

February 2, 2012

Garvin Design Group  
1209 Lincoln St.  
Columbia, SC 29201

**ADDENDUM NO. 2**

The following items shall take precedence over the drawings and specifications for the above named project and shall become a part of the contract documents. Where any item called for in the specifications, or indicated on the drawings, is not supplemented hereby, the original requirements shall remain in effect. Where any original item is amended, voided, or superseded hereby, the provisions of such item not specifically amended, voided or superseded shall remain in effect.

**General:**

1. Note to Bidders: Reference SE-330 Bid Form. Pursuant to paragraph 8 on page BF 3, the Owner requests that the Bidder submit the names of the Steel Supplier and the Steel Erector that he intends to use on this project to the Owner by 4:00 PM on bid day.
2. Note to Bidders: Reference Section 01000-Special Conditions and Requirements. At paragraph 1.3.B., add the following clarification: "The General Contractor will be responsible for the rental of a temporary video board up to a maximum of \$15,000.00 per week plus a maximum cost of \$30,000.00 for initial set up and final removal."

**Specifications**

**Item No.      Description**

1. Revision: Reference SE-330 Bid Form. Delete this document in its entirety and add the revised SE-330 Bid Form attached to this addendum.
2. Revision: Reference Section 01220 – Unit Prices. Add this Section to the Specifications. A copy of this Section is attached to this Addendum.
3. Revision: Reference Section 05521 – Pipe and Tube Railings. At paragraph 2.4, add the following: "F. Shop Primers: Provide primers that comply with Section 09960-High-Performance Coatings."; At paragraph 2.6.C., delete this paragraph in its entirety.; At paragraph 2.7.D., delete this paragraph in its entirety.; At paragraph 2.7, add the following: "D. Do not quench or apply post galvanizing treatments that might interfere with paint adhesion."; At paragraph 2.7, add the following: "E. Preparing Galvanized Railings for Shop Priming: After galvanizing, thoroughly clean railings of grease, dirt, oil, flux, and other foreign matter, and treat with etching cleaner."
4. Revision: Reference Section 07415 – Composite Wall Panels. At paragraph 2.4.B.4.a., add the following: "Color P-1 indicated on the Drawings shall be a custom color (Light Gray). Color P-2 indicated on the Drawings shall be a custom color (Dark Gray). Color P-3 indicated on the Drawings shall be a custom color (Garnet).

5. Revision: Reference Section 07542 – Thermoplastic Polyolefin (TPO) Roofing. At paragraph 2.3.B., delete this paragraph in its entirety and add the following: “2.3.B. Polyisocyanurate Board Insulation: ASTM C 1289, Type II, Class 1, Grade 2, felt or glass-fiber mat facer on both major surfaces. Minimum thickness: 1/2-inch.”

### Drawings

<u>Item No.</u>	<u>Description</u>
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- |    |  |
|----|--|
| 1. | Revision: Reference Drawing E1.1. Add the following to the Electrical Notes on this sheet:<br>“4. All the control equipment would likely be located close to the video board structure.<br>5. Provide hardware and coordinate an Ethernet fiber link with the Owner to connect control computer to video board lighting gear.” |
| 2. | Revision: Reference Drawing E1.1. Subject to complete compliance to contract document specifications, the following are approved manufacturers/products for the lighting fixtures:<br><br>A. LumenPulse Lumenfacade Dynamic White Series.<br>B. Traxon Liner Shield AC XB DW Series.   |
| 3. | Revision: Reference Drawing S3.0. See attached Sketch S-SK-5 for revisions to Load Table.  |
| 4. | Revision: Reference Drawing S3.1. See attached Sketch S-SK-6 for revision to Structural Notes.   |

END OF ADDENDUM NO. 2

Attachments: **SE-330 Bid Form**, pages BF-1, BF-1A, BF-2, BF-2A, BF-3, and BF-4; **Specification Section 01220-Unit Prices**, pages 01220-1 and 01220-2; Sketches S-SK-5 and S-SK-6.

**SE-330 – LUMP SUM BID  
BID FORM**

*Bidders shall submit bids on only Bid Form SE-330.*

**BID SUBMITTED BY:** \_\_\_\_\_  
(Bidder's Name)

**BID SUBMITTED TO:** University of South Carolina  
(Owner's Name)

**FOR PROJECT: PROJECT NAME** Williams-Brice Stadium Video Board Support Construction  
**PROJECT NUMBER** H27-6089-MJ

**OFFER**

§ 1. In response to the Invitation for Construction Bids and in compliance with the Instructions to Bidders for the above-named Project, the undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into a Contract with the Owner on the terms included in the Bidding Documents, and to perform all Work as specified or indicated in the Bidding Documents, for the prices and within the time frames indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

§ 2. Pursuant to Section 11-32-3030(1) of the SC Code of Laws, as amended, Bidder has submitted Bid Security as follows in the amount and form required by the Bidding Documents:

- Bid Bond with Power of Attorney     Electronic Bid Bond     Cashier's Check

*(Bidder check one)*

§ 3. Bidder acknowledges the receipt of the following Addenda to the Bidding Documents and has incorporated the effects of said Addenda into this Bid:

**ADDENDUM No:** \_\_\_\_\_

§ 4. Bidder accepts all terms and conditions of the Invitation for Bids, including, without limitation, those dealing with the disposition of Bid Security. Bidder agrees that this Bid, including all Bid Alternates, if any, may not be revoked or withdrawn after the opening of bids, and shall remain open for acceptance for a period of 60 Days following the Bid Date, or for such longer period of time that Bidder may agree to in writing upon request of the Owner.

§ 5. Bidder herewith offers to provide all labor, materials, equipment, tools of trades and labor, accessories, appliances, warranties and guarantees, and to pay all royalties, fees, permits, licenses and applicable taxes necessary to complete the following items of construction work:

**§ 6.1 BASE BID WORK** *(as indicated in the Bidding Documents and generally described as follows):* Construction of a steel structure to support a new video board over the existing Floyd Football Building including concrete foundations, steel structures, aluminum composite panels, aluminum curtainwalls, roofing, roof drains and piping, electrical conduit and devices, metal fabrications, concrete steps and ramps, site/utility work, selective demolition of site appurtenances and existing video board support structures..

\_\_\_\_\_, which sum is hereafter called the Base Bid.

*(Bidder - insert Base Bid Amount on line above)*

**SE-330 – LUMP SUM BID  
BID FORM**

§ 6.2 BID ALTERNATES - as indicated in the Bidding Documents and generally described as follows:

**ALTERNATE # 1** (*Brief Description*): Provide and install LED lighting fixtures and all electrical conduit and devices associated with the installation of the LED lighting fixtures as indicated on the Electrical Drawings and Specifications. Provide and install the aluminum breakmetal panels that mount behind the LED lighting fixtures and are attached to the aluminum curtainwall framing as indicated on the Drawings and Specifications.

**ADD TO** or  **DEDUCT FROM BASE BID:** \_\_\_\_\_

(Bidder to Mark appropriate box to clearly indicate the price adjustment offered for each alternate)

**ALTERNATE # 2** (*Brief Description*): N/A

**ADD TO** or  **DEDUCT FROM BASE BID:** \_\_\_\_\_

(Bidder to Mark appropriate box to clearly indicate the price adjustment offered for each alternate)

**ALTERNATE # 3** (*Brief Description*): N/A

**ADD TO** or  **DEDUCT FROM BASE BID:** \_\_\_\_\_

(Bidder to Mark appropriate box to clearly indicate the price adjustment offered for each alternate)

**§ 6.3 UNIT PRICE WORK**

Bidder offers for the Agency's consideration and use the following **UNIT PRICES**. The **UNIT PRICES** offered by Bidder indicate the amount to be added to or deducted from the Contract Sum for each item-unit combination. **UNIT PRICES** include all costs to the Agency, including those for materials, labor, equipment, tools of trades and labor, fees, taxes, insurance, bonding, overhead, profit, etc. The Agency reserves the right to include or not to include any of the following **UNIT PRICES** in the Contract and to negotiate the **UNIT PRICES** with Bidder.

<u>NO.</u>	<u>ITEM</u>	<u>UNIT OF MEASURE</u>	<u>ADD</u>	<u>DEDUCT</u>
1.	Length of Caisson	Linear Feet		

**SE-330 – LUMP SUM BID  
 BID FORM**

§ 7. LISTING OF PROPOSED SUBCONTRACTORS PURSUANT TO SECTION 3020(b)(i), CHAPTER 35, TITLE 11 OF THE SOUTH CAROLINA CODE OF LAWS, AS AMENDED – (See Instructions on the following page BF-2A)

Bidder shall use the below-listed Subcontractors in the performance of the Subcontractor Specialty work listed:

<b>SUBCONTRACTOR            SPECIALTY</b> <b>By License Classification            and/or Subclassification</b> (Completed by Owner)	<b>SUBCONTRACTOR'S            PRIME CONTRACTOR'S            NAME</b> (Must be completed by Bidder) <b>BASE BID</b>	<b>SUBCONTRACTOR'S            PRIME CONTRACTOR'S            SC LICENSE NUMBER</b>
N/A	N/A	N/A
<b>ALTERNATE 1</b>		
N/A	N/A	N/A
<b>ALTERNATE 2</b>		
N/A	N/A	N/A
<b>ALTERNATE 3</b>		
N/A	N/A	N/A

If a Bid Alternate is accepted, Subcontractors listed for the Bid Alternate shall be used for the work of both the Alternate and the Base Bid work.

## **INSTRUCTIONS FOR SUBCONTRACTOR LISTING**

1. Section 7 of the Bid Form sets forth a list of subcontractor specialties for which bidder is required to identify by name the subcontractor(s) Bidder will use to perform the work of each listed specialty. Bidder must identify only the subcontractor(s) who will perform the work and no others.
2. For purposes of subcontractor listing, a Subcontractor is an entity who will perform work or render service to the prime contractor to or about the construction site. Material suppliers, manufacturers, and fabricators that will not perform physical work at the site of the project but will only supply materials or equipment to the bidder or proposed subcontractor(s) are not subcontractors and Bidder should not insert their names in the spaces provided on the bid form. Likewise, Bidder should not insert the names of sub-subcontractors in the spaces provided on the bid form but only the names of those entities with which bidder will contract directly.
3. Bidder must only insert the names of subcontractors who are qualified to perform the work of the listed specialties as specified in the Bidding Documents and South Carolina Licensing Laws.
4. If under the terms of the Bidding Documents, Bidder is qualified to perform the work of a specialty listed and Bidder does not intend to subcontract such work but to use Bidder's own employees to perform such work, the Bidder must insert its own name in the space provided for that specialty.
5. If Bidder intends to use multiple subcontractors to perform the work of a single specialty listing, Bidder must insert the name of each subcontractor Bidder will use, preferably separating the name of each by the word **“and”**. If Bidder intends to use both his own employees to perform a part of the work of a single specialty listing and to use one or more subcontractors to perform the remaining work for that specialty listing, bidder must insert his own name and the name of each subcontractor, preferably separating the name of each with the word **“and”**.
6. Bidder may not list subcontractors in the alternative nor in a form that may be reasonably construed at the time of bid opening as a listing in the alternative. A listing that requires subsequent explanation to determine whether or not it is a listing in the alternative is non-responsive. If bidder intends to use multiple entities to perform the work for a single specialty listing, bidder must clearly set forth on the bid form such intent. Bidder may accomplish this by simply inserting the word **“and”** between the name of each entity listed for that specialty. Owner will reject as non-responsive a listing that contains the names of multiple subcontractors separated by a blank space, the word **“or”**, a virgule (that is a /), or any separator that the Owner may reasonably interpret as a listing in the alternative.
7. If Bidder is awarded the contract, bidder must, except with the approval of the owner for good cause shown, use the listed entities to perform the work for which they are listed.
8. If bidder is awarded the contract, bidder will not be allowed to substitute another entity as subcontractor in place of a subcontractor listed in Section 7 of the Bid except for one or more of the reasons allowed by the SC Code of Laws.
9. Bidder's failure to insert a name for each listed specialty subcontractor will render the Bid non-responsive.

**SE-330 – LUMP SUM BID  
BID FORM**

**§ 8. LIST OF MANUFACTURERS, MATERIAL SUPPLIERS, AND SUBCONTRACTORS OTHER THAN SUBCONTRACTORS LISTED IN SECTION 7 ABOVE (FOR INFORMATION ONLY):** Pursuant to instructions in the Invitation for Bids, if any, Bidder will provide to Owner upon the Owner's request and within 24 hours of such request, a listing of manufacturers, material suppliers, and subcontractors, other than those listed in Section 7 above, that Bidder intends to use on the project. Bidder acknowledges and agrees that this list is provided for purposes of determining responsibility and not pursuant to the subcontractor listing requirements of SC Code Ann § 11-35-3020(b)(i).

**§ 9. TIME OF CONTRACT PERFORMANCE AND LIQUIDATED DAMAGES**

a. **CONTRACT TIME:** Bidder agrees that the Date of Commencement of the Work shall be established in a Notice to Proceed to be issued by the Owner. Bidder agrees to substantially complete the Work within 170 calendar days from the Date of Commencement, subject to adjustments as provided in the Contract Documents.

b. **LIQUIDATED DAMAGES:** Bidder further agrees that from the compensation to be paid, the Owner shall retain as Liquidated Damages the sum of \$500.00 for each calendar day the actual construction time required to achieve Substantial Completion exceeds the specified or adjusted time for Substantial Completion as provided in the Contract Documents. This sum is intended by the parties as the predetermined measure of compensation for actual damages, not as a penalty for nonperformance.

**§ 10. AGREEMENTS**

- a. Bidder agrees that this bid is subject to the requirements of the law of the State of South Carolina.
- b. Bidder agrees that at any time prior to the issuance of the Notice to Proceed for this Project, this Project may be canceled for the convenience of, and without cost to, the State.
- c. Bidder agrees that neither the State of South Carolina nor any of its agencies, employees or agents shall be responsible for any bid preparation costs, or any costs or charges of any type, should all bids be rejected or the Project canceled for any reason prior to the issuance of the Notice to Proceed.

**§ 11. ELECTRONIC BID BOND**

By signing below, the Principal is affirming that the identified electronic bid bond has been executed and that the Principal and Surety are firmly bound unto the State of South Carolina under the terms and conditions of the AIA Document A310, Bid Bond, included in the Bidding Documents.

**Electronic Bid Bond Number:** \_\_\_\_\_

**Signature and Title:** \_\_\_\_\_

**SE-330 – LUMP SUM BID  
BID FORM**

**BIDDER'S TAXPAYER IDENTIFICATION**

FEDERAL EMPLOYER'S IDENTIFICATION NUMBER: \_\_\_\_\_

*OR*

SOCIAL SECURITY NUMBER: \_\_\_\_\_

**CONTRACTOR'S CLASSIFICATIONS AND SUBCLASSIFICATIONS WITH LIMITATIONS**

*Classification(s) & Limits:* \_\_\_\_\_

*Subclassification(s) & Limits:* \_\_\_\_\_

*SC Contractor's License Number(s):* \_\_\_\_\_

BY SIGNING THIS BID, THE PERSON SIGNING REAFFIRMS ALL REPRESENTATIONS AND CERTIFICATIONS MADE BY BOTH THE PERSON SIGNING AND THE BIDDER, INCLUDING WITHOUT LIMITATION, THOSE APPEARING IN ARTICLE 2 OF THE INSTRUCTIONS TO BIDDER. THE INVITATION FOR BIDS, AS DEFINED IN THE INSTRUCTIONS TO BIDDERS, IS EXPRESSLY INCORPORATE BY REFERENCE.

**SIGNATURE**

**BIDDER'S LEGAL NAME:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_  
\_\_\_\_\_

**BY:** \_\_\_\_\_  
*(Signature)*

**DATE:** \_\_\_\_\_

**TITLE:** \_\_\_\_\_

**TELEPHONE:** \_\_\_\_\_

**EMAIL:** \_\_\_\_\_



SECTION 01220 - UNIT PRICES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for unit prices.
- B. Related Sections include the following:
  - 1. Division 01 Section "Contract Modification Procedures" for procedures for submitting and handling Change Orders.
  - 2. Division 01 Section "Quality Requirements" for general testing and inspecting requirements.

1.3 DEFINITIONS

- A. Unit price is an amount proposed by bidders, stated on the Bid Form, as a price per unit of measurement for materials or services added to or deducted from the Contract Sum by appropriate modification.

1.4 PROCEDURES

- A. Unit prices include all necessary material, plus cost for delivery, installation, insurance, applicable taxes, overhead, and profit.
- B. Measurement and Payment: Refer to individual Specification Sections for work that requires establishment of unit prices. Methods of measurement and payment for unit prices are specified in those Sections.
- C. Owner reserves the right to reject Contractor's measurement of work-in-place that involves use of established unit prices and to have this work measured, at Owner's expense, by an independent surveyor acceptable to Contractor.
- D. List of Unit Prices: A list of unit prices is included in Part 3. Specification Sections referenced in the schedule contain requirements for materials described under each unit price.

PART 3 - EXECUTION

3.1 LIST OF UNIT PRICES

A. Unit Price No. 1.

1. Description: Length of Caisson.
2. Unit of Measurement: Linear feet.

END OF SECTION 01220

## LOAD TABLE

2006 INTERNATIONAL BUILDING CODE AND ASCE 7-05

### LIVE LOADS:

1. FLOOR LOADS: (ASCE Table 4-1)

- A. Catwalks = 40 p.s.f.
- B. Ladders: 100 p.s.f.
- Ships Ladders W/ Treads =
- Ladders W/ Rungs = 300 lb Conc.

2. ROOF LOADS:

- A. Basic roof live load = 20 p.s.f.

Note: It shall be unlawful to place, cause or permit to be placed, on any floor or roof of a building, structure, or portion thereof, a load greater than is permitted by these requirements. (per IBC 1603.2)

### DEAD LOADS:

1. USE ACTUAL DEAD LOADS OF MATERIALS

### SNOW LOADS:

- GROUND SNOW LOAD -  $P_g = 10$  p.s.f. (ASCE Figure 7-1)
- SNOW LOAD IMPORTANCE FACTOR -  $I_s = 1.0$  (ASCE Table 7-4)
- SNOW EXPOSURE FACTOR -  $C_e = 0.9$  (ASCE Table 7-2)
- THERMAL FACTOR -  $C_t = 1.2$  (ASCE Table 7-3)
- FLAT-ROOF SNOW LOAD- $P_f = 8$  p.s.f. (ASCE Section 7.3)

### WIND LOADS:

- BASIC WIND SPEED (3-SECOND GUST) = 100 (mph) (ASCE Figure 6-1)
- BUILDING CATEGORY = II (ASCE Table 1-1)
- WIND IMPORTANCE FACTOR -  $I_w = 1.0$  (ASCE Table 6-1)
- WIND EXPOSURE = C (ASCE Section 6.5.6)
- WIND BORN DEBRIS - NO

If yes, exterior windows and doors shall have debris protection per IBC 1609.1.2.

### INTERNAL PRESSURE COEFFICIENT

Enclosed Building +/- 0.18 (ASCE Figure 6-5)

### 1. DESIGN WIND PRESSURES:

- A. Main Windforce Resisting System = 39 psf (ASCE Section 6.5.12.2)
- B. Components and Cladding (ASCE Section 6.5.12.4)

The wind pressures (and associated DP ratings) indicated below are considered as the minimum unless otherwise specified by code.

ZONE	PRESSURE	SUCTION
ROOF ZONE ①	N/A	-35.4 PSF
ROOF ZONE ②	N/A	-57.0 PSF
ROOF ZONE ③	N/A	-78.7 PSF
WALL ZONE ④	25.1 PSF	-26.9 PSF
WALL ZONE ⑤	25.1 PSF	-41.6 PSF

$a$  = width of pressure coeff. zone = 4'

Roof Net Uplift = (Zone Suction Reduced by Dead Load)

NOTE: SEE DESIGN WIND PRESSURE DISTRIBUTION DIAGRAM.

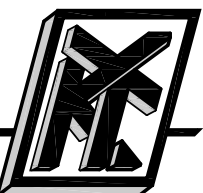
### SEISMIC LOADS:

- SITE CLASS - D (ASCE Chapter 20)
- SPECTRAL RESPONSE ACCELERATIONS (ASCE Figure 22-1 & 22-2)
  - $S_s = 0.55$   $S_1 = 0.15$
- SPECTRAL RESPONSE COEFFICIENTS (ASCE Section 11.4.4)
  - $S_{ds} = 0.50$   $S_{d1} = 0.22$
- SEISMIC IMPORTANCE FACTOR -  $I_e = 1.0$  (ASCE Table 11.5-1)
- SEISMIC DESIGN CATEGORY = D (ASCE Table 11.6-1 & 11.6-2)
- BASIC SEISMIC-FORCE RESISTING SYSTEM= (ASCE Table 12.2-1)
  - SIGNS & BILLBOARDS (NON-BUILDING STRUCTURE)
- SEISMIC RESPONSE COEFFICIENT -  $C_s = .143$  (ASCE Section 12.8.1.1)
- RESPONSE MODIFICATION FACTOR -  $R = 3.5$  (ASCE Table 12.2-1)
- DESIGN BASE SHEAR - 44 KIPS (ASCE Section 12.8)
- ANALYSIS PROCEDURE - EQUIVALENT FORCE METHOD

Much of the information presented in this load table originates from the applicable building code(s). The structural design for systems such as metal studs, exterior doors, windows, skylights, roofing systems, etc. will likely be more complicated and more building specific than indicated in this table. Designers and suppliers must refer to the applicable building codes, site conditions and architectural drawings to adequately design and / or specify their individual components and systems.



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PROJECT TITLE

**WILLIAMS-BRICE STADIUM VIDEO BOARD SUPPORT CONSTRUCTION**  
UNIVERSITY OF SOUTH CAROLINA  
COLUMBIA, SC  
STATE PROJECT NO. H27-6089-MJ

REVISION:

2

ISSUED VIA:

ADDENDUM NO.2

KT PROJECT NO:

11-136

REFERENCE:

S3.0

DATE:

2.02.12

SKETCH NO:

**S-SK-5**

**CAISSONS/DRILLED PIERS:**

1. CAISSONS SHALL BE 36 INCH DIAMETER AND CAPABLE OF RESISTING THE FOLLOWING LOADS:  
     2621 KIPS DOWNWARD  
     525 KIPS UPLIFT  
     34 KIPS LATERAL
  
2. CAISSONS SHALL BE AS SPECIFIED AND INSTALLED PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
  
3. THE ALLOWABLE DESIGN LOADS, SAFETY FACTORS, FIELD TESTS, INTERPRETATION OF SOIL DATA AND DESIGN RECOMMENDATIONS ARE THE RESPONSIBILITY OF THE GEOTECHNICAL PROFESSIONAL. THOUGH CERTAIN GEOTECHNICAL INFORMATION MAY BE ASSUMED IN THE PRELIMINARY DESIGN, IT IS BEYOND THE SCOPE OF WORK FOR THE STRUCTURAL ENGINEER TO CERTIFY THE SITE, SPECIFY SPECIFIC TESTING REQUIREMENTS AND/OR INTERPRET GEOTECHNICAL FIELD DATA.
  
4. IT IS RECOMMENDED THAT THE FIELD TESTING AND MONITORING ASSOCIATED WITH DEEP FOUNDATIONS BE DONE BY THE GEOTECHNICAL FIRM PERFORMING THE EXPLORATION AND GEOTECHNICAL REPORT.
  
5. THE CONTRACTOR SHALL BID A PROPOSED CAISSON SEATING DEPTH OF 95 FEET BELOW GROUND SURFACE. THE CONTRACTOR SHALL INCLUDE IN BID THE UNIT COST FOR ADDITIONS OR DEDUCTIONS IN DEPTH. △ 2

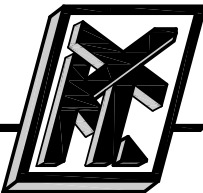
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<b>PROJECT TITLE</b> <b>WILLIAMS-BRICE STADIUM VIDEO BOARD                  SUPPORT CONSTRUCTION</b> UNIVERSITY OF SOUTH CAROLINA COLUMBIA, SC STATE PROJECT NO. H27-6089-MJ	<b>REVISION:</b> △ 2	<b>ISSUED VIA:</b> ADDENDUM NO.2
	<b>KT PROJECT NO:</b> 11-136	<b>REFERENCE:</b> S3.1
	<b>DATE:</b> 2.02.12	<b>SKETCH NO:</b> <b>S-SK-6</b>