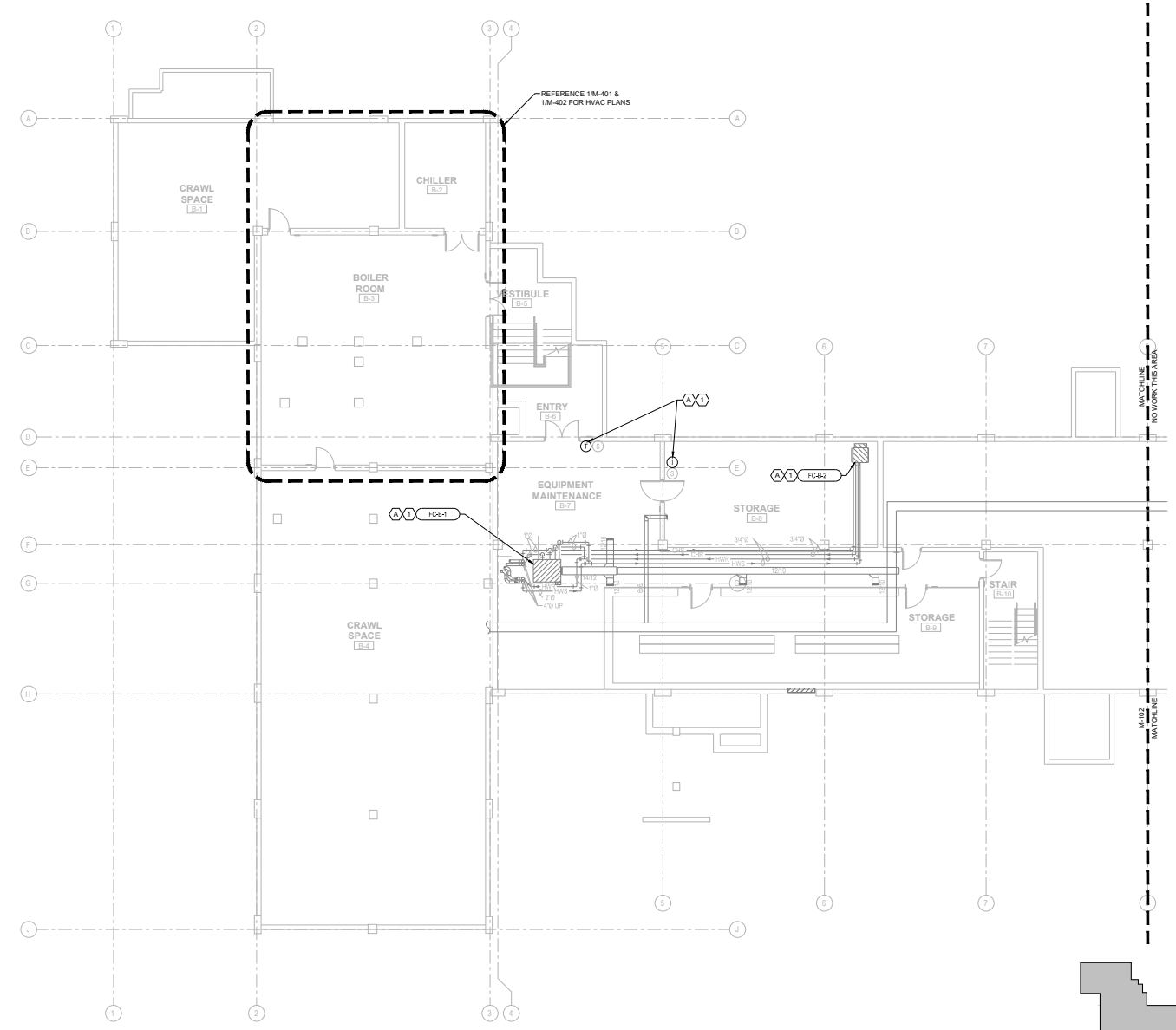


PARTIAL BASEMENT FLOOR PLAN - HVAC

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.

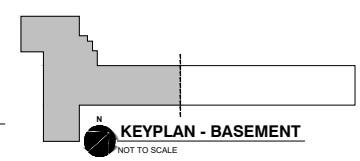
KEYED NOTES - DEMOLITION:

A THE 4-PIPE FAN COIL UNIT SHALL REMAIN. REMOVE THE CHILLED WATER AND HEATING WATER 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.

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.

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



KEYPLAN - BASEMENT

NOT TO SCALE

INTERIM REVIEW

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Design Services & Consulting Engineers
TX Firm Registration No. F-9213
316 W. Mulberry Ave., San Antonio, Texas 78212
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Plot Date: 2/9/2023 9:50:34 PM

DESIGNED BY: AL AG	ISSUE DATE: 06/07/2023
DRAWN BY: AL AG	TASK ORDER: W912DY23F0020
CHECKED BY: DB	CONTRACT NO.: W912DY22D0050
SUBMITTED BY: DB	
SIZE: ANSI D	

US ARMY CORPS OF ENGINEERS
Huntsville Center
475 Quality Circle, Huntsville, AL 35806

CMS building strong together

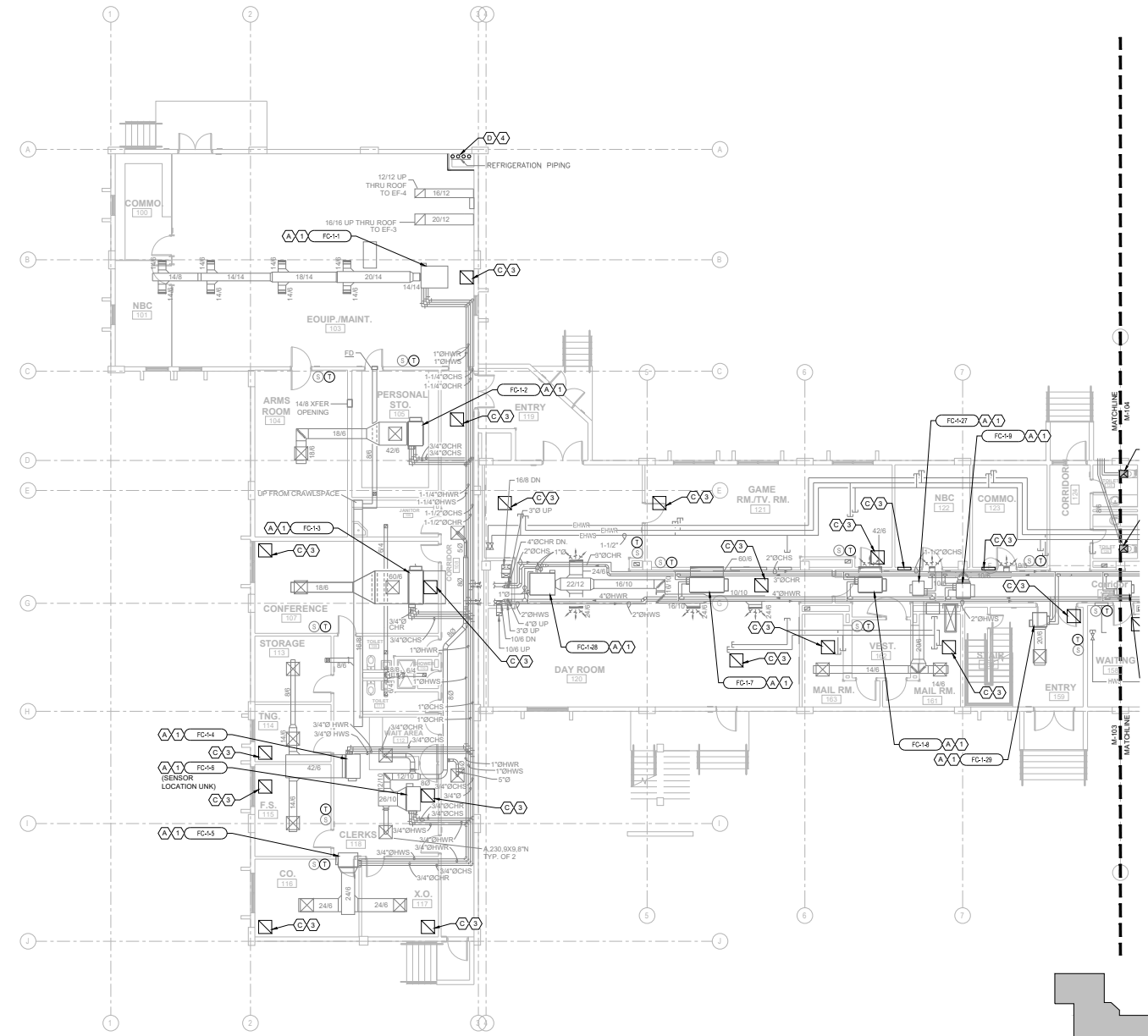
FORT BLISS, TEXAS
2400 Hinman Rd, Fort Bliss, TX 79916
MDA Building 2410 Barracks Renovation
W912DY22D0050

PARTIAL BASEMENT FLOOR PLAN - HVAC

SHEET ID

M-102

100% Design Review



PARTIAL FIRST FLOOR PLAN - HVAC

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 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.

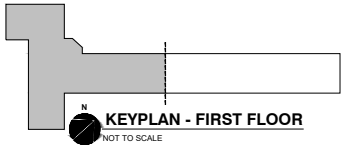
C. REMOVE THE RETURN AIR DEVICE (TYP).

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. TRANSISTION AND CONNECT TO THE EXISTING EXHAUST DUCT. BALANCE THE EXHUAST 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 DEFICENT UNITS. THE UNITS REPLACED SHALL BE NOTED ON THE AS-BUILT DRAWINGS.



KEYPLAN - FIRST FLOOR

NOT TO SCALE

INTERIM REVIEW

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Plot Date: 2/9/2023 9:50:34 PM

DESIGNED BY: AL AG	ISSUE DATE: 05/07/2023
DRAWN BY: AL AG	TASK ORDER: W912DY23F0020
CHECKED BY: DB	CONTRACT NO.: W912DY22D0050
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US ARMY CORPS OF ENGINEERS
Huntsville Center
475 Quality Circle, Huntsville, AL 35806

CMS building strong together

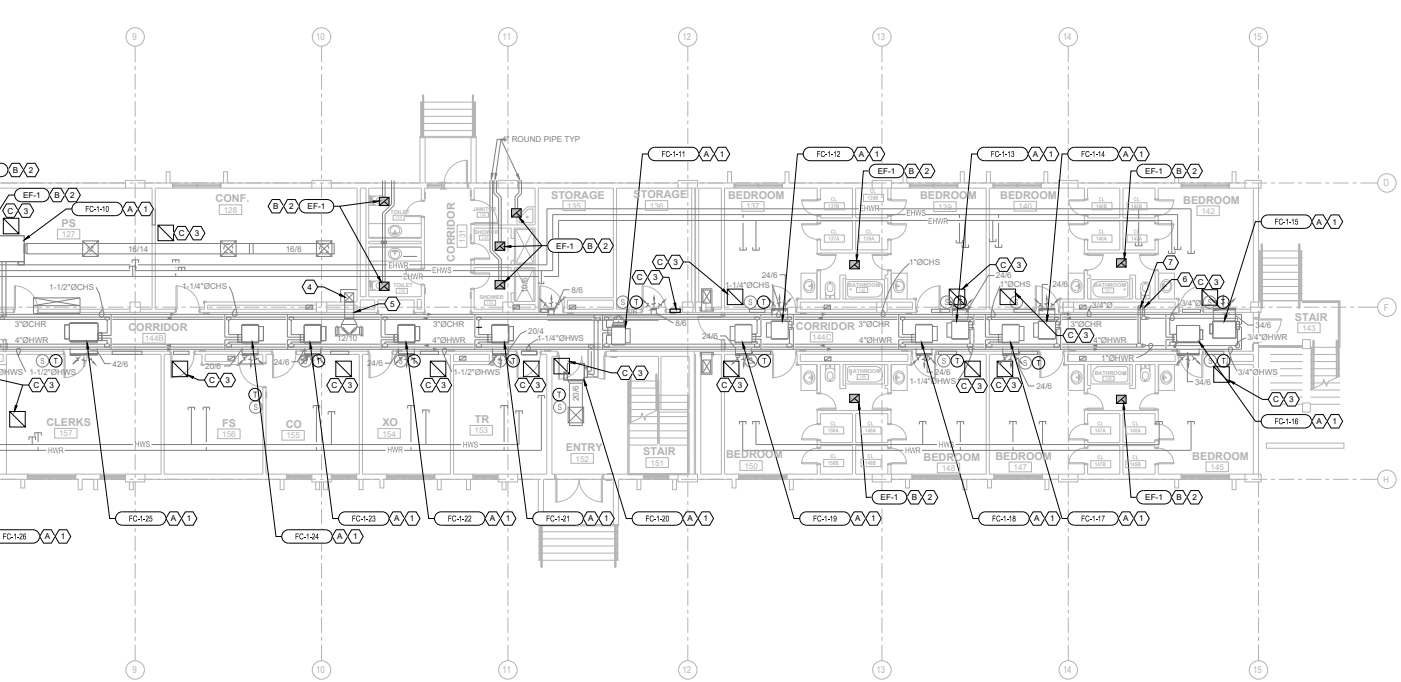
FORT BLISS, TEXAS
2400 Hinman Rd, Fort Bliss, TX 79916
MDA Building 2410 Barracks Renovation
W912DY22D0050

PARTIAL FIRST FLOOR PLAN - HVAC

SHEET ID

M-103

100% Design Review



PARTIAL FIRST FLOOR PLAN - HVAC

1/8" = 1'-0"

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 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. TRANSISTION AND CONNECT TO THE EXISTING EXHAUST DUCT. BALANCE THE EXHUAST FAN AS SCHEDULED.

(3) FURNISH AND INSTALL A NEW RETURN AIR DEVICE (TYP).

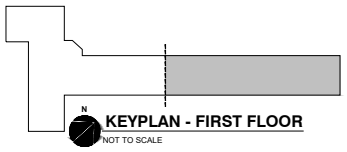
(4) 16/10 OA DUCT DOWN THROUGH THE FLOOR TO REMAIN. 14/14 UP THROUGH THE FLOOR ABOVE TO REMAIN.

(5) 14/14OA DUCT WITH FIRE DAMPER AT CHASE PENETRATION TO REMAIN.

(6) 3"CHR PIPING UP THROUGH THE FLOOR ABOVE TO REMAIN.

(7) 3"HWR PIPING UP THROUGH THE FLOOR ABOVE TO REMAIN.

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



KEYPLAN - FIRST FLOOR

NOT TO SCALE

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DRAWN BY: AL AG
CHECKED BY: DB
SUBMITTED BY: DB
SIZE: ANSI D

ISSUE DATE: 06/07/2023
TASK ORDER: W912DY20F0020
CONTRACT NO.: W912DY22D0060

US ARMY CORPS OF ENGINEERS
Huntsville Center
475 Quality Circle, Huntsville, AL 35808

CMS Building strong together

FORT BLISS, TEXAS
2400 Pleasonton Rd, Fort Bliss, TX 79916
MDA Building 2410 Barracks Renovation
W912DY22D0060

PARTIAL FIRST FLOOR PLAN - HVAC

SHEET ID
M-104

100% Design Review

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Plot Date: 29/2023 9:50:34 PM

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.

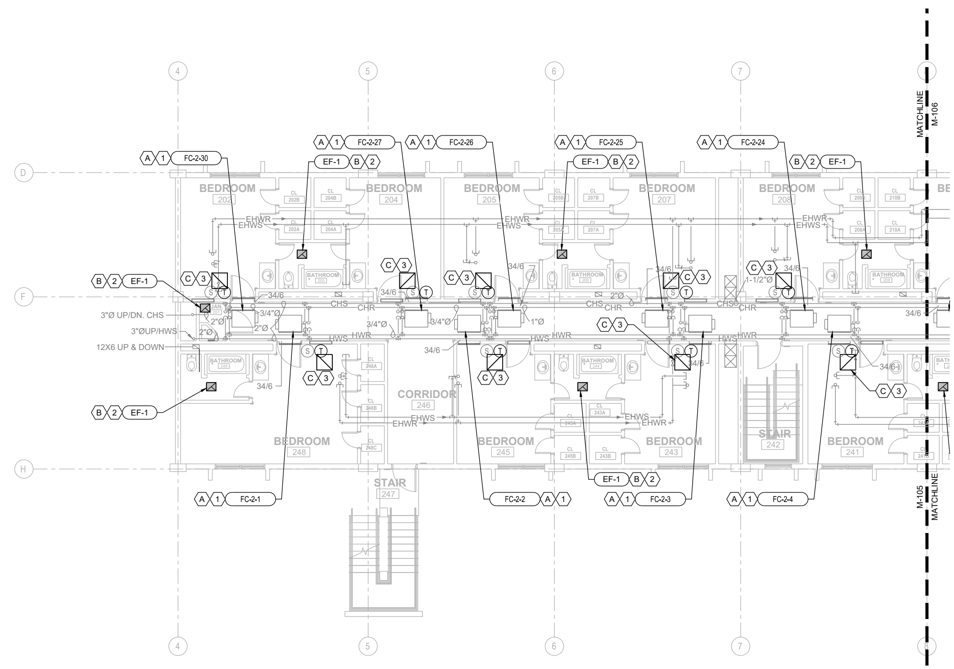
(C) REMOVE THE RETURN AIR DEVICE (TYP).

KEYED NOTES - NEW CONSTRUCTION:

(1) THE 4-PIPE FAN COIL UNIT SHALL REMAIN. FURNISH AND INSTALL A 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).



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

1 PARTIAL SECOND FLOOR PLAN - HVAC

M-105

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

INTERIM REVIEW

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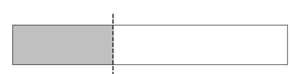

KEYPLAN - SECOND FLOOR

NOT TO SCALE

US Army Corps of Engineers ®

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475 Quality Circle, Huntsville, AL 35806

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CHECKED BY: DB
SUBMITTED BY: DB
SIZE: ANSI D

ISSUE DATE: 06/07/2023
TASK ORDER: W912DY23F0020
CONTRACT NO.: W912DY22D0050

Plot Date: 2/9/2023 9:50:34 PM

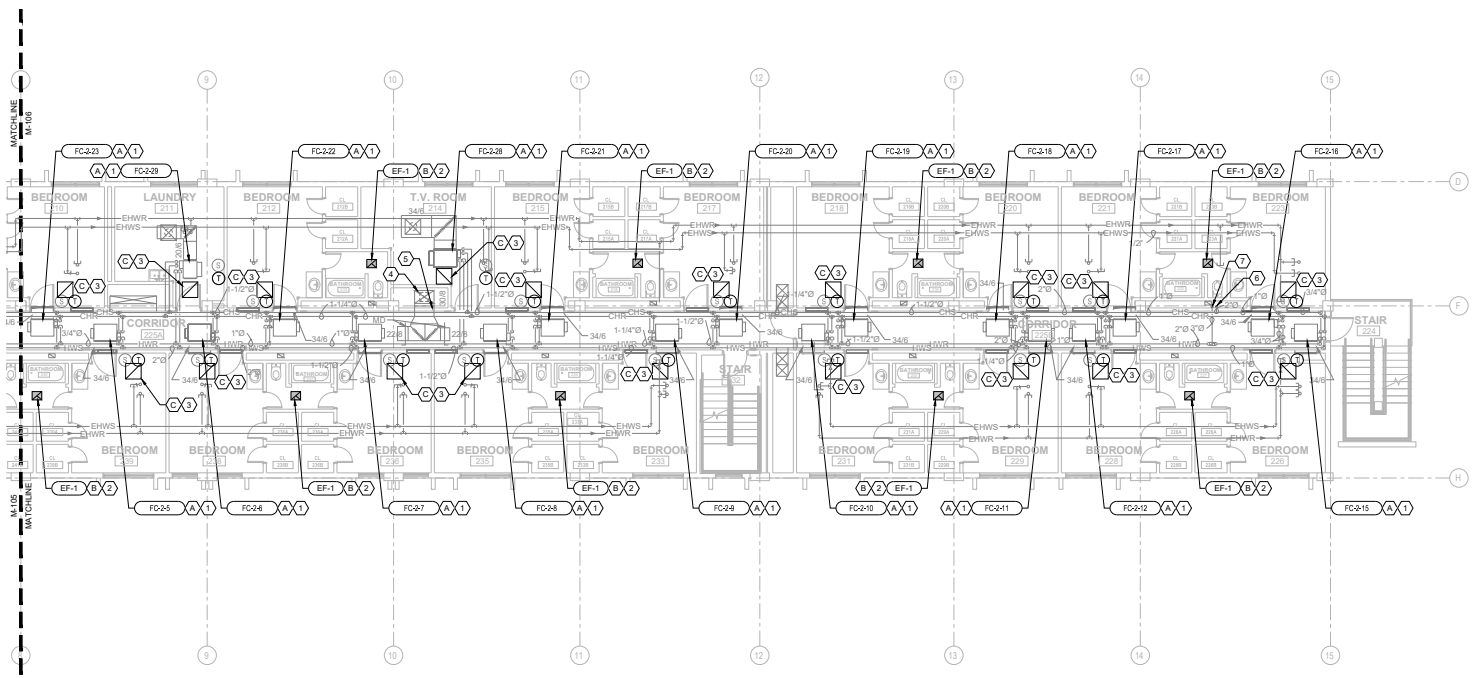
FORT BLISS, TEXAS
2400 Hinman Rd, Fort Bliss, TX 79916
MDA Building 2410 Barracks Renovation
W912DY22D0050

PARTIAL SECOND FLOOR PLAN - HVAC

SHEET ID

M-105

100% Design Review



PARTIAL SECOND FLOOR PLAN - HVAC

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 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.

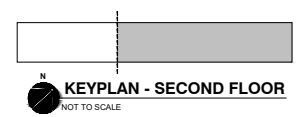
B. REMOVE THE CEILING MOUNTED EXHAUST FAN.

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. TRANSISTION AND CONNECT TO THE EXISTING EXHAUST DUCT. BALANCE THE EXHUAST 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 DEFICENT UNITS. THE UNITS REPLACED SHALL BE NOTED ON THE AS-BUILT DRAWINGS.



KEYPLAN - SECOND FLOOR

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Plot Date: 29/2023 9:50:34 PM

DESIGNED BY: AL AG
DRAWN BY: AL AG
CHECKED BY: DB
SUBMITTED BY: DB
SIZE: ANSI D
ISSUE DATE: 05/07/2023
TASK ORDER: W912DY23F0020
CONTRACT NO.: W912DY2200050

US ARMY CORPS OF ENGINEERS
Huntsville Center
475 Quality Circle, Huntsville, AL 35806

CMS building strong together

FORT BLISS, TEXAS
2400 Hinman Rd, Fort Bliss, TX 79916
MDA Building 2410 Barracks Renovation
W912DY2200050

PARTIAL SECOND FLOOR PLAN - HVAC

SHEET ID
M-106

100% Design Review

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).

(D) DISCONNECT AND REMOVE THE AIR SEPARATOR.

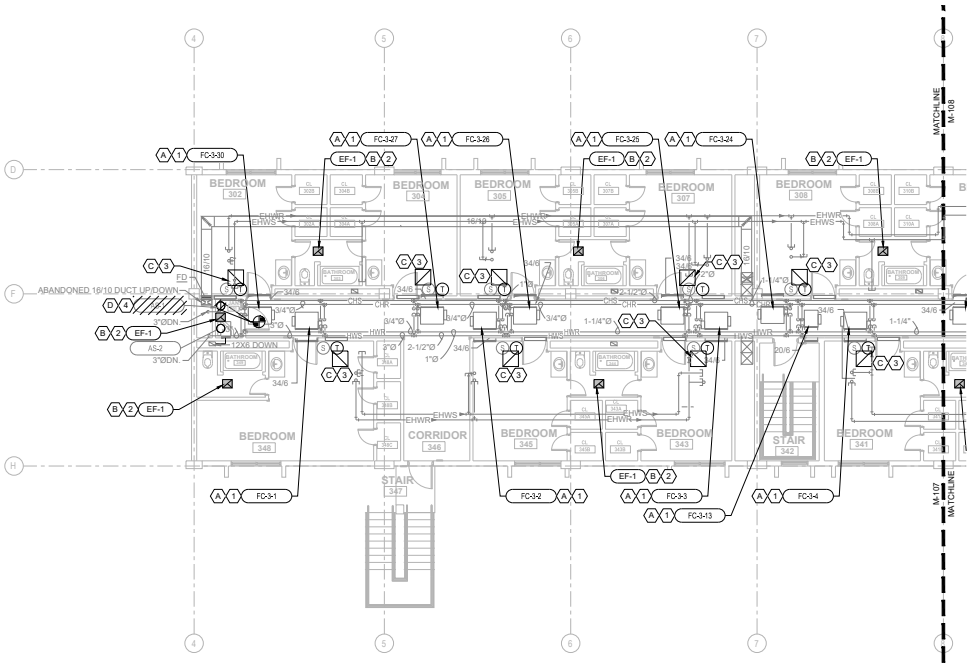
KEYED NOTES - NEW CONSTRUCTION:

(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. TRANSISTION AND CONNECT TO THE EXISTING EXHAUST DUCT. BALANCE THE EXHUAST 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.



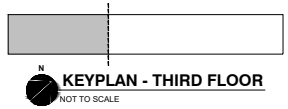
N 1 M-107

PARTIAL THIRD FLOOR PLAN - HVAC

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

1/8"=1'-0"

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



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KEYPLAN - THIRD FLOOR

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ISSUE DATE: 06/07/2023
TASK ORDER: W912DY20F0020
CONTRACT NO.: W912DY2200060

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475 Quality Circle, Huntsville, AL 35808

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MDA Building 2410 Barracks Renovation
W912DY2200060

PARTIAL THIRD FLOOR PLAN - HVAC

SHEET ID
M-107

100% Design Review

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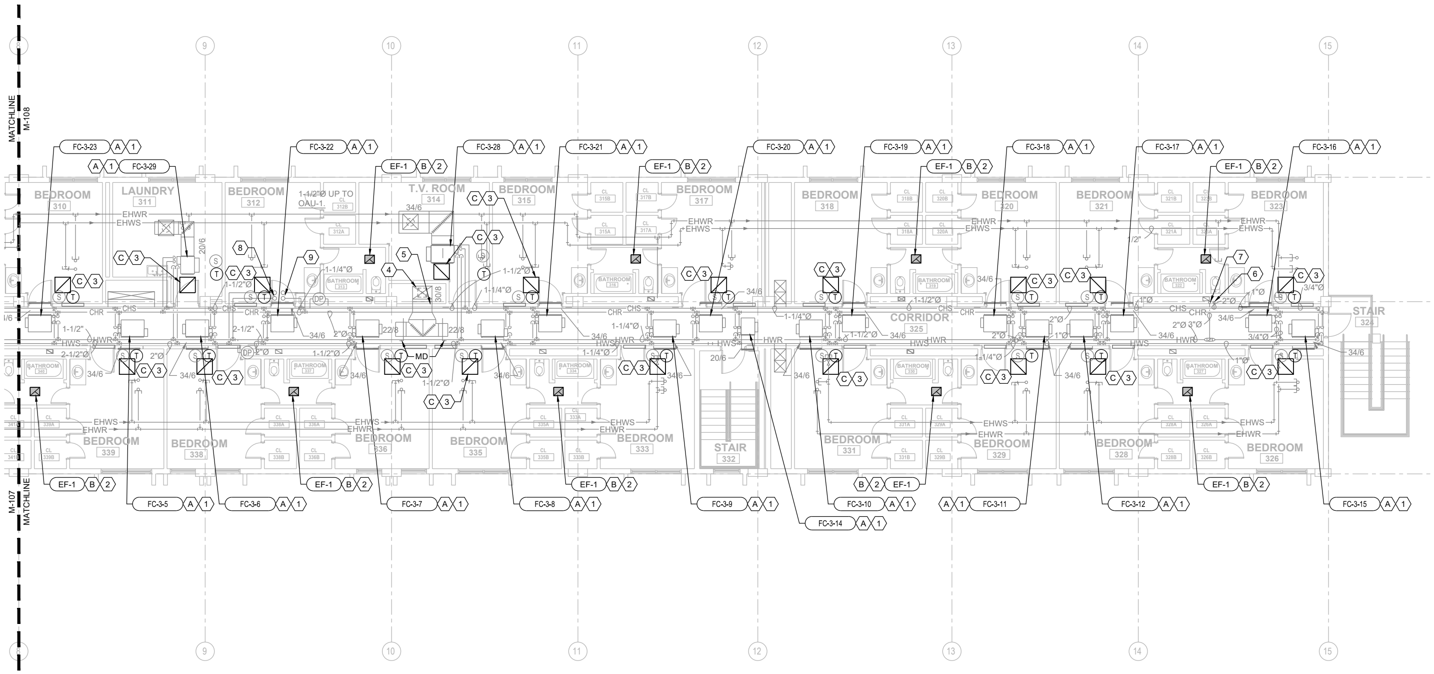

PARTIAL THIRD FLOOR PLAN - HVAC

1 / M-108

1/8" = 1'-0"

0 4' 8' 16'

1/8"=1'-0"

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

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. TRANSISTION AND CONNECT TO THE EXISTING EXHAUST DUCT. BALANCE THE EXHUAST 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 THROUG THE ROOF TO OAU-1 TO REMAIN.

INTERIM REVIEW

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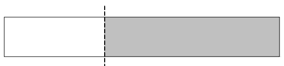

KEYPLAN - THIRD FLOOR

NOT TO SCALE

US Army Corps of Engineers ®

MARK	DESCRIPTION	DATE

DESIGNED BY: AL, AG	ISSUE DATE: 06/07/2023
DRAWN BY: AL, AG	TASK ORDER: W912DY23F0020
CHECKED BY: DB	CONTRACT NO.: W912DY22D0050
SUBMITTED BY: DB	
SIZE: ANSI D	

US ARMY CORPS OF ENGINEERS
Huntsville Center
475 Quality Circle, Huntsville, AL 35806

CMS building strong together

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

PARTIAL THIRD FLOOR PLAN - HVAC

SHEET ID
M-108

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100% Design Review