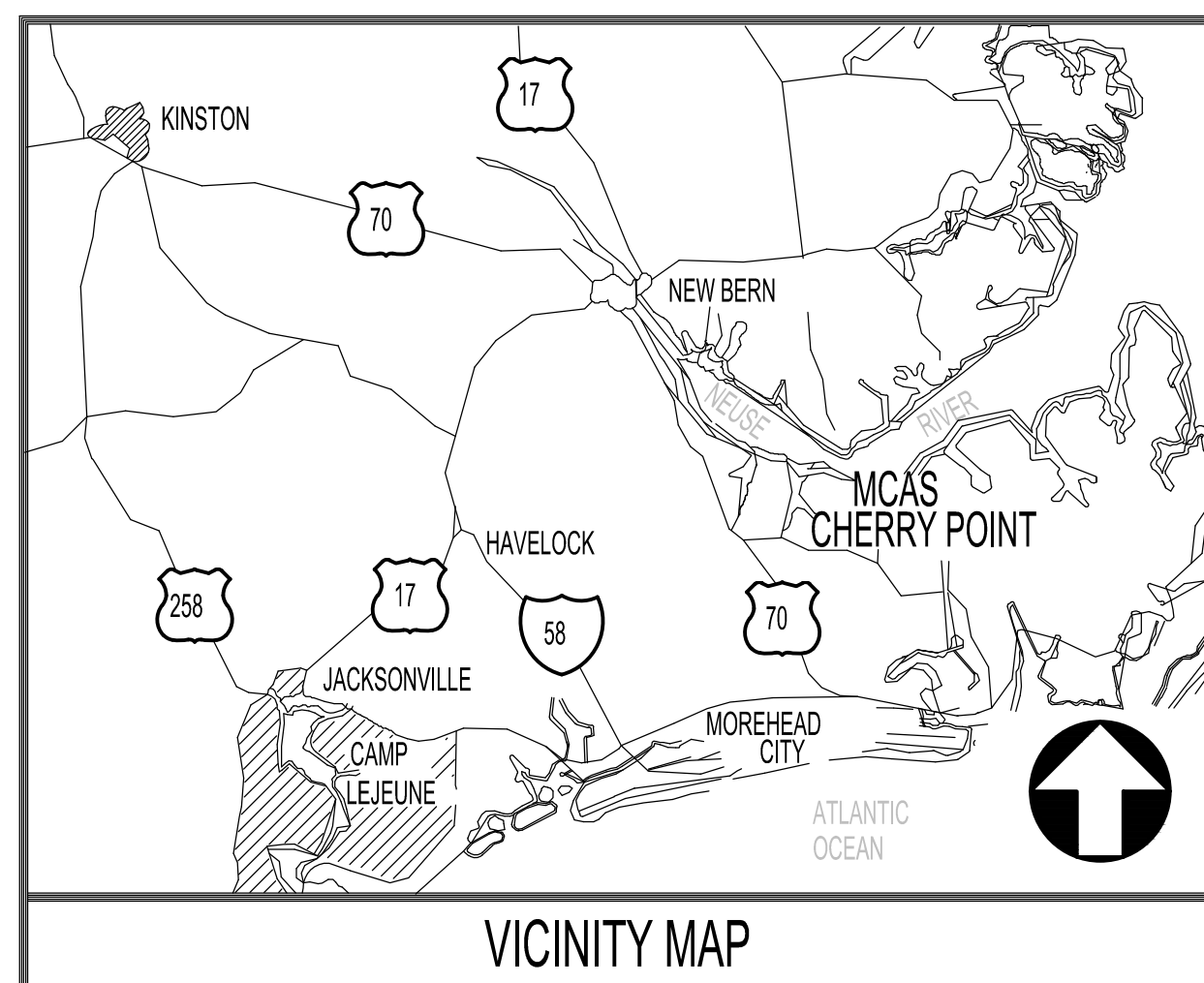
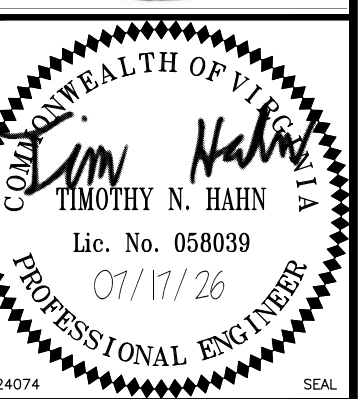




**REPAIR AND UPGRADE,
BUILDING 4034, FRC-E
MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA**

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A/E INFO

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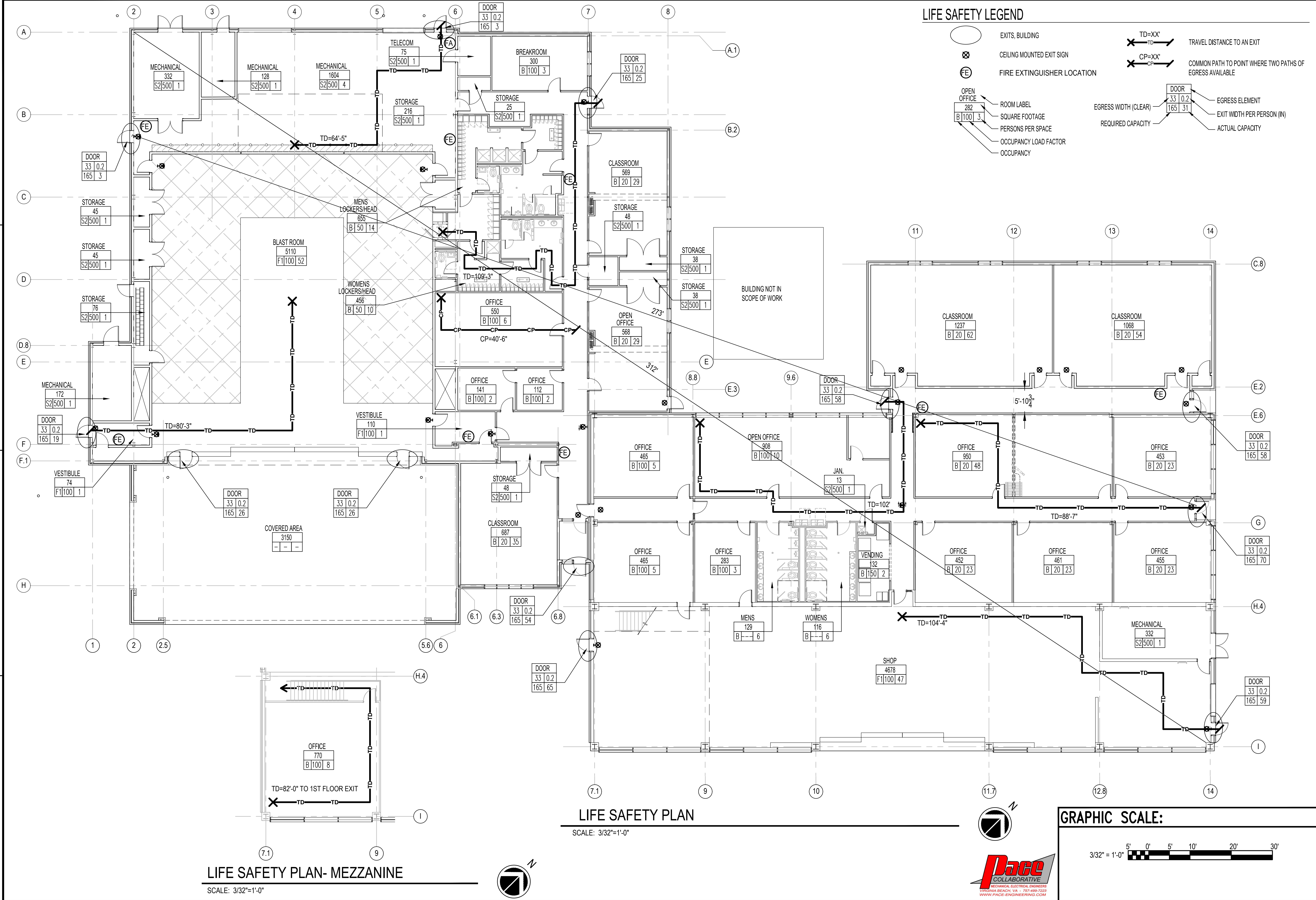
U.S. MARINE CORPS AIR STATION

CHERRY POINT, NORTH CAROLINA

REPAIR AND UPGRADE
BUILDING 4034, FRC-E

TITLE SHEET

SCALE: AS NOTED		
PROJECT NO.:		HK11237
MAXIMO WORK ORDER NO. 7375939		
WVFC DRAWING NO. 12816212		
SHEET	1	OF 113
G-001		



APPROVED	DATE	APP'R
FOR COMMANDER NAVFAC		
ACTIVITY		
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BES: MHF	DRW: CAR	CHK: MHF
U.S. MARINE CORPS AIR STATION CHERRY POINT, NORTH CAROLINA REPAIR AND UPGRADE BUILDING 4034, FRC-E LIFE SAFETY PLAN		
SCALE: AS NOTED PROJECT NO.: XK11237 MAXIMO WORK ORDER NO. 7375939 NAVFAC DRAWING NO. 12816214 SHEET 3 OF 113 GI101		

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PHASING KEYNOTES AND LEGEND

- PHASE 1 — DEMOLITION AND NEW CONSTRUCTION OF SPACES AS INDICATED.
- PHASE 2 — DEMOLITION AND NEW CONSTRUCTION OF SPACES AS INDICATED.
- PHASE 3 — DEMOLITION AND NEW CONSTRUCTION OF SPACES AS INDICATED.
- PHASE 4 — DEMOLITION AND NEW CONSTRUCTION OF SPACES AS INDICATED.

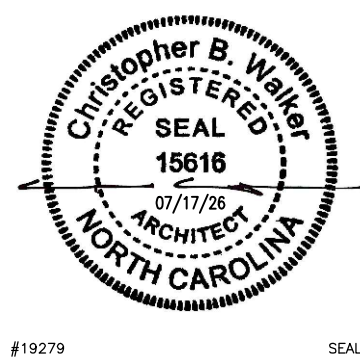
NOTE: THE BUILDING SHALL REMAIN OPERATIONAL DURING ALL PHASES OF CONSTRUCTION. RELOCATION OF STAFF SHALL BE COORDINATED WITH THE GOV'T.

ALL LIFE SAFETY SYSTEMS MUST REMAIN OPERATIONAL FOR OCCUPIED AREAS FOR THE DURATION OF CONSTRUCTION—INCLUDING FIRE ALARM, EMERGENCY LIGHTING, AND EGRESS PATHS TO EXITS/PUBLIC WAYS.

ELECTRICAL SERVICE DISRUPTION SHALL BE COORDINATED WITH THE GOV'T AND ONLY OCCUR WHEN THE BUILDING IS NOT OCCUPIED.

THE EXISTING TELECOM/SERVER ROOM WILL REMAIN OPERATIONAL UNTIL THE END OF PHASE 4. AT THE END OF PHASE 4 AFTER ALL COMPONENTS AND RUNS HAVE BEEN INSTALLED THE EXISTING SERVER ROOM SHALL BE RENOVATED.

SEE SHEET PH102 FOR FURNITURE INVENTORY AND STORAGE REQUIREMENTS.



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ACTIVITY

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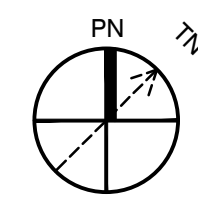
U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE
BUILDING 4034, FRC-E
PHASING PLAN

SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO. 7375939
NAVFAC DRAWING NO. 12816215
SHEET 04 OF 114
PH101

DRAWN/REVISED: 10 MAY 2014

PHASING PLAN

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



3/32" = 1'-0" 0 5' 10' 20'



NOTE: RUBBER SHOP SPACE WILL BE OCCUPIED DURING CONSTRUCTION. PROVIDE TEMPORARY HVAC DURING RE-ROOF OF ADJACENT ROOF WHEN HVAC SERVING RUBBER SHOP NEEDS TO BE REMOVED. REFER TO MECHANICAL DRAWINGS FOR DIRECTION.

AREA NOT IN SCOPE OF WORK

PHASE 3

PHASE 4

PHASE 1

PHASE 2

PHASE 4

NOTE: SEE AD101 AND AD102 FOR ROOM LOCATIONS

OPEN OFFICE 133

1. (13) VERIDESKS (3' X 30")
2. (17) CHAIRS
3. WOOD DESK (30" X 60")
4. 30" TV
5. CEILING MOUNT PROJECTOR
6. PROJECTOR SCREEN
7. 55" FLATSCREEN TV
8. LARGE FILE CABINET (70" X 2' X 4')
9. (2) WOOD PODIUMS)

1. (7) CUBICLES (APPROX. 7' X 7' X 5')
2. STORAGE CABINET (3' X 5' X 18")
3. STORAGE CABINET (31" X 31" X 21")
4. COPIER (29" X 29" X 48")
5. WOOD BOOKSHELF (3' X 1' X 6')
6. (10) CHAIRS
7. (1) SMALL DEHUMIDIFIER

BREAKROOM 144:

1. (6) CUBICLES (APPROX. 7' X 7' X 5')
2. WOOD BOOKSHELF (3' X 1' X 6')
3. COPIER (29" X 29" X 48")
4. RECEPTION DESK (6' X 6' X 44")
5. WOOD STORAGE CABINET (30" X 13" X 49")
6. SMALL DEHUMIDIFIER
7. (3) SMALL FANS
8. CEILING MOUNTED PROJECTOR
9. (6) CHAIRS
10. SMALL TABLE (24" X 36" X 38")

1. (2) FOLDING PLASTIC TABLES (8' X 30")
2. WOOD STAND FOR MINI FRIDGE (28" x 18" x 29")
3. SMALL DESK (47" x 18")
4. CABINET FOR MICROWAVE (28" x 26" x 84")
5. (12) CHAIRS
6. MINI REFRIGERATOR (21" x 32" x 23")
7. REFRIGERATOR (28" x 29" x 66")
8. (3) MICROWAVES
9. TOASTER OVEN
10. WALL CLOCK

NOTES:

1. RECEPTION DESK (6' X 6' X 44")
2. WOOD BOOKSHELF (3' X 1' X 6')
3. ROUND TABLE (4' DIAMETER)
4. FILE CABINET (36" X 22" X 30")
5. MICROWAVE
6. TALL FILE CABINET (30" X 18" X 64")
7. (3) CHAIRS

1. SEE AD101 AND AD102 FOR ROOM LOCATIONS
2. SEE PH101 FOR CONSTRUCTION PHASING.
3. CONTRACTOR SHALL CAREFULLY REMOVE AND STORE ALL FURNITURE FROM EACH PHASE DURING CONSTRUCTION AND REINSTALL IN SAME LOCATIONS ONCE PHASE IS COMPLETE.
4. CONTRACTOR TO DOCUMENT EXISTING CONDITIONS OF FURNITURE AT ONSET OF CONSTRUCTION AND PROVIDE INFORMATION TO GOVERNMENT.

1. (2) CUBICLES (APPROX. 15' X 15' X 5')
2. WOOD BOOKSHELF (3' X 1' X 6')
3. COPIER (29" X 29" X 48")
4. RECEPTION DESK (6' X 6' X 44")
5. REFRIGERATOR (28" X 29" X 66")
6. TOASTER OVEN
7. MICROWAVE
8. SMALL SHELF (25" X 30" X 20")
9. TALL CABINET (18" X 36" X 64")
10. SMALL TABLE (5" X 26")
11. SMALL DEHUMIDIFIER
12. SMALL FILE CABINET (16" X 24" X 28")
13. (7) CHAIRS

OPEN OFFICE 129:

1. (2) WOOD FOLDING TABLES (6' X 30")
2. (14) FOLDING TABLE (5' X 30")
3. (2) FOLDING TABLES (8' X 30")
4. (2) WOOD DESKS (30" X 60")
5. (2) LARGE FILE CABINETS (70" X 2' X 4')
6. (4) 55" FLATSCREEN TV'S
7. (1) 75" FLATSCREEN TV
8. (50) CHAIRS
9. PROJECTOR SCREEN
10. 12' WHITEBOARD
11. WOOD PODIUM

1. WOOD DESK (30" X 60")
2. STAND UP DESK (23" X 42")
3. COPIER (29" X 29" X 48")
4. WOOD BOOKSHELF (3' X 1' X 6')
5. REFRIGERATOR (28" X 29" X 66")
6. (5) CHAIRS
7. SMALL WOOD TABLE (2' X 4' X 30")
8. SMALL FILE CABINET (16" X 24" X 28")

OFFICE 129A:

1. (16) VERIDESKS (3' x 30")
2. (16) CHAIRS
3. 30" TV
4. 12' WHITEBOARD
5. CEILING MOUNT PROJECTOR
6. PROJECTOR SCREEN
7. 55" FLATSCREEN TV
8. LARGE FILE CABINET (70" X 2' X 4')
9. (2) WOOD PODIUMS)

1. WOOD DESK (30" X 60")
2. STAND UP DESK (23" X 42")
3. CONFERENCE TABLE (71" X 30" X 36")
4. WOOD BOOKSHELF (3' X 1' X 6')
5. STORAGE CABINET (30" X 22" X 30")
6. MINI REFRIGERATOR (21" X 32" X 23")
7. 55" FLATSCREEN TV
8. WOOD STORAGE CABINET (30" X 13" X 49")
9. ROLLING STORAGE CABINET (26" X 18" X 24")
10. (2) SMALL FILE CABINET (16" X 24" X 28")
11. (8) CHAIRS





B1 PHOTOGRAPH
SCALE: NO SCALE
HM101



A1 PHOTOGRAPH
SCALE: NO SCALE
HM102



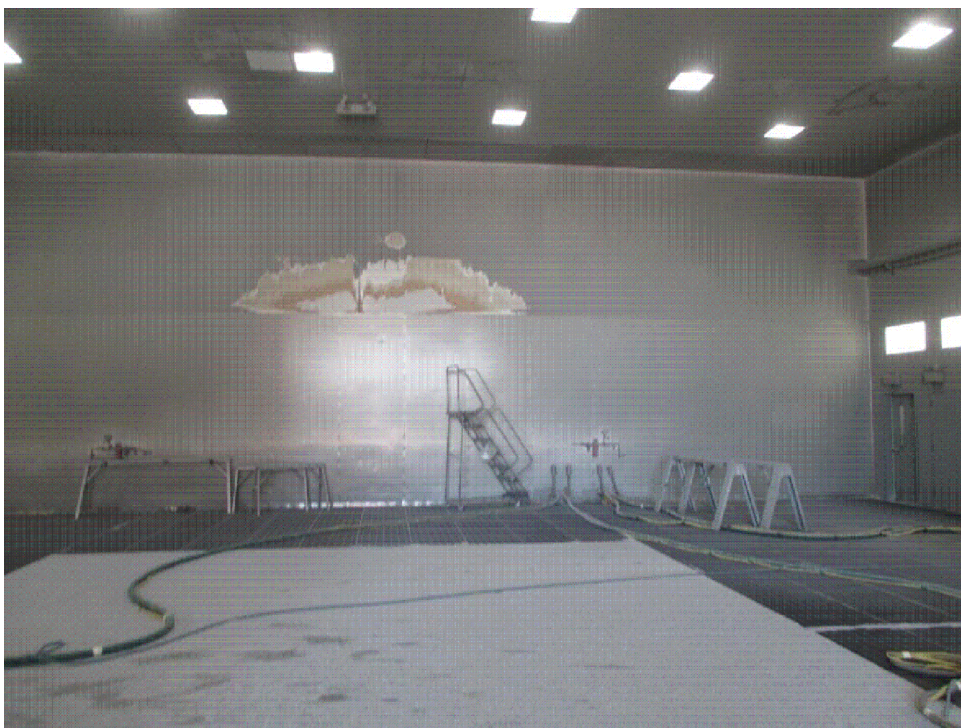
B2 PHOTOGRAPH
SCALE: NO SCALE
HM102



A2 PHOTOGRAPH
SCALE: NO SCALE
HM102



B3 PHOTOGRAPH
SCALE: NO SCALE
HM102



A3 PHOTOGRAPH
SCALE: NO SCALE
HM101

GENERAL SHEET NOTES

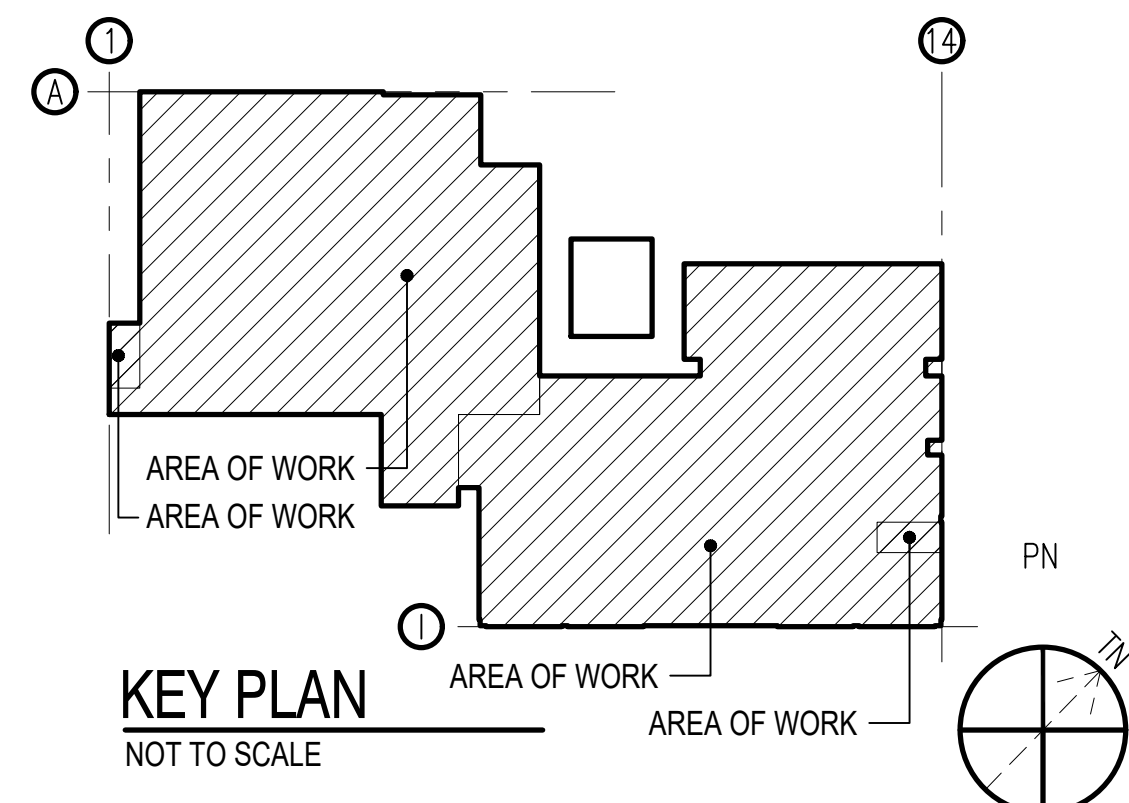
(HM001 - HM102)

- A. A HAZARDOUS MATERIALS INSPECTION WAS PERFORMED. THE SURVEY/INSPECTION REPORT IS PROVIDED IN THE SPECIFICATIONS. THE WORK WILL NOT REQUIRE THE REMOVAL OF KNOWN ASBESTOS-CONTAINING MATERIALS (ACM); HOWEVER, THE SUSPENDED ACOUSTICAL CEILING TILES IN THE BLASTING BOOTH ARE ASSUMED TO BE ACM UNTIL TESTED AND PROVEN OTHERWISE. DESTRUCTIVE ACTIVITIES SUCH AS BREAKING INTO WALLS, CEILINGS AND FLOORS WERE NOT PERFORMED IN ORDER TO LOCATE MATERIALS. THEREFORE, IF DURING THE WORK SUSPECT MATERIALS ARE UNCOVERED, THE CONTRACTOR SHALL STOP WORK UNTIL THE MATERIAL IS PROPERLY IDENTIFIED AND ADDRESSED.
- B. THE CONTRACT DOCUMENTS REPRESENT CONDITIONS WITHIN THE FACILITY AT THE TIME OF THE INITIAL FIELD INVESTIGATION. REFER TO REPORT TO DETERMINE THOSE CONDITIONS. SHOULD CONDITIONS EXISTS OTHER THAN THOSE INDICATED IN THE REPORT, CONSULT THE ON-SITE PRIVATE QUALIFIED PERSON AND THE DESIGNER OF RECORD FOR VERIFICATION.
- C. CONTRACTOR SHALL VISIT THE SITE TO ASCERTAIN THE EXACT NATURE AND LOCATION OF THE WORK INCLUDING THE WORK OR COST THEREOF.
- D. CONTRACTOR SHALL COORDINATE ALL ASPECTS OF THE WORK WITH OTHER TRADES. SEE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DEMOLITION DRAWINGS FOR COORDINATION REQUIREMENTS.
- E. REMOVE ASBESTOS CONTAINING MATERIALS IN ACCORDANCE WITH SPECIFICATION SECTION 02 82 00.
- F. DECONTAMINATE THE BLASTING BOOTH, ALL ASSOCIATED EQUIPMENT, WALLS, FLOOR CEILINGS, PIPES, CONDUITS, PANEL BOXES, BELOW GRADE TRENCHES, HVAC EQUIPMENT AND DUCTWORK, ADJACENT OFFICE SPACES, AND ALL AREAS CONTAINING RESIDUAL BLASTING DUST IN ACCORDANCE WITH SPECIFICATION SECTION 02 83 00.
- G. EXISTING PAINT WITHIN THE STRUCTURE HAS BEEN DETERMINED TO CONTAIN CONCENTRATIONS ABOVE THE LABORATORY'S MINIMUM DETECTION LIMIT OF THE FOLLOWING METALS: LEAD, CADMIUM AND CHROMIUM. PERFORM RENOVATION WORK IN ACCORDANCE WITH SPECIFICATION SECTION 02 83 13. "LEAD REMEDIATION". CONSTRUCTION STANDARDS ESTABLISHED BY OSHA FOR CHROMIUM, CADMIUM AND LEAD ARE; CHROMIUM, 29 CFR 1926.1126; CADMIUM, 29 CFR 1926.1127 AND LEAD, 29 CFR 1926.62
- H. TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP) TESTING ON EXISTING PAINTED BUILDING MATERIALS, WHEN DEMOLISHED AS COMPONENTS OF AN ASSEMBLY TYPICALLY RETURN RESULTS CLASSIFYING THE WASTE AS NONHAZARDOUS. PAINTED MATERIAL REMOVED IN THE FORM OF STRIPPING, BLASTING, SCRAPING OR OTHER METHODS THAT REMOVE THE PAINT COATING FROM THE EXISTING SUBSTRATE, OR PRODUCES A WASTE RESULTING PRIMARILY OF PAINT MATERIAL, MAY RESULT IN WASTE CLASSIFIED AS HAZARDOUS. THE CONTRACTOR SHALL COORDINATE THE WORK PROCEDURES TO CHARACTERIZE THE ANTICIPATED WASTE STREAM. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH CHARACTERIZATION AND DISPOSAL OF WASTE GENERATED FROM THE WORK.
- I. REMOVE MOLD CONTAMINATION IN ACCORDANCE WITH SPECIFICATION SECTION 02 85 00 MOLD REMEDIATION. WATER STAINED AND MOLD CONTAMINATED SUSPENDED ACOUSTICAL CEILING TILES (SACT) AND HVAC DIFFUSERS/VENTS WERE OBSERVED IN THE BUILDING. FOR BIDDING PURPOSES ASSUME CLEANING 500 SF OF GYPSUM WALLBOARD/MASONRY WALLS AND REMOVAL AND DISPOSAL OF 200 SF OF ACOUSTICAL SACT.
- J. MOLD CONTAMINATION MAY EXIST IN VARIOUS HVAC DUCTS AND COMPONENTS BEING DEMOLISHED. EXERCISE CAUTION WHEN DEMOLISHING HVAC DUCTS AND COMPONENTS. SEAL HVAC DUCTS AND COMPONENTS AS REQUIRED TO PREVENT THE SPREAD OF MOLD CONTAMINATION.
- K. THE RESIDUAL BLASTING DUST IN THE BLASTING BOOTH AREA HAS BEEN TCLP ANALYZED AND DETERMINED TO BE NONHAZARDOUS.
- L. ALL LIGHT BALLASTS WITHOUT "NON PCB" MARKINGS AND ALL FLUORESCENT LIGHT TUBES SHALL BE REMOVED IN ACCORDANCE WITH SPECIFICATION SECTION 02 84 16. FOR BIDDING PURPOSES, ASSUME 5 BALLASTS CONTAIN PCB's AND 788 FLUORESCENT LIGHT TUBES AND 28 HIGH INTENSITY DISCHARGE LAMPS CONTAIN MERCURY VAPOR.
- M. MANAGE ALL WASTE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS INCLUDING 40 CFR 261 AND 40 CFR 262. COMPLY WITH ALL INSTALLATION EV REQUIREMENTS.

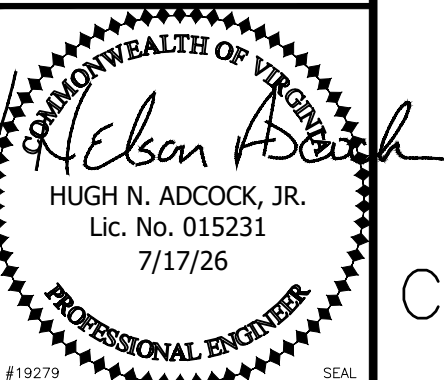
PHOTOGRAPH DESCRIPTIONS

(HM001 - HM102)

- (A1) TYPICAL VIEW CLASSROOM #7 (105). SAGGING SACT AND RUSTED SACT GRID WAS OBSERVED.
- (A2) TYPICAL VIEW OF THE FLEXIBLE, TAPED FIBERGLASS HVAC DUCTS OBSERVED ABOVE THE SACT.
- (A3) TYPICAL VIEW OF BLASTING AREA. RESIDUAL BLAST MEDIA IS VISIBLE ON THE FLOOR.
- (B1) TYPICAL VIEW OF THE VENTILATION EQUIPMENT AND ROOF ON TOP OF THE PMB BUILDING.
- (B2) TYPICAL VIEW OF THE SHAKER TABLE IN THE BLAST MEDIA RECYCLING AREA. RESIDUAL BLAST MEDIA IS VISIBLE ON THE FLOOR.
- (B3) TYPICAL VIEW OF THE FIBERGLASS INSULATED EQUIPMENT OBSERVED IN THE MECHANICAL ROOM ADJACENT TO THE HIGH BAY AREA.



GRAPHIC SCALE:



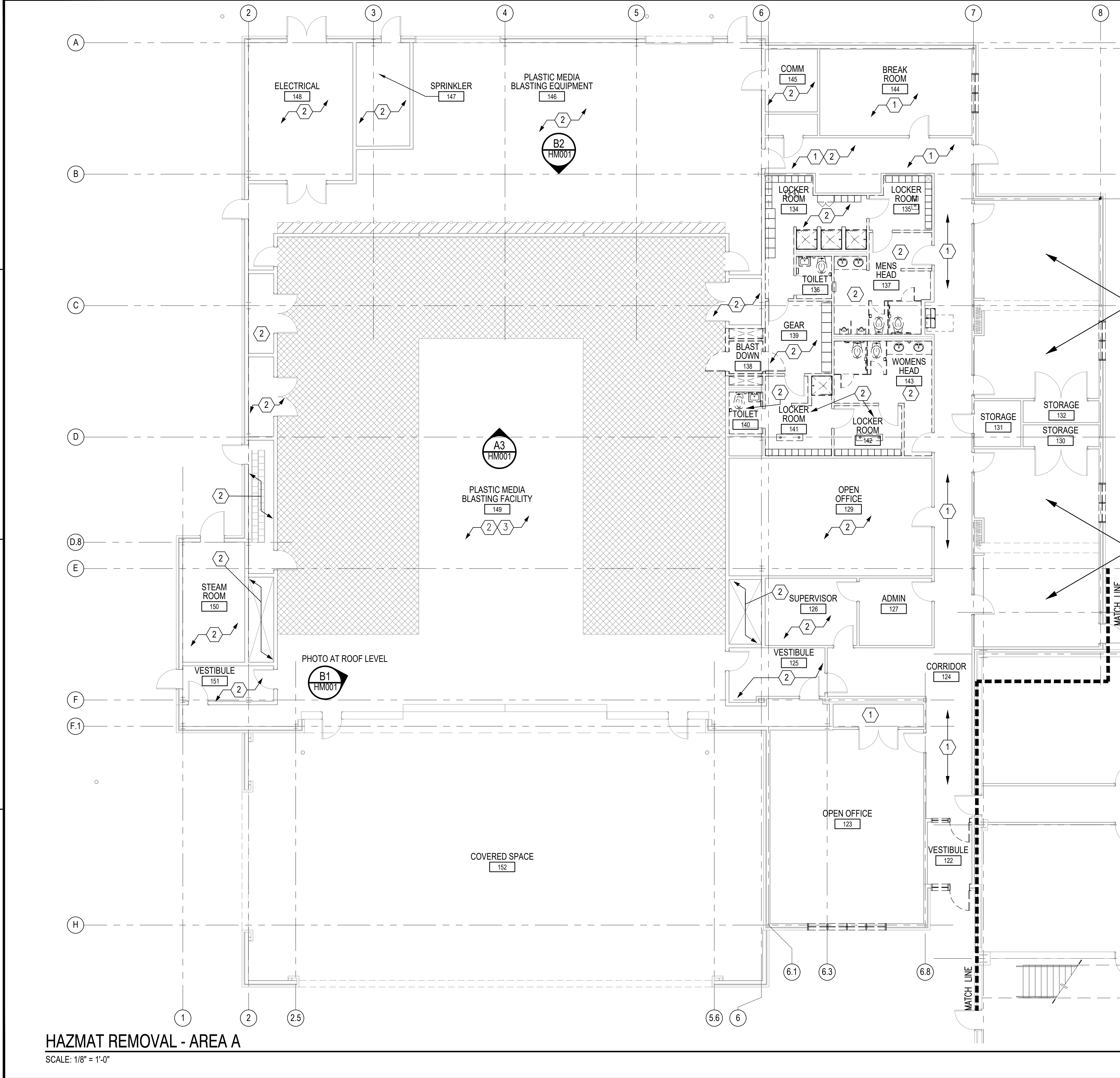
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U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
**REPAIR AND UPGRADE
BUILDING 4034, FRC-E**
HAZMAT GENERAL NOTES AND PHOTOGRAPHS

SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO.
7375939
NAVFAC DRAWING NO.
12816217
SHEET 6 OF 113
HM001

DRAWING REVISION: 10 MAY 2014

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HAZMAT REMOVAL - AREA A
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

(HM101)

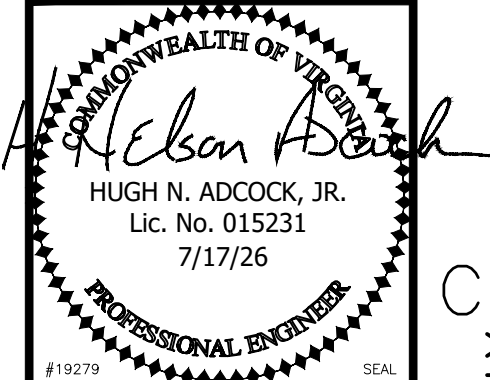
- 1 REMOVE STAINED AND MOLD CONTAMINATED SACT.
- 2 REMOVE AND DISPOSE OF RESIDUAL BLAST MEDIA ON ALL SURFACES.
- 3 REMOVE ACM SACT.

LEGEND

(HM001 - HM102)



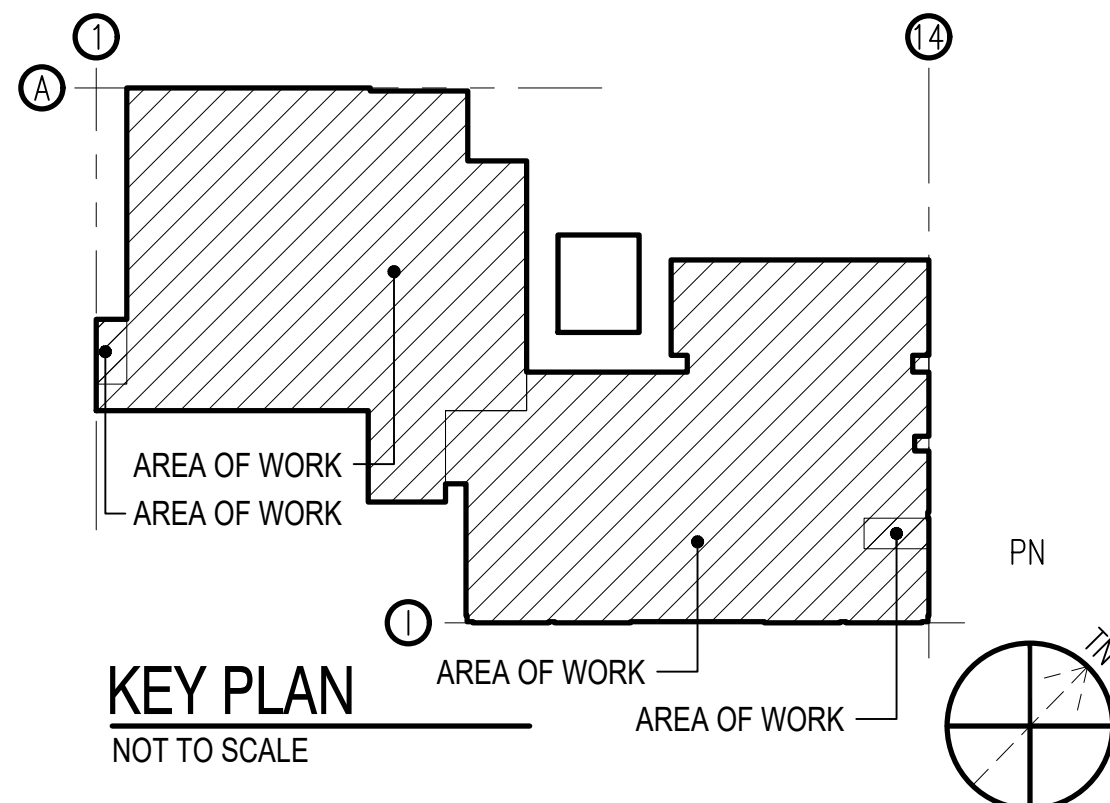
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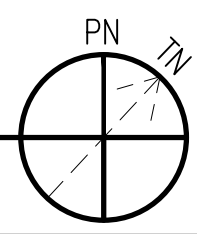
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U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
**REPAIR AND UPGRADE
BUILDING 4034, FRC-E**
HAZMAT REMOVAL - AREA A



GRAPHIC SCALE:



SCALE:	AS NOTED
PROJECT NO.:	XK11237
MAXIMO WORK ORDER NO.	7375939
NAVFAC DRAWING NO.	12816218
SHEET	7 OF 113
HM101	

D

C

- B

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FOR

- DESIGN LOADS:

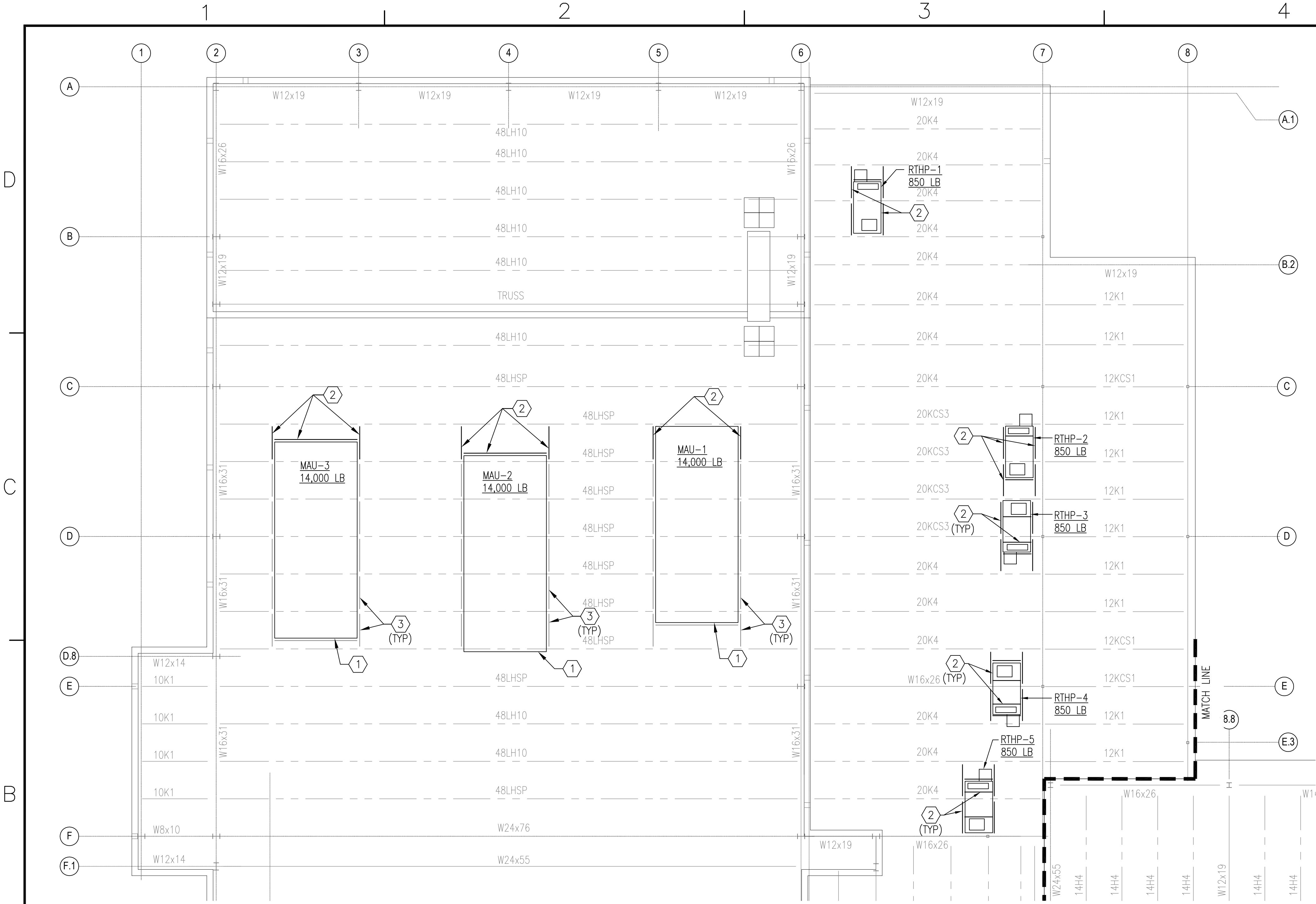
1. OCCUPANCY RISK CATEGORY: II

5. SNOW LOADS:
GROUND SNOW LOAD: 10 PSF

1

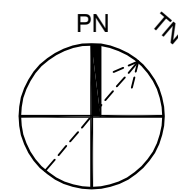
C

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PARTIAL ROOF FRAMING PLAN

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

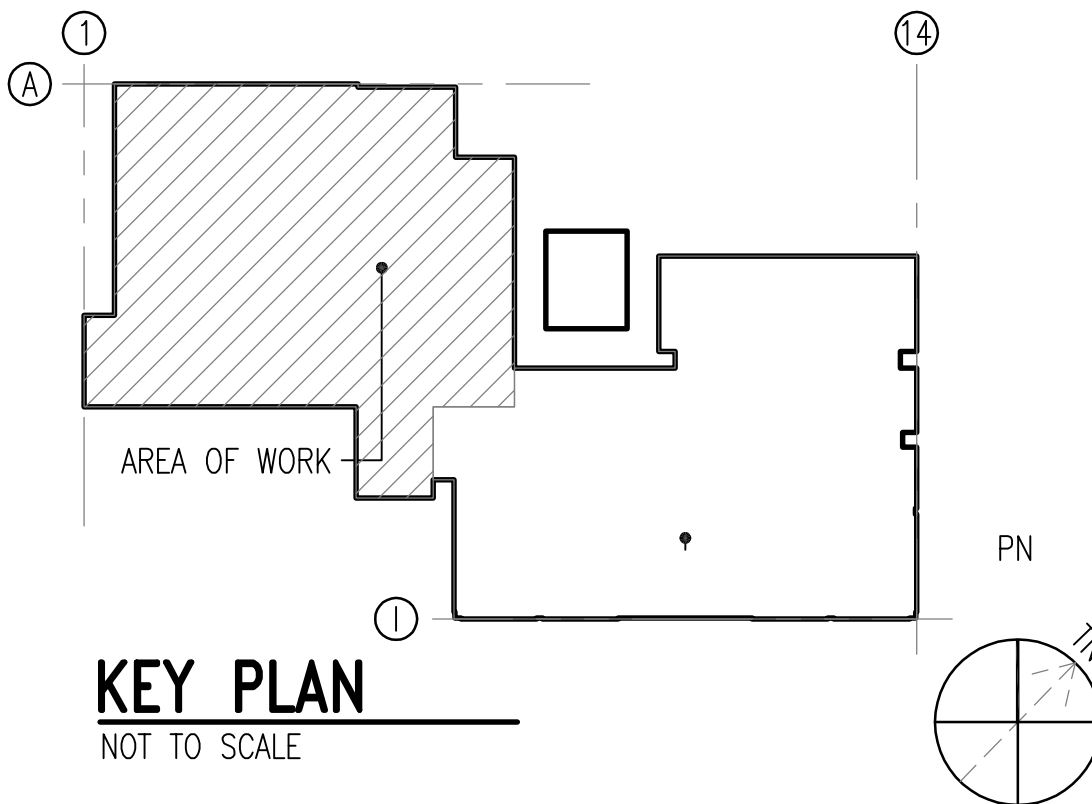


GENERAL SHEET NOTES

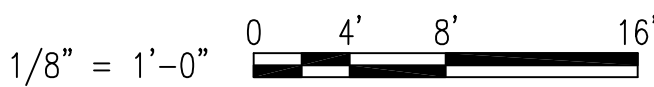
- UNLESS OTHERWISE NOTED, EXISTING ROOF CONSTRUCTION IS 1 1/2" DEEP, STEEL ROOF DECK SUPPORTED ON OPEN WEB STEEL JOIST, AND STEEL BEAMS.
- APPROXIMATE MECHANICAL UNIT WEIGHTS ARE SHOWN ON PLAN. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL UNITS.
- REFER TO ARCHITECTURAL DRAWINGS FOR ROOFING AND CURB DETAILS.
- FOR GENERAL NOTES REFER TO SHEET S-001.
- FOR TYPICAL DETAILS REFER TO SHEET S-501.

SHEET KEYNOTES

- OUTLINE OF NEW ROOF TOP MECHANICAL UNIT SUPPORTED ON NEW CURB. REFER TO MECHANICAL DRAWINGS (TYP)
- PROVIDE L4x4x3/8 UNDER MECHANICAL EQUIPMENT CURBS AND EACH SIDE OF NEW ROOF OPENING. CONTRACTOR TO COORDINATE FINAL LOCATION OF NEW SUPPORTS WITH DESIGN ENGINEER, STEEL ERECTOR, AND MECHANICAL CONTRACTOR. PROVIDE JOIST REINFORCING WHERE REQUIRED, REFER TO C2/S-501.
- EXISTING MECHANICAL UNIT CURB SUPPORT. CONTRACTOR TO VERIFY. IF CURB SUPPORT IS CHANNEL ON ROOF DECK, CONTRACTOR TO USE C6x8.2 TO SUPPORT NEW MECHANICAL UNIT CURB.



GRAPHIC SCALE:



SYN	DESCRIPTION	DATE	APPR



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Structural Consultants
748 Lord Dumfries Drive, Suite 101
Virginia Beach, VA 23464
Phone 757-474-0812
Fax 757-474-0819

APPROVED: _____ A/E INFO: _____

FOR COMMANDER NAVFAC

ACTIVITY: _____

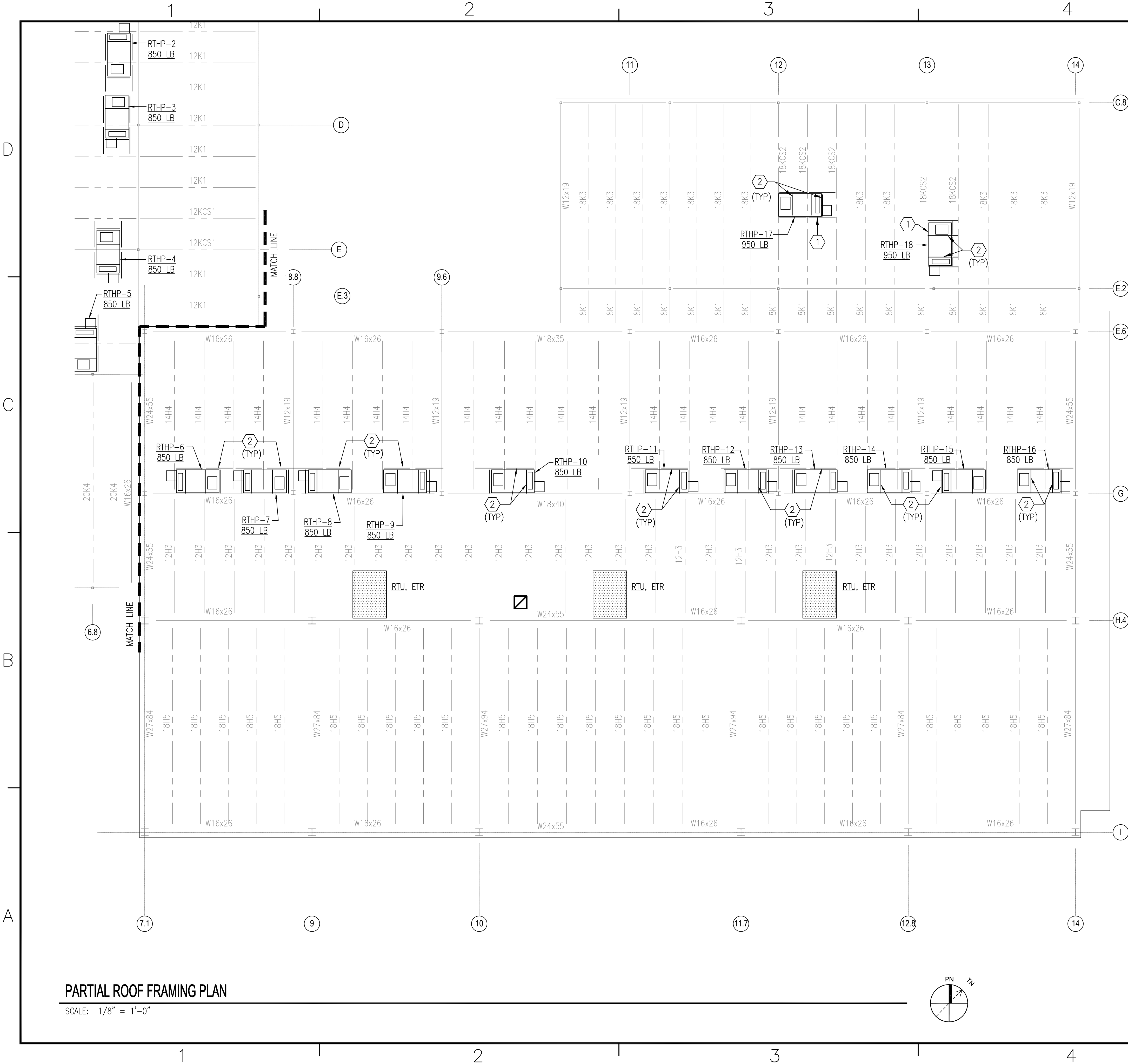
SATISFACTORY TO: _____

DES: **KMR** | DRW: **KMR** | CHK: **KMR**

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
**REPAIR AND UPGRADE
BUILDING 4034, FRC-E**
PARTIAL ROOF FRAMING PLAN

SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO. 7375939
NAVFAC DRAWING NO. 12816221
SHEET 10 OF 113
S-101

DRAWING REVISION: 10 MAY 2014



PARTIAL ROOF FRAMING PLAN

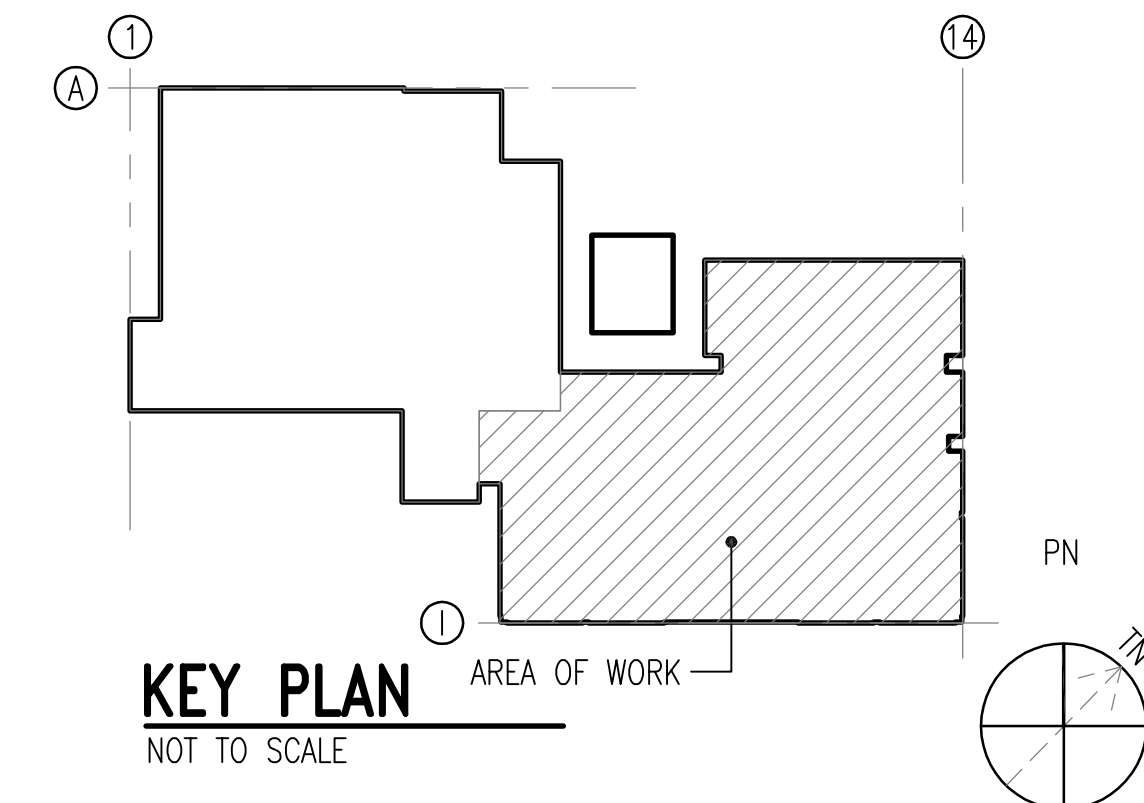
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

- UNLESS OTHERWISE NOTED, EXISTING ROOF CONSTRUCTION IS 1/2" DEEP STEEL ROOF DECK SUPPORTED ON OPEN WEB STEEL JOIST, AND STEEL BEAMS.
- APPROXIMATE MECHANICAL UNIT WEIGHTS ARE SHOWN ON PLAN. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL UNITS.
- REFER TO ARCHITECTURAL DRAWINGS FOR ROOFING AND CURB DETAILS.
- FOR GENERAL NOTES REFER TO SHEET S-001.
- FOR TYPICAL DETAILS REFER TO SHEET S-501.

SHEET KEYNOTES

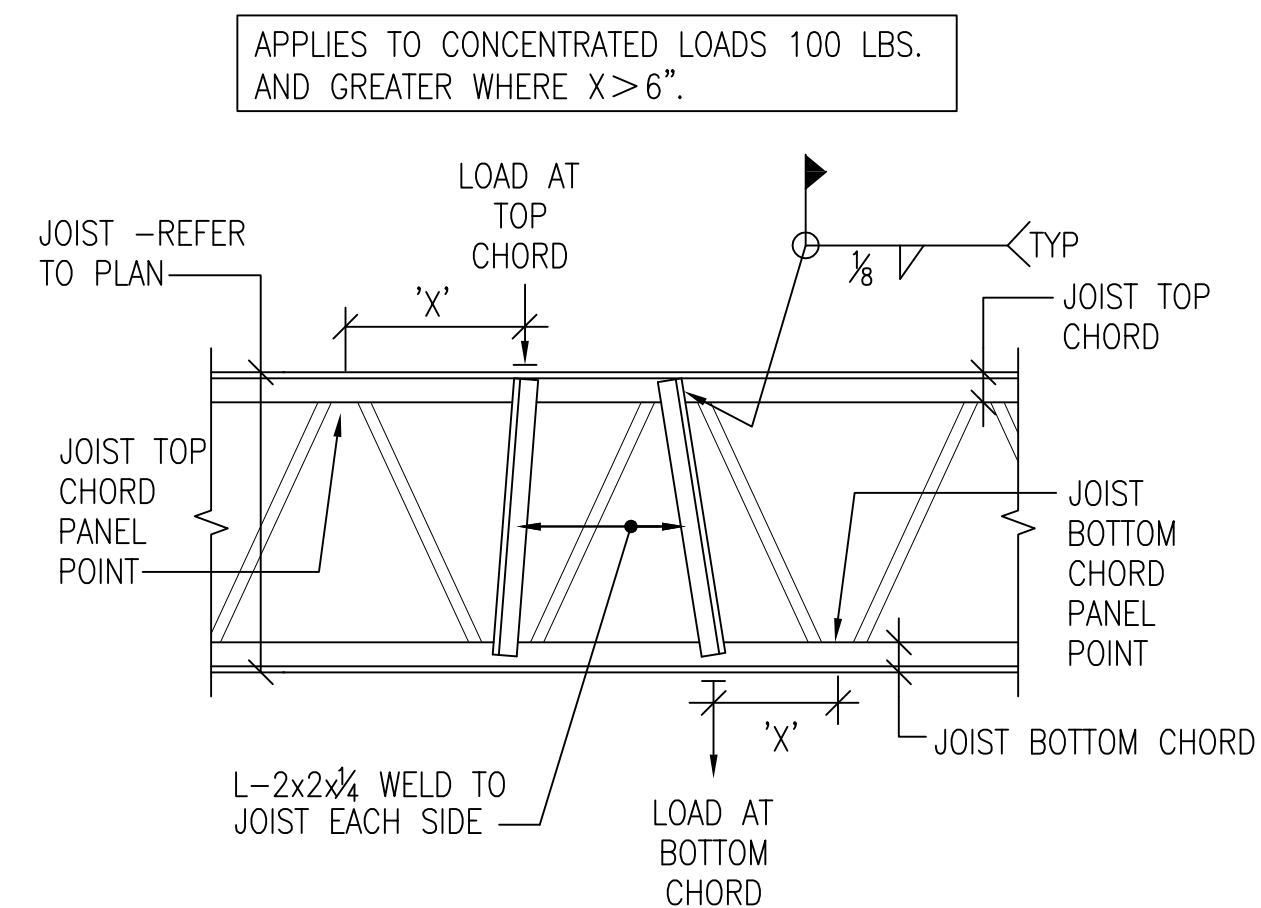
- OUTLINE OF NEW ROOF TOP MECHANICAL UNIT SUPPORTED ON EXISTING CURB OR EXISTING FRAME. REFER TO MECHANICAL DRAWINGS (TYP)
- PROVIDE L4x4x5/16 UNDER MECHANICAL EQUIPMENT CURBS AND EACH SIDE OF NEW ROOF OPENING. CONTRACTOR TO COORDINATE FINAL LOCATION OF NEW SUPPORTS WITH DESIGN ENGINEER, STEEL ERECTOR, AND MECHANICAL CONTRACTOR. PROVIDE JOIST REINFORCING WHERE REQUIRED, REFER TO C2/S-501.



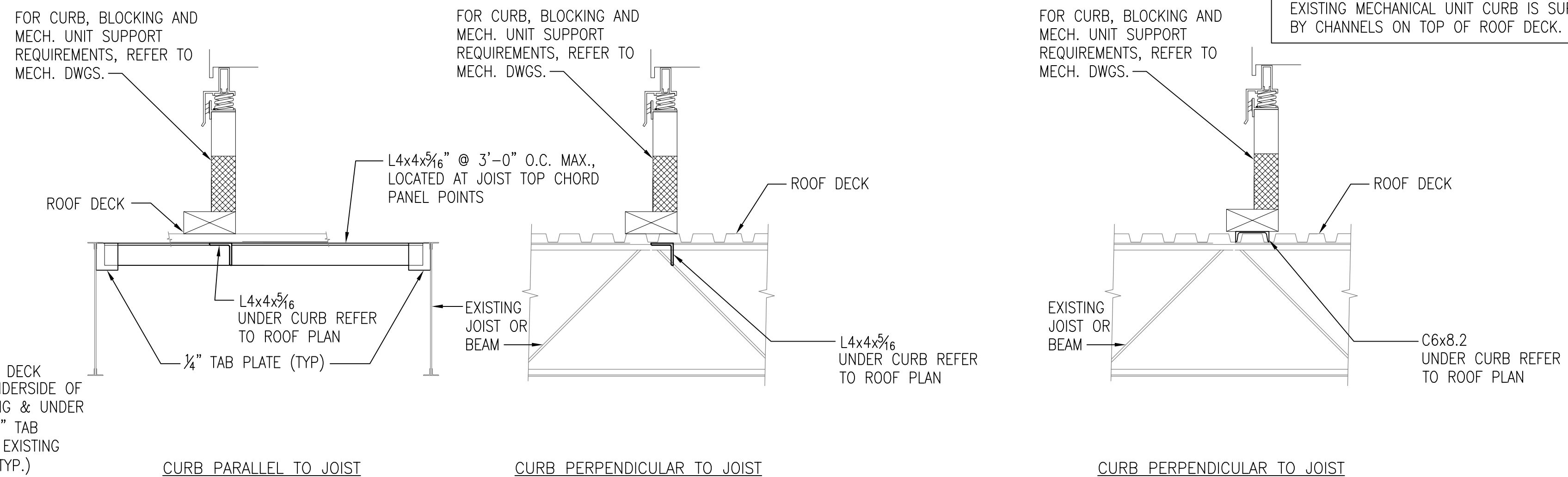
GRAPHIC SCALE:

1/8" = 1'-0" 0 4' 8' 16'

APPR	DATE	SYN	DESCRIPTION
APPROVED			
FOR COMMANDER NAVFAC			
ACTIVITY			
SATISFACTORY TO			
DES KMR DRW KMR CHK KMR			
U.S. MARINE CORPS AIR STATION CHERRY POINT, NORTH CAROLINA REPAIR AND UPGRADE BUILDING 4034, FRC-E PARTIAL ROOF FRAMING PLAN			
SCALE: AS NOTED			
PROJECT NO.: XK11237			
MAXIMO WORK ORDER NO. 7375939			
NAVFAC DRAWING NO. 12816222			
SHEET 11 OF 113			
S-102			
DRAWING REVISION: 10 MAY 2014			



C2 DETAIL - JOISTS REINFORCING FOR LOADS BETWEEN PANEL POINTS
NOT TO SCALE



EXISTING SLAB

NEW SLAB

EXISTING SLAB

TOP OF NEW 5" CONC SLAB (MATCH EXISTING). REINF. w/ 6x6-W2.9xW2.9 WWF LOCATED 1/4" FROM TOP OF SLAB

DRILL AND EPOXY GROUT INTO EXISTING SLAB 6" (TYP)

TOP OF EXISTING 5"± CONC SLAB

3/4"Ø x 1'-6" PLAIN BAR @ 16" OC MIDDLE OF SLAB (GREASE END IN NEW SLAB) TYPICAL

EXISTING SUBGRADE (TYP)

PROVIDE 15 MIL VAPOR BARRIER (TYP)

SLAB (ELEVATION)

FOR LOCATION AND EXTENT, REFER TO ARCHITECTURAL DRAWINGS

EQUIPMENT PAD ON GRADE

NOTE: REFER TO MECHANICAL/CIVIL DRAWINGS FOR DIMENSIONS AND LOCATION OF CONCRETE PAD.

3/4" CHAMFER

#4 AT 12" OC EACH WAY AT MIDDLE OF SLAB

8"

4"

COMPACTED SUBGRADE

NOTE: GENERAL CONTRACTOR COORDINATE ANY REQUIRED ANCHORAGE EMBEDS NEEDED FOR THE EQUIPMENT PLACED ON THE PAD.

FACE OF MECHANICAL EQUIPMENT

CONT 1-#4 AROUND PERIMETER

CONT 3/4" CHAMFER

EXIST. PAVEMENT

6"

MIN

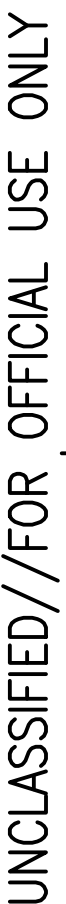
MECHANICAL EQUIPMENT, REFER TO MECHANICAL DWGS

6x6-W2.9xW2.9 WWF. LOCATE 1 1/2" FROM TOP OF SLAB

ROUGHEN CONTACT SURFACE BETWEEN PAVEMENT AND EQUIPMENT PAD

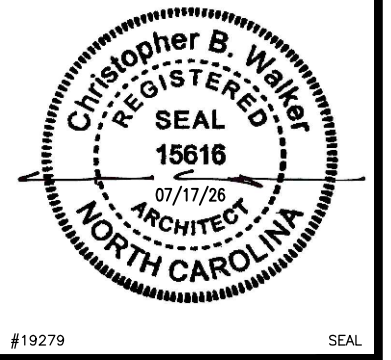
EQUIPMENT PAD ON EXISTING CONCRETE PAVEMENT

SCALE:	NONE	
PROJECT NO.:	XK11237	
MAXIMO WORK ORDER NO.	7375939	
NAVFAC DRAWING NO.	12816223	
SHEET	12	OF 113
S-501		
DRAWFORM (REVISION: 10 MAY 2014)		

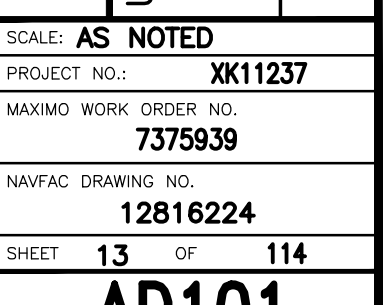


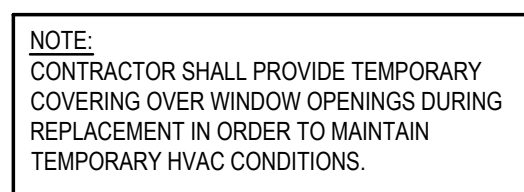
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ARCHITECTURE
incorporated
PO BOX 541, NEW BERN, NC 28563
252-636-8778 252-636-8992(FAX)

SHEET	14	OF	114
AD102			
DRAWFORM REVISION: 10 MAY 2014			
OFFICIAL USE ONLY			

D

C

B

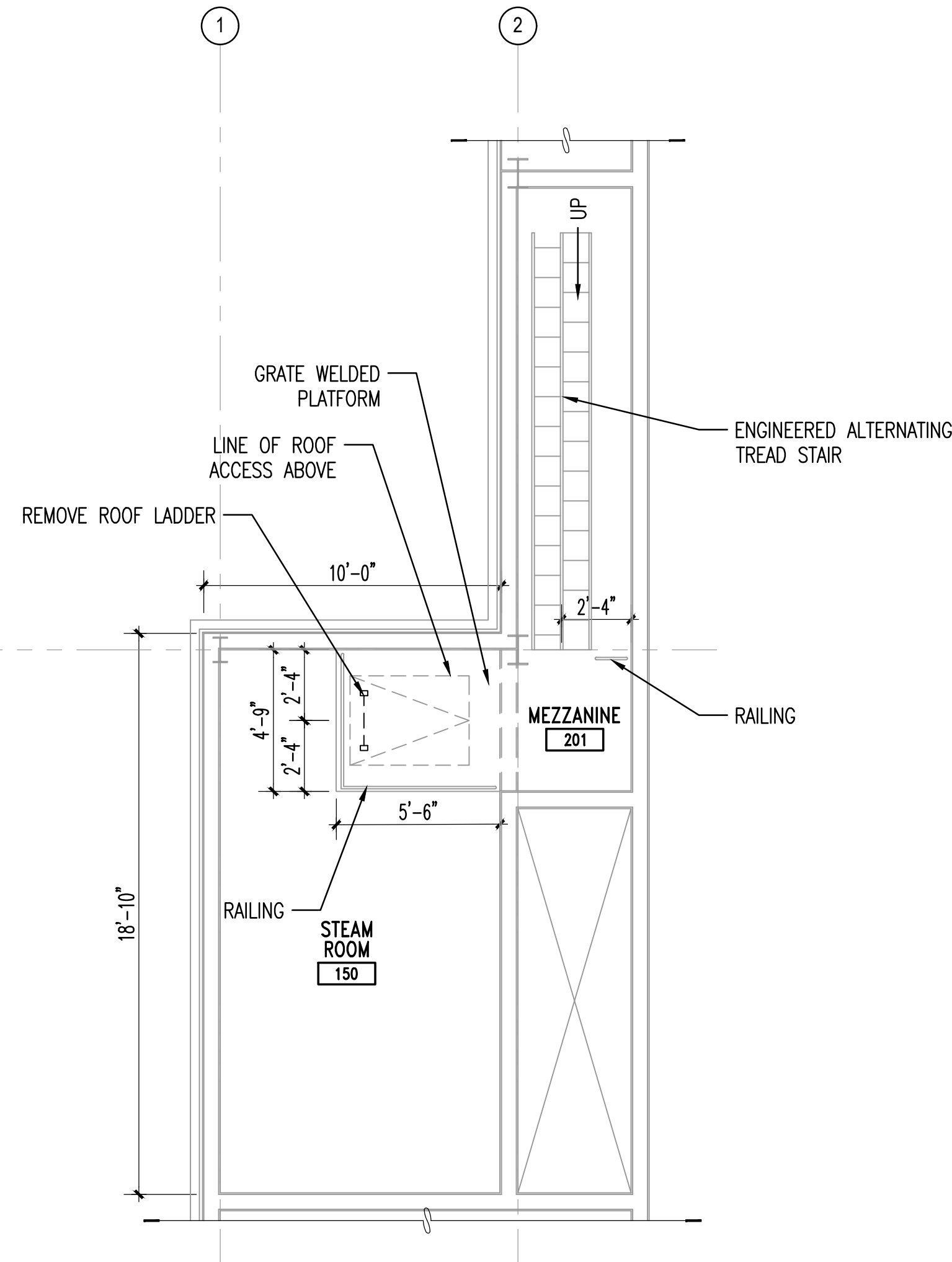
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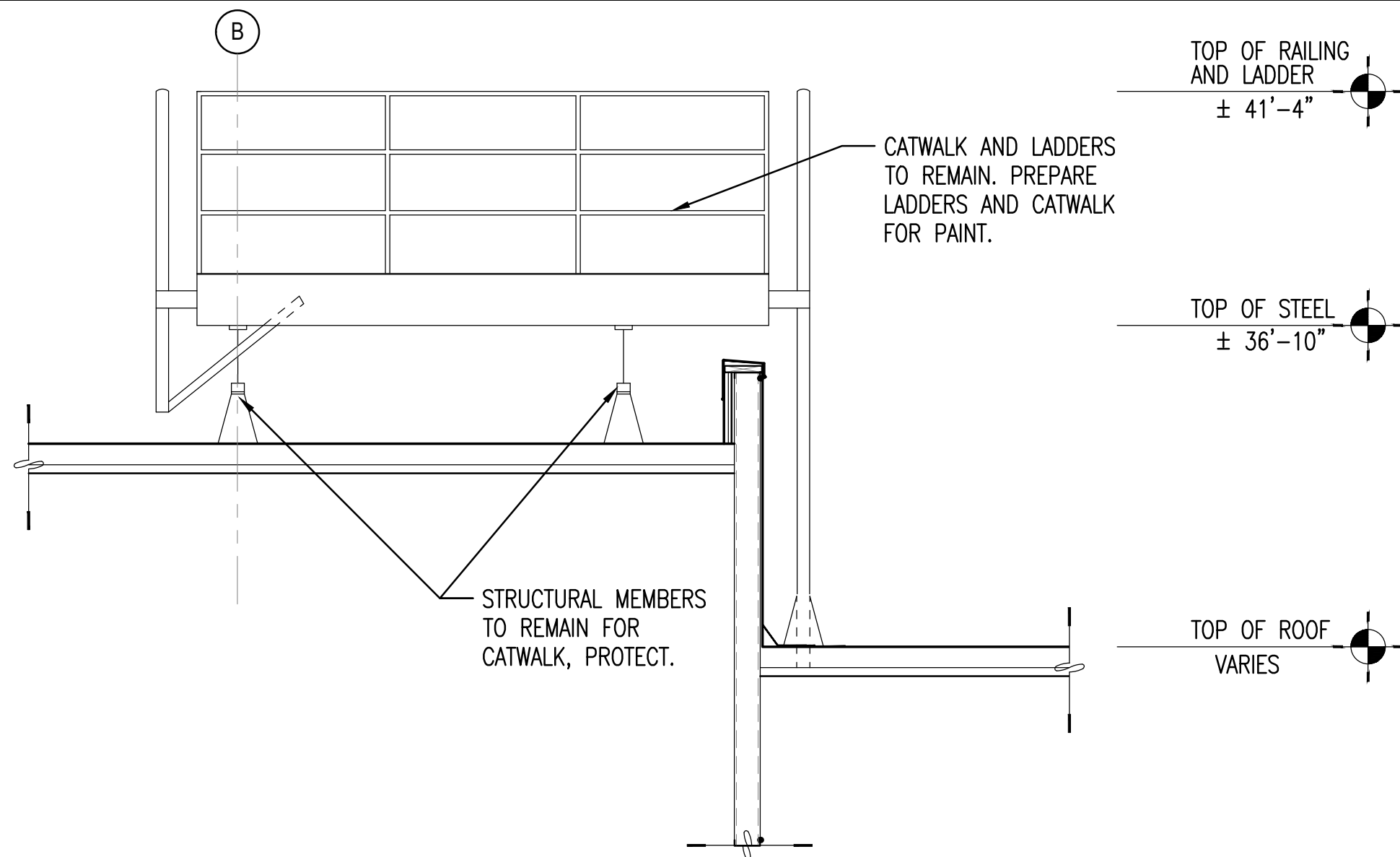
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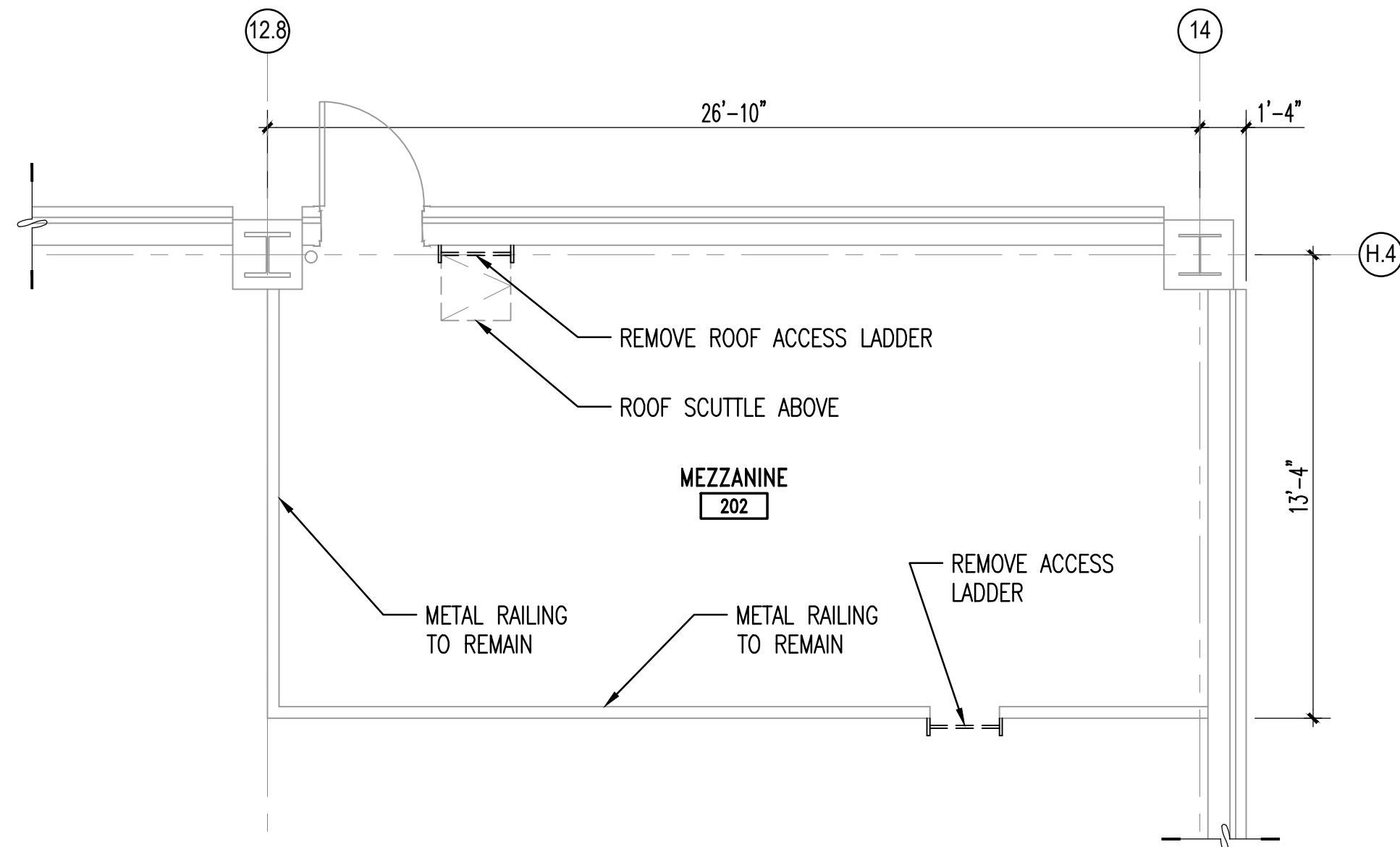
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B1 PLASTIC MEDIA BLASTING FACILITY DEMOLITION MEZZANINE FLOOR PLAN
SCALE: 1/4" = 1'-0" AD101



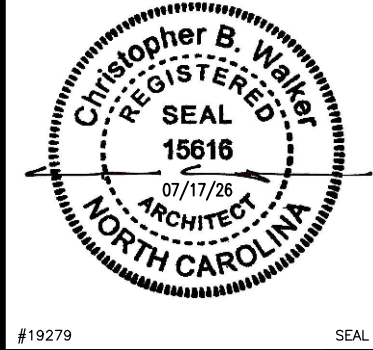
A1 PLASTIC MEDIA BLASTING FACILITY DEMOLITION CATWALK ELEVATION
SCALE: 3/8" = 1'-0" AD106



B3 MEZZANINE DEMOLITION FLOOR PLAN
SCALE: 1/4" = 1'-0" AD102

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS BEFORE COMMENCING WORK.
2. SEE CIVIL, FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES.
3. CONTRACTOR TO PROTECT EXISTING ITEMS TO REMAIN.
4. CONTRACTOR SHALL EITHER PROTECT EXISTING FURNITURE IN PLACE DURING CONSTRUCTION OR CAREFULLY REMOVE, STORE, AND REINSTALL.
5. SEE LEAD AND ASBESTOS REPORT BEFORE COMMENCING WORK.



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Virginia Beach, VA 23464
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Fax 757-474-0919

APPROVED

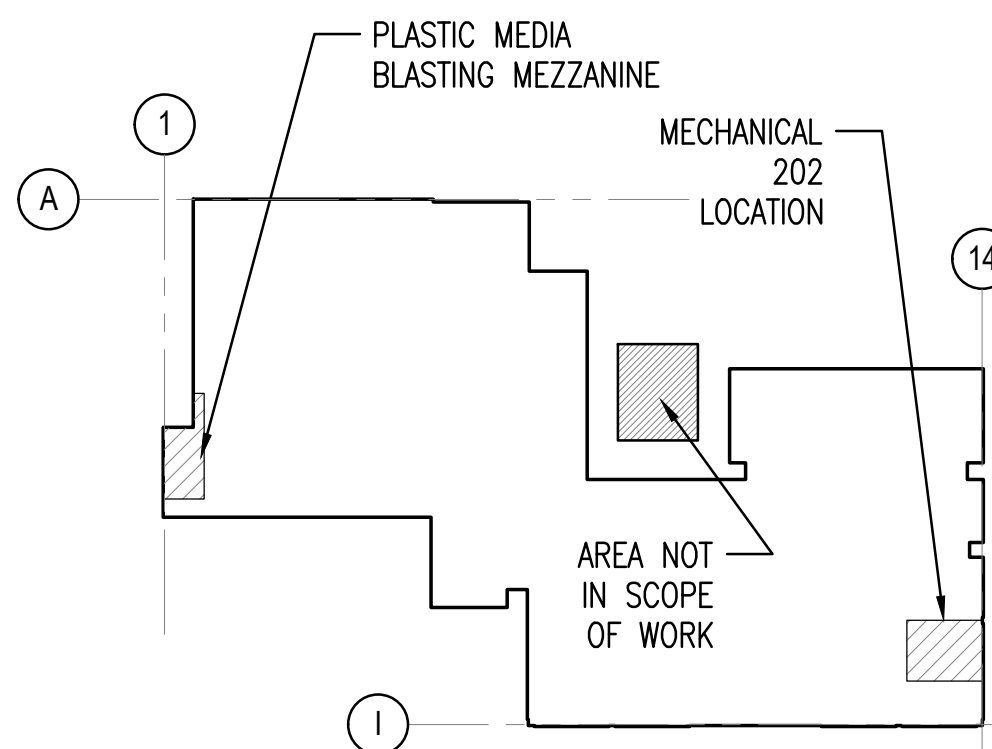
FOR COMMANDER NAVFAC

ACTIVITY

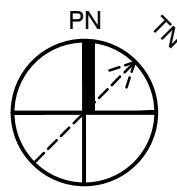
SATISFACTORY TO

BES DRW CHK

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE
BUILDING 4034, FRC-E
DEMOLITION MEZZANINE FLOOR PLANS



KEYPLAN
SCALE: N.T.S.

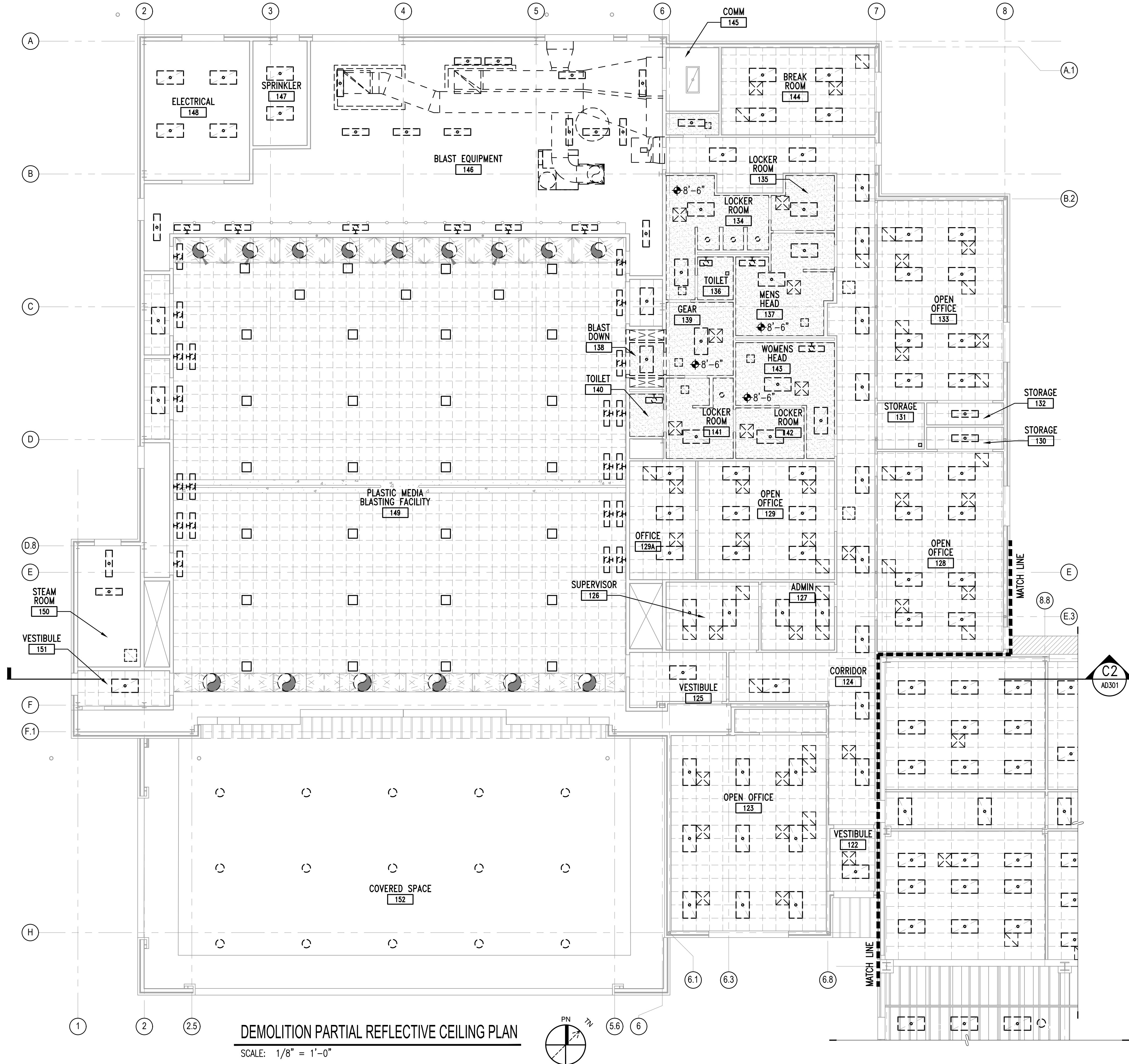


1/4" = 1'-0" 0 2' 4' 8'
3/8" = 1'-0" 0 2' 4' 6'



SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO. 7375939
NAVFAC DRAWING NO. 12816226
SHEET 15 OF 114
AD103

DRAWING REVISION: 10 MAY 2014



DEMOLITION PARTIAL REFLECTIVE CEILING PLAN
SCALE: 1/8" = 1'-0"

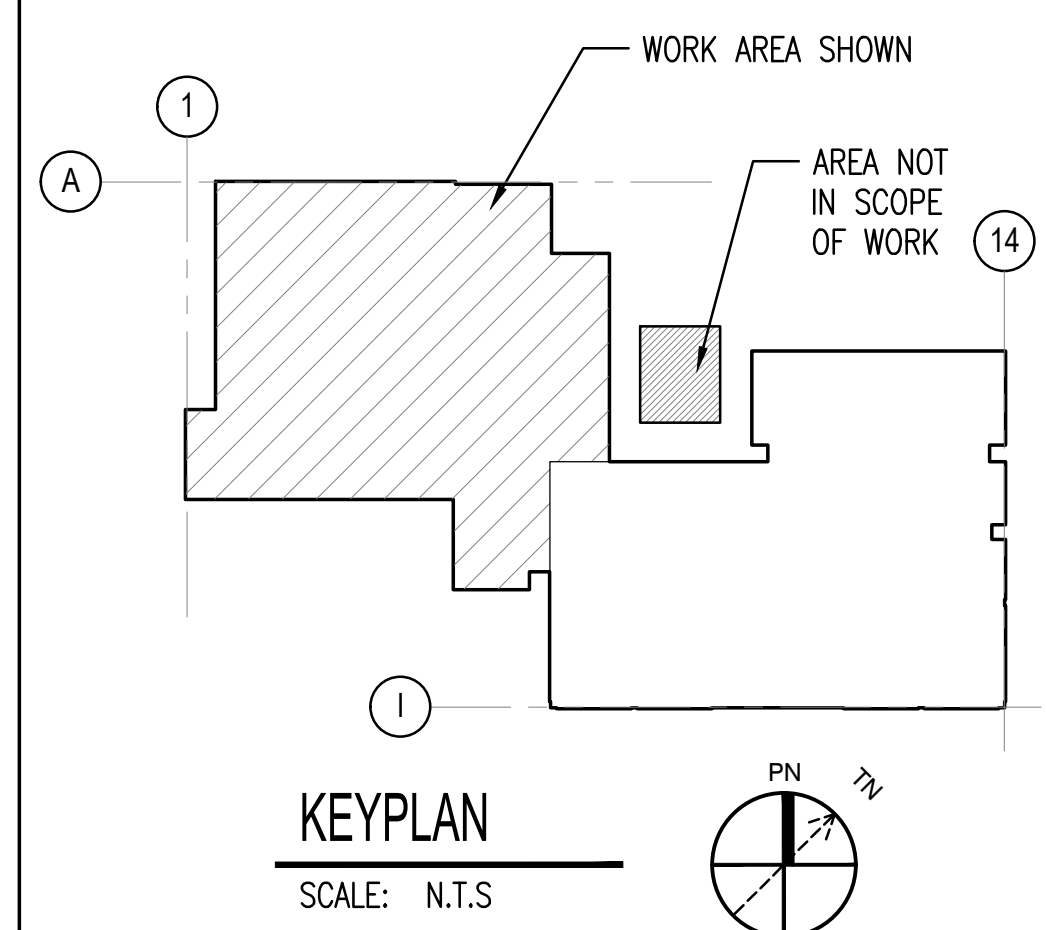
GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS BEFORE COMMENCING WORK.
2. SEE CIVIL, FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES.
3. CONTRACTOR TO PROTECT EXISTING ITEMS TO REMAIN.
4. CONTRACTOR SHALL EITHER PROTECT EXISTING FURNITURE IN PLACE DURING CONSTRUCTION OR CAREFULLY REMOVE, STORE, AND REINSTALL.
5. SEE LEAD AND ASBESTOS REPORT BEFORE COMMENCING WORK.

SHEET KEYNOTES

LEGEND

	EXISTING CEILINGS/SOFFITS TO REMAIN, PROTECT.
	REMOVE 2x4 ACOUSTICAL TILES, GRID, AND HANGARS.
	REMOVE 2x2 ACOUSTICAL TILES, GRID, AND HANGARS. CLEAN AREA ABOVE SUSPENDED CEILING OF ALL ACCUMULATED DUST.
	REMOVE SUSPENDED GYPSUM BOARD CEILING
	REMOVE LIGHT FIXTURES, SEE ELECTRICAL.
	REMOVE HVAC DIFFUSERS, SEE MECHANICAL.
	CEILING HEIGHT INDICATOR



1/8" = 1'-0" 0 4' 8' 16'



U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE
BUILDING 4034, FRC-E
DEMOLITION PARTIAL REFLECTIVE CEILING PLAN

SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO. 7375939
NAVFAC DRAWING NO. 12816227
SHEET 16 OF 114
AD104

APPROVED: [Signature]
DATE: [Blank]
SYN: [Blank]
DESCRIPTION: [Blank]

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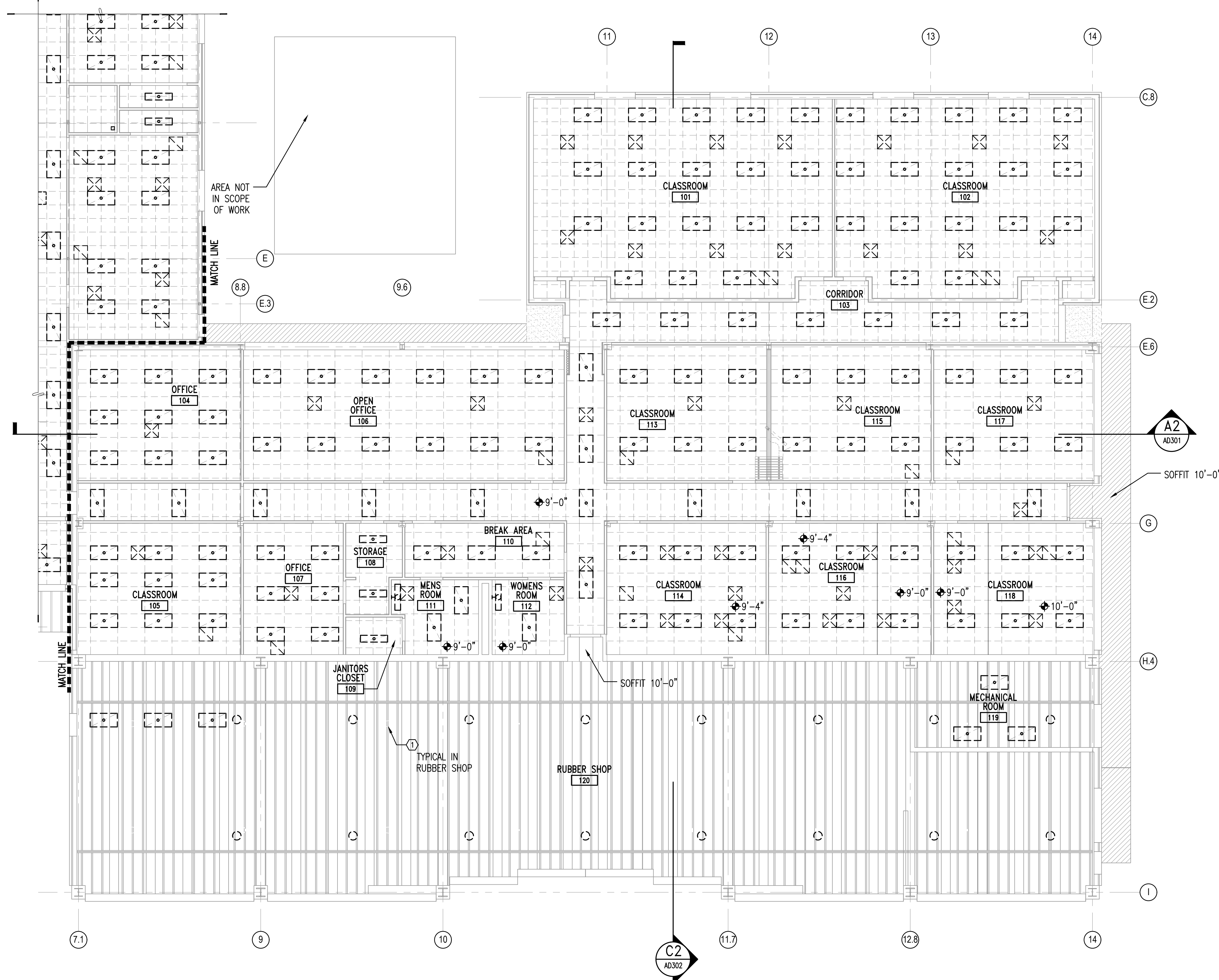
A

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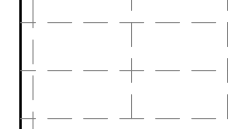
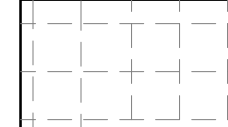
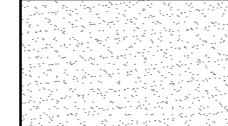
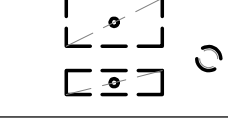
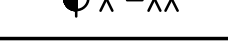


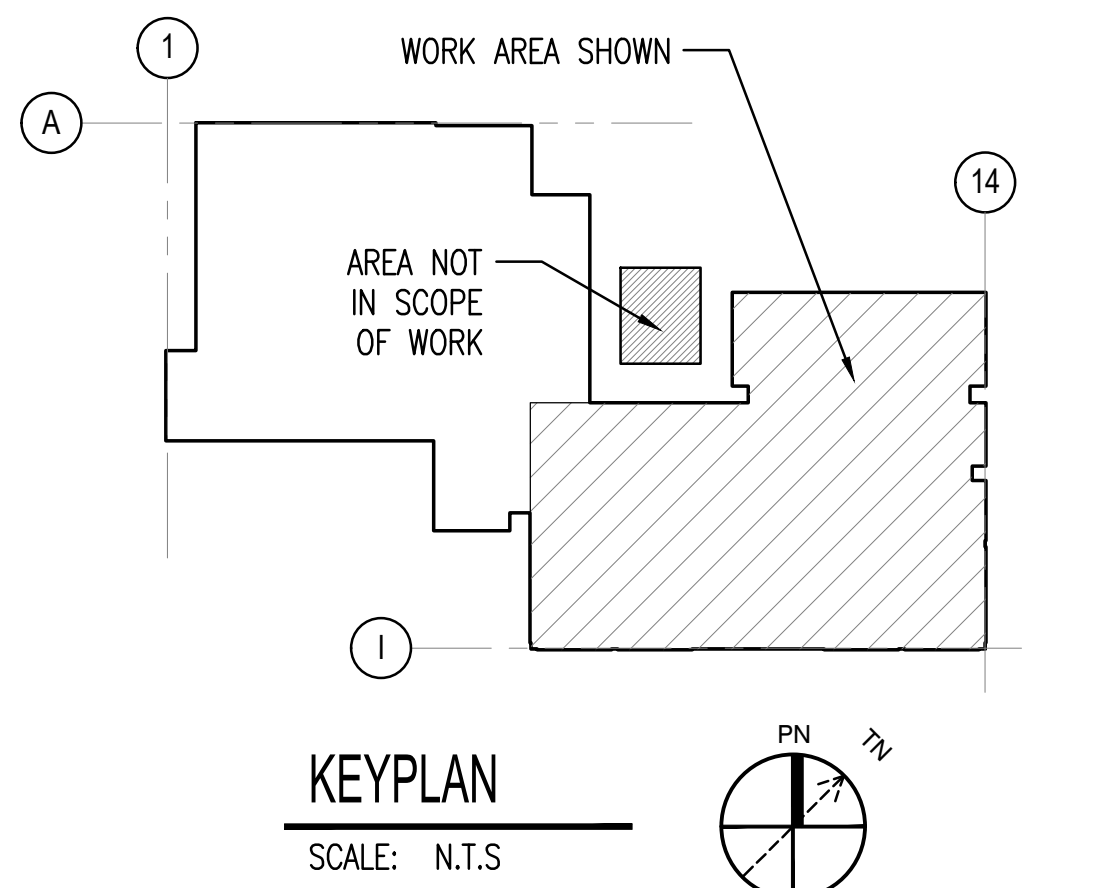
GENERAL SHEET NOTES

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4. CONTRACTOR SHALL EITHER PROTECT EXISTING FURNITURE IN PLACE DURING CONSTRUCTION OR CAREFULLY REMOVE, STORE, AND REINSTALL.
5. SEE LEAD AND ASBESTOS REPORT BEFORE COMMENCING WORK.

SHEET KEYNOTES

LEGEND

		EXISTING CEILINGS/SOFFITS TO REMAIN, PROTECT.
		REMOVE 2x4 ACOUSTICAL TILES, GRID, AND HANGARS
		REMOVE 2x2 ACOUSTICAL TILES, GRID, AND HANGARS
		REMOVE SUSPENDED GYPSUM BOARD CEILING
		REMOVE LIGHT FIXTURES, SEE ELECTRICAL.
		REMOVE HVAC DIFFUSERS, SEE MECHANICAL.
		CEILING HEIGHT INDICATOR



1/8" = 1'-0"

0 4' 8' 16'

WALKER GROUP the ARCHITECTURE Incorporated

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252-636-6178 252-636-6992(PAX)

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DEPARTMENT OF THE NAVY
UNITED STATES MARINE CORPS

Christopher B. Walker
REGISTERED
SEAL
15616
07/17/28
ARCHITECT
NORTH CAROLINA

#19279 SEAL

NRW ENGINEERING
Structural Consultants
748 Lord Dunmore Drive, Suite 101
Virginia Beach, VA 23464
Phone 757-474-0812
Fax 757-474-0919

A/E INFO

APPROVED
FOR COMMANDER NAVFAC

ACTIVITY

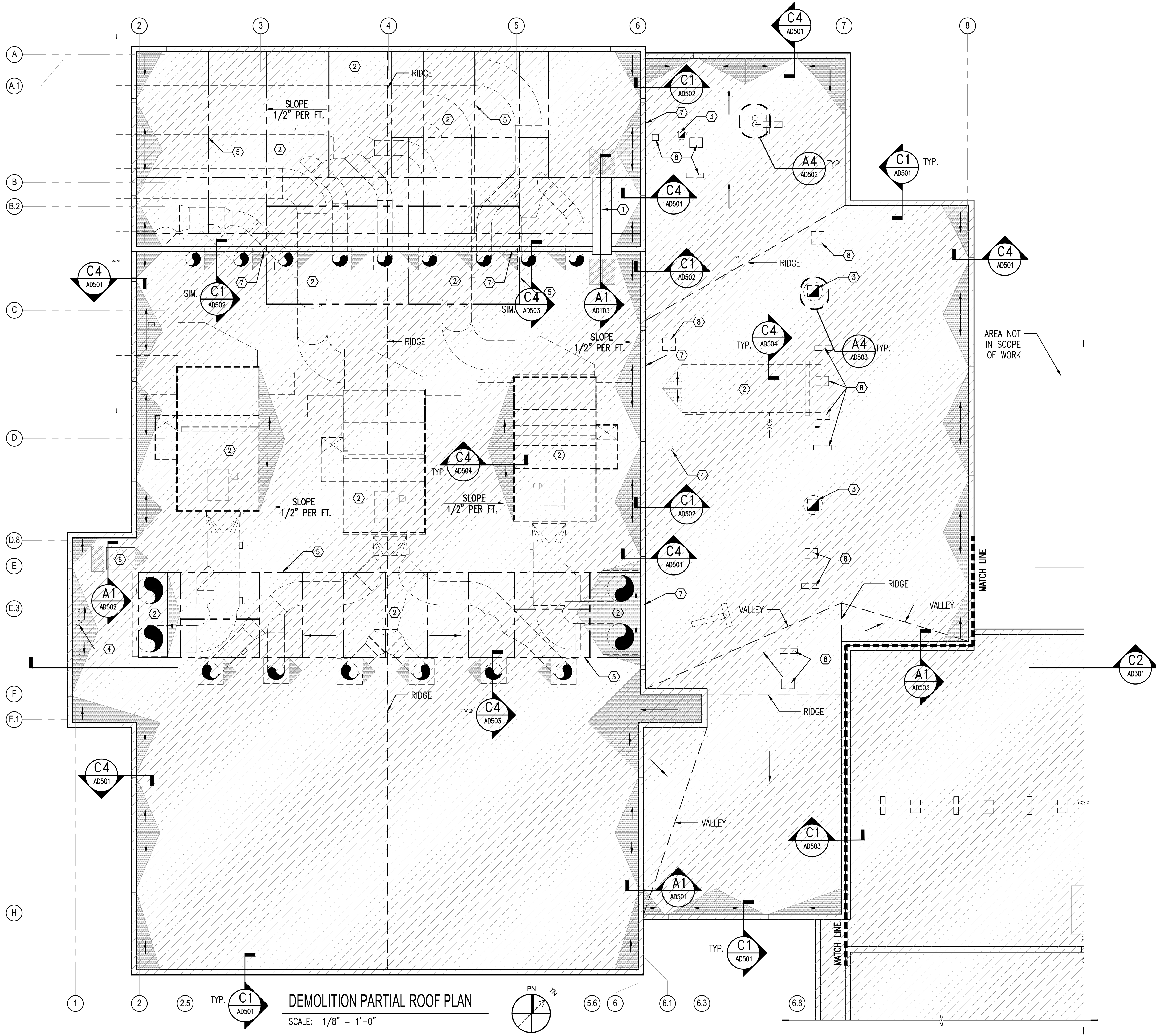
SATISFACTORY TO
DES DRW CHK

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE
BUILDING 4034, FRC-E
DEMOLITION PARTIAL REFLECTIVE CEILING PLAN

SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO. 7375939
NAVFAC DRAWING NO. 12816228
SHEET 17 OF 114
AD105

DRAWN/REVISED: 10 MAY 2014

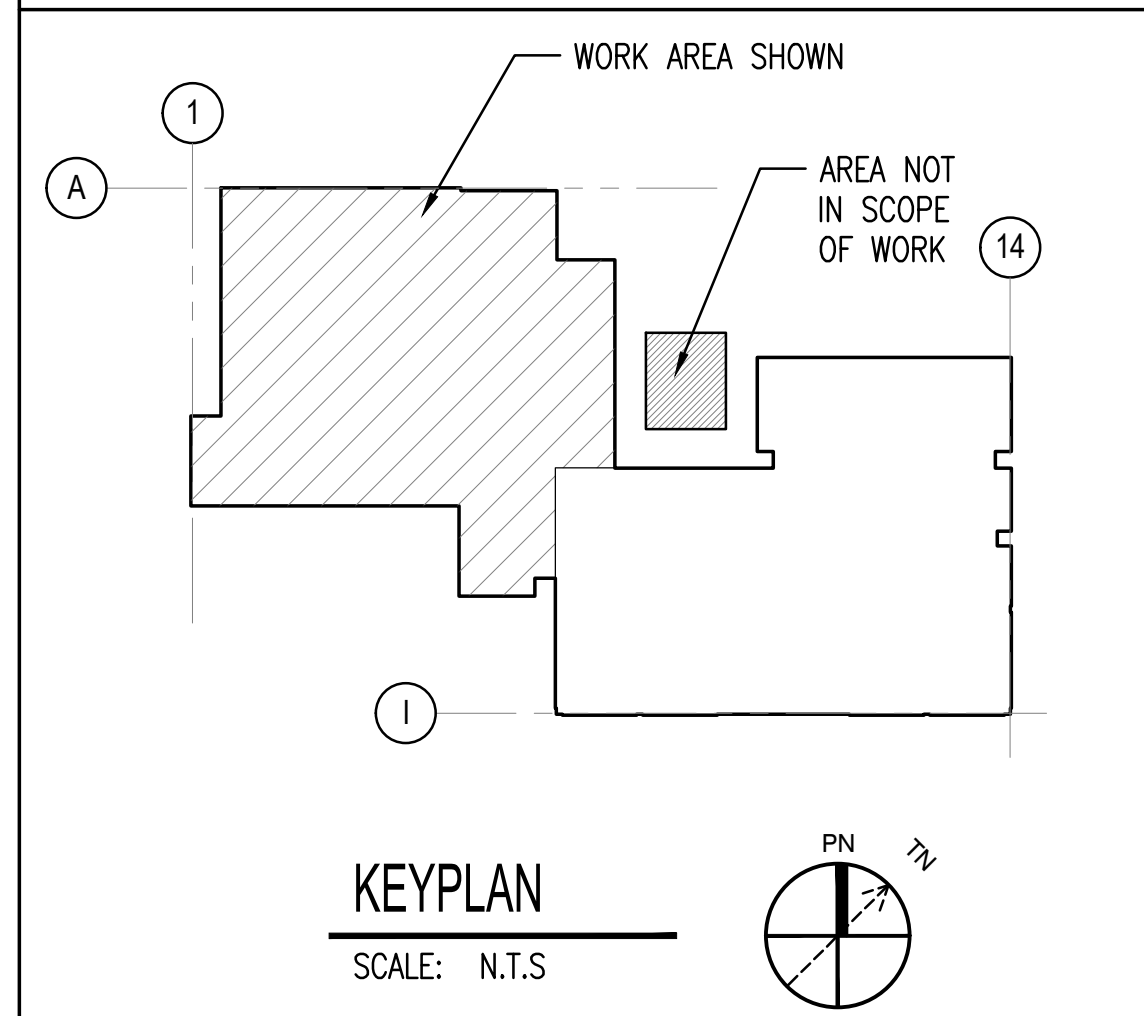
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- ### GENERAL SHEET NOTES
1. CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS BEFORE COMMENCING WORK.
 2. SEE CIVIL, FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES.
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 5. SEE LEAD AND ASBESTOS REPORT BEFORE COMMENCING WORK.

- ### SHEET KEYNOTES
1. CATWALK AND LADDERS TO REMAIN, PROTECT. SEE A1/AD103.
 2. REMOVE MECHANICAL UNITS AND EQUIPMENT, COMPLETE, INCLUDING FLASHING AND CURBS, SEE MECHANICAL.
 3. REMOVE EXHAUSTS, COMPLETE, INCLUDING FLASHINGS AND CURBS, SEE MECHANICAL.
 4. REMOVE VENTS AND PIPE PENETRATIONS, COMPLETE, INCLUDING FLASHINGS. SEE PLUMBING AND MECHANICAL.
 5. STRUCTURAL SUPPORTS UNDER MECHANICAL DUCTS AND CATWALK TO REMAIN. PROTECT.
 6. ROOF ACCESS HATCH TO REMAIN, PROTECT.
 7. REMOVE (3) COURSES BRICK FACE ALONG HIGH ROOF WALL AS INDICATED. PREPARE FOR NEW FLASHING AND WEEPS, SEE C1/AD502.
 8. CUT AND REMOVE STEEL DECKING FOR MECHANICAL OPENING, SEE A1/AD504. SEE MECHANICAL FOR OPENING REQUIREMENTS.

- ### LEGEND
- [Hatched Box] HATCH INDICATES MODIFIED BITUMEN ROOF, INCLUDING RECOVERY BOARD, INSULATION, AND ALL FLASHINGS, REMOVE DOWN TO STEEL DECK AND PREPARE DECKING FOR NEW ROOF SYSTEM.
 - [Solid Box] HATCH INDICATES CRICKET, REMOVE.
 - [Dotted Box] WALKING PADS, REMOVE.



1/8" = 1'-0"

0 4' 8' 16'

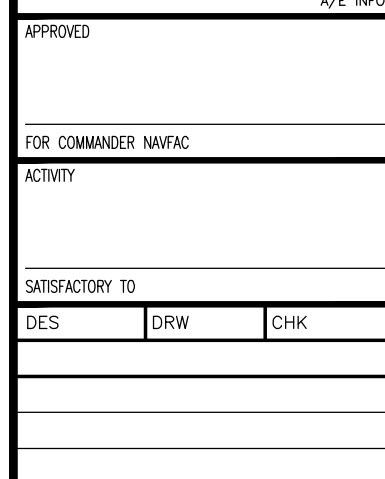
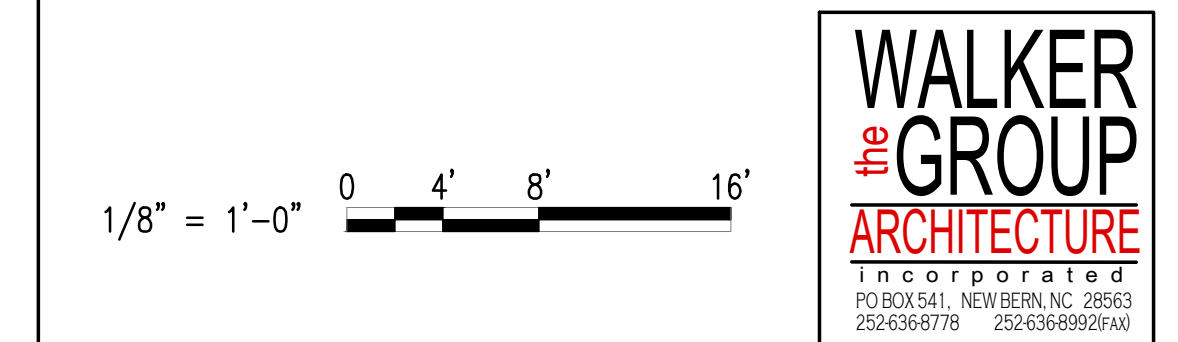
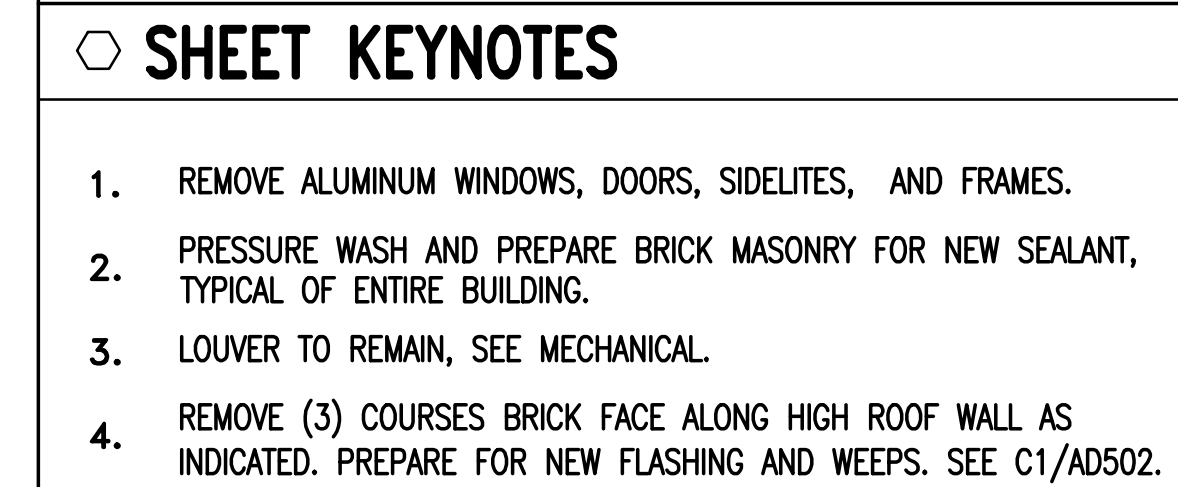
WALKER GROUP
ARCHITECTURE
INCORPORATED
PO BOX 5411, NEW BERN, NC 28563
252-636-6778 252-636-6992(PAX)

APPR	
DATE	
SYN DESCRIPTION	
NRW ENGINEERING Structural Consultants 748 Lord Dunmore Drive, Suite 101 Virginia Beach, VA 23464 Phone 757-474-0612 Fax 757-474-0919	
APPROVED: _____ FOR COMMANDER NAVFAC	
ACTIVITY: _____	
SATISFACTORY TO: _____	
DES: _____ DRW: _____ CHK: _____	
U.S. MARINE CORPS AIR STATION CHERRY POINT, NORTH CAROLINA REPAIR AND UPGRADE BUILDING 4034, FRC-E DEMOLITION PARTIAL ROOF PLAN	
SCALE: AS NOTED	
PROJECT NO.: XK11237	
MAXIMO WORK ORDER NO. 7375939	
NAVFAC DRAWING NO. 12816229	
SHEET 18 OF 114	
AD106	
DRAWN/REVISED: 10 MAY 2014	





A2 **DEMOLITION NORTH ELEVATION**
SCALE: 1/8" = 1'-0" AD102



SCALE: AS NOTED		
PROJECT NO.: XX11237		
MAXIMO WORK ORDER NO. 7375939		
NAVFAC DRAWING NO. 12816232		
SHEET	21	OF 114
AD202		

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS BEFORE COMMENCING WORK.
2. SEE CIVIL, FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES.
3. CONTRACTOR TO PROTECT EXISTING ITEMS TO REMAIN.
4. CONTRACTOR SHALL EITHER PROTECT EXISTING FURNITURE IN PLACE DURING CONSTRUCTION OR CAREFULLY REMOVE, STORE, AND REINSTALL.
5. SEE LEAD AND ASBESTOS REPORT BEFORE COMMENCING WORK.

SHEET KEYNOTES

1. REMOVE ALUMINUM WINDOWS, DOORS, SIDELITES, AND FRAMES.
2. PRESSURE WASH AND PREPARE BRICK MASONRY FOR NEW SEALANT, TYPICAL OF ENTIRE BUILDING.
3. LOUVER TO REMAIN, SEE MECHANICAL.



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Structural Consultants
748 Lord Dunmore Drive, Suite 101
Virginia Beach, VA 23464
Phone 757-474-0612
Fax 757-474-0919

APPROVED

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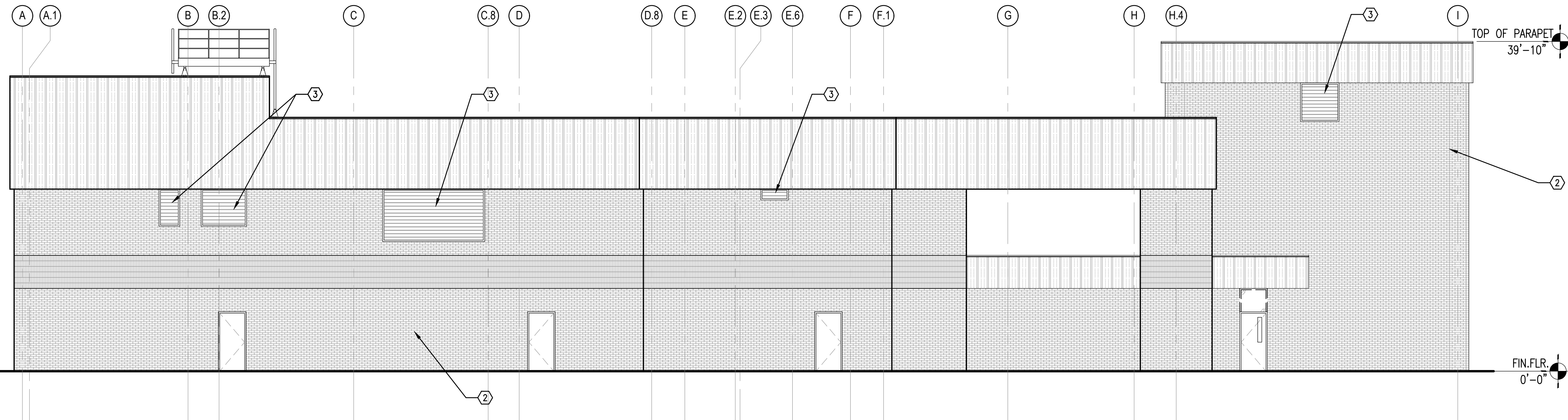
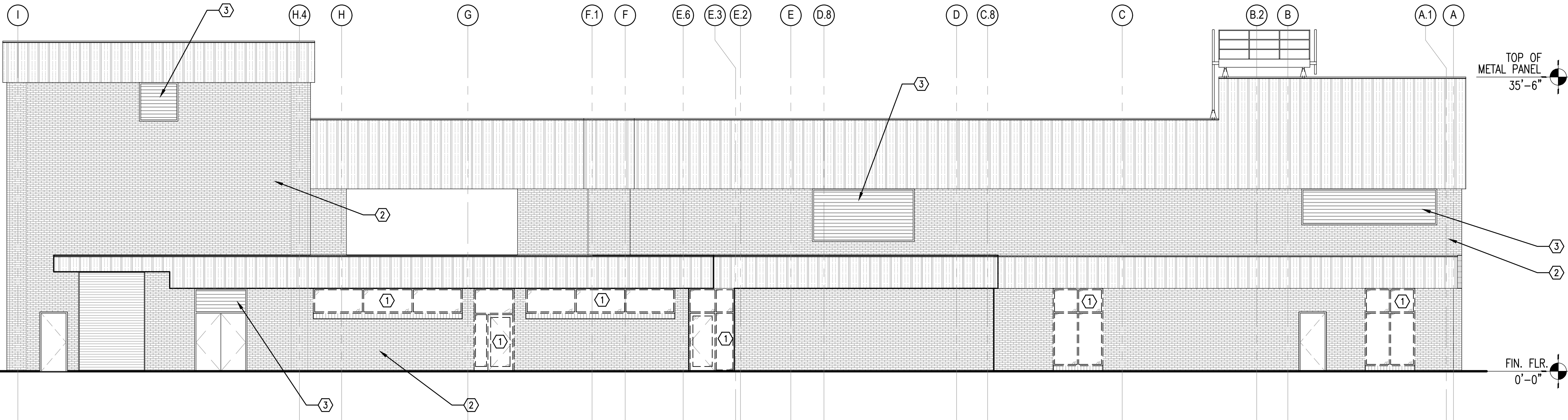
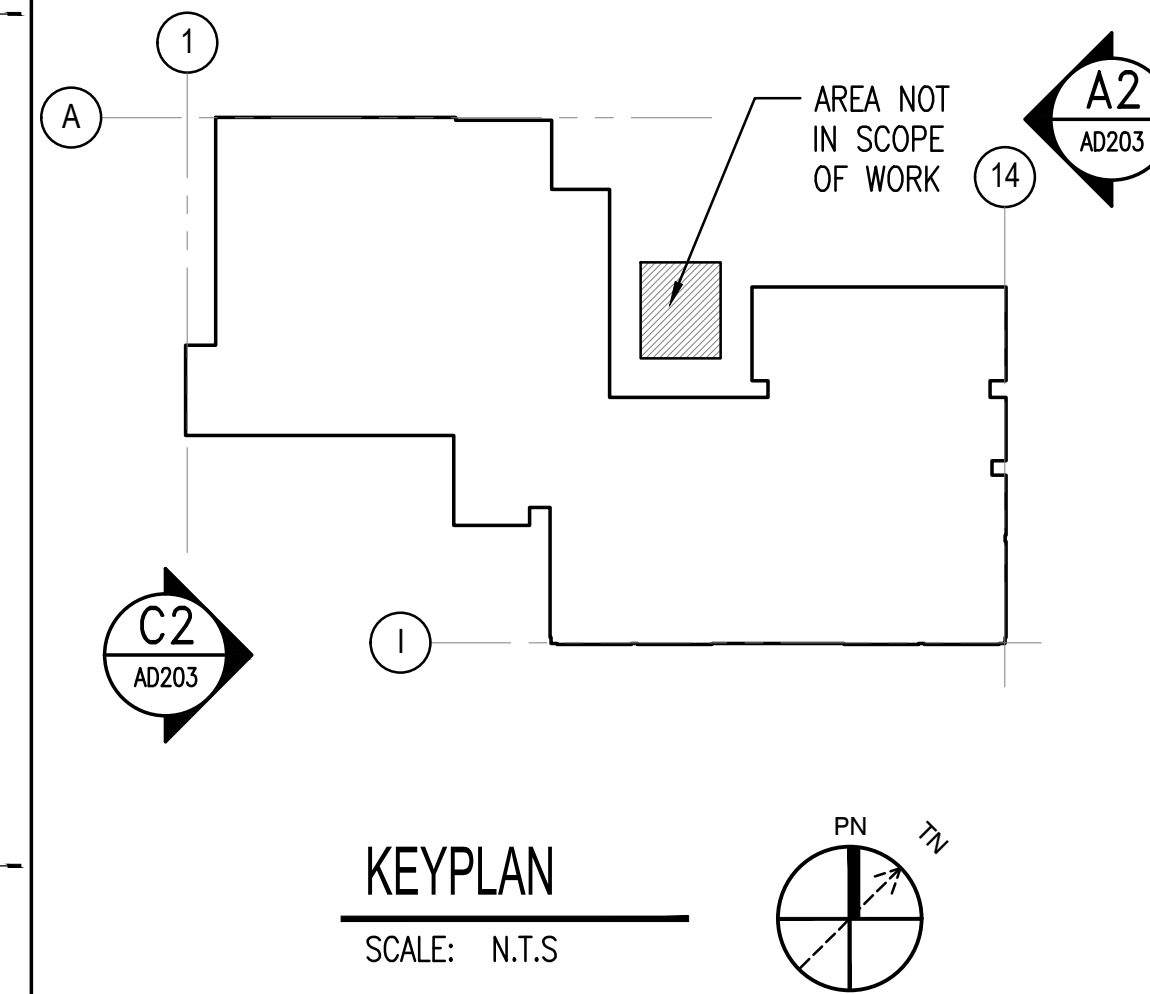
ACTIVITY

SATISFACTORY TO

DES DRW CHK

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE
BUILDING 4034, FRC-E
DEMOLITION EXTERIOR ELEVATIONSSCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO.
7375939
NAVFAC DRAWING NO.
12816233
SHEET 22 OF 114
AD203

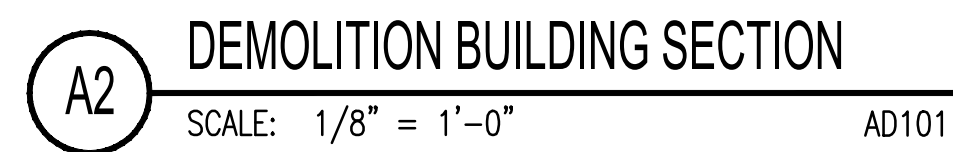
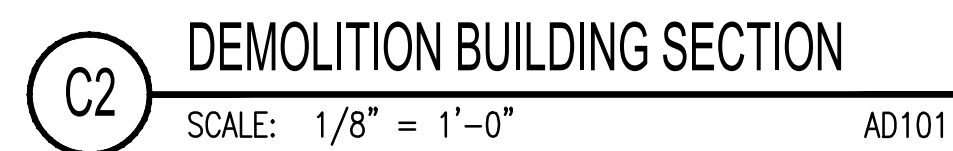
DRAWING REVISION: 10 MAY 2014

C2 DEMOLITION WEST ELEVATION
SCALE: 1/8" = 1'-0" AD101, AD102A2 DEMOLITION EAST ELEVATION
SCALE: 1/8" = 1'-0" AD101, AD102

1/8" = 1'-0" 0 4' 8' 16'



1. REMOVE ALUMINUM WINDOWS, DOORS, SIDELITES, AND FRAMES.
2. REMOVE ACOUSTICAL CEILING TILES, GRID, AND HANGARS.
3. REMOVE MODIFIED BITUMEN ROOF, INCLUDING RECOVERY BOARD, INSULATION, AND ALL FLASHINGS, DOWN TO STEEL DECK.
4. PRESSURE WASH AND PREPARE BRICK MASONRY FOR NEW SEALANT, TYPICAL OF ENTIRE BUILDING.
5. REMOVE (3) COURSES BRICK FACE ALONG HIGH ROOF WALL AS INDICATED. PREPARE FOR NEW FLASHING AND WEEPS.



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252-636-8778 252-636-8992(FAX)

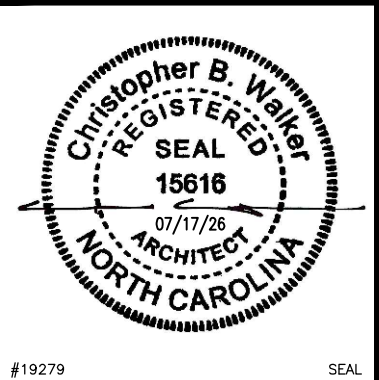
GENERAL SHEET NOTES

- 1. CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS BEFORE COMMENCING WORK.
- 2. SEE CIVIL, FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES.
- 3. CONTRACTOR TO PROTECT EXISTING ITEMS TO REMAIN.
- 4. CONTRACTOR SHALL EITHER PROTECT EXISTING FURNITURE IN PLACE DURING CONSTRUCTION OR CAREFULLY REMOVE, STORE, AND REINSTALL.
- 5. SEE LEAD AND ASBESTOS REPORT BEFORE COMMENCING WORK.

SHEET KEYNOTES

- 1. REMOVE ACOUSTICAL CEILING TILES, GRID, AND HANGARS.
- 2. REMOVE MODIFIED BITUMEN ROOF, INCLUDING RECOVERY BOARD, INSULATION, AND ALL FLASHINGS, DOWN TO STEEL DECK.
- 3. PRESSURE WASH AND PREPARE BRICK MASONRY FOR NEW SEALANT, TYPICAL OF ENTIRE BUILDING.
- 4. REMOVE (3) COURSES BRICK FACE ALONG HIGH ROOF WALL AS INDICATED. PREPARE FOR NEW FLASHING AND WEEPS.
- 5. REMOVE ALUMINUM WINDOWS, DOORS, SIDELITES, AND FRAMES.
- 6. REMOVE METAL LADDER. SEE CONSTRUCTION PLANS.

SYN	DESCRIPTION	DATE	APPR



NRW ENGINEERING
Structural Consultants
748 Lord Dunmore Drive, Suite 101
Virginia Beach, VA 23464
Phone 757-474-0612
Fax 757-474-0919

APPROVED _____

FOR COMMANDER NAVFAC _____

ACTIVITY _____

SATISFACTORY TO _____

BES ☐ DRW ☐ CHK ☐

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE
BUILDING 4034, FRC-E
DEMOLITION BUILDING SECTION

SCALE: **AS NOTED**

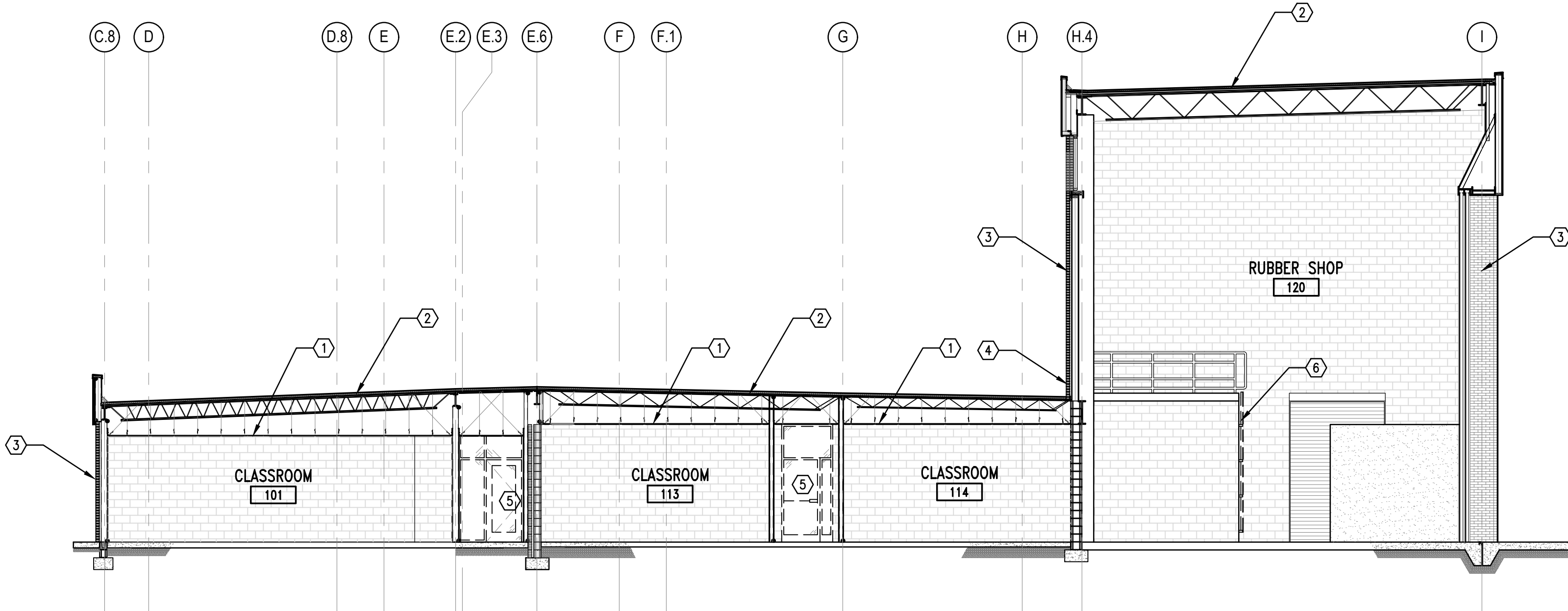
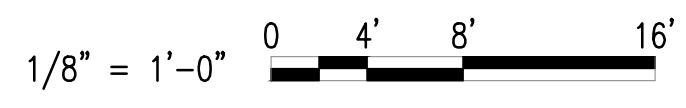
PROJECT NO.: **XK11237**

MAXIMO WORK ORDER NO. **7375939**

NAVFAC DRAWING NO. **12816235**

SHEET **24** OF **114**

AD302



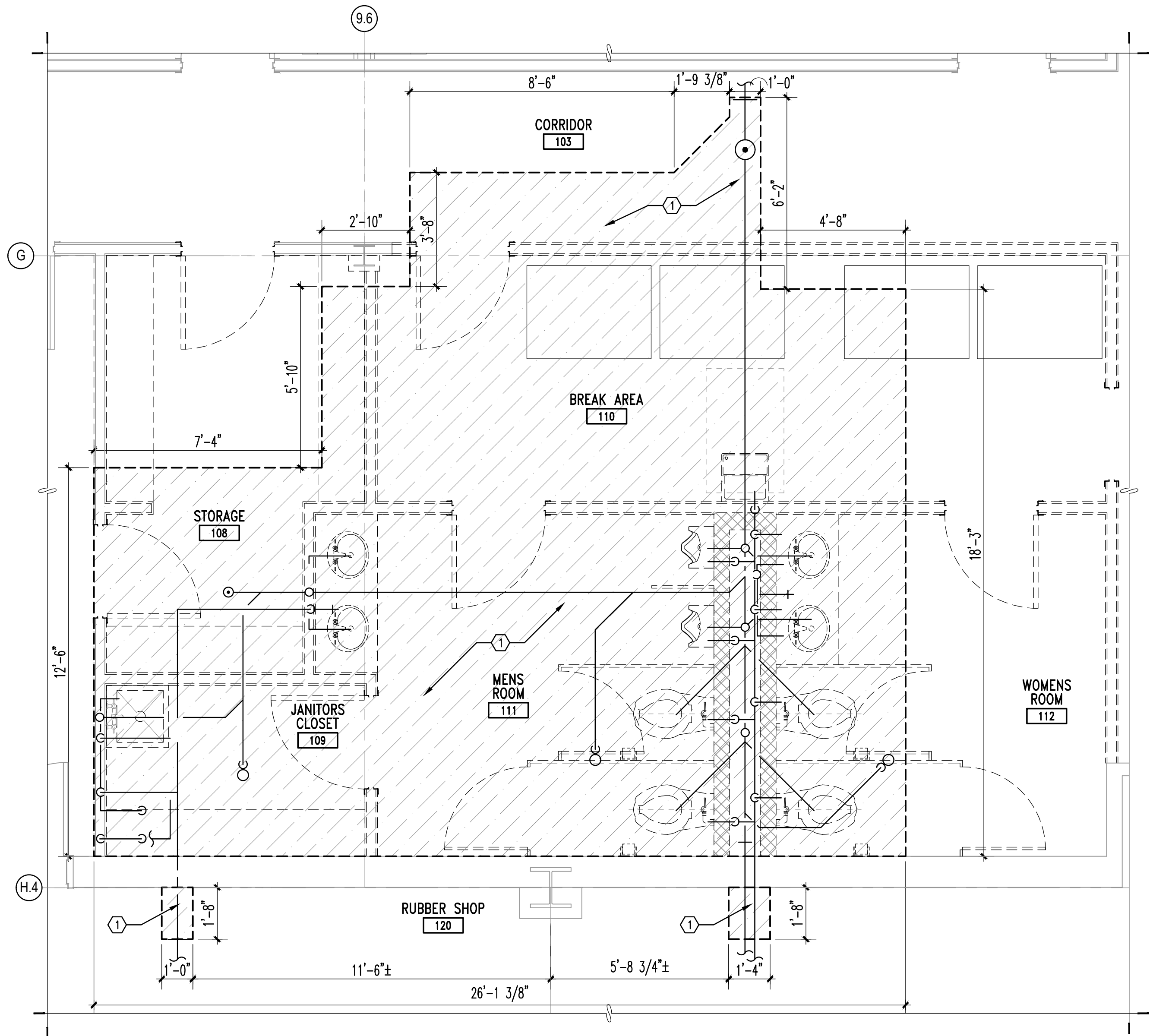
C2 DEMOLITION BUILDING SECTION
SCALE: 1/8" = 1'-0" AD102

D

C

B

A



B3 SLAB REPLACEMENT PLAN
SCALE: 3/8" = 1'-0"

AD102

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS BEFORE COMMENCING WORK.
2. SEE CIVIL, FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES.
3. CONTRACTOR TO PROTECT EXISTING ITEMS TO REMAIN.

SHEET KEYNOTES

1. SAW CUT AND REMOVE CONCRETE SLAB AS INDICATED. REMOVE EXISTING PLUMBING. PREPARE FOR NEW PLUMBING AND SLAB, SEE PLUMBING. SEE STRUCTURAL

LEGEND

- SLAB TO BE REMOVED, SEE PLUMBING.
- PLUMBING TO BE REMOVED, SEE PLUMBING.

3/8" = 1'-0"



SYN	DESCRIPTION	DATE	APPR



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Structural Consultants
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Virginia Beach, VA 23464
Phone 757-474-0612
Fax 757-474-0919

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ACTIVITY
SATISFACTORY TO
DES DRW CHK

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE
BUILDING 4034, FRC-E
DEMOLITION SLAB REMOVAL PLAN

SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO. 7375939
NAVFAC DRAWING NO. 12816238
SHEET 27 OF 114
AD403

DRAWN/REVISED: 10 MAY 2014

1

2

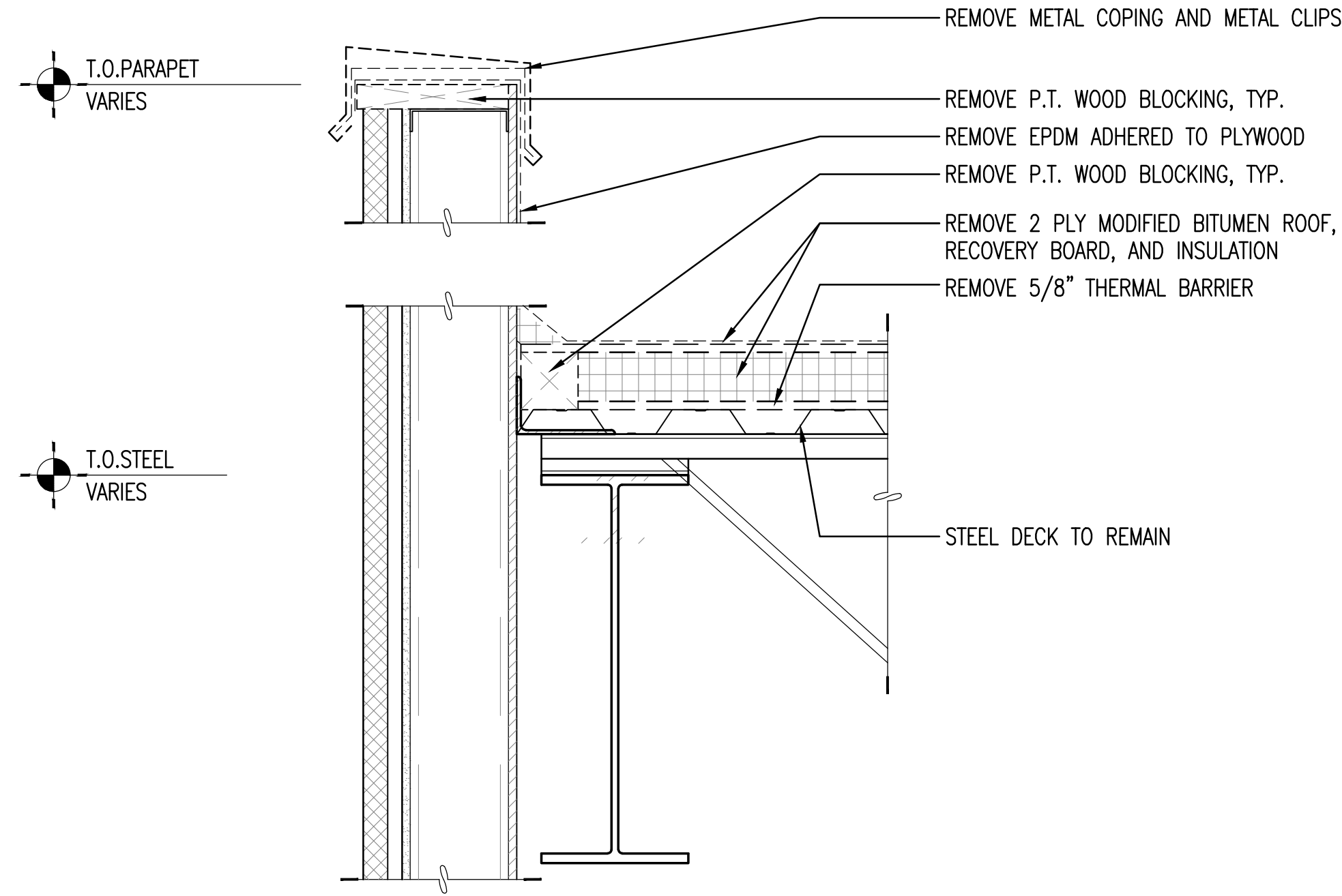
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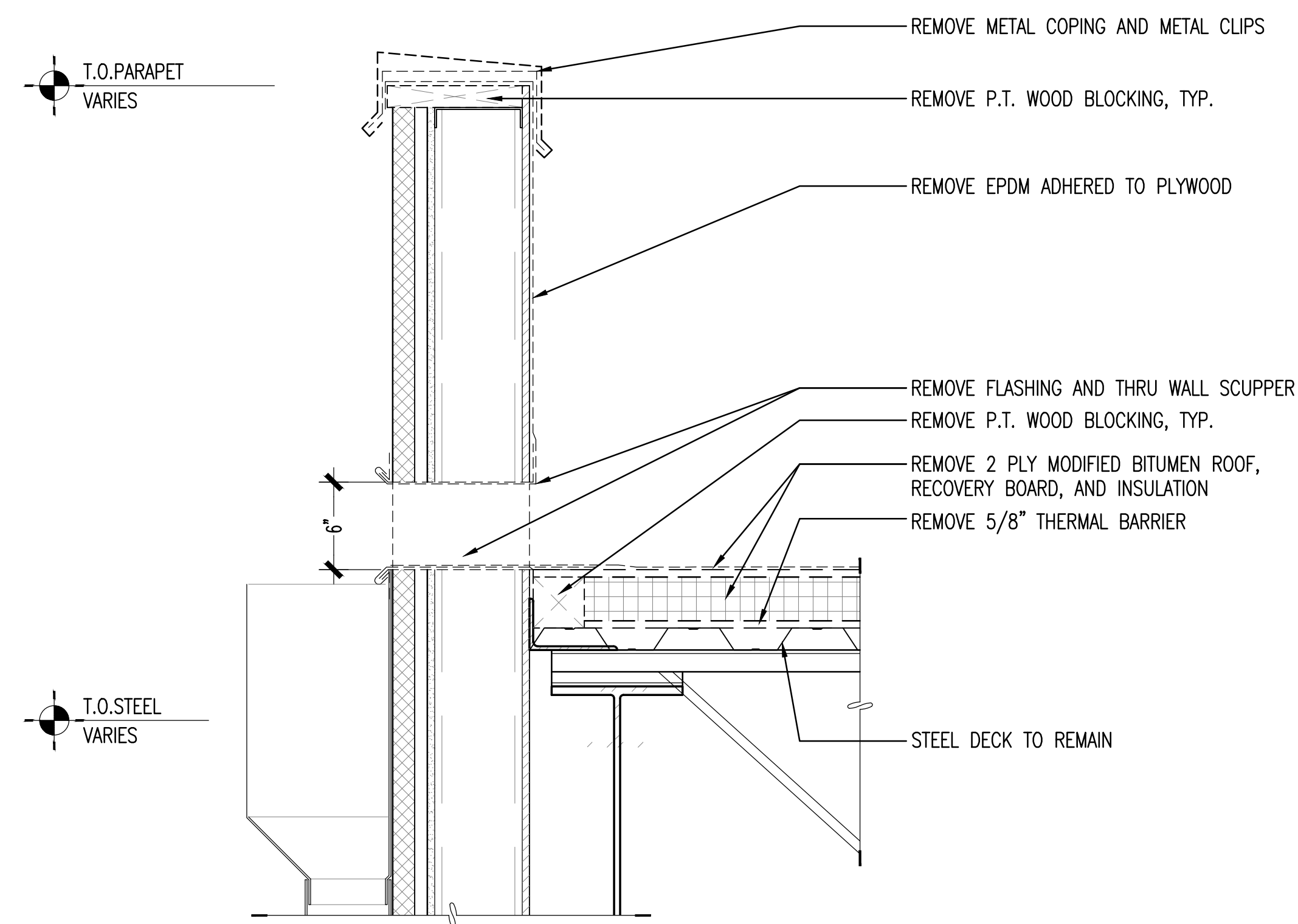
5 UNCLASSIFIED//FOR OFFICIAL USE ONLY

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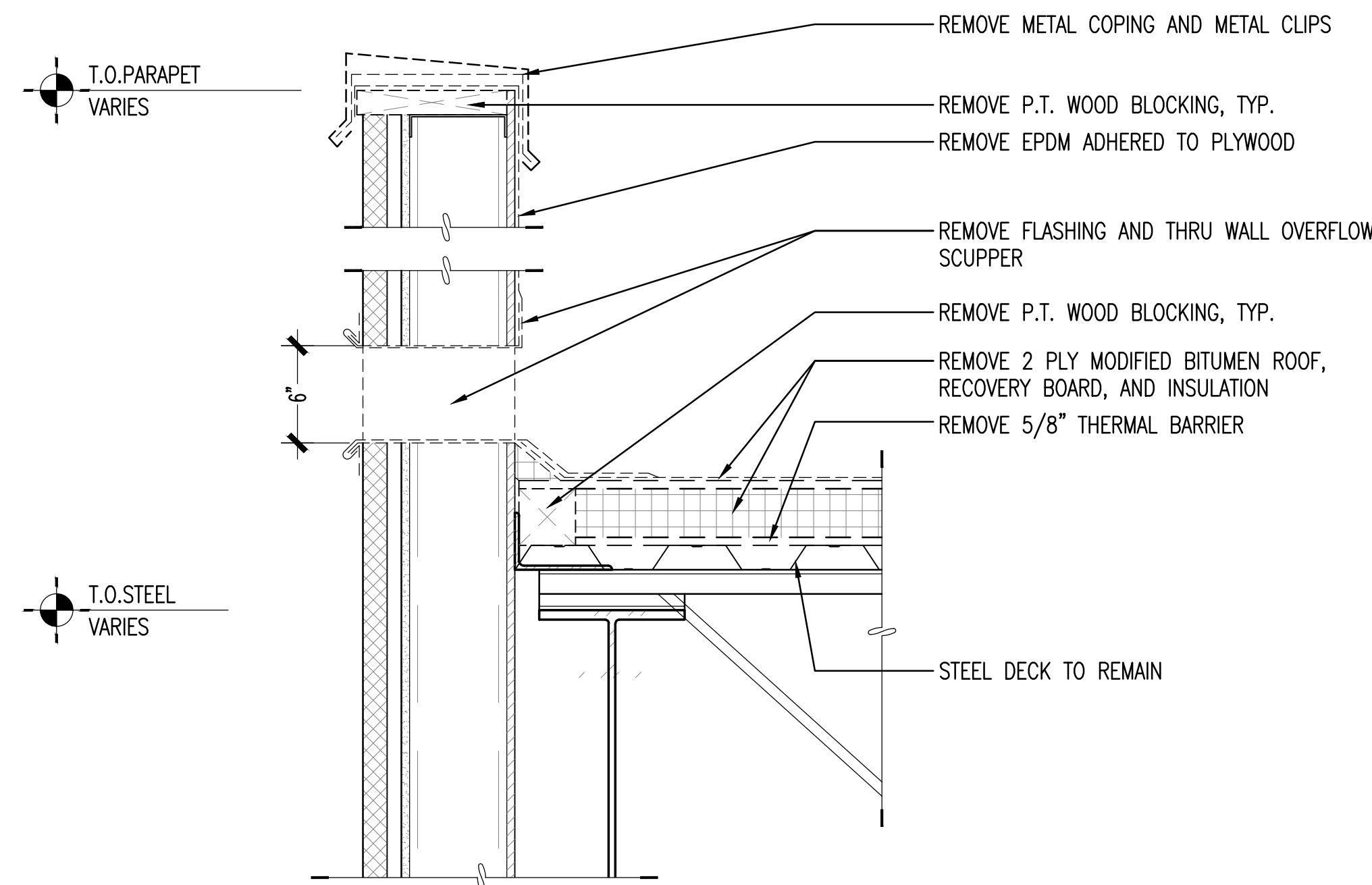
C1 DEMOLITION ROOF DETAIL
SCALE: 1-1/2" = 1'-0" AD106, AD107



C4 DEMOLITION ROOF DETAIL
SCALE: 1-1/2" = 1'-0" AD106

B

A

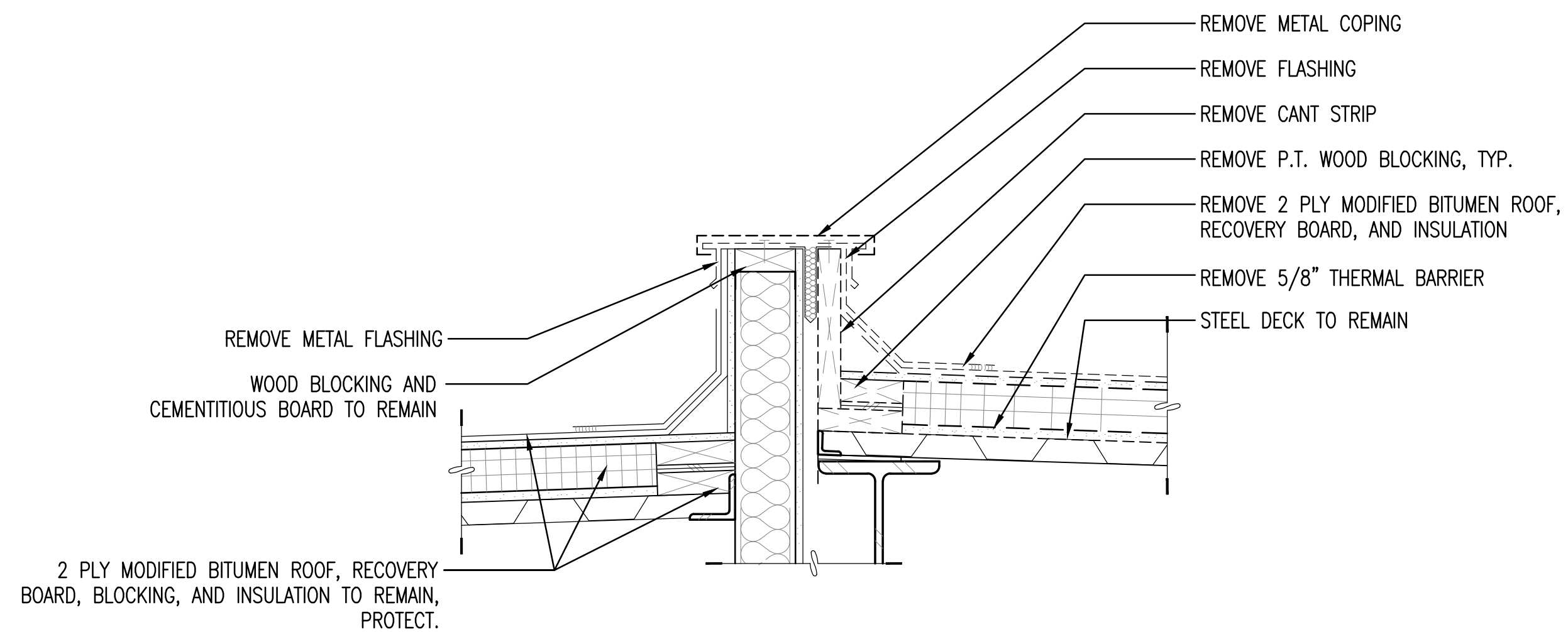


A1 DEMOLITION ROOF DETAIL
SCALE: 1-1/2" = 1'-0" AD106

3

4

5 UNCLASSIFIED//FOR OFFICIAL USE ONLY

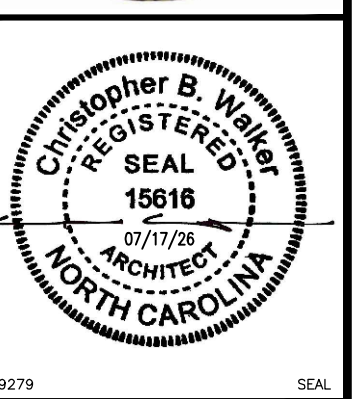


A4 DEMOLITION ROOF DETAIL
SCALE: 1-1/2" = 1'-0" AD107

1 1/2" = 1'-0" 0 4" 8" 1'-4"



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Virginia Beach, VA 23464
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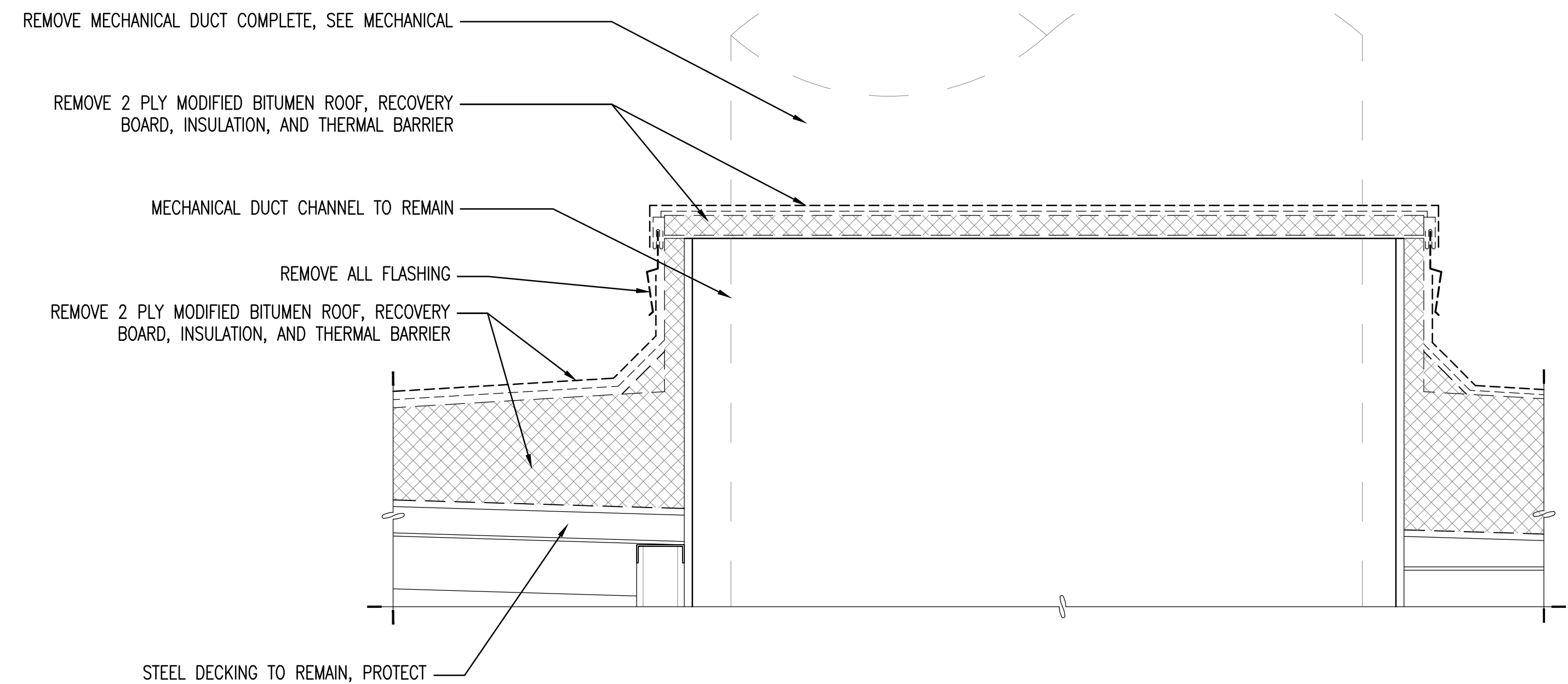
APPROVED

FOR COMMANDER NAVFAC

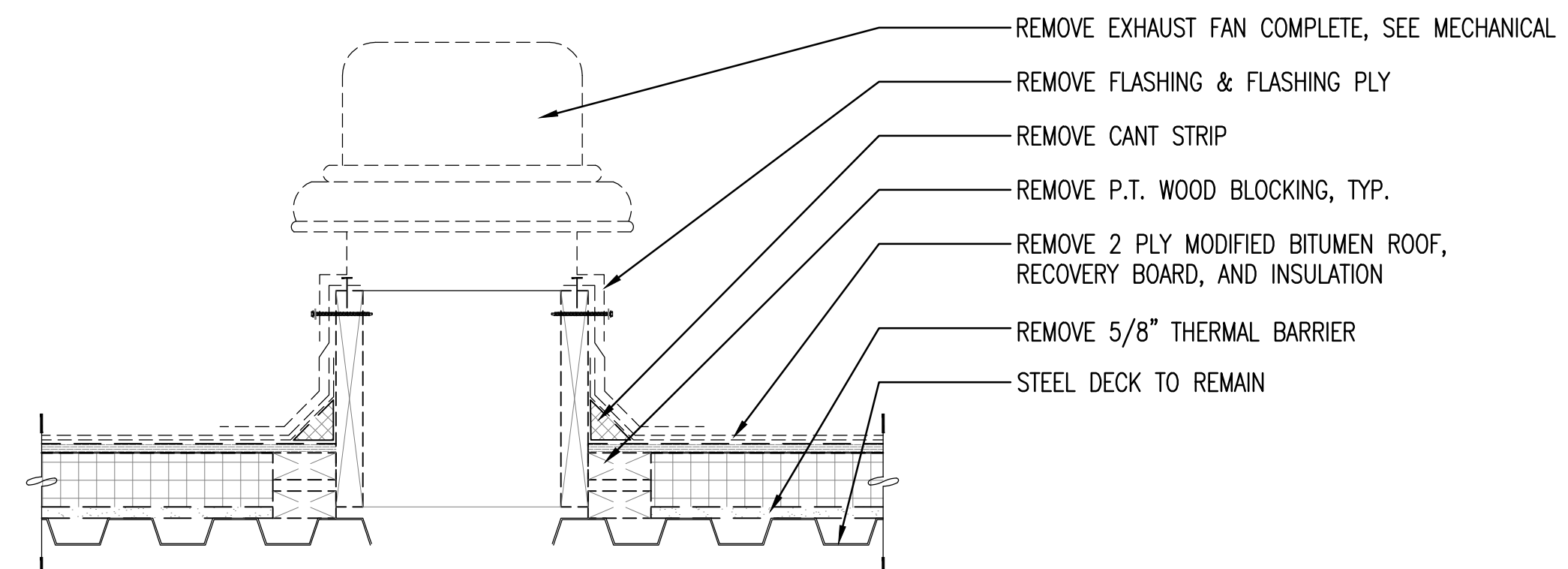
ACTIVITY

SATISFACTORY TO

DES DRW CHK



C4 DEMOLITION ROOF DETAIL
SCALE: 1-1/2" = 1'-0" AD106



A4 DEMOLITION ROOF DETAIL
SCALE: 1-1/2" = 1'-0" AD106, AD107



1

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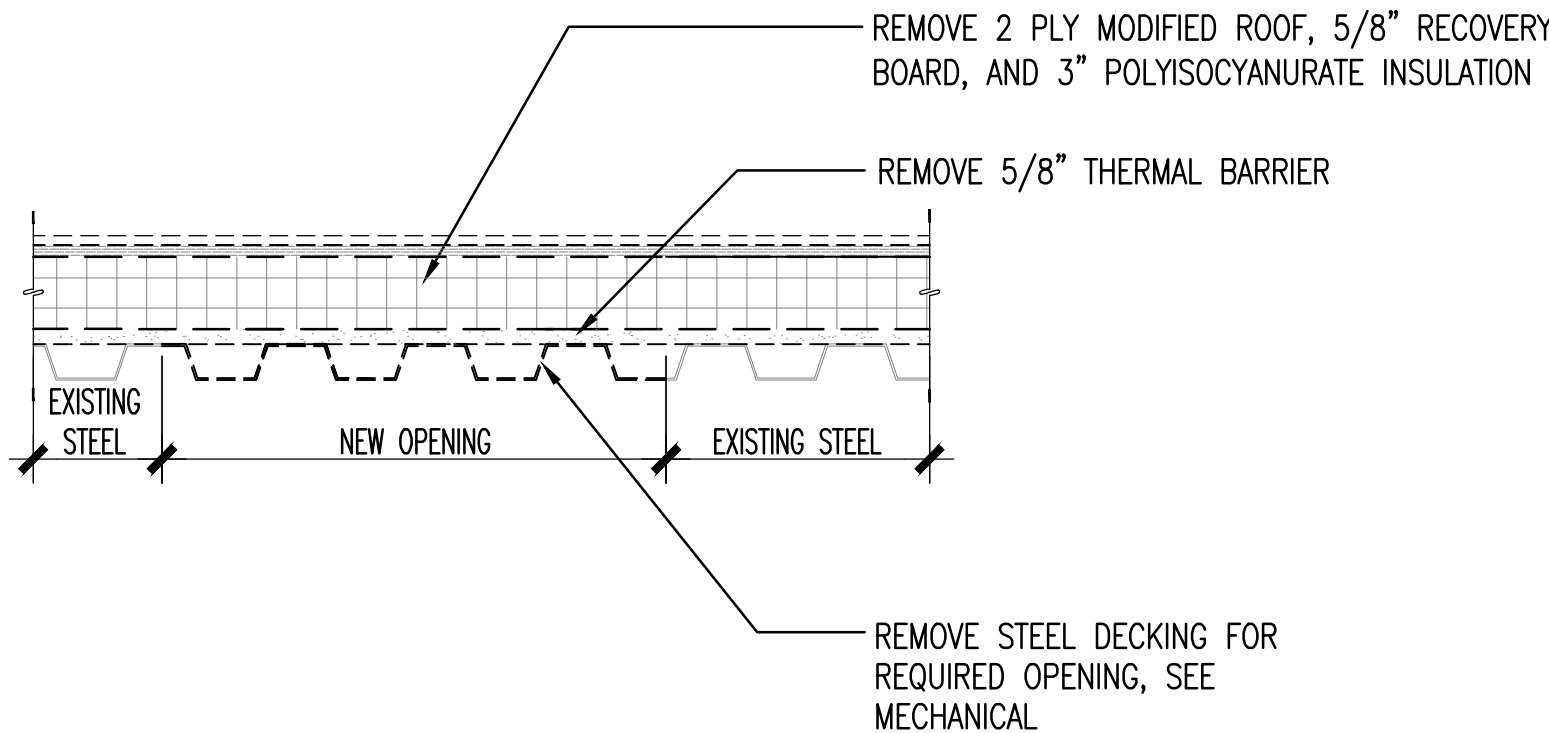
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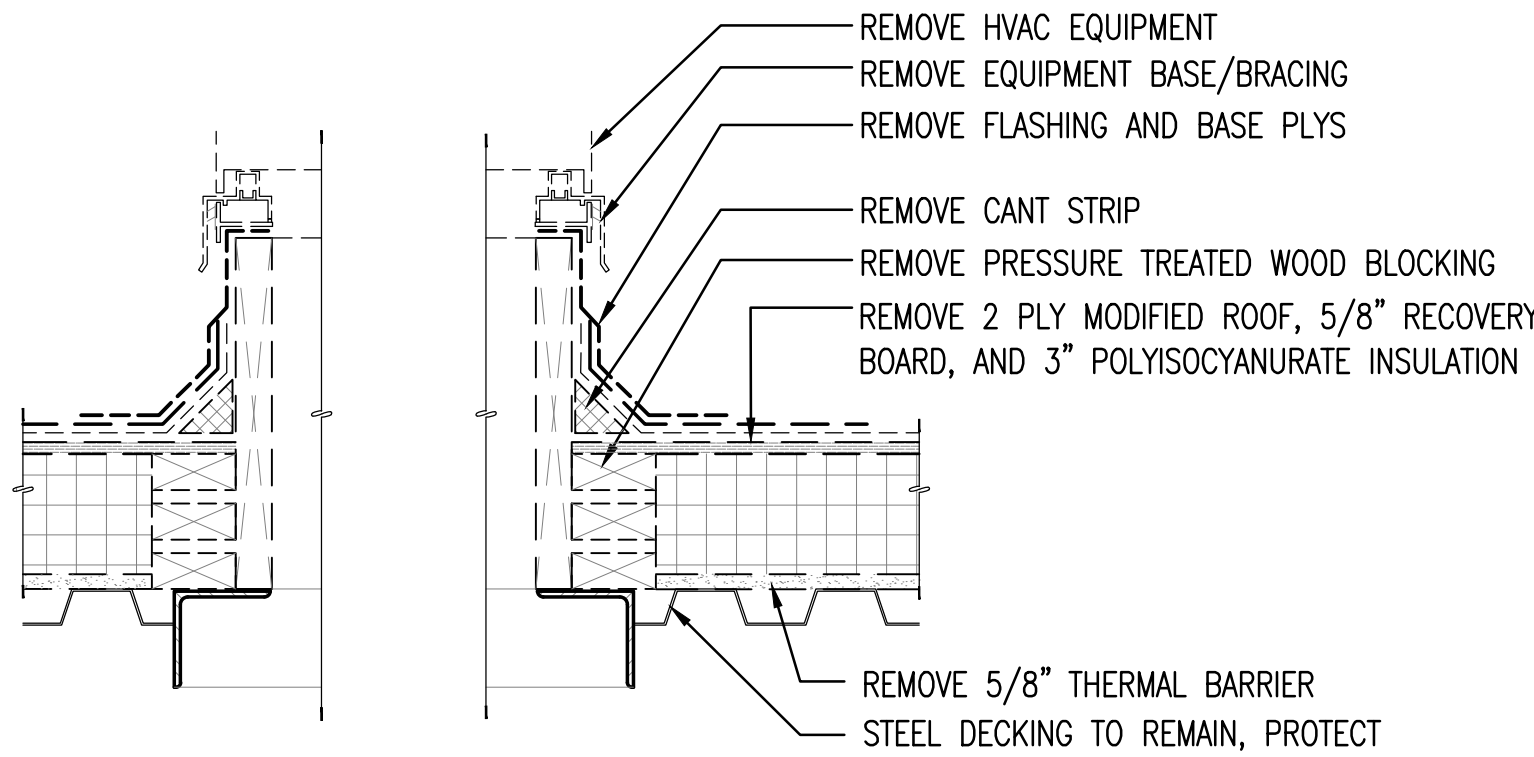
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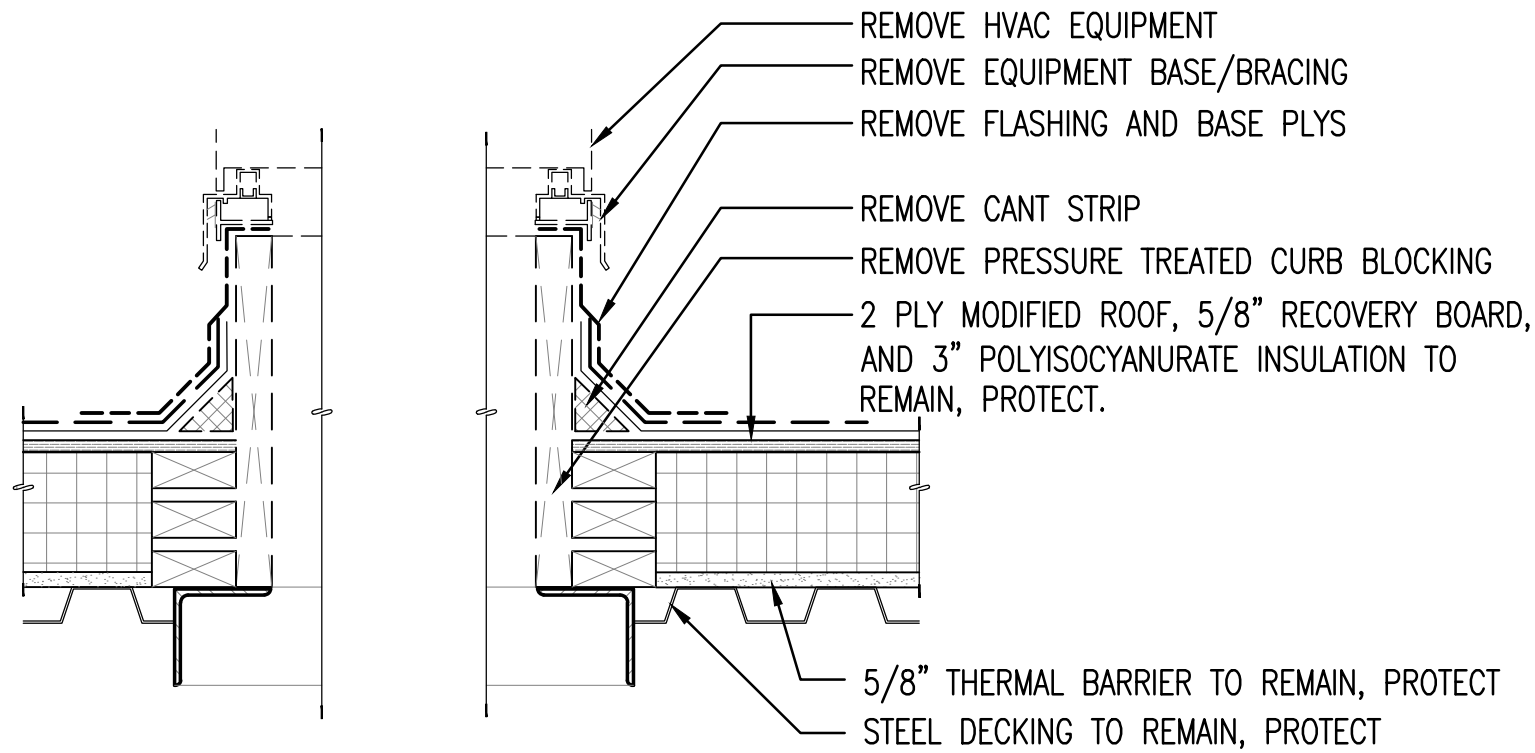
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A1 DEMOLITION ROOF DETAIL
SCALE: 1-1/2" = 1'-0" AD106, AD107



C4 DEMOLITION ROOF DETAIL
SCALE: 1-1/2" = 1'-0" AD106, AD107

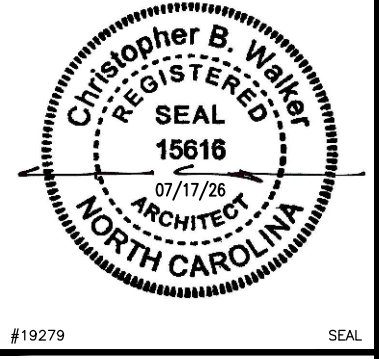


A4 DEMOLITION ROOF DETAIL
SCALE: 1-1/2" = 1'-0" AD107

1 1/2" = 1'-0" 0 4" 8" 1'-4"



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Virginia Beach, VA 23464
Phone 757-474-0612
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A/E INFO

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FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO

BES DRW CHK

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE
BUILDING 4034, FRC-E
DEMOLITION DETAILS

SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO. 7375939
NAVFAC DRAWING NO. 12816242
SHEET 31 OF 114
AD504

DRAWING REVISION: 10 MAY 2014

1

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D

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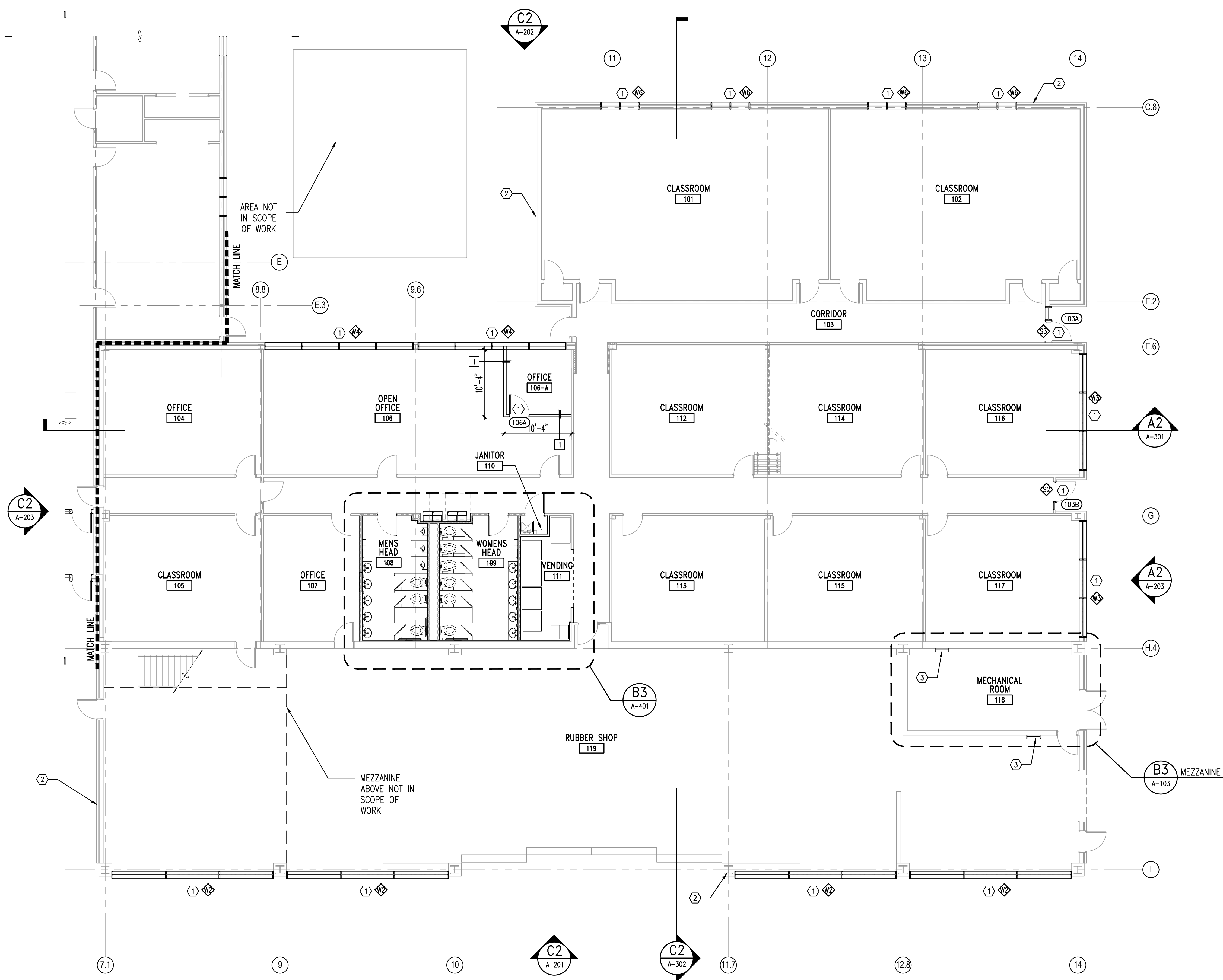
A

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A



GENERAL SHEET NOTES

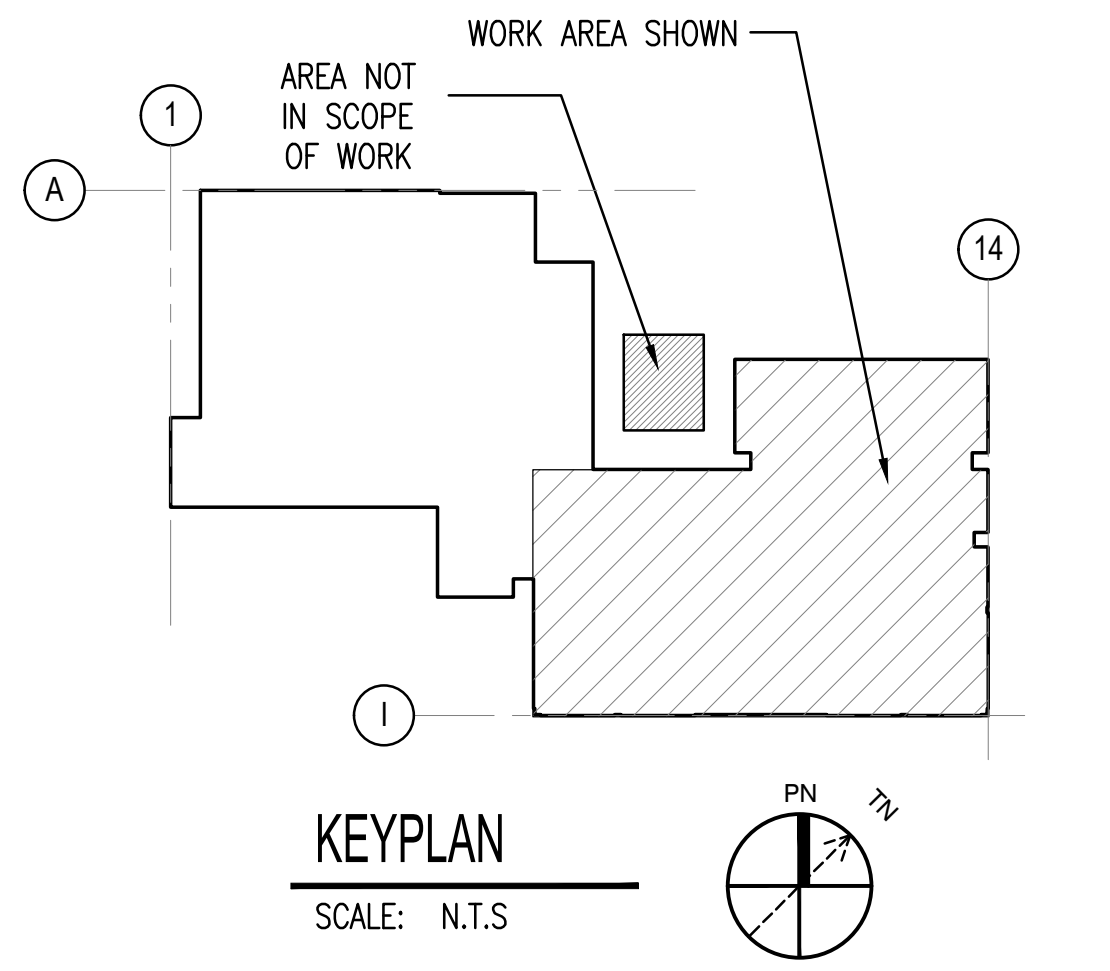
- 1. CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS BEFORE COMMENCING WORK.
- 2. SEE CIVIL, FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES.
- 3. CONTRACTOR TO PROTECT EXISTING ITEMS TO REMAIN.
- 4. SEE FINISH SCHEDULE FOR FLOOR, WALL, AND DOOR FINISHES.

SHEET KEYNOTES

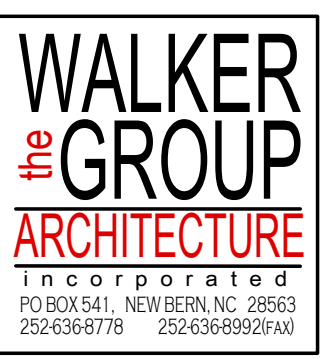
- 1. PROVIDE ALUMINUM WINDOWS, DOORS, SIDELITES, AND FRAMES, SEE DOOR AND WINDOW SCHEDULES.
- 2. PROVIDE WATER SEALANT, TYPICAL OF ENTIRE BUILDING. PROTECT NON-MASONRY MATERIALS.
- 3. PROVIDE BUILDING LADDER, SEE MEZZANINE PLANS SHEET A-103.

LEGEND

1- 3-5/8" 24GA METAL STUDS AT 16" O.C. WITH 5/8" GYPSUM BOARD ON EACH SIDE. FULL HEIGHT TO BOTTOM OF DECK. APPROXIMATELY 12'-4"H.



1/8" = 1'-0" 0 4' 8' 16'



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SYN	DESCRIPTION
NRW ENGINEERING Structural Consultants 748 Lord Dunmore Drive, Suite 101 Virginia Beach, VA 23464 Phone 757-474-0612 Fax 757-474-0919	
APPROVED	A/E INFO
FOR COMMANDER NAVFAC	ACTIVITY
SATISFACTORY TO	DES DRW CHK
U.S. MARINE CORPS AIR STATION CHERRY POINT, NORTH CAROLINA REPAIR AND UPGRADE BUILDING 4034, FRC-E CONSTRUCTION PARTIAL FLOOR PLAN	
SCALE: AS NOTED	PROJECT NO.: XK11237
MAXIMO WORK ORDER NO.	7375939
NAVFAC DRAWING NO.	12816244
SHEET	33 OF 114
A-102	
DRAWN/REVISED: 10 MAY 2014	

CONSTRUCTION PARTIAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

NOTE:
CONTRACTOR SHALL PROVIDE TEMPORARY COVERINGS OVER WINDOW OPENINGS DURING REPLACEMENT IN ORDER TO MAINTAIN TEMPORARY HVAC CONDITIONS.

D

C

B

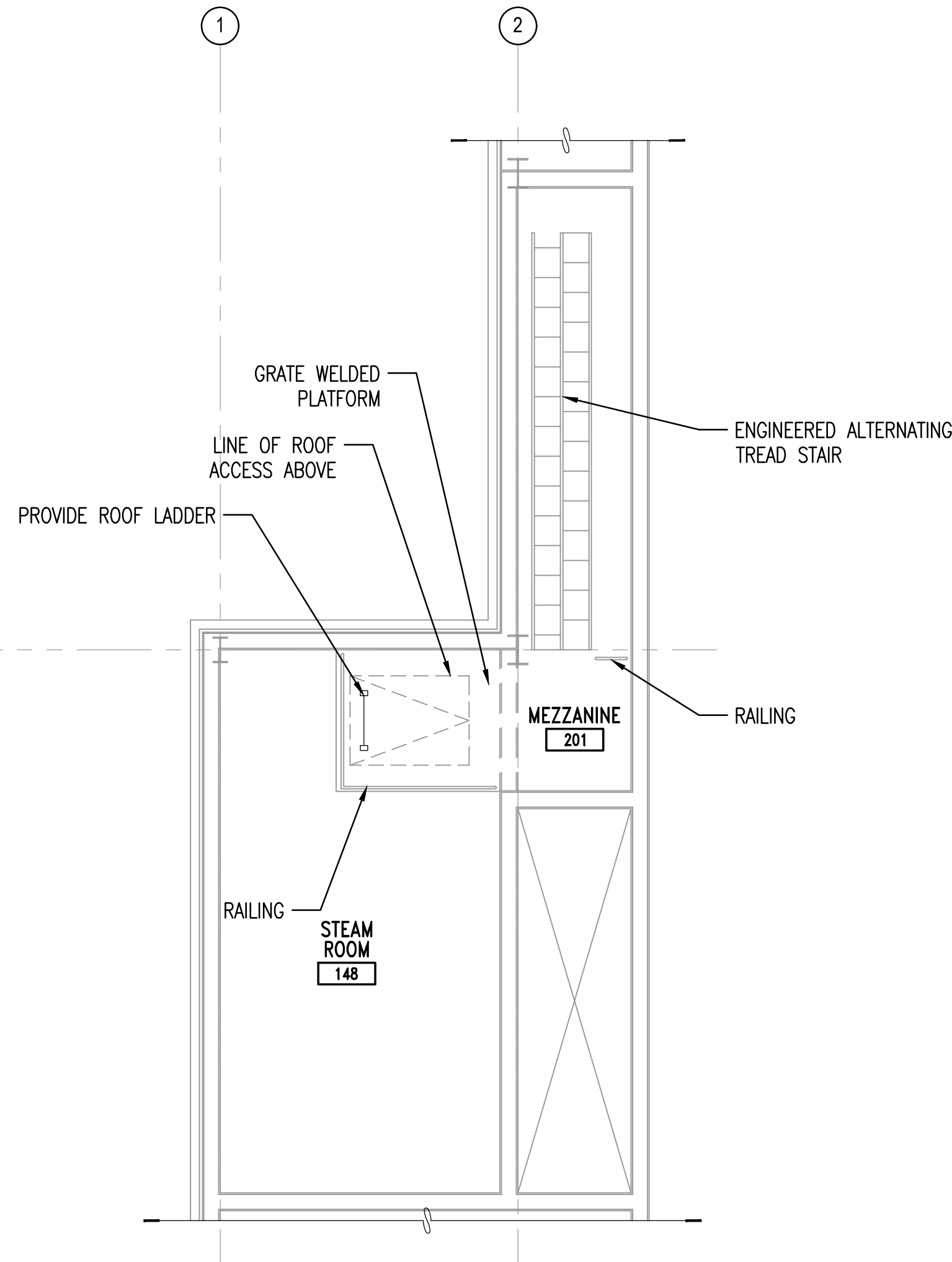
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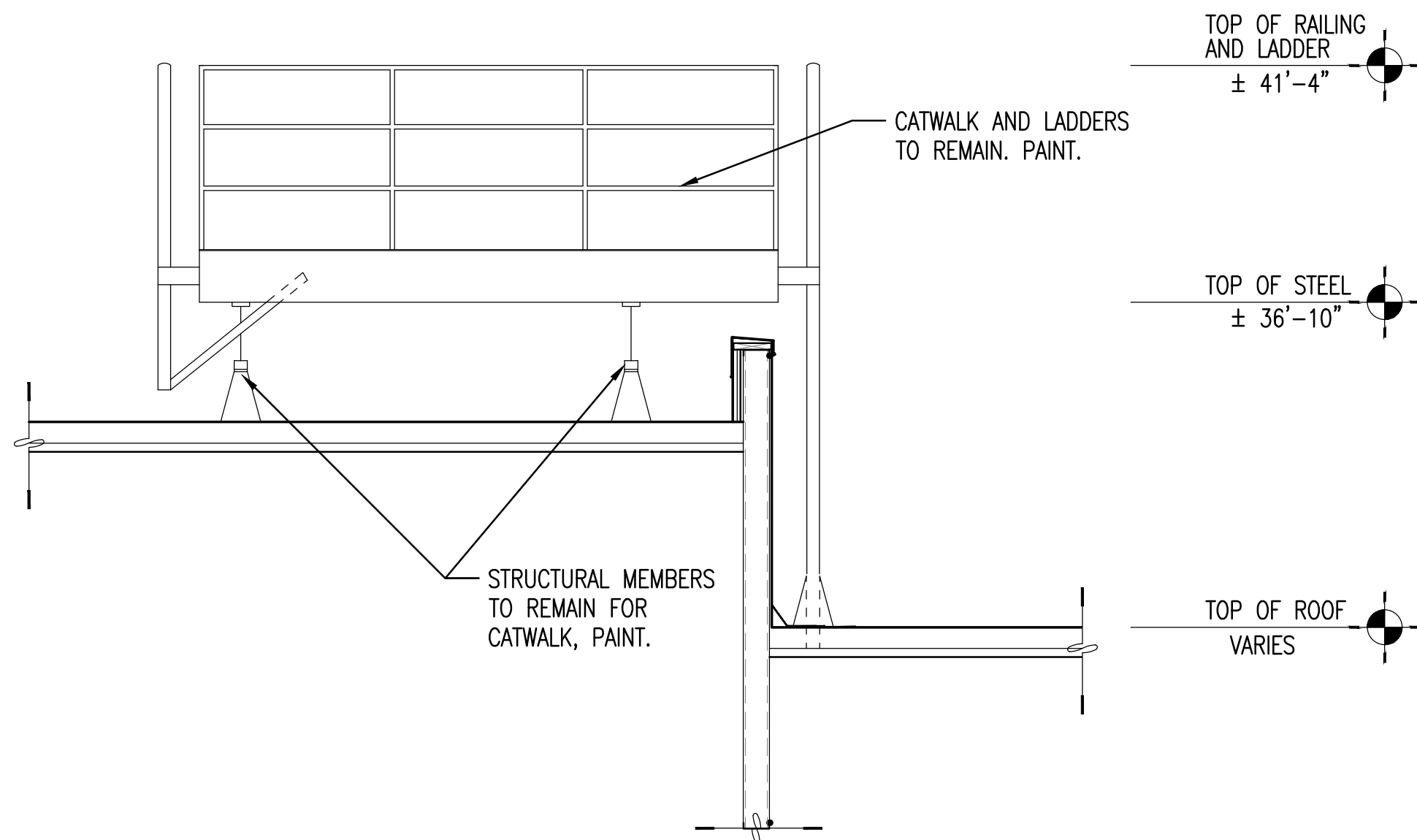
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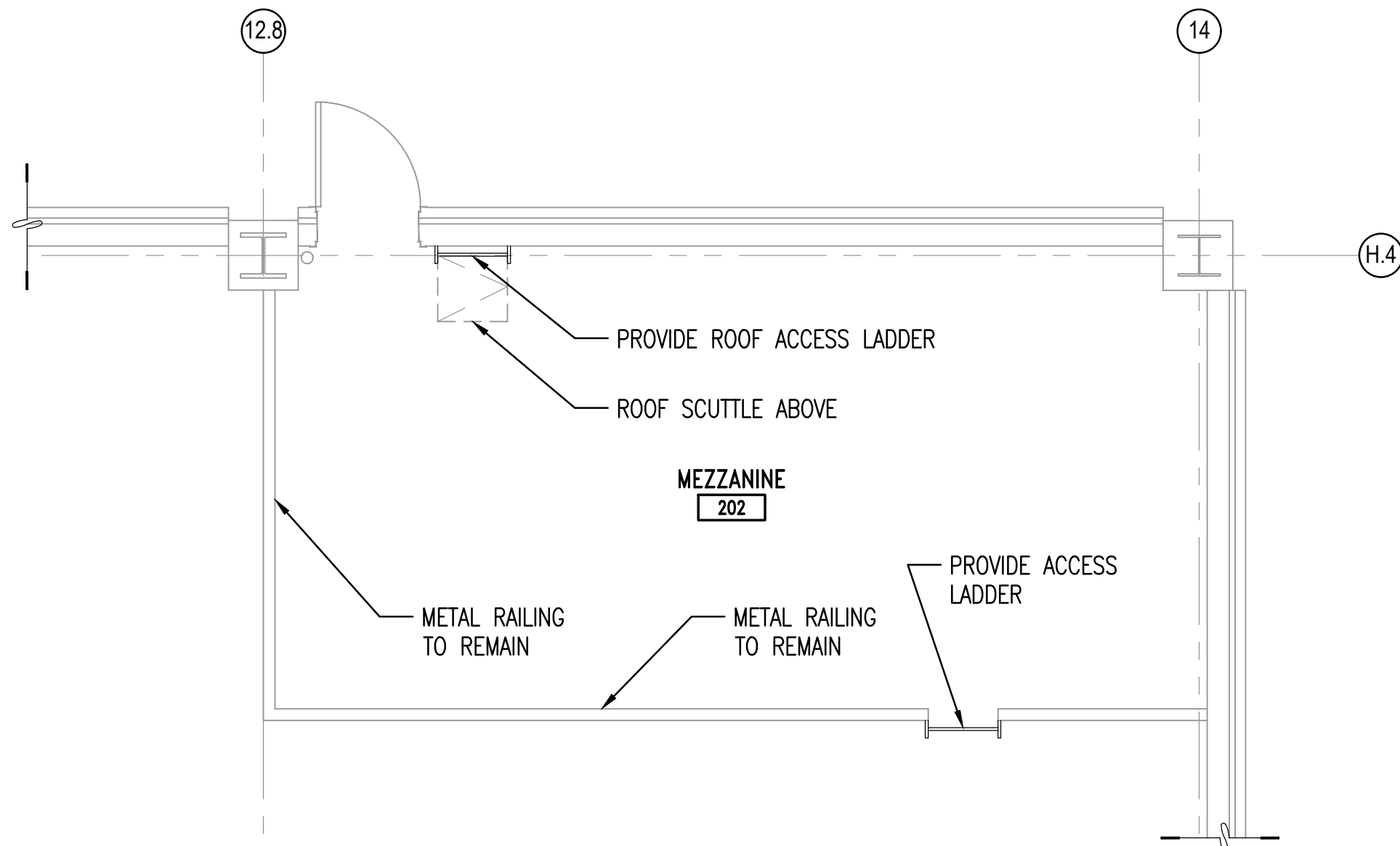
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B1 PLASTIC MEDIA BLASTING FACILITY CONSTRUCTION MEZZANINE FLOOR PLAN
SCALE: 1/4" = 1'-0" A-101



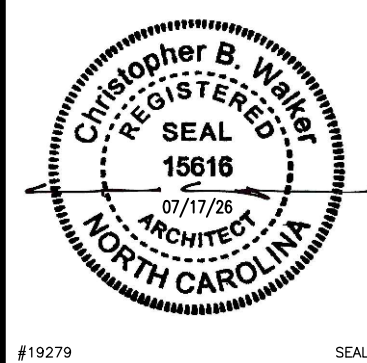
A1 PLASTIC MEDIA BLASTING FACILITY CONSTRUCTION CATWALK ELEVATION
SCALE: 3/8" = 1'-0" A-106



B3 MEZZANINE CONSTRUCTION FLOOR PLAN
SCALE: 1/4" = 1'-0" A-102

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS BEFORE COMMENCING WORK.
2. SEE CIVIL, FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES.
3. CONTRACTOR TO PROTECT EXISTING ITEMS TO REMAIN.



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Fax 757-474-0919

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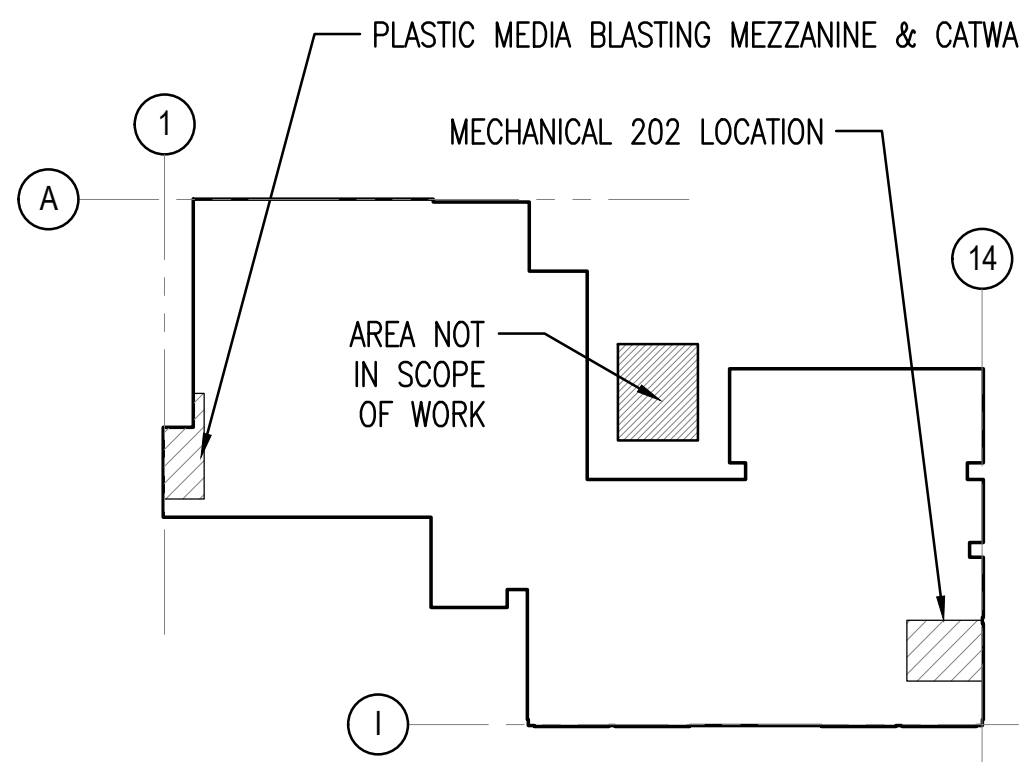
FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO

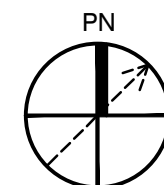
BES DRW CHK

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE
BUILDING 4034, FRC-E
CONSTRUCTION MEZZANINE FLOOR PLANS



KEYPLAN

SCALE: N.T.S.

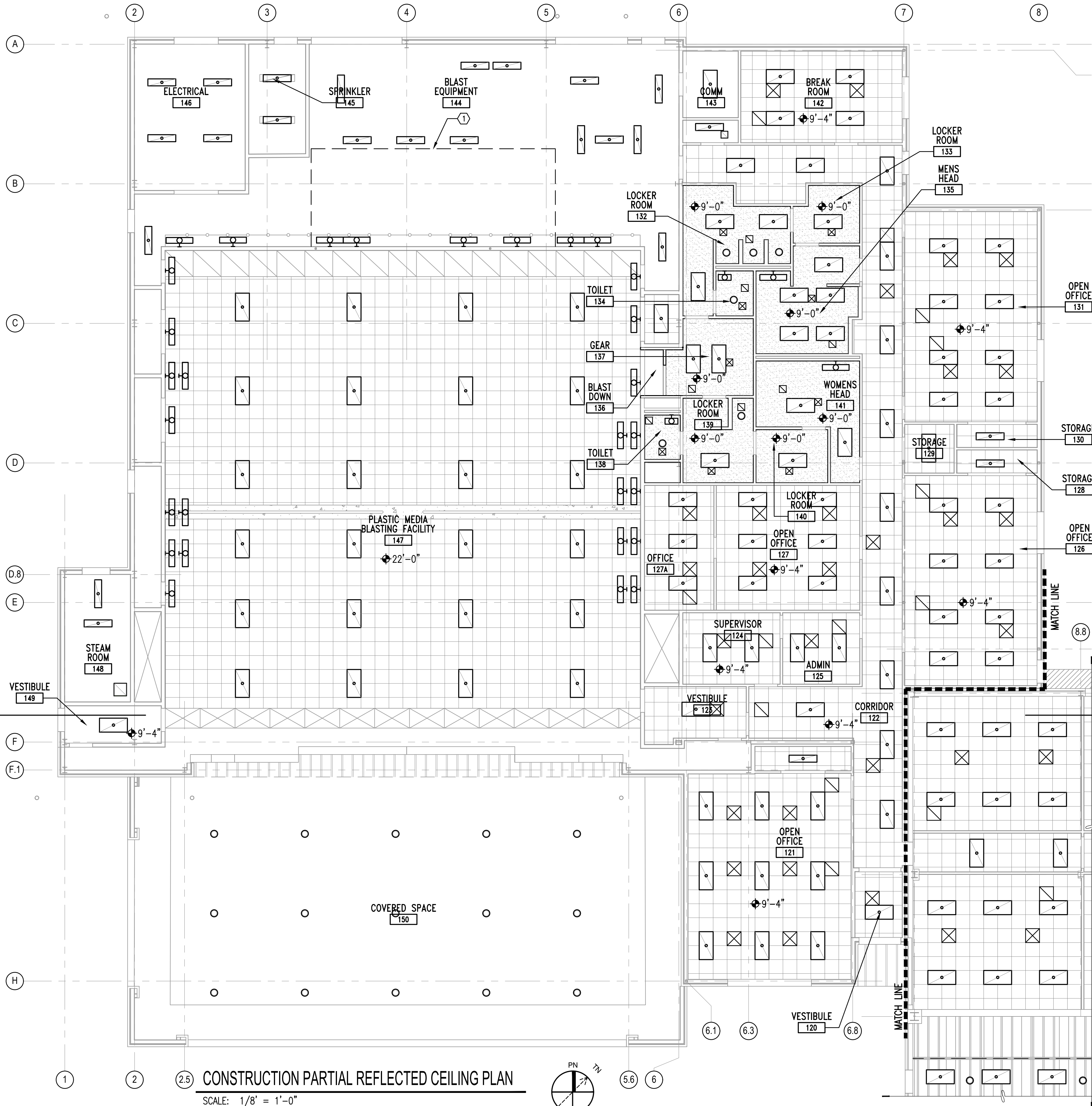


1/4" = 1'-0" 0 2' 4' 8'

3/8" = 1'-0" 0 2' 4' 6'



SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO. 7375939
NAVFAC DRAWING NO. 12816245
SHEET 34 OF 114
A-103



2.5 CONSTRUCTION PARTIAL REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

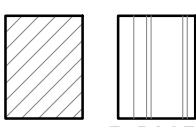
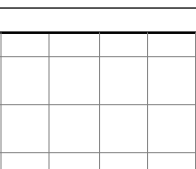
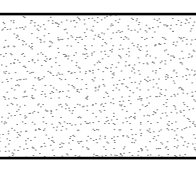
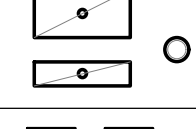
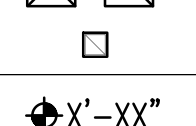
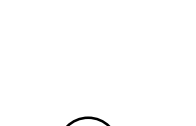
GENERAL SHEET NOTES

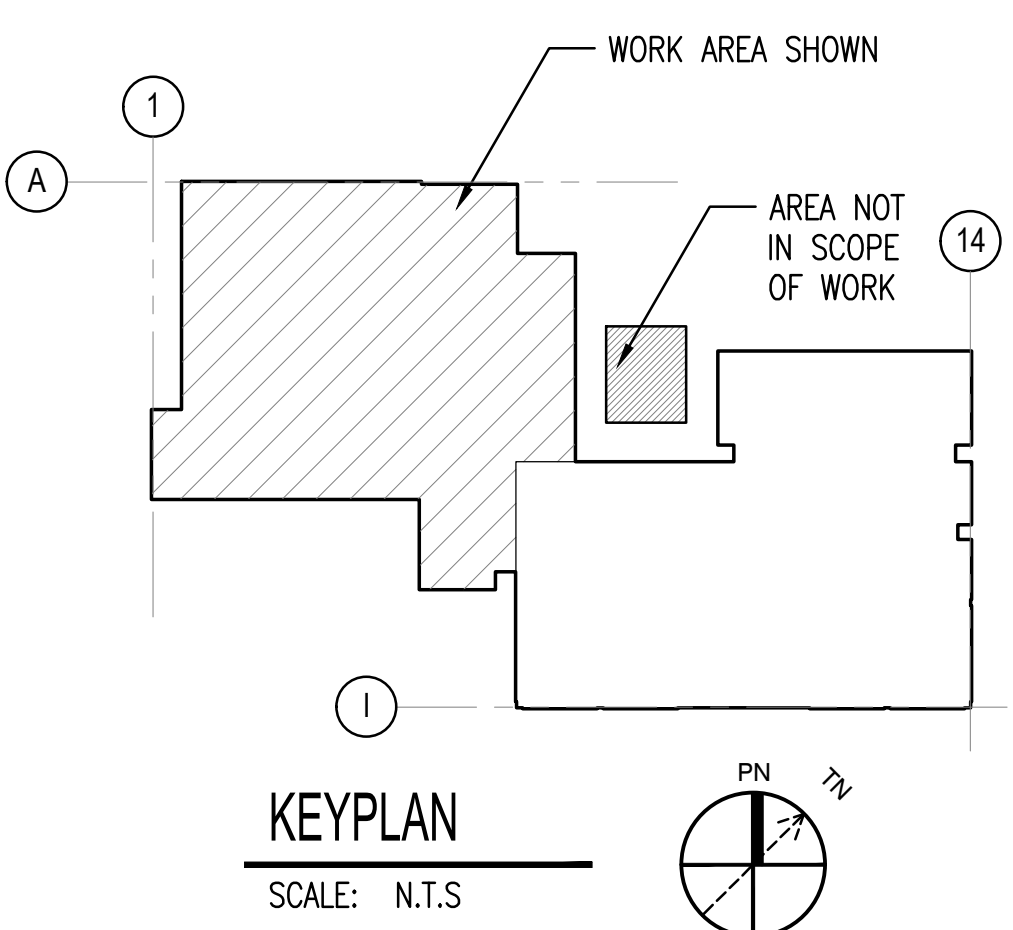
1. CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS BEFORE COMMENCING WORK.
2. SEE CIVIL, FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES.
3. CONTRACTOR TO PROTECT EXISTING ITEMS TO REMAIN.

SHEET KEYNOTES

1. PROVIDE HEAVY DUTY SLIDING CURTAIN WALL WITH TRACK AND CEILING MOUNT. SEE DETAIL A4/A-504.

LEGEND

	EXISTING CEILINGS/SOFFITS TO REMAIN, PROTECT.
	PROVIDE ACOUSTICAL TILES, GRID, AND HANGARS
	PROVIDE SUSPENDED GYPSUM BOARD CEILING (HEADS, GEAR, BLAST DOWN, AND LOCKER ROOMS ONLY)
	PROVIDE LIGHT FIXTURES, SEE ELECTRICAL.
	PROVIDE HVAC DIFFUSERS, SEE MECHANICAL.
	CEILING HEIGHT INDICATOR



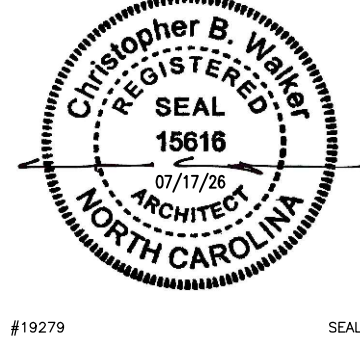
1/8" = 1'-0" 0 4' 8' 16'



APPR
DATE

SYN
DESCRIPTION


#19279 SEAL


#19279 SEAL


Structural Consultants
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ACTIVITY
SATISFACTORY TO
DES DRW CHK

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE
BUILDING 4034, FRC-E
CONSTRUCTION PARTIAL REFLECTIVE CEILING PLAN

SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO. 7375939
NAVFAC DRAWING NO. 12816246
SHEET 35 OF 114
A-104
DRAWN/REVISED: 10 MAY 2014

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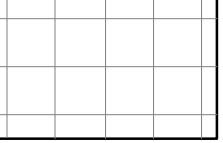
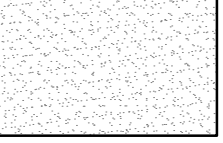
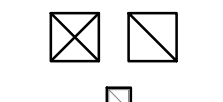
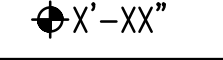
GENERAL SHEET NOTES

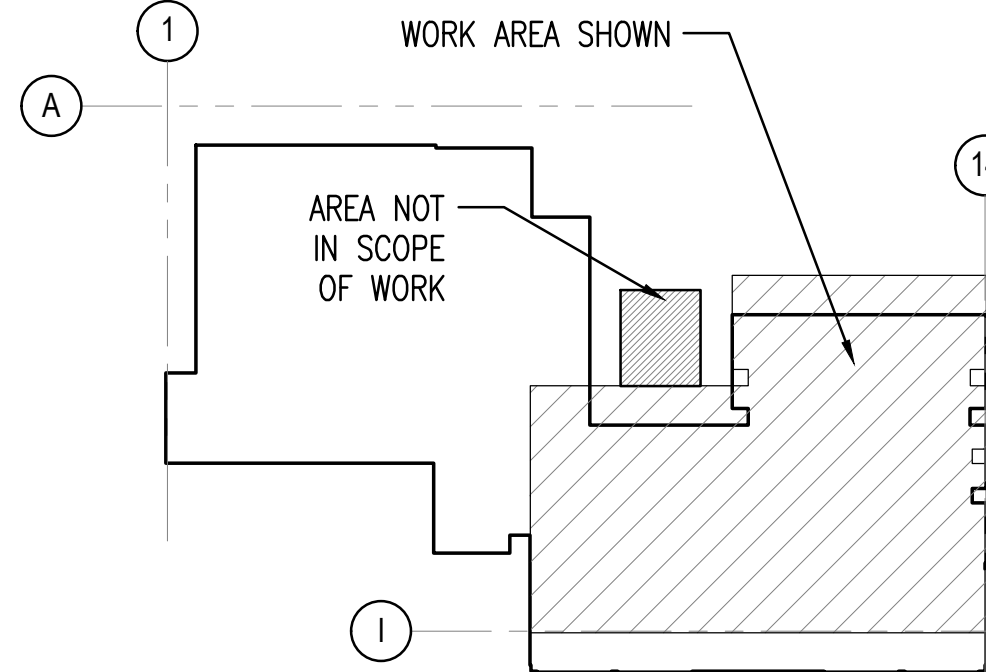
- 1. CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS BEFORE COMMENCING WORK.
- 2. SEE CIVIL, FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES.
- 3. CONTRACTOR TO PROTECT EXISTING ITEMS TO REMAIN.

SHEET KEYNOTES

- 1. PROVIDE 3-5/8" METAL STUD SOFFIT WITH 5/8" GYPSUM BOARD. FINISH AND PAINT. INSTALL 4" BELOW CEILING GRID.

LEGEND

	EXISTING CEILINGS/SOFFITS TO REMAIN, PROTECT.
	PROVIDE ACOUSTICAL TILES, GRID, AND HANGARS
	PROVIDE SUSPENDED GYPSUM BOARD CEILING (HEADS ONLY)
	PROVIDE LIGHT FIXTURES, SEE ELECTRICAL.
	PROVIDE HVAC DIFFUSERS/EXHAUST FAN, SEE MECHANICAL.
	CEILING HEIGHT INDICATOR



KEYPLAN

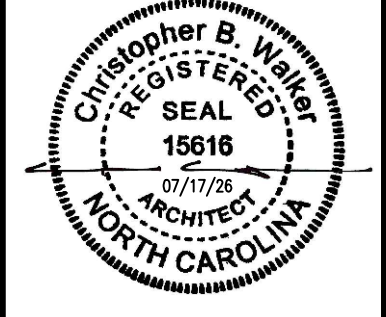
SCALE: N.T.S.

1/8" = 1'-0"

0 4' 8' 16'



SYN	DESCRIPTION	DATE	APPR



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Structural Consultants
748 Lord Dunmore Drive, Suite 101
Virginia Beach, VA 23464
Phone 757-474-0812
Fax 757-474-0819

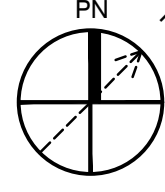
APPROVED	A/E INFO
FOR COMMANDER NAVFAC	
ACTIVITY	
SATISFACTORY TO	
DES	DRW
CHK	

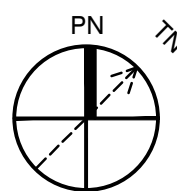
U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
**REPAIR AND UPGRADE
BUILDING 4034, FRC-E**
CONSTRUCTION PARTIAL REFLECTIVE CEILING PLAN

SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO. 7375939
NAVFAC DRAWING NO. 12816247
SHEET 36 OF 114

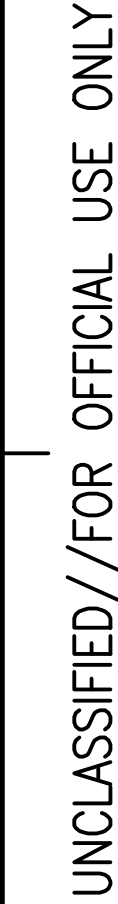
CONSTRUCTION PARTIAL REFLECTED CEILING PLAN

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





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A-107

WALKER
the **GROUP**
ARCHITECTURE
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252-6366778 252-6366992(FAX)

SHEET KEYNOTES



APPROVED		
R COMMANDER NAVFAC		
ACTIVITY		
DISFACTORY TO		
ES	DRW	CHK

U.S. MARINE CORPS AIR STATION CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE
BUILDING 4034, FRC-E
CONSTRUCTION EXTERIOR ELEVATIONS

SCALE: AS NOTED		
PROJECT NO.:		XK11237
MAXIMO WORK ORDER NO. 7375939		
VVFAC DRAWING NO. 12816250		
SHEET	39	OF 114
A-201		

DRAWFORM REVISION: 10 MAY 2014
OFFICIAL USE ONLY

SCALE: $1/8" = 1'-0"$ A-101

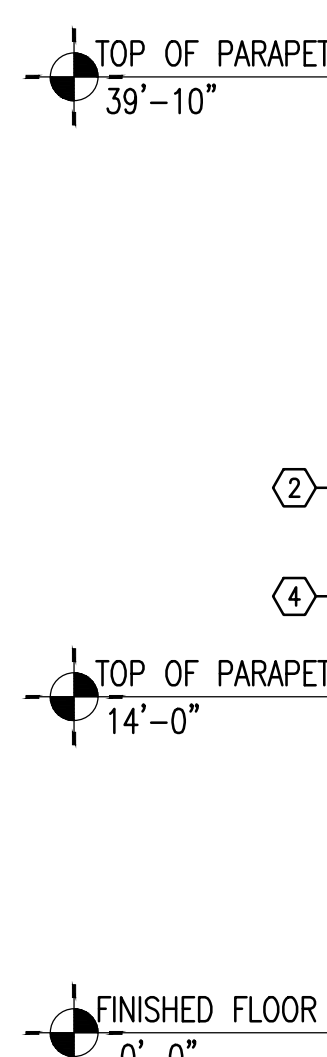
SCALE: $1/8" = 1'-0"$ A-102

SCALE: N.T.S

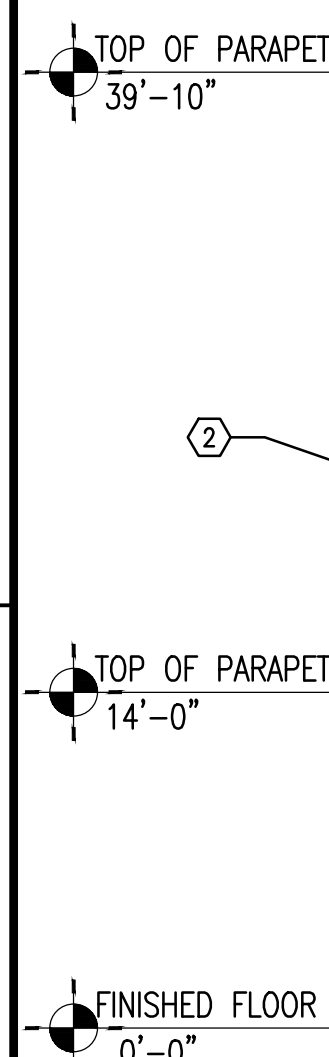
1/8" = 1'-0"

WALKER
the GROUP
ARCHITECTURE
incorporated
PO BOX 541, NEW BERN, NC 28563
252-6366778 252-6366992(FAX)

DRAWFORM REVISION: 10 MAY 2014
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A2 CONSTRUCTION NORTH ELEVATION
SCALE: 1/8" = 1'-0" A-102



A2 CONSTRUCTION NORTH ELEVATION
SCALE: 1/8" = 1'-0" A-102

Keyplan diagram showing the layout of the building. The building footprint is shown with a shaded rectangular area labeled "AREA NOT IN SCOPE OF WORK". The building is oriented with North (N) at the top. The keyplan includes a north arrow, a scale bar, and a title block. The title block contains the text "KEYPLAN" and "SCALE: N.T.S."

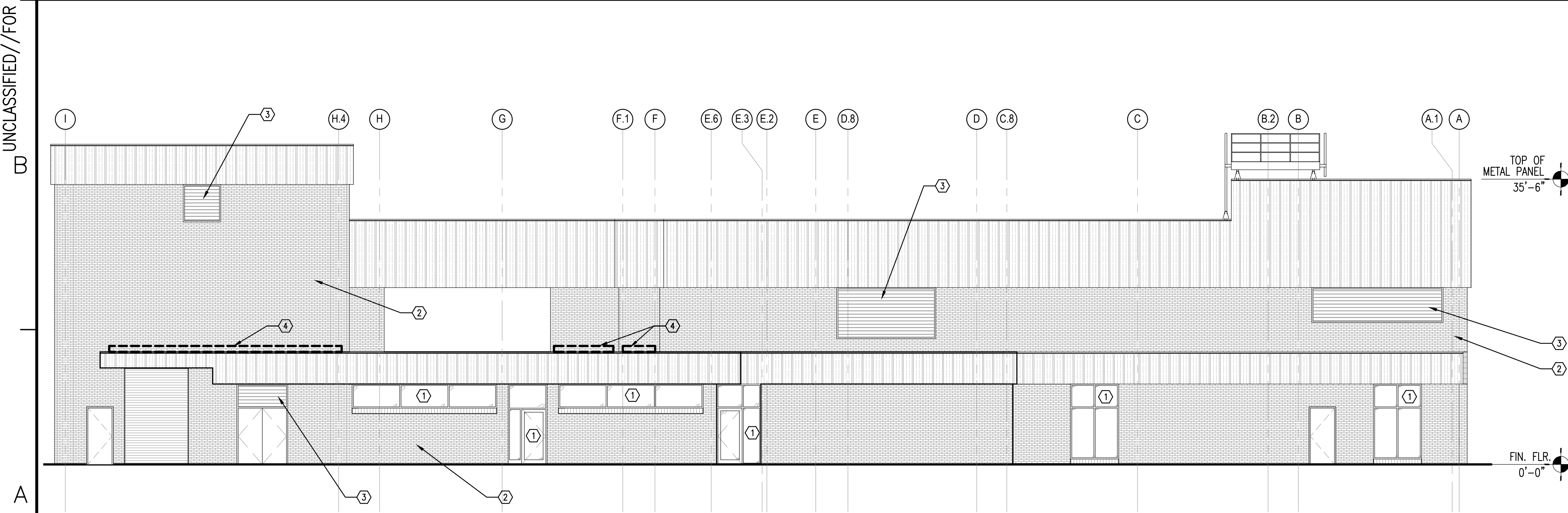
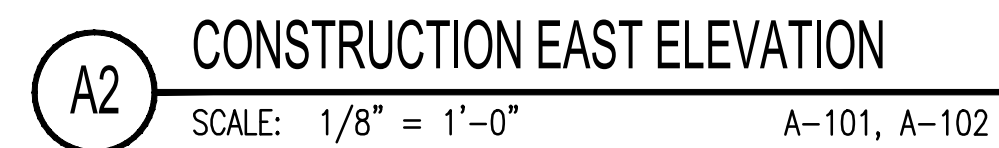
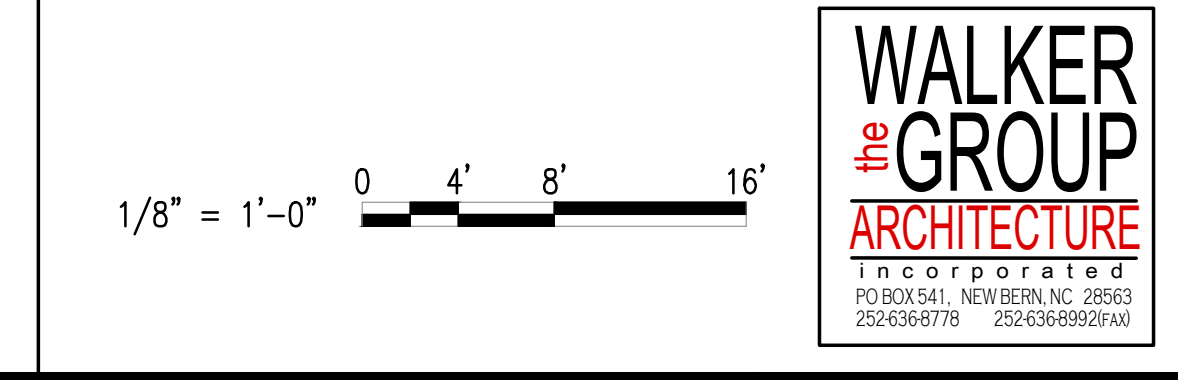
WALKER
the GROUP
ARCHITECTURE
incorporated
PO BOX 541, NEW BERN, NC 28563
252-6368778 252-636992(fax)

SCALE: AS NOTED		
PROJECT NO.: XXK11237		
MAXIMO WORK ORDER NO. 7375939		
NAVFAC DRAWING NO. 12816251		
SHEET	40	OF 114
A-202		

1. PROVIDE ALUMINUM WINDOWS, DOORS, SIDELITES, AND FRAMES, SEE DOOR AND WINDOW SCHEDULES.
2. PROVIDE WATER SEALANT ON MASONRY ONLY, TYPICAL OF ENTIRE BUILDING. ENSURE THAT MASONRY SEALER IS NOT APPLIED TO NON-MASONRY MATERIALS.
3. LOUVER TO REMAIN, SEE MECHANICAL.
4. PROVIDE NEW CONTINUOUS FLASHING, AND WEEPS @ 32" O.C.
4. REPLACE (3) COURSES BRICK FACE ALONG HIGH ROOF WALL AND SEAL BRICK WITH SILOXANE. SEE C1/A-502.



SCALE: AS NOTED		
PROJECT NO.:		XK11237
AXIMO WORK ORDER NO. 7375939		
VAVFAC DRAWING NO. 12816252		
SHEET	41	OF 114
A-203		



1

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3

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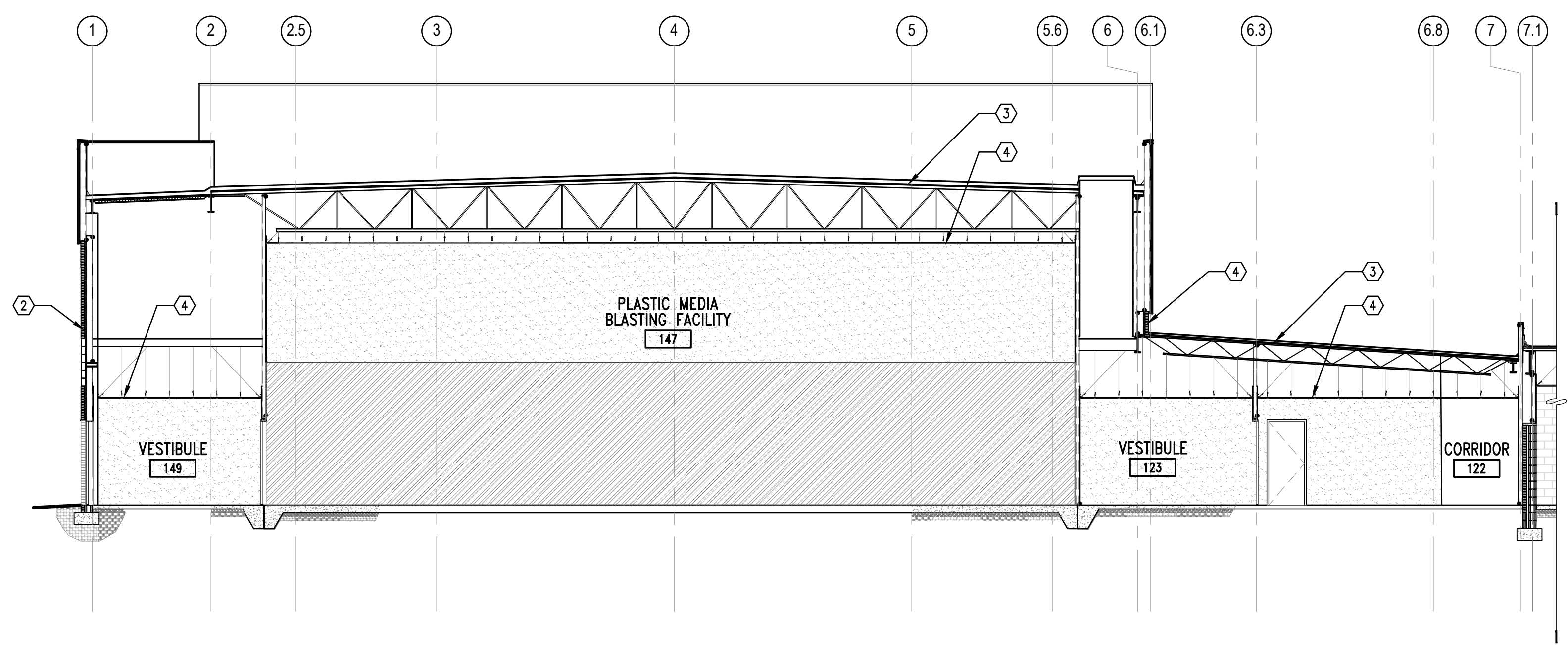
5 UNCLASSIFIED//FOR OFFICIAL USE ONLY

GENERAL SHEET NOTES

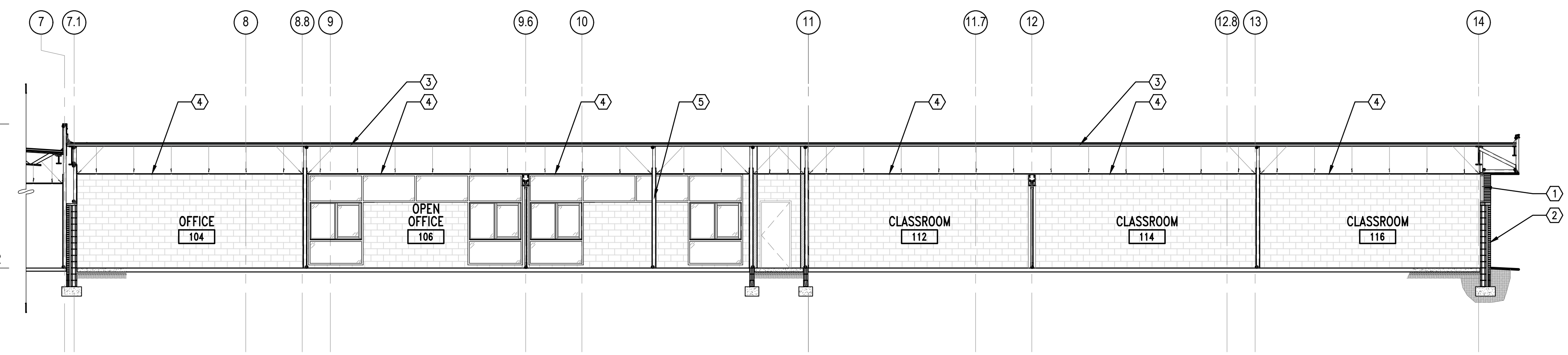
- 1. CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS BEFORE COMMENCING WORK.
- 2. SEE CIVIL, FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES.
- 3. CONTRACTOR TO PROTECT EXISTING ITEMS TO REMAIN.

SHEET KEYNOTES

- 1. PROVIDE ALUMINUM WINDOWS, DOORS, SIDELITES, AND FRAMES, SEE DOOR AND WINDOW SCHEDULES.
- 2. PROVIDE WATER SEALANT ON MASONRY ONLY, TYPICAL OF ENTIRE BUILDING. ENSURE THAT MASONRY SEALER IS NOT APPLIED TO NON-MASONRY MATERIALS.
- 3. PROVIDE 2-PLY MODIFIED BITUMEN ROOF, INCLUDING RECOVERY BOARD, INSULATION, AND ALL FLASHINGS.
- 4. PROVIDE ACOUSTICAL CEILING TILES, GRID, AND HANGARS.
- 5. METAL STUD AND GYPSUM BOARD WALL. FINISH AND PAINT. SEE A-102 FOR WALL TYPE.



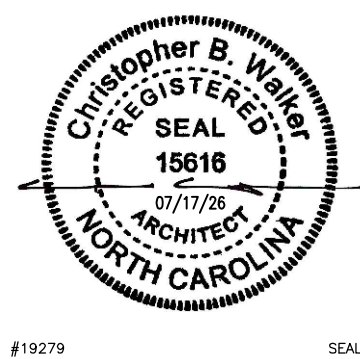
C2 CONSTRUCTION BUILDING SECTION
SCALE: 3/16" = 1'-0" A-102



A2 CONSTRUCTION BUILDING SECTION
SCALE: 3/16" = 1'-0" A-101

3/16" = 1'-0" 0 4' 8' 12'



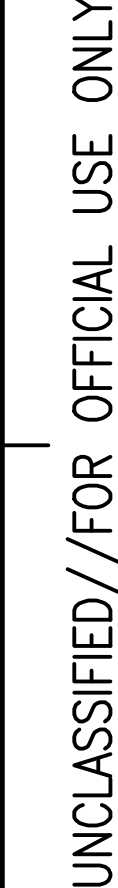
APPR	
DATE	
SYN	
DESCRIPTION	
	
	
NRW ENGINEERING Structural Consultants 748 Lord Dunmore Drive, Suite 101 Virginia Beach, VA 23464 Phone 757-474-0612 Fax 757-474-0919	
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FOR COMMANDER NAVFAC	
ACTIVITY	
SATISFACTORY TO	
BES	CHK
U.S. MARINE CORPS AIR STATION CHERRY POINT, NORTH CAROLINA REPAIR AND UPGRADE BUILDING 4034, FRC-E CONSTRUCTION BUILDING SECTIONS	
SCALE: AS NOTED	
PROJECT NO.: XK11237	
MAXIMO WORK ORDER NO. 7375939	
NAVFAC DRAWING NO. 12816253	
SHEET 42 OF 114	
A-301	

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SHEET KEYNOTES



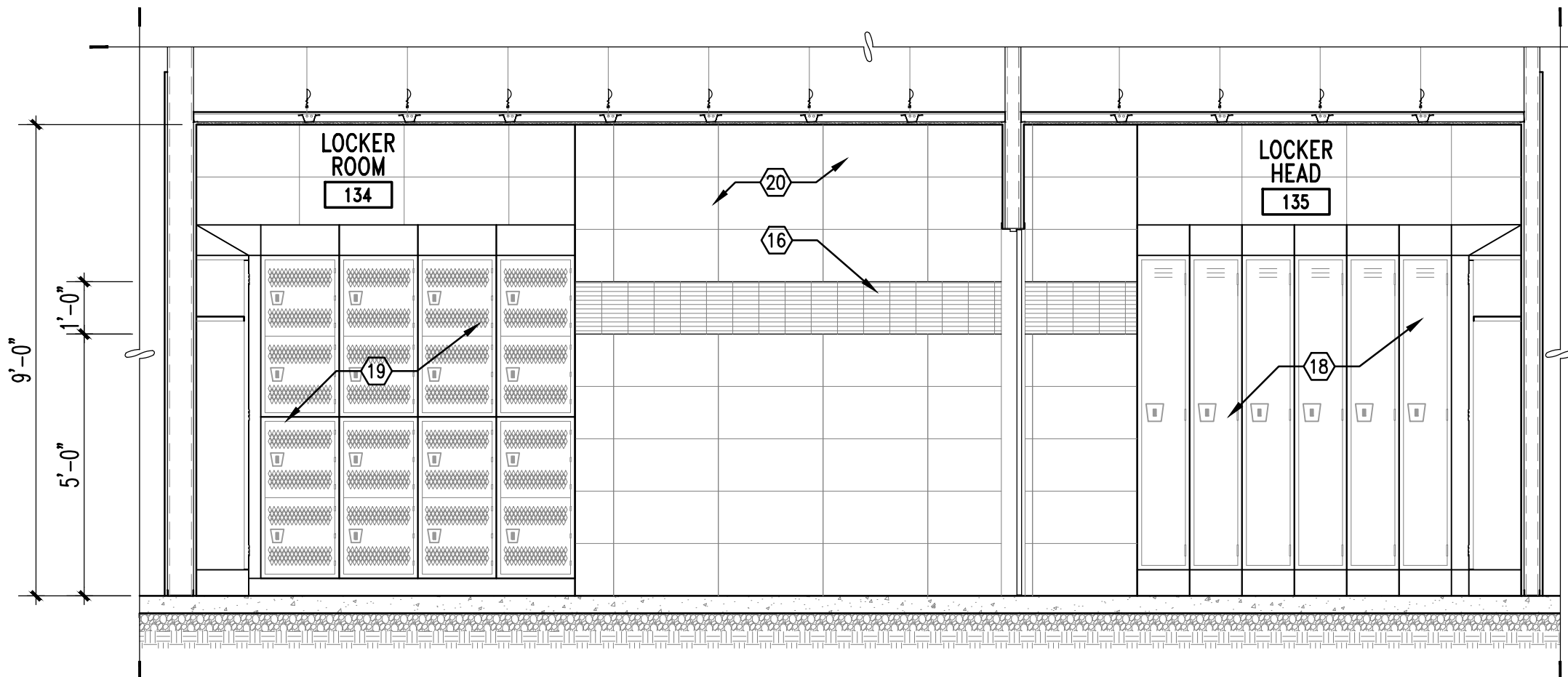
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PROJECT NO.: XX11237		
AXIMO WORK ORDER NO. 7375939		
AVFAC DRAWING NO. 12816254		
SHEET 43	OF	114
A-302		



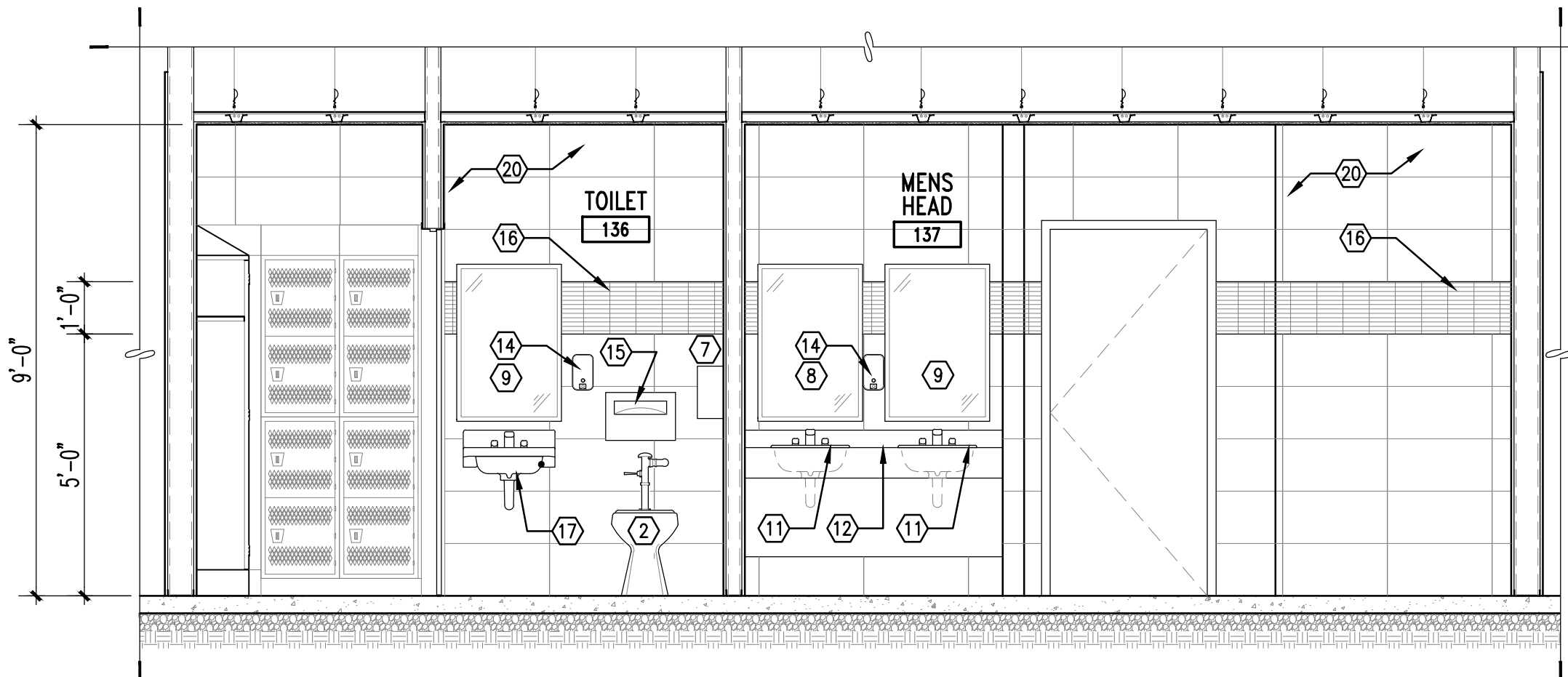
SCALE:	AS NOTED	
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MAXIMO WORK ORDER NO.	7375939	
NAVFAC DRAWING NO.	12816256	
SHEET	45	OF 114

 Δ

D

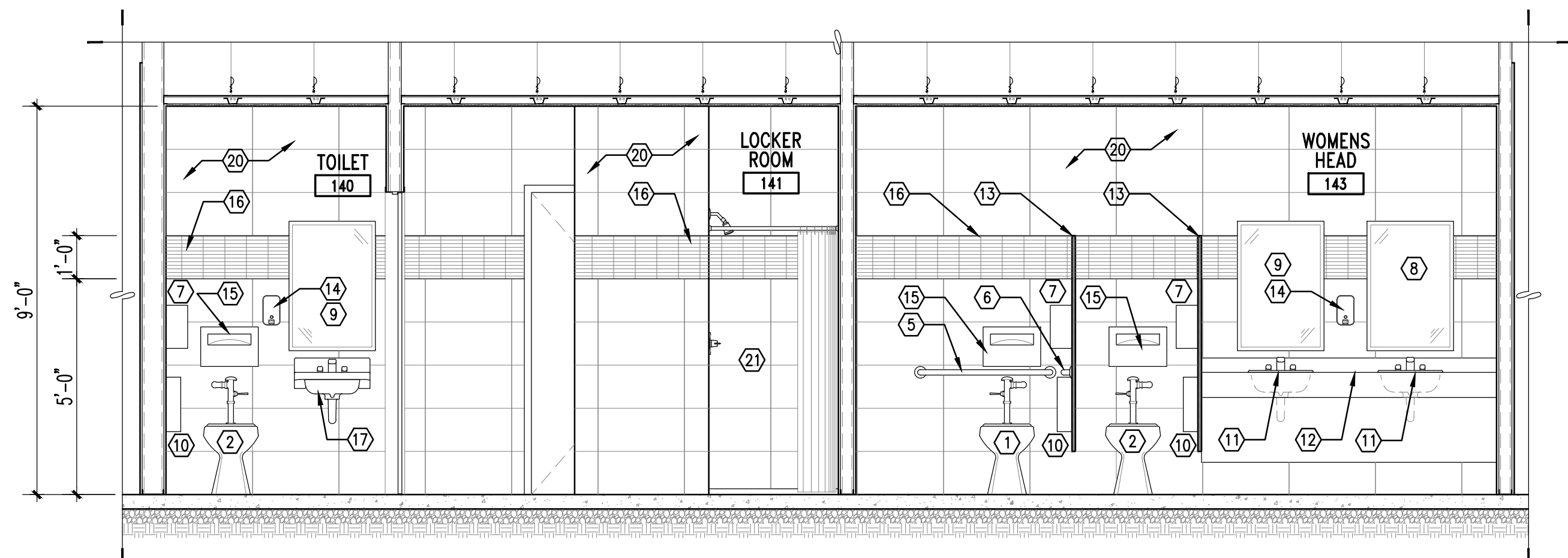


C1 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0" A-402

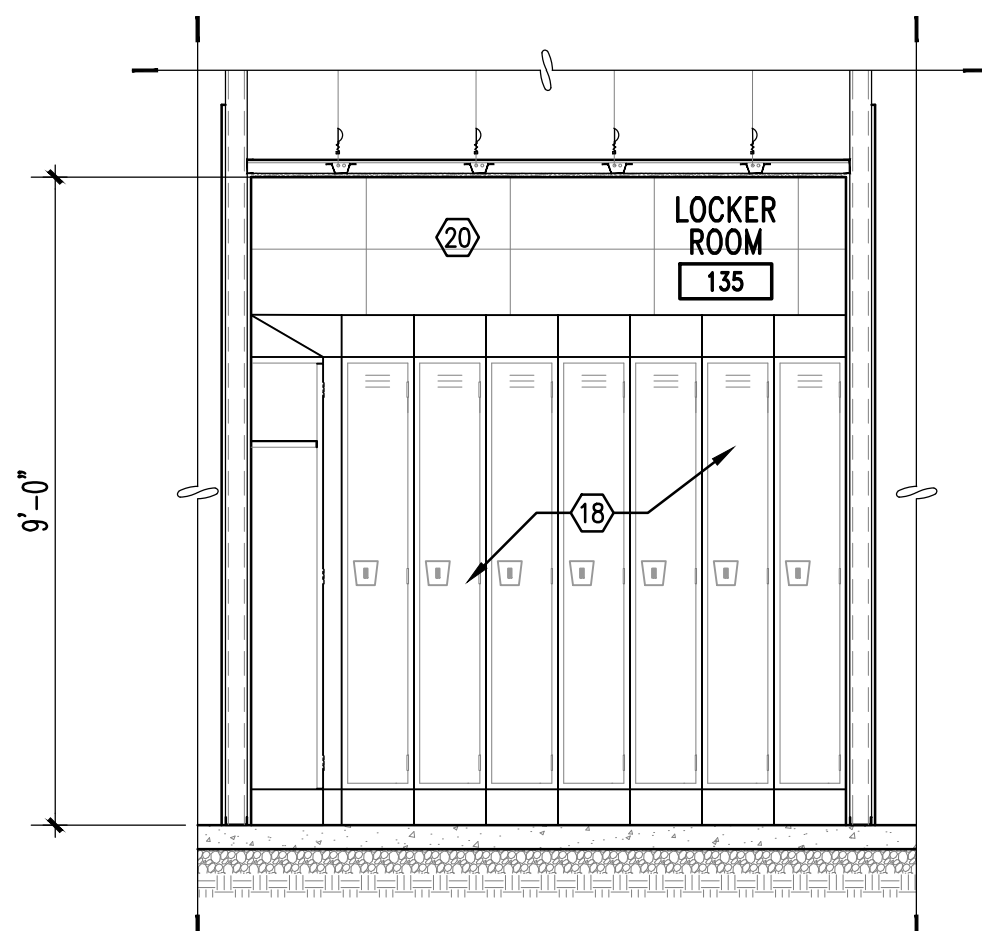


C3 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0" A-402

C

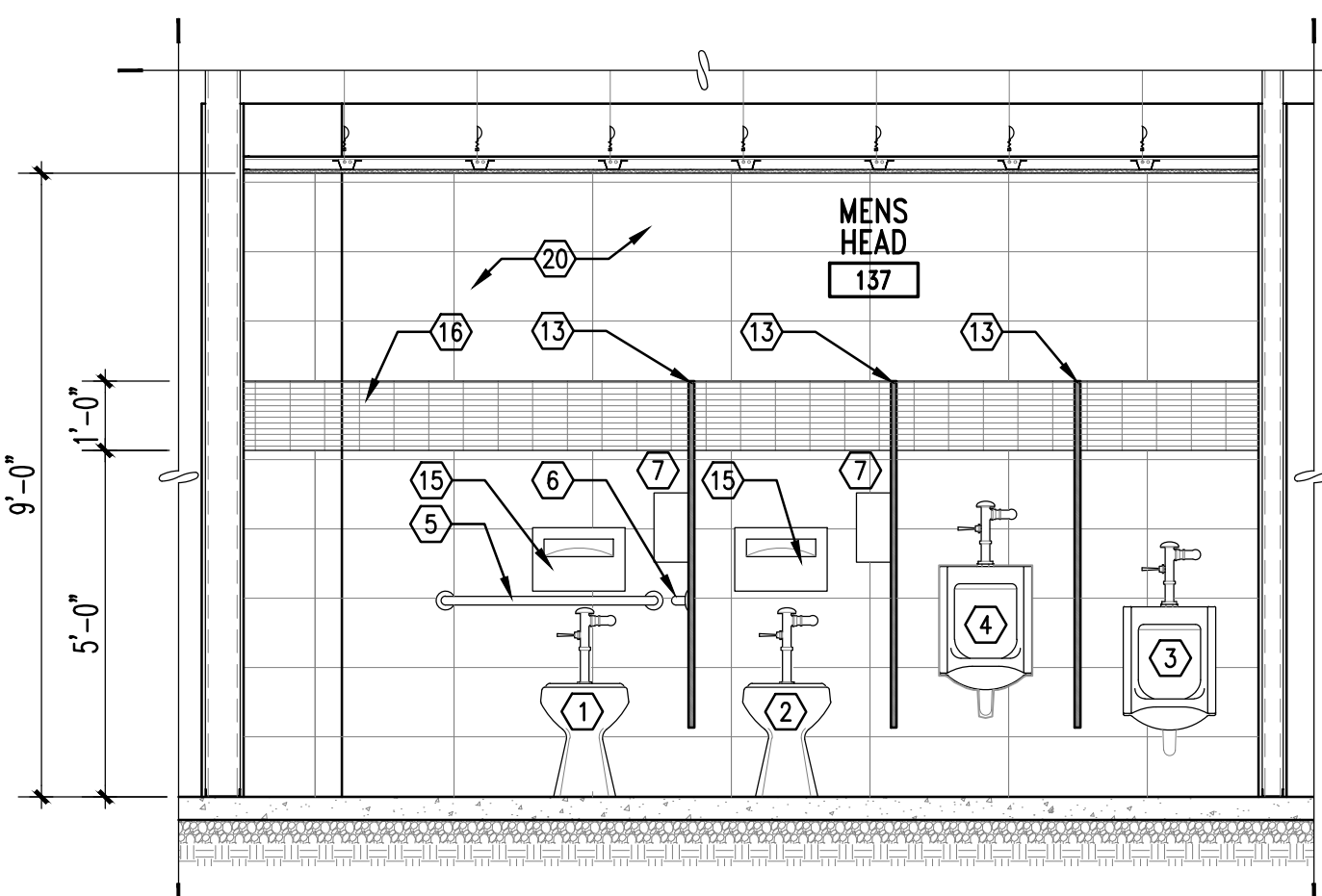


B1 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0" A-402

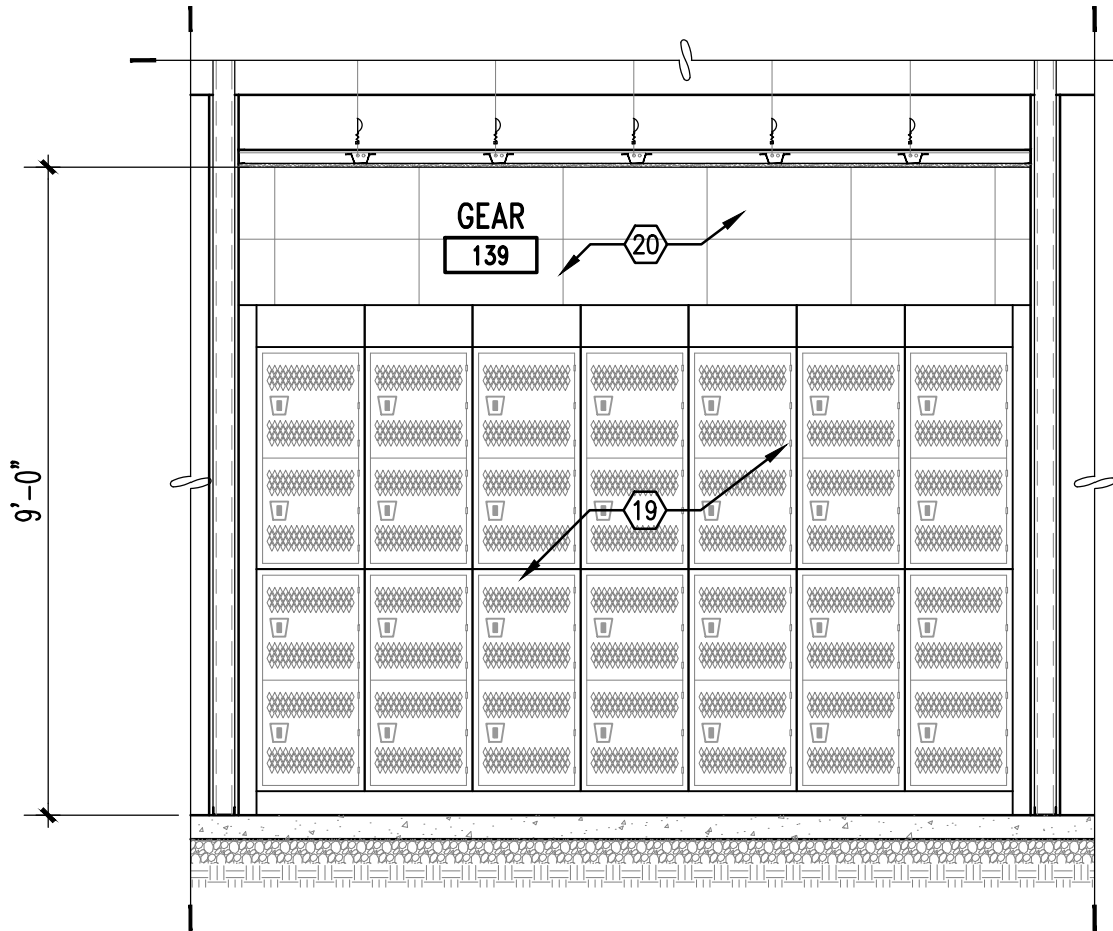


B3 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0" A-402

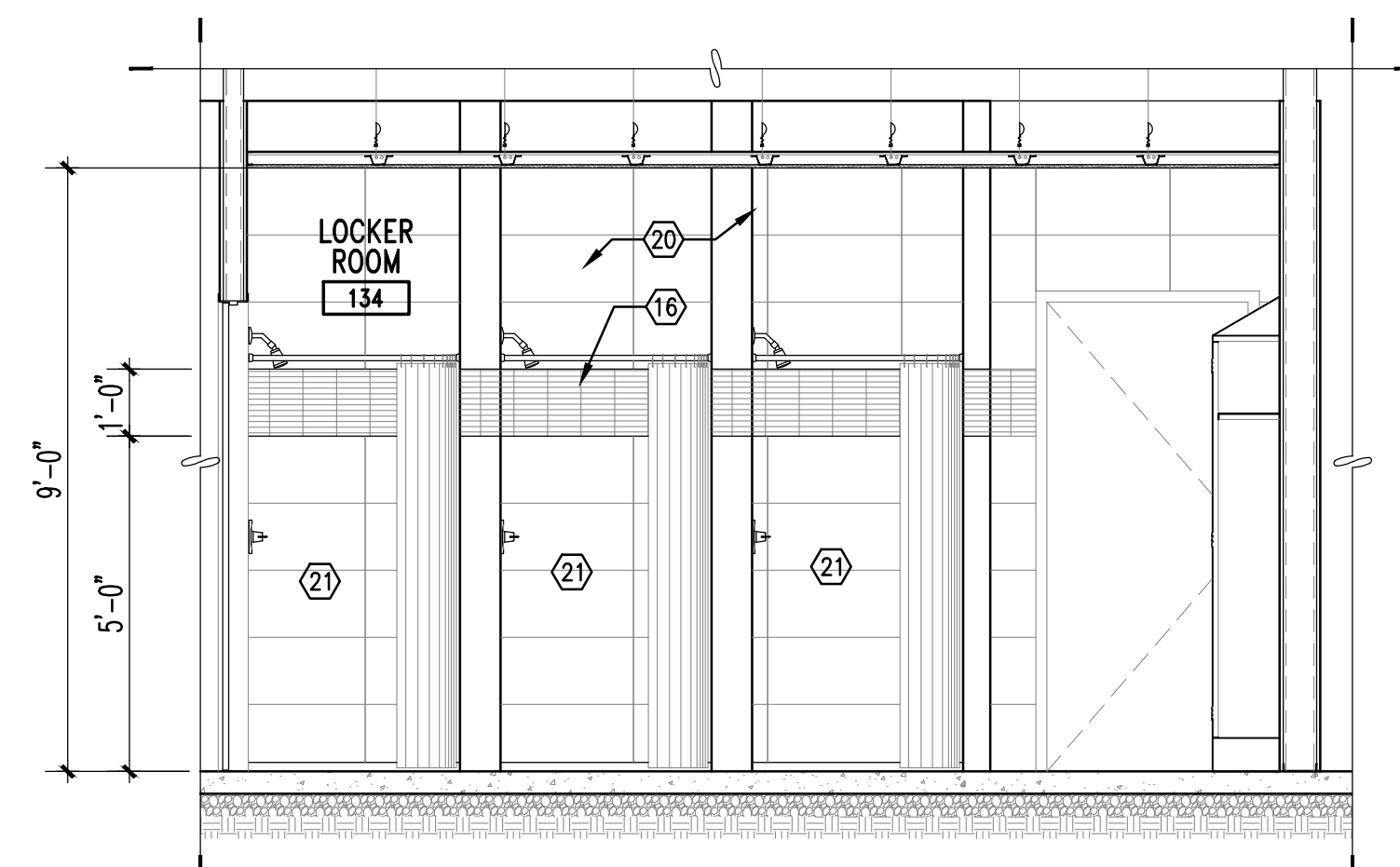
A



A1 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0" A-402



A2 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0" A-402



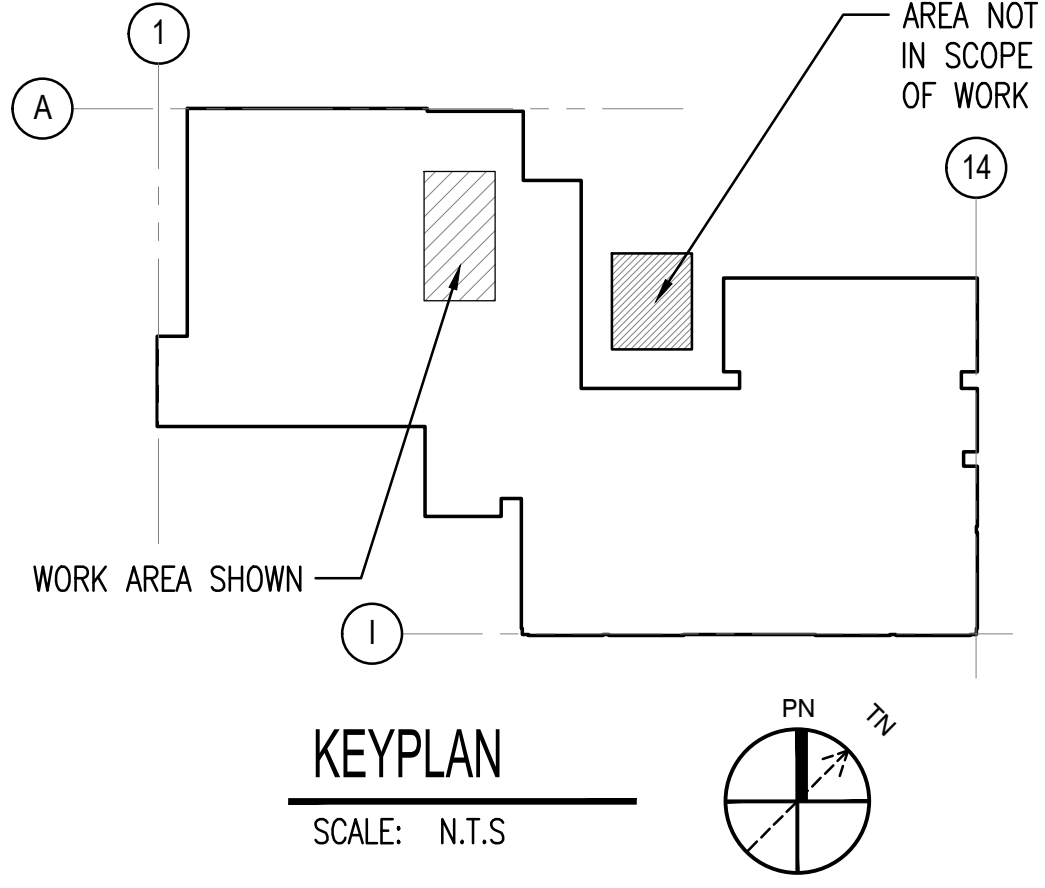
A3 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0" A-402

GENERAL SHEET NOTES

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING DIMENSIONS BEFORE COMMENCING WORK.
2. SEE CIVIL, FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES.
3. CONTRACTOR TO PROTECT EXISTING ITEMS TO REMAIN.

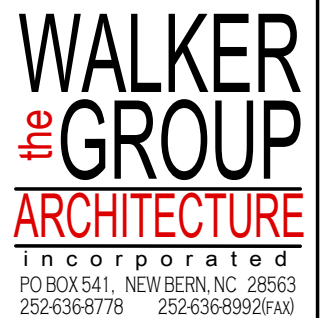
SHEET KEYNOTES

1. FLOOR MOUNTED ACCESSIBLE TOILET. SEE A1/A-404. SEE PLUMBING.
2. FLOOR MOUNTED STANDARD TOILET. MOUNT WITH SEAT AT 17" A.F.F. SEE PLUMBING.
3. ACCESSIBLE WALL MOUNTED URINAL. SEE A3/A-401. SEE PLUMBING.
4. WALL MOUNTED STANDARD URINAL. SEE PLUMBING.
5. 36" GRAB BAR, SEE A1/A-404.
6. 42" GRAB BAR, SEE A1/A-404.
7. JUMBO TOILET TISSUE DISPENSER, SEE A1/A-404.
8. 24"W X 36"H TILT MIRROR WITH STAINLESS STEEL FRAME. SEE A1/A-404.
9. 24"W X 36"H MIRROR WITH STAINLESS STEEL FRAME. SEE A1/A-404.
10. SURFACE MOUNTED SANITARY NAPKIN DISPOSAL. SEE A3/A-401.
11. SINK WITH FAUCET. SEE A1/A-404. SEE PLUMBING.
12. SOLID SURFACE COUNTER TOP. SEE A3/A-404.
13. TOILET/URINAL PARTITIONS SEE FINISH SCHEDULE.
14. WALL MOUNTED SOAP DISPENSER. SEE A1/A-404.
15. SURFACE MOUNTED SEAT COVER DISPENSER. SEE A1/A-404.
16. WALL TILE ACCENT BAND, SEE FINISH SCHEDULE.
17. WALL MOUNTED SINK. SEE A1/A-404. SEE PLUMBING.
18. PROVIDE 12" LOCKERS, SEE SPECIFICATIONS, TYPE A.
19. PROVIDE 18" LOCKERS, SEE SPECIFICATIONS, TYPE B.
20. FULL HEIGHT WALL TILE, SEE FINISH SCHEDULE.
21. BUILT-IN TILE SHOWERS WITH SOLID SURFACE BASIN. PROVIDE SHOWER CURTAIN AND ROD. SEE PLUMBING. SEE C1/A-602.



KEYPLAN
SCALE: N.T.S.

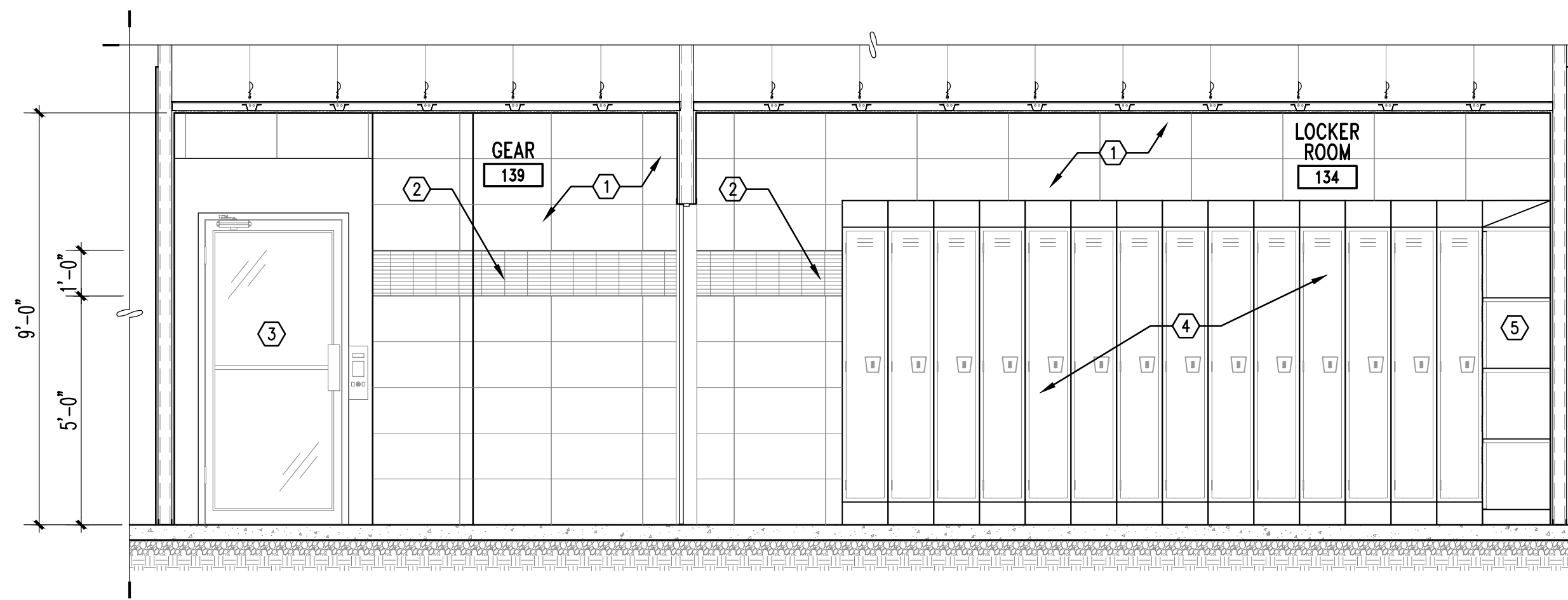
3/8" = 1'-0" 0 2' 4' 6'



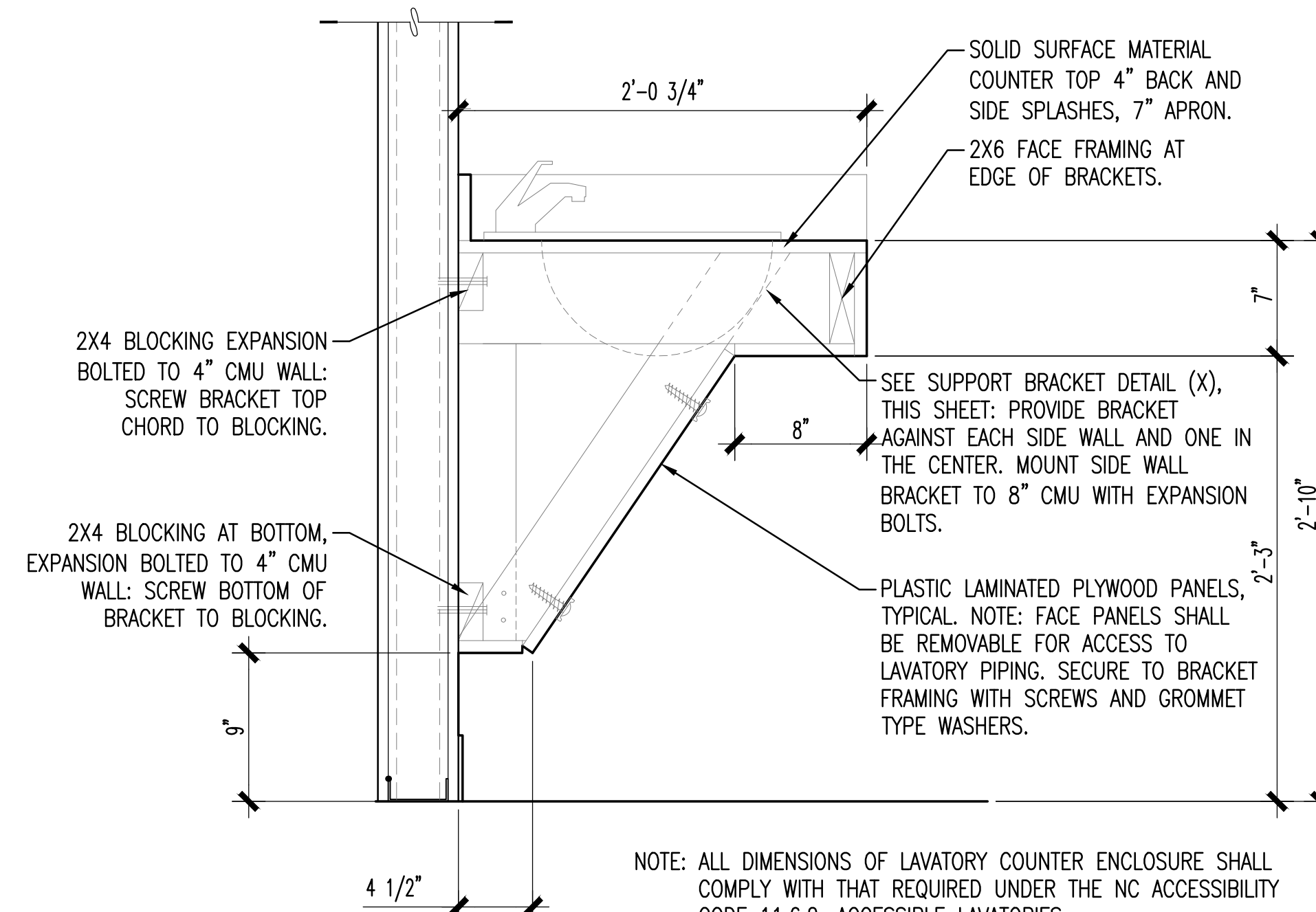
NRW ENGINEERING
Structural Consultants
748 Lord Dunmore Drive, Suite 101
Virginia Beach, VA 23464
Phone 757-474-0812
Fax 757-474-0919

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE
BUILDING 4034, FRC-E
CONSTRUCTION INTERIOR ELEVATIONS

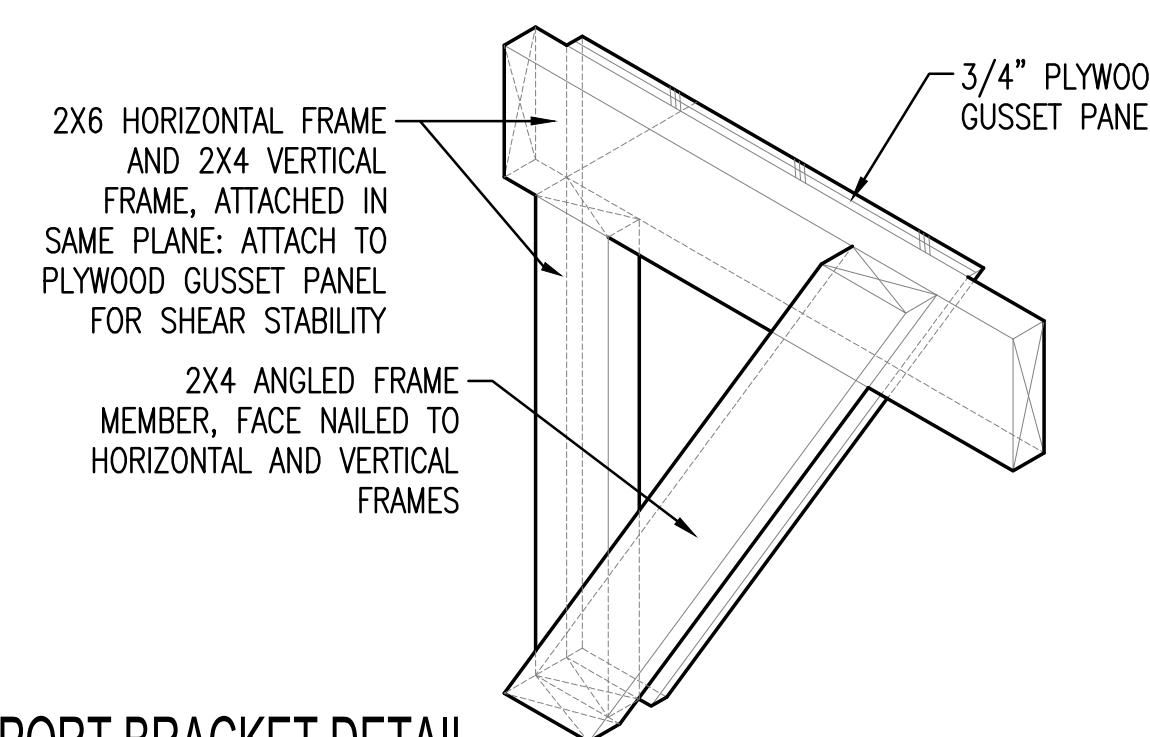
SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO. 7375939
NAVFAC DRAWING NO. 12816257
SHEET 46 OF 114
A-403



C3 INTERIOR ELEVATION
SCALE: $3/8" = 1'-0"$ A-402



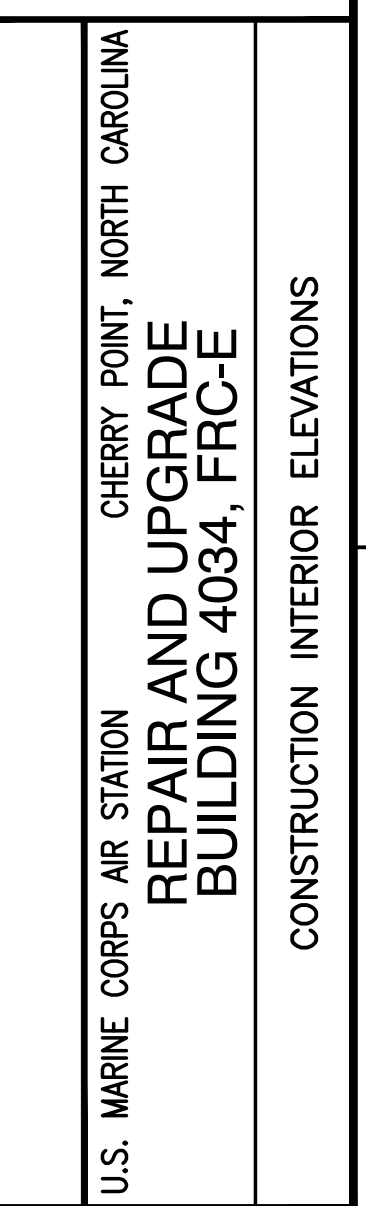
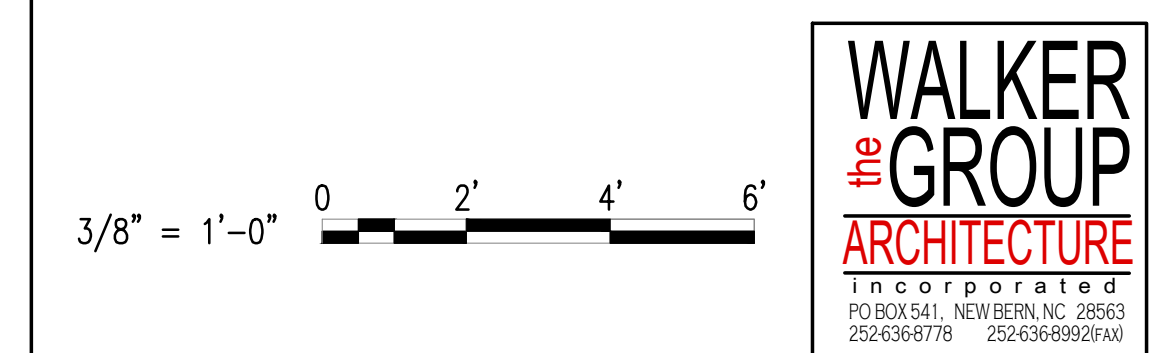
B3 SOLID SURFACE COUNTER TOP DETAIL
SCALE: N.T.S. A-404

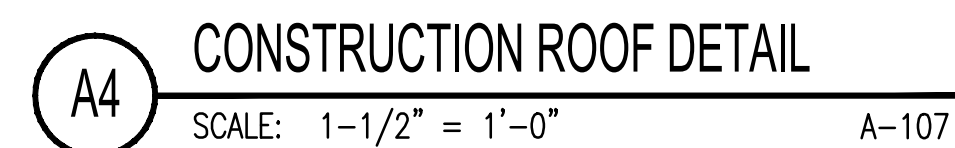
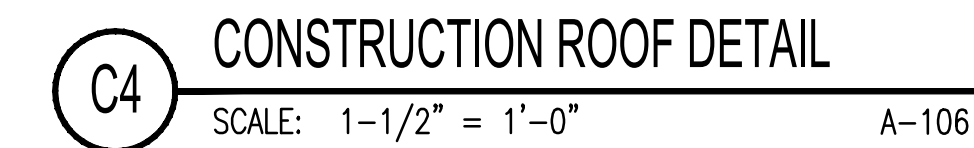


A3 SUPPORT BRACKET DETAIL

SCALE: N.T.S.

A-404





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252-636-8778 252-636-8992(FAX)

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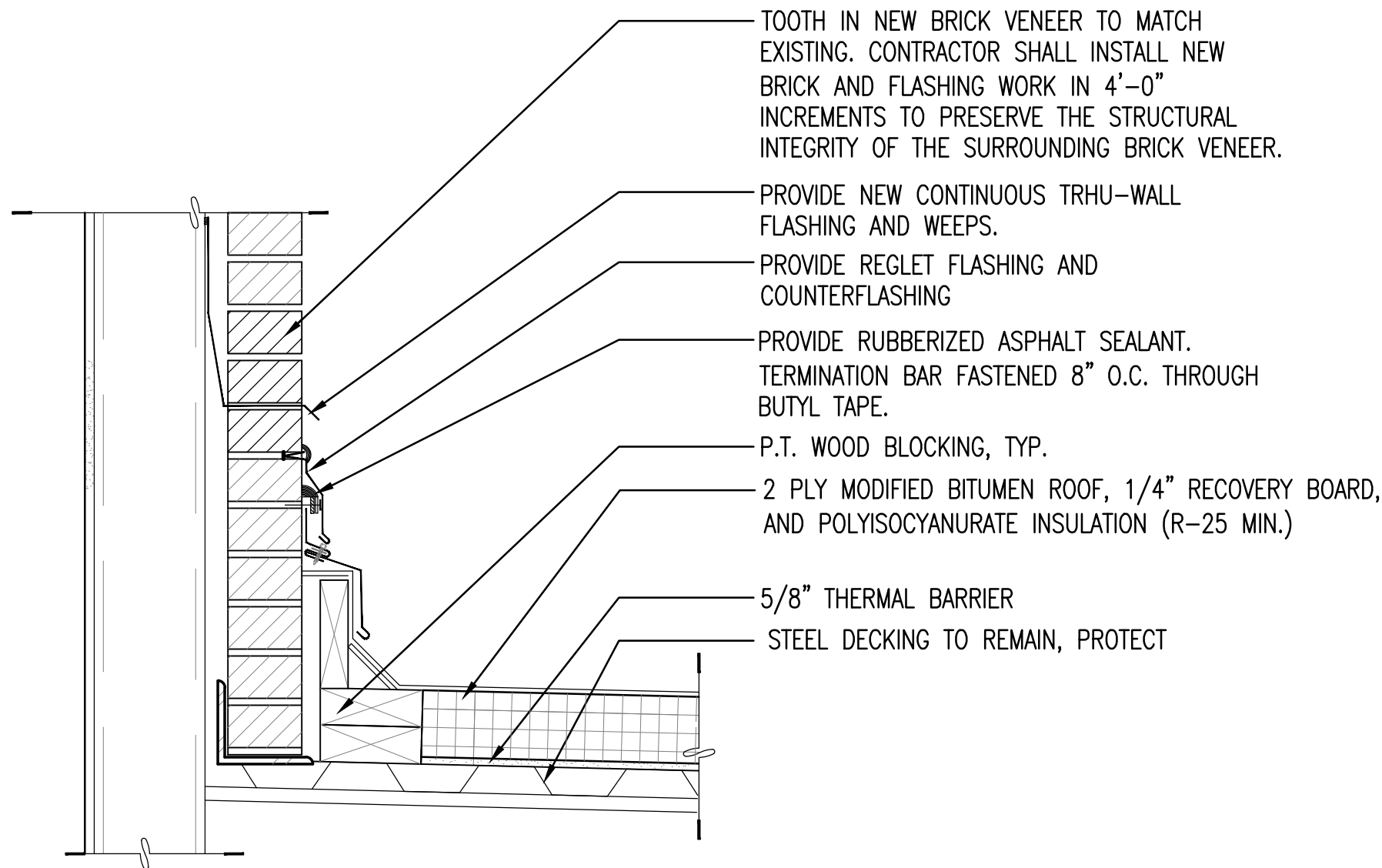
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D

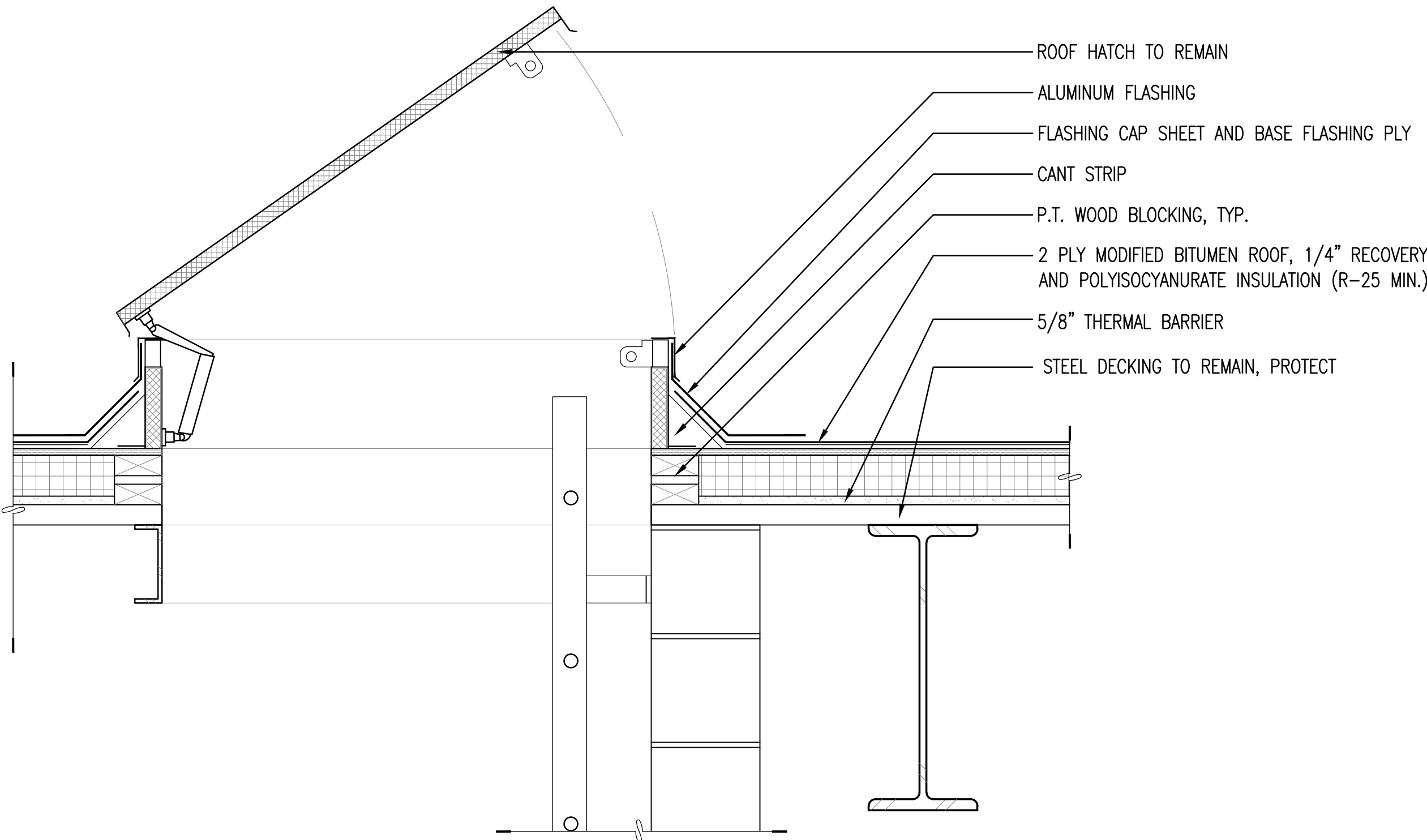
C

B

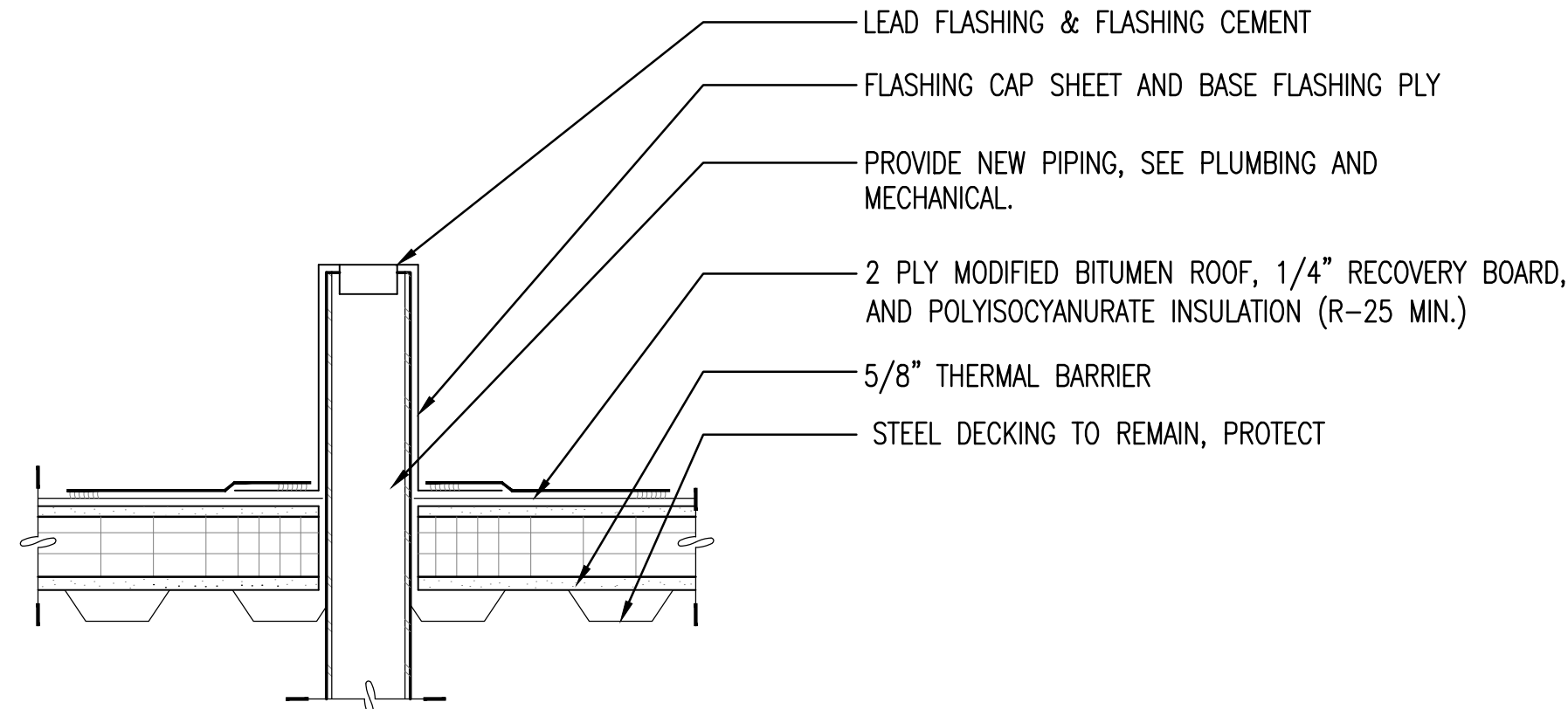
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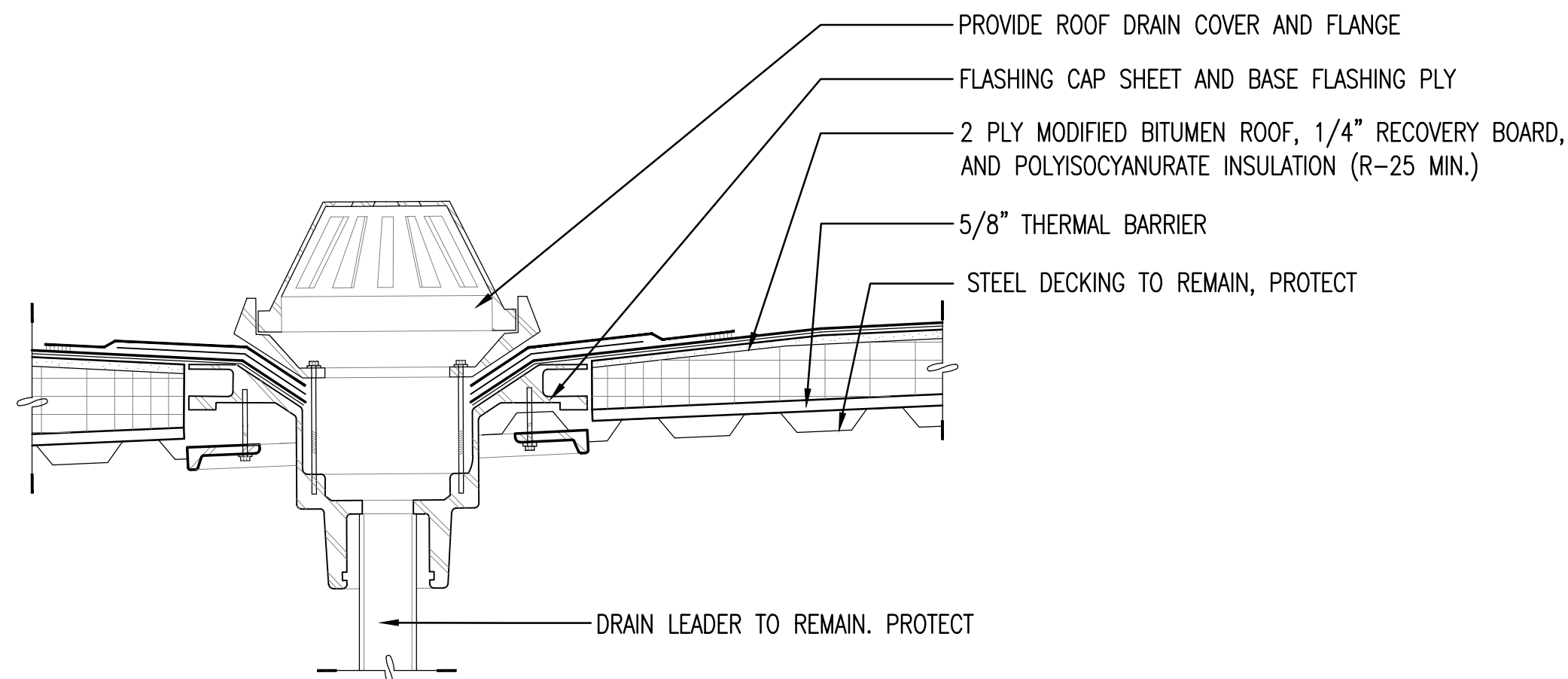
C1 CONSTRUCTION ROOF DETAIL
SCALE: 1-1/2" = 1'-0" A-106, A-107



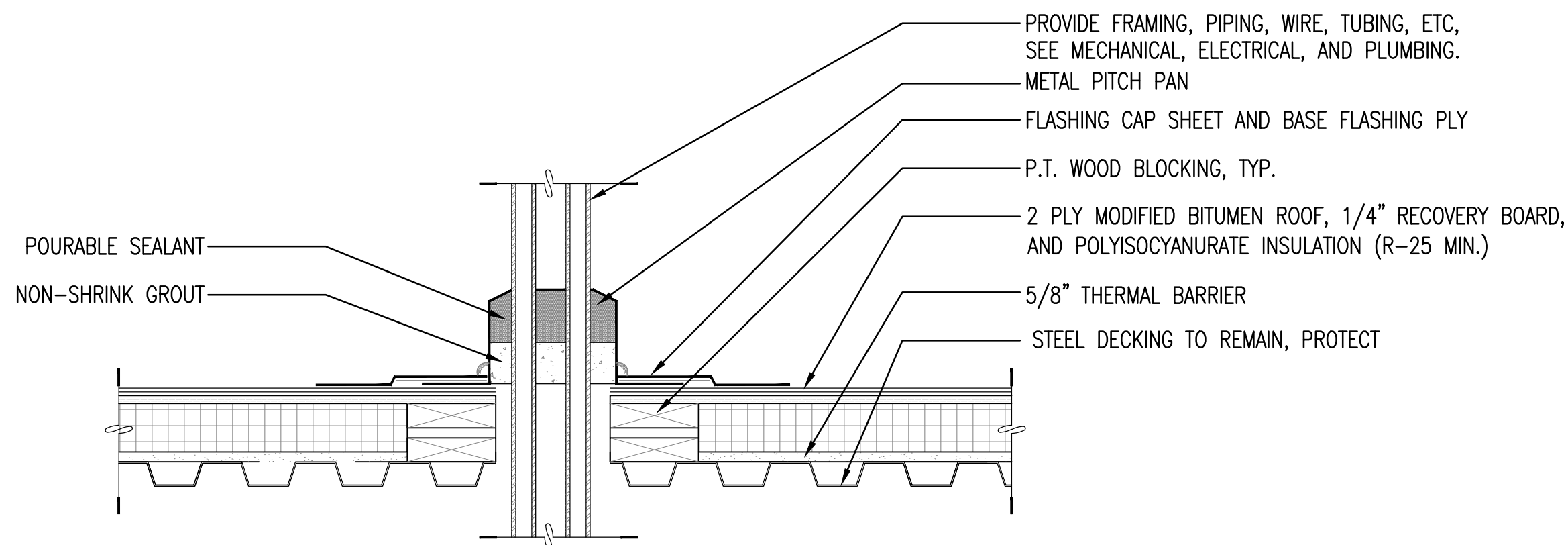
A1 CONSTRUCTION ROOF DETAIL
SCALE: 1-1/2" = 1'-0" A-106, A-107



C4 CONSTRUCTION ROOF DETAIL
SCALE: 1-1/2" = 1'-0" A-107



B4 CONSTRUCTION ROOF DETAIL
SCALE: 1-1/2" = 1'-0" A-107

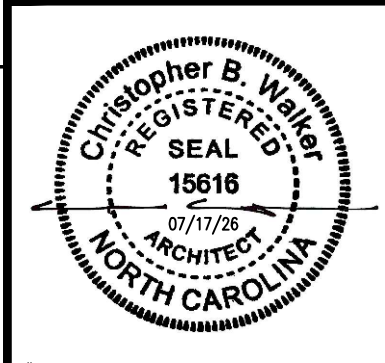


A4 CONSTRUCTION ROOF DETAIL
SCALE: 1-1/2" = 1'-0" A-106

1 1/2" = 1'-0" 0 4" 8" 1'-4"



SYN	DESCRIPTION	DATE	APPR



APPROVED	A/E INFO
FOR COMMANDER NAVFAC	
ACTIVITY	
SATISFACTORY TO	
BES	DRW
CHK	

U.S. MARINE CORPS AIR STATION	CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE	
BUILDING 4034, FRC-E	
CONSTRUCTION DETAILS	

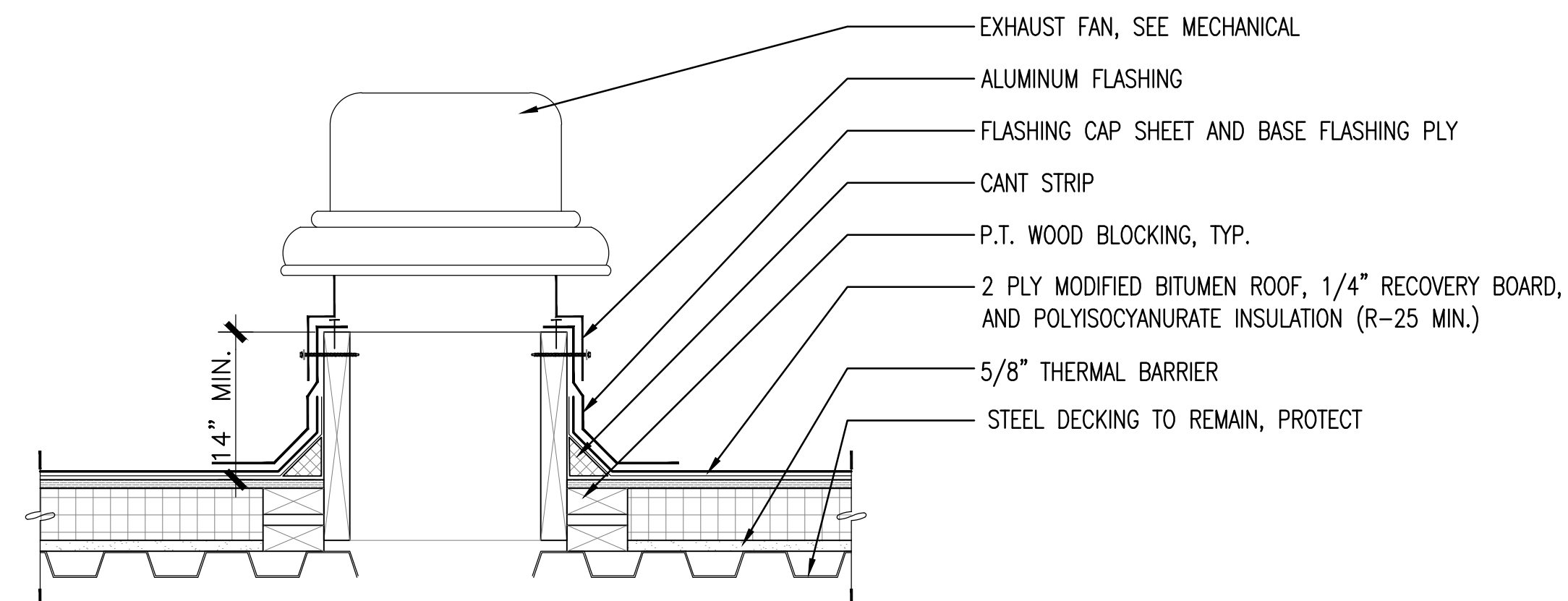
SCALE: AS NOTED	PROJECT NO.: XK11237
MAXIMO WORK ORDER NO. 7375939	
NAVFAC DRAWING NO. 12816261	
SHEET 50 OF 114	
A-502	

DRAWN/REVISED: 10 MAY 2014

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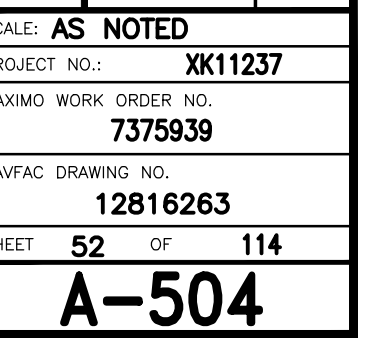
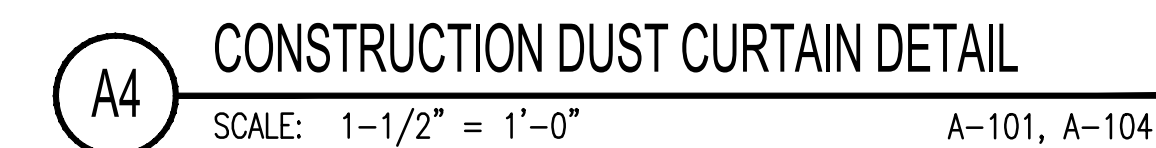
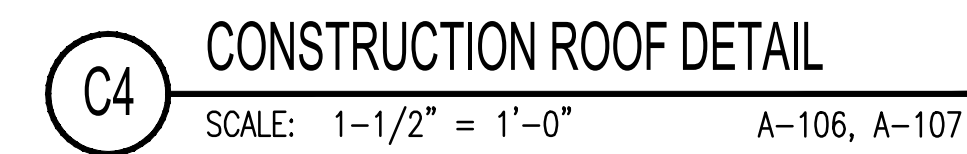
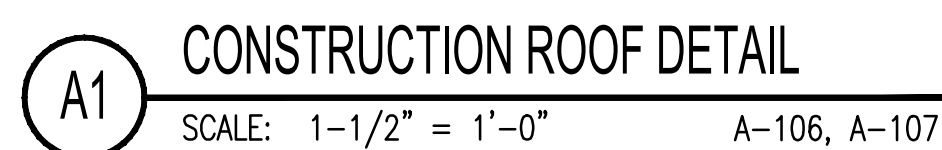


C4 CONSTRUCTION ROOF DETAIL
SCALE: 1-1/2" = 1'-0" A-106



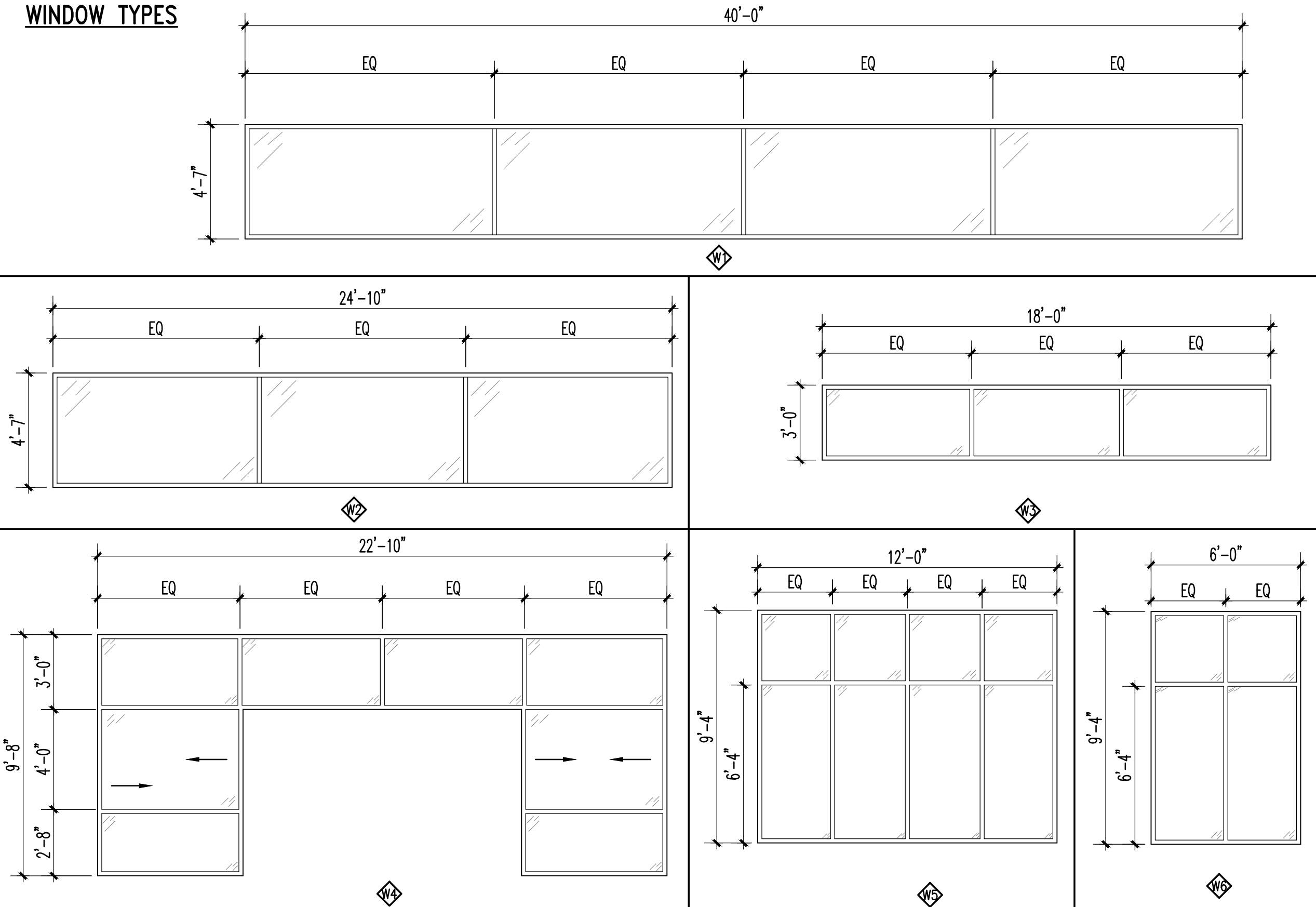
A4 CONSTRUCTION ROOF DETAIL
SCALE: 1-1/2" = 1'-0" A-106, A-107

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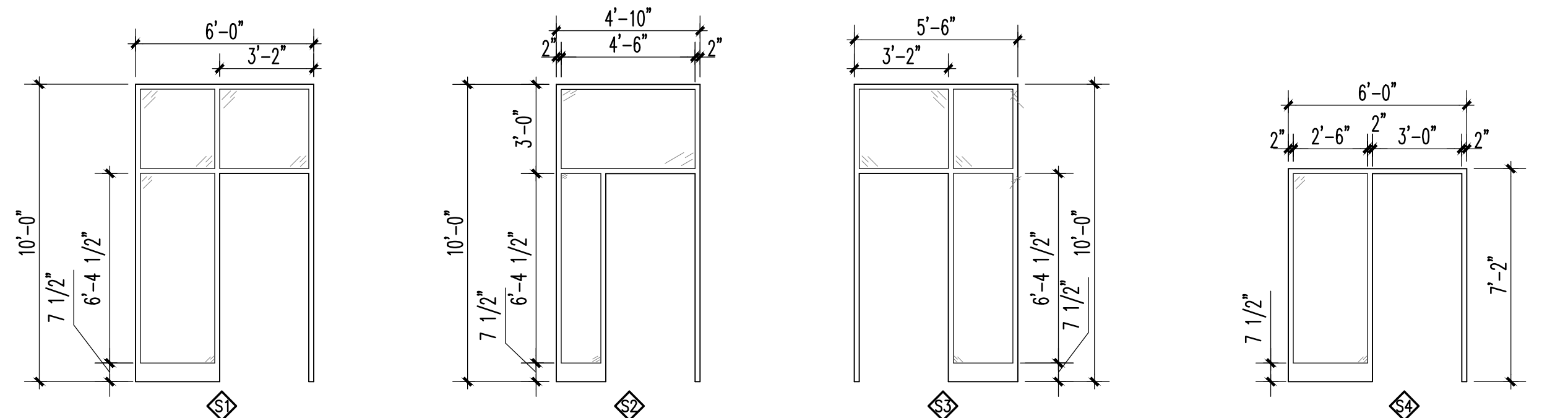
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WINDOW TYPES



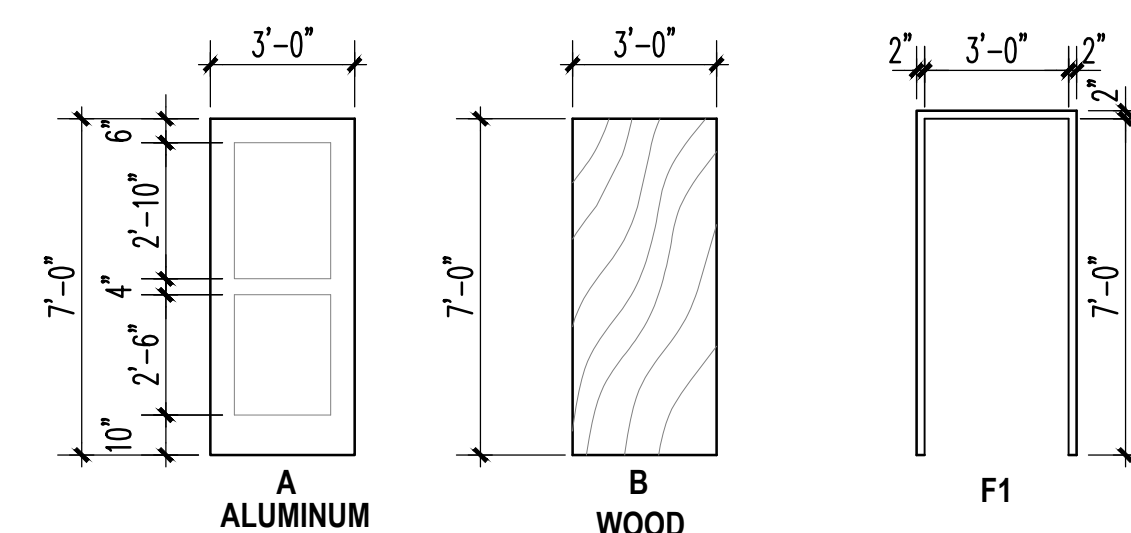
STOREFRONT TYPES

(NOTE: PROVIDE TEMPERED GLAZING FOR ALL GLAZING ADJACENT TO SWINGING DOORS.)



DOOR TYPES

FRAME TYPES



FINISH SCHEDULE -- BASIS OF DESIGN

LEGEND	DESCRIPTION
ACT-1	ACOUSTICAL CEILING TILE- ARMSTRONG CEILING SYSTEMS, CALLA REGULAR LAY-IN, 24"x24", WHITE
ACT-2	ACOUSTICAL CEILING TILE- ARMSTRONG CEILING SYSTEMS, CLEANROOM VL SQUARE LAY-IN, 24"x24", WHITE
LVT	LUXURY VINYL TILE- SHAW JEORGIGI FLAX 90700 18" X 18"
PNT-1	PAINT- SHERWIN WILLIAMS SW 6196, FROSTY WHITE
RB	RESILIENT RUBBER WALL BASE- JOHNSONITE 6" MILLWORK PROFILE-REVEAL, COLOR: 20 CHARCOAL
SS-1	SOLID SURFACE, LG HAUSYS, HI-MACS, L016 LUSTER
GR-1	GROUT, LATICRETE, 57 HOT COCOA (FLOOR TILE GROUT)
GR-2	GROUT, LATICRETE, 41 KASHMIR (WALL TILE GROUT)
T-1	FLOOR TILE, CROSSVILLE, AV247, HAZE UPS, 12"x24"
T-2	WALL TILE, CROSSVILLE, AV243, FOG UPS, 12"x24"
T-3	WALL TILE MOSAIC, CROSSVILLE, SBV1/10103HMOS, WARM GRAYS, 11-7/8"x11-7/8"
TB-1	TILE BASE, CROSSVILLE, AV243, FOG UPS, 6"x12"
SGYP	SUSPENDED GYPSUM BOARD
TP-1	TOILET PARTITION, ASI HDPE METALLIC SILVER 9511 PEBBLE GRAINED
PL-1	PLASTIC LAMINATE- WILSONART 17005K-57, MORRIS OAK

FINISHES INDICATED ARE THE APPROVED BASIS OF DESIGN TO CONVEY COLOR, PATTERN, TEXTURE, AND SALIENT CHARACTERISTICS ONLY. THE LISTING OF MANUFACTURER INFORMATION IS NOT INTENDED TO LIMIT THE SELECTION OF PRODUCT PROVIDED BY OTHER MANUFACTURERS. PRODUCTS MEETING THESE CRITERIA WILL BE CONSIDERED AND MUST BE REVIEWED AND APPROVED BY THE CONTRACTING OFFICER.

FINISH SCHEDULE

NOTE: " - " = NOT APPLICABLE

SPACE	FLOOR	BASE	WALLS				CEILING	
NO.	NAME	MAT	MAT	NORTH MAT	SOUTH MAT	EAST MAT	WEST MAT	REMARKS
101	CLASSROOM	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
102	CLASSROOM	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
103	CORRIDOR	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
104	OFFICE	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
105	CLASSROOM	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
106	OPEN OFFICE	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
106-A	OFFICE	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
107	OFFICE	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
108	MENS HEAD	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
109	WOMENS HEAD	T-1	T-2	T-2	T-2	T-2	T-2	GYP/PT-1
110	JANITOR	T-1	T-2	T-2	T-2	T-2	T-2	GYP/PT-1
111	VENDING	-	-	PNT-1	PNT-1	PNT-1	PNT-1	GYP/PT-1
112	CLASSROOM	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
113	CLASSROOM	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
114	CLASSROOM	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
115	CLASSROOM	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
116	CLASSROOM	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
117	CLASSROOM	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
118	MECHANICAL ROOM	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
119	RUBBER SHOP	-	-	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
120	VESTIBULE	-	-	PNT-1	PNT-1	PNT-1	PNT-1	-
121	OPEN OFFICE	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
122	CORRIDOR	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
123	VESTIBULE	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
124	SUPERVISOR	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
125	ADMIN	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
126	OPEN OFFICE	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
127	OPEN OFFICE	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
127A	OFFICE	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
128	STORAGE	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
129	STORAGE	-	-	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
130	STORAGE	-	-	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
131	OPEN OFFICE	-	-	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
132	LOCKER ROOM	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
133	LOCKER ROOM	T-1	T-2	T-2	T-2	T-2	T-2	GYP/PT-1
134	TOILET	T-1	T-2	T-2	T-2	T-2	T-2	GYP/PT-1
135	MENS HEAD	T-1	T-2	T-2	T-2	T-2	T-2	GYP/PT-1
136	BLAST DOWN	-	-	PNT-1	PNT-1	PNT-1	PNT-1	-
137	GEAR	T-1	T-2	T-2	T-2	T-2	T-2	GYP/PT-1
138	TOILET	T-1	T-2	T-2	T-2	T-2	T-2	GYP/PT-1
139	LOCKER ROOM	T-1	T-2	T-2	T-2	T-2	T-2	GYP/PT-1
140	LOCKER ROOM	T-1	T-2	T-2	T-2	T-2	T-2	GYP/PT-1
141	WOMENS HEAD	T-1	T-2	T-2	T-2	T-2	T-2	GYP/PT-1
142	BREAK ROOM	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
143	COMM. ROOM	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	GYP/PT-1
144	BLAST EQUIPMENT	-	-	PNT-1	PNT-1	PNT-1	PNT-1	-
145	SPRINKLER ROOM	-	-	PNT-1	PNT-1	PNT-1	PNT-1	-
146	ELECTRICAL ROOM	-	-	PNT-1	PNT-1	PNT-1	PNT-1	-
147	PLASTIC MEDIA BLASTING FACILITY	-	-	PNT-1	PNT-1	PNT-1	PNT-1	ACT-2
148	STEAM ROOM	-	-	PNT-1	PNT-1	PNT-1	PNT-1	-
149	VESTIBULE	-	-	PNT-1	PNT-1	PNT-1	PNT-1	-
150	COVERED SPACE	-	-	-	-	-	-	-
201	MEZZANINE	LVT	RB	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1
202	MEZZANINE	-	-	PNT-1	PNT-1	PNT-1	PNT-1	-

DOOR SCHEDULE

NOTE: CONTRACTOR SHALL FIELD VERIFY ALL DOOR AND FRAME DIMENSIONS, AND WALL TYPES IN FIELD PRIOR TO ORDERING UNITS. SEE PLAN LOCATIONS FOR SPECIFIC HANDING AND ORIENTATION.

DOOR DATA	FRAME DATA	DETAILS		
NUM.	TYPE	SIZE	THK.	MAT.
103A	A	3'-0"x7'-0"	1-3/4"	ALUM
103B	A	3'-0"x7'-0"	1-3/4"	ALUM
106A	B	3'-0"x7'-0"	1-3/4"	WOOD
108A	B	3'-0"x7'-0"	1-3/4"	WOOD
109A	B	3'-0"x7'-0"	1-3/4"	WOOD
110A	B	3'-0"x7'-0"	1-3/4"	WOOD
120A	A	3'-0"x7'-0"	1-3/4"	ALUM
120B	A	3'-0"x7'-0"	1-3/4"	ALUM

HEAD	JAMB	SILL	HARDWARE	REMARKS
A3/A-602	A3/A-602	--	HW-1	
A3/A-602	A3/A-602	--	HW-1	
A1/A-602	A1/A-602	--	HW-4	
A1/A-602	A1/A-602	--	HW-2	
A1/A-602	A1/A-602	--	HW-2	
A1/A-602	A1/A-602	--	HW-3	
A3/A-602	A3/A-602	--	HW-1	
A3/A-602	A3/A-602	--	HW-1	

WINDOW SCHEDULE

NOTE: CONTRACTOR SHALL FIELD VERIFY ALL WINDOW ROUGH OPENING DIMENSIONS IN FIELD PRIOR TO ORDERING UNITS.

WINDOW DATA	DETAILS			
MARK	SIZE (wxh)	MATERIAL	FINISH	GLASS
40'-0" X 4'-7"	ALUM	ANODIZED	1" INSUL.	A4/A-602
24'-10" X 4'-7"	ALUM	ANODIZED	1" INSUL.	A4/A-602
18'-0" X 3'-10"	ALUM	ANODIZED	1" INSUL.	A4/A-602
22'-10" X 9'-8"	ALUM	ANODIZED	1" INSUL.	A4/A-602
12'-0" X 9'-4"	ALUM	ANODIZED	1" INSUL.	A4/A-602
6'-0" X 9'-4"	ALUM	ANODIZED	1" INSUL.	A4/A-602

HEAD	JAMB	SILL	REMARKS
A4/A-602	A4/A-602	A4/A-602	-
A4/A-602	A4/A-602	A4/A-602	-
A4/A-602	A4/A-602	A4/A-602	-
A4/A-602	A4/A-602	A4/A-602	-
A4/A-602	A4/A-602	A4/A-602	-
A4/A-602	A4/A-602	A4/A-602	-

STOREFRONT SCHEDULE

NOTE: CONTRACTOR SHALL FIELD VERIFY ALL STOREFRONT DIMENSIONS IN FIELD PRIOR TO ORDERING UNITS.

WINDOW DATA	DETAILS			
MARK	SIZE (wxh)	MATERIAL	FINISH	GLASS
6'-0" X 10'-0"	ALUM	ANODIZED	1" INSUL.	B3/A-601
4'-10" X 10'-0"	ALUM	ANODIZED	1" INSUL.	B3/A-601
5'-6" X 10'-0"	ALUM	ANODIZED	1" INSUL.	B3/A-601
6'-0" X 7'-2"	ALUM	ANODIZED	1" INSUL.	B3/A-601

HEAD	JAMB	SILL	REMARKS
B3/A-601	B3/A-601	-	-
B3/A-601	B3/A-601	-	-
B3/A-601	B3/A-601	-	-
B3/A-601	B3/A-601	-	-



U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE
BUILDING 4034, FRC-E
WINDOW AND STOREFRONT SCHEDULE

SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO. 7375939
NAVFAC DRAWING NO. 12816264
SHEET 53 OF 114
A-601



NRW ENGINEERING
Structural Consultants
748 Lord Dunmore Drive, Suite 101
Virginia Beach, VA 23464
Phone 757-474-0612
Fax 757-474-0919

APPROVED: _____
FOR COMMANDER NAVFAC
ACTIVITY: _____
SATISFACTORY TO: _____
DES: _____
CHK: _____

APPROVED: _____
DATE: _____

APPROVED: _____
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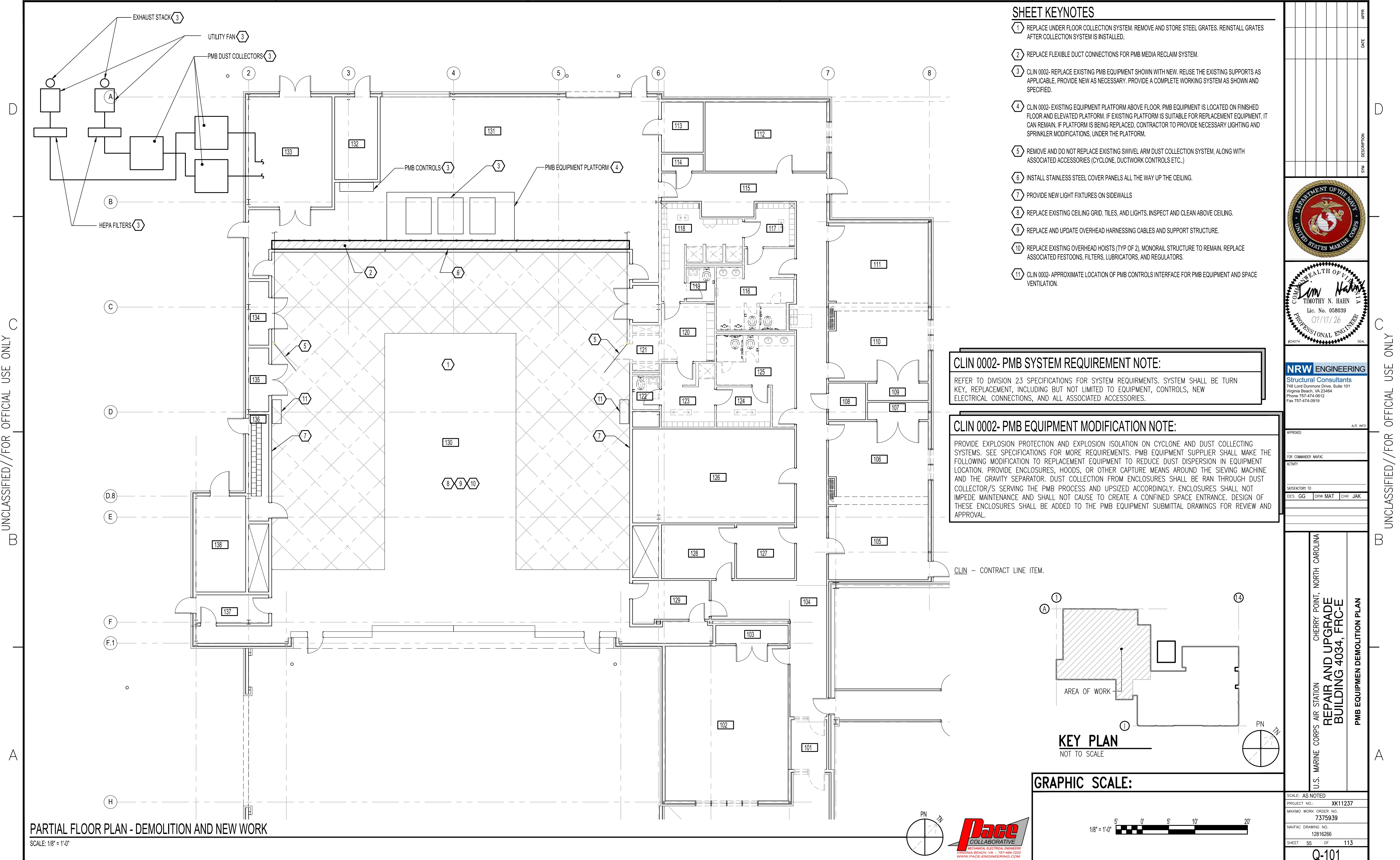
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DATE: _____

APPROVED: _____
DATE: _____

APPROVED: _____
DATE: _____



A3 ALUM. DOOR DETAIL AT CAVITY WALL
SCALE: 1-1/2" = 1'-0" A-601



SHEET KEYNOTES

- 1 REPLACE UNDER FLOOR COLLECTION SYSTEM. REMOVE AND STORE STEEL GRATES. REINSTALL GRATES AFTER COLLECTION SYSTEM IS INSTALLED.
- 2 REPLACE FLEXIBLE DUCT CONNECTIONS FOR PMB MEDIA RECLAIM SYSTEM.
- 3 CLIN 0002- REPLACE EXISTING PMB EQUIPMENT SHOWN WITH NEW. REUSE THE EXISTING SUPPORTS AS APPLICABLE, PROVIDE NEW AS NECESSARY. PROVIDE A COMPLETE WORKING SYSTEM AS SHOWN AND SPECIFIED.
- 4 CLIN 0002- EXISTING EQUIPMENT PLATFORM ABOVE FLOOR. PMB EQUIPMENT IS LOCATED ON FINISHED FLOOR AND ELEVATED PLATFORM. IF EXISTING PLATFORM IS SUITABLE FOR REPLACEMENT EQUIPMENT, IT CAN REMAIN. IF PLATFORM IS BEING REPLACED, CONTRACTOR TO PROVIDE NECESSARY LIGHTING AND SPRINKLER MODIFICATIONS, UNDER THE PLATFORM.
- 5 REMOVE AND DO NOT REPLACE EXISTING SWIVEL ARM DUST COLLECTION SYSTEM, ALONG WITH ASSOCIATED ACCESSORIES (CYCLONE, DUCTWORK CONTROLS ETC.)
- 6 INSTALL STAINLESS STEEL COVER PANELS ALL THE WAY UP THE CEILING.
- 7 PROVIDE NEW LIGHT FIXTURES ON SIDEWALLS
- 8 REPLACE EXISTING CEILING GRID, TILES, AND LIGHTS. INSPECT AND CLEAN ABOVE CEILING.
- 9 REPLACE AND UPDATE OVERHEAD HARNESSING CABLES AND SUPPORT STRUCTURE.
- 10 REPLACE EXISTING OVERHEAD HOISTS (TYP OF 2). MONORAIL STRUCTURE TO REMAIN. REPLACE ASSOCIATED FESTOONS, FILTERS, LUBRICATORS, AND REGULATORS.
- 11 CLIN 0002- APPROXIMATE LOCATION OF PMB CONTROLS INTERFACE FOR PMB EQUIPMENT AND SPACE VENTILATION.

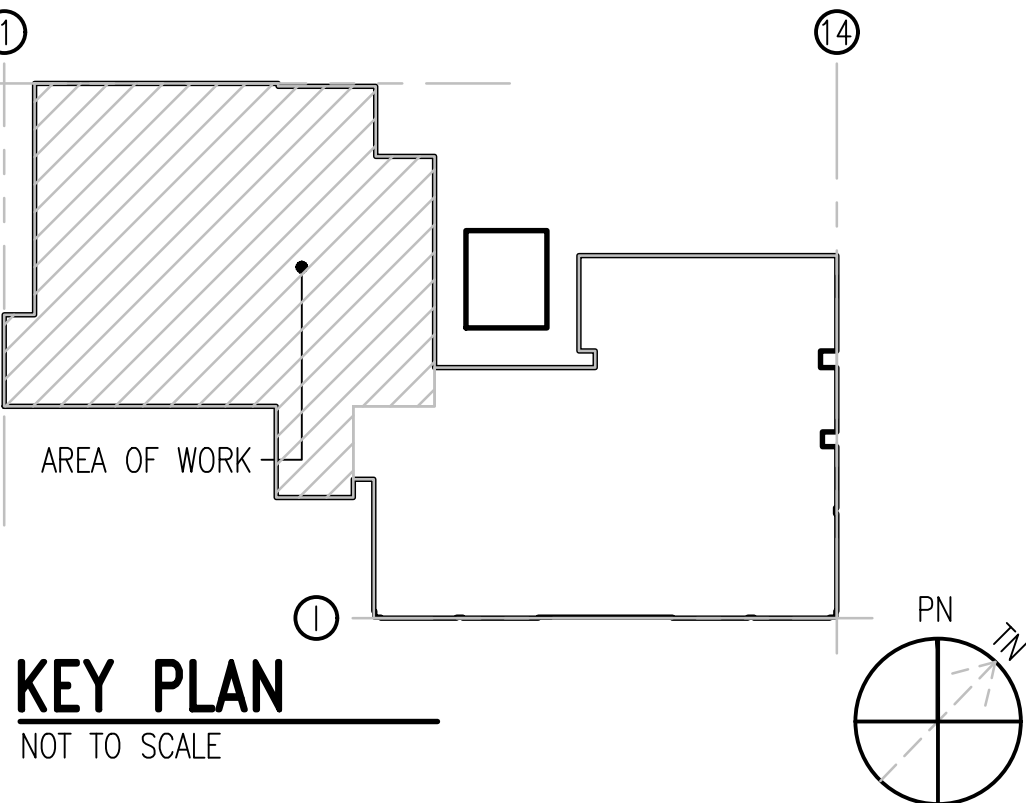
CLIN 0002- PMB SYSTEM REQUIREMENT NOTE:

REFER TO DIVISION 23 SPECIFICATIONS FOR SYSTEM REQUIREMENTS. SYSTEM SHALL BE TURN KEY, REPLACEMENT, INCLUDING BUT NOT LIMITED TO EQUIPMENT, CONTROLS, NEW ELECTRICAL CONNECTIONS, AND ALL ASSOCIATED ACCESSORIES.

CLIN 0002- PMB EQUIPMENT MODIFICATION NOTE:

PROVIDE EXPLOSION PROTECTION AND EXPLOSION ISOLATION ON CYCLONE AND DUST COLLECTING SYSTEMS. SEE SPECIFICATIONS FOR MORE REQUIREMENTS. PMB EQUIPMENT SUPPLIER SHALL MAKE THE FOLLOWING MODIFICATION TO REPLACEMENT EQUIPMENT TO REDUCE DUST DISPERSION IN EQUIPMENT LOCATION. PROVIDE ENCLOSURES, HOODS, OR OTHER CAPTURE MEANS AROUND THE SIEVING MACHINE AND THE GRAVITY SEPARATOR. DUST COLLECTION FROM ENCLOSURES SHALL BE RAN THROUGH DUST COLLECTOR/S SERVING THE PMB PROCESS AND UPSIZED ACCORDINGLY. ENCLOSURES SHALL NOT IMPEDE MAINTENANCE AND SHALL NOT CAUSE TO CREATE A CONFINED SPACE ENTRANCE. DESIGN OF THESE ENCLOSURES SHALL BE ADDED TO THE PMB EQUIPMENT SUBMITTAL DRAWINGS FOR REVIEW AND APPROVAL.

CLIN - CONTRACT LINE ITEM.



GRAPHIC SCALE:



APPROVED	DATE	DESCRIPTION
Structural Consultants 748 Lord Dunmore Drive, Suite 101 Virginia Beach, VA 23464 Phone 757-474-0812 Fax 757-474-0919		
APPROVED	A/E: NRW	
FOR COMMANDER NAVFAC	ACTIVITY	
SATISFACTORY TO	DES: GG	DRW: MAT
	CHK: JAK	
U.S. MARINE CORPS AIR STATION CHERRY POINT, NORTH CAROLINA REPAIR AND UPGRADE BUILDING 4034, FRC-E PMB EQUIPMENT DEMOLITION PLAN		
SCALE: AS NOTED		
PROJECT NO.: XK11237		
MAXIMO WORK ORDER NO. 7375939		
NAVFAC DRAWING NO. 12816266		
SHEET 55 OF 113		
Q-101		
DRAWN/REVISED: 10 MAY 2014		

WALL WORK NOTE:

PLUMBING CONTRACTOR MUST REMOVE PORTIONS OF EXISTING WALLS AS REQUIRED FOR ACCESS TO EXISTING PLUMBING PIPING FOR REMODELING WORK. CONTRACTOR MUST PATCH TO MATCH EXISTING ADJACENT CONDITIONS AND RATINGS. REFER TO ARCHITECTURAL PLAN FOR PATCHING DETAILS AND NOTES.

ADDITIONAL WORK SCOPE NOTE:

CONTRACTOR IS RESPONSIBLE TO CORRECT DAMAGES TO ANY EQUIPMENT OR MATERIAL IN PLACE DURING EXECUTION OF THEIR WORK. CONTRACTOR IS RESPONSIBLE FOR REPLACING CEILING GRIDS AND CEILING TILES DAMAGED DURING CONSTRUCTION, AT NO COST THE OWNER.

FIELD COORDINATION NOTE:

CONTRACTOR MUST VERIFY ALL POINTS OF CONNECTION TO EXISTING SYSTEMS, PRIOR TO BEGINNING ANY WORK. ANY CONDITIONS FOUND THAT WILL PROHIBIT MAKING THE INDICATED CONNECTIONS OR EXECUTION OF THE WORK SHALL BE REPORTED TO THE CONTRACTING OFFICER IMMEDIATELY. FAILURE TO COMPLY WITH THIS DIRECTION WILL NOT CONSTITUTE THE BASIS OF A CHANGE ORDER FOR RESOLUTION.

CONTRACTOR MUST COORDINATE CLOSELY WITH ALL TRADES TO ENSURE PLUMBING IS INSTALLED WITHOUT CONFLICTING WITH OTHER BUILDING SYSTEMS. CONTRACTOR MUST NOT BEGIN WORK IN ANY PORTION OF BUILDING WITHOUT ENSURING COMPLETE COORDINATION BETWEEN TRADES. REFER TO ARCHITECTURAL DRAWINGS FOR CONSTRUCTIONS DETAILS.

PLUMBING COORDINATION NOTE:

CONTRACTOR MUST VERIFY AND COORDINATE THE EXACT LOCATION OF ALL MECHANICAL, ELECTRICAL, PLUMBING, AND STRUCTURAL SYSTEMS AND COMPONENTS (EXISTING AND NEW) PRIOR TO COMMENCING WORK. THE FAILURE TO COMPLY WITH THIS DIRECTION MUST NOT CONSTITUTE THE BASIS FOR A CHANGE ORDER SHOULD REWORK BE REQUIRED.

ANY CONDITIONS FOUND THAT WILL PROHIBIT MAKING THE FINAL CONNECTIONS(S) OR EXECUTIONS OF THE WORK MUST BE REPORTED TO THE CONTRACTING OFFICER IMMEDIATELY.

MANUFACTURER'S RECOMMENDATIONS:

ALL MATERIAL AND EQUIPMENT MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION FOR THE INTENDED PURPOSE. USE THE MORE STRINGENT METHODS WHEN MANUFACTURER'S RECOMMENDATIONS, PLANS & SPECIFICATION REQUIREMENTS DIFFER. BRING ANY CONFLICTS BETWEEN MANUFACTURER'S RECOMMENDATIONS, PLANS & SPECIFICATION REQUIREMENTS TO THE GOVERNMENT'S ATTENTION.

SAW CUT NOTE:

CONTRACTOR MUST VERIFY PIPE INVERTS PRIOR TO SAW CUTTING. CONTRACTOR MUST SAW CUT, REMOVE AND PATCH CONCRETE FLOOR AS REQUIRED TO PERFORM WORK INDICATED. PATCH FLOOR TO MATCH ADJACENT EXISTING CONDITIONS AND NEW CONDITIONS.

GENERAL NOTES

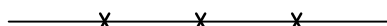
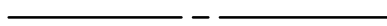
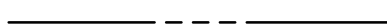
1. ALL PLUMBING, LABOR, AND MATERIALS MUST COMPLY WITH CONSTRUCTION DOCUMENTS.
2. ALL OPENINGS IN CEILINGS & PLENUM WALLS FOR PLUMBING PIPES MUST BE SEALED AIR TIGHT.
3. IT IS THE INTENTION OF THESE DRAWINGS TO COVER ALL WORK & MATERIAL FOR A COMPLETE INSTALLATION, ANY EQUIPMENT, PLUMBING FIXTURE, TRIM HARDWARE &/OR DEVICES USUALLY UTILIZED IN THE CLASS OF WORK, THOUGH NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT WHICH MAY BE NECESSARY FOR THE SATISFACTORY COMPLETION OF THE WORK (AS DETERMINED BY THE CONTRACTING OFFICER) MUST BE FURNISHED & INSTALLED BY THE CONTRACTOR AS PART OF HIS TOTAL WORK.
4. THE CONTRACTOR MUST VISIT THE SITE PRIOR TO BID AND THOROUGHLY FAMILIARIZE HIMSELF/HERSELF WITH THE EXISTING CONDITIONS. NOT ALL EQUIPMENT AND APPURTENANCES ARE SHOWN. FAILURE TO FOLLOW THIS STEP SHALL NOT BE A BASIS FOR CHANGE ORDERS.
5. SEAL AROUND ALL WALL PENETRATIONS AIR TIGHT & FILL ANY VOIDS.
6. CONTRACTOR TO PROVIDE A VIDEO OF ALL SEWER LINES VERIFYING THEY ARE CLEAR OF DEBRIS/MATTER PRIOR TO PROJECT CLOSEOUT. PROVIDE DVD TO CONTRACTING OFFICER FOR REVIEW.
7. IF THIS CONTRACTOR SHOULD ELECT TO PROPOSE ANY EQUIPMENT THAT HAS DIFFERENT PHYSICAL OR ELECTRICAL CHARACTERISTICS, ETC. WHEN COMPARED TO THE BASIS OF DESIGN EQUIPMENT, THIS CONTRACTOR IS RESPONSIBLE FOR COORDINATING THESE CHANGES WITH THE OTHER TRADES PRIOR TO ORDERING OF EQUIPMENT. IF THERE SHOULD BE ANY ADDITIONAL WORK INCURRED BY THE OTHER TRADES AS A RESULT OF THIS CONTRACTOR'S EQUIPMENT SELECTION, ALL COSTS ASSOCIATED WITH THE ADDITIONAL WORK MUST BE BORNE BY THIS CONTRACTOR.

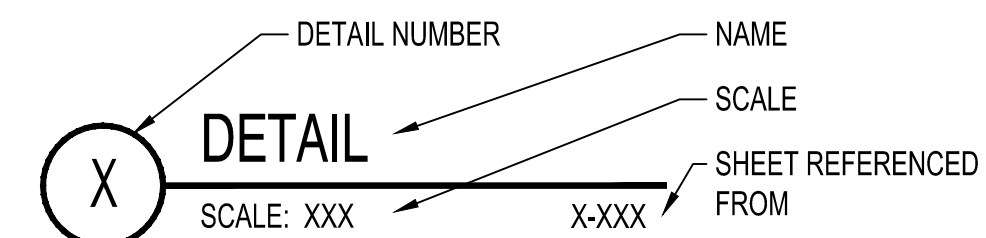
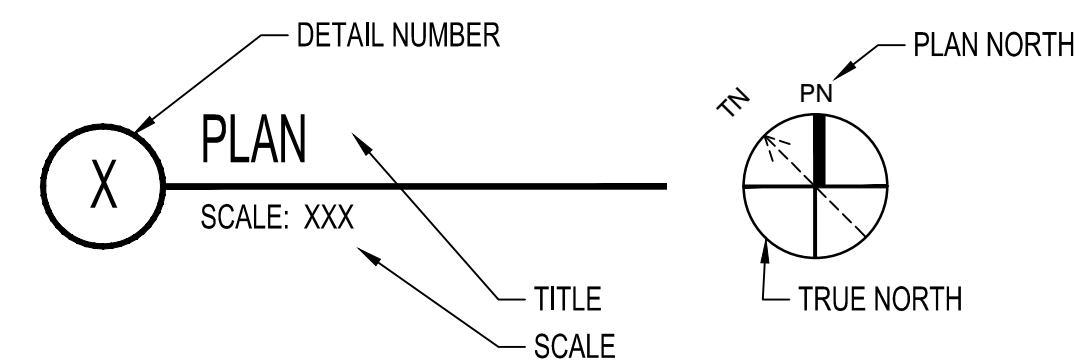
FIXTURE HW DISCHARGE TEMPERATURES

PLUMBING FIXTURE	MAXIMUM DISCHARGE TEMPERATURE	REFERENCE STANDARD
PUBLIC HAND-WASHING FACILITIES	>85°F & <110°F	ASSE 1070
MULTIPLE (GANG) SHOWERS	≤120°F	ASSE 1016 OR CSA B125

NOTE: PROVIDE LISTED TEMPERING DEVICE FOR EACH FIXTURE PER TABLE.

LEGEND & ABBREVIATIONS

	EXISTING PIPING TO REMAIN	AC	ABOVE CEILING	MAX	MAXIMUM
	EXISTING PIPING TO BE REMOVED	ADA	AMERICANS WITH DISABILITIES ACT COMPLIANT	NIC	NOT IN CONTRACT
	DOMESTIC COLD WATER (CW)	ASSE	AMERICAN SOCIETY OF SANITARY ENGINEERING	<u>P-#</u>	PLUMBING FIXTURE MARK
	DOMESTIC HOT WATER (HW)			RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
	DOMESTIC HOT WATER RETURN (HWR)			SFU	SUPPLY FIXTURE UNIT
	SANITARY WASTE PIPE (WP)	BF	BELOW FLOOR	TEMP	TEMPERATURE
	PIPE TURN UP	BTU	BRITISH THERMAL UNIT	TYP	TYPICAL
	PIPE TURN DOWN (DN)	DFU	DRAINAGE FIXTURE UNIT	W/	WITH
	PIPE CAPPED	ETR	EXISTING TO REMAIN	WC	WATER COLUMN/WATER CLOSET
	HOSE BIBB (HB)	EXIST	EXISTING	WHA	WATER HAMMER ARRESTOR
	WALL CLEAN OUT (WCO)	FT	FLUSH TANK/FEET	<u>WH-#</u>	WATER HEATER MARK
	BALANCING VALVE (BV)	FV	FLUSH VALVE	WM	WALL MOUNTED
	BALL VALVE (BV)	GPH	GALLONS PER HOUR	°	DEGREE
	CHECK VALVE (CV)	GPM	GALLONS PER MINUTE	Ø	PHASE/DIAMETER
	FLOOR CLEAN OUT (FCO)	LAV	LAVATORY		
	FLOOR DRAIN (FD)				
	ACCESS PANEL (AP)				
	VENT THROUGH ROOF (VTR)				
	KEYNOTE DESIGNATION				
	WATER HAMMER ARRESTOR				



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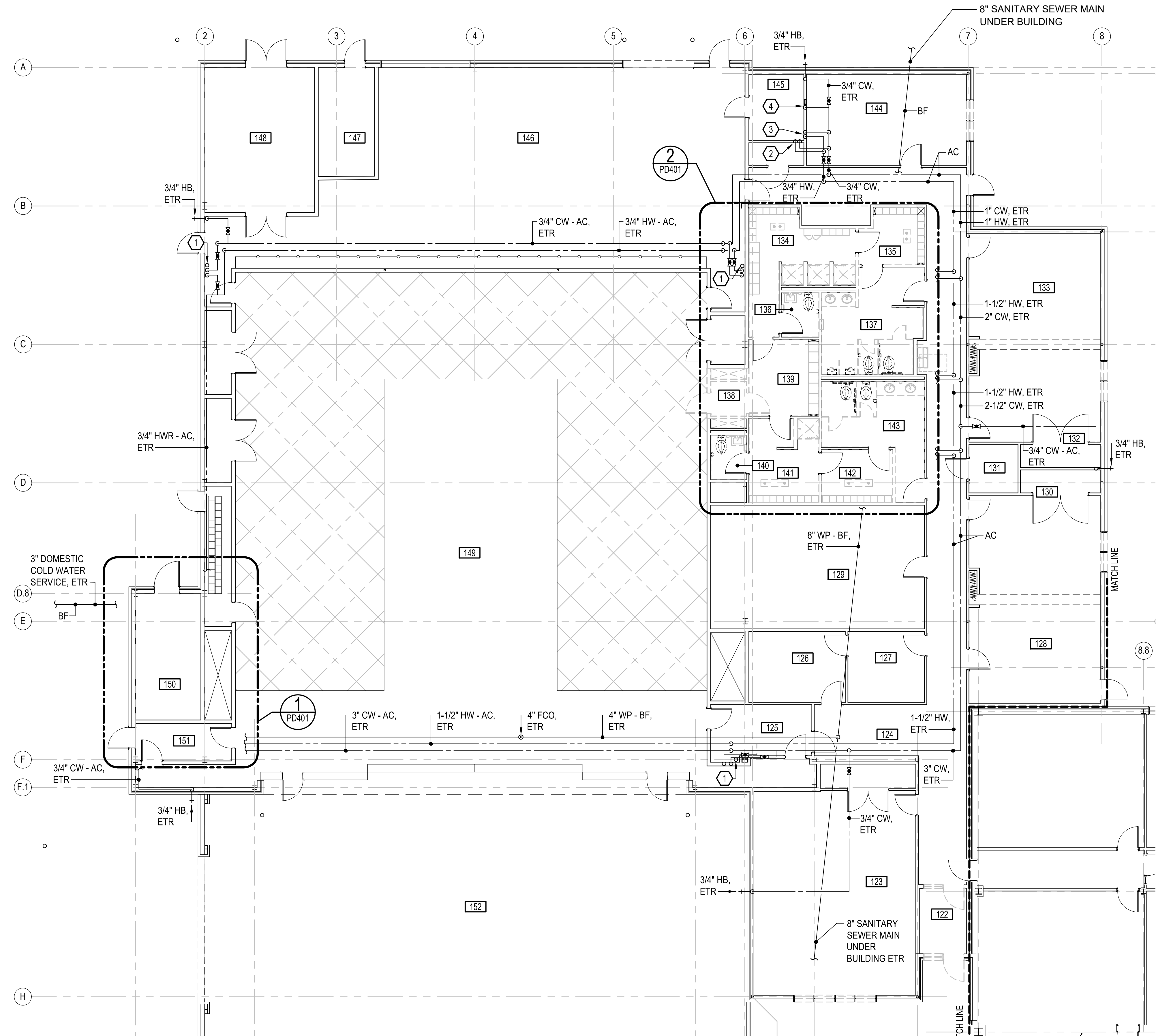
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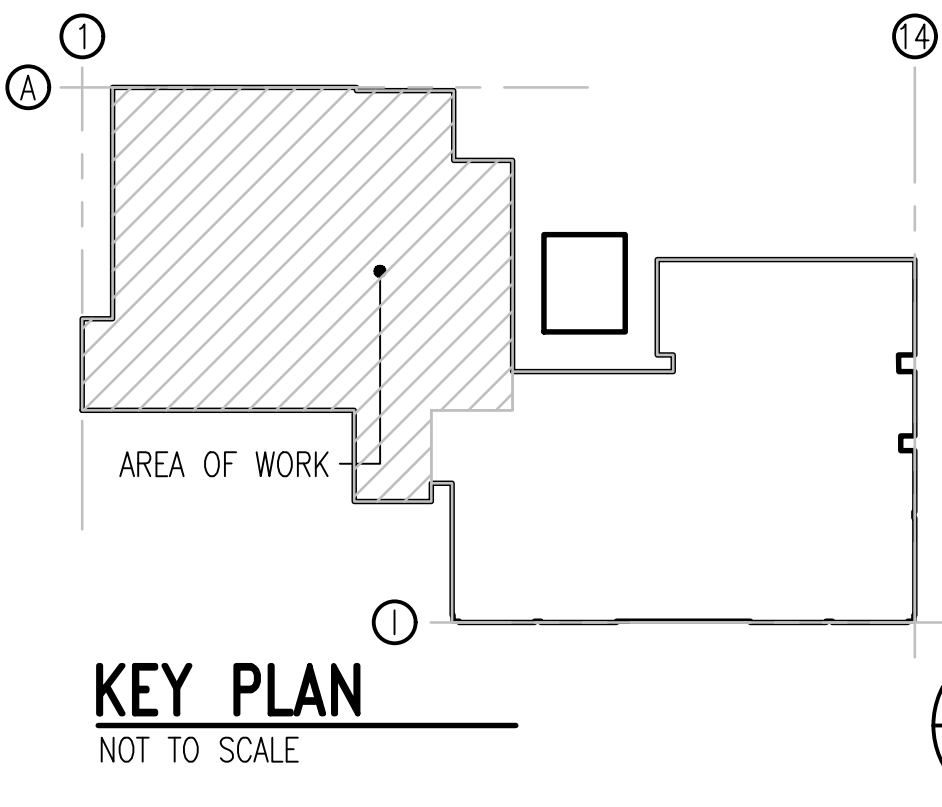
DEMOLITION PARTIAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

- 1 EXISTING EMERGENCY EYE WASH TO REMAIN.
- 2 EXISTING 1/2" CW AND 1/2" HW DOWN TO EXISTING SERVICE SINK, TO REMAIN.
- 3 EXISTING 1/2" CW AND 1/2" DOWN TO EXISTING KITCHEN SINK, TO REMAIN.
- 4 EXISTING 1/2" CW DOWN TO EXISTING ICE MAKER BOX, TO REMAIN.

ROOM SCHEDULE

122	VESTIBULE
123	TRAINING
124	CORRIDOR
125	VESTIBULE
126	SUPERVISOR
127	ADMIN
128	TRAINING
129	TRAINING OFFICE
130	TRAINING
131	STORAGE
132	TRAINING
133	TRAINING
134	LOCKER ROOM
135	LOCKER ROOM
136	TOILET
137	MENS ROOM
138	BLAST DOWN
139	GEAR
140	TOILET
141	LOCKER ROOM
142	LOCKER ROOM
143	WOMENS ROOM
144	BREAK ROOM
145	COMM
146	BLAST EQUIPMENT
147	SPRINKLER
148	ELECTRICAL
149	BLASTING ENCLOSURE
150	STEAM ROOM
151	VESTIBULE
152	COVERED SPACE
153	GEAR STORAGE



GRAPHIC SCALE:



APPR
DATE
DESCRIPTION
SYN

DEPARTMENT OF THE NAVY
UNITED STATES MARINE CORPS

COMMONWEALTH OF VIRGINIA
GINTARAS GZLANIS
Lic. No. 046495
01/11/26
PROFESSIONAL ENGINEER
#24074

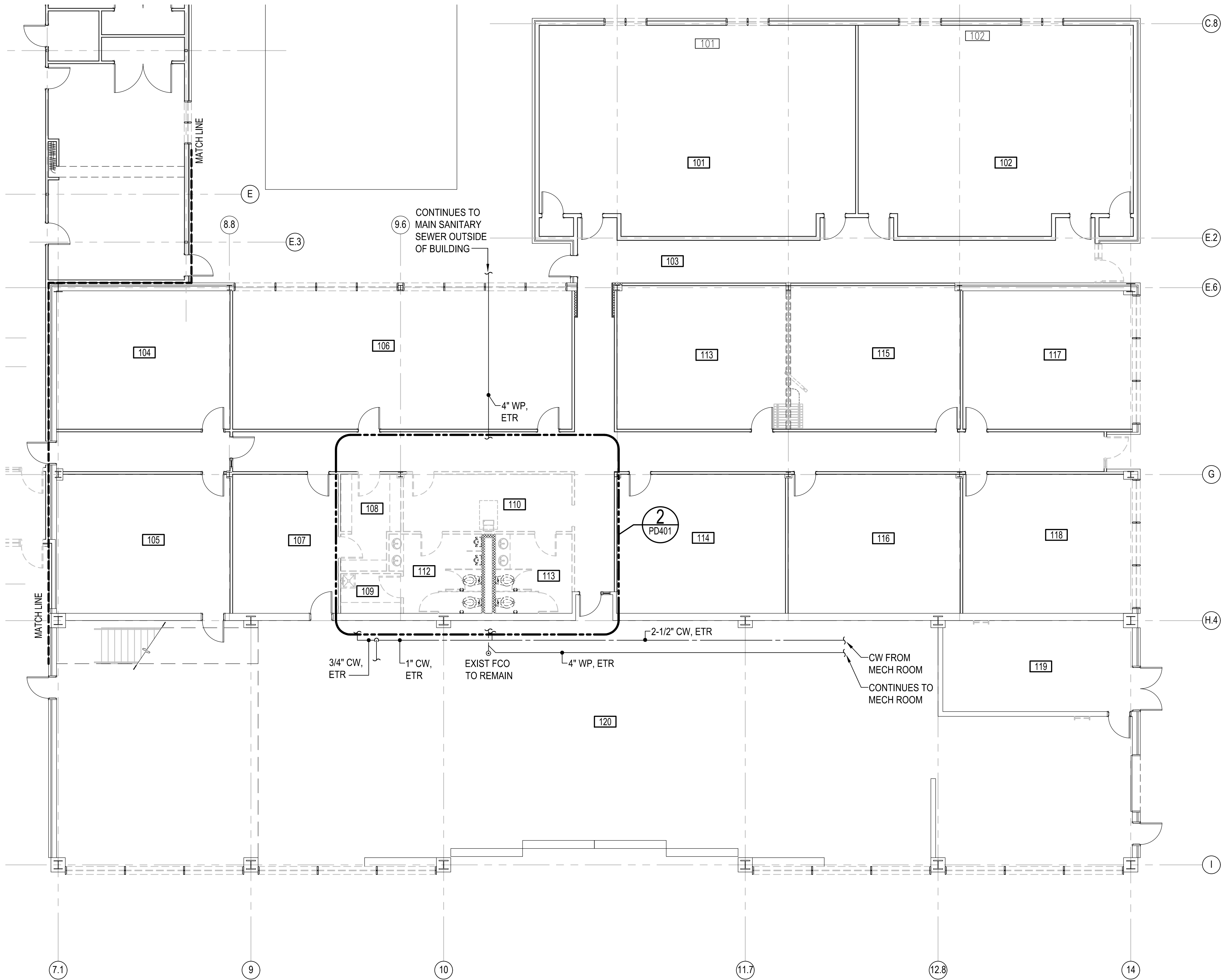
NRW ENGINEERING
Structural Consultants
748 Lord Dunmore Drive, Suite 101
Virginia Beach, VA 23464
Phone 757-474-0812
Fax 757-474-0919

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO
DES HAM DRW HAM CHK GG

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE
BUILDING 4034, FRC-E
PLUMBING DEMOLITION PARTIAL FLOOR PLAN
SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO.
7375939
NAVFAC DRAWING NO.
12816268
SHEET 57 OF 113
PD101
DRAWING REVISION: 10 MAY 2014

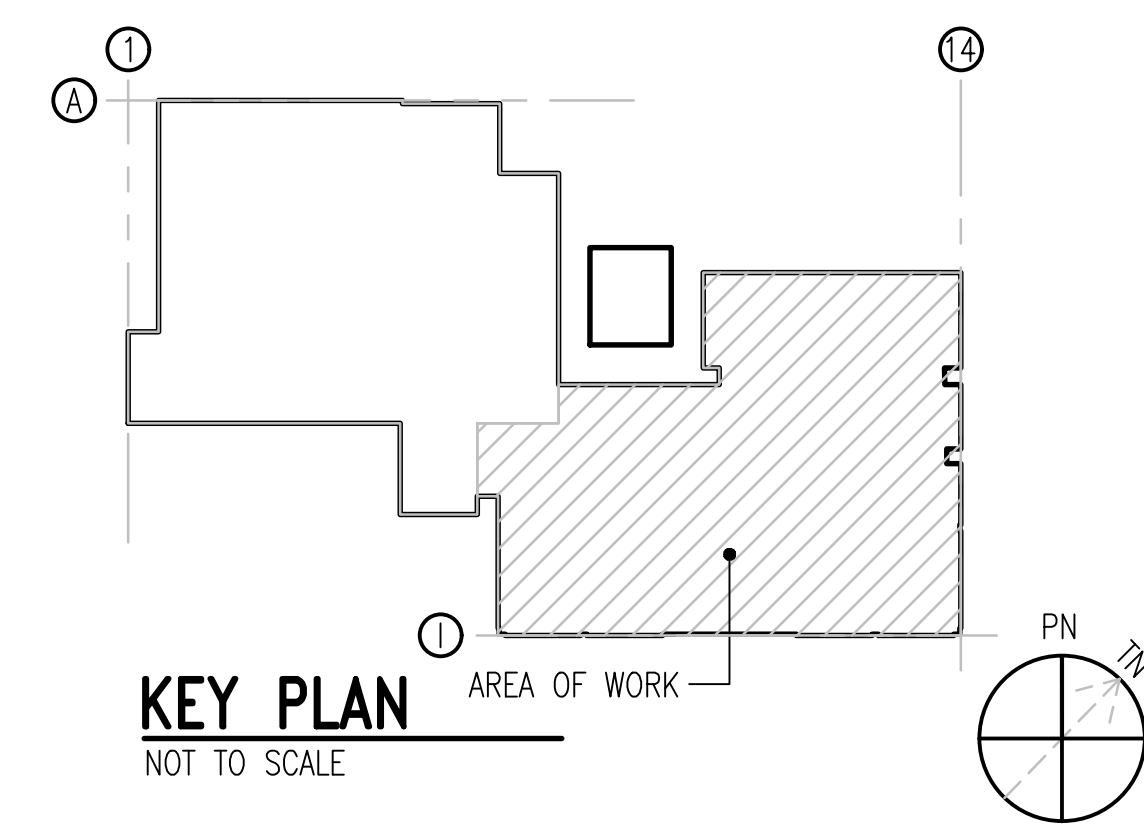
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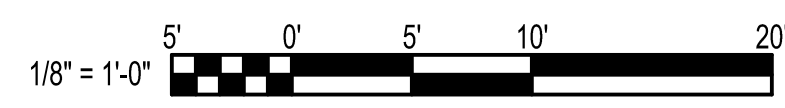


DEMOLITION PARTIAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

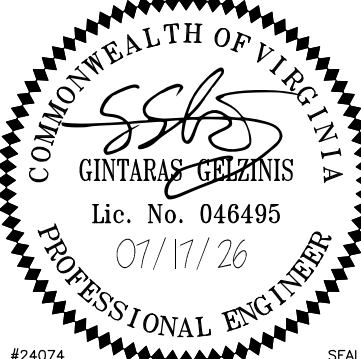
ROOM SCHEDULE	
101	CLASSROOM
102	CLASSROOM
103	CORRIDOR
104	OFFICE
105	CLASSROOM
106	OPEN OFFICE
107	OFFICE
108	STORAGE
109	JANITORS CLOSET
110	BREAK AREA
111	MENS ROOM
112	WOMANS ROOM
113	CLASSROOM
114	CLASSROOM
115	CLASSROOM
116	CLASSROOM
117	CLASSROOM
118	CLASSROOM
119	MECHANICAL ROOM
120	RUBBER SHOP



GRAPHIC SCALE:



APPR
DATE
DESCRIPTION
SYN



NRW ENGINEERING
Structural Consultants
748 Lord Dunmore Drive, Suite 101
Virginia Beach, VA 23464
Phone 757-474-0512
Fax 757-474-0919

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FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO
DES HAM DRW HAM CHK GG

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
**REPAIR AND UPGRADE
BUILDING 4034, FRC-E**
PLUMBING DEMOLITION PARTIAL FLOOR PLAN

SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO.: 7375939
NAVFAC DRAWING NO.: 12816269
SHEET 58 OF 113
PD102
DRAWING REVISION: 10 MAY 2014

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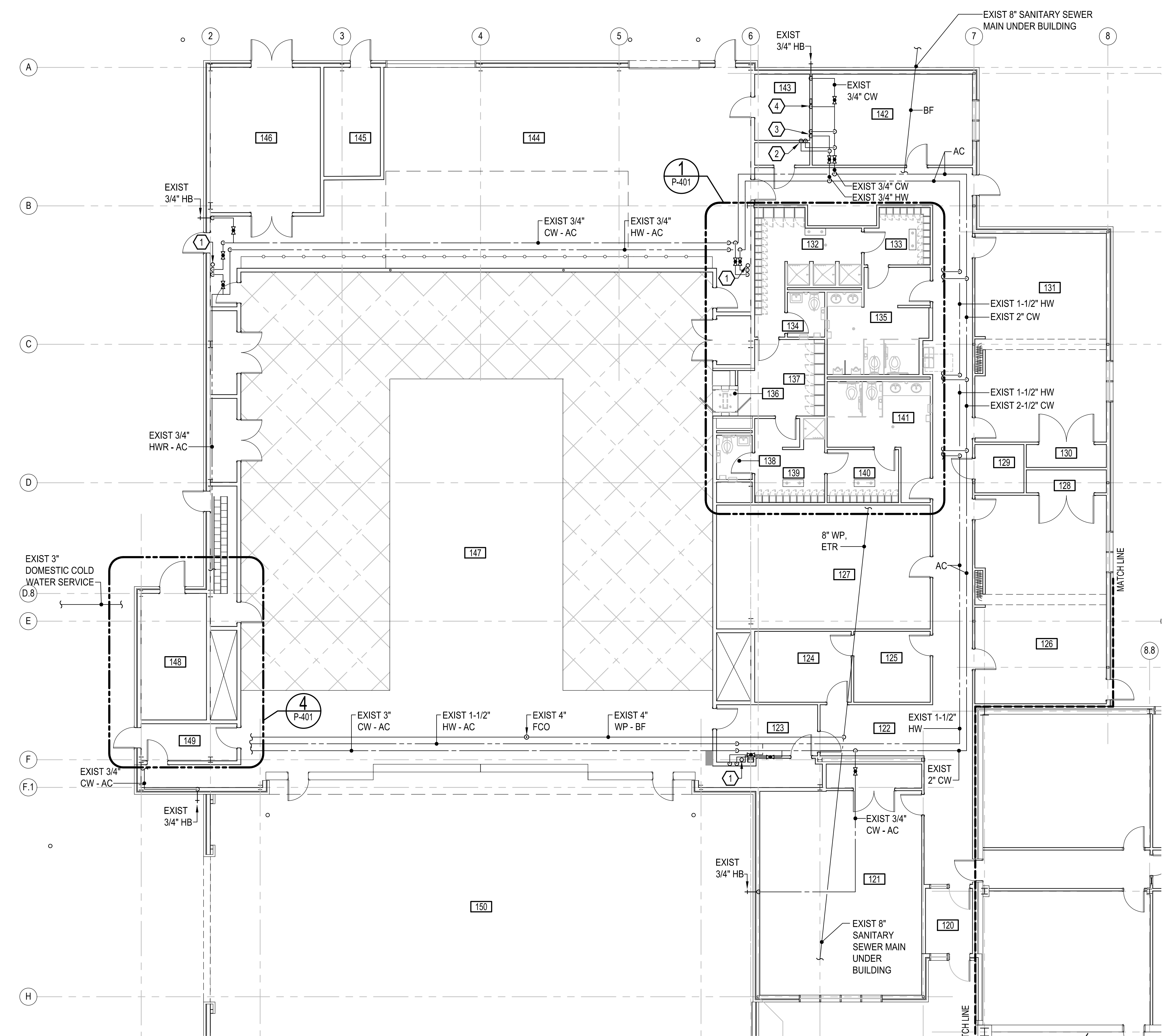
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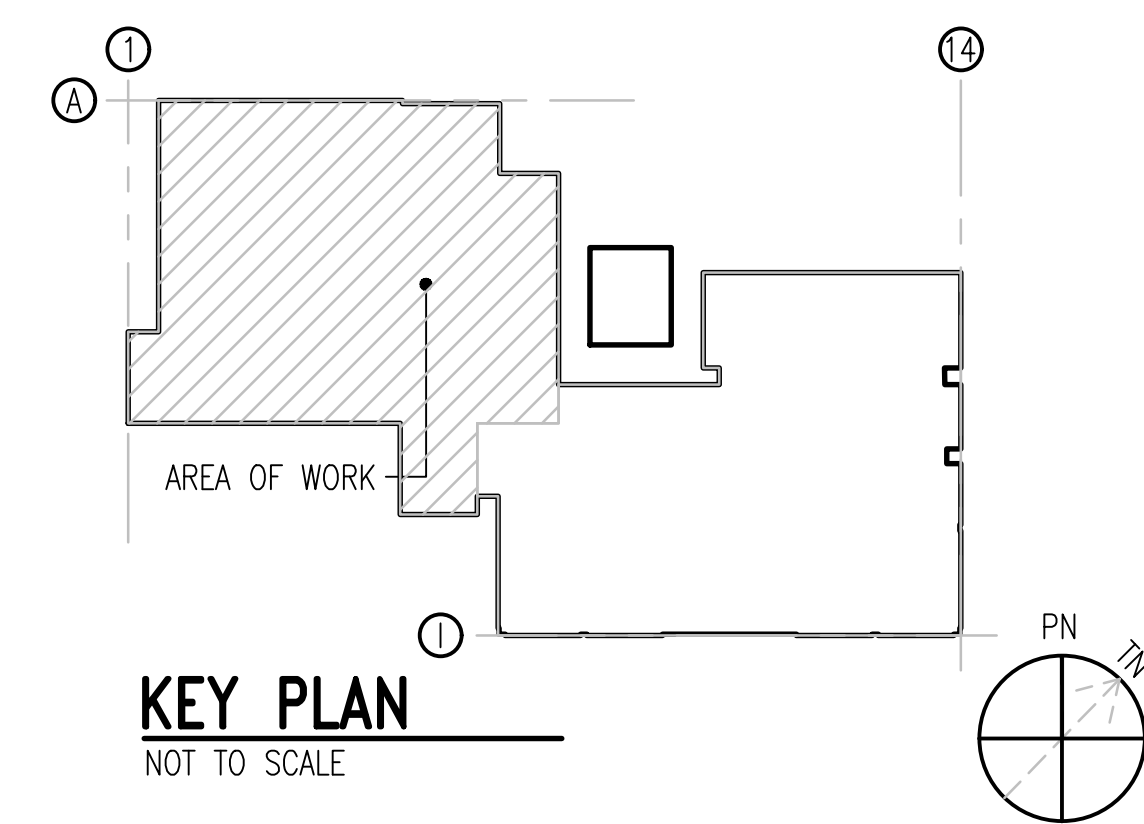


SHEET KEYNOTES

- 1 EXISTING EMERGENCY EYE WASH.
- 2 EXISTING SERVICE SINK.
- 3 EXISTING KITCHEN SINK.
- 4 EXISTING ICE MAKER BOX.

ROOM SCHEDULE

120	VESTIBULE
121	OPEN OFFICE
122	CORRIDOR
123	VESTIBULE
124	SUPERVISOR
125	ADMIN
126	OPEN OFFICE
127	OPEN OFFICE
128	STORAGE
129	STORAGE
130	STORAGE
131	OPEN OFFICE
132	LOCKER ROOM
133	LOCKER ROOM
134	TOILET
135	MENS HEAD
136	BLAST DOWN
137	GEAR
138	TOILET
139	LOCKER ROOM
140	LOCKER ROOM
141	WOMENS HEAD
142	BREAK ROOM
143	COMM
144	BLAST EQUIPMENT
145	SPRINKLER
146	ELECTRICAL
147	PLASTIC MEDIA BLASTING FACILITY
148	STEAM ROOM
149	VESTIBULE
150	COVERED SPACE



NEW WORK PARTIAL FLOOR PLAN

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



GRAPHIC SCALE:



APPR

DATE

DESCRIPTION

SYN

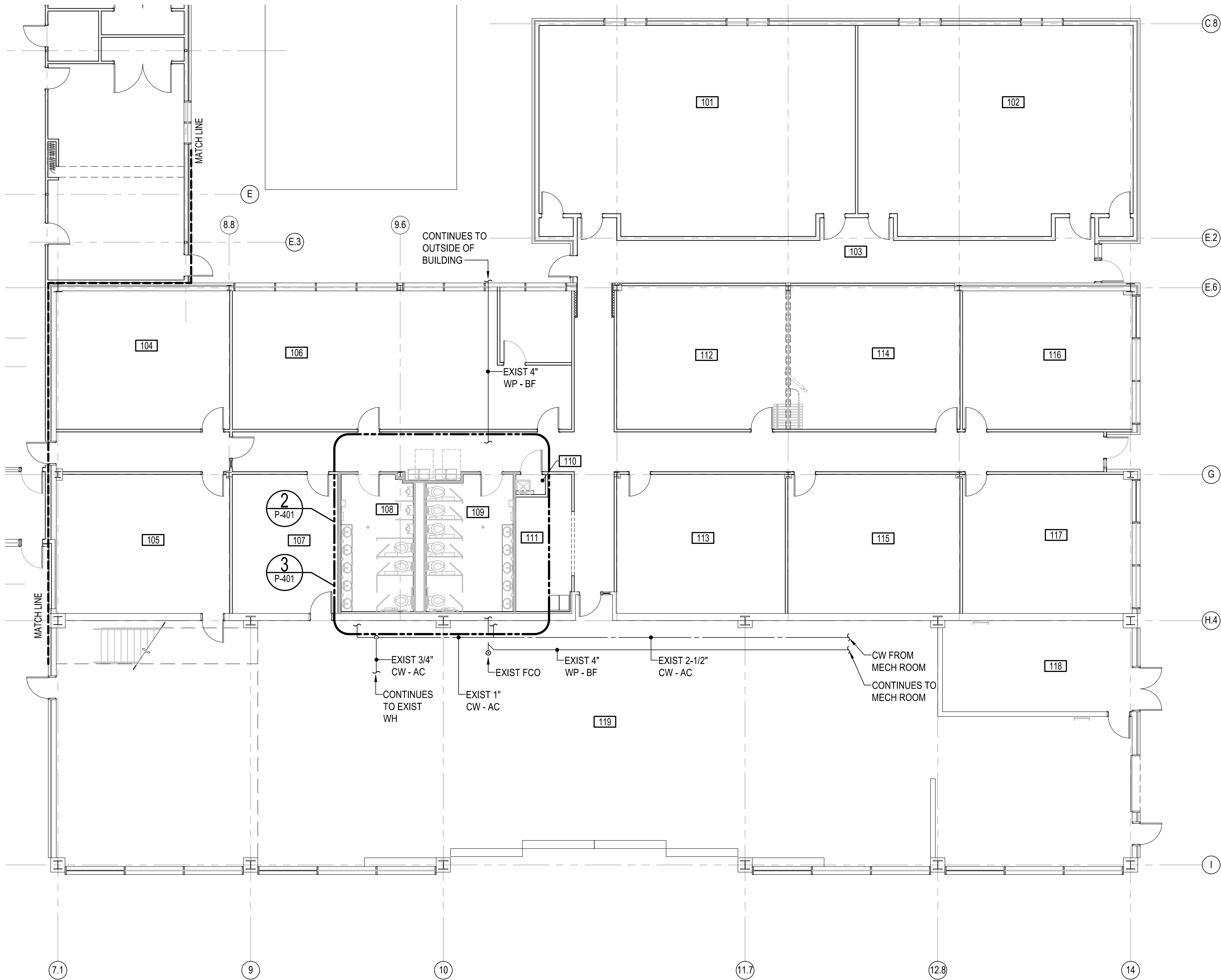
U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE
BUILDING 4034, FRC-E
PLUMBING NEW WORK PARTIAL FLOOR PLAN

SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO.: 7375939
NAVAC DRAWING NO.: 12816271
SHEET 60 OF 113
P-101
DRAWING REVISION: 10 MAY 2014

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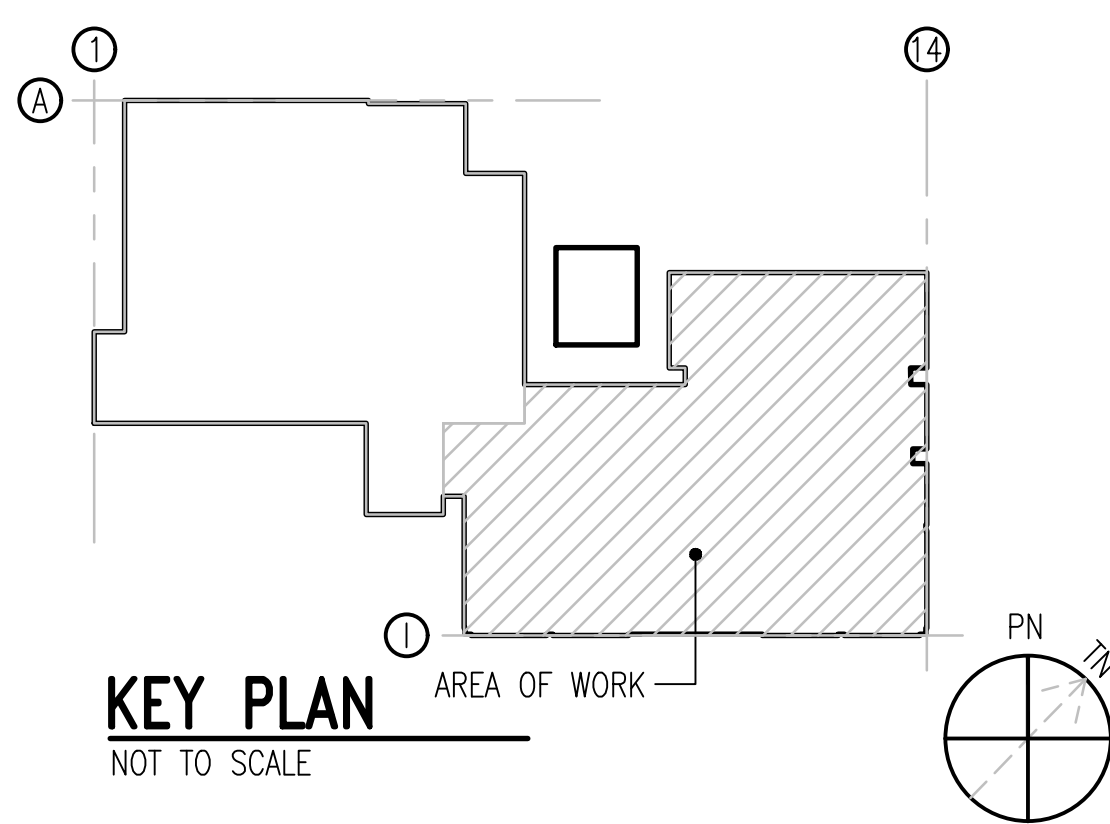
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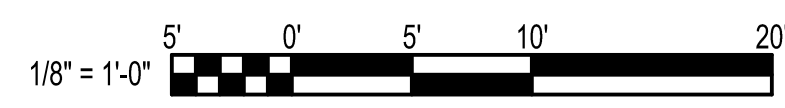


NEW WORK PARTIAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

ROOM SCHEDULE	
101	CLASSROOM
102	CLASSROOM
103	CORRIDOR
104	OFFICE
105	CLASSROOM
106	OPEN OFFICE
107	OFFICE
108	MENS' HEAD
109	WOMENS' HEAD
110	JANITOR
111	VENDING
112	CLASSROOM
113	CLASSROOM
114	CLASSROOM
115	CLASSROOM
116	CLASSROOM
117	CLASSROOM
118	MECHANICAL ROOM
119	RUBBER SHOP



GRAPHIC SCALE:



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DATE
DESCRIPTION
SYN

DEPARTMENT OF THE NAVY
UNITED STATES MARINE CORPS

COMMONWEALTH OF VIRGINIA
S. GINTARAS GELLINIS
Lic. No. 046495
01/11/26
PROFESSIONAL ENGINEER
P24074

NRW ENGINEERING
Structural Consultants
748 Lord Dunmore Drive, Suite 101
Virginia Beach, VA 23464
Phone 757-474-0512
Fax 757-474-0919

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DES HAM | DRW HAM | CHK GG

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE
BUILDING 4034, FRC-E
PLUMBING NEW WORK PARTIAL FLOOR PLAN

SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO.: 7375939
NAVFAC DRAWING NO.: 12816272
SHEET 61 OF 113
P-102
DRAWING REVISION: 10 MAY 2014

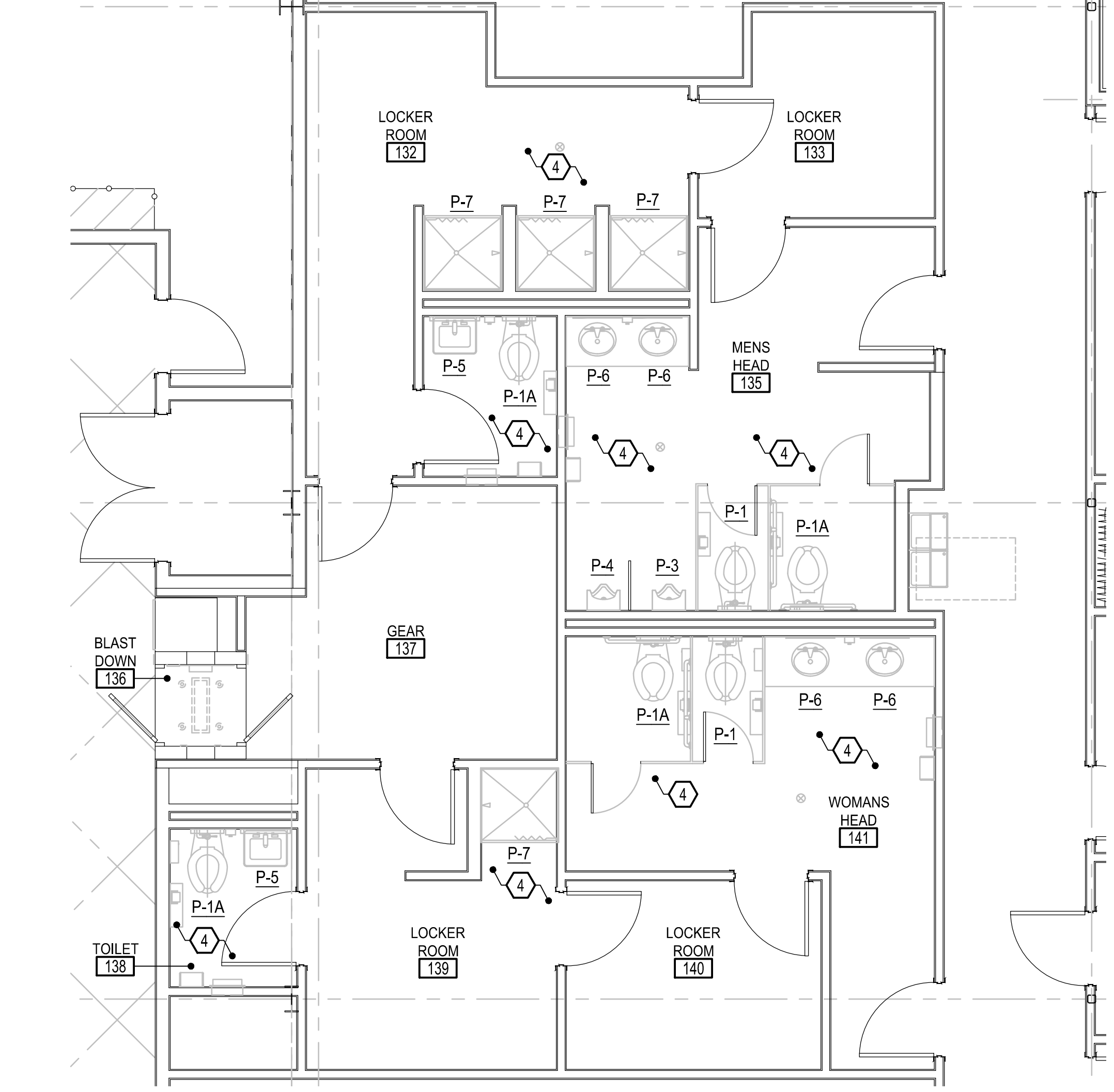
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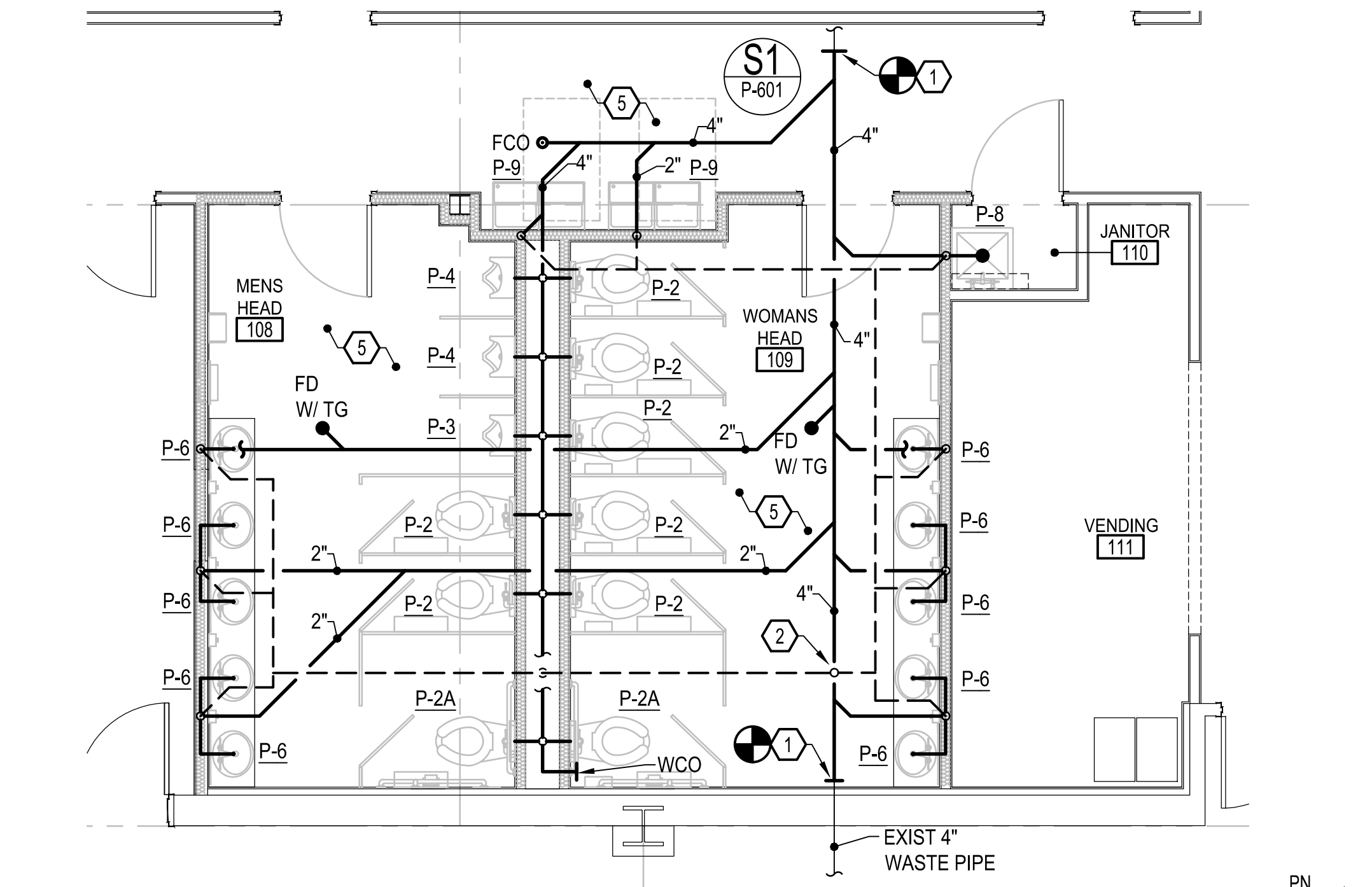
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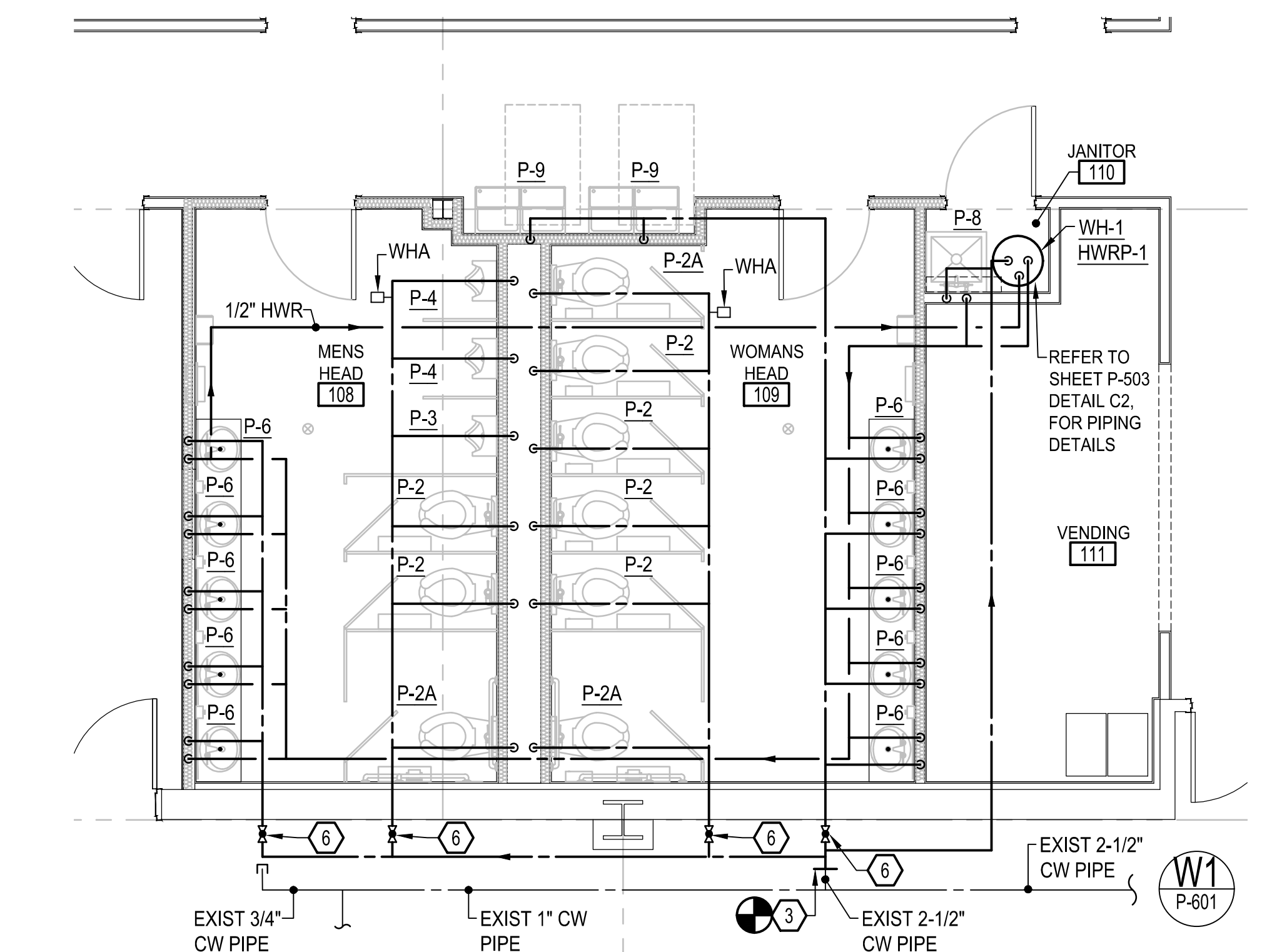
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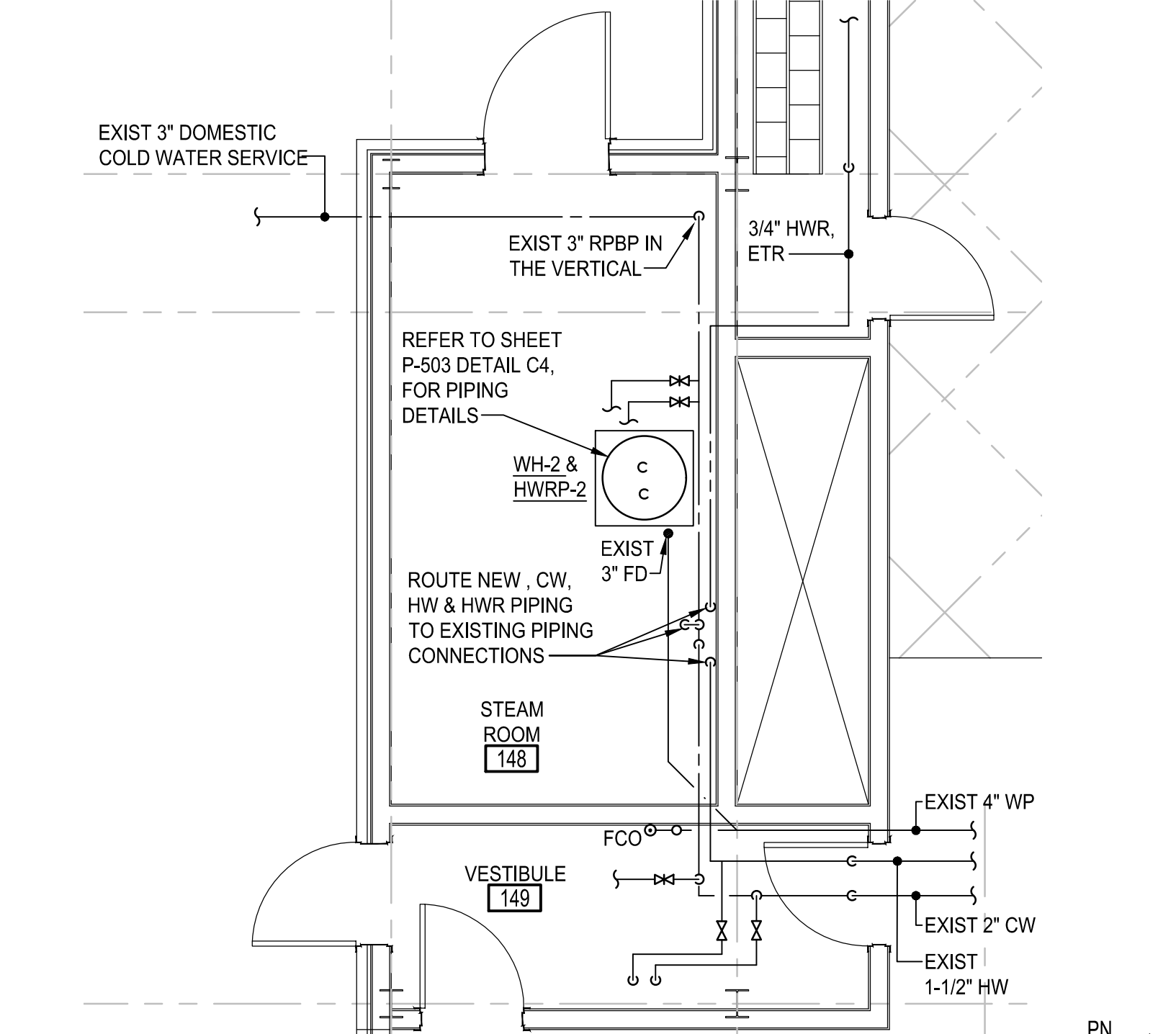
1 NEW WORK ENLARGED PARTIAL FLOOR PLAN
P-101 SCALE: 1/4" = 1'-0"



2 NEW WORK ENLARGED PARTIAL PLAN - SANITARY WASTE
P-102 SCALE: 1/4" = 1'-0"



3 NEW WORK ENLARGED PARTIAL FLOOR PLAN - WATER
P-102 SCALE: 1/4" = 1'-0"



4 NEW WORK ENLARGED STEAM ROOM PLAN
P-101 SCALE: 1/4" = 1'-0"

SHHET KEYNOTES

- 1 CONNECT TO EXISTING 4" SANITARY WASTE PIPE.
- 2 CONNECT NEW VENT PIPE TO EXISTING 4" VENT PIPE UP TO VTR.
- 3 CONNECT TO EXISTING 2-1/2" WATER PIPE.
- 4 PROVIDE NEW PLUMBING FIXTURES, CONNECT TO EXISTING ROUGH-INS. CONTRACTOR MUST PROVIDE NEW ANGLE STOP VALVES AND WAX RING FOR APPLICABLE FIXTURES.
- 5 SAW CUT AND PATCH FLOOR AS REQUIRED FOR NEW DRAIN PIPE INSTALLATION.
- 6 INSTALL VALVES 9' ABOVE FINISHED FLOOR. PROVIDE LABELS INDICATING SERVICE.

GRAPHIC SCALE:



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NRW ENGINEERING Structural Consultants 748 Lord Dunmore Drive, Suite 101 Virginia Beach, VA 23464 Phone 757-474-0812 Fax 757-474-0919			
APPROVED			
FOR COMMANDER NAVFAC			
ACTIVITY			
SATISFACTORY TO			
DES HAM DRW HAM CHK GG			
U.S. MARINE CORPS AIR STATION CHERRY POINT, NORTH CAROLINA REPAIR AND UPGRADE BUILDING 4034, FRC-E PLUMBING NEW WORK ENLARGED PLANS			
SCALE: AS NOTED			
PROJECT NO.: XK11237			
MAXIMO WORK ORDER NO. 7375939			
NAVFAC DRAWING NO. 12816273			
SHEET 62 OF 113			
P-401			
DRAWING REVISION: 10 MAY 2014			

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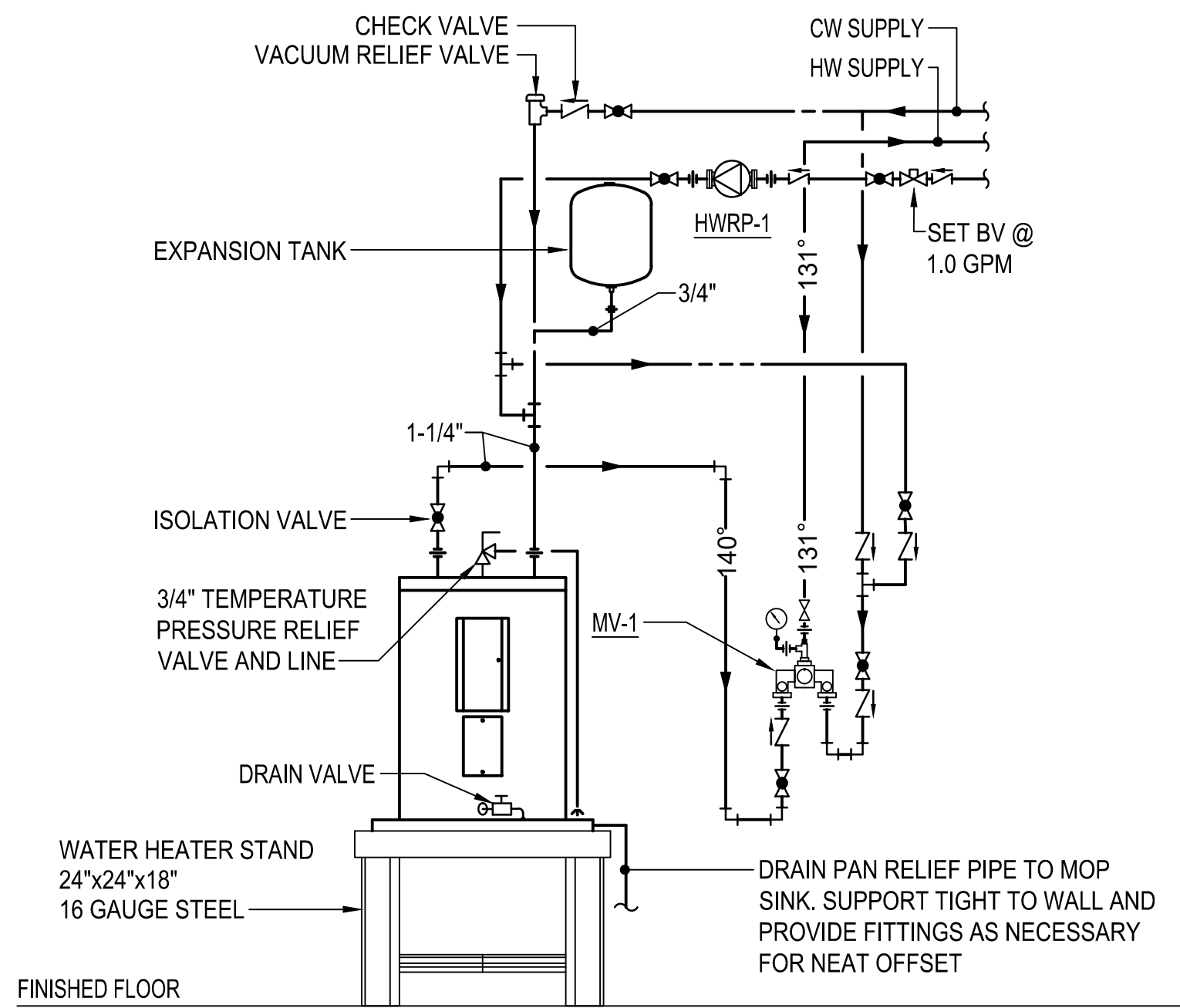
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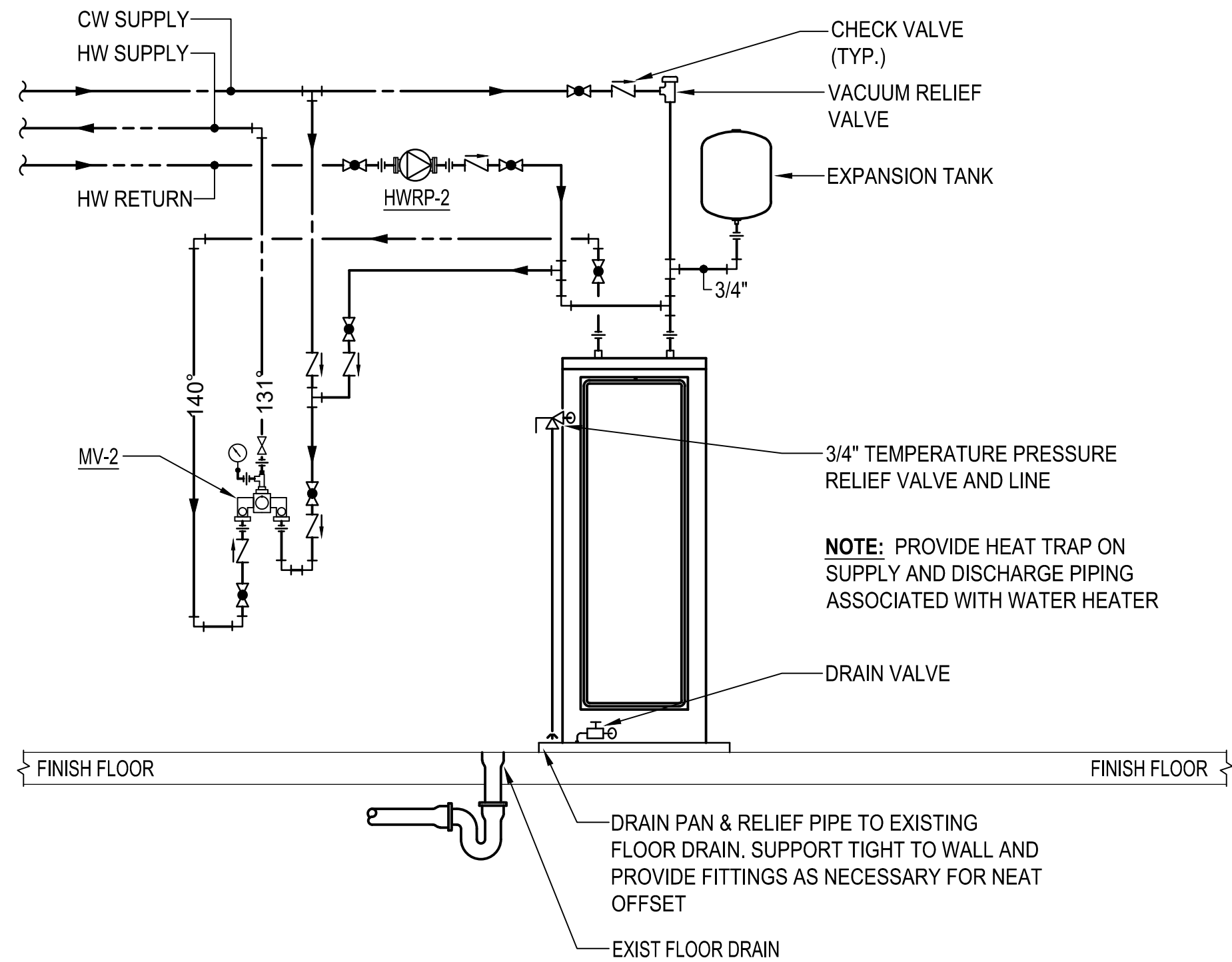
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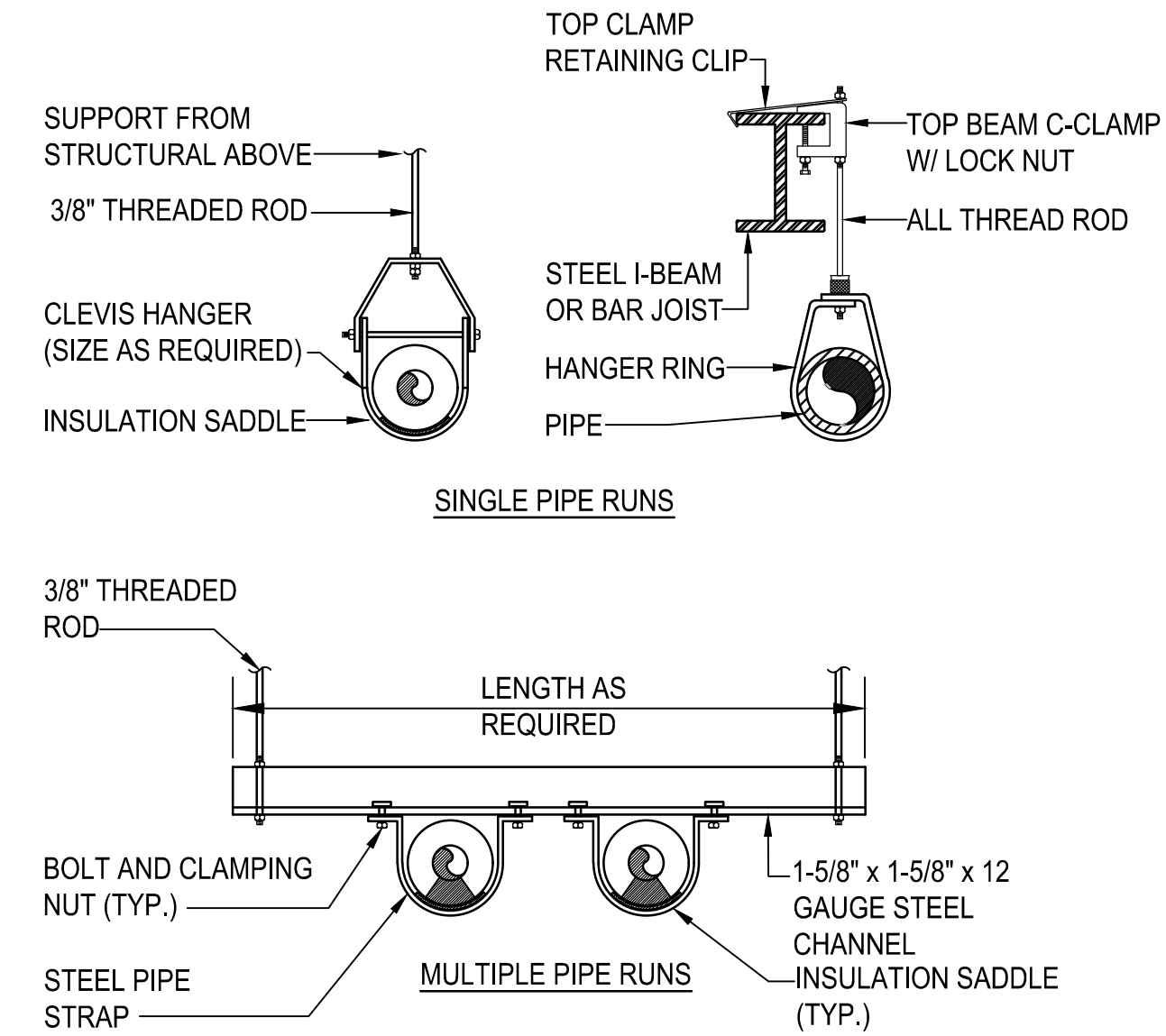
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C2) WATER HEATER (WH-1) DETAIL
NO SCALE



C4) WATER HEATER (WH-2) DETAIL
NO SCALE



B3) PIPE SUPPORT DETAIL
NO SCALE

ELECTRIC WATER HEATER SCHEDULE

MARK	TYPE	LOCATION	STORAGE CAPACITY	TEMPATURE SET POINT	TEMPATURE RISE	ELECTRICAL				EXPANSION TANK		MOUNTING	REMARKS
						GPH	KILOWATTS	VOLTS	PHASE	ACCEPTANCE	TOTAL		
WH-1	STORAGE	JANITOR ROOM 110	40 GAL	140°	72°	50	9	480	3Ø	0.40	0.94	FLOOR	INSTALL PER MANUFACTURER'S RECOMMENDATION
WH-2	STORAGE	STEAM ROOM 150	80 GAL	140°	72°	68	12	480	3Ø	0.79	1.89	FLOOR	INSTALL PER MANUFACTURER'S RECOMMENDATION

MIXING VALVE SCHEDULE

MARK	COLD INTLET TEMP.	HOT INTLET TEMP.	MAX OUTLET TEMP.	MAX OUTLET FLOW (GPM)	MIN OUTLET FLOW (GPM)	MAX PRESSURE DROP (PSI)	REMARKS
MV-1	57	140	131	25	0.25	10	INSTALL PER MANUFACTURER'S RECOMMENDATION
MV-2	57	140	131	25	0.25	10	INSTALL PER MANUFACTURER'S RECOMMENDATION

PUMP SCHEDULE

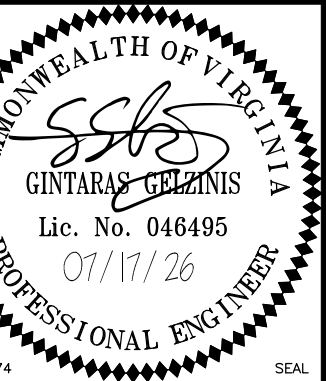
MARK	TYPE	LOCATION	VOLTAGE	HP	PHASE	GPM	HEAD	RPM	REMARKS
HWRP-1	HOT WATER CIRCULATION	WH-1	115	1/12	1 Ø	1.0	5'	3000	123
HWRP-2	HOT WATER CIRCULATION	WH-2	115	1/6	1 Ø	8	16'	3000	123

- NOTE: ① INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- ② WATER TEMP THROUGH OUT RECIRCULATION PIPING SHALL BE NO LESS THAN 122°F
- ③ HWRP-1 & HWRP-2 SHALL BE CONTROLLED BY THE DDC SYSTEM. TURN PUMP ON IF TEMPERATURE FALLS 10° BELOW WATER HEATER SETPOINT. TURN PUMP OFF IF WATER TEMPERATURE EXCEEDS 5°F BELOW WATER HEATER SETPOINT. PROVIDE 7-DAY PROGRAMMABLE TIME CLOCK TO TURN HWRP-1 & HWRP-2 OFF DURING NON OCCUPIED HOURS AND ON DURING OCCUPIED HOURS.



SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO. 7375939
NAVFAC DRAWING NO. 12816276
SHEET 65 OF 113
P-503

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE
BUILDING 4034, FRC-E
PLUMBING SCHEDULES & DETAILS



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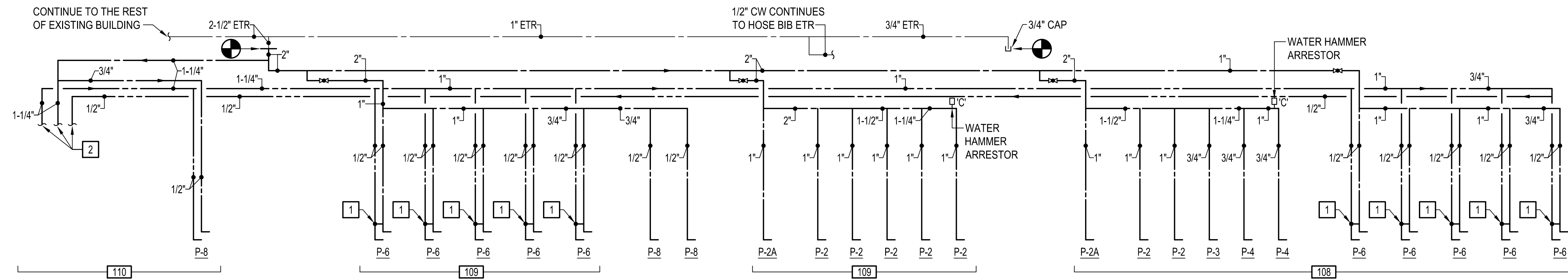
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C1 WATER RISER DIAGRAM
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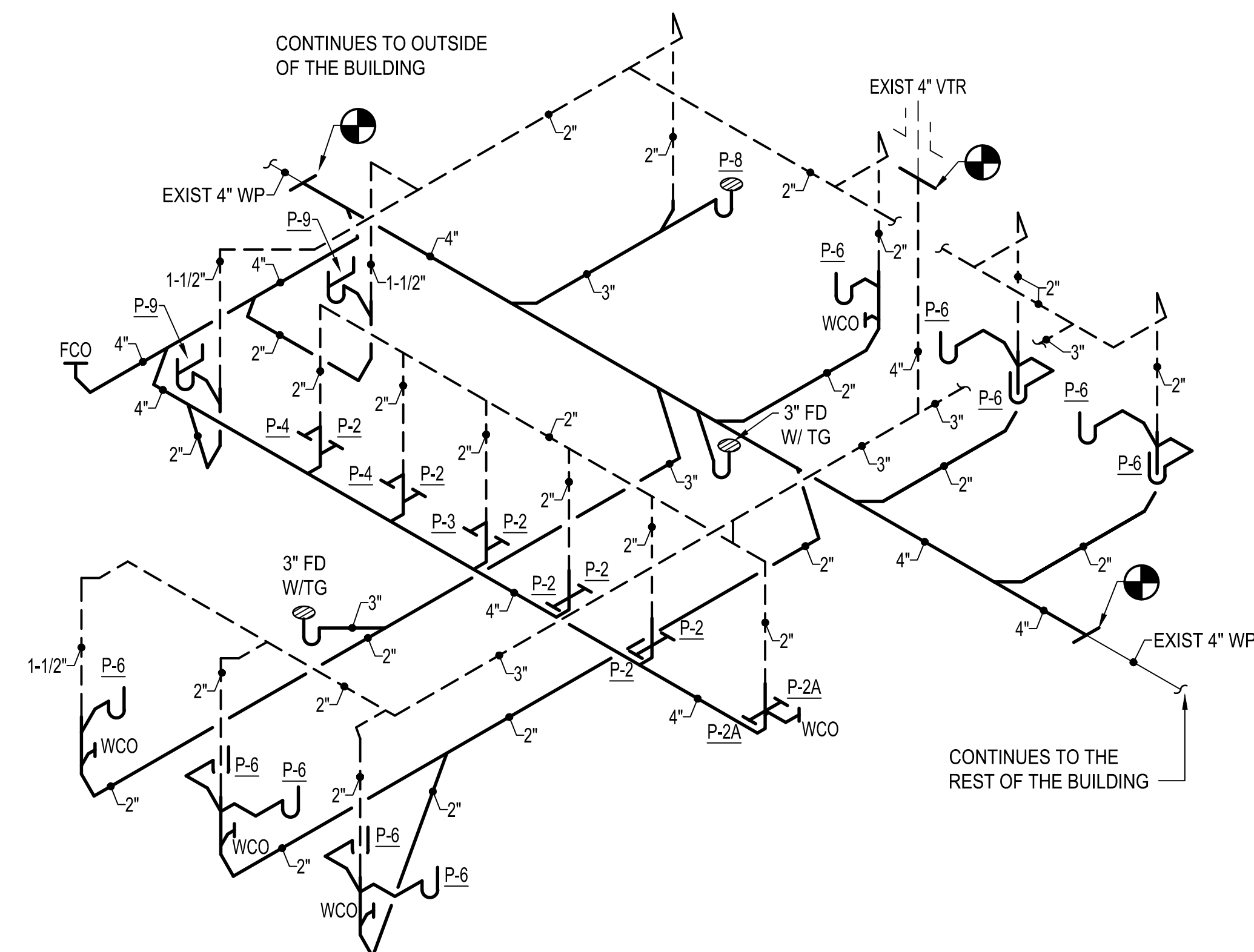
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SHEET KEYNOTES

- 1 PROVIDE THERMOSTATIC MIXING VALVE SET AT 110°F MAX (ASSE 1070).
- 2 HOT, COLD AND HOT WATER RETURN PIPING TO DETAIL C2, SHEET P-503 FOR CONTINUATION.

SFU NOTE:

THIS PROJECT ADDS 70.5 SFU's TO THE
EXISTING DOMESTIC WATER SYSTEM.



A3 WASTE RISER DIAGRAM
NO SCALE

NO SCALE

DFU NOTE:

THIS PROJECT ADDS 29 DFU's TO THE EXISTING SANITARY WASTE SYSTEM.



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A/E INFO

OR COMMANDER NAVFAC
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SATISFACTORY TO

DES HAM	DRW HAM	CHK GG
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U.S. MARINE CORPS AIR STATION	CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE BUILDING 4034, FRC-E	
PLUMBING RISER DIAGRAMS	

SCALE: AS NOTED

PROJECT NO.:	XK11237
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MAXIMO WORK ORDER NO.
7375039

WAVEAC DRAWING NO.

12816277

SHEET 66 OF 113

P-601

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GENERAL NOTES

DEMOLITION

- EXISTING HVAC PIPING, DUCTWORK, AND EQUIPMENT SHOWN IS BASED ON EXISTING PLANS AND FIELD OBSERVATION WITHOUT DEMOLITION. AFTER DEMOLITION, ANY CLARIFICATION REQUIRED TO DETERMINE SCOPE OF WORK MUST BE BROUGHT TO THE ATTENTION OF THE COTR.
- THE CONTRACTOR MUST VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS.
- DRAWINGS DO NOT SHOW EVERY EXISTING PIPE, CONDUIT, DUCT, ETC. CONTRACTOR MUST TAKE CARE TO REMOVE ONLY ITEMS REQUIRED TO BE REMOVED AND VERIFY PIPES, DUCTS, ETC. BEFORE REMOVAL.
- REMOVAL OF ITEMS MUST INCLUDE ASSOCIATED HANGERS, ANCHOR BOLTS AND OTHER APPURTENANCES. WHERE SUCH REMOVAL RESULTS IN OPEN HOLES, VOIDS OR EXPOSURE OF DAMAGED SURFACES, THE CONTRACTOR MUST BE RESPONSIBLE FOR REPAIRING AND FINISHING THE SURFACE TO MATCH ADJACENT CONDITIONS. THIS WORK MUST BE COORDINATED WITH ARCHITECTURAL FINISH SCHEDULES WHERE APPLICABLE.
- DEMOLITION WORK MUST BE DONE IN PHASES. REFER TO PHASING SHEETS.
- BUILDING IS TO REMAIN OCCUPIED DURING CONSTRUCTION. REMOVAL OR SHUT-DOWN OF EQUIPMENT THAT AFFECTS ANY OCCUPIED AREA'S AIR CONDITIONING OR HEATING MUST ONLY BE DONE AS APPROVED OR TEMPORARY AIR CONDITIONING OR HEATING MUST BE PROVIDED AT CONTRACTOR'S EXPENSE. THIS MAY REQUIRE NIGHT AND WEEKEND WORK TO KEEP BUILDING IN OPERATION.
- REMOVE EXISTING DUCTWORK AND PIPING NOT TO BE REUSED.
- ALL MATERIALS REMOVED UNDER DEMOLITION, NOT TO BE RELOCATED OR DESIGNATED TO BE TURNED OVER TO THE OWNER, MUST BECOME THE PROPERTY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED, AND MUST BE REMOVED COMPLETELY FROM THE SITE.

GENERAL ITEMS

- GENERAL NOTES ON THIS DRAWING ARE APPLICABLE TO EACH HVAC DRAWING OF THIS SET. SEE EACH DRAWING FOR SPECIFIC NOTES APPLICABLE TO THAT DRAWING.
- COORDINATE THAT OUTSIDE AIR INTAKE OPENINGS FOR VENTILATION AIR ARE LOCATED AT LEAST 10 FEET MEASURED IN ANY DIRECTION FROM ANY HAZARDOUS OR NOXIOUS CONTAMINANT SOURCE SUCH AS FLUES, VENTS, CHIMNEYS, GAS METERS, GAS REGULATORS, PLUMBING VENTS, ETC., UNLESS TOP OF SUCH INTAKE OPENING IS 3 FEET OR GREATER BELOW ANY OF THE LISTED ITEMS.
- OVERHEAD PIPING IN SPACES WITHOUT HUNG CEILINGS MUST BE RUN AS CLOSE TO ROOF DECK OR STRUCTURE ABOVE, AS PRACTICAL, AS CLOSE TO PARALLEL JOISTS AS POSSIBLE AND ABOVE LIGHTING FIXTURES TO CONCEAL PIPING.
- OVERHEAD DUCTWORK AND PIPING IN SPACES WITH CEILINGS MUST BE CONCEALED UNLESS OTHERWISE NOTED.
- PROVIDE PIPE SLEEVES LARGE ENOUGH TO ALLOW FOR REQUIRED LATERAL MOVEMENT OF PIPING.
- EXERCISE DUE CAUTION IN INSTALLING RUNOUTS AND BRANCH PIPING FROM MAINS FOR EXPANSION MOVEMENT.
- COORDINATE LOCATION OF GRILLES, REGISTERS, DIFFUSERS, THERMOSTATS AND OTHER WALL OR CEILING MOUNTED HVAC ACCESSORIES WITH REFLECTED CEILING PLAN, LIGHTING FIXTURE LAYOUT AND ACCESSORIES INSTALLED BY OTHER TRADES SO AS TO PRESENT A NEAT AND ATTRACTIVE INSTALLATION THROUGHOUT THE ENTIRE BUILDING. IT IS THE INTENT FOR GRILLES, REGISTERS AND DIFFUSERS TO BE INSTALLED IN THE CENTER OF CEILING PANELS.
- ARRANGE PIPING AND DUCTWORK, PARTICULARLY ABOVE CEILING AS REQUIRED TO CLEAR STRUCTURE, DUCTS, CONDUITS, ETC. ALLOWING SPACE FOR PIPE HANGERS, EXPANSION LOOPS AND ACCESS TO VALVES, FILTERS, AND MAINTENANCE OF EQUIPMENT.
- CONTRACTOR MUST VERIFY REFRIGERANT PIPE SIZES WITH EQUIPMENT MANUFACTURER FOR THE INDICATED INSTALLATION.
- COORDINATE LOCATION AND INSTALLATION OF EQUIPMENT WITH OTHER TRADES.
- THERMOSTATS AND/OR TEMPERATURE SENSORS MUST BE LOCATED IN THE ROOMS INDICATED. INSTALL AT APPROX. 46" ABOVE FINISH FLOOR TO MATCH THE HEIGHT OF WALL SWITCHES OR OTHER WALL MOUNTED DEVICES.
- PIPING, DUCTWORK, VENTS, ETC., EXTENDING THROUGH EXTERIOR WALLS AND ROOF MUST BE FLASHED AND COUNTER FLASHED IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS.
- VALVES AND SPECIALTIES MUST BE LINE SIZE EXCEPT FOR CONTROL VALVES OR UNLESS NOTED OTHERWISE.
- EXTEND DRAIN LINES TO NEAREST FLOOR DRAIN OR AS INDICATED. ROUTING MUST NOT INTERFERE WITH PASSAGEWAYS AND MAINTENANCE. DRAINS FROM AIR CONDITIONING CONDENSATE DRAIN PANS MUST BE TRAPPED. SLOPE CONDENSATE DRAIN PIPING AT 1/4" PER FOOT. VERIFY INVERT IS ESTABLISHED AFTER AIR HANDLING UNIT IS INSTALLED BUT PRIOR TO DUCTWORK INSTALLATION.
- ROOFTOP UNITS AND OTHER EQUIPMENT CONTAINING AIR CONDITIONING COILS WHICH DO NOT HAVE A SECONDARY DRAIN OR AUXILIARY DRAIN PAN MUST BE FITTED WITH A WATER LEVEL SENSOR IN THE PRIMARY DRAIN PAN. THE SENSOR MUST BE WIRED TO DE-ENERGIZE THE EQUIPMENT IF WATER RISES ABOVE THE DRAIN OUTLET.
- PIPING AND DUCTWORK INSULATION MUST BE RUN CONTINUOUSLY THROUGH NON-RATED FLOORS, WALLS, ROOF AND PARTITIONS, UNLESS OTHERWISE INDICATED.
- NO PIPING MUST BE SMALLER THAN 3/4" UNLESS OTHERWISE NOTED.
- RUNOUTS MUST PITCH DOWN IN DIRECTION OF FLOW A MINIMUM OF 1" IN 3'.
- FOR PIPE SIZES NOT INDICATED ON PLANS, SEE EQUIPMENT CONNECTION DETAILS, FLOW DIAGRAMS AND RISER DIAGRAMS.
- PROVIDE UNION OR FLANGED CONNECTIONS AT EACH PIECE OF EQUIPMENT AND ON BOTH SIDES OF CONTROL VALVES AND PRESSURE REGULATING VALVES. PROVIDE SHUT-OFF VALVES ON BOTH SIDES OF AUTOMATIC VALVES.
- RELIEF VALVE PIPING MUST BE EXTENDED TO THE NEAREST FLOOR DRAIN.

- FLOOR MOUNTED EQUIPMENT IN THE MECHANICAL ROOMS MUST BE LOCATED ON 4" THICK CONCRETE HOUSEKEEPING PADS UNLESS OTHERWISE INDICATED.
- PIPING MUST BE SUPPORTED IN ACCORDANCE WITH THE SPECIFICATIONS. ADDITIONAL SUPPORTS OR HANGERS MUST BE INSTALLED ADJACENT TO ELBOWS TO PREVENT WEIGHT OF PIPING BEING PLACED ON THE EQUIPMENT.
- CORRECT SETTING ON BALANCING FITTINGS MUST BE PERMANENTLY MARKED.
- INSTALL ANCHORS AND EXPANSION LOOPS WHERE INDICATED AND WHERE REQUIRED TO ALLOW FOR EXPANSION.
- LOCATE AND SIZE CONCRETE PADS AND CURBS FOR MECHANICAL EQUIPMENT IN ACCORDANCE WITH ACTUAL EQUIPMENT PURCHASED.
- FOR LOCATION OF MOTOR STARTERS, SEE ELECTRICAL DRAWINGS.

THROUGH-PENETRATION FIRESTOP ASSEMBLIES

- PROVIDE APPROVED UL LISTED THROUGH-PENETRATION FIRESTOP SYSTEMS FOR DUCTWORK AND PIPE PENETRATIONS THROUGH RATED ASSEMBLIES. REVIEW ARCHITECTURAL DRAWINGS FOR FIRE PARTITION LOCATIONS AND UL LISTINGS.

HOT AND CHILLED WATER PIPING

- PROVIDE MINIMUM PITCH SUFFICIENT TO INSURE ADEQUATE VENTING AND DRAINAGE.
- PROVIDE MANUAL AIR VENTS AT HIGH POINTS OF SYSTEM.
- PROVIDE 1/2" DRAIN VALVES AND CAPPED CONNECTIONS AT LOW POINTS IN PIPING SYSTEMS FOR DRAINING.

STEAM PIPING

- STEAM MAINS MUST PITCH DOWN IN DIRECTION OF FLOW A MINIMUM OF 1" IN 40'.
- CONDENSATE RETURN MAINS MUST PITCH DOWN IN DIRECTION OF FLOW A MINIMUM OF 1" IN 20'.
- D RIP POINTS MUST BE INSTALLED AT POINTS INDICATED ON THE DRAWINGS AND WHERE REQUIRED.
- D RIP MAINS, RUNOUTS AND RISERS AT LEAST EVERY 100 FEET.
- DO NOT LIFT LOW PRESSURE CONDENSATE.

SHEET METAL

- PROVIDE ACCESS DOORS IN DUCTWORK WHERE INDICATED OR REQUIRED FOR ACCESS TO SYSTEM COMPONENTS INCLUDING THE FOLLOWING:
DAMPER MOTORS AND/OR MOTOR OPERATED DAMPERS
FILTERS
BOTH SIDES OF HEATING AND COOLING COILS
FAN BEARINGS ENCLOSED IN DUCTS OR PLENUMS
CONTROL DAMPERS
- PROVIDE A MINIMUM OF THREE TIMES THE FAN DIAMETER OF STRAIGHT DUCTWORK OFF THE SUPPLY AIR FAN DISCHARGE BEFORE ANY TAKEOFFS OR ELBOWS.
- ALL DUCTWORK MUST BE CONSTRUCTED TO THE SMACNA STATIC PRESSURE CLASSIFICATION OF 2 IN. WG AND SEAL CLASS "A".
- PROVIDE EXTENDED VOLUME DAMPER CONTROL RODS SO THAT HANDLES ARE WELL CLEAR OF DUCT INSULATION.

MAINTENANCE

- EQUIPMENT WITH FILTERS MUST BE INSTALLED SO THAT FILTERS CAN BE EASILY REMOVED AND REPLACED.
- EQUIPMENT INSTALLED ABOVE CEILINGS MUST BE MOUNTED APPROX. 12" ABOVE CEILING (UON) FOR MAINTENANCE ACCESS.
- INSTALL PIPE RUNS AT LEAST 6" ABOVE CEILING TILES. WHERE PRACTICAL INSTALL VALVES, AND OTHER MAINTAINABLE DEVICES LOW ENOUGH TO REACH WITH A 6' LADDER.
- PROVIDE ACCESS TO ANY INSPECTION OR MAINTAINABLE DEVICE, EQUIPMENT, ETC. ACCESS OR ACCESS DOOR MUST BE OF ADEQUATE SIZE TO WORK ON DEVICE.
- EXAMINE MANUFACTURER'S LITERATURE TO DETERMINE RECOMMENDED CLEARANCES. THESE CLEARANCES, IN ADDITION TO MINIMUM CLEARANCES REQUIRED BY THE NATIONAL ELECTRICAL CODE, MUST BE ESTABLISHED AND MAINTAINED. THIS APPLIES TO NEW AND EXISTING EQUIPMENT IMPACTED BY THIS PROJECT AS WELL. THE CONTRACTOR MUST BE RESPONSIBLE FOR COORDINATING THESE REQUIREMENTS WITH ALL OTHER TRADES.

INTERDISCIPLINARY COORDINATION

- IF THIS CONTRACTOR SHOULD ELECT TO PROPOSE ANY EQUIPMENT THAT HAS DIFFERENT PHYSICAL OR ELECTRICAL CHARACTERISTICS, ETC. WHEN COMPARED TO THE BASIS OF DESIGN EQUIPMENT, THIS CONTRACTOR IS RESPONSIBLE FOR COORDINATING THESE CHANGES WITH THE OTHER TRADES PRIOR TO ORDERING OF EQUIPMENT. IF THERE SHOULD BE ANY ADDITIONAL WORK INCURRED BY THE OTHER TRADES AS A RESULT OF THIS CONTRACTOR'S EQUIPMENT SELECTION, ALL COSTS ASSOCIATED WITH THE ADDITIONAL WORK MUST BE BORNE BY THIS CONTRACTOR.

LEGEND AND ABBREVIATIONS

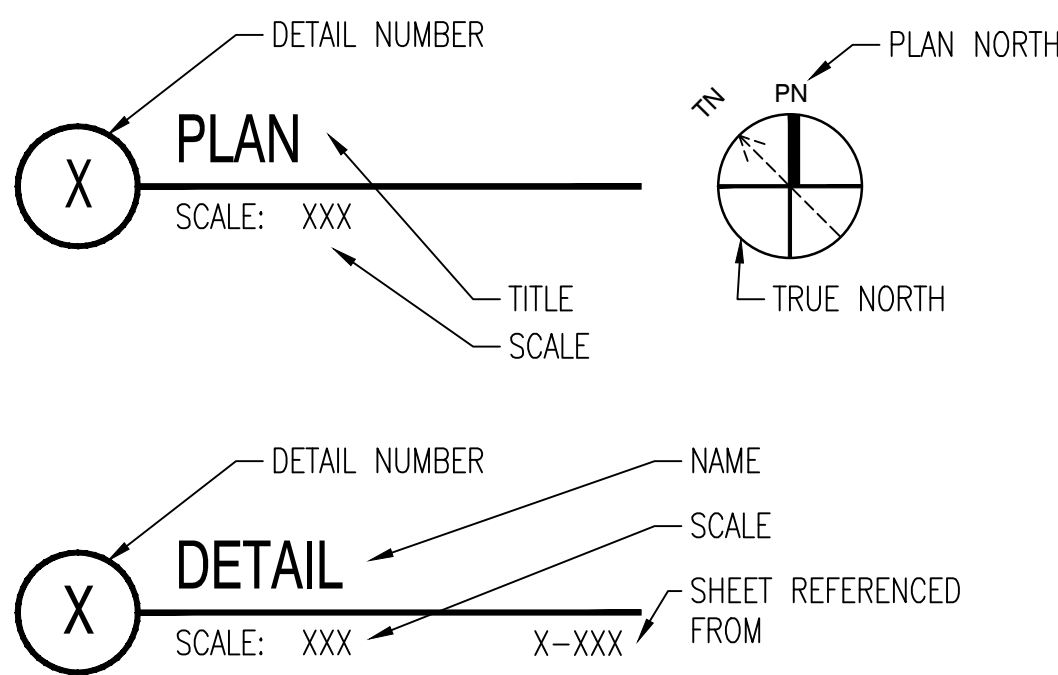
	SHEET KEYNOTES
	POINT OF CONNECTION NEW TO EXISTING
	POINT OF DEMOLITION LIMIT
	SECTION
	SHEET WHERE SECTION IS SHOWN/CUT
	AFTERCOOLER DESIGNATION
	AIR COOLED CONDENSER DESIGNATION
	AIR CONDITIONING UNIT DESIGNATION
	AIR COOLED CONDENSING UNIT DESIGNATION
	AIR DRYER DESIGNATION
	AIR SEPARATOR DESIGNATION
	AIR HANDLING UNIT DESIGNATION
	BASEBOARD RADIATION DESIGNATION
	BASEBOARD HEATER DESIGNATION
	CONDENSATE RETURN PUMP DESIGNATION
	DUST COLLECTOR DESIGNATION
	DUCTLESS AIR CONDITIONING UNIT DESIGNATION
	EXHAUST FAN DESIGNATION
	EXPANSION TANK DESIGNATION
	FILTER UNIT DESIGNATION
	PUMP DESIGNATION
	HEAT EXCHANGER DESIGNATION
	ROOF TOP HEAT PUMP DESIGNATION
	LOUVER DESIGNATION
	MAKE UP AIR UNIT DESIGNATION
	UNIT HEATER DESIGNATION
	VARIABLE AIR VOLUME DESIGNATION
	WATER HEATER DESIGNATION
	FAN SWITCH
	EMERGENCY AIR DISTRIBUTION SHUT-OFF SWITCH
	WALL CARBON DIOXIDE SENSOR
	WALL HUMIDISTAT
	WALL THERMOSTAT
	WALL TEMPERATURE SENSOR
	BACKDRAFT DAMPER
	MOTORIZED DAMPER
	VOLUME DAMPER
	SMOKE DETECTOR
	GRILLE, REGISTER OR DIFFUSER MARK (CFM AS INDICATED)
	SUPPLY AIR/OUTSIDE AIR DUCT SECTION
	RETURN/EXHAUST DUCT SECTION
	SUPPLY AIR/OUTSIDE AIR DUCT SECTION THROUGH ROOF
	RETURN/EXHAUST DUCT SECTION THROUGH ROOF
	DUCT TURNING UP
	DUCT TURNING DOWN
	CEILING DIFFUSER WITH FLEXIBLE DUCTWORK
	RETURN/EXHAUST REGISTER
	MITERED ELBOW WITH TURNING VANES

	ISOLATION VALVE
	GLOBE VALVE
	BALL VALVE
	DISCONNECT
	BUTTERFLY VALVE
	PLUG VALVE
	CHECK VALVE
	BALANCING VALVE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	DRAIN VALVE
	STRAINER
	STRAINER W/ BLOWDOWN VALVE
	UNION
	FLEXIBLE PIPE CONNECTOR
	PRESSURE GAUGE W/ GAUGE COCK
	THERMOMETER
	MANUAL AIR VENT
	PIPE TURNING UP
	PIPE TURNING DOWN
	PIPE CAPPED
	PIPE GUIDE
	PIPE ANCHOR
	DIRECTION OF PITCH DOWN
	DIRECTION OF FLOW
	BREATHING AIR
	CONDENSATE DRAIN
	HIGH PRESSURE STEAM PIPING
	HIGH PRESSURE CONDENSATE
	HOT WATER SUPPLY PIPING
	HOT WATER RETURN PIPING
	LOW PRESSURE STEAM PIPING
	LOW PRESSURE CONDENSATE
	PUMPED CONDENSATE PIPING
	REFRIGERANT PIPING
	DOMESTIC COLD WATER (C.W.)
	1 HOUR FIRE RATED PARTITION
	2 HOUR FIRE RATED PARTITION
	SMOKE PARTITION

AFF	ABOVE FINISHED FLOOR
APD	AIR PRESSURE DROP
APPROX	APPROXIMATELY
CALC	CALCULATED
COND	CONDENSATE
COTR	CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE
db	DECIBELS
DB	DRY BULB TEMPERATURE
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE
EL	ELEVATION
EWB	ENTERING WET BULB TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
ETR	EXISTING TO REMAIN
ESP	EXTERNAL STATIC PRESSURE
FA	FREE AREA
FLA	FULL LOAD AMPS
FBM	FEET PER MINUTE
FT	FEET
GPM	GALLONS PER MINUTE
HD	HEAD
HEPA	HIGH-EFFICIENCY PARTICULATE AIR
HP	HORSEPOWER
IN	INCH
ISMF	INTEGRATED SAFETY MONITORING FILTER
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB TEMPERATURE
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MCA	MIN CIRCUIT AMPACITY
MIN	MINIMUM
MOCP	MAX OVERCURRENT PROTECTION
NC	NOISE CRITERIA
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
PMB	PLASTIC MEDIA BLASTING
PSIG	POUND PER SQUARE INCH GAUGE
PD	PRESSURE DROP
RPM	REVOLUTIONS PER MINUTE
SEER	SEASONAL ENERGY EFFICIENCY RATING
SENS	SENSIBLE
SF	SQUARE FEET
TSP	TOTAL STATIC PRESSURE
(TYP)	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT
W	WATT
WB	WET BULB TEMPERATURE
WG	WATER GAUGE
Ø	PHASE/DIAMETER
°F	DEGREE FAHRENHEIT
°C	DEGREE CELSIUS
⊖	FLAT OVAL

FIRE STOPPING NOTE:

CONTRACTOR MUST PROVIDE AN APPROPRIATE LISTED THROUGH-PENETRATION FIRE STOPPING ASSEMBLY AT EACH PENETRATION OF FIRE RATED CONSTRUCTION (I.E. WALLS AND SLABS, ETC.). FIRE STOPPING OF DUCT PENETRATIONS THROUGH RATED ASSEMBLIES ARE ONLY PERMITTED WHEN FIRE AND/ OR SMOKE DAMPERS ARE NOT REQUIRED. SLEEVES MUST ONLY BE PERMITTED WHERE INDICATED IN THE CONTRACTOR SELECTED THROUGH-PENETRATION FIRE STOPPING ASSEMBLY. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL RATED ASSEMBLIES AND ASSOCIATED UL DESIGNATIONS. DEVICES INSTALLED RECESSED WITHIN FIRE RATED CONSTRUCTION (I.E. LIGHT SWITCHES, RECEPTACLES, ICE MAKER BOXES, ETC.) ARE ONLY PERMITTED WHEN AN APPROVED LISTED FIRE STOPPING SYSTEM EXISTS FOR THE APPLICATION. IF AN APPROVED LISTED FIRE STOPPING SYSTEM IS NOT AVAILABLE, THE CONTRACTOR MUST BRING THE CONDITION TO THE ATTENTION OF THE A/E FOR RESOLUTION PRIOR TO PROCEEDING WITH WORK.

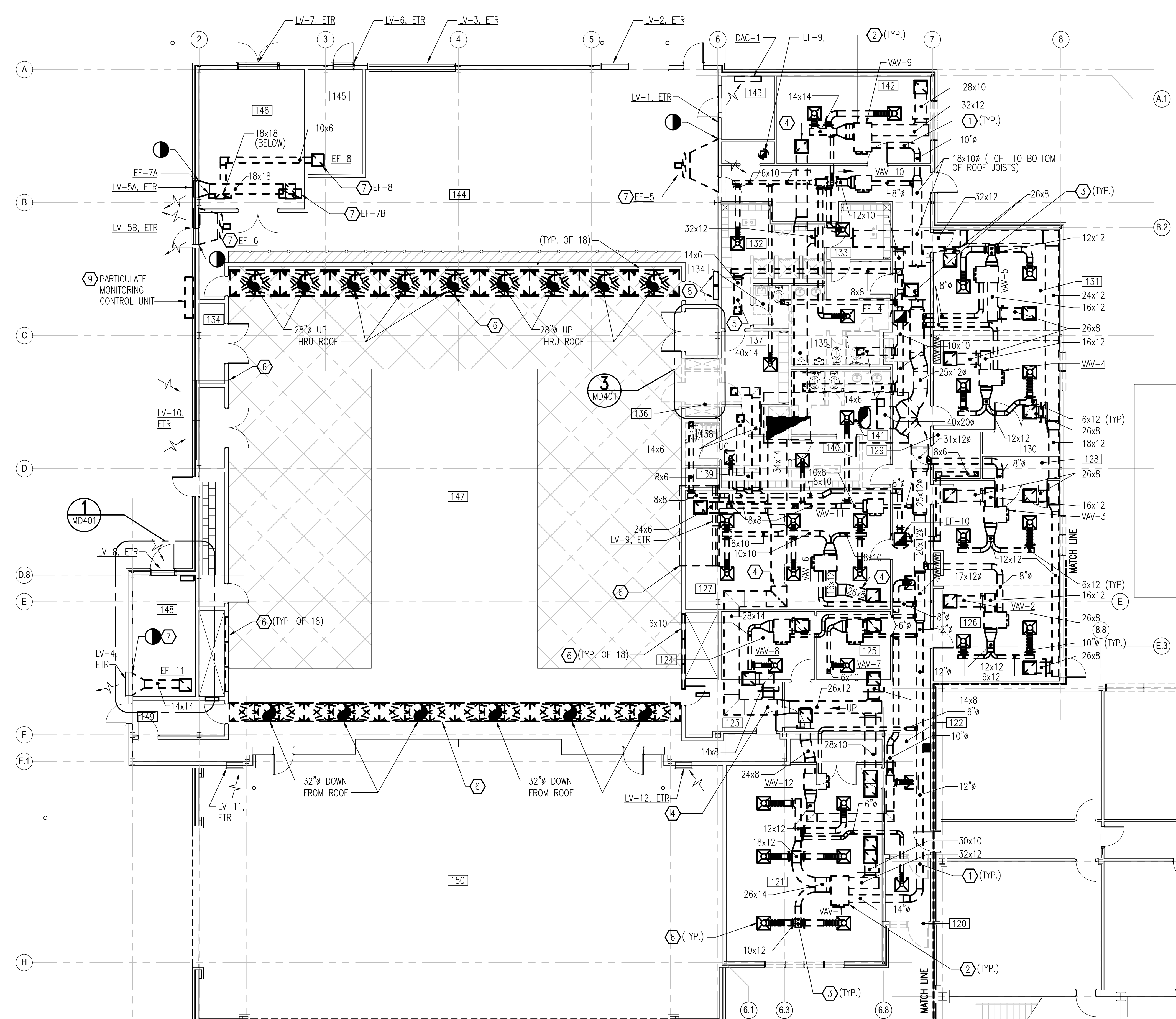


SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO. 7375939
NAVFAC DRAWING NO. 12816278
SHEET 67 OF 113
M-001

DRAWING REVISION: 10 MAY 2014

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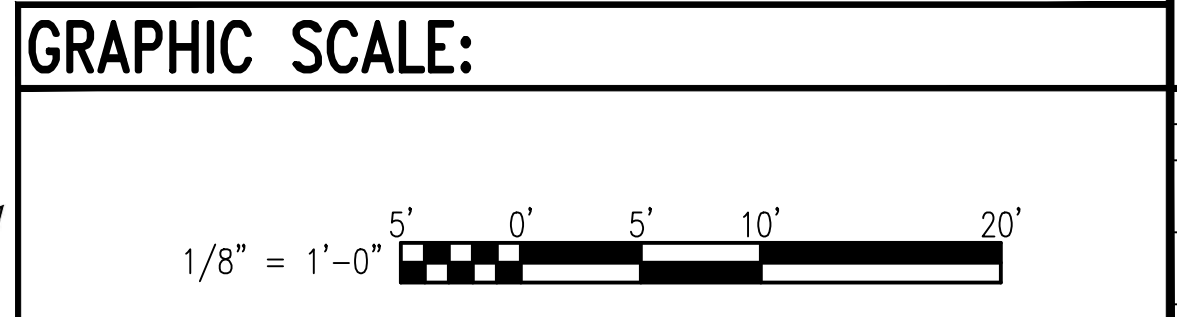
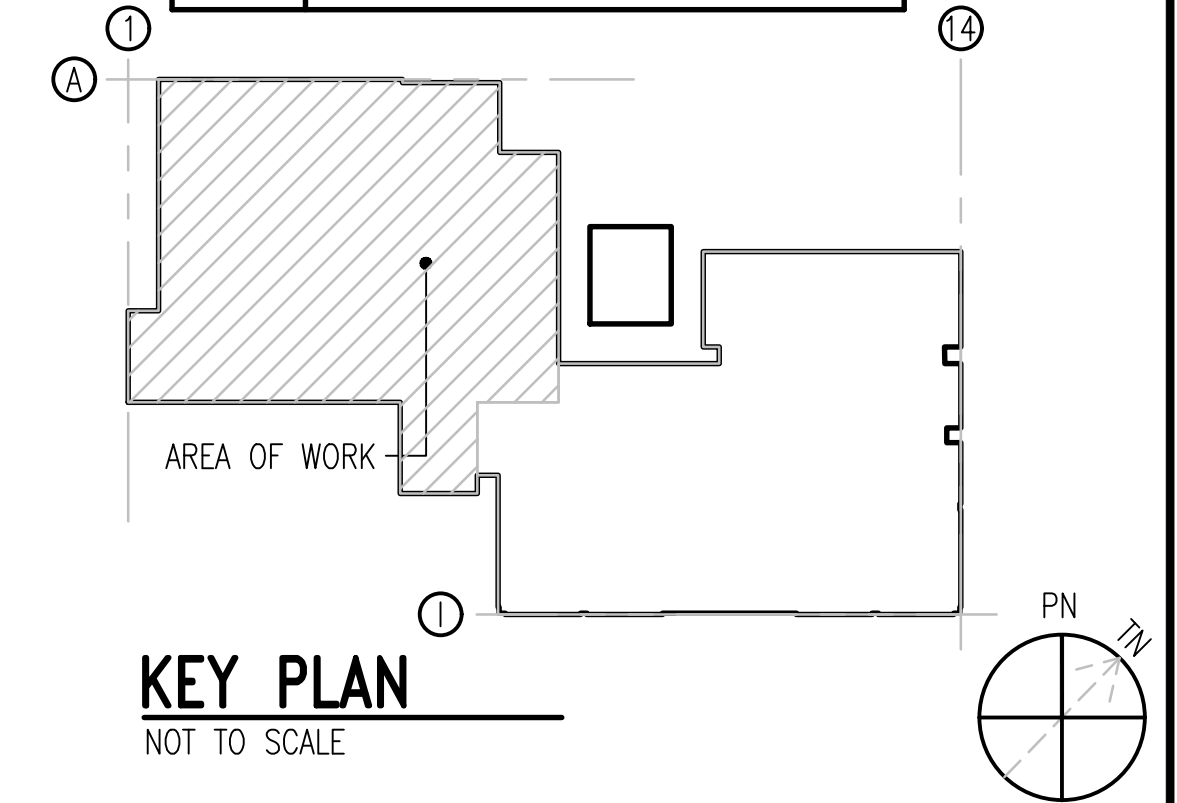
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DEMOLITION PARTIAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

- ### SHEET KEYNOTES
- 1 REMOVE MEDIUM PRESSURE DUCTWORK, INSULATION, HANGERS, AND SUPPORTS.
 - 2 REMOVE EXISTING FAN POWERED TERMINAL UNIT AND ASSOCIATED ACCESSORIES.
 - 3 REMOVE EXISTING LOW PRESSURE DUCTWORK, INSULATION, HANGERS, AND SUPPORTS.
 - 4 REMOVE EXISTING RETURN AIR DUCTWORK, INSULATION, HANGERS, AND SUPPORTS.
 - 5 REMOVE EXISTING EXHAUST AIR DUCTWORK, INSULATION, AND HANGERS AND SUPPORTS.
 - 6 REMOVE EXISTING AIR DEVICE. CLEAN AND REINSTALL. INSPECT AND CLEAN SUPPLY/EXHAUST AIR PLENUM. IF DAMAGE IS FOUND, ALERT THE COTR.
 - 7 REMOVE EXISTING EXHAUST FAN, ASSOCIATED ACCESSORIES, AND DUCTWORK. EXISTING LOUVERS TO REMAIN.
 - 8 EXISTING DDC PANELS. ENCLOSURES TO REMAIN. REMOVE EXISTING CONTROLS AND WIRING.
 - 9 REMOVE EXISTING PARTICULATE MONITORING UNITS. NEMA 4X ENCLOSURE TO REMAIN.

ROOM SCHEDULE	
120	VESTIBULE
121	OPEN OFFICE
122	CORRIDOR
123	VESTIBULE
124	SUPERVISOR
125	ADMIN
126	OPEN OFFICE
127	OPEN OFFICE
128	STORAGE
129	STORAGE
130	STORAGE
131	OPEN OFFICE
132	LOCKER ROOM
133	LOCKER ROOM
134	TOILET
135	MENS HEAD
136	BLAST DOWN
137	GEAR
138	TOILET
139	LOCKER ROOM
140	LOCKER ROOM
141	WOMENS HEAD
142	BREAK ROOM
143	COMM
144	BLAST EQUIPMENT
145	SPRINKLER
146	ELECTRICAL
147	PLASTIC MEDIA BLASTING FACILITY
148	STEAM ROOM
149	VESTIBULE
150	COVERED SPACE



APPR

DATE

DESCRIPTION

U.S. MARINE CORPS

COMMONWEALTH OF VIRGINIA
TIMOTHY N. HAHN
Lic. No. 058039
01/11/26
PROFESSIONAL ENGINEER

NRW ENGINEERING
Structural Consultants
748 Lord Dunmore Drive, Suite 101
Virginia Beach, VA 23464
Phone 757-474-0812
Fax 757-474-0919

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO

DES: GG DRW: MAT CHK: JAK

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE
BUILDING 4034, FRC-E
MECHANICAL DEMOLITION PARTIAL FLOOR PLAN - DUCTWORK

SCALE: AS NOTED

PROJECT NO.: XK11237

MAXIMO WORK ORDER NO.: 7375939

NAVFAC DRAWING NO.: 12816279

SHEET 68 OF 113

MD101

DRAWN/REVISION: 10 MAY 2014

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D

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B

A

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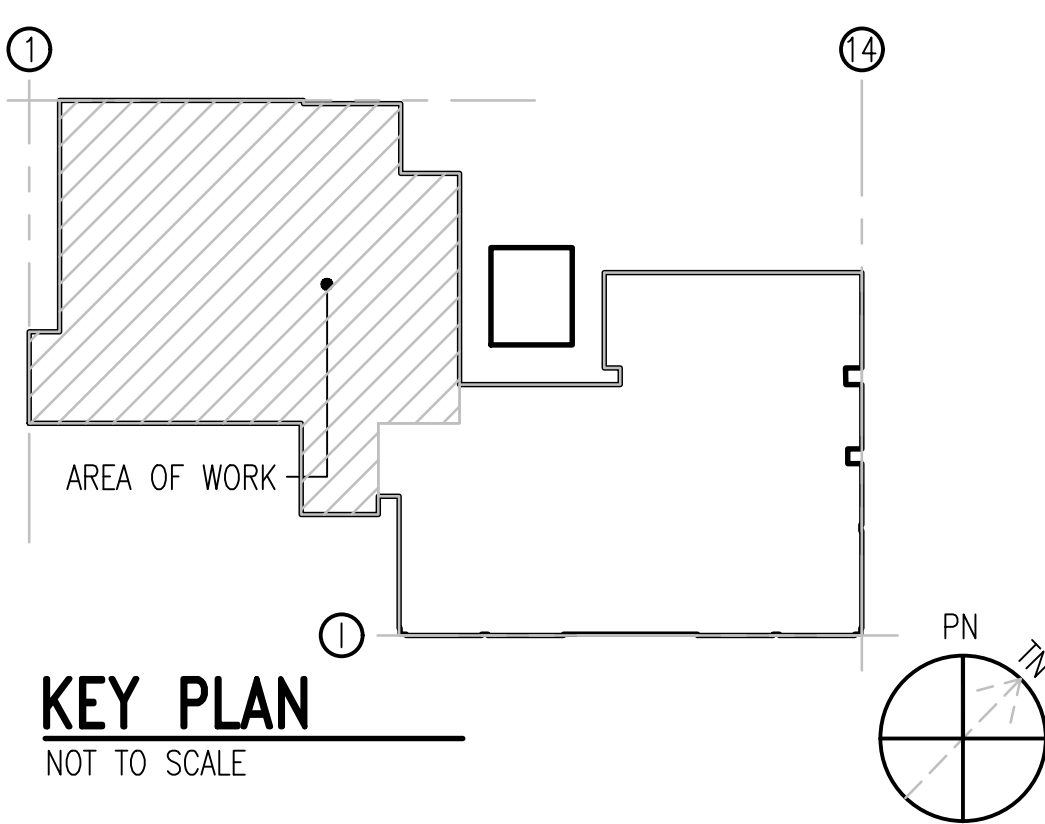
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DEMOLITION PARTIAL FLOOR PLAN

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

SHEET KEYNOTES

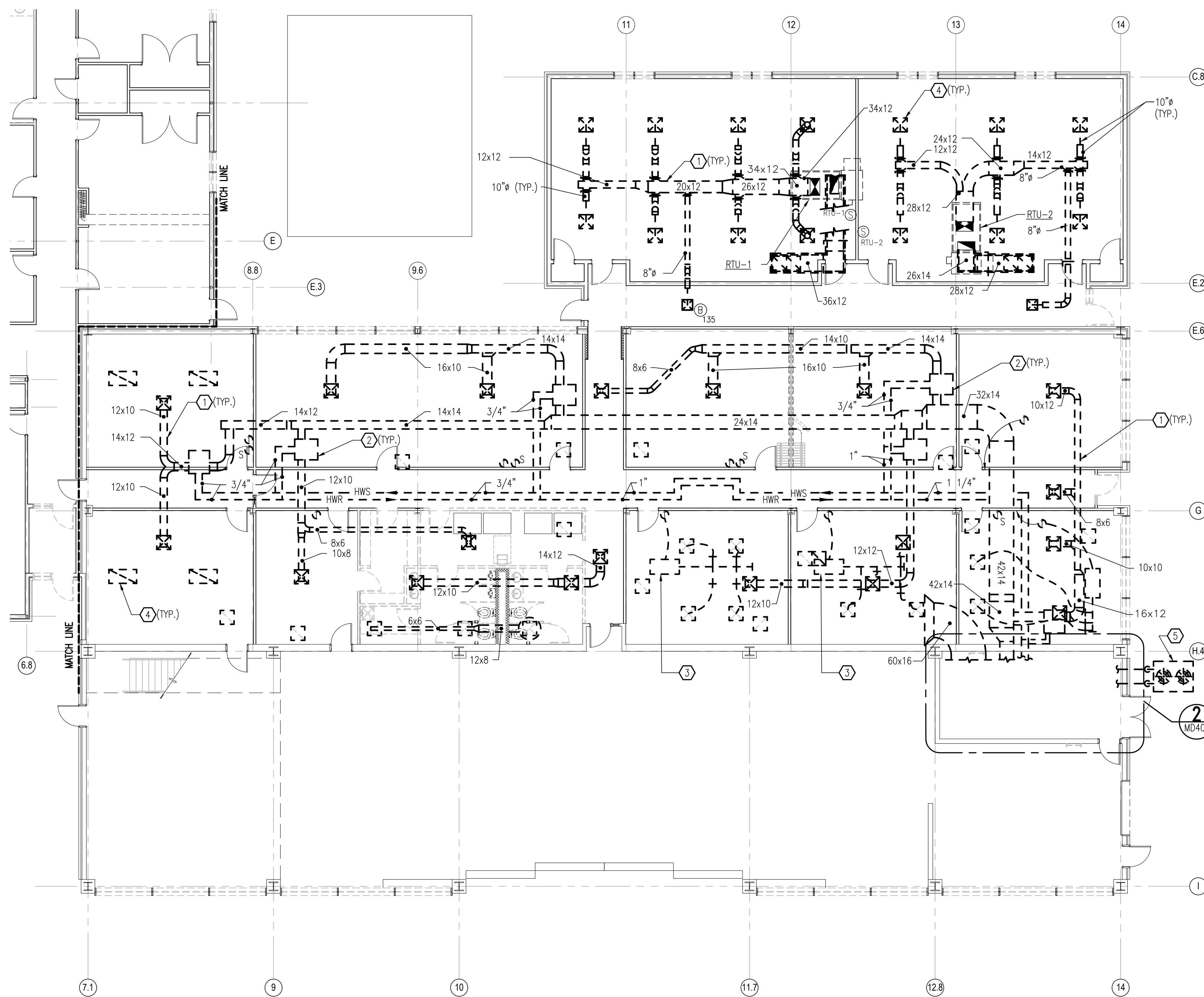
- 1 REMOVE STEAM PIPING AND STEAM CONDENSATE PIPING. REMOVE ALL ASSOCIATED ACCESSORIES.
- 2 REMOVE HEATING HOT WATER PIPING AND INSULATION. HANGERS TO REMAIN AND TO BE REUSED FOR NEW PIPING.
- 3 REMOVE TEMPERATURE SENSOR AND WIRING,
- 4 REMOVE HOT WATER UNIT HEATER AND ASSOCIATED ACCESSORIES.
- 5 REMOVE BREATHING AIR HOSE STATION. PREPARE FOR INSTALLATION OF NEW STATION.
- 6 DEMOLISH ABOVE CEILING-MOUNTED DEHUMIDIFIER, ASSOCIATED ACCESSORIES, AND DRAIN PIPING.



GRAPHIC SCALE:



APPROVED	DATE	DESCRIPTION
NRW ENGINEERING Structural Consultants 748 Lord Dunmore Drive, Suite 101 Virginia Beach, VA 23464 Phone 757-474-0812 Fax 757-474-0919		
APPROVED		
FOR COMMANDER NAVFAC		
ACTIVITY		
SATISFACTORY TO		
DES	GG	DRW MAT
CHK	JAK	
U.S. MARINE CORPS AIR STATION CHERRY POINT, NORTH CAROLINA REPAIR AND UPGRADE BUILDING 4034, FRC-E MECHANICAL DEMOLITION PARTIAL FLOOR PLAN - PIPING		
SCALE: AS NOTED		
PROJECT NO.: XK11237		
MAXIMO WORK ORDER NO. 7375939		
NAVFAC DRAWING NO. 12816280		
SHEET 69 OF 113		
MD102		
DRAWN/REVISED: 10 MAY 2014		

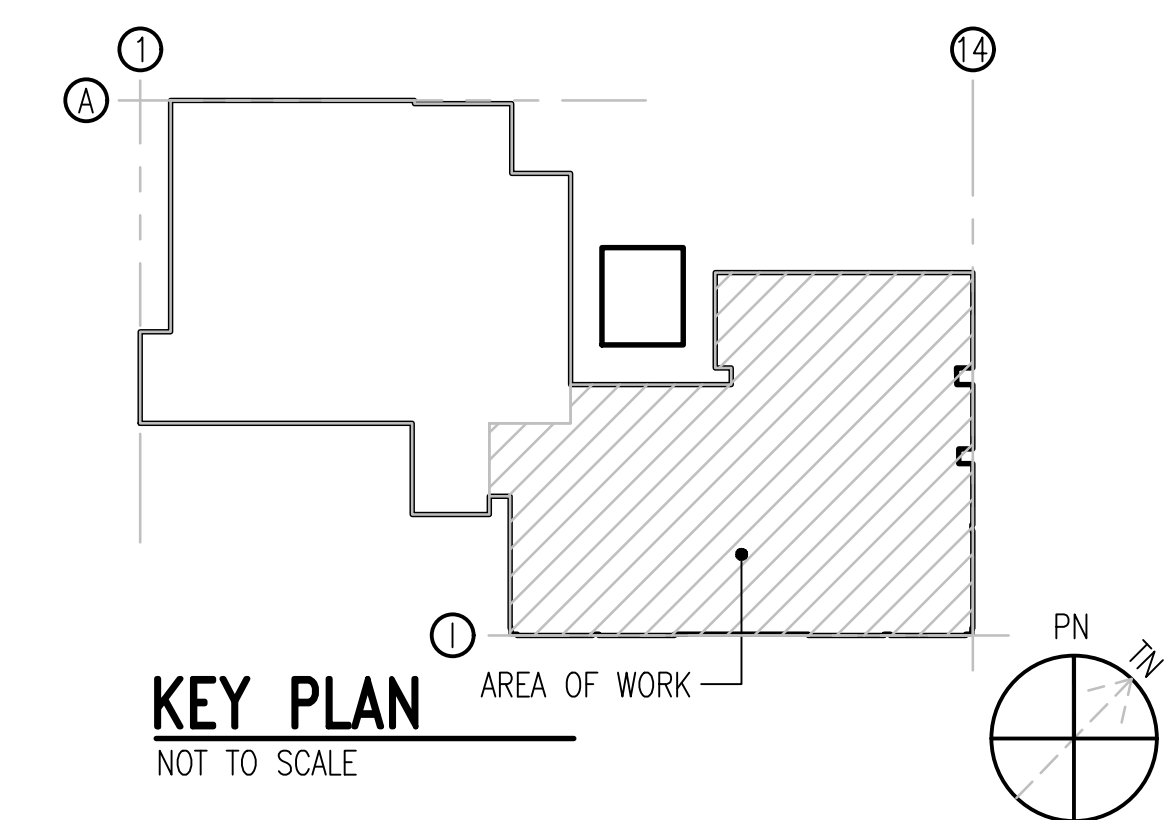


DEMOLITION PARTIAL FLOOR PLAN

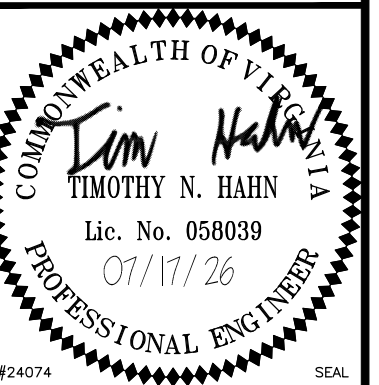
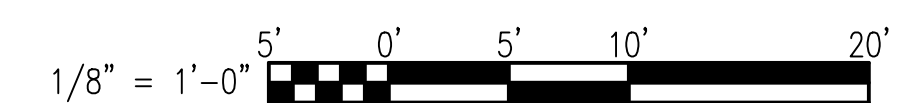
SCALE: $1/8" = 1'-0"$

SHEET KEYNOTES

- ① REMOVE ALL DUCTWORK, INSULATION, AND SUPPORTS.
- ② REMOVE EXISTING VARIABLE VOLUME TERMINAL UNIT AND ASSOCIATED ACCESSORIES.
- ③ REMOVE EXISTING SPLIT SYSTEM AIR HANDLER, REFRIGERANT PIPING, AND ASSOCIATED ACCESSORIES.
- ④ REMOVE EXISTING AIR DEVICES AND ASSOCIATED DUCTWORK.
- ⑤ REMOVE AIR COOLED CONDITIONING UNIT (25 TON) AND ASSOCIATED ACCESSORIES. REMOVE REFRIGERANT PIPING BELOW GRADE, CAP AND ABANDON.



GRAPHIC SCALE:



NRW ENGINEERING

Structural Consultants
448 Lord Dunmore Drive, Suite 101
Virginia Beach, VA 23464
Phone 757-474-0612
Fax 757-474-0919

A/E INFO

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO

DES	GG	DRW	MAT	CHK	JAK
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U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
**REPAIR AND UPGRADE
BUILDING 4034, FRC-E**

MECHANICAL DEMOLITION PARTIAL FLOOR PLAN

SCALE: AS NOTED

PROJECT NO.: XK11237

MAXIMO WORK ORDER NO.

7375939

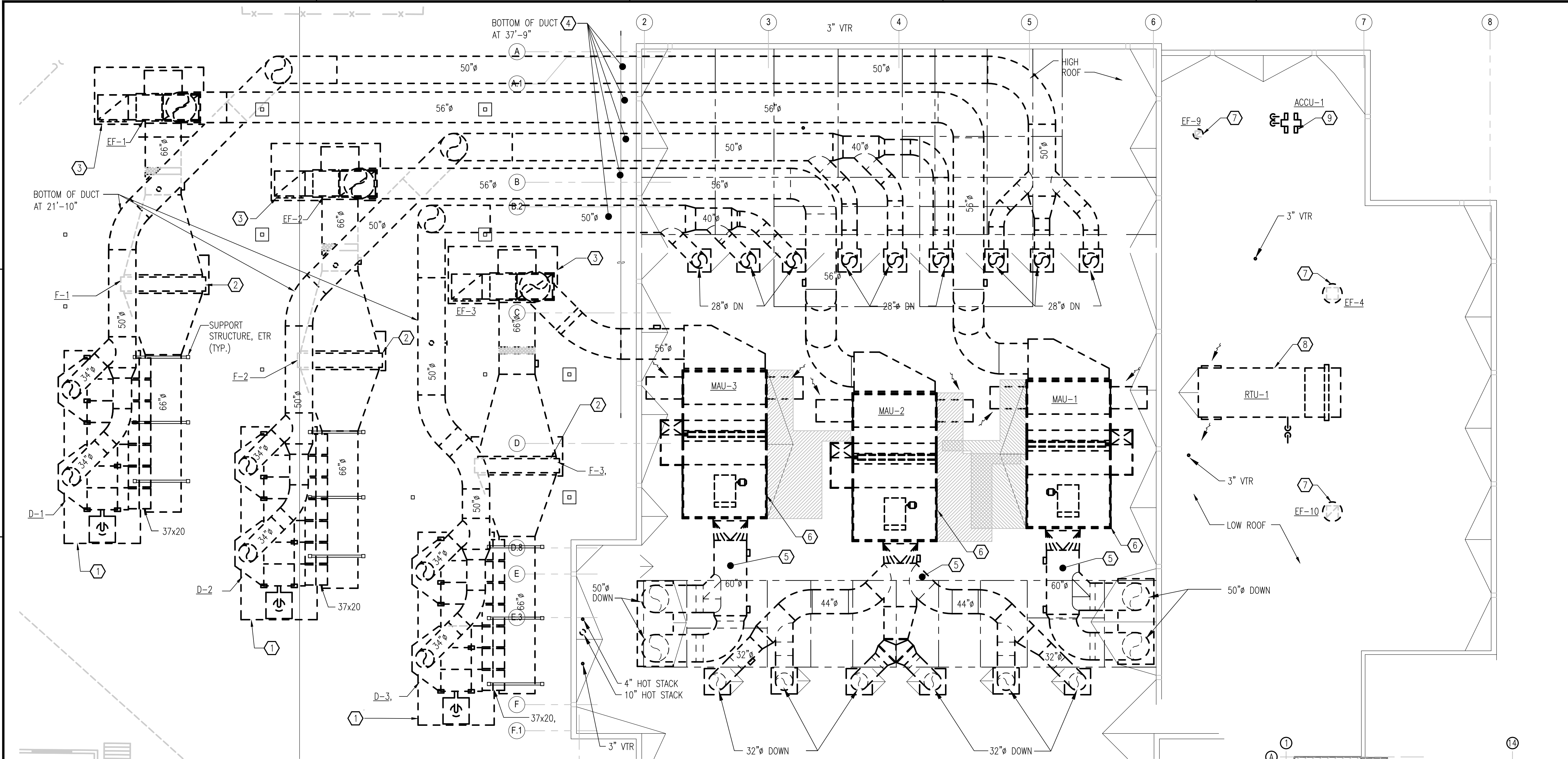
NAVFAC DRAWING NO.

MD103

DRAWFORM REVISION: 10 MAY 2014

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DEMOLITION PARTIAL ROOF PLAN AND EXTERIOR EQUIPMENT

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

SHEET KEYNOTES

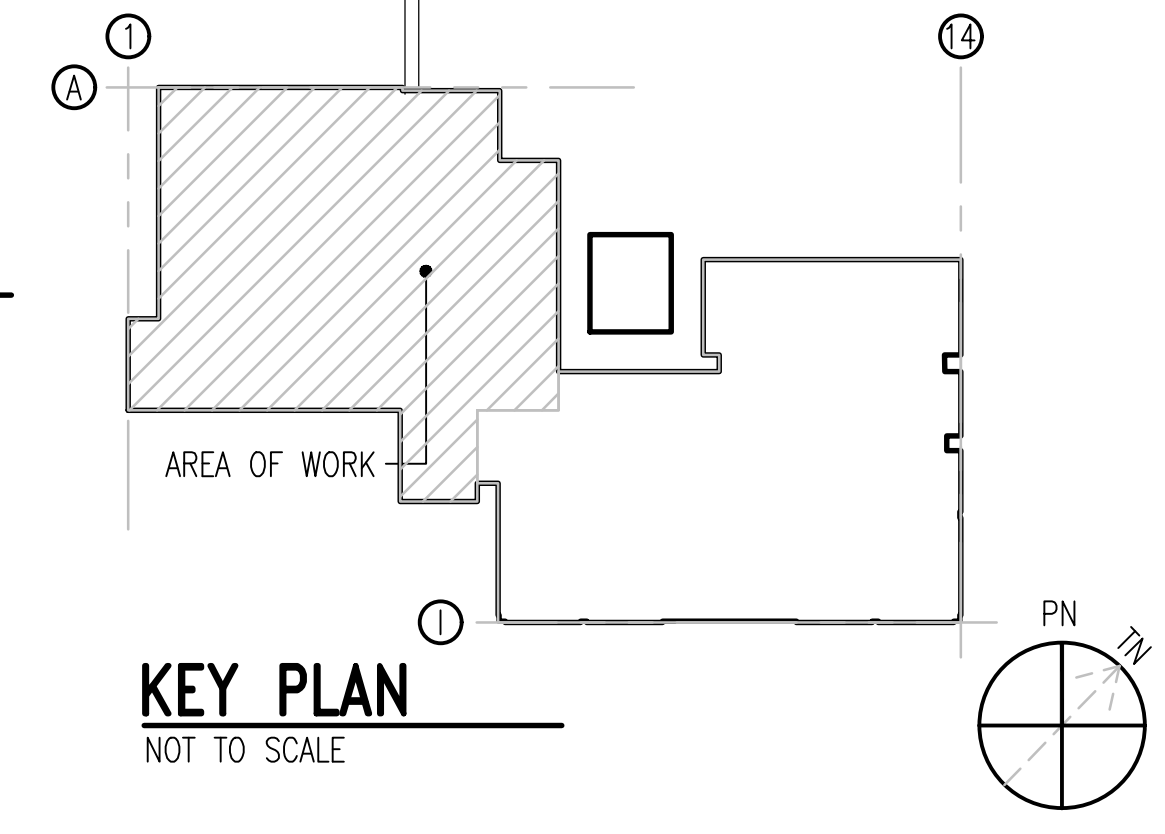
- 1 REMOVE EXISTING 50,000 CFM DUST COLLECTOR AND ASSOCIATED ACCESSORIES.
- 2 REMOVE EXISTING HEPA FILTER BANK AND ASSOCIATED ACCESSORIES.
- 3 REMOVE EXISTING 150 HP UTILITY TYPE EXHAUST FAN AND ASSOCIATED DISCHARGE STACK.
- 4 REMOVE EXISTING DUCTWORK AND INSULATION. EXISTING SUPPORT STRUCTURES TO REMAIN.
- 5 REMOVE EXISTING SUPPLY DUCTWORK INSULATION AND ASSOCIATED ACCESSORIES.
- 6 REMOVE EXISTING 50,000 CFM MAKE-UP AIR UNIT AND ASSOCIATED ACCESSORIES.
- 7 REMOVE EXISTING EXHAUST FAN, ROOF CURB, AND ASSOCIATED ACCESSORIES.
- 8 REMOVE EXISTING 30 TON VARIABLE VOLUME PACKAGE ROOF TOP UNIT AND ASSOCIATED ACCESSORIES.
- 9 REMOVE EXISTING CONDENSING UNIT AND ASSOCIATED ACCESSORIES.

HVAC AND PMB EQUIPMENT DEMOLITION NOTE:

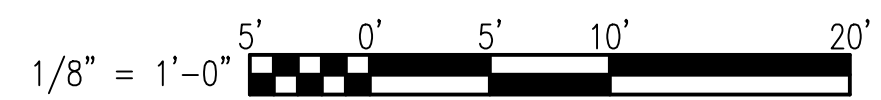
CONTRACTOR SHALL PROVIDE THE FOLLOWING TO CTOR:
ASSET NUMBER
UNIT SIZE
NAME
PLANT ACCOUNT
REFRIGERANT TYPE
REFRIGERANT MASS/VOLUME REMOVAL
PROVIDE INFORMATION ABOVE AS APPLICABLE TO THE FOLLOWING: DUST COLLECTORS, FILTER BANKS, PMB PROCESS EQUIPMENT, MAU'S, RTU'S, ACU'S, FANS, AND ALL HVAC EQUIPMENT.

PMB EQUIPMENT DEMO NOTE:

ALL EQUIPMENT AND EXHAUST SYSTEM ASSOCIATED WITH PMB PROCESS, INCLUDING PMB BOOTH VENTILATION SYSTEM AND DUCTWORK, SHALL BE TAKEN OFF BASE TO A LICENSED FACILITY, DECONTAMINATED AND DISPOSED OF IN AN APPROVED MANNER. PROVIDE PROPER PROTECTION DURING TRANSPORT TO DECONTAMINATION FACILITY. PROVIDE DOCUMENTATION OF PROPER DISPOSAL.



GRAPHIC SCALE:

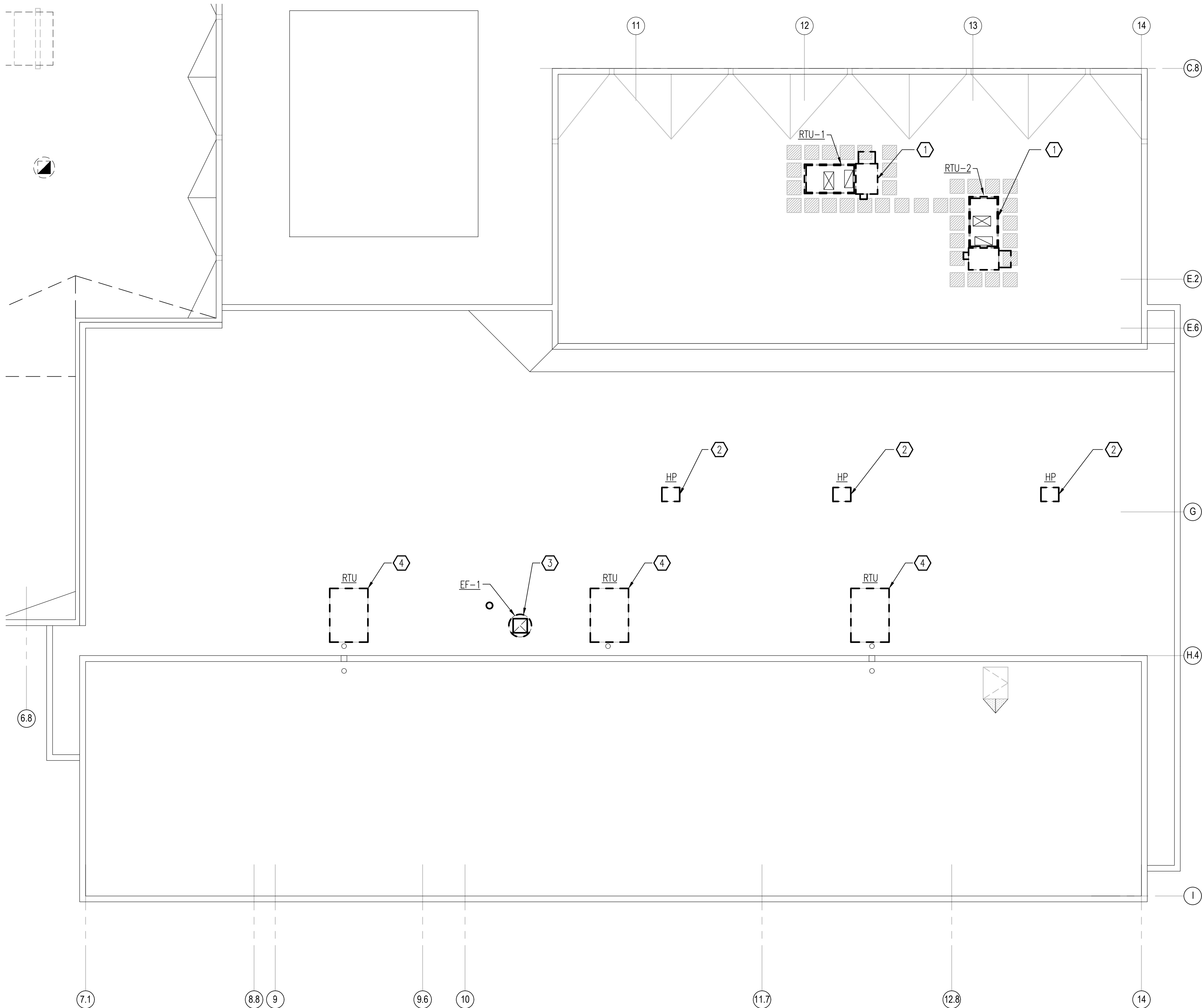


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ACTIVITY			
SATISFACTORY TO			
DES	GG	DRW	MAT
CHK	JAK		
U.S. MARINE CORPS AIR STATION CHERRY POINT, NORTH CAROLINA REPAIR AND UPGRADE BUILDING 4034, FRC-E MECHANICAL DEMOLITION PARTIAL ROOF PLAN AND EXTERIOR			
SCALE: AS NOTED			
PROJECT NO.: XK11237			
MAXIMO WORK ORDER NO. 7375939			
NAVFAC DRAWING NO. 12816282			
SHEET 71 OF 113			
MD104			
DRAWING REVISION: 10 MAY 2014			

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DEMOLITION PARTIAL ROOF PLAN

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

- SHEET KEYNOTES**
- 1 REMOVE EXISTING ROOF TOP UNIT AND ASSOCIATED ACCESSORIES. ROOF CURB TO REMAIN.
 - 2 REMOVE EXISTING SPLIT SYSTEM CONDENSING UNIT AND ASSOCIATED ACCESSORIES.
 - 3 REMOVE EXISTING EXHAUST FAN AND ASSOCIATED ACCESSORIES. ROOF CURB TO REMAIN.
 - 4 REMOVE RTU AND STORE UNTIL NEW WORK PHASE TO ALLOW RE-ROOFING. EQUIPMENT SUPPORT RAILS MUST REMAIN. DISCONNECT SUPPLY AND RETURN DUCTWORK FROM RTU AND TEMPORARILY SUPPORT DUCTWORK. SEAL OPEN ENDED DUCTWORK WEATHER TIGHT. PERFORM PRE-TAB PRIOR TO DEMOLITION OF RTU.

PRE-TAB NOTE:

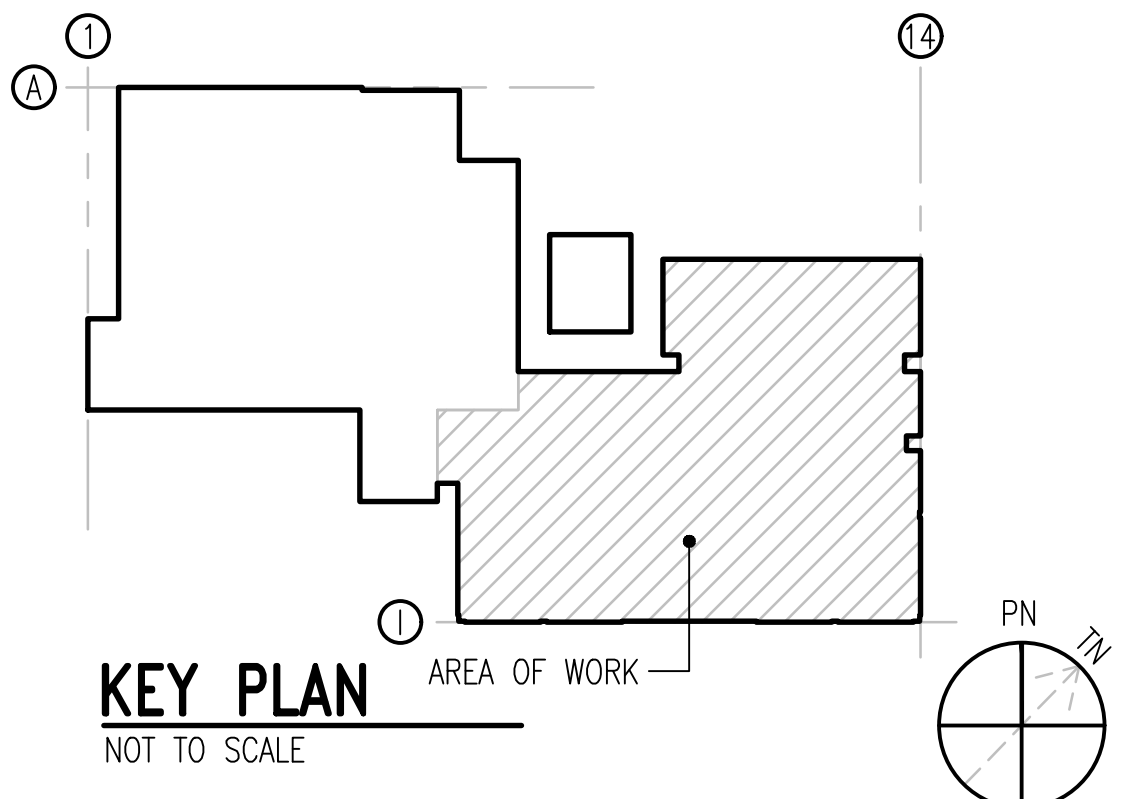
PERFORM AN AIRSIDE PRE-BALANCE (AIRFLOW, TEMPERATURE AND TOTAL STATIC PRESSURE) ON RTU PRIOR TO ANY DEMOLITION WORK. SUBMIT PRE-BALANCE DATA TO COTR FOR REVIEW AND APPROVAL.

HVAC AND PMB EQUIPMENT DEMOLITION NOTE:

CONTRACTOR SHALL PROVIDE THE FOLLOWING TO COTR:

ASSET NUMBER
UNIT SIZE
NAME
PLANT ACCOUNT
REFRIGERANT TYPE
REFRIGERANT MASS/VOLUME REMOVED

PROVIDE INFORMATION ABOVE AS APPLICABLE TO THE FOLLOWING:
DUST COLLECTORS, FILTER BANKS, PMB PROCESS EQUIPMENT, MAU'S, RTU'S, ACU'S, FANS, AND ALL HVAC EQUIPMENT.



GRAPHIC SCALE:



APPR	DATE	DESCRIPTION
APPROVED		
FOR COMMANDER NAVFAC		
ACTIVITY		
SATISFACTORY TO		
DES	GG	DRW MAT
CHK	JAK	
U.S. MARINE CORPS AIR STATION		
CHERRY POINT, NORTH CAROLINA		
REPAIR AND UPGRADE		
BUILDING 4034, FRC-E		
MECHANICAL DEMOLITION PARTIAL ROOF PLAN		
SCALE: AS NOTED		
PROJECT NO.: XK11237		
MAXIMO WORK ORDER NO. 7375939		
NAVFAC DRAWING NO. 12816283		
SHEET 72 OF 113		
MD105		
DRAWING REVISION: 10 MAY 2014		

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NEW WORK PARTIAL FLOOR PLAN

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

SHEET KEYNOTES

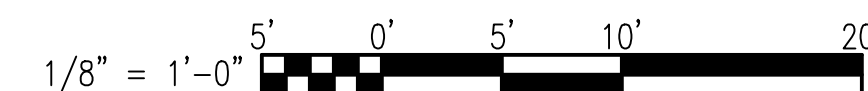
- EXISTING DDC PANELS. INSTALL NEW CONTROLS AND WIRING. CABINETS TO REMAIN.
- INSTALL NEW AIR MONITORING CONTROLLERS IN AN EXISTING ENCLOSURE.
- PROVIDE SHEET METAL PLENUM BOX. 24" DEEP.
- 10x8 UP TO EF-10 ON ROOF.
- RELIEF INTAKE LOUVERS AND DAMPERS TO REMAIN.
- PROVIDE SURFACE MOUNTED DIFFUSERS AND GRILLES WITH PLASTER FRAME. INSTALL DAMPER WITHIN 2' OF AIR DEVICE. ACCESS TO DAMPER SHALL BE THROUGH PLASTER FRAME BY LIFTING AIR DEVICE OUT OF THE WAY.
- REINSTALL PERFORATED GRILLES SALVAGED DURING DEMOLITION.
- PROVIDE PARTICULAR MATTER MONITOR. MOUNT 6-8 FEET ABOVE FINISHED FLOOR.
- PROVIDE VISUAL INDICATOR ADJACENT TO DOOR.

ROOM SCHEDULE

120	VESTIBULE
121	OPEN OFFICE
122	CORRIDOR
123	VESTIBULE
124	SUPERVISOR
125	ADMIN
126	OPEN OFFICE
127	OPEN OFFICE
128	STORAGE
129	STORAGE
130	STORAGE
131	OPEN OFFICE
132	LOCKER ROOM
133	LOCKER ROOM
134	TOILET
135	MENS HEAD
136	BLAST DOWN
137	GEAR
138	TOILET
139	LOCKER ROOM
140	LOCKER ROOM
141	WOMENS HEAD
142	BREAK ROOM
143	COMM
144	BLAST EQUIPMENT
145	SPRINKLER
146	ELECTRICAL
147	PLASTIC MEDIA BLASTING FACILITY
148	STEAM ROOM
149	VESTIBULE
150	COVERED SPACE

KEY PLAN
NOT TO SCALE

GRAPHIC SCALE:

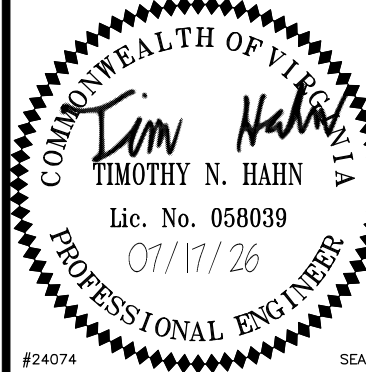


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DATE

SYN

DESCRIPTION



NRW ENGINEERING
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748 Lord Dunmore Drive, Suite 101
Virginia Beach, VA 23464
Phone 757-474-0812
Fax 757-474-0919

APPROVED

A/E: NRW

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO

BES: GG | DRW: MAT | CHK: JAK

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE
BUILDING 4034, FRC-E
MECHANICAL NEW WORK PARTIAL FLOOR PLAN - DUCTWORK

SCALE: AS NOTED

PROJECT NO.: XK11237

MAXIMO WORK ORDER NO.: 7375939

NAVFAC DRAWING NO.: 12816285

SHEET 74 OF 113

M-101

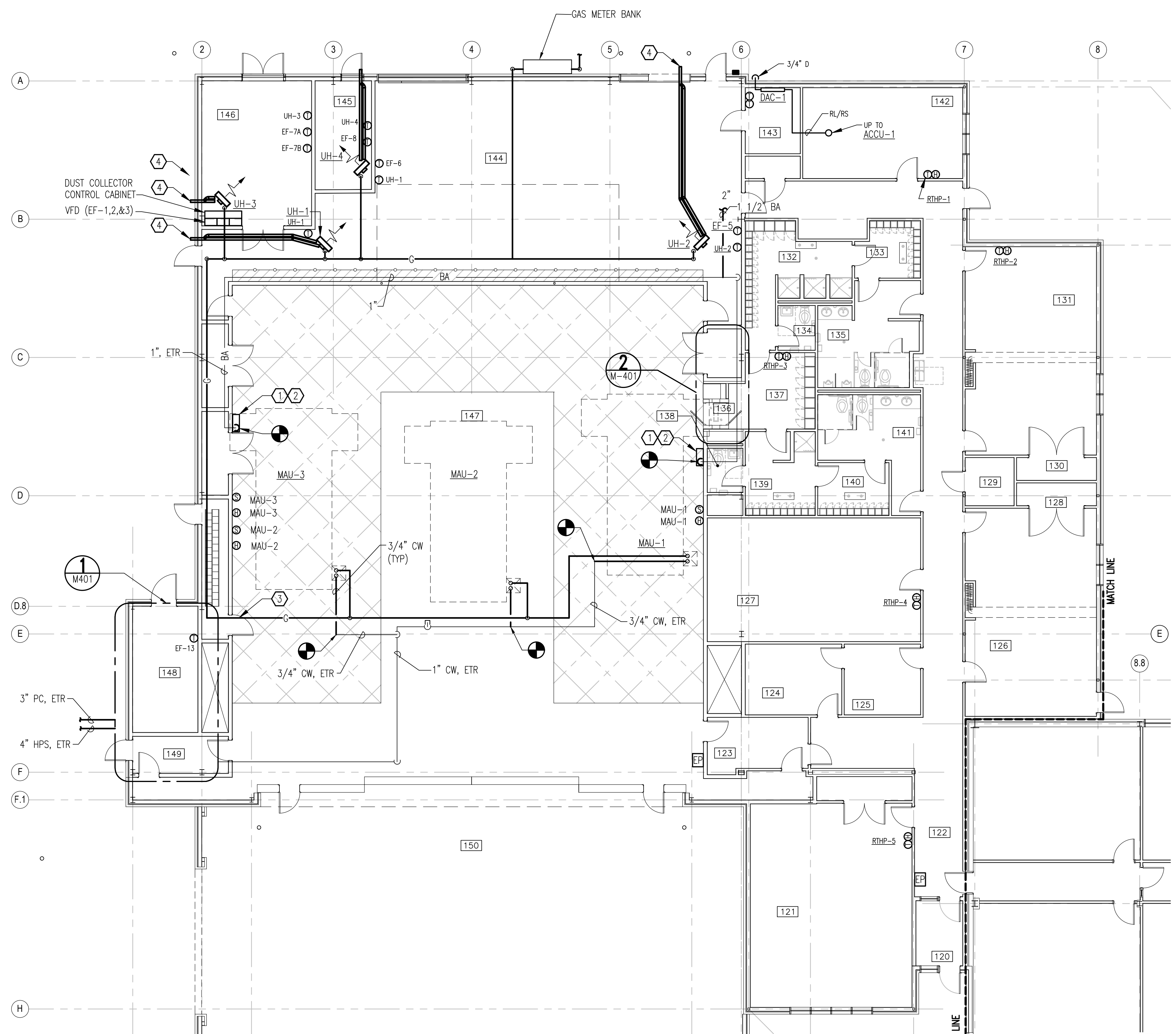
DRAWING REVISION: 10 MAY 2014



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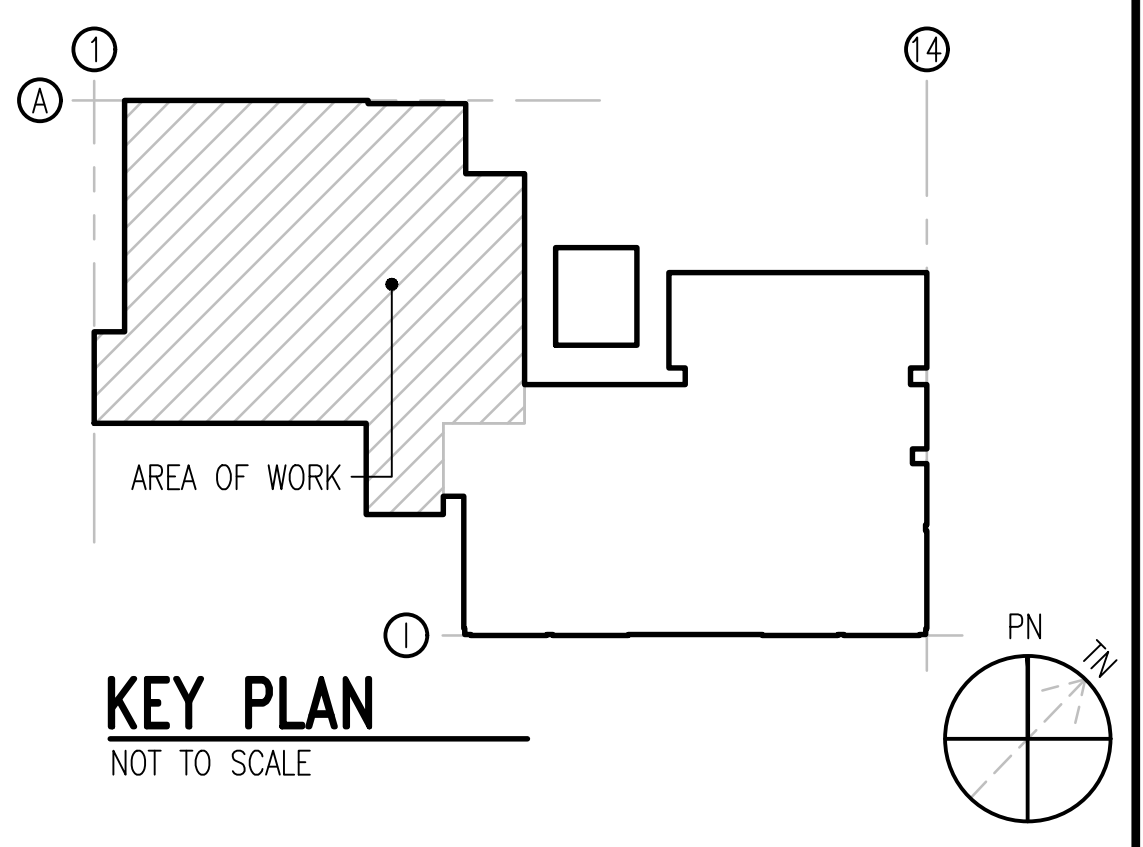
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- ### SHEET KEYNOTES
- 1 PROVIDE BREATHING AIR CONTROL PANEL, AIR SYSTEM INTERNATIONAL MODEL B150-COMP OR EQUAL. 3-STAGE FILTRATION TO PROVIDE GRADE-D QUALITY AIR WITH CO AND O2 MONITORING. CONNECT TO EXISTING BREATHING AIR LINE. PROVIDE REMOTE AUDIO/VISUAL ALARMS, MOUNT ABOVE EACH BREATHING AIR QUICK CONNECT HEADER. PROVIDE ENCLOSURE PANEL, REPLACEMENT FILTER KIT, AND CALIBRATION KIT.
 - 2 PROVIDE BREATHING AIR QUICK CONNECT HEADER, CONSISTING OF FOUR (4) BREATHING AIR CONNECTIONS. SEE DETAIL ON M-504.
 - 3 ROUTE NATURAL GAS PIPING ABOVE CEILING.
 - 4 PROVIDE VENTILATION AND COMBUSTION PIPING, HANGERS, AND SUPPORTS COMPLETE. TERMINATE WITH CONCENTRIC VENT.

ROOM SCHEDULE	
120	VESTIBULE
121	OPEN OFFICE
122	CORRIDOR
123	VESTIBULE
124	SUPERVISOR
125	ADMIN
126	OPEN OFFICE
127	OPEN OFFICE
128	STORAGE
129	STORAGE
130	STORAGE
131	OPEN OFFICE
132	LOCKER ROOM
133	LOCKER ROOM
134	TOILET
135	MENS HEAD
136	BLAST DOWN
137	GEAR
138	TOILET
139	LOCKER ROOM
140	LOCKER ROOM
141	WOMENS HEAD
142	BREAK ROOM
143	COMM
144	BLAST EQUIPMENT
145	SPRINKLER
146	ELECTRICAL
147	PLASTIC MEDIA BLASTING FACILITY
148	STEAM ROOM
149	VESTIBULE
150	COVERED SPACE



NEW WORK PARTIAL FLOOR PLAN
SCALE: 1/8" = 1'-0"



APPR
DATE
DESCRIPTION
SYN

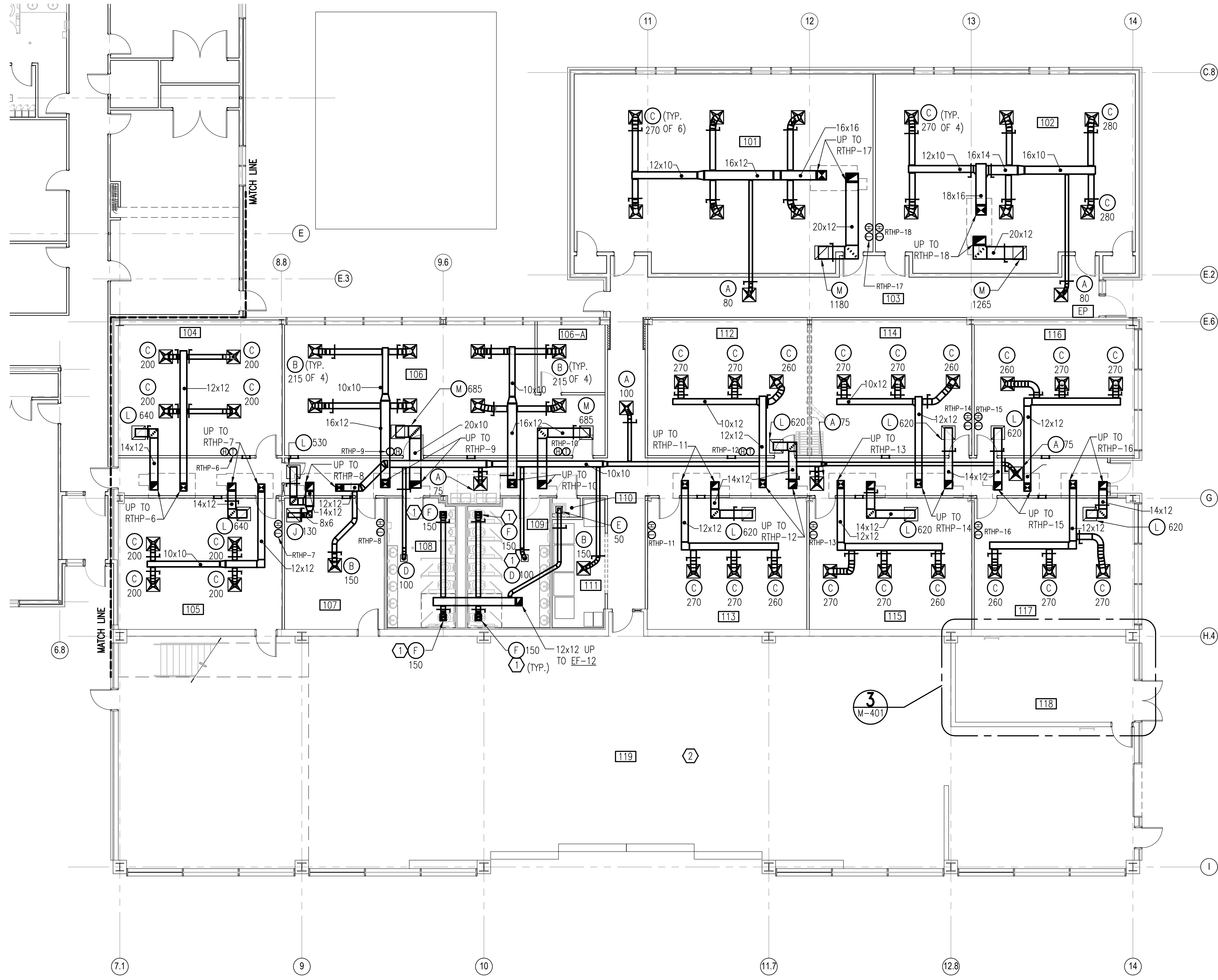
COMMONWEALTH OF VIRGINIA
Timothy N. Hahn
Lic. No. 058039
01/11/26
PROFESSIONAL ENGINEER
#24074

NRW ENGINEERING
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ACTIVITY
SATISFACTORY TO
DES: GG | DRW: MAT | CHK: JAK

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE
BUILDING 4034, FRC-E
MECHANICAL NEW WORK PARTIAL FLOOR PLAN - PIPING

SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO.: 7375939
NAVFAC DRAWING NO.: 12816286
SHEET 75 OF 113
M-102
DRAWING REVISION: 10 MAY 2014

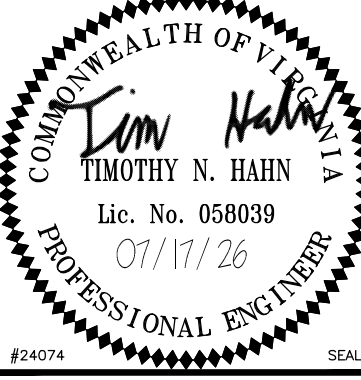


SHEET KEYNOTES

- 1 BALANCING DAMPER ACCESS THROUGH PLASTER FRAME OF AIR DEVICE. INSTALL DAMPER WITHIN 24" OF AIR DEVICE.
- 2 PROVIDE TEMPORARY HEATING/COOLING FOR RUBBER SHOP DURING ROOF AND WINDOW REPLACEMENT. CAPACITY TO MATCH EXISTING.

ROOM SCHEDULE

101	CLASSROOM
102	CLASSROOM
103	CORRIDOR
104	OFFICE
105	CLASSROOM
106	OPEN OFFICE
107	OFFICE
108	MENS HEAD
109	WOMENS HEAD
110	JANITOR
111	VENDING
112	CLASSROOM
113	CLASSROOM
114	CLASSROOM
115	CLASSROOM
116	CLASSROOM
117	CLASSROOM
118	MECHANICAL ROOM
119	RUBBER SHOP



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ACTIVITY
SATISFACTORY TO
DES: GG DRW: MAT CHK: JAK

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE
BUILDING 4034, FRC-E
MECHANICAL NEW WORK PARTIAL FLOOR PLAN

SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO.: 7375939
NAVFAC DRAWING NO.: 12816287
SHEET 76 OF 113
M-103
DRAWING REVISION: 10 MAY 2014

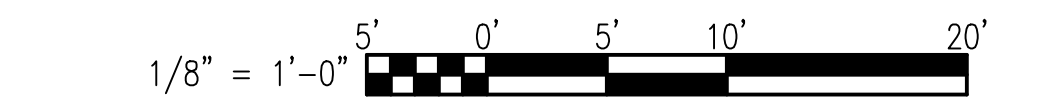
NEW WORK PARTIAL FLOOR PLAN

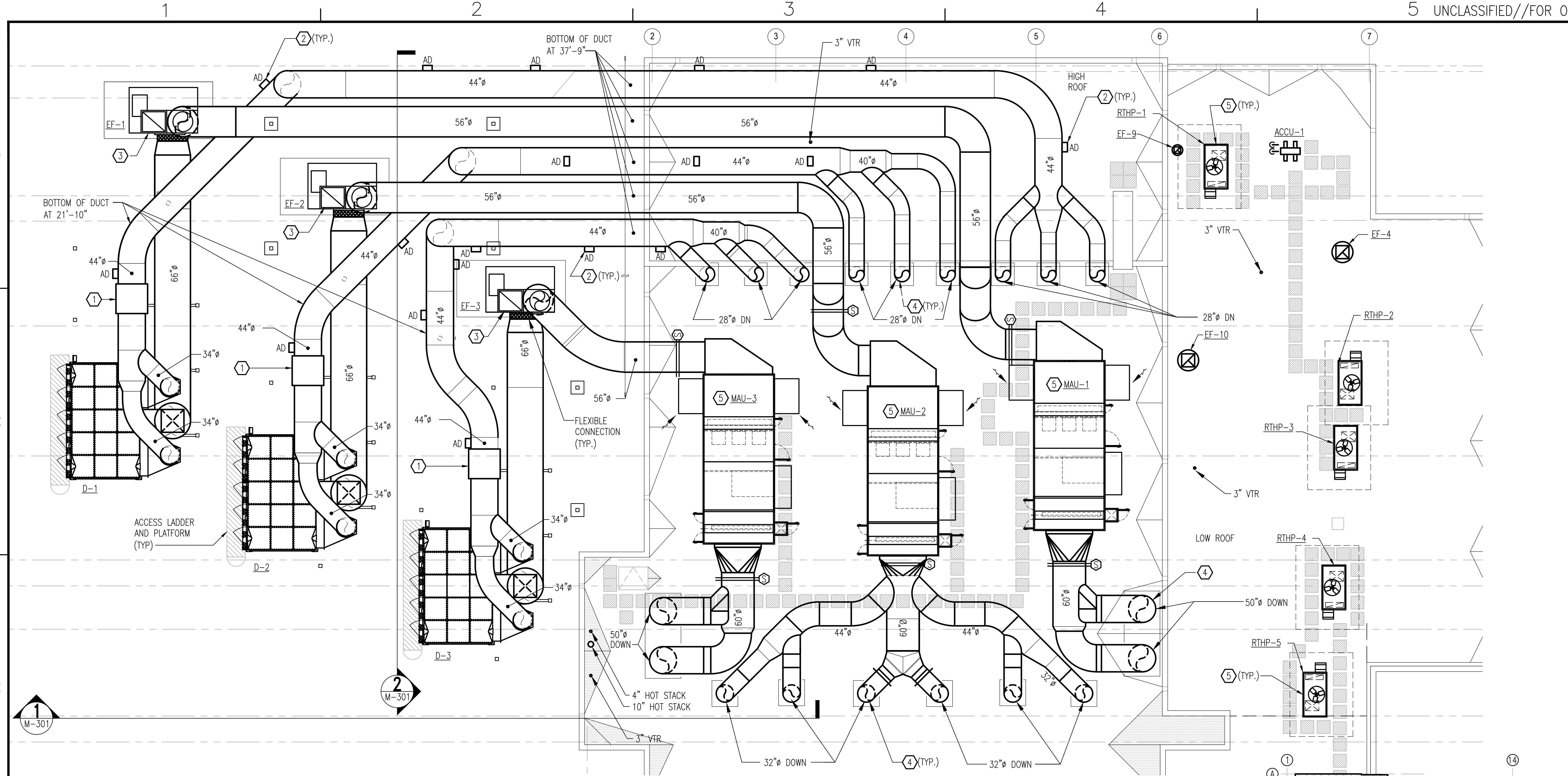
SCALE: 1/8" = 1'-0"

KEY PLAN

NOT TO SCALE

GRAPHIC SCALE:





NEW WORK PARTIAL ROOF PLAN AND EXTERIOR EQUIPMENT

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

SHEET KEYNOTES

- 1 PROVIDE A NO RETURN VALVE/CHECK VALVE IN DUST COLLECTOR INLET DUCT. MAINTAIN MANUFACTURER'S STRAIGHT LENGTH OF DUCT REQUIREMENTS. PROVIDE ALL REQUIRED SENSORS AND CONTROLS FOR A FULLY FUNCTIONING SYSTEM.
- 2 PROVIDE DUST CLEAN OUT DOORS IN HORIZONTAL RUNOUTS, NEAR ELBOWS, JUNCTIONS, AND VERTICAL RUNOUTS; SEE DETAIL ON M501. DOORS IN HORIZONTAL RUNS SHALL BE LOCATED NOT MORE THAN 16' APART.
- 3 PROVIDE 56-36 DISCHARGED STACK. EXTEND DISCHARGE STACK 10' ABOVE ROOF. PROVIDE GUY WIRE SUPPORTS, ATTACH TO EXISTING STRUCTURE. REFER TO DETAIL ON M-504.
- 4 REUSE EXISTING PENETRATION THROUGH THE ROOF. PROVIDE NEW FLASHING.
- 5 PROVIDE NEW ROOF CURB AND ASSOCIATED APPURTENANCES COMPLETE. SPILL CONDENSATE ONTO ROOF.

EXTERIOR DUCTWORK NOTE:

ALL EXTERIOR DUCTWORK SHALL BE DOUBLE WALL, PRE-MANUFACTURED, PRE-INSULATED WITH MANUFACTURER'S SEALS AND FINISH:
EXHAUST DUCT (FROM BUILDING TO DC AND DC TO EF)
26"-40" - INNER DUCT PER SECTION 23 35 19.00 20/ OUTER DUCT 22 GAUGE
50"-66" - INNER DUCT PER SECTION 23 35 19.00 20/ OUTER DUCT 22 GAUGE
SUPPLY DUCT (FROM EF TO MAU AND MAU TO BUILDING)
32" - INNER DUCT 22 GAUGE/ OUTER DUCT 27 GAUGE
44" - INNER DUCT 20 GAUGE/ OUTER DUCT 22 GAUGE
60" - INNER DUCT 18 GAUGE/ OUTER DUCT 22 GAUGE
INNER DUCT SHALL BE SOLID. INSULATION- MINIMUM R-8 VALUE.
EXHAUST DUCT- SMACNA PRESSURE CLASS 8
SUPPLY DUCT- SMACNA PRESSURE CLASS 2
OUTER DUCT JACKET - 3M VENTURE CLAD OR EQUIVALENT.

EXTERIOR DUCT SUPPORT NOTE:

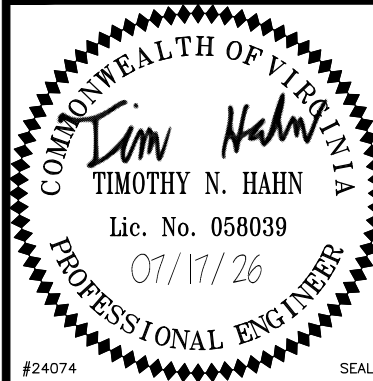
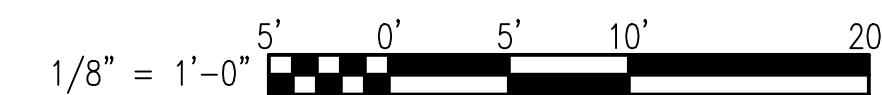
CONTRACTOR TO REUSE/MODIFY EXISTING EXTERIOR DUCT SUPPORTS AS NEEDED.

PMB AREA GROUNDING/BONDING NOTE:

ALL EQUIPMENT AND DUCTWORK ASSOCIATED WITH PMB AREA SHALL BE GROUNDED AND BONDED.

KEY PLAN
NOT TO SCALE

GRAPHIC SCALE:



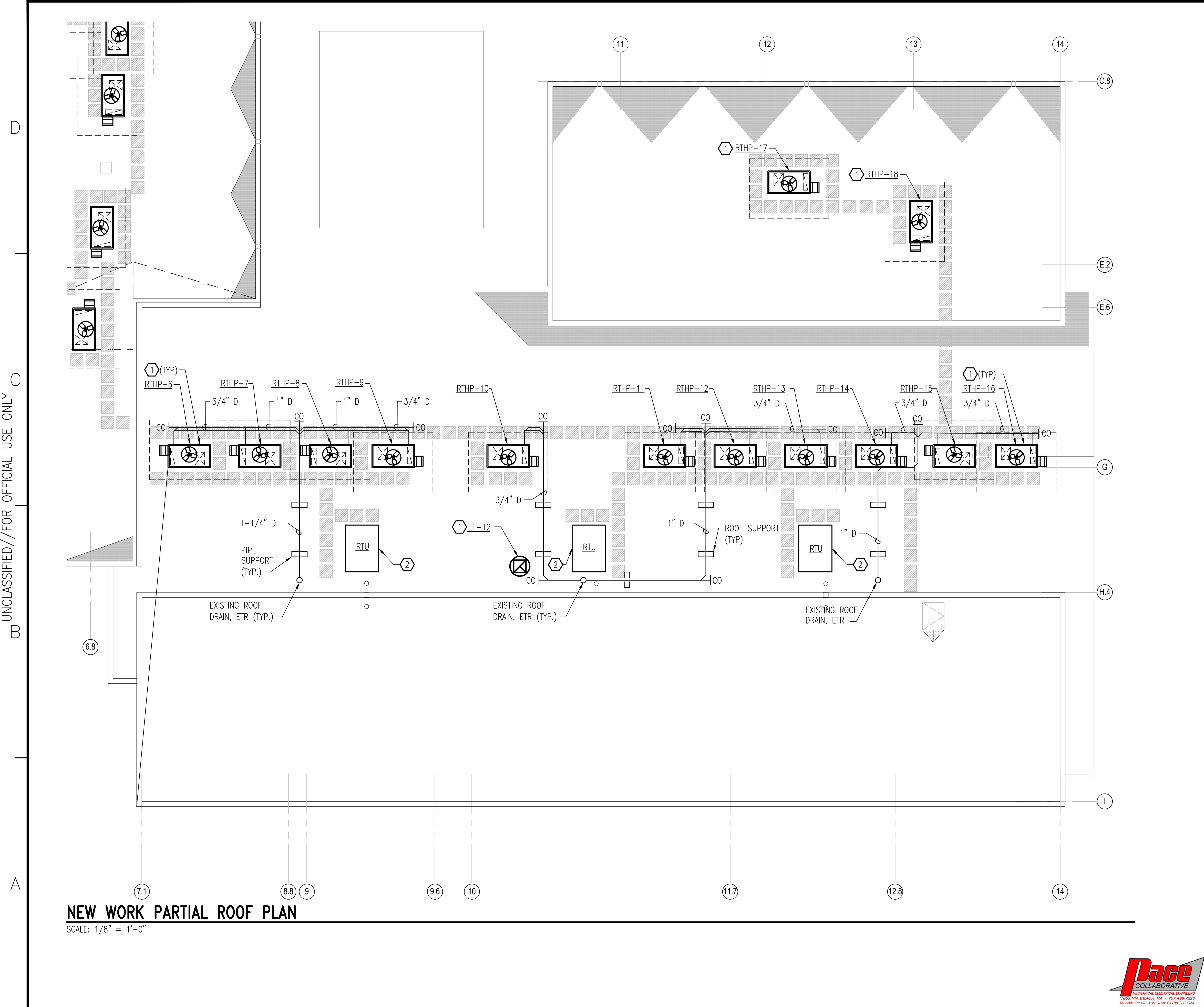
NRW ENGINEERING
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Virginia Beach, VA 23464
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Fax 757-474-0919

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO
DES: GG DRW: MAT CHK: JAK

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
**REPAIR AND UPGRADE
BUILDING 4034, FRC-E**
MECHANICAL NEW WORK PARTIAL ROOF PLAN AND EXTERIOR

SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO.: 7375939
NAVFAC DRAWING NO.: 12816288
SHEET 77 OF 113
M-104
DRAWING REVISION: 10 MAY 2014

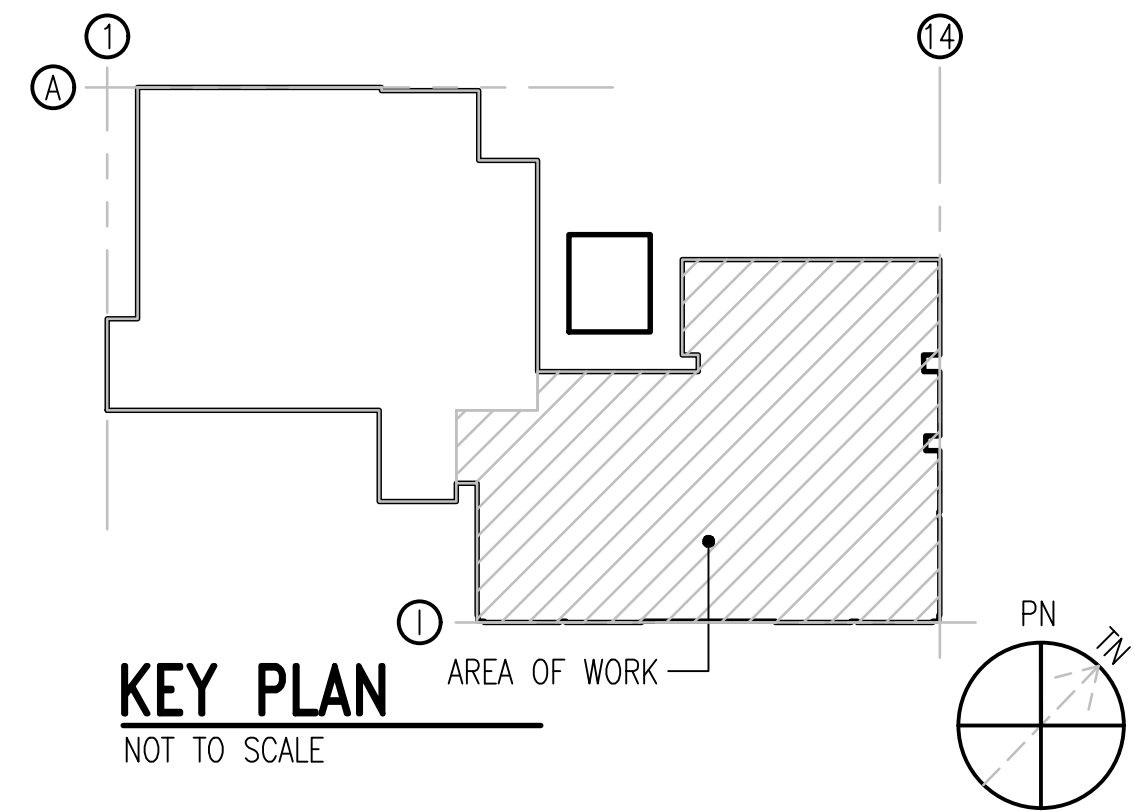




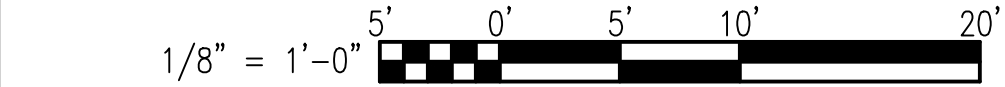
NEW WORK PARTIAL ROOF PLAN
SCALE: 1/8" = 1'-0"

SHEET KEYNOTES

- 1 PROVIDE WITH FACTORY CURBS AND ISOLATOR RAILS, SEE SCHEDULES FOR MORE INFORMATION. ROUTE CONDENSATE PIPING TO NEAREST ROOF DRAIN OR SCUPPER.
- 2 INSTALL RTU SALVAGED FROM DEMOLITION PHASE. CONNECT SUPPLY AND RETURN DUCTWORK TO RTU. BALANCE RTU TO PERFORMANCE VALUES OBTAINED DURING PRETAB.



KEY PLAN
NOT TO SCALE

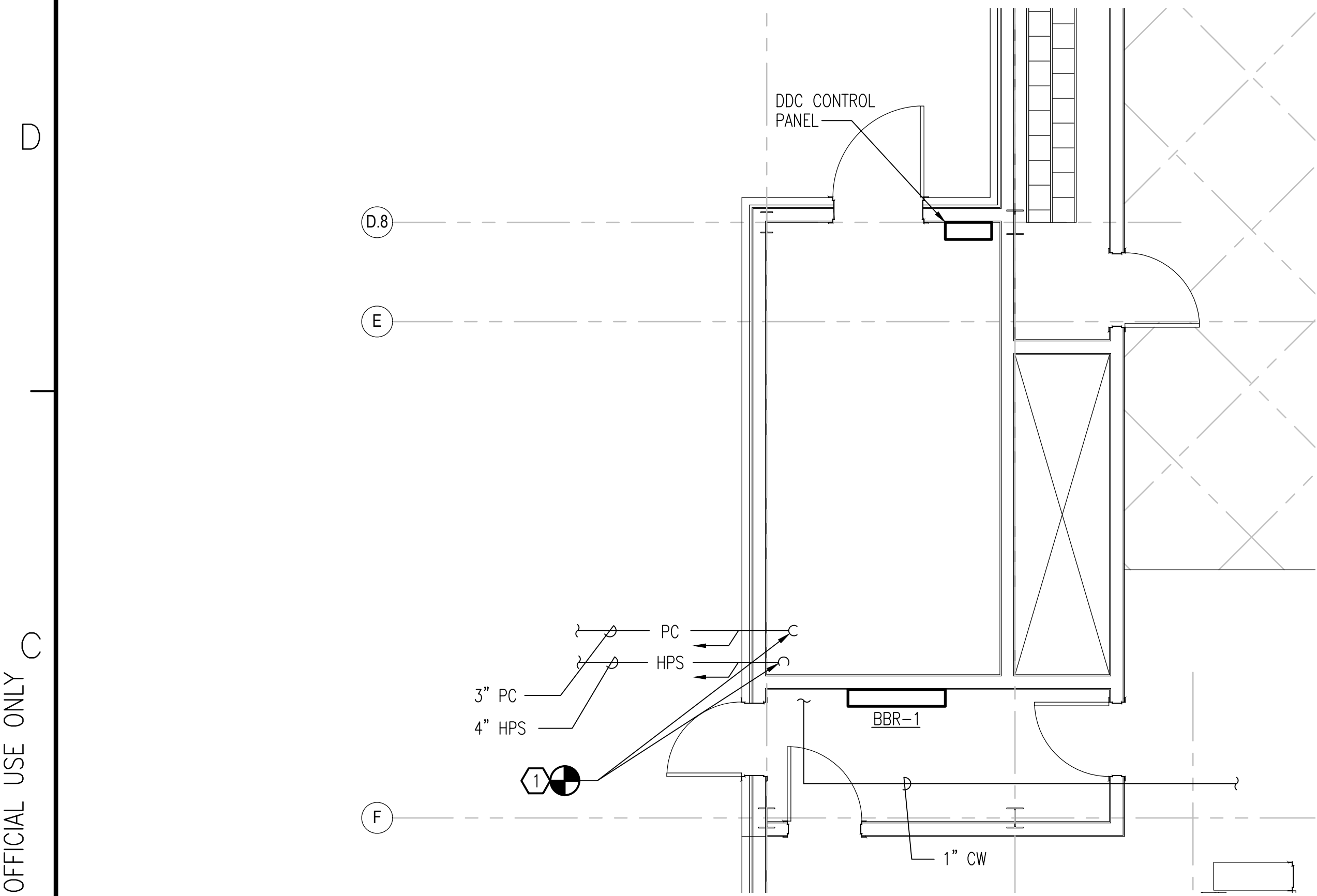


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NRW ENGINEERING Structural Consultants 748 Lord Dunmore Drive, Suite 101 Virginia Beach, VA 23464 Phone 757-474-0812 Fax 757-474-0919		
APPROVED FOR COMMANDER NAVFAC ACTIVITY SATISFACTORY TO DES: GG DRW: MAT CHK: JAK		
U.S. MARINE CORPS AIR STATION CHERRY POINT, NORTH CAROLINA REPAIR AND UPGRADE BUILDING 4034, FRC-E MECHANICAL NEW WORK PARTIAL ROOF PLAN		
SCALE: AS NOTED PROJECT NO.: XK11237 MAXIMO WORK ORDER NO.: 7375939 NAVFAC DRAWING NO.: 12816289 SHEET 78 OF 113 M-105 DRAWING REVISION: 10 MAY 2014		

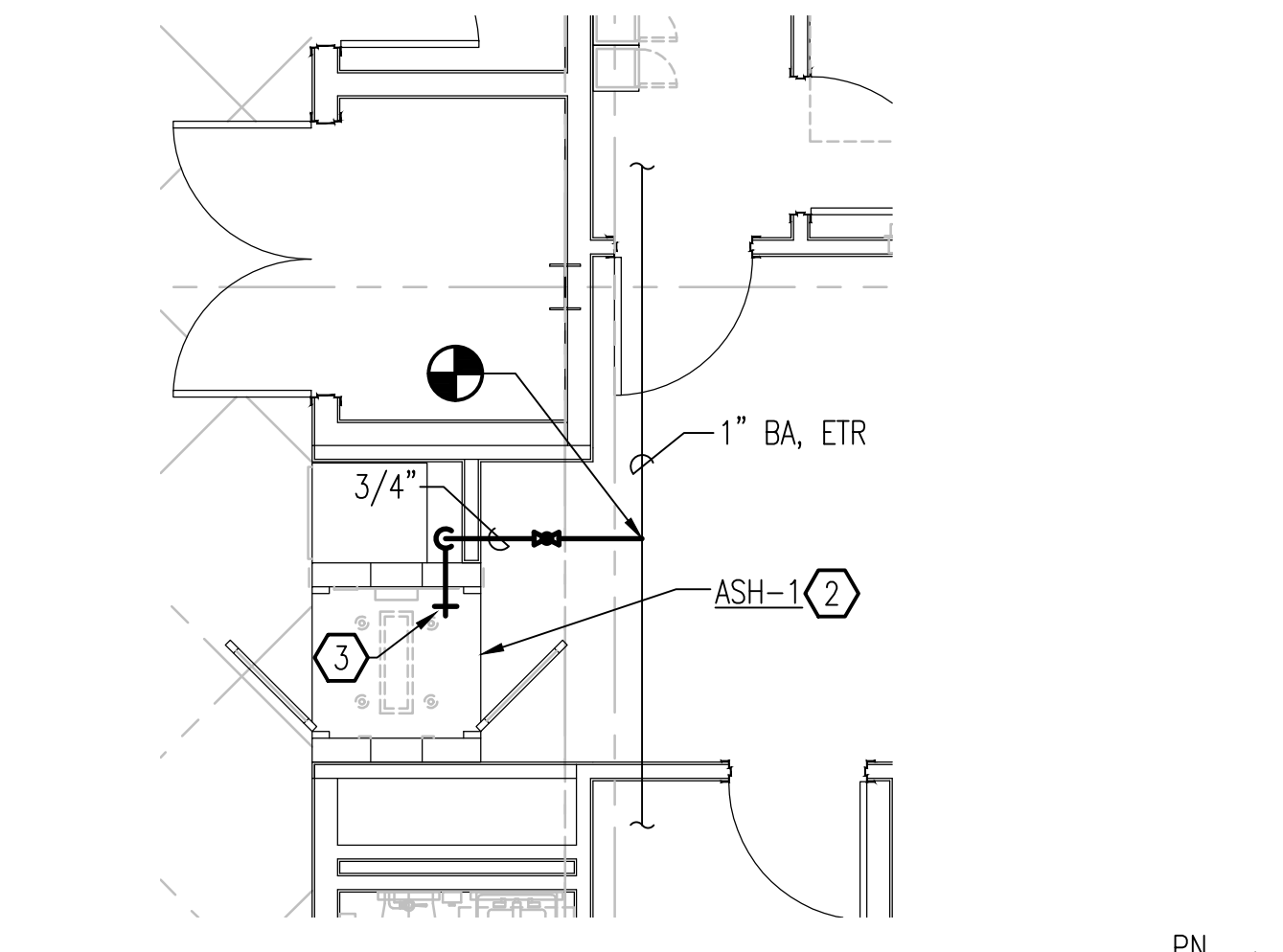
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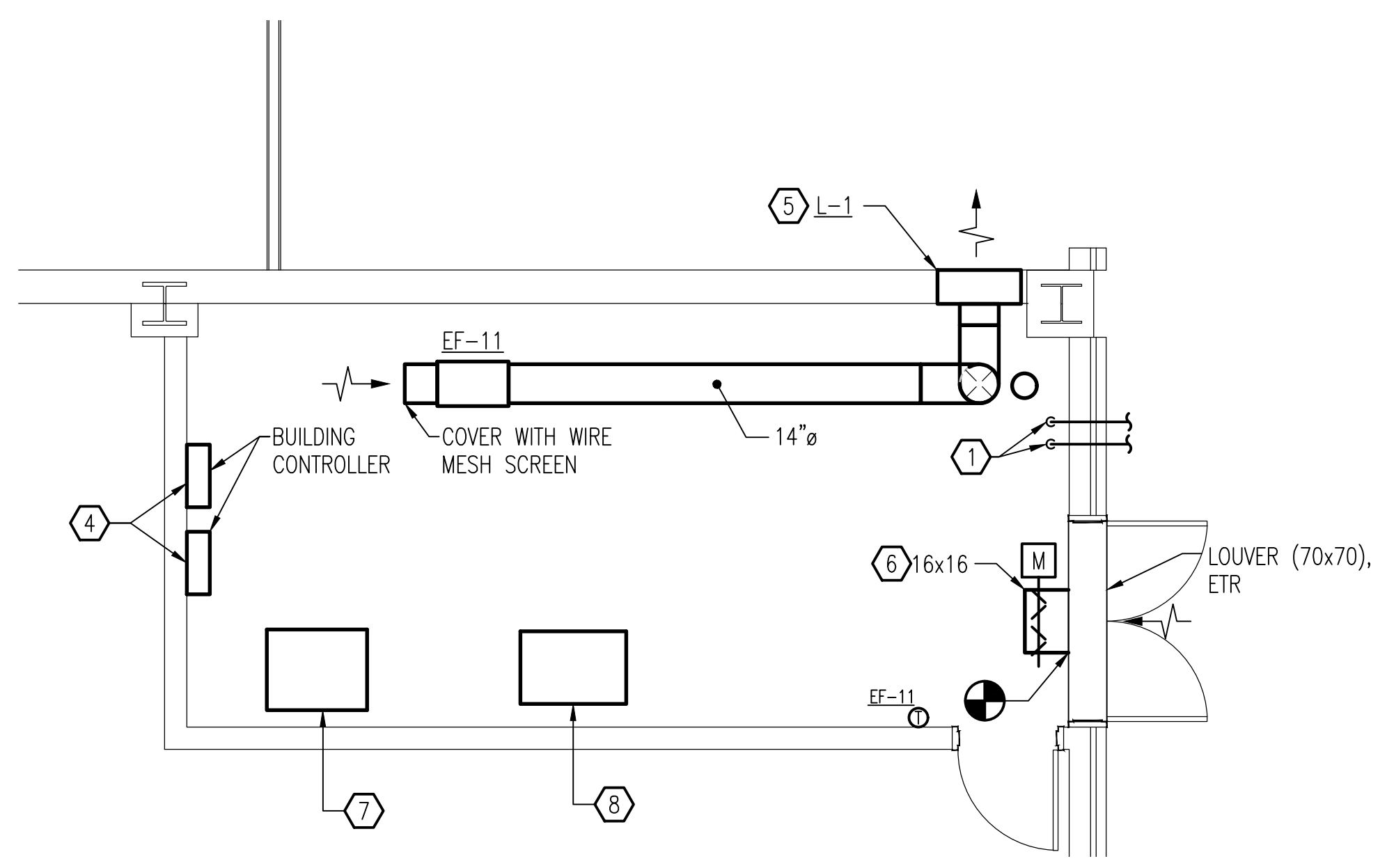
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1
M-101
ENLARGED MECHANICAL ROOM PLAN
SCALE: 1/4" = 1'-0"



2
M-102
ENLARGED VESTIBULE ROOM PLAN
SCALE: 1/4" = 1'-0"

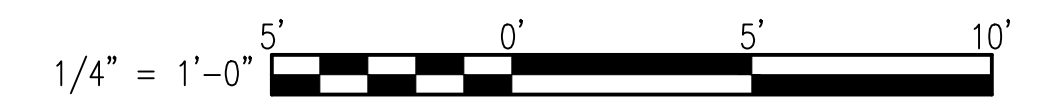


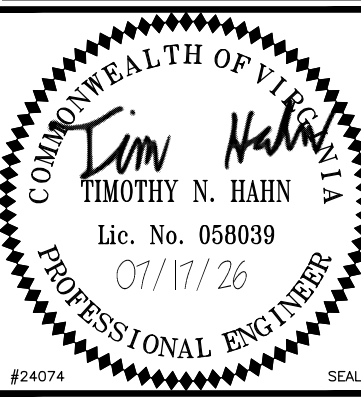
3
M-103
ENLARGED MECHANICAL ROOM PLAN
SCALE: 1/4" = 1'-0"

SHEET KEYNOTES

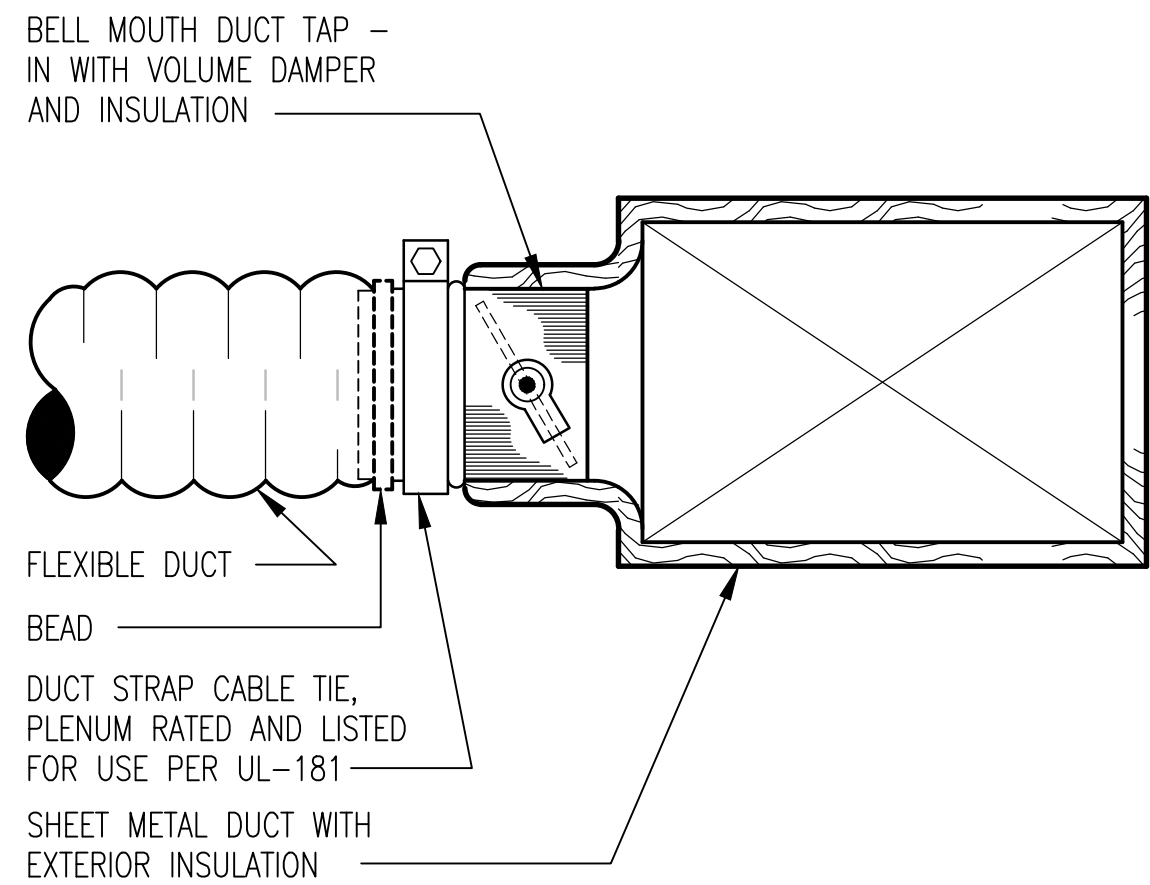
- 1 CAP STEAM AND CONDENSATE LINES WITHIN 12" OF THE FLOOR.
- 2 PRE-MANUFACTURED AIR SHOWER ASSEMBLY. REFER TO EQUIPMENT SCHEDULE FOR REQUIREMENTS. COORDINATE INSTALLATION WITH UNIT BEING PROVIDED.
- 3 PROVIDE BREATHING AIR CONNECTION INSIDE OF THE AIR SHOWER. PROVIDE 3/8" HANSEN SERIES 4000 QUICK CONNECT COUPLING WITH DUST CAP.
- 4 PROVIDE NEW DDC PANELS. COORDINATE QUANTITY AND POWER REQUIREMENTS WITH CONTROLS CONTRACTOR.
- 5 EXTEND EXHAUST UP AND DISCHARGE ABOVE LOWER ROOF, APPROXIMATELY 24" ABOVE ROOF.
- 6 PROVIDE 16x16 MOTORIZED DAMPER, BLANK OFF THE REST OF THE LOUVER. INTERLOCK OPERATION WITH EF-11.
- 7 PROVIDE NEW REFRIGERATED AIR DRYER AND ASSOCIATED ACCESSORIES. PROVIDE PIONEER MODEL R-100, 115/1/60, RATED FOR 51 CFM, R-134 REFRIGERANT. PROVIDE WITH FLOAT DRAIN AND MR. GOODAIRE FILTRATION OPTION. PROVIDE AS SPECIFIED OR EQUIVALENT.
- 8 PROVIDE NEW AFTER COOLER, MATCHING AIRFLOW RATINGS OF COMPRESSOR. AFTER COOLER SHALL BE FAN COOLED WITH SEPARATOR AND AUTOMATIC DRAIN.

GRAPHIC SCALE:

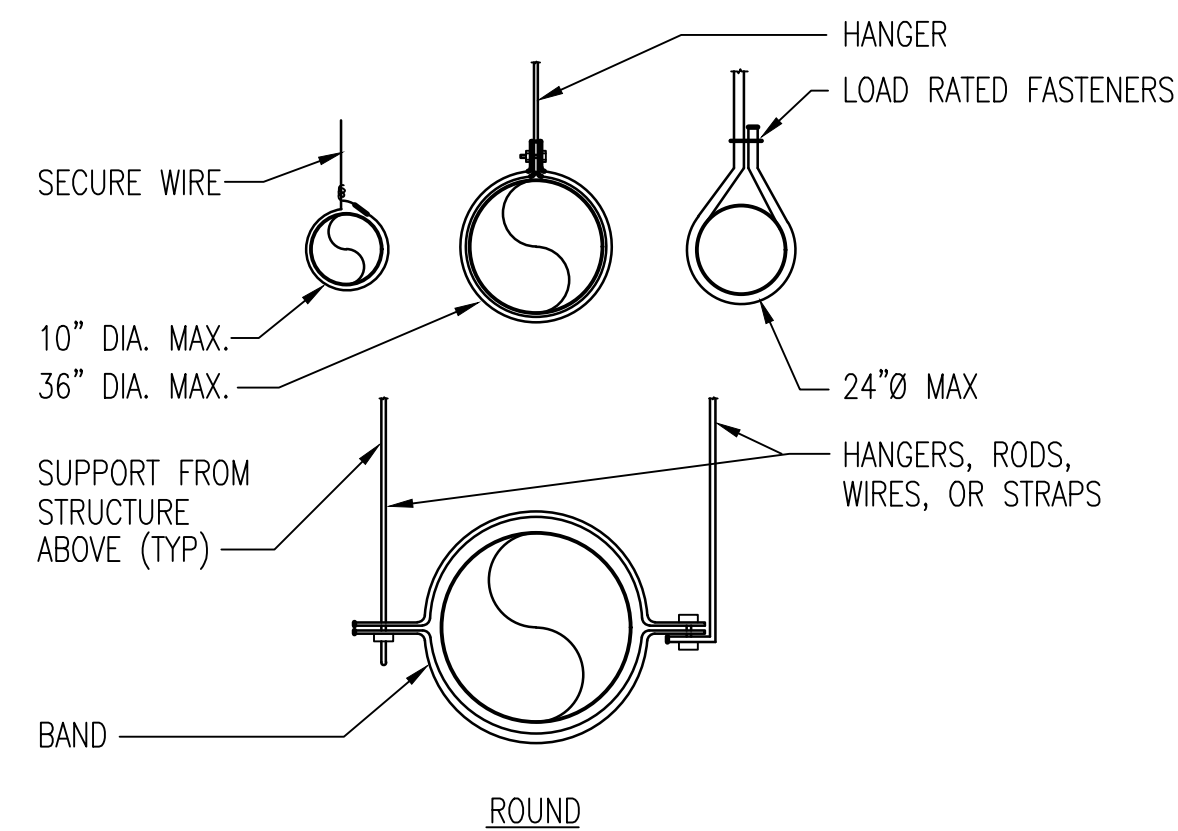


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ACTIVITY		
SATISFACTORY TO		
DES	GG	DRW MAT
CHK	JAK	
U.S. MARINE CORPS AIR STATION		
CHERRY POINT, NORTH CAROLINA		
REPAIR AND UPGRADE		
BUILDING 4034, FRC-E		
MECHANICAL NEW WORK ENLARGED PLANS		
SCALE: AS NOTED		
PROJECT NO.: XK11237		
MAXIMO WORK ORDER NO. 7375939		
NAVFAC DRAWING NO. 12816291		
SHEET 80 OF 113		
M-401		
DRAWING REVISION: 10 MAY 2014		

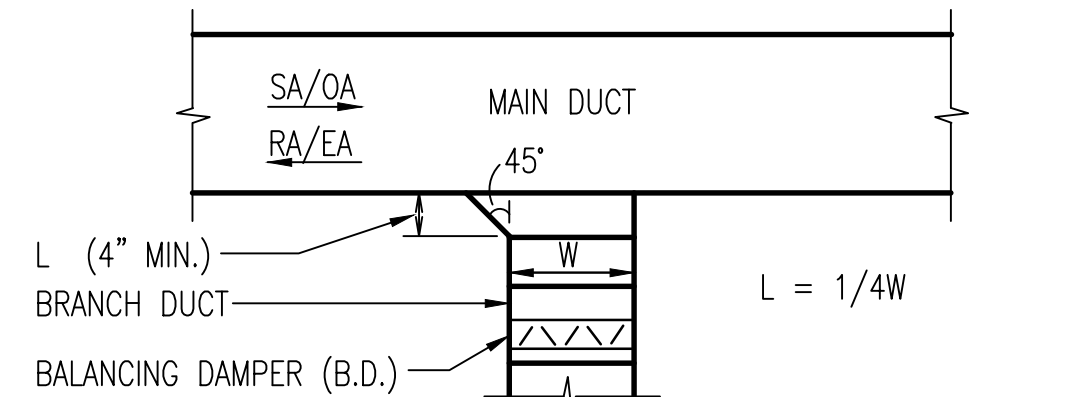
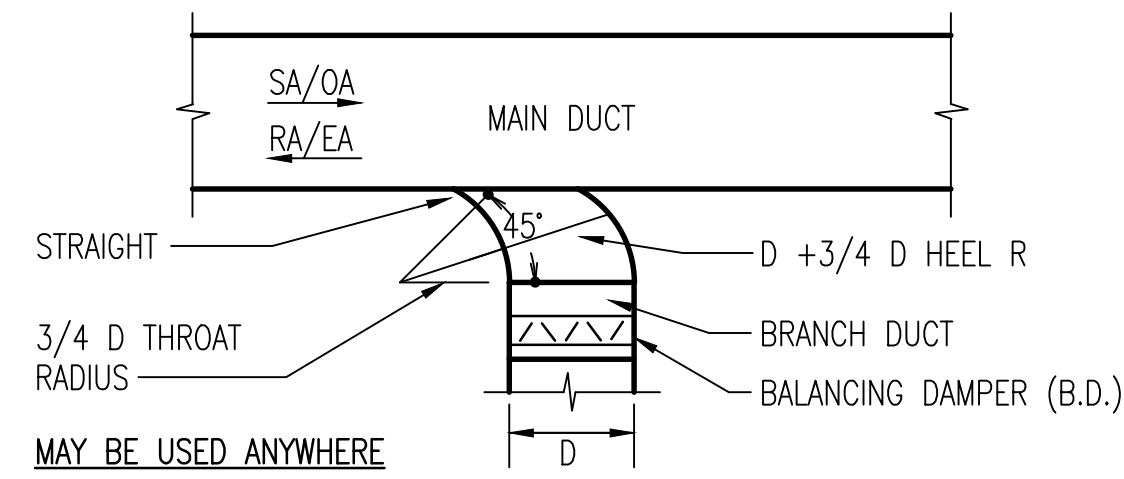
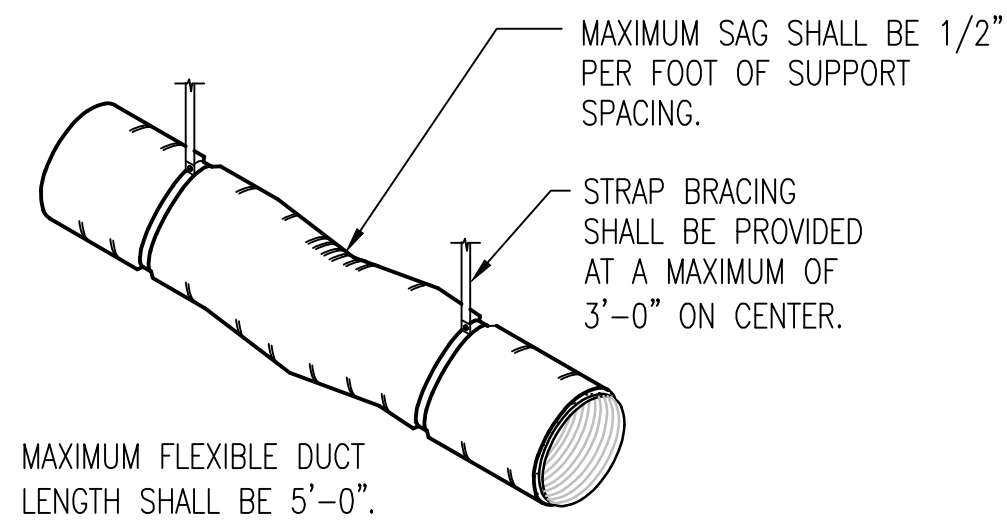
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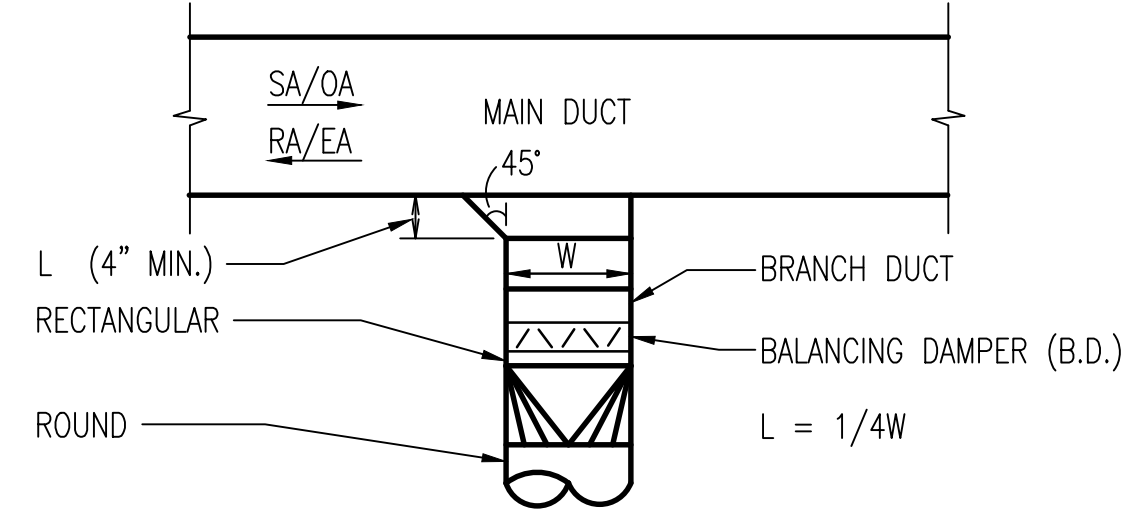
D1 FLEXIBLE DUCT INSTALLATION DETAIL
NO SCALE



D2 INSULATED FLEXIBLE DUCTWORK DETAIL
NO SCALE

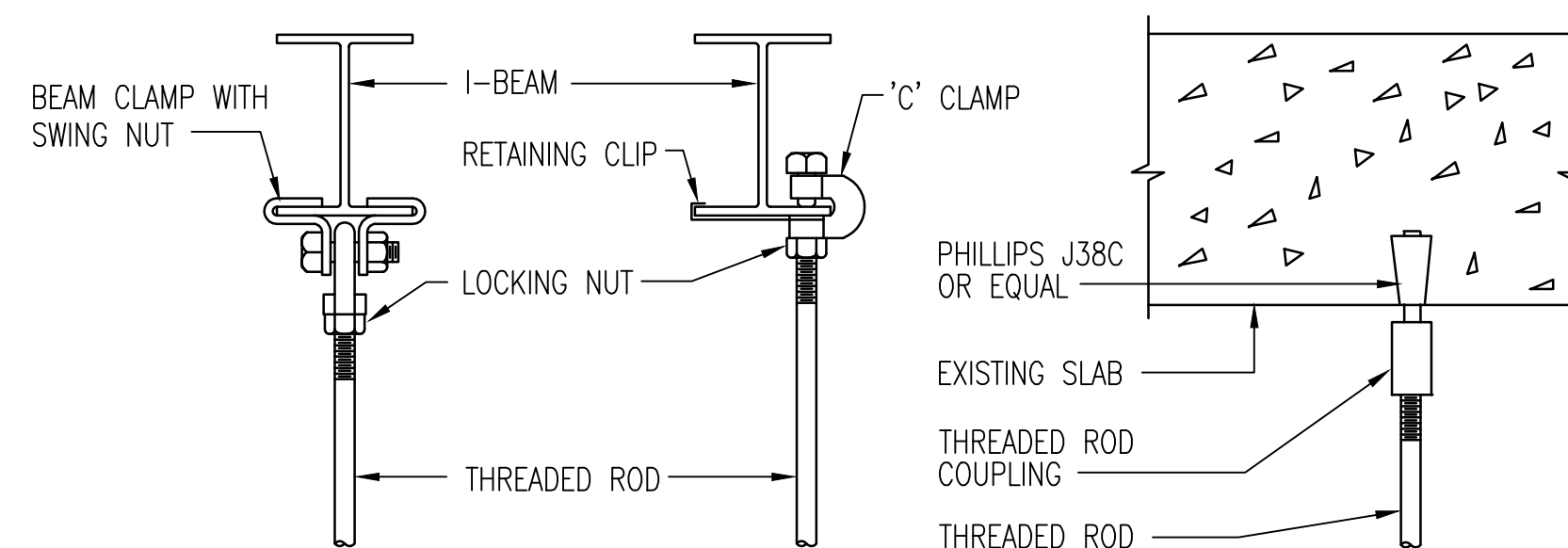


USE ONLY WHERE RECTANGULAR RUN-OUTS ARE INDICATED ON DRAWINGS

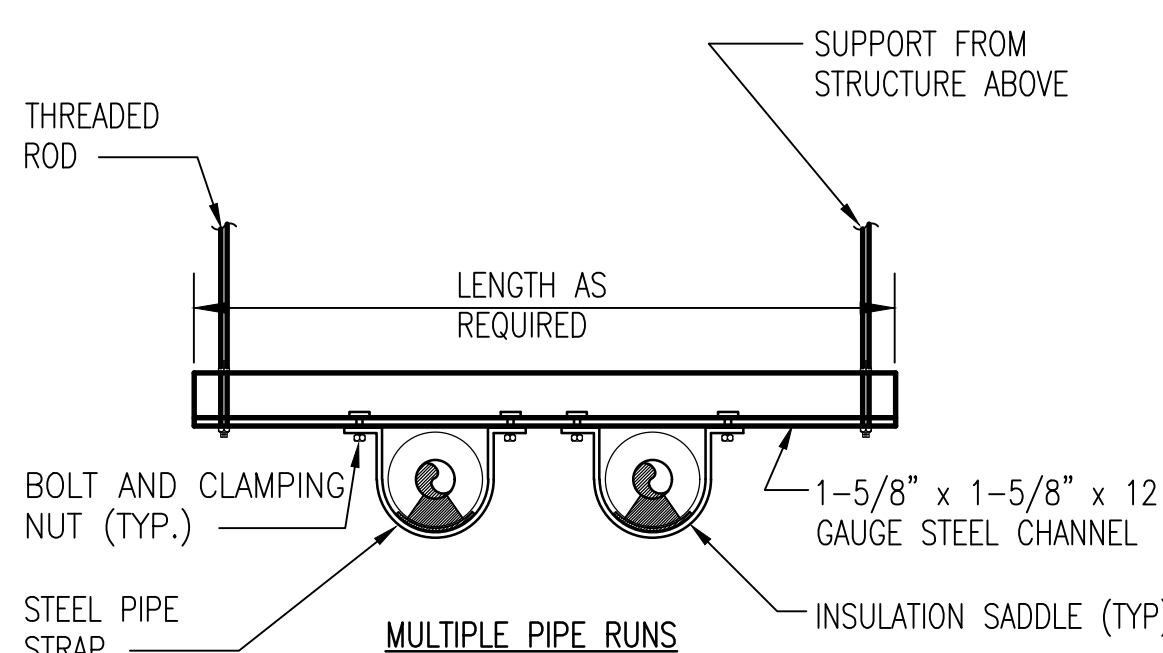


USE ONLY WHERE ROUND RUN-OUTS ARE INDICATED ON DRAWINGS

B3 TYPICAL BRANCH CONNECTION
NO SCALE

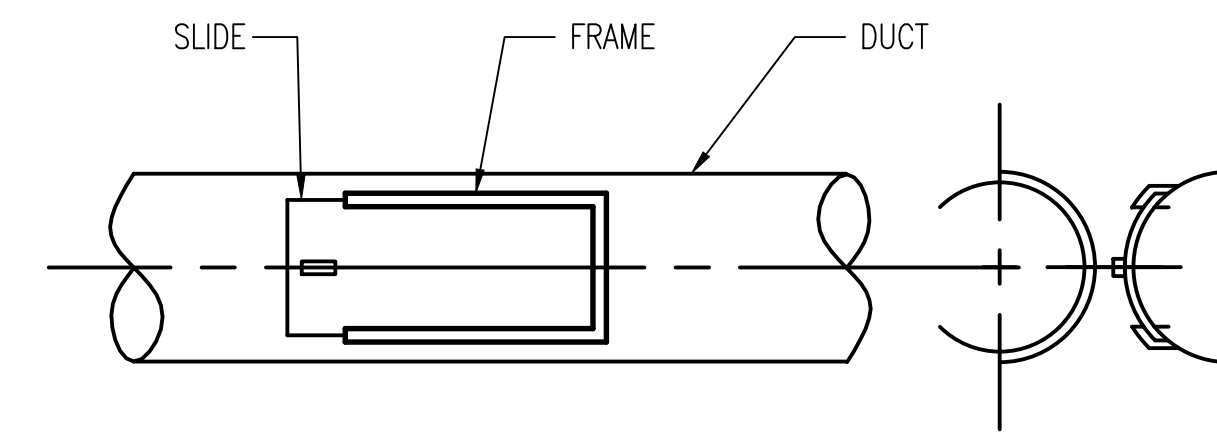


PIPE HANGING METHODS



NOTE: ROD SIZE PER MANUFACTURER'S RECOMMENDATIONS.

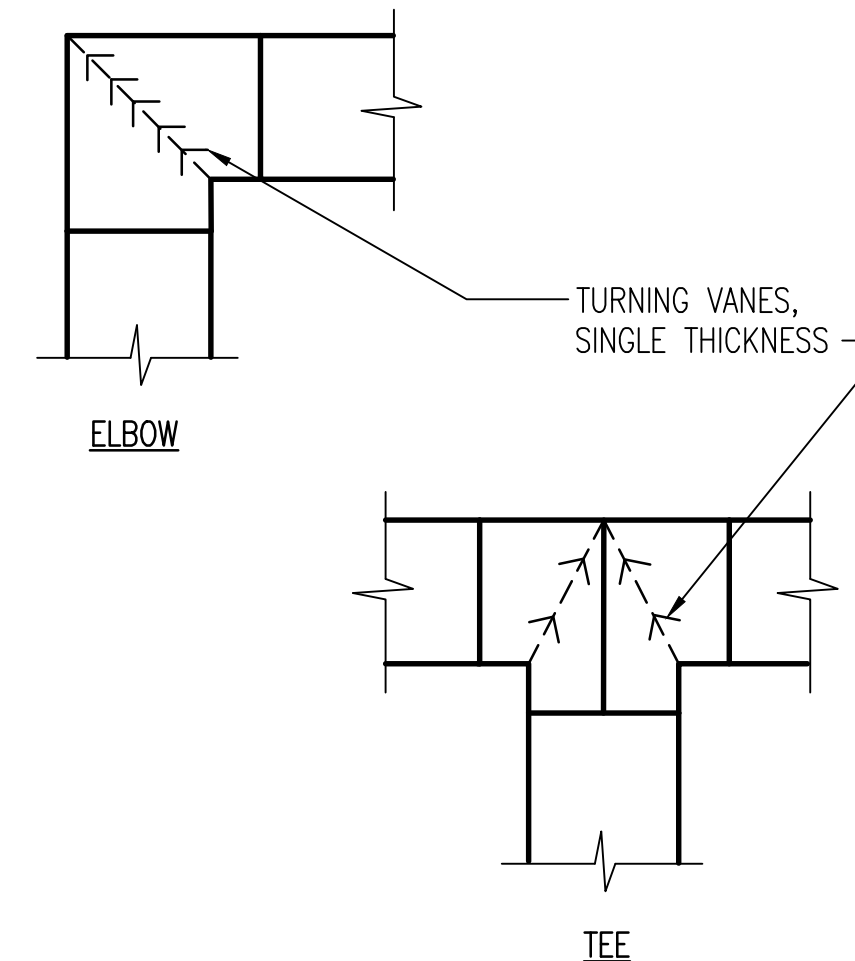
A3 PIPE SUPPORT METHODS DETAILS
NO SCALE



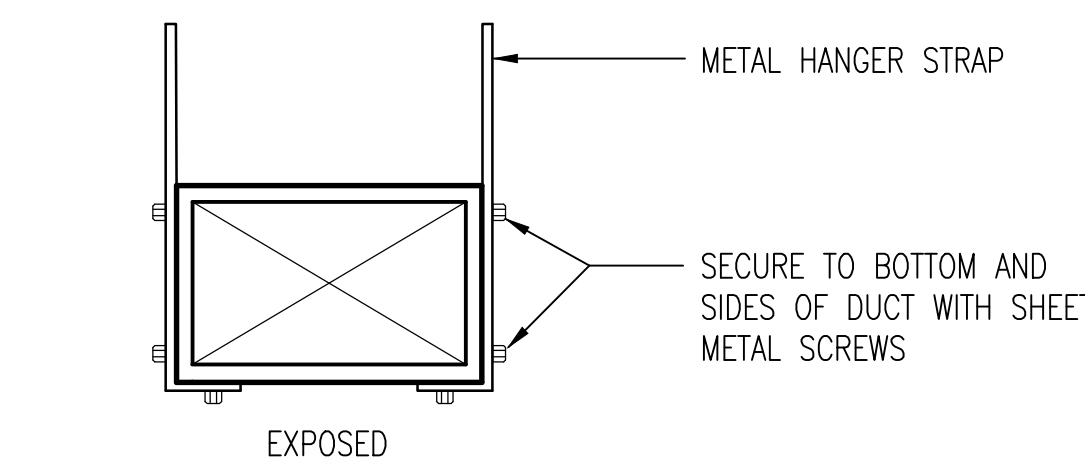
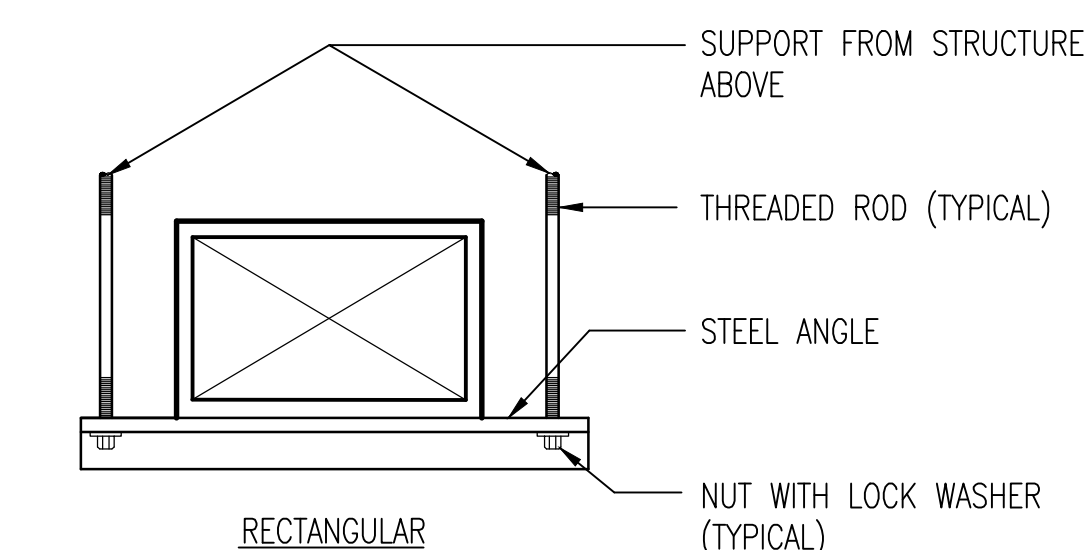
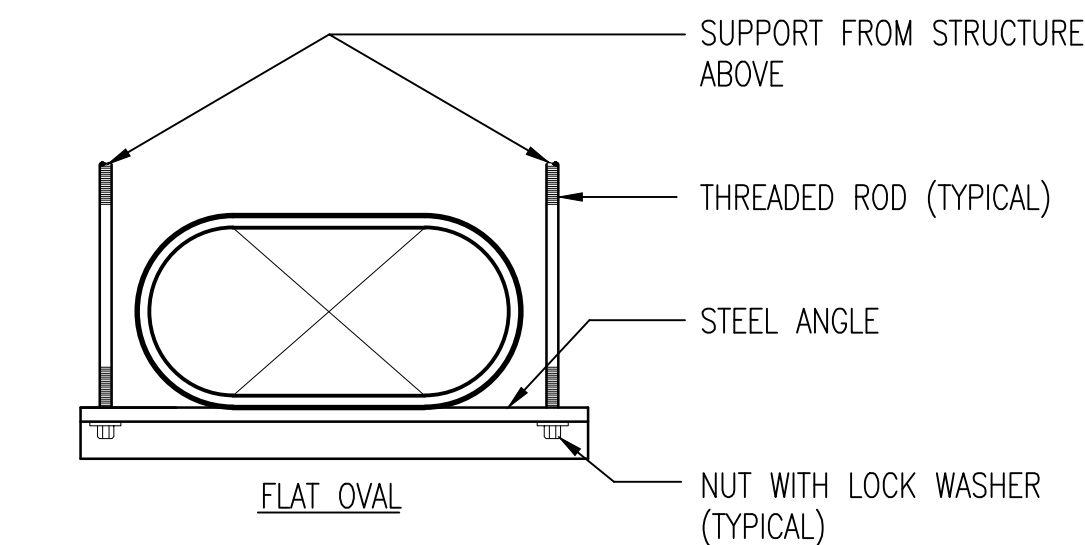
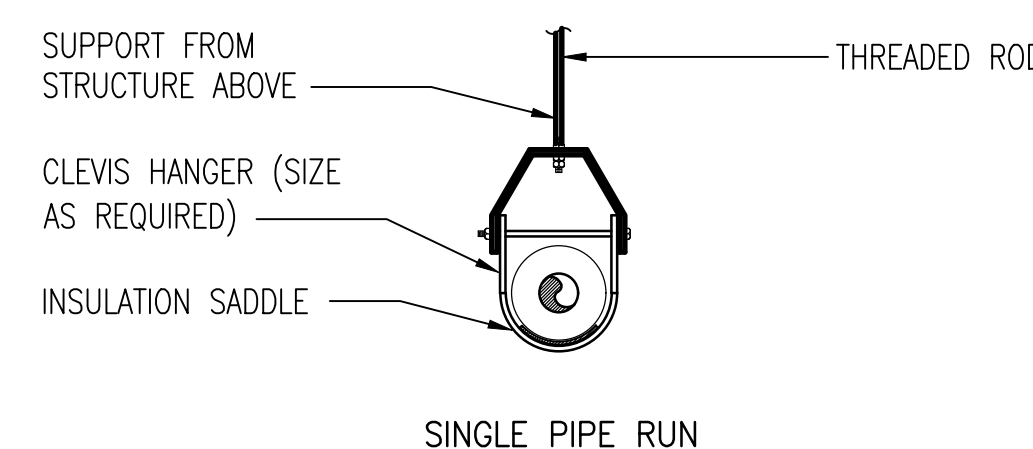
ALL CLEANOUTS SHALL BE INSTALLED ON THE SIDES OF DUCTWORK, EXCEPT CLEANOUTS IN DUCTWORK ALONG FLOOR SHALL BE INSTALLED ON TOP OF DUCTWORK.

DUCT Ø	HOLE SIZE	SLIDE SIZE
11" - 18"	8" X 10"	10" X 12"
19" - 25"	10" X 12"	12" X 14"
26" - 36"	12" X 14"	14" X 16"

C5 EXHAUST DUCT CLEANOUT DETAIL
NO SCALE



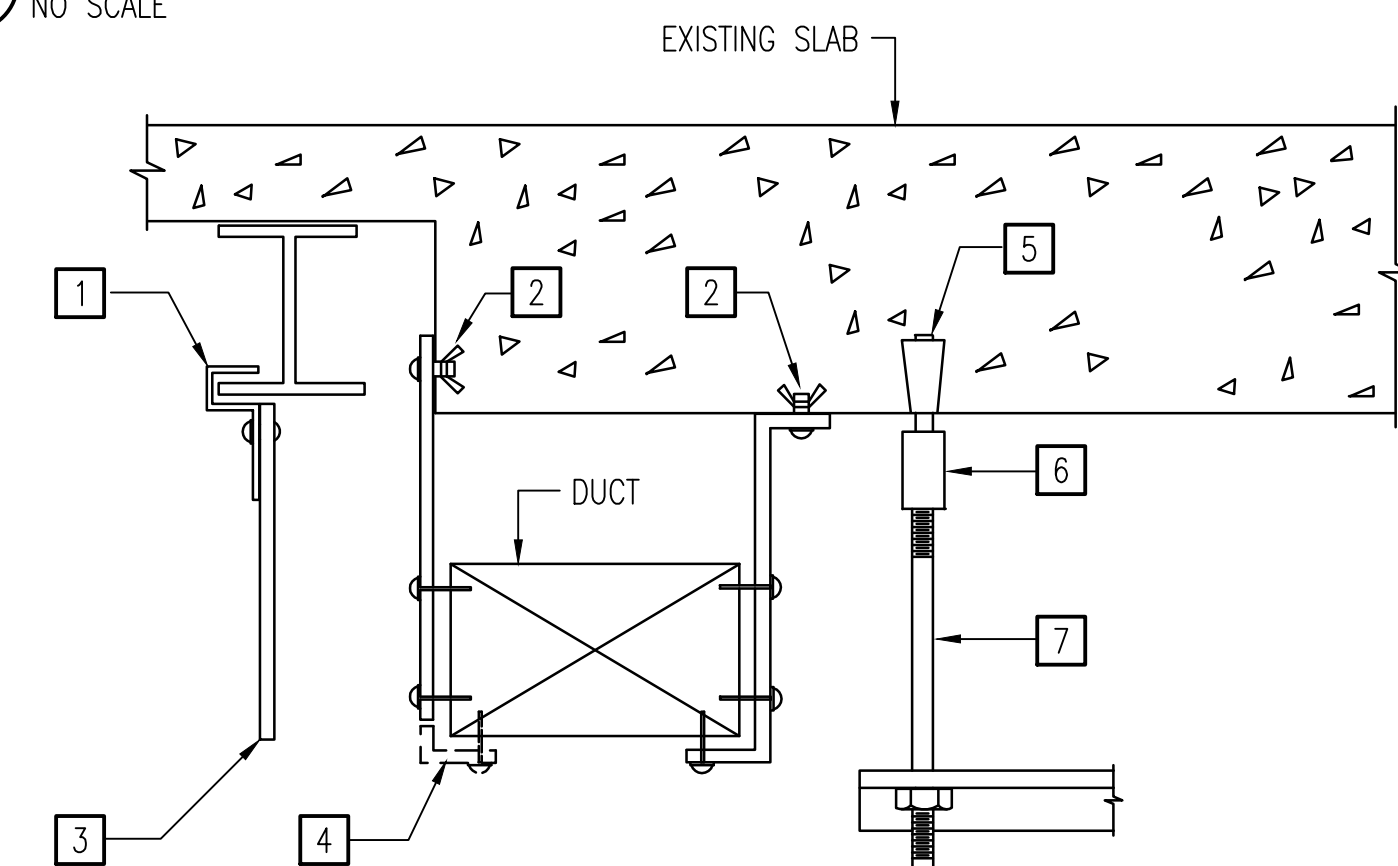
B5 DUCTWORK FITTING DETAILS
NO SCALE



NOTE: FOR ANGLE SIZE AND HANGER STRAP GAUGE, SEE SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS.

A1 DUCT SUPPORT METHODS DETAIL
NO SCALE

B2 SWITCH/THERMOSTAT MOUNTING HEIGHT DETAIL
NO SCALE



NOTES:

- 1 BEAM CLIP FOR APPROPRIATE BEAM THICKNESS
- 2 PHILLIPS JS14C EXPANSION ANCHOR OR EQUAL. OR FORCED ENTRY FASTENERS.
- 3 BAND IRON HANGER STRAP PER CODE OR SMACNA.
- 4 TURN UNDER WHEN DUCT IS OVER 47" WIDE.
- 5 PHILLIPS J38C OR EQUAL.
- 6 THREADED ROD COUPLING
- 7 THREADED ROD (SIZE PER SPECIFICATION, 3/8" MIN.).

APPROVED
DATE
DESCRIPTION

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE
BUILDING 4034, FRC-E
MECHANICAL DETAILS

SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO. 7375939
NAVAC DRAWING NO. 12816292
SHEET 81 OF 113
M-501
DRAWING REVISION: 10 MAY 2014



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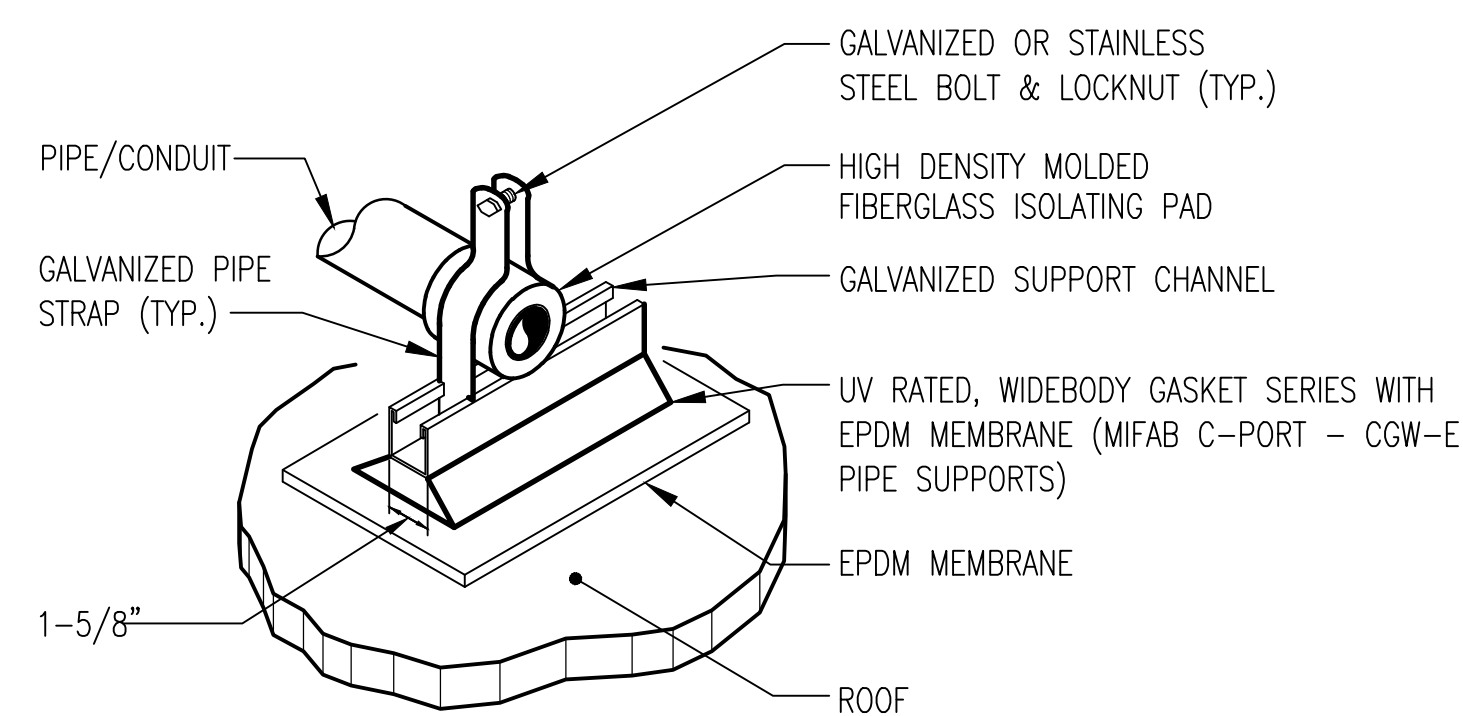
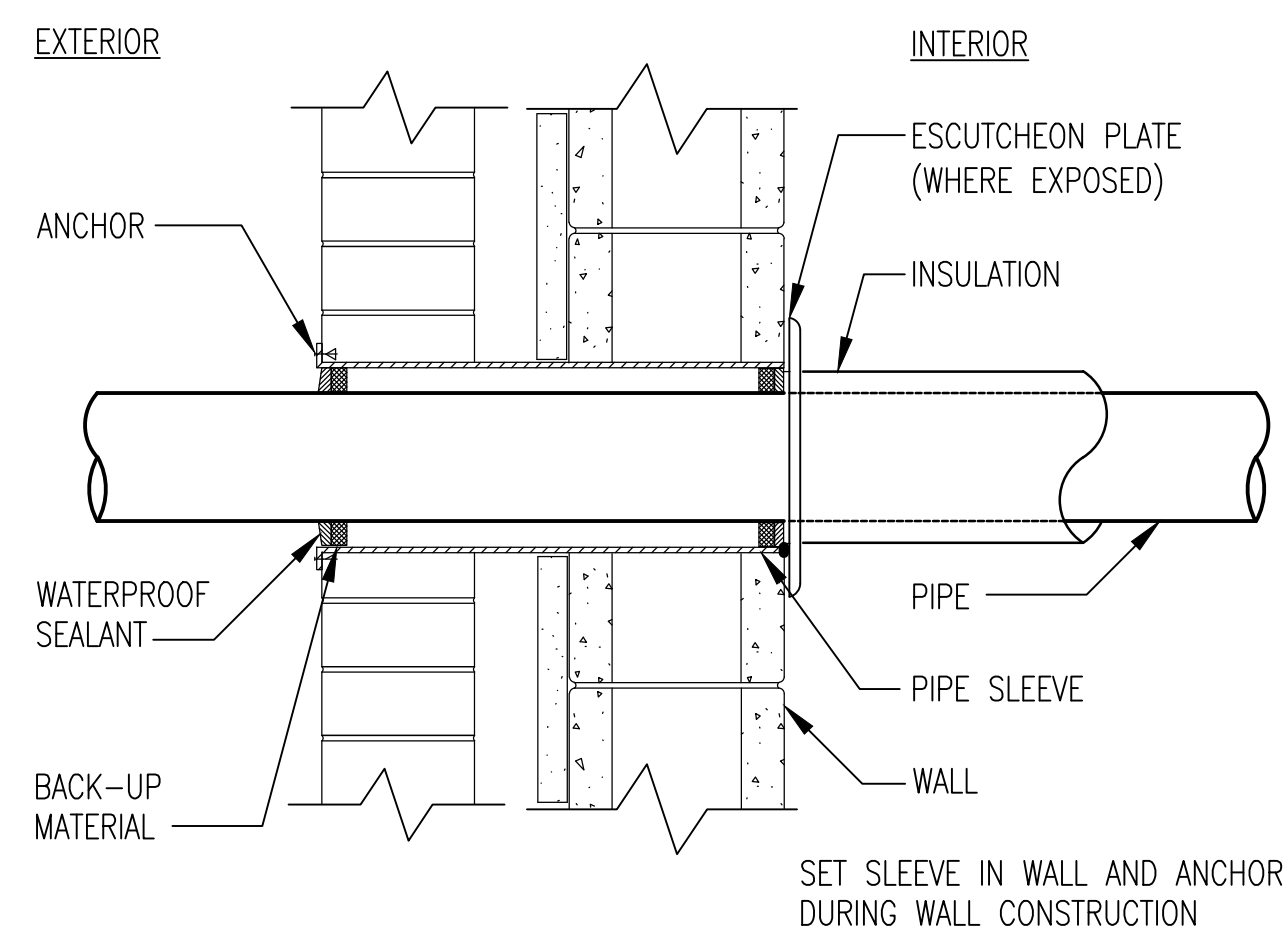
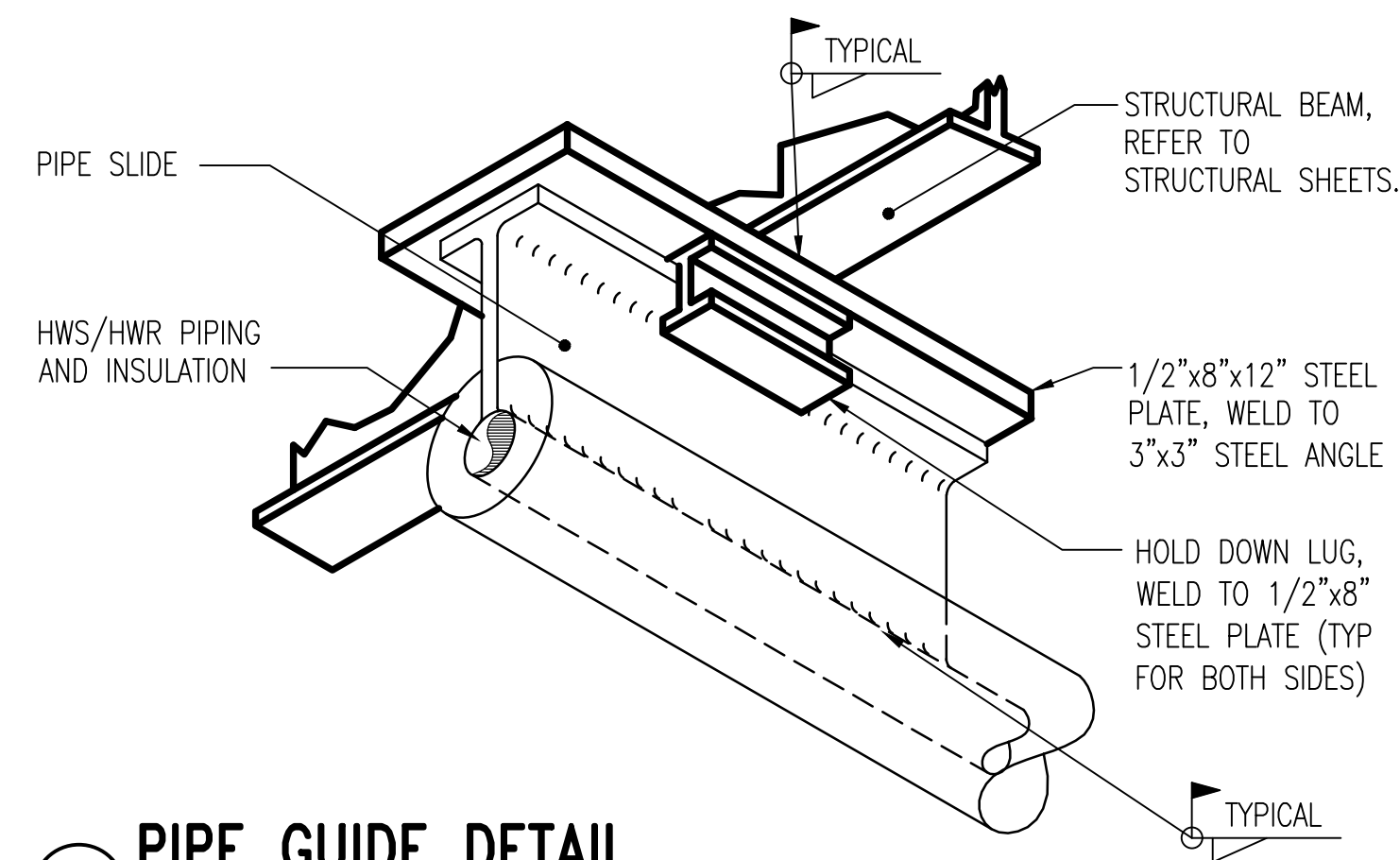
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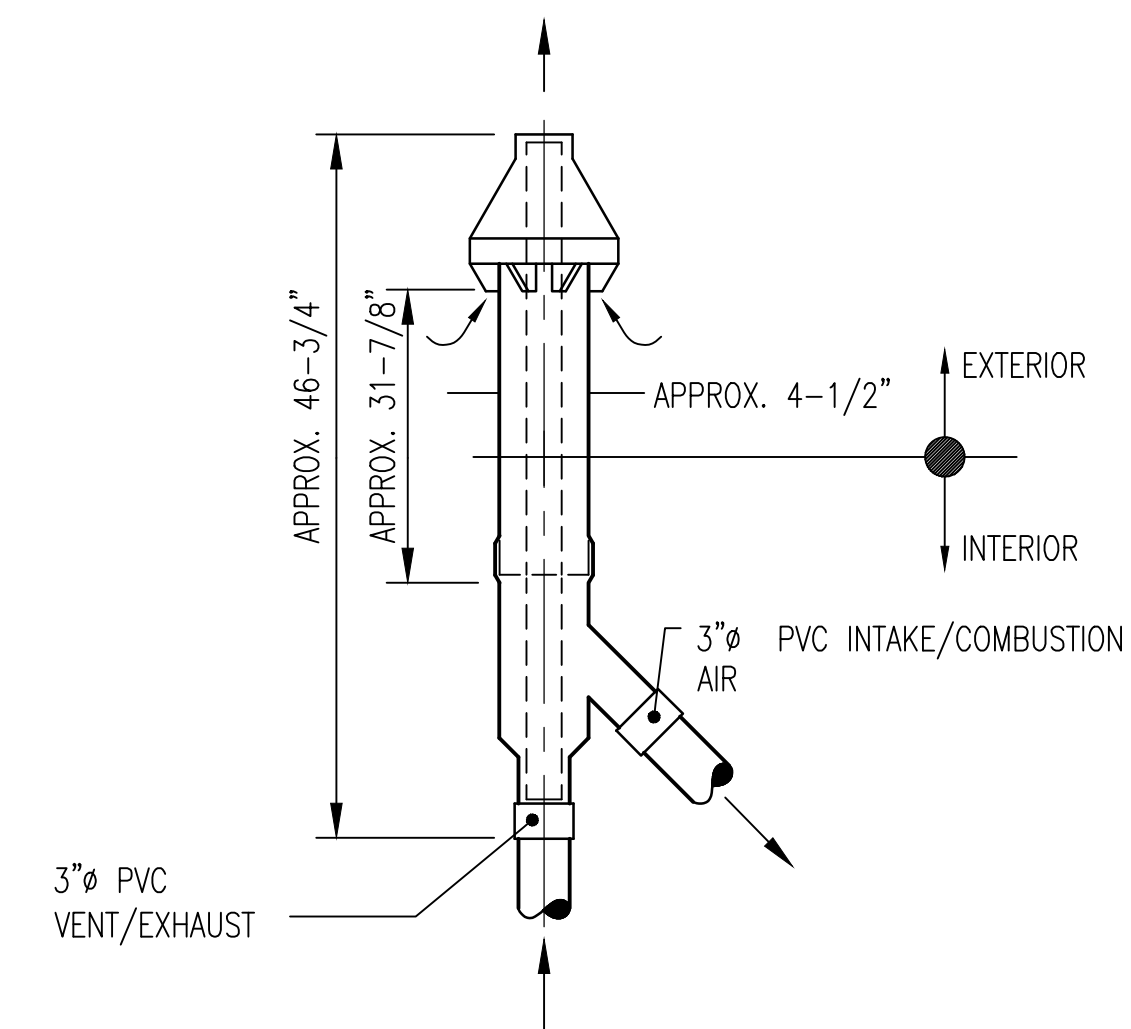
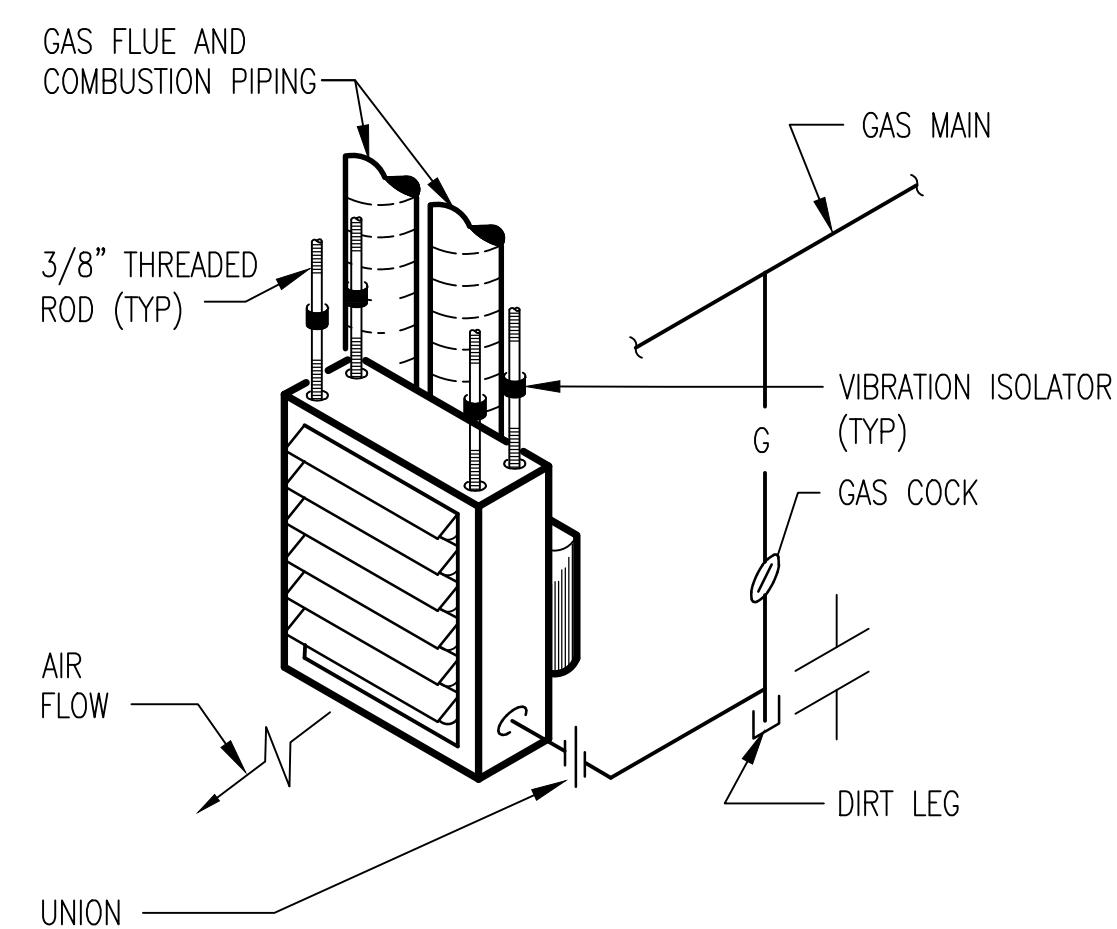
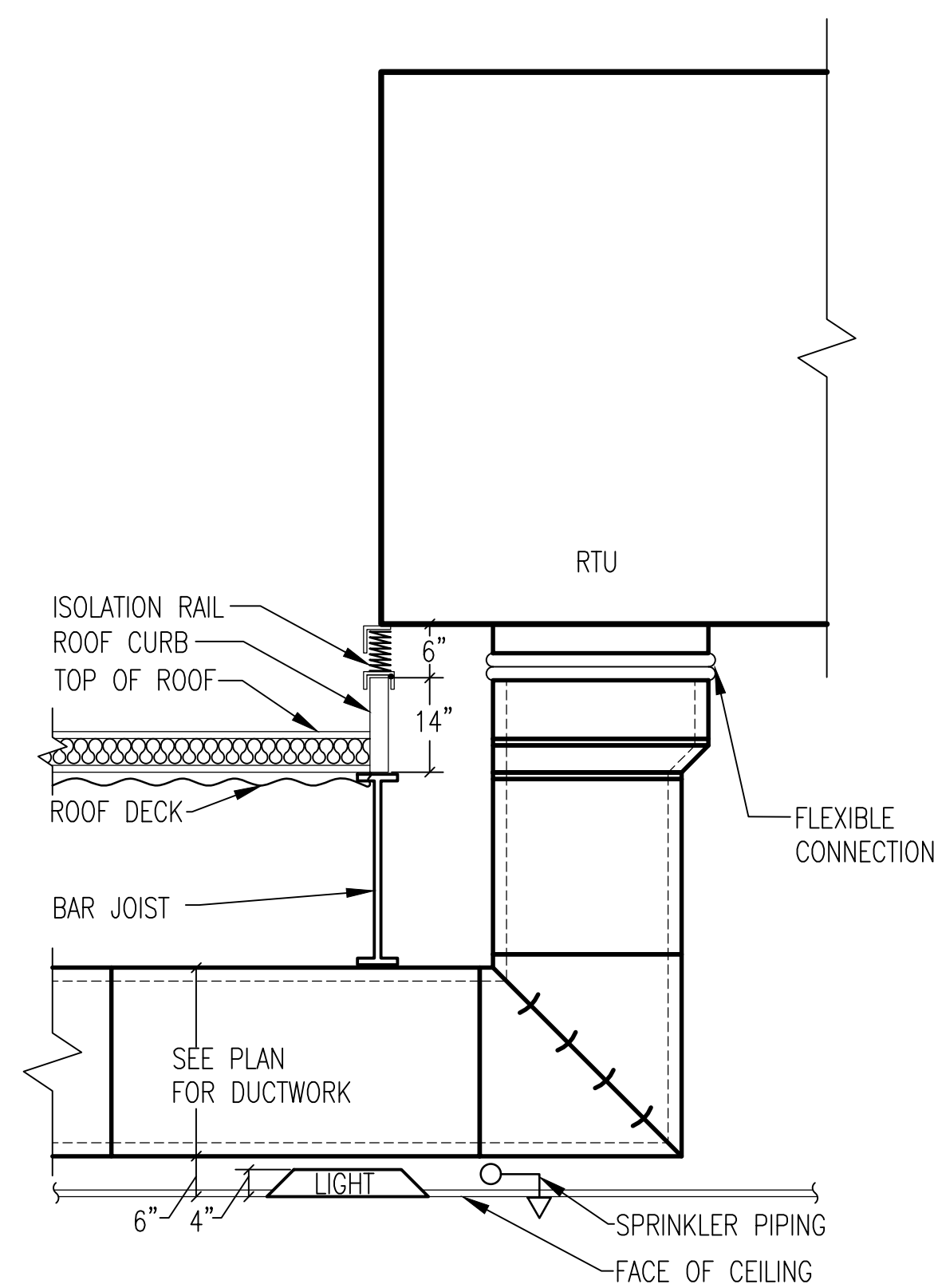
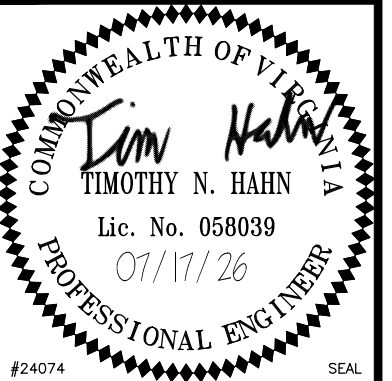
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NOTE: COORDINATE PIPE ROOF SUPPORT SPACING REQUIREMENTS WITH MANUFACTURER.

[illegible]

NRW ENGINEERING
Structural Consultants
748 Lord Dunmore Drive, Suite 101
Virginia Beach, VA 23464
Phone 757-474-0612
Fax 757-474-0919

A/E INFO

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO _____

DES	GG	DRW	MAT	CHK	JAK
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U.S. MARINE CORPS AIR STATION	CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE BUILDING 4034, FRC-E	
MECHANICAL DETAILS	

SCALE: AS NOTED

PROJECT NO.:		XK11237
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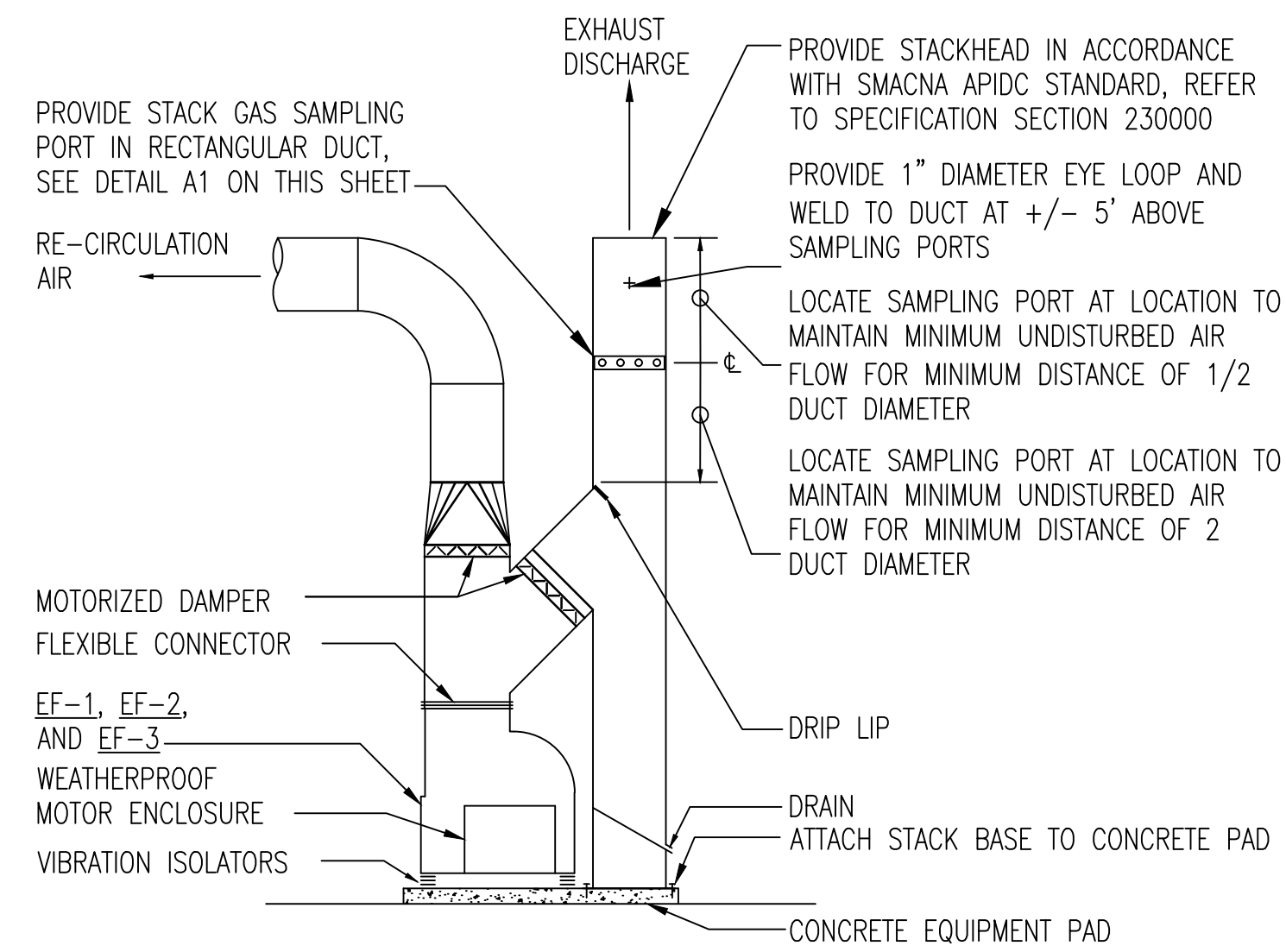
MAXIMO WORK ORDER NO.

7375939

NAVJAG DRAWING NO.

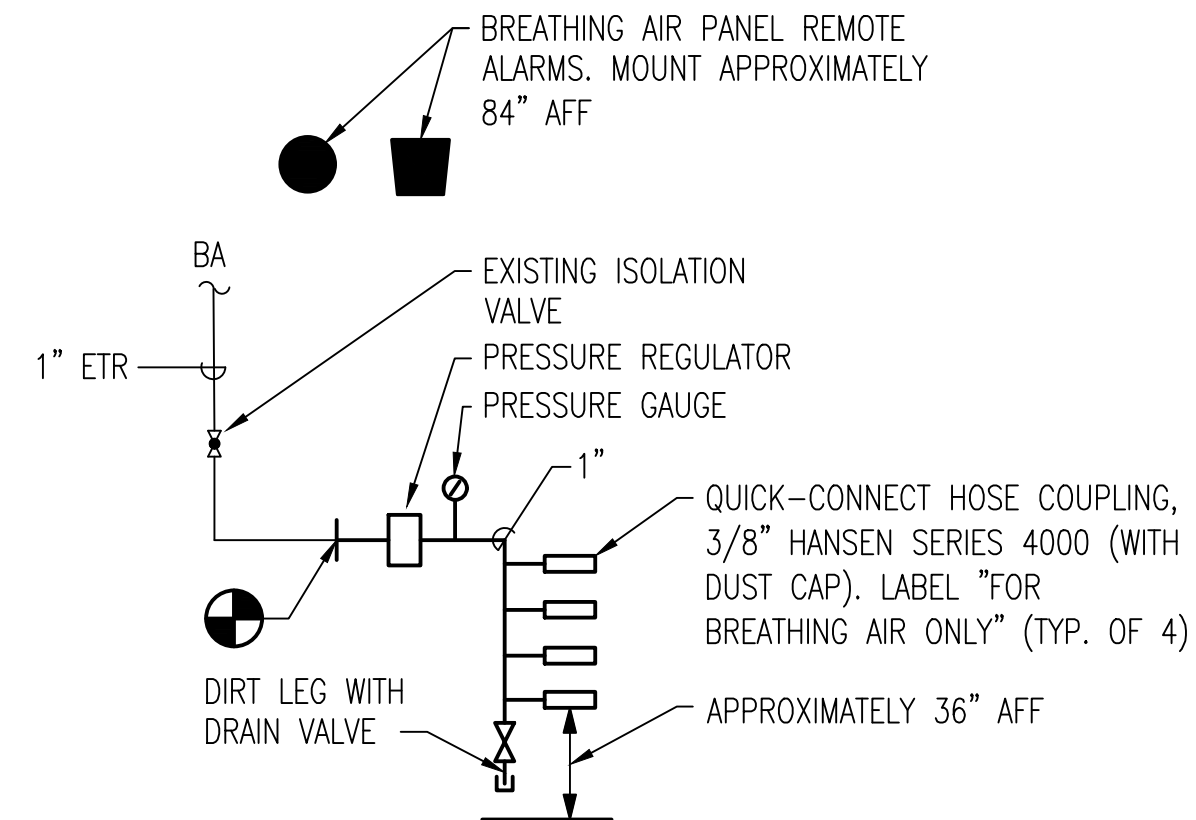
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SHEET 83 OF 113

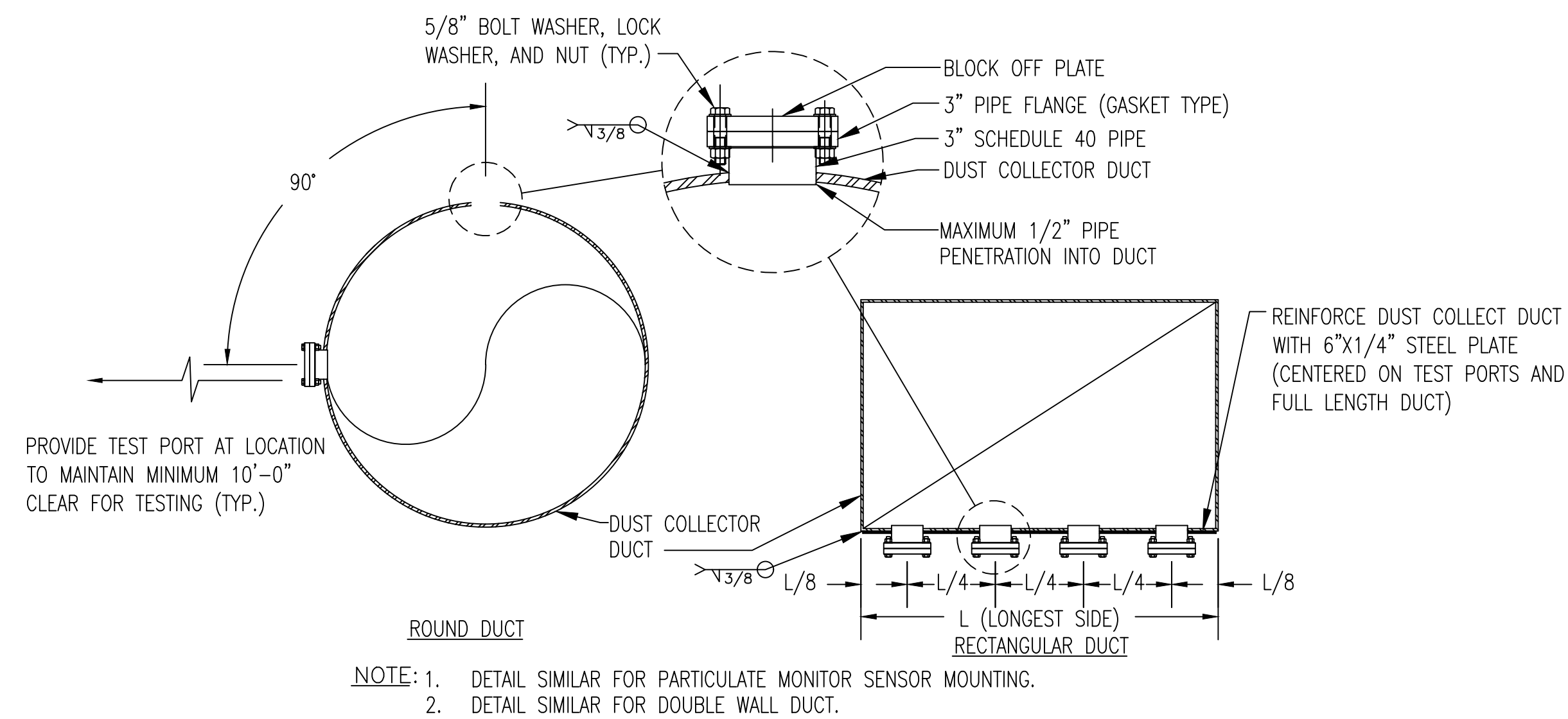


NOTE: PROVIDE DUCT SUPPORTS, BRACES AND GUIDE WIRES REQUIRED..

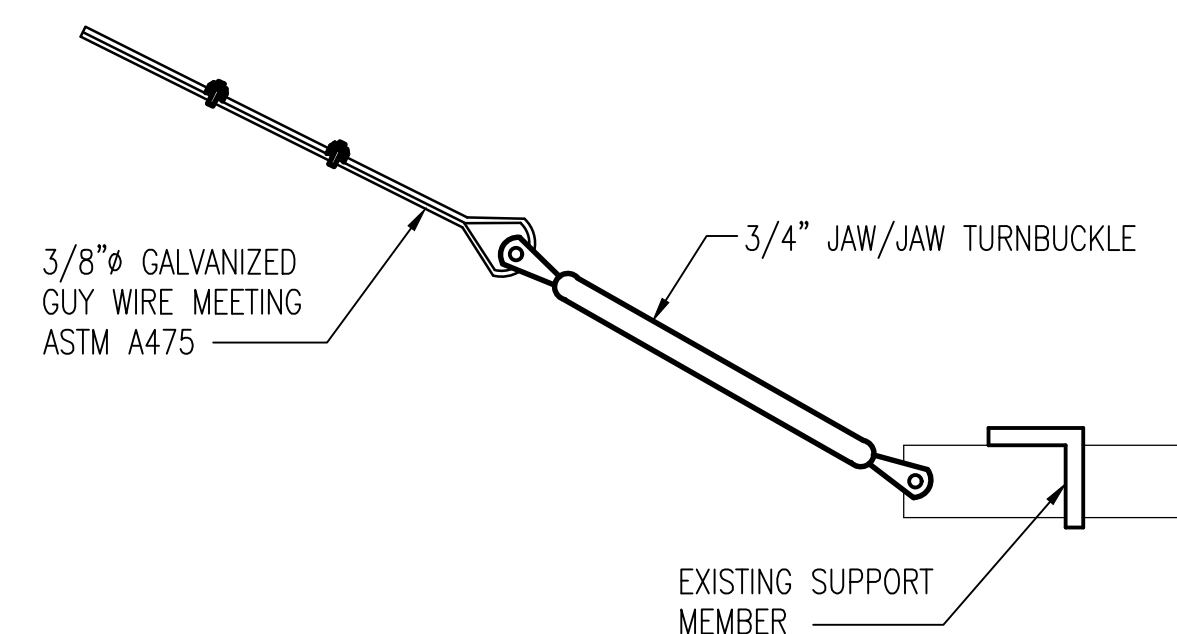
C1 CENTRIFUGAL BLOWER DETAIL
NO SCALE



C2 BREATHING AIR HEADER DETAIL
NO SCALE

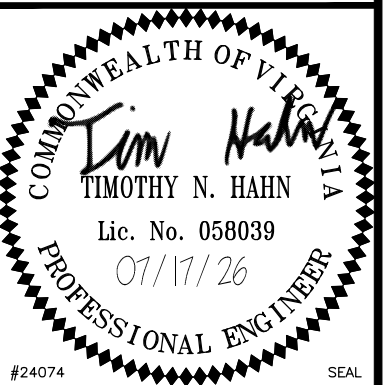


DUCT TEST PORT FLANGE DETAIL



NOTE: CONTRACTOR MUST COORDINATE AND LOCATE CONNECTIONS OF GUYS TO EXISTING STRUCTURAL STEEL FRAMING.

A2 TYPICAL GUY WIRE DETAIL
NO SCALE



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ACTIVITY

SATISFACTORY TO _____

DES	GG	DRW	MAT	CHK	JAK
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U.S.S. MARINE CORPS AIR STATION	CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE BUILDING 4034, FRC-E	
MECHANICAL DETAILS	

SCALE: AS NOTED

SCALE: AS NOTED

PROJECT NO.:	XR11237
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MAXIMO WORK ORDER NO.
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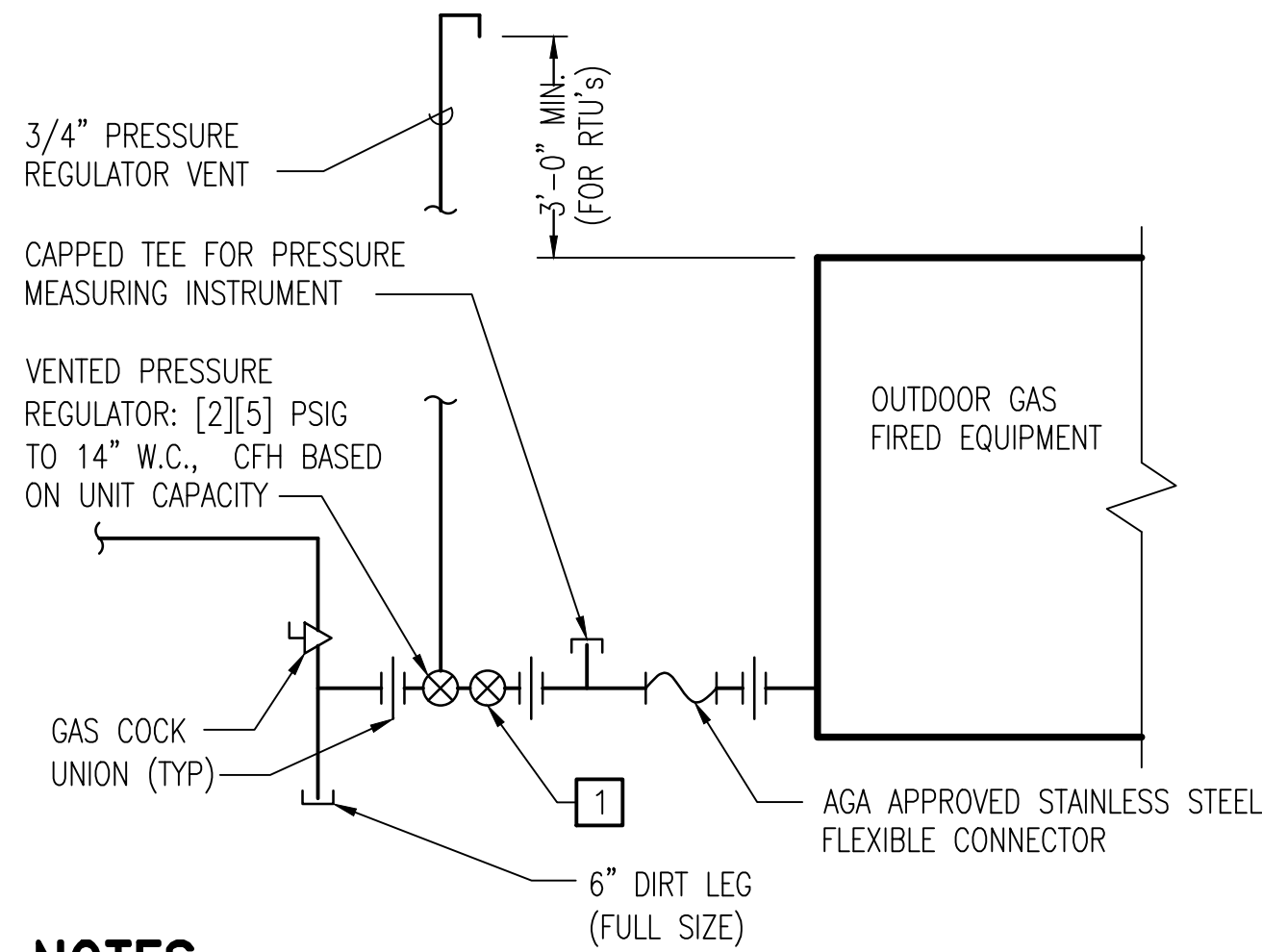
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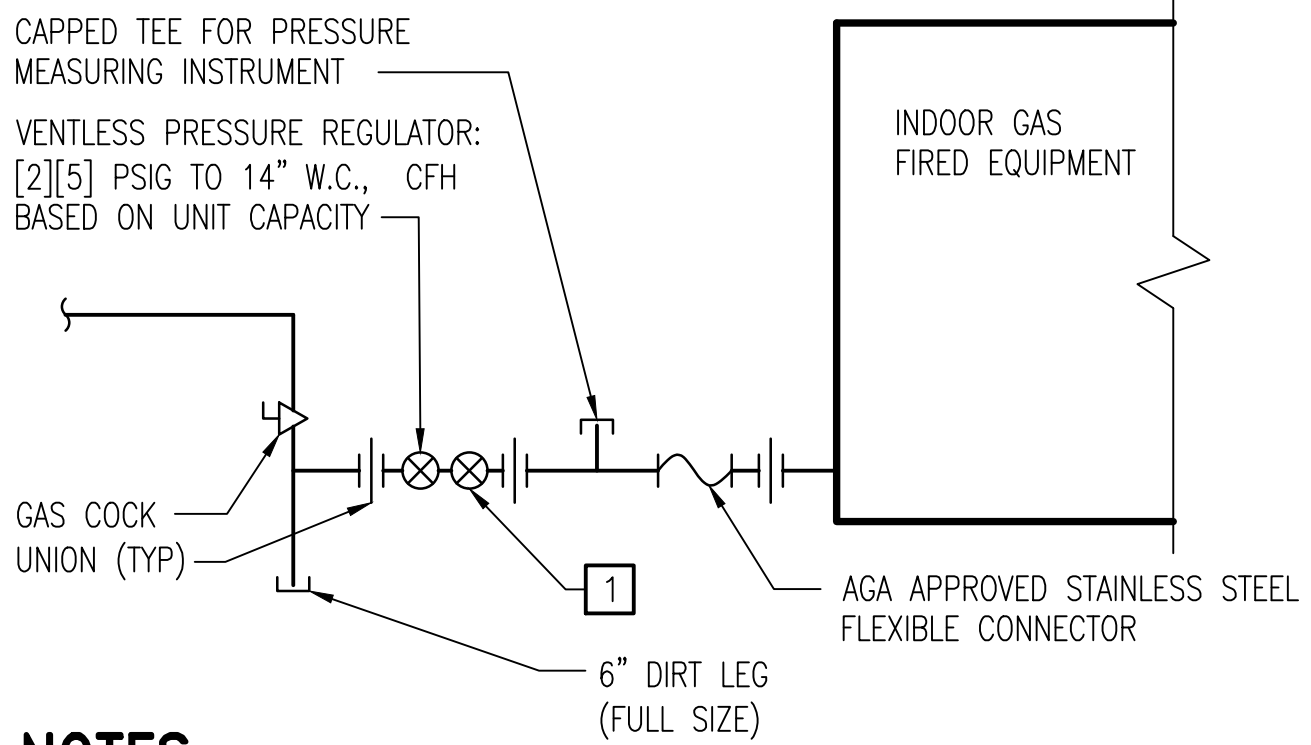
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NOTES

- 1 PROVIDE OVERPRESSURE PROTECTION DEVICE FOR ANY REGULATORS WITH UPSTREAM GAS PRESSURE OVER 2 PSIG PER 2021 VFGC 416.

C3 OUTDOOR EQUIPMENT GAS CONNECTION DETAIL
NO SCALE



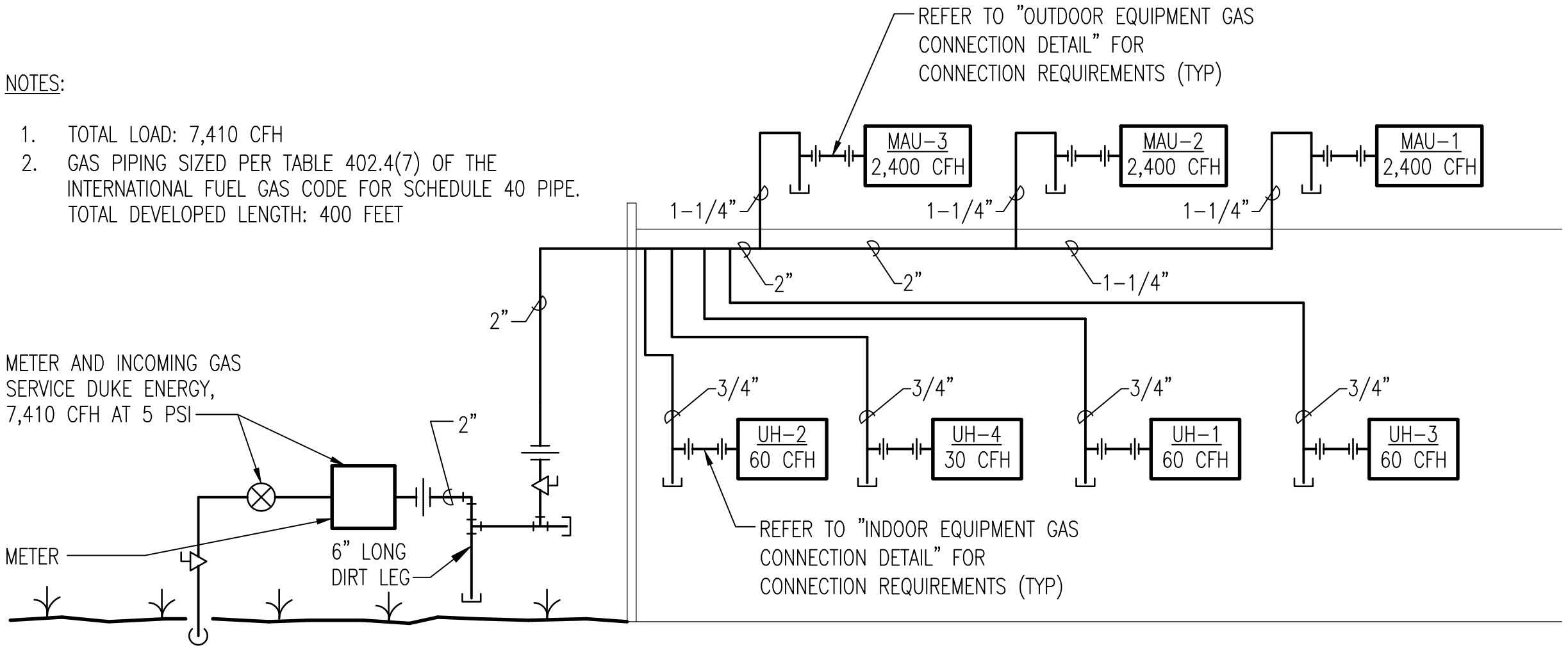
NOTES

- 1 PROVIDE OVERPRESSURE PROTECTION DEVICE FOR ANY REGULATORS WITH UPSTREAM GAS PRESSURE OVER 2 PSIG PER 2021 VFGC 416.

C4 INDOOR EQUIPMENT GAS CONNECTION DETAIL
NO SCALE

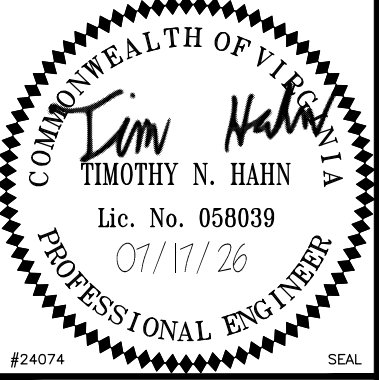
NOTES:

1. TOTAL LOAD: 7,410 CFH
2. GAS PIPING SIZED PER TABLE 402.4(7) OF THE INTERNATIONAL FUEL GAS CODE FOR SCHEDULE 40 PIPE. TOTAL DEVELOPED LENGTH: 400 FEET



B3 GAS PIPING RISER DIAGRAM
NO SCALE

SYN	DESCRIPTION	DATE	APPR



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ACTIVITY

SATISFACTORY TO

DES: GG | DRW: MAT | CHK: JAK



M-505

DRAWING REVISION: 10 MAY 2014

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MAKE-UP AIR UNIT SCHEDULE																				
TAG	LOCATION	SERVICE	C.F.M.	MIN. OA C.F.M.	E.S.P. (IN. W.G.)	R.P.M.	DRIVE	NO. OF FANS / kW EACH	VOLTS	PHASE	GAS HEATING COIL DATA								WEIGHT LBS	REMARKS
											TYPE	INPUT CAPACITY (MBH)	OUTPUT CAPACITY (MBH)	EAT DB (°F)	LAT DB (°F)	MIN. TURNDOWN RATIO	VOLTS	PHASE	KVA	
MAU-1	HIGH ROOF	PMB BOOTH	50,000	16,500	2.0	2364	DIRECT	6 / 8	480	3	NATURAL	2400	1994	55	85	20:1	480	3	0.75	12564 SEE NOTES
MAU-2	HIGH ROOF	PMB BOOTH	50,000	16,500	2.0	2364	DIRECT	6 / 8	480	3	NATURAL	2400	1994	55	85	20:1	480	3	0.75	12564 SEE NOTES
MAU-3	HIGH ROOF	PMB BOOTH	50,000	16,500	2.0	2364	DIRECT	6 / 8	480	3	NATURAL	2400	1994	55	85	20:1	480	3	0.75	12564 SEE NOTES
NOTES: 1. SELECTION BASED ON YORK XTO SERIES. 2. MAKE UP AIR UNIT SHALL HAVE WEATHER PROOF EXTERIOR HOUSING, PIPING VESTIBULE, FILTER SECTION WITH DIFFERENTIAL PRESSURE GAUGE, ROOF CURB, WEATHERHOOD WITH BIRDSCREEN ON INTAKE, MOTORIZED INTAKE DAMPER, AND REMOVABLE ACCESS PANELS. 3. PROVIDE EACH UNIT WITH 223 LB/HR HUMIDIFIER. PROVIDE WITH 2 SEPARATE FAN ELECTRICAL CONNECTIONS, 480/3/60, #1 MCA/MOP - 42.3/60, #2 MCA/MOP - 42.3/60. PROVIDE WITH 120 VOLT ELECTRICAL OUTLET AND SERVICE LIGHT. 4. UNIT SHALL HAVE SERVICE DISCONNECT SWITCH AND UNIT MOUNTED VFD FOR SUPPLY FAN.																				

GRILLE, REGISTER & DIFFUSER SCHEDULE							
TAG	TYPE	SERVICE	C.F.M. RANGE	NECK SIZE	MAX. P.D.	MODEL NO.	REMARKS
A	2x2 LAY-IN	SUPPLY	0-105	6"	0.1	TDCA-AA	SEE NOTES
B	2x2 LAY-IN	SUPPLY	110-215	8"	0.1	TDCA-AA	SEE NOTES
C	2x2 LAY-IN	SUPPLY	220-360	10"	0.1	TDCA-AA	SEE NOTES
D	12X12 SURFACE MOUNTED	SUPPLY	0-105	6"	0.1	TDCA-AA	SEE NOTES
E	12X12 SURFACE MOUNTED	SUPPLY	110 - 230	8"	0.1	TDCA-AA	SEE NOTES
F	12X12 LOUVERED SURFACE MOUNTED	EXHAUST	0-105	6"	0.1	350FL	SEE NOTES
G	12X12 LOUVERED SURFACE MOUNTED	EXHAUST	110-225	8"	0.1	350FL	SEE NOTES
H	2X2 LOUVERED LAY-IN	RETURN	0-105	6X6	0.1	350FL	SEE NOTES
J	2X2 LOUVERED LAY-IN	RETURN	110-225	8X8	0.1	350FL	SEE NOTES
K	2X2 LOUVERED LAY-IN	RETURN	230-400	10X10	0.1	350FL	SEE NOTES
L	2X2 LOUVERED LAY-IN	RETURN	405-650	12X12	0.1	350FL	SEE NOTES
M	2X2 LOUVERED LAY-IN	RETURN	660-1540	20X20	0.1	350FL	SEE NOTES
X	EXISTING AIR DEVICE TO REMAIN	-	-	-	-	-	CLEAN AND REBALANCE
THE FOLLOWING NOTES ARE TYPICAL UNLESS OTHERWISE NOTED: 1. SELECTIONS BASED ON TITUS. 2. PROVIDE ALUMINUM DIFFUSERS AND REGISTERS WITH OPPOSED BLADE VOLUME DAMPERS, BAKED STANDARD WHITE ENAMEL FINISH (INCLUDING HEAD OF SCREWS), MAXIMUM NC=25 AT HIGHEST CFM AND PROVIDE SQUARE TO ROUND TRANSITION AS REQUIRED. 3. PROVIDE 4-WAY PATTERN CEILING DIFFUSERS, U.O.N. ON PLANS OR SCHEDULE. 4. PROVIDE SURFACE MOUNTED DIFFUSERS AND EXHAUST GRILLES WITH PLASTER FRAME. 5. MAXIMUM PRESSURE DROP SHALL INCLUDE VOLUME DAMPER WHERE DAMPER IS PROVIDED.							

COMPRESSED AIR AFTERCOOLER SCHEDULE						
TAG	CAPACITY AIR FLOW (SCFM)	MAX PRESSURE (PSI)	MOTOR (HP)	VOLT	PHASE	REMARKS
AC-1	605	175	1	120	1	SEE NOTES
NOTES: 1. AFTERCOOLER MUST MATCH CAPACITY AS EXISTING AIR COMPRESSOR (INGERSOLL RAND, MODEL NUMBER 7100E15).						

FAN SCHEDULE											
TAG	LOCATION	FAN TYPE	C.F.M.	E.S.P. (IN. WG.)	MAX SONES	DRIVE	ELECTRICAL DATA			MODEL NO.	REMARKS
							H.P.	VOLTS	PHASE		
EF-1	ON GRADE	CENTRIFUGAL BLOWER	50,000	15.0	-	BELT	150	480	3	-	5,6
EF-2	ON GRADE	CENTRIFUGAL BLOWER	50,000	15.0	-	BELT	150	480	3	-	5,6
EF-3	ON GRADE	CENTRIFUGAL BLOWER	50,000	15.0	-	BELT	150	480	3	-	5,6
EF-4	LOW ROOF	CENTRIFUGAL ROOF FAN	400	0.75	15	DIRECT	1/10	120	1	G	1,2,3
EF-5	RM-144	SIDEWALL, PROPELLER FAN	12,000	0.25	15	DIRECT	2	208	3	AER	1
EF-6	RM-144	SIDEWALL, PROPELLER FAN	12,000	0.25	15	DIRECT	2	208	3	AER	1
EF-7A	RM-146	IN-LINE	2,000	0.35	15	DIRECT	1/2	480	3	SQ	1,2,7
EF-7B	RM-146	IN-LINE	2,000	0.35	15	DIRECT	1/2	480	3	SQ	1,2,7
EF-8	RM-145	CABINET FAN	200	0.35	15	DIRECT	30W	120	1	SP	1,2,4
EF-9	LOW ROOF	CENTRIFUGAL ROOF FAN	50	0.35	15	DIRECT	1/15	120	1	G	1,2,3
EF-10	LOW ROOF	CENTRIFUGAL ROOF FAN	300	0.50	15	DIRECT	1/10	120	1	G	1,2,3
EF-11	RM-118	IN-LINE	2,000	0.50	15	DIRECT	1/2	480	3	SQ	1,2,4
EF-12	LOW ROOF	CENTRIFUGAL ROOF FAN	650	0.50	15	DIRECT	1/6	120	1	G	1,2,3
EF-13	RM-148	CABINET FAN	900	0.50	15	DIRECT	420W	120	1	SP	1,2,4
NOTES: 1. SELECTIONS BASED ON GREENHECK. 2. PROVIDE DIRECT DRIVE FANS WITH ELECTRONIC SPEED CONTROLLER. 3. PROVIDE ROOF TOP CENTRIFUGAL FANS WITH MOTORIZED BACKDRAFT DAMPER, INTREGAL ELECTRICAL DISCONNECT, ALUMINUM CONSTRUCTION, REMOVABLE DOME, BIRDSCREEN AND MANUFACTURER'S ROOF CURB. 4. PROVIDE CABINET CEILING FANS WITH CHATTERPROOF BDD, INTEGRAL ELECTRICAL DISCONNECT, DUCT FLANGE, AND INTEGRAL OFF-WHITE ALUMINUM INTAKE GRILLE. 5. PROVIDE UTILITY SET FANS WITH DRAIN IN FAN HOUSING. PROVIDE WITH INVERTER DUTY MOTOR AND VFD. 6. FAN SELECTION SHALL BE COORDINATED WITH DUST COLLECTOR BEING PROVIDED. 7. PROVIDE INLINE FANS WITH CHATTERPROOF BDD, INTEGRAL ELECTRIC DISCONNECT, DUCT FLANGES, AND 4 POINT VIBRATION HANGER SYSTEM.											

COMPRESSED AIR DRYER SYSTEM SCHEDULE							
TAG	CAPACITY AIR FLOW (SCFM)	CAPACITY INLET PRESSURE (PSIG)	DEW POINT INLET TEMP (°F)	ELECTRICAL DATA			REMARKS
				VOLTS	PHASE	HZ	
AD-1	605	175	40	115	1	60	SEE NOTES
NOTES: 1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. 2. BASIS OF DESIGN IS PIONEER, R-SERIES. 3. PROVIDE WITH FLOAT DRAIN AND MR. GOODAIRE FILTRATION OPTION.							



APPR

DATE

DESCRIPTION

748 Lord Dunmore Drive, Suite 101
Virginia Beach, VA 23464
Phone 757-474-0812
Fax 757-474-0919
A/E: NRW
APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO
DES: GG | DRW: MAT | CHK: JAK
SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO. 7375939
NAVFAC DRAWING NO. 12816298
SHEET 87 OF 113
M-602
DRAWING REVISION: 10 MAY 2014

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE
BUILDING 4034, FRC-E
MECHANICAL SCHEDULES

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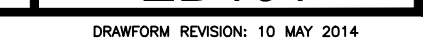
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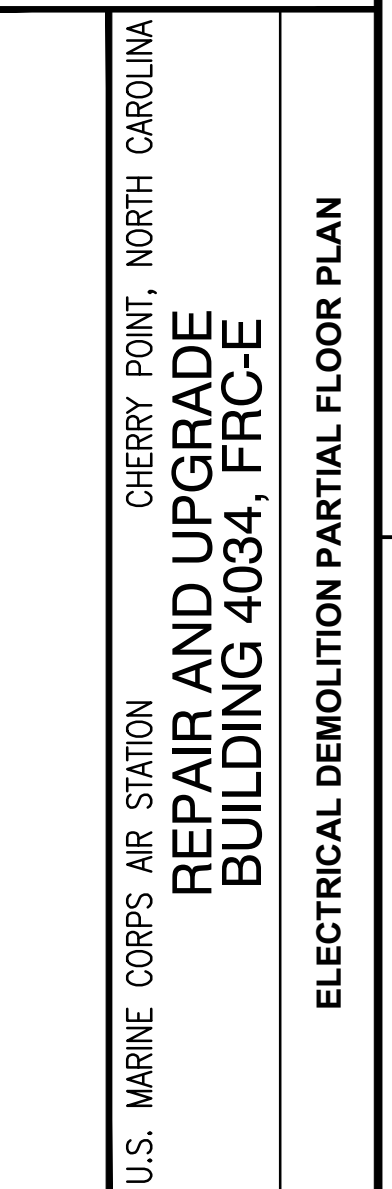


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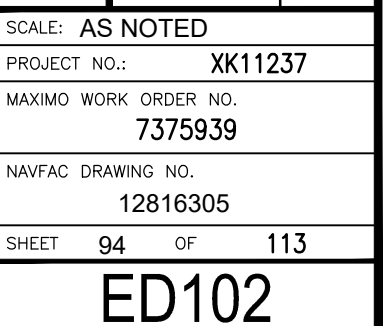
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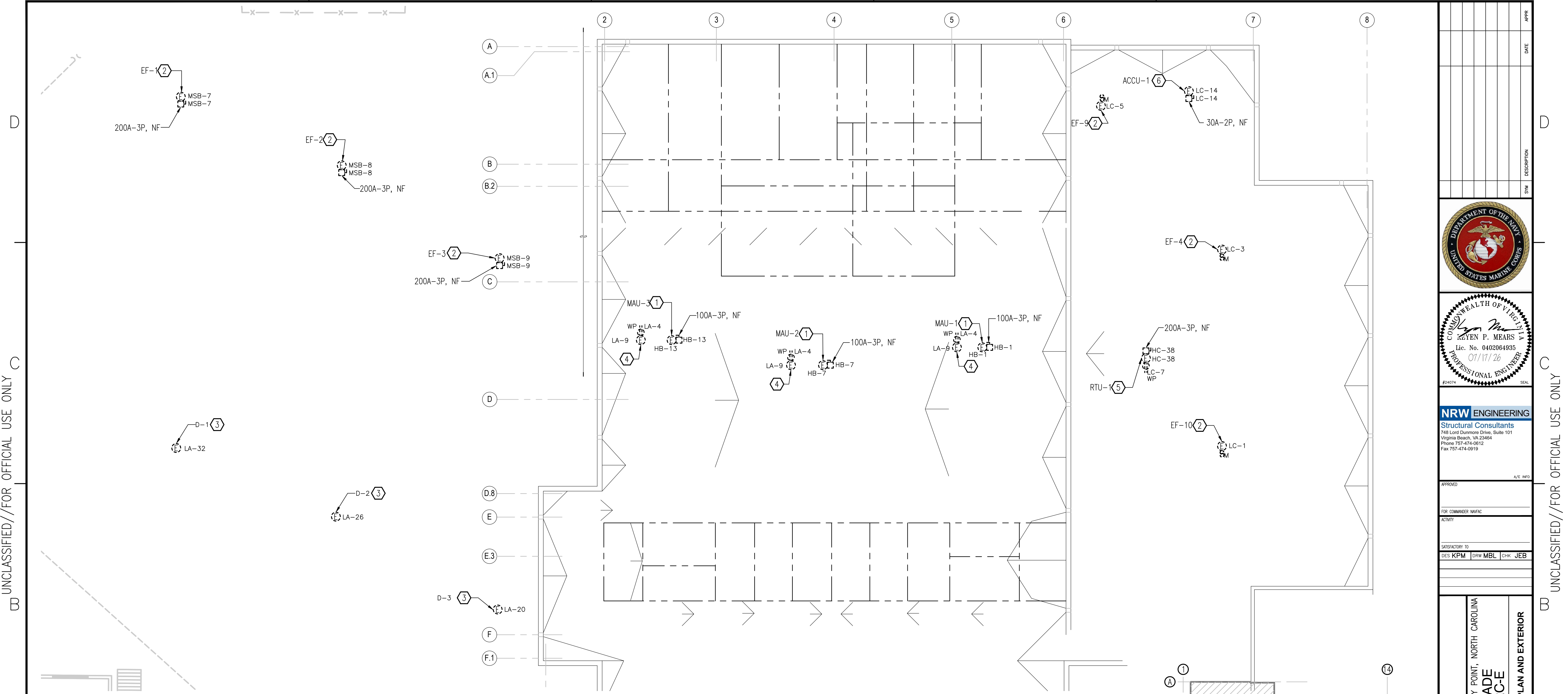
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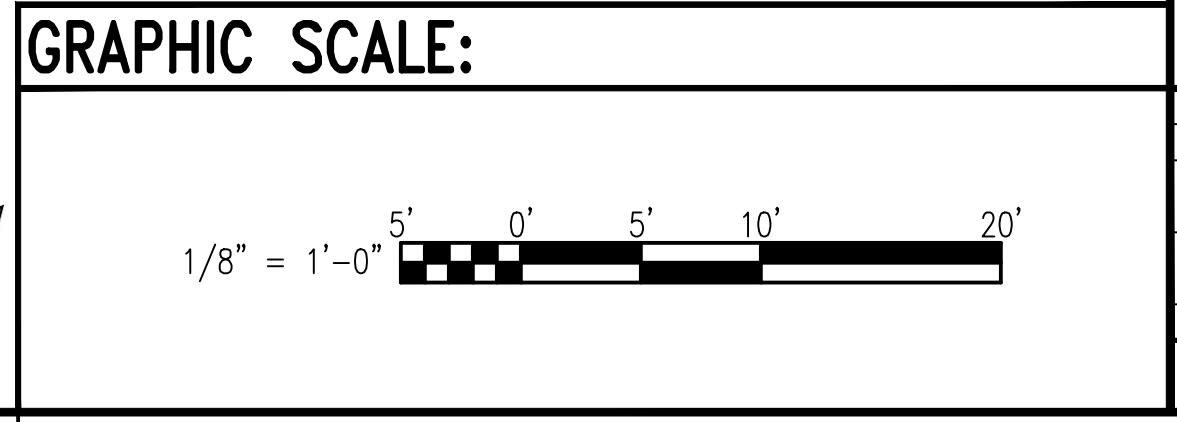
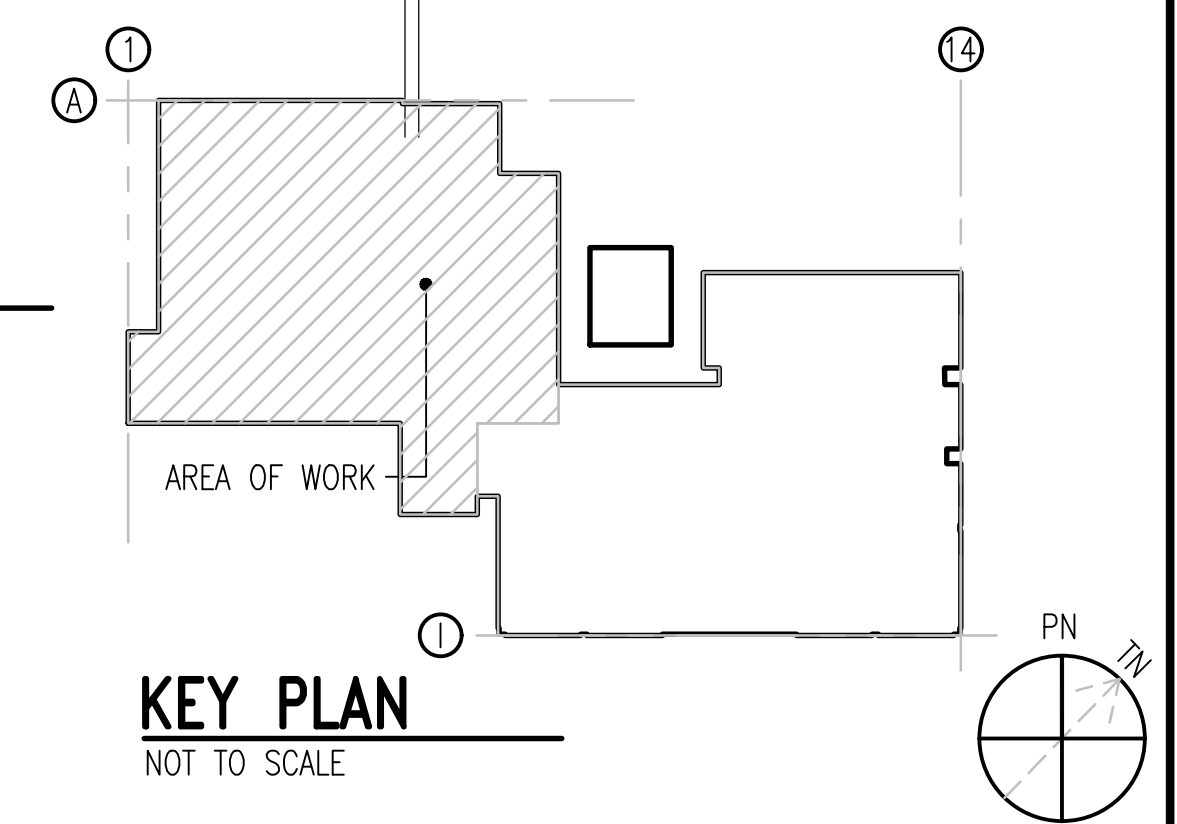
GRAPHIC SCALE:





(A1) ELECTRICAL DEMOLITION PARTIAL ROOF PLAN AND EXTERIOR EQUIPMENT
SCALE: 1/8" = 1'-0"

- SHEET KEYNOTES**
- 1 REMOVE MAKE UP AIR UNIT CONNECTION AND ASSOCIATED DISCONNECT AND CIRCUIT COMPLETE BACK TO SOURCE.
 - 2 REMOVE EXHAUST FAN CONNECTION AND ASSOCIATED DISCONNECT AND CIRCUIT COMPLETE BACK TO SOURCE.
 - 3 REMOVE DUST COLLECTOR CONNECTION AND ASSOCIATED DISCONNECT AND CIRCUIT COMPLETE BACK TO SOURCE.
 - 4 REMOVE HEAT TAPE CONNECTION AND ASSOCIATED DISCONNECT AND CIRCUIT COMPLETE BACK TO SOURCE.
 - 5 REMOVE ROOF TOP UNIT CONNECTION AND ASSOCIATED DISCONNECT AND CIRCUIT COMPLETE BACK TO SOURCE.
 - 6 REMOVE MECHANICAL EQUIPMENT CONNECTION AND ASSOCIATED DISCONNECT AND CIRCUIT COMPLETE BACK TO SOURCE.



APPR	DATE	SYN	DESCRIPTION
NRW ENGINEERING Structural Consultants 748 Lord Dunmore Drive, Suite 101 Virginia Beach, VA 23464 Phone 757-474-0612 Fax 757-474-0919			
APPROVED			
FOR COMMANDER NAVFAC			
ACTIVITY			
SATISFACTORY TO			
DES	KPM	DRW	MBL
CHK	JEB		
U.S. MARINE CORPS AIR STATION CHERRY POINT, NORTH CAROLINA REPAIR AND UPGRADE BUILDING 4034, FRC-E ELECTRICAL DEMOLITION PARTIAL ROOF PLAN AND EXTERIOR			
SCALE: AS NOTED			
PROJECT NO.: XK11237			
MAXIMO WORK ORDER NO. 7375939			
NAVFAC DRAWING NO. 12816306			
SHEET 95 OF 113			
ED103			
DRAWING REVISION: 10 MAY 2014			

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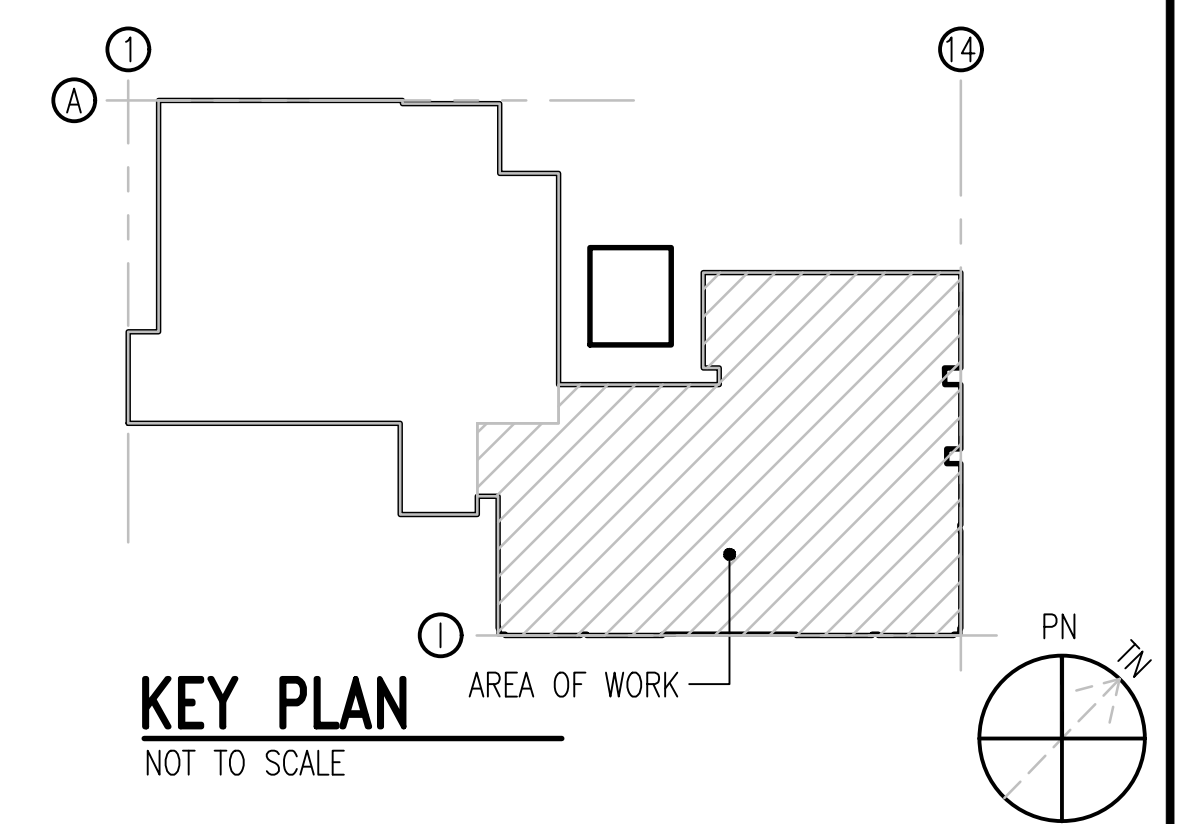
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A1 ELECTRICAL DEMOLITION PARTIAL ROOF PLAN
SCALE: 1/8" = 1'-0"

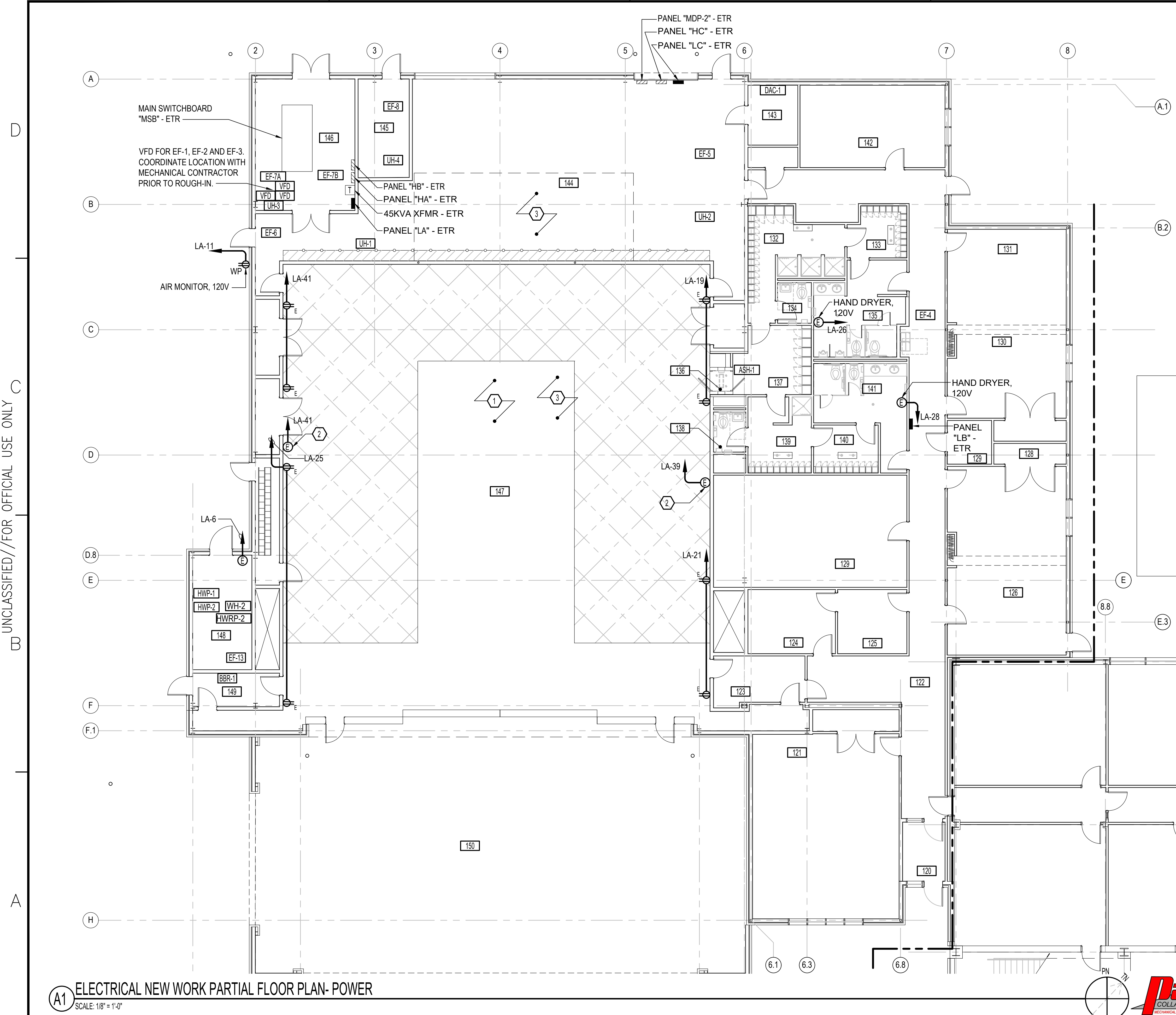
- SHEET KEYNOTES**
- 1 REMOVE EXHAUST FAN CONNECTION AND ASSOCIATED DISCONNECT AND CIRCUIT COMPLETE BACK TO SOURCE.
 - 2 REMOVE HEAT PUMP CONNECTION AND ASSOCIATED DISCONNECT AND CIRCUIT COMPLETE BACK TO SOURCE.
 - 3 REMOVE ROOF TOP UNIT CONNECTION AND ASSOCIATED DISCONNECT AND CIRCUIT COMPLETE BACK TO SOURCE.



GRAPHIC SCALE:



APPR	DATE	SYN	DESCRIPTION
APPROVED			
FOR COMMANDER NAVFAC			
ACTIVITY			
SATISFACTORY TO			
DES KPM DRW MBL CHK JEB			
U.S. MARINE CORPS AIR STATION CHERRY POINT, NORTH CAROLINA			
REPAIR AND UPGRADE BUILDING 4034, FRC-E			
ELECTRICAL DEMOLITION PARTIAL ROOF PLAN			
SCALE: AS NOTED			
PROJECT NO.: XK11237			
MAXIMO WORK ORDER NO. 7375939			
NAVFAC DRAWING NO. 12816307			
SHEET 96 OF 113			
ED104			
DRAWING REVISION: 10 MAY 2014			



SHEET KEYNOTES

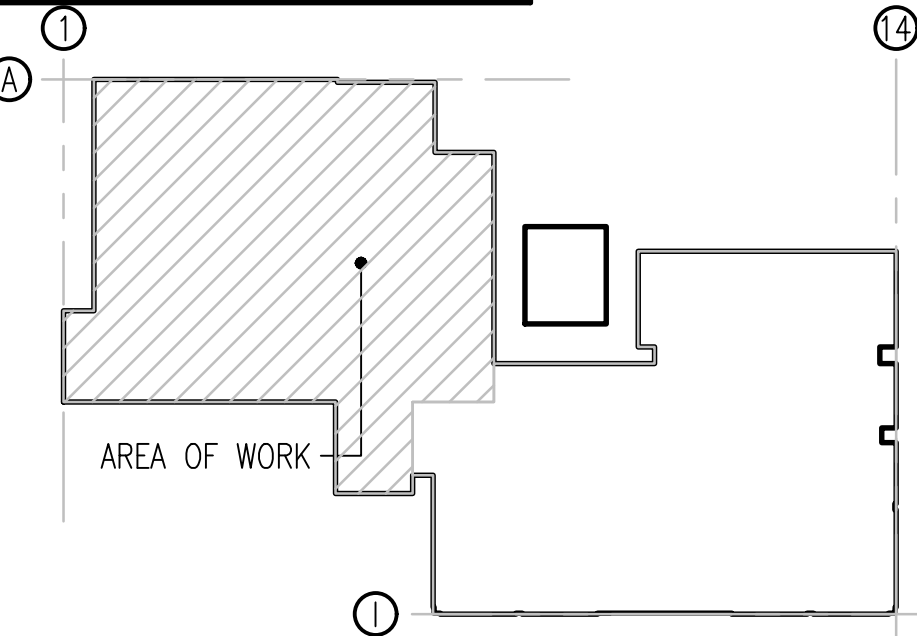
- 1 THIS SPACE IS A CLASS 2 DIVISION 1 HAZARDOUS LOCATION. ALL EQUIPMENT INSTALLED IN THIS SPACE SHALL COMPLY AND BE INSTALLED IN ACCORDANCE WITH NEC REQUIREMENTS FOR A CLASS 2 DIVISION 1 SPACE.
- 2 BLAST EQUIPMENT CONTROL PANEL, 120V
- 3 ANY ELECTRICAL WORK FOR PMB EQUIPMENT IS CLIN 0002. PMB EQUIPMENT SUPPLIER AND INSTALLER SHALL PROVIDE ALL NEW ELECTRICAL FEEDS AS NECESSARY FOR NEW EQUIPMENT, ETC.

CLIN 0002 PMB GROUNDING NOTE:

ALL METALLIC OBJECTS WITHIN SPACE 147 AND ALL METALLIC OBJECTS ASSOCIATED WITH THE PLASTIC MEDIA BLASTING EQUIPMENT SHALL BE GROUNDED AND BONDED TO THE BUILDING GROUNDING SYSTEM VIA #8 GROUNDING CONDUCTOR(S). THIS INCLUDES, BUT IS NOT LIMITED TO, EQUIPMENT FRAMES, SUPPORT STRUCTURES, DUCTWORK, AND PIPING.

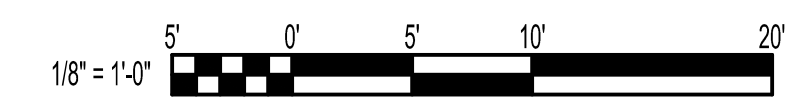
ROOM SCHEDULE

120	VESTIBULE
121	OPEN OFFICE
122	CORRIDOR
123	VESTIBULE
124	SUPERVISOR
125	ADMIN
126	OPEN OFFICE
127	OPEN OFFICE
128	STORAGE
129	STORAGE
130	STORAGE
131	OPEN OFFICE
132	LOCKER ROOM
133	LOCKER ROOM
134	TOILET
135	MENS HEAD
136	BLAST DOWN
137	GEAR
138	TOILET
139	LOCKER ROOM
140	LOCKER ROOM
141	WOMENS HEAD
142	BREAK ROOM
143	COMM
144	BLAST EQUIPMENT
145	SPRINKLER
146	ELECTRICAL
147	PLASTIC MEDIA BLASTING FACILITY
148	STEAM ROOM
149	VESTIBULE
150	COVERED SPACE



KEY PLAN
NOT TO SCALE

GRAPHIC SCALE:



A1 ELECTRICAL NEW WORK PARTIAL FLOOR PLAN- POWER
SCALE: 1/8" = 1'-0"



APPR
DATE
SYN
DESCRIPTION

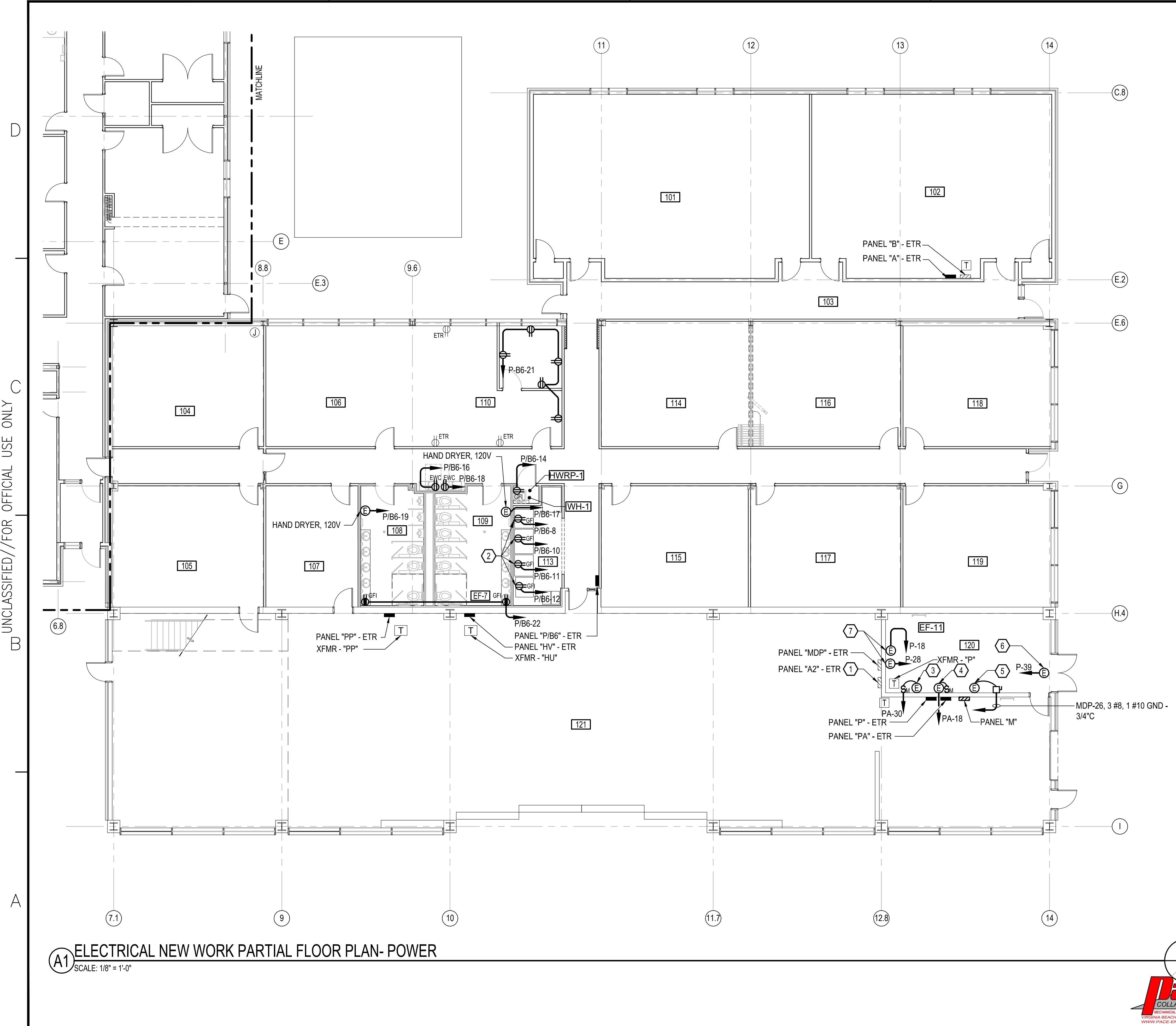
COMMONWEALTH OF VIRGINIA
KEYEN P. MEARS
Lic. No. 0402064935
01/11/26
PROFESSIONAL ENGINEER
#24074

NRW ENGINEERING
Structural Consultants
748 Lord Dunmore Drive, Suite 101
Virginia Beach, VA 23464
Phone 757-474-0812
Fax 757-474-0919

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO
DES KPM DRW MBL CHK JEB

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE
BUILDING 4034, FRC-E
ELECTRICAL NEW WORK PARTIAL FLOOR PLAN- POWER

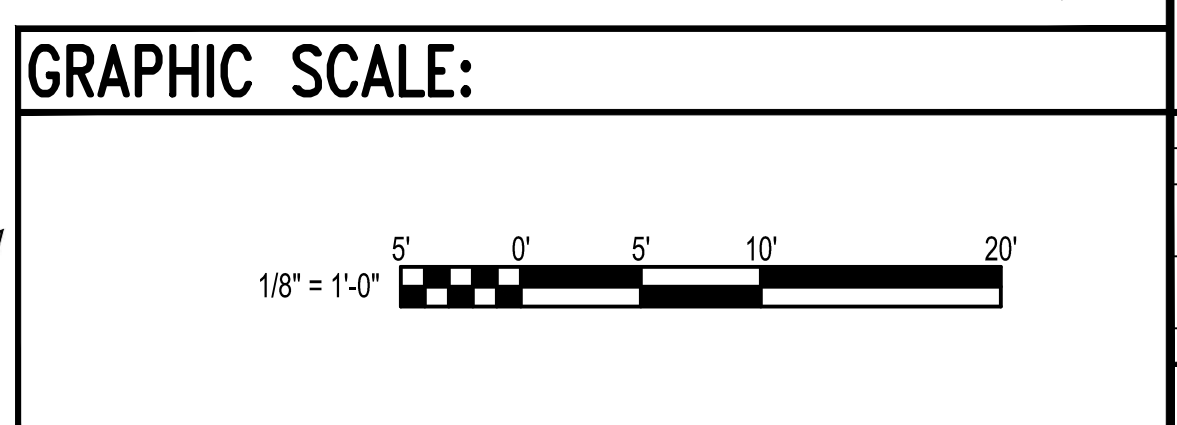
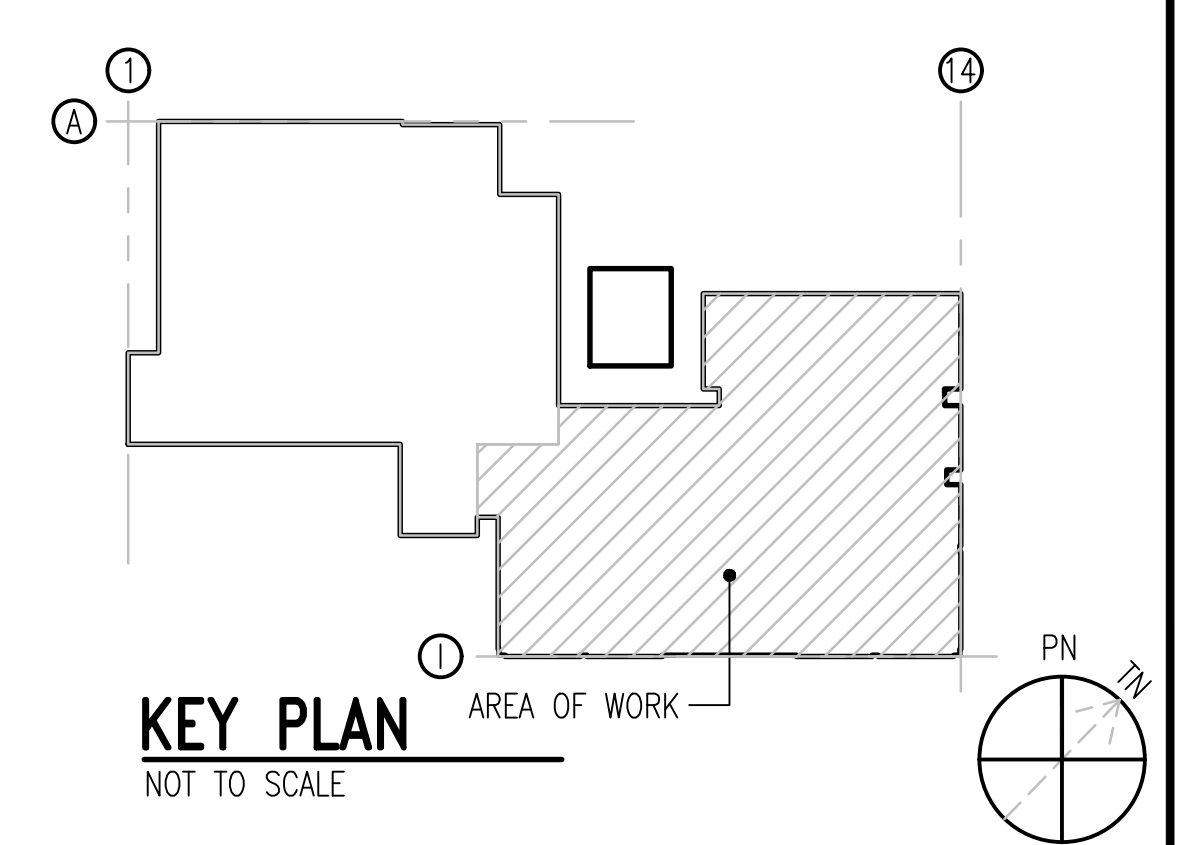
SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO.
7375939
NAVFAC DRAWING NO.
12816309
SHEET 98 OF 113
E-201
DRAWING REVISION: 10 MAY 2014



- ### SHEET KEYNOTES
- 1 REMOVE EXISTING PANEL LABEL AND PROVIDE NEW LABEL AS INDICATED.
 - 2 VENDING, 120V.
 - 3 AIR DRYER, 120V.
 - 4 AFTER COOLER, 120V.
 - 5 AIR COMPRESSOR, 15HP, 208V, 3Ø
 - 6 MOTORIZED DAMPER, 120V.
 - 7 DDC PANEL, 120V.

ROOM SCHEDULE

101	CLASSROOM
102	CLASSROOM
103	CORRIDOR
104	OFFICE
105	CLASSROOM
106	OPEN OFFICE
107	OFFICE
108	MENS HEAD
109	WOMENS HEAD
110	JANITOR
111	VENDING
112	CLASSROOM
113	CLASSROOM
114	CLASSROOM
115	CLASSROOM
116	CLASSROOM
117	CLASSROOM
118	MECHANICAL ROOM
119	RUBBER SHOP



APPR

DATE

SYN

DESCRIPTION

NRW ENGINEERING

Structural Consultants

748 Lord Dunmore Drive, Suite 101

Virginia Beach, VA 23464

Phone 757-474-0512

Fax 757-474-0919

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ACTIVITY

SATISFACTORY TO

DES KPM | DRW MBL | CHK JEB

U.S. MARINE CORPS AIR STATION

CHERRY POINT, NORTH CAROLINA

REPAIR AND UPGRADE

BUILDING 4034, FRC-E

ELECTRICAL NEW WORK PARTIAL FLOOR PLAN- POWER

SCALE: AS NOTED

PROJECT NO.: XK11237

MAXIMO WORK ORDER NO. 7375939

NAVFAC DRAWING NO. 12816310

SHEET 99 OF 113

E-202

DRAWING REVISION: 10 MAY 2014

A1 ELECTRICAL NEW WORK PARTIAL FLOOR PLAN- POWER
SCALE: 1/8" = 1'-0"

D

C

B

A

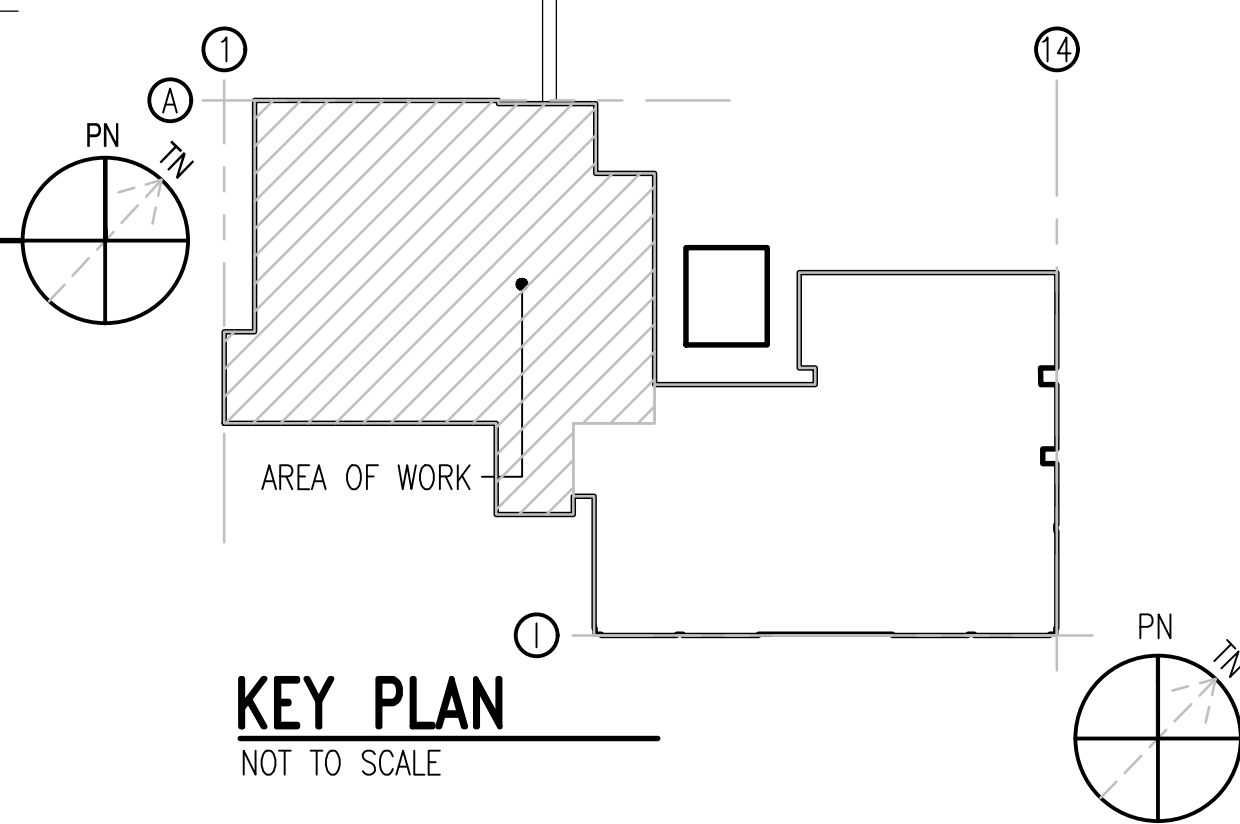
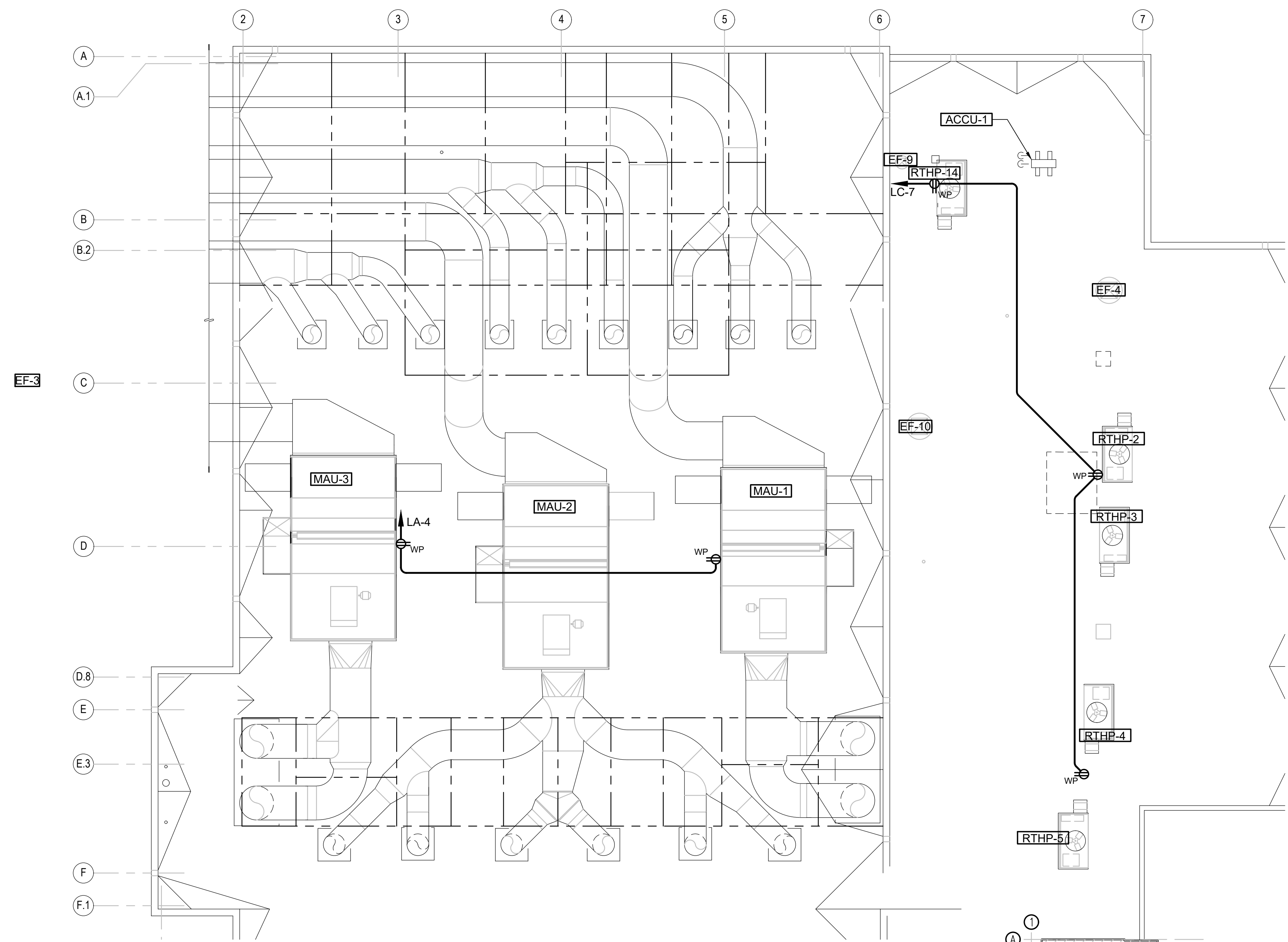
D

C

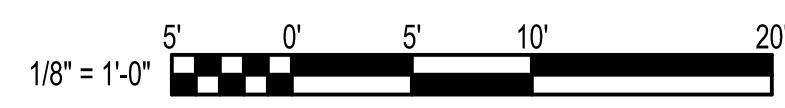
B

A

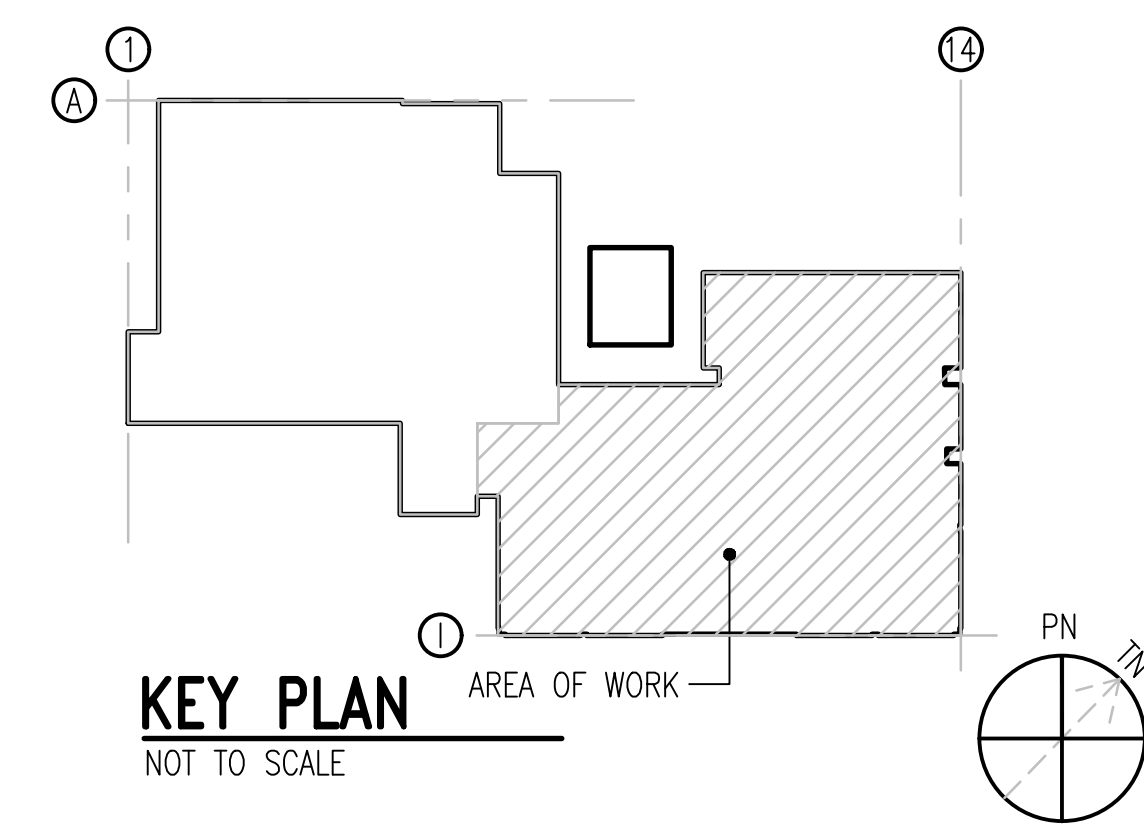
B1 ELECTRICAL NEW WORK PARTIAL ROOF PLAN AND EXTERIOR
SCALE: 1/8" = 1'-0"



GRAPHIC SCALE:



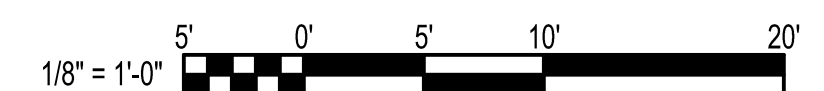
APPROVED	DATE	APPR
DESCRIPTION	DATE	APPR
NRW ENGINEERING Structural Consultants 748 Lord Dunmore Drive, Suite 101 Virginia Beach, VA 23464 Phone 757-474-0612 Fax 757-474-0919		
APPROVED		
FOR COMMANDER NAVFAC		
ACTIVITY		
SATISFACTORY TO		
DES KPM	DRW MBL	CHK JEB
U.S. MARINE CORPS AIR STATION CHERRY POINT, NORTH CAROLINA REPAIR AND UPGRADE BUILDING 4034, FRC-E ELECTRICAL NEW WORK PARTIAL ROOF PLAN AND EXTERIOR		
SCALE: AS NOTED		
PROJECT NO.: XK11237		
MAXIMO WORK ORDER NO. 7375939		
NAVFAC DRAWING NO. 12816311		
SHEET 100 OF 113		
E-203		
DRAWING REVISION: 10 MAY 2014		



GRAPHIC SCALE:

1/8" = 1'-0"

5' 0' 5' 10' 20'

[illegible]

EXISTING PANELBOARD MDP SCHEDULE														
SEE POWER RISER DIAGRAM FOR RATINGS														
LOAD SERVED	LOAD (AMPS)			BKR TRIP	CKT NO.	PHASE			CKT NO.	BKR TRIP	LOAD (AMPS)			LOAD SERVED
	A	B	C			A	B	C			A	B	C	
100A DISC. SWITCH *	40.0			100/2P	1				2	40/3P				SPARE
EXHAUST BLOWER *		40.0		20/3P	5				8	175/3P	42.8		45.1	PANEL A *
			6.0											
	6.0													
		6.0												
LIGHTING+			7.2	20/1P	11									43.4
LIGHTING+	7.8			20/1P	13				14	50/3P	19.2			PANEL PB6 *
LIGHTING+		10.8		20/1P	15						17.1			VIA XFMR
LIGHTING+				20/1P	17								18.2	
SPARE +				20/1P	19				20	125/3P	23.4			PANEL HV +
SPARE +				20/1P	21						23.4			VIA XFMR
SPARE +				20/1P	23								23.4	
CONTRACTOR XFMR *	30.0			60/2P	25				26	40/3P	30.0			AIR COMPRESSOR
		30.0										30.0		
SPARE +				20/1P	29								30.0	
PANEL A2 *	52.0			100/3P	31				32	30/3P	17.0			HOIST *
		52.0										17.0		
			52.0										17.0	
RUBBER MILL TEMP *	40.0			60/3P	37				38	150/3P	54.0			PANEL P & PA *
		40.0										52.9		VIA XFMR
			40.0										65.0	
240V XFMR *	60.0			175/3P	43				44	70/3P				SPARE +
		60.0												
			60.0											
TOTAL	235.8	238.8	165.2								186.3	185.5	197.0	TOTAL
TOTAL CONNECTED AMPS				A: 422.1			B: 424.3			C: 362.2				

NOTES:
PANELBOARD IS A SQUARE D "I-LINE" SERIES
* INDICATES EXISTING LOAD
+ INDICATES NEW LOAD. EXISTING LOAD REMOVED DURING DEMOLITION

EXISTING PANELBOARD MDP-2 SCHEDULE														
SEE POWER RISER DIAGRAM FOR RATINGS														
LOAD SERVED	LOAD (AMPS)			BKR TRIP	CKT NO.	PHASE			CKT NO.	BKR TRIP	LOAD (AMPS)			LOAD SERVED
	A	B	C			A	B	C			A	B	C	
PANEL HC *	74.2			225/3P	1				2	100/3P				SPARE
		74.2												
			73.4											
RTHP-1++	15.2			20/3P	7				8	250/3P				SPARE
		15.2												
			15.2											
RTHP-2++	15.2			20/3P	13				14	250/3P				SPARE
		15.2												
			15.2											
RTHP-3++	19.2			25/3P	19				20	50/3P	33.8			MAU-1
		19.2									33.8			FAN CONNECTION ++
			19.2									33.8		
RTHP-5++	28.0			35/3P	25				26	50/3P	33.8			MAU-1
		28.0									33.8			FAN CONNECTION ++
			28.0									33.8		
RTHP-4++	28.0			20/3P	31				32	25/3P				SPARE
		28.0												
			28.0											
MAU-2	33.8			50/3P	37				38	50/3P	33.8			MAU-3
FAN CONNECTION ++		33.8									33.8			FAN CONNECTION ++
			33.8									33.8		
MAU-2	33.8			50/3P	43				44	50/3P	33.8			MAU-3
FAN CONNECTION ++		33.8									33.8			FAN CONNECTION ++
			33.8									33.8		
SPARE				25/3P	49				50	25/3P				SPARE
TOTAL	247.4	247.4	246.6								135.2	135.2	135.2	TOTAL
TOTAL CONNECTED AMPS				A: 382.6			B: 382.6			C: 381.8				

NOTES:
PANELBOARD IS A SQUARE D "I-LINE" SERIES
* INDICATES EXISTING LOAD TO REMAIN
++ INDICATES EXISTING LOAD REMOVED DURING DEMOLITION. PROVIDE CIRCUIT BREAKER INDICATED. TURN OVER EXISTING CIRCUIT BREAKER REMOVED TO GOVERNMENT.

EXISTING PANELBOARD P SCHEDULE														
SEE POWER RISER DIAGRAM FOR RATINGS														
LOAD SERVED	LOAD (AMPS)			BKR TRIP	CKT NO.	PHASE			CKT NO.	BKR TRIP	LOAD (AMPS)			LOAD SERVED
	A	B	C			A	B	C			A	B	C	
RM 8 REC. *	6.0			20/1P	1				2	20/1P				SPARE +
RM 8 REC. *		6.0		20/1P	3				4	20/1P		6.0		COFFEE *
RM 6, 8 REC. *			6.0	20/1P	5				6	20/1P			1.5	WOMEN BATH REC. *
RM 3,7 REC. *	6.0			20/1P	7				8	20/1P	6.0			RM 5 REC. *
RRM 2,3 REC. *		6.0		20/1P	9				10	20/1P		6.0		RM 5 REC. *
RM 1,2 REC. *			6.0	20/1P	11				12	20/1P			6.0	RM 5 REC. *
RM 3,5,7 REC. *	6.0			20/1P	13				14	20/1P	6.0			RM 6,RUBBER REC. *
RM 1,2,HALL REC. *		6.0		20/1P	15				16	20/1P		6.0		RUBBERSHOP REC. *
RM 3,5 REC. *			6.0	20/1P	17				18	20/1P		4.0		DDC PANEL
RM 2,3 REC. *	6.0			20/1P	19				20	20/1P	6.0			RUBBERSHOP REC. *
RM 1,2 REC. *		6.0		20/1P	21				22	20/1P		6.0		RUBBERSHOP REC. *
RM 9,10 REC. *			6.0	20/1P	23				24	20/1P			6.0	RM 5,RUBBER REC. *
RM 9 REC. *	6.0			20/1P	25				26	20/1P	6.0			RM 6,8,HALL,RUB REC *
RM 9,10 REC. *		6.0		20/1P	27				28	20/1P		4.0		DDC PANEL
RM 10 REC. *			6.0	20/1P	29				30	20/1P			6.0	MECH, RUBBER REC. *
RM 10 REC. *	6.0			20/1P	31				32	20/1P	6.0			RECEPTACLE *
RUBBERSHOP REC. *		17.0		30/2P	33				34	20/1P		6.0		RUBBERSHOP REC. *
			17.0						36	20/1P			4.0	TELECOM REC. *
COFFEE *	6.0			20/1P	37				38	20/1P	4.0			RM 9 PROJECTOR *
DAMPER		1.0		20/1P	39				40	20/1P		4.0		RM 9 CEILING CRKT *
OFFICE, HALL REC. *			4.0	20/1P	41				42	20/1P			6.0	RM 4 REC. *
COFFEE *	6.0			20/1P	43				44	100/3P				MAIN BREAKER
SPARE				20/1P	45									
COFFEE *			6.0	20/1P	47									
TOTAL	48.0	48.0	57.0								76.5	74.0	92.9	TOTAL
TOTAL CONNECTED AMPS				A: 124.5			B: 122.0			C: 149.9				

NOTES:
PANELBOARD IS A WESTINGHOUSE
* INDICATES EXISTING LOAD
+ INDICATES NEW LOAD. EXISTING LOAD REMOVED DURING DEMOLITION.

EXISTING PANELBOARD PA SCHEDULE														
SEE POWER RISER DIAGRAM FOR RATINGS														
LOAD SERVED	LOAD (AMPS)			BKR TRIP	CKT NO.	PHASE			CKT NO.	BKR TRIP	LOAD (AMPS)			LOAD SERVED
	A	B	C			A	B	C			A	B	C	
STEAM HEATER *	4.0			20/1P	1				2	60/3P				SPARE +
STEAM HEATER *		4.0		20/1P	3									
STEAM HEATERS *			4.0	20/1P	5									
SPARE				20/1P	7				8	40/1P				SPARE
BATHROOMS *		3.0		20/1P	9				10	40/1P				SPARE
EF-2 *			4.0	20/3P	11				12	40/1P				SPARE
	4.0								14	40/1P				SPARE
		4.0							16	40/1P				SPARE
SPARE +				20/3P	17				18	20/1P		6.0		AFTER COOLER +
									20	20/3P				SPARE +
SPARE				20/1P	23									
MECH RM REC. *	1.5			20/1P	25				26	30/2P				SPARE
SPARE +				20/3P	27									
									30	30/1P		12.4		AIR DRYER +
									32	20/1P	4.0			RM 6 REC. *
TIME CLOCK *		2.0		20/1P	33				34	30/1P		2.0		SECURITY SYS. *
SPARE				20/1P	35				36	30/3P			17.0	HANGER DOOR *
AC #1 *	12.0			20/1P	37						17.0			
RM 6 REC. *		4.0		20/1P	39							17.0		
RM 4,HALL REC. *			4.0	20/1P	41				42	20/1P			12.0	ROLL UP DOOR *
TOTAL	21.5	17.0	12.0								21.0	19.0	47.4	TOTAL
TOTAL CONNECTED AMPS				A: 42.5		B: 36.0		C: 59.4						

EXISTING PANELBOARD P/B6 SCHEDULE															
SEE POWER RISER DIAGRAM FOR RATINGS															
LOAD SERVED	LOAD (AMPS)			BKR TRIP	CKT NO.	PHASE			CKT NO.	BKR TRIP	LOAD (AMPS)			LOAD SERVED	
	A	B	C			A	B	C			A	B	C		
CLASSRM 1,2 *	6.0			20/1P	1				2	20/1P	6.0			CLASS RM 8 REC. *	
CLASSRM 1,2 *		6.0		20/1P	3				4	20/1P		6.0		CLASSRM 10 REC. *	
CLASSRM 1,2 *			6.0	20/1P	5				6	20/1P			6.0	RM 102 REC. *	
CLASSRM 1,2 *	6.0			20/1P	7				8	20/1P	10.0			VENDING REC.++	
CLASSRM 1,2 *		6.0		20/1P	9				10	20/1P		10.0		VENDING REC.++	
VENDING REC.++			10.0	20/1P	11				12	20/1P			10.0	VENDING REC.++	
ROOF REC.++	6.0			20/1P	13				14	20/1P	1.5			RECEPTACLE++	
EF-12++		4.4		20/1P	15				16	20/1P		4.0		EWC ++	
HAND DRYER++			6.0	20/1P	17				18	20/1P			4.0	EWC ++	
HAND DRYER++	6.0			20/1P	19				20	20/1P	2.7			HWRP-1++	
RECEPTACLE		6.0		20/1P	21				22	20/1P		3.0		RECEPTACLE	
SPARE (OFF)				20/1P	23				24	20/1P				SPARE (OFF)	
SPARE (OFF)				20/1P	25				26	20/1P				SPARE (OFF)	
SPARE (OFF)				20/1P	27				28	20/1P				SPARE (OFF)	
SPARE (OFF)				20/1P	29				30	20/1P				SPARE (OFF)	
TOTAL	24.0	22.4	22.0									20.2	23.0	20.0	TOTAL
TOTAL CONNECTED AMPS A: 44.2 B: 45.4 C: 42.0															

NOTES:
PANELBOARD IS A SQUARE D "NQ" SERIES
* INDICATES EXISTING LOAD
+ INDICATES NEW LOAD. EXISTING LOAD REMOVED DURING DEMOLITION.
++ INDICATES EXISTING LOAD REMOVED DURING DEMOLITION. PROVIDE CIRCUIT BREAKER INDICATED. TURN OVER EXISTING CIRCUIT BREAKER REMOVED TO GOVERNMENT.

PANELBOARD M SCHEDULE														
SEE POWER RISER DIAGRAM FOR RATINGS														
LOAD SERVED	LOAD (AMPS)			BKR TRIP	CKT NO.	PHASE			CKT NO.	BKR TRIP	LOAD (AMPS)			LOAD SERVED
	A	B	C			A	B	C			A	B	C	
SPARE				20/1P	1				2	20/1P				SPARE
SPARE				20/1P	3				4	20/1P				SPARE
SPARE				20/1P	5				6	20/1P				SPARE
SPARE				20/1P	7				8	20/3P	10.8			WH-1
SPARE				20/1P	9							10.8		
SPARE				20/1P	11								10.8	
RTHP-14	19.2			25/3P	13				14	25/3P	19.2			RTHP-8
		19.2										19.2		
			19.2										19.2	
RTHP-15	19.2			25/3P	19				20	30/3P	21.6			RTHP-9
		19.2										21.6		
			19.2										21.6	
RTHP-16	19.2			25/3P	25				26	30/3P	21.6			RTHP-10
		19.2										21.6		
			19.2										21.6	
RTHP-17	27.2			35/3P	31				32	25/3P	19.2			RTHP-11
		27.2										19.2		
			27.2										19.2	
RTHP-18	27.2			35/3P	37				38	25/3P	19.2			RTHP-12
		27.2										19.2		
			27.2										19.2	
RTHP-6	19.2			25/3P	43				44	25/3P	19.2			RTHP-13
		19.2										19.2		
			19.2										19.2	
RTHP-7	19.2			25/3P	49				50	20/3P	1.1			EF-11
		19.2										1.1		
			19.2										1.1	
TOTAL	150.4	150.4	150.4								131.9	131.9	131.9	TOTAL
TOTAL CONNECTED AMPS A: 282.3 B: 282.3 C: 282.3														

EQUIPMENT CONNECTION SCHEDULE									
TAG	MCA	WATTS/HP	MOCP	VOLTS	Ø	CIRCUIT #	DISCONNECT	CONDUIT AND WIRE	NOTES
MAU-1									1
SUPPLY FAN	72.3	50 HP	125	480	3	HB-1	200A-3P, FU@ 125A, 4X	4 #1, 1 #6 GND - 1-1/2"C	1
FAN CONNECTION	42.3		50	480	3	MDP-2-20	60A-3P, FU@ 50A, 4X	3 #4, 1 #10 GND - 1"C	1
FAN CONNECTION	42.3		50	480	3	MDP-2-26	60A-3P, FU@ 50A, 4X	3 #4, 1 #10 GND - 1"C	1
RECEPTACLE	1.9		20	120	1	LC-22	MOTOR RATED SWITCH	2 #12, 1 #12 GND - 1"C	1
MAU-2									1
SUPPLY FAN	72.3	50 HP	125	480	3	HB-7	200A-3P, FU@ 125A, 4X	4 #1, 1 #6 GND - 1-1/12"C	1
FAN CONNECTION	42.3		50	480	3	MDP-2-37	60A-3P, FU@ 50A, 4X	3 #4, 1 #10 GND - 1"C	1
FAN CONNECTION	42.3		50	480	3	MDP-2-43	60A-3P, FU@ 50A, 4X	3 #4, 1 #10 GND - 1"C	1
RECEPTACLE	1.9		20	120	1	LC-22	MOTOR RATED SWITCH	2 #12, 1 #12 GND - 1"C	1
MAU-3									1
SUPPLY FAN	72.3	50 HP	125	480	3	HB-13	200A-3P, FU@ 125A, 4X	4 #1, 1 #6 GND - 1-1/12"C	1
FAN CONNECTION	42.3		50	480	3	MDP-2-38	60A-3P, FU@ 50A, 4X	3 #4, 1 #10 GND - 1"C	1
FAN CONNECTION	42.3		50	480	3	MDP-2-44	60A-3P, FU@ 50A, 4X	3 #4, 1 #10 GND - 1"C	1
RECEPTACLE	1.9		20	120	1	LC-22	MOTOR RATED SWITCH	2 #12, 1 #12 GND - 1"C	1
D-1	10.0		20	120	1	LA-20	MOTOR RATED SWITCH	2 #12, 1 #12 GND - 1"C	1
D-2	10.0		20	120	1	LA-22	MOTOR RATED SWITCH	2 #12, 1 #12 GND - 1"C	1
D-3	10.0		20	120	1	LA-24	MOTOR RATED SWITCH	2 #12, 1 #12 GND - 1"C	1
RTHP-1	19.0		20	480	3	MDP-2-7	30A-3P, FU@20A, 4X	3 #12, 1 #12 GND - 3/4"C	1
RTHP-2	19.0		20	480	3	MDP-2-13	30A-3P, FU@20A, 4X	3 #12, 1 #12 GND - 3/4"C	1
RTHP-3	24.0		25	480	3	MDP-2-19	30A-3P, FU@25A, 4X	3 #10, 1 #10 GND - 3/4"C	1
RTHP-4	35.0		35	480	3	MDP-2-31	60A-3P, FU@35A, 4X	3 #8, 1 #10 GND - 3/4"C	1
RTHP-5	35.0		35	480	3	MDP-2-25	60A-3P, FU@35A, 4X	3 #8, 1 #10 GND - 3/4"C	1
RTHP-6	25.0		25	480	3	M-43	30A-3P, FU@25A, 4X	3 #10, 1 #10 GND - 3/4"C	1
RTHP-7	25.0		25	480	3	M-49	30A-3P, FU@25A, 4X	3 #10, 1 #10 GND - 3/4"C	1
RTHP-8	19.0		25	480	3	M-14	30A-3P, FU@25A, 4X	3 #10, 1 #10 GND - 3/4"C	1
RTHP-9	26.0		30	480	3	M-20	30A-3P, FU@30A, 4X	3 #8, 1 #10 GND - 3/4"C	1
RTHP-10	26.0		30	480	3	M-26	30A-3P, FU@30A, 4X	3 #8, 1 #10 GND - 3/4"C	1
RTHP-11	25.0		25	480	3	M-32	30A-3P, FU@25A, 4X	3 #10, 1 #10 GND - 3/4"C	1
RTHP-12	25.0		25	480	3	M-38	30A-3P, FU@25A, 4X	3 #10, 1 #10 GND - 3/4"C	1
RTHP-13	25.0		25	480	3	M-44	30A-3P, FU@25A, 4X	3 #10, 1 #10 GND - 3/4"C	1
RTHP-14	25.0		25	480	3	M-13	30A-3P, FU@25A, 4X	3 #10, 1 #10 GND - 3/4"C	1
RTHP-15	25.0		25	480	3	M-19	30A-3P, FU@25A, 4X	3 #10, 1 #10 GND - 3/4"C	1
RTHP-16	25.0		25	480	3	M-25	30A-3P, FU@25A, 4X	3 #10, 1 #10 GND - 3/4"C	1
RTHP-17	34.0		35	480	3	M-31	60A-3P, FU@35A, 4X	3 #8, 1 #10 GND - 3/4"C	1
RTHP-18	34.0		35	480	3	M-37	60A-3P, FU@35A, 4X	3 #8, 1 #10 GND - 3/4"C	1
UH-1	3.8	1/4 HP	20	120	1	LA-10	MOTOR RATED SWITCH	2 #12, 1 #12 GND - 3/4"C	1
UH-2	3.8	1/4 HP	20	120	1	LA-10	MOTOR RATED SWITCH	2 #12, 1 #12 GND - 3/4"C	1
UH-3	3.8	1/4 HP	20	120	1	LA-16	MOTOR RATED SWITCH	2 #12, 1 #12 GND - 3/4"C	1
UH-4	2.5	1/15 HP	20	120	1	LA-8	MOTOR RATED SWITCH	2 #12, 1 #12 GND - 3/4"C	1
EF-1	225.0	150	350	480	3	MSB	400A-3P, FU@350A, 4X	3-500KCMIL, 1 #3 GND - 4"C	1,3
EF-2	225	150	350	480	3	MSB	400A-3P, FU@350A, 4X	3-500KCMIL, 1 #3 GND - 4"C	1,3
EF-3	225	150	350	480	3	MSB	400A-3P, FU@350A, 4X	3-500KCMIL, 1 #3 GND - 4"C	1,3
EF-4	3.75	1/10 HP	20	120	1	LA-9	MOTOR RATED SWITCH	2 #12, 1 #12 GND - 3/4"C	1
EF-5	9.375	2 HP	20	208	3	LA-32	30A-3P, NF	3 #12, 1 #12 GND - 3/4"C	1
EF-6	9.375	2 HP	20	208	3	LA-38	30A-3P, NF	3 #12, 1 #12 GND - 3/4"C	1
EF-7A	1.375	1/2 HP	15	120	1	HA-2	MOTOR RATED SWITCH	2 #12, 1 #12 GND - 3/4"C	1
EF-7B	1.375	1/2 HP	15	120	1	HA-4	MOTOR RATED SWITCH	2 #12, 1 #12 GND - 3/4"C	1
EF-8	0.3	30W	20	120	1	LA-8	MOTOR RATED SWITCH	2 #12, 1 #12 GND - 3/4"C	1
EF-9	3.125	1/15 HP	20	120	1	LA-33	MOTOR RATED SWITCH	2 #12, 1 #12 GND - 3/4"C	1
EF-10	3.75	1/10 HP	20	120	1	LA-31	MOTOR RATED SWITCH	2 #12, 1 #12 GND - 3/4"C	1
EF-11	1.1	1/2 HP	20	480	3	M-50	30A-3P, NF	3 #12, 1 #12 GND - 3/4"C	1
EF-12	5.5	1/6 HP	20	120	1	PB6-15	MOTOR RATED SWITCH	2 #12, 1 #12 GND - 3/4"C	1
EF-13	4.375	420W	20	120	1	LA-37	MOTOR RATED SWITCH	2 #12, 1 #12 GND - 3/4"C	1
ASH-1	4.25	2 HP	20	480	3	HC-26	30A-3P, NF	4 #12, 1 #12 GND - 3/4"C	1
DAC-1	2.6		15	208	1	LC-37	30A-2P, NF	2 #12, 1 #12 GND - 3/4"C	1
ACCU-1	18		30	208	1	LC-14	30A-2P, FU@30A, 4X	2 #12, 1 #12 GND - 3/4"C	1
WH-1	13.5	9KW	20	480	3	M-8	30A-3P, NF	3 #12, 1 #12 GND - 3/4"C	1
WH-2	18	12KW	20	480	3	HA-26	30A-3P, NF	3 #12, 1 #12 GND - 3/4"C	1
HWRP-1	3.4	1/12HP	20	120	1	PB6-20	MOTOR RATED SWITCH	2 #12, 1 #12 GND - 3/4"C	1,2
HWRP-2	5.5	1/6HP	20	120	1	LA-18	MOTOR RATED SWITCH	2 #12, 1 #12 GND - 3/4"C	1,2
BBR-1	15.625	1.5KW		120	1	LA-30	MOTOR RATED SWITCH	2 #10, 1 #10 GND - 3/4"C	1
NOTES:									
1. COORDINATE ALL CONNECTIONS TO EQUIPMENT WITH PLUMBING AND MECHANICAL SUB-CONTRACTOR AND APPROVED SHOP DRAWINGS.									
2. PROVIDE ASTRONOMICAL TIME CLOCK. COORDINATE WITH PLUMBING DRAWINGS FOR CONTROLS.									
3. PROVIDE AUXILIARY CONTACT AND CONDUCTORS TO INDICATE TO VFD WHEN DISCONNECT IS IN THE OPEN POSITION.									

FIRE PROTECTION GENERAL NOTES

FIRE PROTECTION SYSTEMS SHALL COMPLY WITH:
-NFPA 13 (2022)
-UNIFIED FACILITIES CRITERIA 3-600-01.(WITH CHANGE 6, 06 MAY 2021)

ALL VALVES ON THE FIRE PROTECTION SYSTEM SHALL BE ELECTRICALLY SUPERVISED. PROVIDE TAMPER SWITCHES. REFER TO FIRE ALARM DRAWINGS FOR MORE INFORMATION.

PROVIDE HEAD GUARDS ON SPRINKLER HEADS IN ELECTRICAL, MECHANICAL, ELEVATOR, TELEPHONE, AND STORAGE ROOMS.

FIRE SPRINKLER PIPING SHALL NOT BE LOCATED ABOVE ELECTRICAL PANELBOARDS PER ARTICLE 384-4 OF NFPA 70.

PROVIDE ADDITIONAL SPRINKLERS, PIPING, FITTINGS, APPURTENANCES, AND ALL OTHER WORK NECESSARY TO ACCOMMODATE ANY INTERIOR DESIGN LAYOUTS OR CHANGES TO SUCH LAYOUTS WHICH ARE OR MAY BE INCLUDED IN THE WORK. THESE SPRINKLERS AND ASSOCIATED WORK SHALL BE PROVIDED WHERE REQUIRED TO RESOLVE ANY CONFLICTS OR OTHER LAYOUT CHANGES NEEDED TO ACCOMMODATE ALL MISCELLANEOUS ITEMS (I.E. CEILING OFFSETS, SOFFITS, COVES, CODE INSPECTION/INTERPRETATIONS, STRUCTURAL SYSTEM CONFLICTS, ETC.) RELATED TO INTERIOR DESIGN CONFIGURATION CHANGES.

BUTTERFLY VALVES SHALL BE ALLOWED DOWNSTREAM OF THE DISCHARGE SIDE OF THE BACKFLOW PREVENTER.

THE CONTRACTOR SHALL REMOVE & REINSTALL ALL CEILING TILES & CUT CEILING TILES TO ACCOMMODATE SPRINKLER HEADS.

LEGEND & ABBREVIATIONS

	FIRE SPRINKLER BRANCH PIPE	AC	ABOVE CEILING
	FIRE SPRINKLER MAIN LINE	AFF	ABOVE FINISHED FLOOR
	LIMIT OF DEMOLITION WORK	AFG	ABOVE FINISHED GRADE
	NEW POINT OF CONNECTION	ETR	EXISTING TO REMAIN
	DEMOLITION NOTE DESIGNATION	EXIST	EXISTING
	NEW WORK NOTE DESIGNATION	GPM	GALLONS PER MINUTE
	DETAIL/RISER/ENLARGED PLAN	NIC	NOT IN CONTRACT
	SHEET WHERE SHOWN	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
	SHEET WHERE CUT	W/	WITH

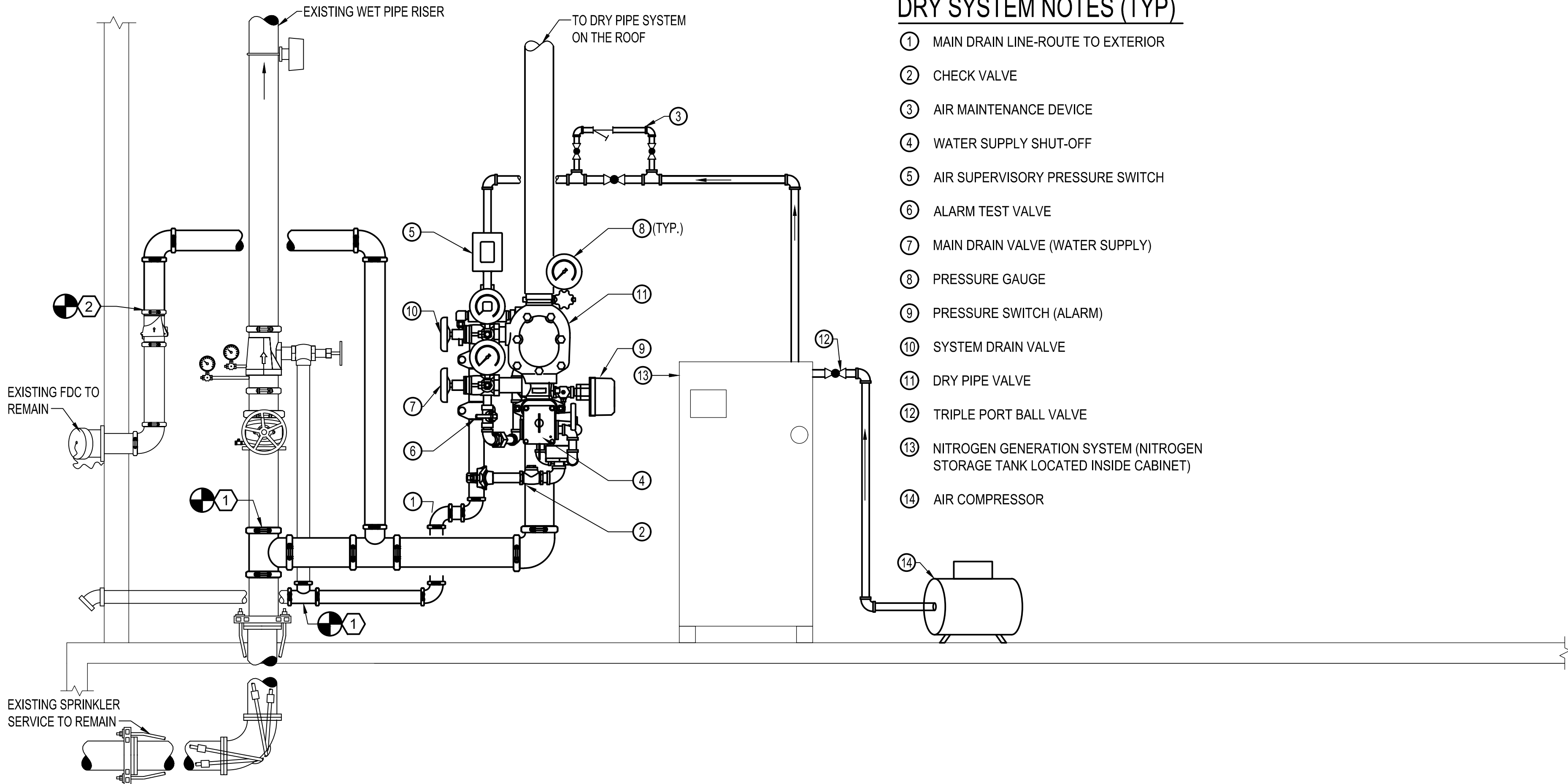
UFC HAZARD REQUIREMENTS*:

HAZARD	HAZARD DESCRIPTION	DENSITY GPM/SQ.FT.	DEMAND AREA*(SQ.FT)	HOSE ALLOWANCE	MIN. K-FACTOR
LIGHT	LIGHTLY LOADED NON-STORAGE AREAS WITH ORDINARY COMBUSTIBLES	0.1	1,500	250	5.6
ORDINARY	MODERATELY LOADED NON-STORAGE AREAS WITH ORDINARY COMBUSTIBLES	0.2	2,500	250	8.0

* DESIGN AREA REDUCTIONS ALLOW BY NFPA 13 WILL NOT BE PERMITTED

DRY SYSTEM NOTES (TYP)

- 1 MAIN DRAIN LINE-ROUTE TO EXTERIOR
- 2 CHECK VALVE
- 3 AIR MAINTENANCE DEVICE
- 4 WATER SUPPLY SHUT-OFF
- 5 AIR SUPERVISORY PRESSURE SWITCH
- 6 ALARM TEST VALVE
- 7 MAIN DRAIN VALVE (WATER SUPPLY)
- 8 PRESSURE GAUGE
- 9 PRESSURE SWITCH (ALARM)
- 10 SYSTEM DRAIN VALVE
- 11 DRY PIPE VALVE
- 12 TRIPLE PORT BALL VALVE
- 13 NITROGEN GENERATION SYSTEM (NITROGEN STORAGE TANK LOCATED INSIDE CABINET)
- 14 AIR COMPRESSOR



DRY PIPE SPRINKLER RISER DETAIL

NO SCALE

NEW WORK NOTES:

- 1 PROVIDE AND INSTALL DRY PIPE VALVE WITH NITROGEN GENERATION SYSTEM TO SERVE AREAS SUBJECT TO FREEZING. CONNECT NEW PIPING ASSOCIATED WITH NEW DRY PIPE SYSTEM AT APPROXIMATE POINT INDICATED. REFER TO FLOOR PLANS FOR FURTHER INFORMATION.
- 2 RE-ROUTE EXISTING PIPING FROM FIRE DEPARTMENT CONNECTION AS INDICATED TO SERVE BOTH WET PIPE AND DRY PIPE SPRINKLER SYSTEMS.

SPRINKLER NOTE:

THIS BUILDING IS CURRENTLY PROTECTED BY A FULLY AUTOMATIC WET PIPE SPRINKLER SYSTEM. THIS CONTRACTOR SHALL MODIFY THE EXISTING SPRINKLER SYSTEM INSTALLATION AS REQUIRED TO SUIT NEW FLOOR PLANS AND REFLECTED CEILING PLANS WITHIN THE LIMITS OF CONSTRUCTION. MODIFICATIONS INCLUDE, BUT ARE NOT LIMITED TO; REPLACING SPRINKLER SYSTEM PROTECTION OF THE NEW AIR CURTAIN, PROVIDING DRY PIPE SPRINKLER PROTECTION FOR THE HAZARDOUS EXHAUST SYSTEM, AND MODIFYING SPRINKLER LOCATIONS IN RENOVATED AREAS. SPRINKLER SYSTEM DESIGN, MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13 AND UFC 3-600-01. SPACING AND LOCATION OF SPRINKLERS SHALL NOT EXCEED THAT PERMITTED FOR LIGHT AND ORDINARY HAZARD OCCUPANCY.

SPRINKLER SCHEDULE:
USE SPRINKLER TYPES BELOW FOR THE FOLLOWING APPLICATIONS:

- ROOMS WITHOUT CEILINGS: UPRIGHT SPRINKLERS
- ROOMS WITH SUSPENDED CEILINGS: RECESSED SPRINKLERS
- WALL MOUNTING: SIDEWALL SPRINKLERS

HAZARDOUS EQUIPMENT SPRINKLER NOTE

PROVIDE DRY PIPE RISER AND DRY PIPE SPRINKLER SYSTEM TO PROVIDE COMPLETE COVERAGE OF HAZARDOUS EXHAUST SYSTEM AND HAZARDOUS DUST COLLECTION SYSTEM ON THE ROOF. PROVIDE DRY PIPE SPRINKLER PIPING TO EACH DUST COLLECTOR TO CONNECT TO SPRINKLERS PROVIDED WITHIN DUST COLLECTORS. COORDINATE FINAL CONNECTION OF SPRINKLERS WITHIN DUST COLLECTORS WITH EQUIPMENT VENDOR. REFER TO MECHANICAL DRAWINGS, SHEET M-104, FOR LOCATIONS AND LAYOUT OF HAZARDOUS MECHANICAL SYSTEMS.

TEMPORARY SPRINKLER PROTECTION NOTE:

PROVIDE TEMPORARY SPRINKLER PROTECTION AT ROOF DECK WHILE CEILINGS ARE REMOVED IN OCCUPIED SPACES.

BUILDING 1126 FIRE PUMP TEST REPORT

- 3,000 GPM ELECTRIC FIRE PUMP
- DATE OF TEST: 10/29/2018
- TIME OF TEST: 1:30 P.M.
- TEST CONDUCTED BY: VSC FIRE AND SECURITY
- TEST WITNESSED BY: PACE COLLABORATIVE
- CHURN PRESSURE: 155 PSI
- DISCHARGE PRESSURE AT RATED FLOW (3,000 GPM): 105 PSI
- DISCHARGE PRESSURE AT WIDE OPEN FLOW (3,832 GPM): 50 PSI

FIRE PUMP TEST NOTE:

CONTRACTOR SHALL CONDUCT FIRE PUMP FLOW TEST PRIOR TO SYSTEM DESIGN TO VERIFY AVAILABLE PRESSURE AND FLOW. SYSTEM DESIGN SHALL BE BASED ON HYDRAULIC CALCULATIONS WITH UP TO DATE FLOW INFORMATION ACQUIRED FROM FLOW TEST.



APPROVED:

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO

DES: DBB | DRW: NRM | CHK: MHF

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE
BUILDING 4034, FRC-E
SPRINKLER GENERAL NOTES, LEGEND, AND ABBREVIATIONS

SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO. 7375939
NAVFAC DRAWING NO. 12816319
SHEET 108 OF 113
FX001

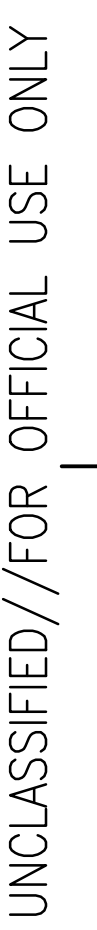


DRAWING REVISION: 10 MAY 2014



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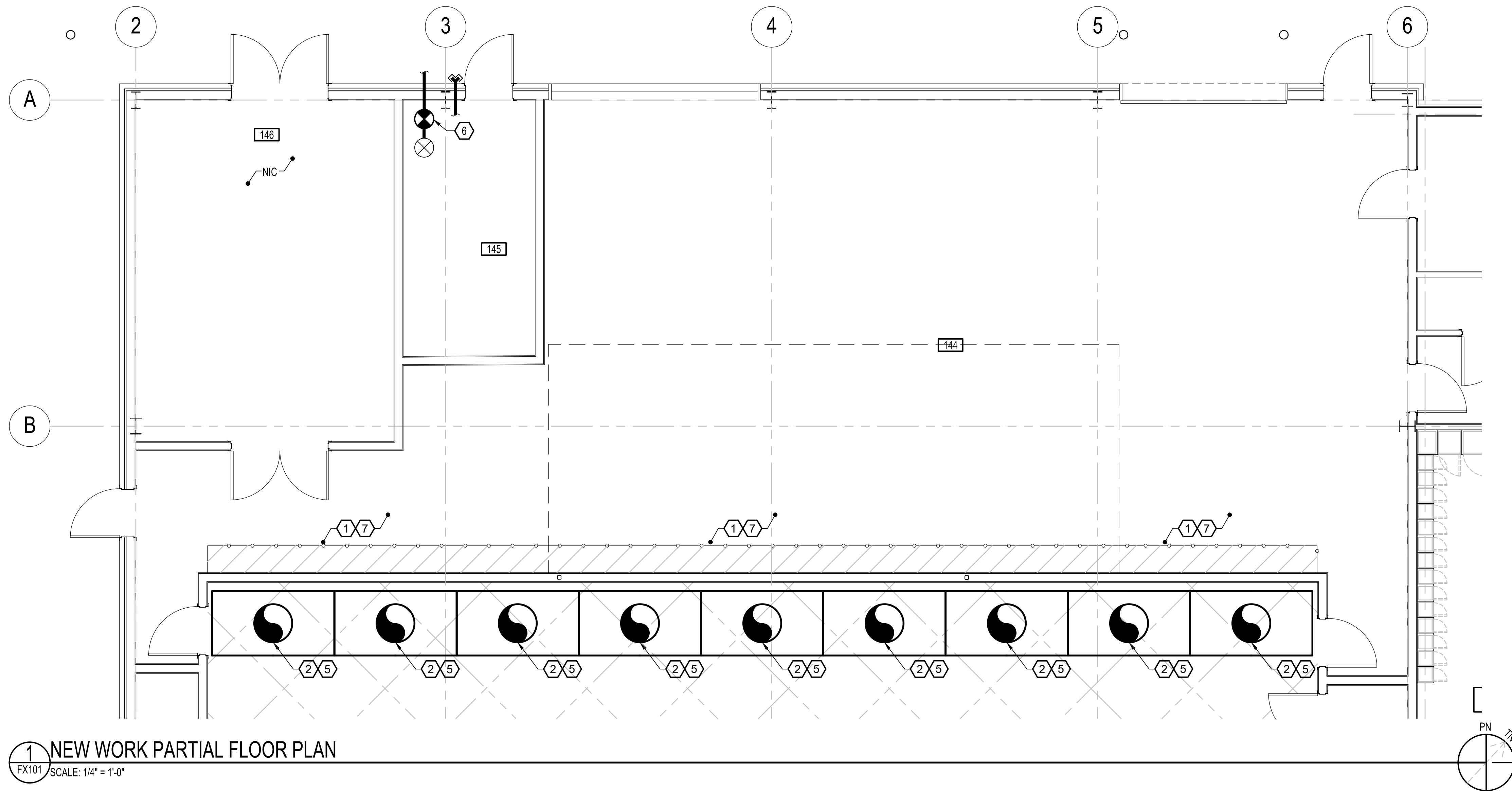


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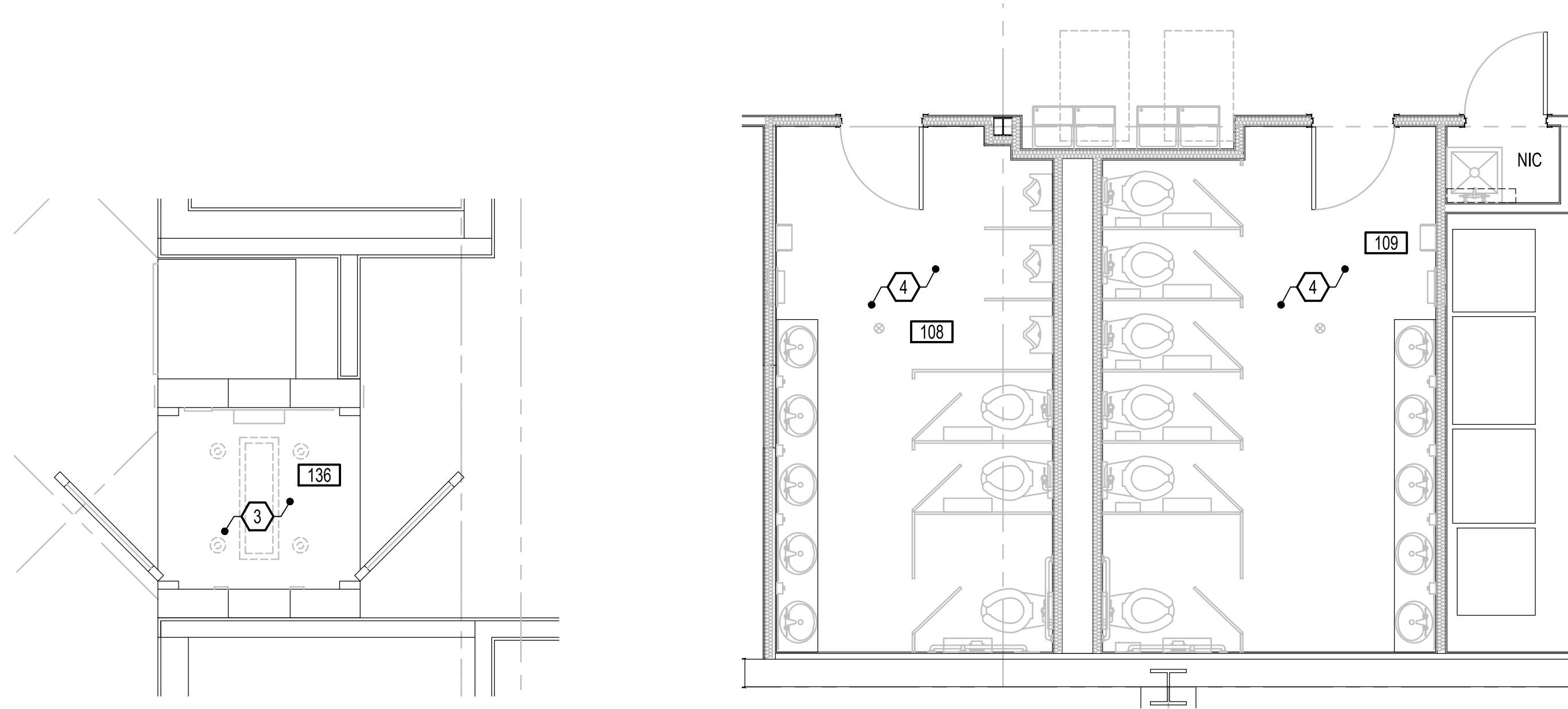
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1 NEW WORK PARTIAL FLOOR PLAN

FX101 SCALE: 1/4" = 1'-0"



2 NEW WORK PARTIAL FLOOR PLAN

FX101 SCALE: 1/2" = 1'-0"

3 NEW WORK PARTIAL FLOOR PLAN

FX101 SCALE: 1/2" = 1'-0"

4 NEW WORK PARTIAL FLOOR PLAN

FX101 SCALE: 1/2" = 1'-0"



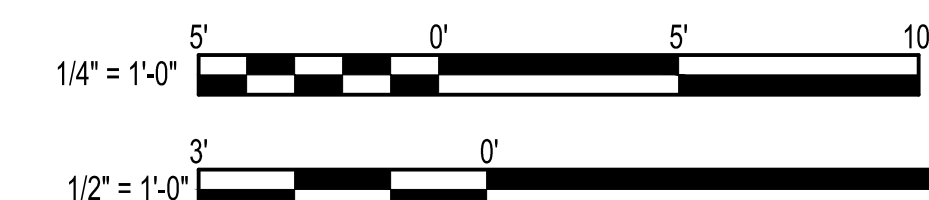
NEW WORK NOTES

- 1 MODIFY SPRINKLER SYSTEM BELOW EQUIPMENT PLATFORM IN APPROXIMATE LOCATION INDICATED AS REQUIRED TO ACCOMMODATE NEW WORK. THIS SPACE SHALL BE DESIGNATED AS ORDINARY HAZARD, REFER TO FX001 FOR DESIGN REQUIREMENTS FOR ORDINARY HAZARD SPACES.
- 2 PROVIDE SPRINKLER PROTECTION WITHIN 28"Ø HAZARDOUS EXHAUST DUCTWORK UP TO ROOF.
- 3 PROVIDE SPRINKLER PROTECTION FOR NEW AIR CURTAIN EQUIPMENT SPACE. THIS SPACE SHALL BE DESIGNATED AS ORDINARY HAZARD, REFER TO FX001 FOR DESIGN REQUIREMENTS FOR ORDINARY HAZARD SPACES.
- 4 MODIFY SPRINKLER SYSTEM TO ACCOMMODATE NEW CONSTRUCTION. PROVIDE SWING JOINT FITTINGS AND ARM OVER TO NEW SPRINKLERS IN RENOVATED SPACES. THIS SPACE SHALL BE DESIGNATED AS LIGHT HAZARD, REFER TO FX001 FOR DESIGN REQUIREMENTS FOR LIGHT HAZARD SPACES.
- 5 PROVIDE AND EXTEND DRY PIPE SPRINKLER SYSTEM THRU ROOF TO PROVIDE COMPLETE COVERAGE OF HAZARDOUS EXHAUST SYSTEM, DUST COLLECTOR EXHAUST SYSTEM, AND ASSOCIATED DUST COLLECTORS. COORDINATE FINAL CONNECTION OF SPRINKLERS IN DUST COLLECTORS WITH DUST COLLECTOR EQUIPMENT PROVIDER. REFER TO HAZARDOUS EQUIPMENT SPRINKLER NOTE, SHEET FX001, FOR FURTHER INFORMATION.
- 6 PROVIDE AND INSTALL NEW DRY PIPE SYSTEM AND NITROGEN GENERATION SYSTEM TO SERVE ALL AREAS SUBJECT TO FREEZING. CONNECT TO EXISTING SPRINKLER RISER IN APPROXIMATE LOCATION INDICATED. REFER TO DRY PIPE SPRINKLER RISER DETAIL AND HAZARDOUS EQUIPMENT SPRINKLER NOTE, SHEET FX001, FOR FURTHER INFORMATION.
- 7 EXTEND SPRINKLER SYSTEM TO PMB EQUIPMENT (CYCLONE, SILOS, BUCKET ELEVATOR, ETC.) AS REQUIRED. REFER TO PMB EQUIPMENT SPECIFICATIONS AND COORDINATE WITH EQUIPMENT PROVIDER FOR FIRE SPRINKLER CONNECTIONS IN EQUIPMENT.

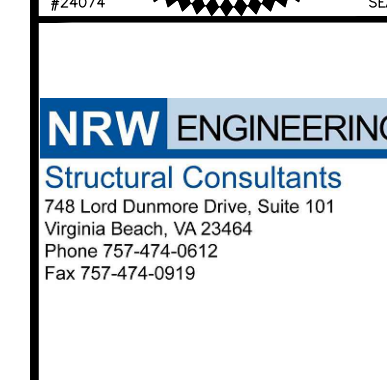
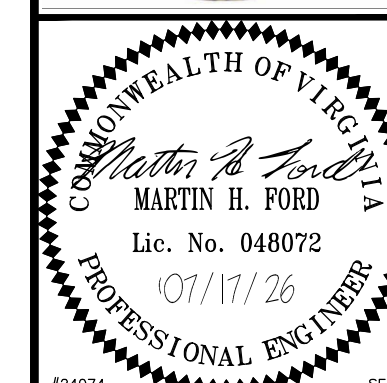
ROOM SCHEDULE

120	VESTIBULE
121	OPEN OFFICE
122	CORRIDOR
123	VESTIBULE
124	SUPERVISOR
125	ADMIN
126	OPEN OFFICE
127	OPEN OFFICE
128	STORAGE
129	STORAGE
130	STORAGE
131	OPEN OFFICE
132	LOCKER ROOM
133	LOCKER ROOM
134	TOILET
135	MENS HEAD
136	BLAST DOWN
137	GEAR
138	TOILET
139	LOCKER ROOM
140	LOCKER ROOM
141	WOMENS HEAD
142	BREAK ROOM
143	COMM
144	BLAST EQUIPMENT
145	SPRINKLER
146	ELECTRICAL
147	PLASTIC MEDIA BLASTING FACILITY
148	STEAM ROOM
149	VESTIBULE
150	COVERED SPACE

GRAPHIC SCALE:



APPROVED	DATE
SYN	DESCRIPTION



APPROVED	A/E INFO
FOR COMMANDER NAVFAC	
ACTIVITY	
SATISFACTORY TO	
BES DBB	DRW NRM CHK MHF

U.S. MARINE CORPS AIR STATION	CHERRY POINT, NORTH CAROLINA
REPAIR AND UPGRADE	
BUILDING 4034, FRC-E	
SPRINKLER NEW WORK ENLARGED PLANS	

SCALE: AS NOTED	
PROJECT NO.:	XK11237
MAXIMO WORK ORDER NO.	7375939
NAVFAC DRAWING NO.	12816322
SHEET	111 OF 113

FX401	
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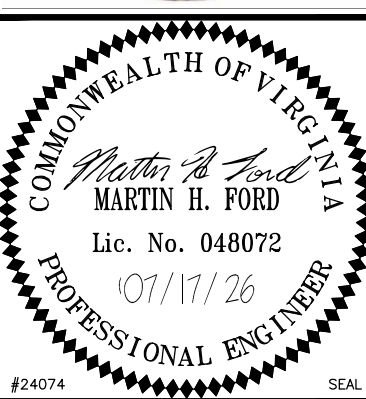
111	OF	113
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FX401

DRAWING REVISION: 10 MAY 2014

NOTES THIS SHEET

- 1 COORDINATE EXACT LOCATION OF DUCT MOUNTED SMOKE DETECTORS ON ROOF WITH MECHANICAL PLANS PRIOR TO INSTALLATION.
- 2 REMOTE TEST/RESET SWITCH FOR RETURN SIDE DUCT SMOKE DETECTORS ON ROOF.
- 3 REMOTE TEST/RESET SWITCH FOR SUPPLY SIDE DUCT SMOKE DETECTORS ON ROOF. MOUNT 4" BELOW FINISHED CEILING.
- 4 COORDINATE MOUNTING OF CARBON MONOXIDE DETECTOR WITH EQUIPMENT. CONNECT TO NEAREST SLC CIRCUIT.
- 5 PROVIDE ADDRESSABLE MONITOR MODULE FOR NITROGEN GENERATOR MONITORING COMMON ALARM. COORDINATE CONNECTION TO GENERATOR WITH EQUIPMENT PROVIDER PRIOR TO INSTALLATION.
- 6 PROVIDE ADDRESSABLE MONITOR MODULES FOR THE HIGH AND LOW AIR PRESSURE FOR PRESSURE SWITCH. COORDINATE INSTALLATION WITH SPRINKLER CONTRACTOR PRIOR TO INSTALLATION.



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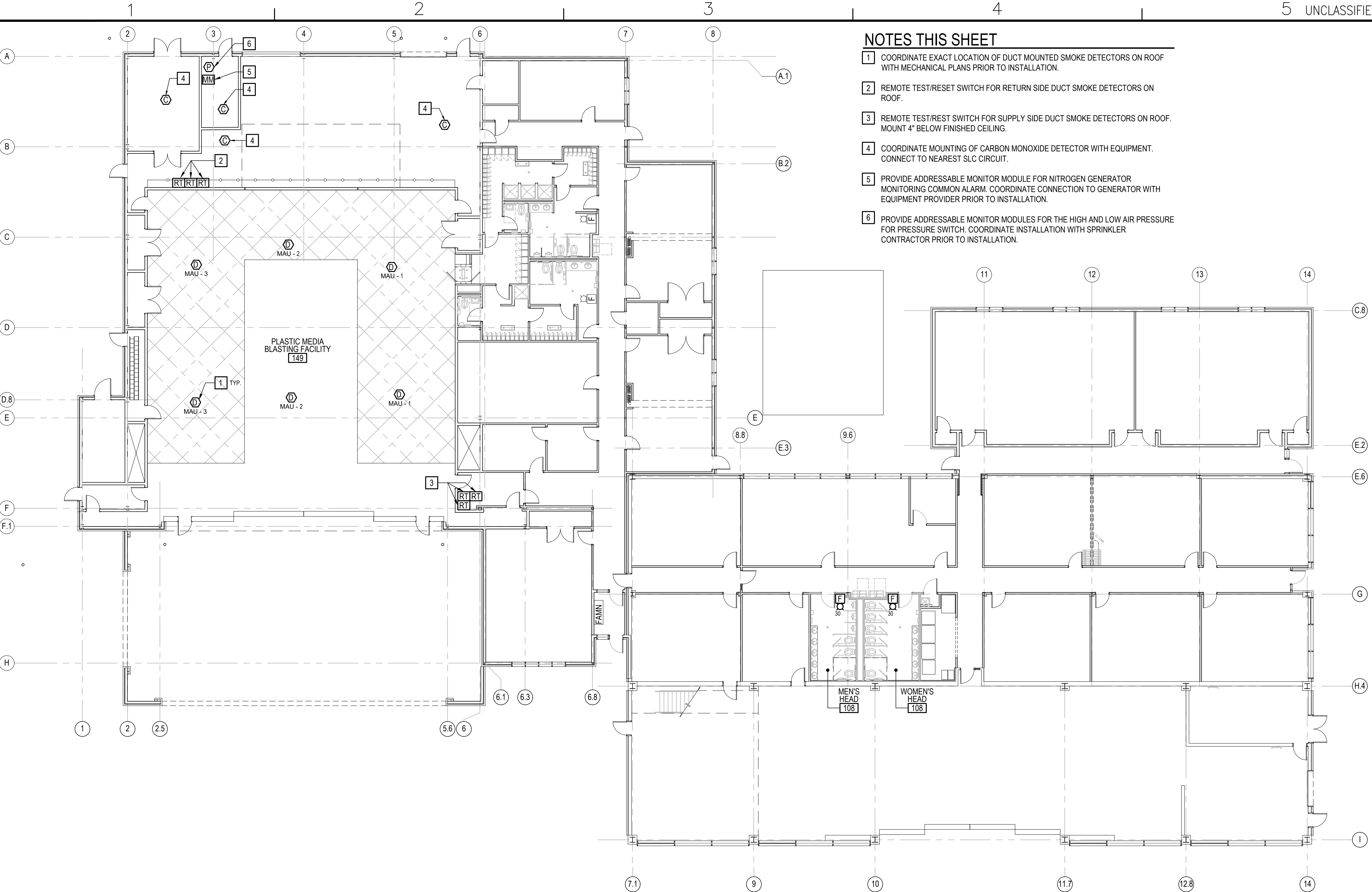
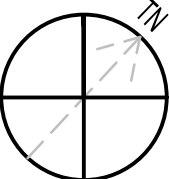
APPROVED _____
FOR COMMANDER NAVFAC _____
ACTIVITY _____
SATISFACTORY TO _____
DES: CRW | DRW: CAR | CHK: CRW

U.S. MARINE CORPS AIR STATION
CHERRY POINT, NORTH CAROLINA
**REPAIR AND UPGRADE
BUILDING 4034, FRC-E**
FIRE ALARM NEW WORK FLOOR PLAN

SCALE: AS NOTED
PROJECT NO.: XK11237
MAXIMO WORK ORDER NO. 7375939
NAVFAC DRAWING NO. 12816324
SHEET 113 OF 113
FA101

DRAWN/REVISED: 10 MAY 2014

GRAPHIC SCALE:



A1 FIRE ALARM NEW WORK FLOOR PLAN
FA101 SCALE: 3/32" = 1'-0"