September 13, 2013

Office of the Director of Purchasing:

Shelly Albert
Purchasing Officer

ADDENDUM NO. 1
ELECTRICAL DISTRIBUTION SYSTEM UPGRADE
ON THE EDWARDSVILLE CAMPUS OF
SOUTHERN ILLINOIS UNIVERSITY EDWARDSVILLE
KNOWN AS "QUOTATION NO. 8929"

This addendum forms a part of the bidding and contract documents and modifies the bidding documents. Acknowledge receipt of this addendum in space provided on Bid Form. FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.

JOINT VENTURE:

Bids will be accepted from project-specific prequalified contractors for this project only. This includes any bids submitted as a joint venture. Both companies must be previously prequalified for this project, RFQ 8929.

QUESTIONS/ANSWERS:

Q1: We request a 2 week bid extension.
A1: A bid extension will not be issued for this project.

Q2: Note 1 under Conduit Cleaning Procedure. We need more information on what "Coordinate water discharge with the using agency.
A2: This statement requires that the contractor verify with SIUE prior to discharging the evacuated water from manholes into the streets. It is anticipated that this will be communicated and a general process be given during the preconstruction meeting.

Q3: Are any of the transformers that contain PCB that are to be removed currently leaking.
A3: At this time there are no PCB transformers that are known to be leaking.

Q4: Spec. 00800–37 3.4.1.1 Where are the office trailers to be located?
A4: The project trailers will be located near the H&R Plant.

Q5: Spec. 020500–2 3.3A We need a clarification on "clean and repair existing materials and equipment that remain or are to be reused" What equipment will need cleaned and what are the repairs?
A5: No equipment is to be cleaned and reused within this project. This paragraph has been removed.

Q6: Spec. 260126-2 3.4A Requires an independent agency to perform DC high potential testing. We routinely perform these test for our industrial and utility customers. May we be allowed to perform these test especially in light of the limited outage durations?
A6: An independent testing agency shall be utilized as indicated.

Q7: Spec. 260536-2 2.4A Please verify the cable tray is to be stainless steel.
A7: New cable tray installed under this project shall be stainless steel as specified.

Q8: Spec. 261200-4 3.2A If we are to furnish an oil containment system, please provide the specifications.
A8: An oil containment system is not required.

Q9: Spec. 261200-5 3.6A There are 8 transformers listed as substation/vault type. How many of these should we include in our proposal to perform the Voltage Monitoring and Adjustment?
A9: The transformer follow-up service section will be removed in its entirety. Testing/adjust shall be performed at the primary taps so that the secondary voltage at each service entrance is above and within 2 percent of the rated voltage at each transformer.

Q10: Spec. 312022 Please verify all spoils are to be removed from site.
A10: All spoils from excavation and backfill shall be removed from the site.

Q11: E2.9 Keyed Note 3. Is the future 5kV Switchgear in the scope of this project?
A11: The 5kV switchgear is not in the scope of this project.

Q12: Please provide the size of conductor, AL or CU, and type of insulation on the existing cables we are to splice onto.
A12: Table has been added indicating the existing cable information.

Q13: Please provide the size of conductor, AL or CU, and type of insulation of the existing cables we are to remove and dispose of.
A13: Table has been added indicating the existing cable information.

Q14: Dwg. E3.1near PMS-14.1 there is a keyed note 13 for Fault Indicators but no fault indicators quantity or designation is shown.
A14: This keyed note was inadvertently located at this location and has been removed. Fault indicators are not required to be installed at this location.

Q15: Please provide the location of where the lay down and marshaling area is to be located.
A15: The lay down area will be located near the H&R Plant.

Q16: Spec. 260500-3 3.3G Please provide the power requirements for the University Greenhouse and for the Sewage Lift Stations. We also need their physical locations from where they are powered.
A16: The University Greenhouse is located North of Science Building #2 and is fed 120/208V 200A from an electrical room in the basement of Science Building #1.
The Sewage Lift Station is located near the intersection of Circle and Residence Drive, west of Woodland Hall. The lift station is fed 480V 60A from the basement electrical room in Woodland Hall

Q17: Spec. 017329-2 3.3D Which of the manholes and/or vaults will the core drilling need to be performed at night or on the weekend? Which ones will require x-raying?
A17: Only one location will require the core drilling to be performed at night or on the weekend, this location is Peck Hall.
No x-raying will be required to core drill manhole and vault walls.

SPECIFICATIONS:

1. Section 00800 – Supplemental General Conditions

    a. **ADD** pages 57 and 58. See attached section 00800 pages 57 and 58.

2. Section 01 73 29 – Cutting and Patching

    a. **REVISE** paragraph 3.3.D to read: "*All core drilling to Peck Hall building and vault walls:"*
    b. **REMOVE** paragraph 3.3.D.2.

3. Section 02 05 00 - Demolition

    a. **REMOVE** paragraph 3.3.A.
    b. **REVISE** PARAGRAPH 3.3.G to read: "*The University greenhouse and sewage lift stations will require temporary emergency generators during power outages. The Electrical Contractor is responsible for providing the generators, terminations, and fuel. The University Greenhouse is located North of Science Building #2 and is fed 120/208V 200A from an electrical room in the basement of Science Building #1.The Sewage Lift Station is located near the intersection of Circle and Residence Drive, west of Woodland Hall. The lift station is fed 480V 60A from the basement electrical room in Woodland Hall*"

4. Section 02 05 43 – Underground Ducts and Raceways for Electrical Systems
    a. **REMOVE** paragraph 2.2.F.
    b. **REVISE** paragraph 3.2.K to read: "*Grout and seal penetrations with hydraulic cement or other approved material for full circumference of conduit and depth of structural penetration.*
    c. **ADD** paragraph 3.2.O: "*Utilize fiberglass fiberglass elbows for all 90 bends"*

5. Section 26 12 00

    a. **REVISE** paragraph 3.2A.to read: "*Install transformer on concrete vault as identified on the drawings."*
    b. **REVISE** paragraph 3.2A.1 to read: "*Anchor transformer to concrete bases according to manufacturer's written instructions*."
    c. **REVISE** paragraph 3.2A.2to read: "*Construct concrete bases of dimensions indicated, but not less than 4 inches (100mm) larger in both directions than supported unit and 4 inches (100mm) high."*
    d. **REPLACE** paragraph 3.6. New paragraph to read:
    "*3.6 ADJUSTING*

        A. Adjust primary taps so that secondary voltage at each service entrance is above and within 2 percent of rated voltage."

DRAWINGS:

1. Sheet E0.1 ELECTRICAL DETAILS

    a. **REVISE** detail #1, see attached sketch E0.1(1).
    b. **REVISE** detail #1, see attached sketch E0.1(2).
    c. **REVISE** detail #1, see attached sketch E0.1(3).
    d. **REVISE** detail #1, see attached sketches E0.1(4) and E0.1(5).

2. Sheet E1.4 ENLARGED ELECTRICAL SITE PLAN

    a. **ADD** outline of laydown and project trailer location, see attached sketch E1.4(1).
    b. **ADD** Keyed Note #11, see attached sketch E1.4(1).

3. Sheets E1.6-E1.11 GENERAL NOTES

    a. **REVISE** General Note #1 to read; "*INDICATES NEW 15KV 133% INSULATED EPR COPPER CABLE TO BE PROVIDED WITHIN NEW DUCTBANK AS INDICATED. SEE THE ONE-LINE DIAGRAM ON SHEETS E3.1-E3.3 FOR ADDITIONAL INFORMATION. "A" INDICATES PHASE"*
    b. **ADD** General Note #10: "*NEW DUCTBANKS THROUGHOUT COUGAR VILLAGE SHALL CONSIST OF 4" CONDUITS UNLESS NOTED OTHERWISE.*

4. Sheet E2.9 ENLARGED ELECTRICAL SITE PLAN – HEATING AND REFRIGERATION PLANT

    a. **REVISE** Keyed Note #3 to say: "*FUTURE METAL CLAD 5KV SWITCHGEAR."*

5. Sheet E3.0 ELECTRICAL ONE-LINE DIAGRAM - EXISTING

    a. **REVISE** line type to cables identified as 621 and 622 from MH14.1 to MH14.1.5 and from MH14.1.5 to MH14.2 as existing to remain.
    b. **ADD** Keyed Note #11 to read: "*EXISTING DIRECT BURIED DISCONNECTED UNDERGROUND CABLES WITHIN COUGAR VILLAGE SHALL BE ABANDONED IN PLACE.*
    c. **ADD** Keyed Note #11 tag point to the outline of Cougar Village.
    d. **ADD** the EXISTING CABLE INFORMATION Table to the sheet. See that attached table, EXISTING CABLE INFORMATION.

6. Sheet E3.1 ELECTRICAL ONE-LINE DIAGRAM – NEW

    a. **REVISE** the line type to cables from MH14.1 to MH14.15 to MH14.2 as existing to remain, see sketch E3.1(1).
    b. **ADD** Keyed Note #15, see sketch E3.1(1).
    c. **REVISE** PRIMARY FEEDER SCHEDULE – COPPER, see sketch E3.1(2).

7. Sheet E3.2 ELECTRICAL ONE-LINE DIAGRAM – NEW

    a. **REVISE** PRIMARY FEEDER SCHEDULE – COPPER, see sketch E3.1(2).

8. Sheet E3.3 ELECTRICAL ONE-LINE DIAGRAM – NEW

    a. **REVISE** PRIMARY FEEDER SCHEDULE – COPPER, see sketch E3.1(2).
    b. **REVISE** the feeder designation from PMS-CV400 to JECV400A to *K*.
    c. **REVISE** the feeder designation from PMS-CV500 to JECV500SL to *K*.
    d. **REVISE** the feeder designation from PMS-CV500 to JECV500CB to *K*.
    e. **REVISE** the feeder designation from JECV500CB to TCV37 to *K*.
    f. **REVISE** the feeder designation from JECV500CB to JECV500C to *K*.

Addendum #1 consists of:

5 Pages of Text
2 Pages of 00800: 00800-57 and 00800-58
8 Drawings: E0.1(1), E0.1(2), E0.1(3), E0.1(4), E0.1(5), E1.4(1), E3.1(1), E3.1(2)
3 Pages Existing Cable Information Table

RETURN ONE SIGNED COPY TOGETHER WITH YOUR PROPOSAL

Addendum No. 1 is hereby acknowledged.

Name of Bidder: _____

By: _____ Title: _____

Address: _____

Telephone: _____ Date: _____

designated portion thereof, any of the Contractor's Work is found to be not in accordance with the requirements of the Contract Documents, it shall correct the Work promptly after receipt of written notice from the Owner to do so unless the Owner has previously given it a written acceptance of such condition. This period of one year shall be extended with respect to portions of Work first performed after Substantial Completion by the period of time between Substantial Completion and the actual performance of Contractor's Work. This obligation shall survive acceptance of the Work under the Contract and termination of the Contractor.

This Warranty shall be in addition to the terms of any other Warranty or longer period of obligation specified in the Contract Documents, any applicable special warranty required by the Contract Documents, or the terms of any general warranty and is not in lieu of any of them. This warranty shall not be construed to establish a period of limitation with respect to other obligations which the Contractor, Subcontractor or Sub-subcontractor might have under the Contract Documents and has no relationship to the time within which the obligation to comply with the Contract Documents may be sought to be enforced or any proceeding commenced.

ARTICLE 13 - MISCELLANEOUS PROVISIONS

13.4 Rights and Remedies

Subparagraph 13.4.1; Add to the end of the paragraph "notwithstanding the provisions of A201 Paragraph 4.5."

13.5 Tests and Inspections

Subparagraph 13.5.1; delete Subparagraph 13.5.1 in its entirety and substitute the following new subparagraph:

13.5.1 Inspections and tests required to establish compliance with the Contract Documents, except as may be otherwise provided in the Contract Documents, will be made by a prequalified, independent testing agency to be selected by the Owner and Engineer and employed by the Owner. The cost of the initial services of such agency will be paid by the Owner. When the initial tests indicate non-compliance with the Contract Documents any subsequent retesting occasioned by non-compliance with the Contract Documents shall be performed by the same agency and the cost thereof borne by the Contractor. Refer to Division 1 - General Requirements for additional provisions regarding inspections and tests. Inspection or Testing performed exclusively for the Contractor's convenience shall be the sole responsibility of the Contractor.

13.6 Interest

Subparagraph 13.6.1; Substitute "from the date payment is due at such rate as the parties may agree upon in writing or, in the absence thereof, at the legal rate prevailing from time to time at the place where the project is located" with "as provided in the State Prompt Payment Act, 30 ILCS 540".

ARTICLE 14 - TERMINATION OR SUSPENSION OF THE CONTRACT

Delete subparagraph 14.4.3 and substitute the following:

14.4.3 The Contractor will be paid for all work completed under the contract up to the date of termination. The Contractor will receive a percentage of the contract sum equal to the percentage of the work completed on the project prior to termination of the contract in the event the Owner and the Contractor cannot agree to the amount of payment due the Contractor.

END OF SUPPLEMENTARY CONDITIONS

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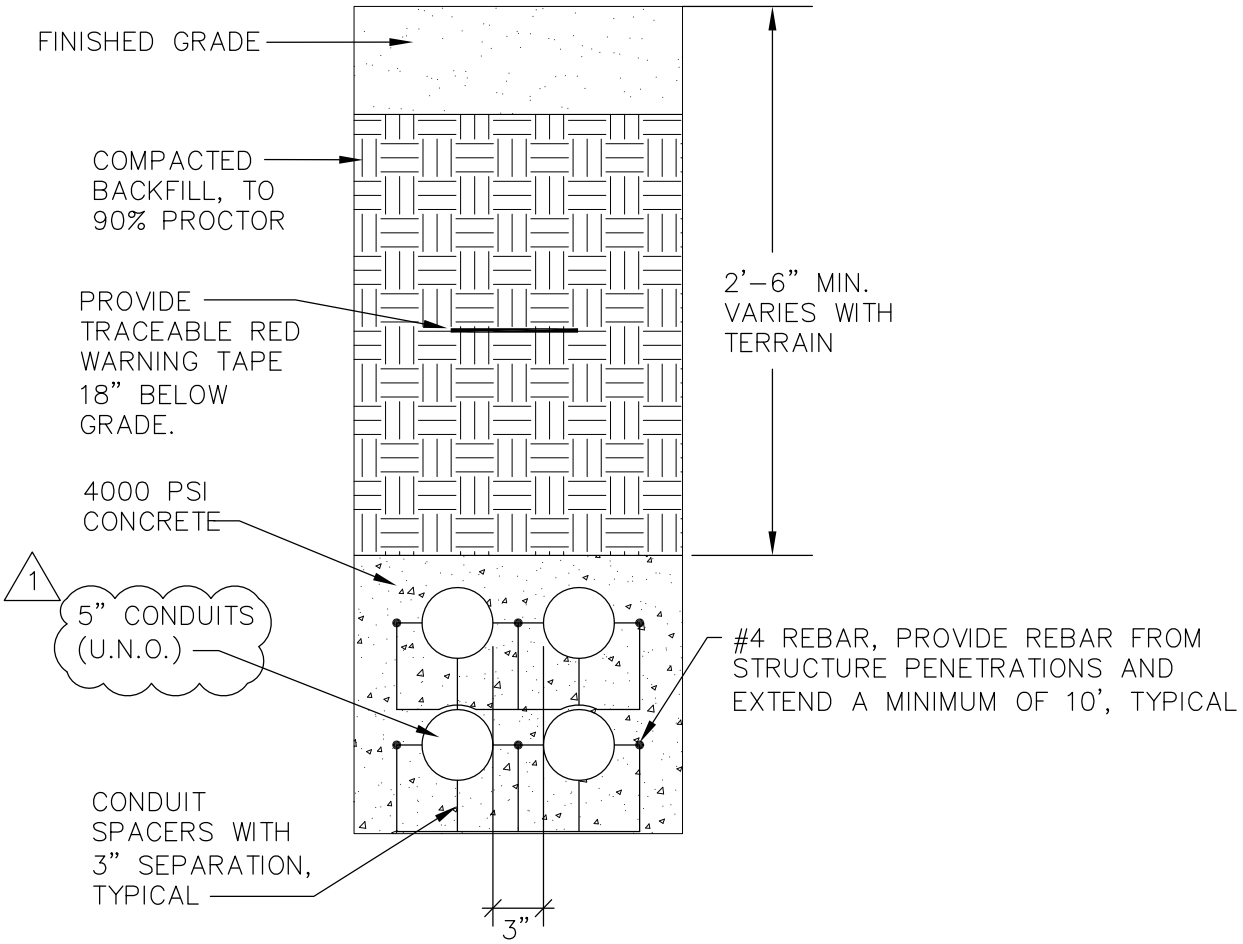

TITLE: DETAIL #1 – 4–CELL DUCTBANK	DRAWN BY: RJD	ATTACHMENT
PROJECT: SIUE ELECTRICAL DISTRIBUTION UPGRADE	CHECKED BY: RJD	E0.1 (1)
PROJECT No: 611–21E	DATE: 09/12/13	

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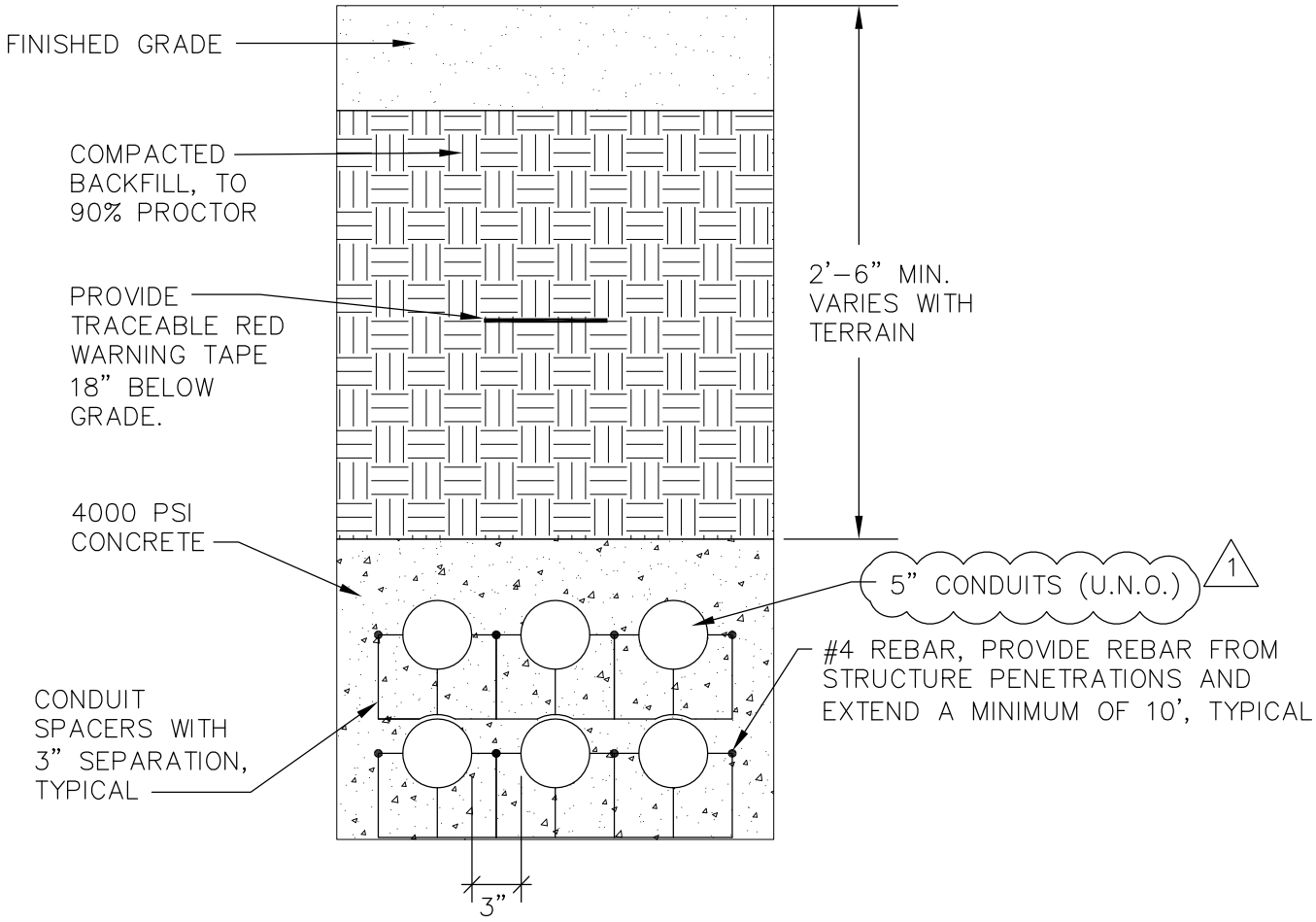

TITLE: DETAIL #2 – 6–CELL DUCTBANK	DRAWN BY: RJD	ATTACHMENT
PROJECT: SIUE ELECTRICAL DISTRIBUTION UPGRADE	CHECKED BY: RJD	E0.1 (2)
PROJECT No: 611–21E	DATE: 09/12/13	

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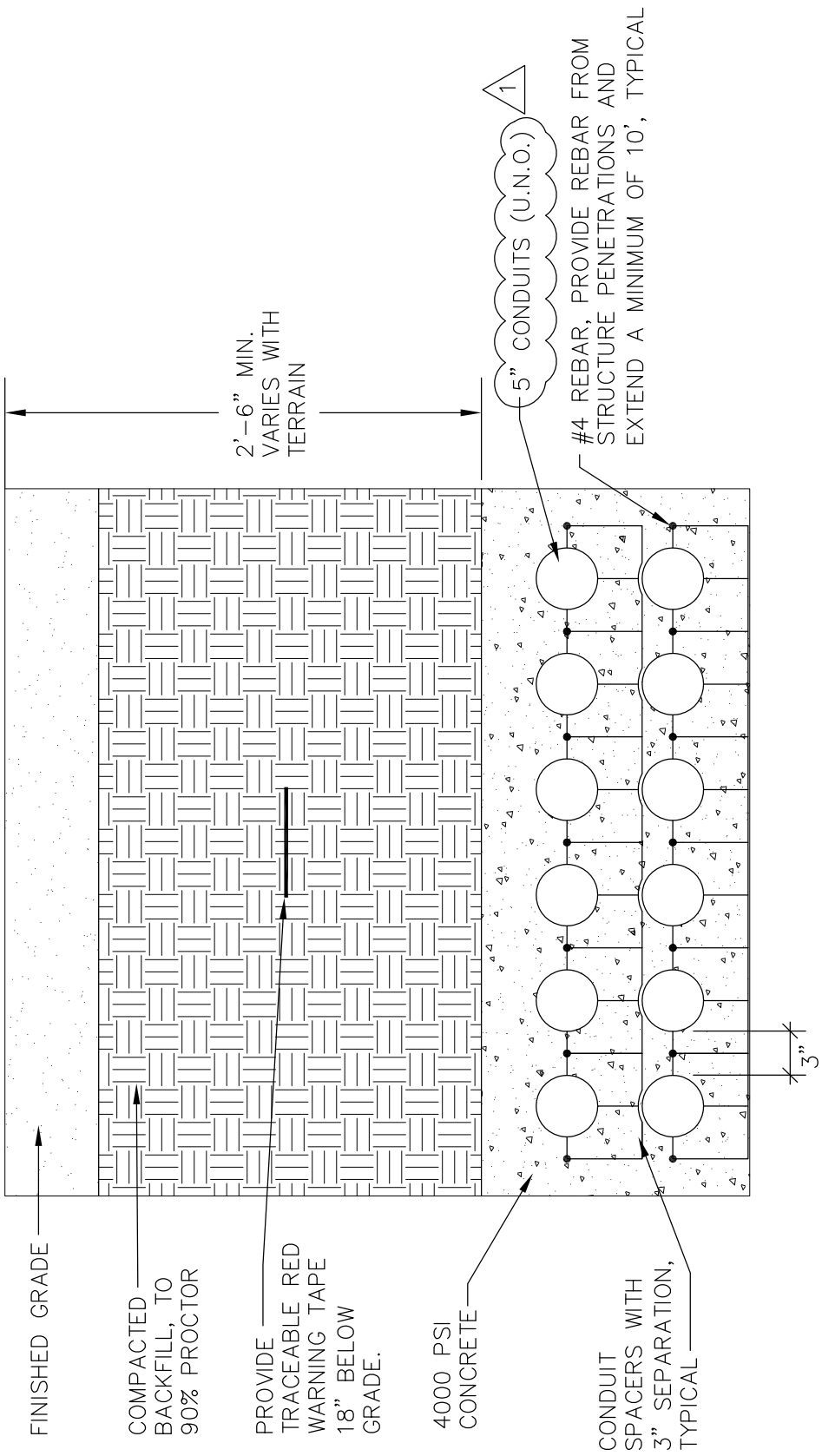

TITLE: DETAIL #3 – 12-CELL DUCTBANK	DRAWN BY: RJD	ATTACHMENT
PROJECT: SIUE ELECTRICAL DISTRIBUTION UPGRADE	CHECKED BY: RJD	E0.1(3)
PROJECT No: 611-21E	DATE: 09/12/13	

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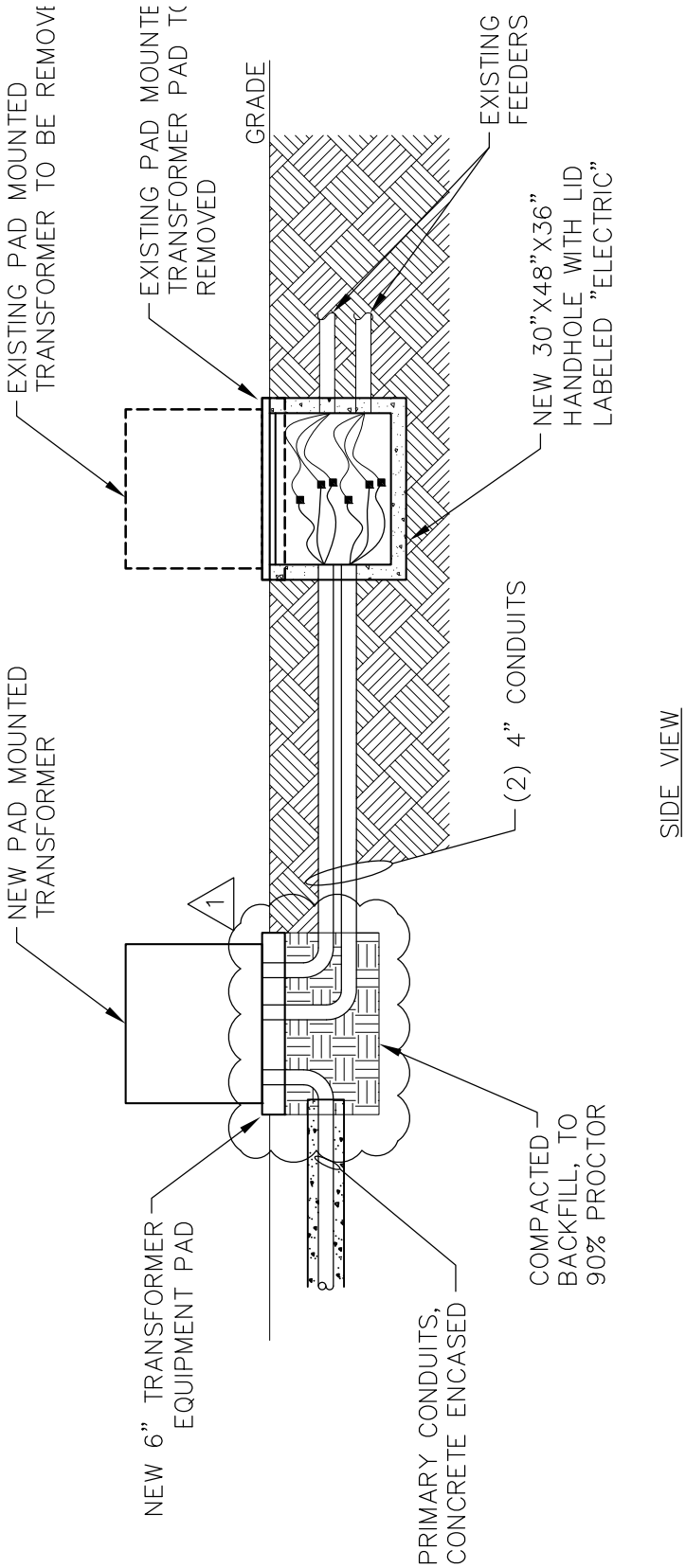

SIDE VIEW

TITLE: DETAIL #8 – CV XFORMER REPLACEMENT	DRAWN BY: RJD	ATTACHMENT
PROJECT: SIUE ELECTRICAL DISTRIBUTION UPGRADE	CHECKED BY: RJD	E0.1(4)
PROJECT No: 611–21E	DATE: 09/12/13	

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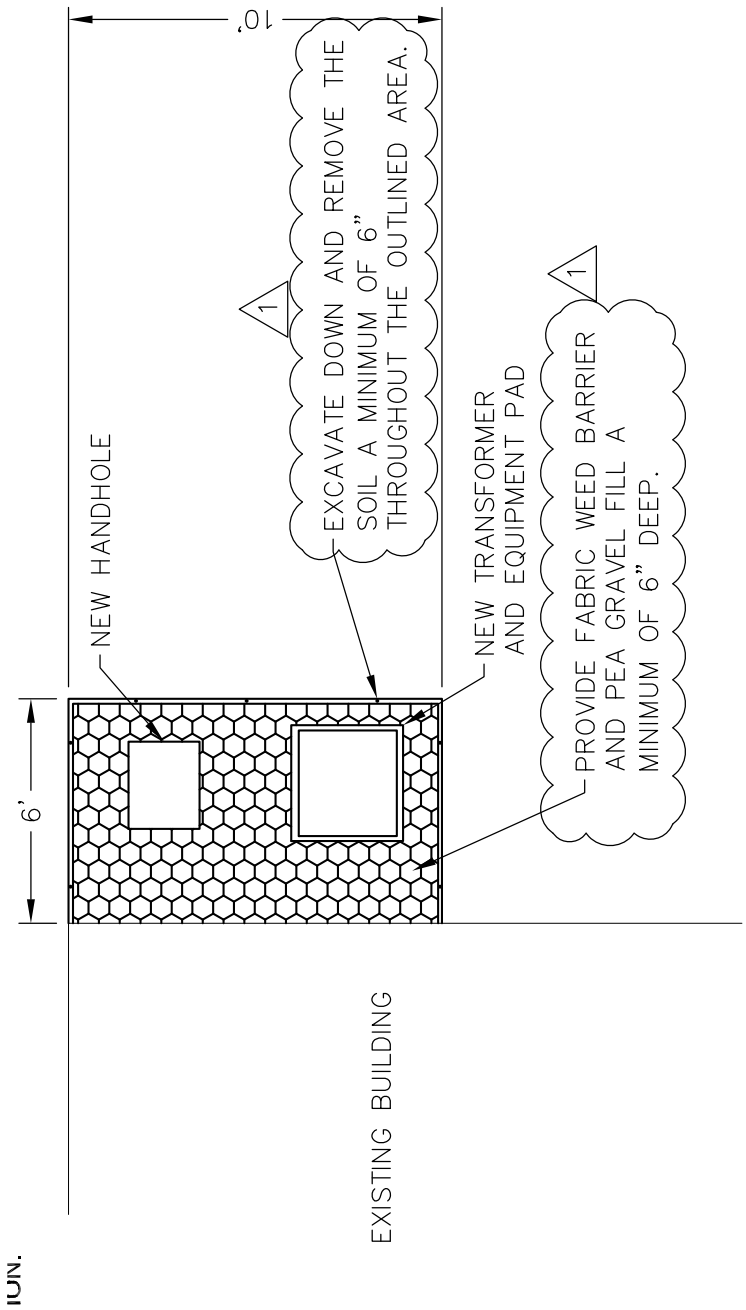

TITLE: DETAIL #8 – CV XFORMER REPLACEMENT	DRAWN BY: RJD	ATTACHMENT
PROJECT: SIUE ELECTRICAL DISTRIBUTION UPGRADE	CHECKED BY: RJD	E0.1 (5)
PROJECT No: 611–21E	DATE: 09/12/13	

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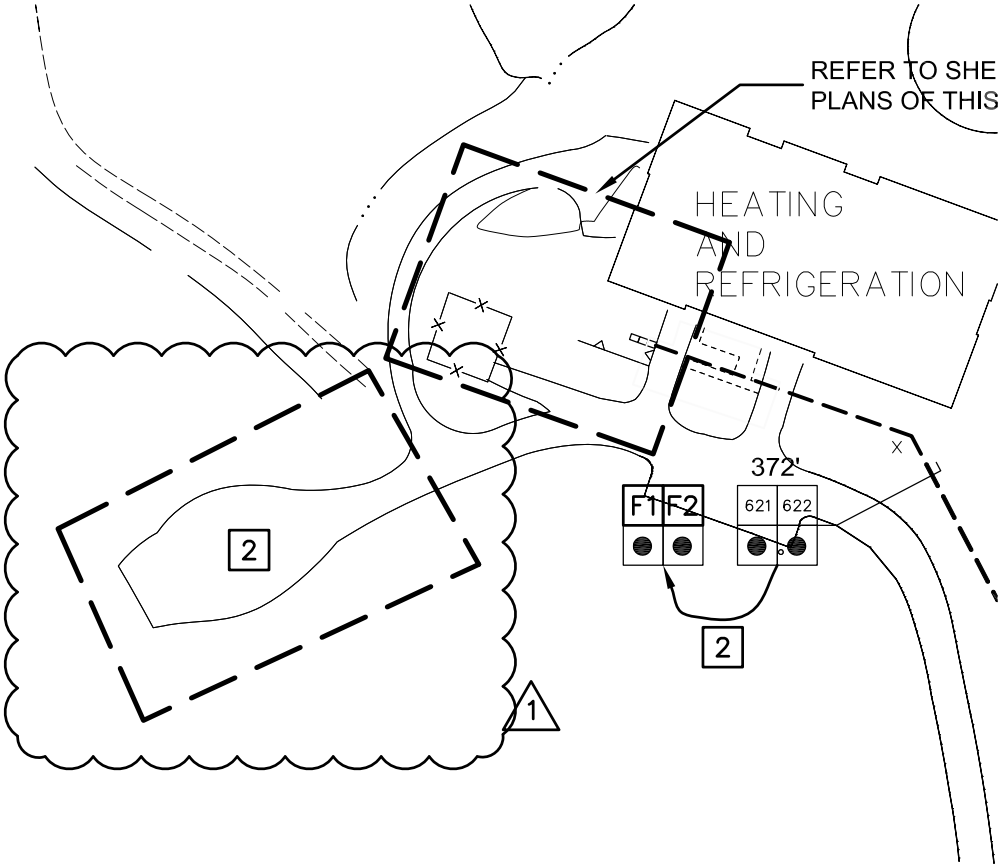

11 PROJECT TRAILERS, OFFICE TRAILER, AND LAY DOWN AREA SHALL BE LOCATED WITHIN THE OUTLINED AREA. NECESSARY POWER TO THE TRAILERS SHALL BE PROVIDED FROM THE H&R PLANT. THE POWER SHALL BE ROUTED OVERHEAD FROM THE TRAILER TO THE H&R PLANT AND SHALL BE ROUTED TO PREVENT INTERRUPTION TO THE UNIVERSITY. 1

TITLE: ENLARGED ELECTRICAL SITE PLAN	DRAWN BY: RJD	ATTACHMENT
PROJECT: SIUE ELECTRICAL DISTRIBUTION UPGRADE	CHECKED BY: RJD	E1.4 (1)
PROJECT No: 611-21E	DATE: 09/12/13	

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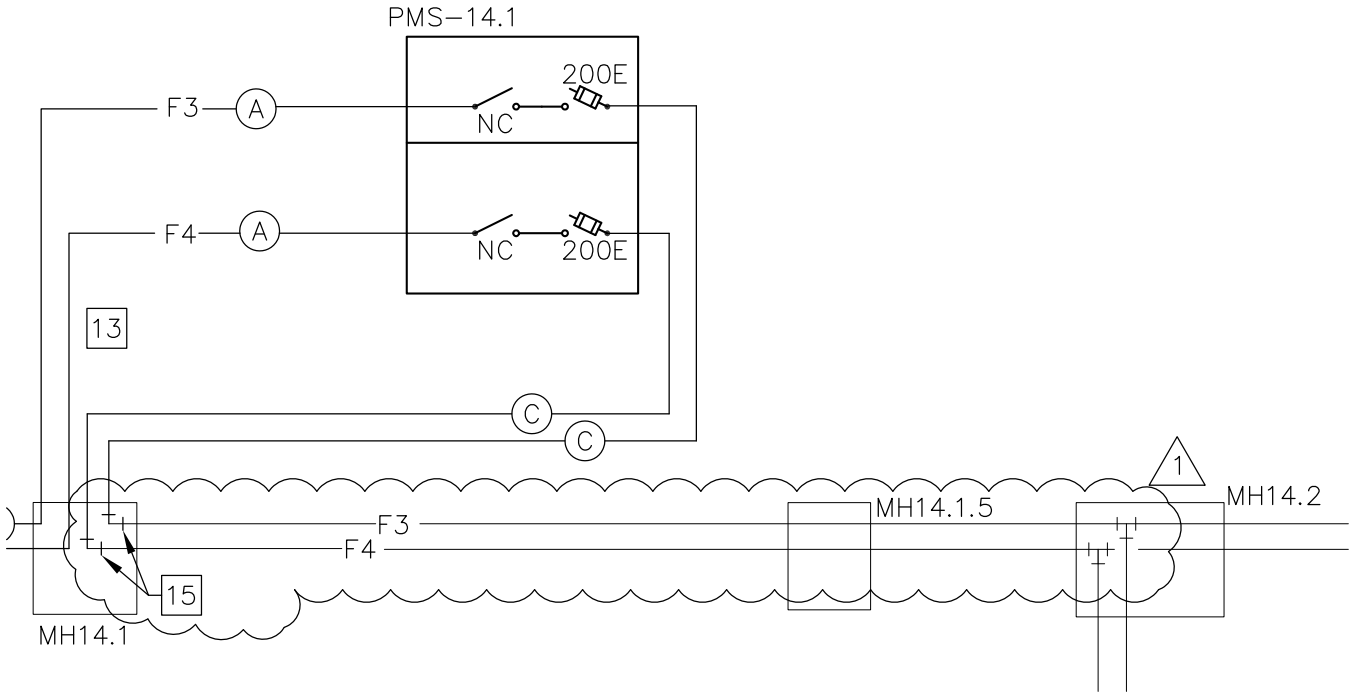

15 PROVIDE (3) WALL MOUNTED 2 POINT JUNCTION POINTS MOUNTED WITHIN THE MANHOLE AND PROVIDE (3) DEAD BREAK SEPARABLE MODULAR CONNECTORS TO THE NEW 15KV EPR CABLES (3) DEAD BREAK SEPARABLE MODULAR CONNECTIONS TO THE EXISTING CABLES AND LAND THE CONNECTORS TO THE APPROPRIATE JUNCTION POINTS. SEE THE ENLARGED MANHOLE DETAIL FOR THE JUNCTION POINT MOUNTING LOCATIONS. 1

TITLE: ELECTRICAL ONE-LINE DIAGRAM - NEW	DRAWN BY: RJD	ATTACHMENT
PROJECT: SIUE ELECTRICAL DISTRIBUTION UPGRADE	CHECKED BY: RJD	E3.1 (1)
PROJECT No: 611-21E	DATE: 09/12/13	

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(X) PRIMARY FEEDER SCHEDULE - COPPER

PLAN MARK	PHASE WIRE					
	NO.	SIZE	KV RATING	INS. LEVEL	TEMP RATING(°C)	NEUTRAL(CU)
A	3	500KCMIL	15KV	133%	105°C	1/3 CONCENTRIC
B	3	350KCMIL	15KV	133%	105°C	1/3 CONCENTRIC
C	3	3/0	15KV	133%	105°C	1/3 CONCENTRIC
D	3	1/0	15KV	133%	105°C	1/3 CONCENTRIC
E	3	#2	15KV	133%	105°C	~~1/3 CONCENTRIC~~
F	2	#2	15KV	133%	105°C	FULL CONCENTRIC
G	1	#2	15KV	133%	105°C	FULL CONCENTRIC
H	1	350KCMIL	15KV	133%	105°C	FULL CONCENTRIC
~~J~~	~~1~~	~~3/0~~	~~15KV~~	~~133%~~	~~105°C~~	FULL CONCENTRIC
K	3	#2	15KV	133%	105°C	FULL CONCENTRIC

1

TITLE: ELECTRICAL ONE-LINE DIAGRAM - NEW	DRAWN BY: RJD	ATTACHMENT
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PROJECT No: 611-21E	DATE: 09/12/13	

EXISTING CABLE INFORMATION							
FROM	TO	TYPE	INSULATION	CONCENTRIC NEUTRAL	SIZE	#SETS	INSTALLATION
SUBSTATION	MH21	AL	EPR	1/3	750kcmil	2	CONDUIT
MH21	MH21.1	AL	EPR	1/3	3/0	2	CONDUIT
MH21.1	MH21.2	AL	EPR	1/3	3/0	2	CONDUIT
MH21.2	T31	AL	EPR	1/3	3/0	1	DIRECT BURIED
MH21.2	MH21.3	AL	EPR	1/3	3/0	2	CONDUIT
MH21.3	Supporting Services	AL	EPR	1/3	#2	2	CONDUIT
MH21	MH20	AL	EPR	1/3	750kcmil	2	CONDUIT
MH20	MH19	AL	EPR	1/3	750kcmil	2	CONDUIT
MH19	Prairie Hall	AL	EPR	1/3	#2	2	CONDUIT
MH19	MH18	AL	EPR	1/3	750kcmil	2	CONDUIT
MH18	MH17	AL	EPR	1/3	750kcmil	2	CONDUIT
MH17	MH17.1	AL	EPR	1/3	3/0	2	CONDUIT
MH17.1	Woodland Hall	AL	EPR	1/3	3/0	2	CONDUIT
MH17	MH16	AL	EPR	1/3	750kcmil	2	CONDUIT
MH16	MH15	AL	EPR	1/3	750kcmil	2	CONDUIT
MH15	MH14	AL	EPR	1/3	750kcmil	2	CONDUIT
MH14	MH14.1	AL	EPR	1/3	3/0	2	CONDUIT
MH14.1	MH14.1.5	AL	EPR	1/3	4/0	2	CONDUIT
MH14.1.5	MH14.2	AL	EPR	1/3	4/0	2	CONDUIT
MH14.2	MH14.2.1	AL	EPR	1/3	3/0	2	CONDUIT
MH14.2.1	MH14.2.2	AL	EPR	1/3	3/0	2	CONDUIT
MH14.2.2	Engineering Building	AL	EPR	1/3	#2	2	CONDUIT
MH14.2.2	Art and Design	AL	EPR	1/3	#2	2	CONDUIT
MH14.2.2	MH14.2.3		EPR	1/3			CONDUIT
MH14.2	MH14.3	AL	EPR	1/3	3/0	2	CONDUIT
MH14.3	MH14.4	AL	EPR	1/3	3/0	2	CONDUIT
MH14.4	MH14.4.1	AL	EPR	1/3	3/0	2	CONDUIT
MH14.4.1	MH14.4.2	AL	EPR	1/3	3/0	2	CONDUIT
MH14.4.2	MH14.4.3	AL	EPR	1/3	3/0	2	CONDUIT
MH14.4.3	MH14.4.3.1	AL	EPR	1/3	3/0	2	CONDUIT
MH14.4.3.1	Art and Design - West	AL	EPR	1/3	#2	2	CONDUIT
MH14.4.3.1	MH14.4.3.2	AL	EPR	1/3	3/0	2	CONDUIT
MH14.4.3.2	Evergreen Hall	AL	EPR	1/3	#2	2	CONDUIT

MH14.4.3	MH14.4.4	AL	EPR	1/3	3/0	2	CONDUIT
MH14.4.4	MH14.4.5	AL	EPR	1/3	3/0	2	CONDUIT
MH14.4.5	Bluff Hall	AL	EPR	1/3	#2	2	CONDUIT
MH14	MH13	AL	EPR	1/3	750kcmil	2	CONDUIT
MH13	Campus Lighting	AL	EPR	1/3	#2	2	CONDUIT
Campus Lighting	MUC	AL	EPR	1/3	#2	2	CONDUIT
MH13	MH12	AL	EPR	1/3	750kcmil	2	CONDUIT
MH12	Rendleman Hall	AL	EPR	1/3	#2	2	CONDUIT
MH12	MH11	AL	EPR	1/3	750kcmil	2	CONDUIT
MH11	Founders Hall	AL	EPR	1/3	#2	2	CONDUIT
MH11	MH10	AL	EPR	1/3	750kcmil	2	CONDUIT
MH10	Peck Hall	AL	EPR	1/3	#2	2	CONDUIT
MH10	MH9	AL	EPR	1/3	750kcmil	2	CONDUIT
MH9	MH9.1	AL	EPR	1/3	3/0	2	CONDUIT
MH9.1	Lovejoy Library	AL	EPR	1/3	#2	2	CONDUIT
MH9.1	Science Building #1	AL	EPR	1/3	#2	2	CONDUIT
MH9.1	MH9.2	AL	EPR	1/3	#2	2	CONDUIT
MH9.2	Science Building #2	AL	EPR	1/3	#2	2	CONDUIT
MH9	MH8	AL	EPR	1/3	750kcmil	2	CONDUIT
MH8	Vadalabene	AL	EPR	1/3	#2	2	CONDUIT
MH8	MH8.1	AL	EPR	1/3	3/0	2	CONDUIT
MH8.1	Alumni Hall	AL	EPR	1/3	#2	2	CONDUIT
MH8.1	MH8.2	AL	EPR	1/3	3/0	2	CONDUIT
MH8.2	MH8.3	AL	EPR	1/3	3/0	1	CONDUIT
MH8.3	T27	AL	EPR	1/3	#2	1	DIRECT BURIED
MH8.3	T28	AL	EPR	1/3	#2	1	DIRECT BURIED
MH8.3	MH8.4	AL	EPR	1/3	3/0	1	CONDUIT
MH8.4	MH8.5	AL	EPR	1/3	3/0	1	CONDUIT
MH8.5	T29	AL	EPR	1/3	#2	1	DIRECT BURIED
T29	T30	AL	EPR	1/3	#2	1	DIRECT BURIED
MH8.5	MH8.6	AL	EPR	1/3	3/0	1	CONDUIT
MH8.6	MH8.7	AL	EPR	1/3	3/0	1	CONDUIT
MH8.7	MH8.8	AL	EPR	1/3	3/0	1	CONDUIT
MH8.8	MH8.9	AL	EPR	1/3	3/0	1	CONDUIT
MH8.9	MH8.10	AL	EPR	1/3	3/0	1	CONDUIT

MH8.10	PMS	AL	EPR	1/3	3/0	2	CONDUIT
MH8	MH7	AL	EPR	1/3	3/0	2	CONDUIT
MH7	MH6	AL	EPR	1/3	3/0	2	CONDUIT
MH6	MH5	AL	EPR	1/3	3/0	2	CONDUIT
MH5	MH4	AL	EPR	1/3	3/0	2	CONDUIT
MH4	MH3	AL	EPR	1/3	3/0	2	CONDUIT
MH3	MH3.1	AL	EPR	1/3	#2	1	CONDUIT
MH3.1	T22	AL	EPR	1/3	#2	1	DIRECT BURIED
MH3	MH2	AL	EPR	1/3	3/0	2	CONDUIT
MH2	T21	AL	EPR	1/3	#2	1	DIRECT BURIED
MH2	MH1	AL	EPR	1/3	3/0	2	CONDUIT
MH1	H&R Plant	AL	EPR	1/3	3/0	2	CONDUIT