ADDENDUM NO. 4

TO: PLANS AND SPECIFICATIONS FOR STATE OF MISSOURI

New Campground
Missouri State Fairgrounds
Project No. F2307-01

Bid Opening Date: 1:30 PM, Thursday, October 30, (Not Changed)

Bidders are hereby informed that the construction Plans and/or Specifications are modified as follows:

SPECIFICATION CHANGES:

1. Section 260000
    a. REPLACE in its entirety.

DRAWING CHANGES:

1. Sheet C101
    a. REPLACE Sheet in its entirety
2. Sheet C102
    a. REPLACE Sheet in its entirety
3. Sheet C107
    a. REPLACE Sheet in its entirety
4. Sheet C201
    a. REPLACE Sheet in its entirety
5. Sheet C202
    a. REPLACE Sheet in its entirety
6. Sheet C206
    a. REPLACE Sheet in its entirety
7. Sheet ME1
    a. REPLACE Sheet in its entirety
8. Sheet E1
    a. REPLACE Sheet in its entirety
9. Sheet E3
    a. REPLACE Sheet in its entirety
10. Sheet E4
    a. REPLACE Sheet in its entirety

11. Sheet E5
    a. REPLACE Sheet in its entirety

12. Sheet E6
    a. REPLACE Sheet in its entirety

13. Sheet E7
    a. REPLACE Sheet in its entirety

14. Sheet E8
    a. REPLACE Sheet in its entirety

GENERAL COMMENTS:

1. None

ATTACHEMENTS:

1. Section 260000
2. Sheet C101
3. Sheet C102
4. Sheet C107
5. Sheet C201
6. Sheet C202
7. Sheet C206
8. Sheet ME1
9. Sheet E1
10. Sheet E3
11. Sheet E4
12. Sheet E5
13. Sheet E6
14. Sheet E7
15. Sheet E8

October 23, 2025

END OF ADDENDUM NO. 4

DIVISION 26
SECTION 260000
ELECTRICAL

PART I - GENERAL

1.01 Related Documents

A. Provisions of General Requirements, Division 1, are a part of this section.

1.02 This work shall include, but not necessarily be limited to furnishing and installing:

A. Wiring

B. Conductors and Conduit

C. Panels and Fused Disconnects.

D. Wiring Devices, Light Fixtures, Lamps, Ballasts, Fuses.

E. Three-Phase Transformers

F. Wiring for Equipment Furnish by Others.

G. Grounding

H. Drawings of Record

I. Prior to bidding, all Contractors shall visit the site and become familiar with all existing conditions, which will affect construction procedures and scope of work required as part of this Section.

1.03 Codes and Standards

A. National Fire Protection Association - National Fire Code.

B. National Electrical Code

C. Building Officials and Code Administrators International, Inc.

D. Underwriter's Laboratories

E. National Electric Safety Code

1.04 Shop Drawings shall be submitted to the Architect for approval. The Contractor shall be responsible for quantities and dimensions. The Contractor shall check all shop drawings prior to submission to the Architect.

1.05 The Contractor shall follow the drawings in the layout of his work and shall consult general construction drawings, mechanical drawings and all other drawings for this project to determine all conditions affecting the electrical work. The drawings are not to be scaled and the Contractor shall verify spaces in which the electrical work is to be installed.

1.06 The Contractor shall take measurements and make layouts as required for the proper installation of the work and coordination with all other work on the project.

1.07 Related Work

A. Mechanical Equipment

B. Painting by Painting Contractor

PART II - PRODUCTS

2.01 Wire and Cable

A. Low voltage wire and cable

1. All wire and cable installed under this contract shall be Southwire, Anaconda, Triangle or approved equal, complete with non-fading type color coding system as set forth by National Electric Code. General interior wiring shall have 600-volt insulation, THHN. Wiring in wet and damp locations shall be THWN.
2. Wire shall be soft annealed copper conforming to current requirements of National Electrical Code, and shall be Brown & Sharp (B&S), or American Wire Gauge (AWG) gauges unless specifically indicated on the Drawings. NO ALUMINUM WIRE SHALL BE USED. Wire smaller than #12 gauge shall not be used.

2.02 Connectors

A. Shall be "Scotch Lok" for up to #8 wire and Weaver, or approved equal, split bolt or set screw type connectors for #6 wire and larger.

2.03 Conduit

A. EMT electrical metallic tubing, Republic "Electriunite", National, Triangle.

B. Rigid galvanized conduit, Republic "Galvanite", National, Triangle, with threaded fittings.

C. Flexible metal conduit, "Greenfield".

D. Carlon, or approved equal, Schedule 40 non-metallic conduit and fittings.

E. Metal Clad (Type MC) cable and fittings manufactured by AFC, or approved equal.

2.04 Outlet, Junction and Pull Boxes

A. Outlet boxes shall be galvanized or sherardized, one-piece pressed steel of sectional type or non metallic (Carlon), of size most suitable for the outlet used. Boxes shall be equipped with plaster rings, extension rings, bar hangers and fixture studs as may be required. Junction or pull boxes, either flush or surface mounted, as indicated or required, shall be of adequate sizes to accommodate the conductors installed therein. Junction and pull boxes shall comply with the National Electrical Code as to construction.

2.05 Lighting and Power Panelboards and Fuses

A. Power panels and lighting panels shall be circuit breaker type, Siemens, Square D, GE, or equal. See Drawings.

B. Fuses shall be Bussmann as follows or as noted on Drawings. Fuses 60 amps and above shall be NEMA class L Hi-cap "KRP-C" fuses with time delay. Fuses feeding circuit breaker panels shall be Limitron fuses, "KTN" for 250 volts. Fuses on power feeders shall be Fusetron Dual-Element fuses in the 0–60-amp sizes, "FRN" for 250 volts, and Low-Peak Dual Element fuses in the 70-to-600-amp sizes, "LPN" for 250 volts.

C. Panels shall be for connection to 4-wire, 120/208 volt, grounded neutral, 3 phase power.

D. Cabinets shall conform to NEMA standards, and be constructed of code gauge galvanized sheet steel with single door flush or surface trim as indicated on the Drawings.

E. Cabinet trim shall have gray lacquer finish.

F. Panels shall have aluminum bus bars, ground bars, and neutrals.

2.06 Wall Switches

A. Shall be Leviton #1120 series, or approved equal, 20-amp, 120/277-volt, grounding clip. Single pole or 3-way as indicated in the drawings. Color as selected by Architect.

2.07 Duplex Convenience Outlets

A. Shall be Leviton #5362, or approved equal, 20-amp grounding type. Ground fault receptacles shall be Leviton #7899-LW Series. Side wire only.

2.08 Special Outlets

A. Shall be by Leviton as required and as shown on drawings, complete with wall plates, same color as duplex receptacles.

2.09 Switch and Receptacle Plates

A. Shall be Leviton #80700 series to match switch, receptacle, or special outlet as required or approved equal

2.10 Fused Disconnects

A. Shall be Square D, general duty, single throw, externally operated safety switches, fuses and of poles, volts and ampere ratings for the load shown in NEMA-1 or NEMA-3R enclosures, as required.

2.11 Light Fixtures

A. All light fixtures shall be as scheduled on drawings or approved equal. To be considered as equal, fixtures must have equal features, components, quality of construction, and photometrics.

2.12 Three-Phase Transformers

A. Description:
   1. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
   2. Comply with IEEE C57.12.26.

B. Compartment Construction:
   1. Single-Compartment Construction: Clamshell style, with provision for padlocking, hinged cover, and single-point latching.

2. Double-Compartment Construction: Individual compartments for high- and low-voltage sections, formed by steel isolating barriers that extend full height and depth of compartments, with hinged, lift-off doors and three-point latching, with a stop in the open position and provision for padlocking.

C. Primary Fusing: Designed and rated to provide thermal protection of transformer by sensing overcurrent and high liquid temperature.
1. 150-kV BIL current-limiting fuses, conforming to requirements of IEEE C37.47.
2. Interrupting Rating: 50,000 rms A symmetrical at system voltage.
3. Fuse Assembly: Bayonet-type, liquid-immersed, expulsion fuses in series with liquid-immersed, partial-range, current-limiting fuses. Bayonet fuse shall sense both high currents and high oil temperature to provide thermal protection to the transformer. Connect current-limiting fuses ahead of radial-feed load-break switch.
4. Provide bayonet fuse assembly with an oil retention valve and an external drip shield inside the housing to eliminate or minimize oil spills. Valve shall close when fuse holder is removed and an external drip shield is installed.
5. Provide a conspicuously displayed warning adjacent to bayonet fuse(s), cautioning against removing or inserting fuses unless transformer has been de-energized and tank pressure has been released.

D. High-Voltage Section: Dead-front design.
1. To connect primary cable, use separable insulated connectors. Bushings shall be one-piece units, with ampere and BIL ratings the same as connectors.
2. Bushing inserts and feed-through inserts:
   a. Conform to the requirements of IEEE 386.
   b. Rated at 200 A, with voltage class matching connectors. Provide a parking stand near each bushing well. Parking stands shall be equipped with insulated standoff bushings for parking of energized load-break elbow connectors on parking stands.
   c. Provide insulated protective caps for insulating and sealing out moisture from unused bushing inserts and insulated standoff bushings.
3. Bushing wells configured for loop-feed application.
4. Access to liquid-immersed fuses.
5. Dead-front surge arresters.
6. Tap-changer operator.
7. Load-Break Switch:
   a. Radial-feed, liquid-immersed type with voltage class and BIL matching that of separable connectors, with a continuous current

rating and load-break rating of 200 amperes, and a make-and-latch rating of 12 kA rms symmetrical.

b. Loop-feed sectionalizing switches, using three two-position, liquid-immersed-type switches for closed transition loop-feed and sectionalizing operation. Voltage class and BIL shall match that of separable connectors, with a continuous current rating and load-break rating of 200 amperes, and a make-and-latch rating of 12 kA rms symmetrical. Switch operation shall be as follows:

i. Position I: Line A connected to line B and both lines connected to the transformer.
ii. Position II: Transformer connected to line A only.
iii. Position III: Transformer connected to line B only.
iv. Position IV: Transformer disconnected and line A not connected to line B.
v. Position V: Transformer disconnected and line A connected to line B.

8. Ground pad.

E. Low-Voltage Section:

1. Bushings with spade terminals drilled for terminating the number of conductors indicated on the Drawings, and the lugs.

F. Capacities and Characteristics:

1. Power Rating (kVA): As shown on drawings.
2. Voltage Ratings: 15 kV - 208Y/120.
3. Taps: Comply with IEEE C57.12.26 requirements.
4. Transformer BIL (kV): Comply with IEEE C57.12.26 requirements.
5. Minimum Tested Impedance (Percent at 85 deg C): 4.03.

G. Transformer Accessories:

1. Drain and filter connection.
2. Filling and top filter press connections.
3. Pressure-vacuum gauge.
4. Dial-type analog thermometer with alarm contacts.
5. Magnetic liquid level indicator with high and low alarm contacts.
6. Automatically resetting pressure-relief device. Device flow shall be as recommended by manufacturer.
7. Stainless-steel ground connection pads.
8. Machine-engraved nameplate, made of anodized aluminum or stainless steel.
9. Sudden pressure relay for remote alarm or trip when internal transformer pressure rises at field-set rate. Provide with seal-in delay.

2.13 Substitutions

A. All substitutions must be pre-approved by the architect prior to bidding. See Division 1 for substitution process.

PART III - EXECUTION

3.01 Manufacturer's Written Installation Instructions

A. All materials shall be installed as recommended by manufacturer. Nothing in these specifications shall be construed to vary from manufacturer's written installed instructions without written approval from manufacturer.

B. It shall be the responsibility of this Contractor to coordinate with the other trades for clearance, elevations, etc., before installation of any material. Where conflicts exist, the Architect shall be notified before installing material. Changes required in work specified in this section caused by neglect to do so shall be made at no cost to the Owner or Architect.

C. The Contractor shall verify the voltage phase full-load current and exact location of all electrical equipment before rough-in.

D. Arrange with Contractors of other trades for installation of built-in items, blocking, and additional necessary supports.

3.02 Wire and Cable Installation

A. Unless specifically indicated on Drawings, all wire and cable installed in ordinarily dry locations above base slab shall be Type THHN. Unless specifically indicated on Drawings, all wire installed below grade in slab or grade or in areas subjected to possible condensation, moisture, or weather shall be Type THWN.

B. All wiring shall be in conduit, or shall be type MC cable. See "Conduit" below.

C. All wiring shall be continuous between boxes with out any splices in conduit or frame spaces.

D. All 120-volt 20-amp lighting and receptacle circuits requiring more than 100' of conductor (one way) shall be #10 conductors.

3.03 Conduit Installation

A. Conduit for general use concealed inside building as shown on Drawings shall be EMT or type MC cable.

B. All conduit for installation exposed or exterior to structure, or within concrete construction or as shown on Drawings, shall be rigid galvanized or Schedule 40 PVC as approved by Architect.

C. Conduit smaller than 1/2" shall not be used. Flexible conduit (Greenfield) may be used in short lengths (maximum 6') for fixture connections, motor connections and other special connections as approved by Architect.

D. Conduit shall be concealed in finished spaces, except where noted otherwise on Drawings. All exposed conduit shall be as approved by Architect and shall be installed in a neat and workmanlike manner with conduit runs parallel to building lines.

E. Conduit shall run continuous between outlets, boxes and cabinet, and each conduit run shall have not more than three 90-degree bends between termination points. Conduit shall bend without crimping or flattening to provide a smooth and even turn with bend radius as great as possible, never shorter than that used in corresponding trade elbow. Conduit bends in which interior enamel has flaked will not be permitted.

F. Conduit shall be supported individually by use of bolted metal clamp type hangers at intervals not exceeding 8'-0' with each hanger rigidly attached to building construction. Vertical conduit supports, where required, shall be clamps attached to structure in an approved manner.

G. Conduit ends shall be reamed and all burrs removed prior to installation, and all conduit shall be kept clean and dry during construction by use of caps and plug. Junction or pull boxes shall be installed as required to facilitate ease of wire pulling. Insulating bushings shall be provided on all conduits at points where entering metal enclosures to prevent abrasion and damage to insulation of wire and cable.

H. Type MC cable installed in ceiling plenums shall be supported to prevent contact with T-bar ceilings.

3.04 Outlet, Junction and Pull Box Installation

A. The size of each box shall be determined by the number of wires and conduits, or size of conduit entering the box, but shall be not less than 3 1/4" octagon or 4" square with ring.

B. All single to four-gang outlet boxes required in unplastered masonry walls shall be 3½" deep solid type with square corners. All plaster and masonry rings or boxes shall be flush or not more than ¼" behind the finished surfaces.

C. All boxes shall be securely anchored to masonry or frame construction.

3.05 Locations of Outlets and Equipment

A. The Contractor shall coordinate his work with that of other trades in order to provide a proper installation of electrical equipment in keeping with the intent of the Drawings and Specifications. Minor changes relative to the location of electrical equipment may be made by Owner's Representative to comply with structural and building requirements as determined in the course of construction.

3.06 Height of Outlets

A. All heights measured from finished floor line to centerline of device.
   1. Receptacle (general) 48"
   2. Receptacle (special) as noted on Drawings
   3. Thermostats 5'-0"
   4. Wall Switches 4'-0"

3.07 Panel Circuit Directory

A. Provide a typewritten and laminated directory on inside of cabinet door on all panels designating rooms, outlets and equipment served by each branch circuit of the panel. Panelboards shall be securely anchored to wall by Electrical Contractor.

3.08 Grounding

A. The complete new electrical installation, including metallic boxes and equipment shall be permanently and effectually grounded in accordance with all code requirements, whether or not such connections are specifically shown and/or specified.

B. Every branch and feeder conduit shall contain a green insulated code sized grounding conductor. Care shall be taken to keep the system neutral conductor separate from the equipment ground except at the point of system derivation.

3.09 Cutting and Patching

A. Contractor shall perform all cutting and patching as required for all electrical work inside and outside of building.

B. All conduit penetrations of rated walls will be sealed.

3.10 Wiring of Equipment Furnished by Others

A. Electrical Contractor shall do all power wiring except factory prewired equipment.

B. Furnish and install disconnects at all equipment not furnished with disconnect. Coordinate with HVAC Contractor to ensure all equipment has a properly sized electrical disconnect at the unit.

C. Starters and thermal protective devices not a factory mounted integral part of equipment furnished by Division 23, shall be furnished by the HVAC Contractor but installed and wired by the Electrical Contractor.

3.11 Lighting Fixture Installation

A. This Contractor shall furnish and install all lighting fixtures and lamps as required. Material, equipment or services necessary to complete the installation of these fixtures, but not specifically mentioned, shall be furnished as though specified. All fixtures and lamps shall be properly cleaned and adjusted after installation. All adjustable lighting fixtures shall be carefully positioned by this Contractor in the presence of the Architect or his representative.

3.12 Drawings of Record

A. A blueline or blackline copy of Drawing shall be kept at the job site at all times for the sole purpose of recording horizontal and vertical location of all below grade electrical wiring, referenced to permanent visible structures. At completion of job, neatly record all dimensions and submit for approval by Architect.

3.13 Clean Up

A. Upon completion of work under this Section, all unnecessary equipment, materials, rubbish, etc., shall be removed from project site and surrounding area leaving site in a safe and cleared condition.

3.14 Equipment Label Installation

A. Front cover of each panel, fused disconnect, and other electrical equipment shall have a mechanically attached name plate indicating name/number of panel and second nameplate on subpanels indicating "Fed from (panel #)". Panel nameplates shall have 3/4" letters and secondary nameplates shall have 1/2" letters. Seton #818-2, or approved equal, 1/2" x 4".

3.15 Materials and Workmanship

A. Only new, clean and perfect equipment, apparatus, materials and supplies of latest design and manufacture shall be incorporated in the work in order to assure an electrical system of high quality.

B. All materials shall be new, shall bear the Underwriters Label of Approval and shall be installed according to manufacturer's specifications or as directed by the Architect. The Contractor shall assume responsibility for proper installation of materials in the space available.

3.16 Erection of Apparatus

A. All work shall be done under the supervision of the Contractor who shall provide foremen to lay out all work. All work shall be laid out with due regard for proper working clearances about electrical equipment and the space requirements of the other Contractors. The Contractor shall immediately report to the Architect any conflict or difficulties in regard to the installation.

B. Lighting fixtures, motor switches or controllers, switches, boxes, panels, and other electrical apparatus shall be set, mounted, positioned, coupled, connected, assembled or otherwise erected or constructed as recommended by the manufacture or designer thereof, unless approved by the Architect for erection in some other manner.

C. Where crowded locations exist and where there is a possibility of conflict between the trades, the Contractor shall coordinate the exact locations of electrical work with the other trades. After consultation and agreement between the trades, the location shall be approved by the Architect before installation of the work.

D. Equipment of a type that requires replacement, servicing, adjusting, or maintenance shall be located to allow easy access and space for removal of internal assemblies if required.

3.17 Cutting, Patching and Piercing

A. Obtain written permission of the Architect before cutting or piercing structural members. If, in the process of the electrical work, circuits or equipment need to be installed in an area after it has been completed, the area shall be left in the same condition it was originally. Patching and/or refinishing will be determined by the Owners Representative. Sleeves through floors and walls to be black iron pipe flush with walls, ceilings or finished floors, sized to accommodate the raceway.

B. Use care in piercing waterproofing. After the part piercing the waterproofing has been set in place, seal opening and make completely watertight.

C. Provide chrome-plated spring-clipped escutcheon plates where exposed pipe passes through finished walls, floors or ceilings. Cover sleeves and entire opening made for the pipe with escutcheon plates. Provide air and watertight conduit openings through floor slabs, masonry walls and continuous partitions. Tightly caulk space between conduit and building materials with non flammable sealant.

3.18 Access

A. Equipment, valves and devices shall be mounted in a manner which provides adequate maintenance, inspection access and work space. Where access is required for adjustment, cleanout, inspection of maintenance and such access is not otherwise available, access panels shall be furnished by Division 26. Panels shall be selected by the Architect.

3.19 Cleaning of Equipment and Removal of Rubbish

A. All fixtures, panelboards, motors and all other electrical equipment furnished or installed by the Contractor shall be thoroughly cleaned. At the completion of his work, the Contractor shall remove from the buildings and the premises all rubbish and debris resulting from his operations and shall leave all material and equipment furnished by him and the space occupied by them absolutely ready for use.

B. Under no circumstances shall rubbish be allowed to accumulate in the building or on the premises. All dirt and rubbish resulting from the Contractor's work shall be removed by this Division from time to time and as often as directed by the Architect and Owner's representative.

3.20 Painting

A. All items not provided with a corrosion-resistant finish shall be painted. All electrical control equipment, panels and supporting framework shall have a light gray enamel finish which may be the manufacturer's standard gray, if acceptable to the Architect. Where the finish becomes scratched or marred, it shall be touched up or repainted to match the original finish as directed by the Architect. Particular caution shall be exercised so as not to obscure the nameplate data.

B. All painting other than touch-up of factory finishes shall be by Division 9.

3.21 Tests

A. The entire system shall be tested, demonstrated and explained to such personnel as the Architect shall designate. The Contractor will be required to make the following checks and tests with his instruments as required:
   1. The correctness of lighting circuits to be in conformance with branch circuiting shown on the panel covers after construction.
   2. Motors shall be checked for proper direction of rotation and corrected if necessary.
   3. Grounds shall be checked and the resistance to ground shall not be more than 10 Ohms.
   4. This Contractor shall balance phase currents of all distribution panelboards within +/-10 percent variation between average phase currents and measured individual phase currents.

3.22 Guarantee

A. The Contractor shall guarantee by his acceptance of this Contract that all work installed will be free from any and all defects in workmanship and/or materials and that all apparatus will develop capacities and characteristics specified. If, during a period of one year, or as otherwise specified, from date of Certificate of Completion and acceptance of work, any such defect in workmanship, material or performance appears, the Contractor will without cost to the Owner, remedy such defects within a reasonable time as specified in notice from the Architect. In default thereof, the Owner may have work performed and charge the total cost to the Contractor.

3.23 Maintenance Schedule and Operating Instructions

A. After the project is completed, Contractor shall be required to furnish four (4) copies of instruction sheets to the Owner for the proper maintenance of electrical equipment and systems furnished and installed by him.

B. The Contractor shall be required to instruct Owner's operating personnel in the proper operation of electrical systems.

C. Contractor shall turn over to the Owner all spare parts furnished by manufacturer and those specifically called for in the Specifications. All spare parts shall by properly identified as to the catalog number, manufacturer and the equipment for which they are used.

3.24 Manufacturer's Guarantee and Warranty

A. Manufacturer's equipment guarantee shall be obtained for at least one year. When manufacturer's standard guarantee is for a longer period, or if longer

period is called for in the Specifications, this period shall apply and such items, if defective, shall be replaced in accordance with the terms written in the manufacturer's specifications.

B. Manufacturer's certificates of warranty shall be provided for all major pieces of equipment and such written certificates shall be turned over to the Owner prior to the final acceptance of the Project.

3.25 Electrical Circuitry for Equipment

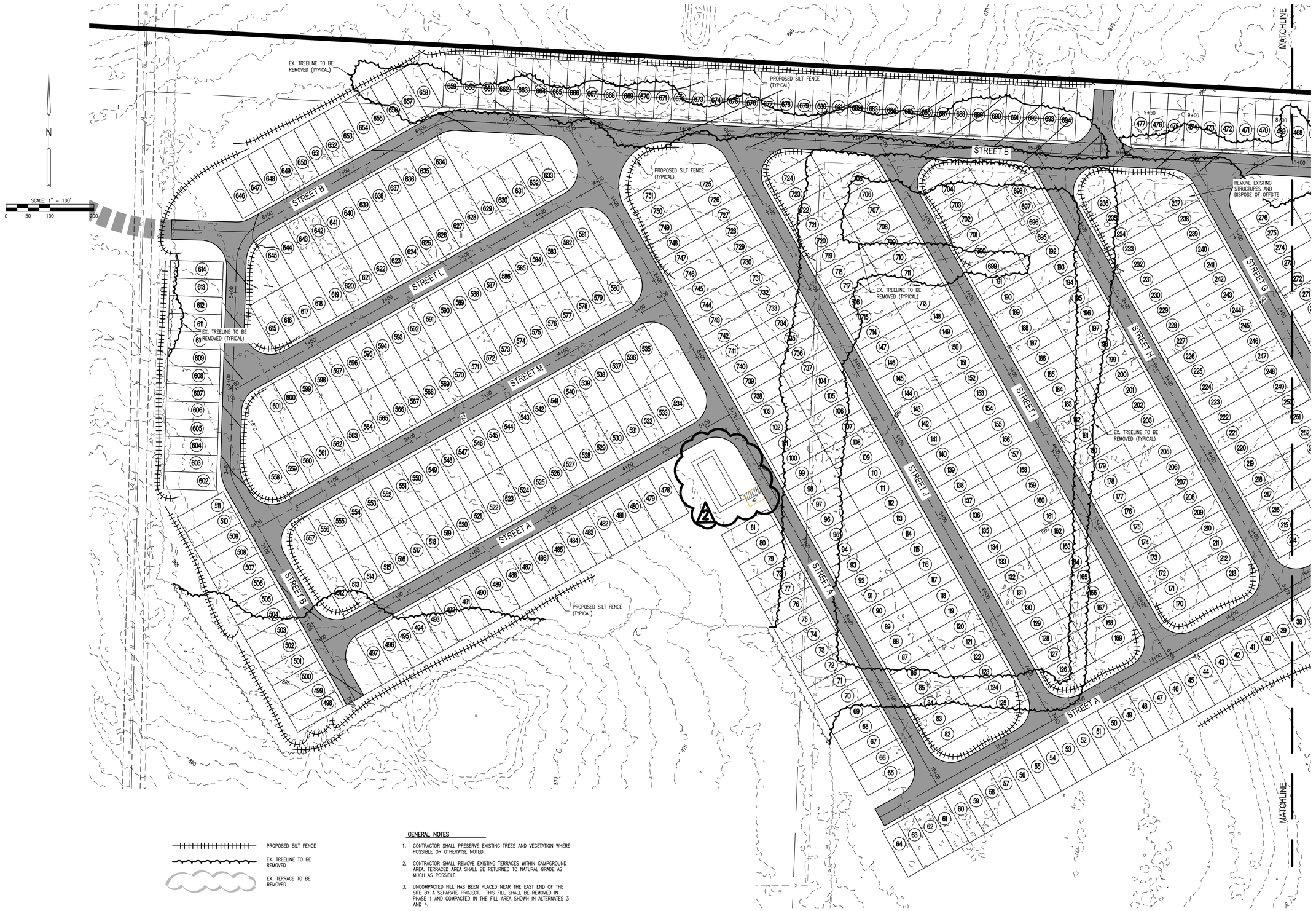
A. The electrical circuits, components, and controls for all equipment are selected and sized, based on the equipment specified. If substitutions and/or equivalent equipment are furnished, it shall be the responsibility of all parties concerned, involved in, and furnishing the substitute and/or equivalent equipment to verify and compare the electrical characteristics and requirements of that furnished to that specified and/or shown. If greater capacity or more materials or labor is required for the rough-in, circuitry or connections than for the item specified and provided for, then it shall be the responsibility of the parties involved in providing the substitute and/or equivalent items of equipment to provide all compensation for additional charges made for the proper rough-in, circuitry and connections for the equipment furnished. No additional charges shall be made to the Base Bid price or to the Owner.

B. Before rough-in of circuitry or connecting to equipment, the Contractor shall verify the electrical characteristics and requirements of the equipment being furnished, and for that specified and shown on drawings.

3.26 Operating Instructions and Maintenance Data

A. Upon completion and acceptance of the work by the Owner, the Contractor shall provide four (4) sets of 8 1/2" x 11" typed operating and maintenance instructions. Sample maintenance instructions will be provided by Engineer upon request. Contractor shall also include wiring diagrams of all controls in each set of maintenance instructions.

END OF SECTION



GENERAL NOTES

1. CONTRACTOR SHALL PRESERVE EXISTING TREES AND VEGETATION WHERE POSSIBLE OR OTHERWISE NOTED.
2. CONTRACTOR SHALL REMOVE EXISTING TERRACES WITHIN CAMPGROUND AREA. TERRACED AREA SHALL BE RETURNED TO NATURAL GRADE AS MUCH AS POSSIBLE.
3. UNCOMPACTED FILL HAS BEEN PLACED NEAR THE EAST END OF THE SITE BY A SEPARATE PROJECT. THIS FILL SHALL BE REMOVED IN PHASE 1 AND COMPACTED IN THE FILL AREA SHOWN IN ALTERNATES 3 AND 4.
4. EXCEPT AS CALLED OUT IN NOTES 2 AND 3 ABOVE, ONLY MINOR GRADING IS ANTICIPATED TO SHAPE INDIVIDUAL CAMPSITES TO FIT THE TYPICAL CAMPSITE GRADING DETAIL SHOWN ON SHEET C108.

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
BRIAN P. HARRINGTON
NUMBER PE-2000162110
PROFESSIONAL ENGINEER
10/21/2025

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MISSOURI STATE CERTIFICATE OF AUTHORITY #2007004004
REUSE OF THIS DRAWING IN ANY MANNER IS STRICTLY PROHIBITED WITHOUT THE WRITTEN APPROVAL OF ALLSTATE CONSULTANTS LLC

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

MISSOURI STATE FAIRGROUNDS

NEW CAMPGROUND CONSTRUCTION PLANS

MISSOURI STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
FACILITY #

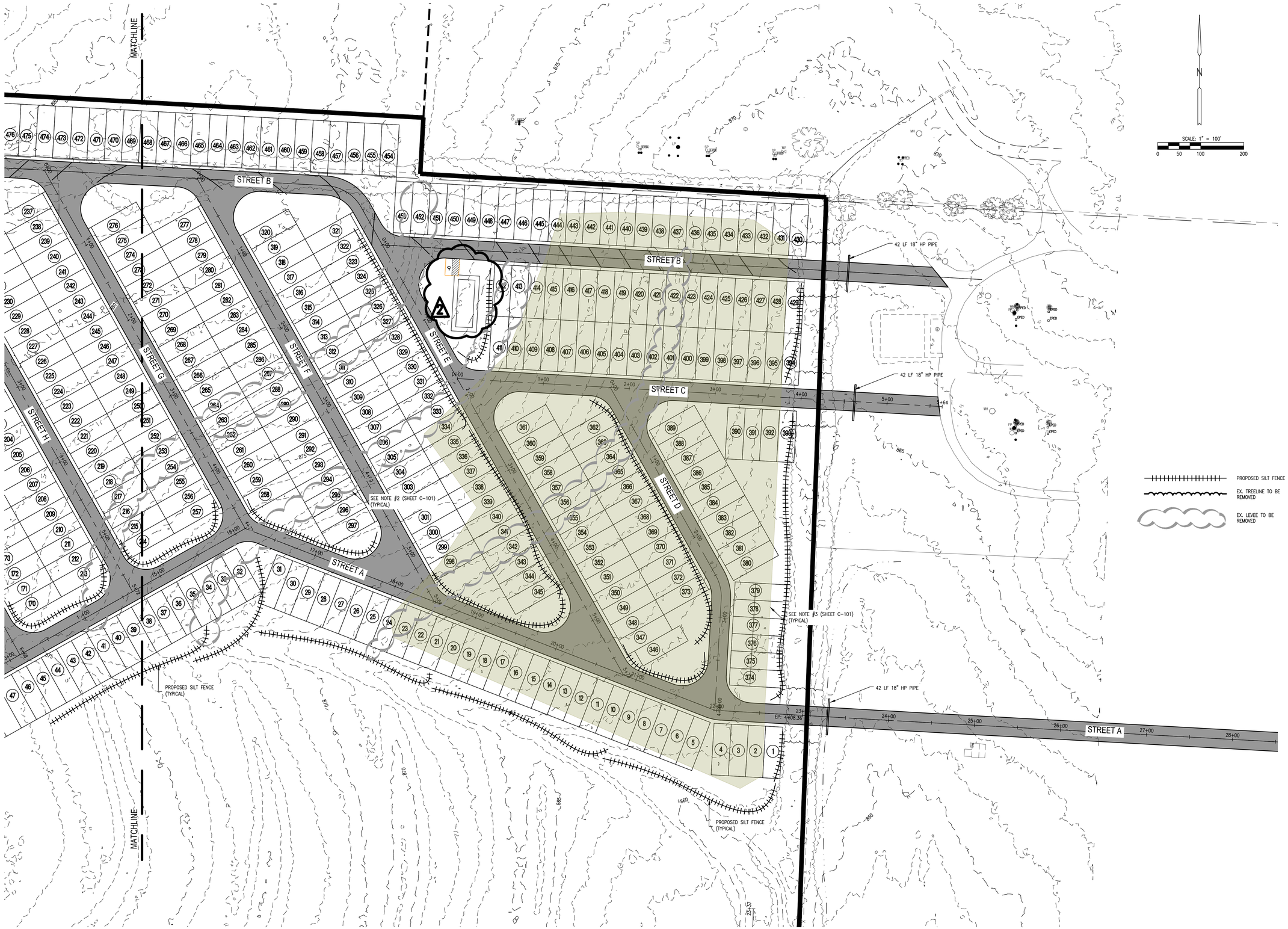
REVISION: 1
DATE: 09/19/2025
REVISION: 2
DATE: 10/21/2025
REVISION:
DATE:
ISSUE DATE: 09/05/2025

CAD DWG FILE: 23117.02-SHEETSBASE
DRAWN BY: DEP
CHECKED BY: CWS
DESIGNED BY: BPH

SHEET TITLE:
STREET AND GRADING

SHEET NUMBER:
C-101

P:\2023\23117.02 - Campgrounds Expansion\DWG\DESIGN\23117.02-SHEETSBASE GRADING.dwg, C-101, 10/21/2025 2:20:38 PM



STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
BRIAN P. HARRINGTON
NUMBER PE-2000162110
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10/21/2025

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DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND
CONSTRUCTION PLANS

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
FACILITY #

REVISION: 1
DATE: 09/19/2025
REVISION: 2
DATE: 10/21/2025
REVISION:
DATE:
ISSUE DATE: 09/05/2025

CAD DWG FILE: 23117.02-SHEETSBASE
DRAWN BY: DEP
CHECKED BY: CWS
DESIGNED BY: BPH

SHEET TITLE:
STREET AND GRADING

SHEET NUMBER:
C-102

5 OF 59
09/05/2025

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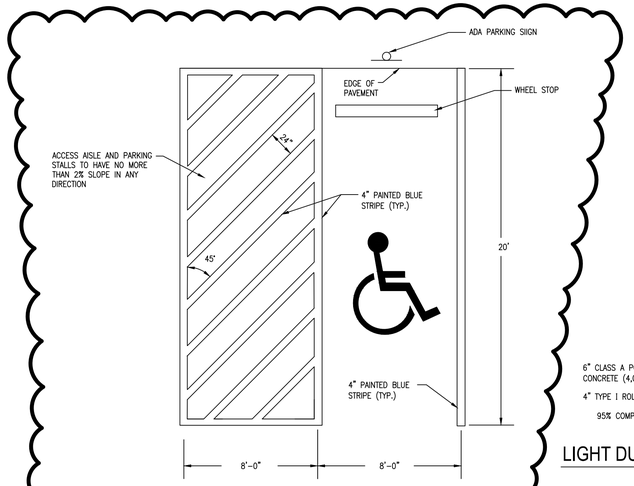
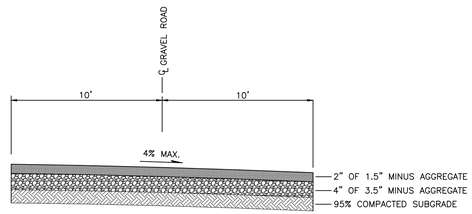


ADA HANDICAP PARKING SPACE DETAIL

(NOT TO SCALE)

2



GRAVEL CAMPSITE ACCESS DRIVES

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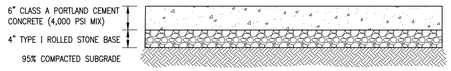
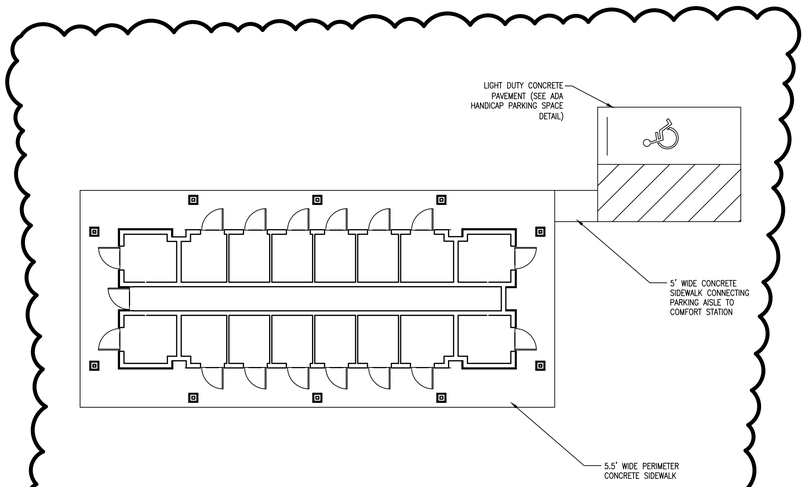


LIGHT DUTY CONCRETE PAVEMENT (ADA SPACE AT COMFORT STATION)

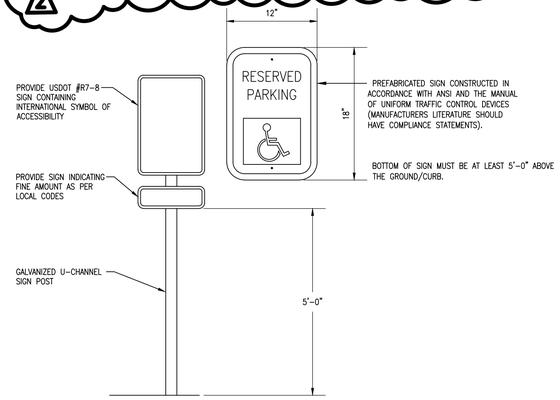
(NOT TO SCALE)



TYPICAL COMFORT STATION SIDEWALK AND PARKING SPACE

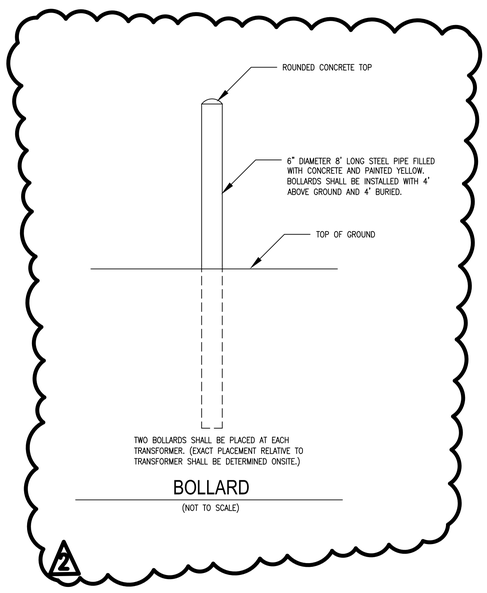
(NOT TO SCALE)

2



ADA HANDICAP PARKING SIGN

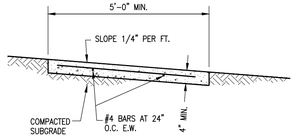
(NOT TO SCALE)



BOLLARD

(NOT TO SCALE)

2

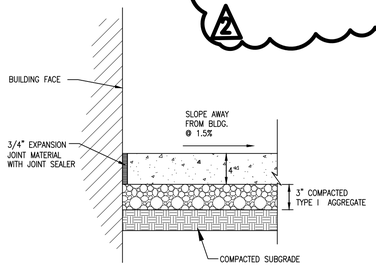


NOTE:

1. SIDEWALK SHALL BE 4" THICK CLASS A CONCRETE, LIGHT BROOM FINISH WITH NO TOOLED BORDER.
2. INSTALL 1/2" EXPANSION JOINTS AT INTERSECTIONS, RAMPS AND STRUCTURES.
3. INSTALL TRANSVERSE SAW JOINTS AT SPACING EQUAL TO SIDEWALK WIDTH.
4. FOR SIDEWALKS WIDER THAN 6 FEET, INSTALL LONGITUDINAL SAW JOINT AT ℄, TRANSVERSE SAW JOINT SPACING EQUAL TO 1/2 SIDEWALK WIDTH.
5. SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.00%.
6. ALL EXTERIOR CONCRETE SHALL BE SEALED WITH SPECSILANE 20 WB.

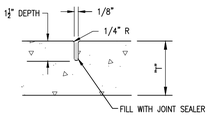
SIDEWALK DETAIL

(NOT TO SCALE)



SIDEWALK/CONCRETE PAD AT BUILDING

(NOT TO SCALE)



SAWED CONTROL JOINT

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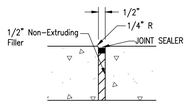

EXPANSION JOINT W/O REBAR

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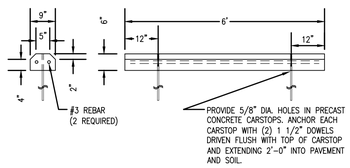

WHEEL STOP DETAIL

(NOT TO SCALE)

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

STATE OF MISSOURI
BRIAN P. HARRINGTON
NUMBER PE-2000162110
PROFESSIONAL ENGINEER
10/21/2025

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MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND
CONSTRUCTION PLANS

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
FACILITY #

REVISION: 1
DATE: 09/19/2025
REVISION: 2
DATE: 10/21/2025
REVISION:
DATE:
ISSUE DATE: 09/05/2025

CAD DWG FILE: 23117.02-DETAILS.dwg
DRAWN BY: DEP
CHECKED BY: CWS
DESIGNED BY: BPH

SHEET TITLE:
DETAILS

SHEET NUMBER:
C-107

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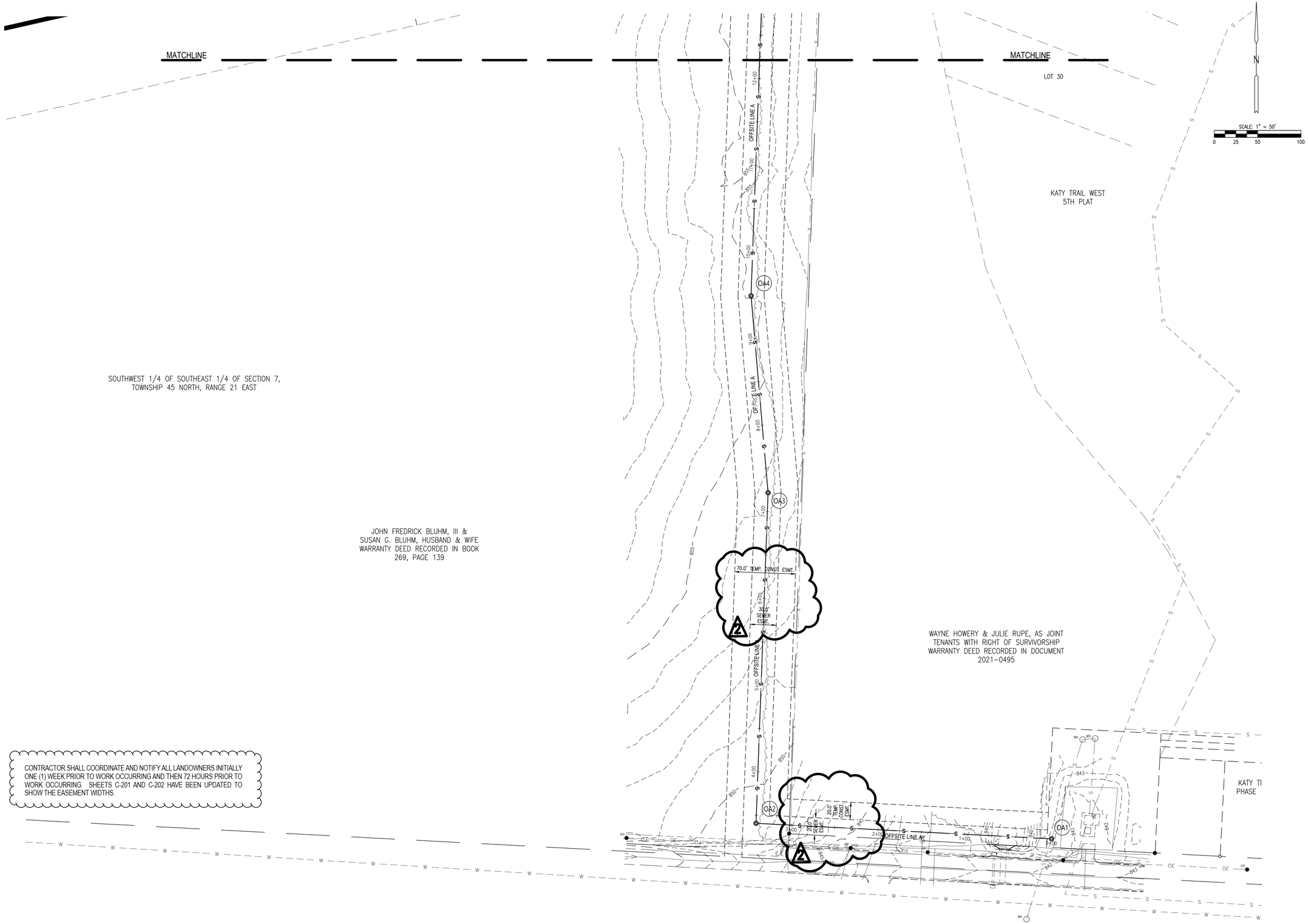

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CAD DWG FILE: 23117.02-SHEETSBASE
DRAWN BY: DEP
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DESIGNED BY: BPH

SHEET TITLE:

SANITARY SEWER

SHEET NUMBER:

C-201

13 OF 59
09/05/2025

P:\2023\23117.02 - Campgrounds Expansion\DWG\DESIGN\23117.02-SHEETSBASE SANITARY.dwg, C-201, 10/21/2025 2:31:53 PM

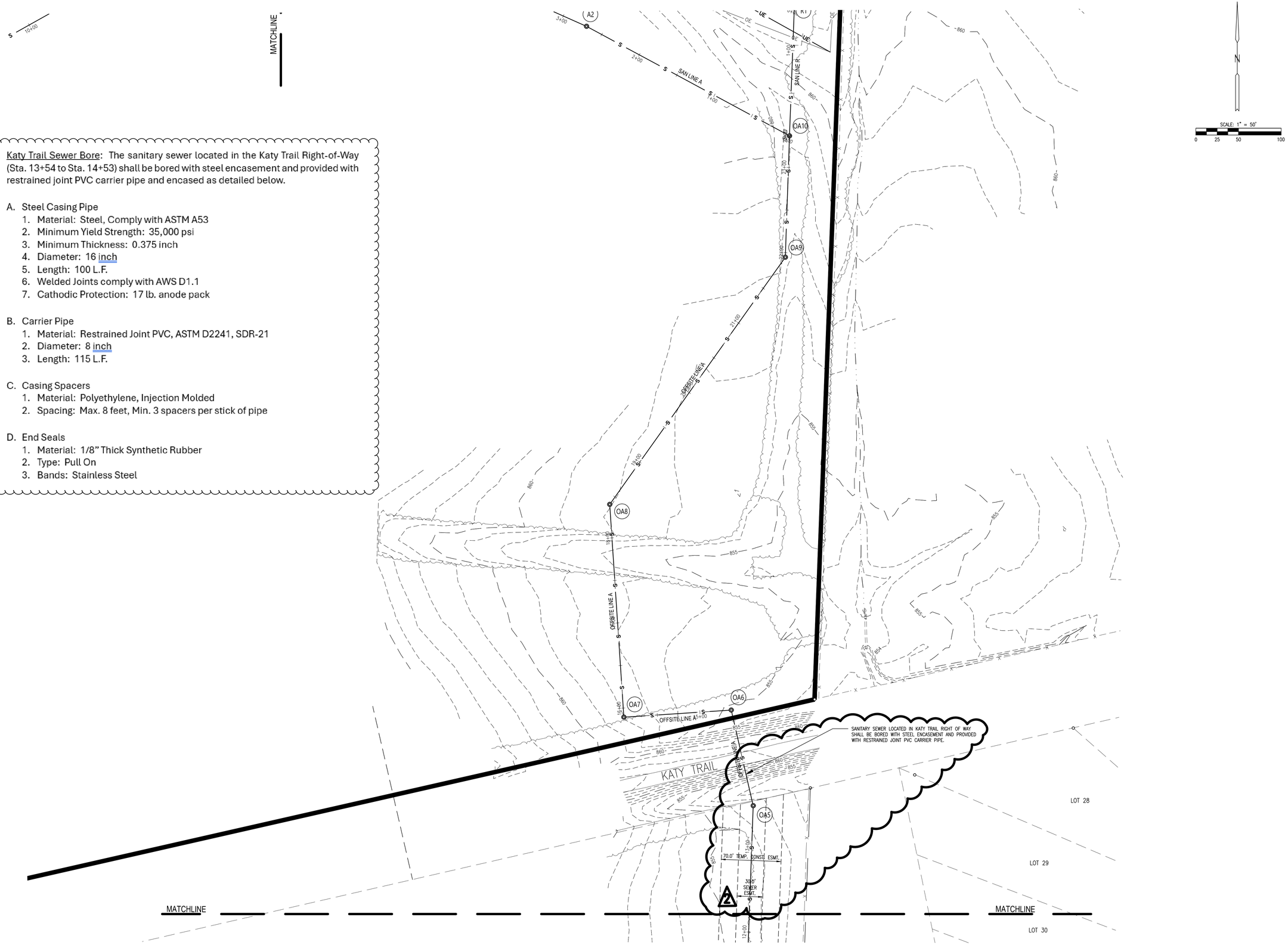
1. Katy Trail Sewer Bore: The sanitary sewer located in the Katy Trail Right-of-Way (Sta. 13+54 to Sta. 14+53) shall be bored with steel encasement and provided with restrained joint PVC carrier pipe and encased as detailed below.

   A. Steel Casing Pipe
      1. Material: Steel, Comply with ASTM A53
      2. Minimum Yield Strength: 35,000 psi
      3. Minimum Thickness: 0.375 inch
      4. Diameter: 16 inch
      5. Length: 100 L.F.
      6. Welded Joints comply with AWS D1.1
      7. Cathodic Protection: 17 lb. anode pack

   B. Carrier Pipe
      1. Material: Restrained Joint PVC, ASTM D2241, SDR-21
      2. Diameter: 8 inch
      3. Length: 115 L.F.

   C. Casing Spacers
      1. Material: Polyethylene, Injection Molded
      2. Spacing: Max. 8 feet, Min. 3 spacers per stick of pipe

   D. End Seals
      1. Material: 1/8" Thick Synthetic Rubber
      2. Type: Pull On
      3. Bands: Stainless Steel



STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

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DESIGNED BY: BPH

SHEET TITLE:
SANITARY SEWER

SHEET NUMBER:
C-202

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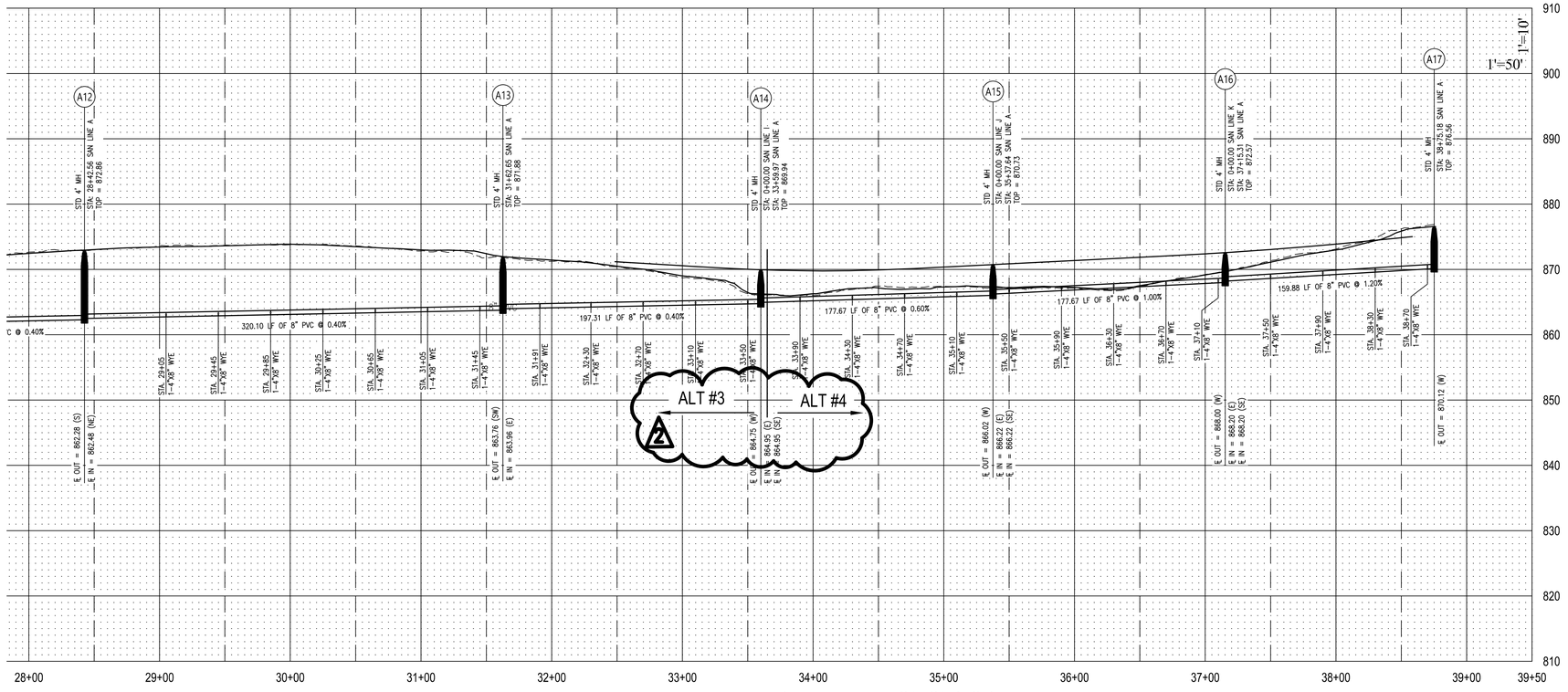
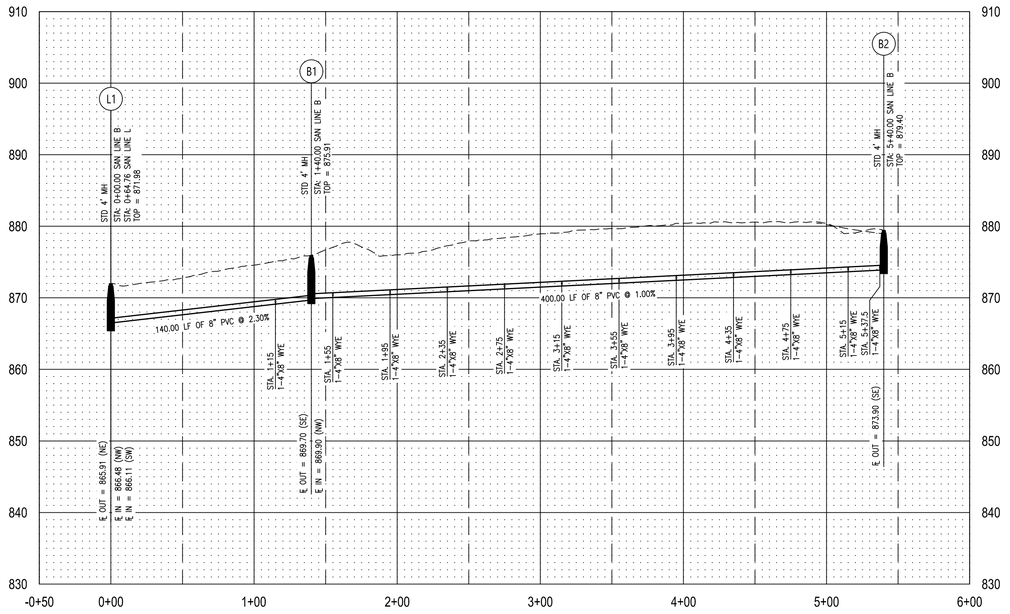
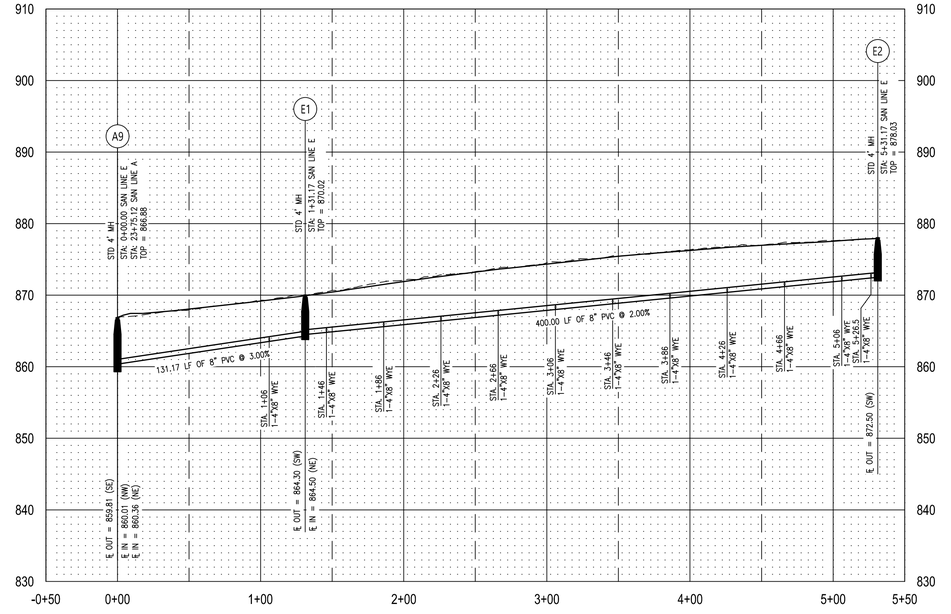


(ALTERNATE #1, #3 & #4)



SAN LINE B (BASE BID)



SAN LINE E (ALTERNATE #1)

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DESIGNED BY: BPH

SHEET TITLE:
SANITARY SEWER

SHEET NUMBER:
C-206

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MECHANICAL SYMBOL SCHEDULE

WST	WASTE PIPING	
V	VENT PIPING	
VW	VENT PIPING OVER WASTE PIPING	
CW	COLD WATER PIPING	
HW	HOT WATER PIPING	
G	GAS PIPING	
	PIPE FITTINGS (ELL DOWN – TEE DOWN – TEE UP)	
	VALVE	– CHECK VALVE
	UNION	– STRAINER
	GAS COCK	– BALANCING COCK
A200 12x12	AIR TERMINAL TAG. "A" INDICATES MARK ON GRILLE AND REGISTER SCHEDULE.	
	"200" INDICATES AIR VOLUME IN CFM. "12x12" INDICATES FACE SIZE.	
	AIR TERMINALS (REGISTER – GRILLE)	
	FIRE DAMPER	
	SMOKE DAMPER	
	MANUAL DAMPER	
	MOTORIZED DAMPER	
T1 H1	THERMOSTAT – HUMIDISTAT (ZONE SUBSCRIPT)	
WST V	WASTE	– VENT
CO VTR	CLEAN OUT	– VENT THROUGH ROOF
SA RA	SUPPLY AIR	– RETURN AIR
FA EA	FRESH AIR	– EXHAUST AIR
N/E E/R	NEW CONNECTS TO EXISTING	– EXISTING TO REMAIN
	PENDANT MOUNTED SPRINKLER HEAD	
	UPRIGHT MOUNTED SPRINKLER HEAD	
	PENDANT HEAD BELOW / UPRIGHT HEAD ABOVE	
	SIDEWALL SPRINKLER HEAD	
	EXTENDED COVERAGE SIDEWALL SPRINKLER HEAD	

ELECTRICAL SYMBOL SCHEDULE

P2–22,24	HOME RUN CIRCUIT TO PANEL P2, CIRCUITS 22,24
	EACH ARROW INDICATES ONE CIRCUIT
	SHORT HATCH MARKS INDICATE # OF PHASE CONDUCTORS
	LONG HATCH MARKS INDICATE # OF NEUTRAL CONDUCTORS
	NO HATCH MARK INDICATES TWO CONDUCTORS
E	ELECTRICAL SERVICE OR FEEDER WIRING
	WIRING IN WALL OR CEILING – WIRING IN FLOOR
	RECEPTACLE OUTLET (DUPLEX – QUADRUPLEX – SPECIAL POWER)
	COMMUNICATIONS OUTLET (TELEPHONE – CATV – DATA/PHONE)
3 D 4 P S K T OS	WALL SWITCH (3–WAY – DIMMER – 4–WAY – PILOT – SPEED – KEYED – TIMER – OCCUPANCY)
	LED STYLE LIGHT FIXTURE (CEILING MOUNTED – WALL MOUNTED)
OS S	LED STYLE LIGHT FIXTURE (ENCLOSED – STRIP) (S INDICATES SPLIT WIRED)
	EXIT LIGHT – EMERGENCY LIGHT – EMERGENCY/EXIT LIGHT
C	OTHER RECEPTACLE OUTLET (CLOCK – FLOOR – SPLIT WIRED)
	ELECTRIC PANEL
S T	SPEAKER – PUSH TO TALK
J P	JUNCTION BOX – PULL BOX
F D	DISCONNECT (FUSED – NONFUSED)
S C	STARTER – CONTACTOR
5–208–3	ELECTRIC MOTOR (5 HP – 208V – 3 PHASE)
T1 H1	THERMOSTAT – HUMIDISTAT (ZONE SUBSCRIPT)
42 G W U	OUTLET MODIFIERS (MOUNT HEIGHT INCHES – GFI PROTECTED – WEATHER PROOF GFI – USB)
S H D F	SMOKE DETECTOR – HEAT DETECTOR – DUCT DETECTOR – MANUAL PULL STATION
AV V	AUDIO VISUAL – VISUAL
M R	MAGNETIC DOOR HOLDER – INTERLOCK RELAY
	END OF LINE RESISTOR
FACP	FIRE ALARM CONTROL PANEL
DIAL	DIALER

PLUMBING FIXTURE SCHEDULE

MARK	QTY	FIXTURE	MODEL NUMBER
WC1	–	WATER CLOSET	WILLOUGHBY ETWS–1490–CM–BS–1.6 GPF ULF–GWC–FV–FVT, 17 1/2" HEIGHT, ELONGATED BOWL,
			CONCEALED CHAIR CARRIER, MOUNT PER ADA.
L1	–	LAVATORY	WILLOUGHBY HS–1014–96–HC–DMS–PML2–PPB–4CC–EB–LWE–WS, MOEN 8938 FAUCET,
			P–TRAP, SPEEDWAY CR1920A SUPPLIES AND STOPS. CONCEALED CHAIR CARRIER, MOUNT PER ADA.
SHR	–	SHOWER	SEE ARCHITECTURAL FOR SHOWER ENCLOSURE, SEAT, AND GRAB BARS
			WILLOUGHBY CWCWS–1–PML1–PBH–2.5 GPM–FX–TMV–HCA, 3–1/4" DRAIN.
EWC	–	ELEC WATER COOLER	ELKAY VRCBWSK COOLER, W/ BOTTLE FILLERS. MOUNT PER ADA
FD	–	FLOOR DRAIN	JOSAM 30003–6A, NICKALOY TOP, WITH P–TRAP AND TRAP SEAL.
HB	–	HOSE BIB	WOODFORD MODEL 67P SERIES POLISHED CHROME WALL FAUCET, VACUUM BREAKER.
			WITH B67 LOCKABLE POLISHED CHROME WALL BOX
WH1	–	WATER HEATER	A.O. SMITH GOLD SERIES DRE–120, 119 GALLON ELECTRIC, 54KW INPUT. (62.25"x 35")
HWRP	–	HW RETURN PUMP	TACO MODEL 006 CARTRIDGE CIRCULATOR PUMP, 1/40 HP, 0.52A, 120V, 1ø
RPZ	–	RPZ BACKFLOW PREV	WATTS LF909QT SERIES – REDUCED PRESSURE ZONE ASSEMBLY
MV	–	MIXING VALVE	CALEFFI 523177A, 1–1/4", 195°F TO 104°F, MIXING VALVE
ET	–	EXPANSION TANK	AMTROL ST–30V

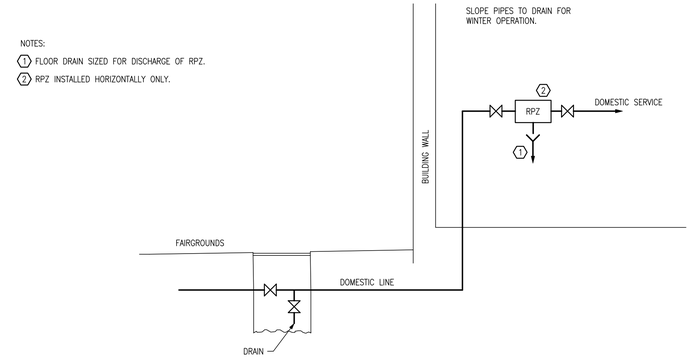
SINGLE CAMPSITE WIRE SIZE CHART

WIRE SIZE (CU)	MINIMUM LENGTH OF CIRCUIT	MAXIMUM LENGTH OF CIRCUIT
3 #2	–	260'
3 #1	260'	325'
3 #1/0	325'	410'
3 #2/0	410'	520'
3 #3/0	520'	655'
3 #4/0	655'	825'
3 #250MCM	825'	975'
3 #300MCM	975'	>975'

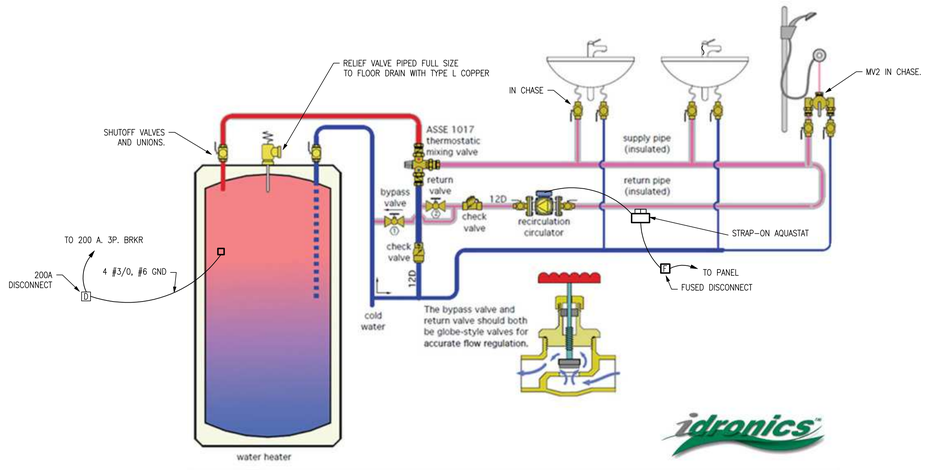
DOUBLE CAMPSITE WIRE SIZE CHART

WIRE SIZE (CU)	MINIMUM LENGTH OF CIRCUIT	MAXIMUM LENGTH OF CIRCUIT
3 #2/0	–	260'
3 #3/0	260'	325'
3 #4/0	325'	410'
3 #250MCM	410'	485'
3 #300MCM	485'	585'
3 #350MCM	585'	685'
3 #400MCM	685'	780'
3 #500MCM	780'	975'
3 #600MCM	975'	>975'

2



1 ME1 **BACKFLOW ASSEMBLY**
NO SCALE



2 ME1 **ELECTRIC WATER HEATER PIPING**
NO SCALE

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

FREDDIE L. MALICOAT - ENGINEER
MO# E-16897

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TEL 573–875–1300
FREDDIE MALICOAT, P.E.

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CAD DWG FILE: M-PLN-01
DRAWN BY: JDB
CHECKED BY: FM
DESIGNED BY: FM

SHEET TITLE:
SCHEDULES & SPECIFICATIONS

SHEET NUMBER:
ME1

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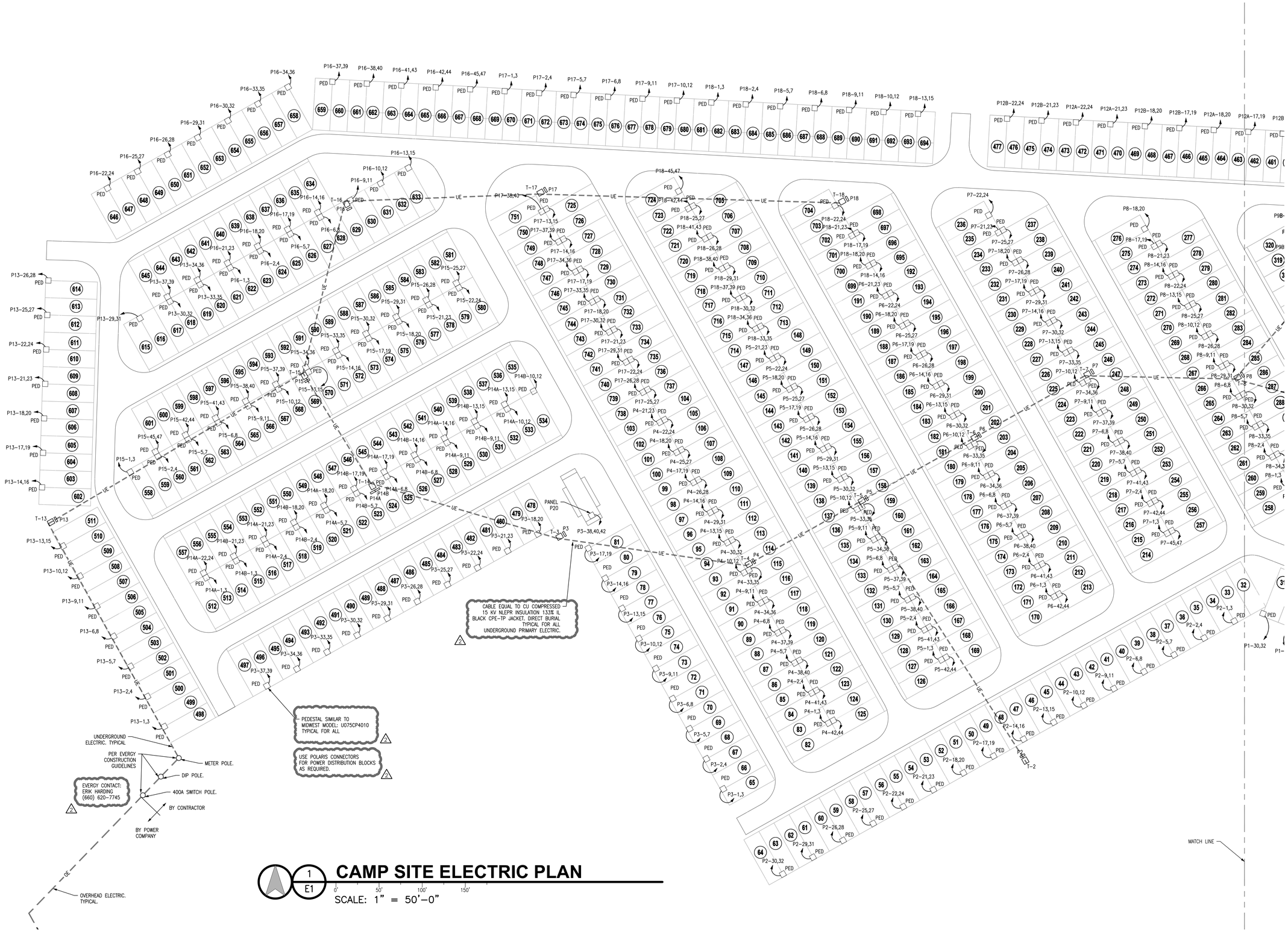

CAMP SITE ELECTRIC PLAN

1 / E1

0' 50' 100' 150'

SCALE: 1" = 50'-0"

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STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

FREDDIE L. MALICOAT - ENGINEER
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STATE OF MISSOURI — FREDDIE L. MALICOAT — NUMBER E-16897 — REGISTERED PROFESSIONAL ENGINEER
10-21-25

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FACILITY #

REVISION: 1
DATE: 09/05/2025
REVISION: 2
DATE: 10/21/2025
REVISION:
DATE:
ISSUE DATE:

CAD DWG FILE: E-PLN-01
DRAWN BY: JDB
CHECKED BY: FM
DESIGNED BY: FM

SHEET TITLE:

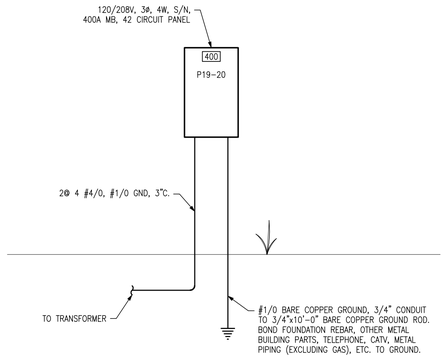
CAMP SITE
ELECTRIC PLAN

SHEET NUMBER:

E1

47 OF 59
09/05/2025

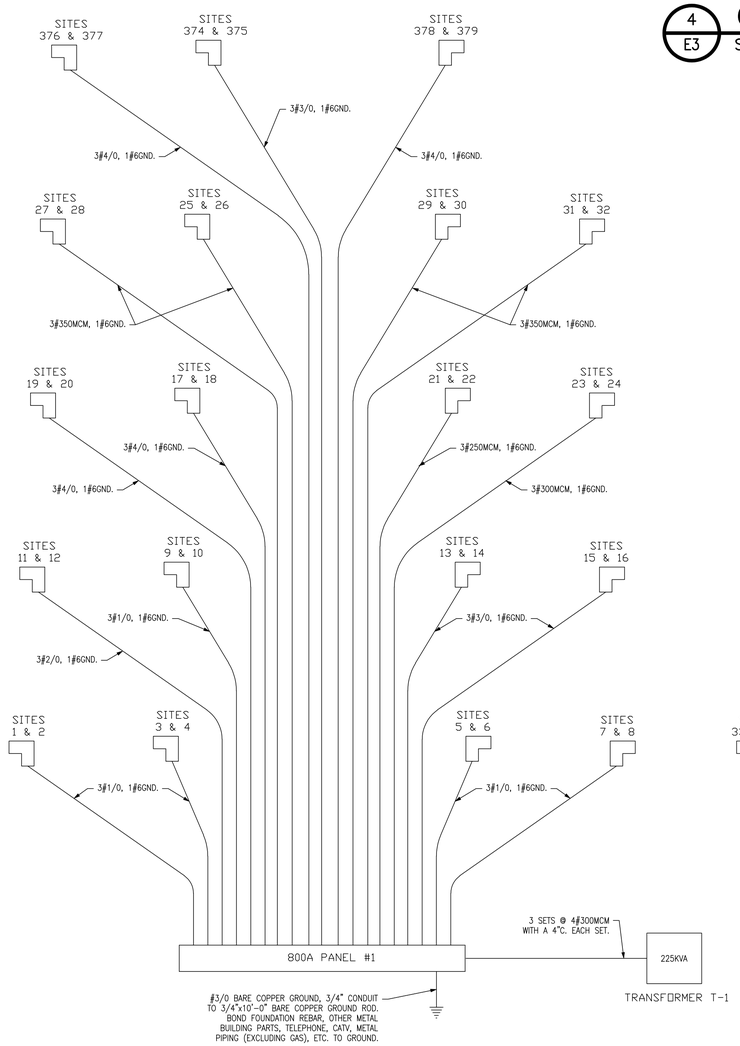
NOTE:
1. REFER TO PANEL SCHEDULES ON SHEETS E9-E11 FOR BREAKER SIZES.
2. REFER TO CAMPGROUND ELECTRIC SERVICES TABLE ON SHEET ME1 FOR RECOMMENDED MINIMUM WIRE SIZES AND LENGTHS.
3. WIRE SIZES ASSUME COPPER WIRE.
4. ALL TRANSFORMERS TO BE 15KV TO 208V, 3Ø TRANSFORMERS PER EVERGY REQUIREMENTS



4 E3 COMFORT STATION ELECTRIC RISER

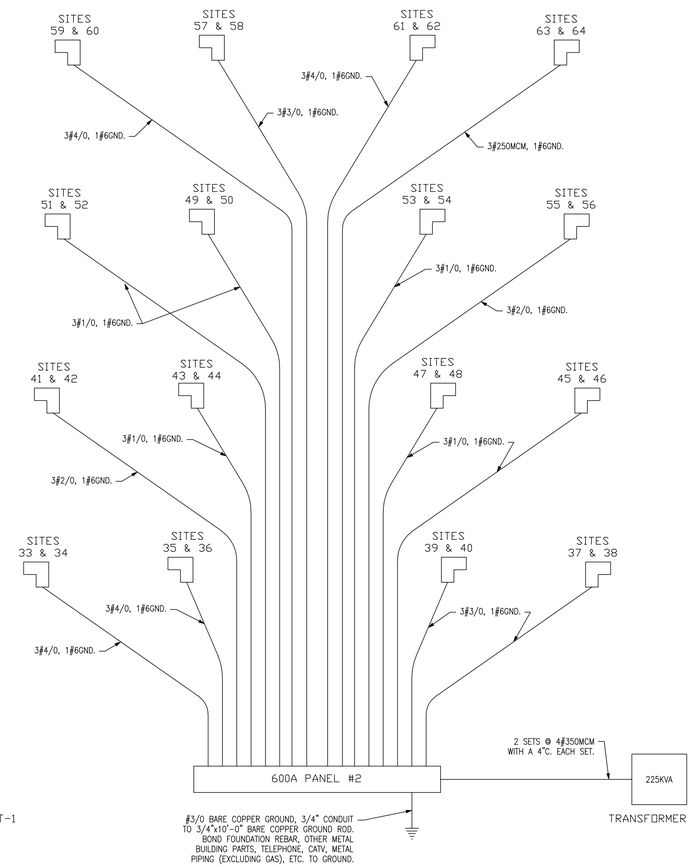
SCALE: NO SCALE

TYPICAL OF 2



1 E3 ELECTRIC RISER DIAGRAM

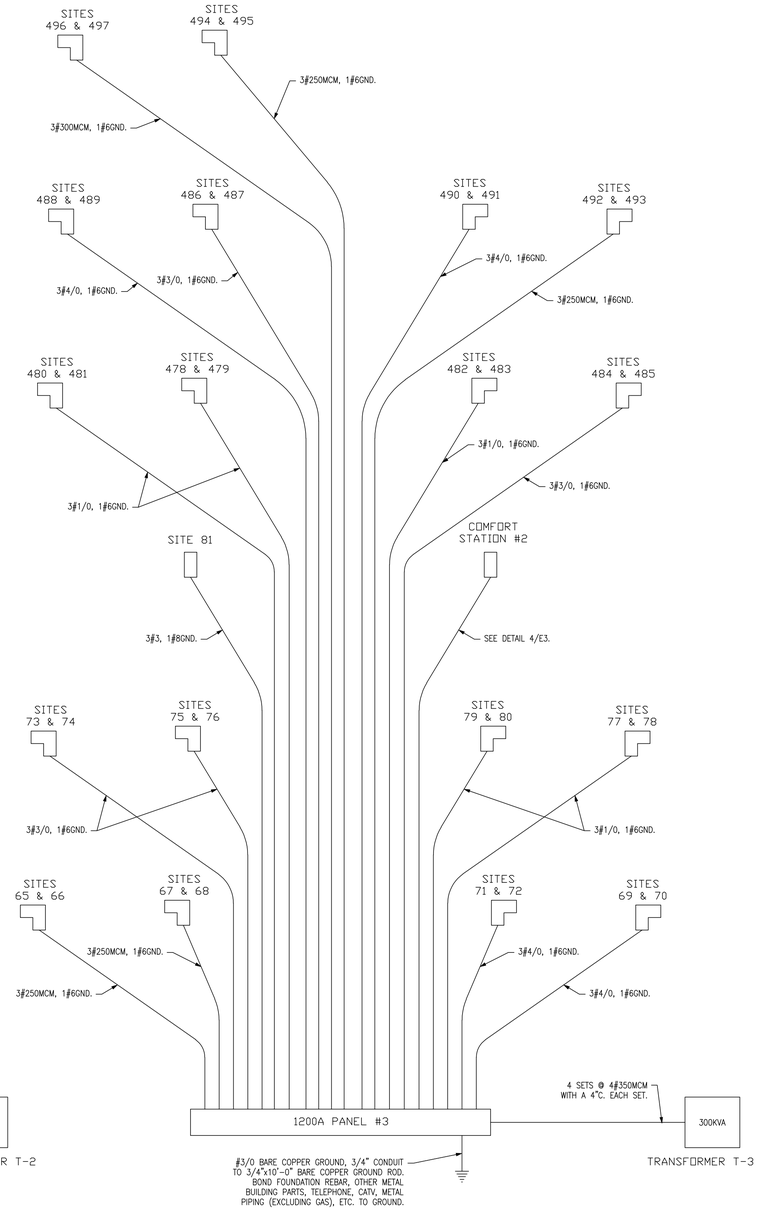
SCALE: NO SCALE



2 E3 ELECTRIC RISER DIAGRAM

SCALE: NO SCALE

2 ENTIRE SHEET WAS REVISED.



3 E3 ELECTRIC RISER DIAGRAM

SCALE: NO SCALE

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STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

FREDDIE L. MALICOAT - ENGINEER
MO# E-16897

STATE OF MISSOURI
FREDDIE L. MALICOAT
NUMBER E-16897
REGISTERED PROFESSIONAL ENGINEER
10-21-25

MALICOAT - WINSLOW ENGINEERS, INC.
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FREDDIE MALICOAT, P.E.

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND
CONSTRUCTION PLANS

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
FACILITY #

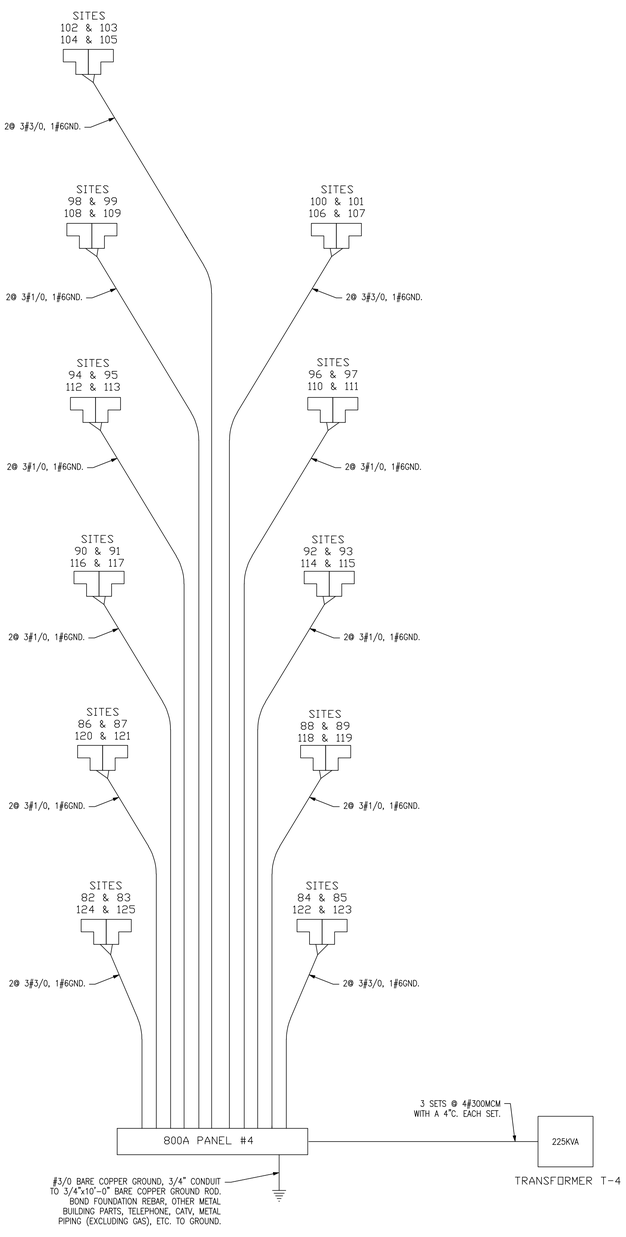
REVISION: 1
DATE: 09/05/2025
REVISION: 2
DATE: 10/21/2025
REVISION:
DATE:
ISSUE DATE:

CAD DWG FILE: E-PLN-03
DRAWN BY: JDB
CHECKED BY: FM
DESIGNED BY: FM

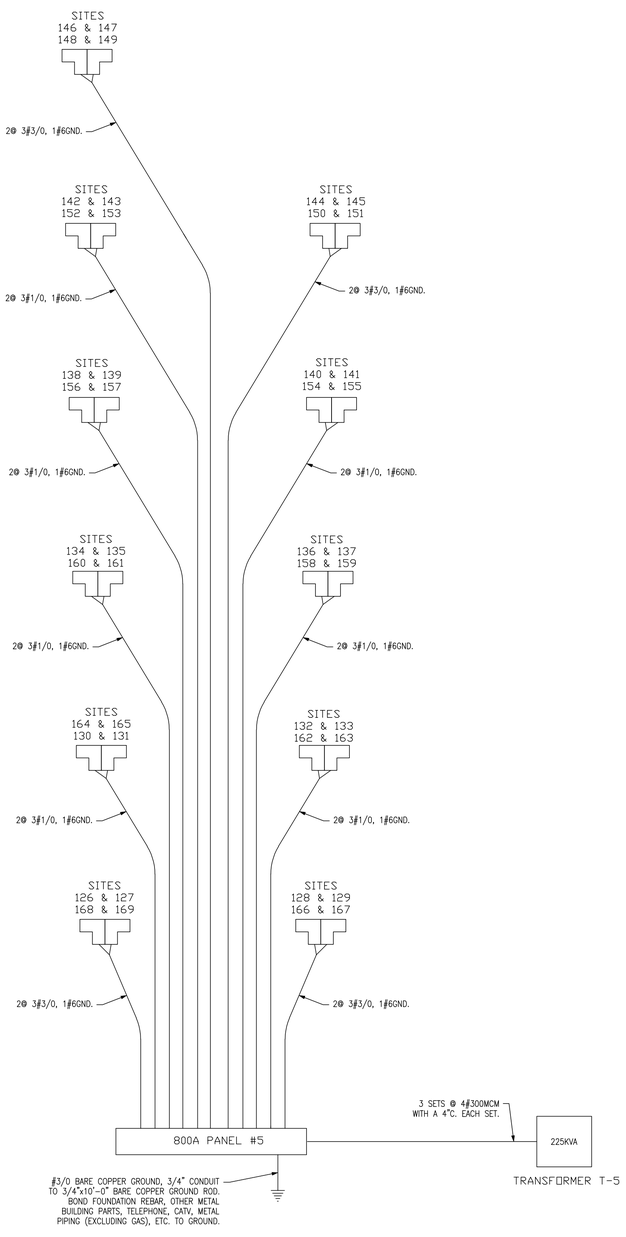
SHEET TITLE:
ELECTRIC RISER DIAGRAMS

SHEET NUMBER:
E3

NOTE:
1. REFER TO PANEL SCHEDULES ON SHEETS E9-E11 FOR BREAKER SIZES.
2. REFER TO CAMPGROUND ELECTRIC SERVICES TABLE ON SHEET ME1 FOR RECOMMENDED MINIMUM WIRE SIZES AND LENGTHS.
3. WIRE SIZES ASSUME COPPER WIRE.
4. ALL TRANSFORMERS TO BE 15KV TO 208V, 3Ø TRANSFORMERS PER EVERGY REQUIREMENTS

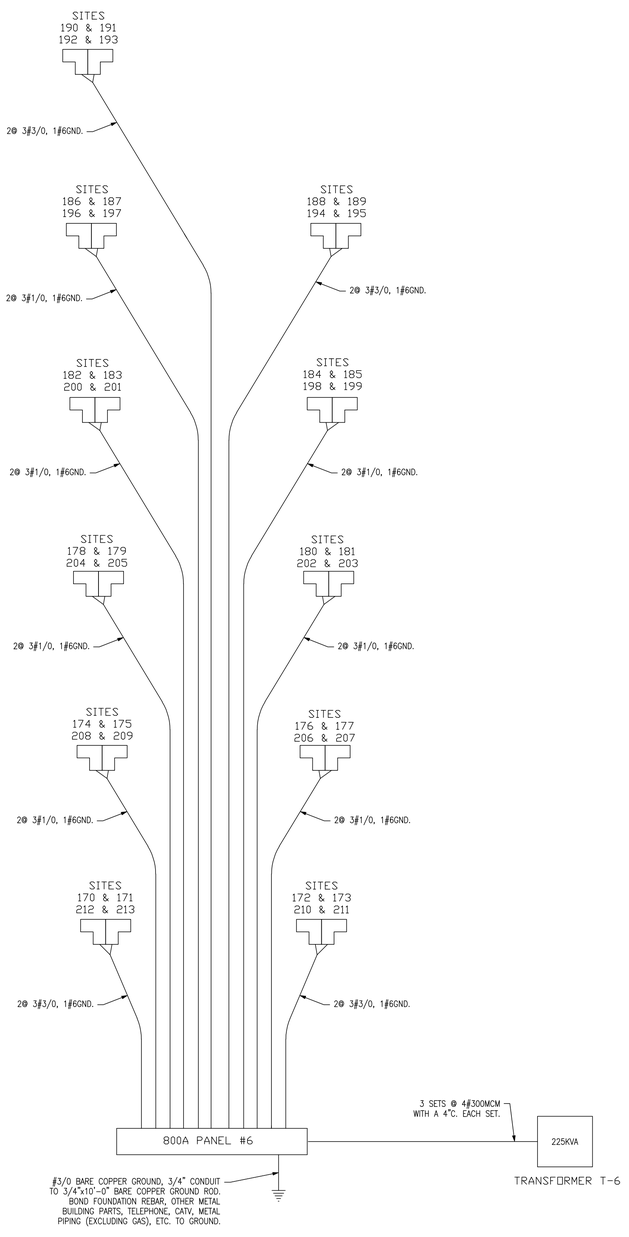


1 E4 **ELECTRIC RISER DIAGRAM**
SCALE: NO SCALE



2 E4 **ELECTRIC RISER DIAGRAM**
SCALE: NO SCALE

2 ENTIRE SHEET WAS REVISED.



3 E4 **ELECTRIC RISER DIAGRAM**
SCALE: NO SCALE

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

FREDDIE L. MALICOAT - ENGINEER
MO# E-16897

STATE OF MISSOURI — FREDDIE L. MALICOAT — NUMBER E-16897 — REGISTERED PROFESSIONAL ENGINEER
10-21-25

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FREDDIE MALICOAT, P.E.

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND
CONSTRUCTION PLANS

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
FACILITY #

REVISION: 1
DATE: 09/05/2025
REVISION: 2
DATE: 10/21/2025
REVISION:
DATE:
ISSUE DATE:

CAD DWG FILE: E-PLN-04
DRAWN BY: JDB
CHECKED BY: FM
DESIGNED BY: FM

SHEET TITLE:
ELECTRIC RISER DIAGRAMS

SHEET NUMBER:
E4

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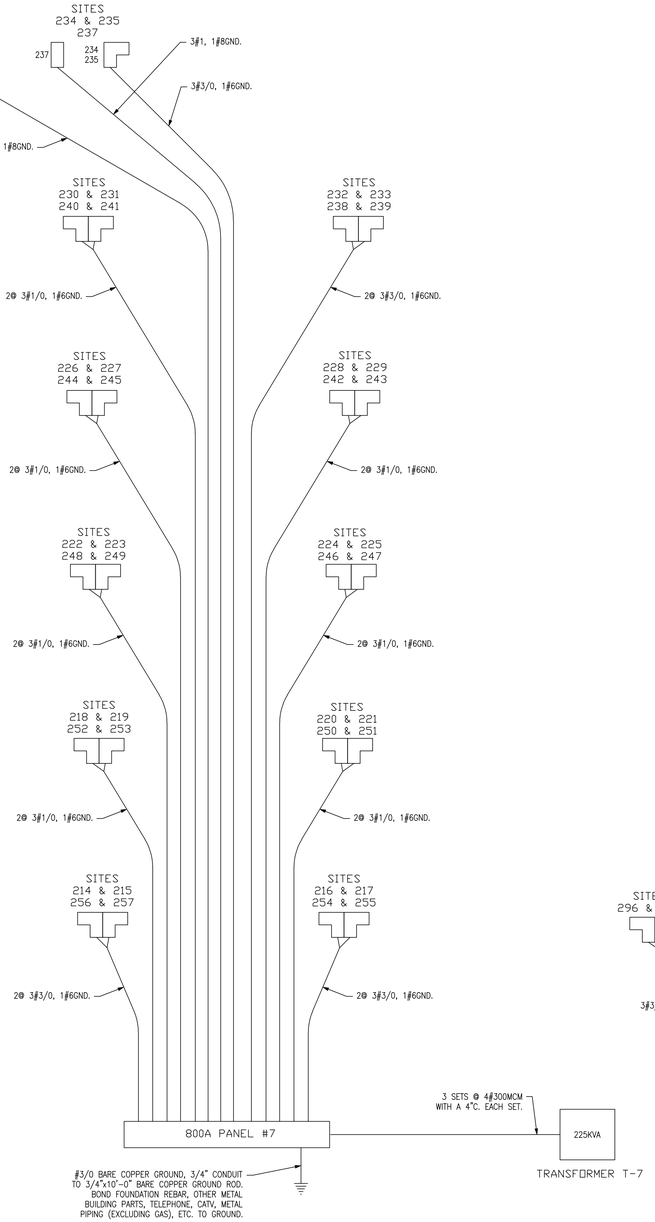
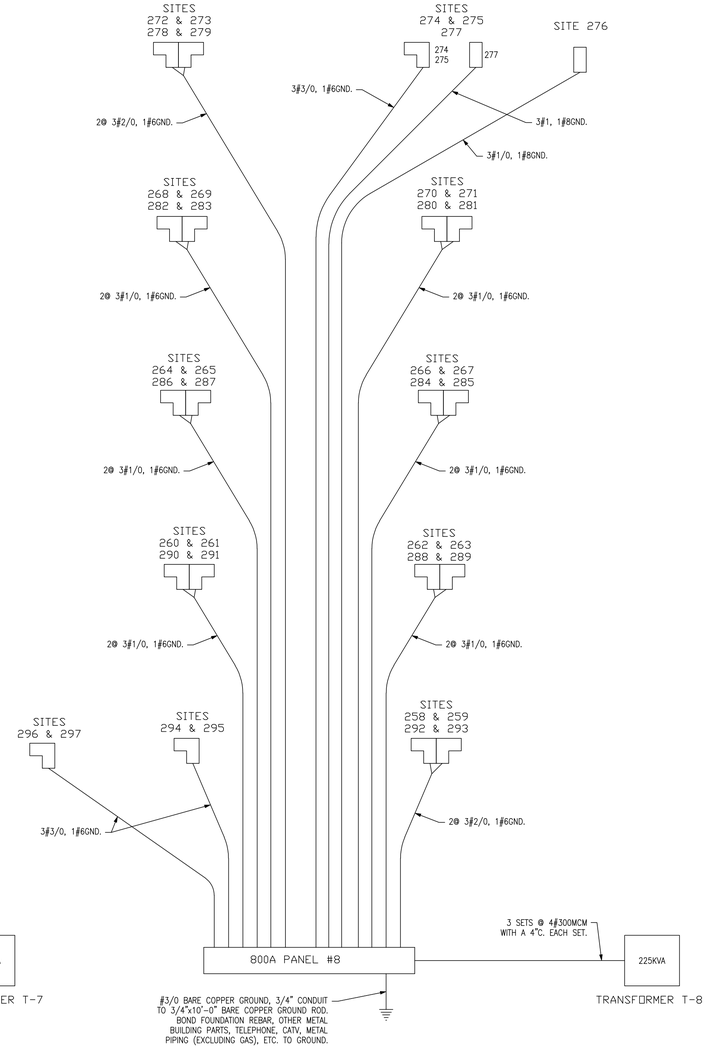
NOTE:
1. REFER TO PANEL SCHEDULES ON SHEETS E9-E11 FOR BREAKER SIZES.
2. REFER TO CAMPGROUND ELECTRIC SERVICES TABLE ON SHEET ME1 FOR RECOMMENDED MINIMUM WIRE SIZES AND LENGTHS.
3. WIRE SIZES ASSUME COPPER WIRE.
4. ALL TRANSFORMERS TO BE 15KV TO 208V, 3ø TRANSFORMERS PER EVERGY REQUIREMENTS

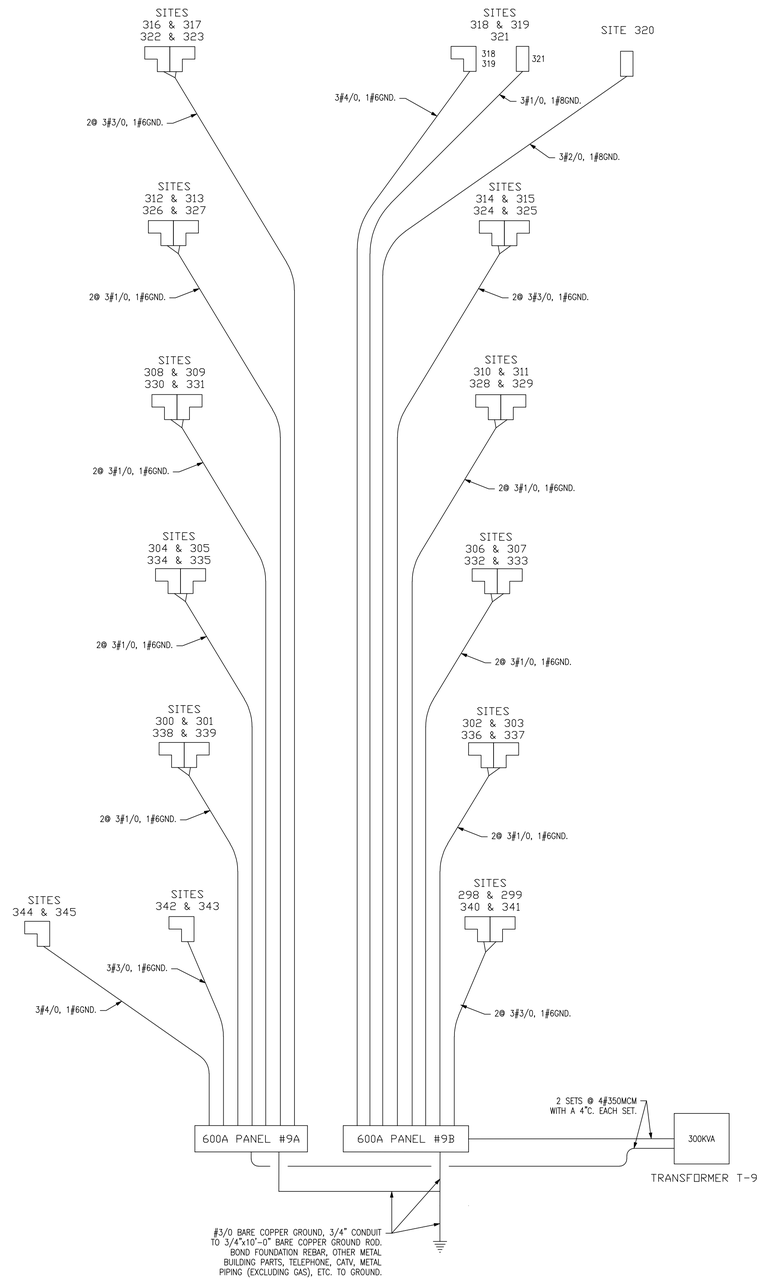


1 E5 **ELECTRIC RISER DIAGRAM**
SCALE: NO SCALE

2 ENTIRE SHEET WAS REVISED.



2 E5 **ELECTRIC RISER DIAGRAM**
SCALE: NO SCALE



3 E5 **ELECTRIC RISER DIAGRAM**
SCALE: NO SCALE

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STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

FREDDIE L. MALICOAT - ENGINEER
MO# E-16897
STATE OF MISSOURI FREDDIE L. MALICOAT NUMBER E-16897 REGISTERED PROFESSIONAL ENGINEER
10-21-25

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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND
CONSTRUCTION PLANS

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
FACILITY #

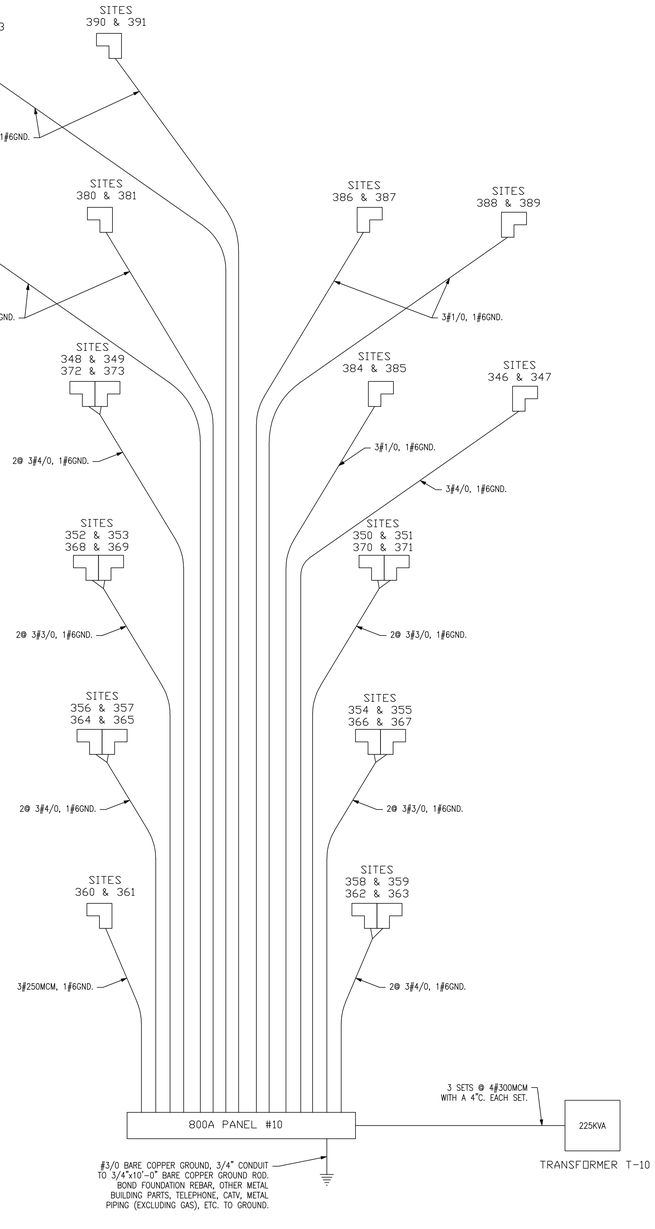
REVISION: 1
DATE: 09/05/2025
REVISION: 2
DATE: 10/21/2025
REVISION:
DATE:
ISSUE DATE:

CAD DWG FILE: E-PLN-05
DRAWN BY: JDB
CHECKED BY: FM
DESIGNED BY: FM

SHEET TITLE:
ELECTRIC RISER DIAGRAMS

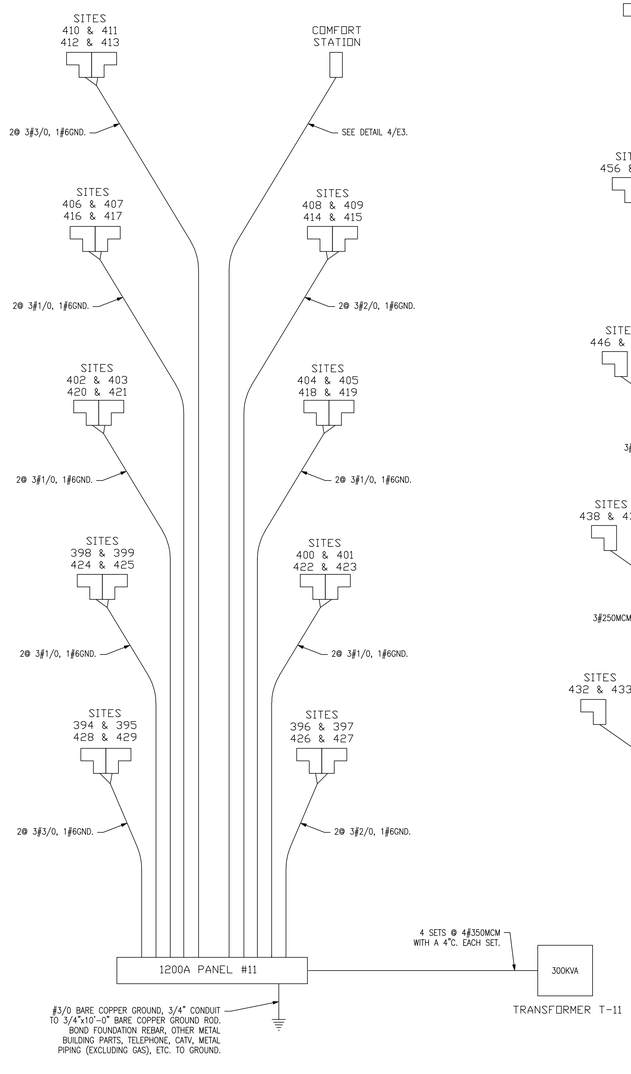
SHEET NUMBER:
E5

NOTE:
1. REFER TO PANEL SCHEDULES ON SHEETS E9-E11 FOR BREAKER SIZES.
2. REFER TO CAMPGROUND ELECTRIC SERVICES TABLE ON SHEET ME1 FOR RECOMMENDED MINIMUM WIRE SIZES AND LENGTHS.
3. WIRE SIZES ASSUME COPPER WIRE.
4. ALL TRANSFORMERS TO BE 15KV TO 208V, 3Ø TRANSFORMERS PER EVERGY REQUIREMENTS

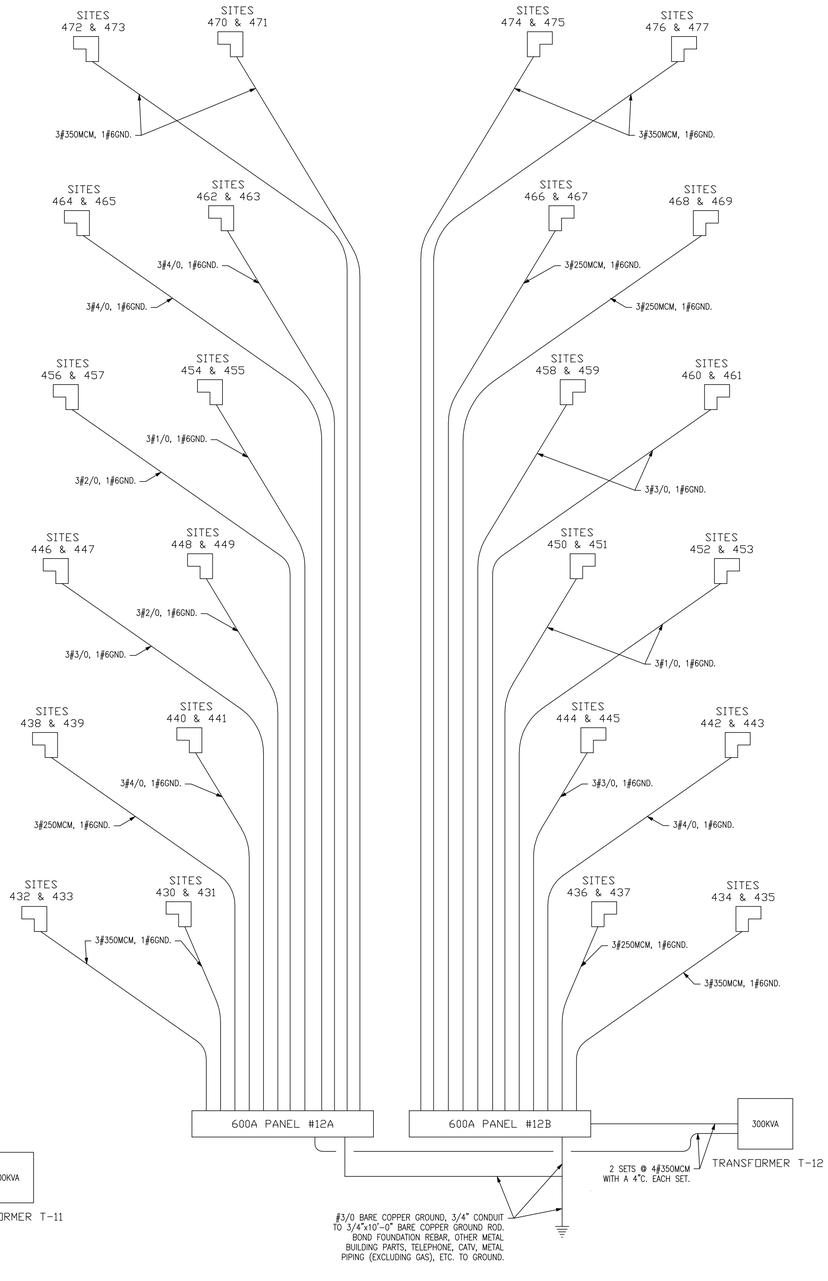


1 E6 **ELECTRIC RISER DIAGRAM**
SCALE: NO SCALE

ENTIRE SHEET WAS REVISED. (2)



2 E6 **ELECTRIC RISER DIAGRAM**
SCALE: NO SCALE



3 E6 **ELECTRIC RISER DIAGRAM**
SCALE: NO SCALE

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STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

FREDDIE L. MALICOAT - ENGINEER
MO# E-16897

STATE OF MISSOURI PROFESSIONAL ENGINEER
FREDDIE L. MALICOAT NUMBER E-16897 REGISTERED PROFESSIONAL
10-21-25

MALICOAT - WINSLOW ENGINEERS, INC.
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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND
CONSTRUCTION PLANS

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
FACILITY #

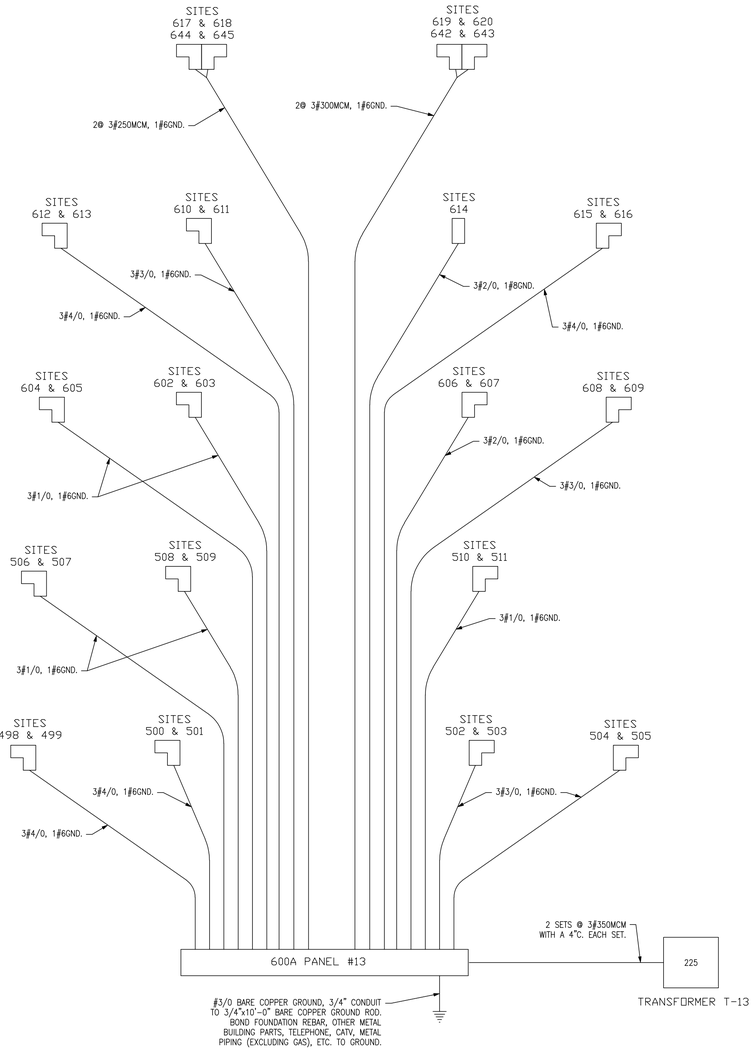
REVISION: 1
DATE: 09/05/2025
REVISION: 2
DATE: 10/21/2025
REVISION:
DATE:
ISSUE DATE:

CAD DWG FILE: E-PLN-06
DRAWN BY: JDB
CHECKED BY: FM
DESIGNED BY: FM

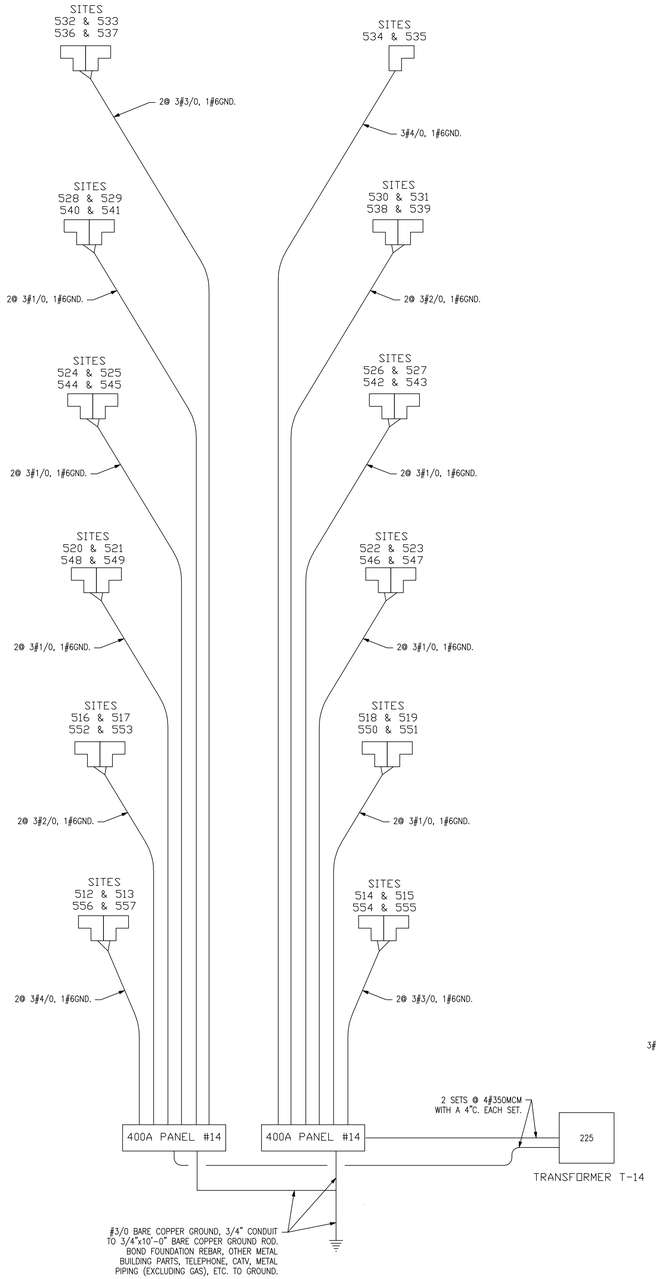
SHEET TITLE:
ELECTRIC RISER DIAGRAMS

SHEET NUMBER:
E6

NOTE:
1. REFER TO PANEL SCHEDULES ON SHEETS E9-E11 FOR BREAKER SIZES.
2. REFER TO CAMPGROUND ELECTRIC SERVICES TABLE ON SHEET ME1 FOR RECOMMENDED MINIMUM WIRE SIZES AND LENGTHS.
3. WIRE SIZES ASSUME COPPER WIRE.
4. ALL TRANSFORMERS TO BE 15KV TO 208V, 3Ø TRANSFORMERS PER EVERGY REQUIREMENTS

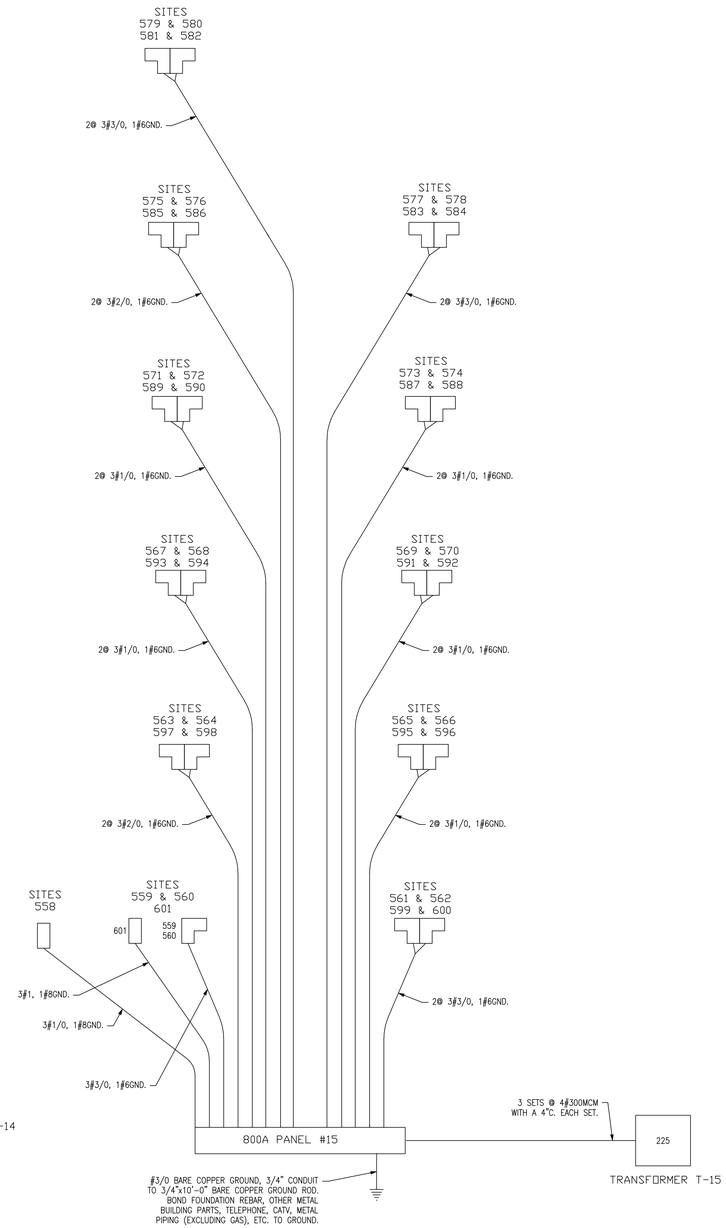


1 E7 ELECTRIC RISER DIAGRAM
SCALE: NO SCALE



2 E7 ELECTRIC RISER DIAGRAM
SCALE: NO SCALE

2 ENTIRE SHEET WAS REVISED.



3 E7 ELECTRIC RISER DIAGRAM
SCALE: NO SCALE

STATE OF MISSOURI
MIKE KEHOE,
GOVERNOR

FREDDIE L. MALICOAT - ENGINEER
MO# E-16897

STATE OF MISSOURI FREDDIE L. MALICOAT NUMBER E-16897 REGISTERED PROFESSIONAL ENGINEER
10-21-25

MALICOAT - WINSLOW ENGINEERS, INC.
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FREDDIE MALICOAT, P.E.

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

MISSOURI
STATE FAIRGROUNDS

NEW CAMPGROUND
CONSTRUCTION PLANS

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
FACILITY #

REVISION: 1
DATE: 09/05/2025
REVISION: 2
DATE: 10/21/2025
REVISION:
DATE:
ISSUE DATE:

CAD DWG FILE: E-PLN-07
DRAWN BY: JDB
CHECKED BY: FM
DESIGNED BY: FM

SHEET TITLE:
ELECTRIC RISER DIAGRAMS

SHEET NUMBER:
E7

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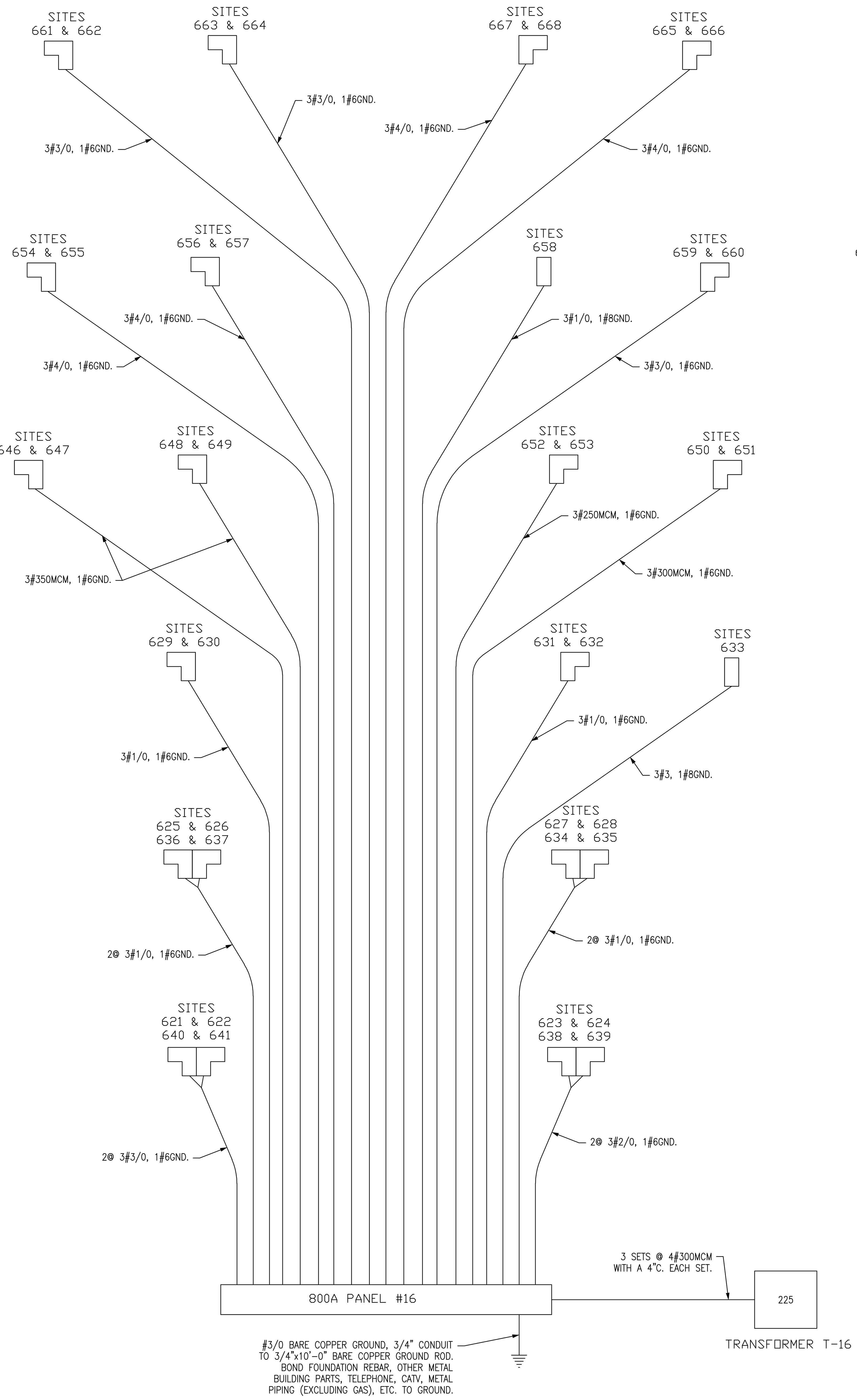
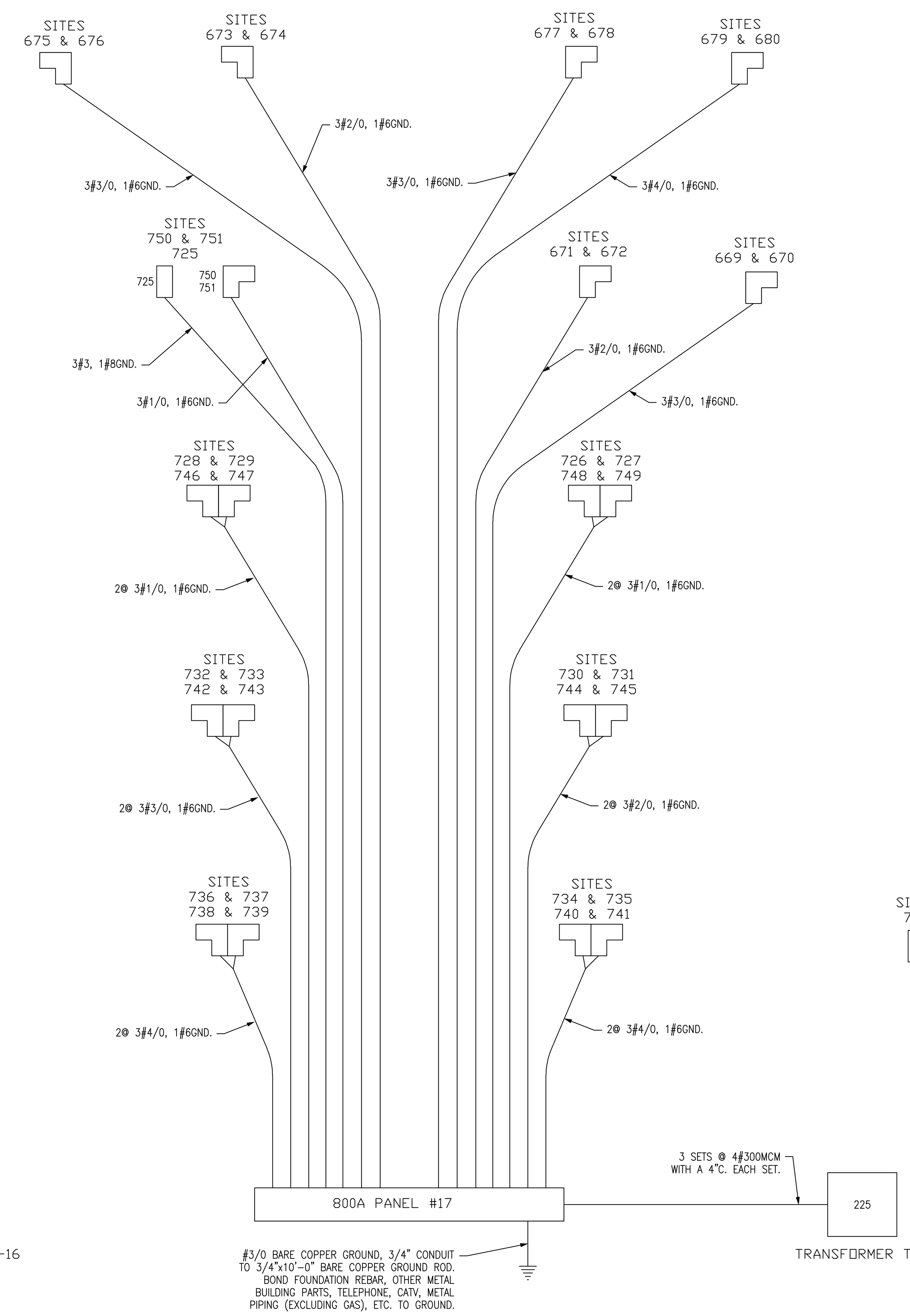
NOTE:
1. REFER TO PANEL SCHEDULES ON SHEETS E9–E11 FOR BREAKER SIZES.
2. REFER TO CAMPGROUND ELECTRIC SERVICES TABLE ON SHEET ME1 FOR RECOMMENDED MINIMUM WIRE SIZES AND LENGTHS.
3. WIRE SIZES ASSUME COPPER WIRE.
4. ALL TRANSFORMERS TO BE 15KV TO 208V, 3Ø TRANSFORMERS PER EVERGY REQUIREMENTS

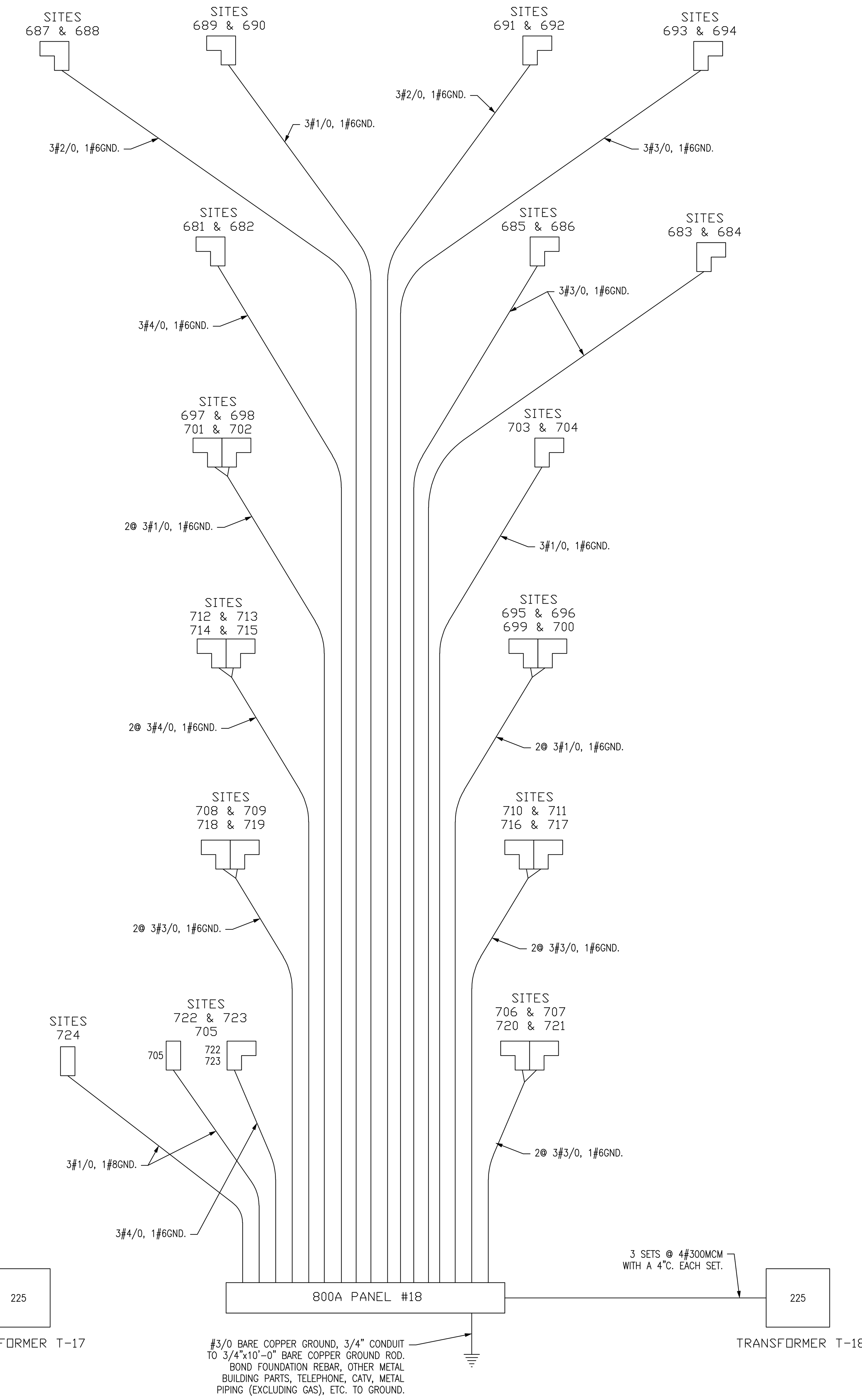
2 ENTIRE SHEET WAS REVISED.



1
E8
ELECTRIC RISER DIAGRAM
SCALE: NO SCALE



2
E8
ELECTRIC RISER DIAGRAM
SCALE: NO SCALE



3
E8
ELECTRIC RISER DIAGRAM
SCALE: NO SCALE

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STATE OF MISSOURI
MIKE KEHOE, GOVERNOR

FREDDIE L. MALICOAT - ENGINEER
MO# E-16897
STATE OF MISSOURI FREDDIE L. MALICOAT NUMBER E-16897 REGISTERED PROFESSIONAL ENGINEER
10-21-25

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MISSOURI STATE FAIRGROUNDS

NEW CAMPGROUND
CONSTRUCTION PLANS

MISSOURI
STATE FAIRGROUNDS
2503 W 16th STREET
SEDALIA, MO

PROJECT # F2307-01
SITE # 1501
FACILITY #

REVISION: 1
DATE: 09/05/2025
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DATE: 10/21/2025
REVISION:
DATE:
ISSUE DATE:

CAD DWG FILE: E-PLN-08
DRAWN BY: JDB
CHECKED BY: FM
DESIGNED BY: FM

SHEET TITLE:
ELECTRIC RISER DIAGRAMS

SHEET NUMBER:
E8