





	DRAWING INDEX					
R-001	COVER SHEET					
R-101	ROOF PLAN					
R-102	INSULATION AND BASE SHEET ATTACHMENT PLAN					
R-103	LOADING PLAN					
R-201	ROOF DETAILS					
R-202	ROOF DETAILS					
R-203	ROOF DETAILS					

WILLIAMS BRICE BUILDING AND AUDITORIUM ROOF

UNIVERSITY OF SOUTH CAROLINA 1601 GREENE ST. COLUMBIA, SC 29208

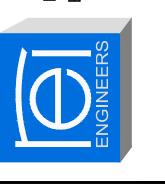
REPLACEMENT

ABBREVIATION LIST				
MAX.	MAXIMUM			
MIN.	MINIMUM			
N.I.C.	NOT IN CONTRACT			
N.T.S.	NOT TO SCALE			
O.C.	ON CENTER			
S.S.	STAINLESS STEEL			
SIM.	SIMILAR			
TERM.	TERMINATION			
TYP.	TYPICAL			

CODE COMPLIANCE REFERENCE LIST
2012 INTERNATIONAL BUILDING CODE WITH SC MODIFICATIONS
2012 INTERNATIONAL FIRE CODE WITH SC MODIFICATIONS
2012 INTERNATIONAL PLUMBING CODE
2012 INTERNATIONAL MECHANICAL CODE
2009 INTERNATIONAL ENERGY CONSERVATION CODE
2012 INTERNATIONAL FUEL GAS CODE WITH SC MODIFICATIONS
2011 NATIONAL ELECTRIC CODE

These documents are the property of REI Engineers, Inc. (REI) and retains all rights therein, including copyrights. It may only be used in a manner consistent with REI's rights while REI is providing service for the specific project identified or referred to herein or extensions thereto. It may not be used for any other purpose except with the express written agreement of, and compensation to, REI Engineers, Inc

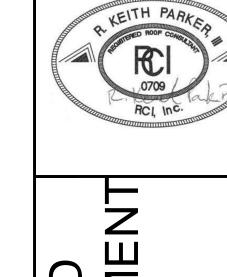






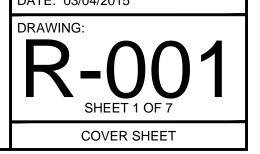






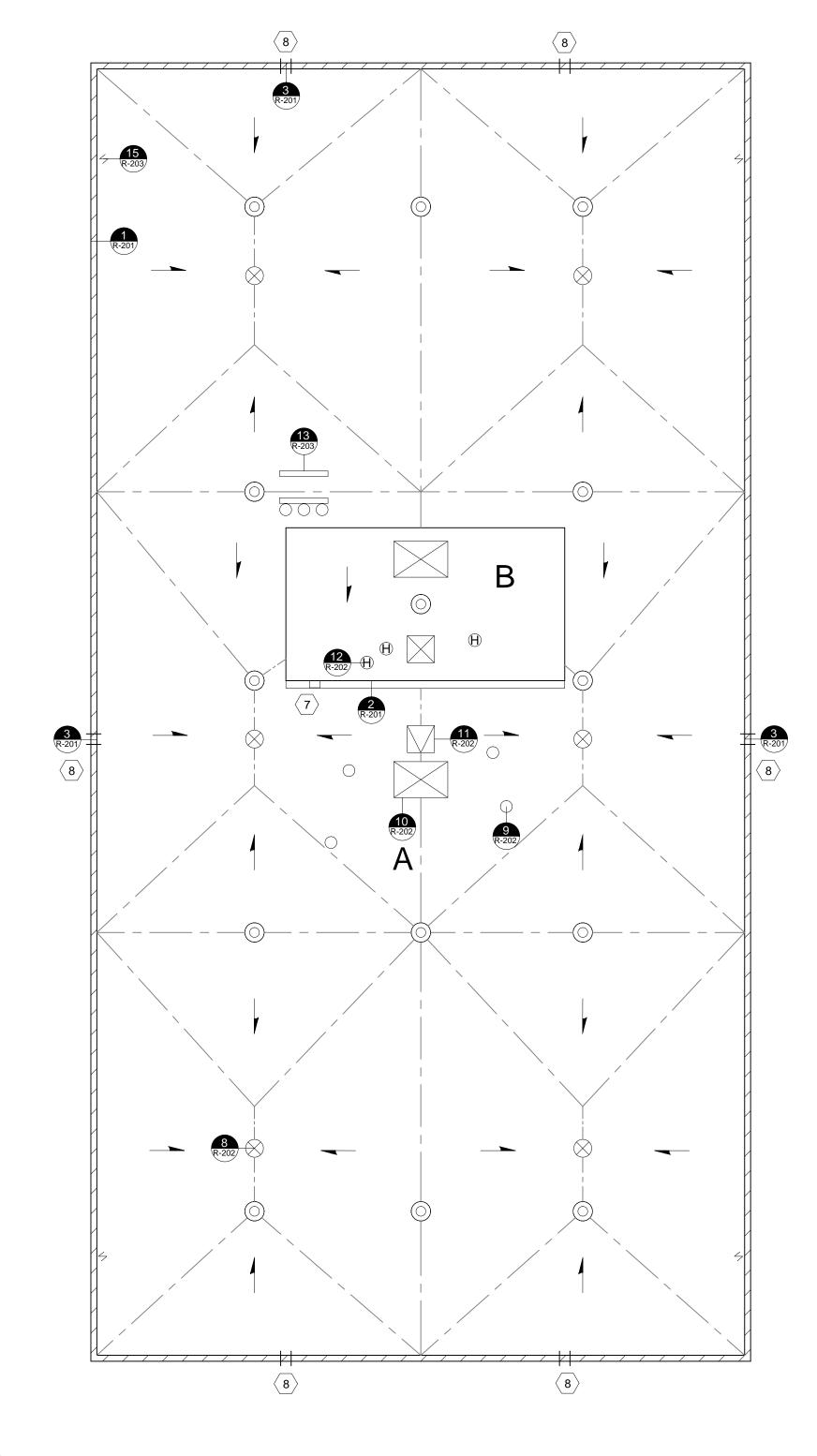
4

DRAWN BY: CGB SCALE: N.T.S.



SECTOR	AREA (SQUARE FEET)	
Α	±9,769	
В	±527	
С	±2,857	
D	±4,191	
TOTAL	±17,344	

CONTRACTOR TO VERIFY ALL QUANTITIES PRIOR TO BIDDING





THROUGH WALL SCUPPER
ROOF EDGE WITH GUTTER AND DOWNSPOUT

ROOF EDGE
RIDGE-HIP-VALLEY

STRUCTURAL SLOPE

ROOF DRAIN

ROOF HATCH

HOT STACK

EQUIPMENT CURB

EQUIPMENT SUPPORT CURB

LIGHTNING PROTECTION TERMINAL

VENT TO BE REMOVED PIPE PENETRATION

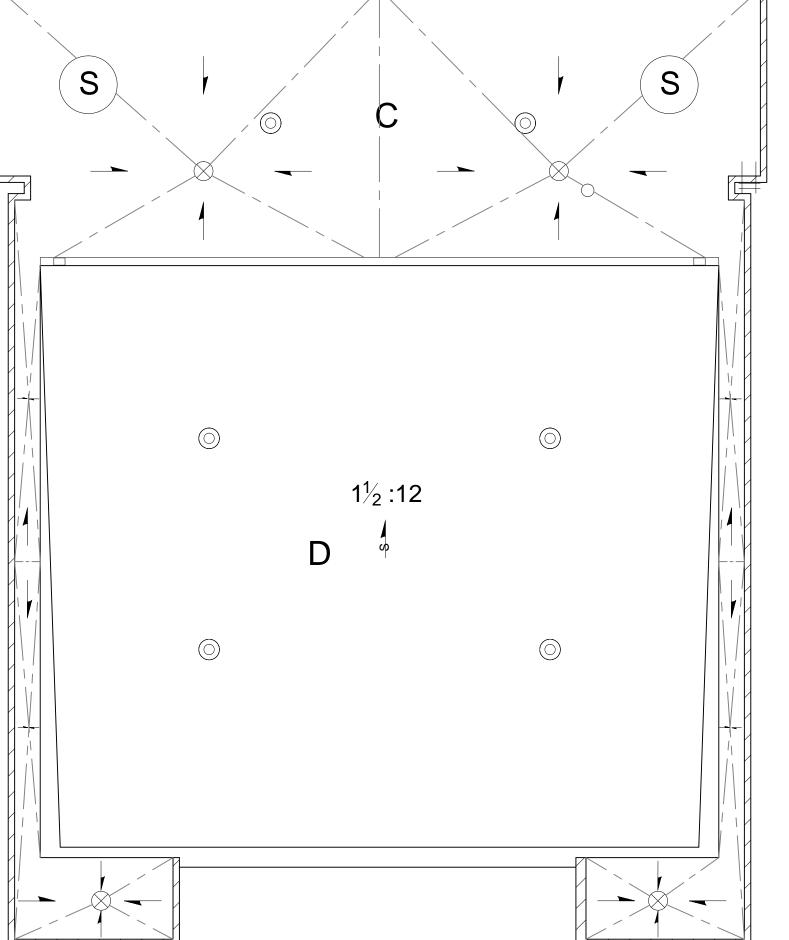
ROOF ACCESS LADDER

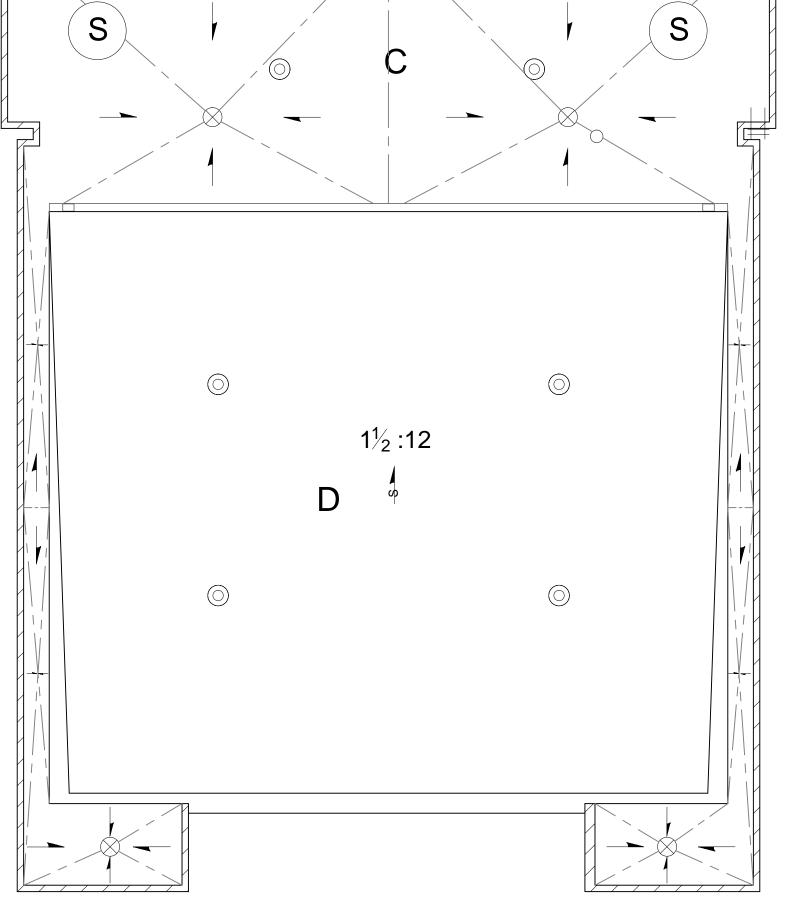
TAPERED SLOPE

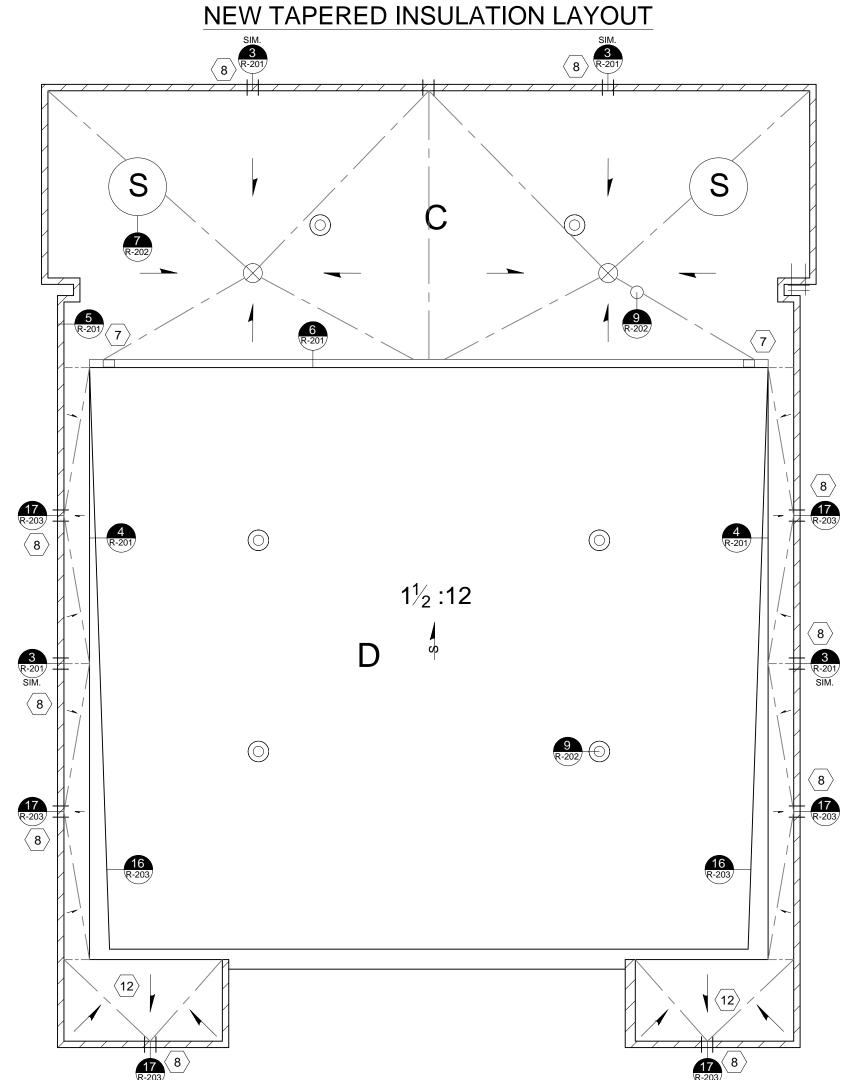
1. RESECURE EXISTING NAILERS IN ACCORDANCE WITH FM DATA SHEET 1-49. SECURE NEW NAILERS IN ACCORDANCE WITH FM DATA SHEET 1-49.

- INSTALL NEW NAILERS AS REQUIRED TO MATCH SPECIFIED INSULATION THICKNESS. ADJUST NAILERS AS REQUIRED FOR SMOOTH TRANSITIONS. MAINTAIN LEVEL HEIGHT ALONG PERIMETER EDGE. ADJUST AS REQUIRED TO PREVENT PONDING WATER. 4. PROVIDE CRICKETS BEHIND CURBS 12" WIDE OR GREATER.
- 5. CONTRACTOR SHALL BECOME FAMILIAR WITH AND VERIFY THE CONDITION, DIMENSION, AND LOCATION OF ALL ROOF AREAS INCLUDING ROOFTOP EQUIPMENT, FLASHINGS, PIPE LINES, CONDUIT, PIPE SUPPORTS, ETC., BEFORE SUBMITTING BID. NOT ALL EXISTING PIPES, CONDUIT, ELECTRICAL LINES, CABLES, GUY WIRES, AND DUCTWORK ABOVE THE ROOF SURFACE HAVE BEEN SHOWN ON THE ROOF PLAN.
- 6. RAISE ALL ROOFTOP MOUNTED EQUIPMENT, SUPPORT STANDS AND OTHER APPURTENANCES AS NECESSARY TO PROVIDE AN EIGHT INCH FLASHING HEIGHT ABOVE THE FINISHED ROOF SURFACE. RAISE OR EXTEND ASSOCIATED DUCTWORK, GAS LINES, AIR CONDITIONING LINES, ETC. TO ACCOMMODATE PROPER REINSTALLATION OF THE LINES TO THE ASSOCIATED EQUIPMENT AFTER THE EQUIPMENT HAS BEEN RAISED. PROVIDE NECESSARY EQUIPMENT TO BLEED FREON FROM AIR CONDITIONING AND HVAC LINES
- PROVIDE WALKWAY PAD ROUTED FROM SPLASH PAN TO NEAREST INTERIOR ROOF DRAIN AS SPECIFIED. 8. REFER TO SECTION 07 62 00 FOR FINISHED SCUPPER DIMENSIONS. SCUPPERS SHOWN AT SECTORS C AND TWO AT SECTOR A ARE
- 9. SCRAPE AND PRIME EXISTING ROOFTOP EQUIPMENT AND STEEL PENETRATIONS PRIOR TO REMOVAL OF EXISTING ROOF SYSTEM. 10. PROVIDE NEW TAPERED INSULATION NOT SHOWN ON DRAWINGS AND AS REQUIRED TO PREVENT PONDING WATER AT SECTOR C.
- PONDING WATER IS DEFINED IN SECTION 07 22 16. 11. EXISTING LIGHTNING PROTECTION SYSTEM NOT SHOWN. REFER TO DETAIL 14 AND SECTION 07 72 00.
- 12. REMOVE EXISTING DRAIN COMPONENTS ABOVE DECK. REFER TO SECTION 07 01 50 FOR NEW STEEL PLATE INSTALLATION.
- 13. DEMOLISH EXISTING LIGHTWEIGHT INSULATION AS REQUIRED FOR INSTALLATION OF NEW TAPERED SYSTEM AT SECTOR C. 14. PROVIDE NEW STEEL PLATE AT LOCATION OF VENT TO BE REMOVED.

EXISTING LIGHTWEIGHT INSULATION LAYOUT







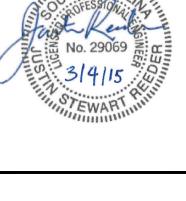


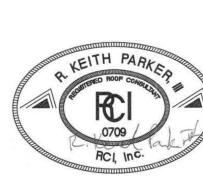


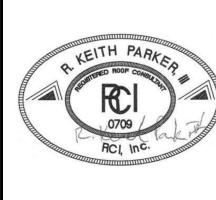


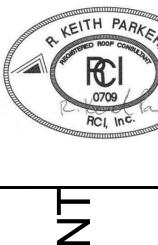








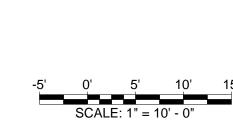


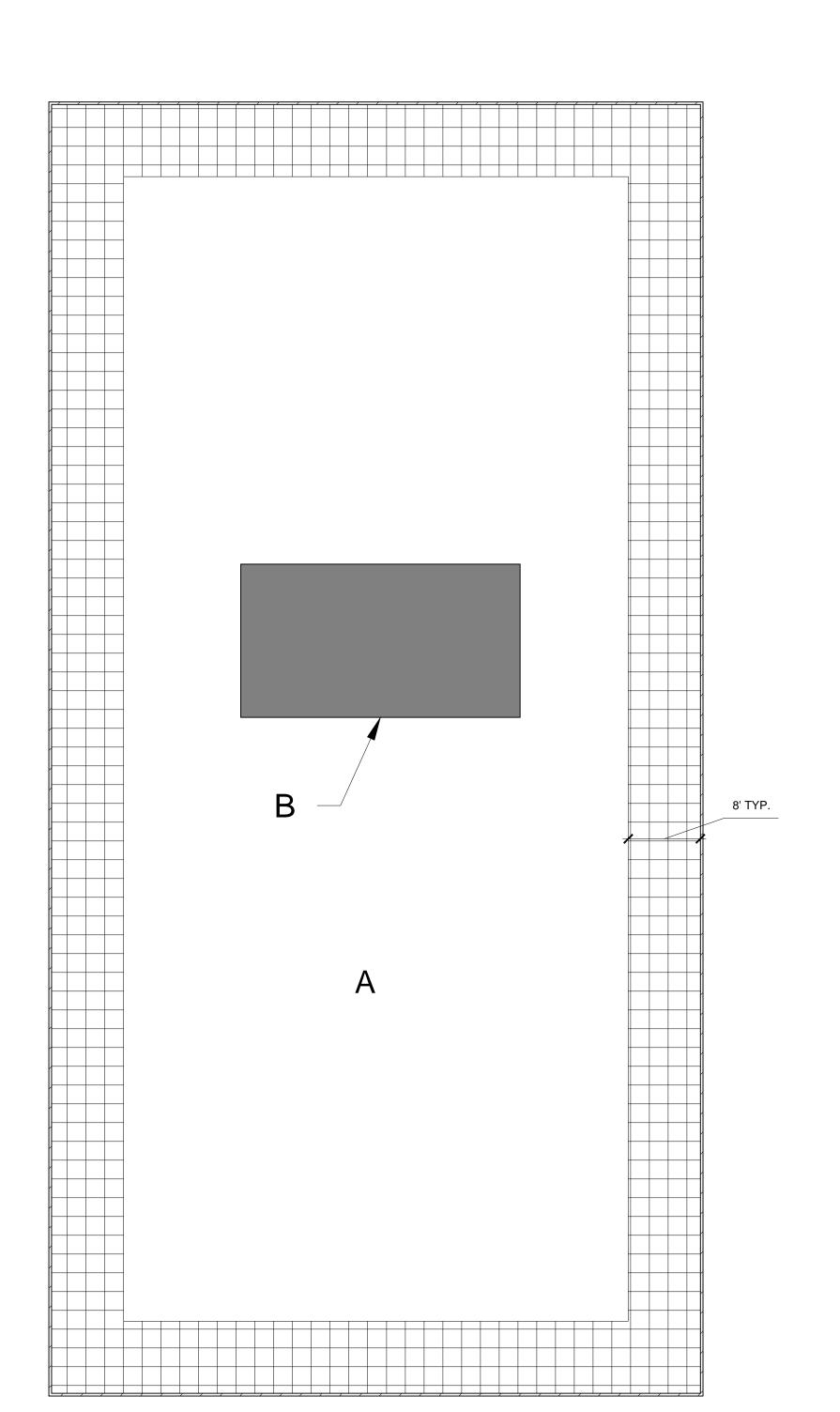


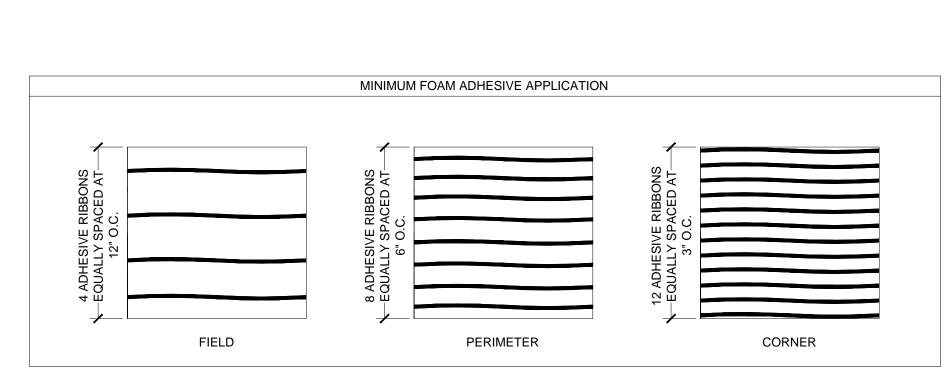
BU

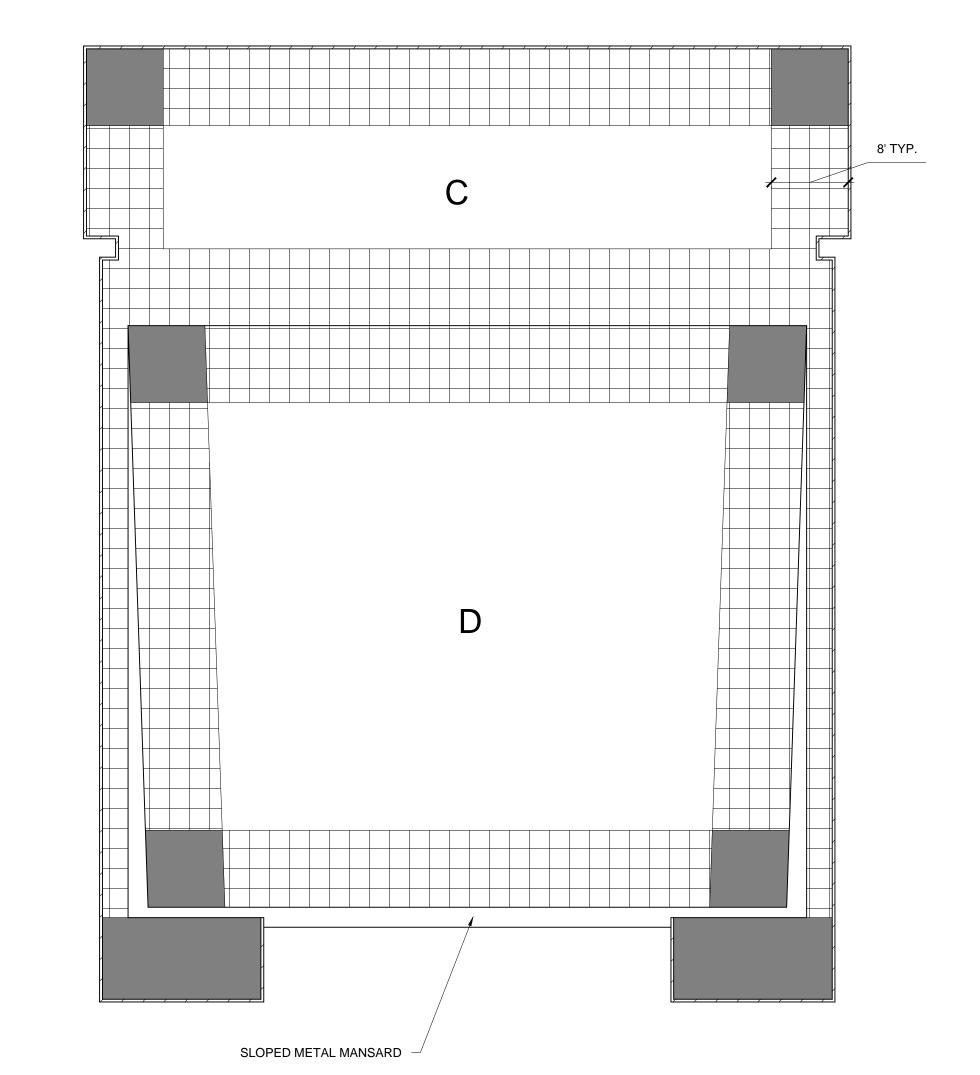
REVISION DATE REVISION # DRAWN BY: CGB

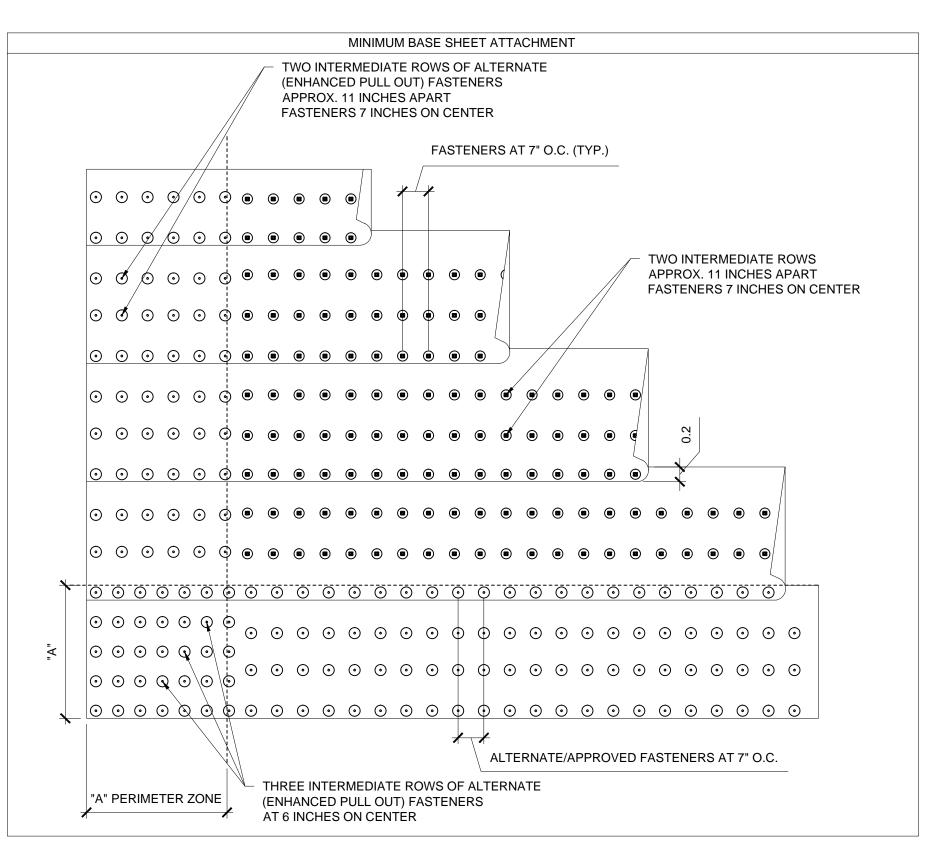
SCALE: 1"=10'-0"













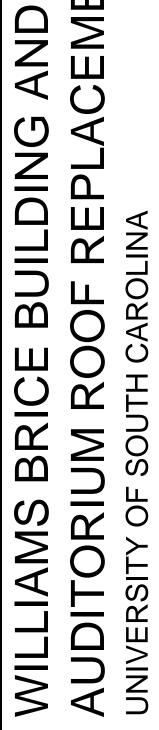
1. PLACEMENT OF BASE SHEET FASTENERS SHALL COMPLY WITH BASE SHEET MANUFACTURER'S PUBLISHED LITERATURE AND THE MEMBRANE MANUFACTURER'S REQUIREMENTS.

2. CUT OR SCORE BOARDS TO CONFORM TO ANY IRREGULAR SUBSTRATE CONDITIONS.

PERIMETER

CORNER

3. INSTALL NUMBER OF FASTENERS REQUIRED BY MEMBRANE MANUFACTURER'S TESTED ASSEMBLY TO MEET WIND DESIGN UPLIFT PRESSURES SPECIFIED IN SECTION 07 54 00.



RO SOUTH

DRAWN BY: CGB SCALE: 1"=10'-0" DATE: 03/04/2015

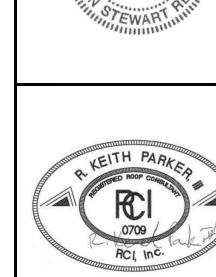
REVISION # REVISION DATE

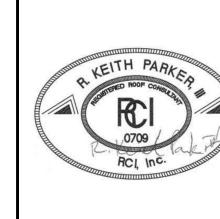


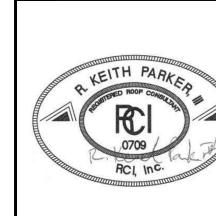












BUILDING

REVISION # REVISION DATE DRAWN BY: CGB SCALE: N.T.S.

DATE: 03/04/2015 LOADING PLAN

