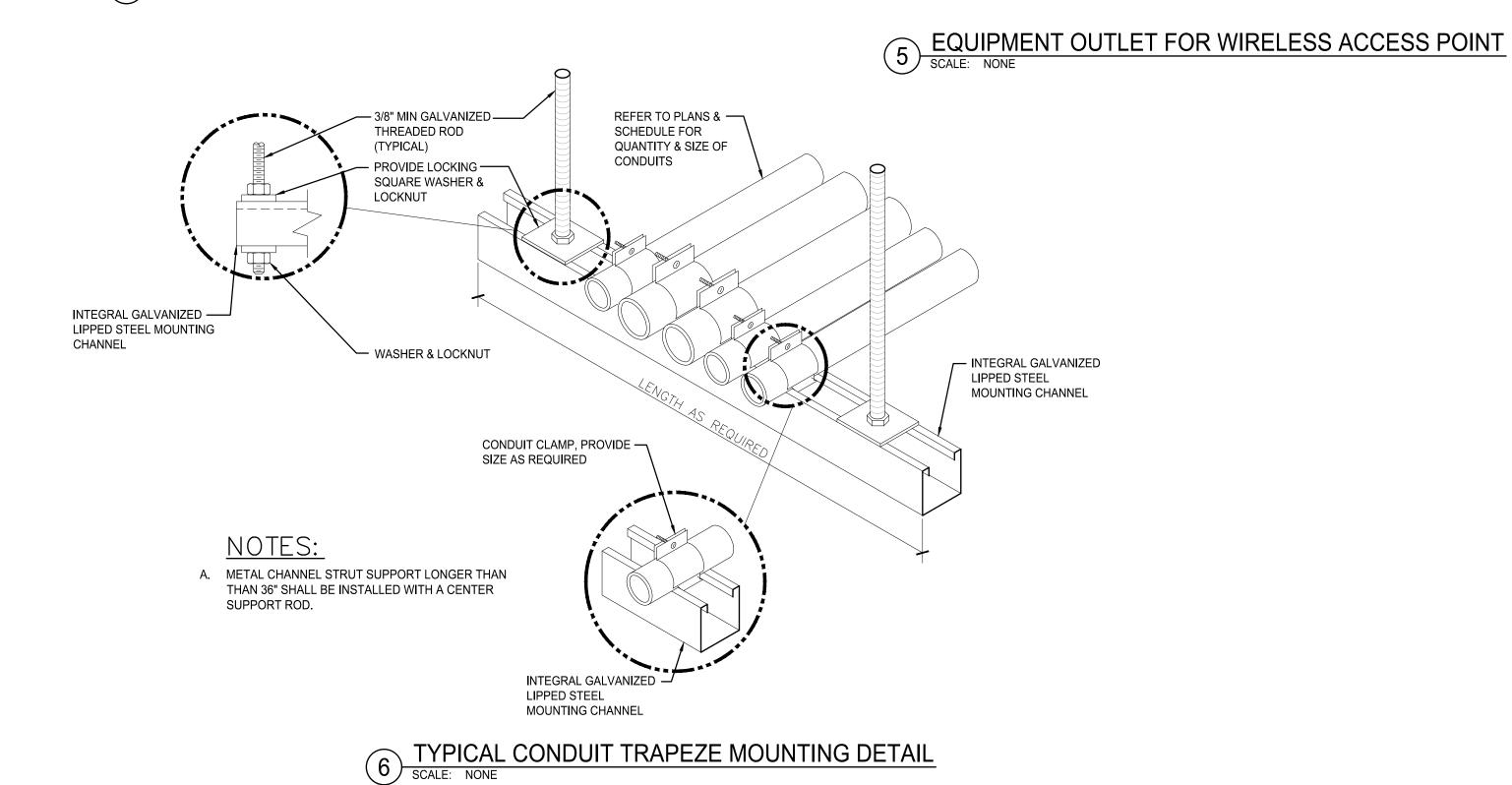
ENVIRONMENTS FROM 32 - 139°F, 5 - 95% RH NON-CONDENSING. PANEL SHALL BE PROVIDED WITH A SPLIT COVER HINGED IN THE CENTER SUCH THAT THE HIGH VOLTAGE SIDE MUST BE UNSCREWED TO ACCESS THE RELAYS, BUT THE LOW VOLTAGE SIDE CAN BE OPENED VIA A LOCKING LATCH.

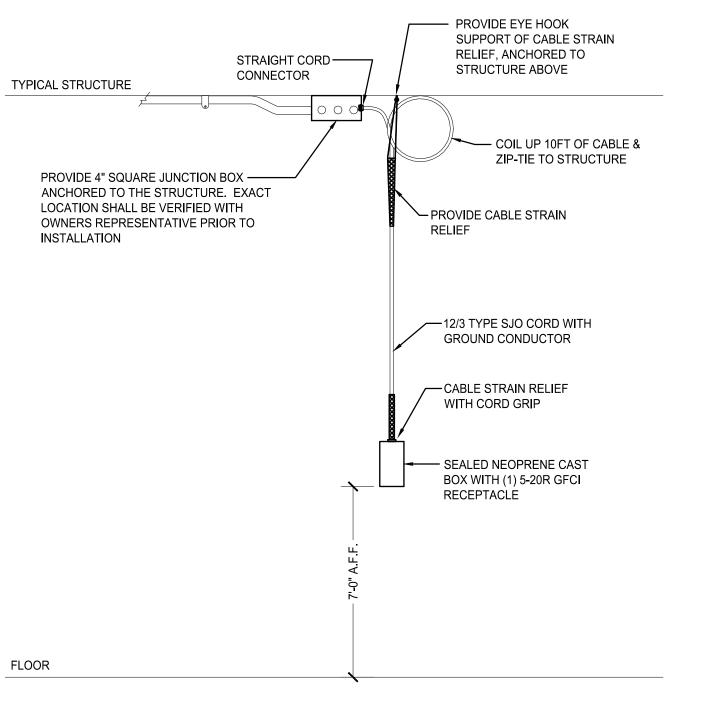
ALL PROGRAMMING TO BE ENTERED VIA A SIMPLE KEYPAD. EACH RELAY CAN BE PROGRAMMED INDEPENDENTLY, OR RELAYS CAN BE GROUPED TOGETHER IN FIRMWARE TO FOLLOW THE SAME CHANNEL SCHEDULE. ON A DAILY 7-DAY REPEATING BASIS, RELAYS CAN BE ASSIGNED TO FOLLOW ANY OF THE FOLLOWING SCENARIOS:

(1) MANUAL ON / SCHED OFF (2) SCHEDULED ON/OFF (3) MANUAL ON / AS SWITCH OFF (FOR USE WITH AS-100 SWITCHES) (4) PHOTOCELL ON/OFF (5) PHOTO & SCHED ON/OFF (6) ASTRONOMIC ON/OFF

THE LCD SCREEN SHOULD NORMALLY SHOW THE CURRENT TIME & DATE, AS WELL AS SUNRISE & SUNSET TIMES FOR THAT DAY. RELAY CHANNELS CAN ALSO BE MONITORED FROM THE DISPLAY TO SEE THEIR STATUS -EITHER ON, OFF, OR MIXED. ADDITIONALLY THE RELAY GROUPS CAN BE OVERRIDEN FROM THE SCREEN. CONTEXT SENSITIVE HELP SHALL BE AVAILABLE FOR EACH SCREEN.







8 TYPICAL POWER DROP CORD INSTALLATION
SCALE: NONE



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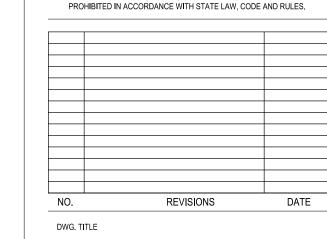
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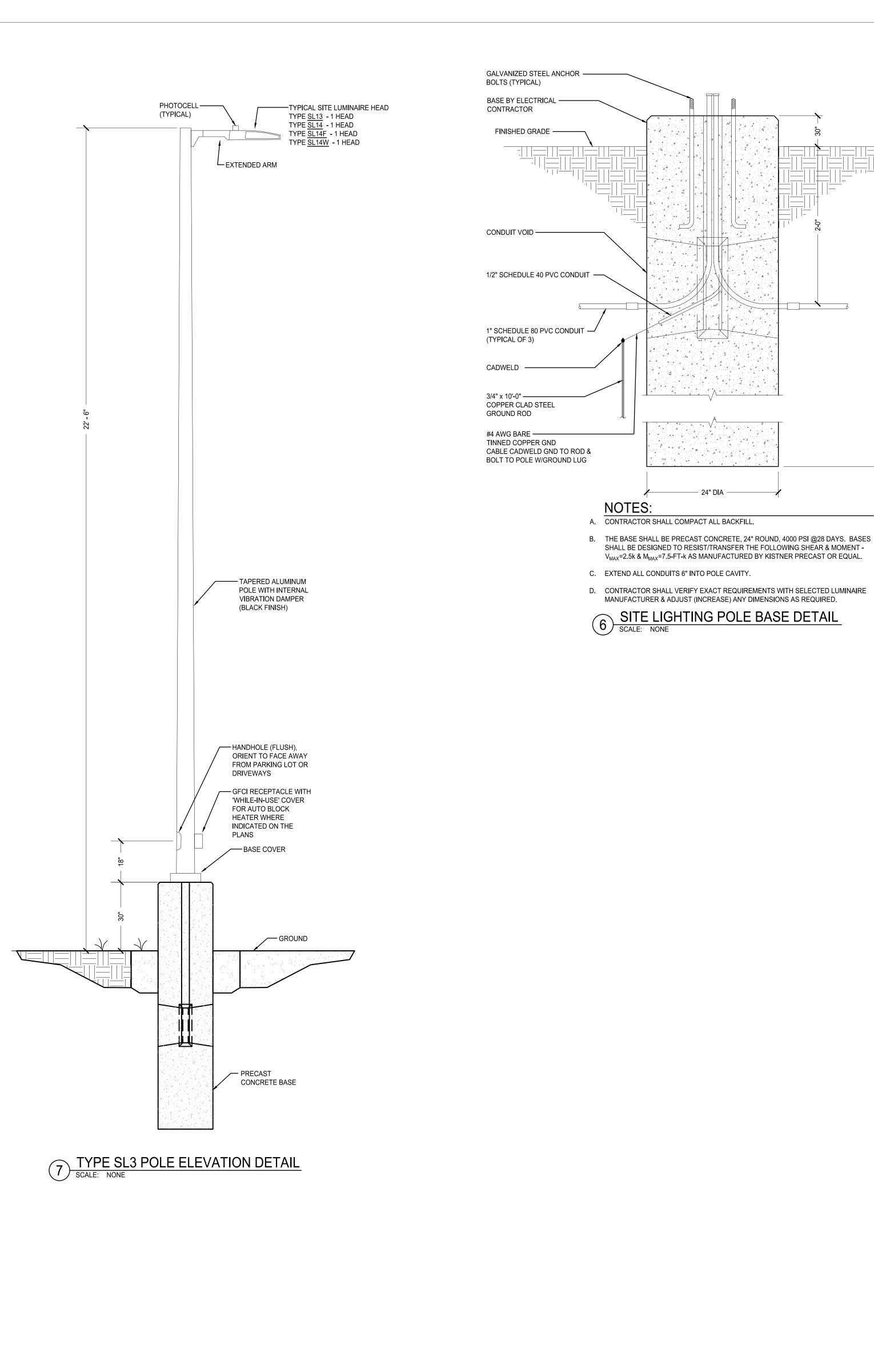
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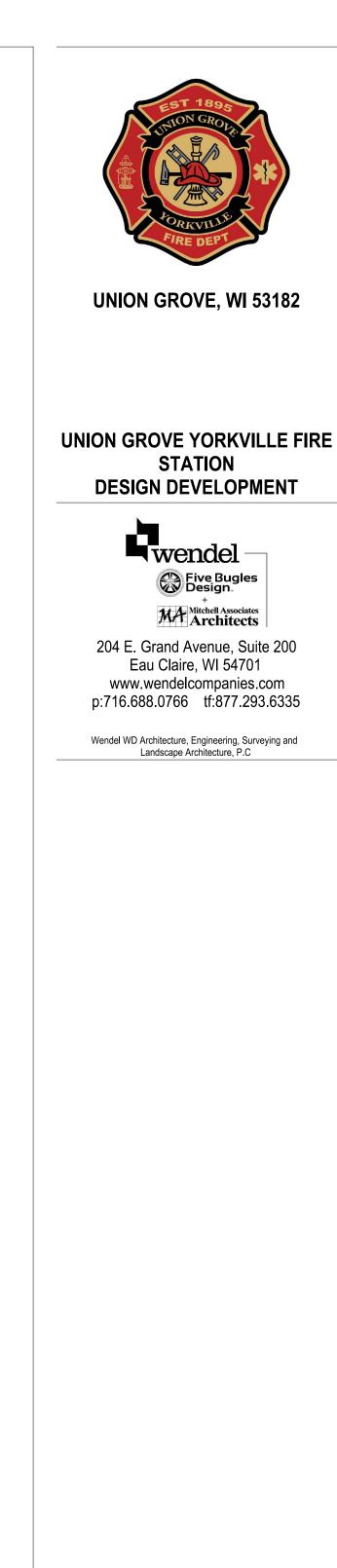


- 24" DIA -

SHALL BE DESIGNED TO RESIST/TRANSFER THE FOLLOWING SHEAR & MOMENT -V<sub>MAX</sub>=2.5k & M<sub>MAX</sub>=7.5-FT-k AS MANUFACTURED BY KISTNER PRECAST OR EQUAL.

MANUFACTURER & ADJUST (INCREASE) ANY DIMENSIONS AS REQUIRED.

TYPICAL SERVICE RATED SWITCHBOARD -3/4"x10' DRIVEN COPPERWELD GROUND RODS, DRIVEN FULL BOND TO ENCLOSURE LENGTH INTO EARTH. TOP OF ROD TO BE MIN. 12" BELOW FINISHED | • • • • GROUND BUS GRADE (TYPICAL OF 3) • • • • NEUTRAL BUS DRIVEN RODS TYPICAL UNDERGROUND WATER ----SERVICE, SHALL BE METAL WATER LINE IN DIRECT CONTACT WITH EARTH FOR SEPARATELY DERIVED SYSTEM MINIMUM OF 10FT. DIESEL/GAS GENERATOR WATER METER — TYPICAL GROUNDING CABLE CLAMP GROUNDING ELECTRODE -CONDUCTOR, SIZE PER NEC TABLE 250.66, GROUNDING JUMPER AROUND METER & CONNECTED TO AN ANY NON-METALIC PIPE SECTIONS APPROVED GROUNDING ELECTRODE WATER SERVICE, IF APPLICABLE 4-POLE AUTOMATIC BUILDING STEEL WHERE EFFECTIVELY TRANSFER SWITCH GROUNDED TO EMBEDDED FOUNDATION TELECOMMUNICATION MAIN GROUND BUS (TMGB) BUILDING STEEL MAIN ELECTRIC GROUND BUS • • • • • • • • • **DETAIL NOTES:** 1. THE GROUNDING ELECTRODE CONDUCTORS SHALL BE SIZED PER NEC TABLE 250.66. THE CONDUCTOR SHALL BE CONNECTED TO AN APPROVED GROUNDING ELECTRODE. #4 AWG OR LARGER BARE COPPER CONDUCTOR — 2. CONNECTION SHALL BE MADE WITHIN 5'-0" OF THE BUILDING ENTRANCE PER NEC 250.52(A)(1). OR STEEL REINFORCING BAR OR ROD NOT LESS THAN 1/2" DIAMETER NOT LESS THEN 20'-0" ——PVC PROTECTIVE 3. GROUND ROD ELECTRODE - PROVIDE PER NEC 250.66(A). PROVIDE 600V CONDUCTOR IN PVC RACEWAY. SLEEVE 4. BONDING CONDUCTOR, #4/0 BARE COPPER GROUNDING CONDUCTOR, INSTALL MIN. 12" BELOW FINISHED GRADE (TYPICAL). 5. GROUNDING ELECTRODE SYSTEM CONDUCTOR, SIZED PER NEC TABLE 250.66. 6. GROUND CONDUCTOR TO TELECOMMUNICATIONS MAIN GROUND BUS, PROVIDE MINIMUM 4/0 AWG. - CONNECTION LISTED 7. PROVIDE GROUND TO OTHER POINTS & EQUIPMENT AS REQUIRED BY NEC ARTICLE 250 & SPECIFICATIONS. 2" MIN. -FOR THE PURPOSE 8. PROVIDE BONDING FOR METAL WATER PIPING & STRUCTURAL STEEL THAT IS NOT INTENTIONALLY GROUNDED PER NEC 250.104 & NEC TABLE 250.66. BUILDING FOUNDATION SHALL BE 9. PROVIDE BONDING FOR OTHER METAL PIPING SUCH AS GAS, & ETC. PER NEC 250.104 & NEC TABLE 250.122. IN DIRECT CONTACT WITH THE EARTH 10. MAIN BONDING JUMPER SIZED PER NEC TABLE 250.66. SIMILAR ITEMS SEPARATING THE CONCRETE FROM THE EARTH IS NOT CONSIDERED TO BE IN "DIRECT CONTACT" WITH THE EARTH 11. MAIN SERVICE PHASE CONDUCTORS WITH GROUNDED NEUTRAL CONDUCTOR(S). 12. GROUNDED NEUTRAL CONDUCTOR(S). CONCRETE ENCASED GROUNDING ELECTRODE, IF APPLICABLE 13. EQUIPMENT GROUND CONDUCTOR, SIZED PER NEC TABLE 250.122. 1 TYPICAL SERVICE GROUNDING ELECTRODE SYSTEM WIRING DIAGRAM
SCALE: NONE DC START SIGNAL ----AC POWER TO EMERGENCY LOADS FROM ATS DC SIGNALS TO AC POWER TO REMOTE VENT OR RADIATOR FAN REMOTE ANNUNCIATOR SET RUNNING --- FINISHED GRADE OF ADJACENT LAWN SIGNALS - FINISHED GRADE OF PAD CONCRETE REMOTE EMERGENCY STOP #4 RE-BARS, 12" O.C., EACH WAY NORMAL AC POWER TO CONTROL **BOX HEATER** — NORMAL AC POWER TO BATTERY HEATER NORMAL AC POWER -TO GENERATOR HEATER - DC POWER TO BATTERY NORMAL AC POWER -TO COOLANT HEATER BATTERY - NORMAL AC POWER CHARGER TO BATTERY CHARGER NORMAL AC POWER -BASE COURSE, 6" MINIMUM DEPTH TO LUBE OIL HEATER SOIL STABILIZATION FABRIC -→ DC SIGNALS TO REMOTE COMPACTED SUBGRADE, FREE OF TOPSOIL -ANNUNCIATOR TYPICAL GENERATOR SET CONTROL & ACCESSORIES WIRING TYPICAL GENERATOR PAD DETAILS **NEW GENERATOR** ├─( ├─ ) | Genset Supplying Load AUTOMATIC TRANSFER Charger AC Failure **SWITCHES** ┌(ယ) | Low Coolant Level REMOTE ANNUNCIATOR PANEL (ELECTRICAL ROOM) GENERATOR Low Fuel Level Check Genset L GENERATOR START SIGNAL Not in Auto → REMOTE TEST Genset Supplying Load High Battery Voltage CONNECTIONS— → XFER INHIBIT Low Coolant Level Low Battery Voltage Check Genset Not in Auto COMMON Genset Running Fail To Start Low Battery Voltage — FIELD WIRING MIN. #12 Weak Battery Low Coolant Temp Fail To Start AWG. CU. VIA NEW 1" RACEWAY Pre-High Engine Temp Pre-High Engine Temp High Engine Temp Lamp Test ○ Pre-Low Oil Pressure High Engine Temp **CONTRACTORS NOTES:** Pre-Low Oil Pressure
Low Oll Pressure \_\_Network \_\_\_\_ Overspeed A. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE Overspeed Overspeed CONCRETE PAD SIZES AND ANCHOR BOLT LOCATIONS FOR THE GENERATOR BEFORE THE START OF CONSTRUCTION. B. THE CONTRACTOR SHALL ALSO PROVIDE ALL REQUIRED WIRING FOR THE BATTERY CHARGER. TYPICAL GENERATOR START CIRCUIT WIRING
SCALE: N.T.S. ANNUNCIATOR CABLE IN 1" SCH.80 PVC CONDUIT GENERATOR REMOTE 5 ANNUNCIATOR WIRING
SCALE: NONE



**PROGRESS** 

NOT FOR

CONSTRUCTION

NOTE:
THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN,
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REVISIONS

**ELECTRICAL** 

**DETAILS** 

GENERIC SCALE BAR

SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING.

IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY

E401

CHK. JFW

DWG. TITLE

DATE 03/17/2025

SCALE AS NOTED DWN. MAP

PROJ. No. 616501

DWG. No.

		LUM	INAIRE	SCH	EDULE			
TYPE	DESCRIPTION	MOUNTING	SHIELDING		DRIVER	LIGHT SOURCE	INPUT WATTS	BASIS OF DESIGN
A6	NOMINAL 6" DIAMETER, RECESSED, LED DOWNLIGHT WITH FOLLOWING MINIMUM SPECIFICATIONS: WIDE BEAM, 2-STAGE REFLECTOR SYSTEM SPECIFICALLY DESIGNED FOR LED SOURCES. FIXTURE MOUNTED JUNCTION BOX WITH DRIVER PRE-WIRED TO THE LED ENGINE. SPECULAR CLEAR REFLECTOR. PROVIDE COMPLETE WITH ALL REQUIRED INSTALLATION HARDWARE, ADJUSTABLE HANGERS, & CEILING CLIPS FOR INSTALLATION IN ASSOCIATED CEILINGS. CEILING TYPES SHALL BE VERIFIED PRIOR TO SUBMITTAL. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS, ENERGY STAR & UL LISTED.	RECESSED	LENSED	TYPE: VOLTAGE: DIMMING: EMERGENCY:	(1) LED DRIVER, 120-277VAC 0-10V INTEGRAL EMERGENCY BATTERY/DRIVER, WHERE INDICATED ON PLANS	TYPE: (1) LED ARRAY LUMENS: 1,500 DELIVERED CCT: 3500K CRI: 90 MIN	16.2	PORTFOLIO - LD6C SERIES  OR EQUAL
<b>E</b> 6	NOMINAL 6" DIAMETER, RECESSED, LED DOWNLIGHT WITH FOLLOWING MINIMUM SPECIFICATIONS: WIDE BEAM, 2-STAGE REFLECTOR SYSTEM SPECIFICALLY DESIGNED FOR LED SOURCES. FIXTURE MOUNTED JUNCTION BOX WITH DRIVER PRE-WIRED TO THE LED ENGINE. SPECULAR CLEAR REFLECTOR. PROVIDE COMPLETE WITH ALL REQUIRED INSTALLATION HARDWARE, ADJUSTABLE HANGERS, & CEILING CLIPS FOR INSTALLATION IN ASSOCIATED CEILINGS. CEILING TYPES SHALL BE VERIFIED PRIOR TO SUBMITTAL. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS, ENERGY STAR & UL LISTED. PROVIDE WITH IP66 GASKET KIT. PROVIDE WITH WALL WASH REFLECTOR AND DISTRIBUTION.	RECESSED	LENSED	TYPE: VOLTAGE: DIMMING: EMERGENCY:	(1) LED DRIVER, 120-277VAC 0-10V N/A	TYPE: (1) LED ARRAY  LUMENS: 1,500 DELIVERED  CCT: 3500K  CRI: 90 MIN	16.2	PORTFOLIO - LD6C SERIES  OR EQUAL
В6	NOMINAL 6" DIAMETER, RECESSED, LED DOWNLIGHT WITH FOLLOWING MINIMUM  SPECIFICATIONS: WIDE BEAM, 2-STAGE REFLECTOR SYSTEM SPECIFICALLY DESIGNED FOR LED  SOURCES. FIXTURE MOUNTED JUNCTION BOX WITH DRIVER PRE-WIRED TO THE LED ENGINE.  SPECULAR CLEAR REFLECTOR. PROVIDE COMPLETE WITH ALL REQUIRED INSTALLATION  HARDWARE, ADJUSTABLE HANGERS, & CEILING CLIPS FOR INSTALLATION IN ASSOCIATED  CEILINGS. CEILING TYPES SHALL BE VERIFIED PRIOR TO SUBMITTAL. LUMINAIRE SHALL BE  DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS, ENERGY  STAR & UL LISTED. PROVIDE WITH IP66 GASKET KIT.	RECESSED	LENSED	<u> </u>	(1) LED DRIVER 120-277VAC 0-10V, DOWN TO 10% INTEGRAL EMERGENCY BATTERY/DRIVER, WHERE INDICATED ON PLANS	SOURCE: (1) LED ARRAY LUMENS: 1,500 DELIVERED CCT: 3500K CRI: 90 MIN	16.2	PORTFOLIO - LD6C SERIES  OR EQUAL
D22	2X2, RECESSED, STATIC, LED ARCHITECTURAL LENSED TROFFER WITH FOLLOWING MINIMUM SPECIFICATIONS: RIGID DIE FORMED CODE GAUGE STEEL HOUSING WITH STEEL HOUSING, DIE FORMED, HEAVY GAUGE FLAT STEEL DOOR WITH REINFORCED MITERED CORNERS. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS.	RECESSED	CENTER DIFFUSER- RIBBED FROSTED EXTRUDED ACRYLIC	<u>VOLTAGE:</u>	(1) LED DRIVER 120-277VAC 0-10V, DOWN TO 10% INTEGRAL EMERGENCY BATTERY/DRIVER, WHERE INDICATED ON PLANS	SOURCE: (1) LED ARRAY LUMENS: 2,000 DELIVERED CCT: 3500K CRI: 85 MIN	16.2	METALUX - CRUZE 22CZ SERIES  OR EQUAL
D42	2X4, RECESSED, STATIC, LED ARCHITECTURAL LENSED TROFFER WITH FOLLOWING MINIMUM SPECIFICATIONS: RIGID DIE FORMED CODE GAUGE STEEL HOUSING WITH STEEL HOUSING, DIE FORMED, HEAVY GAUGE FLAT STEEL DOOR WITH REINFORCED MITERED CORNERS. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS.	RECESSED	CENTER DIFFUSER- RIBBED FROSTED EXTRUDED ACRYLIC	1	(1) LED DRIVER 120-277VAC 0-10V INTEGRAL EMERGENCY BATTERY/DRIVER, WHERE INDICATED ON PLANS	SOURCE: (1) LED ARRAY LUMENS: 5,000 DELIVERED CCT: 3500K CRI: 90 MIN	39.9	METALUX - CRUZE 24CZ SERIES  OR EQUAL
DT42	2X4, RECESSED, STATIC, LED ARCHITECTURAL LENSED TROFFER WITH FOLLOWING MINIMUM SPECIFICATIONS: COLOR TUNING CCT, RIGID DIE FORMED CODE GAUGE STEEL HOUSING WITH TEEL HOUSING, DIE FORMED, HEAVY GAUGE FLAT STEEL DOOR WITH REINFORCED MITERED CORNERS. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS.	RECESSED	CENTER DIFFUSER- RIBBED FROSTED EXTRUDED ACRYLIC	1	(1) LED DRIVER 120-277VAC 0-10V INTEGRAL EMERGENCY BATTERY/DRIVER, WHERE INDICATED ON PLANS	SOURCE: (1) LED ARRAY LUMENS: 5,000 DELIVERED CCT: 3500K CRI: 85 MIN	39.6	METALUX - CRUZE 24CZ2 SERIES  OR EQUAL
SW4	NARROW, 4FT, PENDANT OR SURFACE MOUNTED, LED, LENSED BARE STRIPLIGHT TYPE LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: HOUSING SHALL CONSIST OF DIE FORMED CHANNEL THAT IS COLD ROLLED HEAVY GAGE STEEL. CHANNEL HOUSING SHALL CONTAIN LED DRIVER & PROVIDE AN ASSEMBLY FOR MOUNTING LED ARRAYS & CURVED LENSING OPTIONS. LUMINAIRE SHALL DESIGNED & MANUFACTURED TO ALLOW FOR WIDE OPTICAL DISTRIBUTION. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS. DLC LISTED.	PENDANT OR SURFACE	WIDE DISTRIBUTION CURVED ACRYLIC LENS		(1) LED DRIVER 120-277VAC 0-10V INTEGRAL EMERGENCY BATTERY/DRIVER, WHERE INDICATED ON PLANS	SOURCE: (1) LED ARRAY LUMENS: 4,400 DELIVERED CCT: 3500K CRI: 85 MIN	37	METALUX - SNLED LENSED SERIES  OR EQUAL
SW8	NARROW, 8FT, PENDANT OR SURFACE MOUNTED, LED, LENSED BARE STRIPLIGHT TYPE LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: HOUSING SHALL CONSIST OF DIE FORMED CHANNEL THAT IS COLD ROLLED HEAVY GAGE STEEL. CHANNEL HOUSING SHALL CONTAIN LED DRIVER & PROVIDE AN ASSEMBLY FOR MOUNTING LED ARRAYS & CURVED LENSING OPTIONS. LUMINAIRE SHALL DESIGNED & MANUFACTURED TO ALLOW FOR WIDE OPTICAL DISTRIBUTION. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS. DLC LISTED.	PENDANT OR SURFACE	WIDE DISTRIBUTION CURVED ACRYLIC LENS		(1) LED DRIVER 120-277VAC 0-10V INTEGRAL EMERGENCY BATTERY/DRIVER, WHERE INDICATED ON PLANS	SOURCE: (1) LED ARRAY LUMENS: 9,000 DELIVERED CCT: 3500K CRI: 85 MIN	75	METALUX - SNLED LENSED SERIES  OR EQUAL
HBW12	20"x48", SUSPENDED, INDUSTRIAL, HIGH-BAY LED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: HOUSING SHALL CONSIST OF CHANNEL & END PLATES BOTH MANUFACTURED FROM DIE-FORMED STEEL. HOUSING SHALL BE MANUFACTURED WITH PROVISIONS TO STIFFEN THE LUMINAIRE ASSEMBLY. REFLECTORS SHALL BE PRECISION DESIGNED FOR A <u>WIDE</u> TYPE DISTRIBUTION. PROVIDE WIRE HOOK & CHAIN SET MOUNTING. PROVIDE PRISMATIC ACRYLIC LENS & DOOR FRAME. REFER TO FLOOR PLANS FOR EXACT LENGTH REQUIRED. LUMINAIRE SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS, DLC & UL LISTED.	SUSPENDED	PRISMATIC ACRYLIC	1	(1) LED DRIVER 120-277VAC 0-10V INTEGRAL EMERGENCY BATTERY/DRIVER, WHERE INDICATED ON PLANS	SOURCE: (1) LED ARRAY LUMENS: 12,000 DELIVERED CCT: 5000K CRI: 80 MIN	72.7	METALUX - HB LED SERIES  OR EQUAL
T22	2X2, RECESSED, STATIC, LENSED LED TROFFER WITH FOLLOWING MINIMUM SPECIFICATIONS: COLD ROLLED STEEL HOUSING WITH FULL LENGTH STIFFENERS ADDED FOR HOUSING RIGIDITY. UNIT SHALL BE DESIGNED FOR INSTALLATION IN GWB TYPE CEILING. PROVIDE ALL REQUIRED MOUNTING HARDWARE. DOOR TRIM SHALL BE FULL SIZE, FLUSH WHITE, EXTRUDED ALUMINUM WITH SPRING LATCHES. PAINTED AFTER FABRICATION. DLC LISTED	RECESSED	A12 PATTERN ACRYLIC (0.125" HP)		(1) LED DRIVER 120-277VAC 0-10V INTEGRAL EMERGENCY BATTERY/DRIVER, WHERE INDICATED ON PLANS	SOURCE: (1) LED ARRAY LUMENS: 3,600 DELIVERED CCT: 3500K CRI: 80 MIN	34.5	METALUX - 22GR LED SERIES  OR EQUAL
T42	2X4, RECESSED, STATIC, LENSED LED TROFFER WITH FOLLOWING MINIMUM SPECIFICATIONS: COLD ROLLED STEEL HOUSING WITH FULL LENGTH STIFFENERS ADDED FOR HOUSING RIGIDITY. UNIT SHALL BE DESIGNED FOR INSTALLATION IN GWB TYPE CEILING. PROVIDE ALL REQUIRED MOUNTING HARDWARE. DOOR TRIM SHALL BE FULL SIZE, FLUSH WHITE, EXTRUDED ALUMINUM WITH SPRING LATCHES. PAINTED AFTER FABRICATION. DLC LISTED	RECESSED	A12 PATTERN ACRYLIC (0.125" HP)		(1) LED DRIVER 120-277VAC	SOURCE: (1) LED ARRAY LUMENS: 4,800 DELIVERED CCT: 3500K CRI: 80 MIN	37.4	METALUX - 24GR LED SERIES  OR EQUAL
SL	LED STEPLIGHT WITH FOLLOWING MINIMUM SPECIFICATIONS: DIE-CAST ALUMINUM HOUSING, DIE-CAST ALUMINUM REFLECTOR WITH INTEGRAL HEAT SINK, WET LOCATION RATED. HORIZONTAL RECTANGLE SHAPE. MATTE WHITE FINISH	WALL MOUNTED	HIGH-IMPACT RESISTANT	i .	(1) LED DRIVER 120-277VAC 0-10V INTEGRAL EMERGENCY BATTERY/DRIVER, WHERE INDICATED ON PLANS	SOURCE: (1) LED ARRAY LUMENS: 24 DELIVERED CCT: 3500K CRI: 80 MIN	2	KENALL - MCSL SERIES  OR EQUAL
EXIT	ILLUMINATED "EXIT" SIGN. SHALL BE CONCEALED LED TYPE IN WHITE STEEL HOUSING. DESIGNED FOR SELF POWERED OPERATION WITH BATTERY BACKUP & INTEGRAL TEST CAPABILITY. UNIVERSAL MOUNTING CAPABILITY. UNIVERSAL CHEVRON STYLE KNOCKOUTS. REFER TO DRAWINGS FOR REQUIRED DIRECTIONS. SHALL BE DESIGNED & MANUFACTURED TO MEET UL 924 STANDARD.	SURFACE OR WALL MOUNTED	N/A			SOURCE: LONG LIFE RED LED  LUMENS: N/A  CCT: N/A  CRI: N/A	1	SURE-LITES - SLX SERIES  OR EQUAL
EG2	DECORATIVE EGRESS LUMINAIRE, NOMINAL 3FT LONG, WALL MOUNTED LINEAR LED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: EXTRUDED ALUMINUM HOUSING WITH INTEGRAL OPTICS & ELECTRICAL COMPONENTS. LUMINAIRE SHALL BE SEALED BY MEANS OF CLOSED CELL NEOPRENE GASKET BETWEEN FIXTURE & WALL AS WELL AS HOUSING & DOOR. INSTALLED ABOVE THE DOOR WHERE SHOWN TO PROVIDE EGRESS ILLUMINATION FOR OCCUPANTS. UL LISTED FOR WET LOCATION.	WALL MOUNTED	CLEAR EXTRUDED POLYCARBONATE	VOLTAGE:	(1) REMOTE MOUNTED LED DRIVER MULTI VOLT N/A PROVIDE WITH MICRO INVERTER FOR EMERGENCY BACKUP	SOURCE: (1) LED ARRAY LUMENS: 1,310 DELIVERED CCT: 4000K CRI: 80 MIN	15	LUMINAIRE LIGHTING CORP - AEL SERIES  OR EQUAL
VT4	4FT LONG, SURFACE OR PENDANT MOUNTED, LED, VAPORTITE LUMINAIRE WITH NON-METALLIC HOUSING & ACRYLIC LENS. STAINLESS STEEL LATCHES. PRECISION OPTICS FOR <b>WIDE</b> DISTRIBUTION. UL LISTED FOR WET LOCATIONS. LUMINAIRE SHALL HAVE AN INTEGRATED OCCUPANCY AND DAYLIGHT DIMMING SENSOR.	PENDANT OR SURFACE	FROSTED LENS HIGH IMPACT	<u>VOLTAGE:</u> <u>DIMMING:</u>	(1) LED DRIVER 120-277VAC	SOURCE: (1) LED ARRAY LUMENS: 4,000 DELIVERED CCT: 4000K CRI: 85 MIN	30	METALUX - VT2 SERIES  OR EQUAL
UC1	LINEAR MICRO CHANNEL WALL GRAZER. TAPE LED TO BE DIMMABLE, INDUSTRIAL HEAVY DUTY ADHESIVE BACKING, INTERVAL CUT LENGTHS NOT TO EXCEED 2". PROVIDE WITH 24 VOLT POWER SUPPLY. PROVIDE KELVIX EXTRUDED ALUMINUM MOUNTING CHANNEL CH-014-C FOR SURFACE MOUNTED INSTALLATION, FROSTED LENS AND END CAPS	SURFACE	FROSTED	1	(1) LED DRIVER 120-277VAC 0-10V INTEGRAL EMERGENCY BATTERY/DRIVER, WHERE INDICATED ON PLANS	SOURCE: (1) LED ARRAY  LUMENS: 300 DELIVERED PER FT  CCT: 3500K  CRI: 90 MIN	5.3 PER FOOT	KELVIX DIRECT VIEW 300 SERIES  OR EQUAL

EXTERIOR, WALL MOUNTED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: HOUSING SHALL BE EXTRUDED ALUMINUM WITH THERMALLY ISOLATED DRIVER AND OPTICAL CHAMBERS. INTEGRAL DRIVER AND HEAT SINK. EXTRUDED ALUMINUM ARM MATCHING THE FIXTURE. OPTICS SHALL BE TYPE IV WITH SPILL CONTROL DISTRIBUTION. UL LISTED FOR WET LOCATION (IP66 MINIMUM) THIS LED FIXTURE SHALL BE DESIGNED & TESTED IN ACCORDANCE WITH IESNA LM-79 & 80. PROVIDE COMPLETE WITH FIXTURE WALL MOUNTED BRACKET WINGS. ENTIRE ASSEMBLY SHALL BE FINISHED BLACK.  DECORATIVE RGBW WALL MOUNTED LINEAR LED LUMINAIRE WITH FOLLOWING MINIMUM	WALL MOUNTED	N/A					WATTS	
DECORATIVE RGBW WALL MOUNTED LINEAR LED LUMINAIRE WITH FOLLOWING MINIMUM			TYPE: VOLTAGE: DIMMING: EMERGENCY:	(1) LED DRIVER 120-277VAC 0-10V INTEGRAL EMERGENCY BATTERY/DRIVER, WHERE INDICATED ON PLANS	LUMENS: CCT:	(1) LED ARRAY 6,778 DELIVERED 4000K 80 MIN	67	McGRAW-EDISON - GWC SERIES  OR EQUAL
SPECIFICATIONS: ALUMINUM HOUSING WITH INTEGRAL OPTICS & ELECTRICAL COMPONENTS. LUMINAIRE SHALL BE SEALED AND RATED IP66. UL LISTED FOR WET LOCATION. PROVIDE WITH RGBW OPTION. HIGH OUTPUT LUMENS PACKAGE. PROVIDE COMPLETE PHAROS KIT FOR DMX CONTROLS.	WALL MOUNTED	MOULDED WHITE & UV STABILIZED ACRYLIC	TYPE: VOLTAGE: DIMMING: EMERGENCY:	(1) LED DRIVER 120-277VAC 0-10V INTEGRAL EMERGENCY BATTERY/DRIVER, WHERE INDICATED ON PLANS	LUMENS: CCT:	(1) LED ARRAY 1,253 DELIVERED 4000K 80 MIN	24	LUMENPULSE - ELEMENT SERIES  OR EQUAL
8FT, PENDANT LINER SLOT TYPE LED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: HOUSING SHALL BE EXTRUDED ALUMINUM WITH SNAP-IN LENS. 4" WIDE HOUSING INTEGRAL ELECTRICAL COMPONENTS ACCESSIBLE FROM BELOW. PROVIDE COMPLETE WITH ALL REQUIRED HARDWARE.	PENDANT	SNAP-IN, SATIN FLUSH DIFFUSER	TYPE: VOLTAGE: DIMMING: EMERGENCY:		LUMENS: CCT:	(1) LED ARRAY 6,360 DELIVERED 3500K 90 MIN	53.6	FINELITE - HP4 PENDANT LED SERIES  OR EQUAL
4FT, PENDANT LINER SLOT TYPE LED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: HOUSING SHALL BE EXTRUDED ALUMINUM WITH SNAP-IN LENS. 4" WIDE HOUSING INTEGRAL ELECTRICAL COMPONENTS ACCESSIBLE FROM BELOW. PROVIDE COMPLETE WITH ALL REQUIRED HARDWARE.	PENDANT	SNAP-IN, SATIN FLUSH DIFFUSER	TYPE: VOLTAGE: DIMMING: EMERGENCY:	(1) LED DRIVER 120-277VAC 0-10V INTEGRAL EMERGENCY BATTERY/DRIVER, WHERE	LUMENS: CCT:	3500К	26.8	FINELITE - HP4 PENDANT LED SERIES  OR EQUAL
8FT, RECESSED LINER SLOT TYPE LED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: NARROW EXTRUDED ALUMINUM 2.5" APERTURE, EXTRUDED ACRYLIC LENSE .07" THICK, UL AND cUL LISTED, DRY AND DAMP CONDITIONS SUITBLE.	RECESSED	ACRYLIC LENS WITH SATIN FINISH	VOLTAGE:	(1) LED DRIVER 120-277VAC 0-10V INTEGRAL EMERGENCY BATTERY/DRIVER, WHERE	LUMENS: CCT:	5,364 DELIVERED 4000K	47.4	FOCAL POINT - SEEM 2 RECESSED SERIES  OR EQUAL
NARROW 2.5" SUSPENDED DIRECT LED LUMINAIRE WITH THE FOLLOWING MINIMUM SPECIFICATIONS:	SUSPENDED	FROSTED ACRYLIC	VOLTAGE: DIMMING:	(1) LED DRIVER 120-277VAC 0-10V	LUMENS: CCT:	625 DELIVERED PER FOOT 3500K	5.3 PER FOOT	FOCAL POINT - SEEM SWEEP 2 SERIES  OR EQUAL
2'SURFACE MOUNTED LED COVE LIGHT WITH THE FOLLOWING MINIMUM SPECIFICATIONS: POWEDER COATED EXTRUDED ALUMINUM HOUSING, STAINLESS STEEL HOUSING HARDWARE, UV STABILIZED POLYCARBONATE INJECTION MOLDED LENS WITH INTEGRAL SILICON GASKET. IP66 RATED.	SURFACE	CLEAR POLYCARBONATE LENS	VOLTAGE:	120-277VAC 0-10V, DOWN TO 1% INTEGRAL EMERGENCY BATTERY/DRIVER, WHERE	LUMENS: CCT:	2,578 DELIVERED 3000K	22	ELP LIGHTING - CLM LED SERIES  OR EQUAL
4FT, RECESSED LINER SLOT TYPE LED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: NARROW EXTRUDED ALUMINUM 2.5" APERTURE, EXTRUDED ACRYLIC LENSE .07" THICK, UL AND CUL LISTED, DRY AND DAMP CONDITIONS SUITBLE.	RECESSED	ACRYLIC LENS WITH SATIN FINISH	VOLTAGE:	(1) LED DRIVER 120-277VAC 0-10V INTEGRAL EMERGENCY BATTERY/DRIVER, WHERE	LUMENS: CCT:	2,682 DELIVERED 3500K	23.7	FINELITE - HP2-R RECESSED SERIES
SINGLE HEAD, POLE MOUNTED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: HOUSING SHALL BE EXTRUDED ALUMINUM WITH THERMALLY ISOLATED DRIVER AND OPTICAL CHAMBERS. INTEGRAL DRIVER AND HEAT SINK. EXTRUDED ARM MATCHING THE FIXTURE. OPTICS SHALL BE TYPE III WITH SPILL CONTROL DISTRIBUTION. ULLISTED FOR WET LOCATION (IP66 MINIMUM) THIS LED FIXTURE SHALL BE DESIGNED & TESTED IN ACCORDANCE WITH IESNA LM-79 & 80. ENTIRE ASSEMBLY SHALL BE FINISHED BLACK. PROVIDE COMPLETE WITH CONCRETE BASE. PROVIDE TAMPER RESISANT HAND HOLE COVER FOR POLE.	POLE MOUNTED	N/A	VOLTAGE:	(1) LED DRIVER 120-277VAC	LUMENS: CCT:	1,310 DELIVERED 4000K	66	McGRAW-EDISON - GLEON SERIES OR EQUAL
POLE SHALL BE 20 FEET HIGH & COMPATIBLE WITH LIGHT FIXTURE. FINISH TO MATCH THE LUMINAIRE.  SINGLE HEAD, POLE MOUNTED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: HOUSING SHALL BE EXTRUDED ALUMINUM WITH THERMALLY ISOLATED DRIVER AND OPTICAL CHAMBERS. INTEGRAL DRIVER AND HEAT SINK. EXTRUDED ARM MATCHING THE FIXTURE. OPTICS SHALL BE TYPE IV WITH SPILL CONTROL DISTRIBUTION. UL LISTED FOR WET LOCATION (IP66 MINIMUM) THIS LED FIXTURE SHALL BE DESIGNED & TESTED IN ACCORDANCE WITH IESNA LM-79 & 80. ENTIRE ASSEMBLY SHALL BE FINISHED BLACK. PROVIDE COMPLETE WITH CONCRETE BASE. PROVIDE TAMPER RESISANT HAND HOLE COVER FOR POLE.	POLE MOUNTED	N/A	VOLTAGE: DIMMING:	120-277VAC 0-10V	LUMENS: CCT:	1,310 DELIVERED 4000K	66	McGRAW-EDISON - GLEON SERIES OR EQUAL
POLE SHALL BE 20 FEET HIGH & COMPATIBLE WITH LIGHT FIXTURE. FINISH TO MATCH THE LUMINAIRE.								
SINGLE HEAD, POLE MOUNTED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: HOUSING SHALL BE EXTRUDED ALUMINUM WITH THERMALLY ISOLATED DRIVER AND OPTICAL CHAMBERS. INTEGRAL DRIVER AND HEAT SINK. EXTRUDED ARM MATCHING THE FIXTURE. OPTICS SHALL BE TYPE IV FORWARD THROW. ULLISTED FOR WET LOCATION (IP66 MINIMUM) THIS LED FIXTURE SHALL BE DESIGNED & TESTED IN ACCORDANCE WITH IESNALM-79 & 80. ENTIRE ASSEMBLY SHALL BE FINISHED BLACK. PROVIDE COMPLETE WITH CONCRETE BASE. PROVIDE TAMPER RESISANT HAND HOLE COVER FOR POLE.	POLE MOUNTED	N/A	VOLTAGE:	120-277VAC	LUMENS: CCT:	1,310 DELIVERED 4000K	66	McGRAW-EDISON - GLEON SERIES OR EQUAL
POLE SHALL BE 20 FEET HIGH & COMPATIBLE WITH LIGHT FIXTURE. FINISH TO MATCH THE LUMINAIRE.								
AL LUMINAIRE SCHEDULE NOTES:	ELICED FOR OUR TO	ND DEDEODRAANCE COU.	, White in 10.0.	TED "OD EOLIAL" LUN (INICIDE -		ATED DEVICES MARKUTS ACT	LIDED BY OTHER	CCUALL DE EQUALVACCERTARLE COCUMENT
EET OR EXCEED IN PERFORMACE AND QUALITY OF THE BASIS OF DESIGN LUMINAIRE.	·	ND PERFURIVIANCE ONLY	. WHERE INDICA	TIED OK EQUAL" LUMINAIRE AN	יייי וחבוג ASSOCI	ATED DEVICES IMANUFACT	OKED BI OTHER!	o onall de equaly accep IABLE PROVIDEI
ONTRACTOR SHALL VERIFY VOLTAGE SUPPLY TO EACH LUMINAIRE PRIOR TO ORDERING THE APPROV LL LUMINIARES SHALL BE FURNISHED COMPLETE WITH SPECIFIED LAMPS IF APPLICABLE.	'ED FIXTURE.							
	ELECTRICAL COMPONENTS ACCESSIBLE FROM BELOW. PROVIDE COMPLETE WITH ALL REQUIRED HARDWARE.  8FT, RECESSED LINER SLOTTYPE LED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: NARROW EXTRUDED ALUMINUM 2.5" APERTURE, EXTRUDED ACRYLIC LENSE .07" THICK, UL AND CULL LISTED, DRY AND DAMP CONDITIONS SUITBLE.  NARROW 2.5" SUSPENDED DIRECT LED LUMINAIRE WITH THE FOLLOWING MINIMUM SPECIFICATIONS: POWEDER COATED EXTRUDED ALUMINUM HOUSING, STAINLESS STEEL HOUSING HARDWARE, UV STABILIZED POLYCARBONATE INJECTION MOLDED LENS WITH INTEGRAL SILICON GASKET. IP66 RATED.  4FT, RECESSED LINER SLOT TYPE LED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: NARROW EXTRUDED ALUMINUM 2.5" APERTURE, EXTRUDED ACRYLIC LENSE .07" THICK, UL AND CULLISTED, DRY AND DAMP CONDITIONS SUITBLE.  SINGLE HEAD, POLE MOUNTED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: NARROW EXTRUDED ALUMINUM 2.5" APERTURE, EXTRUDED ACRYLIC LENSE .07" THICK, UL AND CULLISTED, DRY AND DAMP CONDITIONS SUITBLE.  SINGLE HEAD, POLE MOUNTED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: HOUSING SHALL BE EXTRUDED ALUMINUM WITH THERMALLY ISOLATED DRIVER AND OPTICAL CHAMBERS. INTEGRAL DRIVER AND HEAT SINK. EXTRUDED ARM MATCHING THE FIXTURE. OPTICS SHALL BE TYPE IN WITH SPILL CONTROL DISTRIBUTION. UL LISTED FOR WET LOCATION (1)P66 MINIMUM) THIS LED HIX INRES SHALL BE DESIGNED & TESTED IN ACCORDANCE WITH LISMA LM-79 & 80. ENTIRE ASSEMBLY SHALL BE INSHED BLACK, PROVIDE COMPLETE WITH CONCRETE BASE. PROVIDE TAMPER RESISANT HAND HOLE COVER FOR POLE.  POLE SHALL BE 20 FEET HIGH 8. COMPATIBLE WITH LIGHT FIXTURE. FINISH TO MATCH THE LUMINAIRE.  POLE SHALL BE 20 FEET HIGH 8. COMPATIBLE WITH LIGHT FIXTURE. FINISH TO MATCH THE LUMINAIRE. SINGLE HEAD POLE MOUNTED LUMINAIRE WITH HERMALLY ISOLATED DRIVER AND OPTICAL CHAMBERS. INTEGRAL DRIVER AND HOLE COVER FOR POLE.  POLE SHALL BE TYPE THE DIEVE AND HEAT SINK. EXTRUDED ARM MATCHING THE FIXTURE. OPTICA SHALL BE 12PER MOUNTED LUMINAIRE WITH HERMALLY ISOLATED DRIVER AND OPTICAL CHAMBERS. INTEGRAL DRIVER AND HOLE COVER FOR POLE.  POLE SHALL	ELECTRICAL COMPONENTS ACCESSIBLE FROM BELOW. PROVIDE COMPLETE WITH ALL REQUIRED HARDWARE.  BFT, RECESSED LINER SLOT TYPE LED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS. AMARKOW CHRISTOD ALUMINUM 2.5" APERTURE, EXTRUDED ACTIVIC LENSE 0.7" THICK, UL AND RECESSED  RECESSED  MARROW 2.5" SUSPENDED DIRECT LED LUMINAIRE WITH THE FOLLOWING MINIMUM SPECIFICATIONS:  SUSPENDED ALUMINUM 2.5" APERTURE, EXTRUDED ACTIVIC LENSE 0.7" THICK, UL AND SPECIFICATIONS:  POWEDBY COATE DE XIRDED ALUMINUM HOUSING, STANLESS STEEL HOUSING HARDWARE, UV STANLIZED FOLKARIONATE IN ECTION MOLDED LENS WITH INTEGRAL SILICON GASKET. IPS6  RATED.  4FT, RECESSED LINER SLOT TYPE LED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS:  RARROW EXTRUDED ALUMINUM 2.5" APERTURE, EXTRUDED ACTIVIC LENSE, 0.7" THICK, UL AND RECESSED  SINGLE HEAD, POLE MOUNTED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS:  HOUSINGS SHALL BE DETRIBED ALUMINUM WITH THEMBALL VISIOLATED DRIVER AND OPTICAL CHAMBERS. INTEGRAL DRIVER AND HEAT SINK, EXTRUDED DRIN MARKHORITE HEATURE. OPTICS SHALL BE TYPE BED FOR A THICK SHALL BE STEAD BASE. ARE DESIGNED A THE ATTEMPT OF THE WITH FOR CACHEROPIC COMPLETE WITH CONCRETE BASE.  PROVIDED TAMPER RESISSANT HARD HOLE COVER FOR POLE.  POLE SHALL BE 20 FEET HIGH 8. COMPATIBLE WITH LIGHT FIXTURE. FINISH TO MARKHINE. OPTICAL CHAMBERS. INTEGRAL DRIVER AND DESTRIBUTION. UL LISTED OR WITH LOCATION (PG6  MINIMUM) THIS LED FIXTURES HALL BE DESIGNED A TESTED IN ACCORDANCE WITH HISMA LINES. OPTICAL CHAMBERS. INTEGRAL DRIVER AND DESTRIBUTION. UL LISTED OR WITH LOCATION (PG6  MINIMUM) THIS LED FIXTURES HALL BE DESIGNED A TESTED IN ACCORDANCE WITH HISMA LINES. OPTICS SHALL BE THE STANLE BE COMPATIBLE WITH LIGHT FIXTURE. FINISH TO MARKHINE. OPTICS SHALL BE THE STANLE BE COMPATIBLE WITH LIGHT FIXTURE. FINISH TO MARKHINE. OPTICS SHALL BE THE STANLE FOR THE STANLE WITH FOLLOWING MINIMUM SPECIFICATIONS:  HOUSING SHALL BE LEXTRIDED ALOW, ROUDE COMPLETE WITH CONCRETE BASE.  POLE MOUNTED  POLE MOUNTED  POLE MOUNTED  POLE MOUNTED  POLE MOUNTED  POLE MOUNTED  P	BELTERCAL COMPONENTS ACCESSIBLE FROM BELOW. PROVIDE COMPLETE WITH ALL REQUIRED AND WHAT  BET, RECESSED LINER S.CT TYPE LED LUMINARE WITH FOLLOWING MINIMUM SPECIFICATIONS.  ACRYLIC LENS WITH SATIN FINISH  ACRYLIC LENS WITH SATIN FINISH  RECESSED  ACRYLIC LENS WITH SATIN FINISH  CLEAR POLYCARROWATE  SURPACE  SURPACE  CHORN STRUCKED ALUMINUM FOLION, STANLESS STEEL HOUSING HARDWARE, LV SURPACE  SURPACE  SURPACE  CHORN STRUCKED ALUMINUM FOLION, STANLESS STEEL HOUSING HARDWARE, LV SURPACE  SURPACE  ACRYLIC LENS WITH SATIN FINISH  RECESSED  ACRYLIC LENS WITH SATIN FINISH  ACRYLIC LENS WITH SATIN FINISH  RECESSED  ACRYLIC LENS WITH SATIN FINISH  RECESSED  ACRYLIC LENS WITH SATIN FINISH  RECESSED  ACRYLIC LENS WITH SATIN FINISH  ACRYLIC LENS WITH SATIN FINISH  RECESSED  ACRYLIC LENS WITH SATIN FINISH  RECESSED  ACRYLIC LENS WITH SATIN FINISH  ACRYLIC LENS WITH SA	HER. MIGRAC CONFORMS A CONSTRUE. PROMISE OWN INFORMATION OF MAINTAINED PROMISE.  PERMONE STREET OF MAINTAINED LUMINARIE WITH FOLLOWING MINIMAM SPECIFICATIONS: ALL LISTED, DIVINAD DAMP CONDITIONS SUITELE.  PROSED ALEMENT OF MAINTAINED LUMINARIE WITH FOLLOWING MINIMAM SPECIFICATIONS: ALL LISTED, DIVINAD DAMP CONDITIONS SUITELE.  PROSED A CREATER STREET ON THE PROSED ALEMENT OF MAINTAINED PROFIT OF MAINTAINE	DECEMBER OF COMPRISED AND STATE OF THE STATE	RECENSED LEAD CONTROL ACCORDANCE AND ADMINISTRATION OF THE PROPERTY OF THE CONTROL AND ADMINISTRATION OF THE PROPERTY OF THE PROPERTY OF THE CONTROL AND ADMINISTRATION OF THE PROPERTY OF THE CONTROL AND ADMINISTRATION OF THE PROPERTY OF THE	LILLER DESCRIPTION ACCESS ALL PROCESS ALL PROPERTY PROCESS AND ACCESS ALL PROPERTY ACCESS ALL PROCESS ALL PROPERTY ACCESS ALL PROPERTY ACCESS ALL PROCESS ALL PROPERTY ACCESS ALL PROCESS ALL PROPERTY ACCESS ALL PROCESS ALL	ACCURATE DISPOSED BLOCK PROVIDED AND ADMINISTRY PROTECTION AND ADMINISTRY PROTECTION OF THE PROTECTION AND ADMINISTRY PR

F. ALL LED LUMINAIRES SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS.

G. CONTRACTOR SHALL VERIFY ALL MOUTING REQUIREMENTS OF EACH EXIT SIGN PRIOR TO ORDERING, AS WELL AS DIRECTIONAL REQUIREMENTS.

H. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING LUMINAIRE AND INSTALLATION REQUIREMENTS. PROVIDE ALL LISTED OPTIONS AND ACCESSORIES.

J. UNLESS OTHERWISE NOTED, ALL EMERGENCY BATTERY/DRIVERS SHALL BE WIRED FOR A SWITCHED CIRCUIT. REFER TO MANUFACTURER INSTRUCTIONS FOR WIRING INFORMATION

I. UNLESS OTHERWISE NOTED, REMOTE POWER SUPPLIES SHALL BE LOCATED IN NEARBY, DRY, VENTILATED LOCATION, MINIMIZE DISTANCE AND PROVIDE CONDUCTOR SIZE AS REQUIRED BY THE MANUFACTURER.



**UNION GROVE, WI 53182** 

UNION GROVE YORKVILLE FIRE STATION DESIGN DEVELOPMENT

Five Bugles
Design.

Mitchell Associates
Architects

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NO.	REVISIONS	DATI

LUMINAIRE

SCHEDULE

0 1" 2"

GENERIC SCALE BAR

SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING.
IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY

DATE 03/17/2025

SCALE AS NOTED

 DWN.
 MAP
 CHK.
 JFW

 PROJ. No.
 616501

 DWG. No.

		EQUIPMENT							DO1	<b>WER SUPPI</b>	V					CONTROL DEV	VICE	ς			
					POV	VER SUPPI	<u> </u>					CONTROL DE	VICL	<del>3</del>							
ITEM DESIGNATION	EQUIPMENT NAME	ROOM/LOCATION	НР	kW	AMPS	PHASE	VOLTAGE	SOURCE	CIRCUIT BREAKER	CONDUCTOR SIZE (AWG) COPPER	GROUND SIZE (AWG) COPPER	RACEWAY SIZE	DISCONNECT SWITC	Н	STARTER NEMA SIZE	ONNECT (CONTROL	PPLIDED BY O	(LINE VOLTAGE	VARIABLE FREQUENCY DRIVE (PROVIDED BY OTHERS)	DUCT DETECTOR WITH TEST STATION FIRE ALARM FAN SHUTDOWN	NOTES
													SWITCH AMPS FUSE AMPS	LOCATION		01   -				RETURN SUPPLY RETURN SUP	PLY
MAU-1A	MAKE UP AIR HANDLING UNIT	APPARATUS BAY			48.4	3	208	MSWBD	50A/3P	(3)#6	#10	1"									
MAU-1B	MAKE UP AIR HANDLING UNIT	APPARATUS BAY ROOF			69.3	3	208	MSWBD	90A/3P	(3)#2	#8	1-1/4"									
RTU-1	ROOFTOP UNIT	ROOF			62	3	208	MSWBD	80A/3P	(3)#2	#8	1-1/4"			~						
RTU-2	ROOFTOP UNIT	ROOF			57	3	208	MSWBD	80A/3P	(3)#2	#8	1-1/4"									
RTU-3	ROOFTOP UNIT	ROOF			103	3	208	MSWBD	125A/3P	(3)1/0	#6	2"									
EF-1	EXHAUST FAN	ROOF	1/10		1.9	1	120	LMP1	20A/1P	(2)#12	#12	3/4"									
EF-2	EXHAUST FAN	ROOF	1/4		7.2	1	120	LMP1	20A/1P	(2)#12	#12	3/4"									
EF-3	EXHAUST FAN	ROOF	3/4		13.8	1	120	LMP1	20A/1P	(2)#12	#12	3/4"									
EF-4	EXHAUST FAN	ROOF	3/4		13.8	1	120	LMP1	20A/1P	(2)#12	#12	3/4"									
EF-5	EXHAUST FAN	ROOF	1/4		7.2	1	120	LMP1	20A/1P	(2)#12	#12	3/4"			***************************************						поможения оператоком поможения помож
EF-6 EF-7	EXHAUST FAN EXHAUST FAN	ROOF ROOF	1.0 1/4		16.0 7.2	1	120 120	LMP1 LMP1	25A/1P 20A/1P	(2)#12 (2)#12	#12 #12	3/4"									
EF-8	EXHAUST FAN	ROOF	1/15		1.6	1	120	LMP1	20A/1P	(2)#12	#12	3/4"									
El 0	LAHAUSTTAN	i i i i i i i i i i i i i i i i i i i	1,13		1.0		120	LIVII I	207/11	(2)#12	112	3/4									
HWB-1	BOILER	202 - MECHANICAL			2.0	3	208	LMP1	20A/3P	(3)#12	#12	3/4"									
HWB-2	BOILER	202 - MECHANICAL			2.0	3	208	LMP1	20A/3P	(3)#12	#12	3/4"									
IACU-1	INDOOR AIR CONDITIONING UNIT	118 - IT			1.0	1	208		POW	ERED FROM ACCU	-1										
ACCU-1	AIR COOLED CONDENSING UNIT	ROOF			11.0	1	208	LMP1	30A/2P	(2)#10	#10	3/4"									
HWP-1	HOT WATER PUMP	202 - MECHANICAL	1.0			3	208	LMP1	15A/3P	(2)#12	#12	3/4"									
HWP-2	HOT WATER PUMP	202 - MECHANICAL	1.0			3	208	LMP1	15A/3P	(2)#12	#12	3/4"									
HWP-3	HOT WATER PUMP	202 - MECHANICAL	1.0			3	208	LMP1	15A/3P	(2)#12	#12	3/4"									
HWP-4	HOT WATER PUMP	202 - MECHANICAL	1.0			3	208	LMP1	15A/3P	(2)#12	#12	3/4"									
UH-1	UNIT HEATER	201 - MEZZANINE	1/30			1	120	LMP1	15A/1P	(2)#12	#12	3/4"									
UH-2	UNIT HEATER	201 - MEZZANINE	1/30			1	120	LMP1	15A/1P	(2)#12	#12	3/4"									
UH-3	UNIT HEATER	202 - MECHANICAL	1/30			1	120	LMP1	15A/1P	(2)#12	#12	3/4"									
UH-4	UNIT HEATER	WATER SERVICE				_				,=											
C-1	AIR COMPRESSOR	202 MECHANICAL	5.0			3	208	LMP1	35A/3P	(3)#10	#10	3/4"									
							And the second control of			and the state of t		to one on one of the final individual services			2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -						
HWRP-1	HOT WATER RETURN PUMP	202 MECHANICAL	1/12			1	120	LMP1	20A/1P	(2)#12	#12	3/4"			мет можеомизменномизменномизменном						
DHW-1	DOMESTIC WATER HEATER	202 MECHANICAL				1	120	LMP1	15A/1P	(2)#12	#12	3/4"									
			-						-			-									
CUH-1	CABINET UNIT HEATER	131 - VESTIBULE	1/5		_	1	120	LMP1	20A/1P	(2)#12	#12	3/4"							-		
CUH-2	CABINET UNIT HEATER	101 - VESTIBULE	1/5			1	120	LMP1	20A/1P	(2)#12	#12	3/4"	Oranous		<u> </u>						

## MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES 1. PROVIDE HACR TYPE CIRCUIT BREAKER FOR THIS EQUIPMENT.

- 2. EXISTING FIRE ALARM DUCT DETECTORS LOCATED DOWNSTREAM OF THE AIR HANDLING UNIT ARE TO REMAIN FOR REUSE.
- 3. REUSE EXISTING EMERGENCY POWER FEED FOR THE SMOKE PURGE SYSTEM. MAKE ALL REQUIRED ELECTRICAL TERMINATIONS FOR THE SMOKE PURGE SYSTEM.

		EQUIPMENT							POV	<b>WER SUPP</b>	LY		CONTRO	L DEVI	CES	
ROOM/ LOCATION	ITEM DESIGNATION	EQUIPMENT NAME	НР	kW	AMPS	PHASE	VOLTAGE	SOURCE	CIRCUIT BREAKER	CONDUCTOR SIZE (AWG) COPPER	GROUND SIZE (AWG) COPPER	RACEWAY SIZE	DISCONNECT SWITCH SWITCH AMPS FUSE AMPS L	OCATION	NEMA RECEPTACLE	NOTES
RM 103 - TRAINING ROOM	EQ.103.01	TV		1 120 REFER TO PWR & SYS PLANS		5-15R										
	EQ.108.01	MICROWAVE		1.6	14.5	1	120	LPP2	20A/1P	(2)#12	#12	3/4"			5-15R	5
	EQ.108.02	REFRIGERATOR				1	120	LPP2	20A/1P	(2)#12	#12	3/4"			5-15R	5
RM 108 - WORK AREA	EQ.108.03	COFFEE POT		2		1	120		REFER :	TO PWR & SYS PL	ANS				5-15R	
	EQ.108.04	OVER COUNTER PRINTER				1	120		REFER :	TO PWR & SYS PL	ANS				5-15R	
	EQ.108.05	RESPONSE MONITOR				1	120		REFER :	TO PWR & SYS PL	ANS				5-15R	
DAA440 FIDE CHIEF DOOM	EQ.110.01	TV				1	120		REFER T	TO PWR & SYS PL	ANS				5-15R	
RM 110 - FIRE CHIEF ROOM	EQ.110.02	RESPONSE MONITOR				1	120		REFER <sup>-</sup>	TO PWR & SYS PL	ANS				5-15R	
DAA444 ACCICTANT CHUEF DOOM	EQ.111.01	TV				1	120		REFER :	TO PWR & SYS PL	ANS				5-15R	
RM 111 - ASSISTANT CHIEF ROOM	EQ.111.02	RESPONSE MONITOR				1	120		REFER.	TO PWR & SYS PL	ANS				5-15R	
RM 112 - OPEN OFFICE/ BATTALION CHIEF	EQ.112.01	RESPONSE MONITOR				1	120		REFER.	TO PWR & SYS PL	ANS				5-15R	
RM 113 - CONFERENCE ROOM	EQ.113.01	TV				1	120		REFER .	TO PWR & SYS PL	ANS				5-15R	
	EQ.112.01	TV				1	120		REFER	TO PWR & SYS PL	ANS			64 (1994)   1994   1994   1994   1994   1994   1994   1994   1994   1994   1994   1994   1994   1994   1994	5-15R	
RM 114 - WATCHROOM	EQ.112.02	FLOOR LAZER JET PRINTER				1	120		REFER :	TO PWR & SYS PL	ANS				5-15R	
	EQ.112.03	RESPONSE MONITOR				1	120		REFER .	TO PWR & SYS PL	ANS				5-15R	
RM 120 - DAY ROOM	EQ.120.01	TV				1	120		REFER	TO PWR & SYS PL	ANS				5-15R	
	EQ.121.01	REFRIDGERATOR/FREEZER				1	120	LPP1	20A/1P	(2)#12	#12	3/4"			5-15R	
	EQ.121.02	RANGE				1	120	LPP1	20A/1P	(2)#12	#12	3/4"			5-15R	
RM 121 - KITCHEN	EQ.121.03	RANGE HOOD				1	120	LPP1	20A/1P	(2)#12	#12	3/4"			5-15R	
	EQ.121.04	MICROWAVE		1.6	14.5	1	120	LPP1	20A/1P	(2)#12	#12	3/4"			5-15R	
	EQ.121.05	DISHWASHER		1.4	12	1	120	LPP1	20A/1P	(2)#12	#12	3/4"			5-15R	
RM 134 - RESIDENTIAL LAUNDRY	EQ.134.01	RESIDENTIAL WASHER													5-15R	
MINI 194 - NESIDEN HAL LAUNDAT	EQ.134.02	RESIDENTIAL DRYER													5-15R	
RM 139 - GEAR LAUNDRY	EQ.139.01	EXTRACTOR				1	208	LPP2	25A/1P	(2)#10	#12	3/4"			5-15R	
MINI 133 - GEAN LAUNDINT	EQ.139.02	GEAR CABINET			25.0	3	208	LPP2	40A/3P	(3)#10	#10	1"			5-15R	
RM 142 - SCBA CLEAN & FILL	EQ.142.01	SCBA FILL STATION				1	120	LPP2	20A/1P	(2)#12	#12	3/4"			5-15R	
MIVI 142 - SCOA CLEAIN & FILL	EQ.142.02	SCBA EXTRACTOR	10.0		31.0	3	208	LPP2	40A/3P	(3)#10	#10	1"			15-50P	
RM 144 - APPARATUS BAY	EQ.144.01	RESPONSE MONITOR				1	120		REFER :	TO PWR & SYS PL	ANS		and the second s		5-15R	

### **EQUIPMENT CONNECTION SCHEDULE NOTES**

- 1. RECEPTACLE SHALL BE INSTALLED AT 48" AFF
- 2. RECEPTACLE SHALL BE INSTALLED AT 18" AFF
- 3. ELECTRICAL CONNECTION SHALL BE INSTALLED AT 2'-0" AFF
- 4. FIELD VERIFY VOLTAGE AND AMPERAGE REQUIREMENTS BEFORE PURCHASING INSTALLATION HARDWARE. PROVIDE ALL REQUIRED WIRING FOR EQUIPMENT.
  5. PROVIDE GFCI TYPE BREAKER FOR CIRCUIT
- PROVIDE (2) RECEPTACLES FOR THIS EQUIPMENT, RECEPTACLES SHALL BE INSTALLED AT 18" AFF
   RECEPTACLE SHALL BE INSTALLED AT 12" ABOVE THE COUNTER HEIGHT



UNION GROVE, WI 53182

UNION GROVE YORKVILLE FIRE STATION
DESIGN DEVELOPMENT

Wendel

Five Bugles

Phitchell Associates

Architects

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p:716.688.0766 tf:877.293.6335

Wendel WD Architecture, Engineering, Surveying and Landscape Architecture, P.C

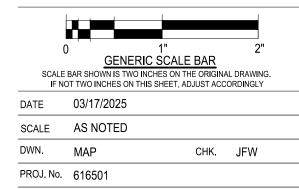


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NO.	REVISIONS	DATI

MECHANICAL EQUIPMENT CONNECTION SCHEDULE



		Ρ/	ANEI	LB	ΟΑ	R D	SC	HE	E D	ULE		
PAN	IELBOARD			VOLTS:	208	Y/120	3Ø	4-WIRE			BATCHANI	C A I
MS	SWBD		BUS CA	APACITY: MCB:	1000	Α		42kA SURFACI	E		MECHANI 202	CAL
	NAME			MLO:	1000	Α	ENCL:	NEMA 1			LOCATI	ON
No.	BKR	DESCRIPTION	TYPE	LOAD	L1	L2	L3	LOAD	TYPE	DESCRIPTION	BKR	No.
1			PWR	11300	20664			9364	PWR			2
3	225A/3P	PANELBOARD <u>LPP1</u>	PWR	10500		18766		8266	PWR	PANELBOARD <u>LMP1</u>	225A/3P	4
5			PWR	8640			17688	9048	PWR			6
7			PWR	11643	11643							8
9	225A/3P	PANELBOARD <u>LPP2</u>	PWR	8883		8883				PANELBOARD <u>LMP2</u>	225A/3P	10
11			PWR	10543			10543					12
13					0							14
15	225A/3P	PANELBOARD <u>LPP3</u>				0				PANELBOARD <u>LIT1</u>	100A/3P	16
17							0					18
19			LTG	4438	11884.4			7446	HVAC			20
21	225A/3P	PANELBOARD <u>LLP1</u>	LTG	3410		10856		7446	HVAC		80A/3P	22
23			LTG	3100			10546	7446	HVAC			24
25			HVAC	5813	12659			6846	HVAC			26
27	50A/3P	MAU-1A	HVAC	5813		12659		6846		RTU-2	80A/3P	28
29			HVAC	5813			12659	6846	HVAC			30
31	004/05	NAALLAB	HVAC	8323	20693	00005		12370	HVAC		4054 (00	32
33	90A/3P	<u>MAU-1B</u>	HVAC	8323		20693	00000	12370		RTU-3	125A/3P	34
35			HVAC	8323			20693	12370	HVAC			36
37					0					CDA DE	1004 (25	38
39						0				SPARE	100A/3P	40
41							0					42

		P #	NEI	LBO	A C	RD	SC	HE	E D	ULE		
PAN	ELBOARD			VOLTS:	208	Y/120	3Ø	4-WIRE				
	PP1		BUS CA	APACITY:	225	Α	AIC:	42kA			HALL 1	41
L				MCB:			MTG:	SURFACI	<b>=</b>			
1	VAME			MLO:	225	Α	ENCL:	NEMA 1			LOCATI	ON
No.	BKR	DESCRIPTION	TYPE	LOAD	L1	L2	L3	LOAD	TYPE	DESCRIPTION	BKR	No
1	20A/1P	RECEPTA CLES - RM 102, 102A	REC	900	1800			900	REC	RECEPTA CLES - RM 121	20A/1P	2
3	20A/1P	RECEPTA CLES - RM 102A	REC	180		1780		1600	КП	EQ.121.04	20A/1P	4
5	20A/1P	RECEPTA CLES - RM 105, 106	REC	540			720	180	REC	EQ.121.01 (GFCI BREAKER)	20A/1P	6
7	20A/1P	RECEPTA CLES - RM 109	REC	1080	1260			180	REC	EQ.121.01 (GFCI BREAKER)	20A/1P	8
9	20A/1P	RECEPTA CLES - RM 110	REC	900		1080		180	REC	EQ.121.01 (GFCI BREAKER)	20A/1P	10
11	20A/1P	RECEPTA CLES - RM 110, 111	REC	720			1260	540	REC	RECEPTA CLES - RM 121, 122	20A/1P	12
13	20A/1P	RECEPTA CLES - RM 111	REC	900	1620			720	REC	RECEPTA CLES - RM 124	20A/1P	14
15	20A/1P	RECEPTA CLES - RM 112	REC	1080		1800		720	REC	RECEPTA CLES - RM 125	20A/1P	16
17	20A/1P	RECEPTA CLES - RM 112	REC	1080			1800	720	REC	RECEPTA CLES - RM 126	20A/1P	18
19	20A/1P	RECEPTA CLES - RM 114	REC	1080	1800			720	REC	RECEPTA CLES - RM 127	20A/1P	20
21	20A/1P	RECEPTA CLES - RM 114	REC	1080		1800		720	REC	RECEPTA CLES - RM 128	20A/1P	22
23	20A/1P	RECEPTA CLES - RM 103	REC	900			1620	720	REC	RECEPTA CLES - RM 129	20A/1P	24
25	20A/1P	RECEPTA CLES - RM 103	REC	1080	1800			720	REC	RECEPTA CLES - RM 130	20A/1P	26
27	20A/1P	RECEPTA CLES - RM 103	REC	1080		1260		180	КП	EQ.121.02	20A/1P	28
29	20A/1P	RECEPTA CLES - RM 103	REC	1080			1260	180	КП	EQ.121.03	20A/1P	30
31	20A/1P	RECEPTA CLES - RM 103	REC	1080	2480			1400	КП	EQ.121.05	20A/1P	32
33	20A/1P	RECEPTA CLES - RM 103	REC	1080		1880		800	PWR	BACK LIT GARAGE SIGN	20A/1P	34
35	20A/1P	RECEPTA CLES - RM 103	REC	1080			1080			SPARE	20A/1P	36
37	20A/1P	RECEPTA CLES - RM 118	REC	540	540					SPARE	20A/1P	38
39	20A/1P	RECEPTA CLES - RM 119, 120	REC	1080		1080				SPARE	20A/1P	40
41	20A/1P	RECEPTA CELS - RM 120	REC	1080			1080			SPARE	20A/1P	42

		P	ANEI	LB	O A	R D	SC	HE	E D	ULE		
PAN	ELBOARD			VOLTS:	208	Y/120	3Ø	4-WIRE			MECHANI	
ı	MP1		BUS CA	APACITY:	225	Α		42kA	_		202	
		-		MCB:				SURFACI	E			
	NAME			MLO:	225		ENCL:	NEM A 1			LOCATI	ION
No.	BKR	DESCRIPTION	TYPE	LOAD	L1	L2	L3	LOAD	TYPE	DESCRIPTION	BKR	No
1			PWR	577	805			228	PWR	EF-1	20A/1P	2
3	15A/3P	HWP-1	PWR	577		1441		864	PWR	EF-2	20A/1P	4
5			PWR	577			2233	1656	PWR	EF-3	20A/1P	6
7			PWR	577	2233			1656	PWR	EF-4	20A/1P	8
9	15A/3P	HWP-2	PWR	577		1441		864	PWR	<b>⊞</b> -5	20A/1P	10
11			PWR	577			2497	1920	PWR	EF-6	25A/1P	12
13			PWR	577	1441			864	PWR	EF-7	20A/1P	14
15	15A/3P	HWP-3	PWR	577		769		192	PWR	EF-8	20A/1P	16
17			PWR	577			677	100	HTG	UH-1	15A/1P	18
19			PWR	577	677			100	HTG	UH-2	15A/1P	20
21	15A/3P	HWP-4	PWR	577		677		100	HTG	UH-3	20A/1P	22
23			PWR	577			1057	480	HTG	CUH-1	20A/1P	24
25			PWR	241	721	1		480	HTG	CUH-2	20A/1P	26
27	15A/3P	HWB-1	PWR	241		451	1	210	PWR	HWRP-1	20A/1P	28
29			PWR	241			241		PWR	DHW-1	20A/1P	30
31			PWR	241	1385			1144	HVAC			32
33	15A/3P	HWB-1	PWR	241		1385		1144	HVAC	ACCU-1	30A/2P	34
35			PWR	241			241			SPARE	20A/1P	36
37			PWR	2102	2102				†	SPARE	20A/1P	38
39	35A/3P	C-1	PWR	2102		2102				SPARE	20A/1P	40
41			PWR	2102			2102			SPARE	20A/1P	42

		PA	NE	L B	UA	<u>א</u> ט	SC	H	<u> </u>	ULE		
PAN	ELBOARD			VOLTS:	208	Y/120	3Ø	4-WIRE				
	PP2		BUS CA	APACITY:	225	Α	AIC:	42kA			HALL 1	41
L	F F Z			MCB:			MTG:	SURFAC	E			
I	NAME			MLO:	225	Α	ENCL:	NEMA 1			LOCATI	ION
No.	BKR	DESCRIPTION	TYPE	LOAD	L1	L2	L3	LOAD	TYPE	DESCRIPTION	BKR	N
1	20A/1P	RECEPTA CLES - RM 145, 146	REC	720	1440			720	REC	RECEPTA CLES - RM 108	20A/1P	2
3	20A/1P	RECEPTA CLES - RM 144	REC	540		660		120	REC	EQ.108.04	20A/1P	7
5	20A/1P	RECEPTA CLES - RM 144	REC	900			2500	1600	REC	EQ.108.01	20A/1P	1
7	20A/1P	RECEPTA CLES - RM 144	REC	900	1080			180	REC	EQ.108.02 (GFCI BREAKER)	20A/1P	8
9	20A/1P	RECEPTA CLES - RM 144	REC	720		1440		720	REC	RECEPTA CLES - RM 123, 131	20A/1P	1
11	20A/1P	RECEPTA CLES - RM 144	REC	720			1080	360	REC	RECEPTA CLES - RM 132	20A/1P	1
13	20A/1P	RECEPTA CLES - RM 144	REC	900	1980			1080	REC	RECEPTA CLES - 201	20A/1P	1.
15	20A/1P	RECEPTA CLES - RM 143	REC	540		1080		540	REC	RECEPTA CLES - 202	20A/1P	1
17	20A/1P	RECEPTA CLES - RM 138	REC	180			720	540	REC	RECEPTA CLES - 203	20A/1P	1
19	20A/1P	RECEPTA CLES - RM 138	REC	1080	1080				PWR	EQ.139.01	20A/1P	2
21	20A/1P	RECEPTA CLES - RM 142	REC	360		360			PWR	EQ.139.01	20A/1P	2
23	20A/1P	RECEPTA CELS - RM 139	REC	540			540		PWR	EQ.142.01	20A/1P	2
25	20A/1P	RECEPTA CLES - RM 140	REC	1080	1980			900	REC	RECEPTA CLES - EXTERIOR	20A/1P	2
27	20A/1P	RECEPTA CLES - RM 140	REC	1080		4083		3003	PWR			2
29	20A/1P	RECEPTA CLES - RM 133, 134	REC	360			3363	3003	PWR	EQ.139.02	40A/3P	3
31	20A/1P	RECEPTA CELS - RM 135, 136, 137	REC	540	3543			3003	PWR			3
33	20A/1P	RECEPTA CLES - RM 117	REC	540		4263		3723	PWR			3
35	20A/1P	RECEPTA CLES - RM 116	REC	540			4263	3723	PWR	EQ.142.02	40A/3P	3
37	20A/1P	RECEPTA CLES - RM 113	REC	720	4443			3723	PWR			[3
39	20A/1P	RECEPTA CLES - RM 113	REC	720		720				SPARE	20A/1P	7
41	20A/1P	RECEPTA CLES - RM 115	REC	900			900			SPARE	20A/1P	12

PA N	ELBOARD			VOLTS:	208	Y/120	30	4-WIRE				
_			BUS CA	APACITY:				42kA			MECHANI	
L	LP1			MCB:			MTG:	SURFACI	E		202	
	NAME			MLO:	225	Α	ENCL:	NEMA 1			LOCATI	ION
No.	BKR	DESCRIPTION	TYPE	LOAD	L1	L2	L3	LOAD	TYPE	DESCRIPTION	BKR	No
1	20A/1P	LIGHTING - EXTERIOR	LTG	683	1120			437	LTG	LIGHTING - RM 144	20A/1P	2
3	20A/1P	LIGHTING - RM 101, 102, 102A	LTG	516		953	1	437	LTG	LIGHTING - RM 144	20A/1P	4
5	20A/1P	LIGHTING - RM 109, 110, 111, 112, 114	LTG	639			858	219	LTG	LIGHTING - RM 144	20A/1P	6
7	20A/1P	LIGHTING - RM 108, 115	LTG	412	606.4			194.4	LTG	LIGHTNG - TOWER ROOF	20A/1P	8
9	20A/1P	LIGHTING - RM 113	LTG	255		519		264	LTG	LIGHTING - SITE	20A/1P	10
11	20A/1P	LIGHTING - RM 116, 138, 143	LTG	488			686	198	LTG	LIGHTING - SITE	20A/1P	12
13	20A/1P	LIGHTING - RM 139, 140, 141, 142	LTG	460	592			132	LTG	LIGHTING - SITE	20A/1P	14
15	20A/1P	LIGHTING - RM 117, 133, 134, 135, 136, 137	LTG	290		290				SPARE	20A/1P	16
17	20A/1P	LIGHTNG - RM 105, 106, 107, 104, 118, 119	LTG	333			333			SPARE	20A/1P	18
19	20A/1P	LIGHTING - RM 103	LTG	569	569					SPARE	20A/1P	20
21	20A/1P	LIGHTING - RM 120, 121, 122	LTG	559		559				SPARE	20A/1P	22
23	20A/1P	LIGHTING - RM 123	LTG	195			195			SPARE	20A/1P	24
25	20A/1P	LTG - RM 124, 125, 126, 137, 128, 129, 130	LTG	555	555					SPARE	20A/1P	26
27	20A/1P	LIGHTING - RM 145, 146	LTG	352		352				SPARE	20A/1P	28
29	20A/1P	LIGHTING - RM 132	LTG	90			90			SPARE	20A/1P	30
31	20A/1P	LIGHTING - RM 201, 202	LTG	559	559					SPARE	20A/1P	32
33	20A/1P	LIGHTING - RM 203	LTG	300		300				SPARE	20A/1P	34
35	20A/1P	LIGHTING - RM 144	LTG	501			501			SPARE	20A/1P	36
37	20A/1P	LIGHTING - RM 144	LTG	437	437					SPARE	20A/1P	38
39	20A/1P	LIGHTING - RM 144	LTG	437		437				SPARE	20A/1P	40
41	20A/1P	LIGHTING - RM 144	LTG	437			437			SPARE	20A/1P	42

		Р	ANE	ANELBOARD				HE	. E			
PANELBOARD  LMP2  NAME				VOLTS:	208	208 Y/120		4-WIRE			MECHANI	CAL
			BUS CAPACITY: MCB:		<b>225</b> A		AIC: <b>42kA</b> MTG: <b>SURFACE</b>		E		202	ICAL
			MLO:		<b>225</b> A		ENCL: NEM A 1				LOCATION	OCATION
No.	BKR	DESCRIPTION	TYPE	LOAD	L1	L2	L3	LOAD	TYPE	DESCRIPTION	BKR	No.
1					0							2
3						0						4
5							0					6
7					0							8
9						0						10
11							0					12
13					0							14
15						0						16
17							0					18
19					0							20
21						0						22
23							0					24
25					0							26
27						0						28
29							0					30
31					0							32
33						0						34
35							0					36
37	20A/1P	SPARE			0					SPARE	20A/1P	38
39	20A/1P	SPARE				0				SPARE	20A/1P	40
41	20A/1P	SPARE					0			SPARE	20A/1P	42

		P	4 N E I	LBO	A C	RD	SCHEDULE					
PANELBOARD			VOLTS:	208	208 Y/120		4-WIRE					
LPP3		BUS CAPACITY: MCB:		<b>225</b> A		AIC: 42kA MTG: SURFACE				HALL 141		
			MLO:		<b>225</b> A		ENCL: <b>NEM A 1</b>				LOCATION	
No.	BKR	DESCRIPTION	TYPE	LOAD	L1	L2	L3	LOAD	TYPE	DESCRIPTION	BKR	No.
1					0							2
3						0						4
5							0					6
7					0							8
9						0						10
11							0					12
13					0							14
15						0						16
17							0					18
19					0							20
21						0						22
23							0					24
25					0							26
27						0						28
29							0					30
31					0							32
33						0	_					34
35							0					36
37	20A/1P	SPARE			0					SPARE	20A/1P	38
39	20A/1P	SPARE				0				SPARE	20A/1P	40
41	20A/1P	SPARE					0			SPARE	20A/1P	42

		P	ANELBOARD					SCHEDULE				
PANELBOARD LIT1 NAME			VOLTS:		208	Y/120	3Ø	4-WIRE				
			BUS CA	APACITY:	100	<b>100</b> A		42kA				
			MCB:				MTG:	SURFACI	E			
		MLO:		<b>100</b> A		ENCL:	NEMA 1					
No.	BKR	DESCRIPTION	TYPE	LOAD	L1	L2	L3	LOAD	TYPE	DESCRIPTION		
1					0							
3						0						
5							0					
7					0							
9						0						
11							0					
13					0							
15						0						
17							0					
19					0							
21						0						
23							0					
25					0							
27						0						
29							0					
31					0							
33						0						
35							0					
37	20A/1P	SPARE			0					SPARE		
39	20A/1P	SPARE				0				SPARE		
41	20A/1P	SPARE					0			SPARE		



**UNION GROVE, WI 53182** 

UNION GROVE YORKVILLE FIRE STATION
DESIGN DEVELOPMENT

Five Bugles

Besign

Mitchell Associates

Architects

204 E. Grand Avenue, Suite 200

Eau Claire, WI 54701

www.wendelcompanies.com
p:716.688.0766 tf:877.293.6335

Wendel WD Architecture, Engineering, Surveying and Landscape Architecture, P.C



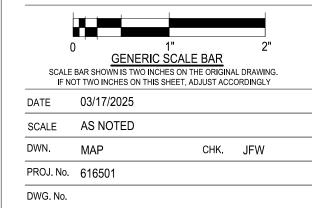
IT 118

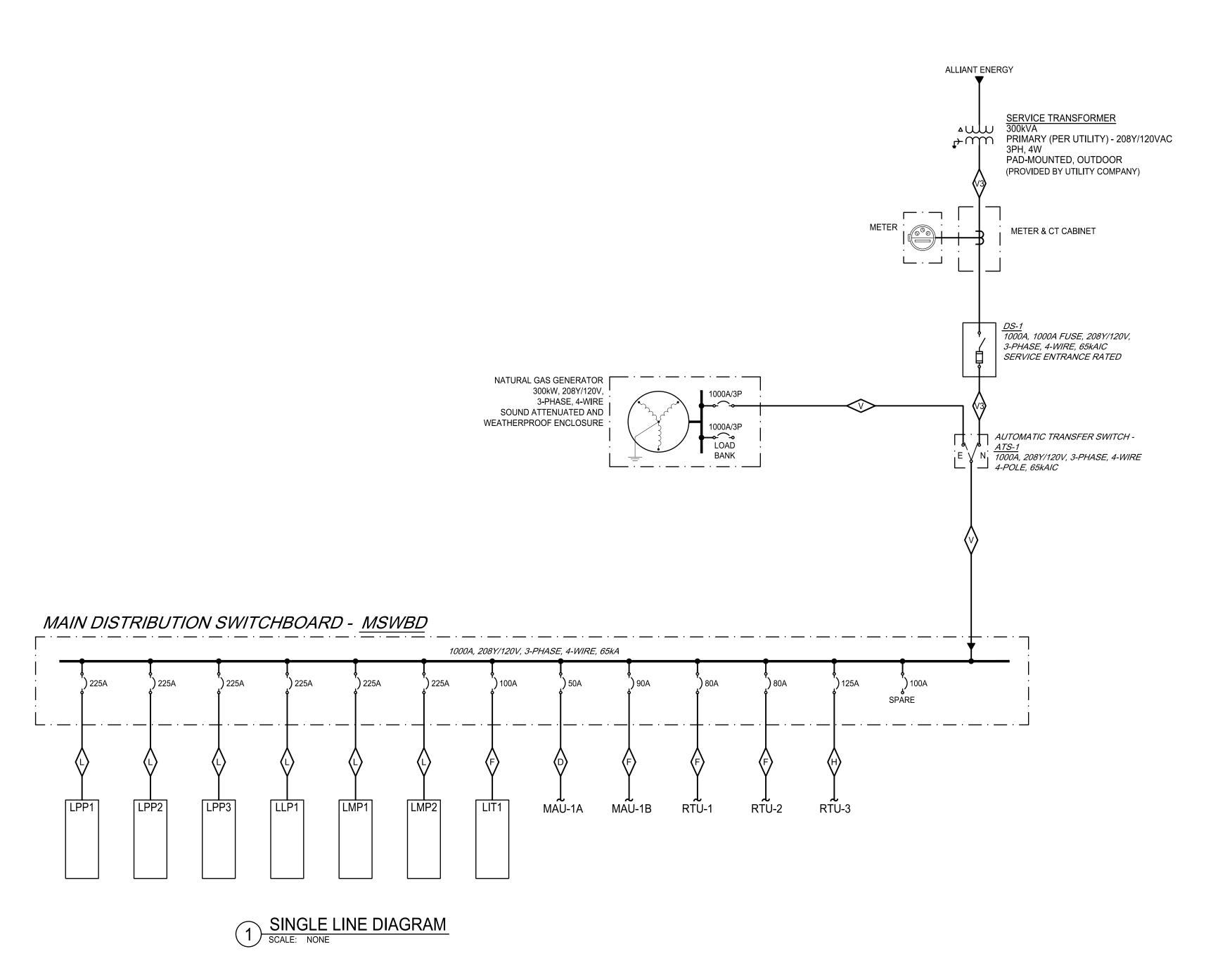
LOCATION BKR No.

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NO.	REVISIONS	DATE

PANELBOARD SCHEDULES





						ZE SCH OPPER)	EDULE	•			
OVER- CURRENT DEVICE	RRENT OR KCMIL			EDERS WITH NT GROUND	11	EDERS WITH NT GROUND	4-WIRE SE SYSTEM F ELECTR		4-WIRE FEEDERS W EQUIPMENT GROUN (UTILITY SECONDAR		
RATING	PHASE & NEUTRAL	GND.	#>	CONDUIT SIZE	#>	CONDUIT SIZE	#>	GEC	CONDUIT SIZE	#	COND
20	12	12	Α	3/4"	A1	3/4"	A2	8	3/4"	A3	3/4"
30	10	10	В	3/4"	B1	3/4"	B2	8	3/4"	В3	3/4"
40	8	10	С	3/4"	C1	3/4"	C2	8	3/4"	C3	3/4"
60	6	10	D	1"	D1	1"	D2	8	1"	D3	1"
70	4	10	Е	1-1/4"	E1	1-1/4"	E2	8	1-1/4"	E3	1 1/4
100	2	8	F	1-1/4"	F1	1-1/4"	F2	8	1-1/4"	F3	1 1/4
110	1	6	G	1-1/2"	G1	1-1/2"	G2	6	1-1/2"	G3	1 1/2
125	1/0	6	Н	2"	H1	2"	H2	6	2"	H3	2"
150	1/0	6	I	2"	<b>I</b> 1	2"	<b>I</b> 2	6	2"	<b>I</b> 3	2"
175	2/0	2/0	J	2"	J1	2"	J2	4	2"	J3	2"
200	3/0	6	К	2"	K1	2"	K2	4	2"	K3	2"
225	4/0	4	L	2-1/2"	L1	2-1/2"	L2	2	2-1/2"	L3	2 1/2
250	250	4	М	2-1/2"	M1	2-1/2"	M2	2	2-1/2"	М3	2 1/2
300	350	4	N	3"	N1	3"	N2	2	3"	N3	3"
350	500	2	0	3"	O1	3"	O2	2	3"	O3	3"
400	600	2	Р	4"	P1	3"	P2	1/0	3"	P3	3"
450	(2) 4/0	2	Q	(2) 2-1/2"	Q1	(2) 2-1/2"	Q2	1/0	(2) 2-1/2"	Q3	(2) 2-
500	(2) 250	2	R	(2) 2-1/2"	R1	(2) 2-1/2"	R2	1/0	(2) 2-1/2"	R3	(2) 2-
600	(2) 350	1	S	(2) 4"	S1	(2) 4"	S2	3/0	(2) 4"	S3	(2)
700	(2) 500	1/0	Т	(2) 4"	T1	(2) 4"	T2	3/0	(2) 4"	Т3	(2)
800	(2) 600	1/0	U	(2) 4"	U1	(2) 4"	U2	3/0	(2) 4"	U3	(2)
1000	(3) 500	2/0	V	(3) 4"	V1	(3) 4"	V2	3/0	(3) 4"	V3	(3)
1200	(3) 600	3/0	W	(3) 4"	W1	(3) 4"	W2	3/0	(3) 4"	W3	(3)
1600	(4) 600	4/0	Х	(4) 4"	X1	(4) 4"	X2	3/0	(4) 4"	X3	(4)
2000	(5) 600	250	Υ	(5) 4"	Y1	(5) 4"	Y2	3/0	(5) 4"	Y3	(5)
2500	(6) 600	350	Z	(6) 4"	Z1	(6) 4"	Z2	3/0	(6) 4"	Z3	(6)
3000	(8) 500	500	AA	(8) 4"	AA1	(8) 4"	AA2	3/0	(8) 4"	AA3	(8)
4000	(10) 600	500	BB	(10) 4"	BB1	(10) 4"	BB2	3/0	(10) 4"	BB3	(10)
5000	(12) 600	2-500	CC	(12) 4"	CC1	(12) 4"	CC2	3/0	(12) 4"	CC3	(12)
6000	(16) 500	2-500	DD	(16) 4"	DD1	(16) 4"	DD2	3/0	(16) 4"	DD3	(16)



**UNION GROVE, WI 53182** 

UNION GROVE YORKVILLE FIRE STATION DESIGN DEVELOPMENT

> 204 E. Grand Avenue, Suite 200 Eau Claire, WI 54701 www.wendelcompanies.com p:716.688.0766 tf:877.293.6335

Wendel WD Architecture, Engineering, Surveying and Landscape Architecture, P.C

**PROGRESS** 

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NO.	REVISIONS	DATE

SINGLE LINE DIAGRAM

GENERIC SCALE BAR

SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING.
IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY

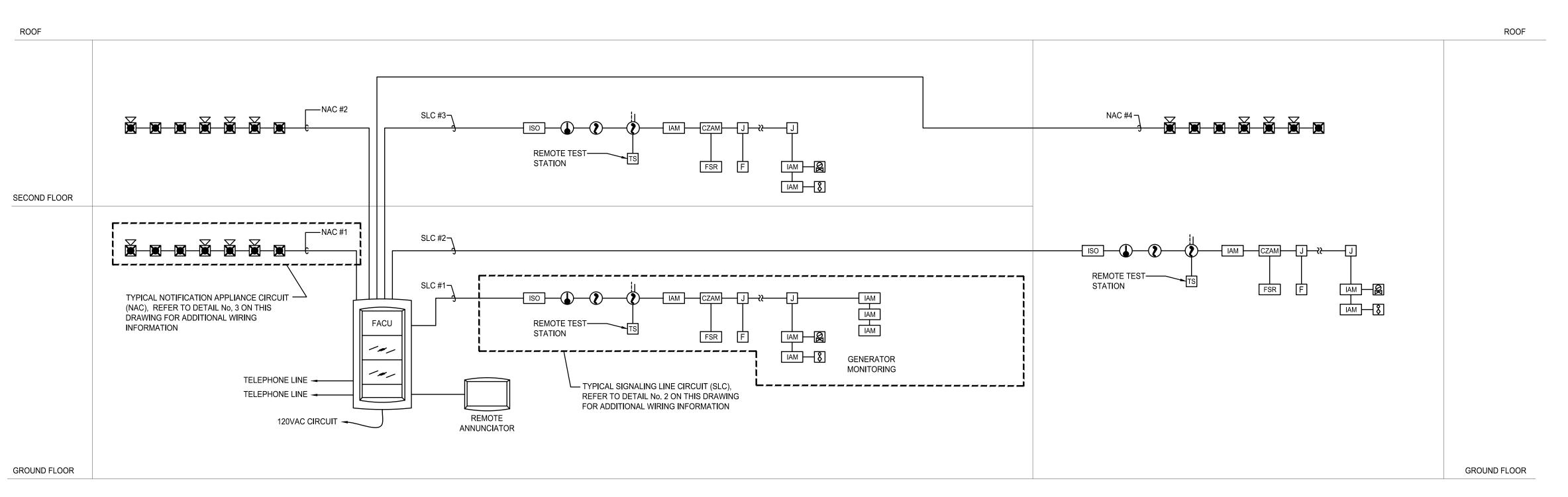
DATE 03/17/2025

SCALE AS NOTED

PROJ. No. 616501

E601

CHK. JFW



SIGNALING LINE CIRCUIT FROM FACU 1 FIRE ALARM RISER DIAGRAM SCALE: NONE

### CONSTRUCTION NOTES:

- A. DEVICES INDICATED ARE SHOWN FOR CIRCUITING INTENT ONLY, & SHALL NOT BE CONSIDERED AS ABSOLUTE QUANTITIES, TYPES, LOCATIONS ETC.
- B. PROVIDE, AT THE END OF ALL 24V SYSTEM POWER CIRCUIT(S), AN END-OF-LINE RELAY, CONNECTED TO AN IAM, SUPERVISE & MONITOR LOSS OF SYSTEM POWER.
- C. INSTALL SMOKE DETECTOR(S) A MINIMUM OF 3'-0" AWAY FROM AIR SUPPLY OR RETURN REGISTERS & DIFFUSERS.
- D. DEVICE TERMINAL NUMBERS & CONFIGURATION DIFFER FROM MFGR. TO MFGR.
  TERMINAL DEVICE NUMBERS & DEVICE CONFIGURATIONS INDICATED ARE FOR GENERAL
  CONCEPT ONLY, & SHALL BE VERIFIED WITH THE ACTUAL MFGR. SELECTED FOR THE
- E. PROVIDE ISOLATOR MODULES ON ALL SLC CIRCUITS AT EVERY 25TH DEVICE.

### 

- 1. "T" TAPPING OF THE SYSTEM POWER CIRCUIT, IS NOT PERMITTED.
- 2. WIRING BETWEEN CONTROL TYPE ZONE ADDRESSABLE MODULES (CZAM) & ELEVATOR CONTROLLERS SHALL BE THROUGH NORMALLY CLOSED DRY CONTACT CLOSURES IN THE MODULE (UN-POWERED).
- REFER TO FIRE ALARM RISER (THIS DRAWING) FOR HORN/STROBE NAC CIRCUIT ASSIGNMENTS.
- 4. STROBE LIGHTS SHALL BE WIRED SO AS TO ALLOW STROBES TO REMAIN FLASHING, UPON SILENCING OF THE AUDIBLE ALARM NOTIFICATION APPLIANCES.
- 5. "T" TAPPING OF THE AUDIBLE OR VISUAL ALARM NOTIFICATION CIRCUIT WIRING, IS NOT PERMITTED.
- 6. A SYSTEM POWER 24VDC SUPERVISED CIRCUIT SHALL BE INSTALLED ALONG WITH THE ENTIRE SLC PATH, FROM THE FIRST ALARM INITIATING DEVICE IN THE CIRCUIT, TO THE LAST ALARM INITIATING DEVICE IN THE CIRCUIT. SINGLE DEVICE TAKE-OFFS FROM THE

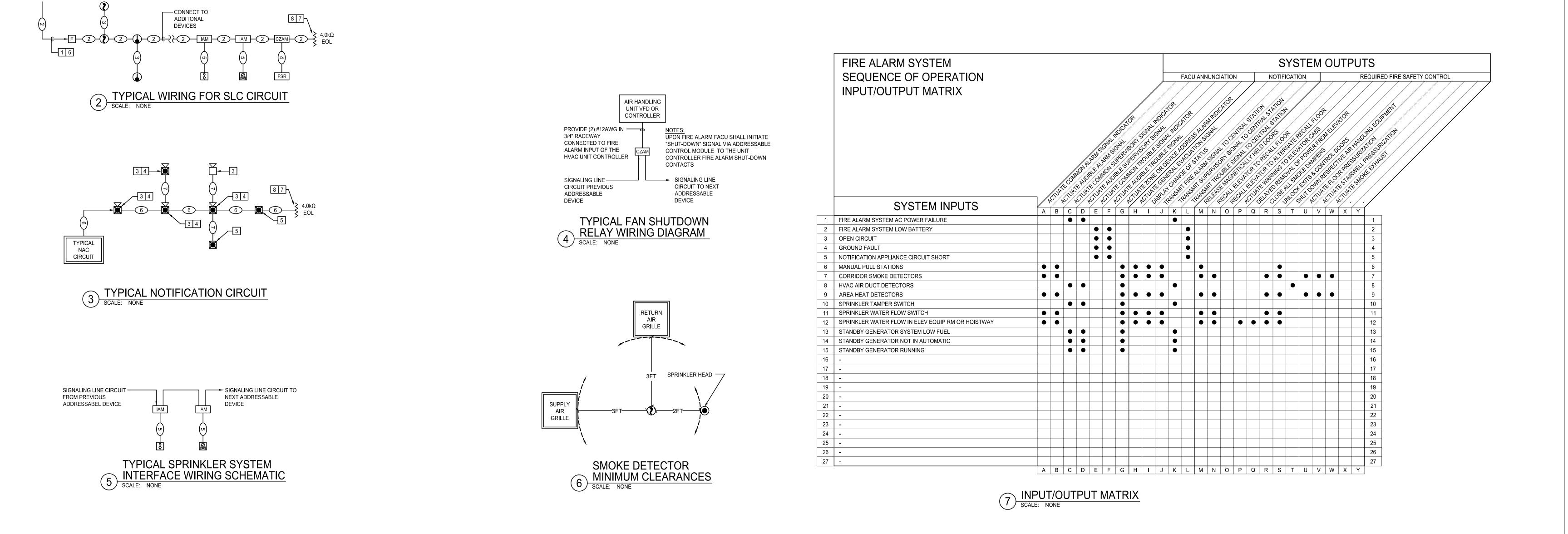
MAIN PATH SHALL NOT BE REQUIRED TO CARRY THE SYSTEM POWER CIRCUIT.

- 7. PROVIDE, AT THE END OF ALL SYSTEM POWER CIRCUITS, AN END-OF-LINE RELAY & AN INDIVIDUAL ADDRESSABLE POINT MODULE (IAM), CONNECTED TO SUPERVISE & MONITOR LOSS OF SYSTEM POWER.
- 8. INSTALL AFTER LAST ALARM INITIATING DEVICE IN THE CIRCUIT.
- 9. PROVIDE INTERFACE BETWEEN CONVENTIONAL TYPE HEAT DETECTORS & ADDRESSABLE FIRE ALARM SYSTEM.

### # FIRE ALARM SYSTEM WIRING NOTES:

- 1. (2) #14 AWG IN 3/4" RACEWAY
- 2. (1) SIGNALING LINE CIRCUIT CABLE (2) #18 AWG
- 3. (2) SIGNALING LINE CIRCUIT CABLES (1 IN & 1 OUT) (2) #18 AWG & (2) #18 AWG
- 4. (1) SYSTEM POWER CIRCUIT CABLE (24VDC) (2) #14 AWG
- 5. (1) NON DATA CONDUCTORS (2) #14 AWG IN FLEXIBLE METAL RACEWAY.
- 6. (1) NOTIFICATION APPLIANCE CIRCUIT CABLE (2) #14 AWG
- 7. (2) NOTIFICATION APPLIANCE CIRCUIT CABLES (1 IN & 1 OUT) (2) #14 AWG & (2) #14 AWG

\* ALL WIRING REQUIREMENTS ARE TO BE VERIFIED WITH SELECTED FIRE ALARM SYSTEM PROVIDER. ADDITIONAL COMPENSATION WILL NOT BE PROVIDED FOR FAILURE TO PROVIDE WIRING PER EQUIPMENT MANUFACTURER'S REQUIREMENTS.





**UNION GROVE, WI 53182** 

# UNION GROVE YORKVILLE FIRE STATION DESIGN DEVELOPMENT

Five Bugles

Five Bugles

Five Bugles

Five Bugles

Architects

204 E. Grand Avenue, Suite 200

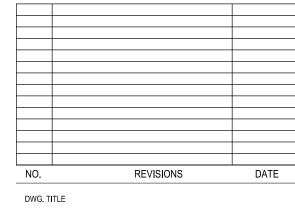
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FIRE ALARM RISER, DETAILS & NOTES

O 1" 2"

GENERIC SCALE BAR

SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING.
IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY

DATE 03/17/2025

SCALE AS NOTED

DWN. MAP CHK. JFW

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