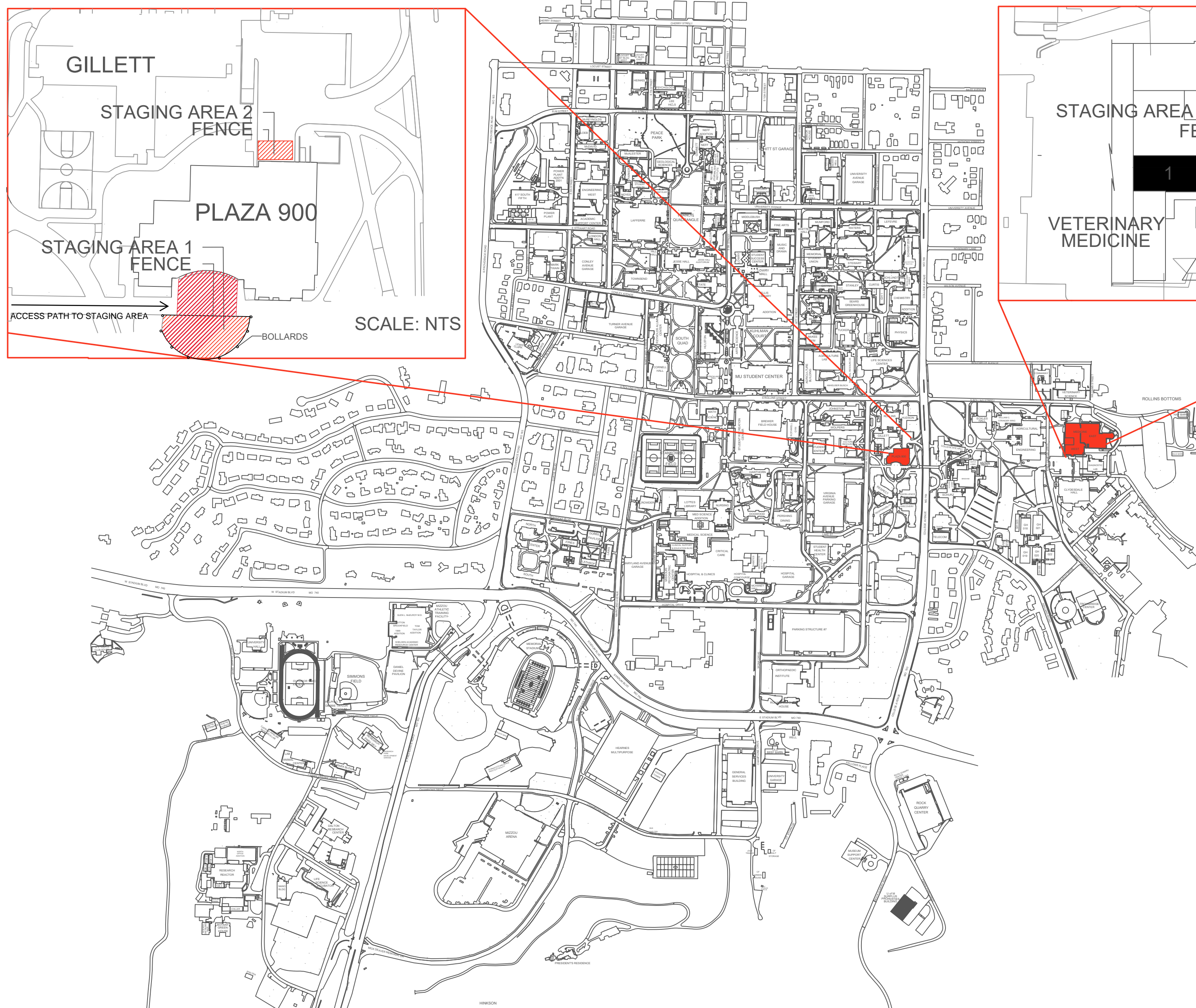


VARIOUS LOCATIONS - ROOF REPLACEMENTS

VETERINARY MEDICINE EAST AND PLAZA 900 DINING FACILITY
 COLUMBIA, BOONE COUNTY, MISSOURI 65211

PROJECT NO: CP241331 DATE: FEBRUARY 22, 2024

FOR: THE CURATORS OF THE UNIVERSITY OF MISSOURI



CODES AND STANDARDS:

- UM CONSULTANT PROCEDURES AND DESIGN GUIDELINES: CURRENT EDITION
- IBC: 2021
 - IBD: 2021
 - IMC: 2021
 - IEBC: 2021
 - IPC: 2021
 - IFC: 2021
 - IFGC: 2021
 - ISPS: 2021
 - NEC: 2020
 - NFPA 13: 2019
 - NFPA 14: 2019
 - NFPA 20: 2019
 - NFPA 45: 2019
 - NFPA 51B: 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
 - ASHRAE 62.1: 2019
 - ASHRAE 170: 2019
 - SFPI: 2020
 - ADA: 2010
 - FGI: 2022

INDEX OF DRAWINGS

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A101	VETERINARY MEDICINE EAST	Sect. 1 & 2 - Demolition and Renovation	ROOF PLAN	Δ															
A102	VETERINARY MEDICINE EAST	Sect. 1 & 2 - Details 1-11	ROOF DETAILS	Δ															
A103	VETERINARY MEDICINE EAST	Sect. 1 & 2 - Details 12-17	ROOF DETAILS	Δ															
A201	VETERINARY MEDICINE EAST	Sect. 3 - Demolition and Renovation	ROOF PLAN	Δ															
A202	VETERINARY MEDICINE EAST	Sect. 3 - Details 1-6	ROOF DETAILS	Δ															
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A301	VETERINARY MEDICINE EAST	Sect. 4 - Demolition and Renovation	ROOF PLAN	Δ															
A302	VETERINARY MEDICINE EAST	Sect. 4 - Details 1-5	ROOF DETAILS	Δ															
A303	VETERINARY MEDICINE EAST	Sect. 4 - Details 6-9	ROOF DETAILS	Δ															
A401	PLAZA 900 DINING FACILITY	Single Demolition and Renovation	ROOF PLAN	Δ															
A402	PLAZA 900 DINING FACILITY	Shingle Details 1-6	ROOF DETAILS	Δ															
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A404	PLAZA 900 DINING FACILITY	Single Details 11-13	ROOF DETAILS	Δ															
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A406	PLAZA 900 DINING FACILITY	Shingle Detail 18	ROOF DETAILS	Δ															
A501	PLAZA 900 DINING FACILITY	EPDM Demolition and Renovation	ROOF PLAN	Δ															
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A504	PLAZA 900 DINING FACILITY	EPDM Sections Details 13-17	ROOF DETAILS	Δ															
A505	PLAZA 900 DINING FACILITY	EPDM Section Detail 18 - Doorway Step	ROOF DETAILS	Δ															

I HEREBY CERTIFY THAT DRAWINGS AND/OR SPECIFICATIONS HAVE BEEN PREPARED BY ME, OR UNDER MY 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: *Shawn Prucknick*

PROJECT NOTES:

- 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.
- 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.
- 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.
- CONTRACTOR SHALL MAINTAIN AND KEEP ALL EXISTING MEANS OF EGRESS BARRIER-FREE.
- 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 TO THE OWNER.
- 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.
- CONTRACTOR SHALL CONTAIN ALL CONSTRUCTION ACTIVITY, INCLUDING STORAGE OF MATERIAL AND EQUIPMENT, WITHIN THE CONSTRUCTION LIMITS.
- 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.
- 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.)

- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS AND SEQUENCES OF CONSTRUCTION AND THE SAFETY OF CONSTRUCTION PERSONNEL AND AUTHORIZED VISITORS.
- 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.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING ROOF MEMBRANE DURING DEMOLITION.
- UNIVERSITY STAFF AND STUDENT'S HOLD THE RIGHT-OF-WAY AT ALL TIMES DURING ROOF CONSTRUCTION, ESPECIALLY DURING CAMPUS SURGICAL EVENTS.JJG.

LANDSCAPE NOTES:

- 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.
- WHERE ACCESS TO BUILDING REQUIRES CROSSING TURF, MULCH AREAS, TREE ROOT SYSTEMS, TREE CANOPY ZONES, OR IRRIGATION SYSTEMS, THE CONTRACTOR SHALL USE ALTERNAMATS BY DICA OR APPROVED EQUAL.
- 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.
- 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.





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02/22/24 ISSUED FOR CONSTRUCTION
DRAWN BY: J.J.G. CHECKED BY: J.J.G.

RMT RMT ROOFING AND WATERPROOFING CONSULTANTS, INC.
410 SOVEREIGN COURT #19
MANCHESTER, MO 63061
(636) 251-2185

VARIOUS LOCATIONS - ROOF REPLACEMENTS
VETERINARY MEDICINE EAST
COLUMBIA, BOONE COUNTY, MISSOURI
ROOF PLAN

PROJECT NUMBER
CP241331
SHEET
A101

EXISTING ROOF CONSTRUCTION:

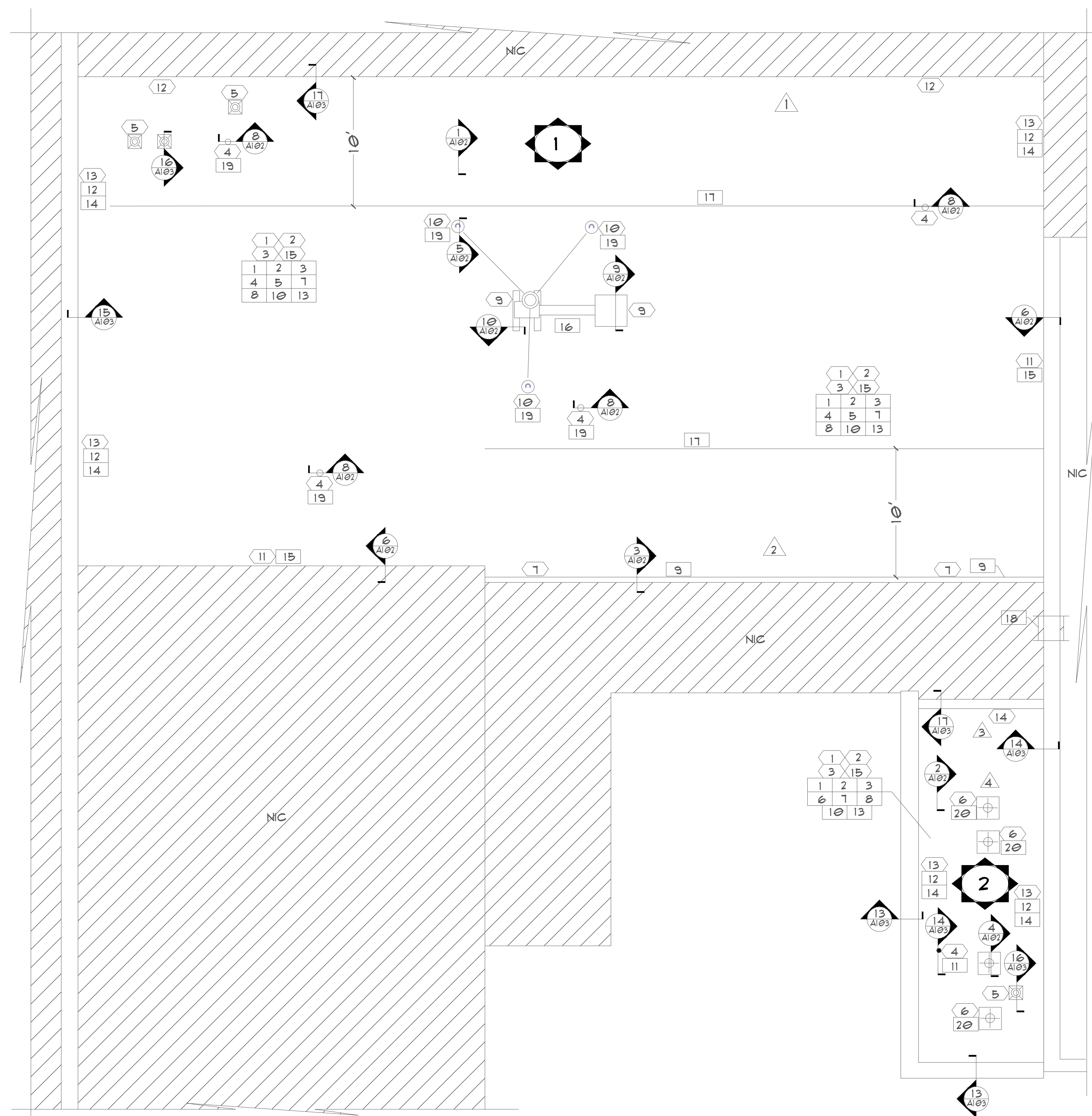
- ▲ METAL DECK, 1" PERLITE, 26" ISO, 1/2" HD 3-PLY GRAVEL (5" TOTAL)
- ▲ METAL DECK, 1" PERLITE, 26" ISO, 1/2" HD 3-PLY GRAVEL (5" TOTAL)
- ▲ METAL DECK, 1" PERLITE, ISO, 1/2" HD 3-PLY GRAVEL (5" TOTAL)
- ▲ METAL DECK, 1" PERLITE, ISO, 1/2" HD 3-PLY GRAVEL (4" TOTAL)

DEMOLITION NOTES:

1. CONTRACTOR RESPONSIBLE TO RECORD CONDITIONS BELOW 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 GRAVEL FROM ROOF SURFACE
4. REMOVE LEAD FLASHING FROM SOIL PROJECTIONS AND CONDUIT PROJECTION FLASHING
5. REMOVE FLASHING FROM HEATER STACK THIMBLE PROJECTION
6. ALL EXISTING ROOF DRAINS TO REMAIN REMOVE STRAINER AND CLAMPING RING FOR REINSTALLATION, REPLACE ANY MISSING, DETERIORATED, DEFECTIVE, OR BROKEN DRAIN COMPONENTS
7. REMOVE GUTTER AND DOWN SPOUTS FROM ROOF EDGE, DISCARD REMOVED METAL COMPONENTS
8. REMOVE COUNTER FLASHING FROM REGLET RECEIVER BELOW "Z" CHANNEL WALL PANEL CLOSURE TO CLEAN
9. REMOVE EXISTING MEMBRANE CURB FLASHING FROM PROJECTIONS AND SLEEPERS
10. REMOVE GUY WIRE SUPPORT UMBRELLA INDIVIDUALLY AS TO MAINTAIN STACK SUPPORT DURING DEMOLITION PROCESS
11. SET ASIDE ALUMINUM COPINGS FOR RE-INSTALLATION FOLLOWING EPDM FLASHING INSTALLATION
12. REMOVE TWO-PIECE FASCIA METAL AND RELATED COMPONENTS FROM WALL AT ROOF EDGE
13. REMOVE METAL COUNTERFLASHING FROM REGLET AT WALL PROJECTION, CLEAN REGLET RECEIVER FOR RE-USE
14. REMOVE METAL COPING FROM SECTION TRANSITION WALL PROJECTION, DISCARD
15. REMOVE EXISTING ROOFING MATERIAL DOWN TO THE STRUCTURAL DECK SURFACE

RENOVATION NOTES:

1. CONTRACTOR RESPONSIBLE TO FIELD VERIFY ALL MEASUREMENTS PRIOR TO MATERIAL INSTALLATION
2. SWEEP DECK FLUTES FREE DEBRIS BEFORE INSTALLING ONE (1) LAYER OF 5/8" GYPSUM BASE BOARD MECHANICALLY FASTENED PER FM 1-105 REQUIREMENTS
3. INSTALL SELF ADHERED VAPOR BARRIER TO THE GYPSUM BOARD
4. INSTALL ONE (1) LAYER OF 1.5" POLYISO INSULATION USING LOW-RISE FOAM IN COMPLIANCE WITH FM 1-105 WIND UPLIFT REQUIREMENTS
5. INSTALL ONE (1) LAYER OF 1.5" POLYISO INSULATION USING LOW-RISE FOAM IN COMPLIANCE WITH FM 1-105 WIND UPLIFT REQUIREMENTS
6. INSTALL 1/4"-1/2" TAPERED POLYISO INSULATION ADHERED WITH TWO PART FOAM PER FM 1-105 REQUIREMENTS
7. INSTALL ONE (1) LAYER OF 1/2" HD COVERBOARD USING LOW-RISE FOAM IN COMPLIANCE WITH FM 1-105 WIND UPLIFT REQUIREMENTS
8. INSTALL 4' X 8' X 1/2" EXTERIOR GRADE PLY WOOD AT ALL DOOR EGRESSSES' AND LADDER ACCESSSES
9. INSTALL NEW 24 GA STAINLESS STEEL GUTTERS AND DOWNSPOUTS AT ROOF EDGE TO BE COVERED WITH FASCIA COMPONENT, SEALED WATERTIGHT
10. RAISE ALL CURBS TO A MINIMUM OF 8" ABOVE FINISHED MEMBRANE SURFACE
11. INSTALL EPDM FITCH PANS AND 2 PART SEALANTS ONLY WHERE MANDATORY TO MAINTAIN A WATERTIGHT DETAIL
12. INSTALL NEW 24 GA STAINLESS STEEL COUNTER FLASHING INTO CLEAN, EXISTING REGLET RECEIVER WITH DOW 190 SEALANT ATOP CAULK TRAY
13. INSTALL ONE (1) LAYER OF 60 MIL EPDM MEMBRANE WITH 3" OVERLAPPING SEAMS WITH EPDM SEAM TAPE, FULLY ADHERE MEMBRANE FULLY ADHERED WITH LOW-VOC MEMBRANE ADHESIVE
14. INSTALL FULLY-ADHERED 60 MIL EPDM FLASHING OVER 2" WIDE BUTYL TAPE, TERMINATE WITH A 1" ALUMINUM BAR FASTENED INTO EACH GIVEN ALLOWANCE
15. REINSTALL EXTRUDED ALUMINUM COPING CAPS TO SECTION DIVIDING PARAPET WALLS
16. INSTALL WALK PADS AT SERVICEABLE EQUIPMENT, LADDER, AND DOORS ACCESS POINTS
17. INSTALL A YELLOW WARNING LINE 10' INTO PERIMETER
18. INSTALL NEW ACCESS LADDER TO BRICK WALL FACE
19. INSTALL EPDM RUBBER BOOTS TO SOIL STACK AND GUIDEWIRE SUPPORT PROJECTIONS
20. INSTALL DRAIN FLASHING AND SNAKE ALL DRAINS FOLLOWING PROJECT COMPLETION



KEY NOTE LEGEND

- ⊙ SECTION ID
- ① DEMOLITION NOTE
- ② RENOVATION NOTE
- ⊕ DETAIL SECTION CUT

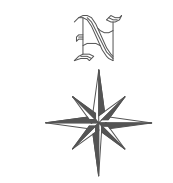
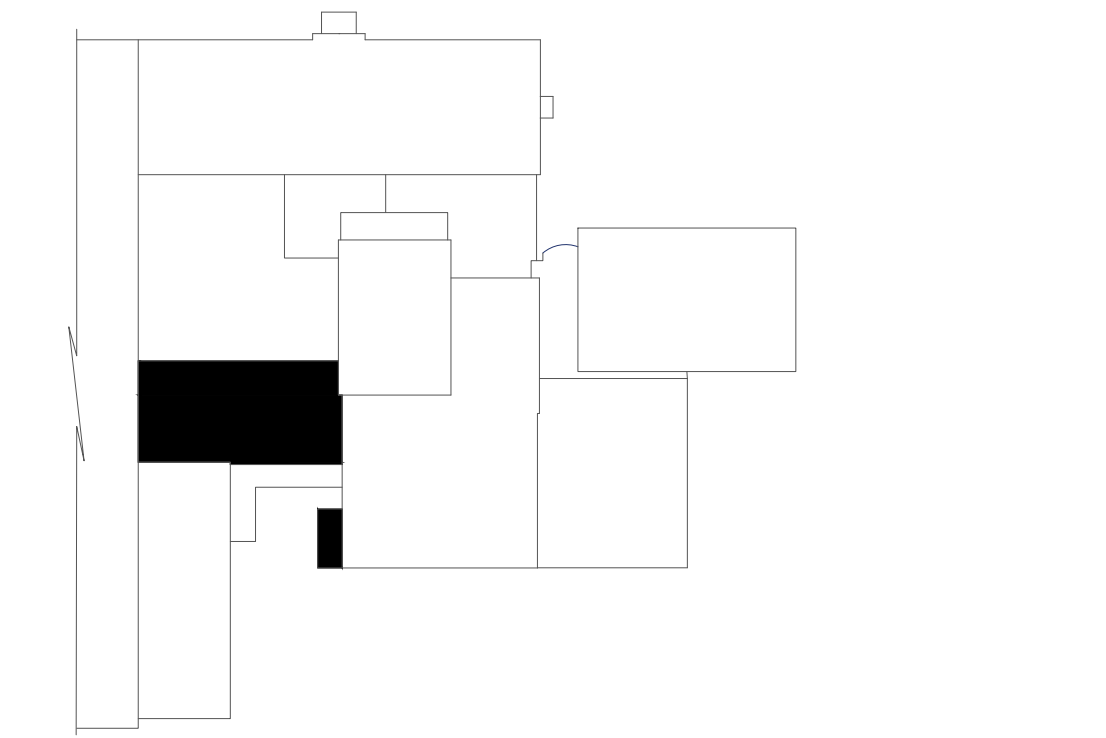
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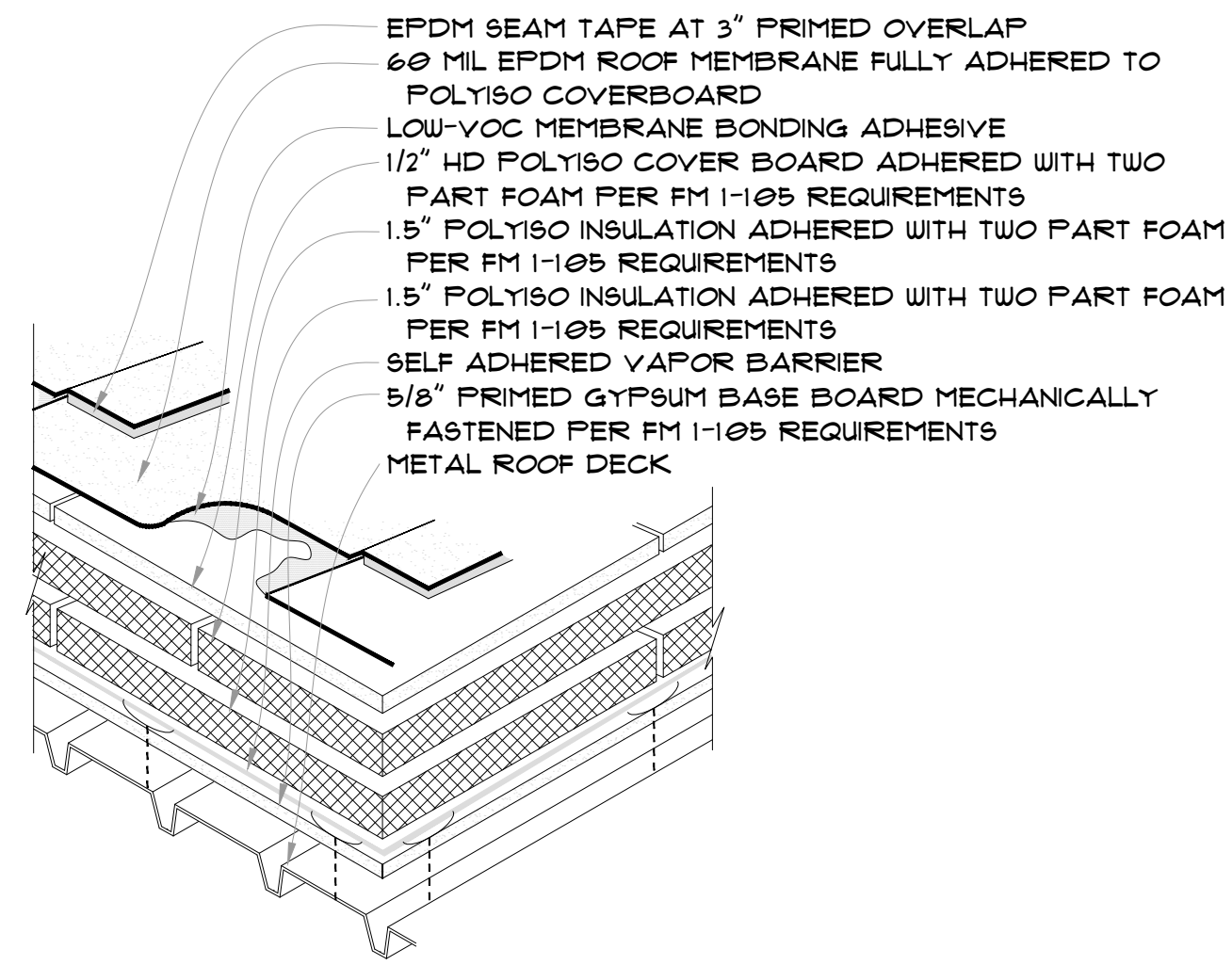
- ⊙ 2,920 SQ FT
- ⊙ 210 SQ FT

ROOFING LEGEND

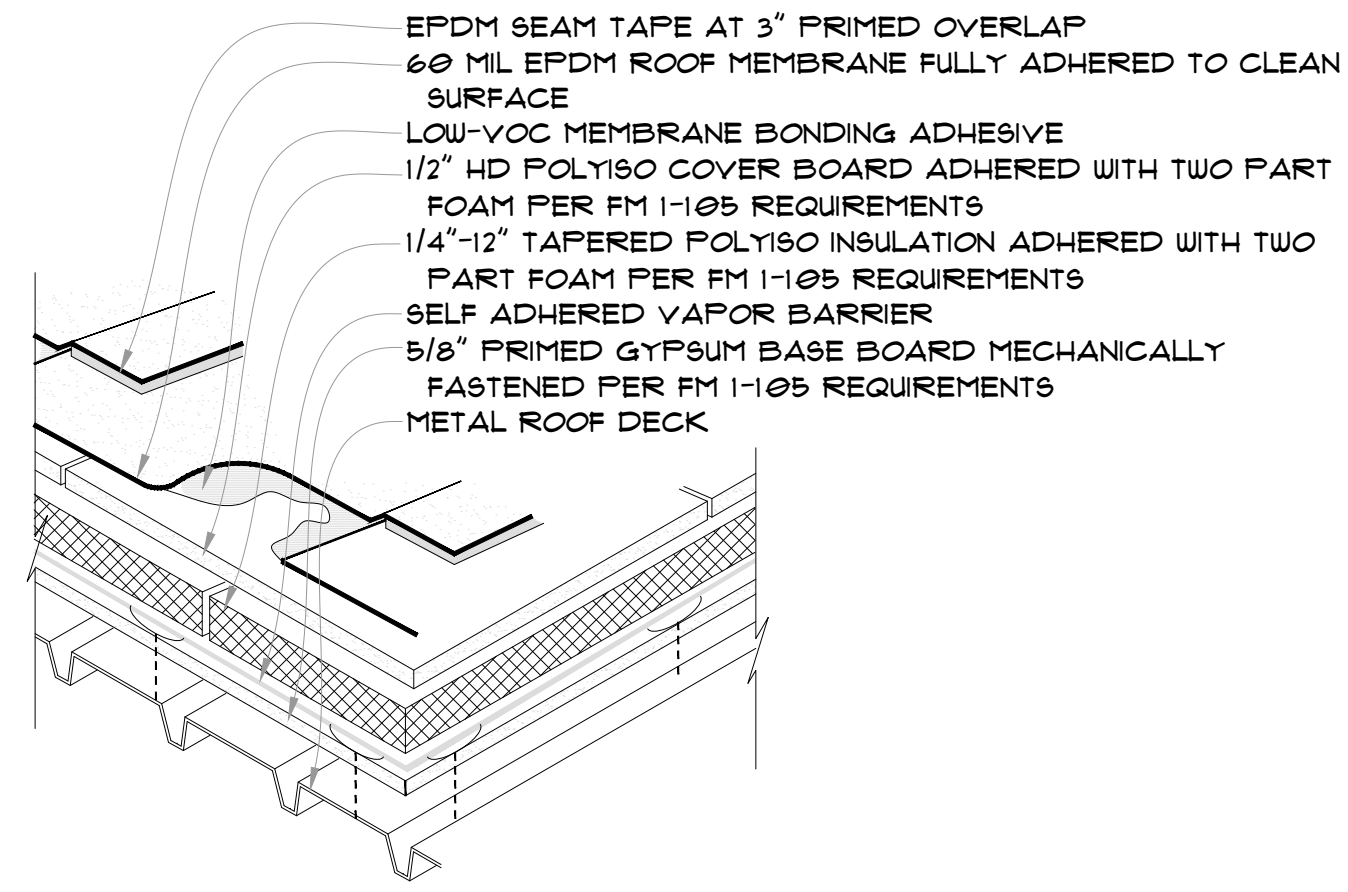
- ⊙ ROOF AREA IDENTIFIER
- ▲ CORE EXTRACTION
- ① DEMOLITION KEY NOTE
- ② RENOVATION KEY NOTE
- ⊕ STACK ON BASE
- CONDUIT
- ⊙ GUY WIRE SUPPORT
- ⊕ ROOF DRAIN
- ⊕ DOMED VENTILATOR
- SOIL STACK

KEY PLAN
SCALE: NTS

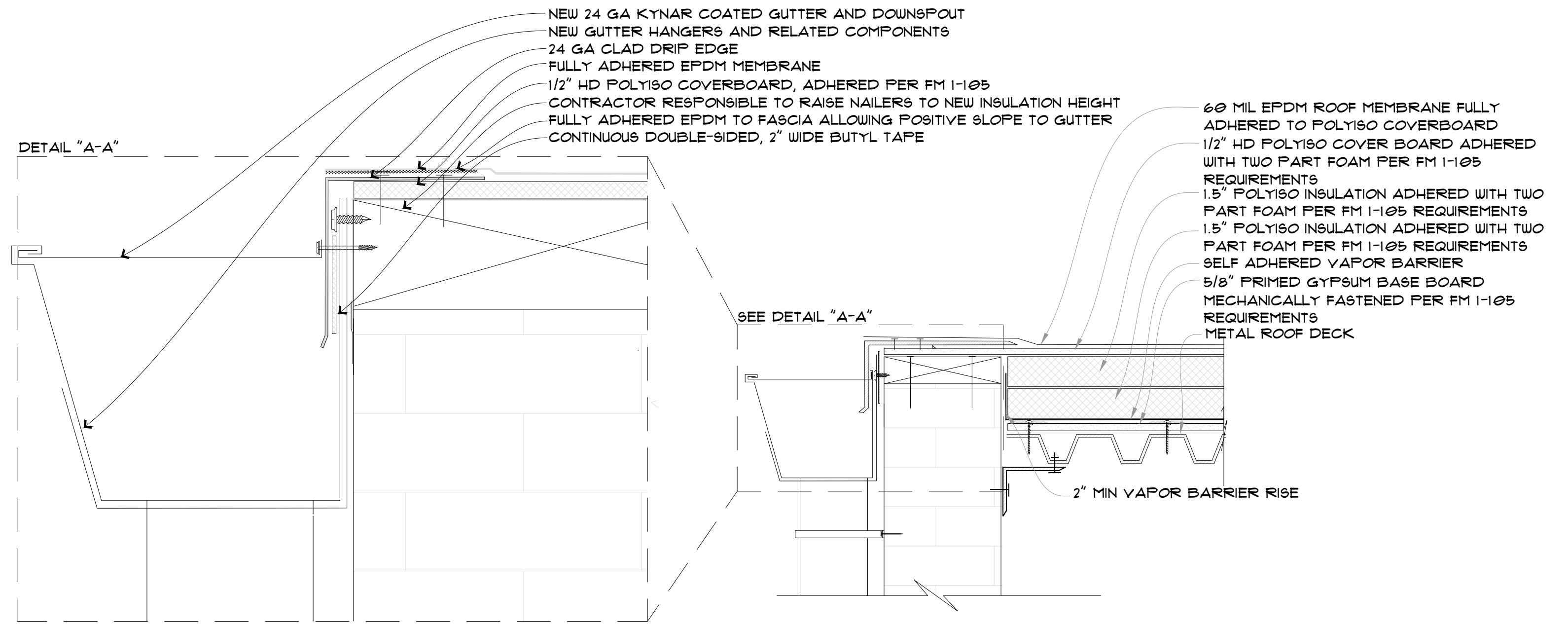




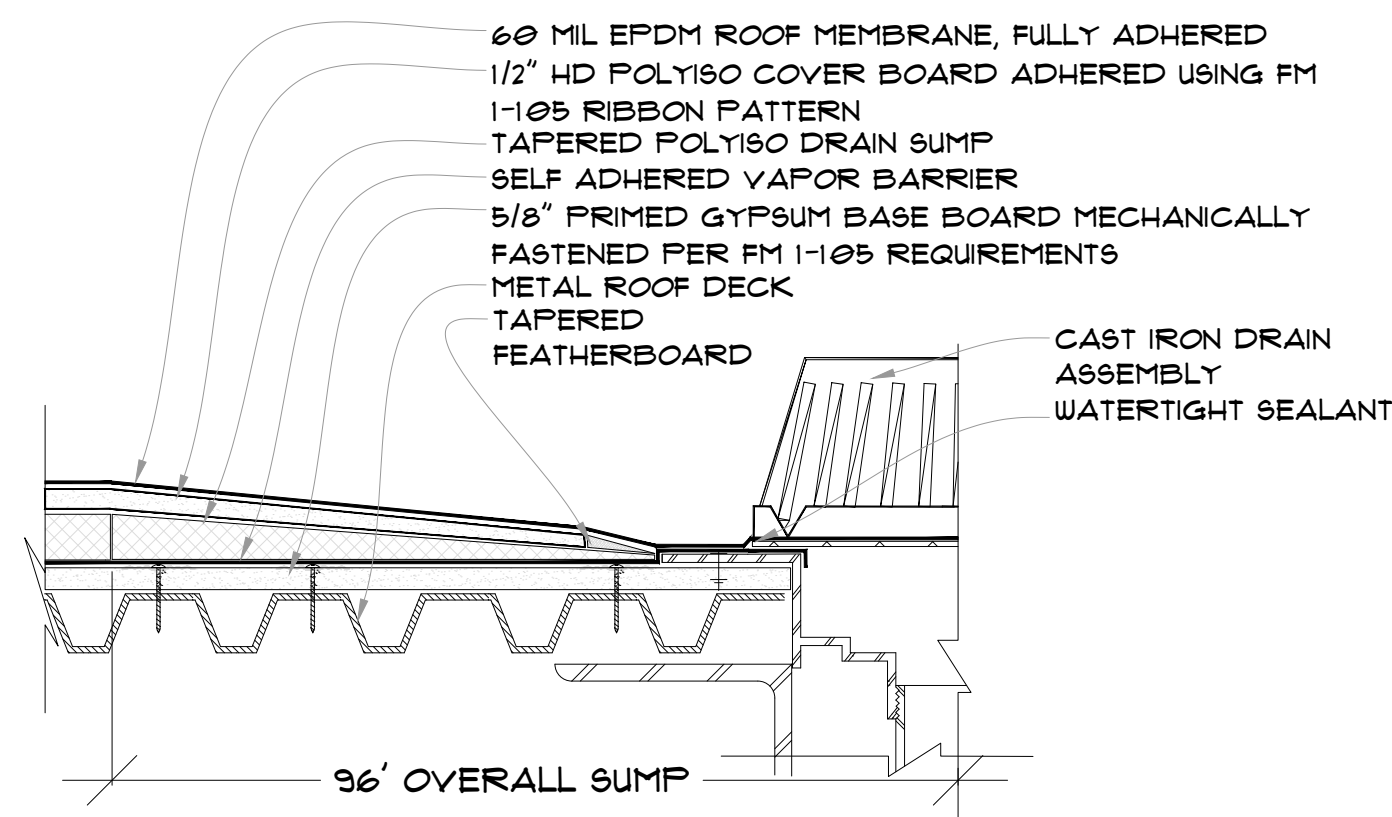
1 FIELD ASSEMBLY - SECTION 1
 A102 SCALE: 1" = 1 1/2" - 0" - ARCH EXP D



2 FIELD ASSEMBLY - SECTION 2
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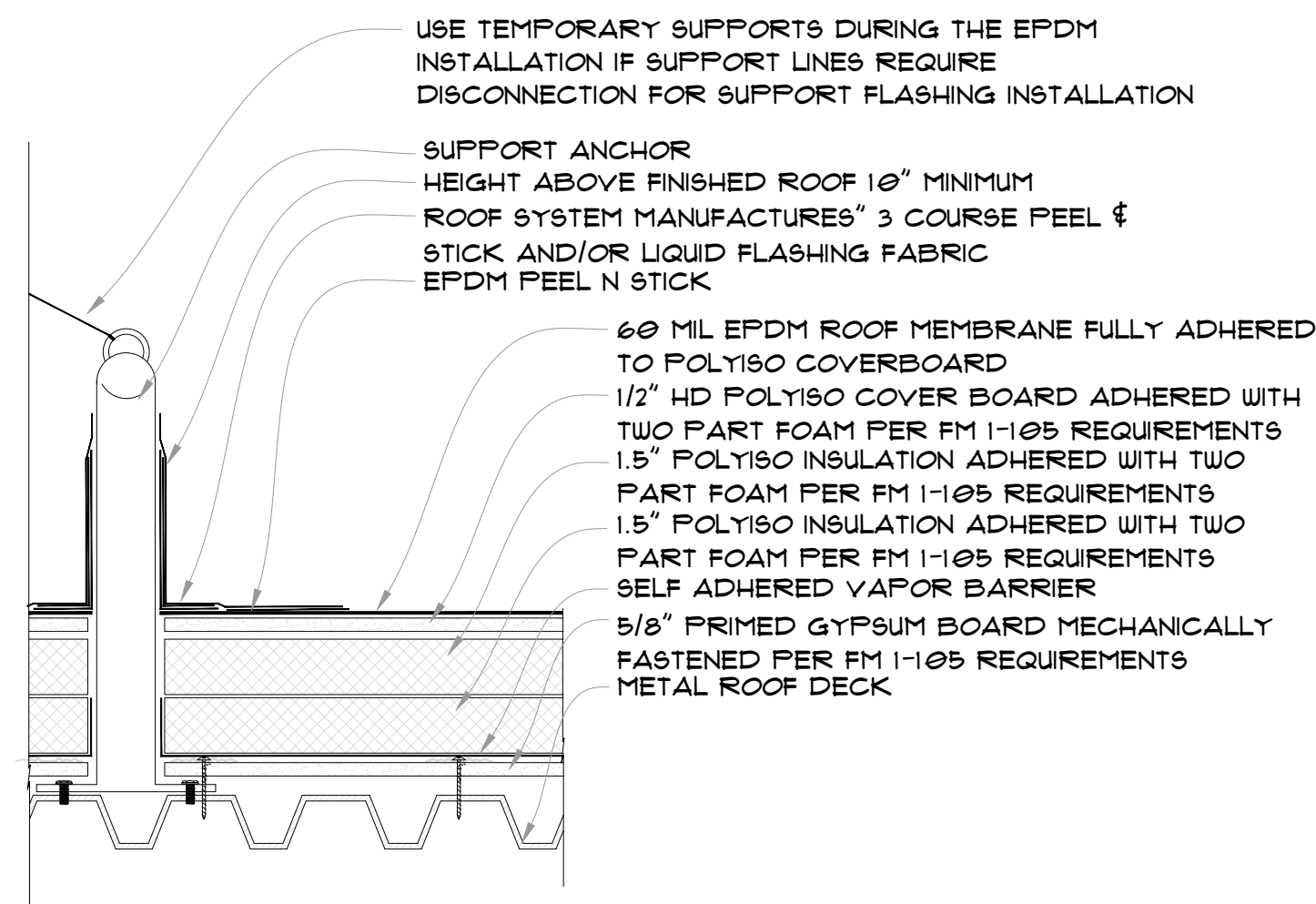


3 GUTTER DETAIL
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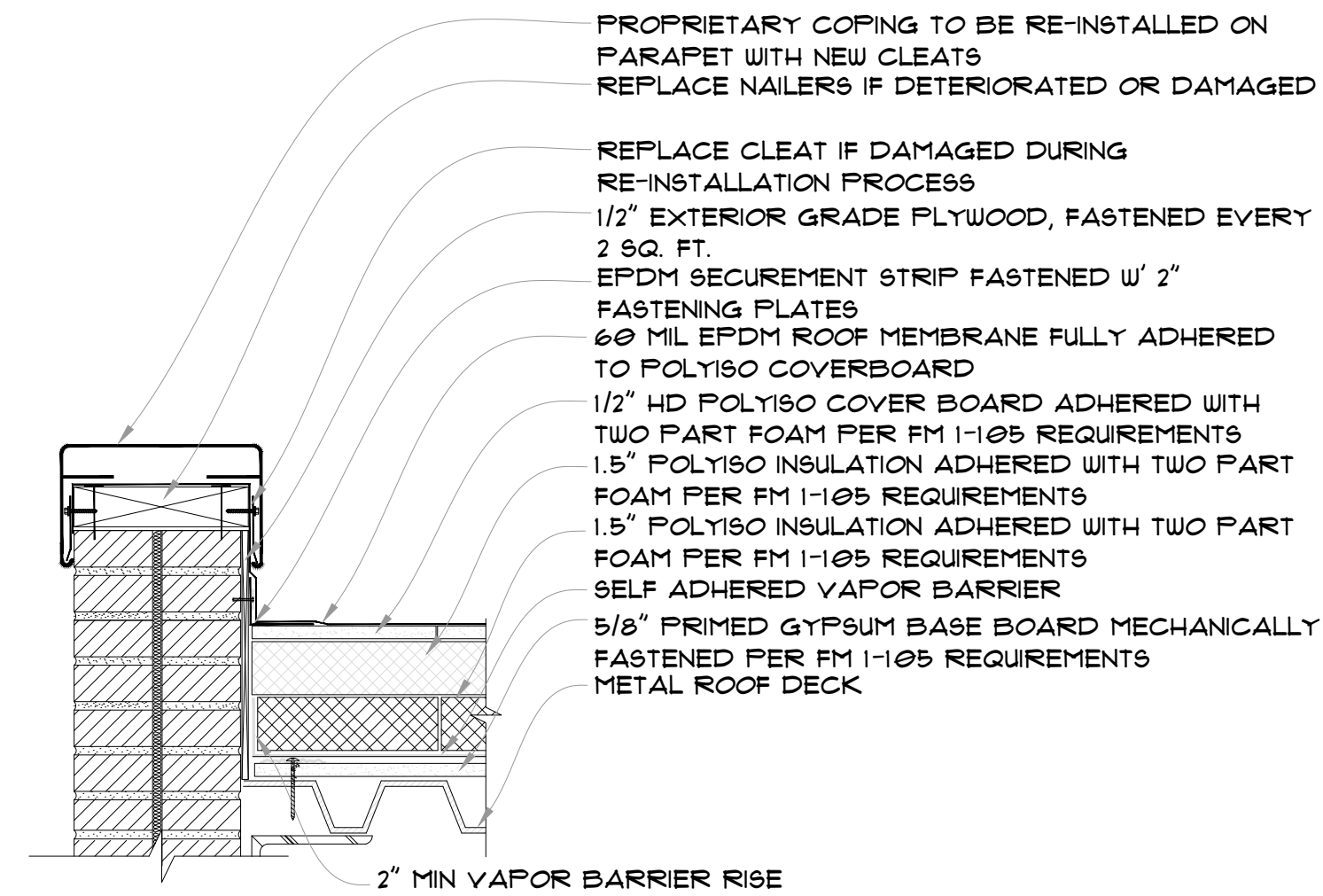


NOTE:
 - INSTALL NEW DRAIN HARDWARE

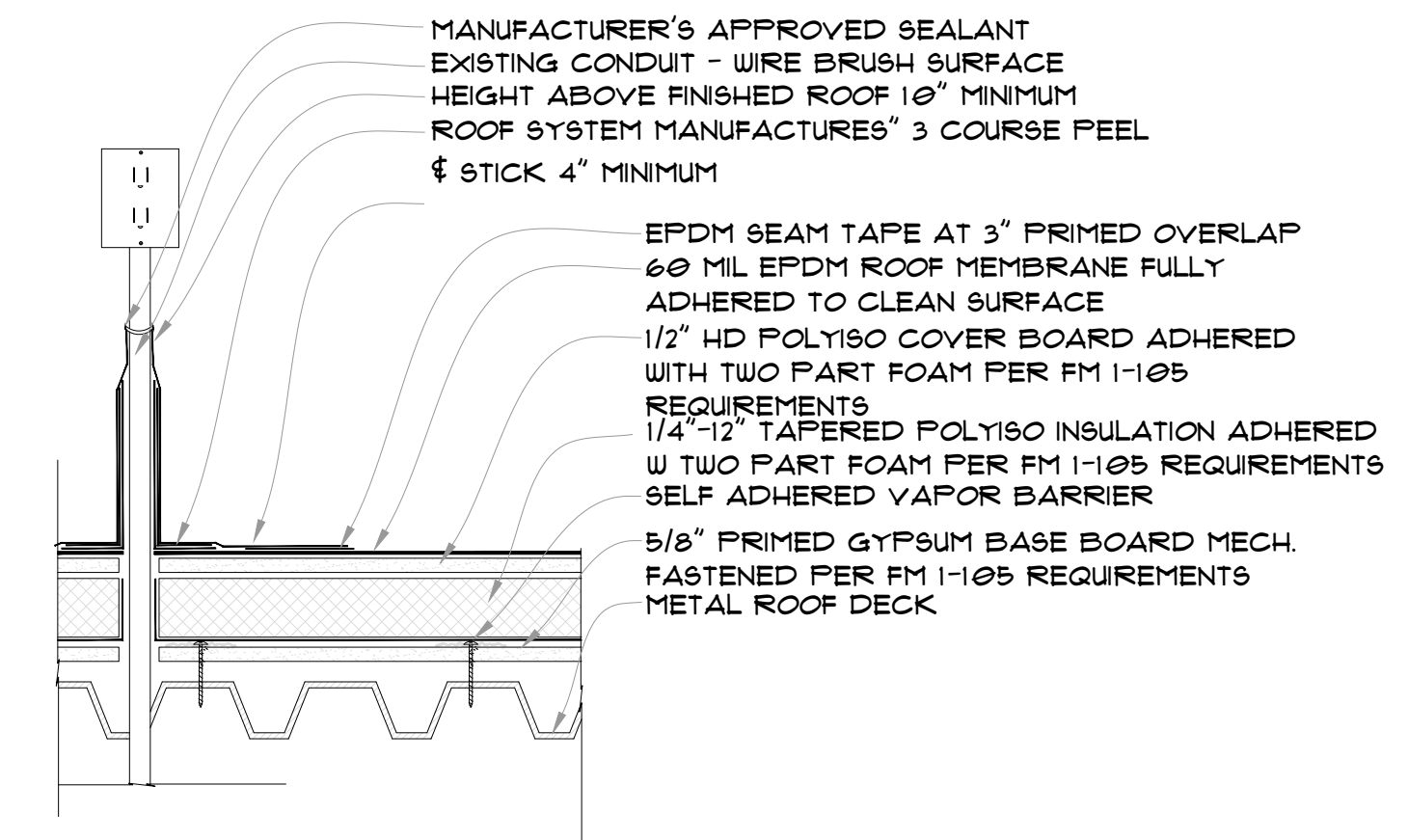
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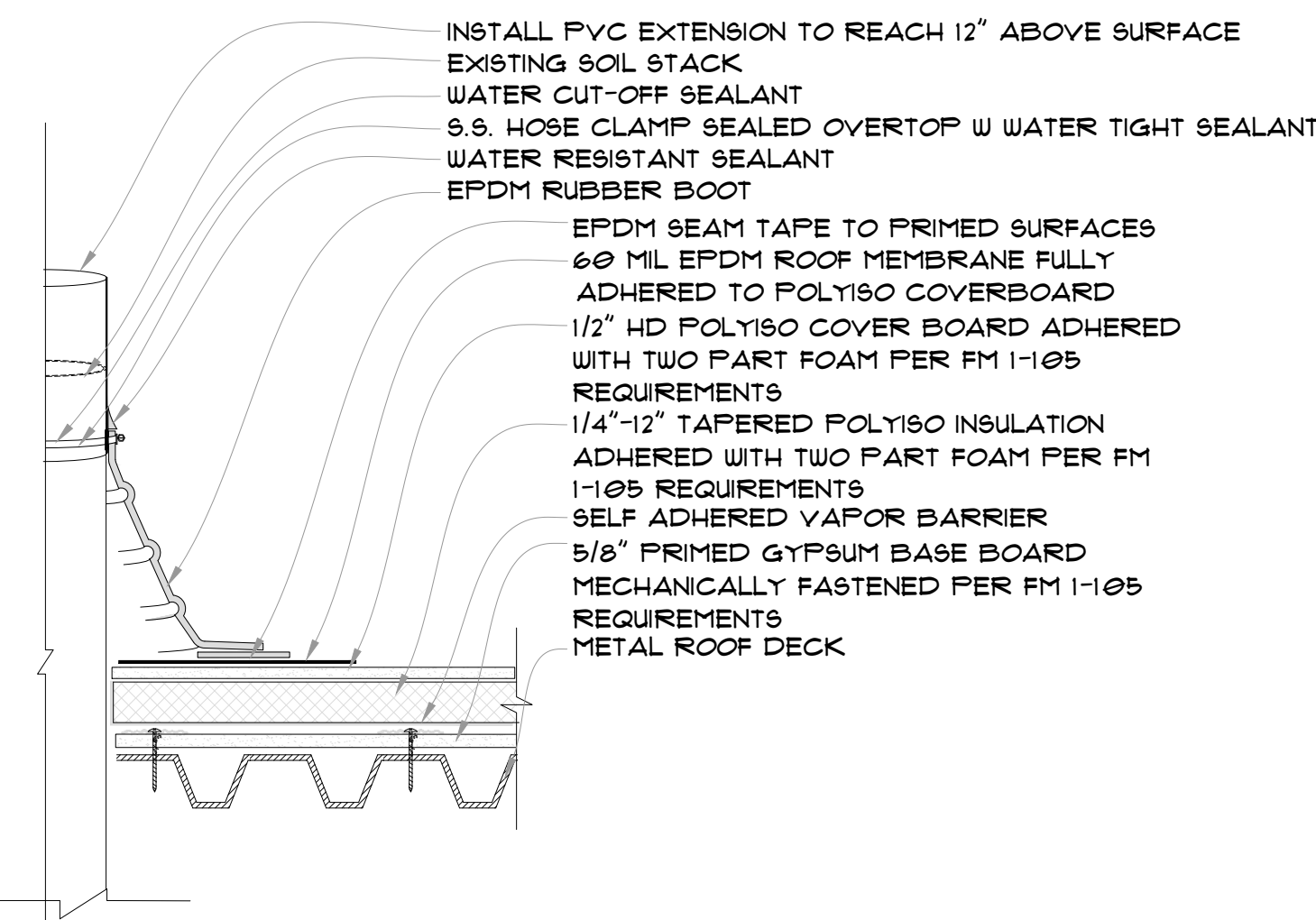
5 GUIDE WIRE FLASHING
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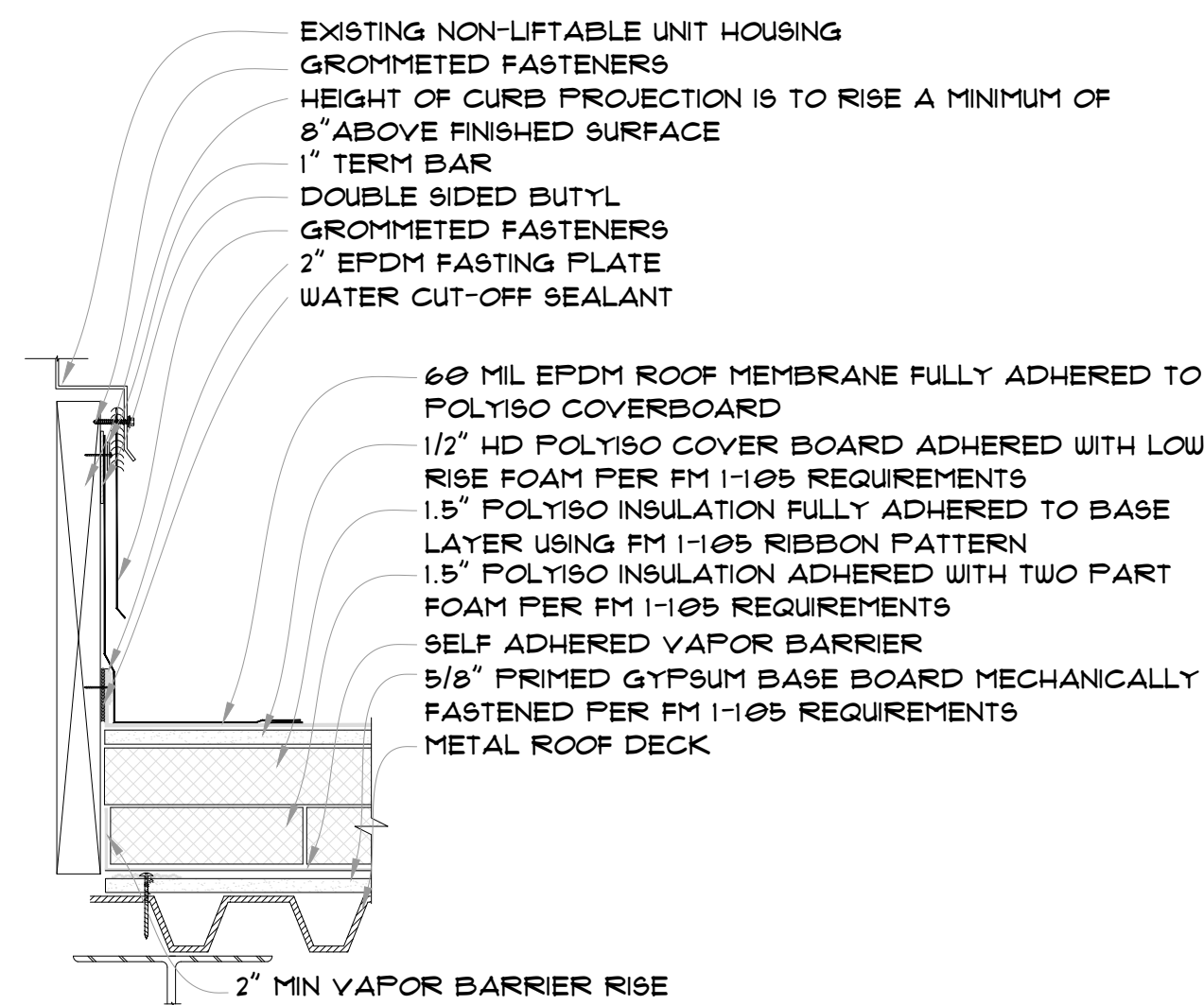
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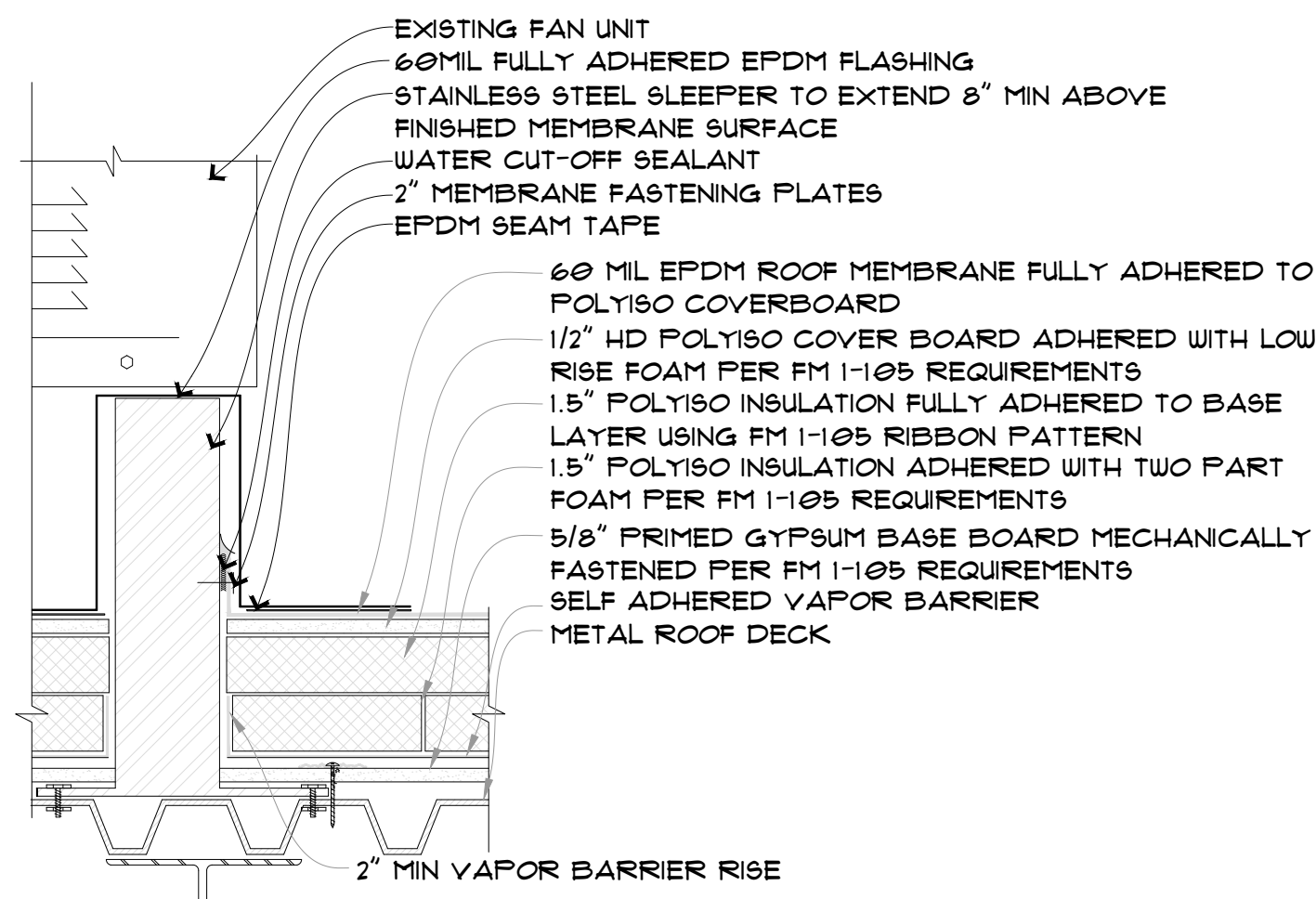
7 FIELD WRAP
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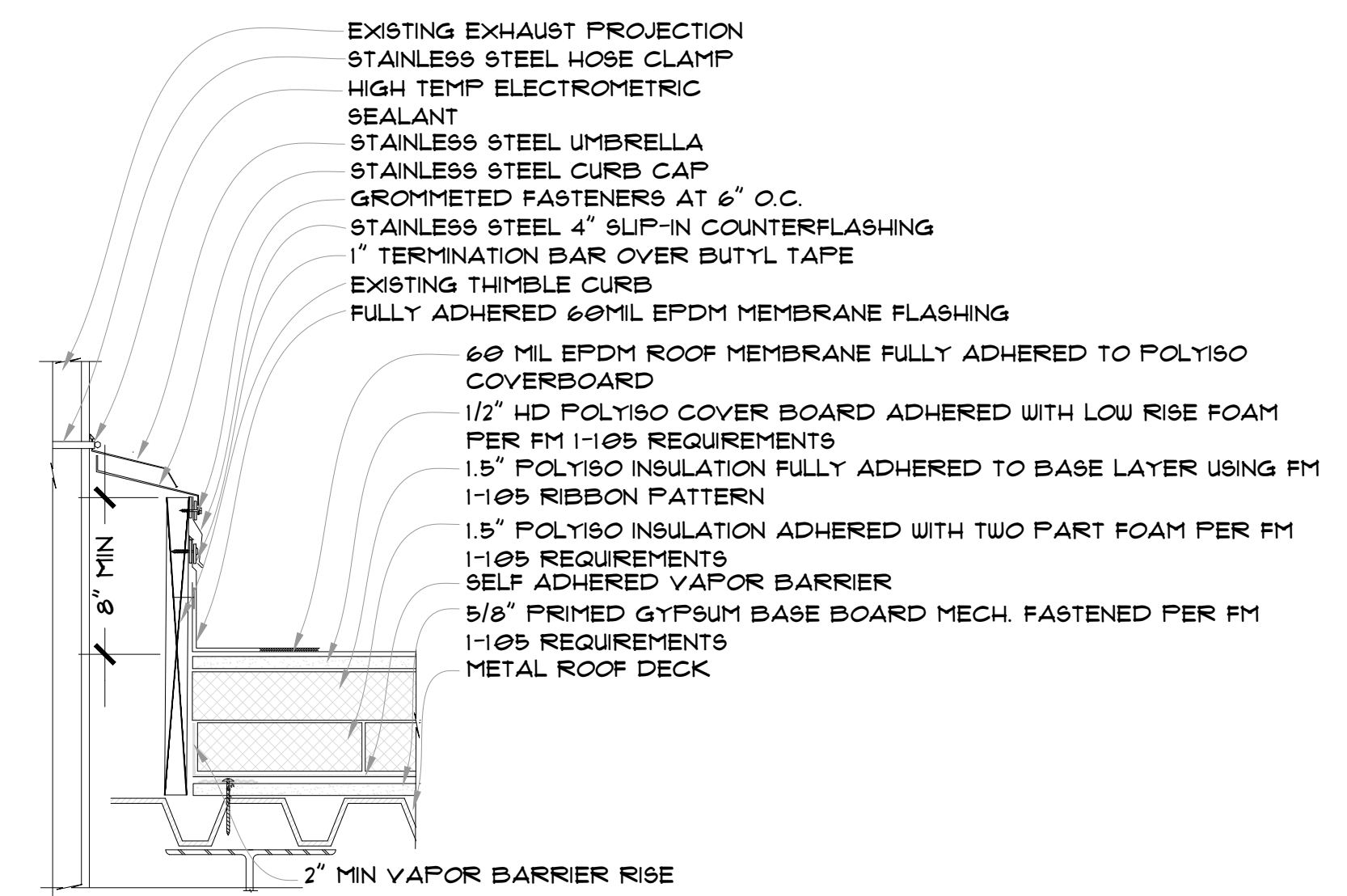
8 SOIL STACK BOOT
 A102 SCALE: 1" = 1 1/2" - 0" - ARCH EXP D



9 STATIONARY UNIT
 A102 SCALE: 1" = 1 1/2" - 0" - ARCH EXP D



10 S.S. SLEEPER
 A102 SCALE: 1" = 1 1/2" - 0" - ARCH EXP D



11 THIMBLE - SECTION 1
 A102 SCALE: 1" = 1 1/2" - 0" - ARCH EXP D



ARCH EXP D
 36" x 24"

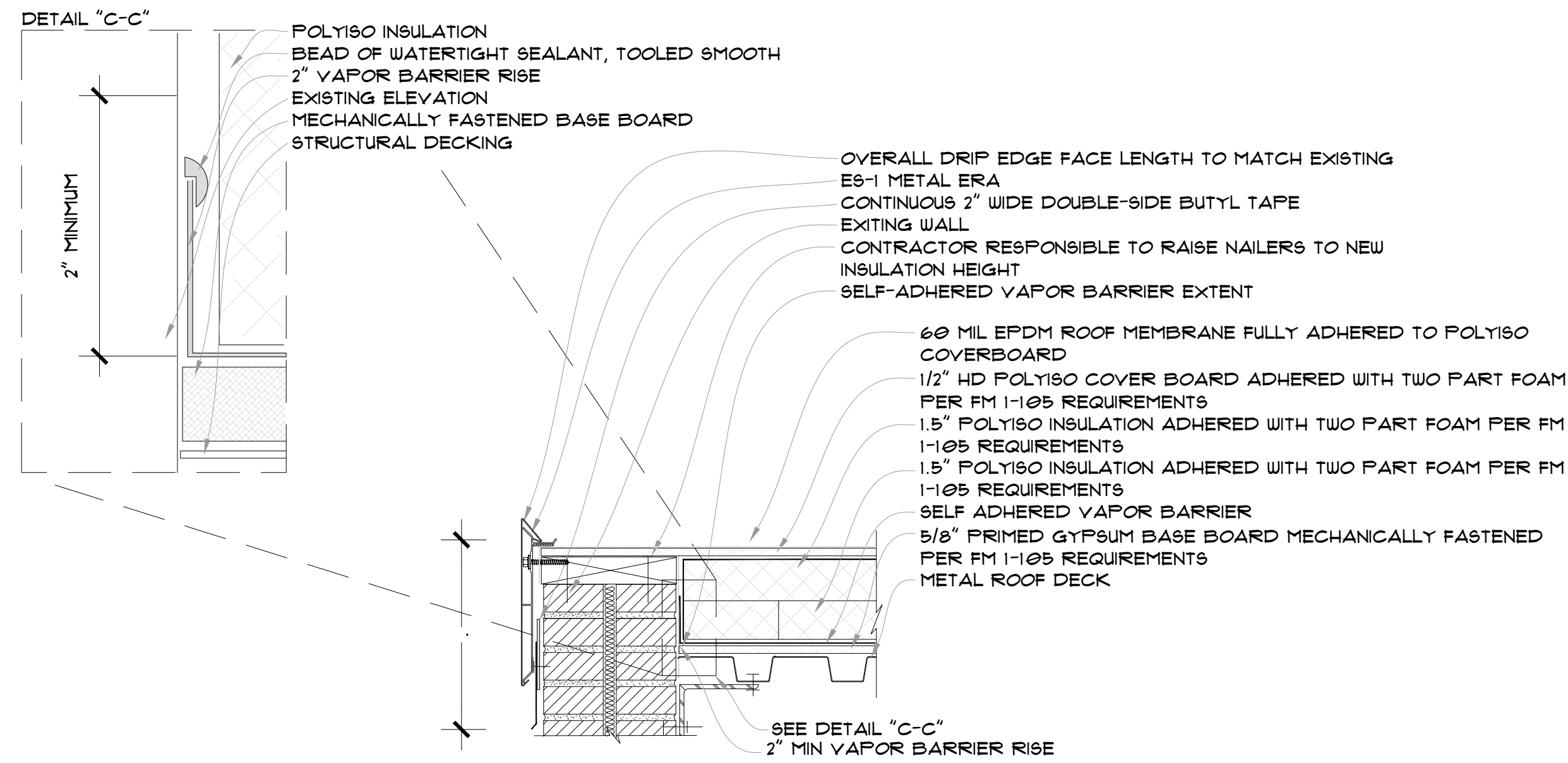
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 CHECKED BY: J.J.G.

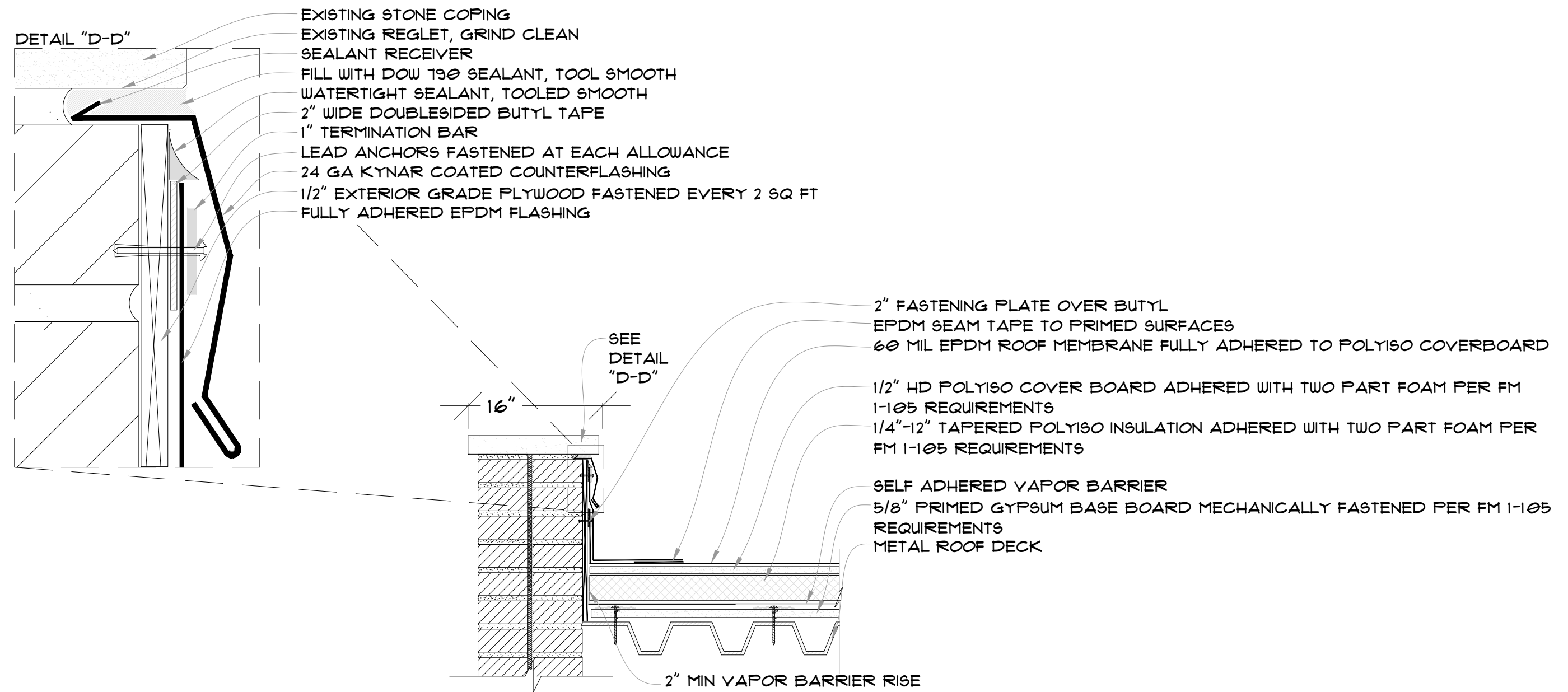
RMT ROOFING AND WATERPROOFING CONSULTANTS, INC.
 116 SOVEREIGN COURT #16
 BOONE COUNTY, MISSOURI 65019
 (650) 351-2189

VARIOUS LOCATIONS - ROOF REPLACEMENTS VETERINARY MEDICINE EAST COLUMBIA, BOONE COUNTY, MISSOURI, ROOF DETAILS

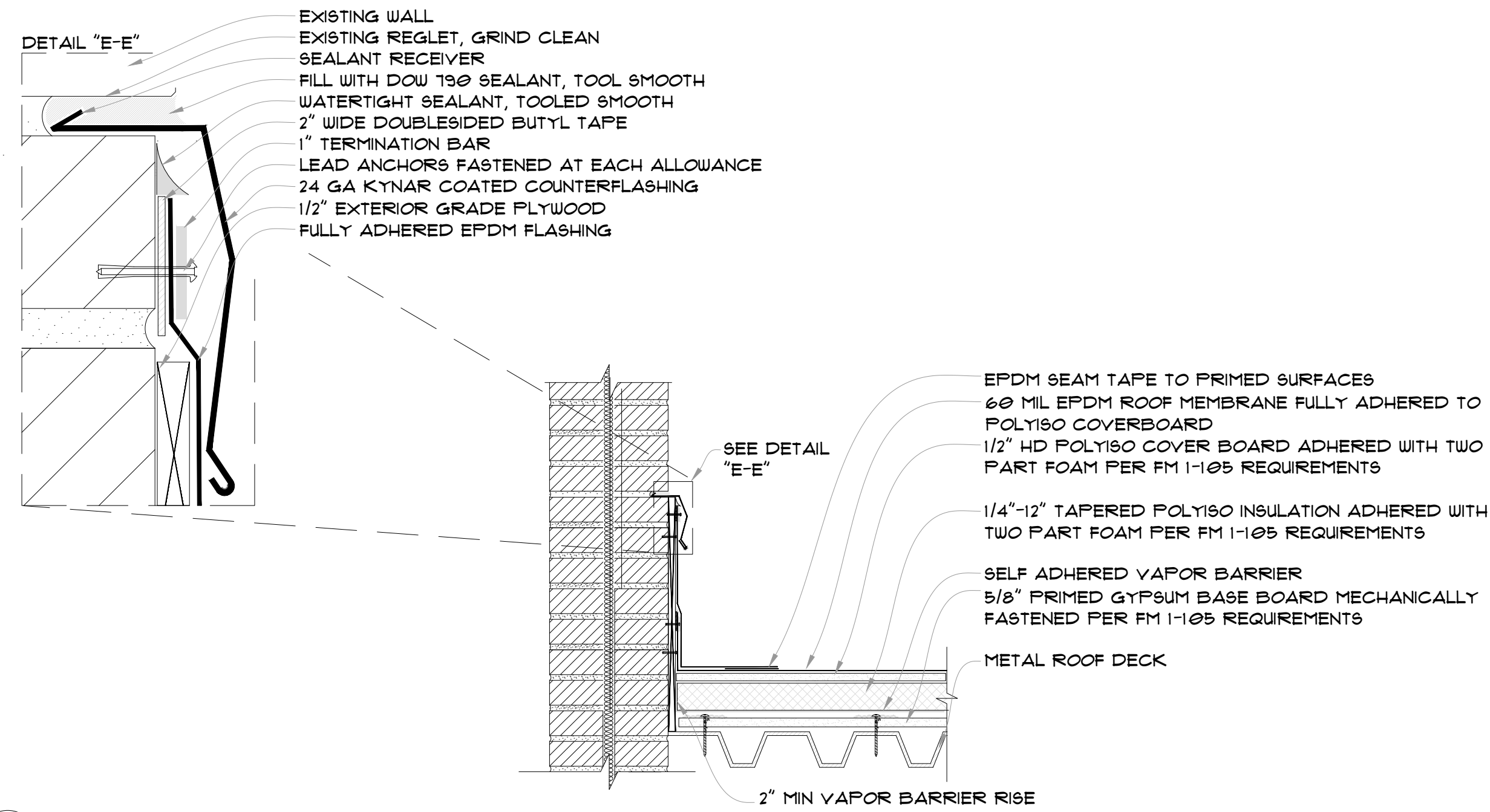
PROJECT NUMBER
CP241331
 SHEET
A102



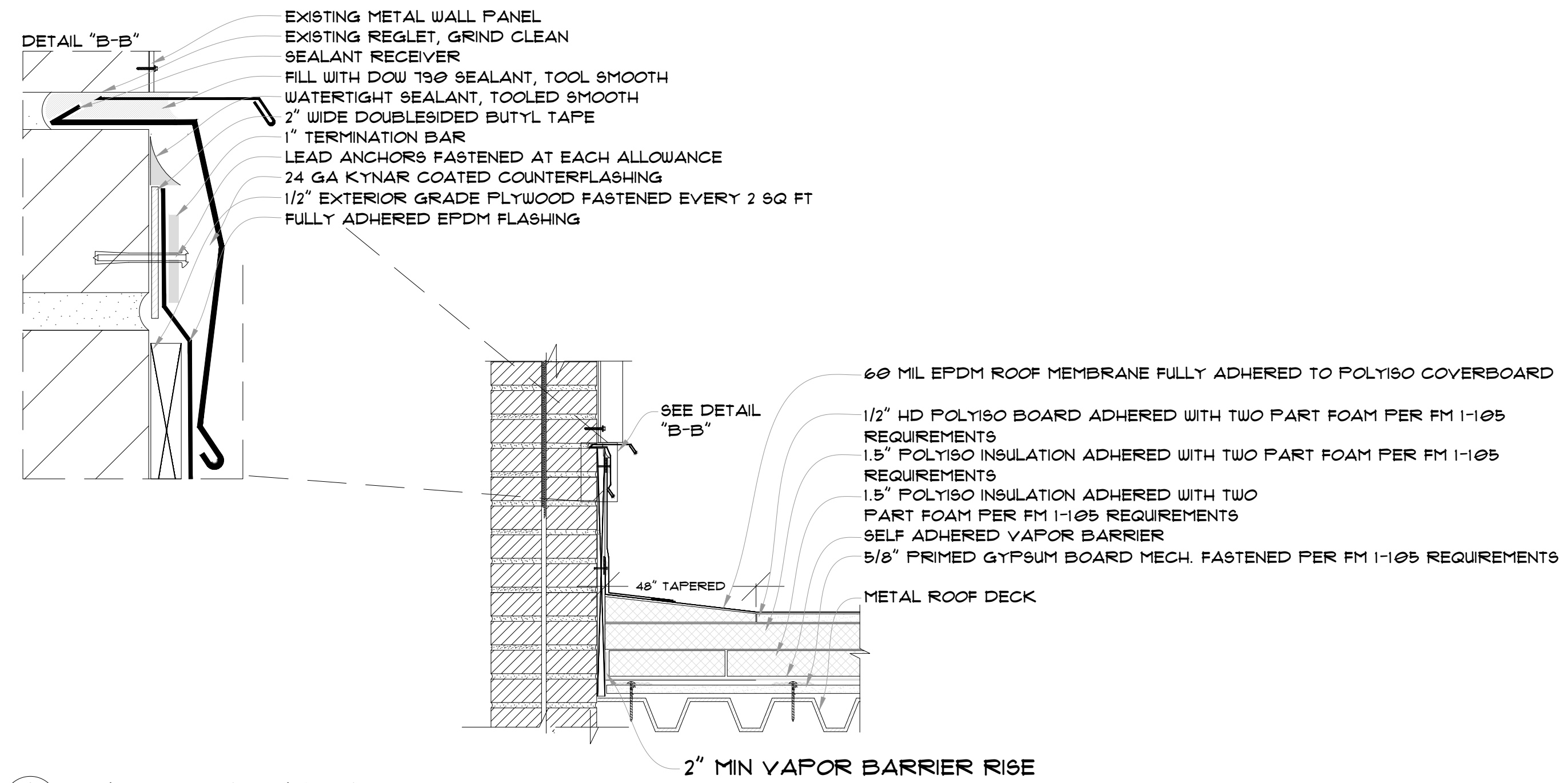
12 ROOF EDGE
 A103 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



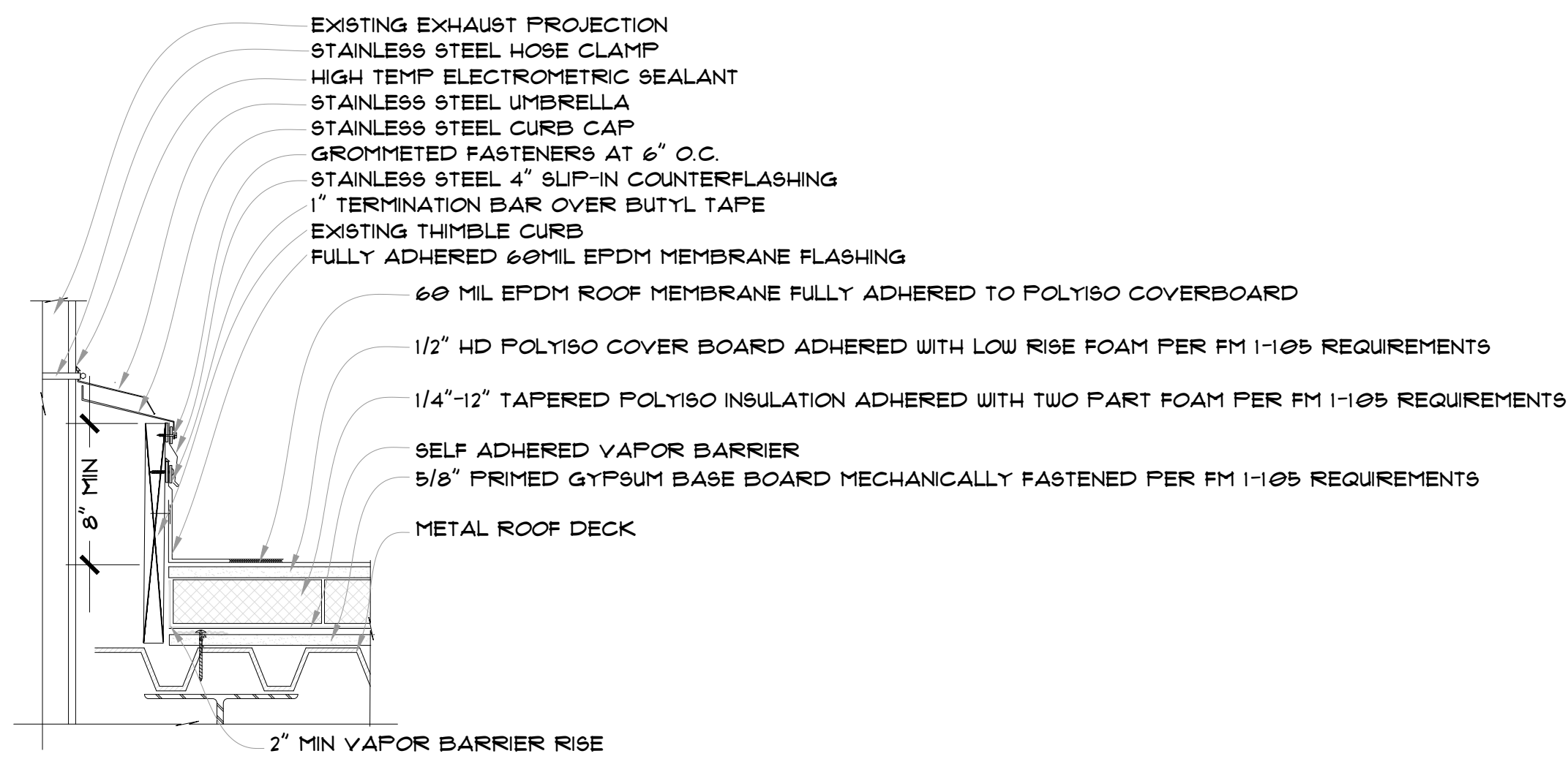
13 PARAPET - STONE COPING
 A103 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



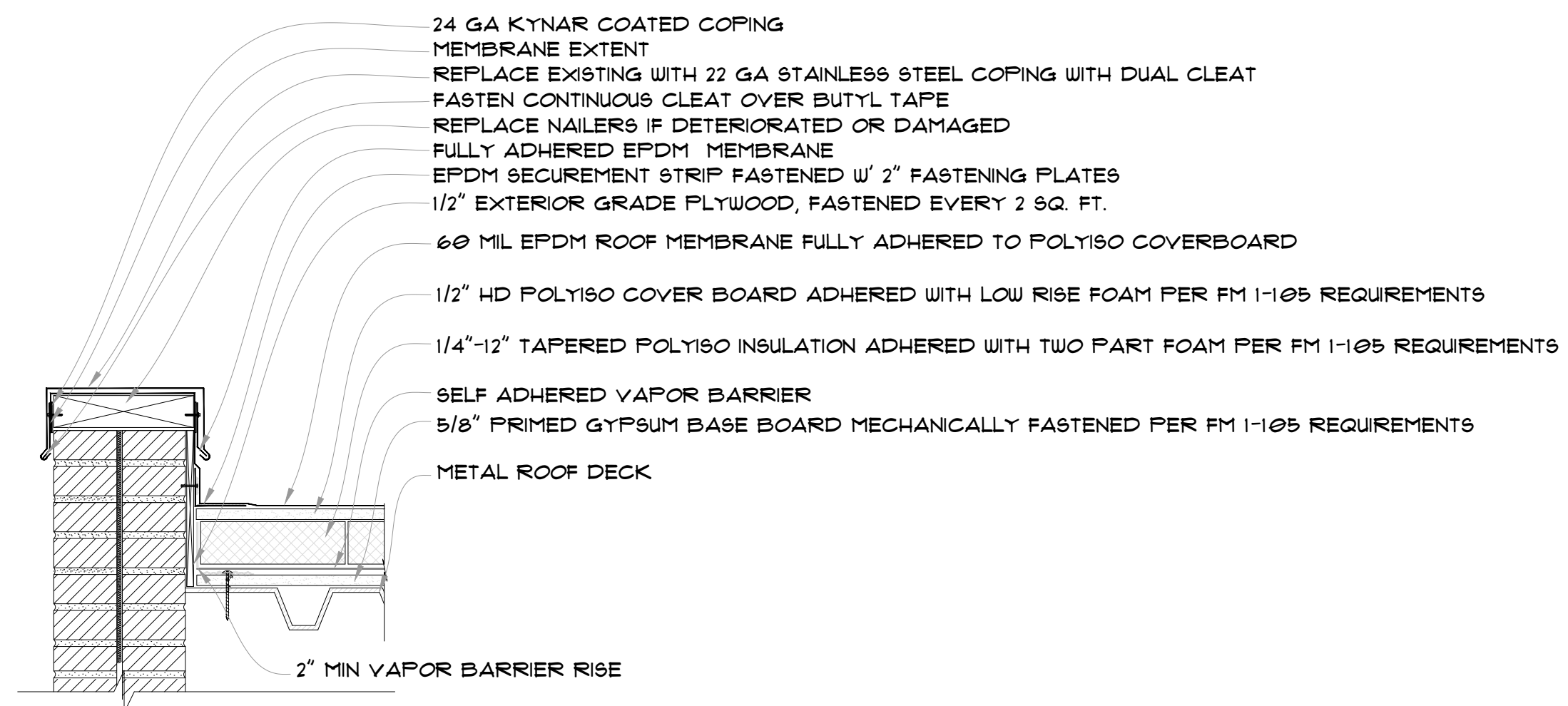
14 SURFACE-MOUNTED COUNTERFLASHING
 A103 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



15 REGLETTED COUNTERFLASHING
 A103 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



16 THIMBLE - SECTION 2
 A103 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



17 PARAPET COPING
 A103 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D

2-14-24

ARCH EXP. D
36" X 24"

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THIS DOCUMENT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. IT IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. ANY VIOLATION OF THESE TERMS SHALL BE CONSIDERED A BREACH OF CONTRACT.

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07/22/24

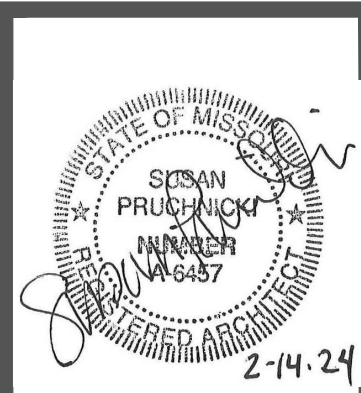
RMT ROOFING AND WATERPROOFING CONSULTANTS, INC.
410 SOVEREIGN COURT #18
MANCHESTER, MO 65301
(636) 331-7185

DRAWN BY: J.J.G. CHECKED BY: J.J.G.

VARIOUS LOCATIONS - ROOF REPLACEMENTS
VETERINARY MEDICINE EAST
COLUMBIA, BOONE COUNTY, MISSOURI
ROOF DETAILS

PROJECT NUMBER
CP241331

SHEET
A103



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RMT RMT ROOFING AND WATERPROOFING CONSULTANTS, INC.
 416 SOUTH BRIGGS COURT #18
 MANCHESTER, MO 63091
 (636) 391-2185

VARIOUS LOCATIONS - ROOF REPLACEMENTS
VETERINARY MEDICINE EAST
COLUMBIA, BOONE COUNTY, MISSOURI
ROOF PLAN

PROJECT NUMBER
CP241331
 SHEET
A201

EXISTING ROOF CONSTRUCTION:

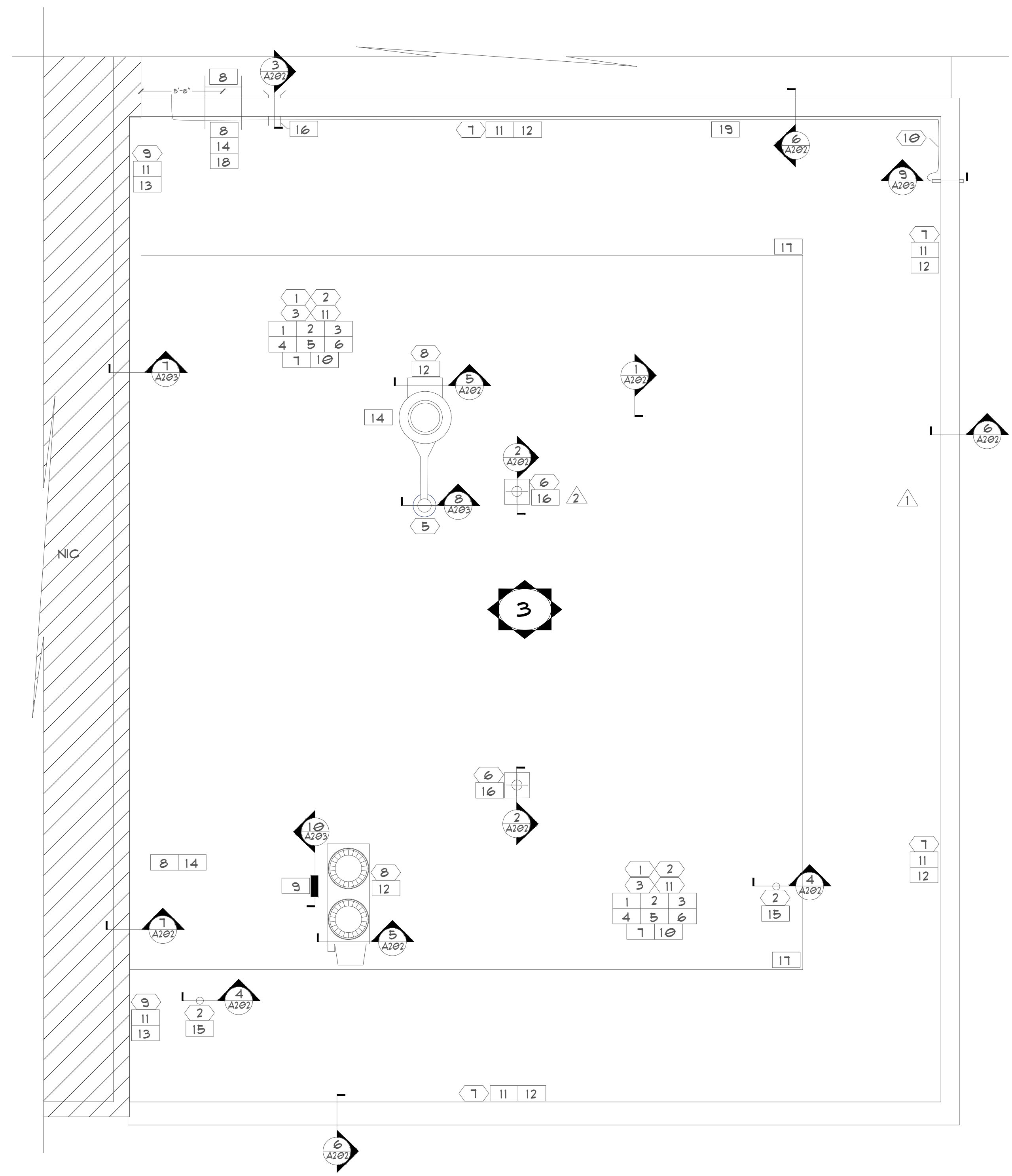
- ▲ METAL DECK, 1" PERLITE, A9F VB, 25", 1/2" FB, 4 PLY BUR (4.5" TOTAL)
- ▲ METAL DECK, 1" PERLITE, A9F VB, 25", 1/2" FB, 4 PLY BUR (4.5" TOTAL)

DEMOLITION NOTES:

- ① CONTRACTOR RESPONSIBLE TO RECORD CONDITIONS BELOW 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 GRAVEL FROM ROOF SURFACE
- ④ REMOVE LEAD FLASHING FROM SOIL PROJECTIONS AND CONDUIT PROJECTION FLASHING
- ⑤ REMOVE FLASHING FROM VENT PROJECTION
- ⑥ ALL EXISTING ROOF DRAINS TO REMAIN REMOVE STRAINER AND CLAMPING RING FOR REINSTALLATION, REPLACE ANY MISSING, DETERIORATED, DEFECTIVE, OR BROKEN DRAIN COMPONENTS
- ⑦ REMOVE COUNTER FLASHING FROM REGLET RECEIVER BELOW STONE COPING, CLEAN REGLET FOR RE-USE
- ⑧ REMOVE EXISTING MEMBRANE CURB FLASHING
- ⑨ REMOVE EXPANSION JOINT METALS AND RELATED COMPONENTS
- ⑩ ADJUST LIGHTNING ARREST SYSTEM TO ALLOW ROOFING INSTALLATIONS
- ⑪ REMOVE EXISTING ROOFING MATERIAL DOWN TO THE STRUCTURAL DECK SURFACE

RENOVATION NOTES:

- ① CONTRACTOR RESPONSIBLE TO FIELD VERIFY ALL MEASUREMENTS PRIOR TO MATERIAL INSTALLATION
- ② SWEEP DECK FLUTES FREE DEBRIS AND PRIME ROOF DECK WITH MANUFACTURE APPROVED PRIMER
- ③ INSTALL SELF-ADHERED VAPOR BARRIER TO THE METAL DECKING SURFACE
- ④ INSTALL ONE (1) LAYER OF 1.5" POLYISO INSULATION USING LOW-RISE FOAM IN COMPLIANCE WITH FM 1-105 WIND UPLIFT REQUIREMENTS
- ⑤ INSTALL ONE (1) LAYER OF 1.5" POLYISO INSULATION USING LOW-RISE FOAM IN COMPLIANCE WITH FM 1-105 WIND UPLIFT REQUIREMENTS
- ⑥ INSTALL 4' X 8' X 1/2" EXTERIOR GRADE PLY WOOD TO WALL SURFACES TO RECEIVE EPDM FULLY ADHERED FLASHING.
- ⑦ INSTALL ONE (1) LAYER OF 1/2" HD COVERBOARD USING LOW-RISE FOAM IN COMPLIANCE WITH FM 1-105 WIND UPLIFT REQUIREMENTS
- ⑧ INSTALL 4' X 8' X 1/2" EXTERIOR GRADE PLY WOOD AT ALL DOOR EGRESSSES' AND LADDER ACCESSSES
- ⑨ INSTALL EPDM PITCH PANS AND 2 PART SEALANTS ONLY WHERE MANDATORY TO MAINTAIN A WATERTIGHT DETAIL
- ⑩ INSTALL ONE (1) LAYER OF 60 MIL EPDM MEMBRANE WITH 3" OVERLAPPING SEAMS WITH EPDM BEAM TAPE, FULLY ADHERE MEMBRANE FULLY ADHERED WITH LOW-VOC MEMBRANE ADHESIVE
- ⑪ INSTALL FULLY-ADHERED 60 MIL EPDM FLASHING OVER 2" WIDE BUTYL TAPE, TERMINATE WITH A 1" ALUMINUM BAR FASTENED INTO EACH GIVEN ALLOWANCE
- ⑫ INSTALL 24 GA STAINLESS STEEL, SLIP IN COUNTERFLASHINGS WHERE EXISTING FLASHING DOES NOT EXTEND A MINIMUM OF 4" DOWNWARD
- ⑬ INSTALL NEW 24 GA STAINLESS STEEL COUNTER FLASHING AND EXPANSION COMPONENTS
- ⑭ INSTALL WALK PADS AT SERVICEABLE EQUIPMENT, LADDER, AND DOORS ACCESS POINTS
- ⑮ INSTALL EPDM RUBBER BOOTS TO SOIL STACK AND GUIDEWIRE SUPPORT PROJECTIONS
- ⑯ INSTALL DRAIN AND SCUPPER FLASHING AND SNAKE ALL DRAINS FOLLOWING PROJECT COMPLETION
- ⑰ INSTALL A YELLOW WARNING LINE 10' INTO PERIMETER
- ⑱ INSTALL WALL-MOUNTED LADDER ACCESS
- ⑲ THIRD PARTY TO INSTALL NEW LIGHTNING ARREST SYSTEM FOLLOWING PROJECT COMPLETION



KEY NOTE LEGEND

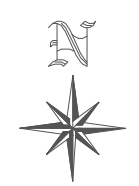
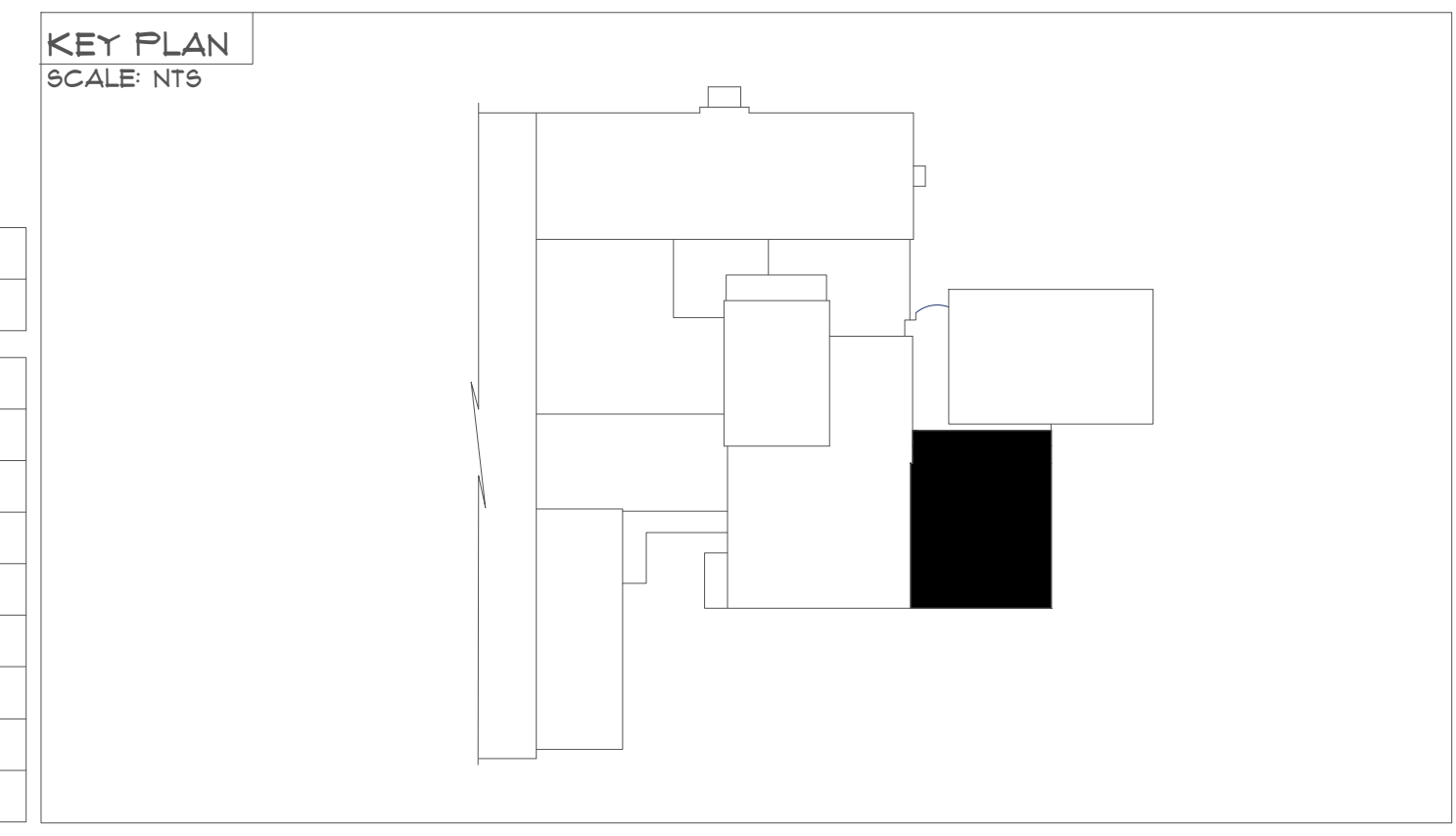
①	SECTION ID
②	DEMOLITION NOTE
③	RENOVATION NOTE
▲	DETAIL SECTION CUT

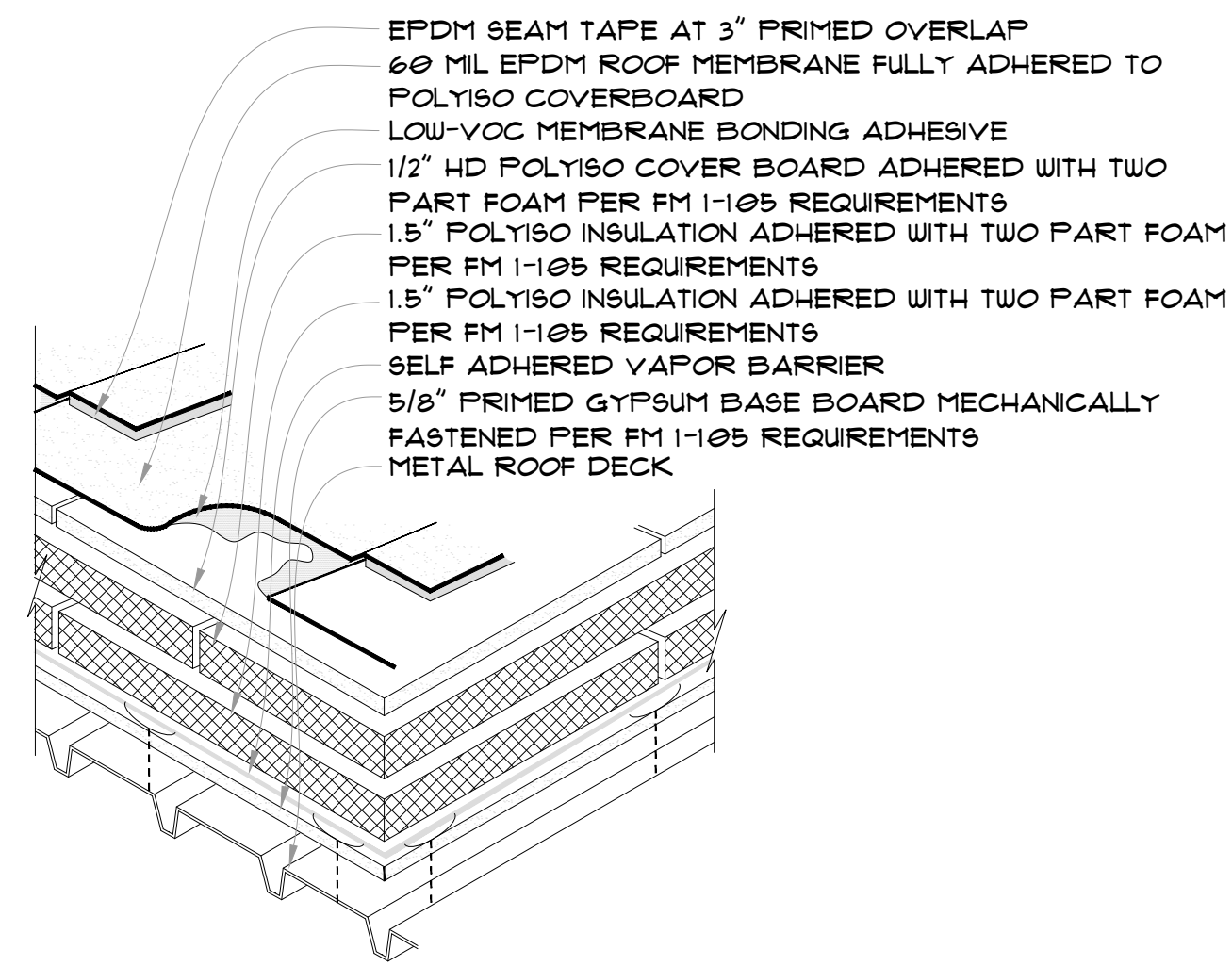
AREA LEGEND

⊗	3,820 SQ FT
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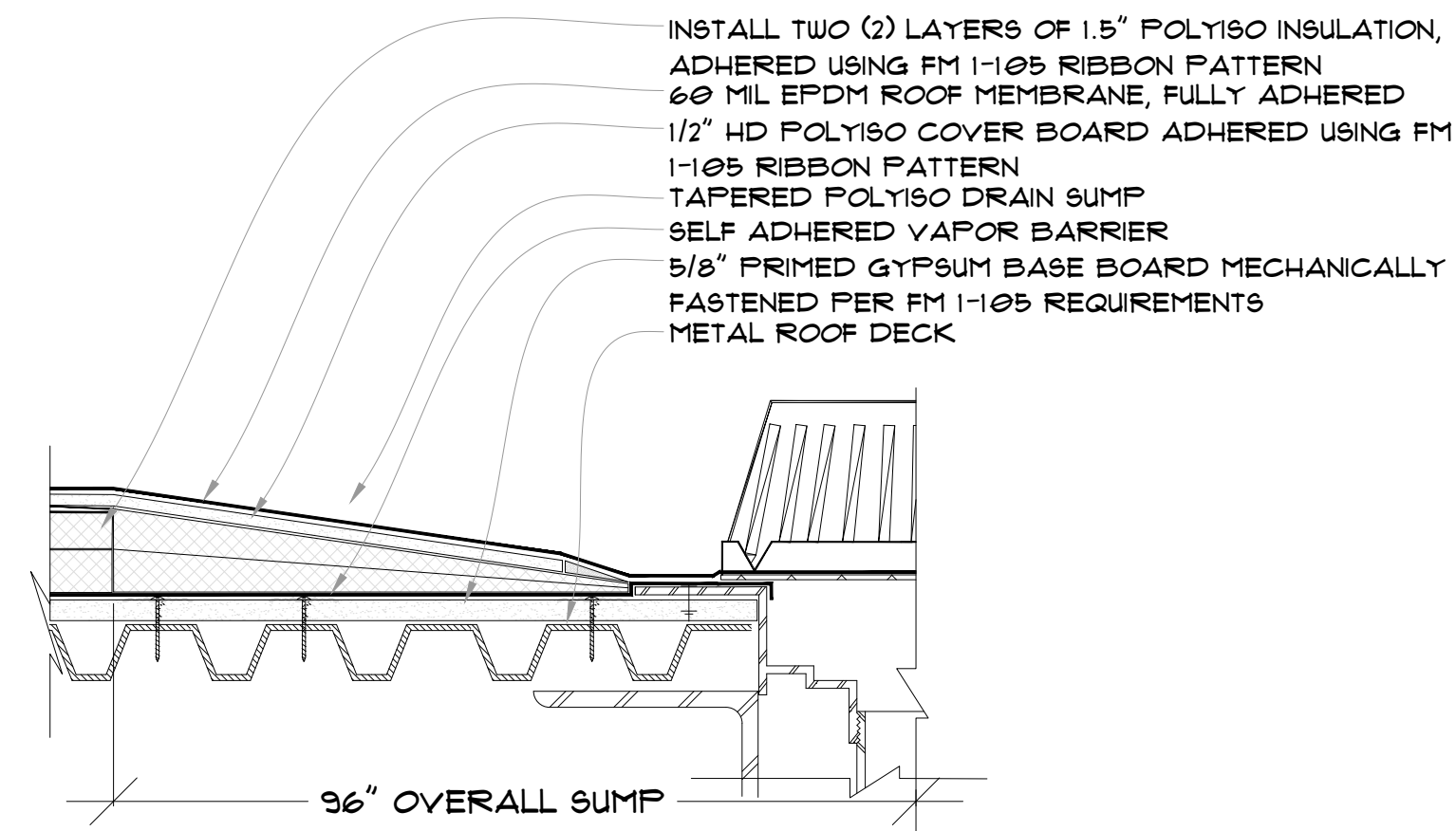
ROOFING LEGEND

①	DEMOLITION KEY NOTE
⊕	ROOF DRAIN
⊖	DOMED VENTILATOR
○	SOIL STACK
▲	CORE EXTRACTION
①	RENOVATION KEY NOTE
⊗	ROOF AREA IDENTIFIER
∪	SCUPPER

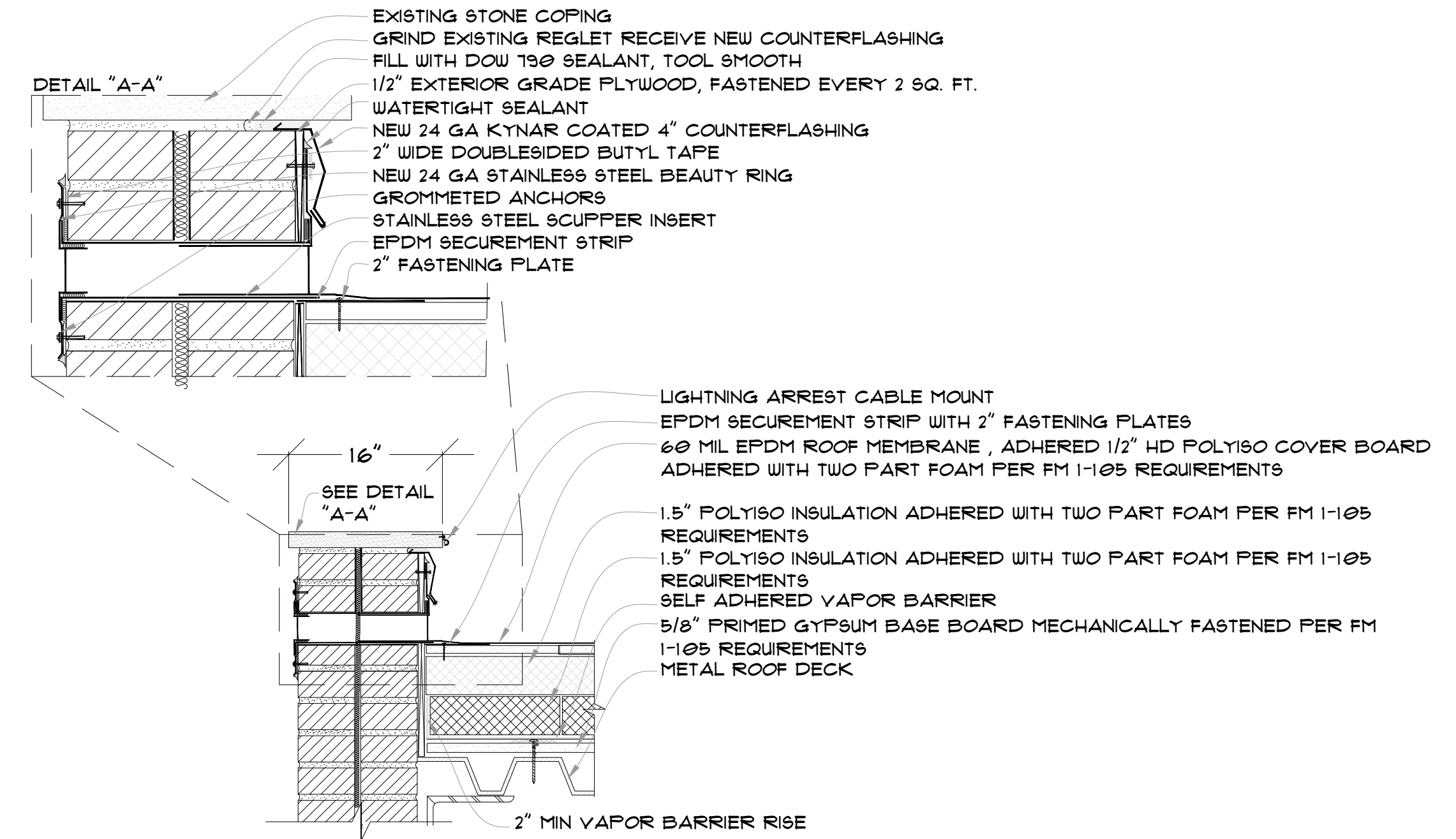




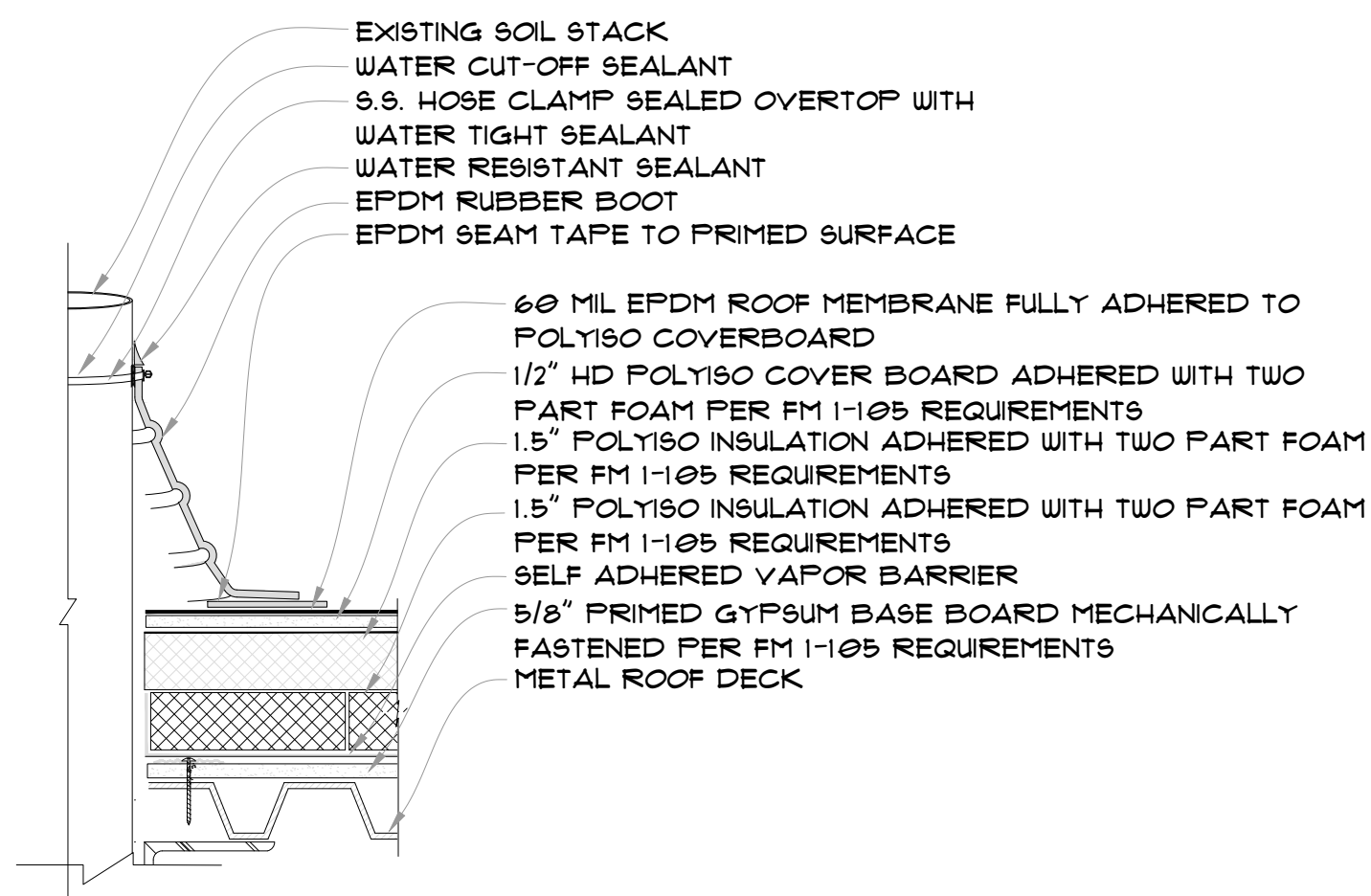
1 FIELD ASSEMBLY - SECTION 3
A202 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



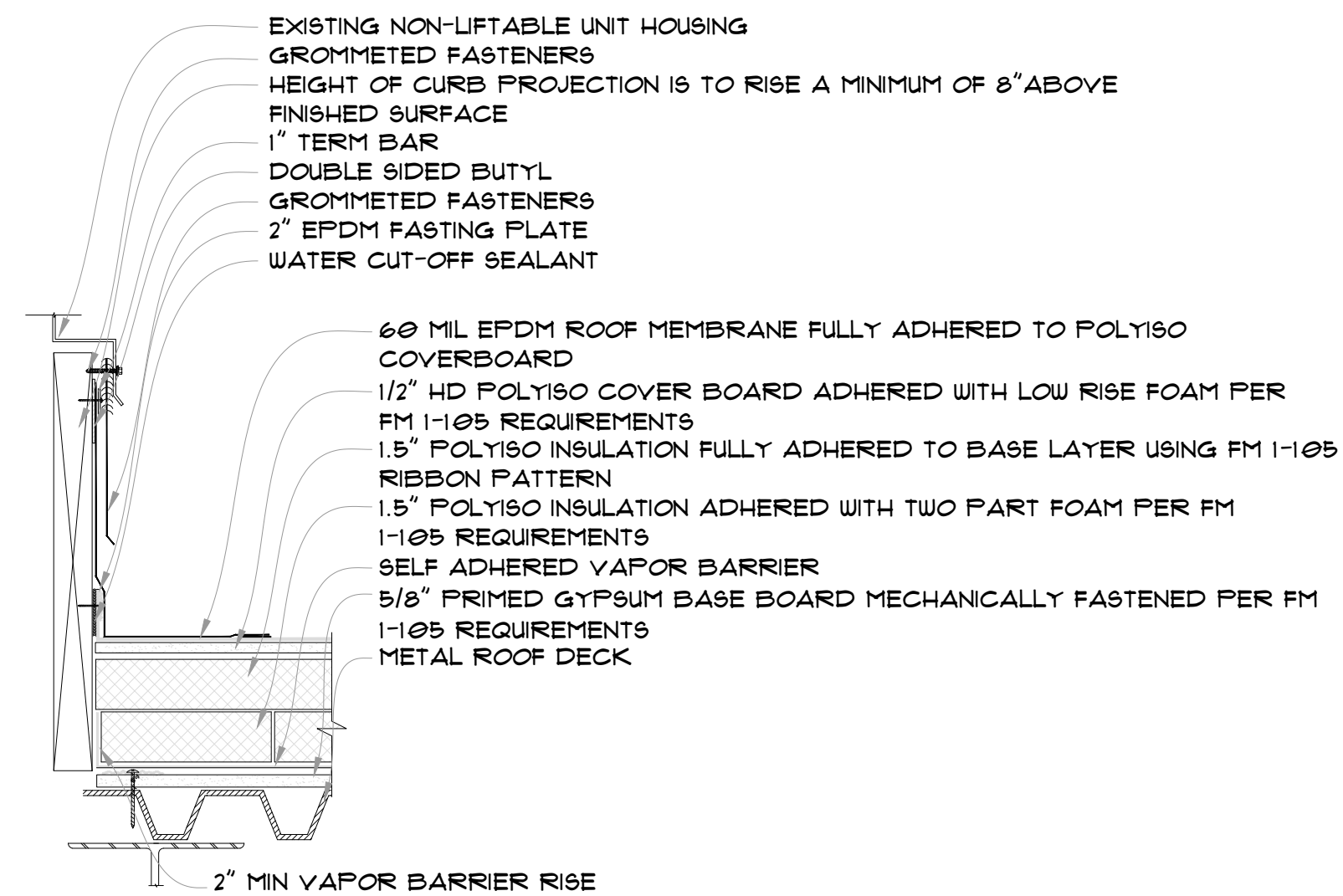
2 DRAIN FLASHING
A202 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



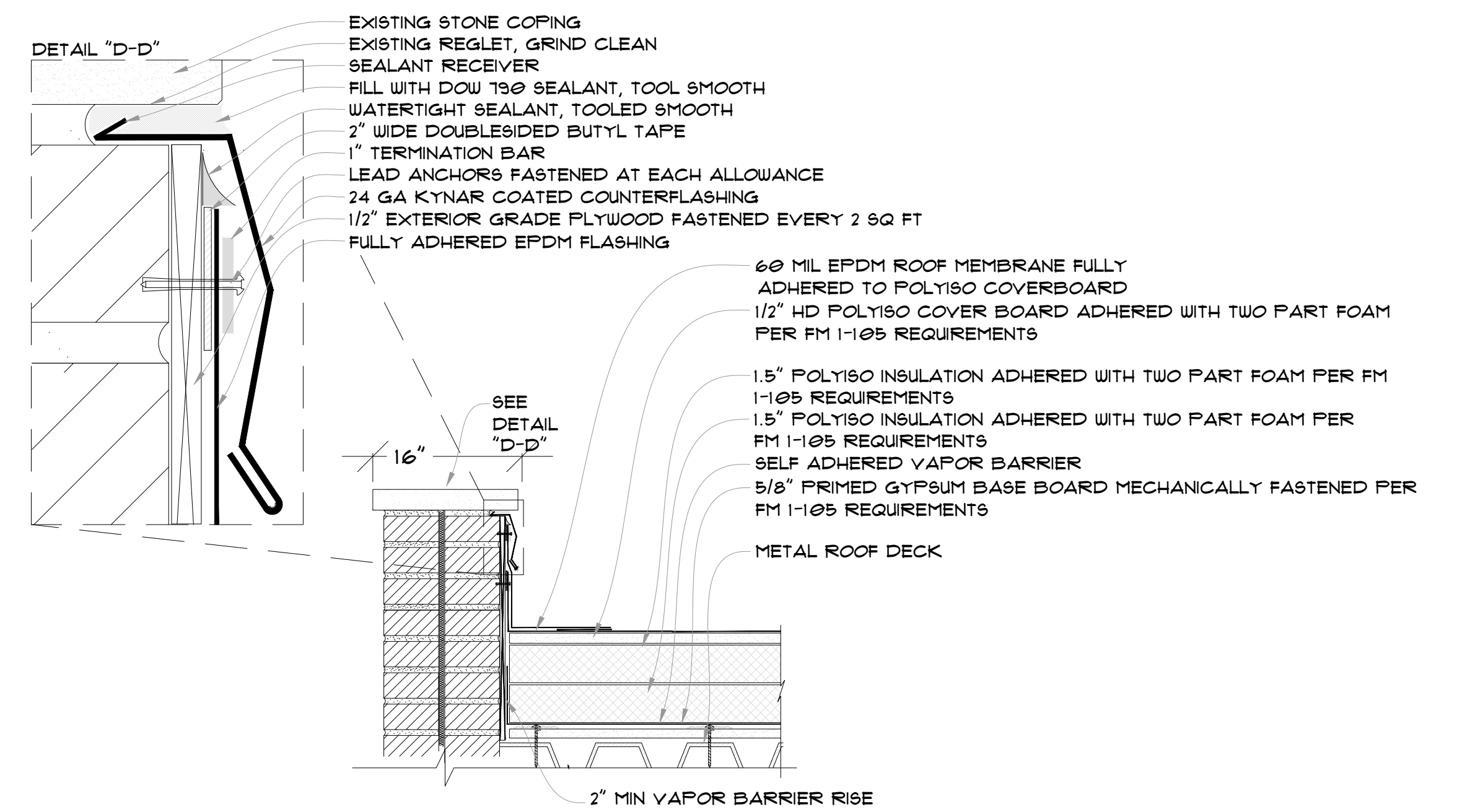
3 OVERFLOW SCUPPER
A202 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



4 SOIL STACK BOOT
A202 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



5 STATIONARY UNIT
A202 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



6 PARAPET - STONE COPING
A202 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



2-14-24
ARCH EXP. D
36" X 24"

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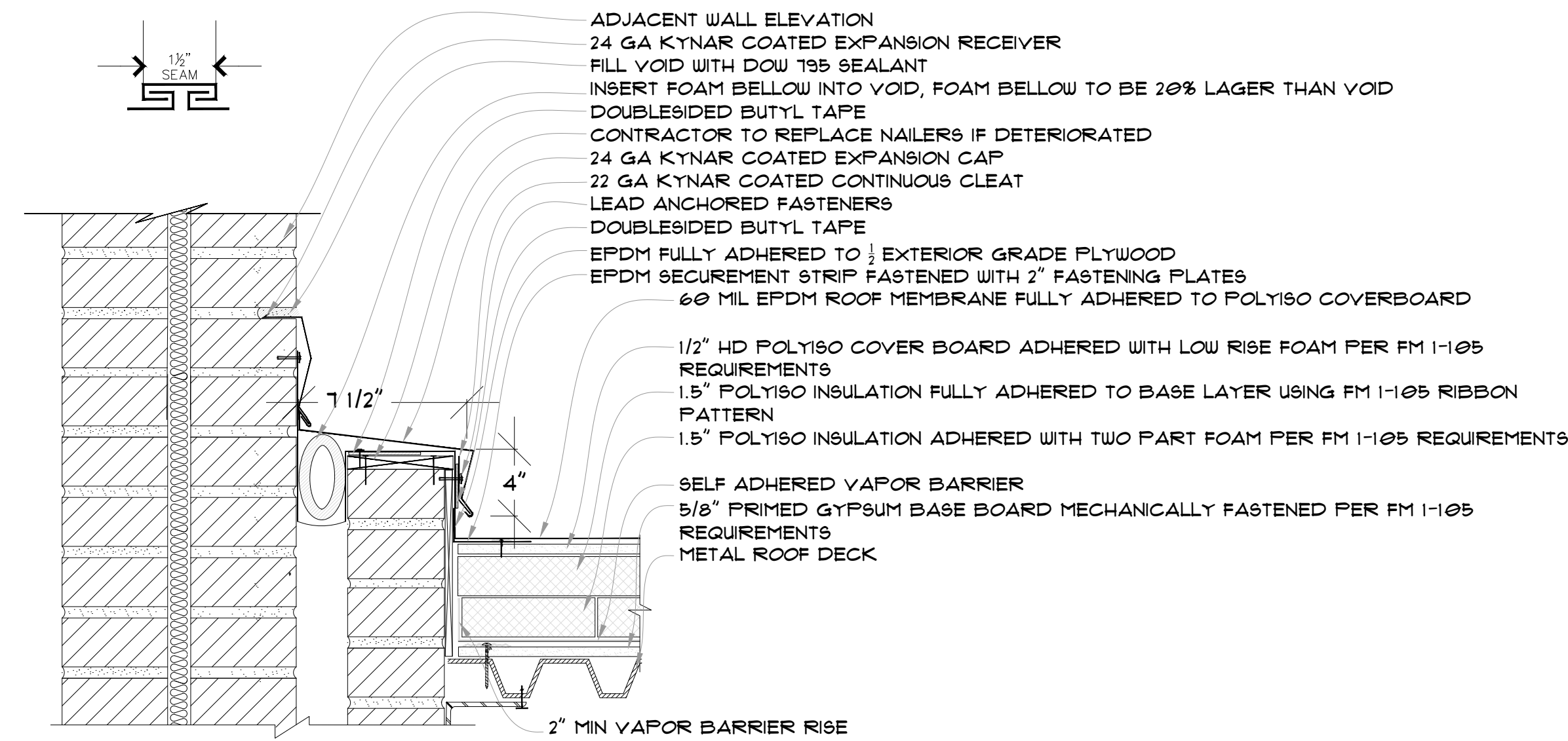
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07/22/24
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CHECKED BY: J.J.G.

RMT ROOFING AND WATERPROOFING CONSULTANTS, INC.
410 SOVEREIGN COURT #18
MANCHESTER, MO 63081
(636) 591-7185

VARIOUS LOCATIONS - ROOF REPLACEMENTS
VETERINARY MEDICINE EAST
COLUMBIA, BOONE COUNTY, MISSOURI
ROOF DETAILS

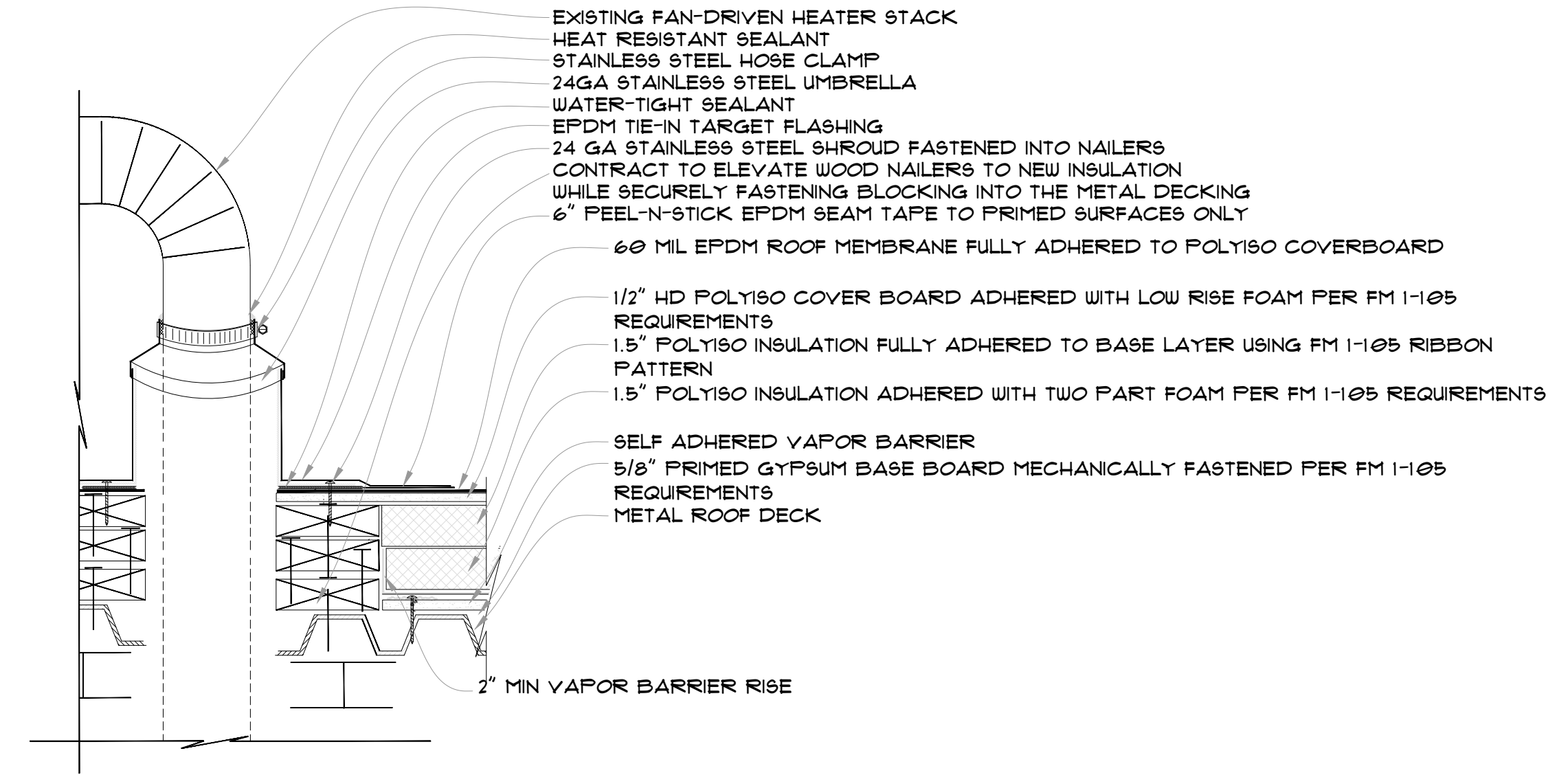
PROJECT NUMBER
CP241331

SHEET
A202



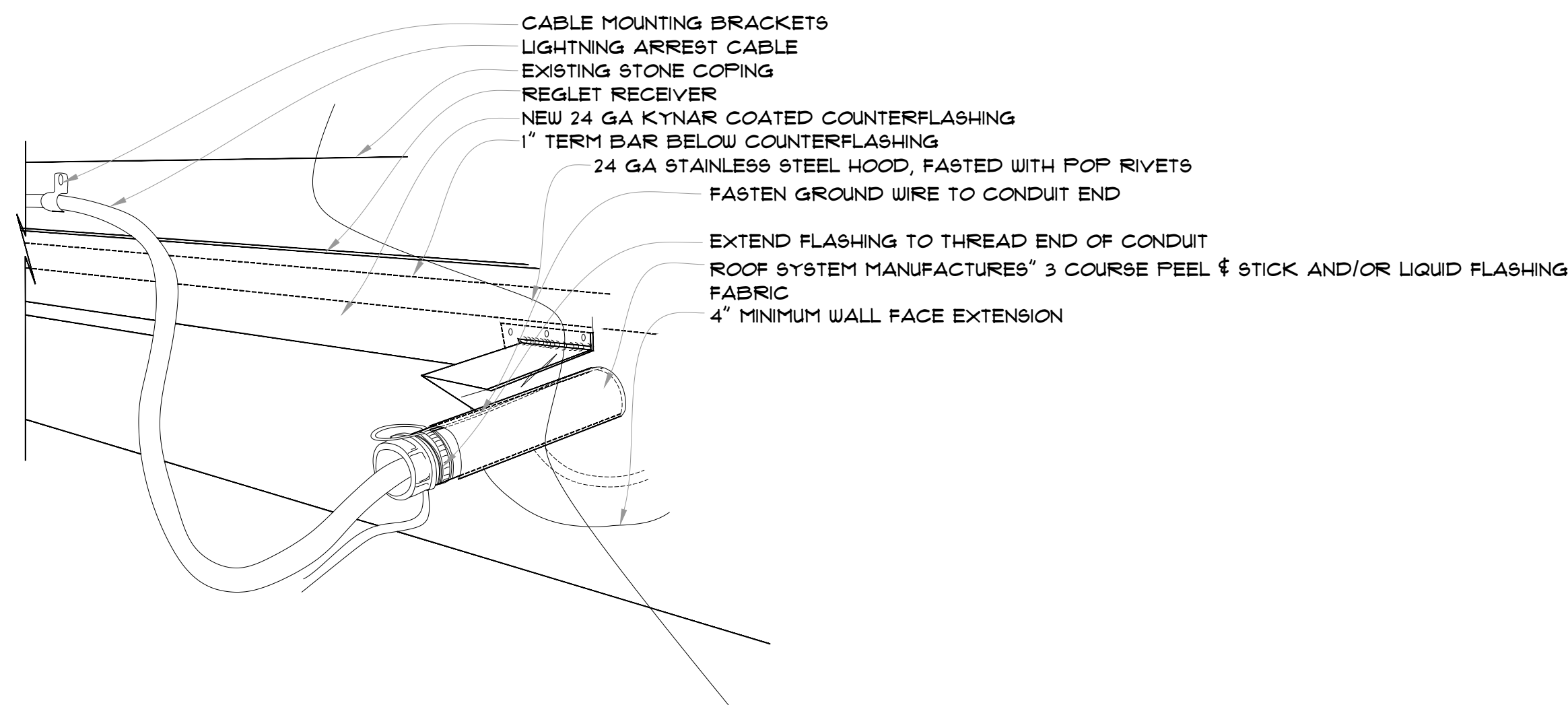
- ADJACENT WALL ELEVATION
- 24 GA KYNAR COATED EXPANSION RECEIVER
- FILL VOID WITH DOW 195 SEALANT
- INSERT FOAM BELLOWS INTO VOID, FOAM BELLOWS TO BE 20% LARGER THAN VOID
- DOUBLESIDED BUTYL TAPE
- CONTRACTOR TO REPLACE NAILERS IF DETERIORATED
- 24 GA KYNAR COATED EXPANSION CAP
- 22 GA KYNAR COATED CONTINUOUS CLEAT
- LEAD ANCHORED FASTENERS
- DOUBLESIDED BUTYL TAPE
- EPDM FULLY ADHERED TO 1/2" EXTERIOR GRADE PLYWOOD
- EPDM SECUREMENT STRIP FASTENED WITH 2" FASTENING PLATES
- 60 MIL EPDM ROOF MEMBRANE FULLY ADHERED TO POLYISO COVERBOARD
- 1/2" HD POLYISO COVER BOARD ADHERED WITH LOW RISE FOAM PER FM 1-105 REQUIREMENTS
- 1.5" POLYISO INSULATION FULLY ADHERED TO BASE LAYER USING FM 1-105 RIBBON PATTERN
- 1.5" POLYISO INSULATION ADHERED WITH TWO PART FOAM PER FM 1-105 REQUIREMENTS
- SELF ADHERED VAPOR BARRIER
- 5/8" PRIMED GYPSUM BASE BOARD MECHANICALLY FASTENED PER FM 1-105 REQUIREMENTS
- METAL ROOF DECK

7 WALL EXPANSION
A203 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



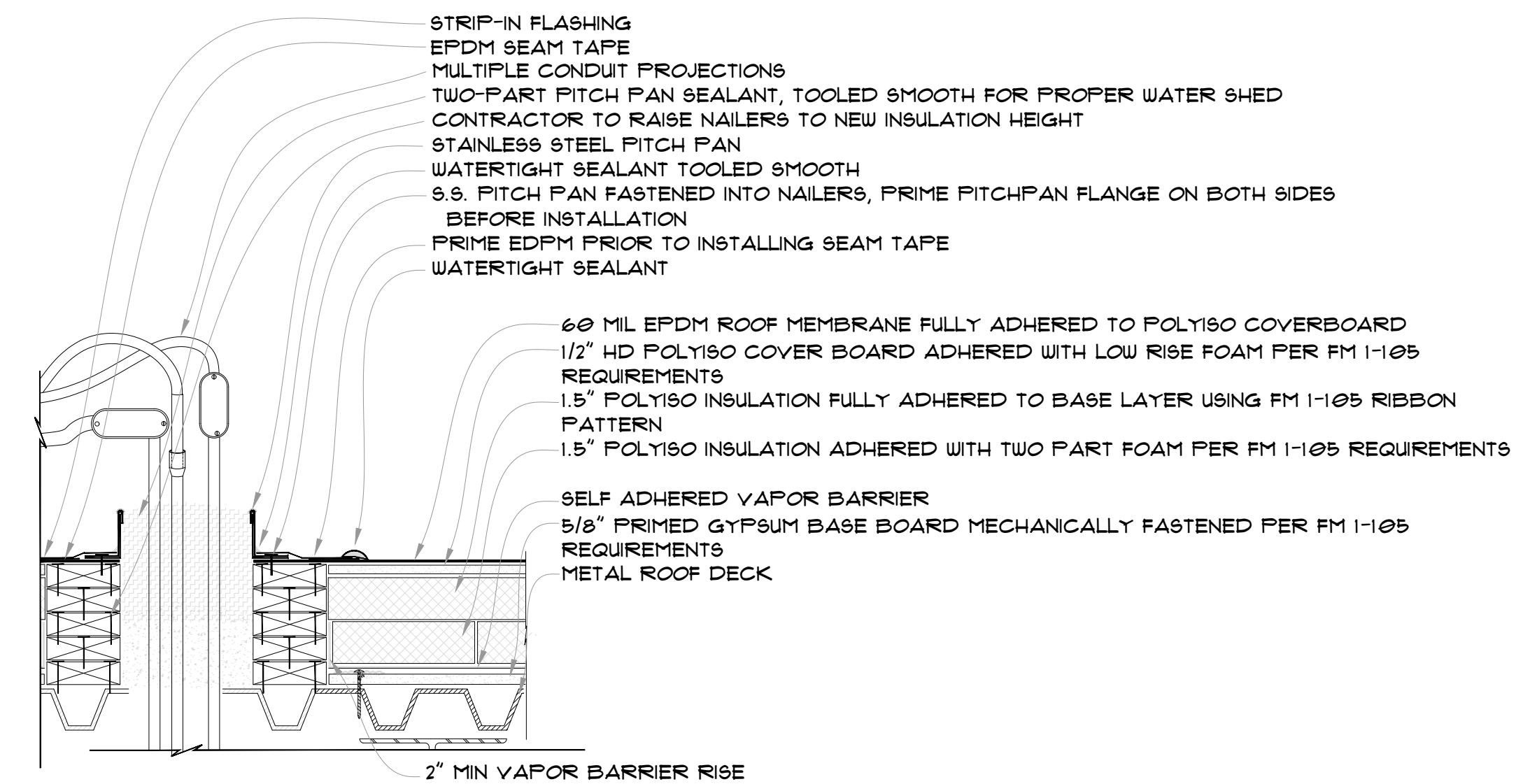
- EXISTING FAN-DRIVEN HEATER STACK
- HEAT RESISTANT SEALANT
- STAINLESS STEEL HOSE CLAMP
- 24GA STAINLESS STEEL UMBRELLA
- WATER-TIGHT SEALANT
- EPDM TIE-IN TARGET FLASHING
- 24 GA STAINLESS STEEL SHROUD FASTENED INTO NAILERS
- CONTRACTOR TO ELEVATE WOOD NAILERS TO NEW INSULATION HEIGHT WHILE SECURELY FASTENING BLOCKING INTO THE METAL DECKING
- 6" PEEL-N-STICK EPDM SEAM TAPE TO PRIMED SURFACES ONLY
- 60 MIL EPDM ROOF MEMBRANE FULLY ADHERED TO POLYISO COVERBOARD
- 1/2" HD POLYISO COVER BOARD ADHERED WITH LOW RISE FOAM PER FM 1-105 REQUIREMENTS
- 1.5" POLYISO INSULATION FULLY ADHERED TO BASE LAYER USING FM 1-105 RIBBON PATTERN
- 1.5" POLYISO INSULATION ADHERED WITH TWO PART FOAM PER FM 1-105 REQUIREMENTS
- SELF ADHERED VAPOR BARRIER
- 5/8" PRIMED GYPSUM BASE BOARD MECHANICALLY FASTENED PER FM 1-105 REQUIREMENTS
- METAL ROOF DECK

8 GOOSE NECK HOT STACK
A203 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



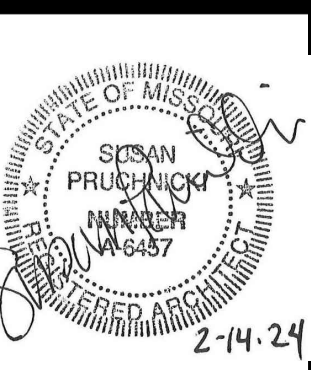
- CABLE MOUNTING BRACKETS
- LIGHTNING ARREST CABLE
- EXISTING STONE COPING
- REGLET RECEIVER
- NEW 24 GA KYNAR COATED COUNTERFLASHING
- 1" TERM BAR BELOW COUNTERFLASHING
- 24 GA STAINLESS STEEL HOOD, FASTED WITH POP RIVETS
- FASTEN GROUND WIRE TO CONDUIT END
- EXTEND FLASHING TO THREAD END OF CONDUIT
- ROOF SYSTEM MANUFACTURERS' 3 COURSE PEEL & STICK AND/OR LIQUID FLASHING FABRIC
- 4" MINIMUM WALL FACE EXTENSION

9 LIGHTNING CABLE PARAPET ENTRY
A203 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



- STRIP-IN FLASHING
- EPDM SEAM TAPE
- MULTIPLE CONDUIT PROJECTIONS
- TWO-PART PITCH PAN SEALANT, TOOLED SMOOTH FOR PROPER WATER SHED
- CONTRACTOR TO RAISE NAILERS TO NEW INSULATION HEIGHT
- STAINLESS STEEL PITCH PAN
- WATERTIGHT SEALANT TOOLED SMOOTH
- S.S. PITCH PAN FASTENED INTO NAILERS, PRIME PITCHPAN FLANGE ON BOTH SIDES BEFORE INSTALLATION
- PRIME EPDM PRIOR TO INSTALLING SEAM TAPE
- WATERTIGHT SEALANT
- 60 MIL EPDM ROOF MEMBRANE FULLY ADHERED TO POLYISO COVERBOARD
- 1/2" HD POLYISO COVER BOARD ADHERED WITH LOW RISE FOAM PER FM 1-105 REQUIREMENTS
- 1.5" POLYISO INSULATION FULLY ADHERED TO BASE LAYER USING FM 1-105 RIBBON PATTERN
- 1.5" POLYISO INSULATION ADHERED WITH TWO PART FOAM PER FM 1-105 REQUIREMENTS
- SELF ADHERED VAPOR BARRIER
- 5/8" PRIMED GYPSUM BASE BOARD MECHANICALLY FASTENED PER FM 1-105 REQUIREMENTS
- METAL ROOF DECK

10 CONDUIT PITCH PAN
A203 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



ARCH EXP. D
36" X 24"

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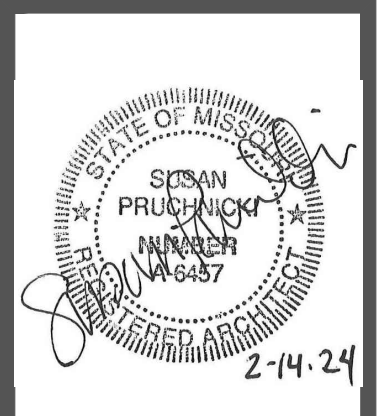
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07/22/24
DRAWN BY: J.J.G.
CHECKED BY: J.J.G.

RMT ROOFING AND WATERPROOFING CONSULTANTS, INC.
410 SOVEREIGN COURT #18
MANCHESTER, MO 63301
(636)-731-2185

VARIOUS LOCATIONS - ROOF REPLACEMENTS
VETERINARY MEDICINE EAST
COLUMBIA, BOONE COUNTY, MISSOURI
ROOF DETAILS

PROJECT NUMBER
CF241331

SHEET
A203



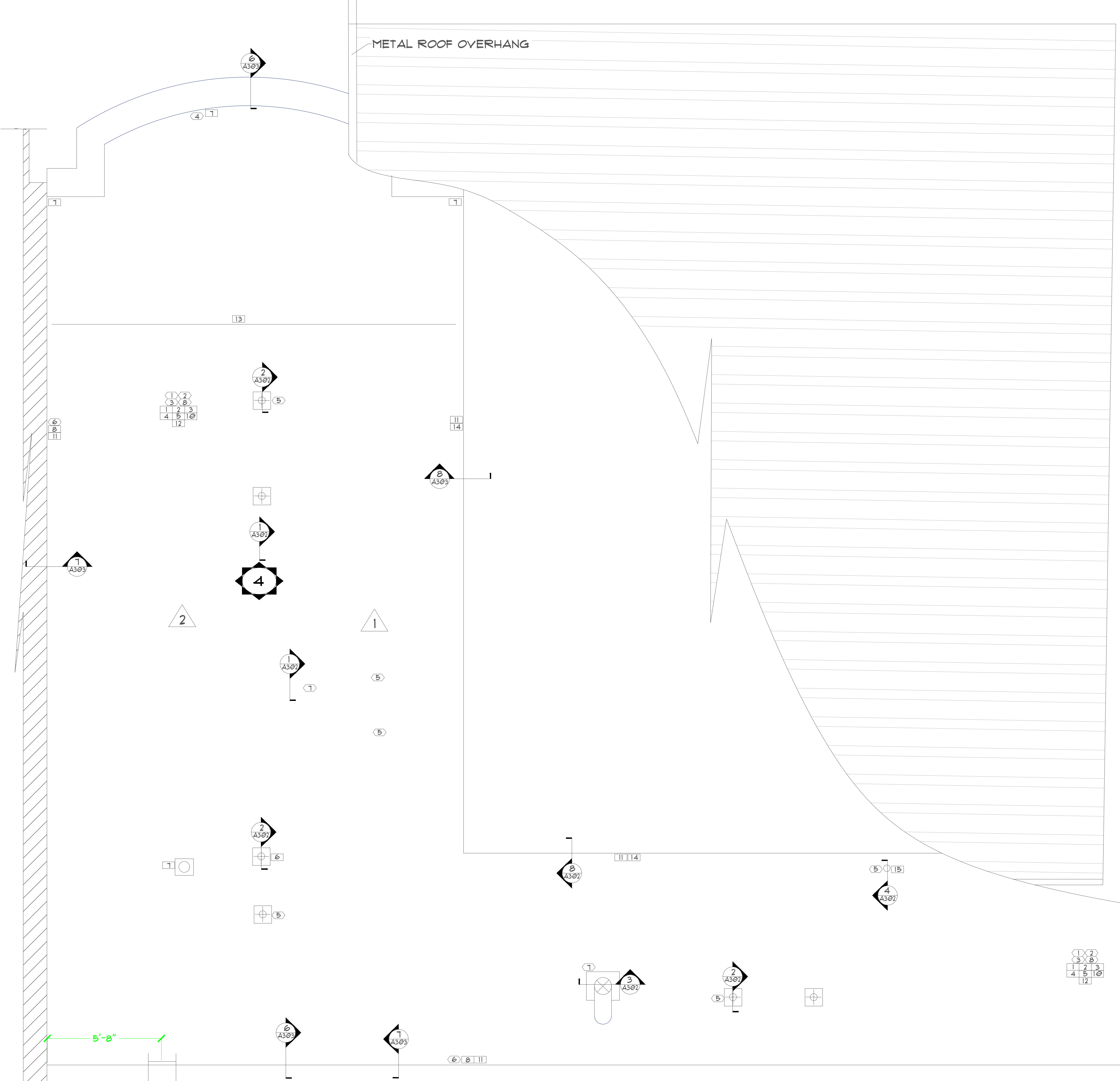
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 410 SOVEREIGN COURT #19
 MANCHESTER, MO 65011
 (620) 231-2185

VARIOUS LOCATIONS - ROOF REPLACEMENTS
VETERINARY MEDICINE EAST
COLUMBIA, BOONE COUNTY, MISSOURI
ROOF PLAN

PROJECT NUMBER
CP241331
 SHEET
A301



EXISTING ROOF CONSTRUCTION:

- △ METAL DECK, 1" PERLITE, A9P VB, ISO, 1/2" FB, 4 PLY BUR (4.5" TOTAL)
- △ METAL DECK, 1" PERLITE, A9P VB, ISO, 1/2" FB, 4 PLY BUR (1" TOTAL)

DEMOLITION NOTES:

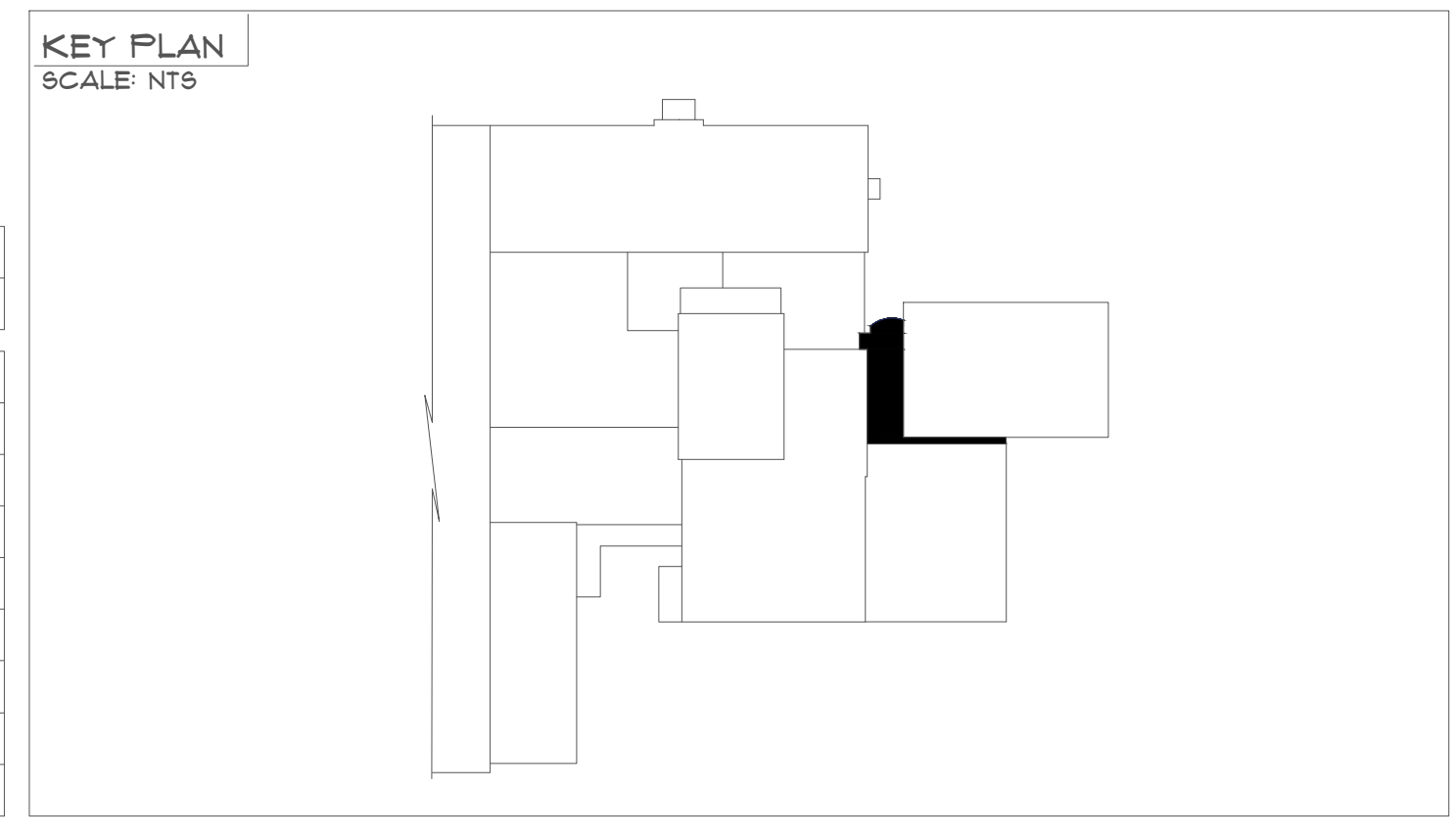
1. CONTRACTOR RESPONSIBLE TO RECORD CONDITIONS BELOW OF EACH DAY'S WORK AREA PRIOR TO BEGINNING DEMOLITION
2. CONTRACTOR TO ONLY TEAR-OFF SECTIONS OF MATERIAL WHICH CAN BE SEALED WATERTIGHT DAILY REGARDLESS OF DRY, OVERNIGHT WEATHER FORECASTS
3. REMOVE GRAVEL FROM ROOF SURFACE FOLLOWED BY PROJECTION FLASHING.
4. REMOVE ALL ASSOCIATED METAL FLASHING DETAILS FROM WALL AND PARAPET DETAIL
5. ALL EXISTING ROOF DRAINS TO REMAIN REMOVE STRAINER AND CLAMPING RING FOR REINSTALLATION, REPLACE ANY MISSING, DETERIORATED, DEFECTIVE, OR BROKEN DRAIN COMPONENTS
6. REMOVE COUNTER FLASHING FROM REGLET AND GRIND REGLET FOR REUSE
7. REMOVE EXISTING CURB FLASHING REMOVE ALL PROJECTIONS AND SLEEPERS
8. REMOVE EXISTING ROOFING MATERIAL DOWN TO THE STRUCTURAL DECK SURFACE

RENOVATION NOTES:

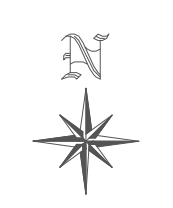
1. CONTRACTOR RESPONSIBLE TO FIELD VERIFY ALL MEASUREMENTS PRIOR TO MATERIAL INSTALLATION
2. SWEEP DECK FLUTES FREE DEBRIS AND PRIME ROOF DECK WITH MANUFACTURE APPROVED PRIMER
3. INSTALL SELF ADHERED VAPOR BARRIER TO THE METAL DECKING SURFACE
4. INSTALL 1/4"-12" TAPERED POLYISO INSULATION ADHERED WITH TWO PART FOAM PER FM 1-105 REQUIREMENT
5. INSTALL 1/2" - 12" TAPERED POLYISO CRICKETS AT PROJECTION UP SLOPE AND POTENTIAL PONDING AREAS
6. INSTALL 4' X 8' X 1/2" EXTERIOR GRADE PLY WOOD TO WALL SURFACES TO RECEIVE EPDM FULLY ADHERED FLASHING.
7. INSTALL 1/2" - 12" TAPERED POLYISO CRICKET AND DRAIN SADDLES USING LOW-RISE FOAM IN COMPLIANCE WITH FM 1-105 WIND UPLIFT REQUIREMENTS
8. INSTALL NEW 24 GA STAINLESS STEEL COUNTER FLASHING INTO CLEAN, EXISTING REGLET RECEIVER WITH DOW 790 SEALANT ATOP CAULK TRAY
9. INSTALL NEW 24 STAINLESS STEEL COUNTER FLASHING INTO CLEAN, EXISTING REGLET RECEIVER WITH DOW 790 SEALANT ATOP CAULK TRAY
10. INSTALL ONE (1) LAYER OF 60 MIL EPDM MEMBRANE WITH 3" OVERLAPPING SEAMS WITH EPDM SEAM TAPE, FULLY ADHERE MEMBRANE FULLY ADHERED WITH LOW-VOC MEMBRANE ADHESIVE
11. INSTALL FULLY-ADHERED EPDM FLASHING OVER 2" WIDE BUTYL TAPE, TERMINATE WITH A 1" ALUMINUM BAR FASTENED INTO EACH GIVEN ALLOWANCE
12. INSTALL WALK PADS AT SERVICEABLE EQUIPMENT, LADDER, AND DOORS ACCESS POINTS
13. INSTALL A YELLOW WARNING LINE 10' INTO PERIMETER
14. RE-CAULK WINDOW SILL FLASHING
15. INSTALL EPDM SOL STACK BOOT.

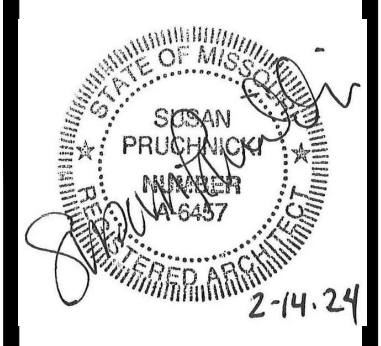
AREA LEGEND	⊗ 1,305 SQ. FT.
ROOFING LEGEND	
①	DEMOLITION KEY NOTE
⊕	ROOF DRAIN
⊙	DOMED VENTILATOR
○	SOL STACK
△	CORE EXTRACTION
⊥	RENOVATION KEY NOTE
⊗	ROOF AREA IDENTIFIER
⌋	SCUPPER

KEY NOTE LEGEND	
⊗	SECTION ID
①	DEMOLITION NOTE
2	RENOVATION NOTE
⊕	DETAIL SECTION CUT



1 ROOF PLAN - SECT. 4 DEMOLITION AND RENOVATION PLANS
 A301 SCALE: 3/8" = 1' - 0" - ARCH D





ARCH EXP. D
36" X 24"

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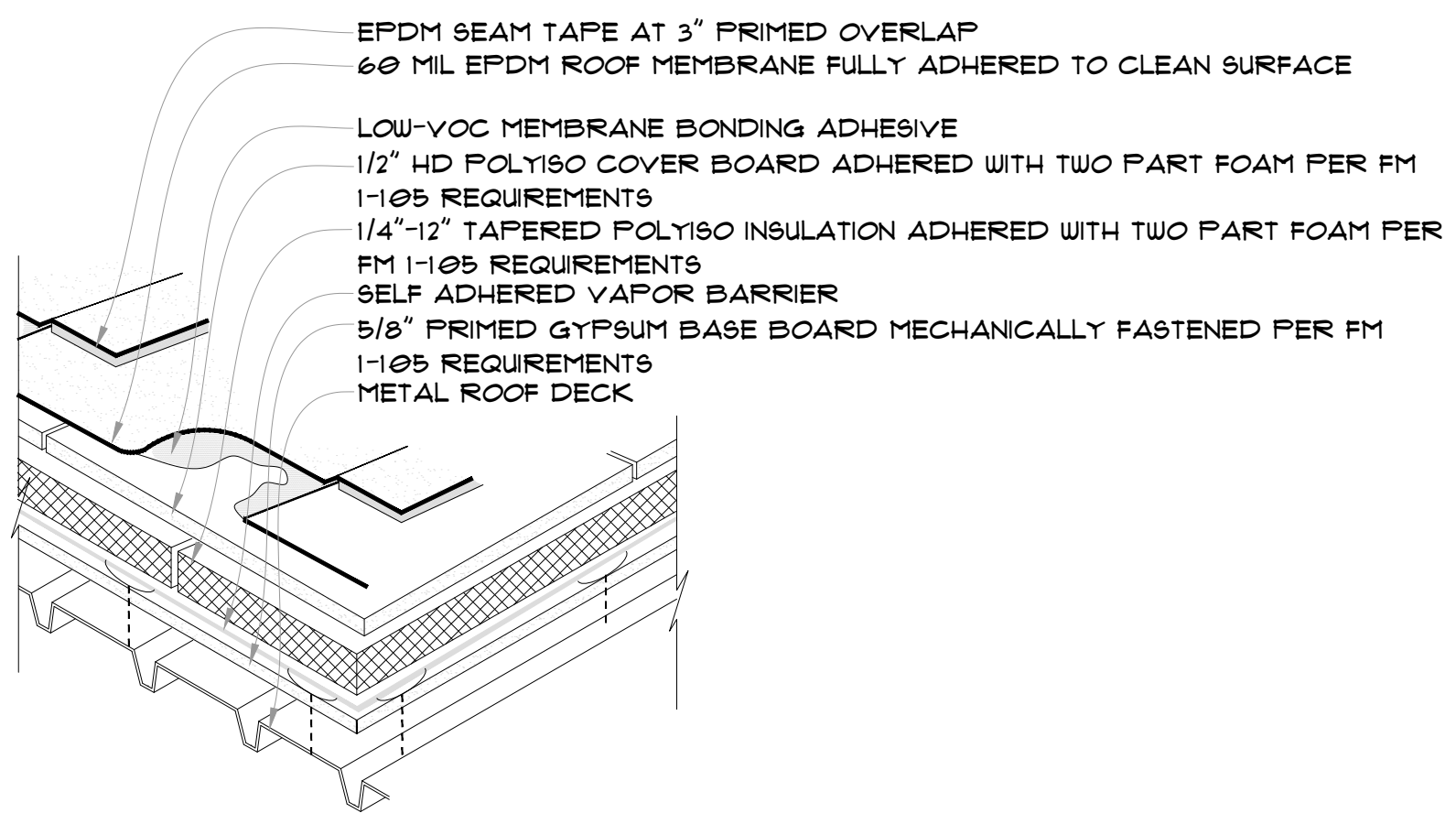
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419 SOVEREIGN COURT #18
MANCHESTER, MO 63011
(636) 331-7285

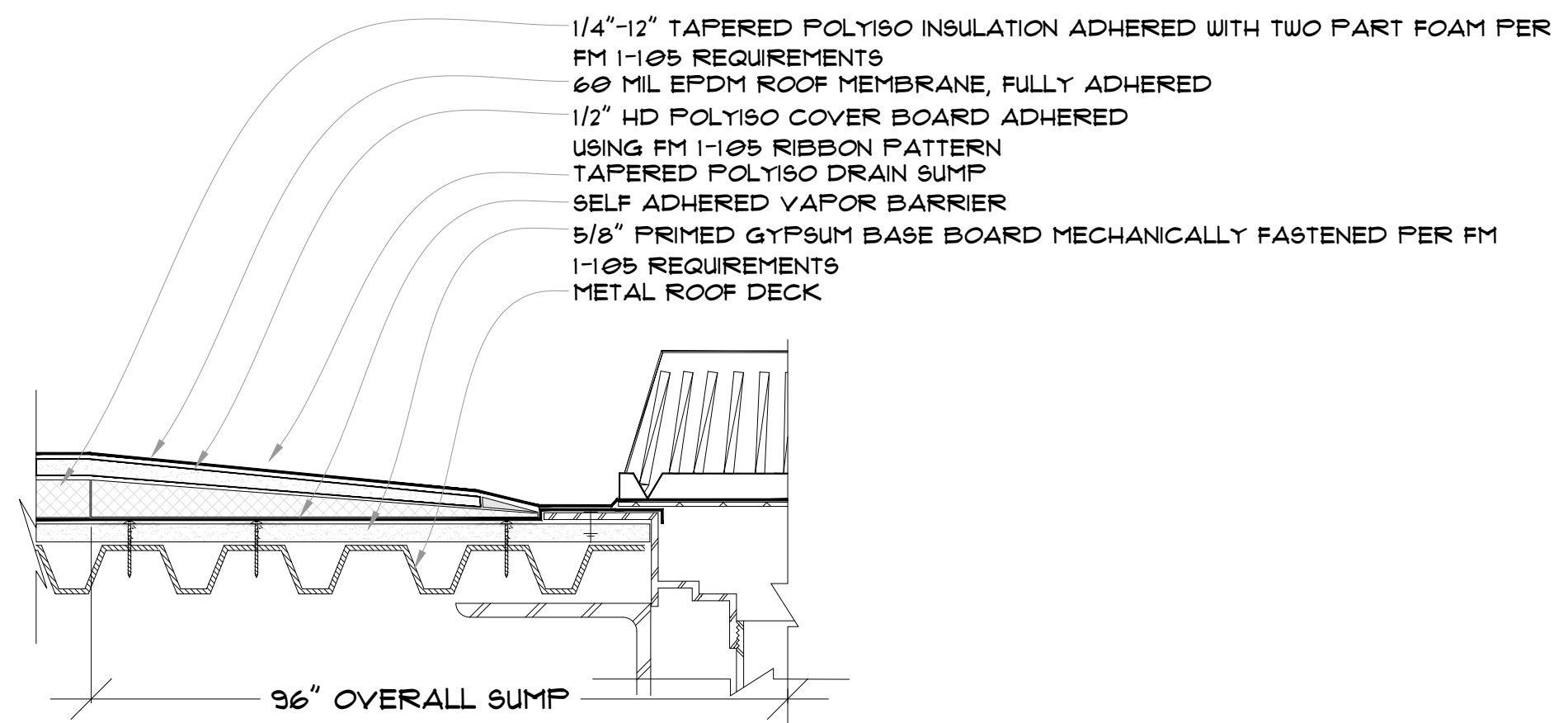
VARIOUS LOCATIONS - ROOF REPLACEMENTS
VETERINARY MEDICINE EAST
COLUMBIA, BOONE COUNTY, MISSOURI
ROOF DETAILS

PROJECT NUMBER
CP241331

SHEET
A302

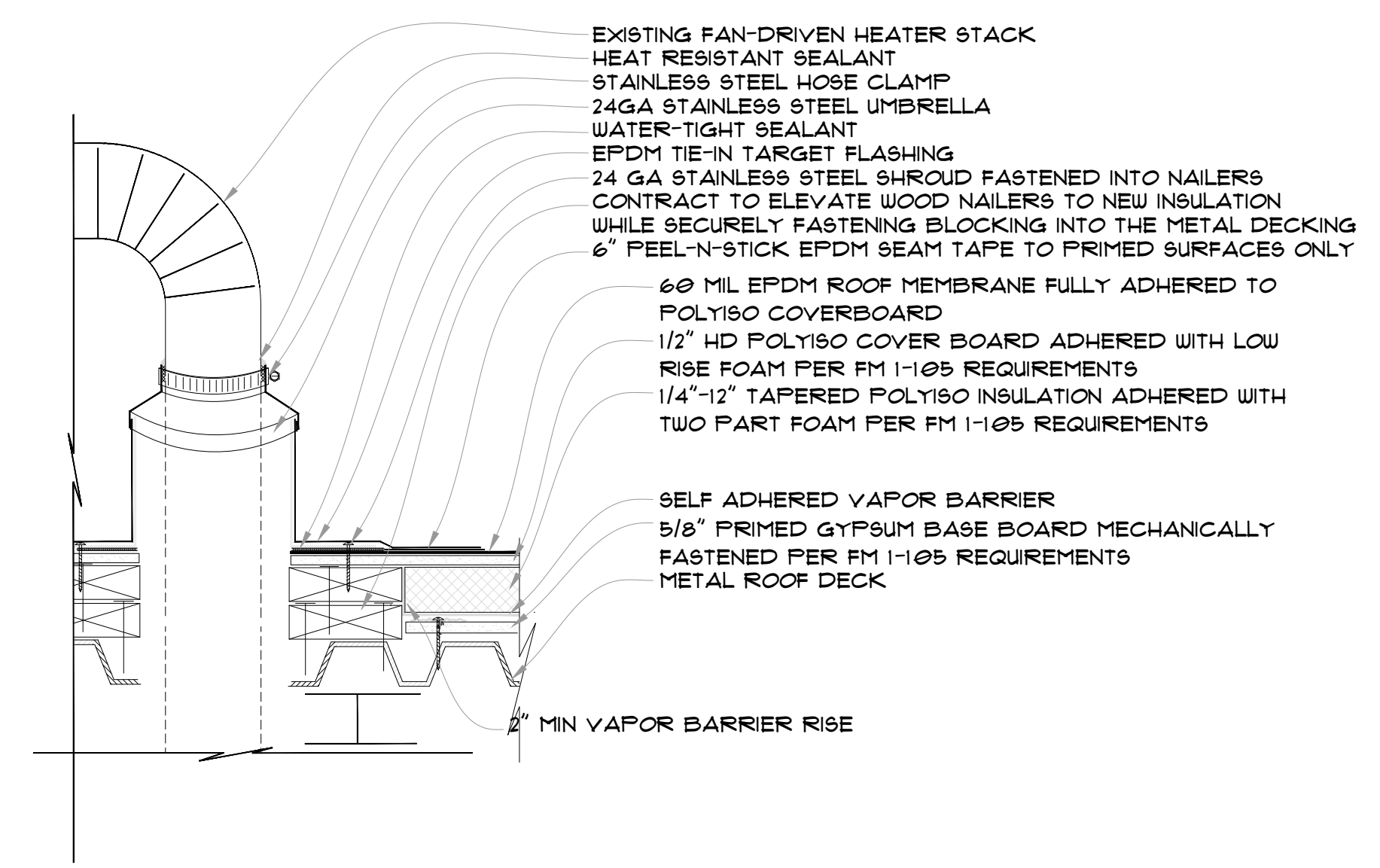


1 FIELD ASSEMBLY - SECTION 4
A302 SCALE: 1" = 1 1/2" - 0" - ARCH EXP D

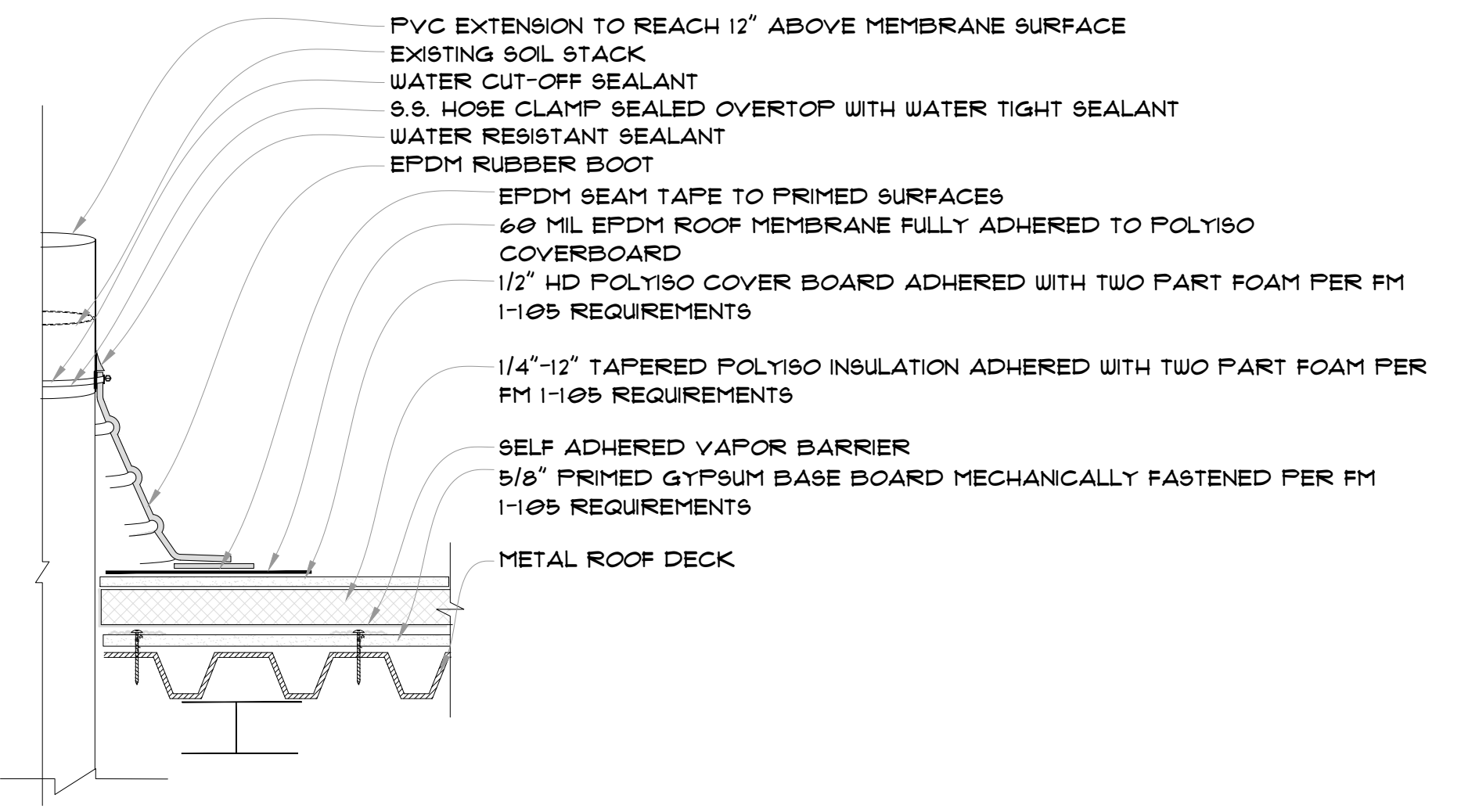


NOTES:
- REPLACE STRAINER IF MISSING, BROKEN, OR MADE OF PLASTIC
- REPLACE DRAIN FASTENING HARDWARE IF BROKEN OR MISSING

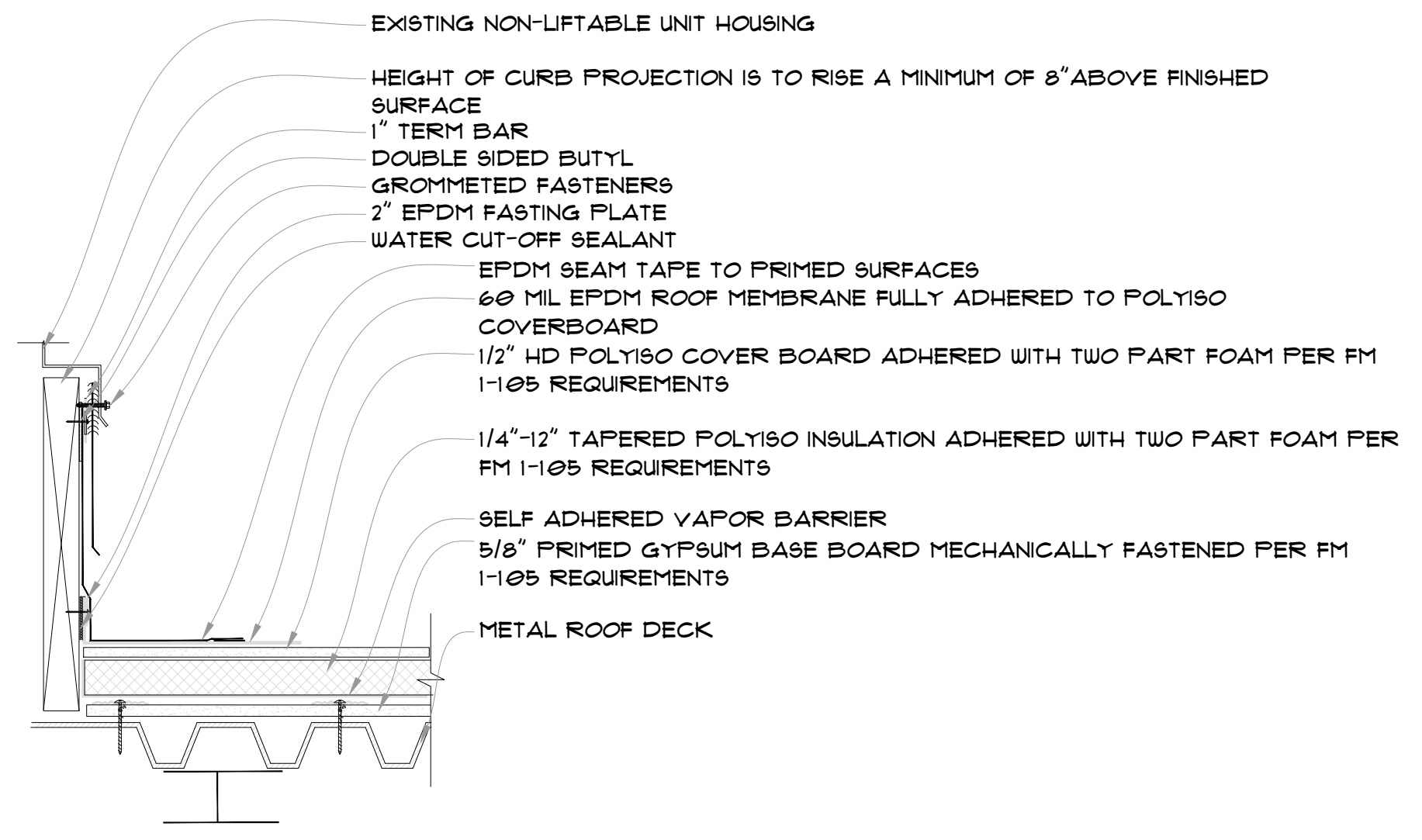
2 DRAIN FLASHING
A302 SCALE: 1" = 1 1/2" - 0" - ARCH EXP D



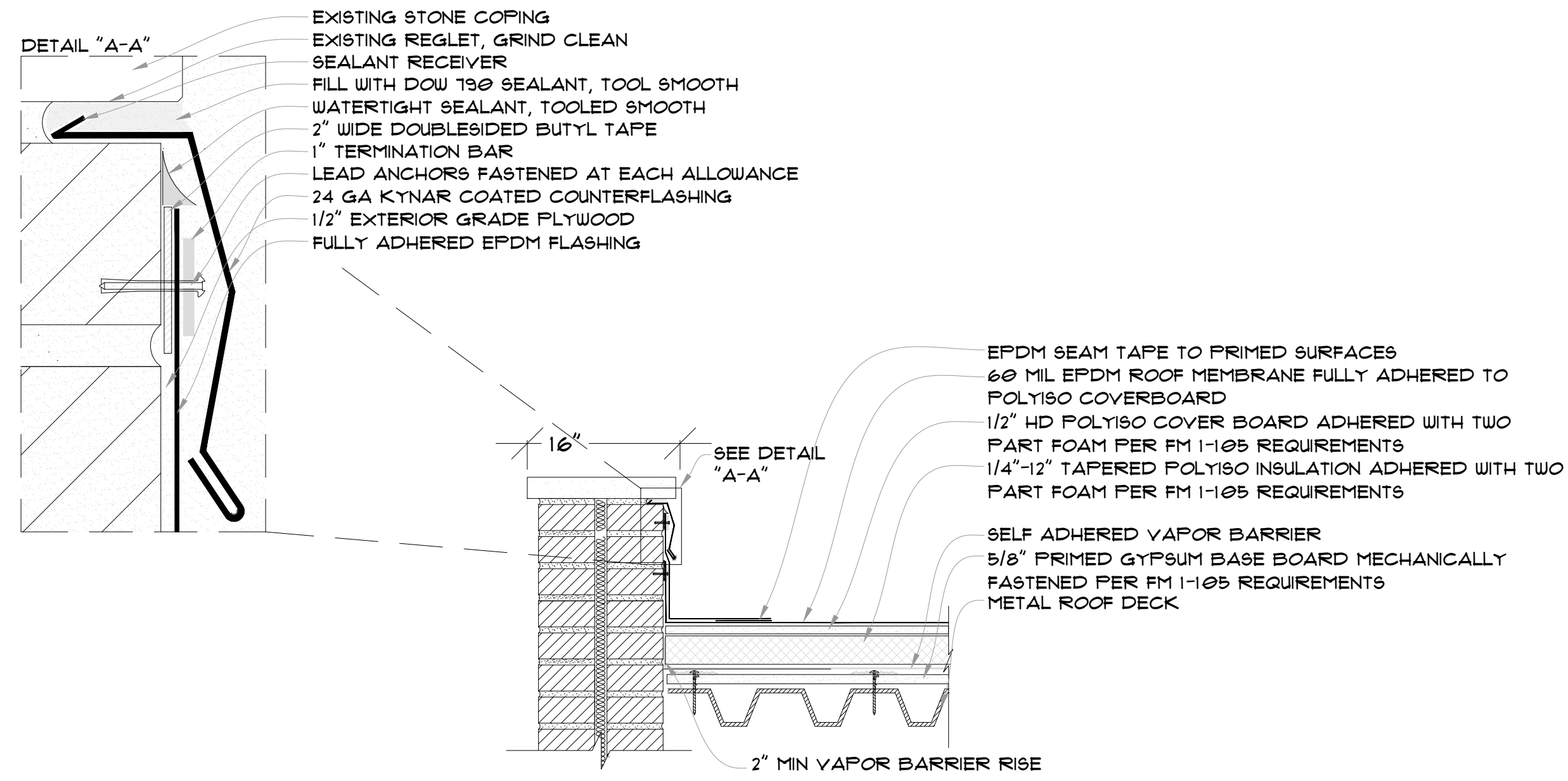
3 GOOSE NECK HOT STACK
A302 SCALE: 1" = 1 1/2" - 0" - ARCH EXP D



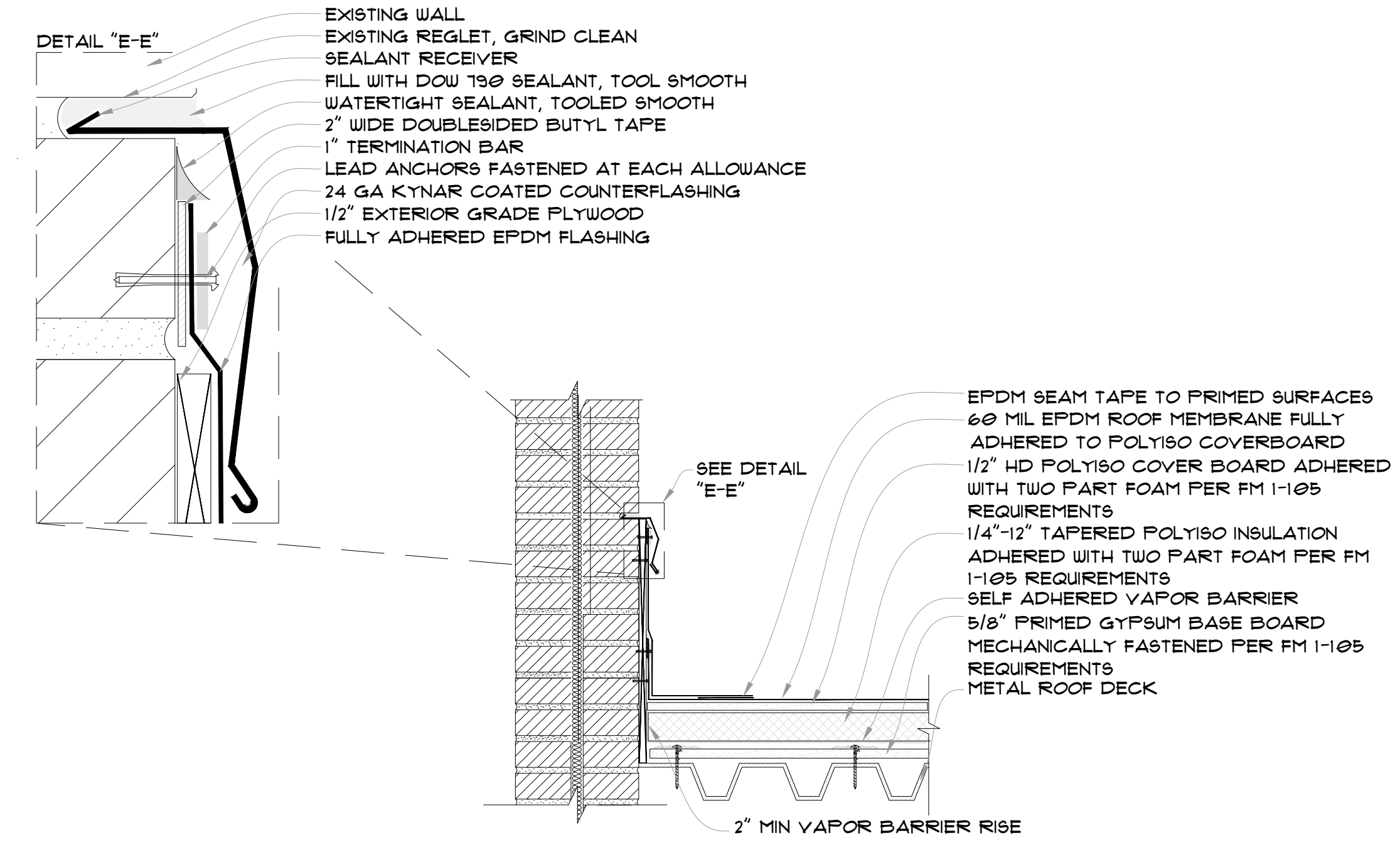
4 EPDM SOL STACK BOOT
A302 SCALE: 1" = 1 1/2" - 0" - ARCH EXP D



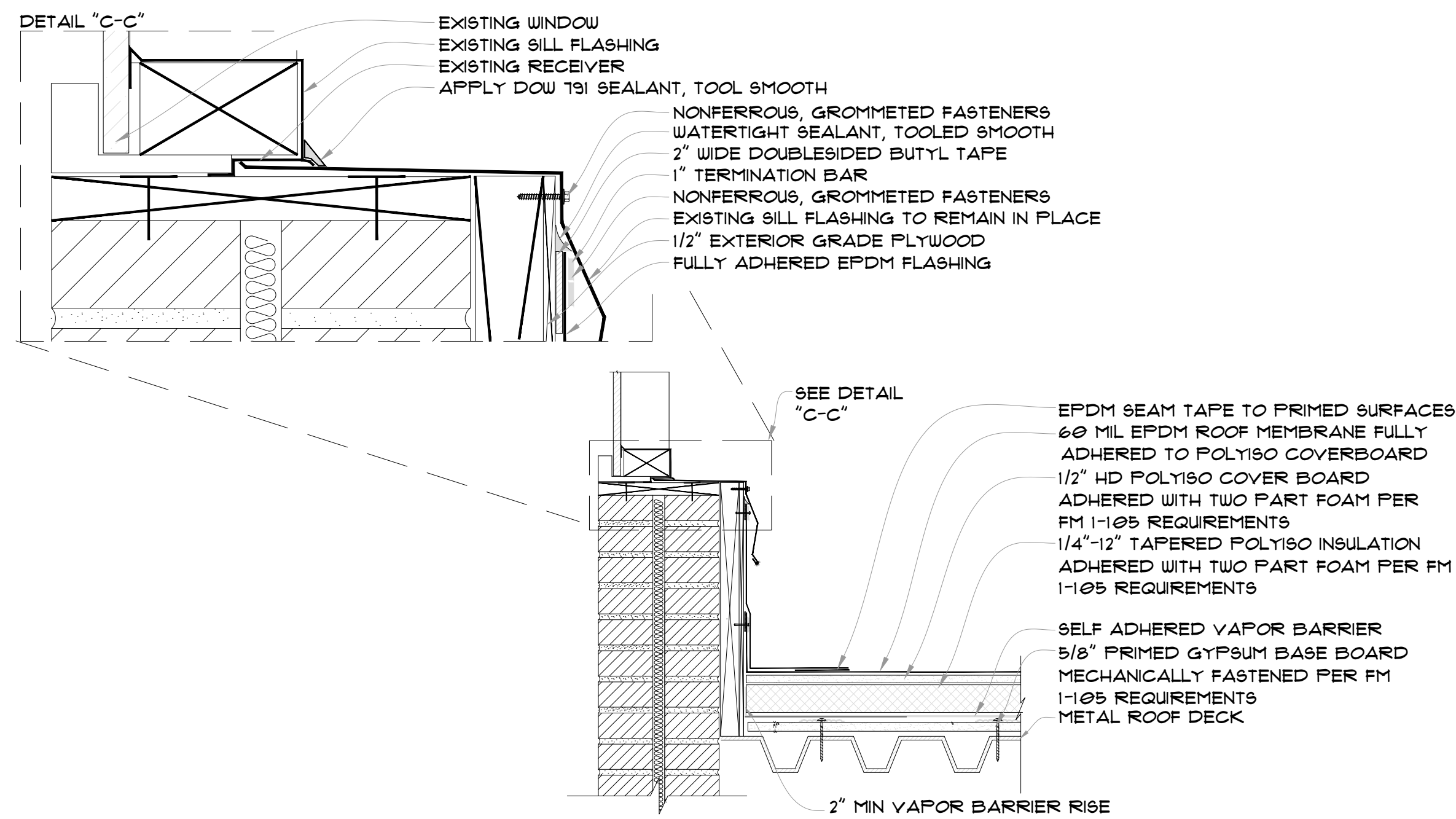
5 SLIP-IN COUNTERFLASHING
A302 SCALE: 1" = 1 1/2" - 0" - ARCH EXP D



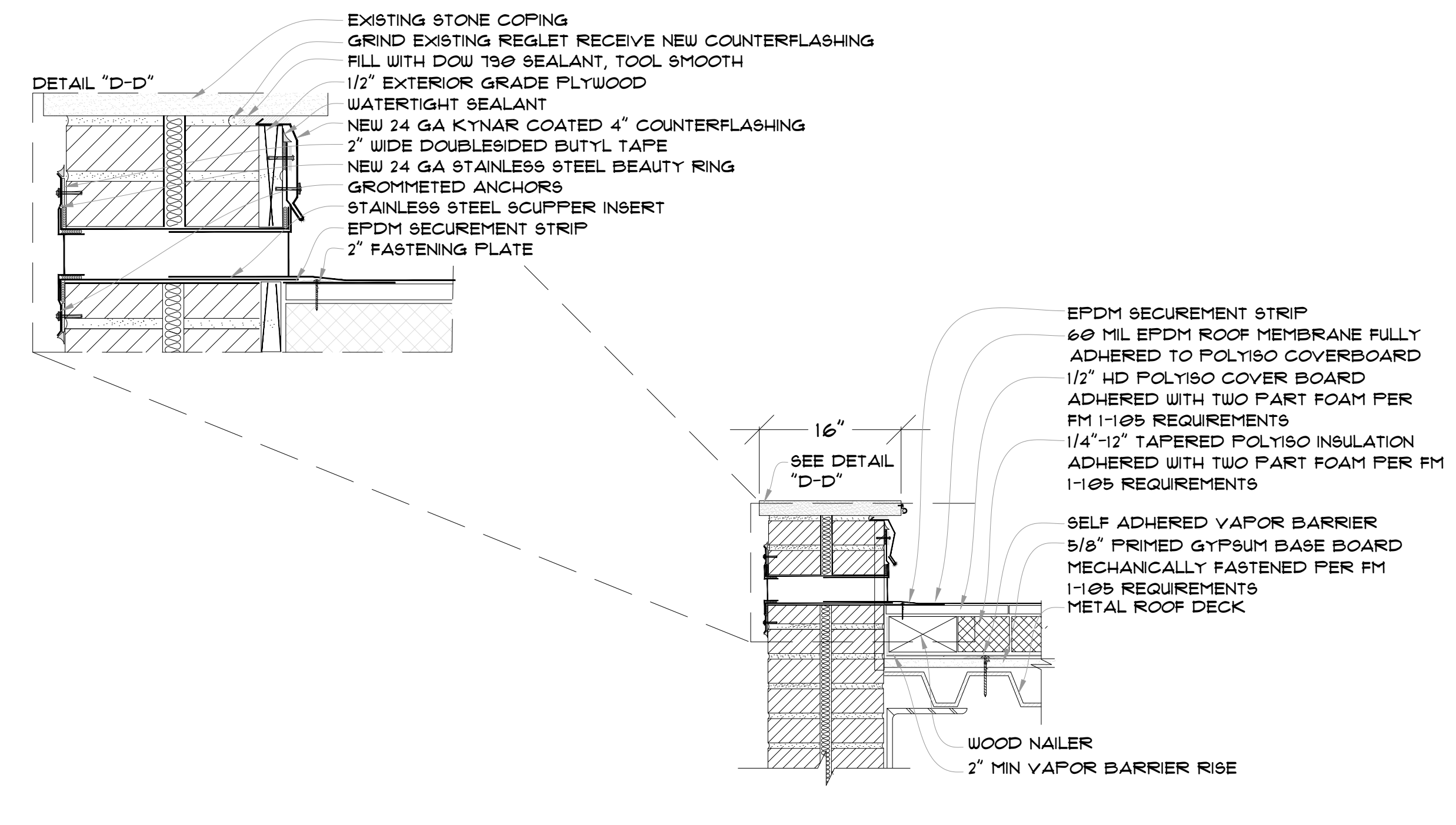
6 PARAPET - STONE COPING
A303 / SCALE: 1" = 1 1/2" - 0" - ARCH EXP D



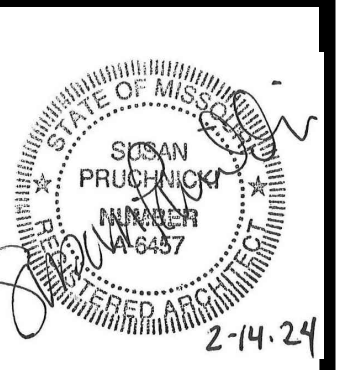
7 REGLETTED COUNTER FLASHING
A303 / SCALE: 1" = 1 1/2" - 0" - ARCH EXP D



8 WINDOW SILL FLASHING
A303 / SCALE: 1" = 1 1/2" - 0" - ARCH EXP D



9 SCUPPER
A303 / SCALE: 1" = 1 1/2" - 0" - ARCH EXP D



ARCH EXP D
36" x 24"

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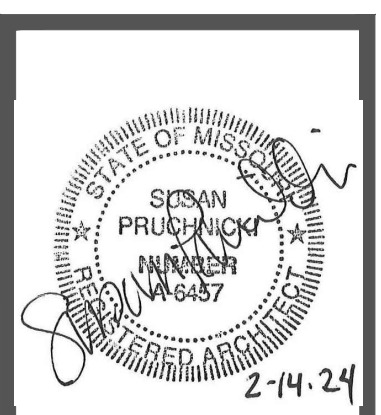
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116 SCHERER COURT #19
MANNING, MO 65611
(656) 231-2185

VARIOUS LOCATIONS - ROOF REPLACEMENTS
VETERINARY MEDICINE EAST
COLUMBIA, BOONE COUNTY, MISSOURI
ROOF DETAILS

PROJECT NUMBER
CP241331

SHEET
A303



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 410 S. OVERBROOK COURT #18
 COLUMBIA, MISSOURI 65201
 (636) 331-2105

VARIOUS LOCATIONS - ROOF REPLACEMENTS
 PLAZA 900 FACILITY - SHINGLE
 COLUMBIA, BOONE COUNTY, MISSOURI
 ROOF PLAN
 PROJECT NUMBER
 CP241331
 SHEET
 A401

SLOPED ROOFING SECTIONS

GENERAL ROOFING NOTES:

- CONTRACTOR RESPONSIBLE TO RECORD CONDITIONS BELOW OF EACH DAY'S DEMOLITION AREA PRIOR TO BEGINNING CONSTRUCTION.
- ROOFING CONTRACTOR SHALL ONLY REMOVE AN AREA OF ROOFING MATERIAL WHICH THEY WILL BE ABLE TO SEAL WATERTIGHT.
- ALL ROOFING MATERIALS SHALL BE COVERED WITH A BLACK CANVAS PRIOR TO ENDING EACH WORK DAY REGARDLESS OF DRY OVERNIGHT WEATHER FORECASTS.
- ALL LIFTABLE UNITS ARE TO BE RAISED A MINIMUM OF 12" ABOVE MEMBRANE SURFACE, NON-LIFTABLE UNITS SHALL BE FLASHED WITH 4" - 24 GA STAINLESS STEEL COUNTERFLASHINGS OVER A BUTYL-TAPE-SEALED, WATERTIGHT 1" TERMINATION BAR.

EXISTING ROOF CONSTRUCTION:

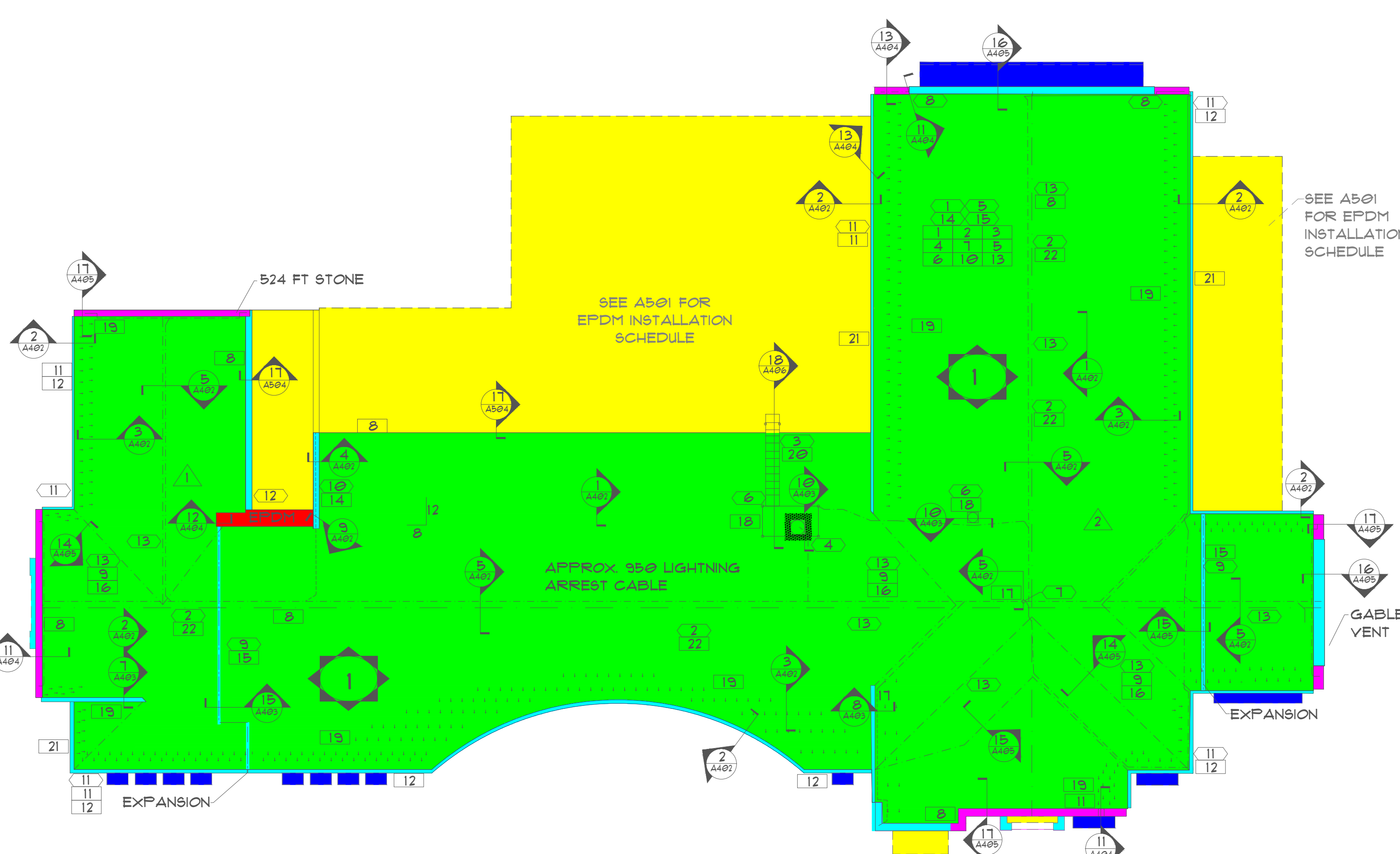
- ① VENTED METAL DECK, 3" ISO, 2 LAYERS 1/2" GYPSUM, FELT, ARCH SHINGLE
- ② VENTED METAL DECK, 3" ISO, 2 LAYERS 1/2" GYPSUM, FELT, ARCH SHINGLE

DEMOLITION NOTES:

- ① CONTRACTOR RESPONSIBLE TO DOCUMENT THE CONDITIONS BELOW EACH DAY DEMOLITION AREA PRIOR TO BEGGING TEAR-OFF. ONLY SECTIONS WHICH CAN BE SEALED WATERTIGHT BEFORE EACH DAYS WORK ARE TO BE REMOVED.
- ② THIRD PARTY TO REMOVE LIGHTNING ARREST SYSTEM, SET ASIDE FOR REFORTIFICATION.
- ③ REMOVE EXISTING LADDER FROM GREASE VENT PLATFORM AND SET ASIDE.
- ④ REMOVE FLASHINGS FROM PLATFORM SUPPORT LEGS.
- ⑤ REMOVE EXISTING SNOW AND ICE GUARDS FROM SHINGLE SURFACE AND DISCARD.
- ⑥ REMOVE EXISTING METAL FLASHINGS AND COUNTERFLASHING FROM CURB PROJECTIONS.
- ⑦ REMOVE SOIL STACK BOOTS AND FLASHINGS, COAT RUSTING METAL SURFACES WITH RUST INHIBITING PRIMER.
- ⑧ REMOVE THE LOWER 6" OF EPIS TO ALLOW NEW METAL COUNTERFLASHING INSTALLATIONS. (METAL COPINGS ABOVE GABLE VENTS ARE TO REMAIN UNDISTURBED, RE-SEAL ANY VOIDS)
- ⑨ REMOVE EXPANSION JOINT METAL AND RELATED COMPONENTS FROM SHINGLE ROOFING FIELD.
- ⑩ REMOVE FIELD SECTION OF METAL EXPANSION JOINT COPING AT RAKE WALL DETAIL WHILE LEAVING THE REGLETED RECEIVER UNDISTURBED FOR REUSE.
- ⑪ REMOVE METAL DRIP EDGE FROM EAVE.
- ⑫ REMOVE METAL EXPANSIONS AND EAVE DETAILS FROM SLOPED-TO-FLAT ROOFING TRANSITIONS WHILE LEAVING EXISTING EPDM MEMBRANE TROUGHS UNDISTURBED.
- ⑬ REMOVE ALL SHINGLED RIDGE CAPS, VALLEY FLASHING, HIPS CAPS, AND CURB FLASHINGS FROM THE SLOPED ROOFING AREA
- ⑭ REMOVE ALL ASPHALT GRANULATED SHINGLES AND EXPANDING FASTENER FROM GYPSUM FIELD.
- ⑮ REMOVE FELT UNDERLAYMENT AND REPAIR ANY DEFECTIVE AREA OF GYPSUM SURFACE.

RENOVATION NOTES:

- ① PULL TESTING IS REQUIRED TO DETERMINE DIAMETER OF GYPSUM PILOT HOLES -CONTACT OMG ROOFING PRODUCTS AT (800) 633-3800 TO REQUEST TESTING.
- ② CONTRACTOR RESPONSIBLE TO FIELD VERIFY ALL MEASUREMENTS PRIOR TO BEGINNING EACH DAY'S ROOFING MATERIAL INSTALLATION.
- ③ AREAS DIRECTLY BELOW OF EACH DAY'S INSTALLATION AREA ARE TO BE BARRICADED FROM REMAINING AREA OF THE ACTIVE DINING FACILITY BELOW.
- ④ PRE-DRILL 16 - 1/2" DIAMETER HOLES INTO EACH SHEET OF 1/2" X 4' X 8' PLYWOOD SHEATHING.
- ⑤ INSTALL ONE (1) LAYER OF PRE-DRILLED, EXTERIOR GRADE 1/2" X 4' X 8' PLYWOOD SHEATHING INTO A TWO-PART FOAMING ADHESIVE RIBBON, GUN GRADE.
- ⑥ USING 2.5" POLYMER GYFTEC FASTENERS AND 2" DIAMETER FASTENING PLATES, INSTALL 16 FASTENERS PER 4'x8' SHEET THROUGH PREDRILLED HOLES IN PLYWOOD INTO GYPSUM PILOT HOLES. PREPARE PLYWOOD PER MANUFACTURERS REQUIREMENTS TO RECEIVE SA ICE AND WATER SHIELD.
- ⑦ INSTALL ONE (1) LAYER OF SELF-ADHERED ICE AND WATER SHIELD WITH 4" END OVERLAPS, ROLLED DOWN WITH HAND ROLLERS
- ⑧ INSTALL ICE AND WATER EDGE FLASHING TO FRAME EDGES
- ⑨ INSTALL STRIP OF ICE AND WATER SHIELD TO RIDGE AND VALLEY CENTERS.
- ⑩ INSTALL ONE (1) LAYER OF SHARKSKIN UNDERLAYMENT TO THE ICE AND WATER LAYER, INSTALL USING ON CAP NAT EVER 4 SQ. FT.
- ⑪ INSTALL 24 GA KYNAR COATED DRIP EDGE AT EAVE DETAIL OVER NEW SHARKSKIN LAYER. INSTALL DRIP EDGE SUCH A MANNER TO PROMOTE WATERSHED INTO EXISTING GUTTERS.
- ⑫ INSTALL SHINGLE STARTER ROW USING NON-EXPOSED SECTION OF TYPICAL THREE TAB SHINGLES.
- ⑬ INSTALL ONE (1) LAYER OF CERTAINTED LANDMARK SHINGLE USING 6 - 10 GA X 1" NON-CORROSIVES NAILS (6 PER SHINGLE) CENTERED INTO THE SELF-SEALING NAIL STRIP. DO NOT INSTALL NAILS WITHIN 1" FROM SHINGLE EDGES.
- ⑭ INSTALL NEW 24 GA EXPANSION JOINT CAPS AT WALL RAKE DETAILS.
- ⑮ INSTALL SLOPED, INVERTED "V" FIELD EXPANSION METAL INTO SHINGLE ROWS WHILE WITCH CAP SEALING EACH OVERLAP AND FASTENING SECURELY. DETAIL IS TO BE SEALED WATERTIGHT.
- ⑯ INSTALL VALLEY SHINGLES TWO INCHES SHORT OF VALLEY CENTER OVER TOP OF ICE AND WATER SHIELD, TRIM UPSLOPE CORNER OF VALLEY SHINGLE TO ALLOW ICE TO PASS THROUGH VALLEYS.
- ⑰ INSTALL 4 LB LEAD, SOIL STACK FLASHING PER SHEET A5 (SHINGLE DETAIL 05T). SET FLASHING BASE INTO LIQUID FLASHING AFTER SEALING VOID SURROUNDING STACK. USE TWO FASTENERS AT TOP TWO CORNERS OF SHROUD.
- ⑱ INSTALL 4" "SLIP-IN" COUNTER FLASHING AT VENT PROJECTIONS.
- ⑲ INSTALL ICE AND SNOW GUARDS NO GREATER THAN 36" FROM EAVE'S FACE IN A STAGGERED PATTERN.
- ⑳ INSTALL NEW LADDER DETAIL FOR MAIN KITCHEN EXHAUST SERVICE PLATFORM ALLOWING CATWALK ACCESS.
- ㉑ ENSURE THAT ALL GUTTERS AND DOWNSPOUTS ARE CLEAR AND SPLASH PANS ARE IN PLACE BELOW TO COMPLETE INSTALLATION.
- ㉒ THIRD PARTY TO RE-INSTALL LIGHTNING ARREST SYSTEM - CONTACT SHINGLE MANUFACTURER PRIOR TO ATTACHING CABLE-FASTENING MOUNTS TO SHINGLE SURFACE FOR ADHESIVE REQUIREMENTS.
- ㉓ FILL SMALL ROOFING SECTION IN FRONT WITH LIGHT WEIGHT CONCRETE LEVEL WITH COPING ELEVATION, BLOCK SCUPPER OUTLET WITH PLYWOOD PRIOR TO FILLING

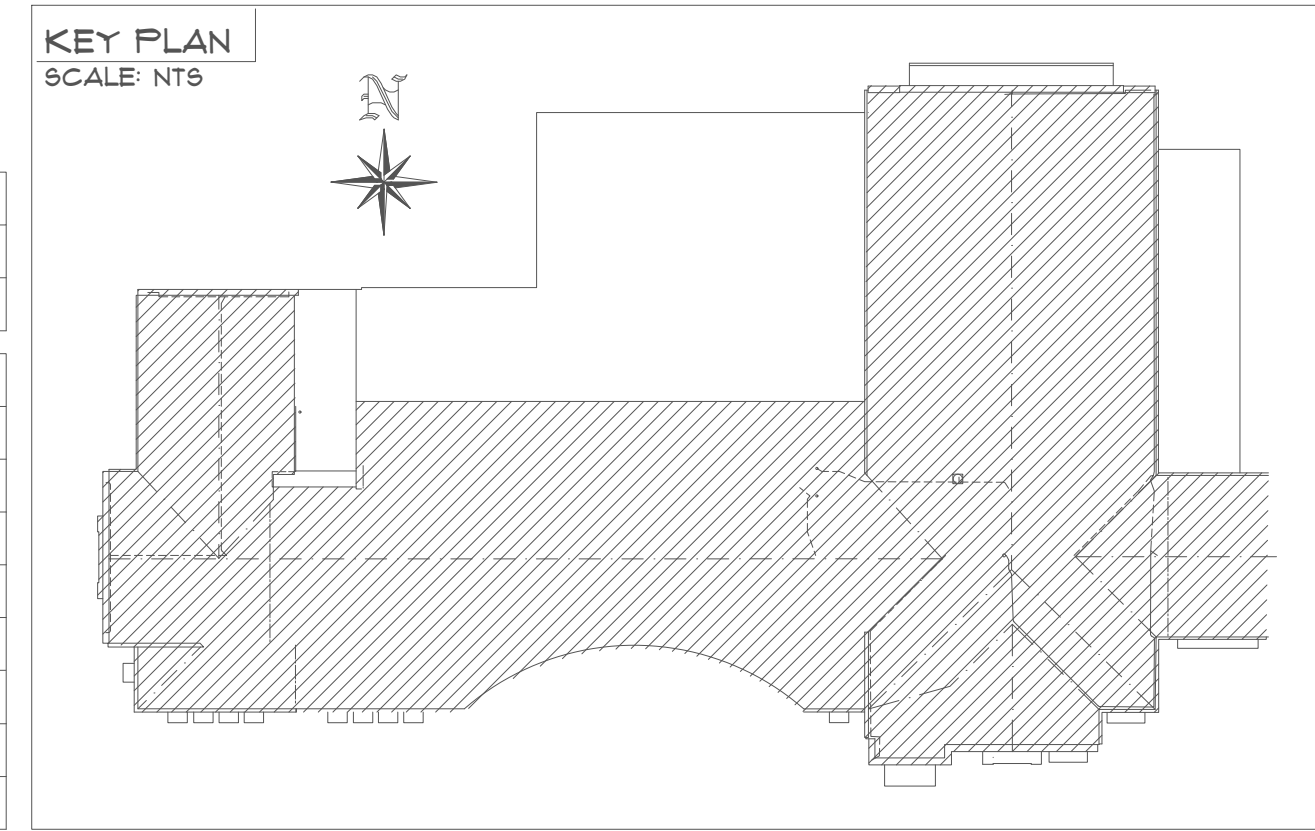


EXISTING MATERIAL LEGEND	
[Red]	GRANULATED MEMBRANE
[Yellow]	METAL
[Blue]	METAL
[Purple]	STONE

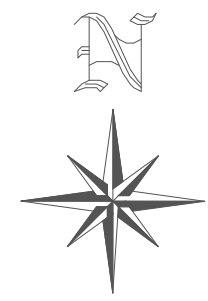
AREA LEGEND	
[Hatched]	20,000 SQ. FT.
[Dotted]	STONE 524 LF

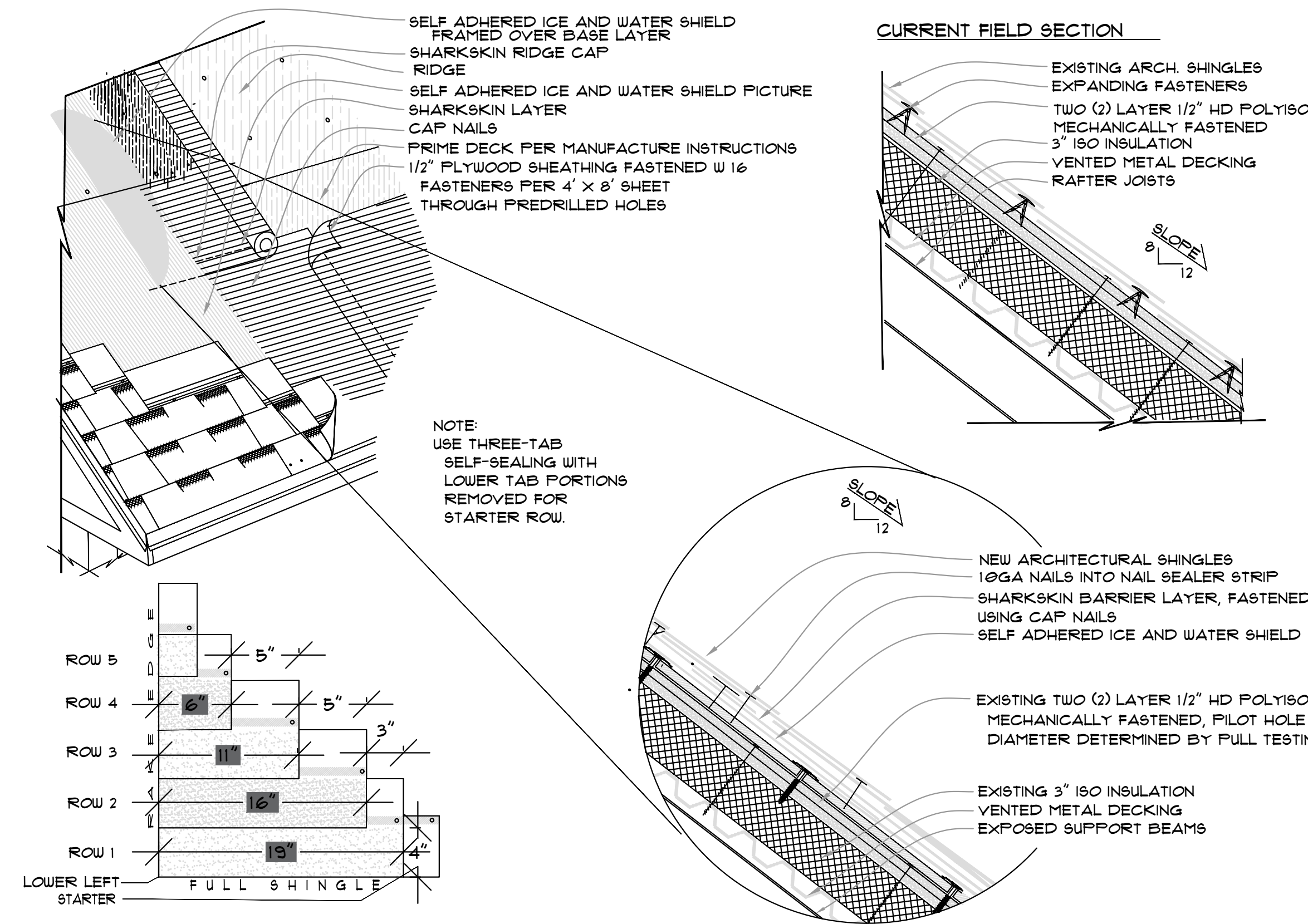
ROOFING LEGEND	
①	DEMOLITION KEY NOTE
⊕	ROOF DRAIN
⊖	DOMED VENTILATOR
○	SOIL STACK
△	CORE EXTRACTION
①	RENOVATION KEY NOTE
⊕	ROOF AREA IDENTIFIER
⌈	SCUPPER

KEY NOTE LEGEND	
⊕	SECTION ID
②	DEMOLITION NOTE
③	RENOVATION NOTE
⊕	DETAIL SECTION CUT

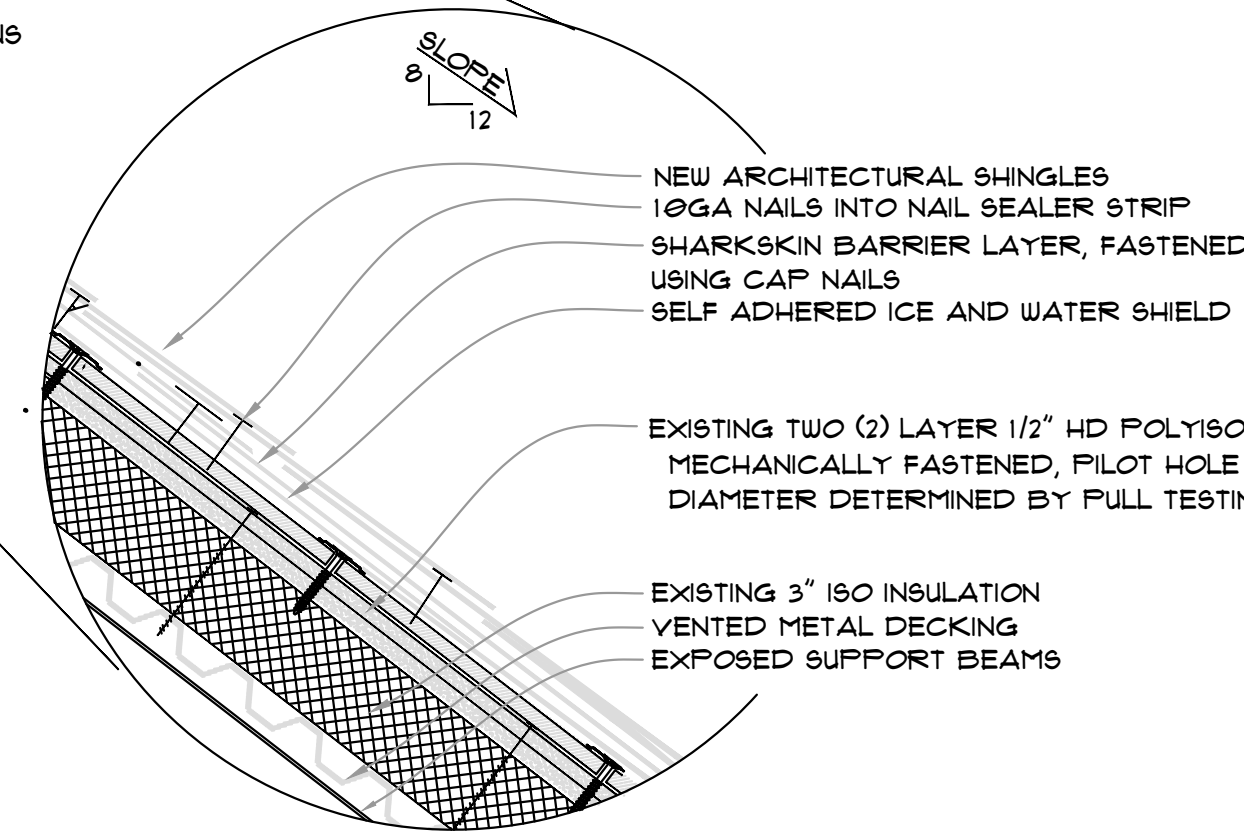


1 ROOF PLAN - SHINGLE DEMOLITION AND RENOVATION
 A401 SCALE: 1/8" = 1' - 0" - ARCH D

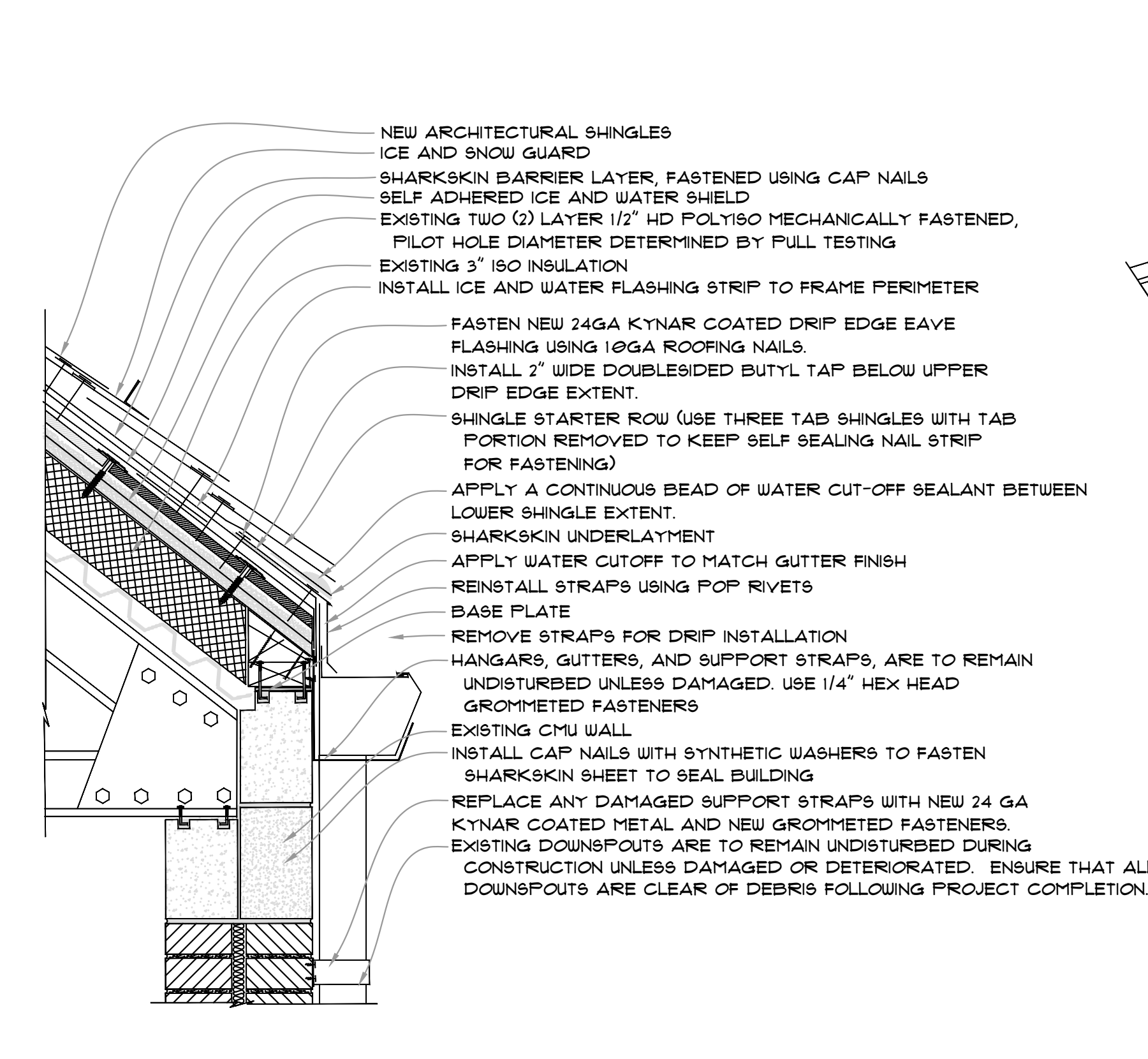




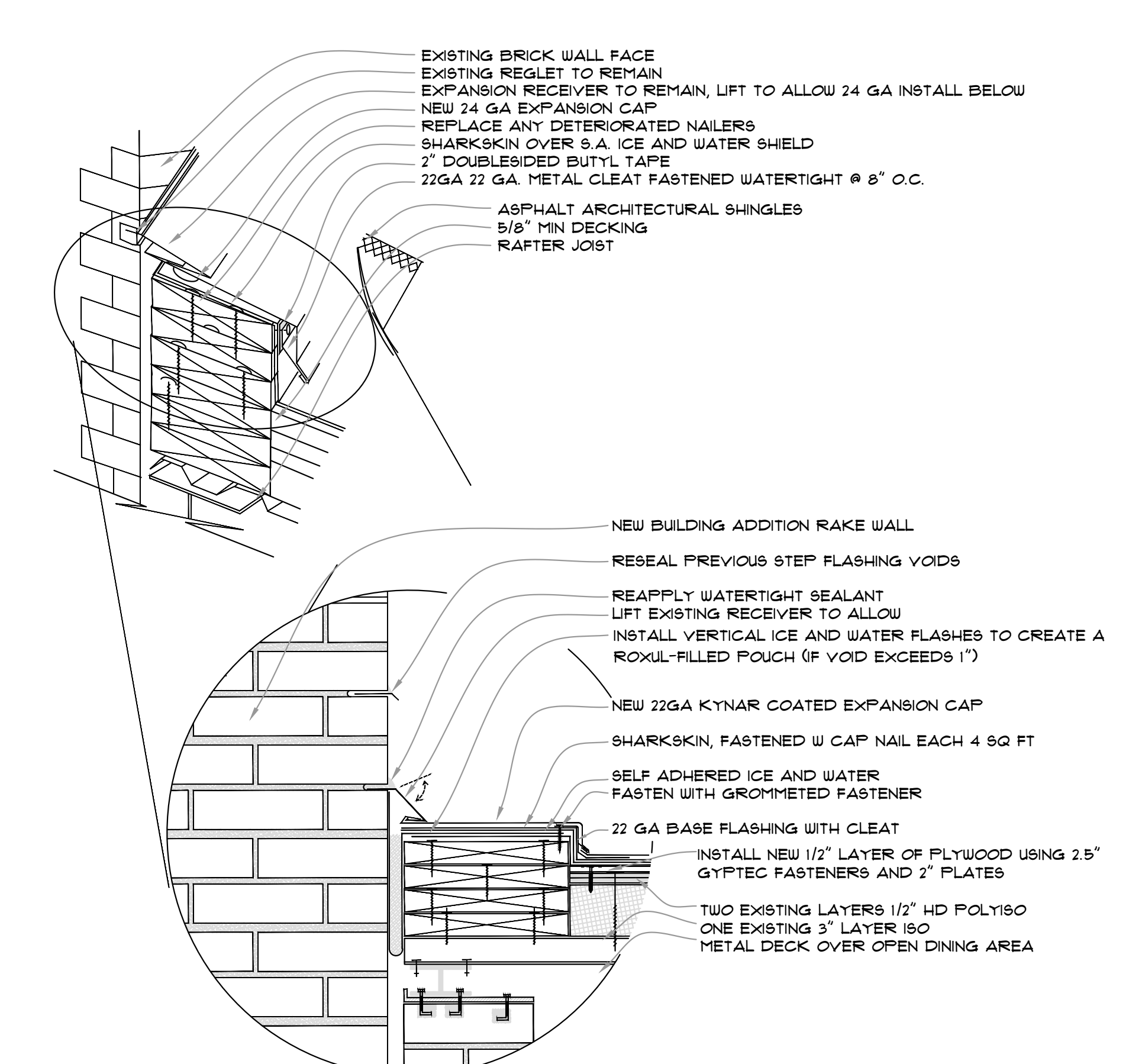
1 FIELD ASSEMBLY - SECTION 2
A402 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



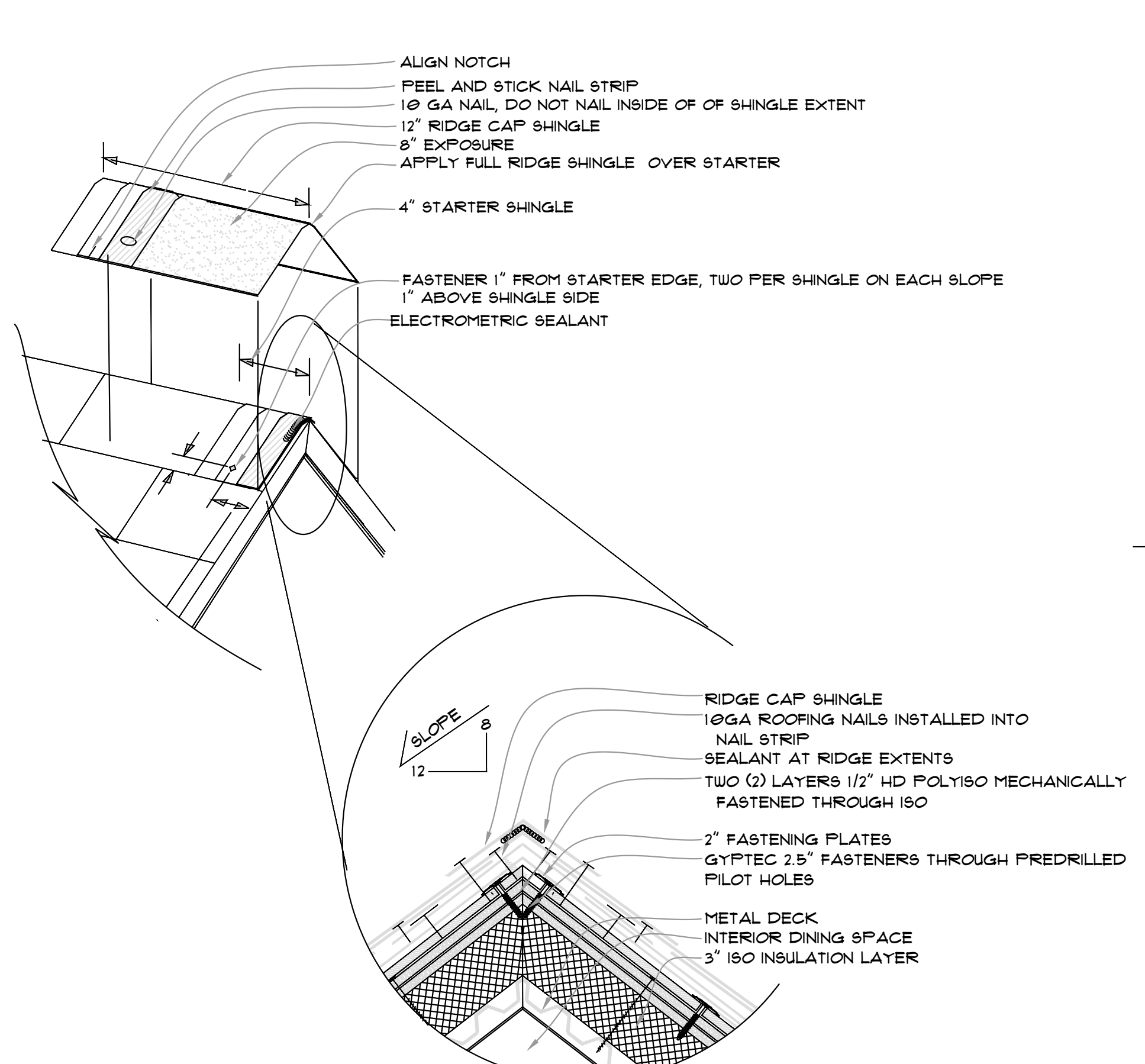
2 GUTTER DETAIL
A402 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



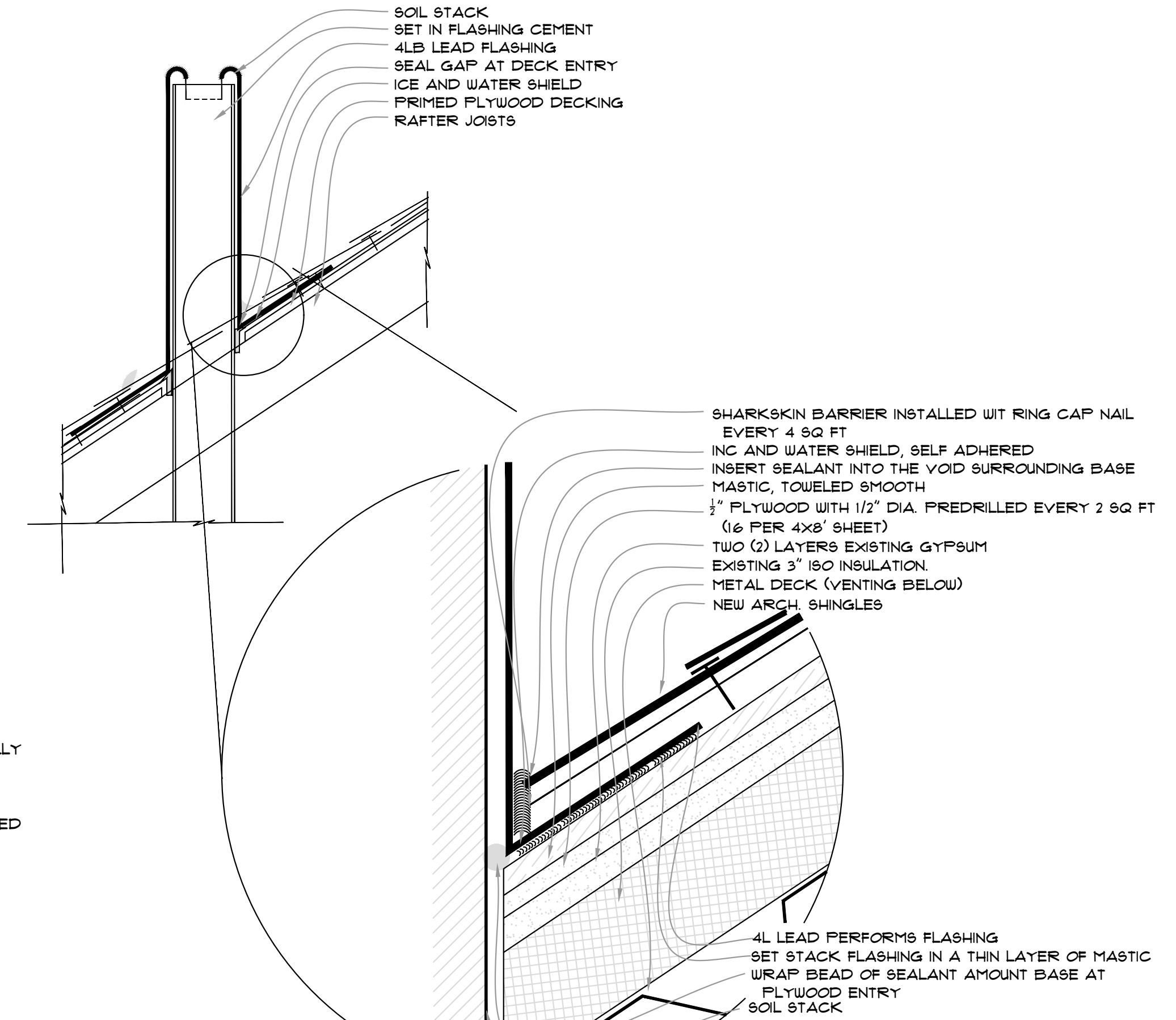
3 ICE GUARD - COPPER
A402 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



4 RAKE WALL EXPANSION
A402 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



5 RIDGE FLASHING
A402 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



6 SOIL STACK
A402 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



ARCH EXP D
36" x 24"

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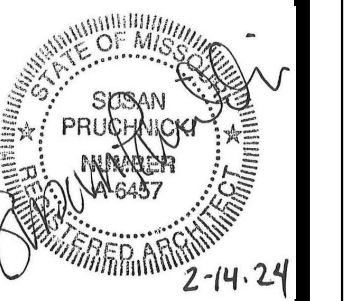
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(630) 351-7185

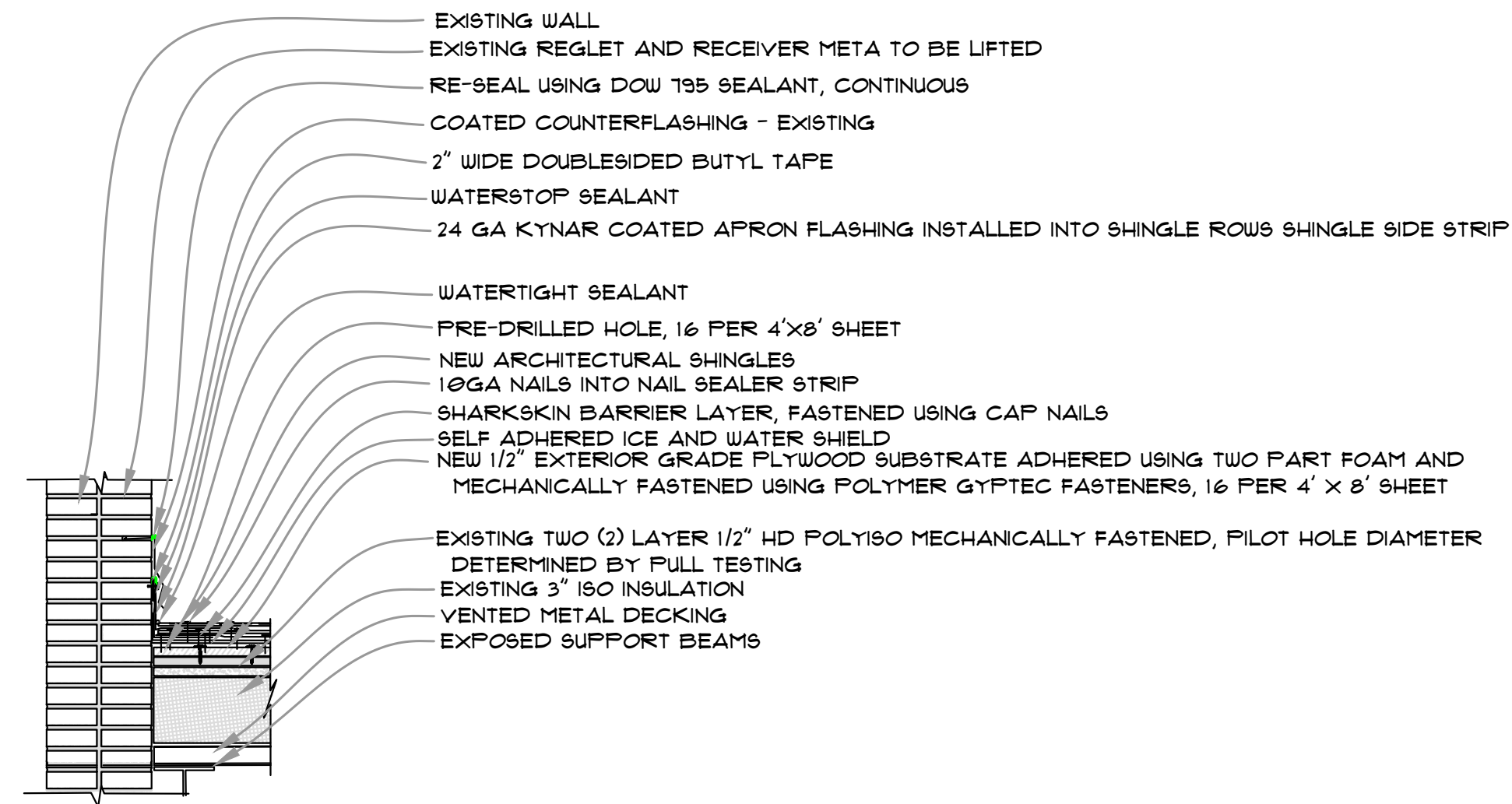
VARIOUS LOCATIONS - ROOF REPLACEMENTS
PLAZA 900 DINING FACILITY
COLUMBIA, BOONE COUNTY, MISSOURI
ROOF DETAILS

PROJECT NUMBER
CP241331

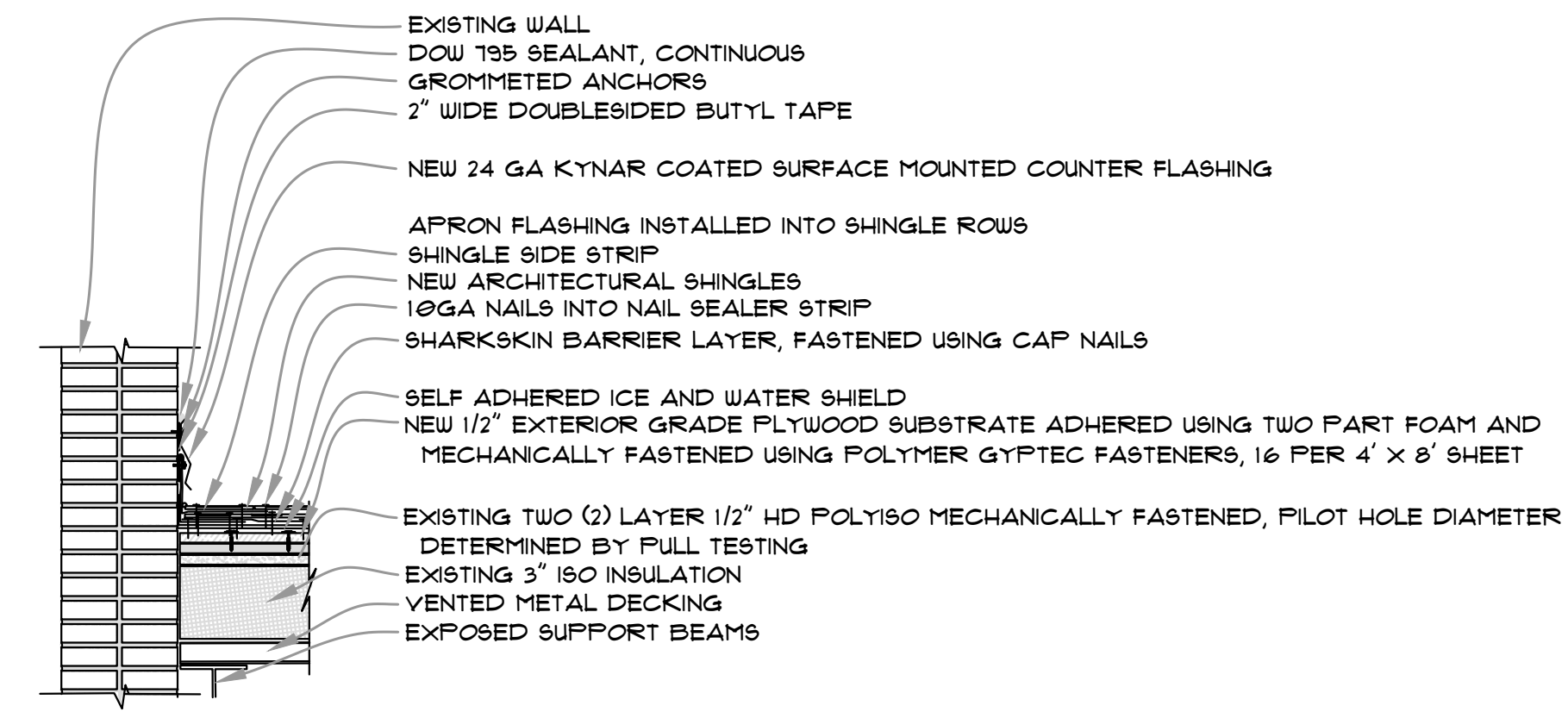
SHEET
A402



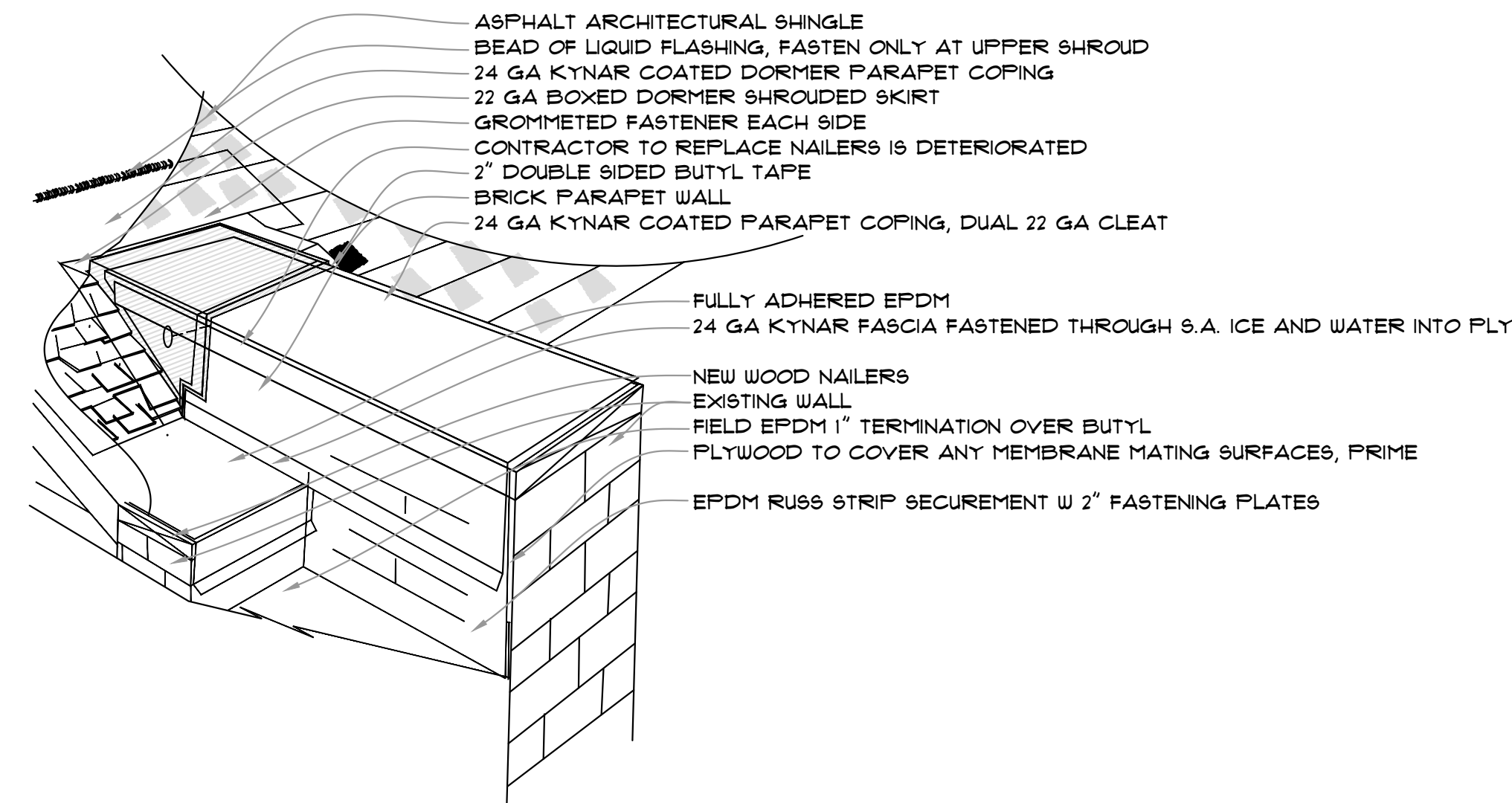
ARCH EXP D
36" x 24"



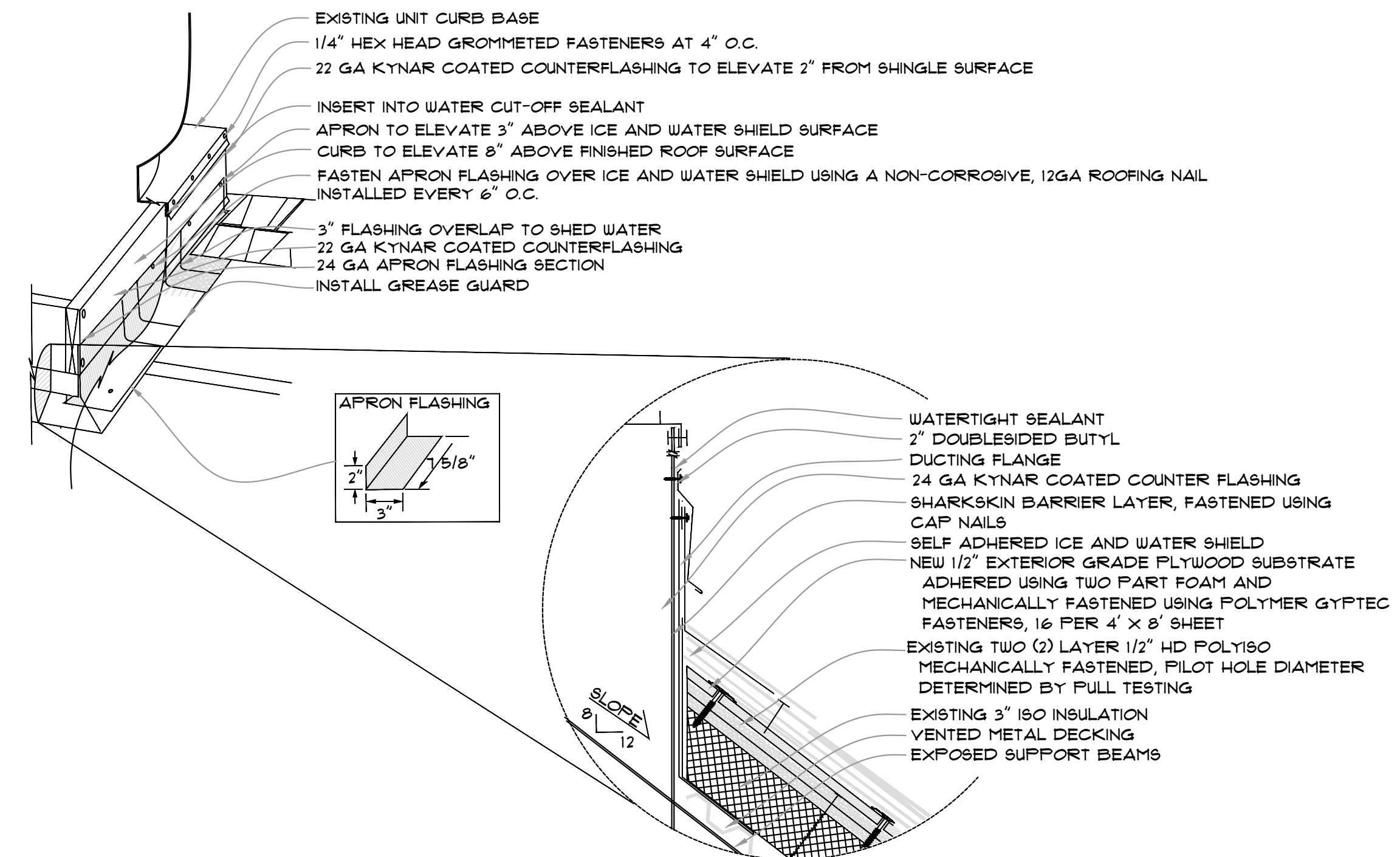
7 REGLETED COUNTERFLASHING
A403 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



8 SURFACE-MOUNTED COUNTERFLASHING
A403 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



9 PARAPET-TO-SLOPE TRANSITION
A403 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



10 VENT PROJECTION
A403 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D

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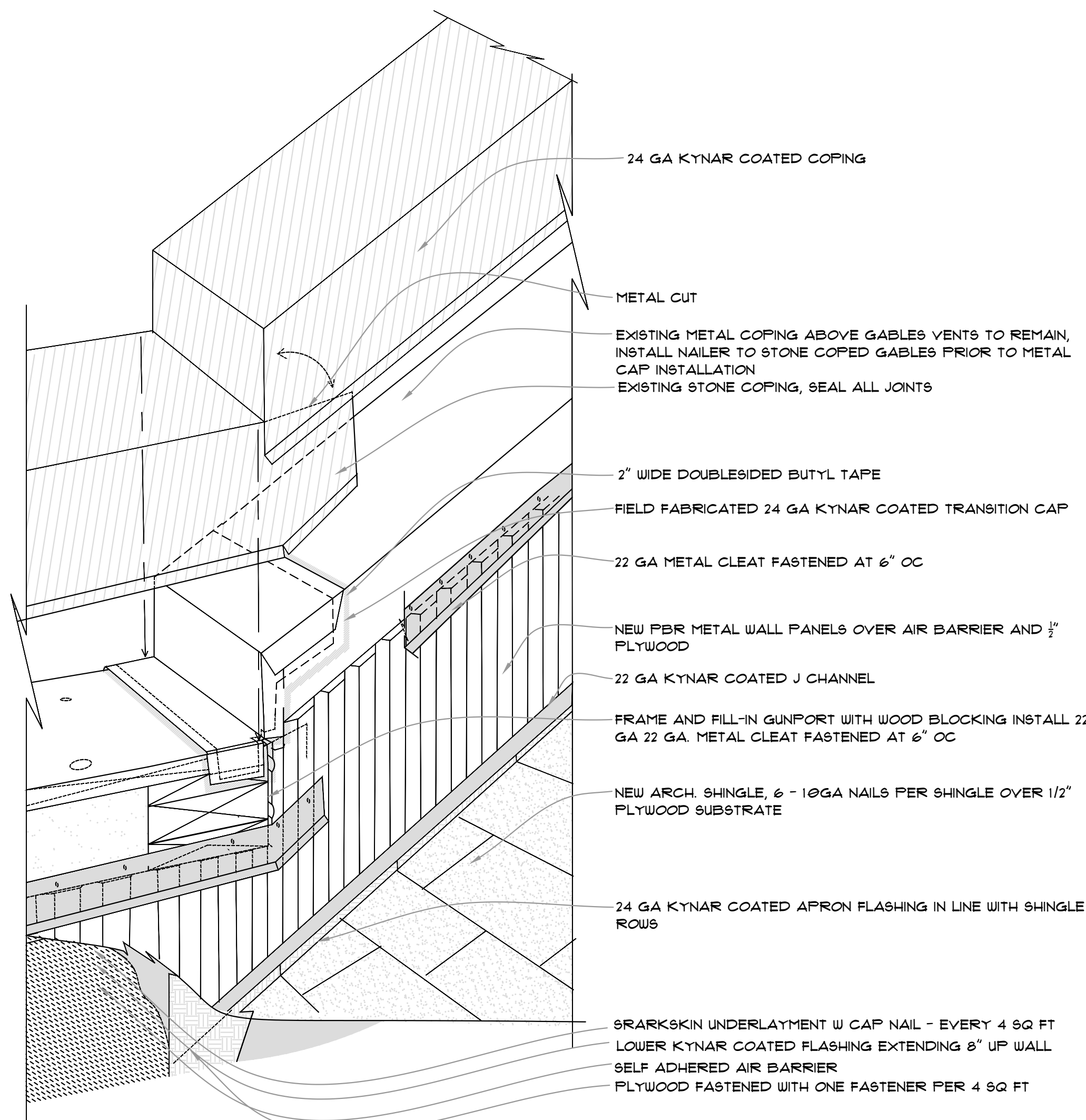
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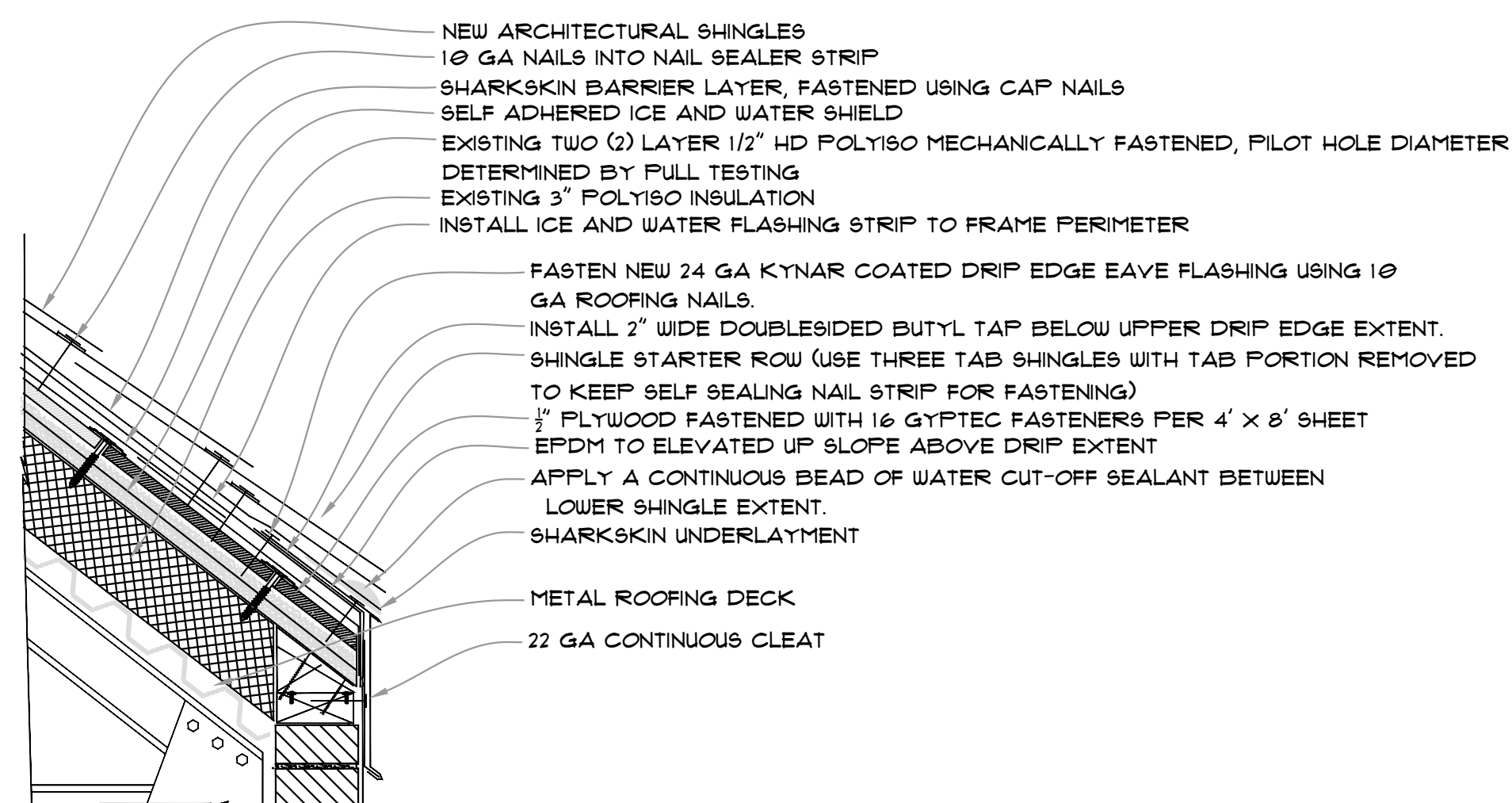
VARIOUS LOCATIONS - ROOF REPLACEMENTS
PLAZA 900 DINING FACILITY
COLUMBIA, BOONE COUNTY, MISSOURI
ROOF DETAILS

PROJECT NUMBER
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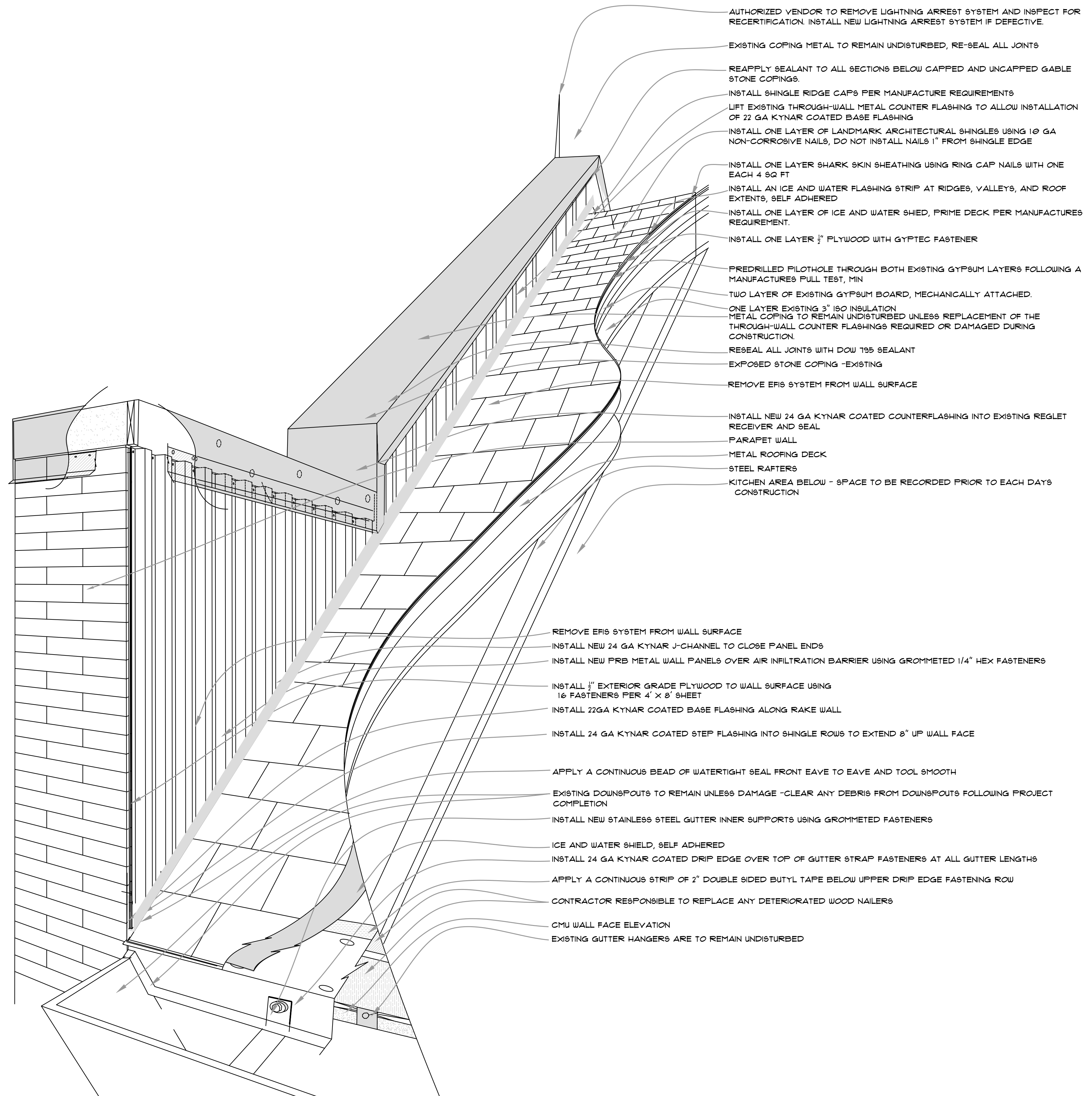
SHEET
A403



11 PARAPET TRANSITION SHROUD
A404 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



12 EAVE FLASHING - TYP.
A404 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



13 GABLE ASSEMBLY
A404 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



ARCH EXP. D
36" x 24"

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VARIOUS LOCATIONS - ROOF REPLACEMENTS
PLAZA 900 DINING FACILITY
COLUMBIA, BOONE COUNTY, MISSOURI
ROOF DETAILS

PROJECT NUMBER
CP241331

SHEET
A404



ARCH EXP. D
36" x 24"

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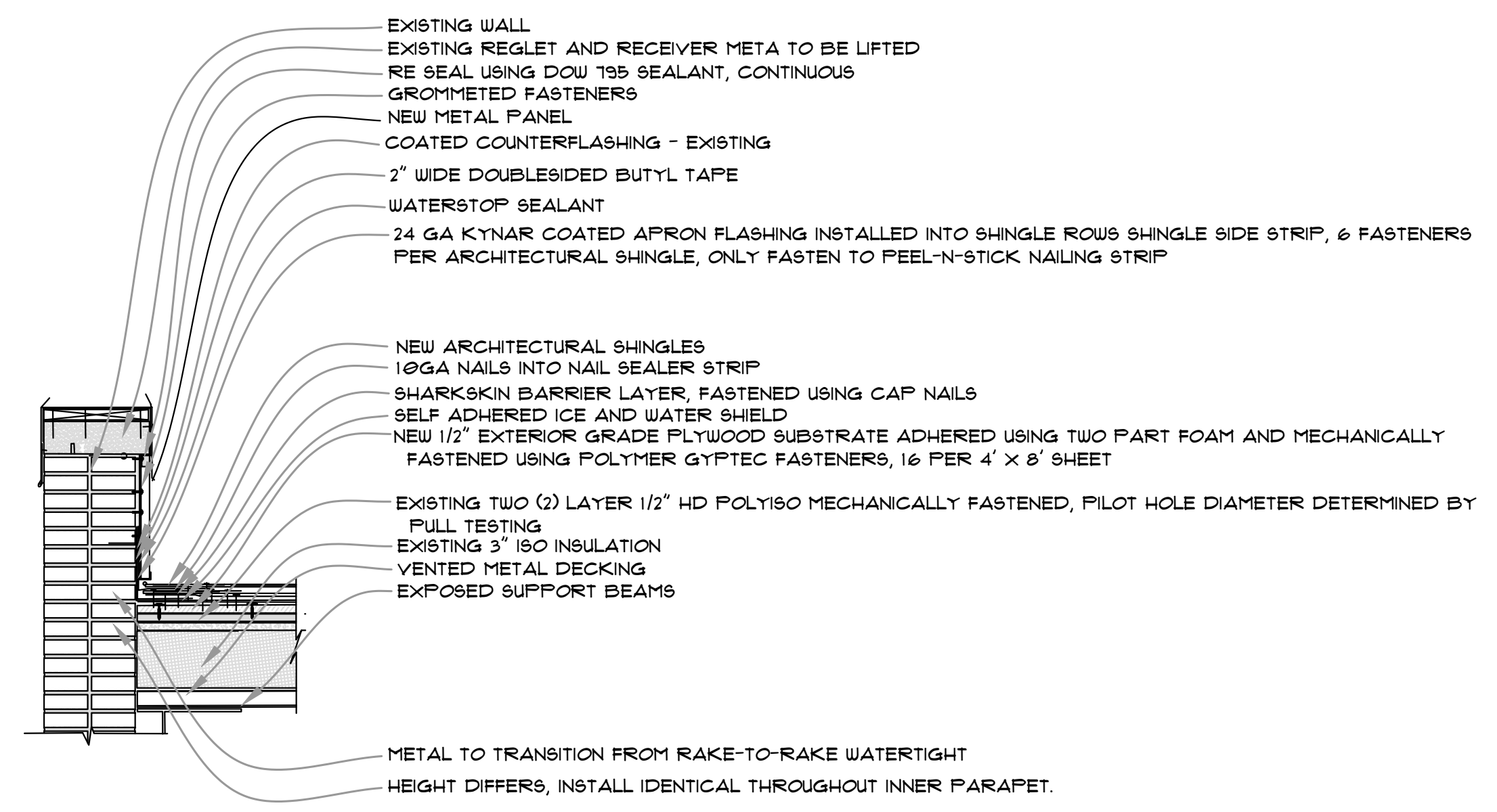
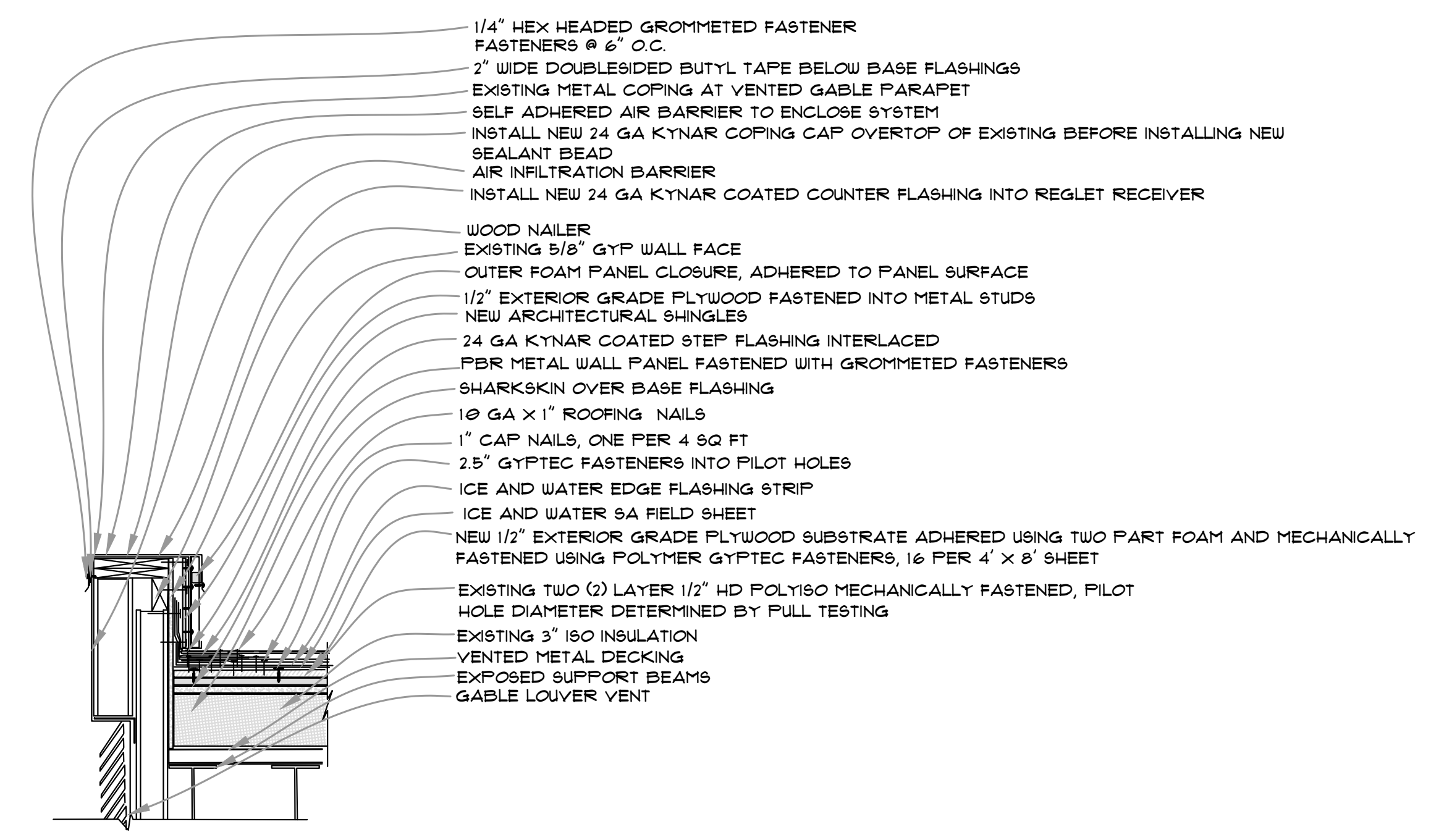
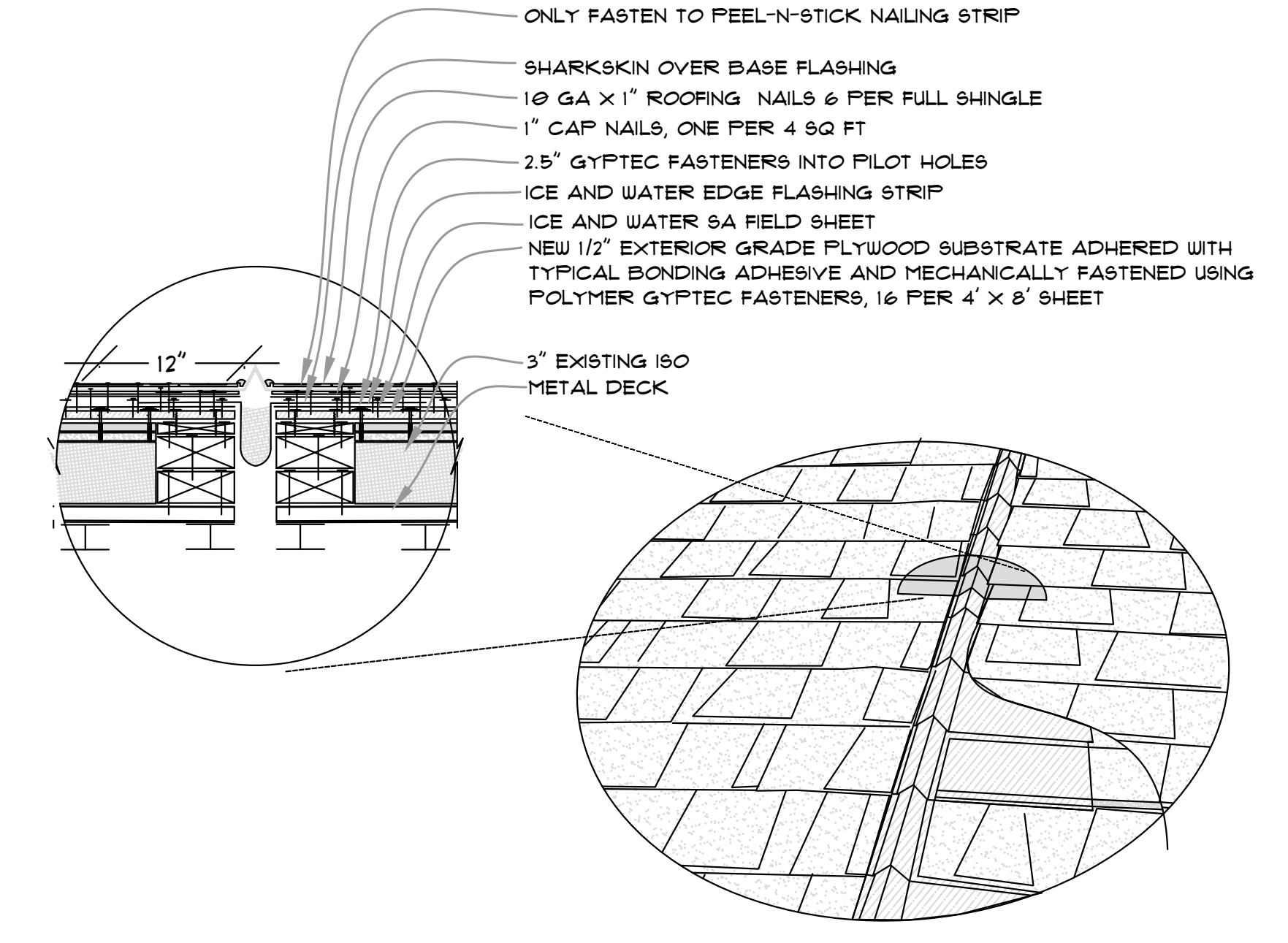
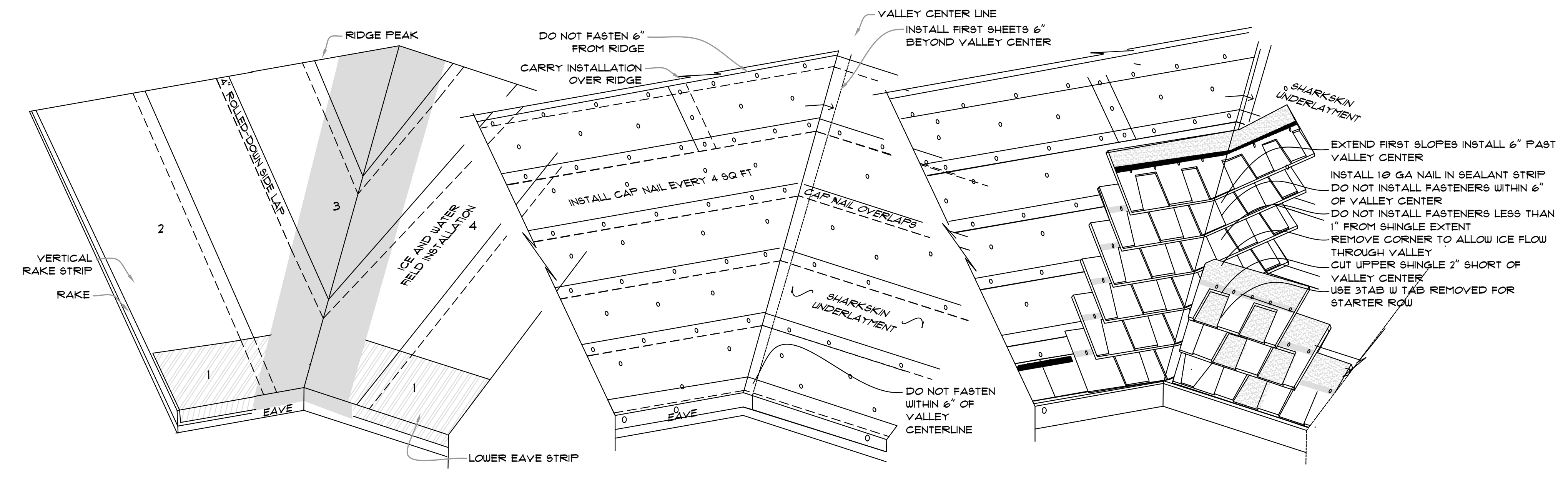
**VARIOUS LOCATIONS - ROOF REPLACEMENTS
PLAZA 900 DINING FACILITY
COLUMBIA, BOONE COUNTY, MISSOURI
ROOF DETAILS**

PROJECT NUMBER

CP241331

SHEET

A405





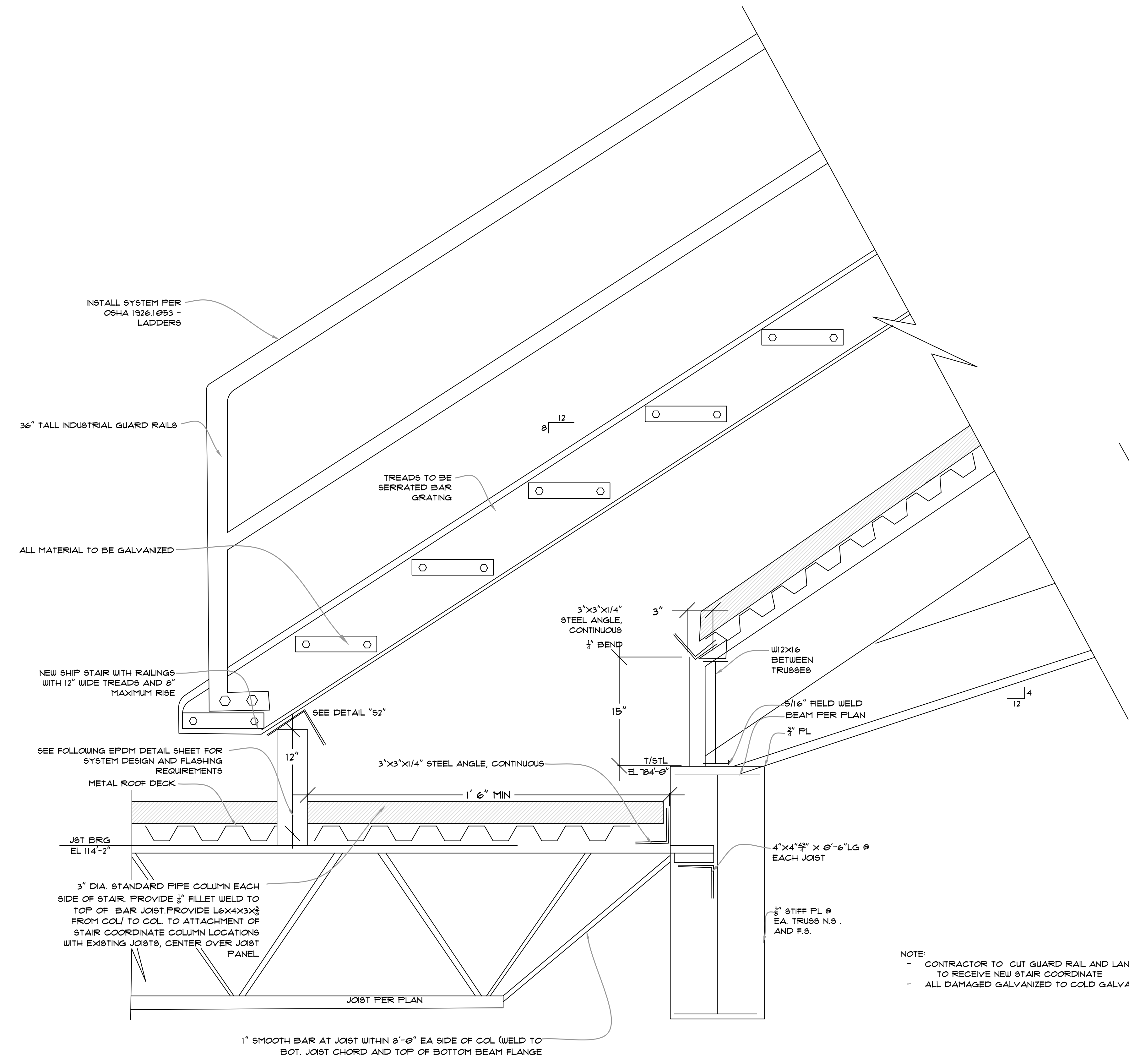
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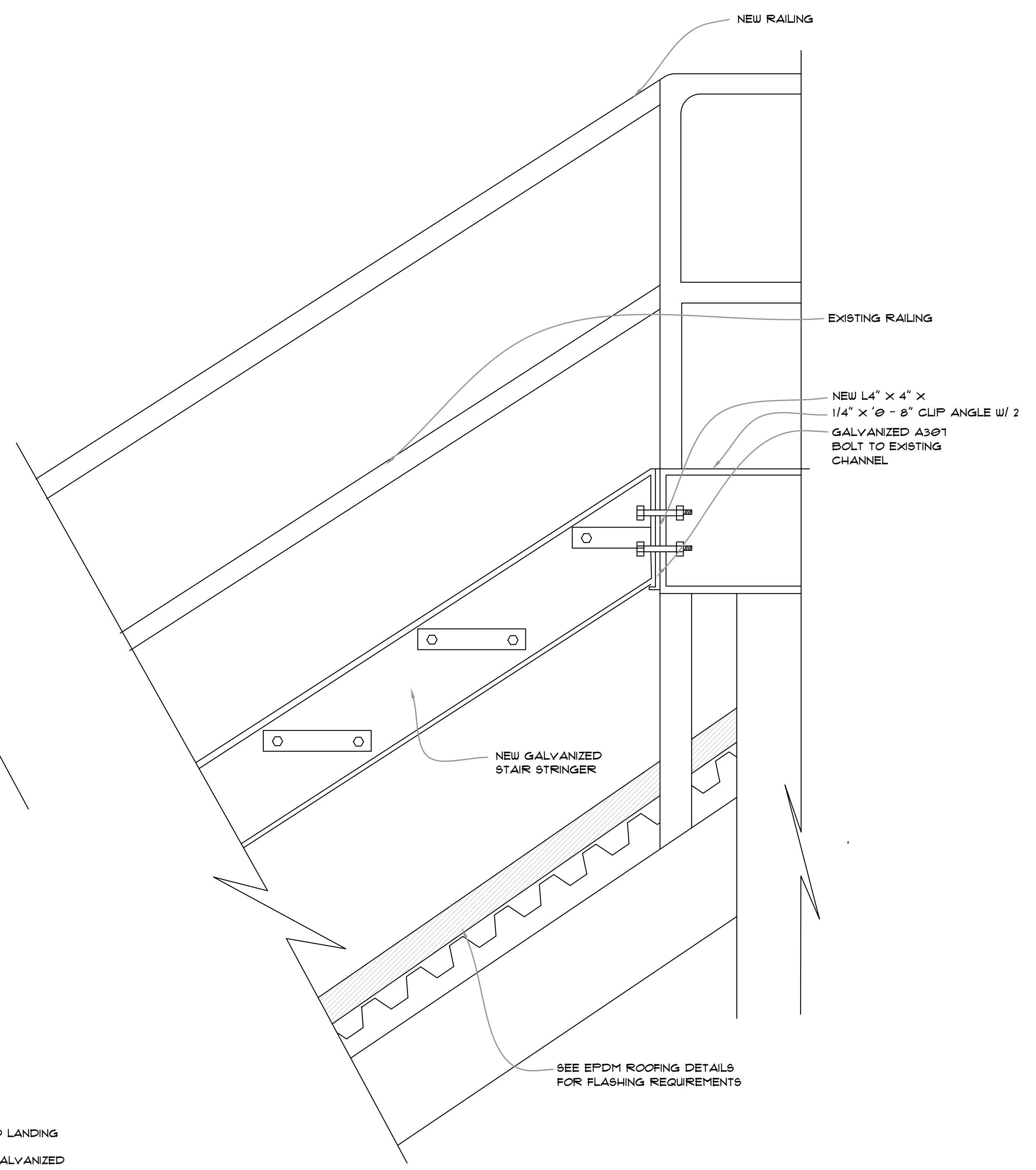
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 410 SOVEREIGN COURT #18
 MANCHESTER, MO 63011
 (636) 391-2185

VARIOUS LOCATIONS - ROOF REPLACEMENTS
 PLAZA 900 DINING FACILITY
 COLUMBIA, BOONE COUNTY, MISSOURI
 ROOF DETAILS

PROJECT NUMBER
 CP241331
 SHEET
 A406



NOTE:
 - CONTRACTOR TO CUT GUARD RAIL AND LANDING TO RECEIVE NEW STAIR COORDINATE
 - ALL DAMAGED GALVANIZED TO COLD GALVANIZED



18 NEW VENT ACCESS STAIRWAY
 A406 SCALE: 1" = 1/2" - 0" - ARCH EXP D



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 MANCHESTER, MO 63301
 (636) 331-7185

VARIOUS LOCATIONS - ROOF REPLACEMENTS
 PLAZA 900 DINING FACILITY - EPDM
 COLUMBIA, BOONE COUNTY, MISSOURI
ROOF PLAN

PROJECT NUMBER
CP241331
 SHEET
A501

GENERAL ROOFING NOTES:

- CONTRACTOR RESPONSIBLE TO RECORD CONDITIONS BELOW OF EACH DAY'S DEMOLITION AREA PRIOR TO BEGINNING CONSTRUCTION.
- ROOFING CONTRACTOR SHALL ONLY REMOVE AN AREA OF ROOFING MATERIAL WHICH THEY WILL BE ABLE TO SEAL WATERTIGHT.
- ALL ROOFING MATERIALS SHALL BE COVERED WITH A BLACK CANVAS PRIOR TO ENDING EACH WORK DAY REGARDLESS OF DRY OVERNIGHT WEATHER FORECASTS.
- ALL LIFTABLE UNITS ARE TO BE RAISED A MINIMUM OF 12" ABOVE MEMBRANE SURFACE, NON-LIFTABLE UNITS SHALL BE FLASHED WITH 4" - 24 GA STAINLESS STEEL COUNTERFLASHINGS OVER A BUTYL-TAPE-SEALED, WATERTIGHT 1" TERMINATION BAR.

EXISTING ROOF CONSTRUCTION:

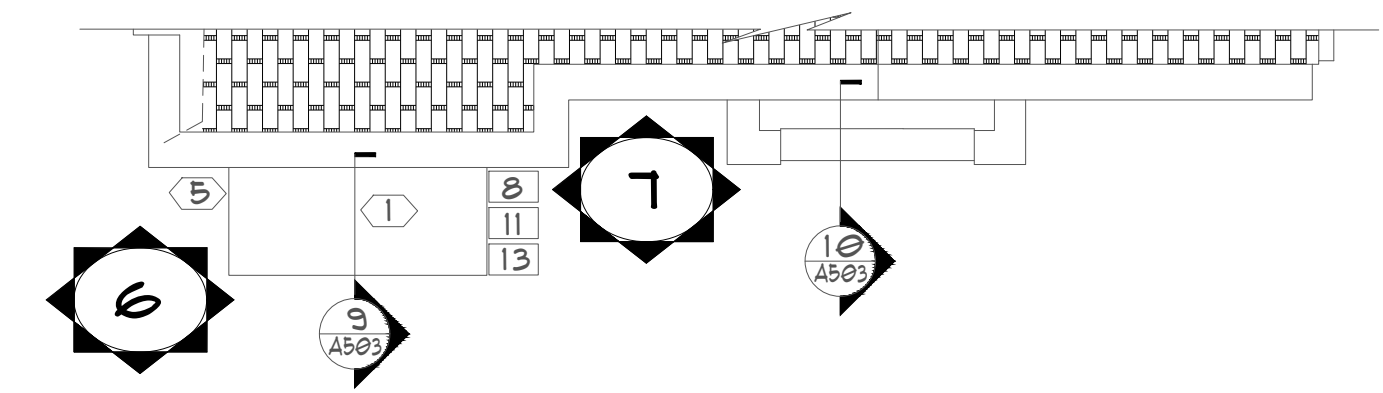
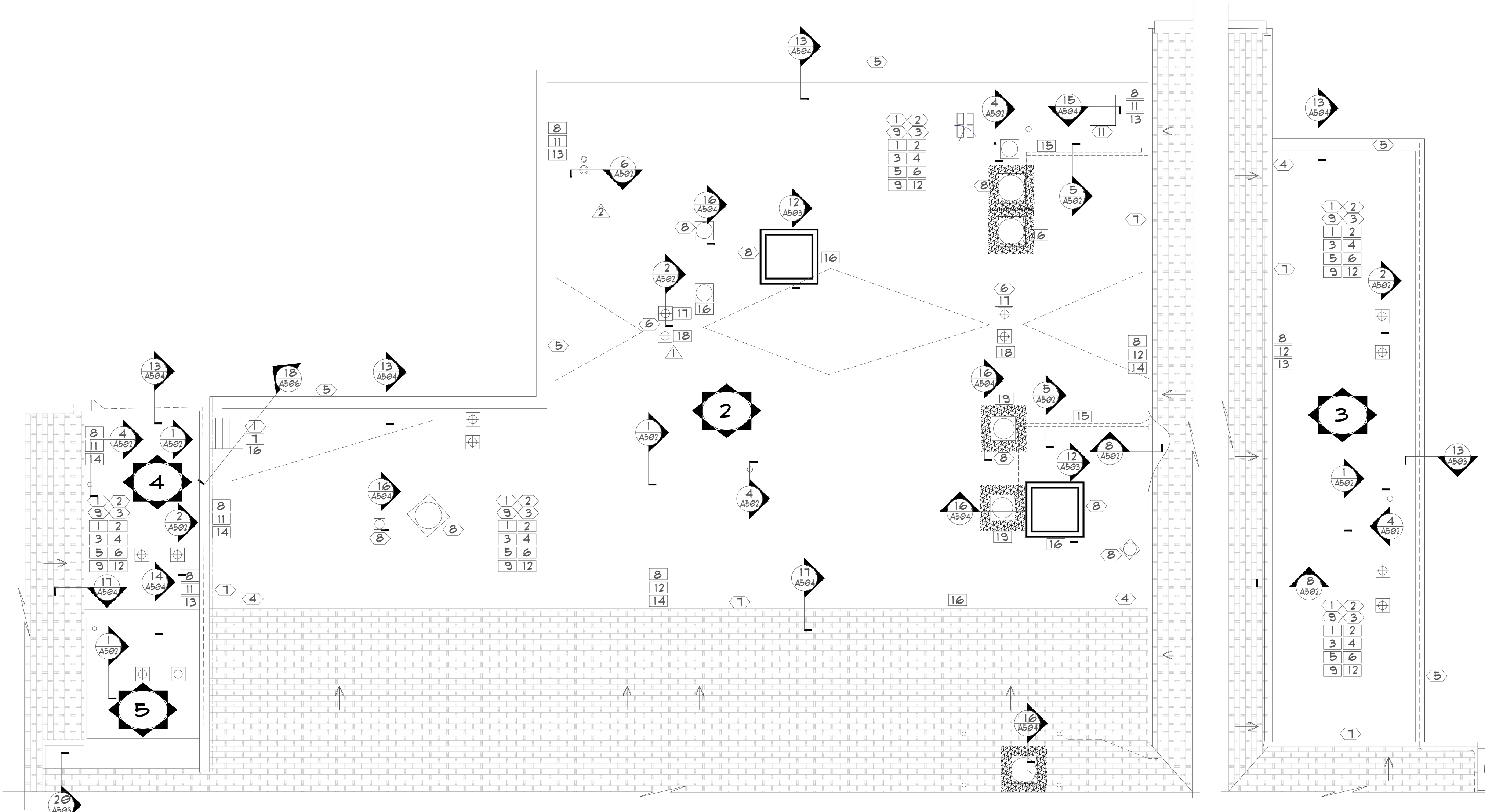
- ① METAL DECK, 1.5" PERLITE, 1/4"-12" TAPER, 1/2" FB, 4 PLY BUR (4.5" TOTAL)
- ② METAL DECK, 1.5" PERLITE, 1/4"-12" TAPER, 1/2" FB, 4 PLY BUR (7.5" TOTAL)
- ③ METAL DECK, 1.5" PERLITE, 1/4"-12" TAPER, 1/2" FB, 4 PLY BUR (1.5" TOTAL)

DEMOLITION NOTES:

- ① SET ASIDE WOODEN STARS AND TEMPORAL ALUMINUM LADDER USED TO ACCESS THE KITCHENS MAIN FRYER EXHAUST.
- ② CONTRACTOR RESPONSIBLE TO RECORD CONDITIONS BELOW OF EACH DAY'S WORK AREA PRIOR TO BEGINNING DEMOLITION.
- ③ CONTRACTOR TO ONLY TEAR-OFF SECTIONS OF MATERIAL WHICH CAN BE SEALED WATERTIGHT DAILY REGARDLESS OF DRY, OVERNIGHT WEATHER FORECASTS.
- ④ REMOVE EAVE, RAKE, SOFFIT, COUNTERFLASHINGS AND STACK FLASHING.
- ⑤ REMOVE ALL ASSOCIATED METAL FLASHING DETAILS FROM WALL AND PARAPET DETAIL.
- ⑥ ALL EXISTING ROOF DRAINS TO REMAIN REMOVE STRAINER AND CLAMPING RING FOR REINSTALLATION, REPLACE ANY MISSION, DETERIORATED, DEFECTIVE, OR BROKEN DRAIN COMPONENTS.
- ⑦ REMOVE COUNTER FLASHING FROM REGLET AND GRIND REGLET FOR REUSE.
- ⑧ REMOVE EXISTING CURB FLASHING REMOVE ALL PROJECTIONS AND SLEEPERS.
- ⑨ REMOVE EXISTING ROOFING MATERIAL DOWN TO THE STRUCTURAL DECK SURFACE.
- ⑩ REMOVE METAL SILL FROM WINDOW DETAIL, GET ASIDE FOR RE-INSTALLATION.
- ⑪ REMOVE SCUTTLE HATCH AND CURB FROM ROOF DECK, COVER WITH MATCHING DECKING

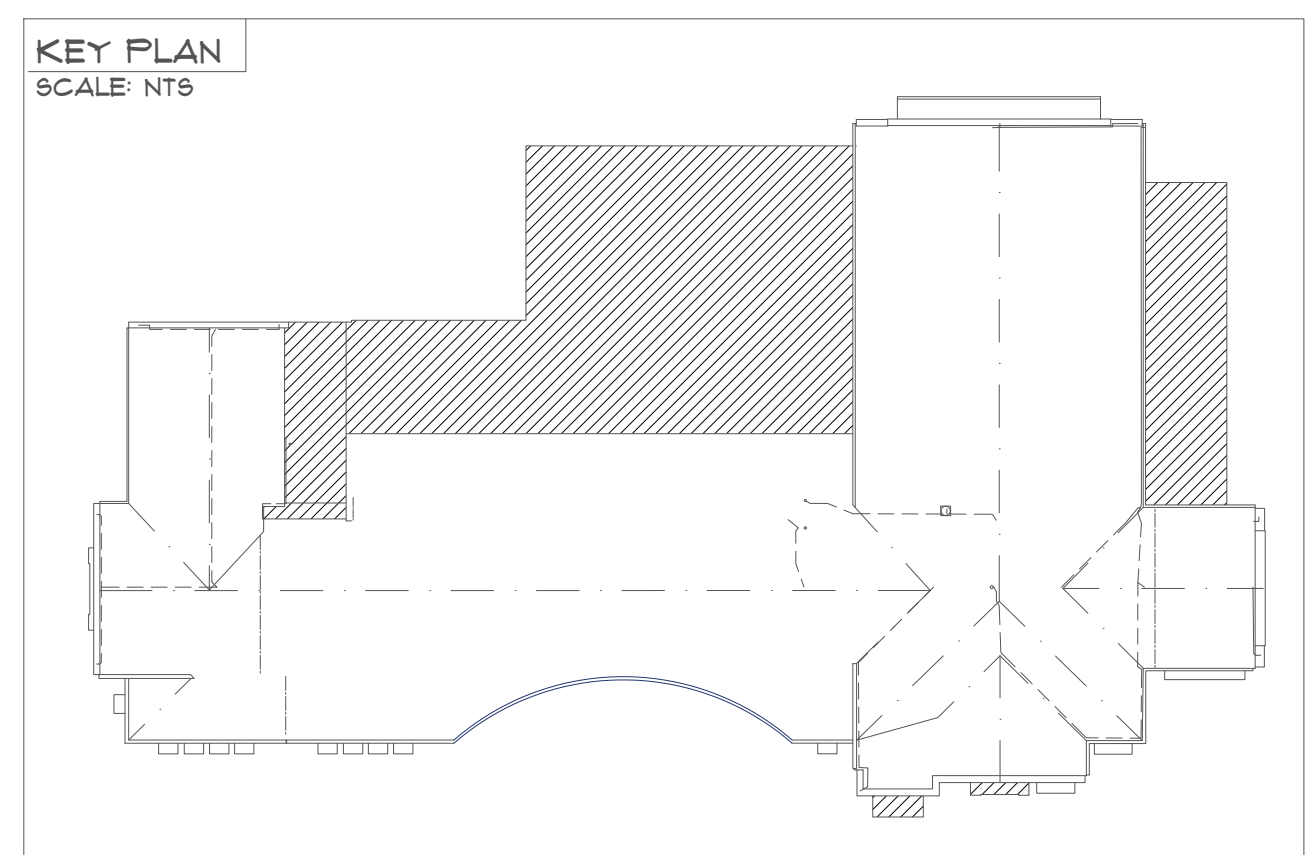
RENOVATION NOTES:

- ① CONTRACTOR RESPONSIBLE TO FIELD VERIFY ALL MEASUREMENTS PRIOR TO MATERIAL INSTALLATION.
- ② SWEEP DECK FLUTES FREE DEBRIS.
- ③ INSTALL 5/8" GYPSUM BASE BOARD MECHANICALLY FASTENED INTO METAL DECKING PER FM 1-105.
- ④ INSTALL ONE (1) LAYER OF SELF ADHERED VAPOR BARRIER TO A PRIMED GYPSUM SURFACE.
- ⑤ INSTALL ONE (1) LAYER 1.5" POLYISO INSULATION ADHERED WITH TWO PART FOAM PER FM 1-105 REQUIREMENT'S.
- ⑥ INSTALL ONE (1) LAYER 1/4"-12" TAPERED POLYISO INSULATION ADHERED WITH TWO PART FOAM PER FM 1-105 REQUIREMENT'S.
- ⑦ INSTALL 4' x 8' x 1/2" MARINE GRADE PLYWOOD LANDINGS INPLACE OF COVER BOARD AT ACCESS POINTS FOLLOWING THE INSTALLATION OF 1/2" - 12" TAPERED POLYISO CRICKETS AT PROJECTION UP SLOPE AND POTENTIAL PONDING AREAS.
- ⑧ INSTALL 1/2" EXTERIOR GRADE PLYWOOD TO WALL SURFACES TO RECEIVE EPDM FULLY ADHERED FLASHING.
- ⑨ INSTALL ONE (1) LAYER 1/2" HD COVERBOARD INSULATION ADHERED WITH TWO PART FOAM PER FM 1-105 REQUIREMENT'S.
- ⑩ CONTRACTOR TO RAISE ALL CURBS WHERE POSSIBLE TO A MIN OF 8" OVER FINISHED MEMBRANE SURFACE.
- ⑪ INSTALL NEW 24 GA COUNTERFLASHINGS AND EXPANSION COMPONENTS INTO A CLEAN, EXISTING REGLET RECEIVER WITH DOW 190 SEALANT ATOP CAULK TRAY.
- ⑫ INSTALL NEW 24 GA KYNAR COATED COUNTER FLASHING INTO CLEAN, EXISTING REGLET RECEIVER WITH DOW 190 SEALANT ATOP CAULK TRAY.
- ⑬ INSTALL ONE (1) LAYER OF 60 MIL EPDM MEMBRANE WITH 3" OVERLAPPING SEAMS WITH EPDM SEAM TAPE, FULLY ADHERE MEMBRANE FULLY ADHERED WITH LOW-VOC MEMBRANE ADHESIVE.
- ⑭ INSTALL FULLY-ADHERED EPDM FLASHING OVER 2" WIDE BUTYL TAPE, TERMINATE WITH A 1" ALUMINUM BAR FASTENED INTO EACH GIVEN ALLOWANCE.
- ⑮ INSTALL PIPE SUPPORTS BELOW SMALL A/C UNITS, GAS LINES, AND CONDUIT LINES.
- ⑯ INSTALL WALK PADS AT SERVICEABLE EQUIPMENT, LADDER, AND DOORS ACCESS POINTS.
- ⑰ ALL EXISTING ROOF DRAINS TO REMAIN, CONTRACTOR TO INSTALL 48" TAPERED SUMP'S AT DRAIN BEFORE INSTALLING EPDM MEMBRANE FLASHINGS. INSTALL NEW HARDWARE AND STRAINERS.
- ⑱ INSTALL 3" OVERFLOW SLEEVE TO OVERFLOW SYSTEM DRAIN LOCATION.
- ⑲ INSTALL GREASE TRAP TO SURROUND ACTIVE FRYER EXHAUST FANS.
- ⑳ SNAKE ALL DRAINS FOLLOWING PROJECT COMPLETION.



AREA LEGEND	
	4,714 SQ. FT.
	1,160 SQ. FT.
	300 SQ. FT.
	250 SQ. FT.
	50 SQ. FT.
	40 SQ. FT.

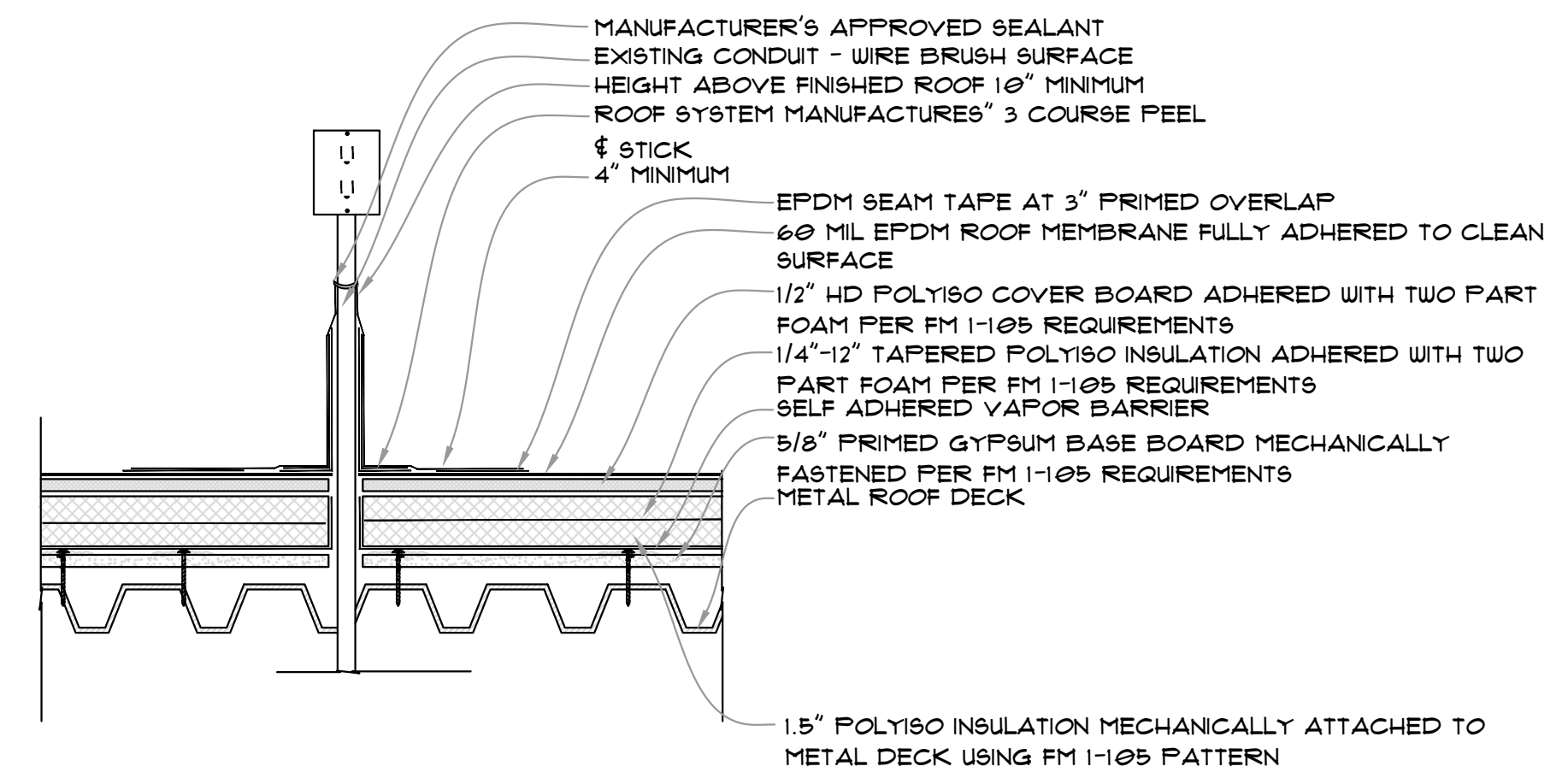
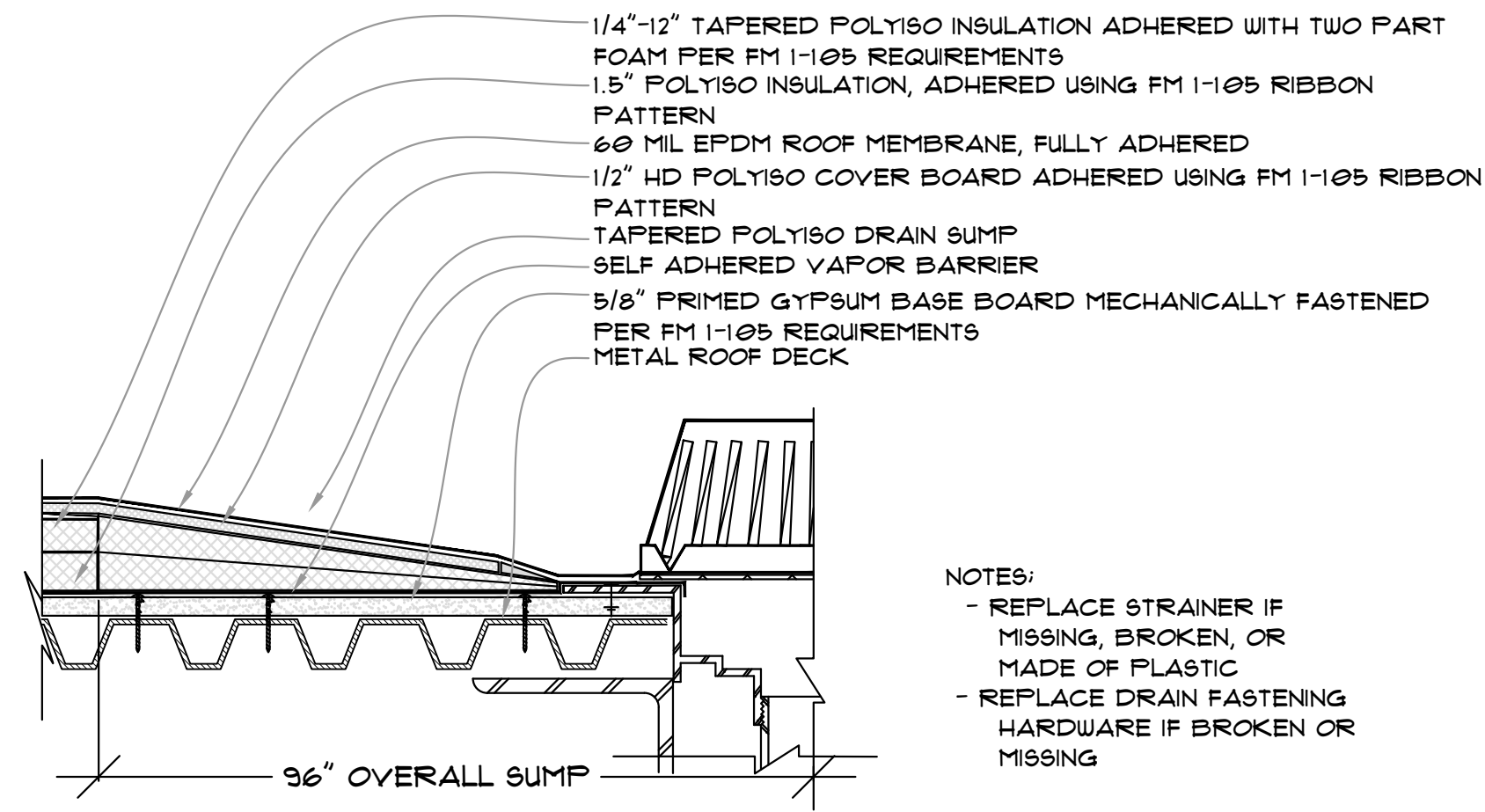
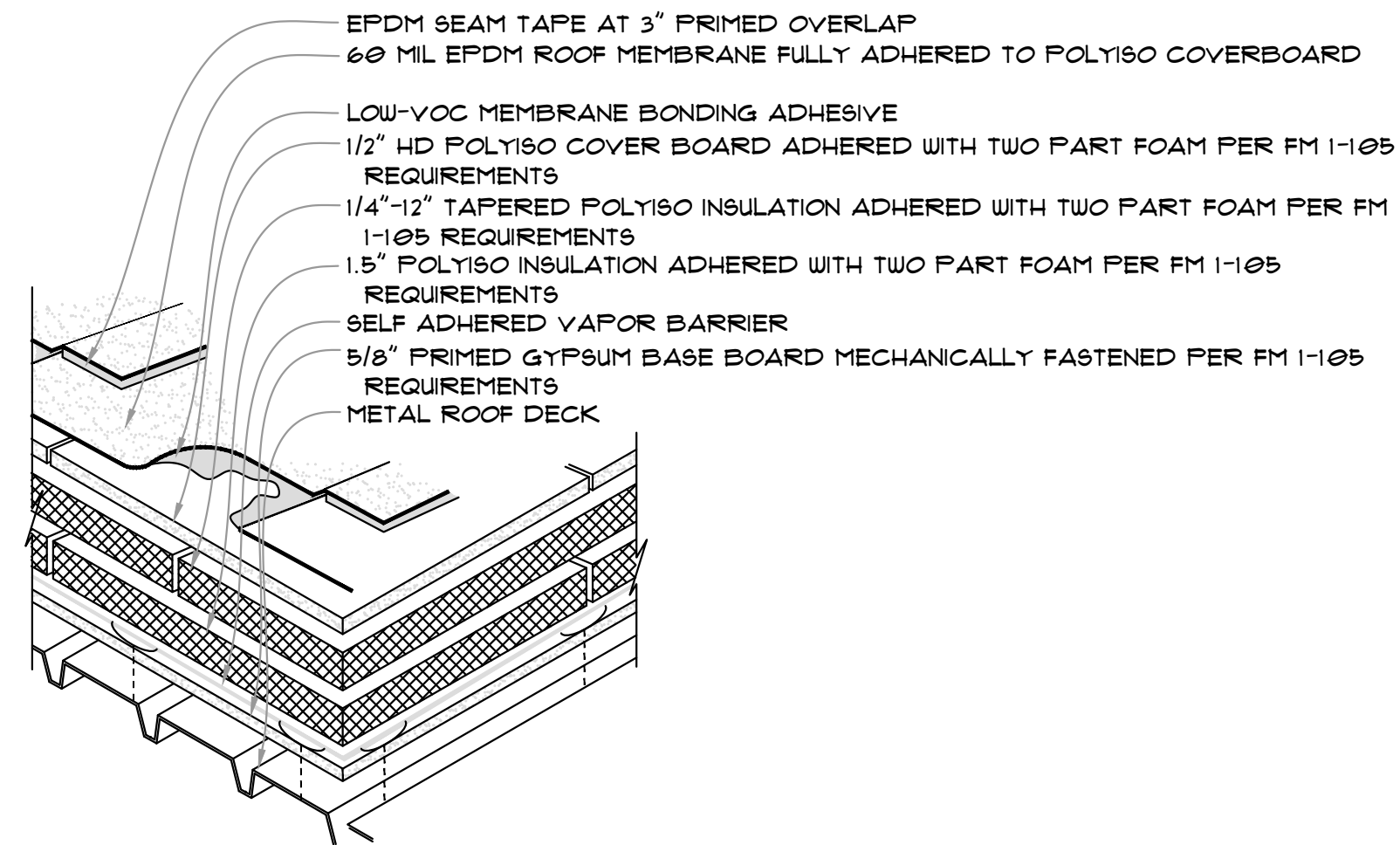
ROOFING LEGEND	
	DEMOLITION KEY NOTE
	ROOF DRAIN
	DOMED VENTILATOR
	SOL STACK
	CORE EXTRACTION
	RENOVATION KEY NOTE
	ROOF AREA IDENTIFIER
	SCUPPER



KEY NOTE LEGEND	
	SECTION ID
	DEMOLITION NOTE
	RENOVATION NOTE
	DETAIL SECTION CUT

1 ROOF PLAN - EPDM ROOFING SECTIONS
 A501 SCALE: 1/8" = 1' - 0" - ARCH D

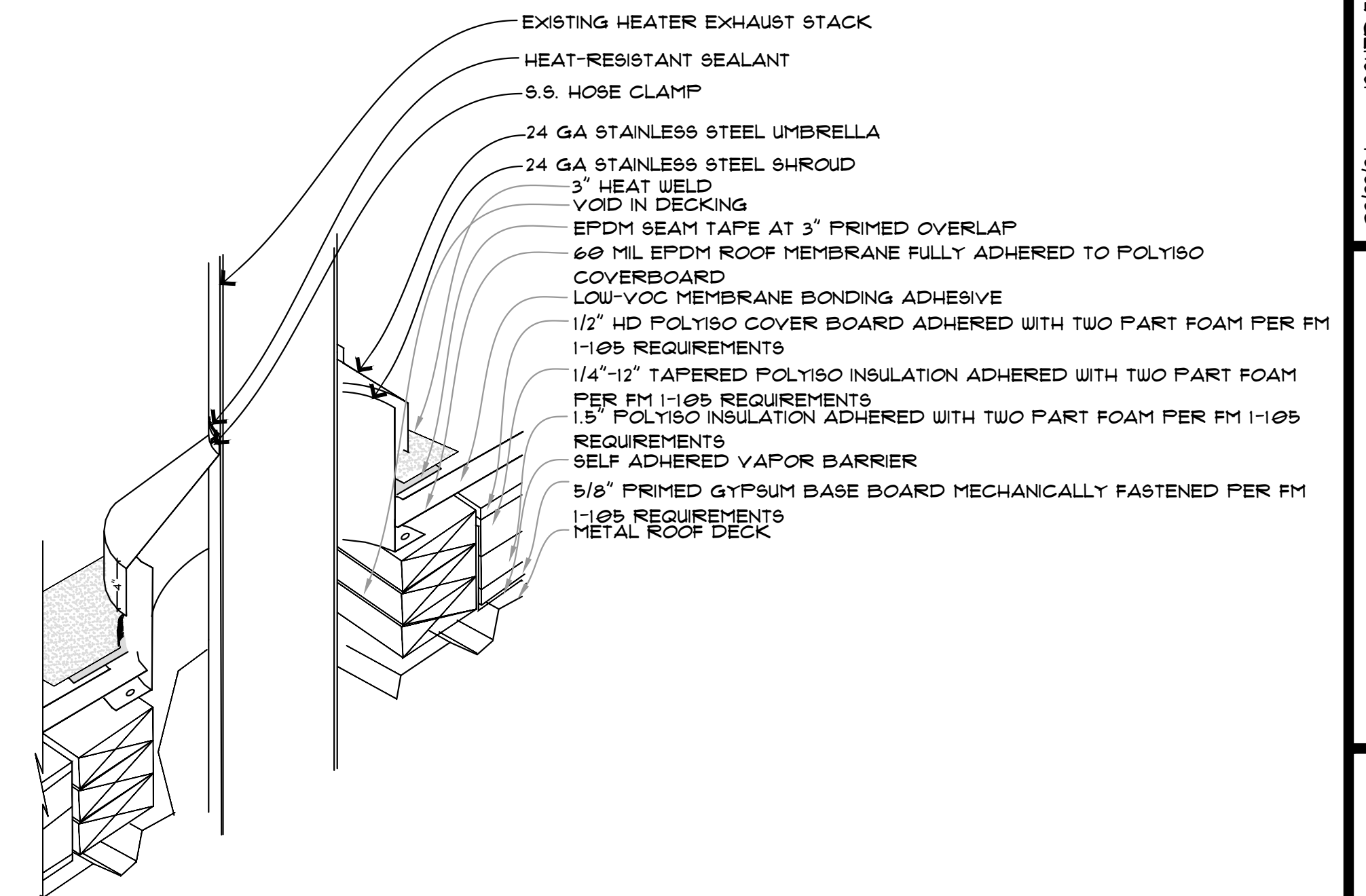
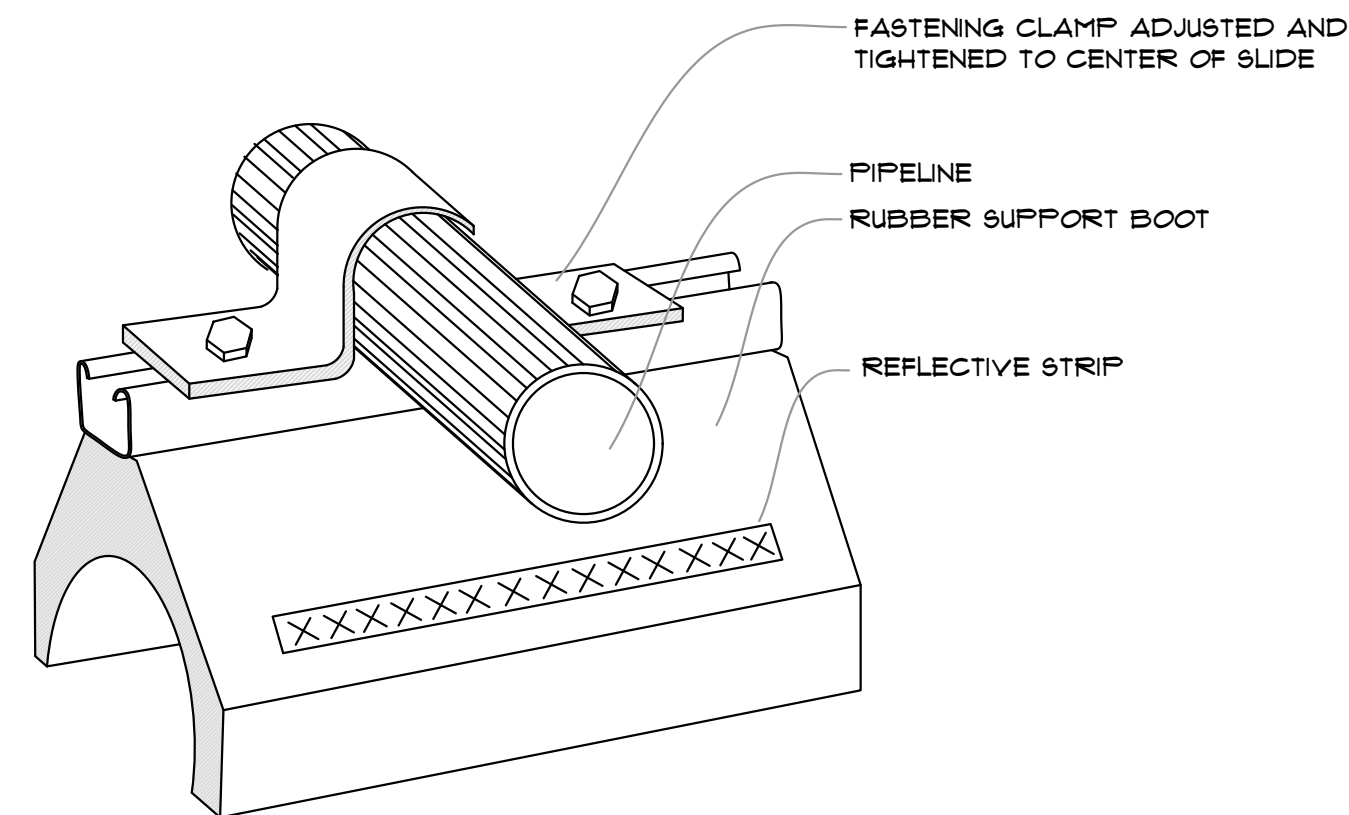
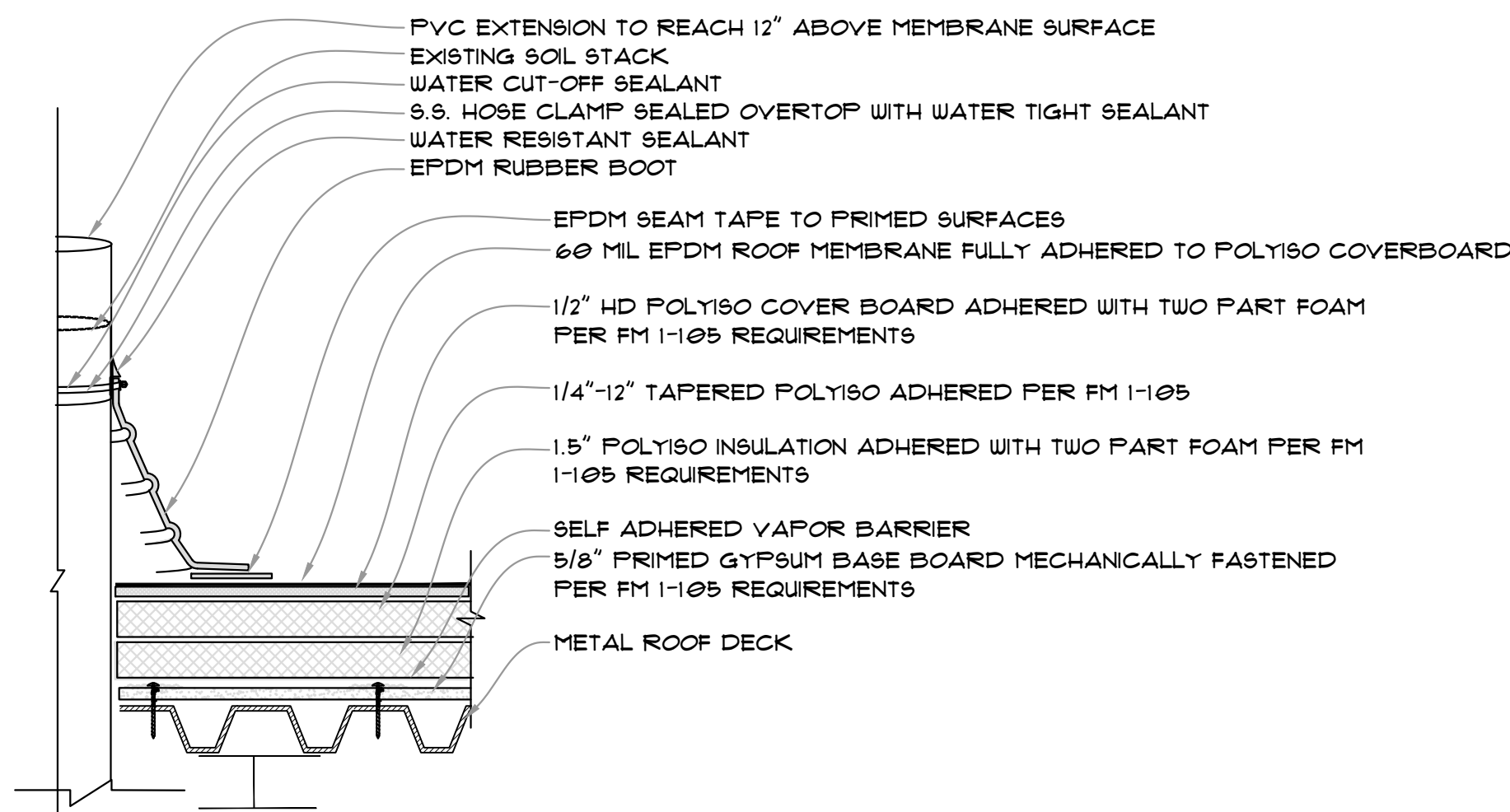




1 FIELD ASSEMBLY - SECTION 1
A507 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D

2 FIELD ASSEMBLY - SECTION 1
A507 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D

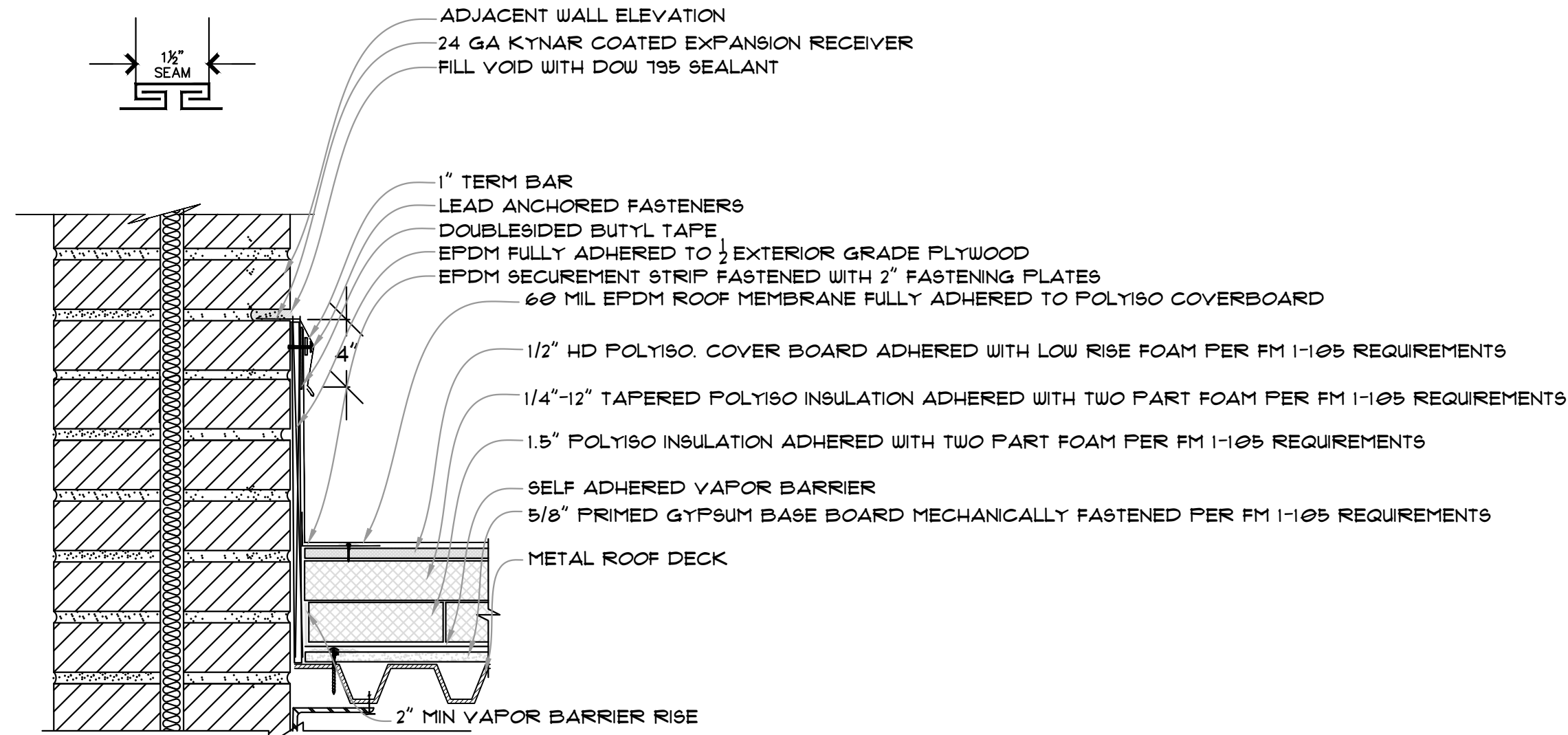
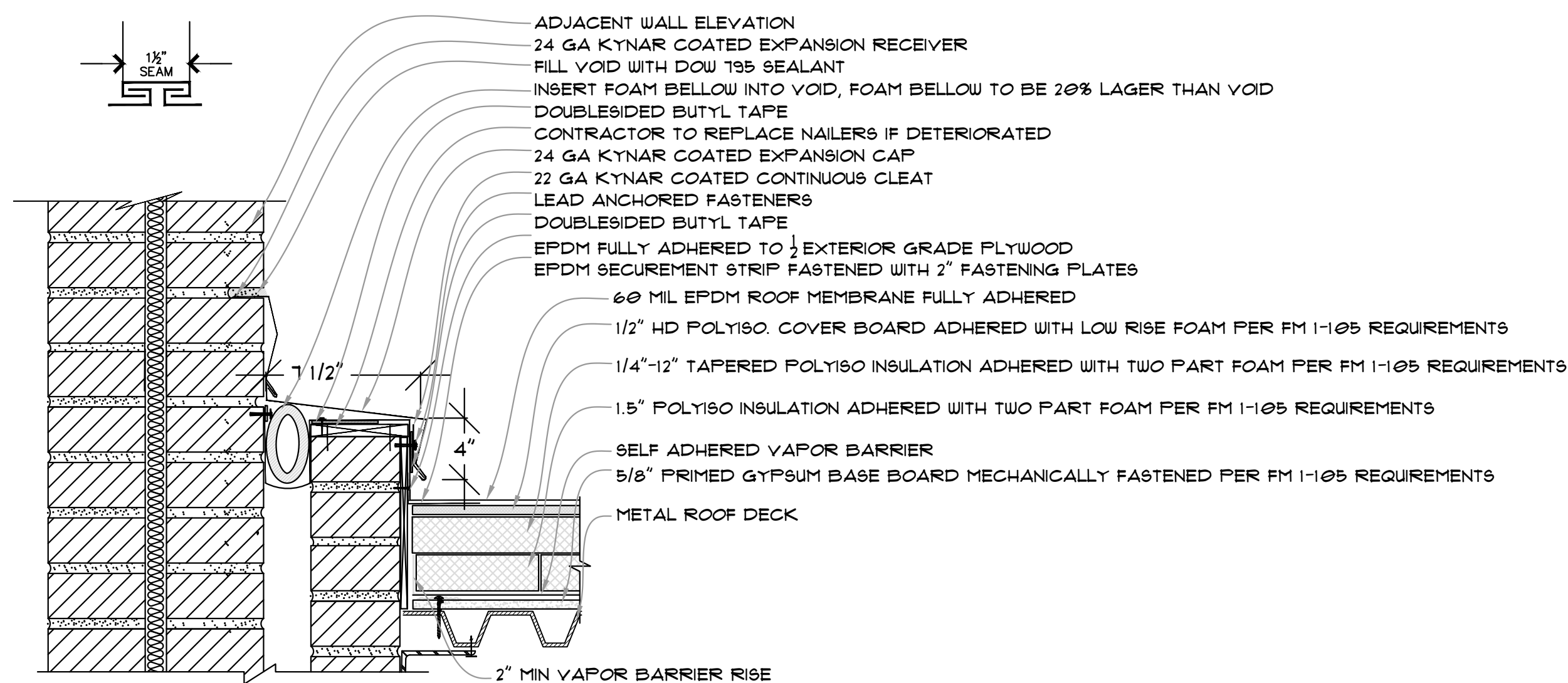
3 FIELD ASSEMBLY - SECTION 2
A507 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



4 SOL STACK
A507 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D

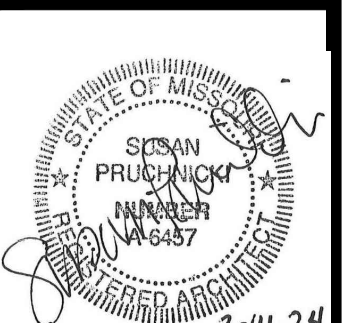
5 PIPE SUPPORT
A507 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D

6 HEATER STACK SHROUD
A507 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



7 REGLETED WALL EXPANSION
A507 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D

8 REGLETED COUNTERFLASHING
A507 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



ARCH EXP. D
36" X 24"

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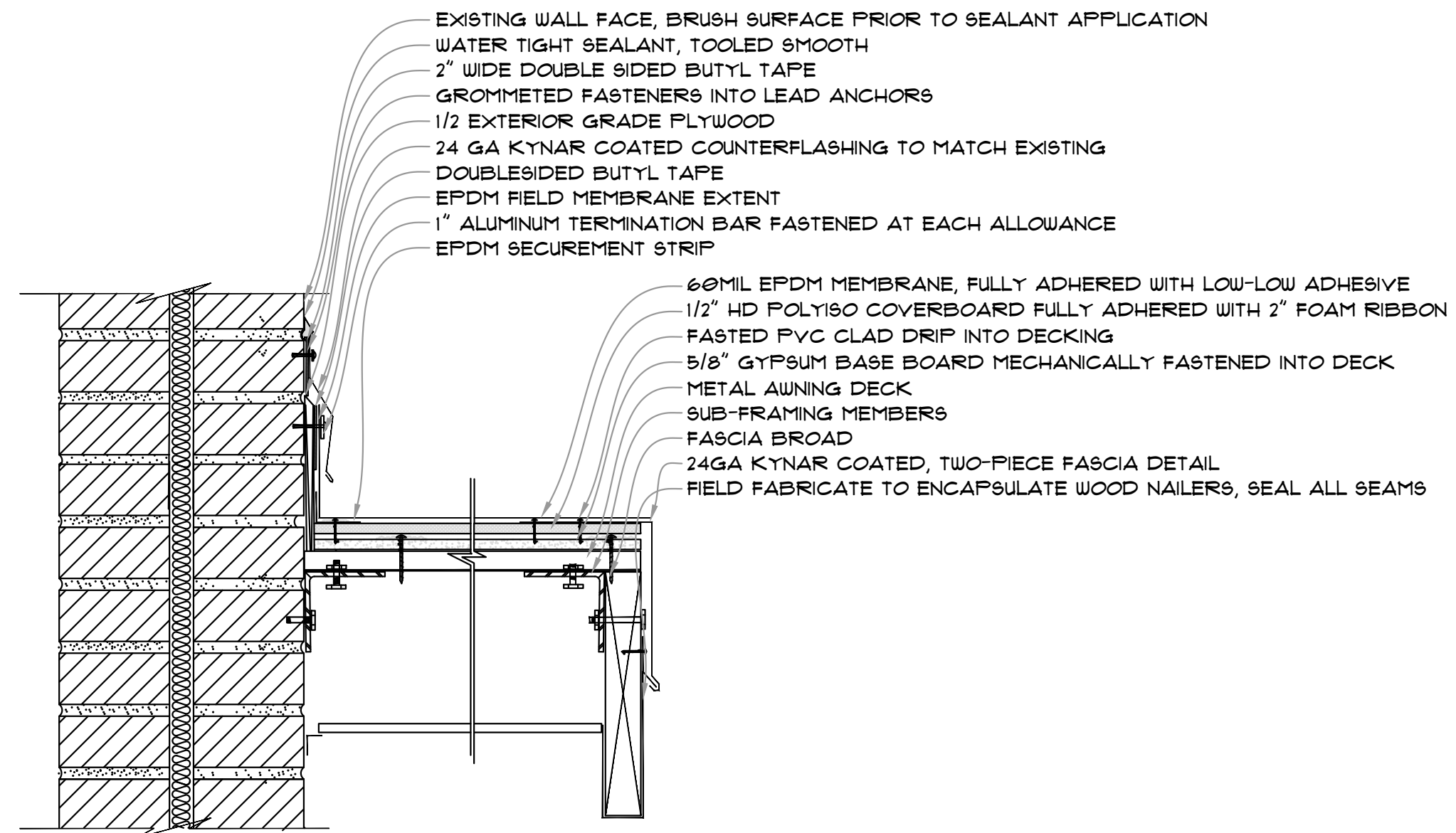
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CHECKED BY: J.J.G.

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MANCHESTER, MO 63011
(636) 391-2185

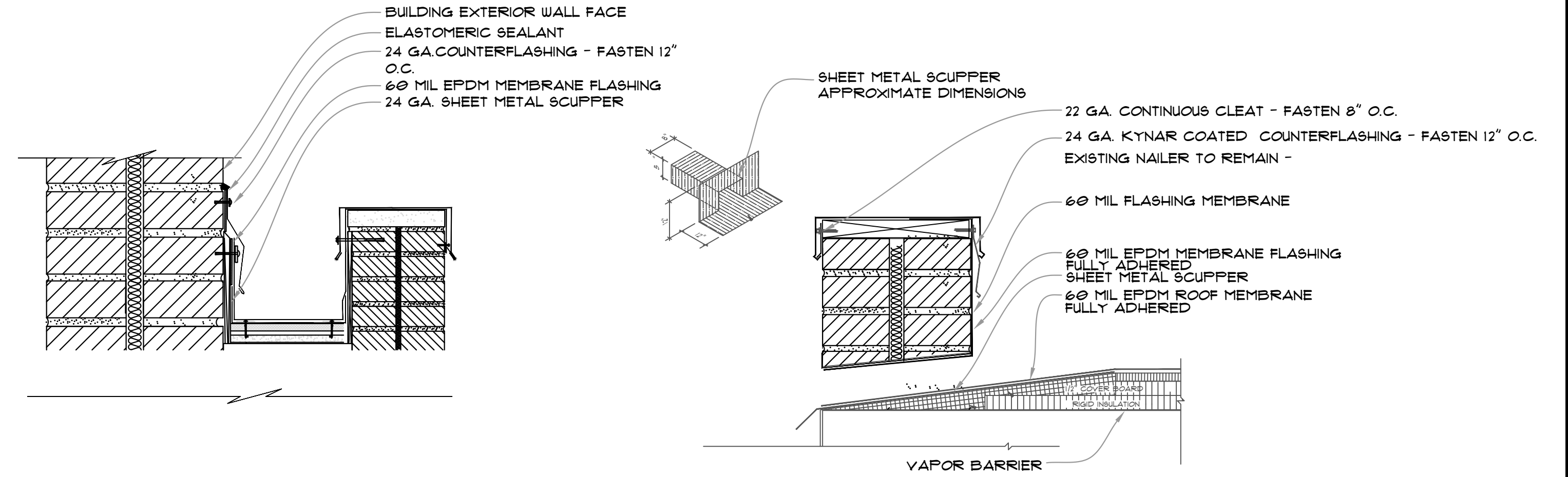
VARIOUS LOCATIONS - ROOF REPLACEMENTS
PLAZA 900 DINING FACILITY
COLUMBIA, BOONE COUNTY, MISSOURI
ROOF DETAILS

PROJECT NUMBER
CP241331

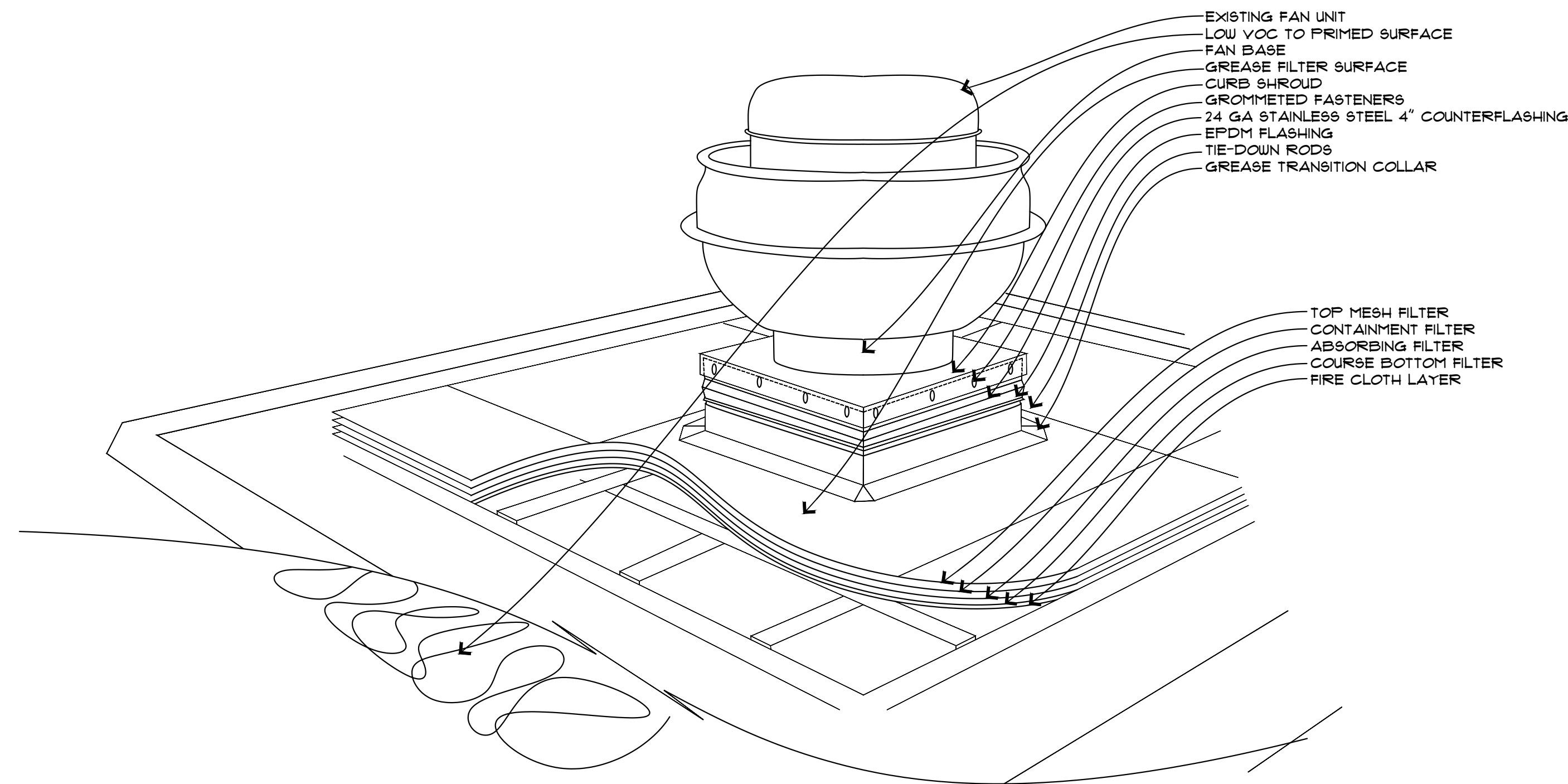
SHEET
A507



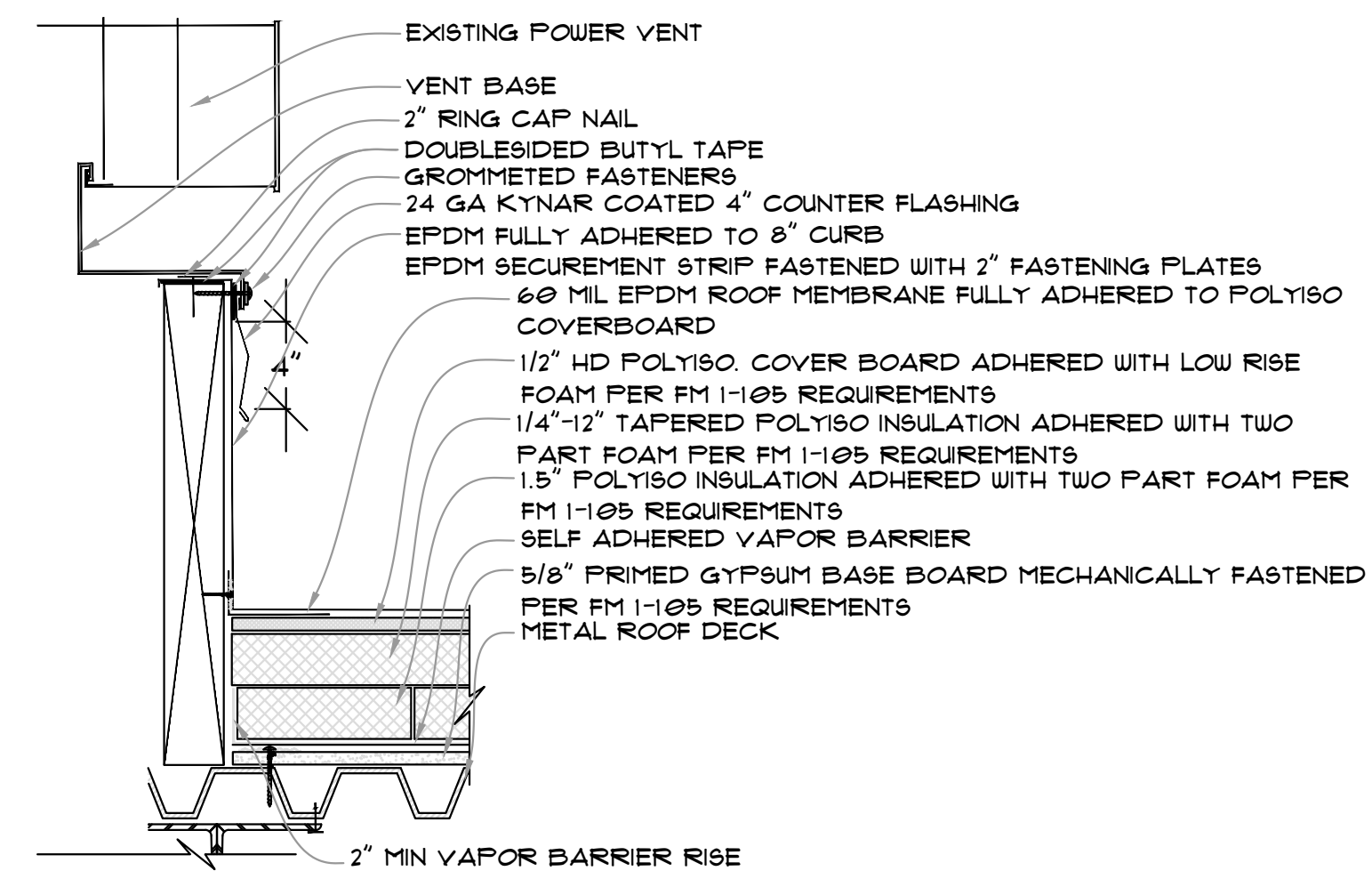
9 FRONT AWNING
 A503 SCALE: 1" = 1 1/2" - 0" - ARCH EXP D



10 ENDWALL SCUPPER
 A503 SCALE: 1" = 1 1/2" - 0" - ARCH EXP D



11 GREASE GUARD
 A503 SCALE: 1" = 1 1/2" - 0" - ARCH EXP D



12 POWER VENT FLASHING
 A503 SCALE: 1" = 1 1/2" - 0" - ARCH EXP D



ARCH EXP. D
 36" X 24"

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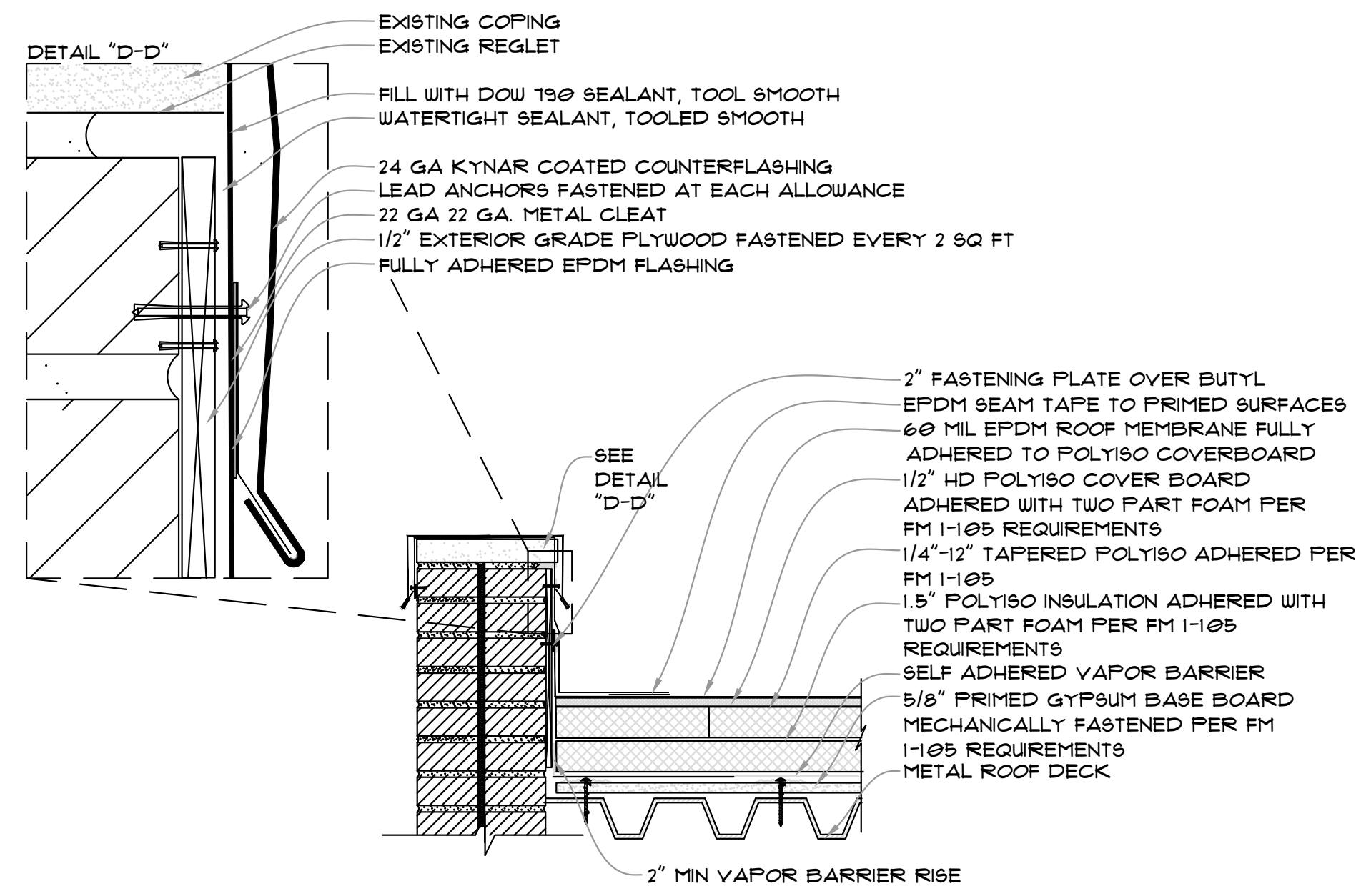
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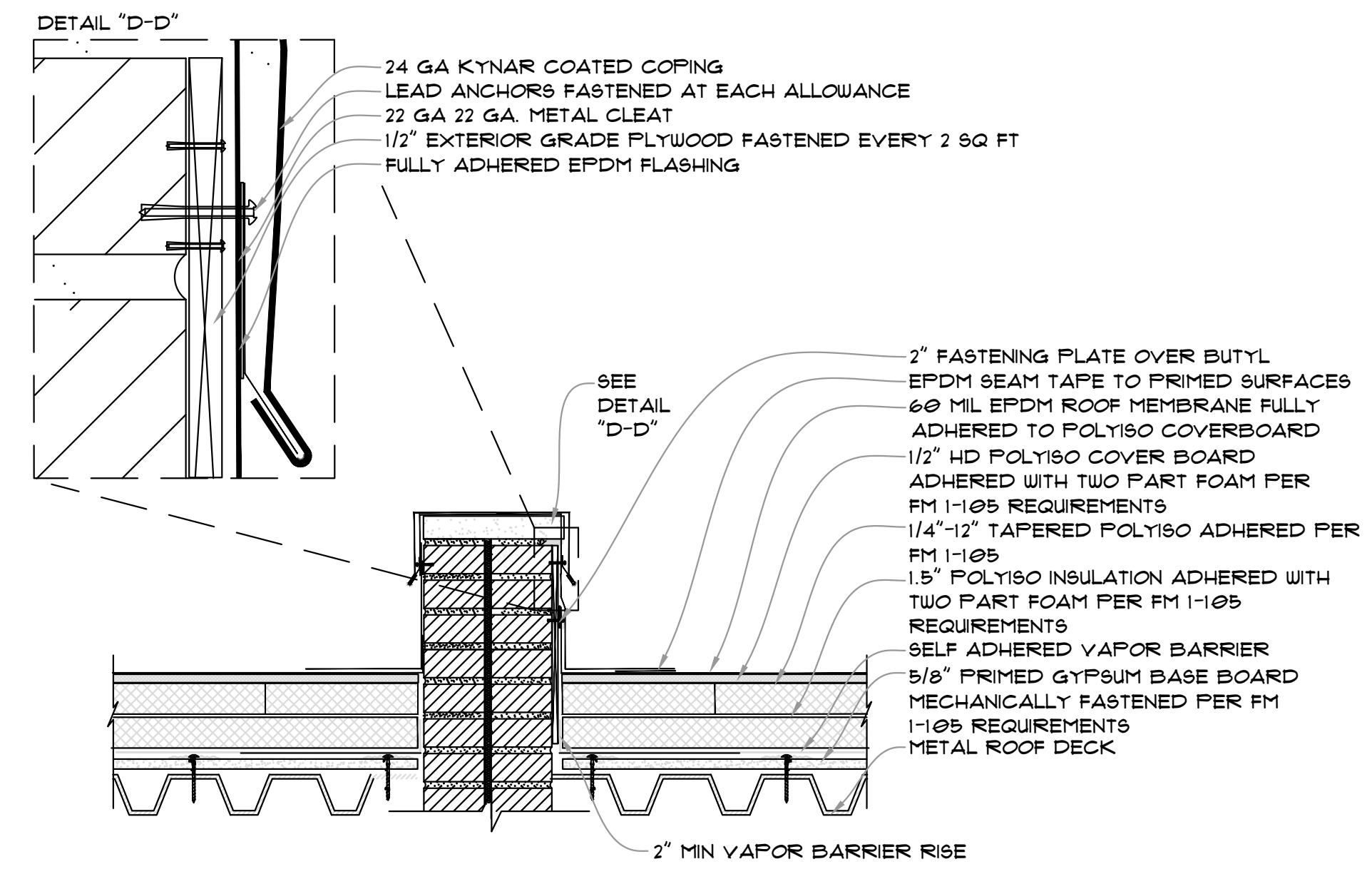
CP241331

SHEET

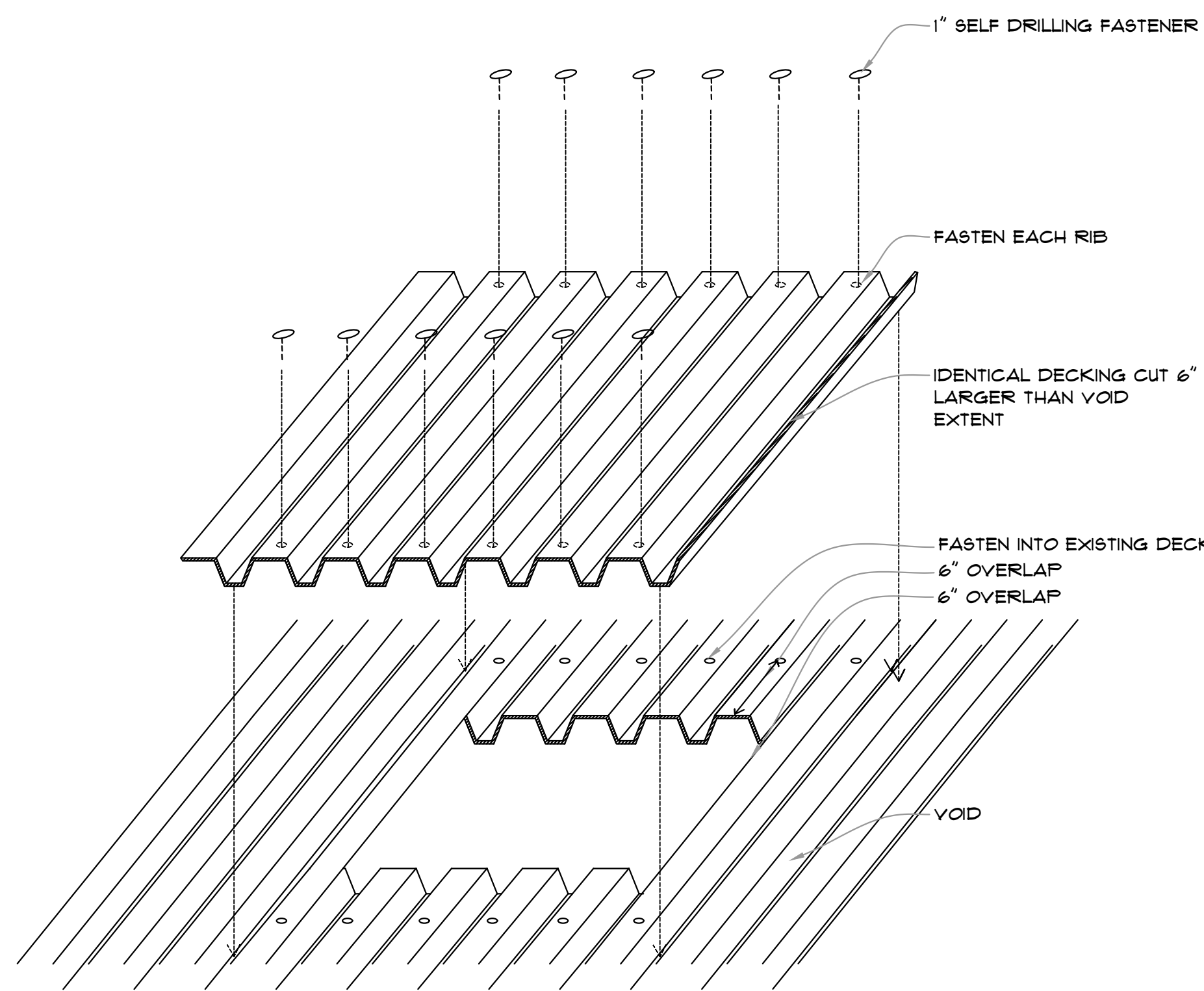
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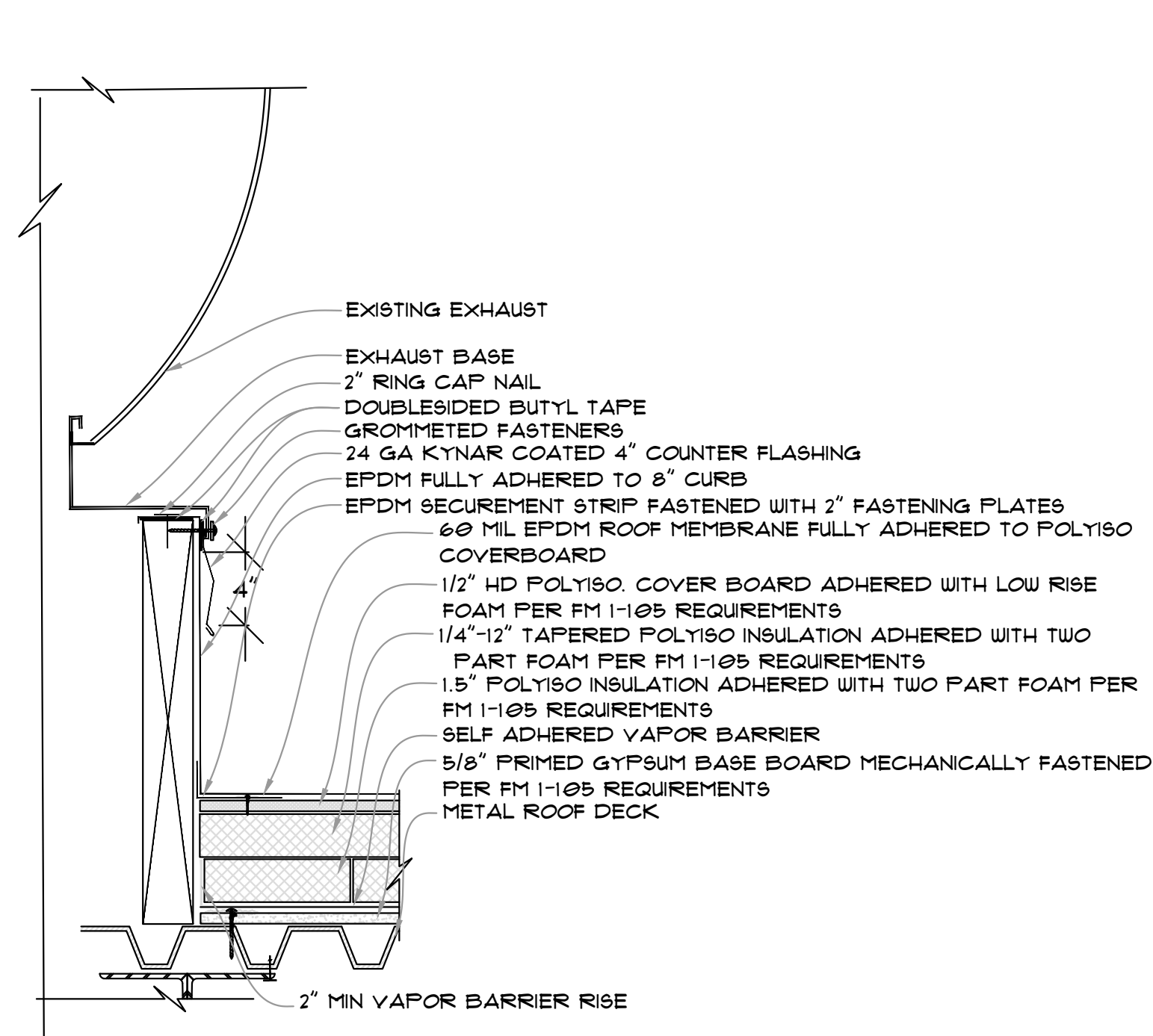
13 PARAPET ASSEMBLY
A504 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



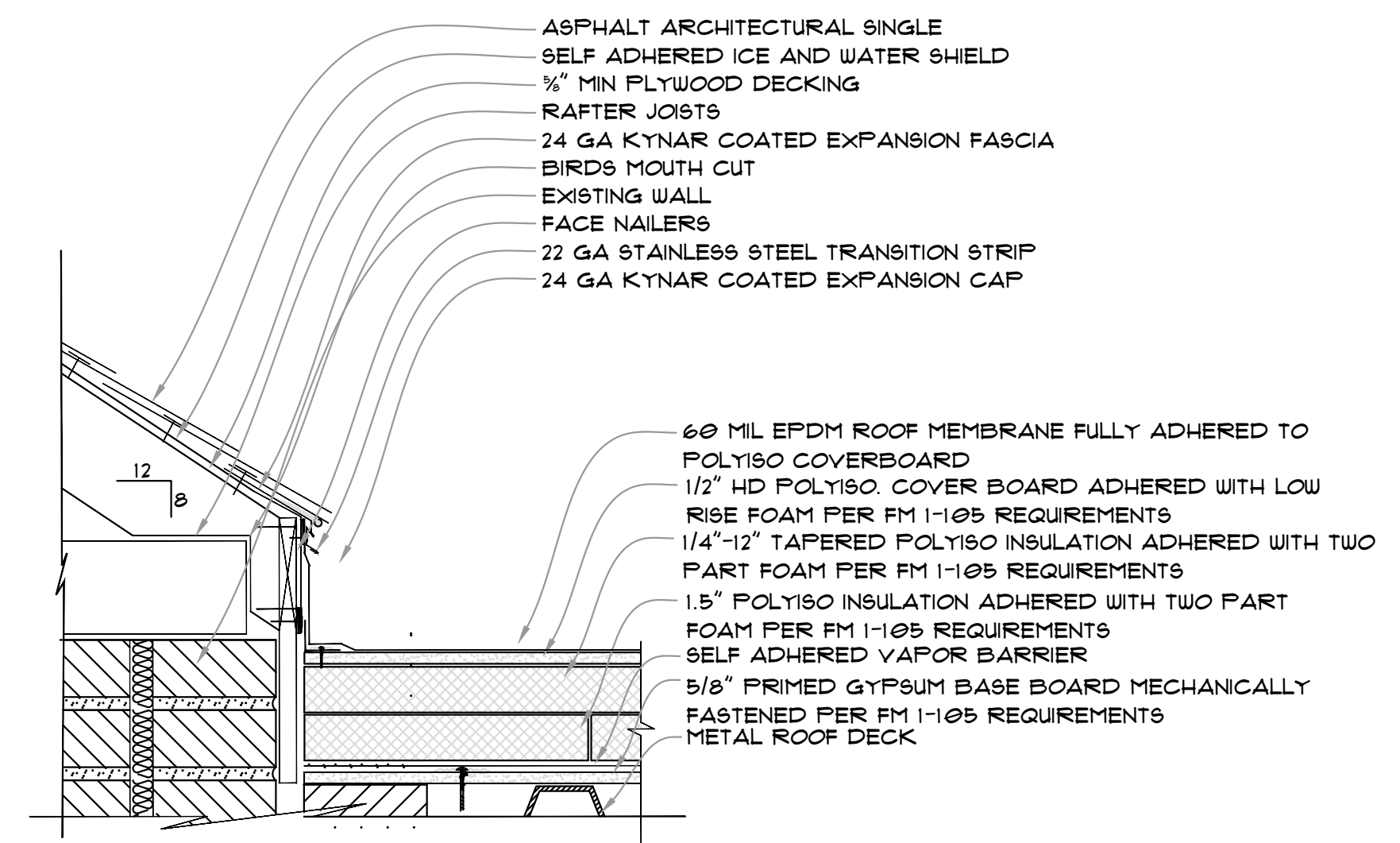
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A504 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



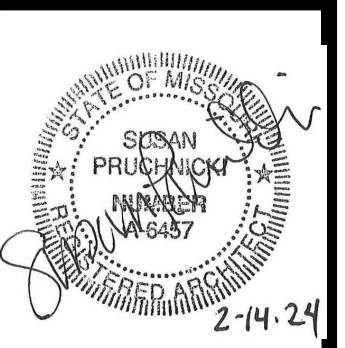
15 METAL DECKING REPAIR
A504 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



16 VENT FLASHING
A504 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



17 EAVE-TO-EPDM TRANSITION
A504 SCALE: 1" = 1 1/2' - 0" - ARCH EXP D



ARCH EXP. D
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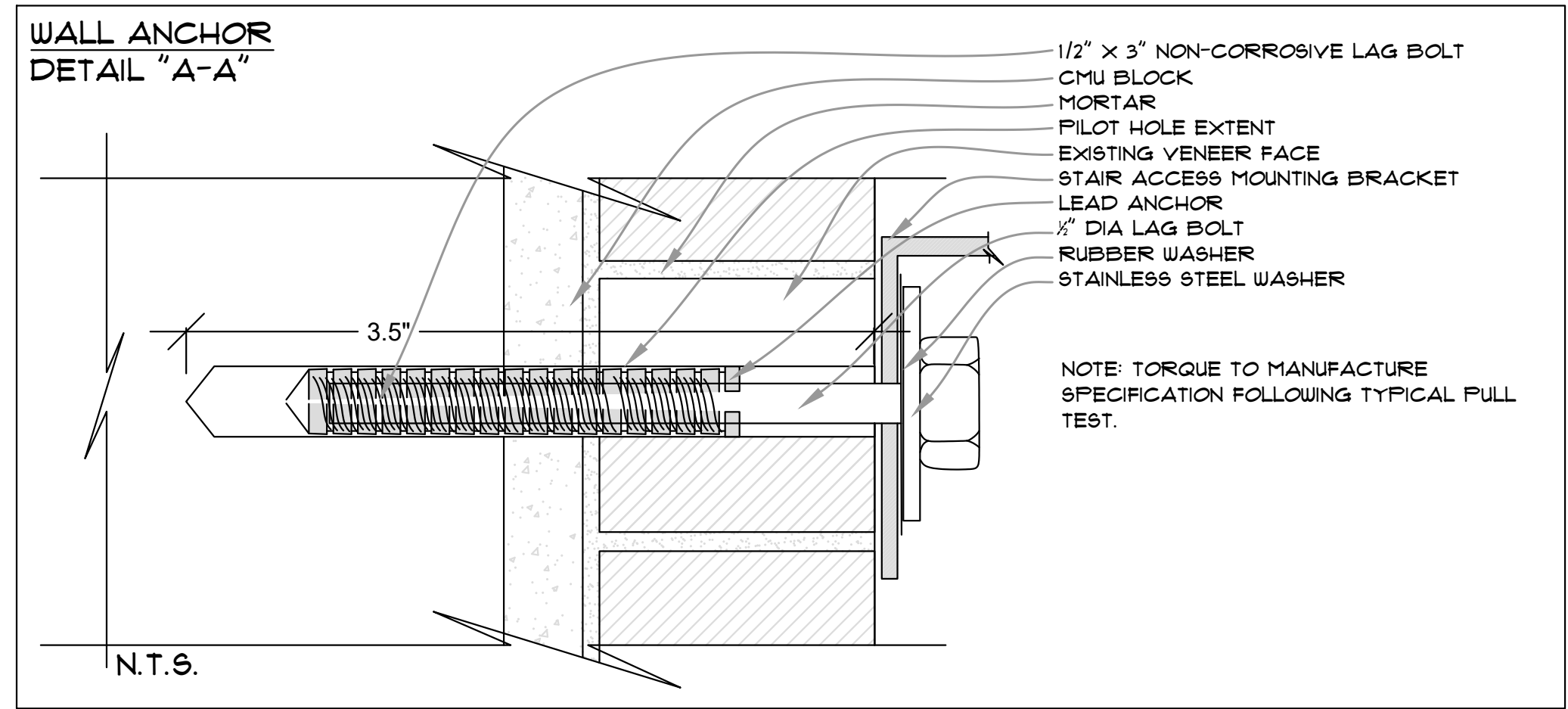
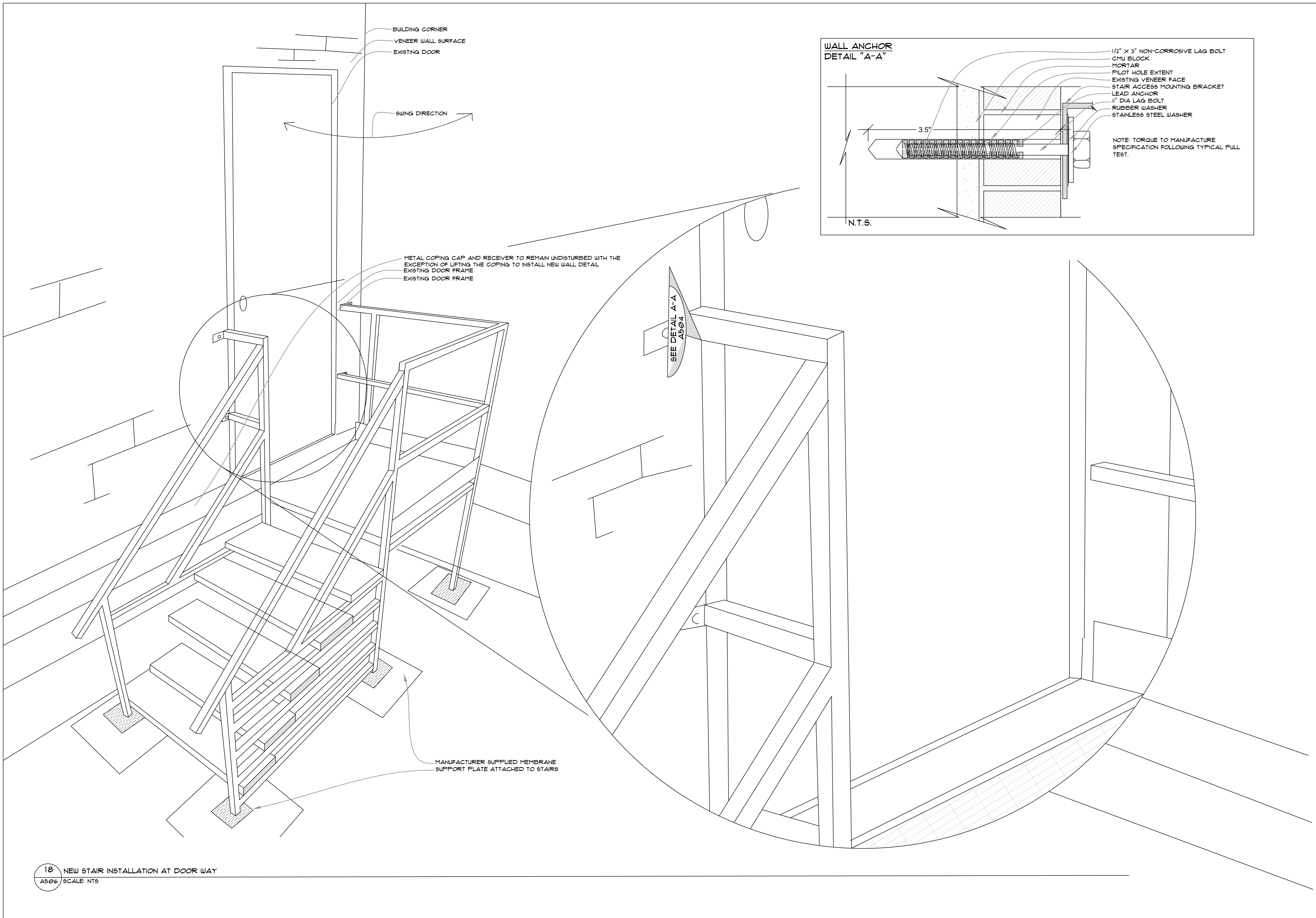
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COLUMBIA, BOONE COUNTY, MISSOURI
ROOF DETAILS

PROJECT NUMBER

CP241331

SHEET

A504



18 NEW STAIR INSTALLATION AT DOOR WAY
 AS06 SCALE: NTS



GREGORY L. LINEMAN - PE
 MISSOURI
 LICENSE # 2005001013
 12/13/24

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