



VETERAN VICTORY HOUSE LAUNDRY ROOM AHU REPLACEMENTS

SOUTH CAROLINA DEPARTMENT OF
VETERANS' AFFAIRS

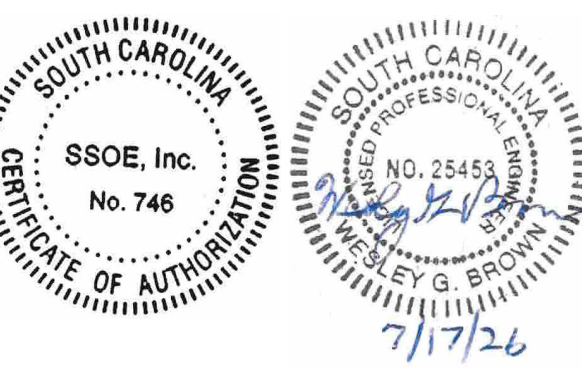
2461 SIDNEYS RD, WALTERBORO, SC 29488

SSOE PROJECT NUMBER: 0210044302

SCDVA PROJECT NUMBER: E26-N003-AT



PROFESSIONAL SEALS:



CONSULTANTS:

[illegible]

☒ APPROVED FOR CONSTRUCTION
☐ NOT APPROVED FOR CONSTRUCTION

CLIENT INFORMATION:

SCDVA



800 SAINT JULIAN PLACE, SUITE 305
COLUMBIA, SC
29204

SCDVA PROJECT #: E26-N003-AT

PROJECT INFORMATION:

VETERANS VICTORY HOUSE LAUNDRY ROOM AHU REPLACEMENTS

61 SIDNEYS RD
LTERBORO,SC
29488

SSOE PROJECT #:	0210044302
SSOE MANAGER:	ERIC KELLERHALS

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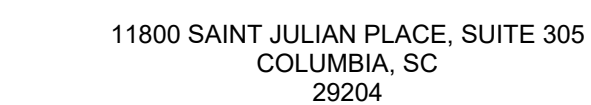
PROFESSIONAL SEALS:

SEAL 1 (Left): SOUTH CAROLINA, SSOE, Inc., No. 746, CERTIFICATE OF AUTHORIZATION.

SEAL 2 (Right): SOUTH CAROLINA, WESLEY G. BROWN, No. 25453, with signature and date 7/17/26.

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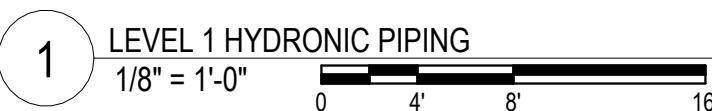
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LEVEL 1 HVAC

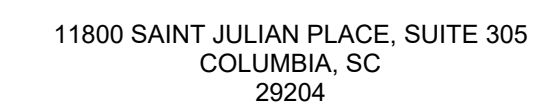
M-110



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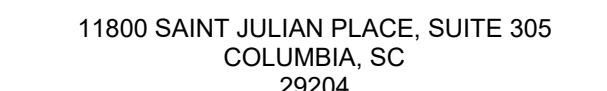
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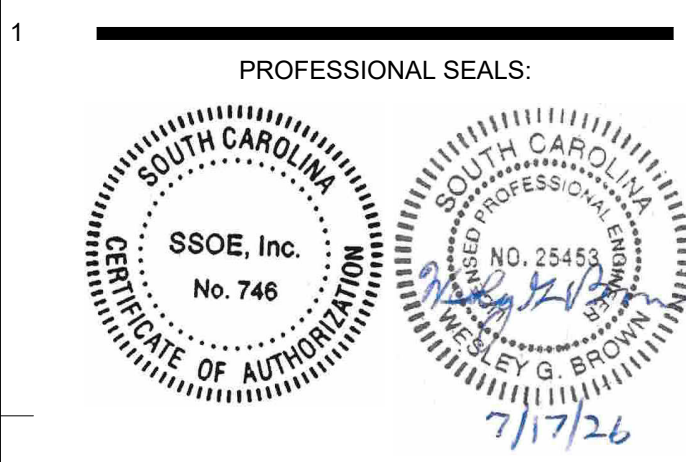
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M-502

	A	B	C	D	E	F	G	H	I
	ELECTRICAL SPECIFICATIONS								
	GENERAL:								
	THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WORK, EQUIPMENT, SERVICES, LABOR, AND MATERIALS FOR THE INSTALLATION OF COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEMS AS SPECIFIED, SHOWN, OR IMPLIED HEREIN AND ON THE ASSOCIATED DRAWINGS. THE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO INCLUDE EVERY DETAIL OF CONSTRUCTION, MATERIALS, AND EQUIPMENT. TAKE FINISH DIMENSIONS AT THE JOB SITE IN PREFERENCE TO SCALING DIMENSIONS.								
1	REVIEW THE CONSTRUCTION DOCUMENTS OF ALL TRADES AND COORDINATE WORK WITH THE OTHER TRADES AS NECESSARY TO AVOID CONFLICTS AND INTERFERENCE. THE CONTRACTOR (HENCE FORTH MEANING THE ELECTRICAL CONTRACTOR) SHALL VISIT THE SITE OF PROPOSED CONSTRUCTION AND SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING FIELD CONDITIONS AND VERIFY ALL ASPECTS OF THE PROPOSED WORK AS DESCRIBED OR IMPLIED BY THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE COMPENSATED OR REIMBURSED FOR WORK NOT NECESSARILY SHOWN ON THE CONTRACT DOCUMENTS THAT COULD HAVE REASONABLY BEEN VERIFIED BY A SITE VISIT.								
	ALL WORK AND MATERIALS SHALL BE IN COMPLIANCE WITH APPLICABLE NATIONAL, STATE, AND LOCAL CODES. COMPLIANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS SHALL SERVE AS THE ABSOLUTE MINIMUM STANDARDS. THE REGULATIONS OF THE LOCAL UTILITY SHALL GOVERN SERVICE CONNECTIONS AND METERING PROVISIONS. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ANY AND ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES OF INSPECTIONS AND APPROVAL, AND THE LIKE, AND DELIVER SUCH CERTIFICATES TO THE ARCHITECT. THE ARCHITECT SHALL BE NOTIFIED OF ALL INSPECTION REQUESTS AT THE SAME TIME AS THE INSPECTION AUTHORITY.								
	ALL MATERIALS SHALL BE NEW AND SHALL BE LISTED AND LABELED BY THE UNDERWRITER'S LABORATORIES (UL), FOR THE USE INTENDED. PROVIDE NEMA 1 ENCLOSURES FOR ELECTRICAL APPARATUS INSTALLED IN INTERIOR LOCATIONS AND NEMA 3R OR WEATHERPROOF ENCLOSURES FOR ELECTRICAL APPARATUS INSTALLED IN EXTERIOR LOCATIONS OR LOCATIONS OTHERWISE SUBJECT TO WEATHER OR MOISTURE.								
	A COMPLETE TEST OF ALL EQUIPMENT FURNISHED, INSTALLED, OR PROVIDED UNDER THIS CONTRACT SHALL BE PROVIDED BY THE CONTRACTOR. TESTING SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL CODES. THE CONTRACTOR SHALL WARRANT ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP SHOWN OR IMPLIED BY THESE DOCUMENTS TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. IF WITHIN ONE YEAR OF THE DATE OF FINAL ACCEPTANCE ANY WORKMANSHIP, MATERIALS OR EQUIPMENT IS FOUND TO BE FAULTY OR DEFECTIVE THE CONTRACTOR SHALL CORRECT IT PROMPTLY AT NO COST TO THE OWNER. THE CONTRACTOR SHALL OBTAIN A SIGNED AND NOTARIZED INSPECTION CERTIFICATE OF HIS WORK FROM THE LOCAL BUILDING INSPECTOR AND PRESENT IT TO THE ARCHITECT BEFORE WORK WILL BE APPROVED FOR FINAL PAYMENT.								
	DEMOLITION:								
	MECHANICALLY AND ELECTRICALLY SECURE ALL ELECTRICAL CONDUIT AND CONDUCTORS WHICH ARE ABANDONED. ABANDONED WIRING SHALL BE REMOVED BACK TO THE OVER CURRENT DEVICE WHICH PROTECTS IT. ABANDONED CONDUIT SHALL BE REMOVED ENTIRELY. EXISTING ELECTRICAL OUTLETS NOT SHOWN AS BEING ABANDONED OR REMOVED SHALL BE RECONNECTED AS REQUIRED. ALL ELECTRICAL DEVICES TO BE REMAIN SHALL INSPECTED, CLEANED AND REPAIRED OR REPLACED AS NECESSARY. MODIFY CIRCUITS TO EXISTING DEVICES, LIGHT FIXTURES AND EQUIPMENT SHOWN TO REMAIN IN ORDER TO MAINTAIN CONTINUITY OF POWER AND GROUNDING. RECONNECT CIRCUITS TO LOADS IN OTHER AREAS OF THE BUILDING OR SITE WHICH ARE AFFECTED BY DEMOLITION WORK.								
2	PROVIDE NEW REVISED, TYPED PANELBOARD DIRECTORIES FOR EXISTING PANELBOARDS TO REFLECT NEW CIRCUIT CONDITIONS AS A RESULT OF CONSTRUCTION AND DEMOLITION. REPLACE ALL EXISTING DEVICES AND THE ASSOCIATED COVER PLATES WITH NEW DEVICES AND COVER PLATES TO MATCH THAT USED FOR RENOVATED AREAS AND NEW CONSTRUCTION. ALSO, WHERE NEW FINISHES ARE PLACED ON OR OVER EXISTING FINISHES EXTEND OUTLET BOXES TO ACCOMMODATE THE NEW FINISHES. EXISTING CONDUIT AND CONDUCTORS MAY BE REUSED WHERE THEY ARE OF THE TYPE SPECIFIED, MEET THE REQUIREMENTS OF NEW CIRCUITS, AND REMAIN IN GOOD CONDITION.								
	GROUNDING:								
	GROUNDING SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE NATIONAL ELECTRICAL CODE AND DETAILS SHOWN ON THE PLANS. GROUND ALL CONDUITS, CABINETS, MOTORS, PANELS, AND OTHER EXPOSED NON CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ALL PROVISIONS OF THE NATIONAL ELECTRICAL CODE AND LOCAL CODES. PROVIDE INSULATED GROUNDING CONDUCTORS IN ALL CONDUITS. GROUND WIRE TO BE SIZED IN ACCORDANCE WITH N.E.C. ARTICLE 250.122. GROUNDING CONDUCTORS SHALL BE PROVIDED IN ALL BRANCH CIRCUIT RACEWAYS AND CABLE AND RACEWAY SIZES INCREASED AS REQUIRED BY RACEWAY FILL LIMITATIONS OF THE NATIONAL ELECTRICAL CODE.								
	ALL MOTORS SHALL BE GROUNDED BY DRILLING AND TAPPING THE BOTTOM OF THE MOTOR JUNCTION BOX AND ATTACHING THE GROUNDING CONDUCTOR TO THE BOX WITH A ROUND HEAD BOLT USED FOR NO OTHER PURPOSE. CONDUCTOR ATTACHMENT SHALL BE THRU THE USE OF A LUG ATTACHED TO CONDUCTOR WITH CRIMPING TOOL.								
	CONDUIT: CONDUIT SHALL BE REPUBLIC OR EQUAL.								
	CONDUIT SHALL BE MINIMUM 3/4-INCH SIZE AND ZINC-COATED ELECTRICAL METALLIC TUBING (EMT) EXCEPT IN WET, DAMP WASH/DOWN AREAS (INCLUDING KITCHENS) WHERE GALVANIZED RIGID STEEL CONDUIT (GRS) OR INTERMEDIATE METAL CONDUIT (IMC) SHALL BE USED. EMT SHALL CONFORM TO UL 1242, NEC 342 AND ANSI C80.3. GRS SHALL BE SCHEDULE 40S STEEL WITH SURFACES PROTECTED BY METALLIC ZINC COATING AND SHALL CONFORM TO ANSI C80.1.								
	EMT FITTINGS SHALL BE GALVANIZED, STEEL COMPRESSION TYPE. EMT CONNECTORS SHALL HAVE INSULATED THROATS WHICH ARE AN INTEGRAL PART OF THE CONNECTOR. USE OF INSULATING SLEEVES IS NOT PERMITTED. GRS OR IMC CONDUIT ENTERING A BOX OR ENCLOSURE SHALL BE TERMINATED WITH A BUSHING. INSTALL BOND BUSHINGS WHERE REQUIRED BY THE NEC. FLEXIBLE CONDUIT CONNECTORS SHALL BE T&B NYLON INSULATED "TITE-BITE". INSTALL FLEXIBLE METAL CONDUIT FOR ALL FINAL CONNECTIONS TO MOTORS, TRANSFORMERS, AND TO OTHER EQUIPMENT, DEVICES AND APPLIANCES WHERE SUBJECT TO VIBRATION. USE LIQUID-TIGHT FLEXIBLE METAL CONDUIT IN KITCHENS, OUTDOORS AND ANY OTHER LOCATIONS SUBJECT TO MOISTURE.								
3	SECURE CONDUITS WITH STRAPS AND CLAMPS MANUFACTURED FOR THE PURPOSE. THE WIRE AND THE WRAPS ARE NOT ALLOWED TO SUPPORT OR SECURE CONDUITS. ACCEPT IN AREAS SPECIFICALLY INDICATED ON THE PLANS, CONDUIT SHALL BE RUN CONCEALED. CONDUITS SHALL BE RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL ELEMENTS AND SHALL BE RUN IN GROUPS, WHERE RUN AT THE ROOF OR CEILING, GROUPINGS SHALL BE SINGLE DEPTH AND RUN TIGHT AGAINST THE STRUCTURE. FOR MULTIPLE DEPTH GROUPINGS AND OTHER SITUATIONS, A TRAPEZOID ARRANGEMENT USING THREADED RODS OF SUFFICIENT SUPPORTING STRENGTH WILL PERMITTED. ALL CONDUITS SHALL BE KEPT A MINIMUM OF 6-INCHES AWAY FROM PARALLEL RUNS OF STEAM OR HOT WATER PIPES AND FLUES.								
	PROVIDE APPROVED SEALS FOR ALL WORK INSTALLED IN HAZARDOUS AREAS AS REQUIRED BY NEC. ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR PARTITIONS SHALL BE SEALED TO PREVENT THE SPREAD OF SMOKE AND FIRE THROUGH THEM. THE FIRE RATING OF THE PENETRATION SEAL SHALL BE AT LEAST THAT OF THE FLOOR OR WALL INTO WHICH IT IS INSTALLED BY ARTICLE 300.21 OF THE NATIONAL ELECTRICAL CODE. THE FOAM SEALANT SHALL MEET ALL OF THE FIRE TEST AND HOSE STREAM TEST REQUIREMENTS OF ASTM E-119-73 AND SHALL BE U.L. CLASSIFIED AS A WALL OPENING PROTECTIVE DEVICE.								
	PROVIDE ACCESS DOORS IN WALLS AND CEILINGS FOR ACCESS TO PULL BOXES ACCESSORIES, ETC., UNDER THE ELECTRICAL CONTRACT. DOORS SHALL BE SIZED AS REQUIRED (MINIMUM 16-INCHES X 16-INCHES) WITH A FINISH TO MATCH THAT OF THE SURFACE IN WHICH IT IS INSTALLED.								
	PROVIDE A MINIMUM 100 POUND TEST, NYLON PULL CORD IN ALL EMPTY CONDUITS. CONDUIT PENETRATIONS THROUGH FIRE-RATED WALLS OR FLOOR SLABS SHALL BE SEALED WITH IMPERVIOUS, NON-COMBUSTIBLE MATERIALS IN SUCH A MANNER THAT THE ORIGINAL FIRE RATING IS RESTORED. CONDUIT PENETRATING BLOCK WALLS SHALL BE SLEEVED AND THEN SEALED. ALSO SEAL ALL WALL AND FLOOR PENETRATIONS LEFT ONCE CONDUIT TO BE DEMOLISHED HAS BEEN REMOVED. PROVIDE A UL THROUGH FIRE STOP PENETRATION SYSTEM FOR ALL CONDUITS/RACEWAY THE PENETRATE RATED WALLS AND FLOORS. SEE ARCHITECTURAL PLANS FOR LOCATIONS & RATINGS OF FIRE RATED WALLS AND FLOORS.								



CONSULTANTS:

SUBMITTAL/REVISION SCHEDULE:

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2461 SIDNEYS RD
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SSOE PROJECT #:	0210044302
SSOE MANAGER:	ERIC KELLERHALS

SSOE REQUEST #:	0210044502
SSOE MANAGER:	ERIC KELLERHALS

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ELECTRICAL

E-001

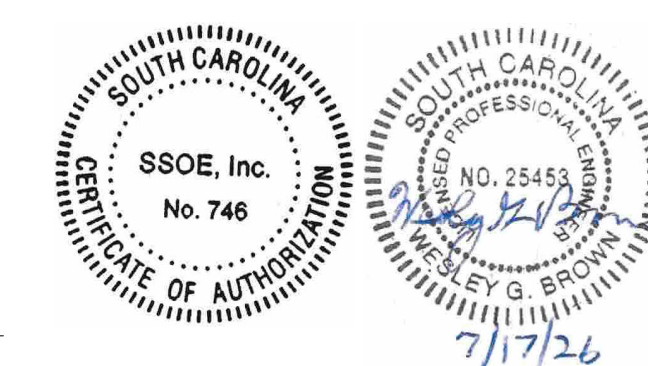


KEYNOTES

- | | |
|----|---|
| E1 | DISCONNECT EXISTING POWER FEEDER TO UNIT AND CAP CONDUCTORS IN A J-BOX LABELED WITH THE EXISTING CIRCUIT NUMBER. PROVIDE NEW 20kV/120V BRANCH CIRCUIT FROM EXISTING 208V/120V PANEL IN SPACE 118 TO THE NEW 20kV/120V PANEL PROVIDE NEW 20kV/120V CB IN EXISTING SIEMENS'S PANELBOARD IN SPACE 118 |
| E2 | DISCONNECT EXISTING POWER FEEDER TO UNIT AND EXTEND THIS FEEDER TO THE NEW OUTDOOR AHU VIA A WALL MOUNTED, FUSED SAFETY SWITCH, WITH 30kV & 10kV IN 34" EXTEND THE NEW 20kV/120V BRANCH CIRCUIT FROM EXISTING 208V/120V PANEL IN VBOX AT THIS LOCATION, USING 3/4" 24" 24" & 1/2" 12" |
| E3 | CONNECT HEAT TRACE TO NEW 20kV/120V BRANCH CIRCUIT FROM EXISTING 208V/120V PANEL. PROVIDE NEW 20kV/120V CB IN EXISTING 208V/120V PANEL IN SPACE 118. PROVIDE NEW 20kV/120V WITH 2" 24" 24" 1/2" 12" AND SHALL BE ROUTED THRU A WALL MOUNTED GFCI RECEPTACLE W/ WEATHERPROOF WHILE IN COVER. FEED HEAT TRACE FROM THE "P" TERMINAL TO THE "R" TERMINAL |



PROFESSIONAL SEALS



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LEVEL 1 ELECTRICAL

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