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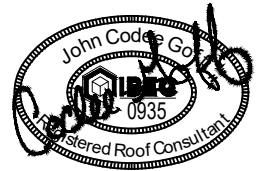


**CENTRAL CAROLINA  
TECHNICAL COLLEGE**

# MAIN CAMPUS ROOF REPLACEMENT

OWNER PROJECT NUMBER: H59-6233-PD

BEE PROJECT NUMBER: 22050

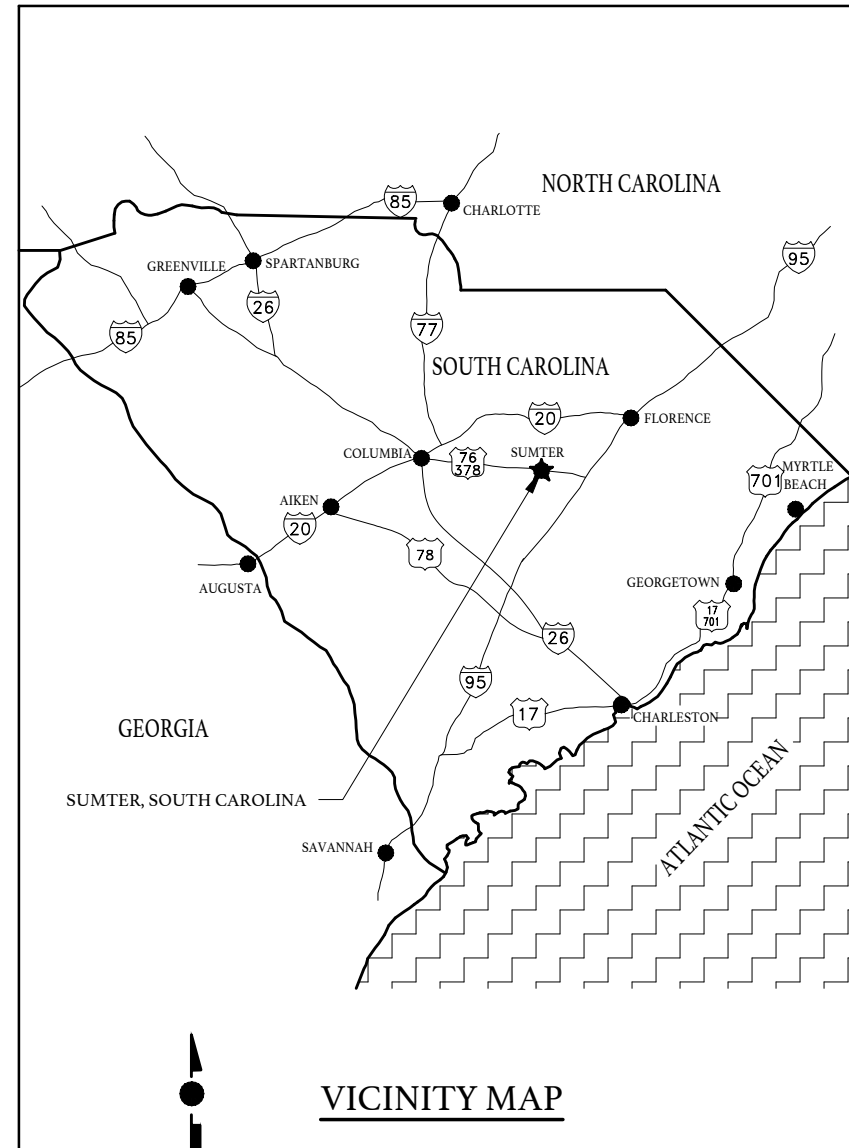


ABBREVIATIONS	
A	ABANDONED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
BIA	BRICK INDUSTRY ASSOCIATION
DS	DOWNSPOUT
ETC	ET CETERA
HVAC	HEAT/VENTILATION/AIR CONDITION
N.I.C.	NOT IN CONTRACT
NRCA	NATIONAL ROOFING CONTRACTORS ASSOCIATION
O.C.	ON CENTER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ASSOCIATION
PVC	POLYVINYLCHLORIDE
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS ASSOCIATION, INC.
SWRI	SEALANT WATERPROOFING RESTORATION INSTITUTE
TYP	TYPICAL
W/	WITH

DETAILS/SECTION IDENTIFIER	
	DETAIL/SECTION LABEL
	SHEET SHOWN ON

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R400	DETAILS/SECTIONS
R401	DETAILS/SECTIONS
R402	DETAILS/SECTIONS
R403	DETAILS/SECTIONS
R404	DETAILS/SECTIONS
R405	DETAILS/SECTIONS
R406	DETAILS/SECTIONS

LEGEND	
	SAMPLE TAKEN, R=ROOF
	F=FLASHING S=SPIKE
	ROOF AREA / LEVEL
	LOCATION OF SAMPLE CORE
	ROOF AREA SYMBOL
	SLOPE INDICATOR
	ROOF DRAIN
	OVERFLOW DRAIN
	ROOF VENT
	VENT THRU ROOF
	PITCH PAN
	OVERFLOW SCUPPER
	CONDUCTOR HEAD TO DOWNSPOUT W/ SPLASH BLOCK
	GUTTER W/ DOWNSPOUT TO SPLASH BLOCK
	GUTTER EXPANSION JOINT
	STACK
	VENTILATOR
	VENTILATOR
	CAPPED CURB
	UNIT PENETRATION
	UNIT ON PRE FABRICATED PAD
	SKYLIGHT
	GOOSE NECK
	ELECTRICAL LINE
	RAISED METAL ROOF EDGE
	COPPER STANDING SEAM
	HATCH FOR DEMOLITION
	APPROXIMATE AREA OF REPAIR/COATING
	APPROXIMATE LEAK LOCATION
	APPROXIMATE AREA OF PONDING



CENTRAL CAROLINA TECHNICAL COLLEGE  
**MAIN CAMPUS  
ROOF REPLACEMENT**  
 OWNER PROJECT NUMBER: H59-6233-PD  
 BEE PROJECT NUMBER: 22050  
 SUMTER, SOUTH CAROLINA

DATE:	02/09/2024
BEE PROJECT #:	22050
DESIGNED:	JCG
CHECKED:	JCG
DRAWN:	BSC
REVISION:	

**COVER SHEET**

R100

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## SUMMARY OF WORK

- A. THE BUILDING WILL REMAIN COMPLETELY FUNCTIONAL AND FULLY PROTECTED AT ALL TIMES DURING THE CONSTRUCTION WORK. ALL INGRESS/EGRESS TO FACILITY AND PEDESTRIAN WALKWAYS MUST BE MAINTAINED WITH OVERHEAD PROTECTION WHEN CONSTRUCTION IS OCCURRING AT/OVER THESE AREAS.
- B. BASE BID WORK INCLUDES COMPLETE REMOVAL OF EXISTING ROOF SYSTEMS DOWN TO THE STRUCTURAL DECK FOR ROOF AREAS A1, A2 AND B1 FOR BUILDING M300A/M300B FOR APPROXIMATELY 100 SQUARES. ROOF REPLACEMENT INCLUDES MINOR DECK REPAIRS, ROUGH CARPENTRY, ROOF INSULATION, INCLUDING ADDITIONAL TAPERED INSULATION, AND A TWO-PLY MODIFIED BITUMEN ROOF SYSTEM. ALL ASSOCIATED SHEET METAL COMPONENTS AND ACCESSORIES ARE INCLUDED. BASE BID WORK ALSO INCLUDES COMPLETE REMOVAL OF ROOF DRAINS WHERE INDICATED AND PROVIDING ROOF DECK REPAIRS AND NEW OUTBOARD GUTTERS. NEW ROOF DRAINS ARE TO BE INSTALLED WHERE INDICATED.
  - 1. DEMOLITION OF THE EXISTING ROOFING 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. ASBESTOS ABATEMENT OF NON-FRIABLE ASBESTOS CONTAINING ROOFING MATERIALS (ACRM) IN ACCORDANCE WITH SECTION 02 82 16, ENGINEERING CONTROL OF NON-FRIABLE ASBESTOS CONTAINING ROOFING MATERIALS, FOR BASE BID, BUILDING 300 A/B FOR ROOF COATINGS ON AREAS A2 AND B1.
  - 3. MODIFICATIONS AND REPAIRS TO LIGHTWEIGHT INSULATING CONCRETE/GYPSUM IN ACCORDANCE WITH SECTION 03 52 00, LIGHTWEIGHT INSULATING CONCRETE/GYPSUM DECK REPAIR.
  - 4. MODIFICATIONS AND REPAIRS TO METAL FORM DECK SYSTEMS IN ACCORDANCE WITH SECTION 05 31 23, METAL ROOF DECK REPAIR.
  - 5. ROUGH CARPENTRY IN ACCORDANCE WITH SECTION 06 10 00, ROUGH CARPENTRY.
  - 6. ROOF MEMBRANE, INSULATION, MEMBRANE FLASHINGS, ASSOCIATED COMPONENTS, AND ACCESSORIES IN ACCORDANCE WITH SECTION 07 55 27, ROOF REPLACEMENT MODIFIED BITUMEN SHEET ROOFING SYSTEM.
  - 7. SHEET METAL, COMPONENTS, AND ACCESSORIES IN ACCORDANCE WITH 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. ALTERNATE NUMBER 1 WORK INCLUDES THE SAME SCOPE AS THE BASE BID FOR ROOF REPLACEMENT AT BUILDING M700 FOR APPROXIMATELY 100 SQUARES. WORK ALSO INCLUDES COMPLETE REMOVAL OF ROOF DRAINS WHERE INDICATED AND PROVIDING ROOF DECK REPAIRS AND NEW OUTBOARD GUTTER.
- D. ALTERNATE NUMBER 2 WORK INCLUDES THE SAME SCOPE AS THE BASE BID FOR ROOF REPLACEMENT AT BUILDING S900 FOR APPROXIMATELY 85 SQUARES. WORK ALSO INCLUDES COMPLETE REMOVAL OF ROOF DRAINS WHERE INDICATED AND PROVIDING ROOF DECK REPAIRS AND NEW OUTBOARD GUTTER.
- E. UNIT PRICES AND ALLOWANCE ARE INCLUDED IN ACCORDANCE WITH SECTION 01 21 10, UNIT PRICES AND ALLOWANCE AND ARE TO BE INCLUDED IN THE BASE BID.

## 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 ALLOWANCE, 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. REMOVE ALL WOOD BLOCKING FOR PIPE SUPPORTS, CONDUITS, EQUIPMENT, AND JUNCTION BOXES, AND REPLACE PER DETAILS.
- 4. EXTEND/RAISE ALL PENETRATIONS, CURBS, MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS TO A MINIMUM 8" ABOVE THE FINISHED ROOF SURFACE.
- 5. A MINIMUM DISTANCE OF 12 INCHES SHALL EXIST BETWEEN ANY AND ALL PENETRATIONS AND/OR TERMINATIONS.
- 6. USE ROUND SHAPES TO CONSTRUCT EQUIPMENT SUPPORTS AND DO NOT USE PITCH PANS.
- 7. INSTALL NEW GRAY PVC CONDENSATE LINES WITH "P-TRAPS" ROUTED INTO DRAINS/GUTTERS FROM ALL HVAC UNITS.
- 8. ANY LOCATIONS/CONDITIONS WHERE THE ABOVE REQUIREMENTS CANNOT BE MET, SHALL BE BROUGHT TO THE ATTENTION OF THE CONSULTANT/ENGINEER AND 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 ALLOWANCE, 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 (7th EDITION).
- 5. ALL FLASHING TERMINATIONS SHALL HAVE CONFORMING WATERTIGHT SHEET METAL CLOSURES, AND WATERPROOF UNDERLAYMENT ALL SHEETMETAL BELOW WITH SEALED LAPS.
- 6. SPECIFIC AND TYPICAL DETAILS ARE PROVIDED WITH 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 AT ALL ROOF ACCESS POINTS AND AROUND ALL MECHANICAL EQUIPMENT. INSTALL EACH WALKPAD 12" FROM THE NEXT AND 12" AWAY FROM WALLS AND CURBS.

## IBC/CODE ANALYSIS

- 1. INTERNATIONAL BUILDING CODE (IBC), 2021
  - a. IBC 2021, CHAPTER 15, ROOF ASSEMBLIES AND ROOF TOP STRUCTURES
- 2. INTERNATIONAL EXISTING BUILDING CODE (IEBC), 2021

## 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

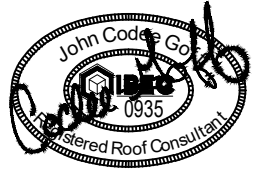
- 1. SEE SECTION 01 50 00, CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS, SECTION 02 04 00, CUTTING AND PATCHING, AND SECTION 02 05 00, DEMOLITION AND REMOVAL.
- 2. REMOVE EXISTING SYSTEMS IN THEIR ENTIRETY DOWN TO THE EXISTING DECK IN INDICATED AREAS OF ROOF REPLACEMENT. AVOID DAMAGING THE ROOF DECK. 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. REMOVAL OF ASBESTOS CONTAINING ROOFING MATERIALS, FLASHINGS, CEMENTS, MASTICS AND COATINGS IS REQUIRED. REFER TO CORE SAMPLE DATA AND SECTION 02 82 16.
- 8. 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 CONSULTANT AND/OR THE OWNER.
- 9. ALL DEMOLITION SHALL ADHERE TO ANSI AND OSHA GUIDELINES, AND SECTION 01 52 05.
- 10. THE LIGHTNING PROTECTION SYSTEM SHALL BE TEMPORARILY DISCONNECTED AND REMOVED, EACH DAY IN THE AREA OF WORK, AND RECONNECTED AT THE END OF THAT DAY. IF ANY DAMAGES, MISSING COMPONENTS, OR ISSUES ARE ENCOUNTERED, CONTRACTOR IS TO DOCUMENT AND NOTIFY OWNER/THE BEE GROUP IMMEDIATELY.

## 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.



1226 YEAMANS HALL ROAD, STE C  
HANAHAN, SC 29410



CENTRAL CAROLINA TECHNICAL COLLEGE

MAIN CAMPUS  
ROOF REPLACEMENT

OWNER PROJECT NUMBER: H59-0233-PD  
BEE PROJECT NUMBER: 22050

SUMTER, SOUTH CAROLINA

DATE: 02/09/2024

BEE PROJECT #: 22050

DESIGNED: JCG

CHECKED: JCG

DRAWN: BSC

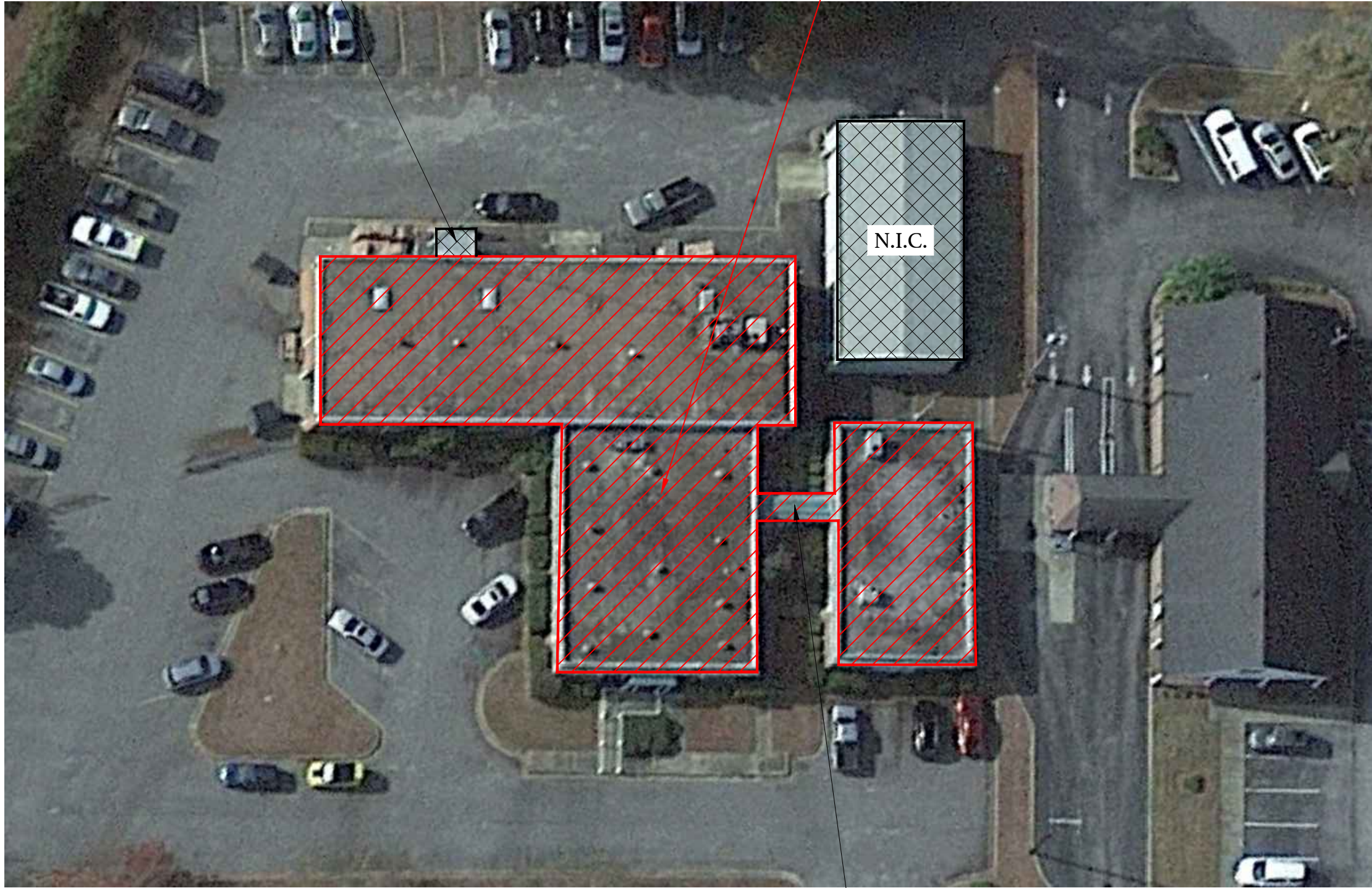
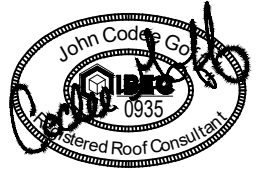
REVISION:

## GENERAL NOTES

R101

SHEET 2 OF 26

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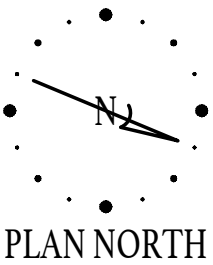
METAL CANOPIES NOT IN SCOPE UNLESS SPECIFICALLY NOTED

**BASE BID**  
ROOF REPLACEMENT BUILDING M300 ROOF AREAS A1, A2, & B1

N.I.C.

REPAIRS TO CANOPY NOTED ON R107

**AERIAL PLAN**  
**BUILDING M300 A-B (BASE BID)**

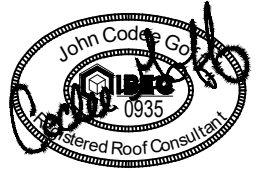


CENTRAL CAROLINA TECHNICAL COLLEGE  
**MAIN CAMPUS**  
**ROOF REPLACEMENT**  
OWNER PROJECT NUMBER: H59-6233-PD  
BEE PROJECT NUMBER: 22050  
SUMMER, SOUTH CAROLINA

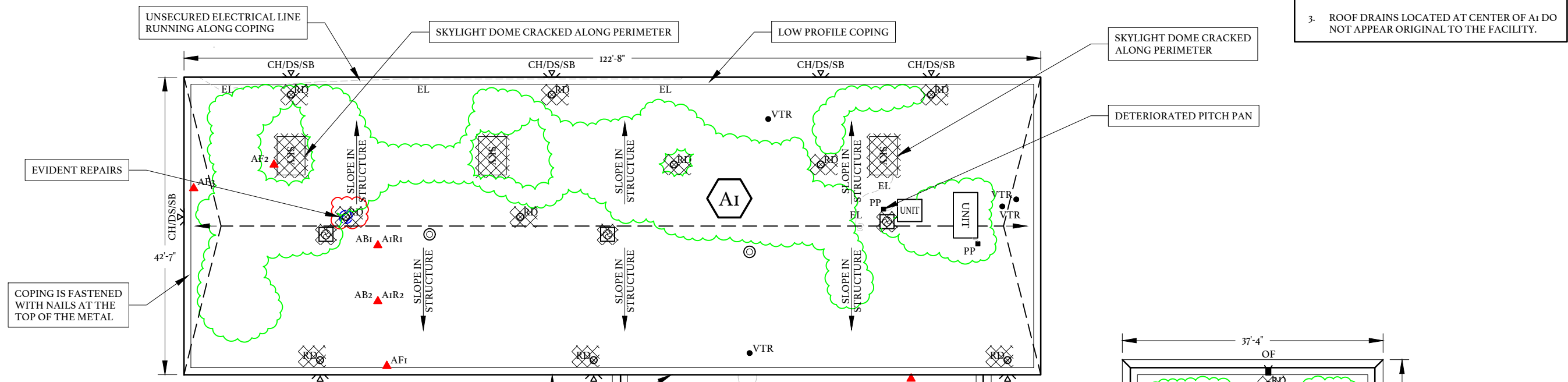
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**AERIAL PLAN**  
**BUILDING M300 A-B**  
**(BASE BID)**

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- NOTES:**
- SLOPES IN LWIC/GYPSUM WERE IRREGULAR AND PONDING IS OCCURRING THROUGHOUT ROOF AREA A1.
  - SOME SLOPE EVIDENT ON ROOF AREAS A2 AND B1, BUT SIGNIFICANT PONDING IS STILL OCCURRING.
  - ROOF DRAINS LOCATED AT CENTER OF A1 DO NOT APPEAR ORIGINAL TO THE FACILITY.

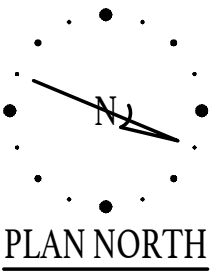
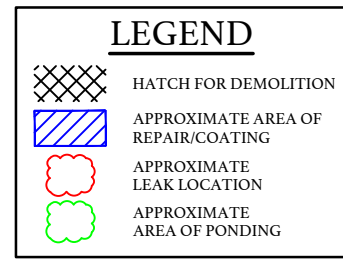
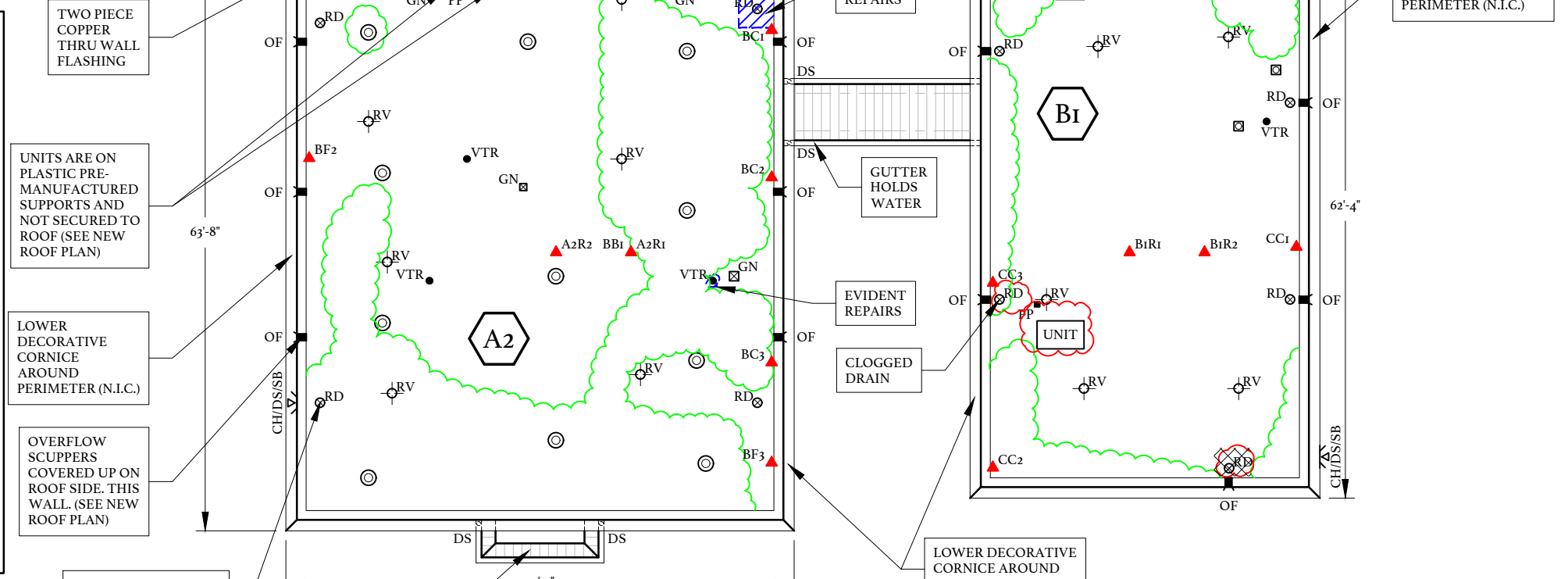


**CORE SAMPLE SUMMARY**

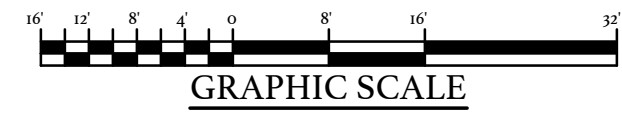
A. CORE SAMPLE SUMMARIES ARE PROVIDED AS GENERAL INFORMATION ONLY. IT IS THE CONTRACTORS' SOLE RESPONSIBILITY TO COLLECT THE NECESSARY FIELD DATA TO PREPARE THEIR BID.

B. LOCATIONS OF THESE CORES ARE SHOWN ON THE EXISTING ROOF PLAN.

ITEM	DESCRIPTION
A1R1-	GRAVEL SURFACED BUILT UP ROOF PERLITE - 1/2" BASE SHEET LWIC/GYPSUM - 2 1/2" METAL FORM TOTAL THICKNESS= 3 1/4"
A1R2-	SAME AS A1R1
A2R1-	GRAVEL SURFACED BUILT UP ROOF PERLITE - 1/2" BASE SHEET LWIC/GYPSUM - 3 1/2" METAL FORM TOTAL THICKNESS= 4 1/2"
A2R2-	SAME AS A2R1
B1R1-	GRAVEL SURFACED BUILT UP ROOF PERLITE - 1/2" BASE SHEET LWIC GYPSUM FORM
B1R2-	SAME AS B1R1



**EXISTING ROOF PLAN  
BUILDING M300 A-B (BASE BID)**



CENTRAL CAROLINA TECHNICAL COLLEGE  
**MAIN CAMPUS  
ROOF REPLACEMENT**

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SUMTER, SOUTH CAROLINA

DATE:	02/09/2024
BEE PROJECT #:	22050
DESIGNED:	JCG
CHECKED:	JCG
DRAWN:	BSC
REVISION:	

**EXISTING ROOF PLAN  
BUILDING M300 A-B  
(BASE BID)**

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BUILDING M300 A1  
PHOTO # 1



BUILDING M300 A1  
PHOTO # 2



BUILDING M300 A1  
PHOTO # 3



BUILDING M300 A1  
PHOTO # 4



BUILDING M300 A1  
PHOTO # 5



BUILDING M300 A1  
PHOTO # 6



BUILDING M300 A1  
PHOTO # 7



BUILDING M300 A1  
PHOTO # 8



BUILDING M300 A1  
PHOTO # 9



BUILDING M300 A1  
PHOTO # 10



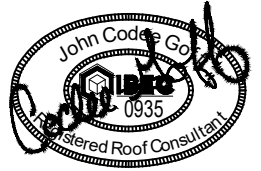
BUILDING M300 A1  
PHOTO # 11



BUILDING M300 A1  
PHOTO # 12

The **BUILDING ENVELOPE ENCLOSURE** Group

1226 YEAMANS HALL ROAD, STE C  
HANAHAN, SC 29410



CENTRAL CAROLINA TECHNICAL COLLEGE  
**MAIN CAMPUS**  
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**PHOTOGRAPH PLAN**  
**BUILDING M300 A**  
**AREA A1**  
**(BASE BID)**

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BUILDING M300 A2  
PHOTO # 13



BUILDING M300 A2  
PHOTO # 14



BUILDING M300 A2  
PHOTO # 15



BUILDING M300 A2  
PHOTO # 16



BUILDING M300 A2  
PHOTO # 17



BUILDING M300 A2  
PHOTO # 18



BUILDING M300 A2  
PHOTO # 19



BUILDING M300 A2  
PHOTO # 20



BUILDING M300 A2  
PHOTO # 21



BUILDING M300 A2  
PHOTO # 22



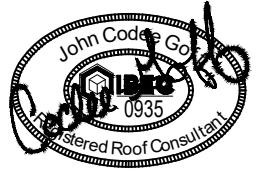
BUILDING M300 A2  
PHOTO # 23



BUILDING M300 A2  
PHOTO # 24

The  
**BUILDING  
ENVELOPE  
ENCLOSURE**  
Group

1226 YEAMANS HALL ROAD, STE C  
HANAHAN, SC 29410



CENTRAL CAROLINA TECHNICAL COLLEGE  
**MAIN CAMPUS  
ROOF REPLACEMENT**  
OWNER PROJECT NUMBER: H59-6233-PD  
BEE PROJECT NUMBER: 22050  
SUMNER, SOUTH CAROLINA

DATE:	02/09/2024
BEE PROJECT #:	22050
DESIGNED:	JCG
CHECKED:	JCG
DRAWN:	BSC
REVISION:	

**PHOTOGRAPH  
PLAN  
BUILDING M300 A  
AREA A2  
(BASE BID)**

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BUILDING M300 B1  
PHOTO # 1



BUILDING M300 B1  
PHOTO # 2



BUILDING M300 B1  
PHOTO # 3



BUILDING M300 B1  
PHOTO # 4



BUILDING M300 B1  
PHOTO # 5



BUILDING M300 B1  
PHOTO # 6



BUILDING M300 B1  
PHOTO # 7



BUILDING M300 B1  
PHOTO # 8



BUILDING M300 B1  
PHOTO # 9



BUILDING M300 B1  
PHOTO # 10



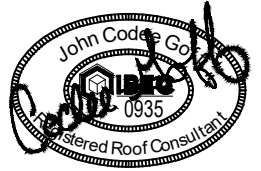
BUILDING M300 B1  
PHOTO # 11



BUILDING M300 B1  
PHOTO # 12

The **BUILDING ENVELOPE ENCLOSURE** Group

1226 YEAMANS HALL ROAD, STE C  
HANAHAN, SC 29410

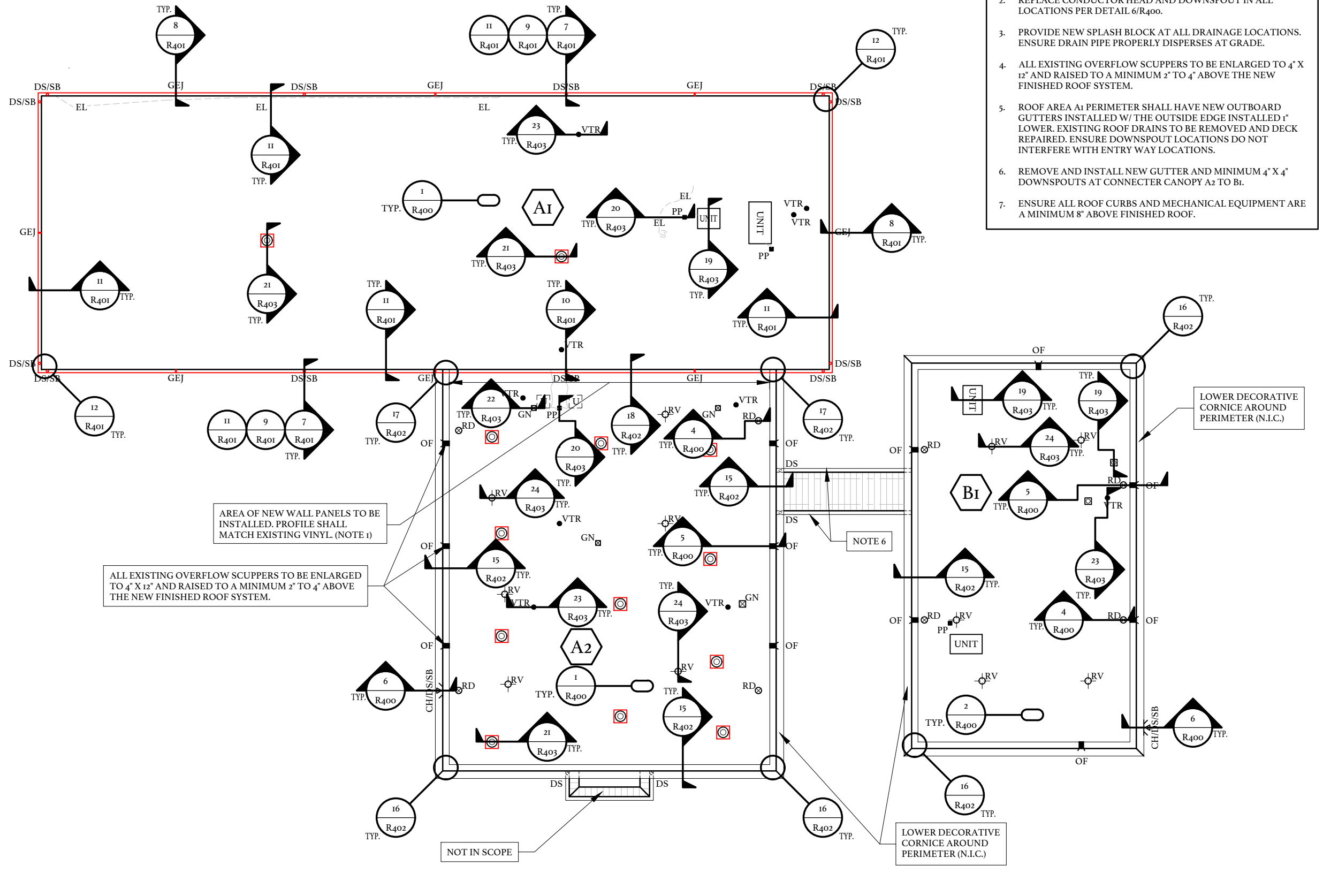


CENTRAL CAROLINA TECHNICAL COLLEGE  
**MAIN CAMPUS  
ROOF REPLACEMENT**  
OWNER PROJECT NUMBER: H59-6233-PD  
BEE PROJECT NUMBER: 22050  
SUMTER, SOUTH CAROLINA

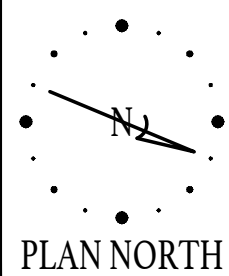
DATE:	02/09/2024
BEE PROJECT #:	22050
DESIGNED:	JCG
CHECKED:	JCG
DRAWN:	BSC
REVISION:	

**PHOTOGRAPH PLAN  
BUILDING M300 B  
AREA B1  
(BASE BID)**

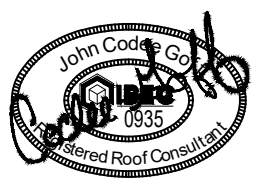
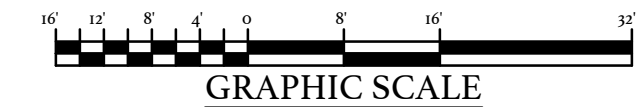
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- NOTES:**
1. REMOVE VINYL PANELS AT PERIMETER OF AREA A1 AND REPLACE WITH UNDERLAYMENT AND METAL PANELS FOR LENGTH OF AREA A2. OWNER TO CHOOSE COLOR. WALL PANELS SHALL COVER FULL HEIGHT IN THIS LOCATION.
  2. REPLACE CONDUCTOR HEAD AND DOWNSPOUT IN ALL LOCATIONS PER DETAIL 6/R400.
  3. PROVIDE NEW SPLASH BLOCK AT ALL DRAINAGE LOCATIONS. ENSURE DRAIN PIPE PROPERLY DISPERSES AT GRADE.
  4. ALL EXISTING OVERFLOW SCUPPERS TO BE ENLARGED TO 4" X 12" AND RAISED TO A MINIMUM 2" TO 4" ABOVE THE NEW FINISHED ROOF SYSTEM.
  5. ROOF AREA A1 PERIMETER SHALL HAVE NEW OUTBOARD GUTTERS INSTALLED W/ THE OUTSIDE EDGE INSTALLED 1" LOWER. EXISTING ROOF DRAINS TO BE REMOVED AND DECK REPAIRED. ENSURE DOWNSPOUT LOCATIONS DO NOT INTERFERE WITH ENTRY WAY LOCATIONS.
  6. REMOVE AND INSTALL NEW GUTTER AND MINIMUM 4" X 4" DOWNSPOUTS AT CONNECTOR CANOPY A2 TO B1.
  7. ENSURE ALL ROOF CURBS AND MECHANICAL EQUIPMENT ARE A MINIMUM 8" ABOVE FINISHED ROOF.



**NEW ROOF PLAN  
BUILDING M300 A-B (BASE BID)**



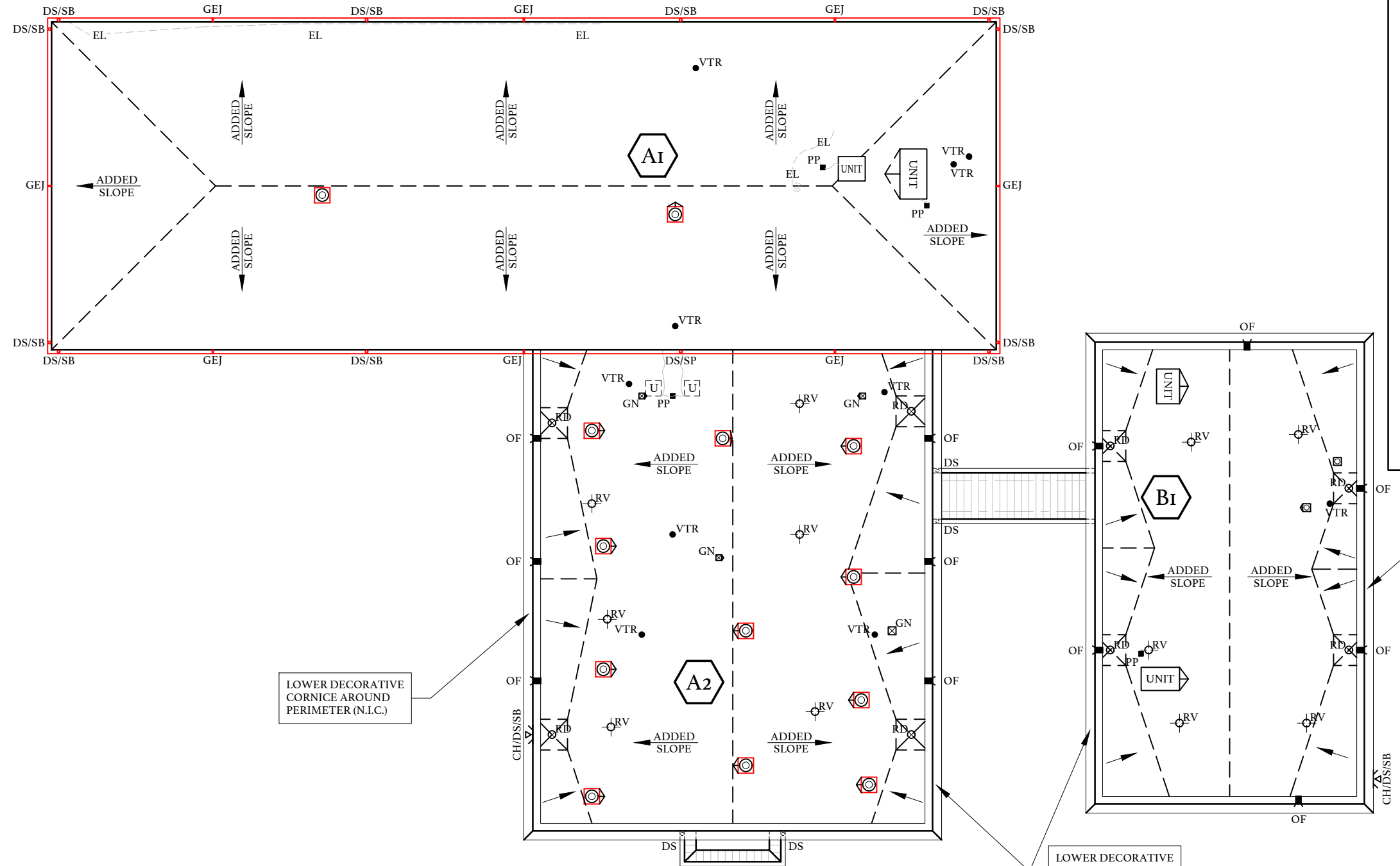
CENTRAL CAROLINA TECHNICAL COLLEGE  
**MAIN CAMPUS  
ROOF REPLACEMENT**  
OWNER PROJECT NUMBER: H59-0233-PD  
BEE PROJECT NUMBER: 22050  
SUMMER, SOUTH CAROLINA

DATE:	02/09/2024
BEE PROJECT #:	22050
DESIGNED:	JCG
CHECKED:	JCG
DRAWN:	BSC
REVISION:	

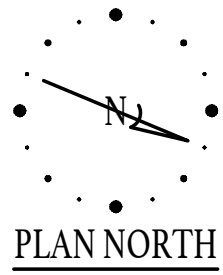
**NEW  
ROOF PLAN  
BUILDING M300 A-B  
(BASE BID)**



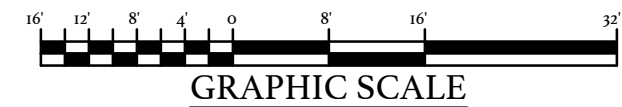
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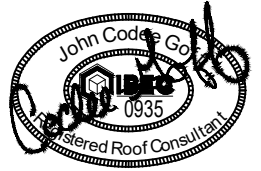
- ### TAPERED INSULATION NOTES
1. THE PRIMARY SLOPE IS IN THE EXISTING DECK, EXCEPT AS NOTED OTHERWISE WHERE 2x PRIMARY SLOPE SHALL BE PROVIDED.
    - A. ADDED TAPERED INSULATION FOR PRIMARY SLOPE SHALL BE 1/8 INCH PER FOOT FOR ALL ROOF AREAS, AND PROVIDE POSITIVE DRAINAGE.
  2. SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS) SHALL PROVIDE A MINIMUM AS SPECIFIED FOR ALL ROOF AREAS.
    - A. SECONDARY SLOPE SHALL BE 1/4" INCH PER FOOT, AND PROVIDE POSITIVE DRAINAGE.
  3. SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS) SHALL PROVIDE A FINISHED SLOPE OF NOT LESS THAN 1/4":1'.
  4. BACK SLOPES SHALL BE 2X THE PRIMARY SLOPE.
  5. INSULATION THICKNESSES SHALL BE COORDINATED WITH AND MATCH NAILER THICKNESSES AND ADJACENT INSULATION THICKNESSES WITHIN A 1/4" TOLERANCE IN ALL DIRECTIONS.
  6. ALL PENETRATIONS AND TERMINATIONS SHALL BE RAISED TO PROVIDE A MINIMUM 8" BASE FLASHING HEIGHT ABOVE THE FINISHED ROOF CONSIDERING TOTAL INSULATION HEIGHT INCLUDING TAPER.
    - A. PROVIDE AN ADDITIONAL TAPERED INSULATION OF 1/8 INCH PER FOOT FOR THE LAST FOUR (4) FEET LEADING TO THE EDGE METAL, AT A DRAINAGE CONDITION.
    - B. PROVIDE AN ADDED TAPERED EDGE STRIP OF 1/8 INCH PER FOOT AT ALL TERMINATIONS (WALLS, PARAPET WALLS, EXPANSION JOINTS, ETC.) AND ALL PENETRATIONS (CURBS, PIPES, SUPPORTS, ETC.).
    - C. PROVIDE A TAPERED CRICKET ON THE HIGH SIDE OF ALL NON-ROUND PENETRATIONS WIDER THAN 24".
  7. 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.
    - A. TAPERED SUMPS SHALL BE 4' X 4', UNLESS AN OVERSIZED TAPERED SUMP IS NOTED ON THE TAPERED ROOF PLANS.
    - B. DRAINS SHALL BE RAISED/SET BASED ON TAPERED INSULATION THICKNESSES.



**TAPER ROOF PLAN  
BUILDING M300 A-B (BASE BID)**



1226 YEAMANS HALL ROAD, STE C  
HANAHAN, SC 29410



CENTRAL CAROLINA TECHNICAL COLLEGE

**MAIN CAMPUS  
ROOF REPLACEMENT**

OWNER PROJECT NUMBER: H59-6233-PD  
BEE PROJECT NUMBER: 22050

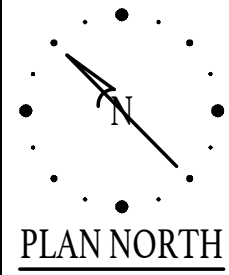
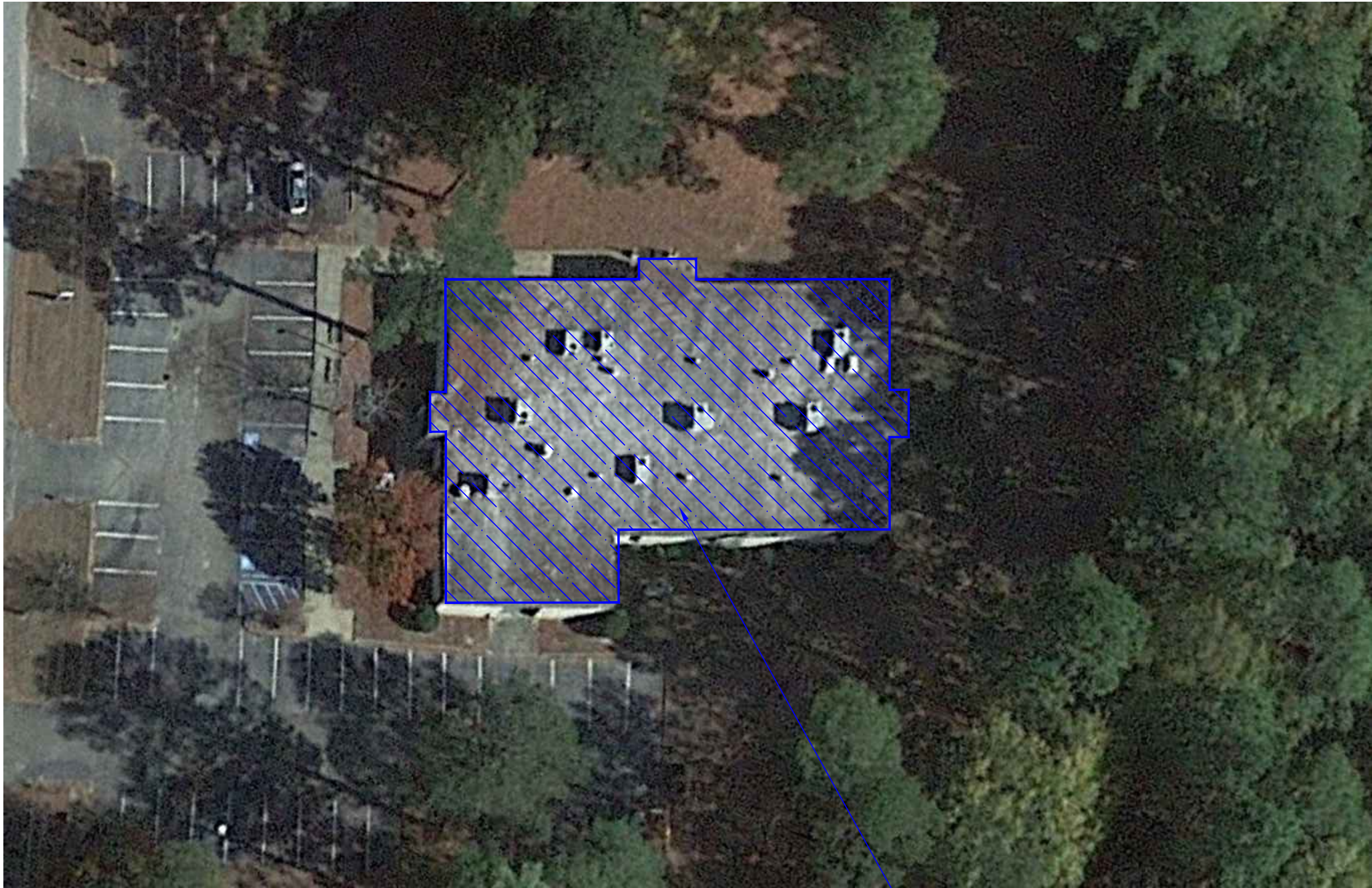
SUMTER, SOUTH CAROLINA

DATE:	02/09/2024
BEE PROJECT #:	22050
DESIGNED:	JCG
CHECKED:	JCG
DRAWN:	BSC
REVISION:	

**TAPER  
ROOF PLAN  
BUILDING M300 A-B  
(BASE BID)**

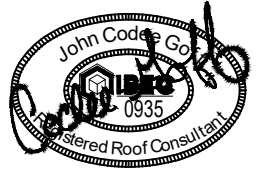
R108

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AERIAL PLAN  
BUILDING M700 (ALT. #1)

ALTERNATE #1  
- BUILDING M700 ROOF REPLACEMENT



CENTRAL CAROLINA TECHNICAL COLLEGE  
MAIN CAMPUS  
ROOF REPLACEMENT

OWNER PROJECT NUMBER: H59-6233-PD  
BEE PROJECT NUMBER: 22050

SUMTER, SOUTH CAROLINA

DATE:	02/09/2024
BEE PROJECT #:	22050
DESIGNED:	JCG
CHECKED:	JCG
DRAWN:	BSC
REVISION:	

AERIAL PLAN  
BUILDING M700  
(ALT. #1)

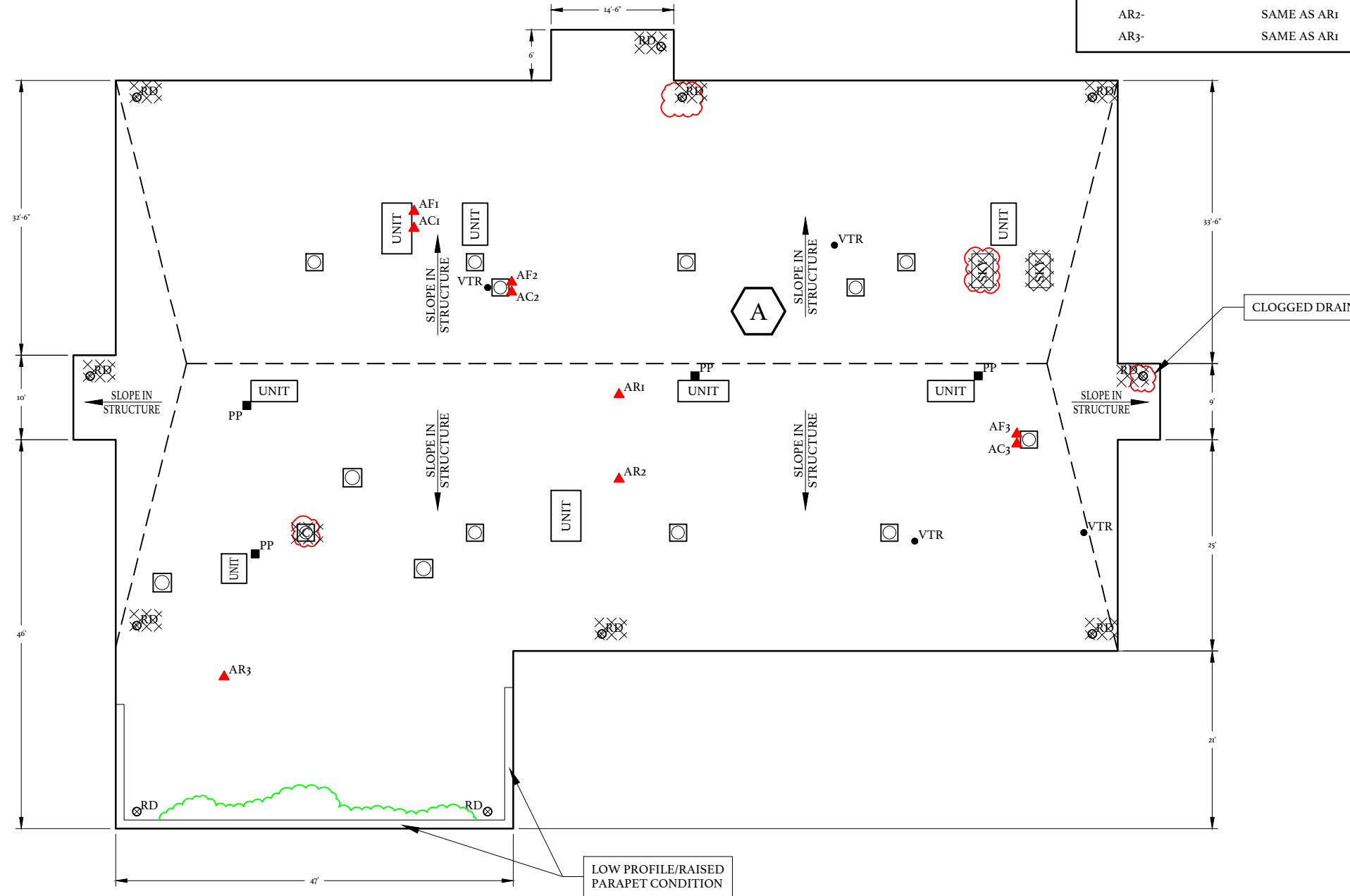
R200

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### CORE SAMPLE SUMMARY

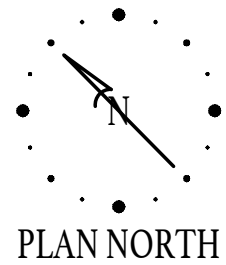
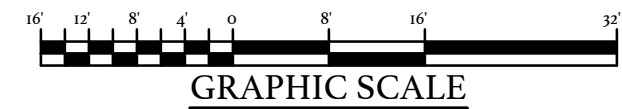
- A. CORE SAMPLE SUMMARIES ARE PROVIDED AS GENERAL INFORMATION ONLY. IT IS THE CONTRACTORS' SOLE RESPONSIBILITY TO COLLECT THE NECESSARY FIELD DATA TO PREPARE THEIR BID.
- B. LOCATIONS OF THESE CORES ARE SHOWN ON THE EXISTING ROOF PLAN.

ITEM	DESCRIPTION
AR1-	GRAVEL SURFACED BUILT UP ROOF PERLITE - 1/2" POLYISOCYANURATE - 1 1/2" STEEL DECK TOTAL THICKNESS= 2 1/2"
AR2-	SAME AS AR1
AR3-	SAME AS AR1

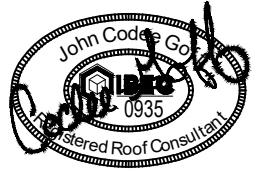


LEGEND	
	HATCH FOR DEMOLITION
	APPROXIMATE LEAK/DEFICIENCY LOCATION
	APPROXIMATE AREA OF PONDING

**EXISTING ROOF PLAN  
BUILDING M700 (ALT. #1)**



1226 YEAMANS HALL ROAD, STE C  
HANAHAN, SC 29410



CENTRAL CAROLINA TECHNICAL COLLEGE

**MAIN CAMPUS  
ROOF REPLACEMENT**

OWNER PROJECT NUMBER: H59-6233-PD  
BEE PROJECT NUMBER: 22050

SUMTER, SOUTH CAROLINA

DATE:	02/09/2024
BEE PROJECT #:	22050
DESIGNED:	JCG
CHECKED:	JCG
DRAWN:	BSC
REVISION:	

**EXISTING  
ROOF PLAN  
BUILDING M700  
(ALT. #1)**

R201

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BUILDING M700  
PHOTO # 1



BUILDING M700  
PHOTO # 2



BUILDING M700  
PHOTO # 3



BUILDING M700  
PHOTO # 4



BUILDING M700  
PHOTO # 5



BUILDING M700  
PHOTO # 6



BUILDING M700  
PHOTO # 7



BUILDING M700  
PHOTO # 8



BUILDING M700  
PHOTO # 9



BUILDING M700  
PHOTO # 10



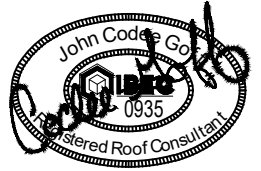
BUILDING M700  
PHOTO # 11



BUILDING M700  
PHOTO # 12

The **BUILDING ENVELOPE ENCLOSURE** Group

1226 YEAMANS HALL ROAD, STE C  
HANAHAN, SC 29410

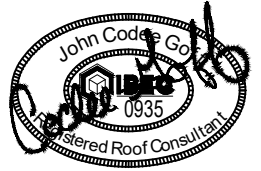


CENTRAL CAROLINA TECHNICAL COLLEGE  
**MAIN CAMPUS  
ROOF REPLACEMENT**  
OWNER PROJECT NUMBER: H59-6233-PD  
BEE PROJECT NUMBER: 22050  
SUMNER, SOUTH CAROLINA

DATE:	02/09/2024
BEE PROJECT #:	22050
DESIGNED:	JCG
CHECKED:	JCG
DRAWN:	BSC
REVISION:	

**PHOTOGRAPH  
PLAN  
BUILDING M700  
(ALT. #1)**

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CENTRAL CAROLINA TECHNICAL COLLEGE

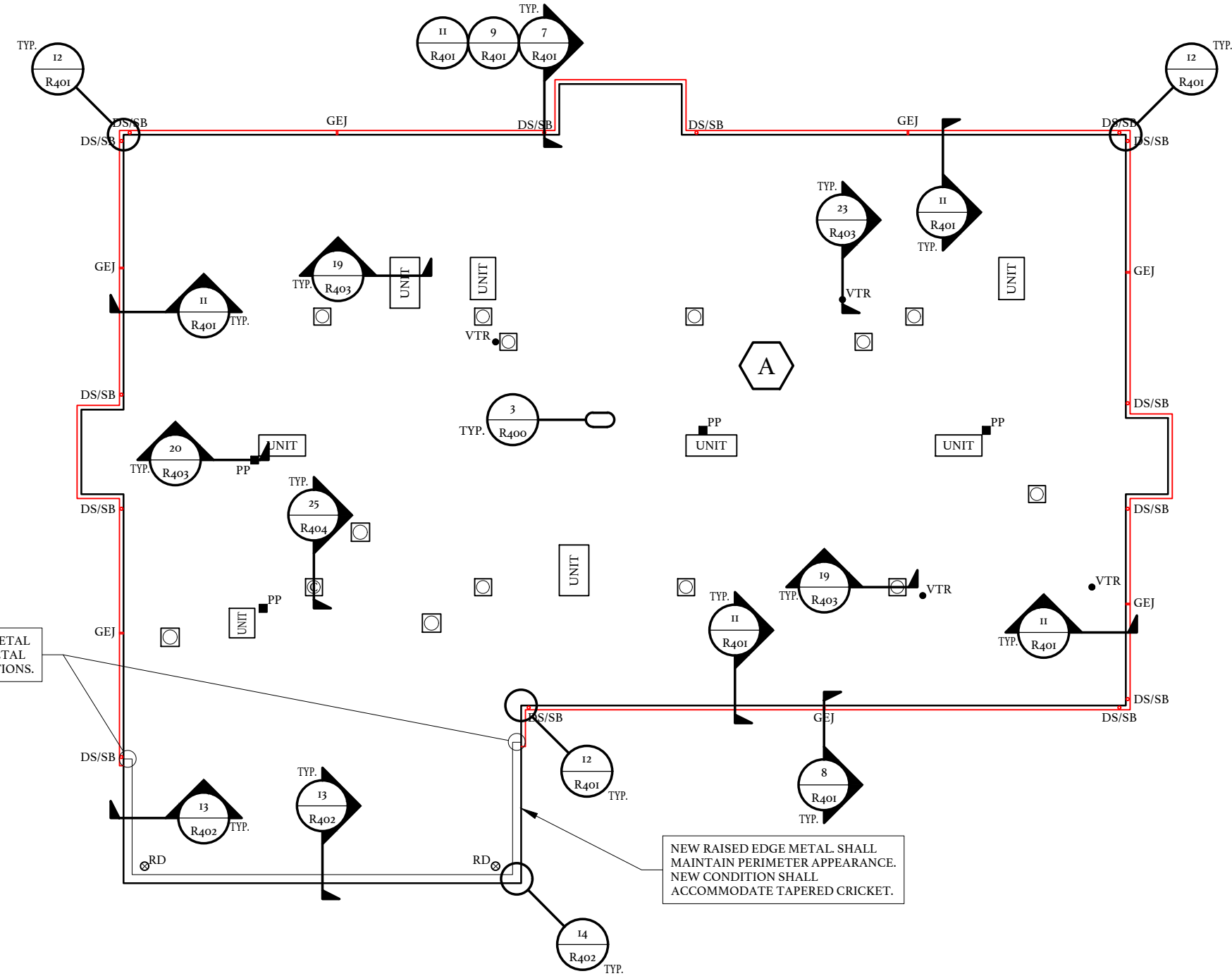
**MAIN CAMPUS  
ROOF REPLACEMENT**

OWNER PROJECT NUMBER: H59-6233-PD  
BEE PROJECT NUMBER: 22050

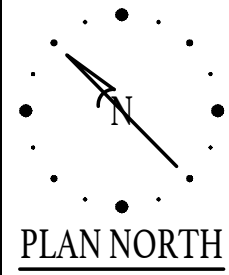
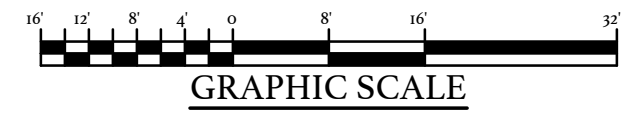
SUMTER, SOUTH CAROLINA

DATE:	02/09/2024
BEE PROJECT #:	22050
DESIGNED:	JCG
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REVISION:	

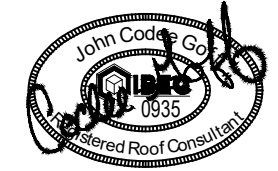
**NEW  
ROOF PLAN  
BUILDING M700  
(ALT. #1)**



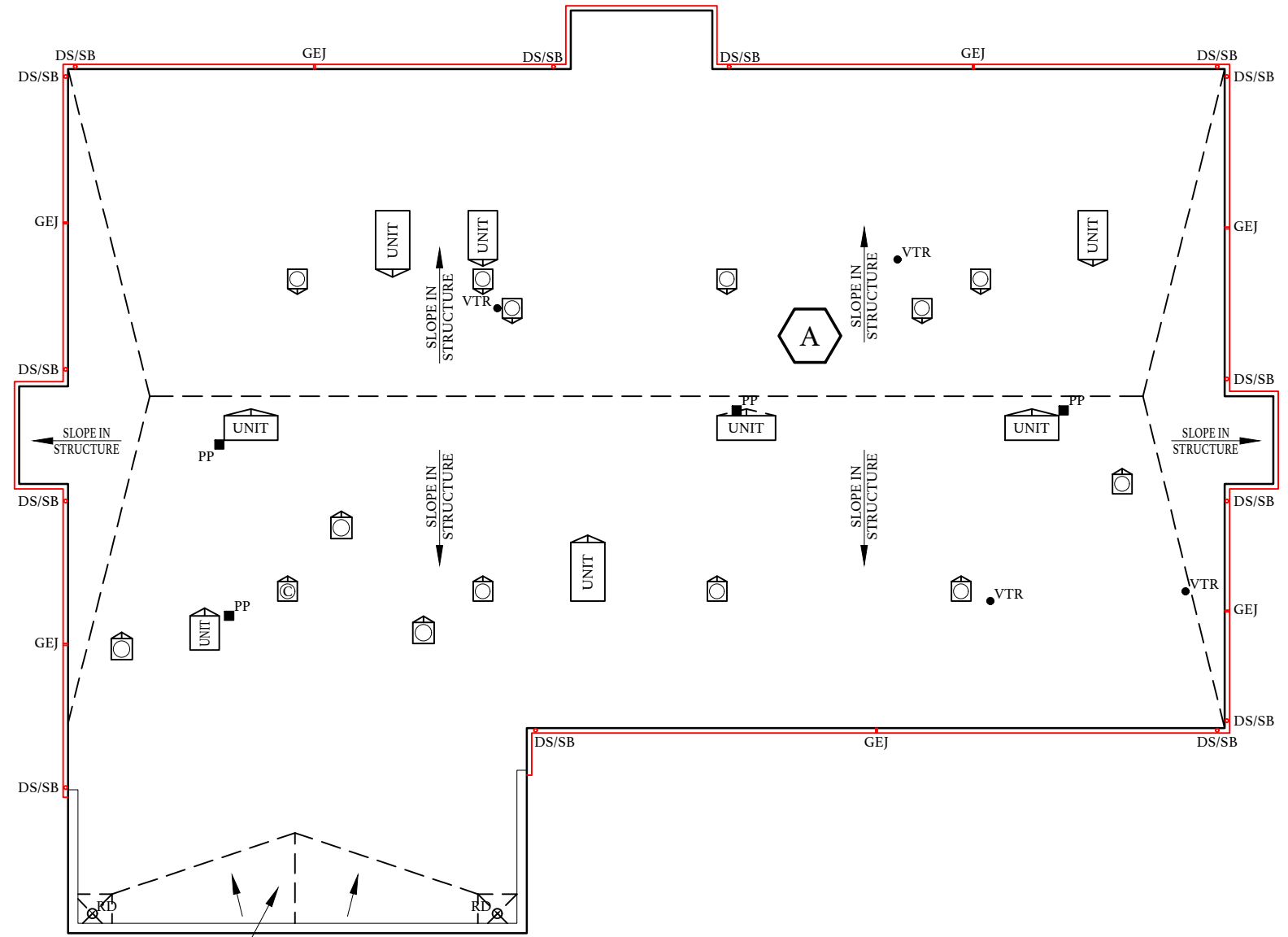
**NEW ROOF PLAN  
BUILDING M700 (ALT. #1)**



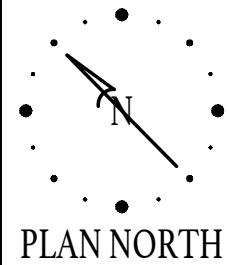
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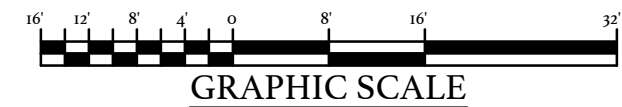
- ### TAPERED INSULATION NOTES
- THE PRIMARY SLOPE IS IN THE EXISTING DECK.
  - SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS) SHALL PROVIDE A MINIMUM AS SPECIFIED FOR ALL ROOF AREAS.
    - SECONDARY SLOPE SHALL BE 1/4" INCH PER FOOT, AND PROVIDE POSITIVE DRAINAGE.
  - SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS) SHALL PROVIDE A FINISHED SLOPE OF NOT LESS THAN 1/4":1'.
  - BACK SLOPES SHALL BE 2X THE PRIMARY SLOPE.
  - INSULATION THICKNESSES SHALL BE COORDINATED WITH AND MATCH NAILER THICKNESSES AND ADJACENT INSULATION THICKNESSES WITHIN A 1/4" TOLERANCE IN ALL DIRECTIONS.
  - ALL PENETRATIONS AND TERMINATIONS SHALL BE RAISED TO PROVIDE A MINIMUM 8" BASE FLASHING HEIGHT ABOVE THE FINISHED ROOF CONSIDERING TOTAL INSULATION HEIGHT INCLUDING TAPER.
    - PROVIDE AN ADDITIONAL TAPERED INSULATION OF 1/8 INCH PER FOOT FOR THE LAST FOUR (4) FEET LEADING TO THE EDGE METAL, AT A DRAINAGE CONDITION.
    - PROVIDE AN ADDED TAPERED EDGE STRIP OF 1/8 INCH PER FOOT AT ALL TERMINATIONS (WALLS, PARAPET WALLS, EXPANSION JOINTS, ETC.) AND ALL PENETRATIONS (CURBS, PIPES, SUPPORTS, ETC.).
    - PROVIDE A TAPERED CRICKET ON THE HIGH SIDE OF ALL NON-ROUND PENETRATIONS WIDER THAN 24".
  - 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.
    - TAPERED SUMPS SHALL BE 4" X 4", UNLESS AN OVERSIZED TAPERED SUMP IS NOTED ON THE TAPERED ROOF PLANS.
    - DRAINS SHALL BE RAISED/SET BASED ON TAPERED INSULATION THICKNESSES.



PROVIDE TAPERED CRICKET WITH PERLITE INSULATION. RAISED EDGE METAL CONDITION IS TO MAINTAIN BUILDING EDGE PROFILE.



**TAPER ROOF PLAN  
BUILDING M700 (ALT. #1)**



CENTRAL CAROLINA TECHNICAL COLLEGE  
**MAIN CAMPUS  
ROOF REPLACEMENT**

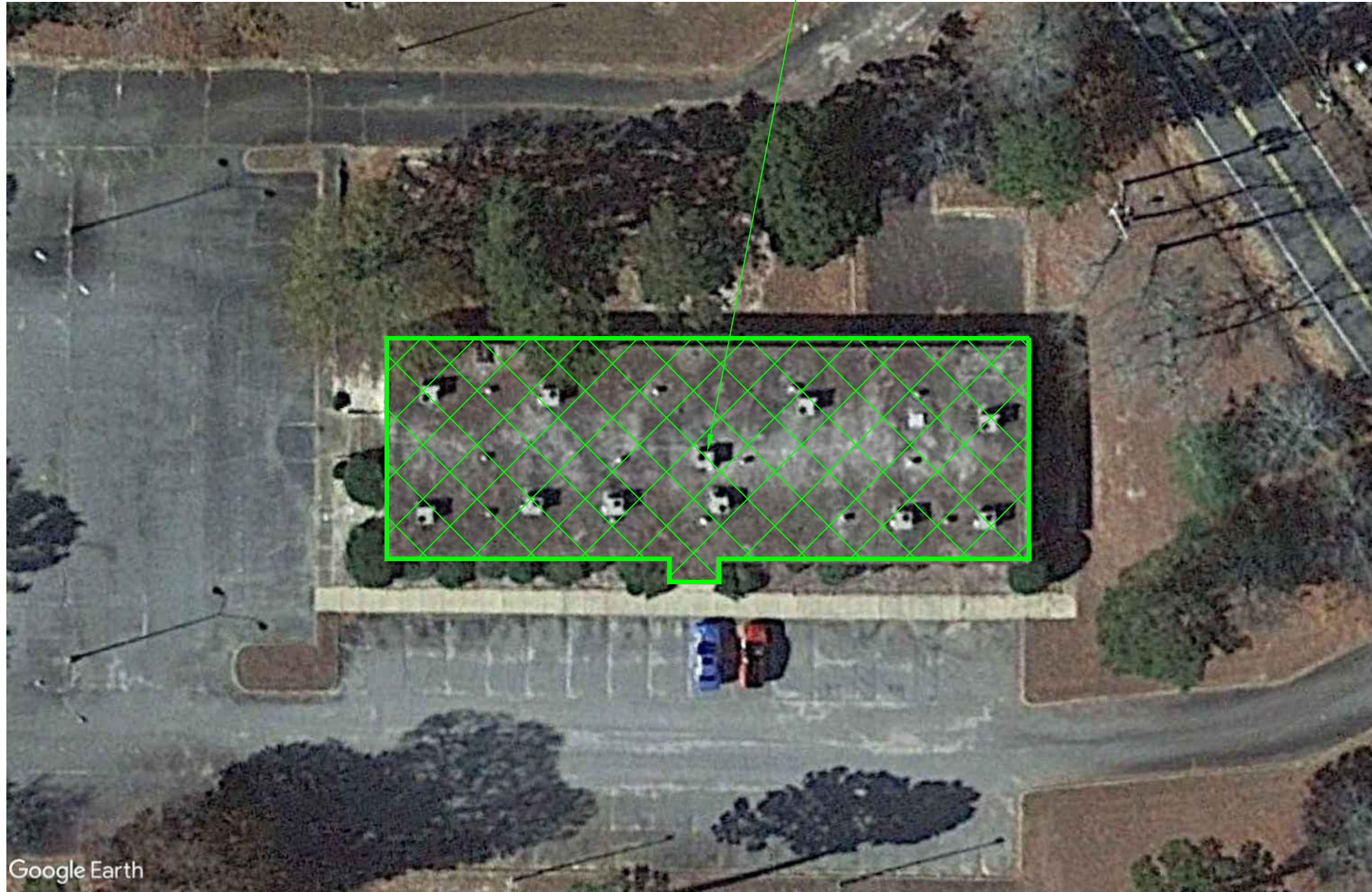
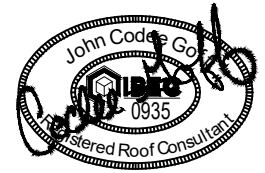
OWNER PROJECT NUMBER: H59-0233-PD  
BEE PROJECT NUMBER: 22050

SUMTER, SOUTH CAROLINA

DATE:	02/09/2024
BEE PROJECT #:	22050
DESIGNED:	JCG
CHECKED:	JCG
DRAWN:	BSC
REVISION:	

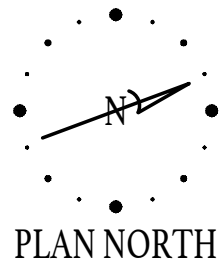
**TAPER  
ROOF PLAN  
BUILDING M700  
(ALT. #1)**

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**ALTERNATE #2**  
ROOF REPLACEMENT BUILDING S900 ROOF AREA A

Google Earth



**AERIAL PLAN**  
**BUILDING S900 (ALT. #2)**

CENTRAL CAROLINA TECHNICAL COLLEGE  
**MAIN CAMPUS**  
**ROOF REPLACEMENT**

OWNER PROJECT NUMBER: H59-6233-PD  
BEE PROJECT NUMBER: 22050

SUMTER, SOUTH CAROLINA

DATE:	02/09/2024
BEE PROJECT #:	22050
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CHECKED:	JCG
DRAWN:	BSC
REVISION:	

**AERIAL PLAN**  
**BUILDING S900**  
**(ALT. #2)**

R300

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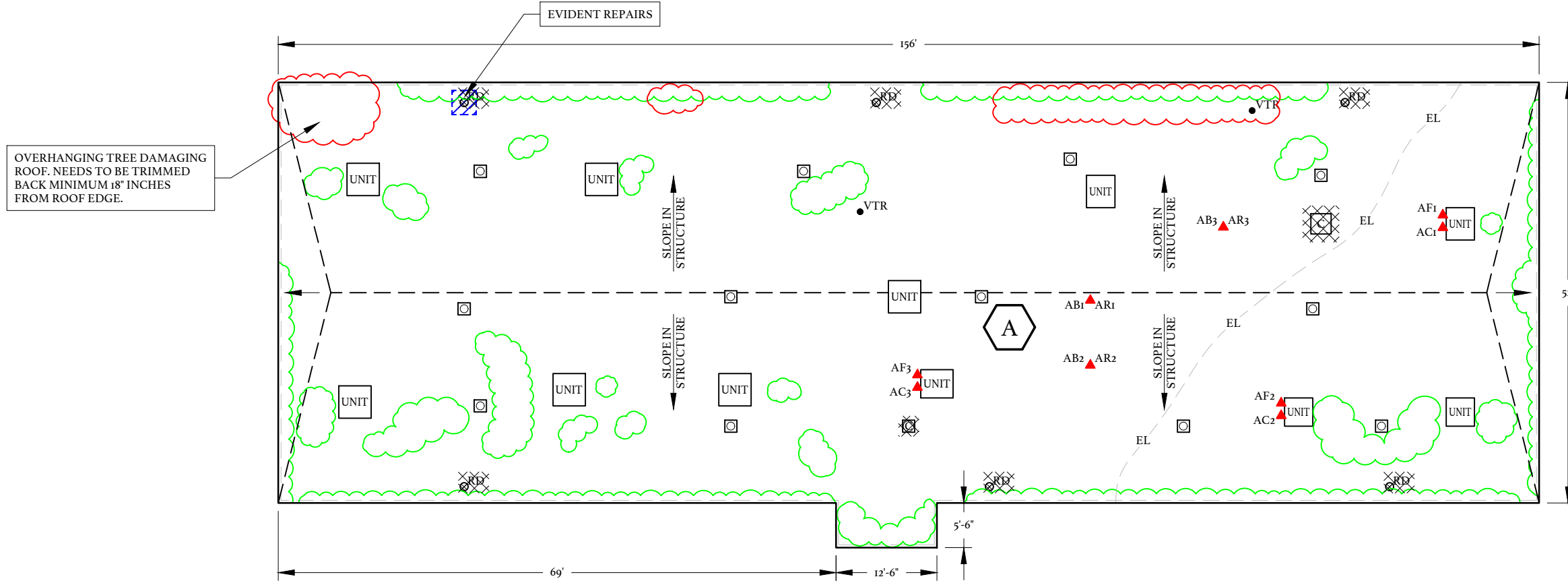
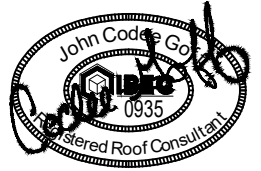
### CORE SAMPLE SUMMARY

- 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
AR1-	GRAVEL SURFACED BUILT UP ROOF PERLITE - 1/2" BASE SHEET RED ROSIN PAPER LWIC/GYPSUM - 4" METAL FORM TOTAL THICKNESS= 4 3/4"
AR2-	SAME AS AR1
AR3-	SAME AS AR1



1226 YEAMANS HALL ROAD, STE C  
HANAHAN, SC 29410

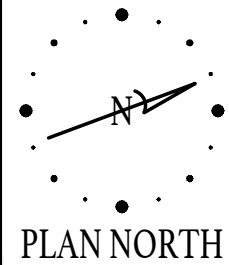
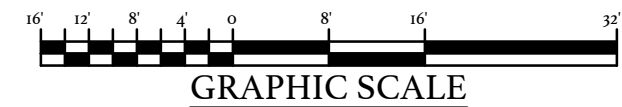


OVERHANGING TREE DAMAGING ROOF. NEEDS TO BE TRIMMED BACK MINIMUM 18" INCHES FROM ROOF EDGE.

EVIDENT REPAIRS

LEGEND	
	HATCH FOR DEMOLITION
	APPROXIMATE AREA OF REPAIR/COATING
	APPROXIMATE LEAK/DEFICIENCY LOCATION
	APPROXIMATE AREA OF PONDING

EXISTING ROOF PLAN  
BUILDING S900 (ALT. #2)



CENTRAL CAROLINA TECHNICAL COLLEGE  
MAIN CAMPUS  
ROOF REPLACEMENT

OWNER PROJECT NUMBER: H59-0233-PD  
BEE PROJECT NUMBER: 22050

SUMTER, SOUTH CAROLINA

DATE:	02/09/2024
BEE PROJECT #:	22050
DESIGNED:	JCG
CHECKED:	JCG
DRAWN:	BSC
REVISION:	

EXISTING ROOF PLAN  
BUILDING S900  
(ALT. #2)



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BUILDING S900  
PHOTO # 1



BUILDING S900  
PHOTO # 2



BUILDING S900  
PHOTO # 3



BUILDING S900  
PHOTO # 4



BUILDING S900  
PHOTO # 5



BUILDING S900  
PHOTO # 6



BUILDING S900  
PHOTO # 7



BUILDING S900  
PHOTO # 8



BUILDING S900  
PHOTO # 9



BUILDING S900  
PHOTO # 10



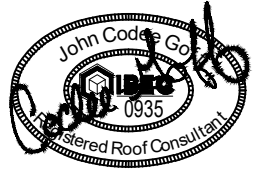
BUILDING S900  
PHOTO # 11



BUILDING S900  
PHOTO # 12

The  
**BUILDING  
ENVELOPE  
ENCLOSURE**  
Group

1226 YEAMANS HALL ROAD, STE C  
HANAHAN, SC 29410

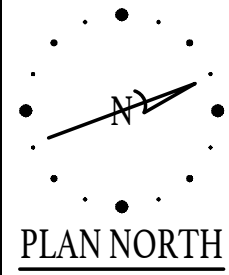
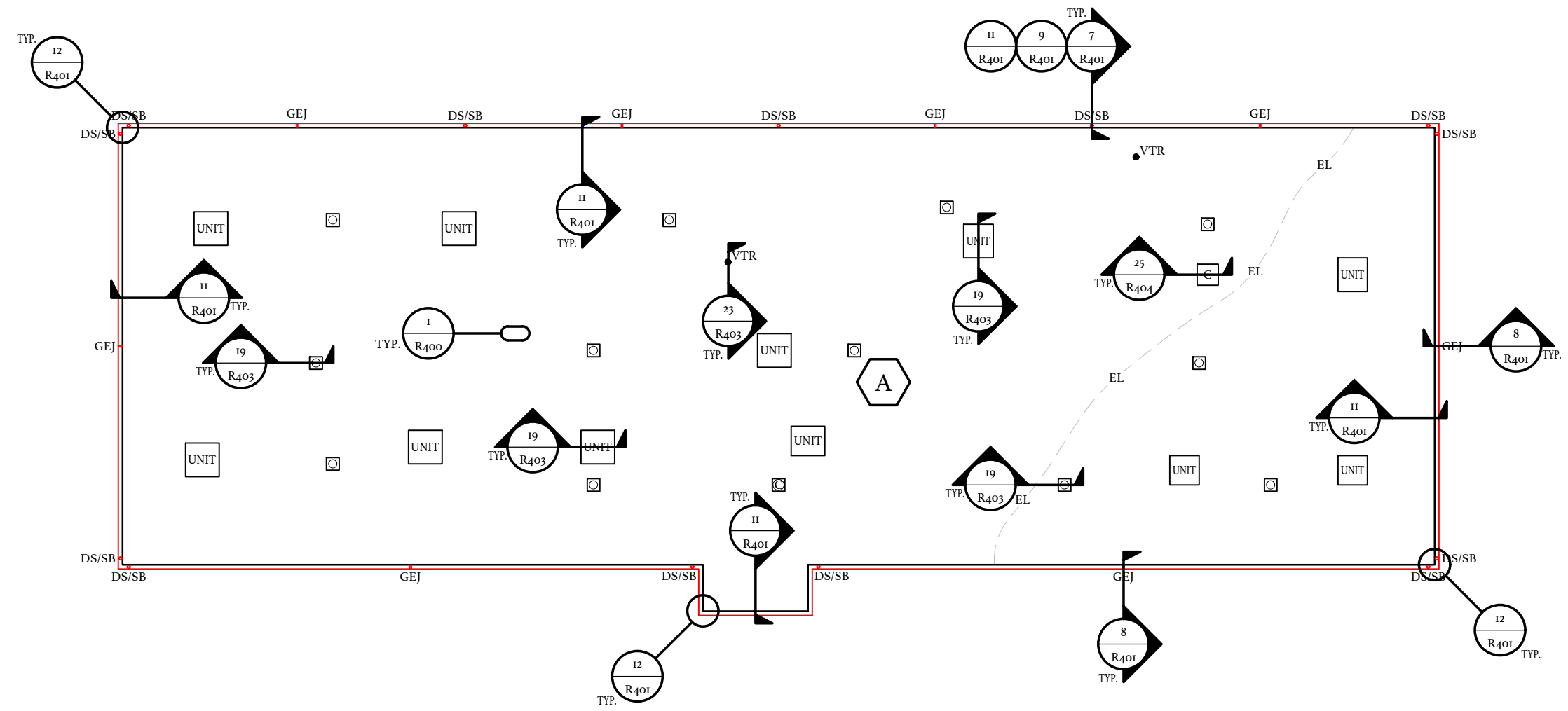
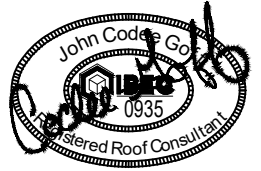


CENTRAL CAROLINA TECHNICAL COLLEGE  
**MAIN CAMPUS  
ROOF REPLACEMENT**  
OWNER PROJECT NUMBER: H59-6233-PD  
BEE PROJECT NUMBER: 22050  
SUMMER, SOUTH CAROLINA

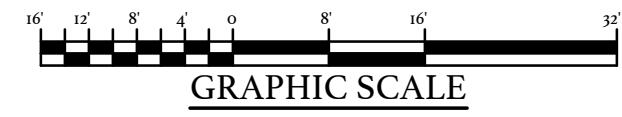
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BEE PROJECT #:	22050
DESIGNED:	JCG
CHECKED:	JCG
DRAWN:	BSC
REVISION:	

**PHOTOGRAPH  
PLAN  
BUILDING S900  
(ALT. #2)**

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**NEW ROOF PLAN  
BUILDING S900 (ALT. #2)**



CENTRAL CAROLINA TECHNICAL COLLEGE  
**MAIN CAMPUS  
ROOF REPLACEMENT**  
OWNER PROJECT NUMBER: H59-6233-PD  
BEE PROJECT NUMBER: 22050  
SUMMER, SOUTH CAROLINA

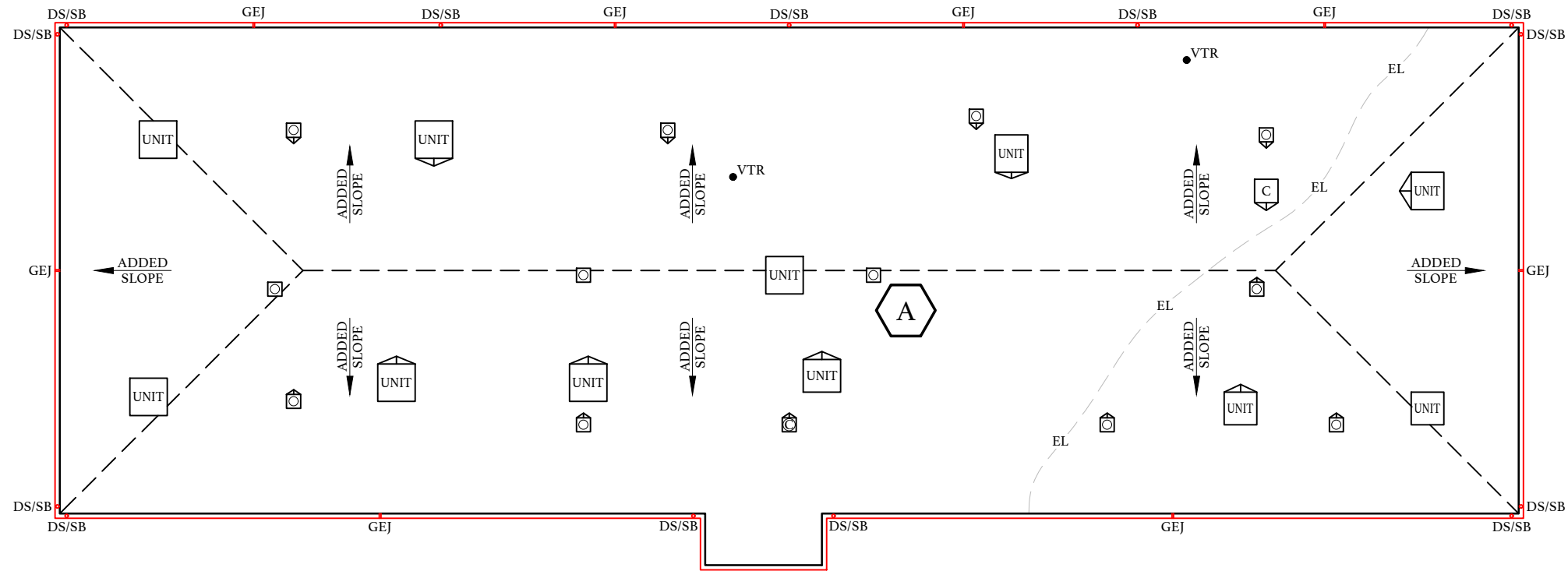
DATE:	02/09/2024
BEE PROJECT #:	22050
DESIGNED:	JCG
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REVISION:	

**NEW  
ROOF PLAN  
BUILDING S900  
(ALT. #2)**

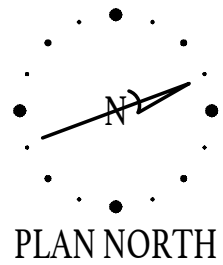
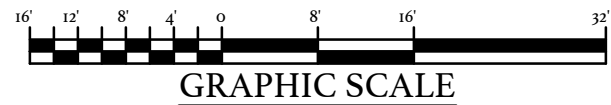
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### TAPERED INSULATION NOTES

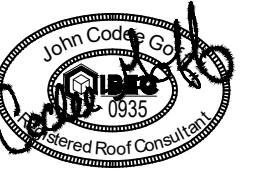
1. THE PRIMARY SLOPE IS IN THE EXISTING DECK.
  - A. ADDED TAPERED INSULATION FOR PRIMARY SLOPE SHALL BE  $\frac{1}{8}$  INCH PER FOOT, AND PROVIDE POSITIVE DRAINAGE.
2. SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS) SHALL PROVIDE A MINIMUM AS SPECIFIED FOR ALL ROOF AREAS.
  - A. SECONDARY SLOPE SHALL BE  $\frac{1}{4}$ " INCH PER FOOT, AND PROVIDE POSITIVE DRAINAGE.
3. SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS) SHALL PROVIDE A FINISHED SLOPE OF NOT LESS THAN  $\frac{1}{4}$ " : 1".
4. BACK SLOPES SHALL BE 2X THE PRIMARY SLOPE.
5. INSULATION THICKNESSES SHALL BE COORDINATED WITH AND MATCH NAILER THICKNESSES AND ADJACENT INSULATION THICKNESSES WITHIN A  $\frac{1}{4}$ " TOLERANCE IN ALL DIRECTIONS.
6. ALL PENETRATIONS AND TERMINATIONS SHALL BE RAISED TO PROVIDE A MINIMUM 8" BASE FLASHING HEIGHT ABOVE THE FINISHED ROOF CONSIDERING TOTAL INSULATION HEIGHT INCLUDING TAPER.
  - A. PROVIDE AN ADDITIONAL TAPERED INSULATION OF  $\frac{1}{8}$  INCH PER FOOT FOR THE LAST FOUR (4) FEET LEADING TO THE EDGE METAL, AT A DRAINAGE CONDITION.
  - B. PROVIDE AN ADDED TAPERED EDGE STRIP OF  $\frac{1}{8}$  INCH PER FOOT AT ALL TERMINATIONS (WALLS, PARAPET WALLS, EXPANSION JOINTS, ETC.) AND ALL PENETRATIONS (CURBS, PIPES, SUPPORTS, ETC.).
  - C. PROVIDE A TAPERED CRICKET ON THE HIGH SIDE OF ALL NON-ROUND PENETRATIONS WIDER THAN 24".



**TAPER ROOF PLAN  
BUILDING S900 (ALT. #2)**



1226 YEAMANS HALL ROAD, STE C  
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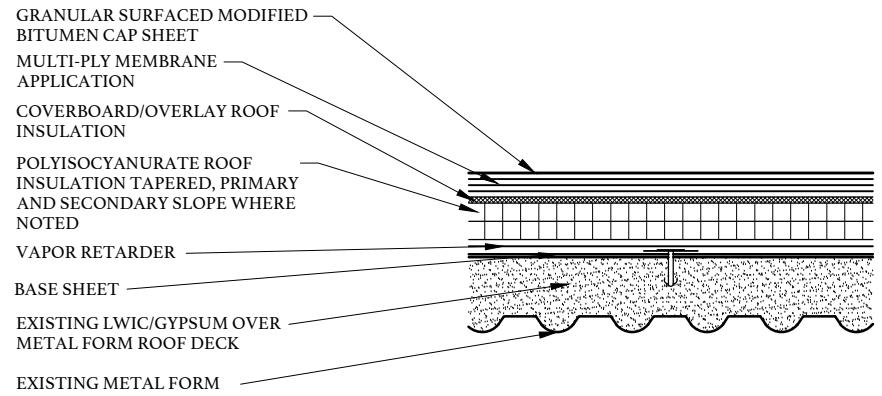


CENTRAL CAROLINA TECHNICAL COLLEGE  
**MAIN CAMPUS  
ROOF REPLACEMENT**  
OWNER PROJECT NUMBER: H59-0233-PD  
BEE PROJECT NUMBER: 22050  
SUMNER, SOUTH CAROLINA

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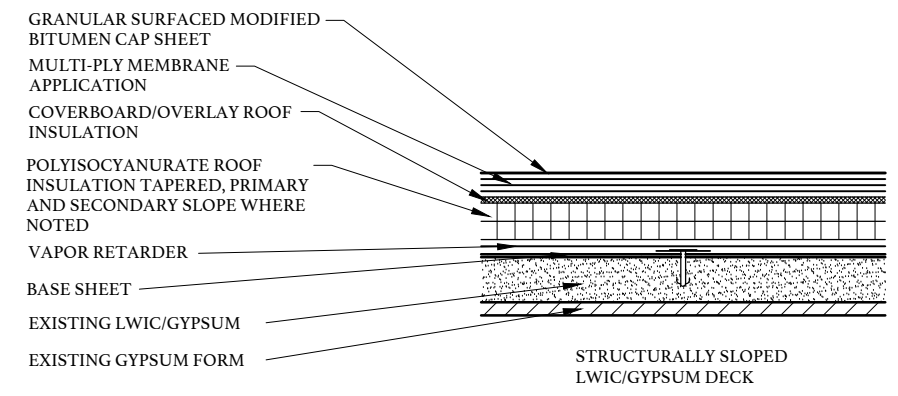
**TAPER  
ROOF PLAN  
BUILDING S900  
(ALT. #2)**

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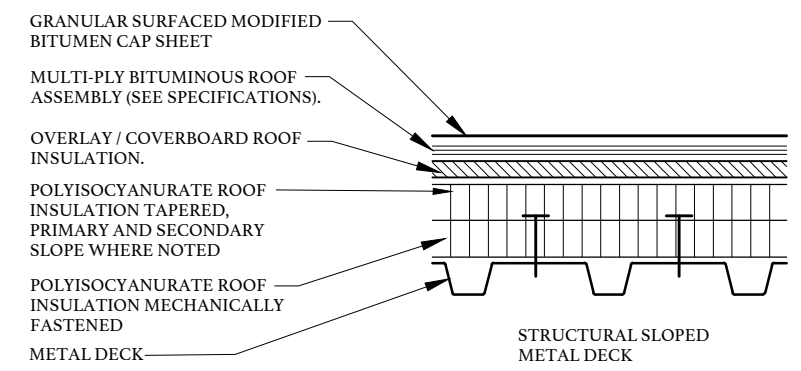
- NOTES:**
- BUILDING M300A AREAS A1 & A2.
  - BUILDING S900.

**1** **MODIFIED BITUMEN ROOF ASSEMBLY**  
R400 NOT TO SCALE (TYPICAL)



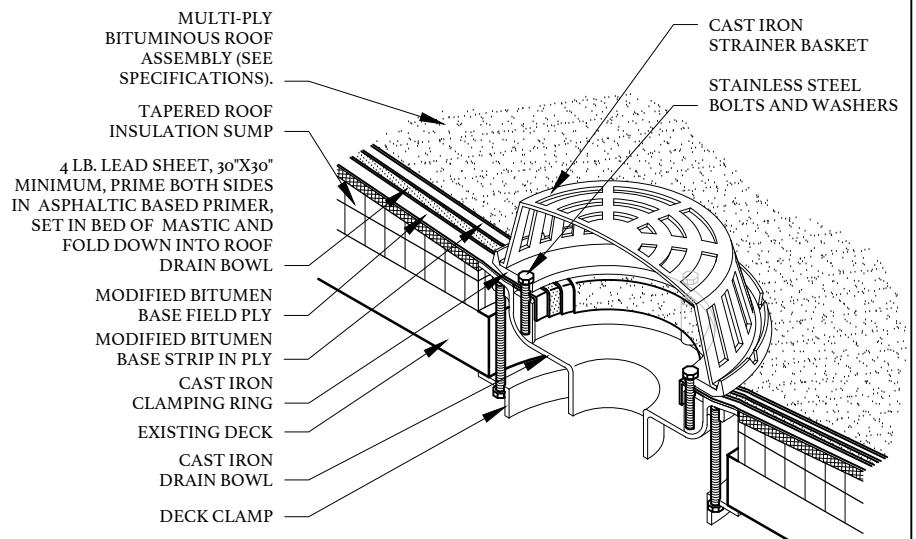
- NOTES:**
- SEE SPECIFICATIONS FOR INSULATION ASSEMBLY AND ROOF SYSTEM
  - BUILDING M300B AREA B1.

**2** **MODIFIED BITUMEN ROOF ASSEMBLY**  
R400 NOT TO SCALE (TYPICAL)



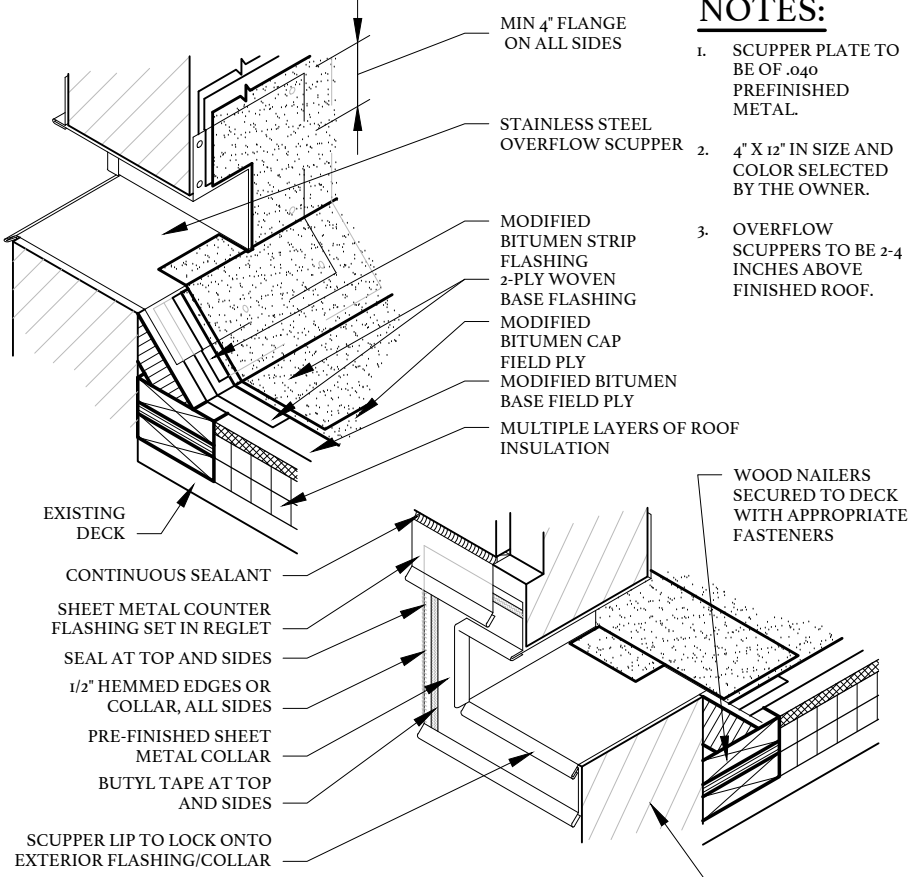
- NOTES:**
- SEE SPECIFICATIONS FOR INSULATION ASSEMBLY AND ROOF SYSTEM
  - BUILDING M700.

**3** **MODIFIED BITUMEN ROOF ASSEMBLY**  
R400 NOT TO SCALE (TYPICAL)



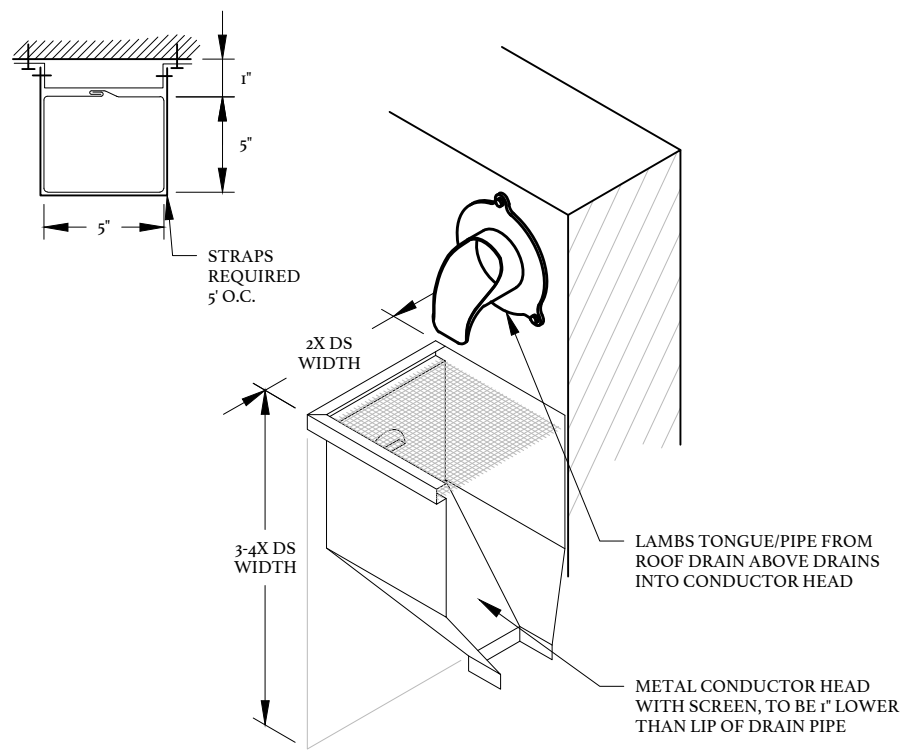
- NOTES:**
- DRAIN HEIGHT SHALL BE BASED UPON INSULATION THICKNESS REQUIREMENT AND SHALL BE ACCOMPLISHED BY SINGLE COMPONENT BOWL, EXTENSION BOWL, OR STATIC EXTENDER.

**4** **ROOF DRAIN**  
R400 NOT TO SCALE (TYPICAL)

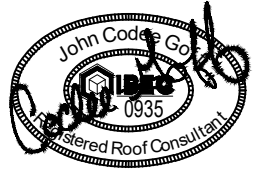


- NOTES:**
- SCUPPER PLATE TO BE OF .040 PREFINISHED METAL.
  - 4" X 12" IN SIZE AND COLOR SELECTED BY THE OWNER.
  - OVERFLOW SCUPPERS TO BE 2-4 INCHES ABOVE FINISHED ROOF.

**5** **OVERFLOW SCUPPER**  
R400 NOT TO SCALE (TYPICAL)



**6** **DRAIN PIPE WITH CONDUCTOR HEAD**  
R400 NOT TO SCALE (TYPICAL)

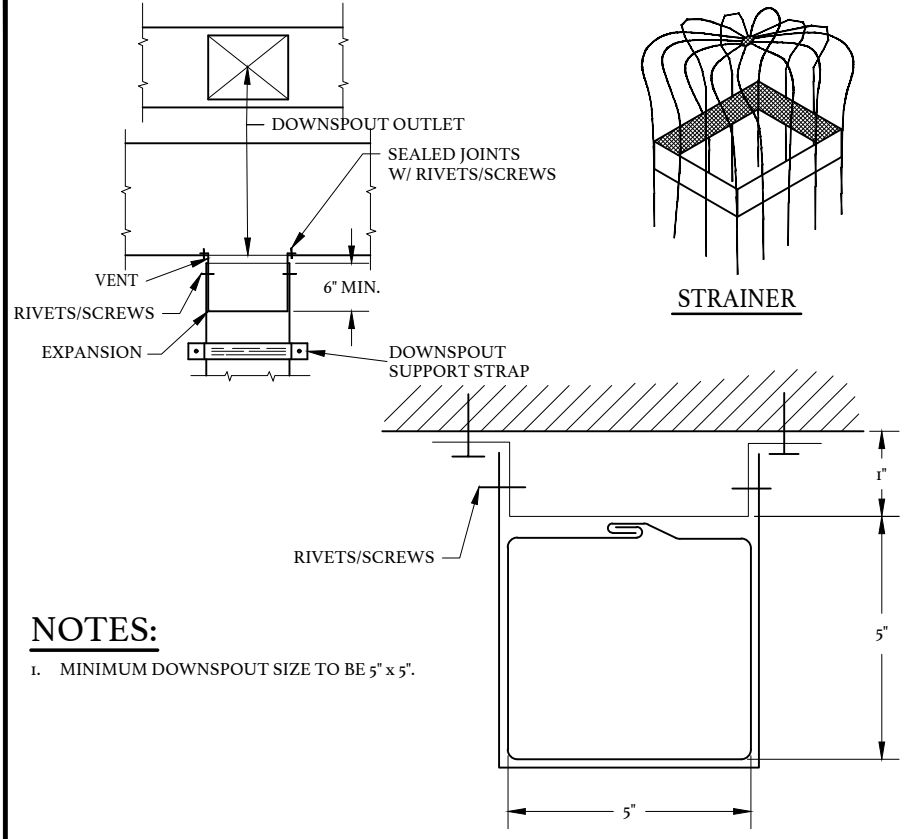


CENTRAL CAROLINA TECHNICAL COLLEGE  
**MAIN CAMPUS  
ROOF REPLACEMENT**  
OWNER PROJECT NUMBER: H59-6233-PD  
BEE PROJECT NUMBER: 22050  
SUMNER, SOUTH CAROLINA

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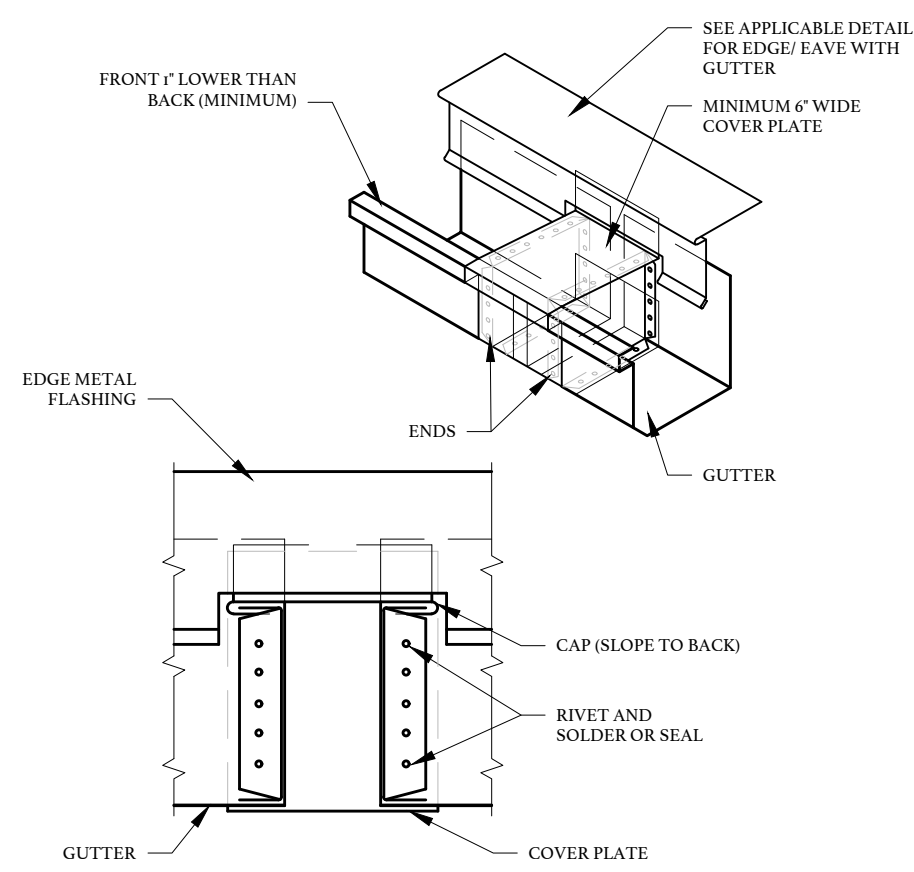
**DETAILS / SECTIONS**

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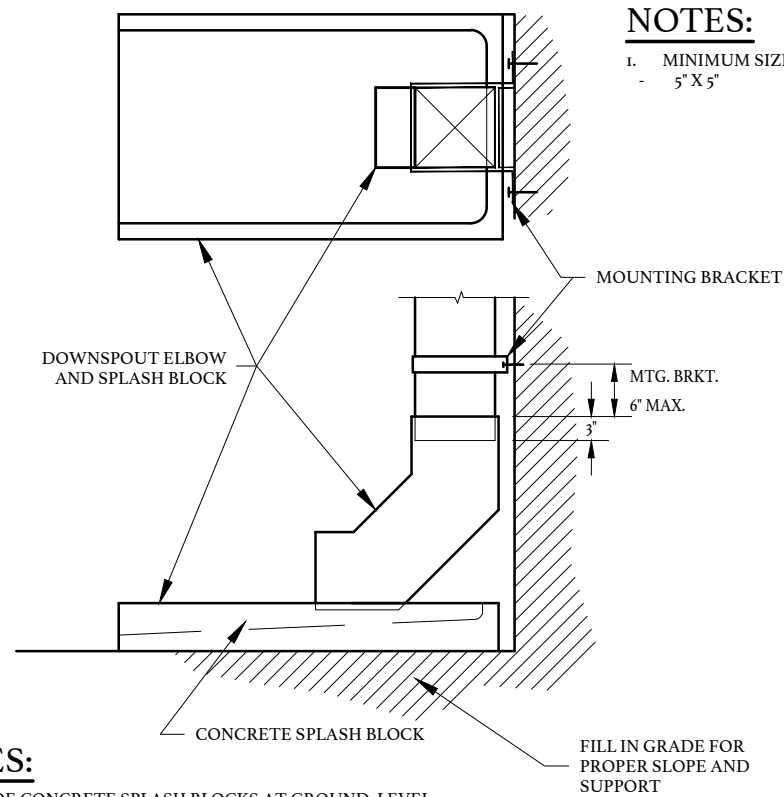


**NOTES:**  
1. MINIMUM DOWNSPOUT SIZE TO BE 5" x 5".

**7**  
R401 NOT TO SCALE (TYPICAL)  
**GUTTER DOWNSPOUT CONNECTIONS**



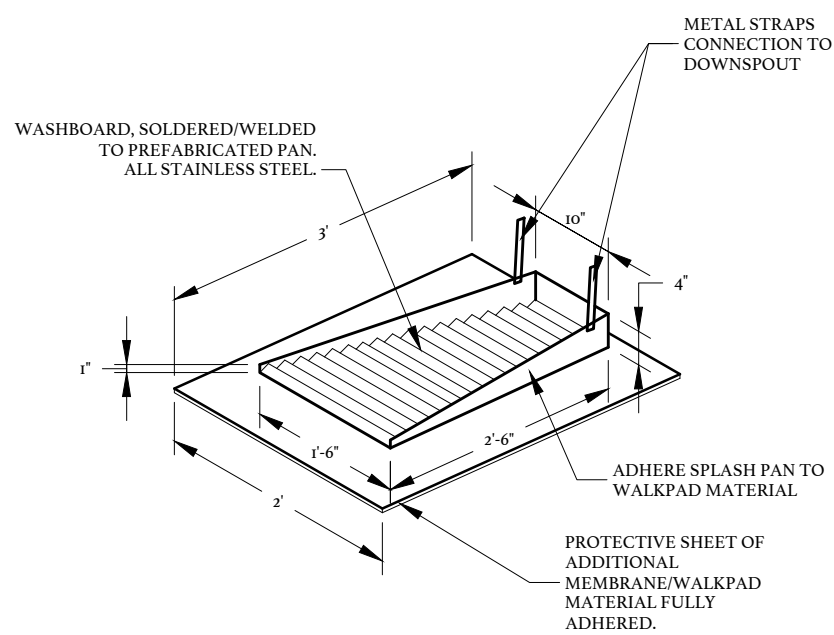
**8**  
R401 NOT TO SCALE (TYPICAL)  
**GUTTER EXPANSION JOINT**



**NOTES:**  
1. MINIMUM SIZE 5" X 5"

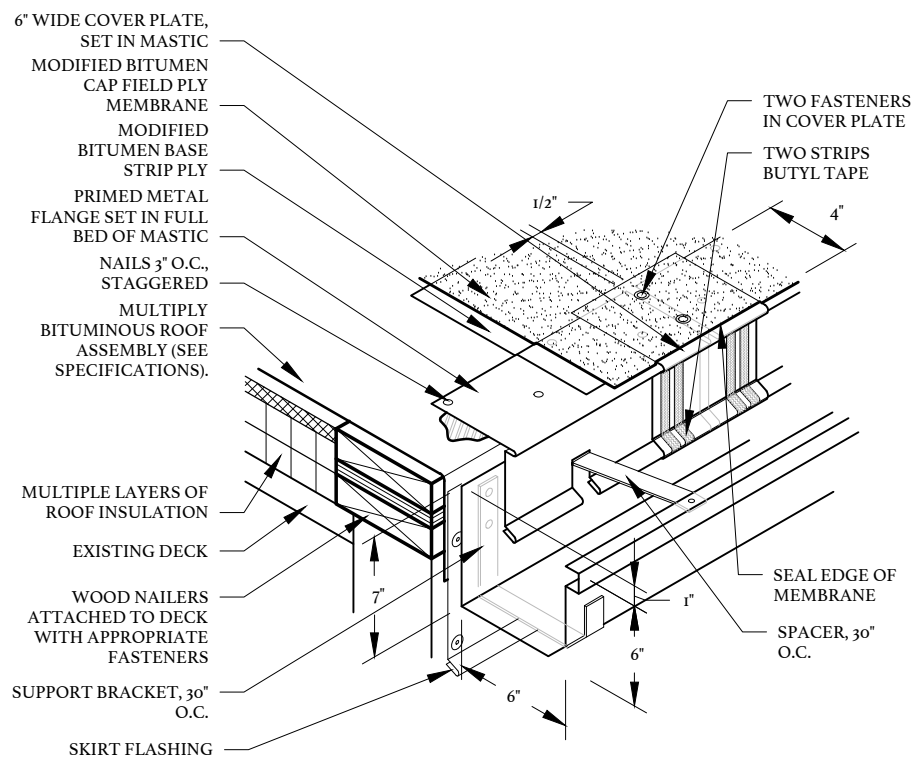
**NOTES:**  
1. PROVIDE CONCRETE SPLASH BLOCKS AT GROUND LEVEL SLOPED AWAY FROM BUILDING, TO DISCHARGE WHEN STORM DRAINS DO NOT EXIST.

**9**  
R401 NOT TO SCALE (TYPICAL)  
**DOWNSPOUT TO SPLASH BLOCK**



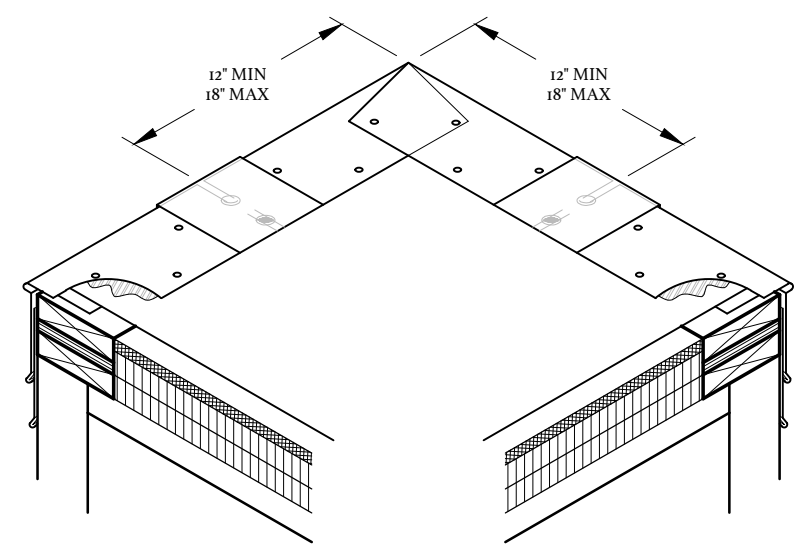
**NOTES:**  
1. PROVIDE AT ALL LOCATIONS WHERE DOWNSPOUT DRAINS ONTO ROOF.

**10**  
R401 NOT TO SCALE (TYPICAL)  
**METAL SPLASH PAN**

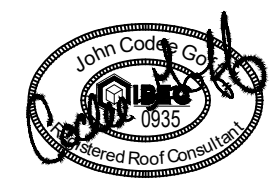


**NOTES:**  
1. MINIMUM SIZE GUTTER 6" x 6" & 1" HIGHER ON INSIDE EDGE.

**11**  
R401 NOT TO SCALE (TYPICAL)  
**METAL ROOF EDGE WITH GUTTER**



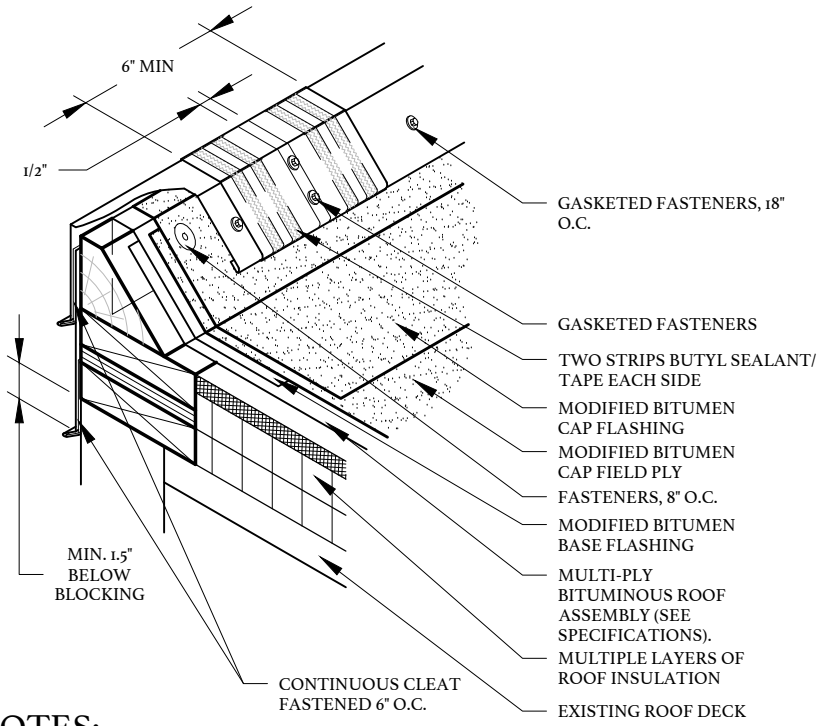
**12**  
R401 NOT TO SCALE (TYPICAL)  
**PREFABRICATED METAL ROOF EDGE CORNER**



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**DETAILS / SECTIONS**

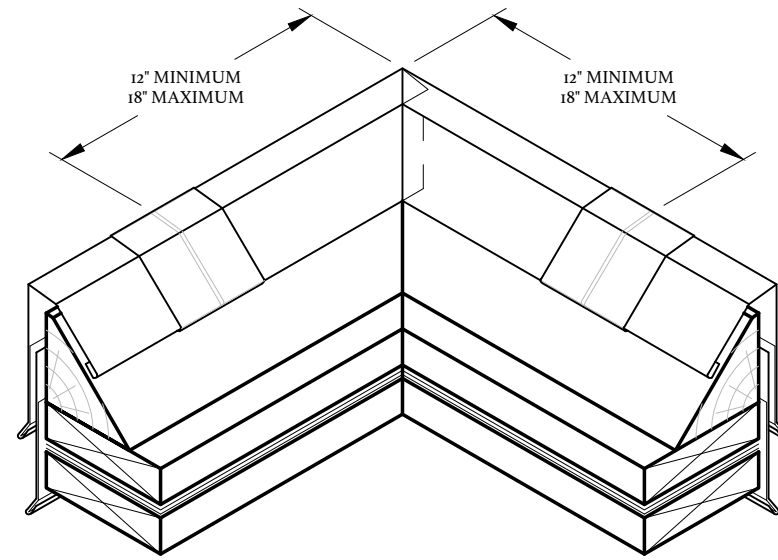
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**NOTES:**

1. SECURE ROOF EDGE WITH TWO FASTENERS AT CENTER OF EACH SECTION AND GASKETED FASTENERS 18" ON CENTER.
2. ATTACH NAILER TO MASONRY WALL. REFER TO FACTORY MUTUAL DATA SHEET 1-49.
3. BASE SHEET TO EXTEND OVER OUTSIDE EDGE TO COVER NAILER.

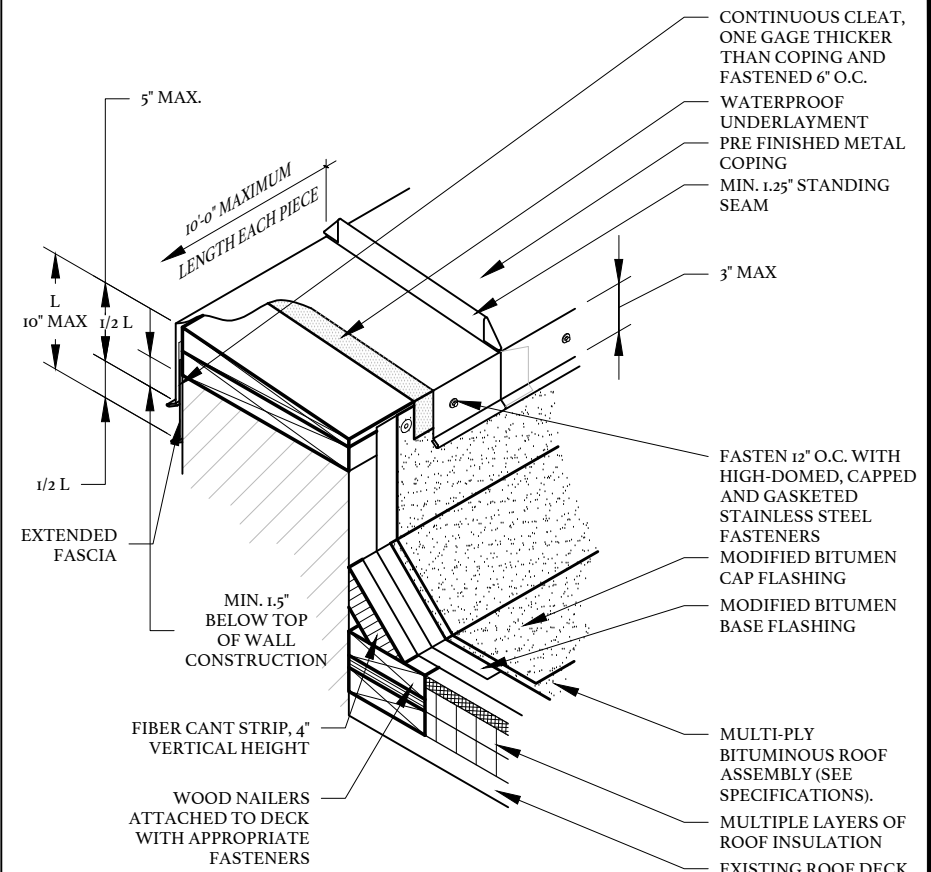
**13**  
R402 NOT TO SCALE (TYPICAL)  
**RAISED METAL EDGE(M700)**



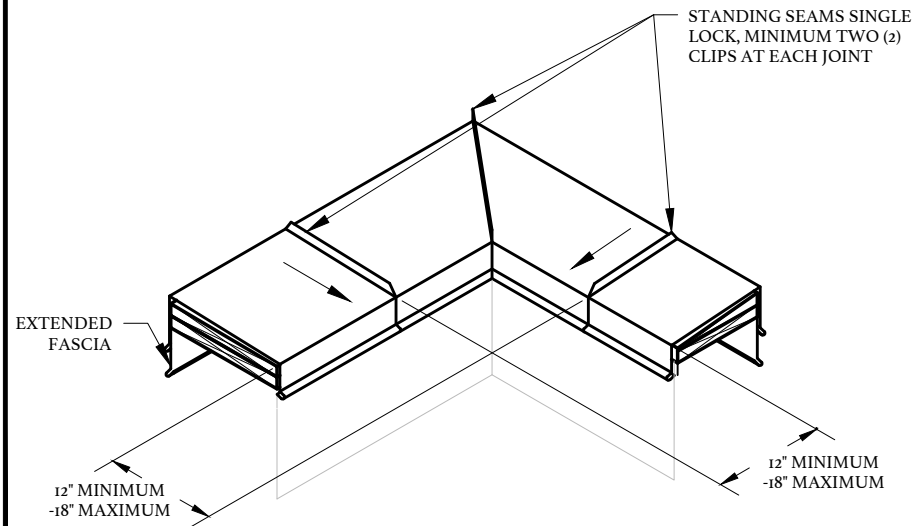
**NOTES:**

1. SEE RAISED METAL EDGE DETAIL.

**14**  
R402 NOT TO SCALE (TYPICAL)  
**RAISED METAL EDGE  
PREFABRICATED CORNER  
WITH EXTENDED FASCIA(M700)**



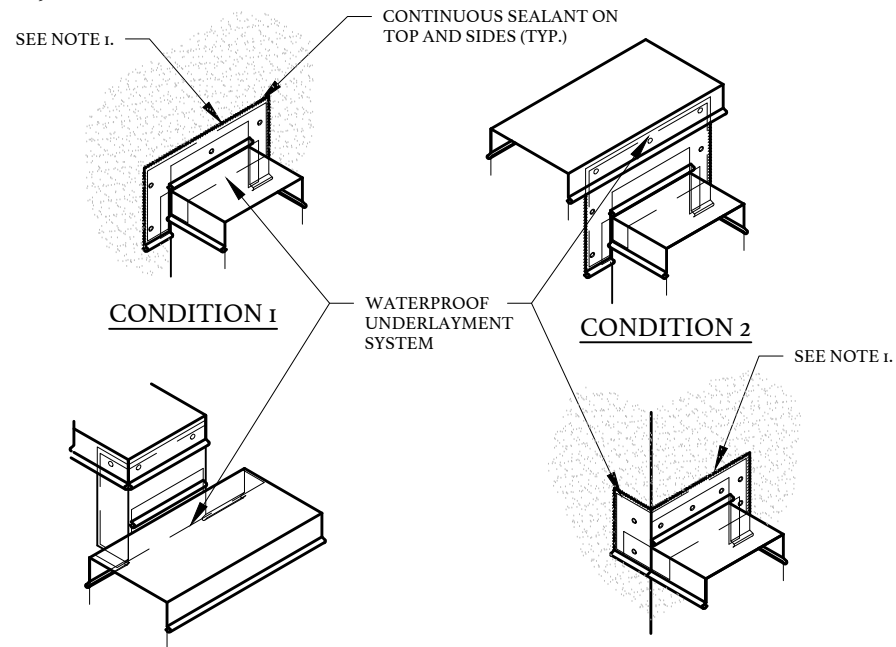
**15**  
R402 NOT TO SCALE (TYPICAL)  
**BASE FLASHING AT PARAPET**



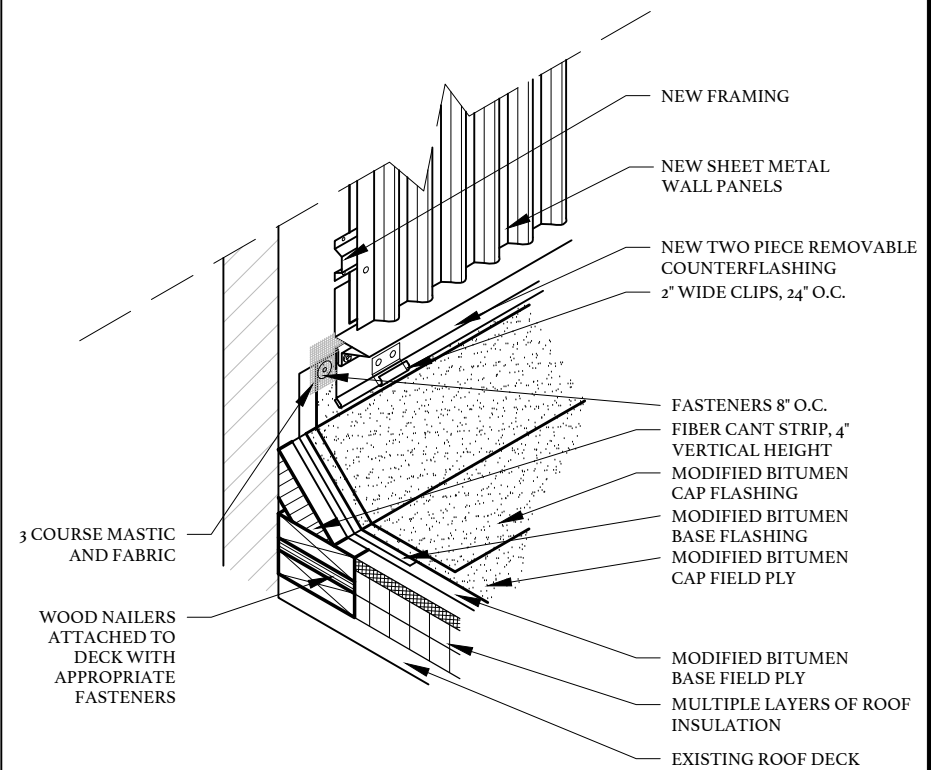
**16**  
R402 NOT TO SCALE (TYPICAL)  
**COPING  
PREFABRICATED CORNER**

**NOTES:**

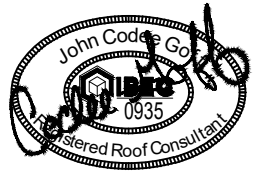
1. CUT REGLET / RAGGLE TO DEPTH OF 1 1/4" FOR MASONRY WALLS, 3/4" FOR CONCRETE WALLS, INSERT LEAD WEDGES 12" O.C. AND PROVIDE BACKER ROD AND SEALANT.
2. WATERPROOF UNDERLAYMENT UNDER ALL SHEET METAL TRANSITION UP VERTICAL SURFACES, AROUND CORNERS AND ONTO HORIZONTAL SURFACES (MINIMUM FOUR INCHES).
3. SEE DETAILS FOR ADDED/EXTENDED COUNTERFLASHING ON OUTER EDGE.



**17**  
R402 NOT TO SCALE (TYPICAL)  
**COPING AND AREA  
DIVIDER TERMINATIONS**



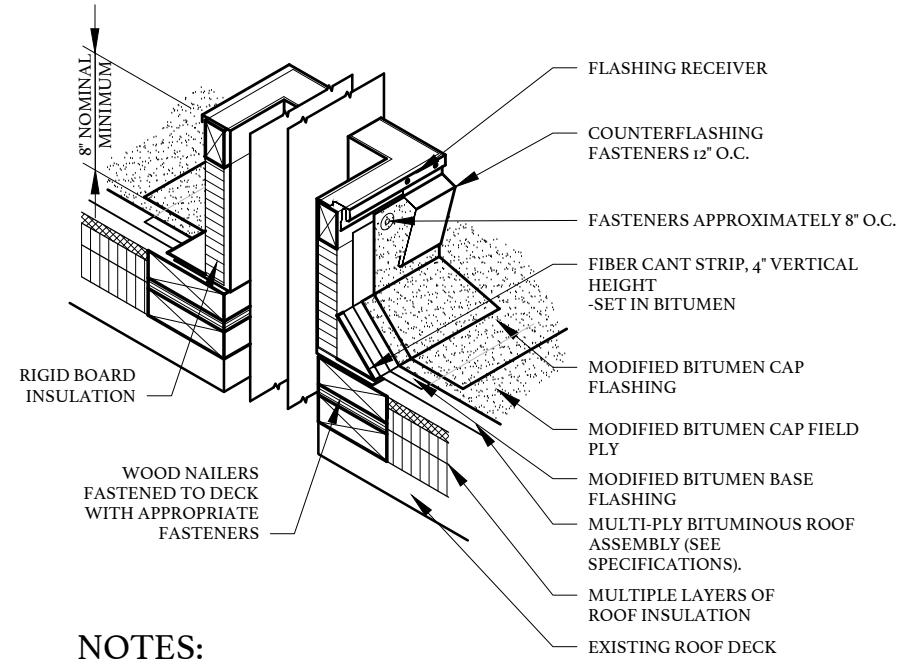
**18**  
R402 NOT TO SCALE (TYPICAL)  
**BASE FLASHING  
WITH WALL PANELS**



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**DETAILS / SECTIONS**

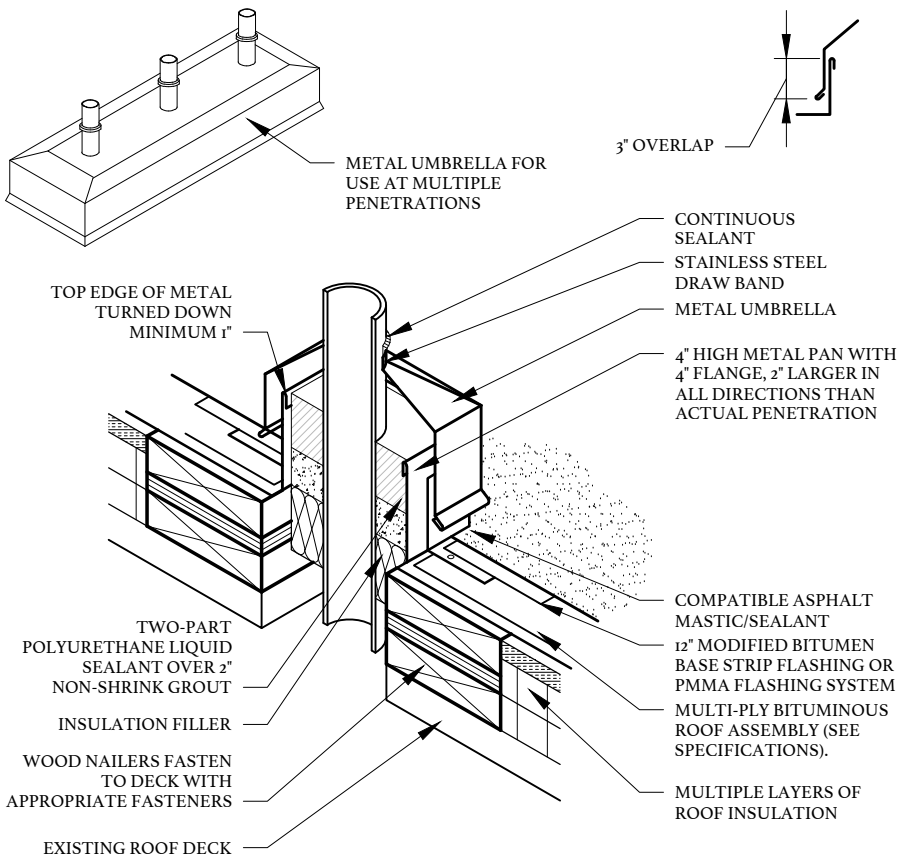
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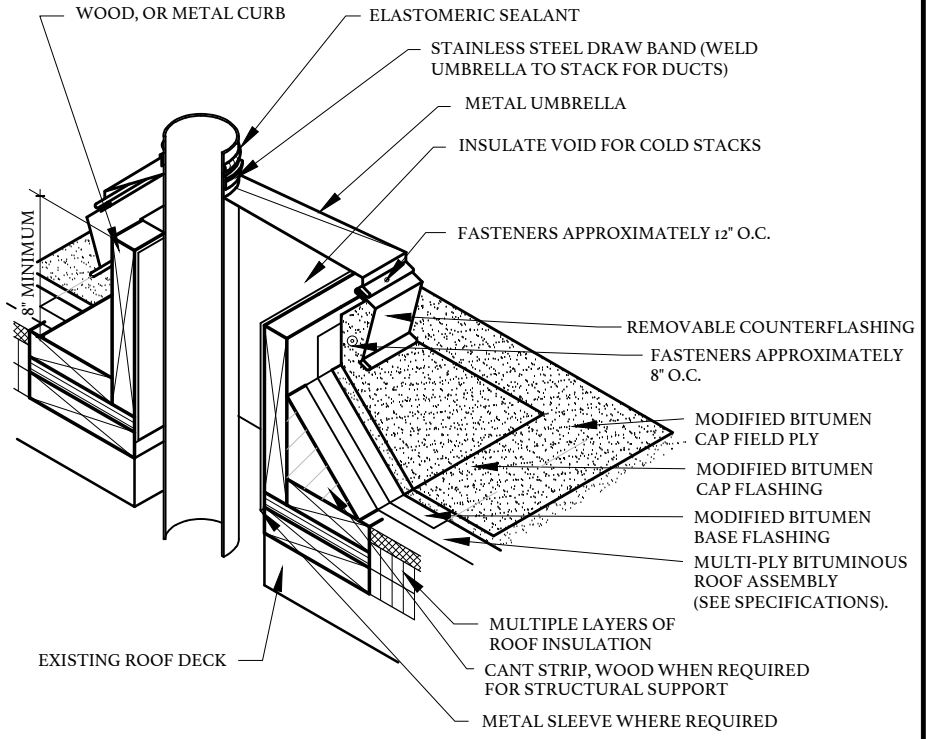
**NOTES:**

1. REMOVE AND REINSTALL HOODS/COVERS, WITH MINIMUM TWO (2) STAINLESS STEEL FASTENERS, EACH SIDE.

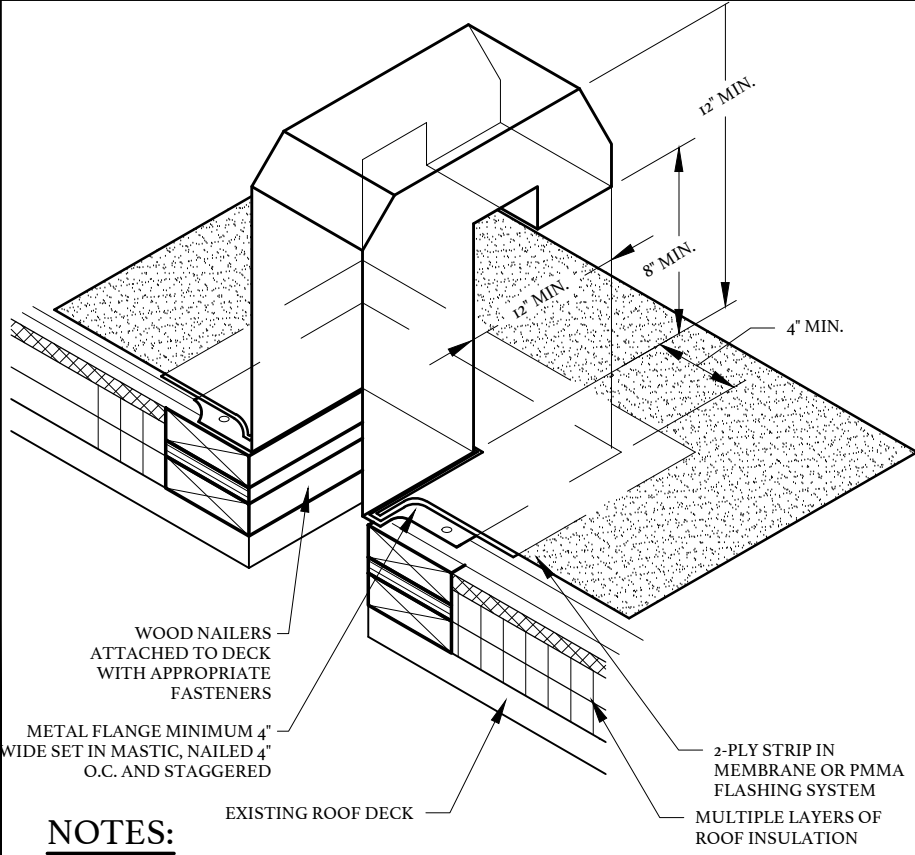
**19 METAL CURB FOR ROOF PENETRATIONS**  
R403 NOT TO SCALE (TYPICAL)



**20 PITCH PAN WITH UMBRELLA**  
R403 NOT TO SCALE (TYPICAL)



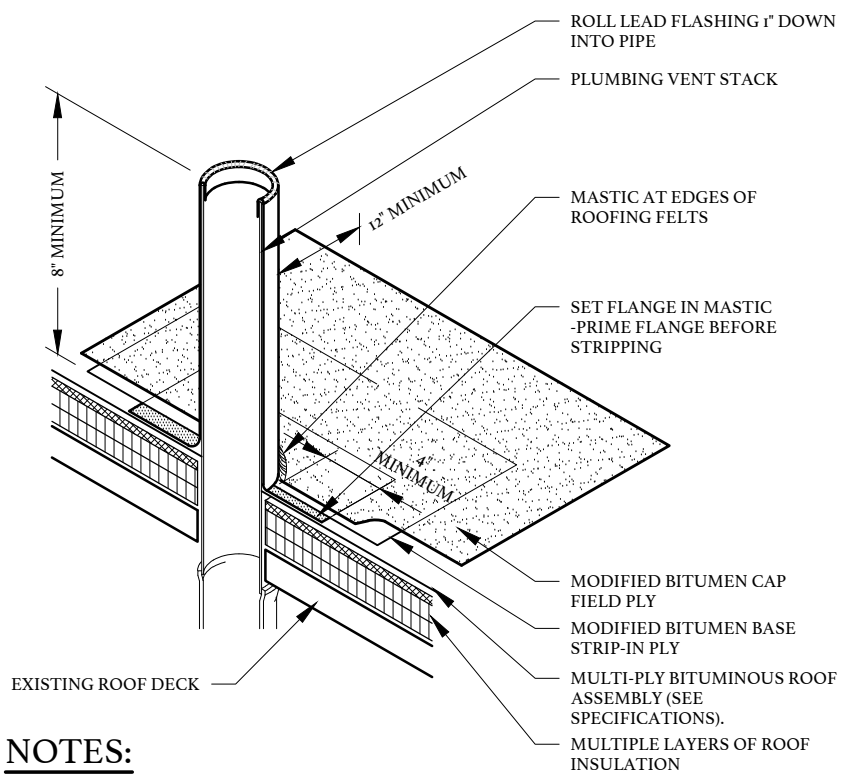
**21 STACK FLASHING**  
R403 NOT TO SCALE (TYPICAL)



**NOTES:**

1. ALL METAL TO BE STAINLESS STEEL.

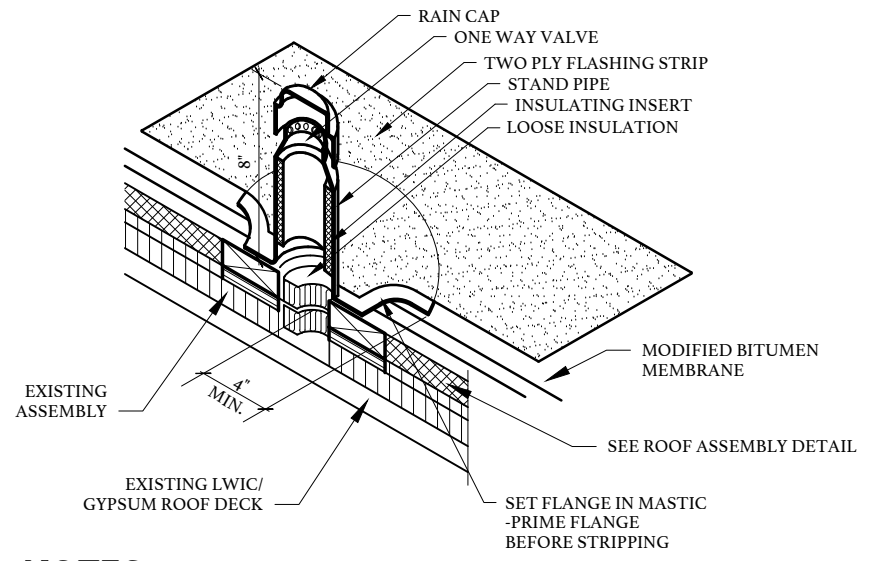
**22 GOOSE NECK DETAIL**  
R403 NOT TO SCALE (TYPICAL)



**NOTES:**

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

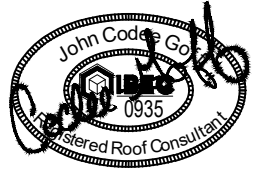
**23 PLUMBING VENT FLASHING**  
R403 NOT TO SCALE (TYPICAL)



**NOTES:**

1. IN APPROXIMATELY 10 LOCATIONS ON BUILDING 300A, AREA A2 AND 300B AREA B1.

**24 ROOF VENT, ONE WAY DETAIL**  
R403 NOT TO SCALE (TYPICAL)

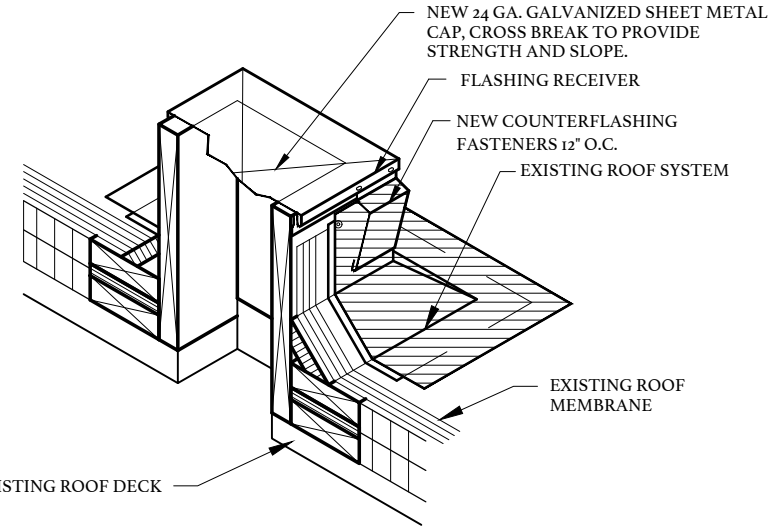


CENTRAL CAROLINA TECHNICAL COLLEGE  
MAIN CAMPUS  
ROOF REPLACEMENT  
OWNER PROJECT NUMBER: H59-6233-PD  
BEE PROJECT NUMBER: 22050  
SUMNER, SOUTH CAROLINA

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**DETAILS / SECTIONS**

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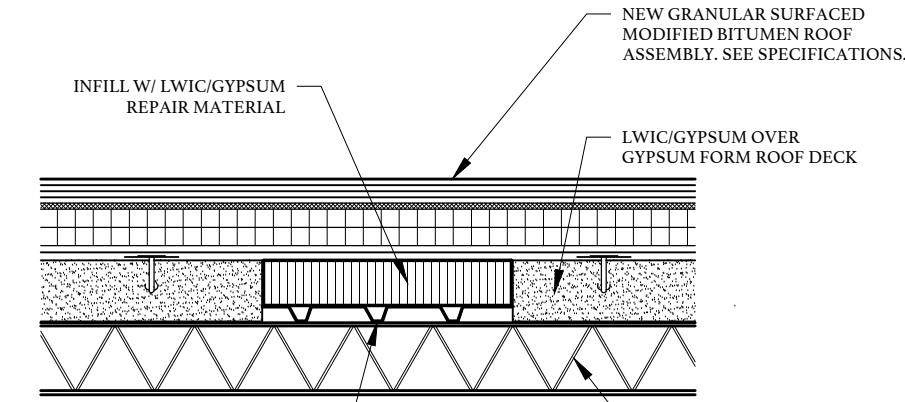


**NOTES:**

1. REMOVE EXISTING ABANDONED MECHANICAL EQUIPMENT AND INSTALL SHEET METAL CAP.

**CURB DETAIL FOR ABANDONED ROOF PENETRATIONS DETAIL**

25  
R404 NOT TO SCALE (TYPICAL)



SHIM WHERE MINOR VARIATIONS IN FRAMING EXIST. ENSURE INFILL SPANS FROM JOIST TO JOIST.

**NOTES:**

1. DECK REPAIR AT ABANDONED CURBS, ELIMINATED DRAINS, AND REMOVED SKYLIGHTS.

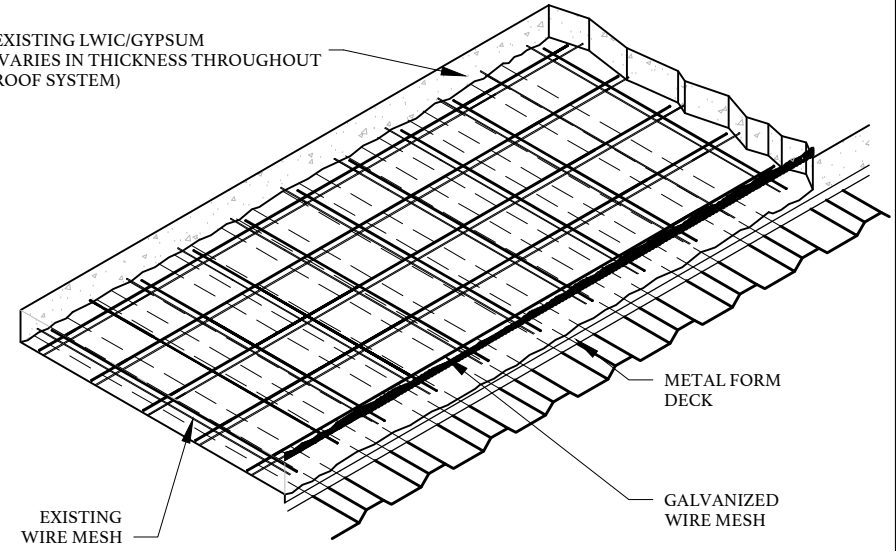
**DECK REPAIR**

26  
R404 NOT TO SCALE (TYPICAL)

**NOTES:**

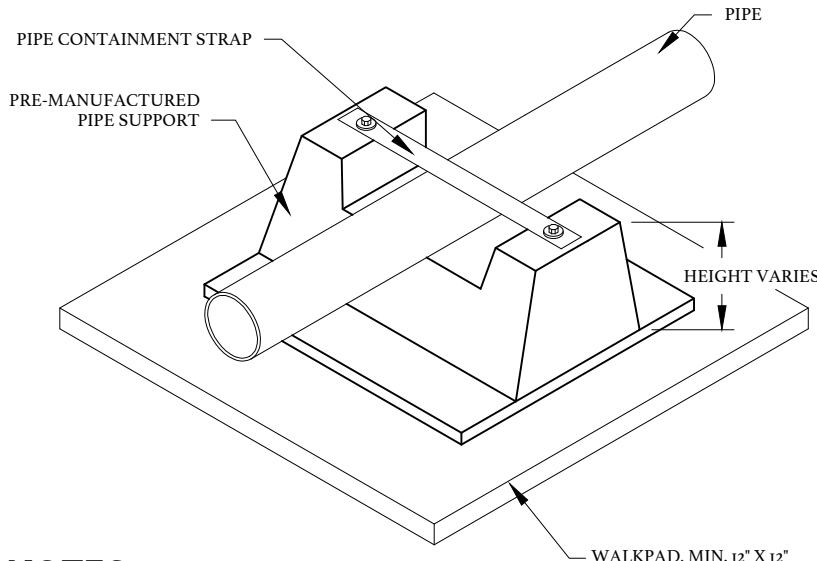
1. FOR AREAS OF REPLACEMENT, REMOVE LWIC/GYPSUM SECTION BACK TO EXISTING STRUCTURAL ELEMENTS AS REQUIRED TO ATTACH NEW STEEL FORM DECK IN ACCORDANCE WITH SECTION 05 31 23, METAL ROOF DECK REPAIR.
2. REMOVE APPROXIMATELY 4"-6" AROUND ENTIRE PERIMETER OF REPAIR AREA TO EXPOSE A MIN. OF 3" OF EXISTING WIRE MESH.
3. TIE NEW GALVANIZED WIRE MESH TO EXISTING WIRE MESH.
4. INSTALL NEW LWIC/GYPSUM ASSEMBLY FLUSH WITH EXISTING LWIC/GYPSUM DECKING.

EXISTING LWIC/GYPSUM (VARIES IN THICKNESS THROUGHOUT ROOF SYSTEM)



**LWIC/GYPSUM & FORM DECK REPAIR**

27  
R404 NOT TO SCALE (TYPICAL)



**NOTES:**

1. THIS DETAIL IS FOR CONDUIT AND SMALL DIAMETER (LESS THAN 2") PIPES ON ROOF SURFACE.
2. HEIGHT TO BE PROVIDED TO EXTEND PIPES OVER EXPANSION JOINTS. TO REPLACE ALL LOCATIONS CURRENTLY USING CMU BLOCK OR WOOD.
3. FOR USE AT SUPPORTS, SET BLOCKING AT MAXIMUM 5' O.C. AND AT ALL CHANGES IN DIRECTION.
4. LARGER PADS ARE TO BE USED AT SATELLITE DISH CONFIGURATIONS, WHERE APPLICABLE.
5. EXISTING SUPPORTS CAN BE USED IN COMBINATION WITH ADDED NEW SUPPORTS FOR REQUIRED SPACING.
6. WALKPAD USED FOR WALKWAYS, ROOF ACCESS, AND AROUND MECHANICAL EQUIPMENT SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURERS DESIGNATED WALKPAD MATERIAL.

**PREFABRICATED CONDUIT/PIPE SUPPORT WITH PAD (< 2" Ø)**

28  
R404 NOT TO SCALE (TYPICAL)

INTENTIONALLY LEFT BLANK

**NOT USED**

29  
R404

INTENTIONALLY LEFT BLANK

**NOT USED**

30  
R404

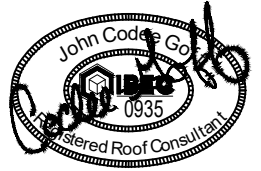


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CHECKED:	JCG
DRAWN:	BSC
REVISION:	

**DETAILS / SECTIONS**



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CENTRAL CAROLINA TECHNICAL COLLEGE  
MAIN CAMPUS  
ROOF REPLACEMENT  
OWNER PROJECT NUMBER: H59-6233-PD  
BEE PROJECT NUMBER: 22050  
SUMMER, SOUTH CAROLINA

DATE:	02/09/2024
BEE PROJECT #:	22050
DESIGNED:	JCG
CHECKED:	JCG
DRAWN:	BSC
REVISION:	

**DETAILS / SECTIONS**

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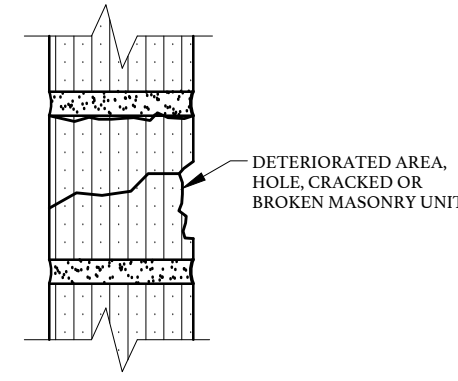
31  
R405 NOT USED

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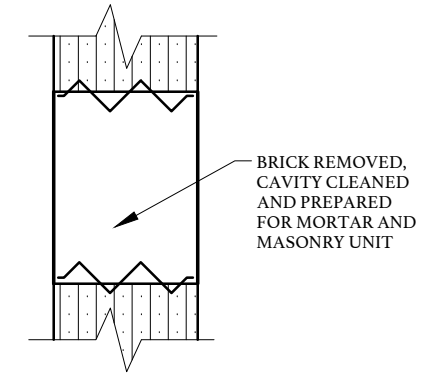
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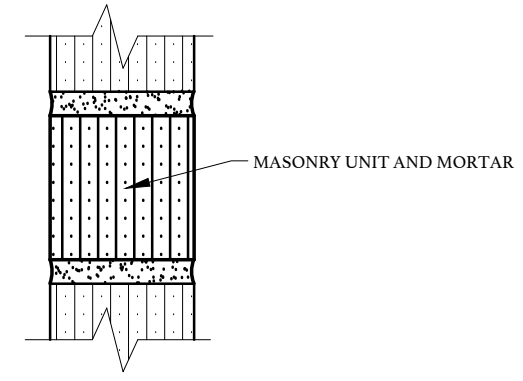
33  
R405 NOT USED



EXISTING CRACKED/DAMAGED MASONRY UNIT  
STEP ONE



PREPARE FOR MASONRY UNIT REPLACEMENT  
STEP TWO



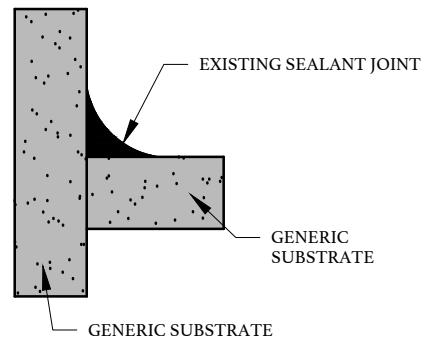
REPAIR MASONRY UNIT REPLACEMENT  
STEP THREE

34  
R405 **BROKEN MASONRY UNIT REPLACEMENT**  
NOT TO SCALE (TYPICAL)

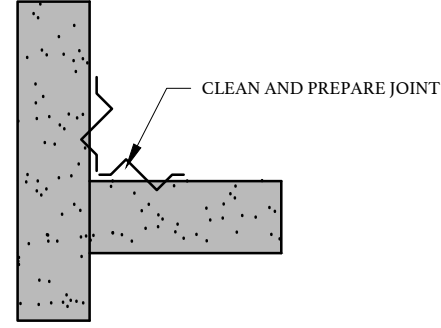
**NOTES:**

- FOR LOCATIONS WHERE OVERFLOW SCUPPERS WERE ENLARGED OR RAISED AT BUILDING 300 A/B.
- FOR LOCATIONS WHERE DRAIN PIPE WAS REMOVED, AT BUILDING 300 A/B.

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**EXISTING CORNER/FILLET JOINT**  
**STEP ONE**

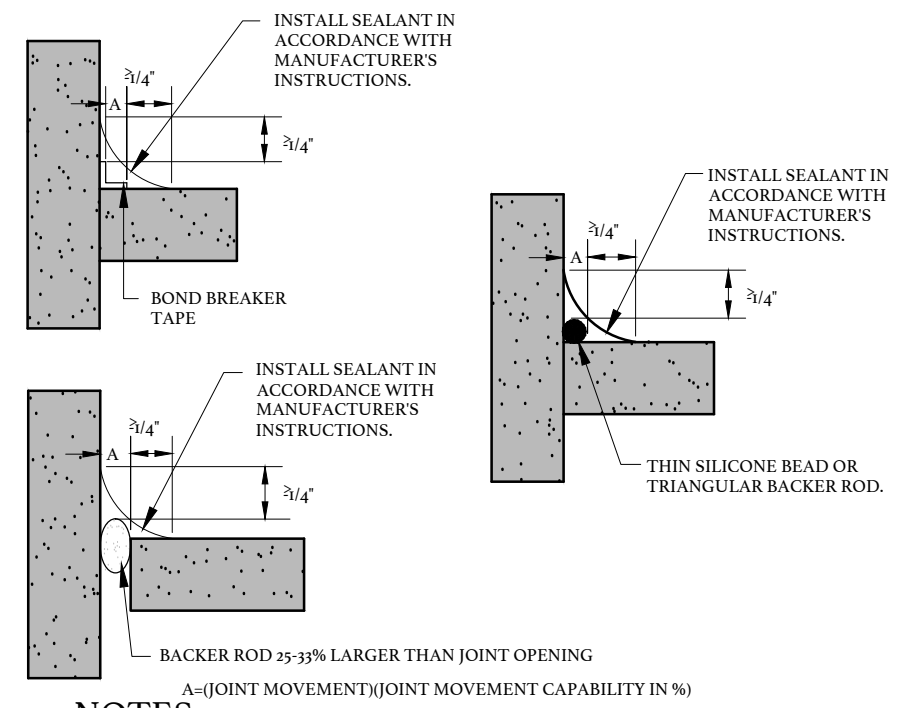


- NOTES:**
1. A SEALANT IS NO BETTER THAN THE SURFACE TO WHICH IT IS ATTACHED. PROPER PREPARATION IS CRITICAL.
  2. THE MANUFACTURERS INSTRUCTIONS MUST BE CAREFULLY FOLLOWED TO OBTAIN PROPER SEALANT ADHESION.
  3. ADHERE TO THE JOINT DESIGN AND APPLICATION REQUIREMENTS.
  4. CONTRACTOR OPTIONS FOR BOND BREAKER/BACKER ROD FOR CORNER/FILLET JOINT.

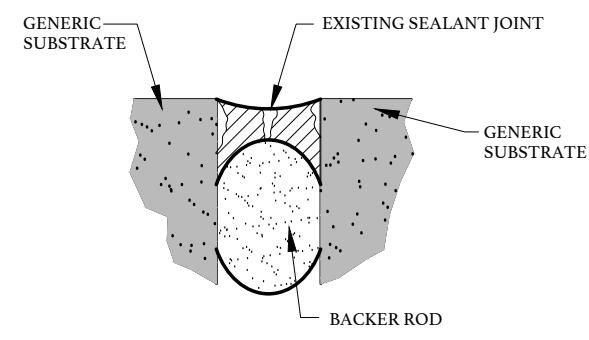
**PREPARE CORNER/FILLET JOINT**  
**STEP TWO**

35  
R406 NOT TO SCALE (TYPICAL)

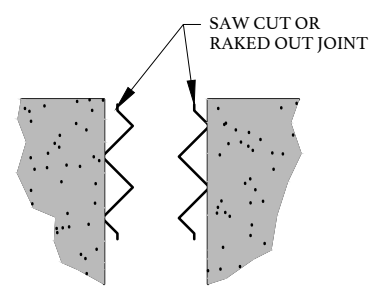
**CORNER/FILLET JOINT**  
NOT TO SCALE (TYPICAL)



- NOTES:**
1. EXISTING CONDITIONS WILL DICTATE TYPE OF FILLET JOINT SPACE(SHOWN ABOVE) TO BE USED.
  2. CONTRACTOR OPTIONS FOR BOND BREAKER/BACKER ROD FOR CORNER/FILLET JOINT.
  3. SEALANT SHALL BE MINIMUM 1/4" THICK.
  4. INSTALL ALL SEALANTS PRIOR TO COATING SYSTEMS AND SYSTEMS SHALL NOT EXTEND OVER SEALANT JOINTS
- PROVIDE CORNER/FILLET JOINT OPTIONS**  
**STEP THREE**



**EXISTING STANDARD JOINT**  
**STEP ONE**

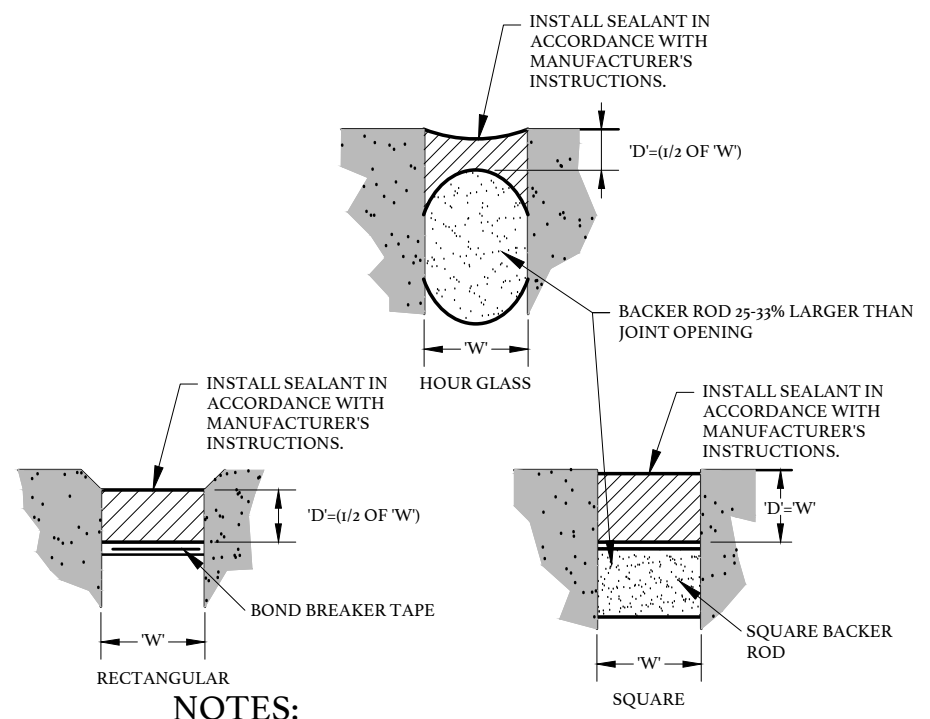


- NOTES:**
1. A SEALANT IS NO BETTER THAN THE SURFACE TO WHICH IT IS ATTACHED. PROPER PREPARATION IS CRITICAL.
  2. THE MANUFACTURERS INSTRUCTIONS MUST BE CAREFULLY FOLLOWED TO OBTAIN PROPER SEALANT ADHESION.
  3. ADHERE TO THE JOINT DESIGN AND APPLICATION REQUIREMENTS.

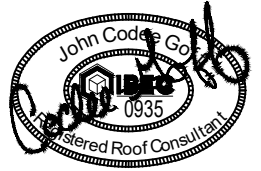
**PREPARE STANDARD JOINT**  
**STEP TWO**

36  
R406 NOT TO SCALE (TYPICAL)

**STANDARD JOINT DETAIL**  
NOT TO SCALE (TYPICAL)



- NOTES:**
1. EXISTING CONDITIONS WILL DICTATE TYPE OF STANDARD JOINT SPACE(SHOWN ABOVE) TO BE USED.
  2. INSTALL ALL SEALANTS PRIOR TO COATING SYSTEMS AND COATING SYSTEMS SHALL NOT EXTEND OVER JOINTS
- PROVIDE STANDARD JOINT OPTIONS**  
**STEP THREE**



CENTRAL CAROLINA TECHNICAL COLLEGE

**MAIN CAMPUS  
ROOF REPLACEMENT**

OWNER PROJECT NUMBER: H59-0233-PD  
BEE PROJECT NUMBER: 22050

SUMTER, SOUTH CAROLINA

DATE:	02/09/2024
BEE PROJECT #:	22050
DESIGNED:	JCG
CHECKED:	JCG
DRAWN:	BSC
REVISION:	

**DETAILS / SECTIONS**

**R406**