ADDENDUM # 1

University of South Carolina Beaufort
Marine Biology 2nd Floor laboratory Renovation
Project Number H36-1314

Project Architect: Brown Design Studio, Inc.

Date of Issue: March 1, 2018

This addendum forms part of the Contract Documents and modifies the original Project Manual and Drawings. Acknowledge receipt of this addendum on bid proposal to be submitted to Owner.

I. Project Manual

A. Approved Substitution

1. At Section 12345 Laboratory Casework, Part 2, Para. 1. Materials, sub-para A. Manufacturers add the following approved manufacturer:

"LOC Scientific, Inc."

B. Technical Specifications

1. At Section 15400 Plumbing, Part 2, Para 1, Materials add the following at the end of the paragraph:

"P. Gas outlets shall be forged brass polished chrome finish deck mounted double angle outlet similar to VWR Model # 97004-548 or approved equal."

II. Drawings

A. Drawing A2.1

1. Delete Improvement Note # 7 and substitute the following:

"7. Lab table sink shall be a black Kemresin drop-in sink, Kewaunee Model # VF-1000 DI-B, or approved equal with a deck-mounted gooseneck faucet with blade handles and vacuum breaker, VWR Model # VFL412Vb-BH or approved equal."

2. Add the following Note 11:

"11. Cup sink shall be oval 316 stainless steel self-rimming cup sink, VWR Model # 58200-536, or approved equal, with a deck mounted gooseneck faucet, VWR Model # 59382-038, or approved equal."

B. Drawing A2.2

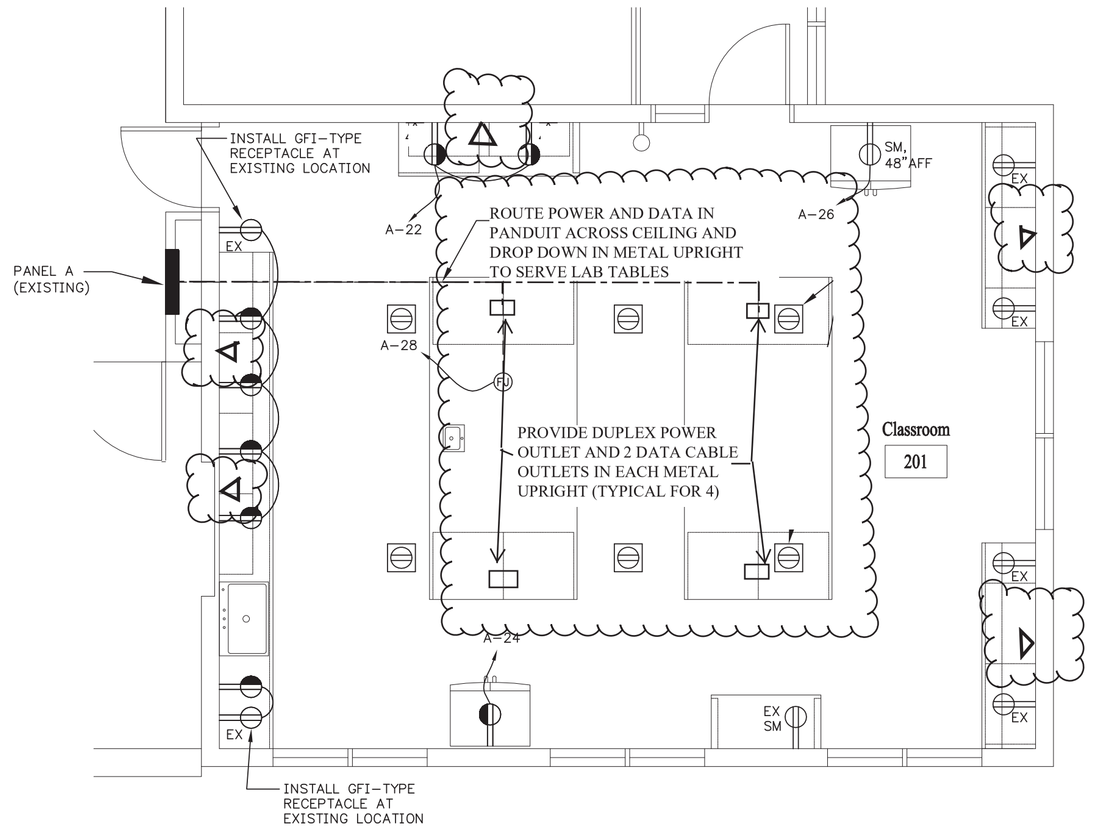
1. At Classroom Elevation 3/A2.3 delete the note regarding the stainless steel not and add the following note:

"Provide and install a 24" X 18" resin peg board with 21 pegs, VWR Model # 10153-234, or approved equal, on wall above the sink location."

C. Drawing E1.0

1. Revised and reissued with this Addendum # 1

END OF ADDENDUM # 1



1 E1.0 2nd Floor Electrical Plan

1/4"=1'-0"

PANEL A

208/120 *VOLTS*, 3 *PHASE*, 4 *WIRE*, 125 *AMPS* ☒ *MAIN BREAKER* ☐ *MAIN LUGS ONLY*

LOCATION:
ENCLOSURE SIZE: EXISTING
FEEDER SIZE : EXISTING
NOTE:

SERVES	LOAD	TRIP			TRIP	LOAD	SERVES
EXISTING	———	20	1	2	20	———	EXISTING
EXISTING	———	20	3	4	20	———	EXISTING
EXISTING	———	20	5	6	20	———	EXISTING
EXISTING	———	20	7	8	20	———	EXISTING
EXISTING	———	20	9	10	20	———	EXISTING
EXISTING	———	20	11	12	20	———	EXISTING
EXISTING	———	20	13	14	20	———	EXISTING
EXISTING	———	20	15	16	20	———	EXISTING
EXISTING	———	20	17	18	20	———	EXISTING
EXISTING	———	20	19	20	20	———	EXISTING
EXISTING	———	20	21	22	20	360	CLASSROOM 201
EXISTING	———	20	23	24	20	1200	CLASSROOM 201
EXISTING	———	20	25	26	20	1200	CLASSROOM 201
EXISTING	———	20	27	28	20	1200	JUNCTION BOX
EXISTING	———	20	29	30	–	———	SPACE

2 E1.0 Electrical Panel

DUPLEX DATA CABLE OUTLET WITH 2 DATA CABLES EXTENDED BACK TO IT CLOSET ON FIRST FLOOR

DUPLEX 120VAC RECEPTACLE, MOUNTED AT 16" AFF TO CENTER LINE UNLESS OTHERWISE NOTED. 'GFI' INDICATES GROUND FAULT INTERRUPTING, 'SM' INDICATES SURFACE MOUNTED, 'EX' INDICATES EXISTING TO BE RE-USED

SURFACE MOUNTED 20 AMPERE DUPLEX 120VAC RECEPTACLE, MOUNTED AT 46" AFF TO CENTER, GFI TYPE

FJ — POKE-THRU FLOOR JUNCTION BOX, 4"ø, FIRE-RATED, BRASS FINISH; HUBBELL SIPTBRSJ WITH SISPDUSL SUB-PLATE,

EXISTING FLOOR MOUNTED DUPLEX RECEPTACLE TO REMAIN, PROVIDE NEW SCREW-IN COVERS (COORDINATE REPLACEMENT COVERS IN THE FIELD)

ELECTRICAL PANEL

3 E1.0 Electrical Legend

ELECTRICAL NOTES:
1. ALL WORK SHALL CONFORM TO THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE AND ALL APPLICABLE STATE AND LOCAL CODES.
2. ALL GROUND FAULT CIRCUIT INTERRUPTING (GFI) RECEPTACLES SHALL BE 20 AMPERE (HUBBELL CATALOG NO. GF5352, OR EQUAL). ALL 120VAC RECEPTACLES SHALL BE 20 AMPERE RATED (HUBBELL CATALOG NO. 5362, OR EQUAL). ALL RECEPTACLES SHALL BE IVORY IN COLOR. ALL RECEPTACLE COVERPLATES SHALL BE SMOOTH NYLON.
3. ALL EXTERIOR RECEPTACLES AND DISCONNECT DEVICES SHALL BE RATED NEMA 3R AS A MINIMUM.
4. RECEPTACLE WIRE SHALL BE #12AWG COPPER WIRE, EXCEPT AS NOTED, TYPE THHN.
5. LUMINAIRE WIRE SHALL BE #12AWG COPPER WIRE, TYPE THHN, UNLESS OTHERWISE NOTED.
6. ALL LUMINAIRES AND RECEPTACLES SHALL BE GROUNDED TO THE GROUND BUS OF THE POWER DISTRIBUTION PANEL FROM WHICH THEY ARE FED. THIS GROUND WIRE SHALL BE #12AWG WITH A GREEN JACKET. ALL GROUND WIRE SHALL BE SIZED IN ACCORDANCE WITH NEC 250-122.
7. UNLESS OTHERWISE NOTED, SWITCH LOCATIONS ARE SHOWN FOR REFERENCE ONLY, REFER TO ARCHITECTURAL PLANS FOR DOOR SWINGS TO ENSURE PROPER SWITCH PLACEMENT. ALL LIGHT SWITCHES SHALL BE IVORY IN COLOR. ALL SWITCH COVERPLATES SHALL BE SMOOTH NYLON.
8. ELECTRICAL CONTRACTOR SHALL SUPPLY ALL CONDUIT, CONDUIT FITTINGS, ETC. CONDUITS SHALL BE SIZED IN ACCORDANCE WITH THE CURRENT NATIONAL ELECTRIC CODE.
9. UNLESS OTHERWISE NOTED, ALL CIRCUITS PROTECTED BY EITHER A 15 OR 20 AMPERE CIRCUIT BREAKER SHALL BE SUPPLIED VIA #12AWG, COPPER CABLE.
10. THE ELECTRICAL DRAWINGS WHICH SHOW THE WORK INCLUDED ARE DIAGRAMMATIC ONLY; THE LOCATIONS, ROUTING, ETC., OF THE VARIOUS FIXTURES, ITEMS OF EQUIPMENT, WIRING, ETC., ARE APPROXIMATE ONLY. THE ENTIRE INSTALLATION IS SUBJECT TO SUCH DEVIATIONS, MODIFICATIONS, REROUTING, ETC., AS MAY BE NECESSARY TO MEET THE REQUIREMENTS OF THE ARCHITECTURAL, STRUCTURAL, AND OTHER DRAWINGS; AND ALSO AS NECESSARY TO OBTAIN A PROPER COORDINATION OF THE WORK WITH THAT OF ALL OTHER TRADES.
11. CHECK MOTOR ROTATION AND CONNECT FOR PROPER ROTATION, CHECK OVERLOAD HEATER ELEMENT FURNISHED WITH STARTERS AGAINST NAMEPLATE RATING OR MOTOR AND CODE, CALL ATTENTION TO IMPROPER SIZES TO MECHANICAL CONTRACTOR AND ARCHITECT. ELECTRICAL CONTRACTOR SHALL VERIFY THAT ALL MOTORS ARE EQUIPPED WITH VENDOR SUPPLIED OVERLOAD DEVICES. CONNECT ALL MOTORS WITH SHORT LENGTH OF FLEXIBLE CONDUIT UTILIZING THE PROPER TYPE CONNECTOR FOR USE WITH THE TYPE CONDUIT INSTALLED. CONNECT ALL MOTORS AND CONTROLS COMPLETELY, NEATLY, ORDERLY, AND PROPERLY TAGGED TO PROPER OPERATION OF SYSTEM INVOLVED.
12. FURNISH AND INSTALL ALL CONDUIT AND WIRING NECESSARY FOR THE POWER SUPPLY OF PLUMBING AND HEATING, VENTILATING AND AIR CONDITIONING EQUIPMENT. FURNISH AND INSTALL DISCONNECT SWITCHES WITH THE MOTORS WHERE REQUIRED BY THE NATIONAL ELECTRIC CODE. REFER TO THE PLUMBING, HEATING, AND AIR CONDITIONING DRAWINGS AND SPECIFICATIONS.
13. CHECK SERVICE REQUIRED BY EQUIPMENT PRIOR TO MAKING FINAL CONNECTIONS. CALL DIFFERENCES TO ATTENTION OF ARCHITECT. CHECK EQUIPMENT FOR PROPER PROTECTIVE DEVICES AND SAFETY DEVICES TO ALLOW PROPER OPERATION OF EQUIPMENT AND PREVENT BURNOUT. ASSIST OWNER IN INITIAL OPERATION OF EQUIPMENT AN MAKE NECESSARY ADJUSTMENT FOR PROPER OPERATION.
14. GIVE ALL EQUIPMENT FURNISHED IN THE CONTRACT AN OPERATIONAL TEST PRIOR TO FINAL ACCEPTANCE. ASSIST THE OWNER IN THE INITIAL OPERATION WHEN THE OWNER OPERATES THE BUILDING AND EQUIPMENT. INSTRUCT THE OWNER'S PERSONNEL IN THE PROPER OPERATION AND MAINTENANCE OF ALL THE EQUIPMENT FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS.
15. COORDINATE ELECTRICAL WORK WITH ROOFING WORK IN REGARD TO ANY ELECTRICAL ITEMS WHICH MAY PIERCE OR OTHERWISE AFFECT THE ROOF. HOLD CONSULTATION WELL IN ADVANCE OF THE INSTALLATION OF THE FINAL ROOFING AND ALLOW SUFFICIENT TIME FOR THE ROOFING WORK TO BE PREPARED FOR THE ELECTRICAL WORK. ARRANGE FOR ANY CUTTING OR REPAIRING TO ROOFING WHICH MIGHT ALREADY BE INSTALLED WHEN AN ELECTRICAL INSTALLATION IS MADE. SEE ROOFING SPECIFICATION FOR ROOFING WITH RELATION TO WORK OF OTHER TRADES PIERCING THE ROOF. IF NECESSARY CONSULTATION IS NOT HELD, ANY ROOF REPAIRS NECESSITATED BY THE ELECTRICAL INSTALLATION SHALL COME UNDER THE SCOPE OF THE WORK UNDER THIS SECTION.
16. WHERE CONDUIT PENETRATES FIRE-RATED WALLS, THE SPACE BETWEEN THE PENETRATION ITEM AND THE FIRE BARRIER WALL SHALL BE PROPERLY PROTECTED. THE SPACE ADJOINING THE CONDUIT PENETRATION SHALL BE FILLED WITH MATERIAL CAPABLE OF MAINTAINING THE FIRE RATING OF THE FIRE BARRIER, OR IT SHALL BE PROTECTED BY AN APPROVED DEVICE DESIGNED FOR THIS SPECIFIC PURPOSE. WHERE PENETRATING SLEEVES ARE USED, THE SLEEVES SHALL BE SOLIDLY SET IN THIS FIRE BARRIER WALL, AND THE SPACE BETWEEN THE CONDUIT AND THE SLEEVE SHALL BE FILLED WITH MATERIAL CAPABLE OF MAINTAINING THE FIRE RESISTANCE OF THE FIRE-RATED WALL. ALL FIRE RATED WALL PENETRATIONS SHALL BE INSTALLED IN A MANNER THAT WILL PROVIDE AN UNDERWRITERS LABORATORIES (UL) LISTED PENETRATION ASSEMBLY.
17. UNLESS OTHERWISE NOTED, ALL CABLE SUPPLYING LOADS SHALL BE SIZED TO PROVIDE AMPACITY EQUAL TO, OR GREATER, THAN THE SUPPLY CIRCUIT BREAKER TRIP RATING.
18. FOR 120VAC CIRCUIT LENGTHS LESS THAN 75 FEET IN LENGTH, RECEPTACLE WIRE SHALL BE #12AWG COPPER WIRE, TYPE THHN. FOR 120VAC CIRCUIT LENGTHS GREATER THAN 75 FEET BUT LESS THAN 140 FEET, RECEPTACLE WIRE SHALL BE #10AWG COPPER WIRE, TYPE THHN. FOR 120VAC CIRCUIT LENGTHS GREATER THAN 140 FEET, RECEPTACLE WIRE SHALL BE #8AWG COPPER WIRE, TYPE THHN.
METAL-CLAD (TYPE MC) CABLE MAY BE USED IN CONCEALED LOCATIONS IN LIEU OF CONDUIT & CABLE AND AS ALLOWED BY NEC ARTICLE 330.
19. WHERE NEW WIRING DEVICES ARE TO BE INSTALLED ON EXISTING WALLS (i.e. SURFACE MOUNTED), ALL DEVICES AND CABLE SHALL BE INSTALLED UTILIZING SURFACE-MOUNTED RACEWAY (WIREMOLD V500, OR EQUAL, IVORY COLOR) ROUTED VERTICALLY FROM THE CEILING TO THE INDICATED LOCATIONS.

4 E1.0 Electrical Notes

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
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RICKY L. SEBRING

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DATE	NOTES
04-07-17	Review
04-19-17	Coordination
3/1/2018	REVISION # 1

E1.0

University of South Carolina -Beaufort
Pre Bid Sign In Sheet
Beaufort, South Carolina

Project Name: USC Beaufort Marine Biology 2nd Floor Laboratory Renovation
Project Number: H36-1314
Pre Bid Date & Time: February 22, 2018; 10:00 am

Pg 1 of 2

SWMBE?	Name	Company Name	Address	Phone #	Email
Yes No	LANCE GOODING	GOODING CONTRACTORS	19 B MARKET SUITE 1 BEAUFORT	843 846 0007	LANCE@ GOODINGCONTRACTORS.COM
Yes No	Shawn Epps	FOME	312 Devine St. Columbia SC	803- 413- 3346	sepps@fmecol.com
Yes No	Walter Lowa	Mika		803 463 1238	Mathew@ Mikacontracting.com
Yes No	David Summerall	Patterson Construction	10-C BURTON HILL RD BEAUFORT 29906	843 812 2951	davids@pat const.com

****By signing this sheet you agree to receive information electronically.*

University of South Carolina -Beaufort
Pre Bid Sign In Sheet
Beaufort, South Carolina

Project Name: USC Beaufort Marine Biology 2nd Floor Laboratory Renovation
Project Number: H36-1314
Pre Bid Date & Time: February 22, 2018; 10:00 am

SWMBE?	Name	Company Name	Address	Phone #	Email
Yes No	Dwight Jones	USCB Facilities	1 University Parkway Bluffton SC	404 915 5413	dhjones@USCB.Edu
Yes No					
Yes No					
Yes No					

****By signing this sheet you agree to receive information electronically.