

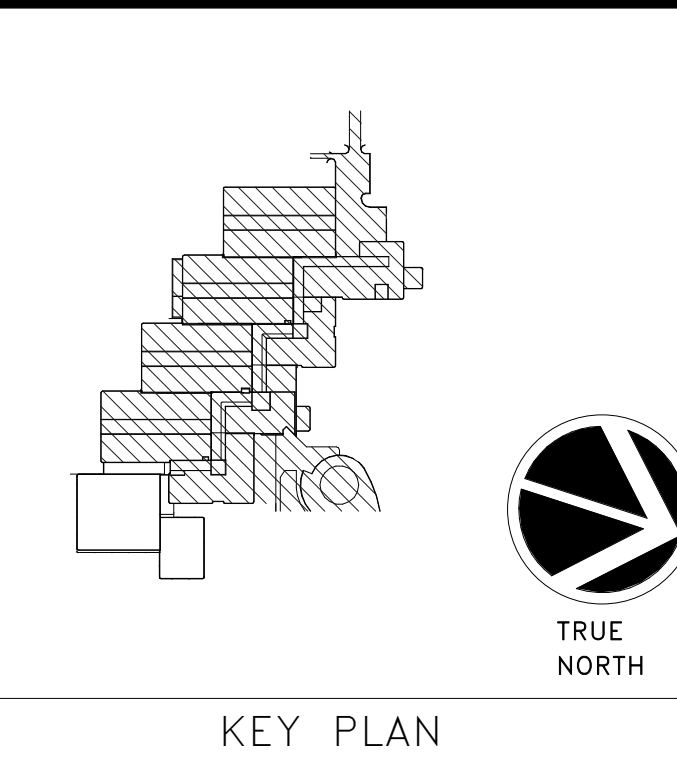
MSC: REPLACE POD 5 ROOF

MUSEUM SUPPORT CENTER (MSC)
4210 SILVER HILL ROAD
SUITLAND, MD 20560

SF PROJECT NUMBER: 2030101

architrave p.c.
420 10th Street SE
Washington DC 20003

FOR CONSTRUCTION



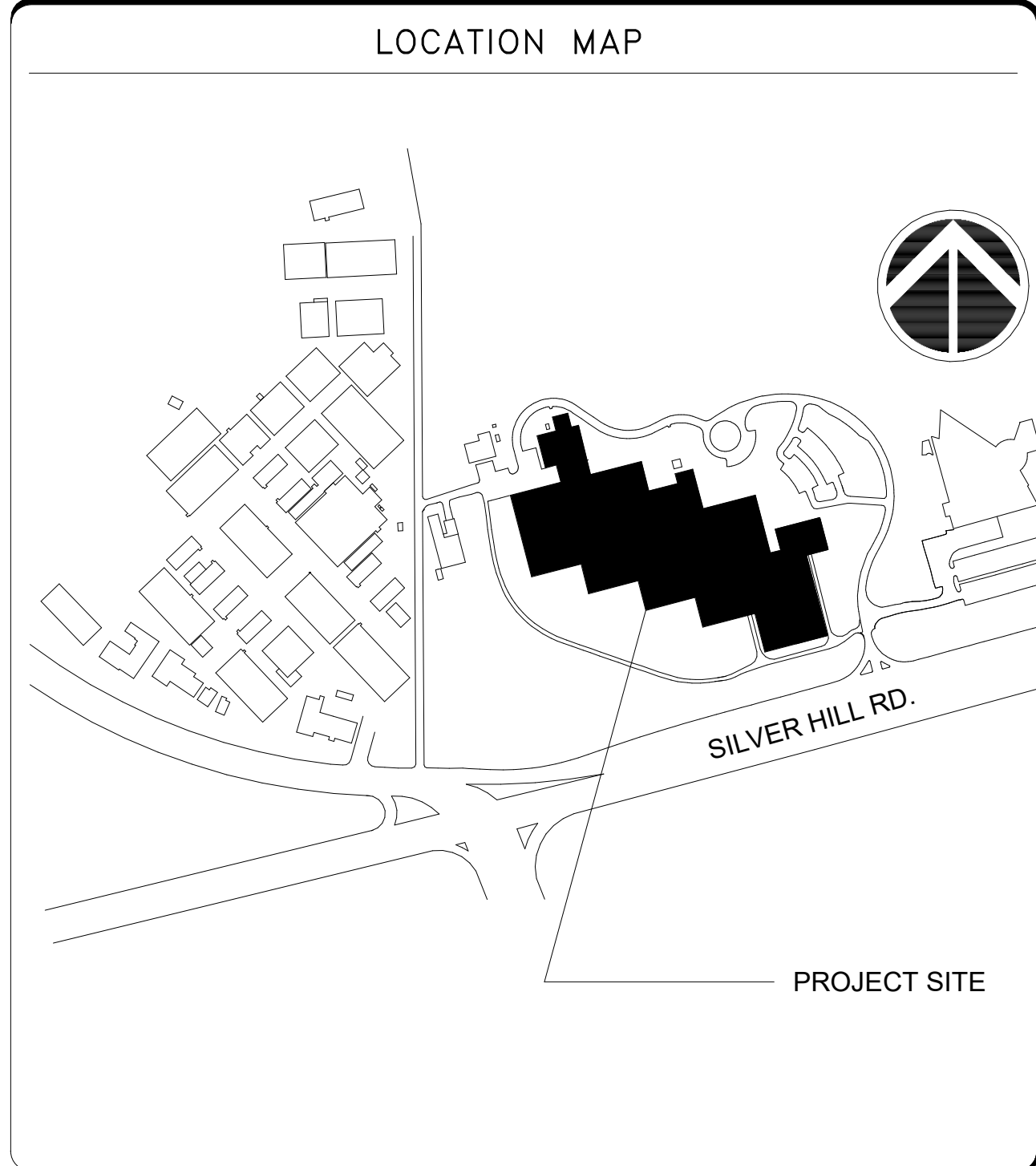
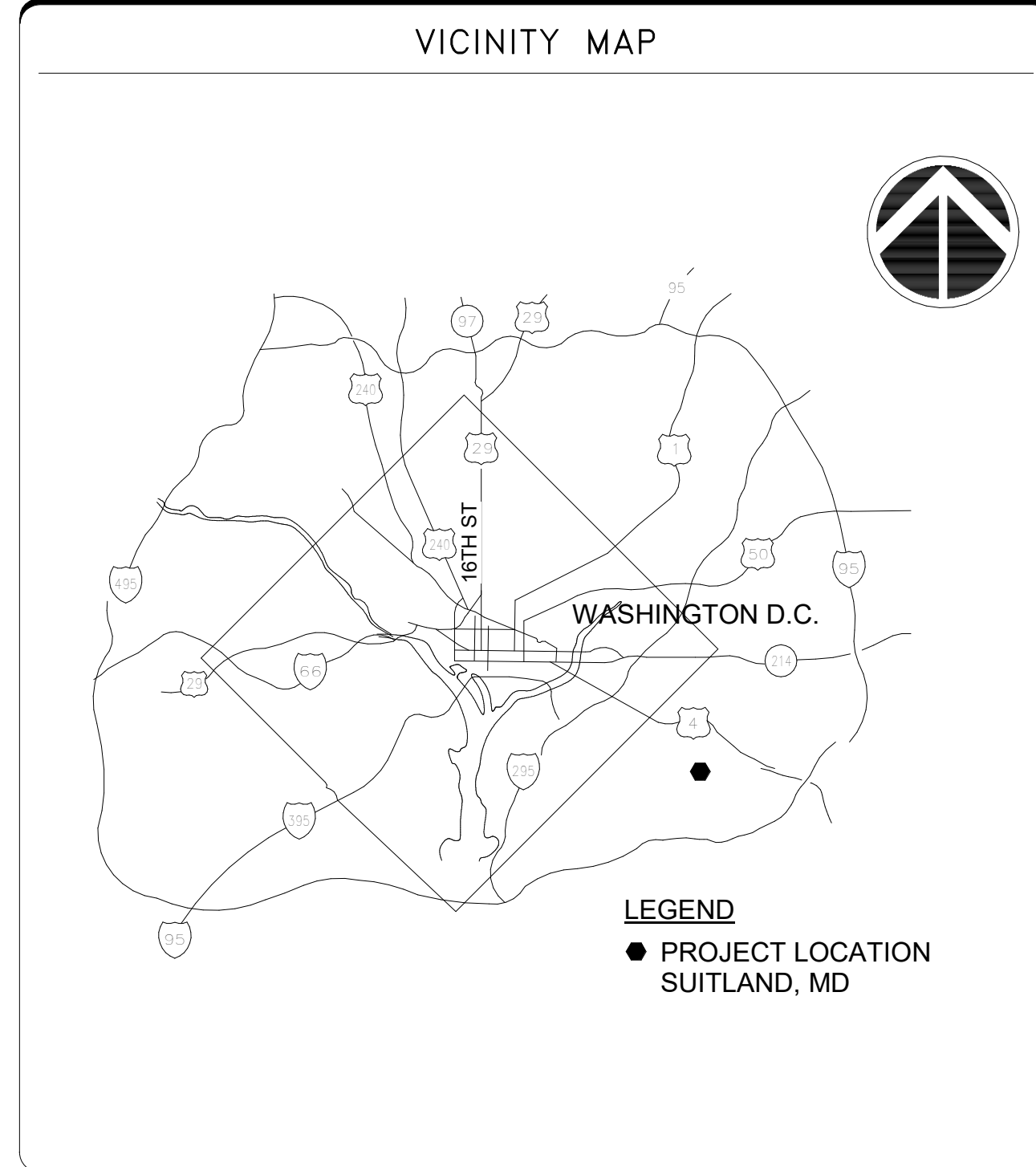
SMITHSONIAN FACILITIES
APPROVAL BLOCK

DM: _____
DESIGN CHIEF: _____
R.E.: _____
OPPM: _____
OFM&R: _____
OSHEM: _____
OPS: _____

THIS PROJECT IS APPROVED AS BEING IN CONFORMANCE WITH THE APPLICABLE PROVISIONS OF SMITHSONIAN INSTITUTION DIRECTIVE #10.

Michael J. Carron 4/24/23
MICHAEL J. CARRON, P.E., ASSOCIATE DIRECTOR, OEDC

DATE	SUBMISSION
03/15/23	Final Submission
REVISION #	REVISION DESCRIPTION



INDEX OF DRAWINGS

DRAWING NAME			DRAWING TITLE			DRAWING NAME			DRAWING TITLE		
DISCIPLINE	TYPE	SEQUENCE				DISCIPLINE	TYPE	SEQUENCE			
G		001			COVER SHEET						
A		001			NOTES, LEGENDS, AND ABBREVIATIONS						
A		002			ACCESS PLAN						
A		101RP			ROOF A, ROOF B, ROOF C & ROOF D PLAN						
A		102RP			MECHANICAL BUILDING ROOF PLAN						
A		501DT			TYPICAL DETAILS						
A		502DT			SECTION DETAILS						
A		503DT			DETAILS						
A		601SH			SCHEDULES						
E		001			ELECTRICAL SYMBOLS AND DETAILS						
ED		101DP			ROOF PLAN - DEMOLITION						
E		101RO			ROOF PLAN - NEW WORK						

Smithsonian Institution

Smithsonian Facilities
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	MSC
ADDRESS	4210 SILVER HILL ROAD SUITLAND, MD 20560
PROJECT TITLE	REPLACE POD 5 ROOF
SF PROJECT NUMBER	2030101
A/E PROJECT NUMBER	1401.52
DRAWING TITLE	COVER SHEET
WORKING STAFF	JF AM RW
SHEET NO.	G 001
1 of 12	

DRAWING ABBREVIATIONS

A LABEL
 CLASS A DOOR
 ARCHITECT/ENGINEER
 ANCHOR BOLT
 ANCHORAGE
 AUTOMATIC CONTROL SYSTEM
 ACCESS DOOR
 ACCESS PANEL
 ACOUSTICAL CEILING TILE
 AMERICANS WITH DISABILITIES ACT ADMINISTRATION
 ABOVE FINISHED FLOOR
 ABOVE FINISHED SLAB
 AGGREGATE
 AIR HANDLING UNIT
 ALTERNATE
 ALUMINUM
 ANODIZED
 APPROXIMATE
 AS REQUIRED
 ARCHITECT
 ABOVE SUSPENDED CEILING
 ASSEMBLY
 AVERAGE
 ARCHITECTURAL WOODWORK

B LABEL
 CLASS B DOOR
 BASEBOARD
 BOARD
 BOUNDARY
 BELOW FINISH FLOOR
 BUILDER'S HARDWARE
 MANUFACTURER'S ASSOCIATION
 BLOCKING
 BUILT-IN
 BULLNOSE
 BOTTOM OF
 BOTTOM
 BRACKET
 BETWEEN

C
 CAST CONCRETE
 CLASS C DOOR
 CABINET
 CATWALK
 CAVITY
 CEMENTITIOUS (BACKER) BOARD
 CONSTRUCTION DOCUMENTS
 CONTRACTOR FURNISHED
 CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED
 CONTRACTOR FURNISHED EQUIPMENT
 CORNER GUARD
 CEILING HEIGHT
 CONTROL JOINT
 CENTER LINE
 CEILING
 CEILING DIFFUSER
 CEILING HEIGHT
 COLUMN LINE
 CLOSET
 CONCRETE MASONRY UNIT
 CONDENSATE CARD READER
 CLEANOUT
 COLUMN
 COMMUNICATION
 CONCRETE
 CONCRETE FLOOR
 CONSTRUCTION CONTINUE
 COORDINATE
 CORRIDOR
 CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE
 CONTROL ROOM
 CASEWORK
 CENTER

D
 DEPTH
 CLASS D DOOR
 DOUBLE
 DEMOLITION
 DETAIL
 DIAMETER
 DIMENSION
 DIRECTION
 DISTANCE
 DOCUMENT
 DOOR

E LABEL
 CLASS E DOOR
 EACH
 EACH FACE
 EXPANSION JOINT
 EACH SIDE
 ELEVATION
 ELECTRICAL
 ELEVATOR
 ENTRANCE
 EXPANDED POLYSTYRENE BOARD (INSULATION) EXISTING TO REMAIN
 EXIST
 EQUAL
 EXPOSED
 EXTERIOR
 EXTINGUISHER

E LABEL
 CLASS E DOOR
 EACH
 EACH FACE
 EXPANSION JOINT
 EACH SIDE
 ELEVATION
 ELECTRICAL
 ELEVATOR
 ENTRANCE
 EXPANDED POLYSTYRENE BOARD (INSULATION) EXISTING TO REMAIN
 EXIST
 EQUAL
 EXPOSED
 EXTERIOR
 EXTINGUISHER

F
 FIRE ALARM
 FIRE ALARM ANNUNCIATOR PANEL
 FIRE EXTINGUISHER
 FIRE EXTINGUISHER CABINET
 FEDERAL
 FINISH FACE
 FINISH FLOOR ELEVATION
 FIRE HOSE
 FULL HEIGHT PARTITION
 FINISH
 FINISH BOTH SIDES
 FINISH FLOOR
 FIXTURE
 FOLDING
 FLEXIBLE
 FLUSH MOUNT
 FLOOR
 FIRE RESISTANT
 FIBER REINFORCED
 FRAMING
 FIBERGLASS REINFORCED PLASTICS INSTITUTE
 FEDERAL SPECIFICATION
 FASTENER
 FEET
 FOOTING

G
 NATURAL GAS
 GALVANIZED
 GRAB BAR
 GOVERNMENT FURNISHED
 CONTRACTOR INSTALLED
 GOVERNMENT FURNISHED
 GOVERNMENT INSTALLED
 GLASS-FIBER REINFORCED CONCRETE
 GLASS-FIBER REINFORCED EQUIPMENT
 GLAZING
 GYPSUM WALL BOARD
 GYPSUM

H
 HOSE BIBB
 HARDWARE
 HDW
 HIGH EFFICIENCY PARTICULATE AIR (FILTER)
 HOLLOW METAL
 HOLLOW METAL DOOR
 HORIZONTAL
 HEIGHT

I
 INTERNATIONAL BUILDING CODE
 INSULATION
 INTERIOR
 IN LIEU OF
 JANITOR
 KEYPAD
 KICKPLATE
 LAMINATE
 POUND
 LINEAR FEET (FOOT)
 LIGHT GAUGE METAL FRAME
 LEFT HAND
 LEFT HAND REVERSE
 LINEAR
 LOCATION
 LIGHT

O
 OVERALL
 OBJECTS, ARTIFACTS AND EXHIBITS
 ON CENTER
 OUTSIDE DIAMETER
 OPENING
 OPPOSITE
 OPERABLE
 ORIGINAL

P
 PARTICLEBOARD
 PERCENT
 PERFORATED
 PERIMETER
 PHASE
 PLASTIC LAMINATE
 PLASTER
 PLYWOOD
 PANEL
 POLYMETHACRYLATE
 POLYMETHYL METHACRYLATE
 POLYISOCYANURATE
 PUSH/PULL PLATE
 PAIR
 POUNDS PER SQUARE FOOT
 POUNDS PER SQUARE INCH
 PAINT
 PARTITION
 POINTS
 POWER

Q
 QUANTITY
 RESILIENT BASE
 SELF-ADHERED RUBBERIZED ASPHALT SHEET MEMBRANE
 RUBBER
 REINFORCED CONCRETE
 RECEPT CEILING PLAN
 RECESSED
 REFERENCE
 REMOVABLE
 REPAIR
 REPLACE
 REQUIRE
 REQUIRED
 RESILIENT
 RESILIENT FLOORING
 RIGHT HAND REVERSE
 RIGHT HAND
 ROOM
 ROUGH OPENING
 REVEAL

S
 SCHEDULE
 SMOKE DETECTOR
 SQUARE FOOT (FEET)
 SINGLE
 SMITHSONIAN INSTITUTION
 SIMILAR
 SEALANT
 SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION
 SP ELSPOT ELEVATION
 SPECIFICATION
 SQUARE
 SQUARE INCH
 SQUARE YARD
 STAINLESS STEEL
 STAIRS
 STANDARD
 STORAGE
 SUBFLOOR
 STEEL
 SYSTEM

T
 TEMPORARY
 TERRAZZO
 TOP OF FINISH FLOOR
 THICKNESS
 TRUE NORTH
 TOP OF SLAB
 TRANSOM

U
 UNLESS NOTED OTHERWISE
 VESTIBULE
 WOOD

NUMBERING CODES:
 DISCIPLINE CODES (FOR BOTH MODEL AND SHEET FILES)
 A - ARCHITECTURAL
 E - ELECTRICAL
 F - FIRE PROTECTION
 G - GENERAL
 M - MECHANICAL
 P - PLUMBING
 Q - EQUIPMENT
 S - STRUCTURAL
 T - TELECOMMUNICATIONS
 X - OTHER DISCIPLINES
 Z - CONTRACTOR/SHOP DRAWINGS

DISCIPLINE CODES (FOR BOTH MODEL AND SHEET FILES SMITHSONIAN ONLY)
 EX - EXHIBITS
 SC - SECURITY
 SS - SPECIAL - SYSTEMS

SHEET TYPE DESIGNATORS (FOR SHEET FILES ONLY)
 0 - GENERAL - (SYMBOLS, NOTES, ETC.)
 1 - PLANS
 2 - ELEVATIONS
 3 - SECTIONS
 4 - LARGE SCALE (PLANS, ELEVATIONS, ETC.)
 5 - DETAILS
 6 - SCHEDULES AND DIAGRAMS
 7 - USER DEFINED
 8 - USER DEFINED
 9 - 3D VIEWS

TELECOMMUNICATIONS
 DP - DATA
 TP - TELEPHONE

DRAWING TYPE CODES (FOR MODEL FILES, SPECIFIC TO ALL DISCIPLINES)
 FP - FLOOR PLAN
 DP - DEMOLITION PLAN
 SP - SITE PLAN
 QP - EQUIPMENT PLAN
 XP - EXISTING PLAN
 RO - ROOF PLAN
 EL - ELEVATION
 SC - SECTION
 DT - DETAIL
 SH - SCHEDULE
 3D - ISOMETRIC/3D
 DG - DIAGRAMS

DRAWING TYPE CODES (DISCIPLINE SPECIFIC)
 GENERAL
 BS - BORDER SHEET
 KP - KEY PLAN

ARCHITECTURAL/INTERIORS
 EP - ENLARGED PLAN
 CP - CEILING PLAN
 RP - FURNITURE PLAN
 NP - FINISH PLANS

CIVIL
 EP - ENVIRONMENTAL PLAN
 GP - GRADING PLAN
 RP - ROAD/TOPOGRAPHIC PLAN
 SV - SURVEY
 UP - UTILITY PLAN

STRUCTURAL
 FP - FRAMING PLAN
 NP - FOUNDATION PLAN

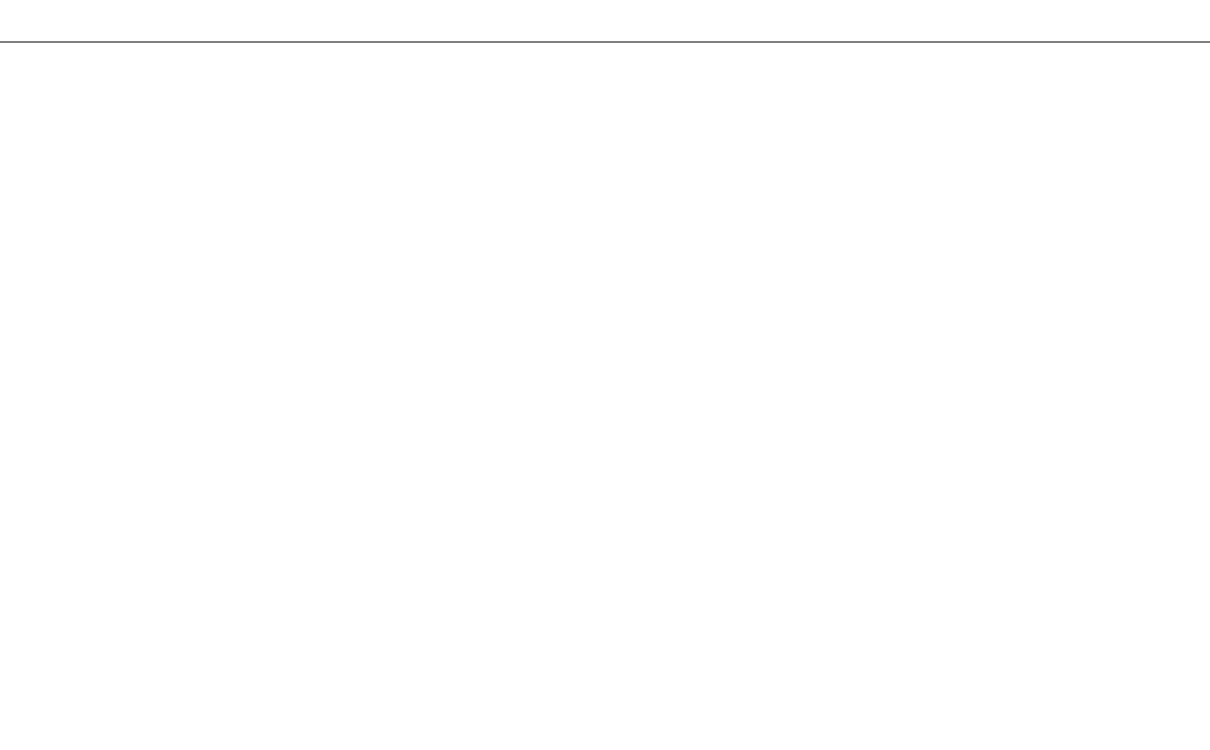
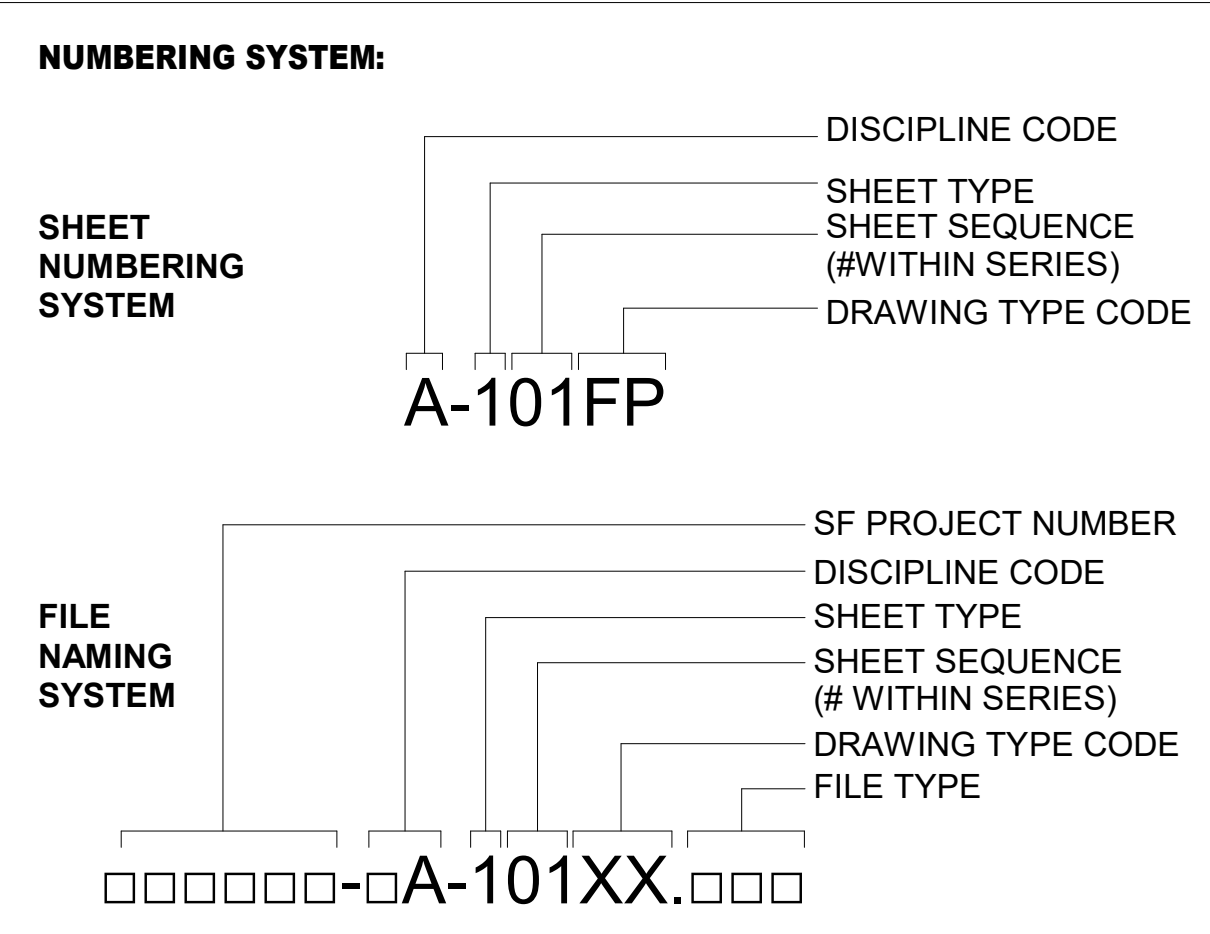
FIRE - PROTECTION
 VP - EVACUATION PLAN
 KP - SPRINKLER PLAN

MECHANICAL
 CP - CONTROL PLAN
 HP - HVAC - DUCTWORK PLAN
 PP - PIPING PLAN

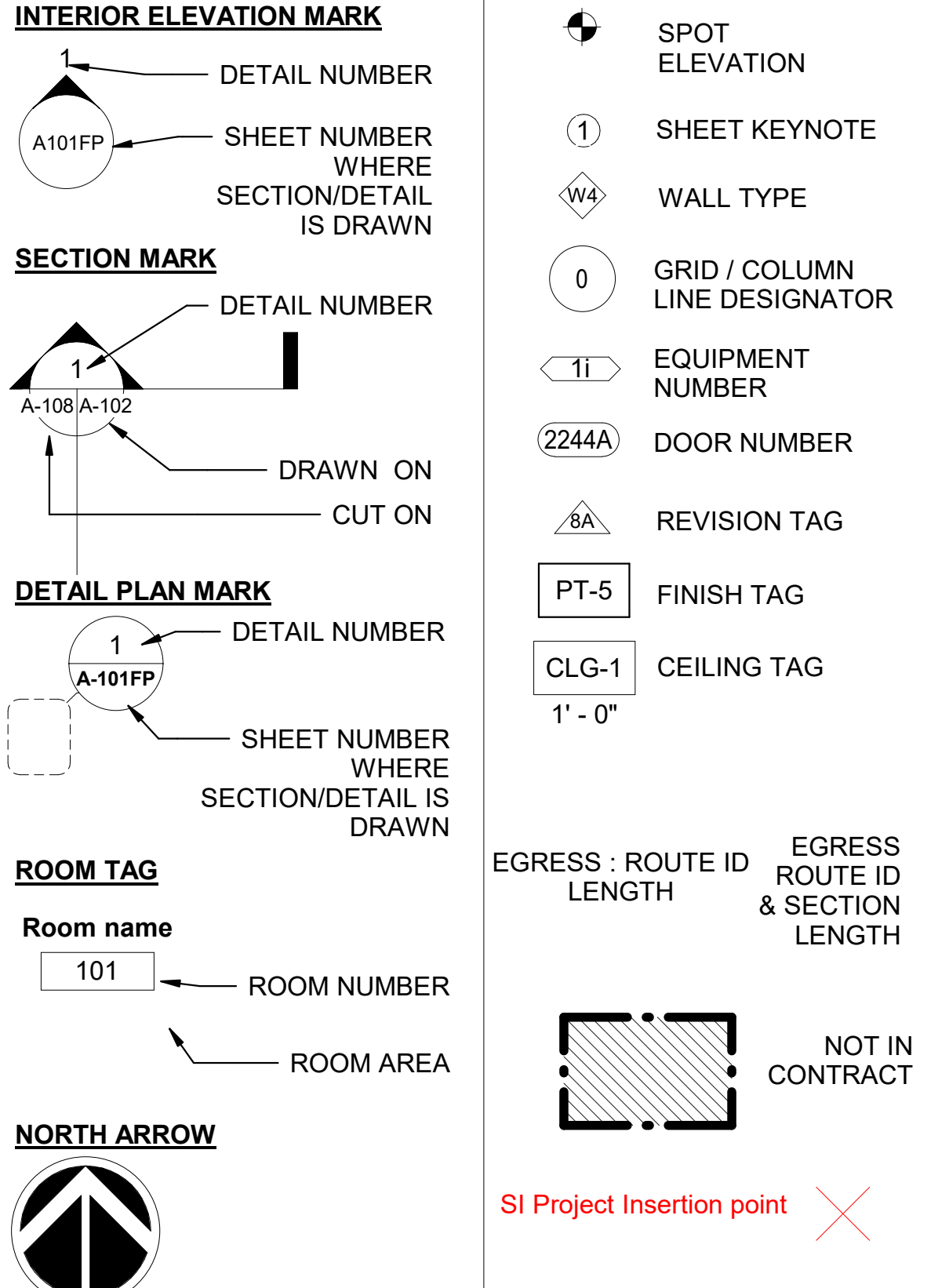
PLUMBING
 PP - PLUMBING PLAN

ELECTRICAL
 CP - COMMUNICATION
 GP - GROUNDING
 LP - LIGHTING
 PP - POWER

INDEX OF DRAWINGS

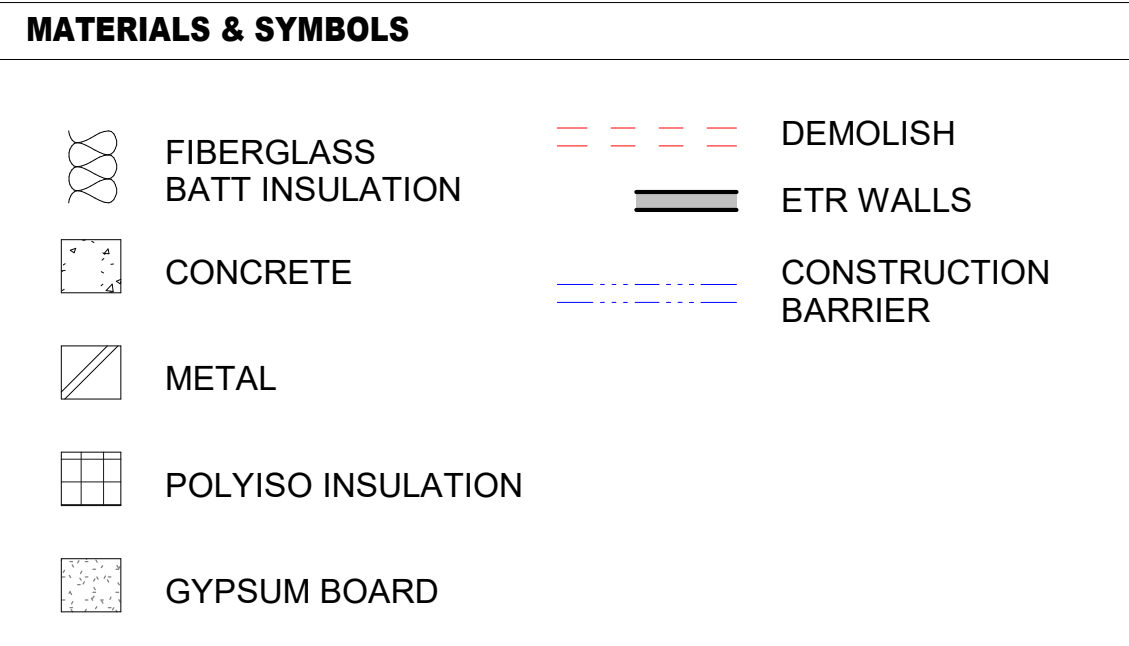


ANNOTATION CALLOUTS/DRAWING SYMBOLS



INDICATES EXISTING CONDITIONS PHOTO LOCATION
 SEE SPECIFICATION SECTION 022000 FOR PHOTOGRAPHS

LEGEND



DEFINITIONS

- A. DEMO / REMOVE: DETACH ITEMS FROM EXISTING CONSTRUCTION AND LEGALLY DISPOSE OF OFF-SITE.
- B. REMOVE AND SALVAGE: DETACH ITEMS FROM EXISTING CONSTRUCTION AND DELIVER THEM WHERE DIRECTED BY COTR.
- C. REMOVE AND REINSTALL: DETACH ITEMS FROM EXISTING CONSTRUCTION, PREPARE FOR REUSE, AND REINSTALL WHERE INDICATED.
- D. FURNISH: SUPPLY, DELIVER TO PROJECT SITE, AND UNLOAD.
- E. INSTALL: UNLOAD, ASSEMBLE, AND ERECT, COMPLETE AND READY FOR THE INTENDED USE.
- F. PROVIDE: FURNISH AND INSTALL.
- G. RECYCLE: DETACH ITEM FROM EXISTING CONSTRUCTION AND DISPOSE OF IT AT APPROVED COLLECTION SITE. DO NOT REUSE ON-SITE UNLESS SPECIFICALLY DIRECTED TO DO SO.

architrave p.c.
 420 10th Street SE
 Washington DC 20003
FOR CONSTRUCTION

ARCHITECTURAL REGISTRATION BOARD
 6970 R
 STATE OF MARYLAND
 ALAN W. WELLS

KEY PLAN

BUILDING SUMMARY

PROJECT INFORMATION
 PROJECT NAME: REPLACE POD 5 ROOF
 ADDRESS: 4210 SILVER HILL ROAD
 SUITLAND, MD 20660
 PROPOSED USE OF SPACE: STORAGE

APPLICABLE CODES
 - BUILDING CODE: IBC 2021 - LIFE SAFETY CODE: NFPA 101, 2021
 - MECHANICAL: IMC 2021 - ACCESSIBILITY CODE: SCAAD (ADAAG & ABA)
 - PLUMBING: IPC 2021
 - ELECTRICAL: NFPA 70 2021 - ENERGY CODE: IECC 2021
 - FIRE CODE: NFPA 13 & NFPA 72 2019 & IFC 2021

FIRE PROTECTION SYSTEMS
 THE BUILDING IS FULLY SPRINKLERED

GRAPHIC SCALE(S)

DATE	03/15/23
REVISION	Final Submission

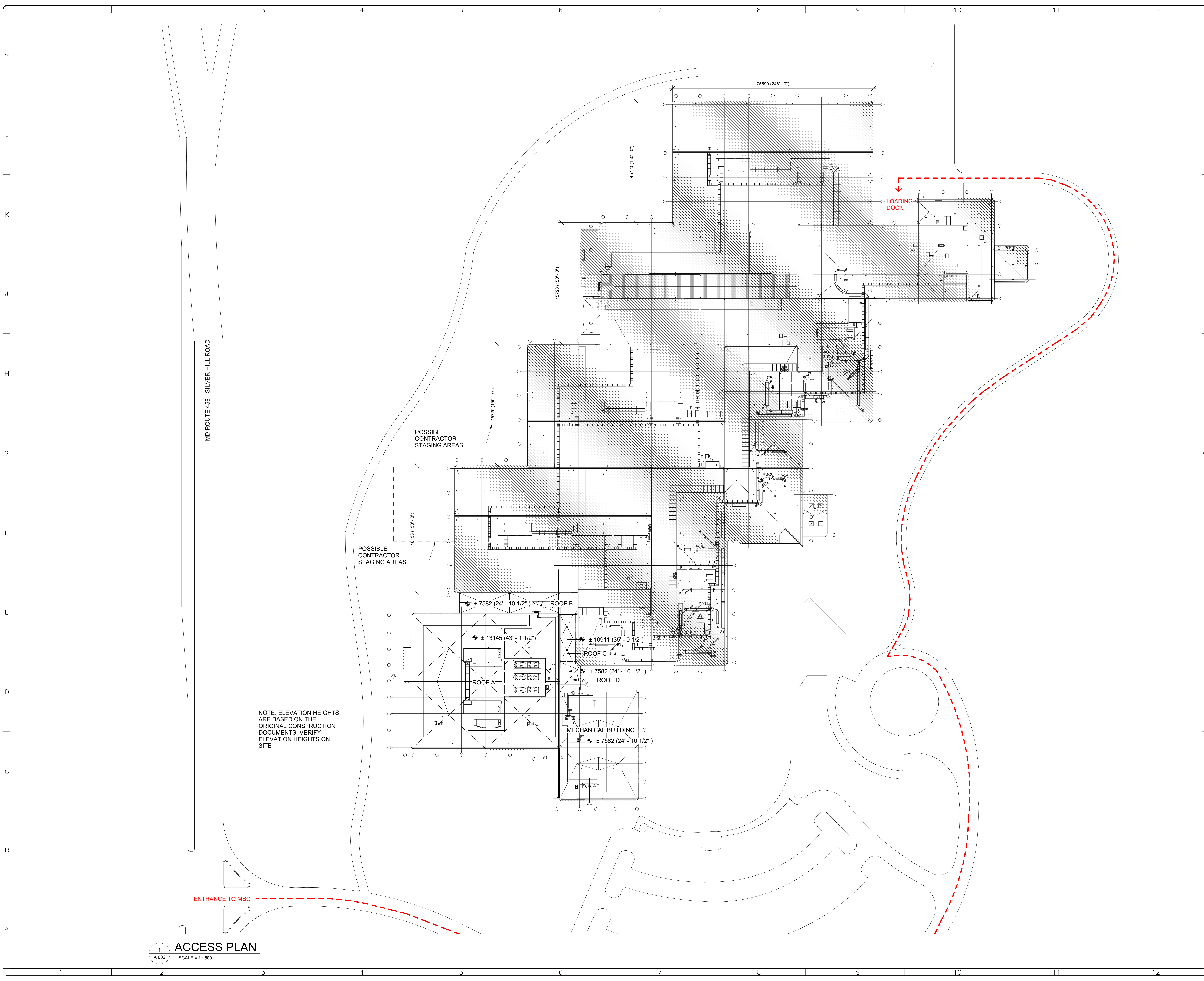
ROOFING GENERAL NOTES

- PROVIDE MIN 102 WIDE MEMBRANE REINFORCEMENT STRIP APPLIED OVER ALL JOINTS, ANGLE CHANGES AND VOIDS. FILL JOINTS AND VOIDS W/MANUFACTURER RECOMMENDED PATCHING MORTAR OR FILLER PRIOR TO APPLICATION OF THE MEMBRANE STRIPS (ALL FLASHING LOCATIONS) AND THE FIELD MEMBRANE.
- "FIELD MEMBRANE" CONSISTS OF:
 - 2 COATS LIQUID APPLIED PMA MEMBRANE WITH A POLYESTER FLEECE REINFORCING LAYER IN-BETWEEN
 - FINISH COAT - QUARTZ-SILICA TEXTURED PMMA MEMBRANE
- "FLASHING MEMBRANE" CONSISTS OF:
 - 2 COATS LIQUID APPLIED PMA MEMBRANE WITH A POLYESTER FLEECE REINFORCING LAYER IN-BETWEEN
 - FINISH COAT - QUARTZ-SILICA TEXTURED PMMA MEMBRANE
- APPLY ALL FIELD MEMBRANE AND FLASHING MEMBRANE OVER A SELF-ADHERED BASE PLY.

Smithsonian Institution
 Smithsonian Facilities
 600 Maryland Avenue S.W. Suite 5001
 Washington, DC 20024-2520

BUILDING NAME	MSC
ADDRESS	4210 SILVER HILL ROAD SUITLAND, MD 20660
PROJECT TITLE	REPLACE POD 5 ROOF
SF PROJECT NUMBER	2030101
A/E PROJECT NUMBER	1401.52
DRAWING TITLE	NOTES, LEGENDS, AND ABBREVIATIONS
WORKING STAFF	JF AM RW
SHEET NO.	A 001
2 of 12	

4/20/2023 4:03:55 PM
A 002 BY Approver Issue Date Final Submission



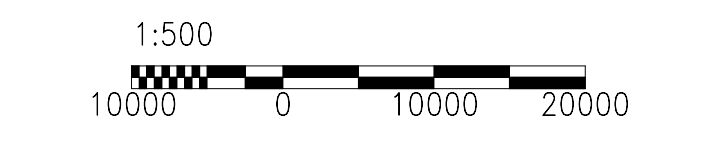
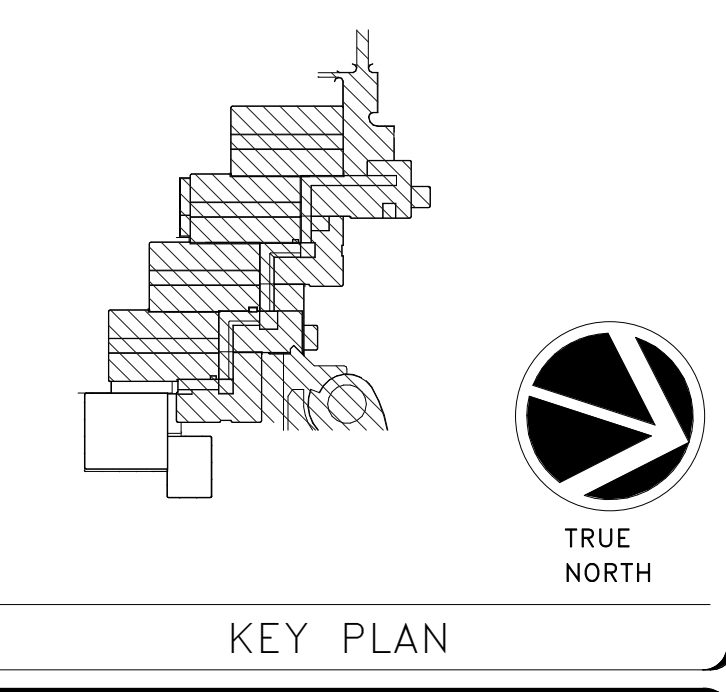
NOTE: ELEVATION HEIGHTS ARE BASED ON THE ORIGINAL CONSTRUCTION DOCUMENTS. VERIFY ELEVATION HEIGHTS ON SITE

MD ROUTE 458 - SILVER HILL ROAD

1
A 002
ACCESS PLAN
SCALE = 1" = 50'

architrove p.c.
420 10th Street SE
Washington DC 20003

FOR CONSTRUCTION

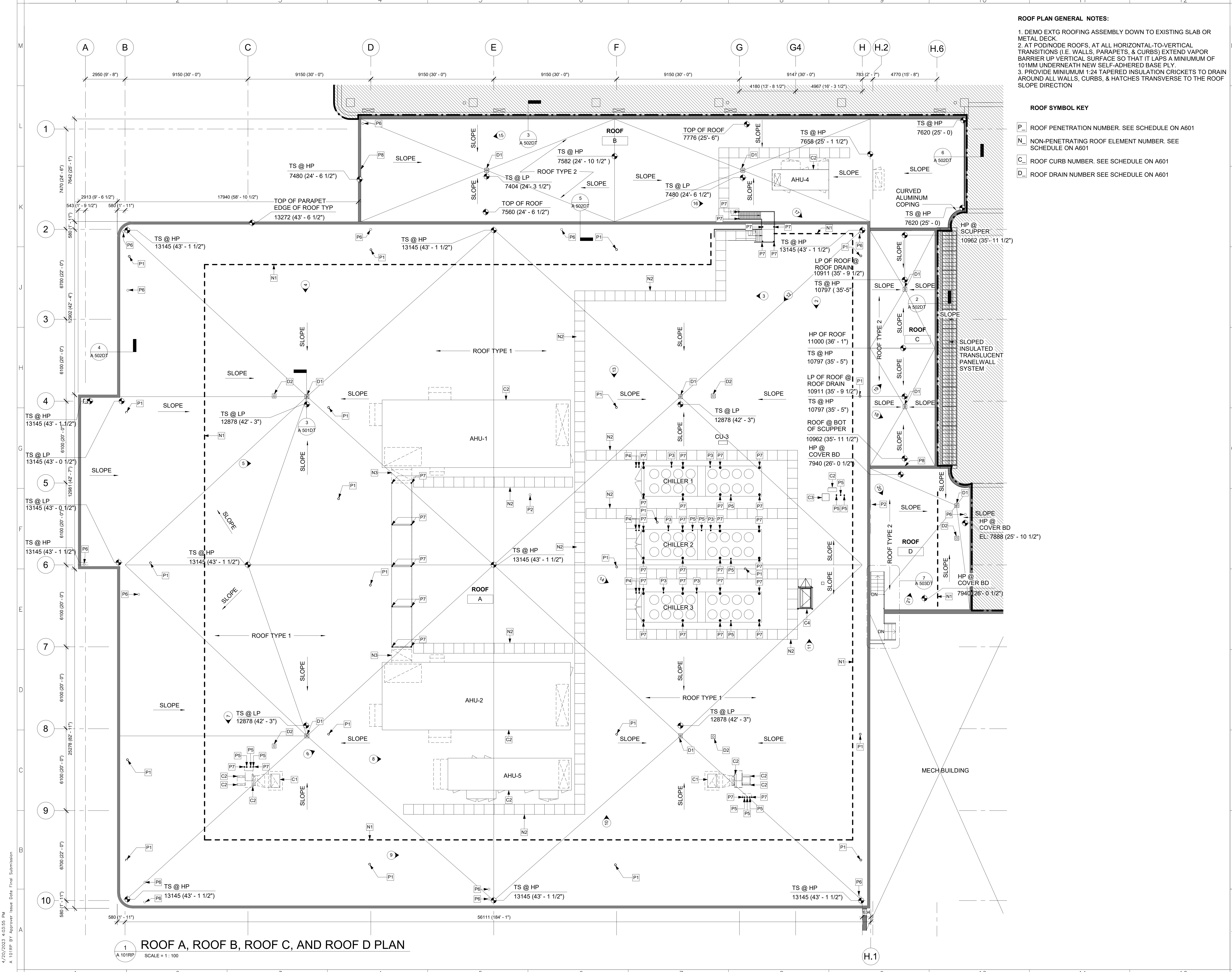


GRAPHIC SCALE(S)

DATE	03/15/23	SUBMISSION	Final Submission
REVISION #		REVISION DESCRIPTION	

Smithsonian Institution
Smithsonian Facilities
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	MSC
ADDRESS	4210 SILVER HILL ROAD SUITLAND, MD 20560
PROJECT TITLE	REPLACE POD 5 ROOF
SF PROJECT NUMBER	2030101
A/E PROJECT NUMBER	1401.52
DRAWING TITLE	ACCESS PLAN
WORKING STAFF	JF AM RW
SHEET NO.	A 002
3 of 12	



ROOF PLAN GENERAL NOTES:

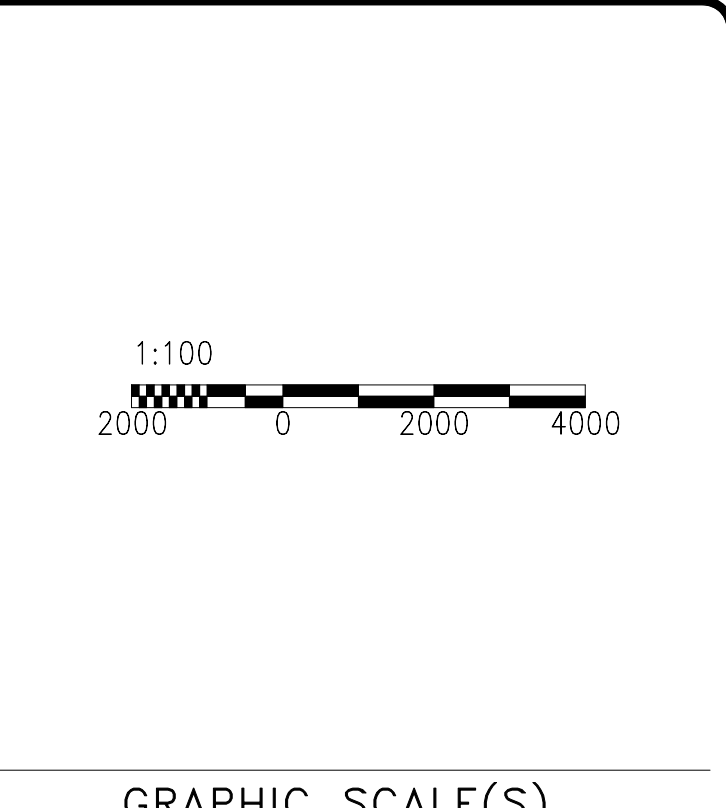
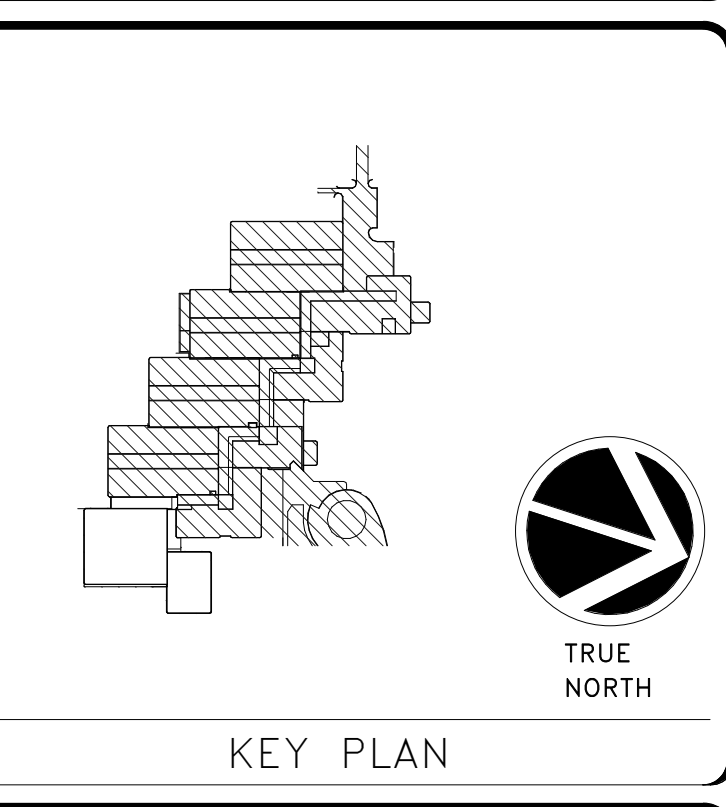
1. DEMO EXTG ROOFING ASSEMBLY DOWN TO EXISTING SLAB OR METAL DECK.
2. AT POD/NODE ROOFS, AT ALL HORIZONTAL-TO-VERTICAL TRANSITIONS (I.E. WALLS, PARAPETS, & CURBS) EXTEND VAPOR BARRIER UP VERTICAL SURFACE SO THAT IT LAPS A MINIMUM OF 101MM UNDERNEATH NEW SELF-ADHERED BASE PLY.
3. PROVIDE MINIMUM 1:24 TAPERED INSULATION CRICKETS TO DRAIN AROUND ALL WALLS, CURBS, & HATCHES TRANSVERSE TO THE ROOF SLOPE DIRECTION

ROOF SYMBOL KEY

- P ROOF PENETRATION NUMBER. SEE SCHEDULE ON A601
- N NON-PENETRATING ROOF ELEMENT NUMBER. SEE SCHEDULE ON A601
- C ROOF CURB NUMBER. SEE SCHEDULE ON A601
- D ROOF DRAIN NUMBER SEE SCHEDULE ON A601



FOR CONSTRUCTION



DATE	SUBMISSION
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BUILDING NAME	MSC
ADDRESS	4210 SILVER HILL ROAD SUITLAND, MD 20560
PROJECT TITLE	REPLACE POD 5 ROOF
SF PROJECT NUMBER	2030101
A/E PROJECT NUMBER	1401.52
DRAWING TITLE	ROOF A, ROOF B, ROOF C & ROOF D PLAN
WORKING STAFF	JF AM RW
SHEET NO.	A 101RP
4 of 12	

4/20/2023 4:03:55 PM A 101RP Final Submission

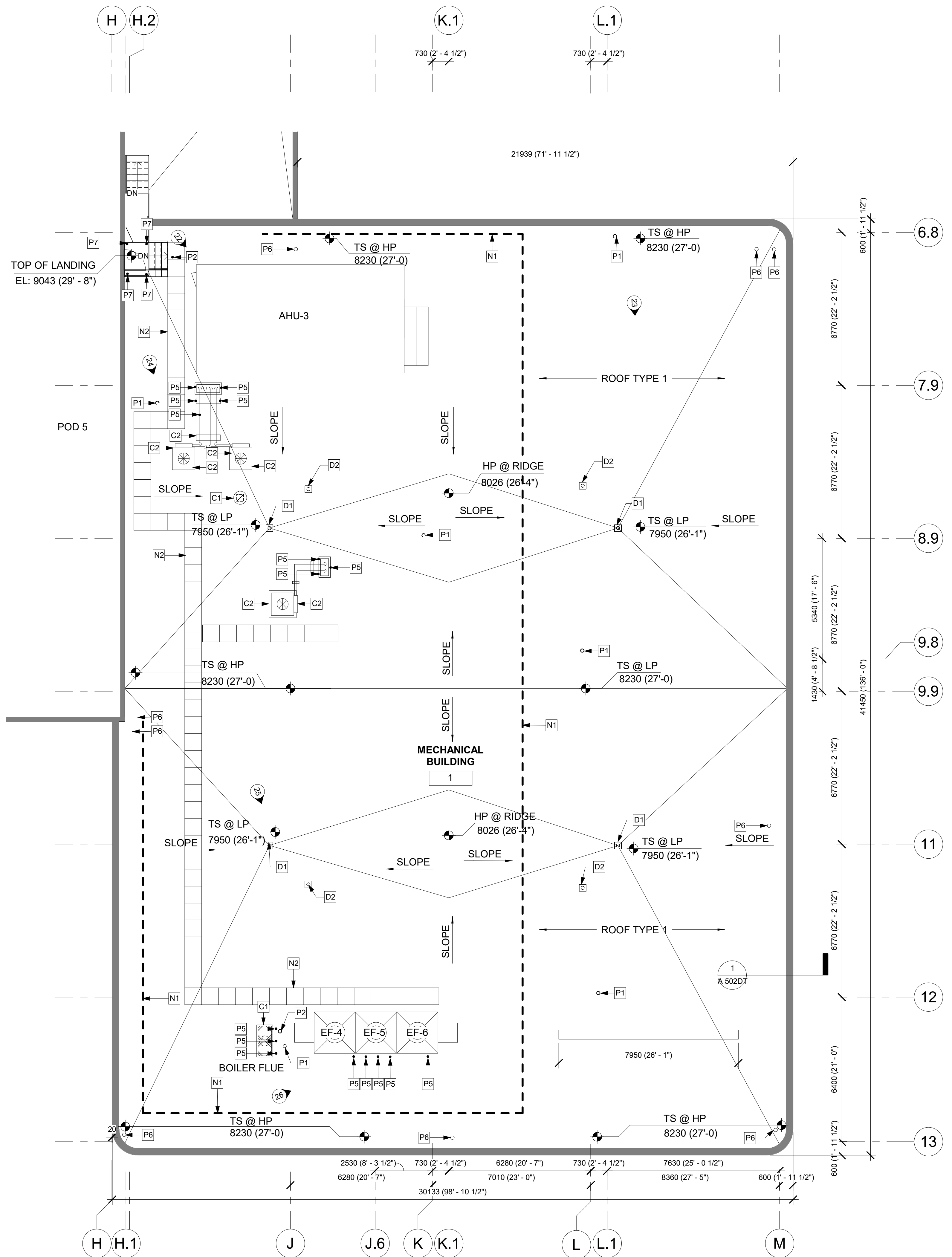
1 ROOF A, ROOF B, ROOF C, AND ROOF D PLAN
SCALE = 1:100

4/20/2023 4:03:55 PM
A 102RP Final Submission

ROOF PLAN GENERAL NOTES:
 1. DEMO EXTG ROOFING ASSEMBLY DOWN TO EXISTING DECK
 2. AT POD/NODE ROOFS, AT ALL HORIZONTAL-TO-VERTICAL TRANSITIONS (I.E. WALLS, PARAPETS, & CURBS) EXTEND NEW SELF ADHERED VAPOR BARRIER UP VERTICAL SURFACE SO THAT IT LAPS A MINIMUM OF 101MM UNDERNEATH NEW SELF-ADHERED BASE PLY.
 3. PROVIDE MIN 1:24 TAPERED INSULATION CRICKETS TO DRAIN AROUND ALL WALLS, CURBS, & HATCHES TRANSVERSE TO THE ROOF SLOPE DIRECTION

ROOF SYMBOL KEY

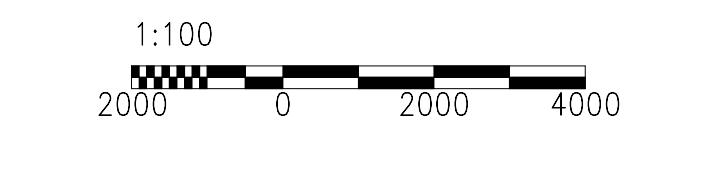
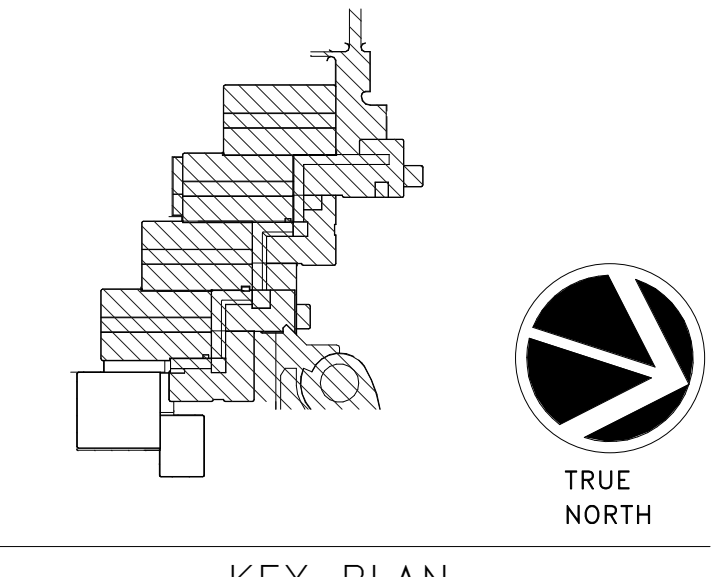
- P ROOF PENETRATION NUMBER. SEE SCHEDULE ON A601
- N NON-PENETRATING ROOF ELEMENT NUMBER. SEE SCHEDULE ON A601
- C ROOF CURB NUMBER. SEE SCHEDULE ON A601
- D ROOF DRAIN NUMBER SEE SCHEDULE ON A601



1 MECHANICAL BUILDING ROOF PLAN
 A 102RP SCALE = 1:100



FOR CONSTRUCTION



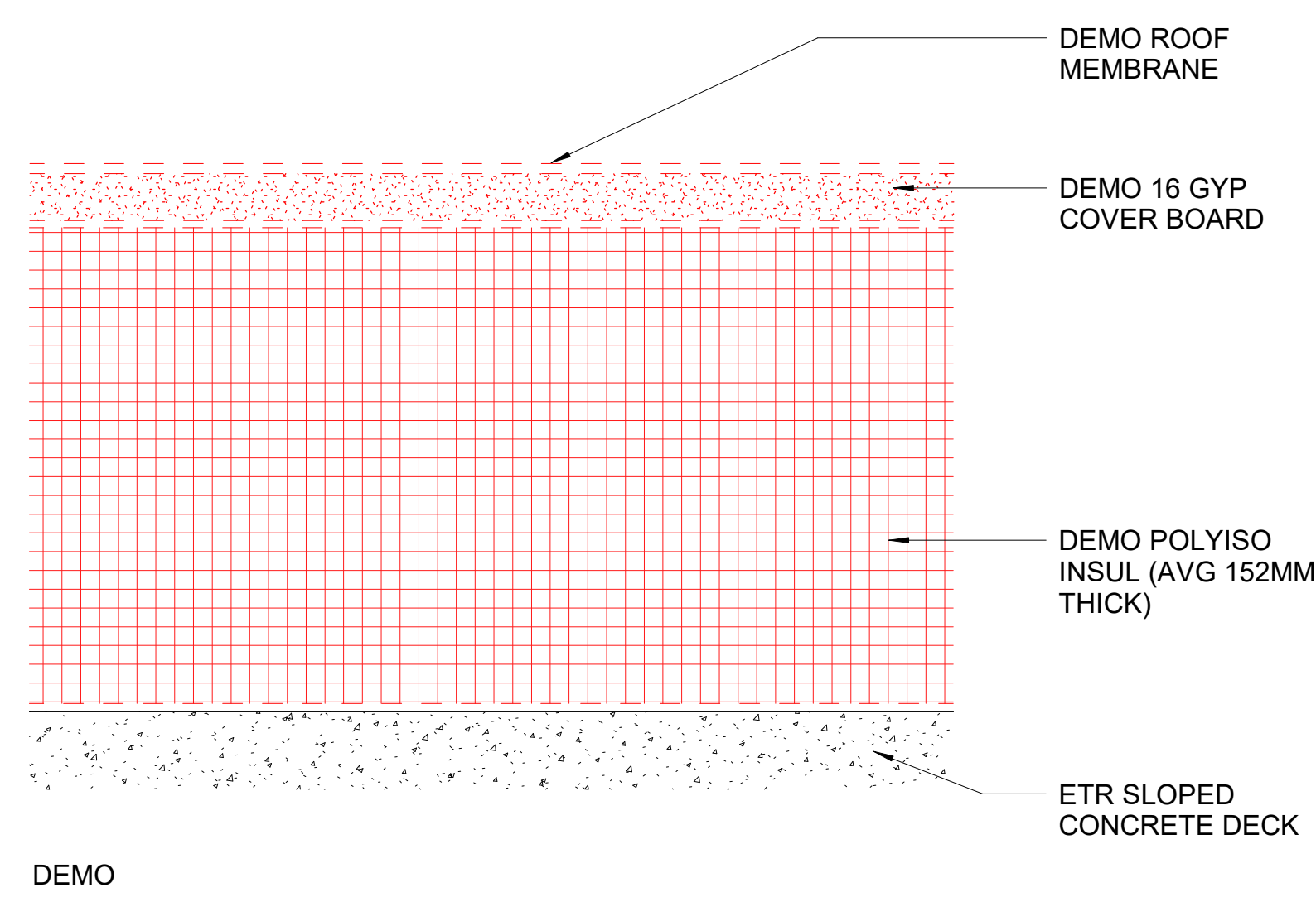
GRAPHIC SCALE(S)

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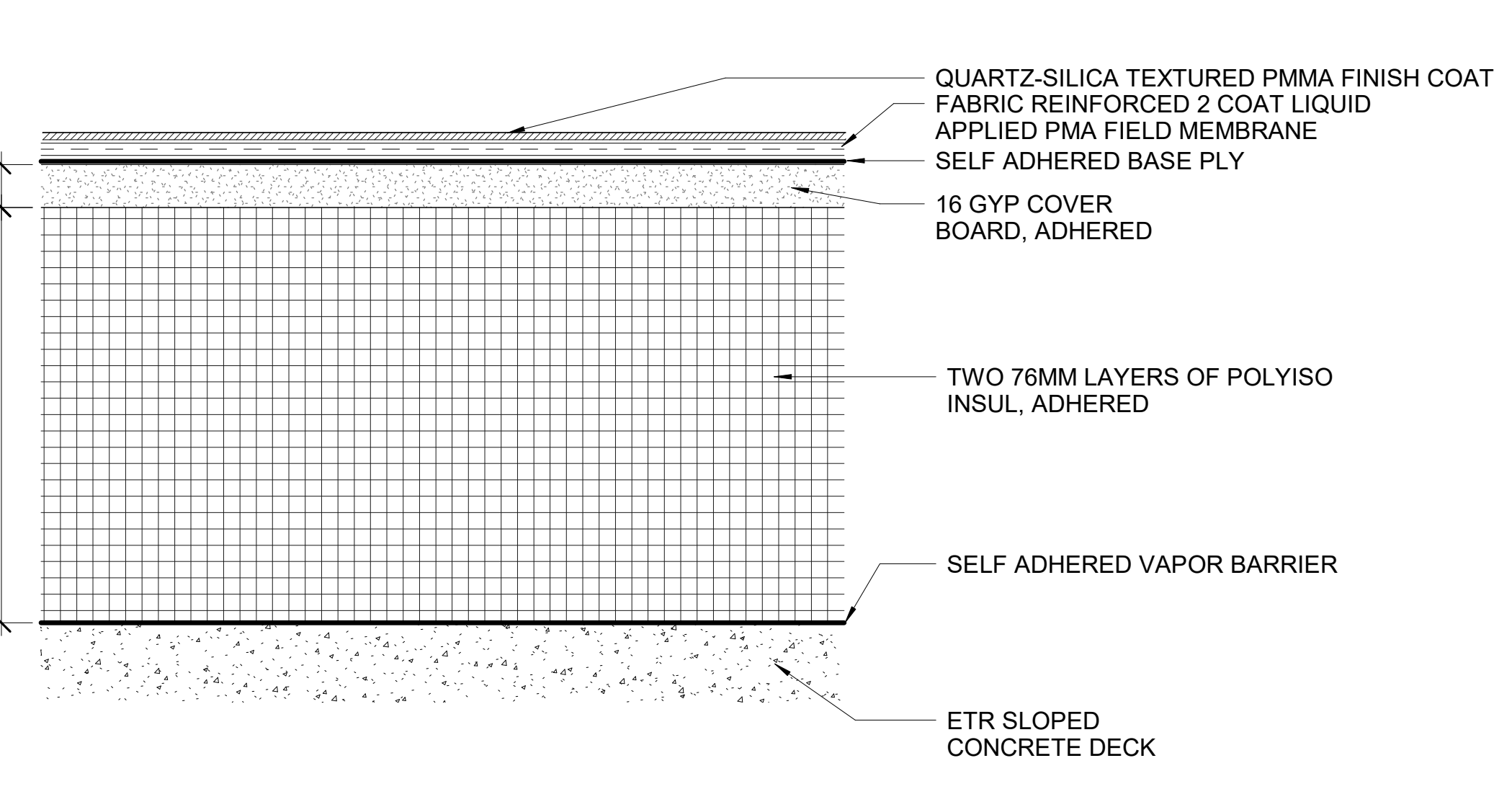


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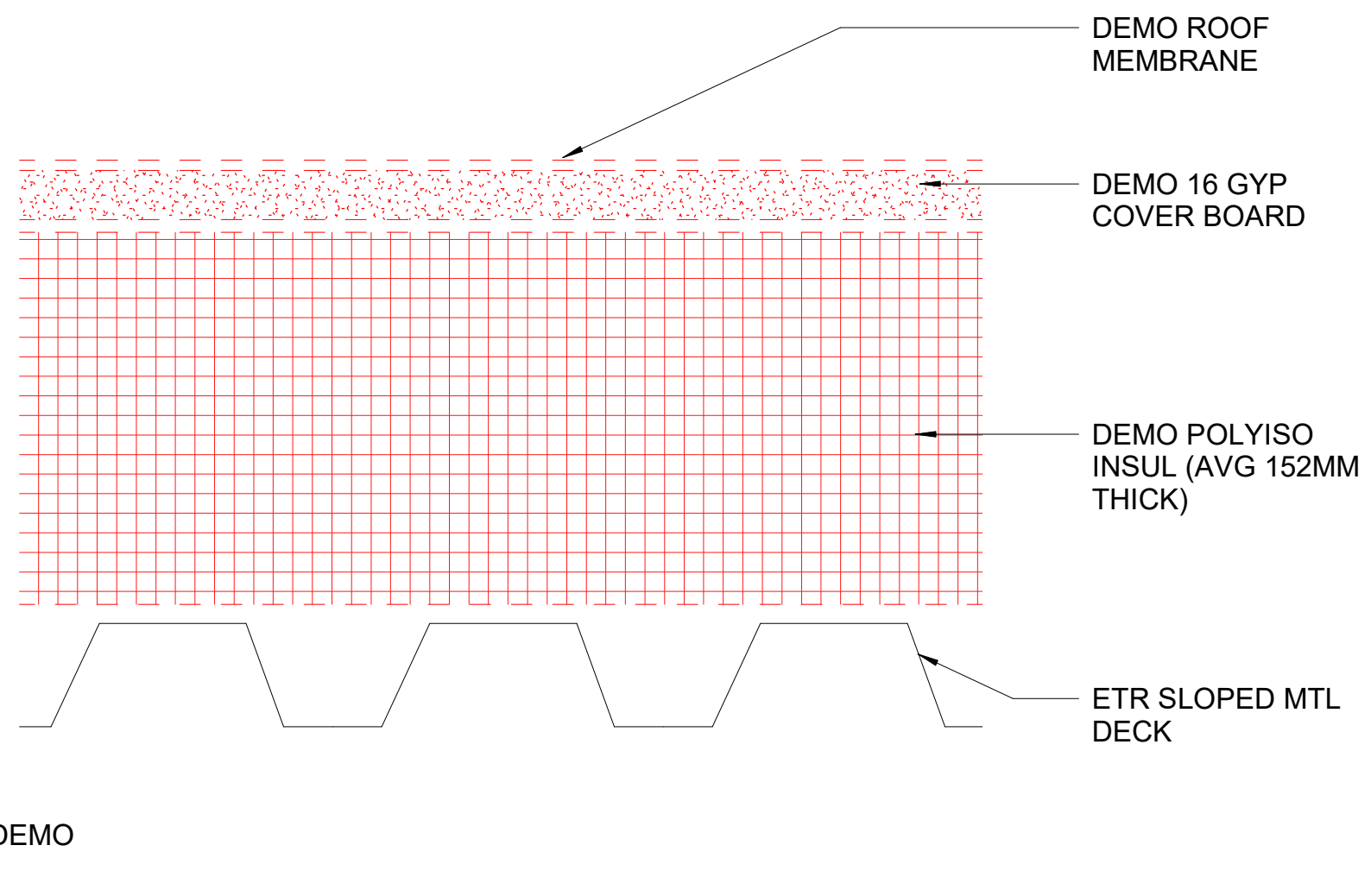
BUILDING NAME	MSC
ADDRESS	4210 SILVER HILL ROAD SUITLAND, MD 20560
PROJECT TITLE	REPLACE POD 5 ROOF
SF PROJECT NUMBER	2030101
A/E PROJECT NUMBER	1401.52
DRAWING TITLE	MECHANICAL BUILDING ROOF PLAN
WORKING STAFF	JF AM RW
SHEET NO.	A 102RP
5 of 12	



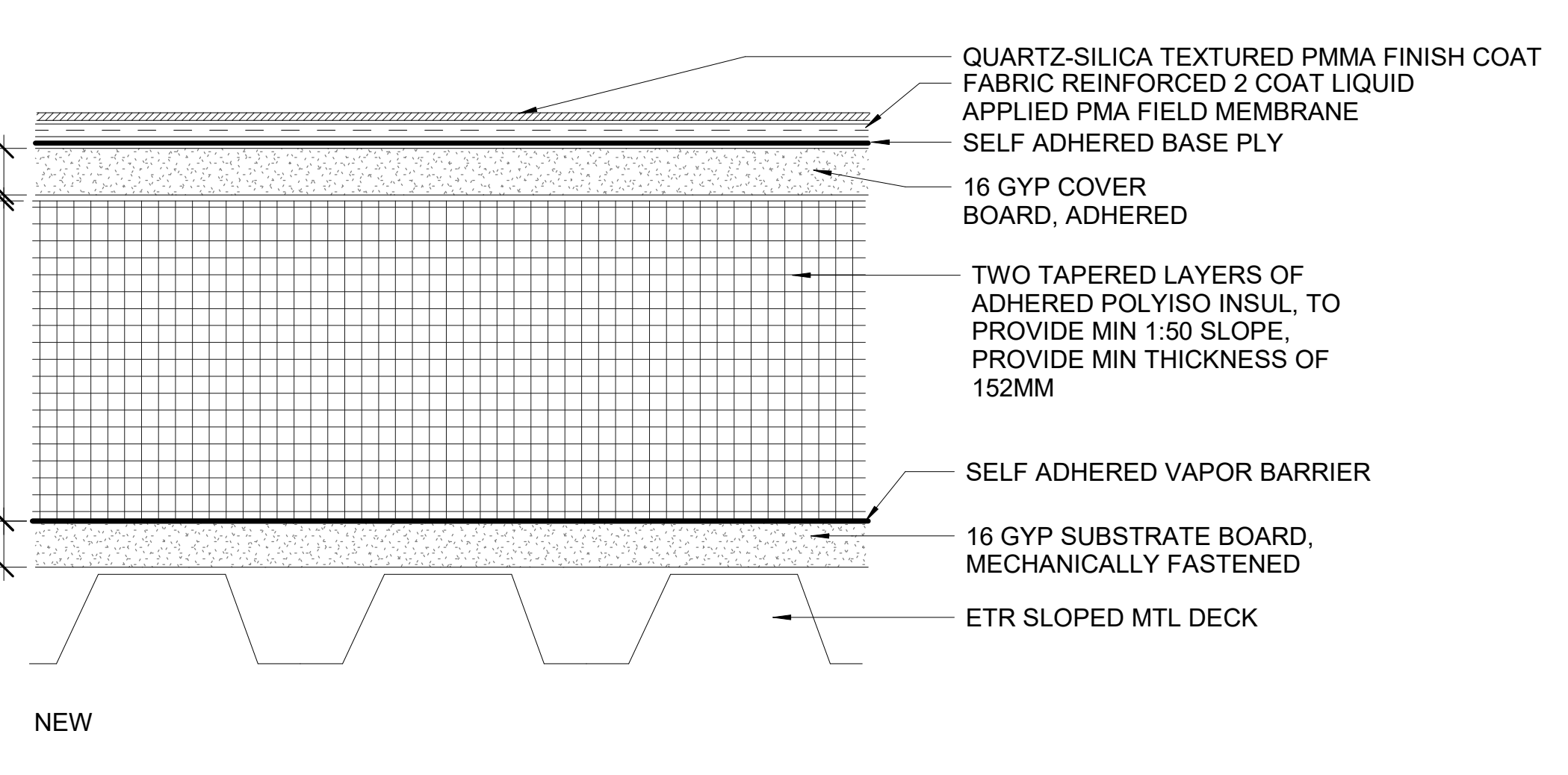
1 TYPICAL POD/ STREET ROOF TYPE 1 (RT1)
SCALE = 1:2



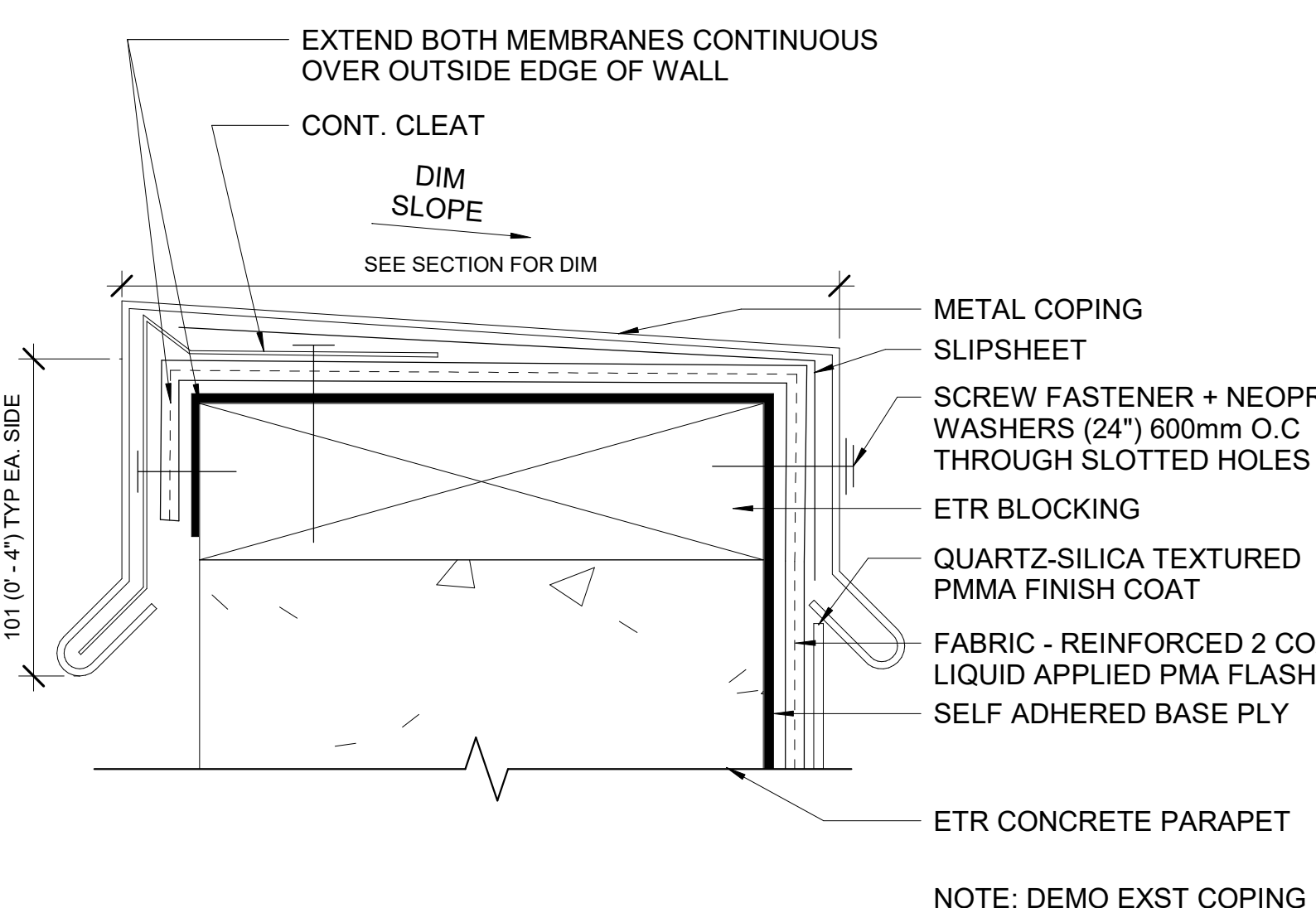
NEW



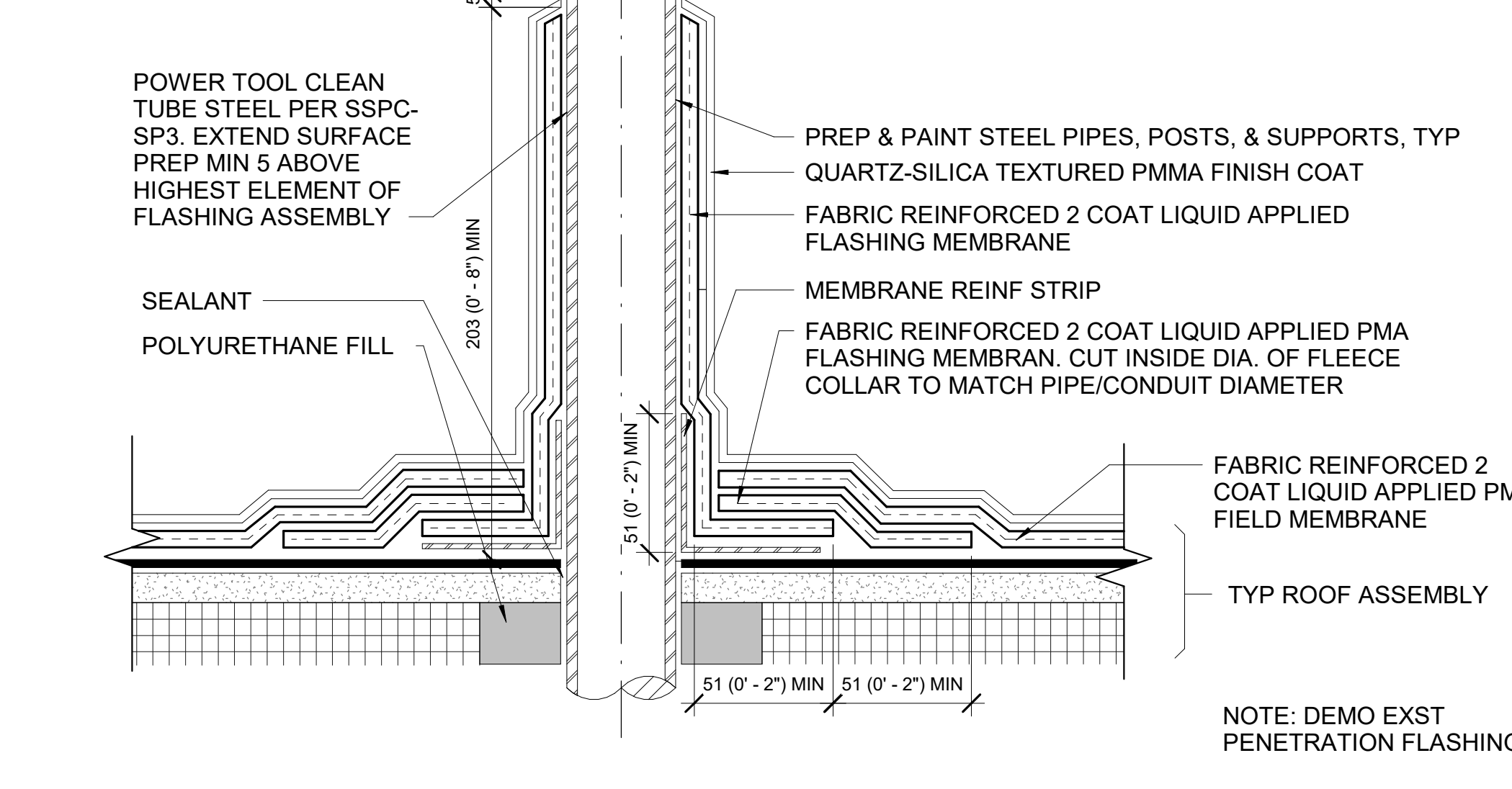
2 TYPICAL POD/ STREET ROOF TYPE 2 (RT2)
SCALE = 1:2



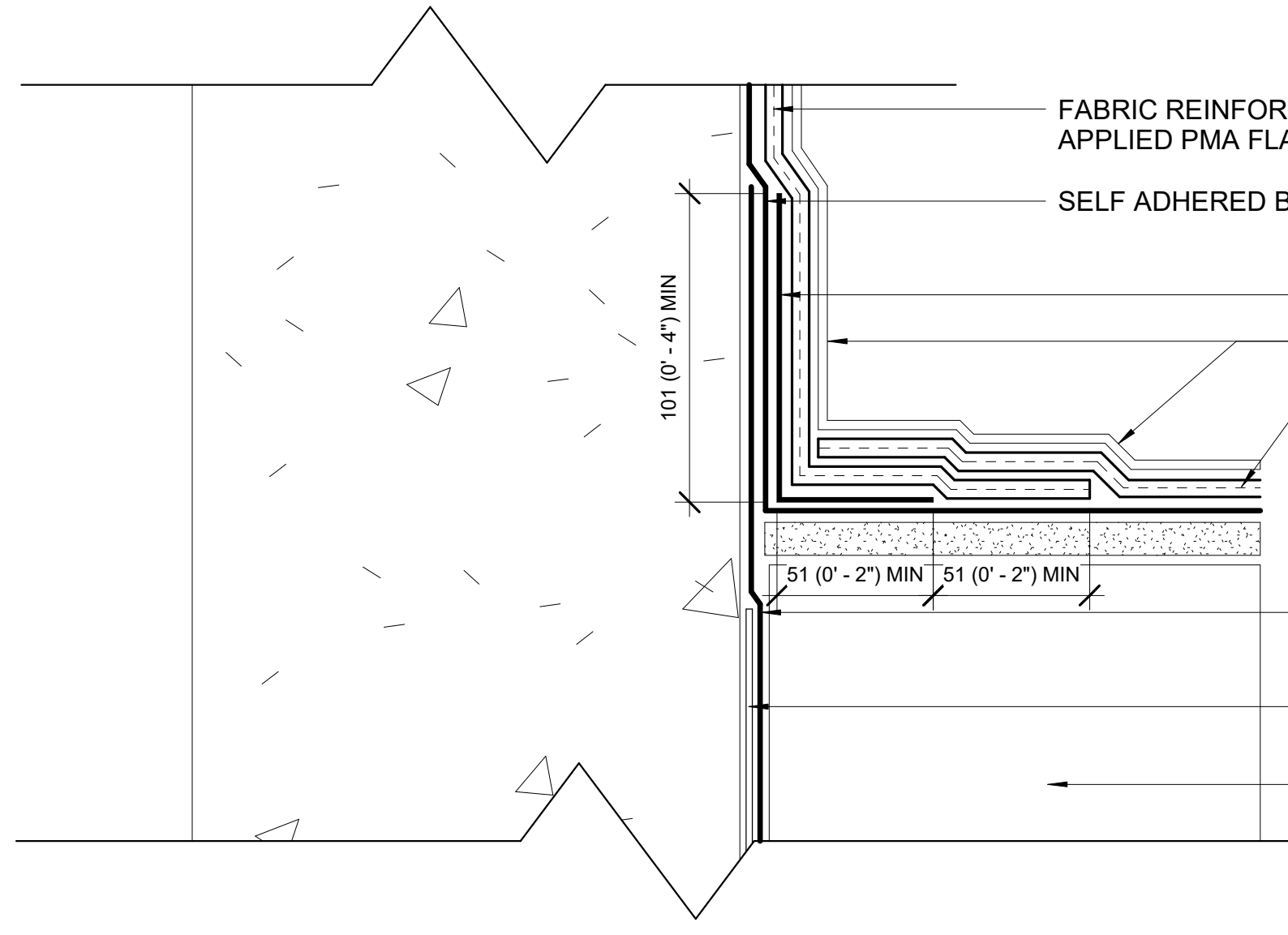
NEW



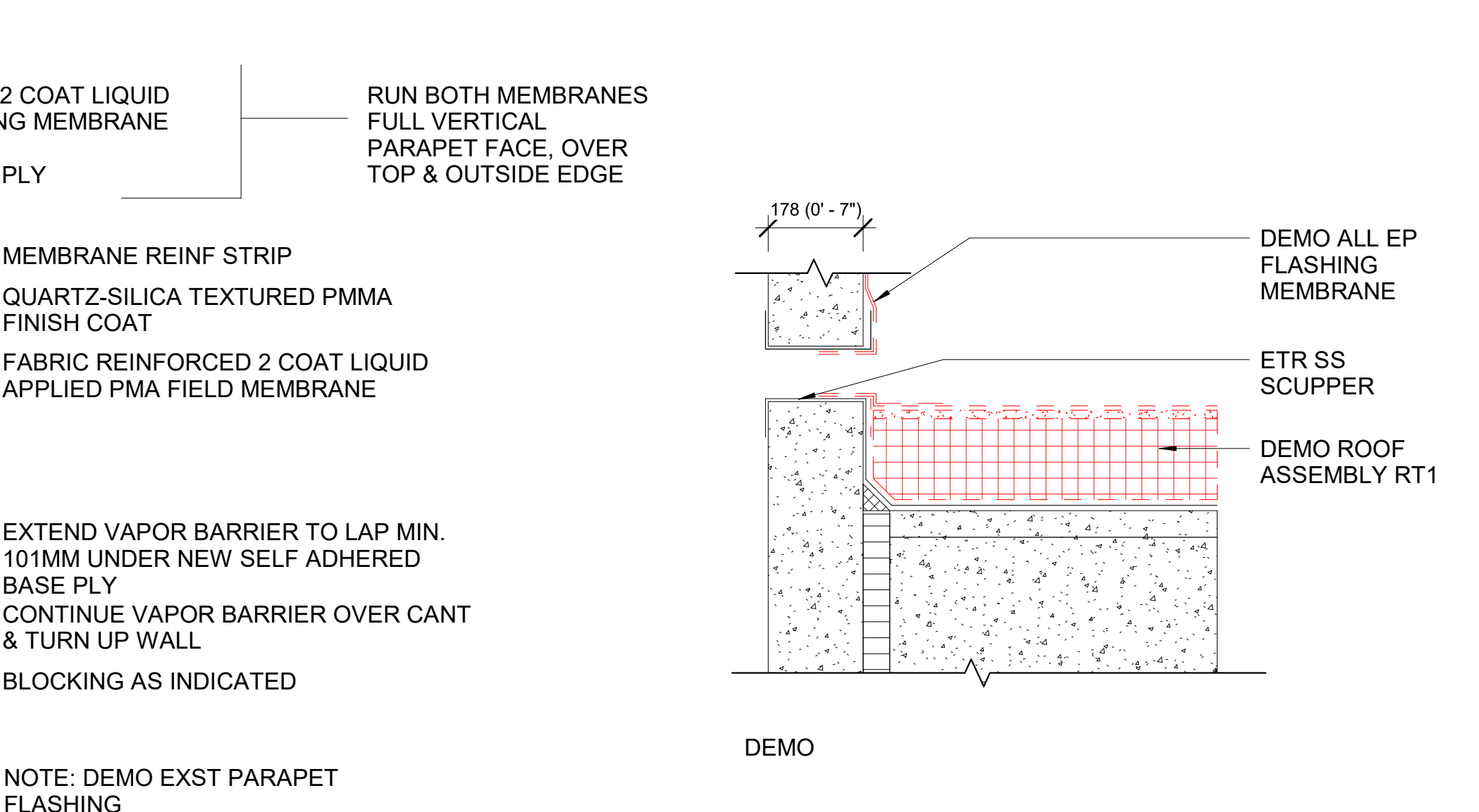
4 TYPICAL COPING
SCALE = 1:2



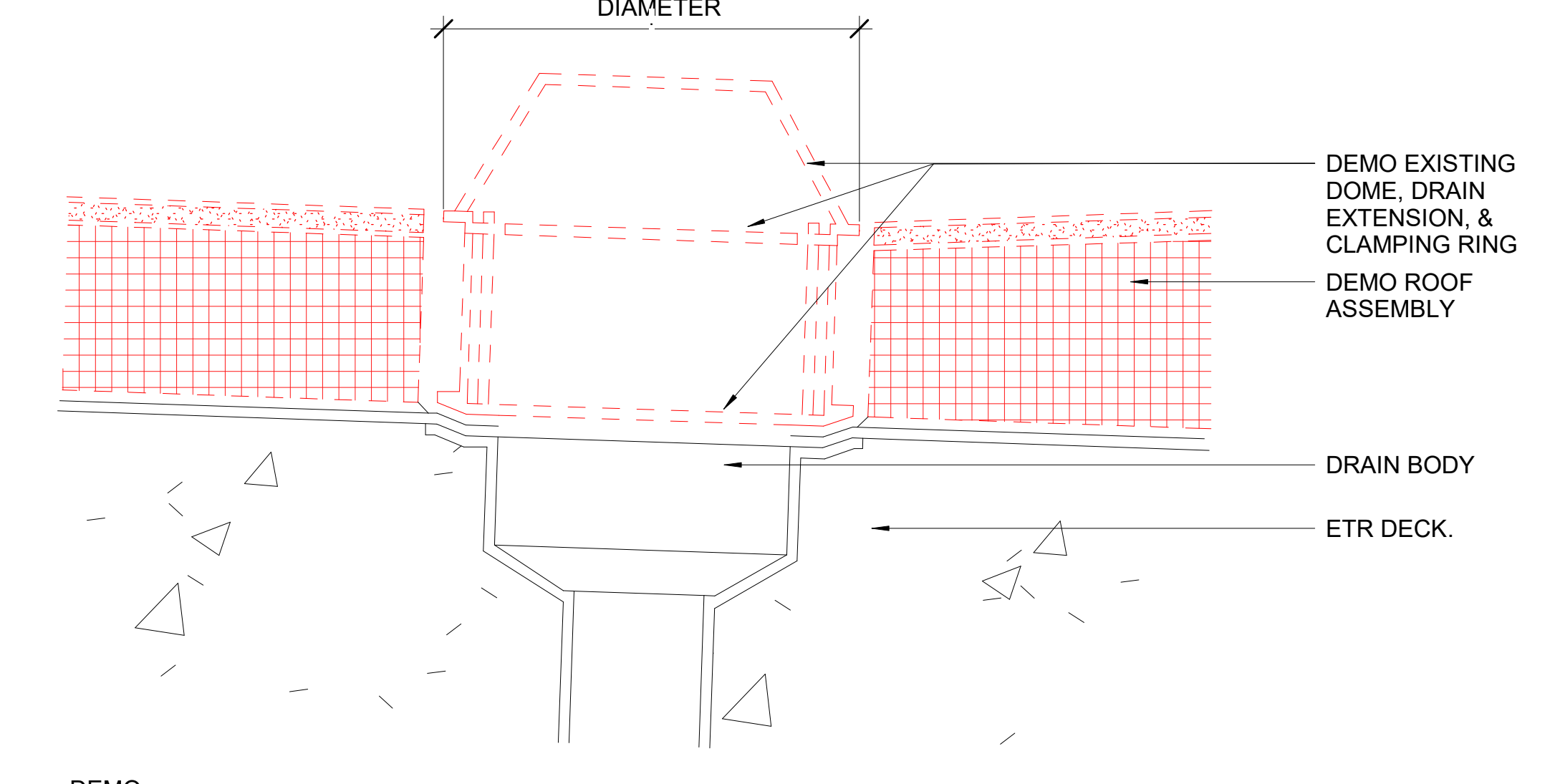
5 TYPICAL PENETRATION FLASHING
SCALE = 1:2



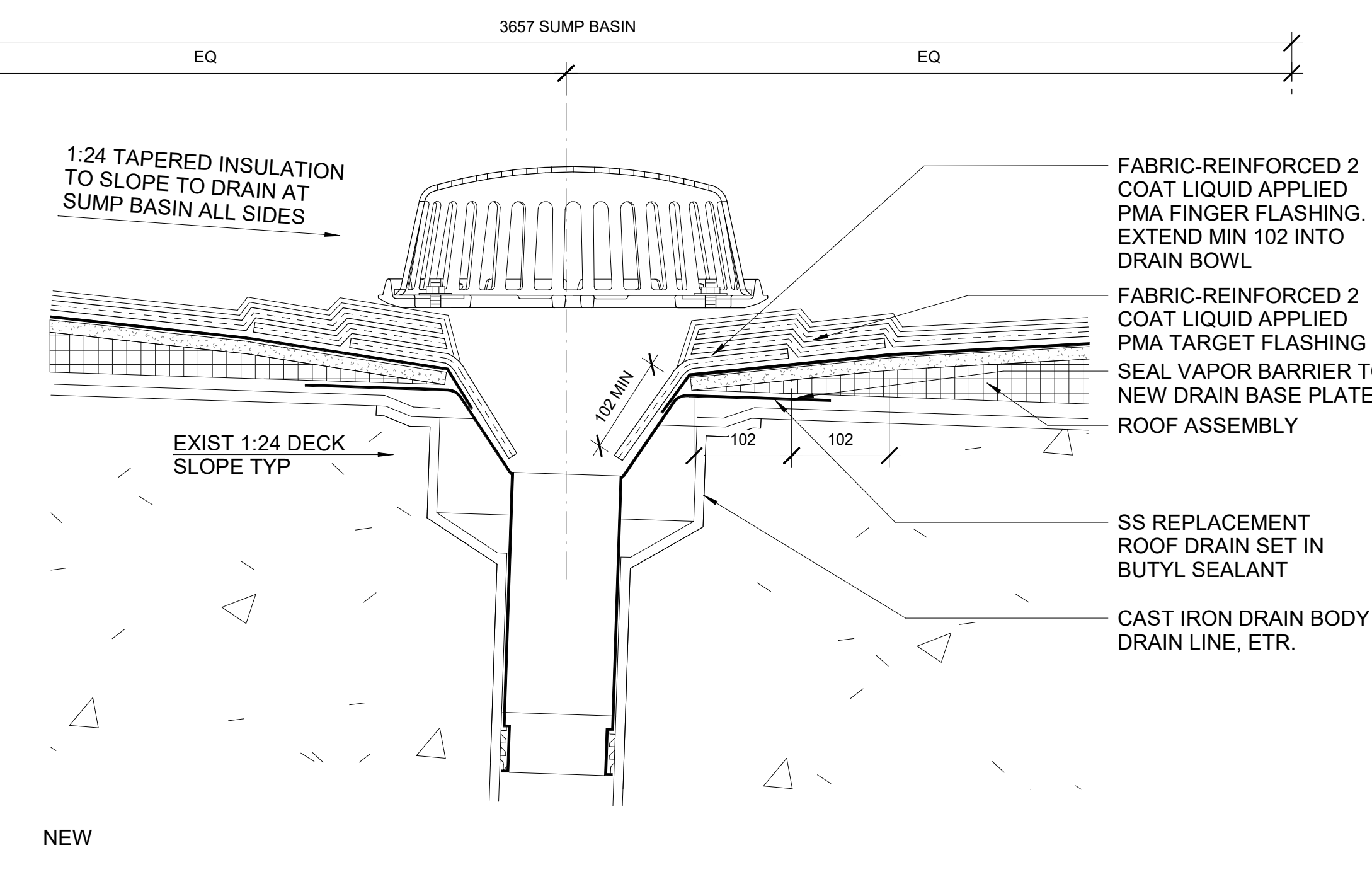
6 TYPICAL WALL/ PARAPET FLASHING
SCALE = 1:2



7 TYP THRU WALL SCUPPER
SCALE = 1:10

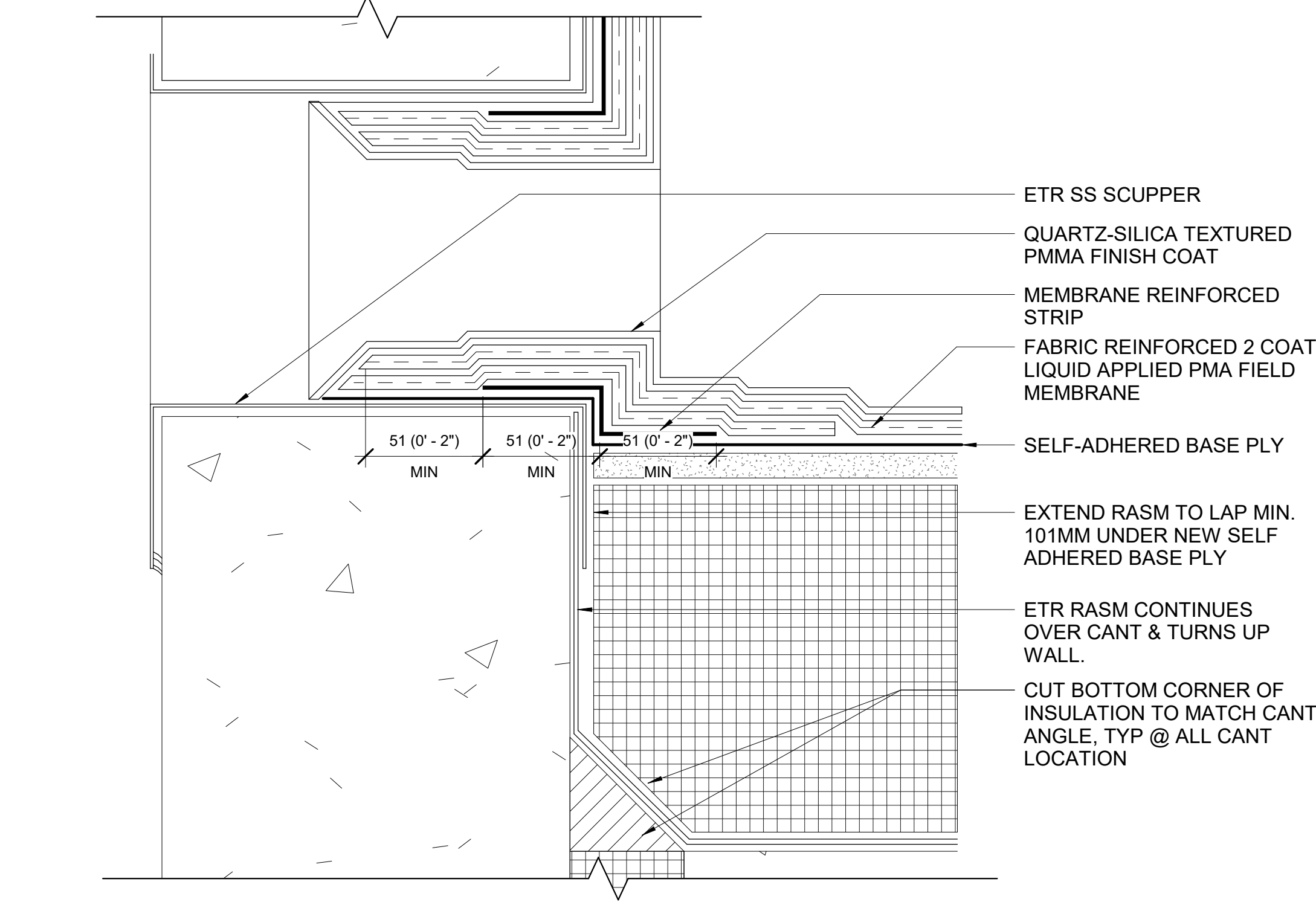


DEMO



NEW

3 DRAIN DETAIL
SCALE = 1:5

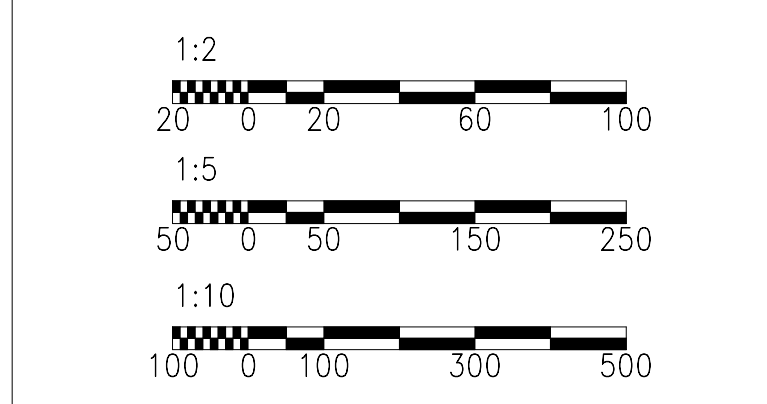
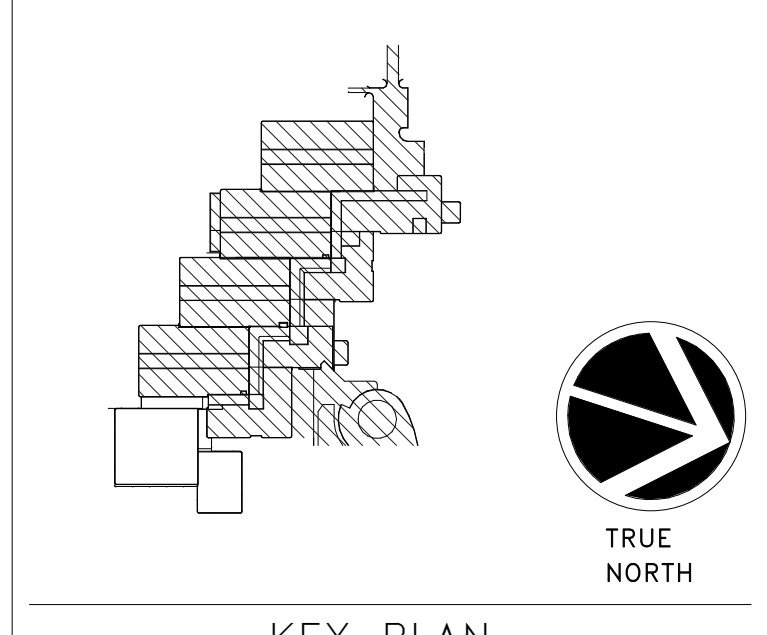


DEMO

8 SCUPPER DETAIL
SCALE = 1:2



NEW



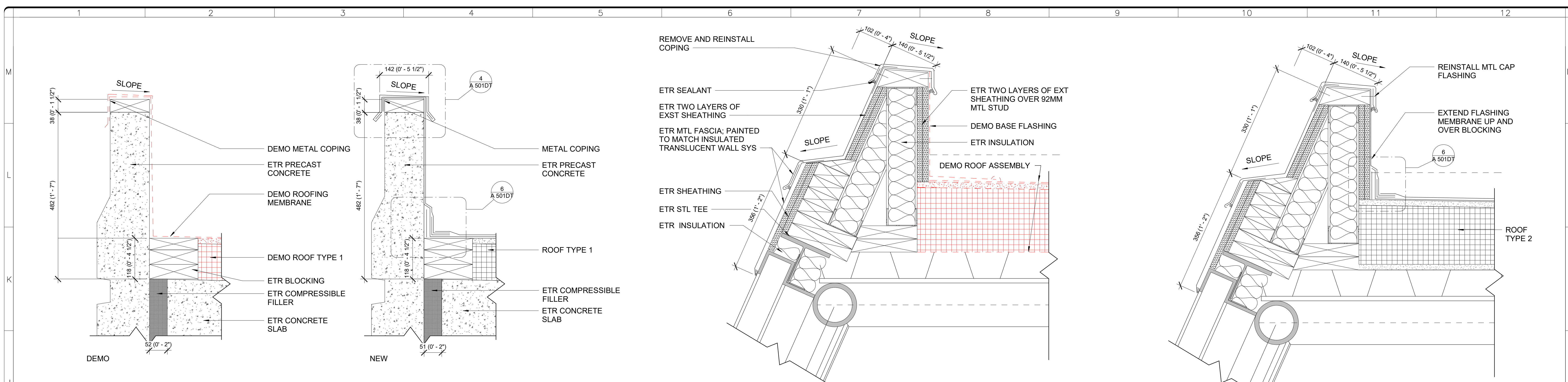
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DATE	03/15/23	SUBMISSION	Final Submission
DESIGNER & DATE		DESIGNER & DATE	
REVISION		REVISION	

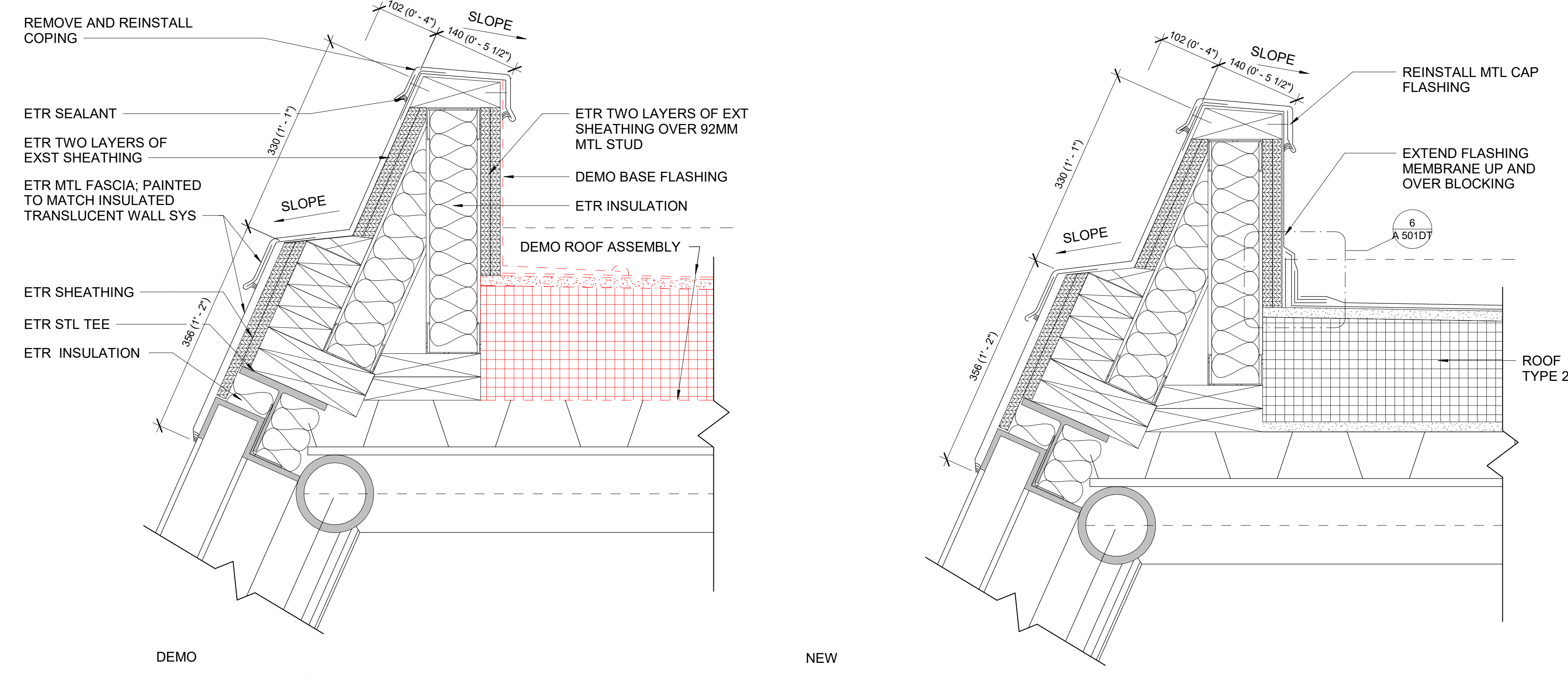


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600 Maryland Avenue S.W. Suite 5001
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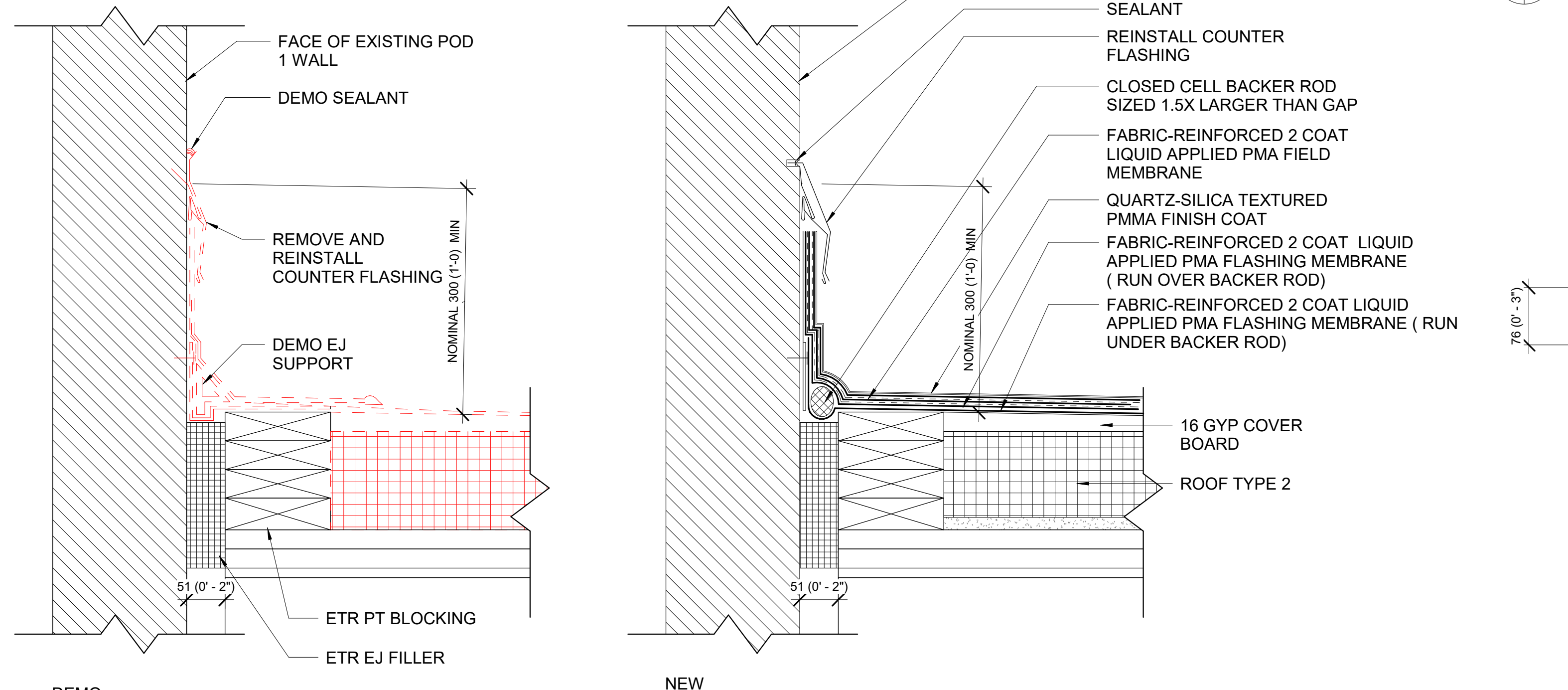
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ADDRESS	4210 SILVER HILL ROAD SUITLAND, MD 20560
PROJECT TITLE	REPLACE POD 5 ROOF
SF PROJECT NUMBER	2030101
A/E PROJECT NUMBER	1401.52
DRAWING TITLE	TYPICAL DETAILS
WORKING STAFF	JF AM RW
SHEET NO.	A 501DT
6 of 12	



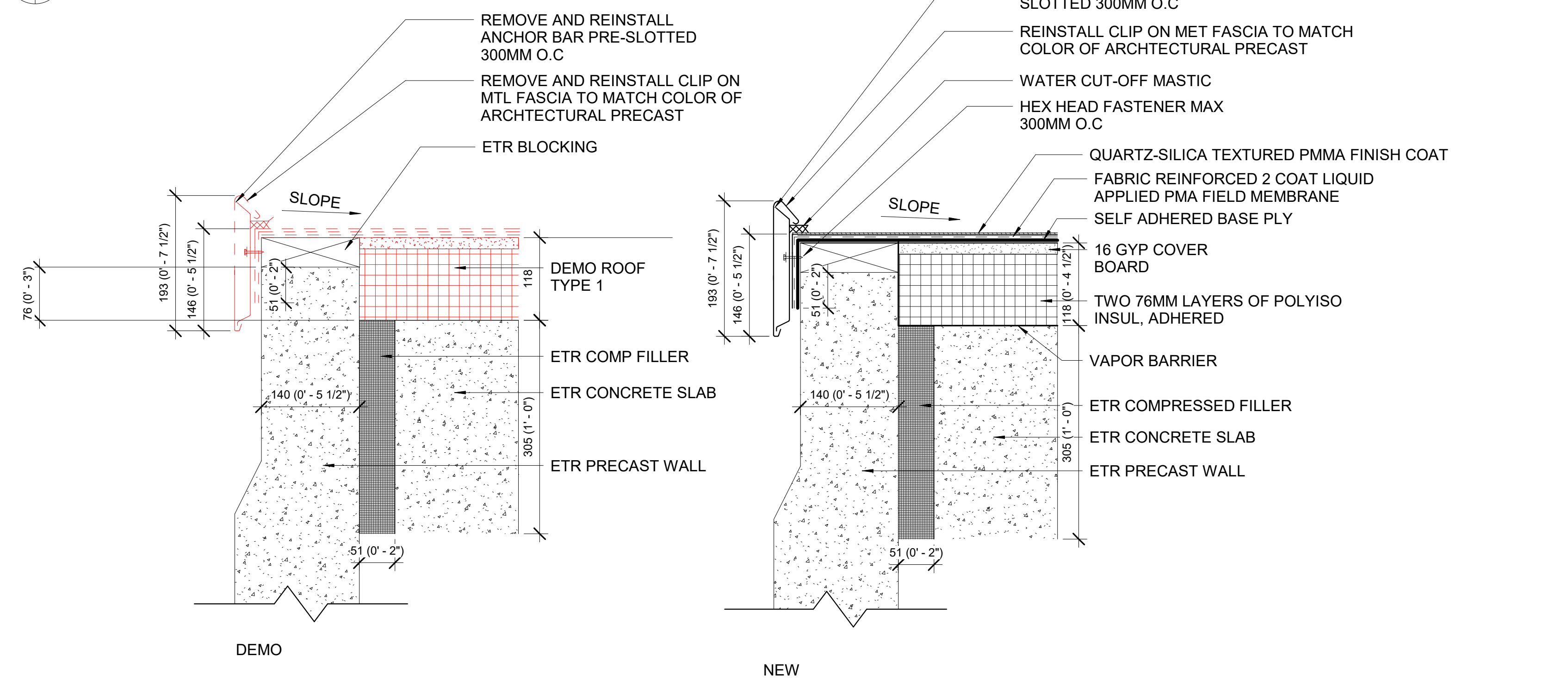
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A 102RPA 502DT SCALE = 1:5



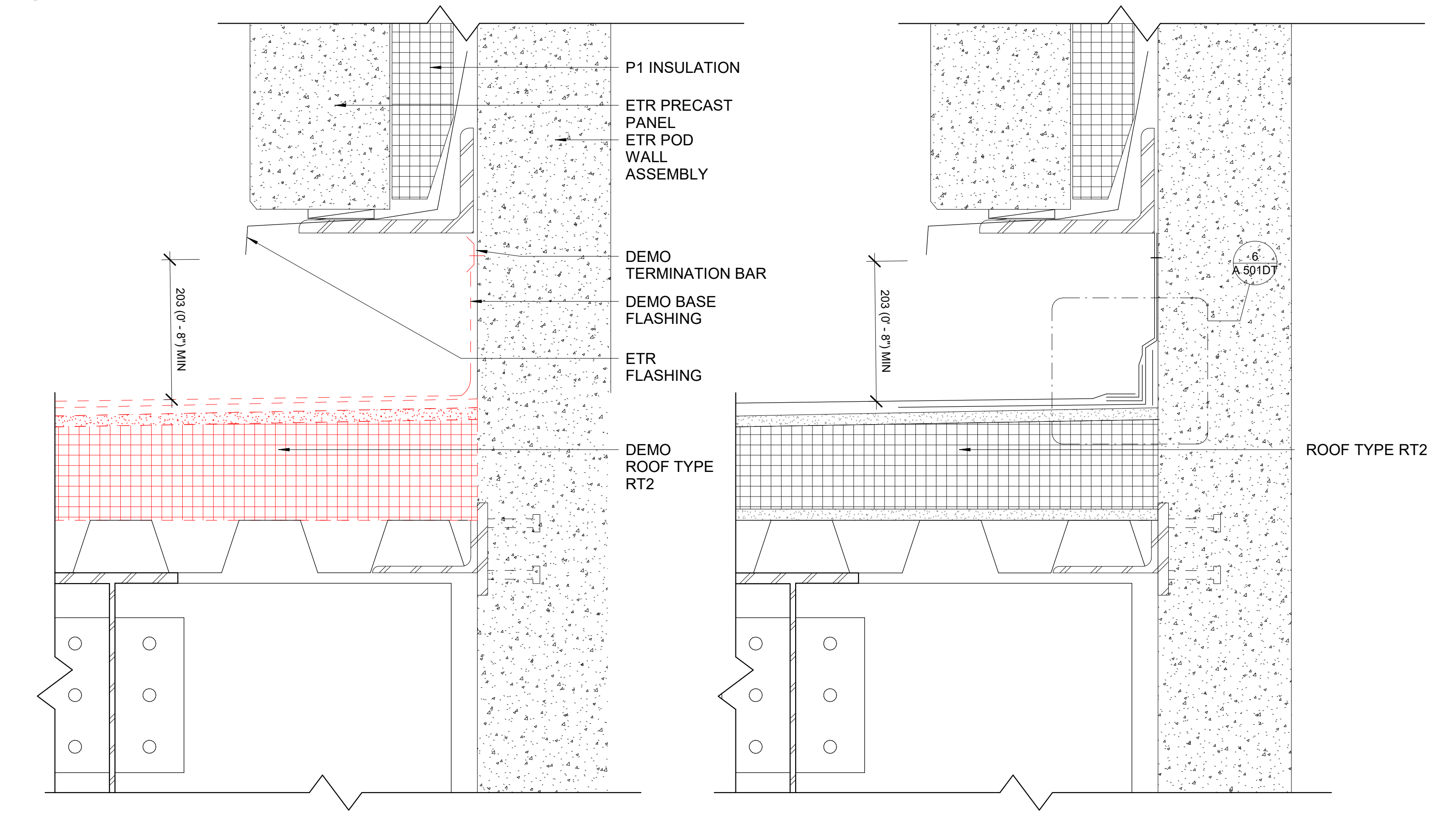
2 ROOF C STREET DETAIL
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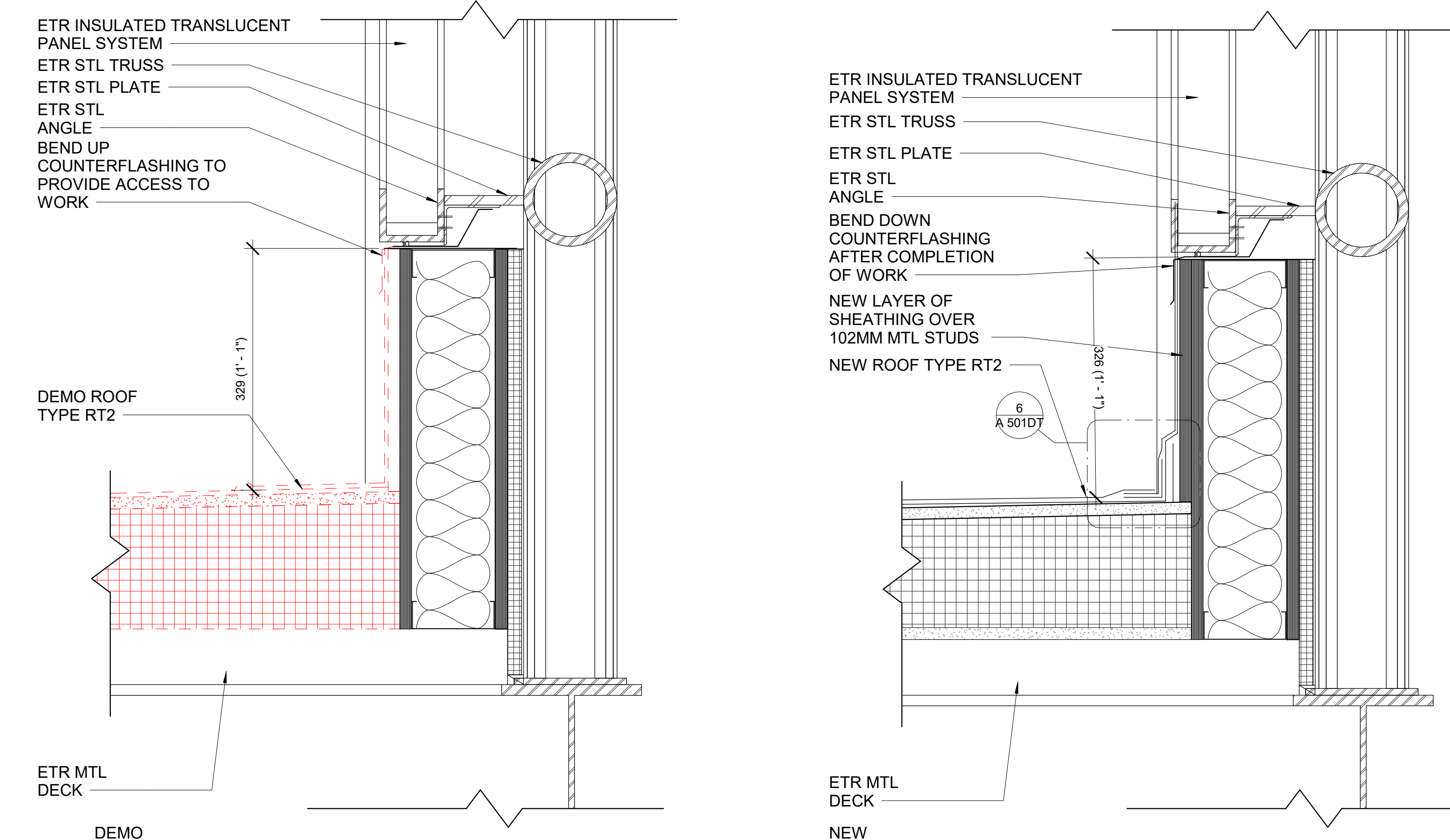
3 EXPANSION JOINT
A 101RPA 502DT SCALE = 1:5



4 ROOF DETAIL AT ROOF 5-3
A 101RPA 502DT SCALE = 1:5



5 CONNECTION DETAIL AT STREET & POD
A 101RPA 502DT SCALE = 1:5



6 CONNECTION DETAIL AT STREET
A 101RPA 502DT SCALE = 1:5

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ARCHITECTURAL REGISTRATION BOARD
STATE OF MARYLAND

KEY PLAN
TRUE NORTH

GRAPHIC SCALE(S)
1:5
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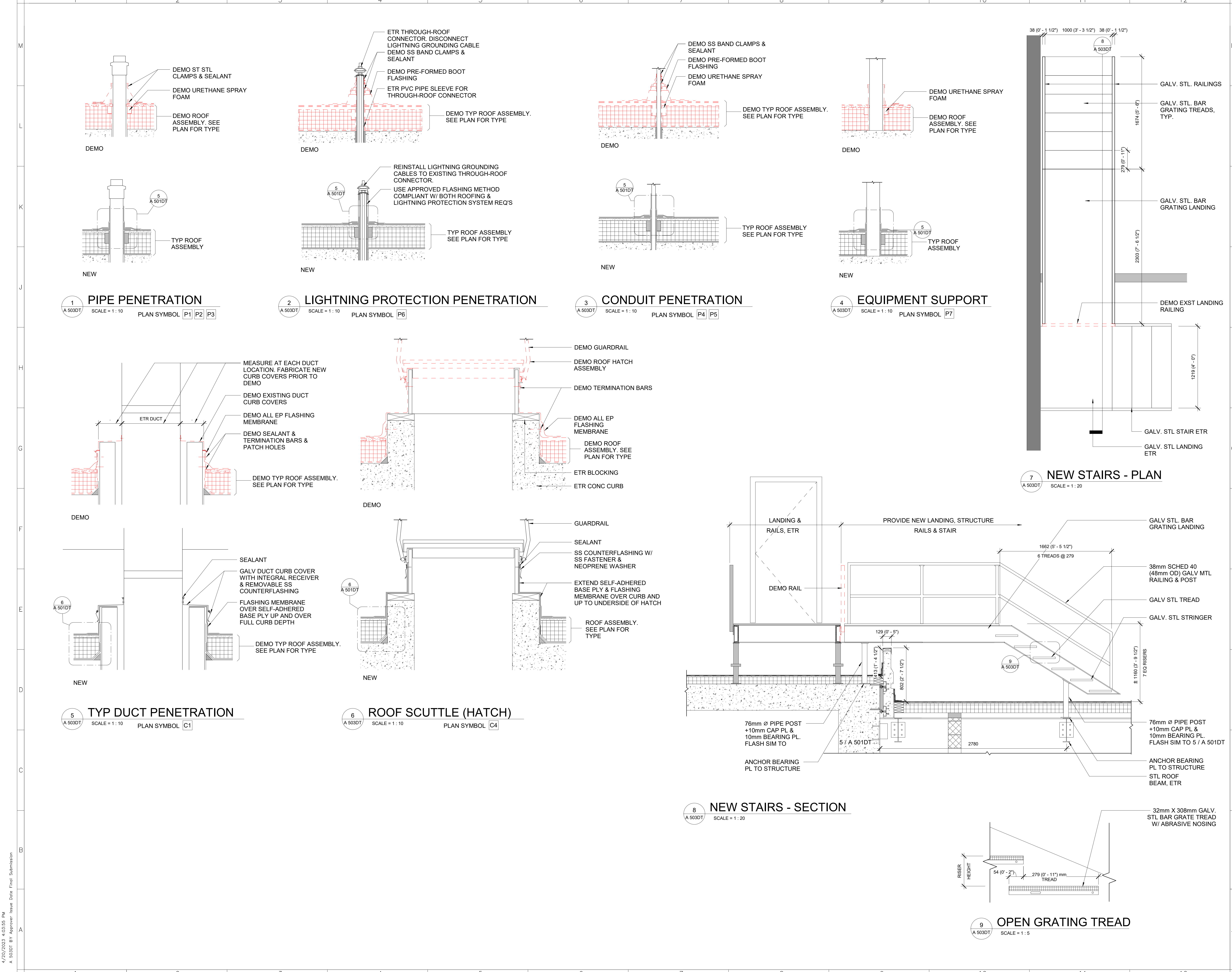
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DESIGNER & DATE		DESIGNER & DATE	

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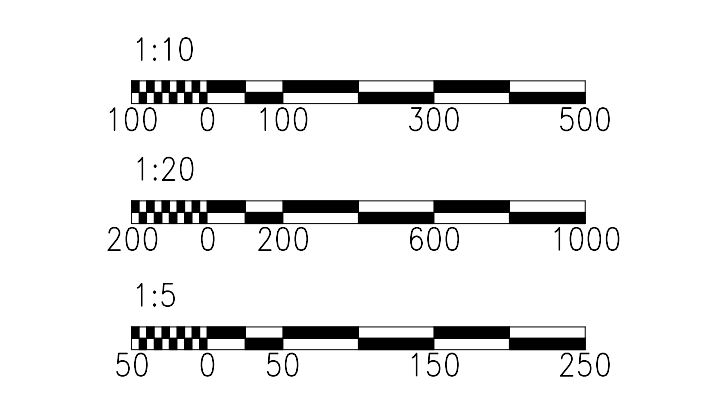
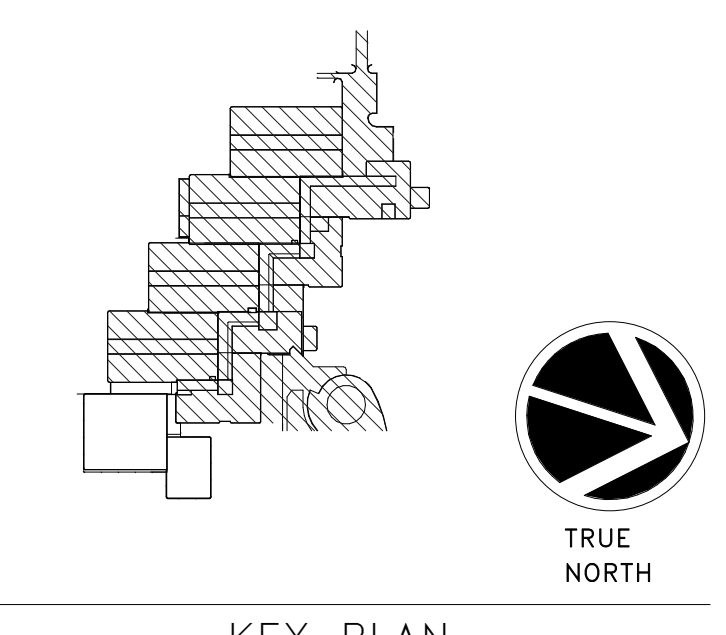
Smithsonian Facilities
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	MSC
ADDRESS	4210 SILVER HILL ROAD SUITLAND, MD 20560
PROJECT TITLE	REPLACE POD 5 ROOF
SF PROJECT NUMBER	2030101
A/E PROJECT NUMBER	1401.52
DRAWING TITLE	SECTION DETAILS
WORKING STAFF	JF AM RW
SHEET NO.	A 502DT
	7 of 12

4/20/2023 4:03:55 PM A 502DT B1 Approver Issue Date Final Submission



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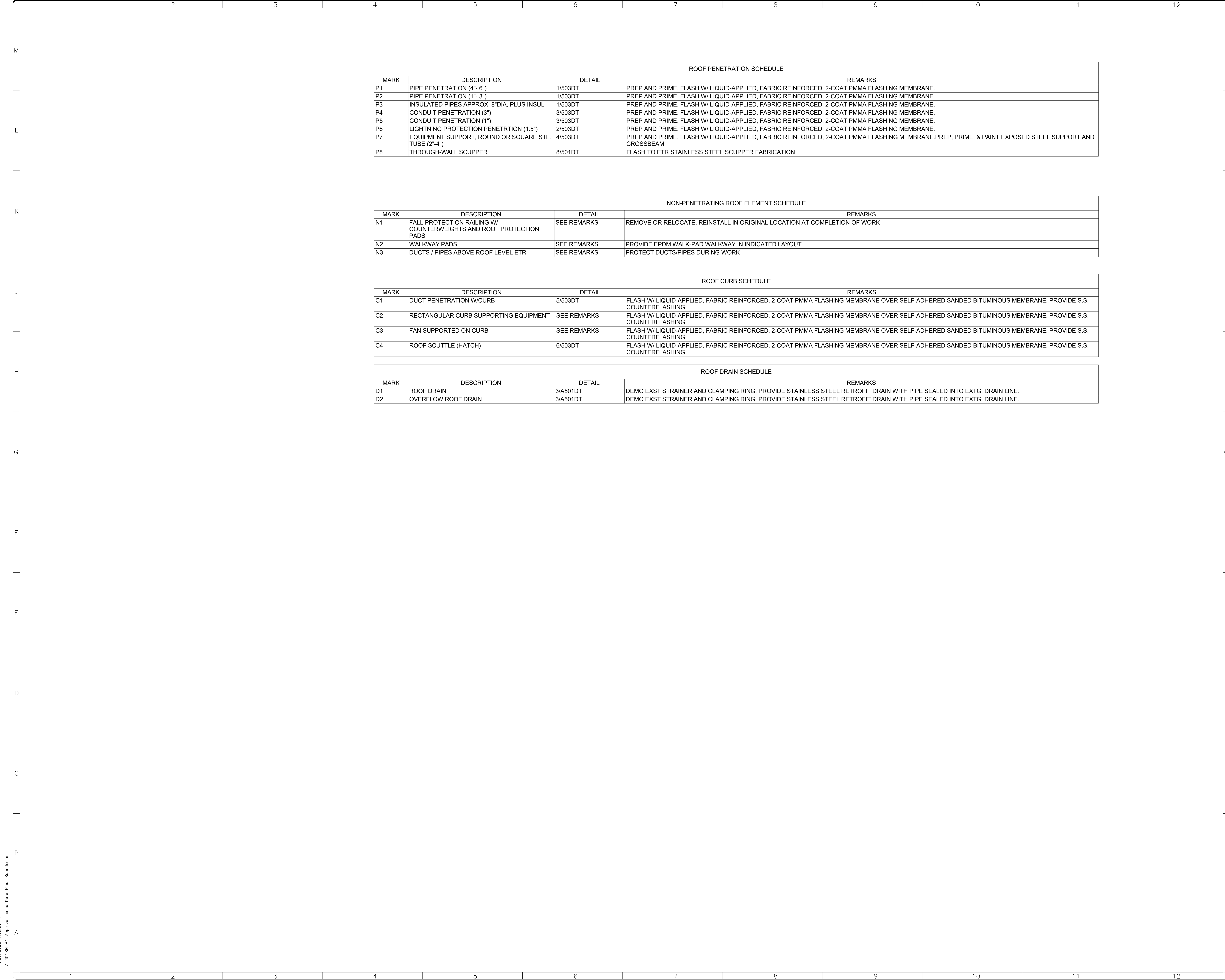
DATE	REVISION
03/15/23	Final Submission

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600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	MSC
ADDRESS	4210 SILVER HILL ROAD SUITLAND, MD 20560
PROJECT TITLE	REPLACE POD 5 ROOF
SF PROJECT NUMBER	2030101
A/E PROJECT NUMBER	1401.52
DRAWING TITLE	DETAILS
WORKING STAFF	JF AM RW
SHEET NO.	A 503DT
8 of 12	

4/20/2023 4:03:55 PM A 503DT B1 Approver Issue Date Final Submission

4/20/2023 4:03:55 PM
A 601SH-B1 Approver Issue Date Final Submission



ROOF PENETRATION SCHEDULE			
MARK	DESCRIPTION	DETAIL	REMARKS
P1	PIPE PENETRATION (4"- 6")	1/503DT	PREP AND PRIME. FLASH W/ LIQUID-APPLIED, FABRIC REINFORCED, 2-COAT PMMA FLASHING MEMBRANE.
P2	PIPE PENETRATION (1"- 3")	1/503DT	PREP AND PRIME. FLASH W/ LIQUID-APPLIED, FABRIC REINFORCED, 2-COAT PMMA FLASHING MEMBRANE.
P3	INSULATED PIPES APPROX. 8"DIA, PLUS INSUL	1/503DT	PREP AND PRIME. FLASH W/ LIQUID-APPLIED, FABRIC REINFORCED, 2-COAT PMMA FLASHING MEMBRANE.
P4	CONDUIT PENETRATION (3")	3/503DT	PREP AND PRIME. FLASH W/ LIQUID-APPLIED, FABRIC REINFORCED, 2-COAT PMMA FLASHING MEMBRANE.
P5	CONDUIT PENETRATION (1")	3/503DT	PREP AND PRIME. FLASH W/ LIQUID-APPLIED, FABRIC REINFORCED, 2-COAT PMMA FLASHING MEMBRANE.
P6	LIGHTNING PROTECTION PENETRTION (1.5")	2/503DT	PREP AND PRIME. FLASH W/ LIQUID-APPLIED, FABRIC REINFORCED, 2-COAT PMMA FLASHING MEMBRANE.
P7	EQUIPMENT SUPPORT, ROUND OR SQUARE STL. TUBE (2"-4")	4/503DT	PREP AND PRIME. FLASH W/ LIQUID-APPLIED, FABRIC REINFORCED, 2-COAT PMMA FLASHING MEMBRANE. PREP, PRIME, & PAINT EXPOSED STEEL SUPPORT AND CROSSBEAM
P8	THROUGH-WALL SCUPPER	8/501DT	FLASH TO ETR STAINLESS STEEL SCUPPER FABRICATION

NON-PENETRATING ROOF ELEMENT SCHEDULE			
MARK	DESCRIPTION	DETAIL	REMARKS
N1	FALL PROTECTION RAILING W/ COUNTERWEIGHTS AND ROOF PROTECTION PADS	SEE REMARKS	REMOVE OR RELOCATE. REINSTALL IN ORIGINAL LOCATION AT COMPLETION OF WORK
N2	WALKWAY PADS	SEE REMARKS	PROVIDE EPDM WALK-PAD WALKWAY IN INDICATED LAYOUT
N3	DUCTS / PIPES ABOVE ROOF LEVEL ETR	SEE REMARKS	PROTECT DUCTS/PIPES DURING WORK

ROOF CURB SCHEDULE			
MARK	DESCRIPTION	DETAIL	REMARKS
C1	DUCT PENETRATION W/CURB	5/503DT	FLASH W/ LIQUID-APPLIED, FABRIC REINFORCED, 2-COAT PMMA FLASHING MEMBRANE OVER SELF-ADHERED SANDED BITUMINOUS MEMBRANE. PROVIDE S.S. COUNTERFLASHING
C2	RECTANGULAR CURB SUPPORTING EQUIPMENT	SEE REMARKS	FLASH W/ LIQUID-APPLIED, FABRIC REINFORCED, 2-COAT PMMA FLASHING MEMBRANE OVER SELF-ADHERED SANDED BITUMINOUS MEMBRANE. PROVIDE S.S. COUNTERFLASHING
C3	FAN SUPPORTED ON CURB	SEE REMARKS	FLASH W/ LIQUID-APPLIED, FABRIC REINFORCED, 2-COAT PMMA FLASHING MEMBRANE OVER SELF-ADHERED SANDED BITUMINOUS MEMBRANE. PROVIDE S.S. COUNTERFLASHING
C4	ROOF SCUTTLE (HATCH)	6/503DT	FLASH W/ LIQUID-APPLIED, FABRIC REINFORCED, 2-COAT PMMA FLASHING MEMBRANE OVER SELF-ADHERED SANDED BITUMINOUS MEMBRANE. PROVIDE S.S. COUNTERFLASHING

ROOF DRAIN SCHEDULE			
MARK	DESCRIPTION	DETAIL	REMARKS
D1	ROOF DRAIN	3/A501DT	DEMO EXST STRAINER AND CLAMPING RING. PROVIDE STAINLESS STEEL RETROFIT DRAIN WITH PIPE SEALED INTO EXTG. DRAIN LINE.
D2	OVERFLOW ROOF DRAIN	3/A501DT	DEMO EXST STRAINER AND CLAMPING RING. PROVIDE STAINLESS STEEL RETROFIT DRAIN WITH PIPE SEALED INTO EXTG. DRAIN LINE.

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STAMP

KEY PLAN

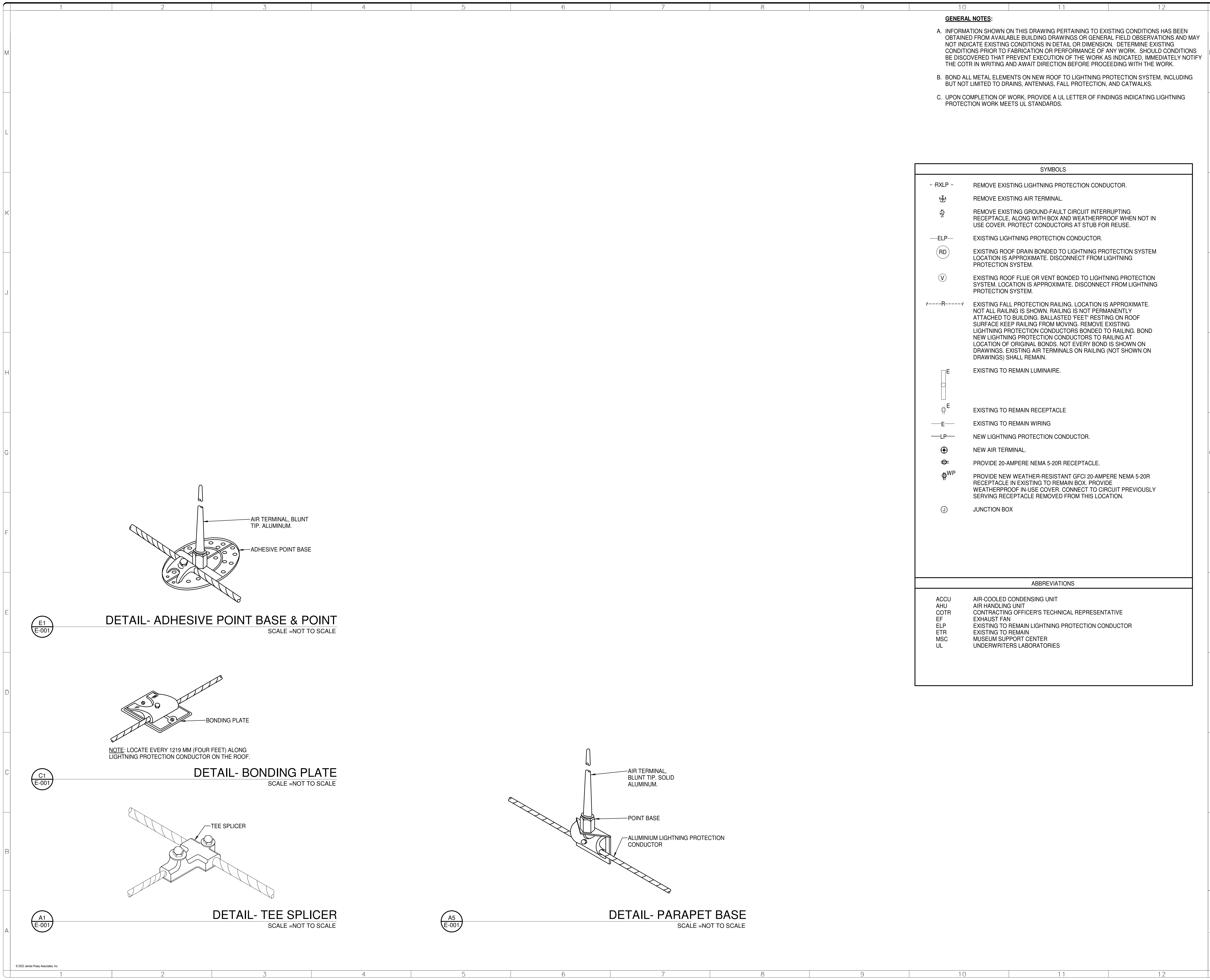
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DATE	03/15/23	SUBMISSION	Final Submission
REVISION #		REVISION DESCRIPTION	

Smithsonian Institution

Smithsonian Facilities
600 Maryland Avenue S.W. Suite 5001
Washington, DC 20024-2520

BUILDING NAME	MSC
ADDRESS	4210 SILVER HILL ROAD SUITLAND, MD 20560
PROJECT TITLE	REPLACE POD 5 ROOF
SF PROJECT NUMBER	2030101
A/E PROJECT NUMBER	1401.52
DRAWING TITLE	SCHEDULES
DRAWING STAFF	JF AM RW
SHEET NO.	A 601SH
	9 of 12



GENERAL NOTES:

- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE COTR IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- B. BOND ALL METAL ELEMENTS ON NEW ROOF TO LIGHTNING PROTECTION SYSTEM, INCLUDING BUT NOT LIMITED TO DRAINS, ANTENNAS, FALL PROTECTION, AND CATWALKS.
- C. UPON COMPLETION OF WORK, PROVIDE A UL LETTER OF FINDINGS INDICATING LIGHTNING PROTECTION WORK MEETS UL STANDARDS.

SYMBOLS

- RXLP -	REMOVE EXISTING LIGHTNING PROTECTION CONDUCTOR.
	REMOVE EXISTING AIR TERMINAL.
	REMOVE EXISTING GROUND-FAULT CIRCUIT INTERRUPTING RECEPTACLE, ALONG WITH BOX AND WEATHERPROOF WHEN NOT IN USE COVER. PROTECT CONDUCTORS AT STUB FOR REUSE.
- ELP -	EXISTING LIGHTNING PROTECTION CONDUCTOR.
	EXISTING ROOF DRAIN BONDED TO LIGHTNING PROTECTION SYSTEM LOCATION IS APPROXIMATE. DISCONNECT FROM LIGHTNING PROTECTION SYSTEM.
	EXISTING ROOF FLUE OR VENT BONDED TO LIGHTNING PROTECTION SYSTEM. LOCATION IS APPROXIMATE. DISCONNECT FROM LIGHTNING PROTECTION SYSTEM.
	EXISTING FALL PROTECTION RAILING. LOCATION IS APPROXIMATE. NOT ALL RAILING IS SHOWN. RAILING IS NOT PERMANENTLY ATTACHED TO BUILDING. BALLASTED 'FEET' RESTING ON ROOF SURFACE KEEP RAILING FROM MOVING. REMOVE EXISTING LIGHTNING PROTECTION CONDUCTORS BONDED TO RAILING. BOND NEW LIGHTNING PROTECTION CONDUCTORS TO RAILING AT LOCATION OF ORIGINAL BONDS. NOT EVERY BOND IS SHOWN ON DRAWINGS. EXISTING AIR TERMINALS ON RAILING (NOT SHOWN ON DRAWINGS) SHALL REMAIN.
	EXISTING TO REMAIN LUMINAIRE.
	EXISTING TO REMAIN RECEPTACLE
- E -	EXISTING TO REMAIN WIRING
- LP -	NEW LIGHTNING PROTECTION CONDUCTOR.
	NEW AIR TERMINAL.
	PROVIDE 20-AMPERE NEMA 5-20R RECEPTACLE.
	PROVIDE NEW WEATHER-RESISTANT GFCI 20-AMPERE NEMA 5-20R RECEPTACLE IN EXISTING TO REMAIN BOX. PROVIDE WEATHERPROOF IN-USE COVER. CONNECT TO CIRCUIT PREVIOUSLY SERVING RECEPTACLE REMOVED FROM THIS LOCATION.
	JUNCTION BOX

ABBREVIATIONS

ACCU	AIR-COOLED CONDENSING UNIT
AHU	AIR HANDLING UNIT
COTR	CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE
EF	EXHAUST FAN
ELP	EXISTING TO REMAIN LIGHTNING PROTECTION CONDUCTOR
ETR	EXISTING TO REMAIN
MSC	MUSEUM SUPPORT CENTER
UL	UNDERWRITERS LABORATORIES

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 jamesposey.com

KEY PLAN

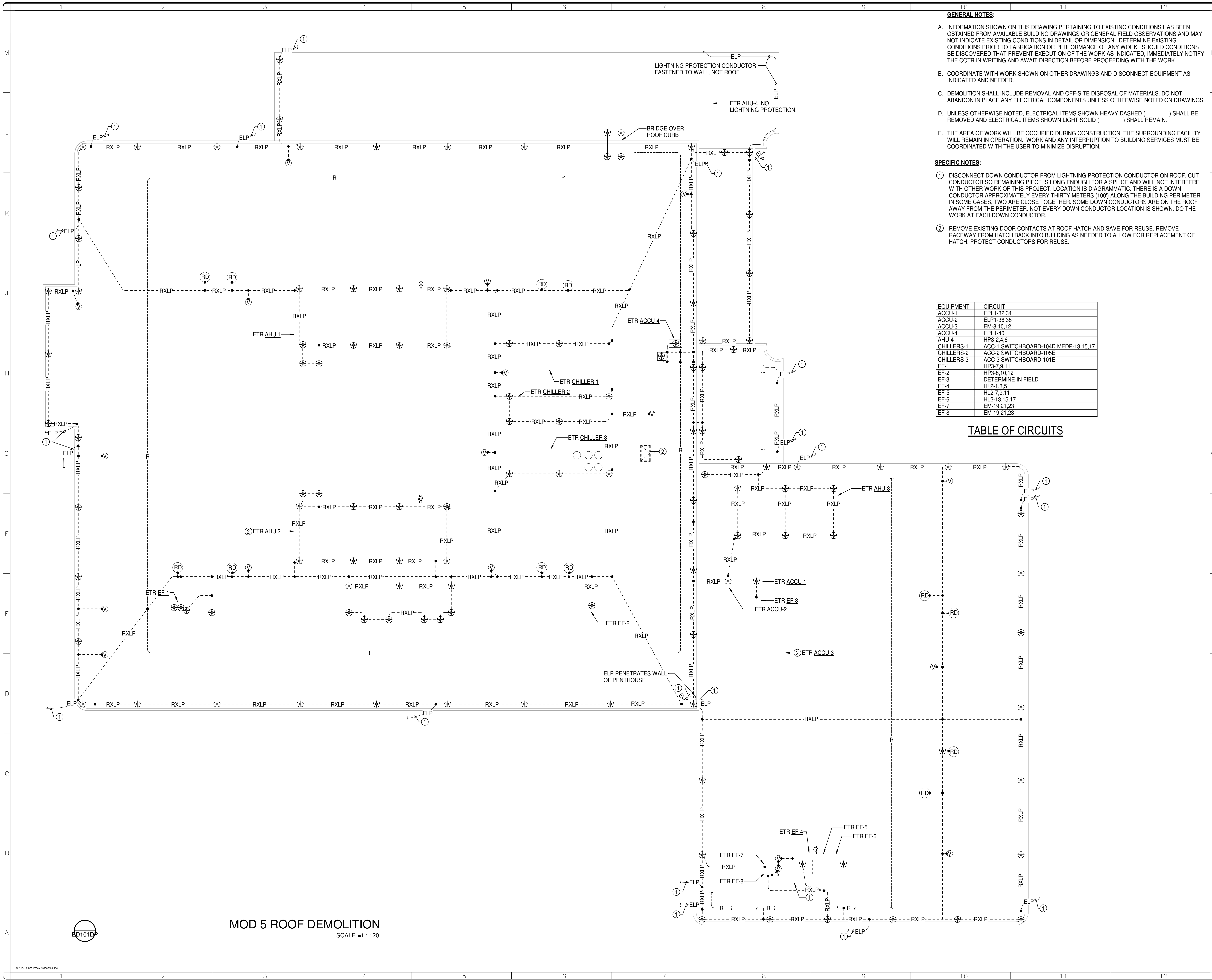
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DATE	03/15/23	SUBMISSION	Final Submission
REVISION #		REVISION DESCRIPTION	

Smithsonian Institution
 Smithsonian Facilities
 600 Maryland Avenue S.W., Suite 5001
 Washington, DC 20024-2520

BUILDING NAME	MSC
ADDRESS	4210 Silver Hill Road Suitland, MD 20560
PROJECT TITLE	REPLACE POD 5 ROOF
SF PROJECT NUMBER	2030101
A/E PROJECT NUMBER	1401.52
DRAWING TITLE	ELECTRICAL SYMBOLS AND DETAILS
WORKING STAFF	MRH EJS TMC
SHEET NO.	E - 001
10 of 12	

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E-001 R1 TO 03/15/23 Final Submission

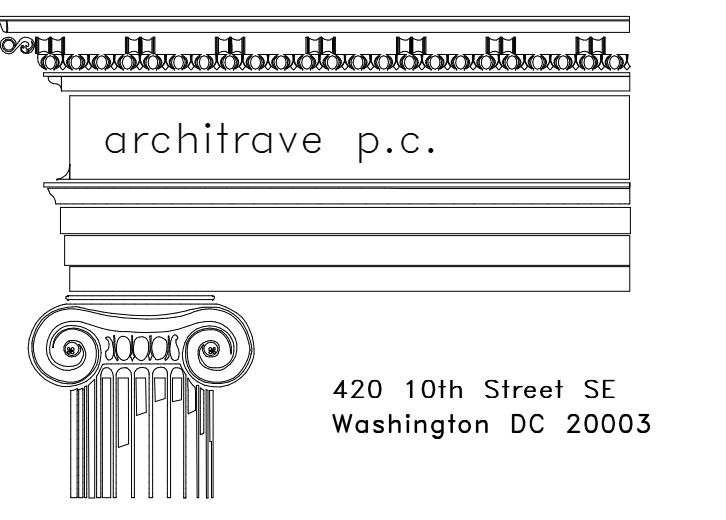


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- A. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE EXISTING CONDITIONS IN DETAIL OR DIMENSION. DETERMINE EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, IMMEDIATELY NOTIFY THE COITR IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
 - B. COORDINATE WITH WORK SHOWN ON OTHER DRAWINGS AND DISCONNECT EQUIPMENT AS INDICATED AND NEEDED.
 - C. DEMOLITION SHALL INCLUDE REMOVAL AND OFF-SITE DISPOSAL OF MATERIALS. DO NOT ABANDON IN PLACE ANY ELECTRICAL COMPONENTS UNLESS OTHERWISE NOTED ON DRAWINGS.
 - D. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY DASHED (-----) SHALL BE REMOVED AND ELECTRICAL ITEMS SHOWN LIGHT SOLID (——) SHALL REMAIN.
 - E. THE AREA OF WORK WILL BE OCCUPIED DURING CONSTRUCTION, THE SURROUNDING FACILITY WILL REMAIN IN OPERATION. WORK AND ANY INTERRUPTION TO BUILDING SERVICES MUST BE COORDINATED WITH THE USER TO MINIMIZE DISRUPTION.

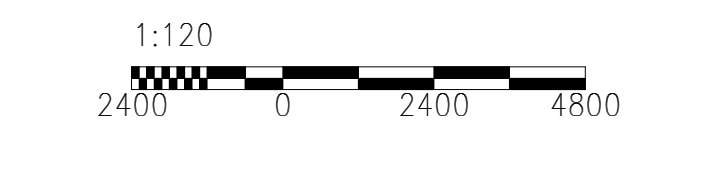
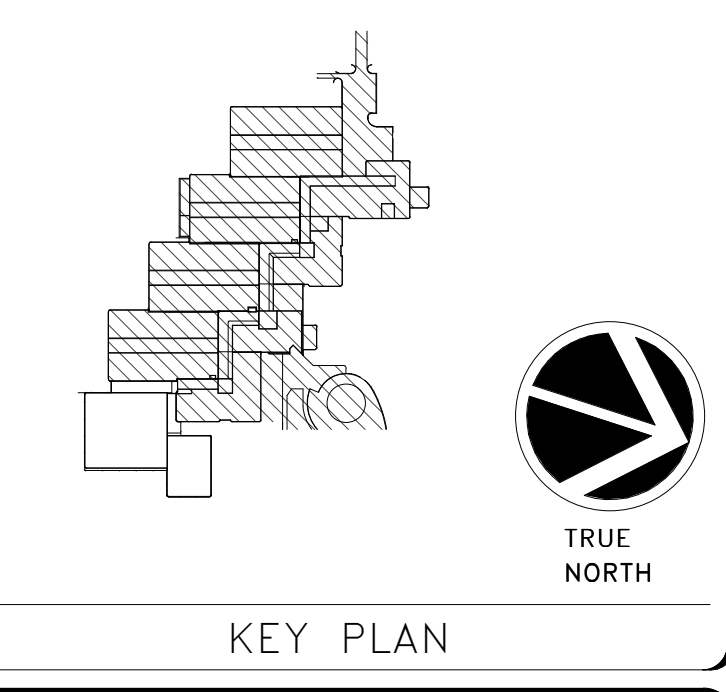
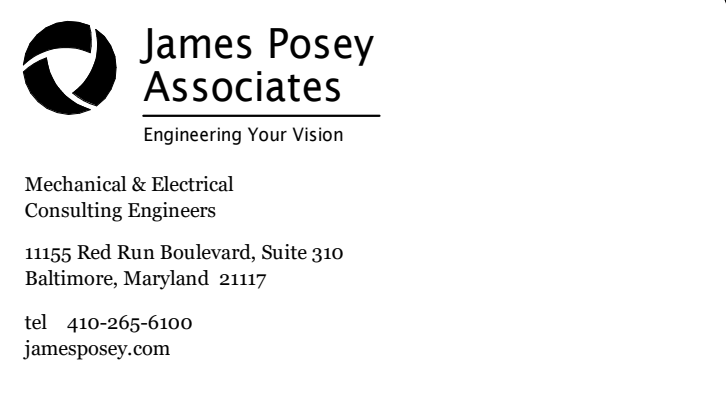
- SPECIFIC NOTES:**
- ① DISCONNECT DOWN CONDUCTOR FROM LIGHTNING PROTECTION CONDUCTOR ON ROOF. CUT CONDUCTOR SO REMAINING PIECE IS LONG ENOUGH FOR A SPLICE AND WILL NOT INTERFERE WITH OTHER WORK OF THIS PROJECT. LOCATION IS DIAGRAMMATIC. THERE IS A DOWN CONDUCTOR APPROXIMATELY EVERY THIRTY METERS (100') ALONG THE BUILDING PERIMETER. IN SOME CASES, TWO ARE CLOSE TOGETHER. SOME DOWN CONDUCTORS ARE ON THE ROOF AWAY FROM THE PERIMETER. NOT EVERY DOWN CONDUCTOR LOCATION IS SHOWN. DO THE WORK AT EACH DOWN CONDUCTOR.
 - ② REMOVE EXISTING DOOR CONTACTS AT ROOF HATCH AND SAVE FOR REUSE. REMOVE RACEWAY FROM HATCH BACK INTO BUILDING AS NEEDED TO ALLOW FOR REPLACEMENT OF HATCH. PROTECT CONDUCTORS FOR REUSE.

EQUIPMENT	CIRCUIT
ACCU-1	EPL1-32,34
ACCU-2	ELP1-36,38
ACCU-3	EM-8,10,12
ACCU-4	EPL1-40
AHU-4	HP3-2,4,6
CHILLERS-1	ACC-1 SWITCHBOARD-104D MEDP-13,15,17
CHILLERS-2	ACC-2 SWITCHBOARD-105E
CHILLERS-3	ACC-3 SWITCHBOARD-101E
EF-1	HP3-7,9,11
EF-2	HP3-8,10,12
EF-3	DETERMINE IN FIELD
EF-4	HL2-1,3,5
EF-5	HL2-7,9,11
EF-6	HL2-13,15,17
EF-7	EM-19,21,23
EF-8	EM-19,21,23

TABLE OF CIRCUITS



FOR CONSTRUCTION



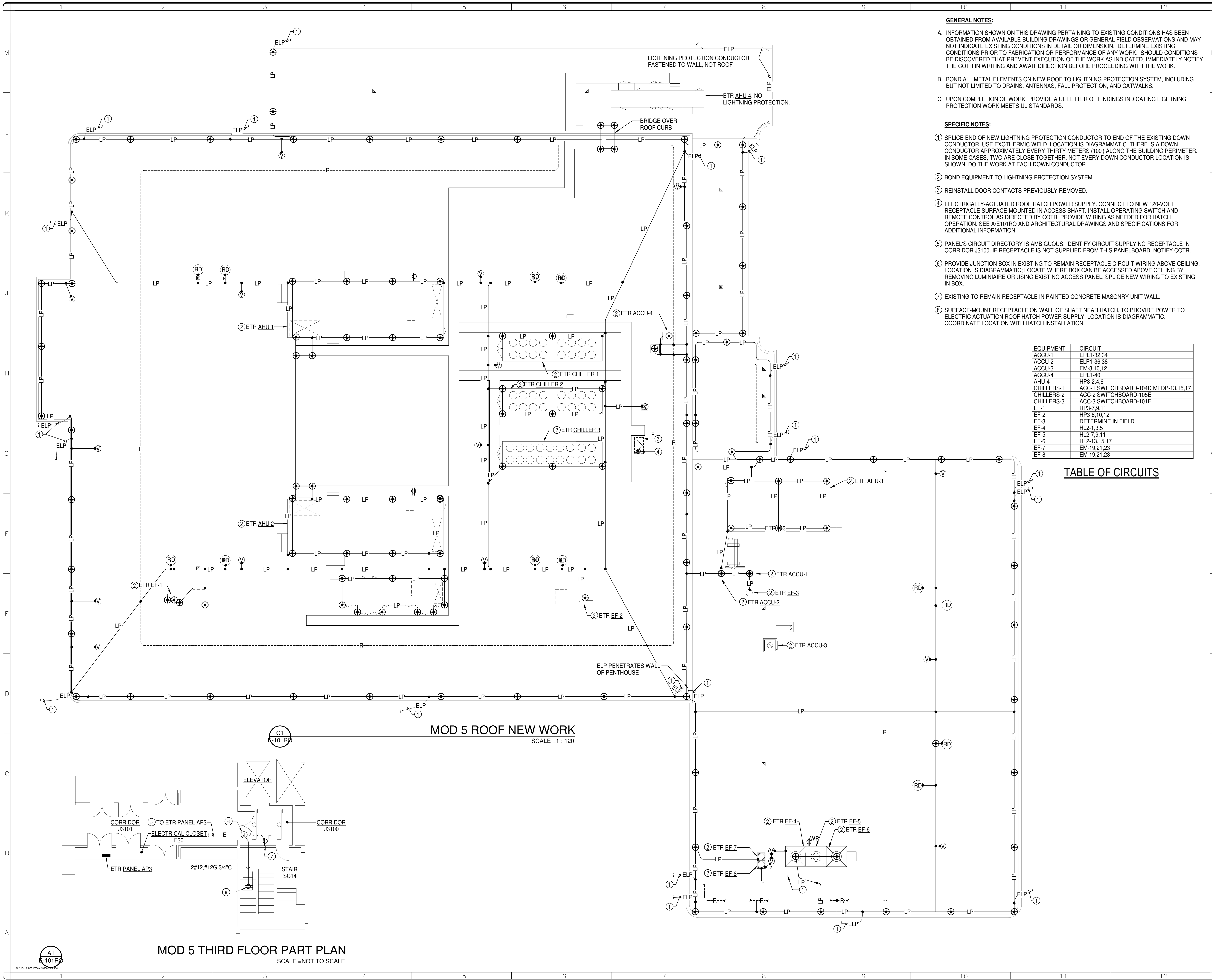
DATE	03/15/23	SUBMISSION	Final Submission
REVISION #		REVISION DESCRIPTION	



BUILDING NAME	MSC
ADDRESS	4210 Silver Hill Road, Suitland, MD 20560
PROJECT TITLE	REPLACE POD 5 ROOF
SF PROJECT NUMBER	2030101
A/E PROJECT NUMBER	1401.52
DRAWING TITLE	ROOF PLAN - DEMOLITION
WORKING STAFF	MRH EJS TMC
SHEET NO.	ED101DP
11 of 12	

5/21/23 8:23:54 AM ED101DP BY 11 03/15/23 Final Submission

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GENERAL NOTES:

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B. BOND ALL METAL ELEMENTS ON NEW ROOF TO LIGHTNING PROTECTION SYSTEM, INCLUDING BUT NOT LIMITED TO DRAINS, ANTENNAS, FALL PROTECTION, AND CATWALKS.

C. UPON COMPLETION OF WORK, PROVIDE A UL LETTER OF FINDINGS INDICATING LIGHTNING PROTECTION WORK MEETS UL STANDARDS.

SPECIFIC NOTES:

① SPLICE END OF NEW LIGHTNING PROTECTION CONDUCTOR TO END OF THE EXISTING DOWN CONDUCTOR. USE EXOTHERMIC WELD. LOCATION IS DIAGRAMMATIC. THERE IS A DOWN CONDUCTOR APPROXIMATELY EVERY THIRTY METERS (100') ALONG THE BUILDING PERIMETER. IN SOME CASES, TWO ARE CLOSE TOGETHER. NOT EVERY DOWN CONDUCTOR LOCATION IS SHOWN. DO THE WORK AT EACH DOWN CONDUCTOR.

② BOND EQUIPMENT TO LIGHTNING PROTECTION SYSTEM.

③ REINSTALL DOOR CONTACTS PREVIOUSLY REMOVED.

④ ELECTRICALLY-ACTUATED ROOF HATCH POWER SUPPLY. CONNECT TO NEW 120-VOLT RECEPTACLE SURFACE-MOUNTED IN ACCESS SHAFT. INSTALL OPERATING SWITCH AND REMOTE CONTROL AS DIRECTED BY CO/TR. PROVIDE WIRING AS NEEDED FOR HATCH OPERATION. SEE A/E 101R0 AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

⑤ PANEL'S CIRCUIT DIRECTORY IS AMBIGUOUS. IDENTIFY CIRCUIT SUPPLYING RECEPTACLE IN CORRIDOR J3100. IF RECEPTACLE IS NOT SUPPLIED FROM THIS PANELBOARD, NOTIFY CO/TR.

⑥ PROVIDE JUNCTION BOX IN EXISTING TO REMAIN RECEPTACLE CIRCUIT WIRING ABOVE CEILING. LOCATION IS DIAGRAMMATIC; LOCATE WHERE BOX CAN BE ACCESSED ABOVE CEILING BY REMOVING LUMINAIRE OR USING EXISTING ACCESS PANEL. SPLICE NEW WIRING TO EXISTING IN BOX.

⑦ EXISTING TO REMAIN RECEPTACLE IN PAINTED CONCRETE MASONRY UNIT WALL.

⑧ SURFACE-MOUNT RECEPTACLE ON WALL OF SHAFT NEAR HATCH, TO PROVIDE POWER TO ELECTRIC ACTUATION ROOF HATCH POWER SUPPLY. LOCATION IS DIAGRAMMATIC. COORDINATE LOCATION WITH HATCH INSTALLATION.

EQUIPMENT	CIRCUIT
ACCU-1	EPL1-32,34
ACCU-2	EPL1-36,38
ACCU-3	EM-8,10,12
ACCU-4	EPL1-40
AHU-4	HP3-2,4,6
CHILLERS-1	ACC-1 SWITCHBOARD-104D MEDP-13,15,17
CHILLERS-2	ACC-2 SWITCHBOARD-105E
CHILLERS-3	ACC-3 SWITCHBOARD-101E
EF-1	HP3-7,9,11
EF-2	HP3-8,10,12
EF-3	DETERMINE IN FIELD
EF-4	HL2-1,3,5
EF-5	HL2-7,9,11
EF-6	HL2-13,15,17
EF-7	EM-19,21,23
EF-8	EM-19,21,23

TABLE OF CIRCUITS

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STATE OF MARYLAND
 PROFESSIONAL ENGINEER
 JAMES POSEY
 2250

KEY PLAN

TRUE NORTH

1:120
 2400 0 2400 4800

GRAPHIC SCALE(S)

DATE	03/15/23	SUBMISSION	Final Submission
REVISION #		REVISION DESCRIPTION	

Smithsonian Institution

Smithsonian Facilities
 600 Maryland Avenue S.W., Suite 5001
 Washington, DC 20024-2520

BUILDING NAME	MSC
ADDRESS	4210 Silver Hill Road Suitland, MD 20560
PROJECT TITLE	REPLACE POD 5 ROOF
SF PROJECT NUMBER	2030101
A/E PROJECT NUMBER	1401.52
DRAWING TITLE	ROOF PLAN - NEW WORK
WORKING STAFF	MRH EJS TMC
SHEET NO.	E-101R0
12 of 12	

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 E-101R0 R112 03/15/23 Final Submission

A1
 E-101R0

MOD 5 THIRD FLOOR PART PLAN
 SCALE = NOT TO SCALE

MOD 5 ROOF NEW WORK
 SCALE = 1 : 120