

## ADDENDUM NO. 1

TO: PLANS AND SPECIFICATIONS FOR STATE OF MISSOURI

Replace Switchgear, Power Plant & Maintenance Building  
Eastern Reception & Diagnostic Correctional Center  
Bonne Terre, Missouri  
PROJECT NO. C2330-01

Bid Opening Date: 1:30 PM, July 30, 2024 (Not Changed)

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

### SPECIFICATION CHANGES:

1. Section 015000 – Construction Facilities and Temporary Controls

- a. DELETE Section 2.2-B (Temporary Toilet). Site toilets may be used.

### DRAWING CHANGES:

1. Sheet E-00 – Electrical Symbols and Legend

- a. See attached revised sheet. Updates were made to the Maintenance Requirements section.

### GENERAL COMMENTS:

1. The Pre-Bid Meeting was held July 18, 2024. The Pre-Bid Meeting sign-in sheet is attached.
2. Please contact Paul Girouard: 573-751-4797, [Paul.Girouard@oa.mo.gov](mailto:Paul.Girouard@oa.mo.gov) for questions regarding bidding procedures, MBE/WBE/SDVE Goals, and other submittal requirements.
3. The deadline for technical questions was end of day on July 22, 2024.
4. Changes to, or clarification of, the Bid Documents are only made as issued in the Addenda.
5. All correspondence with respect to this project must include the State of Missouri project number as indicated above.
6. **All bids shall be submitted without additional terms and conditions, modification or reservation on the bid form with each space properly filled. Bids not on these forms will be rejected. Failure to do so will result in rejection of the bid.**
7. **MBE/WBE/SDVE participation requirements can be found in DIVISION 00. MBE/WBE/SDVE Goals: MBE 0%, WBE 0%, and SDVE 3%. NOTE: Only MBE/WBE firms certified by the State of Missouri Office of Equal Opportunity as of the date of bid opening, or SDVE(s) meeting the requirements of Section 34.074, RSMo and 1 CSR 30-5.010, can be used to satisfy the MBE/WBE/SDVE participation goals for this project. No other certifications from other Missouri certifying agencies will be accepted. If a bidder is unable to meet a participation goal, a Good Faith Effort Determination Form must be completed. Failure to complete this process will result in rejection of the bid.**

8. The contractor is responsible for tool inventory. One copy shall be in contractor storage and other will be handed over to the site.
9. The contractor is to provide temporary generator power when utility power is down per drawings.
10. The Owner will assist with finding lay down area.
11. The prime contractor will oversee the coordinating generator controls and medium voltage equipment.
12. The end user has first right to refuse existing MV circuit breakers that are being removed.
13. The contractor needs to exercise the LV / MV maintenance work on circuit breakers.
14. The contractor is to use existing equipment settings rather than perform a breaker study on new MV circuit breakers.

**ATTACHMENTS:**

1. Pre-Bid Meeting Sign-In Sheet
2. Sheet E-00 - Electrical Symbols and Legend

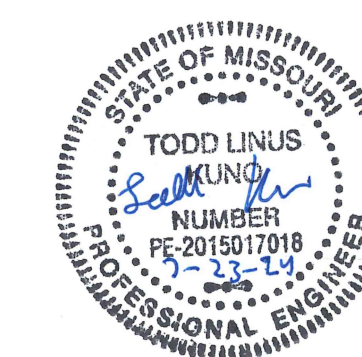
**July 24, 2024**

**END ADDENDUM NO. 1**









Date: 07-23-2024  
Exp. Date: 12-31-2025



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OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND CONSTRUCTION

DEPARTMENT OF  
CORRECTIONS

REPLACE SWITCHGEAR,  
POWER PLANT  
& MAINTENANCE BUILDING

EASTERN R&D  
CORRECTIONAL CENTER  
2727 HIGHWAY K,  
BONNE TERRE, MO 63628

PROJECT # C2330-01  
SITE # 7021  
FACILITY # 9327021024

REVISION: ADDENDUM 1  
DATE: 07/23/2024  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 05/24/2024

CAD DWG FILE: E-00  
DRAWN BY: LB  
CHECKED BY: GF  
DESIGNED BY: TLK

SHEET TITLE:

ELECTRICAL  
SYMBOLS AND  
LEGEND

SHEET NUMBER:

E-00

02 OF 08 SHEETS  
05/24/2024

## LEGEND AND ABBREVIATIONS (SEE SPECIFICATIONS & SCHEDULES)

NOTES: 1. ALL SYMBOLS AND ABBREVIATIONS ARE NOT NECESSARILY USED ON THESE PLANS.  
2. IN GENERAL, SYMBOLS SHOWN WITH LIGHT LINES DENOTE EXISTING WORK. SYMBOLS SHOWN WITH HEAVY LINES DENOTE NEW WORK.

### GENERAL NOTES

- MAKE ALL INSTALLATIONS IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).
- MOUNTING HEIGHTS INDICATED WITHIN PLANS AND SCHEDULES ARE DIMENSIONED TO THE CENTER LINE OF THE DEVICE, EQUIPMENT, ETC. UNLESS OTHERWISE NOTED.
- COORDINATE EXACT EQUIPMENT LOCATIONS WITH EXISTING CONDITIONS. EQUIPMENT LOCATIONS SHOWN ON ELECTRICAL PLANS ARE DIAGRAMMATICAL ONLY AND MIGHT NOT BE EXACT.
- REPAIR ALL OPENINGS MADE IN EXISTING WALLS, PARTITIONS, ETC TO ACCOMMODATE WORK OF THIS DISCIPLINE TO MATCH THE SURROUNDING CONDITIONS, USING WORKERS QUALIFIED IN THE APPROPRIATE TRADE. APPROPRIATELY GROUT OR SEAL ALL CONDUITS THROUGH WALLS.

### DEMOLITION NOTES

- REMOVE, CAP AND RELOCATE EQUIPMENT, DEVICES, CONDUIT, WIRE, ETC., AS SHOWN AND SPECIFIED ON DRAWINGS, AND AS MAY BECOME NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS. FAILURE TO VISIT THE SITE AND TO TAKE ALL EXISTING CONDITIONS INTO ACCOUNT WILL NOT ALLOW FOR CHANGES TO THE SCOPE OF WORK.
- FOR ALL WORK SHOWN TO BE REMOVED DURING THE DEMOLITION PHASE, REMOVE ALL WIRING AND CABLES BACK TO THEIR SOURCE UNLESS NOTED OTHERWISE TO BE RE-USED FOR NEW WORK. REMOVE ALL UNUSED CONDUIT THAT IS EXPOSED OR ABOVE ACCESSIBLE CEILINGS WHICH IS AFFECTED BY OR IS IN THE AREA OF THE DEMOLITION WORK.
- WHERE EQUIPMENT, DEVICES, CONDUIT, BOXES, AND SUPPORTING HARDWARE ARE REMOVED, PATCH AND FINISH THE SURFACE AS REQUIRED TO MATCH THE EXISTING, USING WORKERS QUALIFIED IN THE APPROPRIATE TRADE.
- TAKE ALL REMOVED MATERIALS FROM THE PROJECT SITE, EXCEPT FOR THOSE TO BE RELOCATED, STORED, OR TURNED OVER TO THE USING AGENCY.
- ACCEPTANCE OF CONTRACT MEANS INSTALLER ACCEPTS EXISTING CONDITIONS.
- PROVIDE A BLANK COVER PLATE WHERE A FLUSH DEVICE IS BEING REMOVED FROM WALLS THAT ARE TO REMAIN. MATCH THE COLOR, MATERIAL AND FIRE RATING TO THE EXISTING SURFACE IN THE ROOM OR SPACE.
- LEGALLY DISPOSE OF HAZARDOUS MATERIALS OR OTHER EQUIPMENT CONTAINING PCBs. COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS.
- PATCH OR FILL ANY EXPOSED GAP BETWEEN CONDUIT AND WALL WHERE NEW HOLES ARE DRILLED IN EXISTING WALLS.
- PAINT TO A MINIMUM OF 1 FOOT ON ALL SIDES OF A PATCH OR REMOVED SURFACE FOR CONDUIT PENETRATIONS.

### GENERATOR TESTING

- GENERATOR SHALL BE TESTED PRIOR TO DEMO OF SWITCHGEAR RELAY, PLCs AND CONTROLS. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THE AS FOUND CONDITIONS.
- CONTRACTOR RESPONSIBLE FOR OPERATIONAL LOAD BANK SYSTEM TESTING OF GENERATOR AFTER INSTALLATION OF NEW SWITCHGEAR RELAY, PLCs AND CONTROLS.

### DRAWING REFERENCES

- # PLAN DETAIL REFERENCE TITLE
- # KEYED NOTE DESIGNATION
- PLAN NORTH NORTH ARROW

### ABBREVIATIONS

- A.F.F : ABOVE FINISHED FLOOR  
C : CONDUIT  
E.C. : ELECTRICAL CONTRACTOR  
ER : EXISTING RELOCATED  
ETR : EXISTING TO REMAIN  
E.D. : GENERAL CONTRACTOR  
GND : GROUND  
TYP. : TYPICAL  
U.O.N. : UNLESS OTHERWISE NOTED

### LINE TYPE LEGEND

- EXISTING TO REMAIN OR NEW WORK BY OTHERS (LIGHT, SOLID LINE)
- NEW WORK BY THIS CONTRACTOR (DARK, SOLID LINE)
- EXISTING TO BE REMOVED BY THIS CONTRACTOR (DARK, DASHED LINE, DEMOLITION PLANS)
- 2-HOUR FIRE RATED WALL

### POWER EQUIPMENT

- PANELBOARD (SURFACE)
- PANELBOARD (FLUSH)

### MAINTENANCE REQUIREMENTS

1. Below is a reference list of NETA MTS Maintenance requirements. Refer to NETA standards for full detailed list.
- 1.1. LV Switch
- 1.1.1. Mechanical-
- 1.1.1.1. Inspect Physical, anchorage, alignment, grounding.
- 1.1.1.2. Perform test before cleaning, clean unit
- 1.1.1.3. Verify mechanical operation.
- 1.1.1.4. Verify fuses size and type and support.
- 1.1.1.5. Verify bolt connection.
- 1.1.1.6. Infrared Scan
- 1.1.1.7. Verify operation and sequencing of interlocking.
- 1.1.1.8. Verify barrier.
- 1.1.1.9. Verify correct operation.
- 1.1.1.10. Exercise Device
- 1.1.1.11. Lubrication on moving current carrying.
- 1.1.1.12. Perform as left test.
- 1.1.2. Electrical
- 1.1.2.1. Perform resistance ohm test.
- 1.1.2.2. Measure contact resistance across each switchblade and fuse holder
- 1.1.2.3. Insulation-resistance test
- 1.1.2.4. Ground-fault test
- 1.2. LV Molded / Insulated Case CB
- 1.2.1. Mechanical-
- 1.2.1.1. Test before cleaning
- 1.2.1.2. Clean unit
- 1.2.1.3. Test operation
- 1.2.1.4. Exercise Device
- 1.2.1.5. Verify bolt connections.
- 1.2.1.6. Infrared Scan
- 1.2.1.7. Inspect for accessible contacts.
- 1.2.1.8. Verify meets study settings.
- 1.2.1.9. Perform as left test.
- 1.2.2. Electrical -
- 1.2.2.1. Test resistance
- 1.3. LV Power CB
- 1.3.1. Mechanical-
- 1.3.1.1. Test before cleaning
- 1.3.1.2. Clean unit
- 1.3.1.3. Inspect are chutes and wear.
- 1.3.1.4. Test operation
- 1.3.1.5. Exercise Device
- 1.3.1.6. Verify bolt lug connections.
- 1.3.1.7. Infrared Scan
- 1.3.1.8. Inspect for accessible contacts.
- 1.3.1.9. Verify fit, alignment, racking mechanism.
- 1.3.1.10. Lubrication
- 1.3.1.11. Verify meets study settings.
- 1.3.1.12. Perform as left test.
- 1.3.2. Electrical -
- 1.3.2.1. Test resistance
- 1.3.2.2. Test trip pickup with current injection
- 1.4. MV Switches
- 1.4.1. Mechanical-
- 1.4.1.1. Inspect Physical, anchorage, alignment, grounding.
- 1.4.1.2. Perform test before cleaning, clean unit
- 1.4.1.3. Verify mechanical operation.
- 1.4.1.4. Verify fuses size and type and support.
- 1.4.1.5. Verify bolt connection.
- 1.4.1.6. Infrared Scan
- 1.4.1.7. Verify operation and sequencing of interlocking.
- 1.4.1.8. Verify barrier.
- 1.4.1.9. Verify correct operation.
- 1.4.1.10. Verify correct operation.
- 1.4.1.11. Exercise Device
- 1.4.1.12. Lubrication on moving current carrying.
- 1.4.1.13. Perform as left test.
- 1.4.2. Electrical
- 1.4.2.1. Perform resistance ohm test.
- 1.4.2.2. Measure contact resistance across each switchblade and fuse holder
- 1.4.2.3. Insulation-resistance test
- 1.4.2.4. Ground-fault test
- 1.5. MV power CB (Vacuum also)
- 1.5.1. Mechanical-
- 1.5.1.1. Inspect Physical, anchorage, alignment, grounding.
- 1.5.1.2. Perform test before cleaning, clean unit
- 1.5.1.3. Verify mechanical operation.
- 1.5.1.4. Verify fuses size and type and support.
- 1.5.1.5. Verify bolt connection.
- 1.5.1.6. Infrared Scan
- 1.5.1.7. Verify barrier.
- 1.5.1.8. Verify operation and sequencing of interlocking.
- 1.5.1.9. Verify barrier.
- 1.5.1.10. Verify operation.
- 1.5.1.11. Exercise Device
- 1.5.1.12. Lubrication on moving current carrying.
- 1.5.1.13. Perform as left test.
- 1.5.1.14. Perform as left test.
- 1.5.2. Electrical -
- 1.5.2.1. Perform resistance ohm test.
- 1.5.2.2. Measure contact resistance across each switchblade and fuse holder
- 1.5.2.3. Insulation-resistance test
- 1.5.2.4. Ground-fault test
- 1.6. MV Relay
- 1.6.1. Mechanical-
- 1.6.1.1. Inspect Physical, anchorage, alignment, grounding.
- 1.6.1.2. Perform test before cleaning, clean unit
- 1.6.1.3. Verify mechanical operation.
- 1.6.1.4. Inspect relay case.
- 1.6.1.5. Inspect relay.
- 1.6.1.6. Perform as left test.
- 1.6.1.7. Perform as left test.
- 1.6.2. Electrical -
- 1.6.2.1. Determine pickup and dropout.
- 1.6.2.2. Inspect lights.
- 1.7. Motors and Starters
- 1.7.1. Mechanical-
- 1.7.1.1. Inspect physical and mechanical condition.
- 1.7.1.2. Clean unit
- 1.7.1.3. Verify bolt/lug connections.
- 1.7.1.4. Infrared Scan
- 1.7.1.5. Verify motor running protections.
- 1.7.1.6. Perform as left test.
- 1.7.1.7. Exercise Device
- 1.7.2. Electrical -
- 1.7.2.1. Low-Resistance ohmmeter
- 1.7.2.2. Insulation resistance test
- 1.7.2.3. Test trip / protection.