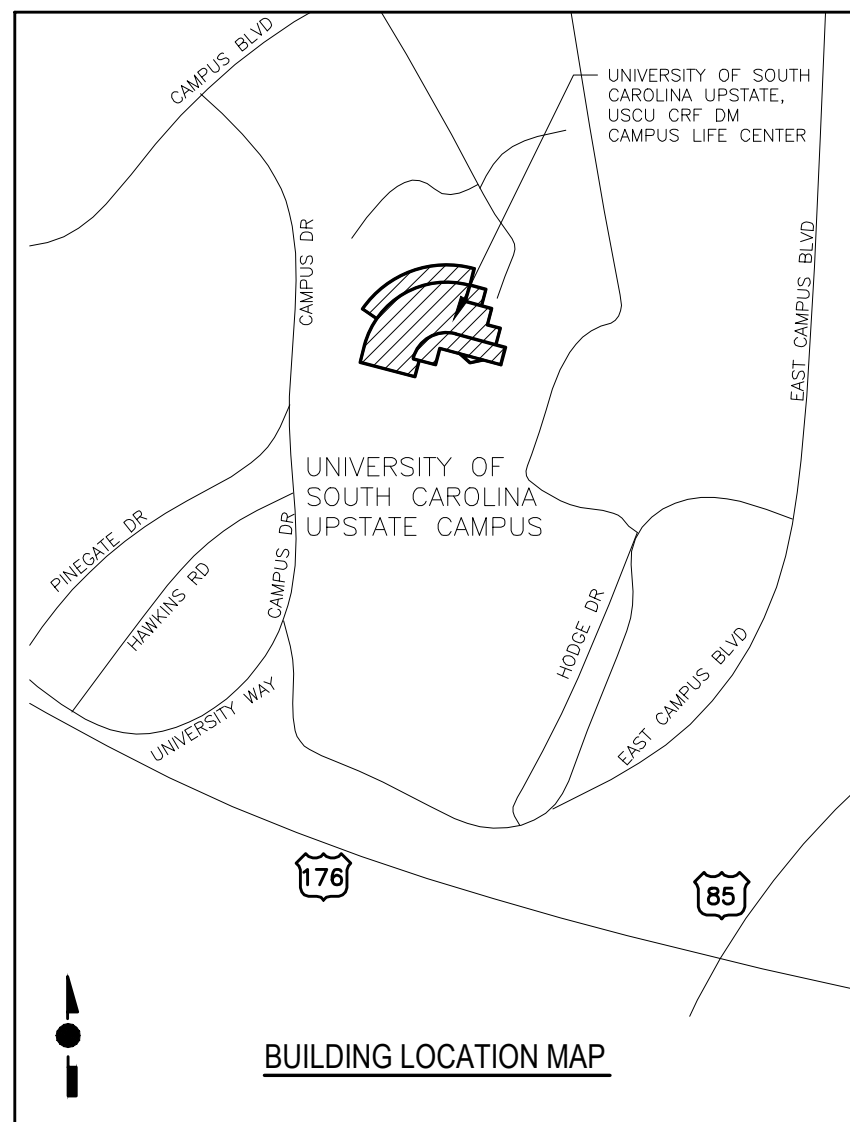


















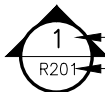


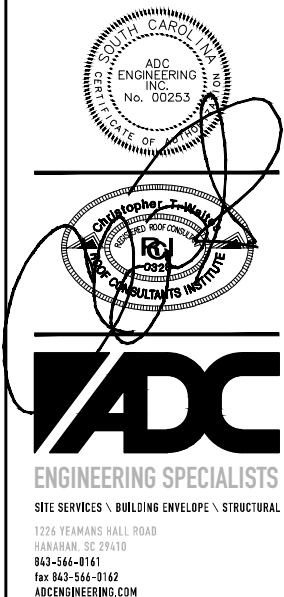
UNIVERSITY OF SOUTH CAROLINA UPSTATE

OWNER PROJECT NUMBER: H34-9542-JM-D
ADC PROJECT NUMBER:11337



LEGEND		ABBREVIATIONS	
	SAMPLE TAKEN, R=ROOF F=FLASHING S=STICK ROOF AREA / LEVEL LOCATION OF SAMPLE CORE	A ANSI	ABANDONED AMERICAN NATIONAL STANDARDS INSTITUTE
	ROOF AREA SYMBOL	BIA DS EPDM ETC	BRICK INDUSTRY ASSOCIATION DOWNSPOUT SINGLE PLY ET CETERA
RD 	ROOF DRAIN	HVAC LB MAX MIN	HEAT/VENTILATION/AIR CONDITION POUND MAXIMUM MINIMUM
VTR 	VENT THROUGH ROOF	N.I.C. NRCA	NOT IN CONTRACT NATIONAL ROOFING CONTRACTORS ASSOCIATION
	PARAPET WALL	O.C. OSHA	ON CENTER OCCUPATIONAL SAFETY AND HEALTH ASSOCIATION
	ROOF SCUTTLE	PVC RD	POLYVINYLCHLORIDE ROOF DRAIN
	ROOF PENETRATION	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS ASSOCIATION, INC.
	GRAVITY VENT	SWRI	SEALANT WATERPROOFING RESTORATION INSTITUTE
	SLOPE DIRECTION	TYP VTR W/	TYPICAL VENT THRU ROOF WITH
	STACK		
	VENTILATOR		
	LADDER		
	LIGHT		
	PIPE PENETRATION		
OF 	OVERFLOW SCUPPER		
	DEMOLITION ITEM		
	EQPT SYMBOL		
	HVAC UNIT		
DETAILS/SECTION IDENTIFIER		DRAWING INDEX	
	DETAIL/SECTION LABEL	R101	COVER SHEET
	SHEET SHOWN ON	R102	GENERAL NOTES
		R103	EXISTING ROOF PLAN
		R104	NEW ROOF PLAN
		R105	TAPER ROOF PLAN
		R201	DETAILS / SECTIONS
		R202	DETAILS / SECTIONS
		R203	DETAILS / SECTIONS

CAMPUS LIFE CENTER SELECTIVE BUILDING
ENVELOPE REPAIRS - ROOF REPLACEMENT
OWNER PROJECT NUMBER: H34-9542-JM-D
ADC PORJECT NUMBER: 11337
UNIVERSITY OF SOUTH CAROLINA UPSTATE
800 UNIVERSITY WAY
SPARTANBURG, SOUTH CAROLINA



DATE: 2/26/2013
 ADC PROJECT #: 11337
 DESIGNED: CTW
 CHECKED: CTW
 DRAWN: DAN
 REVISION:

COVER SHEET

R101

SUMMARY OF WORK

- A. THE BUILDING WILL REMAIN COMPLETELY FUNCTIONAL DURING THE CONSTRUCTION WORK AND SHALL BE FULLY PROTECTED AT ALL TIMES.
- B. BASE BID WORK INCLUDES TOTAL REMOVAL OF EXISTING ROOFING SYSTEMS DOWN TO THE STRUCTURAL DECK ON ROOF AREA B FOR APPROXIMATELY 150 SQUARES. ROOF REPLACEMENT INCLUDES DECK REPLACEMENT, MINOR DECK REPAIRS, ROUGH CARPENTRY, ROOF INSULATION, INCLUDING TAPER, AND A THREE-PLY FIBERGLASS FELT AND MODIFIED BITUMEN CAP SHEET ROOF SYSTEM. ALL ASSOCIATED SHEET METAL COMPONENTS AND ACCESSORIES ARE INCLUDED.
1. THIS WORK INCLUDES DEMOLITION OF THE EXISTING ROOF SYSTEM(S) DOWN TO THE DECK IN ACCORDANCE WITH SECTION 02 04 00, CUTTING AND PATCHING AND SECTION 02 05 00, DEMOLITION AND REMOVAL.
 2. MODIFICATIONS AND REPAIRS TO METAL FORM DECK SYSTEMS IN ACCORDANCE WITH SECTION 05 31 23, METAL ROOF DECK REPAIR.
 3. METAL FABRICATIONS, LADDERS AND LADDER BRACKETS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SECTION 05 55 00, METAL FABRICATION.
 4. ROUGH CARPENTRY IN ACCORDANCE WITH SECTION 06 10 00, ROUGH CARPENTRY.
 5. ROOF INSULATION IN ACCORDANCE SECTION 07 22 00, THERMAL ROOF INSULATION.
 6. ROOF MEMBRANE, MEMBRANE FLASHINGS, ASSOCIATED COMPONENTS AND ACCESSORIES IN ACCORDANCE WITH SECTION 07 53 07, MODIFIED BITUMEN CAP SHEET AND FELT ROOFING SYSTEM.
 7. SHEET METAL, COMPONENTS AND ACCESSORIES PER SECTION 07 60 00, SHEET METAL.
 8. REPLACEMENT OF SEALANT SYSTEMS FROM THE ROOFING AND SHEET METAL IN ACCORDANCE WITH SECTION 07 92 00, SEALANTS FOR ROOFING AND SHEET METAL.
- C. UNIT PRICES AND ALLOWANCES ARE INCLUDED IN ACCORDANCE WITH SECTION 01 21 10, UNIT PRICES AND ALLOWANCES.

UNIT PRICE QUANTITIES

1. IN ACCORDANCE WITH SECTION 01 11 00, SUMMARY OF WORK, THE CONTRACT DOCUMENTS INCLUDE WITHIN THE BASE BID SPECIFIC QUANTITIES.
2. THE SPECIFIC QUANTITIES ARE LISTED WITHIN THE INDIVIDUAL SPECIFICATION SECTIONS OF THIS PROJECT AND ARE INCLUDED ON THE BID FORM AS NOTED.

A SINGLE UNIT PRICE WILL BE PROVIDED FOR EACH ITEM, TO BE USED AS AN 'ADD' OR 'DEDUCT', BASED ON ACTUAL FIELD CONDITIONS. ANY QUANTITY ABOVE OR BELOW THESE SPECIFIED AMOUNTS WILL RESULT IN AN 'ADD' OR 'DEDUCT' TO THE CONTRACT SUM BASED ON THE REQUIRED UNIT PRICES.
3. IN ACCORDANCE WITH SECTION 01 21 10 UNIT PRICES AND ALLOWANCES, THE FOLLOWING DOCUMENTATION IS REQUIRED.
 - A. THE CONTRACTOR SHALL MAINTAIN A LOG OF ALL REPAIR UNIT PRICED QUANTITIES USED BASED ON CONTRACT REQUIREMENTS.
 - B. CONTRACTOR SHALL NOTIFY OWNER IN WRITING WHEN 80% OF QUANTITY IS USED FOR EACH UNIT PRICE ITEM.
 - C. OWNER IS NOT RESPONSIBLE FOR QUANTITIES WHICH EXCEED 80% UNLESS OWNER IS NOTIFIED IN WRITING PRIOR TO EXCEEDING THESE QUANTITIES, AND CONTRACTOR RECEIVES APPROVAL TO PROCEED.
 - D. PROVIDE PHOTOGRAPH OR VIDEOTAPE DOCUMENTATION OF REPAIRS AND ACTUAL QUANTITIES USED.
 - E. LOCATE QUANTITIES AND SHOW THEIR LOCATIONS ON DRAWINGS.
 - F. PROVIDE ACTUAL USED QUANTITIES ON EACH APPLICATION FOR PAYMENT REQUEST.
4. PROVIDE SUMMARY OF UNIT QUANTITIES 'REQUIRED' VERSE 'USED' AND ABOVE DOCUMENTATION WHEN REQUESTED, AND AS PART OF PROJECT CLOSE-OUT REQUIREMENTS OF SECTION 01 77 00, CONTRACT CLOSE-OUT.

GENERAL M/E/P AND COORDINATION NOTES

1. DISCONNECT AND REMOVE ALL ROOFTOP MECHANICAL AND ELECTRICAL EQUIPMENT AS NECESSARY TO COMPLETE THE WORK AND REINSTALL UPON COMPLETION OF WORK. PROVIDE FOR EXTENSION AND MODIFICATION OF SERVICE, UTILITIES, INTERIOR COMPONENTS AND ALL CONNECTIONS AS NECESSARY TO ACCOMMODATE NEW HEIGHTS AND LOCATIONS.
2. ANY CABLES, WIRES, SATELLITE OR MICROWAVE DISHES, ANTENNAS AND ROOFTOP MECHANICAL, ELECTRICAL OR ELECTRONIC COMPONENTS SHALL BE TEMPORARILY DISCONNECTED AND RECONNECTED BY QUALIFIED CRAFTSMEN. THIS INCLUDES ROOF AREAS, FLASHINGS AND ADJACENT WALL AREAS.
3. EXTEND/RAISE ALL PENETRATIONS, CURBS, MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS TO A MINIMUM 8" ABOVE THE FINISHED ROOF SURFACE.
4. A MINIMUM DISTANCE OF 12 INCHES SHALL EXIST BETWEEN ANY AND ALL PENETRATIONS AND/OR TERMINATIONS.
5. USE ROUND SHAPES TO CONSTRUCT EQUIPMENT SUPPORTS AND DO NOT USE PITCH PANS.
6. INSTALL NEW GRAY PVC CONDENSATE LINES WITH "P-TRAPS" ROUTED INTO DRAINS FROM HVAC UNITS.
7. ANY LOCATIONS/CONDITIONS WHERE THE ABOVE REQUIREMENTS CANNOT BE MET, SHALL BE BROUGHT TO THE ATTENTION OF THE ROOF CONSULTANT/ENGINEER OR OWNER IMMEDIATELY.

CONSTRUCTION NOTES

1. SUBSTRATE SHALL BE INSPECTED AND REPAIRED AS SPECIFIED PRIOR TO SYSTEM INSTALLATION.
2. PROVIDE ALL NEW WOOD PRODUCTS AS REQUIRED TO PROVIDE FOR INDICATED DETAILS AND TO MEET SPECIFIED REQUIREMENTS. CONTRACTOR MAY REUSE EXISTING CARPENTRY WHICH ARE SOUND AND COMPATIBLE WITH THE NEW WORK SPECIFIED. EXISTING DAMAGED OR DETERIORATED CARPENTRY NOT OTHERWISE INDICATED FOR REPLACEMENT SHALL BE REMOVED AND REPLACED IN ACCORDANCE WITH SECTION 01 21 10, UNIT PRICES AND ALLOWANCES, AND SECTION 06 10 00, ROUGH CARPENTRY.
3. CARPENTRY THICKNESSES AS REQUIRED TO MATCH BUILDING CONDITIONS. STACKED CONFIGURATIONS AND VARYING THICKNESSES MAY BE REQUIRED TO MATCH INSULATION THICKNESSES WITHIN A 1/4" TOLERANCE IN ALL DIRECTIONS.
4. ROOFING AND SHEET METAL WORK SHALL BE IN STRICT ACCORDANCE WITH THE CONTRACT REQUIREMENTS. ANY CLARIFICATIONS OR ADDITIONAL INFORMATION SHALL BE IN ACCORDANCE WITH PUBLISHED GUIDELINES OF NRCA ROOFING AND WATERPROOFING MANUAL (5th EDITION) AND SMACNA ARCHITECTURAL SHEET METAL MANUAL (6th EDITION).
5. ALL FLASHING TERMINATIONS SHALL HAVE CONFORMING WATERTIGHT SHEET METAL CLOSURES, AND WATERPROOF UNDERLAYMENT ALL SHEETMETAL BELOW W/ SEALED LAPS.
6. SPECIFIC AND TYPICAL DETAILS ARE PROVIDED W/ GENERIC TYPE DECK SHOWN. TYPICAL DETAILS APPLY TO ALL INSTANCES WHERE SIMILAR CONDITION OCCURS.
7. ALL WORK SHALL BE CONDUCTED IN A SUBSTANTIAL WORKMANLIKE MANNER IN ACCORDANCE WITH SPECIFIED REQUIREMENTS.
8. INSTALL TAPERED CRICKETS TO PROVIDE POSITIVE DRAINAGE ON THE UPSLOPE SIDE OF ALL NON-ROUND PENETRATIONS GREATER THAN 24" WIDE.
9. WALKPADS ARE REQUIRED. INSTALL EACH WALKPAD 12" FROM THE NEXT AND 12" AWAY FROM WALLS AND CURBS.

GENERAL NOTES

1. PRIOR TO PERFORMING WORK, CONTRACTOR SHALL INSPECT DECK SURFACES AND SUBSTRATE CONDITIONS. PROVIDE FOR THE SAFETY AND PROTECTION OF WORKERS AND OCCUPANTS THROUGHOUT THE COURSE OF WORK.
2. ALL BUILDING DIMENSIONS, EXISTING CONDITIONS, ITEM LOCATIONS, AND SIZE AND QUANTITY OF PENETRATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BID.
3. LAYDOWN / STORAGE AREA IS LIMITED AND SHALL BE AS APPROVED BY THE OWNER.
4. SITE SHALL BE CLEANED ON A DAILY BASIS AND SECURED AT THE END OF EACH WORK DAY.
5. BUILDING ACCESS SHALL BE COORDINATED WITH THE OWNER AND SHALL BE ONLY AS REQUIRED TO ACCOMPLISH CONTRACT WORK.

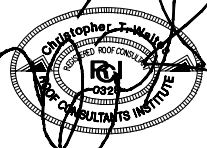
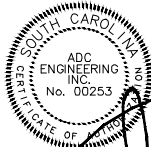
DEMOLITION NOTES

1. SEE SECTION 01 50 00, CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS, SECTION 02040, CUTTING AND PATCHING, AND SECTION 02 05 00, DEMOLITION AND REMOVAL.
2. REMOVE EXISTING SYSTEMS IN THEIR ENTIRETY DOWN TO THE EXISTING DECK IN INDICATED AREAS OF ROOF REPLACEMENT. AVOID DAMAGING THE ROOF DECK. NO MORE ROOFING SHALL BE REMOVED THAN CAN BE REPLACED BY THE COMPLETE NEW ROOF SYSTEM THE SAME DAY.
3. BUILDING ENVELOPE DEMOLITION IS REQUIRED TO THE VARIOUS COMPONENTS AND SYSTEMS TO COMPLETE THE REQUIRED REPAIRS, MODIFICATIONS AND REPLACEMENTS OF THIS PROJECT.
4. REMOVE IDENTIFIED ABANDONED PENETRATIONS SHOWN ON DRAWINGS.
5. EXISTING NAILERS AND BLOCKING SHALL BE ADDRESSED PER CONSTRUCTION NOTES.
6. REMOVE ALL ROOF, TRIM, SIDING, FLASHINGS AND ACCESSORIES AS NOTED, SPECIFIED OR REQUIRED TO COMPLETE THE WORK, ALL NEW SHEET METAL REQUIRED UNLESS OTHERWISE INDICATED.
7. THE UNDERSIDE (INTERIOR SIDE) OF THE DECK MAY HAVE HVAC, ELECTRICAL FIXTURES, ETC. ATTACHED. THE CONTRACTOR SHALL HAVE QUALIFIED CRAFTSMEN REMOVE AND REINSTALL ALL AFFECTED ITEMS OF THE DEMOLITION OF ROOFING TO COMPLETE THE WORK AND TO REPAIR/REPLACE DECKING. THE LOCATION AND METHOD OF ATTACHMENT SHALL BE THE SAME AS THE ORIGINAL, UNLESS DIRECTED OR APPROVED OTHERWISE BY THE ROOF CONSULTANT AND/OR THE OWNER.
8. ALL DEMOLITION SHALL ADHERE TO ANSI AND OSHA GUIDELINES, AND SECTION 01 52 50.

PROTECTION NOTES

1. FACILITIES MAY BE OCCUPIED DURING CONSTRUCTION. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE FACILITY, CONTENTS, AND OCCUPANTS.
2. THE BUILDING SHALL BE WATERTIGHT AT THE END OF EACH DAY'S WORK AND WHEN INCLEMENT WEATHER THREATENS.
3. CONTRACTOR SHALL PROTECT THE BUILDING EXTERIOR AND GROUNDS INCLUDING SURFACES, GRASS, PLANTS, TREES, SHRUBS, AND OTHER LANDSCAPING. THE CONTRACTOR SHALL RETURN THE SITE AND ANY DAMAGED ITEMS TO ORIGINAL OR BETTER CONDITION.
4. ANY SURFACES STAINED, MARRED, OR DAMAGED BY THE WORK OR THE CONTRACTOR, THE CONTRACTOR SHALL RETURN THE SITE AND ANY DAMAGED ITEMS OF THE SITE OR FACILITY TO ORIGINAL OR BETTER CONDITION AND MATCH ADJACENT SURFACES.
5. WORK SHALL BE SEQUENCED TO MINIMIZE TRAFFIC ON THE NEW WORK.
6. ASPHALT FUME RECOVERY SYSTEM AND LOW FUMING ASPHALTS ARE REQUIRED AT ALL TIMES.

CAMPUS LIFE CENTER SELECTIVE BUILDING
ENVELOPE REPAIRS - ROOF REPLACEMENT
OWNER PROJECT NUMBER: H34-9542-JM-D
ADC PROJECT NUMBER: 11337
UNIVERSITY OF SOUTH CAROLINA UPSTATE
800 UNIVERSITY WAY
SPARTANBURG, SOUTH CAROLINA



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DATE: 2/28/2013

ADC PROJECT #: 11337

DESIGNED: CTW

CHECKED: CTW

DRAWN: DAN

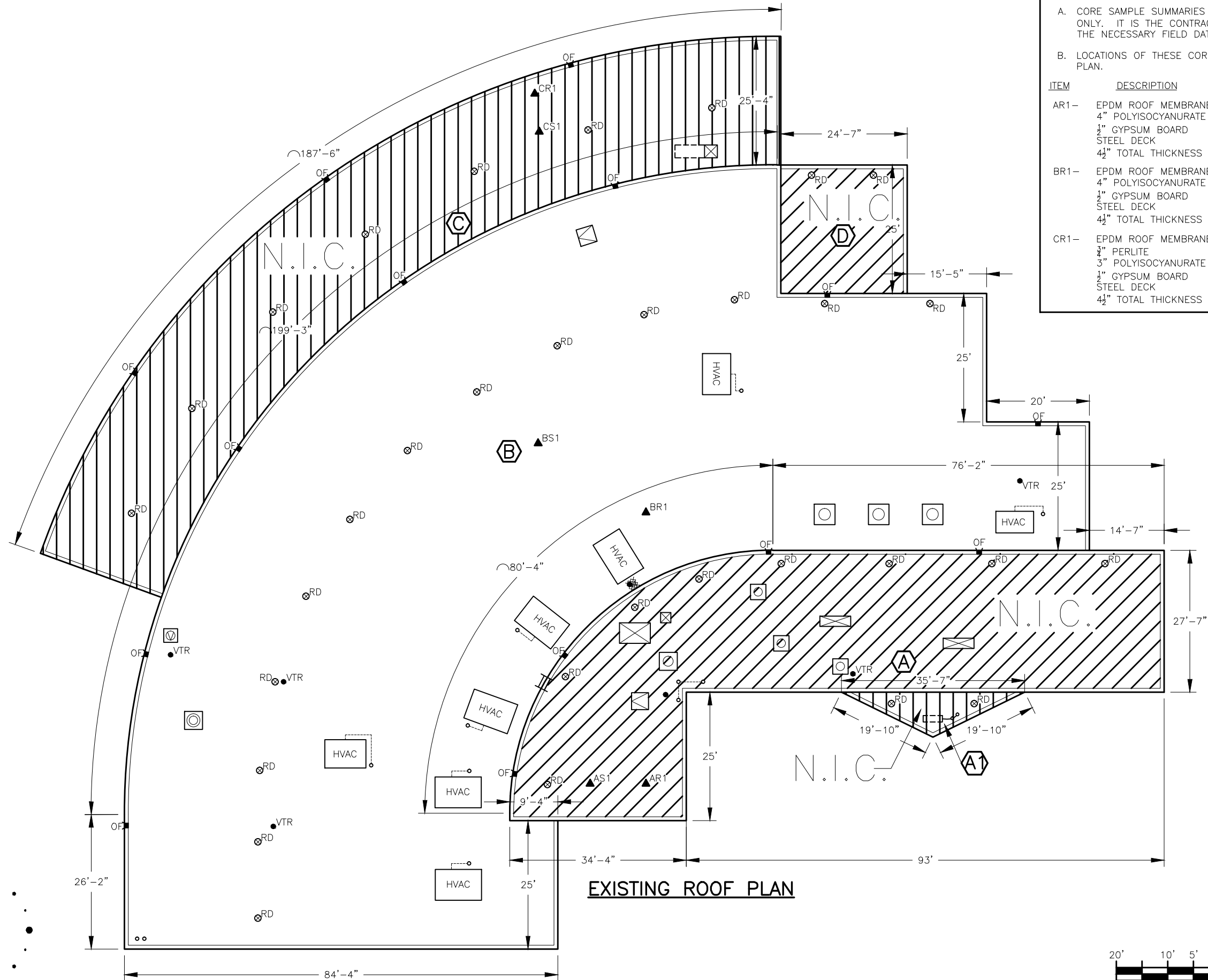
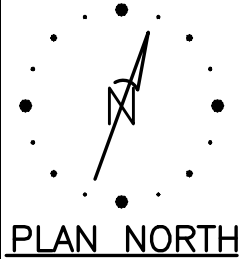
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GENERAL NOTES

R102

SHEET 2 OF 8

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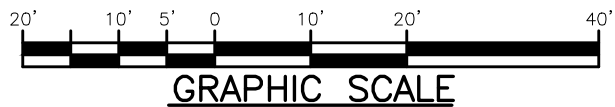


CORE SAMPLE SUMMARY

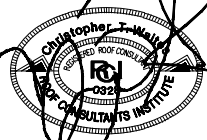
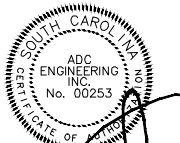
- A. CORE SAMPLE SUMMARIES ARE PROVIDED AS GENERAL INFORMATION ONLY. IT IS THE CONTRACTORS' SOLE RESPONSIBILITY TO COLLECT THE NECESSARY FIELD DATA TO PREPARE THEIR BID.
- B. LOCATIONS OF THESE CORES ARE SHOWN ON THE EXISTING ROOF PLAN.

ITEM	DESCRIPTION	ITEM	DESCRIPTION
AR1-	EPDM ROOF MEMBRANE 4" POLYISOCYANURATE 1/2" GYPSUM BOARD STEEL DECK 4 1/2" TOTAL THICKNESS	AS1-	4 1/2" TOTAL THICKNESS
BR1-	EPDM ROOF MEMBRANE 4" POLYISOCYANURATE 1/2" GYPSUM BOARD STEEL DECK 4 1/2" TOTAL THICKNESS	BS1-	4 1/2" TOTAL THICKNESS
CR1-	EPDM ROOF MEMBRANE 3/4" PERLITE 3" POLYISOCYANURATE 1/2" GYPSUM BOARD STEEL DECK 4 1/2" TOTAL THICKNESS	CS1-	3 1/2" TOTAL THICKNESS

EXISTING ROOF PLAN



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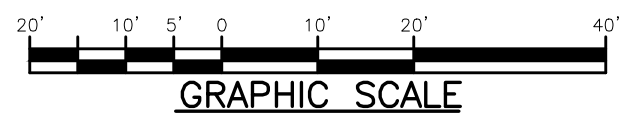
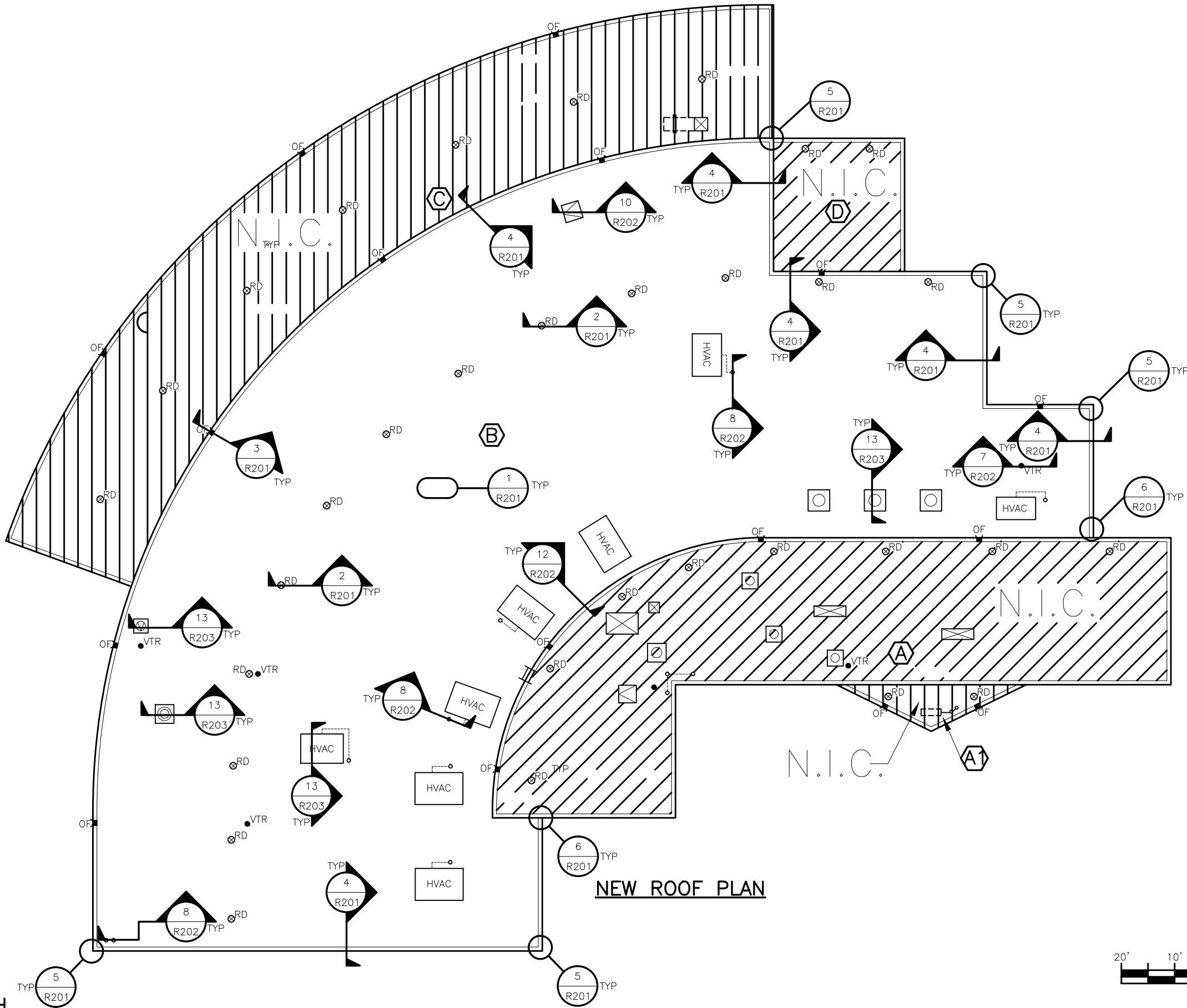
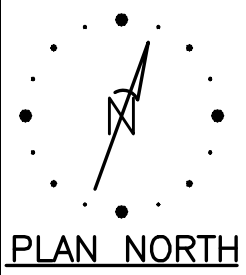


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DATE: 2/28/2013
ADC PROJECT #: 11337
DESIGNED: CTW
CHECKED: CTW
DRAWN: DAN
REVISION:

EXISTING ROOF
PLAN

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GRAPHIC SCALE

CONSTRUCTION DOCUMENTS

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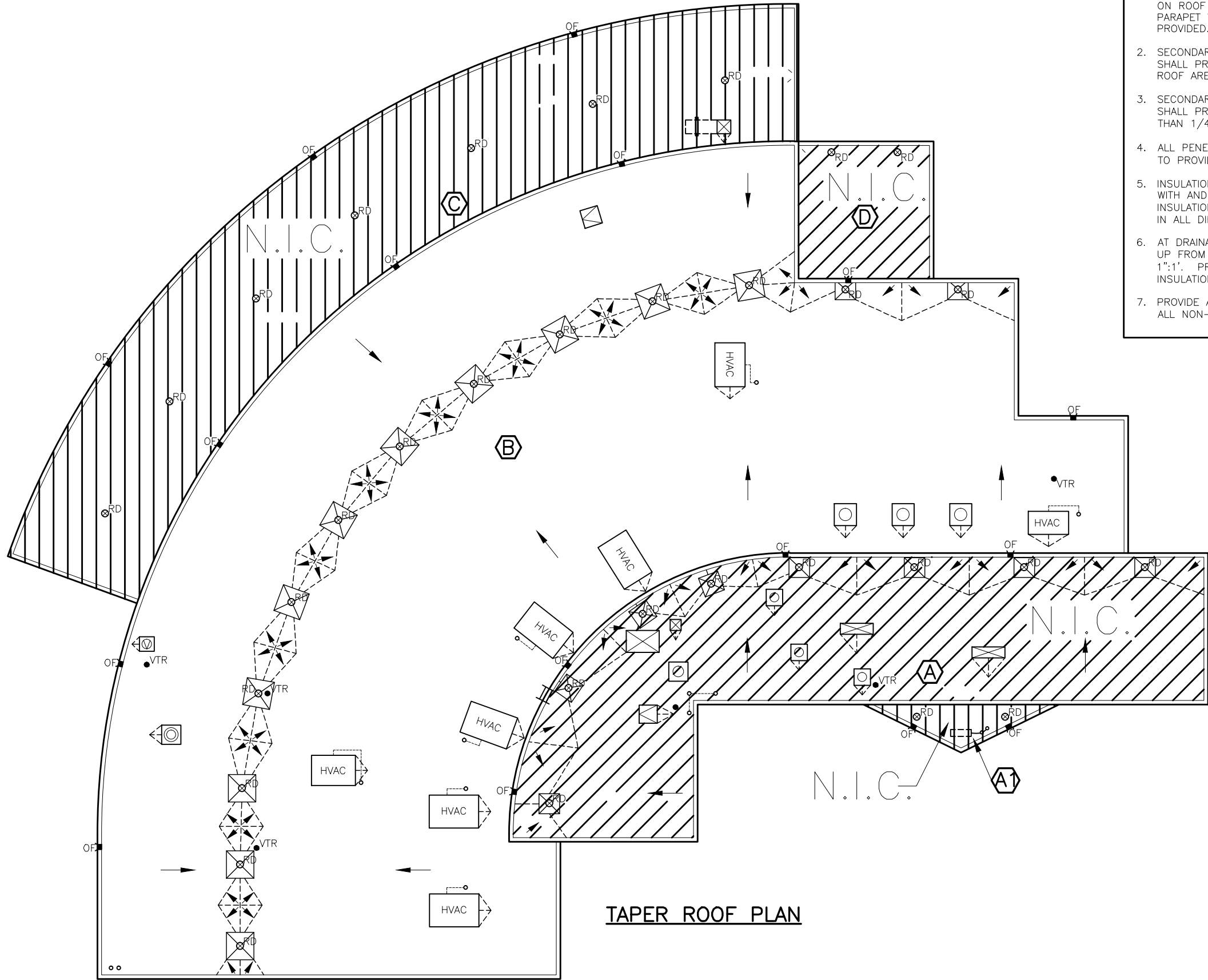
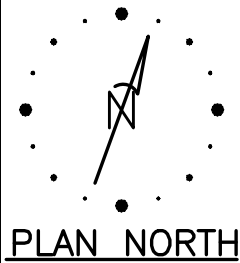
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CHECKED:	CTW
DRAWN:	DAN
REVISION:	

NEW ROOF
PLAN

R104

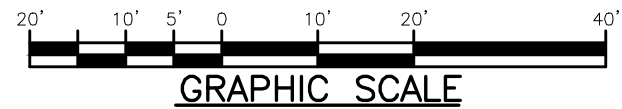
SHEET 4 OF 8

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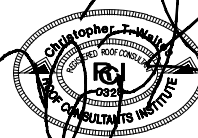
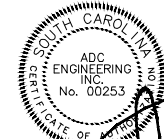


TAPERED INSULATION NOTES

1. THE PRIMARY SLOPE IS IN THE EXISTING METAL DECK ON ROOF AREA B, EXCEPT FROM DRAIN LINE TO PARAPET WALLS WHERE 2x PRIMARY SLOPE SHALL BE PROVIDED.
2. SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS) SHALL PROVIDE A MINIMUM AS SPECIFIED FOR ALL ROOF AREAS.
3. SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS) SHALL PROVIDE A FINISHED SLOPE OF NOT LESS THAN 1/4":1'.
4. ALL PENETRATIONS/TERMINATIONS SHALL BE RAISED TO PROVIDE MINIMUM 8" BASE FLASHING HEIGHT.
5. INSULATION THICKNESSES SHALL BE COORDINATED WITH AND MATCH NAILER THICKNESSES AND ADJACENT INSULATION THICKNESSES WITHIN A 1/4" TOLERANCE IN ALL DIRECTIONS.
6. AT DRAINAGE LOCATIONS ENSURE INSULATION TAPERS UP FROM DRAIN A MINIMUM 1/4":1' AND A MAXIMUM 1":1'. PROVIDE TAPERED FILLER TO MATCH FIELD INSULATION THICKNESSES.
7. PROVIDE A TAPERED CRICKET ON THE HIGH SIDE OF ALL NON-ROUND PENETRATIONS WIDER THAN 24".



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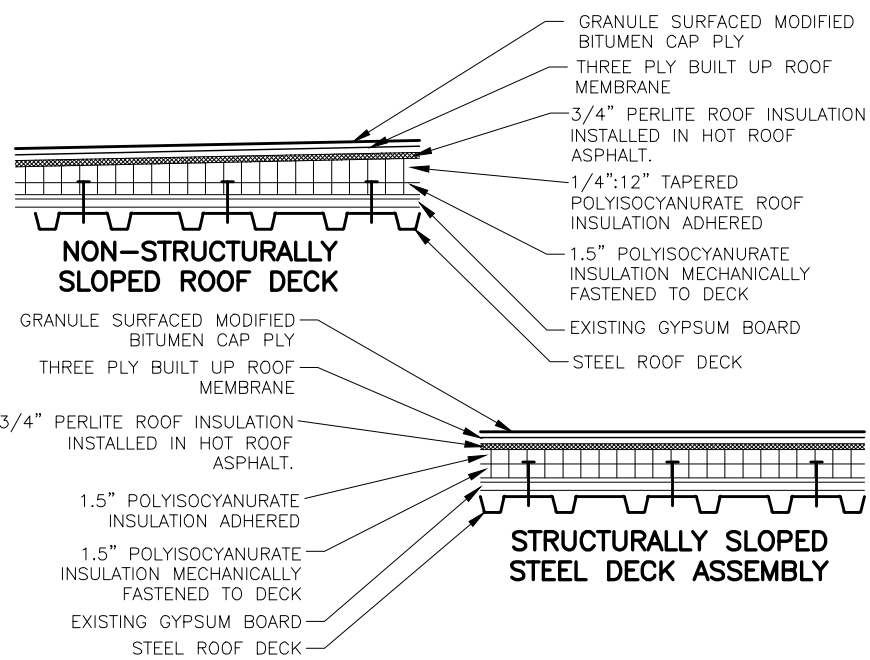
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DATE:	2/28/2013
ADC PROJECT #:	11337
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DRAWN:	DAN
REVISION:	

TAPER ROOF
PLAN

R105
SHEET 5 OF 8

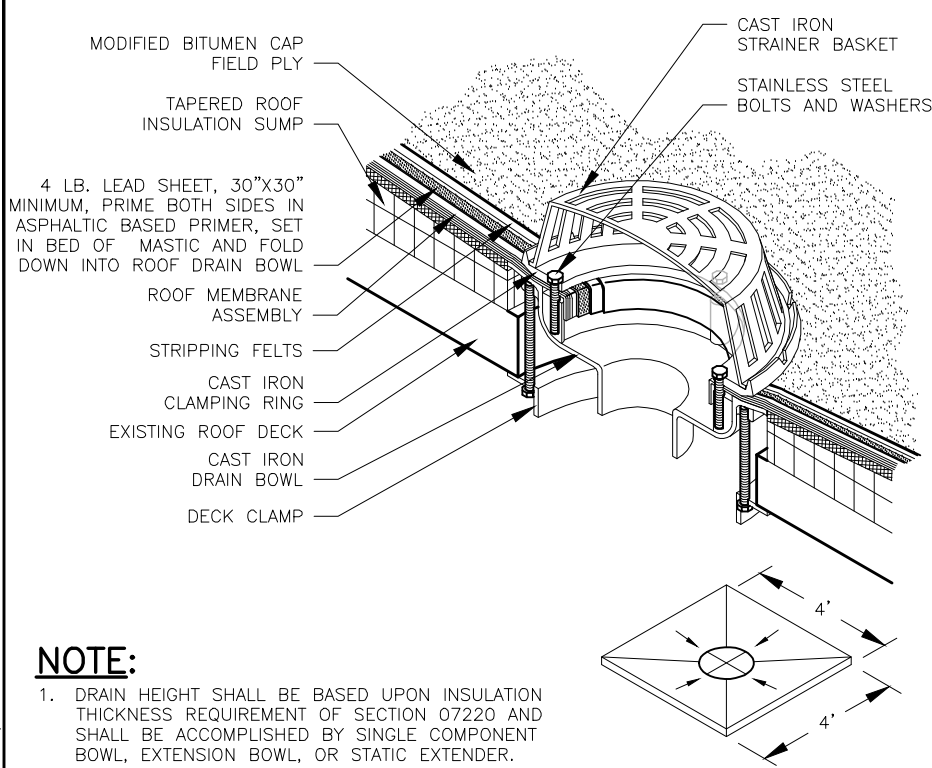
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NOTES:

1. MINIMUM AVERAGE R-VALUE OF 20 IS REQUIRED TO BE PROVIDED.
2. TAPER INSULATION TO BE PROVIDED FOR SECONDARY SLOPES (I.E. SUMPS AT ROOF DRAINS, CRICKETS, ETC.). JOINTS OFFSET AND STAGGERED BETWEEN LAYERS OF INSULATION.
3. SIDE AND END LAPS OFFSET AND STAGGERED BETWEEN PLIES OF ROOF MEMBRANE.
4. SUPPLEMENT NAILER ANCHORAGE AS NECESSARY TO CONFORM WITH SPECIFIED REQUIREMENTS. PROVIDE NAILERS AS REQUIRED.
5. FASTENERS USED TO ATTACH TREATED WOOD PRODUCTS SHALL BE COMPATIBLE WITH THE PRODUCTS AND CONDITION OF ATTACHMENT AS SPECIFIED. SEPARATION BETWEEN SHEET METAL AND TREATED CARPENTRY IS REQUIRED AS SPECIFIED.

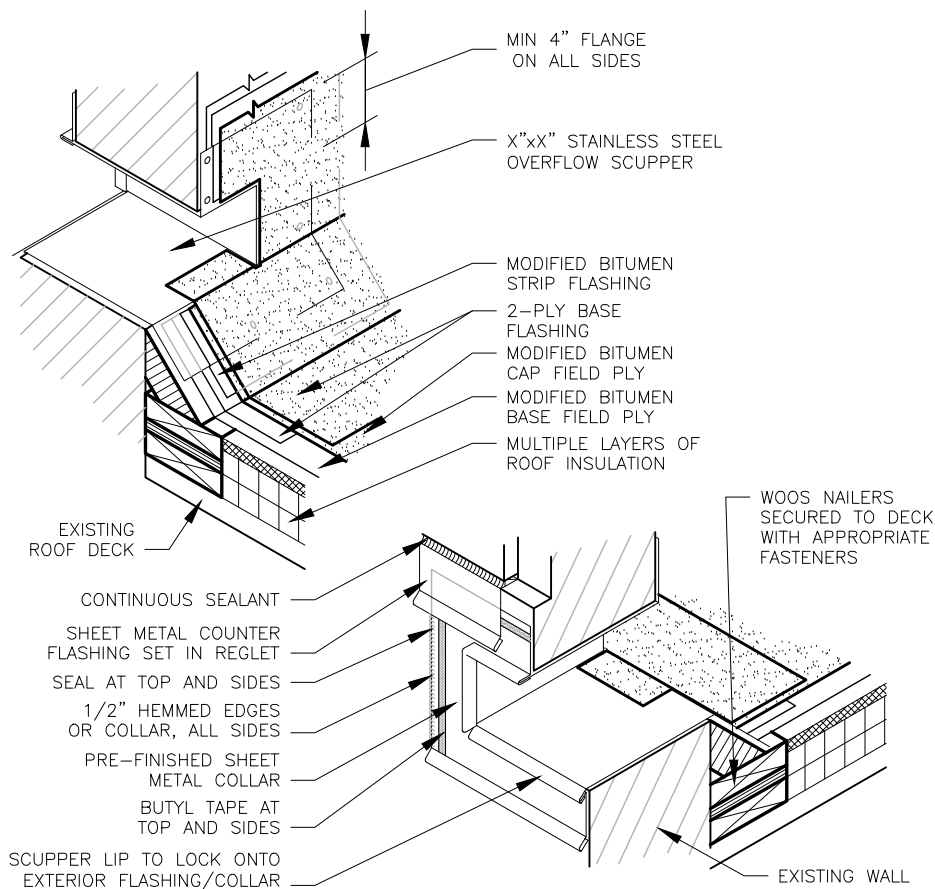
1 ROOF ASSEMBLY
R201 NOT TO SCALE (TYPICAL)



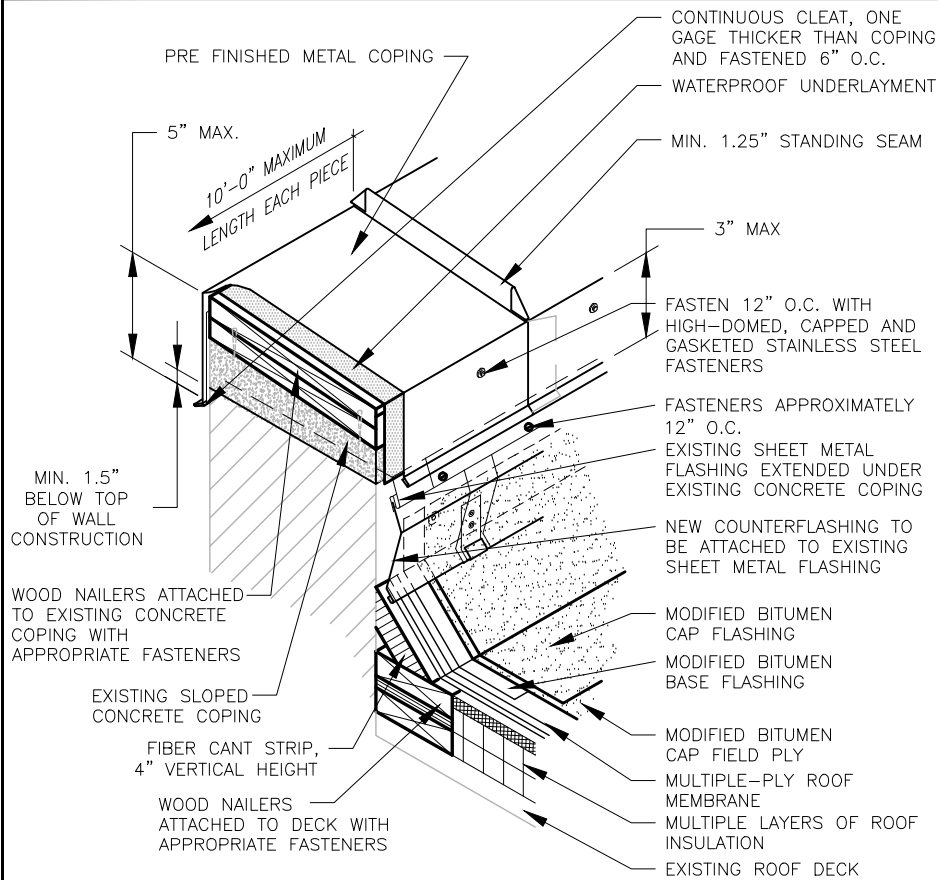
NOTE:

1. DRAIN HEIGHT SHALL BE BASED UPON INSULATION THICKNESS REQUIREMENT OF SECTION 07220 AND SHALL BE ACCOMPLISHED BY SINGLE COMPONENT BOWL, EXTENSION BOWL, OR STATIC EXTENDER.

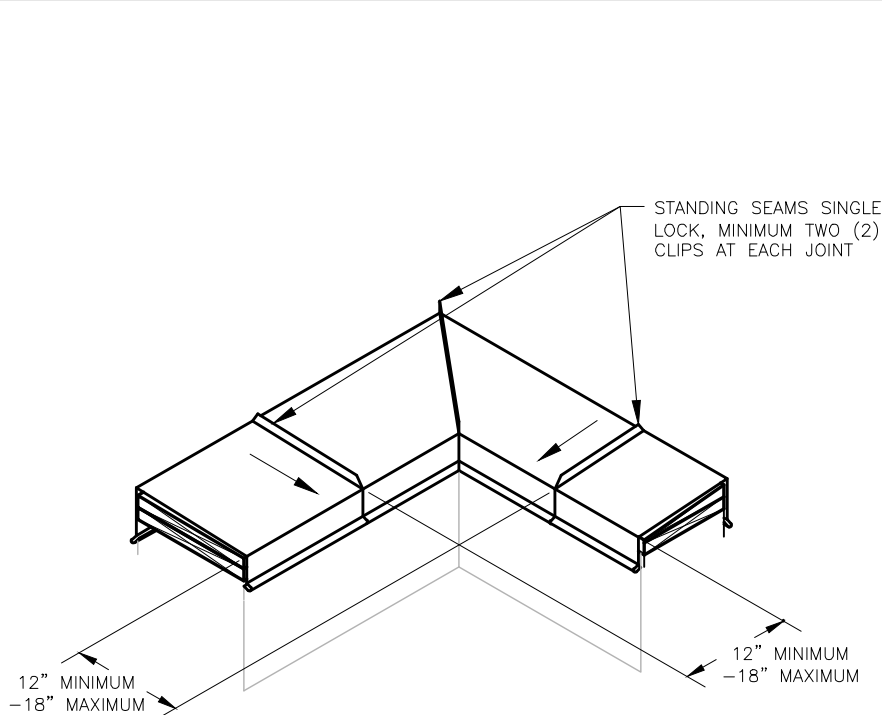
2 ROOF DRAIN
R201 NOT TO SCALE (TYPICAL)



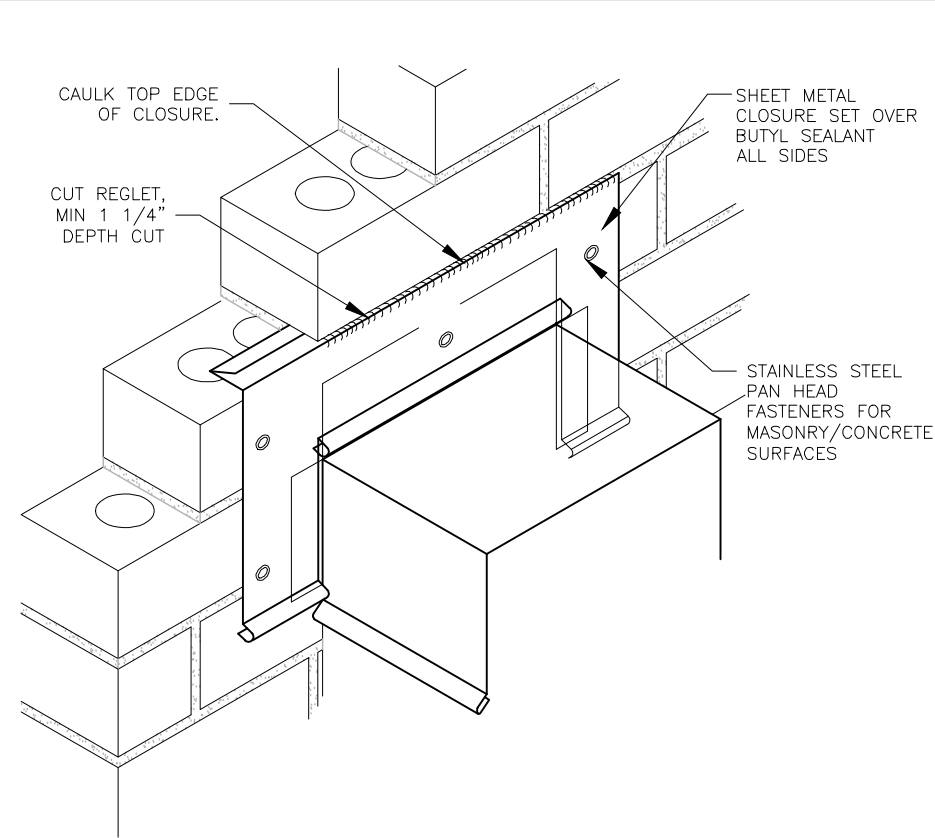
3 OVERFLOW SCUPPER
R201 NOT TO SCALE (TYPICAL)



4 BASE FLASHING AT PARAPET
R201 NOT TO SCALE (TYPICAL)

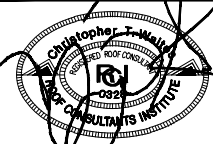
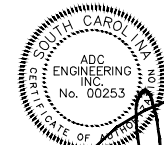


5 COPING PREFABRICATED CORNER
R201 NOT TO SCALE (TYPICAL)



6 COPING TERMINATION AT WALL
R201 NOT TO SCALE (TYPICAL)

CAMPUS LIFE CENTER SELECTIVE BUILDING
ENVELOPE REPAIRS - ROOF REPLACEMENT
OWNER PROJECT NUMBER: H34-9542-JM-D
ADC PROJECT NUMBER: 11337
UNIVERSITY OF SOUTH CAROLINA UPSTATE
800 UNIVERSITY WAY
SPARTANBURG, SOUTH CAROLINA



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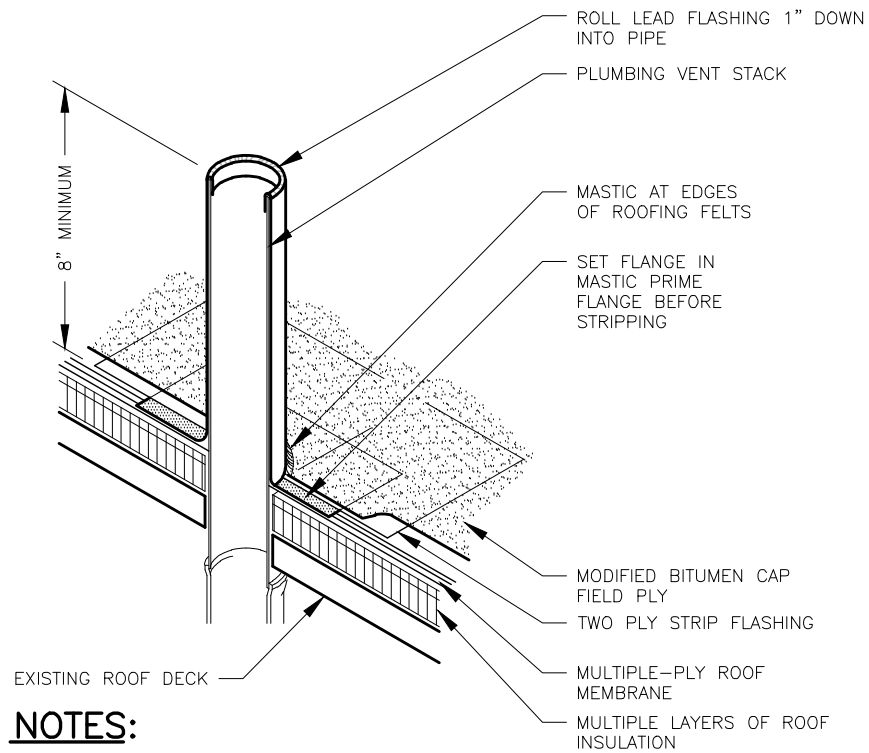
DATE: 2/28/2013
ADC PROJECT #: 11337
DESIGNED: CTW
CHECKED: CTW
DRAWN: DAN
REVISION:

DETAILS/
SECTIONS

R201

SHEET 6 OF 8

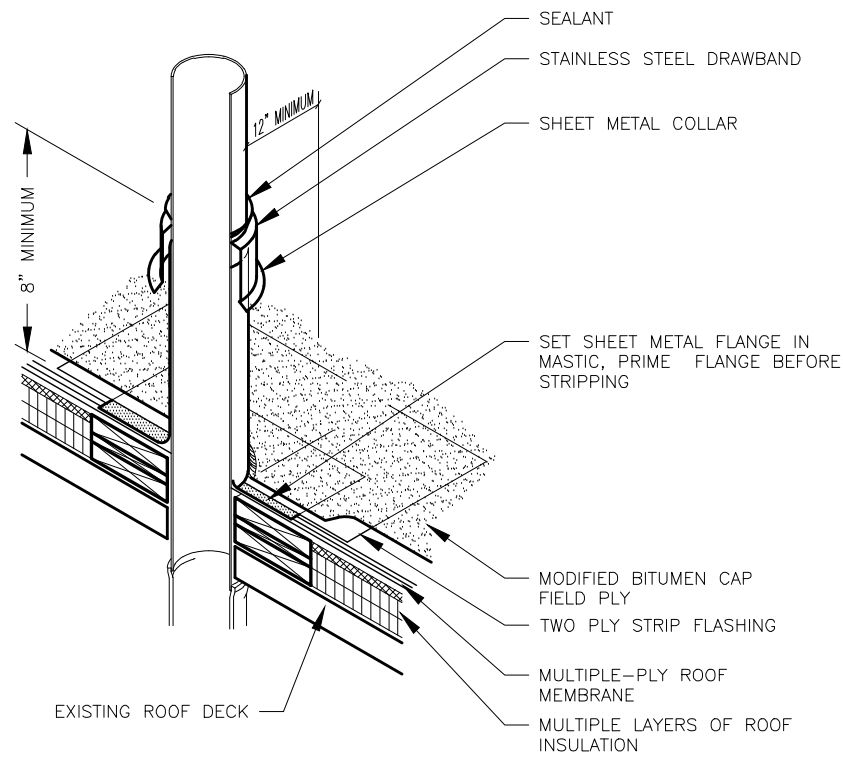
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NOTES:

1. SHEET LEAD MINIMUM OF 4 LB PER SQUARE FOOT.
2. RAISE VTR USING CAST IRON PIPE AND COUPLING BELOW TO MINIMUM EIGHT INCH HEIGHT ABOVE FINISHED ROOF.

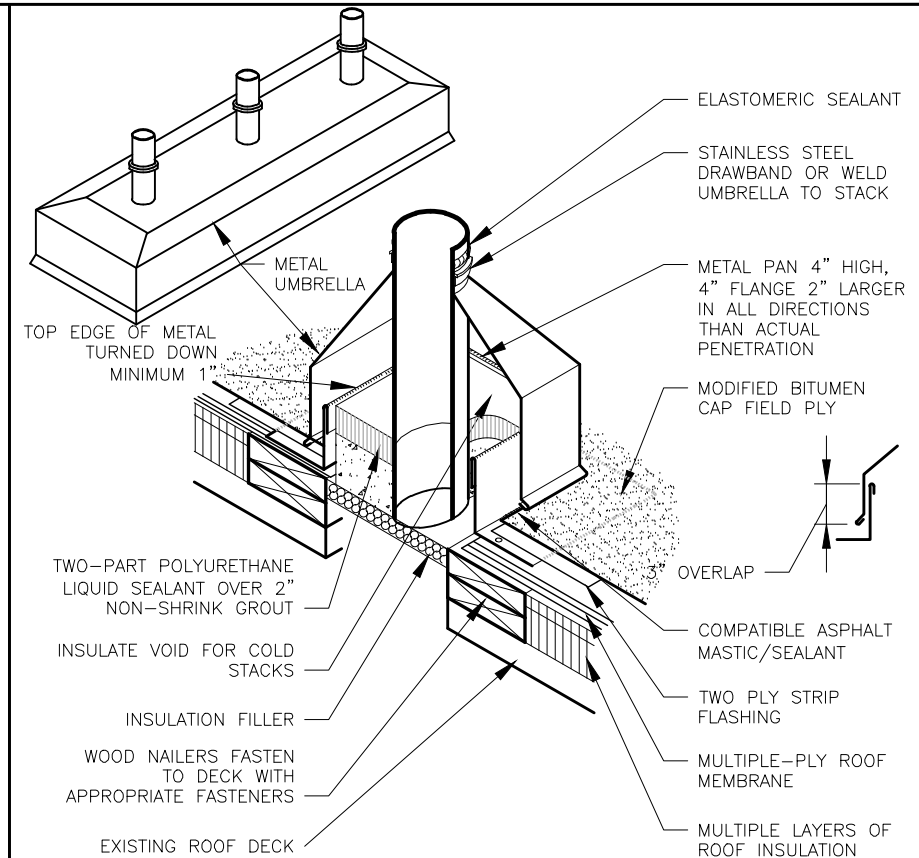
7 PLUMBING VENT FLASHING
R202 NOT TO SCALE (SIMILAR)



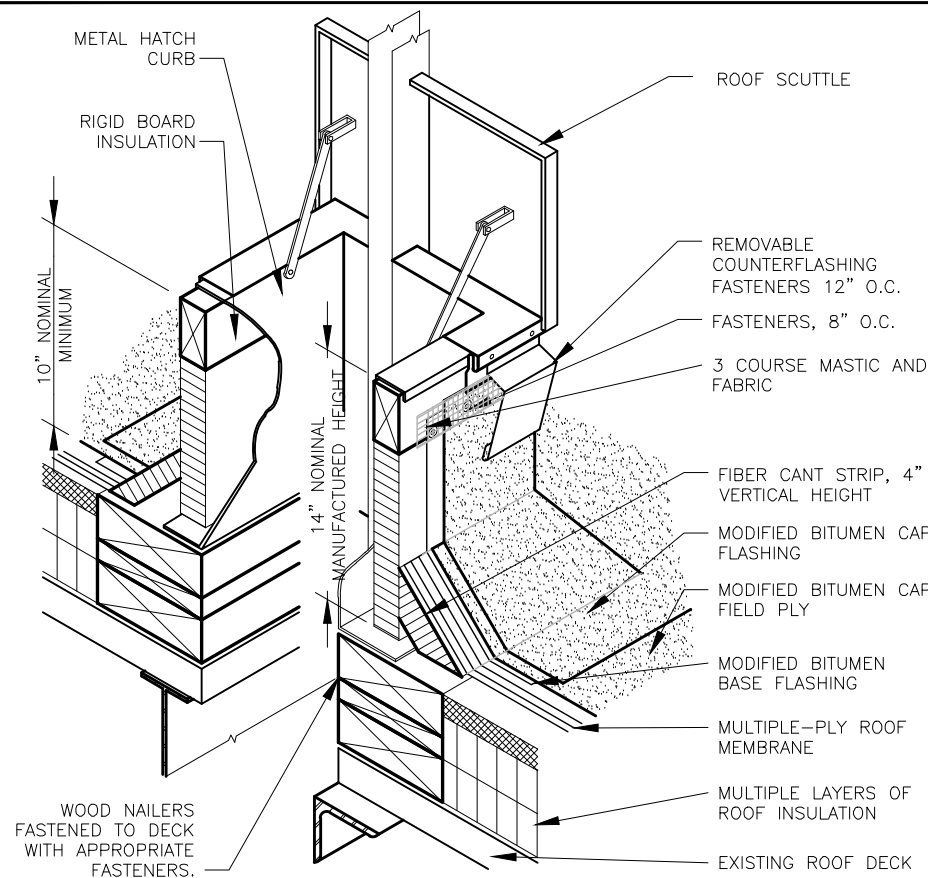
NOTE:

1. SEE SMACNA FIGURE 4-15C, UMBRELLA DETAIL.

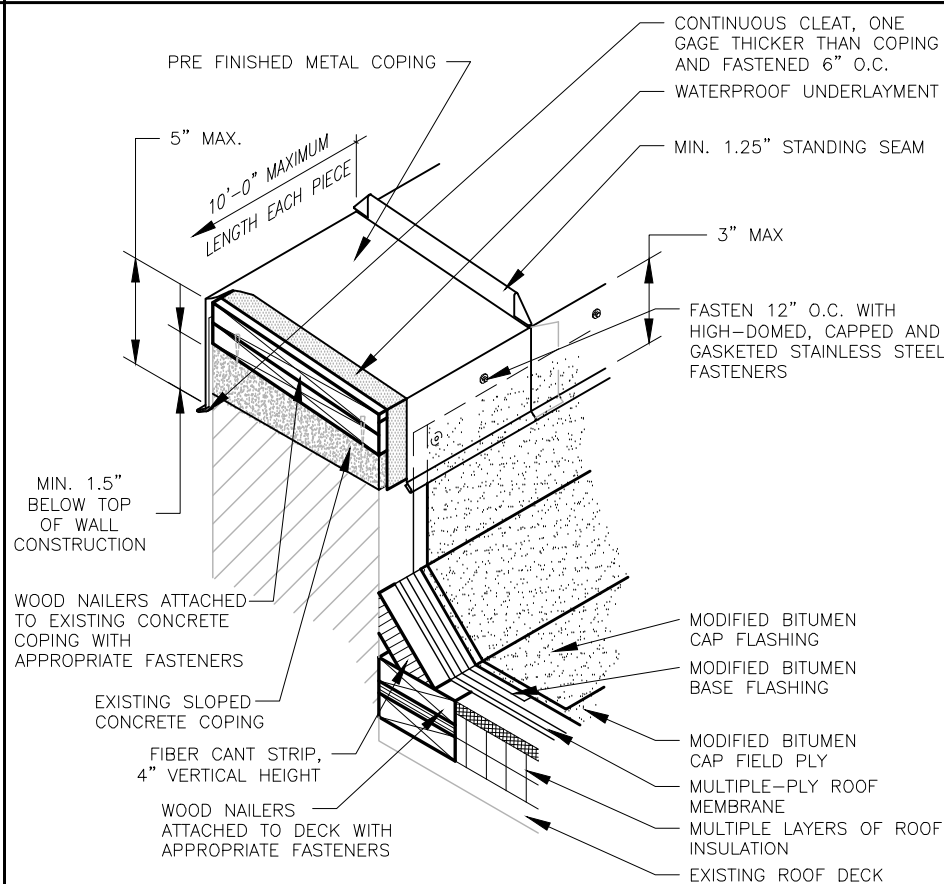
8 PIPE PENETRATION
R202 NOT TO SCALE (TYPICAL)



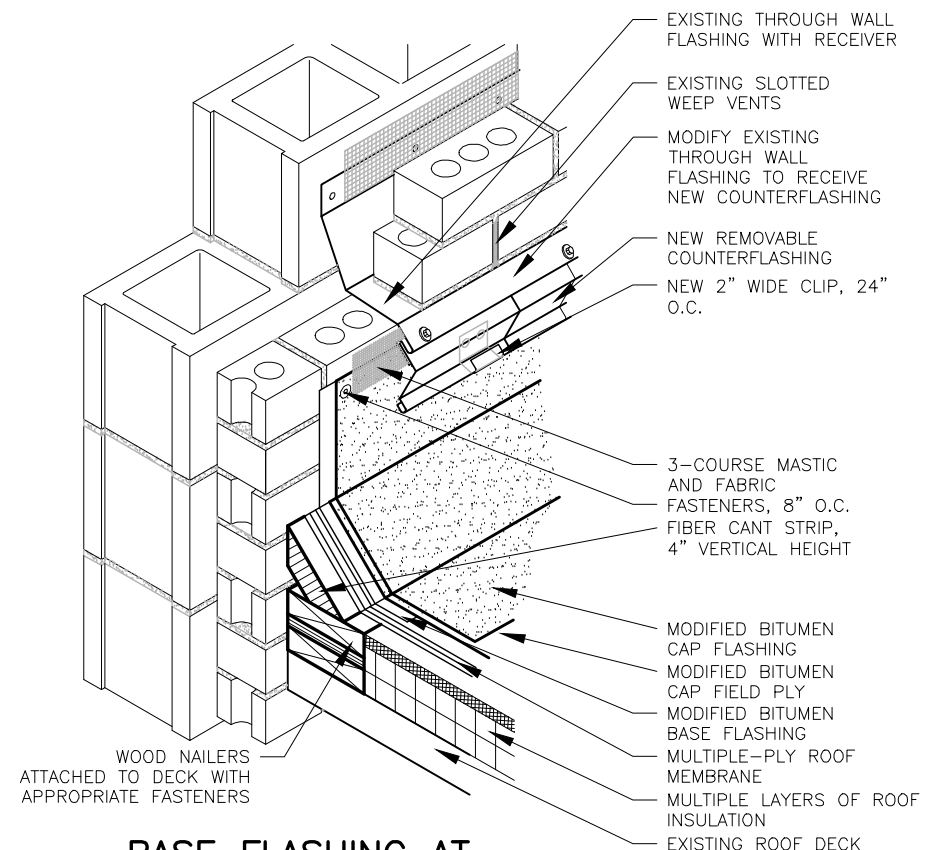
9 PITCH PAN WITH UMBRELLA
R202 NOT TO SCALE (TYPICAL)



10 ROOF HATCH
R202 NOT TO SCALE (TYPICAL)

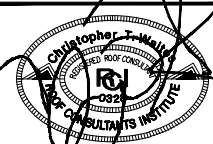


11 BASE FLASHING AT PARAPET
R202 NOT TO SCALE (TYPICAL)



12 BASE FLASHING AT MASONRY WITH THROUGH WALL
R202 NOT TO SCALE (TYPICAL)

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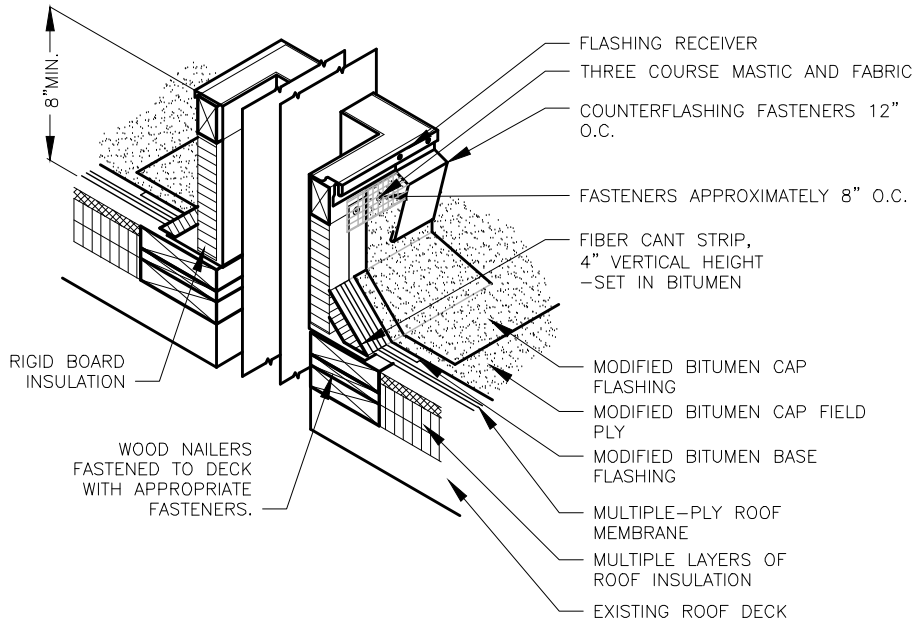
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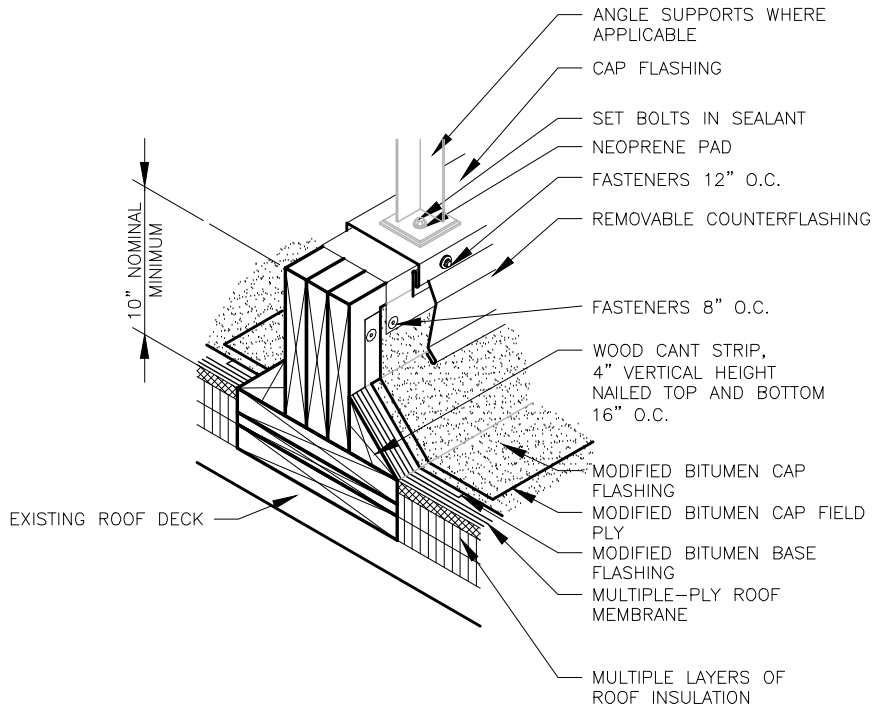
SHEET 7 OF 8

CONSTRUCTION DOCUMENTS

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13 METAL CURB
R203 NOT TO SCALE (TYPICAL)



14 EQUIPMENT SUPPORT CURB
R203 NOT TO SCALE (TYPICAL)

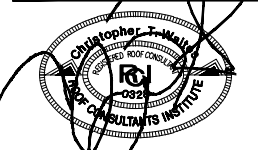
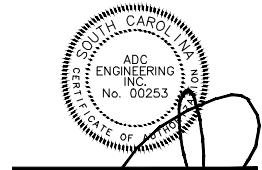
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