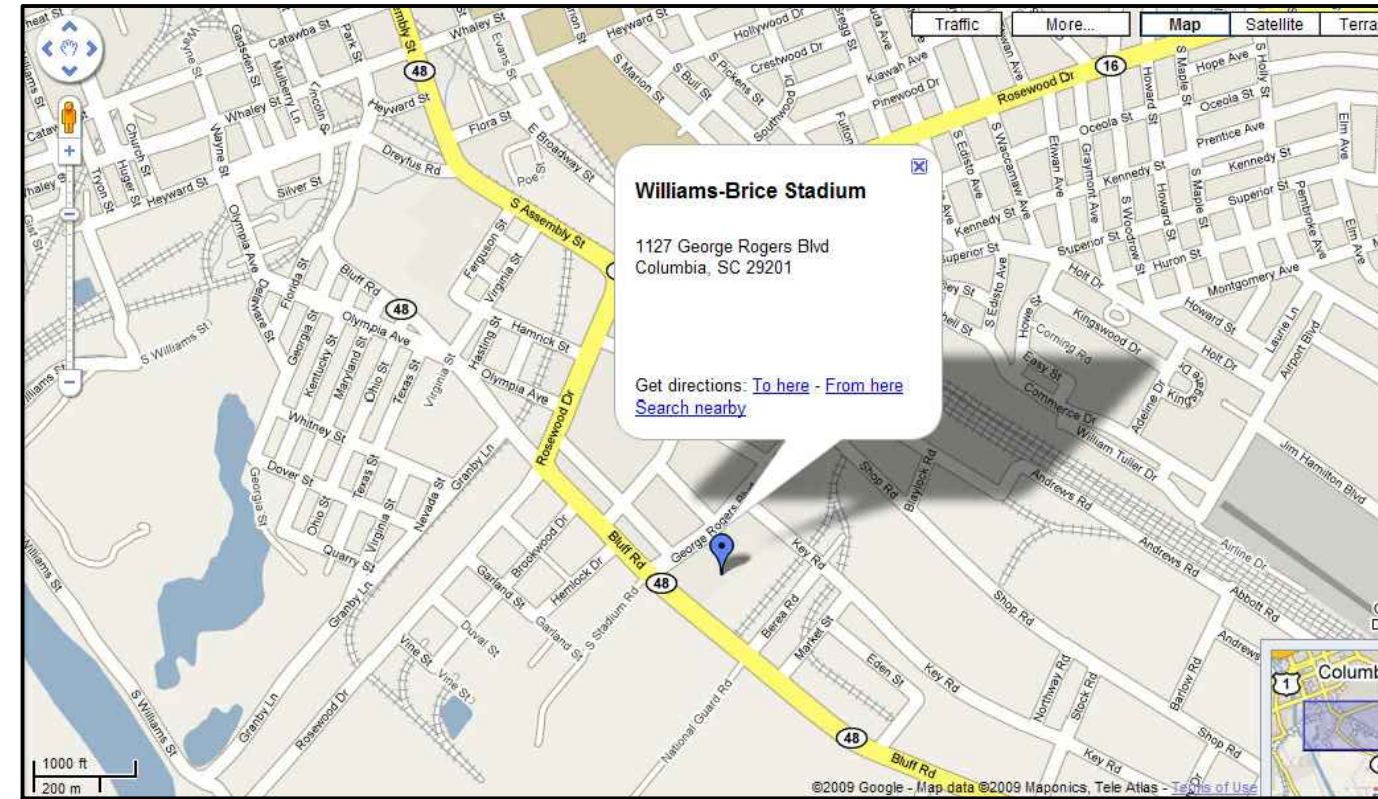


# WILLIAMS BRICE STADIUM

## Upper South - Partial Expansion Joint Replacement

### CP00349445/FM00394205

## University of South Carolina



VICINITY PLAN  
NOT TO SCALE

#### ABBREVIATIONS

A.C.T.	ACOUSTICAL CEILING TILE	MECH	MECHANICAL
ALUM.	ALUMINUM	MFR	MANUFACTURER
BD	BOARD	MB	MARKER BOARD
BLKG	BLOCKING	M.O.	MASONRY OPENING
C.J.	CONTROL JOINT	N.I.C.	NOT IN CONTRACT
C.T.	CERAMIC TILE	O.C.	ON CENTER
CMU	CONCRETE MASONRY UNIT	O.D.	OUTSIDE DIAMETER
CONG.	CONCRETE	OPNG	OPENING
CONT.	CONTINUOUS	P.B.	PROMETHEAN BOARD
CPT	CARPET	PL	PLATE
CR	CLASSROOM	PLUMB	PLUMBING
DTL	DETAIL	PR	PAIR
E.J.	EXPANSION JOINT	PT	PRESSURE TREATED
ELEC.	ELECTRICAL	REINF	REINFORCED
EQ	EQUAL	REQD	REQUIRED
EXIST/EXG	EXISTING	SCHED	SCHEDULE
EXP	EXPANSION	SHT.	SHEET
FE	FIRE EXTINGUISHER	SH.	SIMILAR
FEC	FIRE EXTINGUISHER CABINET	SS	STAINLESS STEEL
FF	FINISH FLOOR	STL	STEEL
FLR	FLOOR	STOR.	STORAGE
FTG	FOOTING	TB	TACKBOARD
GALV	GALVANIZED	TEMP	TEMPERED
GC	GENERAL CONTRACTOR	PT	PRESSURE TREATED
GR	GUARDRAIL	TYP.	TYPICAL
GWB	GYPSPUM WALL BOARD	VCT	VINYL COMPOSITION TILE
HM	HOLLOW METAL	VERT	VERTICAL
HORIZ	HORIZONTAL	WD	WOOD
HR	HANDRAIL		
I.D.	INSIDE DIAMETER		
INSUL	INSULATION		

NOTE: FOR ABBREVIATIONS NOT NOTED ABOVE CONTACT ARCHITECT.

#### PROJECT CONTACTS

JOB SITE	_____
CONTRACTOR'S OFFICE	_____
OWNER	_____
University of South Carolina	_____
ARCHITECT	_____
Jumper Carter Sease Architects, P.A.	803-791-1020

#### INDEX OF DRAWINGS

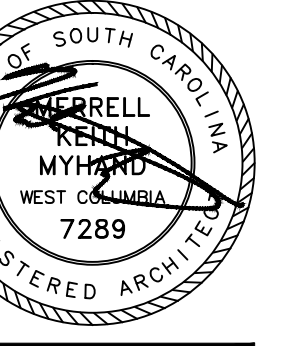
T101	TITLE, INDEX & ABBREVIATIONS
A201	NOT USED
A202	PARTIAL PLAN VIEW - SOUTH STANDS UPPER LEVEL & PHOTOGRAPHS
A203	NOT USED
A204	STRUCTURAL SEALING EXPANSION JOINT SYSTEM SPECIFICATIONS

#### ADD ALTERNATES

- ADD ALTERNATE #1: REPLACE JOINTS AS INDICATED ON SHEET A202.
- ADD ALTERNATE #2: REPLACE JOINTS AS INDICATED ON SHEET A202.

Jumper  
Carter  
Sease

Architects  
PA  
412 Meeting Street  
West Columbia  
South Carolina



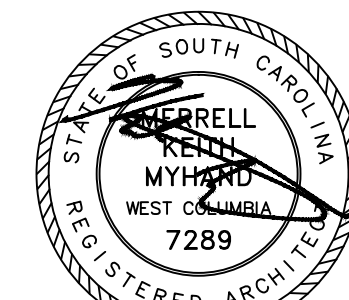
WBS - UPPER SOUTH - PARTIAL EXPANSION JOINT REPLACEMENT  
UNIVERSITY OF SOUTH CAROLINA  
COLUMBIA, SOUTH CAROLINA

#### REVISIONS:

DRAWN BY:	SL
CHECKED BY:	KM
COMM NO:	12107
DATE:	JULY 2012
SHEET TITLE:	TITLE, INDEX & ABBREVIATIONS
SHEET NO:	T101

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REVISIONS:

DRAWN BY: SL

CHECKED BY: KM

COMM NO: 12107

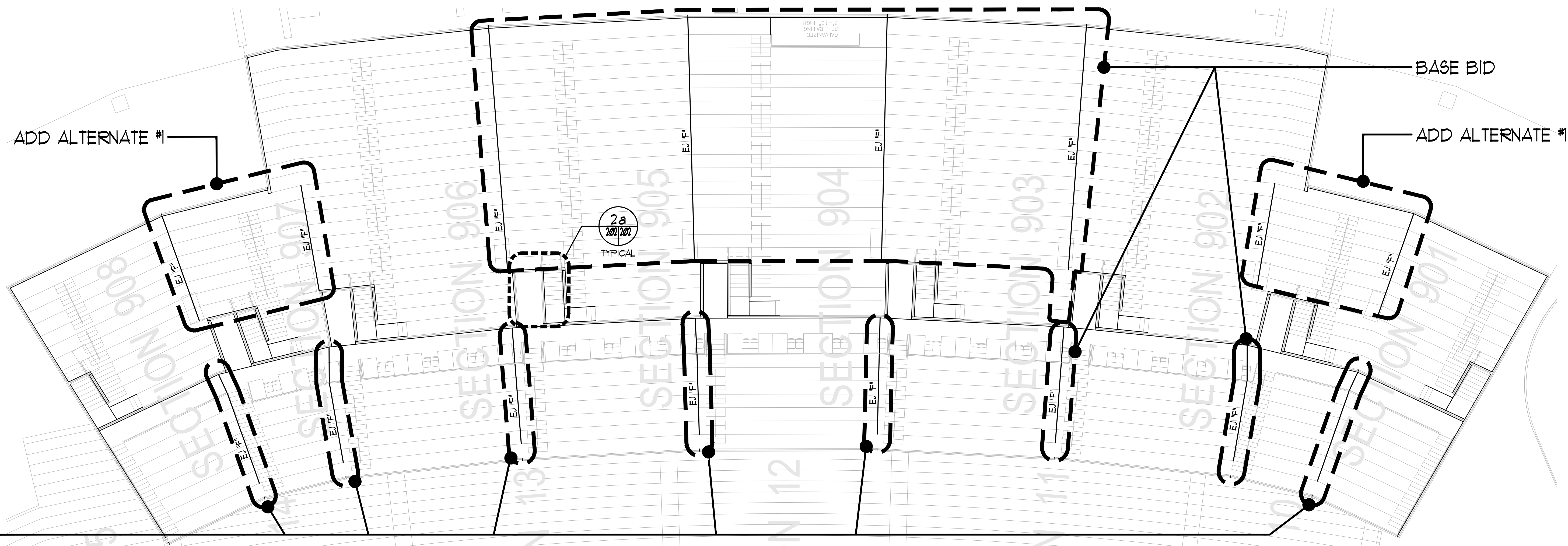
DATE: JULY 2012

SHEET TITLE:

OVERALL  
PLAN VIEW -  
SOUTH STANDS  
UPPER LEVEL &  
PHOTOGRAPHS

SHEET NO:

A202

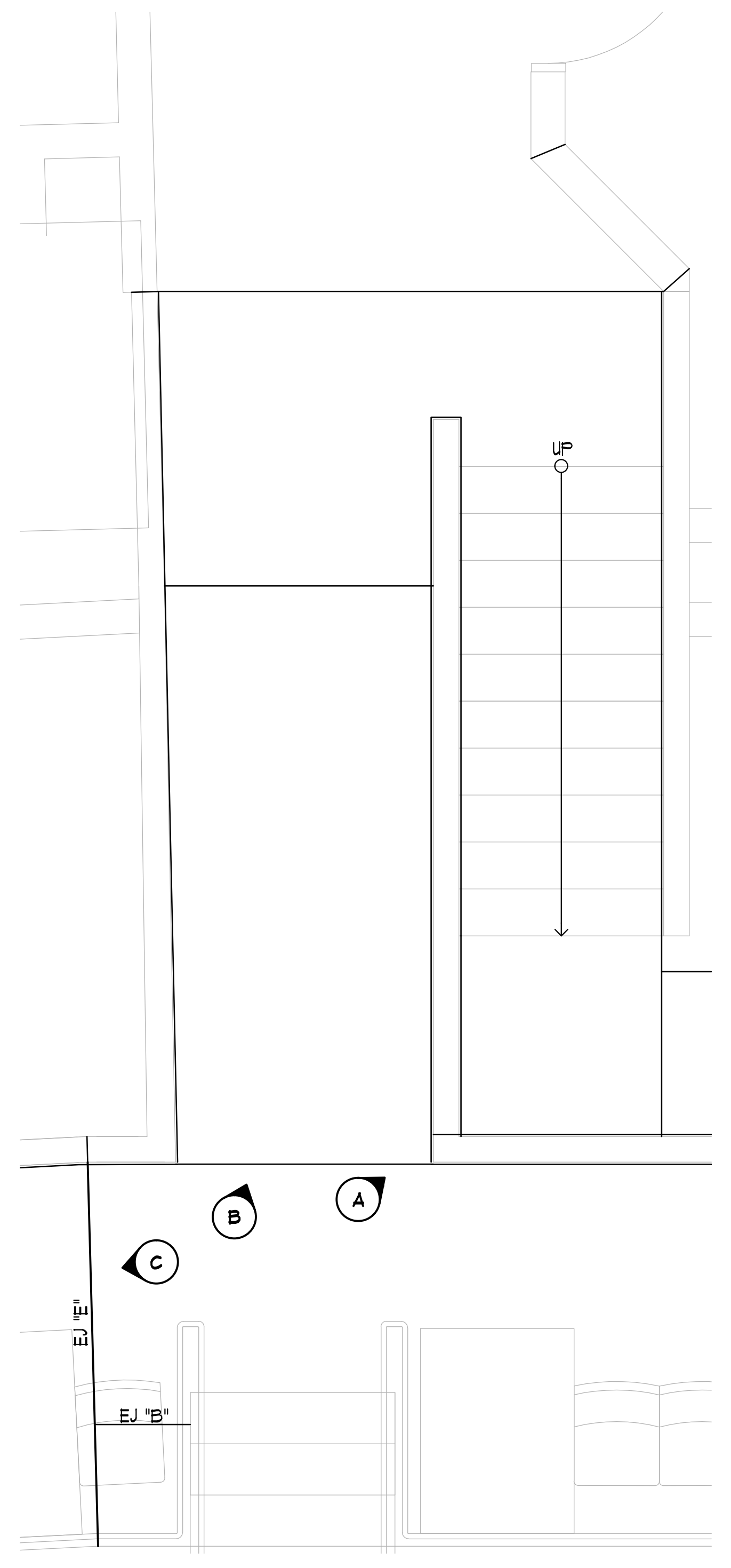


ADD ALTERNATE #2

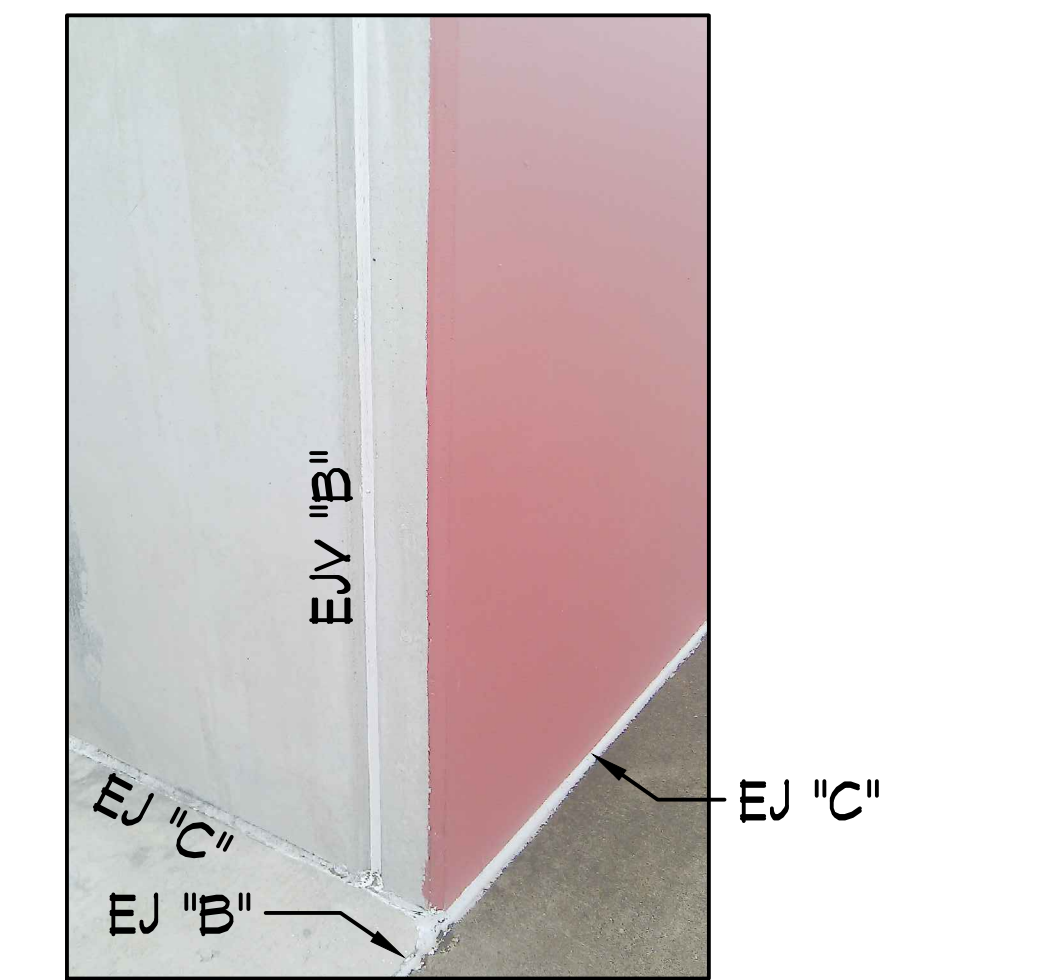
OVERALL PLAN VIEW - SOUTH STANDS UPPER LEVEL  
SCALE: 3/32" = 1'-0"

NOTE: OWNER WILL BE PAINTING RAILINGS AND VOMITORIES IN THIS AREA. CONTRACTOR MUST COORDINATE ALL WORK WITH OWNER TO BE SURE THE WORK OF BOTH PARTIES IS COMPLETED ON SCHEDULE.

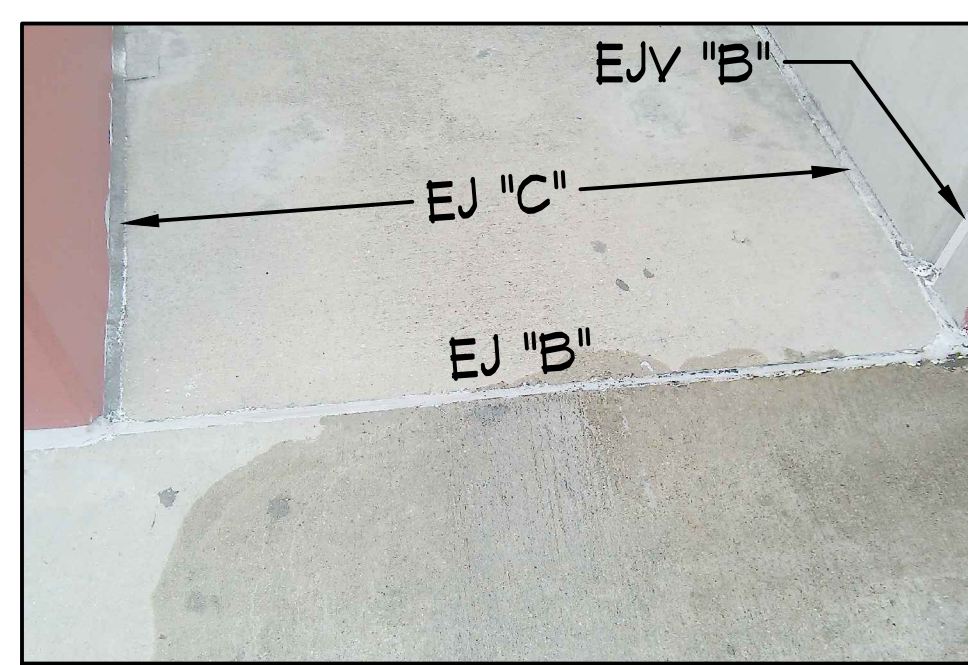
- LEGEND:**
- EJ EXPANSION JOINT, HORIZONTAL OR STEPPED.
  - EJV EXPANSION JOINT, VERTICAL.
  - (X) OR (X) PHOTO REFERENCE (SHEET A202).
- GENERAL NOTES:**
- THIS WORK CONSISTS OF WATERPROOF JOINT REPLACEMENT AT UPPER SOUTH AREAS OF THE STADIUM. MINIMAL CONCRETE REPAIR WORK IS EXPECTED.
  - THE CONTRACTOR IS REQUIRED TO VISIT THE PROJECT SITE PRIOR TO SUBMITTING BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS RELATING TO THIS PROJECT. SUBMISSION OF A BID WILL BE CONSIDERED AS EVIDENCE THAT THE CONTRACTOR HAS VISITED THE SITE OF WORK. ANY DISCREPANCIES OR QUESTIONS ARE TO BE DIRECTED TO THE ARCHITECT PRIOR TO BID.
  - THE CONTRACTOR IS TO PROVIDE A LETTER, ACCOMPANYING THE BID FORM, FROM THE JOINT SYSTEM MANUFACTURER, ON THE MANUFACTURER'S LETTER HEAD, CERTIFYING THAT THE CONTRACTOR IS FACTORY TRAINED AND APPROVED BY THE JOINT SYSTEM MANUFACTURER TO INSTALL THE JOINTS ON THIS PROJECT.
  - THE CONTRACTOR WILL HAVE ACCESS TO THE STADIUM MONDAY THROUGH FRIDAY AND TIME ON WEEKENDS ONLY IF APPROVED BY THE OWNER 1 DAY IN ADVANCE OF SUCH WEEKEND. ALL WORK MUST BE COMPLETED BY AUGUST 31, 2012. THE CONTRACTOR IS TO STRATEGIZE HIS WORK SCHEDULE AND SUBMITTALS BASED ON THE SCOPE OF WORK TO MEET THIS DEADLINE.
  - THE OWNER WILL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF THE BLEACHERS AND SEATING.
  - UPPER SOUTH: REMOVE AND REINSTALL SHORTEST SECTION OF SEAT BOARD ONLY AT ONE SIDE OF EJ FOR ACCESS TO JOINT REPLACEMENT. SOME AREAS MAY BE 3' LONG & SOME AREAS MAY REQUIRE ENTIRE LENGTH REMOVED. ALL BACKS ARE TO REMAIN IN PLACE.
  - THE SEQUENCING OF BLEACHER REMOVAL, STACKING LOCATION AND REINSTALLATION MUST BE COORDINATED BY ALL PARTIES AS THE BLEACHERS OR BLEACHER SEATS WILL BE STACKED/STORED ON THE ADJACENT BLEACHERS OF EACH SECTION. IT IS EXPECTED THAT JOINT REPLACEMENT EFFORTS START AT EACH END AND PROCEED TOWARD THE CENTER.
  - THE CONTRACTOR IS TO INCLUDE THE BLEACHER REMOVAL IN HIS PROJECT SCHEDULE. THE REMOVAL SHALL BE CLOSELY COORDINATED WITH THE OWNER'S SEATING CONTRACTOR PRIOR TO COMPLETION OF THE SCHEDULE. THE CONTRACTOR MUST INCLUDE THE CONSTRUCTION SCHEDULE WITH THE BID.
  - ALL TEMPORARY FACILITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
  - THE CONTRACTOR IS REQUIRED TO MAINTAIN A CLEAN WORK SITE AT ALL TIMES. THE WORK AREA MUST BE CLEANED UP AT THE END OF EACH DAY MINIMUM. CONTRACTOR SHALL NOT ALLOW TRASH OR DEBRIS TO BECOME WIND BORNE SO AS TO LITTER UP ADJACENT AREAS OF THE STADIUM.
  - CONTRACTOR IS TO PROTECT ALL EXISTING CONSTRUCTION FROM DAMAGE. ANY DAMAGE TO EXISTING CONSTRUCTION WILL BE REPAIRED OR REPLACED AT THE OWNER'S DISCRETION AND AT THE EXPENSE OF THE CONTRACTOR.
  - ALL JOINT REPLACEMENT MUST INCLUDE THE ENTIRE JOINT SYSTEM AND MUST BE INSTALLED IN CONFORMANCE WITH JOINT SYSTEM MANUFACTURER'S INSTRUCTIONS. CONTRACTOR SHALL VERIFY WIDTHS AS SOME WILL VARY.
  - THE CONTRACTOR IS RESPONSIBLE FOR ALL LIFE SAFETY METHODS & PRACTICES.
  - MINIMAL CONCRETE REPAIR AT EDGES OF SOME JOINTS IS EXPECTED AND SHALL BE PROVIDED. REMOVE LOOSE CONCRETE, SAW CUT, CHIP AND CLEAN & APPLY BONDING AGENT & CONCRETE REPAIR MORTAR. PROVIDE SIKKA 211 FOR DEEP CONDITIONS AND FORM. USE SIKKA TOP 122 PLUS FOR SHALLOW CONDITIONS. FOLLOW REPAIR MORTAR MANUFACTURER'S WRITTEN INSTRUCTIONS & PER ACI RAP BULLETIN 1. EQUAL PRODUCTS BY BASF & EUCLID ARE ACCEPTABLE. SUBMITTAL TO ARCHITECT IS REQUIRED. SEE PHOTO # 9.
  - INSTALL NEW JOINTS SO THAT THEY ARE ACCEPTABLE TO FUTURE WATERPROOF COATINGS IN THESE AREAS.
  - CONTRACTOR IS TO SHIFT OR REALIGN EXISTING STEPS AS REQUIRED TO PROVIDE WATER TIGHT CONDITION FOR THE JOINT SYSTEM. ANY BROKEN STEPS ARE TO BE REPLICATED, INCLUDING EXISTING BRASS INLAY AND RESET. ALL STEPS ARE TO BE RESET IN A CONSISTENT MANNER AND MINIMAL SPACING FROM VOMITORY WALLS.
  - CONTRACTOR SHALL TAKE MEASURES NOT TO DAMAGE EXISTING PAINTED SURFACES. CONTRACTOR IS TO TOUCH UP PAINT AT JOINT LOCATIONS AROUND VOMITORIES OR WALL SLAB PAINTED SURFACES. PAINT MUST BE SAME AS EXISTING AND OBTAINED FROM SHERWIN WILLIAMS IN "USC GARNET" COLOR.
- KEY NOTES: NOT USED**
- JOINT SYSTEM SCHEDULE:**
- EJ TYPE "A" - WABO UREFLEX  
FIELD VERIFY & COORDINATE WITH EXISTING SLAB RECESS FOR REPLACEMENT OF EXISTING WABO UREFLEX JOINTS.
  - EJ TYPE "B" - BACKER ROD (CLOSED CELL) & SEALANT
  - EJ TYPE "C" - JOINT SEALANT CANT BEAD
  - EJ TYPE "D" - WABO SEISMIC WEATHER SEAL
  - EJ TYPE "E" - WABO SEISMIC WEATHER SEAL (ONLY AT JOINT WIDTHS 1" AND GREATER. PROVIDE JOINT TYPE "B" AT JOINT WIDTHS LESS THAN 1". CONTRACTOR TO VERIFY JOINT WIDTHS PRIOR TO BID).
  - EJ TYPE "F" - WABO EVAZOTE UV (ONLY AT JOINT WIDTHS 1" AND GREATER. PROVIDE JOINT TYPE "B" AT JOINTS LESS THAN 1". BOTH JOINT METHODS ARE TO RECEIVE URETHANE SEALANT TOPPING (3/8" MINIMUM) AT EVAZOTE UV CONDITIONS) TO PROTECT AGAINST HEELS AND TO PROVIDE CONSISTENT & UNIFORM APPEARANCE. CONTRACTOR TO VERIFY JOINT WIDTHS PRIOR TO BID).
- NOTE:** CONTRACTOR IS TO PROVIDE 30 LF OF BACKER ROD AND SEALANT FOR USE AT LOCATIONS AROUND VOMITORIES AND ELSEWHERE AS LOCATED IN FIELD WITH ARCHITECT.



2a ENLARGED VOMITORY @ LOWER AREA  
SCALE: 3/8" = 1'-0"



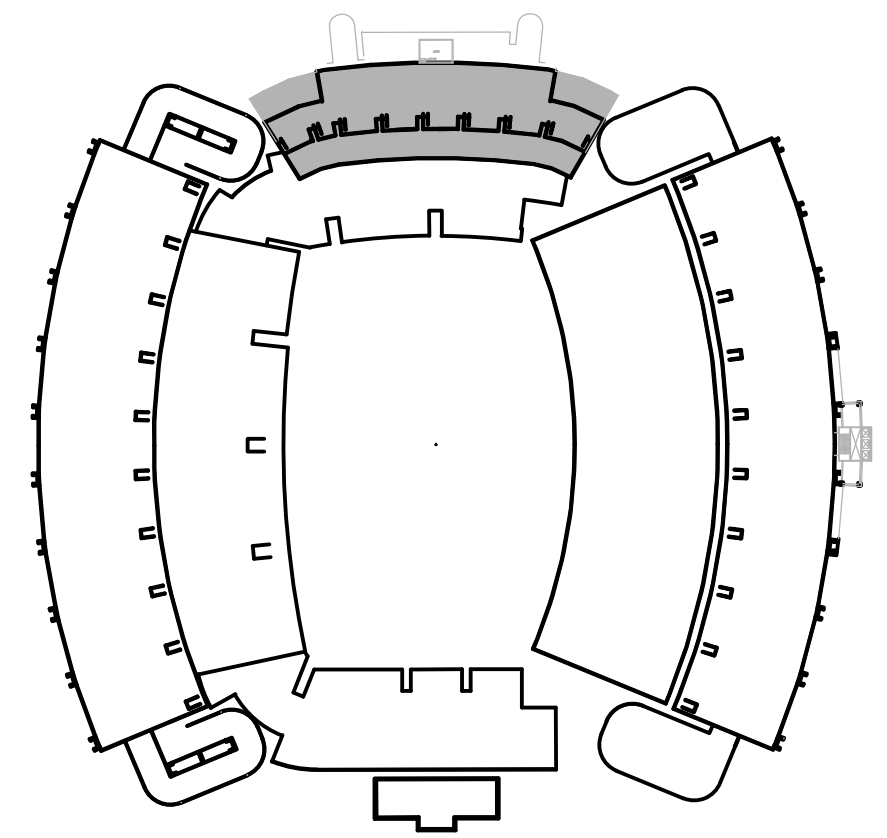
A VOMITORY WALL VERTICAL & HORIZONTAL JOINTS



B VOMITORY HORIZONTAL JOINTS

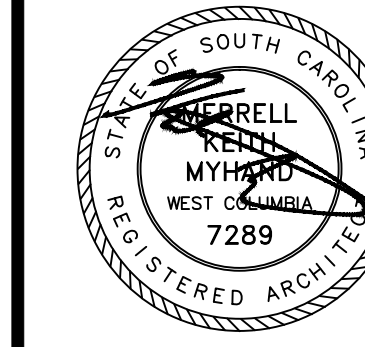
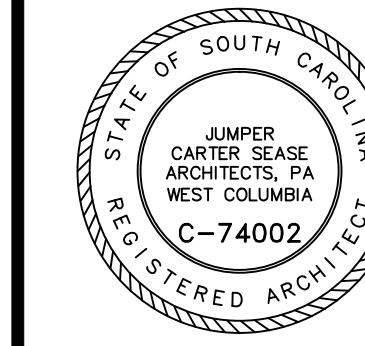


C



TRUE NORTH PROJECT NORTH  
KEY PLAN





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REVISIONS:

DRAWN BY: SL

CHECKED BY: KM

COMM NO: 12107

DATE: JULY 2012

SHEET TITLE:

STRUCTURAL  
SEALING EXPANSION  
JOINT SYSTEM  
SPECIFICATIONS

SHEET NO:

EXPANSION JOINT REPLACEMENT - UPPER SOUTH LEVELS SECTION 079100  
UNIVERSITY OF SOUTH CAROLINA STRUCTURAL SEALING EXPANSION JOINT SYSTEMS

PART 1 - GENERAL

1.01 Work Included

A. The work consists of furnishing and installing expansion joint systems in accordance with the joint system manufacturer's written instructions and specifications at the areas indicated on drawings. All joints are to be water tight and must be installed in a manner to accept future waterproof coating systems.

B. Related Work within this Project Scope

- Minor Concrete Repair
- Joint Sealant Conditions
- Other as indicated on the drawings

1.02 Submittals

A. Samples - Submit one (1) sample at least 152mm (6") long, of each profile type, for review by the Engineer/Architect. Include with the submittal a letter from the expansion joint system manufacturer confirming that the submitted product complies with the existing conditions and is therefore the equivalent replacement.

A. Field Mock-up - Provide a four foot minimum length mock-up section of each joint type system used on this project. Each mock-up is to be reviewed for acceptance by architect for quality control measures. The accepted mock-up joint systems will set the standard of workmanship for all joints. It is important to understand that all joints must be water tight, they must also exhibit quality craftsmanship that all can be proud of. Poor quality joints will be replaced at no additional cost to the owner and in a time frame to meet the project schedule.

1.03 Product Delivery/Storage & Handling

A. Deliver materials in the manufacturer's original, intact, labeled containers and store under cover in a dry location until installed. Store off ground, protect from weather and construction activities.

B. Store materials between 4° - 32°C (40° - 90°F) in such a way as to prevent damage to containers or product.

1.04 Manufacturers

A. Basis-of-Design Manufacturer: Subject to compliance with requirements, provide the products specified in individual subparagraphs below as basis-of-design products or a comparable product by one of the following:

1. Watson Bowman Acme Corp.
2. Balco, Inc.
3. Construction Specialties, Inc.
4. MM Systems Corporation.
5. Nystrom, Inc.
6. or approved equal

079100-1

EXPANSION JOINT REPLACEMENT - UPPER SOUTH LEVELS SECTION 079100  
UNIVERSITY OF SOUTH CAROLINA STRUCTURAL SEALING EXPANSION JOINT SYSTEMS

B. Alternate manufacturers and their products will be considered, provided they meet the design concept and are produced of materials that are equal to or better than those called for in the base product specification.

C. Any proposed alternate systems must be submitted and receive approval eight (8) days prior to the bid. All post bid submissions will not be considered. This submission shall be in accordance with MATERIALS AND SUBSTITUTIONS.

- Any manufacturer wishing to submit for prior approval must provide the following:
  1. A working 6 inch sample of each proposed system with a letter describing how the system is considered superior to the specified system.
  2. A project proposal drawing illustrating the recommended alternate system installed in the application, specific to the project. Typical catalog cuts will not be accepted.
  3. A letter from the expansion joint system manufacturer after his or her field verification confirming that the proposed product complies with the existing conditions and is therefore the equivalent replacement as based on such field visit and confirmation.
  4. Verifiable list of prior installations showing prior and successful experience with the proposed system.
  5. Any substitution products not adhering to all specification requirements within, will not be considered.

1.05 Quality Assurance

A. Manufacturer: Shall be ISO-9001:2000 certified and shall provide written confirmation that a formal Quality Management System and Quality Processes have been adopted in the areas of, (but not limited to) engineering, manufacturing, quality control and customer service for all processes, products and their components. Alternate manufacturers will be considered provided they submit written proof that they are ISO 9001:2000 certified prior to the project bid date. Manufacturers in the process of obtaining certification will not be considered.

B. Warranty: The expansion control system shall be warranted and shall be installed by the manufacturer's factory trained installer. Installation shall be in strict accordance with manufacturer's technical specifications, details, installation instructions and general procedures in effect for normal intended usage and suitable applications under specific design movements and loading conditions. See the project "Special Warranty" described below.

C. Manufacturer: Shall have a minimum ten (10) years experience specializing in the design and manufacture of expansion control systems.

D. Products: Expansion control systems shall be installed with manufacturer's blockout repair and infill materials where required by the manufacturer's written instructions.

E. Application: The specified expansion control system(s) shall be installed by the manufacturer's factory trained installer. The manufacturer shall provide written confirmation of installer training and acceptance for this project.

079100-2

EXPANSION JOINT REPLACEMENT - UPPER SOUTH LEVELS SECTION 079100  
UNIVERSITY OF SOUTH CAROLINA STRUCTURAL SEALING EXPANSION JOINT SYSTEMS

F. Installer: Shall have a minimum five (5) years experience specializing in the installation of the specified expansion joint systems for the manufacturer. Verification of experience will be required.

1.06 Special Warranty

Special Warranty: Manufacturer's five (5) year material warranty and the manufacturer approved Installer's five (5) year labor and material warranty in which the installer agrees to repair or replace the joint system or systems and any part there of included in the scope of work of this project that fail in materials and/or workmanship within five years from date of Substantial Completion. Applicator must be certified and trained by the joint system manufacturer.

1. Warranty does not include failure due to unusual weather phenomena, formation of new substrate cracks, fire, vandalism, or abuse by maintenance equipment, and truck traffic.
2. Failure includes, but is not limited to, the following:
  - a. Adhesive or cohesive failures.
  - b. Abrasion or tearing failures.
  - c. Intrusion of water into or through the joints.

PART 2 - PRODUCT

2.01 General

A. Basis of Design Products: Expansion Joint Sealing Systems as manufactured by Watson Bowman Acme Corp. and as indicated on drawings for vertical and horizontal expansion joint locations. The expansion joint systems are to be complete systems as designed by the manufacturer to withstand structural movement and harsh environmental conditions. All joint systems are to be installed by Manufacturer Approved Installers. In addition, all systems shall be designed for application on the specified type of surface indicated.

1. Wabo@SeismicWeatherSeal - Model "SWS", size to match existing conditions. Color to be determined on site with submitted color samples.
2. Wabo@UreFlex - Model No. to match existing conditions.
3. Wabo@HSeal - Model "EH", size according to existing conditions. Color to be determined on site with submitted color samples.
4. Wabo@Evazote UV - Model No. to match existing conditions.

B. Refer to drawings for "Joint System Schedule"

C. Miscellaneous Joint Products by Sonneborn or pre-approved equal prior to bid:

1. Sealant primer: Sonneborn Primer 733 where required.
2. Sealant: Sonneborn NP-2.
3. Deep joint sealant: Sonneborn NP-2.
4. Backer Rod: Closed Cell Backer Rod as required by sealant manufacturer.

079100-3

EXPANSION JOINT REPLACEMENT - UPPER SOUTH LEVELS SECTION 079100  
UNIVERSITY OF SOUTH CAROLINA STRUCTURAL SEALING EXPANSION JOINT SYSTEMS

Mix material per manufacturer instructions allowing material to rest before remixing and application.

Colors: To be confirmed upon receipt of color samples with in the submittal.

PART 3 - EXECUTION

3.01 Project Conditions

A. Coordinate the installation of the joint system with related work and any adjacent work being performed by others. Protect installed units until completion of entire project.

B. Ambient temperature shall not be lower than 4°C (40°F) during installation. Note that gap size will change with cold and hot temperature extremes. Gap measurement should optimally be carried out at the mid-point of the average temperature range for the area of installation.

C. The environment should be free of dust, oil, grease, wax, moisture, and frost. The gap wall surfaces must be thoroughly cleaned.

D. No installation may be performed in rainy weather, or when rain is expected within one hour before installation. All surfaces must be completely dry prior to applying adhesive.

E. Personnel shall read the Material Safety Data Sheet for all components before beginning the installation.

F. Upon completion of this work, remove trash and debris on the site caused by work under this section.

3.03 Preparation

A. All foreign materials must be totally removed from the gap. The heads must first be cleaned out by disc grinding or sandblasting and then vacuumed or blown with dry, oil free, compressed air before the two component epoxy adhesive is mixed and applied. Pressure washing or any other use of water is not allowed.

B. All existing joint conditions are to be cleaned thoroughly and all existing joint material and associated residue removed entirely so that each condition has the appearance of a new joint.

3.04 Installation

A. Expansion joint system is to be installed in strict accordance with the manufacturer's instructions by Watson Bowman Acme Factory Trained Installers (or other approved manufacturer) or under the direct supervision of Watson Bowman Acme (or other approved manufacturer's) Technicians.

B. Non durable and unsound concrete at the joint gap edge must be removed and the concrete must be totally repaired per the joint manufacturer. All cracks shall be repaired.

C. Where indicated, install seal profiles in a neat workmanlike manner. All surfaces to receive seals shall be free from dirt, water, frost and any loose foreign debris that may be detrimental to effective joint sealing.

D. Installation contractor shall verify that seal profile is to be installed in the proper width opening for the appropriate temperature at time of installation. Variations in width or

079100-4

EXPANSION JOINT REPLACEMENT - UPPER SOUTH LEVELS SECTION 079100  
UNIVERSITY OF SOUTH CAROLINA STRUCTURAL SEALING EXPANSION JOINT SYSTEMS

incorrect opening that may affect proper installation and product performance shall be brought to the attention of the architect and product manufacturer prior to installation.

E. Install seal profiles in strict accordance with the manufacturer's typical details and installation procedures and in conjunction with the advice of their qualified representative.

3.05 Clean and Protect

A. Protect the Structural Sealing Joint Systems during construction. Heavy construction vehicles will not be permitted to cross the joint. Sub sequential damage to the system shall be repaired at the contractor's expense.

END OF SECTION

079100-5