

(636) 391-2185



VARIOUS LOCATIONS - ROOF REPLACEMENTS

ENERGY MANAGEMENT & MISSOURI ATHLETIC TRAINING CENTER COLUMBIA, BOONE COUNTY, MISSOURI 65211

DATE: FEBRUARY 11, 2025 PROJECT NO.: CP243181

FOR: THE CURATORS OF THE UNIVERSITY OF MISSOURI



CODES AND STANDARDS:

CONSULTANT PROCEDURES
D DESIGN GUIDELINES:
RRENT EDITION

CURRENT EDIT	ΓΙΟΝ
IBC:	2021
IBD:	2021
IMC:	2021
IPC:	2021
IFC:	2021
IFGC	2018
NEC:	2020
NFPA 13:	2019
NFPA 14:	2019
NFPA 20:	2019
NFPA 45:	2019
NFPA 72:	2019
NFPA 90A:	2018
NFPA 96:	2017
NFPA 99:	2012
NFPA 101:	2012
NFPA 110:	2019
ASHRAE 90.1:	2019
ASME A17.1:	2016
ADA	2017

INDEX of DRAWINGS

	11/11/2024 - ISSUED FOR CONSTRUCTION					RE	VISION	DESCF	RIPTION			
SHEET NO.	SHEET TITLE	SHEET TYPE		1	2	3	4	5	6	7	8	9
A100	COVER SHEET (THIS SHEET)	DIRECTORY	Δ									
A101	ENERGY MANAGEMENT SITE COORDINATION PLAN	SITE PLAN	Δ									
A102	ENERGY MANAGEMENT DEMOLITION ROOF PLAN	ROOF PLAN	Δ									
A103	ENERGY MANAGEMENT RENOVATION ROOF PLAN	ROOF PLAN	Δ									
A201	ENERGY MANAGEMENT DETAILS	ROOF DETAILS	Δ									
A202	ENERGY MANAGEMENT DETAILS	ROOF DETAILS	Δ									
A203	ENERGY MANAGEMENT DETAILS	ROOF DETAILS	Δ									
A301	MATC SITE COORDINATION PLAN	SITE PLAN	Δ									
A302	MATC DEMOLITION ROOF PLAN	ROOF PLAN	Δ									
A303	MATC RENOVATION ROOF PLAN	ROOF PLAN	Δ									
A401	MATC DETAILS	ROOF DETAILS	Δ									
A402	MATC DETAILS	ROOF DETAILS	Δ									
A403	MATC DETAILS	ROOF DETAILS	Δ									
A404	MATC DETAILS	ROOF DETAILS	Δ									
A405	MATC DETAILS	ROOF DETAILS	Δ									
A406	MATC DETAILS	ROOF DETAILS	Δ									
A407	MATC DETAILS	ROOF DETAILS	Δ									

I HEREBY CERTIFY THAT DRAWINGS AND/OR SPECIFICATIONS HAVE BEEN PREPARED BY ME, OR UNDER MU SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE DRAWINGS AND/OR SPECIFICATIONS ARE AS REQUIRED BY AND IN COMPLIANCE WITH BUILDING CODES OF THE UNIVERSITY OF MISSOURI.

SIGNATURE:



PROJECT NOTES:

- 1. ANY OPERATION WHERE HIGH LEVELS OF NOISE ARE EXPECTED ON THE CONSTRUCTION SITE WILL NEED TO BE COORDINATED AND APPROVED WITH THE OWNER'S REPRESENTATIVE AT LEAST 48 HOURS PRIOR TO THE WORK BEING INITIATED.
- 2. DISCONNECTION OR INTERRUPTION OF ANY BUILDING SYSTEMS OR SERVICES MUST BE COORDINATED WITH OWNER'S REPRESENTATIVE AT LEAST 72 HOURS PRIOR TO WORK BEING PERFORMED, CONTRACTOR'S WORK SHALL BE CONTINUOUS UNTIL UTILITY IS RESTORED.
- 3. AREAS NOT UNDER CONSTRUCTION SHALL BE MAINTAINED FOR PUBLIC ACCESS AND CIRCULATION. CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTS AND MAINTAIN TEMPERATURE AND HUMIDITY CONTROL WITHIN THE WORK AREA DURING THE CONSTRUCTION OF THE PROJECT AS DIRECTED BY OWNER'S REPRESENTATIVE AND AS REQUIRED FOR THE SAFETY AND SECURITY OF THE PUBLIC.
- 4. CONTRACTOR SHALL MAINTAIN AND KEEP ALL EXISTING MEANS OF EGRESS BARRIER-FREE.
- 5. CONTRACTOR SHALL MAINTAIN AND PROTECT THE EXISTING CONDITIONS IN THE WORK AREA UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL TAKE PHOTOGRAPHS OF INTERIOR AND EXTERIOR AREAS DOCUMENTING EXISTING CONDITIONS BEFORE PROCEEDING WITH THE WORK. ANY DAMAGE DONE TO EXISTING CONDITIONS DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE WITHOUT ADDITIONAL COST THE THE OWNER.
- 6. EVERY DIMENSION THAT IS DIRECTLY OR INDIRECTLY RELATED TO EXISTING CONDITIONS OR CONSTRUCTION SHALL BE CAREFULLY MEASURED AND COORDINATED WITH ADJACENT CONDITIONS. CONTRACTOR SHALL REPORT DISCREPANCIES, EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS TO THE OWNER'S REPRESENTATIVE AND/OR ARCHITECT PRIOR TO BEGINNING THE WORK.
- 7. CONTRACTOR SHALL CONTAIN ALL CONSTRUCTION ACTIVITY, INCLUDING STORAGE OF MATERIAL AND EQUIPMENT, WITHIN THE CONSTRUCTION LIMITS. THE ROOFING CONTRACTOR MUST INSTALL A SAFETY FENCE 6' FROM THE PERIMETER OF THE STORED ROOFING MATERIALS WITHIN THE PRE-DETERMINED STAGING AREA. MATERIALS ARE TO STORED WITH A TARP COVERING OF SUFFICIENT MIL THICKNESS WHICH HAS BEEN PROPERLY WEIGHED DOWN. LIQUID MATERIALS (SUCH AS GASOLINE, MEMBRANE ADHESIVE, WEATHERED MEMBRANE CLEANER, ETC.) ARE TO ONLY BE STORED ON THE ROOF NEAR ROOFING SECTION UNDER REPLACEMENT..
- 8. CONTRACTOR SHALL PROVIDE TEMPORARY DIRECTIONAL SIGNAGE AS WELL AS CONSTRUCTION SIGNAGE NOTIFYING THE PUBLIC OF CONSTRUCTION LIMITS, AS NEEDED.
- . CONTRACTOR SHALL SECURE AND PROTECT THE WORK AREA AT THE END OF EACH DAY.
- 10. CONTRACTOR SHALL MAKE ALLOWANCES FOR AMPLE EXPANSION AND CONTRACTION FOR ELECTRICAL, STRUCTURAL AND OTHER BUILDING COMPONENTS SUBJECT TO SUCH MOVEMENT, INSTALL SLEEVES, RECESSES AND OPENING IN THE WORK TO RECEIVE MATERIALS INSTALLED BY OTHER TRADES.

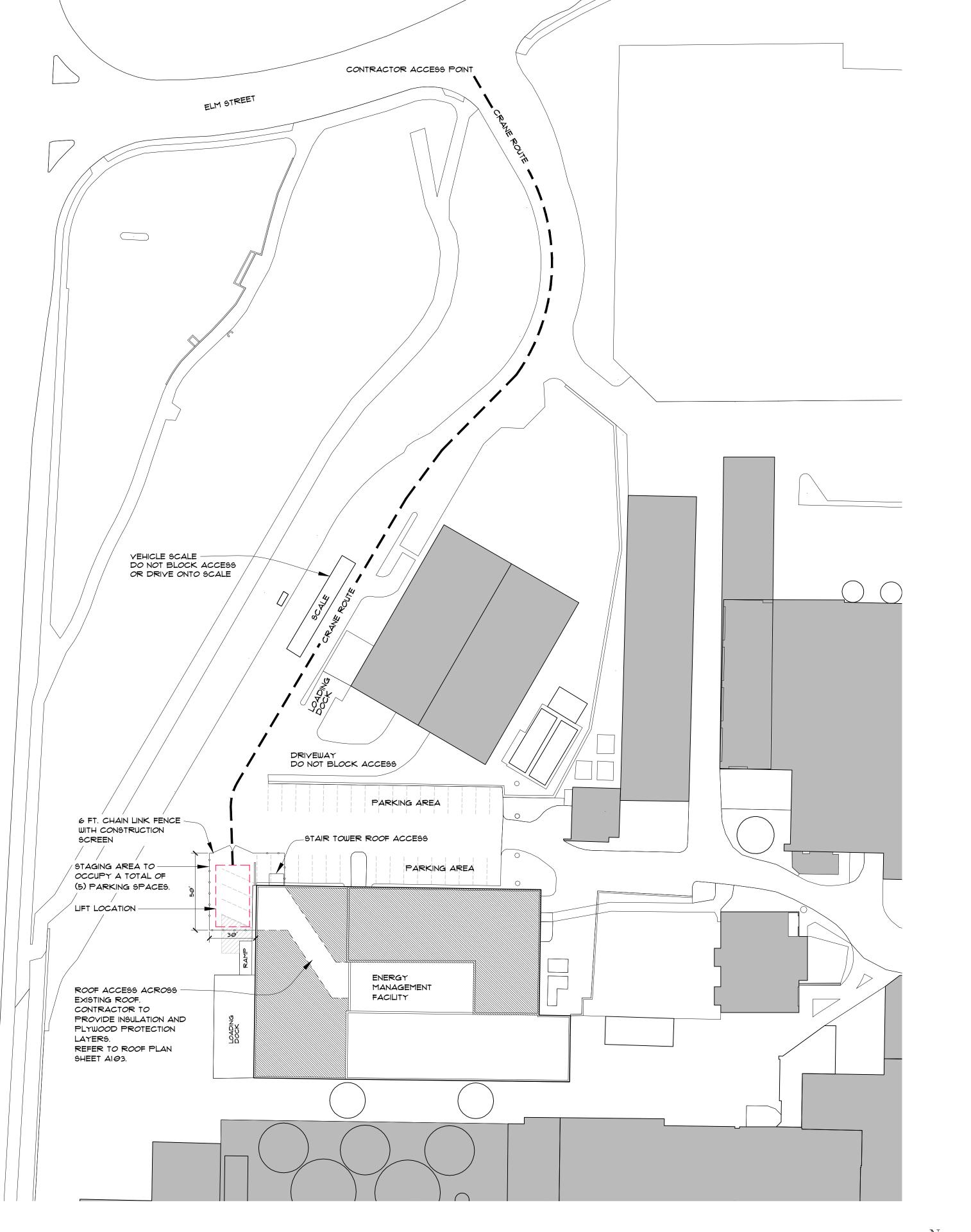
PROJECT NOTES: (CONT.)

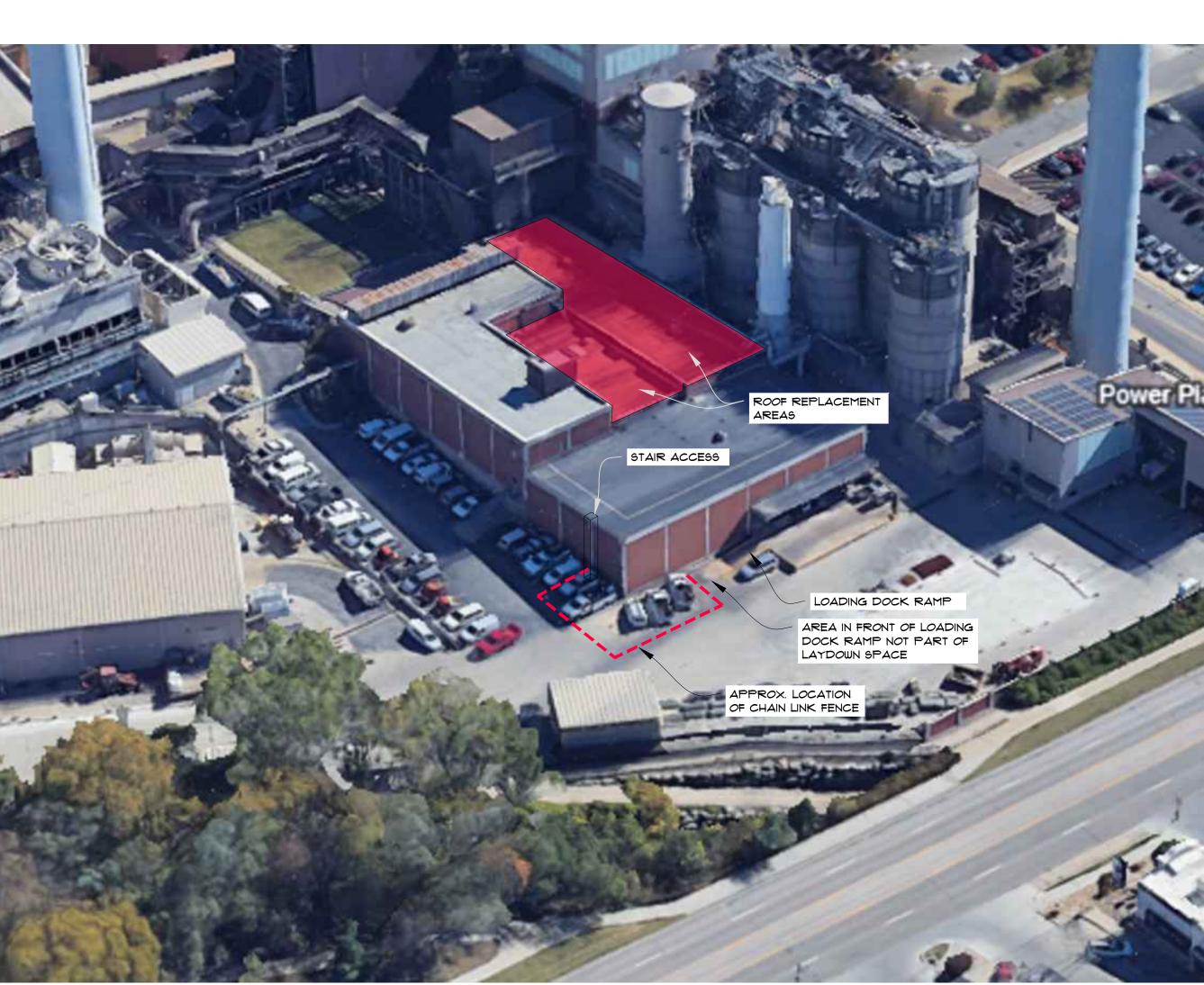
- 11. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS AND SEQUENCES OF CONSTRUCTION AND THE SAFETY OF CONSTRUCTION PERSONNEL AND AUTHORIZED VISITORS.
- 12. NO STANDING, STAGING OR PARKING IN FIRE LANE. ACCESS OF LIMITED FOR STOCKING AND HAUL-OFF. ALL LOADING AND HAUL-OFF ACTIVITY WILL BE DAILY; NO HOURLY LIMIT ON STOCKING AND HAUL-OFF HOURS.
- 13. CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING ROOF MEMBRANE DURING DEMOLITION.
- 14. UNIVERSITY STAFF AND STUDENT'S HOLD THE RIGHT-OF-WAY AT ALL TIMES DURING ROOF CONSTRUCTION, ESPECIALLY DURING CAMPUS SURGICAL EVENTS...
- 15. AS OF 2018, SMOKING AND THE USE OF TOBACCO OR SMOKELESS TOBACCO PRODUCTS BY STUDENTS, FACULTY, STAFF AND VISITORS ARE PROHIBITED ON ALL MISSOURI STATE UNIVERSITY PROPERTIES EXCEPT; 1. WHILE INSIDE OF A PERSONAL VEHICLE 2. WITHIN THE DESIGNATED SMOKING AREAS OUTSIDE GREAT SOUTHERN BANK ARENA, PLASTER STADIUM, HAMMONS STUDENT CENTER, AND JUANITA K. HAMMONS HALL DURING PERFORMANCES OR EVENTS.

LANDSCAPE NOTES

- 1. VEHICLES ARE TO USE DESIGNATED CONSTRUCTION ENTRANCES AS INDICATED ON DRAWINGS OR CONSTRUCTION DOCUMENTS. IF NO CONSTRUCTION ROUTE IS INDICATED VEHICLES ARE RESTRICTED TO SIDEWALKS OR PAVED AREAS. ALL CONSTRUCTION EQUIPMENT AND OR VEHICLES SHALL VERIFY THE WEIGHT LIMIT AND RESTRICTION ON PAVEMENT PRIOR TO CONSTRUCTION AND NOTIFY OWNER'S REPRESENTATIVE OF THE PLANNED ROUTE.
- THERE SHALL BE NO VEHICLE MOVEMENT IN ANY LANDSCAPED, SHRUB OR PERENNIAL AREAS, MULCH BED AND/OR TREE CANOPY DRIP AND ROOT ZONES, WITHOUT PRIOR NOTIFICATION AND APPROVAL FROM LANDSCAPE SERVICES. LANDSCAPE SERVICES REQUIRES ONE WEEK NOTICE PRIOR TO ANY VEHICLE MOVEMENT IN THESE AREAS.
- 3. WHERE ACCESS TO BUILDING REQUIRES CROSSING TURF, MULCH AREAS, TREE ROOT SYSTEMS, TREE CANOPY ZONES, OR IRRIGATION SYSTEMS, THE CONTRACTOR SHALL USE ALTURNAMATS BY DICA OR APPROVED EQUAL.
- 4. VEHICLE ACCESS SHALL NOT BREAK OR RUB TREE BRANCHES. OWNER WILL PRUNE TREE BRANCHES TO PROVIDE CLEARANCE AROUND BUILDING ENTRANCE. OWNER REQUIRES ONE WEEK'S NOTICE FOR THIS WORK TO BE DONE.
- 5. DO NOT COMPACT GRADE WITHIN THE DRIP LINE OF TREES. PROVIDE APPROVED FENCING TO PREVENT DRIVING OR EQUIPMENT PARKING WITHIN DRIP LINE OF TREES, PRIOR TO CONSTRUCTION OR WORK IN THE PROJECT AREA. MU'S CAMPUS STANDARD 6' CHAIN LINK FENCE AND POSTS SHALL BE USED UNLESS OTHERWISE NOTED AND/OR APPROVED BY LANDSCAPE SERVICES.









SITE COORDINATION PLAN



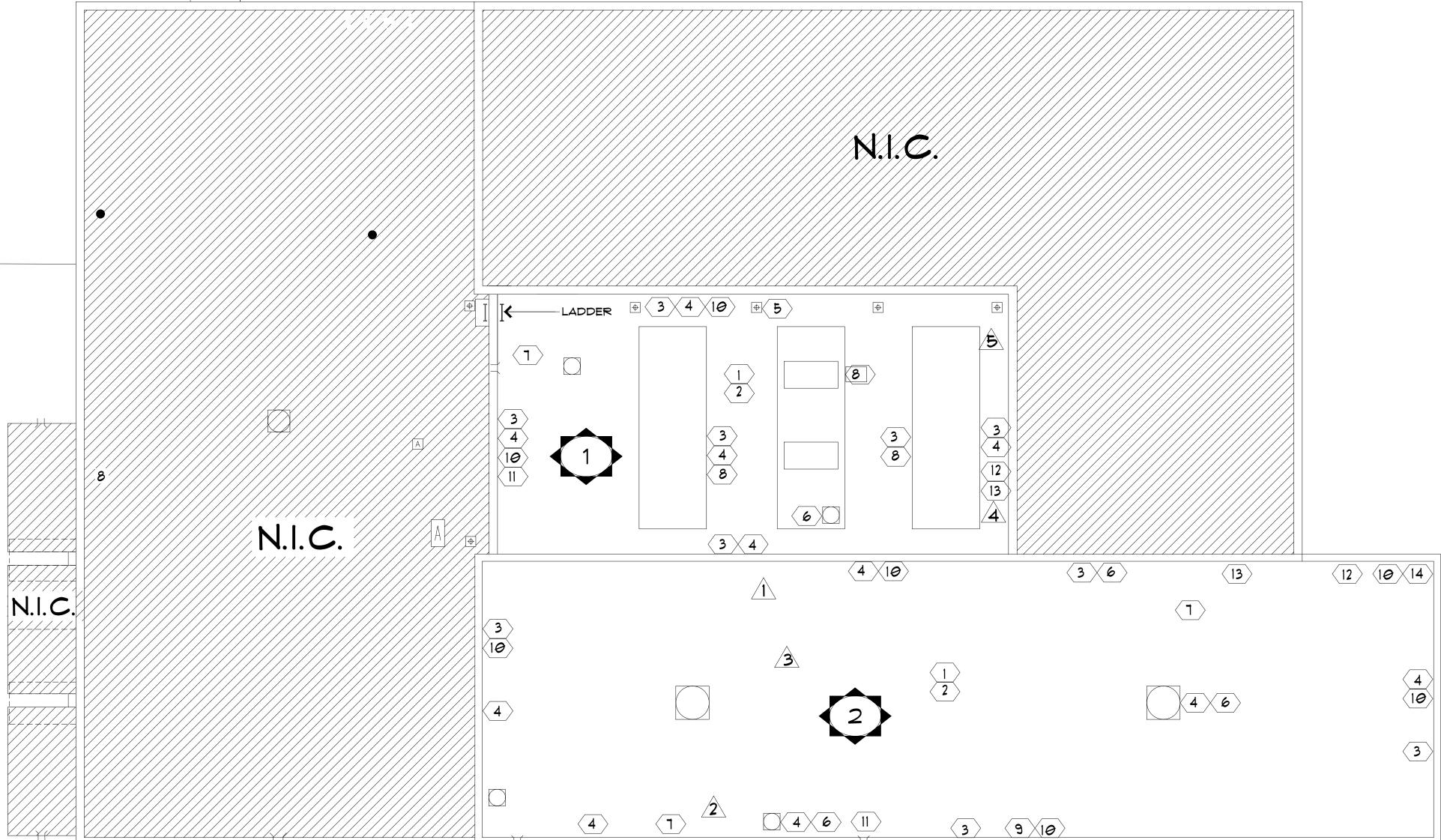
2 SITE PLAN OVERVIEW

65211 ACEMENTS MENT MISSOURI, (

PROJECT NUMBER CP243181

COLUMBIA,

VARIOUS



EXISTING ROOF CONSTRUCTION;

CORE $\sqrt{1}$ WOOD DECK, ROSIIN PAPER, BASE SHEET, 3" POLYISO, $\frac{1}{2}$ " PERLITE, 4 PLY ASPHALT AND GRAVEL BUR CORE 1 WOOD DECK, ROSIN PAPER, BASE SHEET, .5" POLYISO, 1" PERLITE, 1" PERLITE, 4 PLY ASPHALT AND GRAVEL BUR CORE 3 WOOD DECK, ROSIN PAPER, BASE SHEET, .5" POLYISO, 1" PERLITE, 1" PERLITE, 4 PLY ASPHALT AND GRAVEL BUR CORE 4 CONCRETE, VAPOR BARRIER, 3" POLYISO, $\frac{1}{2}$ " PERLITE 4 PLY ASPHALT AND GRAVEL BUR CORE $\sqrt{5}$ CONCRETE, VAPOR BARRIER, 3" POLYISO, $\frac{1}{2}$ " PERLITE 4 PLY ASPHALT AND GRAVEL BUR

DEMOLITION NOTES:

T. REMOVE ROOF TO ROOF DECK.

2. REMOVE VAPOR BARRIER/BASE SHEET.

3. REMOVE ALL ROOFING RELATED FLASHINGS.

4. REMOVE ALL ASSOCIATED SHEET METAL DETAILS.

5. EXISTING ROOF DRAINS TO REMAIN. REMOVE STRAINER AND CLAMPING RING FOR REINSTALLATION.

(6.) EXISTING CURB MOUNTED EQUIPMENT TO REMAIN. REMOVE SURROUNDING FLASHING.

1. EXISTING PLUMBING VENTS TO REMAIN. REMOVE ALL ASSOCIATED FLASHING.

8. REMOVE METAL DRIP EDGE.

AREA
2,900 9Q. FT.
5,130 9Q. FT.

N.I.C. AREA

9. REMOVE SHEET METAL COPING.

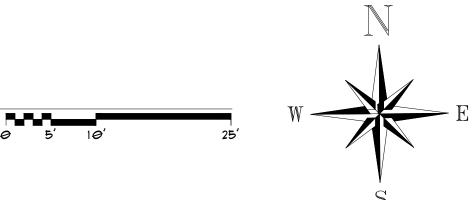
(10) REMOVE EXISTING OVERFLOW SCUPPER INSERTS. 11. REMOVE COUNTERFLASHING FROM RECEIVER CLIP.

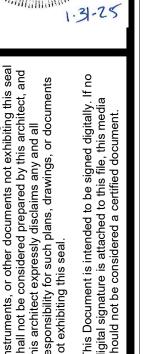
12. REMOVE FLASHING BELOW RECEIVER METAL.

13. REMOVE EXISTING CAULK ON NORTHEAST CORNER OF WALL AND ROOF.

ROOFING LEGEND KEY PLAN 9CALE: NT9 ROOF DRAIN DOMED VENTILATOR SOIL STACK CORE EXTRACTION RENOVATION KEY NOTE ROOF AREA IDENTIFIER SCUPPER CONTRACTOR/AREA

DEMOLITION PLAN SCALE: 3/32" = 1'-0"

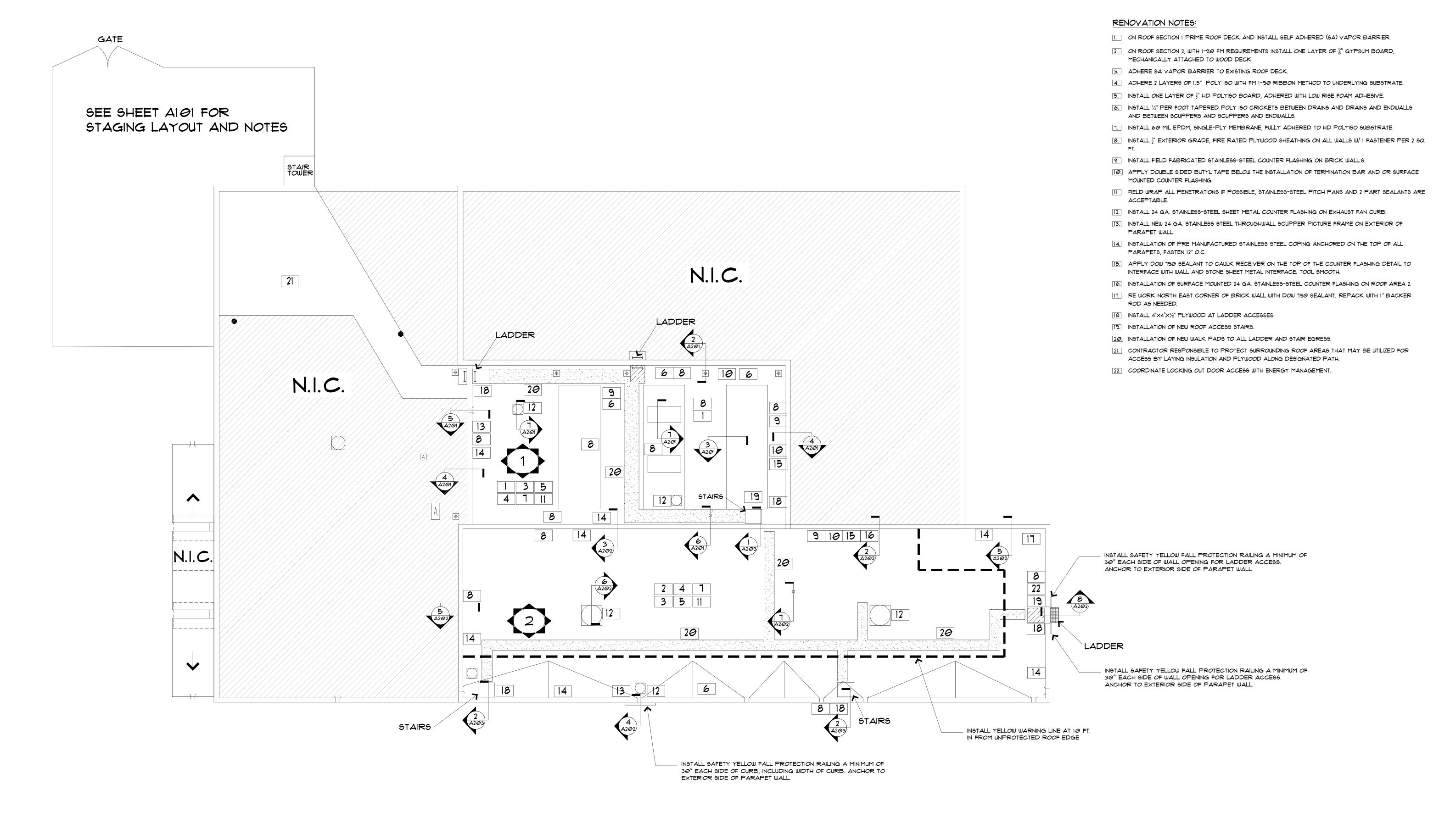




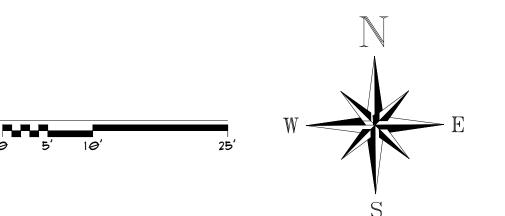
VARIOUS LOCATIONS - ROOF REPLACEMENTS
ENERGY MANAGEMENT
COLUMBIA, BOONE COUNTY, MISSOURI, 65211
RENOVATION PLAN

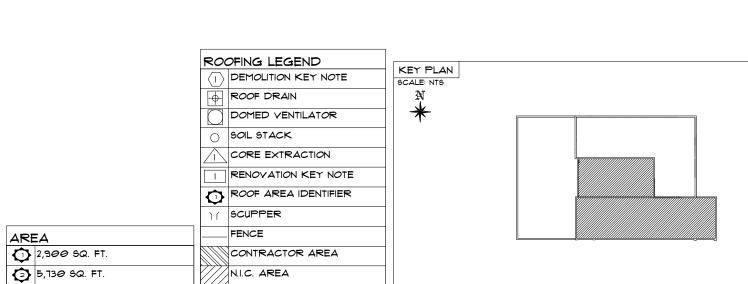
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information show instruments, or or shall not be constrained this architect expressibility for not exhibiting this digital signature is digital signature is should not be constrained.

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WATERPROOFING
CONSULTANTS, INC
410 SOVEREIGN COURT #18
MANCHESTER, MO 63011
(636)-391-2185

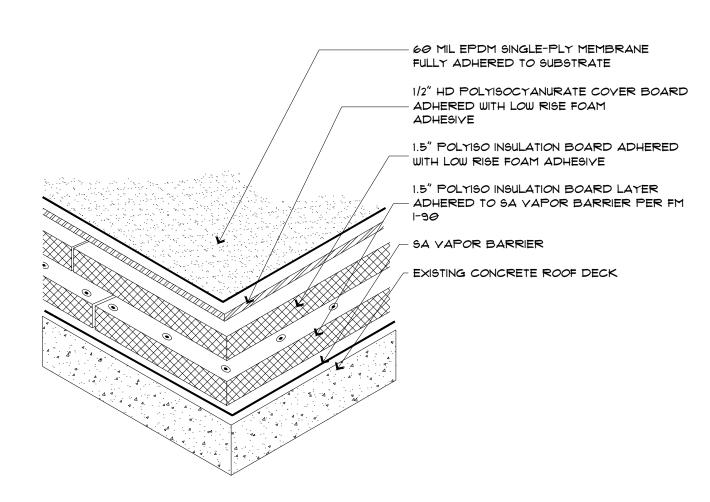
VARIOUS LOCATIONS - ROOF REPLACEMENT
ENERGY MANAGEMENT
COLUMBIA, BOONE COUNTY, MISSOURI, 65211
RENOVATION PLAN

PROJECT NUMBER

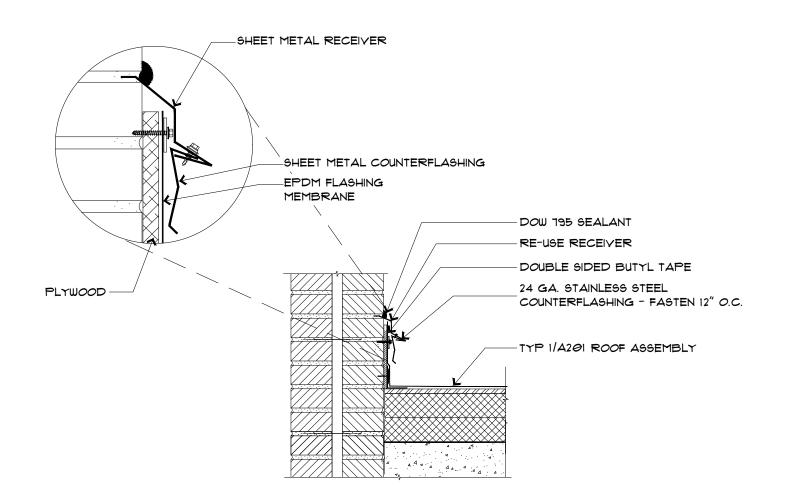
CP243181

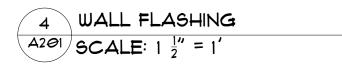
SHEET

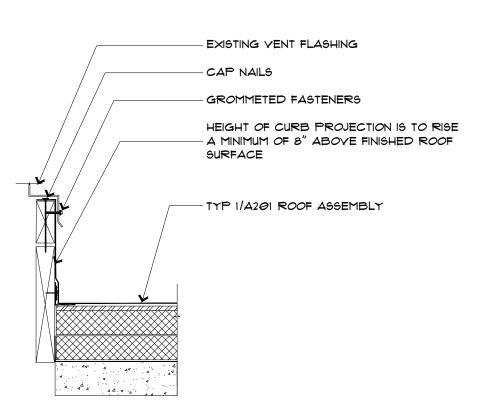
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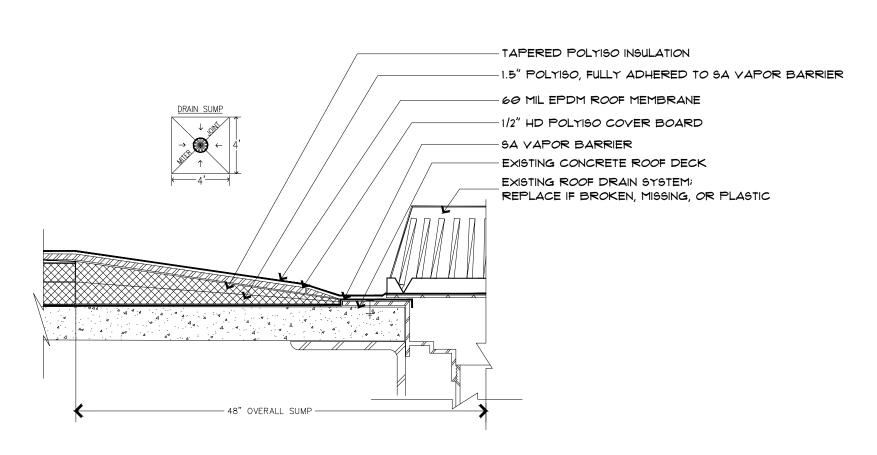




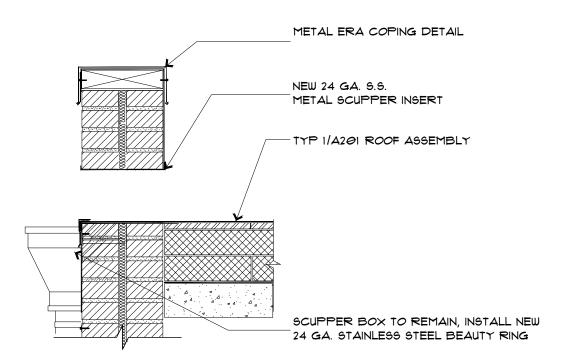




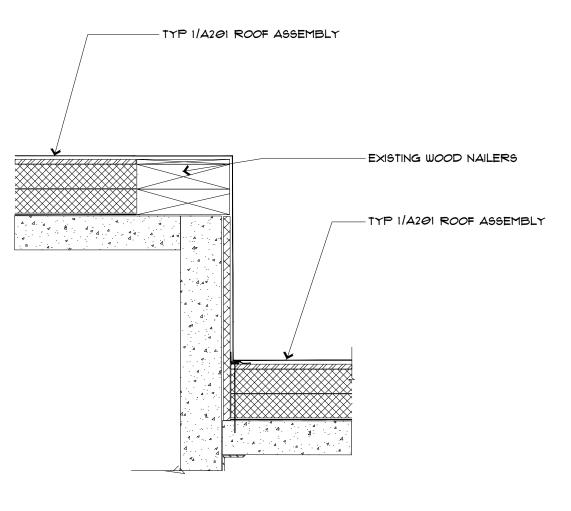
7 YENT CURB A201 SCALE: 1 1" = 1'



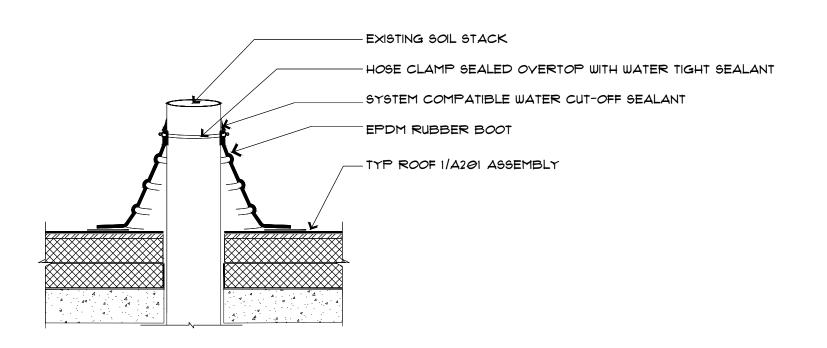




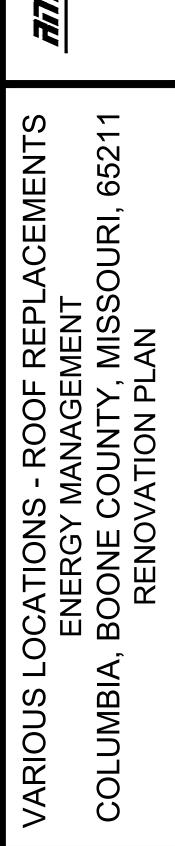




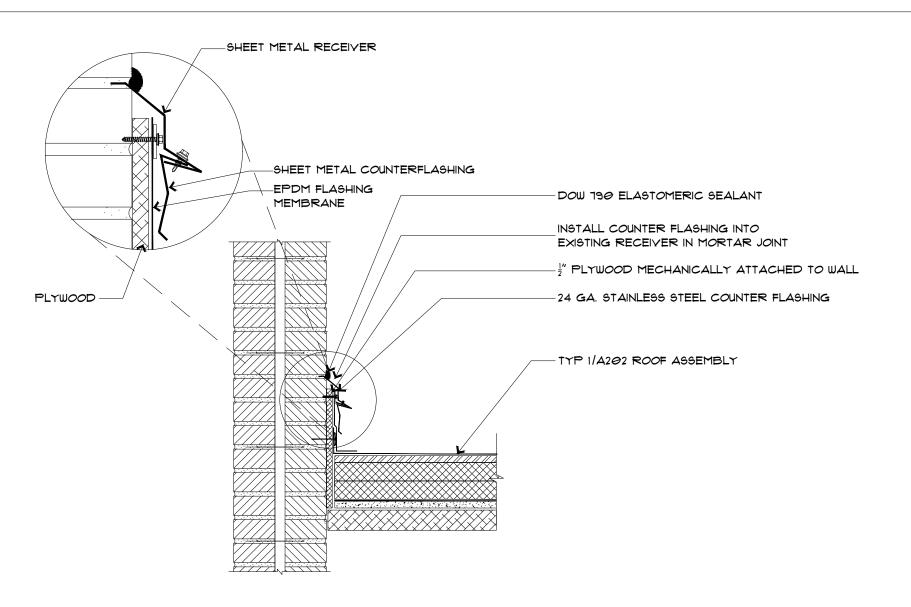


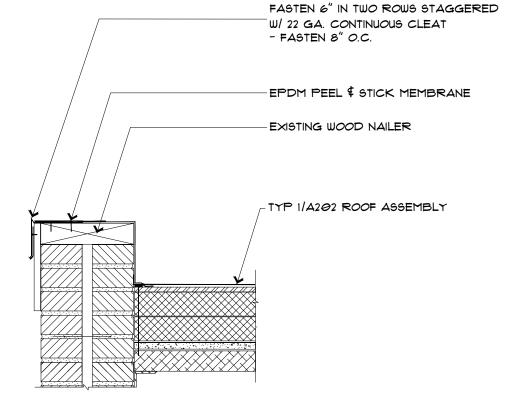






1 FIELD SECTION #2/TYP SCALE: $1\frac{1}{2}$ " = 1'

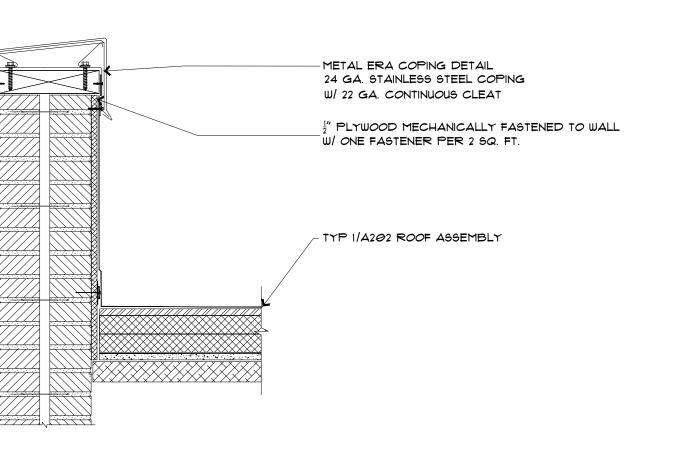


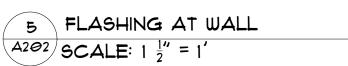


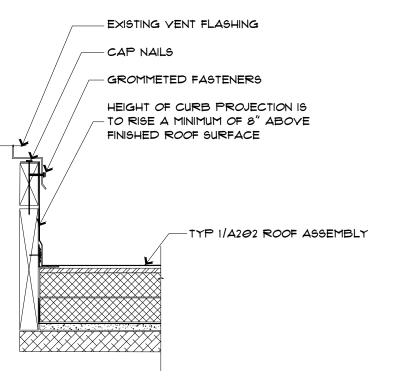
3 LOW PARAPET WALL SCALE: $1\frac{1}{2}$ = 1'

24 GA. STAINLESS STEEL FASCIA



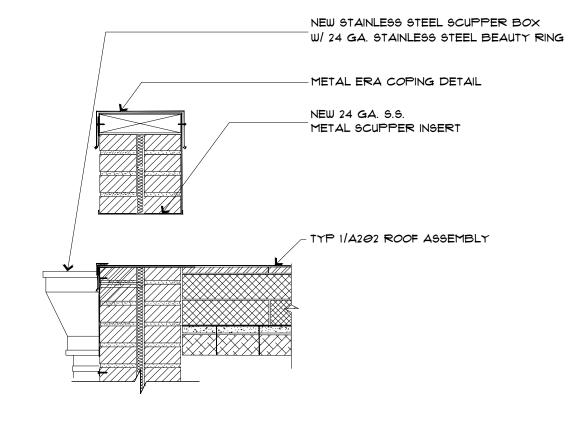




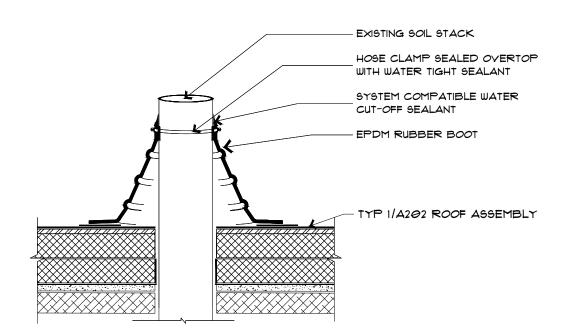


6 VENT CURB

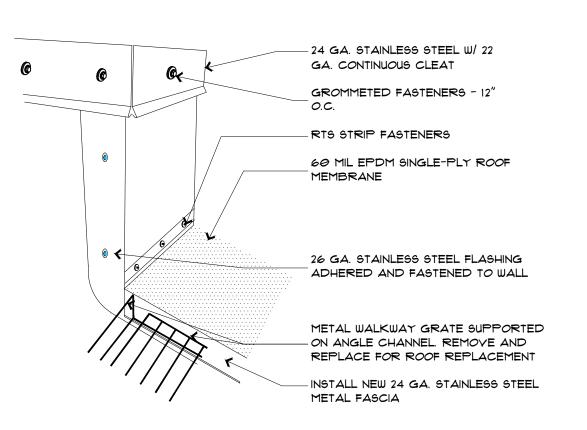
A202 SCALE: 1 ½" = 1'



4 SCUPPER A202 SCALE: 1 1" = 1'







8 PARAPET WALL OPENING A202 SCALE: 1 1/2" = 1'

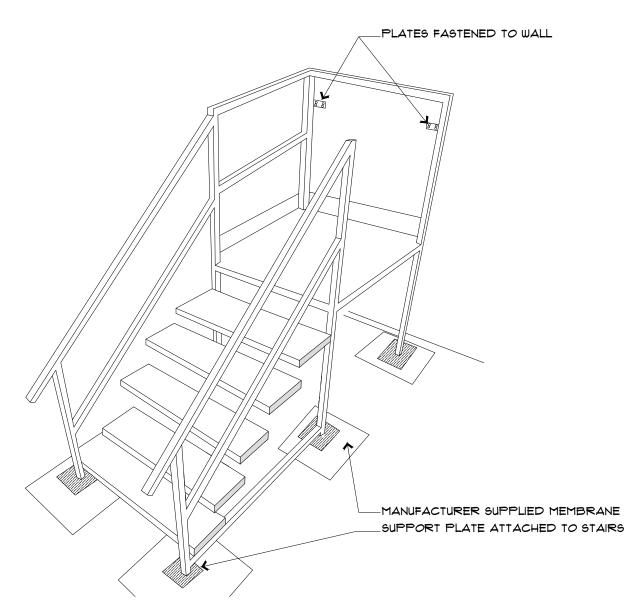
VARIOUS LOCATIONS - ROOF REPLACEMENT ENERGY MANAGEMENT COLUMBIA, BOONE COUNTY, MISSOURI, 65211 RENOVATION PLAN

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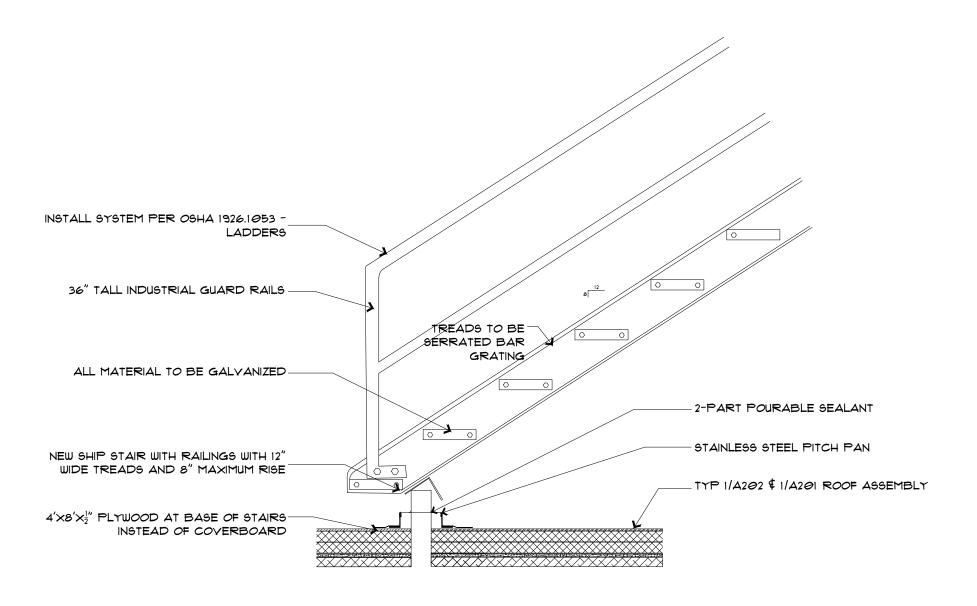
SHEET

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1 NEW STAIR INSTALLATION

A203 SCALE: NTS



2 STAIRS A203 SCALE: NTS PRUCHNICO WA-6457

REPLACEMENTS

AENT

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MANCHESTER, MO 63011

G36)-391-2185

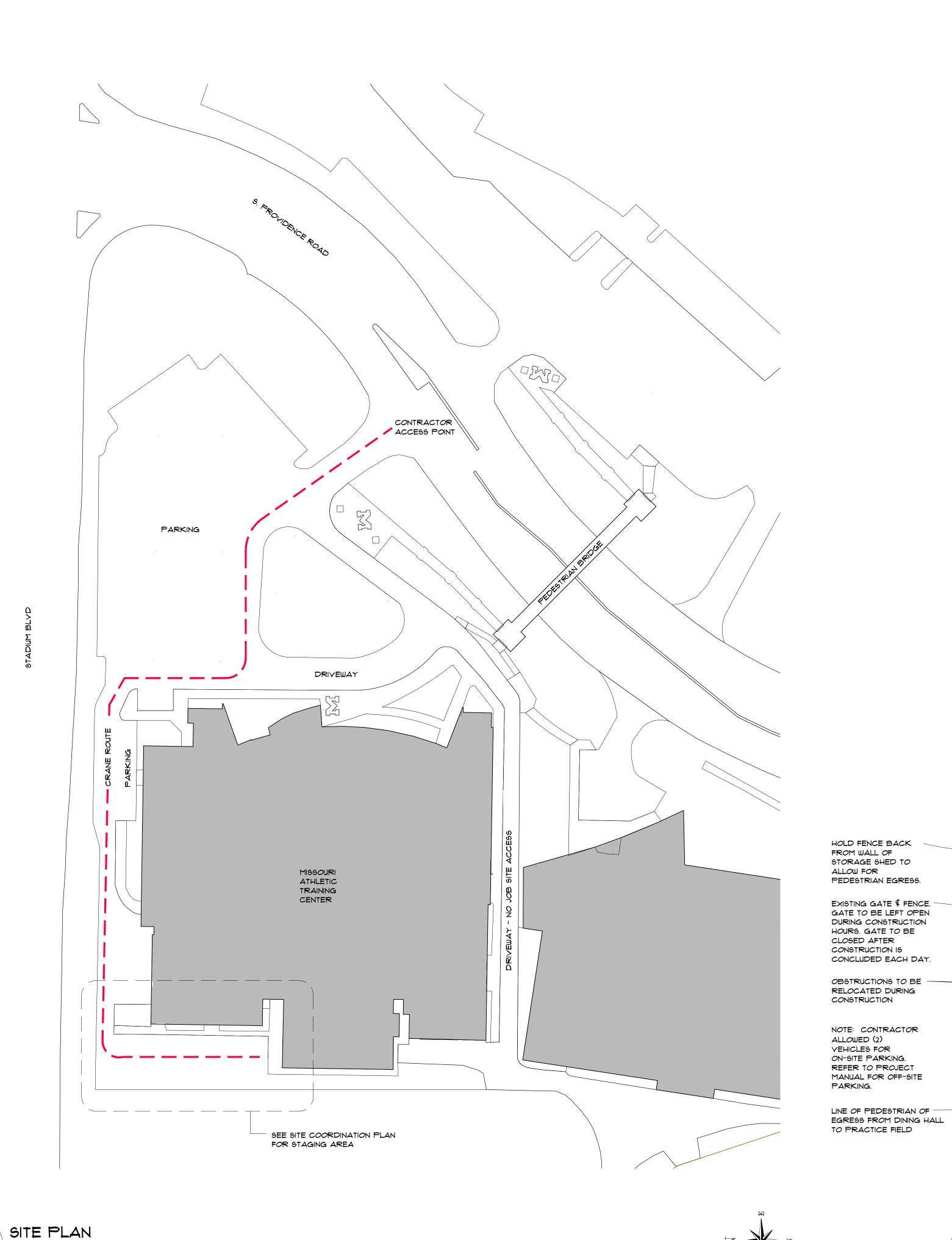
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VARIOUS LOCATIONS - ROOF REPLACEMENT
ENERGY MANAGEMENT
COLUMBIA, BOONE COUNTY, MISSOURI, 65211
RENOVATION PLAN

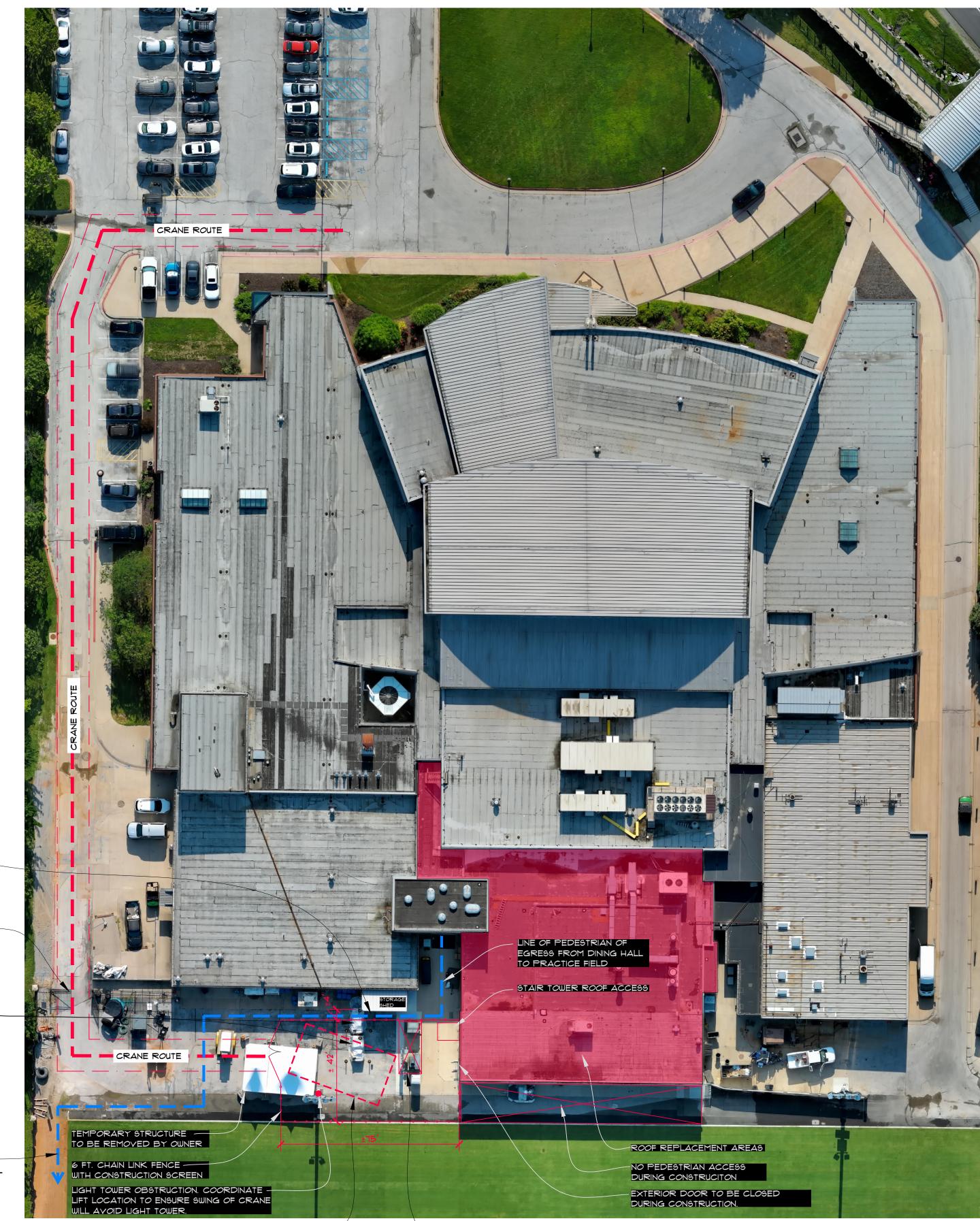
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A301 SCALE: N.T.S.



LIFT LOCATION — $(22' \times 30' \text{ MINIMUM SET-DOWN})$

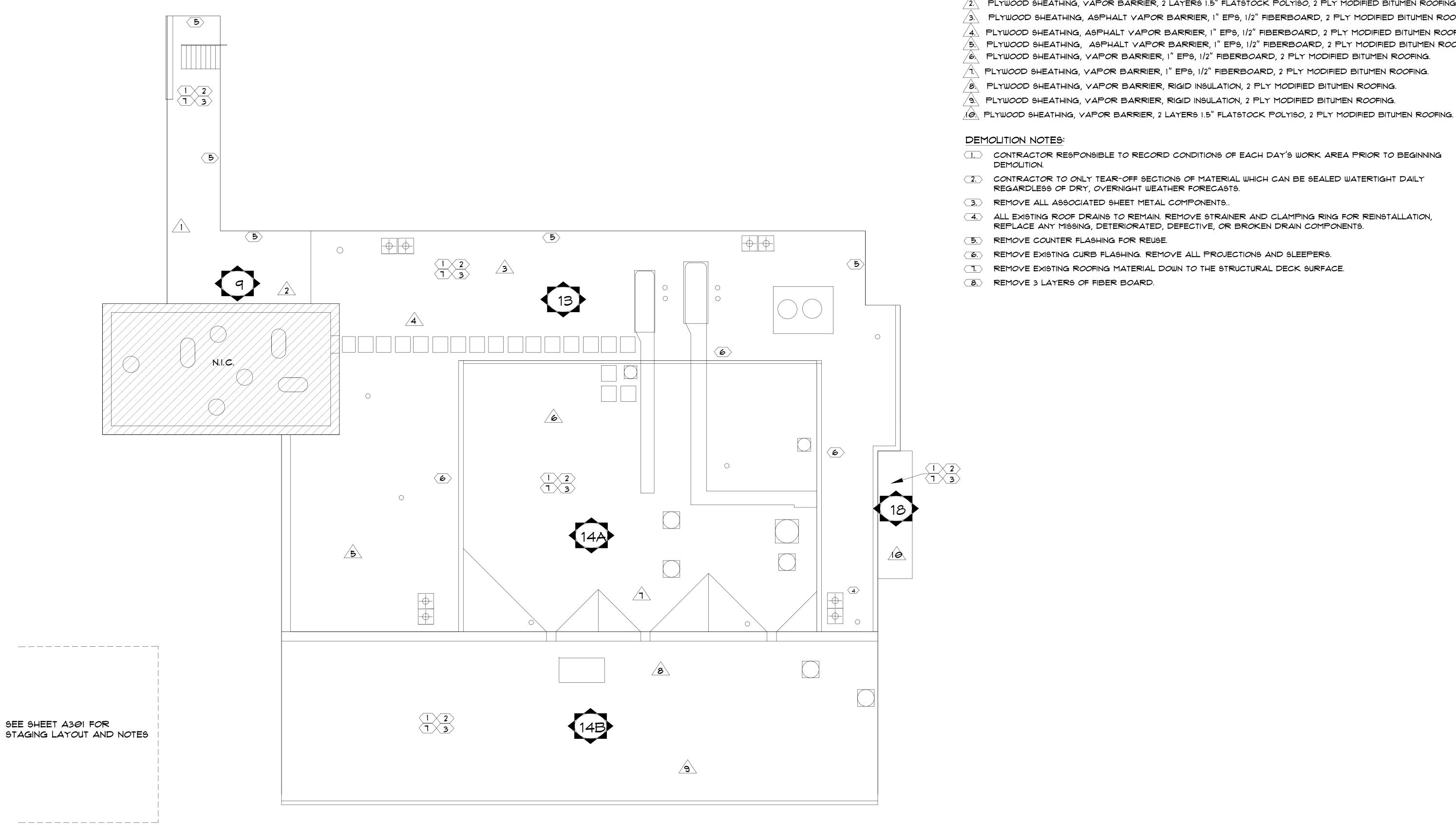
EXISTING ELECTRICAL EQUIPMENT TO REMAIN IN PLACE. CONTRACTOR TO PROVIDE PROTECTION FOR EQUIPMENT TO AVOID DAMAGE.

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VARIOUS LOCATIONS - ROOF REPLACEMENT MISSOURI ATHLETIC TRAINING CENTER COLUMBIA, BOONE COUNTY, MISSOURI, 652' RENOVATION PLAN

SITE COORDINATION PLAN A301 SCALE: N.T.S.



DEMOLITION PLAN

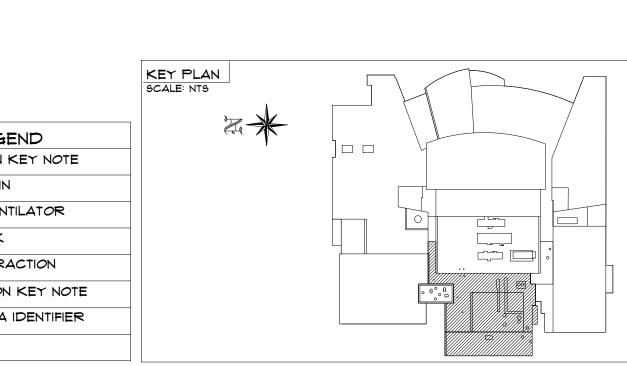
SCALE: 1/8" = 1'-0"

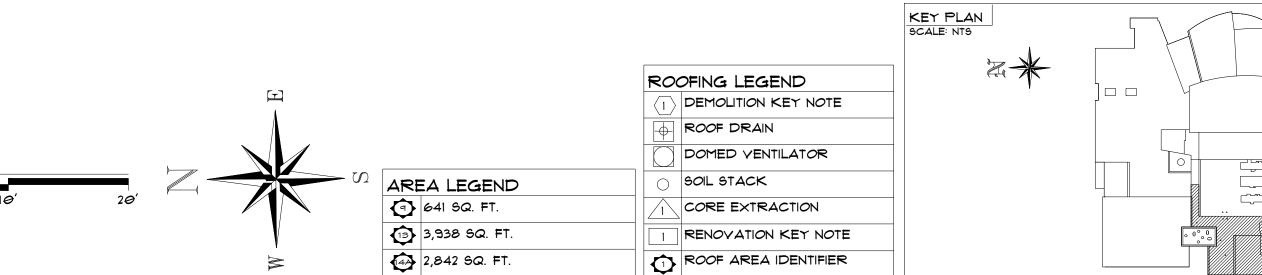
EXISTING ROOF CONSTRUCTION:

- PLYWOOD SHEATHING, VAPOR BARRIER, 2 LAYERS 1.5" FLATSTOCK POLYISO, 2 PLY MODIFIED BITUMEN ROOFING.
- PLYWOOD SHEATHING, VAPOR BARRIER, 2 LAYERS 1.5" FLATSTOCK POLYISO, 2 PLY MODIFIED BITUMEN ROOFING.
- PLYWOOD SHEATHING, ASPHALT VAPOR BARRIER, 1" EPS, 1/2" FIBERBOARD, 2 PLY MODIFIED BITUMEN ROOFING.
- PLYWOOD SHEATHING, ASPHALT VAPOR BARRIER, 1" EPS, 1/2" FIBERBOARD, 2 PLY MODIFIED BITUMEN ROOFING.
- PLYWOOD SHEATHING, ASPHALT VAPOR BARRIER, 1" EPS, 1/2" FIBERBOARD, 2 PLY MODIFIED BITUMEN ROOFING.
- PLYWOOD SHEATHING, VAPOR BARRIER, 1" EPS, 1/2" FIBERBOARD, 2 PLY MODIFIED BITUMEN ROOFING.
- PLYWOOD SHEATHING, VAPOR BARRIER, 1" EPS, 1/2" FIBERBOARD, 2 PLY MODIFIED BITUMEN ROOFING.
- PLYWOOD SHEATHING, VAPOR BARRIER, RIGID INSULATION, 2 PLY MODIFIED BITUMEN ROOFING.
- /9). PLYWOOD SHEATHING, VAPOR BARRIER, RIGID INSULATION, 2 PLY MODIFIED BITUMEN ROOFING.

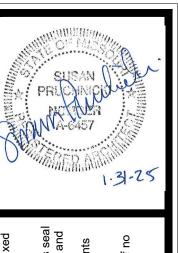
DEMOLITION NOTES:

- (I.) CONTRACTOR RESPONSIBLE TO RECORD CONDITIONS OF EACH DAY'S WORK AREA PRIOR TO BEGINNING DEMOLITION.
- (2.) CONTRACTOR TO ONLY TEAR-OFF SECTIONS OF MATERIAL WHICH CAN BE SEALED WATERTIGHT DAILY REGARDLESS OF DRY, OVERNIGHT WEATHER FORECASTS.
- 3. REMOVE ALL ASSOCIATED SHEET METAL COMPONENTS..
- 4. ALL EXISTING ROOF DRAINS TO REMAIN. REMOVE STRAINER AND CLAMPING RING FOR REINSTALLATION, REPLACE ANY MISSING, DETERIORATED, DEFECTIVE, OR BROKEN DRAIN COMPONENTS.
- 5. REMOVE COUNTER FLASHING FOR REUSE.
- (6.) REMOVE EXISTING CURB FLASHING. REMOVE ALL PROJECTIONS AND SLEEPERS.
- 7. REMOVE EXISTING ROOFING MATERIAL DOWN TO THE STRUCTURAL DECK SURFACE.
- 8. REMOVE 3 LAYERS OF FIBER BOARD.





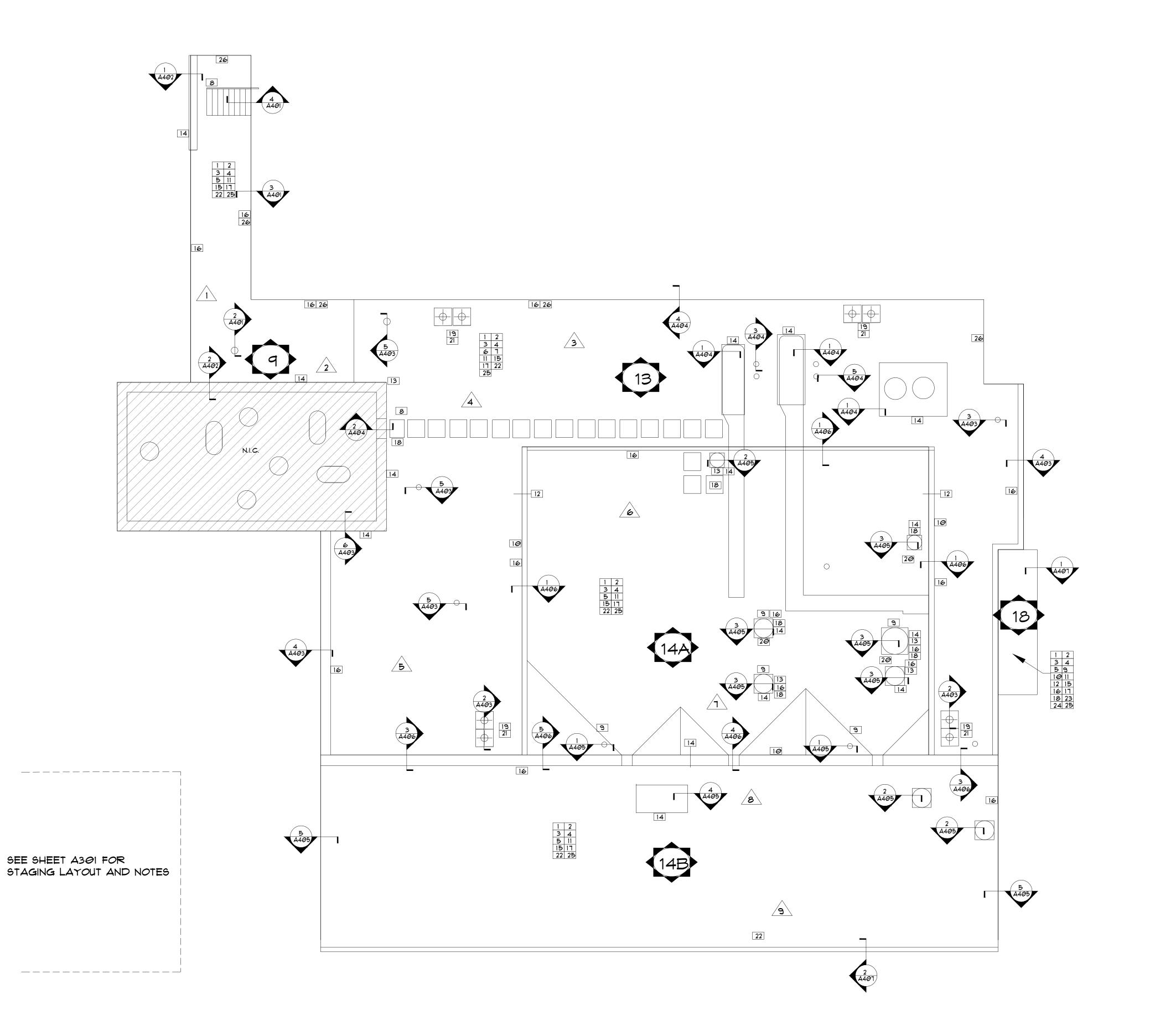
2,840 SQ. FT.



- ROOF REPLACEMENTS
- IC TRAINING CENTER
OUNTY, MISSOURI, 65211
ATION PLAN VARIOUS LOCATIONS - ROOF I MISSOURI ATHLETIC TRAIN COLUMBIA, BOONE COUNTY, I RENOVATION PL

PROJECT NUMBER CP243181

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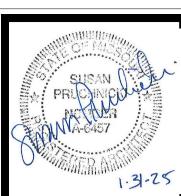
RENOVATION NOTES:

- CONTRACTOR RESPONSIBLE TO FIELD VERIFY ALL MEASUREMENTS PRIOR TO MATERIAL INSTALLATION.
- INSTALL 5/8" GYPSUM BASE BOARD MECHANICALLY FASTENED INTO DECKING PER FM 1-90.
- 4. INSTALL ONE (1) LAYER OF SELF ADHERED VAPOR BARRIER TO A PRIMED GYPSUM SUBSTRATE.
- 5. INSTALL TWO (2) LAYERS 2.0" POLYISO INSULATION ADHERED WITH TWO PART LOW RISE FOAM PER FM 1-90 REQUIREMENT'S.
 - 6. INSTALL ONE BASE LAYER OF 1.5" POLYISO INSULATION OVER 5/8" GYPSUM LOW RISE FOAM FOLLOWED BY AN 1/8"-12" TAPERED.
- 1. INSTALL $\frac{1}{8}$ " 12" TAPERED POLYISO INSULATION WITH TWO PART FOAM PER FM 1-90.
- 8. INSTALL $4' \times 8' \times 1/2''$ MARINE GRADE PLYWOOD LANDINGS INPLACE OF COVER BOARD AT ACCESS POINTS.
- 9. 1/2" 12" TAPERED POLYISO CRICKETS AT PROJECTION UP SLOPE AND AT POTENTIAL PONDING AREAS.
- 10. INSTALL 1/2" EXTERIOR GRADE PLYWOOD MECHANICALLY ATTACHED TO WALL SURFACES TO RECEIVE EPDM FULLY ADHERED FLASHING.
- INSTALL ONE (1) LAYER 1/2" HD COVERBOARD INSULATION ADHERED WITH TWO PART LOW RISE FOAM PER FM 1-90
- 12. CONTRACTOR TO RAISE ALL CURBS WHERE POSSIBLE TO A MIN OF 8" OVER FINISHED MEMBRANE SURFACE.
- 13. INSTALL NEW 24 GA COUNTERFLASHINGS. FASTEN 12" O.C.
- 14. INSTALL NEW 24 GA KYNAR COATED COUNTER FLASHING INTO CLEAN, EXISTING REGLET RECEIVER WITH DOW 190 SEALANT
- 15. INSTALL ONE (1) LAYER OF 60 MIL EPDM MEMBRANE WITH 3" OVERLAPPING SEAMS WITH EPDM SEAM TAPE, FULLY ADHERE MEMBRANE WITH LOW-VOC MEMBRANE ADHESIVE.
- 16. INSTALL FULLY-ADHERED EPDM FLASHING OVER 2" WIDE BUTYL TAPE, TERMINATE WITH A 1" ALUMINUM TERMINATION BAR
- FASTENED INTO EACH GIVEN ALLOWANCE.
- 17. INSTALL PIPE SUPPORTS BELOW SMALL A/C UNITS, GAS LINES, AND CONDUIT LINES.
- 18. INSTALL WALK PADS AT SERVICEABLE EQUIPMENT, LADDER, AND DOORS ACCESS POINTS.
- ALL EXISTING ROOF DRAINS TO REMAIN, CONTRACTOR TO INSTALL 48" TAPERED SUMPS AT DRAIN BEFORE INSTALLING EPDM MEMBRANE FLASHINGS. INSTALL NEW HARDWARE AND STRAINERS.
- 20. INSTALL GREASE TRAP TO SURROUND ACTIVE FRYER EXHAUST FANS.
- 21. SNAKE ALL DRAINS FOLLOWING PROJECT COMPLETION.
- 22. CONTRACTOR RESPONSIBLE FOR RE-INSTALLATION AND RE-CERTIFICATION OF LIGHTNING PROTECTION SYSTEM.
- 23. INSTALL 24 GA. KYNAR COATED GUTTER W/ 24 GA. KYNAR COATED DRIP EDGE.
- 24. INSTALL METAL-ERA FASCIA SYSTEM.
- 25. CONTACT THRD PARTY FOR RE-INSTALLATION AND CERTIFICATION OF LIGHTNING ARREST SYSTEM.
- 26. REINSTALL METAL COUNTERFLASHING.

- 1. MECHANICALLY FASTEN 5/8" TYPE X GYPSUM /SECUREROCK OR EQUAL WITH FM 1-90 FASTENING
- PATTERN (MINIMUM 16 FASTENERS PER 4×8). 2. INSTALL MANUFACTURER APPROVED (SA) SELF-ADHERED VAPOR BARRIER TO THE PRIMED GYPSUM
- 3. INSTALL TWO LAYERS OF 2.0" POLYISOCYANURATE INSULATION ADHERED WITH 2-PART LOW RISE FOAM.
- 4. INSTALL ONE (1) LAYER OF 1/2" HD POLY ISO.
- 5. INSTALL 60 MIL EPDM MEMBRANE.
- 1. MECHANICALLY FASTEN 5/8" TYPE \times GYPSUM /SECUREROCK OR EQUAL WITH FM 1-90 FASTENING
- PATTERN (MINIMUM 16 FASTENERS PER 4×8).
- 2. INSTALL MANUFACTURER APPROVED (SA) SELF-ADHERED VAPOR BARRIER. 3. INSTALL ONE (1) LAYER OF 1.5" POLYISOCYANURATE INSULATION BASE LAYER LOW RISE FOAMED TO
- VAPOR BARRIER.
- 4. INSTALL 1/8"-12" TAPERED POLYISOCYANURATE INSULATION.
- 5. INSTALL ONE (1) LAYER OF 1/2" HD COVERBOARD.
- 6. INSTALL 60 MIL EPDM MEMBRANE.
- 1. MECHANICALLY FASTEN 5/8" TYPE X GYPSUM /SECUREROCK OR EQUAL WITH FM 1-90 FASTENING PATTERN (MINIMUM 16 FASTENERS PER 4×8).
- 2. INSTALL MANUFACTURER APPROVED SELF-ADHERED (SA) VAPOR BARRIER TO THE PRIMED GYPSUM
- 3. INSTALL TWO (2) LAYERS OF 2.0" POLYISOCYANURATE INSULATION ADHERED WITH 2-PART LOW RISE
- 4. INSTALL ONE (1) LAYER OF 1/2" HD COVERBOARD.

5. INSTALL 60 MIL EPDM MEMBRANE. ROOF #18

- 1. MECHANICALLY FASTEN 5/8" TYPE X GYPSUM /SECUREROCK OR EQUAL WITH FM 1-90 FASTENING PATTERN(MINIMUM 16 FASTENERS PER 4×8).
- 2. INSTALL MANUFACTURER APPROVED SELF-ADHERED (SA) VAPOR BARRIER TO THE PRIMED GYPSUM
- SUBSTRATE. 3. INSTALL TWO (2) LAYERS OF 2.0" POLYISOCYANURATE INSULATION ADHERED WITH 2-PART LOW RISE
- 4. INSTALL ONE (1) LAYER OF 1/2" HD COVERBOARD.
- 5. INSTALL 60 MIL EPDM MEMBRANE.

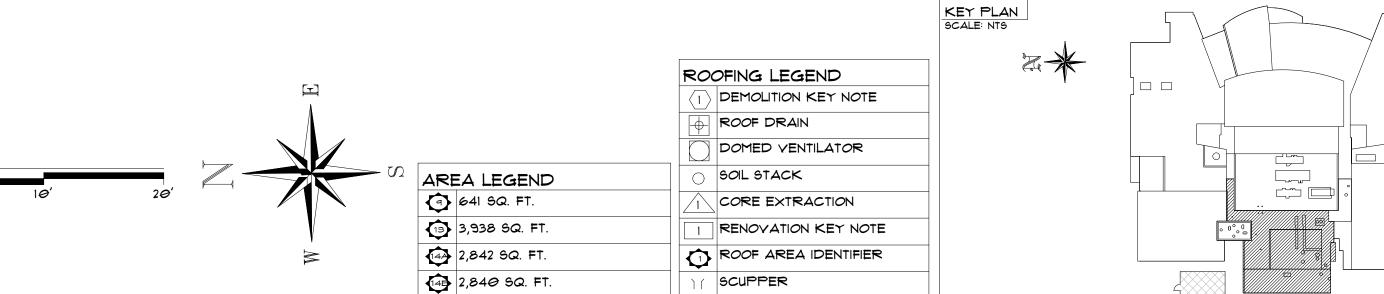


REPLACEMENTS INING CENTER , MISSOURI, 65211 $\overline{}$

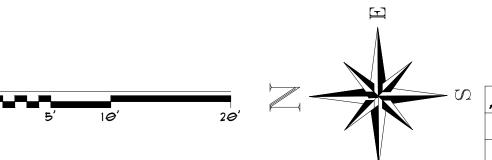
VARIOUS LOCATIONS -MISSOURI ATHLETI COLUMBIA, BOONE CC BOONE (

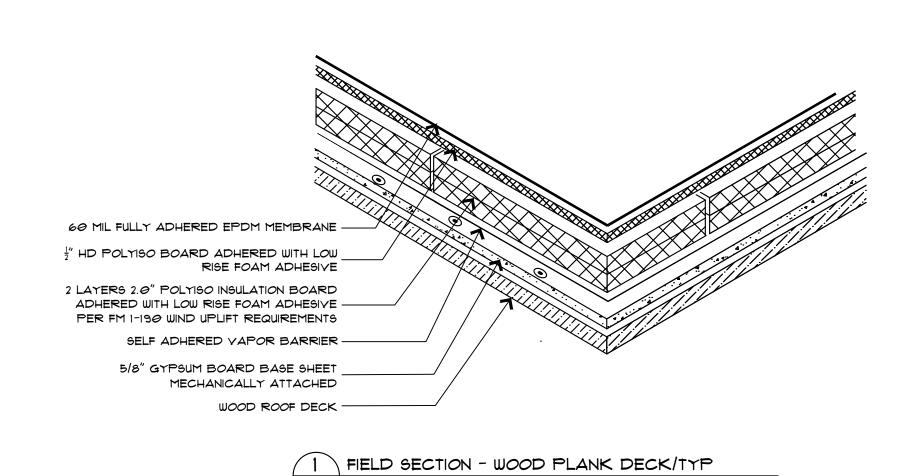
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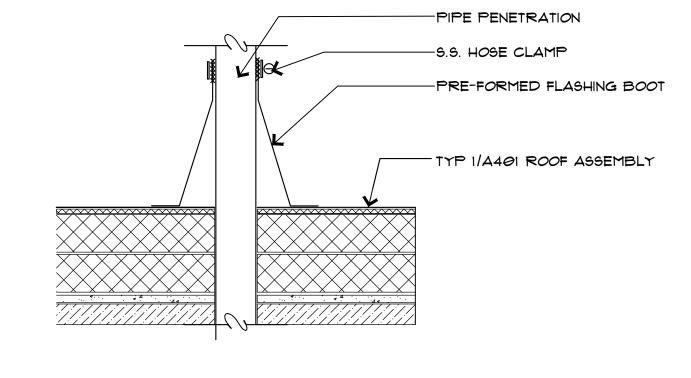






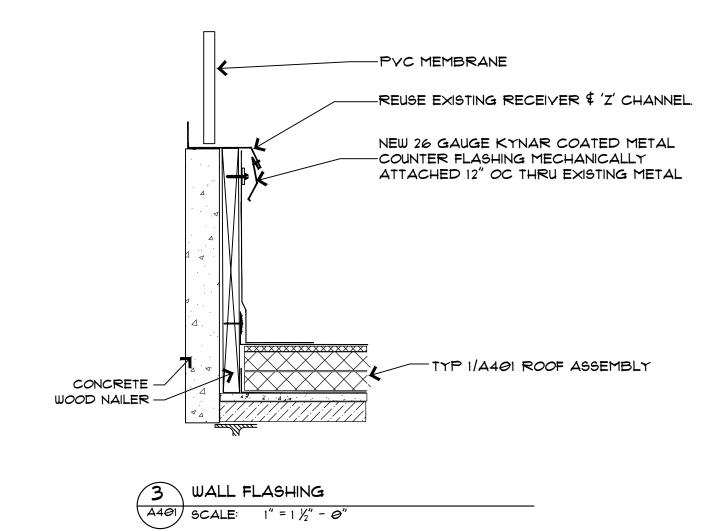


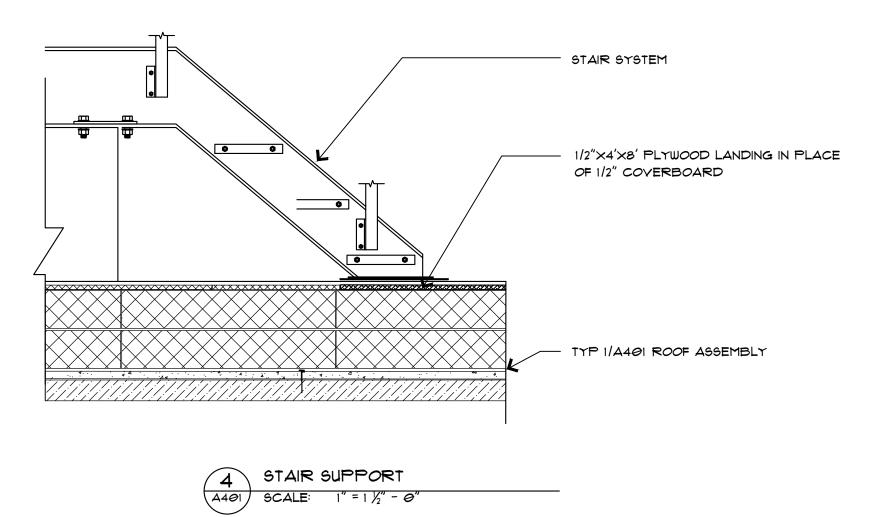
A401 SCALE: 1" = 1 1/2" - 0"



PIPE PENETRATION

A401 SCALE: 1" = 1 1/2" - 0"





VARIOUS LOCATIONS - ROOF REPLACEMENTS

MISSOURI ATHLETIC TRAINING CENTER

COLUMBIA, BOONE COUNTY, MISSOURI, 65211

RENOVATION PLAN

PROJECT NUMBER

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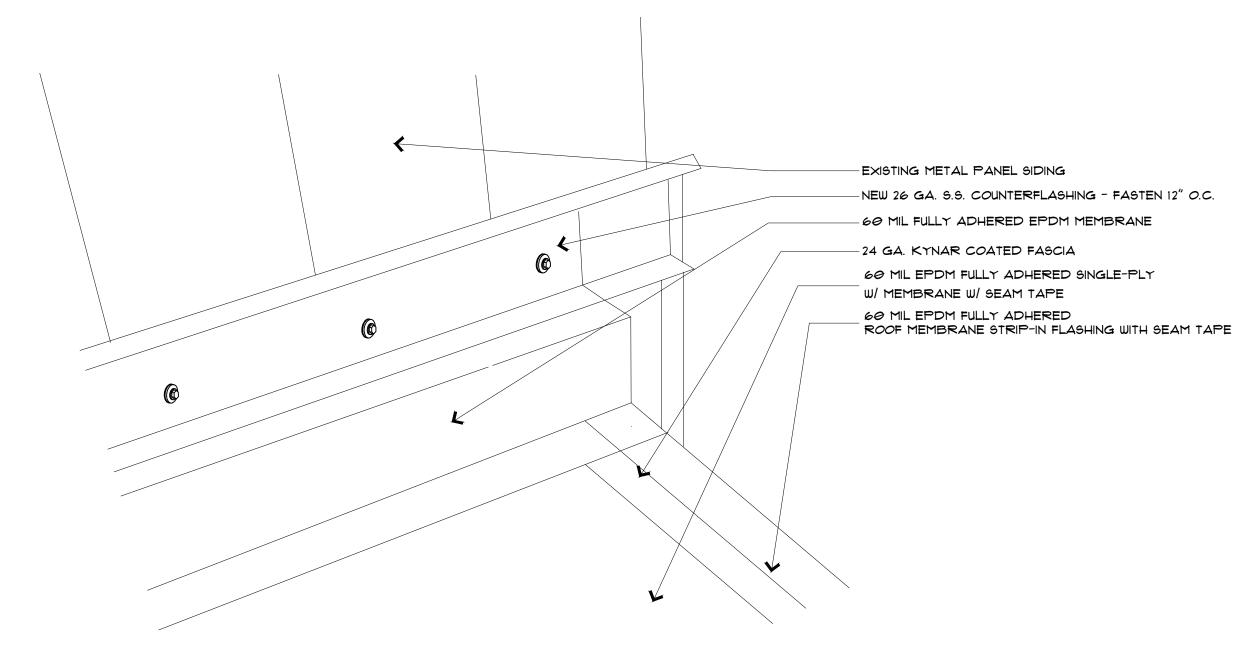
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SECTION #1 N.I.C. - APP MODIFIED MEMBRANE TO REMAIN. REPLACE VERTICAL FLASHING ON SECTION #1 ONLY NEW EPDM MEMBRANE FLASHING -NEW KNEE WALL AREA DIVIDER 24 GA. KYNAR COATED EXPANSION JOINT COVER, BOTH SIDES FASTENED 12" O.C. WITH RUBBER GROMMETED FASTENERS -60 MIL FULLY ADHERED EPDM MEMBRANE ON SECTION #19 EPDM FIELD MEMBRANE CARRIED UP THE VERTICAL ON SECTION #19 WOOD BLOCKING TO ALLOW COPING TO RISE 8" ABOVE FINISHED DECK SURFACE 24 GA. KYNAR COATED EXPANSION JOINT COVER, BOTH SIDES FASTENED 12" O.C. WITH RUBBER GROMMETED FASTENERS INSTALL NEW 2 PLY-APP MODIFIED - CONTINUOUS EPDM OR VINYL MEMBRANE BITUMEN FLASHING - 60 MIL FULLY ADHERED EPDM MEMBRANE SECTION #1 N.I.C. ROXUL FILL 60 MIL EPDM FULLY ADHERED SINGLE-PLY W/ MEMBRANE W/ SEAM TAPE TYP 1/A401 ROOF ASSEMBLY

SECTION #9 INCLUDED

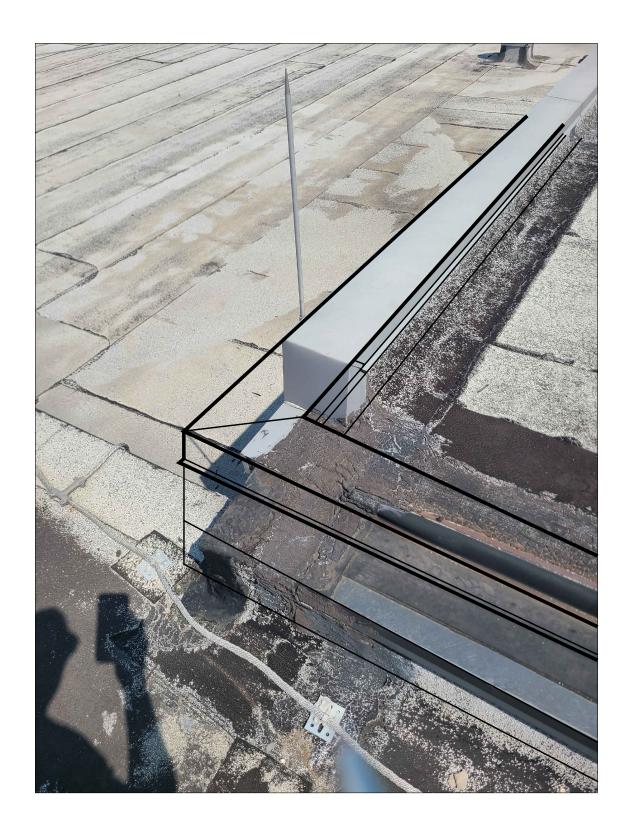
1 AREA DIVIDER

A402 SCALE: 1" = 1 ½" - 0"



PERIMETER/WALL INTERSECTION FLASHING

9CALE: N.T.S.



NEW AREA DIVIDER

A402 SCALE: N.T.S.



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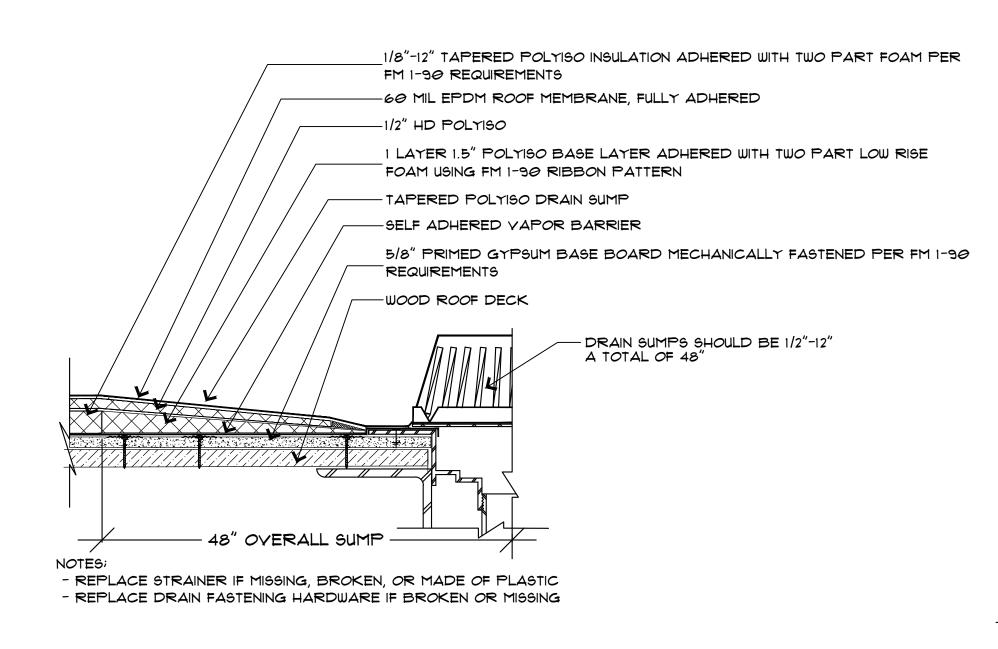
VARIOUS LOCATIONS - ROOF REPLACEMENTS
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RENOVATION PLAN

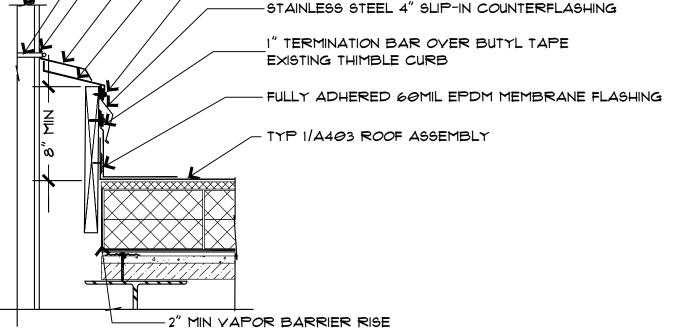
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EXISTING EXHAUST PROJECTION

- HIGH TEMP ELASTOMETRIC SEALANT

- GROMMETED FASTENERS AT 6" O.C.

- STAINLESS STEEL HOSE CLAMP

- STAINLESS STEEL UMBRELLA

- STAINLESS STEEL CURB CAP

2 DRAIN FLASHING A403 SCALE: 1" = 1 1/2" - 0' 3 EXHAUST FLASHING A403 SCALE: 1" = 1 1/2" - 0"

METAL ERA COPING DETAIL

MEMBRANE

COPING EXTENSION METAL

REPLACE NAILERS IF DETERIORATED OR DAMAGED

FULLY ADHERED EPDM MEMBRANE WITH LOW VOC

EPDM SECUREMENT STRIP FASTENED WITH 2" FASTENING PLATES

1/2" EXTERIOR GRADE PLYWOOD, FASTENED EVERY 2 9Q. FT

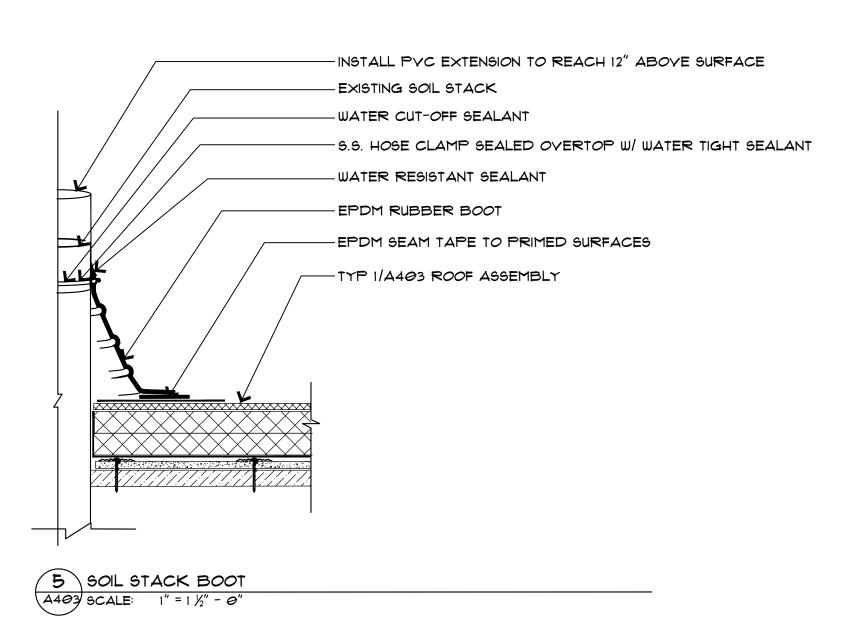
TYP 1/A403 ROOF ASSEMBLY

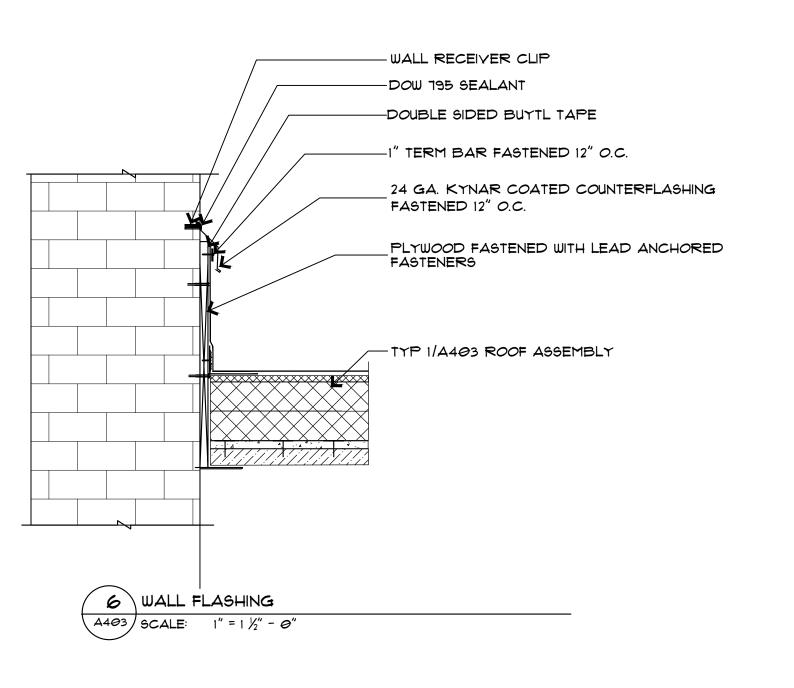
2" MIN VAPOR BARRIER RISE



1 FIELD ASSEMBLY - SECTION 13/TYP

A403 SCALE: 1" = 1 1/2" - 0"





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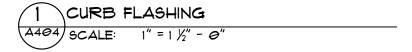
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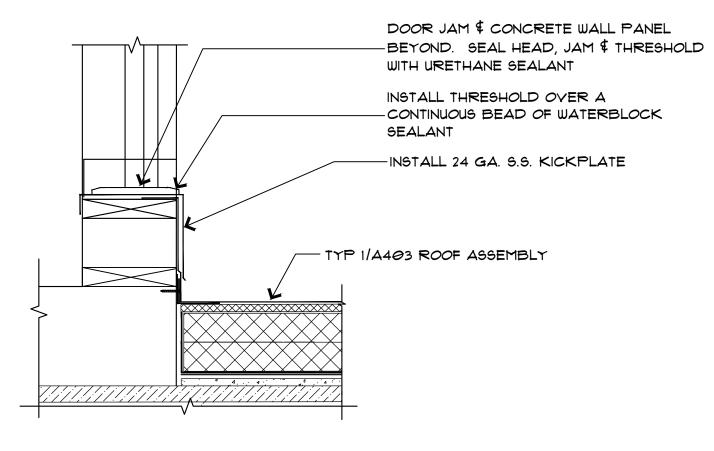
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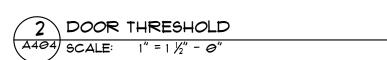
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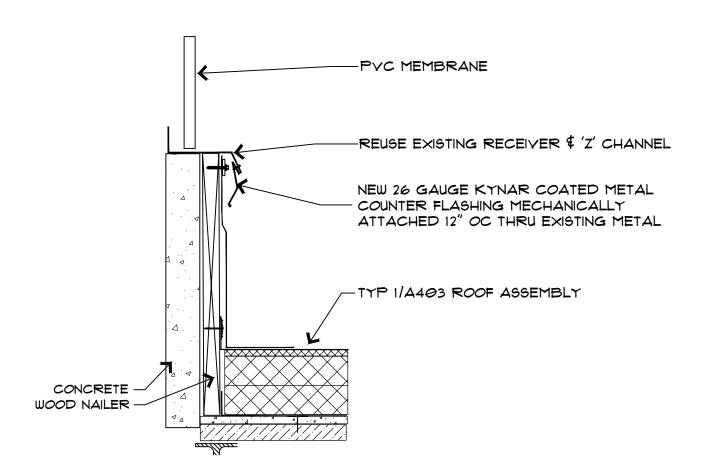
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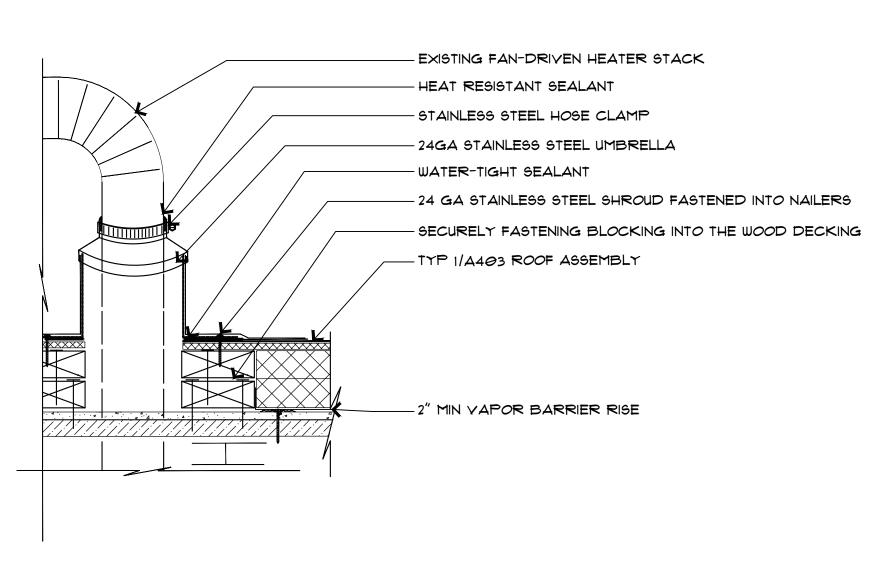




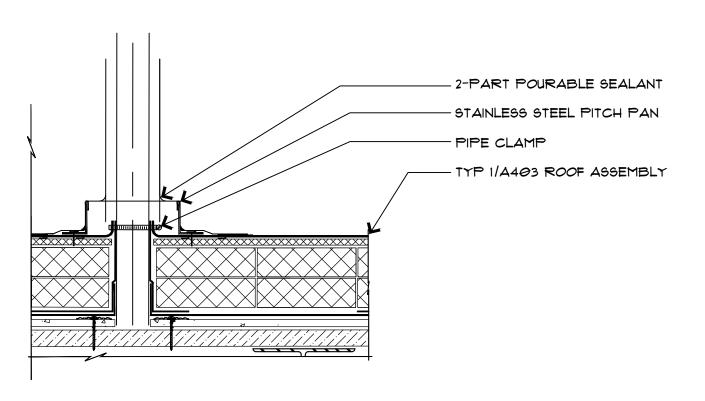


WALL FLASHING

| A404 | SCALE: 1" = 1 1/2" - 0"



5 GOOSE NECK HOT STACK A404 SCALE: 1" = 1 1/2" - 0"



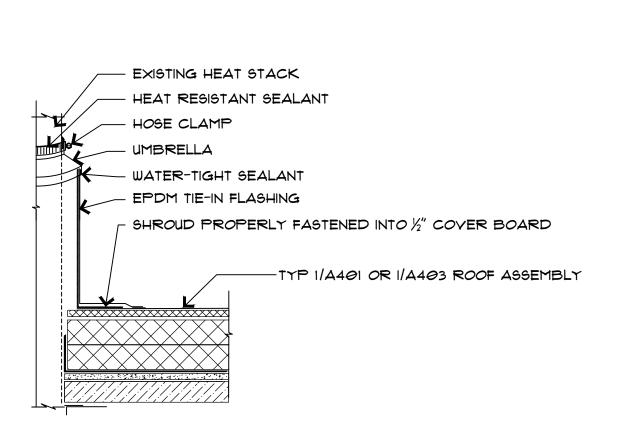
3	PITCH	PAN	
(A404)	SCALE:	1" = 1 ½" - 0"	

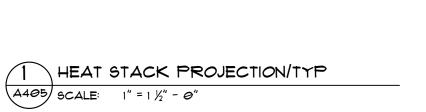
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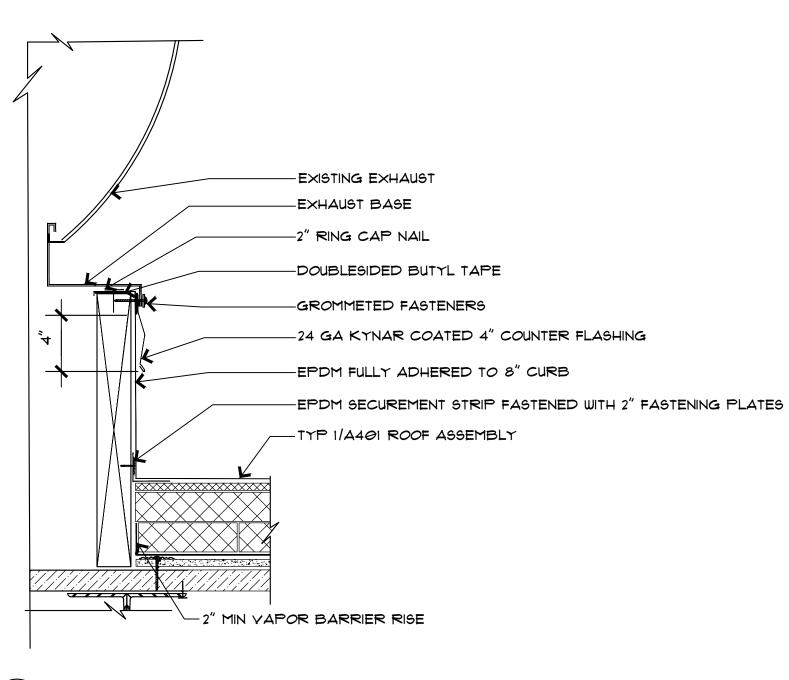
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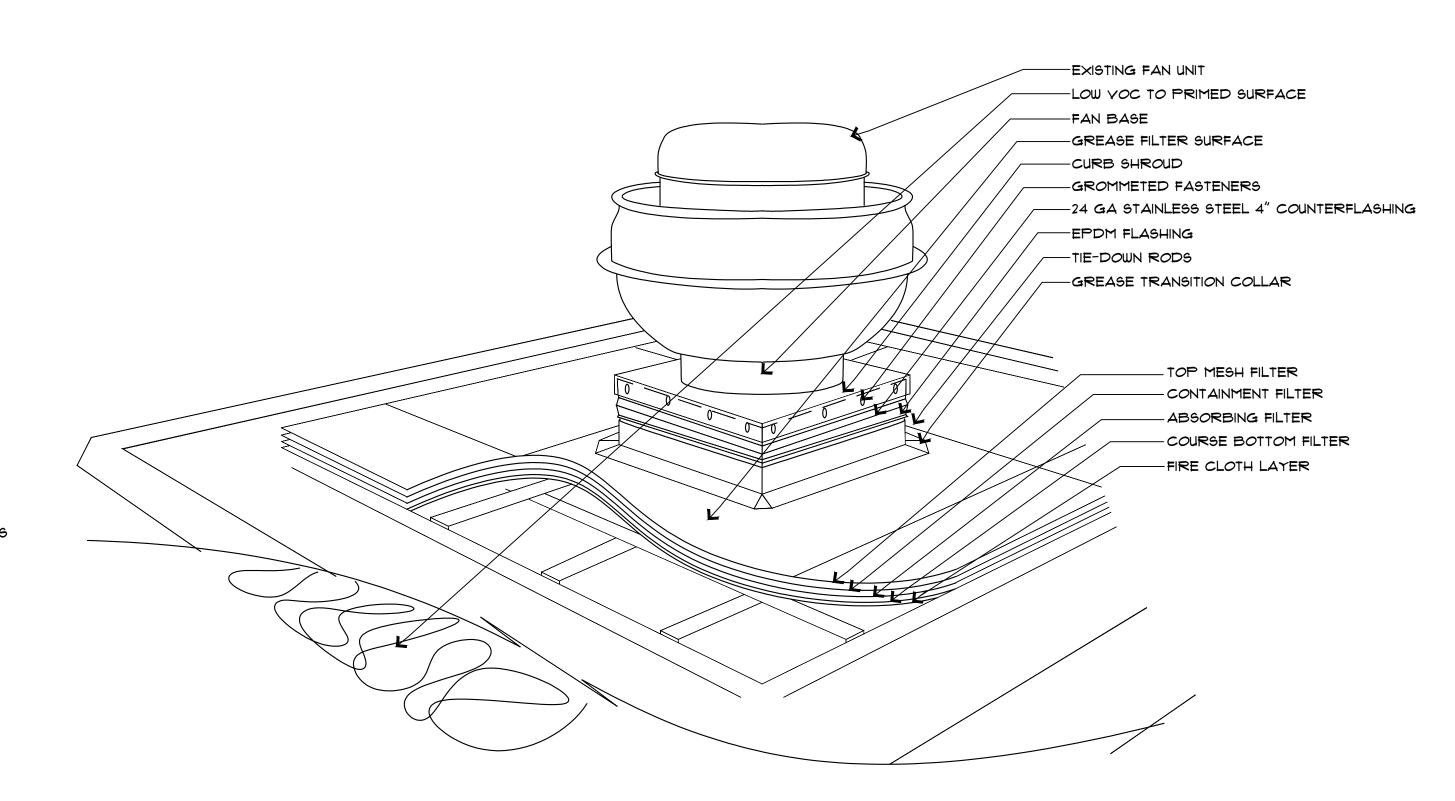
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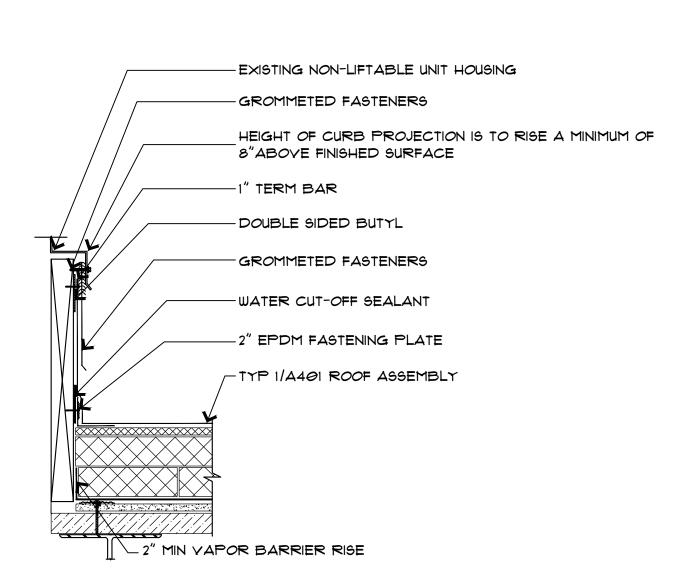




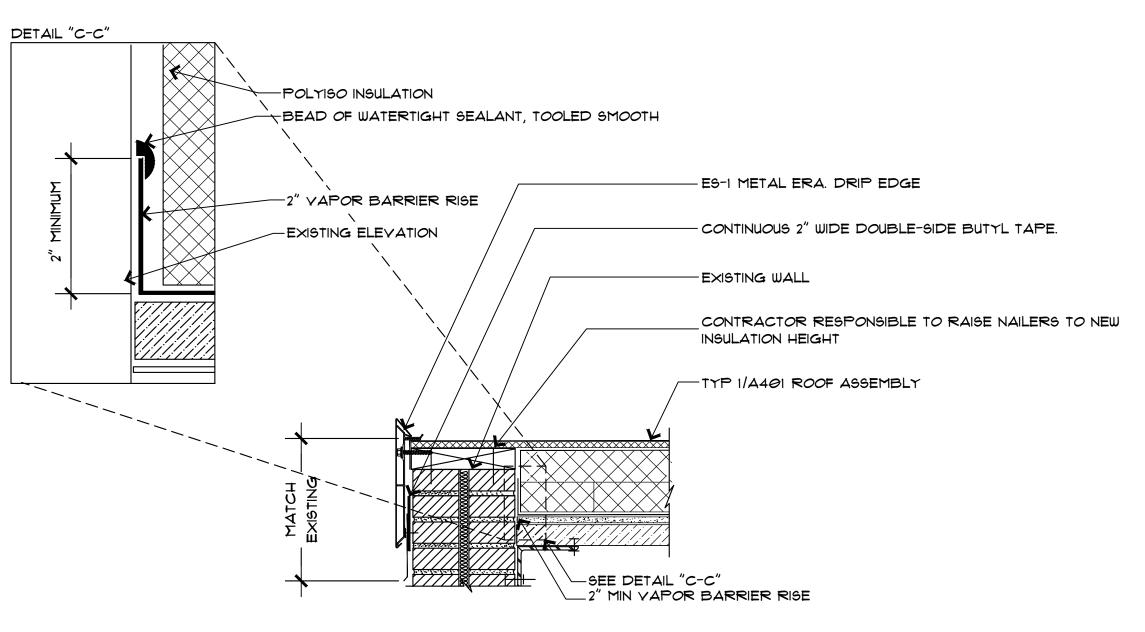


3 GREASE GUARD

A405 SCALE: 1" = 1 1/2" - 0"







5 ROOF EDGE A405 SCALE: 1" = 1 1/2" - 0"



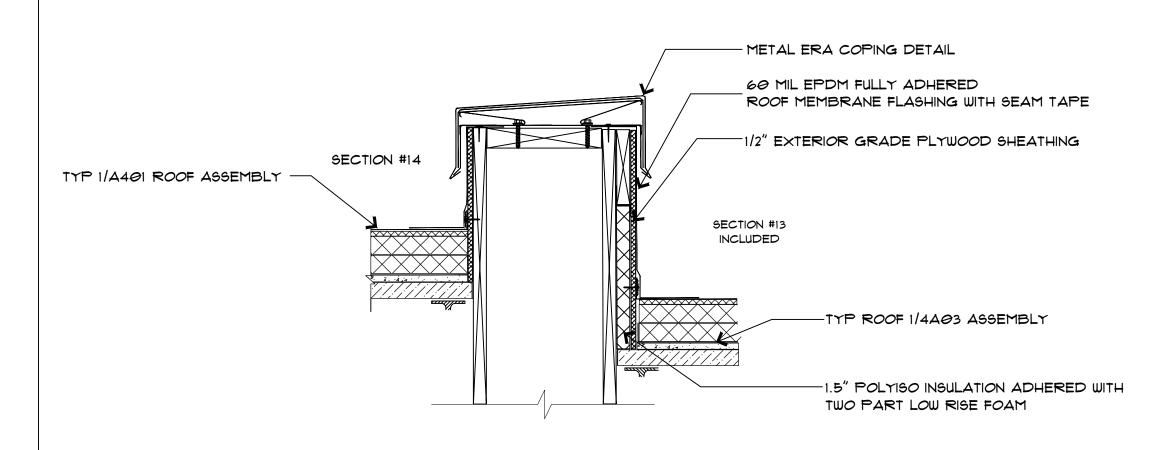
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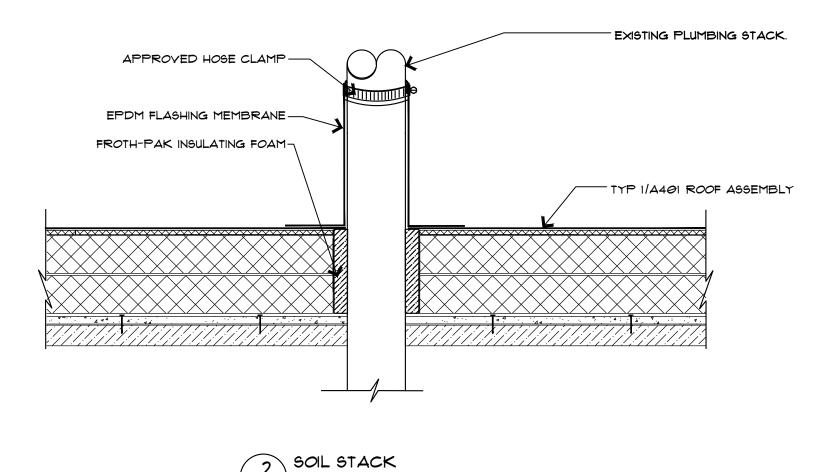
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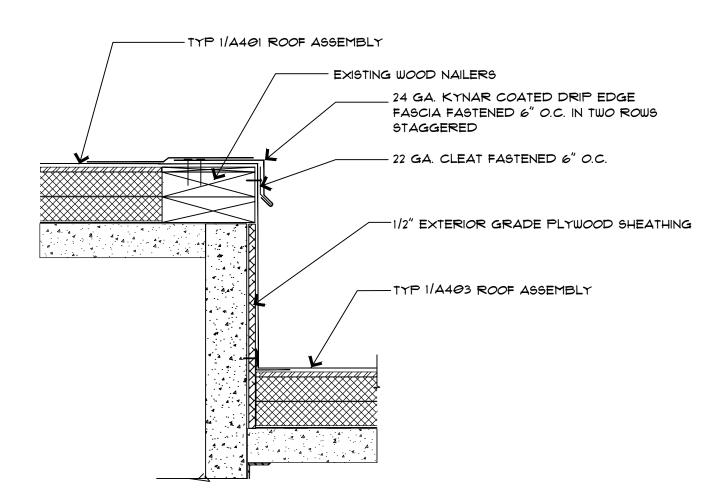


SECTION CHANGE

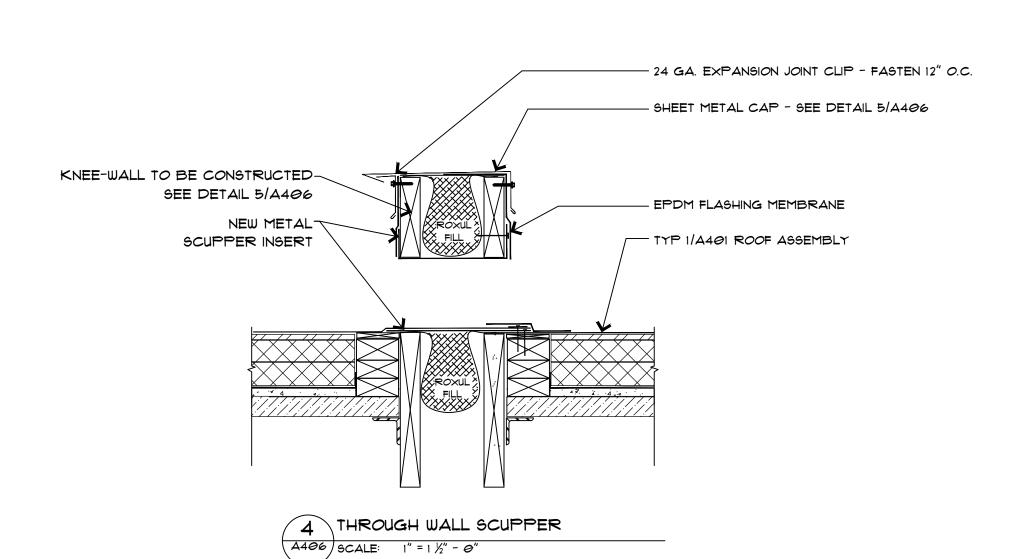
A406 SCALE: 1" = 1 1/2" - 0"

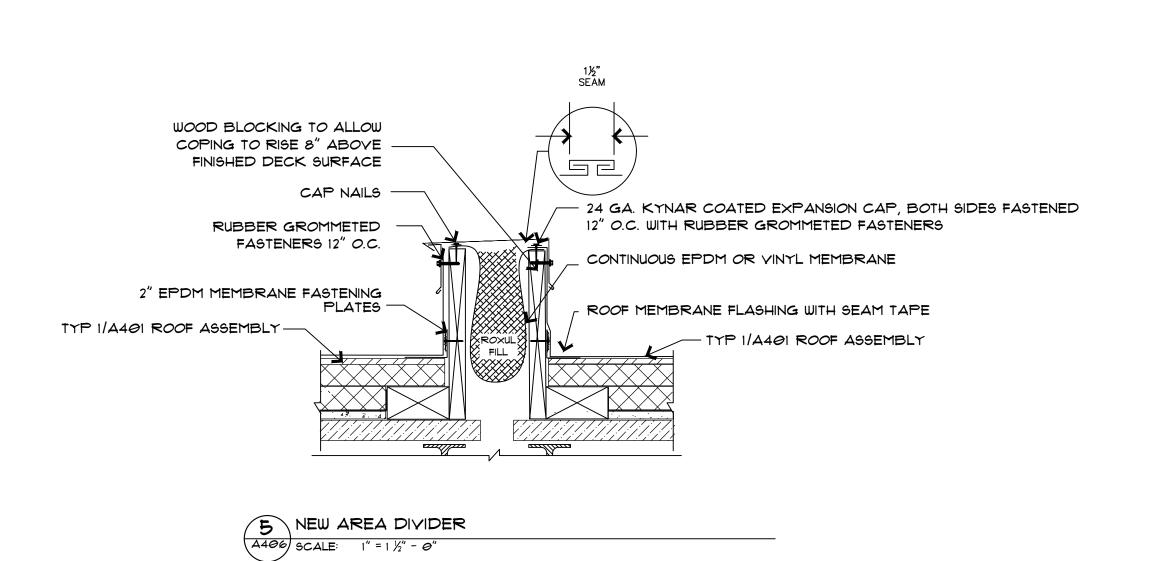


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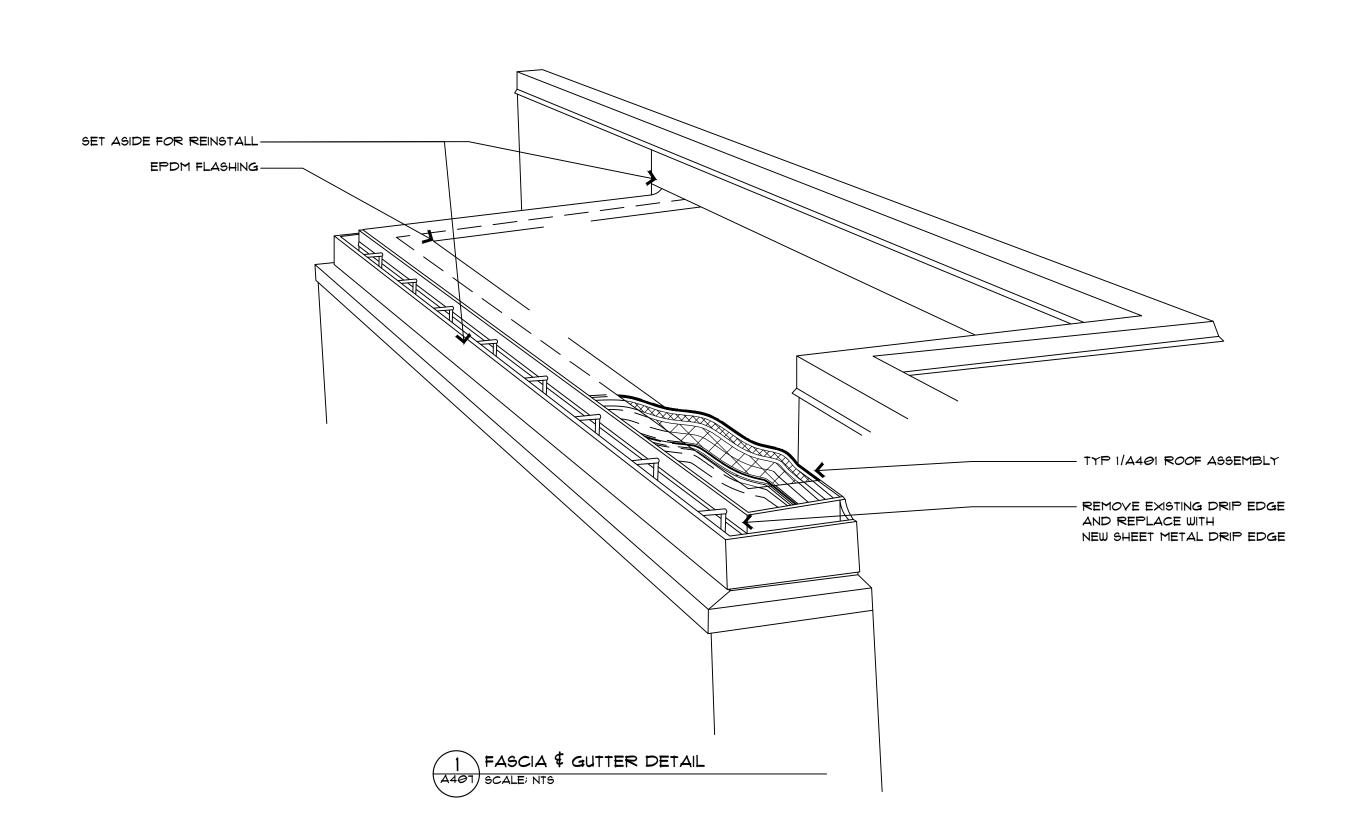


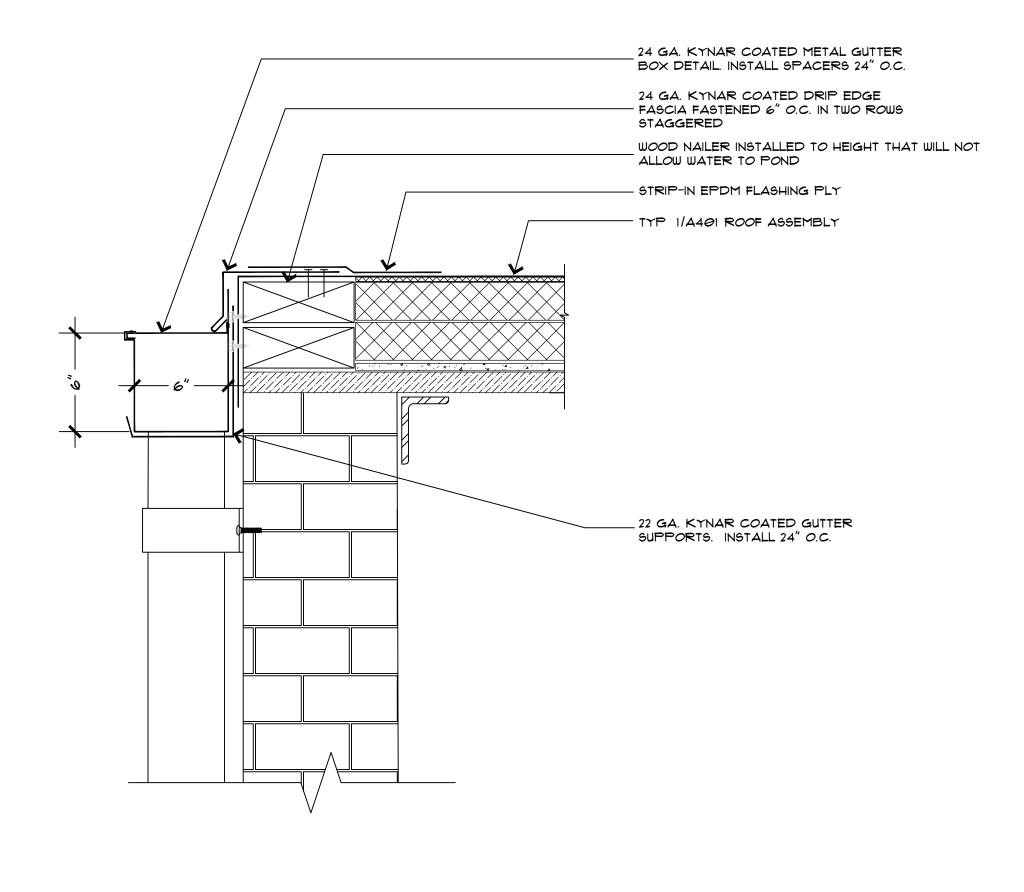
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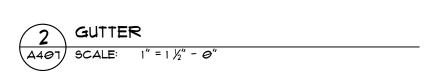
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