

ADVERTISEMENT FOR BIDS

Sealed proposals will be received in the Office of the Procurement Manager, Greenville Utilities Commission, 401 S. Greene Street, Greenville, North Carolina 27834 until 2:00 PM (EDT) on May 7, 2026, and immediately thereafter publicly opened and read for the furnishing of Boviet Substation Labor & Construction.

Instructions for submitting bids and complete specifications will be available in the Office of the Procurement Manager, Greenville Utilities Commission, 401 S. Greene Street, Greenville, North Carolina during regular office hours, which are 8:30AM – 5:00PM Monday through Friday.

Greenville Utilities Commission reserves the right to reject any or all bids. **Late bids will not be considered.**

SECTION I

GENERAL INSTRUCTIONS FOR FORMAL BIDS

RELATED TO THE PURCHASE OF APPARATUS, SUPPLIES,

MATERIALS, AND EQUIPMENT

1.0 NOTICE TO BIDDERS

Sealed bids, subject to the conditions made a part hereof, will be received in the Office of the Procurement Manager, Greenville Utilities Commission, 401 S. Greene Street, Greenville, North Carolina 27834 until 2:00 PM (EDT) on May 7, 2026, the day of opening. **Bids submitted in a fax or e-mail in response to this Invitation for Bids will not be acceptable. Late Bids will not be considered.**

2.0 STANDARD FORMS REQUIRED

Each bidder must submit a proposal on the enclosed bid forms. **The bid must be signed by an authorized official of the firm. Return only the attached Proposal Form. Do not return the Advertisement for Bids, Instructions to Bidders or Specifications.**

3.0 PREPARATION OF BID

Bids must be in sealed envelopes clearly marked on the outside with the name of the bid and the bid opening date and time. Bid shall be addressed to the Procurement Manager, GREENVILLE UTILITIES COMMISSION, P. O. BOX 1847, 401 S. GREENE STREET, GREENVILLE, NORTH CAROLINA 27835-1847.

4.0 TIME FOR OPENING BIDS

Bids will be opened promptly and read at the hour and on the date set forth in the advertisement in the Office of the Procurement Manager, Greenville Utilities Main Office, 401 S. Greene Street, Greenville, North Carolina. Bidders or their authorized agents are invited to be present.

5.0 DEPOSIT

A deposit is required for this bid.

6.0 NC SALES TAX

Do **not** include NC sales taxes in bid figure; however, Greenville Utilities Commission (GUC) does pay sales tax. Sales tax should be added to the invoice as a separate item.

7.0 FEDERAL EXCISE TAX

GUC is exempt from Federal Excise Tax and will issue a Federal Exemption Certificate upon request to the successful bidder.

8.0 EXCEPTIONS TO BE CLEARLY STATED

If bid is not in strict accordance with Section II, "Specifications," bidder must list or note all exceptions **on the Request for Proposal Form**, otherwise, it is fully understood that the successful bidder will furnish equipment and/or materials exactly as specified. GUC reserves the right to accept or reject bids with noted minor deviations from specifications and to determine the lowest responsible, responsive bid from the standpoint of quality, performance, and price.

9.0 EVALUATION AND AWARD OF BIDS

GUC reserves the right to reject any and all bids, to waive any and all informalities, and to disregard all nonconforming or conditional bids or counter proposals. In evaluating bids, GUC shall consider whether the bids comply with the prescribed requirements, plus all alternates or options requested. GUC reserves the right to include or exclude any option or alternative in GUC's opinion is in GUC's best interests. If a bid is to be awarded, it will be awarded to the lowest responsible, responsive bidder whose evaluation by GUC indicates that the award will be in GUC's best interests. Only firm prices will be considered for award of this bid.

10.0 PROMPT PAYMENT DISCOUNTS

Bidders are urged to compute all discounts into the price offered. If a prompt payment discount is offered, it may be considered in the award of the contract.

11.0 NUMERICAL ERRORS

In the case of a discrepancy between a unit price and the extension (the unit price multiplied by the number of units), the unit price governs. In the case where numerical bids are stated both in numbers and in words, the words govern.

12.0 BID WITHDRAWAL

A bidder must notify GUC in writing of its request to withdraw a bid within seventy-two (72) hours after the bid opening, not including Saturdays, Sundays, or holidays. In order to justify withdrawal, the bidder must demonstrate that a substantial error exists and that the bid was submitted in good faith.

13.0 MINORITY BUSINESS PARTICIPATION PROGRAM

GUC has adopted an Affirmative Action and Minority and Women Business Enterprise Plan (M/WBE) Program. Firms submitting a proposal are attesting that they also have taken affirmative action to ensure equality of opportunity in all aspects of employment, and to utilize M/WBE suppliers of materials and/or labor.

14.0 QUANTITIES

Quantities specified are only estimates of GUC's requirements. GUC reserves the right to purchase more or less than the stated quantities at prices indicated in the submitted Proposal Form based on our actual needs.

15.0 DELIVERY

Shipments will be made to GUC only upon releases from a purchase order issued by GUC in accordance with its current needs.

Time is of the essence with respect to all deliveries under this Agreement.

Delivery of all equipment, materials, or supplies shall be made Free on Board (FOB), customer's site, Boviét Substation, at 35°39'28.9"N 77°20'59.8"W, unless otherwise specified. The agreed price for such equipment, materials, or supplies shall include all costs of delivery and ownership, and risks of loss shall not be transferred from Provider to GUC until express written acceptance of delivery and inspection by GUC. Delivery hours are between 8:00 AM and 4:30 PM Monday-Friday only. **GUC's purchase order number is to be shown on the packing slip or any related documents.** GUC reserves the right to refuse or return any delivery with no purchase order number or which is damaged. GUC will not be charged a restocking fee for any delivery which is refused or returned.

16.0 DELIVERY TIME

Delivery time is to be stated and will be considered in the evaluation of bids. Failure by the successful bidder to meet quoted delivery shall be interpreted as non-compliance with these specifications and may be deemed sufficient cause for removal of the manufacturer and/or distributor from our lists as acceptable manufacturers or bidders.

17.0 CONTRACT PERIOD

TBD.

18.0 MANUFACTURER

Bidder is to specify the manufacturer of items being quoted.

19.0 CONTACT INFORMATION

Questions regarding this bid request should be directed to Cleve Haddock, Procurement Manager, Finance Department at (252) 551-1533, haddocgc@guc.com. **All questions must be received via e-mail by or before 5:00pm (EDT) April 28, 2026.**

20.0 LIQUIDATED DAMAGES

Time is of the essence, and it is critical that the work be performed on schedule and time is allowed for the completion of the work in the Contract Agreement included herewith. Damages for delay shall be at the rate of four-thousand dollars (\$4,000.00) per calendar day for failure of the Contractor to complete the work within the Construction Schedule. No credit shall be given for early completion of the work.

21.0 TERMS AND CONDITIONS

The attached Terms and Conditions apply to all purchases made by Greenville Utilities Commission (GUC) and must be considered as part of the bid proposal.

SECTION II

GREENVILLE UTILITIES COMMISSION

SPECIFICATIONS FOR

BOVIET SUBSTATION LABOR & CONSTRUCTION

**GREENVILLE UTILITIES COMMISSION
GREENVILLE, NORTH CAROLINA
SPECIFICATIONS AND BID DOCUMENTS
FOR LABOR AND CONSTRUCTION OF
BOVIET SUBSTATION
TECHNICAL SPECIFICATIONS**

1.0. Scope

The purpose of this document is to detail the technical specifications and requirements for the installation of the Boviet substation. This includes the installation of the following: steel structures, cable trench, conduit, and ground grid. The substation will be a 115 kV to 15 kV distribution station designed for three 20 MVA (base) power transformers. Only two units will be installed initially. The steel will be tubular steel or wide flange columns installed on drilled pier foundations with aluminum tube bus work and flexible cables for jumpers and leads.

The work shall include furnishing all supervision, labor, tools, equipment, and supplies necessary for the complete installation of the aforementioned materials as shown or called for in the Drawings and/or Specifications.

- 1.1. Bids will be received on one (1) Bid Schedule for Labor and Construction of Boviet Substation Materials.
 - 1.1.1. Labor.
- 1.2. The desired project timeline for completion of work is eight (8) weeks from notice to proceed.
- 1.3. Services by Contractor

The Contractor's Work shall include the following services as necessary to construct the substation:

- 1.3.1. Connect 115 kV and 15 kV power transformer leads. Owner and transformer manufacturer will install and set up transformer on concrete pad.
- 1.3.2. Install eight Owner furnished 15 kV breakers. Installation includes assembly (if necessary) grounding, and power leads.
- 1.3.3. Install two Owner furnished 115 kV circuit switchers. Installation includes assembly, grounding, and power leads.
- 1.3.4. Assemble and erect all Owner furnished steel structures including columns, beams, pedestals, trusses, steel static poles and miscellaneous components necessary to construct a complete station structure in accordance with shop drawings and general arrangement drawings.

- 1.3.5. Assemble, install, and align all Owner furnished group operated and hookstick switches in accordance with the manufacturer's instruction manuals
- 1.3.6. Assemble all Owner furnished bus insulators, arresters, conductors, connectors, and associated hardware in accordance with the material packager's steel erection and general arrangement drawings.
- 1.3.7. Provide qualified personnel to install swaged bus connectors. Contractor is to acquire the installation tool(s) for their use.
- 1.3.8. Contractor will furnish and install control system conduits. Contractor will install Owner furnished cable trench as necessary to interconnect the control cabinets of the transformers, circuit switchers, breakers, reclosers, regulators, relay panels, battery system and miscellaneous electric service apparatus in accordance with the control conduit plans and details. Owner will furnish and install cable and wiring.
- 1.3.9. Install Owner furnished subsurface ground rods, ground grid conductors and exothermic connectors, including bonding to fence perimeter ground, including trenching, backfilling, and proper compaction to designated grade, in accordance with the grounding plans and details.
- 1.3.10. Install all bonds between the subsurface ground grid and all equipment cases, equipment stands, steel structures, pole grounds, arrester grounds, static lines, operator platforms, control cabinets, cable neutrals, and similar conductive surfaces which warrant bonding in accordance with the National Safety Code and in accordance with the grounding plans and details.
- 1.3.11. Furnish and install conduits for circuit exits from exit structure to fence. Owner will furnish, install and terminate power cable. Contractor shall return areas trenched to proper grade and compaction.

2.0 General Conditions

- 2.1 All materials and equipment shall be new.
- 2.2 These Specifications describe the type, size, and characteristics of the various materials and equipment required to be furnished.
- 2.3 Strict adherence to these Technical Specifications is requested to facilitate checking and consideration of the Proposal.
- 2.4 It is the intent of these Technical Specifications that the Boviet substation materials shall be completely and properly installed. Details not mentioned in the Specifications but required for installation shall be furnished and installed by the Contractor.

- 2.5 It is the intent of these Drawings and Specifications that all structures and equipment be installed by the Contractor, except where clearly stated that a specific responsibility lies with others.
- 2.6 All construction shall be performed in a workmanlike manner and shall conform to the Drawings and Specifications. The installation shall conform to the latest editions of the National Electrical Code, North Carolina Building Code, National Electric Safety Code, and National Fire Protection Association Codes.
- 2.7 The Drawings and Specifications are complementary, one to the other. That which is shown on the Drawings or called for in the Specifications shall be as binding as if both called for and shown. The intention of the Drawings and Specifications is to include all labor, materials, transportation, equipment, and any other items necessary to do a complete job.
- 2.8 Where the Contractor fails to make efficient use of materials which may be furnished by the Owner and where said failure results in waste or unnecessary use of materials, the Contractor will be liable to replace such waste and to furnish such additional materials as may be required due to unnecessary use.
- 2.9 If any Owner-furnished equipment or materials are lost or stolen, the Contractor agrees to pay the Commission the reasonable cost of replacing the missing equipment and materials.
- 2.10 In such cases where the nature of the work requires clarification by the Commission, such clarifications shall be furnished by the Commission with reasonable promptness by means of written instructions or Detail Drawings or both. Clarifications and Drawings shall be consistent with the intent of Contract Documents and shall become a part thereof.
- 2.11 Within ten (10) working days after the award of the Contract, the Contractor shall submit for approval a complete list of those items of materials and equipment he is required to furnish for the installation.
- 2.12 All submittals shall be formal and complete and shall include a cover letter or transmittal letter with five (5) prints. All submittals shall be made to Nicholas Peadar, Substation Engineer, 3355 NC Highway 43, Greenville, North Carolina 27834.
- 2.13 Contractor shall be responsible for laying out work. The Contractor shall, immediately upon entering project site for purpose of beginning work, locate all general reference points and take such action as is necessary to prevent their destruction, lay out his own work, and be responsible for any error resulting from his failure to exercise such precaution.
- 2.14 The Contractor shall provide such temporary structures as required for proper storage of materials and equipment. The Contractor shall also provide a temporary electrical lighting and power distribution system of adequate size to properly serve the project. Work shall be installed in a neat and safe manner in accordance with the National Electric Code Article 305 and OSHA regulations.
- 2.15 The Contractor shall comply with all applicable laws and regulations governing this work. The Contractor shall comply with Chapter XXXIII, Section 3304

“Safeguards During Construction,” contained in North Carolina Building Code.

2.16 The Contractor shall be responsible for obtaining and paying for all permits, licenses, certificates, inspections, etc., required for the installation, both permanent and temporary. Permits required by the North Carolina Utilities Commission or environmental regulatory agencies are excluded from this requirement.

2.17 Correction of Work Before Final Payment

Any work, materials, or other parts of the work that have been condemned or declared not in accordance with the Contract by the Commission shall be removed from the work site by the Contractor and shall be immediately replaced by new work in accordance with the Contract at no additional cost to the Commission. Work or property of others or the Contractor which is damaged or destroyed by virtue of such faulty work shall be made good at the expense of the Contractor whose work is faulty. Correction of condemned work described above shall be commenced within twenty-four (24) hours after receipt of notice from the Commission and shall be pursued to completion.

3.0 Standards

All equipment and materials covered by these Specifications and all tests applied thereto shall, unless otherwise stated herein, be in accordance with the applicable provisions of the latest editions of the standards of the ASTM, ANSI, AEIC, NEMA, ASME, IEEE, NESC, NFPA, NEC, and UL.

All equipment and materials shall conform to the latest emission standards or requirements of the Environmental Protection Agency (EPA), The North Carolina Department of Environmental Quality (DEQ), and local authorities having jurisdiction.

When the term “Standards” is used in the Specifications, it shall be understood to refer to the above Standards.

4.0 Delivery of Equipment and Shipping

The prices quoted shall include delivery, unloading, and installation of the equipment at the property 5442 MLK Jr. Blvd, Greenville, North Carolina 27834. All provided equipment other than steel structures can be picked-up from Owner at 711 Utility Way, Greenville, NC 27834.

The Contractor will contact and coordinate with Commission personnel to pick-up deliver equipment and material to the site. The Commission or its personnel will not be responsible for receiving any deliveries. Prior to picking up equipment, Contractor shall give 48 hours’ notice to: Lee Ausbon, Substation Operations Supervisor, (252) 551-1588.

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5.0 Assembly of Structural Steel

5.1 Installation

- 5.1.1 All steel shall be installed plumb or level unless otherwise shown on the manufacturer's assembly drawings. After steel members are installed, bolts shall be tightened to specified torque levels.
- 5.1.2 Anchor bolt nuts shall be installed with one nut below the base plate and one nut above. Columns shall be made plumb by the use of the double-nut arrangement. Columns shall be brought to final plumb before trusses or other horizontal members are installed. Jam nuts are to be installed where specified by the steel manufacturer drawings or by the project drawings.
- 5.1.3 The Contractor should be prepared with proper punching or drilling equipment to install holes as omitted by oversight of the steel supplier. Field installed holes shall be treated with cold galvanizing compound. The Contractor shall submit a per hole price for this in his proposal.

5.2 Cranes and Hoisting Equipment

- 5.2.1 Wire ropes, chains, ropes and other rigging equipment must be inspected prior to use and as necessary during use to assure their safety. Defective rigging equipment is to be removed from job site immediately.
- 5.2.2 Job or shop hooks and links, or makeshift fasteners formed from bolts, rods, or other such attachments, are not to be used.
- 5.2.3 On every crane or piece of hoisting equipment notices of all rated load capacities, recommended operating speeds, and any hazard warnings or special instructions must be conspicuously posted. All instructions and warnings must be visible from the equipment operator's station.
- 5.2.4 Copies of maintenance and inspection records must be presented in the operator's cab if there is a practical area for appropriate storage.
- 5.2.5 All areas within swing radius of cranes that are potentially accessible by pedestrian, vehicular, or equipment movement must be barricaded to prevent anyone or any vehicle or equipment from being struck by the crane or hoisting equipment, or its load(s).
- 5.2.6 Except where electrical distribution and transmission lines have been deenergized and visibly grounded, or where insulating barriers not a part of or an attachment to the equipment or machinery have been erected to prevent physical contact with such lines, no part of a crane or its load shall be operated within 15 ft. of the power line.

5.3 Fasteners

- 5.3.1 All bolts used in the structural steel erection shall be those furnished by the steel vendor. If inadequate quantities are available, additional bolts shall be obtained from the substation steel supplier.
- 5.3.2 All bolts shall be installed in accordance with American Institute of Steel Construction (AISC) "Specifications for Structural Joints Using ASTM A325 Bolts".

5.4 Finish Protection

- 5.4.1 All galvanized steel shall be stored in a manner to avoid standing water within sections or direct contact of steel with earth. Hardwood blocking

shall be used to avoid long-term earth contact. Blocking shall also be used to avoid contact between galvanized steel sections when stacked.

5.4.2 All galvanized steel shall be handled in a manner to avoid scratching or chipping of the galvanized coating.

5.4.3 Where surface scratching of the galvanized structural section does occur, the surface may be restored by using zinc bars applied with oxyacetylene torch. Steel shall be cleaned to obtain a firm bond and coating thickness exceeding original.

6.0 Electrical Materials

6.1 Riser Conduit

6.1.1 The Contractor shall furnish and install riser conduit from the circuit exit pedestals to a designated point outside of the substation fence. Riser conduit shall be polyvinyl chloride (PVC) meeting dimensional requirements of Schedule 40. Conduit shall be ultraviolet resistant and otherwise suitable for outdoor use. The Commission will install cable into the completed conduit system. All elbows shall be rigid large radius made from galvanized steel.

6.2 Low Voltage and Control Conduit

6.2.1 The Contractor shall furnish and install Schedule 40 PVC conduit for all low voltage power circuits and control circuits within the station. Installation shall include all fittings required for connection and support of the conduit system. Conduit shall meet UL Standard 651 and NEMA TC-2.

6.3 Low Voltage and Control Conduit Fittings

6.3.1 The Contractor shall furnish conduit fittings as shown on the project drawings and as required to complete a functional recovery system. All fittings shall be compatible with Schedule 40 or Schedule 80 conduit, as required. Fittings shall be waterproof and suitable for outdoor service. All fittings shall be gasketed. Switch and receptacle boxes shall be equipped with a gasketed snap cover. All fittings shall be UL labeled.

6.4 Wiring and Control Conductors

6.4.1 The Owner will furnish and install all service and control conductors.

6.5 Wiring and Control Conductors

6.5.1 The Owner will furnish and install area lighting.

7.0 Electrical Component Installation

7.1 General

7.1.1 All material shall be installed in a workmanlike manner and shall meet requirements of the National Electrical Safety Code and the National Electrical Code as applicable. Installations shall comply with the project drawings, specifications and the manufacturer's instructions. The Contractor shall inspect material prior to installation. Any defective material furnished by the Owner shall be brought to the attention of the Owner. No defective materials may be installed.

7.2 Mounting

7.2.1 All items shall be securely mounted and connected. All fasteners shall be galvanized steel, stainless steel aluminum or silicon bronze. Cadmium plated steel fasteners shall not be used.

7.3 Bus and Switch Mounting

7.3.1 The Contractor shall install all bus and switches as shown on project drawings. All equipment shall be adjusted in accordance with manufacturer's recommendations. The proper adjustment and functioning of all electrical components and equipment shall be demonstrated to the Owner and/or the Engineer prior to project acceptance.

7.4 Apparatus Mounting

7.4.1 All substation electrical apparatus shall be mounted in accordance with manufacturer's instructions. This includes breakers, circuit switchers and other equipment (if applicable and not specifically excluded herein). The Contractor shall coordinate with the Owner to obtain assistance in the testing and adjustment of this apparatus.

7.5 Control Wiring, Conduits, and Cable Trench

7.5.1 The Contractor shall furnish all control conduit as shown on project drawings. Installations shall be in accordance with the National Electrical Safety Code. The Contractor shall furnish and install all necessary fittings, junction boxes, fixture boxes and other materials required to achieve an acceptable and functional system as shown on the project drawings.

7.6 Bus and Lead Installation

7.6.1 The Contractor shall install tubular aluminum bus and stranded aluminum leads as shown on project drawings.

7.6.2 The Owner will furnish swaged aluminum bus compression connectors. The Contractor shall coordinate with the connector manufacturer and the Owner to obtain any required technical assistance for proper installation of these connectors. Connectors or bus damaged during installation of connections will be replaced at the expense of the Contractor.

7.6.3 Stranded leads for the connection of equipment shall be of a size and type shown on the drawings. All aluminum conductors shall be terminated with compression connectors. The Contractor shall furnish proper tooling for installation of connectors.

7.6.4 Stainless steel bolts equipped with Belleville washers shall be utilized for bolted aluminum connections.

- 7.6.5 When Belleville washers are used the bolts should be tightened until the washers are flat; then the nuts should be backed off slightly, not to exceed one quarter turn for fine thread bolts and not to exceed 1/8" turn ("just feel" condition) for coarse thread bolts.
- 7.6.6 All bolted aluminum connections shall be abraded through a layer of oxidation inhibitor compound immediately prior to assembly. Compound used shall be as recommended by the connector manufacturer or as approved by the Engineer.
- 7.6.7 Copper to copper connections shall be made with Silicon bronze bolts.
- 7.6.8 Transition plates should be used for any copper to aluminum connections.

7.7 Grounding System

- 7.7.1 The Contractor shall install all grounding conductors, connectors and clamps in the location and manner shown on the project drawings.
- 7.7.2 The Owner will furnish the conductor, ground rods, exothermic welds, and split bolt (fence) connectors.
- 7.7.3 The Contractor shall have employees certified in the installation of the Cadweld® system. Proof of certification will be required.
- 7.7.4 Contractor should pay particular attention to foundation (rebar) bonding as indicated on the project drawings.

8.0 Substation Fence Specification

The substation fence will be provided and installed under a separate contract.

8.1 Fence Grounding

- 8.1.1 The substation contractor is responsible for proper fence grounding. Fencing grounding shall be in accordance with project drawings. No unplated bronze or copper connectors shall be installed on galvanized fence fabric. Only tinned copper or aluminum strand shall be used for fence grounding. The fence grounding conductor and fence fabric shall be separated by the split bolt keeper and the split bolt shall be oriented so that the nut is on the inside of the fence.

Appendix List

Appendix A: Plan View

Appendix B: Steel Details and Elevations

Appendix C: Substation Package BOM

Appendix D: Cable & Conduit Drawing

Appendix E: Ground Grid Drawing

Appendix F: Cable Trench BOM

BOVT_xx_SITE_CP_R1

BOVT_xx_SITE_GG_R1

Vendor Name: _____

GREENVILLE UTILITIES COMMISSION
PROPOSAL FORM FOR LABOR AND CONSTRUCTION OF
BOVIET SUBSTATION MATERIALS

The undersigned bidder hereby declares that it has carefully examined the enclosed detailed specifications for furnishing GUC with the below listed item(s). The undersigned bidder further agrees, if this proposal is accepted within thirty (60) days from the date of the opening, to furnish any or all of the item(s) upon the quoted price.

ITEM NO.	DESCRIPTION	DELIVERY TIME (DAYS)	PRICE
I	Installation of Structures, Bus Work, & Electrical Equipment		\$
II	Installation of Conduit & Trench System		\$
III	Installation of Grounding System		\$
IV	TOTAL BASE BID		\$
	Complete and Check All Math: It is the responsibility of the Bidder to extend unit prices and supply a total for all items.		
	Per Unit Prices		
	The following per-unit prices must be completed to be considered a responsive bid. The unit pricing shall include all costs associated with labor and materials required for installation.		
	Installation of Structures		
	Drill or punch hole in steel structure, per each		\$
	Installation of Conduit & Trench System		
	Supply and install estimated 3350' 2" of conduits		\$
	Per 20' of 2" conduit		\$
	Supply and install estimated 150' of 3" conduits		\$
	Per 20' of 3" conduit		\$
	Supply and install estimated 3480' of 4" conduits		\$
	Per 20' of 4" conduit		\$
	Installation of Grounding System		
	Install estimated 13,600' of 4/0 in trench		\$
	Per 50' of 4/0 in trench		\$
	Install estimated 1,950' of 2/0 in trench		\$
	Per 50' of 2/0 in trench		\$
	Install estimated 200 ground rods		\$
	Per 10 ground rods		\$
	Install estimated 900 exothermic connections		\$
	Per 10 exothermic connections		\$

	<p>BID SCHEDULE NO. 1 – Delivery Schedule Calendar Days</p> <p>The Contractor shall achieve Substantial Completion of the entire Work not later than the number of Calendar Days as indicated from the date of commencement as fixed in a Notice to Proceed issued by the Owner. The time to achieve Substantial Completion shall be extended for the period of any reasonable delay due exclusively to causes beyond the control and without fault of the Bidder, including acts of God, fires, floods, strikes, and delays in transportation.</p>	<p>_____ Days</p>	
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Method of Award: GUC will award this bid as a total bid.

Complete and Check All Math: It is the responsibility of the Bidder to extend bid prices and supply a total for all items. It is certified that this proposal is made in good faith and without collusion or connection with any other person bidding on the same above listed items. It is also certified that this proposal is made in good faith and without collusion or connection with any GUC employee(s).

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It is certified that this proposal is made in good faith and without collusion or connection with any other person bidding on the same above listed items. It is also certified that this proposal is made in good faith and without collusion or connection with any GUC employee(s).

Certified check or cash for \$_____ or bid bond for \$_____ attached.

Firm Name _____ Phone (____) _____

Address _____

City _____ State _____ Zip Code _____

Fax (____) _____ E-Mail _____

Authorized Official _____ Title _____
Typed Name

Signature Date _____

**Two (2) copies of your proposal should be received no later than
May 7, 2026 at 2:00 PM (EDT).**

NO BIDS CONSIDERED UNLESS SUBMITTED ON THIS FORM(S)

(RETURN ONLY THIS FORM(S) AND EXCEPTION, E-VERIFY, GOOD FAITH EFFORTS)

Vendor Name: _____

GREENVILLE UTILITIES COMMISSION

Exception/Variation Form

Specifications for: Boviet Substation Labor & Construction

Provider's Certification: This is to certify that it is our intent to furnish equipment, material, services, etc. in absolute compliance with the bid specification except where expressly noted below.

Instructions: List all exceptions or variations to these bid specifications. Providers shall identify each exception or variation by specification page. The omission of exception or variation information shall be deemed by the Commission as the Provider's intent to absolutely comply with the bid specification. If additional space is required, Provider may reproduce this form as necessary.

<u>Page #</u>	<u>Exception/Variation</u>
_____	_____
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_____	_____

Authorized Signature of Certification: _____

Print Name: _____

Firm Represented: _____

Address: _____

Letter of Compliance to E-Verify for Greenville Utilities Commission

1. I have submitted a bid for contract or desire to enter into a contract with the Greenville Utilities Commission;
2. As part of my duties and responsibilities pursuant to said bid and/or contract, I affirm that I am aware of and in compliance with the requirements of E-Verify, Article 2 of Chapter 64 of the North Carolina General Statutes, to include (mark which applies):
3. ____ After hiring an employee to work in the United States I verify the work authorization of said employee through E-Verify and retain the record of the verification of work authorization while the employee is employed and for one year thereafter; or
4. ____ I employ less than twenty-five (25) employees in the State of North Carolina.
5. As part of my duties and responsibilities pursuant to said bid and/or contract, I affirm that to the best of my knowledge and subcontractors employed as a part of this bid and/or contract, are in compliance with the requirements of E-Verify, Article 2 of Chapter 64 of the North Carolina General Statutes, to include (mark which applies):
6. ____ After hiring an employee to work in the United States the subcontractor verifies the work authorization of said employee through E-Verify and retains the record of the verification of work authorization while the employee is employed and for one year thereafter; or
7. ____ Employ less than twenty-five (25) employees in the State of North Carolina.
Specify subcontractor: _____

_____ (Company Name)

By: _____ (Typed Name)

_____ (Authorized Signatory)

_____ (Title)

_____ (Date)

Special Instructions to Bidders

**City of Greenville/Greenville Utilities Commission
Minority and/or Women Business Enterprise (M/WBE) Program**

**GUC
Construction Guidelines and Affidavits
\$100,000 and above**

These instructions shall be included with each bid solicitation.

**City of Greenville/Greenville Utilities Commission
Minority and/or Women Business Enterprise Program**

\$100,000 and Construction Guidelines for M/WBE Participants

Policy Statement

It is the policy of the City of Greenville and Greenville Utilities Commission to provide minorities and women equal opportunity for participating in all aspects of the City’s and Utilities’ contracting and procurement programs, including but not limited to, construction projects, supplies and materials purchases, and professional and personal service contracts.

Goals and Good Faith Efforts

Bidders responding to this solicitation shall comply with the M/WBE program by making Good Faith Efforts to achieve the following aspiration goals for participation.

	GUC	
	MBE	WBE
Construction This Goal includes Construction Manager at Risk	7%	4%

Bidders shall submit M/WBE information with their bids on the forms provided. This information will be subject to verification by GUC prior to contract award. **As of July 1, 2009, contractors, subcontractors, suppliers, service providers, or M/WBE members of joint ventures intended to satisfy GUC M/WBE goals shall be certified by the NC Office of Historically Underutilized Businesses (NC HUB) only.** Firms qualifying as “WBE” for GUC’s goals must be designated as a “women-owned business” by the HUB Office. Firms qualifying as “MBE” for GUC’s goals must be certified in one of the other categories (i.e.: Black, Hispanic, Asian American, American Indian, Disabled, or Socially and Economically Disadvantaged). Those firms who are certified as both a “WBE” and “MBE” may only satisfy the “MBE” requirement. A complete database of NC HUB certified firms may be found at <http://www.doa.nc.gov/hun/>. An internal database of firms who have expressed interest to do business with the City and GUC is available at www.greenvillencmwbe.org. However, the HUB status of these firms must be verified by the HUB database. GUC shall accept NCDOT certified firms on federally funded projects only. Please note: A contractor may utilize any firm desired. However, for participation purposes, all M/WBE vendors who wish to do business as a minority, or a female must be certified by NC HUB.

The Bidder shall make good faith efforts to encourage participation of M/WBEs prior to submission of bids in order to be considered as a responsive bidder. Bidders are cautioned that even though their submittal indicates they will meet the M/WBE goal, they should document their good faith efforts and be prepared to submit this information, if requested.

The M/WBE's listed by the Contractor on the **Identification of Minority/Women Business Participation** which are determined by the GUC to be certified shall perform the work and supply the materials for which they are listed unless the Contractors receive prior authorization

from the GUC to perform the work with other forces or to obtain materials from other sources. If a contractor is proposing to perform all elements of the work with his own forces, he must be prepared to document evidence satisfactory to the owner of similar government contracts where he has self-performed.

The Contractor shall enter into and supply copies of fully executed subcontracts with each M/WBE or supply signed Letter(s) of Intent to the Project Manager after award of contract and prior to Notice to Proceed. Any amendments to subcontracts shall be submitted to the Project Manager prior to execution.

Instructions

The Bidders Shall Provide with the bid the following documentation:

- Identification of Minority/Women Business Participation
(if participation is zero, please mark zero – Blank forms will be considered nonresponsive)
- Affidavit A (if subcontracting)

OR

- Identification of Minority/Women Business Participation
(if participation is zero, please mark zero – Blank forms will be considered nonresponsive)
- Affidavit B (if self-performing; must attest that bidder does not customarily subcontract work on this type of project – includes supplies and materials)

Within 72 hours or 3 business days after notification of being the apparent low bidder who is subcontracting anything must provide the following information:

- Affidavit C (if aspirational goals are met or are exceeded)

OR

- Affidavit D (if aspirational goals are not met)

After award of contract and prior to issuance of notice to proceed:

- Letter(s) of Intent or Executed Contracts

****With each pay request, the prime contractors will submit the Proof of Payment Certification, listing payments made to M/WBE subcontractors.**

*****If a change is needed in M/WBE Participation, submit a Request to Change M/WBE Participation Form. Good Faith Efforts to substitute with another M/WBE contractor must be demonstrated.**

Minimum Compliance Requirements:

All written statements, affidavits, or intentions made by the Bidder shall become a part of the agreement between the Contractor and the GUC for performance of contracts. Failure to comply with any of these statements, affidavits or intentions or with the minority business guidelines shall constitute a breach of the contract. A finding by the GUC that any information submitted (either prior to award of the contract or during the performance of the contract) is inaccurate, false, or incomplete, shall also constitute a breach of the contract. Any such breach may result in termination of the contract in accordance with the termination provisions contained in the contract. It shall be solely at the option of the GUC whether to terminate the contract for breach or not. In determining whether a contractor has made Good Faith Efforts, the GUC will evaluate all efforts made by the Contractor and will determine compliance regarding quantity, intensity, and results of these efforts.

Greenville Utilities Commission AFFIDAVIT A – Listing of Good Faith Efforts

County of _____

Affidavit of _____

(Name of Bidder)

I have made a good faith effort to comply under the following areas checked:

Bidders must earn at least 50 points from the good faith efforts listed for their bid to be considered responsive. (1 NC Administrative Code 30 I.0101)

- 1 – (10 pts)** Contacted minority businesses that reasonably could have been expected to submit a quote and that were known to the contractor, or available on State or local government-maintained lists, at least 10 days before the bid date and notified them of the nature and scope of the work to be performed.
- 2 – (10 pts)** Made the construction plans, specifications and requirements available for review for review by prospective minority businesses or providing these documents to them at least 10 days before the bids are due.
- 3 – (15 pts)** Broken down or combined elements of work into economically feasible units to facilitate minority participation.
- 4 – (10 pts)** Worked with minority trade, community, or contractor organizations identified by the Office of Historically Underutilized Businesses and included in the bid documents that provide assistance in recruitment of minority businesses.
- 5 – (10 pts)** Attended Prebid meetings scheduled by the public owner.
- 6 – (20 pts)** Provided assistance in getting required bonding or insurance or provided alternatives to bonding or insurance for subcontractors.
- 7 – (15 pts)** Negotiated in good faith with interested minority businesses and did not reject them as unqualified without sound reasons based on their capabilities. Any rejection of a minority business based on lack of qualification should have the reasons documented in writing.
- 8 – (25 pts)** Provided assistance to an otherwise qualified minority business in need of equipment, loan capital, lines of credit, or joint pay agreements to secure loans, supplies, or letters of credit, including waiving credit that is ordinarily required. Assisted minority businesses in obtaining the same unit pricing with the bidder’s suppliers in order to help minority businesses in establishing credit.

9 – (20 pts) Negotiated joint venture and partnership arrangements with minority businesses in order to increase opportunities for minority business participation on a public construction or repair project when possible.

10 – (20 pts) Provided quick pay agreements and policies to enable minority contractors and suppliers to meet cash-flow demands.

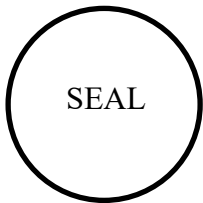
The undersigned, if apparent low bidder, will enter into a formal agreement with the firms listed in the identification of Minority/Women Business Participation schedule conditional upon scope of contract to be executed with the Owner. Substitution of contractors must be in accordance with GS143-128.2(d). Failure to abide by this statutory provision will constitute a breach of the contract.

The undersigned hereby certifies that he or she has read the terms of the minority/women business commitment and is authorized to bind the bidder to the commitment herein set forth.

Date: _____ Name of Authorized Officer: _____

Signature: _____

Title: _____



State of _____, County of _____

Subscribed and sworn to before me this _____ day of _____ 20____

Notary Public _____

My Commission expires _____

Greenville Utilities Commission - AFFIDAVIT B - Intent to Perform Contract with Own Workforce

County of _____

Affidavit of _____
(Name of Bidder)

In making this certification, the Bidder states that the Bidder does not customarily subcontract elements of this type of project, and normally performs and has the capability to perform and will perform all elements of the work on this project with his/her own current work forces; and

The Bidder agrees to provide any additional information or documentation requested by the owner in support of the above statement.

The undersigned hereby certifies that he or she has read this certification and is authorized to bind the Bidder to the commitments herein contained.

Date: _____ Name of Authorized Officer: _____

Signature: _____

Title: _____



State of _____, County of _____

Subscribed and sworn to before me this _____ day of _____ 20_____

Notary Public _____

My commission expires _____

Greenville Utilities Commission – AFFIDAVIT C – Portion of the Work to be Performed by M/WBE Firms

County of _____

(Note this form is to be submitted only by the apparent lowest responsible, responsive bidder.)

If the portion of the work to be executed by M/WBE businesses as defined in GS143-128.2(g) and the COG/GUC M/WBE Plan sec. III is equal to or greater than 11% of the bidder’s total contract price, then the bidder must complete this affidavit. This affidavit shall be provided by the apparent lowest responsible, responsive bidder within **72 hours** after notification.

Affidavit of _____ I do hereby certify that on the
(Name of Bidder)

(Project Name)

Project ID# _____ Amount of Bid \$ _____

I will expend a minimum of _____% of the total dollar amount of the contract with minority business enterprises and a minimum of _____% of the total dollar amount of the contract with women business enterprises. Minority/women businesses will be employed a construction subcontractors, vendors, suppliers, or providers of professional services. Such work will be subcontracted to the following firms listed below.

Name and Phone Number	*M/WBE Category	Work Description	Dollar Value

*M/WBE categories: Black, African American (**B**), Hispanic, Latino (**L**), Asian American (**A**), American Indian (**I**), Female (**F**), Socially and Economically Disadvantaged (**S**), Disabled (**D**)

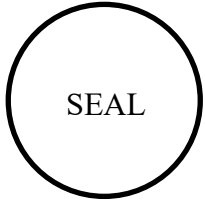
Pursuant to GS143-128.2(d), the undersigned will enter into a formal agreement with M/WBE Firms for work listed in this schedule conditional upon execution of a contract with the Owner. Failure to fulfill this commitment may constitute a breach of the contract.

The undersigned hereby certifies that he or she has read the terms of this commitment and is authorized to bind the bidder to the commitment herein set forth.

Date: _____ Name of Authorized Officer: _____

Signature: _____

Title: _____



State of _____, County of _____

Subscribed and sworn to before me this _____ day of _____ 20_____

Notary Public _____

My commission expires _____

Greenville Utilities Commission – AFFIDAVIT D – Good Faith Efforts

County of _____

(Note this form is to be submitted only by the apparent lowest responsible, responsive bidder)

If the goal of 11% participation by minority/women business **is not** achieved, the Bidder shall provide the following documentation to the Owner of his good faith efforts:

Affidavit of _____ I do hereby certify that on the
(Name of Bidder)

_____ (Project Name)

Project ID# _____ Amount of Bid \$ _____

I will expend a minimum of _____% of the total dollar amount of the contract with minority business enterprises and a minimum of _% of the total dollar amount of the contract with women business enterprises. Minority/women businesses will be employed a construction subcontractors, vendors, suppliers, or providers of professional services. Such work will be subcontracted to the following firms listed below.

Name and Phone Number	*M/WBE Category	Work Description	Dollar Value

*M/WBE categories: Black, African American (**B**), Hispanic, Latino (**L**), Asian American (**A**), American Indian (**I**), Female (**F**), Socially and Economically Disadvantaged (**S**), Disabled (**D**)

Examples of documentation required to demonstrate the Bidder's good faith efforts to meet the goals set forth in these provisions include, but are not necessarily limited to, the following:

- A. Copies of solicitations for quotes to at least three (3) minority business firms from the source list provided by the State for each subcontract to be let under this contract (if 3 or more firms are shown on the source list). Each solicitation shall contain a specific description of the work to be subcontracted, location where bid documents can be reviewed, representative of the Prime Bidder to contact, and location, date and time when quotes must be received.
- B. Copies of quotes or responses received from each firm responding to the solicitation.
- C. A telephone log of follow-up calls to each firm sent a solicitation.

- D. For subcontracts where a minority business firm is not considered the lowest responsible, responsive sub-bidder, copies of quotes received from all firms submitting quotes for that subcontract.
- E. Documentation of any contacts or correspondence to minority business, community, or contractor organizations in an attempt to meet the goal.
- F. Copy of pre-bid roster.
- G. Letter documenting efforts to provide assistance in obtaining required bonding or insurance for minority business.
- H. Letter detailing reasons for rejection of minority business due to lack of qualification.
- I. Letter documenting proposed assistance offered to minority business in need of equipment, loan capital, lines of credit, or joint pay agreements to secure loans, supplies, or letter of credit, including waiving credit that is ordinarily required.

Failure to provide the documentation as listed in these provisions may result in rejection of the bid and award to the next lowest responsible and responsive bidder

Pursuant to GS143-128.2(d), the undersigned will enter into a formal agreement with M/WBE Firms for work listed in this schedule conditional upon execution of a contract with the Owner. Failure to fulfill this commitment may constitute a breach of the contract.

The undersigned hereby certifies that he or she has read the terms of this commitment and is authorized to bind the bidder to the commitment herein set forth.

Date: _____ Name of Authorized Officer: _____

Signature: _____

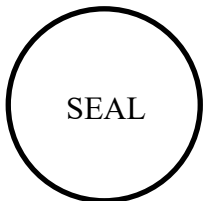
Title: _____

State of _____, County of _____

Subscribed and sworn to before me this _____ day of _____ 20_____

Notary Public _____

My commission expires _____



LETTER OF INTENT

M/WBE Subcontractor Performance

Please submit this form or executed subcontracts with M/WBE firms after award of contract and prior to issuance of notice to proceed.

PROJECT: _____
(Project Name)

TO: _____
(Name of Prime Bidder/Architect)

The undersigned intends to perform work in connection with the above project as a:

_____ Minority Business Enterprise _____ Women Business Enterprise

The M/WBE status of the undersigned is certified by the NC Office of Historically Underutilized Businesses (required). _____ Yes _____ No

The Undersigned is prepared to perform the following described work or provide materials or services in connection with the above project at the following dollar amount:

Work/Materials/Service Provided	Dollar Amount of Contract	Projected Start Date	Projected End Date

(Date)

(Address)

(Name & Phone No. of M/WBE Firm)

(Name & Title of Authorized Representative of M/WBE)

(Signature of Authorized Representative of M/WBE)

REQUEST TO CHANGE M/WBE PARTICIPATION

Submit changes only if notified as apparent lowest bidder, continuing through project completion)

Project: _____

Bidder or Prime Contractor: _____

Name & Title of Authorized Representative: _____

Address: _____ **Phone #:** _____

_____ **Email Address:** _____

Total Contract Amount (including approved change orders or amendments): \$ _____

Name of Subcontractor: _____

Good or service provided: _____

Proposed Action:

_____ Replace subcontractor

_____ Perform work with own forces

For the above actions, you must provide one of the following reasons (Please check applicable reason):

_____ The listed MBE/WBE, after having had a reasonable opportunity to do so, fails or refuses to execute a written contract.

_____ The listed MBE/WBE is bankrupt or insolvent.

_____ The listed MBW/WBE fails or refuses to perform his/her subcontract or furnish the listed materials.

_____ The work performed by the listed subcontractor is unsatisfactory according to industry standards and is not in accordance with the plans and specifications; or the subcontractor is substantially delaying or disrupting the progress of the work.

If replacing subcontractor:

Name of replacement subcontractor: _____

The M/WBE status of the contractor is certified by the NC Office of Historically Underutilized Businesses (required). _____ Yes _____ No

Dollar amount of original contract \$ _____

Dollar amount of amended contract \$ _____

Other Proposed Action:

____ Increase total dollar amount of work _____ Add additional subcontractor
____ Decrease total dollar amount of work _____ Other

Please describe reason for requested action: _____

If adding additional subcontractor*

The M/WBE status of the contractor is certified by the NC Office of Historically Underutilized Businesses (required). ____ Yes ____ No

Please attach Letter of Intent or executed contract document

Dollar amount of original contract \$ _____

Dollar amount of amended contract \$ _____

Interoffice Use Only:

Approval __ Y __ N

Date _____

Signature _____

Proof of Payment Certification
M/WBE Contractors, Suppliers, Service Providers

Project Name: _____ Pay Application No. _____

Prime Contractor: _____ Purchase Order No. _____

Current Contract Amount (including change orders): \$ _____

Requested Payment Amount for this Period: \$ _____

Is this the final payment? ___ Yes ___ No

Firm Name	*M/WBE Category	Total Amount Paid from this Pay Request	Total Contract Amount (including changes)	Total Amount Remaining

*M/WBE categories: Black, African American (**B**), Hispanic, Latino (**L**), Asian American (**A**), American Indian (**I**), Female (**F**), Socially and Economically Disadvantaged (**S**), Disabled (**D**)

Date: _____

Certified By: _____
Name

Title

Signature

BID BOND

KNOW ALL MEN BY THESE PRESENT, THAT WE _____

as Principal, and _____
as Surety, who is duly licensed to act as Surety in North Carolina, are held and firmly bound unto the Greenville Utilities Commission, Greenville, NC, as Obligee, in the penal sum of _____
_____ DOLLARS (\$ _____) (5% Bid Bond),
lawful money of the United States of America, for the payment of which, well and truly to be made, we bind ourselves, our heirs, administrators, successors and assigns, jointly and severally, firmly by these present.

SIGNED, Sealed and dated this _____ day of _____, 2026.

WHEREAS, the said Principal is herewith submitting a Proposal for

BOVIET SUBSTATION LABOR

and the Principal desires to file this Bid Bond in Lieu of making the cash deposit as required by the bidding documents contained herein;

NOW, THEREFORE, THE CONDITION OF THE ABOVE OBLIGATION is such that if the principal shall be awarded the Purchase Order for which the bid is submitted and shall accept the Purchase Order within ten (10) days after the award of same to the principal, then this obligation shall be null and void; but if the principal fails to so accept such purchase order as required by the bidding documents contained herein, the Surety shall, upon demand, forthwith pay to the Obligee the amount set forth in the first paragraph hereof, and upon failure to forthwith make such payment, the Surety shall pay the Obligee an amount equal to double the amount of this Bid Bond as set forth in the first paragraph hereof. Power of Attorney from the surety to is Attorney-in-Fact is attached hereto.

Principal

By _____(SEAL)

Corporate Surety

By _____(SEAL)

PERFORMANCE BOND/PAYMENT BOND

Date of Execution: _____

Name of Principal: _____

(Contractor) _____

Name of Surety: _____

Name of Contracting
Body: _____

Amount of Bond: _____

Project: _____

KNOW ALL THESE MEN BY THESE PRESENT, That We, the Principal and Surety above named, are held and firmly bound unto the above named Contracting Body, hereinafter called the Contracting Body, in the penal sum of the amount stated above the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these present.

THE CONDITION OF THIS OBLIGATION IS SUCH that whereas the Principal entered into a certain Contract with the Contracting Body, identified as shown above and hereto attached.

NOW, THEREFORE, if the Principal shall well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of said Contract during the original term of said Contract and any extensions there of that may be granted by the Contracting Body, with or without notice to the Surety, and during the life of any guaranty required under the Contract, and shall also well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of any and all duly authorized modifications of said Contract that may hereafter be made, notice of which modifications to the Surety being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue.

IN WITNESS WHEREOF, the above bounded parties have executed this instrument under the several seals on the date indicated above, the name and corporate seal of each corporate party being hereto affixed, and these present duly signed by its undersigned representative, pursuant to authority of its governing body.

Executed in five (5) counterparts.

Witness:

CONTRACTOR:

(Proprietorship or Partnership)

(Trade or Corporate Name)

ATTEST:

By: _____

By: _____

Title: _____
(Corporate Secretary or
Assistant Secretary Only)

Title: _____

(CORPORATE SEAL)

Witness:

SURETY COMPANY:

Countersigned:

By: _____

Title: _____
(Attorney-in-Fact)

N.C. Licensed Resident Agent

(Name and Address – Surety Agent)

(SURETY SEAL)

Surety Company Name and N.C.
Regional or Branch Office Address

SECTION III

TERMS AND CONDITIONS FOR THE PURCHASE OF APPARATUS, SUPPLIES, MATERIALS, LABOR AND EQUIPMENT

These Terms and Conditions, made and entered into on this the ___ day of _____, by and between GREENVILLE UTILITIES COMMISSION OF THE CITY OF GREENVILLE, PITT COUNTY, NORTH CAROLINA, with one of its principal offices and places of business at 401 S. Greene Street, Post Office Box 1847, Greenville, Pitt County, North Carolina 27835-1847, hereinafter referred to as "GUC" and _____, a _____ organized and existing under and by virtue of the laws of the State of _____, with one of its principal offices and places of business at _____, hereinafter referred to as "PROVIDER";

1.0 TAXES

No taxes shall be included in any bid prices. GUC is exempt from Federal Excise Tax. GUC is not exempt from North Carolina state sales and use tax or, if applicable, Pitt County sales and use tax. Such taxes shall be shown as a separate item on the invoice.

2.0 INVOICES

It is understood and agreed that orders will be shipped at the established contract prices and quantities in effect on dates orders are placed. Invoicing at variance with this provision may subject the contract to cancellation. Applicable North Carolina sales tax shall be invoiced as a separate line item. All invoices must bear the GUC purchase order number. Mail all invoices to Greenville Utilities Commission, Finance Department, P. O. Box 1847, Greenville, NC 27835-1847.

3.0 PAYMENT TERMS

Payments for equipment, materials, or supplies will be made after the receipt and acceptance of the equipment, materials, supplies or services and after submission of a proper invoice. GUC's normal payment policy is thirty (30) days. GUC will not be responsible for any goods delivered without a purchase order having been issued. Payment will be made in U. S. currency only.

4.0 QUANTITIES

Quantities specified are only estimates of GUC's requirements. GUC reserves the right to purchase more or less than the stated quantities at prices indicated in the submitted Proposal Form based on our actual needs.

5.0 AFFIRMATIVE ACTION

The Provider will take affirmative action in complying with all Federal and State requirements concerning fair employment and employment of the handicapped, and concerning the treatment of all employees, without discrimination by reason of race, color, religion, sex, national origin, or physical handicap.

6.0 CONDITION AND PACKAGING

Unless otherwise indicated in the bid, it is understood and agreed that any item offered or shipped shall be new and in first class condition, that all containers shall be new and suitable for storage or shipment, and that prices include standard commercial packaging.

7.0 SAMPLES

Samples of items, if required, must be furnished free of expense to GUC, and if not destroyed, will, upon request, be returned at the Provider's expense. Request for the return of samples must be made at the bid opening, otherwise, the samples will become GUC's property. Each individual sample must be labeled with Provider's name.

8.0 SPECIFICATIONS

Any deviation from specifications must be clearly pointed out, otherwise, it will be considered that items offered are in strict compliance with specifications, and the Provider will be held responsible. Deviations must be explained in detail. **The Provider shall not construe this paragraph as inviting deviation or implying that any deviation will be acceptable.**

9.0 INFORMATION AND DESCRIPTIVE LITERATURE

Providers are to furnish all information requested. Further, as may be specified elsewhere, each Provider must submit with its proposal: cuts, sketches, descriptive literature, and/or complete specifications covering the products offered. Reference to literature submitted with a previous bid does not satisfy this provision. Bids which do not comply with these requirements will be subject to rejection.

10.0 AWARD OF CONTRACT

As directed by statute, qualified bids will be evaluated and acceptance made of the lowest responsible, responsive bid most advantageous to GUC as determined upon consideration of such factors as prices offered, the quality of the article(s) offered, the general reputation and performance capabilities of the Provider, substantial conformity with the specifications and other conditions set forth in the bid, the suitability of the article(s) for the intended use, the related services needed, the date(s) of delivery and performance, and such other factors deemed by GUC to be pertinent or peculiar to the purchase in question.

Acceptance of the order includes acceptance of all terms, conditions, prices, delivery instructions, and specifications as shown on this set of Terms and Conditions and in this order or attached to and made a part of this order.

The conditions of this order cannot be modified except by written amendment in the form of "Amended Purchase Order," which has been approved by GUC's Procurement Manager.

In the event of a Provider's failure to deliver or perform as specified, GUC reserves the right to cancel the order or any part thereof, without prejudice to GUC's other rights. The Provider agrees that GUC may return part of or all of any shipment at Provider's expense. GUC may charge the Provider with all reasonable expenses resulting from such failure to deliver or perform.

11.0 MEDIATION/BINDING ARBITRATION

In the event of any dispute between the Parties, the Parties agree to submit any dispute to non-binding mediation before a mutually agreeable Mediator prior to initiating litigation. If the Parties are unable to agree upon a Mediator within thirty (30) days after demand therefore, either Party may petition a Court of competent jurisdiction for the designation of a qualified Mediator for these purposes. Each Party shall bear its own costs and expenses of participating in the mediation (including, without limitation, reasonable attorneys' fees), and each Party shall bear one-half (1/2) of the costs and expenses of the Mediator. Unless otherwise agreed, the Parties will hold the mediation in Greenville, North Carolina. The matters discussed or revealed in the mediation session shall not be disclosed in any subsequent litigation.

In the event the matter is not resolved in mediation, either Party may request arbitration. The parties shall jointly select an Arbitrator, and shall be bound by the decision of the Arbitrator with respect to any dispute between the parties with respect to this Agreement. If the parties are unable to mutually agree upon an Arbitrator, the Parties shall each select an Arbitrator, and the two Arbitrators so selected shall select a third Arbitrator, and the decision of the majority of the Arbitrators shall be conclusive and binding upon the Parties. The Parties at all times agree to equally split the costs of any Arbitrator(s) selected in an effort to resolve the dispute between the Parties. Any party desiring to resolve a dispute under the terms of this Agreement shall notify the other Party in writing, and the Parties shall seek to agree upon a mutually agreed-upon Arbitrator within a period of ten (10) days from the date of such written demand. If the Parties are unable to agree within such ten (10) day period, the Parties shall each select an Arbitrator, and the two (2) Arbitrators so selected shall select a third Arbitrator within fifteen (15) days from the date of the written demand for arbitration, and a decision shall be rendered by the Arbitrator(s) so selected within five (5) days after such Arbitrator(s) is selected.

12.0 GOVERNMENT RESTRICTIONS

In the event any Governmental restrictions may be imposed which would necessitate alteration of the material, quality, workmanship, or performance of the items offered on this bid prior to their delivery, it shall be the responsibility of the successful Provider to notify the GUC Procurement Manager, at once, indicating in its letter the specific regulation which required such alterations. GUC reserves the right to accept any such alterations, including any price adjustments occasioned thereby, or, in the sole discretion of GUC, to cancel the contract.

13.0 INSURANCE

13.1 Coverage – During the term of the contract, the Provider at its sole cost and expense shall provide commercial insurance of such type and with the following coverage and limits:

13.1.1 Workers' Compensation – The Provider shall provide and maintain Workers' Compensation Insurance, as required by the laws of North Carolina, as well as employer's liability coverage with minimum limits of \$1,000,000 each accident, covering all Provider's employees who are engaged in any work under the contract. If any work is sublet, the Provider shall require the subcontractor to provide the same coverage for any of its employees engaged in any work under the contract.

13.1.2 General Liability – Commercial Liability Coverage written on an “occurrence” basis in the minimum amount of \$1,000,000 per occurrence.

13.1.3 Automobile – Automobile Liability Insurance, to include coverage for all owned, hired, and non-owned vehicles used in connection with the contract with a minimum combined single limit of \$1,000,000 per accident.

13.1.4 Cyber –The Vendor shall maintain Cyber Liability Insurance with limits of \$3,000,000 per occurrence, providing protection against liability for: (1) privacy breaches (including liability arising from the loss or disclosure of confidential information no matter how it occurs); (2) system breach; (3) denial or loss of service; (4) introduction, implantation, or spread of malicious software code; and (5) unauthorized access to or use of computer systems. Cyber Liability Insurance shall not include any exclusion or restriction for unencrypted portable devices or other media. Vendor shall provide evidence of continuation or renewal for a period of two (2) years following termination of the Agreement.

13.2 Requirements - Providing and maintaining adequate insurance coverage is a material obligation of the Provider. All such insurance shall meet all laws of the State of North Carolina. Such insurance coverage shall be obtained from companies that are authorized to provide such coverage and that are authorized to do business in North Carolina by the Commissioner of Insurance. The Provider shall at all times comply with the terms of such insurance policies and all requirements of the insurer under any of such insurance policies, except as they may conflict with existing North Carolina laws or this contract. The limits of coverage under each insurance policy maintained by the Provider shall not be interpreted as limiting the Provider’s liability and obligations under the contract. It is agreed that the coverage as stated shall not be canceled or changed until thirty (30) days after written notice of such termination or alteration has been sent by registered mail to GUC’s Procurement Manager.

14.0 PATENTS AND COPYRIGHTS

The Provider shall hold and save GUC, its officers, agents, and employees, harmless from liability of any kind, including costs and expenses, including reasonable attorney fees, on account of any copyrighted articles or any patented or unpatented invention, device or appliance manufactured or used in the performance of this contract.

15.0 PATENT AND COPYRIGHT INDEMNITY

The Provider will defend or settle, at its own expense, any action brought against GUC to the extent that it is based on a claim that the product(s) provided pursuant to this agreement infringe any U.S. copyright or patent; and will pay those costs, damages, and attorney fees finally awarded against GUC in any such action attributable to any such claim, but such defense, settlements, and payments are conditioned on the following: (1) that Provider shall be notified promptly in writing by GUC of any such claim; (2) that Provider shall have sole control of the defense of any action on such claim and of all negotiations for its settlement or compromise; (3) that GUC shall cooperate with Provider in a reasonable way to facilitate the settlement of defense of such claim; (4) that such claim does not arise from GUC modifications not authorized

by the Provider or from the use of combination of products provided by the Provider with products provided by GUC or by others; and (5) should such product(s) become, or in the Provider's opinion likely to become, the subject of such claim of infringement, then GUC shall permit Provider, at Provider's option and expense, either to procure for GUC the right to continue using the product(s), or replace or modify the same so that it becomes non-infringing and performs in a substantially similar manner to the original product.

16.0 EXCEPTIONS

All proposals are subject to the terms and conditions outlined herein. All responses will be controlled by such terms and conditions and the submission of other terms and conditions, price catalogs, and other documents as part of a Provider's response will be waived and have no effect on this Request for Proposal or any other contract that may be awarded resulting from this solicitation. The submission of any other terms and conditions by a Provider may be grounds for rejection of the Provider's proposal. The Provider specifically agrees to the terms and conditions set forth in this set of Terms and Conditions by affixing its name on the signatory page contained herein.

17.0 CONFIDENTIAL INFORMATION

Except as provided by statute and rule of law, GUC will keep trade secrets which the Provider does not wish disclosed confidential. Each page shall be identified in boldface at the top and bottom as "CONFIDENTIAL" by the Provider. Cost information shall not be deemed confidential. The determination of whether a matter is confidential will be determined by North Carolina law.

18.0 ASSIGNMENT

No assignment of the Provider's obligations or the Provider's right to receive payment hereunder shall be permitted without the express written consent of GUC, provided however, upon written request approved by the GUC Procurement Manager, solely as a convenience to the Provider, GUC may:

- Forward the Provider's payment check directly to any person or entity designated by the Provider, and
- Include any person or entity designated by Provider as a joint payee on the Provider's payment check.
- In no event shall such approval and action obligate GUC to anyone other than the Provider, and the Provider shall remain responsible for fulfillment of all contract obligations.

19.0 ACCESS TO PERSON AND RECORDS

GUC shall have reasonable access to persons and records of Provider as a result of all contracts entered into by GUC.

20.0 INSPECTION AT BIDDER'S SITE

GUC reserves the right to inspect, at a reasonable time, the item, plant, or other facilities of a prospective Provider prior to contract award and during the contract term as necessary for GUC's determination that such item, plant, or other facilities conform with the specifications/requirements and are adequate and suitable for the proper and effective performance of the contract. Provider may limit GUC's access to restricted areas.

21.0 AVAILABILITY OF FUNDS

Any and all payments of compensation of this specific transaction and any continuation or any renewal or extension are dependent upon and subject to the allocation of GUC funds for the purpose set forth in this Agreement.

22.0 GOVERNING LAWS

All contracts, transactions, agreements, etc., are made under and shall be governed by and construed in accordance with the laws of the State of North Carolina.

23.0 ADMINISTRATIVE CODE

Bids, proposals, and awards are subject to applicable provisions of the North Carolina Administrative Code and General Statutes and Laws of the State of North Carolina.

24.0 EXECUTION

In the discretion of GUC, failure of a duly authorized official of Provider to sign the Signatory Page may render the bid invalid.

25.0 CLARIFICATIONS/INTERPRETATIONS

Any and all questions regarding these Terms and Conditions must be addressed to the GUC Procurement Manager. Do not contact the user directly. **These Terms and Conditions are a complete statement of the parties' agreement and may only be modified in writing signed by Provider and the GUC Procurement Manager.**

26.0 SITUS

The place of all contracts, transactions, agreements, their situs and forum, shall be North Carolina, where all matters, whether in contract or tort, relating to the validity, construction, interpretation, and enforcement shall be determined.

27.0 TERMINATION OF AGREEMENT

GUC or Provider may terminate this Agreement for just cause at any time. Provider will be paid for all time and expenses incurred as of the termination date. Termination for just cause by either party shall be by certified letter and shall be effective thirty (30) days after signed and acknowledged receipt of said letter. Just cause shall be based on reasonable grounds, and there must be a fair and honest cause or reason for such action. The causes for termination, include, but are not limited to: (1) Provider's persistent failure to perform in accordance with the Terms and Conditions, (2) Provider's disregard of laws and regulations related to this

transaction, and/or (3) Provider's substantial violation of the provisions of the Terms and Conditions.

28.0 DELIVERY

Shipments will be made only upon releases from a purchase order issued by GUC in accordance with GUC's current needs.

Time is of the essence with respect to all deliveries under this Agreement.

Delivery of all equipment, materials, or supplies shall be made Free on Board (FOB), customer's site, Boviet Substation, at 35°39'28.9"N 77°20'59.8"W, unless otherwise specified. The agreed price for such equipment, materials, or supplies shall include all costs of delivery and ownership, and risks of loss shall not be transferred from Provider to GUC until express written acceptance of delivery and inspection by GUC. Delivery hours are between 8:00 AM and 4:30 PM Monday-Friday only. **GUC's purchase order number is to be shown on the packing slip or any related documents.** GUC reserves the right to refuse or return any delivery with no purchase order number or which is damaged. GUC will not be charged a restocking fee for any delivery which is refused or returned.

29.0 INDEMNITY PROVISION

Provider agrees to indemnify and save GREENVILLE UTILITIES COMMISSION of the City of Greenville, Pitt County, North Carolina, and the City of Greenville, North Carolina, its co-owners, joint venturers, agents, employees, and insurance carriers harmless from any and all losses, claims, actions, costs, expenses including reasonable attorney fees, judgments, subrogations, or other damages resulting from injury to any person (including injury resulting in death), or damage (including loss or destruction) to property of whatsoever nature of any person arising out of or incident to the performance of the terms of this Contract by Provider, including, but not limited to, Provider's employees, agents, subcontractors, and others designated by Provider to perform work or services in, about, or attendant to, the work and services under the terms of this Contract. Provider shall not be held responsible for any losses, expenses, claims, subrogations, actions, costs, judgments, or other damages, directly, solely, and proximately caused by the negligence of Greenville Utilities Commission of the City of Greenville, Pitt County, North Carolina. Insurance covering this indemnity agreement by the Provider in favor of Greenville Utilities Commission of the City of Greenville, Pitt County, North Carolina, and the City of Greenville, North Carolina, shall be provided by Provider.

30.0 FORCE MAJEURE

Neither party shall be considered in default in the performance of its obligations hereunder to the extent that the performance of any such obligation is prevented or delayed by any cause, existing or future, which is beyond the reasonable control of such party. In any such event of force majeure, the parties shall advise each other of such event, and the parties shall negotiate an equitable adjustment to their respective obligations under this Agreement.

31.0 WARRANTY(IES)

The Provider hereby includes all warranties, whether expressed or implied, including, but not limited to, the Implied Warranty of Merchantability and the Implied Warranty of Fitness for a Particular Purpose.

32.0 INTEGRATED CONTRACT

These Terms and Conditions, Instructions to Bidders, Specifications, and the selected Provider's bid represents the entire contract between the Parties. No verbal or other written agreement(s) shall be held to vary the provisions of this Agreement.

33.0 CONTRACT PROVISIONS

Each of the provisions of these Terms and Conditions shall apply to the full extent permitted by law, and the invalidity in whole or in part of any provision shall not affect the remainder of such provision or any other provisions.

34.0 E-VERIFY

E-Verify - I understand that E-Verify is the federal E-Verify program operated by the United States Department of Homeland Security and other federal agencies, or any successor or equivalent program used to verify the work authorization of newly hired employees pursuant to federal law in accordance with NCGS §64-25 et seq. I am aware of and in compliance with the requirements of E-Verify and Article 2 of Chapter 64 of the North Carolina General Statutes. To the best of my knowledge, any subcontractors employed by me as a part of this contract are in compliance with the requirements of E-Verify and Article 2 of Chapter 64 of the North Carolina General Statutes.

35.0 IRAN DIVESTMENT ACT CERTIFICATION

By acceptance of this purchase order, Vendor/Contractor certifies that, as of the date of the purchase order or contract, it is not on the Final Divestment List as created by the State Treasurer pursuant to N.C.G.S. § 143-6A-4. In compliance with the requirements of the Iran Divestment Act and N.C.G.S. § 143C-6A-5(b), Vendor/Contractor shall not utilize in the performance of the contract any subcontractor that is identified on the Final Divestment List.

36.0 UNIFORM GUIDANCE

Contracts funded with federal grant or loan funds must be procured in a manner that conforms with all applicable federal laws, policies, and standards, including those under the Uniform Guidance (2 C.F.R. Part 200).

37.0 SAFETY STATEMENTS

Safety Culture Commitment Statement:

At Greenville Utilities, we are committed to a culture of safety that prioritizes the well-being of our employees, contractors, and the communities we serve.

We believe that everyone deserves to work in a safe environment, and we are dedicated to fostering a culture where **safety is a core value, not just a priority.**

Here's what that means to us:

- **Employee and Contractor Safety:** We are committed to providing a safe work environment for all employees and contractors. We will invest in safety training, resources, and equipment to prevent accidents and injuries.
- **Open Communication:** We encourage open and honest communication about safety concerns. We believe everyone has a right and responsibility to speak up about unsafe work practices and potential hazards.

- **Continuous Improvement:** We are committed to continuous improvement in safety performance. We will learn from incidents and near misses, and we will actively seek ways to improve our safety processes and procedures.
- **Accountability:** We hold ourselves and our contractors accountable for safe work practices. This includes providing clear safety expectations, enforcing safety rules, and recognizing safe behavior.
- **Collaboration:** We believe in working collaboratively with employees, contractors, and regulatory agencies to achieve the highest level of safety.

Our commitment to safety extends beyond our employees. We work closely with our contractors to ensure they share our safety values. We expect them to implement robust safety programs, train their workers thoroughly, and adhere to all safety regulations.

We are confident that by working together, we can create a culture of safety where everyone goes home safe and healthy every day.

This commitment statement is a public declaration of our unwavering dedication to safety. We will continue to strive for zero incidents while promoting a positive safety culture that prioritizes the well-being of everyone involved in our utility operations.

Safety Management System Commitment Statement:

At Greenville Utilities, we are unwavering in our commitment to delivering safe and reliable utility service through a robust Safety Management System (SMS). This system forms the foundation of our safety culture, ensuring the well-being of our employees, contractors, and the communities we serve.

Our SMS commitment emphasizes:

- **Zero Incidents:** We believe all incidents are preventable. We strive for zero incidents by proactively managing risks and continuously improving our safety practices.
- **Empowered Workforce:** We foster a culture where safety is everyone's responsibility. This includes providing comprehensive safety training for both employees and contractors, empowering them to identify and report hazards.
- **Data-Driven Decisions:** We utilize data from inspections, incident investigations, and performance metrics to make informed decisions for risk mitigation and continuous improvement of our SMS.
- **Leadership Engagement:** Our leadership team actively demonstrates a commitment to safety by participating in safety reviews, audits, and promoting safety as a core value.
- **Contractor Collaboration:** We extend our safety commitment to our contractors. We require contractors working on our system to adhere to SMS principles, participate in safety briefings, and maintain strong safety programs within their own organizations.
- **Transparent Communication:** We believe in open communication about safety. We encourage employees and contractors to report concerns without fear of reprisal. We also maintain transparent communication with stakeholders about SMS performance.

This SMS commitment is a continuous journey, not a destination. We are dedicated to regularly reviewing and updating our system to reflect best practices and emerging technologies. Through continuous improvement and a commitment to a positive safety culture, we aim to remain an industry leader in safe and reliable utility service.

38.0 INFORMATION TECHNOLOGY

All Contracts are subject to Greenville Utilities Commission Information Technology Contract Provisions. These may be viewed at www.guc.com/doing-business-us.

39.0 NOTICES

Notices to the Parties should be sent to the names and addresses specified below:

Cleve Haddock, Lifetime CLGPO
Procurement Manager
Greenville Utilities Commission
P.O. Box 1847
Greenville, NC 27835-1847

Vendor Specified on Page 1 of Section III when awarded.

GREENVILLE UTILITIES COMMISSION

By: _____
Anthony C. Cannon

Title: General Manager/CEO
(Authorized Signatory)

Date: _____

Attest: _____

Name (Print): Amy Wade

Title: Executive Secretary

Date: _____

(OFFICIAL SEAL)

COMPANY NAME:

By: _____

Name (Print): _____

Title: _____
(Authorized Signatory)

Date: _____

Attest: _____

Name (Print): _____

Title: Corporate Secretary

Date: _____

(CORP. SEAL)

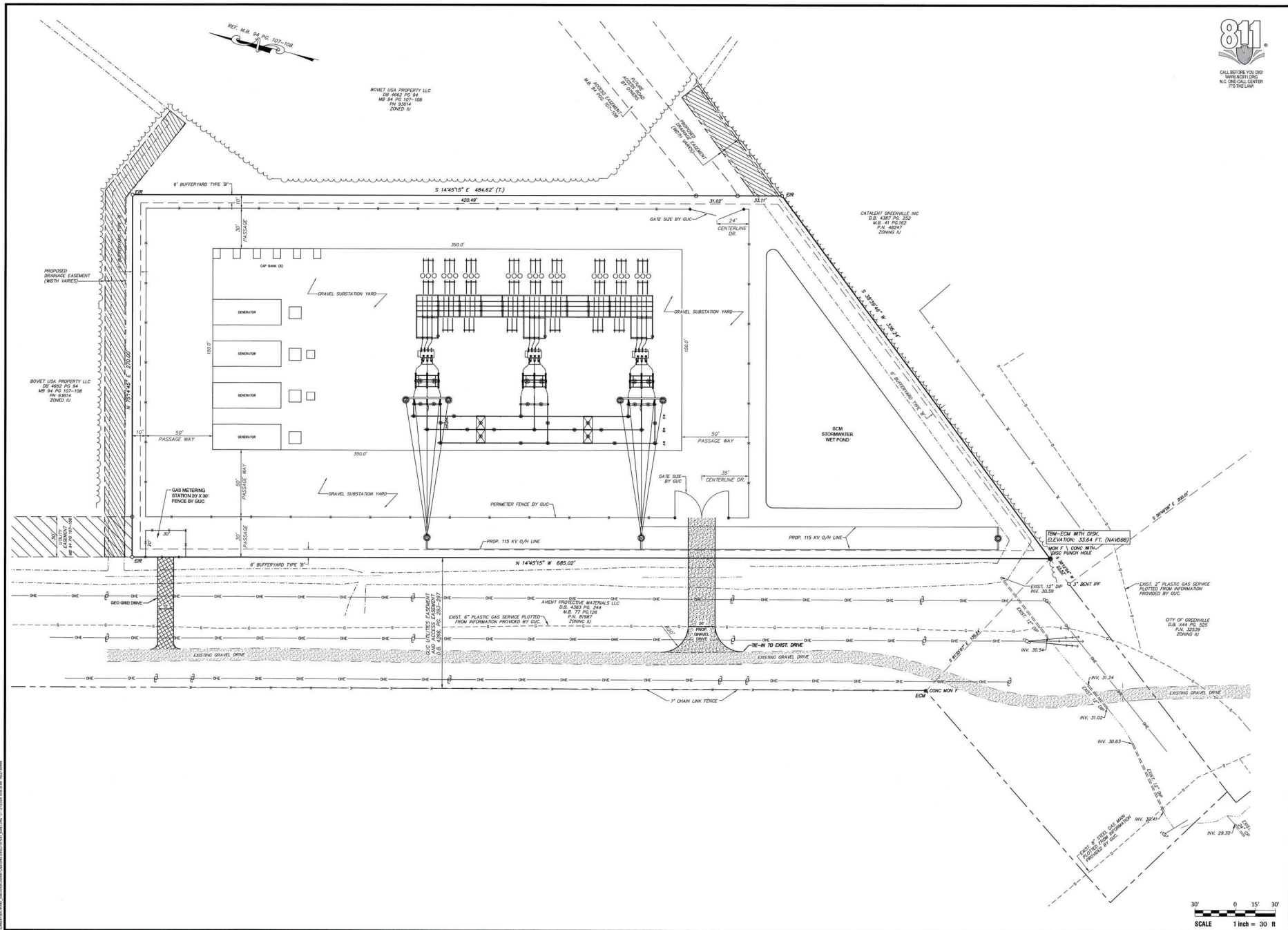
APPROVED AS TO FORM AND LEGAL CONTENT:

By: _____
Phillip R. Dixon

Title: General Counsel

Date: _____

APPENDIX A – PLAN VIEW



RIVERS
 & ASSOCIATES, LLC
 ENGINEERS
 PLANNERS
 ARCHITECTS
 107 East Second Street
 Greenville, NC 27838
 (252) 752-4135

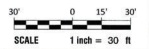


REVISIONS:

NO.	DESCRIPTION	DATE	BY
1	CITY REVIEW COMMENTS	1/10/26	KB
2	DESCRIPTION		

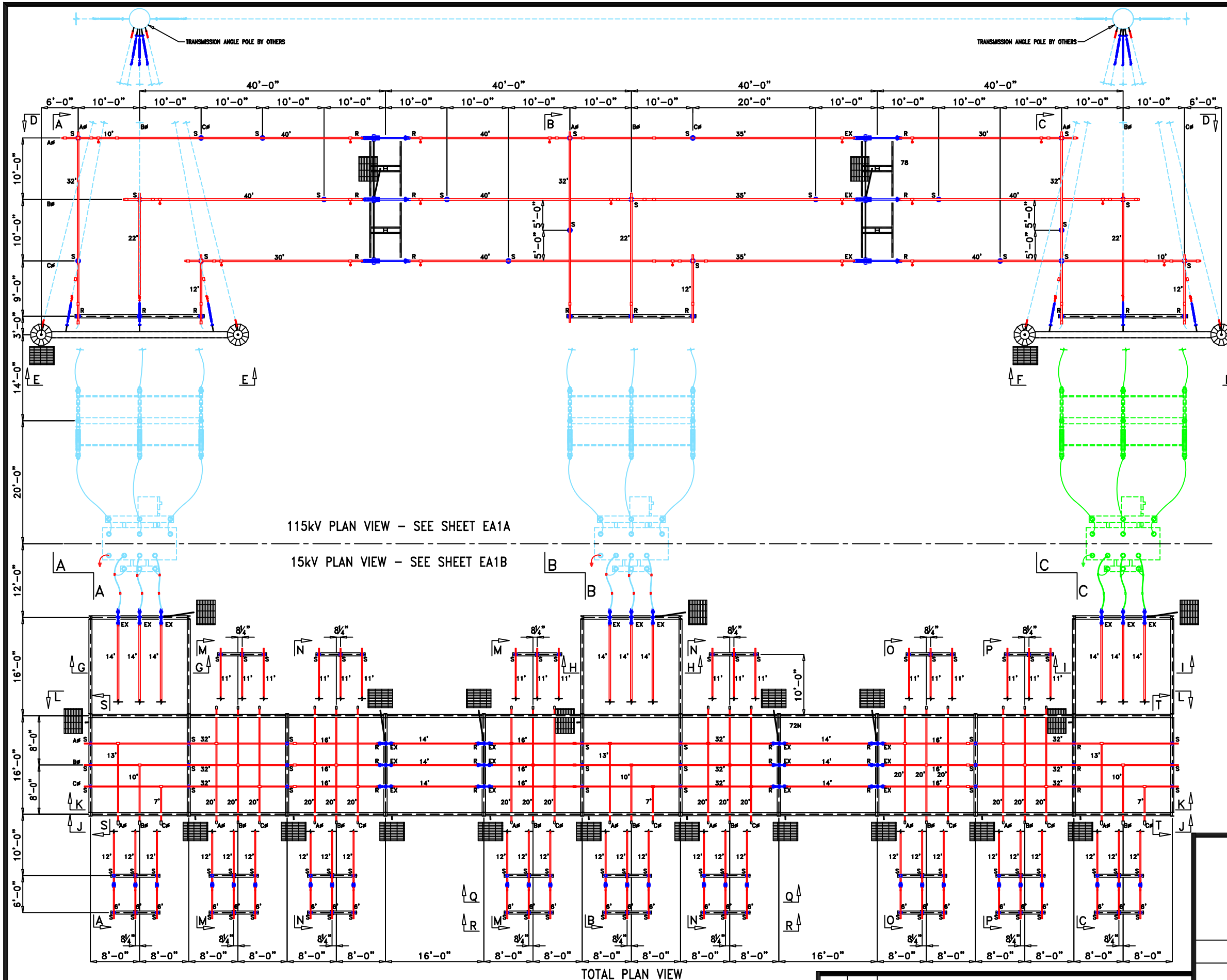
BOVIETS SUBSTATION
GREENVILLE UTILITIES COMMISSION
 CITY OF GREENVILLE - PITT COUNTY - NORTH CAROLINA
SITE PLAN

DATE: JANUARY 12, 2026
 DESIGNED BY: JVV
 DRAWN BY: KB
 CHECKED BY: JDV
 PROJECT NO: 2026087
 DRAWING NO: W-4267
 SCALE: AS NOTED



SHEET NO. **C7**

APPENDIX B – STEEL DETAILS & ELEVATIONS



GENERAL NOTES:

1. FUTURE -----
2. BY OTHERS -----
3. BUS LENGTHS HAVE BEEN ESTIMATED ONLY. PLEASE FIELD VERIFY BEFORE CUTTING.
4. DAMPENING CABLE SHOULD BE INSTALLED IN ALL ALUMINUM PIPE RUNS OVER 20 FOOT.
5. WEEP HOLES SHOULD BE DRILLED IN PIPE AT MID SPAN.
6. BUS CONNECTIONS:
 S - SLIP
 R - RIGID
 EX - EXPANSION
7. EXPANSION CONNECTORS MUST BE USED IN RIGID BUS RUNS TO COMPENSATE FOR EXPANSION AND CONTRACTION.
8. SUBSTATION ENTERPRISES DOES NOT ASSUME RESPONSIBILITY FOR PROPER PHASE IDENTIFICATION. THESE DRAWINGS REFLECT SEI'S BEST INTERPRETATION AT TIME OF DRAWING PREPARATION BASED ON INFORMATION AVAILABLE AT THE TIME. INSTALLATION PERSONNEL SHOULD ALWAYS VERIFY BEFORE STATION IS ENERGIZED.
9. ALL BOLTED CONNECTIONS SHALL BE INSTALLED WITH THE NUTS TO THE INSIDE OF THE MEMBER OR DOWN. BOLT TORQUES ARE AS FOLLOWS:

BOLT SIZE	LUBRICATED	DRY
1/2"	25 FT. LBS.	40 FT. LBS.
5/8"	40 FT. LBS.	55 FT. LBS.

FOR APPROVAL ONLY
 DATE: **03-20-26** BY: **LJW**

Substation Enterprises, Inc.

145 Commercial Court, P.O. Box 2010
 Alabaster, AL 35007
 Phone: (205)685-2755, Fax: (205)685-2753

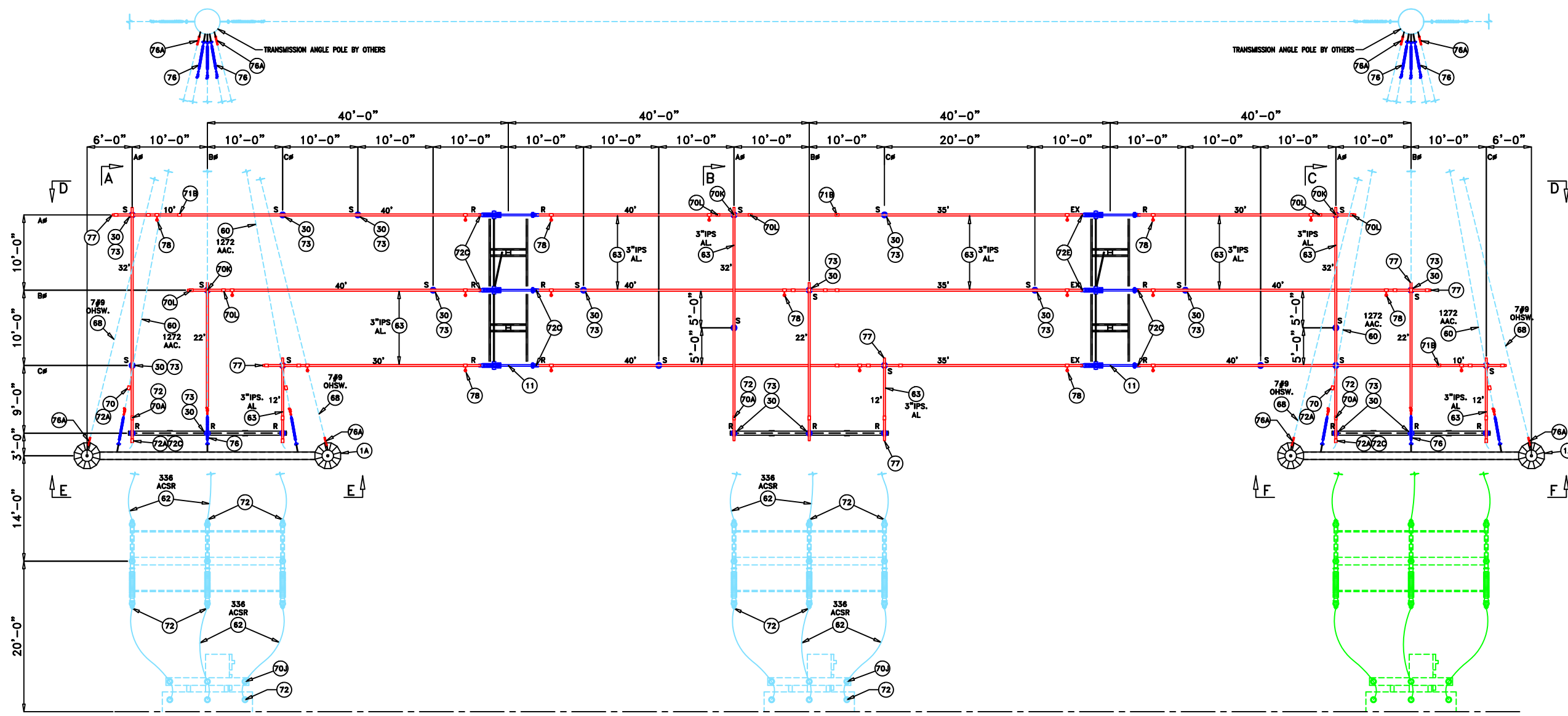
GREENVILLE UTILITIES COMMISSION

BOVIET (115/15kV) SUBSTATION

ELECTRICAL ARRANGEMENTS - TOTAL PLAN VIEW

DATE: 03-18-26	DRAWN BY: LJW	CHECKED BY: LJW	DRAWING NUMBER:
SCALE: 1/8"=1'-0"	APPROVED BY:		FK-7145-EA1

REV	DATE	DESCRIPTION



A

15kV PLAN VIEW - SEE SHEET EA1B

B

115kV PLAN VIEW

C

REV	DATE	DESCRIPTION

Substation Enterprises, Inc.

145 Commercial Court, P.O. Box 2010
Alabaster, AL 35007
Phone: (205)685-2755, Fax: (205)685-2753

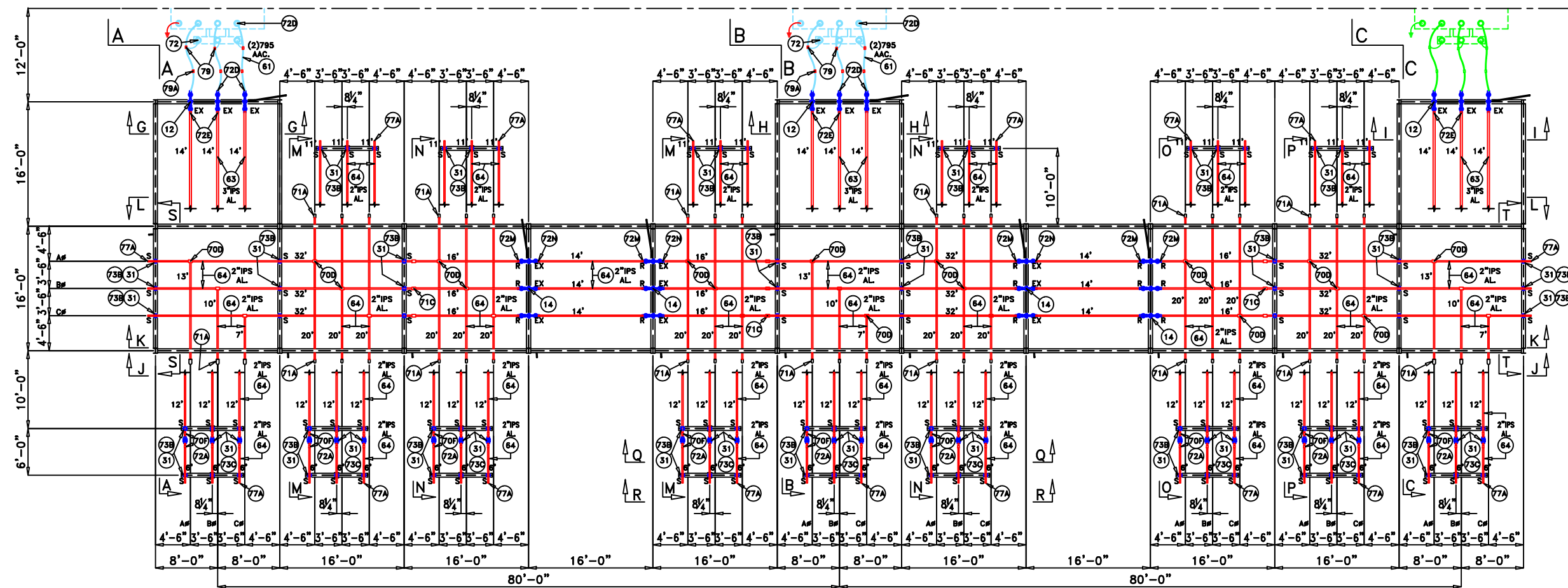
GREENVILLE UTILITIES COMMISSION

BOVIET (115/15kV) SUBSTATION

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SCALE: 1/8" = 1'-0"	APPROVED BY:		FK-7145-EA1A

115kV PLAN VIEW - SEE SHEET EA1A



15kV PLAN VIEW

Substation Enterprises, Inc.

145 Commercial Court, P.O. Box 2010
 Alabaster, AL 35007
 Phone: (205)685-2755, Fax: (205)685-2753

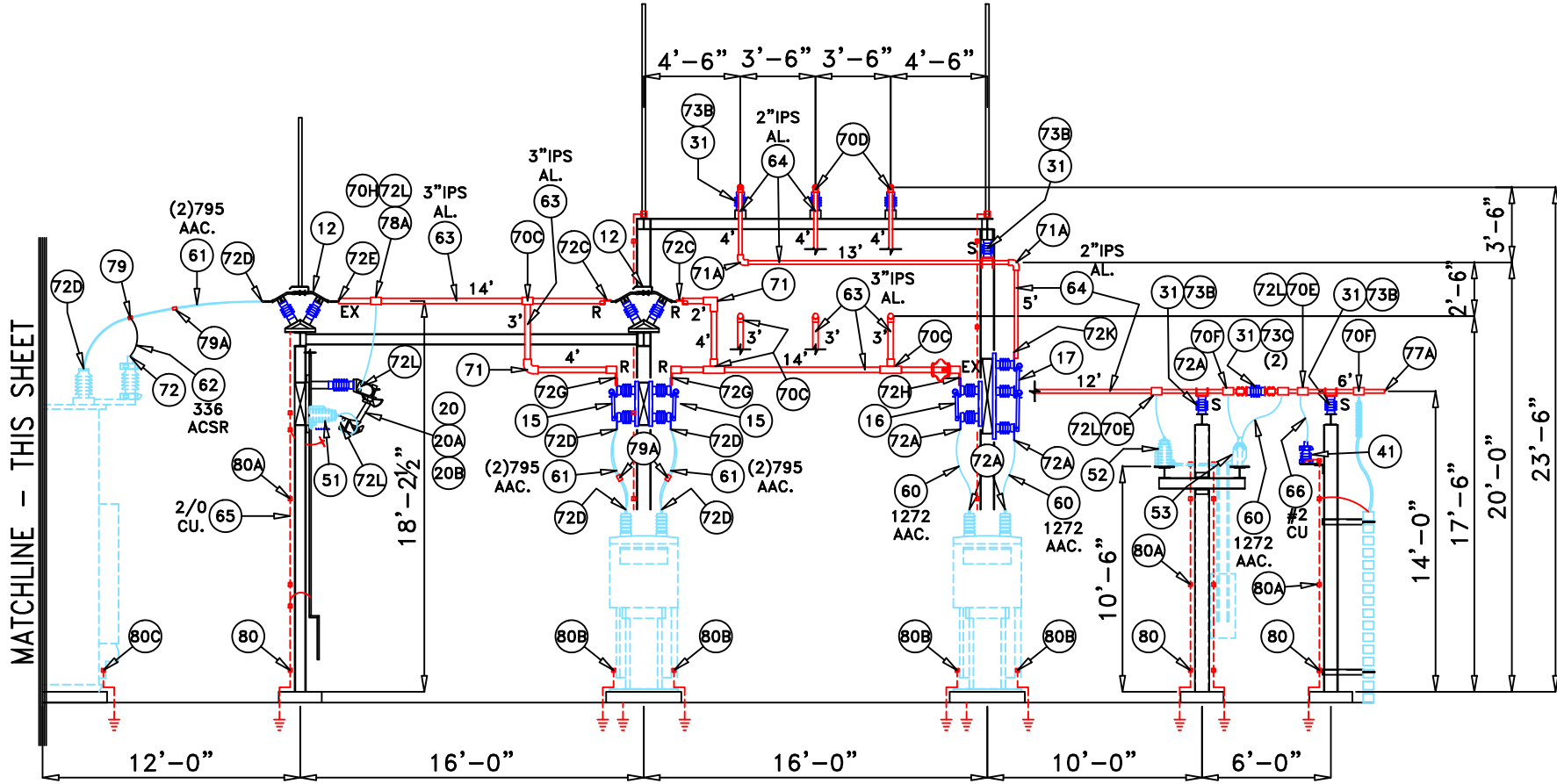
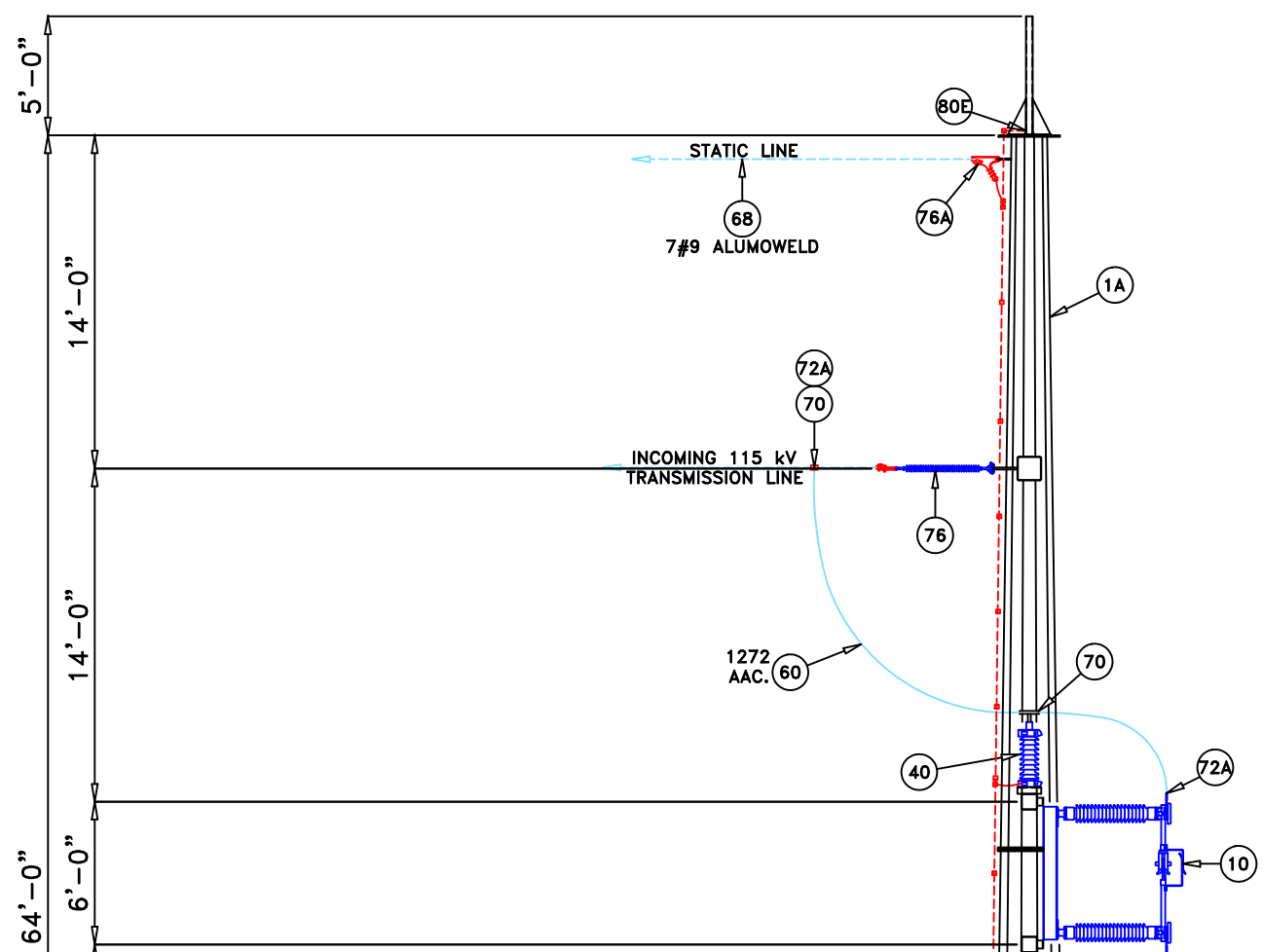
GREENVILLE UTILITIES COMMISSION

BOVIET (115/15kV) SUBSTATION

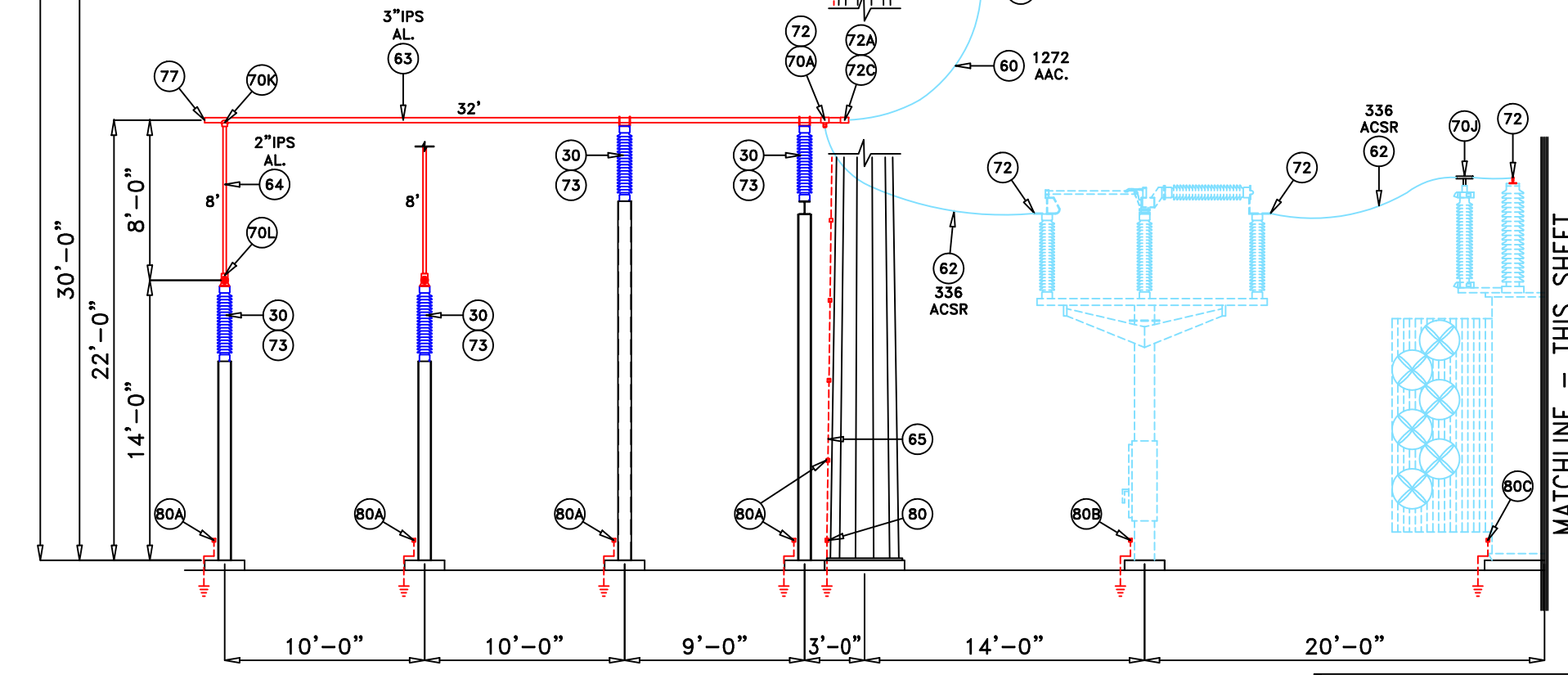
ELECTRICAL ARRANGEMENTS - 15kV PLAN VIEW

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 SCALE: 1/8"=1'-0" APPROVED BY: FK-7145-EA1B

REV	DATE	DESCRIPTION



PARTIAL SECTION A-A



SECTION A-A CONT'D

REV	DATE	DESCRIPTION

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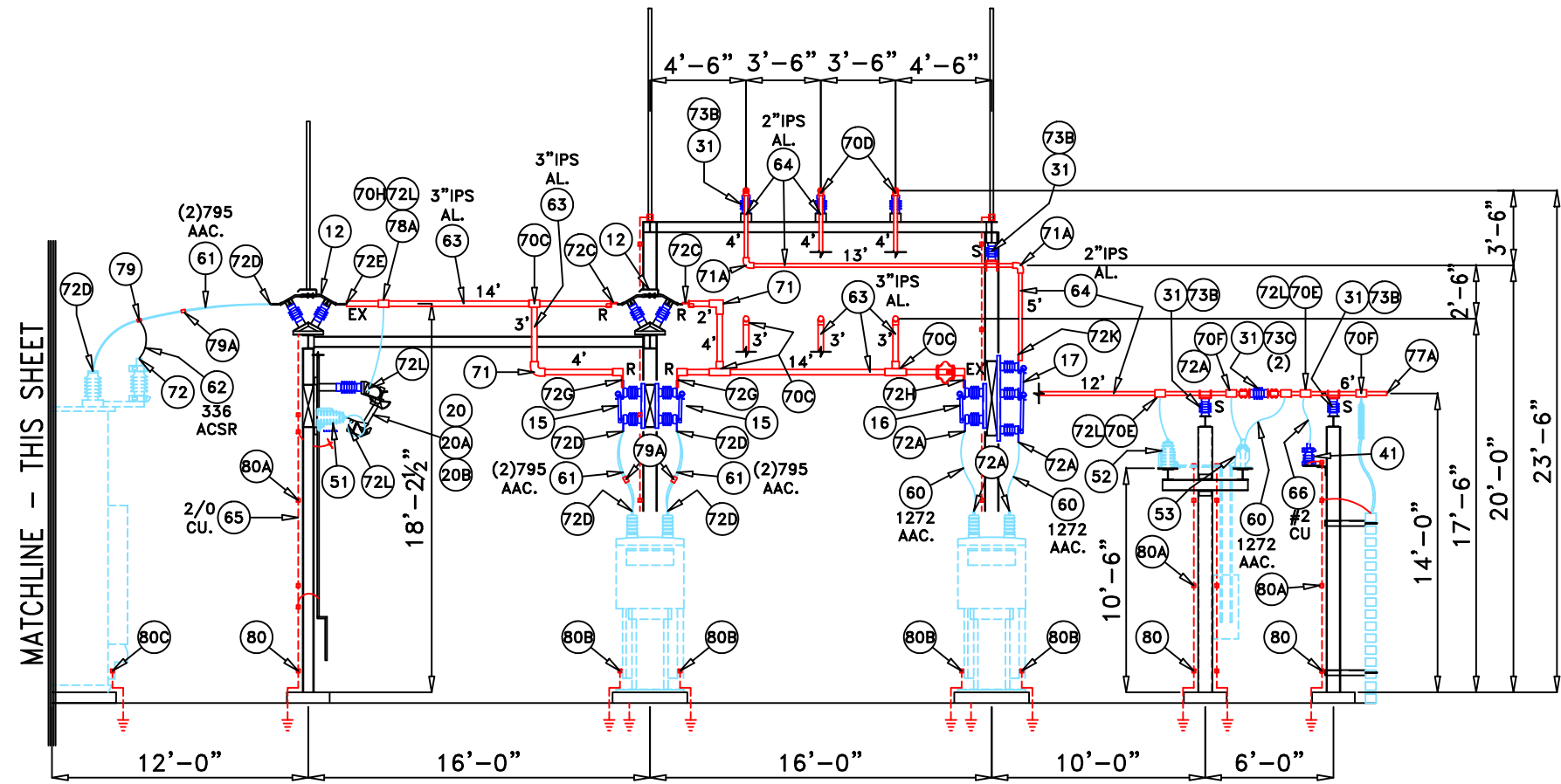
145 Commercial Court, P.O. Box 2010
Alabaster, AL 35007
Phone: (205)685-2755, Fax: (205)685-2753

GREENVILLE UTILITIES COMMISSION

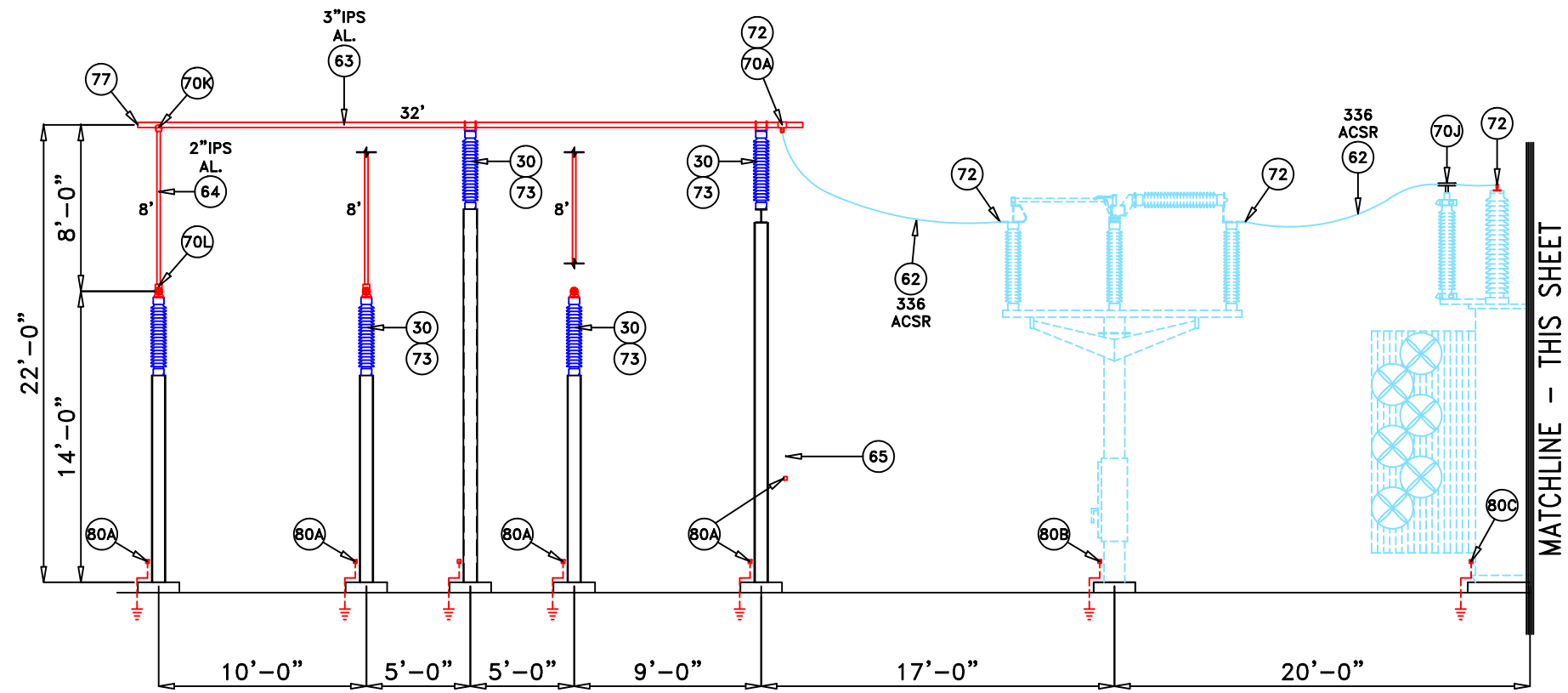
BOVIET (115/15kV) SUBSTATION

ELECTRICAL ARRANGEMENTS - SECTION A-A

DATE: 03-19-26	DRAWN BY: LJW	CHECKED BY: LJW	DRAWING NUMBER:
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PARTIAL SECTION B-B



SECTION B-B CONT'D

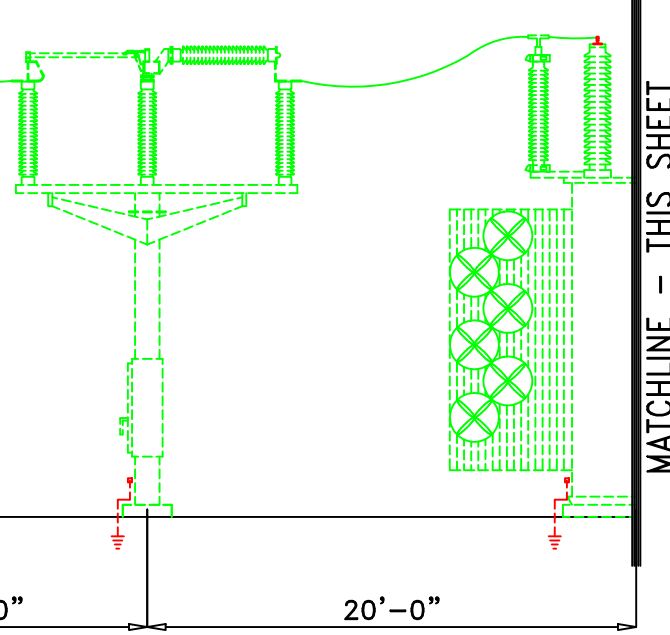
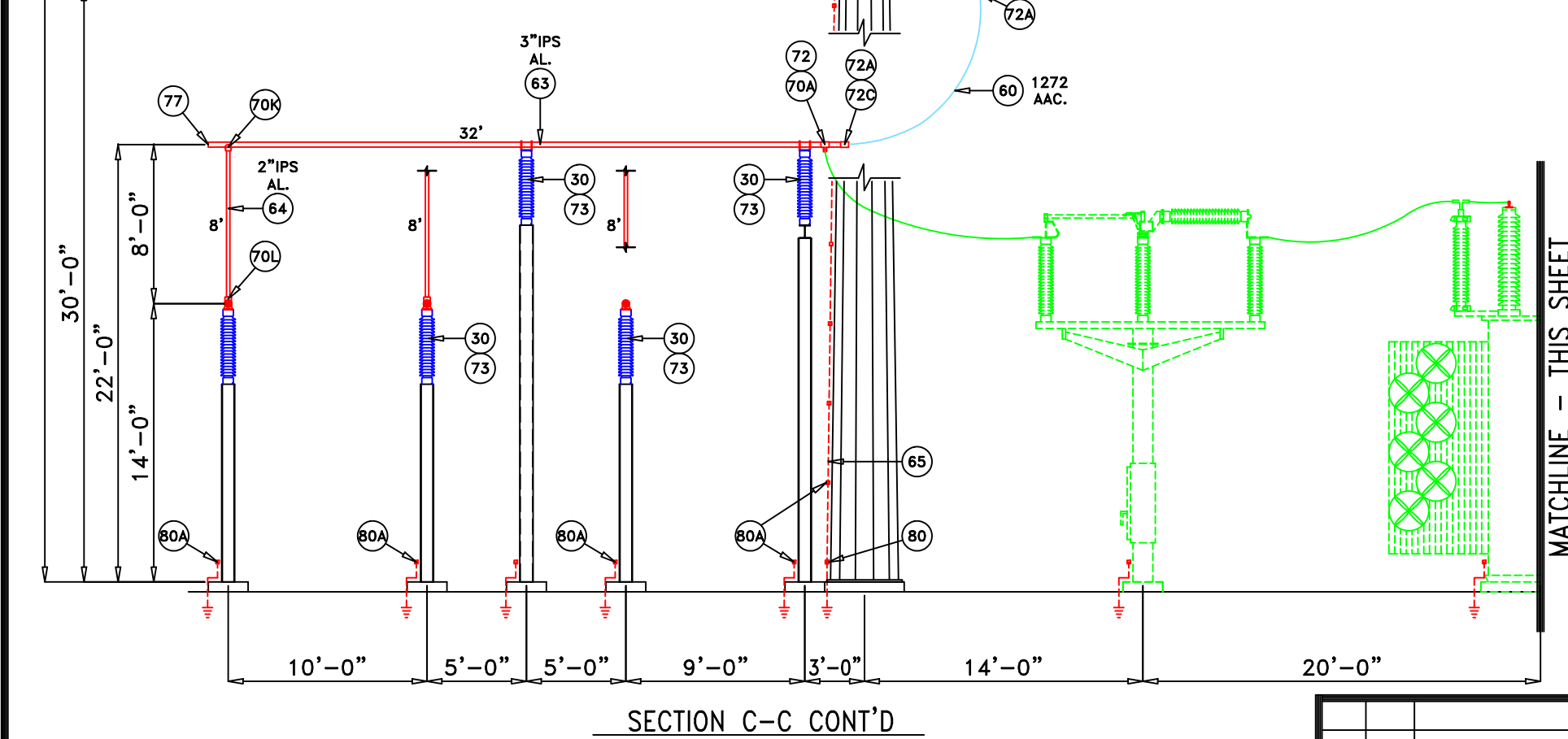
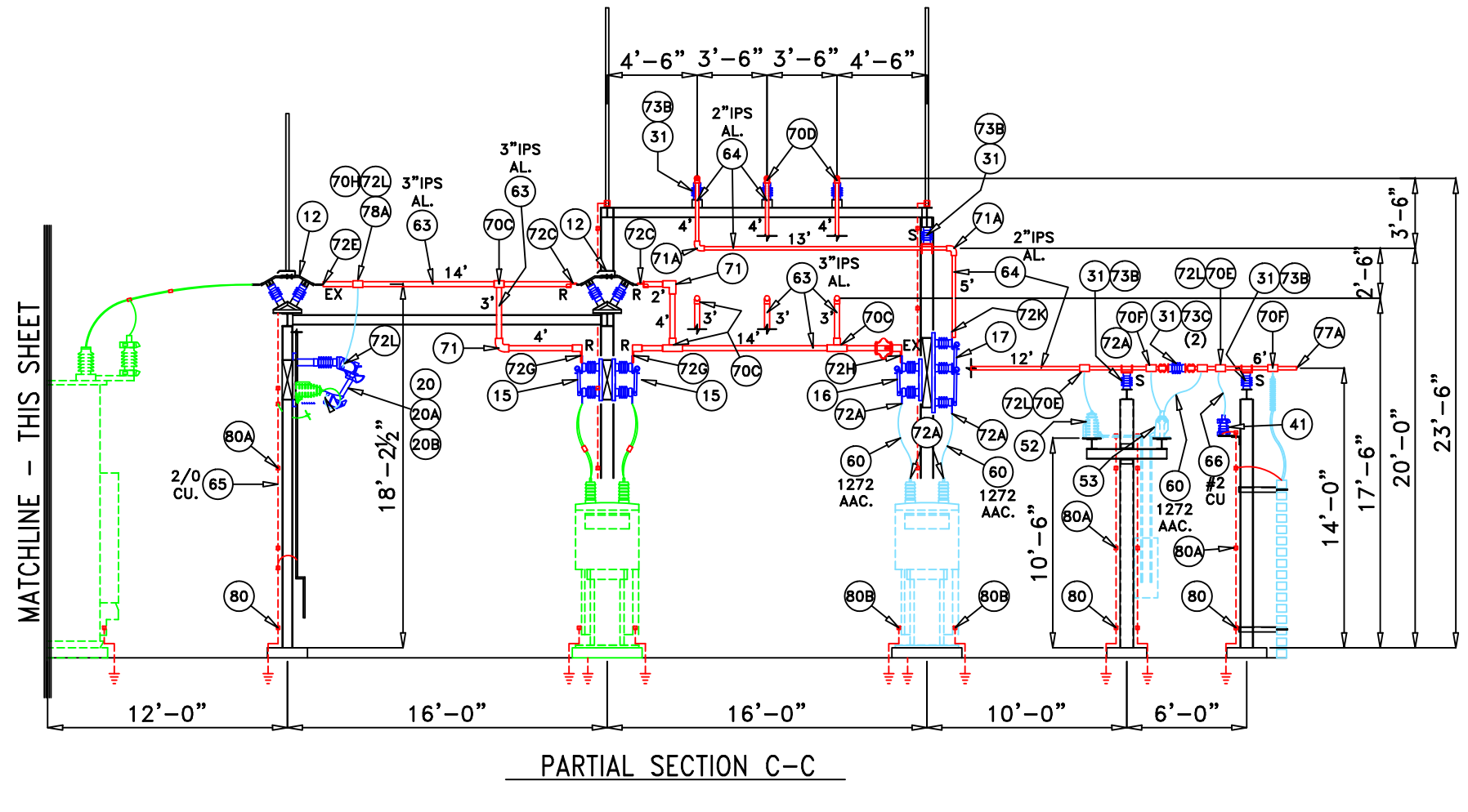
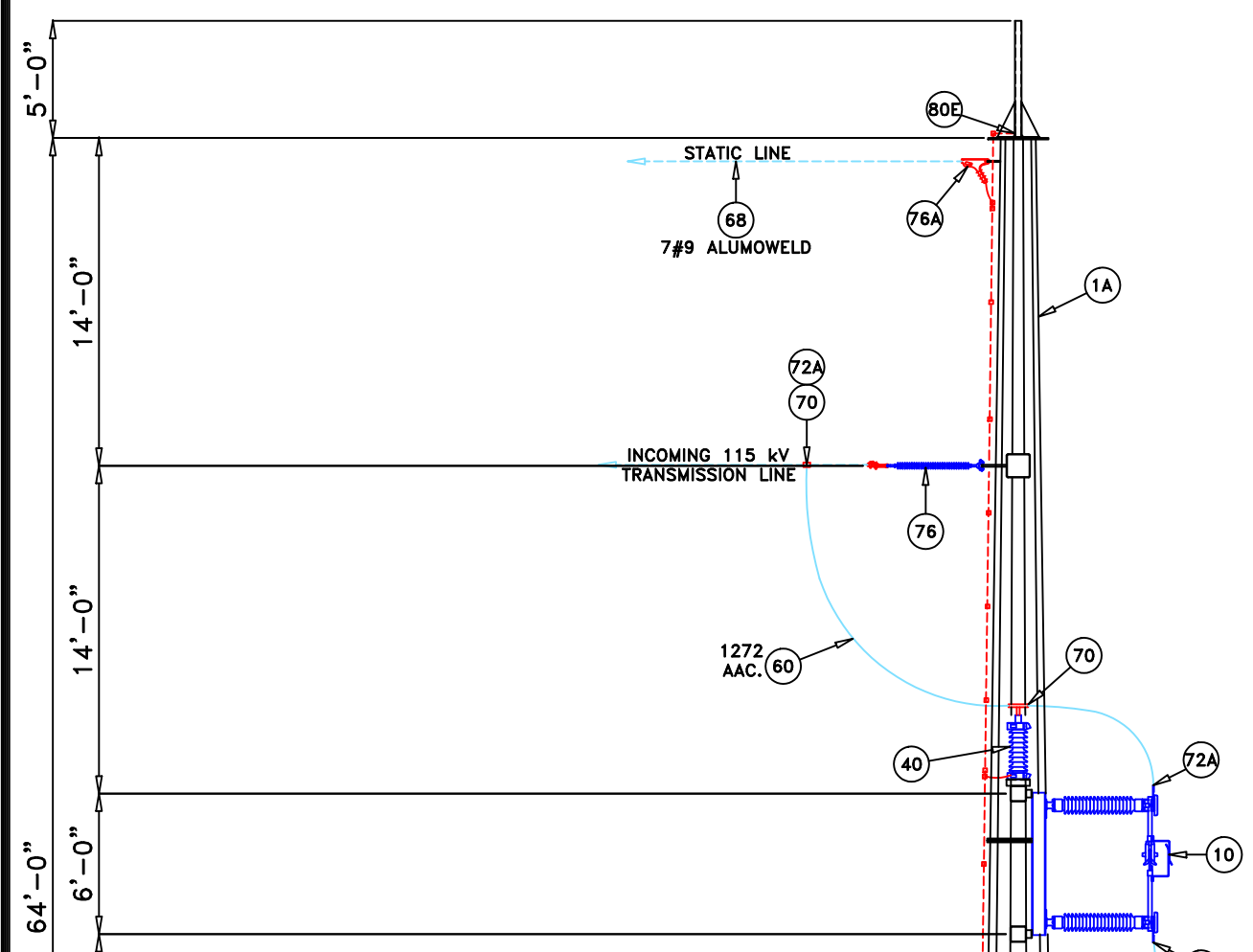
REV	DATE	DESCRIPTION



Substation Enterprises, Inc.

145 Commercial Court, P.O. Box 2010
 Alabaster, AL 35007
 Phone: (205)685-2755, Fax: (205)685-2753

GREENVILLE UTILITIES COMMISSION			
BOVIET (115/15kV) SUBSTATION			
ELECTRICAL ARRANGEMENTS - SECTION B-B			
DATE: 03-19-26	DRAWN BY: LJW	CHECKED BY: LJW	DRAWING NUMBER:
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REV	DATE	DESCRIPTION

Substation Enterprises, Inc.

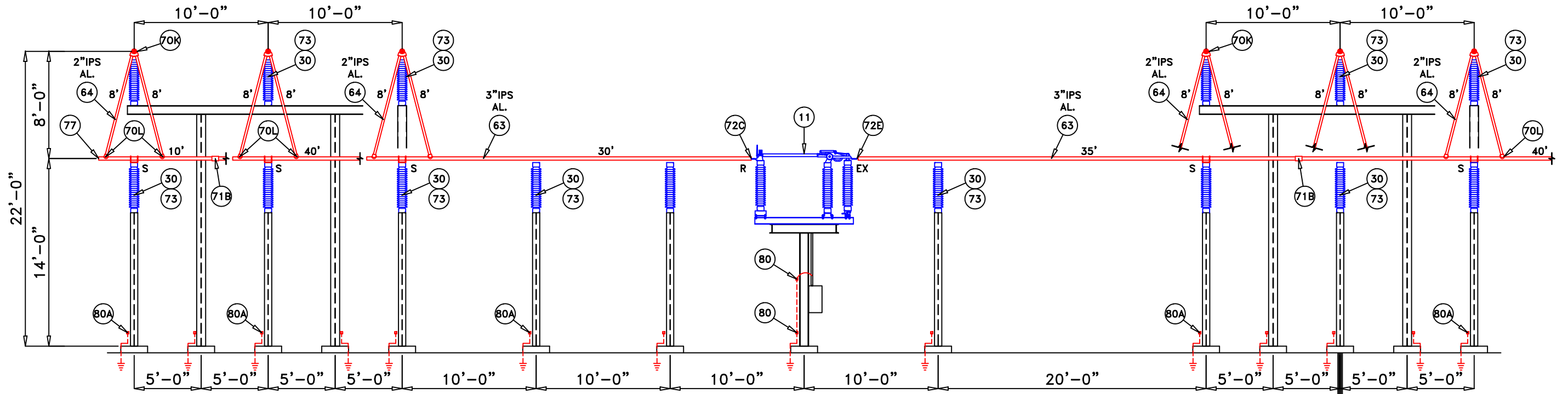
145 Commercial Court, P.O. Box 2010
 Alabaster, AL 35007
 Phone: (205)685-2755, Fax: (205)685-2753

GREENVILLE UTILITIES COMMISSION

BOVIET (115/15kV) SUBSTATION

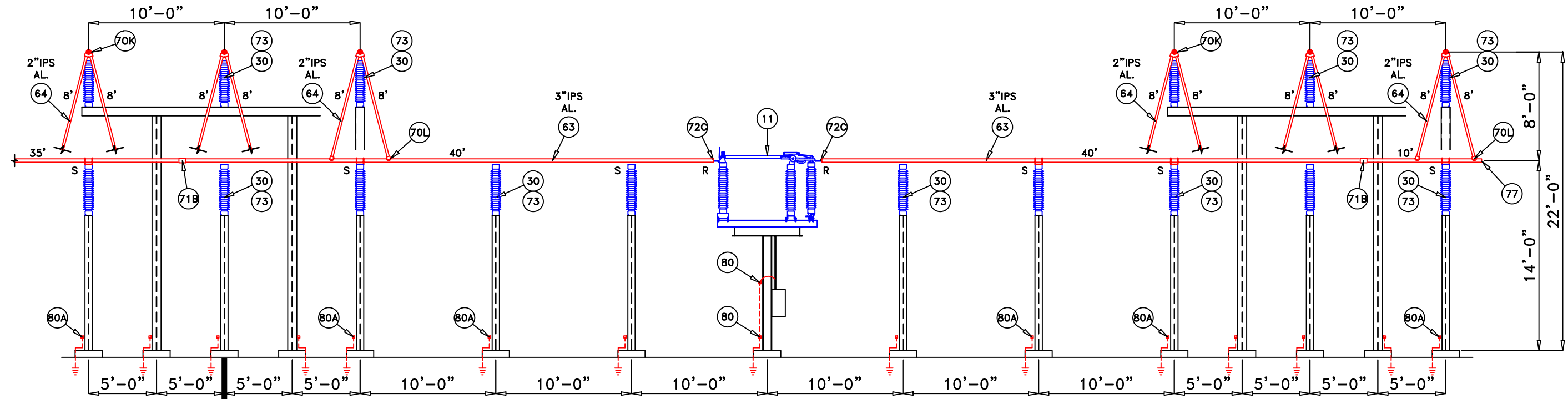
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DATE: 03-19-26 DRAWN BY: LJW CHECKED BY: LJW DRAWING NUMBER:
 SCALE: 1/4"=1'-0" APPROVED BY: FK-7145-EA4



PARTIAL SECTION D-D

MATCHLINE
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SECTION D-D CONT'D

MATCHLINE
THIS SHEET

Substation Enterprises, Inc.

145 Commercial Court, P.O. Box 2010
Alabaster, AL 35007
Phone: (205)685-2755, Fax: (205)685-2753

GREENVILLE UTILITIES COMMISSION

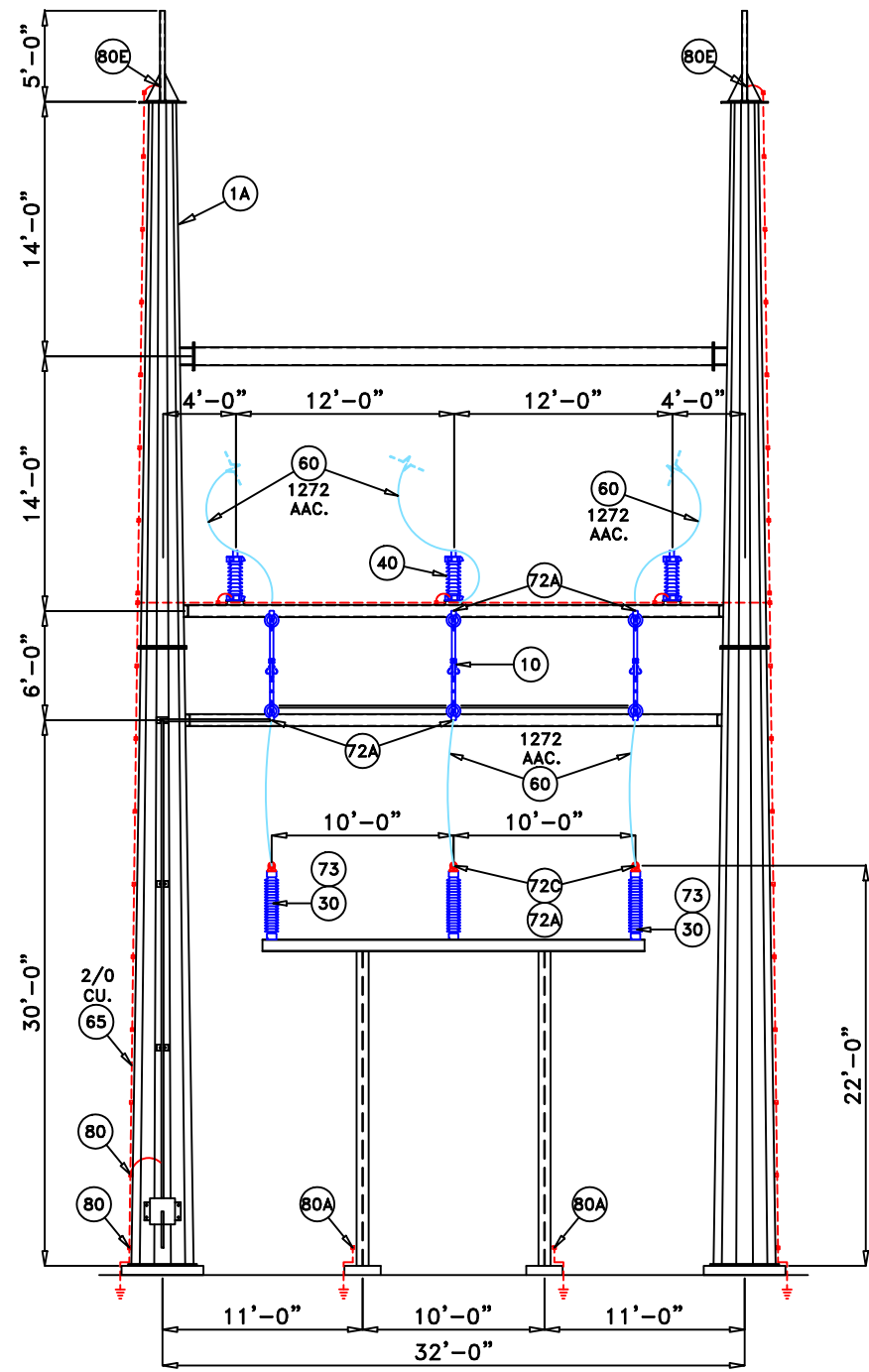
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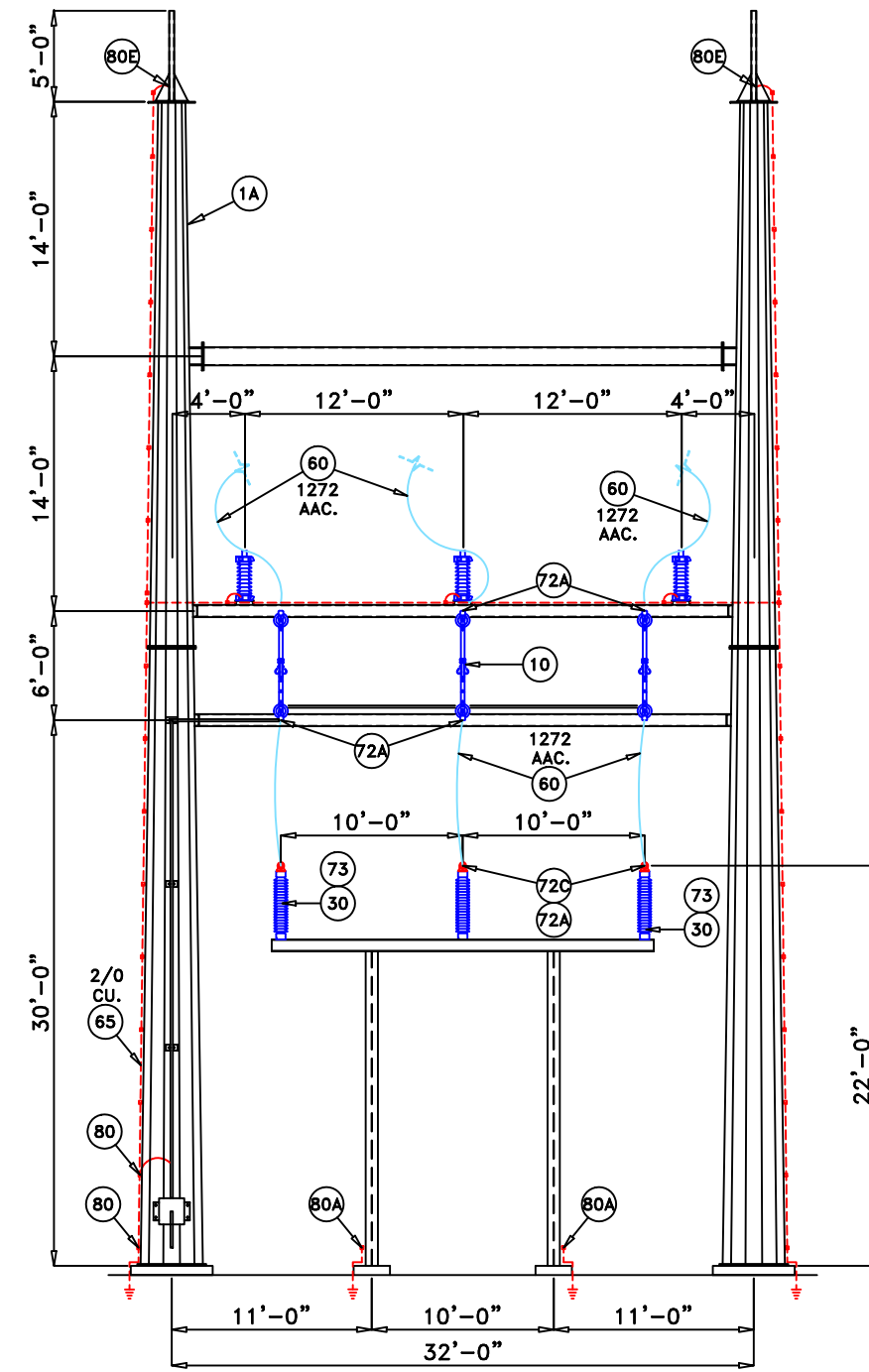
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REV	DATE	DESCRIPTION



SECTION E-E



SECTION F-F

Substation Enterprises, Inc.

145 Commercial Court, P.O. Box 2010
 Alabaster, AL 35007
 Phone: (205)685-2755, Fax: (205)685-2753

GREENVILLE UTILITIES COMMISSION

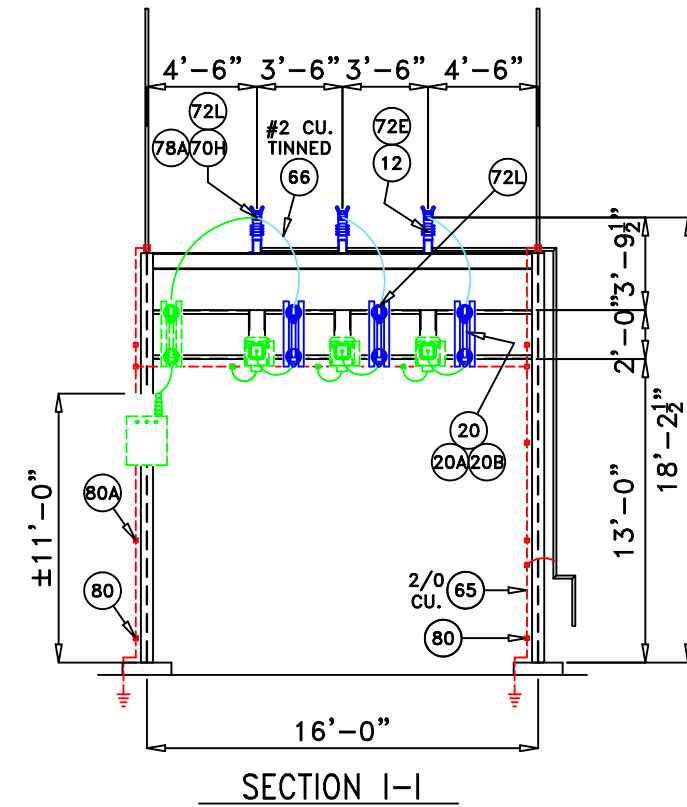
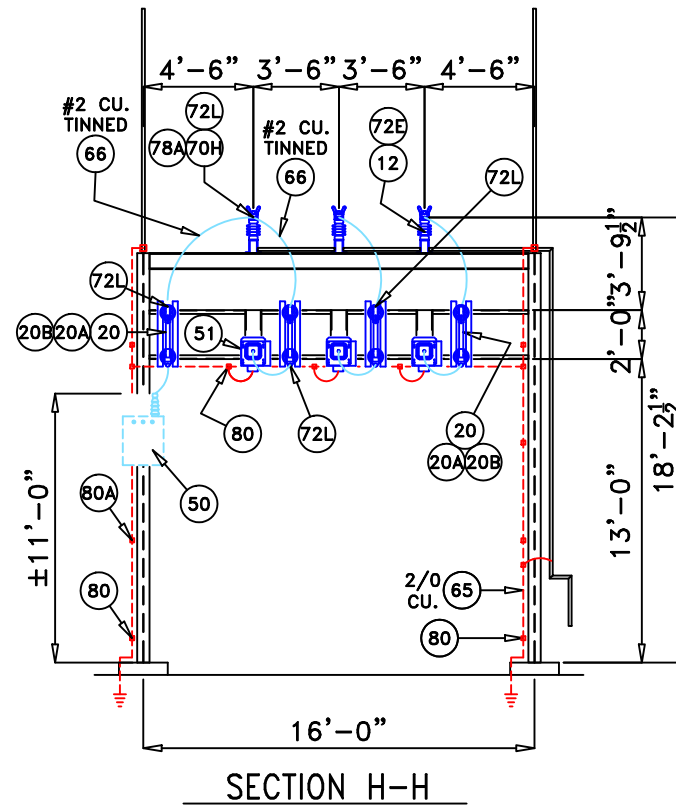
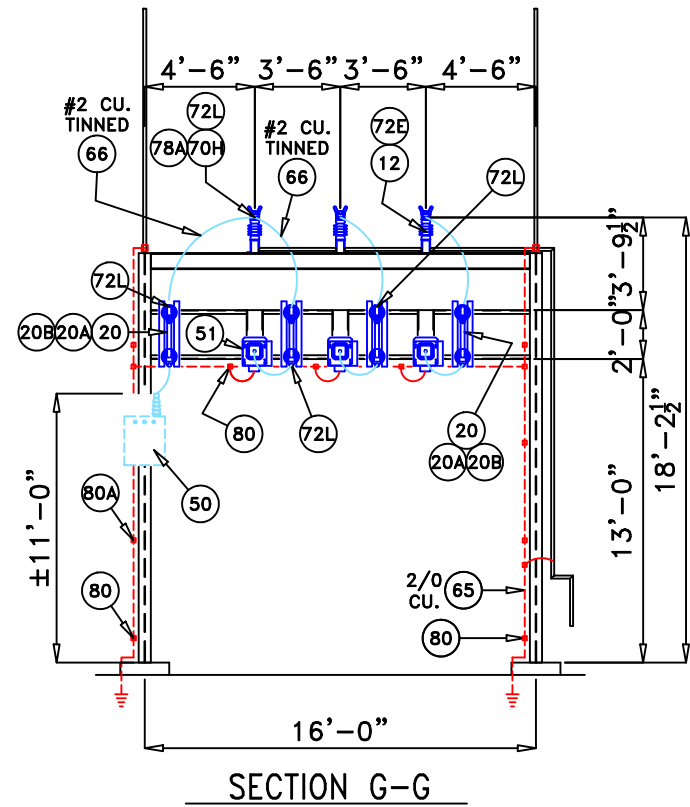
BOVIET (115/15kV) SUBSTATION

ELECTRICAL ARRANGEMENTS - SECTIONS E-E & F-F

DATE: 03-19-26 DRAWN BY: LJW CHECKED BY: LJW DRAWING NUMBER:

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REV	DATE	DESCRIPTION



REV	DATE	DESCRIPTION

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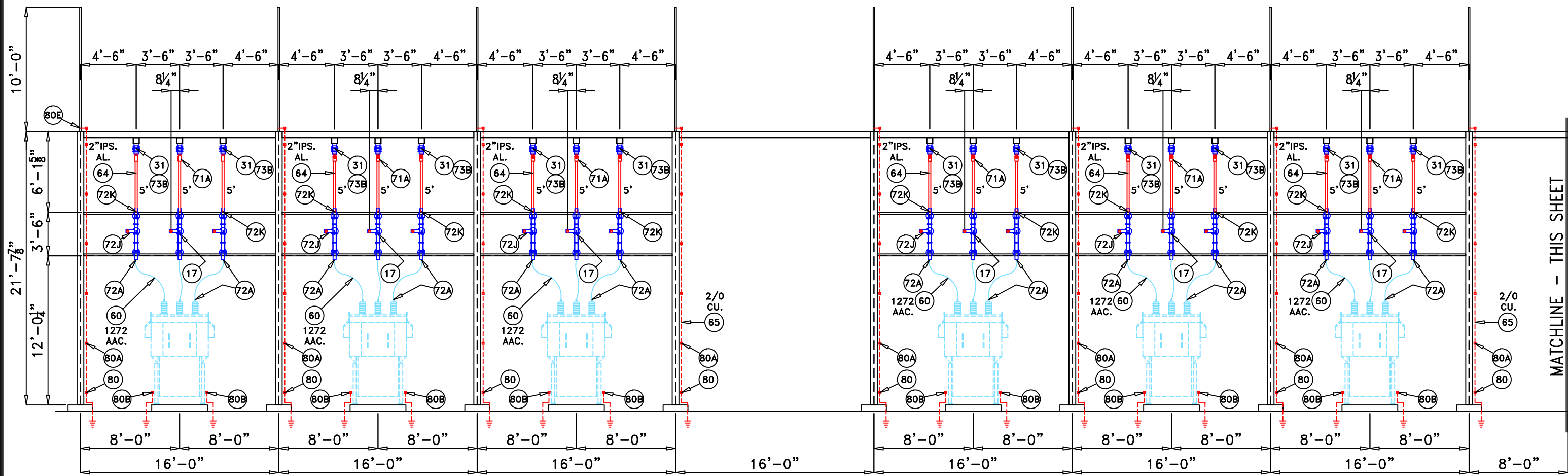
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 Alabaster, AL 35007
 Phone: (205)685-2755, Fax: (205)685-2753

GREENVILLE UTILITIES COMMISSION

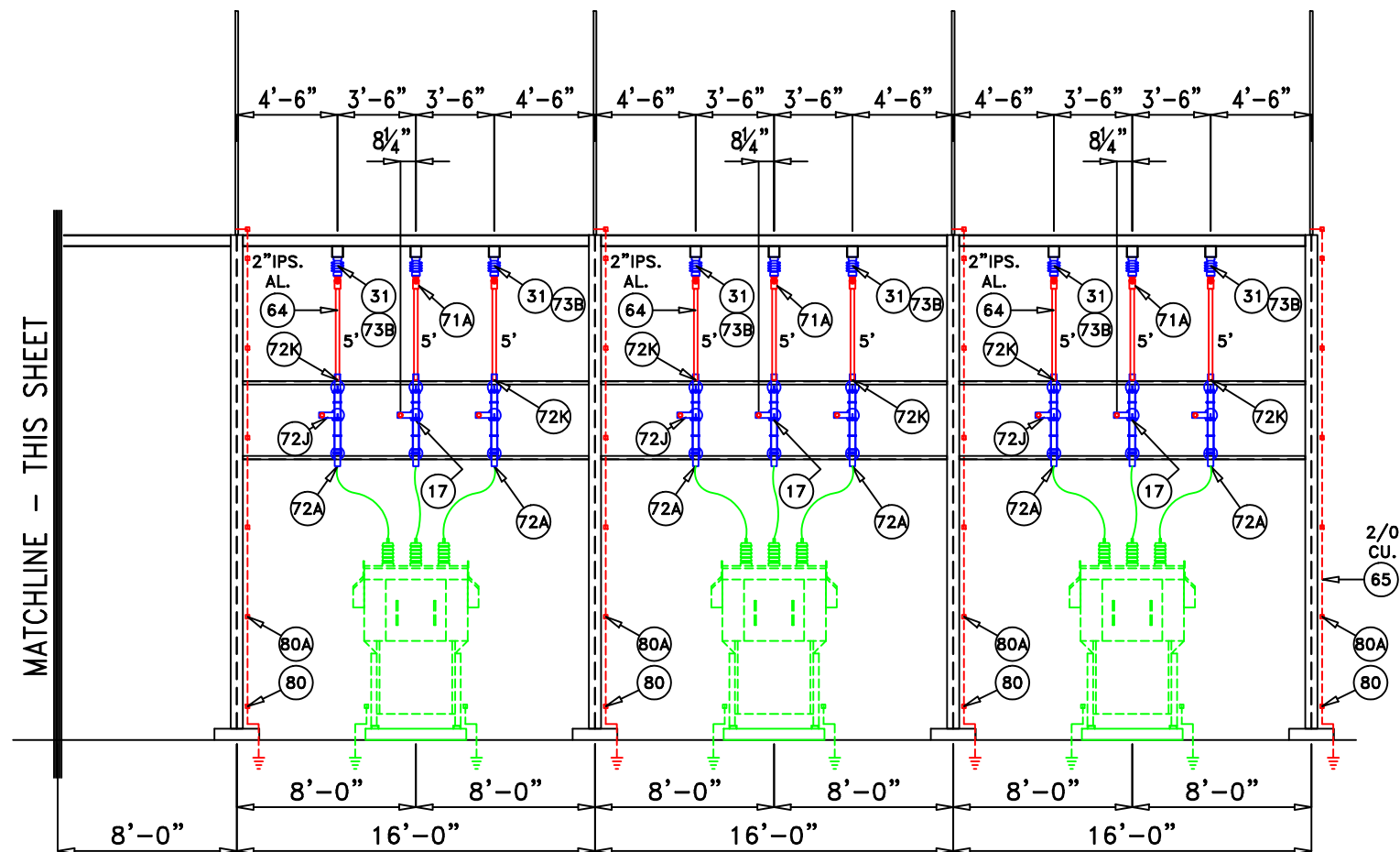
BOVIET (115/15kV) SUBSTATION

ELECTRICAL ARRANGEMENTS - SECTIONS G-G, H-H & I-I

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PARTIAL SECTION J-J




SECTION J-J CONT'D

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MATCHLINE - THIS SHEET

REV	DATE	DESCRIPTION



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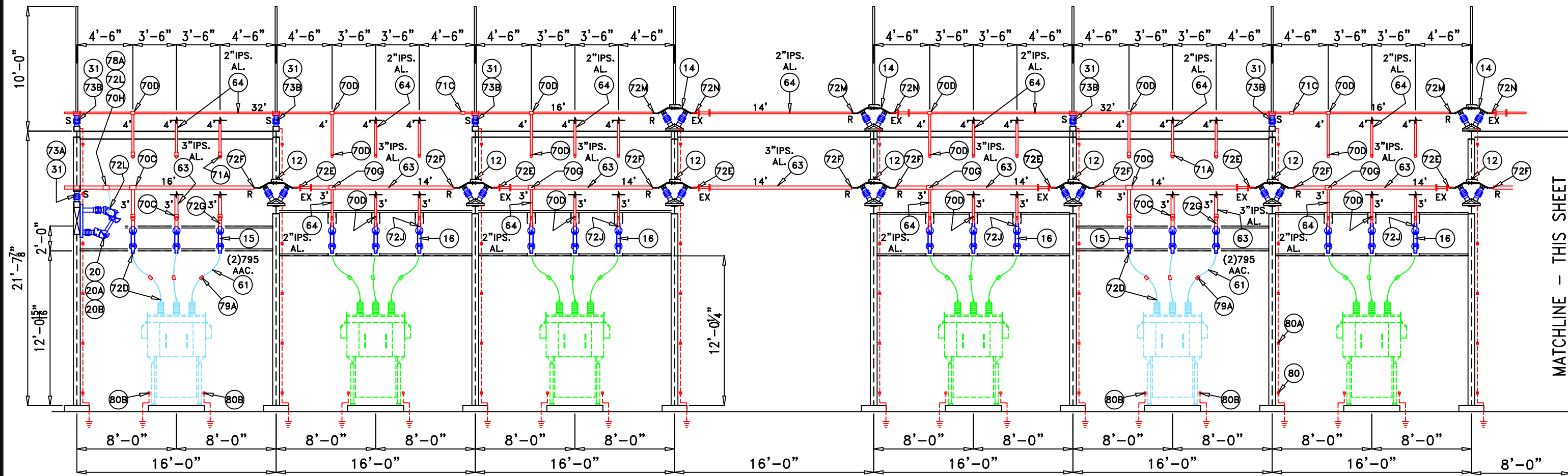
145 Commercial Court, P.O. Box 2010
 Alabaster, AL 35007
 Phone: (205)685-2755, Fax: (205)685-2753

GREENVILLE UTILITIES COMMISSION

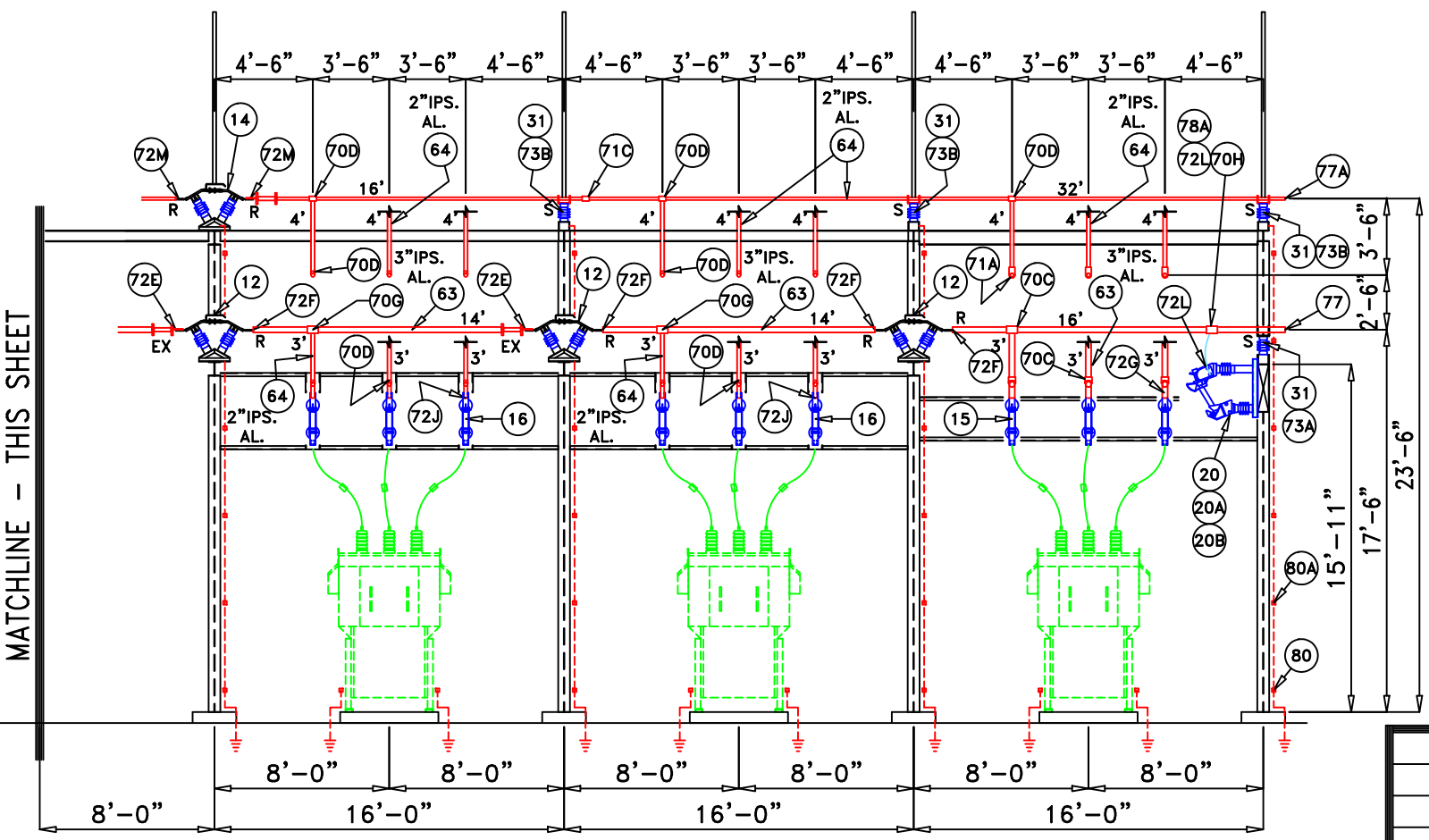
BOVIET (115/15kV) SUBSTATION

ELECTRICAL ARRANGEMENTS - SECTION J-J

DATE: 03-19-26	DRAWN BY: LJW	CHECKED BY: LJW	DRAWING NUMBER:
SCALE: 1/4"=1'-0"	APPROVED BY:		FK-7145-EA8



PARTIAL SECTION K-K



SECTION K-K CONT'D

MATCHLINE - THIS SHEET

MATCHLINE - THIS SHEET

Substation Enterprises, Inc.

145 Commercial Court, P.O. Box 2010
Alabaster, AL 35007
Phone: (205)685-2755, Fax: (205)685-2753

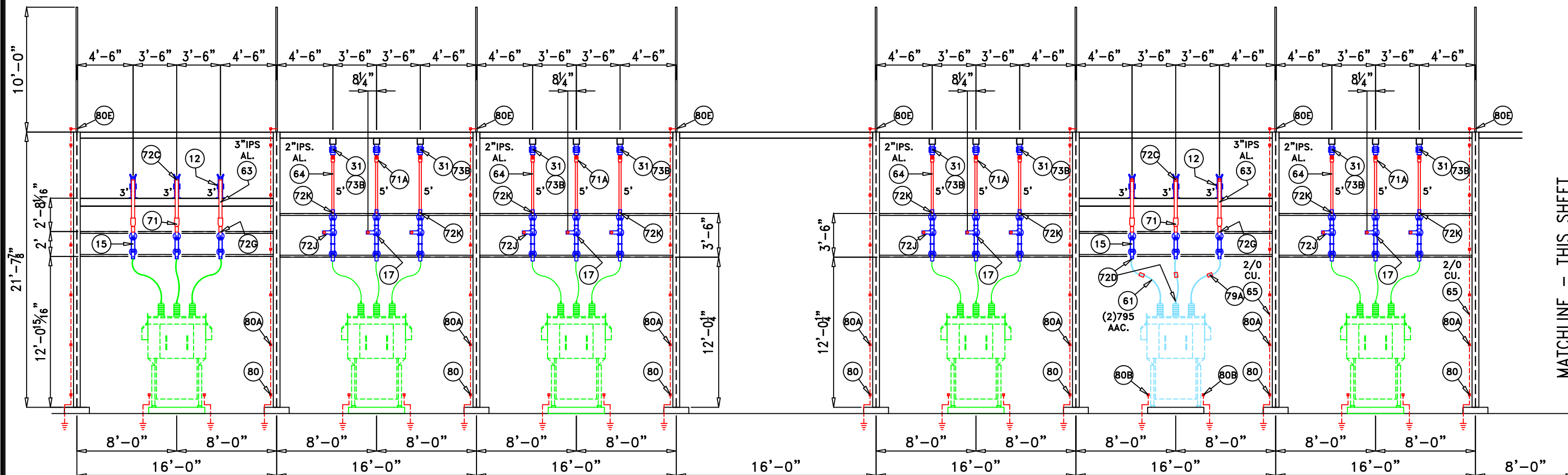
GREENVILLE UTILITIES COMMISSION

BOVIET (115/15kV) SUBSTATION

ELECTRICAL ARRANGEMENTS - SECTION K-K

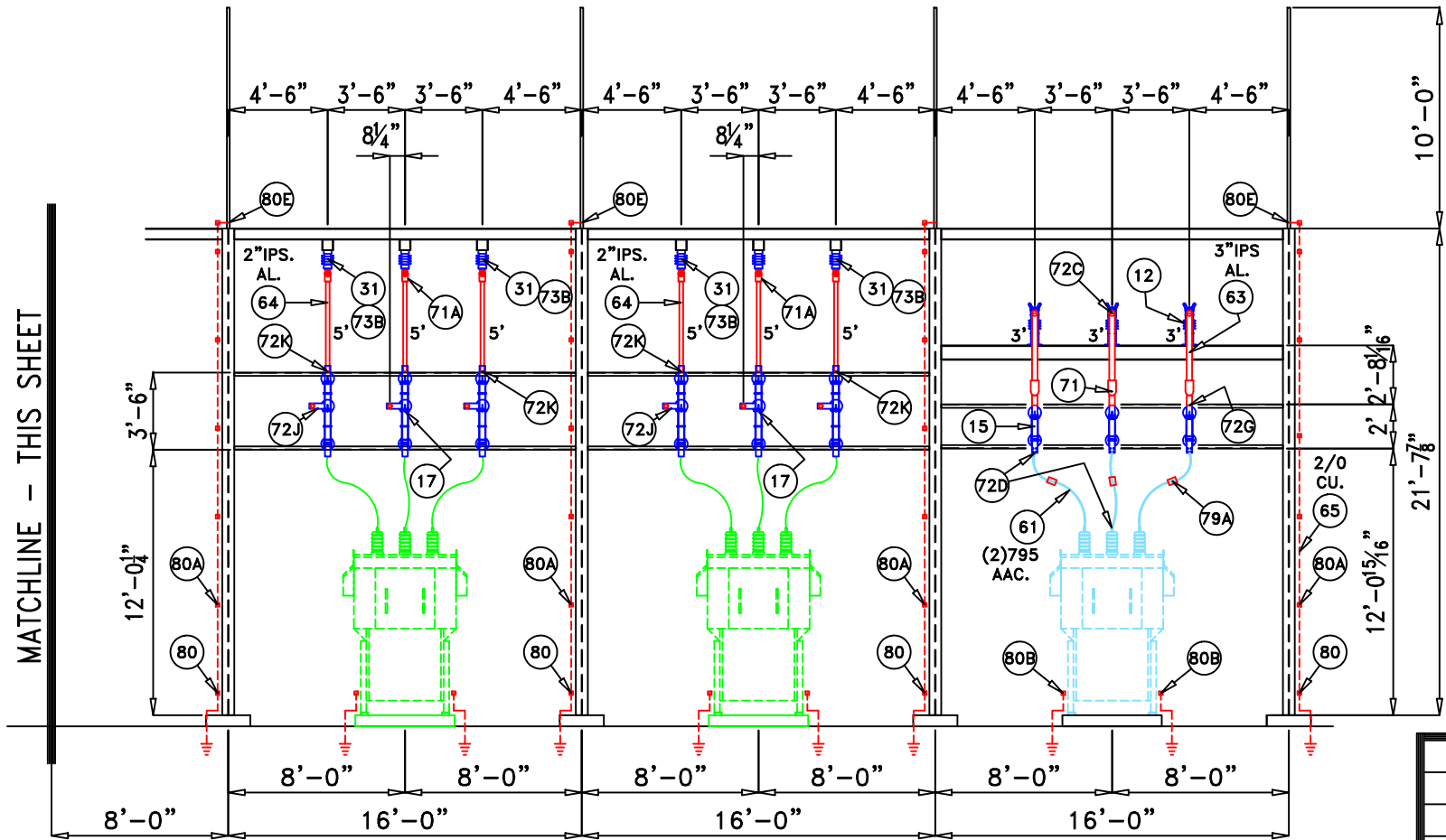
DATE: 03-19-26	DRAWN BY: LJW	CHECKED BY: LJW	DRAWING NUMBER:
SCALE: 1/4"=1'-0"	APPROVED BY:		FK-7145-EA9

REV	DATE	DESCRIPTION



PARTIAL SECTION L-L

MATCHLINE - THIS SHEET



SECTION L-L CONT'D

MATCHLINE - THIS SHEET

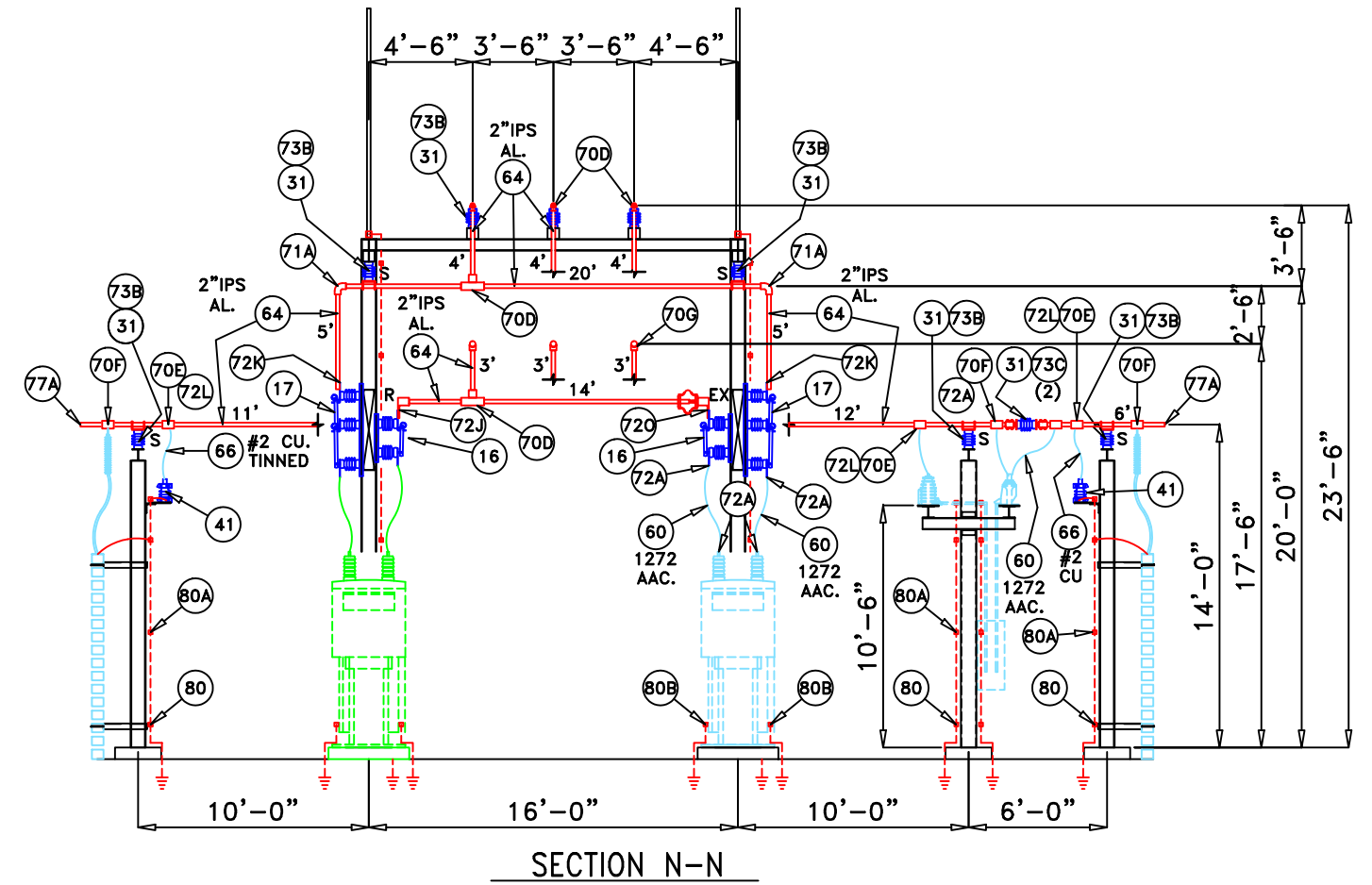
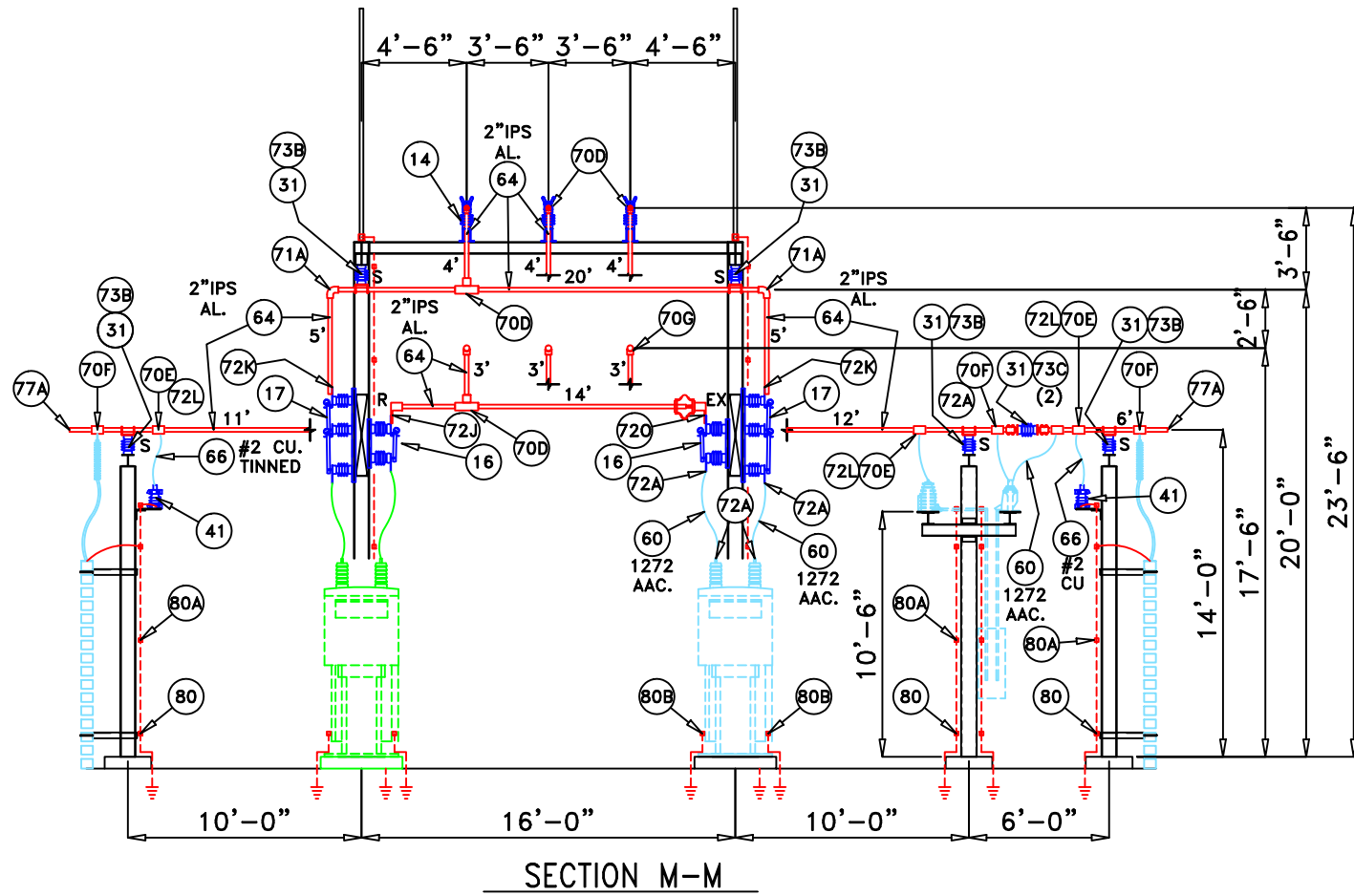
Substation Enterprises, Inc.

145 Commercial Court, P.O. Box 2010
Alabaster, AL 35007
Phone: (205)685-2755, Fax: (205)685-2753

GREENVILLE UTILITIES COMMISSION
BOVIET (115/15kV) SUBSTATION
ELECTRICAL ARRANGEMENTS - SECTION L-L

DATE: 03-19-26	DRAWN BY: LJW	CHECKED BY: LJW	DRAWING NUMBER:
SCALE: 1/4"=1'-0"	APPROVED BY:		FK-7145-EA10

REV	DATE	DESCRIPTION



Substation Enterprises, Inc.

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 Alabaster, AL 35007
 Phone: (205)685-2755, Fax: (205)685-2753

GREENVILLE UTILITIES COMMISSION

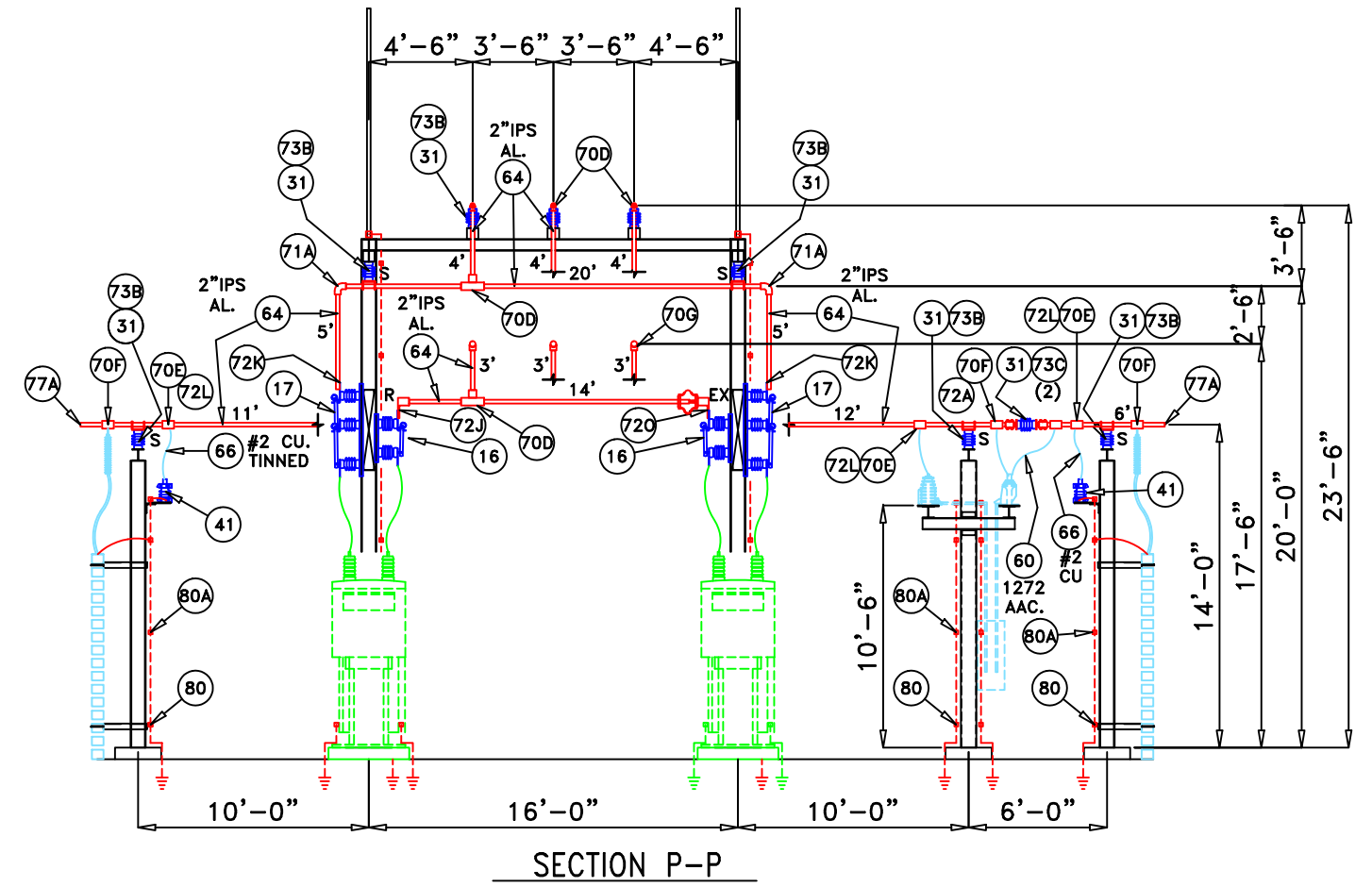
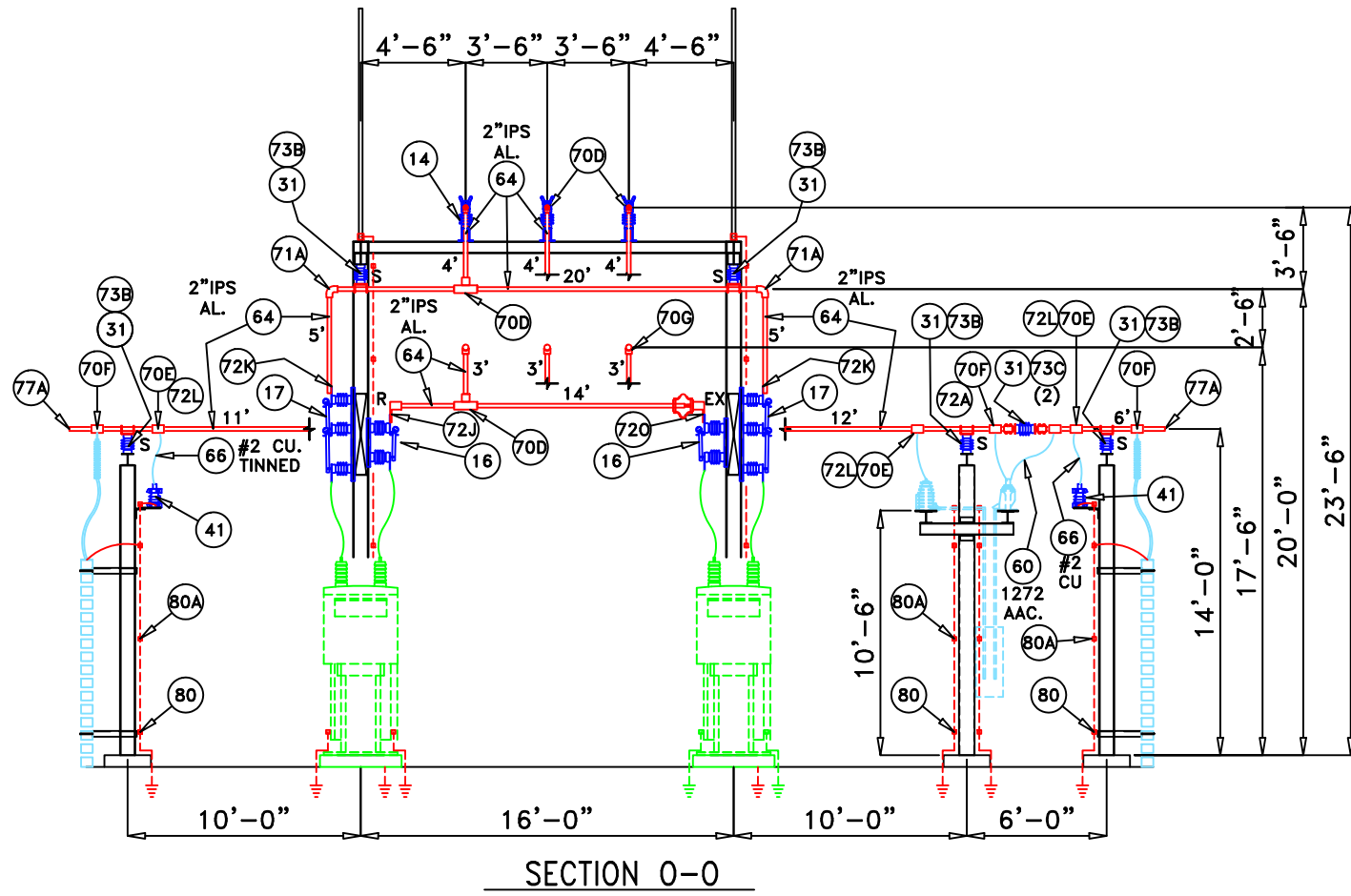
BOVIET (115/15kV) SUBSTATION

ELECTRICAL ARRANGEMENTS - SECTIONS M-M & N-N

DATE: 03-19-26 DRAWN BY: LJW CHECKED BY: LJW DRAWING NUMBER:

SCALE: 1/4"=1'-0" APPROVED BY: FK-7145-EA11

REV	DATE	DESCRIPTION



REV	DATE	DESCRIPTION

Substation Enterprises, Inc.

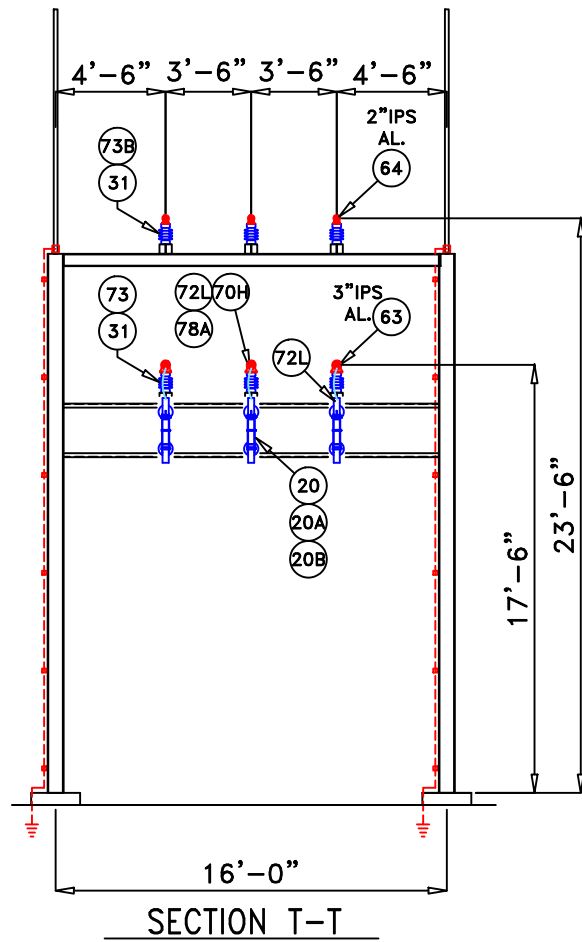
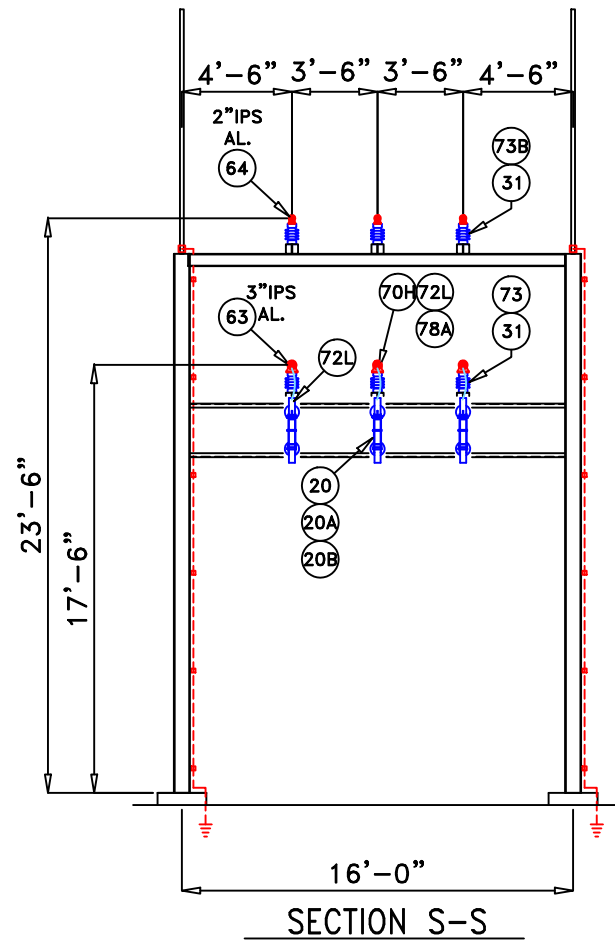
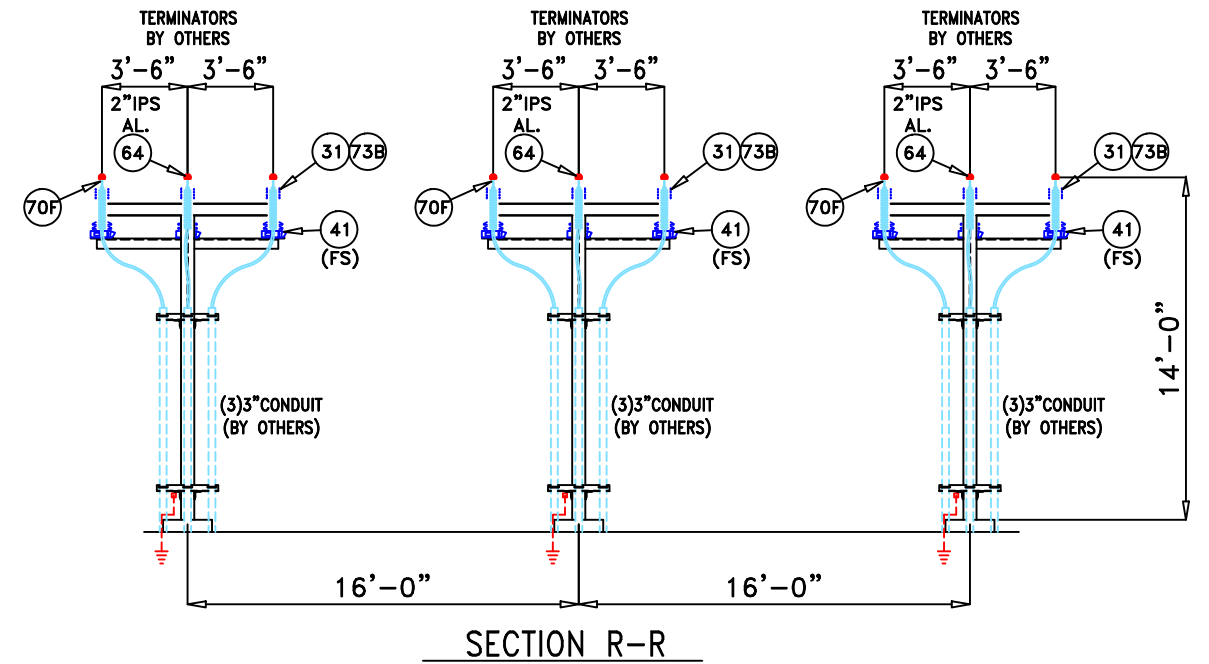
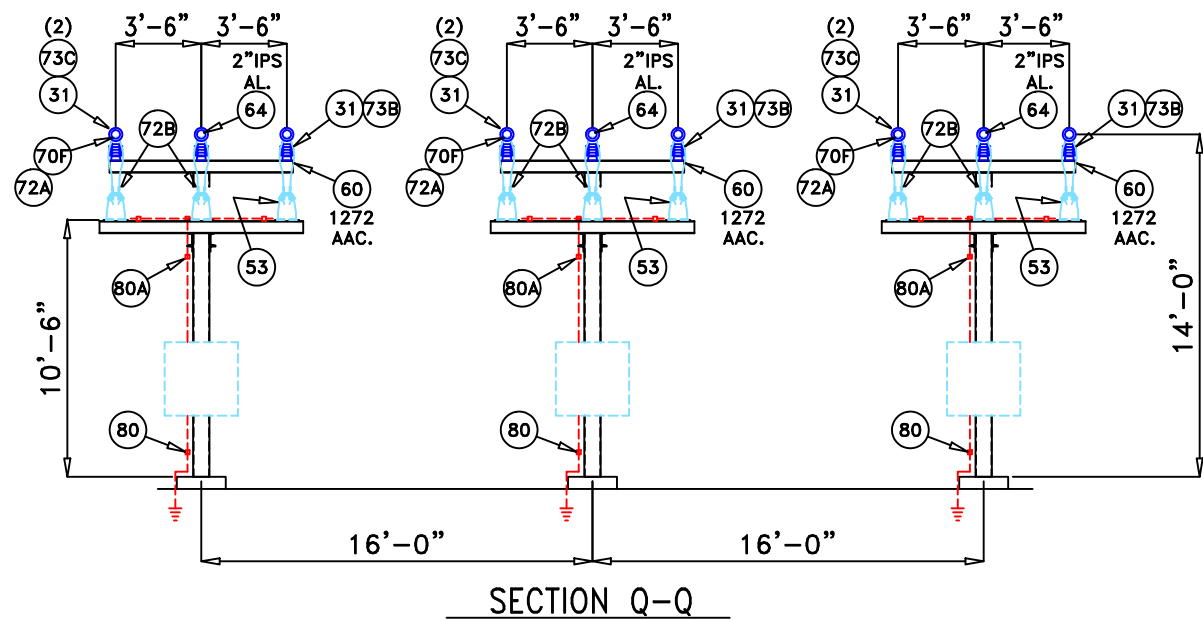
145 Commercial Court, P.O. Box 2010
Alabaster, AL 35007
Phone: (205)685-2755, Fax: (205)685-2753

GREENVILLE UTILITIES COMMISSION

BOVIET (115/15kV) SUBSTATION

ELECTRICAL ARRANGEMENTS - SECTIONS 0-0 & P-P

DATE: 03-19-26	DRAWN BY: LJW	CHECKED BY: LJW	DRAWING NUMBER:
SCALE: 1/4"=1'-0"	APPROVED BY:		FK-7145-EA12



Substation Enterprises, Inc.

145 Commercial Court, P.O. Box 2010
 Alabaster, AL 35007
 Phone: (205)685-2755, Fax: (205)685-2753

GREENVILLE UTILITIES COMMISSION

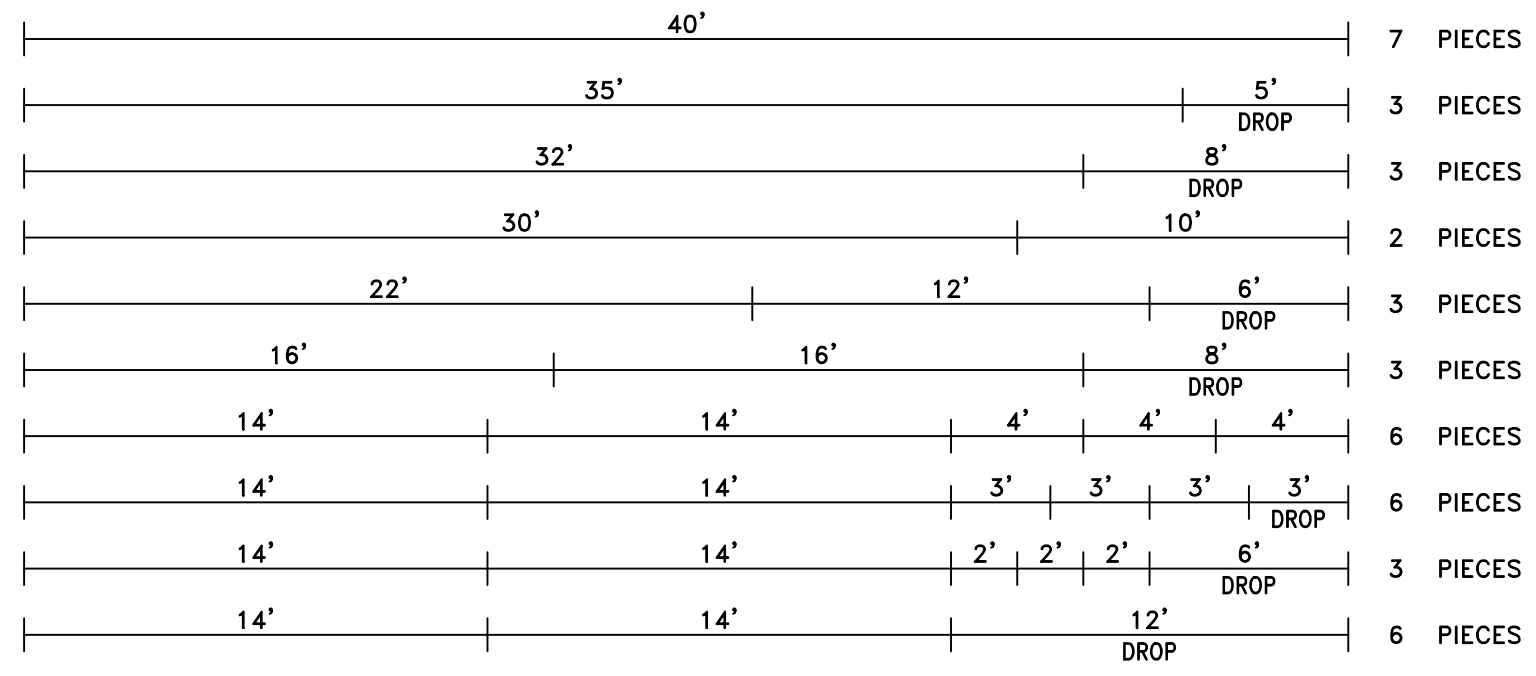
BOVIET (115/15kV) SUBSTATION

ELECTRICAL ARRANGEMENTS - SECTIONS Q-Q thru T-T

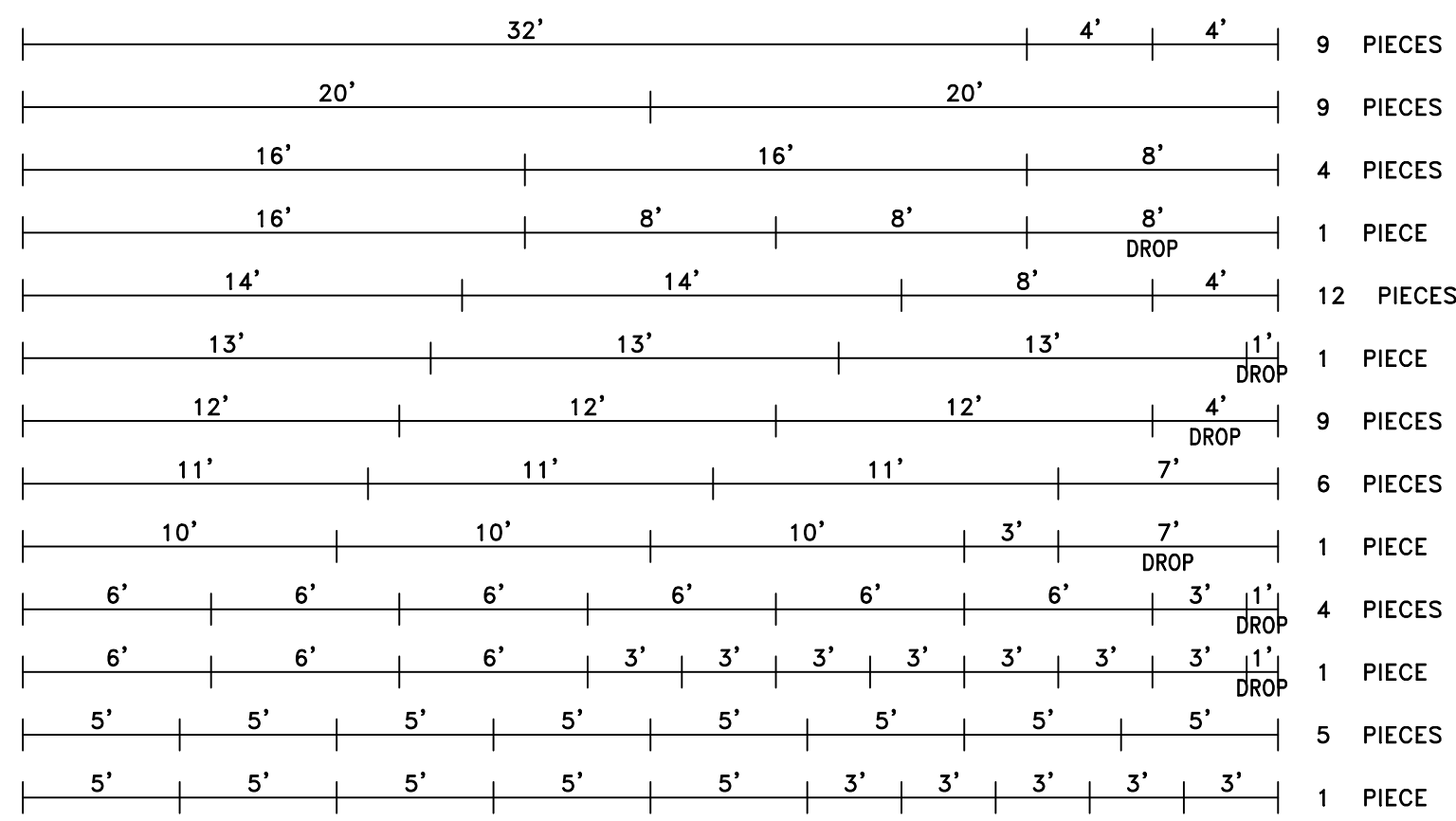
DATE: 03-20-26 DRAWN BY: LJW CHECKED BY: LJW DRAWING NUMBER:
 SCALE: 1/4"=1'-0" APPROVED BY: FK-7145-EA13

REV	DATE	DESCRIPTION

63 3" I.P.S. ALUMINUM



64 2" I.P.S. ALUMINUM



BUS CUTTING SCHEDULE
SEE NOTE #3 ON SHEET EA1

REV	DATE	DESCRIPTION

Substation Enterprises, Inc.

145 Commercial Court, P.O. Box 2010
Alabaster, AL 35007
Phone: (205)685-2755, Fax: (205)685-2753

GREENVILLE UTILITIES COMMISSION

BOVIET (115/15kV) SUBSTATION

ELECTRICAL ARRANGEMENTS - BUS CUTTING SCHEDULE

DATE: 03-20-26	DRAWN BY: LJW	CHECKED BY: LJW	DRAWING NUMBER:
SCALE: NONE	APPROVED BY:	FK-7145-EA14	

APPENDIX C – PACKAGE BOM

				BILL OF MATERIAL
SUBSTATION ENTERPRISES				
145 Commercial Court				GREENVILLE UTILITIES COMMISSION
P.O. Box 2010				BOVIET SUBSTATION (115/15kV)
Alabaster, AL 35007				
Ph. 205-685-2755				
Fax. 205-685-2753			PROJECT NO:	FK-7145
ITEM	QTY	MFG	CAT. NO.	DESCRIPTION
1	86079	MID		STEEL STRUCTURES, HOT-DIPPED GALVANIZED AFTER FABRICATION AND ASSEMBLED WITHIN LIMITATIONS OF TRUCKING
1A	2	GRESKO		H-FRAMES, WITH ANCHOR BOLTS
2A	376	UNI		ANCHOR BOLT: 1" WITH 2HHN,2FW
2B	32	UNI		ANCHOR BOLT: 3/4" X 12" WITH 2HHN,2FW
3A	90	UNI		U-BOLT, 1/2" S.S. FOR 3" IPS CONDUIT w/2HN,2LW,2FW
3B	90	UNI		U-BOLT, 1/2" GALV. FOR 1 1/2" IPS PIPE w/2HN,2LW,2FW
8	24	P&R		SWITCH OPERATOR GROUND PLATFORM, 3 X 4'
8A	48	SEF	UN-4151T	GROUND CONN
10	2	ROYAL	ACB11512STD	SWITCH: 115 KV 1200 AMP GROUP OPERATED CENTER BREAK, ALUMINUM LIVE PARTS, PROVISIONS FOR MOTOR OPERATED, STANDARD ARCING HORNS, ASSEMBLED ON TR-286 INSULATORS
10	2	PAS ATL	MO-10	MOTOR OPERATOR, 48 VDC
11	2	ROYAL	VTX11512STD	SWITCH: 115 KV 1200 AMP GROUP OPERATED VERTICAL BREAK, ALUMINUM LIVE PARTS, PROVISIONS FOR MOTOR OPERATED, STANDARD ARCING HORNS, ASSEMBLED ON TR-286 INSULATORS
11	2	PAS ATL	MO-10	MOTOR OPERATOR, 48 VDC
12	16	ROYAL	AV1520STD	SWITCH: 15 KV 2000 AMP GROUP OPERATED CENTER BREAK VEE, ALUMINUM LIVE PARTS, STANDARD ARCING HORNS, SWING HANDLE CONTROL, AND TR-205 INSULATORS

ITEM	QTY	MFG	CAT. NO.	DESCRIPTION
14	4	ROYAL	AV1512STD	SWITCH: 15 KV 1200 AMP GROUP OPERATED CENTER BREAK VEE, ALUMINUM LIVE PARTS, STANDARD ARCING HORNS, SWING HANDLE CONTROL, AND TR-205 INSULATORS
15	18	CLEAV-PRICE	LCO-C	SWITCH: 15 KV 2000 AMP HOOKSTICK DISCONNECT, WITH TINED TERM PADS, AND TR-205 INSULATORS
15	72	SEIB	GMB40058	BOLTS: 5/8" X 4" GMB W/HN,LW,WW
16	45	CLEAV-PRICE	LCO-C	SWITCH: 15 KV 1200 AMP HOOKSTICK DISCONNECT, WITH TINED TERM PADS, AND TR-205 INSULATORS
16	180	SEIB	GMB40058	BOLTS: 5/8" X 4" GMB W/HN,LW,WW
17	45	CLEAV-PRICE	LCO-CT	SWITCH: 15 KV 1200 AMP HOOKSTICK TANDEM DISCONNECT, WITH TINED TERM PADS, AND TR-205 INSULATORS
17	180	SEIB	GMB22558	BOLTS: 5/8" X 2-1/4" GMB W/HN,LW,WW
20	17	S&C	192222R2-E-Z5	FUSED DISCONNECT 15 KV 200 AMP, SMD-20
20	68	SEIB	GMB200	BOLTS: 1/2" X 2" GMB W/HN,LW,FW
20A	17	S&C	702003	FUSE UNIT, 3K
20B	17	T&B	HTDE238012	CURRENT LIMITING COMPANION FUSE
30	31	VICTOR	1720	INSULATOR: 115 KV STATION POST TR-286
30	124	SEIB	GCS10058	BOLTS: 5/8" X 1" GCS W/LW,FW
31	174	VICTOR	1751-I	INSULATOR: 15 KV STATION POST TR-205
31	696	SEIB	GCS100	BOLTS: 1/2" X 1" GCS W/LW,FW
40	6	COOPER	UHAA096076A5249A 11	LIGHTNING ARRESTER, 76 KV MCOV STATION CLASS POLYMER
40	18	SEIB	GMB250	BOLTS: 1/2" X 2-1/2" GMB W/HN,LW
41	45	COOPER	UHAA010008A1411A 11	LIGHTNING ARRESTER, 8.4 KV MCOV STATION CLASS POLYMER
41	135	SEIB	GMB275	BOLTS: 1/2" X 2-3/4" GMB W/HN,LW
50	2	BY	OWNER	STATION SERVICE TRANSFORMER

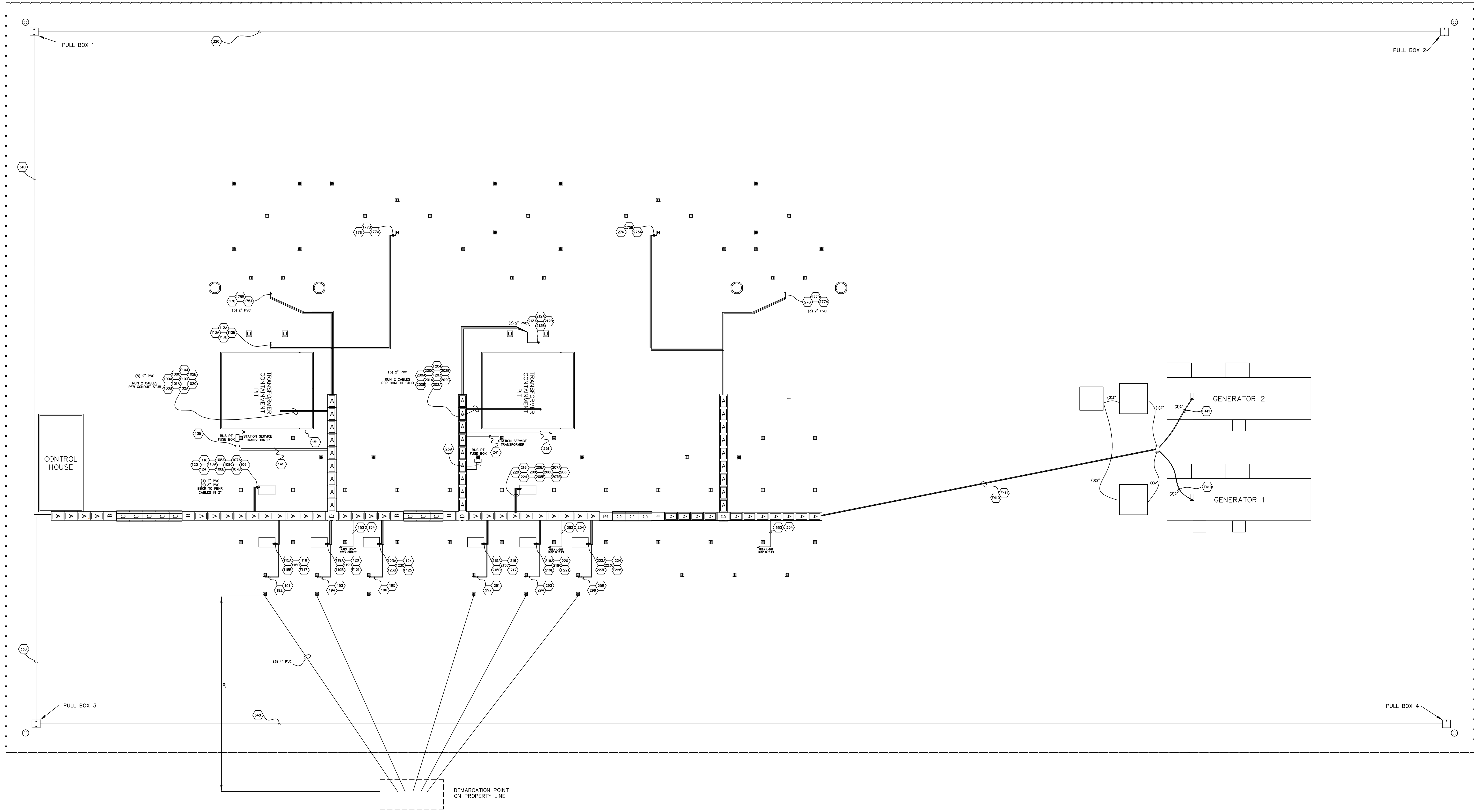
ITEM	QTY	MFG	CAT. NO.	DESCRIPTION
51	6	RITZ	122031010.395690	POTENTIAL TRANSFORMER, 7200:120 VOLT, VEF15-20
51	24	SEIB	GMB15038	BOLTS: 3/8" X 1-1/2" GMB W/HN,LW
52	27	BY	OWNER	CURRENT TRANSFORMER, 15 KV, ABB E923A427G02
52	108	SEIB	GMB15038	BOLTS: 3/8" X 1-1/2" GMB W/HN,LW
53	27	BY	OWNER	POTENTIAL TRANSFORMER, 15 KV, ABB 7525A23G05
53	108	SEIB	GMB15038	BOLTS: 3/8" X 1-1/2" GMB W/HN,LW
60		BY	OWNER	CABLE: 1272 AAC
61		BY	OWNER	CABLE: 795 AAC
62		BY	OWNER	CABLE: 336 ACSR 18/1
63	1680	WMWA		BUS: 3" IPS AL 6063-T6 SEAMLESS (42 PIECES AT 40')
64	2520	WMWA		BUS: 2" IPS AL 6063-T6 SEAMLESS (63 PIECES AT 40')
65		BY	OWNER	CABLE; 2/0 BARE COPPER
66		BY	OWNER	CABLE: #2 BARE COPPER SOLID TINNED
67		BY	OWNER	CABLE: 1/0 ACSR
68		BY	OWNER	CABLE: 7#9 ALUMOWELD STATIC WIRE
70	12	SMI	STCF-1299-D	TEE CONN COMP 1272 AAC TO 4-HOLE PAD
70	48	SEIB	SSB225	BOLTS: 1/2" X 2-1/4" SSB W/HN,BW,2FW
70A	9	PDU	SW-632	TEE CONN COMP 3" AL TO 4-HOLE PAD
70C	36	PDU	SW-175	TEE CONN COMP 3" AL MAIN & TAP
70D	63	PDU	SW-160	TEE CONN COMP 2" AL MAIN & TAP
70E	72	PDU	SW-625	TEE CONN COMP 2" AL TO 2-HOLE PAD
70F	99	PDU	SW-626	TEE CONN COMP 2" AL TO 4-HOLE PAD

ITEM	QTY	MFG	CAT. NO.	DESCRIPTION
70G	18	PDU	SW-173	TEE CONN COMP 3" AL TO 2" AL TAP
70H	18	PDU	SW-631	TEE CONN COMP 3" AL TO 2-HOLE PAD
70J	6	SMI	STCF-684-C	TEE CONN COMP 336 18/1 ACSR TO 4-HOLE PAD
70J	24	SEIB	SSB225	BOLTS: 1/2" X 2-1/4" SSB W/HN,BW,2FW
70K	9	PDU	SW-355-15	TEE CONN COMP 3" AL TO (2) 2" AL TAPS AT 15 DEGREES
70L	18	PDU	SW-264-15	TEE CONN COMP 3" AL TO 2" AL TAPS AT 15 DEGREES
71	18	PDU	SW-656-90	COUPLER 90 DEG COMP 3" AL
71A	54	PDU	SW-654-90	COUPLER 90 DEG COMP 2" AL
71B	5	PDU	SW-554	COUPLER STRAIGHT COMP 3" AL
71C	9	PDU	SW-538	COUPLER STRAIGHT COMP 2" AL
72	36	SMI	SLS-684-C	TERM CONN COMP 336 18/1 ACSR TO 4-HOLE PAD, SHORT BARRELL
72	144	SEIB	SSB225	BOLTS: 1/2" X 2-1/4" SSB W/HN,BW,2FW
72A	162	AE	CCLS1300D	TERM CONN COMP 1272 AAC TO 4-HOLE PAD, SHORT BARREL
72A	648	SEIB	SSB225	BOLTS: 1/2" X 2-1/4" SSB W/HN,BW,2FW
72B	54	SMI	SLS-1299-B2	TERM CONN COMP 1272 AAC TO 2-HOLE PAD, SHORT BARREL
72B	108	SEIB	SSB225	BOLTS: 1/2" X 2-1/4" SSB W/HN,BW,2FW
72C	33	PDU	SW-123-CF	TERM CONN COMP 3" AL TO 4-HOLE PAD, CENTERFORMED
72C	132	SEIB	SSB225	BOLTS: 1/2" X 2-1/4" SSB W/HN,BW,2FW
72D	36	SMI	SL2-1036-C	TERM CONN COMP (2) 795 AAC TO 4-HOLE PAD
72D	144	SEIB	SSB225	BOLTS: 1/2" X 2-1/4" SSB W/HN,BW,2FW
72E	36	PDU	SW-1140V	TERM CONN COMP EXPANSION 3" AL TO 4-HOLE PAD
72E	144	SEIB	SSB225	BOLTS: 1/2" X 2-1/4" SSB W/HN,BW,2FW
72F	36	PDU	SW-124-CF	TERM CONN COMP 3" AL TO 4" WIDE 4-HOLE PAD, CENTERFORMED

ITEM	QTY	MFG	CAT. NO.	DESCRIPTION
72F	144	SEIB	SSB225	BOLTS: 1/2" X 2-1/4" SSB W/HN,BW,2FW
72G	18	PDU	SW-124-90	TERM CONN COMP 3" AL TO 4" WIDE 4-HOLE PAD 90 DEG
72G	72	SEIB	SSB225	BOLTS: 1/2" X 2-1/4" SSB W/HN,BW,2FW
72H	9	PDU	SW-1140-90	TERM CONN COMP EXPANSION 3" AL TO 4-HOLE PAD, 90 DEG
72H	36	SEIB	SSB225	BOLTS: 1/2" X 2-1/4" SSB W/HN,BW,2FW
72J	63	PDU	SW-117-90	TERM CONN COMP 2" AL TO 4-HOLE PAD 90 DEG
72J	252	SEIB	SSB225	BOLTS: 1/2" X 2-1/4" SSB W/HN,BW,2FW
72K	45	PDU	SW-117	TERM CONN COMP 2" AL TO 4-HOLE PAD
72K	180	SEIB	SSB175	BOLTS: 1/2" X 1-3/4" SSB W/HN,BW,2FW
72L	96	BURNDY	YA3C2N	TERM CONN COMP #2 CU TO 2-HOLE PAD
72L	192	SEIB	SSB200	BOLTS: 1/2" X 2" SSB W/HN,BW,2FW
72M	15	PDU	SW-117-CF	TERM CONN COMP 2" AL TO 4-HOLE PAD, CENTERFORMED
72M	60	SEIB	SSB200	BOLTS: 1/2" X 2" SSB W/HN,BW,2FW
72N	9	PDU	SW-1134V	TERM CONN COMP EXPANSION 2" AL TO 4-HOLE PAD
72N	36	SEIB	SSB200	BOLTS: 1/2" X 2" SSB W/HN,BW,2FW
72O	18	PDU	SW-1133-90	TERM CONN COMP EXPANSION 2" AL TO 4-HOLE PAD, 90 DEG
72O	72	SEIB	SSB200	BOLTS: 1/2" X 2" SSB W/HN,BW,2FW
73	31	SEF	ASTI-62-5	BUS SUPPORT 3" AL TO 5" B.C.,
73A	6	SEF	ASTI-62-3	BUS SUPPORT 3" AL TO 3" B.C., SLIPPED
73B	141	SEF	ASTI-58-3	BUS SUPPORT 2" AL TO 3" B.C., SLIPPED
73C	54	SEF	AVTI-58-3	BUS SUPPORT 2" AL TO 3" B.C., VERTICAL
76	12	SEF	ASDE-155-SF	STRAIN CLAMP 1272 AAC
76	12	VICTOR	T111-CE-1532-3300-AA	SUSPENSION INSULATORS, POLYMER, 115 KV
76	12	AE	HYCE1512	Y-CLEVIS EYE EXTENSION
76	12	LINDSEY	3089	Y-BALL CLEVIS (AE- YBC30)


ITEM	QTY	MFG	CAT. NO.	DESCRIPTION
76A	8	LH	QSC552N	STRAIN CLAMP 7#9 ALUMOWELD
76A	8	SEI		EYE BOLT, 5/8 X 8"
77	24	SEF	DP-62-AL	CORONA END CAP 3" AL
77A	51	SEF	DP-58-AL	CORONA END CAP 2" AL
78	24	PDU	SW-1280	GROUND STUD FOR 3" AL
78A	63	SMI	STP-B2	TRANSITION PLATES
79	6	SEF	ASPC-29-8-4B	CABLE SPACER 795 AAC TO 4-HOLE PAD
79	6	SMI	1AC1	ANGLE CLIP, 3-1/4" UABC
79	48	SEIB	SSB200	BOLTS: 1/2" X 2" SSB W/HN,BW,2FW
79A	18	SEF	ASPC-29-8	CABLE SPACER 795 AAC
80	125	SEF	GTC2-14-1/2	GROUND CONN TWO PIECE DOUBLE GROOVE 1/0--4/0 CU TO FLAT
80A	300	SEF	GTC-14-1/2	GROUND CONN TWO PIECE SINGLE GROOVE 1/0--4/0 CU TO FLAT
80B	28	SEF	UMX-4151-2N	GROUND CONN TERMINAL 2/0--4/0 CU TO 2-HOLE PAD
80B	56	SEIB	SSB175	BOLTS: 1/2" X 1-3/4" SSB W/HN,BW,2FW
80C	8	SEF	FNCT2-20-4A-SS	GROUND CONN TERMINAL (2) 2/0--500 CU TO 4-HOLE PAD
80E	34	SEF	1-OC-2651	GROUND CONN 1-1/2" IPS PIPE TO 2/0 CU
81D	24	BURNDY	BD24G203	BRAIDED SHUNT
82		BY	OWNER	GROUND RODS
83		BY	OWNER	BELOW GRADE CADWELD MOLDS AND WELD METALS

APPENDIX D – CABLE & CONDUIT DRAWING

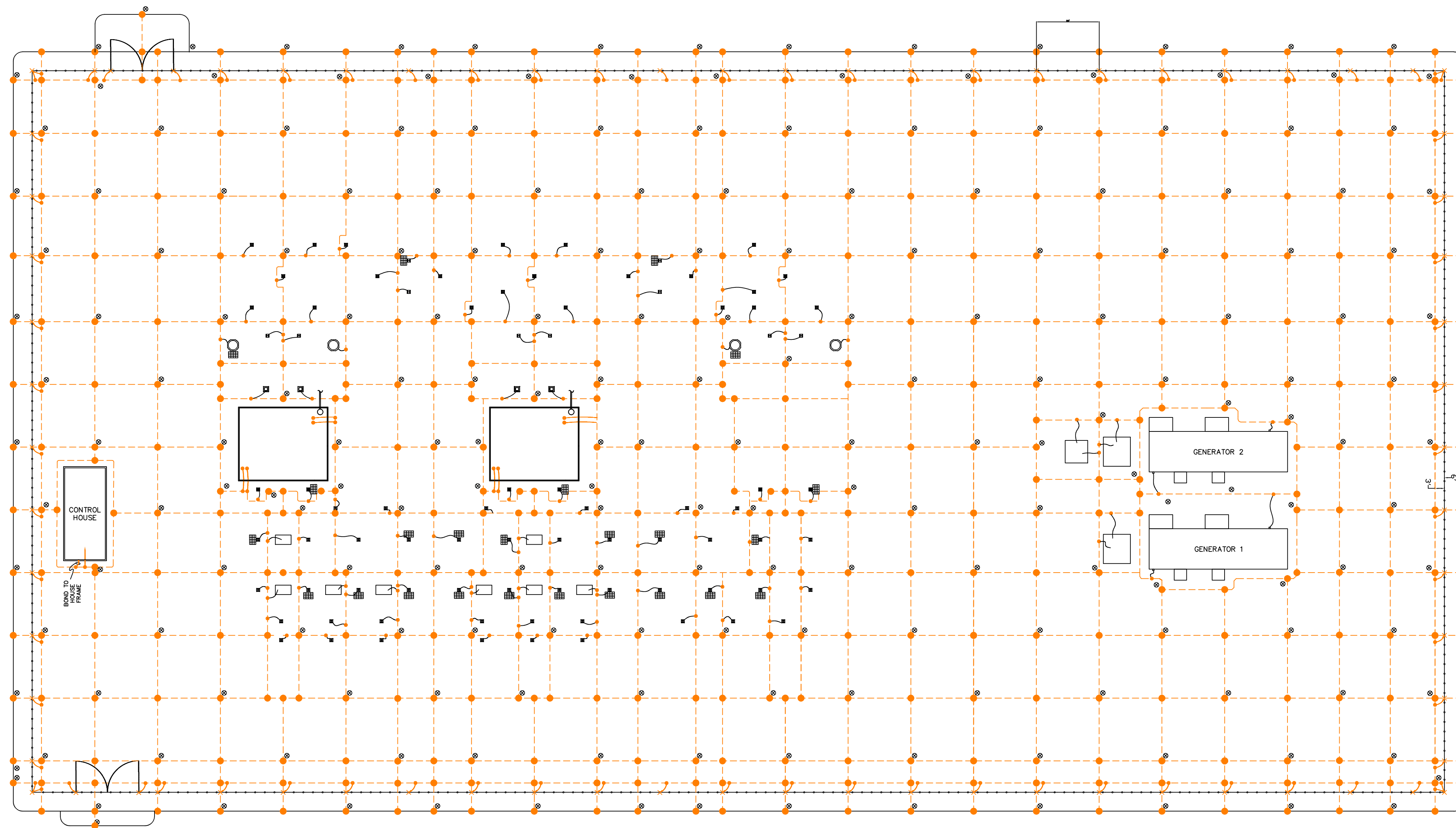


NO.	1A
REVISIONS	
BOVIET SUBSTATION PRELIMINARY DESIGN RMC 3/30/2026	

PRELIMINARY

 GREENVILLE UTILITIES Greenville, North Carolina		
BOVIET SUBSTATION 115 TO 15 kV CONDUIT PLAN		
DWN.	DATE	DWG. NO.
CKD.	APPD.	
SCALE: NONE		
BOVT_XX_SITE_CP_R1		

APPENDIX E – GROUND GRID DRAWING



LEGEND:

- - - NO. 4/0 AWG BARE STRANDED S.D. COPPER
- NO. 2/0 AWG BARE STRANDED S.D. COPPER
- EXOTHERMIC WELD
- — — PROPOSED FENCE
- GROUNDING PLATFORM
- ⊗ 5/8" DIA. X 10' COPPERWELD GROUND ROD
- ⊠ FOUNDATIONS
- ⊗ FENCE POST GROUNDING CLAMP

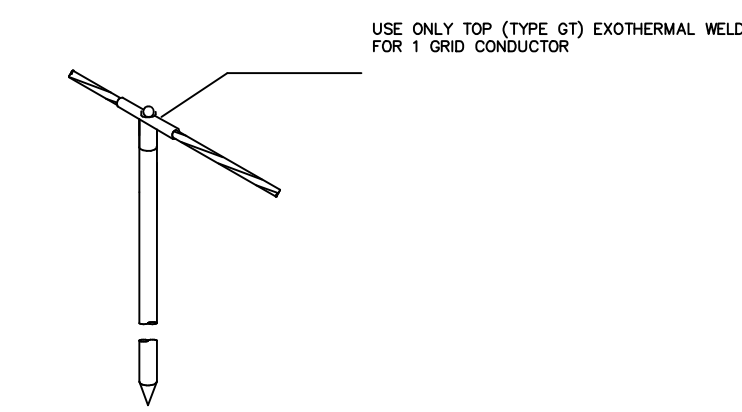
ESTIMATED MATERIALS

ALL COUNTS OF MATERIALS BELOW ARE APPROXIMATE. ACTUAL LENGTHS MAY BE DIFFERENT THAN SPECIFIED BELOW.

GROUND RODS = 213
 EXOTHERMIC WELDED CONNECTIONS = 696
 4/0 WIRE TOTAL = 13,600ft.
 2/0 WIRE TOTAL = 3,750ft.
 #2 WIRE TOTAL = 1,200ft.

FENCE POST CLAMPS

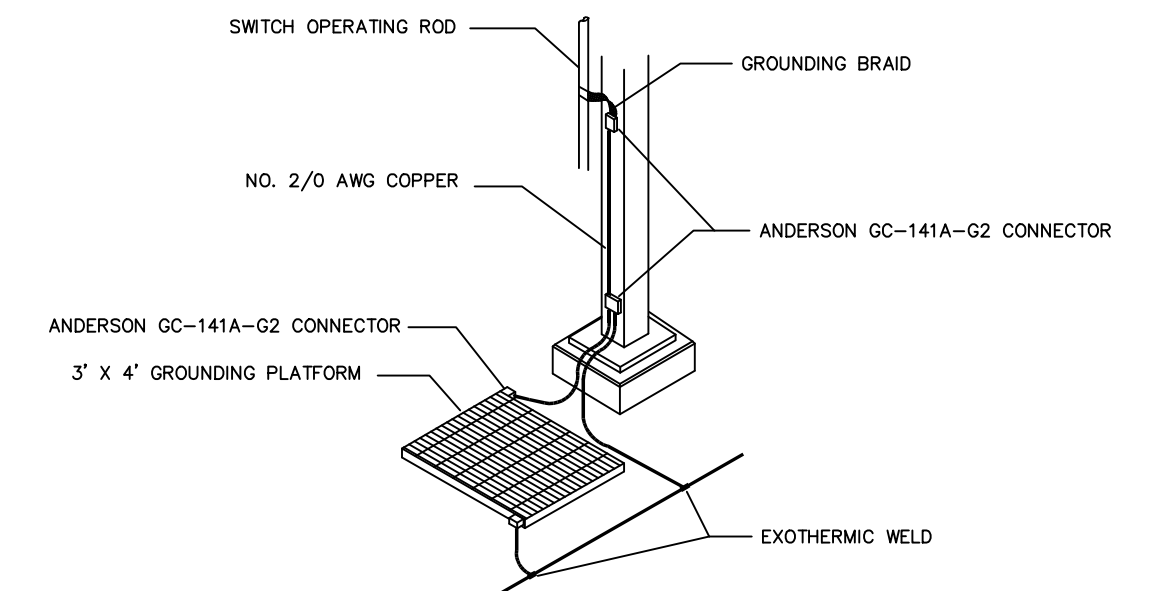
TBD - 8 1/2" GATE POST
 TBD - 4" GATE POST
 TBD - 3" CORNER POST
 TBD - 2 1/2" GATE FRAME POST
 TBD - 2" LINE POST



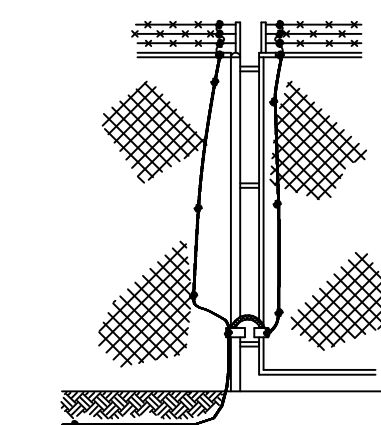
GROUND GRID TO GROUND ROD
NO SCALE

NOTES:

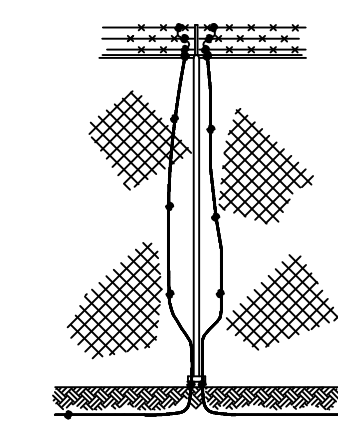
1. ALL APPARATUS (TRANSFORMERS, BREAKERS, SWITCHES, ETC.) SHALL HAVE TWO SEPARATE CONNECTIONS TO GROUNDING GRID.
2. 4/0 COPPER WIRE IS USED FROM THE TRANSFORMER NEUTRAL.
3. EACH TRANSFORMER TO GRID CONNECTION SHALL CONSIST OF A DUAL 4/0 CONDUCTOR ROUTED THROUGH A PVC CONDUIT.
4. ALL GROUNDING WIRE FOR BONDS ON ENERGIZED STRUCTURES AND EQUIPMENT SHALL BE 2/0 COPPER UNLESS OTHERWISE NOTED.
5. CONNECT ONE GROUNDING PAD ON THE GROUNDING PLATFORM TO THE COLUMN STEEL AND TO THE SWITCH HANDLE GROUND BRAID WITH ONE CONTINUOUS 4/0 COPPER CONDUCTOR.
6. WIRE FOR FENCE GROUNDING SHALL BE #2 TINNED COPPER.
7. ALL OTHER GROUNDING SHALL BE 4/0 COPPER WIRE.
8. ALL GROUNDING GRID CONDUCTORS SHALL BE 18" MIN. BELOW SUBGRADE. (BELOW FINAL GRADE)
9. INSTALL GRID WITH A 3 FOOT LONG CORNER BEVEL AS SHOWN. DO NOT SQUARE OFF GRID CORNERS AT THESE LOCATIONS
10. PERIMETER BELOW GRADE GROUND CONDUCTOR TO BE LOCATED 3' INSIDE FENCE LINE.
11. CONNECT ALL GROUND RODS TO THE GRID.
12. ALL GROUNDING GRID CONNECTIONS SHALL BE EXOTHERMIC.



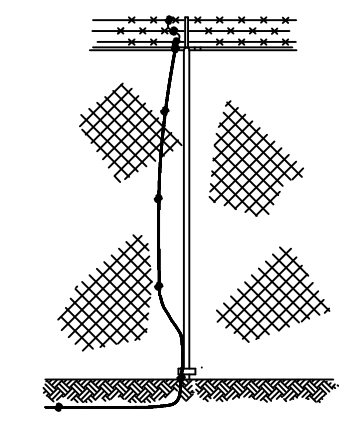
SWITCH OPERATING HANDLE GROUNDING
NO SCALE



TYPICAL GATE POST GROUNDING DETAIL
NO SCALE



TYPICAL CORNER POST GROUNDING DETAIL
NO SCALE



TYPICAL LINE POST GROUNDING DETAIL
NO SCALE

NO.	1A
REVISIONS	BOVIET SUBSTATION PRELIMINARY DESIGN RMC 3/31/2026

PRELIMINARY

GREENVILLE UTILITIES Greenville, North Carolina		
BOVIET SUBSTATION 115 TO 15 kV SITE GROUND GRID LAYOUT DIAGRAM		
DWN.	DATE	DWG. NO.
CKD.	APPD.	
SCALE: NONE		

APPENDIX F – CABLE TRENCH BOM

BOVIET SUBSTATION CABLE TRENCH BILL OF MATERIALS

Line	Quantity	Concast Part Number	Description
1	66	8030	Pedestrian Channel 48"
2	6	8030RT	PED To HT3 LT Transition 48"
3	150	8031	PED Fibercrete Cover 24"
4	3	8032 (30x30)	PED Channel Universal 48"
5	8	8033	Pedestrian End Plate
6	11	8030HT3	Heavy Traffic Channel 48"
7	11	8031HT3	H-20 Concrete Cover 48"
8	250	8000	Cable Clip - STD PED Channel
9	250	8002-004	Cable Clip - STD PED Channel
10	50	8002R	Cable Clip - Traffic Rated
11	50	8002R-004	Cable Clip - Traffic Rated