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CENTRAL CAROLINA
TECHNICAL COLLEGE

F.E. DUBOSE CAMPUS ROOF REPLACEMENT

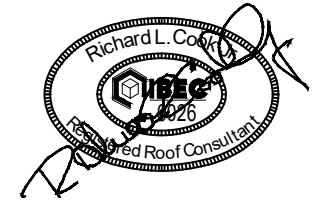
OWNER PROJECT NUMBER: H59-6175-PD

BEE PROJECT NUMBER: 21066

3351 SUMTER HWY
MANNING, SOUTH CAROLINA

The **BUILDING ENVELOPE ENCLOSURE** Group

1226 YEAMANS HALL ROAD, STE C
HANAHAN, SC 29410

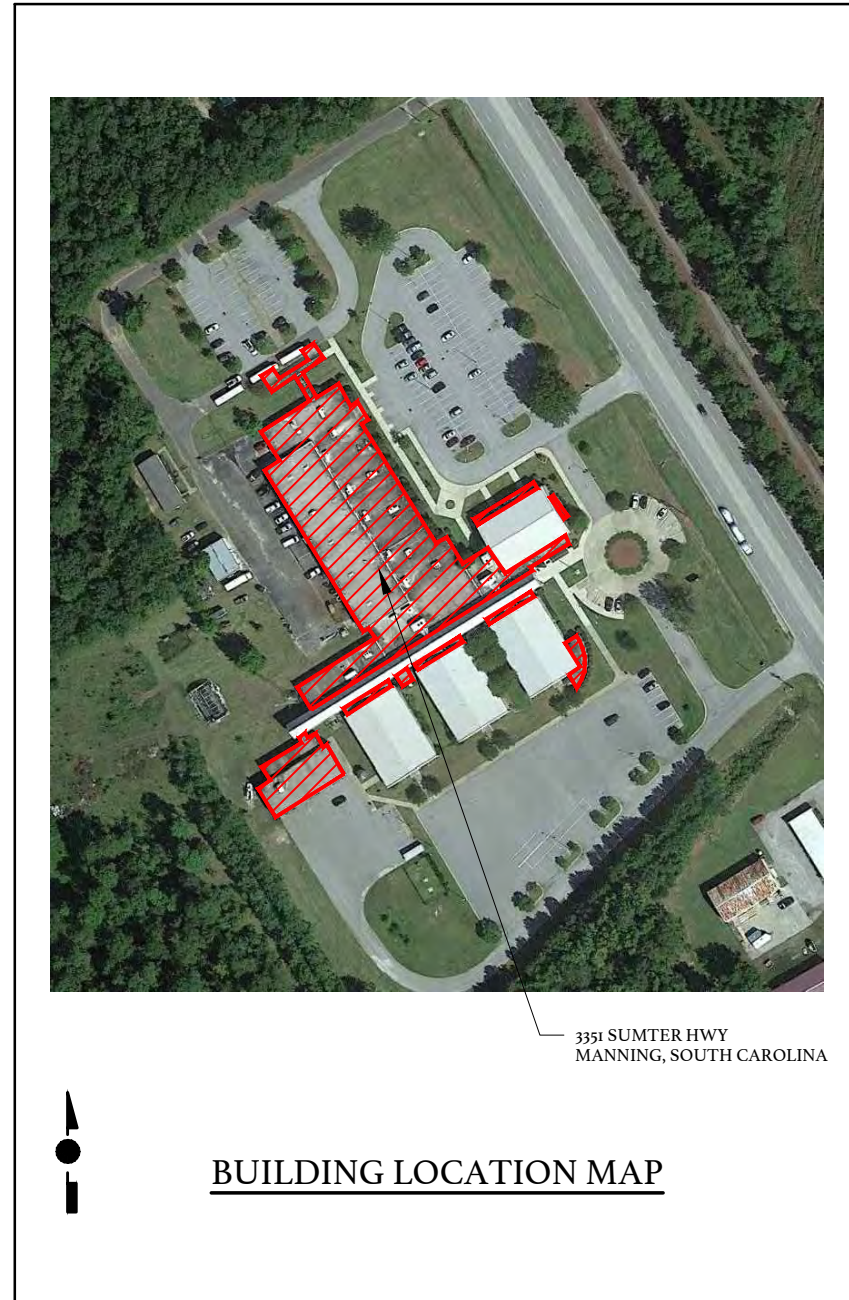
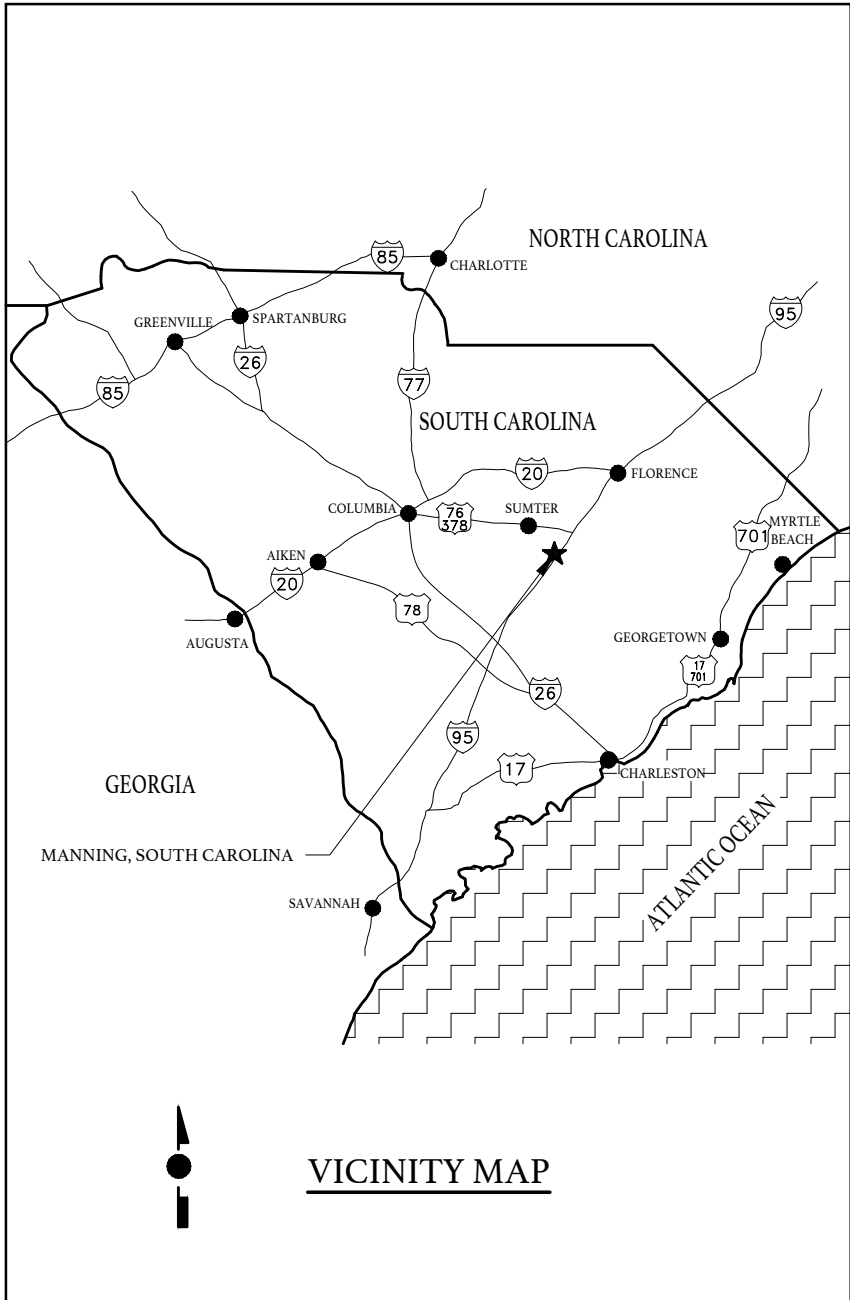


ABBREVIATIONS	
A	ABANDONED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
BIA	BRICK INDUSTRY ASSOCIATION
EPDM	SINGLE PLY
ETC	ET CETERA
HVAC	HEAT/VENTILATION/AIR CONDITION
LB	POUND
N.I.C.	NOT IN CONTRACT
NRCA	NATIONAL ROOFING CONTRACTORS ASSOCIATION
O.C.	ON CENTER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ASSOCIATION
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

DRAWING INDEX	
R100	COVER SHEET
R101	GENERAL NOTES
R102	AERIAL PLAN
R103	OVERALL COMPLEX PLAN
R201	EXISTING ROOF PLAN AREAS A & C (BASE BID)
R202	EXISTING ROOF PLAN AREAS B, Bi, & D (BASE BID)
R203	NEW ROOF PLAN AREAS A & C (BASE BID)
R204	NEW ROOF PLAN AREAS B, Bi, & D (BASE BID)
R205	TAPER ROOF PLAN AREAS A & C (BASE BID)
R206	TAPER ROOF PLAN AREAS B, Bi, & D (BASE BID)
R301	EXISTING ROOF PLAN AREAS E, F, G, & H (ALT. #1)
R302	NEW ROOF PLAN AREAS E, F, G, & H (ALT. #1)
R303	TAPER ROOF PLAN AREAS E, F, G, & H (ALT. #1)
R401	EXISTING ROOF PLAN CANOPY (ALT. #2)
R402	NEW ROOF PLAN CANOPY (ALT. #2)
R403	TAPER ROOF PLAN CANOPY (ALT. #2)
R501	EXISTING ROOF PLAN AREAS I, Ji, J2, K, Ki, K2, L, Li, L2, & M (ALT. #3)
R502	EXISTING ROOF PLAN AREAS N, O, & O1 (ALT. #3)
R503	NEW ROOF PLAN AREAS I, Ji, J2, K, Ki, K2, L, Li, L2, & M (ALT. #3)
R504	NEW ROOF PLAN AREAS N, O, & O1 (ALT. #3)
R505	TAPER ROOF PLAN AREAS I, Ji, J2, K, Ki, K2, L, Li, L2, & M (ALT. #3)
R506	TAPER ROOF PLAN AREAS N, O, & O1 (ALT. #3)
R601	DETAILS / SECTIONS
R602	DETAILS / SECTIONS
R603	DETAILS / SECTIONS
R604	DETAILS / SECTIONS
R605	DETAILS / SECTIONS
R606	DETAILS / SECTIONS
R607	DETAILS / SECTIONS
R608	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
	THROUGH WALL SCUPPER
	DRAIN SCUPPER
	GUTTER W/ DOWNSPOUT
	DOWNSPOUT
	GUTTER W/ DOWNSPOUT TO SPLASH BLOCK
	GUTTER W/ DOWNSPOUT TO SPLASH PAN
	PARAPET WALL
	VENT THRU ROOF
	GOOSE NECK
	PITCH PAN
	VENTILATOR CURB
	CURB W/ PIPES
	STACK
	ROOF HATCH
	EQUIPMENT ON SUPPORTS
	LADDER
	UNIT PENETRATION
	VENTILATOR
	ROOF PENETRATION
	SKY LIGHT
	CAPPED CURB
	METAL ROOF
	APPROXIMATE LEAK LOCATION REPORTED BY PERSONNEL
	STAINED CEILING TILE (NO REPORTED LEAK)



CENTRAL CAROLINA TECHNICAL COLLEGE
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ROOF REPLACEMENT**
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3351 SUMTER HWY
MANNING, SOUTH CAROLINA

DATE:	06/01/2022
BEE PROJECT #:	21066
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	BSC/KAM
REVISION:	

COVER SHEET

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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 TOTAL REMOVAL OF EXISTING ROOF SYSTEMS DOWN TO THE STRUCTURAL DECK FOR ROOF AREAS A, B, Bi, C, AND D FOR APPROXIMATELY 425 SQUARES. ROOF REPLACEMENT INCLUDES MINOR DECK REPAIRS, ROUGH CARPENTRY, ROOF INSULATION, INCLUDING TAPER FOR ROOF AREA Bi, AND A TWO-PLY MODIFIED BITUMEN ROOF SYSTEM. ALL ASSOCIATED SHEET METAL COMPONENTS AND ACCESSORIES ARE INCLUDED.
 - 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. MODIFICATIONS AND REPAIRS TO CEMENTITIOUS WOOD FIBER DECK IN ACCORDANCE WITH SECTION 03 51 00, CEMENTITIOUS WOOD FIBER DECK.
 - 3. MODIFICATIONS AND REPAIRS TO LIGHTWEIGHT INSULATING CONCRETE/GYPSUM IN ACCORDANCE WITH SECTION 03 52 00, LIGHTWEIGHT INSULATING CONCRETE/GYPSUM DECK REPAIR.
 - 4. FABRICATE AND INSTALL METAL FABRICATIONS, LADDERS AND LADDER BRACKETS IN ACCORDANCE WITH SECTION 05 55 00, METAL FABRICATION.
 - 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. OPTIONAL PRE-MANUFACTURED ACCESSORIES SPECIFIED OR AS REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH SECTION 07 72 00, ROOF ACCESSORIES.
 - 9. 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 TOTAL REMOVAL OF EXISTING ROOF SYSTEMS DOWN TO THE STRUCTURAL DECK FOR ROOF AREAS E, F, G AND H FOR APPROXIMATELY 35 SQUARES. ROOF REPLACEMENT INCLUDES MINOR DECK REPAIRS, ROUGH CARPENTRY, ROOF INSULATION, INCLUDING TAPER, AND A TWO-PLY MODIFIED BITUMEN ROOF SYSTEM. ALL ASSOCIATED SHEET METAL COMPONENTS AND ACCESSORIES ARE INCLUDED.
- D. ALTERNATE NUMBER 2 WORK INCLUDES TOTAL REMOVAL OF EXISTING ROOF SYSTEMS DOWN TO THE STRUCTURAL DECK FOR CANOPY ROOF AREA AT THE BUS LOOP FOR APPROXIMATELY 12 SQUARES. ROOF REPLACEMENT INCLUDES MINOR DECK REPAIRS, ROUGH CARPENTRY, ROOF INSULATION, INCLUDING TAPER, AND A TWO-PLY MODIFIED BITUMEN ROOF SYSTEM. ALL ASSOCIATED SHEET METAL COMPONENTS AND ACCESSORIES ARE INCLUDED.
- E. ALTERNATE NUMBER 3 WORK INCLUDES TOTAL REMOVAL OF EXISTING ROOF SYSTEMS DOWN TO THE STRUCTURAL DECK FOR ROOF AREAS I, J, Ji, J2, K, Ki, K2, L, Li, L2, M, N, O AND O1 FOR APPROXIMATELY 75 SQUARES. ROOF REPLACEMENT INCLUDES MINOR DECK REPAIRS, ROUGH CARPENTRY, ROOF INSULATION, INCLUDING TAPER, AND A TWO-PLY MODIFIED BITUMEN ROOF SYSTEM. ALL ASSOCIATED SHEET METAL COMPONENTS AND ACCESSORIES ARE INCLUDED.
- F. 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. 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/GUTTERS FROM HVAC UNITS.
- 7. 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. IBC 2018, CHAPTER 15, ROOF ASSEMBLIES AND ROOF TOP STRUCTURES
- 2. INTERNATIONAL EXISTING BUILDING CODE (IEBC), 2018
- 3. INTERNATIONAL BUILDING CODE (IBC), 2018

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

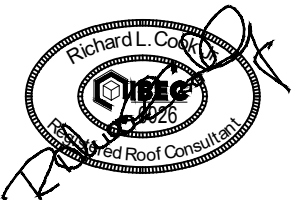
- 1. SEE SECTION 01 50 00, CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS, SECTION 02 04 00, CUTTING AND PATCHING, AND SECTION 02 05 00, DEMOLITION AND REMOVAL.
- 2. REMOVE EXISTING SYSTEMS IN THEIR ENTIRETY DOWN TO THE EXISTING DECK IN INDICATED AREAS OF ROOF REPLACEMENT. AVOID DAMAGING THE ROOF DECK. 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. 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.
- 8. ALL DEMOLITION SHALL ADHERE TO ANSI AND OSHA GUIDELINES, AND SECTION 01 52 05.
- 9. ANY LIGHTNING PROTECTION SYSTEM SHALL BE TEMPORARILY DISCONNECTED AND REMOVED TO COMPLETE WORK, AND REINSTALLED EACH DAY.

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. APPLICATIONS / INSTALLATIONS WHICH MAY AFFECT ADJACENT FACILITIES, VEHICLES OR PEDESTRIANS MUST BE PLANNED AND COORDINATED TO ENSURE NO DAMAGE OCCURS.



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3351 SUMTER HWY
MANNING, SOUTH CAROLINA

DATE: 06/01/2022

BEE PROJECT #: 21066

DESIGNED: RLC

CHECKED: JCG

DRAWN: BSC/KAM

REVISION:

GENERAL NOTES

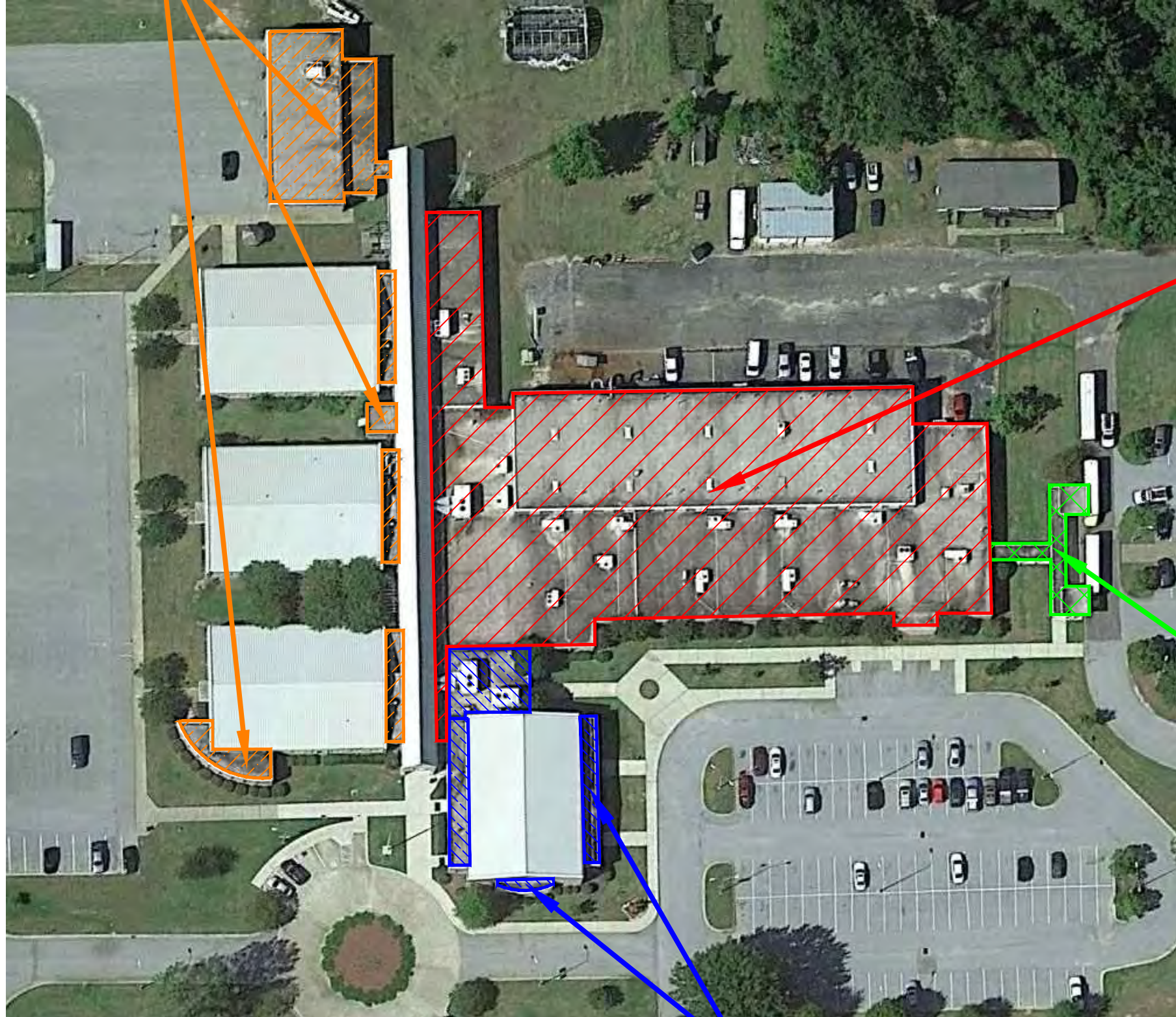
RIOI

SHEET 2 OF 30

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ALTERNATE #3

- ROOF REPLACEMENT ROOF AREAS I, J, Ji, J2, K, Ki, K2, L, Li, L2, M, N, O, & Oi



BASE BID

- ROOF REPLACEMENT ROOF AREAS A, B, Bi, C, & D

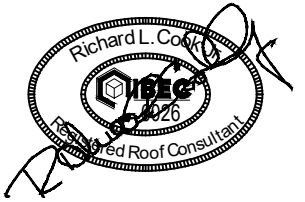
ALTERNATE #2

- ROOF REPLACEMENT CANOPY

ALTERNATE #1

- ROOF REPLACEMENT ROOF AREAS E, F, G, & H

AERIAL PLAN



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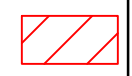
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AERIAL PLAN

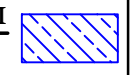
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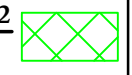
BASE BID
ROOF AREAS A, B, B1, C, & D
ROOF REPLACEMENT



ALTERNATE #1
ROOF AREAS E, F, G, & H
ROOF REPLACEMENT



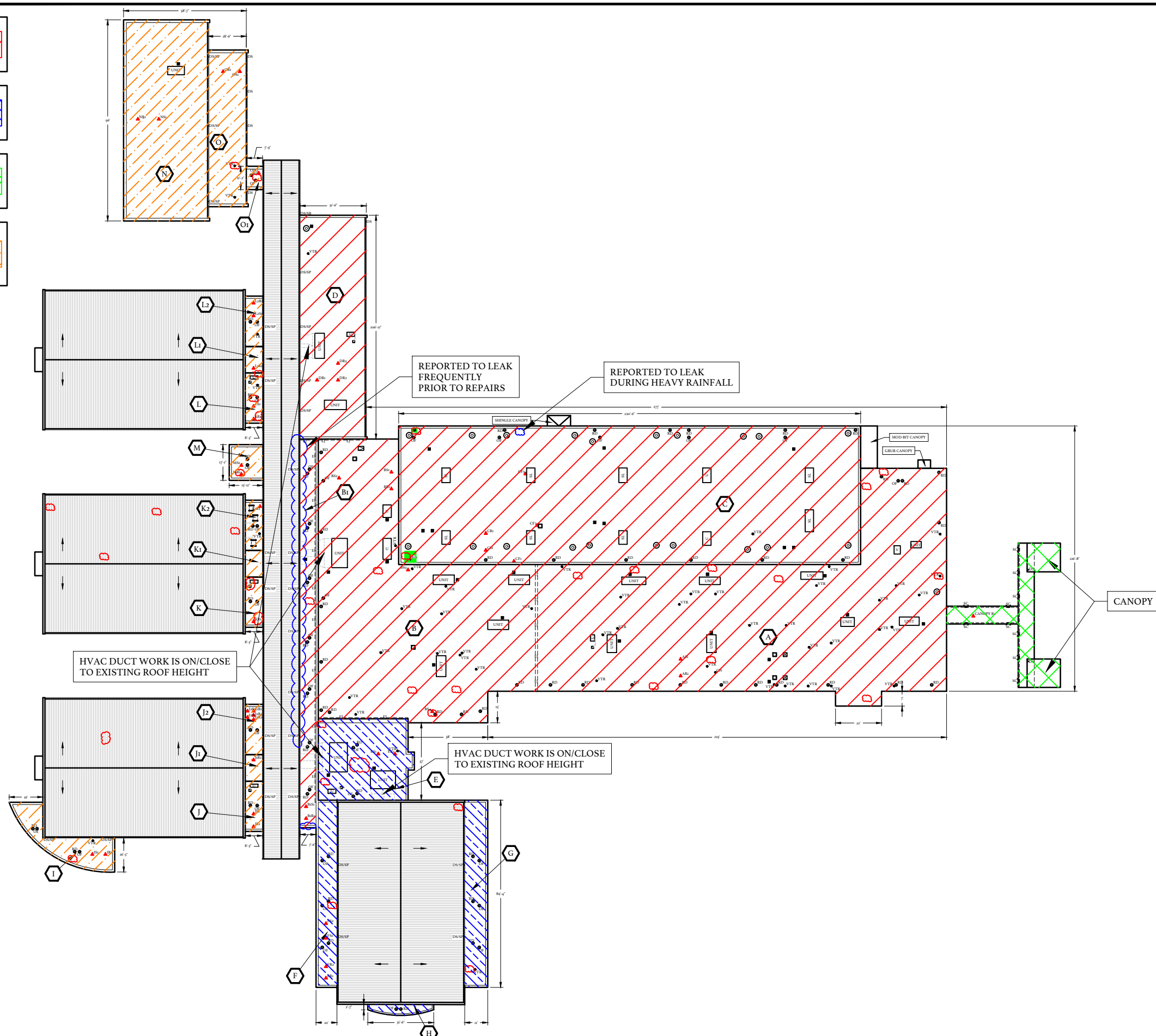
ALTERNATE #2
CANOPY
ROOF REPLACEMENT



ALTERNATE #3
ROOF AREAS I, J, J1, J2, K, K1, K2,
L, L1, L2, M, N, O, & O1
ROOF REPLACEMENT

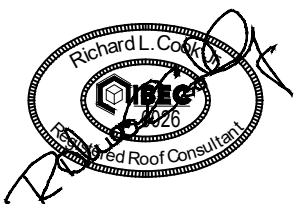


NOTE:
METAL ROOF AREAS NOT IN
SCOPE OF WORK.



OVERALL COMPLEX PLAN

NOT TO SCALE



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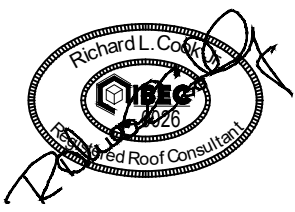
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**OVERALL
COMPLEX
PLAN**

R103

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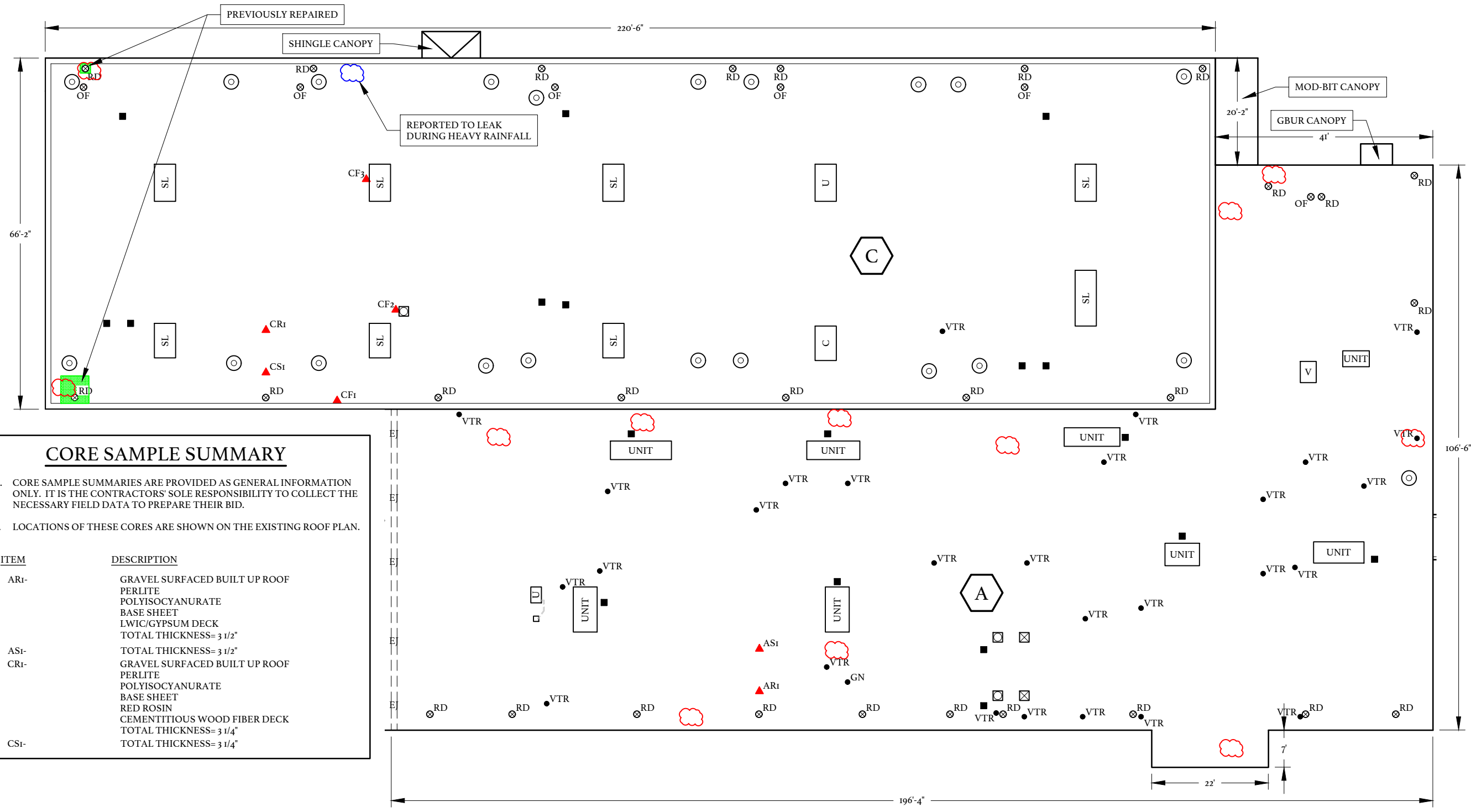


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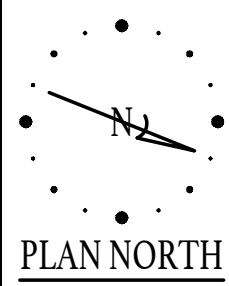
EXISTING ROOF PLAN
AREAS A & C
(BASE BID)



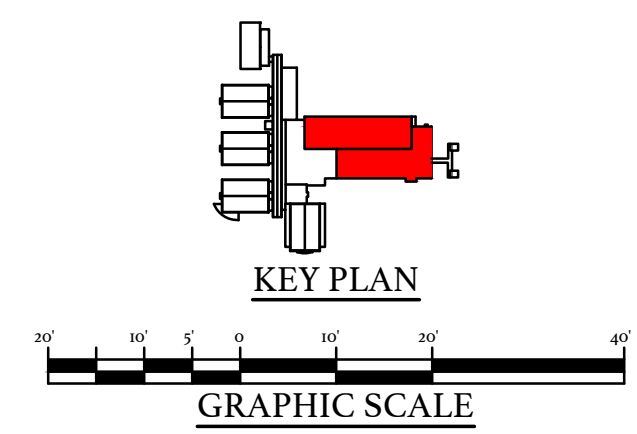
CORE SAMPLE SUMMARY

- 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.

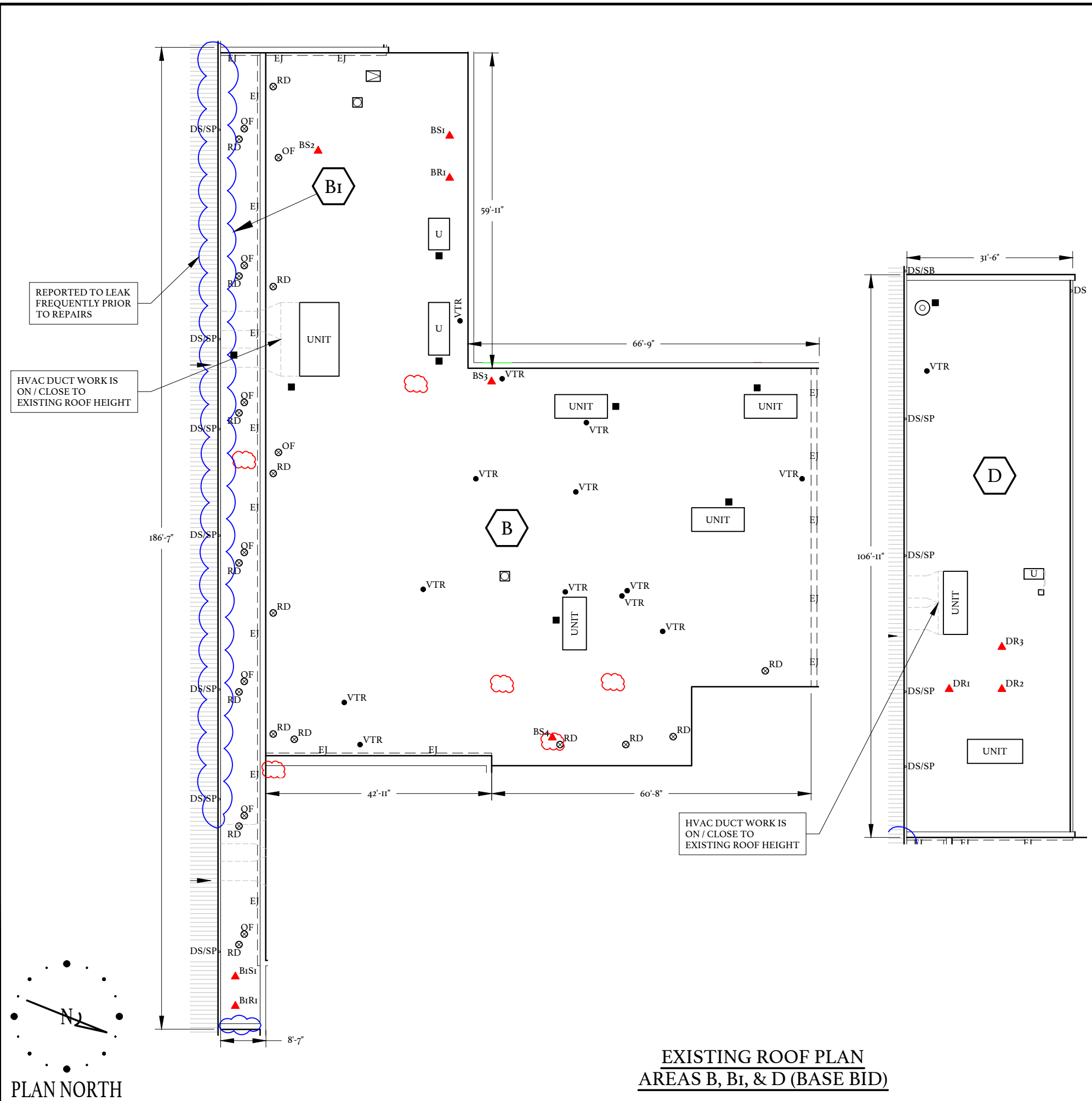
ITEM	DESCRIPTION
ARi-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE BASE SHEET LWIC/GYPSUM DECK TOTAL THICKNESS= 3 1/2"
ASi-	TOTAL THICKNESS= 3 1/2"
CRi-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE BASE SHEET RED ROSIN CEMENTITIOUS WOOD FIBER DECK TOTAL THICKNESS= 3 1/4"
CSi-	TOTAL THICKNESS= 3 1/4"



EXISTING ROOF PLAN
AREAS A & C (BASE BID)



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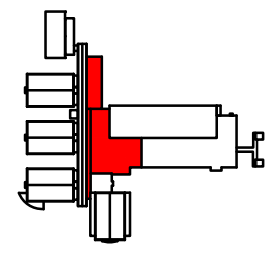
**EXISTING ROOF PLAN
AREAS B, B1, & D (BASE BID)**

CORE SAMPLE SUMMARY

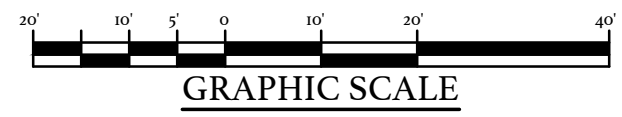
A. CORE SAMPLE SUMMARIES ARE PROVIDED AS GENERAL INFORMATION ONLY. IT IS THE CONTRACTORS' SOLE RESPONSIBILITY TO COLLECT THE NECESSARY FIELD DATA TO PREPARE THEIR BID.

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

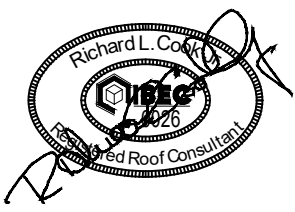
ITEM	DESCRIPTION
BR1-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE BASE SHEET LWIC/GYPSUM DECK TOTAL THICKNESS= 3 1/2"
BS1-	TOTAL THICKNESS= 3 1/2"
BS2-	TOTAL THICKNESS= 3 1/2"
BS3-	TOTAL THICKNESS= 3 1/2"
BS4-	TOTAL THICKNESS= 3 1/2"
B1R1-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE LWIC/GYPSUM DECK TOTAL THICKNESS= 4 3/4"
B1S1-	TOTAL THICKNESS= 3 3/4"
DR1-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE LWIC/GYPSUM DECK TOTAL THICKNESS= 3 3/4"
DR2-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE LWIC/GYPSUM DECK TOTAL THICKNESS= 3 3/4"
DR3-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE LWIC/GYPSUM DECK TOTAL THICKNESS= 3 3/4"



KEY PLAN



GRAPHIC SCALE



CENTRAL CAROLINA TECHNICAL COLLEGE

**F.E. DUBOSE CAMPUS
ROOF REPLACEMENT**

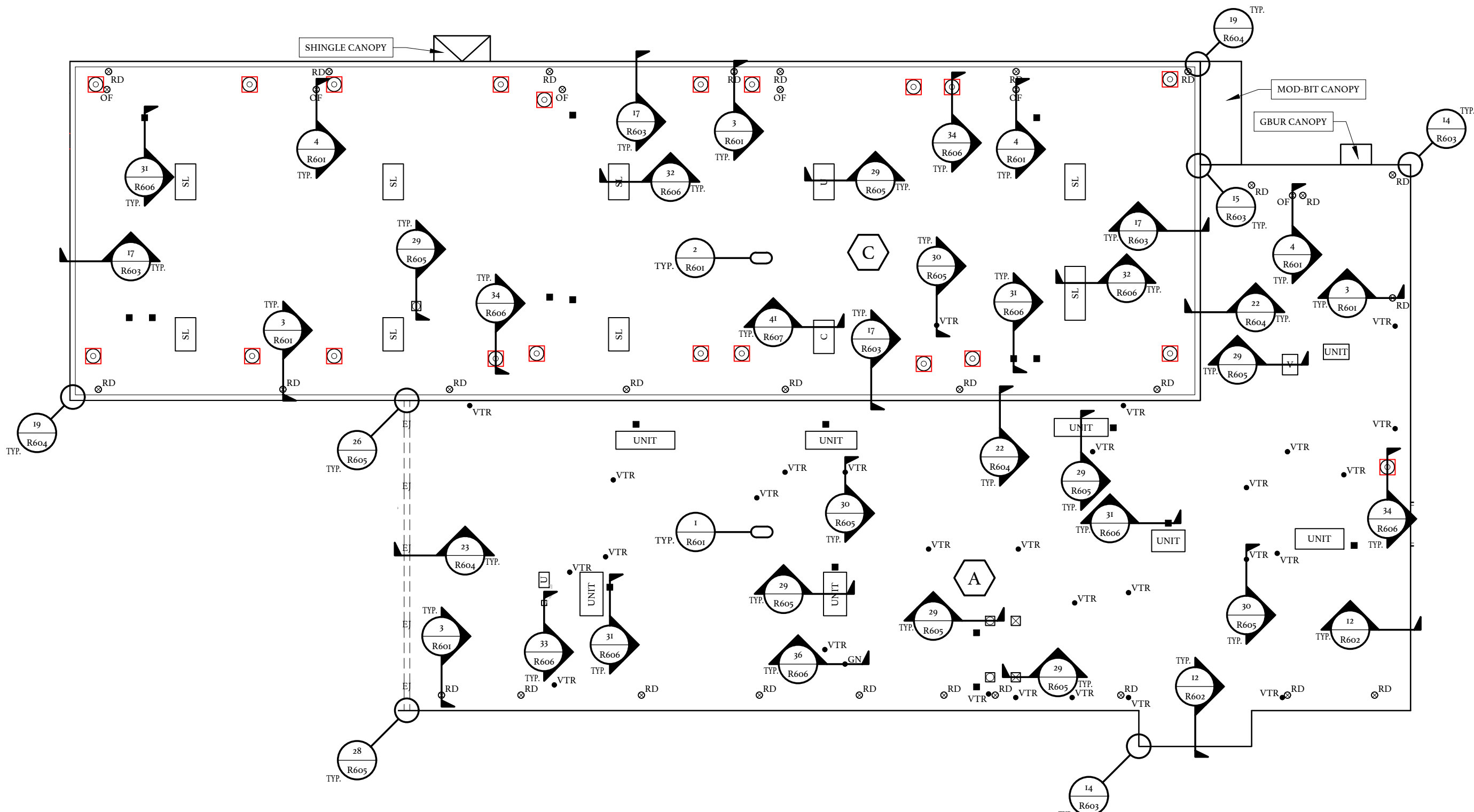
OWNER PROJECT NUMBER: H59-6775-PD
BEE PROJECT NUMBER: 21066

3351 SUMTER HWY
MANNING, SOUTH CAROLINA

DATE:	06/01/2022
BEE PROJECT #:	21066
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	BSC/KAM
REVISION:	

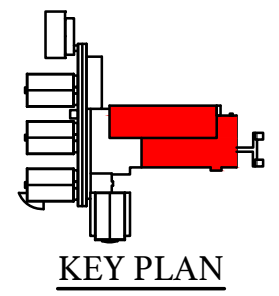
**EXISTING ROOF PLAN
AREAS B, B1, & D
(BASE BID)**

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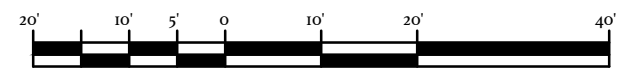


- NOTES:**
1. ROOF DRAINS TO BE MODIFIED TO BE FLUSH WITH NEW ROOF SURFACE/ASSEMBLY.
 2. SELECT MECH UNITS TO BE REPLACED UNDER SEPARATE M/E/P PROJECT AS SHOWN PER ADDENDA.
 3. NEW CURB HEIGHT SHALL BE MINIMUM 8" ABOVE THE FINISHED ROOF.
 4. LOUVERS ON MASONRY WALL TO BE REMOVED TO PROVIDE NEW SILL FLASHING. LOUVER TO BE MODIFIED / REINSTALLED.
 5. ALL EXISTING SKYLIGHTS TO BE RAISED TO PROVIDE MINIMUM 8" BASE FLASHING.

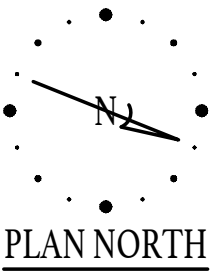
**NEW ROOF PLAN
AREAS A & C (BASE BID)**



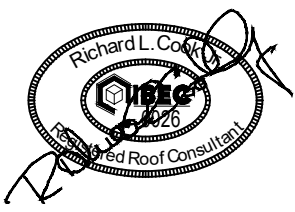
KEY PLAN



GRAPHIC SCALE



PLAN NORTH



CENTRAL CAROLINA TECHNICAL COLLEGE
**F. E. DUBOSE CAMPUS
ROOF REPLACEMENT**

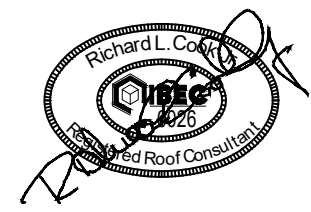
OWNER PROJECT NUMBER: H59-0775-PD
BEE PROJECT NUMBER: 21066
3351 SUMNER HWY
MANNING, SOUTH CAROLINA

DATE:	06/01/2022
BEE PROJECT #:	21066
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	BSC/KAM
REVISION:	

**NEW ROOF PLAN
AREAS A & C
(BASE BID)**

R203

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CENTRAL CAROLINA TECHNICAL COLLEGE

**F.E. DUBOSE CAMPUS
ROOF REPLACEMENT**

OWNER PROJECT NUMBER: H59-0775-PD
BEE PROJECT NUMBER: 21066

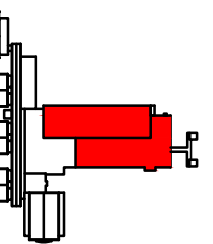
3351 SUMTER HWY
MANNING, SOUTH CAROLINA

DATE:	06/01/2022
BEE PROJECT #:	21066
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	BSC/KAM
REVISION:	

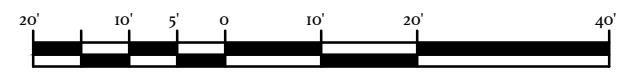
**TAPER
ROOF PLAN
AREAS A & C
(BASE BID)**

R205

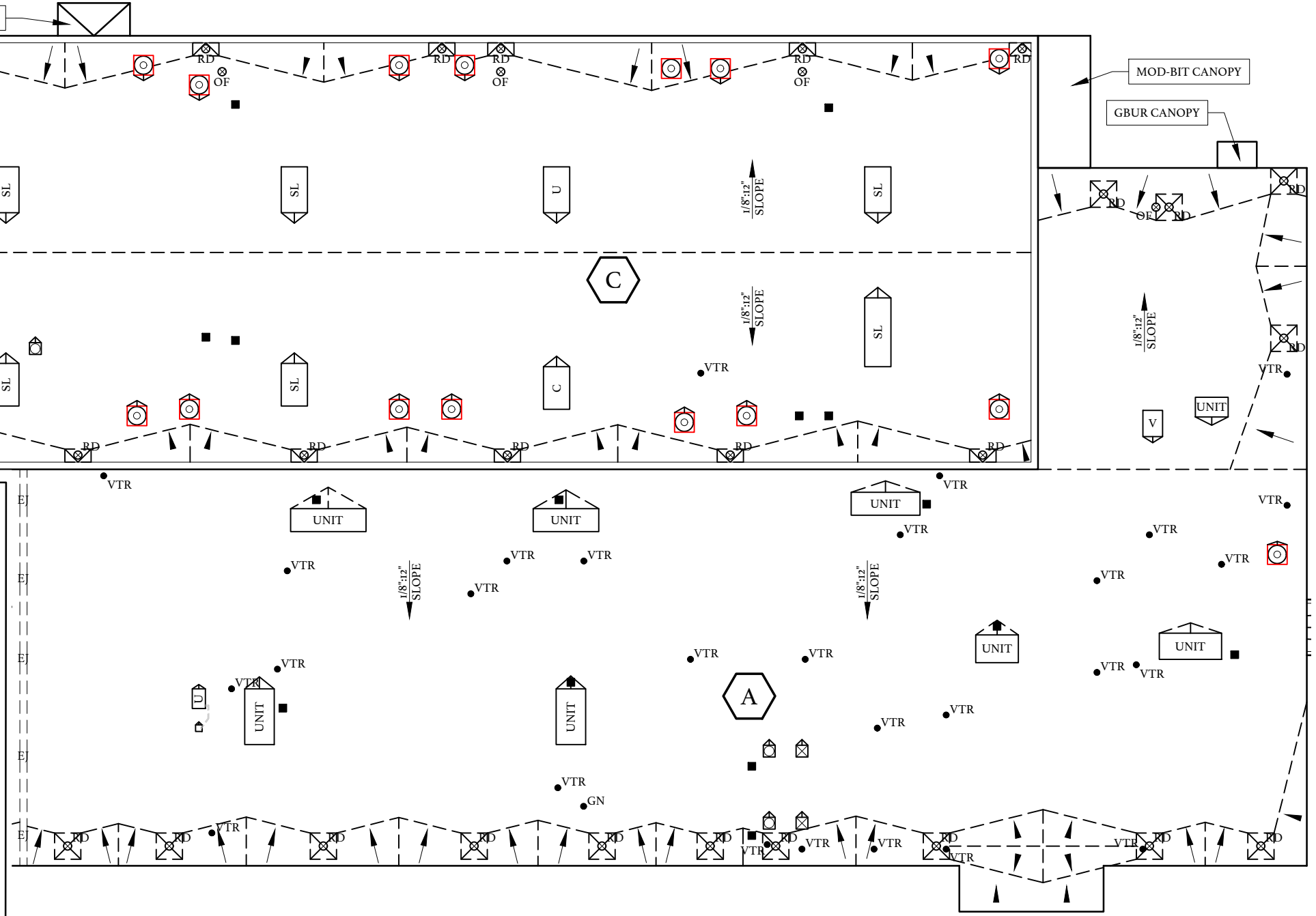
SHEET 9 OF 30



KEY PLAN

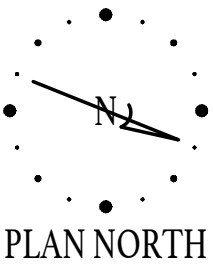


GRAPHIC SCALE



TAPERED INSULATION NOTES

1. THE PRIMARY SLOPE IS IN THE EXISTING DECK, EXCEPT AS NOTED OTHER WISE WHERE 2x PRIMARY SLOPE SHALL BE PROVIDED.
2. SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS) SHALL PROVIDE A MINIMUM SLOPE AS SPECIFIED FOR ALL ROOF AREAS.
 - A. SECONDARY SLOPE SHALL BE A MINIMUM 1/4" INCH PER FOOT, AND PROVIDE POSITIVE DRAINAGE.
3. BACK SLOPES SHALL BE 2X THE PRIMARY SLOPE.
4. INSULATION THICKNESSES SHALL BE COORDINATED WITH AND MATCH NAILER THICKNESSES AND ADJACENT INSULATION THICKNESSES WITHIN A 1/4" TOLERANCE IN ALL DIRECTIONS.
5. 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".
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.
 - 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.



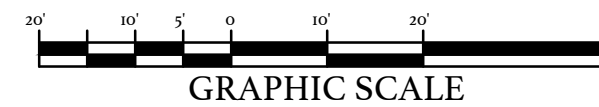
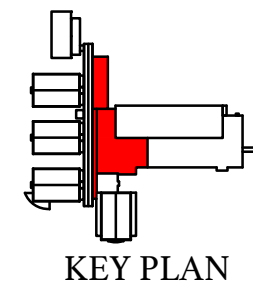
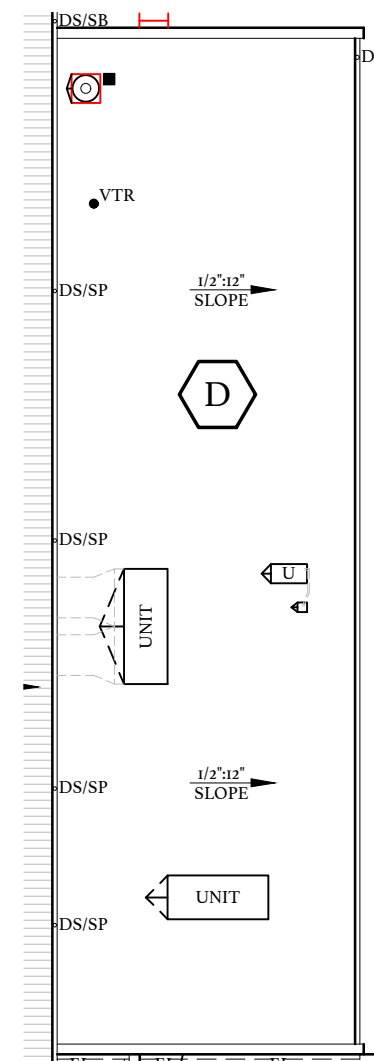
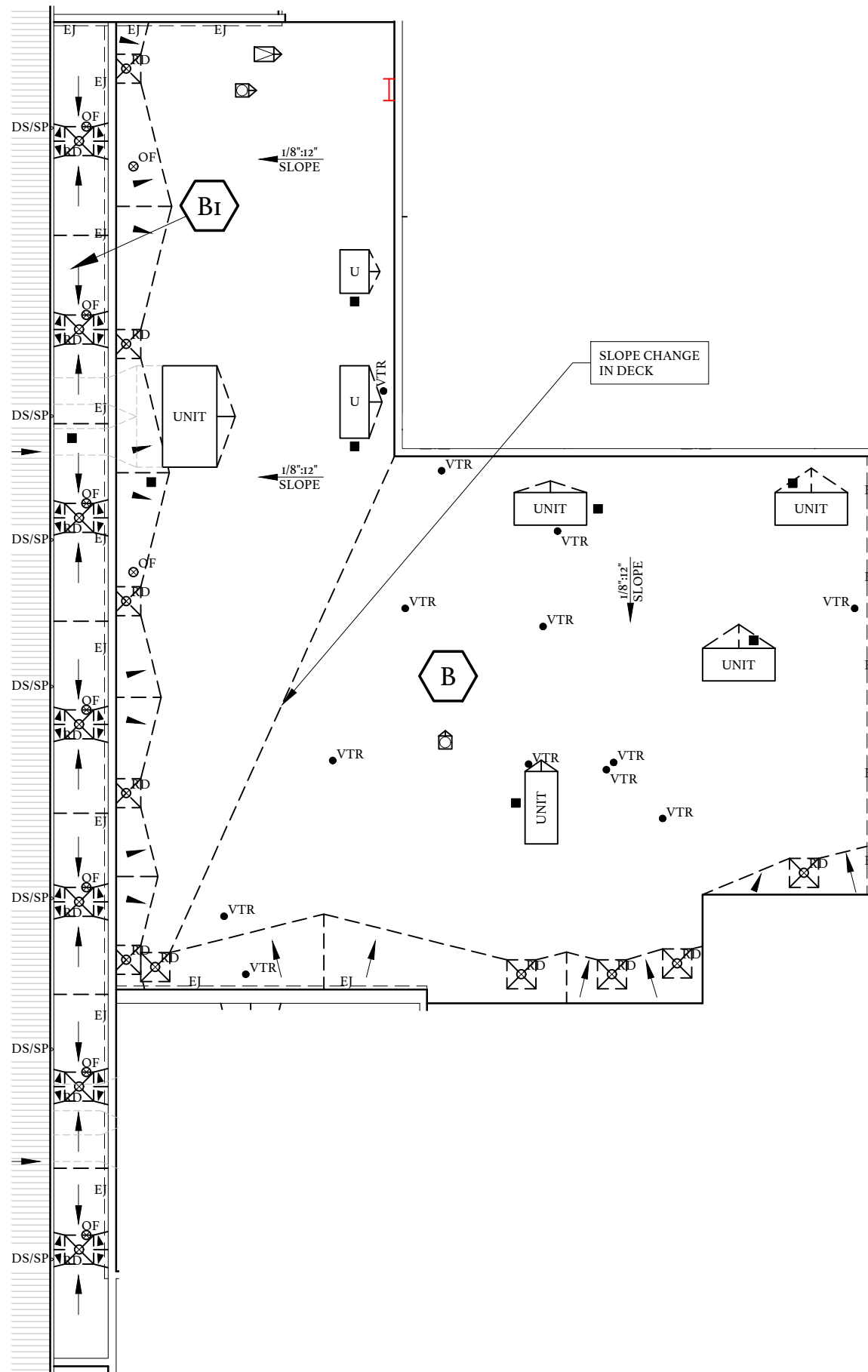
PLAN NORTH

**TAPER ROOF PLAN
AREAS A & C (BASE BID)**

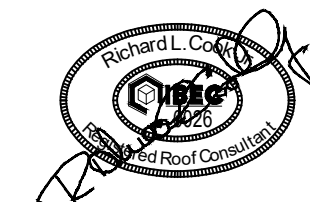
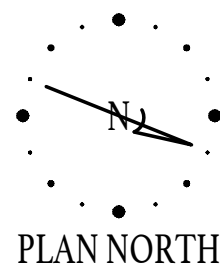
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TAPERED INSULATION NOTES

1. AS NOTED IN SPECIFICATIONS, THE PRIMARY SLOPE FOR INDICATED ROOF AREAS SHALL BE PROVIDED WITH TAPERED INSULATION FOR (ROOF AREA B_i).
 - A. TAPERED INSULATION FOR PRIMARY SLOPE SHALL BE 1/4 INCH PER FOOT FOR (ROOF AREA B_i).
2. THE PRIMARY SLOPE IS IN THE EXISTING DECK, EXCEPT AS NOTED OTHER WISE WHERE 2x PRIMARY SLOPE SHALL BE PROVIDED FOR (ROOF AREAS B & D).
3. SECONDARY SLOPE SHALL BE A MINIMUM 1/4" INCH PER FOOT, AND PROVIDE POSITIVE DRAINAGE.
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
AREAS B, B_i, & D (BASE BID)**



CENTRAL CAROLINA TECHNICAL COLLEGE
**F.E. DUBOSE CAMPUS
 ROOF REPLACEMENT**
 OWNER PROJECT NUMBER: H59-6775-PD
 BEE PROJECT NUMBER: 21066
 3351 SUMTER HWY
 MANNING, SOUTH CAROLINA

DATE:	06/01/2022
BEE PROJECT #:	21066
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	BSC/KAM
REVISION:	

**TAPER
 ROOF PLAN
 AREAS B, B_i, & D
 (BASE BID)**

R206

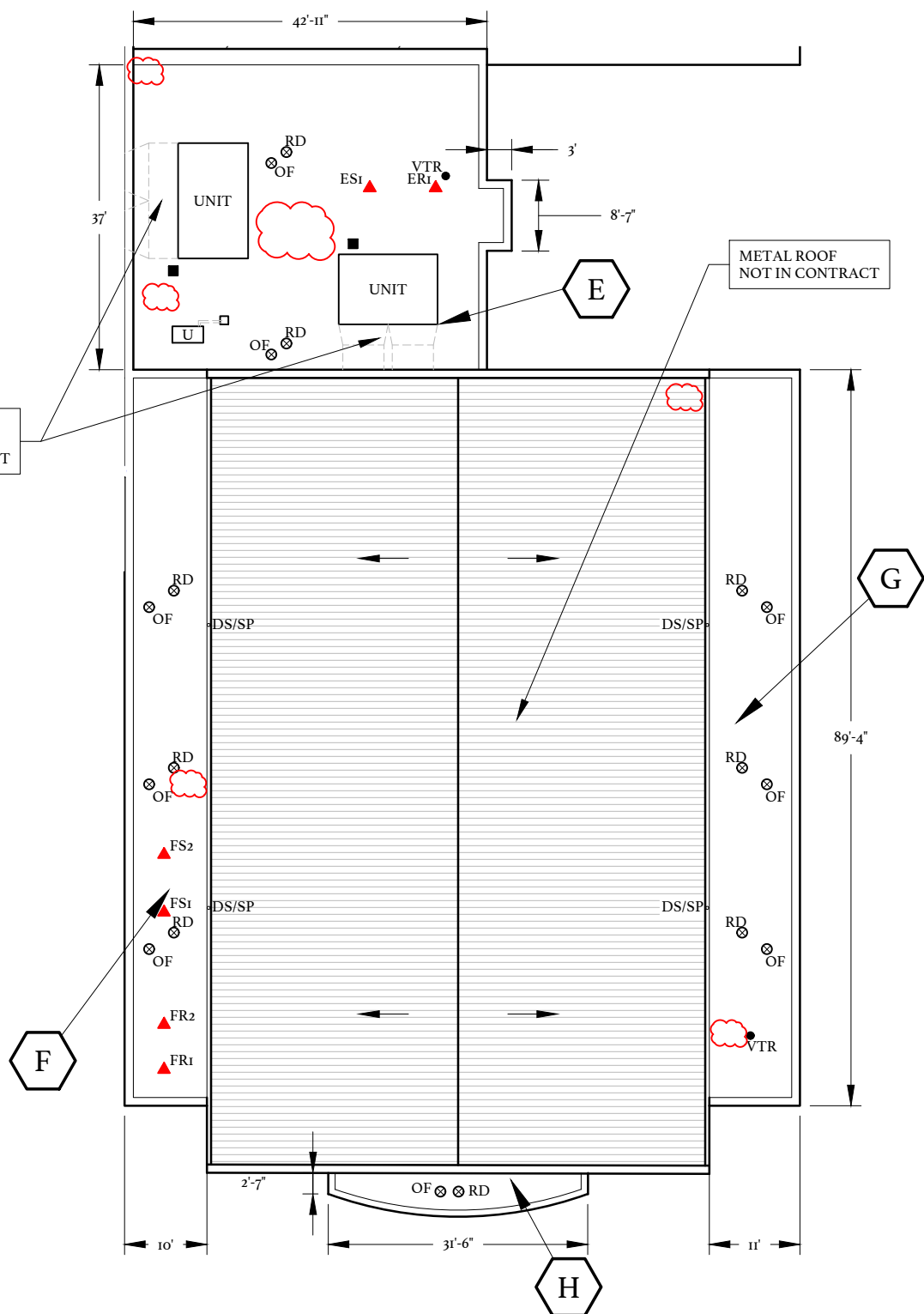
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CORE SAMPLE SUMMARY

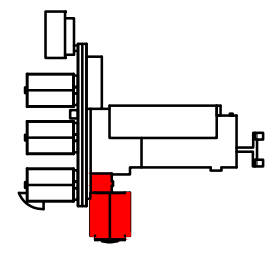
- A. CORE SAMPLE SUMMARIES ARE PROVIDED AS GENERAL INFORMATION ONLY. IT IS THE CONTRACTORS' SOLE RESPONSIBILITY TO COLLECT THE NECESSARY FIELD DATA TO PREPARE THEIR BID.
- B. LOCATIONS OF THESE CORES ARE SHOWN ON THE EXISTING ROOF PLAN.

ITEM	DESCRIPTION
FR1-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE LWIC/GYPSUM DECK TOTAL THICKNESS= 5 1/2"
FR2-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE LWIC/GYPSUM DECK TOTAL THICKNESS= 4 1/2"
FS1-	TOTAL THICKNESS= 4 1/4"
FS2-	TOTAL THICKNESS= 5 1/4"
ER1-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE LWIC/GYPSUM DECK TOTAL THICKNESS= 3"
ES1-	TOTAL THICKNESS= 3"

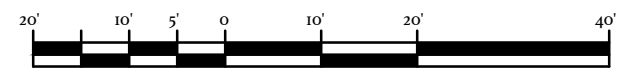
HVAC DUCT WORK IS ON / CLOSE TO EXISTING ROOF HEIGHT



METAL ROOF NOT IN CONTRACT

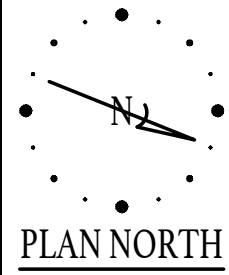


KEY PLAN

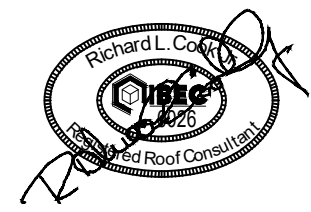


GRAPHIC SCALE

EXISTING ROOF PLAN
AREAS E, F, G, & H (ALT. #1)



PLAN NORTH



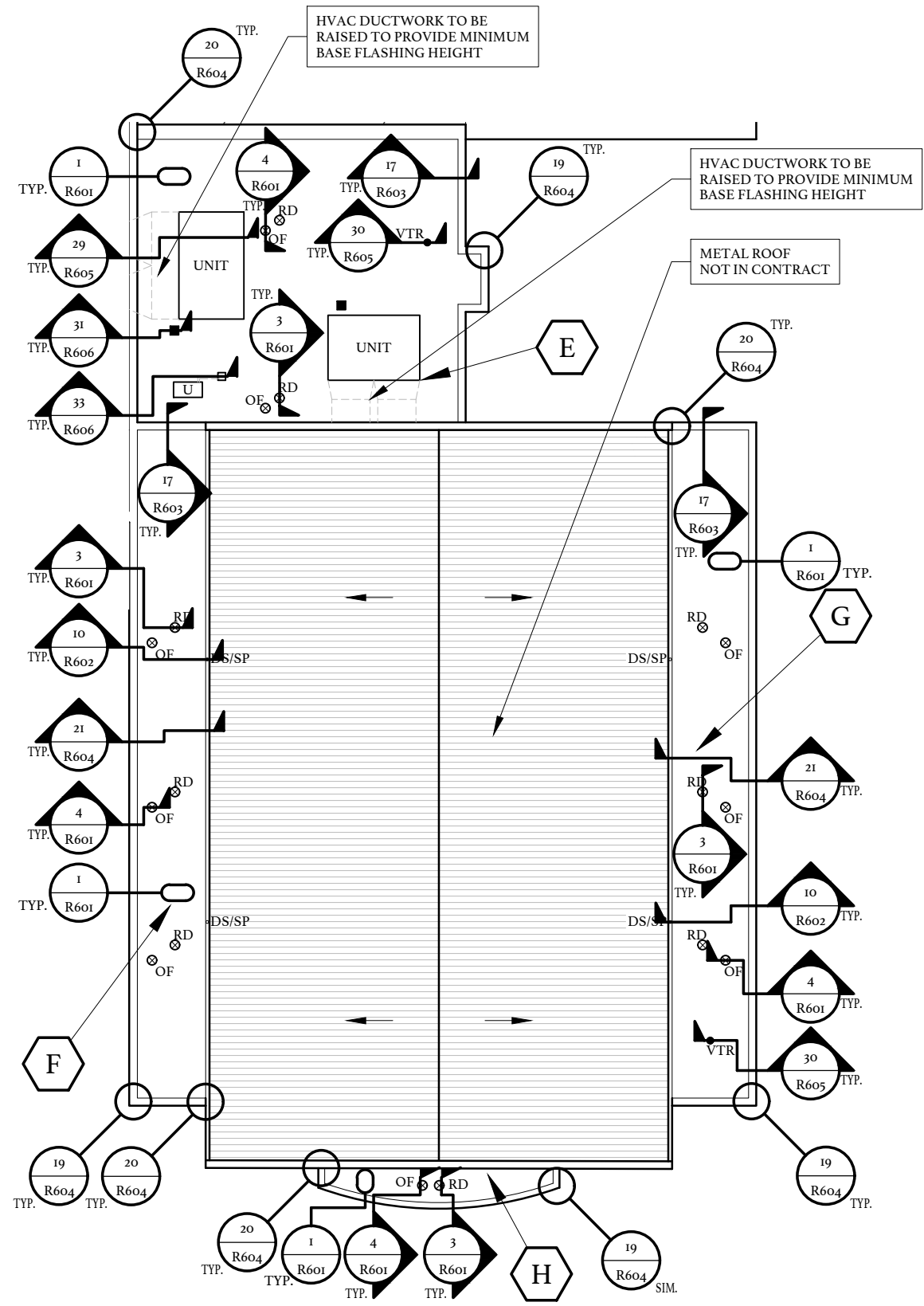
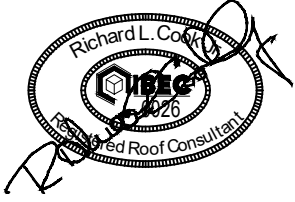
CENTRAL CAROLINA TECHNICAL COLLEGE
F.E. DUBOSE CAMPUS
ROOF REPLACEMENT

OWNER PROJECT NUMBER: H59-6775-PD
BEE PROJECT NUMBER: 21066
3351 SUMTER HWY
MANNING, SOUTH CAROLINA

DATE:	06/01/2022
BEE PROJECT #:	21066
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	BSC/KAM
REVISION:	

EXISTING ROOF PLAN
AREAS E, F, G, & H
(ALT. #1)

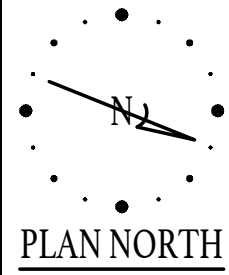
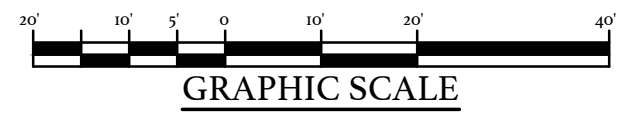
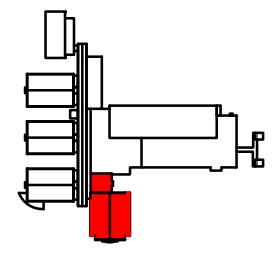
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NOTES:

- SUPPLY METAL SPLASH PANS WHERE DOWN SPOUTS DISCHARGE ONTO FLAT ROOF. SEE DETAIL 10/R602.

**NEW ROOF PLAN
AREAS E, F, G, & H (ALT. #1)**



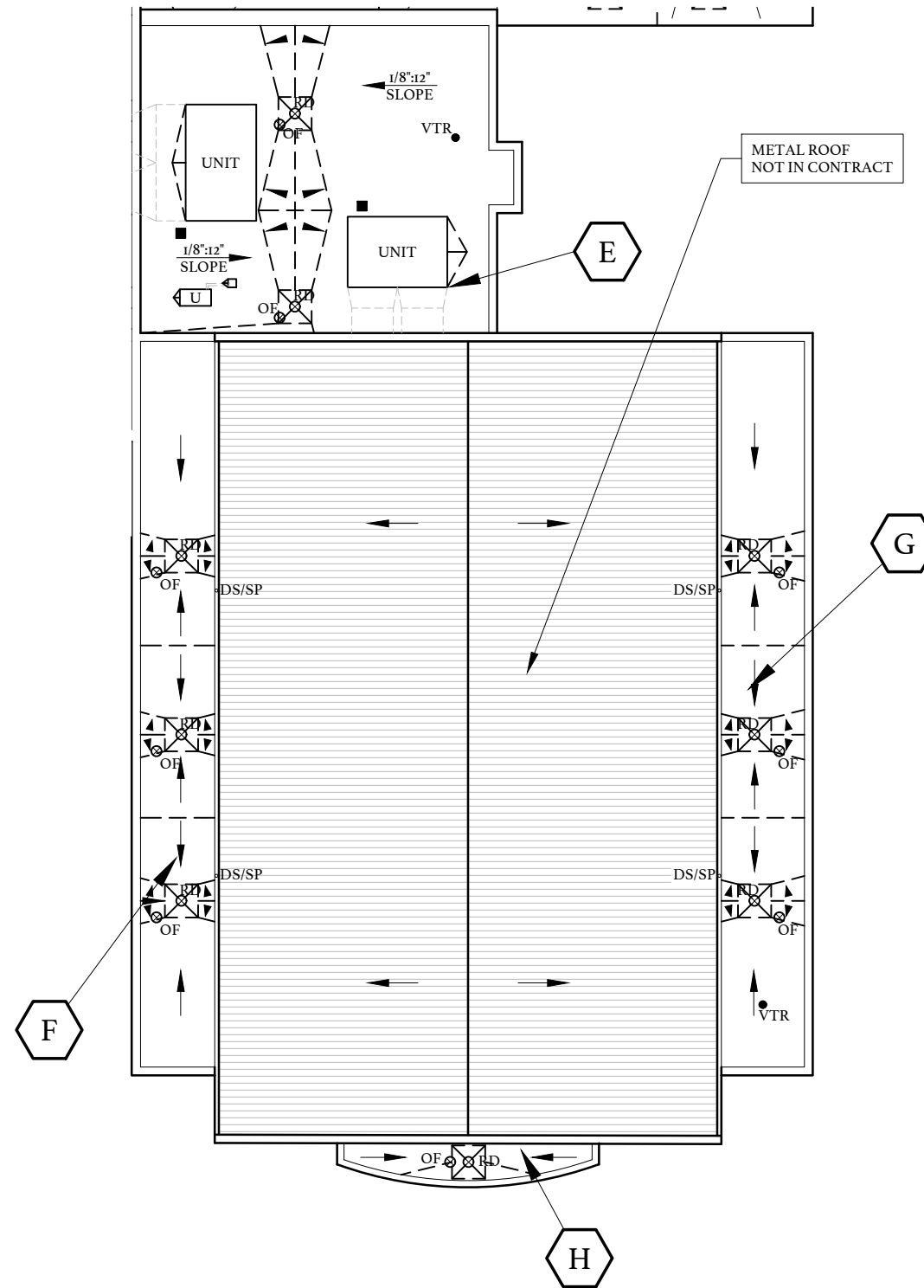
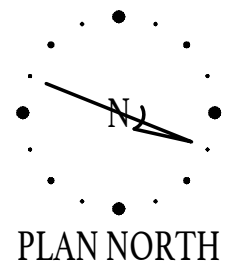
CENTRAL CAROLINA TECHNICAL COLLEGE
**F. E. DUBOSE CAMPUS
ROOF REPLACEMENT**

OWNER PROJECT NUMBER: H59-6775-PD
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3351 SUMTER HWY
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DATE:	06/01/2022
BEE PROJECT #:	21066
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REVISION:	

**NEW ROOF PLAN
AREAS E, F, G, & H
(ALT. #1)**

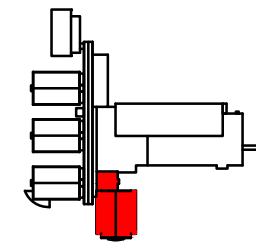
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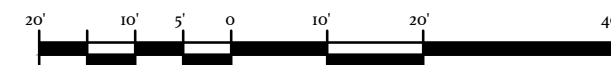
**TAPER ROOF PLAN
AREAS E, F, G, & H (ALT. #1)**

TAPERED INSULATION NOTES

1. AS NOTED IN SPECIFICATIONS, THE PRIMARY SLOPE FOR INDICATED ROOF AREAS SHALL BE PROVIDED WITH TAPERED INSULATION FOR (ROOF AREAS F, G, & H).
 - A. TAPERED INSULATION FOR PRIMARY SLOPE SHALL BE 1/4 INCH PER FOOT FOR (ROOF AREAS F, G, & H)
2. THE PRIMARY SLOPE IS IN THE EXISTING DECK, EXCEPT AS NOTED OTHERWISE WHERE 2x PRIMARY SLOPE SHALL BE PROVIDED FOR (ROOF AREA E).
3. SECONDARY SLOPE SHALL BE A MINIMUM 1/4" INCH PER FOOT, AND PROVIDE POSITIVE DRAINAGE.
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.



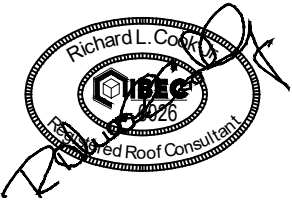
KEY PLAN



GRAPHIC SCALE



1226 YEAMANS HALL ROAD, STE C
HANAHAN, SC 29410



CENTRAL CAROLINA TECHNICAL COLLEGE
**F.E. DUBOSE CAMPUS
ROOF REPLACEMENT**

OWNER PROJECT NUMBER: H59-6775-PD
BEE PROJECT NUMBER: 21066
3351 SUMTER HWY
MANNING, SOUTH CAROLINA

DATE:	06/01/2022
BEE PROJECT #:	21066
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	BSC/KAM
REVISION:	

**TAPER
ROOF PLAN
AREAS E, F, G, & H
(ALT. #1)**

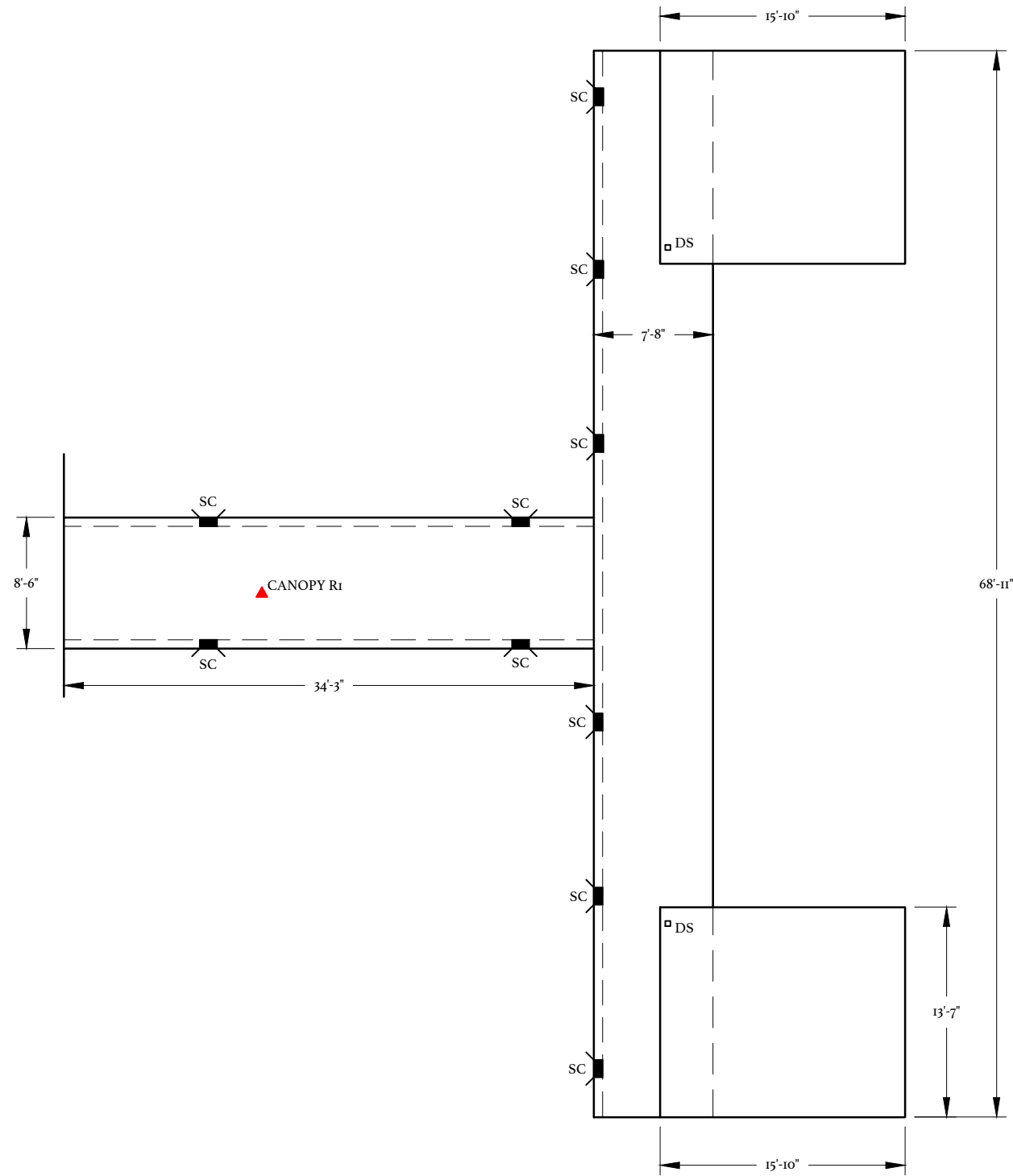
R303

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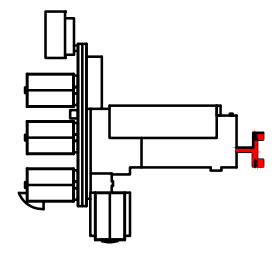
CORE SAMPLE SUMMARY

- 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.

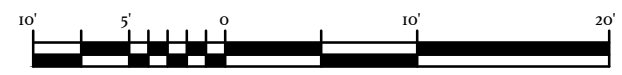
ITEM	DESCRIPTION
CANOPYR1-	GRAVEL SURFACED BUILT UP ROOF PERLITE BASE SHEET WOOD FIBER DECK TOTAL THICKNESS= 1"



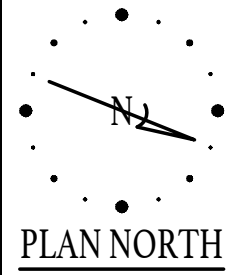
EXISTING ROOF PLAN
CANOPY (ALT. #2)



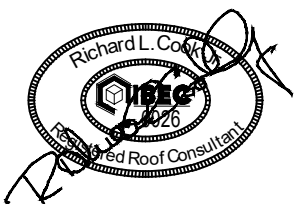
KEY PLAN



GRAPHIC SCALE



PLAN NORTH



CENTRAL CAROLINA TECHNICAL COLLEGE
F.E. DUBOSE CAMPUS
ROOF REPLACEMENT

OWNER PROJECT NUMBER: H59-6775-PD
BEE PROJECT NUMBER: 21066
3351 SUMTER HWY
MANNING, SOUTH CAROLINA

DATE:	06/01/2022
BEE PROJECT #:	21066
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	BSC/KAM
REVISION:	

EXISTING ROOF PLAN
CANOPY (ALT. #2)

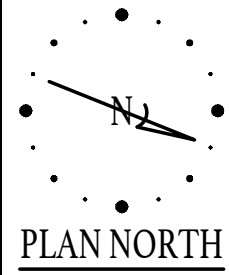
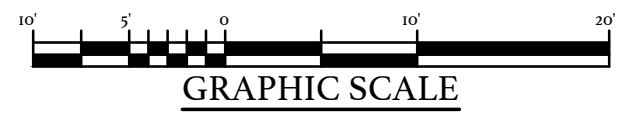
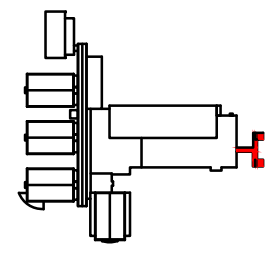
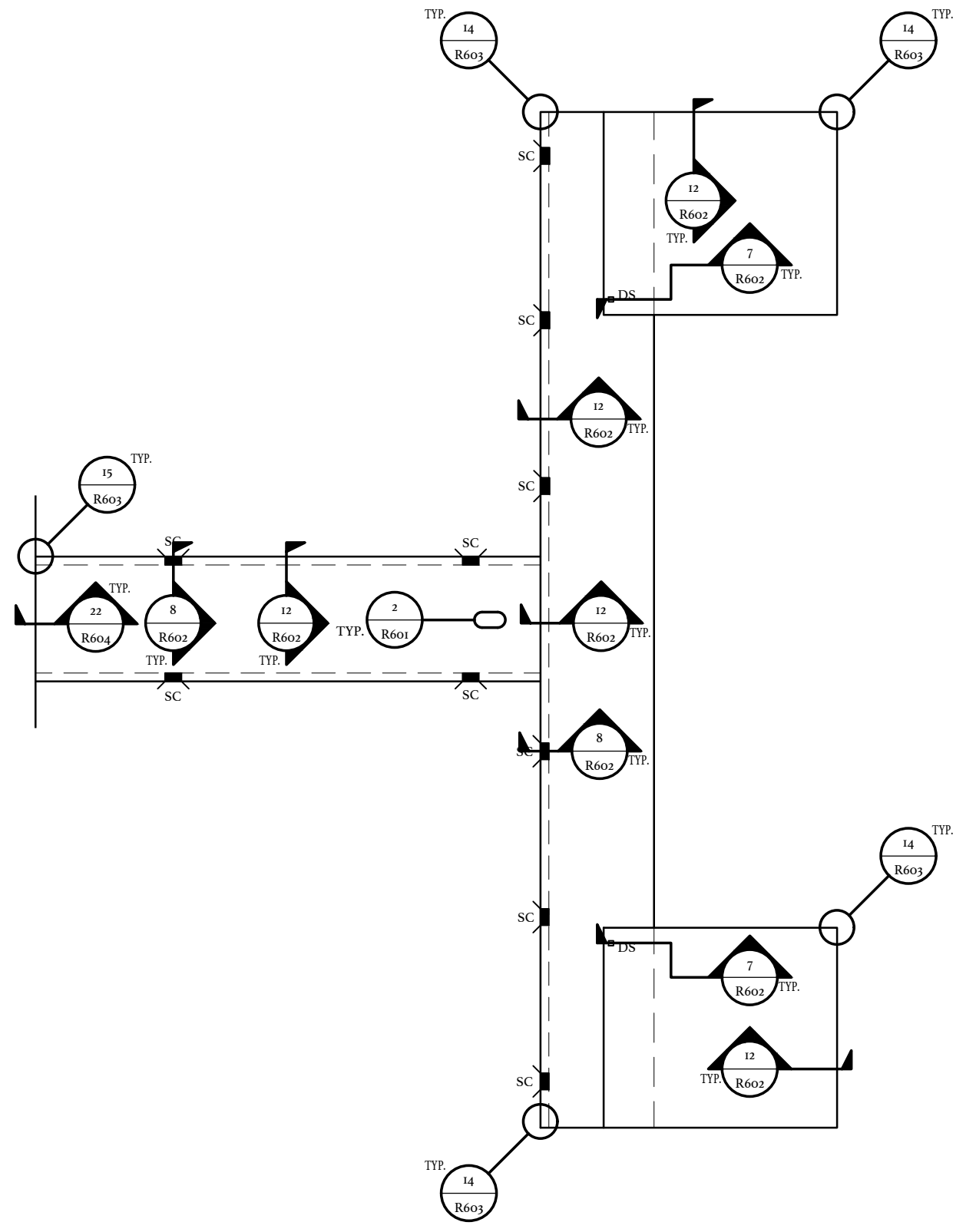
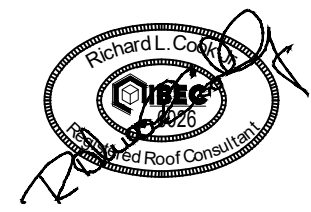
R401

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NOTES:
1. CANOPY AREA IS NOT ENVIRONMENTALLY CONTROLLED AND THUS DOES NOT REQUIRE AN R-VALUE OF R-20, JUST TAPERED INSULATION FOR ROOF DRAINAGE.



1226 YEAMANS HALL ROAD, STE C
HANAHAN, SC 29410



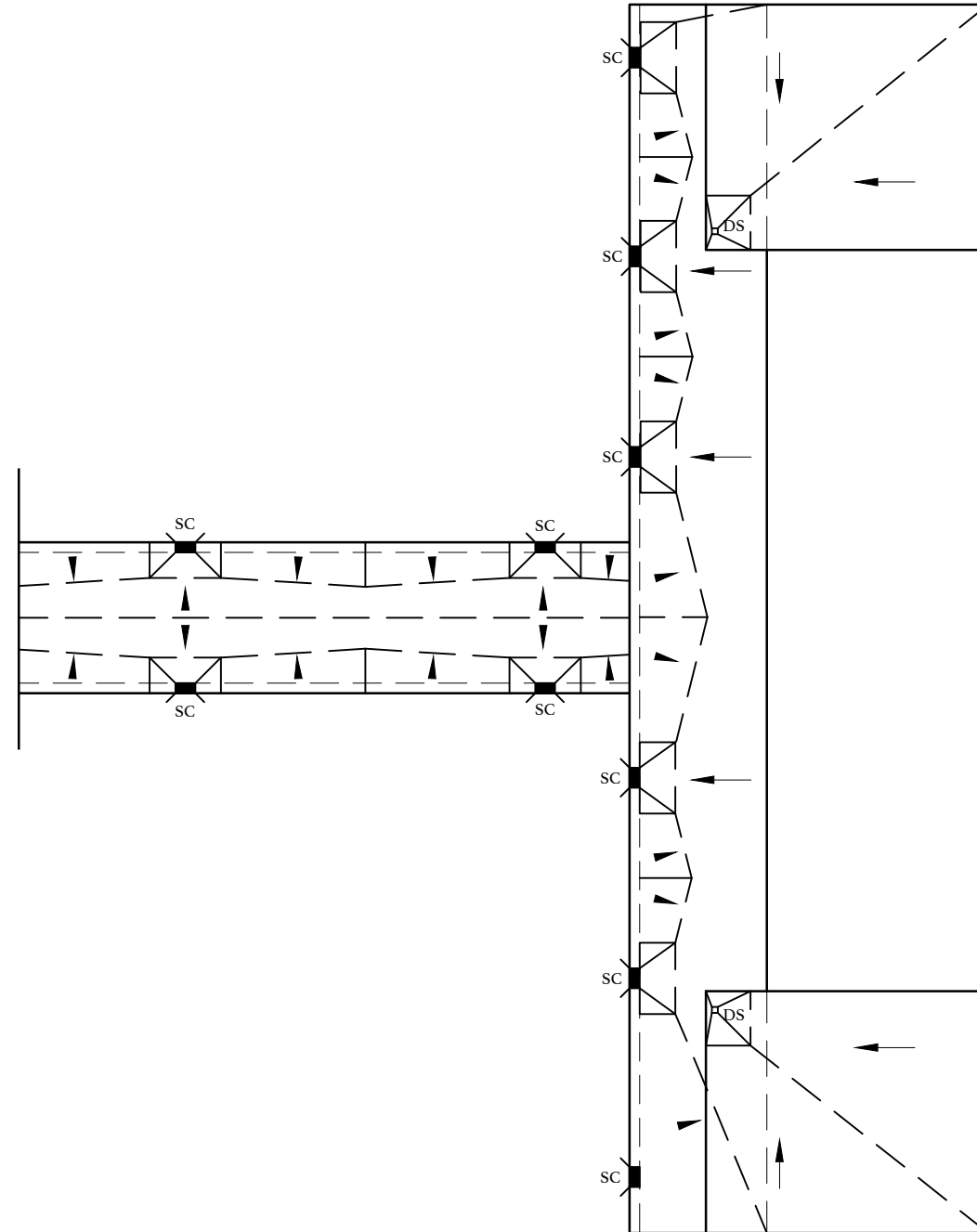
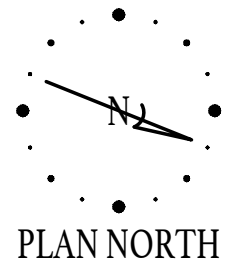
**NEW ROOF PLAN
CANOPY (ALT. #2)**

CENTRAL CAROLINA TECHNICAL COLLEGE
**F.E. DUBOSE CAMPUS
ROOF REPLACEMENT**
OWNER PROJECT NUMBER: H59-6775-PD
BEE PROJECT NUMBER: 21066
3351 SUMTER HWY
MANNING, SOUTH CAROLINA

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REVISION:	

**NEW
ROOF PLAN
CANOPY
(ALT. #2)**

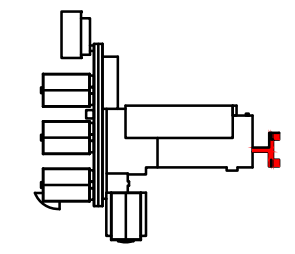
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**TAPER ROOF PLAN
CANOPY (ALT. #2)**

TAPERED INSULATION NOTES

1. AS NOTED IN SPECIFICATIONS, THE PRIMARY SLOPE FOR INDICATED ROOF AREAS SHALL BE PROVIDED WITH TAPERED INSULATION.
 - A. TAPERED INSULATION FOR PRIMARY SLOPE SHALL BE 1/4 INCH PER FOOT.
 - B. NO MINIMUM R VALUE, JUST TAPERED INSULATION FOR ROOF DRAINAGE.
2. SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS) SHALL PROVIDE A MINIMUM SLOPE AS SPECIFIED FOR ALL ROOF AREAS.
 - A. SECONDARY SLOPE SHALL BE A MINIMUM 1/4" INCH PER FOOT, AND PROVIDE POSITIVE DRAINAGE.
3. BACK SLOPES SHALL BE 2X THE PRIMARY SLOPE.
4. INSULATION THICKNESSES SHALL BE COORDINATED WITH AND MATCH NAILER THICKNESSES AND ADJACENT INSULATION THICKNESSES WITHIN A 1/4" TOLERANCE IN ALL DIRECTIONS.
5. 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".
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.
 - 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.



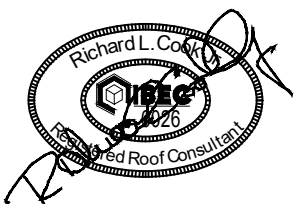
KEY PLAN



GRAPHIC SCALE



1226 YEAMANS HALL ROAD, STE C
HANAHAN, SC 29410



CENTRAL CAROLINA TECHNICAL COLLEGE

**F.E. DUBOSE CAMPUS
ROOF REPLACEMENT**

OWNER PROJECT NUMBER: H59-6775-PD
BEE PROJECT NUMBER: 21066

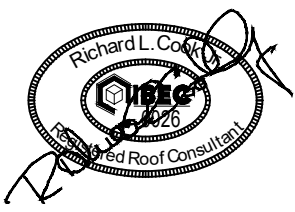
3351 SUMTER HWY
MANNING, SOUTH CAROLINA

DATE:	06/01/2022
BEE PROJECT #:	21066
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	BSC/KAM
REVISION:	

**TAPER
ROOF PLAN
CANOPY
(ALT. #2)**

R403

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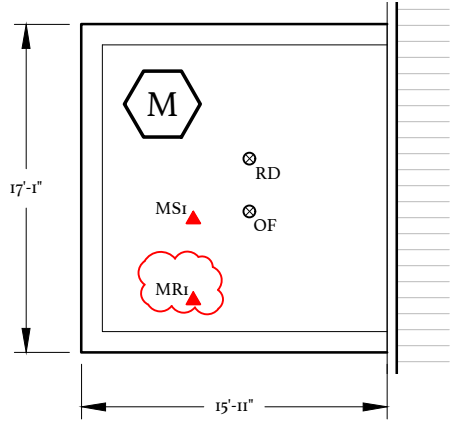
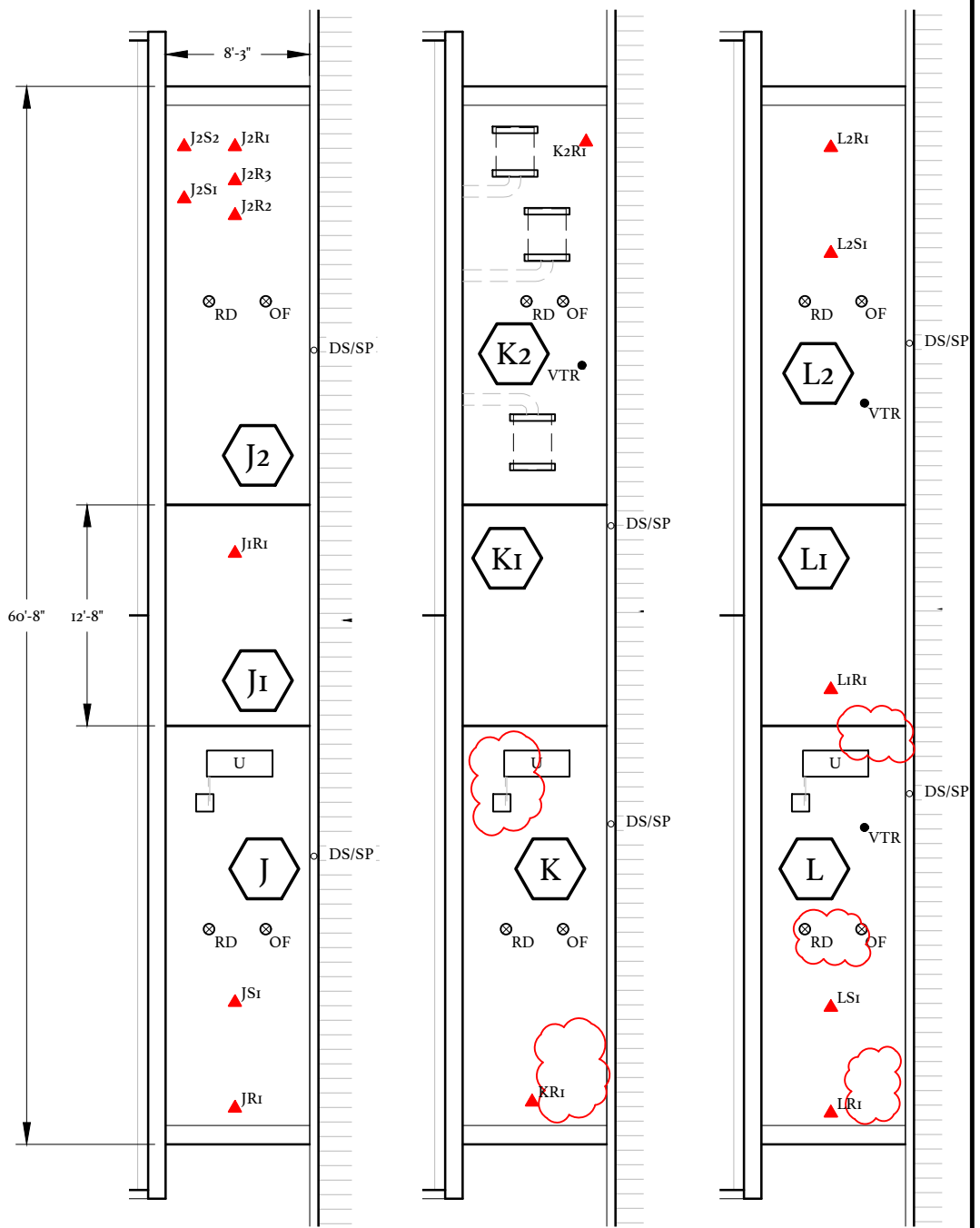
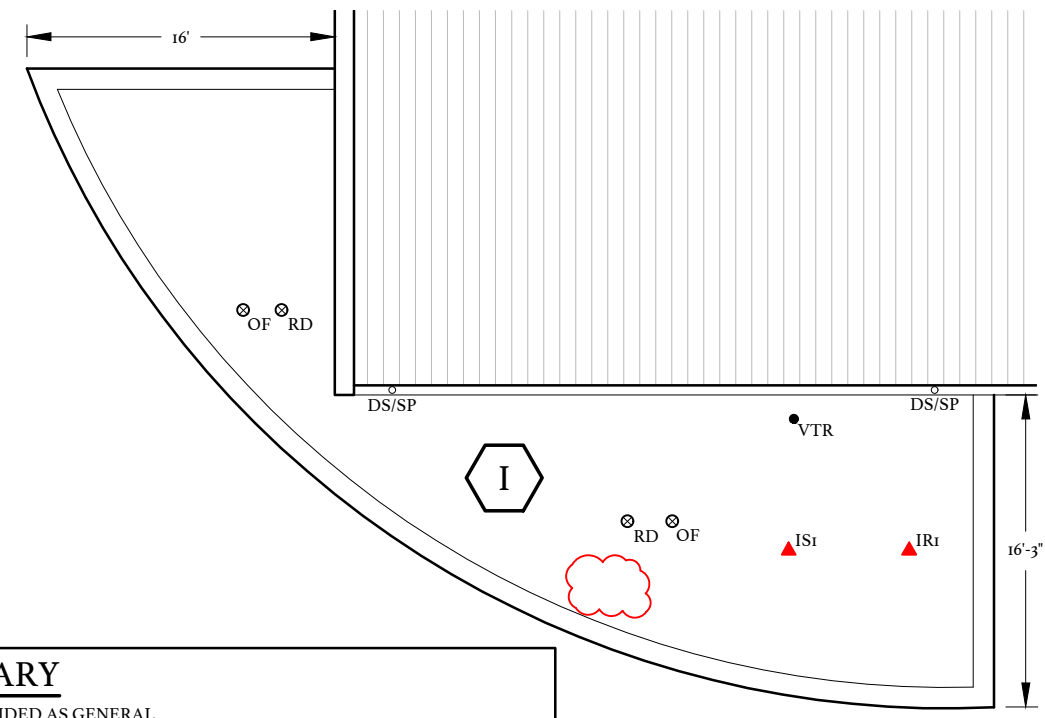


CENTRAL CAROLINA TECHNICAL COLLEGE
F. E. DUBOSE CAMPUS
ROOF REPLACEMENT

OWNER PROJECT NUMBER: H59-6775-PD
BEE PROJECT NUMBER: 21066
3351 SUMTER HWY
MANNING, SOUTH CAROLINA

DATE: 06/01/2022
BEE PROJECT #: 21066
DESIGNED: RLC
CHECKED: JCG
DRAWN: BSC/KAM
REVISION:

EXISTING ROOF PLAN AREAS I, J, J1, J2, K, K1, K2, L, L1, L2, & M (ALT. #3)

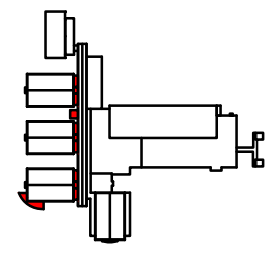


CORE SAMPLE SUMMARY

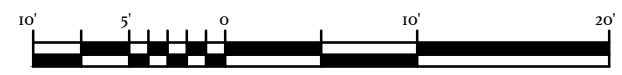
- A. CORE SAMPLE SUMMARIES ARE PROVIDED AS GENERAL INFORMATION ONLY. IT IS THE CONTRACTORS' SOLE RESPONSIBILITY TO COLLECT THE NECESSARY FIELD DATA TO PREPARE THEIR BID.
- B. LOCATIONS OF THESE CORES ARE SHOWN ON THE EXISTING ROOF PLAN.

ITEM	DESCRIPTION	ITEM	DESCRIPTION
IR1-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE BASE SHEET LWIC/GYPSUM DECK TOTAL THICKNESS = 4 3/4"	J2S2-	TOTAL THICKNESS = 5"
IS1-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE BASE SHEET LWIC/GYPSUM DECK TOTAL THICKNESS = 4 1/4"	KR1-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE BASE SHEET LWIC/GYPSUM DECK TOTAL THICKNESS = 4 1/2"
JR1-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE BASE SHEET LWIC/GYPSUM DECK TOTAL THICKNESS = 4 3/4"	K2R1-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE BASE SHEET LWIC/GYPSUM DECK TOTAL THICKNESS = 4 1/4"
JS1-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE BASE SHEET LWIC/GYPSUM DECK TOTAL THICKNESS = 4"	LR1-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE BASE SHEET LWIC/GYPSUM DECK TOTAL THICKNESS = 5"
J1R1-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE BASE SHEET LWIC/GYPSUM DECK TOTAL THICKNESS = 4"	L1R1-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE BASE SHEET LWIC/GYPSUM DECK TOTAL THICKNESS = 4"
J2R1-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE BASE SHEET LWIC/GYPSUM DECK TOTAL THICKNESS = 4"	L2R1-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE BASE SHEET LWIC/GYPSUM DECK TOTAL THICKNESS = 4 1/2"
J2R2-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE BASE SHEET LWIC/GYPSUM DECK TOTAL THICKNESS = 4"	L2S1-	TOTAL THICKNESS = 4 1/2"
J2R3-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE BASE SHEET LWIC/GYPSUM DECK TOTAL THICKNESS = 4 1/4"	MR1-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE BASE SHEET LWIC/GYPSUM DECK TOTAL THICKNESS = 4 1/2"
J2S1-	TOTAL THICKNESS = 4 1/2"	MS1-	TOTAL THICKNESS = 4"

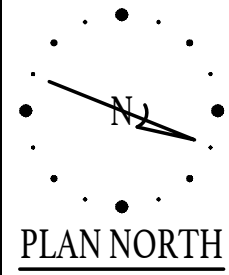
EXISTING ROOF PLAN AREAS I, J, J1, J2, K, K1, K2, L, L1, L2, & M (ALT. #3)



KEY PLAN



GRAPHIC SCALE

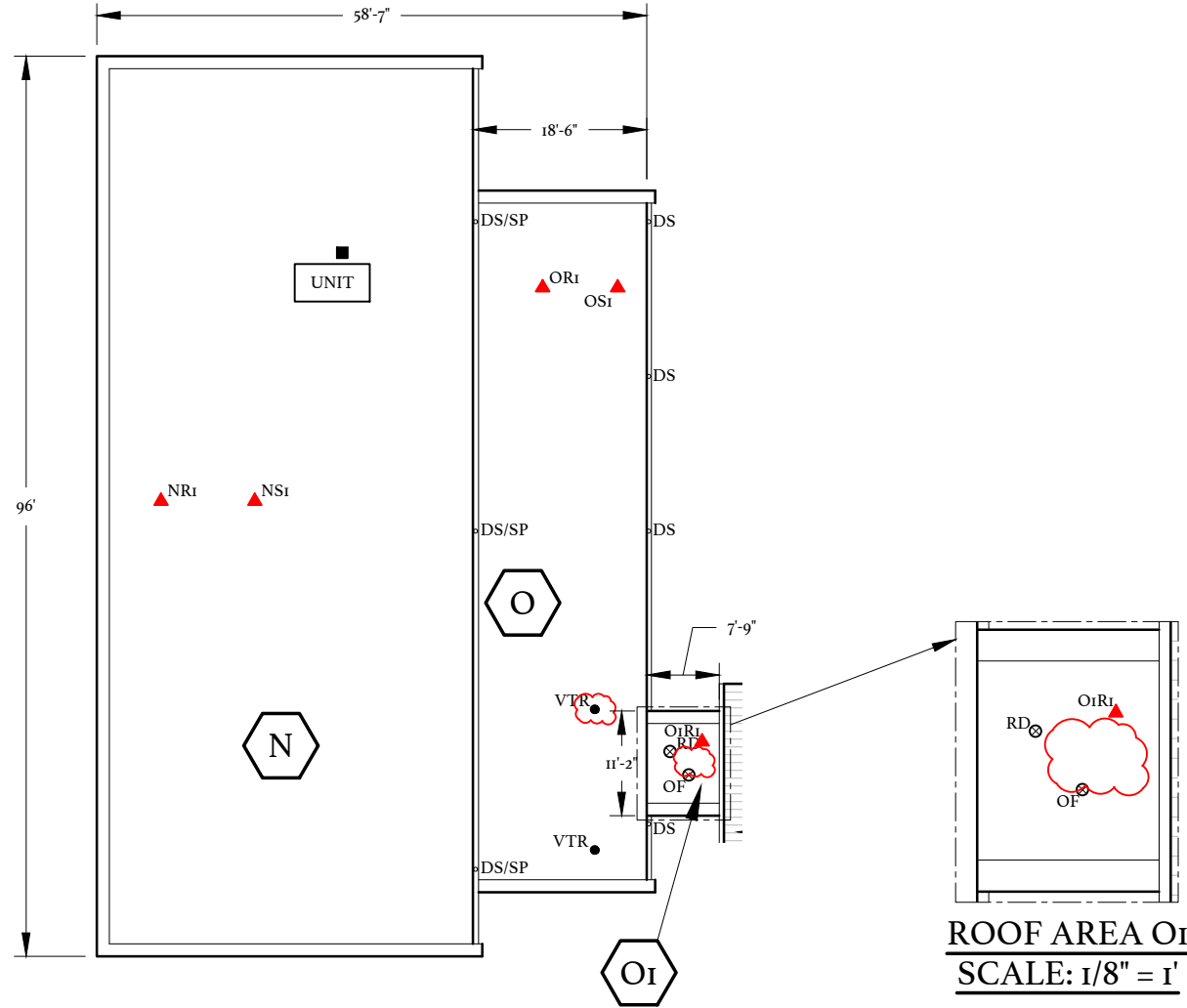


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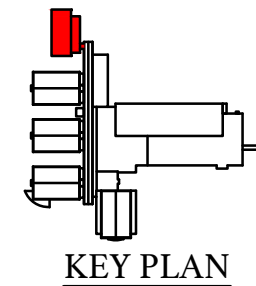
CORE SAMPLE SUMMARY

- 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.

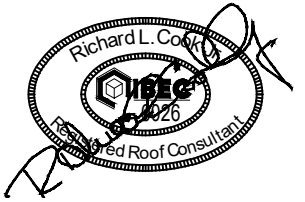
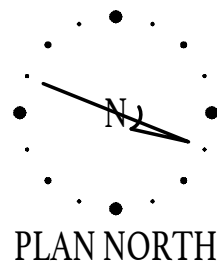
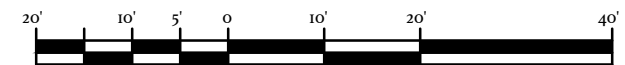
ITEM	DESCRIPTION
NRi-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE POLYISOCYANURATE LWIC/GYPSUM OVER METAL TOTAL THICKNESS= 5"
NSi-	TOTAL THICKNESS= 5"
ORi-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE LWIC/GYPSUM DECK TOTAL THICKNESS= 3 1/2"
OSi-	TOTAL THICKNESS= 3 1/2"
OiRi-	GRAVEL SURFACED BUILT UP ROOF PERLITE POLYISOCYANURATE LWIC/GYPSUM DECK TOTAL THICKNESS= 4"



**EXISTING ROOF PLAN
AREAS N, O, & Oi (ALT. #3)**



**KEY PLAN
GRAPHIC SCALE**



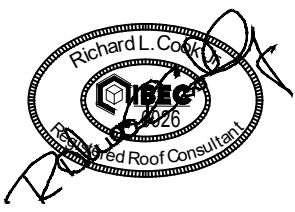
CENTRAL CAROLINA TECHNICAL COLLEGE
**F. E. DUBOSE CAMPUS
ROOF REPLACEMENT**

OWNER PROJECT NUMBER: H59-6775-PD
BEE PROJECT NUMBER: 21066
3351 SUMTER HWY
MANNING, SOUTH CAROLINA

DATE:	06/01/2022
BEE PROJECT #:	21066
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	BSC/KAM
REVISION:	

**EXISTING
ROOF PLAN
AREAS N, O, & Oi
(ALT. #3)**

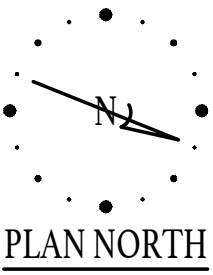
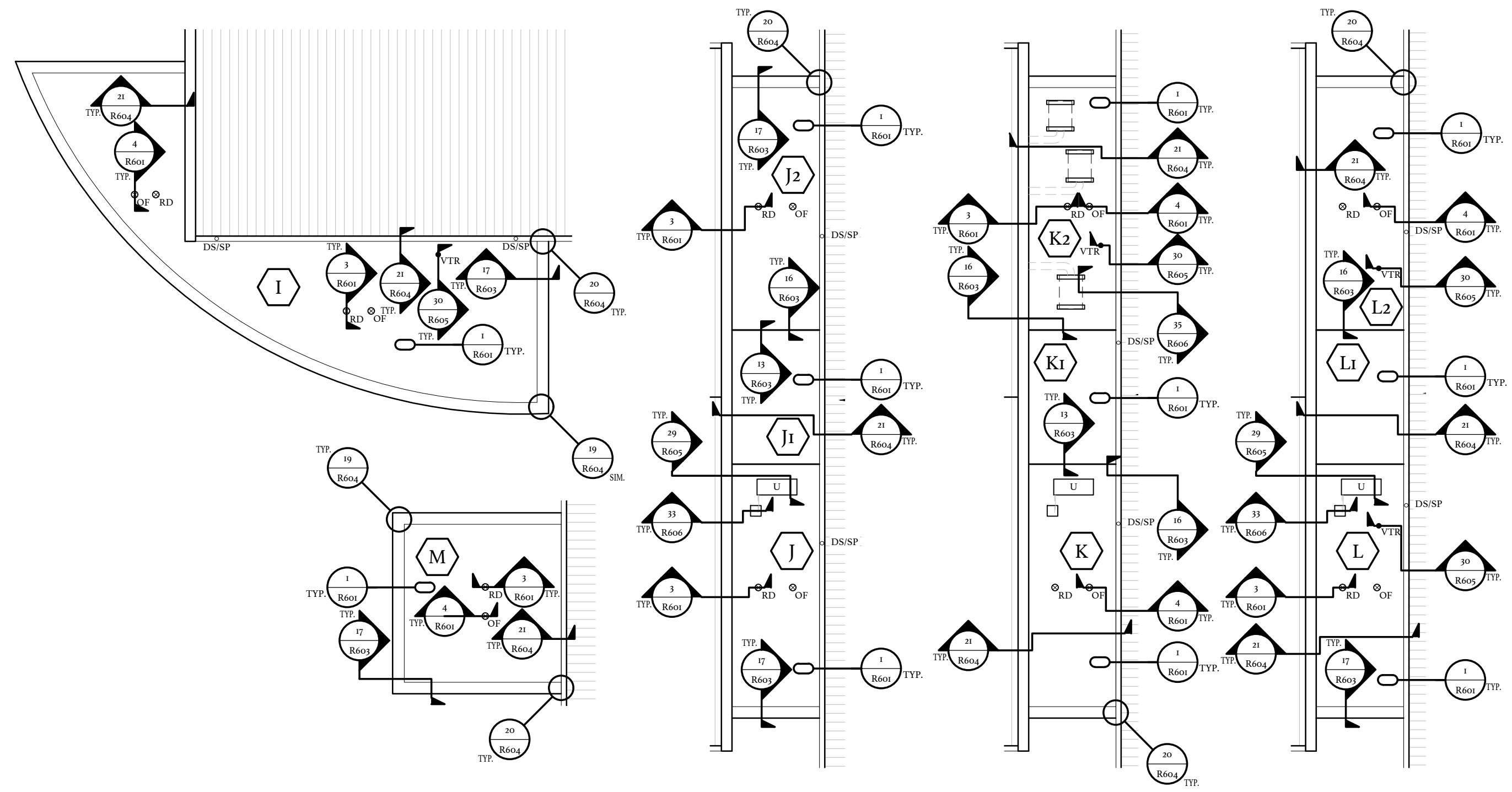
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CENTRAL CAROLINA TECHNICAL COLLEGE
F. E. DUBOSE CAMPUS
ROOF REPLACEMENT
OWNER PROJECT NUMBER: H59-6775-PD
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MANNING, SOUTH CAROLINA

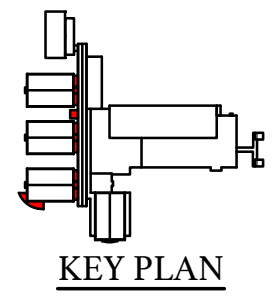
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REVISION:	

NEW
ROOF PLAN AREAS
I, J, J1, J2, K, K1, K2,
L, L1, L2, & M
(ALT. #3)



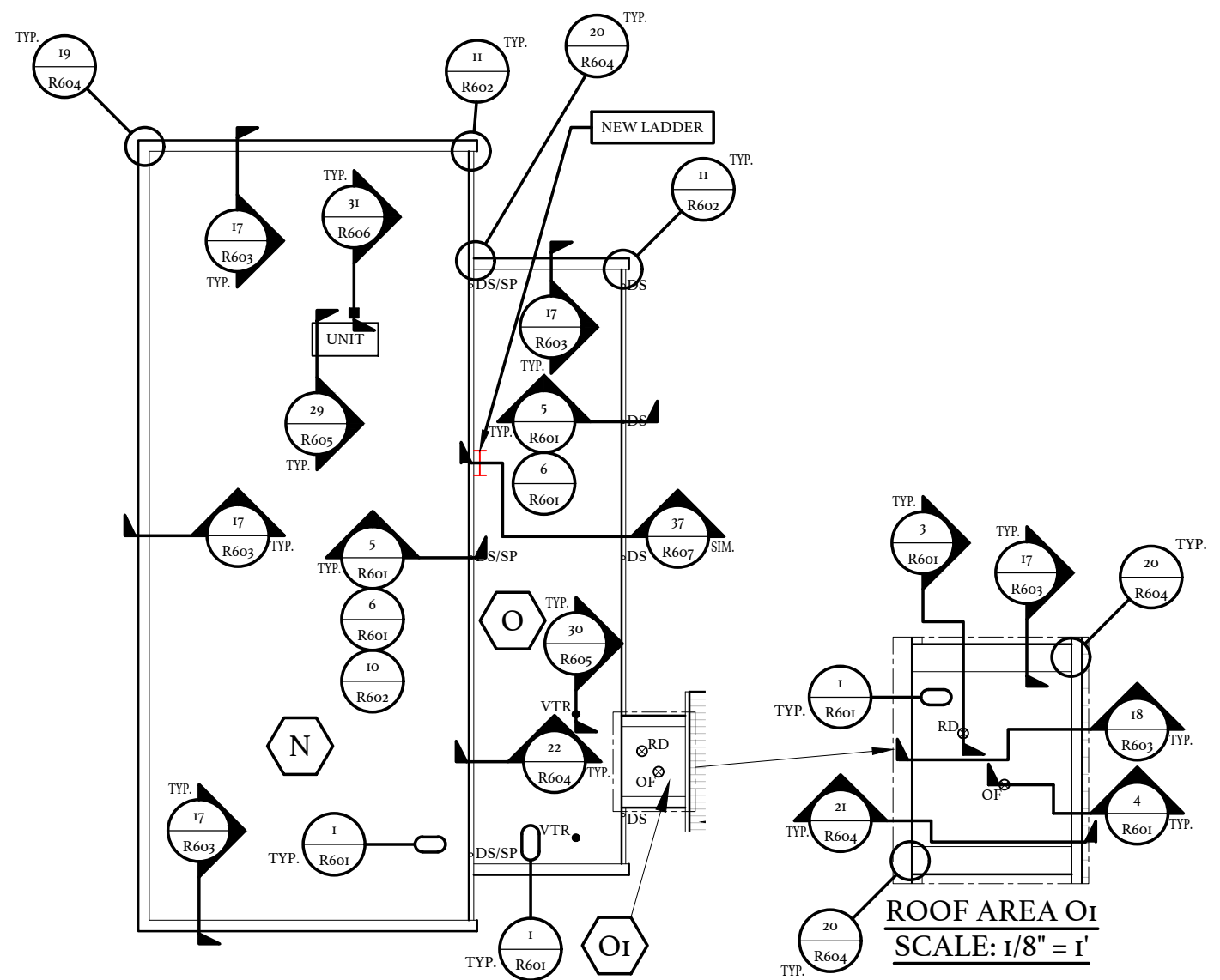
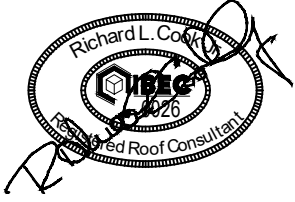
NOTES:
1. SUPPLY METAL SPLASH PANS WHERE DOWN SPOUTS DISCHARGE ONTO FLAT ROOF. SEE DETAIL 10/R602.

NEW ROOF PLAN AREAS I, J, J1, J2, K, K1, K2, L, L1, L2, & M (ALT. #3)



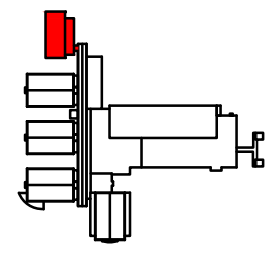
GRAPHIC SCALE
10' 5' 0' 10' 20'

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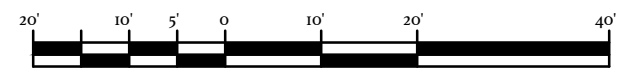


- NOTES:**
- SUPPLY NEW SPLASH BLOCKS TO BE PROVIDED AT GRADE DOWN SPOUTS.
 - SUPPLY METAL SPLASH PANS WHERE DOWN SPOUTS DISCHARGE ONTO FLAT ROOF. SEE DETAIL 10/R602.

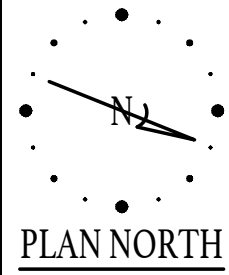
**NEW ROOF PLAN
AREAS N, O, & OI (ALT. #3)**



KEY PLAN



GRAPHIC SCALE



CENTRAL CAROLINA TECHNICAL COLLEGE
F. E. DUBOSE CAMPUS
ROOF REPLACEMENT

OWNER PROJECT NUMBER: H59-6775-PD
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3351 SUMTER HWY
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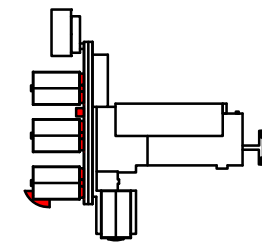
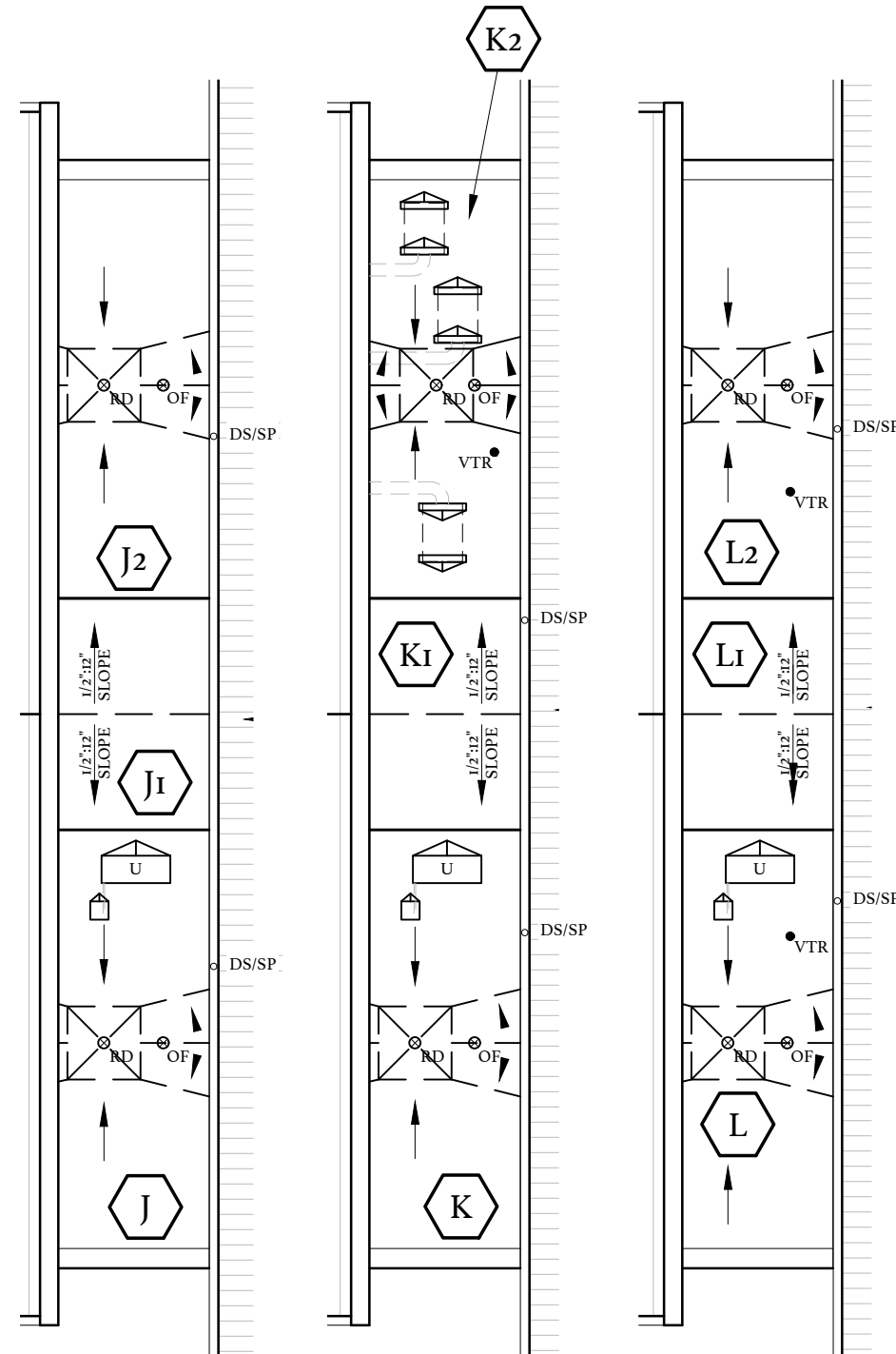
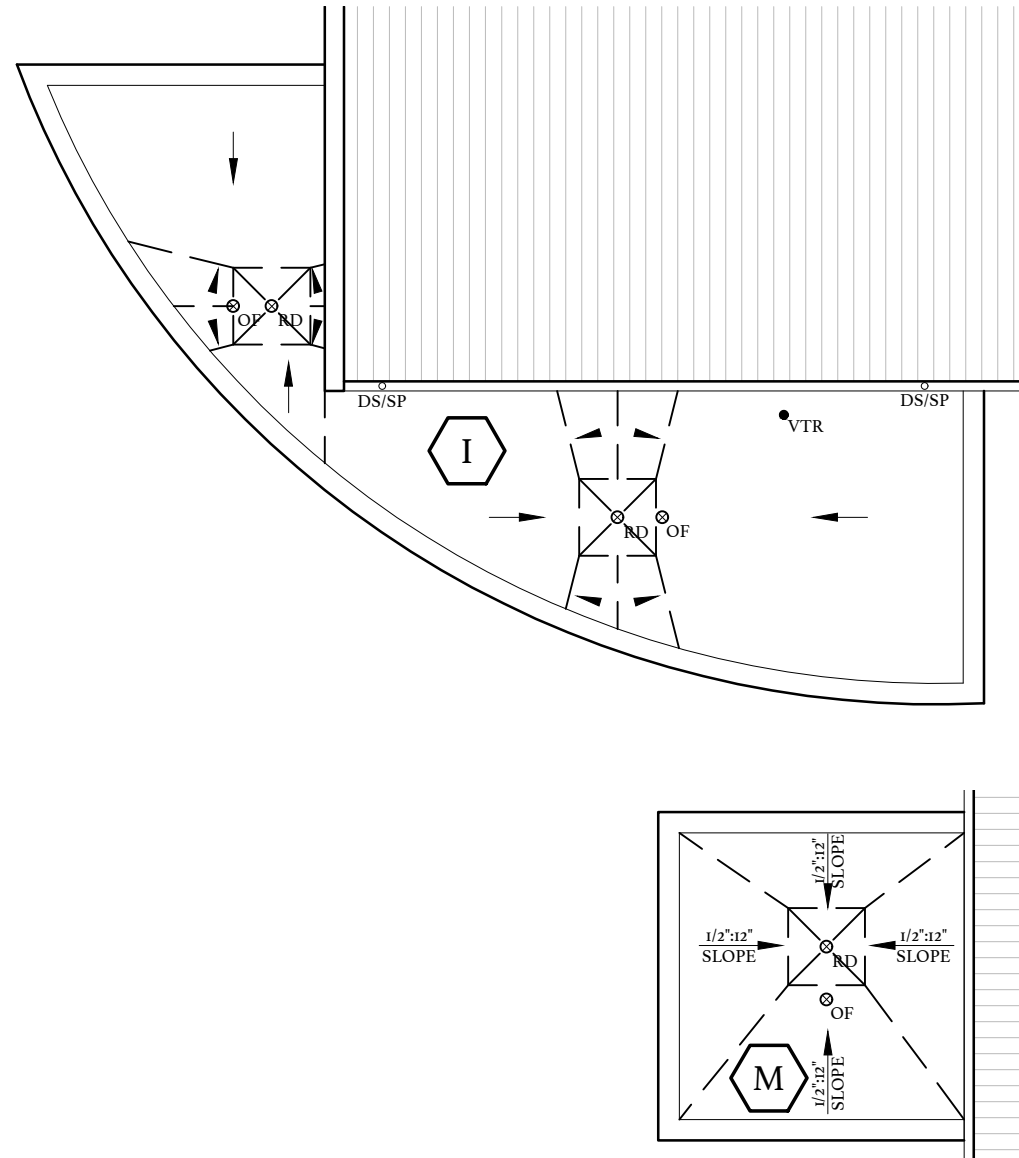
**NEW ROOF PLAN
AREAS N, O, & OI
(ALT. #3)**

R504

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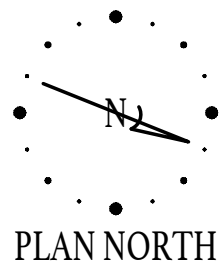
TAPERED INSULATION NOTES

1. THE PRIMARY SLOPE IS IN THE EXISTING DECK, EXCEPT AS NOTED OTHER WISE WHERE 2x PRIMARY SLOPE SHALL BE PROVIDED.
2. SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS) SHALL PROVIDE A MINIMUM SLOPE AS SPECIFIED FOR ALL ROOF AREAS.
 - A. SECONDARY SLOPE SHALL BE A MINIMUM 1/4" INCH PER FOOT, AND PROVIDE POSITIVE DRAINAGE.
3. BACK SLOPES SHALL BE 2x THE PRIMARY SLOPE.
4. INSULATION THICKNESSES SHALL BE COORDINATED WITH AND MATCH NAILER THICKNESSES AND ADJACENT INSULATION THICKNESSES WITHIN A 1/4" TOLERANCE IN ALL DIRECTIONS.
5. 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".
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.
 - 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.

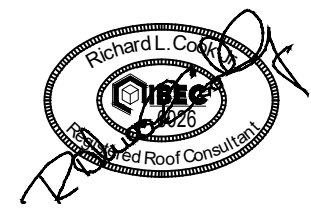


KEY PLAN
GRAPHIC SCALE

TAPER ROOF PLAN AREAS I, J, J1, J2, K, K1, K2, L, L1, L2, & M (ALT. #3)



PLAN NORTH



CENTRAL CAROLINA TECHNICAL COLLEGE
F.E. DUBOSE CAMPUS
ROOF REPLACEMENT

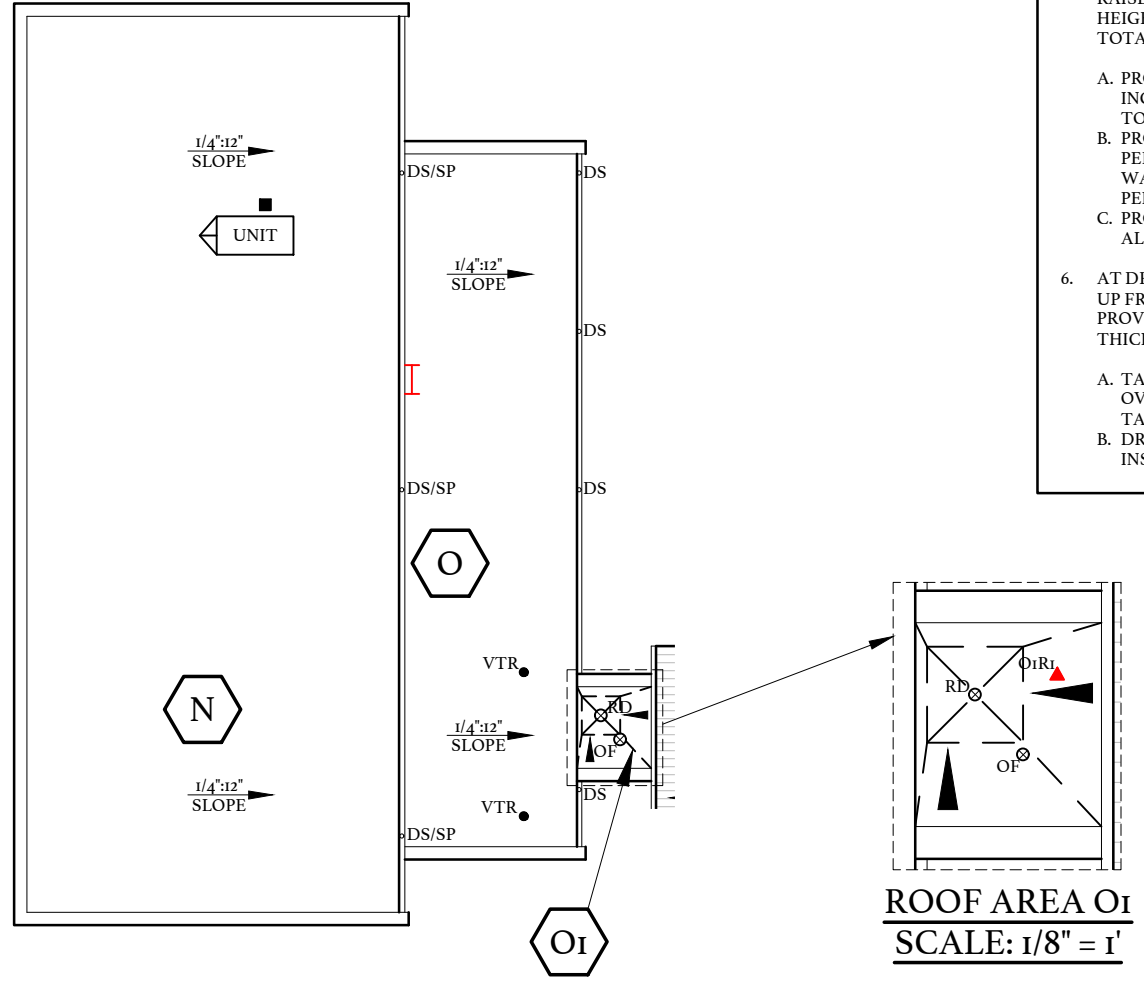
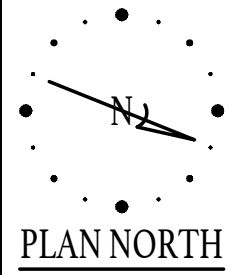
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DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	BSC/KAM
REVISION:	

TAPER
ROOF PLAN AREAS
I, J, J1, J2, K, K1, K2,
L, L1, L2, & M
(ALT. #3)

R505

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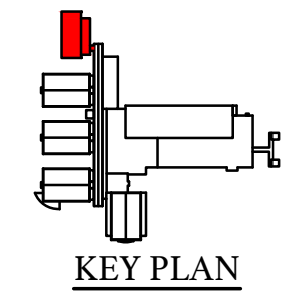


**TAPER ROOF PLAN
AREAS N, O, & OI (ALT. #3)**

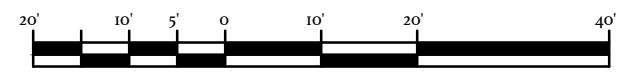
TAPERED INSULATION NOTES

1. THE PRIMARY SLOPE IS IN THE EXISTING DECK, EXCEPT AS NOTED OTHER WISE WHERE 2x PRIMARY SLOPE SHALL BE PROVIDED.
2. SECONDARY SLOPE (CRICKETS, SADDLES, SUMPS) SHALL PROVIDE A MINIMUM SLOPE AS SPECIFIED FOR ALL ROOF AREAS.
 - A. SECONDARY SLOPE SHALL BE A MINIMUM 1/4" INCH PER FOOT, AND PROVIDE POSITIVE DRAINAGE.
3. BACK SLOPES SHALL BE 2X THE PRIMARY SLOPE.
4. INSULATION THICKNESSES SHALL BE COORDINATED WITH AND MATCH NAILER THICKNESSES AND ADJACENT INSULATION THICKNESSES WITHIN A 1/4" TOLERANCE IN ALL DIRECTIONS.
5. 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".
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.
 - 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.

**ROOF AREA OI
SCALE: 1/8" = 1'**



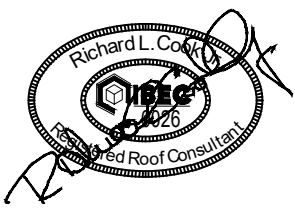
KEY PLAN



GRAPHIC SCALE



1226 YEAMANS HALL ROAD, STE C
HANAHAN, SC 29410



CENTRAL CAROLINA TECHNICAL COLLEGE
F.E. DUBOSE CAMPUS
ROOF REPLACEMENT

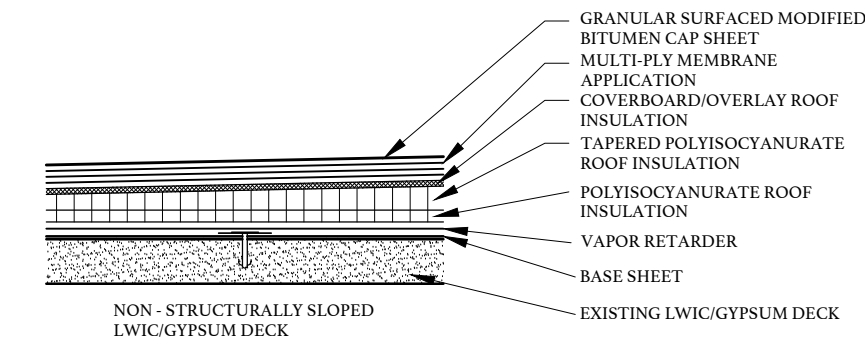
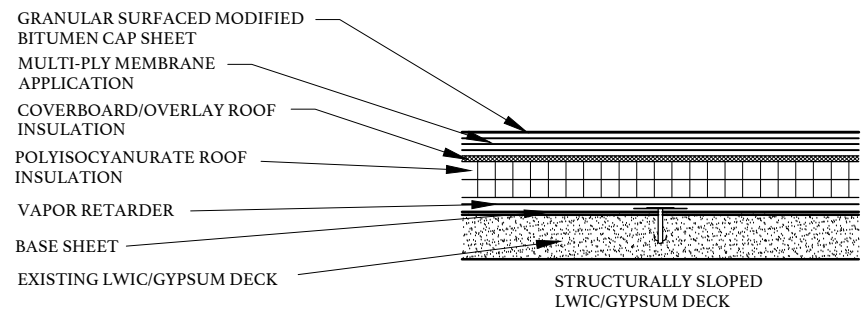
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BEE PROJECT NUMBER: 21066
3351 SUMTER HWY
MANNING, SOUTH CAROLINA

DATE:	06/01/2022
BEE PROJECT #:	21066
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	BSC/KAM
REVISION:	

**TAPER
ROOF PLAN
AREAS N, O, & OI
(ALT. #3)**

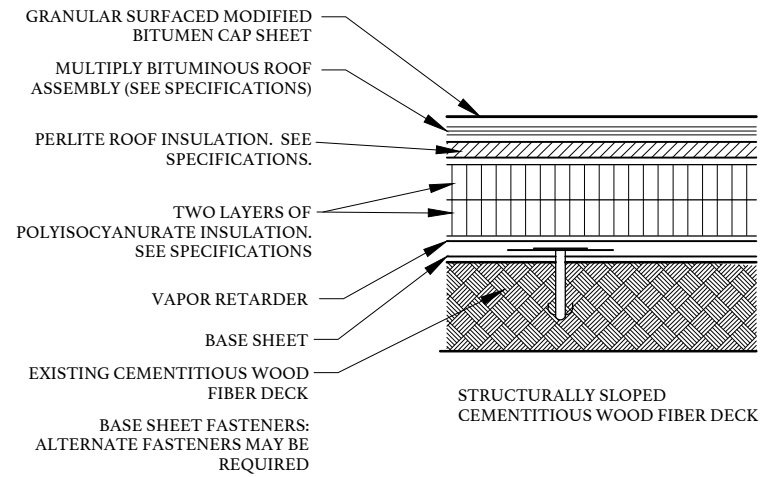
R506

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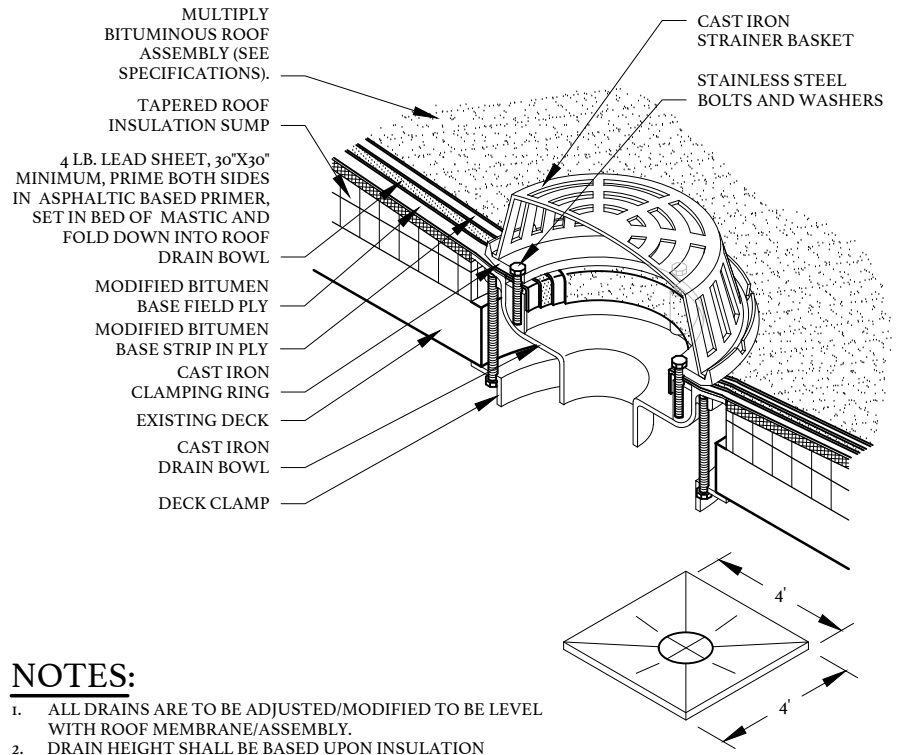


- NOTES:**
- SEE SPECIFICATIONS FOR INSULATION ASSEMBLY AND ROOF SYSTEM

1 MODIFIED BITUMEN ROOF ASSEMBLY
R601 NOT TO SCALE (TYPICAL)

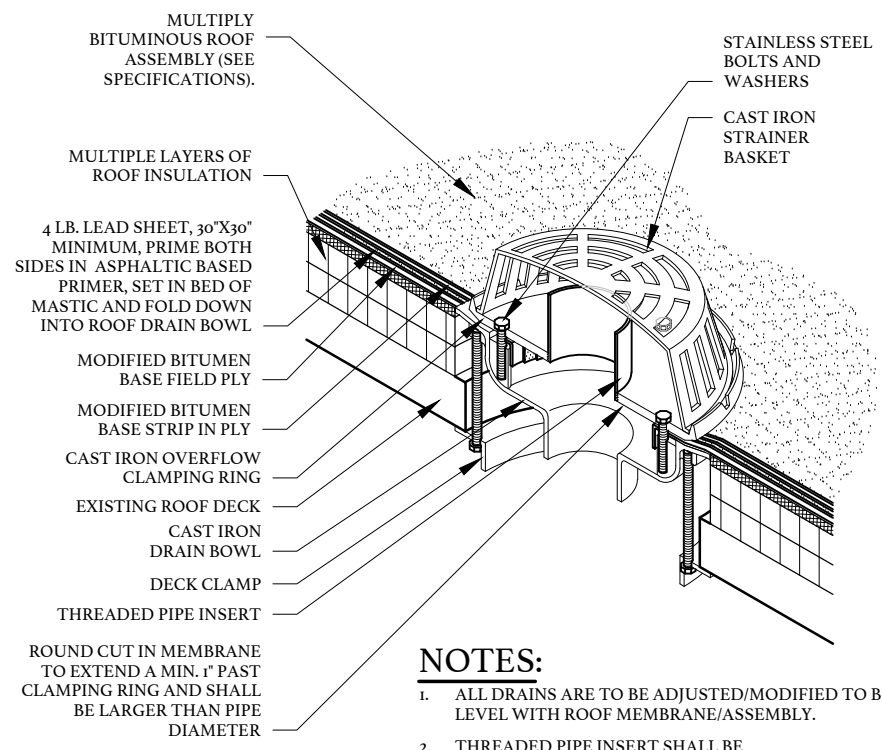


2 MODIFIED BITUMEN ROOF ASSEMBLY
R601 NOT TO SCALE (TYPICAL)



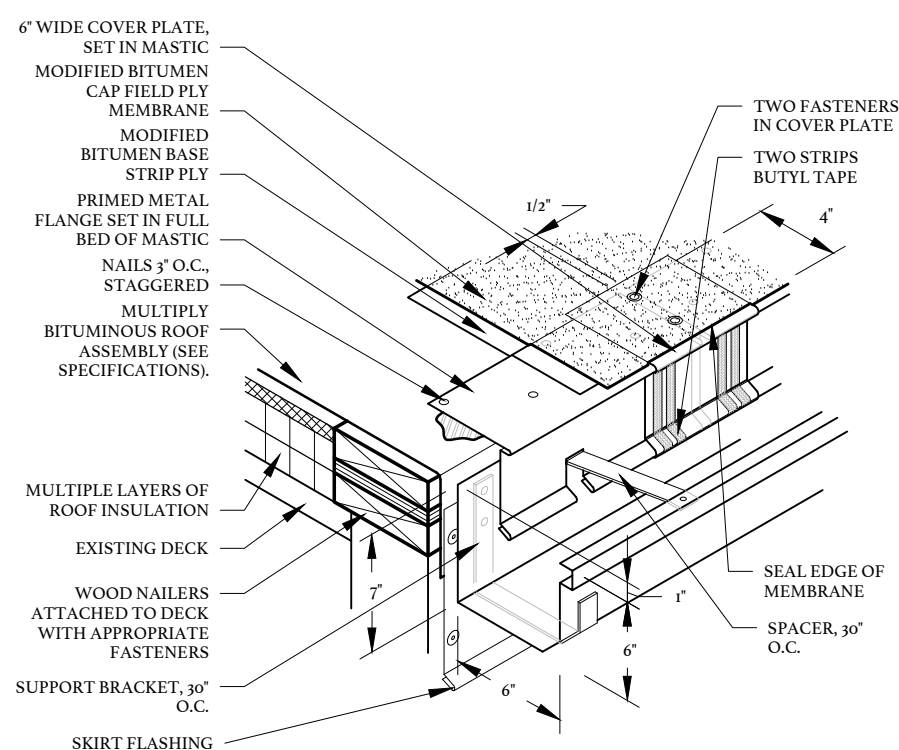
- NOTES:**
- ALL DRAINS ARE TO BE ADJUSTED/MODIFIED TO BE LEVEL WITH ROOF MEMBRANE/ASSEMBLY.
 - DRAIN HEIGHT SHALL BE BASED UPON INSULATION THICKNESS REQUIREMENT AND SHALL BE ACCOMPLISHED BY SINGLE COMPONENT BOWL, EXTENSION BOWL, OR STATIC EXTENDER.
 - TAPERED, 4' X 4' SUMP REQUIRED AT ROOF DRAINS.

3 ROOF DRAIN
R601 NOT TO SCALE (TYPICAL)



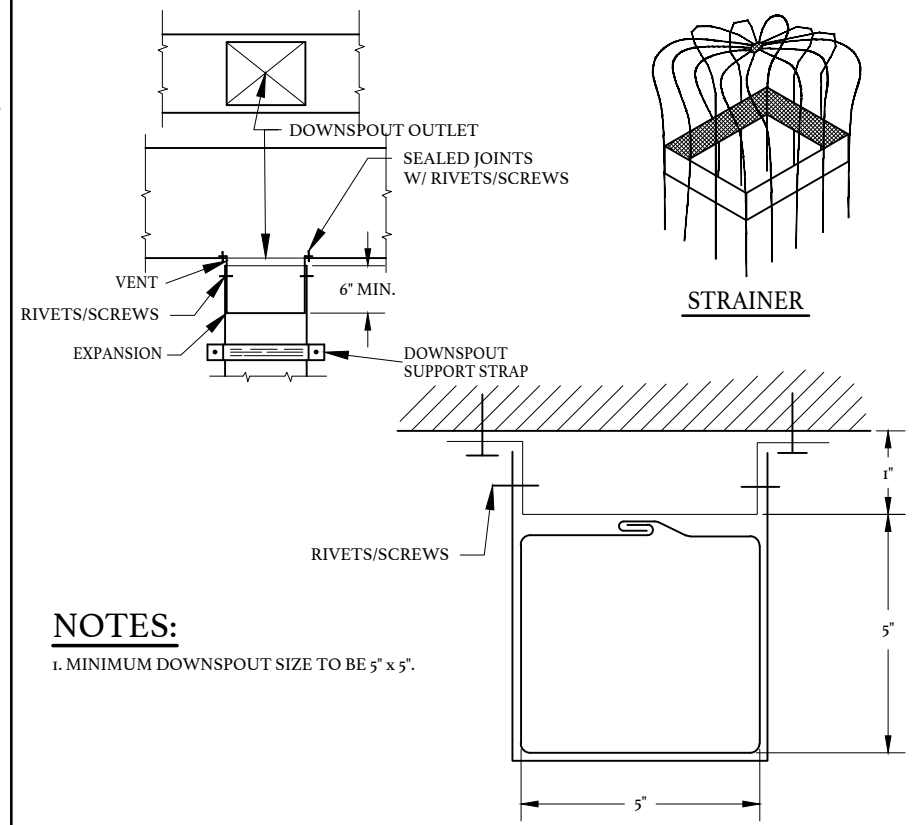
- NOTES:**
- ALL DRAINS ARE TO BE ADJUSTED/MODIFIED TO BE LEVEL WITH ROOF MEMBRANE/ASSEMBLY.
 - THREADED PIPE INSERT SHALL BE CUT/MODIFIED/SIZED TO COMPLY WITH IBC.
 - DRAIN HEIGHT SHALL BE BASED UPON INSULATION THICKNESS REQUIREMENTS AND SHALL BE ACCOMPLISHED BY SINGLE COMPONENT BOWL, EXTENSION BOWL, OR STATIC EXTENDER.

4 OVERFLOW ROOF DRAIN
R601 NOT TO SCALE (TYPICAL)



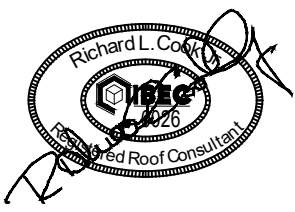
- NOTES:**
- MINIMUM SIZE GUTTER 6" x 6" & 1" HIGHER ON INSIDE EDGE.

5 METAL ROOF EDGE WITH GUTTER
R601 NOT TO SCALE (TYPICAL)



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

6 GUTTER DOWNSPOUT CONNECTIONS
R601 NOT TO SCALE (TYPICAL)

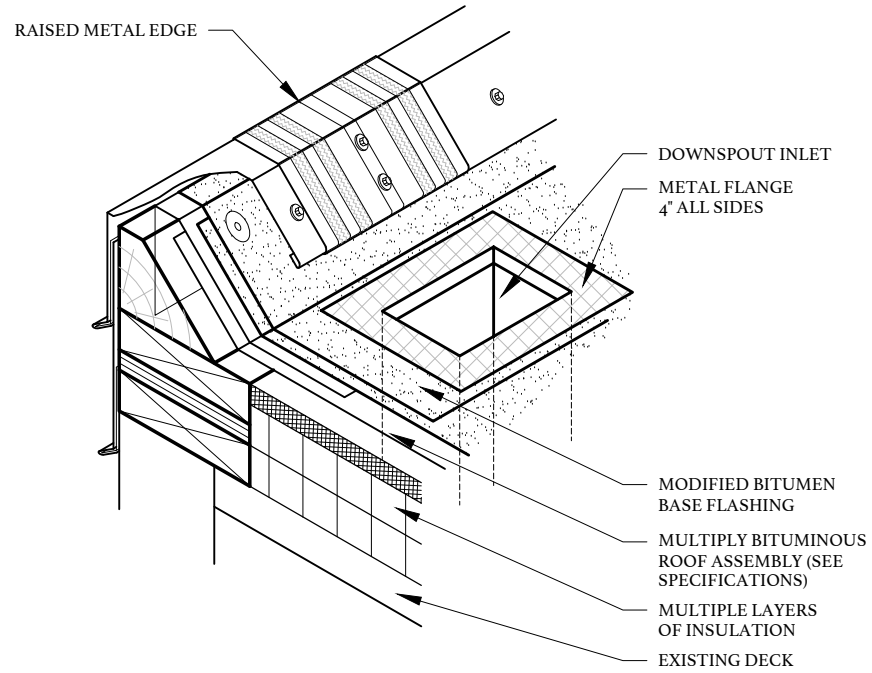


CENTRAL CAROLINA TECHNICAL COLLEGE
F.E. DUBOSE CAMPUS
ROOF REPLACEMENT
OWNER PROJECT NUMBER: H59-6775-PD
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3351 SUMNER HWY
MANNING, SOUTH CAROLINA

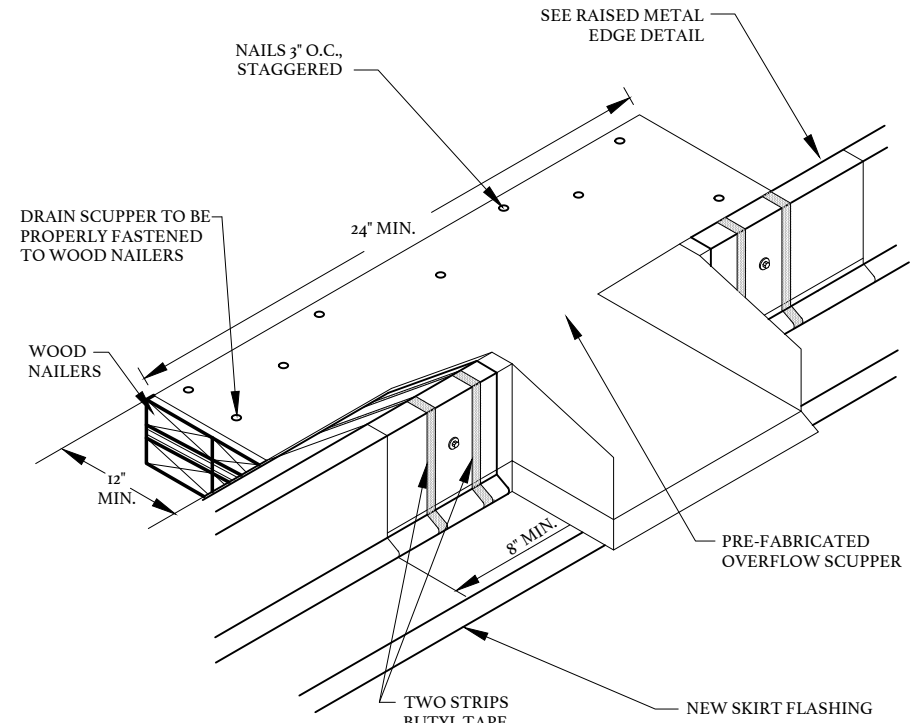
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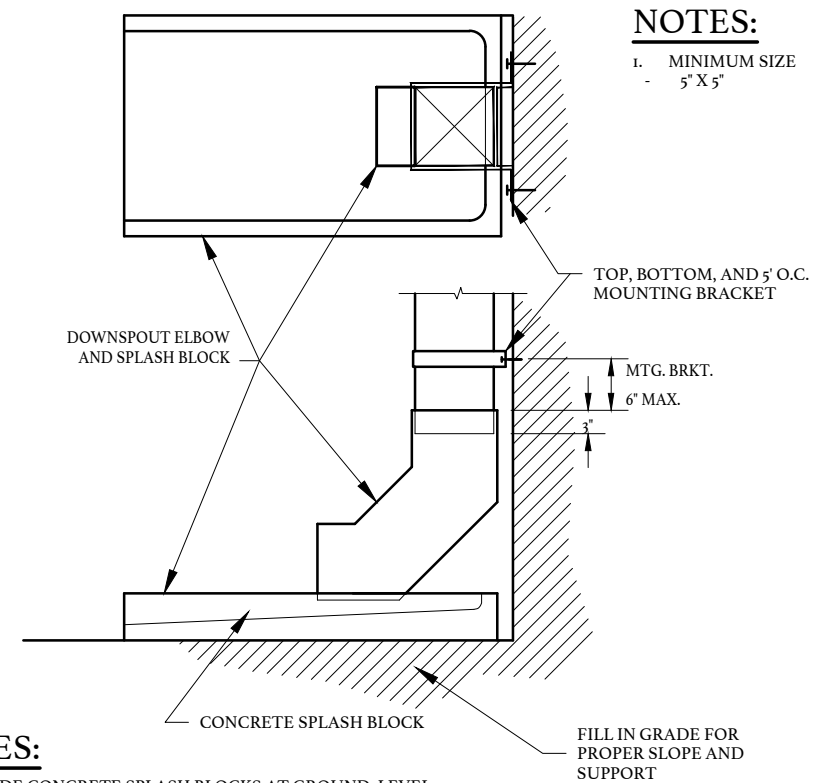
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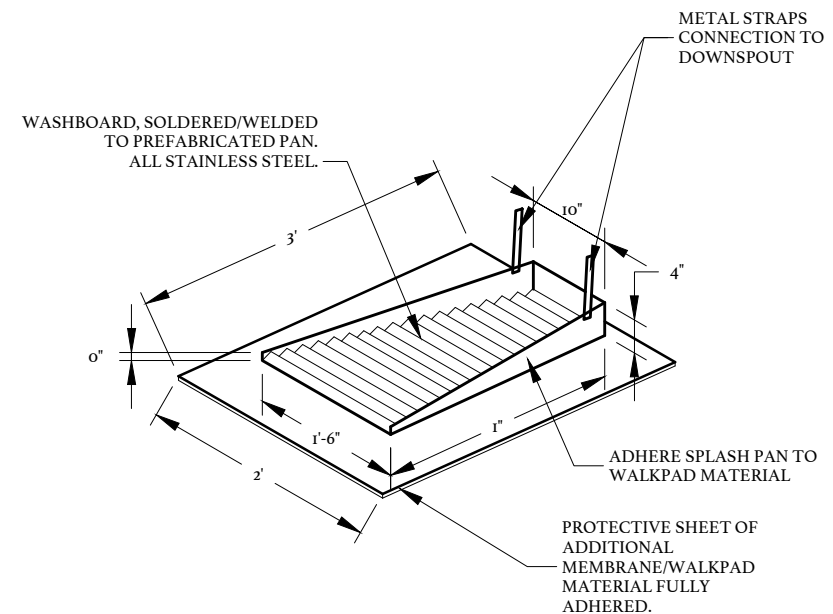
7
R602
RAISED METAL EDGE WITH DRAIN PIPE
NOT TO SCALE (TYPICAL)



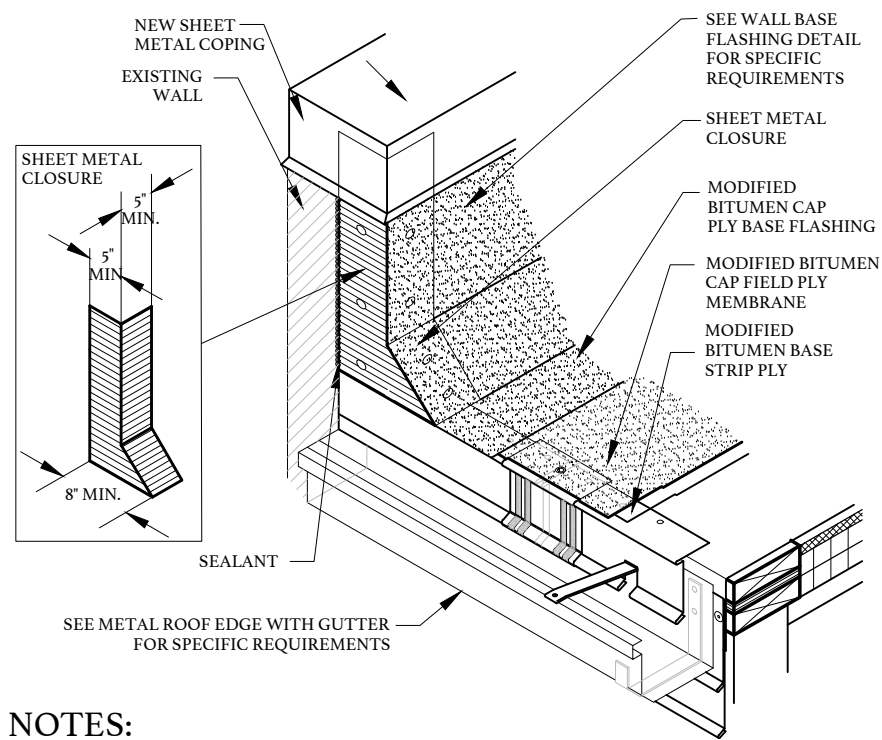
8
R602
PRE-FABRICATED SCUPPER AT RAISED METAL EDGE
NOT TO SCALE (TYPICAL)



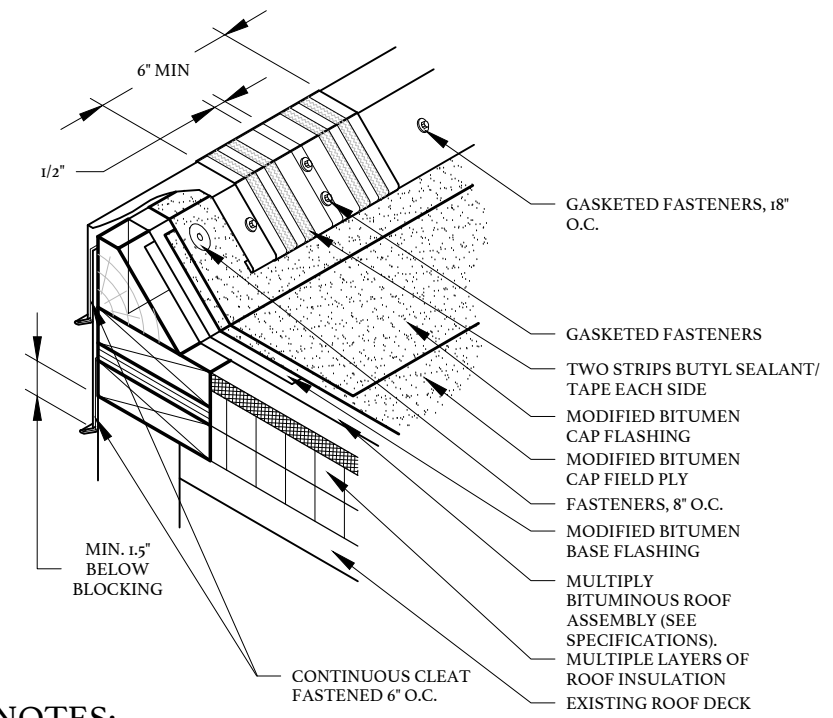
9
R602
DOWNSPOUT TO SPLASH BLOCK
NOT TO SCALE (TYPICAL)



10
R602
METAL SPLASH PAN
NOT TO SCALE (TYPICAL)

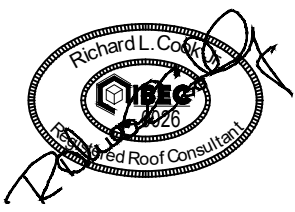


11
R602
PARAPET END WALL TERMINATION DETAIL
NOT TO SCALE (TYPICAL)



12
R602
RAISED METAL EDGE
NOT TO SCALE (TYPICAL)

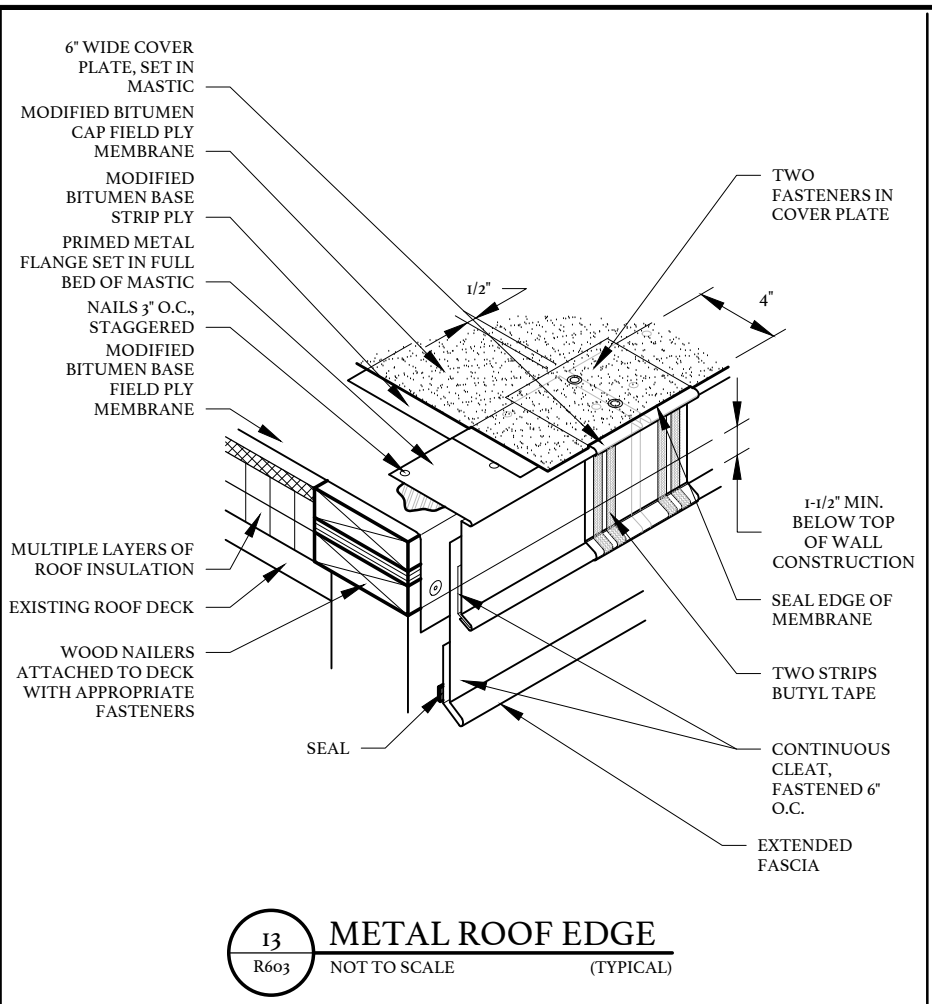
NOTES:
1. MINIMUM SIZE - 5" X 5"



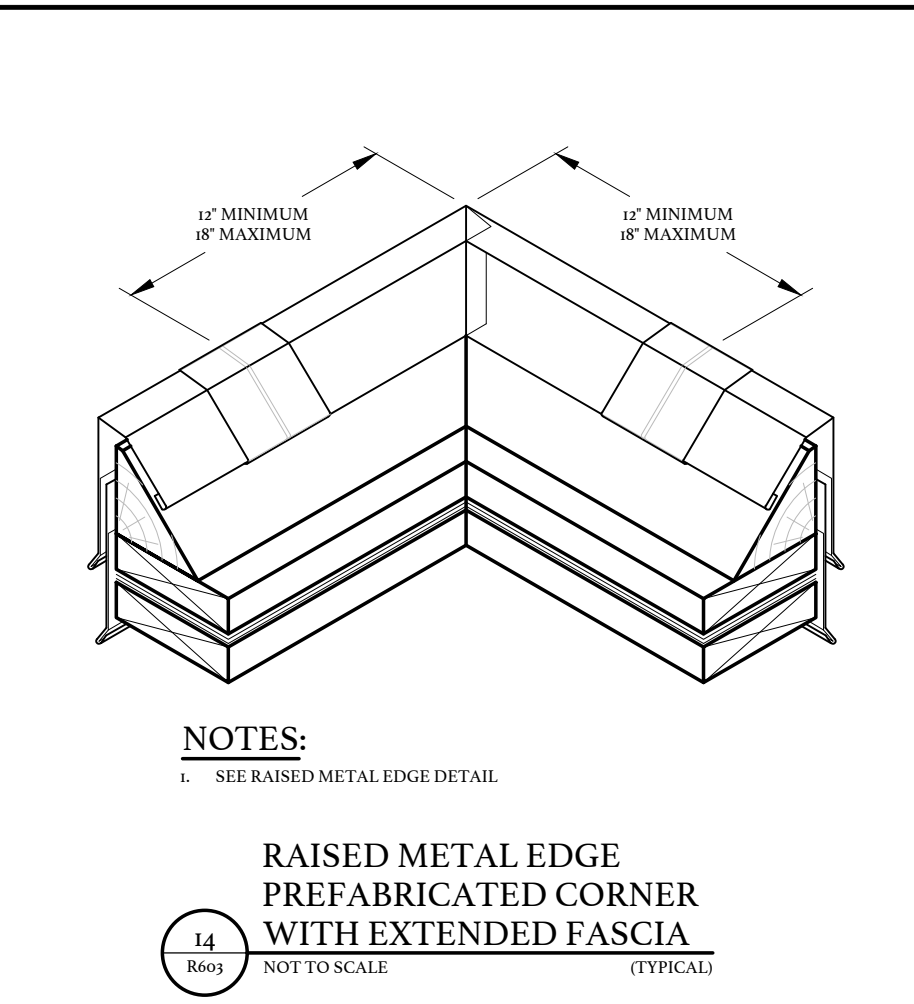
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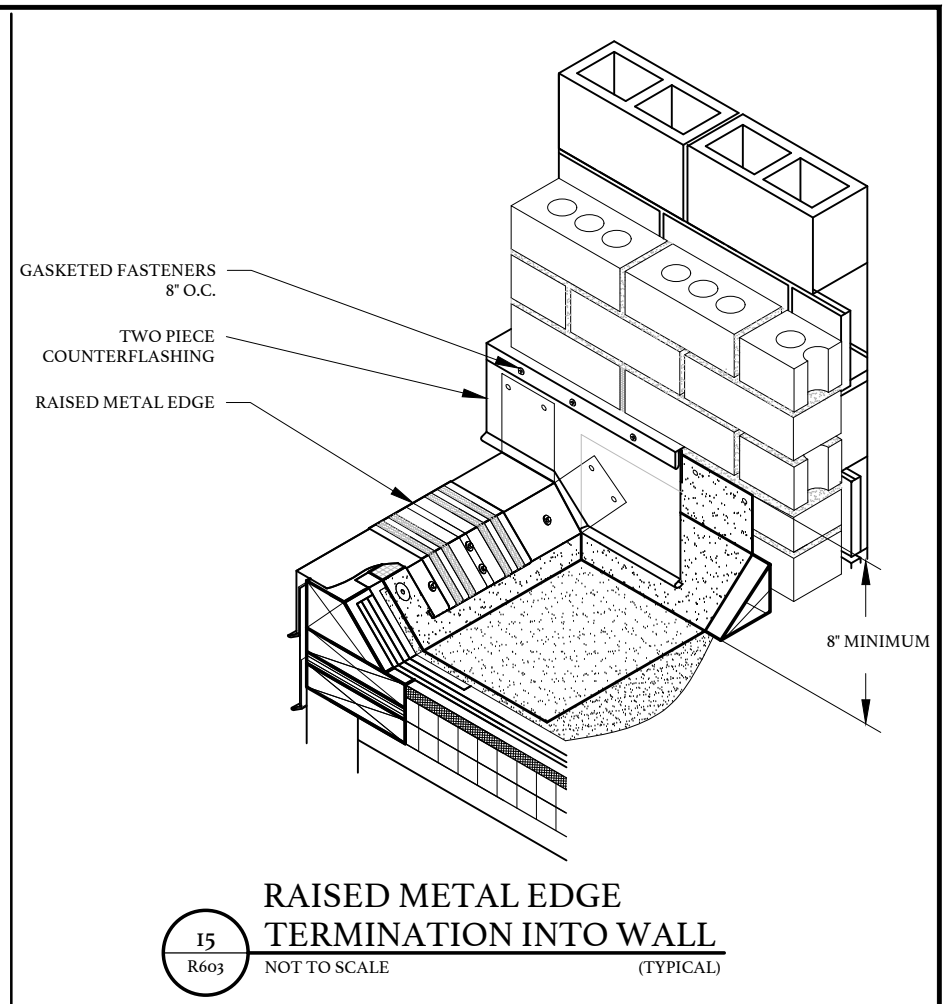
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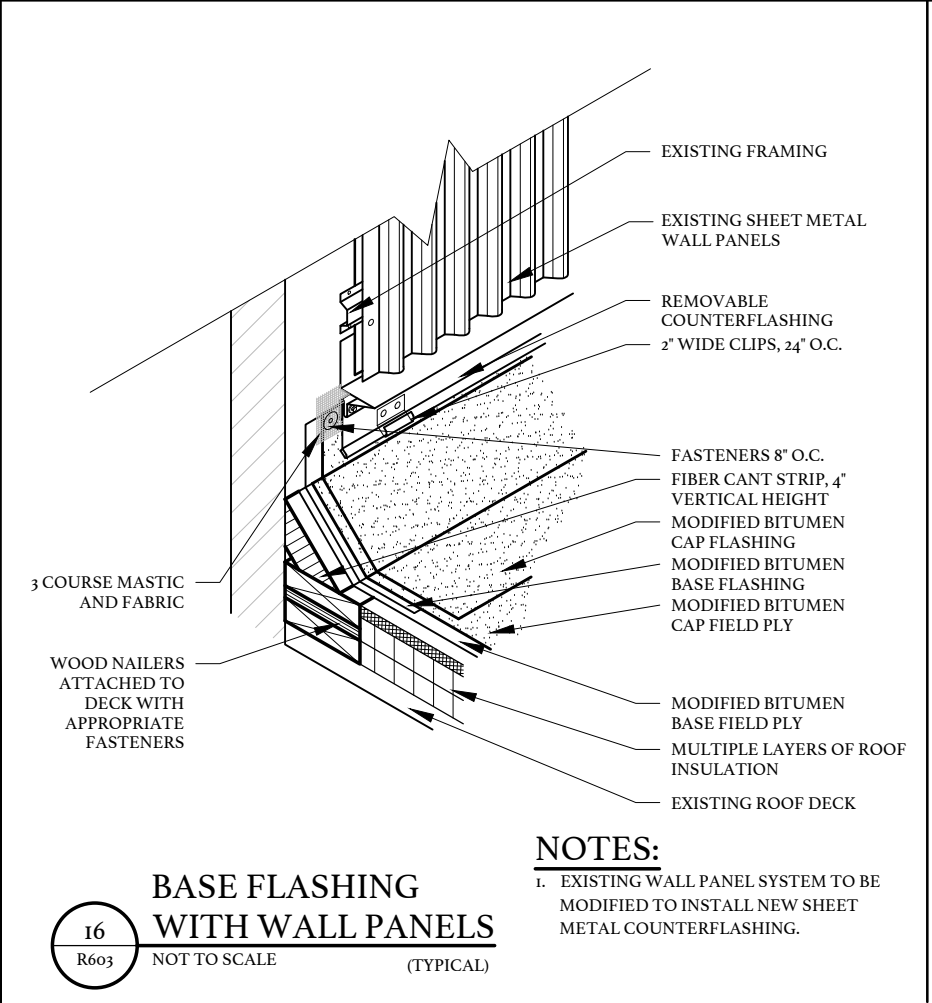
13 METAL ROOF EDGE
 R603 NOT TO SCALE (TYPICAL)



14 RAISED METAL EDGE PREFABRICATED CORNER WITH EXTENDED FASCIA
 R603 NOT TO SCALE (TYPICAL)

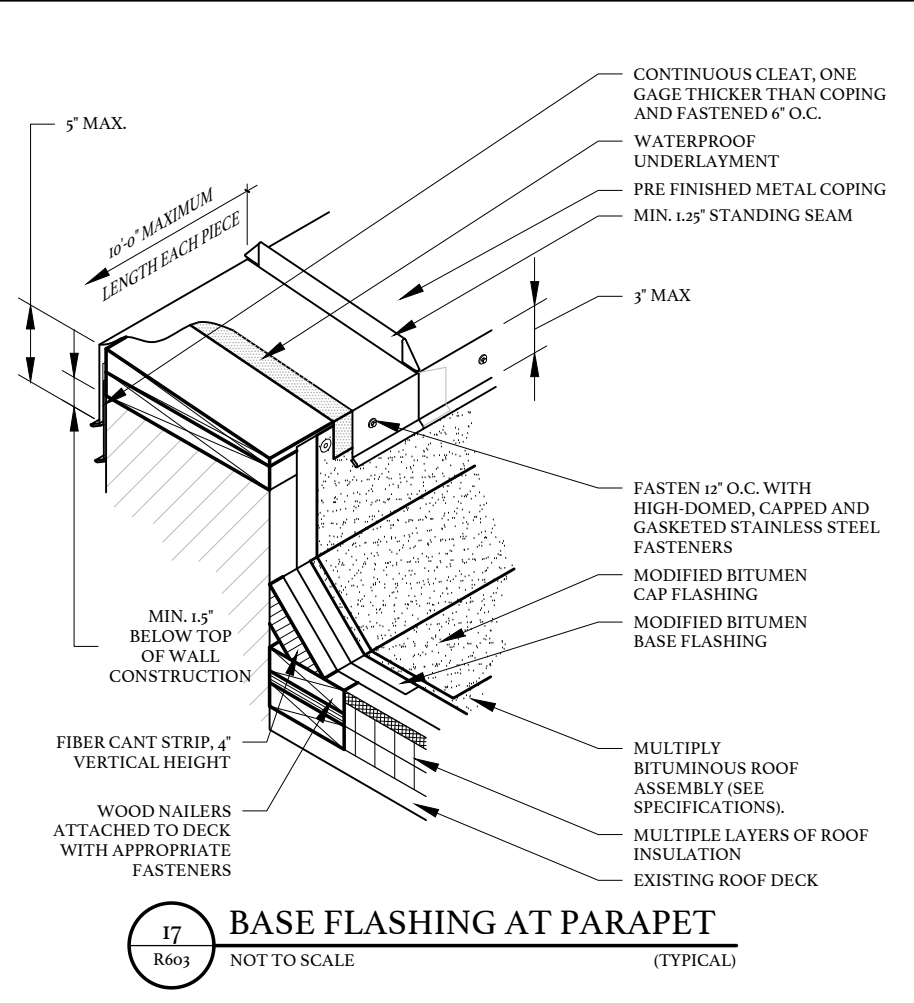


15 RAISED METAL EDGE TERMINATION INTO WALL
 R603 NOT TO SCALE (TYPICAL)

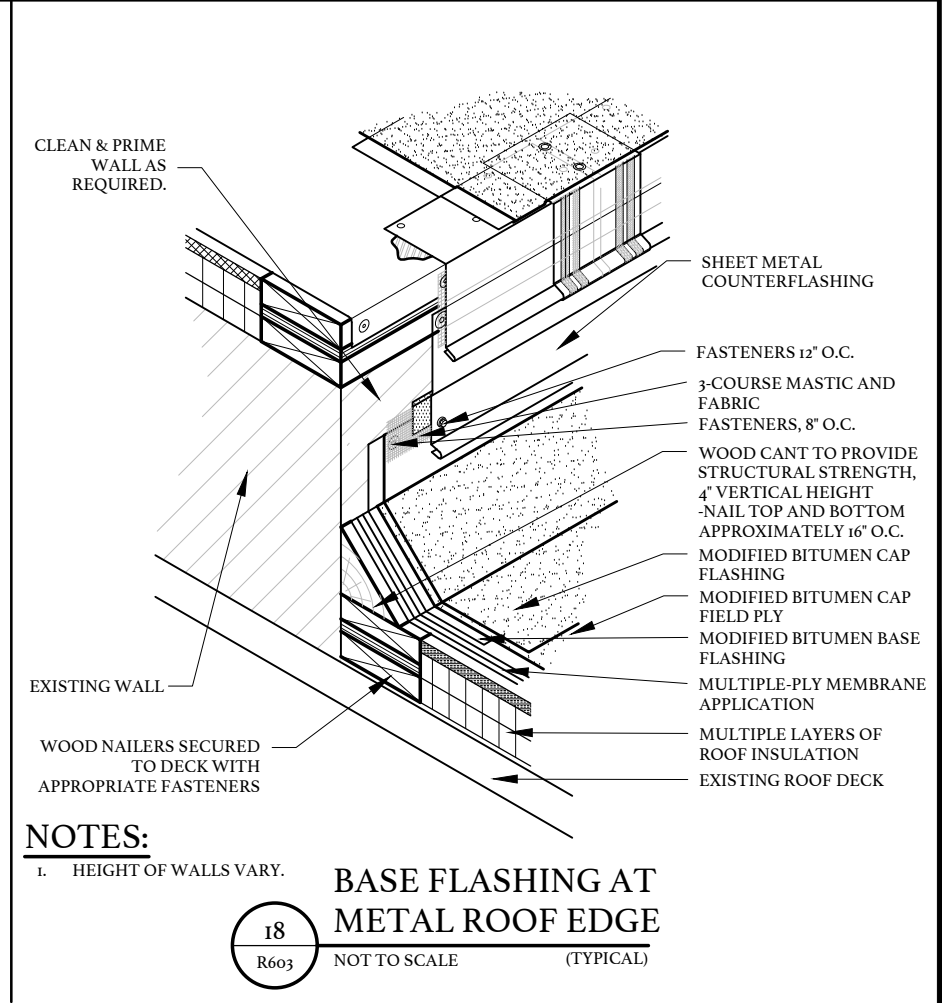


16 BASE FLASHING WITH WALL PANELS
 R603 NOT TO SCALE (TYPICAL)

NOTES:
 1. EXISTING WALL PANEL SYSTEM TO BE MODIFIED TO INSTALL NEW SHEET METAL COUNTERFLASHING.

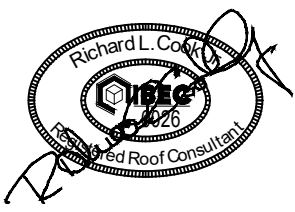


17 BASE FLASHING AT PARAPET
 R603 NOT TO SCALE (TYPICAL)



18 BASE FLASHING AT METAL ROOF EDGE
 R603 NOT TO SCALE (TYPICAL)

NOTES:
 1. HEIGHT OF WALLS VARY.



CENTRAL CAROLINA TECHNICAL COLLEGE

F.E. DUBOSE CAMPUS ROOF REPLACEMENT

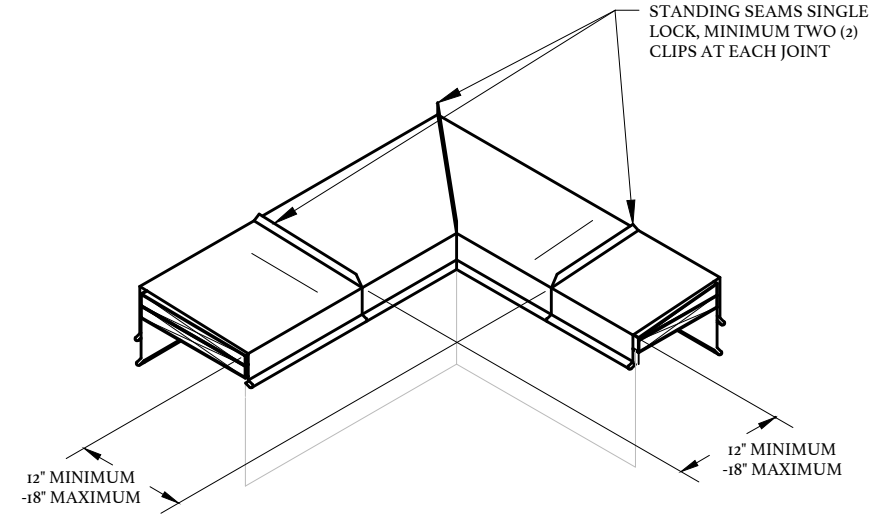
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3351 SUMTER HWY
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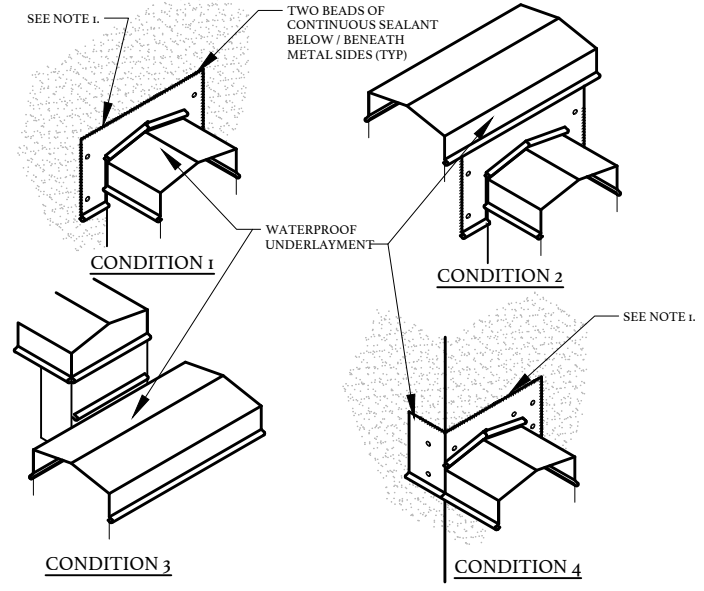
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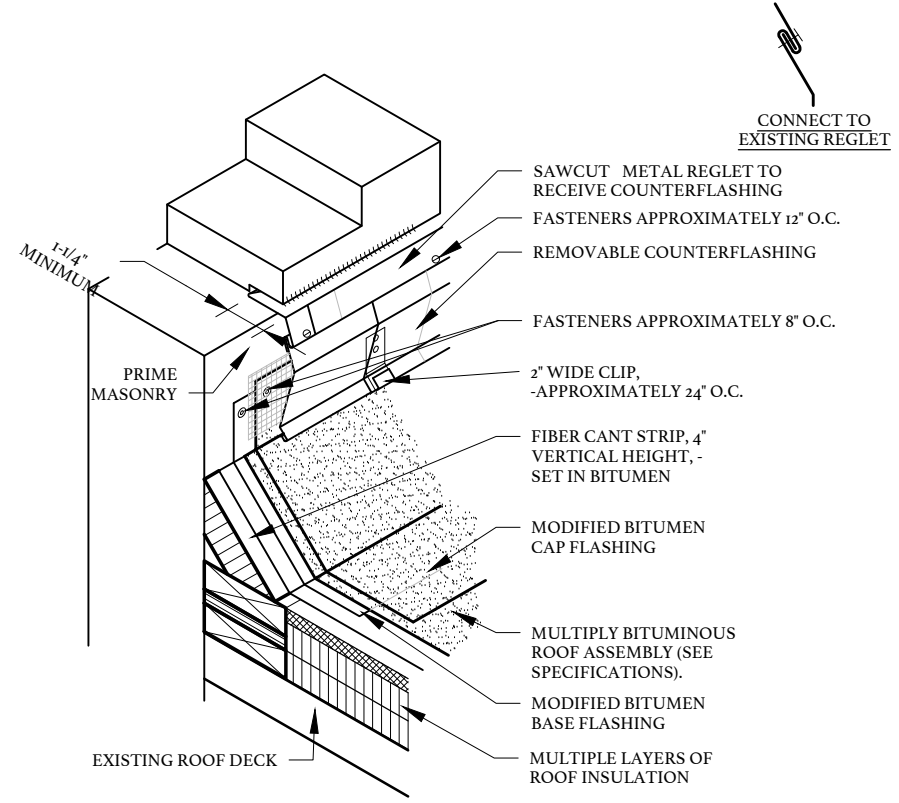
19
R604 NOT TO SCALE (TYPICAL)
**COPING
PREFABRICATED CORNER**



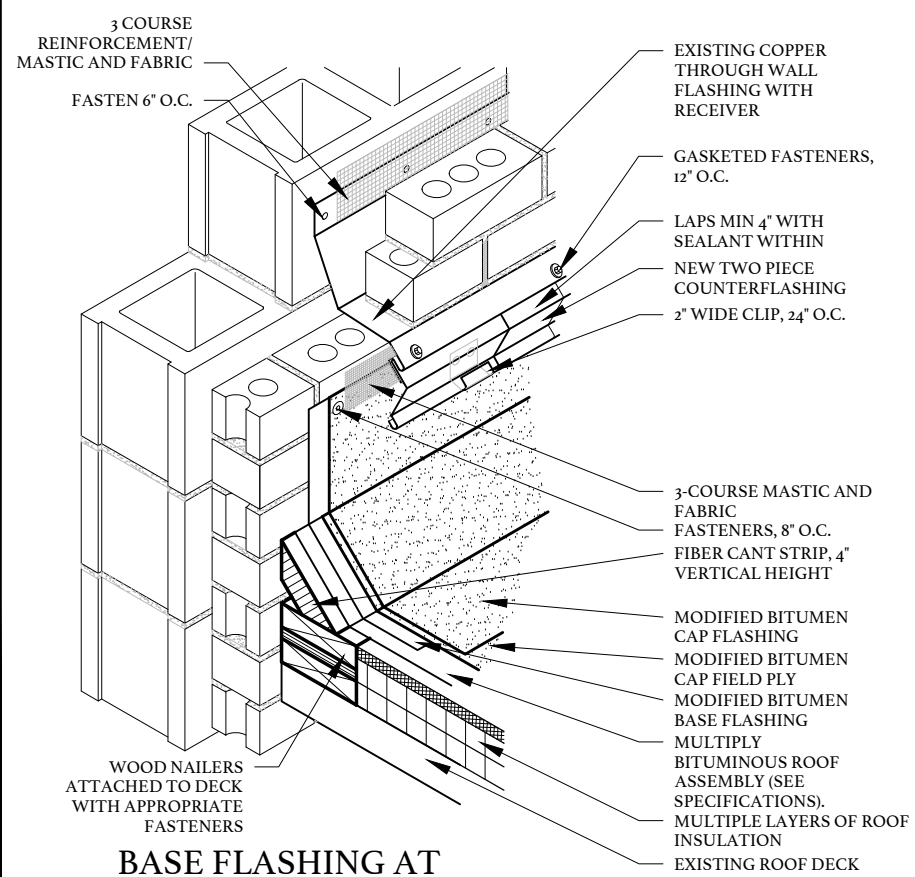
NOTES:

1. REGLET / RAGGLE CUT INTO WALL 1/4" DEEP FOR CONCRETE, STUCCO, AND MASONRY SURFACES. PROVIDE BACKER ROD AND SEALANT JOINT.
2. WATERPROOF UNDERLAYMENT UNDER ALL SHEET METAL TRANSITION UP VERTICAL SURFACES, AROUND CORNERS AND ONTO HORIZONTAL SURFACES (MINIMUM FOUR INCHES).
3. CONFIGURATION OF FLASHING SHALL BE APPROVED BY ARCHITECT PRIOR TO FABRICATION.

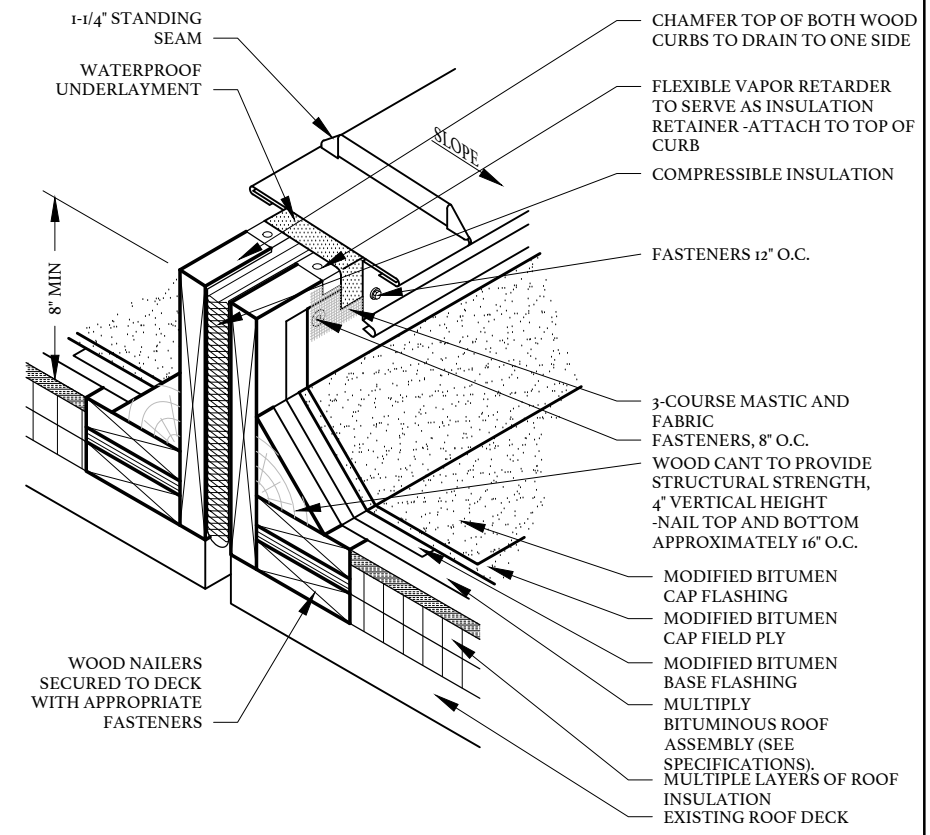
20
R604 NOT TO SCALE (TYPICAL)
PARAPET TERMINATIONS



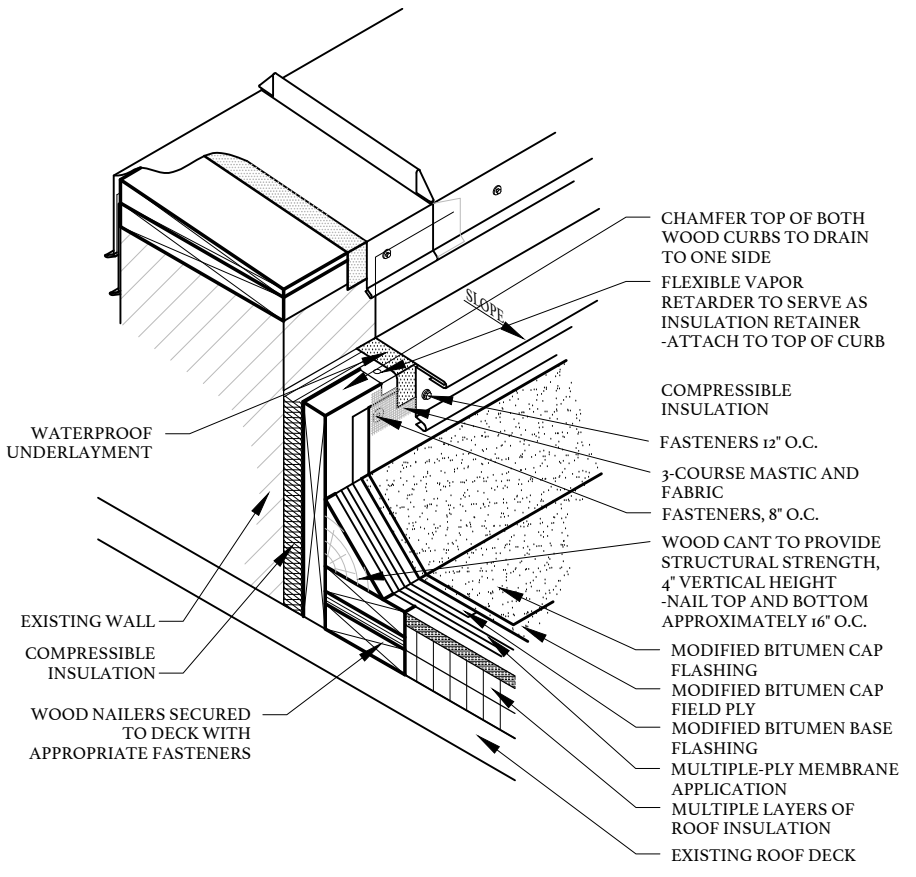
21
R604 NOT TO SCALE (TYPICAL)
**WALL SUPPORTED
BASE FLASHING WITH REGLET**



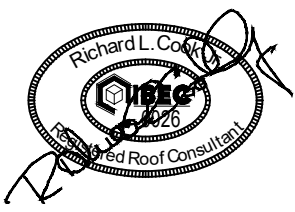
22
R604 NOT TO SCALE (TYPICAL)
**BASE FLASHING AT
MASONRY WITH EXISTING THROUGH WALL**



23
R604 NOT TO SCALE (TYPICAL)
EXPANSION JOINT



24
R604 NOT TO SCALE (TYPICAL)
METAL COPING/EXPANSION JOINT

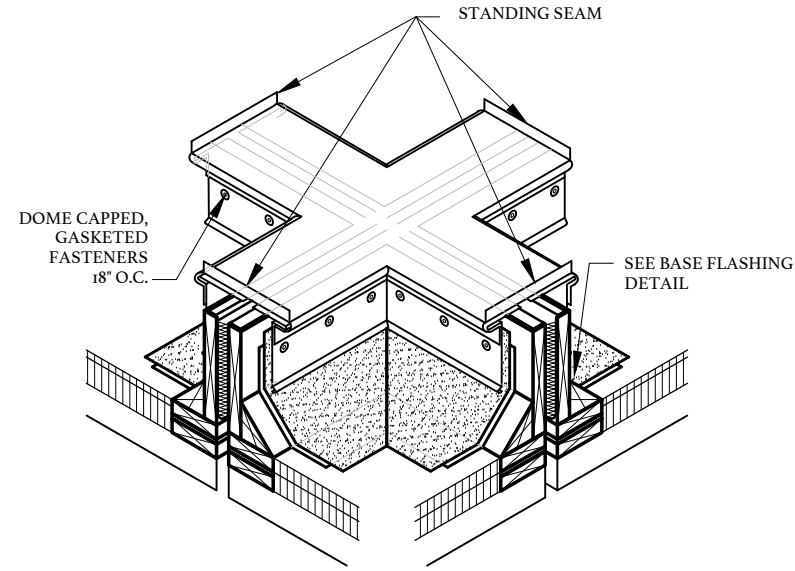


CENTRAL CAROLINA TECHNICAL COLLEGE
**F.E. DUBOSE CAMPUS
ROOF REPLACEMENT**
OWNER PROJECT NUMBER: H59-6775-PD
BEE PROJECT NUMBER: 21066
3351 SUMTER HWY
MANNING, SOUTH CAROLINA

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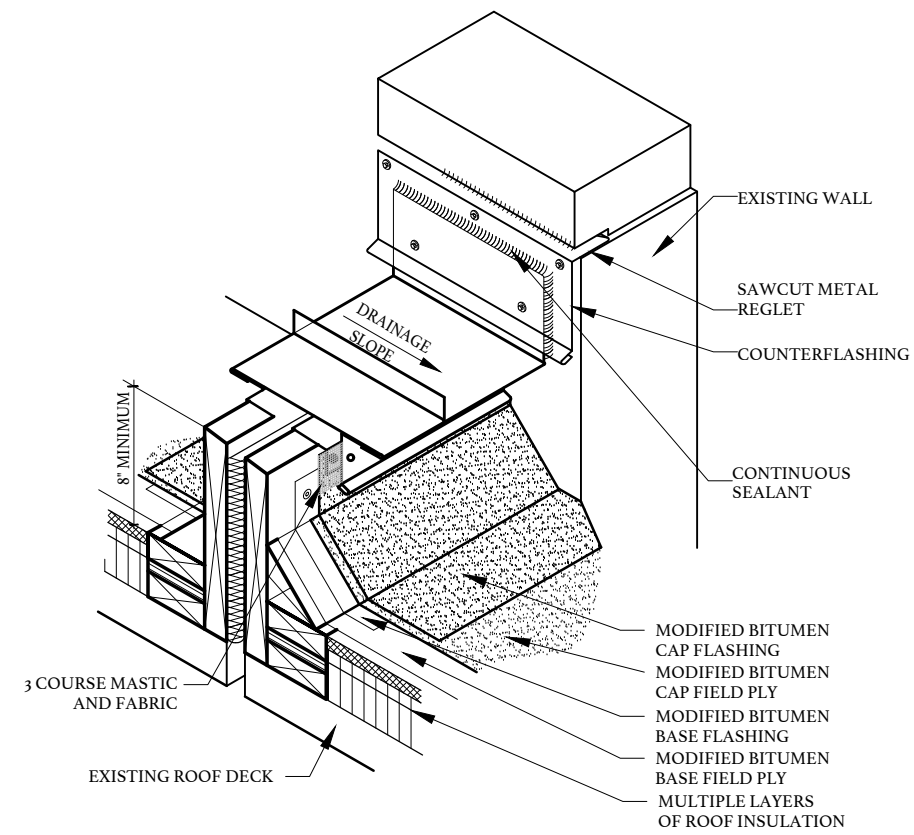
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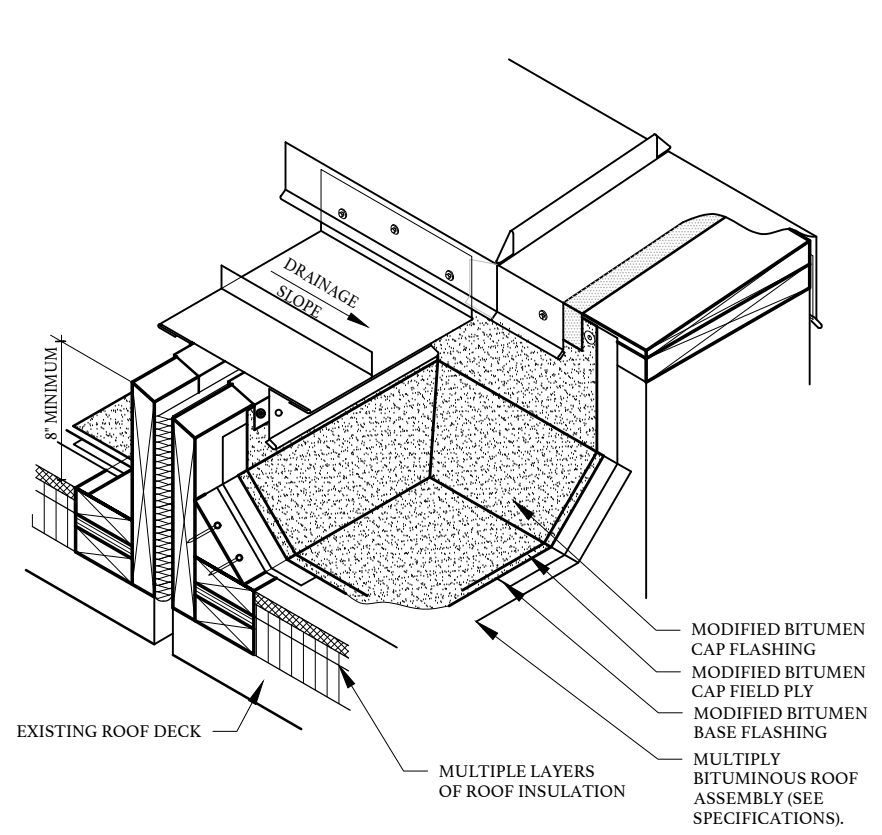


NOTES:
 1. SEE EXPANSION JOINT DETAIL FOR SPECIFIC CRITERIA.

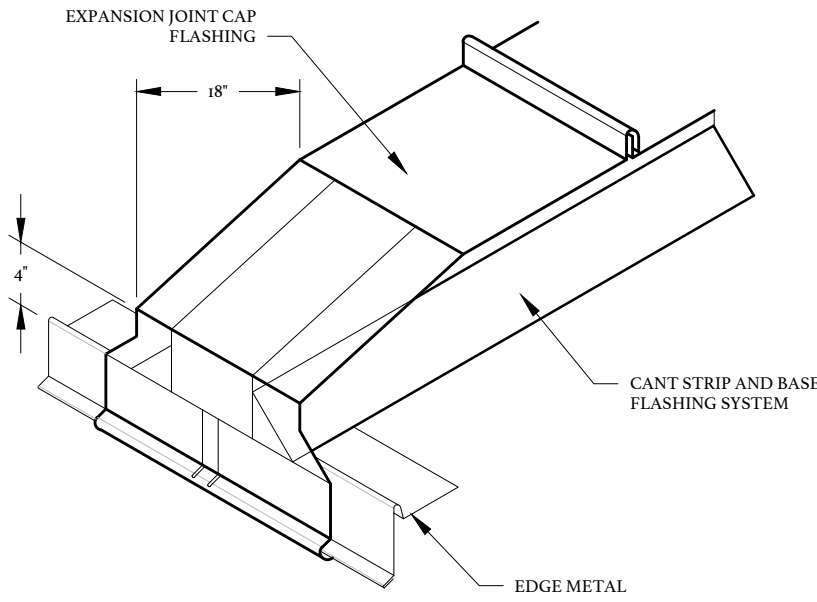
25
 R605 **EXPANSION JOINT FOUR WAY INTERSECTION DETAIL**
 NOT TO SCALE (TYPICAL)



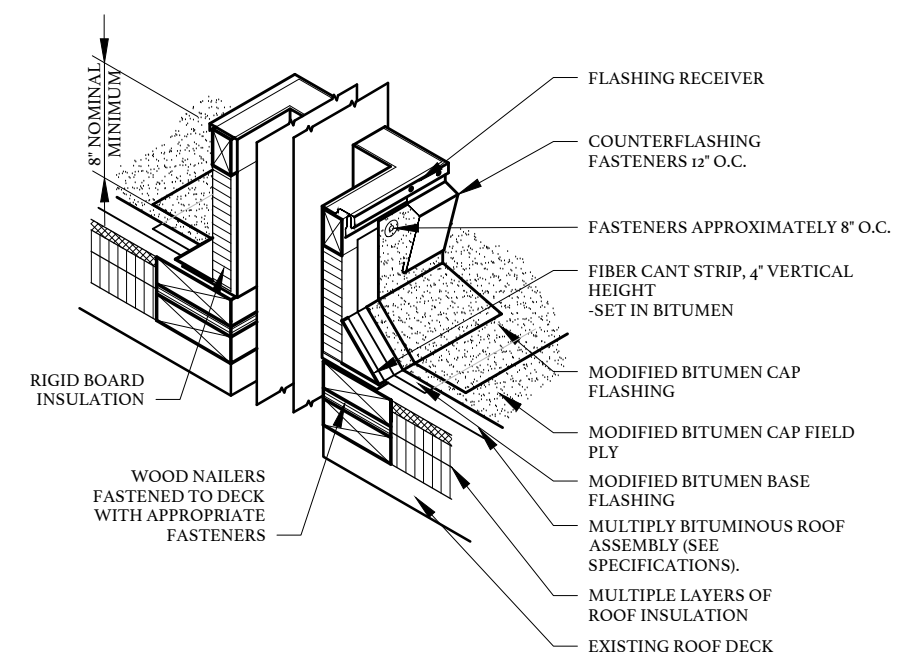
26
 R605 **EXPANSION JOINT TERMINATION**
 NOT TO SCALE (TYPICAL)



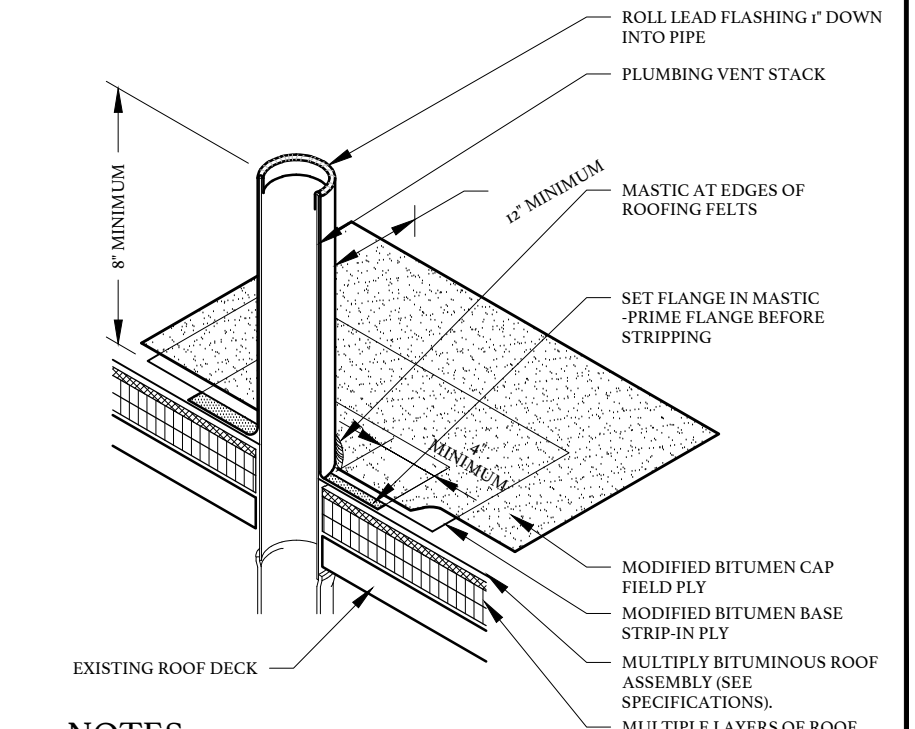
27
 R605 **EXPANSION JOINT TERMINATION**
 NOT TO SCALE (TYPICAL)



28
 R605 **EXPANSION JOINT TERMINATION INTO EDGE**
 NOT TO SCALE (TYPICAL)

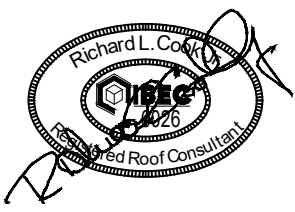


29
 R605 **METAL CURB FOR ROOF PENETRATIONS**
 NOT TO SCALE (TYPICAL)



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.

30
 R605 **PLUMBING VENT FLASHING**
 NOT TO SCALE (TYPICAL)

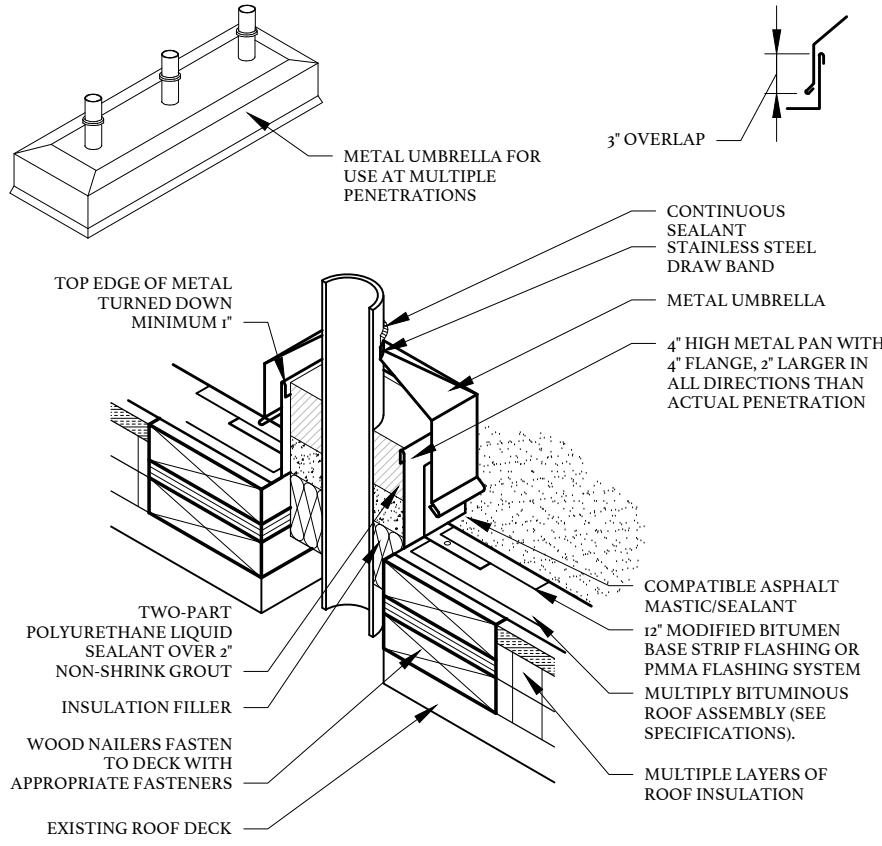


CENTRAL CAROLINA TECHNICAL COLLEGE
 F.E. DUBOSE CAMPUS
 ROOF REPLACEMENT
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 BEE PROJECT NUMBER: 21066
 3351 SUMTER HWY
 MANNING, SOUTH CAROLINA

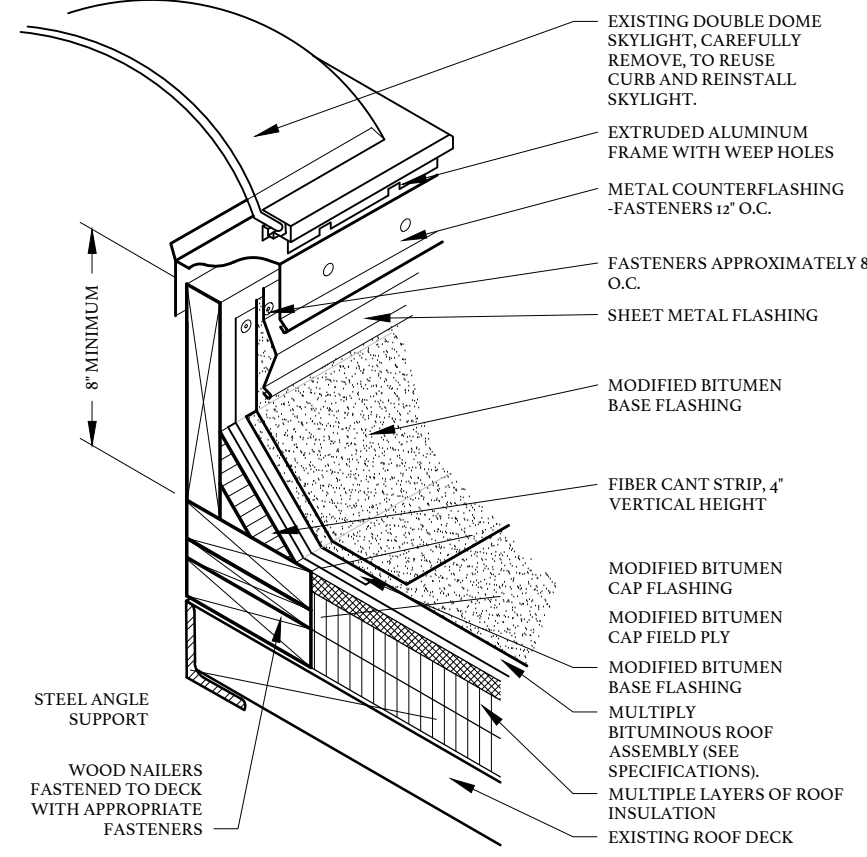
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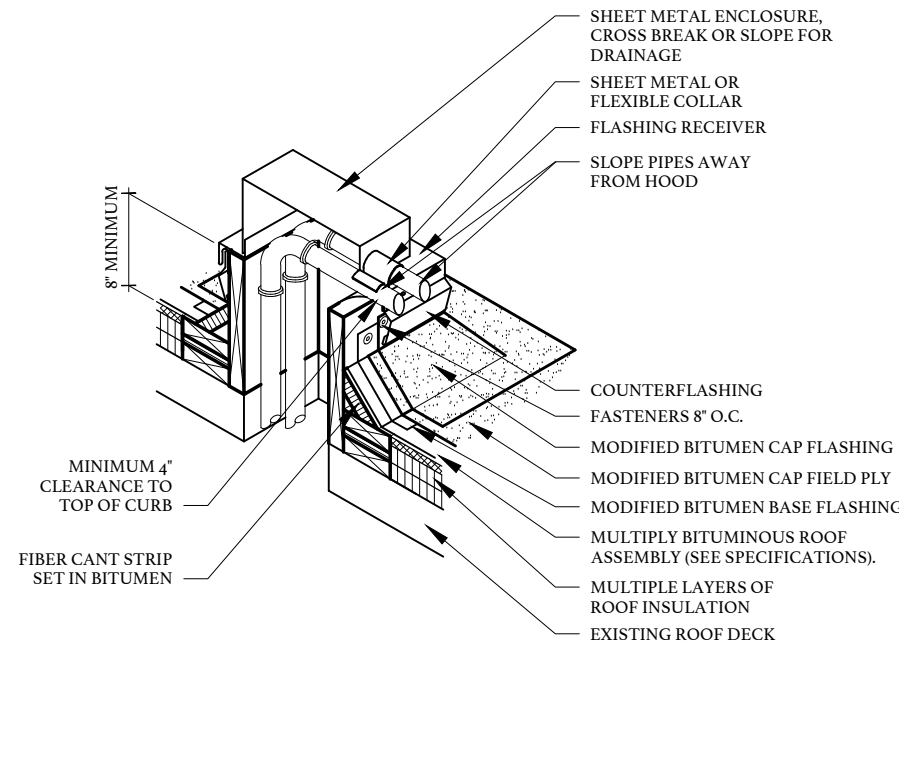
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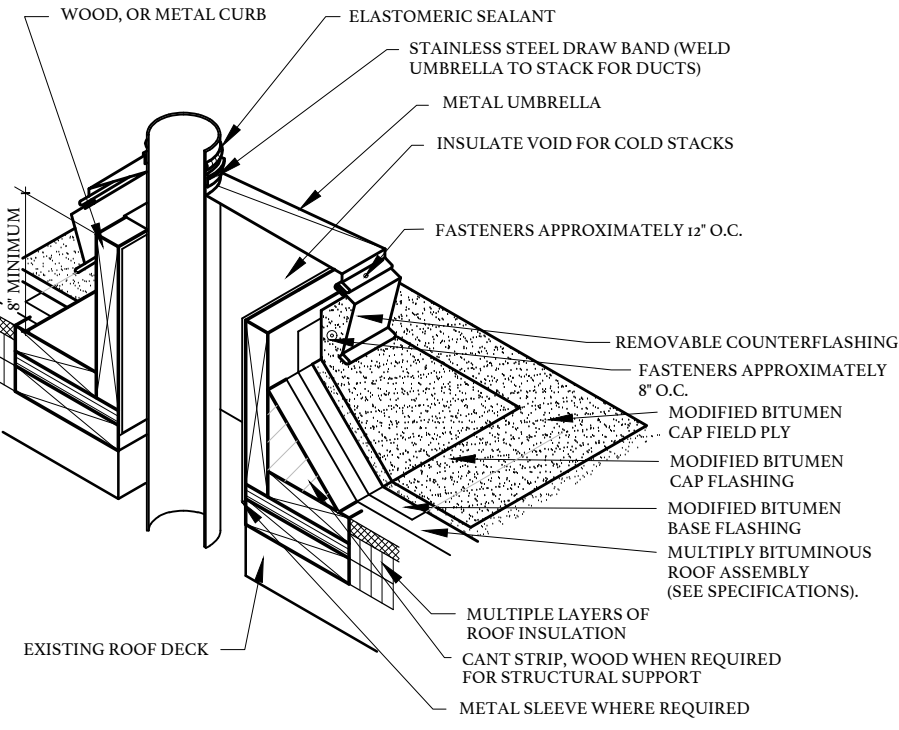
31 PITCH PAN WITH UMBRELLA
R606 NOT TO SCALE (TYPICAL)



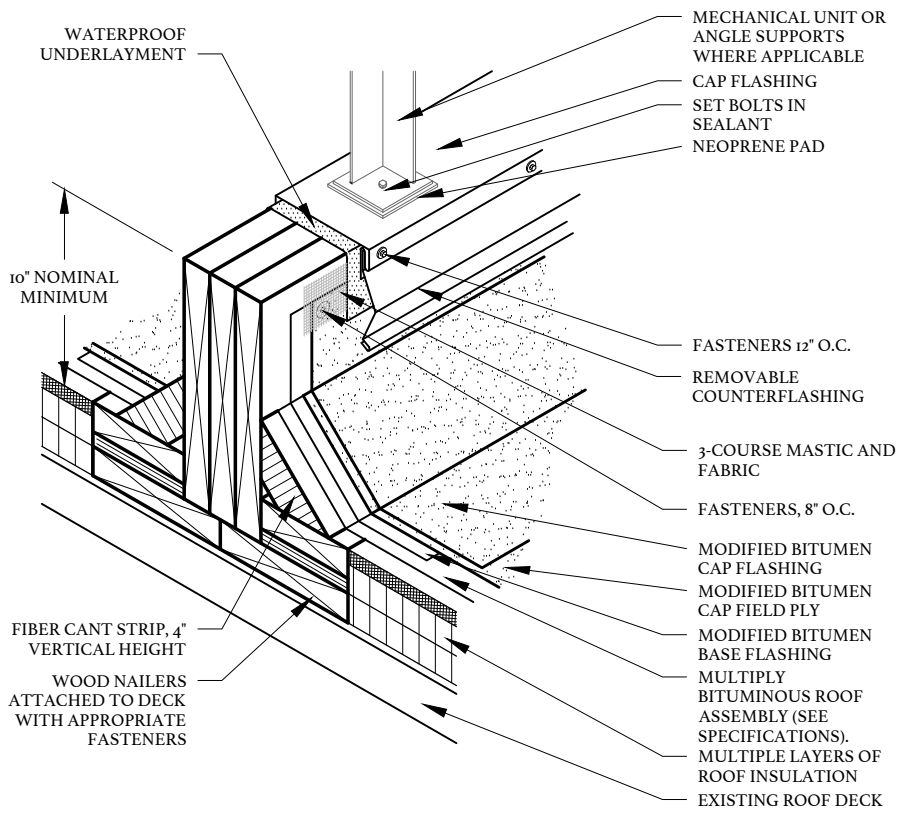
32 SKYLIGHT SECTION
R606 NOT TO SCALE (TYPICAL)



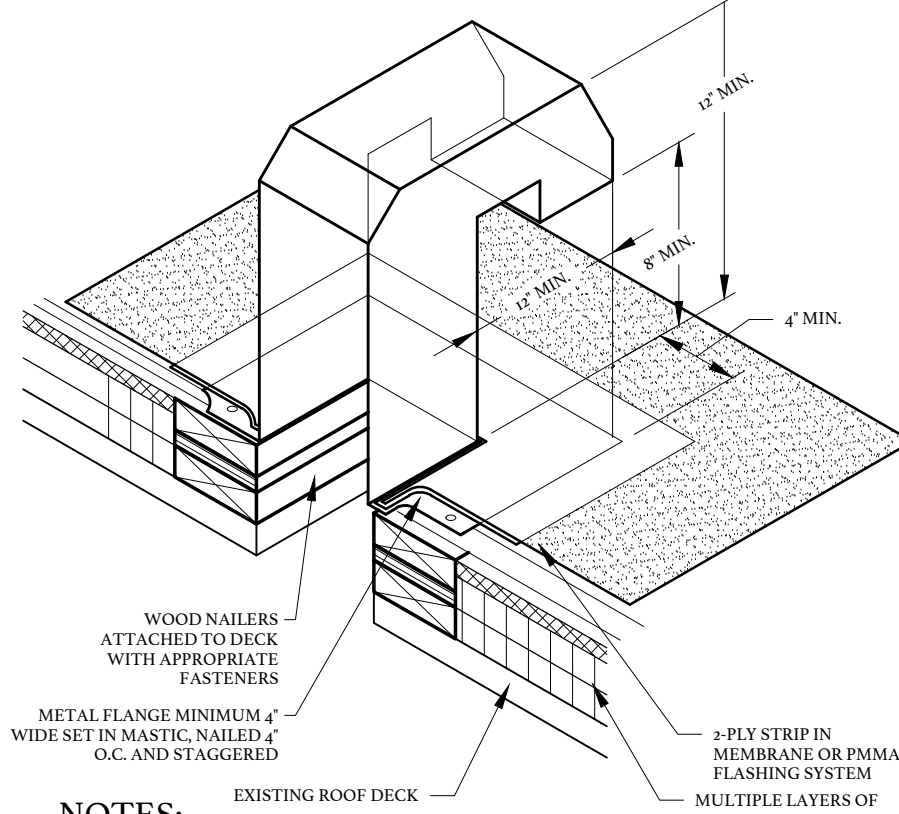
33 CURB FOR PIPES THRU ROOF
R606 NOT TO SCALE (TYPICAL)



34 STACK FLASHING
R606 NOT TO SCALE (TYPICAL)

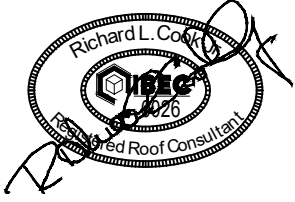


35 EQUIPMENT SUPPORT
R606 NOT TO SCALE (TYPICAL)



NOTES:
1. ALL METAL TO BE STAINLESS STEEL.

36 GOOSE NECK DETAIL
R606 NOT TO SCALE (TYPICAL)

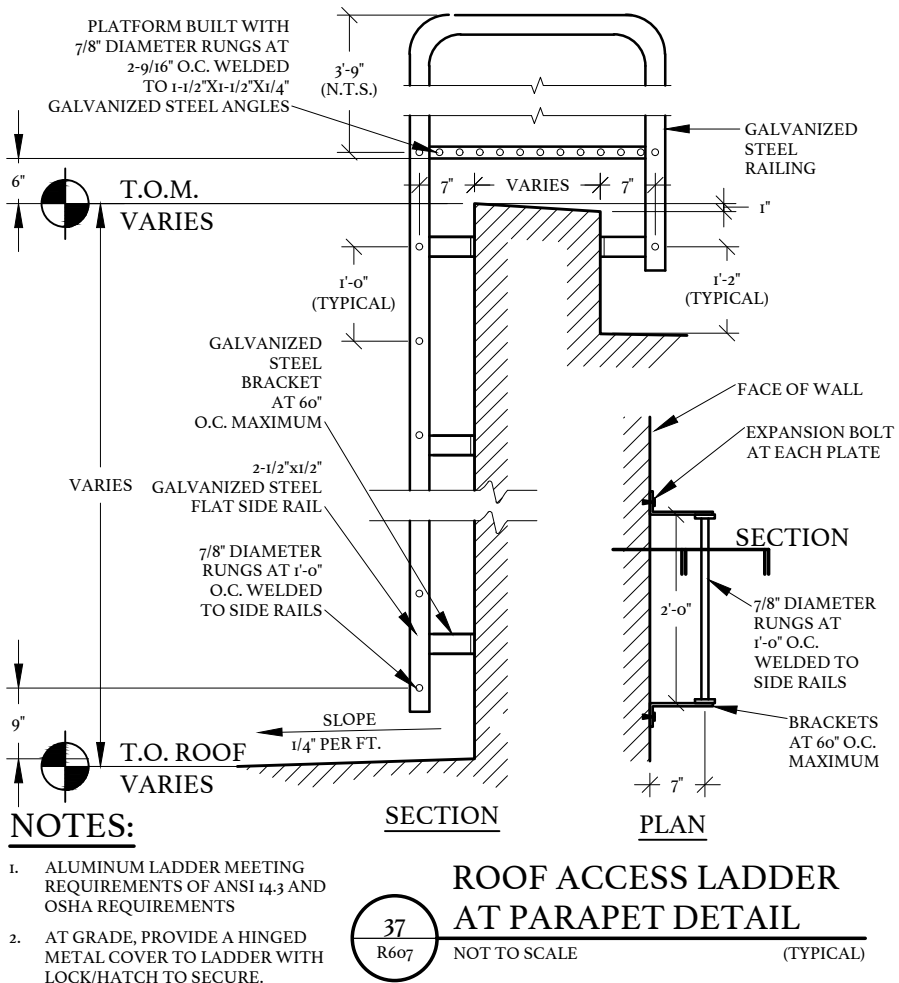


CENTRAL CAROLINA TECHNICAL COLLEGE
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3351 SUMTER HWY
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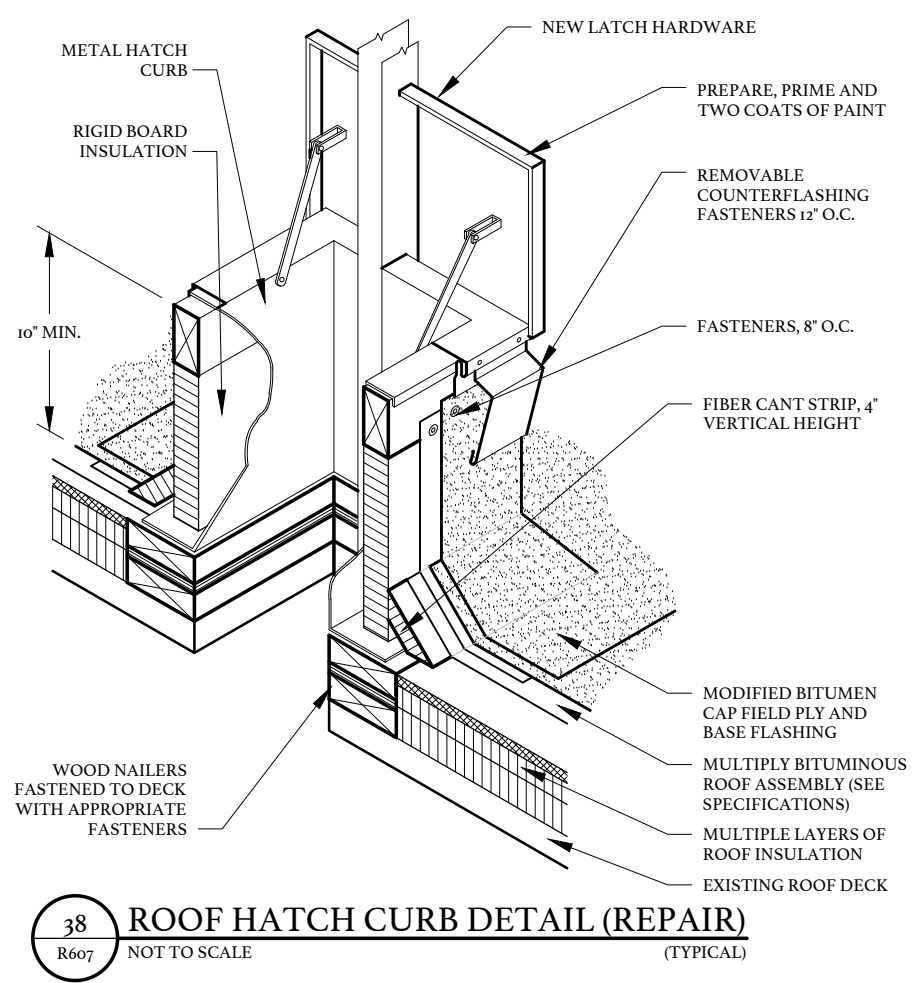


NOTES:

- ALUMINUM LADDER MEETING REQUIREMENTS OF ANSI 14.3 AND OSHA REQUIREMENTS
- AT GRADE, PROVIDE A HINGED METAL COVER TO LADDER WITH LOCK/HATCH TO SECURE.

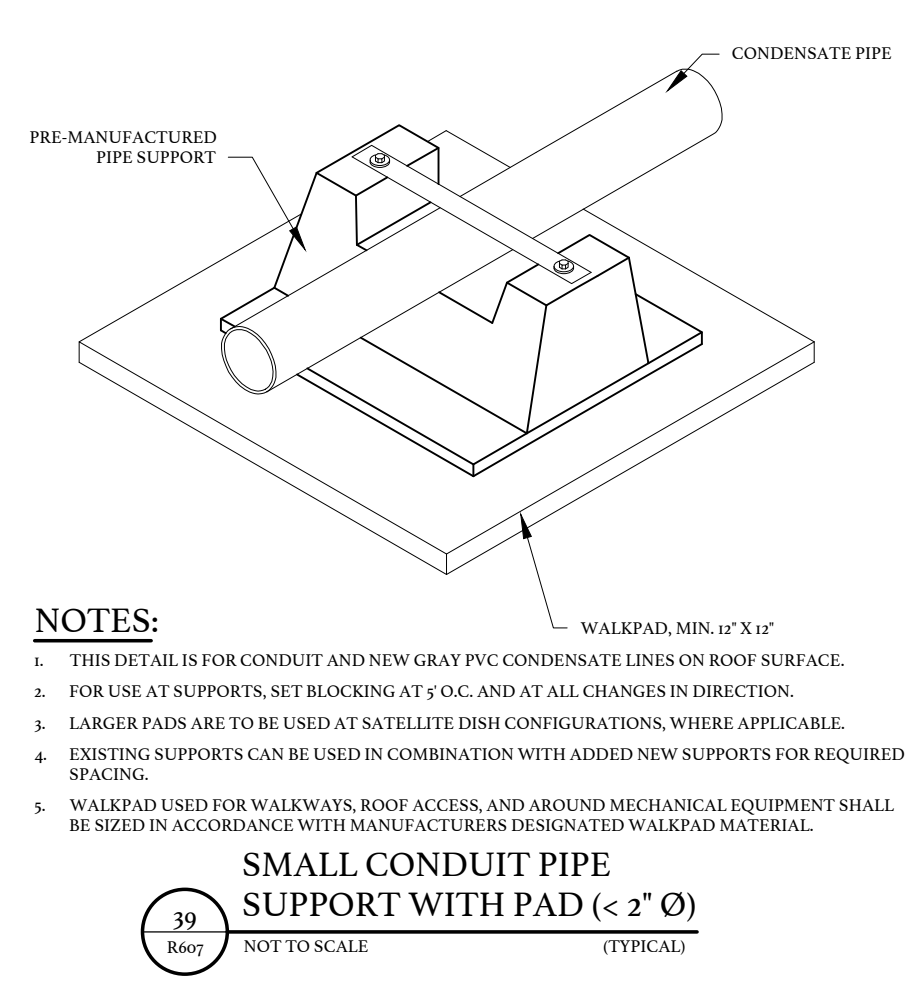
37
R607

ROOF ACCESS LADDER AT PARAPET DETAIL
NOT TO SCALE (TYPICAL)



38
R607

ROOF HATCH CURB DETAIL (REPAIR)
NOT TO SCALE (TYPICAL)

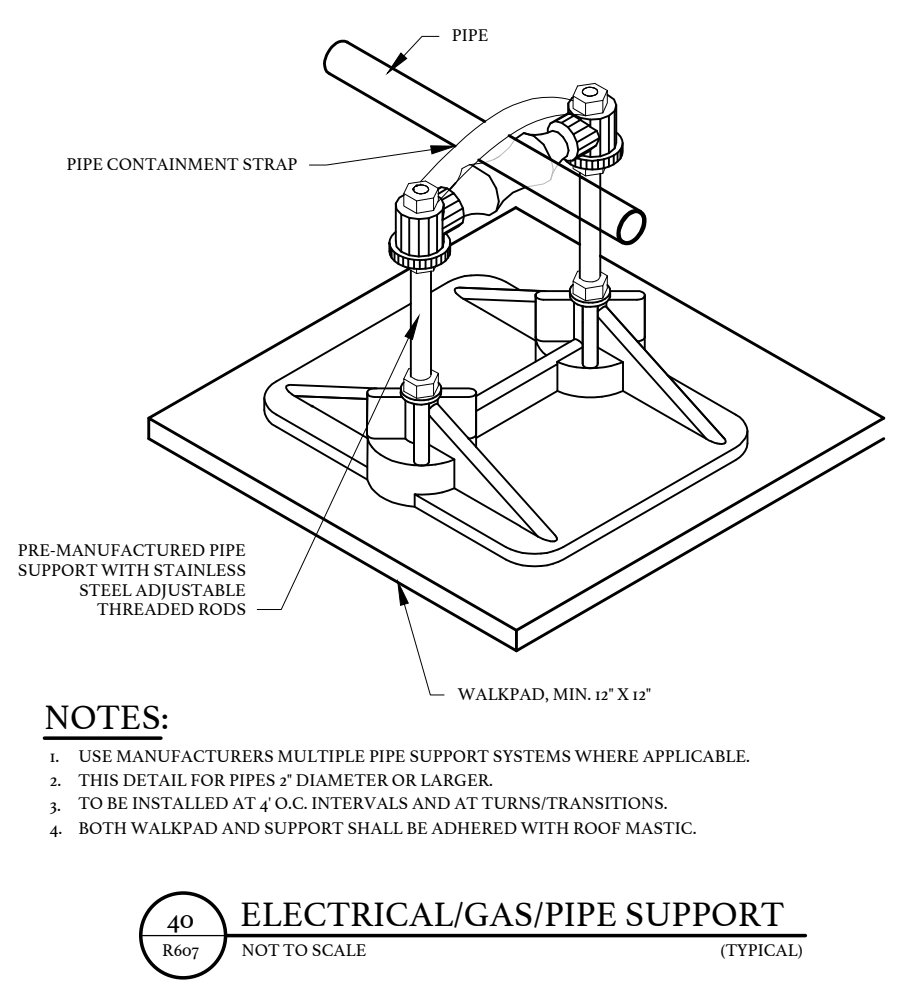


NOTES:

- THIS DETAIL IS FOR CONDUIT AND NEW GRAY PVC CONDENSATE LINES ON ROOF SURFACE.
- FOR USE AT SUPPORTS, SET BLOCKING AT 5' O.C. AND AT ALL CHANGES IN DIRECTION.
- LARGER PADS ARE TO BE USED AT SATELLITE DISH CONFIGURATIONS, WHERE APPLICABLE.
- EXISTING SUPPORTS CAN BE USED IN COMBINATION WITH ADDED NEW SUPPORTS FOR REQUIRED SPACING.
- WALKPAD USED FOR WALKWAYS, ROOF ACCESS, AND AROUND MECHANICAL EQUIPMENT SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURERS DESIGNATED WALKPAD MATERIAL.

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R607

SMALL CONDUIT PIPE SUPPORT WITH PAD (< 2" Ø)
NOT TO SCALE (TYPICAL)

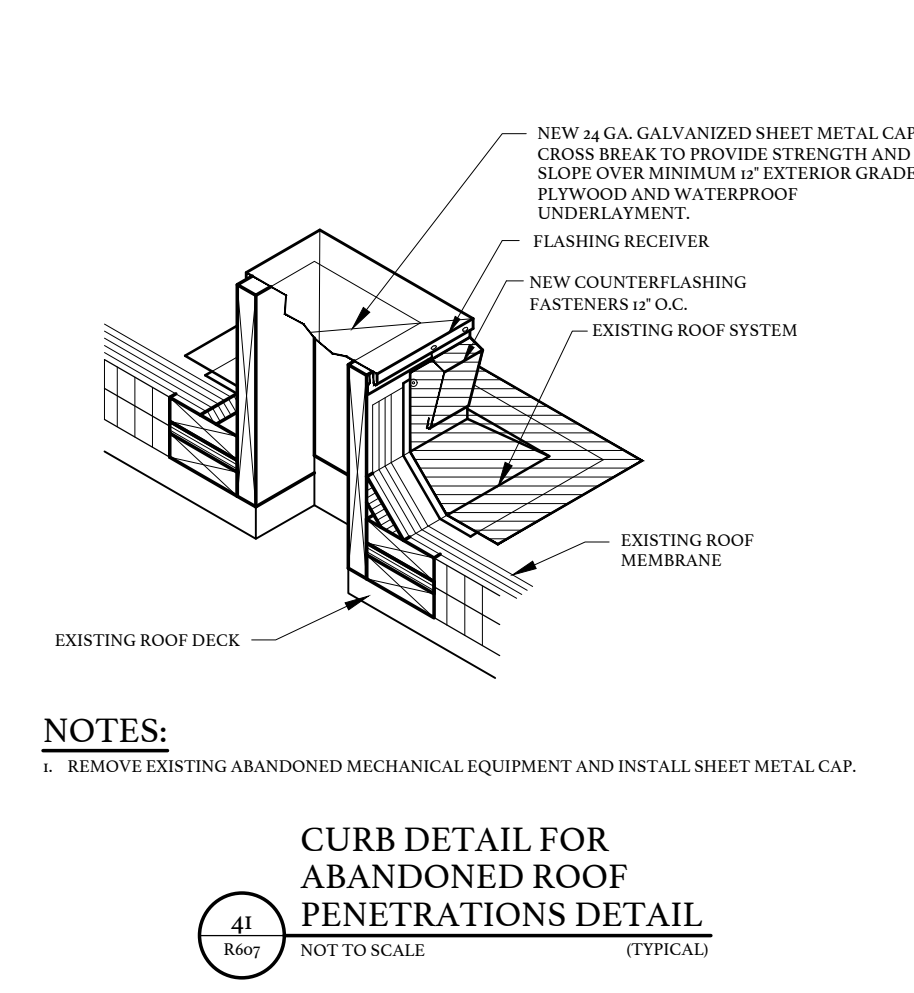


NOTES:

- USE MANUFACTURERS MULTIPLE PIPE SUPPORT SYSTEMS WHERE APPLICABLE.
- THIS DETAIL FOR PIPES 2" DIAMETER OR LARGER.
- TO BE INSTALLED AT 4' O.C. INTERVALS AND AT TURNS/TRANSITIONS.
- BOTH WALKPAD AND SUPPORT SHALL BE ADHERED WITH ROOF MASTIC.

40
R607

ELECTRICAL/GAS/PIPE SUPPORT
NOT TO SCALE (TYPICAL)



NOTES:

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

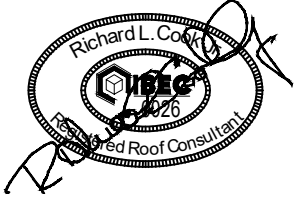
41
R607

CURB DETAIL FOR ABANDONED ROOF PENETRATIONS DETAIL
NOT TO SCALE (TYPICAL)

INTENTIONALLY LEFT BLANK

42
R607

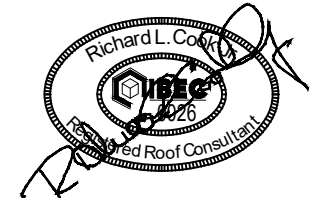
NOT USED



DATE:	06/01/2022
BEE PROJECT #:	21066
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	BSC/KAM
REVISION:	

DETAILS/SECTIONS

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CENTRAL CAROLINA TECHNICAL COLLEGE

F.E. DUBOSE CAMPUS
ROOF REPLACEMENT

OWNER PROJECT NUMBER: H59-6775-PD
BEE PROJECT NUMBER: 21066

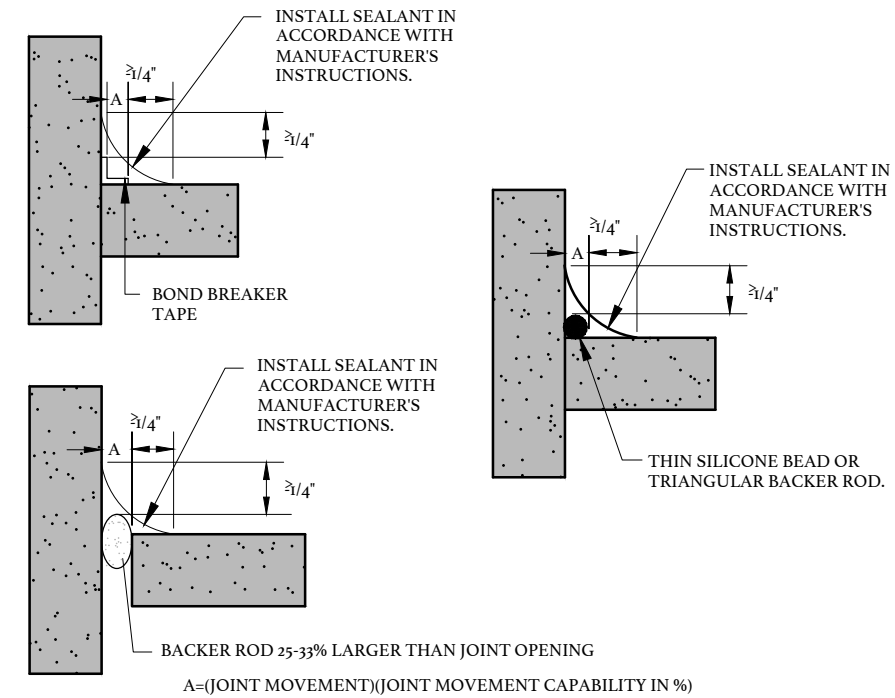
3351 SUMTER HWY
MANNING, SOUTH CAROLINA

DATE:	06/01/2022
BEE PROJECT #:	21066
DESIGNED:	RLC
CHECKED:	JCG
DRAWN:	BSC/KAM
REVISION:	

DETAILS/SECTIONS

R608

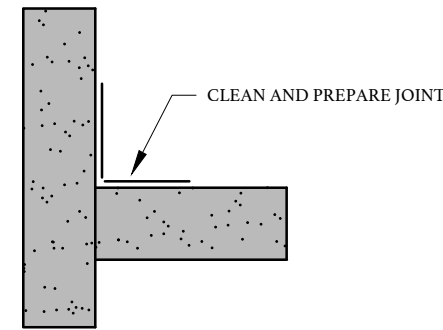
SHEET 30 OF 30



NOTES:

- EXISTING CONDITIONS WILL DICTATE TYPE OF FILLET JOINT SPACE (SHOWN ABOVE) TO BE USED.
- CONTRACTOR OPTIONS FOR BOND BREAKER/BACKER ROD FOR CORNER/FILLET JOINT.
- SEALANT SHALL BE MINIMUM 1/4" THICK.

PROVIDE CORNER/FILLET JOINT OPTIONS
STEP THREE

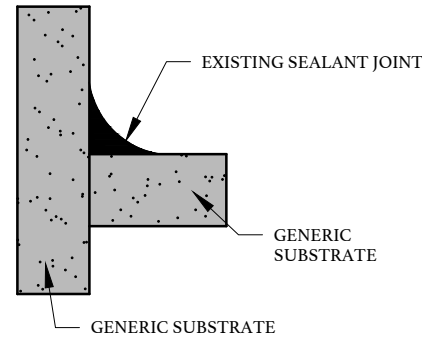


NOTES:

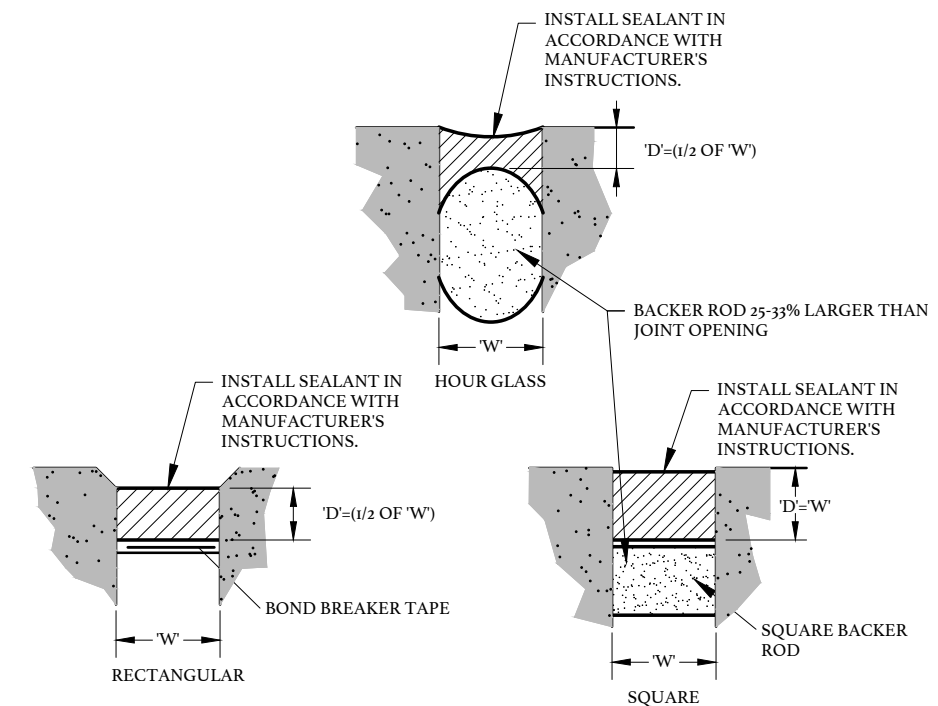
- A SEALANT IS NO BETTER THAN THE SURFACE TO WHICH IT IS ATTACHED. PROPER PREPARATION IS CRITICAL.
- THE MANUFACTURERS INSTRUCTIONS MUST BE CAREFULLY FOLLOWED TO OBTAIN PROPER SEALANT ADHESION.
- ADHERE TO THE JOINT DESIGN AND APPLICATION REQUIREMENTS.
- CONTRACTOR OPTIONS FOR BOND BREAKER/BACKER ROD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

PREPARE CORNER/FILLET JOINT
STEP TWO

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R608 **CORNER/FILLET JOINT**
NOT TO SCALE (TYPICAL)



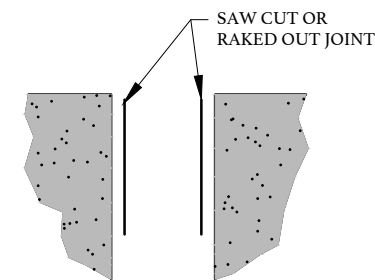
EXISTING CORNER/FILLET JOINT
STEP ONE



NOTES:

- EXISTING CONDITIONS WILL DICTATE TYPE OF STANDARD JOINT SPACE (SHOWN ABOVE) TO BE USED.

PROVIDE STANDARD JOINT OPTIONS
STEP THREE

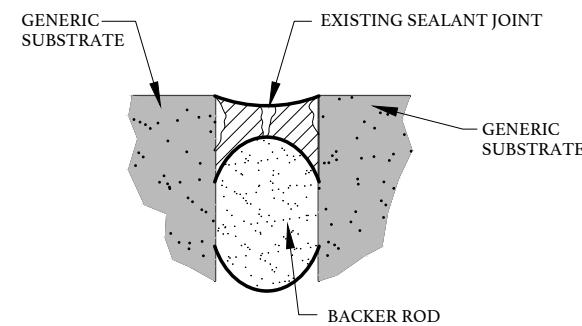


NOTES:

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

PREPARE STANDARD JOINT
STEP TWO

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R608 **STANDARD JOINT DETAIL**
NOT TO SCALE (TYPICAL)



EXISTING STANDARD JOINT
STEP ONE