

**Request for Bids to Provide Electrical Construction
on the West Young Road Development Project**

Posted: August 27, 2025

This Addendum No. 2 shall be considered part of the RFB for the Electrical Construction on West of Young Road Development Project, Project No. 7080, and is intended to correct, change, and/or add to the documents described below. Please make sure to complete the Addenda Acknowledgement form included in the *Required Documents*.

Listed below are additional questions received with answers from SWACO:

Question #1: On drawings E-2 detail 2 shows and individual conduit going to each block heater being fed from 1 breaker per 3 pedestals, in coded note number it says the pedestals need to have a integral loop-feed lugs. Are we utilizing the loop feed lugs or are we to pull the conductors from each pedestal back to the panel?

Answer: You should utilize the loop feed lugs.

Question #2: Will the VFD be part of the dewatering pump skid?

Answer: No, it is a separate skid. See cutsheets provided by SWACO.

Question #3: What size conductors need to be pulled for the pole lights?

Answer: See panel schedules on E-3.

Question #4: Can you provide dimensions of the transformer pad?

Answer: Coordinate with the exact dimensions of a 45kVA, NEMA 3R transformer (~30" x 30").

Question #5: Do all spoils remain on site or do they need to be removed from site?

Answer: All spoils will remain on site within the project limits.

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The following attachments are included in this addendum:

- Drawings for the Overall Power Plan, Security Camera Details

AutoCAD Drawings are available for separate download at [www.swaco.org/Bids.aspx](http://www.swaco.org/Bids.aspx)

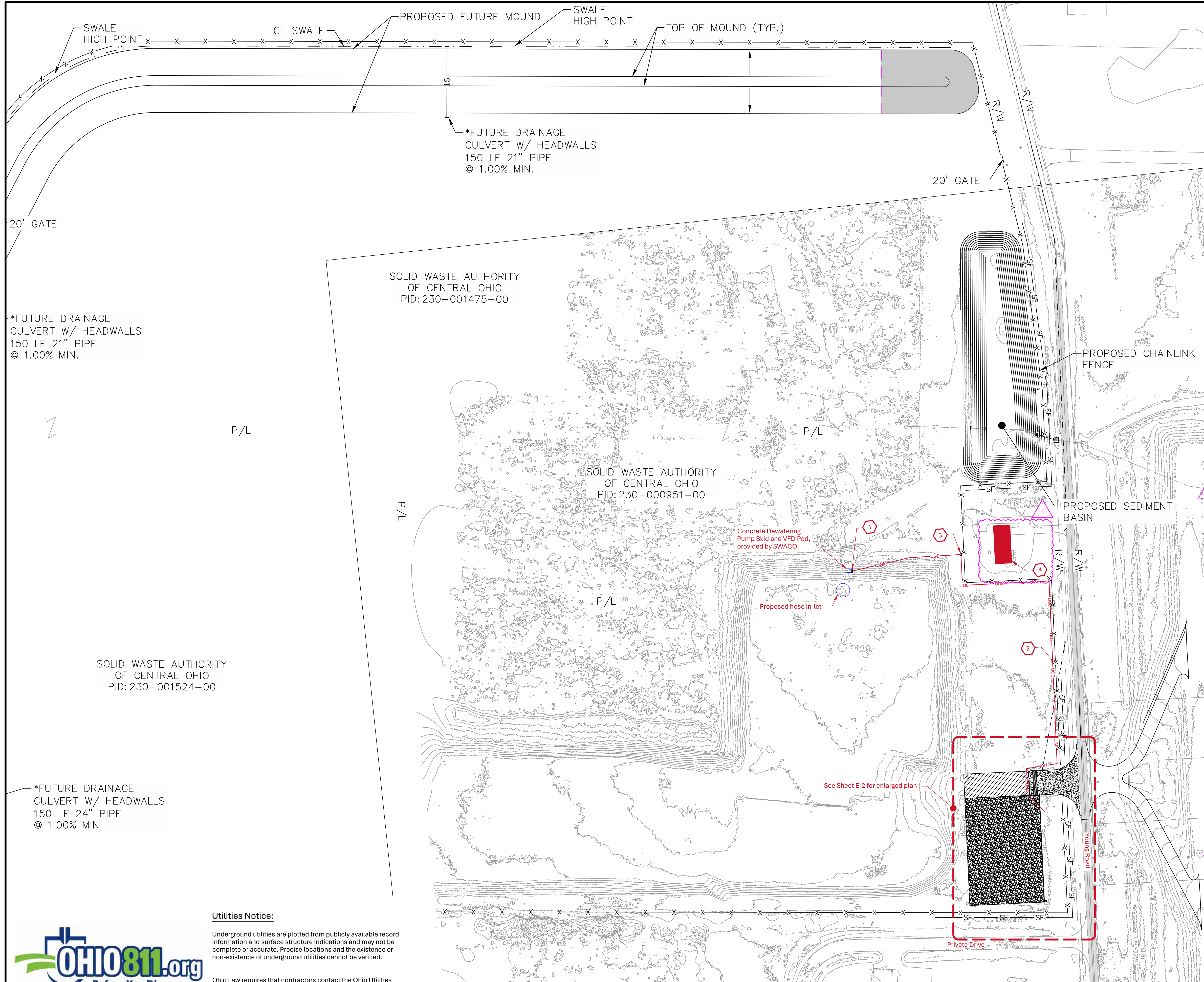
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**The timeframe for questions relating to this RFB is now CLOSED.**

**Bids are due no later than 1:30 p.m., August 29, 2025.**

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++ This completes Addendum No. 2 ++



\*FUTURE DRAINAGE  
CULVERT W/ HEADWALLS  
150 LF 21" PIPE  
@ 1.00% MIN.

\*FUTURE DRAINAGE  
CULVERT W/ HEADWALLS  
150 LF 24" PIPE  
@ 1.00% MIN.

**Utilities Notice:**

Underground utilities are plotted from publicly available record information and surface structure indications and may not be complete or accurate. Precise locations and the existence or non-existence of underground utilities cannot be verified.

Ohio Law requires that contractors contact the Ohio Utilities Protection Service at 811 or 1-800-362-2764 at least 48 hours and no more than ten working days before digging.



**Project Scope of Work:**

The scope of this project encompasses installing a new 480Y/277V, 400A, three-phase power service, the installation of a 75 horsepower (maximum) dewatering pump, twelve truck block heater receptacles, a pole-top mounted security camera, wifi access bridge and Ethernet switch. There is an existing AEP overhead three-phase service that will be extended north on Young Road to the new service location. Service conductors will run underground from the AEP service pole to a new service equipment rack.

**Site Zoning Information:**

Parcel Number: 230-001524-00  
Property Class: E - Exempt  
Land Use: 620 - Exempt Property Owned by County  
Township: Pleasant Township  
Parcel Acreage: 58.10

**Sheet Index:**

- E-1 Overall Power Plan
- E-2 Enlarged Power Plan
- E-3 Electrical Details 1
- E-4 Electrical Details 2

**Pump and VFD Specifications:**

The Electrical Contractor shall be responsible for providing the dewatering pump and variable-frequency drive and making all necessary arrangements for their installation. SWACO will provide a concrete pad as shown on the plan for installation of the pump skid, pump VFD skid and disconnect rack, along with a temporary gravel access road.

**Basis-of-Design:**

1. Godwin CD150S Dri-Prime Pump, 75 HP Weight:
2. Godwin Variable Frequency Drive, NEMA 3R Roll Cage Enclosure Weight:

**Product Submittals:**

Provide submittal package to SWACO and Engineer for approval. Submittals shall be submitted on Contractor company letterhead and contain manufacturer cutsheets that are clearly marked indicating exact model equipment to be provided.

Provide submittals for the following equipment:

- Conductors
- Raceways
- Disconnects
- Panelboards
- Transformers
- Truck Heater Power Pedestals
- Site Lights and Light Poles
- Security Cameras and Network Equipment

**General Design Notes:**

- A. The Electrical Contractor shall be responsible for complying with all applicable Federal, State and Local Code requirements, including, but not limited to, OBC 27 and NFPA 70.
- B. The locations of underground utilities shown are based on above ground structures and record drawings provided to the Engineer and are not necessarily complete or accurate. The Electrical Contractor is responsible for the final location, support, protection and restoration of all existing utilities and appurtenances whether shown on these drawings or not.
- C. All dimensions and tie-ins shall be field verified by the Electrical Contractor before proceeding with any work.
- D. Protect all existing construction, utilities and facilities to remain. Any and all damage during construction and demolition shall be repaired to match existing conditions.
- E. It is solely the responsibility of the Electrical Contractor to follow all applicable safety codes and regulations during construction. Neither the Owner, nor the Engineer are engaged in or supervise construction.
- F. In general, existing equipment and conditions are shaded and new work is shown in **BOLD**.
- G. Maximum conductor sizes listed have been determined using 75°C termination and insulation assumptions. The Electrical Contractor shall be responsible for verifying that all equipment installed is rated for 75°C and shall make conductor size adjustments according to NEC 110.14(C), as required.

**Coded Design Notes:**

1. Provide free-standing disconnect rack according to Detail 3 on Sheet E-4.
2. Provide 3" Sch 40 PVC conduit with pullstring. Route underground raceway tight to fence.
3. Provide 12" x 18" polymer concrete in-ground junction box for future extension of circuit.
4. Provide ETHERHAUL 710 Series 70 GHz Gigabit Wireless Bridge. Attach bridge to southeast exterior corner of existing SWACO trailer. Provide Ethernet connection from wireless bridge to existing interior network enclosure. Route Ethernet cable down exterior of building and enter the trailer through the floor. The network enclosure is located in the same corner of the trailer.



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| MARK | DATE       | REVISION DESCRIPTION                               |
|------|------------|----------------------------------------------------|
| 1    | 2025.08.26 | Addendum 1 - Security Camera and Network Equipment |



Client: SWACO  
Project Name: West Young Rd Electrical Upgrades

Project Address: 6153 Young Rd, Grove City, OH 43123

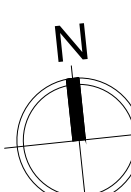
Project Number: 24007  
Date: 2025.08.15  
Engineer: RMJ  
Designer: RMJ  
Drafter: RMJ  
Copyright: 2025

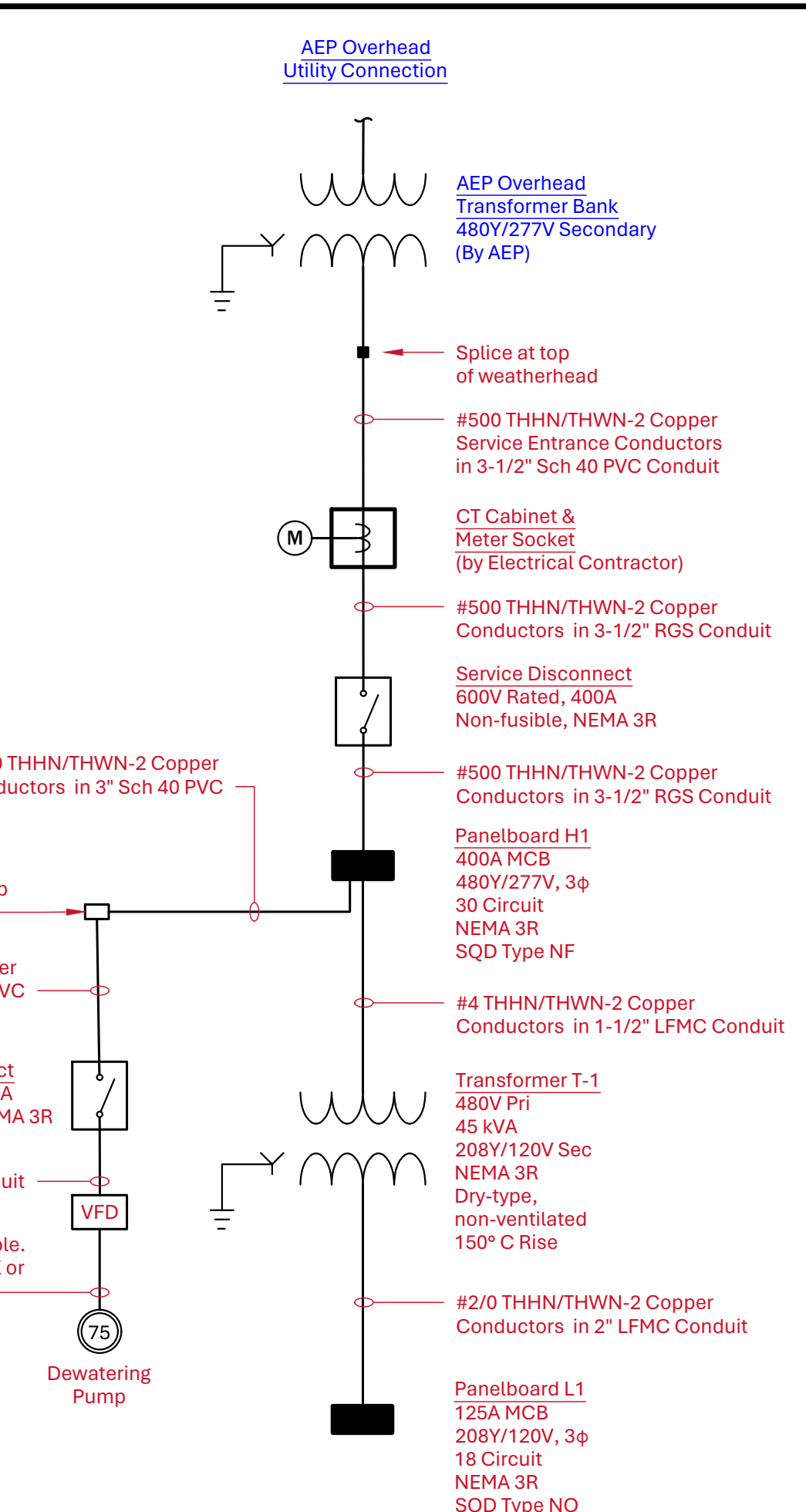
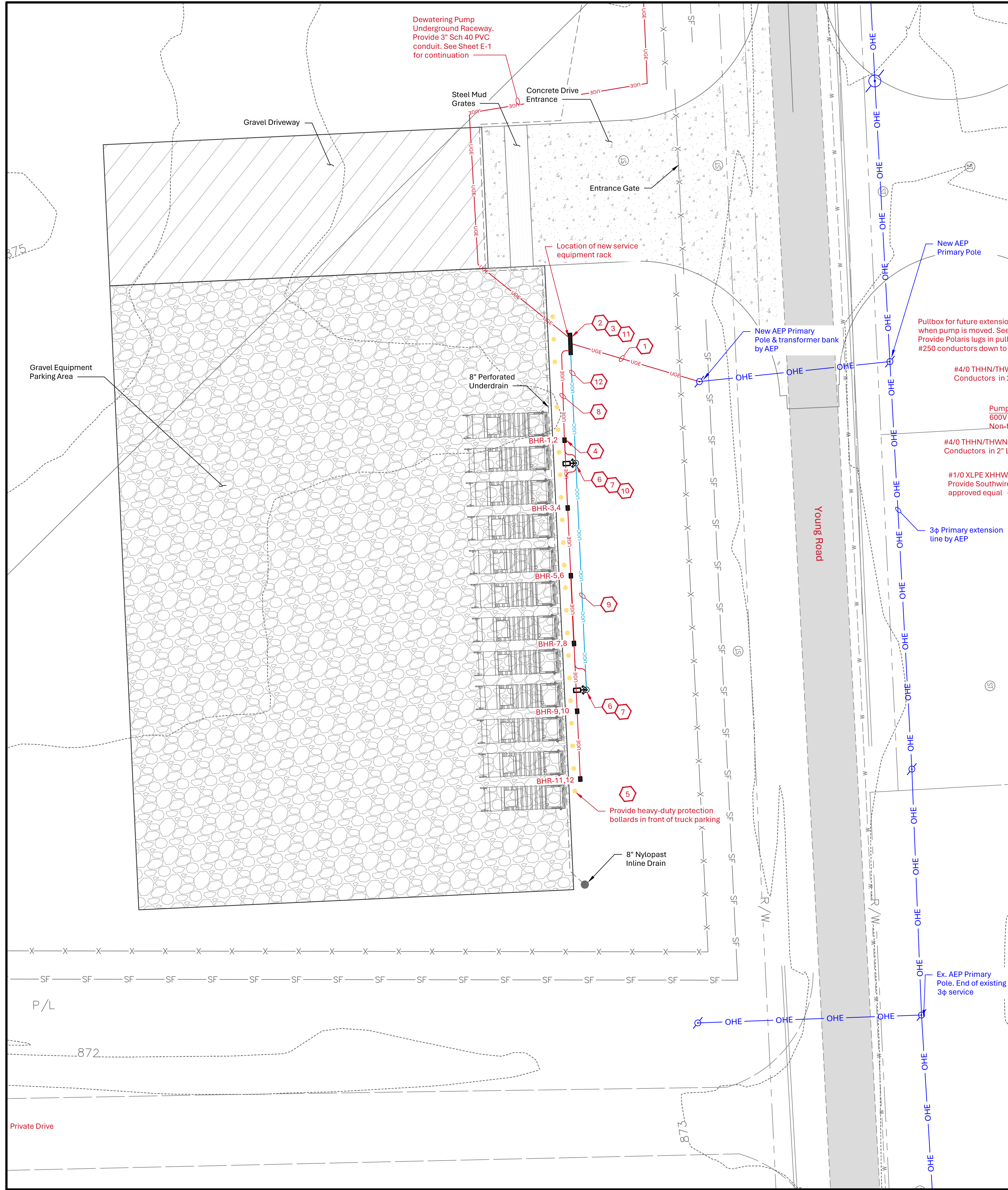
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SCALE: 1" = 100'

Sheet Name: Overall Power Plan

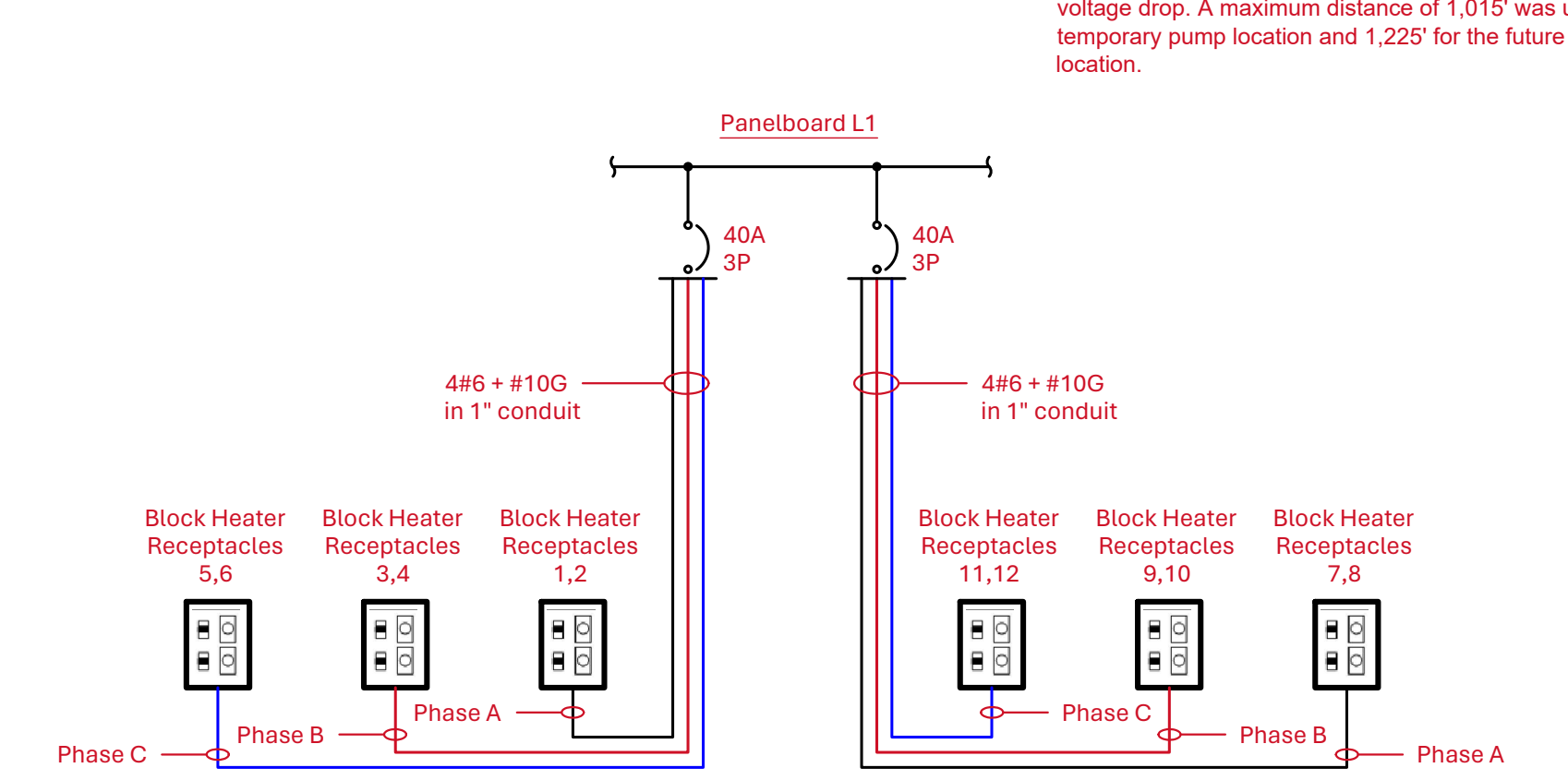
Sheet Number: E-1  
Sheet 01 of 04

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**1 Single Line Diagram**  
Scale: Not Drawn to Scale



**2 Block Heater Recept Wiring Diagram**  
Scale: Not Drawn to Scale

- CODED DESIGN NOTES:**
- Provide 3-1/2" underground Sch 40 PVC conduit from new power rack to new AEP service pole. Turn conduit up at pole and coordinate final connection with AEP.
  - Provide new equipment rack according to Detail 4 on Sheet E-4.
  - Following installation, obtain the available fault current at the service entrance from the Utility. Furnish and apply NFPA 70 compliant warning labels stating the available fault current and the date.
  - Provide block heater receptacle power pedestals, Model U011F010 on 6'-0" pedestal with integral loop-feed lugs to accommodate conductor sizes shown on wiring diagram. Provide from Midwest Electric Products, or approved equal. Pedestal shall have two 20A GFCI receptacles and two 20A circuit breakers. Pedestal shall be direct buried according to Manufacturer's written instructions. Typical of six (6) pedestals.
  - Provide heavy-duty concrete protection bollards, spaced every 8'-0" in front of truck parking area. Install bollards approximately 2'-0" off the gravel parking area. See Detail 2 on Sheet E-3. Typical of twenty-one (21) bollards.
  - Provide concrete base, pole and overhead utility light with integral dusk-to-dawn photocell. Provide light from LSI Industries, or approved equal, and mount at 25' AFG  
LSI SMA LED 28L ACR 3 UNV DIM 40 IMSBT BRZ PM
  - Provide pole with internal raceways and bracket provisions for mounting security cameras.
  - Provide (2) 1" Sch 40 PVC conduits for block heater receptacle power pedestals and (1) 1" Sch 40 PVC conduit for site lights/pole-top receptacle.
  - Provide (1) 1-1/2" Sch 40 PVC conduit with pull-string for future installation of security cameras. Conduit can share same trench as power conduits.
  - Provide AXIS Communications P2735-PLR Panoramic Camera on light pole bracket. Provide pole-top mounted receptacle with in-use weatherproof cover. Provide 12" x 12" NEMA 3R network enclosure, mounted on pole-top for connection of security equipment.
  - Provide AXIS Communications D8208-R Industrial PoE++ Switch inside the rack communications cabinet.
  - Provide (1) 1-1/2" Sch 40 PVC conduit with CAT6E ethernet cable for pole-mounted camera connection. Provide pull-string to allow installation of a second camera in the future.

- SINGLE LINE NOTES:**
- Provide copper conductors, THWN-2, 90°C for all branch circuits from Panelboards.
  - Provide 100% rated neutral. Neutral derating shall not be permitted.
  - Obtain the available fault current from AEP at the conclusion of construction. Furnish and apply NFPA 70 compliant warning labels stating the available fault current and the date.
  - Conductors for dewatering pump are oversized to account for voltage drop. A maximum distance of 1,015' was used for the temporary pump location and 1,225' for the future permanent pump location.



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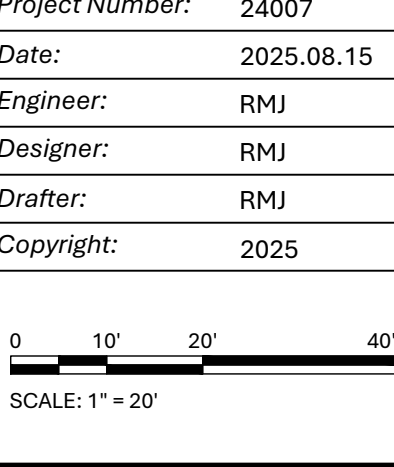
| MARK | DATE       | REVISION DESCRIPTION                               |
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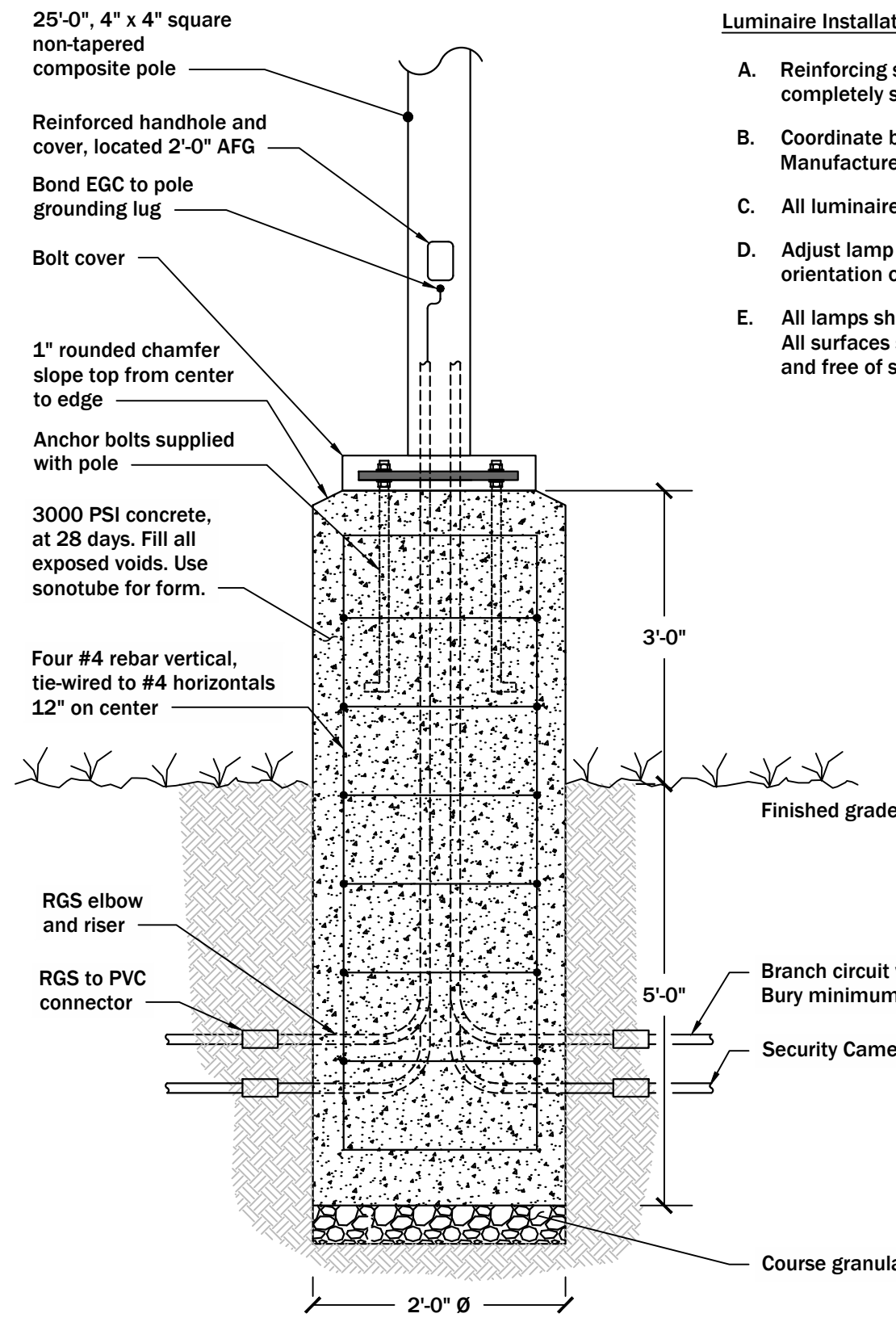
Project Number: 24007  
Date: 2025.08.15  
Engineer: RMJ  
Designer: RMJ  
Drafter: RMJ  
Copyright: 2025



Sheet Name: Enlarged Power Plan

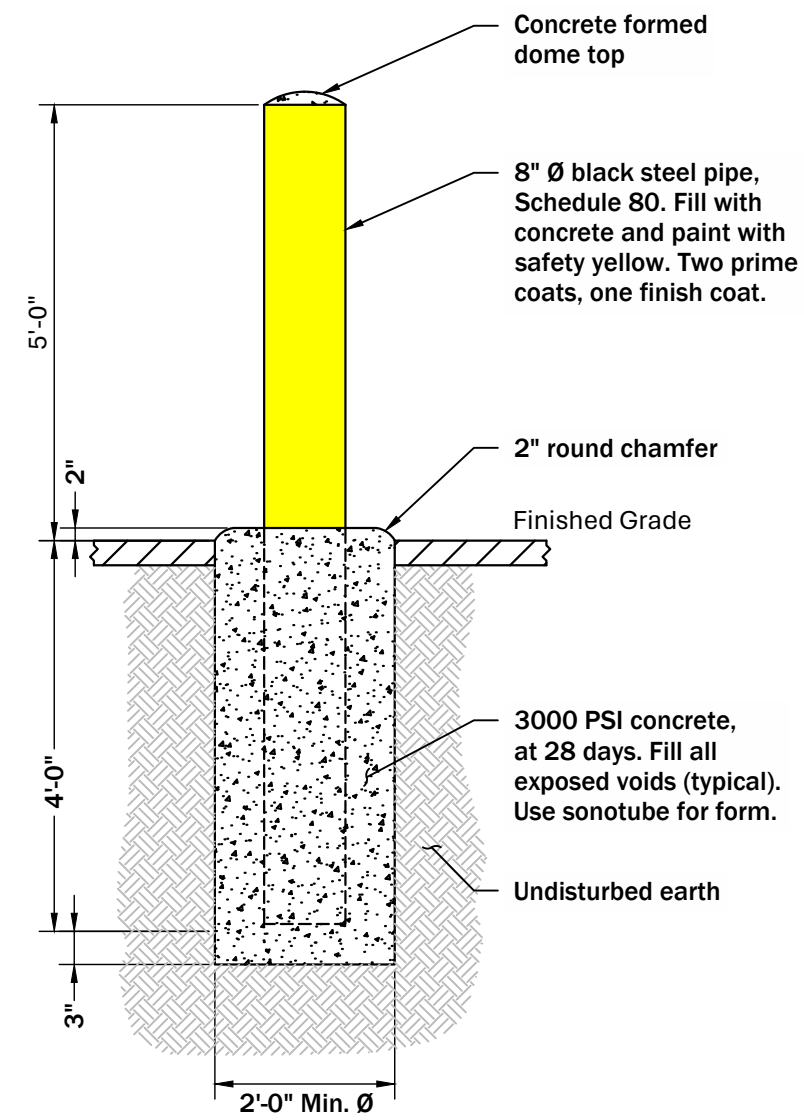
Sheet Number: E-2  
Sheet 02 of 04

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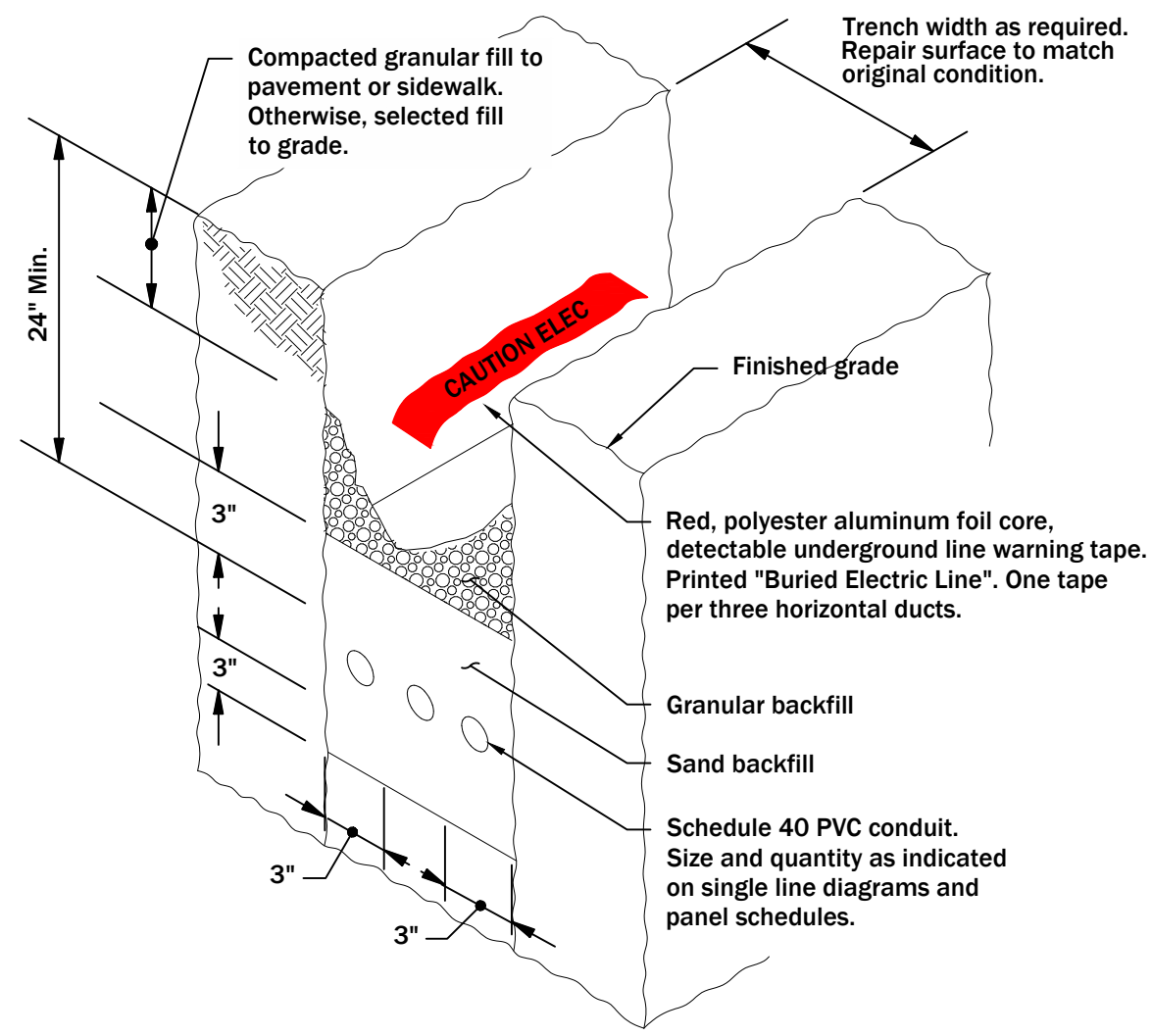
- Luminaire Installation Notes:**
- Reinforcing steel rebar is required but may not be completely shown.
  - Coordinate bolt quantity and placement per Manufacturer's specifications.
  - All luminaires shall be plumb and level.
  - Adjust lamp socket assembly to proper orientation of type iii distribution. All surfaces shall be cleaned of dirt, debris, etc. and free of scratches, dents, etc.
  - All lamps shall be operational prior to inspection.

## 1 Light Pole Foundation



## 2 Heavy Duty Protection Bollard

Scale: Not Drawn to Scale



## 3 Underground Conduits

Scale: Not Drawn to Scale

| Panelboard H1      |             |                        |                      |                               |               |                    |                |  |  |  |  |  | Date: 09.03.2024 |  |
|--------------------|-------------|------------------------|----------------------|-------------------------------|---------------|--------------------|----------------|--|--|--|--|--|------------------|--|
| <b>Voltage:</b>    | 480V / 277V | <b>kAIC Rating:</b>    | 35 kA                | <b>Fed From:</b>              | Service Disc. | <b>Load Types:</b> |                |  |  |  |  |  |                  |  |
| <b>Bus Rating:</b> | 400A MCB    | <b>Location:</b>       |                      | <b>Location Reference:</b>    | E-2           | C                  | Continuous     |  |  |  |  |  |                  |  |
| <b>Phase:</b>      | 3 PH, 4 W   | <b>NEMA Enclosure:</b> | NEMA 3R              | <b>Single-line Reference:</b> | E-2           | NC                 | Non-continuous |  |  |  |  |  |                  |  |
| <b>Neutral:</b>    | 100% Rated  | <b>Mounting:</b>       | Uni-strut Rack Mount |                               |               | L                  | Lighting       |  |  |  |  |  |                  |  |
|                    |             |                        |                      |                               |               | M                  | Motor          |  |  |  |  |  |                  |  |
|                    |             |                        |                      |                               |               | R                  | Receptacle     |  |  |  |  |  |                  |  |

| No. | Load Description     | Load Type | Phase VA | Conductors      | Circuit Breaker |      | Connected kVA |                  |      | Circuit Breaker |      | Conductors | Phase VA        | Load Type | Load Description | No.   |   |
|-----|----------------------|-----------|----------|-----------------|-----------------|------|---------------|------------------|------|-----------------|------|------------|-----------------|-----------|------------------|-------|---|
|     |                      |           |          |                 | Pole            | Trip | A             | B                | C    | Trip            | Pole |            |                 |           |                  |       |   |
| 1   | Dewatering Pump Skid | M         | 26604    | See Single Line | 3               | 125  |               | 41.6             |      |                 | 70   | 3          | See Single Line | C         | Transformer T1   | 2     |   |
| 3   |                      |           | 26604    |                 |                 |      |               | 41.6             |      |                 |      |            |                 |           |                  | 15000 | 4 |
| 5   |                      |           | 26604    |                 |                 |      |               |                  |      | 41.6            |      |            |                 |           |                  | 15000 | 6 |
| 7   | -                    |           |          |                 |                 |      |               |                  |      |                 |      |            |                 |           |                  | 8     |   |
| 9   | -                    |           |          |                 |                 |      |               |                  |      |                 |      |            |                 |           |                  | 10    |   |
| 11  | -                    |           |          |                 |                 |      |               |                  |      |                 |      |            |                 |           |                  | 12    |   |
| 13  | -                    |           |          |                 |                 |      |               |                  |      |                 |      |            |                 |           |                  | 14    |   |
| 15  | -                    |           |          |                 |                 |      |               |                  |      |                 |      |            |                 |           |                  | 16    |   |
| 17  | -                    |           |          |                 |                 |      |               |                  |      |                 |      |            |                 |           |                  | 18    |   |
| 19  | -                    |           |          |                 |                 |      |               |                  |      |                 |      |            |                 |           |                  | 20    |   |
| 21  | -                    |           |          |                 |                 |      |               |                  |      |                 |      |            |                 |           |                  | 22    |   |
| 23  | -                    |           |          |                 |                 |      |               |                  |      |                 |      |            |                 |           |                  | 24    |   |
| 25  | -                    |           |          |                 |                 |      |               |                  |      |                 |      |            |                 |           |                  | 26    |   |
| 27  | -                    |           |          |                 |                 |      |               |                  |      |                 |      |            |                 |           |                  | 28    |   |
| 29  | -                    |           |          |                 |                 |      |               |                  |      |                 |      |            |                 |           |                  | 30    |   |
|     |                      |           |          |                 |                 |      |               | <b>Subtotal:</b> | 41.6 | 41.6            | 41.6 |            |                 |           |                  |       |   |

| Load Calculations       |                |      |                |
|-------------------------|----------------|------|----------------|
| Continuous              | 45,000         | 125% | 56,250         |
| Non-continuous          | -              | 100% | -              |
| Lighting                | -              | 125% | -              |
| Largest Motor           | 79,812         | 125% | 99,765         |
| Remaining Motors        | -              | 100% | -              |
| Receptacles             | -              | 100% | -              |
| Receptacles over 10 kVA | -              | 50%  | -              |
| <b>Totals:</b>          | <b>124,812</b> |      | <b>156,015</b> |

| Total Demand kVA:         |  | 156.0 |
|---------------------------|--|-------|
| Total Demand Amps (480V): |  | 188   |

**Panelboard Notes:**  
1) Provide NF Type panelboard by Square D, or approved equal.

| Panelboard L1      |            |                        |                      |                               |                |                    |                |  |  |  |  |  | Date: 09.03.2024 |  |
|--------------------|------------|------------------------|----------------------|-------------------------------|----------------|--------------------|----------------|--|--|--|--|--|------------------|--|
| <b>Voltage:</b>    | 208Y/120V  | <b>kAIC Rating:</b>    | 10 kA                | <b>Fed From:</b>              | Transformer T1 | <b>Load Types:</b> |                |  |  |  |  |  |                  |  |
| <b>Bus Rating:</b> | 125A MCB   | <b>Location:</b>       |                      | <b>Location Reference:</b>    | E-2            | C                  | Continuous     |  |  |  |  |  |                  |  |
| <b>Phase:</b>      | 3PH, 4W    | <b>NEMA Enclosure:</b> | NEMA 3R              | <b>Single-line Reference:</b> | E-2            | NC                 | Non-continuous |  |  |  |  |  |                  |  |
| <b>Neutral:</b>    | 100% Rated | <b>Mounting:</b>       | Uni-strut Rack Mount |                               |                | L                  | Lighting       |  |  |  |  |  |                  |  |
|                    |            |                        |                      |                               |                | M                  | Motor          |  |  |  |  |  |                  |  |
|                    |            |                        |                      |                               |                | R                  | Receptacle     |  |  |  |  |  |                  |  |

| No. | Load Description             | Load Type | Phase VA | Conductors  | Circuit Breaker |      | Connected kVA |                  |     | Circuit Breaker |      | Conductors  | Phase VA | Load Type | Load Description                  | No. |
|-----|------------------------------|-----------|----------|-------------|-----------------|------|---------------|------------------|-----|-----------------|------|-------------|----------|-----------|-----------------------------------|-----|
|     |                              |           |          |             | Pole            | Trip | A             | B                | C   | Trip            | Pole |             |          |           |                                   |     |
| 1   | Block Heater Receptacles 1-6 | C         | 3300     | 4#1 + #10G  | 3               | 40   | 6.6           |                  |     | 40              | 3    | 4#1 + #10G  | 3300     | C         | Block Heater Receptacles 7-12     | 2   |
| 3   |                              |           | 3300     |             |                 |      | 6.6           |                  |     |                 |      |             | 3300     |           |                                   | 4   |
| 5   |                              |           | 3300     |             |                 |      |               |                  | 6.6 |                 |      |             | 3300     |           |                                   | 6   |
| 7   | Site Lights                  | L         | 400      | 2#12 + #12G | 1               | 20   | 0.9           |                  |     | 20              | 1    | 2#12 + #12G | 500      | R         | Pole-top Recept - Security Camera | 8   |
| 9   | Spare                        |           |          |             | 1               | 20   |               |                  |     | 20              | 1    |             |          |           | Spare                             | 10  |
| 11  | -                            |           |          |             |                 |      |               |                  |     | 20              | 1    |             |          |           | Spare                             | 12  |
| 13  | -                            |           |          |             |                 |      |               |                  |     |                 |      |             |          |           | -                                 | 14  |
| 15  | -                            |           |          |             |                 |      |               |                  |     |                 |      |             |          |           | -                                 | 16  |
| 17  | -                            |           |          |             |                 |      |               |                  |     |                 |      |             |          |           | -                                 | 18  |
|     |                              |           |          |             |                 |      |               | <b>Subtotal:</b> | 7.5 | 6.6             | 6.6  |             |          |           |                                   |     |

| Load Calculations       |               |      |               |
|-------------------------|---------------|------|---------------|
| Continuous              | 19,800        | 125% | 24,750        |
| Non-continuous          | -             | 100% | -             |
| Lighting                | 400           | 125% | 500           |
| Largest Motor           | -             | 125% | -             |
| Remaining Motors        | -             | 100% | -             |
| Receptacles             | 500           | 100% | 500           |
| Receptacles over 10 kVA | -             | 50%  | -             |
| <b>Totals:</b>          | <b>20,700</b> |      | <b>25,750</b> |

| Total Demand kVA:         |  | 25.8 |
|---------------------------|--|------|
| Total Demand Amps (208V): |  | 71   |

**Panelboard Notes:**  
1) Provide NQ Type panelboard by Square D, or approved equal.



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| 1    | 2025.08.26 | Addendum 1 - Security Camera and Network Equipment |



**Project Name:**  
West Young Rd  
Electrical  
Upgrades

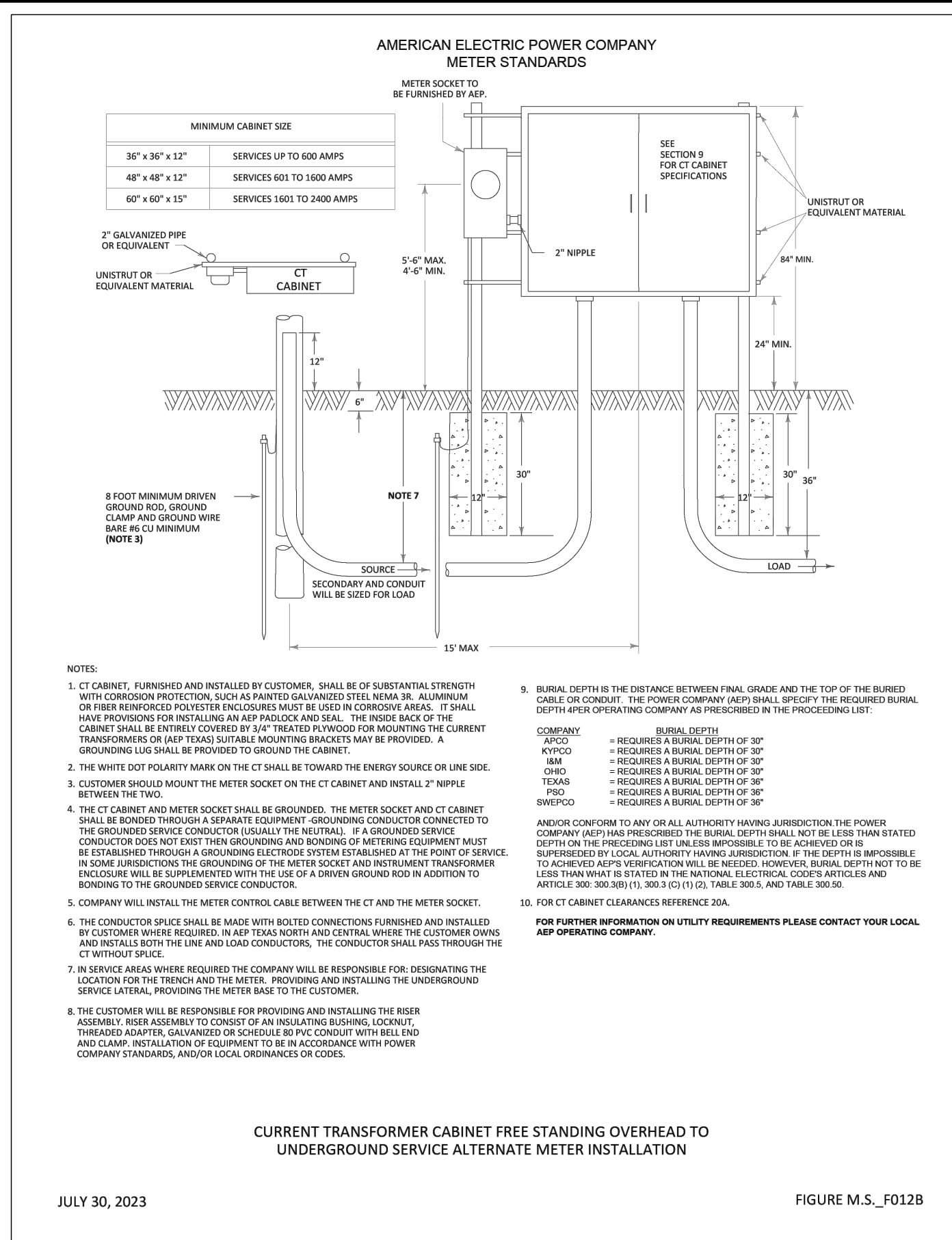
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**Copyright:** 2025

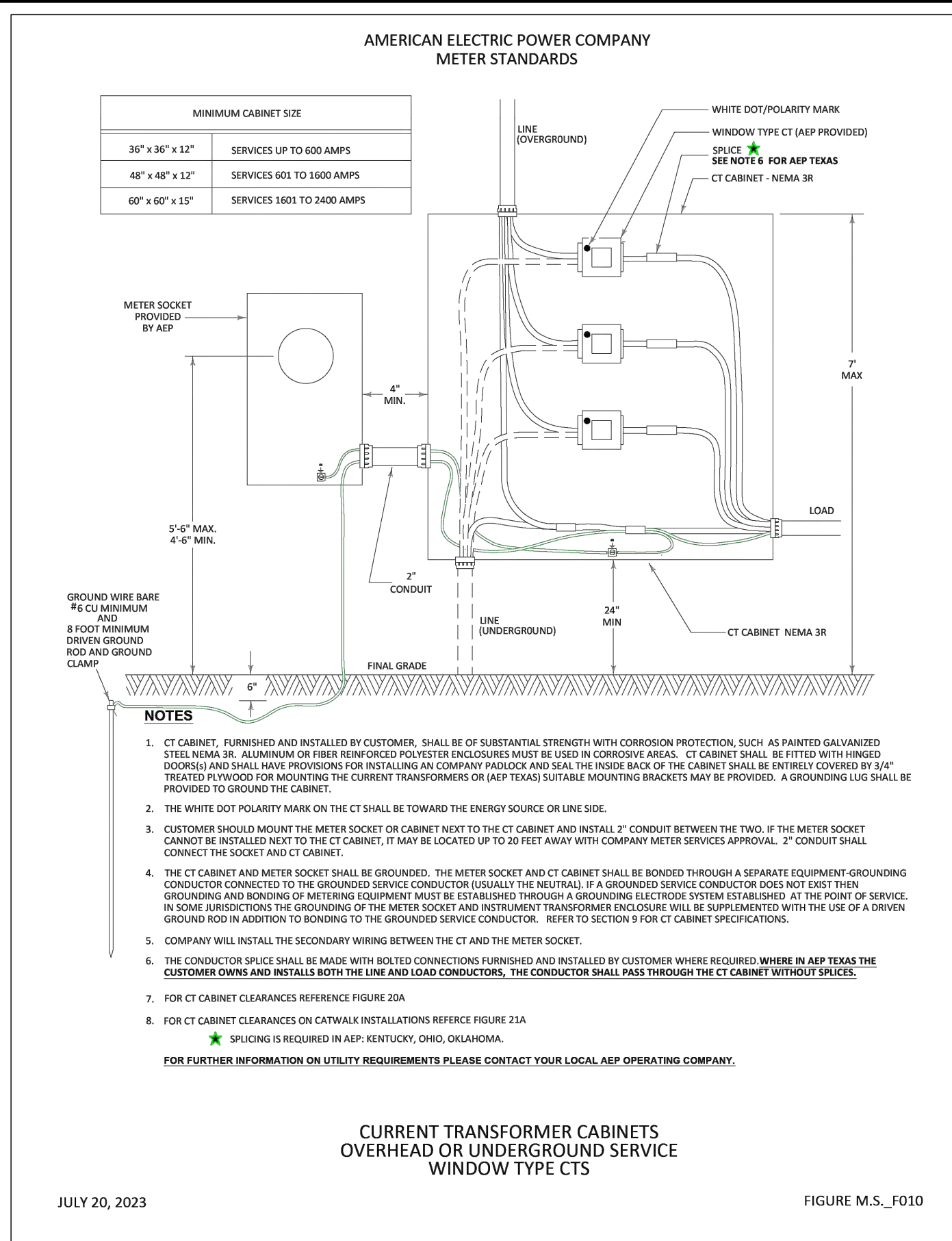
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Electrical  
Details 1

**Sheet Number:**  
E-3  
Sheet 03 of 04

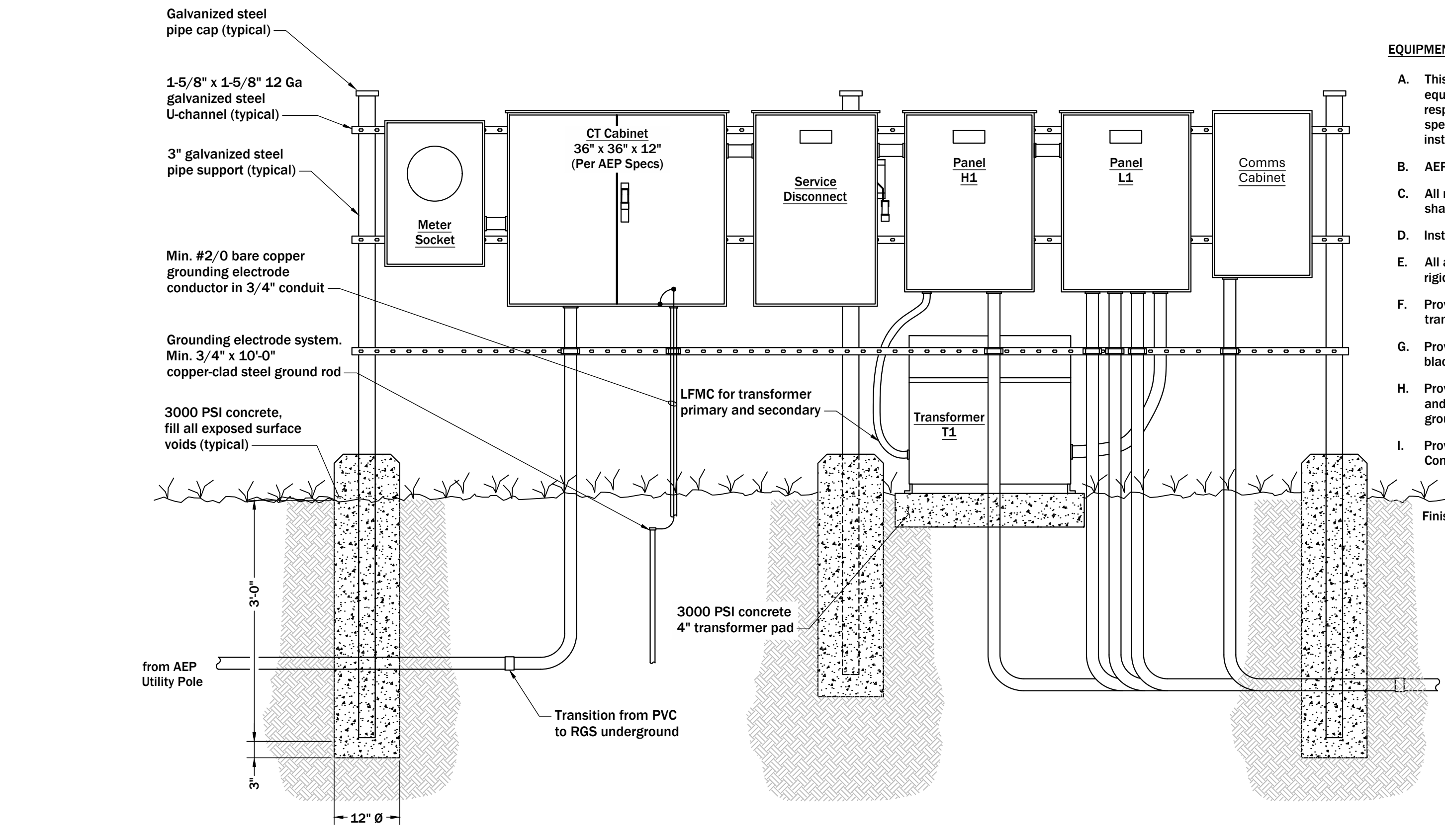
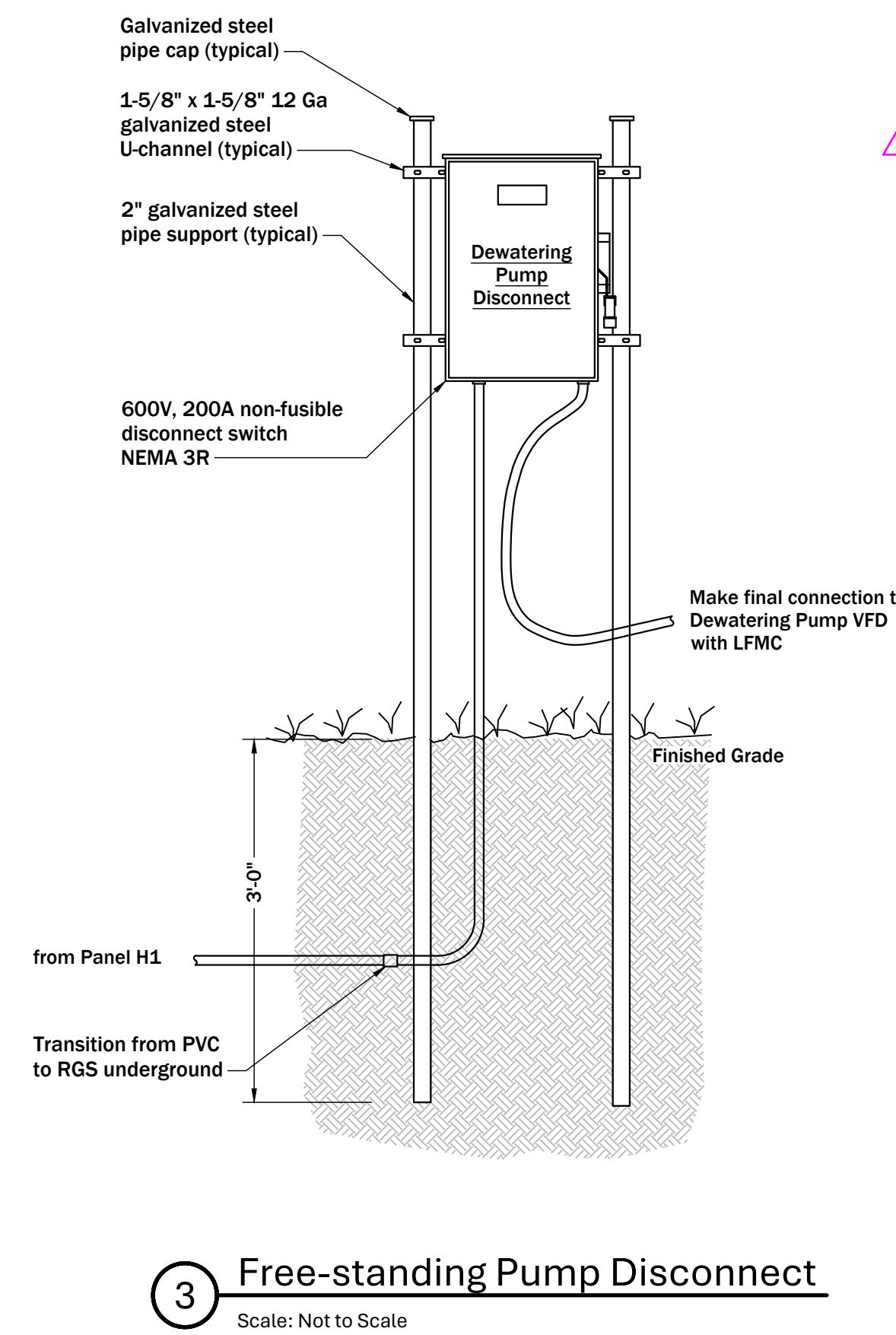
ISSUED FOR BID



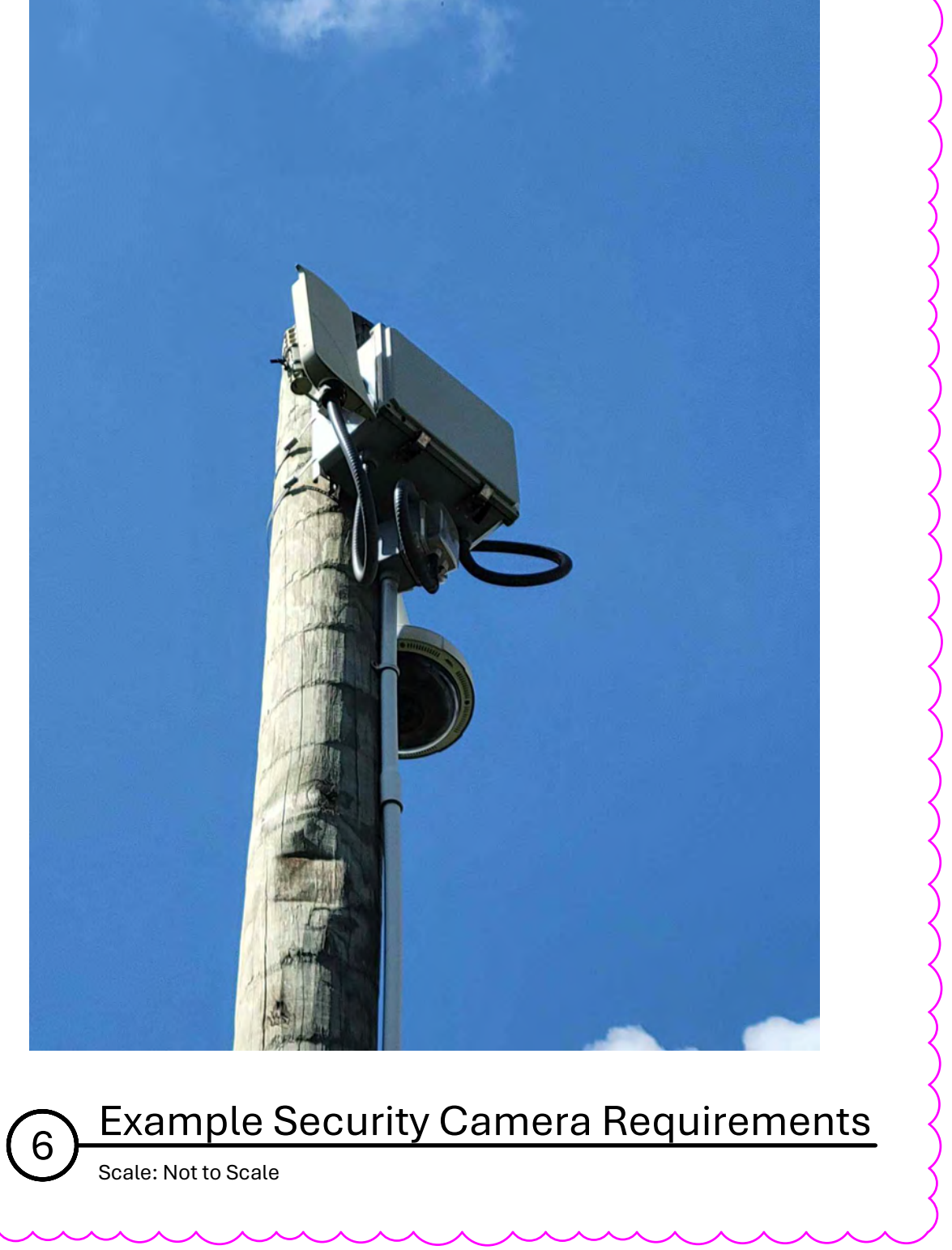
1 AEP Detail 1  
Scale: Not to Scale



2 AEP Detail 2  
Scale: Not to Scale



- EQUIPMENT RACK NOTES:**
- This equipment rack is a general representation of the expected equipment installation. The Electrical Contractor shall be responsible for coordinating the final dimensions based on specific equipment provided and Manufacturer's installation instructions.
  - AEP Standard Details shall take precedence.
  - All rack components, fittings, fasteners and support devices shall be galvanized steel.
  - Install approved watertight fittings on all knockouts.
  - All above ground conduit shall be RGS. Transition from PVC to rigid at the 90° elbow below grade.
  - Provide concrete equipment pad for transformer base. Install transformer behind equipment rack.
  - Provide phenolic plastic nameplates, 1/16 inch thick, engraved black lettering on white background for all rack components.
  - Provide service grounding in accordance with AEP specifications and the latest edition of NEC, Article 250. Provide UL Listed ground clamps, ground rods and grounding conductor.
  - Provide a 24" x 30" galvanized steel electrical box for Communication Equipment.



ISSUED FOR BID



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Sheet Number: E-4  
Sheet 04 of 04