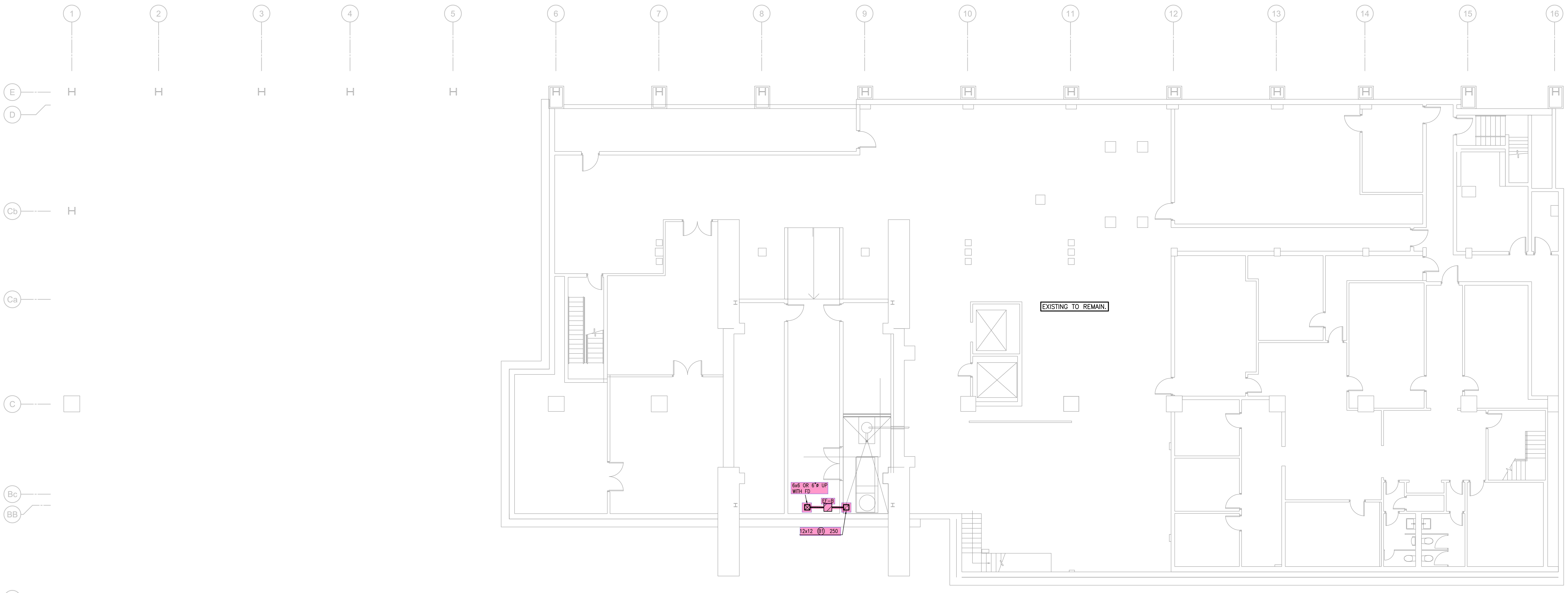

1 **BASEMENT PLAN**
1/8"=1'-0" HVAC
NORTH

NOTES:

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. MAINTAIN DUCTS AS HIGH AS POSSIBLE TO STRUCTURE IN ALL CASES UNLESS OTHERWISE NOTED.
3. ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
4. SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
5. ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
6. FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 15 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.
7. VRF AHU'S TO HAVE 3/4" CONDENSATE ROUTED TO WATER HEATER CLOSET DRAINS. USE 1" WHEN MORE THAN ONE UNIT.
8. PROVIDE MANUFACTURER REQUIRED CLEARANCES FOR AHU'S AND WATER HEATERS.
9. GENERALLY CENTER GRILLES/REGISTERS IN WALLS, OVER DOORS, ALIGN WITH WINDOWS, ETC.
10. ROUTE AHU CONDENSATE INDIRECT TO FLOOR DRAINS IN AHU CLOSETS.
11. OWNER TO SUPPLY THE FOLLOWING EQUIPMENT FOR CONTRACTOR INSTALLATION: MITSUBISHI CITY MULTI HEAT PUMPS VRF EQUIPMENT. ALL AHU'S, ODU'S, ODU SUPPORTS, BRANCH CONTROLLER BOXES, THERMOSTATS, AND INVOICING-BILLING CONTROLS.
12. PROVIDE DX PIPING SHOP DRAWING PER FLOOR.

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LSA PROJECT NO. 2204006

Strada Architecture

RICHARD R.
BEARDMORE
E-76983

3/3/2023

Project Information

7 W 7TH

7 West 7th Street Cincinnati OH
45202

Owner: Victrix LLC

Project Number: **21084**

Revision History

ID	Date	Issue Name

Current Issuance

Date	Project Phase
03.03.23	Permit Set

Drawing Title

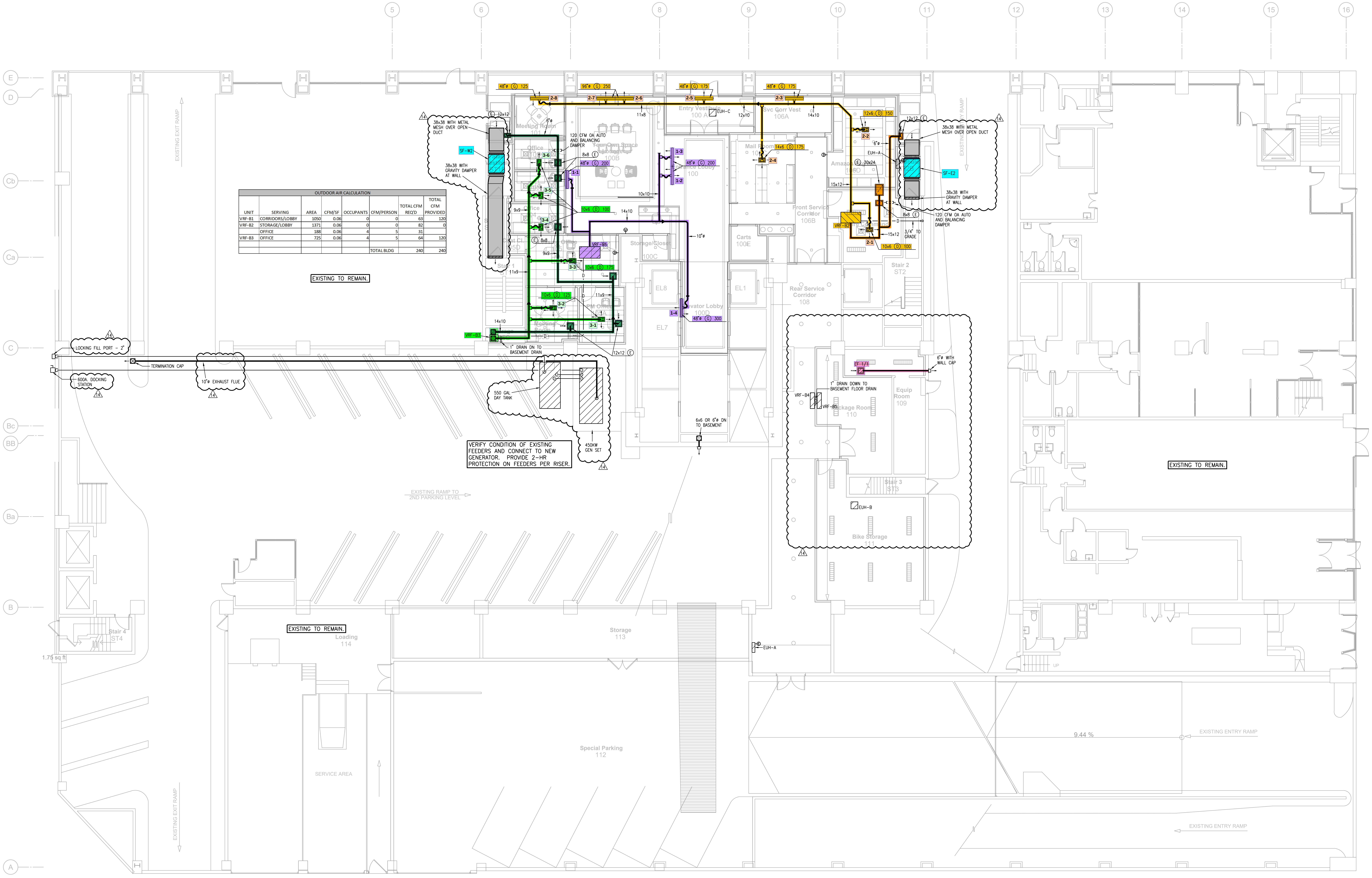
BASEMENT PLAN - HVAC

Sheet Number

M1.01

NOTES:

1. REFER TO SHEET M1.01 FOR NOTES AND LEGEND.


5
6
7
8
9
10
11
12
13
14
15
16
E
D
Cb
Ca
C
Bc
BB
Ba
B
A
48"ø (G) 125
96"ø (G) 250
48"ø (G) 175
48"ø (G) 175
2-8
2-7
2-6
2-5
2-3
11x8
12x10
14x10
Entry Vestibule 100 A
EUH-C
Svc Corr Vest 106A
12x6 (D) 150
2-2
6"ø
EUH-A
Amazon Lkg Rm 106D
(E) 30x24
15x12
Mail Room 100C
14x6 (D) 175
2-4
Front Service Corridor 106B
VRF-B2
Fire Command
15x12
2-1
10x6 (D) 100
8x8 (E)
3/4" TO GRADE
12x12 (E)
38x38 WITH METAL MESH OVER OPEN DUCT
SF-E2
38x38 WITH GRAVITY DAMPER AT WALL
120 CFM OA AUTO AND BALANCING DAMPER
EXISTING ENTRY RAMP
Stair 2 ST2
14
(E) 12x12
38x38 WITH METAL MESH OVER OPEN DUCT
SF-W2
38x38 WITH GRAVITY DAMPER AT WALL
6"ø
Meeting Room 101
120 CFM OA AUTO AND BALANCING DAMPER
Your Own Space Lounge 100B
8x8 (E)
48"ø (G) 200
1-1
3-6
Office 102
3-5
Office 104
3-4
10x6 (D) 100
10x10
14x10
1-3
1-2
48"ø (G) 200
Entrance Lobby 100
10"ø
VRF-B1
Storage/Closet 100C
Carts 100E
9x9
(E) 8x8
Coat Cl. 105D
Leasing Office 105
9x9
3-3
10x6 (D) 175
Stair 1 ST1
11x9
10x6 (D) 125
3-2
11x9
PM Office 105A
3-1
Meeting Room 105B
14x10
VRF-B3
1" DRAIN DN TO BASEMENT DRAIN
12x12 (E)
EL8
EL1
EL7
Elevator Lobby 100D
1-4
48"ø (G) 300
Rear Service Corridor 108
EF 1/1
6"ø WITH WALL CAP
1" DRAIN DOWN TO BASEMENT FLOOR DRAIN
VRF-B4
VRF-B5
Package Room 110
Equip Room 109
Stair 3 ST3
EUH-B
Bike Storage 111
LOCKING FILL PORT - 2"
TERMINATION CAP
600A. DOCKING STATION
10"ø EXHAUST FLUE
550 GAL DAY TANK
450KW GEN SET
6x6 OR 6"ø DN TO BASEMENT
EXISTING EXIT RAMP
EXISTING RAMP TO 2ND PARKING LEVEL
EXISTING TO REMAIN.
EXISTING TO REMAIN.
EXISTING TO REMAIN.
Stair 4 ST4
1.75 sq ft
Loading 114
Storage 113
EUH-A
Special Parking 112
SERVICE AREA
9.44 %
EXISTING ENTRY RAMP
EXISTING ENTRY RAMP
EXISTING EXIT RAMP

VERIFY CONDITION OF EXISTING FEEDERS AND CONNECT TO NEW GENERATOR. PROVIDE 2-HR PROTECTION ON FEEDERS PER RISER.

OUTDOOR AIR CALCULATION							
UNIT	SERVING	AREA	CFM/SF	OCCUPANTS	CFM/PERSON	TOTAL CFM REQ'D	TOTAL CFM PROVIDED
VRF-B1	CORRIDORS/LOBBY	1050	0.06	0	0	63	120
VRF-B2	STORAGE/LOBBY	1371	0.06	0	0	82	0
	OFFICE	188	0.06	4	5	31	
VRF-B3	OFFICE	725	0.06	4	5	64	120
					TOTAL BLDG	240	240

1 1ST FLOOR PLAN

1/8"=1'-0" HVAC

NORTH

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LSA PROJECT NO. 2204006

Strada Architecture

RICHARD R. BEARDMORE
E-76983
04/16/2024

Project Information

7 W 7TH

7 West 7th Street Cincinnati OH 45202

Owner: Victrix LLC
Project Number: **21084**

Revision History

ID	Date	Issue Name
9	12-12-2023	CITY RESPONSE
10	01-04-2024	CITY RESPONSE
11	02-26-2024	NEW GENERATOR
14	04-16-2024	Engineering Change 02

Current Issuance

Date	Project Phase
03.03.23	Permit Set

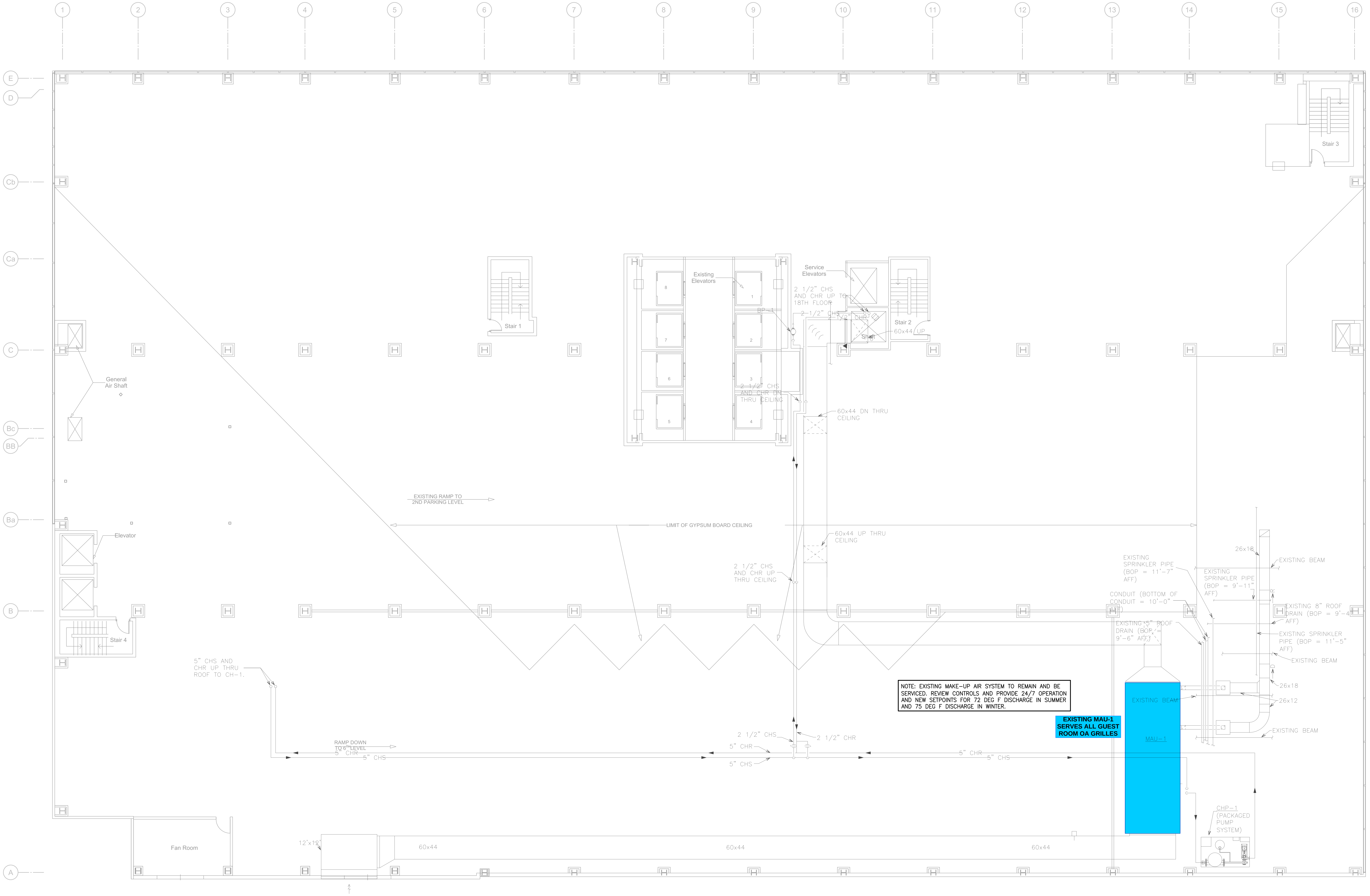
Drawing Title

1ST FLOOR PLAN - HVAC

Sheet Number

M1.02

NOTES:
1. REFER TO SHEET M1.01 FOR NOTES AND LEGEND.


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
E
D
Cb
Ca
C
Bc
BB
Ba
B
A
Stair 3
Stair 1
Existing Elevators
Service Elevators
2 1/2" CHS AND CHR UP TO 18TH FLOOR
BP-1
2 1/2" CHS
2 1/2" CHR
Shaft
Stair 2
60x44 UP
2 1/2" CHS AND CHR DN THRU CEILING
60x44 DN THRU CEILING
General Air Shaft
EXISTING RAMP TO 2ND PARKING LEVEL
LIMIT OF GYPSUM BOARD CEILING
60x44 UP THRU CEILING
2 1/2" CHS AND CHR UP THRU CEILING
Elevator
Stair 4
26x18
EXISTING BEAM
EXISTING SPRINKLER PIPE (BOP = 11'-7" AFF)
EXISTING SPRINKLER PIPE (BOP = 9'-11" AFF)
CONDUIT (BOTTOM OF CONDUIT = 10'-0" AFF)
EXISTING 8" ROOF DRAIN (BOP = 9'-4" AFF)
EXISTING 5" ROOF DRAIN (BOP = 9'-6" AFF)
EXISTING SPRINKLER PIPE (BOP = 11'-5" AFF)
EXISTING BEAM
26x18
26x12
EXISTING BEAM
EXISTING BEAM
MAU-1
5" CHS AND CHR UP THRU ROOF TO CH-1.
RAMP DOWN TO 6TH LEVEL
5" CHR
5" CHS
2 1/2" CHS
2 1/2" CHR
5" CHR
5" CHS
5" CHR
5" CHS
CHP-1 (PACKAGED PUMP SYSTEM)
Fan Room
12"x12"
60x44
60x44
60x44

NOTE: EXISTING MAKE-UP AIR SYSTEM TO REMAIN AND BE SERVICED. REVIEW CONTROLS AND PROVIDE 24/7 OPERATION AND NEW SETPOINTS FOR 72 DEG F DISCHARGE IN SUMMER AND 75 DEG F DISCHARGE IN WINTER.

EXISTING MAU-1 SERVES ALL GUEST ROOM OA GRILLES

1 7TH FLOOR PLAN

1/8"=1'-0" HVAC

NORTH

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LSA PROJECT NO. 2204006

Strada Architecture

RICHARD R. BEARDMORE
E-76983
3/3/2023

Project Information

7 W 7TH

7 West 7th Street Cincinnati OH 45202

Owner: Victrix LLC

Project Number: **21084**

Revision History

ID	Date	Issue Name

Current Issuance

Date	Project Phase
03.03.23	Permit Set

Drawing Title

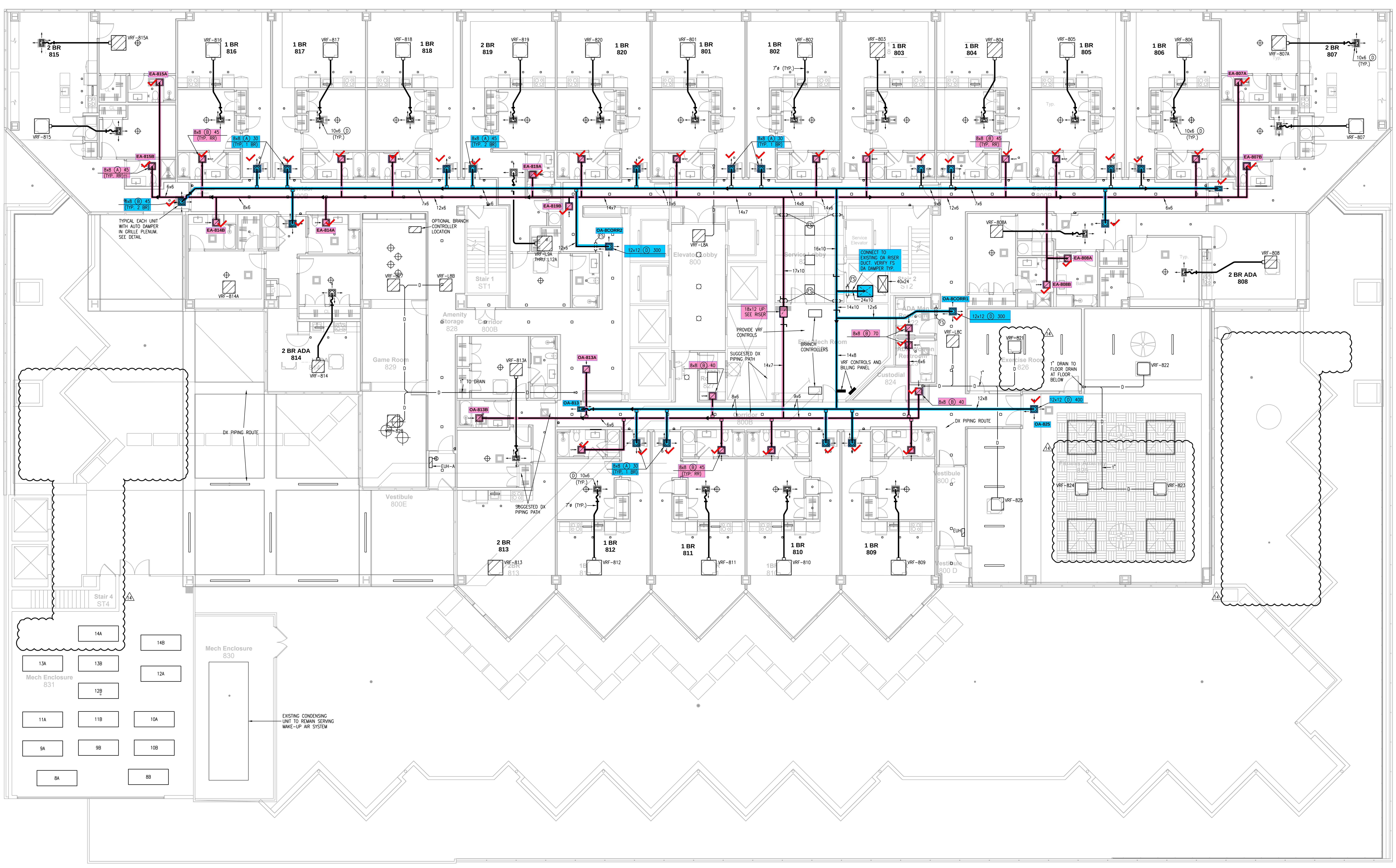
7TH FLOOR PLAN - HVAC

Sheet Number

M1.03

NOTES:

1. REFER TO SHEET M1.01 FOR NOTES AND LEGEND.


2 BR
815
VRF-815A
VRF-815
EA-815A
EA-815B
8x8 (A) 45
(TYP. RR)
8x8 (B) 45
(TYP. 2 BR)
6x6
TYPICAL EACH UNIT
WITH AUTO DAMPER
IN GRILLE PLENUM.
SEE DETAIL
VRF-816
1 BR
816
1 BR
817
VRF-817
VRF-818
1 BR
818
2 BR
819
VRF-819
VRF-820
1 BR
820
VRF-801
1 BR
801
1 BR
802
VRF-802
7"ø (TYP.)
VRF-803
1 BR
803
1 BR
804
VRF-804
VRF-805
1 BR
805
1 BR
806
VRF-806
VRF-807A
2 BR
807
10x6 (D)
(TYP.)
VRF-807
EA-807A
EA-807B
8x8 (B) 45
(TYP. RR)
8x8 (A) 30
(TYP. 1 BR)
8x8 (A) 45
(TYP. 2 BR)
EA-819A
EA-819B
EA-814A
EA-814B
8x6
7x6
12x6
9x6
14x7
11x6
14x8
14x6
OPTIONAL BRANCH
CONTROLLER
LOCATION
VRF-814A
VRF-827
VRF-L8B
Stair 1
ST1
VRF-L9A
THRU L12A
OA-8CORR2
12x12 (D) 300
VRF-L8A
Elevator Lobby
800
Service Lobby
16x10
17x10
Service
Elevator
CONNECT TO
EXISTING OA RISER
DUCT. VERIFY FS
DA DAMPER TYP.
FS
40x24
24x10
Stair 2
ST2
14x10
18x12 UP
SEE RISER
PROVIDE VRF
CONTROLS
BRANCH
CONTROLLERS
Elec/Mech Room
SUGGESTED DX
PIPING PATH
14x7
VRF CONTROLS AND
BILLING PANEL
OA-8CORR1
12x12 (D) 300
8x8 (B) 70
VRF-L8C
ADA Men
Restroom
822
ADA Women
Restroom
823
Custodial
824
VRF-808A
EA-808A
EA-808B
Bath
VRF-808
2 BR ADA
808
Typ.
2 BR ADA
814
VRF-814
Amenity
Storage
828
Corridor
800B
Game Room
829
1" TO DRAIN
OA-813A
OA-813
OA-813B
VRF-813A
8x8 (B) 40
Trash
Room
827
VRF-826
EUH-A
DX PIPING ROUTE
Vestibule
800E
SUGGESTED DX
PIPING PATH
2 BR
813
VRF-813
1 BR
812
VRF-812
1 BR
811
VRF-811
1 BR
810
VRF-810
1 BR
809
VRF-809
10x6 (D)
(TYP.)
7"ø (TYP.)
8x8 (A) 30
(TYP. 1 BR)
8x8 (B) 45
(TYP. RR)
8x8 (B) 40
12x8
12x12 (D) 400
OA-825
DX PIPING ROUTE
VRF-821
Exercise Room
826
1" DRAIN TO
FLOOR DRAIN
AT FLOOR
BELOW
VRF-822
Fitness Amenity
825
VRF-824
VRF-823
VRF-825
1"
EUH
Vestibule
800 C
Vestibule
800 D
14
Stair 4
ST4
Mech Enclosure
831
14A
14B
13A
13B
12A
12B
11A
11B
10A
9A
9B
10B
8A
8B
Mech Enclosure
830
EXISTING CONDENSING
UNIT TO REMAIN SERVING
MAKE-UP AIR SYSTEM

1 **8TH FLOOR PLAN**
1/8"=1'-0" HVAC
NORTH

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LSA PROJECT NO. 2204006

Strada Architecture

STATE OF OHIO
RICHARD R.
BEARDMORE
E-76983
REGISTERED
PROFESSIONAL ENGINEER
04/16/2024

Project Information

7 W 7TH

7 West 7th Street Cincinnati OH 45202

Owner: Victrix LLC

Project Number: **21084**

Revision History

ID	Date	Issue Name
2	03-03-2023	ADDENDUM 2
4	08-01-2023	Addendum 04
13	03-07-2024	RFI # 64
14	04-16-2024	Engineering Change 02

Current Issuance

Date	Project Phase
03.03.23	Permit Set

Drawing Title

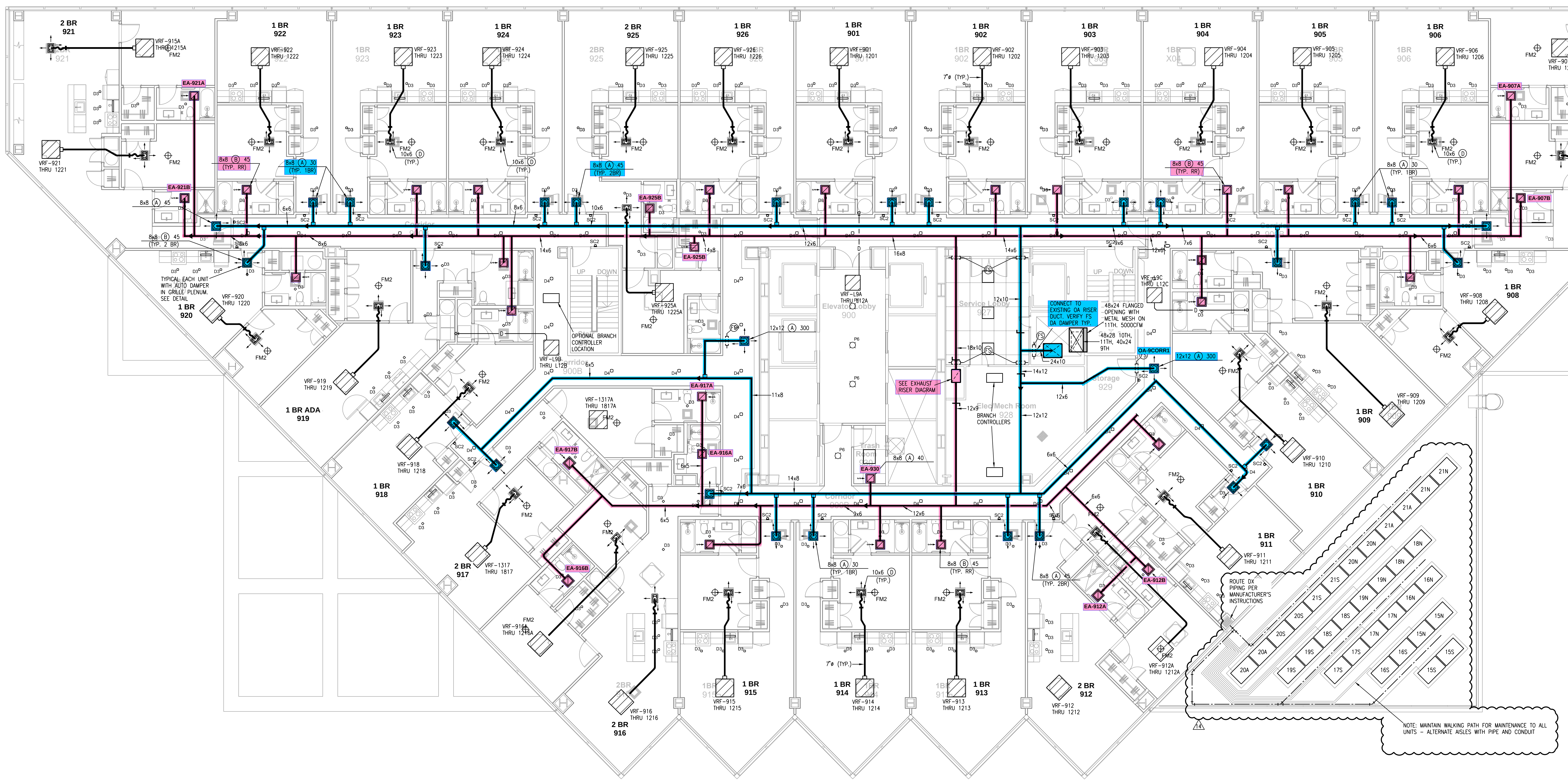
8TH FLOOR PLAN - HVAC

Sheet Number

M1.04

NOTES:

1. REFER TO SHEET M1.01 FOR NOTES AND LEGEND.


2 BR
921
VRF-915A THRU 1215A
FM2
EA-921A
VRF-921 THRU 1221
EA-921B
8x8 (A) 45
8x8 (B) 45 (TYP. RR)
8x8 (A) 30 (TYP. 1BR)
8x8 (B) 45 (TYP. 2 BR)
TYPICAL EACH UNIT WITH AUTO DAMPER IN GRILLE PLENUM. SEE DETAIL
1 BR
920
VRF-920 THRU 1220
1 BR
922
VRF-922 THRU 1222
1 BR
923
VRF-923 THRU 1223
10x6 (D) (TYP.)
1 BR
924
VRF-924 THRU 1224
2 BR
925
VRF-925 THRU 1225
8x8 (A) 45 (TYP. 2BR)
EA-925B
EA-925A
VRF-925A THRU 1225A
1 BR
926
VRF-926 THRU 1226
1 BR
901
VRF-901 THRU 1201
1 BR
902
VRF-902 THRU 1202
7"ø (TYP.)
1 BR
903
VRF-903 THRU 1203
1 BR
904
VRF-904 THRU 1204
8x8 (B) 45 (TYP. RR)
1 BR
905
VRF-905 THRU 1205
1 BR
906
VRF-906 THRU 1206
8x8 (A) 30 (TYP. 1BR)
2 BR
907
VRF-907A THRU 1207A
VRF-907 THRU 1207
EA-907A
EA-907B
1 BR
908
VRF-908 THRU 1208
VRF-L9C THRU L12C
VRF-L9A THRU L12A
Elevator Lobby
900
12x12 (A) 300
OPTIONAL BRANCH CONTROLLER LOCATION
VRF-L9B THRU L12B
Corridor
900B
Service Lobby
927
CONNECT TO EXISTING OA RISER DUCT. VERIFY FS DA DAMPER TYP.
48x24 FLANGED OPENING WITH METAL MESH ON 11TH. 5000CFM
48x28 10TH, 11TH, 40x24 9TH
OA-9CORR1
12x12 (A) 300
SEE EXHAUST RISER DIAGRAM
Elec/Mech Room
928
BRANCH CONTROLLERS
Storage
929
Trash Room
EA-930
8x8 (A) 40
1 BR ADA
919
VRF-919 THRU 1219
VRF-918 THRU 1218
1 BR
918
EA-917A
VRF-1317A THRU 1817A
EA-917B
EA-916A
2 BR
917
VRF-1317 THRU 1817
EA-916B
VRF-916A THRU 1216A
2 BR
916
VRF-916 THRU 1216
1 BR
915
VRF-915 THRU 1215
8x8 (A) 30 (TYP. 1BR)
10x6 (D) (TYP.)
1 BR
914
VRF-914 THRU 1214
7"ø (TYP.)
8x8 (B) 45 (TYP. RR)
1 BR
913
VRF-913 THRU 1213
8x8 (B) 45 (TYP. 2BR)
2 BR
912
VRF-912 THRU 1212
EA-912A
EA-912B
VRF-912A THRU 1212A
1 BR
911
VRF-911 THRU 1211
1 BR
910
VRF-910 THRU 1210
1 BR
909
VRF-909 THRU 1209
ROUTE DX PIPING PER MANUFACTURER'S INSTRUCTIONS
21N
21N
21A
21A
20N
20N
18N
18N
21S
21S
19N
19N
16N
16N
20S
20S
18S
18S
17N
17N
15N
15N
20A
20A
19S
19S
17S
17S
16S
16S
15S
15S
NOTE: MAINTAIN WALKING PATH FOR MAINTENANCE TO ALL UNITS – ALTERNATE AISLES WITH PIPE AND CONDUIT
14

① TYPICAL 9TH FLOOR PLAN

1/8"=1'-0" HVAC

NORTH

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LSA PROJECT NO. 2204006

Strada Architecture

RICHARD R. BEARDMORE
E-76983
04/16/2024

Project Information

7 W 7TH

7 West 7th Street Cincinnati OH 45202

Owner: Victrix LLC

Project Number: **21084**

Revision History

ID	Date	Issue Name
2	03-03-2023	ADDENDUM 2
4	08-01-2023	Addendum 04
13	03-07-2024	RFI # 64
14	04-16-2024	Engineering Change 02

Current Issuance

Date Project Phase
03.03.23 Permit Set

Drawing Title

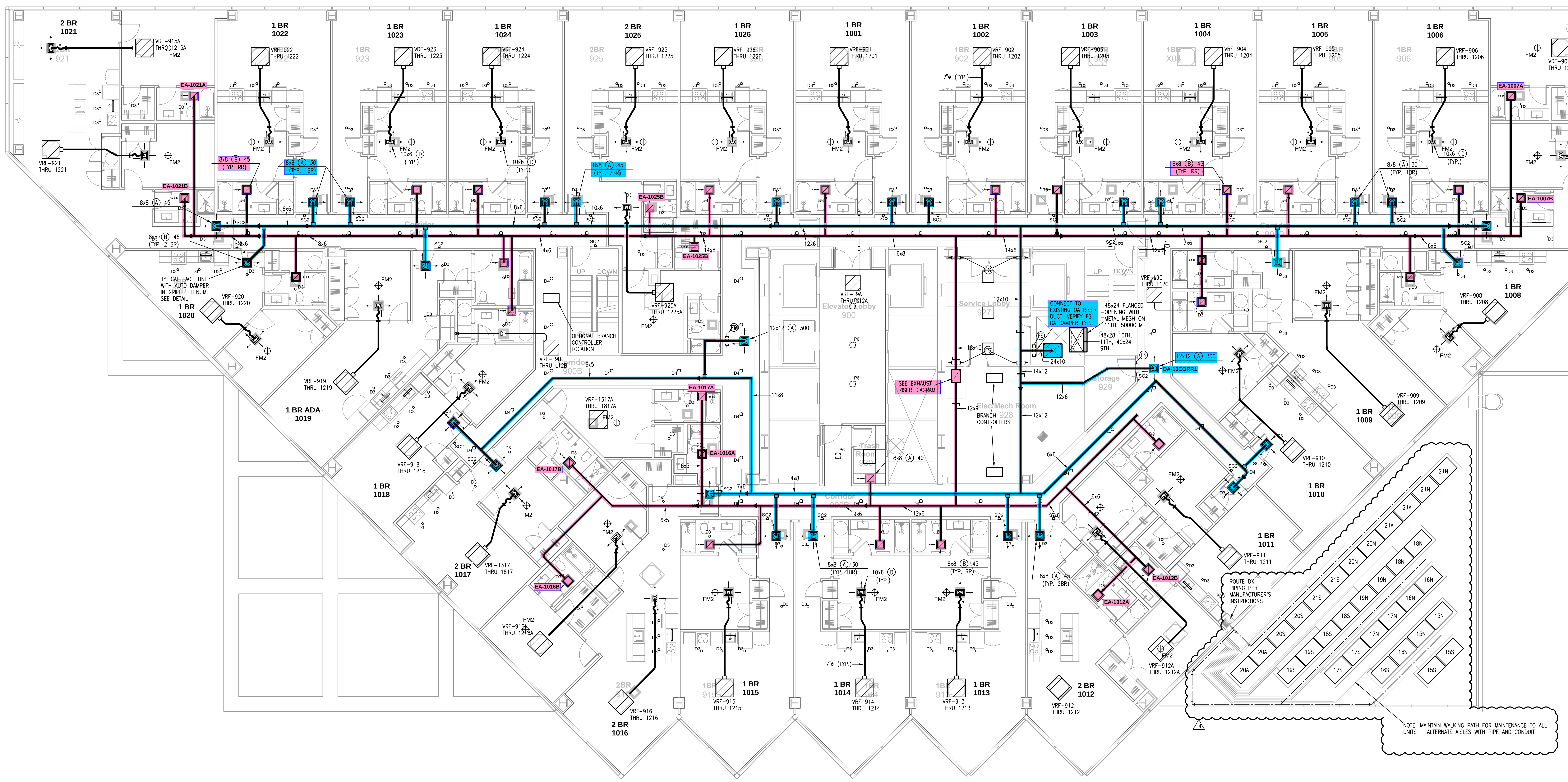
TYPICAL 9TH FLOOR PLAN - HVAC

Sheet Number

M1.05

NOTES:

1. REFER TO SHEET M1.01 FOR NOTES AND LEGEND.


2 BR 1021
VRF-915A THRU 1215A
VRF-921 THRU 1221
EA-1021A
EA-1021B
8x8 Ⓑ 45 (TYP. RR)
8x8 Ⓐ 30 (TYP. 1BR)
8x8 Ⓐ 45
8x8 Ⓑ 45 (TYP. 2 BR)
TYPICAL EACH UNIT WITH AUTO DAMPER IN GRILLE PLENUM. SEE DETAIL
1 BR 1020
VRF-920 THRU 1220
1 BR 1022
VRF-922 THRU 1222
1 BR 1023
VRF-923 THRU 1223
1 BR 1024
VRF-924 THRU 1224
2 BR 1025
VRF-925 THRU 1225
1 BR 1026
VRF-926 THRU 1226
1 BR 1001
VRF-901 THRU 1201
1 BR 1002
VRF-902 THRU 1202
1 BR 1003
VRF-903 THRU 1203
1 BR 1004
VRF-904 THRU 1204
1 BR 1005
VRF-905 THRU 1205
1 BR 1006
VRF-906 THRU 1206
2 BR 1007
VRF-907A THRU 1207A
VRF-907 THRU 1207
EA-1007A
EA-1007B
8x8 Ⓑ 45 (TYP. 2BR)
EA-1025B
VRF-925A THRU 1225A
OPTIONAL BRANCH CONTROLLER LOCATION
VRF-L9B THRU L12B
VRF-L9A THRU L12A
Elevator Lobby 900
12x12 Ⓐ 300
SEE EXHAUST RISER DIAGRAM
Service Lobby 927
CONNECT TO EXISTING OA RISER DUCT. VERIFY FS DA DAMPER TYP.
48x24 FLANGED OPENING WITH METAL MESH ON 11TH. 5000CFM
48x28 10TH, 11TH, 40x24 9TH
VRF-L9C THRU L12C
Elec/Mech Room 928
BRANCH CONTROLLERS
Storage 929
12x12 Ⓐ 300
OA-10CORR1
1 BR 1008
VRF-908 THRU 1208
1 BR 1009
VRF-909 THRU 1209
1 BR 1010
VRF-910 THRU 1210
1 BR 1011
VRF-911 THRU 1211
EA-1012B
EA-1012A
8x8 Ⓑ 45 (TYP. 2BR)
VRF-912A THRU 1212A
2 BR 1012
VRF-912 THRU 1212
ROUTE DX PIPING PER MANUFACTURER'S INSTRUCTIONS
NOTE: MAINTAIN WALKING PATH FOR MAINTENANCE TO ALL UNITS – ALTERNATE AISLES WITH PIPE AND CONDUIT
21N 21A 20N 20S 21S 18N 19N 20A 19S 18S 17N 16N 15N 17S 16S 15S
1 BR 1013
VRF-913 THRU 1213
1 BR 1014
VRF-914 THRU 1214
8x8 Ⓐ 30 (TYP. 1BR)
10x6 Ⓓ (TYP.)
8x8 Ⓑ 45 (TYP. RR)
1 BR 1015
VRF-915 THRU 1215
2 BR 1016
VRF-916 THRU 1216
VRF-916A THRU 1216A
2 BR 1017
VRF-1317 THRU 1817
VRF-1317A THRU 1817A
EA-1017A
EA-1017B
EA-1016A
EA-1016B
1 BR 1018
VRF-918 THRU 1218
1 BR ADA 1019
VRF-919 THRU 1219
Trash Room
8x8 Ⓐ 40
7'ø (TYP.)

TYPICAL 10TH FLOOR PLAN
1 1/8"=1'-0" HVAC

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Email: lsapa@lsapa.com
LSA PROJECT NO. 2204006

Strada Architecture

RICHARD R. BEARDMORE
E-76983
04/16/2024

Project Information

7 W 7TH

7 West 7th Street Cincinnati OH 45202

Owner: Victrix LLC

Project Number: **21084**

Revision History

ID	Date	Issue Name
2	03-03-2023	ADDENDUM 2
4	08-01-2023	Addendum 04
13	03-07-2024	RFI # 64
14	04-16-2024	Engineering Change 02

Current Issuance

Date	Project Phase
03.03.23	Permit Set

Drawing Title

TYPICAL 9TH FLOOR PLAN - HVAC

Sheet Number

M1.05

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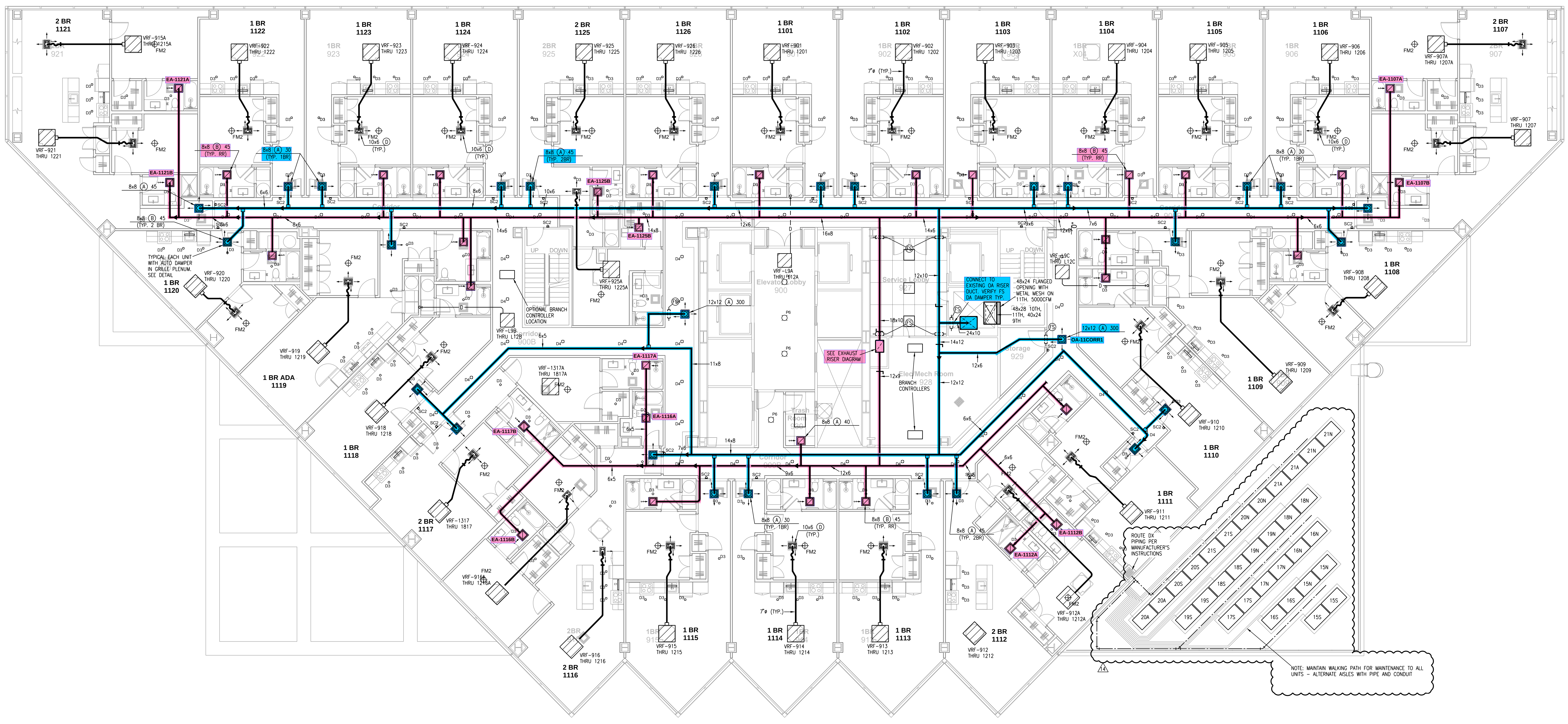
NOTES:
1. REFER TO SHEET M1.01 FOR NOTES AND LEGEND.


2 BR 1121
VRF-915A THRU 1215A
FM2
VRF-921 THRU 1221
EA-1121A
EA-1121B
8x8 (B) 45 (TYP. RR)
8x8 (A) 30 (TYP. 1BR)
8x8 (A) 45
8x8 (B) 45 (TYP. 2 BR)
TYPICAL EACH UNIT WITH AUTO DAMPER IN GRILLE PLENUM. SEE DETAIL
1 BR 1120
VRF-920 THRU 1220
1 BR 1122
VRF-922 THRU 1222
1 BR 1123
VRF-923 THRU 1223
1 BR 1124
VRF-924 THRU 1224
2 BR 1125
VRF-925 THRU 1225
EA-1125B
VRF-925A THRU 1225A
8x8 (A) 45 (TYP. 2BR)
1 BR 1126
VRF-926 THRU 1226
1 BR 1101
VRF-901 THRU 1201
1 BR 1102
VRF-902 THRU 1202
1 BR 1103
VRF-903 THRU 1203
1 BR 1104
VRF-904 THRU 1204
8x8 (B) 45 (TYP. RR)
1 BR 1105
VRF-905 THRU 1205
1 BR 1106
VRF-906 THRU 1206
2 BR 1107
VRF-907A THRU 1207A
VRF-907 THRU 1207
EA-1107A
EA-1107B
8x8 (A) 30 (TYP. 1BR)
10x6 (D) (TYP.)
7"ø (TYP.)
1 BR 1108
VRF-908 THRU 1208
VRF-L9C THRU L12C
CONNECT TO EXISTING OA RISER DUCT. VERIFY FS DA DAMPER TYP.
48x24 FLANGED OPENING WITH METAL MESH ON 11TH. 5000CFM
48x28 10TH, 11TH, 40x24 9TH
12x12 (A) 300
OA-11CORR1
Service Lobby 927
Elevator Lobby 900
VRF-L9A THRU L12A
12x12 (A) 300
OPTIONAL BRANCH CONTROLLER LOCATION
VRF-L9B THRU L12B
Corridor 900B
SEE EXHAUST RISER DIAGRAM
Elec/Mech Room 928
BRANCH CONTROLLERS
Storage 929
Trash Room
8x8 (A) 40
1 BR 1109
VRF-909 THRU 1209
1 BR 1110
VRF-910 THRU 1210
1 BR 1111
VRF-911 THRU 1211
EA-1112A
EA-1112B
2 BR 1112
VRF-912 THRU 1212
VRF-912A THRU 1212A
8x8 (A) 45 (TYP. 2BR)
ROUTE DX PIPING PER MANUFACTURER'S INSTRUCTIONS
NOTE: MAINTAIN WALKING PATH FOR MAINTENANCE TO ALL UNITS – ALTERNATE AISLES WITH PIPE AND CONDUIT
21N 21A 20N 18N 19N 16N 21S 20S 18S 17N 15N 20A 19S 17S 16S 15S
14
1 BR 1113
VRF-913 THRU 1213
8x8 (B) 45 (TYP. RR)
1 BR 1114
VRF-914 THRU 1214
8x8 (A) 30 (TYP. 1BR)
10x6 (D) (TYP.)
7"ø (TYP.)
1 BR 1115
VRF-915 THRU 1215
2 BR 1116
VRF-916 THRU 1216
VRF-916A THRU 1216A
EA-1116A
EA-1116B
EA-1117A
EA-1117B
2 BR 1117
VRF-1317 THRU 1817
VRF-1317A THRU 1817A
1 BR 1118
VRF-918 THRU 1218
1 BR ADA 1119
VRF-919 THRU 1219
FM2
D3
D4
SC2
FS
14x6 12x6 16x8 9x6 7x6 12x10 18x10 24x10 14x12 12x9 12x12 12x6 11x8 14x8 10x6 6x6 8x6 6x5 3x6 14x8 7x6

① TYPICAL 11TH FLOOR PLAN
1/8"=1'-0"
HVAC

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Strada Architecture

RICHARD R. BEARDMORE
E-76983
04/16/2024

Project Information

7 W 7TH

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Owner: Victrix LLC

Project Number: **21084**

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4	08-01-2023	Addendum 04
13	03-07-2024	RFI # 64
14	04-16-2024	Engineering Change 02

Current Issuance

Date	Project Phase
03.03.23	Permit Set

Drawing Title

TYPICAL 9TH FLOOR PLAN - HVAC

Sheet Number

M1.05

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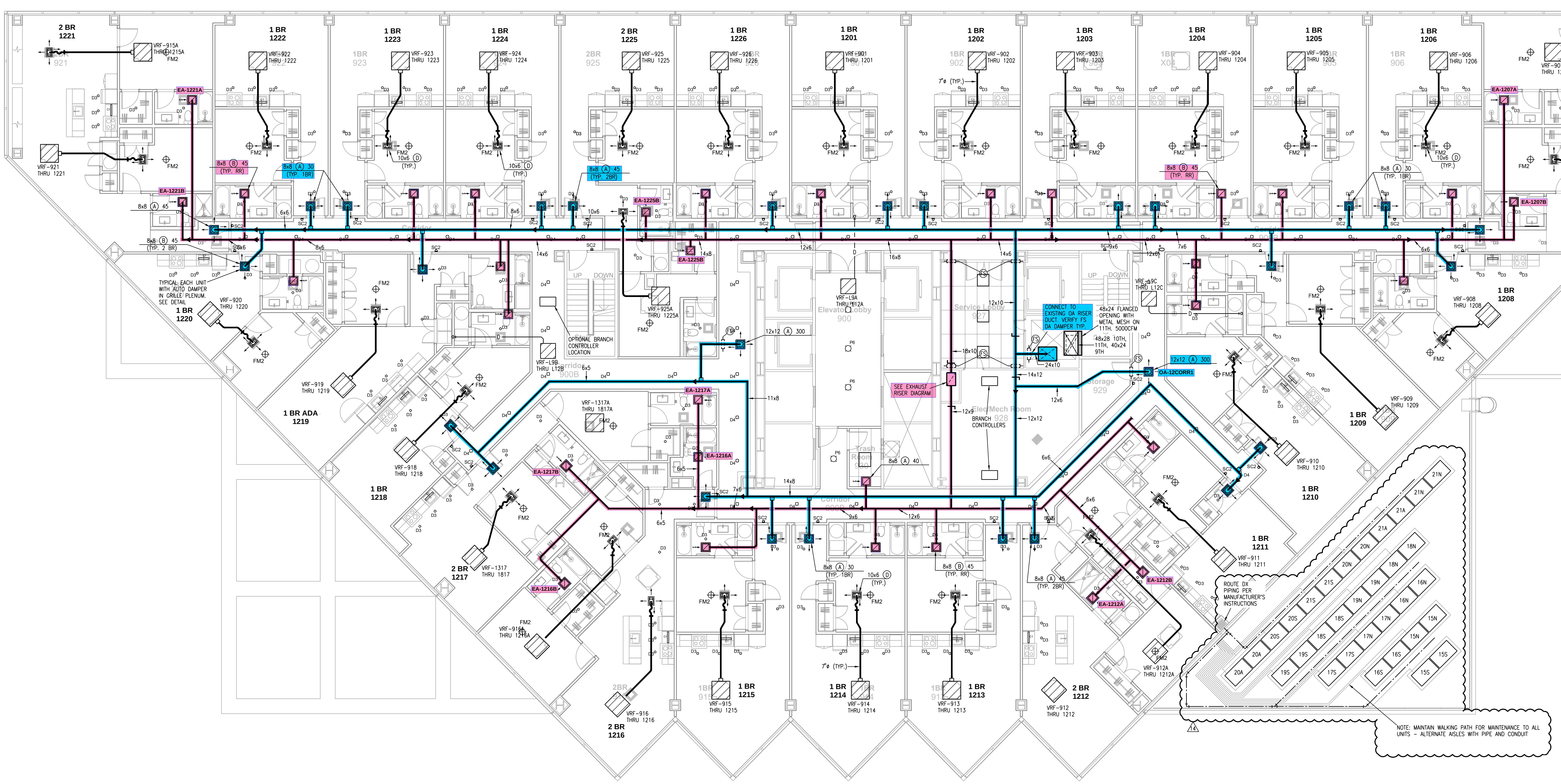

2 BR 1221
VRF-915A THRU 1215A
VRF-921 THRU 1221
1 BR 1222
VRF-922 THRU 1222
1 BR 1223
VRF-923 THRU 1223
1 BR 1224
VRF-924 THRU 1224
2 BR 1225
VRF-925 THRU 1225
1 BR 1226
VRF-926 THRU 1226
1 BR 1201
VRF-901 THRU 1201
1 BR 1202
VRF-902 THRU 1202
1 BR 1203
VRF-903 THRU 1203
1 BR 1204
VRF-904 THRU 1204
1 BR 1205
VRF-905 THRU 1205
1 BR 1206
VRF-906 THRU 1206
2 BR 1207
VRF-907A THRU 1207A
VRF-907 THRU 1207
EA-1221A
EA-1221B
EA-1225B
EA-1207A
EA-1207B
8x8 (B) 45 (TYP. RR)
8x8 (A) 30 (TYP. 1BR)
8x8 (A) 45
8x8 (B) 45 (TYP. 2 BR)
8x8 (B) 45 (TYP. 2BR)
8x8 (A) 30 (TYP. 1BR)
10x6 (D) (TYP.)
7"⌀ (TYP.)
TYPICAL EACH UNIT WITH AUTO DAMPER IN GRILLE PLENUM. SEE DETAIL
1 BR 1220
VRF-920 THRU 1220
VRF-919 THRU 1219
1 BR ADA 1219
VRF-918 THRU 1218
1 BR 1218
2 BR 1217
VRF-1317 THRU 1817
VRF-916A THRU 1216A
EA-1217A
EA-1217B
EA-1216A
EA-1216B
VRF-1317A THRU 1817A
VRF-925A THRU 1225A
VRF-L9B THRU L12B
OPTIONAL BRANCH CONTROLLER LOCATION
12x12 (A) 300
VRF-L9A THRU L12A
Elevator Lobby 900
SEE EXHAUST RISER DIAGRAM
8x8 (A) 40
Service Lobby 927
CONNECT TO EXISTING OA RISER DUCT. VERIFY FS DA DAMPER TYP.
48x24 FLANGED OPENING WITH METAL MESH ON 11TH. 5000CFM
48x28 10TH, 11TH, 40x24 9TH
VRF-L9C THRU L12C
12x12 (A) 300
OA-12CORR1
Elec/Mech Room 928
BRANCH CONTROLLERS
Storage 929
1 BR 1208
VRF-908 THRU 1208
1 BR 1209
VRF-909 THRU 1209
1 BR 1210
VRF-910 THRU 1210
1 BR 1211
VRF-911 THRU 1211
EA-1212A
EA-1212B
VRF-912A THRU 1212A
2 BR 1212
VRF-912 THRU 1212
1 BR 1213
VRF-913 THRU 1213
1 BR 1214
VRF-914 THRU 1214
1 BR 1215
VRF-915 THRU 1215
2 BR 1216
VRF-916 THRU 1216
8x8 (A) 30 (TYP. 1BR)
8x8 (B) 45 (TYP. RR)
8x8 (B) 45 (TYP. 2BR)
ROUTE DX PIPING PER MANUFACTURER'S INSTRUCTIONS
21N
21A
21A
20N
20N
21S
21S
20S
20S
20A
20A
18N
18N
19N
19N
18S
18S
19S
19S
16N
16N
17N
17N
17S
17S
15N
15N
16S
16S
15S
15S
14
NOTE: MAINTAIN WALKING PATH FOR MAINTENANCE TO ALL UNITS – ALTERNATE AISLES WITH PIPE AND CONDUIT

① TYPICAL 12TH FLOOR PLAN

1/8"=1'-0"

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LSA PROJECT NO. 2204006

Strada Architecture

RICHARD R. BEARDMORE
E-76983
04/16/2024

Project Information

7 W 7TH

7 West 7th Street Cincinnati OH 45202

Owner: Victrix LLC

Project Number: **21084**

Revision History

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Current Issuance

Date	Project Phase
03.03.23	Permit Set

Drawing Title

TYPICAL 9TH FLOOR PLAN - HVAC

Sheet Number

M1.05

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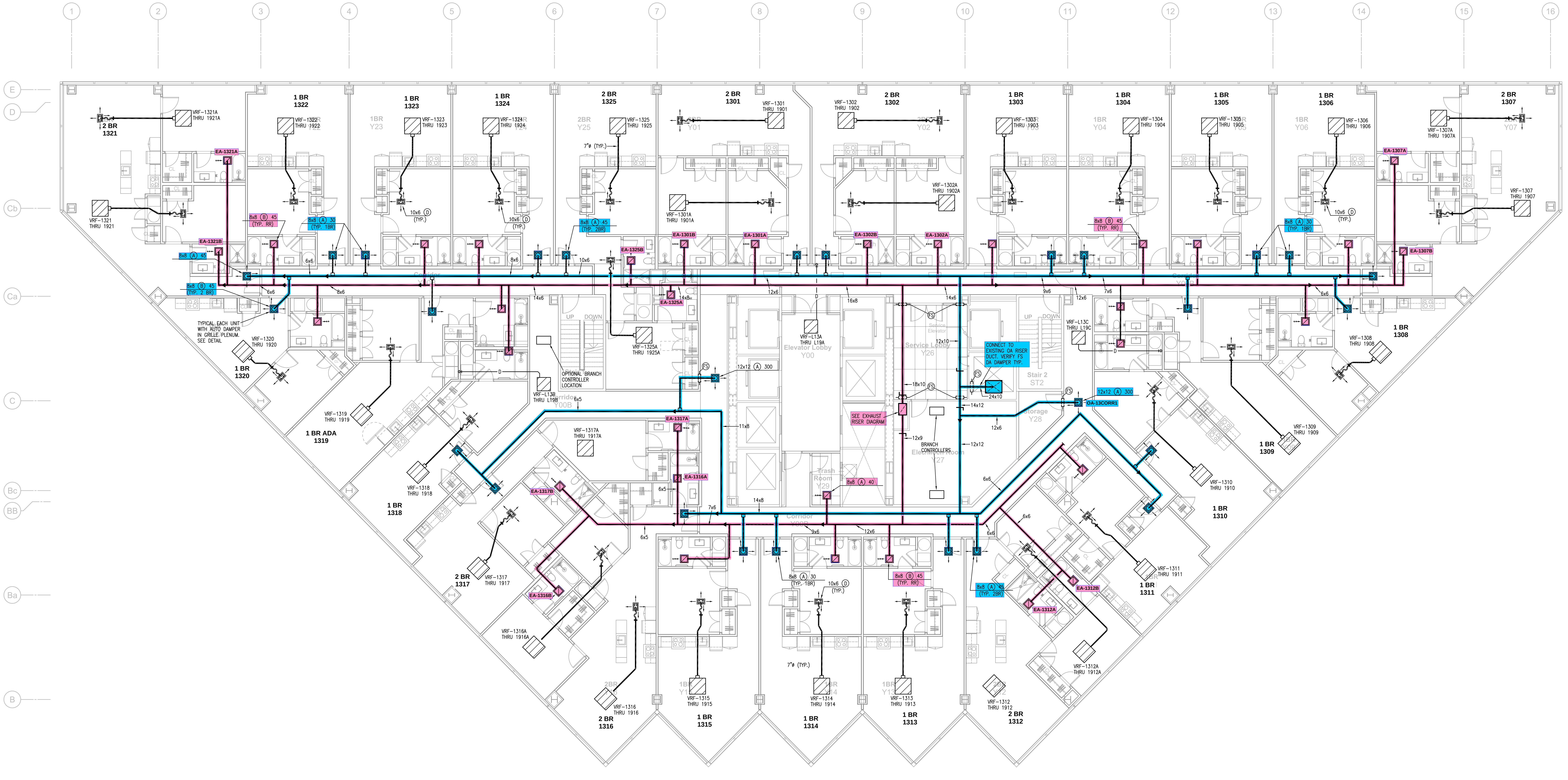
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14
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16
E
D
Cb
Ca
C
Bc
BB
Ba
B
A
2 BR
1321
VRF-1321A
THRU 1921A
VRF-1321
THRU 1921
EA-1321A
EA-1321B
8x8 (A) 45
8x8 (B) 45
(TYP. 2 BR)
8x8 (B) 45
(TYP. RR)
8x8 (A) 30
(TYP. 1BR)
TYPICAL EACH UNIT
WITH AUTO DAMPER
IN GRILLE PLENUM.
SEE DETAIL
1 BR
1322
VRF-1322
THRU 1922
1 BR
1323
VRF-1323
THRU 1923
1 BR
1324
VRF-1324
THRU 1924
10x6 (D)
(TYP.)
2 BR
1325
VRF-1325
THRU 1925
7"ø (TYP.)
8x8 (A) 45
(TYP. 2BR)
EA-1325B
EA-1325A
VRF-1325A
THRU 1925A
2 BR
1301
VRF-1301
THRU 1901
VRF-1301A
THRU 1901A
EA-1301B
EA-1301A
2 BR
1302
VRF-1302
THRU 1902
VRF-1302A
THRU 1902A
EA-1302B
EA-1302A
1 BR
1303
VRF-1303
THRU 1903
1 BR
1304
VRF-1304
THRU 1904
1 BR
1305
VRF-1305
THRU 1905
1 BR
1306
VRF-1306
THRU 1906
2 BR
1307
VRF-1307A
THRU 1907A
VRF-1307
THRU 1907
EA-1307A
EA-1307B
1 BR
1308
VRF-1308
THRU 1908
1 BR
1309
VRF-1309
THRU 1909
1 BR
1310
VRF-1310
THRU 1910
1 BR
1311
VRF-1311
THRU 1911
2 BR
1312
VRF-1312
THRU 1912
VRF-1312A
THRU 1912A
EA-1312A
EA-1312B
1 BR
1313
VRF-1313
THRU 1913
1 BR
1314
VRF-1314
THRU 1914
1 BR
1315
VRF-1315
THRU 1915
2 BR
1316
VRF-1316
THRU 1916
VRF-1316A
THRU 1916A
EA-1316A
EA-1316B
2 BR
1317
VRF-1317
THRU 1917
VRF-1317A
THRU 1917A
EA-1317A
EA-1317B
1 BR
1318
VRF-1318
THRU 1918
1 BR ADA
1319
VRF-1319
THRU 1919
1 BR
1320
VRF-1320
THRU 1920
VRF-L13A
THRU L19A
VRF-L13B
THRU L19B
VRF-L13C
THRU L19C
OPTIONAL BRANCH
CONTROLLER
LOCATION
BRANCH
CONTROLLERS
SEE EXHAUST
RISER DIAGRAM
CONNECT TO
EXISTING OA RISER
DUCT. VERIFY FS
DA DAMPER TYP.
12x12 (A) 300
OA-13CORR1
8x8 (A) 40
FS
D
UP
DOWN
Elevator Lobby
Y00
Service Lobby
Y26
Service Elevator
Stair 2
ST2
Storage
Y28
Elec/Mech Room
Y27
Trash Room
Y29
Corridor
Y00B
6x6
8x6
14x6
10x6
12x6
14x8
16x8
9x6
7x6
12x10
18x10
24x10
14x12
12x9
12x12
11x8
6x5
CL

1 TYPICAL 13TH FLOOR PLAN

1/8"=1'-0"

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LSA PROJECT NO. 2204006

Strada Architecture

RICHARD R.
BEARDMORE
E-76983

3/3/2023

Project Information

7 W 7TH

7 West 7th Street Cincinnati OH 45202

Owner: Victrix LLC

Project Number: **21084**

Revision History

ID	Date	Issue Name

Current Issuance

Date	Project Phase
03.03.23	Permit Set

Drawing Title

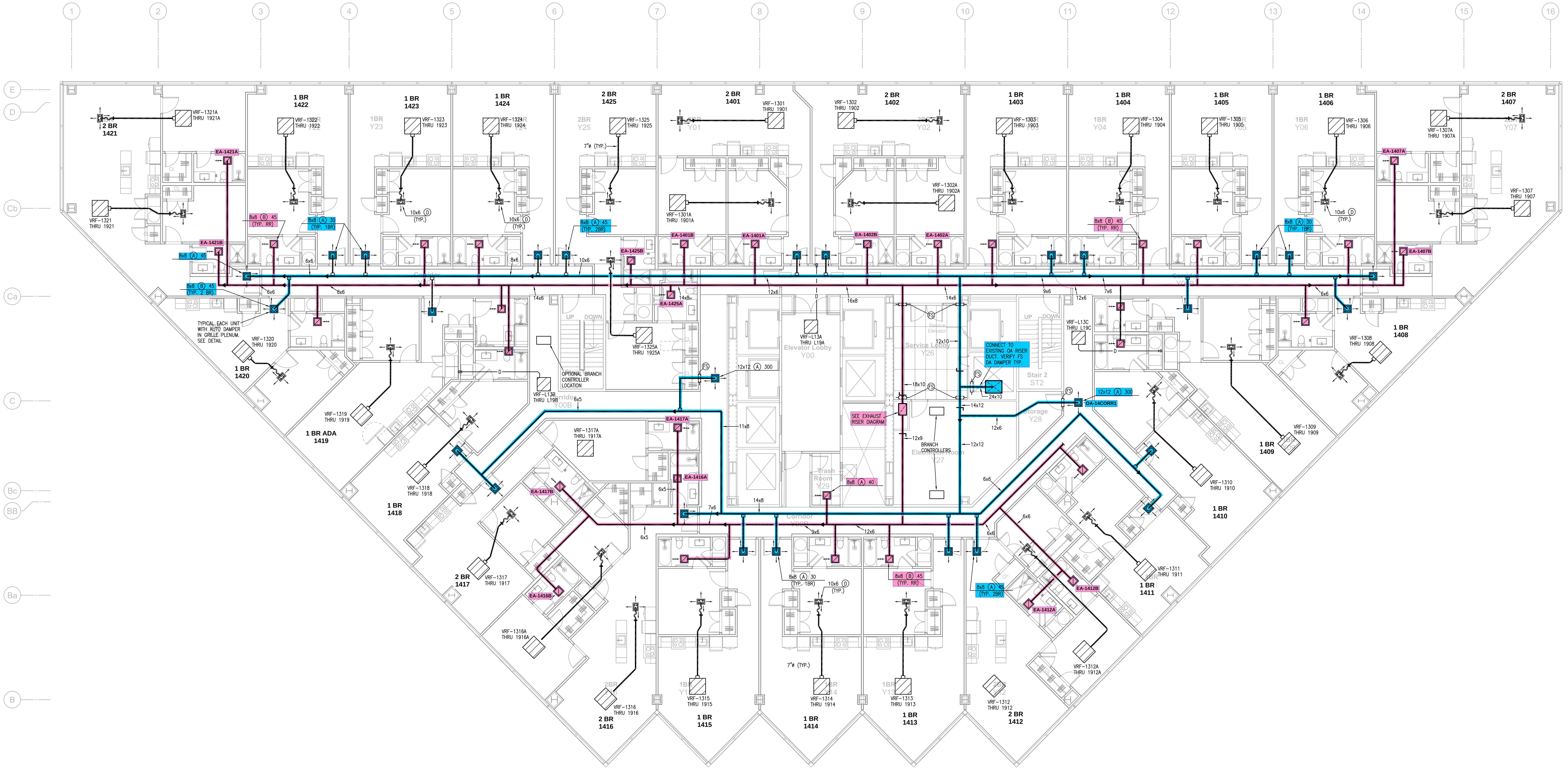
TYPICAL 13TH-18TH FLOOR PLAN - HVAC

Sheet Number

M1.06

NOTES:

1. REFER TO SHEET M1.01 FOR NOTES AND LEGEND.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D
Cb
Ca
C
Bc
BB
Ba
B
2 BR 1421
VRF-1321A THRU 1921A
VRF-1321 THRU 1921
EA-1421A
EA-1421B
8x8 (A) 45
8x8 (B) 45 (TYP. 2 BR)
6x6
8x6
TYPICAL EACH UNIT WITH AUTO DAMPER IN GRILLE PLENUM. SEE DETAIL
VRF-1320 THRU 1920
1 BR 1420
1 BR 1422
VRF-1322 THRU 1922
8x8 (B) 45 (TYP. RR)
8x8 (A) 30 (TYP. 1BR)
1 BR 1423
VRF-1323 THRU 1923
10x6 (D) (TYP.)
1 BR 1424
VRF-1324 THRU 1924
14x6
VRF-1319 THRU 1919
1 BR ADA 1419
VRF-1318 THRU 1918
1 BR 1418
OPTIONAL BRANCH CONTROLLER LOCATION
VRF-L13B THRU L19B
Corridor Y00B
6x5
2 BR 1425
VRF-1325 THRU 1925
7"ø (TYP.)
8x8 (A) 45 (TYP. 2BR)
10x6
EA-1425B
EA-1425A
14x8
VRF-1325A THRU 1925A
UP
DOWN
2 BR 1401
VRF-1301 THRU 1901
VRF-1301A THRU 1901A
EA-1401B
EA-1401A
12x6
D
VRF-L13A THRU L19A
Elevator Lobby Y00
16x8
FS
12x12 (A) 300
2 BR 1402
VRF-1302 THRU 1902
VRF-1302A THRU 1902A
EA-1402B
EA-1402A
Service Elevator
Service Lobby Y26
12x10
18x10
CONNECT TO EXISTING OA RISER DUCT. VERIFY FS DA DAMPER TYP.
24x10
14x12
SEE EXHAUST RISER DIAGRAM
12x9
BRANCH CONTROLLERS
Elec/Mech Room Y27
12x12
11x8
Trash Room Y29
8x8 (A) 40
14x8
Stair 2 ST2
Storage Y28
12x6
1 BR 1403
VRF-1303 THRU 1903
9x6
VRF-L13C THRU L19C
1 BR 1404
VRF-1304 THRU 1904
7x6
1 BR 1405
VRF-1305 THRU 1905
1 BR 1406
VRF-1306 THRU 1906
2 BR 1407
VRF-1307A THRU 1907A
VRF-1307 THRU 1907
EA-1407A
EA-1407B
1 BR 1408
VRF-1308 THRU 1908
12x12 (A) 300
OA-14CORR1
1 BR 1409
VRF-1309 THRU 1909
VRF-1310 THRU 1910
1 BR 1410
VRF-1311 THRU 1911
1 BR 1411
EA-1412B
EA-1412A
VRF-1312A THRU 1912A
VRF-1312 THRU 1912
2 BR 1412
VRF-1313 THRU 1913
1 BR 1413
VRF-1314 THRU 1914
1 BR 1414
VRF-1315 THRU 1915
1 BR 1415
VRF-1316 THRU 1916
2 BR 1416
VRF-1316A THRU 1916A
EA-1416B
EA-1417B
EA-1417A
EA-1416A
VRF-1317A THRU 1917A
VRF-1317 THRU 1917
2 BR 1417
Corridor Y00B
7x6
6x5
9x6
6x6

1 TYPICAL 14TH FLOOR PLAN

1/8"=1'-0"
HVAC

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LSA PROJECT NO. 2204006

Strada Architecture

STATE OF OHIO
RICHARD R. BEARDMORE
E-76983
REGISTERED PROFESSIONAL ENGINEER
3/3/2023

Project Information

7 W 7TH

7 West 7th Street Cincinnati OH 45202

Owner: Victrix LLC
Project Number: **21084**

Revision History

ID	Date	Issue Name

Current Issuance

Date	Project Phase
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Drawing Title

TYPICAL 13TH-18TH FLOOR PLAN - HVAC

Sheet Number

M1.06

NOTES:

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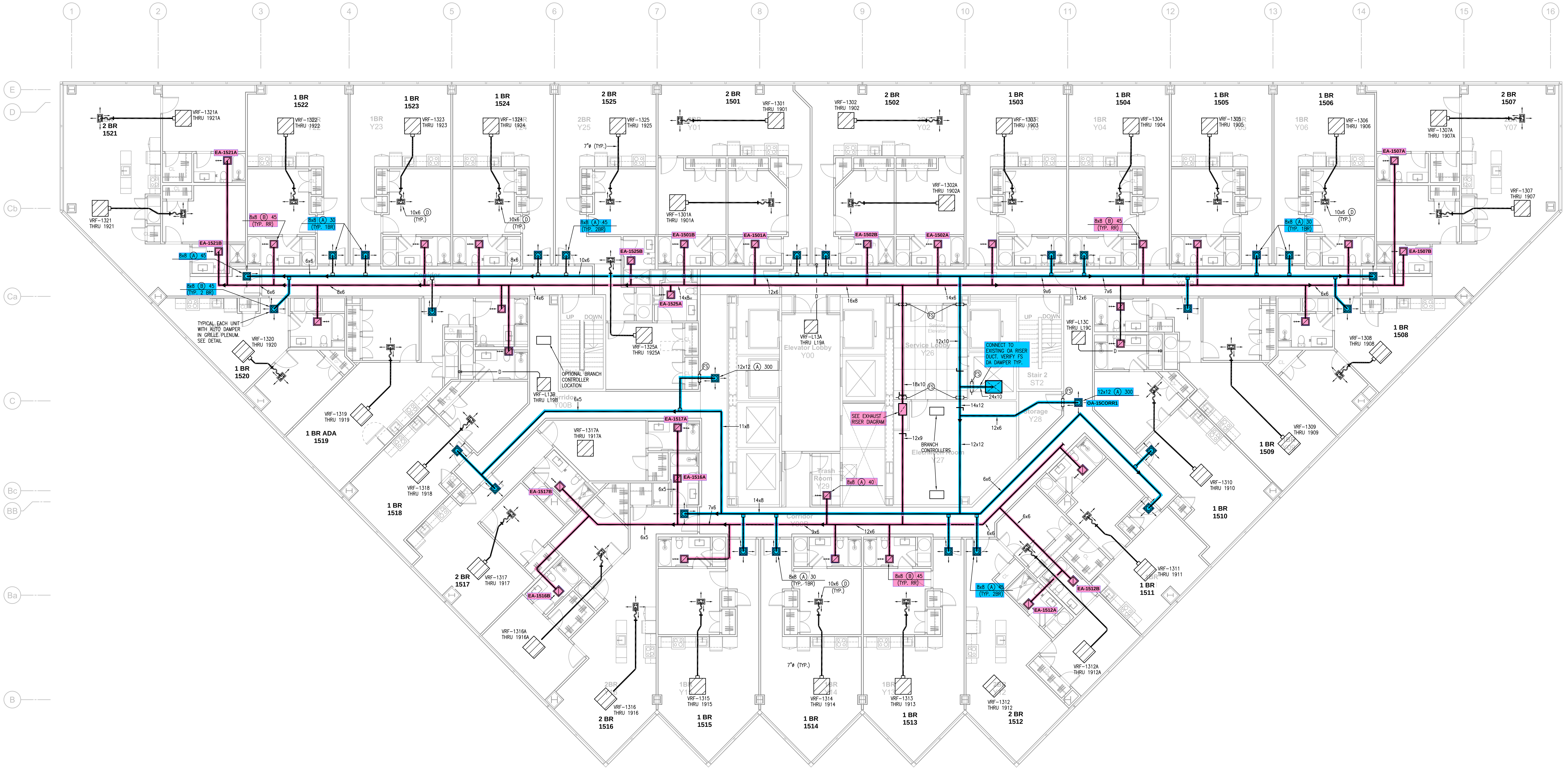
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D
Cb
Ca
C
Bc
BB
Ba
B
2 BR 1521
VRF-1321A THRU 1921A
VRF-1321 THRU 1921
EA-1521A
EA-1521B
8x8 Ⓐ 45
8x8 Ⓑ 45 (TYP. 2 BR)
TYPICAL EACH UNIT WITH AUTO DAMPER IN GRILLE PLENUM. SEE DETAIL
1 BR 1522
VRF-1322 THRU 1922
8x8 Ⓑ 45 (TYP. RR)
8x8 Ⓐ 30 (TYP. 1BR)
1 BR 1523
VRF-1323 THRU 1923
10x6 Ⓓ (TYP.)
1 BR 1524
VRF-1324 THRU 1924
2 BR 1525
VRF-1325 THRU 1925
7"ø (TYP.)
8x8 Ⓐ 45 (TYP. 2BR)
EA-1525B
EA-1525A
VRF-1325A THRU 1925A
2 BR 1501
VRF-1301 THRU 1901
VRF-1301A THRU 1901A
EA-1501B
EA-1501A
2 BR 1502
VRF-1302 THRU 1902
VRF-1302A THRU 1902A
EA-1502B
EA-1502A
1 BR 1503
VRF-1303 THRU 1903
1 BR 1504
VRF-1304 THRU 1904
1 BR 1505
VRF-1305 THRU 1905
1 BR 1506
VRF-1306 THRU 1906
2 BR 1507
VRF-1307A THRU 1907A
VRF-1307 THRU 1907
EA-1507A
EA-1507B
1 BR 1508
VRF-1308 THRU 1908
1 BR 1509
VRF-1309 THRU 1909
1 BR 1510
VRF-1310 THRU 1910
1 BR 1511
VRF-1311 THRU 1911
EA-1512B
EA-1512A
VRF-1312A THRU 1912A
2 BR 1512
VRF-1312 THRU 1912
1 BR 1513
VRF-1313 THRU 1913
1 BR 1514
VRF-1314 THRU 1914
1 BR 1515
VRF-1315 THRU 1915
2 BR 1516
VRF-1316 THRU 1916
VRF-1316A THRU 1916A
EA-1516B
EA-1516A
2 BR 1517
VRF-1317 THRU 1917
VRF-1317A THRU 1917A
EA-1517A
EA-1517B
1 BR 1518
VRF-1318 THRU 1918
1 BR ADA 1519
VRF-1319 THRU 1919
1 BR 1520
VRF-1320 THRU 1920
VRF-L13A THRU L19A
Elevator Lobby Y00
VRF-L13B THRU L19B
OPTIONAL BRANCH CONTROLLER LOCATION
Corridor Y00B
VRF-L13C THRU L19C
12x12 Ⓐ 300
CONNECT TO EXISTING OA RISER DUCT. VERIFY FS DA DAMPER TYP.
OA-15CORR1
SEE EXHAUST RISER DIAGRAM
BRANCH CONTROLLERS
Elec/Mech Room Y27
Service Lobby Y26
Service Elevator
Stair 2 ST2
Storage Y28
Trash Room Y29
8x8 Ⓐ 40
FS
UP
DOWN
D
6x6
8x6
14x6
10x6
12x6
14x8
16x8
9x6
7x6
12x10
18x10
24x10
14x12
12x9
12x12
11x8
6x5
9x6
12x6
7x6
6x6
CL

TYPICAL 15TH FLOOR PLAN

1/8"=1'-0"

HVAC

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LSA PROJECT NO. 2204006

Strada Architecture

RICHARD R. BEARDMORE
E-76983
3/3/2023

Project Information

7 W 7TH

7 West 7th Street Cincinnati OH 45202

Owner: Victrix LLC

Project Number: **21084**

Revision History

ID	Date	Issue Name

Current Issuance

Date	Project Phase
03.03.23	Permit Set

Drawing Title

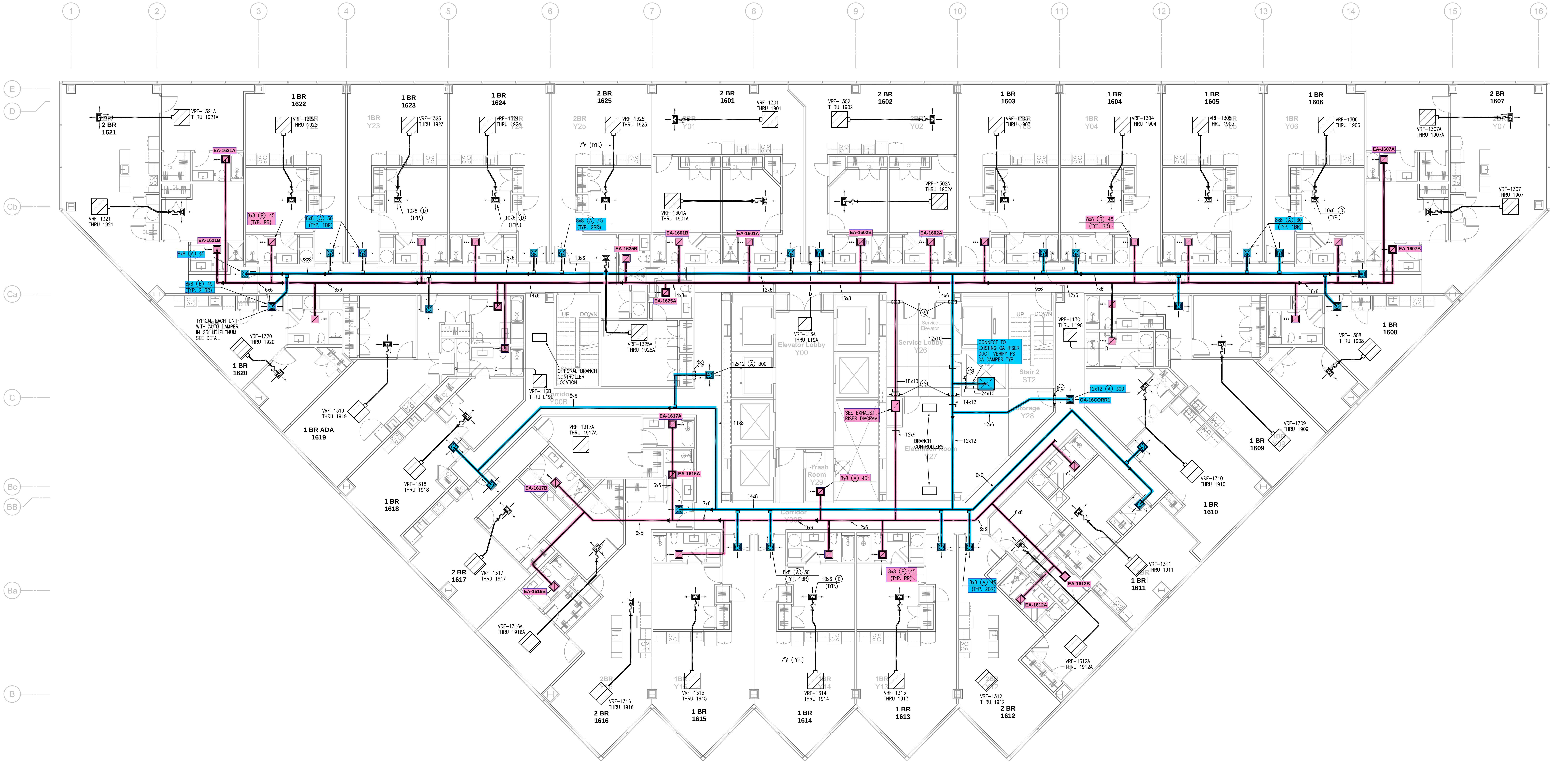
TYPICAL 13TH-18TH FLOOR PLAN - HVAC

Sheet Number

M1.06

NOTES:

1. REFER TO SHEET M1.01 FOR NOTES AND LEGEND.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2 BR 1621
1 BR 1622
1 BR 1623
1 BR 1624
2 BR 1625
2 BR 1601
2 BR 1602
1 BR 1603
1 BR 1604
1 BR 1605
1 BR 1606
2 BR 1607
1 BR 1608
1 BR 1609
1 BR 1610
1 BR 1611
2 BR 1612
1 BR 1613
1 BR 1614
1 BR 1615
2 BR 1616
2 BR 1617
1 BR 1618
1 BR ADA 1619
1 BR 1620
VRF-1321A THRU 1921A
VRF-1321 THRU 1921
VRF-1322 THRU 1922
VRF-1323 THRU 1923
VRF-1324 THRU 1924
VRF-1325 THRU 1925
VRF-1325A THRU 1925A
VRF-1301 THRU 1901
VRF-1301A THRU 1901A
VRF-1302 THRU 1902
VRF-1302A THRU 1902A
VRF-1303 THRU 1903
VRF-1304 THRU 1904
VRF-1305 THRU 1905
VRF-1306 THRU 1906
VRF-1307 THRU 1907
VRF-1307A THRU 1907A
VRF-1308 THRU 1908
VRF-1309 THRU 1909
VRF-1310 THRU 1910
VRF-1311 THRU 1911
VRF-1312 THRU 1912
VRF-1312A THRU 1912A
VRF-1313 THRU 1913
VRF-1314 THRU 1914
VRF-1315 THRU 1915
VRF-1316 THRU 1916
VRF-1316A THRU 1916A
VRF-1317 THRU 1917
VRF-1317A THRU 1917A
VRF-1318 THRU 1918
VRF-1319 THRU 1919
VRF-1320 THRU 1920
VRF-L13A THRU L19A
VRF-L13B THRU L19B
VRF-L13C THRU L19C
EA-1621A
EA-1621B
EA-1625A
EA-1625B
EA-1601A
EA-1601B
EA-1602A
EA-1602B
EA-1607A
EA-1607B
EA-1617A
EA-1617B
EA-1616A
EA-1616B
EA-1612A
EA-1612B
OA-16CORR1
8x8 Ⓐ 40
8x8 Ⓑ 45 (TYP. 2 BR)
8x8 Ⓑ 45 (TYP. 1BR)
8x8 Ⓐ 30 (TYP. 1BR)
8x8 Ⓐ 45 (TYP. 2BR)
10x6 Ⓓ (TYP.)
12x12 Ⓐ 300
7"ø (TYP.)
TYPICAL EACH UNIT WITH AUTO DAMPER IN GRILLE PLENUM. SEE DETAIL
OPTIONAL BRANCH CONTROLLER LOCATION
CONNECT TO EXISTING OA RISER DUCT. VERIFY FS OA DAMPER TYP.
SEE EXHAUST RISER DIAGRAM
BRANCH CONTROLLERS
Elevator Lobby Y00
Service Lobby Y26
Stair 2 ST2
Storage Y28
Trash Room Y29
Electrical Room Y27
Corridor Y00B
UP
DOWN
6x6
8x6
14x6
12x6
10x6
16x8
9x6
7x6
14x5
11x8
12x10
18x10
24x10
14x12
12x9
12x12
14x8
6x5

TYPICAL 16TH FLOOR PLAN

1/8"=1'-0"

HVAC

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Strada Architecture

RICHARD R. BEARDMORE
E-76983

3/3/2023

Project Information

7 W 7TH

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Owner: Victrix LLC
Project Number: **21084**

Revision History

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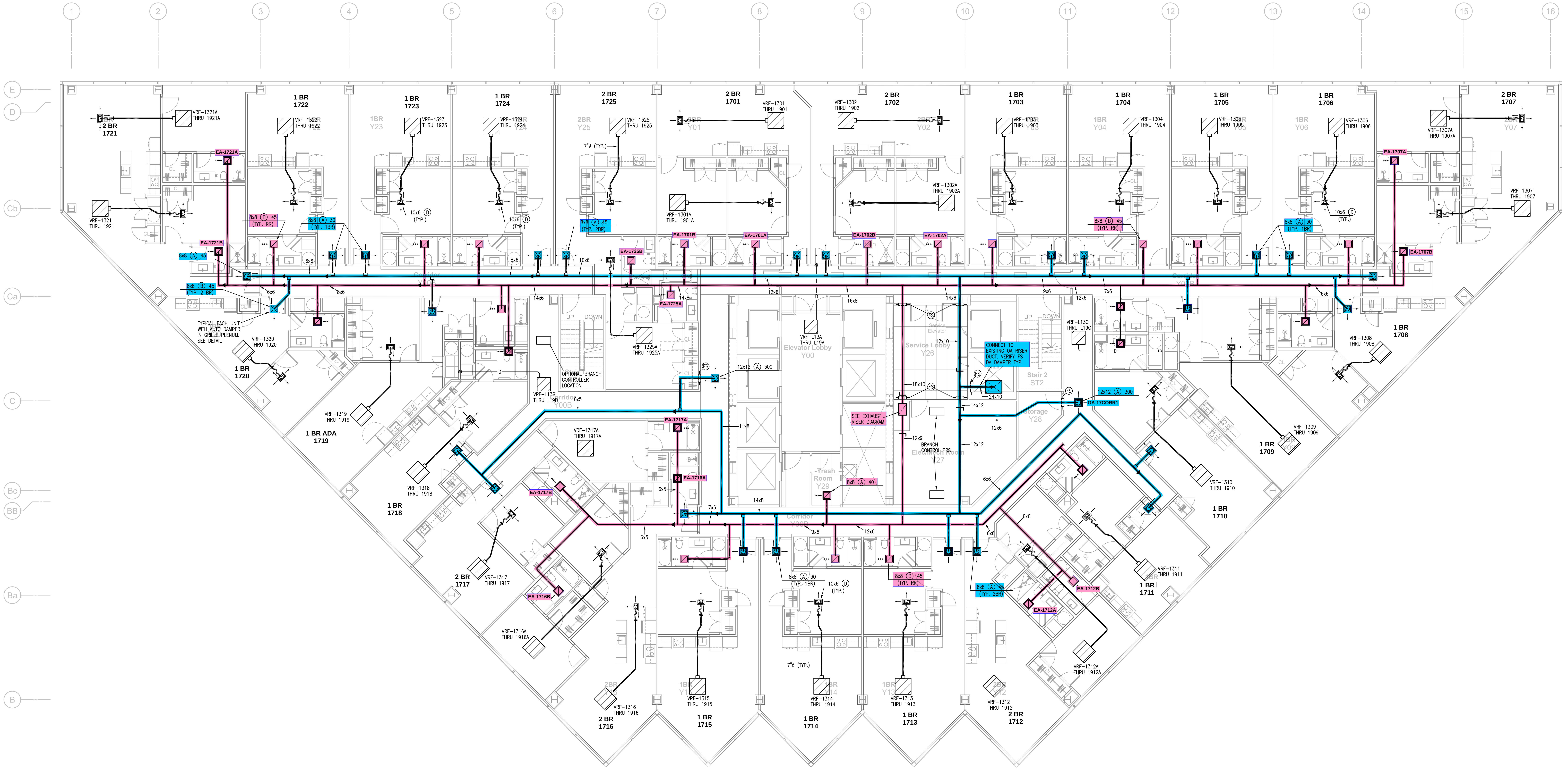
Drawing Title

TYPICAL 13TH-18TH FLOOR PLAN - HVAC

Sheet Number

M1.06

NOTES:
1. REFER TO SHEET M1.01 FOR NOTES AND LEGEND.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Cb
Ca
C
Bc
BB
Ba
B
2 BR
1721
VRF-1321A
THRU 1921A
VRF-1321
THRU 1921
EA-1721A
EA-1721B
8x8 (A) 45
8x8 (B) 45
(TYP. 2 BR)
TYPICAL EACH UNIT
WITH AUTO DAMPER
IN GRILLE PLENUM.
SEE DETAIL
6x6
VRF-1320
THRU 1920
1 BR
1720
1 BR
1722
VRF-1322
THRU 1922
8x8 (B) 45
(TYP. RR)
8x8 (A) 30
(TYP. 1BR)
8x6
1 BR
1723
VRF-1323
THRU 1923
10x6 (D)
(TYP.)
1 BR
1724
VRF-1324
THRU 1924
14x6
1 BR ADA
1719
VRF-1319
THRU 1919
VRF-1318
THRU 1918
1 BR
1718
2 BR
1725
VRF-1325
THRU 1925
7"ø (TYP.)
8x8 (A) 45
(TYP. 2BR)
10x6
EA-1725B
EA-1725A
14x8
VRF-1325A
THRU 1925A
OPTIONAL BRANCH
CONTROLLER
LOCATION
VRF-L13B
THRU L19B
6x5
UP
DOWN
2 BR
1701
VRF-1301
THRU 1901
VRF-1301A
THRU 1901A
EA-1701B
EA-1701A
12x6
12x12 (A) 300
FS
VRF-L13A
THRU L19A
Elevator Lobby
Y00
16x8
11x8
EA-1717A
VRF-1317A
THRU 1917A
EA-1716A
6x5
7x6
14x8
EA-1717B
EA-1716B
2 BR
1717
VRF-1317
THRU 1917
VRF-1316A
THRU 1916A
VRF-1316
THRU 1916
2 BR
1716
2 BR
1702
VRF-1302
THRU 1902
VRF-1302A
THRU 1902A
EA-1702B
EA-1702A
14x6
Service Lobby
Y26
12x10
18x10
SEE EXHAUST
RISER DIAGRAM
12x9
BRANCH
CONTROLLERS
Elec/Mech Room
Y27
Trash
Room
Y29
8x8 (A) 40
9x6
12x6
CONNECT TO
EXISTING OA RISER
DUCT. VERIFY FS
DA DAMPER TYP.
24x10
14x12
12x12
Stair 2
ST2
Storage
Y28
VRF-1315
THRU 1915
1 BR
1715
8x8 (A) 30
(TYP. 1BR)
10x6 (D)
(TYP.)
VRF-1314
THRU 1914
1 BR
1714
8x8 (B) 45
(TYP. RR)
VRF-1313
THRU 1913
1 BR
1713
8x8 (A) 45
(TYP. 2BR)
EA-1712B
EA-1712A
VRF-1312A
THRU 1912A
VRF-1312
THRU 1912
2 BR
1712
6x6
1 BR
1703
VRF-1303
THRU 1903
VRF-L13C
THRU L19C
1 BR
1704
VRF-1304
THRU 1904
8x8 (B) 45
(TYP. RR)
7x6
12x12 (A) 300
OA-17CORR1
1 BR
1705
VRF-1305
THRU 1905
1 BR
1706
VRF-1306
THRU 1906
8x8 (A) 30
(TYP. 1BR)
10x6 (D)
(TYP.)
2 BR
1707
VRF-1307A
THRU 1907A
EA-1707A
EA-1707B
VRF-1307
THRU 1907
1 BR
1708
VRF-1308
THRU 1908
VRF-1309
THRU 1909
1 BR
1709
VRF-1310
THRU 1910
1 BR
1710
VRF-1311
THRU 1911
1 BR
1711

1 TYPICAL 17TH FLOOR PLAN
1/8"=1'-0"
HVAC

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A

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Strada Architecture

RICHARD R.
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E-76983

3/3/2023

Project Information

7 W 7TH

7 West 7th Street Cincinnati OH 45202

Owner: Victrix LLC

Project Number: **21084**

Revision History

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Current Issuance

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03.03.23	Permit Set

Drawing Title

TYPICAL 13TH-18TH FLOOR PLAN - HVAC

Sheet Number

M1.06

NOTES:

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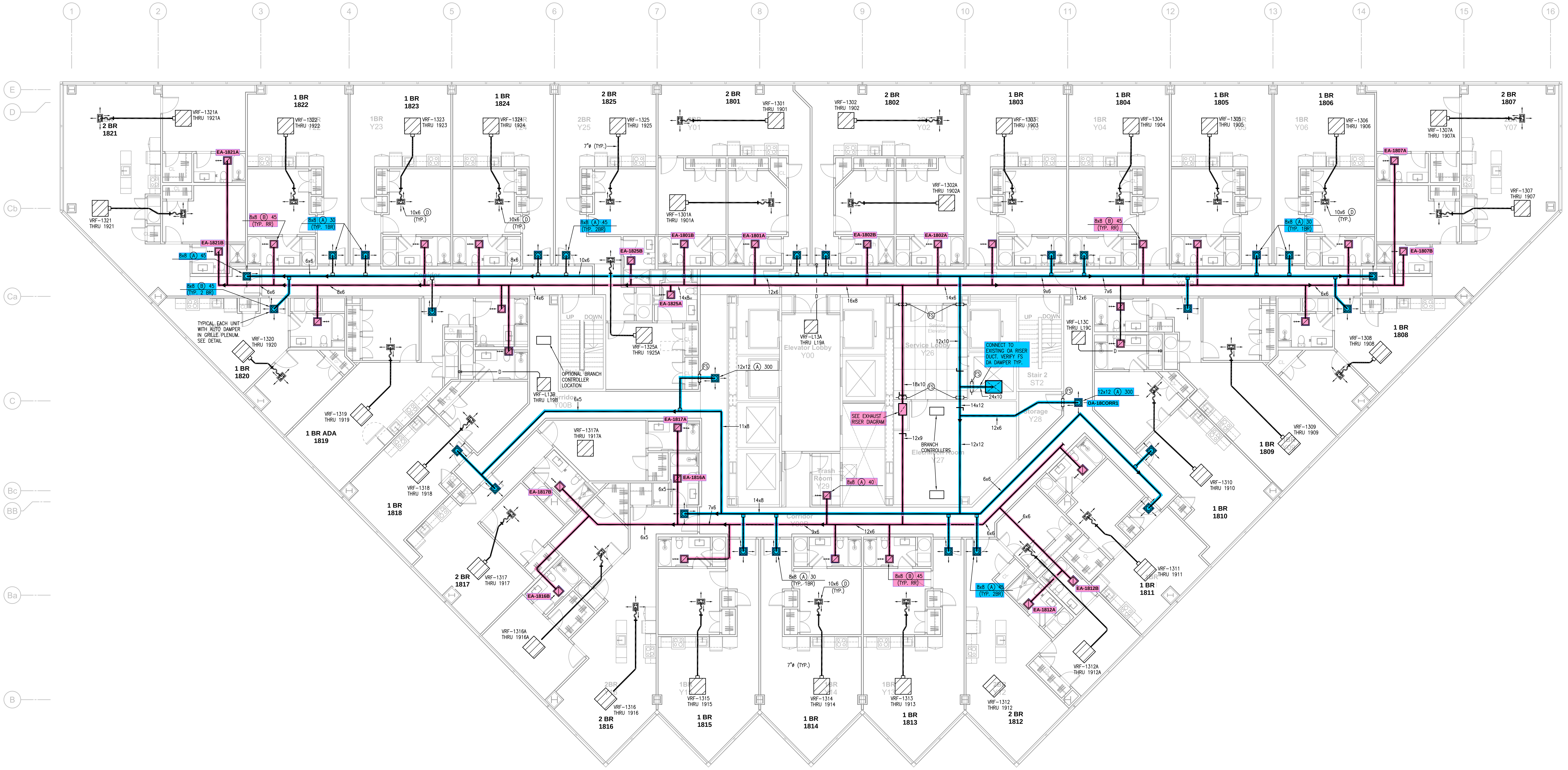
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E
D
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Ca
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Bc
BB
Ba
B
A
2 BR 1821
VRF-1321A THRU 1921A
VRF-1321 THRU 1921
EA-1821A
EA-1821B
8x8 (A) 40
8x8 (A) 45 (TYP. 2 BR)
8x8 (B) 45 (TYP. RR)
8x8 (A) 30 (TYP. 1BR)
1 BR 1822
VRF-1322 THRU 1922
1 BR 1823
VRF-1323 THRU 1923
1 BR 1824
VRF-1324 THRU 1924
2 BR 1825
VRF-1325 THRU 1925
7"ø (TYP.)
10x6 (D) (TYP.)
8x8 (A) 45 (TYP. 2BR)
2 BR 1801
VRF-1301 THRU 1901
VRF-1301A THRU 1901A
EA-1801B
EA-1801A
EA-1825B
EA-1825A
2 BR 1802
VRF-1302 THRU 1902
VRF-1302A THRU 1902A
EA-1802B
EA-1802A
1 BR 1803
VRF-1303 THRU 1903
1 BR 1804
VRF-1304 THRU 1904
1 BR 1805
VRF-1305 THRU 1905
1 BR 1806
VRF-1306 THRU 1906
2 BR 1807
VRF-1307A THRU 1907A
VRF-1307 THRU 1907
EA-1807A
EA-1807B
6x6
8x6
14x6
10x6
14x8
12x6
16x8
9x6
7x6
Corridor Y00B
TYPICAL EACH UNIT WITH AUTO DAMPER IN GRILLE PLENUM. SEE DETAIL
VRF-1320 THRU 1920
1 BR 1820
VRF-1319 THRU 1919
1 BR ADA 1819
OPTIONAL BRANCH CONTROLLER LOCATION
VRF-L13B THRU L19B
VRF-1325A THRU 1925A
UP
DOWN
6x5
12x12 (A) 300
VRF-L13A THRU L19A
Elevator Lobby Y00
11x8
Service Elevator
Service Lobby Y26
12x10
18x10
FS
CONNECT TO EXISTING OA RISER DUCT. VERIFY FS DA DAMPER TYP.
24x10
14x12
Stair 2 ST2
VRF-L13C THRU L19C
12x12 (A) 300
OA-18CORR1
Storage Y28
SEE EXHAUST RISER DIAGRAM
12x9
BRANCH CONTROLLERS
Elec/Mech Room Y27
12x12
Trash Room Y29
8x8 (A) 40
1 BR 1808
VRF-1308 THRU 1908
VRF-1309 THRU 1909
1 BR 1809
VRF-1310 THRU 1910
1 BR 1810
VRF-1317A THRU 1917A
EA-1817A
EA-1816A
EA-1817B
VRF-1318 THRU 1918
1 BR 1818
2 BR 1817
VRF-1317 THRU 1917
EA-1816B
VRF-1316A THRU 1916A
8x8 (A) 30 (TYP. 1BR)
10x6 (D) (TYP.)
8x8 (B) 45 (TYP. RR)
8x8 (A) 45 (TYP. 2BR)
EA-1812B
EA-1812A
VRF-1311 THRU 1911
1 BR 1811
VRF-1312A THRU 1912A
VRF-1316 THRU 1916
2 BR 1816
VRF-1315 THRU 1915
1 BR 1815
VRF-1314 THRU 1914
1 BR 1814
VRF-1313 THRU 1913
1 BR 1813
VRF-1312 THRU 1912
2 BR 1812

① **TYPICAL 18TH FLOOR PLAN**

1/8"=1'-0"　HVAC

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Strada Architecture

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E-76983

3/3/2023

Project Information

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Revision History

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Drawing Title

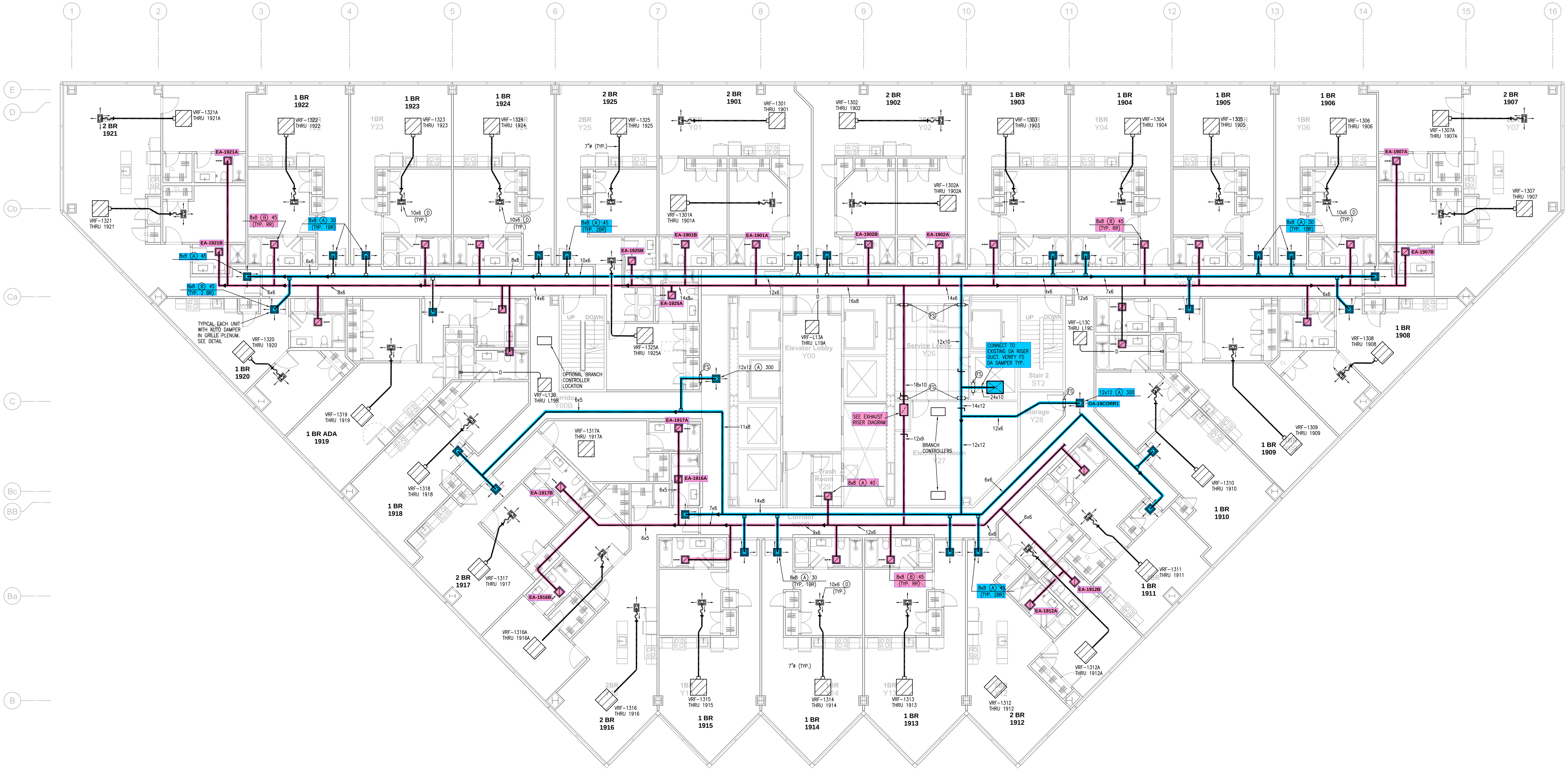
TYPICAL 13TH-18TH FLOOR PLAN - HVAC

Sheet Number

M1.06

NOTES:

1. REFER TO SHEET M1.01 FOR NOTES AND LEGEND.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Ba
B
2 BR 1921
VRF-1321A THRU 1921A
VRF-1321 THRU 1921
EA-1921A
EA-1921B
8x8 Ⓐ 45
8x8 Ⓑ 45 (TYP. 2 BR)
TYPICAL EACH UNIT WITH AUTO DAMPER IN GRILLE PLENUM. SEE DETAIL
1 BR 1922
VRF-1322 THRU 1922
8x8 Ⓑ 45 (TYP. RR)
8x8 Ⓐ 30 (TYP. 1BR)
6x6
1 BR 1923
VRF-1323 THRU 1923
10x6 Ⓓ (TYP.)
8x6
1 BR 1924
VRF-1324 THRU 1924
8x6
2 BR 1925
VRF-1325 THRU 1925
7"ø (TYP.)
8x8 Ⓐ 45 (TYP. 2BR)
10x6
14x6
EA-1925B
EA-1925A
14x8
VRF-1325A THRU 1925A
OPTIONAL BRANCH CONTROLLER LOCATION
VRF-L13B THRU L19B
6x5
2 BR 1901
VRF-1301 THRU 1901
VRF-1301A THRU 1901A
EA-1901B
EA-1901A
12x6
12x12 Ⓐ 300
FS
VRF-L13A THRU L19A
Elevator Lobby Y00
16x8
2 BR 1902
VRF-1302 THRU 1902
VRF-1302A THRU 1902A
EA-1902B
EA-1902A
14x6
Service Lobby Y26
12x10
18x10
SEE EXHAUST RISER DIAGRAM
12x9
BRANCH CONTROLLERS
Elec/Mech Room Y27
CONNECT TO EXISTING OA RISER DUCT. VERIFY FS DA DAMPER TYP.
24x10
14x12
12x12
12x6
Stair 2 ST2
Storage Y28
1 BR 1903
VRF-1303 THRU 1903
9x6
12x6
VRF-L13C THRU L19C
1 BR 1904
VRF-1304 THRU 1904
8x8 Ⓑ 45 (TYP. RR)
7x6
1 BR 1905
VRF-1305 THRU 1905
1 BR 1906
VRF-1306 THRU 1906
8x8 Ⓐ 30 (TYP. 1BR)
10x6 Ⓓ (TYP.)
6x6
2 BR 1907
VRF-1307A THRU 1907A
VRF-1307 THRU 1907
EA-1907A
EA-1907B
1 BR 1908
VRF-1308 THRU 1908
12x12 Ⓐ 300
OA-19CORR1
1 BR 1909
VRF-1309 THRU 1909
1 BR 1910
VRF-1310 THRU 1910
1 BR 1911
VRF-1311 THRU 1911
EA-1912B
EA-1912A
8x8 Ⓐ 45 (TYP. 2BR)
VRF-1312A THRU 1912A
VRF-1312 THRU 1912
2 BR 1912
1 BR 1913
VRF-1313 THRU 1913
8x8 Ⓑ 45 (TYP. RR)
1 BR 1914
VRF-1314 THRU 1914
8x8 Ⓐ 30 (TYP. 1BR)
10x6 Ⓓ (TYP.)
7"ø (TYP.)
9x6
12x6
1 BR 1915
VRF-1315 THRU 1915
2 BR 1916
VRF-1316 THRU 1916
VRF-1316A THRU 1916A
EA-1916A
EA-1916B
2 BR 1917
VRF-1317 THRU 1917
VRF-1317A THRU 1917A
EA-1917A
EA-1917B
6x5
7x6
14x8
11x8
Trash Room Y29
8x8 Ⓐ 40
1 BR 1918
VRF-1318 THRU 1918
1 BR ADA 1919
VRF-1319 THRU 1919
1 BR 1920
VRF-1320 THRU 1920
A

TYPICAL 19TH FLOOR PLAN

1
1/8"=1'-0"
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Sheet Number

M1.06

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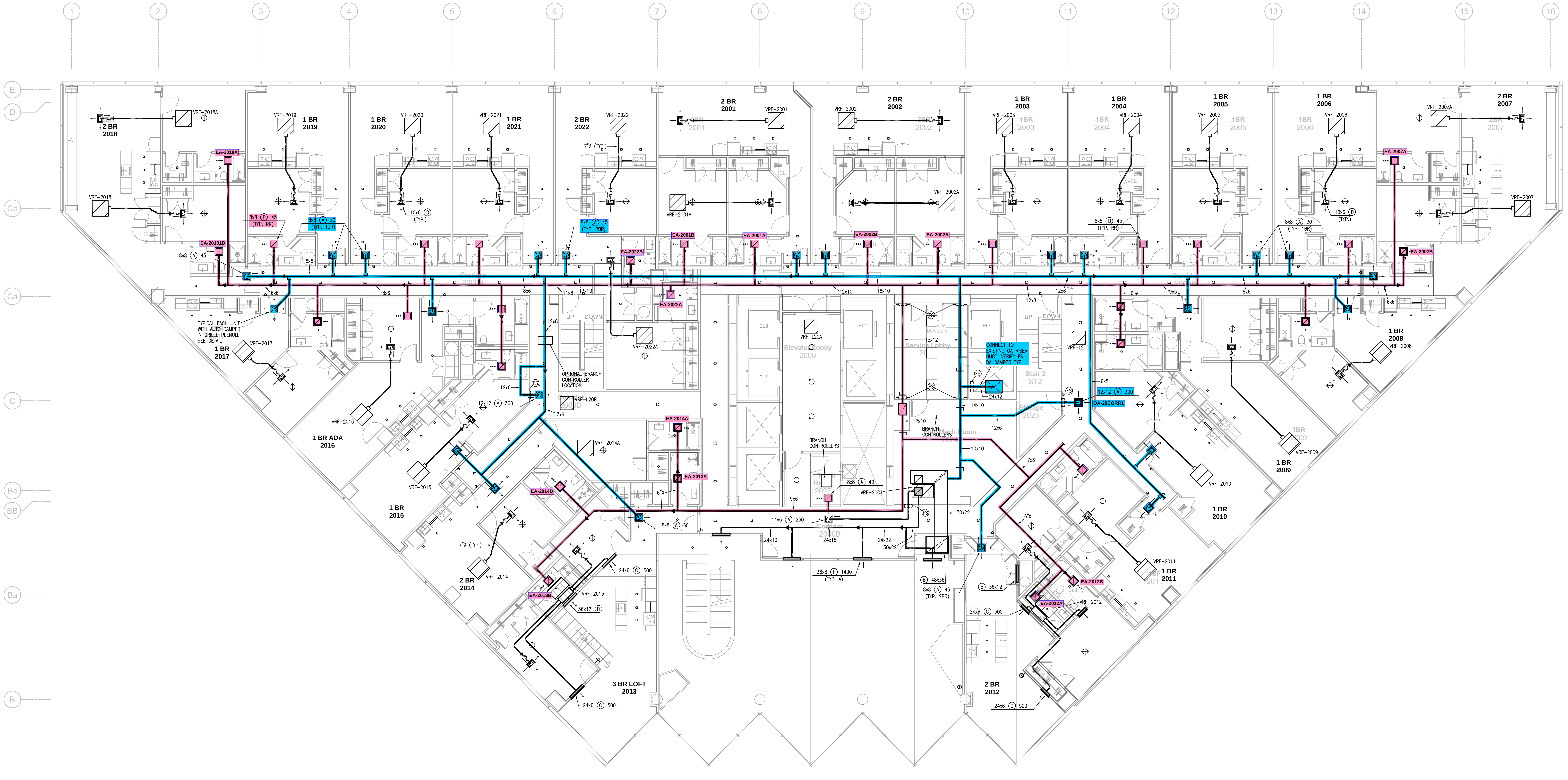
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Bc
BB
Ba
B
A
2 BR
2018
VRF–2018A
VRF–2018
EA-2018A
EA-20181B
8x8 (A) 45
8x8 (B) 45
(TYP. RR)
8x8 (A) 30
(TYP. 1BR)
1 BR
2019
VRF–2019
1 BR
2020
VRF–2020
10x6 (D)
(TYP.)
1 BR
2021
VRF–2021
2 BR
2022
VRF–2022
7"ø (TYP.)
8x8 (A) 45
(TYP. 2BR)
2 BR
2001
VRF–2001
VRF–2001A
EA-2001B
EA-2001A
2 BR
2002
VRF–2002
VRF–2002A
EA-2002B
EA-2002A
1 BR
2003
VRF–2003
1 BR
2004
VRF–2004
1 BR
2005
VRF–2005
1 BR
2006
VRF–2006
2 BR
2007
VRF–2007A
VRF–2007
EA-2007A
EA-2007B
EA-2022B
EA-2022A
VRF–2022A
6x6
8x6
11x8
13x10
12x10
16x10
12x8
12x6
9x6
6"ø
TYPICAL EACH UNIT WITH AUTO DAMPER IN GRILLE PLENUM. SEE DETAIL
1 BR
2017
VRF–2017
VRF–2016
1 BR ADA
2016
VRF–2015
1 BR
2015
OPTIONAL BRANCH CONTROLLER LOCATION
12x6
FS
12x12 (A) 300
VRF–L20B
7x6
VRF–L20A
Elevator Lobby
2000
EL8
EL7
EL1
EL9
15x12
Service Lobby
CONNECT TO EXISTING OA RISER DUCT. VERIFY FS DA DAMPER TYP.
24x12
14x10
12x10
BRANCH CONTROLLERS
10x10
Stair 2
ST2
VRF–L20C
6x5
12x12 (A) 300
OA-20CORR1
Storage
2025
1 BR
2008
VRF–2008
1 BR
2009
VRF–2009
VRF–2010
1 BR
2010
EA-2014A
VRF–2014A
EA-2013A
EA-2014B
8x8 (A) 60
8x8 (A) 40
VRF–20C1
9x6
14x6 (A) 250
24x10
24x15
24x22
30x22
36x8 (F) 1400
(TYP. 4)
(B) 48x36
8x8 (A) 45
(TYP. 2BR)
(B) 36x12
7"ø (TYP.)
2 BR
2014
VRF–2014
EA-2013B
VRF–2013
24x6 (C) 500
36x12 (B)
3 BR LOFT
2013
24x6 (C) 500
VRF–2011
1 BR
2011
EA-2012B
EA-2012A
VRF–2012
24x6 (C) 500
2 BR
2012
24x6 (C) 500
NORTH

1 **20TH FLOOR PLAN**
1/8"=1'-0" HVAC

Strada

611 William Penn Place
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LSA PROJECT NO. 2204006

Strada Architecture

STATE OF OHIO
RICHARD R. BEARDMORE
E-76983
REGISTERED PROFESSIONAL ENGINEER

3/3/2023

Project Information

7 W 7TH

7 West 7th Street Cincinnati OH 45202

Owner: Victrix LLC
Project Number: **21084**

Revision History

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Drawing Title

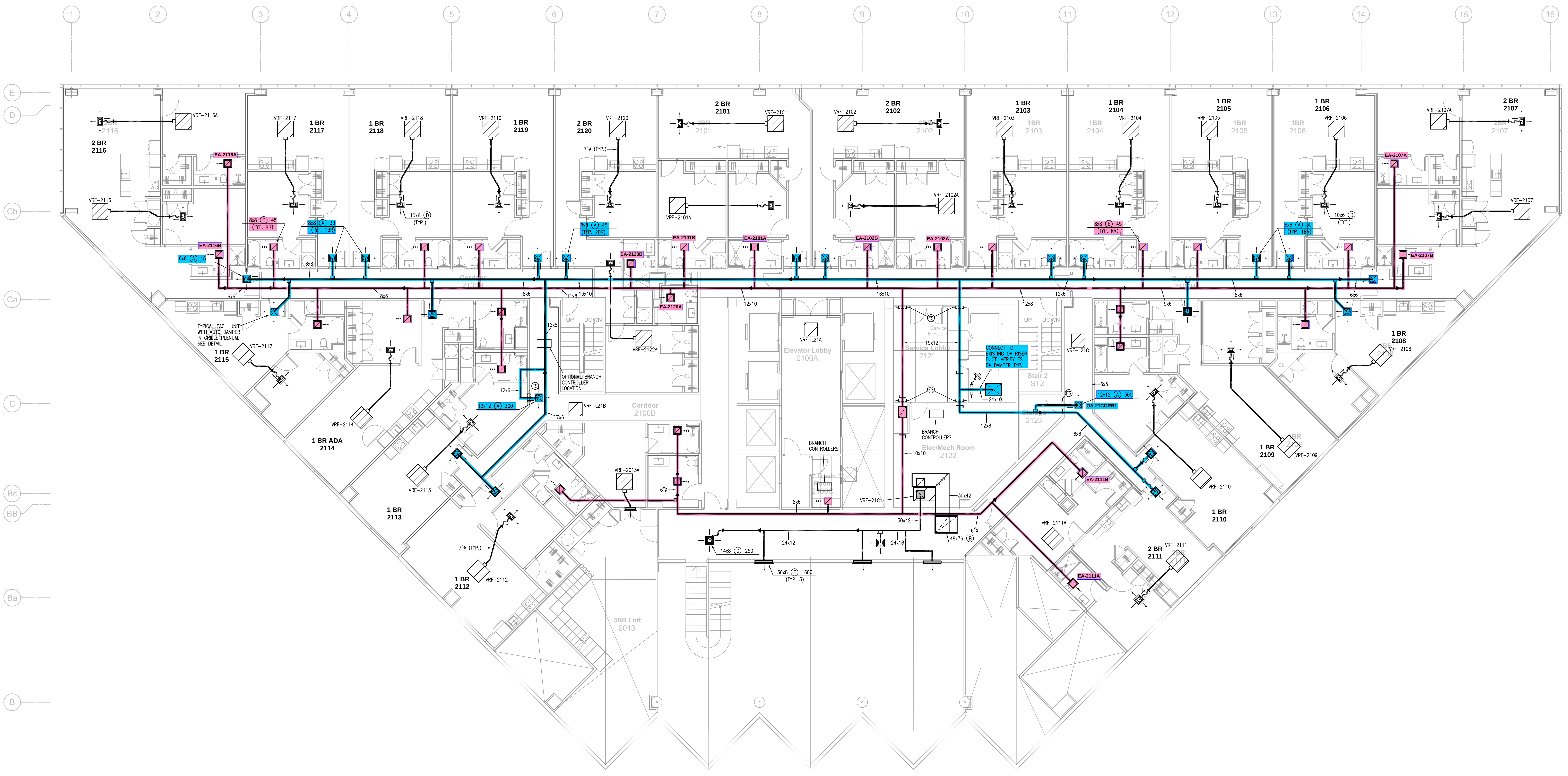
20TH FLOOR PLAN - HVAC

Sheet Number

M1.07

NOTES:

1. REFER TO SHEET M1.01 FOR NOTES AND LEGEND.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9
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11
12
13
14
15
16
E
D
Cb
Ca
C
Bc
BB
Ba
B
2 BR
2116
VRF–2116A
VRF–2116
EA–2116A
EA–2116B
8x8 (A) 45
VRF–2117
1 BR
2117
8x8 (B) 45
(TYP. RR)
8x8 (A) 30
(TYP. 1BR)
1 BR
2118
VRF–2118
VRF–2119
1 BR
2119
10x6 (D)
(TYP.)
2 BR
2120
VRF–2120
7"ø (TYP.)
8x8 (A) 45
(TYP. 2BR)
EA–2120B
EA–2120A
2 BR
2101
VRF–2101
VRF–2101A
EA–2101B
EA–2101A
2 BR
2102
VRF–2102
VRF–2102A
EA–2102B
EA–2102A
1 BR
2103
VRF–2103
1 BR
2104
VRF–2104
8x8 (B) 45
(TYP. RR)
1 BR
2105
VRF–2105
1 BR
2106
VRF–2106
8x8 (A) 30
(TYP. 1BR)
10x6 (D)
(TYP.)
2 BR
2107
VRF–2107A
VRF–2107
EA–2107A
EA–2107B
6x6
8x6
11x8
13x10
12x10
16x10
12x8
12x6
9x6
TYPICAL EACH UNIT
WITH AUTO DAMPER
IN GRILLE PLENUM.
SEE DETAIL
1 BR
2115
VRF–2117
1 BR ADA
2114
VRF–2114
VRF–2113
1 BR
2113
12x8
OPTIONAL BRANCH
CONTROLLER
LOCATION
12x6
FS
12x12 (A) 300
7x6
VRF–L21B
Corridor
2100B
VRF–2122A
Elevator Lobby
2100A
VRF–L21A
Service Lobby
2121
15x12
CONNECT TO
EXISTING OA RISER
DUCT. VERIFY FS
DA DAMPER TYP.
24x10
Stair 2
ST2
VRF–L21C
6x5
12x12 (A) 300
OA-21CORR1
12x8
6x6
BRANCH
CONTROLLERS
Elec/Mech Room
2122
10x10
Storage
2123
VRF–2013A
6"ø
8x6
BRANCH
CONTROLLERS
VRF–21C1
30x42
30x42
48x36 (B)
6"ø
EA-2111B
VRF–2111A
EA-2111A
2 BR
2111
VRF–2111
24x12
24x18
14x8 (D) 250
36x8 (F) 1600
(TYP. 3)
7"ø (TYP.)
1 BR
2112
VRF–2112
3BR Loft
2013
1 BR
2108
VRF–2108
1 BR
2109
VRF–2109
VRF–2110
1 BR
2110
A
NORTH

1 21ST FLOOR PLAN

1/8"=1'-0"

HVAC

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LSA PROJECT NO. 2204006

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RICHARD R. BEARDMORE
E-76983

3/3/2023

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7 W 7TH

7 West 7th Street Cincinnati OH 45202

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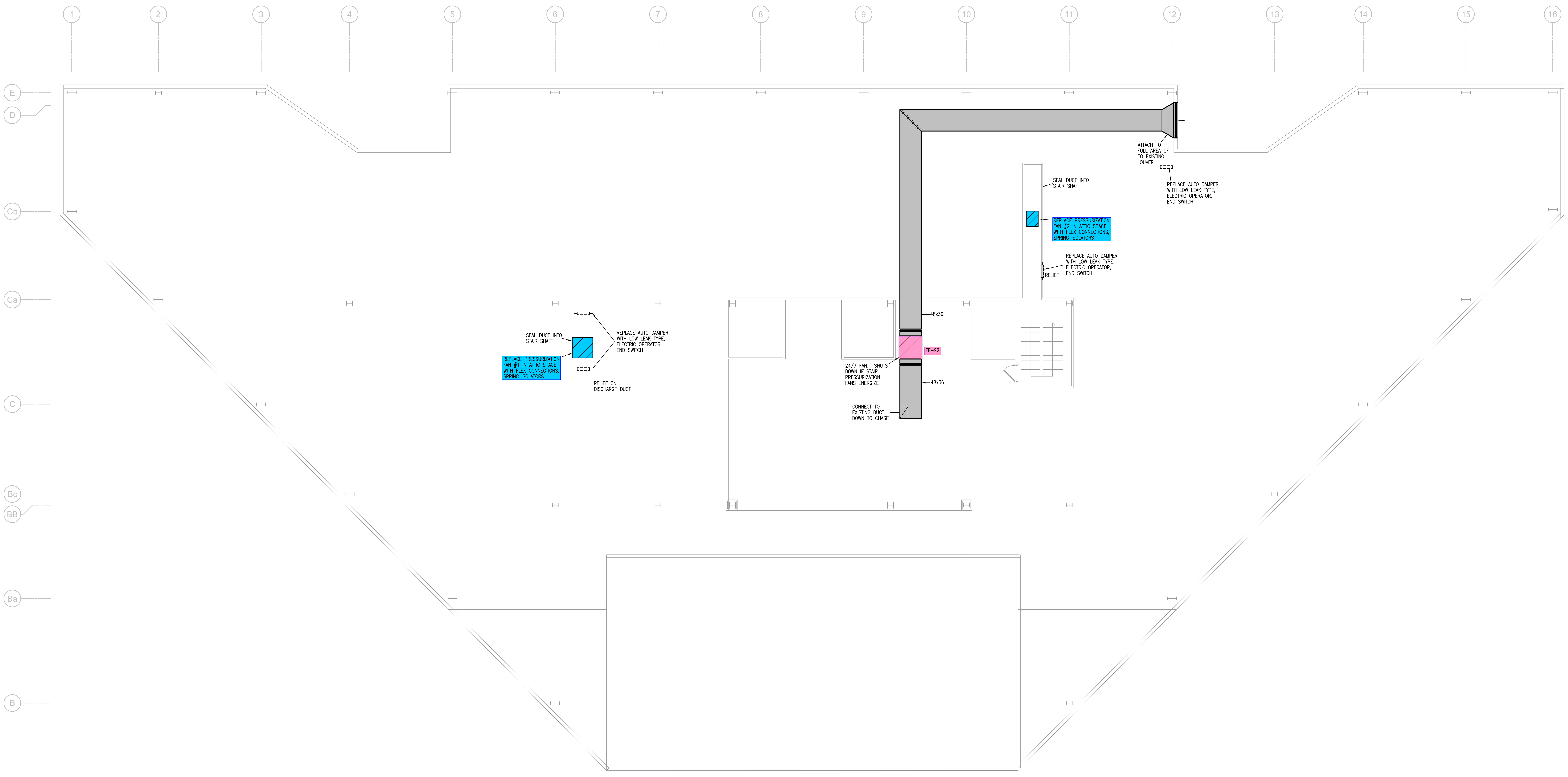
21ST FLOOR PLAN - HVAC

Sheet Number

M1.08

NOTES:
1. REFER TO SHEET M1.01 FOR NOTES AND LEGEND.



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12
13
14
15
16
E
D
Cb
Ca
C
Bc
BB
Ba
B
A
ATTACH TO FULL AREA OF TO EXISTING LOUVER
REPLACE AUTO DAMPER WITH LOW LEAK TYPE, ELECTRIC OPERATOR, END SWITCH
SEAL DUCT INTO STAIR SHAFT
REPLACE PRESSURIZATION FAN #2 IN ATTIC SPACE WITH FLEX CONNECTIONS, SPRING ISOLATORS
REPLACE AUTO DAMPER WITH LOW LEAK TYPE, ELECTRIC OPERATOR, END SWITCH
RELIEF
48x36
EF-22
24/7 FAN. SHUTS DOWN IF STAIR PRESSURIZATION FANS ENERGIZE
48x36
CONNECT TO EXISTING DUCT DOWN TO CHASE
SEAL DUCT INTO STAIR SHAFT
REPLACE PRESSURIZATION FAN #1 IN ATTIC SPACE WITH FLEX CONNECTIONS, SPRING ISOLATORS
REPLACE AUTO DAMPER WITH LOW LEAK TYPE, ELECTRIC OPERATOR, END SWITCH
RELIEF ON DISCHARGE DUCT

1 MACHINE ROOM FLOOR PLAN

1/8"=1'-0" HVAC

NORTH

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Project Number: **21084**

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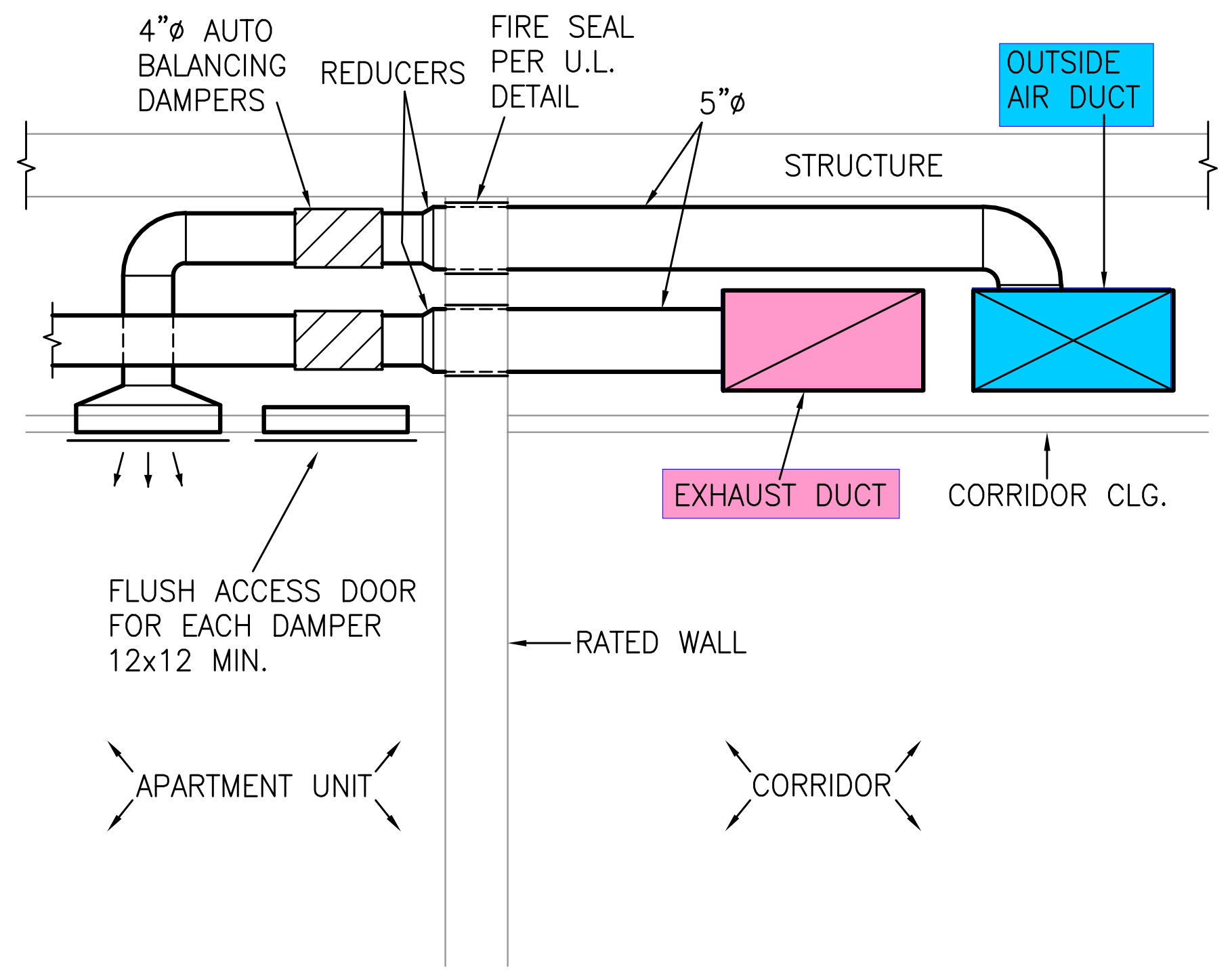
Drawing Title

MACHINE ROOM FLOOR PLAN - HVAC

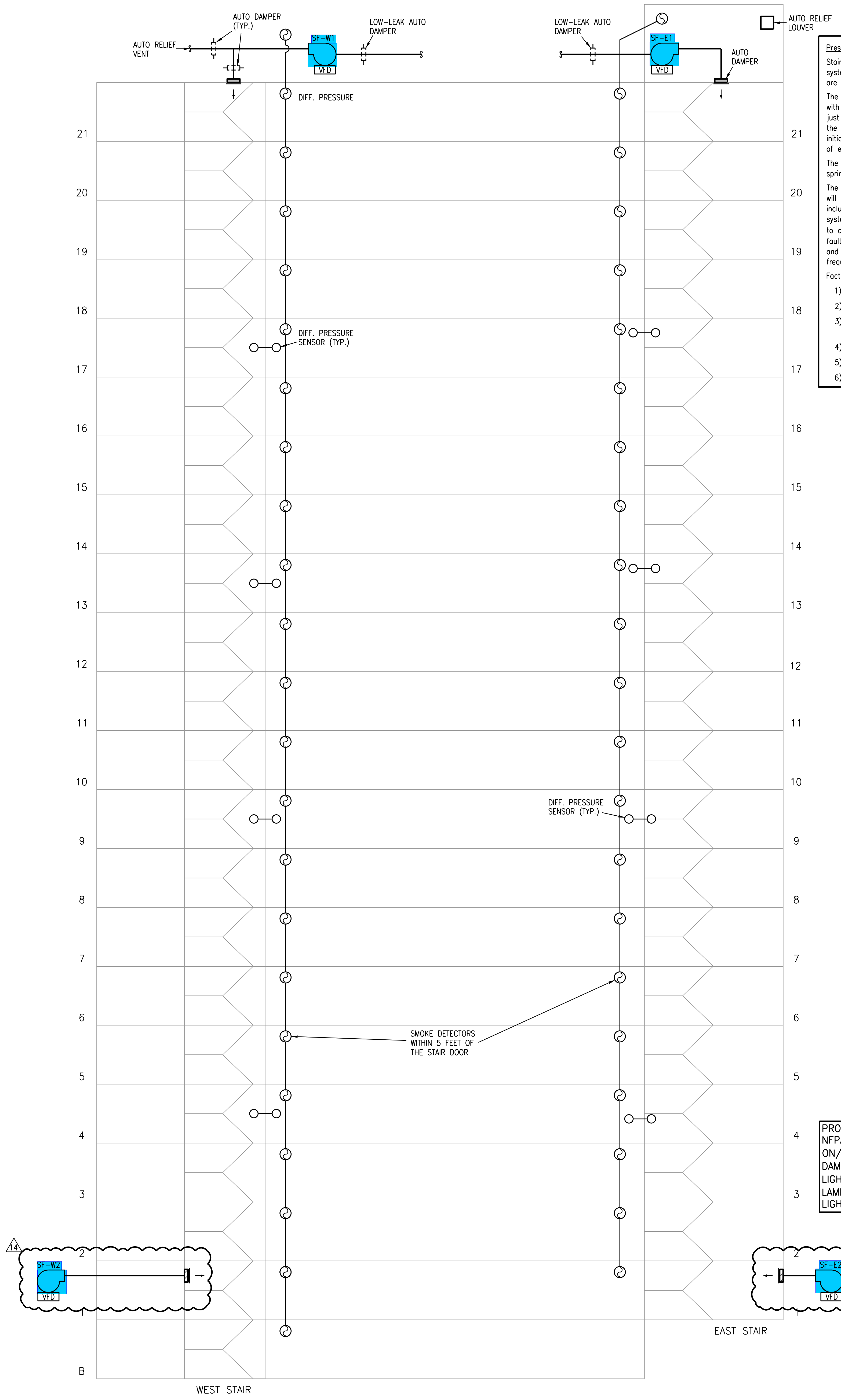
Sheet Number

M1.09


4"ø AUTO BALANCING DAMPERS
REDUCERS
FIRE SEAL PER U.L. DETAIL
5"ø
OUTSIDE AIR DUCT
STRUCTURE
EXHAUST DUCT
CORRIDOR CLG.
FLUSH ACCESS DOOR FOR EACH DAMPER 12x12 MIN.
RATED WALL
APARTMENT UNIT
CORRIDOR

3 APARTMENT OUTSIDE AIR/EXHAUST DUCTS

NO SCALE


AUTO RELIEF VENT
AUTO DAMPER (TYP.)
SF-W1
VFD
LOW-LEAK AUTO DAMPER
DIFF. PRESSURE
LOW-LEAK AUTO DAMPER
SF-E1
VFD
AUTO DAMPER
AUTO RELIEF LOUVER
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
B
DIFF. PRESSURE SENSOR (TYP.)
DIFF. PRESSURE SENSOR (TYP.)
SMOKE DETECTORS WITHIN 5 FEET OF THE STAIR DOOR
14
SF-W2
VFD
14
SF-E2
VFD
WEST STAIR
EAST STAIR

Pressurization System Overview and Analysis

Stair shaft pressurization systems designed in compliance with 2012 IBC 909.4. Smoke control systems are provided for three stair shafts and three elevator shafts per IBC section 909. Shafts are rated at 2–hours per the Code plan.

The systems consist of supply fans located in ventilation shafts and rooms that communicate directly with the outside air. The fans sense differential pressure between the corridors, lobbies or spaces just outside the shafts in various locations. Variable frequency drives control each fan to maintain the code–required pressures, both minimum and maximum for door pull forces. This shall be initially set at 0.25" w.c. differential for stairs. These pressures shall be achieved within ten seconds of enabling.

The fans will be enabled by smoke detection outside the entry to each of the shafts and by sprinkler system activation or by smoke detection in the elevator equipment rooms.

The fire alarm system master control panel and the control panel in the fire fighter's control room will control this system all per IBC 909. Fire Fighter's Control Panel for emergency response shall include manual control of these systems. Panel front shall include a complete schematic of the system with status indicators at each fan and damper location, airflow direction and all information to operate and understand system. Indicators for fans and dampers shall be off/closed, on/open, fault, normal. Each fan shall have an ON–OFF–AUTO switch. There shall be a master "TEST" switch and a master ON–OFF–AUTO switch for the system as a whole. Systems to be tested per Code frequency and a report logged.

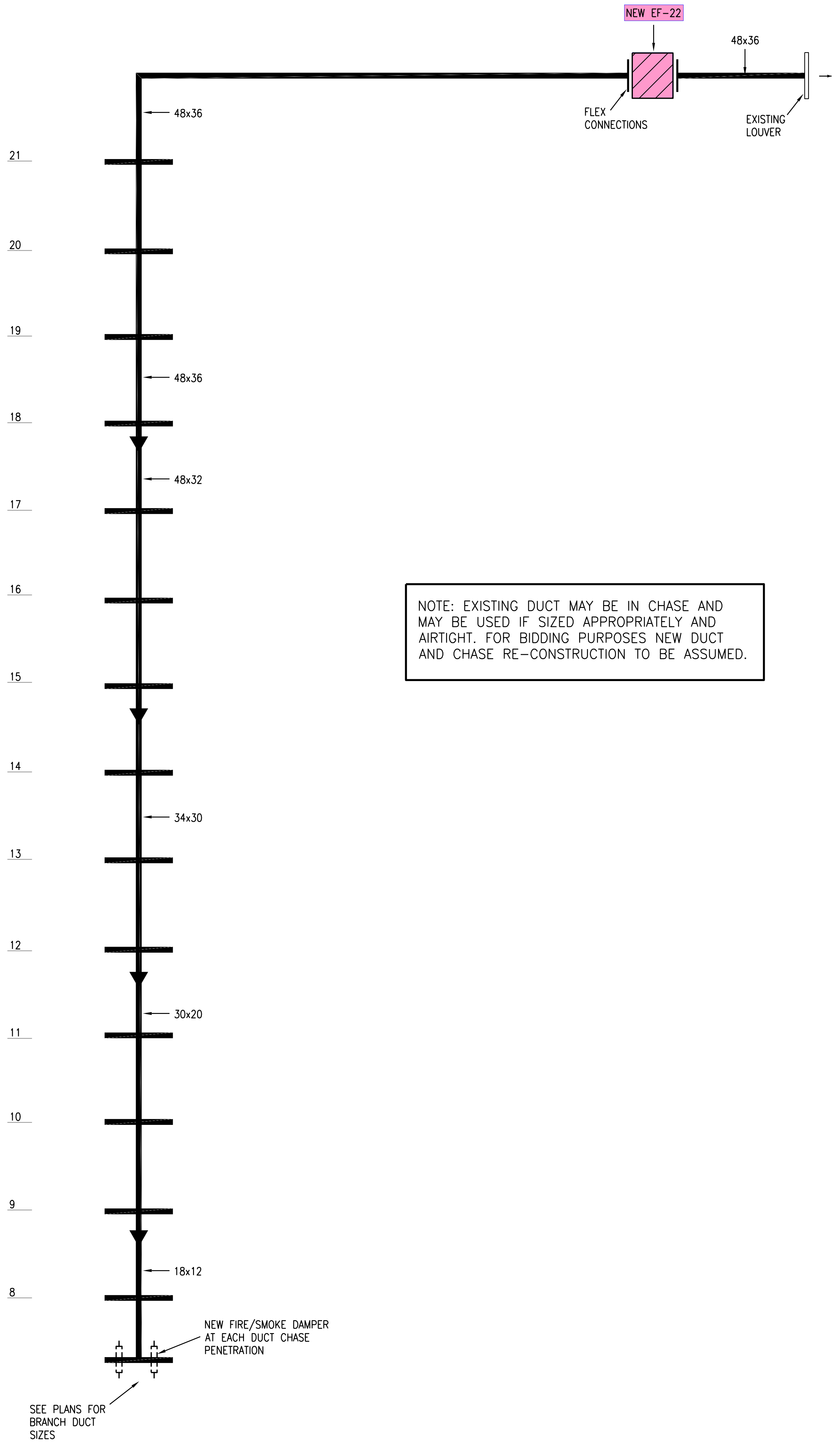
Factors analyzed in the calculations:

1) Temperature effect: minimal due to presence of HVAC system and sprinkler system
2) Stack effect: building height measured and accounted for
3) HVAC system: during any pressurization operation, fire smoke dampers will be closed and larger systems de–energized
4) Wind effect: internal shafts, minimal effect
5) Climate: no effect to equipment; all interior
6) Duration: all fans backed by back–up source.

PROVIDE CONTROL PANEL PER OBC, NFPA AND TO INCLUDE FAN HOA, ON/OFF/NORMAL/FAULT LIIGHTS; DAMPER OPEN/CLOSED/NORMAL/FAULT LIGHTS; MASTER ON/OFF/ SILENCE, LAMP TEST, ENABLE/DISABLE, POWER LIGHT, COMM LIGHT

1 STAIR PRESSURIZATION CONTROL

NO SCALE


NEW EF-22
48x36
FLEX CONNECTIONS
EXISTING LOUVER
48x36
21
20
19
48x36
18
48x32
17
16
15
14
34x30
13
12
30x20
11
10
9
18x12
8
NEW FIRE/SMOKE DAMPER AT EACH DUCT CHASE PENETRATION
SEE PLANS FOR BRANCH DUCT SIZES

NOTE: EXISTING DUCT MAY BE IN CHASE AND MAY BE USED IF SIZED APPROPRIATELY AND AIRTIGHT. FOR BIDDING PURPOSES NEW DUCT AND CHASE RE–CONSTRUCTION TO BE ASSUMED.

8 EXHAUST RISER DETAIL

NO SCALE