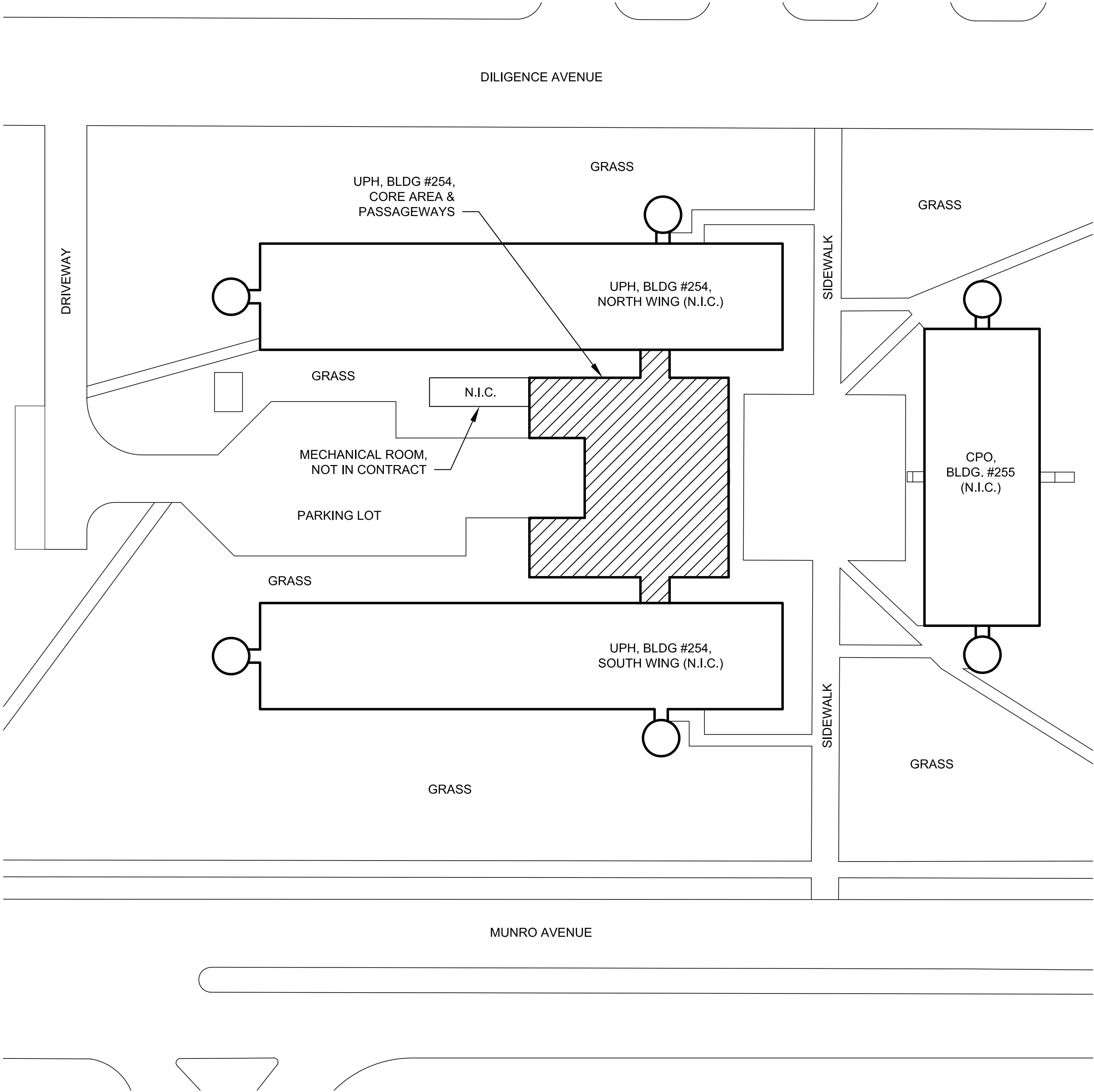


REPLACE UPH CORE ROOF  
AND HVAC UNITS



BUILDING #254,  
SITE PLAN

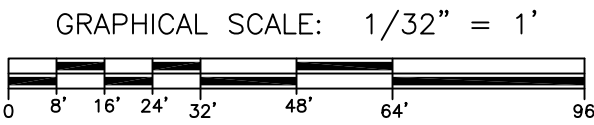
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GENERAL NOTES:

- THE INFORMATION PROVIDED ON THE CONTRACT DRAWINGS IS BELIEVED TO BE CORRECT. HOWEVER, THE CONTRACTOR SHALL FIELD VERIFY ALL INFORMATION.
- TWO PRE-BID SITE VISITS WILL BE SCHEDULED BY THE OWNER. THE FIRST PRE-BID SITE VISIT WILL BE HELD APPROXIMATELY TWO WEEKS AFTER THE RELEASE OF THE SOLICITATION. THE SECOND PRE-BID SITE VISIT WILL BE HELD APPROXIMATELY THREE WEEKS AFTER THE RELEASE OF THE SOLICITATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE PROJECT ENGINEER, STEVEN MCKAIG, FACILITIES ENGINEERING, DESIGN SECTION, AT 609-898-6408 OR STEVEN.C.MCKAIG@USCG.MIL TO OBTAIN THE SPECIFIC DATES, AS NO OTHER SITE VISITS WILL BE SCHEDULED.
- CONTRACTOR SHALL PROVIDE A COMPLETE EPDM ROOF SYSTEM. ALL WORK SHALL COMPLY WITH THE ROOFING MANUFACTURER'S INSTALLATION REQUIREMENTS. IF MANUFACTURER DETAILS DIFFER FROM CONTRACT DRAWING DETAILS, FOLLOW MANUFACTURER DETAILS. ALL DEVIATIONS FROM THE MANUFACTURER'S STANDARD INSTALLATION INSTRUCTIONS SHALL BE PRE-APPROVED BY THE MANUFACTURER AND SHALL NOT AFFECT THE ROOF WARRANTY.
- NEW ROOF SYSTEM SHALL BE COVERED BY A MANUFACTURER 20-YEAR WARRANTY.
- GOVERNMENT RESERVES THE RIGHT TO SALVAGE DEMOLISHED EXHAUST FANS DEPENDING ON CONDITION.
- RESTORE ALL DISTURBED AREAS TO THEIR ORIGINAL CONDITION. BROKEN SECTIONS OF CONCRETE SIDEWALK SHALL BE REPLACED IN THEIR ENTIRETY (BETWEEN EXPANSION JOINTS). SIMPLY PATCHING SIDEWALK SECTIONS IS NOT ACCEPTABLE. RUTS LEFT BY TRUCKS OR EQUIPMENT SHALL BE GRADED SMOOTH. TOPSOIL SHALL BE ADDED AS NECESSARY TO BRING THE AFFECTED AREAS BACK TO THE ORIGINAL GRADE. PLANT PERENNIAL GRASS SEED IN ALL DISTURBED GRASS AREAS.

- LEGEND
- EXHAUST FAN
  - ROOF DRAIN, 3" CAST IRON
  - ROOF VENT, CAST IRON, SIZE INDICATED
  - ROOF SLOPE DIRECTION
  - NOT IN CONTRACT

DRAWING INDEX	
SHEET NO.	DESCRIPTION
A/1	SITE PLAN
A/2	ROOF PLAN
A/3	ORIGINAL CONSTRUCTION ROOF SECTIONS
A/4	NEW ROOF SECTIONS
A/5	ROOF DETAILS
M/1	MECHANICAL WORK PLANS
M/2	MECHANICAL EQUIPMENT SCHEDULES
E/1	ELECTRICAL WORK PLANS



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ISSUE		
MARK	DATE	DESCRIPTION

A/E PROJECT NO:	CMS-1573
CAD FILE NAME:	
DESIGNED BY:	SCM
DRAWN BY:	SCM
EDITED BY:	
CHECKED BY:	

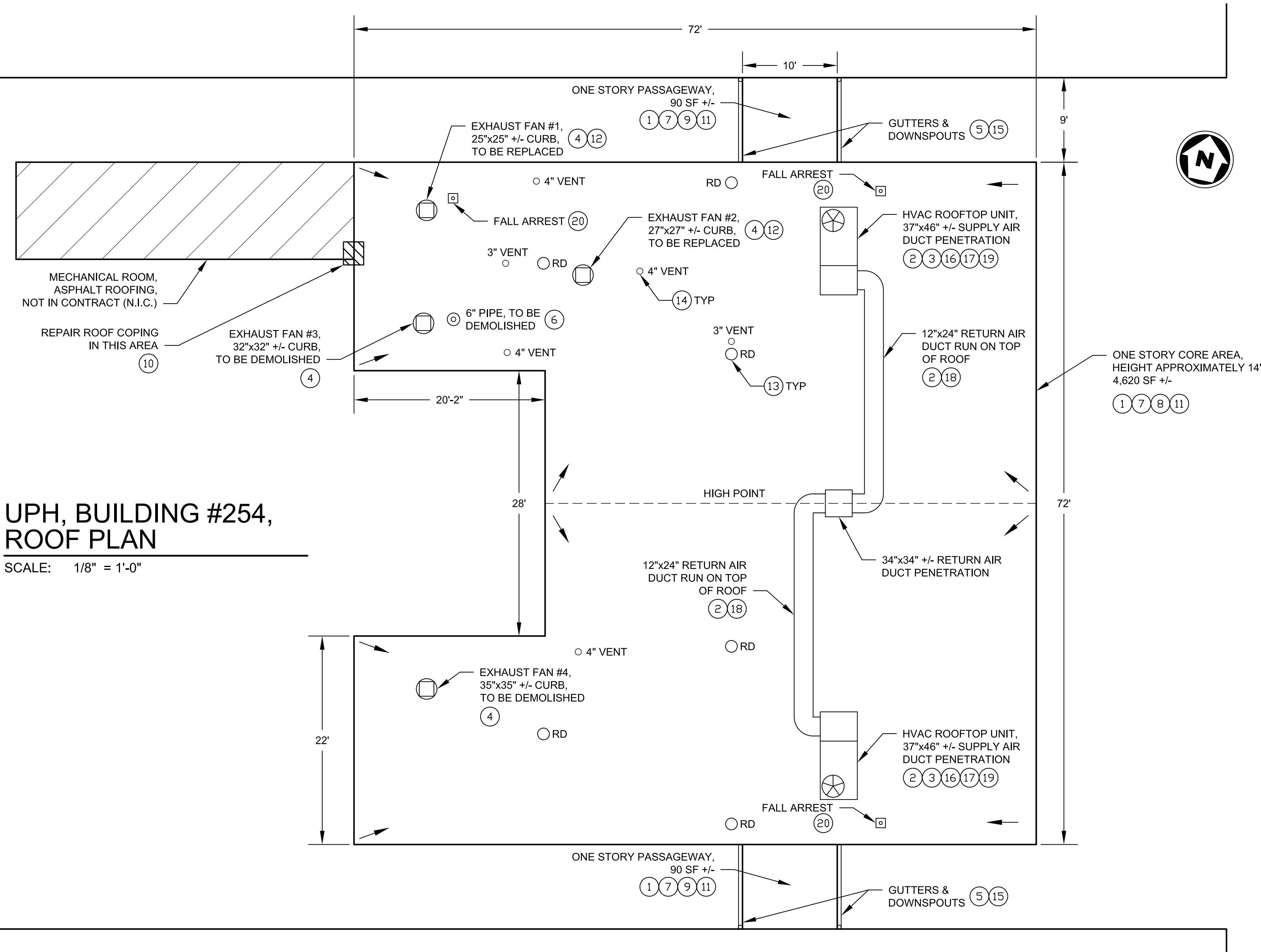
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SHEET TITLE

REPLACE UPH CORE ROOF & HVAC  
TRACEN  
CAPE MAY NEW JERSEY  
UPH, BUILDING #254  
ARCHITECTURAL  
SITE PLAN

PROJECT ENG.	BRANCH CHIEF
APPROVING OFFICER	8/2/19 DATE

PROJECT NUMBER	DRAWING NUMBER
11368923	T-7102-AD
DISCIPLINE/SHT NO	SHEET 1 OF 8
A/1	



UPH, BUILDING #254,  
ROOF PLAN  
SCALE: 1/8" = 1'-0"

CONSTRUCTION NOTES (1)

1. DEMOLISH EXISTING ROOFING DOWN TO CONCRETE STRUCTURAL DECK. EXISTING ROOFING CONSISTS OF SPRAY-ON URETHANE FOAM OVER BUILT-UP ROOFING OVER RIGID INSULATION. THE BUILT-UP ROOFING MATERIAL HAS BEEN TESTED AND DOES NOT CONTAIN ASBESTOS. REFER TO DETAILS.

2. DEMOLISH TWO EXISTING 5 TON ROOFTOP HVAC UNITS INCLUDING SUPPORTS AND CURBS. DEMOLISH ROOF MOUNTED RETURN AIR DUCTWORK AND ASSOCIATED CURBS.

3. THE EXISTING ELECTRIC FEEDERS AND FIRE ALARM CONTROL WIRING FOR THE ROOFTOP HVAC UNITS ARE RUN ON THE ROOF, BUT ARE NOT SHOWN ON THIS DRAWING. DEMOLISH EXISTING ELECTRIC FEEDERS AND CONTROL WIRING. PROVIDE NEW FEEDERS AND CONTROL WIRING RUN INSIDE THE BUILDING. PATCH HOLES IN ROOF AND SIDE WALL. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.

4. DEMOLISH ALL FOUR EXISTING EXHAUST FANS. COVER ROOF OPENING WITH 1/4 INCH THICK GALVANIZED STEEL PLATE AT EXHAUST FAN LOCATIONS #3 & #4. ANCHOR PLATE TO CONCRETE DECK. REFER TO ELECTRICAL DRAWINGS FOR CIRCUIT DEMOLITION.

5. DEMOLISH EXISTING GUTTERS AND DOWNSPOUTS ON CORE PASSAGEWAYS.

6. DEMOLISH ONE ABANDONED 6" CAST IRON VENT PIPE. EXISTING PIPE IS CUT OFF JUST UNDER STRUCTURAL ROOF. PATCH HOLE IN ROOF.

7. PROVIDE A NEW FULLY ADHERED, ETHYLENE PROPYLENE DIENE MONOMER (EPDM) ROOF SYSTEM INCLUDING EPDM MEMBRANE, COVER BOARD, RIGID INSULATION, CANT STRIPS, CRICKETS, WOOD NAILERS, ETC. REFER TO DETAILS.
8. FOR CORE AREA, ROOF SYSTEM MANUFACTURER SHALL SUBMIT SHOP DRAWINGS SHOWING TAPERED INSULATION LAYOUT TO CREATE 1/8 INCH PER FOOT SLOPE (MINIMUM) TO ROOF DRAINS. RIGID INSULATION ON CORE AREA ROOF SHALL HAVE A MINIMUM THICKNESS OF TWO (2) INCHES. THE CORE AREA STRUCTURAL ROOF WAS BUILT WITH NO SLOPE.

9. THE STRUCTURAL CONCRETE DECK ON THE PASSAGEWAYS IS SLOPED AS SHOWN. THERE IS NO NEED TO CREATE ADDITIONAL PITCH USING TAPERED INSULATION. RIGID INSULATION ON THE PASSAGEWAYS SHALL BE ONE (1) INCH THICK.

10. THE EXISTING ASPHALT ROOFING MATERIAL AND ALUMINUM WALL CAP ON THE MECHANICAL ROOM ROOF OVERLAPS THE CORE ROOF PARAPET WALL. REMOVE EXISTING CAULK / PATCH IN AREA SHOWN AND REPAIR INTERFACE AT PARAPET WALL. IF NECESSARY, PROVIDE NEW FLASHING AND/OR ASPHALT ROOFING MATERIAL ALONG REMAINDER OF COMMON WALL FOR WEATHERPROOF INTERFACE BETWEEN EXISTING MECHANICAL ROOM ROOF AND NEW ROOF.

11. REPLACE EXISTING CAULK, FLASHING, COUNTER FLASHING, TERMINATION BARS, ETC. AROUND ENTIRE PERIMETER.

12. REPLACE EXISTING CURBS AND ALUMINUM FLASHING AT EXHAUST FAN LOCATIONS #1 & #2. PROVIDE GRAVITY DAMPERS MOUNTED IN CURBS. PROVIDE TWO NEW EXHAUST FANS AND CONNECT TO EXISTING ELECTRIC CIRCUITS. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS.

13. REPLACE EXISTING CAST IRON ROOF DRAIN BASKET STRAINERS AND EXTENSIONS. REPLACE ANY BROKEN ROOF DRAIN DECK CLAMPS. PROVIDE NEW MORTAR IN GAP BETWEEN CONCRETE ROOF AND DRAIN BASKET.

14. EXTEND ALL CAST IRON VENT PIPING AS NECESSARY SUCH THAT TOP OF VENT IS 12 INCHES ABOVE THE NEW FINISHED ROOF. SOME OF THE VENTS ALREADY HAVE EXTENSIONS WHICH MAY NEED TO BE REPLACED. PROVIDE NEW PREFORMED EPDM BOOTS.
15. PROVIDE NEW DARK BRONZE, SEAMLESS, 5" K, ALUMINUM GUTTERS AND 2"x3" DOWNSPOUTS. PROVIDE GUTTERS ON BOTH THE EAST AND WEST SIDES OF EACH PASSAGEWAY. PROVIDE NEW CONCRETE SPLASH BLOCKS. REFER TO DETAILS.

16. PROVIDE TWO NEW ROOFTOP HVAC UNITS. PROVIDE NEW CURBS CAPABLE OF SUPPORTING THE ROOFTOP UNITS. THE NEW CURB SHALL ENCOMPASS THE SUPPLY AIR DUCT. THE NEW CURB HEIGHT SHALL BE A MINIMUM OF 24" ABOVE THE NEW FINISHED ROOF. PROVIDE NEW AIR SUPPLY DUCT TO NEW ROOFTOP UNIT. PROVIDE NEW PVC CONDENSATE PIPING WITH TRAP AND RUN PIPING TO NEAREST ROOF DRAIN. PROVIDE RUBBER PIPING SUPPORTS SPECIFICALLY DESIGNED FOR THIS PURPOSE SPACED FOUR FEET O.C. REFER TO MECHANICAL DRAWINGS.

17. PROVIDE 4'x4' EPDM MATS / PADS IN FRONT OF EACH ACCESS PANEL(S) FOR EACH ROOFTOP UNIT FOR ADDED PROTECTION.

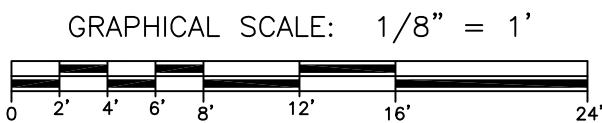
18. PROVIDE NEW ROOF MOUNTED RETURN AIR DUCTWORK AND CURB AT ROOF PENETRATION. PROVIDE DUCT SUPPORT SYSTEM THAT IS ACCEPTABLE TO THE EPDM ROOF MANUFACTURER. PROVIDE EPDM MATS / PADS UNDER DUCT SUPPORTS FOR ADDED PROTECTION.

19. PROVIDE NEW ELECTRICAL BRANCH CIRCUIT TO EACH ROOFTOP UNIT. PROVIDE NEW FIRE ALARM CONTROL WIRING TO EACH ROOFTOP UNIT. RUN NEW POWER AND FIRE ALARM WIRING INSIDE BUILDING. REFER TO ELECTRICAL DRAWINGS.

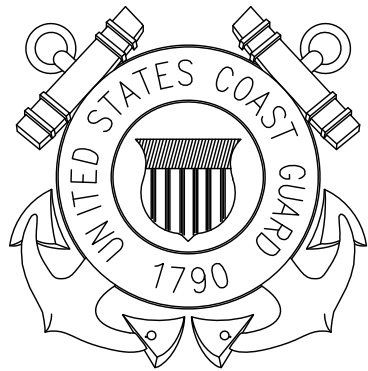
20. PROVIDE THREE NEW SAFETY FALL ARREST TIE-OFF POINTS. MOUNT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. THE TIE-OFF POINTS WILL BE MOUNTED TO A PARTIALLY HOLLOW CORE CONCRETE ROOF SLAB (SEE DRAWING A5). COORDINATE EXACT LOCATIONS WITH THE CONTRACTING OFFICER'S REPRESENTATIVE.

GENERAL NOTE:

CURB DIMENSIONS SHOWN ARE THE APPROXIMATE MEASUREMENTS FOR THE EXISTING BASE CURBS. SEVERAL EXISTING CURBS USE CURB ADAPTORS FOR THE ACTUAL EQUIPMENT. CONTRACTOR SHALL FIELD MEASURE ALL BASE CURBS AND CURB ADAPTORS AND PROVIDE PROPERLY SIZED BASE CURBS AND ADAPTORS AS REQUIRED.



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A/E PROJECT NO: CMS-1573

CAD FILE NAME:

DESIGNED BY: SCM

DRAWN BY: SCM

EDITED BY:

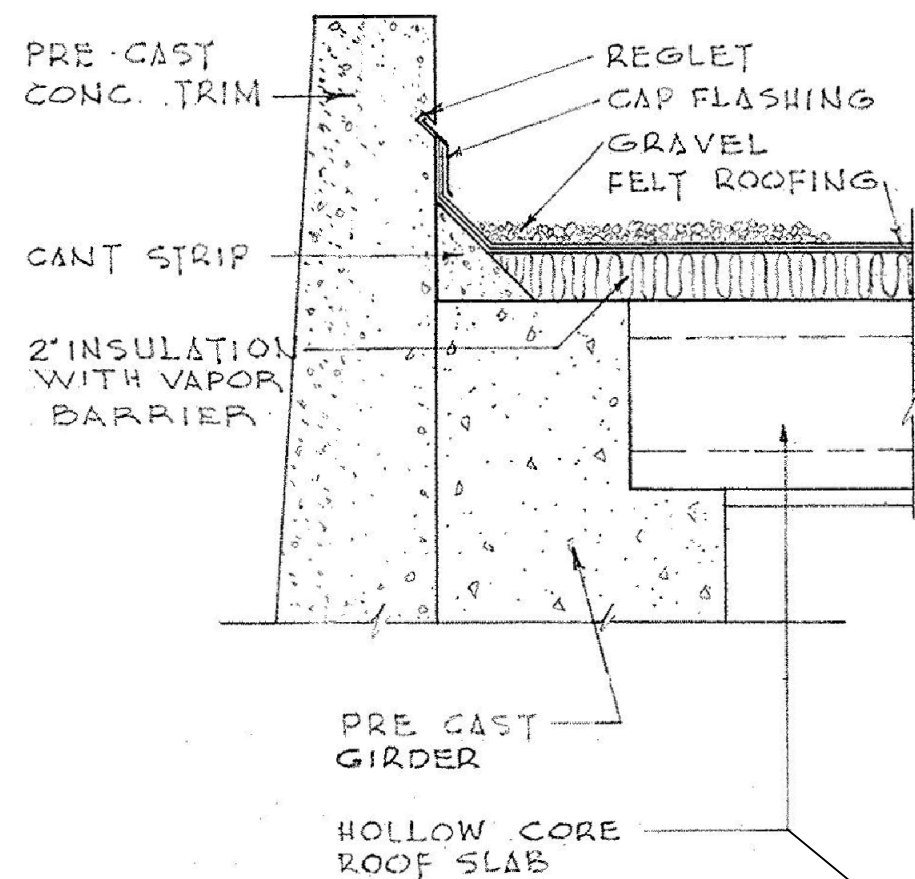
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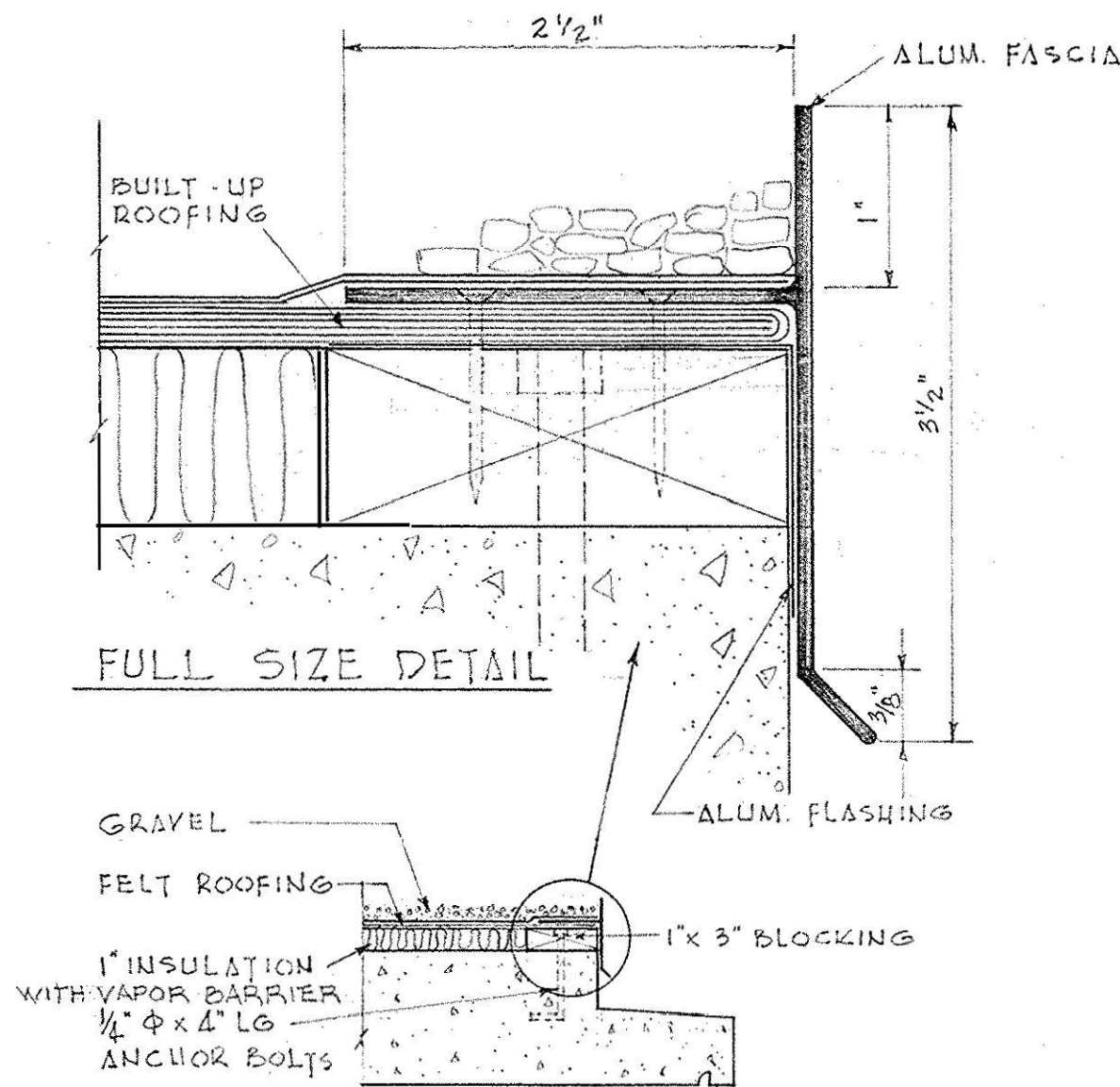
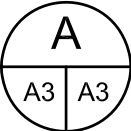
REPLACE UPH CORE ROOF & HVAC  
TRACEN  
CAPE MAY NEW JERSEY  
UPH, BUILDING #254  
ARCHITECTURAL  
ROOF PLAN

PROJECT ENG.		BRANCH CHIEF	
APPROVING OFFICER		8/2/19 DATE	
PROJECT NUMBER 11368923		DRAWING NUMBER T-7103-AD	
DISCIPLINE/SHT NO A/2		SHEET 2 OF 8	



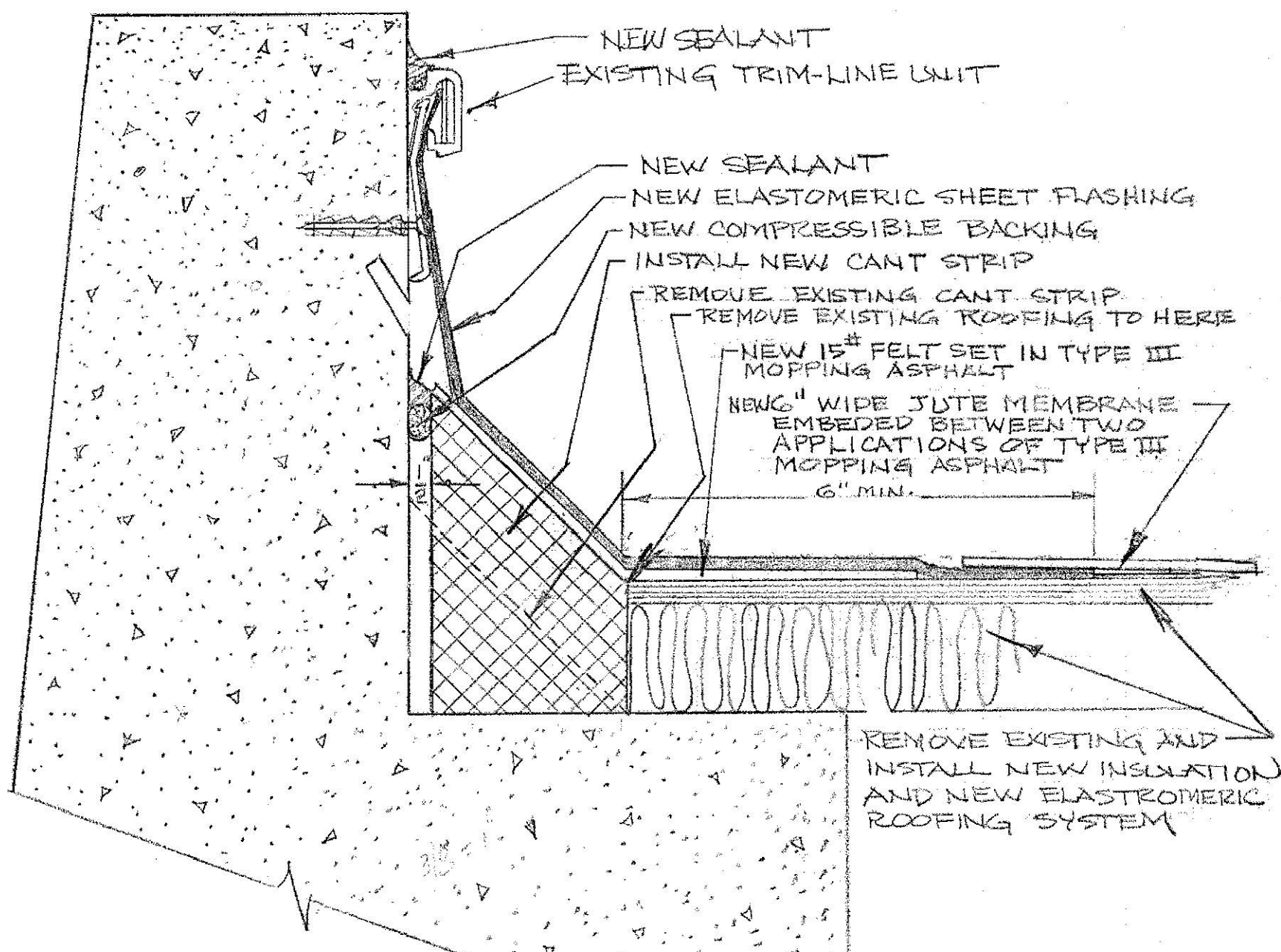
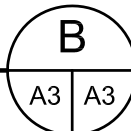
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CORE ROOF SECTION

SCALE: NONE



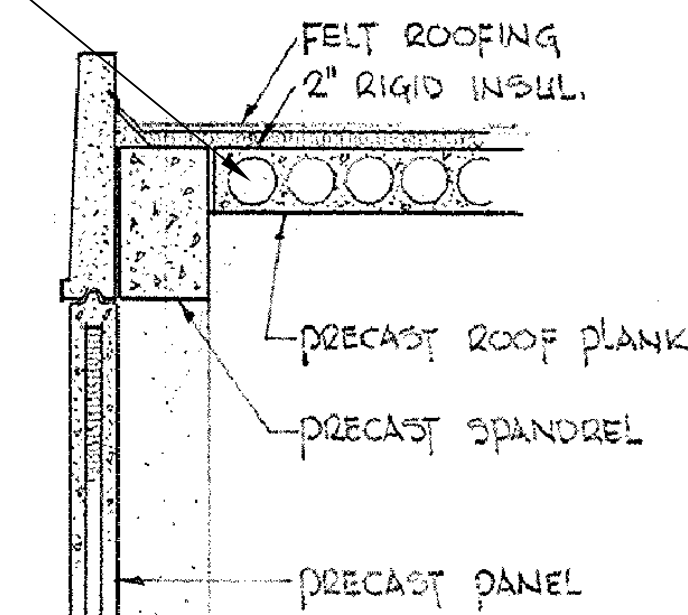
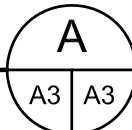
PASSAGEWAY  
SECTION

SCALE: NONE



REVISED UPH  
CORE ROOF SECTION

SCALE: NONE

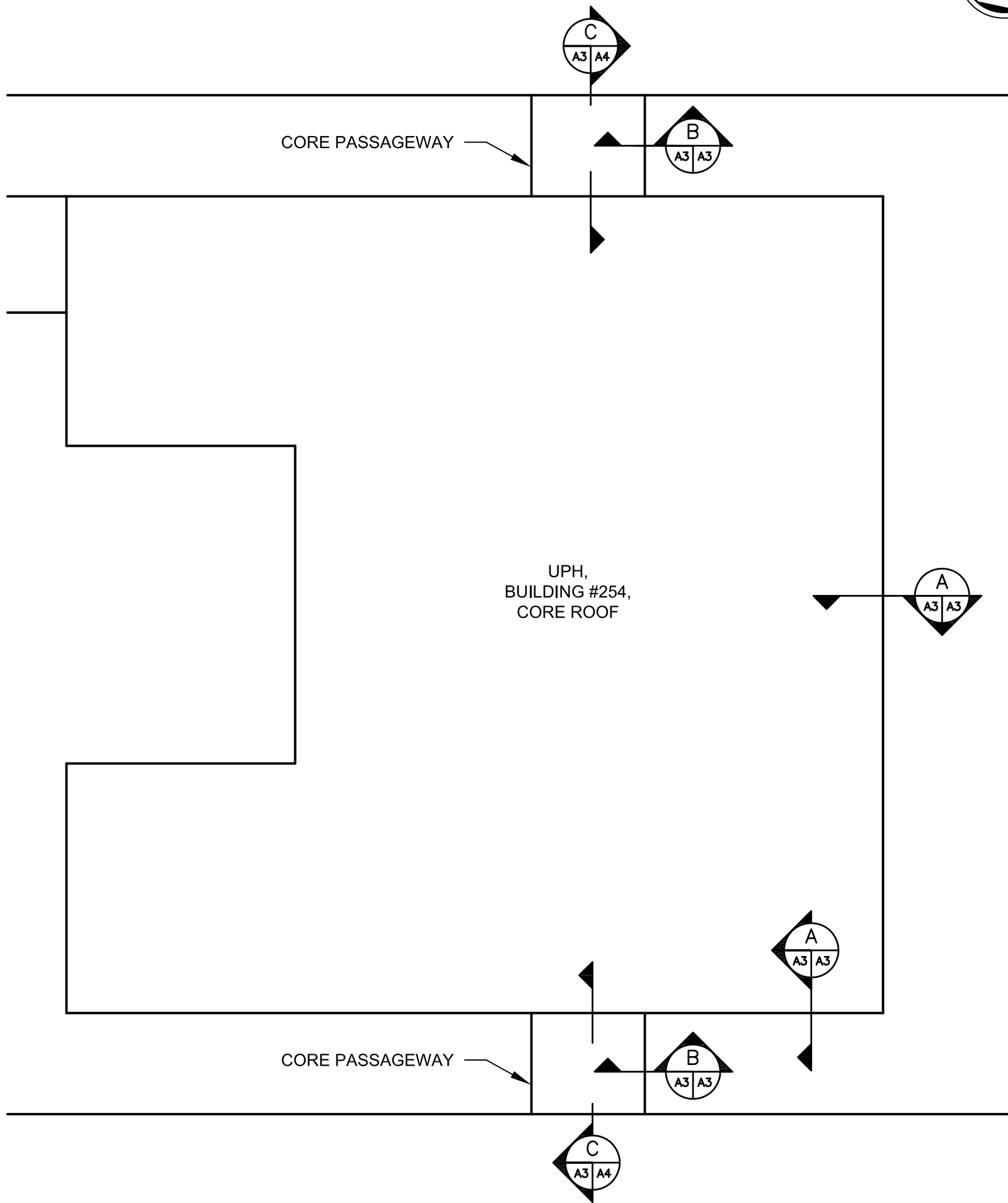


HOLLOW CORE ROOF

SCALE: NONE

GENERAL NOTES:

1. THE ROOF SECTIONS PROVIDED HERE ARE FOR INFORMATIONAL PURPOSES ONLY. THEY REPRESENT ORIGINAL CONSTRUCTIONS DETAILS AND SOME MINOR MODIFICATIONS. NONE OF THE SECTIONS SHOW THE EXISTING SPRAYED ON FOAM INSULATION THAT HAS BEEN APPLIED OVER THE BUILT-UP ROOFING. THESE SECTIONS DO NOT SHOW ALL THE DIFFERENT ROOF CONDITIONS. CONTRACTOR SHALL FIELD INVESTIGATE ALL EXISTING CONDITIONS.
2. WORK UNDER THIS CONTRACT WILL SUBSTANTIALLY CHANGE SECTIONS "A" AND "B". REFER TO DRAWING A4.

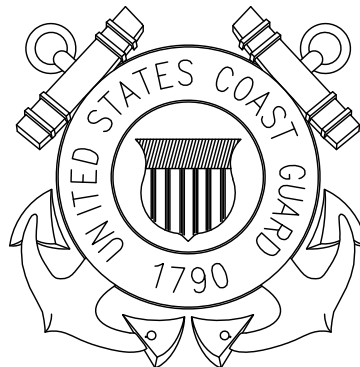


ROOF SECTION KEY

SCALE: NONE

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SHEET TITLE

REPLACE UPH CORE ROOF & HVAC  
TRACEN  
CAPE MAY NEW JERSEY  
UPH, BUILDING #254  
ARCHITECTURAL  
ORIGINAL ROOF SECTIONS

PROJECT ENG.

BRANCH CHIEF

APPROVING OFFICER

8/2/19

DATE

PROJECT NUMBER

11368923

DRAWING NUMBER

T-7104-AD

DISCIPLINE/SHT NO

A/3

SHEET 3 OF 8

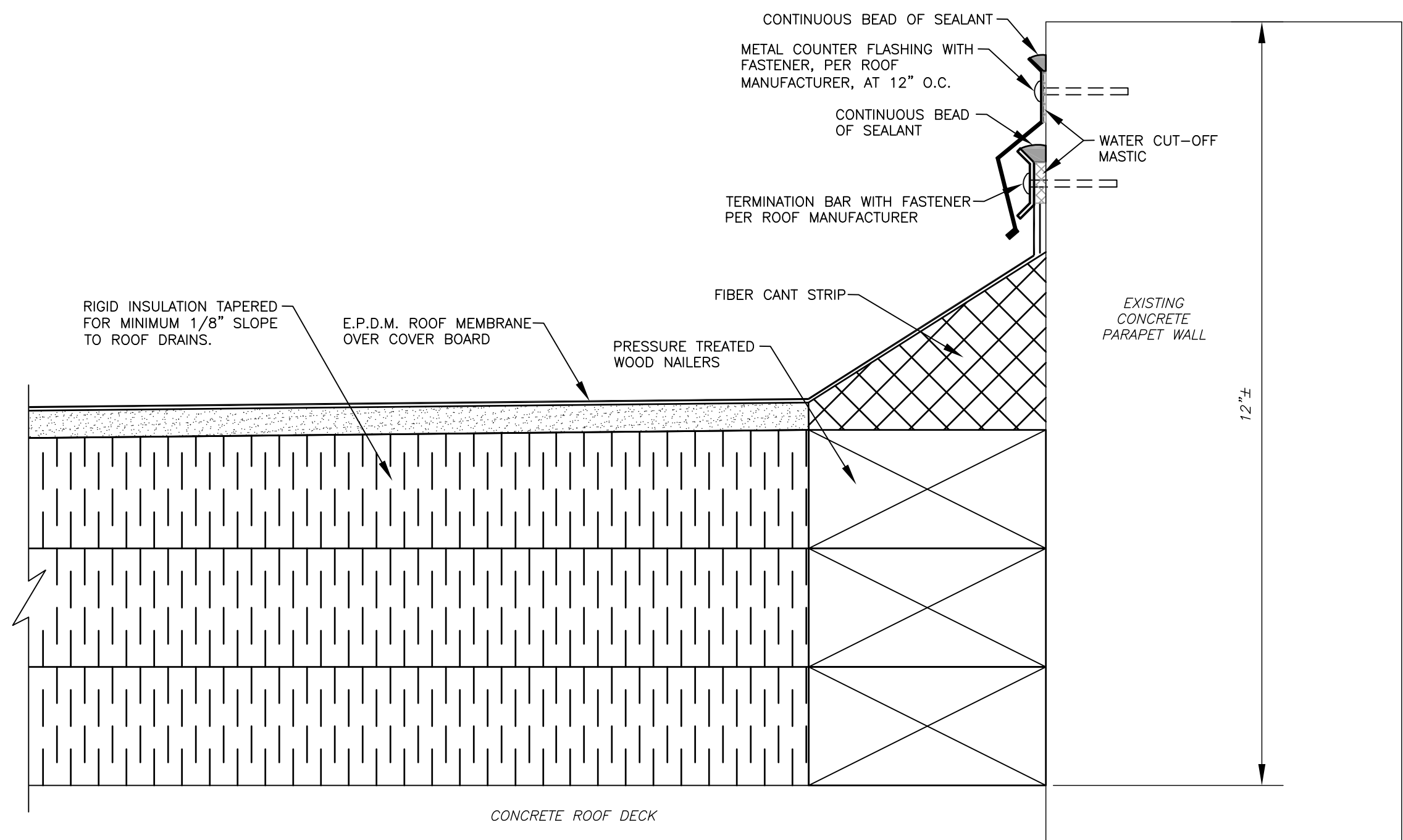
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2

3

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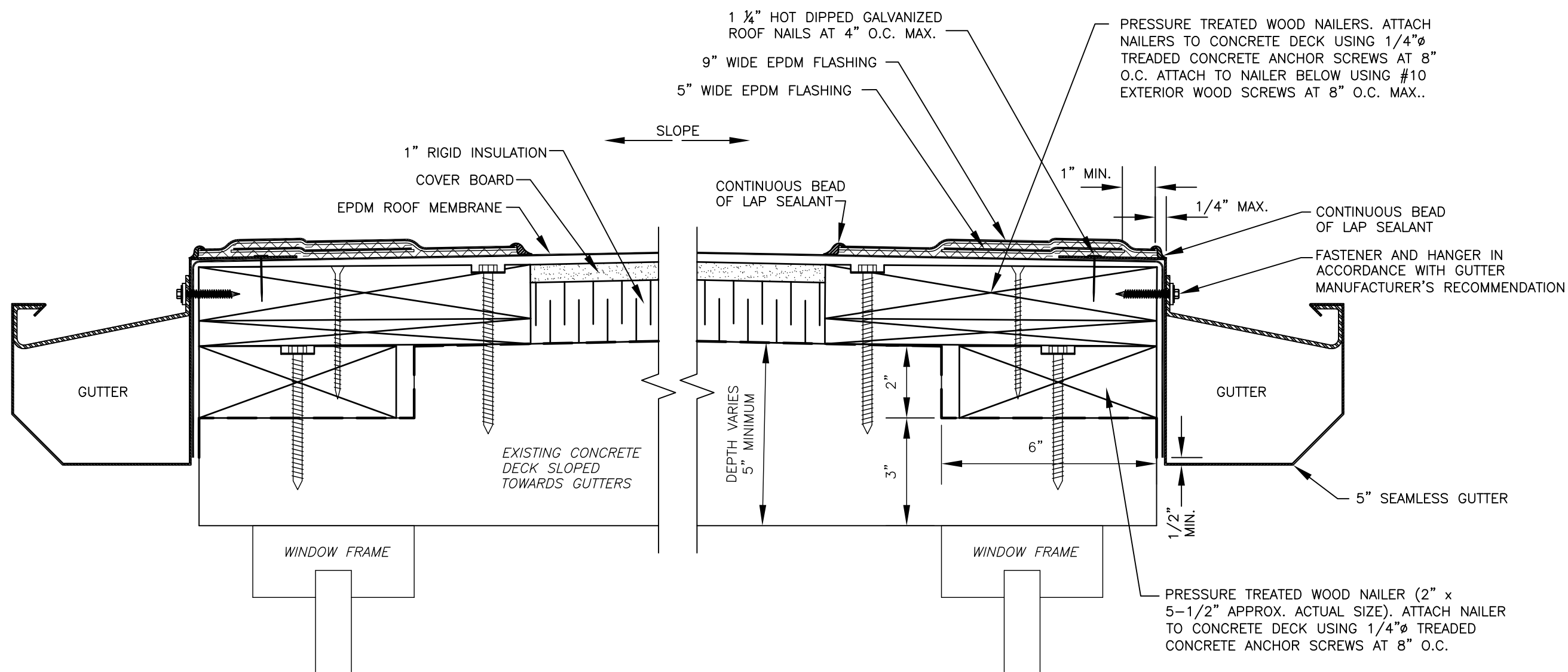
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**CORE ROOF AREA WITH  
TAPERED INSULATION**

SCALE: NONE

B



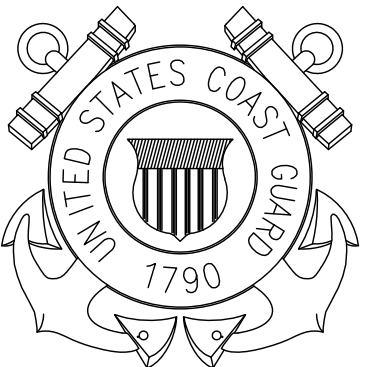
**CORE PASSAGEWAY  
EAST / WEST ROOF SECTION**

SCALE: NONE

C

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B

ISSUE

MARK	DATE	DESCRIPTION

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DESIGNED BY: SCM  
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SCALE: AS SHOWN PLOT SCALE:

SHEET TITLE

**REPLACE UPH CORE ROOF & HVAC  
TRACEN**  
CAPE MAY NEW JERSEY  
UPH, BUILDING #254  
ARCHITECTURAL  
NEW ROOF SECTIONS

PROJECT ENG. BRANCH CHIEF

APPROVING OFFICER 8/2/19  
DATE

PROJECT NUMBER DRAWING NUMBER  
11368923 T-7105-AD

DISCIPLINE/SHT NO SHEET 4 OF 8  
A/4

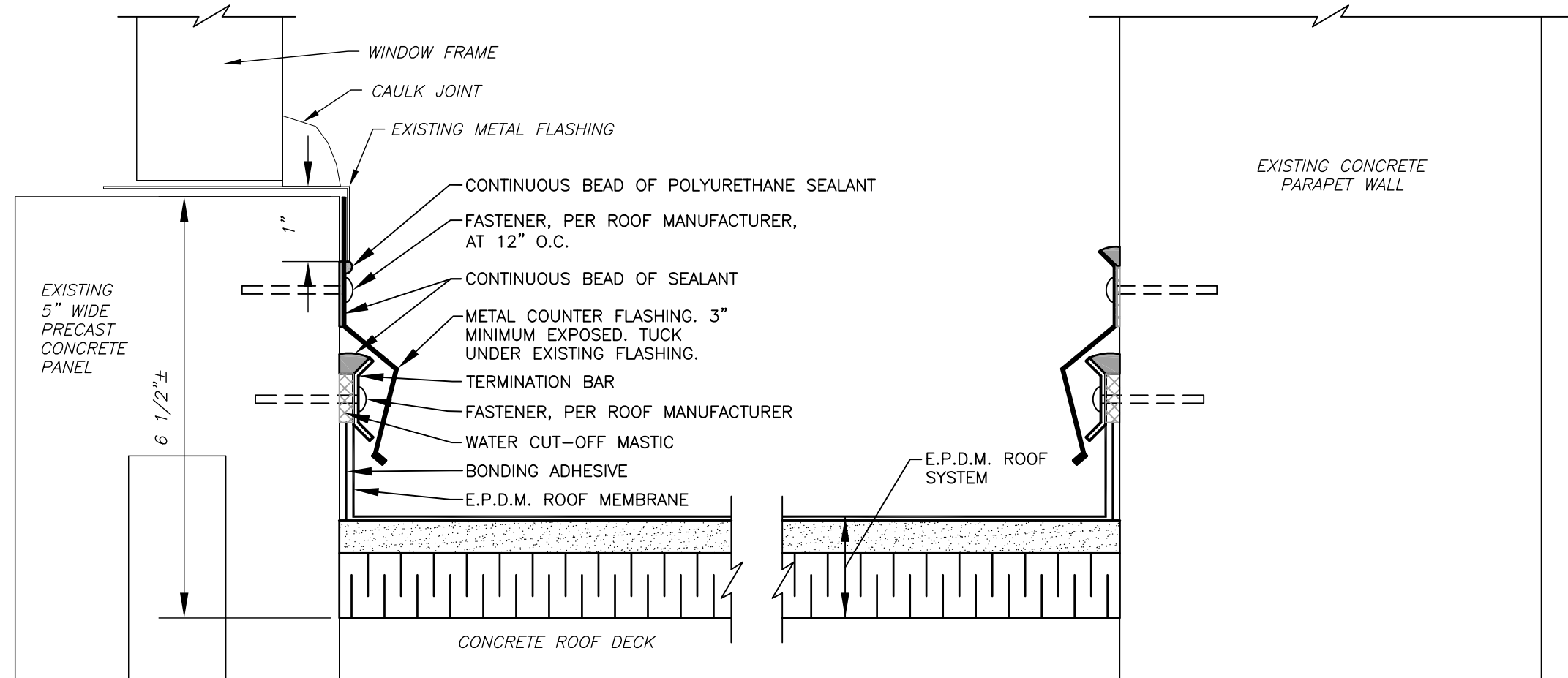
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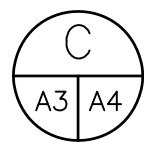
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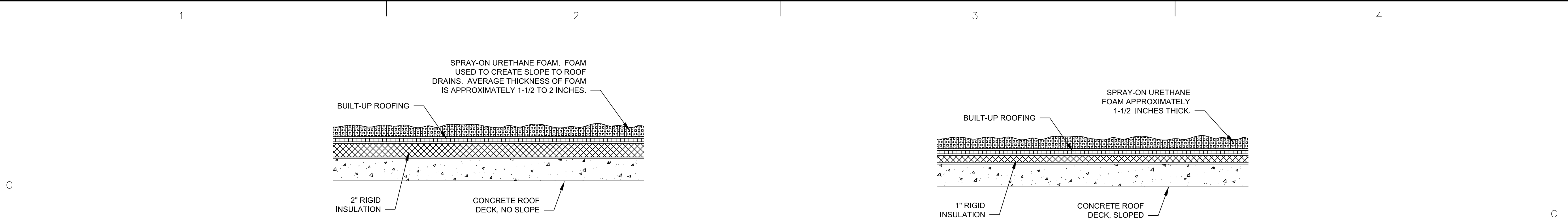
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NORTH / SOUTH ROOF SECTION**

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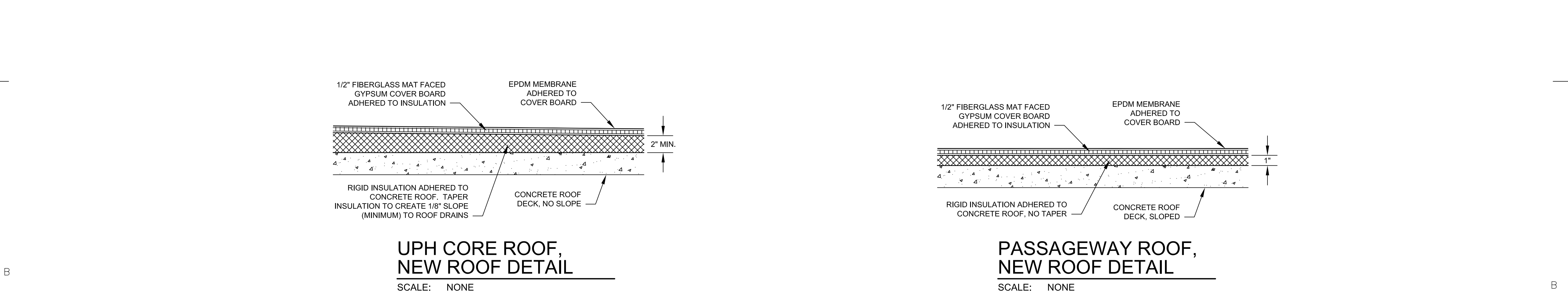


UPH CORE ROOF,  
EXISTING ROOF DETAIL

SCALE: NONE

PASSAGEWAY ROOF,  
EXISTING ROOF DETAIL

SCALE: NONE

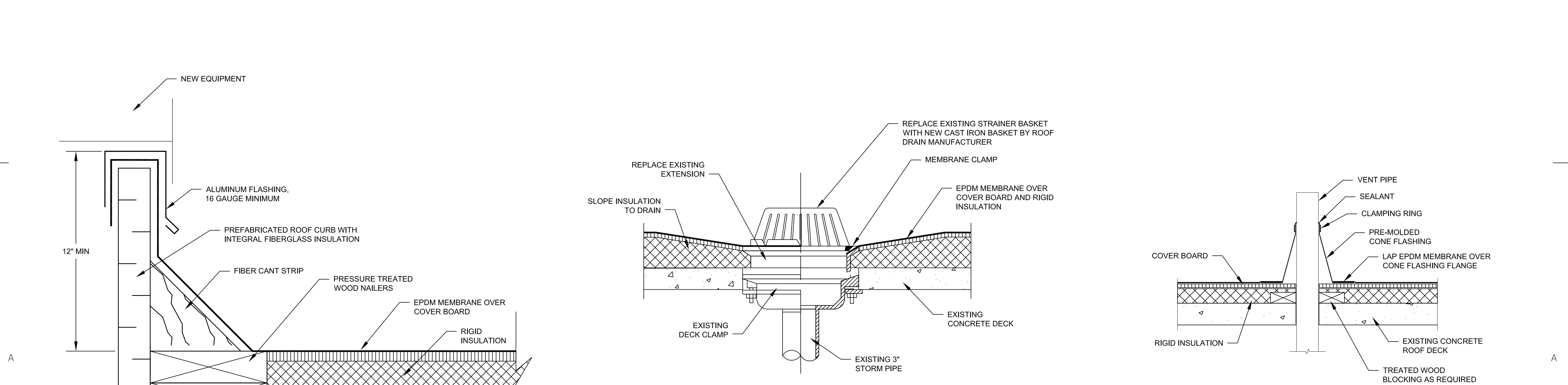


UPH CORE ROOF,  
NEW ROOF DETAIL

SCALE: NONE

PASSAGEWAY ROOF,  
NEW ROOF DETAIL

SCALE: NONE



CURB DETAIL

SCALE: NONE

ROOF DRAIN DETAIL

SCALE: NONE

VENT PIPE DETAIL

SCALE: NONE

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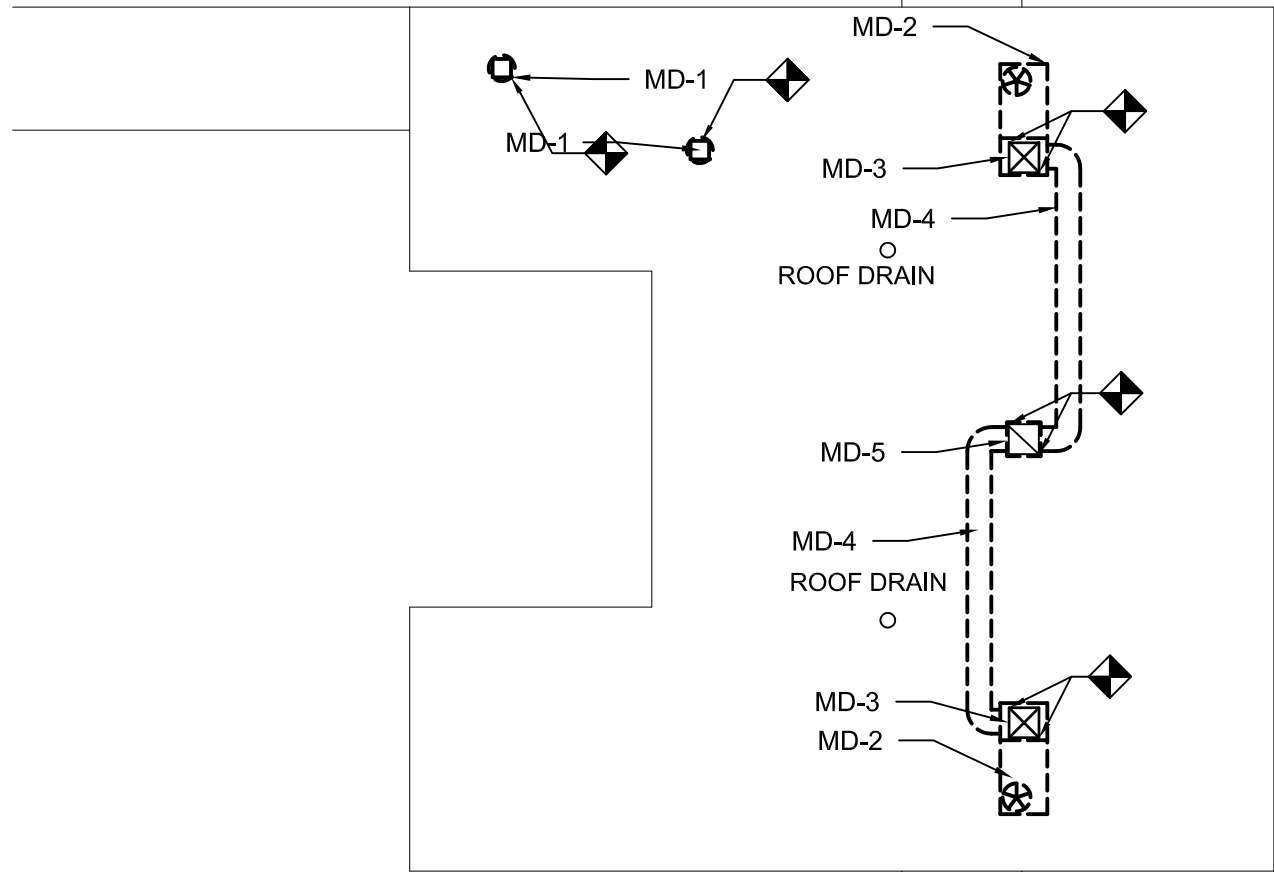
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SHEET TITLE

REPLACE UPH CORE ROOF & HVAC  
TRACEN  
CAPE MAY NEW JERSEY  
UPH, BUILDING #254  
ARCHITECTURAL  
ROOF DETAILS

PROJECT ENG.	BRANCH CHIEF
APPROVING OFFICER	8/2/19 DATE

PROJECT NUMBER	DRAWING NUMBER
11368923	T-7106-AD
DISCIPLINE/SHT NO	SHEET 5 OF 8
A/5	



## UPH ROOF DEMO PLAN

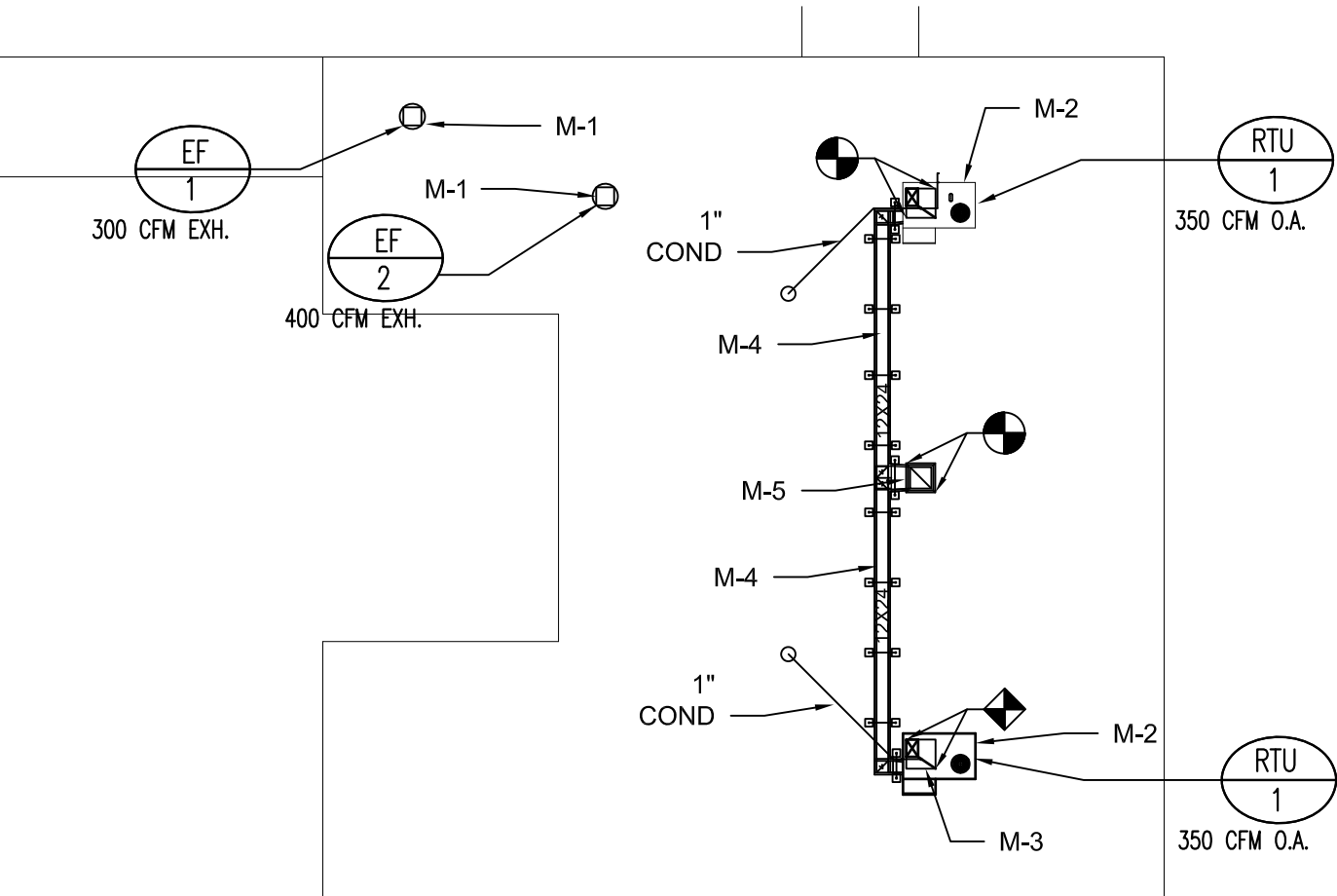
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### MECHANICAL DEMOLITION NOTES-MD-#:

1. DEMOLISH EXISTING FAN AND ASSOCIATED ORIGINAL CURB (AND ADAPTERS) AND PREPARE OPENING FOR NEW CURB/FAN INSTALLATION. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL WORK REQUIRED AND PROPOSED DRAWINGS AND SCHEDULES FOR NEW WORK REQUIRED.
2. DEMOLISH EXISTING ROOF TOP UNIT (RTU) WITH HORIZONTAL DISCHARGE AND RETURN (ROOF / CURB MOUNTED SUPPLY AND RETURN PLENUM BOX), AND PREPARE ROOF FOR NEW RTU INSTALLATION. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL WORK REQUIRED AND PROPOSED DRAWINGS AND SCHEDULES FOR NEW WORK REQUIRED.
3. DEMOLISH EXISTING SUPPLY/RETURN PLENUM BOX AND CONNECTING DUCT BETWEEN EXISTING SUPPLY BOX AND DUCT DROP

THROUGH 30 X 30 CORE OPENING THAT IS CONNECTED TO A 30X30 SUPPLY PLENUM BOX AND PREPARE PLENUM FOR NEW DUCT CONNECTION. FAN DOWN TO A SUPPLY BOX BELOW ROOF IN THE AMOUNT NEEDED FOR SAFE INSTALLATION OF NEW CURB AND NEW DUCT CONNECTION. SEE PROPOSED DRAWINGS AND SCHEDULES FOR NEW WORK REQUIRED.

4. DEMOLISH EXISTING 24 X 12 ROOF SUPPORTED RETURN DUCT THAT CONNECTS TO A DUCT FROM OTHER RTU TO A COMMON PLENUM BOX THAT DROPS THROUGH EXISTING CURB WITH A 30X30 CORE ROOF OPENING. SEE ROOF DRAWINGS AND PROPOSED DRAWINGS FOR MORE INFO.



## UPH ROOF NEW WORK PLAN

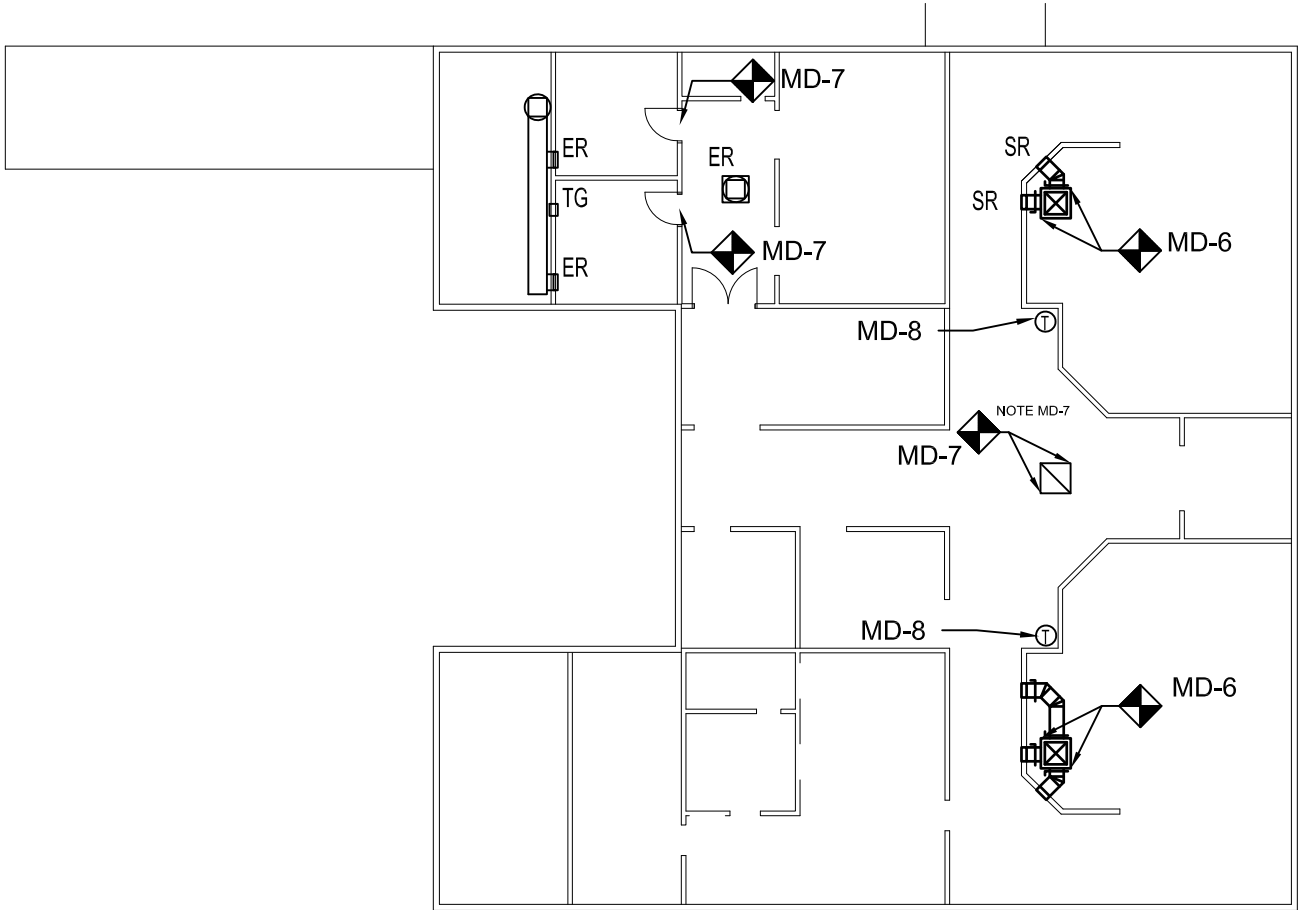
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### NEW WORK MECHANICAL NOTES-M-#:

1. PROVIDE NEW EXHAUST FAN AND NEW CUSTOM BUILT 12" HIGH ROOF CURB WITH INTERNAL BACKDRAFT DAMPER, WHICH BASE IS SIZED TO OVERLAP EXISTING ROOF OPENING AND CORE OPENING. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL WORK REQUIRED AND AND SCHEDULES FOR WORK REQUIRED.
2. PROVIDE NEW CONVERTIBLE ROOF TOP UNIT (RTU) WITH 24" HIGH INSULATED ROOF CURB THAT IS TO BE INSTALLED ATOP EXISTING 30X30 OPENING. UNIT IS TO HAVE A DOWNWARD SUPPLY DISCHARGE AND HORIZONTAL RETURN. PROVIDE A TRAP AND RUN 1" CONDENSATE DISCHARGE SLOPED TO ROOF DRAIN. INSULATE, PROTECT RETURN DUCTWORK TO THE UNIT. PROVIDE SUPPORT AS REQUIRED, SPECIFIED. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL WORK REQUIRED AND PROPOSED DRAWINGS AND SCHEDULES FOR NEW WORK REQUIRED.

3. PROVIDE A 20 X 13 1/2 TO 30 X 30 INSULATED TRANSITION FITTING AND CONNECT TO EXISTING SUPPLY DUCT BELOW ROOF. RE-INSULATE ALL DUCTWORK CONNECTIONS BELOW ROOF. PROVIDE DUCT BETWEEN RTU AND AN EXISTING DROP THROUGH 30 X 30 CORE ROOF CURB FAN DOWN TO A SUPPLY DUCT BELOW ROOF.
4. PROVIDE NEW 12 X 24 RETURN DUCT AND CONNECT TO CUSTOM BUILT 22"X 22" INSULATED CURB EXTENSION BOX WHICH IS TO BE SET ATOP NEW CUSTOM BUILT 12" HIGH INSULATED, LINED ROOF CURB SIZED TO OVERLAP EXISTING 30X30 ROOF OPENING.
5. PROVIDE NEW 30X30 DUCT DROP THROUGH EXISTING 30X30 MASONRY OPENING AND CONNECT TO EXISTING RETURN PLENUM.

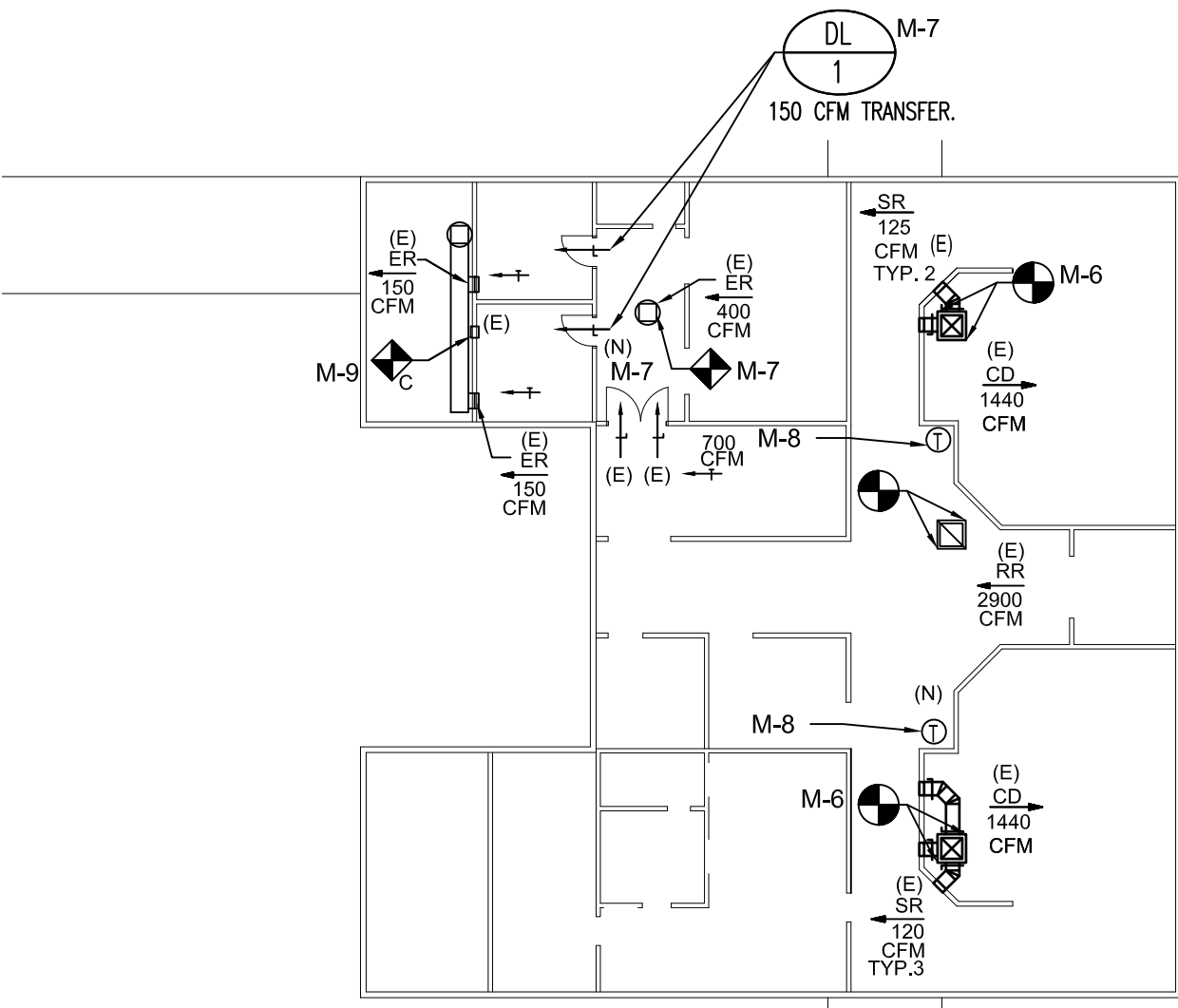
6. CONNECT NEW 30 X30 INSULATED SUPPLY DUCT TO EXISTING 32X32, 12" HIGH SUPPLY PLENUM BOX AND 32X32 SUPPLY DIFFUSER.
7. INSTALL NEW 16X16 DOOR LOUVER WITH FRAME INTO EXISTING BATHROOM DOOR.
8. INSTALL NEW RTU PROGRAMMABLE THERMOSTATIC SENSOR AND INTERLOCK WITH NEW EF-1 AND EF-2.L PASSAGEWAYS IS SLOPED AS SHOWN. THERE IS NO NEED TO CREATE ADDITIONAL PITCH USING TAPERED INSULATION. RIGID INSULATION ON THE STAIRWELLS AND PASSAGEWAYS SHALL BE ONE (1) INCH THICK.
9. CAP (CLOSE) EXISTING TRANSFER GRILLE FROM MECHANICAL ROOM.



## UPH DEMO PLAN

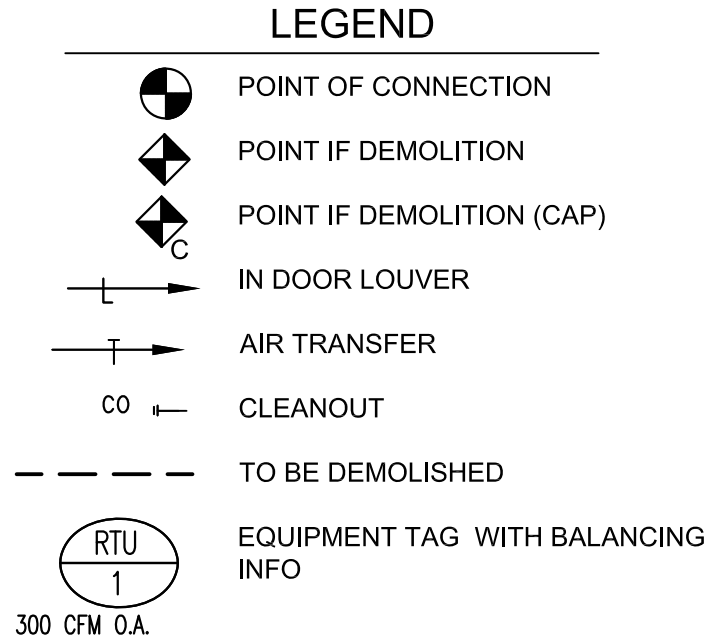
SCALE: 1/16"=1'-0"

8. DEMOLISH AN EXISTING RTU THERMOSTAT AND EXISTING THERMOSTAT BATHROOM DOOR PROVIDE A NEW FULLY ADHERED, ETHYLENE PROPYLENE DIENE MONOMER (EPDM) ROOF SYSTEM INCLUDING EPDM MEMBRANE, COVER BOARD, RIGID INSULATION, CANT STRIPS, CRICKETS, WOOD NAILERS, ETC. REFER TO DETAILS.

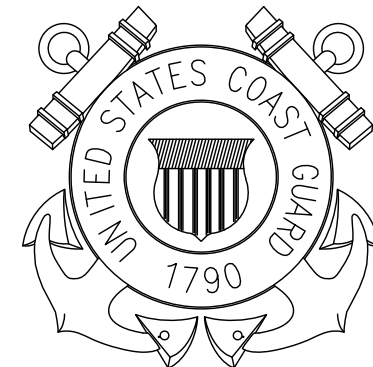


## UPH NEW WORK PLAN

SCALE: 1/16"=1'-0"



## U. S. COAST GUARD TRAINING CENTER CAPE MAY



USCG, TRACEN CAPE MAY  
1 MUNRO AVE.  
CAPE MAY, NJ 08204-5092

ISSUE		
MARK	DATE	DESCRIPTION
A/E PROJECT NO: CMS-1573		
CAD FILE NAME:		
DESIGNED BY:		
DRAWN BY:		
EDITED BY:		
CHECKED BY:		
SCALE: AS SHOWN PLOT SCALE:		
SHEET TITLE		
REPLACE UPH CORE ROOF & HVAC TRACEN CAPE MAY NEW JERSEY BUILDING #254 MECHANICAL ROOF AND FLOOR PLANS		
PROJECT ENG.		BRANCH CHIEF
APPROVING OFFICER		8/2/19 DATE
PROJECT NUMBER		DRAWING NUMBER
11368923		T-7107-MD
DISCIPLINE/SHT NO		
M/1		SHEET 6 OF 8

## 1

2

3


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NOTES:



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ISSUE

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SCALE:

PLOT SCALE:

## PROJECT ENG.

BRANCH CHIEF

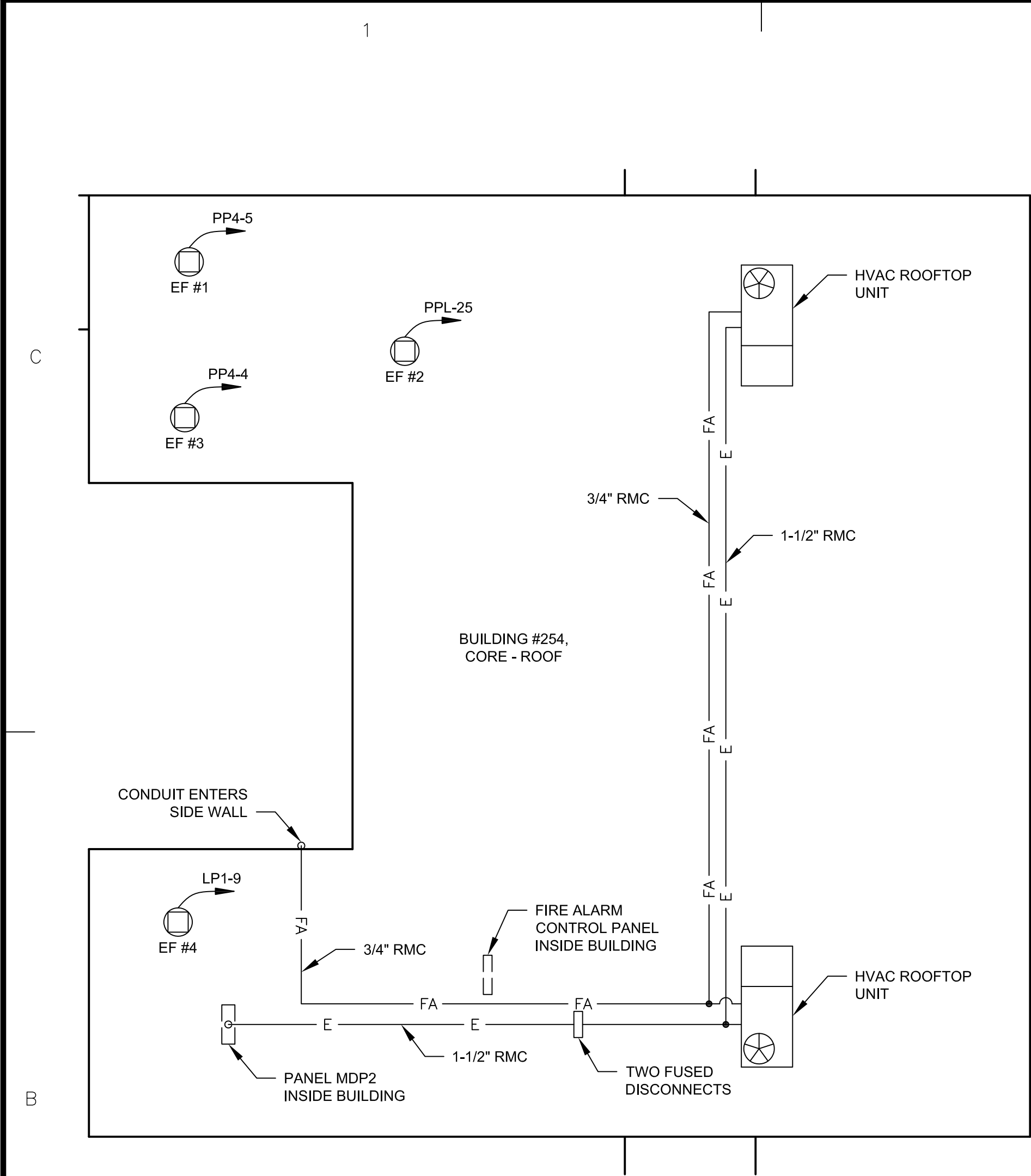
3/2/19  
DATE

DRAWING NUMBER

-7108-MD

7 OF 8





ELECTRICAL  
DEMOLITION PLAN

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

DEMOLITION NOTES:

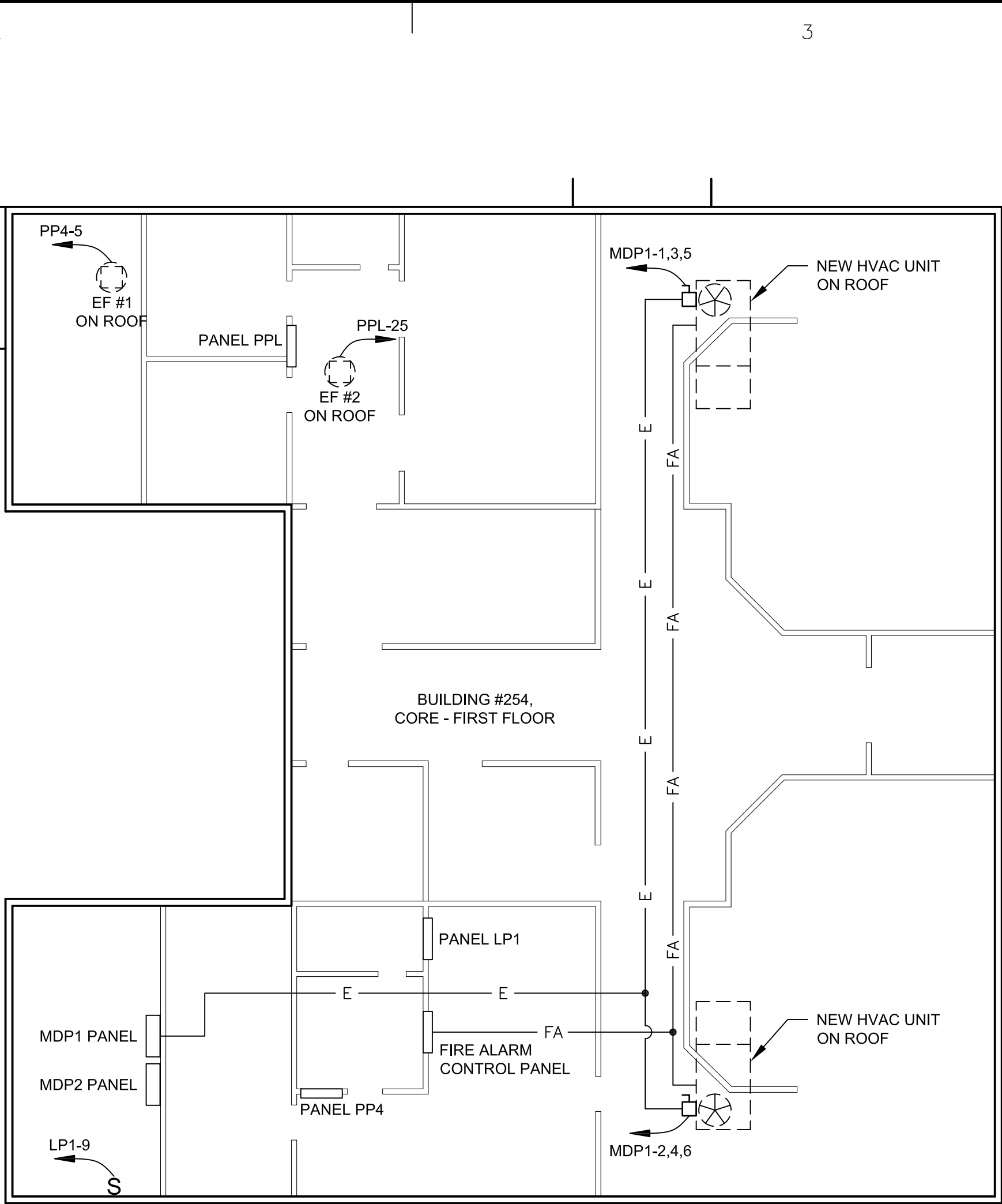
- DEMOLISH TWO EXISTING ROOF MOUNTED, FUSED DISCONNECTS AND STRUT BASED SUPPORTS.
- DEMOLISH ELECTRICAL RIGID METAL CONDUIT (RMC) AND WIRE BACK TO PANEL MDP-2. PATCH HOLE IN ROOF AND PROVIDE CAP FOR HOLE IN PANEL.
- DEMOLISH FIRE ALARM RIGID METAL CONDUIT AND CONTROL WIRING BACK TO FIRE ALARM CONTROL PANEL. PATCH HOLE IN SIDE WALL TO MATCH EXISTING.
- FOR EXHAUST FAN #3, DEMOLISH MC CABLE & WIRE BACK TO PANEL. ABANDONED EMT CONDUIT MAY REMAIN. DEMOLISH FAN SWITCH AND THERMOSTAT. PROVIDE BLANK COVER PLATE ON SWITCH BOX.
- FOR EXHAUST FAN #4, DEMOLISH MC CABLE & WIRE BACK TO EXISTING LIGHT SWITCH. ABANDONED EMT CONDUIT MAY REMAIN. DEMOLISH FAN SWITCH AND THERMOSTAT. PROVIDE NEW COVER PLATE FOR LIGHT SWITCH.

POWER OUTAGE NOTE:

COORDINATE BUILDING POWER OUTAGE WITH THE CONTRACTING OFFICER'S REPRESENTATIVE (COR). POWER OUTAGE SHALL BE LIMITED TO TWO (2) HOURS AND MAY BE CONDUCTED DURING NORMAL WORKING HOURS.

GENERAL NOTES:

- REFER TO MECHANICAL DRAWINGS FOR ALL CONTROL WIRING.
- CIRCUIT BREAKER AND WIRE SIZES GIVEN ON THE ELECTRICAL DRAWINGS ARE COORDINATED WITH THE BASIS OF DESIGN HVAC EQUIPMENT. IF THE ACTUAL INSTALLED HVAC EQUIPMENT DIFFERS FROM THE BASIS OF DESIGN EQUIPMENT, THE CONTRACTOR SHALL INSTALL THE CORRECT SIZE CIRCUIT BREAKERS AND WIRE AS NECESSARY TO MEET THE LATEST NEC REQUIREMENTS AT NO ADDITIONAL COST TO THE GOVERNMENT. COORDINATE FINAL POWER REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- THE BASIS OF DESIGN HVAC EQUIPMENT INCLUDES MANUFACTURER PROVIDED DISCONNECT SWITCHES, THERMAL OVERLOADS, AND CONVENIENCE OUTLETS AS PART OF A PACKAGED UNIT. THEREFORE, THIS EQUIPMENT IS NOT SPECIFICALLY CALLED OUT ON THESE DRAWINGS. IF THE ACTUAL INSTALLED HVAC EQUIPMENT DOES NOT INCLUDE THESE FEATURES, THE CONTRACTOR SHALL PROVIDE THEM AT NO ADDITIONAL COST TO THE GOVERNMENT.
- POWER TO THE BUILDING IS 3 PHASE, 4 WIRE, 208/120V.
- PROVIDE SHORT SECTIONS OF LIQUIDTIGHT FLEXIBLE METAL CONDUIT FOR FINAL CONNECTIONS TO ALL MOTOR LOADS.

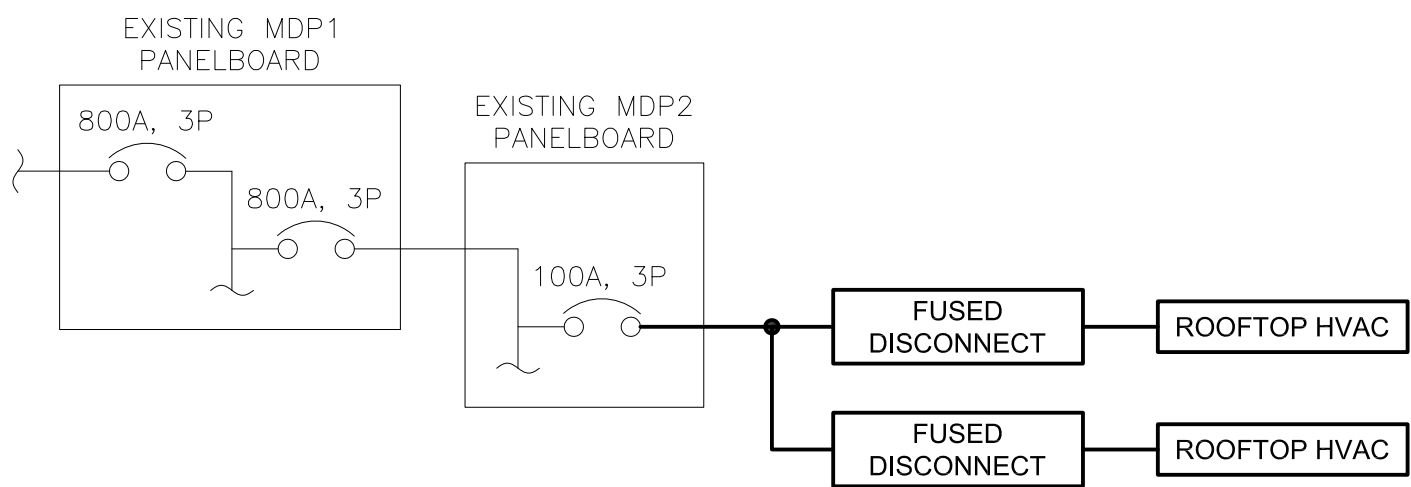


ELECTRICAL  
NEW WORK PLAN

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

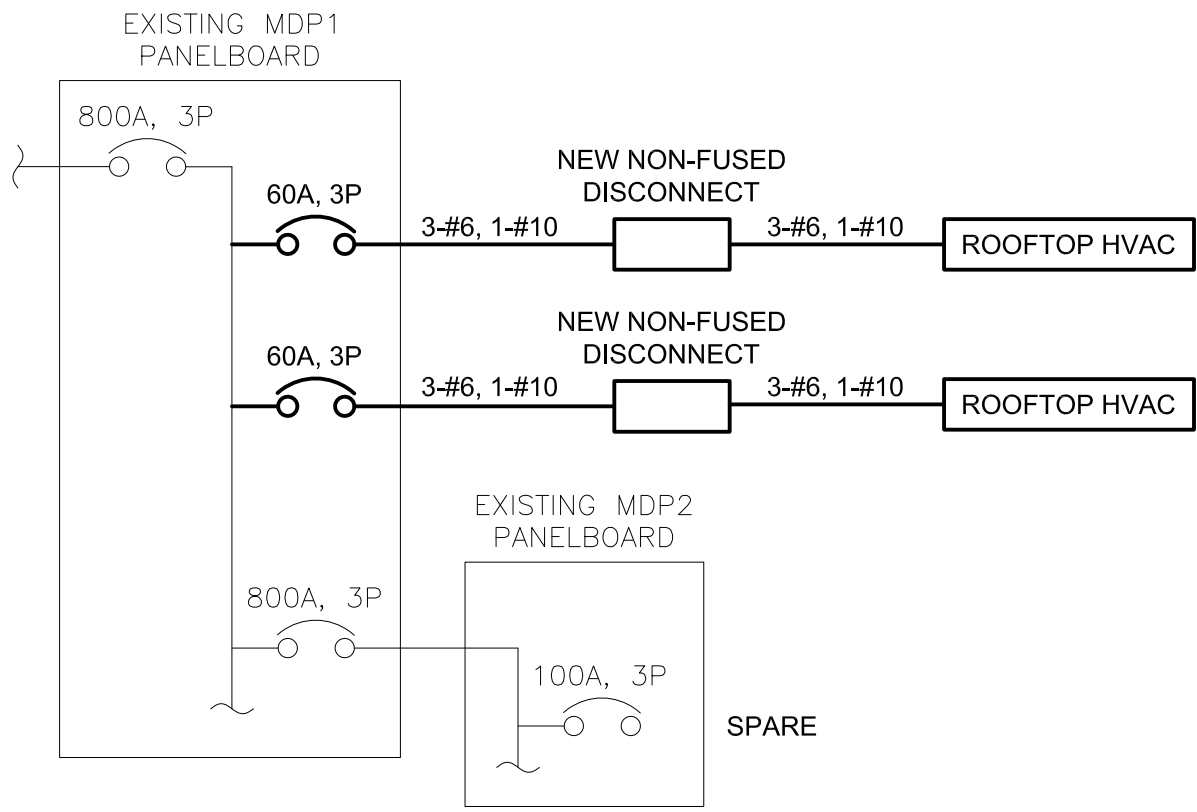
NEW WORK NOTES:

- THE EXISTING CUTLER-HAMMER POW-R-LINE C, TYPE PRL4, "MDP1" PANELBOARD HAS SPACE FOR ADDITIONAL CIRCUIT BREAKERS, BUT IT DOES NOT HAVE THE BUS CONNECTIONS IN PLACE. PROVIDE TWO NEW 240V, 60A, 22 KAIC, 3-POLE, CIRCUIT BREAKERS AND BUS CONNECTOR KITS. REPLACE EXISTING BLANK BUS COVER WITH WITH ONE FOR TWO CIRCUIT BREAKERS.
- NON-FUSED DISCONNECTS ARE SPECIFIED TO BE PROVIDED WITH THE ROOFTOP HVAC UNITS DIRECTLY FROM THE MANUFACTURER. IF NOT PROVIDED, ELECTRICAL CONTRACTOR SHALL PROVIDE NEMA 4X, NON-METALIC, 60A, 3-POLE, NON-FUSED DISCONNECTS MOUNTED ON HVAC UNITS.
- PROVIDE NEW EMT CONDUIT AND POWER WIRE FROM NEW CIRCUIT BREAKERS TO ROOFTOP HVAC UNITS. PROVIDE NEW EMT CONDUIT AND CONTROL WIRE FROM FIRE ALARM CONTROL PANEL RELAY TO ROOFTOP HVAC UNITS. RUN NEW CONDUIT INSIDE BUILDING ABOVE SUSPENDED ACOUSTICAL TILE CEILING. THERE IS A 6 INCH HORIZONTAL GAP BETWEEN ALL WALLS AND THE EDGE OF THE EXISTING SUSPENDED CEILING. PAINT ALL EXPOSED CONDUIT AND HANGERS BLACK. ROUTE NEW CONDUIT THROUGH VOIDS IN NEW ROOF CURBS. IF THIS IS NOT POSSIBLE, CORE BORE STRUCTURAL ROOF FOR POWER AND CONTROL WIRING.
- CONNECT CONTROL WIRING SUCH THAT FIRE ALARM CONTROL PANEL SHUTS DOWN BOTH ROOFTOP HVAC UNITS UPON ACTIVATION OF ONE RELAY. ROOFTOP HVAC UNITS SHALL AUTOMATICALLY RE-ENERGIZE UPON DEACTIVATION OF RELAY.
- FOR EXHAUST FANS #1 & #2, CONNECT NEW EXHAUST FANS TO EXISTING CIRCUITS. IF NECESSARY, EXTEND EXISTING CIRCUIT FROM JUNCTION BOX INSIDE BUILDING USING LIQUIDTIGHT FLEXIBLE METAL CONDUIT AND THHN/THWN WIRE.



EXISTING ONE-LINE

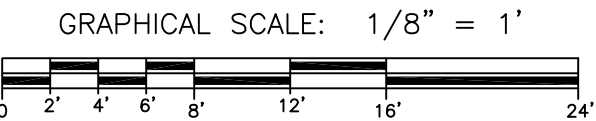
SCALE: NONE



NEW ONE-LINE

SCALE: NONE

LEGEND	
MDP1-1,3,5	HOMERUN, PANEL AND CIRCUIT # INDICATED
□	DISCONNECT SWITCH, NON-FUSED
○ EF#2	EXHAUST FAN, # INDICATED
S	TOGGLE SWITCH
— E —	ELECTRIC LINE
— FA —	FIRE ALARM LINE



CONSULTANTS

U. S. COAST GUARD  
TRAINING CENTER  
CAPE MAY



USCG, TRACEN CAPE MAY  
1 MUNRO AVE.  
CAPE MAY, NJ 08204-5092

ISSUE		
MARK	DATE	DESCRIPTION

A/E PROJECT NO:	CMS-1573
CAD FILE NAME:	
DESIGNED BY:	SCM
DRAWN BY:	SCM
EDITED BY:	
CHECKED BY:	

SCALE:	AS SHOWN	PLOT SCALE:
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SHEET TITLE	
REPLACE UPH CORE ROOF & HVAC TRACEN CAPE MAY NEW JERSEY UPH, BUILDING #254 ELECTRICAL DEMO & NEW WORK PLANS	

PROJECT ENG.		BRANCH CHIEF	
APPROVING OFFICER		8/2/19 DATE	
PROJECT NUMBER 11368923		DRAWING NUMBER T-7109-ED	
DISCIPLINE/SHT NO E/1		SHEET 8 OF 8	