



SHIEL SEXTON

ADDENDUM

Addendum No: 5

Project: UNC Charlotte East Village Infrastructure

State Project No: 13-11004-02

Date: October 27, 2020

By: Josh Craft, Shiel Sexton Co.

This addendum is issued and to be included as part of the bid documents. This Addendum includes:

Supplemental Information To Bidders:

1. Due to addendum 5 the bid day has been extended to **Tuesday Nov 3 at 1:30**
 - a. The bid opening will be at 2:00 in Conference Room 123A of the Facilities Operations & Parking Services building (#92 on the campus map – <http://facilities.uncc.edu/maps>).
 - b. Only one person per company can attend due to COVID-19 but a live ZOOM meeting invitation will be sent to all bidders for the opening.
 - c. All other instructions to bidders on the Notice to Bidders letter still applies.
2. Bid forms for each package have been updated:
 - a. Added acknowledgement for addendum 5
 - b. Added the signature page 3 that was missing in the original bid forms.
3. Updates to electrical drawings have been included in this addendum 5 to address electrical bid questions.
 - a. Refer to E-9 for updates on high voltage cabling
 - b. All pedestrian light poles will be contractor provided. All non-pedestrian light poles will be provided by Owner, adequate supply is available in storage per University. Contractor to provide all light fixtures and add to poles provided by owner.
 - c. Site lighting conduits are direct buried, only the 4" conduits shown in duct bank are concrete encased. Note added to E-9 for clarity.
4. Drawings included:
 - a. E-1 - SCHEDULES & NOTES
 - b. E-4 - ELECTRICAL DETAILS
 - c. E-4.1 - ELECTRICAL DETAILS
 - d. E-9 - ELECTRICAL PLANS

END OF SHIEL SEXTON ADDENDUM 5

SUBCONTRACTOR BID FORM-Addendum 5

Bid Package 01 – Sitework

UNCC East Village Infrastructure

To: The University of North Carolina at Charlotte From: _____
Attn: Ms. Kathy Fisher – Facilities Operations Contact: _____
9201 University City Boulevard Phone: _____
Charlotte, NC 28223 Email: _____
704/687-0596

1. The undersigned Bidder proposes to furnish all labor and material, and to perform all work necessary for the **Bid Package 01 – Sitework** in accordance with the Project Documents, as prepared by Kimley Horn and the Scope of Work - Contract #01 Sitework Bid Package issued in Addendum 1 for the lump sum price of:

_____ Dollars (\$ _____)
(Enter Base Bid Amount in Words Here) (Numerical Value Here)

2. The undersigned Bidder further acknowledges receipt of the following addenda as listed below and represents that any additions or modifications to, or deletions from the work called for in these addenda, have been taken into consideration and included in the Base Bid Sum.

Addendum No.: _____ Addendum No.: _____

Addendum No.: _____ Addendum No.: _____

Addendum No.: _____ Addendum No.: _____

The undersigned Bidder understands that the Owner reserves the right to reject this bid, but that this bid shall remain open and may not be withdrawn for ninety (60) days from the date of opening.

3. Alternates

- a. Alternate 1: Martin Village Connector

_____ Dollars (\$ _____)
(Enter Alternate Amount in Words Here) (Numerical Value Here)

- b. Alternate 2: Installation of Sediment Trap in Lot 5A sand filter location

_____ Dollars (\$ _____)
(Enter Alternate Amount in Words Here) (Numerical Value Here)

- c. Alternate 3: Installation of wooden guiderail around Lot 5A sand filter

SUBCONTRACTOR BID FORM-Addendum 5

(Enter Alternate Amount in Words Here) Dollars (\$) _____
(Numerical Value Here)

d. Alternate 4: Relocation of Entrance to Lot 5

(Enter Alternate Amount in Words Here) Dollars (\$) _____
(Numerical Value Here)

e. Alternate 5: Owner preferred alternate "Unit Pavers" – Provide Pine Hall, English Edge Pavers

(Enter Alternate Amount in Words Here) Dollars (\$) _____
(Numerical Value Here)

4. Work Sequence:

The Work shall be conducted in the sequences outlined in the project plans. Specifically, the Contractor will refer to sheets TCP-1 through TCP-8.

5. Unit Pricing:

No. 1 Unit Price 1: Removal of unsatisfactory soil and replacement with satisfactory soil material.

- Unit of Measurement: Cubic yard
- \$ _____
- Contractor shall include 500 cubic yards of unsuitable soil removal in the base bid. Unit price shall be utilized to make adjustments in actual quantities encountered. Unit price shall include replacement with suitable fill. No additional time will be given to remove unsuitable soil.

No. 2 Unit Price 2: Removal of trench rock replacement with satisfactory soil material.

- Unit of Measurement: Cubic yard
- \$ _____
- Contractor shall include 230 cubic yards of trench rock in the base bid. Unit price shall be utilized to make adjustments in actual quantities encountered. Unit price shall include replacement with suitable fill. No additional time will be given to remove trench rock.

No. 3 Unit Price 3: Rock.

- Unit of Measurement: Cubic yard
- \$ _____
- Unit price shall be utilized to measure payment for actual quantities encountered. Unit price shall include replacement with suitable fill. No additional time will be given to encountering rock.

SUBCONTRACTOR BID FORM-Addendum 5

Proposal Signature Page

The undersigned further agrees that in the case of failure on his part to execute the said contract and the bonds within ten (10) consecutive calendar days after being given written notice of the award of contract, the certified check, cash or bid bond accompanying this bid shall be paid into the funds of the owner's account set aside for the project, as liquidated damages for such failure; otherwise the certified check, cash or bid bond accompanying this proposal shall be returned to the undersigned. (Bid bond requirements will be waived for bids less than \$500,000)

Respectfully submitted this day of _____

(Name of firm or corporation making bid)

WITNESS:

(Proprietorship or Partnership)

By: _____
Signature

Name: _____
Print or type

Title _____
(Owner/Partner/Pres./V.Pres)

Address _____

ATTEST:

By: _____

Title: _____
(Corp. Sec. or Asst. Sec. only)

License No. _____

Federal I.D. No. _____

Email Address: _____

(CORPORATE SEAL)

SUBCONTRACTOR BID FORM-Addendum 5

Bid Package 02 – Electrical

UNCC East Village Infrastructure

To: The University of North Carolina at Charlotte
Attn: Ms. Kathy Fisher – Facilities Operations
9201 University City Boulevard
Charlotte, NC 28223
704/687-0596

From: _____
Contact: _____
Phone: _____
Email: _____

1. The undersigned Bidder proposes to furnish all labor and material, and to perform all work necessary for the **Bid Package 02 – Electrical** in accordance with the Project Documents, as prepared by Kimley Horn and the Scope of Work - Contract #02 Electrical Bid Package issued in Addendum 1 for the lump sum price of:

_____ Dollars (\$ _____)
(Enter Base Bid Amount in Words Here) (Numerical Value Here)

2. The undersigned Bidder further acknowledges receipt of the following addenda as listed below and represents that any additions or modifications to, or deletions from the work called for in these addenda, have been taken into consideration and included in the Base Bid Sum.

Addendum No.: _____ Addendum No.: _____

Addendum No.: _____ Addendum No.: _____

Addendum No.: _____ Addendum No.: _____

The undersigned Bidder understands that the Owner reserves the right to reject this bid, but that this bid shall remain open and may not be withdrawn for ninety (60) days from the date of opening.

3. Alternates

- a. Alternate 1: Martin Village Connector

_____ Dollars (\$ _____)
(Enter Alternate Amount in Words Here) (Numerical Value Here)

- b. Alternate 4: Relocation of Entrance to Lot 5

_____ Dollars (\$ _____)
(Enter Alternate Amount in Words Here) (Numerical Value Here)

SUBCONTRACTOR BID FORM-Addendum 5

4. Work Sequence:

The Work shall be conducted in the sequences outlined in the project plans. Specifically, the Contractor will refer to sheets TCP-1 through TCP-8.

5. Unit Pricing:

No. 1 Unit Price 1: Removal of unsatisfactory soil and replacement with satisfactory soil material.

- Unit of Measurement: Cubic yard
- \$ _____
- Unit price shall include replacement with suitable fill. No additional time will be given to remove unsuitable soil.

No. 2 Unit Price 2: Removal of trench rock replacement with satisfactory soil material.

- Unit of Measurement: Cubic yard
- \$ _____
- Unit price shall include replacement with suitable fill. No additional time will be given to remove trench rock.

No. 3 Unit Price 3: Rock.

- Unit of Measurement: Cubic yard
- \$ _____
- Unit price shall include replacement with suitable fill. No additional time will be given to encountering rock during duct bank installation or directional drilling operations.

SUBCONTRACTOR BID FORM-Addendum 5

Proposal Signature Page

The undersigned further agrees that in the case of failure on his part to execute the said contract and the bonds within ten (10) consecutive calendar days after being given written notice of the award of contract, the certified check, cash or bid bond accompanying this bid shall be paid into the funds of the owner's account set aside for the project, as liquidated damages for such failure; otherwise the certified check, cash or bid bond accompanying this proposal shall be returned to the undersigned. (Bid bond requirements will be waived for bids less than \$500,000)

Respectfully submitted this day of _____

(Name of firm or corporation making bid)

WITNESS:

(Proprietorship or Partnership)

By: _____
Signature

Name: _____
Print or type

Title _____
(Owner/Partner/Pres./V.Pres)

Address _____

ATTEST:

By: _____

Title: _____
(Corp. Sec. or Asst. Sec. only)

License No. _____

Federal I.D. No. _____

Email Address: _____

(CORPORATE SEAL)

SUBCONTRACTOR BID FORM-Addendum 5

Bid Package 03 – Landscaping

UNCC East Village Infrastructure

To: The University of North Carolina at Charlotte
Attn: Ms. Kathy Fisher – Facilities Operations
9201 University City Boulevard
Charlotte, NC 28223
704/687-0596

From: _____
Contact: _____
Phone: _____
Email: _____

1. The undersigned Bidder proposes to furnish all labor and material, and to perform all work necessary for the **Bid Package 03 – Landscaping** in accordance with the Project Documents, as prepared by Kimley Horn and the Scope of Work - Contract #03 Landscape Package issued in Addendum 1 for the lump sum price of:

_____ Dollars (\$ _____)
(Enter Base Bid Amount in Words Here) (Numerical Value Here)

2. The undersigned Bidder further acknowledges receipt of the following addenda as listed below and represents that any additions or modifications to, or deletions from the work called for in these addenda, have been taken into consideration and included in the Base Bid Sum.

Addendum No.: _____ Addendum No.: _____

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The undersigned Bidder understands that the Owner reserves the right to reject this bid, but that this bid shall remain open and may not be withdrawn for ninety (60) days from the date of opening.

3. Alternates

- a. Alternate 1: Martin Village Connector

_____ Dollars (\$ _____)
(Enter Alternate Amount in Words Here) (Numerical Value Here)

- b. Alternate 4: Relocation of Entrance to Lot 5

_____ Dollars (\$ _____)
(Enter Alternate Amount in Words Here) (Numerical Value Here)

SUBCONTRACTOR BID FORM-Addendum 5

4. Work Sequence:

The Work shall be conducted in the sequences outlined in the project plans. Specifically, the Contractor will refer to sheets TCP-1 through TCP-8.

5. Unit Pricing: Not applicable

SUBCONTRACTOR BID FORM-Addendum 5

Proposal Signature Page

The undersigned further agrees that in the case of failure on his part to execute the said contract and the bonds within ten (10) consecutive calendar days after being given written notice of the award of contract, the certified check, cash or bid bond accompanying this bid shall be paid into the funds of the owner's account set aside for the project, as liquidated damages for such failure; otherwise the certified check, cash or bid bond accompanying this proposal shall be returned to the undersigned. (Bid bond requirements will be waived for bids less than \$500,000)

Respectfully submitted this day of _____

(Name of firm or corporation making bid)

WITNESS:

(Proprietorship or Partnership)

By: _____
Signature

Name: _____
Print or type

Title _____
(Owner/Partner/Pres./V.Pres)

Address _____

ATTEST:

By: _____

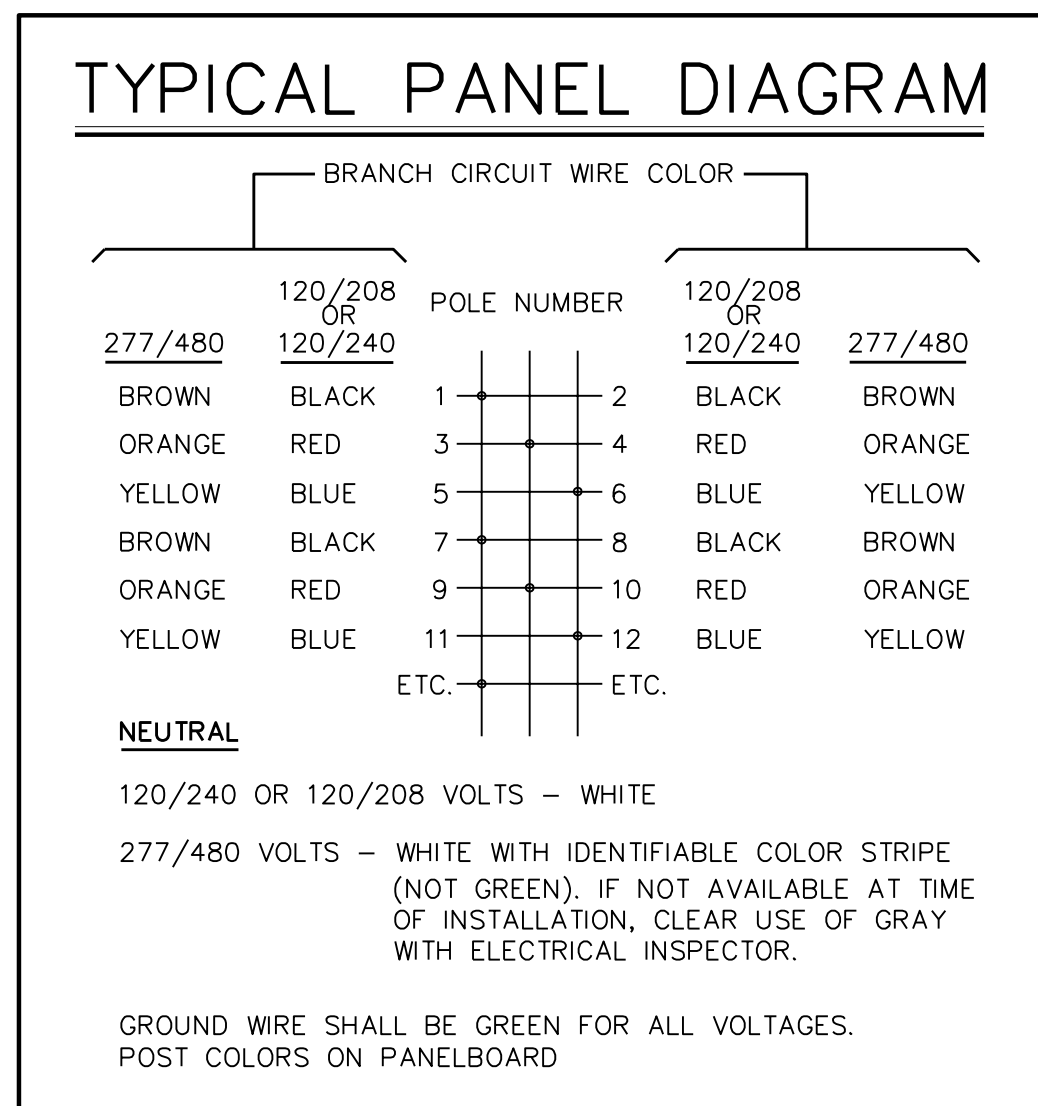
Title: _____
(Corp. Sec. or Asst. Sec. only)

License No. _____

Federal I.D. No. _____

Email Address: _____

(CORPORATE SEAL)



ELECTRICAL LEGEND

A	AMPERE
AFF	ABOVE FINISHED FLOOR - MEASURED FROM FLOOR TO CENTER OF DEVICE, EXCEPT AS OTHERWISE SPECIFICALLY NOTED.
ADA	AMERICANS WITH DISABILITIES ACT OF 1990
AFG	ABOVE FINAL GRADE
AR	AS REQUIRED
C	CONDUIT
DE	DUKE ENERGY
EC	EMPTY CONDUIT
G	GROUND
HH	OUTDOOR, FLUSH IN GRADE OR PAVEMENT HANDHOLE BOX REFER TO SECTION 260543.
HPS	HIGH PRESSURE SODIUM
GR	GROUND ROD
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
MCM	Kcmil (THOUSAND CIRCULAR MILS)
N	NEUTRAL
NC5BC	NC STATE BUILDING CODE
NE	NEW ELECTRICAL CABLE
NEC	NATIONAL ELECTRICAL CODE
NEL	NEW ELECTRICAL LIGHTING CIRCUIT EXTENSION (277V)
NT	NEW TELECOM CABLE
P	POLE
PED	PEDESTRIAN
PH	PHASE
PR	PAIR
RM	EXISTING ITEM TO REMAIN, PROVIDE NEW POWER AND TELECOMMUNICATIONS AS APPLICABLE PER NEW WORK PLAN.
RL	EXISTING ITEM - RELOCATE
RV	EXISTING ITEM - REMOVE
SCIR	SHORT CIRCUIT INTERRUPTING RATING
SO	SPACE ONLY (WITH PROVISIONS FOR FUTURE OVERCURRENT PROTECTIVE DEVICE)
T	TELECOM/TELEPHONE CABLE
TV	TV/TIME WARMER CABLE
WP	INDICATES DEVICE TO HAVE WEATHERPROOF COVER

GENERAL DEMOLITION NOTES

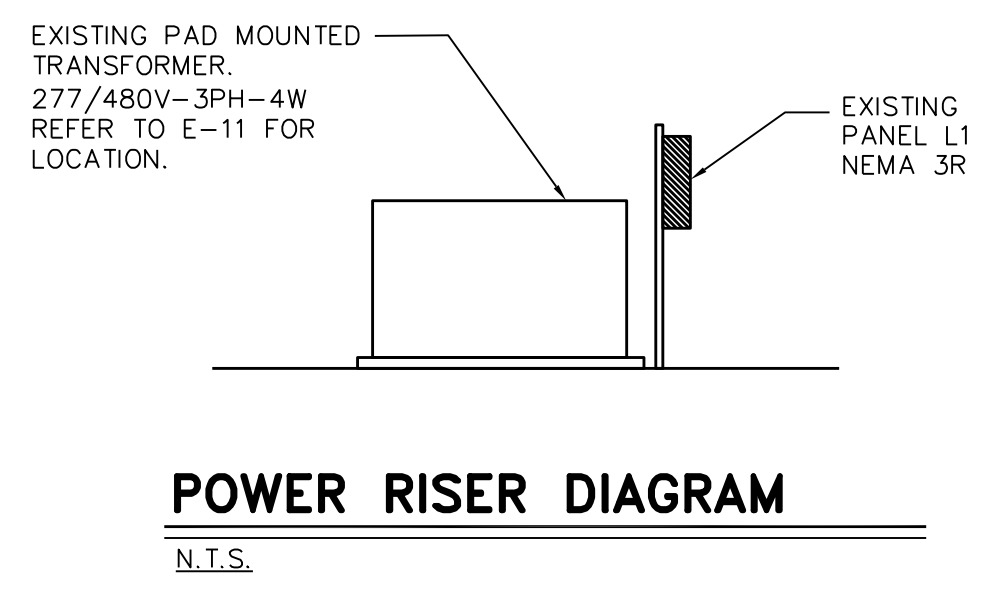
- DA. THE ELECTRICAL BIDDER SHALL VERIFY CIRCUIT CONFIGURATION, ROUTING AND CONDITIONS PRIOR TO BIDDING PROJECT. NO CLAIMS FOR EXTRA WORK SHALL BE ACCEPTED AFTER THE AWARDING OF BIDS FROM DISCREPANCIES BETWEEN VERIFIABLE FIELD CONDITIONS AND ITEMS SHOWN HERE.
- DB. ELECTRICAL DEMOLITION WORK SHALL BE COORDINATED WITH OTHER TRADES AND AS SCHEDULED BY THE CONTRACT DOCUMENTS. UTILITY OUTAGES FOR FEEDER AND BRANCH CIRCUITS SHALL BE KEPT TO A MINIMUM. TEMPORARILY RECONNECT UTILITIES TO AN ALTERNATE SOURCE UNTIL A PERMANENT SOURCE CAN BE PROVIDED.
- DC. WHEN A FEEDER OR BRANCH CIRCUIT IS SHOWN TO BE REMOVED, THE ASSOCIATED WIRING SHALL BE REMOVED BACK TO ITS ORIGIN. CONDUIT MAY BE ABANDONED UNDERGROUND AT THE OWNERS DISCRETION.
- DD. EQUIPMENT, CIRCUITS AND UTILITIES WHICH REMAIN BUT ARE SERVED BY FEEDERS OR CIRCUITS BEING REMOVED OR ALTERED SHALL BE RECONNECTED ACCORDING TO THE METHODS REQUIRED BY THIS SPECIFICATION AND THE NEC WITHOUT EXTRA COST TO THE OWNER.
- DE. TURN OVER TO THE OWNER, LIGHTING FIXTURES AND OTHER EQUIPMENT SHOWN TO BE REMOVED, EXCEPT THAT THE OWNER RESERVES THE RIGHT TO REJECT WHATEVER EQUIPMENT HE DOES NOT FIND FIT, IN WHICH CASE THE CONTRACTOR SHALL REMOVE IT FROM THE PREMISES.

GENERAL NOTES

- A. ELECTRICAL DEVICES AND EQUIPMENT SHALL BE LISTED AND LABELED FOR USE WITH CONDUCTORS WHICH HAVE INSULATION RATED FOR 75°C OR HIGHER BY ONE OF THE THIRD PARTY AGENCIES WHICH HAVE BEEN APPROVED BY THE NCSBCC TO SAFETY TEST AND LABEL ELECTRICAL AND MECHANICAL EQUIPMENT. DERATING OF CONDUCTORS IS NOT ALLOWED.
- B. ALL ELECTRICAL CONDUCTORS SHALL BE COPPER, THWN/THHN
- C. MINIMUM BRANCH CIRCUIT CONDUCTOR SIZE SHALL BE #12 AWG. MINIMUM ACCEPTABLE CONDUIT SIZE SHALL BE 3/4" TRADE SIZE. PROVIDE LARGER CONDUCTORS AND CONDUIT AS NOTED.
- D. AN INDIVIDUAL GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED WITH EACH 120-VOLT OR HIGHER VOLTAGE CIRCUIT. SIZE CONDUCTOR AS SHOWN, OR PER TABLE 250.122 OF NEC IF SIZE IS NOT GIVEN.
- E. PROVIDE CONDUITS AS SPECIFIED FOR ALL POWER CIRCUITS, SIZED PER NEC, NOT TO EXCEED 40% FILL.
- F. COORDINATE ROUTING OF CONDUITS WITH OTHER UTILITIES TO AVOID CONFLICTS.
- G. CONTRACTOR SHALL COORDINATE PHASING WITH THE UNIVERSITY AND OTHER TRADES.
- H. CONDUCTOR SPLICES WITHIN HANDHOLE BOXES SHALL BE MADE WATERTIGHT UTILIZING LISTED COMPRESSION MECHANICAL CONNECTORS AND LISTED HEAT-SHRINK SPLICE KITS.

PARTIAL SYMBOL SCHEDULE

SYMBOL	DESCRIPTION
→	INDICATES HOME RUN TO PANEL WITH PANEL AND CIRCUIT DESIGNATION.
■	ELECTRICAL PANELBOARD
SPD	SURGE PROTECTION DEVICE
□	ELECTRICAL HANDHOLE
E	HIGH VOLTAGE HANDHOLE
⊕	GROUNDING ELECTRODE
⊕	BLUE LIGHT PHONE
☀	NEW OR RELOCATED PEDESTRIAN POLE LIGHTING FIXTURE.
☀	NEW OR RELOCATED SINGLE-HEAD, 30-FOOT POLE STREET LIGHT FIXTURE
☀	NEW OR RELOCATED TWO-HEAD, 30-FOOT POLE STREET LIGHT FIXTURE



LIGHTING FIXTURE SCHEDULE

FIXTURE DESIGNATION	DESCRIPTION	LAMPS			BALLAST OR DRIVER			TOTAL WATTS
		QTY	TYPE	WATTS	QTY	TYPE	WATTS	
SA	NEW UNC CHARLOTTE CAMPUS "STANDARD" PEDESTRIAN LED POLE LIGHT CONSISTING OF 12'-0" TAPERED ALUMINUM "ARCHITECTURAL" POLE WITH HEXAGONAL BASE, ACCESS PLATE AND 3-INCH I.D. SLIP FITTER, LUMINAIRE SHALL BE HEXAGONAL WITH CAST ALUMINUM "ROOF" AND FINIAL, AND UV STABILIZED ACRYLIC REFRACTIVE REMOVABLE PANELS. BOTH LUMINAIRE AND POLE SHALL BE FINISHED IN "MALAGA GREEN" - RAL 6012. TYPICAL. MULTI-TAP DRIVER. PROVIDE CONCRETE BASE FUSE PROTECTION AND BUILT-IN SURGE PROTECTION DEVICE AS SPECIFIED IN SECTION 265600 FOR ADDITIONAL REQUIREMENTS. HADCO "CITADEL V25" SERIES OR MATCHING PRODUCT FROM ANP, STEINBERG OR SPRING CITY. SEE DETAIL 1/E-3.	2	LED ARRAYS	40	2	ELECTRONIC MULTI-TAP 120/208/1240/277V	85	
SB	NEW LED STREET LIGHTING SINGLE LUMINAIRE ON 30'-0" ALUMINUM POLE WITH CONCRETE BASE. GE EVOLVE SERIES EASC OWNER PREFERRED TO MATCH EXISTING CAMPUS STANDARD OR EQUIVALENT.	1		82	1	ELECTRONIC MULTI-TAP 120/208/240/277V	82	
SB2	SIMILAR TO "SB", EXCEPT TWO-LUMINAIRE FIXTURE.	2		82	2	ELECTRONIC MULTI-TAP 120/208/240/277V	164	
SC	EXISTING STREET LIGHTING SINGLE ROUND LUMINAIRE ON 30'-FOOT (NOMINAL) POLE ON RECESSED CONCRETE BASE FINISHED IN "MALAGA GREEN".	1	LED		1			
SCR	EXISTING TYPE "SC" LIGHTING FIXTURE RELOCATE TO NEW LOCATION TO AVOID INTERFERENCE WITH NEW ROAD IMPROVEMENTS. PROVIDE NEW CONCRETE BASE PER DETAIL 4/E-3 AND RE-LAMP WITH NEW LED LAMP.	1	LED		1			
SD	EXISTING CAMPUS "STANDARD" CITADEL PEDESTRIAN POLE LIGHT, SIMILAR TO TYPE "SA" ABOVE, EXCEPT WITH 150 WATT HPS LAMP/BALLAST INSTEAD OF LED.	1	HPS	150	1	HX-HPF	188	
SE	EXISTING POST-TOP OLD HID PEDESTRIAN POLE FIXTURE WITH NATURAL ALUMINUM FINISH. ±12" POLE AND LUMINAIRE	1	HPS	150	1	HX-HPF	188	
SF	EXISTING 30' HID PARKING LOT LIGHT POLE.	1	HPS	400	1	HX-HPF	465	
SG	EXISTING 30' LED PARKING LOT LIGHT POLE. SINGLE HEAD.	1	LED		1			
SG2	EXISTING 30' LED PARKING LOT LIGHT POLE. DOUBLE HEAD.	2	LED		2			
SGR	EXISTING 30' LED PARKING LOT LIGHT POLE. RELOCATED TO NEW LOCATION.	1	LED		1			

LIGHTING FIXTURE SCHEDULE NOTES

- EXACT LOCATION OF LIGHTING FIXTURES SHALL BE AS SHOWN ON THE CIVIL DRAWINGS. FIXTURES NOT SHOWN ON THE CIVIL DRAWINGS SHALL BE LOCATED AS SHOWN ON THE ELECTRICAL DRAWINGS.
- CATALOG NUMBERS SHOWN IN THE LIGHTING FIXTURE SCHEDULE DO NOT NECESSARILY INCLUDE ALL ACCESSORIES SPECIFIED IN THE FIXTURE DESCRIPTION. THE CONTRACTOR SHALL PROVIDE ALL SPECIFIED FEATURES WHETHER THEY ARE INCLUDED IN THE FIXTURE CATALOG NUMBER OR NOT. EQUIVALENT FIXTURES OF OTHER MANUFACTURERS NOT LISTED IN THE SCHEDULE MAY BE SUBMITTED, SUBJECT TO ENGINEER'S REVIEW.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT THE LIGHTING FIXTURES FURNISHED ARE SUITABLE FOR THE PROPOSED INSTALLATION PRIOR TO SUBMITTING SHOP DRAWINGS. THE CONTRACTOR SHALL VERIFY THAT THE FIXTURES SPECIFIED ARE SUITABLE FOR THE ACTUAL MOUNTING CONDITIONS, AND THAT THE FIXTURES ARE OF THE PROPER VOLTAGE FOR THE CIRCUITING SHOWN ON THE DRAWINGS. NO EXTRA PAYMENT WILL BE PROCESSED FOR FAILURE TO COMPLY WITH THIS REQUIREMENT.
- LIGHT POLES FOR TYPES "SB" AND "SB2" TO BE PROVIDED BY OWNER. LUMINAIRES AND ANY ACCESSORIES REQUIRED FOR INSTALLATION OF THE COMPLETE UNIT SHALL BE PROVIDED BY CONTRACTOR. CONTRACTOR SHALL DRILL MOUNTING HOLES IF NECESSARY ON THE EXISTING POLES.
- ALL PEDESTRIAN POLES/FIXTURES TO BE PROVIDED BY CONTRACTOR.

SCHEDULE OF ELECTRICAL SHEETS

- E-1 SCHEDULES AND NOTES
- E-2 OVERALL ELECTRICAL PLAN
- E-3 ELECTRICAL DETAILS
- E-4 ELECTRICAL DETAILS
- E-4.1 ELECTRICAL DETAILS
- E-5 ELECTRICAL PLAN
- E-6 ELECTRICAL PLAN
- E-7 ELECTRICAL PLAN
- E-8 ELECTRICAL PLAN
- E-9 ELECTRICAL PLAN
- E-10 ELECTRICAL PLAN
- E-11 ELECTRICAL PLAN
- E-12 ELECTRICAL PLAN

LOAD NAME	A	B	C	DESCRIPTION	COND	GRND	WIRE	ERRR	CKT	NO.	NO.	RATIO	WIRE	GRND	COND	DESCRIPTION	LOAD (KVA)	A	B	C
1.8				LTG.-LOT 6 CAMERON	1"	6	6	201	1		2	203	EX	EX	EX	POWER LOGIC	1.0			
1.8				LTG.-LOT 6 CAMERON	1"	6	6	201	3		4		EX				1.0			
1.5				LTG.-LOT 6A	EX	EX	EX	201	5		6		EX				1.0			1.0
1.5				LTG.-LOT 6A	EX	EX	EX	201	7		8	202	EX	EX	EX	MANHOLE SUMP PUMP	1.0			
1.0				LTG.-M.V. ROADWAY	1"	6	6	201	9		10		EX				1.0			
1.1				LTG.-M.V. ROADWAY	1"	6	6	201	11		12	501	EX	EX	EX	GARDEN WORKSHOP	0.0			6.0
2.4				LTG.-M.V. CONNECTOR	1"	6	6	201	13		14	201				SPARE	0.0			
2.9				LTG.-M.V. CONNECTOR	1"	6	6	201	15		16	201				SPARE	0.0			
0.0				SPARE					17		18	201				SPARE	0.0			0.0
0.0				SPARE					19		20	201				SPARE	0.0			0.0
0.0				SPARE					21		22	201				SPARE	0.0			0.0
0.0				PHOTOCELL	EX	EX	EX	201	23		24	201				SPARE	0.0			0.0
0.0				SPARE					25		26	201				SPARE	0.0			0.0
0.0				SPARE					27		28	201				SPARE	0.0			0.0
0.0				SPARE					29		30	201				SPARE	0.0			0.0
0.0				SPARE					31		32						0.0			0.0
0.0				SPARE					33		34						0.0			0.0
0.0				SPARE					35		36						0.0			0.0
0.0				SPARE					37		38						0.0			0.0
0.0				SPARE					39		40						0.0			0.0
0.0				SPARE					41		42						0.0			0.0

TYPE: BRANCH CIRCUIT	GRAND TOTALS	CONNECTED LOAD	NEC CALCULATED DEMAND LOAD
MOUNTING SURFACE	A= 7.7 KVA	HEATING 14.1 KVA	(125%) 17.7 KVA
SURF. 480V/277V, 3PH, 4W	B= 7.7 KVA	HEATING AND COOLING 0.0 KVA	
MAINS: 200 AMP MAIN CIRCUIT BREAKER	C= 9.8 KVA	A/C & HEAT PUMPS 0.0 KVA	(100% - MINUS NC LOAD) 0.0 KVA
SCOR:		AFR HANDLING & FANS 0.0 KVA	(100%) 0.0 KVA
RECEPTACLES		ELECTRIC WATER HEATING 0.0 KVA	(1ST 10 KVA + 50% OF REM.) 0.0 KVA
1.0 "E" 'A' SERIES		ELEVATORS 0.0 KVA	(100%) 0.0 KVA
2. ALL CIRCUIT BREAKERS ARE EXISTING		FOOD PROCESSING 0.0 KVA	(100%) 0.0 KVA
3. "X" INDICATES EXISTING CONDUIT AND WIRING TO REMAIN		PROCESS 0.0 KVA	(100%) 0.0 KVA
		MISCELLANEOUS 11.0 KVA	(100%) 11.0 KVA
			25% OF LARGEST MOTOR: 0.0 KVA
		TOTAL CONNECTED LOAD: 25.1 KVA	TOTAL NEC DEMAND LOAD: 28.7 KVA
		WORST PHASE (W.D.F.): 37.8 AMPS	DEMAND LOAD CURRENT: 34.5 AMPS

EXISTING PANEL L1



Know what's below.
Call before you dig.

10/27/2020	BY
10/27/2020	DATE
10/27/2020	REVISIONS
10/27/2020	No.
10/27/2020	BY

ADDENDUM 1A

1A

CMTA
8801 Lark Meade Dr. Suite 200 Charlotte, NC 28226
704.376.3072 cmta.com
C-456

BID SET

10/27/2020

CMTA PROJECT 217,069
DATE 10/9/2020
SCALE AS SHOWN
DESIGNED BY
DRAWN BY
CHECKED BY

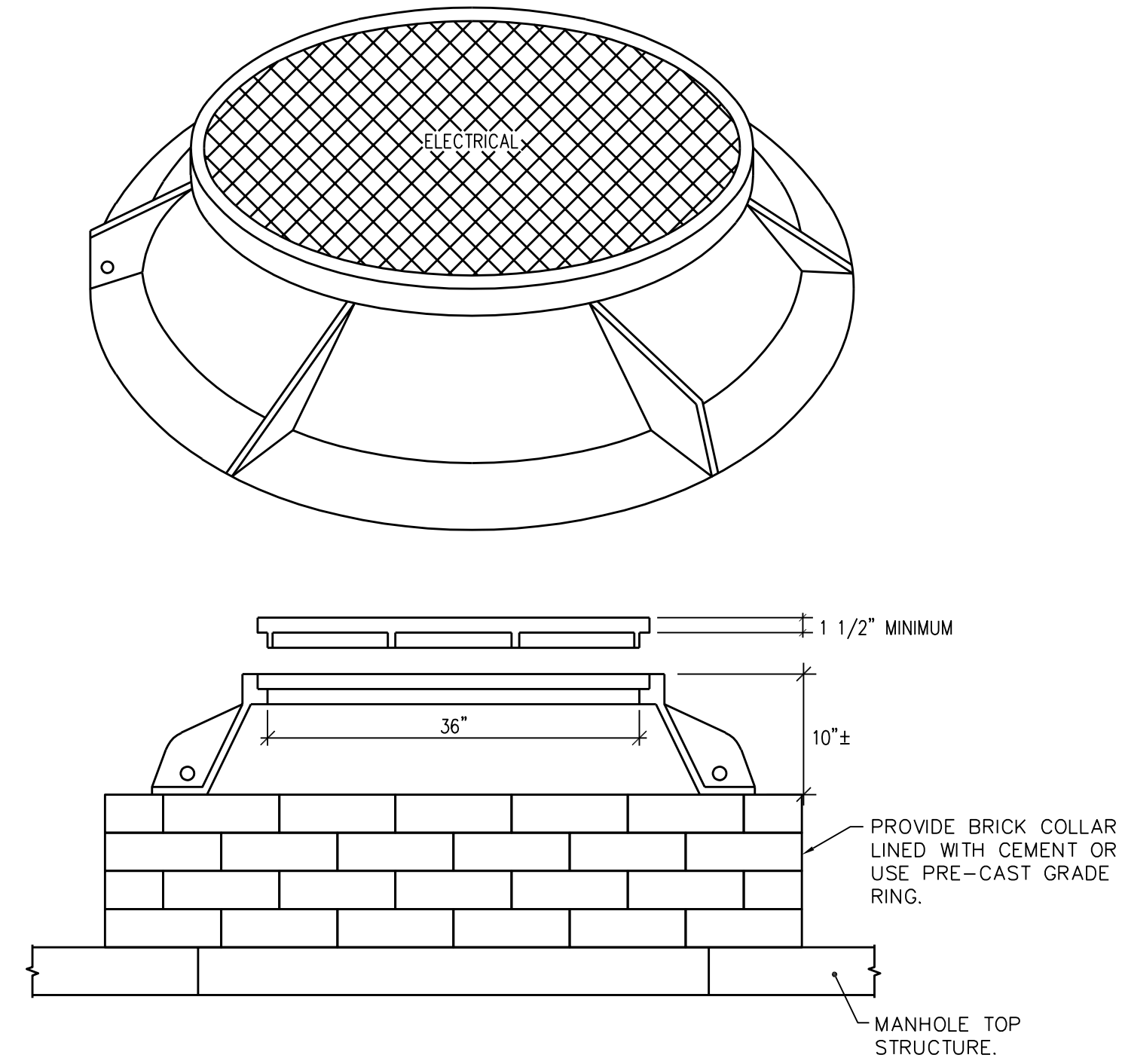
UNC CHARLOTTE
9201 UNIVERSITY CITY BOULEVARD
CHARLOTTE, NC 28223

SCHEDULES & NOTES

THE UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE
EAST VILLAGE
INFRASTRUCTURE
PROJECT ID #13-11004-02A

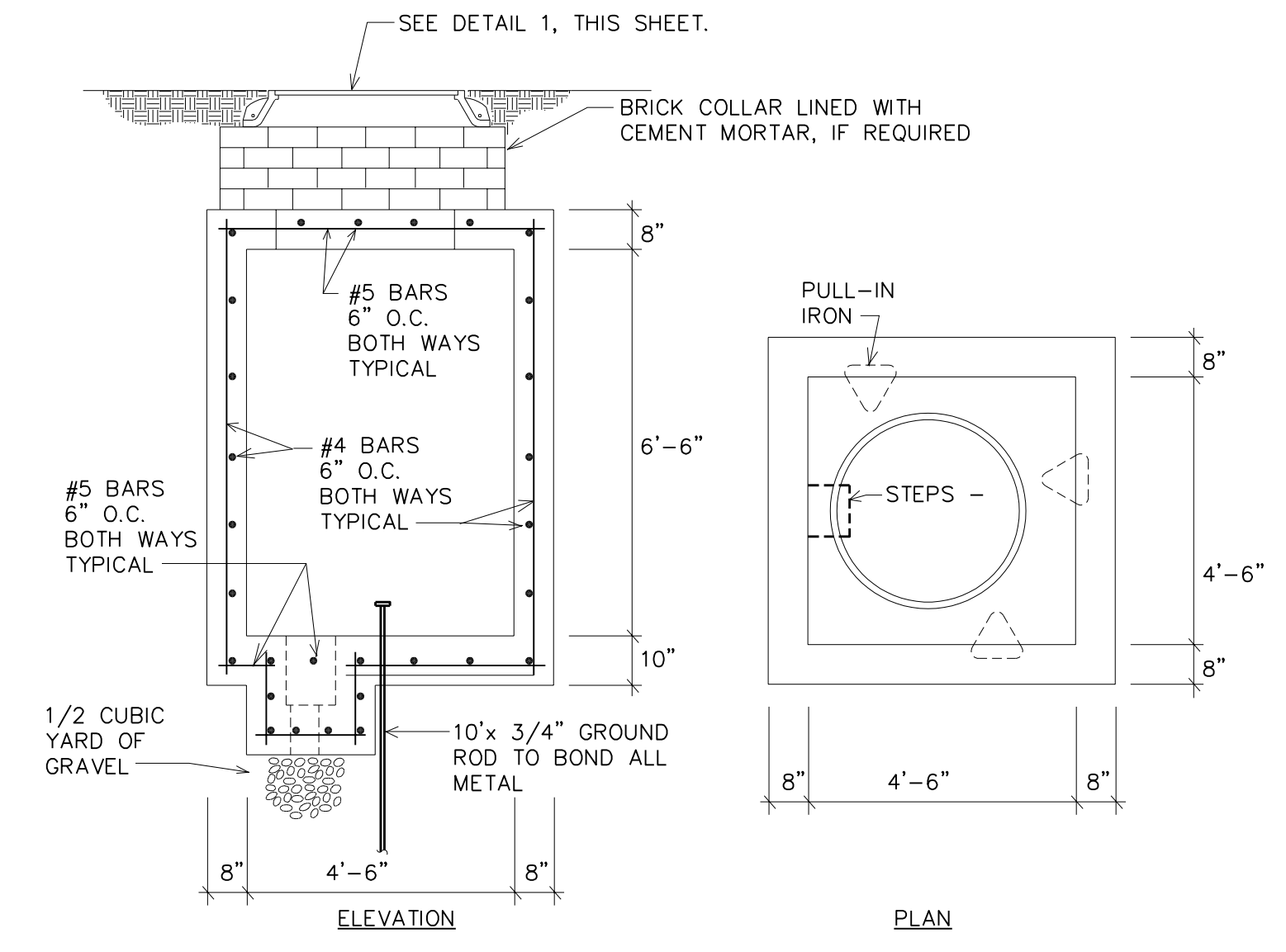
SHEET NUMBER
E-1

THE INSTALLATION OF MANHOLES SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS. FOR THIS NON-ROADWAY INSTALLATION, THE TOP ELEVATION OF THE MANHOLE COVER SHALL BE 4-6" ABOVE FINISHED GRADE TO ASSURE POSITIVE DRAINAGE AWAY FROM COVER.



1 MANHOLE COVER
NOT TO SCALE

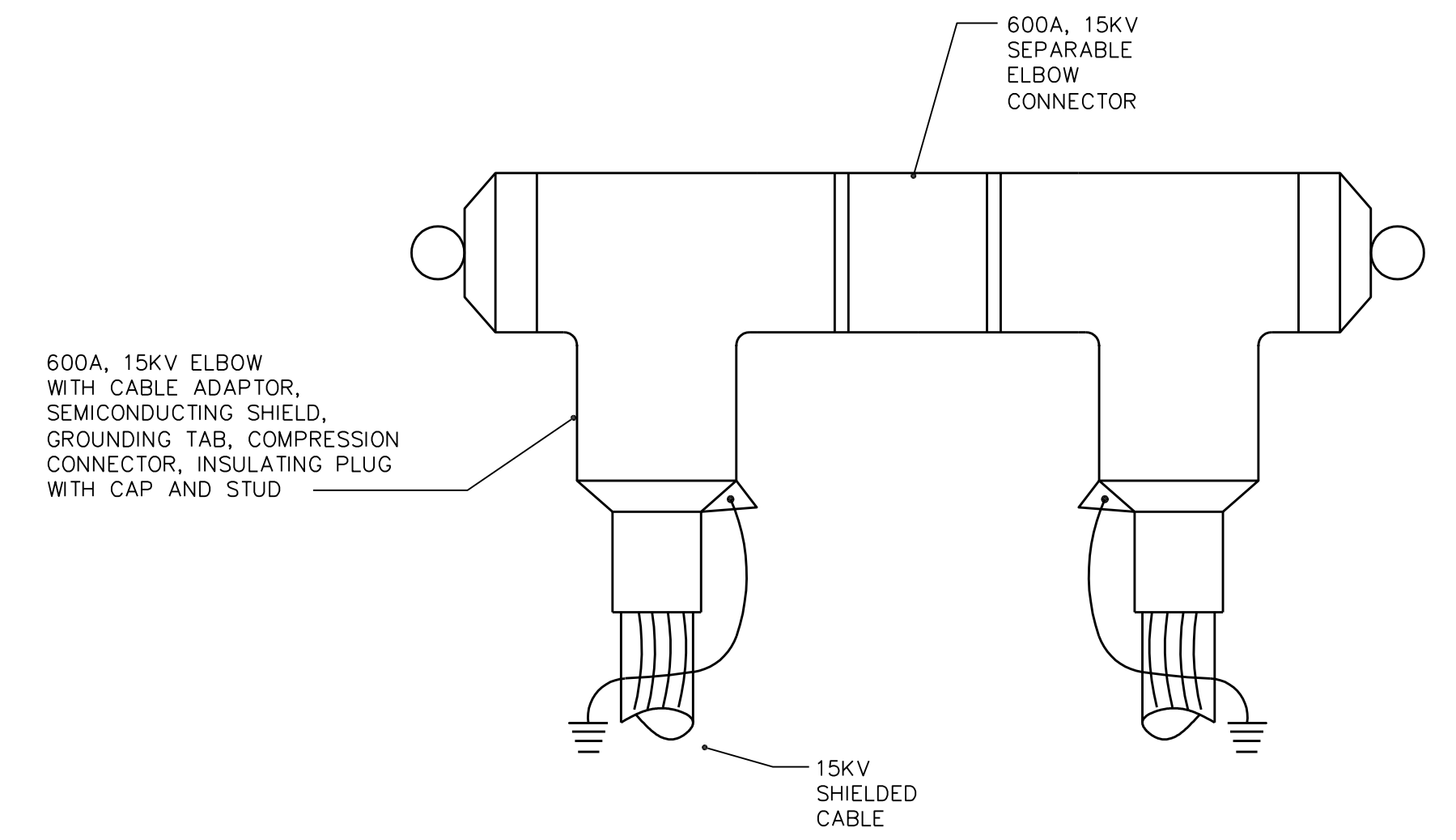
GENERAL NOTE FOR HANDHOLE AND MANHOLE INSTALLATION
COMPACT SOIL AROUND HANDHOLE OR MANHOLE IN ACCORDANCE WITH RECOMMENDATIONS OF SOIL TESTING AGENCY TO WITHSTAND HIGHWAY LOADING. ENGAGE SOIL TESTING AGENCY TO VERIFY SOIL BEARING PRESSURE.



2 ELECTRIC MANHOLE
NOT TO SCALE

NOTES:
1. WHERE CONDUCTORS REQUIRING SEPARATE RACEWAYS FROM THE EMERGENCY POWER CONDUCTORS PASS THROUGH THE EMERGENCY POWER MANHOLE PROVIDE NEMA 4 ENCLOSURES WITHIN THE MANHOLE AND LIQUIDTIGHT FLEXIBLE METAL CONDUIT TO THE RACEWAYS ENTERING THE MANHOLE TO PROVIDE THE REQUIRED SEPARATION.
2. FOR NON-ROADWAY INSTALLATIONS, MANHOLE TOP ELEVATION SHALL BE 4-6 INCHES ABOVE FINISHED GRADE TO ASSURE POSITIVE DRAINAGE AWAY FROM COVER.

CONCRETE:
4000 PSI AT 28 DAYS

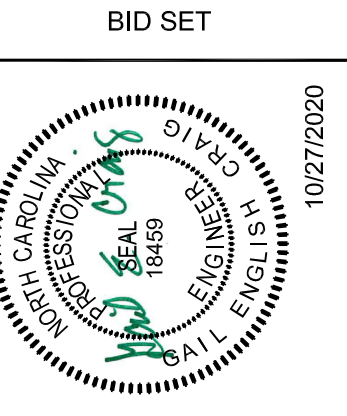


3 600A, 15KV, NON-LOAD BREAK, SHIELDED, SUBMERSIBLE, SEPARABLE CABLE SPLICE SYSTEM DETAIL

SCALE: NONE
NOTES:
1. ASSEMBLY SHALL MEET ANSI/IEEE STANDARD 386.
2. INSTALL HOLD DOWN BAILS SUPPLIED WITH ELBOWS.
3. ACCOMPLISH WORK IN ACCORDANCE WITH SPLICE SYSTEM MANUFACTURER'S INSTRUCTIONS.



1A	ADDENDUM 1A	10/27/2020	GEJ
No.	REVISIONS	DATE	BY



CMTA PROJECT	217,069	DATE	10/9/2020	SCALE	AS SHOWN	DESIGNED BY	GEJ	DRAWN BY	GEJ	CHECKED BY	GEJ
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ELECTRICAL DETAILS

THE UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE
EAST VILLAGE
INFRASTRUCTURE
PROJECT ID #13-11004-02A

SHEET NUMBER
E-4.1

