

- GENERAL NOTES**
- REFERENCE SHEET M-001 FOR LEGEND, SYMBOLS, ABBREVIATIONS AND FURTHER GENERAL NOTES.
 - CUT, PATCH, PAINT AND OTHERWISE FINISH SURFACES TO ACCOMMODATE THE INSTALLATION OF NEW ITEMS OR WHERE ITEMS ARE REMOVED TO MATCH ADJACENT SURFACES.
- KEYED NOTES - DEMOLITION:**
- (A) THE 4-PIPE FAN COIL UNIT SHALL REMAIN. REMOVE THE CHILLED WATER AND HEATING WATER CONTROL VALVES AND ACTUATORS. DISCONNECT AND REMOVE THE UNITARY CONTROLLER AND WALL MOUNTED SPACE TEMPERATURE SENSOR. THE EXISTING WALL MOUNTED ON/OFF, FAN SPEED SWITCH SHALL REMAIN.
 - (B) REMOVE THE CEILING MOUNTED EXHAUST FAN.
 - (C) REMOVE THE RETURN AIR DEVICE (TYP).
 - (D) REMOVE THE REFRIGERANT PIPING AND APPURTENANCES FROM THE CHILLER TO THE CONDENSING UNIT ON THE ROOF.
- KEYED NOTES - NEW CONSTRUCTION:**
- (1) THE 4-PIPE FAN COIL UNIT SHALL REMAIN. FURNISH AND INSTALL NEW CHILLED WATER AND HEATING WATER CONTROL VALVES AND ACTUATORS. FURNISH AND INSTALL A NEW SPACE TEMPERATURE SENSOR IN THE LOCATION WHERE THE EXISTING SENSOR WAS REMOVED.
 - (2) FURNISH AND INSTALL A NEW CEILING MOUNTED EXHAUST FAN. TRANSITION AND CONNECT TO THE EXISTING EXHAUST DUCT. BALANCE THE EXHAUST FAN AS SCHEDULED.
 - (3) FURNISH AND INSTALL A NEW RETURN AIR DEVICE (TYP).
 - (4) FURNISH AND INSTALL NEW REFRIGERANT PIPING AND APPURTENANCES FROM THE NEW CHILLER IN THE MECHANICAL ROOM TO THE CONDENSING UNIT ON THE ROOF.

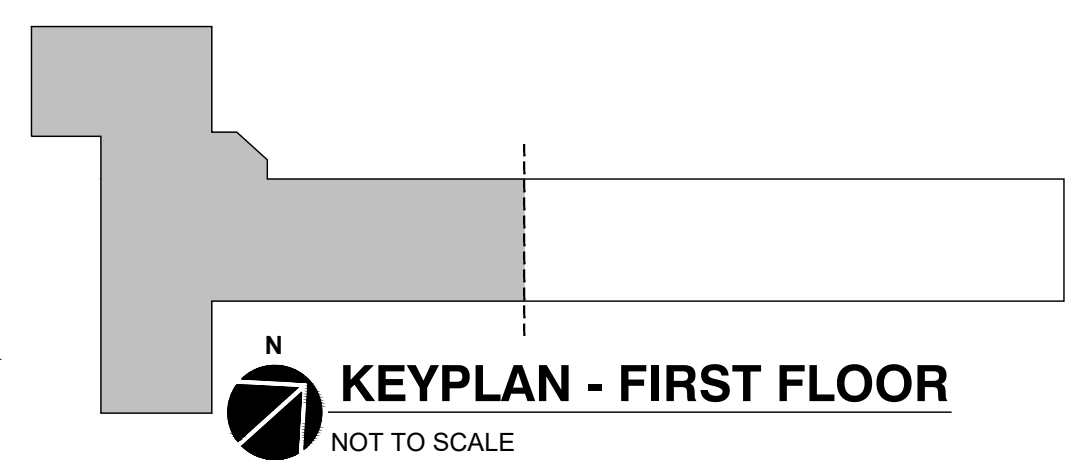
THE CONTRACTOR SHALL AUDIT THE EXISTING FAN COILS UNITS. THE CONTRACTOR SHALL REPLACE 8 TO 9 OF THE MOST DEFICIENT UNITS. THE UNITS REPLACED SHALL BE NOTED ON THE AS-BUILT DRAWINGS.


INTERIM REVIEW

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PARTIAL FIRST FLOOR PLAN - HVAC
 1/8" = 1'-0"
 0 4' 8' 16'
 1/8" = 1'-0"






US Army Corps of Engineers

DATE	DESCRIPTION

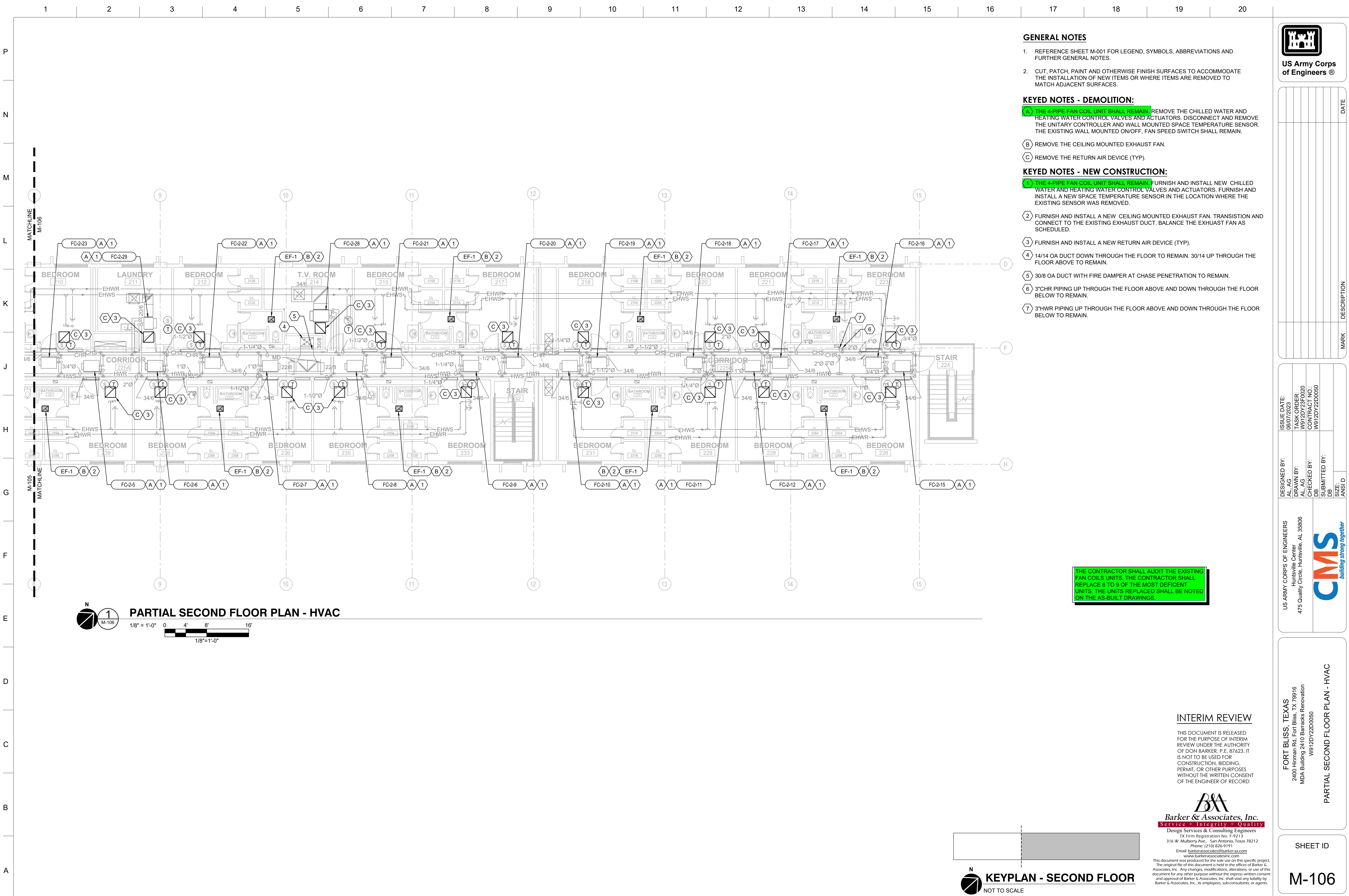
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PARTIAL FIRST FLOOR PLAN - HVAC

SHEET ID
M-103



- GENERAL NOTES**
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- (A) THE 4-PIPE FAN COIL UNIT SHALL REMAIN. REMOVE THE CHILLED WATER AND HEATING WATER CONTROL VALVES AND ACTUATORS. DISCONNECT AND REMOVE THE UNITARY CONTROLLER AND WALL MOUNTED SPACE TEMPERATURE SENSOR. THE EXISTING WALL MOUNTED ON/OFF, FAN SPEED SWITCH SHALL REMAIN.
 - (B) REMOVE THE CEILING MOUNTED EXHAUST FAN.
 - (C) REMOVE THE RETURN AIR DEVICE (TYP).

- KEYED NOTES - NEW CONSTRUCTION:**
- (1) THE 4-PIPE FAN COIL UNIT SHALL REMAIN. FURNISH AND INSTALL NEW CHILLED WATER AND HEATING WATER CONTROL VALVES AND ACTUATORS. FURNISH AND INSTALL A NEW SPACE TEMPERATURE SENSOR IN THE LOCATION WHERE THE EXISTING SENSOR WAS REMOVED.
 - (2) FURNISH AND INSTALL A NEW CEILING MOUNTED EXHAUST FAN. TRANSITION AND CONNECT TO THE EXISTING EXHAUST DUCT. BALANCE THE EXHAUST FAN AS SCHEDULED.
 - (3) FURNISH AND INSTALL A NEW RETURN AIR DEVICE (TYP).
 - (4) 14/14 OA DUCT DOWN THROUGH THE FLOOR TO REMAIN. 30/14 UP THROUGH THE FLOOR ABOVE TO REMAIN.
 - (5) 30/8 OA DUCT WITH FIRE DAMPER AT CHASE PENETRATION TO REMAIN.
 - (6) 3"CHR PIPING UP THROUGH THE FLOOR ABOVE AND DOWN THROUGH THE FLOOR BELOW TO REMAIN.
 - (7) 3"HWR PIPING UP THROUGH THE FLOOR ABOVE AND DOWN THROUGH THE FLOOR BELOW TO REMAIN.

THE CONTRACTOR SHALL AUDIT THE EXISTING FAN COILS UNITS. THE CONTRACTOR SHALL REPLACE 8 TO 9 OF THE MOST DEFICIENT UNITS. THE UNITS REPLACED SHALL BE NOTED ON THE AS-BUILT DRAWINGS.

PARTIAL SECOND FLOOR PLAN - HVAC
 1/8" = 1'-0"
 0 4' 8' 16'
 1/8" = 1'-0"

KEYPLAN - SECOND FLOOR
 NOT TO SCALE

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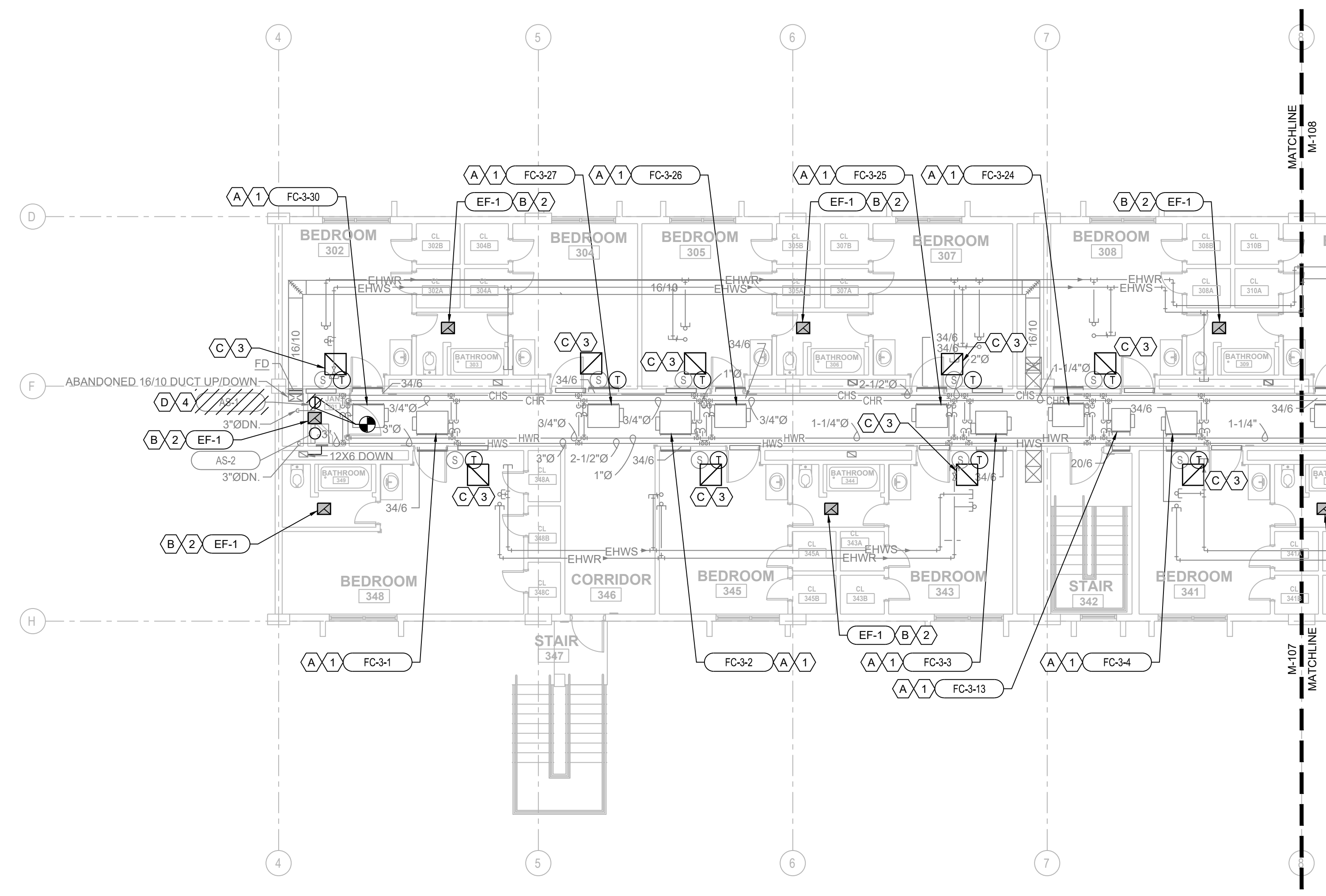
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 475 Quality Circle, Huntsville, AL 35806

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 MDA Building 2410 Barracks Renovation
 W912DY22D0050

PARTIAL SECOND FLOOR PLAN - HVAC

SHEET ID
M-106



PARTIAL THIRD FLOOR PLAN - HVAC
 1/8" = 1'-0" 0 4' 8' 16'
 1/8" = 1'-0"

GENERAL NOTES

1. REFERENCE SHEET M-001 FOR LEGEND, SYMBOLS, ABBREVIATIONS AND FURTHER GENERAL NOTES.
2. CUT, PATCH, PAINT AND OTHERWISE FINISH SURFACES TO ACCOMMODATE THE INSTALLATION OF NEW ITEMS OR WHERE ITEMS ARE REMOVED TO MATCH ADJACENT SURFACES.

KEYED NOTES - DEMOLITION:

- (A) THE 4-PIPE FAN COIL UNIT SHALL REMAIN. REMOVE THE CHILLED WATER AND HEATING WATER COIL CONTROL VALVES AND ACTUATORS. DISCONNECT AND REMOVE THE UNITARY CONTROLLER AND WALL MOUNTED SPACE TEMPERATURE SENSOR. THE EXISTING WALL MOUNTED ON/OFF, FAN SPEED SWITCH SHALL REMAIN.
- (B) REMOVE THE CEILING MOUNTED EXHAUST FAN.
- (C) REMOVE THE RETURN AIR DEVICE (TYP).
- (D) DISCONNECT AND REMOVE THE AIR SEPARATOR.

KEYED NOTES - NEW CONSTRUCTION:

- (1) THE 4-PIPE FAN COIL UNIT SHALL REMAIN. FURNISH AND INSTALL NEW CHILLED WATER AND HEATING WATER CONTROL VALVES AND ACTUATORS. FURNISH AND INSTALL A NEW SPACE TEMPERATURE SENSOR IN THE LOCATION WHERE THE EXISTING SENSOR WAS REMOVED.
- (2) FURNISH AND INSTALL A NEW CEILING MOUNTED EXHAUST FAN. TRANSITION AND CONNECT TO THE EXISTING EXHAUST DUCT. BALANCE THE EXHAUST FAN AS SCHEDULED.
- (3) FURNISH AND INSTALL A NEW RETURN AIR DEVICE (TYP).
- (4) FURNISH AND INSTALL NEW CHILLED WATER SUPPLY PIPING WHERE THE EXISTING AIR SEPRATOR WAS DEMOLISHED.

THE CONTRACTOR SHALL AUDIT THE EXISTING FAN COILS UNITS. THE CONTRACTOR SHALL REPLACE 8 TO 9 OF THE MOST DEFICIENT UNITS. THE UNITS REPLACED SHALL BE NOTED ON THE AS-BUILT DRAWINGS.

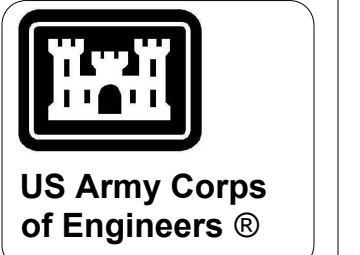


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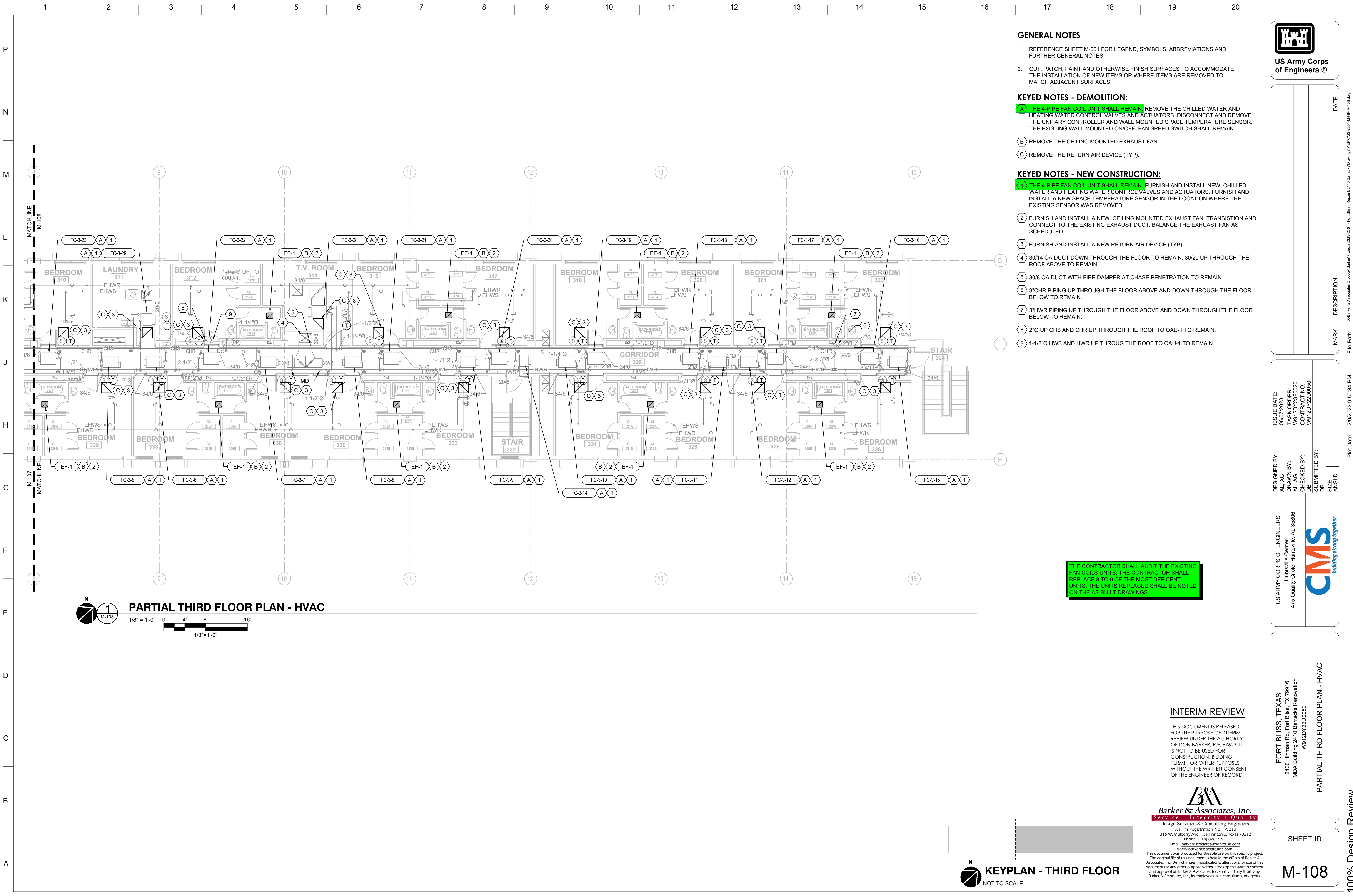
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 475 Quality Circle, Huntsville, AL 35806

FORT BLISS, TEXAS
 2400 Himman Rd, Fort Bliss, TX 79916
 MDA Building 2410 Barracks Renovation
 W912DY22D0050

PARTIAL THIRD FLOOR PLAN - HVAC

SHEET ID
M-107



GENERAL NOTES

1. REFERENCE SHEET M-001 FOR LEGEND, SYMBOLS, ABBREVIATIONS AND FURTHER GENERAL NOTES.
2. CUT, PATCH, PAINT AND OTHERWISE FINISH SURFACES TO ACCOMMODATE THE INSTALLATION OF NEW ITEMS OR WHERE ITEMS ARE REMOVED TO MATCH ADJACENT SURFACES.

KEYED NOTES - DEMOLITION:

- (A) THE 4-PIPE FAN COIL UNIT SHALL REMAIN. REMOVE THE CHILLED WATER AND HEATING WATER CONTROL VALVES AND ACTUATORS. DISCONNECT AND REMOVE THE UNITARY CONTROLLER AND WALL MOUNTED SPACE TEMPERATURE SENSOR. THE EXISTING WALL MOUNTED ON/OFF, FAN SPEED SWITCH SHALL REMAIN.
- (B) REMOVE THE CEILING MOUNTED EXHAUST FAN.
- (C) REMOVE THE RETURN AIR DEVICE (TYP).

KEYED NOTES - NEW CONSTRUCTION:

- (1) THE 4-PIPE FAN COIL UNIT SHALL REMAIN. FURNISH AND INSTALL NEW CHILLED WATER AND HEATING WATER CONTROL VALVES AND ACTUATORS. FURNISH AND INSTALL A NEW SPACE TEMPERATURE SENSOR IN THE LOCATION WHERE THE EXISTING SENSOR WAS REMOVED.
- (2) FURNISH AND INSTALL A NEW CEILING MOUNTED EXHAUST FAN. TRANSITION AND CONNECT TO THE EXISTING EXHAUST DUCT. BALANCE THE EXHAUST FAN AS SCHEDULED.
- (3) FURNISH AND INSTALL A NEW RETURN AIR DEVICE (TYP).
- (4) 30/14 OA DUCT DOWN THROUGH THE FLOOR TO REMAIN. 30/20 UP THROUGH THE ROOF ABOVE TO REMAIN.
- (5) 30/8 OA DUCT WITH FIRE DAMPER AT CHASE PENETRATION TO REMAIN.
- (6) 3"CHR PIPING UP THROUGH THE FLOOR ABOVE AND DOWN THROUGH THE FLOOR BELOW TO REMAIN.
- (7) 3"HWR PIPING UP THROUGH THE FLOOR ABOVE AND DOWN THROUGH THE FLOOR BELOW TO REMAIN.
- (8) 2"Ø UP CHS AND CHR UP THROUGH THE ROOF TO OAU-1 TO REMAIN.
- (9) 1-1/2"Ø HWS AND HWR UP THROUGH THE ROOF TO OAU-1 TO REMAIN.

THE CONTRACTOR SHALL AUDIT THE EXISTING FAN COILS UNITS. THE CONTRACTOR SHALL REPLACE 8 TO 9 OF THE MOST DEFICIENT UNITS. THE UNITS REPLACED SHALL BE NOTED ON THE AS-BUILT DRAWINGS.

PARTIAL THIRD FLOOR PLAN - HVAC
 1/8" = 1'-0"
 0 4' 8' 16'
 1/8" = 1'-0"

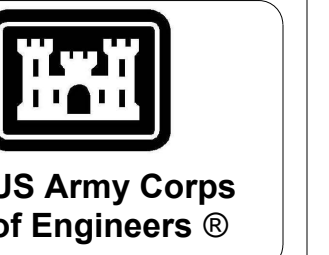


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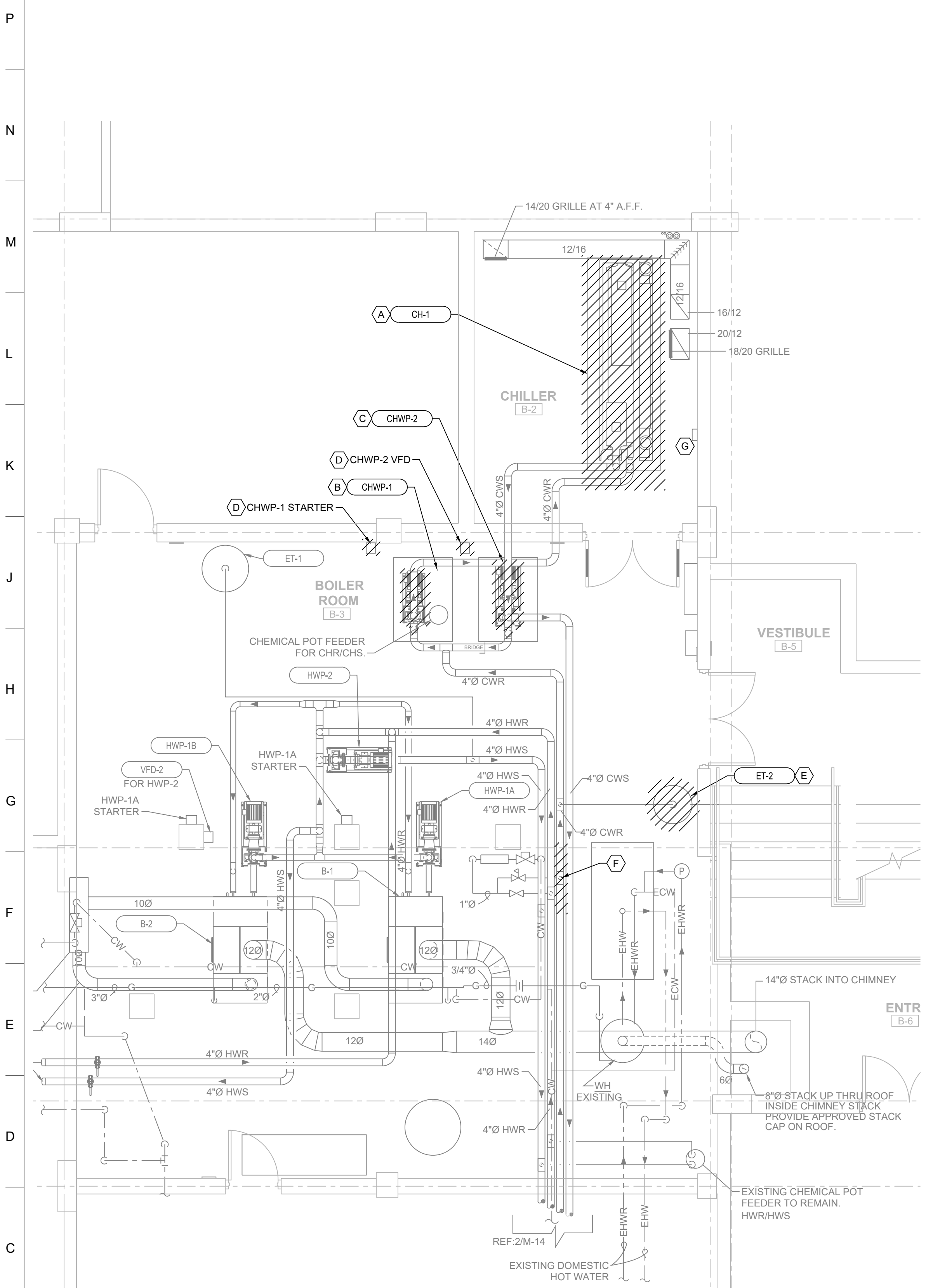
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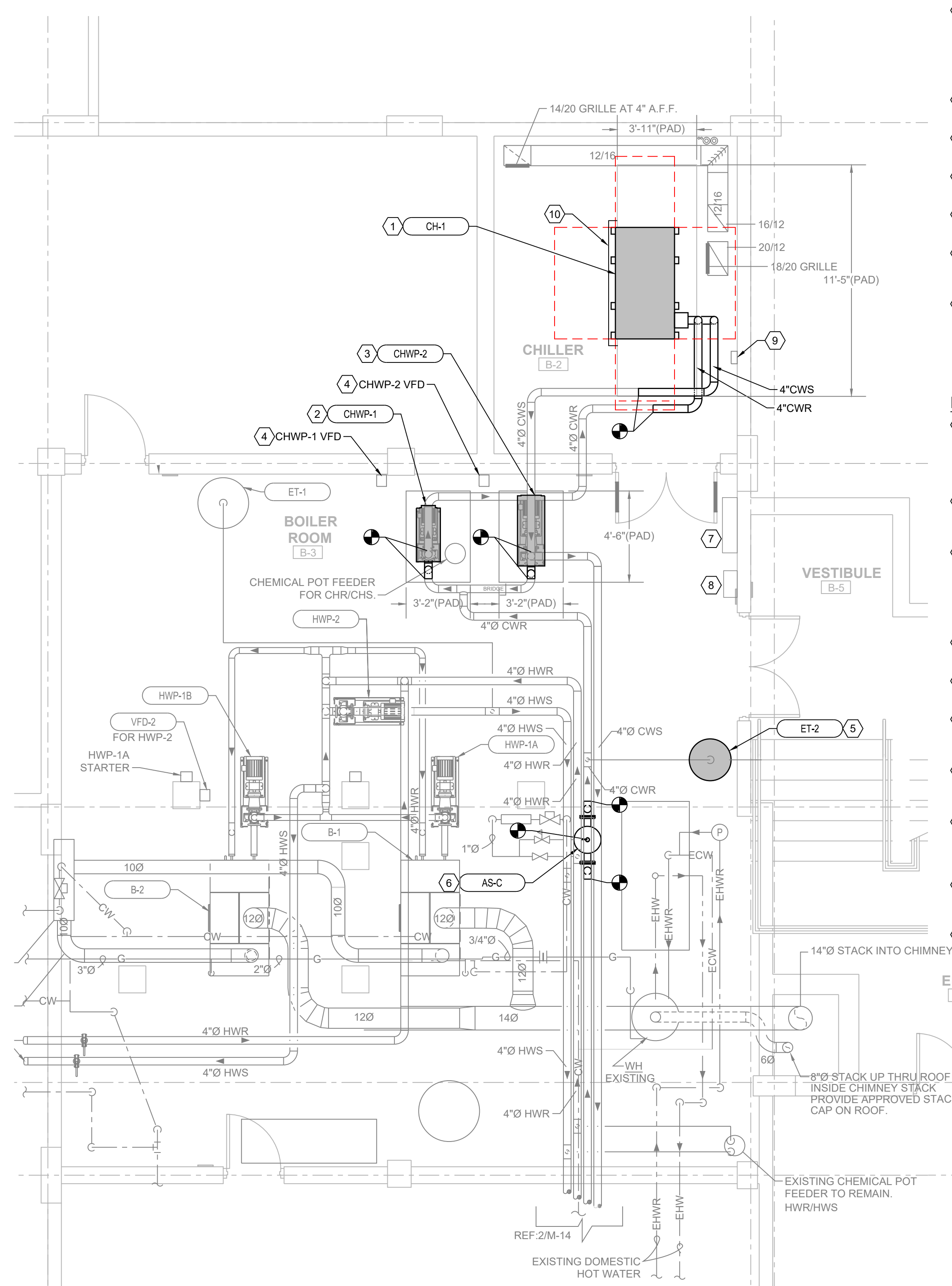
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 2400 Himmman Rd, Fort Bliss, TX 79916
 MDA Building 2410 Barracks Renovation
 W912DY22D0050

PARTIAL THIRD FLOOR PLAN - HVAC

SHEET ID
M-108



1 PARTIAL BASEMENT FLOOR PLAN - DEMOLITION - HVAC
 1/4" = 1'-0"
 0 2' 4' 8'
 1/4" = 1'-0"



2 PARTIAL BASEMENT FLOOR PLAN - NEW CONSTRUCTION - HVAC
 1/4" = 1'-0"
 0 2' 4' 8'
 1/4" = 1'-0"

GENERAL NOTES

- REFERENCE SHEET M-001 FOR LEGEND, SYMBOLS, ABBREVIATIONS AND FURTHER GENERAL NOTES.
- CUT, PATCH, PAINT AND OTHERWISE FINISH SURFACES TO ACCOMMODATE NEW ITEMS OR WHERE ITEMS ARE REMOVED TO MATCH ADJACENT SURFACES.

KEYED NOTES - DEMOLITION:

- DISCONNECT AND REMOVE THE R-22 CHILLER, REFRIGERANT PIPING, CONTROL CIRCUIT AND APPURTENANCES. THE CONTRACTOR SHALL RECOVER THE EXISTING R-22 REFRIGERANT AND DISPOSE OF PROPERLY PER FEDERAL, STATE AND LOCAL REGULATIONS. DISCONNECT THE CHILLER FROM THE DDC SYSTEM AND REMOVE ALL DDC SYSTEM SENSORS AND DEVICES ASSOCIATED WITH THE CHILLER. EQUIPMENT PAD TO REMAIN.
- DISCONNECT AND REMOVE THE PRIMARY CHILLED WATER PUMP, ACCESSORIES AND APPURTENANCES.
- DISCONNECT AND REMOVE THE SECONDARY CHILLED WATER PUMP, ACCESSORIES AND APPURTENANCES.
- VFD AND STARTER SERVING THE CILLED WATER PUMPS SHOWN FOR REFERENCE. SEE ELECTRICAL SCOPE OF WORK.
- DISCONNECT AND REMOVE THE CHILLED WATER EXPANSION TANK, CONNECTED PIPING AND APPURTENANCES.
- REMOVE A SECTION OF PIPING TO ACCOMODATE THE INSTALLATION OF A NEW CHILLED WATER AIR SEPARATOR. DISCONNECT THE MAKE-UP WATER AT THE REMOVED SECTION OF PIPING.
- CHILLER ROOM REFRIGERANT VENTILATION CONTROLLER AND SYSTEM SHALL REMAIN. THE SYSTEM SIGNAGE SHALL BE UPDATED FOR R410A REFRIGERANT.

KEYED NOTES - NEW CONSTRUCTION:

- FURNISH AND INSTALL A NEW CHILLER, CONTROLS, REFRIGERANT PIPING, CHILLED WATER PIPING, ACCESSORIES, AND APPURTENANCES. ROUTE THE REFRIGERANT PIPING FROM THE NEW CHILLER UP THOUGH THE ROOF TO NEW ROOF MOUNTED AIR COOLED CONDENSING UNIT. THE UNIT SHALL INSTALLED TO CONFORM WITH THE MANUFACTURER'S REQUIRED CLEARANCES.
- FURNISH AND INSTALL A NEW FRAME MOUNTED, END SUCTION CHILLED WATER PRIMARY PUMP, ACCESSORIES AND APPURTENACNES. REFERENCE 2M-501 FOR INSTALLATION DETAIL.
- FURNISH AND INSTALL A NEW FRAME MOUNTED, END SUCTION CHILLED WATER SECONDARY PUMP, ACCESSORIES AND APPURTENACNES. REFERENCE 2M-501 FOR INSTALLATION DETAIL. THE EQUIPMENT PAD SHALL BE EXTENDED IF THE NEW PUMP DOES NOT FIT WITHIN THE FOOTPRINT OF THE EXISTING PAD. NOTE: THE CURRENT BASIS OF DESIGN PUMPS HAVE FOOTPRINTS THAT FIT WITHIN THE FOOTPRINTS OF THE EXISTING PUMP PADS.
- VFD SERVING THE CHILLED WATER PUMPS SHOWN FOR REFERENCE. SEE THE ELECTRICAL DRAWINGS FOR SCOPE OF WORK.
- FURNISH AND INSTALL A NEW CHILLED WATER EXPANSION TANK. REFERENCE 1M-501 FOR INSTALLATION DETAIL.
- FURNISH AND INSTALL A NEW CHILLED WATER AIR SEPARATOR. REFERENCE 1M-501 FOR INSTALLATION DETAIL. EXTEND, TRANSITION AND CONNECT THE MAKE-UP WATER TO THE NEW AIR SEPARATOR.
- JOHNSON CONTROLS METASYS PANEL. INTEGRATE NEW LONWORKS CONTROLS TO THE EXISTING BASE WIDE TRIDUUM WEB SUPERVISOR UTILITY MONITORING AND CONTROL SYSTEM.
- THE LOYTEC ROUTER, NEC SWITCH AND ASSOCIATED UMCS FRONT END COMMUNICATION DEVICES SHALL REMAIN. THE CONTRACTOR SHALL REPAIR OR REMOVE AND REPLACE ANY DAMAGED CABLING REQUIRED FOR A FUNCTIONAL SYSTEM. THE CONTRACTOR SHALL REMOVE ANY CABLING NO LONGER REQUIRED.
- EXISTING CHILLER ROOM REFRIGERANT VENTILATION CONTROLLER TO REMAIN. THE DDC SHALL ALARM WHEN THE EMERGENCY VENTILATION FANS ARE ACTIVUED DUE TO REFRIGERANT LEAK DETECTION.
- FURNISH AND INSTALL AN AN EXTENSION TO THE EXISTING EQUIPMENT PAD. THE NEW EXTENSION SHALL EXTEND A MINIMUM OF 4 INCHES BEYOND THE FOOTPRINT OF THE NEW CHILLER.

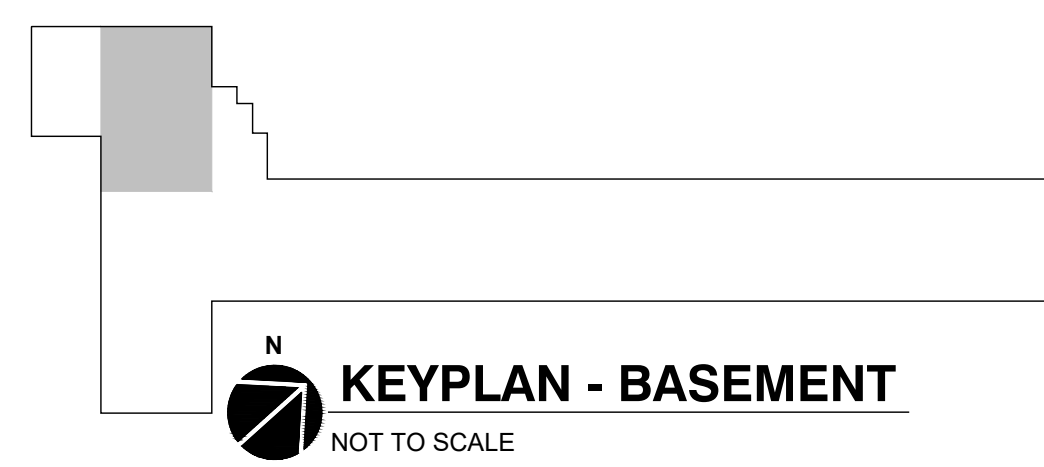
THE CONTRACTOR SHALL FLUSH CHEMICALLY FLUSH THE ENTIRE CHILLED WATER SYSTEM AND CLEAN ALL STRAINERS IN THE CHILLED WATER SYSTEM.

INTERIM REVIEW

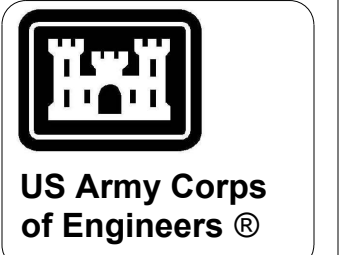
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KEYPLAN SCALE = 1/720 = 1" = 60'



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 PARTIAL BASEMENT FLOOR PLAN - HVAC

SHEET ID
M-401