

9 - ELECTRICAL INDEX OF DRAWINGS

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|----------------|---|----------------|---|
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| E-402 | WEST BAY AREA MECHANICAL POWER PLAN | | |
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THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

TRANSPORTATION PRINCIPAL ENGINEER

POWER SYMBOLS

| | | |
|--|------------------|--|
| | 400 AF 400 AT | MOLDED CASE CIRCUIT BREAKER 400A FRAME RATING 400A TRIP RATING |
| | | GROUND CONNECTION |
| | | METER PER LOCAL UTILITY REQUIREMENTS |
| | | 120/208V POWER/LIGHTING PANEL |
| | | EXISTING PANEL |
| | | FIRE ALARM CONTROL PANEL |
| | | SURGE PROTECTION DEVICE |
| | | GROUND FAULT INTERRUPTER, QUADRUPLEX RECEPTACLE, 20A, 125V. |
| | | DUPLEX RECEPTACLE, 20A, 125V |
| | | SINGLE RECEPTACLE, 20A, 125V |
| | | SINGLE BLOCK HEATER RECEPTACLE |
| | | BHR |
| | | GROUND FAULT INTERRUPTER, DUPLEX RECEPTACLE, 20A, 125V. |
| | | SPECIAL POWER OUTLET |
| | | ELECTRICAL CORD REEL MOUNTED OVERHEAD |
| | | FLUSH MOUNTED FLOOR DUPLEX RECEPTACLE, 20A, 125V |
| | | UNDERGROUND GROUNDING LOOP |
| | | UNDERGROUND CONDUIT |
| | | CONDUIT UNDER PAVEMENT |
| | | HOMERUN, LP1-3 DENOTES LIGHTING PANEL NO. 1, CIRCUIT #3 |
| | | EXISTING UTILITY POLE |
| | | PROPOSED UTILITY POLE |
| | | DS PB |
| | | EXHAUST FAN WITH WP GFI |
| | | PROPELLER FAN, PLAN VIEW |
| | | PROPELLER FAN SPEED CONTROL. "a" INDICATES FAN(S) CONTROLLED |
| | | OVERHEAD DOOR OPERATOR |
| | | PUSHBUTTON STATION |

COMMUNICATION SYMBOLS

| | |
|--|---|
| | PUBLIC ADDRESS SPEAKER - CEILING MOUNTED |
| | PUBLIC ADDRESS SPEAKER - WALL MOUNTED |
| | PUBLIC ADDRESS HORN- WALL MOUNTED (WEATHER PROOF) |
| | COMMUNICATION OUTLET BOX (VOICE AND DATA) |

LIGHT FIXTURE SYMBOLS

SEE E-003 FOR LIGHTING SCHEDULE

| | |
|--|---|
| | PHOTOCELL |
| | SWITCH BOX WITH SINGLE AUTO/MANUAL SWITCH |
| | LIGHT FIXTURE (TYP.) FIXTURE "B" INDICATES FIXTURE TYPE, "LP2-3" INDICATES PANEL AND CIRCUIT NUMBER, AND CIRCUIT NUMBER, "a" INDICATES SWITCHING CIRCUIT. |

FIRE ALARM SYMBOLS

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|--|--|
| | FIRE ALARM WITH STROBE LIGHT- SURFACE MOUNTED |
| | FIRE ALARM HORN WITH STROBE LIGHT- SURFACE MOUNTED |
| | FIRE ALARM WITH STROBE LIGHT- CEILING MOUNTED |
| | FIRE ALARM PULL STATION - SURFACE MOUNTED |
| | SMOKE DETECTOR IONIZATION TYPE. |
| | DUCT MOUNTED SMOKE DETECTOR TO BE FURNISHED, WIRED, AND CONNECTED BY THE ELECTRICAL INSTALLER. |
| | DUCT SMOKE DETECTOR REMOTE TEST STATION TO BE FURNISHED, WIRED, AND CONNECTED BY THE ELECTRICAL INSTALLER. |
| | 190° HEAT DETECTOR. |
| | 135° HEAT DETECTOR. |

OCCUPANCY SENSORS, CATALOG NOS. AS SHOWN BELOW (WATT STOPPER, OR APPROVED EQUAL)

| DEVICE | DESCRIPTION |
|--------|---|
| | 1000 CEILING MOUNTED MULTI-TECHNOLOGY, 1000 SQ FT: DT-300 |
| | 500 CEILING MOUNTED ULTRASONIC, 500 SQ FT: CI-300 |
| | 500 CEILING MOUNTED ULTRASONIC, 500 SQ FT: CI-300 |
| | PIR BAY AREA SENSOR APPROXIMATELY 1000 SQ FT (i DENOTES CONTROLLED FIXTURES): HB300-L3W |
| | PIR WASHBAY WET LOCATION SENSOR APPROXIMATELY 1000 SQ FT: HB300W-L3 |
| | PIR WALL MOUNTED SENSOR (i DENOTES CONTROLLED FIXTURES) 2000 SQ FT: CB100-1 |
| | POWER PACK FOR 120/230/277VAC SYSTEM (i DENOTES CONTROLLED FIXTURES): BZ150 |
| | WALL SWITCH MULTI-TECHNOLOGY, SELF POWERED: PW-100-W |

NOTE: FUSING SHALL BE SIZED PER NEC

| | |
|--|---|
| | MOTOR AMPERE RATING AND HORSEPOWER AS INDICATED |
| | COMBINATION MOTOR STARTER/ FUSED DISCONNECT |
| | DISCONNECT SWITCH, AMPERE RATING AS INDICATED |
| | FUSED DISCONNECT SWITCH, AMPERE RATING AS INDICATED |
| | EXISTING CONCRETE HANDHOLE |
| | CONCRETE HANDHOLE - TYPE I |

ABBREVIATIONS

| | |
|------------------|--|
| A | AMPERE |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| AHU | AIR HANDLING UNIT |
| AUTO | AUTOMATIC |
| AIC | AMPS INTERRUPTING CAPACITY |
| ATC | AUTOMATIC TEMPERATURE CONTROLLER |
| ATS | AUTOMATIC TRANSFER SWITCH |
| AWG | AMERICAN WIRING GAUGE |
| BAS | BUILDING AUTOMATION SYSTEM |
| BLDG | BUILDING |
| BRK. | BREAKER |
| C | CONDUIT |
| CKT. | CIRCUIT |
| COL. | COLUMN |
| CT | CURRENT TRANSFORMER |
| CU | COPPER |
| DISC. | DISCONNECT |
| DF | DRINKING FOUNTAIN |
| DP1 | FUEL POWER PANEL |
| DWG | DRAWING |
| EDH | ELECTRICAL DUCT HEATER |
| EF | EXHAUST FAN |
| ELEC. | ELECTRICAL |
| ERV | ROOF VENTILATOR, EXHAUST |
| EUH | ELECTRICAL UNIT HEATER |
| FA | FIRE ALARM |
| FACP | FIRE ALARM CONTROL PANEL |
| FL | FLOOR |
| G.C. | GENERAL CONTRACTOR |
| GEN | GENERATOR |
| GFI | GROUND-FAULT INTERRUPTER |
| G, GND | GROUND |
| HID | HIGH INTENSITY DISCHARGE |
| HP | HORSEPOWER |
| HPS | HIGH PRESSURE SODIUM |
| HT. | HEIGHT |
| HTR | HEATER |
| HZ | HERTZ |
| IN. | INCH |
| JB | JUNCTION BOX |
| KVA | KILOVOLT AMPERE |
| KW | KILOWATTS |
| LP | LIGHTING PANEL |
| MDP | MAIN DISTRIBUTION POWER PANEL |
| MECH | MECHANICAL |
| MH | METAL HALIDE |
| MTG. HT. | MOUNTING HEIGHT |
| NEC | NATIONAL ELECTRICAL CODE |
| N.C. | NORMALLY CLOSED |
| N.O. | NORMALLY OPEN |
| O.C. | ON CENTER |
| PB | PUSH BUTTON |
| PF | PADDLE FAN |
| PIR | PASSIVE INFRARED |
| P.V.C. | POLYVINYL CHLORIDE CONDUIT |
| PF | POWER FACTOR |
| PP | POWER PANEL |
| PNL | PANEL |
| RM | ROOM |
| REC | RECEPTACLE |
| RGSC | RIGID GALVANIZED STEEL CONDUIT |
| RP | RECEPTACLE PANEL |
| RTAC | ROOF TOP AIR CONDITIONER |
| SPD | SURGE PROTECTION DEVICE |
| SPECS | SPECIFICATIONS |
| S _x " | SWITCH, SINGLE POLE "x" INDICATES SWITCHING CIRCUIT SWITCH |
| SW | SWITCH |
| 3PH | THREE PHASE |
| 3P | THREE POLE |
| TYP. | TYPICAL |
| UH | UNIT HEATER |
| UPS | UNINTERRUPTABLE POWER SUPPLY |
| V | VOLT |
| W | WATT OR WIRE |
| WP | WEATHERPROOF |
| XFMR | TRANSFORMER |

SWITCH CONTROL SYMBOLS

| | |
|-----------------|---|
| S _{TP} | MANUAL STARTER WITH THERMAL PROTECTION AND PILOT LIGHT |
| Sk | KEY LOCK SWITCH, 3-WAY, "b" INDICATES SWITCHING CIRCUIT |
| S _{3b} | FAN SPEED CONTROL SWITCH |
| Sa | SWITCH, SINGLE POLE, "a" INDICATES SWITCHING CIRCUIT |
| S ₃ | SWITCH, 3-WAY, "b" INDICATES SWITCHING CIRCUIT |
| S ₄ | SWITCH, 4-WAY, "b" INDICATING SWITCHING CIRCUIT |

GENERAL NOTES:

- MINIMUM SIZE WIRE FOR POWER AND LIGHTING PANELS CIRCUITS SHALL BE #12 AWG. BRANCH CIRCUITS EXCEEDING 100 FEET IN LENGTH SHALL BE #10 AWG. WIRING SIZE SHALL BE ADJUSTED AS NECESSARY TO REFLECT AMPACITY DERATING DUE TO NUMBER OF LOADED CONDUCTORS SHARING A PARTICULAR RACEWAY. MINIMUM CONDUIT SIZE SHALL BE 3/4" AS OUTLINED IN SPECIFICATION SECTION 260533.
- INTERRUPTING CAPACITY OF ELECTRICAL EQUIPMENT SHALL BE EQUAL TO OR GREATER THAN THE AVAILABLE SHORT-CIRCUIT CURRENT AT ITS SUPPLY TERMINAL. MAIN AND BRANCH CIRCUIT BREAKERS SHALL NOT BE ADJUSTED BELOW VALUES AS INDICATED ON DRAWINGS.
- INSTALLERS SHALL, IN A WORKMANLIKE MANNER, PROVIDE COMPLETE OPERABLE SYSTEMS.
- INSTALLER SHALL COORDINATE ALL WORK WITH OTHER DIVISION TRADES, LOCATE FIXTURES, DEVICES, ETC, IN ORDER TO AVOID INTERFERENCE.
- ALL FEEDER AND BRANCH CIRCUITS SHALL HAVE AN EQUIPMENT GROUND CONDUCTOR INCLUDED WITH PHASE WIRING.
- COMMUNICATION OUTLETS SHALL BE INSTALLED AND WIRED IN ACCORDANCE WITH EIA/TIA-568 STANDARDS.
- ELECTRICAL INSTALLER SHALL BE RESPONSIBLE FOR THE POWER WIRING FOR THE ENERGY MANAGEMENT SYSTEM. THE ELECTRICAL INSTALLER SHALL COORDINATE WITH BAS/ATC INSTALLER. ALL POWER FOR BAS/ATC CONTROLS TO COME FROM SAME UPS THAT POWERS THE BAS/ATC HEAD END.
- CONDUIT ROUTING SHOWN ON THE PLANS ARE ONLY DIAGRAMMATIC IN NATURE.
- ALL CIRCUITS SHALL HAVE SEPARATE NEUTRAL CONDUCTOR FROM ELECTRICAL PANELS.
- ALL CONDUITS AND BOXES IN OFFICE CORE AREA SHALL BE CONCEALED INCLUDING BOXES FOR TEMPERATURE SENSORS ASSOCIATED WITH BAS SYSTEM.
- ALL PANELBOARDS SHALL BE MOUNTED ON 3/4" FIRE RETARDANT PLYWOOD, TREATED ON ALL SIDES, AND PAINTED WITH TWO COATS OF BLACK ENAMEL ON ALL SIDES.
- INSTALL FIRE STOP AROUND ALL ELECTRICAL CONDUIT PENETRATIONS THROUGH FIRE RESISTANCE RATED WALLS.
- THE SPACE EQUAL TO THE WIDTH AND DEPTH OF SERVICE EQUIPMENT, SWITCHBOARDS, PANEL BOARDS, AND MOTOR CONTROL CENTERS EXTENDING UP FROM THE FLOOR TO A HEIGHT OF 6' ABOVE THE EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWER, SHALL BE DEDICATED TO THE ELECTRICAL INSTALLATION. FOREIGN SYSTEMS (SUCH AS WATER PIPING) INSTALLED DIRECTLY ABOVE THE DEDICATED SPACE MUST INCLUDE PROTECTIVE EQUIPMENT THAT ENSURES THAT OCCURRENCES SUCH AS LEAKS, CONDENSATION, AND BREAKS DO NOT DAMAGE ELECTRICAL EQUIPMENT BELOW. SEE NEC ARTICLE 110.26 FOR FURTHER DETAILS.
- CONDUCTORS FOR ALL THE ELECTRICAL SYSTEMS SHALL BE RUN IN CONDUIT NO EXPOSED CONDUCTORS SHALL BE ALLOWED UNLESS WHERE SPECIFICALLY NOTED OTHERWISE.
- REFER TO DRAWING NO. E-900 FOR THE MOUNTING HEIGHT OF ALL ELECTRICAL EQUIPMENT UNLESS OTHERWISE NOTED.
- ALL WIRING IN BAYS AND SHOPS SHALL BE FED OVERHEAD IN CONDUIT (NO EXPOSED WIRING ALLOWED) - NO CONDUIT ALLOWED IN FLOOR SLAB, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL HANG ALL OVERHEAD CONDUITS IN BAYS WITH BEAM CLAMPS. ALL CONDUIT AND BOXES IN CMU WALLS SHALL BE CONCEALED. SEE DRAWING NO. E-900 FOR CONDUIT TYPE SPECIFIED FOR EACH LOCATION.

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| REV. DATE | REVISION DESCRIPTION | SHEET NO. | Plotted Date: 8/5/2015 | DESIGNER/DRAFTER: FC | CHECKED BY: JMK | STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION | SIGNATURE/ BLOCK: APPROVED BY: |
| | | | | POMFRET MAINTENANCE FACILITY | | PROJECT TITLE: | TOWN: POMFRET |
| | | | | OFFICE OF ENGINEERING | | PROJECT NO. 111-121 | DRAWING NO. E-002 |
| | | | | DEPARTMENT OF TRANSPORTATION | | DRAWING TITLE: SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES | SHEET NO. 09.02 |
| Filename: ...VFD_MSH_ELE.0111.0121.E002.dgn | | | | | | | |

MAINTENANCE FACILITY LIGHTING FIXTURE SCHEDULE

| | NAME | SYMBOL | DESCRIPTION | VOLTS | LAMP | MOUNTING | BASIS OF DESIGN: MANUFACTURER & CATALOG NUMBER |
|--------------------|------------|--------|--|-------|------|------------------------------------|---|
| | | | | | TYPE | | |
| OFFICE CORE | B | | 2'x 4' RECESSED LED TROFFER WITH 0 - 10V DIMMING CONTROL. | 120V | LED | RECESSED | CREE ZR24 40L 40K 10V |
| | BE | | SAME AS TYPE 'B' BUT WITH BATTERY BACKUP FOR EMERGENCY EGRESS LIGHTING. | 120V | LED | RECESSED | CREE ZR24 40L 40K 10V EB14 |
| | B2 | | 2' x 2' RECESSED LED TROFFER WITH 0 - 10V DIMMING CONTROL. | 120V | LED | RECESSED | CREE ZR22 32L 40K 10V |
| | B2E | | SAME AS TYPE 'B2' BUT WITH BATTERY BACKUP FOR EMERGENCY EGRESS LIGHTING. | 120V | LED | RECESSED | CREE ZR22 32L 40K 10V EB14 |
| BAY AREA | A | | 4' HEAVY DUTY INDUSTRIAL LED LUMINAIRE | 120V | LED | PENDANT | CREE CS14 38L 40K 10V |
| | AE | | SAME AS TYPE "A" BUT WITH BATTERY BACKUP FOR EMERGENCY LIGHTING. | 120V | LED | PENDANT | CREE CS14 38L 40K 10V BATTERY BACKUP INVERTER - LIGHTALARMS LMIU-125-ID |
| | C | | 4' HEAVY DUTY INDUSTRIAL LED LUMINAIRE W/ ENHANCED ALUMINUM SPECULAR REFLECTOR AND POLYCARBONATE SHIELD TO BE PENDANT MOUNTED OVER WORKBENCH. | 120V | LED | PENDANT/ WALL | CREE CS14 40L HE 40K 10V |
| | D1 | | LED FULL CUTOFF WALL-PACK LUMINAIRE WITH DIE-CAST ALUMINUM HOUSING PAINTED WITH POWDER COAT FINISH AND IP65 RATING. TYPE 4 DISTRIBUTION | 120V | LED | WALL | LITHONIA #CSXWLED 30C 1000 40K T4M 120 DDBXD |
| | H | | HIGH BAY LED LUMINAIRE PENDANT MOUNTED, WITH PROGRAM START BALLAST, THREE CONDUCTOR CORD 3' IN LENGTH AND NEMA TWIST LOCK PLUG FOR 120V. | 120V | LED | PENDANT | CREE CPY250 A PD F B UL WH 40K DIM |
| | HE | | SAME AS H BUT WITH A BATTERY BACKUP FOR EMERGENCY LIGHTING (EMERGENCY BACKUP WITH T-BAR MOUNTING OPTION ORDERED SEPARATELY). | 120V | LED | PENDANT | CREE CPY250 A PD F B UL WH 40K DIM BATTERY BACKUP INVERTER - LIGHTALARMS LMIU-125-ID-T |
| | J | | HIGH BAY LED WATERPROOF HIGH PRESSURE HOSE DOWN LUMINAIRE FLUSH MOUNTED TO MAINTAIN IP66 FIXTURE RATING WATERPROOF TWIST LOCK RECEPTACLE. TO BE USED IN THE WASH BAY ONLY. | 120V | LED | PENDANT | CREE CPY250 A DM F B UL WH 40K DIM |
| | JE | | SAME AS TYPE J BUT WITH BATTERY BACKUP FOR EMERGENCY LIGHTING (EMERGENCY BACKUP ORDERED SEPARATELY). | 120V | LED | PENDANT | CREE CPY250 A DM D F UL WH 40K DIM BATTERY BACKUP INVERTER - LIGHTALARMS LMIU-125-ID |
| EGRESS | X | | SINGLE FACE CAST EXIT SIGN WITH LED ILLUMINATION SYSTEM AND ENCLOSED EMERGENCY NI-CAD BATTERY PACK (KNOCKOUT ARROW WHERE SHOWN ON PLAN). | 120V | LED | WALL | LIGHTALARMS 8 GXE W R W DL (GPW WHERE REQUIRED) |
| | X2 | | DOUBLE FACE CAST EXIT SIGN WITH LED ILLUMINATION SYSTEM AND ENCLOSED EMERGENCY NI-CAD BATTERY PACK. | 120V | LED | CEILING | LIGHTALARMS 82 GXE W R W DL (GPW WHERE REQUIRED) |
| | XW | | NEMA 4 WEATHERPROOF SINGLE FACE CAST EXIT SIGN WITH LED ILLUMINATION SYSTEM AND ENCLOSED EMERGENCY NI-CAD BATTERY PACK. NOTE: ADD UNIVERSAL WHEELCHAIR SYMBOL NEXT TO SIGN. | 120V | LED | WALL | LIGHTALARMS 8 GXE W R W (VRC-4X) |
| | XA | | SINGLE FACE CAST EXIT SIGN WITH LED ILLUMINATION SYSTEM AND ENCLOSED EMERGENCY NI-CAD BATTERY PACK. FACE INCLUDES UNIVERSAL WHEELCHAIR ACCESSIBLE SYMBOL. | 120V | LED | WALL | EXIT SIGN WAREHOUSE CT702 WB WH |
| BTH. | I | | 2' LED LIGHT LUMINAIRE. | 120V | LED | WALL | CREE SL24 20L 35K |
| | SL | | SHOWER LIGHT | 120V | LED | CEILING | FIXTURE TO BE SUPPLIED BY SHOWER INSTALLER WITH SHOWER STALL. |
| EXTERIOR | D | | LED FULL CUTOFF WALL-PACK LUMINAIRE WITH DIE-CAST ALUMINUM HOUSING PAINTED WITH POWDER COAT FINISH AND IP65 RATING. TYPE 4 DISTRIBUTION. | 120V | LED | WALL | LITHONIA #WST LED 2 10A700/40K SR4 MVOLT DDBXD |
| | DE | | LED FULL CUTOFF WALL-PACK LUMINAIRE WITH DIE-CAST ALUMINUM HOUSING PAINTED WITH POWDER COAT FINISH AND IP65 RATING. TYPE 4 DISTRIBUTION WITH "ELCW" BATTERY BACKUP OPTION. | 120V | LED | WALL | LITHONIA #WST LED 2 10A700/40K SR4 MVOLT ECLW DDBXD |
| | D2 | | LED FULL CUTOFF WALL-PACK LUMINAIRE WITH DIE-CAST ALUMINUM HOUSING PAINTED WITH POWDER COAT FINISH AND IP65 RATING. TYPE 2 DISTRIBUTION. | 120V | LED | WALL | LITHONIA #WST LED 2 10A700/40K SR2 MVOLT DDBXD |
| | D2E | | LED FULL CUTOFF WALL-PACK LUMINAIRE WITH DIE-CAST ALUMINUM HOUSING PAINTED WITH POWDER COAT FINISH AND IP65 RATING. TYPE 2 DISTRIBUTION WITH "ELCW" BATTERY BACKUP OPTION. | 120V | LED | WALL | LITHONIA #WST LED 2 10A700/40K SR2 MVOLT ECLW DDBXD |
| | L1 | | LED COBRA - ROADWAY LUMINAIRE - IES TYPE II, FULL CUTOFF - SINGLE LED MODULE | 120V | LED | POLE | CREE BXSP1 B HT 2ME E 40K US UL BZ ML |
| | L2 | | LED COBRA - ROADWAY LUMINAIRE - IES TYPE III, FULL CUTOFF - DOUBLE LED MODULE | 120V | LED | POLE | CREE BXSP2 B HT 3ME E 40K US UL BZ ML |
| | POLE L1,L2 | | 20' MOUNTING HEIGHT ROUND TAPERED ALUMINUM POLE, 6063-T6 ALUMINUM ALLOY 7"x4"x.156", 6' SINGLE MEMBER BRACKET ARM, TB-117 TRANSFORMER BASE, BRONZE FINISH, SINGLE FIXTURE BRACKET. | | | | UNITED LIGHTING STANDARDS RTA-745202 UMB-16 |
| | G1 | | FLAG POLE FIXTURE COMPACT FLOOD, LED, 120V, SPOT, KNUCKLE MOUNT, BLACK. | 120V | | KNUCKLE MTD ON 24" STANCHION | HOLOPHANE ACP1 410A MVOLT 7 4K BZ NR |

GENERAL NOTES:

1. ALL LED LIGHTING SHALL BE SUPPLIED WITH AVAILABLE POWER FEED ACCESSORIES FROM THE MANUFACTURER. PLENUM ACCESSORIES SHALL BE SUPPLIED AS REQUIRED TO COMPLY WITH LOCAL BUILDING CODE. CONSULT MANUFACTURER FOR CURRENT CATALOG NUMBERS.
2. DESIGN IS BASED ON CATALOG NUMBERS LISTED. IF SUBMITTED FIXTURES ARE DIFFERENT, THE CONTRACTOR SHALL SUBMIT A PHOTOMETRIC LIGHT ANALYSIS AND POWER DENSITY ANALYSIS REPORT COMPLETE WITH FOOT CANDLE LEVELS AND LIGHT POWER DENSITIES FOR APPROVAL BY THE DESIGNER.
3. PROVIDE WEATHERPROOF FIXTURES AND BATTERY BACKUP ACCESSORIES WHERE INDICATED ON THE PLANS. CATALOG NUMBERS ARE BASIS OF DESIGN ONLY AND ARE SUBJECT TO CHANGE TO COMPLY WITH THE PLAN AND SPECS.
4. ALL LIGHT FIXTURES SHALL QUALIFY FOR POSSIBLE UTILITY REBATE/INCENTIVES.
5. PROVIDE OCCUPANCY SENSOR WITH DIMMING OPTION FOR ALL POLE MOUNTED EXTERIOR LIGHTING (L1 & L2) EXCEPT ON THE L2 FIXTURE LOCATED AT THE ENTRANCE TO THE FACILITY.

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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 8/5/2015

DESIGNER/DRAFTER:
FC

CHECKED BY:
JMK



SIGNATURE/
BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
POMFRET MAINTENANCE FACILITY

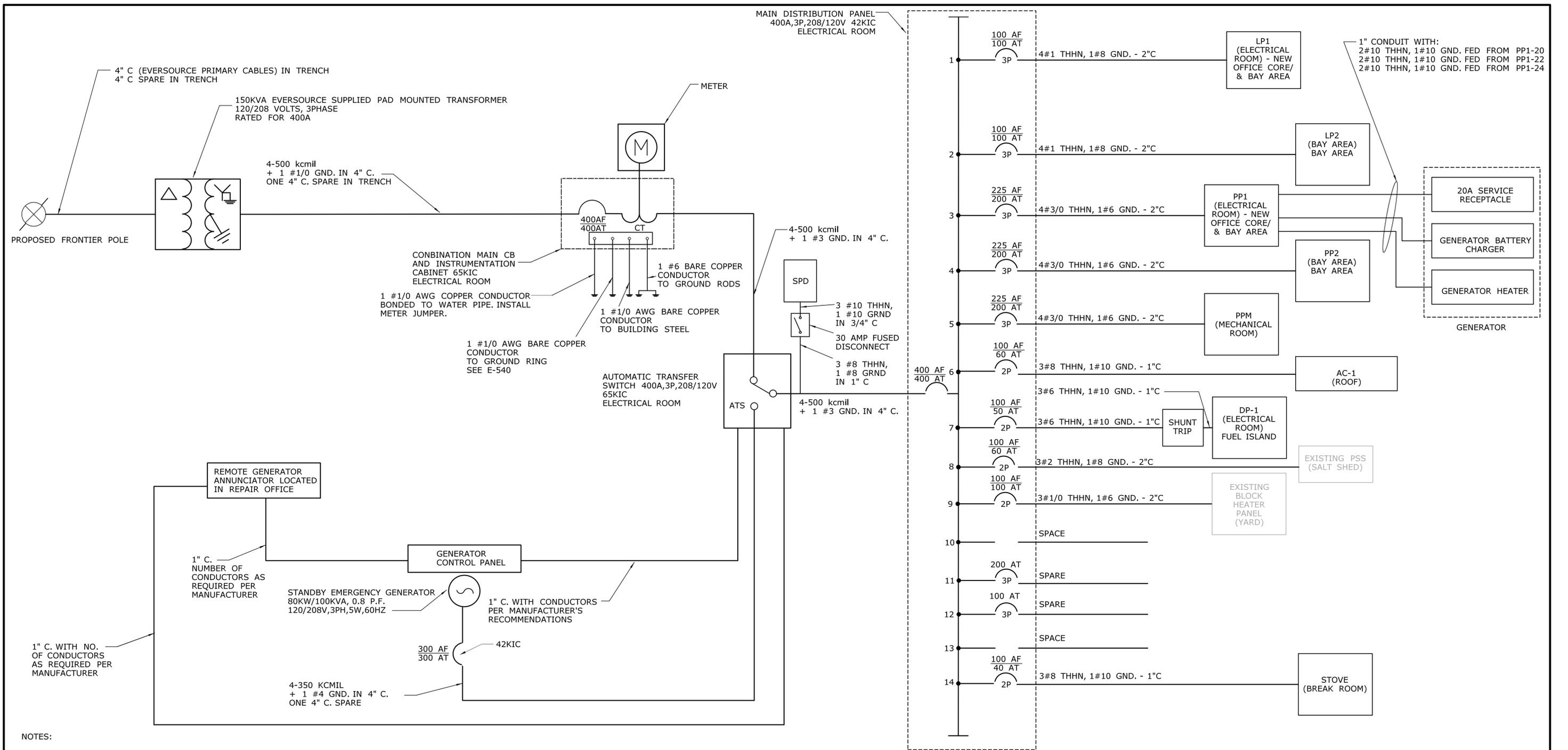
TOWN:
POMFRET

DRAWING TITLE:
LIGHT FIXTURE SCHEDULE

PROJECT NO.
111-121

DRAWING NO.
E-003

SHEET NO.
09.03



NOTES:

- SPD SHALL BE INSTALLED ON THE LOAD SIDE OF THE MAIN DISCONNECT OVER CURRENT PROTECTION. REFER TO NEC ARTICLE 285. SPD SHALL BE AS REQUIRED BY UL96A AND LABELED FOR THE LIGHTNING PROTECTION SYSTEM BY UL.
- EVERSOURCE SHALL PROVIDE AND INSTALL CONDUCTORS, TRANSFORMER AND MISCELLANEOUS HARDWARE FROM THE PROPOSED FRONTIER POLE TO THE SERVICE DISCONNECT. CONTRACTOR SHALL INSTALL CONDUIT 18 INCHES AFG ADJACENT TO THE POLE.
- DUE TO VOLTAGE DROP SOME CONDUCTORS MAY NOT FIT THE CIRCUIT BREAKER LUGS. THE CONTRACTOR SHALL FURNISH AND INSTALL THE APPROPRIATE SPLICE KITS AND WIREWAYS TO SPLICE LARGER CONDUCTORS IN THE MDP AND APPROPRIATE PANELBOARD. SPLICING SHALL BE PERFORMED IN ACCORDANCE TO THE NEC 2011.
- WIREWAY MAY BE USED IN LIEU OF CONDUIT IN THE ELECTRICAL ROOM FOR THE PURPOSE OF ENCLOSING CONDUCTORS.

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| DESIGNER/DRAFTER: FC |
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| NTS |


STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

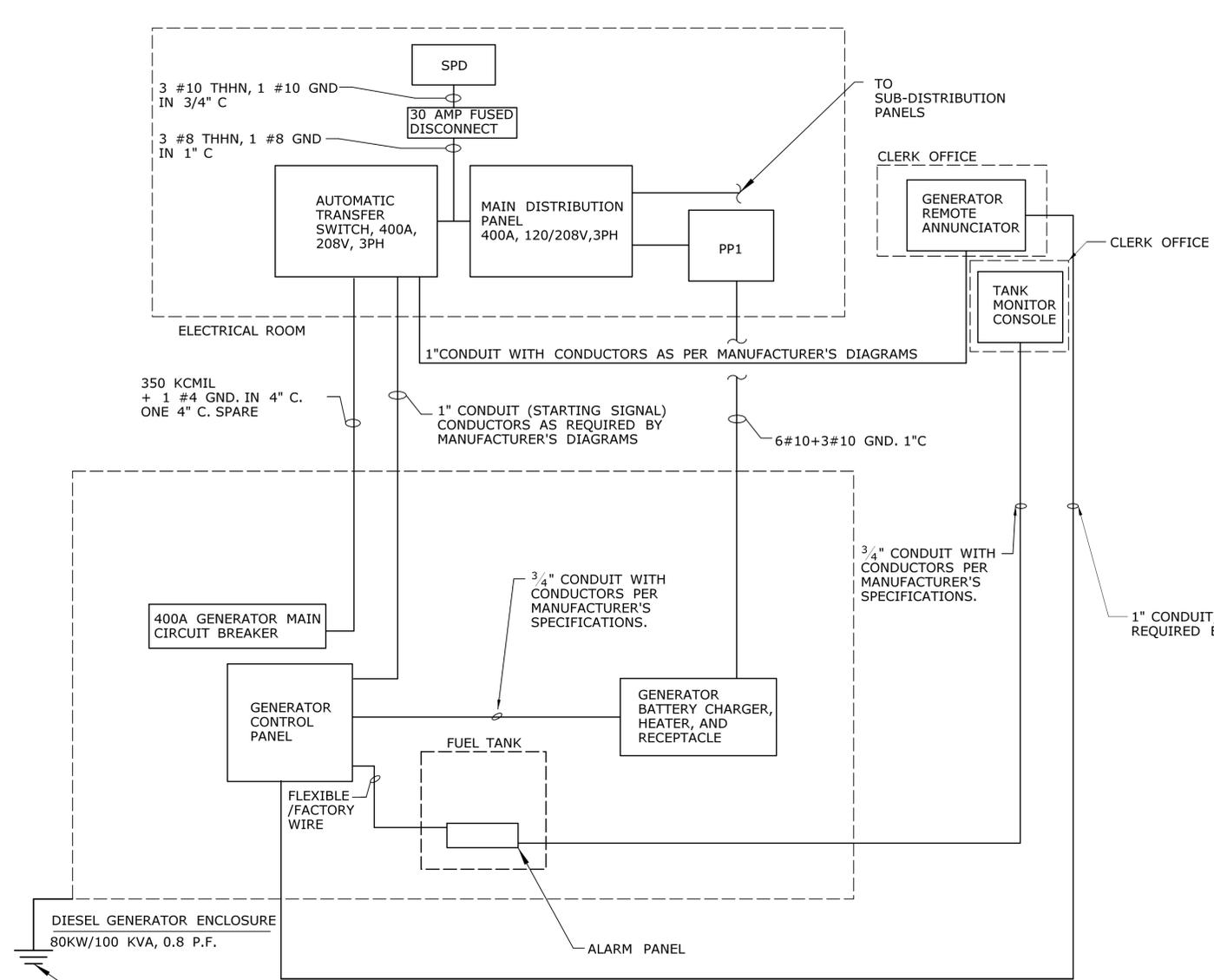
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OFFICE OF ENGINEERING
POMFRET MAINTENANCE FACILITY

POMFRET
ONE LINE DIAGRAM

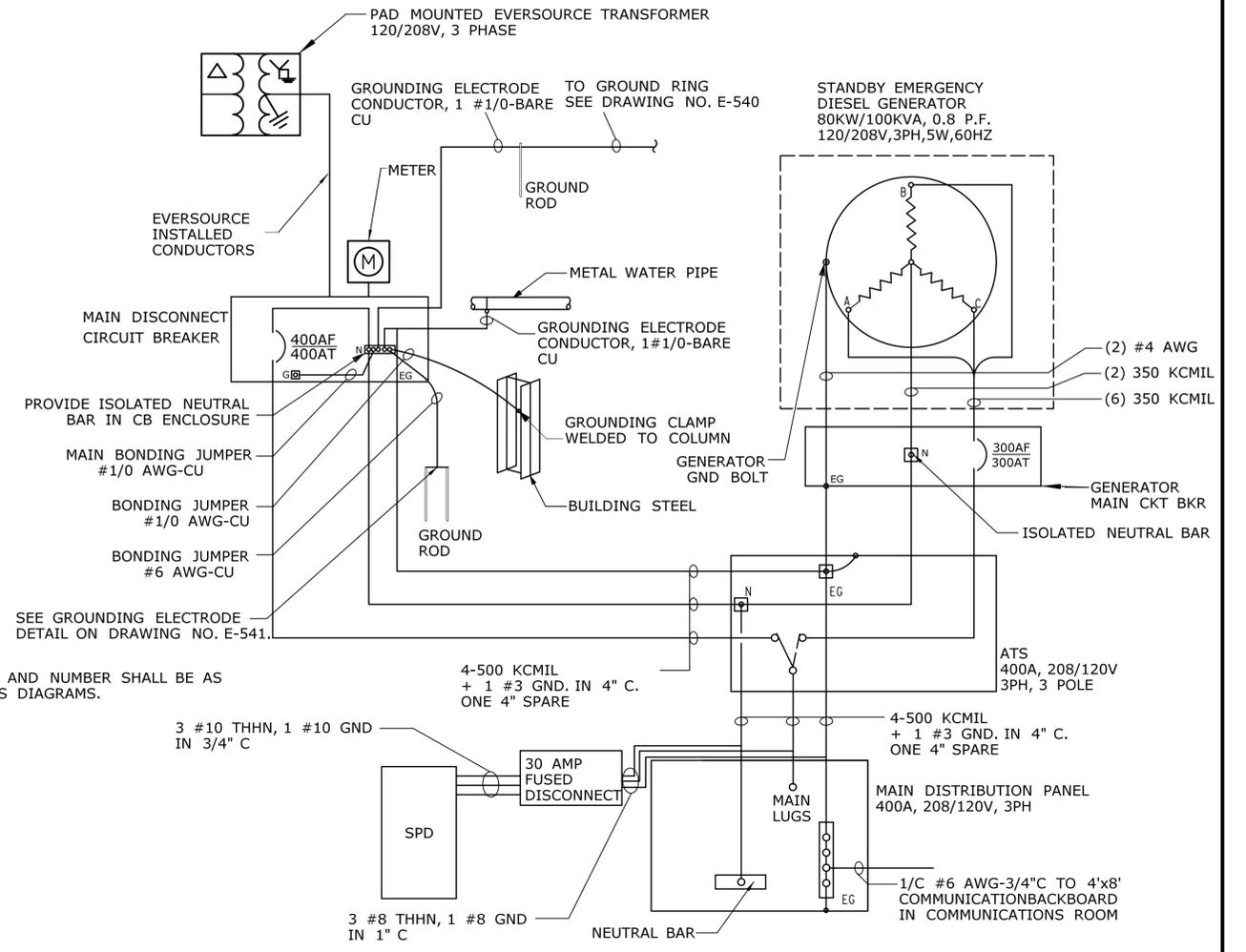
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| PROJECT NO. 111-121 |
| DRAWING NO. E-110 |
| SHEET NO. 09.05 |



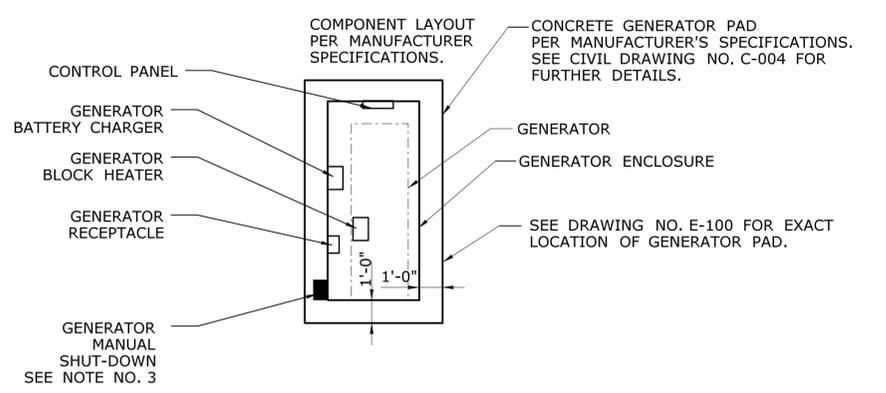
DIESEL GENERATOR ELECTRICAL SYSTEMS INTERCONNECTION DIAGRAM 1
 NOT TO SCALE E-111

DRAWING NOTES:

1. CONTRACTOR SHALL INSTALL BRANCH FEEDERS FROM PP1 PANEL (PP1-20, PP1-22, AND PP1-24) TO GENERATOR AUXILIARY EQUIPMENT AS SPECIFIED INCLUDING BATTERY CHARGER, ENGINE HEATER, AND RECEPTACLE. CONDUCTOR AND CONDUIT SIZE SHALL COMPLY WITH NEC REQUIREMENTS.
2. ALL CONDUIT WITHIN GENERATOR ENCLOSURE SHALL BE MINIMUM 3/4 INCH.
3. THE CONTRACTOR SHALL PROVIDE MANUAL SHUTDOWN LOCATED EXTERNAL TO THE WEATHER PROOF ENCLOSURE AND SHOULD BE APPROPRIATELY IDENTIFIED.
4. SEE DRAWING NOS. E-100 AND E-602 FOR FURTHER DETAILS ON TANK MONITORING SYSTEM.
5. THE GENERATOR PAD SIZE SHALL BE AS SPECIFIED BY THE GENERATOR MANUFACTURER. THE GENERATOR DIESEL TANK SIZE SHALL BE MINIMUM 332 GALLONS FOR 48-HOUR OPERATION.

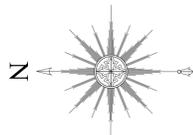


POWER SERVICE & STANDBY DIESEL GENERATOR GROUNDING 2
 NOT TO SCALE E-111

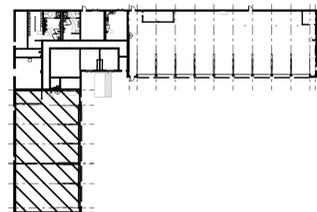


STANDARD ENCLOSURE GENERATOR LAYOUT 3
 NOT TO SCALE E-111

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| | | THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. | DESIGNER/DRAFTER: FC CHECKED BY: JMK | STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION | SIGNATURE/BLOCK: OFFICE OF ENGINEERING APPROVED BY: <i>[Signature]</i> | PROJECT TITLE: POMFRET MAINTENANCE FACILITY | TOWN: POMFRET | PROJECT NO. 111-121 DRAWING NO. E-111 SHEET NO. 09.06 | |
| REV. DATE | REVISION DESCRIPTION | SHEET NO. | Plotted Date: 8/3/2015 | SCALE AS NOTED | Filename: ...FD_MSH_ELE_0111_0121_E111.dgn | | | | |

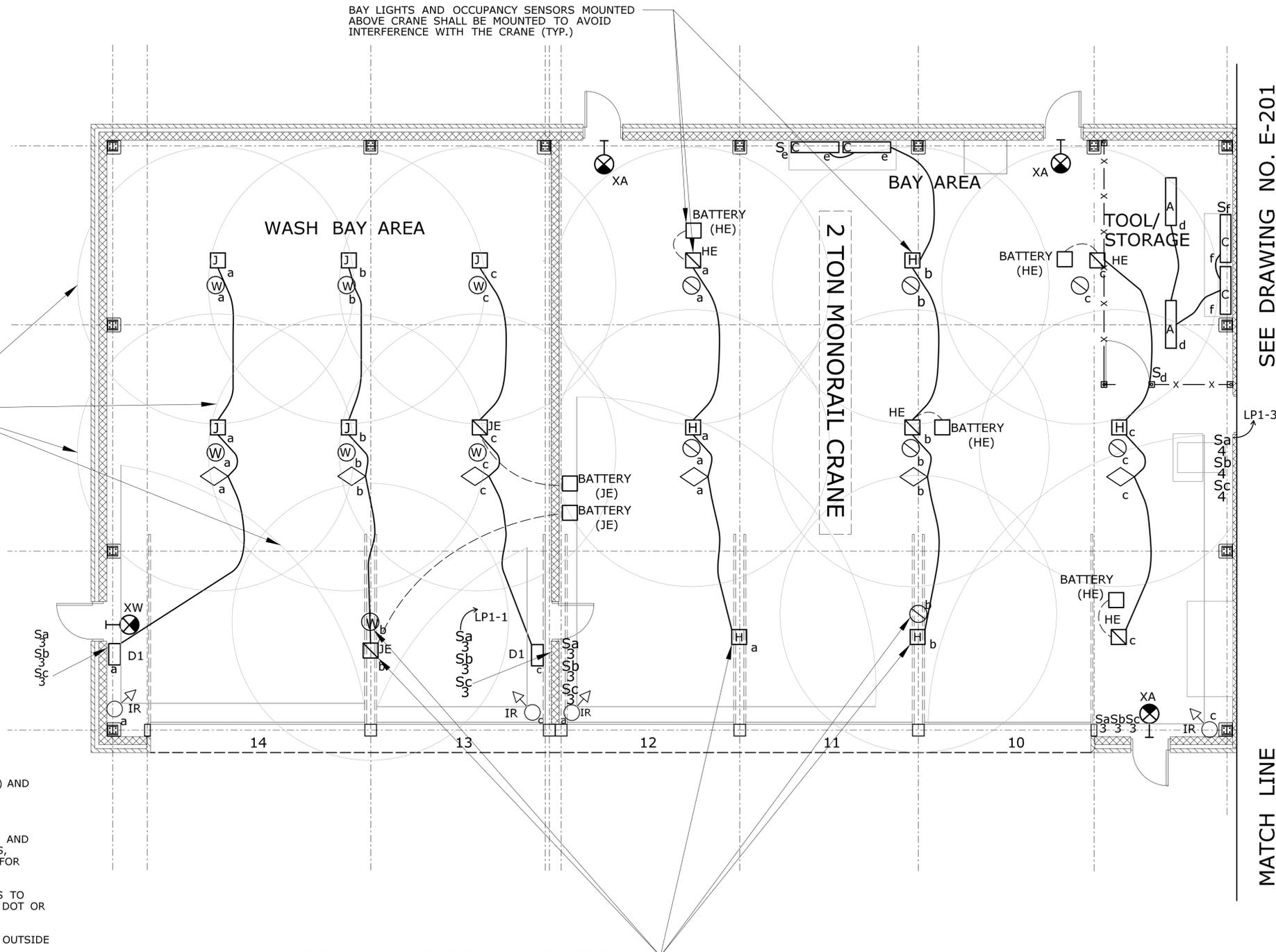


DRAWING KEY:



OCCUPANCY SENSOR PATTERN
(TYPICAL - ADJUST SENSITIVITY
TO RANGE SHOWN)

BAY LIGHTS AND OCCUPANCY SENSORS MOUNTED
ABOVE CRANE SHALL BE MOUNTED TO AVOID
INTERFERENCE WITH THE CRANE (TYP.)



SEE DRAWING NO. E-201

MATCH LINE

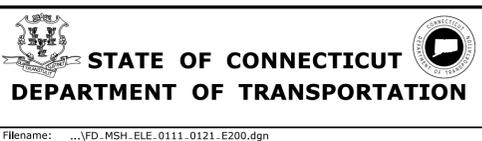
DRAWING NOTES:

- SEE SITE PLAN E-100 FOR EXTERIOR LIGHTING INFORMATION.
- EXIT SIGNS SHALL BE UNSWITCHED (WIRED BEFORE THE SWITCH) AND POWERED BY THE CLOSEST INTERIOR LIGHTING CIRCUIT.
- REFER TO DRAWING NO E-201 FOR OCCUPANCY SENSOR NOTES.
- REFER TO DRAWING NO. E-003 FOR LIGHTING FIXTURE SCHEDULE AND DRAWING NO. E-002 FOR LIGHTING FIXTURE, OCCUPANCY SENSORS, AND SWITCH CONTROL SYMBOLS. REFER TO DRAWING NO. E-900 FOR MOUNTING HEIGHT DETAILS.
- PROVIDE MARKINGS ON EXTERIOR OF EMERGENCY LIGHT FIXTURES TO MAKE READILY APPARENT FROM GROUND LEVEL. (PROVIDE A RED DOT OR DISTINCT MARKING APPROVED BY ENGINEER).
- BATTERY PACKS FOR TYPE JE LIGHT FIXTURES SHALL BE MOUNTED OUTSIDE THE WASH BAY, ON THE ADJACENT WALL IN THE BAY AREA.
- COVERAGE RANGE OF WALL MOUNTED OCCUPANCY SENSORS IN BAY AREA SHALL NOT OVERLAP. ADJUST SENSITIVITY OF WALL MOUNTED OCCUPANCY SENSORS IN WASHBAY SO THAT RANGE COVERS ONLY THE WIDTH OF CLOSEST GARAGE DOOR (ADJUST RANGE OF OCCUPANCY PATTERN IN BAYS AS SHOWN ON PLAN).
- ADJUST SENSITIVITY OF CEILING MOUNTED OCCUPANCY SENSORS SO THAT SENSOR COVERAGE PATTERNS AT FLOOR LEVEL ARE 23' DIAMETER.

FIXTURE AND OCCUPANCY SENSORS SHALL BE SUSPENDED
IN-BETWEEN AND BELOW DOOR RAILS AND SHALL NOT
INTERFERE WITH THE DOOR OR DOOR OPERATION
(TYPICAL, AT DOOR LOCATIONS).

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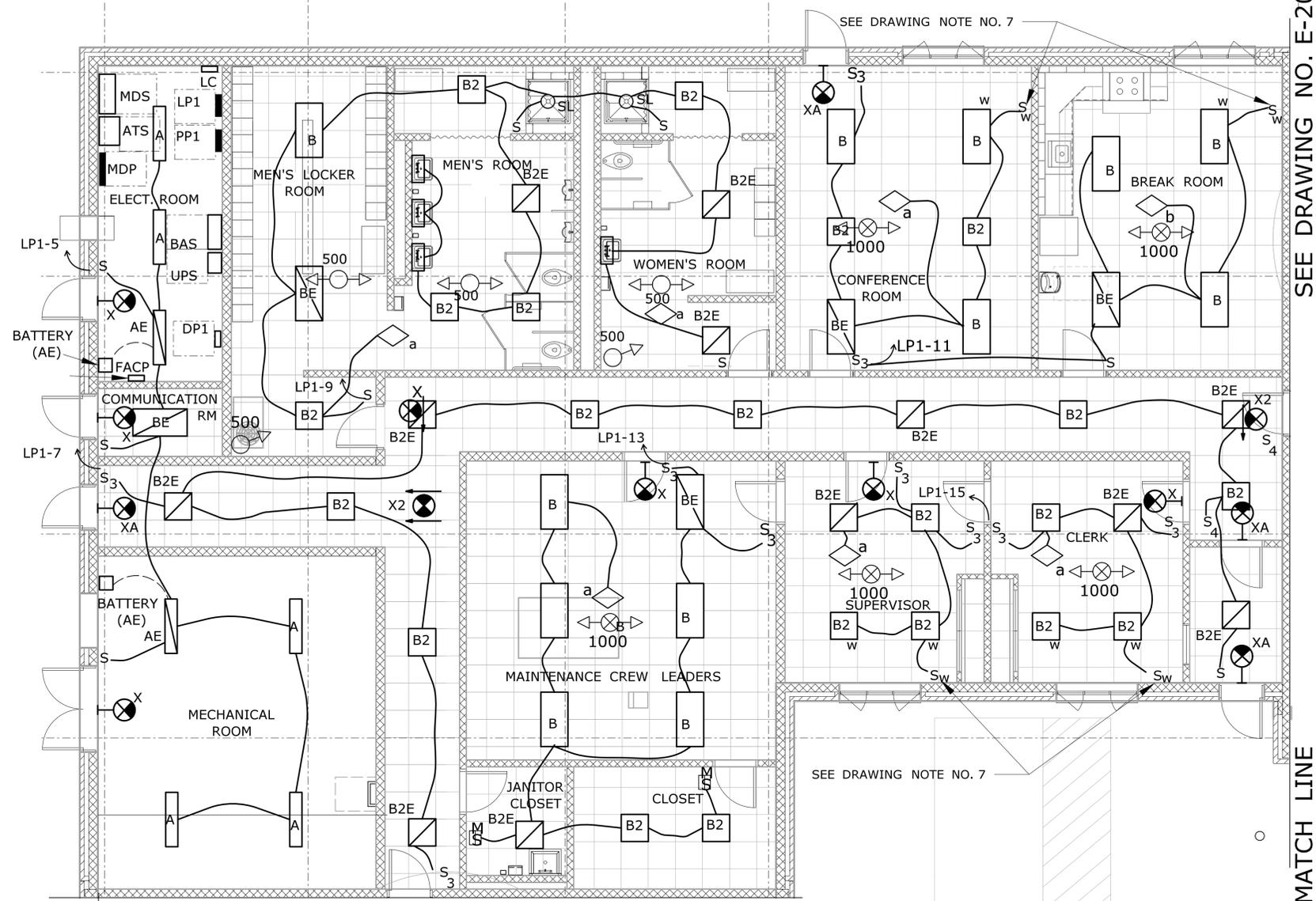


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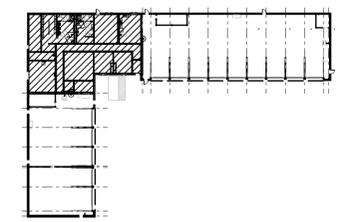
PROJECT TITLE:
POMFRET MAINTENANCE FACILITY

TOWN:
POMFRET
DRAWING TITLE:
NORTH BAY AREA LIGHTING PLAN

PROJECT NO.:
111-121
DRAWING NO.:
E-200
SHEET NO.:
09.07



DRAWING KEY:



OCCUPANCY SENSOR NOTES:

1. ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
2. ULTRASONIC/MULTI- TECHNOLOGY CEILING MOUNT SENSORS SHALL BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN VENTS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR NON-ADAPTIVE PRODUCTS, FOLLOWING THE MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
4. THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING THE REQUIRED NUMBER OF POWER PACKS:
 - A. ONE POWER PACK IS REQUIRED FOR EACH CONTROLLED CIRCUIT.
 - B. EACH POWER PACK SUPPLY CAPACITY IS 150mA. REFER TO MANUFACTURER'S INSTALLATION GUIDE FOR MAXIMUM NUMBER OF SENSORS CONNECTED TO POWER PACK.
 - C. IF MULTIPLE CIRCUITS ARE TO BE CONTROLLED BY A SINGLE SENSOR, AUXILIARY RELAYS SHALL BE USED IN CONJUNCTION WITH A POWER PACK.
5. SENSORS MOUNTED OVER DOORWAYS SHALL BE PLACED ONE (1) FOOT INSIDE THRESHOLD.
6. OCCUPANCY SENSOR LOCATIONS SUBJECT TO CHANGE TO OPTIMIZE PERFORMANCE.

MATCH LINE

SEE DRAWING NO. E-200

MATCH LINE

DRAWING NOTES:

1. ALL CONCEALED CONDUIT IN OFFICE CORE SHALL BE EMT, EXCEPT FULLY RATED MC (METAL CLAD) CABLE SHALL BE USED TO CONNECT RECESSED FIXTURES FROM JUNCTION BOXES ABOVE SUSPENDED CEILING. SEE DETAIL NO. 2 ON DRAWING NO. E-900.
2. REFER TO DRAWING NO. E-003 FOR LIGHTING FIXTURE SCHEDULE AND DRAWING NO. E-002 FOR LIGHTING FIXTURE, OCCUPANCY SENSORS, AND SWITCH CONTROL SYMBOLS. REFER TO DRAWING NO. E-900 FOR MOUNTING HEIGHT DETAILS.
3. INSTALL LED FIXTURES TYPE "BE" AND "B2E" WITH EMERGENCY BACKUP IN LOCATIONS SHOWN ON THIS PAGE. PROVIDE MARKING ON EXTERIOR OF FIXTURE TO MAKE READILY APPARENT FROM GROUND LEVEL (PROVIDE A RED DOT OR DISTINCT MARKING APPROVED BY ENGINEER).
4. EXIT SIGNS SHALL BE POWERED BY THE CLOSEST INTERIOR LIGHTING CIRCUIT. EXIT SIGNS SHALL BE UNSWITCHED (WIRED BEFORE THE SWITCH).
5. COORDINATE FINAL LOCATION OF TYPE "A" AND "AE" FIXTURES WITH ENGINEER AS TO AVOID CONFLICT WITH MECHANICAL EQUIPMENT.
6. SEE SITE PLAN E-100 FOR WALLPACK LIGHTING INFORMATION.
7. LIGHTING CONTROL SWITCH FOR AREAS BY WINDOWS.

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PROJECT TITLE:
POMFRET MAINTENANCE FACILITY

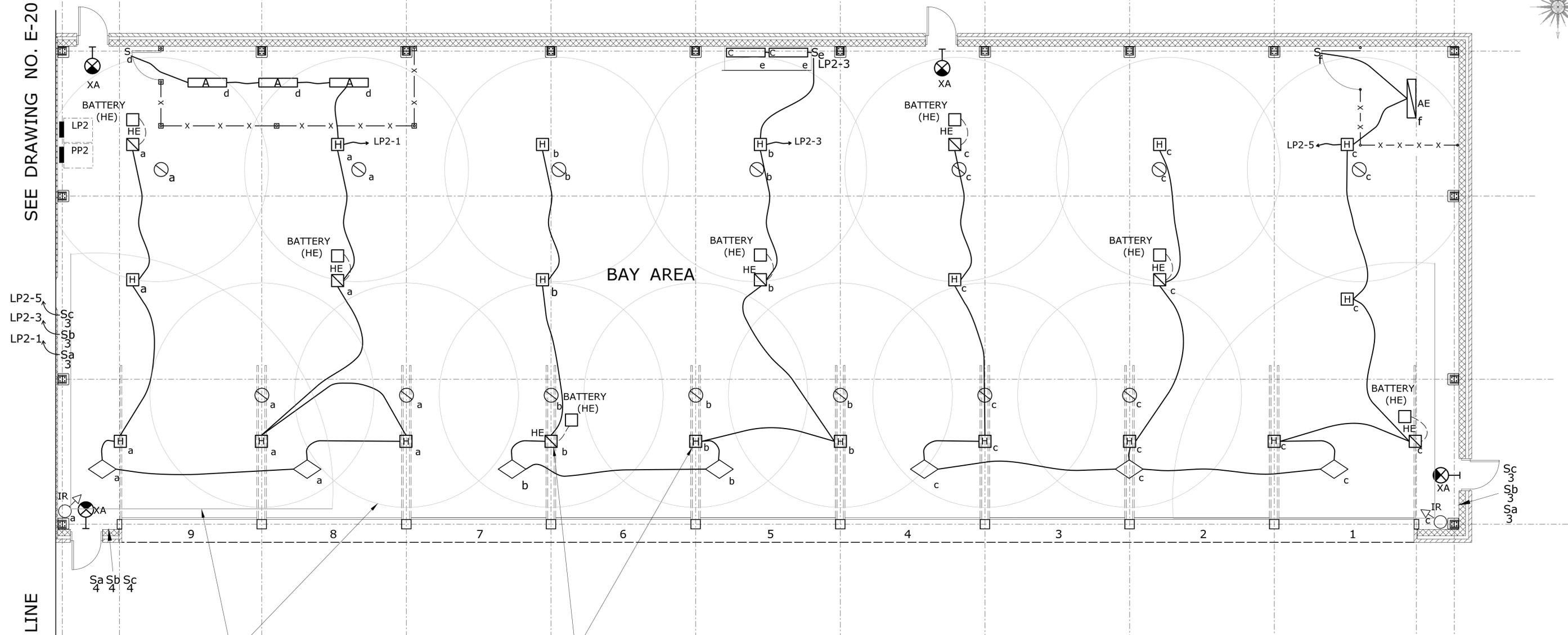
TOWN:
POMFRET
DRAWING TITLE:
OFFICE AREA LIGHTING PLAN

PROJECT NO.:
111-121
DRAWING NO.:
E-201
SHEET NO.:
09.08



SEE DRAWING NO. E-201

MATCH LINE



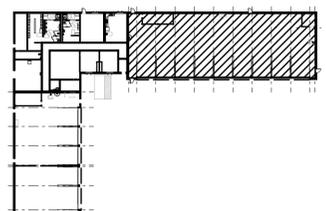
OCCUPANCY SENSOR PATTERN RANGE (TYPICAL - ADJUST SENSITIVITY TO RANGE SHOWN))

FIXTURES AND OCCUPANCY SENSORS SHALL BE SUSPENDED IN-BETWEEN AND BELOW DOOR RAILS AND SHALL NOT INTERFERE WITH THE DOOR OR DOOR OPERATION (TYPICAL, AT DOOR LOCATIONS).

DRAWING NOTES:

1. SEE SITE PLAN E-100 FOR WALLPACK LIGHTING INFORMATION.
2. EXIT SIGNS SHALL BE POWERED BY THE CLOSEST INTERIOR LIGHTING CIRCUIT. EXIT SIGNS SHALL BE UNSWITCHED (WIRED BEFORE THE SWITCH).
3. REFER TO DRAWING NO. E-201 FOR OCCUPANCY SENSOR NOTES.
4. REFER TO DRAWING NO. E-003 FOR LIGHTING FIXTURE SCHEDULE AND DRAWING NO. E-002 FOR LIGHTING FIXTURE, OCCUPANCY SENSORS, AND SWITCH CONTROL SYMBOLS. REFER TO DRAWING NO. E-900 FOR MOUNTING HEIGHT DETAILS.
5. PROVIDE MARKINGS ON EXTERIOR OF EMERGENCY LIGHT FIXTURES TO MAKE READILY APPARENT FROM GROUND LEVEL (PROVIDE A RED DOT OR DISTINCT MARKING APPROVED BY ENGINEER).
6. ADJUST SENSITIVITY OF WALL MOUNTED OCCUPANCY SENSORS SO THAT RANGE COVERS THE WIDTH OF CLOSEST TWO GARAGE DOORS.
7. ADJUST SENSITIVITY OF CEILING MOUNTED OCCUPANCY SENSORS SO THAT SENSOR COVERAGE PATTERNS AT FLOOR LEVEL ARE 23' DIAMETER.

DRAWING KEY:



| REV. | DATE | REVISION DESCRIPTION | SHEET NO. | Plotted Date: 8/5/2015 |
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DEPARTMENT OF TRANSPORTATION

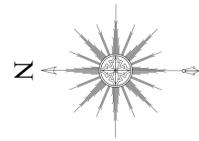
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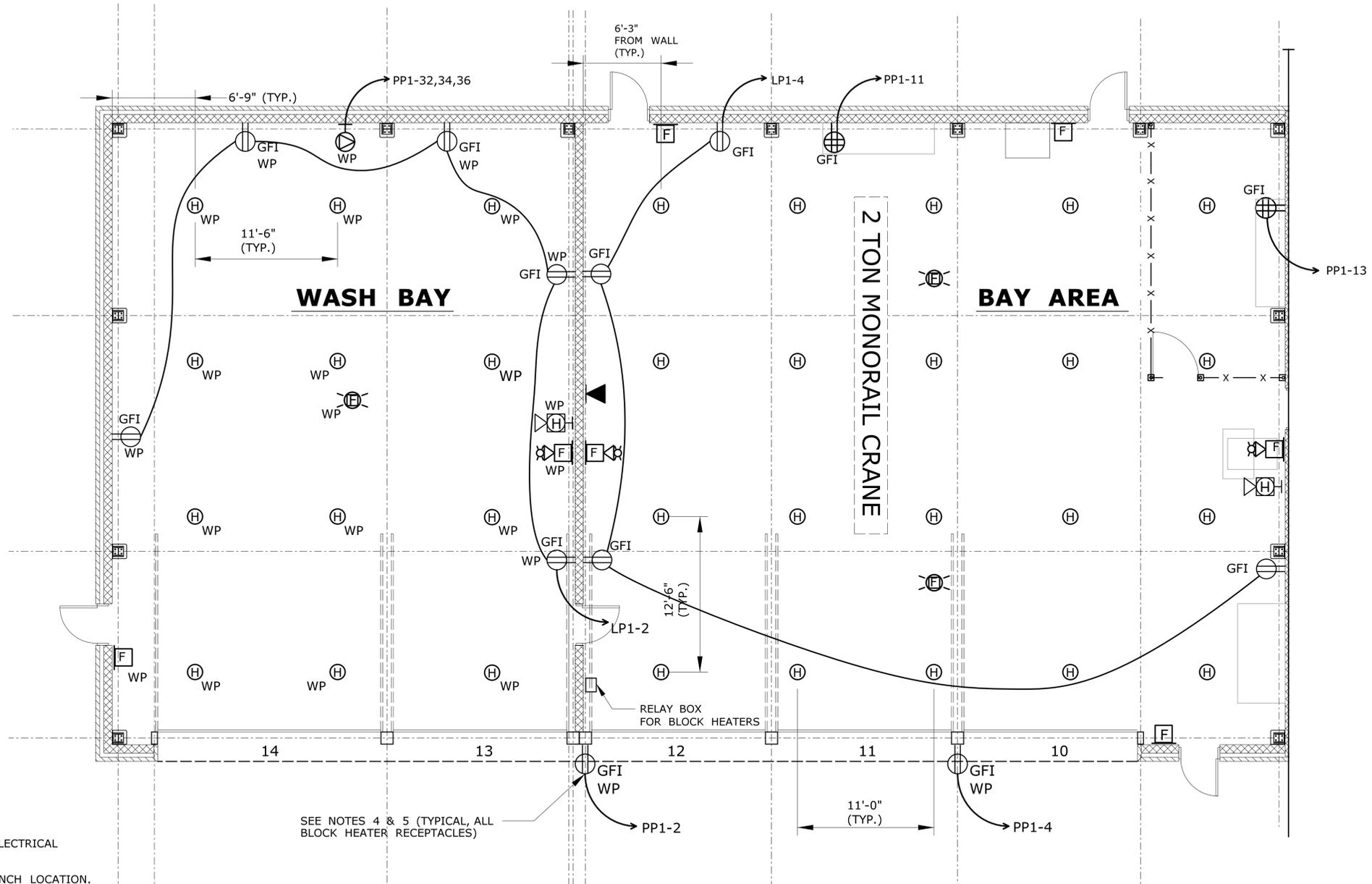
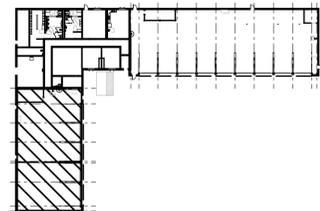
PROJECT TITLE: **POMFRET MAINTENANCE FACILITY**

TOWN: **POMFRET**
 DRAWING TITLE: **WEST BAY AREA LIGHTING PLAN**

PROJECT NO. **111-121**
 DRAWING NO. **E-202**
 SHEET NO. **09.09**



DRAWING KEY:



DRAWING NOTES:

1. REFER TO DRAWING NO. E-900 FOR THE MOUNTING HEIGHT OF ELECTRICAL EQUIPMENT UNLESS OTHERWISE NOTED.
2. PROVIDE (2) DUPLEX RECEPTACLES (4 OUTLETS) AT EACH WORKBENCH LOCATION.
3. ALL ENCLOSURES AND BOXES IN WASH BAY SHALL BE NEMA 4X RATED, SUITABLE FOR WET CONDITIONS.
4. INSTALL BLOCK HEATER RECEPTACLES WITH GFI CIRCUIT BREAKER. BLOCK HEATER RECEPTACLES SHALL BE CONNECTED TO RELAY SWITCHES THAT ACTIVATES THE RECEPTACLE WHEN THE TEMPERATURE DROPS TO A PREDETERMINED LEVEL. BLOCK HEATER RELAY SWITCH SHALL BE CONNECTED TO THE BAS.
5. SEE "COLUMN PENETRATION DETAIL" NO. 6 ON DRAWING E-902 FOR BLOCK HEATER MOUNTING INSTALLATION INFORMATION.
6. MOUNTING HEIGHT OF HEAT DETECTORS IN BAYS SHALL BE 20' EL. (TYPICAL, TO BOTTOM OF JOIST), EXCEPT BETWEEN GARAGE DOORS (15'-6" EL.).

SEE NOTES 4 & 5 (TYPICAL, ALL BLOCK HEATER RECEPTACLES)

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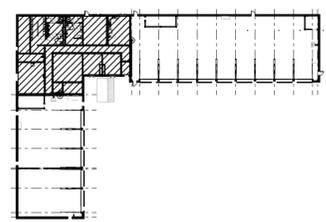
PROJECT TITLE:
POMFRET MAINTENANCE FACILITY

TOWN:
POMFRET
DRAWING TITLE:
NORTH BAY AREA LOW VOLTAGE PLAN

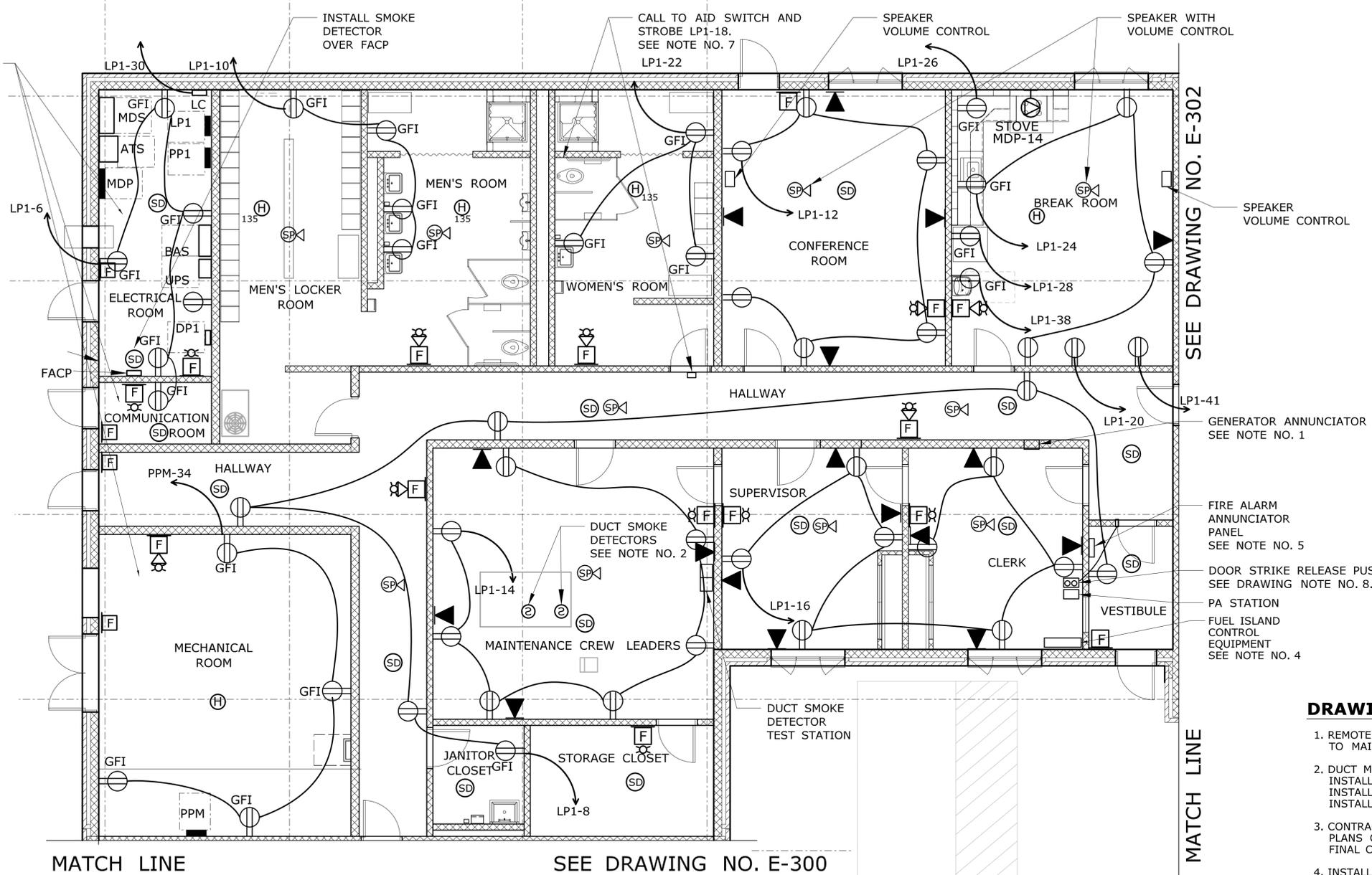
PROJECT NO.:
111-121
DRAWING NO.:
E-300
SHEET NO.:
09.10



DRAWING KEY:



SEE DRAWING NO. E-500 FOR ADDITIONAL MECHANICAL, ELECTRICAL, AND COMMUNICATION ROOM DETAILS.



SEE DRAWING NO. E-302

MATCH LINE

DRAWING NOTES:

1. REMOTE GENERATOR ANNUNCIATOR SHALL BE FLUSH MOUNTED. INSTALL TO MAINTAIN FIRE RATING OF WALL.
2. DUCT MOUNTED SMOKE DETECTORS TO BE INSTALLED BY MECHANICAL INSTALLER, AND FURNISHED, WIRED, AND CONNECTED BY THE ELECTRICAL INSTALLER. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INSTALLATION AND EXACT LOCATION INFORMATION.
3. CONTRACTOR SHALL RUN ALL PHONE AND DATA CABLE AS REQUIRED ON PLANS OR AS DIRECTED BY ENGINEER. CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS UNDER CONNDOT SUPERVISION.
4. INSTALL TANK MONITORING SYSTEM. SEE DRAWING NO. E-601 FOR ADDITIONAL INFORMATION ON THE TANK MONITORING SYSTEM.
5. MOUNT FRAMED BUILDING LAYOUT DRAWING WITH FIRE ALARM DEVICE LOCATIONS CLEARLY INDICATED ADJACENT TO SURFACE MOUNTED FIRE ALARM ANNUNCIATOR PANEL. FIRE ALARM INSTALLER SHALL SUPPLY SUBJECT DRAWING.
6. REFER TO DRAWING NO. E-900 FOR THE MOUNTING HEIGHT OF ELECTRICAL EQUIPMENT UNLESS OTHERWISE NOTED.
7. INSTALL CALL TO AID SYSTEM IN THE BATHROOM. INSTALL PULL CORD SWITCH IN BATHROOM AS SHOWN AND THE LIGHT STROBE/HORN ABOVE THE BATHROOM DOOR ON THE HALL SIDE. REFER TO DETAIL NO. 1 ON DRAWING NO. E-900 FOR MOUNTING HEIGHT INFORMATION.
8. INSTALL DOOR STRIKE PUSHBUTTON INSIDE CLERK OFFICE, CONVENIENT TO CLERK'S DESK AND IN DIRECT SIGHT LINE OF THE VISITOR CHECK-IN WINDOW. PROVIDE AND INSTALL ALL NECESSARY WIRING, AND COMPLETE ALL CONNECTIONS IN ACCORDANCE WITH DOOR STRIKE MANUFACTURER'S RECOMMENDATIONS. DOOR STRIKE SHALL CONTROL INSIDE ENTRY DOOR.

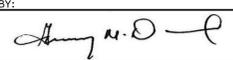
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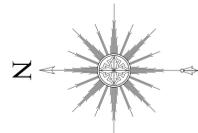


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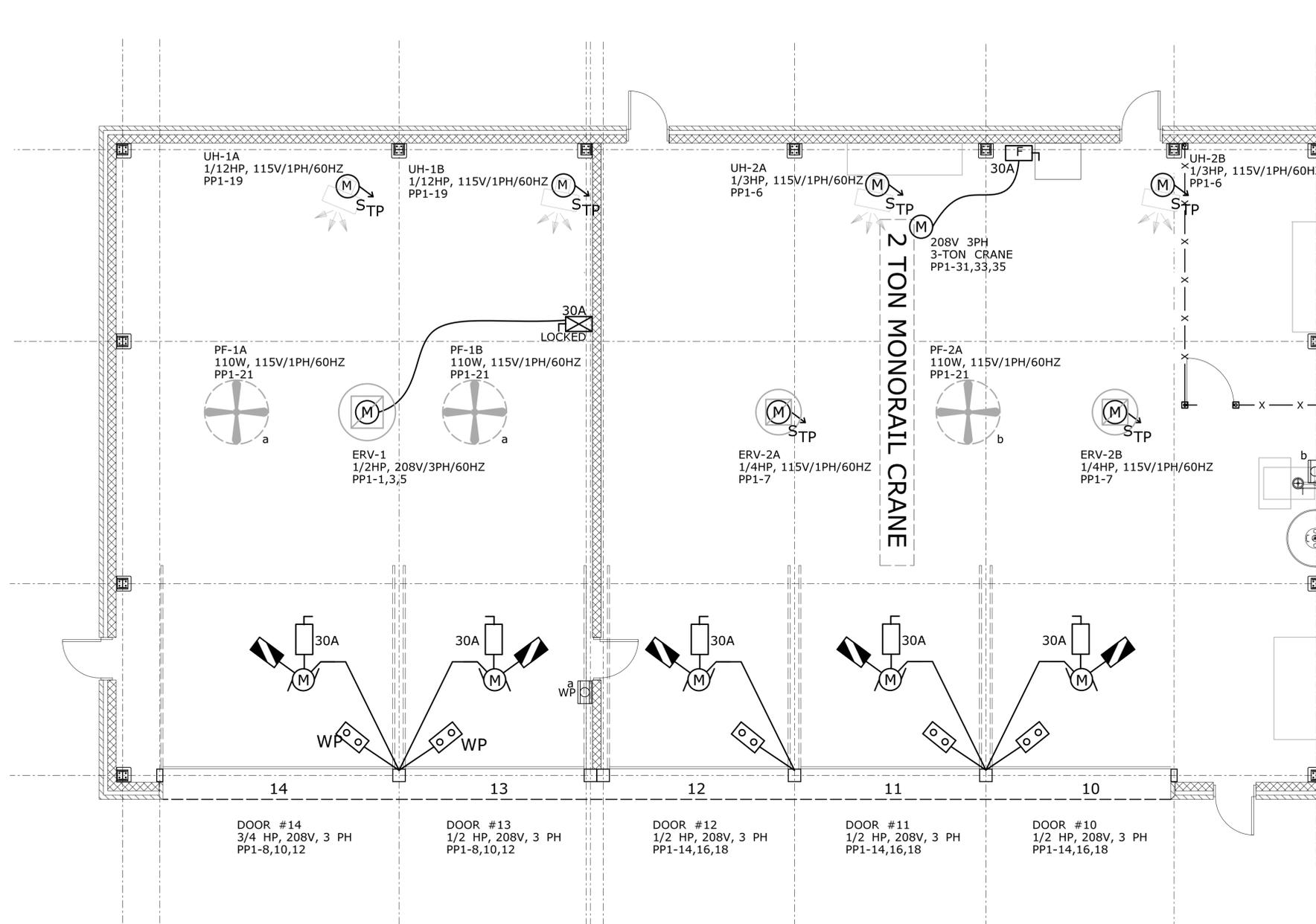
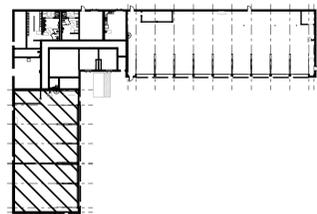
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APPROVED BY:


PROJECT TITLE:
POMFRET MAINTENANCE FACILITY

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| TOWN: POMFRET | PROJECT NO. 111-121 |
| DRAWING TITLE: OFFICE AREA LOW VOLTAGE PLAN | DRAWING NO. E-301 |
| | SHEET NO. 09.11 |



DRAWING KEY:



SEE DRAWING NO. E-401

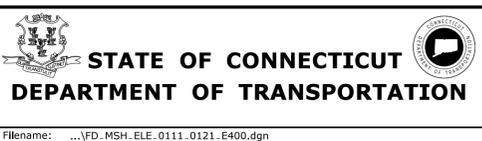
MATCH LINE

DRAWING NOTES:

1. SEE MECHANICAL SHEETS FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT.
2. SAFETY DISCONNECT SWITCHES FOR ROOF FANS SHALL BE PROVIDED BY FAN MANUFACTURER IN ACCORDANCE TO SPECIFICATION NO. 233423.
3. CONTRACTOR SHALL INSULATE BEHIND DOOR OPERATOR PUSH BUTTONS WHEN MOUNTED ON COLUMNS.
4. ALL CONTROL WIRING, PUSH-BUTTONS, DOOR CONTACTS ETC. FOR MOTORIZED OVERHEAD DOORS SHALL BE INSTALLED AND WIRED PER MANUFACTURER'S SPECIFICATIONS.
5. REFER TO DRAWING NO. E-900 FOR THE MOUNTING HEIGHT OF ALL ELECTRICAL EQUIPMENT UNLESS OTHERWISE NOTED.
6. OVERHEAD DOOR MOTOR SIZE SUBJECT TO CHANGE PER DOOR MANUFACTURER'S SPECIFICATIONS.
7. ALL DOOR OPERATOR MOTORS SHALL BE INSTALLED SIDE MOUNTED OVER DOOR CONTROL.
8. WIRE ALL GARAGE DOORS FOR OPERATOR TO CONSTANTLY PUSH THE PUSHBUTTON TO CLOSE THE DOOR.

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. | Plotted Date: 8/3/2015 |
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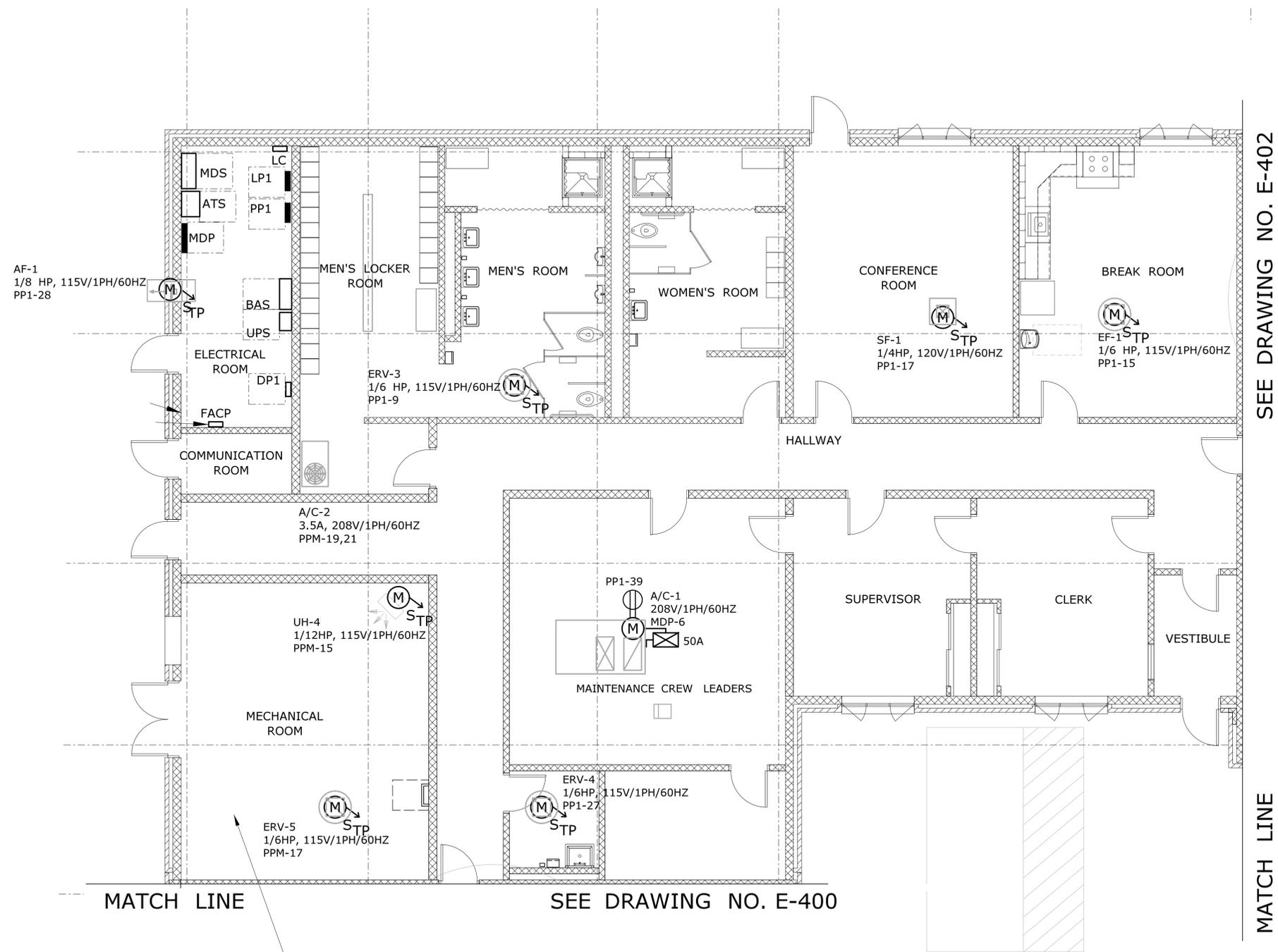
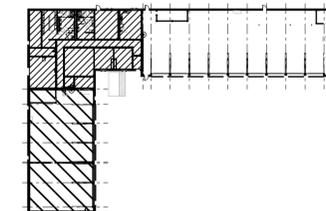
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 APPROVED BY: *[Signature]*

PROJECT TITLE: **POMFRET MAINTENANCE FACILITY**

TOWN: **POMFRET**
 DRAWING TITLE: **NORTH BAY AREA MECHANICAL POWER**

PROJECT NO. **111-121**
 DRAWING NO. **E-400**
 SHEET NO. **09.13**

DRAWING KEY:



SEE DRAWING NO. E-402

MATCH LINE

DRAWING NOTES:

1. SEE MECHANICAL SHEETS FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT.
2. SAFETY DISCONNECT SWITCHES FOR ROOF FANS SHALL BE PROVIDED BY FAN MANUFACTURER IN ACCORDANCE TO SPECIFICATION NO. 233423.
3. REFER TO DRAWING NO. E-900 FOR THE MOUNTING HEIGHT OF ALL ELECTRICAL EQUIPMENT UNLESS OTHERWISE NOTED.

MATCH LINE

SEE DRAWING NO. E-400

REFER TO DRAWING NO. E-500 FOR ALL MECHANICAL ROOM MOTOR INFORMATION.

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

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PROJECT TITLE: **POMFRET MAINTENANCE FACILITY**

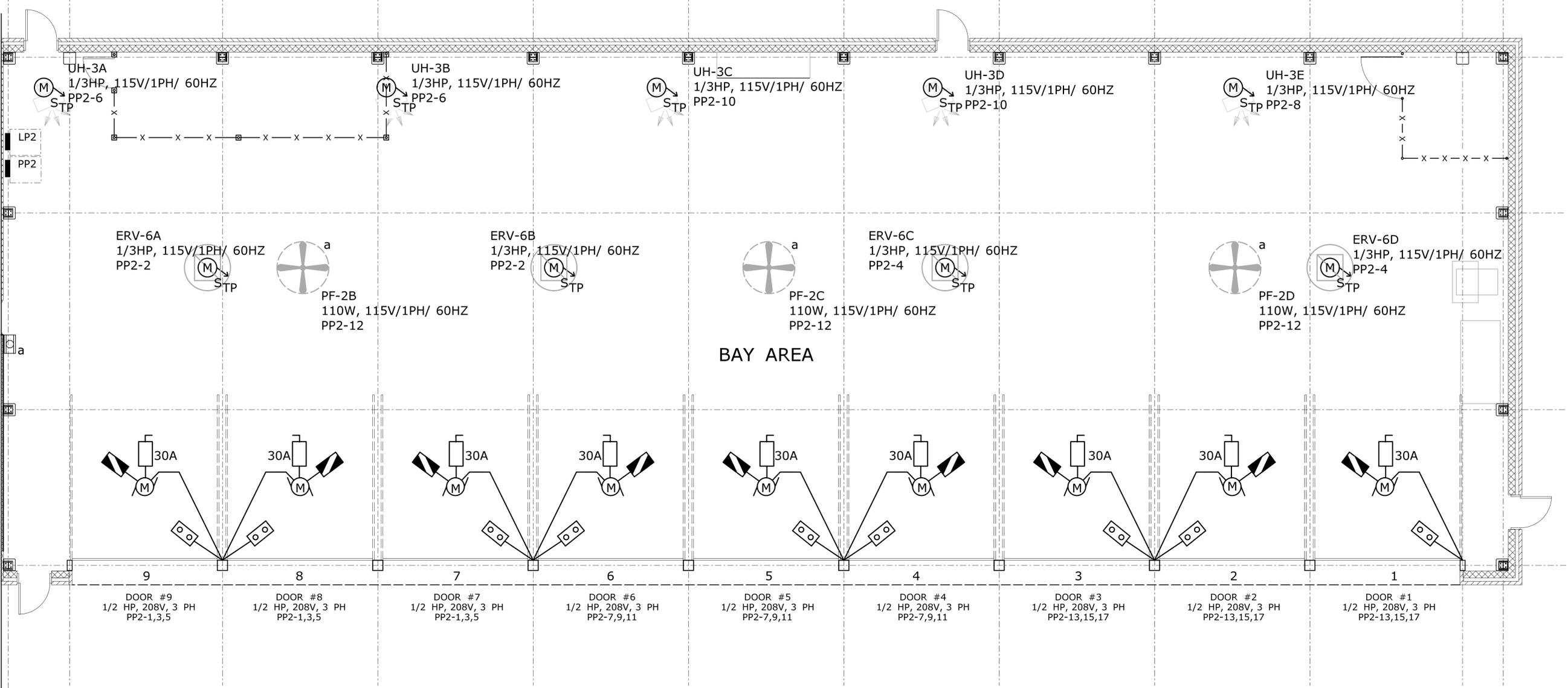
TOWN: **POMFRET**
 DRAWING TITLE: **OFFICE AREA MECHANICAL POWER PLAN**

PROJECT NO.: **111-121**
 DRAWING NO.: **E-401**
 SHEET NO.: **09.14**

Filename: ...FD_MSH_ELE.0111.0121_E401.dgn

SEE DRAWING NO. E-401

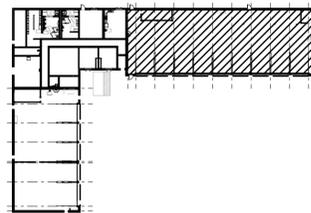
MATCH LINE



DRAWING NOTES:

1. SEE MECHANICAL SHEETS FOR EXACT LOCATION OF ALL MECHANICAL EQUIPMENT.
2. SAFETY DISCONNECT SWITCHES FOR ROOF FANS SHALL BE PROVIDED BY FAN MANUFACTURER IN ACCORDANCE TO SPECIFICATION NO. 233423.
3. CONTRACTOR SHALL INSULATE BEHIND DOOR OPERATOR PUSH BUTTONS WHEN MOUNTED ON COLUMNS.
4. ALL CONTROL WIRING, PUSH-BUTTONS, DOOR CONTACTS ETC. FOR MOTORIZED OVERHEAD DOORS SHALL BE INSTALLED AND WIRED PER MANUFACTURER'S SPECIFICATIONS.
5. REFER TO DRAWING NO. E-900 FOR THE MOUNTING HEIGHT OF ALL ELECTRICAL EQUIPMENT UNLESS OTHERWISE NOTED.
6. OVERHEAD DOOR MOTOR SIZE SUBJECT TO CHANGE PER DOOR MANUFACTURER'S SPECIFICATIONS.
7. ALL DOOR OPERATOR MOTORS SHALL BE INSTALLED SIDE MOUNTED OVER DOOR CONTROL.
8. WIRE ALL GARAGE DOORS FOR OPERATOR TO CONSTANTLY PUSH THE PUSHBUTTON TO CLOSE DOOR.

DRAWING KEY:



| REV. | DATE | REVISION DESCRIPTION | SHEET NO. | Plotted Date: 8/3/2015 |
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APPROVED BY:
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PROJECT TITLE:
POMFRET MAINTENANCE FACILITY

TOWN:
POMFRET
DRAWING TITLE:
WEST BAY AREA MECHANICAL POWER

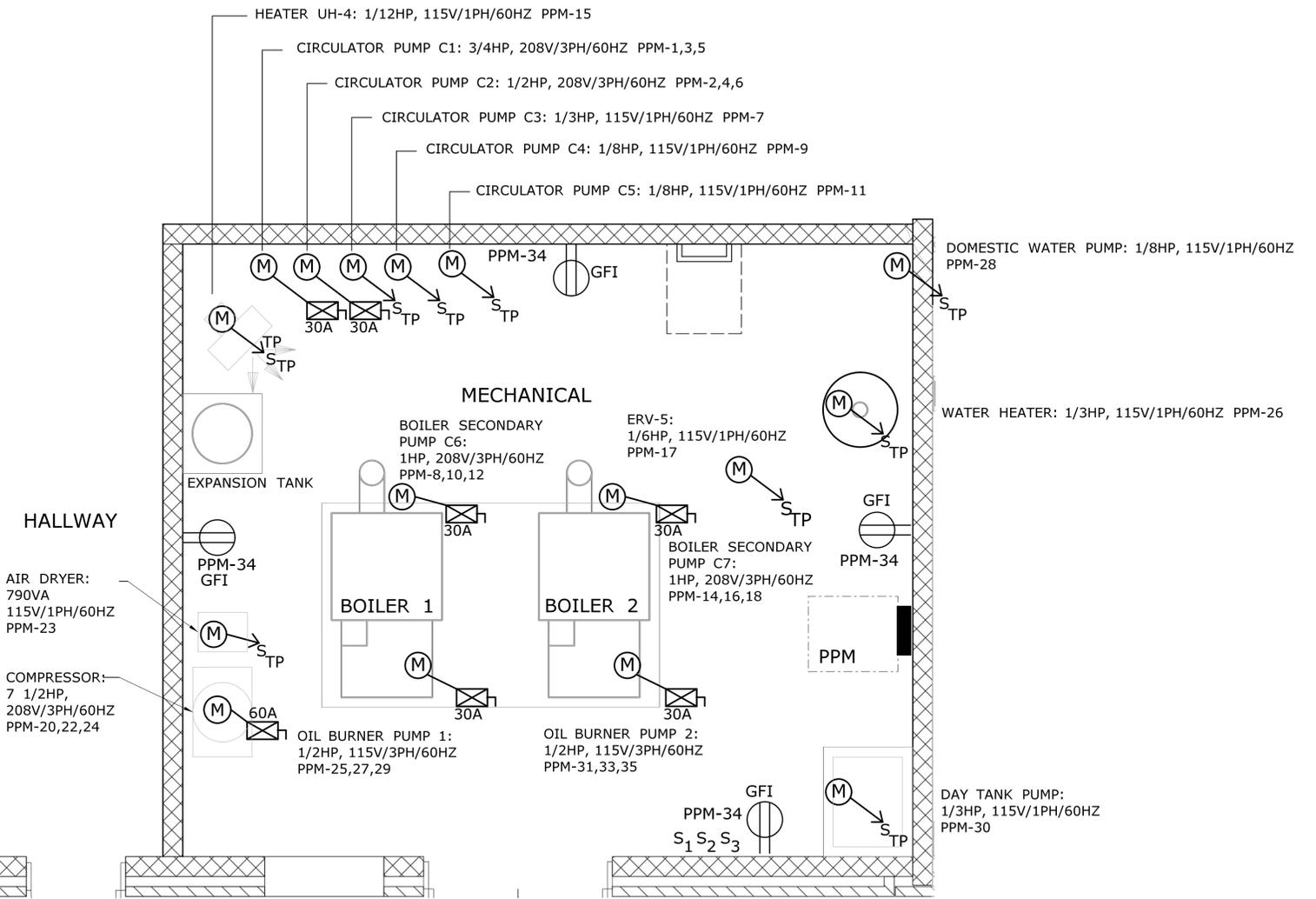
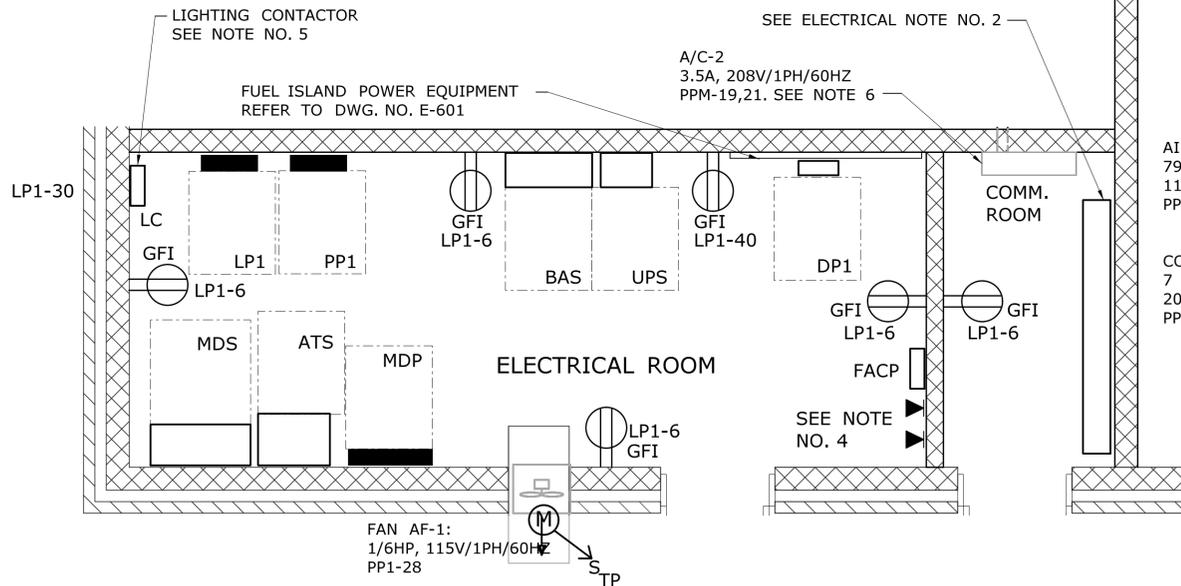
PROJECT NO.
111-121
DRAWING NO.
E-402
SHEET NO.
09.15

MECHANICAL ROOM NOTES:

- SEE MECHANICAL SHEETS FOR EXACT LOCATION OF ALL MECHANICAL APPURTENANCES.
- SEE DRAWING NO. E-201 FOR LIGHT FIXTURE LOCATIONS.
- PROVIDE HAND/OFF/AUTO SWITCHES FOR ALL 3 PHASE MOTOR STARTERS.
- SUBMITTED EQUIPMENT SHALL BE PROVIDED WITH DISCONNECTING MEANS AS REQUIRED.
- INSTALL EMERGENCY SHUT OFF SWITCHES FOR THE BOILERS AND WATER HEATER.
POWER OFF SWITCHES:
S1 BOILER 1
S2 BOILER 2
S3 WATER HEATER

ELECTRICAL/COMM ROOM NOTES:

- FIRE RETARDANT PLYWOOD SHALL BE PAINTED BLACK AND INSTALLED IN ALL ELECTRICAL AND COMM ROOM WALLS FROM 2' TO 8' AFF.
- REFER TO DRAWING NO. E-901 FOR COMMUNICATION DETAILS.
- THE CONTRACTOR SHALL FURNISH AND INSTALL #6 AWG. GND. CONDUCTOR IN 3/4" RGSC CONDUIT FROM MDP GROUND BAR TO COMMUNICATION BACKBOARD. REFER TO DRAWING NO. E-111.
- INSTALL TWO (2) RJ31X TELEPHONE RECEPTACLES IN THE PROXIMITY OF THE DIALER FOR FIRE ALARM DEDICATED PHONE LINES.
- INSTALL CONTROL FOR SITE LIGHTING. CONTACTOR SWITCH SHALL BE TWO POSITION TYPE ("MANUAL" AND "AUTO"). ATTACH PHOTO EYE TO EXTERIOR OF BUILDING ABOVE THE ROOF LINE WITHOUT PENETRATING ROOF. PHOTO EYE SHALL FACE NORTH.



FINAL DESIGN REVIEW

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
|------|------|----------------------|-----------|
| - | - | - | - |
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| - | - | - | - |
| - | - | - | - |
| - | - | - | - |

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER:
FC
CHECKED BY:
JMK
SCALE 3/8" = 1'-0"



SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:
[Signature]

PROJECT TITLE:
POMFRET MAINTENANCE FACILITY

TOWN:
POMFRET
DRAWING TITLE:
ELECTRICAL/MECHANICAL ROOM DETAILS

PROJECT NO.
111-121
DRAWING NO.
E-500
SHEET NO.
09.16

MAINTENANCE FACILITY POWER PANEL "LP1"

| CKT. NO. | DIRECTORY | LOAD (VA) | | | TRIP (A) | TRIP (A) | LOAD (VA) | | | DIRECTORY | CKT. NO. | |
|----------|--------------------------|-----------|------|-----|----------|----------|-----------|----|------|-----------|--------------------------|----|
| | | LA | LB | LC | | | LA | LB | LC | | | |
| 1 | WASH BAYS LT | 1067 | | | 20 | | | | 900 | 720 | WASH BAY REC | 2 |
| 3 | BAY AREA/TOOL STOR. LT | | 1188 | | 20 | | | | | | BAY AREA/TOOL STOR REC | 4 |
| 5 | ELEC/COMM/MECH. LT | | | 318 | 20 | | | | | 900 | ELEC/COMM REC | 6 |
| 7 | CORRIDORS/VEST. LT | 448 | | | 20 | | | | 1080 | | CORRIDORS/VEST./JAN. REC | 8 |
| 9 | MEN'S AND WOMAN'S LT | | 492 | | 20 | | | | 720 | | MEN'S REC | 10 |
| 11 | CONFERENCE/BREAK LT | | | 427 | 20 | | | | 900 | | CONFERENCE. REC | 12 |
| 13 | MAINT.CREW/CLOST./JAN LT | 374 | | | 20 | | | | 1260 | | MAINT.CREW REC | 14 |
| 15 | SUPERVISOR/CLERK LT | | 289 | | 20 | | | | 1440 | | SUPERVISOR/CLERK REC | 16 |
| 17 | WALLPACK OFFICE/BAYS LT | | | 376 | 20 | | | | 360 | | CALL TO AID/DOOR STRIKE | 18 |
| 19 | WALLPACK BAYS LT | 329 | | | 20 | | | | 180 | | VENDING MACHINE REC. | 20 |
| 21 | SPARE | | | | 20 | | | | 540 | | WOMEN'S REC | 22 |
| 23 | POLE LT | | | 669 | 20 | | | | 720 | | BREAK ROOM REC | 24 |
| 25 | SPARE | | | | 20 | | | | 180 | | MICROWAVE REC | 26 |
| 27 | SPARE | | | | 20 | | | | 180 | | REFRIGIREATOR REC | 28 |
| 29 | SPARE | | | | 20 | | | | 180 | | LIGHTING CONTACTOR | 30 |
| 31 | SPARE | | | | 20 | | | | | | SPARE | 32 |
| 33 | SPARE | | | | 20 | | | | 540 | | COMM. ROOM REC | 34 |
| 35 | SPARE | | | | 20 | | | | 540 | | FACP | 36 |
| 37 | SPARE | | | | 20 | | | | 180 | | WATER COOLER | 38 |
| 39 | SPARE | | | | 20 | | | | 180 | | BAS/UPS | 40 |
| 41 | VENDING MACHINE REC. | | | 180 | 20 | | | | 360 | | COMM. ROOM REC | 42 |

SERVICE CHARACTERISTICS

42-CIRCUIT PANEL
120 / 208 V, 3 PH., 4 WIRE, SOLID NEUTRAL
60 CYCLE, WITH GROUND BUS
100 AMP MAIN BUS
MAIN LUGS ONLY
42 KAIC MIN.
SURFACE MOUNTING

| A | B | C | |
|--------|------|------|-------------------|
| 6.00 | 6.29 | 5.93 | KVA |
| 50.0 | 52.4 | 49.4 | AMPS |
| 18.215 | | | TOTAL LOAD IN KVA |

ENCLOSURE : NEMA 1
LOCATION: ELEC. ROOM
FED FROM MDP

MAINTENANCE FACILITY POWER PANEL "PP1"

| CKT. NO. | DIRECTORY | LOAD (VA) | | | TRIP (A) | TRIP (A) | LOAD (VA) | | | DIRECTORY | CKT. NO. | |
|----------|-----------------------------|-----------|------|------|----------|----------|-----------|----|------|-----------|---------------------------|----|
| | | LA | LB | LC | | | LA | LB | LC | | | |
| 1 | | 288 | | | 20 | | | | 1500 | | BLOCK HEATER 13-12 | 2 |
| 3 | ERV-1 (1/2 HP) | | 288 | | 20 | | | | 1500 | | BLOCK HEATER 11-10 | 4 |
| 5 | | | | 288 | 20 | | | | 2126 | | UH-2(A), UH-2(B) (1/3 HP) | 6 |
| 7 | ERV-2(A), ERV-2(B) (1/4 HP) | 1392 | | | 20 | | | | 709 | | | 8 |
| 9 | ERV-3 (1/6 HP) | | 528 | | 20 | | | | 709 | | WASH DOOR14,13 (1/2 HP) | 10 |
| 11 | WORK BENCH REC. | | | 360 | 20 | | | | 709 | | | 12 |
| 13 | WORK BENCH REC. | 360 | | | 20 | | | | 865 | | | 14 |
| 15 | EF-1 (1/6 HP) | | 528 | | 20 | | | | 865 | | BAY DOOR12,11,10 (1/2 HP) | 16 |
| 17 | SF-1 (1/4 HP) | | | 696 | 20 | | | | 865 | | | 18 |
| 19 | UH-1(A), UH-1(B) (1/12 HP) | 528 | | | 20 | | | | 180 | | GEN RECEPTACLE | 20 |
| 21 | PF-1A, PF-1B, PF-2A (110W) | | 330 | | 20 | | | | 120 | | GEN BATT CHARGER | 22 |
| 23 | SPARE | | | | 20 | | | | 1200 | | GEN BLOCK HEATER | 24 |
| 25 | SPARE | | | | 20 | | | | | | SPARE | 26 |
| 27 | ERV-4 (1/6 HP) | | 528 | | 20 | | | | 348 | | AF-1 (1/8 HP) | 28 |
| 29 | SPARE | | | | 20 | | | | | | SPARE | 30 |
| 31 | | 2005 | | | 20 | | | | 2906 | | | 32 |
| 33 | 3 TON CRANE (5 HP) | | 2005 | | 30 | | | | 2906 | | POWER WASHER (7 1/2HP) | 34 |
| 35 | | | | 2005 | 20 | | | | 2906 | | | 36 |
| 37 | SPARE | | | | 20 | | | | | | SPARE | 38 |
| 39 | AC ROOF REC. | | 180 | | 20 | | | | | | SPARE | 40 |
| 41 | SPARE | | | | 20 | | | | | | SPARE | 42 |

SERVICE CHARACTERISTICS

42-CIRCUIT PANEL
120 / 208 V, 3 PH., 4 WIRE, SOLID NEUTRAL
60 CYCLE, WITH GROUND BUS
225 AMP MAIN BUS
MAIN LUGS ONLY
42 KAIC MIN.
SURFACE MOUNTING

| A | B | C | |
|--------|-------|-------|-------------------|
| 10.73 | 10.84 | 11.15 | KVA |
| 89.4 | 90.3 | 93.0 | AMPS |
| 32.723 | | | TOTAL LOAD IN KVA |

ENCLOSURE : NEMA 1
LOCATION: ELEC. ROOM
FED FROM MDP

GENERAL NOTES:

- 1) BREAKER SIZES SUBJECT TO CHANGE UPON THE SUBMITTAL AND ACCEPTANCE OF "OR EQUAL" EQUIPMENT SUBMITTED BY THE CONTRACTOR. CIRCUIT BREAKERS SHALL BE RESIZED TO MEET EQUIPMENT MANUFACTURERS SPECIFICATIONS OF SPECIFIC EQUIPMENT THAT DOES NOT MEET THE DESIGN SPECIFICATION. ADJUSTMENT OF BREAKER SIZES SHALL BE COORDINATED WITH AND APPROVED BY THE DESIGNER. CHANGES IN BREAKER SIZE AS A RESULT OF "OR EQUAL" EQUIPMENT SUPPLIED BY THE CONTRACTOR SHALL BE AT THE CONTRACTOR'S EXPENSE.
- 2) ALL BRANCH CIRCUIT BREAKERS SHALL BE RATED 22KAIC MINIMUM.

MAINTENANCE FACILITY POWER PANEL "PP2"

| CKT. NO. | DIRECTORY | LOAD (VA) | | | TRIP (A) | TRIP (A) | LOAD (VA) | | | DIRECTORY | CKT. NO. |
|----------|--------------------------|-----------|-----|-----|----------|----------|-----------|-----|-----------------------------|-----------|----------|
| | | LA | LB | LC | | | LA | LB | LC | | |
| 1 | | 865 | | | 25 | 1728 | | | ERV-6(A), ERV-6(B) (1/3 HP) | 2 | |
| 3 | BAY DOOR 9,8,7 (1/2 HP) | | 865 | | 25 | | 1728 | | ERV-6(C), ERV-6(D) (1/3 HP) | 4 | |
| 5 | | | | 865 | 25 | | 1728 | | UH-3A, UH-3B (1/3 HP) | 6 | |
| 7 | | 865 | | | 20 | | 864 | | UH-3E (1/3HP) | 8 | |
| 9 | BAY DOORS 6,5,4 (1/2 HP) | | 865 | | 25 | | 1728 | | UH-3C, UH-3D (1/3 HP) | 10 | |
| 11 | | | | 865 | 20 | | | 330 | PF-2(B), PF-2(C), PF-2(D) | 12 | |
| 13 | | 865 | | | 20 | | 901 | | | 14 | |
| 15 | BAY DOORS 3,2,1 (1/2 HP) | | 865 | | 20 | | 901 | | WELL PUMP | 16 | |
| 17 | | | | 865 | 20 | | | 901 | | 18 | |
| 19 | SPARE | | | | 20 | | 901 | | | 20 | |
| 21 | SPARE | | | | 20 | | | 901 | WELL TANK PUMP | 22 | |
| 23 | SPARE | | | | 30 | | | 901 | | 24 | |
| 25 | SPARE | | | | 20 | | | | SPARE | 26 | |
| 27 | SPARE | | | | 20 | | | | SPARE | 28 | |
| 29 | SPARE | | | | 20 | | | | SPARE | 30 | |
| 31 | SPARE | | | | 20 | | | | SPARE | 32 | |
| 33 | SPARE | | | | 20 | | | | SPARE | 34 | |
| 35 | SPARE | | | | 20 | | | | SPARE | 36 | |
| 37 | SPARE | | | | 20 | | | | SPARE | 38 | |
| 39 | SPARE | | | | 20 | | | | SPARE | 40 | |
| 41 | SPARE | | | | 20 | | | | SPARE | 42 | |

SERVICE CHARACTERISTICS

42-CIRCUIT PANEL
120 / 208 V, 3 PH., 4 WIRE, SOLID NEUTRAL
60 CYCLE, WITH GROUND BUS
225 AMP MAIN BUS
200 AMP MAIN BREAKER
22 KAIC MIN.
SURFACE MOUNTING

| A | B | C | |
|--------|------|------|-------------------|
| 6.99 | 7.85 | 6.45 | KVA |
| 58.2 | 65.4 | 53.8 | AMPS |
| 21.294 | | | TOTAL LOAD IN KVA |

ENCLOSURE : NEMA 1
LOCATION: WEST BAYS
FED FROM MDP

MAINTENANCE FACILITY POWER PANEL "LP2"

| CKT. NO. | DIRECTORY | LOAD (VA) | | | TRIP (A) | TRIP (A) | LOAD (VA) | | | DIRECTORY | CKT. NO. | |
|----------|-----------------|-----------|-----|------|----------|----------|-----------|----|------|-----------|--------------------|----|
| | | LA | LB | LC | | | LA | LB | LC | | | |
| 1 | BAY 9-8 LT | 977 | | | 20 | | | | 1080 | | BAY 9-7 REC | 2 |
| 3 | BAY 7-5 LT | | 930 | | 20 | | | | 180 | | BAY 9 REC | 4 |
| 5 | BAY 4-1 LT | | | 1267 | 20 | | | | 900 | | BAY 5-1 REC | 6 |
| 7 | SPARE | | | | 20 | | | | 1500 | | BLOCK HEATER 8-7 | 8 |
| 9 | SPARE | | | | 20 | | | | 1500 | | BLOCK HEATER 3-2 | 10 |
| 11 | WORK BENCH REC. | | | 360 | 20 | | | | 360 | | WELL PUMP CONTROLS | 12 |
| 13 | SPARE | | | | 20 | | | | | | SPARE | 14 |
| 15 | SPARE | | | | 20 | | | | | | SPARE | 16 |
| 17 | SPARE | | | | 20 | | | | | | SPARE | 18 |
| 19 | SPARE | | | | 20 | | | | | | SPARE | 20 |
| 21 | SPARE | | | | 20 | | | | | | SPARE | 22 |
| 23 | SPARE | | | | 20 | | | | | | SPARE | 24 |
| 25 | SPARE | | | | 20 | | | | | | SPARE | 26 |
| 27 | SPARE | | | | 20 | | | | | | SPARE | 28 |
| 29 | SPARE | | | | 20 | | | | | | SPARE | 30 |
| 31 | SPARE | | | | 20 | | | | | | SPARE | 32 |
| 33 | SPARE | | | | 20 | | | | | | SPARE | 34 |
| 35 | SPARE | | | | 20 | | | | | | SPARE | 36 |
| 37 | SPARE | | | | 20 | | | | | | SPARE | 38 |
| 39 | SPARE | | | | 20 | | | | | | SPARE | 40 |
| 41 | SPARE | | | | 20 | | | | | | SPARE | 42 |

SERVICE CHARACTERISTICS

42-CIRCUIT PANEL
120 / 208 V, 3 PH., 4 WIRE, SOLID NEUTRAL
60 CYCLE, WITH GROUND BUS
100 AMP MAIN BUS
100 AMP MAIN BREAKER
22 KAIC MIN.
SURFACE MOUNTING

| A | B | C | |
|-------|------|------|-------------------|
| 3.56 | 2.61 | 2.89 | KVA |
| 29.6 | 21.8 | 24.1 | AMPS |
| 9.054 | | | TOTAL LOAD IN KVA |

ENCLOSURE : NEMA 1
LOCATION: WEST BAYS
FED FROM MDP

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
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| - | - | - | - |
| - | - | - | - |
| - | - | - | - |

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER:
FC
CHECKED BY:
JMK



SIGNATURE/
BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:
[Signature]

PROJECT TITLE:
POMFRET MAINTENANCE FACILITY

TOWN:
POMFRET
DRAWING TITLE:
PANEL SCHEDULES - 1

PROJECT NO.
111-121
DRAWING NO.
E-510
SHEET NO.
09.17

MAINTENANCE FACILITY POWER PANEL "PPM"

| CKT. NO. | DIRECTORY | LOAD (VA) | | | TRIP (A) | 200A MAIN | TRIP (A) | LOAD (VA) | | | DIRECTORY | CKT. NO. |
|----------|--------------------------|-----------|-----|-----|----------|-----------|----------|-----------|------|----|------------------------|----------|
| | | LA | LB | LC | | | | LA | LB | LC | | |
| 1 | | 420 | | | | | | 288 | | | | 2 |
| 3 | C1 PUMP (3/4 HP) | | 420 | | 20 | | | 288 | | | C2 PUMP (1/2 HP) | 4 |
| 5 | | | | 420 | | | | | 288 | | | 6 |
| 7 | C3 PUMP (1/3 HP) | 864 | | | 20 | | | 552 | | | | 8 |
| 9 | C4 PUMP (1/8 HP) | | 348 | | 20 | | | 552 | | | C6 PUMP (1/ HP) | 10 |
| 11 | C5 PUMP (1/8 HP) | | | 348 | 20 | | | | 552 | | | 12 |
| 13 | SPARE | | | | 20 | | | 552 | | | | 14 |
| 15 | UH-4 (1/12 HP) | | 264 | | 20 | | | 552 | | | C7 PUMP (1/ HP) | 16 |
| 17 | ERV-5 (1/6 HP) | | | 528 | 20 | | | | 552 | | | 18 |
| 19 | AC-2 | 364 | | | 20 | | | 2906 | | | | 20 |
| 21 | | | 364 | | | | | 2906 | | | COMPRESSOR (7 1/2HP) | 22 |
| 23 | AIR DRYER | | | 790 | 20 | | | | 2906 | | | 24 |
| 25 | | 288 | | | | | | 864 | | | WATER HEATER (1/3 HP) | 26 |
| 27 | BOILER BURNER 1 (1/2 HP) | | 288 | | 20 | | | 348 | | | DOM. WATER P. (1/8 HP) | 28 |
| 29 | | | | 288 | | | | 864 | | | DAY TANK PUMP (1/3 HP) | 30 |
| 31 | | 288 | | | | | | | | | SPARE | 32 |
| 33 | BOILER BURNER 2 (1/2 HP) | | 288 | | 20 | | | 720 | | | MECH. ROOM REC. | 34 |
| 35 | | | | 288 | | | | | | | SPARE | 36 |
| 37 | SPARE | | | | 20 | | | | | | SPARE | 38 |
| 39 | SPARE | | | | 20 | | | | | | SPARE | 40 |
| 41 | SPARE | | | | 20 | | | | | | SPARE | 42 |

SERVICE CHARACTERISTICS

42-CIRCUIT PANEL
120 / 208 V, 3 PH., 4 WIRE, SOLID NEUTRAL
60 CYCLE, WITH GROUND BUS
225 AMP MAIN BUS
200 AMP MAIN BREAKER
22 KAIC MIN.
SURFACE MOUNTING

| A | B | C | |
|--------|------|------|-------------------|
| 7.39 | 7.34 | 7.83 | KVA |
| 61.6 | 61.2 | 65.2 | AMPS |
| 22.554 | | | TOTAL LOAD IN KVA |

ENCLOSURE : NEMA 1
LOCATION: MECHANICAL ROOM
FED FROM MDP

BRANCH CIRCUIT BREAKERS SHALL BE RATED 22 KAIC MINIMUM

MAINTENANCE FACILITY POWER PANEL "MDP"

| CKT. NO. | DIRECTORY | LOAD (KVA) | | | TRIP (A) | 400A MAIN | TRIP (A) | LOAD (KVA) | | | DIRECTORY | CKT. NO. |
|----------|--------------------|------------|-------|-------|----------|-----------|----------|------------|------|------|-----------|----------|
| | | LA | LB | LC | | | | LA | LB | LC | | |
| 1 | PANEL LP1 | 6.00 | | | 100 | | | 3.56 | 2.61 | | PANEL LP2 | 2 |
| | | | 6.29 | | | | | | | 2.89 | | |
| | | | | 5.93 | | | | | 6.99 | | | |
| 3 | PANEL PP1 | 10.73 | | | 200 | | | 7.85 | | | PANEL PP2 | 4 |
| | | | 10.84 | | | | | | | 6.45 | | |
| | | | | 11.15 | | | | | 4.98 | | | |
| 5 | PANEL PPM | 7.39 | | | 200 | | | 4.98 | | | AC-1 | 6 |
| | | | 7.34 | | | | | 4.98 | | 4.98 | | |
| 7 | PANEL DP-1 | 3.63 | | | 50 | | | 3.60 | 3.60 | | SALT SHED | 8 |
| | | | 3.67 | | | | | 3.60 | | | | |
| 9 | BLOCK HEATER PANEL | | | 6.75 | 100 | | | | | | SPACE | 10 |
| | | 6.75 | | | | | | | | | | |
| 11 | SPARE | | | | 200 | | | | | | SPARE | 12 |
| | | | | | | | | | | | | |
| | SPACE | | | | | | | 40 | 4.00 | | STOVE | 14 |
| | | | | | | | | | 4.00 | | | |
| | SPACE | | | | | | | | | | SPACE | |

SERVICE CHARACTERISTICS

MDP PANEL
120 / 208 V, 3 PH., 4 WIRE, SOLID NEUTRAL
60 CYCLE, WITH GROUND BUS
400 AMP MAIN BUS
400 AMP MAIN BREAKER
42 KAIC MIN.
SURFACE MOUNTING

| A | B | C | |
|---------|-------|-------|-------------------|
| 53.62 | 51.18 | 49.98 | KVA |
| 446.9 | 426.5 | 416.5 | AMPS |
| 154.778 | | | TOTAL LOAD IN KVA |

ENCLOSURE : NEMA 1
LOCATION: ELECTRICAL ROOM
FED FROM ATS

BRANCH CIRCUIT BREAKERS SHALL BE RATED 42 KAIC MINIMUM

GENERAL NOTE:

BREAKER SIZES SUBJECT TO CHANGE UPON THE SUBMITTAL AND ACCEPTANCE OF "OR EQUAL" EQUIPMENT SUBMITTED BY THE CONTRACTOR. CIRCUIT BREAKERS SHALL BE RESIZED TO MEET EQUIPMENT MANUFACTURERS SPECIFICATIONS OF SPECIFIC EQUIPMENT THAT DOES NOT MEET THE DESIGN SPECIFICATION. ADJUSTMENT OF BREAKER SIZES SHALL BE COORDINATED WITH AND APPROVED BY THE DESIGNER. CHANGES IN BREAKER SIZE AS A RESULT OF "OR EQUAL" EQUIPMENT SUPPLIED BY THE CONTRACTOR SHALL BE AT THE CONTRACTOR'S EXPENSE.

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
|------|------|----------------------|-----------|
| - | - | - | - |
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| - | - | - | - |
| - | - | - | - |
| - | - | - | - |

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER:
FC
CHECKED BY:
JMK

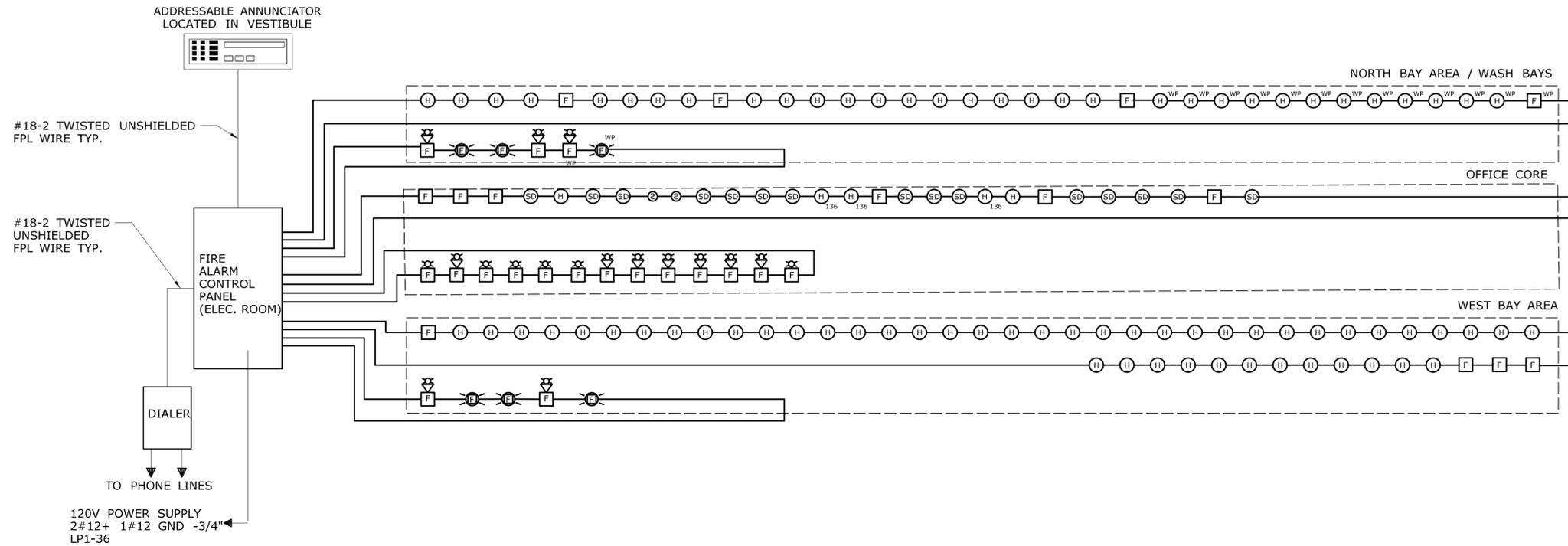


SIGNATURE/
BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:
[Signature]

PROJECT TITLE:
POMFRET MAINTENANCE FACILITY

TOWN:
POMFRET
DRAWING TITLE:
PANEL SCHEDULES - 2

PROJECT NO.
111-121
DRAWING NO.
E-511
SHEET NO.
09.18



FIRE ALARM DIAGRAM 1
SCALE: NTS **E-530**

NOTES:

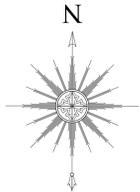
1. BASIS OF DESIGN: THE FOLLOWING NOTIFIER SYSTEM COMPONENTS ARE INTENDED TO BE UTILIZED BY INSTALLER AS A GUIDE:

| NOTIFIER CATALOG NUMBER | DESCRIPTION |
|--|--|
| NFS-320 PS-12180 | ADDRESSABLE FIRE ALARM CONTROL PANEL BATTERY 12 VOLT 18 AMP HOUR |
| FSP-851 FSP-851R | ADDRESSABLE PHOTO-ELECTRIC SMOKE DETECTOR ADDRESSABLE DUCT SMOKE DETECTOR |
| FST-851 FST-851H B210LP DNR FMM-101 FRM-1 DST-3 RTS-151KEY 302AW-135 RTS451 | 136 DEGREE THERMAL DETECTOR 196 DEGREE THERMAL DETECTOR DETECTOR BASE DUCT DETECTOR HOUSING MINI-MONITOR MODULE RELAY MODULE AIR SAMPLING TUBE 2'-4' DUCTS REMOTE TEST/RESET KEYSWITCH 135 F, ALL WEATHER DUCT SMOKE DETECTOR REMOTE TEST STATION |
| NBG-12LX NBG-12LOB | ADDRESSABLE PULL STATION ADDRESSABLE PULL STATION WEATHERPROOF |
| FDU-80 | ADDRESSABLE REMOTE ANNUNCIATOR PANEL |
| SR | STROBE LIGHT |
| P2R SCR P2RK SCRK | AUDIBLE/VISIBLE WITH HORN CEILING MOUNT STROBE AUDIBLE/VISIBLE WITH HORN WEATHERPROOF CEILING MOUNT STROBE WEATHERPROOF |
| UDACT-2 | UNIVERSAL 318-POINT DACT (FOR FUTURE ADT) |
| MCBL-7 | TELEPHONE CORD 7 FOOT |

2. FIRE ALARM WIRING SHALL BE, CLASS "A" ADDRESSABLE. THE RISER DIAGRAM MAY BE USED AS A GUIDE. ACTUAL WIRING SHALL CONFORM WITH MANUFACTURERS SPECIFICATIONS.

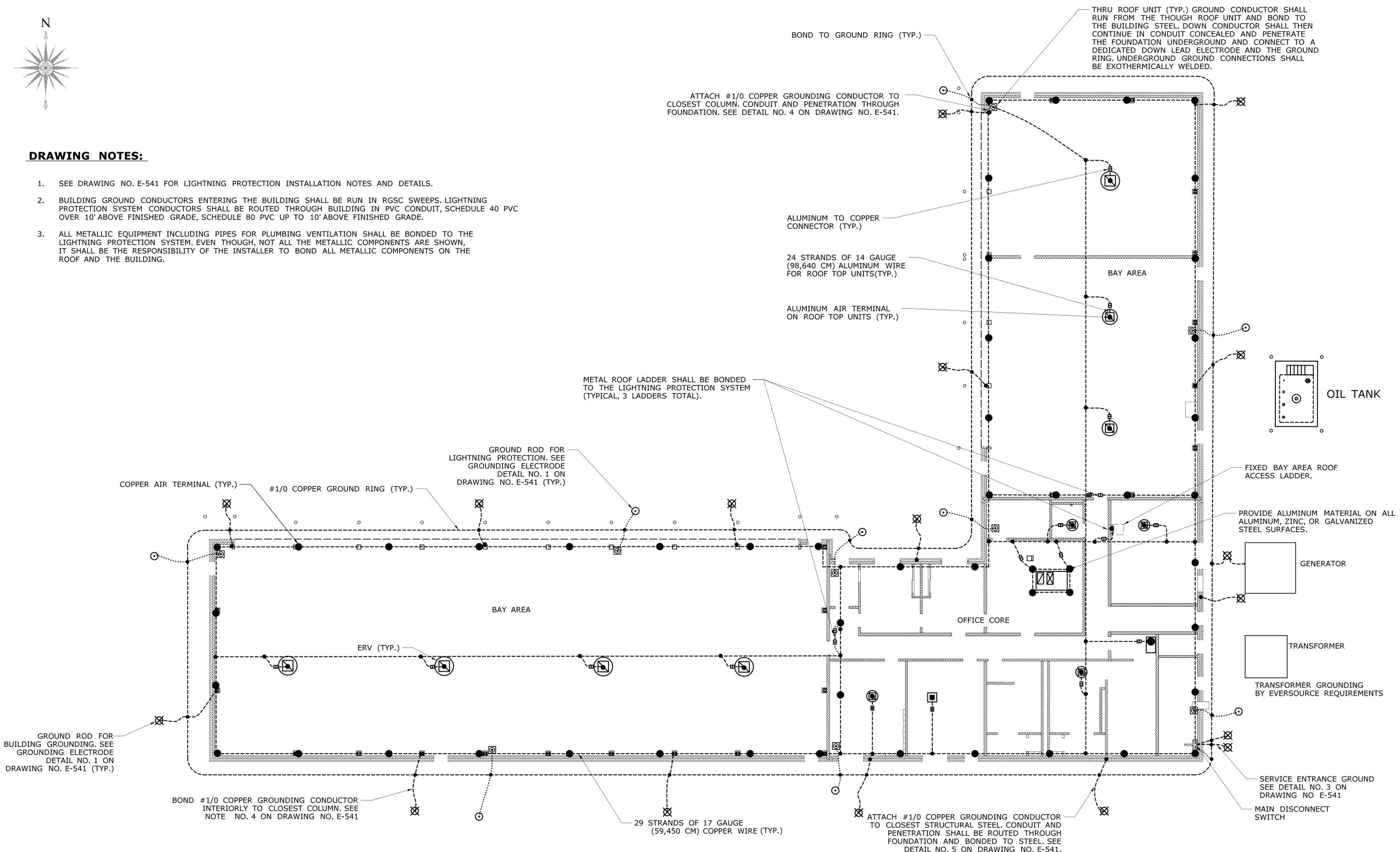
INSTALLATION NOTES:

1. FIRE ALARM SYSTEM SHALL BE FM GLOBAL APPROVED AND SHALL BE INSTALLED IN ACCORDANCE TO FM GLOBAL DATA SHEET 5-40 AND 5-48.
2. FIRE ALARM SYSTEM APPURTENANCES SHALL COMPLY WITH ADA REQUIREMENTS.
3. WIRING IS DIAGRAMMATIC ONLY. CONSULT WITH FIRE ALARM MANUFACTURER FOR ACTUAL WIRING.
4. THE FIRE ALARM CONTROL PANEL CIRCUIT BREAKER SHALL PAINTED RED AND MARKED "FIRE ALARM". HAND TIES SHALL BE PROVIDED TO KEEP THE BREAKER IN THE "ON" POSITION.
5. REFER TO DRAWING NOS. E-300, E-301, AND E-302 FOR CEILING MOUNTED STROBE LOCATIONS AND NOTES.
6. FIRE ALARM SYSTEM SHALL BE RUN IN A COMPLETELY SEPARATE CONDUIT SYSTEM, INDEPENDENT FROM ALL OTHER SYSTEMS.
7. FIRE ALARM JUNCTION BOXES AND ENDS OF CONDUITS SHALL BE COLOR CODED RED.



DRAWING NOTES:

1. SEE DRAWING NO. E-541 FOR LIGHTNING PROTECTION INSTALLATION NOTES AND DETAILS.
2. BUILDING GROUND CONDUCTORS ENTERING THE BUILDING SHALL BE RUN IN RGSC SWEEPS. LIGHTNING PROTECTION SYSTEM CONDUCTORS SHALL BE ROUTED THROUGH BUILDING IN PVC CONDUIT, SCHEDULE 40 PVC OVER 10' ABOVE FINISHED GRADE, SCHEDULE 80 PVC UP TO 10' ABOVE FINISHED GRADE.
3. ALL METALLIC EQUIPMENT INCLUDING PIPES FOR PLUMBING VENTILATION SHALL BE BONDED TO THE LIGHTNING PROTECTION SYSTEM. EVEN THOUGH, NOT ALL THE METALLIC COMPONENTS ARE SHOWN, IT SHALL BE THE RESPONSIBILITY OF THE INSTALLER TO BOND ALL METALLIC COMPONENTS ON THE ROOF AND THE BUILDING.



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SCALE: 3/32" = 1'-0"



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OFFICE OF ENGINEERING

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PROJECT TITLE:
POMFRET MAINTENANCE FACILITY

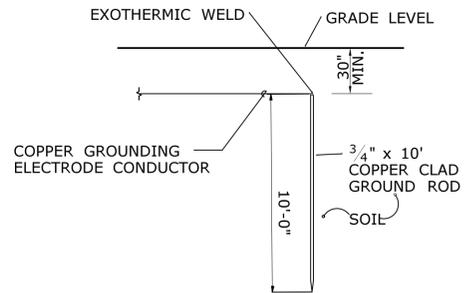
TOWN:
POMFRET

DRAWING TITLE:
LIGHTNING PROTECTION PLAN

PROJECT NO.
111-121

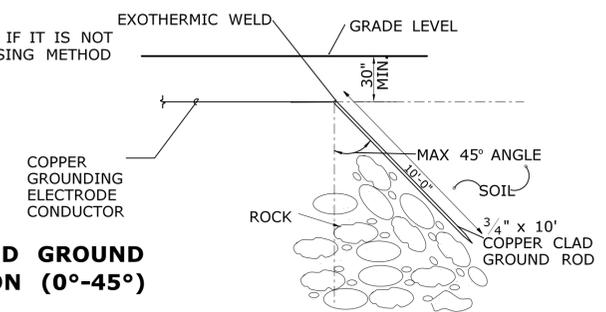
DRAWING NO.
E-540

SHEET NO.
09.20

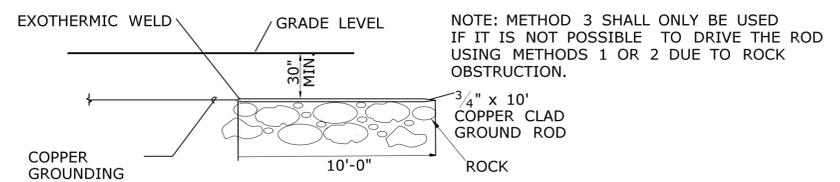


GROUNDING ELECTRODE DETAIL
SCALE: NTS
1
E-541

NOTE: METHOD 2 SHALL BE USED IF IT IS NOT POSSIBLE TO DRIVE THE ROD USING METHOD 1 DUE TO ROCK OBSTRUCTION.

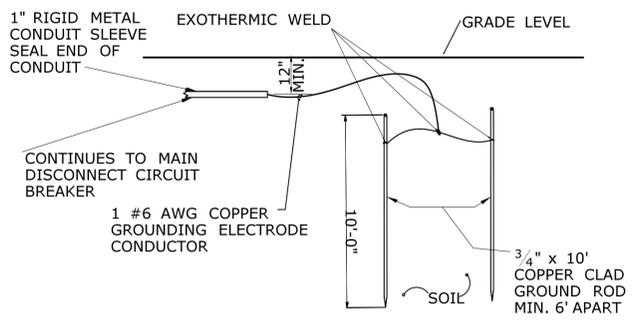


METHOD 2. ANGLED GROUND ROD INSTALLATION (0°-45°)

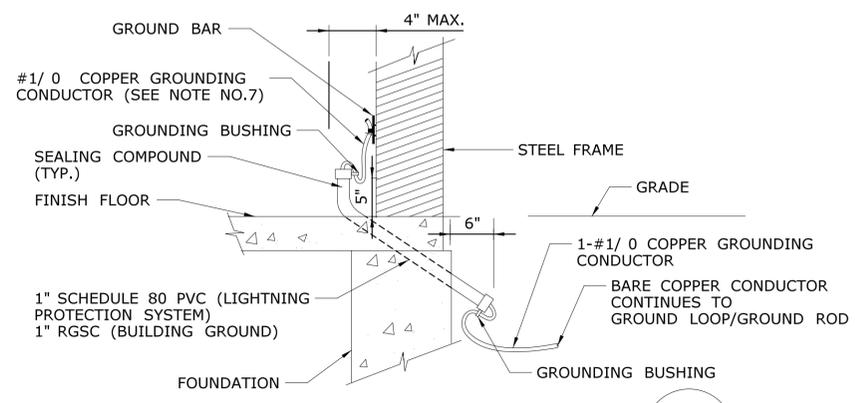


METHOD 3. HORIZONTAL GROUND ROD INSTALLATION (45°-90°)

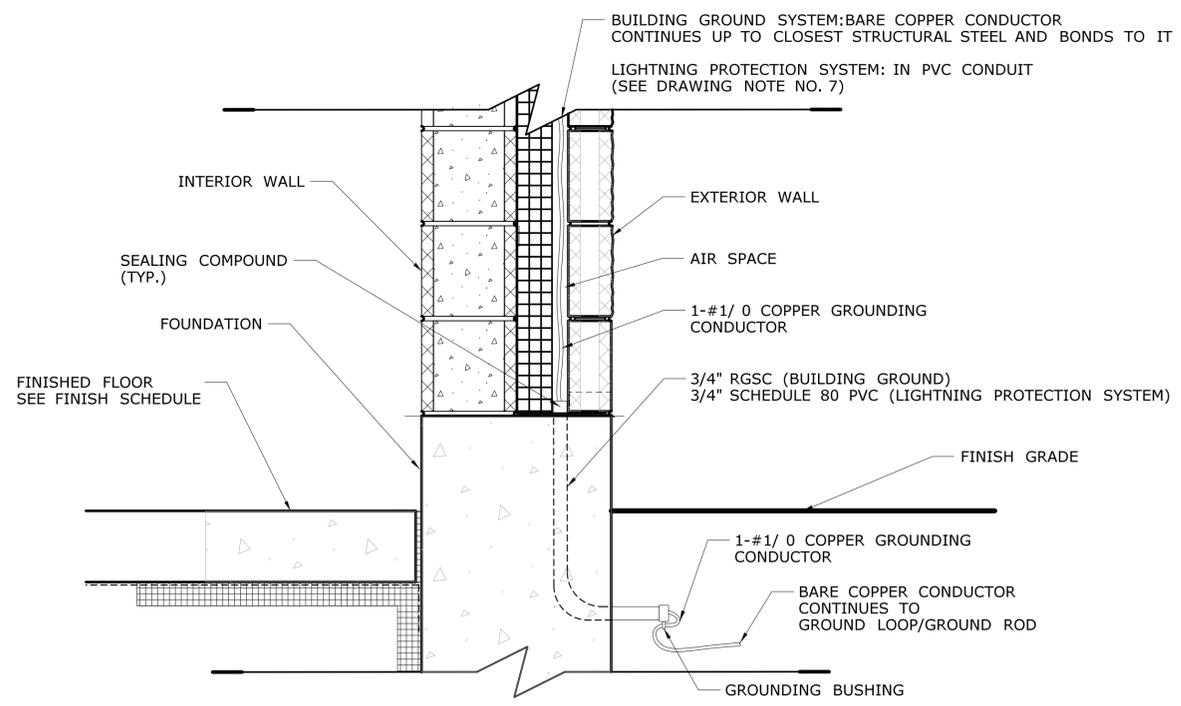
GROUNDING IN ROCK AREA DETAIL
SCALE: NTS
2
E-541



GROUNDING ELECTRODE DETAIL
SCALE: NTS
3
E-541



BAY AREA GROUNDING PENETRATION DETAIL
SCALE: NTS
4
E-541



OFFICE AREA GROUNDING PENETRATION DETAIL
SCALE: NTS
5
E-541

DRAWING NOTES:

1. STRIKE TERMINATION DEVICES (AIR TERMINALS) SPACING SHALL BE MAXIMUM OF 20 FEET ON ROOF.
2. AIR TERMINALS SHALL BE 3/8" IN DIAMETER, WITH SAFETY TIPS, MADE OF COPPER OR COPPER ALLOYS THAT ARE RESISTANT TO CORROSION, AND HAVE A HEIGHT SO TIPS ARE A MINIMUM OF 10 INCHES ABOVE THE OBJECT OR AREA IT IS TO PROTECT.
3. COPPER LIGHTNING PROTECTION MATERIALS ARE NOT TO BE INSTALLED ON ALUMINUM SURFACES.
4. AIR TERMINALS SHALL BE SECURED BY ATTACHING TO THE OBJECT TO BE PROTECTED OR BY USING BRACES THAT ARE PERMANENTLY AND RIGIDLY ATTACHED TO THE BUILDING.
5. NO BEND OF A CONDUCTOR SHALL FORM AN INCLUDED ANGLE OF LESS THAN 90 DEGREES, NOR SHALL IT HAVE A RADIUS OF BEND LESS THAN 8 INCHES.
6. THE TOTAL NUMBER OF DOWN CONDUCTORS FOR A FLAT SLOPING ROOF SHALL HAVE A DOWN CONDUCTOR FOR EVERY 100 FT. OF PERIMETER OR FRACTION THEREOF.
7. DOWN CONDUCTORS LOCATED AT LOCATIONS SUBJECT TO PHYSICAL DAMAGE OR DISPLACEMENT SHALL BE PROTECTED. ALL DOWN CONDUCTORS INSIDE THE BUILDING SHALL BE INSTALLED IN CONDUIT. FOR THE BUILDING GROUND SYSTEM, THE CONTRACTOR SHALL INSTALL EMT CONDUIT ON CONDUIT RUNS INSTALLED OVER 10 FT AFF AND RGSC ON RUNS INSTALLED UNDER 10 FT AFF. FOR THE LIGHTNING PROTECTION SYSTEM, THE CONTRACTOR SHALL INSTALL PVC SCHEDULE 40 CONDUIT ON CONDUIT RUNS INSTALLED OVER 10 FT AFF AND PVC SCHEDULE 80 ON RUNS INSTALLED UNDER 10 FT AFF.
8. THE DOWN CONDUCTOR SHALL BE PROTECTED FOR A MINIMUM DISTANCE OF 6 FT. ABOVE GRADE LEVEL.
9. CONDUCTORS SHALL BE FASTENED TO STRUCTURE UPON WHICH THEY ARE PLACED AT INTERVALS NOT EXCEEDING 3 FT. CONDUCTOR FASTENINGS SHALL NOT BE SUBJECT TO BREAKAGE AND SHALL BE OF THE SAME MATERIAL AS THE CONDUCTOR OR OF A MATERIAL EQUALLY RESISTANT TO CORROSION AS THAT OF THE CONDUCTOR.
10. EACH DOWN CONDUCTOR SHALL TERMINATE AT A GROUND TERMINAL DEDICATED TO THE LIGHTNING PROTECTION SYSTEM.
11. THE GROUND RODS SHALL BE COPPER, AND SHALL BE 10 FEET LONG BY 3/4" DIAMETER.
12. ELECTRICAL SYSTEM GROUNDING ELECTRODES SHALL NOT BE USED IN LIEU OF LIGHTNING GROUND ELECTRODES; THIS PROVISION SHALL NOT PROHIBIT THE REQUIRED BONDING TOGETHER OF GROUNDING ELECTRODES OF DIFFERENT SYSTEMS.
13. THE DOWN CONDUCTOR(S) SHALL BE ATTACHED PERMANENTLY TO THE GROUNDING ELECTRODE SYSTEM BY BOLTING, BRAZING, WELDING, OR HIGH-COMPRESSION CONNECTORS LISTED FOR THE PURPOSE, AND CLAMPS SHALL BE SUITED FOR DIRECT BURIAL.
14. ALL GROUNDING MEDIA IN OR ON A STRUCTURE SHALL BE INTERCONNECTED TO PROVIDE A COMMON GROUND POTENTIAL. THIS INTERCONNECTION SHALL INCLUDE LIGHTNING PROTECTION, ELECTRIC SERVICE, AS WELL AS UNDERGROUND METALLIC PIPING SYSTEMS. THE GROUNDING ELECTRODE SYSTEM OF THE LIGHTNING PROTECTION SYSTEM SHALL BE BONDED TO THE ELECTRICAL SERVICE GROUNDING ELECTRODE SYSTEM.
15. COORDINATE INSTALLATION OF COPPER GROUND RODS WITH THE BUILDING'S STRUCTURE AND PAVEMENT CONSTRUCTION.
16. AIR TERMINALS FOR THE MECHANICAL EQUIPMENT SHALL BE INSTALLED IN THE PROXIMITY OF THE MECHANICAL EQUIPMENT AND SHALL BE CONNECTED TO THE EQUIPMENT WITH APPROVED CONNECTIONS FOR JOINING ALUMINUM AND COPPER MATERIALS.
17. ALL DOWN LEAD CONDUCTORS SHALL BE CONCEALED IN STRUCTURE. DOWN LEAD CONDUCTORS CONCEALED IN CONDUIT SHALL NOT COUNT AS CONCEALED.
18. CONDUCTORS SUPPORTS ON THE ROOF SHALL BE PROVIDED PER NFPA 780 SECTION 4.9.6.
19. BOND DRAINS WITHIN 6' OF THE LIGHTNING PROTECTION SYSTEM.

GROUND ROD INSTALLATION NOTES:

1. THE STEEL FRAMEWORK OF THE BUILDING SHALL BE GROUNDED WITH A DRIVEN GROUND ROD AT LOCATIONS SHOWN ON DRAWING NO. E-540.
2. INSTALL GROUND RING 3 FEET FROM FOUNDATION WALL AND 30 INCHES MINIMUM BELOW FINAL GRADE. COORDINATE WORK WITH PAVING AND STRUCTURAL WORK.
3. ALL GROUND CONDUCTORS SHALL BE CONCEALED.
4. THE STEEL FRAMEWORK (COLUMNS) OF THE BUILDING SHALL BE GROUNDED WITH A DRIVEN GROUND ROD AT DISTANCES NOT MORE THAN 60 FEET APART AT LOCATIONS SHOWN ON DRAWING NO. E-540.
5. IF ROCK IS ENCOUNTERED GROUNDING SHALL BE ACCOMPLISHED BY ONE OF THE TWO METHODS INDICATED IN DETAIL NO. 2.

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OFFICE OF ENGINEERING
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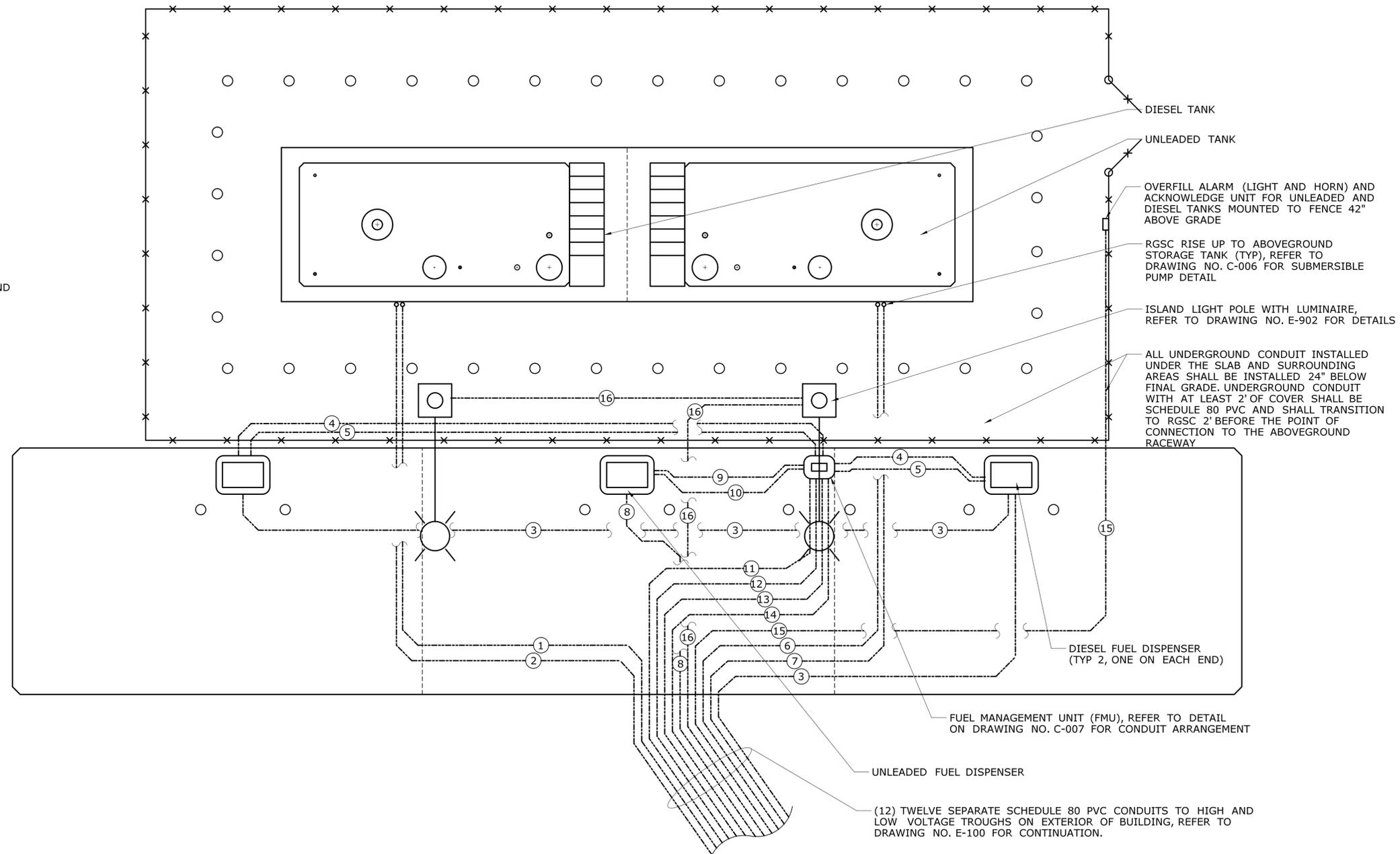
PROJECT TITLE:
POMFRET MAINTENANCE FACILITY

TOWN:
POMFRET
DRAWING TITLE:
LIGHTNING PROTECTION DETAILS

PROJECT NO.
111-121
DRAWING NO.
E-541
SHEET NO.
09.21

LEGEND

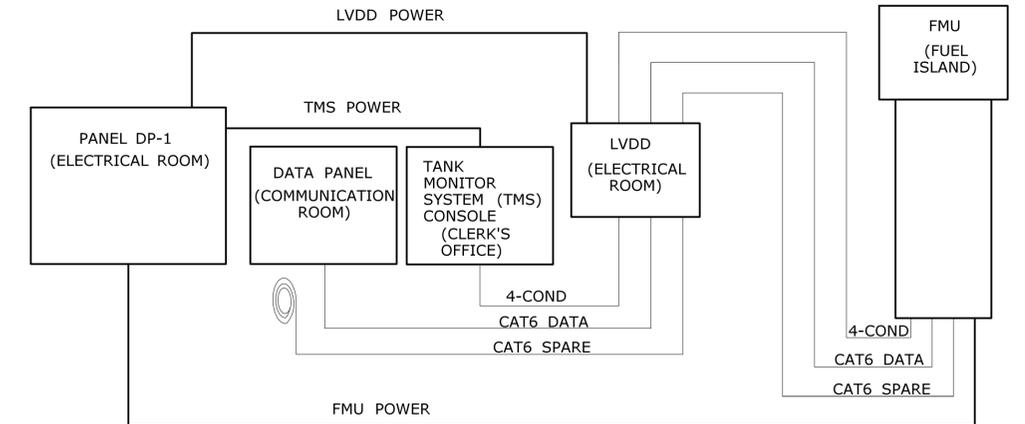
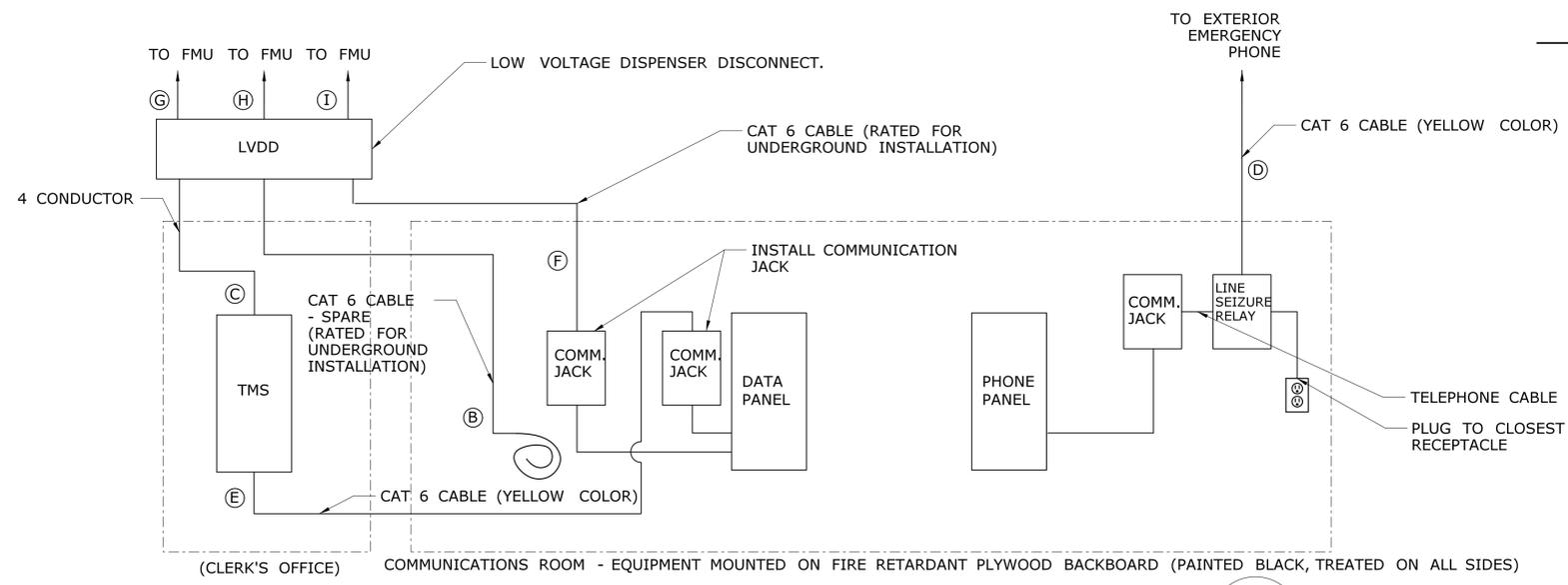
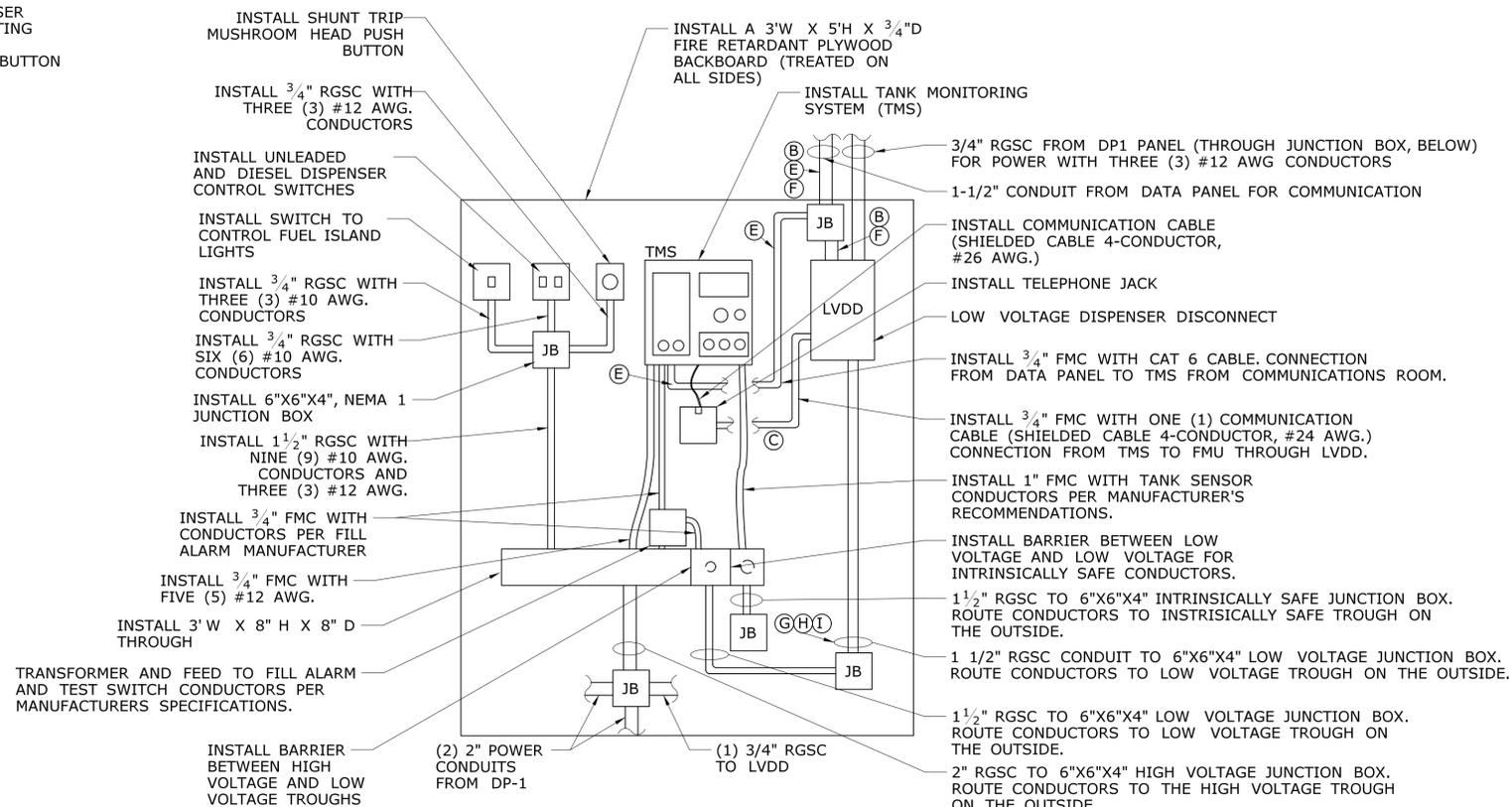
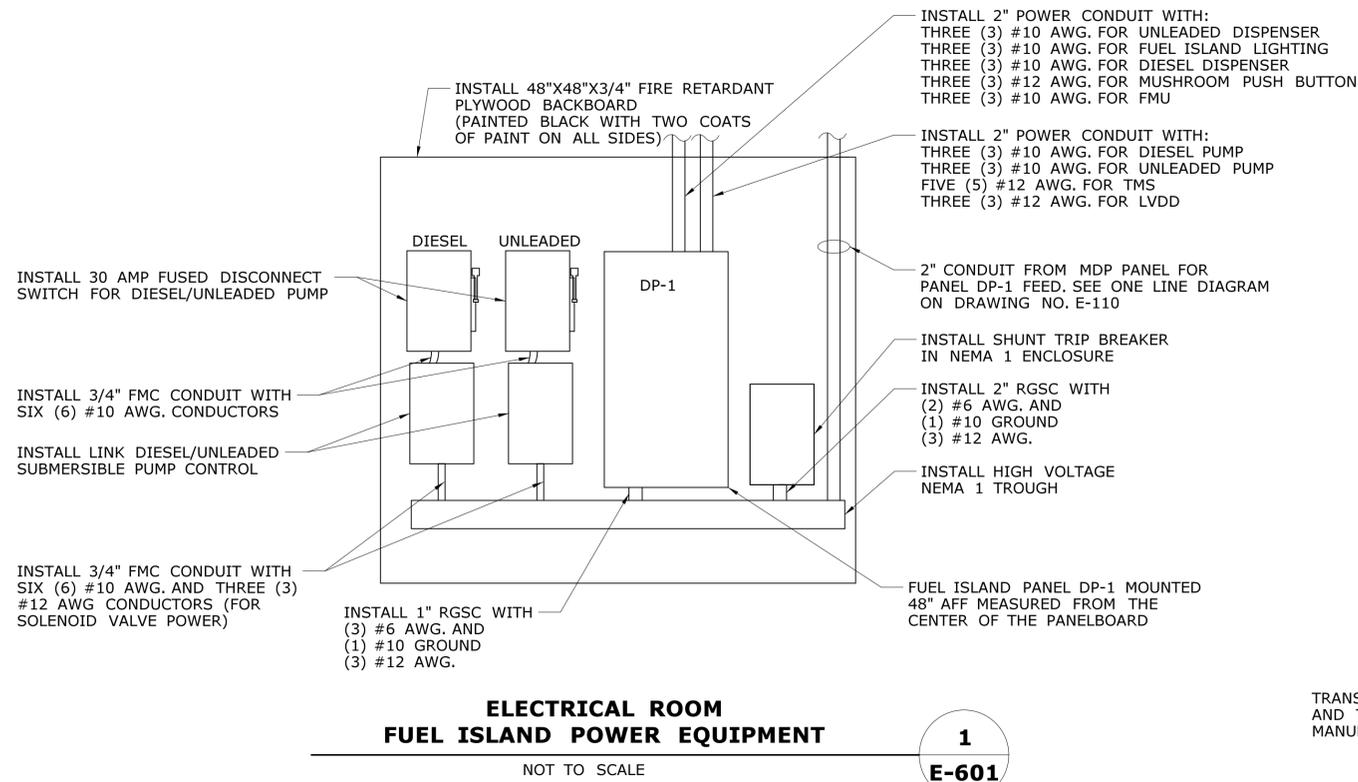
- ① DIESEL SUBMERSIBLE PUMP AC POWER (2#10 AWG, 1#10 GRND)
DIESEL TANK SOLENOID VALVE (2#10 AWG, 1#10 GRND)
- ② IN-TANK PROBE & INTERSTITIAL SENSOR CONDUCTORS FROM TANK MONITORING SYSTEM TO DIESEL TANK (NO. & SIZE OF CONDUCTORS PER MANUFACTURER'S SPECIFICATIONS)
- ③ DIESEL DISPENSER AC POWER (2#10 AWG, 1#10 GRND)
- ④ DIESEL DISPENSER PULSER CONTROL FROM FMU (NO. & SIZE OF CONDUCTORS PER MANUFACTURER SPECIFICATIONS)
- ⑤ DIESEL DISPENSER AC POWER CONTROL FROM FMU (NO. & SIZE OF CONDUCTORS PER MANUFACTURER SPECIFICATIONS)
- ⑥ UNLEADED SUBMERSIBLE PUMP AC POWER (2#10 AWG, 1#10 GRND)
UNLEADED TANK SOLENOID VALVE (2#10 AWG, 1#10 GRND)
- ⑦ IN-TANK PROBE & INTERSTITIAL SENSOR CONDUCTORS FROM TANK MONITORING SYSTEM TO UNLEADED TANK (NO. & SIZE OF CONDUCTORS PER MANUFACTURER SPECIFICATIONS)
- ⑧ UNLEADED DISPENSER AC POWER (2#10 AWG, 1#10 GRND)
- ⑨ UNLEADED DISPENSER PULSER CONTROL FROM FMU (NO. & SIZE OF CONDUCTORS PER MANUFACTURER SPECIFICATIONS)
- ⑩ UNLEADED DISPENSER AC POWER CONTROL FROM FMU (NO. & SIZE OF CONDUCTORS PER MANUFACTURER SPECIFICATIONS)
- ⑪ FMU (3#12 AWG, 1#12 GRND)
- ⑫ FMU AND TANK MONITORING SYSTEM COMMUNICATIONS (4-CONDUCTOR SHIELDED #24 OR AS PER MANUFACTURER SPECIFICATIONS), FMU AND NETWORK COMMUNICATIONS (CAT 6 - RATED FOR UNDERGROUND USE)
- ⑬ SPARE COMMUNICATION TO FMU (CAT 6 SPARE - RATED FOR UNDERGROUND USE)
- ⑭ SPARE TO FMU - POWER
- ⑮ OVERFILL ALARM FOR UNLEADED AND DIESEL TANKS (NO. & SIZE OF CONDUCTORS PER MANUFACTURER SPECIFICATIONS)
- ⑯ ISLAND LIGHTING (2#12 AWG, 1#12 GRND)



NOTES:

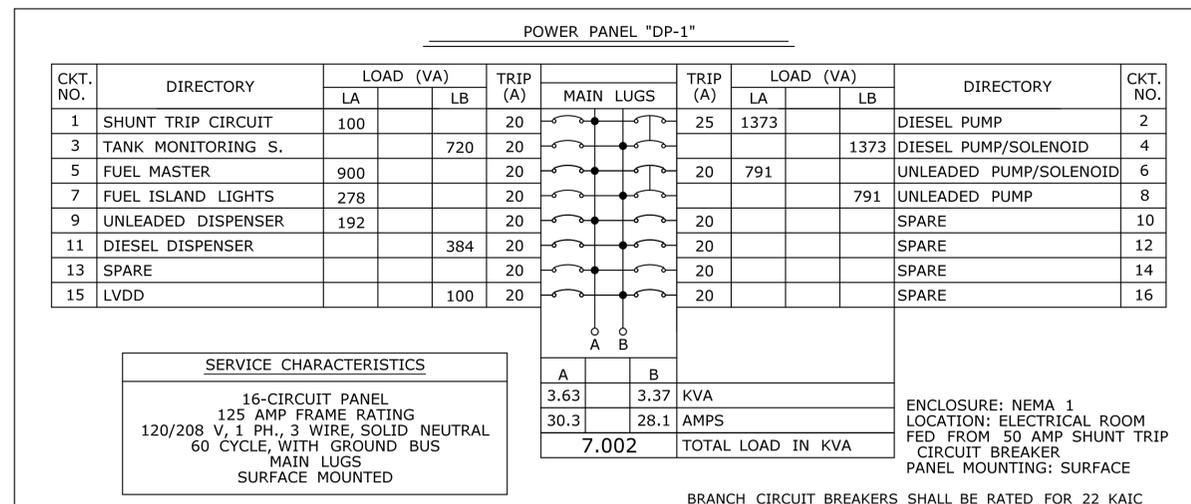
- 1. ALL CONDUITS SHALL BE PROVIDED WITH EXPLOSION PROOF FITTINGS AND SEALED AS REQUIRED IN ACCORDANCE WITH NFPA 70.
- 2. REFER TO DRAWING NO. CT-002 FOR MOTOR FUEL TANK AND DRAWING NO. CT-003 FOR MOTOR FUEL ISLAND DETAILS.
- 3. REFER TO CSI SECTION 132160 "INSTALLATION OF NEW FUEL FACILITY" FOR GROUNDING AND BONDING.

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| | | | | CHECKED BY: JMK | | OFFICE OF ENGINEERING | DRAWING NO. E-600 | DRAWING TITLE: MOTOR FUEL ISLAND CONDUIT | SHEET NO. 09.22 |
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- COMMUNICATION NOTES:
1. MOUNT AND MAKE NECESSARY CONNECTIONS REQUIRED FOR THE NETWORK COMMUNICATION SYSTEM. THE CONTRACTOR SHALL CONTACT MR. DENIS RICHARD AT 860-594-3546 PRIOR TO THE INSTALLATION OF THE COMMUNICATION JACKS.
 2. ALL CAT 6 CABLE SHALL BE TERMINATED AT THE PUNCH BLOCK. ALL CAT 6 DATA CABLE SHALL BE TERMINATED AT THE DATA PANEL/NETWORK SWITCH.
 3. ALL CAT 6 CABLE SHALL BE INSTALLED IN CONDUIT.
 4. SPARE CAT 6 CABLE SHALL BE ROLLED AND SECURED WITH CABLE TIES.

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| CHECKED BY: JMK | | APPROVED BY: | DRAWING TITLE: FUEL ISLAND EQUIPMENT | DRAWING NO. E-601 | SHEET NO. 09.23 |
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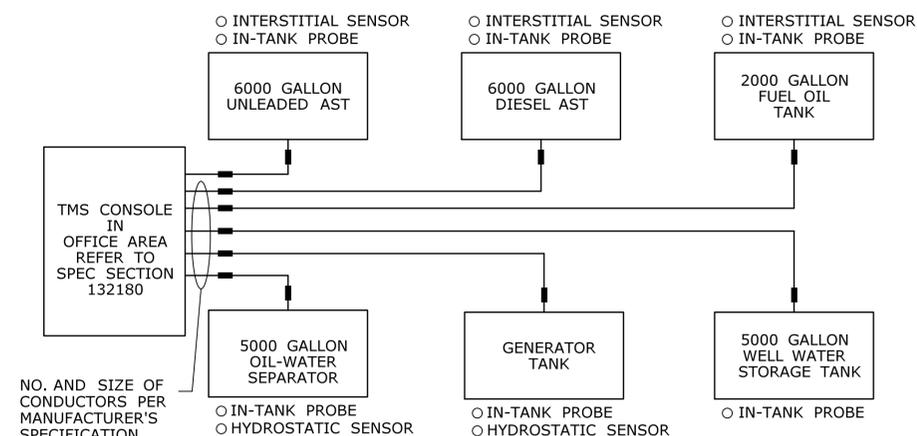
PANEL SCHEDULE

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E-602

NOTES:

- INSTALL DP-1 PANELBOARD, GE CATALOG NO. AQU1302RCXAXB4 OR APPROVED EQUAL. DP-1 SHALL BE EQUIPPED WITH PIANO HINGED TRIMS, COPPER TIN PLATED BUS, BOLT-ON CIRCUIT BRANCH BREAKERS RATED FOR 22KIC.
- INSTALL A 3-POLE SHUNT TRIP 50 AMP MAIN BREAKER IN NEMA TYPE 1 ENCLOSURE BETWEEN MDP AND PANEL DP-1 FOR DISCONNECTION OF PHASE A, B, AND NEUTRAL. 3-POLE SHUNT TRIP BREAKER SHALL BE GENERAL ELECTRIC CATALOG NO. SEHA36AT0060 OR APPROVED EQUAL. REFER TO NEC 2005, ARTICLE 514. EMERGENCY SHUTOFF MUST BE MANUALLY RESET BY RESETTING SHUNT TRIP CIRCUIT BREAKER.
- INSTALL SHUNT TRIP MUSHROOM HEAD PUSH BUTTON, RED LED-ILLUMINATED WITH POLYCHROMATIC GUARD, PUSH/TWIST RELEASE BUTTON. THE SHUNT TRIP PUSH BUTTON SHALL BE 30 MM IN SIZE AND EQUIPPED WITH 1 NORMALLY OPEN AND 1 NORMALLY CLOSED CONTACTS. PROVIDE NAMEPLATE "FUEL ISLAND EMERGENCY POWER OFF". THE EMERGENCY STOP SWITCH INSTALLED IN OFFICE AREA AND ON EXTERIOR OF THE BUILDING SHALL BE WIRED IN PARALLEL AND SHALL TRIP THE SHUNT TRIP BREAKER. THE SHUNT TRIP MUSHROOM HEAD PUSH BUTTON SHALL BE SIEMENS CATALOG NO. 52PR8MRAB OR APPROVED EQUAL. TWO (2) ARE REQUIRED.
- BRANCH CIRCUITS EXCEEDING 100 FEET IN LENGTH SHALL BE #10 AWG. WIRING SIZE SHALL BE ADJUSTED AS NECESSARY TO REFLECT VOLTAGE DROP.
- FUEL ISLAND LIGHTS SHALL BE CONNECTED TO THE CONTACTOR LOCATED IN THE ELECTRICAL ROOM AND SHALL BE CONNECTED ALSO TO THE FUEL ISLAND SWITCH LOCATED IN THE CLERK'S OFFICE.

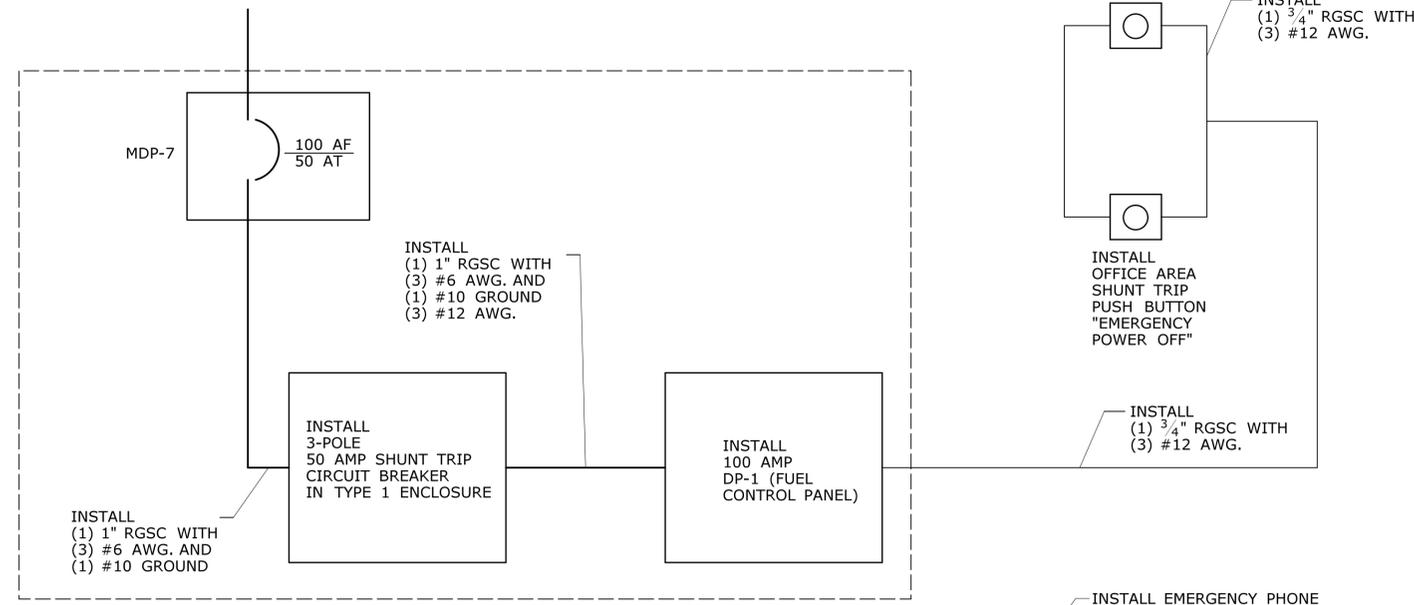


TANK MONITORING SYSTEM BLOCK DIAGRAM

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NOTE: INSTALL SCHEDULE 40 STEEL PIPE OF LENGTH REQUIRED IN TOP OF TANK TO ACCOMMODATE IN-TANK PROBE.

3
E-602



ONE-LINE DIAGRAM

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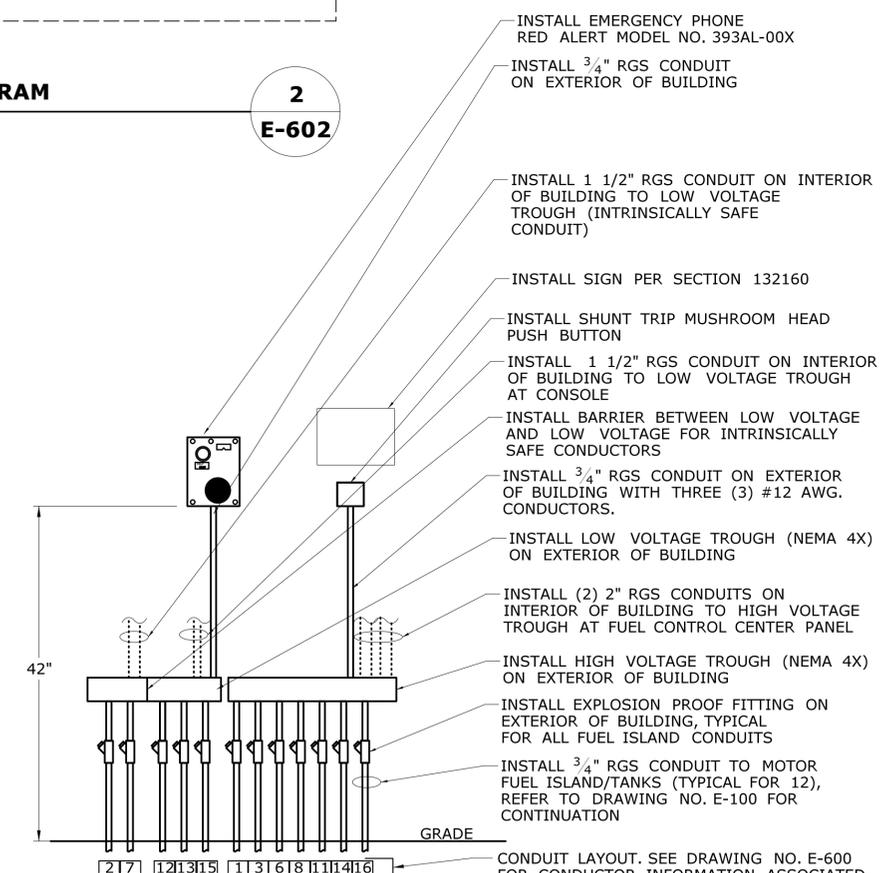
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| CKT. NO. | DIRECTORY | THWN CONDUCTOR SIZE (AWG.) | QUANTITY INCLUDING GROUND |
|----------|--------------------|----------------------------|---------------------------|
| 1 | SHUNT TRIP CIRCUIT | 12 | 3 |
| 3 | TANK MONITORING S. | 12 | 5 |
| 5 | FUEL MASTER | 10 | 3 |
| 7 | FUEL ISLAND LIGHTS | 10 | 3 |
| 9 | UNLEADED DISPENSER | 10 | 3 |
| 11 | DIESEL DISPENSER | 10 | 3 |
| 15 | SPARE | 10 | 3 |
| 2,4 | LVDD | 10 | 4 |
| 6,8 | | 10 | 4 |

CONDUCTOR SCHEDULE

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E-602



EXTERIOR TROUGH DETAIL

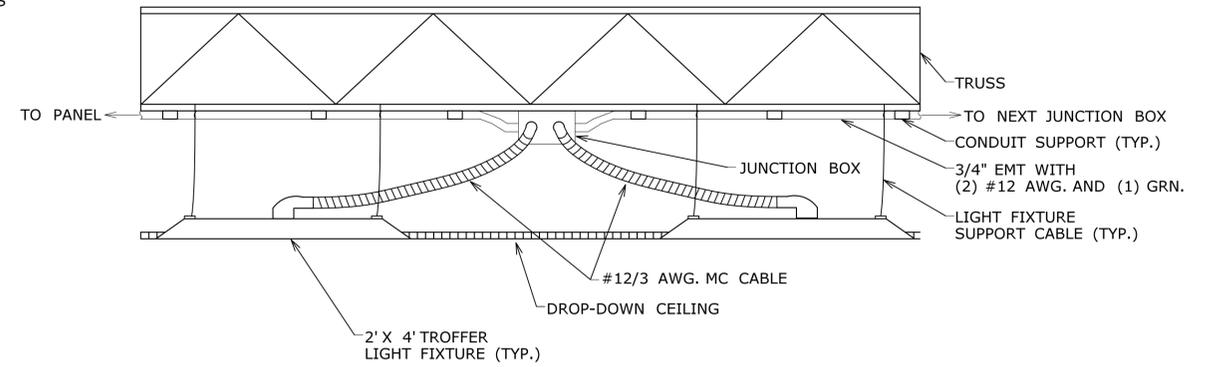
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MOUNTING HEIGHT NOTES:

1. MEANS OF MOUNTING SHALL BE PER MANUFACTURER'S SPECIFICATIONS UNLESS OTHERWISE NOTED.
2. MOUNT GFI RECEPTACLES ADJACENT TO HANDICAP SINKS AT ADA ACCESSIBLE HEIGHT 40" AFF.
3. COUNTER TOP GFI RECEPTACLES SHALL BE 8" ABOVE COUNTER TOP MEASURED TO THE MIDDLE OF THE RECEPTACLE. COUNTER TOP GFI RECEPTACLES SHALL BE INSTALLED WITHIN 24" FROM THE EDGE OF THE SINK.
4. DISCONNECTS FOR THE ROOF MOUNTED EXHAUST FANS SHALL BE MOUNTED ADJACENT TO THE UNIT.
5. WHERE FINNED TUBE RADIATION EXISTS, INSTALL BOTTOM OF WORK BOXES 2" ABOVE FINNED TUBE RADIATION.
- 6a. ALL EXPOSED CONDUIT INSTALLED IN THE BAY AREAS, ELECTRICAL AND MECHANICAL ROOMS AT FLOOR LEVEL UP TO AND INCLUDING THE UNIFORM HEIGHT OF 10 FEET ABOVE FINISHED FLOOR SHALL BE RGSC. CONDUIT RACEWAYS SPECIFIED TO BE INSTALLED AND EXTENDED BEYOND THE 10 FOOT HEIGHT SHALL BE CONVERTED TO EMT.
- 6b. ALL WIRING IN OFFICE CORE SHALL BE FED IN EMT CONDUIT INSIDE FINISH WALL (FOR EXPOSED CONDUIT SEE MOUNTING NOTE 6a). CONDUIT IN OFFICE AREA SHALL NOT BE RUN IN SLAB UNLESS OTHERWISE NOTED.
- 6c. ALL EXPOSED CONDUIT INSTALLED IN THE WASH BAY AREAS AT FLOOR LEVEL UP TO AND INCLUDING THE UNIFORM HEIGHT OF 10 FEET ABOVE BAY AREA FINISHED FLOOR SHALL BE PVC COATED RGSC. CONDUIT RACEWAYS SPECIFIED TO BE INSTALLED AND EXTENDED BEYOND THE 10 FOOT HEIGHT SHALL BE CONVERTED TO PVC. PVC SHALL BE EQUIPPED WITH EXPANSION FITTINGS WHERE NECESSARY TO COMPENSATE FOR THERMAL EXPANSION AND CONTRACTION AS SPECIFIED IN THE NEC ARTICLE 300.7.
7. FAN CONTROLS AND GARAGE DOOR CONTROLS SHALL BE MOUNTED 48" AFF MEASURED TO THE CENTER.
8. CENTER WORKBENCH LIGHTING FIXTURES OVER WORKBENCH LOCATIONS 7' AFF. TYPE "C" FIXTURES SHALL BE SUSPENDED FROM THE BOTTOM OF THE CEILING OR WALLS. INSTALL LIGHT SWITCHES FOR TYPE "C" FIXTURES ON THE WALL ADJACENT TO THE BENCH OR TO THE WORKBENCHES WHEN NOT AGAINST THE A WALL.
9. ELECTRICAL DEVICES INSTALLED IN MASONRY WALLS SHALL BE FLUSH MOUNTED. THE CONTRACTOR CAN ADJUST MOUNTING HEIGHT AND LOCATION OF ELECTRICAL BOXES TO THE NEAREST CMU FOR EASE OF INSTALLATION. MOUNTING HEIGHTS SHALL BE UNIFORM BETWEEN LIKE DEVICES AND DEVICES WITH THE SAME DESIGNATED MOUNTED HEIGHTS AS DETAILED IN THIS SHEET. ADJUSTED MOUNTING HEIGHTS SHALL BE ADA COMPLIANT.
10. TYPE "J", "A", "AE", "C", AND "H" FIXTURES SHALL BE EQUIPPED WITH TWIST LOCK TYPE RECEPTACLES AND SHALL BE INSTALLED UTILIZING STRUTS AND C-CHANNEL. - TYPICAL.
11. OCCUPANCY SENSORS SHALL BE MOUNTED AT 18" IN THE BAY AREAS, AND IN-BETWEEN AND BELOW GARAGE DOOR RAILS WHERE NOTED.
12. WET LOCATIONS SHALL USE STAINLESS STEEL MOUNTING HARDWARE OR AS SPECIFIED IN THE SPECIFICATIONS.

13. DOOR OPERATOR DISCONNECTS SWITCHES SHALL BE INSTALLED ADJACENT TO THE DOOR OPERATOR MOTORS. COMBINATION MOTOR STARTERS SHALL BE MOUNTED 60" ON ADJACENT WALL CLOSEST TO THE ELECTRICAL PANEL WHERE SERVICE FOR THE EQUIPMENT IS DERIVED OR AS LOCATED ON THE PLANS. THERMAL SWITCH DISCONNECTS SHALL BE MOUNTED ON THE MECHANICAL EQUIPMENT.
14. COORDINATE MOUNTING ELEVATION OF RECEPTACLES NEXT TO SINKS IN BATHROOMS WITH DRAWING NO. A-408.

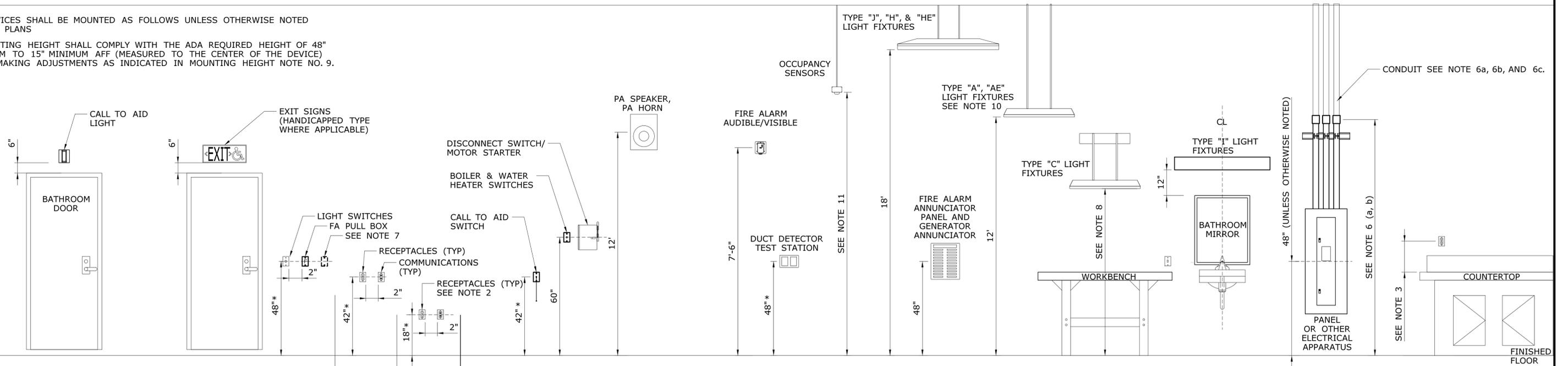


RECESSED TROFFER LIGHTING IN OFFICE DETAIL
NTS

2
E-900

ALL DEVICES SHALL BE MOUNTED AS FOLLOWS UNLESS OTHERWISE NOTED ON THE PLANS

* MOUNTING HEIGHT SHALL COMPLY WITH THE ADA REQUIRED HEIGHT OF 48" MAXIMUM TO 15" MINIMUM AFF (MEASURED TO THE CENTER OF THE DEVICE) WHEN MAKING ADJUSTMENTS AS INDICATED IN MOUNTING HEIGHT NOTE NO. 9.



MOUNTING HEIGHT DETAILS

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E-900

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Plotted Date: 8/5/2015

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DESIGNER/DRAFTER:
FC

CHECKED BY:
JMK

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...FD_MSH_ELE_0111_0121_E900.dgn

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PROJECT TITLE:
POMFRET MAINTENANCE FACILITY

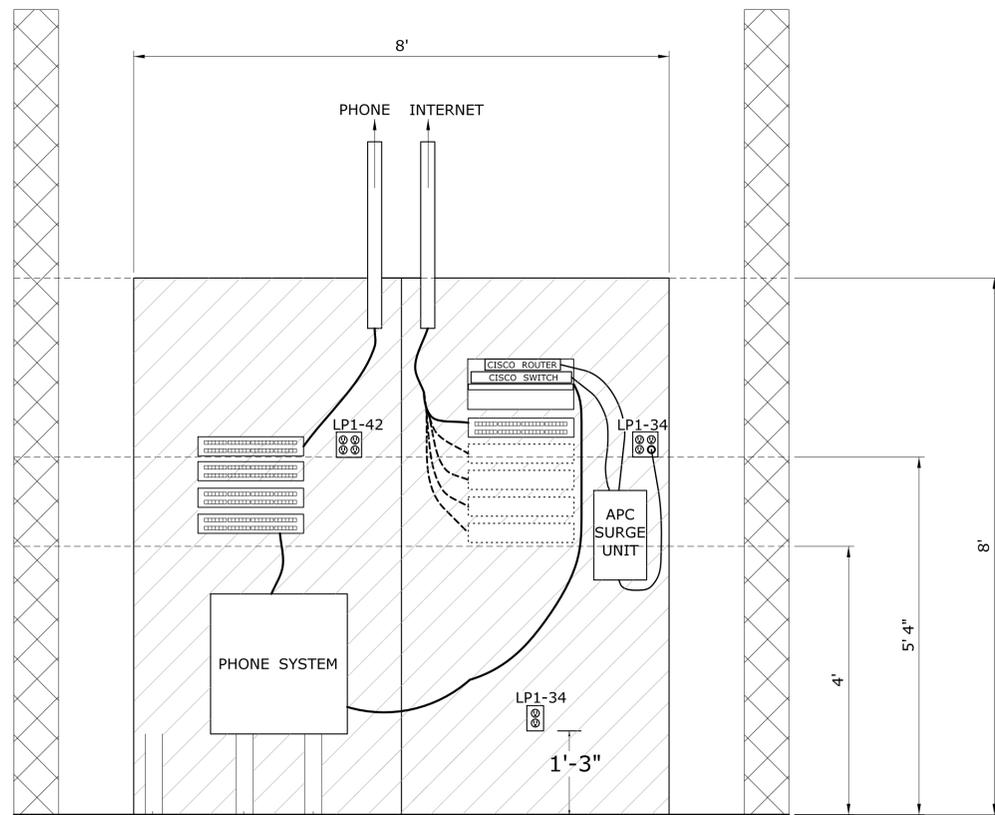
TOWN:
POMFRET

DRAWING TITLE:
ELECTRICAL DETAILS 1

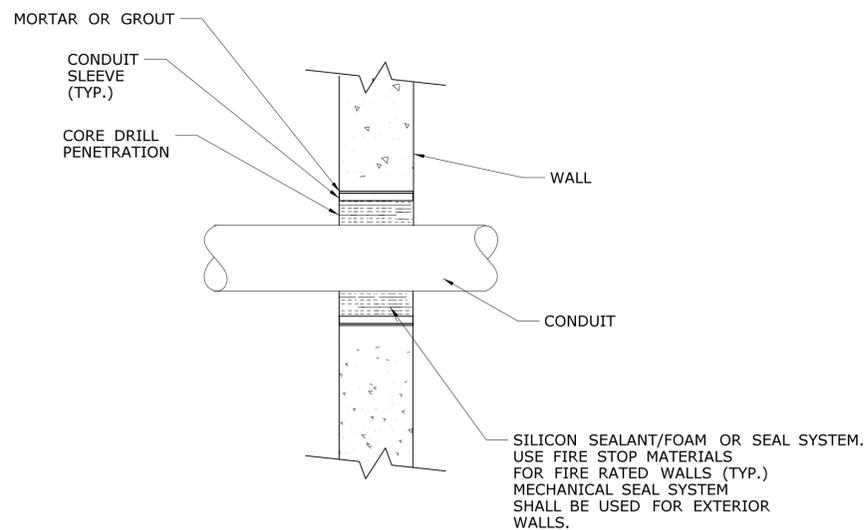
PROJECT NO.
111-121

DRAWING NO.
E-900

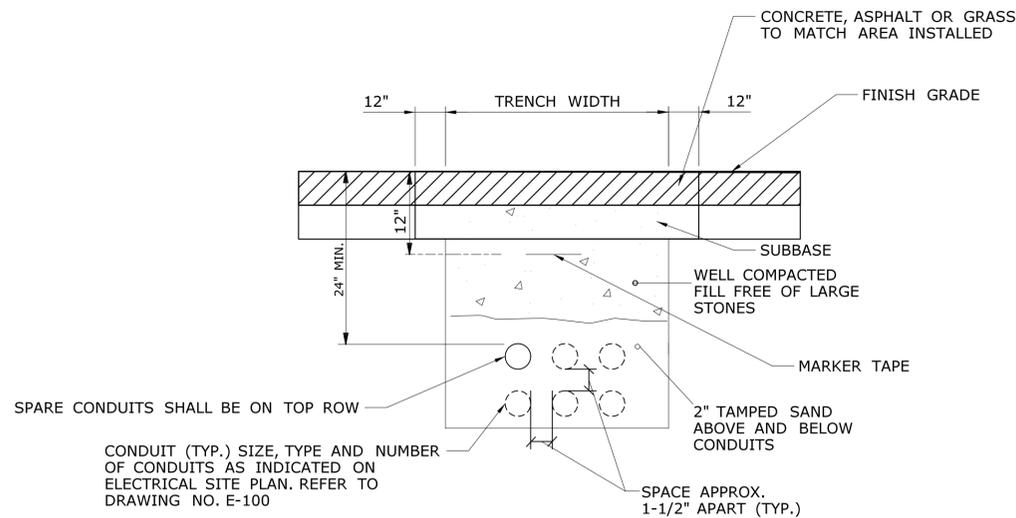
SHEET NO.
09.25



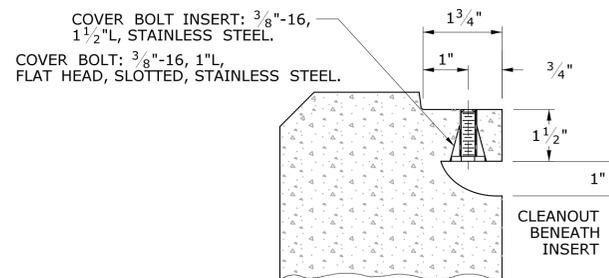
COMMUNICATIONS DETAIL 1
NOT TO SCALE
E-901



WALL PENETRATION DETAIL 2
NTS
E-901



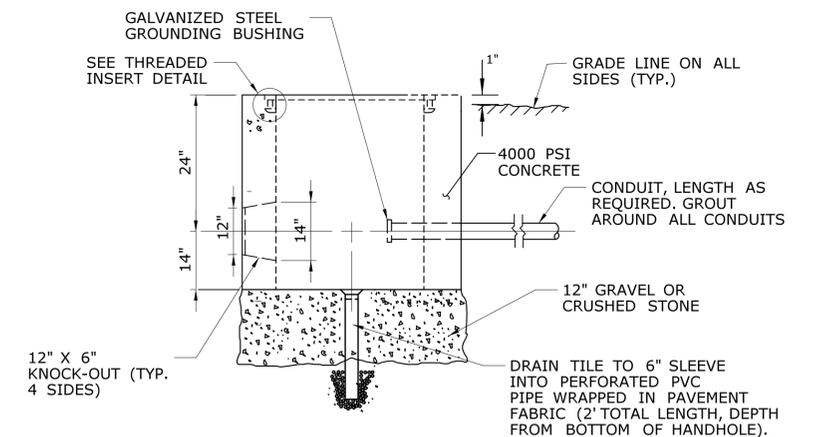
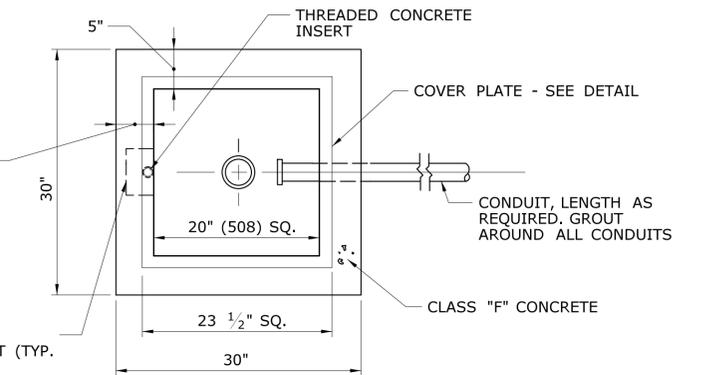
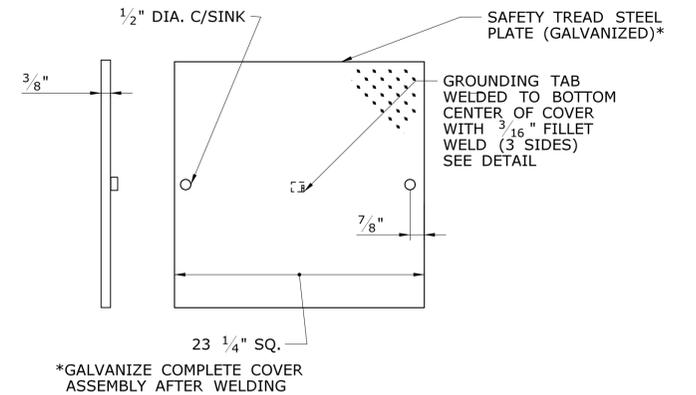
CONDUIT TRENCH 3
NTS
E-901



THREADED INSERT 4
NOT TO SCALE
E-901

HANDHOLE INSTALLATION NOTES:

1. REMOVE ONLY KNOCKOUTS THAT ARE TO BE USED.
2. GROUT AROUND ALL CONDUITS.
3. INSTALL CENTER OF ALL 30" X 30" HANDHOLES 3 FEET FROM BACK EDGE OF CURB OR EDGE OF ROAD (UNLESS DIMENSIONED OTHERWISE ON THE PLANS).
4. CONTRACTOR SHALL RECEIVE ENGINEERS APPROVAL IN DETERMINING BEST METHOD OF INSTALLING HANDHOLE DRAINS PRIOR TO INSTALLATION OF SUBJECT DRAINS.
5. DUCT SEAL ALL CONDUITS HOUSING CONDUCTORS, AND CAP ALL SPARE CONDUITS.
6. THE HANDHOLE COVER PLATE SHALL BE BONDED TO THE GROUND WIRE AND TO ALL METAL CONDUIT WITHIN THE HANDHOLE WITH NO. 8 GROUND WIRE. GROUND WIRE SHALL BE BONDED TO HANDHOLE GROUND TABS. ALL GROUND WIRES SHALL BE BONDED TO 3/4" BY 10' GROUND RODS.



CONCRETE HANDHOLE - TYPE I 5
NOT TO SCALE
E-901

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
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DESIGNER/DRAFTER:
FC
CHECKED BY:
JMK
SCALE AS NOTED

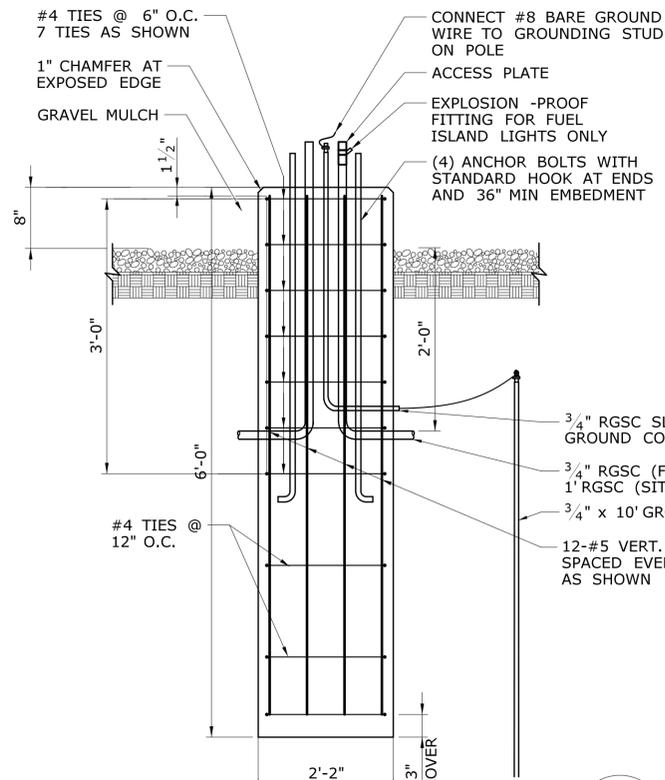


SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:
[Signature]

PROJECT TITLE:
POMFRET MAINTENANCE FACILITY

TOWN:
POMFRET
DRAWING TITLE:
ELECTRICAL DETAILS 2

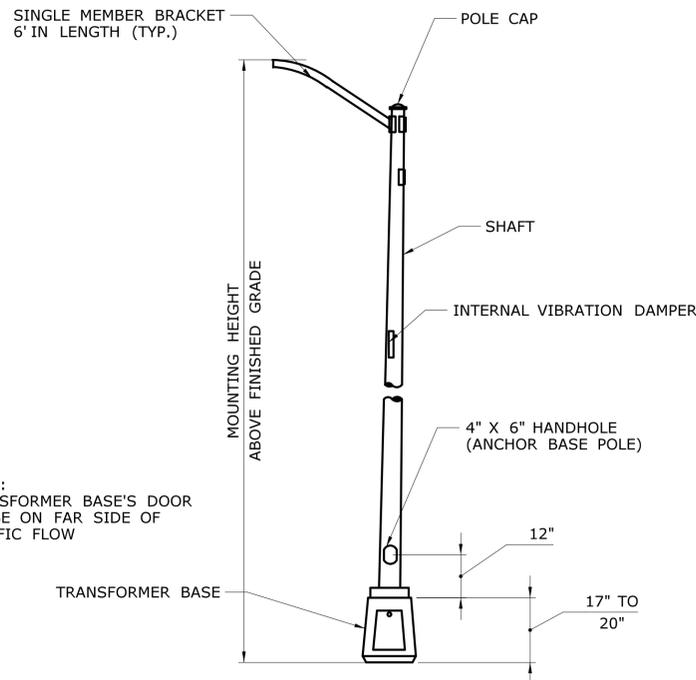
PROJECT NO.
111-121
DRAWING NO.
E-901
SHEET NO.
09.26



LIGHT POLE FOUNDATION DETAIL

NOT TO SCALE

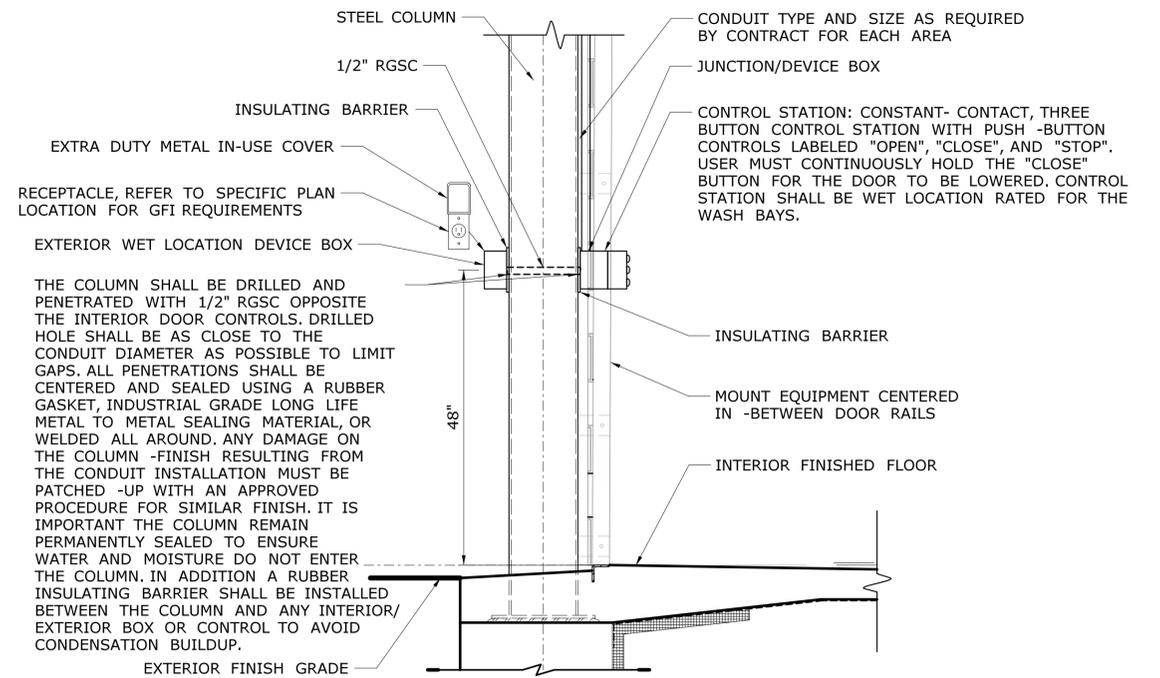
1
E-902



SITE LIGHTING FIXTURE - TYPE "L1" AND "L2"

NOT TO SCALE

2
E-902



COLUMN PENETRATION DETAIL

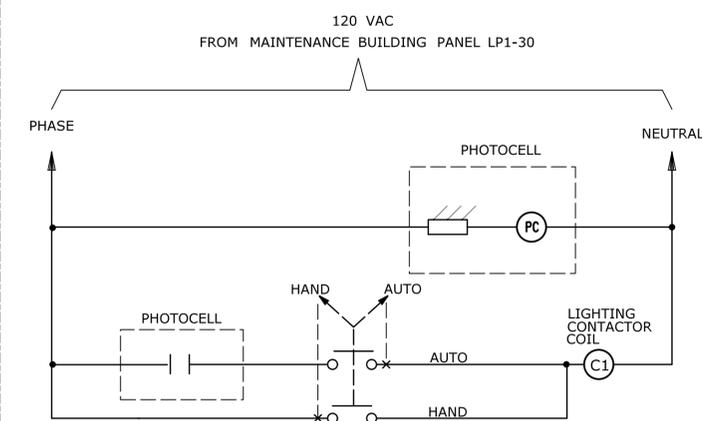
NTS

6
E-902

DRAWING NOTES:

- EQUIP SITE LIGHTING LUMINAIRES WITH SEPARATE BOND AND GROUND LUGS.
- ALL POLE DIMENSIONS ARE SHOWN ON LIGHTING SCHEDULE. REFER TO DRAWING NO. E-003.
- ALL HARDWARE USED TO ASSEMBLE THE LIGHT STANDARD, BASE, AND BRACKETS SHALL BE STAINLESS STEEL. ANCHOR BOLT HARDWARE SHALL BE GALVANIZED.

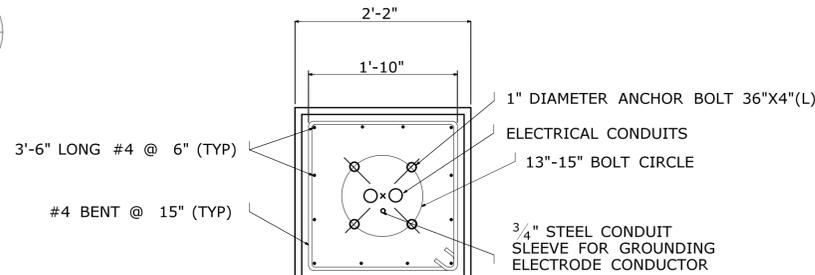
DEVICES LOCATED INSIDE NEMA 1 ENCLOSURE. LIGHTING CONTROL PANEL FOR EXTERIOR LIGHTING LOCATED IN ELECTRICAL ROOM



LIGHTING CONTACTOR DIAGRAM

NOT TO SCALE

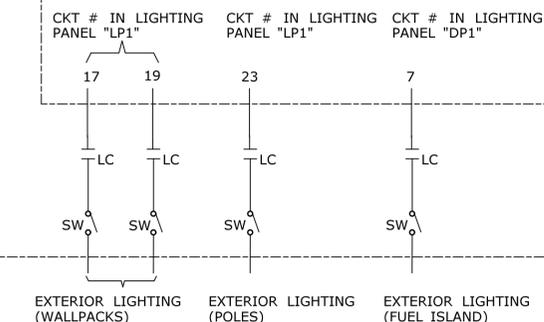
4
E-902



SITE LIGHTING POLE BASE PLATE FOR FIXTURE - TYPE "L1" AND "L2"

NOT TO SCALE

3
E-902

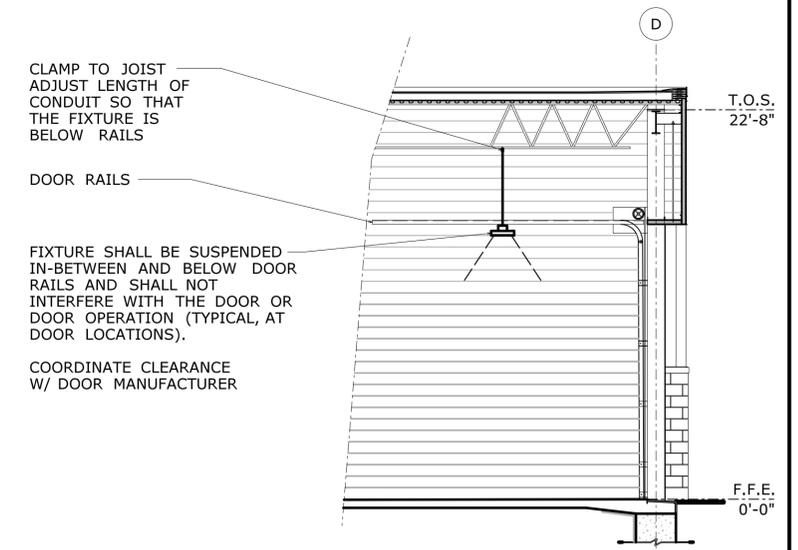


EXTERIOR LIGHTING (WALLPACKS) EXTERIOR LIGHTING (POLES) EXTERIOR LIGHTING (FUEL ISLAND)

FLAG POLE LIGHT INSTALLATION DETAIL

NTS

5
E-902



LIGHT FIXTURE MOUNTING DETAIL 1 BAY "H, HE, & J" FIXTURES

NTS

7
E-902

| REV. | DATE | REVISION DESCRIPTION | SHEET NO. |
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DESIGNER/DRAFTER: **FC**
 CHECKED BY: **JMK**
 SCALE AS NOTED

STATE OF CONNECTICUT
 DEPARTMENT OF TRANSPORTATION

Plotted Date: 8/3/2015
 Filename: ...VFD_MSH_ELE.0111.0121.E902.dgn

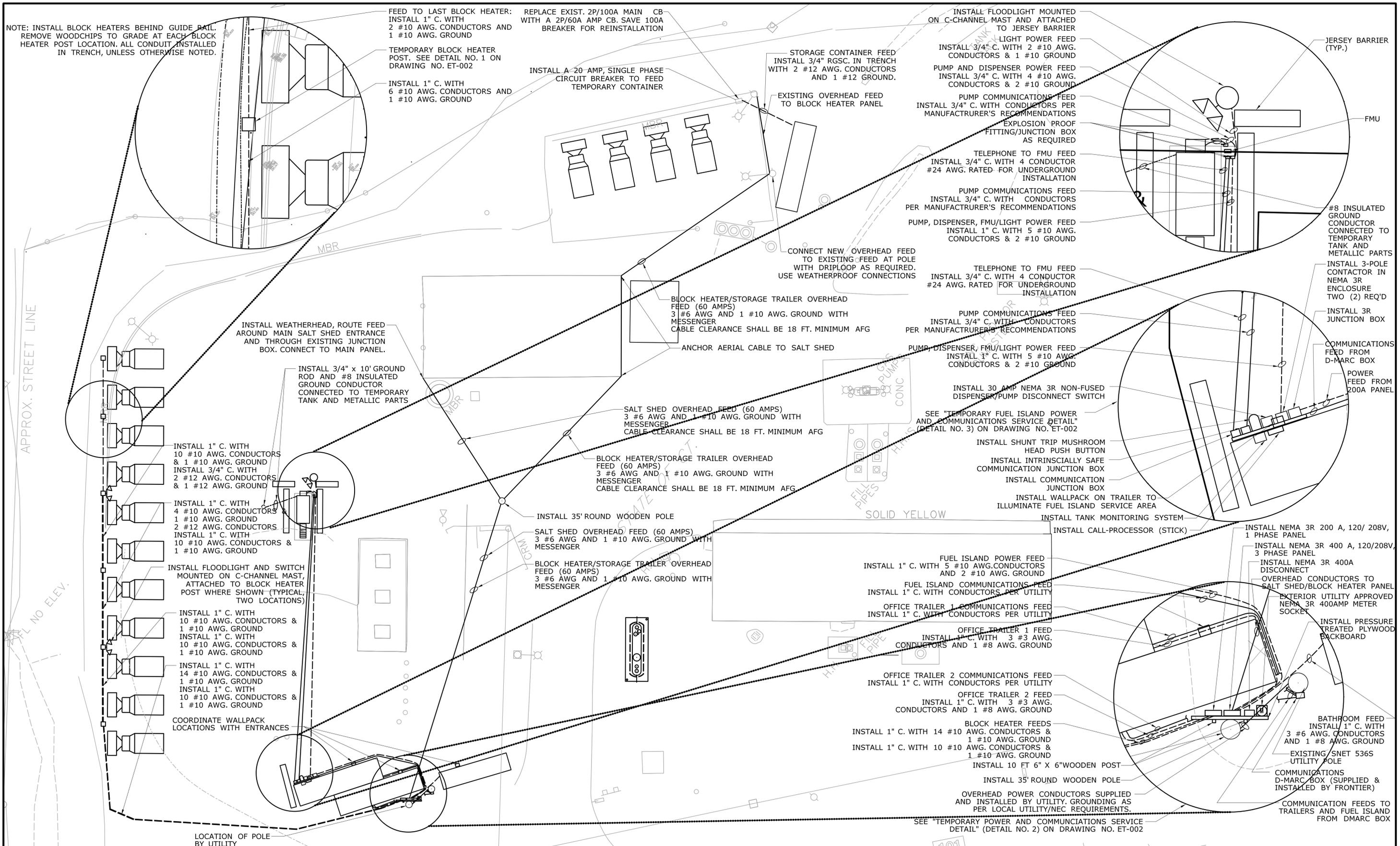
SIGNATURE/BLOCK:
 APPROVED BY: *[Signature]*

OFFICE OF ENGINEERING

PROJECT TITLE:
POMFRET MAINTENANCE FACILITY

TOWN: **POMFRET**
 PROJECT NO. **111-121**
 DRAWING NO. **E-902**
 SHEET NO. **09.27**

DRAWING TITLE:
ELECTRICAL DETAILS 3



NOTE: INSTALL BLOCK HEATERS BEHIND GUIDE RAIL. REMOVE WOODCHIPS TO GRADE AT EACH BLOCK HEATER POST LOCATION. ALL CONDUIT INSTALLED IN TRENCH, UNLESS OTHERWISE NOTED.

FEED TO LAST BLOCK HEATER: INSTALL 1" C. WITH 2 #10 AWG. CONDUCTORS AND 1 #10 AWG. GROUND

REPLACE EXIST. 2P/100A MAIN CB WITH A 2P/60A AMP CB. SAVE 100A BREAKER FOR REINSTALLATION

TEMPORARY BLOCK HEATER POST. SEE DETAIL NO. 1 ON DRAWING NO. ET-002

INSTALL 1" C. WITH 6 #10 AWG. CONDUCTORS AND 1 #10 AWG. GROUND

INSTALL A 20 AMP, SINGLE PHASE CIRCUIT BREAKER TO FEED TEMPORARY CONTAINER

STORAGE CONTAINER FEED INSTALL 3/4" RGSC. IN TRENCH WITH 2 #12 AWG. CONDUCTORS AND 1 #12 GROUND.

EXISTING OVERHEAD FEED TO BLOCK HEATER PANEL

INSTALL FLOODLIGHT MOUNTED ON C-CHANNEL MAST AND ATTACHED TO JERSEY BARRIER

LIGHT POWER FEED INSTALL 3/4" C. WITH 2 #10 AWG. CONDUCTORS & 1 #10 GROUND

PUMP AND DISPENSER POWER FEED INSTALL 3/4" C. WITH 4 #10 AWG. CONDUCTORS & 2 #10 GROUND

PUMP COMMUNICATIONS FEED INSTALL 3/4" C. WITH CONDUCTORS PER MANUFACTURER'S RECOMMENDATIONS

EXPLOSION PROOF FITTING/JUNCTION BOX AS REQUIRED

TELEPHONE TO FMU FEED INSTALL 3/4" C. WITH 4 CONDUCTOR #24 AWG. RATED FOR UNDERGROUND INSTALLATION

PUMP COMMUNICATIONS FEED INSTALL 3/4" C. WITH CONDUCTORS PER MANUFACTURER'S RECOMMENDATIONS

PUMP, DISPENSER, FMU/LIGHT POWER FEED INSTALL 1" C. WITH 5 #10 AWG. CONDUCTORS & 2 #10 GROUND

TELEPHONE TO FMU FEED INSTALL 3/4" C. WITH 4 CONDUCTOR #24 AWG. RATED FOR UNDERGROUND INSTALLATION

PUMP COMMUNICATIONS FEED INSTALL 3/4" C. WITH CONDUCTORS PER MANUFACTURER'S RECOMMENDATIONS

PUMP, DISPENSER, FMU/LIGHT POWER FEED INSTALL 1" C. WITH 5 #10 AWG. CONDUCTORS & 2 #10 GROUND

INSTALL 30 AMP NEMA 3R NON-FUSED DISPENSER/PUMP DISCONNECT SWITCH

SEE "TEMPORARY FUEL ISLAND POWER AND COMMUNICATIONS SERVICE DETAIL" (DETAIL NO. 3) ON DRAWING NO. ET-002

INSTALL SHUNT TRIP MUSHROOM HEAD PUSH BUTTON

INSTALL INTRINSICALLY SAFE COMMUNICATION JUNCTION BOX

INSTALL COMMUNICATION JUNCTION BOX

INSTALL WALLPACK ON TRAILER TO ILLUMINATE FUEL ISLAND SERVICE AREA

INSTALL TANK MONITORING SYSTEM

INSTALL CALL-PROCESSOR (STICK)

FUEL ISLAND POWER FEED INSTALL 1" C. WITH 5 #10 AWG. CONDUCTORS AND 2 #10 AWG. GROUND

FUEL ISLAND COMMUNICATIONS FEED INSTALL 1" C. WITH CONDUCTORS PER UTILITY

OFFICE TRAILER 1 COMMUNICATIONS FEED INSTALL 1" C. WITH CONDUCTORS PER UTILITY

OFFICE TRAILER 1 FEED INSTALL 1" C. WITH 3 #3 AWG. CONDUCTORS AND 1 #8 AWG. GROUND

OFFICE TRAILER 2 COMMUNICATIONS FEED INSTALL 1" C. WITH CONDUCTORS PER UTILITY

OFFICE TRAILER 2 FEED INSTALL 1" C. WITH 3 #3 AWG. CONDUCTORS AND 1 #8 AWG. GROUND

BLOCK HEATER FEEDS INSTALL 1" C. WITH 14 #10 AWG. CONDUCTORS & 1 #10 AWG. GROUND

INSTALL 1" C. WITH 10 #10 AWG. CONDUCTORS & 1 #10 AWG. GROUND

INSTALL 10 FT 6" X 6" WOODEN POST

INSTALL 35' ROUND WOODEN POLE

OVERHEAD POWER CONDUCTORS SUPPLIED AND INSTALLED BY UTILITY. GROUNDING AS PER LOCAL UTILITY/NEC REQUIREMENTS.

SEE "TEMPORARY POWER AND COMMUNICATIONS SERVICE DETAIL" (DETAIL NO. 2) ON DRAWING NO. ET-002

INSTALL NEMA 3R 200 A, 120/ 208V, 1 PHASE PANEL

INSTALL NEMA 3R 400 A, 120/208V, 3 PHASE PANEL

INSTALL NEMA 3R 400A DISCONNECT

OVERHEAD CONDUCTORS TO SALT SHED/BLOCK HEATER PANEL

EXTERIOR UTILITY APPROVED NEMA 3R 400AMP METER SOCKET

INSTALL PRESSURE TREATED PLWOOD BACKBOARD

BATHROOM FEED INSTALL 1" C. WITH 3 #6 AWG. CONDUCTORS AND 1 #8 AWG. GROUND

EXISTING SNET 536S UTILITY POLE

COMMUNICATIONS D-MARC BOX (SUPPLIED & INSTALLED BY FRONTIER)

COMMUNICATION FEEDS TO TRAILERS AND FUEL ISLAND FROM DMARC BOX

APPROX. STREET LINE

PL NO ELEV.

LOCATION OF POLE BY UTILITY

| | | | | | |
|---|---|---|---|---|---|
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

FC
JMK
SCALE IN FEET
0 20 40
SCALE 1"=20'

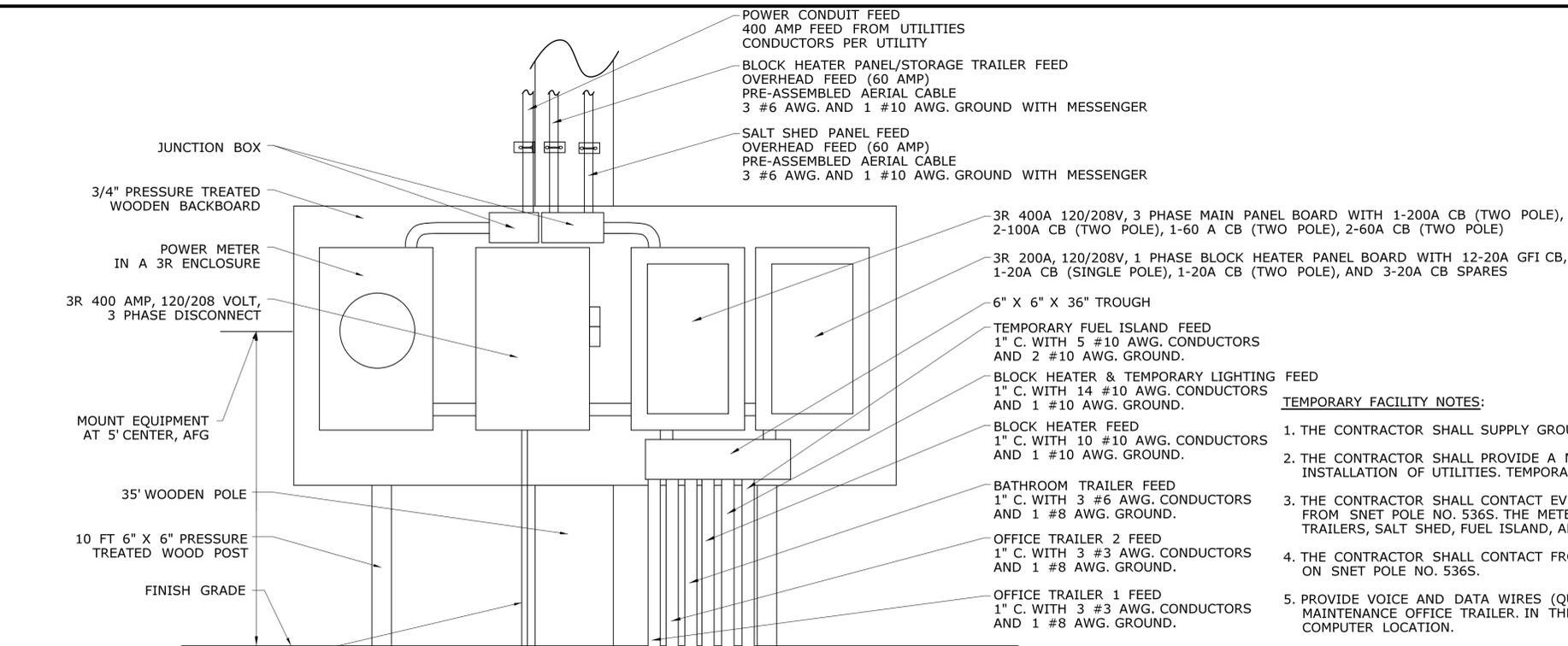
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

OFFICE OF ENGINEERING
APPROVED BY: *[Signature]*

POMFRET MAINTENANCE FACILITY

POMFRET
TEMPORARY POWER SITE PLAN

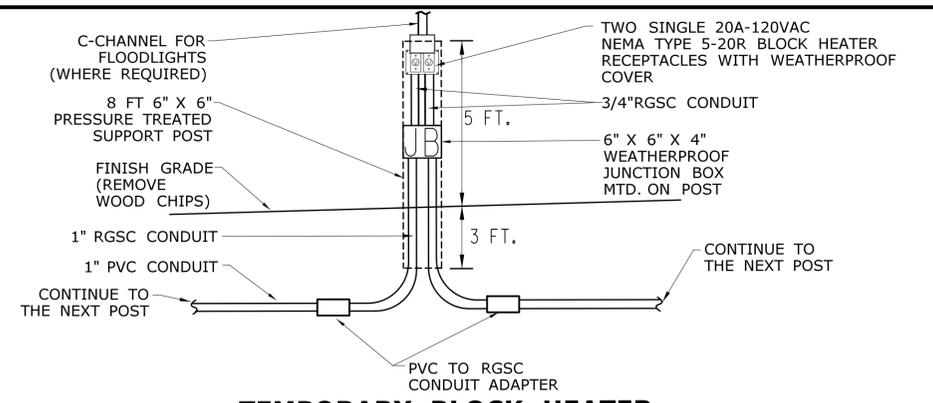
111-121
ET-001
09.28



TEMPORARY POWER AND COMMUNICATIONS SERVICE DETAIL

NOT TO SCALE

2
ET-002



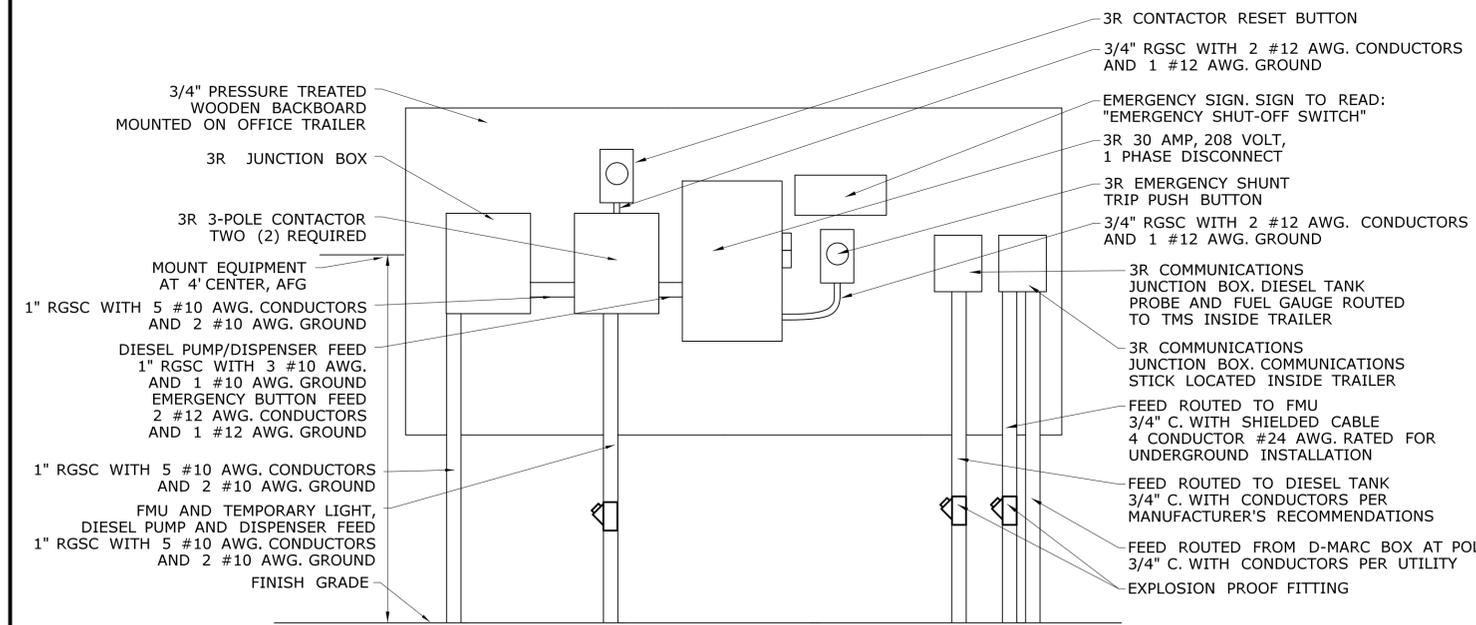
TEMPORARY BLOCK HEATER DETAIL

NOT TO SCALE

1
ET-002

TEMPORARY FACILITY NOTES:

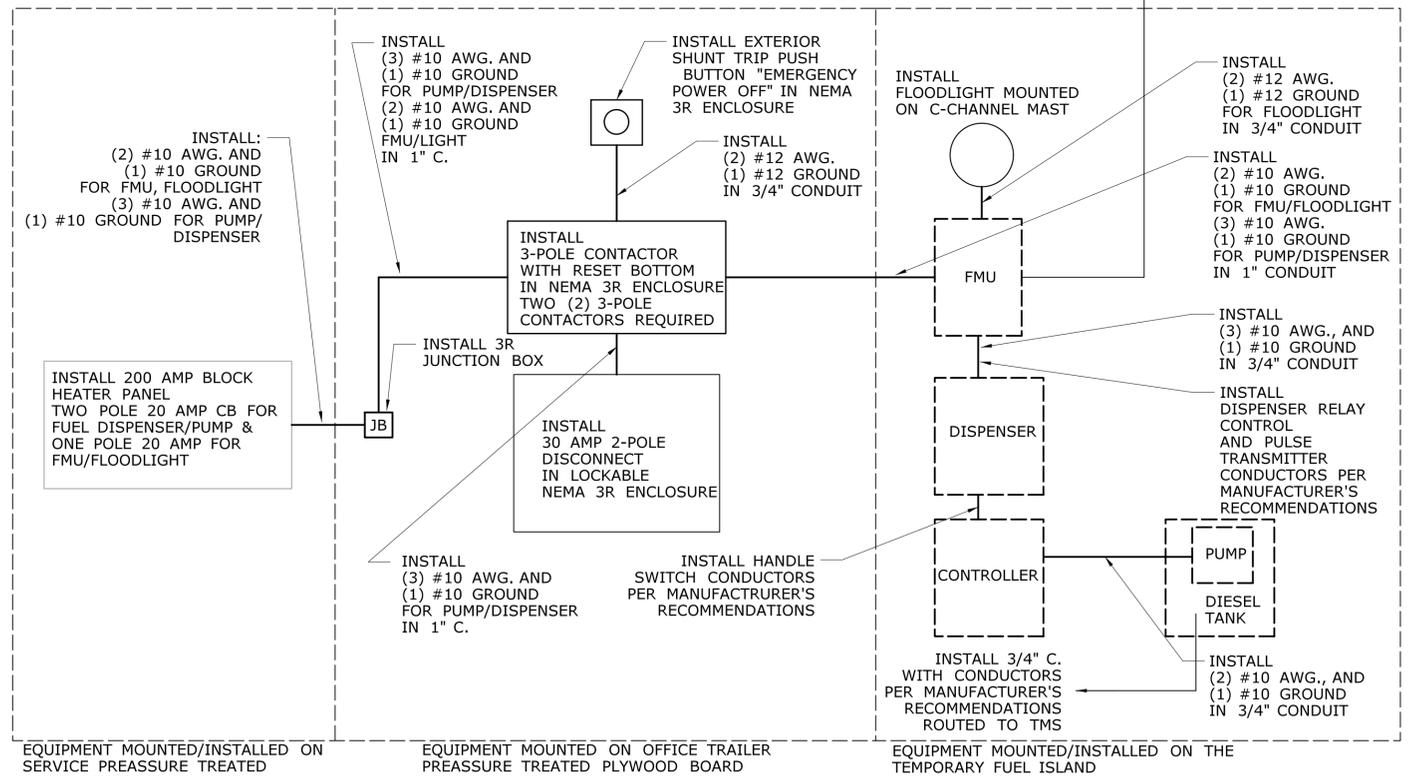
1. THE CONTRACTOR SHALL SUPPLY GROUNDING FOR TEMPORARY FACILITIES AS PER NEC REQUIREMENTS.
 2. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 1 MONTH ADVANCE NOTICE TO UTILITY COMPANIES FOR ARRANGING THE INSTALLATION OF UTILITIES. TEMPORARY FACILITIES SHALL BE FULLY OPERATIONAL PRIOR TO FACILITY CONSTRUCTION ACTIVITIES.
 3. THE CONTRACTOR SHALL CONTACT EVERSOURCE TO ARRANGE SUPPLYING A 208V/400A/3-PHASE TEMPORARY METERED SERVICE FROM SNET POLE NO. 536S. THE METERED SERVICE SHALL FEED THE MAIN PANEL WHICH WILL FEED THE RESTROOM AND OFFICE TRAILERS, SALT SHED, FUEL ISLAND, AND TEMPORARY/PERMANENT BLOCK HEATER AREA.
 4. THE CONTRACTOR SHALL CONTACT FRONTIER COMMUNICATIONS TO ARRANGE TEMPORARY TELEPHONE AND COMMUNICATIONS ON SNET POLE NO. 536S.
 5. PROVIDE VOICE AND DATA WIRES (QUANTITY AS REQUIRED) FROM FRONTIER DMARC BOX TO EACH TEMPORARY MAINTENANCE OFFICE TRAILER. IN THE TRAILER, PROVIDE A VOICE WIRE FOR EACH PHONE AND A DATA LINE FOR EACH COMPUTER LOCATION.
 6. PROVIDE VOICE & DATA (QUANTITY AS REQUIRED) FROM DMARC BOX TO COMMUNICATIONS STICK LOCATED INSIDE TRAILER.
- INSTALL 3/4" C WITH SHIELDED CABLE 4 CONDUCTOR #24 AWG. RATED FOR UNDERGROUND INSTALLATION. FEED ROUTED TO COMMUNICATIONS TELEPHONE JACK



TEMPORARY FUEL ISLAND POWER AND COMMUNICATIONS SERVICE DETAIL

NOT TO SCALE

3
ET-002



TEMPORARY FUEL ISLAND BLOCK DIAGRAM DETAIL

NOT TO SCALE

4
ET-002

FINAL DESIGN REVIEW

| | |
|-------------------|-----|
| DESIGNER/DRAFTER: | FC |
| CHECKED BY: | JMK |
| SCALE AS NOTED | |

Plotted Date: 8/6/2015

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

OFFICE OF ENGINEERING

APPROVED BY: *[Signature]*

Filename: ...VFD_MSH_ELE_0111_0121_ET002.dgn

PROJECT TITLE:
POMFRET MAINTENANCE FACILITY

TOWN:
POMFRET

DRAWING TITLE:
TEMPORARY POWER DETAILS

PROJECT NO.: **111-121**

DRAWING NO.: **ET-002**

SHEET NO.: **09.29**