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**Note:** This index may not include all drawings or may contain errors. For the most up-to-date information, please refer to the original documents.
# Maintenance Facility Lighting Fixtures Schedule

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<td>LED LIGHTING FIXTURES.</td>
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## General Notes:

1. **ALL LED LIGHTING SHALL BE SUPPLIED WITH AVAILABLE POWER FEED ACCESSORIES FROM THE MANUFACTURER FIXTURE ACCESSORIES SHALL BE ORDERED AS REQUIRED TO COMPLY WITH LOCAL BUILDING CODES CONSULT MANUFACTURERS FOR CURRENT CATALOG NUMBERS.**

2. **DESIGN IS BASED ON CATALOG NUMBERS LISTED IN SUBMITTED FIXTURES ARE DIFFERENT FROM 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 WATERPROOF FIXTURES AND BATTERY BACKUP ACCESSORIES WHERE INDICATED ON THE PLANS CATALOG NUMBERS ARE BASES OF DESIGN ONLY AND ARE SUBJECT TO CHANGE TO COMPLY WITH THE PLAN AND SPEC.**

4. **ALL LIGHT FIXTURES SHALL QUALIFY FOR POTENTIAL UTILITY REIMBURSEMENTS.**
THE GENERATOR DIESEL TANK SIZE SHALL BE MINIMUM 332 GALLONS FOR 48-HOUR OPERATION.

3. THE CONTRACTOR SHALL PROVIDE MANUAL SHUTDOWN LOCATED EXTERNAL TO THE DIESSEL ENCLOSURE AND SHOULD BE APPROPRIATELY IDENTIFIED.

4. SEE DRAWING NO. E-540 FOR EXACT LOCATION OF GENERATOR PAD.

5. THE GENERATOR IDLE AND MAXIMUM SIZE SHALL BE AS SPECIFIED BY THE GENERATOR MANUFACTURER.

6. INSTALL 3/4" X 10' BURIED GROUND ROD AND BOND TO GENERATOR ENCLOSURE USING #6 BARE COPPER GROUND.
1. SEE SITE PLAN E-100 FOR EXTERIOR LIGHTING INFORMATION.

2. EXIT SIGNS SHALL BE UNSWITCHED (WIRED BEFORE THE SWITCH) AND POWERED BY THE CLOSEST INTERIOR LIGHTING CIRCUIT.

3. REFER TO DRAWING NO. E-002 FOR LIGHTING FIXTURE, OCCUPANCY SENSORS, AND SWITCH CONTROL SYMBOLS. REFER TO DRAWING NO. E-201 FOR OCCUPANCY SENSOR NOTES.

4. REFER TO DRAWING NO. E-003 FOR LIGHTING FIXTURE SCHEDULE AND MOUNTING HEIGHT DETAILS.

5. PROVIDE MARKINGS ON EXTERIOR OF EMERGENCY LIGHT FIXTURE TO MAKE READILY APPARENT FROM GROUND LEVEL. PROVIDE A RED DOT OR DISTINCT MARKING APPROVED BY ENGINEER).

6. BATTERY PACKS FOR TYPE JE LIGHT FIXTURES SHALL BE MOUNTED OUTSIDE THE WASH BAY, ON THE ADJACENT WALL IN THE BAY AREA.

7. CEILING MOUNTED OCCUPANCY SENSORS IN WASH BAY AREAS SHALL NOT OVERLAP. ADJUST SENSITIVITY TO RANGE SHOWN.

8. SENSOR COVERAGE PATTERNS AT FLOOR LEVEL ARE 23' DIAMETER.

9. PROVIDE BATTERY PACKS FOR TYPE JE LIGHT FIXTURES TO RANGE SHOWN (TYPICAL, ADJUST SENSITIVITY TO RANGE SHOWN). INTERFERE WITH THE DOOR OR DOOR OPERATION (TYPICAL, AT DOOR LOCATIONS).

10. THE WASH BAY, ON THE ADJACENT WALL IN THE BAY AREA, SHALL NOT OVERLAP. ADJUST SENSITIVITY OF WALL MOUNTED OCCUPANCY SENSORS IN BAY AREA SHALL NOT OVERLAP. ADJUST SENSITIVITY TO RANGE SHOWN.

11. EXIT SIGNS SHALL BE SUSPENDED (WIRED BEFORE THE SWITCH) AND POWERED BY THE CLOSEST INTERIOR LIGHTING CIRCUIT.

12. EXIT SIGNS SHALL BE UNSWITCHED (WIRED BEFORE THE SWITCH) AND POWERED BY THE CLOSEST INTERIOR LIGHTING CIRCUIT.

13. EXIT SIGNS SHALL BE UNSWITCHED (WIRED BEFORE THE SWITCH) AND POWERED BY THE CLOSEST INTERIOR LIGHTING CIRCUIT.

14. EXIT SIGNS SHALL BE UNSWITCHED (WIRED BEFORE THE SWITCH) AND POWERED BY THE CLOSEST INTERIOR LIGHTING CIRCUIT.

15. EXIT SIGNS SHALL BE UNSWITCHED (WIRED BEFORE THE SWITCH) AND POWERED BY THE CLOSEST INTERIOR LIGHTING CIRCUIT.
MATCH LINE

DRAWING NOTES:
1. ALL CONCEALED CONDUIT IN OFFICE CORE SHALL BE EMT.
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-202 FOR MOUNTING HEIGHT DETAILS.
3. INSTALL LED FIXTURES WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
4. EXIT SIGNS SHALL BE POWERED BY THE CLOSEST INTERIOR LIGHTING CIRCUIT. EXIT SIGNS SHALL BE UNSWITCHED (WIRED BEFORE THE EMERGENCY EXIT). PROVIDE MARKING OR IDENTIFICATION TO DETERMINE EXIT ROUTE.
5. 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. SHALL BE LOCATED A MINIMUM OF SIX (6) FEET FROM HVAC SUPPLY/RETURN VENTS.
   3. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SENSORS MOUNTED OVER DOORWAYS SHALL BE PLACED ONE SINGLE SENSOR, AUXILIARY RELAYS SHALL BE USED IN CONJUNCTION WITH A 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.
   4. THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING THE REQUIRED NUMBER OF POWER PACKS:
      A. ONE POWER PACK IS REQUIRED FOR EACH CONTROLLED CIRCUIT.
      B. POWER PACK SUPPLY CAPACITY IS DEPENDENT ON MANUFACTURER'S INSTALLATION GUIDE FOR MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO MANUFACTURER'S INSTALLATION GUIDE FOR MAXIMUM NUMBER OF SENSORS CONNECTED TO POWER PACK.
   5. OCCUPANCY SENSOR LOCATIONS SUBJECT TO CHANGE TO OPTIMIZE PERFORMANCE.
   6. OCCUPANCY SENSOR LOCATIONS SUBJECT TO CHANGE TO OPTIMIZE PERFORMANCE.
   7. LIGHTING CONTROL SWITCH FOR AREAS BY WINDOWS.
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-203 for Lighting Fixture, Outlets, Occupancy Sensors, and Switches. Refer to Drawing No. E-400 for Mounting In-Depth Details.

5. Provide Markers on Exterior of Emergency Light Fixtures to Make Egress Awareness. For Ground Level, Provide a Red Dot or Battery. (HE)


7. Adjust Minimality of Ceiling Mounted Occupancy Sensors so That Sensor Coverage Patterns at Floor Level are 23' Diameter.
DRAWING NOTES:

1. REFER TO DRAWING NO. E-902 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 BREAKERS. BLOCK HEATER RECEPTACLES SHALL BE CONNECTED TO RELAY SWITCHES THAT ACTIVATE THE RECEPTACLES 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'-0" (TYPICAL TO BOTTOM OF JOIST), EXCEPT BETWEEN GARAGE DOORS (15'-6" EL.).

DRAWING KEY:

SEE NOTES 4 & 5 (TYPICAL, ALL BLOCK HEATER RECEPTACLES)
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. Install block heater receptacles with GFI circuit breakers. Block heater receptacles shall be connected to relay switches that activate the block heater relay box. The switch shall be located in the unoccupied area adjacent to the garage. The switch shall be provided at each workbench location. The switch shall not be tampered with.

4. See "Column Penetration Detail" No. 6 on Drawing E-902 for block heater mounting installation information.

5. Mounting height of heat detectors in bays shall be 20' EL. (TYPICAL, TO BOTTOM OF JOIST), EXCEPT BETWEEN GARAGE DOORS (15'-6" EL.).

6. Provide (2) duplex receptacles (4 outlets) at each workbench location.

7. Install heat detectors away from rails where applicable.

8. See "Column Penetration Detail" No. 6 on Drawing E-902 for block heater mounting installation information.

9. Mounting height of heat detectors in bays shall be 20' EL. (TYPICAL, TO BOTTOM OF JOIST), EXCEPT BETWEEN GARAGE DOORS (15'-6" EL.).
POMFRET MAINTENANCE FACILITY

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 push button to close the door.

PLANNED THE CONDITIONS OF ACTUAL QUANTITIES IN NO WAY WARRANTED TO INDICATE INVESTIGATIONS BY THE STATE AND IS BASED ON LIMITED QUANTITIES OF WORK, SHOWN ON THESE SHEETS.

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION OFFICE OF ENGINEERING
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 INSTALL SAFE PUSH BUTTONS WHEN MOUNTED ON COLUMNS.
4. ALL CONTROL, WARNING, ID¼ Buttons, Door Contacts etc. 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:
MECHANICAL ROOM NOTES:
1. See mechanical sheets for exact location of all mechanical appearances.
2. See drawing no. E-500 for light fixture locations.
3. Provide hand-operated switches for all 2 phase motor starters.
4. See mechanical room details.
5. Install emergency shut off switches for the boilers and water heaters.

ELECTRICAL/COMM ROOM NOTES:
1. Fire retardant plywood shall be painted black and installed in all electrical and comm room walls from 2' to 8'.
2. Refer to drawing no. E-601 for communication details.
3. The contractor shall furnish and install #4 and #6 copper conductors to the main panel from new ground bars to communication backbone. Refer to drawing no. E-111.
4. Install two RJ31X telephone receptacles in the proximity of the shaker for fire alarm dedicated phone lines. See note no. 5.
5. Install control for GFI lighting contactor. Switch shall be two-position type ("manual" and "auto"), attach photo eye 9" to exterior of building above the roof line without penetrating roof. See note no. 6.

Installing emergency shut off switches for the boilers and water heaters is required.

In all electrical and comm room walls from 2' to 8', fire retardant plywood shall be painted black and installed.

Refer to drawing no. E-601 for communication details.

The contractor shall furnish and install #4 and #6 copper conductors to the main panel from new ground bars to communication backbone. Refer to drawing no. E-111.

Install two RJ31X telephone receptacles in the proximity of the shaker for fire alarm dedicated phone lines. See note no. 5.

Install control for GFI lighting contactor. Switch shall be two-position type ("manual" and "auto"), attach photo eye 9" to exterior of building above the roof line without penetrating roof. See note no. 6.

Fuel Island Power Equipment

See electrical note no. 2.

See note no. 5.

See Note No. 6.
### Maintenance Facility Power Panel "LP" 110 VAC / 208 VAC 3 PH., 4 WIRE, SOLID NEUTRAL

**General Notes:**
1. **Breaker Sizes:** Subject to change based on the equipment submitted on the design. The contractor's circuit breakers shall be of the same type as those in the drawings but may differ in size.
2. The final specification adjustment of breaker sizes shall be coordinated with the electrical engineer.
3. Breakers may be changed in size as a result of the contractor's equipment design.

**Service Characteristics:**
- **Complete Load (VA):**
- **Location:** M9A, M9C, LOCATION ONLY
- **Location:** ELECTRIC ROOM FEED FROM MEP

#### Circuit Breaker Panel
- **Location:** 5D-SCREW MOUNTING
- **Rating:** 22KAIC MIN.
- **Approved by the designer. Changes**

#### Panel Schedules

<table>
<thead>
<tr>
<th>Circuit Breaker Panel</th>
<th>Load (KVA)</th>
<th>Service Location</th>
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**Service Characteristics:**
- **Complete Load (VA):**
- **Location:** M9A, M9C, LOCATION ONLY
- **Location:** ELECTRIC ROOM FEED FROM MEP

#### Circuit Breaker Panel
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#### Circuit Breaker Panel
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## Maintenance Facility Power Panel "MDP"

### Branch Circuit Breakers

- **Load (KVA):**
  - **Panel LP1:** 1.60
  - **Panel MM:** 4.00
  - **Panel OP1:** 4.00
  - **Panel SP:** 2.00
  - **Panel LP2:** 3.00
  - **Panel SP2:** 2.00
  - **Panel PPM:** 3.50
  - **Panel PPM:** 2.00

- **Load (Amps):**
  - **Panel LP1:** 6.75
  - **Panel MM:** 6.75
  - **Panel OP1:** 6.75
  - **Panel SP:** 6.75
  - **Panel LP2:** 6.75
  - **Panel SP2:** 6.75
  - **Panel PPM:** 3.00
  - **Panel PPM:** 3.00

- **Service Characteristics:**
  - 200 Amp Main Breaker
  - Surface Mounting
  - 225 Amp Main Bus
  - 22 KAIC Min.

### Sheet No.

- **LA:** 20
- **LB:** 20
- **LC:** 20

### Service Comments

- Branch circuit breakers shall be rated at 20 kVA minimum.

---

**Central Note:**

Breaker sizes subject to change upon the submission and acceptance of the equal equipment. Equipment submitted for the first time must meet the manufacturer's specifications of the equipment submitted, with the exception that equipment shall be agreed upon. Breaker sizes shall be coordinated with the design specification. Adjustments of specific equipment that does not meet equipment manufacturers specifications shall be at the contractor's expense. Equivalency equipment shall be the contractor's expense.

---

**Signed:**

- **Designer/Drafter:** JMK
- **Project Title:** Maintenance Facility Power Panel "MDP"
- **Drawing Title:** Panel Schedules - 2
- **Office of Engineering:** State of Connecticut
- **Department of Transportation:** Office of Engineering
FIRE ALARM DIAGRAM

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

2. FIRE ALARM WIRING SHALL BE, CLASS "A" ADDRESSABLE. AS A GUIDE:

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

4. FIRE ALARM SYSTEM APPURTENANCES SHALL COMPLY WITH MANUFACTURER SPECIFICATIONS.

5. FIRE ALARM SYSTEM SHALL BE FM GLOBAL APPROVED AND SHALL BE INSTALLED IN ACCORDANCE TO FM GLOBAL DATA SHEETS 5-30 AND 5-46.

6. FIRE ALARM SYSTEM APPURTENANCES SHALL COMPLY WITH ADA REQUIREMENTS.

7. FIRE ALARM SYSTEM SHALL BE FM GLOBAL APPROVED AND SHALL BE INSTALLED IN ACCORDANCE TO FM GLOBAL DATA SHEETS 5-30 AND 5-46.

8. FIRE ALARM SYSTEM APPURTENANCES SHALL COMPLY WITH MANUFACTURER SPECIFICATIONS.

9. FIRE ALARM SYSTEM SHALL BE FM GLOBAL APPROVED AND SHALL BE INSTALLED IN ACCORDANCE TO FM GLOBAL DATA SHEETS 5-30 AND 5-46.

10. FIRE ALARM SYSTEM APPURTENANCES SHALL COMPLY WITH ADA REQUIREMENTS.

11. FIRE ALARM SYSTEM SHALL BE FM GLOBAL APPROVED AND SHALL BE INSTALLED IN ACCORDANCE TO FM GLOBAL DATA SHEETS 5-30 AND 5-46.

12. FIRE ALARM SYSTEM APPURTENANCES SHALL COMPLY WITH MANUFACTURER SPECIFICATIONS.
NOTE: METHOD 2 SHALL BE USED IF IT IS NOT POSSIBLE TO DRIVE THE ROD USING METHOD 1 DUE TO ROCK OBSTRUCTION.

Project Title: POMFRET

Method 1. Horizontal Ground Rod Installation (0°-45°)
- Copper Grounding Electrode
- Bonding Electrode System
- Copper Conduit Sleeve
- Grounding Bushing
- Grounding Electrode Detail

Method 2. Angled Ground Rod Installation (0°-45°)
- Exothermic Weld
- Copper Grounding Conductor
- Ground Loop/Ground Rod
- Copper Clad

Method 3. Horizontal Ground Rod Installation (45°-90°)
- 3/4" Schedule 80 PVC (Lightning Protection System)
- 1-#1/0 Copper Grounding Conductor
- Copper Clad

Bay Area Grounding Penetration Detail
- Bay Area Grounding Penetration Detail
- Copper Grounding Conductor
- Steel Frame

Office Area Grounding Penetration Detail
- Office Area Grounding Penetration Detail
- Copper Grounding Conductor
- Steel Frame

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 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 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.
LEGEND

1. DIESEL SUBMERSIBLE PUMP AC POWER (2#10 AWG, 1#10 GRND)
2. DIESEL TANK SENSING VALVES (2#12 AWG, 1#12 GRND)
3. DIESEL SUBMERSIBLE PUMP AC POWER (2#10 AWG, 1#10 GRND)
4. DIESEL 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. UNILACO SUBMERSIBLE PUMP AC POWER (2#10 AWG, 1#10 GRND)
7. IN-TANK FLOOD & INTERSTITIAL SENSORS CONDUCTORS FROM TANK MONITORING SYSTEM TO UNILACO TANK (NO. & SIZE OF CONDUCTORS PER MANUFACTURER SPECIFICATIONS)
8. DIESEL DISPENSER AC POWER FROM FMU (NO. & SIZE OF CONDUCTORS PER MANUFACTURER SPECIFICATIONS)
9. UNILACO DISPEN SOR CONTROL FROM FMU (NO. & SIZE OF CONDUCTORS PER MANUFACTURER SPECIFICATIONS)
10. UNILACO DISPE S SOR CONTROL FROM FMU (NO. & SIZE OF CONDUCTORS PER MANUFACTURER SPECIFICATIONS)
11. FMU (2#12 AWG, 1#12 GRND)
12. FMU AND TANK MONITORING SYSTEM COMMUNICATIONS IN LIGHTWEIGHT CONDUITS (2#12 AWG, 1#12 GRND) - 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.

IN ACCORDANCE WITH NFPA 70.

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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.
INSTALL SHUNT TRIP MUSHROOM HEAD PUSH BUTTON

INSTALL 3/4" ROSE WITH THREE (3) #10 AWG CONDUITS

INSTALL 3/4" ROSE WITH THREE (3) #10 AWG CONDUITS

INSTALL 1/2" ROSE WITH THREE (3) #10 AWG CONDUITS

INSTALL A 1X 2X 4X 3" SS BARRIER BETWEEN HIGH VOLTAGE AND LOW VOLTAGE THROUGH.

INSTALL TANK MONITORING SYSTEM INTO FIRE ISLAND PANEL DP-1.

INSTALL TANK MONITORING SYSTEM INTO FIRE ISLAND PANEL DP-1.

INSTALL BARRIER BETWEEN LOW VOLTAGE AND LOW VOLTAGE FOR INTRINSICALLY SAFE CONDUCTORS.

INSTALL TANK MONITORING CABLE TO INTRINSICALLY SAFE JUNCTION BOX.

INSTALL TANK MONITORING CABLE TO INTRINSICALLY SAFE JUNCTION BOX.

INSTALL HIGH VOLTAGE PANEL BOARD.

INSTALL HIGH VOLTAGE PANEL BOARD.

INSTALL HIGH VOLTAGE PANEL BOARD.

INSTALL POWER CONDUIT WITH THREE (3) #12 AWG FOR UNLEADED PUMP.

INSTALL POWER CONDUIT WITH THREE (3) #12 AWG FOR UNLEADED PUMP.

INSTALL POWER CONDUIT WITH THREE (3) #12 AWG FOR UNLEADED PUMP.

INSTALL POWER CONDUIT WITH THREE (3) #12 AWG FOR UNLEADED PUMP.

INSTALL 2" POWER CONDUIT WITH THREE (3) #12 AWG FOR UNLEADED PUMP.

INSTALL 2" POWER CONDUIT WITH THREE (3) #12 AWG FOR UNLEADED PUMP.

INSTALL 2" POWER CONDUIT WITH THREE (3) #12 AWG FOR UNLEADED PUMP.

INSTALL 2" POWER CONDUIT WITH THREE (3) #12 AWG FOR UNLEADED PUMP.

INSTALL 3/4" FMC CONDUIT WITH (3) #10 AWG AND (3) #6 AWG CONDUCTORS.

INSTALL 3/4" FMC CONDUIT WITH (3) #10 AWG AND (3) #6 AWG CONDUCTORS.

INSTALL 3/4" FMC CONDUIT WITH (3) #10 AWG AND (3) #6 AWG CONDUCTORS.

INSTALL TELEPHONE JACK.

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INSTALL A 3'W X 5'H X 1-1/2" LOW VOLTAGE JUNCTION BOX.

INSTALL A 3'W X 5'H X 1-1/2" LOW VOLTAGE JUNCTION BOX.

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INSTALL A 3'W X 5'H X 1-1/2" LOW VOLTAGE JUNCTION BOX.
1. INSTALL DP-1 PANELBOARD OR PANEL ELECTRIC CATALOG NO. 52PR8MRAB OR APPROVED EQUAL. INSTALL DP-1 PANELBOARD, GE CATALOG NO. AQU1302RCXAXB4 OR APPROVED EQUAL. DP-1 SHALL BE EQUIPPED WITH PIANO HINGED TRIMS, COPPER TIN PLATED MAIN LUGS FOR CONDUCTOR INFORMATION ASSOCIATED WITH DP-1 Panel Schedule.

2. INSTALL 1/2" RGSC WITH (1) #10 GROUND AND (3) #6 AWG. AND (3) #12 AWG. INSTALL (1) #10 GROUND WITH 1/2" RGSC WITH (3) #10 GROUND AND (3) #12 AWG.

3. INSTALL SHUNT TRIP CIRCUIT BREAKER IN TYPE 1 ENCLOSURE PANEL MOUNTING SURFACE.

4. INSTALL 3 POLE 50 AMP SHUNT TRIP CIRCUIT BREAKER IN TYPE 1 ENCLOSURE PANEL MOUNTING SURFACE. BRANCH CIRCUIT BREAKERS SHALL BE RATED FOR 22 KAIC.

5. INSTALL 3 POLE 50 AMP SHUNT TRIP CIRCUIT BREAKER IN TYPE 1 ENCLOSURE PANEL MOUNTING SURFACE. BRANCH CIRCUIT BREAKERS SHALL BE RATED FOR 22 KAIC.

6. INSTALL 50 AMP 4 POLE (1) 22 KAIC PUSH BUTTON IN EXTENSION OF BUILDING INTERIOR. INSTALL 3 POLE 50 AMP CONTACTOR ON INTERIOR OF BUILDING TO LOW VOLTAGE ELECTRICAL ROOM.

7. INSTALL SYMBOL FOR INTRINSICALLY SAFE CONDUITS.

8. INSTALL SYMBOL FOR INTRINSICALLY SAFE CONDUITS.

9. INSTALL EMERGENCY PHONE MODEL NO. 393AL-00X IN EXTENSION OF BUILDING.

10. INSTALL EMERGENCY STOP SWITCH INSTALLED IN OFFICE AREA AND ON EXTERIOR OF BUILDING. INSTALL EMERGENCY STOP SWITCH INSTALLED IN OFFICE AREA AND ON EXTERIOR OF BUILDING.

11. INSTALL 1/2" RGSC WITH (1) #10 AWG WIRING SIZE SHALL BE ADJUSTED AS NECESSARY TO REFLECT VOLTAGE DROP.

12. INSTALL 1/2" RGSC WITH (1) #10 AWG WIRING SIZE SHALL BE ADJUSTED AS NECESSARY TO REFLECT VOLTAGE DROP.

13. INSTALL 1/2" RGSC WITH (1) #10 AWG WIRING SIZE SHALL BE ADJUSTED AS NECESSARY TO REFLECT VOLTAGE DROP.

14. INSTALL 1/2" RGSC WITH (1) #10 AWG WIRING SIZE SHALL BE ADJUSTED AS NECESSARY TO REFLECT VOLTAGE DROP.

15. INSTALL 1/2" RGSC WITH (1) #10 AWG WIRING SIZE SHALL BE ADJUSTED AS NECESSARY TO REFLECT VOLTAGE DROP.

16. INSTALL 1/2" RGSC WITH (1) #10 AWG WIRING SIZE SHALL BE ADJUSTED AS NECESSARY TO REFLECT VOLTAGE DROP.

17. INSTALL 1/2" RGSC WITH (1) #10 AWG WIRING SIZE SHALL BE ADJUSTED AS NECESSARY TO REFLECT VOLTAGE DROP.

18. INSTALL 1/2" RGSC WITH (1) #10 AWG WIRING SIZE SHALL BE ADJUSTED AS NECESSARY TO REFLECT VOLTAGE DROP.

19. INSTALL 1/2" RGSC WITH (1) #10 AWG WIRING SIZE SHALL BE ADJUSTED AS NECESSARY TO REFLECT VOLTAGE DROP.

20. INSTALL 1/2" RGSC WITH (1) #10 AWG WIRING SIZE SHALL BE ADJUSTED AS NECESSARY TO REFLECT VOLTAGE DROP.
1. All devices shall be mounted as follows unless otherwise noted:
2. Mount GFCI receptacles adjacent to handicapped signs at ADA accessible height.
3. Countertop GFCI receptacles shall be 8" above countertop measured to the middle of the receptacle. Countertop GFCI receptacles shall be installed within 24" from the edge of the sink.
4. Disconnects for the roof mounted wind monitor fans shall be mounted adjacent to the unit.
5. Where finish tube radiation exists, install bottom of work boxes 2" above finished tube radiation.
6a. All exposed conduit installed in the bay areas, electrical and mechanical rooms at floor level up to and including the upper height of 12 feet above finished floor shall be PVC coated rigid conduit, rated for installation in the areas noted.
6b. All conduit installed in the bay areas shall be in accordance with the National Electrical Code (NEC) Article 300.30.
6c. Mounting height notes:
   1. Center Workbench Lighting Fixtures over workbench locations 7' AFF.
   2. Type "C" fixtures shall be suspended from the bottom of the ceiling. Do not install lighting fixtures for the Counties or Types "A," "B," or "C" within the area.
   3. All devices installed in masonry walls shall be flush mounted in the mechanical equipment. The conduit shall be installed adjacent to the outlet box. The conduit shall be fitted with and extended beyond the 10 foot height to be connected to the equipment.
   4. All fire alarm systems shall be mounted at 18" in the bay areas, and 24" above the finished floor when noted.
   5. All fire alarm systems shall be mounted at 18" in the bay areas, and 24" above the finished floor when noted.
   6. Junction boxes shall be installed in the electrical panel where service for the equipment is derived. The equipment shall be mounted 60" on adjacent wall closest to the electrical panel.
   7. Occupancy sensors shall be mounted as noted in the Bay Areas and in locations where noted.
   8. MOUNTING HILL DETAILS:
   9. All devices shall be mounted as shown on the plans.
   10. Mounting height shall comply with the ADA required height of 48" measured to the center of the device when making adjustments as indicated in mounting height note No. 9.
   11. Door operator disconnects switches shall be installed adjacent to the door operator motor. Combination motor starters shall be mounted 60" on adjacent wall closest to the motor. The starter shall be located on the owner equipment.
   12. Coordinate mounting elevation of receptacles next to sinks in bathrooms with (panels) No. 4-48.
   13. Door operator disconnects switches shall be installed adjacent to the door operator motor. Combination motor starters shall be mounted 60" on adjacent wall closest to the motor. The starter shall be located on the owner equipment.

RECESSED TROFFER LIGHTING IN OFFICE DETAIL

ALLElectric device shall be flush mounted in the mechanical equipment. The conduit shall be installed adjacent to the outlet box. The conduit shall be fitted with and extended beyond the 10 foot height to be connected to the equipment.

Call to Add

Light Switches (where applicable)

PA Speakers, PA Horn

Fire Alarm Annunciator

Receptacles (Type A, B, C)

Communications

Type "C" light fixtures

Type "B" light fixtures

Type "A" light fixtures

Occupancy Sensors

Fire Alarm Annunciator

Drop-down Ceiling

5/12/3 AWG MC Cable

See Note 5

See Note 8
HANDHOLE INSTALLATION NOTES:

1. REMOVE ONLY KNOCKOUTS THAT ARE TO BE USED.
2. GROUP 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 ENGINEER'S APPROVAL IN DETERMINING BEST METHOD OF INSTALLING HANDHOLE DRAINS PRIOR TO INSTALLATION OF SUBJECT DRAINS.
5. DUCT SEAL ALL CONDUITS HOLDING CONDUCTORS, AND CAP ALL SPACE 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 WIRE SHALL BE BONDED TO 1/2" B/G GROUND ROD.

CONDUIT TRENCH

1. CONDUIT (TYP.) SIZE, TYPE AND NUMBER OF CONDUITS AS INDICATED ON ELECTRICAL SITE PLAN REFER TO DRAWING NO. E-100.
2. 12" X 6" KNOCK-OUT (TYP. & SIDES)
3. 12" KNOCK-OUT (TYP. & SIDES)
4. REMOVAL OF METAL CONDUIT, LENGTH AS INDICATED ON DRAWING E-100.
5. REMOVE ONLY KNOCKOUTS THAT ARE TO BE USED.
6. CONDUIT LENGTH AS INDICATED ON DRAWING E-100.

CONCRETE HANDHOLE - TYPE I

1. CONDUIT (TYP.) SIZE, TYPE AND NUMBER OF CONDUITS AS INDICATED ON ELECTRICAL SITE PLAN REFER TO DRAWING NO. E-100.
2. 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).
3. CONTRACTOR SHALL RECEIVE ENGINEER'S APPROVAL IN DETERMINING BEST METHOD OF INSTALLING HANDHOLE DRAINS PRIOR TO INSTALLATION OF SUBJECT DRAINS.
4. DUCT SEAL ALL CONDUITS HOLDING CONDUCTORS, AND CAP ALL SPACE CONDUITS.
5. 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 WIRE SHALL BE BONDED TO 1/2" B/G GROUND ROD.

CONDUIT (TYP.) SIZE, TYPE AND NUMBER OF CONDUITS AS INDICATED ON ELECTRICAL SITE PLAN REFER TO DRAWING NO. E-100.
**Light Pole Foundation Detail**

1. Group site lighting luminaries with separate bond and ground lugs.
2. All hardware used to assemble the light standard, base, and brackets shall be stainless steel. Anchor bolt hardware shall be stainless steel.
3. All hardware used to assemble the light standard, base, and brackets shall be stainless steel. Anchor bolt hardware shall be stainless steel.

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

1. 1 1/4" STEEL CONDUIT FOR CIRCUIT CONDUCTORS
2. ELECTRICAL CONDUITS
3. SITE LIGHTING FIXTURE BASE PLATE FOR FIXTURE - TYPE "L1" AND "L2"

**Column Penetration Detail**

- **Note:** Factory supplied templates must be used when setting anchor bolts. Field verify dimensions before construction.
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**Light Fixture Mounting Detail 1**

- **Note:** Factory supplied templates must be used when setting anchor bolts. Field verify dimensions before construction.
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**Lighting Contactor Diagram**

- **Note:** Factory supplied templates must be used when setting anchor bolts. Field verify dimensions before construction.
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