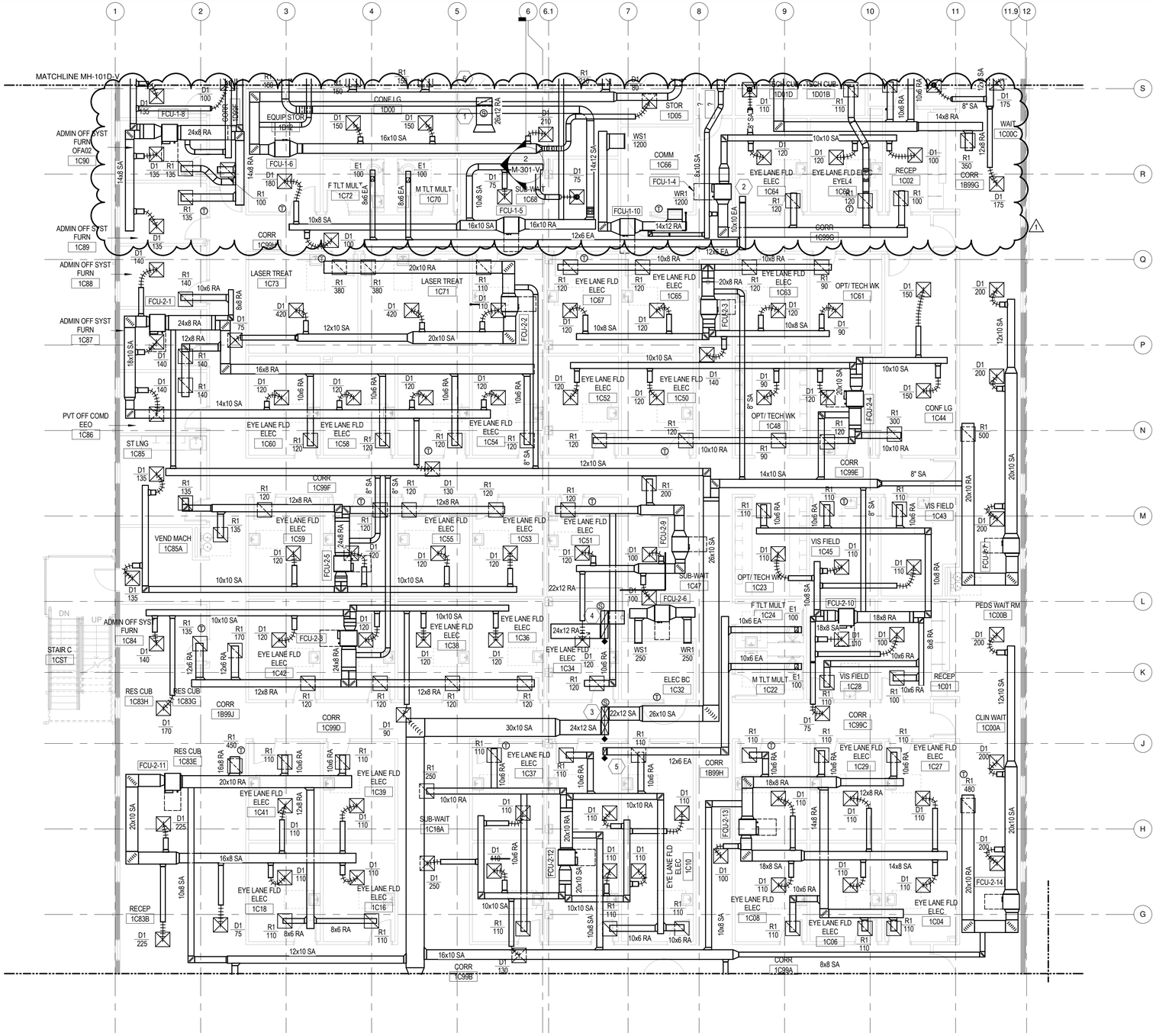

1 LEVEL 1 P125 - AREA C - HVAC

1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0"

GENERAL NOTES:

A. COORDINATE DUCT PENATRATION, LOCATION AND EQUIPMENT ACCESS PRIOR TO INSTALLATION.

B. DUCT/FLEX CONNECT TO SUPPLY AIR DEVICE SHALL BE SAME SIZE AS NECK CONNECTION AND LIMITED TO SIX FEET.

C. UNLESS SHOWN DIFFERENTLY, SIZE ALL SUPPLY DUCT DOWNSTREAM OF AIR TERMINAL UNITS, RETURN AND EXHAUST DUCT BRANCHES AND LOW PRESSURE DUCTS AT 0.08 IN WG/ 100 FEET.

D. PROVIDE BALANCING DAMPER FOR ALL BRANCH DUCT TAKE OFF.

KEYED NOTES:

1 26x12 RA UP TU RTU-2.

2 10x10 EA UP TO EF-2-3.

3 46x12 SA UP.

4 46x12 RA UP.

5 12x6 EA UP.

6 34x10 SA UP TO RTU-2.

SYM	DESCRIPTION	DATE
1	BID OPTION	11/04/15
	FINAL CORRECTED SET	03/26/14
	100% FINAL DESIGN SUBMISSION	02/14/14
	65% VE SUBMISSION	11/25/13
	65% SUBMITTAL	04/26/13
	35% SUBMITTAL	03/08/13
	20% SUBMITTAL	01/18/13

NAVFAC

COMMONWEALTH OF VIRGINIA
SOPHEAP CHAN
Lic. No. 0402042516
11/4/15
PROFESSIONAL ENGINEER

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1101 KING STREET
SUITE 400
ALEXANDRIA, VIRGINIA 22314
703-518-8500

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES CS DRW VV CHK DL

PM/DM CHEMENJU/HILL

BRANCH MANAGER N/A

CHIEF ENG/ARCH TOM COX

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
COMPONENT NAME
NAVAL FACILITIES ENGINEERING COMMAND ~ AGENCY
BASE - CITY, STATE
BETHESDA, MD

PROJECT STATION/INSTALLATION
P125 - TEMPORARY MEDICAL FACILITIES
PACKAGE 2 - CLINIC BUILDING

MECHANICAL - FLOOR PLAN - FIRST FLOOR AREA C

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

EPROJECT NO.: 1151333

CONSTR. CONTR. NO. N62470-09-D-9044

NAVFAC DRAWING NO. 13066018

SHEET 0 OF 0

MH-101C-V

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KEY PLAN

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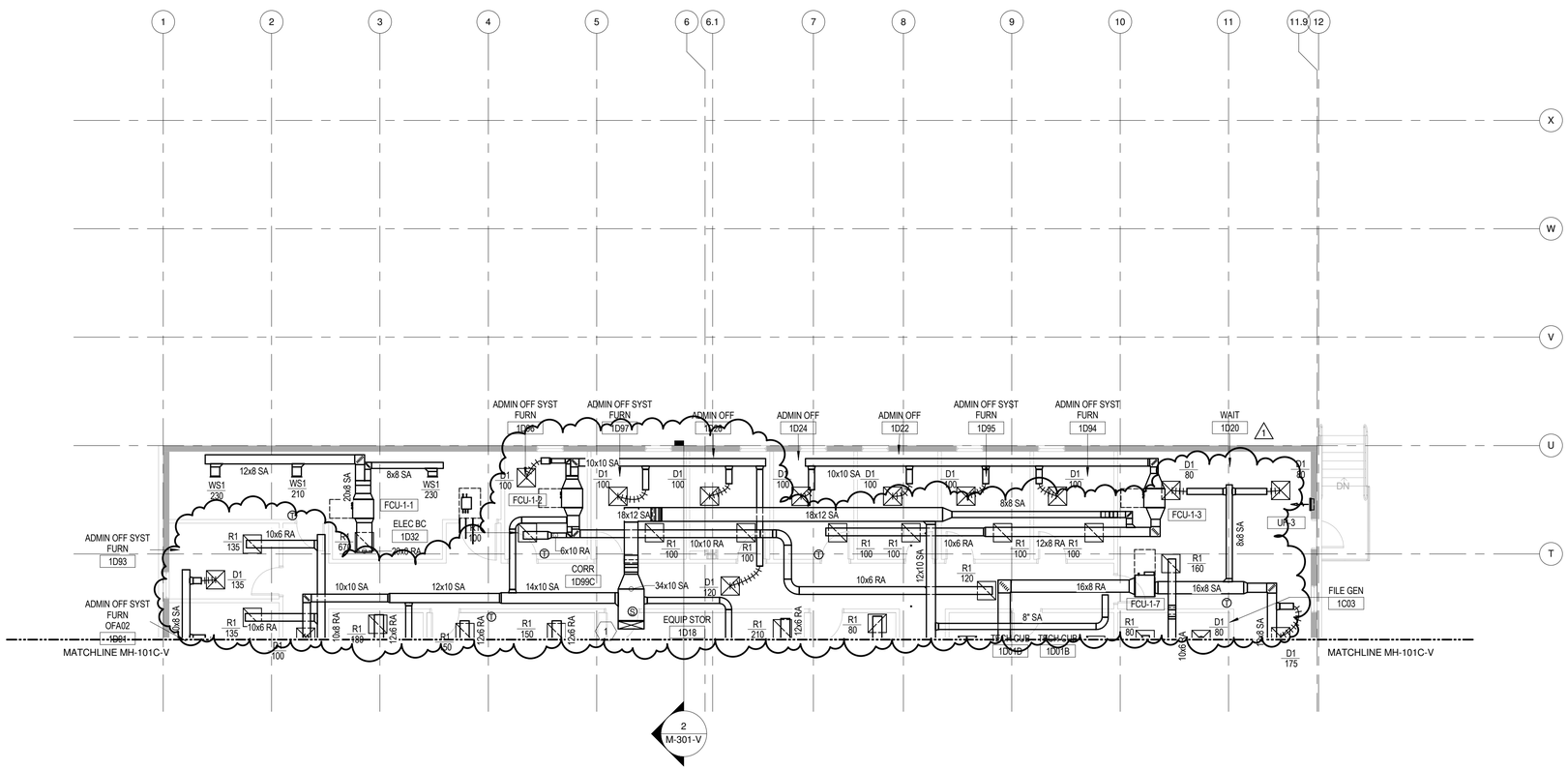
GENERAL NOTES:

A. COORDINATE DUCT PENATRATION, LOCATION AND EQUIPMENT ACCESS PRIOR TO INSTALLATION.
B. DUCT/FLEX CONNECT TO SUPPLY AIR DEVICE SHALL BE SAME SIZE AS NECK CONNECTION AND LIMITED TO SIX FEET.
C. UNLESS SHOWN DIFFERENTLY, SIZE ALL SUPPLY DUCT DOWNSTREAM OF AIR TERMINAL UNITS, RETURN AND EXHAUST DUCT BRANCHES AND LOW PRESSURE DUCTS AT 0.08 IN WG/ 100 FEET.
D. PROVIDE BALANCING DAMPER FOR ALL BRANCH DUCT TAKE OFF.

KEYED NOTES:

1 34x10 SA UP TO RTU-2.



1 LEVEL 1 P125 - AREA D - HVAC
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0"

SYM	DESCRIPTION	DATE
1	BID OPTION	11/04/15
	FINAL CORRECTED SET	03/26/14
	100% FINAL DESIGN SUBMISSION	02/14/14
	65% VE SUBMISSION	11/25/13
	65% SUBMITTAL	04/26/13
	35% SUBMITTAL	03/08/13
	20% SUBMITTAL	01/18/13

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SUITE 400
ALEXANDRIA, VIRGINIA 22314
703-518-8500

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FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE

DES	CS	DRW	VV	CHK	DL
PM/DM	CHEMENJU/HILL				
BRANCH MANAGER	N/A				
CHIEF ENG/ARCH	TOM COX				

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ AGENCY
COMPONENT NAME:
NAVAL FACILITIES ENGINEERING COMMAND
BASE - CITY STATE
BETHESDA, MD
PROJECT STATION/INSTALLATION
P125 - TEMPORARY MEDICAL FACILITIES
PACKAGE 2 - CLINIC BUILDING
MECHANICAL - FLOOR PLAN - FIRST FLOOR AREA D

SCALE: 1/8" = 1'-0"
EPROJECT NO.: 1151333
CONSTR. CONTR. NO. N62470-09-D-9044
NAVFAC DRAWING NO. 13066019
SHEET OF 0
MH-101D-V

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KEY PLAN

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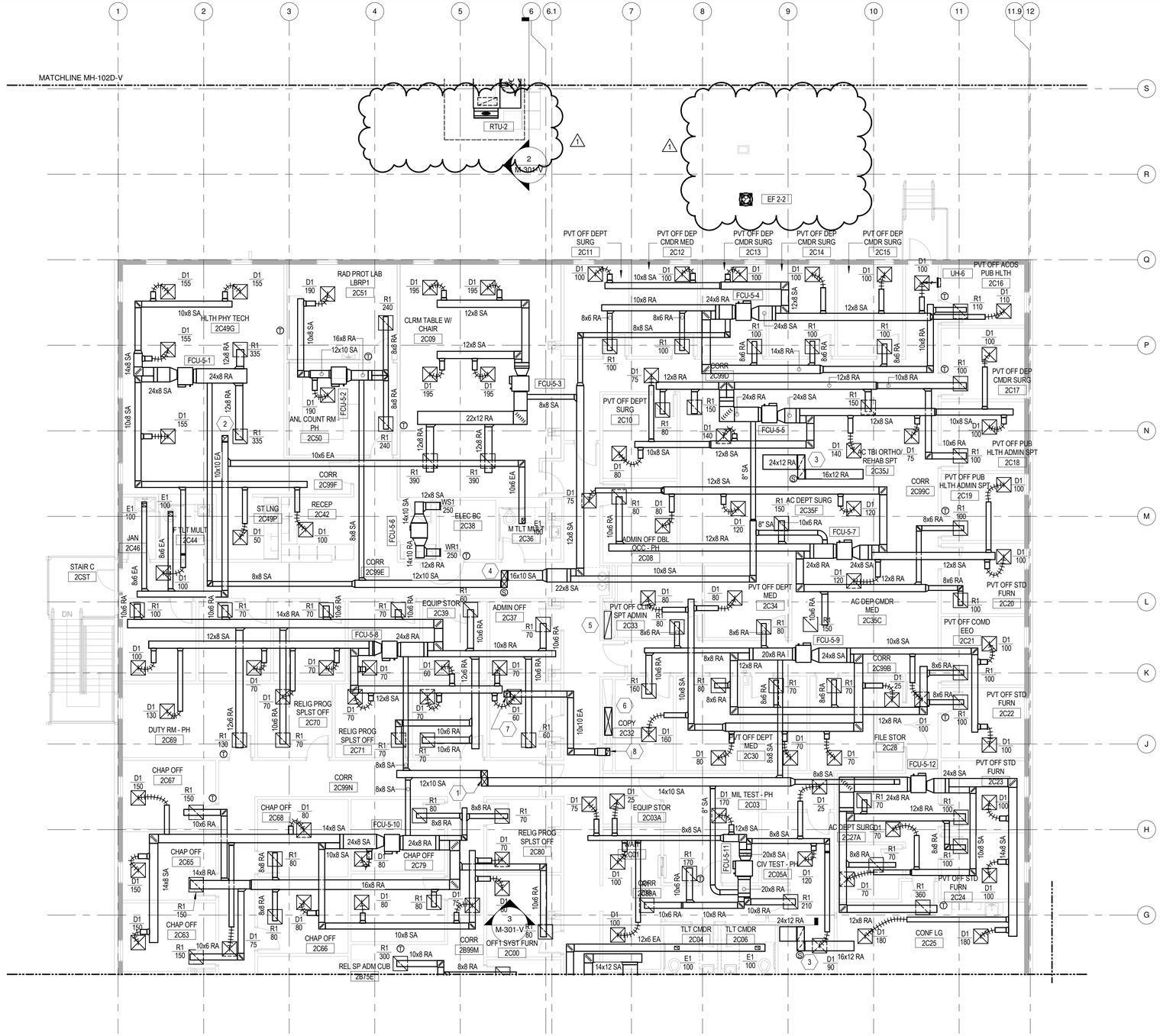

1 LEVEL 2 P125 - AREA C - HVAC

1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0"

GENERAL NOTES:

A. COORDINATE DUCT PENATRATION, LOCATION AND EQUIPMENT ACCESS PRIOR TO INSTALLATION.

B. DUCT/FLEX CONNECT TO SUPPLY AIR DEVICE SHALL BE SAME SIZE AS NECK CONNECTION AND LIMITED TO SIX FEET.

C. UNLESS SHOWN DIFFERENTLY, SIZE ALL SUPPLY DUCT DOWNSTREAM OF AIR TERMINAL UNITS, RETURN AND EXHAUST DUCT BRANCHES AND LOW PRESSURE DUCTS AT 0.08 IN WG/ 100 FEET.

D. PROVIDE BALANCING DAMPER FOR ALL BRANCH DUCT TAKE OFF.

KEYED NOTES:

1 26x10 SA UP.
2 10x10 EA UP TO EF-3-5.
3 40x12 RA UP.
4 28x10 SA UP.
5 46x12 RA UP & DN.
6 46x12 SA UP & DN.
7 10x10 EA UP TO EF-3-1.
8 12x6 EA DN.

SYM	DESCRIPTION	DATE
1	BID OPTION	11/04/15
	FINAL CORRECTED SET	03/26/14
	100% FINAL DESIGN SUBMISSION	02/14/14
	65% VE SUBMISSION	11/25/13
	65% SUBMITTAL	04/26/13
	35% SUBMITTAL	03/08/13
	20% SUBMITTAL	01/18/13

NAVFAC

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SUITE 400
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703-518-8500

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE

DES CS DRW VV CHK DL
PM/DM CHEMENJU/HILL
BRANCH MANAGER N/A
CHIEF ENG/ARCH TOM COX

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
COMPONENT NAME
NAVAL FACILITIES ENGINEERING COMMAND ~ AGENCY
BASE : CITY : STATE
BETHESDA, MD
PROJECT STATION/INSTALLATION
P125 - TEMPORARY MEDICAL FACILITIES
PACKAGE 2 - CLINIC BUILDING
MECHANICAL - FLOOR PLAN - SECOND FLOOR AREA C

SCALE: 1/8" = 1'-0"
EPROJECT NO.: 1151333
CONSTR. CONTR. NO. N62470-09-D-9044
NAVFAC DRAWING NO. 13066022
SHEET OF 0

MH-102C-V

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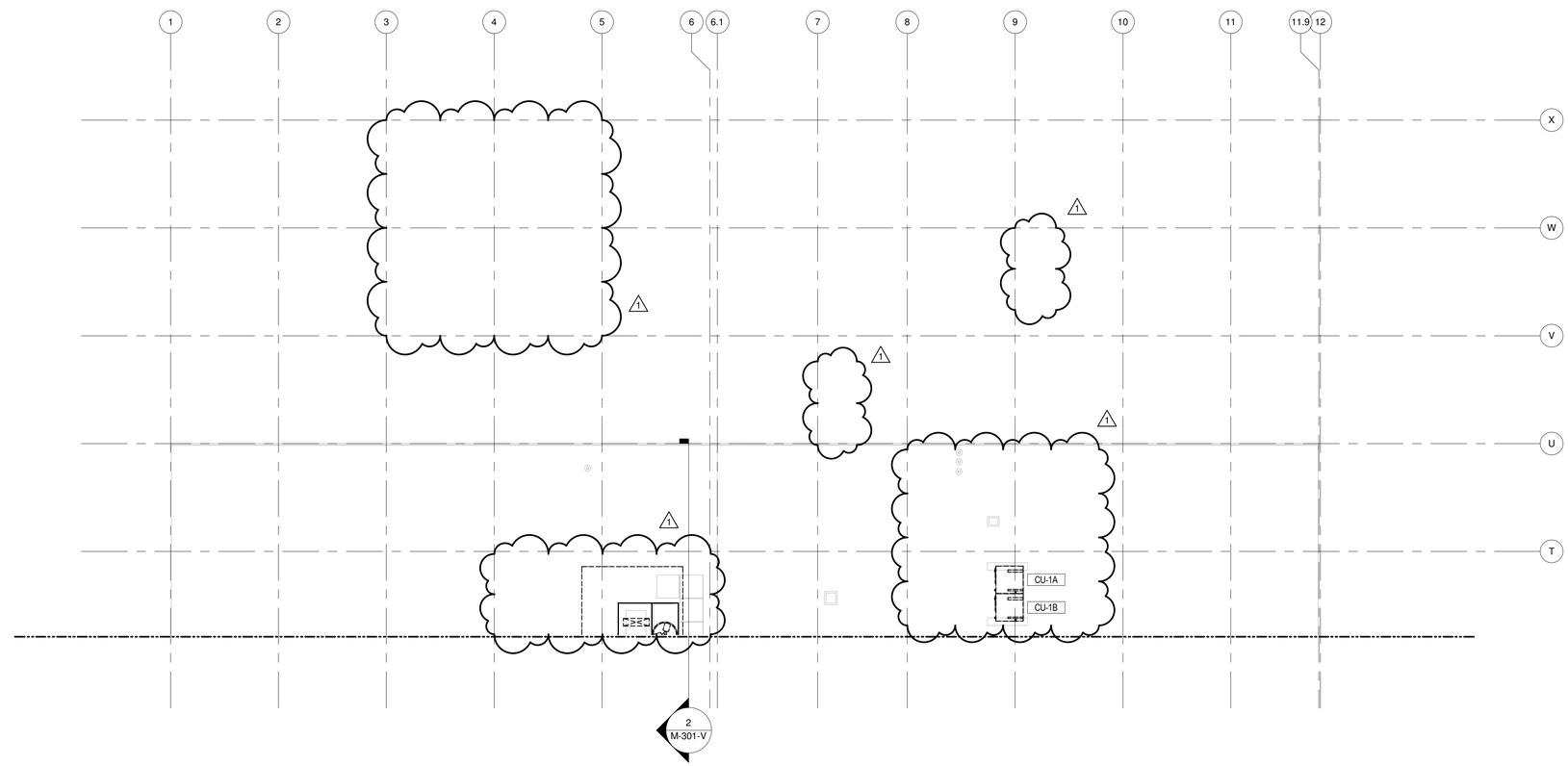
KEY PLAN

GENERAL NOTES:

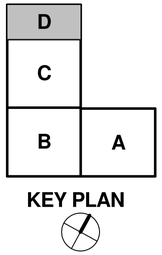
A. COORDINATE DUCT PENATRATION, LOCATION AND EQUIPMENT ACCESS PRIOR TO INSTALLATION.
B. UNLESS SHOWN DIFFERENTLY, SIZE ALL SUPPLY DUCT DOWNSTREAM OF AIR TERMINAL UNITS, RETURN AND EXHAUST DUCT BRANCHES AND LOW PRESSURE DUCTS AT 0.08 IN WG/ 100 FEET.
C. DUCT WORK SHALL BE MINMIMUM 12 INCHES ABOVE ROOF LEVEL.
D. PROVIDE DUCT SUPPORT FOR DUCTWORK ABOVE ROOF.

KEYED NOTES:



1 LEVEL 2 P125 - AREA D - HVAC
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0"



KEY PLAN

SYM	DESCRIPTION	DATE
1	BID OPTION	11/04/15
	FINAL CORRECTED SET	03/26/14
	100% FINAL DESIGN SUBMISSION	02/14/14
	65% VE SUBMISSION	11/25/13
	65% SUBMITTAL	04/26/13
	35% SUBMITTAL	03/08/13
	20% SUBMITTAL	01/18/13

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APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE

DES CS DRW VV CHK DL
PM/DM CHEMENJU/HILL
BRANCH MANAGER N/A
CHIEF ENG/ARCH TOM COX

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
COMPONENT NAME
NAVAL FACILITIES ENGINEERING COMMAND ~ AGENCY
BASE - CITY - STATE
PROJECT STATION/INSTALLATION
BETHESDA, MD
P125 - TEMPORARY MEDICAL FACILITIES
PACKAGE 2 - CLINIC BUILDING
MECHANICAL - FLOOR PLAN - SECOND FLOOR AREA D

SCALE: 1/8" = 1'-0"
EPROJECT NO.: 1151333
CONSTR. CONTR. NO. N62470-09-D-9044
NAVFAC DRAWING NO. 13066023
SHEET OF 0

MH-102D-V

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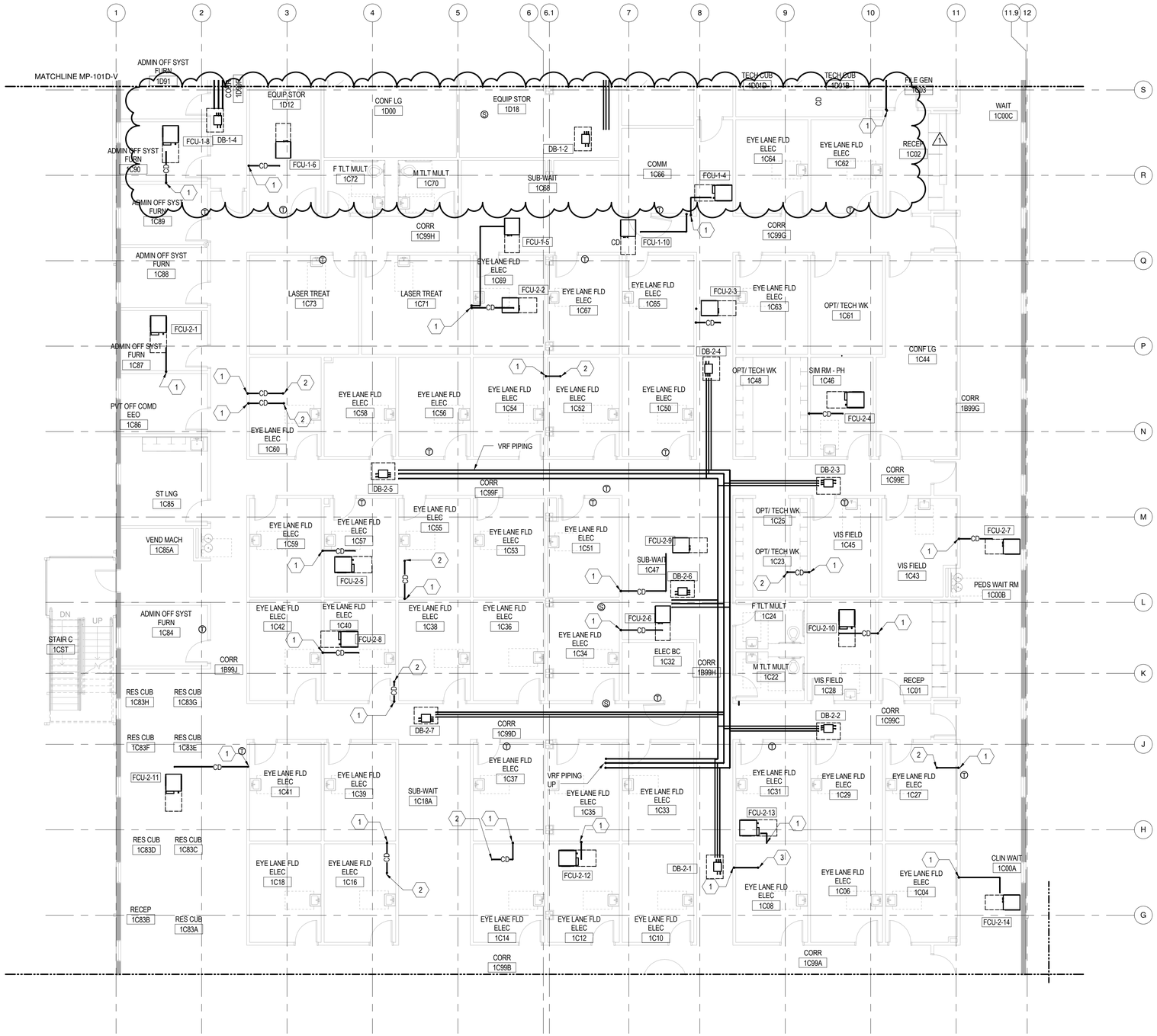

1 LEVEL 1 P125 - AREA C HVAC PIPING

1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0"

GENERAL NOTES:

A. COORDINATE LOCATION AND EQUIPMENT ACCESS PRIOR TO INSTALLATION.

B. ALL PIPING SIZE AND ROUTING, AND DISTRIBUTION BOX CAPACITY ASSOCIATED TO VARIABLE REFRIGERANT FLOW (VRF) SYSTEM SHALL BE SIZED AND PROVIDED BY MANUFACTURER.

C. UNLESS OTHERWISE NOTE, ALL FCU CONDENSATE PIPING SHALL BE 3/4" AND DISCHRGE ON GRADE.

KEYED NOTES:

1 CONDENSATE DRAIN DN AND DISCHARGE ABOVE GRADE.

2 CONDENSATE DRAIN UP.

3 CONDENSATE DRAIN DN.

SYM	DESCRIPTION	DATE
1	BID OPTION	11/04/15
	FINAL CORRECTED SET	03/26/14
	100% FINAL DESIGN SUBMISSION	02/14/14
	65% VE SUBMISSION	11/25/13

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COMMONWEALTH OF VIRGINIA
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703-518-8500

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES	CS	DRW	VV	CHK	DL

PMDM CHEMENJU/HILL

BRANCH MANAGER N/A

CHIEF ENG/ARCH TOM COX

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
COMPONENT NAME
NAVAL FACILITIES ENGINEERING COMMAND – AGENCY
BASE - CITY, STATE
BETHESDA, MD
PROJECT STATION/INSTALLATION
P125 - TEMPORARY MEDICAL FACILITIES
PACKAGE 2 - CLINIC BUILDING
MECHANICAL PIPING - FLOOR PLAN - FIRST FLOOR AREA C

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

EPROJECT NO.: 1151333

CONSTR. CONTR. NO. N62470-09-D-9044

NAVFAC DRAWING NO. 13066029

SHEET OF 0

MP-101C-V

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KEY PLAN

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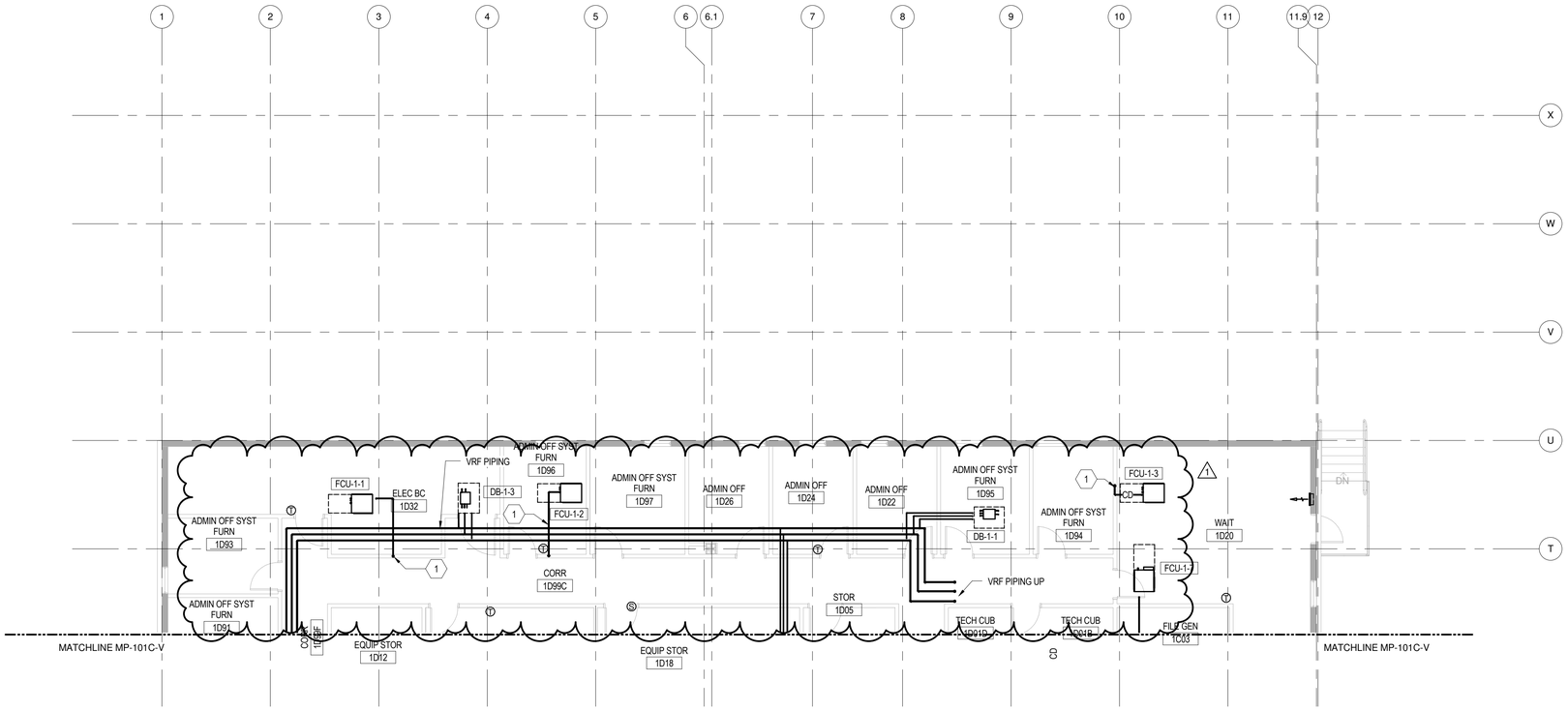
GENERAL NOTES:

A. COORDINATE LOCATION AND EQUIPMENT ACCESS PRIOR TO INSTALLATION.
B. ALL PIPING SIZE AND ROUTING, AND DISTRIBUTION BOX CAPACITY ASSOCIATED TO VARIABLE REFRIGERANT FLOW (VRF) SYSTEM SHALL BE SIZED AND PROVIDED BY MANUFACTURER.
C. UNLESS OTHERWISE NOTE, ALL FCU CONDENSATE PIPING SHALL BE 3/4" AND DISCHRGE ON GRADE.

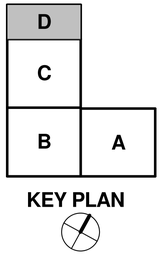
KEYED NOTES:

1 CONDENSATE DRAIN DN AND DISCHARGE ABOVE GRADE.



1 LEVEL 1 P 125 - AREA D - HVAC PIPING
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0"



SYM	DESCRIPTION	DATE
1	BID OPTION	11/04/15
	FINAL CORRECTED SET	03/26/14
	100% FINAL DESIGN SUBMISSION	02/14/14
	65% VE SUBMISSION	11/25/13

NAVFAC

COMMONWEALTH OF VIRGINIA
SOPHEAP CHAN
Lic. No. 0402042516
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PROFESSIONAL ENGINEER

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1101 KING STREET
SUITE 400
ALEXANDRIA, VIRGINIA 22314
703-518-8500

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE

DES CS DRW VV CHK DL
PM/DM CHEMENJU/HILL
BRANCH MANAGER N/A
CHIEF ENG/ARCH TOM COX

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
COMPONENT NAME: NAVAL FACILITIES ENGINEERING COMMAND ~ AGENCY
BASE - CITY STATE
PROJECT STATION/INSTALLATION
BETHESDA, MD
P125 - TEMPORARY MEDICAL FACILITIES
PACKAGE 2 - CLINIC BUILDING
MECHANICAL PIPING - FLOOR PLAN - FIRST FLOOR AREA D

SCALE: 1/8" = 1'-0"
EPROJECT NO.: 1151333
CONSTR. CONTR. NO. N62470-09-D-9044
NAVFAC DRAWING NO. 13066030
SHEET 0 OF 0

MP-101D-V

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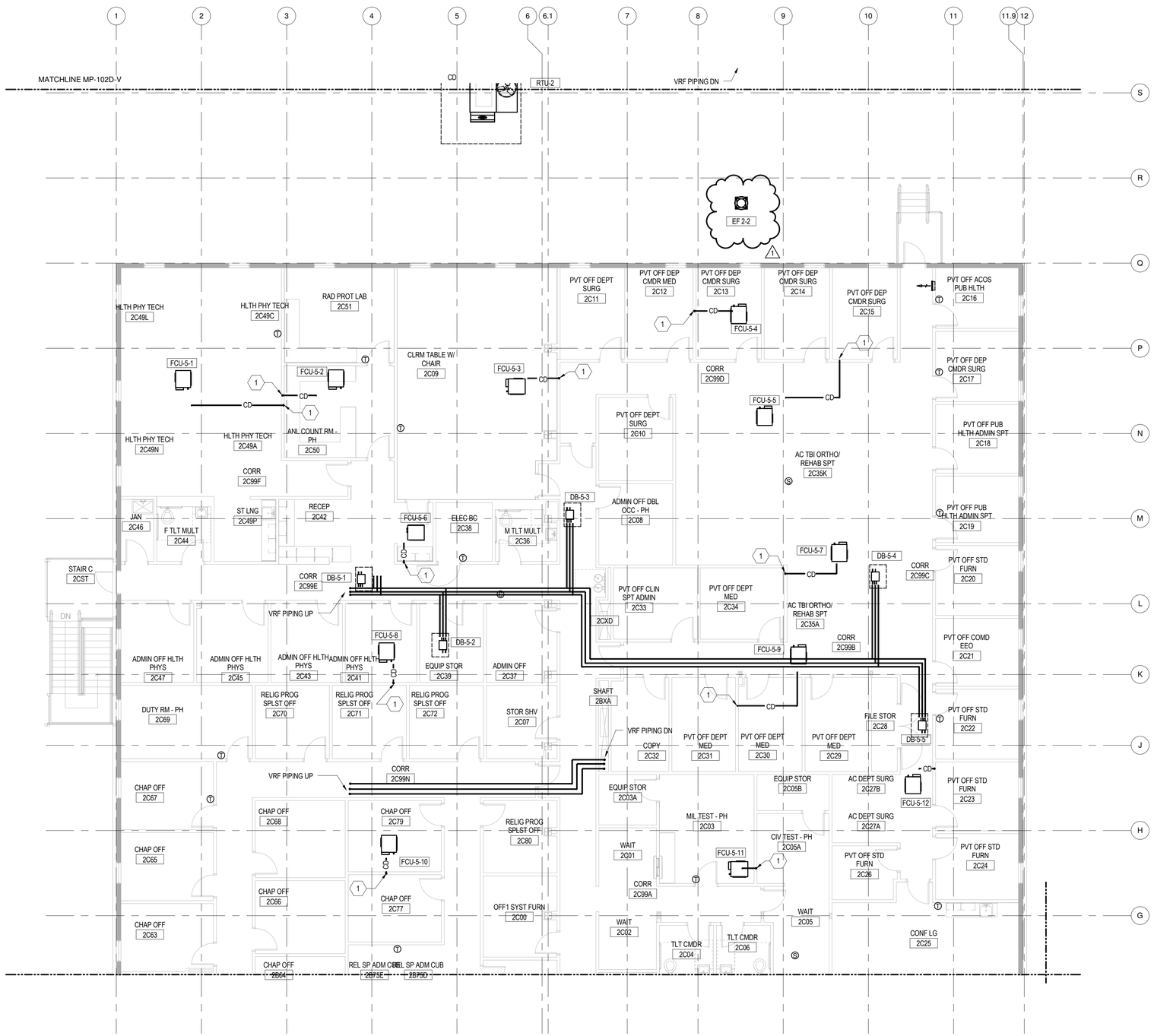

1 LEVEL 2 P125 - AREA C - HVAC PIPING

1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0"

GENERAL NOTES:

A. COORDINATE LOCATION AND EQUIPMENT ACCESS PRIOR TO INSTALLATION.
B. ALL PIPING SIZE AND ROUTING, AND DISTRIBUTION BOX CAPACITY ASSOCIATED TO VARIABLE REFRIGERANT FLOW (VRF) SYSTEM SHALL BE SIZED AND PROVIDED BY MANUFACTURER.
C. UNLESS OTHERWISE NOTE, ALL FCU CONDENSATE PIPING SHALL BE 3/4" AND DISCHRGE ON GRADE.
D. ALL RTU CONDENSATE SHALL BE 1-1/2".

KEYED NOTES:

1 CONDENSATE DRAIN DN.

SYM	DESCRIPTION	DATE
1	BID OPTION	11/04/15
	FINAL CORRECTED SET	03/26/14
	100% FINAL DESIGN SUBMISSION	02/14/14
	65% VE SUBMISSION	11/25/13

NAVFAC

COMMONWEALTH OF VIRGINIA
SOPHEAP CHAN
Lic. No. 0402042516
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PROFESSIONAL ENGINEER

HDR
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1101 KING STREET
SUITE 400
ALEXANDRIA, VIRGINIA 22314
703-518-8500

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE

DES CS DRW VV CHK DL
PMDM CHEMENJU/HILL
BRANCH MANAGER N/A
CHIEF ENG/ARCH TOM COX

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
COMPONENT NAME
NAVAL FACILITIES ENGINEERING COMMAND – AGENCY
BASE - CITY, STATE
BETHESDA, MD
PROJECT STATION/INSTALLATION
P125 - TEMPORARY MEDICAL FACILITIES
PACKAGE 2 - CLINIC BUILDING
MECHANICAL PIPING - FLOOR PLAN - SECOND FLOOR AREA C

SCALE: 1/8" = 1'-0"
EPROJECT NO.: 1151333
CONSTR. CONTR. NO. N62470-09-D-9044
NAVFAC DRAWING NO. 13066033
SHEET OF 0
MP-102C-V

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KEY PLAN

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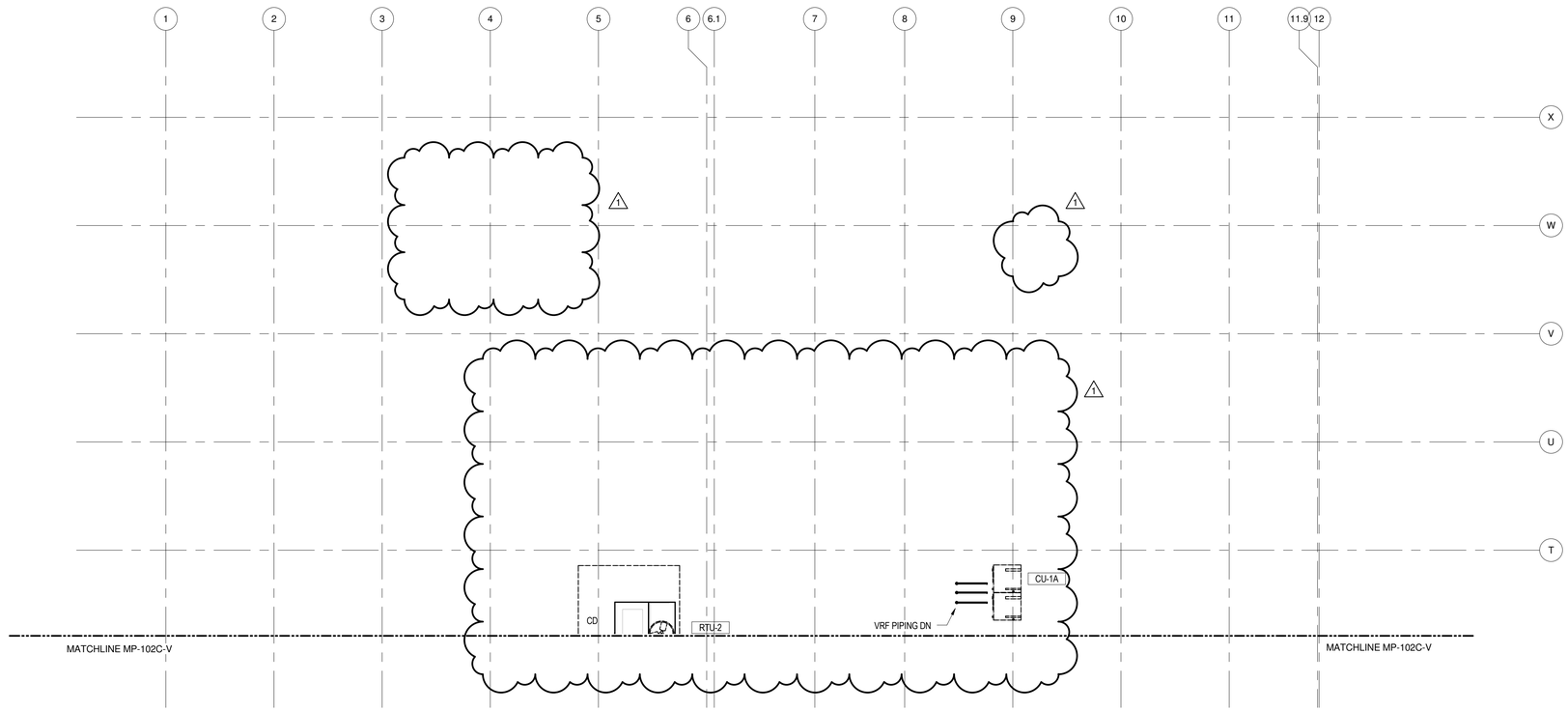
GENERAL NOTES:

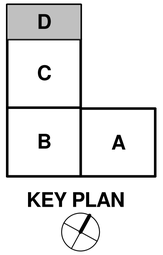
A. COORDINATE LOCATION AND EQUIPMENT ACCESS PRIOR TO INSTALLATION.
B. ALL PIPING SIZE AND ROUTING, AND DISTRIBUTION BOX CAPACITY ASSOCIATED TO VARIABLE REFRIGERANT FLOW (VRF) SYSTEM SHALL BE SIZED AND PROVIDED BY MANUFACTURER.
C. UNLESS OTHERWISE NOTE, ALL FCU CONDENSATE PIPING SHALL BE 3/4" AND DISCHRGE ON GRADE.
D. ALL RTU CONDENSATE SHALL BE 1-1/2".

KEYED NOTES:



1 LEVEL 2 P125 - AREA D - HVAC PIPING
1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0"



SYM	DESCRIPTION	DATE
1	BID OPTION	11/04/15
	FINAL CORRECTED SET	03/26/14
	100% FINAL DESIGN SUBMISSION	02/14/14
	65% VE SUBMISSION	11/25/13

NAVFAC

COMMONWEALTH OF VIRGINIA
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Lic. No. 0402042516
11/4/15
PROFESSIONAL ENGINEER

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1101 KING STREET
SUITE 400
ALEXANDRIA, VIRGINIA 22314
703-518-8500

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE

DES	CS	DRW	VV
CHK	DL		
PM/DM	CHEMENJU/HILL		
BRANCH MANAGER	N/A		
CHIEF ENG/ARCH	TOM COX		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
COMPONENT NAME
NAVAL FACILITIES ENGINEERING COMMAND ~ AGENCY
BASE - CITY, STATE
BETHESDA, MD
PROJECT STATION/INSTALLATION
P125 - TEMPORARY MEDICAL FACILITIES
PACKAGE 2 - CLINIC BUILDING
MECHANICAL PIPING - FLOOR PLAN - SECOND FLOOR AREA D

SCALE: 1/8" = 1'-0"
EPROJECT NO.: 1151333
CONSTR. CONTR. NO. N62470-09-D-9044
NAVFAC DRAWING NO. 13066034
SHEET OF 0

MP-102D-V

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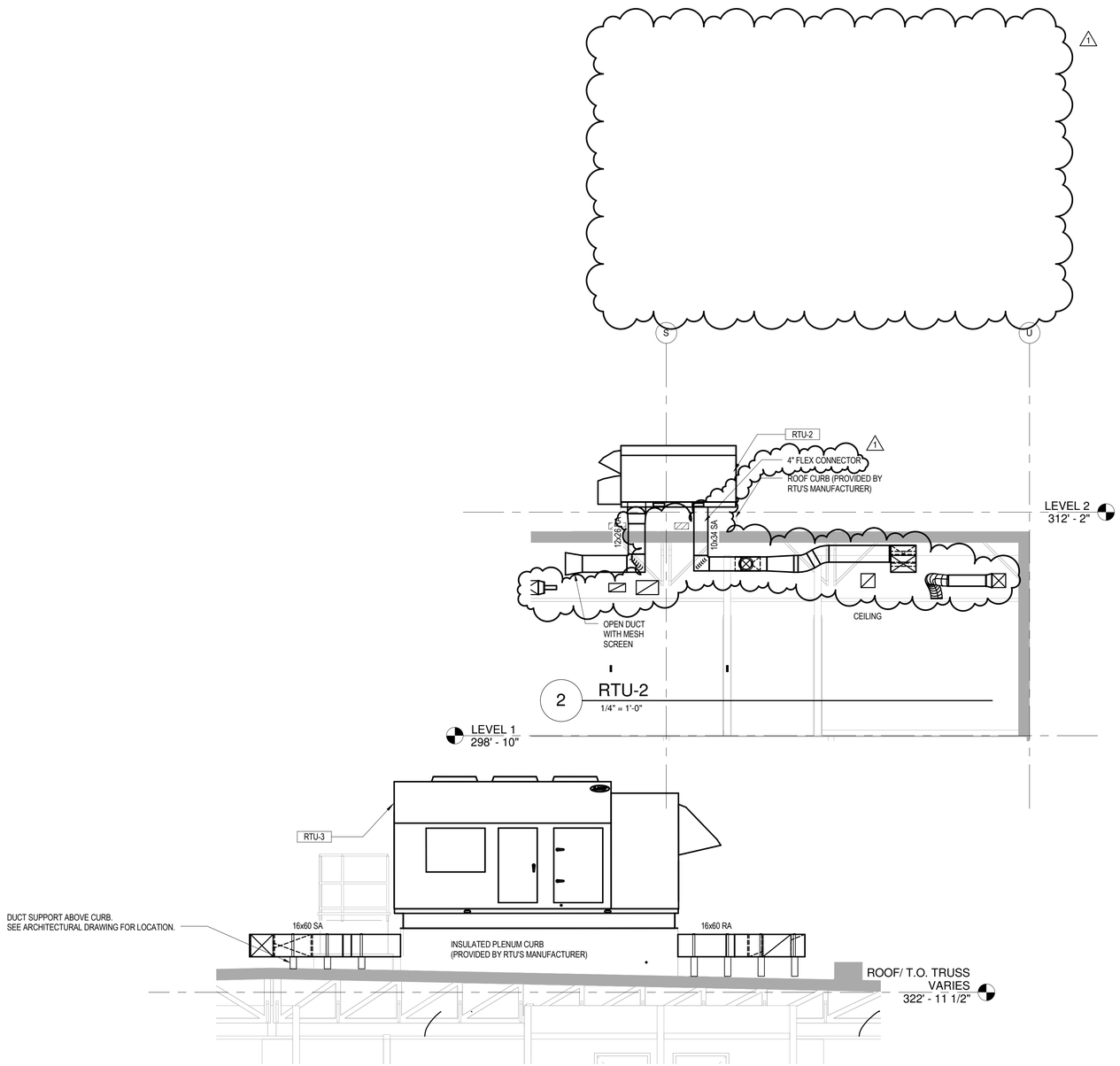

SYM	DESCRIPTION	DATE
1	BID OPTION	11/04/15
	FINAL CORRECTED SET	03/26/14
	100% FINAL DESIGN SUBMISSION	02/14/14

NAVFAC

COMMONWEALTH OF VIRGINIA
SOPHEAP CHAN
Lic. No. 0402042516
11/4/15
PROFESSIONAL ENGINEER

HDR

ARCHITECTURE | ENGINEERING & CONSULTING

1101 KING STREET
SUITE 400
ALEXANDRIA, VIRGINIA 22314
703-518-8500

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES	CS	DRW	VV	CHK	DL
PMDM	CHEMENJU/HILL				
BRANCH MANAGER	N/A				
CHIEF ENG/ARCH	TOM COX				

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
COMPONENT NAME
NAVAL FACILITIES ENGINEERING COMMAND – AGENCY
BASE, CITY, STATE
BETHESDA, MD
PROJECT STATION/INSTALLATION
P125 - TEMPORARY MEDICAL FACILITIES
PACKAGE 2 - CLINIC BUILDING

MECHANICAL SECTIONS

SCALE: 1/4" = 1'-0"
EPROJECT NO.: 1151333
CONSTR. CONTR. NO. N62470-09-D-9044
NAVFAC DRAWING NO. 13066038
SHEET OF 0

M-301-V

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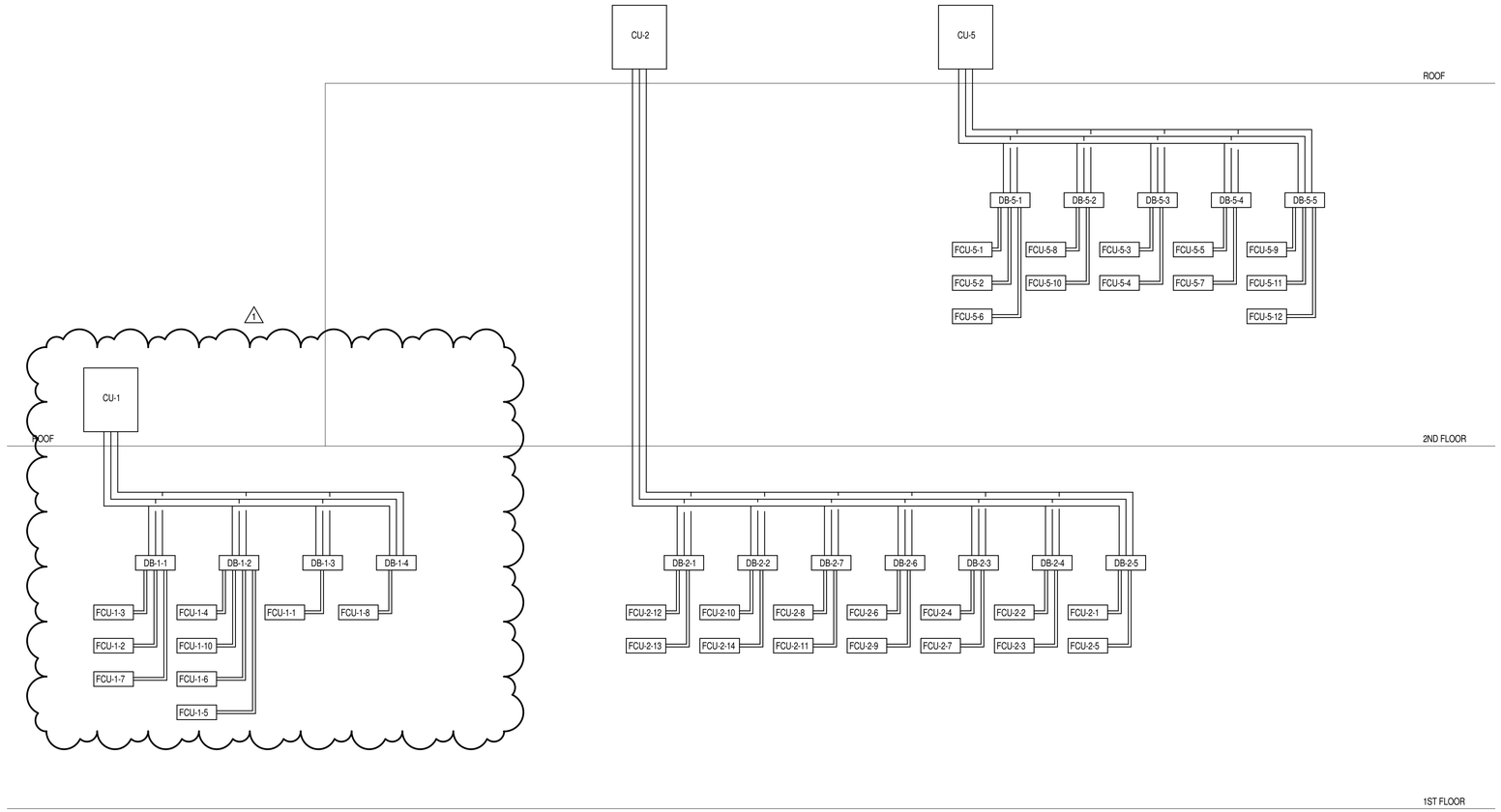

VRF SYSTEM RISER DIAGRAM (CU-1 , CU-2 AND CU-5)

SYM	DESCRIPTION	DATE
1	BID OPTION	11/04/15
	FINAL CORRECTED SET	03/26/14

NAVFAC

COMMONWEALTH OF VIRGINIA
SOPHEAP CHAN
Lic. No. 0402042516
11/4/15
PROFESSIONAL ENGINEER

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1101 KING STREET
SUITE 400
ALEXANDRIA, VIRGINIA 22314
703-518-8500

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES	CS	DRW VV	CHK DL
PM/DM	CHEMENJU/HILL		
BRANCH MANAGER	N/A		
CHIEF ENG/ARCH	TOM COX		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ AGENCY
COMPONENT NAME
NAVAL FACILITIES ENGINEERING COMMAND
BASE : CITY : STATE
PROJECT STATION/INSTALLATION
BETHESDA, MD
P125 - TEMPORARY MEDICAL FACILITIES
PACKAGE 2 - CLINIC BUILDING
MECHANICAL - VRF SYSTEM RISER DIAGRAM

SCALE: 12" = 1'-0"
EPROJECT NO.: 1151333
CONSTR. CONTR. NO. N62470-09-D-9044
NAVFAC DRAWING NO. 13066041
SHEET OF 0

M-402-V

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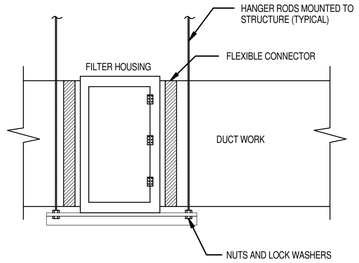
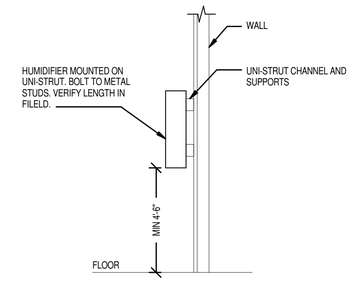


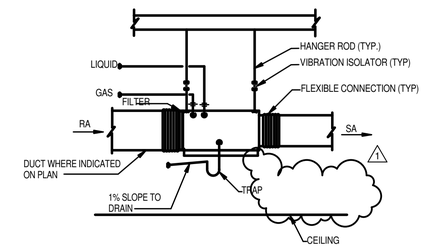
NOTE : 1. INSTALL EQUIPMENT WITH PROPER SERVICE AND CLEARANCE PER MANUFACTURER'S REQUIREMENT.

J FINAL FILTER HOUSING MOUNTING DETAIL
SCALE: N.T.S.

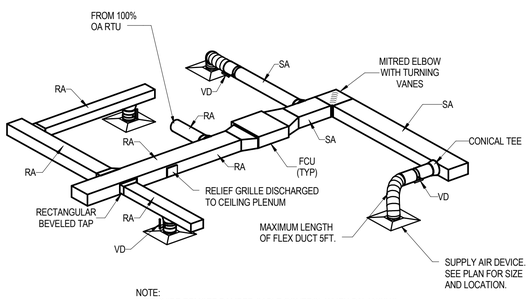
K NOT USED
SCALE: N.T.S.



L HUMIDIFIER MOUNTING DETAIL
SCALE: N.T.S.



M FAN COIL INSTALLATION DETAIL
SCALE: N.T.S.



NOTE:
1. PROVIDE REMOTE DAMPER CABLE CONTROL WHEN BALANCING DAMPER IS NOT ACCESSIBLE THROUGH CEILING. MAXIMUM LENGTH 8FT.
2. PROVIDE SECONDARY DRIP PAN WITH WATER SENSOR. SHUT DOWN UNIT IF SENSOR DETECTS WATER. PROVIDE ALARM AT CONTROL PANEL FOR VVR SYSTEM.

N TYPICAL FAN COIL UNIT
SCALE: N.T.S.

SYM	DESCRIPTION	DATE
1	BID OPTION	11/04/15
	FINAL CORRECTED SET	03/26/14
	100% FINAL DESIGN SUBMISSION	02/14/14
	65% VE SUBMISSION	11/25/13
	65% SUBMITTAL	04/26/13

NAVFAC

COMMONWEALTH OF VIRGINIA
SOPHEAP CHAN
Lic. No. 0402042516
11/4/15
PROFESSIONAL ENGINEER

HDR
ARCHITECTURE | ENGINEERING & CONSULTING
1101 KING STREET
SUITE 400
ALEXANDRIA, VIRGINIA 22314
703-518-8500

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE

DES	CS	DRW VV	CHK DL
PM/DM	CHEMENJU/HILL		
BRANCH MANAGER	N/A		
CHIEF ENG/ARCH	TOM COX		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
COMPONENT NAME:
NAVAL FACILITIES ENGINEERING COMMAND ~ AGENCY
BASE - CITY, STATE
PROJECT STATION/INSTALLATION
BETHESDA, MD
P125 - TEMPORARY MEDICAL FACILITIES
PACKAGE 2 - CLINIC BUILDING
MECHANICAL DETAILS

SCALE: 12" = 1'-0"
EPROJECT NO.: 1151333
CONSTR. CONTR. NO. N62470-09-D-9044
NAVFAC DRAWING NO. 13066043
SHEET OF 0

M-502-V

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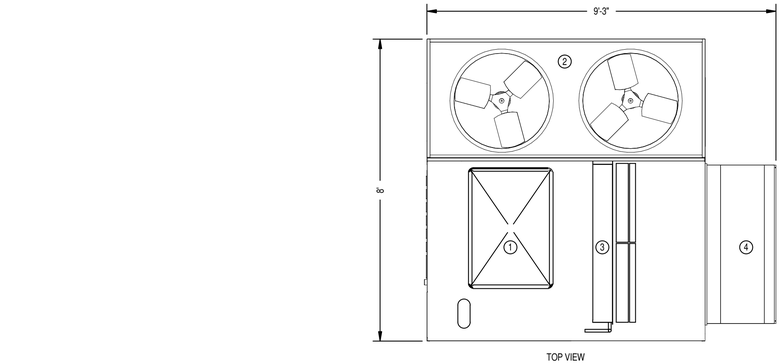
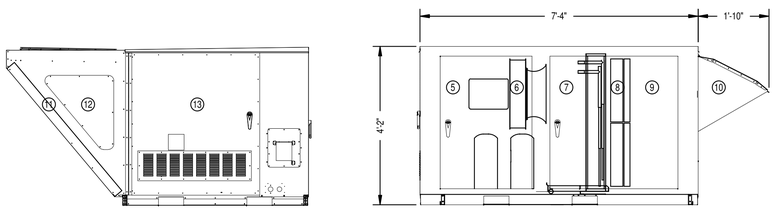


TOP VIEW



RIGHT SIDE VIEW

FRONT VIEW

1. BOTTOM SUPPLY AIR OUTLET
2. CONDENSER SECTION
3. DX COOLING COIL
4. OUTSIDE AIR HOOD
5. SUPPLY FAN ACCESS PANEL
6. SUPPLY FAN
7. COIL ACCESS PANEL
8. MERV 8 FILTER
9. FILTER ACCESS PANEL
10. OUTSIDE AIR INLET WITH MOTORIZED DAMPER
11. CONDENSER COIL
12. CONDENSER COIL ACCESS PANELL
13. CONTROLS ACCESS PANEL

2 RTU-2 DETAIL

SCALE: N.T.S.

NOTES:

1. ALL DIMENSIONS ARE IN INCHES.
2. PROVIDE BIRDSCREEN ON INTAKE AIR INLET AND RELIEF AIR OUTLET.
3. PROVIDE DOUBLE SLOPED STAINLESS STEEL, IAQ TYPE CONDENSATE DRAIN PAN.
4. OA DAMPER SHALL BE FULLY MODULATING TYPE.
5. RA DAMPER SHALL BE FULLY MODULATING TYPE.

SYM	DESCRIPTION	DATE
1	BID OPTION	11/04/15
	FINAL CORRECTED SET	03/26/14
	100% FINAL DESIGN SUBMISSION	02/14/14
	65% VE SUBMISSION	11/25/13
	65% SUBMITTAL	04/26/13

NAVFAC

COMMONWEALTH OF VIRGINIA
SOPHEAP CHAN
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PROFESSIONAL ENGINEER

HDR
ARCHITECTURE | ENGINEERING & CONSULTING
1101 KING STREET
SUITE 400
ALEXANDRIA, VIRGINIA 22314
703-518-8500

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
SATISFACTORY TO DATE

DES	CS	DRW	VV	CHK	DL
PM/DM	CHEMENJU/HILL				
BRANCH MANAGER	N/A				
CHIEF ENG/ARCH	TOM COX				

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ AGENCY
COMPONENT NAME: NAVAL FACILITIES ENGINEERING COMMAND
BASE - CITY, STATE: BETHESDA, MD
PROJECT STATION/INSTALLATION
P125 - TEMPORARY MEDICAL FACILITIES
PACKAGE 2 - CLINIC BUILDING
MECHANICAL DETAILS

SCALE: 1/2" = 1'-0"
EPROJECT NO: 1151333
CONSTR. CONTR. NO. N62470-09-D-9044
NAVFAC DRAWING NO. 13066044
SHEET OF 0

M-503-V

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ROOFTOP UNIT SCHEDULE

MARK NO	LOCATION	SUPPLY AIR CFM	OUTDOOR AIR CFM	SUPPLY FAN ESP	SUPPLY FAN HP	COOLING DATA EAT DB	EAT WB	LAT DB	LAT WB	TOTAL MBH	SENSIBLE MBH	HEATING DATA EAT DB	LAT DB	CAPACITY KW	ELECTRICAL VOLT	PH	HZ	FLA	REMARKS	WEIGHT LBS	BASIS OF DESIGN OR APPROVED EQUAL
RTU-2	ROOF	900	900	2.0	1	95	76	54.11	53.91	68.5	37.1	10	81.8	20.0	480	3	60	28	NOTE 1, 2, 3, 4, 5, 6	840	AAON-RN
RTU-3	ROOF	8500	8500	2.5	10	95	76	53.73	53.33	602.5	382.0	10	84.3	200.0	480	3	60	255	NOTE 1, 2, 3, 4, 5, 6	5700	AAON-RN
RTU-4	ROOF	8950	8950	2.6	10	95	76	54.13	53.93	625.3	377.5	10	80.6	200.0	480	3	60	255	NOTE 1, 2, 3, 4, 5, 6	5920	AAON-RN

NOTES:
1. VARIABLE FREQUENCY DRIVE AND H/OA SWITCH
2. MARINE LIGHT (120 V): SERVICE OUTLET
3. SINGLEPOINT OF CONNECTION
4. ESP INCLUDING 0.65 INCH WG DIRTY FILTER ALLOWANCE
5. CONTROLS SHALL BE FACTORY INSTALLED
6. HOT GAS BY PASS

AIR TERMINAL UNIT SCHEDULES

MARK NUMBER	SERVING	DESIGN AIRFLOW (CFM)	MIN FLOW (CFM)	INLET DIA (IN)	MAX AIR PD (IN)	ELECTRIC HEAT DATA CFM	EAT (°F)	LAT (°F)	KW	V/PH/HZ	BASIS OF DESIGN	NOTE
VAV-1-01	1D31-SUB STER	180	120	6	0.11	120	55	94.5	1.5	277/1/60	TITUS DESV	1, 2, 3, 4, 5
VAV-1-02	1D25-LASIK	600	460	10	0.20	460	55	89.3	5.0	480/3/60	TITUS DESV	1, 2, 3, 4, 5
VAV-1-03	1D29-LASIK	700	560	10	0.28	560	55	83.2	5.0	480/3/60	TITUS DESV	1, 2, 3, 4, 5
VAV-1-04	1D25-TREAT-PH	370	300	8	0.16	300	55	86.6	3.0	277/1/60	TITUS DESV	1, 2, 3, 4, 5

NOTES:
1. AIR FLOW PROVING SWITCH.
2. DOOR INTERLOCK DISCONNECT SWITCH.
3. SCR CONTROLLER FOR HEAT.
4. STATIC PRESSURE SCHEDULED INCLUDING HEATING COIL.
5. HIGH TEMPERATURE LIMIT SWITCH.

ELECTRIC UNIT HEATER SCHEDULE

MARK NUMBER	LOCATION	TYPE	HORIZONTAL THROW (FT)	HEATING KW	ELECTRICAL DATA VOLT	PH	HZ	BASIS OF DESIGN	NOTE
UH-1	ENTRANCE	ELEC	-	3	277	1	60	TRANE UHWA	1, 2, 3
UH-2	ENTRANCE	ELEC	-	3	277	1	60	TRANE UHWA	1, 2, 3
UH-3	ENTRANCE	ELEC	-	3	277	1	60	TRANE UHWA	1, 2, 3
UH-4	ENTRANCE	ELEC	-	3	277	1	60	TRANE UHWA	1, 2, 3
UH-5	ENTRANCE	ELEC	-	3	277	1	60	TRANE UHWA	1, 2, 3
UH-6	ENTRANCE	ELEC	-	3	277	1	60	TRANE UHWA	1, 2, 3

NOTES:
1. HEATING ELEMENT TO BE CONTROLLED WITH BUILT-IN THERMOSTAT SET AT 60°F (ADJUSTABLE.)
2. UNIT MOUNTED MOTOR DISCONNECT SWITCH.
3. SEMI-RECESS FIT IN 4 INCHES WALL

SYM	DESCRIPTION	DATE
1	BID OPTION	11/04/15
	FINAL CORRECTED SET	03/26/14
	100% FINAL DESIGN SUBMISSION	02/14/14
	65% VE SUBMISSION	11/25/13
	65% SUBMITTAL	04/26/13
	35% SUBMITTAL	03/08/13

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SATISFACTORY TO DATE

DES CS | DRW VV | CHK DL
PM/DM CHEMENJU/HILL
BRANCH MANAGER N/A
CHIEF ENG/ARCH TOM COX

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
COMPONENT NAME
NAVAL FACILITIES ENGINEERING COMMAND ~ AGENCY
BASE - CITY, STATE
BETHESDA, MD
PROJECT STATION/INSTALLATION
P125 - TEMPORARY MEDICAL FACILITIES
PACKAGE 2 - CLINIC BUILDING
MECHANICAL SCHEDULES

SCALE: 1/8" = 1'-0"
EPROJECT NO.: 1151333
CONSTR. CONTR. NO. N62470-09-D-9044
NAVFAC DRAWING NO. 13066046
SHEET OF 0

M-601-V

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AIR DEVICE SCHEDULES

MARK NUMBER	SERVICE	TYPE	AIR FLOW (CFM)	MODULE SIZE (IN)	NECK SIZE (IN)	MAX STATIC (IN. WG)	MAX NC	MATERIAL	FINISH	BASIS OF DESIGN	NOTE
D1	SUPPLY	DIFFUSER	0-155	24X24	6Ø	0.15	30	STEEL	WHITE	TITUS TDC	1, 2
	SUPPLY	DIFFUSER	156-300	24X24	8Ø	0.15	30	STEEL	WHITE	TITUS TDC	1, 2
	SUPPLY	DIFFUSER	301-400	24X24	10Ø	0.15	30	STEEL	WHITE	TITUS TDC	1, 2
D2	SUPPLY	DIFFUSER	0-250	24X24	8Ø	0.6	30	STEEL	WHITE	ANEMOSTAT HCRF	1, 3, 4
	SUPPLY	DIFFUSER	251-350	24X24	10Ø	0.75	30	STEEL	WHITE	ANEMOSTAT HCRF	1, 3, 4
WS1	SUPPLY	REGISTER	0-250	10x6		0.10	30	STEEL	WHITE	TITUS 272RS	1, 2
	SUPPLY	REGISTER	251-400	12x10		0.10	30	STEEL	WHITE	TITUS 272RS	1, 2
	SUPPLY	REGISTER	401-950	24x10		0.10	30	STEEL	WHITE	TITUS 272RS	1, 2
	SUPPLY	REGISTER	951-1800	24x12		0.15	35	STEEL	WHITE	TITUS 272RS	1, 2
R1	RET/EXH	PERFORATED	0-175	24x24	6x6	0.10	30	STEEL	WHITE	TITUS PDR	1, 2
	RET/EXH	PERFORATED	176-250	24x24	8x8	0.10	30	STEEL	WHITE	TITUS PDR	1, 2
	RET/EXH	PERFORATED	251-420	24x24	10x10	0.10	30	STEEL	WHITE	TITUS PDR	1, 2
	RET/EXH	PERFORATED	421-600	24x24	12x12	0.10	30	STEEL	WHITE	TITUS PDR	1, 2
	RET/EXH	PERFORATED	601-1350	24x24	18x18	0.10	30	STEEL	WHITE	TITUS PDR	1, 2
	RET/EXH	PERFORATED	1351-2100	24x24	22x22	0.20	35	STEEL	WHITE	TITUS PDR	1, 2
WR1	RET/EXH	GRILLE	0-250	12x8		0.10	30	STEEL	WHITE	TITUS 350RS	1, 2
	RET/EXH	GRILLE	251-520	12x12		0.10	30	STEEL	WHITE	TITUS 350RS	1, 2
	RET/EXH	GRILLE	521-1450	24x12		0.10	30	STEEL	WHITE	TITUS 350ZRL	1, 2
	RET/EXH	GRILLE	1451-1800	30x12		0.10	35	STEEL	WHITE	TITUS 350ZRL	1, 2
E1	RET/EXH	GRILLE	0-140	8x6		0.10	30	STEEL	WHITE	TITUS 350RL	1, 2
	RET/EXH	GRILLE	141-240	12x6		0.10	30	STEEL	WHITE	TITUS 350RL	1, 2
	RET/EXH	GRILLE	241-340	12X8		0.10	30	STEEL	WHITE	TITUS 350RL	1, 2
	RET/EXH	GRILLE	341-400	12x10		0.10	30	STEEL	WHITE	TITUS 350RL	1, 2
	RET/EXH	GRILLE	401-650	18x12		0.10	30	STEEL	WHITE	TITUS 350RL	1, 2
	RET/EXH	GRILLE	651-1300	36x12		0.15	35	STEEL	WHITE	TITUS 350RL	1, 2
	RET/EXH	GRILLE	1301-2200	48x12		0.15	35	STEEL	WHITE	TITUS 350RL	1, 2

NOTES

1. COORDINATE BORDER MOUTING TYPE AND LOCATION WITH ARCHITECTURAL PLANS.
2. ALUMINUM FINISH FOR WET LOCATION.
3. LIGHT ALERT FILTER MONITORING
4. MAGNA-PACK HEPA FILTER

EXHAUST FAN SCHEDULE

MARK NUMBER	LOCATION	SERVES	NOMINAL AIRFLOW CFM	STATIC PRESSURE IN WG	PRESSURE IN WG	RPM	ELECTRICAL HP	VOLT	PHASE	TYPE	WEIGHT LBS	BASIS OF DESIGN	NOTE
EF-1-1	-	NOT USED	-	-	-	-	-	-	-	-	-	-	-
EF-2-1	-	NOT USED	-	-	-	-	-	-	-	-	-	-	-
EF-2-2	ROOF	1D1 - SOIL UTILITY	300	0.5	0.5	1537	1/4	120	1	DIRECT	50	GREENHECK CUE-095VG	1, 2, 3, 4
EF-2-3	ROOF	1C70/72 - TLT	200	0.5	0.5	1504	1/6	120	1	DIRECT	50	GREENHECK CUE-080VG	1, 2, 3, 4
EF-3-1	ROOF	1C22/24 - TLT	200	0.7	0.7	1661	1/6	120	1	DIRECT	50	GREENHECK CUE-085VG	1, 2, 3, 4
EF-3-2	ROOF	1B52 - EYE OP FAB	300	0.6	0.6	1496	1/6	120	1	DIRECT	50	GREENHECK CUE-090VG	1, 2, 3, 4
EF-3-3	ROOF	1C07/1B50 - TLT	200	0.6	0.6	1622	1/6	120	1	DIRECT	50	GREENHECK CUE-080VG	1, 2, 3, 4
EF-3-4	ROOF	2B73/85 - TLT	600	0.5	0.5	1539	1/6	120	1	DIRECT	50	GREENHECK CUE-095VG	1, 2, 3, 4
EF-3-5	ROOF	TLT	300	0.5	0.5	1383	1/6	120	1	DIRECT	50	GREENHECK CUE-090VG	1, 2, 3, 4
EF-4-1	ROOF	1B01/03 - TLT	800	0.8	0.8	1505	1/4	120	1	DIRECT	75	GREENHECK CUE-101VG	1, 2, 3, 4
EF-4-2	ROOF	1A47/48 - LOCKER RM	900	0.8	0.8	1568	1/4	120	1	DIRECT	75	GREENHECK CUE-101VG	1, 2, 3, 4
EF-4-3	ROOF	1A35/37 - TLT	500	0.6	0.6	1567	1/6	120	1	DIRECT	50	GREENHECK CUE-095VG	1, 2, 3, 4
EF-4-4	ROOF	1A21 - SOIL UTILITY	200	0.5	0.5	1504	1/6	120	1	DIRECT	50	GREENHECK CUE-080VG	1, 2, 3, 4
EF-4-5	ROOF	2B27/40/42 - TLT	300	0.5	0.5	1337	1/6	120	1	DIRECT	50	GREENHECK CUE-090VG	1, 2, 3, 4
EF-4-6	ROOF	TLT	200	0.4	0.4	1375	1/6	120	1	DIRECT	50	GREENHECK CUE-080VG	1, 2, 3, 4

1

NOTES:

1. MOTOR STARTER AND BUIT-IN DISCONNECT SWITCH
2. BIRD SCREEN
3. 18 INCHES ROOF CURB
4. MOTORIZED DAMPER

DISTRIBUTION BOX SCHEDULE (VRF SYSTEMS)

MARK NUMBER	SERVING	ELECTRICAL DATA VOLT	PH	HZ	BASIS OF DESIGN	NOTE
DB-1-1	FCU-1-2, FCU-1-3	208	1	60		1
DB-1-2	FCU-1-5, FCU-1-6, FCU-1-7	208	1	60		1
DB-1-3	FCU-1-10	208	1	60		1
DB-1-4	FCU-1-8, FCU-1-9	208	1	60		1
DB-1-5	FCU-1-1, FCU-1-4	208	1	60		1
DB-2-1	FCU-2-12, FCU-2-13	208	1	60		1
DB-2-2	FCU-2-10, FCU-2-14	208	1	60		1
DB-2-3	FCU-2-4, FCU-2-7	208	1	60		1
DB-2-4	FCU-2-2, FCU-2-3	208	1	60		1
DB-2-5	FCU-2-1, FCU-2-5	208	1	60		1
DB-2-6	FCU-2-6, FCU-2-9	208	1	60		1
DB-2-7	FCU-2-8, FCU-2-11	208	1	60		1
DB-3-1	FCU-3-13, FCU-3-14	208	1	60		1
DB-3-2	FCU-3-12, FCU-3-15, FCU-3-16	208	1	60		1
DB-3-3	FCU-3-5, FCU-3-7, FCU-3-8	208	1	60		1
DB-3-4	FCU-3-10, FCU-3-11	208	1	60		1
DB-3-5	FCU-3-1, FCU-3-4	208	1	60		1
DB-3-6	FCU-3-2	208	1	60		1
DB-3-7	FCU-3-3, FCU-3-6, FCU-3-9	208	1	60		1
DB-4-1	FCU-4-1, FCU-4-2	208	1	60		1
DB-4-2	FCU-4-4, FCU-4-5, FCU-4-6	208	1	60		1
DB-4-3	FCU-4-3, FCU-4-9	208	1	60		1
DB-4-4	FCU-4-10, FCU-4-11	208	1	60		1
DB-4-5	FCU-4-7, FCU-4-8	208	1	60		1
DB-4-6	FCU-4-12, FCU-4-13	208	1	60		1
DB-5-1	FCU-5-1, FCU-5-2, FCU-5-6	208	1	60		1
DB-5-2	FCU-5-8, FCU-5-10	208	1	60		1
DB-5-3	FCU-5-3, FCU-5-4	208	1	60		1
DB-5-4	FCU-5-5, FCU-5-7	208	1	60		1
DB-5-5	FCU-5-9, FCU-5-11, FCU-5-12	208	1	60		1
DB-6-1	FCU-6-1, FCU-6-5	208	1	60		1
DB-6-2	FCU-6-2, FCU-6-3, FCU-6-6	208	1	60		1
DB-6-3	FCU-6-4, FCU-6-7, FCU-6-8	208	1	60		1
DB-6-4	FCU-6-6, FCU-6-10	208	1	60		1
DB-6-5	FCU-6-11, FCU-6-12, FCU-6-16	208	1	60		1
DB-6-6	FCU-6-13, FCU-6-14	208	1	60		1
DB-6-7	FCU-6-15, FCU-6-17	208	1	60		1
DB-7-1	FCU-7-3, FCU-7-4	208	1	60		1
DB-7-2	FCU-7-7, FCU-7-12	208	1	60		1
DB-7-3	FCU-7-5, FCU-7-6, FCU-7-10, FCU-7-11	208	1	60		1
DB-7-4	FCU-7-13, FCU-7-14	208	1	60		1
DB-7-5	FCU-7-1, FCU-7-2	208	1	60		1
DB-7-6	FCU-7-8, FCU-7-9	208	1	60		1

NOTES:

1. RUN REFRIGERANT SUCTION AND LIQUID INDIVIDUALLY FROM FCU TO DISTRIBUTION BOX

SYM	DESCRIPTION	DATE
1	BID OPTION	11/04/15
	FINAL CORRECTED SET	03/26/14
	100% FINAL DESIGN SUBMISSION	02/14/14
	65% VE SUBMISSION	11/25/13
	65% SUBMITTAL	04/26/13

NAVFAC

COMMONWEALTH OF VIRGINIA
SOPHEAP CHAN
Lic. No. 0402042516
11/4/15
PROFESSIONAL ENGINEER

HDR
ARCHITECTURE | ENGINEERING & CONSULTING
1101 KING STREET
SUITE 400
ALEXANDRIA, VIRGINIA 22314
703-518-8500

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES CS DRW VV CHK DL
PM/DM CHEMENJU/HILL
BRANCH MANAGER N/A
CHIEF ENG/ARCH TOM COX

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
COMPONENT NAME
NAVAL FACILITIES ENGINEERING COMMAND ~ AGENCY
BASE - CITY, STATE
BETHESDA, MD
PROJECT STATION/INSTALLATION
P125 - TEMPORARY MEDICAL FACILITIES
PACKAGE 2 - CLINIC BUILDING
MECHANICAL SCHEDULES

SCALE: 1/8" = 1'-0"
EPROJECT NO.: 1151333
CONSTR. CONTR. NO. N62470-09-D-9044
NAVFAC DRAWING NO. 13066047
SHEET OF 0

M-602-V

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VARIABLE REFRIGERANT VOLUME FAN COIL UNIT SCHEDULE

MARK NO	SERVING	SUPPLY MAX CFM	SUPPLY DESIGN CFM	OA CFM	COOLING DATA EAT DB	EAT WB	LAT DB	LAT WB	TOTAL BTUH	SENSIBLE BTUH	HEATING BTUH	FAN ESP INCH	ELECTRICAL MCA	VOLT	PH	HZ	BASIS OF DESIGN	NOTES
FCU-1-01	1D32 - ELEC RM	1377	1240	N/A	72	61	53	52	37,903	29,457	53,998	0.8	3.4	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-1-02	1D26/1D96/1D97 - ADMIN OFF	1094	370	80	72	61	52	51.5	23,682	19,463	34,000	0.8	2.8	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-1-03	1D22/1D24/1D94/1D95 - ADMIN OFF	689	400	80	72	61	55	54.5	19,007	15,491	27,000	0.8	1.8	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-1-04	1C64/1C62-EYE LANE FLD 1C02/1D01D	1094	440	140	72	61	52	51.5	23,682	19,463	34,000	0.8	2.8	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-1-05	1D12 - EYE LANE FLD 1C68, 1D12 - EQUIP STOR	689	430	120	72	61	55	54.5	19,007	15,491	27,000	0.8	1.8	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-1-06	1D00 - CONF, 1D18 - STOR	1094	610	190	72	61	52	51.5	23,682	19,463	34,000	0.8	2.8	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-1-07	1D20 - WAIT	1094	600	165	72	61	52	51.5	23,682	19,463	34,000	0.8	2.8	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-1-08	1D89/1D90/1C91 - ADMIN OFF	1094	640	105	72	61	52	51.5	23,682	19,463	34,000	0.8	2.8	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-1-09	NOT USED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FCU-1-10	1C66 - COMM	1377	1200	100	72	61	53	52	37,903	29,457	53,998	0.8	3.4	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-2-01	1C54/1C56/1C58 - EYE LANE FLD ELEC	1130	1030	255	72	61	53	52	28,403	23,424	39,999	0.8	2.9	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-2-02	1C71/1C73 - LASER TREAT	1130	1035	235	72	61	53	52	28,403	23,424	39,999	0.8	2.9	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-2-03	1C63/1C65/1C67 - EYE LANE FLD ELEC	689	590	180	72	61	55	54.5	19,002	13,191	26,999	0.8	1.8	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-2-04	1C50/1C52 - EYE LANE FLD ELEC	883	750	300	72	61	52	51.5	23,702	19,497	33,999	0.8	2.3	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-2-05	1C53/1C55/1C57/1C59 - EYE LANE FLD ELEC	883	750	220	72	61	52	51.5	23,702	19,497	33,999	0.8	2.3	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-2-06	1C47 - ELEC	318	250	N/A	72	61	56.5	56	5,901	5,309	8,500	0.8	0.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-2-07	1C00B - WAIT	689	600	120	72	61	55	54.5	19,002	13,191	26,999	0.8	1.8	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-2-08	1C36/1C38/1C40/1C42 - EYE LANE FLD ELEC	883	880	225	72	61	52	51.5	23,702	19,497	33,999	0.8	2.3	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-2-09	1C34/1C51 - EYE LANE FLD ELEC	635	430	160	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-2-10	1C28/1C43/1C45 - VIS FIELD	635	615	180	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-2-11	1C16/1C18/1C39 - EYE LANE FLD ELEC	1130	965	255	72	61	53	52	28,403	23,424	39,999	0.8	2.9	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-2-12	1C10/1C12/1C14 - EYE LANE FLD ELEC	1130	1040	330	72	61	53	52	28,403	23,424	39,999	0.8	2.9	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-2-13	1C04/1C06/1C08 - EYE LANE FLD ELEC	883	760	265	72	61	52	51.5	23,702	19,497	33,999	0.8	2.3	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-2-14	1C00A - WAIT	689	600	120	72	61	55	54.5	19,002	13,191	26,999	0.8	1.8	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-3-01	1C15/1C17/1C19 - OPTH EXAM	689	650	225	72	61	55	54.5	19,002	13,191	26,999	0.8	1.8	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-3-02	1C09 - COMM	1377	1200	100	72	61	53	52	37,903	29,457	53,998	0.8	3.4	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-3-03	1B51 - EYEGLASS FITTING/ 1B52 EYE OPT	689	620	195	72	61	55	54.5	19,002	13,191	26,999	0.8	1.8	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-3-04	1B43/1B47/1B49 - EYE LANE FLD ELEC	1130	1130	300	72	61	53	52	28,403	23,424	39,999	0.8	2.9	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-3-05	1B39/1B40/1B41 - EYE LANE FLD ELEC	883	745	265	72	61	52	51.5	23,702	19,497	33,999	0.8	2.3	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-3-06	1B37 - RECP/ 1B38 OPT/ TECH WK	635	450	100	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-3-07	1B24/1B25/1B26 - VIS SCRN	883	770	300	72	61	52	51.5	23,702	19,497	33,999	0.8	2.3	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-3-08	1B07 - MECHINE RM	318	250	N/A	72	61	56.5	56	5,901	5,309	8,500	0.8	0.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-3-09	1B19 - OPT/WK/ 1B20 - COUNS	635	600	300	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-3-10	1B13/1B14 - ADMIN OFF	883	880	130	72	61	52	51.5	23,702	19,497	33,999	0.8	2.3	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-3-11	1B27/1B29/1B31 - EYE LANE FLD	635	515	170	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-3-12	1C47 - ELEC	318	250	N/A	72	61	56.5	56	5,901	5,309	8,500	0.8	0.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-3-13	1B09/1B11 - ADMIN OFF	1130	970	160	72	61	53	52	28,403	23,424	39,999	0.8	2.9	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-3-14	1B10 - CONSULT	635	400	110	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-3-15	1B08 - CONF RM	318	315	125	72	61	56.5	56	5,901	5,309	8,500	0.8	0.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-3-16	1A99 - LOBBY	1377	1170	360	72	61	53	52	37,903	29,457	53,998	0.8	3.4	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-4-01	1A00 - CHAPEL	1130	1040	300	72	61	53	52	28,403	23,424	39,999	0.8	2.9	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-4-02	1A47/1A48 - CHANGE ROOM	635	360	300	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-4-03	1A50 - EQUIP STOR	635	475	120	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-4-04	1A01 WAIT CHAIR/ 1A02 REC	689	635	150	72	61	55	54.5	19,002	13,191	26,999	0.8	1.8	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-4-05	1A46 - ELEC	318	250	N/A	72	61	56.5	56	5,901	5,309	8,500	0.8	0.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-4-06	1A01 WAIT CHAIR/ 1A02 REC	635	590	160	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-4-07	1A06/1A07 - EXAM	635	455	150	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-4-08	1A11/1A13/1A15 - EXAM	1130	890	255	72	61	53	52	28,403	23,424	39,999	0.8	2.9	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-4-09	1A52/1A53 - STOR	635	480	100	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-4-10	1A33 - CONF	635	500	200	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-4-11	1A56 - COMM	1377	1200	100	72	61	53	52	37,903	29,457	53,998	0.8	3.4	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-4-12	1A10/1A12/1A14 - EXAM	1130	980	210	72	61	53	52	28,403	23,424	39,999	0.8	2.9	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-4-13	1A20/1A22 - OFF	689	650	100	72	61	55	54.5	19,002	13,191	26,999	0.8	1.8	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-5-01	2C49 - HLTH PHY TECH	883	870	200	72	61	52	51.5	23,702	19,497	33,999	0.8	2.3	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-5-02	2C50/2C51 - RAD PROT LAB	635	380	150	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-5-03	2C09 - CLRM TABLE	1130	780	225	72	61	53	52	28,403	23,424	39,999	0.8	2.9	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-5-04	2C11/2C12/2C13/2C14 - PVT OFF	883	710	140	72	61	52	51.5	23,702	19,497	33,999	0.8	2.3	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-5-05	2C17/2C18 - PVT OFF	883	720	180	72	61	52	51.5	23,702	19,497	33,999	0.8	2.3	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-5-06	2C38 - ELEC BC	318	250	N/A	72	61	56.5	56	5,901	5,309	8,500	0.8	0.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-5-07	2C19/2C20 - PVT OFF	883	715	180	72	61	52	51.5	23,702	19,497	33,999	0.8	2.3	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-5-08	2C41/2C43/2C45 - ADMIN OFF	1130	840	215	72	61	53	52	28,403	23,424	39,999	0.8	2.9	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-5-09	2C29/2C30/2C31 - ADMIN OFF	1130	875	215	72	61	53	52	28,403	23,424	39,999	0.8	2.9	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-5-10	2C63/2C65/2C66/2C67 - CHAP OFF	1130	1070	215	72	61	53	52	28,403	23,424	39,999	0.8	2.9	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-5-11	2C01/2C02 - WAIT	883	705	160	72	61	52	51.5	23,702	19,497	33,999	0.8	2.3	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-5-12	2C25 - CONF	883	660	250	72	61	52	51.5	23,702	19,497	33,999	0.8	2.3	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-6-01	2B57/2B59/2B61 - CHAP OFF	883	710	120	72	61	52	51.5	23,702	19,497	33,999	0.8	2.3	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-6-02	2B76 - SEC WAIT	635	380	100	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-6-03	1B86 - COMM	1377	1200	100	72	61	53	52	37,903	29,457	53,998	0.8	3.4	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-6-04	2B06/2B08 - ADMIN OFF	883	660	160	72	61	52	51.5	23,702	19,497	33,999	0.8	2.3	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-6-05	2B58 - CONF RM/LIB	635	560	200	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-6-06	2B81 - CONF RM	635	570	210	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-6-07	2B13/2B15 - ADMIN OFF	635	570	210	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-6-08	2B16 - CONF RM	635	400	120	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-6-09	2B32- ADMIN	635	550	120	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-6-10	2B29- CONF	635	500	250	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-6-11	2B22/2B24/2B26 - ADMIN	635	500	120	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-6-12	2B19 - CONF	635	495	200	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-6-13	2B51/2B52/2B53 - MNTL HLTH PROV	1130	910	120	72	61	53	52	28,403	23,424	39,999	0.8	2.9	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-6-14	2B46 - GROUP THERAPY RM	635	450	120	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-6-15	2B41/2B43/2B45 - MNTL HLTH PROV	1377	1160	165	72	61	53	52	37,903	29,457	53,998	0.8	3.4	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-6-16	2B34/2B36 - MNTL HLTH PROV	635	585	120	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-6-17	2A99A - LOBBY	883	660	200	72	61	52	51.5	23,702	19,497	33,999	0.8	2.3	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-7-01	2A99A - LOBBY	883	630	170	72	61	52	51.5	23,702	19,497	33,999	0.8	2.3	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-7-02	2A51/2A52 - ADLT SCRN	883	775	180	72	61	52	51.5	23,702	19,497	33,999	0.8	2.3	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-7-03	2A69 - RESIDENT CUB	635	580	140	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-7-04	2A26/2A27 - EXAM	883	650	150	72	61	52	51.5	23,702	19,497	33,999	0.8	2.3	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-7-05	2A58/2A60 - EXAM	883	700	225	72	61	52	51.5	23,702	19,497	33,999	0.8	2.3	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-7-06	2A33/2A35/2A37 - SYS OFF	635	485	140	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-7-07	2A33/2A35/2A37 - SYS OFF	635	520	130	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-7-08	2A03 - PAT LIB	318	300	100	72	61	56.5	56	5,901	5,309	8,500	0.8	0.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-7-09	2A05 - SYS FURN	635	420	130	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-7-10	2A34 - ELEC BC	318	250	N/A	72	61	56.5	56	5,901	5,309	8,500	0.8	0.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-7-11	2A13 - ADM CUB	635	1530	130	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-7-12	2A22 - COMM	1377	1200	100	72	61	53	52	37,903	29,457	53,998	0.8	3.4	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-7-13	2A02/2A04/2A06 - SYS FURN	1377	1140	180	72	61	53	52	37,903	29,457	53,998	0.8	3.4	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7
FCU-7-14	2A18/2A20 - SYS FURN	635	500	100	72	61	55	54.5	14,201	12,055	19,999	0.8	1.6	208	1	60	DAIKIN FXMQ	1, 2, 3, 4, 5, 6, 7

NOTES:

1. WALL MOUNTED THERMOSTAT
2. MOTOR STARTER
3. MERV 8 FILTER
4. UNIT WITH R-410 DX COIL AND COMPATIBLE TO VARIABLE REFRIGERANT SYSTEM
5. UNIT WITH INTEGRAL UL-508 LISTED W/ ALARMING CAPABILITY CONDENSATE PUMP, PROVIDE TRANSFORMER IF REQUIRE
6. FANS TO BE PROVIDED WITH ECM MOTORS.
7. PROVIDE EACH UNIT W/ FIELD-PROVIDED DISCONNECT.

1

VARIABLE REFRIGERANT VOLUME AIR COOLED CONDENSING UNIT SCHEDULE

MARK NO	SERVING	REFRIGERANT	COOLING CAPACITY MBH	HEATING CAPACITY MBH	ELEC MODULE A MCA	MODULE B MCA	MODULE C MCA	V/ PH/ HZ	WEIGHT LBS	BASIS OF DESIGN	NOTE
CU-1	FCU-1-1 - FCU-1-10	R-410	206	231	20.3	20.5	NONE	480/3/60	573+573	DAIKIN REYQ216PBYD	1,2
CU-2	FCU-2-1 - FCU-2-14	R-410	251	283	16.7	20.3	20.3	480/3/60	463+573+573	DAIKIN REYQ264PBYD	1,2
CU-3	FCU-3-1 - FCU-3-16	R-410	297	334	20.3	20.3	20.5	480/3/60	573+573+573	DAIKIN REYQ3125PBYD	1,2
CU-4	FCU-4-1 - FCU4-13	R-410	206	231	20.3	20.5	NONE	480/3/60	573+573	DAIKIN REYQ216PBYD	1,2
CU-5	FCU-5-1 - FCU-5-12	R-410	251	283	16.7	20.3	20.3	480/3/60	463+573+573	DAIKIN REYQ264PBYD	1,2
CU-6	FCU-6-1 - FCU-6-17	R-410	320	360	20.5	20.3	20.5	480/3/60	573+573+573	DAIKIN REYQ336PBYD	1,2
CU-7	FCU-7-1 - FCU-7-14	R-410	251	283	16.7	20.3	20.3	480/3/60	463+573+573	DAIKIN REYQ264PBYD	1,2

NOTES:

1. LOW AMBIENT OPERATION UP TO -4 F
2. CONDENSING UNITS ARE HEAT RECOVERY TYPE CAPABLE OF PROVIDING SIMULTANEOUS COOLING AND HEATING AS REQUIRED BY INDOOR FAN COIL UNITS

1

SYM	DESCRIPTION	DATE
1	BID OPTION	11/04/15
	FINAL CORRECTED SET	03/26/14
	100% FINAL DESIGN SUBMISSION	02/14/14
	65% VE SUBMISSION	11/25/13
	65% SUBMITTAL	04/26/13

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APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

SATISFACTORY TO DATE

DES CS | DRW VV | CHK DL
PM/DM CHEMENJU/HILL
BRANCH MANAGER N/A
CHIEF ENG/ARCH TOM COX

DEPARTMENT OF THE NAVY
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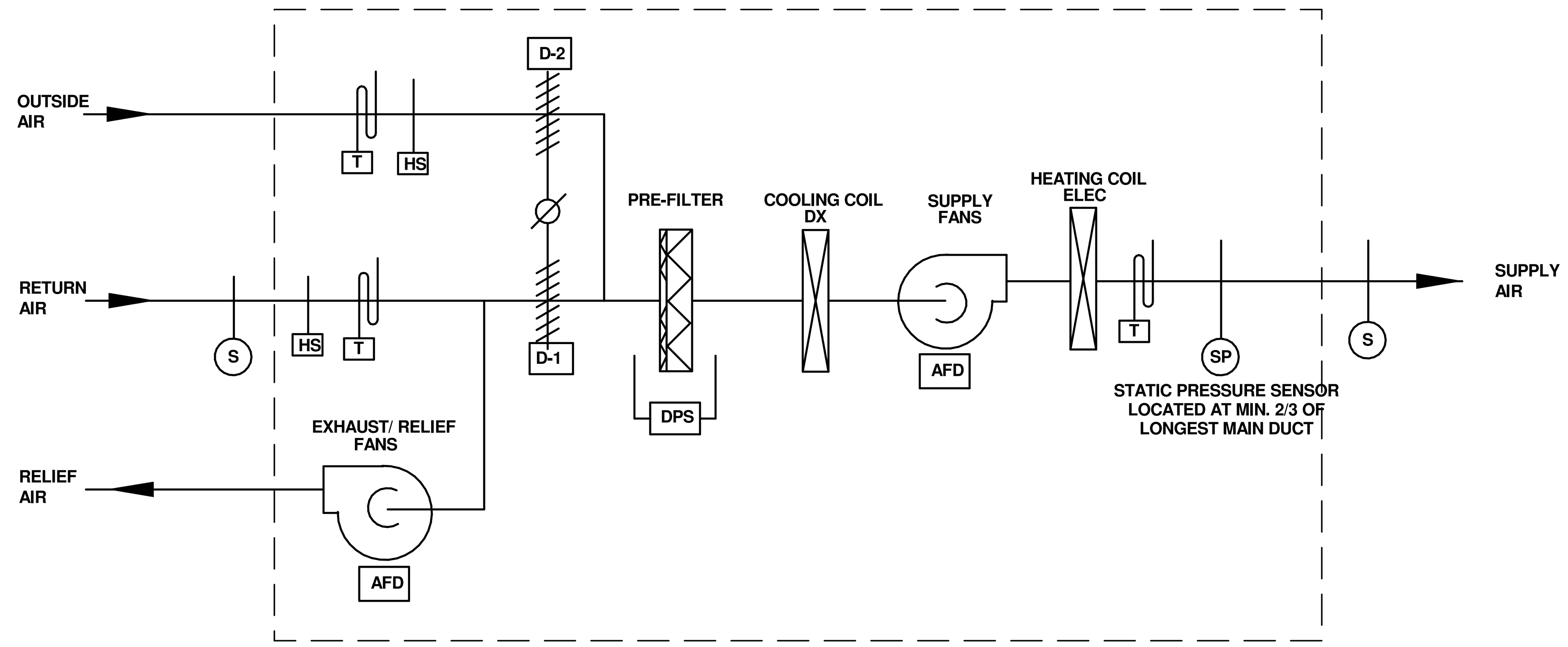
PROJECT STATION/INSTALLATION
BETHESDA, MD
P125 - TEMPORARY MEDICAL FACILITIES
PACKAGE 2 - CLINIC BUILDING
MECHANICAL SCHEDULES

SCALE: 1/8" = 1'-0"
EPROJECT NO.: 1151333
CONSTR. CONTR. NO. N62470-09-D-9044
NAVFAC DRAWING NO. 13066048
SHEET OF 0

M-603-V



(RTU-1 NOT USED)

ROOFTOP UNITS (RTU-2, RTU-3 AND RTU-4)

1. GENERAL:
A. CONTROL SHALL BE PROVIDED BY RTU MANUFACTURER.
B. THE RTU SHALL BE ENABLED BY ADJUSTABLE TIME SCHEDULES .

2. OCCUPIED MODE:
DAMPER D-1 SHALL BE FULLY CLOSED, DAMPER D-2 SHALL BE FULLY OPENED. SUPPLY FAN AND EXHAUST/RELIEF FAN SHALL MAINTAIN CONSTANT AIR VOLUME. HEATING COIL, COILING COIL AND ASSOCIATED COMPRESSORS SHALL MODULATE TO MAINTAIN SUPPLY AIR TEMPERATURE AT 70 °F (ADJ.) FOR WINTER AND 55° (ADJ.) FOR SUMMER.

3. UNOCCUPIED MODE:
RTU AND ASSOCIATED EXHAUST FAN SHALL BE OFF. FAN COIL UNIT SHALL MAINTAIN SPACE TEMPERATURE SET POINT.

4. EXHAUST FAN:
EF-2-2 AND EF-2-3 SHALL BE INTERLOCKED TO RTU-2.
EF-3-1, EF-3-2, EF-3-3, EF-3-4 AND EF-3-5 SHALL BE INTERLOCKED TO RTU-3.
EF-4-1, EF-4-2, EF-4-3, EF-4-4, EF-4-5 AND EF-4-6 SHALL BE INTERLOCKED TO RTU-4.

5. FILTER STATUS:
THE DIFFERENTIAL PRESSURE OF FILTERS SHALL INDICATE FILTER LOADING. AN ALARM SHALL BE GENERATED WHEN DIFFERENTIAL PRESSURE REACHES 1.0" (ADJ.)

6. HIGH STATIC PRESSURE PROTECTION:
WHEN DUCT STATIC PRESSURE IS 2.0" (ADJ.) HIGHER THAN PRESET CONDITION, AN ALARM SHALL BE GENERATED. UNIT SHALL BE OFF.

7. SMOKE DETECTOR CONTROL (COORDINATE WITH FIRE PROTECTION):
UPON DETECTING SMOKE, RTU SHALL BE SHUTDOWN VIA FIRE ALARM CONTACT.

CONTROL POINT SCHEDULES

SYSTEM, APPARATUS, OR AREA POINT DESCRIPTION	INPUT – ANALOG – MEASURED										INPUT – ANALOG – CALCULATED					INPUT – DIGITAL								
	TEMPERATURE	PRESSURE	DIFFERENTIAL PRESS.	HUMIDITY	KW	AIR FLOW	WATER/STEAM FLOW	SPEED	DAMPER/VALVE POSITION	LEVEL	KWH	ENTHALPY	RUN TIME	EFFICIENCY		STATUS	DAMPER/VALVE POSITION	SMOKE	FREEZE	AIR FLOW	ALARM	CO2 LEVEL	WATER LEVEL	LOW PRESS ALARM
RTU-2 THRU RTU-4																								
Supply Air	X																	X						
Supply Air Humidity				X																				
Supply Air Static Pressure		X																						
Supply Fan (VFD)								X					X			X								
Outside Air	X																							
Outside Air Humidity				X								X												
Outside Air Damper (D-2)									X															
Return/Exhaust Fan (VFD)								X					X			X								
Return Air	X																	X						
Return Air Humidity				X								X												
Return Air Damper (D-1)									X															
Cooling Coil (DX) Compressors													X			X								
Elec Heating Coil													X			X								
Pre filter			X																					
Exhaust Fans													X			X								
Damper									X															

SYSTEM, APPARATUS, OR AREA POINT DESCRIPTION	OUTPUTS – ANALOG						OUTPUTS – DIGITAL					
	DMPR POS	VALVE POS	SET POINT ADJ.	SPEED	FIRING RATE	MODULATION CONTROL	OFF-ON	OFF-AUTO-ON	OFF-HI-LO	OPEN-CLOSE		
RTU-2 THRU RTU-4												
Supply Air			X									
Supply Air Humidity			X									
Supply Air Static Pressure			X									
Supply Fan (VFD)				X			X					
Outside Air												
Outside Air Humidity												
Outside Air Damper (D-2)	X											
Return/Exhaust Fan (VFD)				X			X					
Return Air												
Return Air Humidity												
Return Air Damper (D-1)	X											
Cooling Coil (DX) Compressors				X		X						
Elec Heating Coil						X						
Pre filter			X									
Exhaust Fans							X					
Damper	X											

SYSTEM, APPARATUS, OR AREA POINT DESCRIPTION	SYSTEM FEATURES – ALARMS							SYSTEM FEATURES – PROGRAMS											GENERAL					SUPPLEMENTARY NOTES
	HI ANALOG	LOW ANALOG	HI BINARY	LOW BINARY	TROUBLE	FAILURE ALARM		TIME SCHEDULING	DEMAND LIMITING	DUTY CYCLE	START/STOP OPT.	ENTHALPY OPT.	NIGHT SETBACK	INTERLOCK	ALARM INSTRUCT	MAINT. WK. ORD.			GRAPHIC					
RTU-2 THRU RTU-4								X			X	X	X	X	X				X					
Supply Air	X	X																						
Supply Air Humidity	X																							
Supply Air Static Pressure	X																							
Supply Fan (VFD)						X																		
Outside Air																								
Outside Air Humidity																								
Outside Air Damper (D-2)																								
Return/Exhaust Fan (VFD)						X																		
Return Air																								
Return Air Humidity																								
Return Air Damper (D-1)																								
Cooling Coil (DX) Compressors						X																		
Elec Heating Coil	X					X																		
Pre filter	X																							
Exhaust Fans						X												X						
Damper																								

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BETHESDA, MD
P125 - TEMPORARY MEDICAL FACILITIES
PACKAGE 2 - CLINIC BUILDING
MECHANICAL CONTROLS

SCALE: 1/8" = 1'-0"
EPROJECT NO.: 1151333
CONSTR. CONTR. NO. N62470-09-D-9044
NAVFAC DRAWING NO. 13066050
SHEET OF 0
M-701-V

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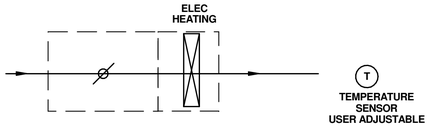


VARIABLE AIR VOLUME BOX

1. GENERAL:
A. CONTROL CONTRACTOR SHALL PROVIDE ALL NECESSARY CONTROL EQUIPMENT TO COMPLETE THE SEQUENCE OF OPERATION.
B. THE VAV BOX SHALL MODULATE AIR FLOW BETWEEN ITS MINIMUM AND MAXIMUM SETPOINT.

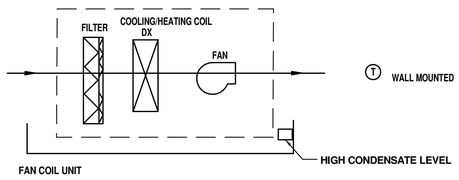
2. TEMPERATURE CONTROL:
A. ON A RISE IN SPACE TEMPERATURE ABOVE 72°F (ADJ.), CONTROLLER SHALL MODULATE THE TERMINAL BOX DAMPER OPENED.
B. ON A FALL IN SPACE TEMPERATURE BELOW 70°F (ADJ.), CONTROLLER SHALL MODULATE THE TERMINAL BOX DAMPER TO MINIMUM SETTING.
C. UPON FURTHER SPACE TEMPERATURE DROP AND THE AIR VOLUME IS AT MINIMUM SETTING, CONTROLLER SHALL MODULATE ELECTRIC HEAT TO MAINTAIN THE SPACE TEMPERATURE SET POINT.

3. COOLING AND HEATING SET POINTS SHALL EACH HAVE SEPARATE OCCUPIED AND UNOCCUPIED SETTINGS. CONTROLLER SHALL AUTOMATICALLY SHIFT BETWEEN OCCUPIED AND UNOCCUPIED SETTINGS WHEN SCHEDULED.

4. DURING UNOCCUPIED AND WARMING UP MODE, VAV'S ELECTRIC HEAT SHALL BE DE-ENERGIZED. VAV'S ELECTRIC HEAT SHALL BE ENERGIZED ONLY WHEN RTU CAN NOT MAINTAIN AVERAGE SPACE TEMPERATURE SET POINTS.

CONTROL POINT SCHEDULES

SYSTEM, APPARATUS, OR AREA POINT DESCRIPTION	INPUT – ANALOG – MEASURED									INPUT – ANALOG – CALCULATED				INPUT – DIGITAL							OUTPUTS – ANALOG					OUTPUTS – DIGITAL				SYSTEM FEATURES – ALARMS						SYSTEM FEATURES – PROGRAMS								GENERAL				SUPPLEMENTARY NOTES
	TEMPERATURE	PRESSURE	DIFFERENTIAL PRESS.	HUMIDITY	KW	AIR FLOW	WATER/STEAM FLOW	SPEED	DAMPER POSITION	CONCENTRATION	KWH	ENTHALPY	RUN TIME	EFFICIENCY	STATUS	SMOKE	FREEZE	AIR FLOW	ALARM	LOW LEVEL ALARM	LOW PRESS ALARM	DAMPER POS	VALVE POS	SET POINT ADJ.	SPEED	FIRING RATE	SCR CONTROL	OFF-ON	OFF-AUTO-ON	OFF-HI-LO	OPEN-CLOSE	HI ANALOG	LOW ANALOG	HI BINARY	LOW BINARY	TROUBLE	FAILURE ALARM	TIME SCHEDULING	DEMAND LIMITING	DUTY CYCLE	START/STOP OPT.	ENTHALPY OPT.	NIGHT SETBACK	INTERLOCK	ALARM INSTRUCT	MAINT. WK. ORD.	STATIC PRESS. OPT.	GRAPHIC				
AIR TERMINAL BOX (typical)																																						X			X		X	X	X			X				
Space Temp.	X																							X								X	X																			
Supply Air	X					X			X													X										X																					
Electric heat															X												X																										

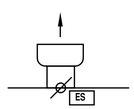


1. GENERAL:
A. VARIABLE REFRIGERANT VOLUME MANUFACTURER SHALL PROVIDE ALL NECESSARY CONTROL EQUIPMENT TO COMPLETE THE SEQUENCE OF OPERATION.
B. VRF SYSTEM SHALL HAVE CAPABILITY TO OPERATE PER TIME SCHEDULES AND SET BACK CONFIGULATION.

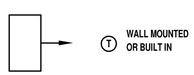
2. FAN AND CONDENSING UNIT:
WHEN COOLING OR HEATING IS REQUIRED, FAN SHALL BE ENERGIZED, BRANCH SELECTOR BOX SHALL APPROPRIATELY SELECT HEATING OR COOLING TO MAINTAIN TEMPERATURE SETPOINT.
3. CONDENSATE OVER FLOW DETECTION:
IF OVERFLOW DETECTOR SENSES WATER, UNIT SHALL DE-ENERGIZE AND SIGNAL TO CONTROL PANEL IN ROOM 1D98

CONTROL POINT SCHEDULES

SYSTEM, APPARATUS, OR AREA POINT DESCRIPTION	INPUT – ANALOG – MEASURED									INPUT – ANALOG – CALCULATED				INPUT – DIGITAL							OUTPUTS – ANALOG					OUTPUTS – DIGITAL				SYSTEM FEATURES – ALARMS						SYSTEM FEATURES – PROGRAMS								GENERAL				SUPPLEMENTARY NOTES
	TEMPERATURE	PRESSURE	DIFFERENTIAL PRESS.	HUMIDITY	KW	AIR FLOW	WATER/STEAM FLOW	SPEED	VALVE POSITION	LEVEL	KWH	ENTHALPY	RUN TIME	EFFICIENCY	STATUS	SMOKE	FREEZE	AIR FLOW	ALARM	LOW LEVEL ALARM	LOW PRESS ALARM	DMPR POS	VALVE POS	SET POINT ADJ.	SPEED	FIRING RATE	OFF-ON	OFF-AUTO-ON	OFF-HI-LO	OPEN-CLOSE	HI ANALOG	LOW ANALOG	HI BINARY	LOW BINARY	TROUBLE	FAILURE ALARM	TIME SCHEDULING	DEMAND LIMITING	DUTY CYCLE	START/STOP OPT.	ENTHALPY OPT.	NIGHT SETBACK	INTERLOCK	ALARM INSTRUCT	MAINT. WK. ORD.	STATIC PRESS. OPT.	GRAPHIC				
FAN COIL UNIT																																											X			X					
Supply Fan												X			X														X								X															
Space Temp.	X																							X								X	X																				
DX Coil and Condensing Unit															X														X							X																	
Condensate Over Flow										X																							X																				



EXHAUST FAN



UNIT HEATER

MISCELLANEOUS EQUIPMENT

1. GENERAL:
A. CONTROL CONTRACTOR SHALL PROVIDE ALL NECESSARY CONTROL EQUIPMENT TO COMPLETE THE SEQUENCE OF OPERATION.

2. EXHAUST FAN

MOTORIZED EXHAUST FAN DAMPER SHALL BE CLOSED WHEN THE FAN IS DE-ENERGIZED. MOTORIZED EXHAUST FAN DAMPER SHALL MODULATE FULLY OPEN PRIOR TO ENERGIZING THE FAN.

EXHAUST FAN (EF-2-1 THRU EF-4-6) SHALL BE INTERLOCKED TO ASSOCIATED RTU.

3. ELECTRIC UNIT HEATER:
UNIT HEATER SHALL MAINTAIN SPACE TEMPERATURE AT 60°F (ADJ.).

1

TIME SCHEDULES (RTU-2, 3 AND 4))

TIME	COOLING F	HEATING F
11 PM - 6 AM	OFF	OFF
6 AM - 11 PM	55	85

TIME SCHEDULES (VAV)

TIME	COOLING F	HEATING F
11 PM - 6 AM	80	60
6 AM - 11 PM	70	70

TIME SCHEDULES (FCU)

TIME	COOLING F	HEATING F
11 PM - 6 AM	80	60
6 AM - 11 PM	72	70

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