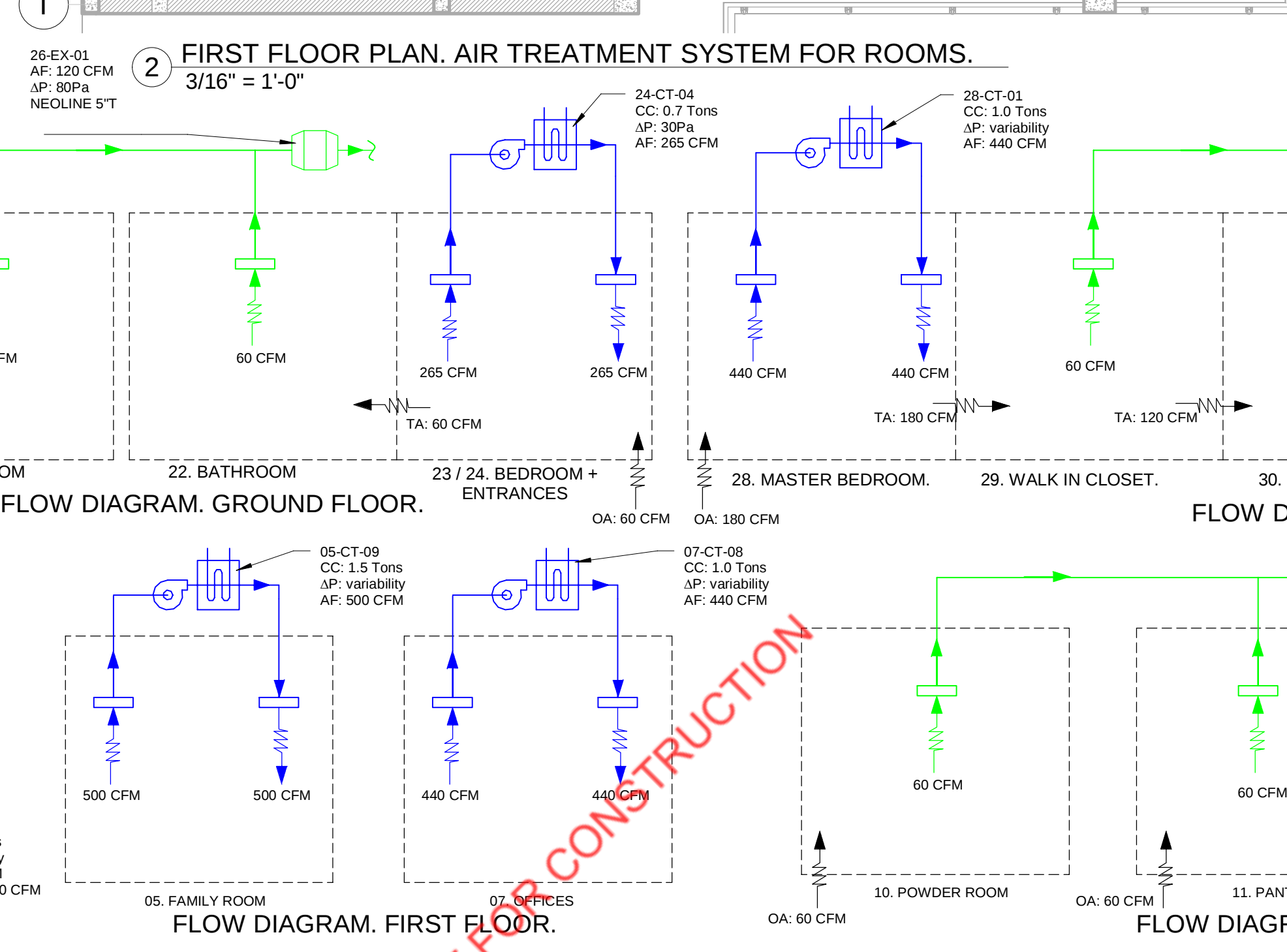
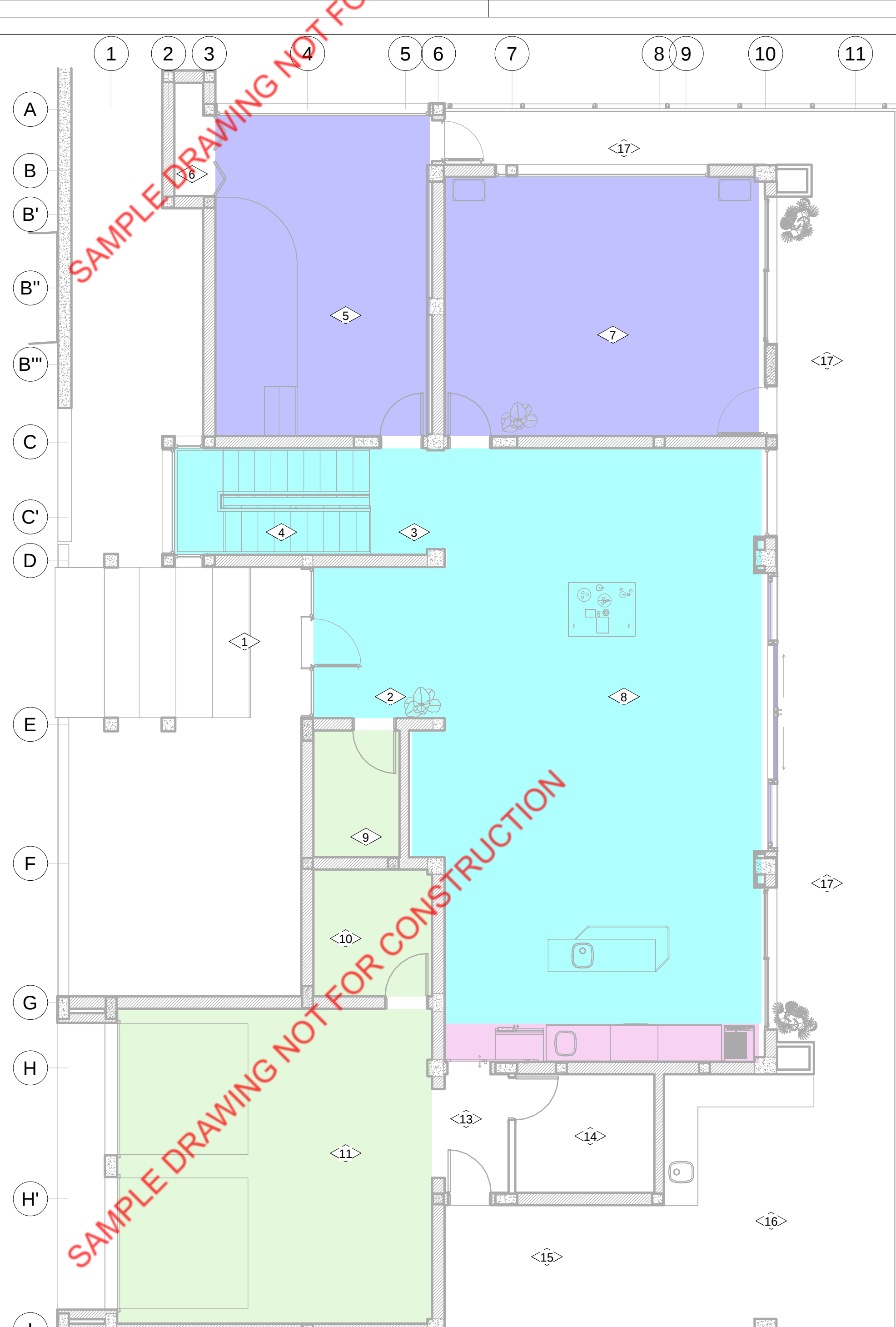
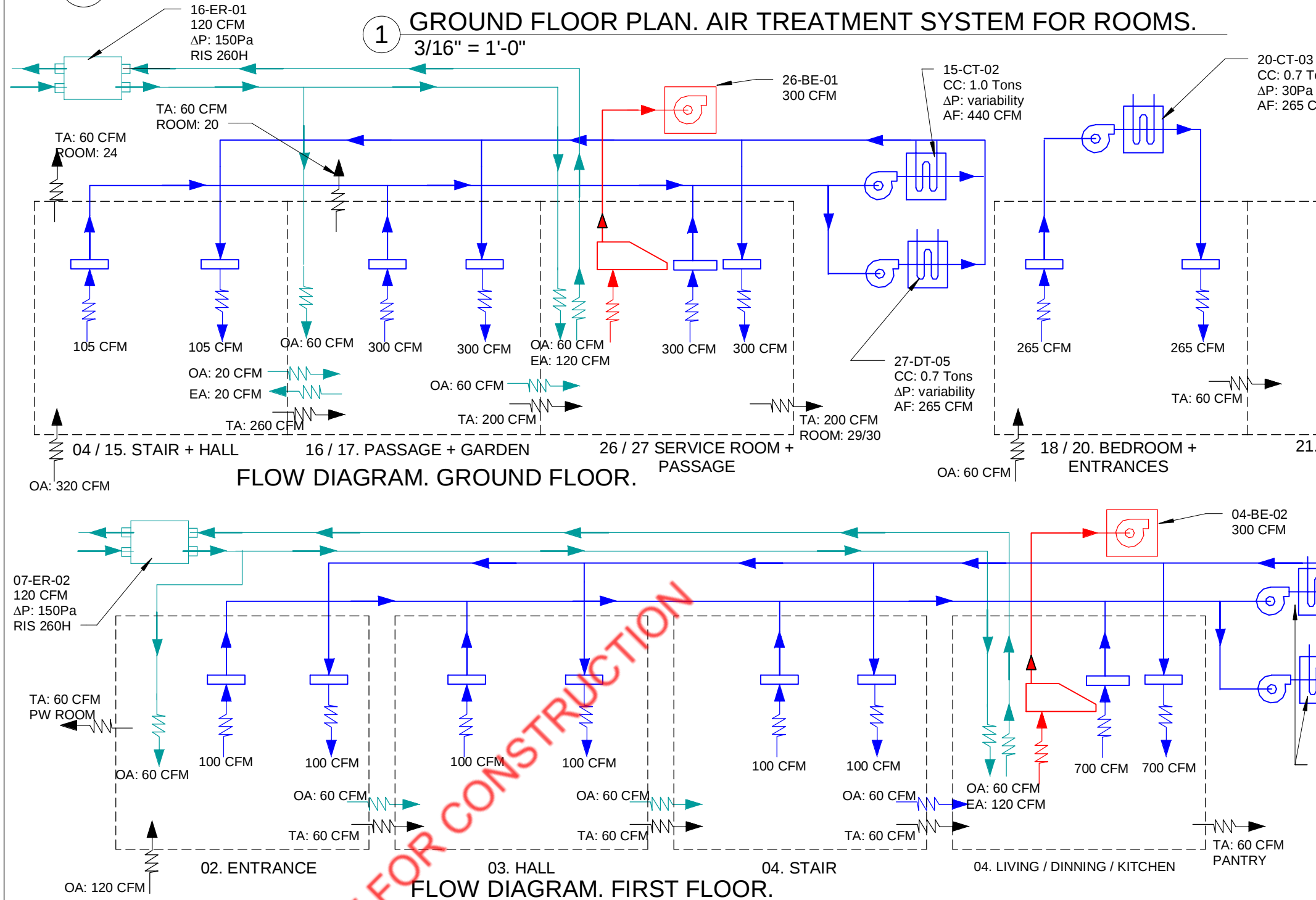
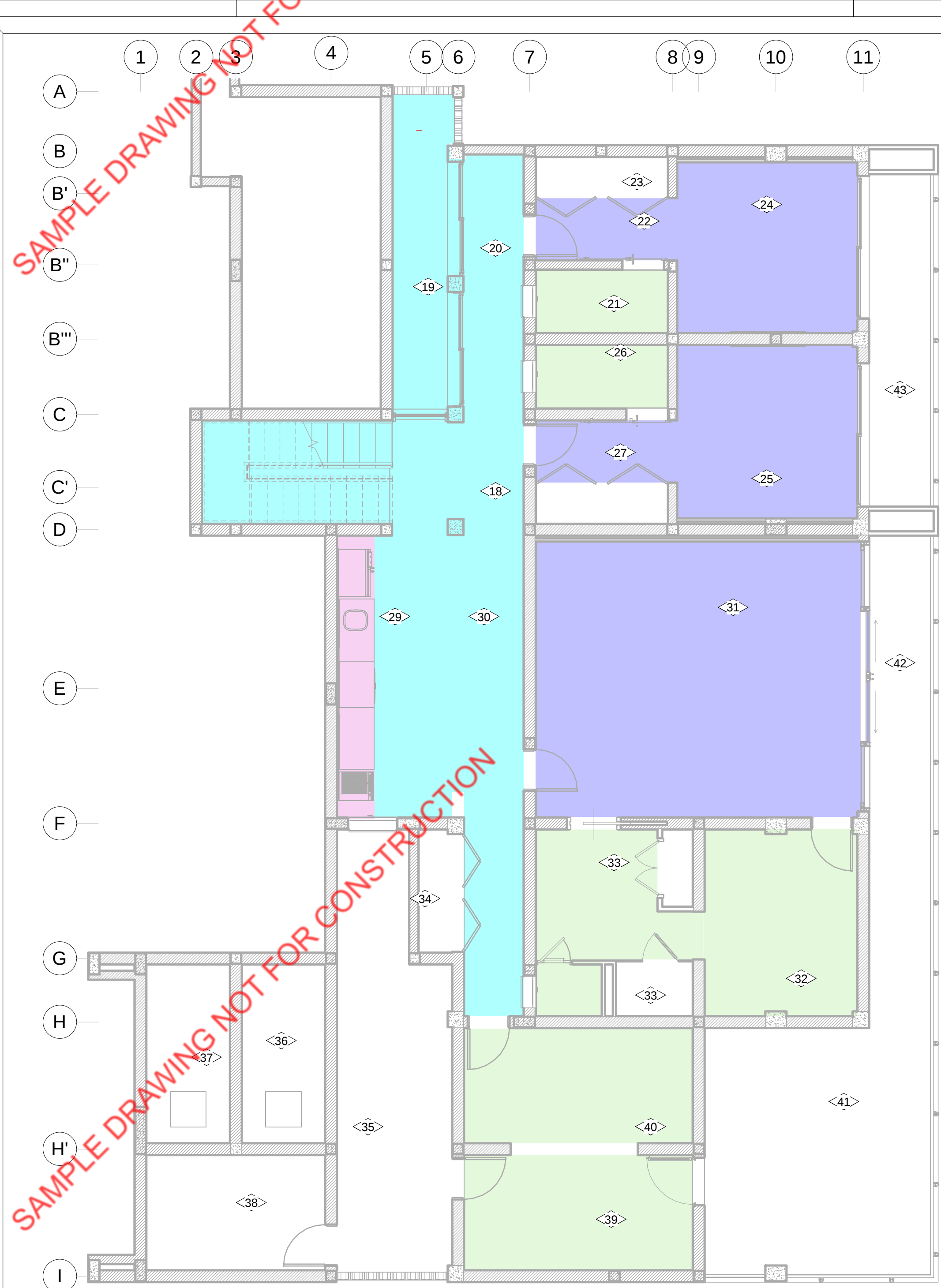




ROOM SCHEDULE	
Number	Name
18	HALL
19	GARDEN
20	PASSAGE
21	BATHROOM
22	ENTRANCE
23	CLOSET
24	BEDROOM
25	BEDROOM
26	BATHROOM
27	ENTRANCE
28	CLOSET
29	SERVICE ROOM
30	PASSAGE
31	MASTER BEDROOM
32	WALK IN CLOSET
33	MASTER BATHROOM
34	CABINET
35	VENTILATION
36	COLD AND HOT WATER SUPPLY
37	RAINWATER HARVESTING
38	PUMP ROOM
39	MUDROOM
40	WASHROOM
41	TERRACE
42	BALCONY
43	BALCONY

ROOM SCHEDULE	
Number	Name
1	PERGOLA
2	ENTRANCE
3	HALL
4	STAIRS
5	FAMILY ROOM
6	CLOSET
7	OFFICE
8	LIVING ROOM/ DINING ROOM/ KITCHEN
9	POWDER ROOM
10	BATTERIES
11	GARAGE
12	PASSAGE
13	HALL
14	PANTRY
15	TERRACE
16	BBQ
17	BALCONY
26	Room
GROUND FLOOR LAYOUT	

LEGEND. FLOW DIAGRAM.

- INDOOR COOLING UNITS, CASSETTE OR DUCT TYPE.
- INLINE EXHAUST SYSTEM.
- INLINE KITCHEN EXHAUST.
- ENERGY RECOVERY VENTILATOR.
- FLOW DIRECTION
- AIR CONDITIONING SYSTEM.
- INLINE EXHAUST SYSTEM.
- INLINE KITCHEN BLOWER EXHAUST.
- RECOVERY HEAT SYSTEM.

TA - TRANSFERRED AIR.
EA - EXPELLED AIR.
OA - OUTSIDE AIR.
EH - EXTRACTION HOOD.
CC - COOLING CAPACITY.
AF - AIR FLOW.
ΔP - STATIC PRESSURE AVAILABLE.

EBENEZER ENGINEERING CONSULTING
Let's build our mark!

LOCATION

CAPTION

HVAC ROOMS SYSTEMS

- AIR CONDITIONING.
- AIR CONDITIONING AND ENERGY RECOVERY VENTILATOR.
- INLINE EXHAUST SYSTEM.
- INLINE KITCHEN EXHAUST AND AIR CONDITIONING.

NOTES

REVIEWS

VERSION N°	DATE	APROVED

REFERENCE FILES

FILE N°	DESCRIPTION

DESIGNERS

PROJECT MANAGEMENT:
Bsc. Eng. Raudel Moreno

ENGINEER:
MSc. Eng. YEMIR PINO PUEBLA

DRAFTSMAN:
MSc. Eng. YEMIR PINO PUEBLA

PROJECT NAME

ZACHARIAS NEWMAN RESIDENCE

PLAN NAME

HVAC. AIR TREATMENT SYSTEM FOR ROOMS AND FLOW DIAGRAM.

DESCRIPTION

Ground - First Floor, Ventilation & Air Conditioning System. Air Room Treatment and Flow Diagram.

SCALE

INDICATED

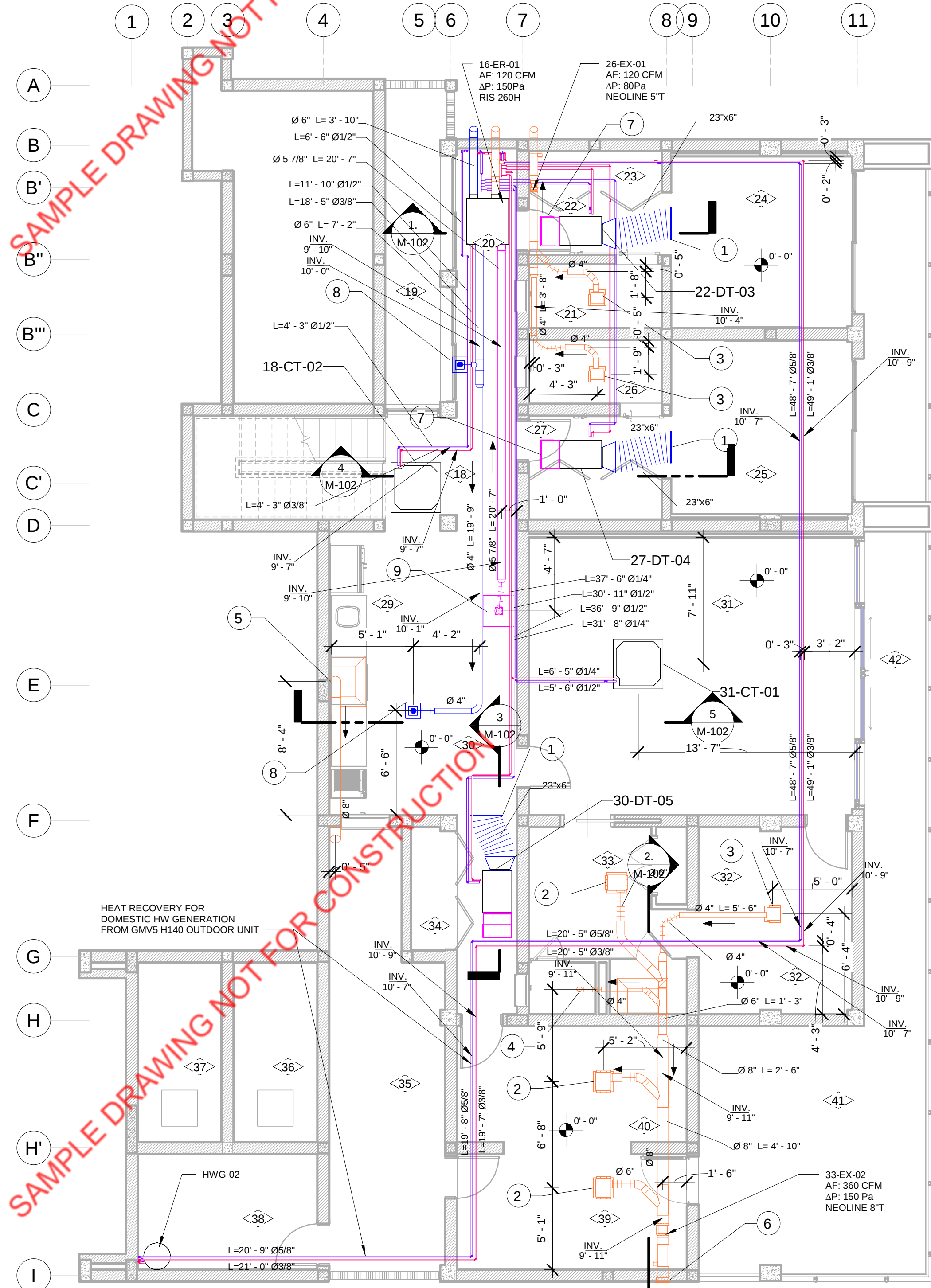
UNIT

Feet-Inches

DATE

10/08/24

M-101



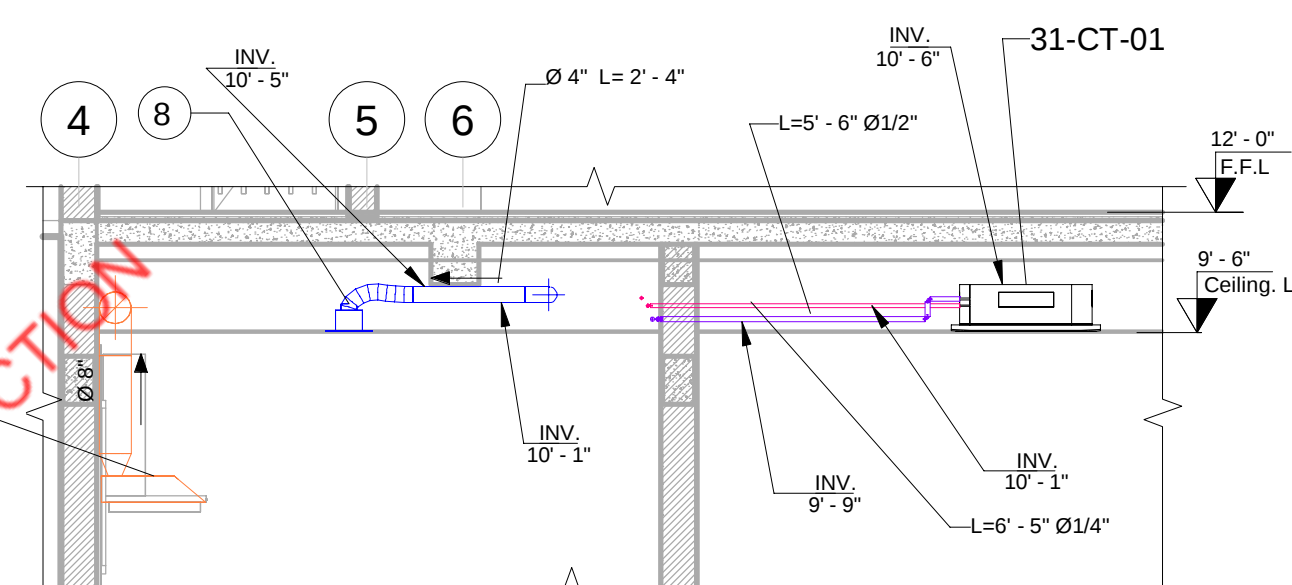
1 GROUND FLOOR PLAN. HVAC SYSTEMS.
3/16" = 1'-0"

ROOM SCHEDULE	
Number	Name
GROUND FLOOR LAYOUT	
18	HALL
19	GARDEN
20	PASSAGE
21	BATHROOM
22	ENTRANCE
23	CLOSET
24	BEDROOM
25	BEDROOM
26	BATHROOM
27	ENTRANCE
28	CLOSET
29	SERVICE ROOM
30	PASSAGE
31	MASTER BEDROOM
32	WALK IN CLOSET
33	MASTER BATHROOM
34	CABINET
35	VENTILATION
36	COLD AND HOT WATER SUPPLY

ROOM SCHEDULE	
Number	Name
37	RAINWATER HARVESTING
38	PUMP ROOM
39	MUDROOM
40	WASHROOM
41	TERRACE
42	BALCONY
43	BALCONY

GENERAL NOTES

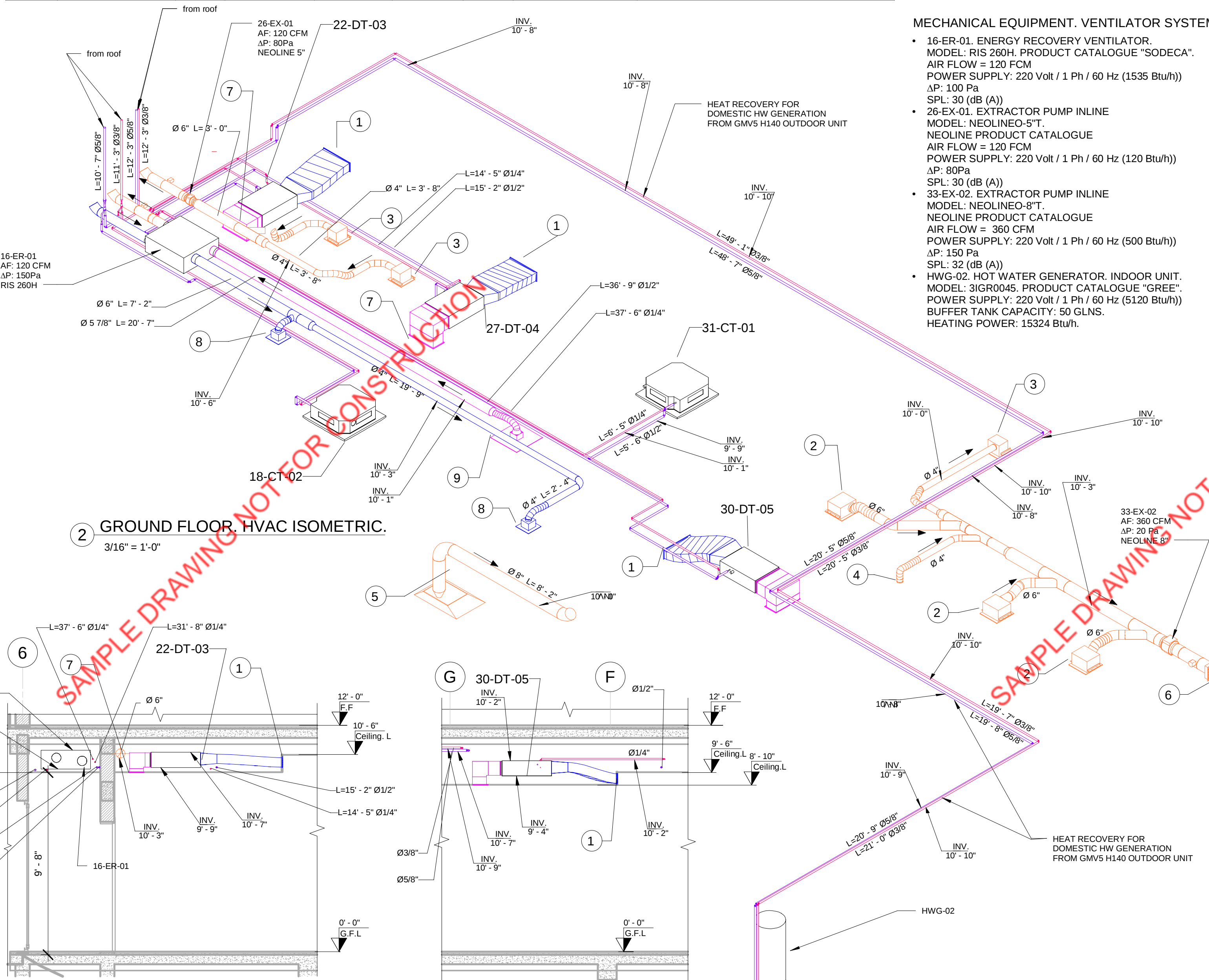
- ALL DUCTS AND PIPES WILL PASS THROUGH FALSE CEILING.
- AIR TERMINALS, DIFFUSER, INDOOR UNITS ELEVATION, DUCTING INSTALLATION WILL MUST BE ADJUSTED AS PER DROP CEILING, CEILING BULKHEAD OR INDICATED WALL HIGH CORINGLY.
- COPPER PIPING DIAMETER (GAS AND LIQUID) TO BE VERIFY, WITH A LOCAL COOLING EQUIPMENT SALES ENGINEER.
- THE VETILATION DUCTS WILL BE MADE OF GALVANIZED STEEL, ASTM STANDARD.
- EXECUTE THERMAL INSULATION, WITH ARMAFLEX AND SELF-ADHESIVE ALUMINUM TAPE.
- WILL BE THE PLUMBING CONTRACTOR RESPONSABILITY FOLLOW THE CONSTRUCTIONS PLANS AND SPECIFICATIONS, ALSO, THE CONSTRUCTION PROCEDURES UNDER THE LOCAL AND INTERNATIONAL CODES ALLOWED USE BY BUILDING BOARD IN THE ISLAND.



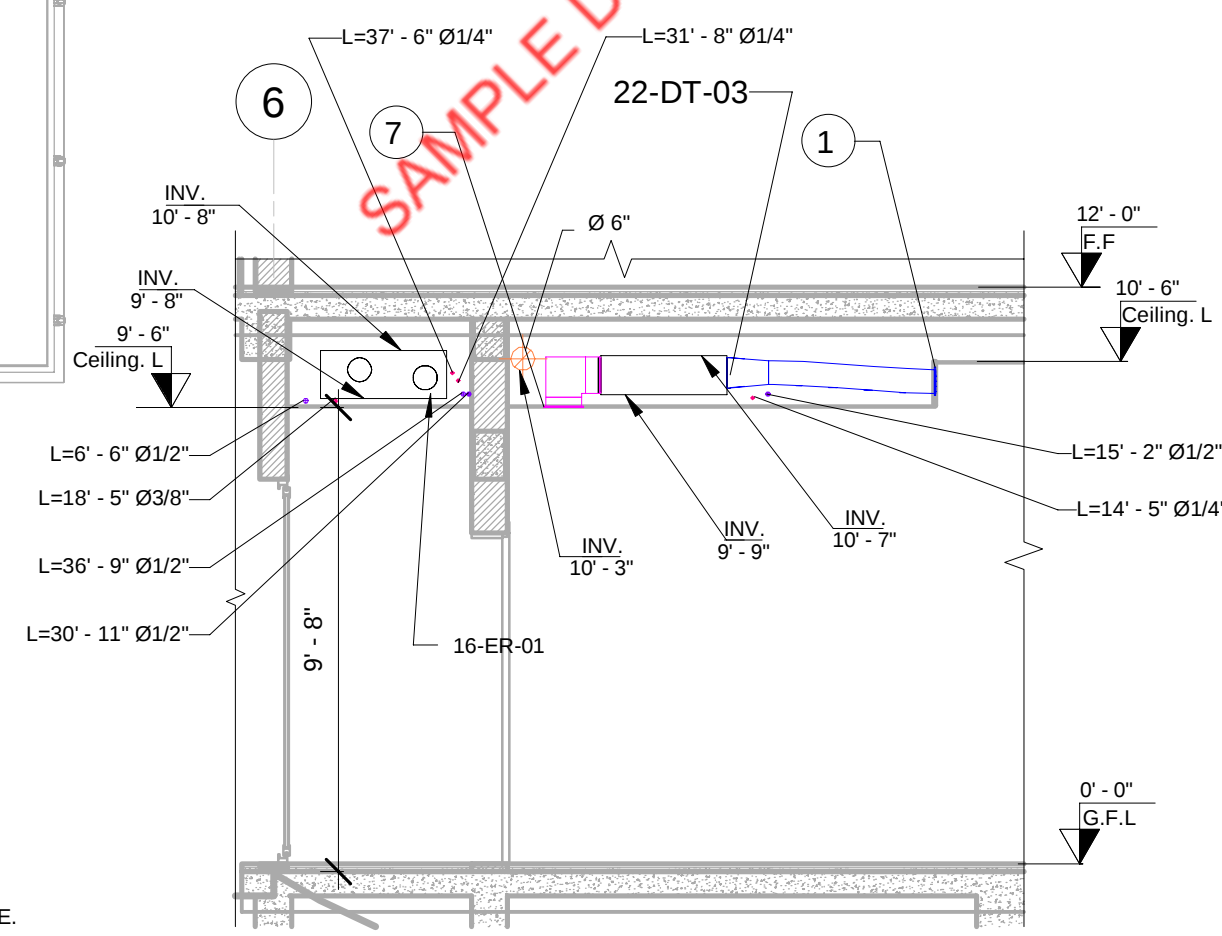
5 SECTION 5.5
1/4" = 1'-0"

COOLING EQUIPMENT. INDOOR AND OUT DOOR UNITS. GMV5 HOME. GREE PRODUCT CATALOGUE.						
ROOM NUMBER	EQUIPMENT REFERENCE	COOLING CAPACITY CALCULATED (Tons)	COOLING CAPACITY EQUIPMENT (Tons)	AIR FLOW VOL. (CFM)	POWER SUPPLY VOLT./ Ph / Hz	POWER (Btu/h)
04 / 18 / 19 / 20	18-CT-02	1.0	1.0	320 / 440	220 / 1 / 60	165.0 Btu/h
22 / 24	22-DT-03	0.7	0.7	120 / 265	220 / 1 / 60	120.0 Btu/h
25 / 27	27-DT-04	0.7	0.7	120 / 265	220 / 1 / 60	120.0 Btu/h
29 / 30	30-DT-05	0.6	0.7	120 / 265	220 / 1 / 60	120.0 Btu/h
31	31-CT-01	1.1	1.0	320 / 440	220 / 1 / 60	165.0 Btu/h

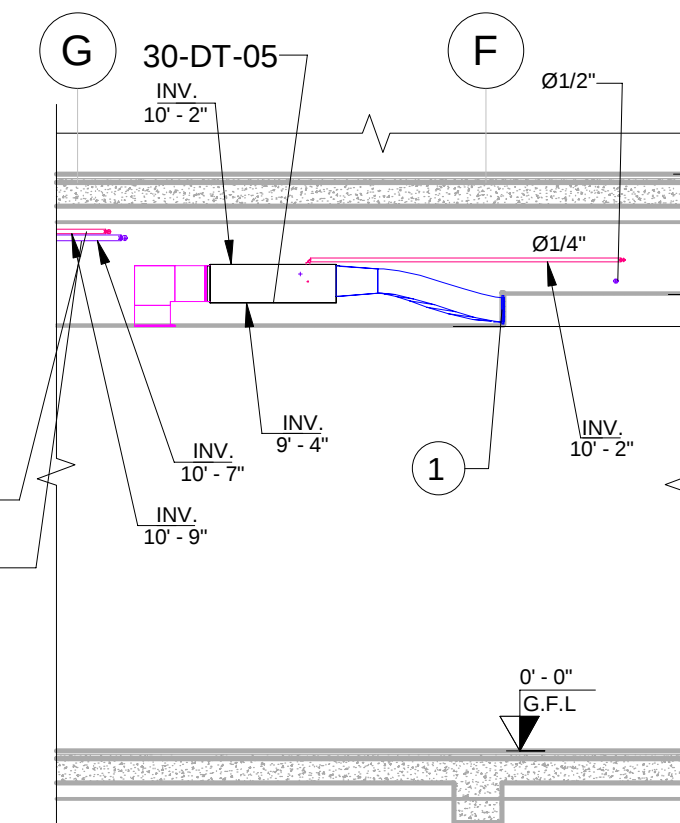
AIR TERMINAL GRILLE AND KITCHEN BLOWER							
GRILLE NUMBER	GRILLE TYPE	COUNT	FLOW (CFM)	SIZE (")	FREE AREA (F ²)	ΔP(Pa)	SOUND PRESSURE LEVEL(dB(A))
1	SUPPLY AIR	3	265 CFM	3"X23"	0.65	9	20
2	EXHAUST AIR	3	120 CFM	8"X12"	0.28	2	11
3	EXHAUST AIR	3	60 CFM	6"X12"	0.22	1	10
4	EXHAUST AIR	1	30 CFM	DN 6"	-	5	10
5	K. BLOWER EXHAUST	2	300 CFM	26"X38"	-	50	20
6	EXTERNAL EXHAUST	1	360 CFM	12"X12"	0.60	50	30
7	RETURN AIR	3	<varies>	9"X21"	0.44	5	24
8	SQUARE DIFFUSER	2	60 CFM	6"X6"	0.14	14	20
9	SQUARE DIFFUSER	1	120 CFM	9"X9"	0.30	7	14



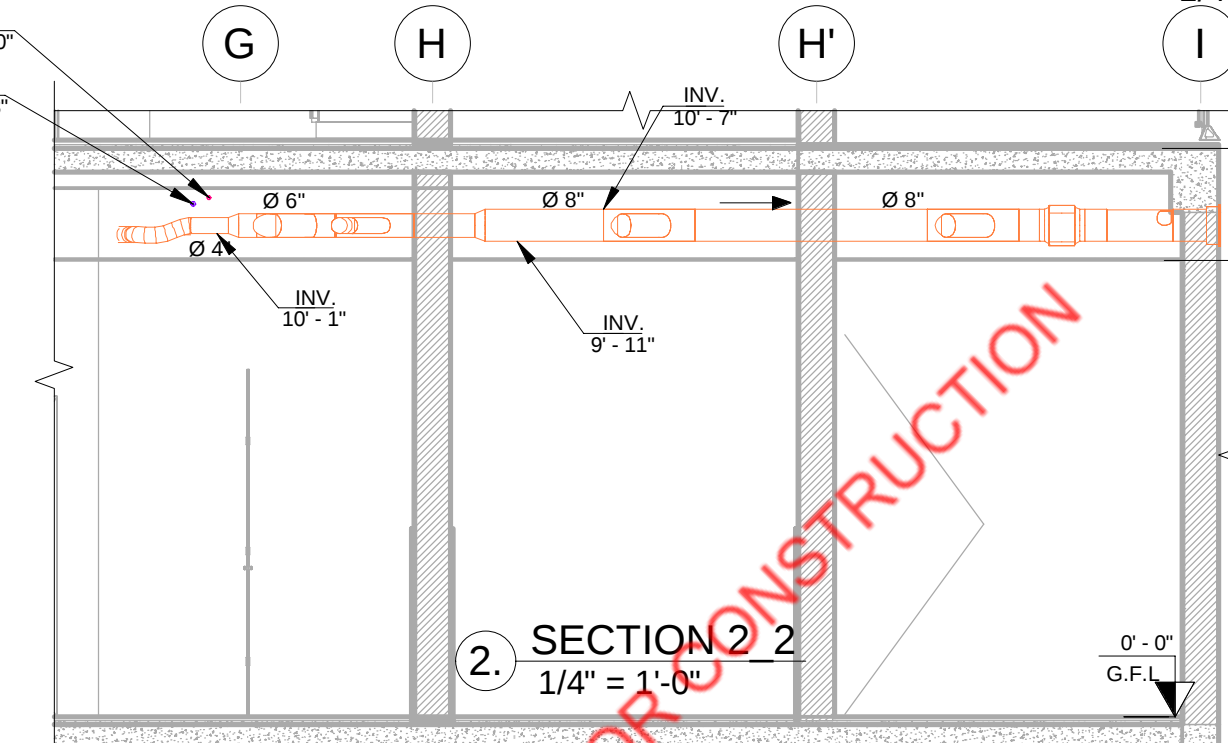
2 GROUND FLOOR. HVAC ISOMETRIC.
3/16" = 1'-0"



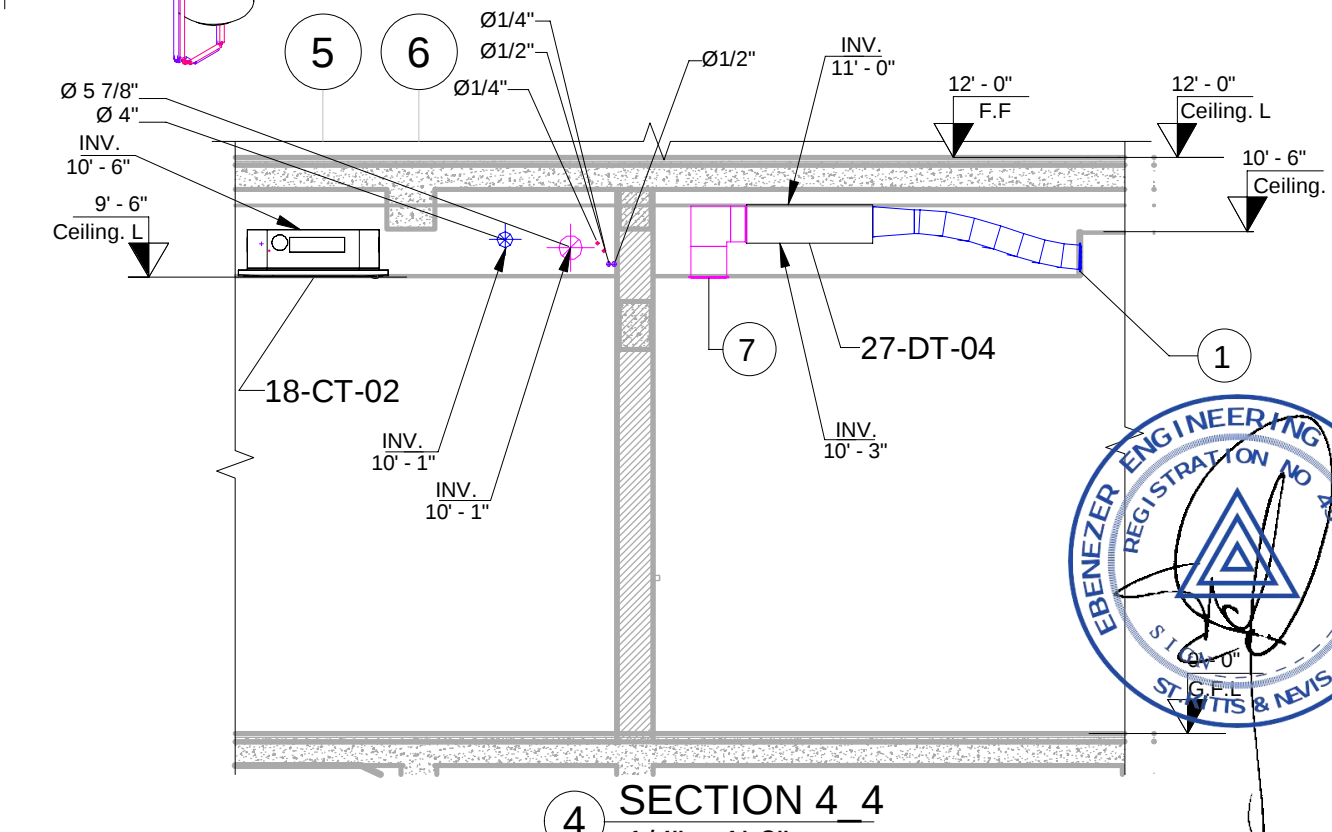
1 SECTION 1.1
1/4" = 1'-0"



3 SECTION 3.3
1/4" = 1'-0"



2 SECTION 2.2
1/4" = 1'-0"



4 SECTION 4.4
1/4" = 1'-0"

PIPING SYSTEM LEGEND

- EXHAUST LINE
- AIR SUPPLY LINE
- RETURN AIR LINE
- GAS CONNECTION LINE
- LIQUID CONNECTION LINE

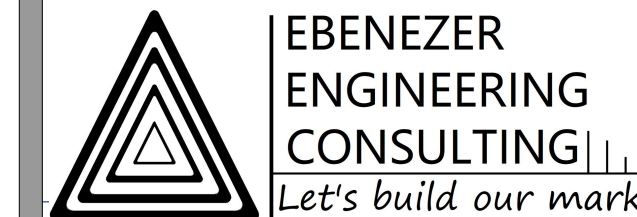
Ø : Piping Size (") Flow direction
L : Pipe Length

Inv. Top: Outside Top Elevation
Elev. Ref Current Level

Inv. Bot: Outside Bottom Elevation
Elev. Ref Current Level

MECHANICAL EQUIPMENT. VENTILATOR SYSTEM.

- 16-ER-01. ENERGY RECOVERY VENTILATOR. MODEL: RIS 260H. PRODUCT CATALOGUE "SODECA". AIR FLOW = 120 FCM. POWER SUPPLY: 220 Volt / 1 Ph / 60 Hz (1535 Btu/h). SPL: 30 (dB (A)).
- 26-EX-01. EXTRACTOR PUMP INLINE. MODEL: NEOLINEO-5". NEOLINE PRODUCT CATALOGUE. AIR FLOW = 120 FCM. POWER SUPPLY: 220 Volt / 1 Ph / 60 Hz (120 Btu/h). ΔP: 80Pa. SPL: 30 (dB (A)).
- 33-EX-02. EXTRACTOR PUMP INLINE. MODEL: NEOLINEO-8". NEOLINE PRODUCT CATALOGUE. AIR FLOW = 360 CFM. POWER SUPPLY: 220 Volt / 1 Ph / 60 Hz (500 Btu/h). ΔP: 150 Pa. SPL: 32 (dB (A)).
- HWG-02. HOT WATER GENERATOR. INDOOR UNIT. MODEL: 3IGR0045. PRODUCT CATALOGUE "GREE". POWER SUPPLY: 220 Volt / 1 Ph / 60 Hz (5120 Btu/h). BUFFER TANK CAPACITY: 50 GLNS. HEATING POWER: 15324 Btu/h.



LOCATION



FRIGATE BAY HOUSING DEVELOPMENT
SECTION DA/17. LOT 11

CAPTION

NOTES

REVIEWS

VERSION N°	DATE	APPROVED
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REFERENCE FILES

FILE N°	DESCRIPTION
---------	-------------

DESIGNERS

PROJECT MANAGEMENT:
Bs.c Eng. Rau

ENGINEER:
MSc. Eng. YEMIR PINO PUEBLA
DRAFTSMAN:
MSc. Eng. YEMIR PINO PUEBLA

PROJECT NAME

ZACHARIAS NEWMAN
RESIDENCE

PLAN NAME

GROUND FLOOR. HVAC
SYSTEMS.

DESCRIPTION

Ground Floor, Ventilation & Air Conditioning System

SCALE

INDICATED

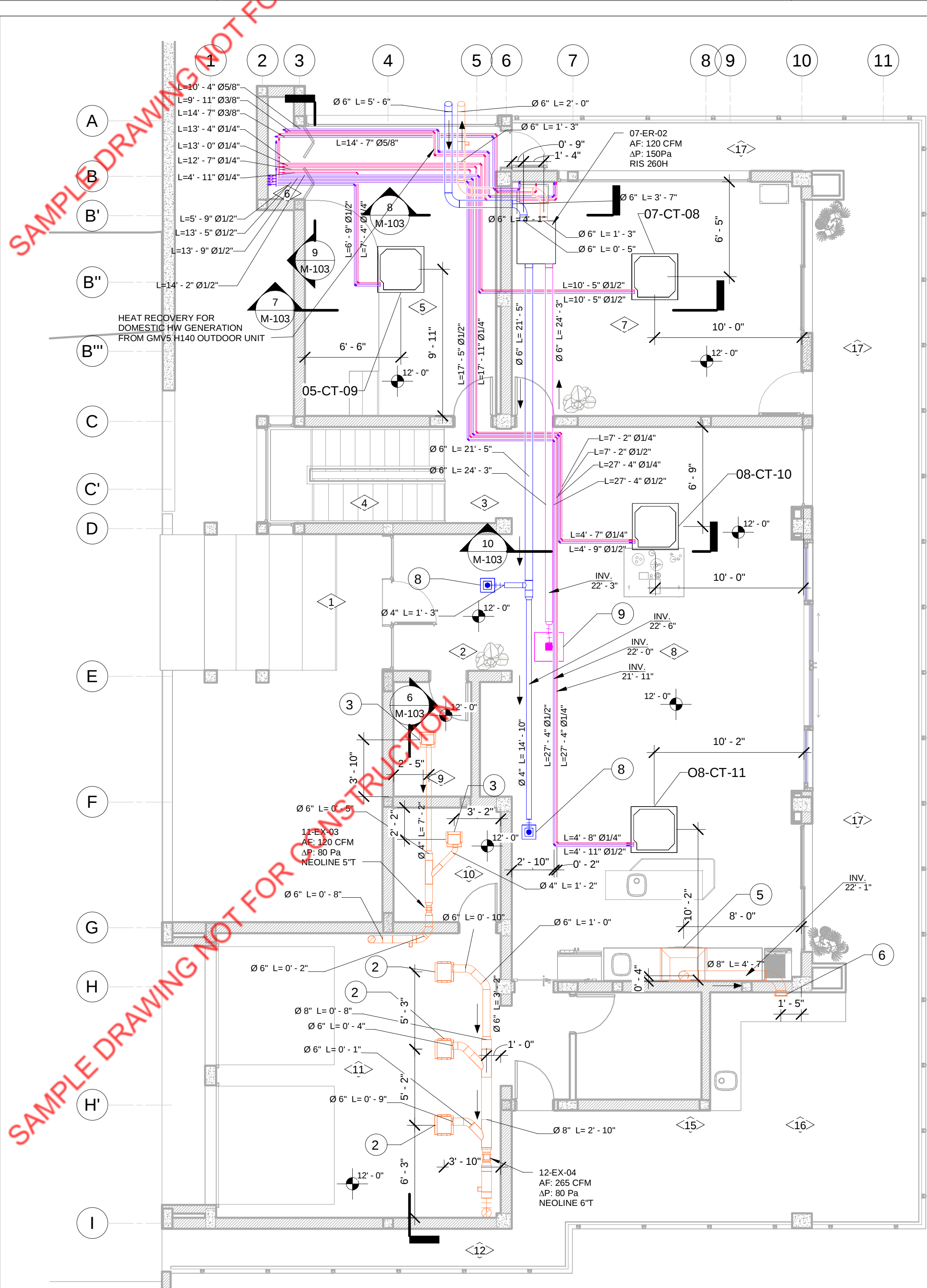
UNIT

Feet/Inches

DATE

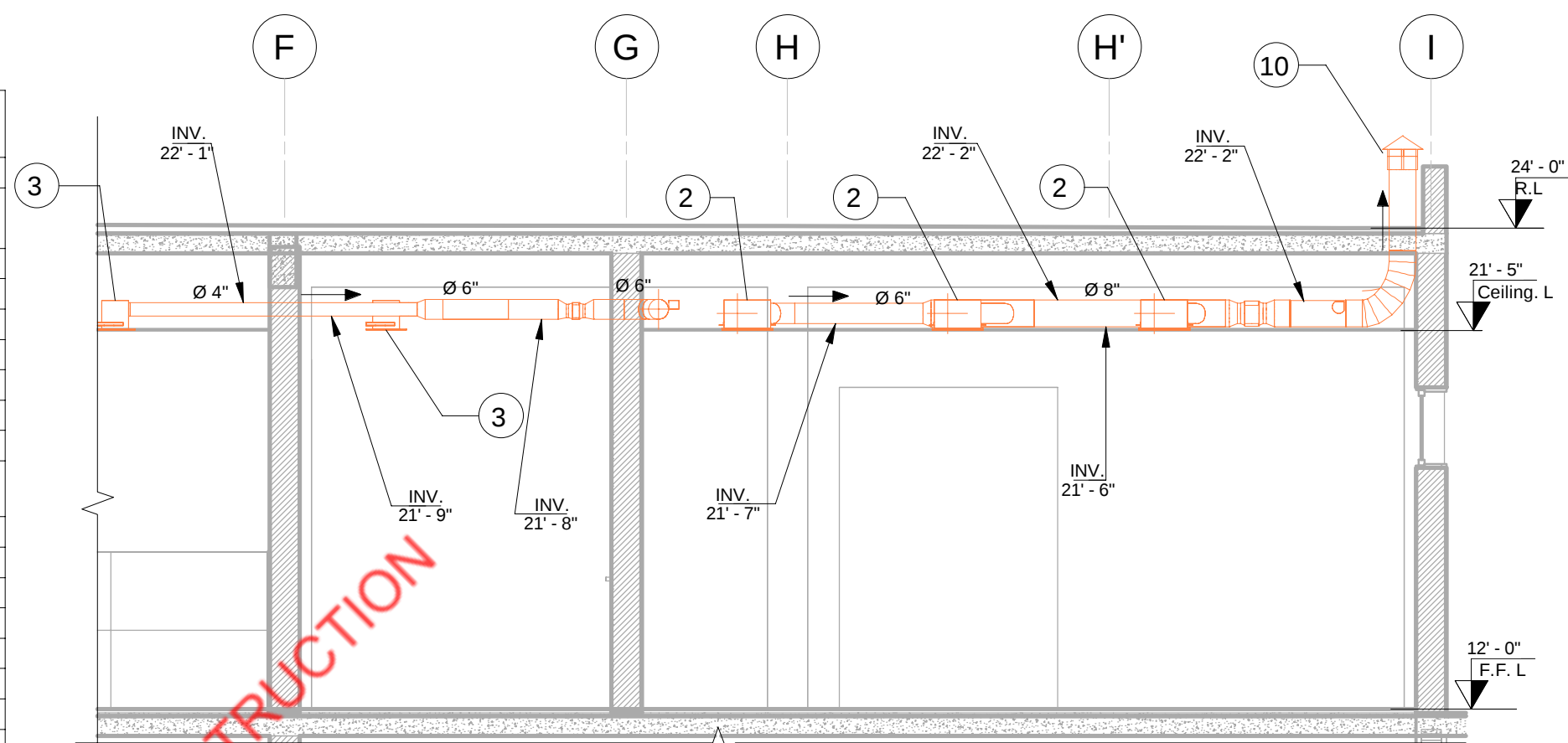
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1 FIRST FLOOR PLANT. HVAC SYSTEMS.
3/16" = 1'-0"

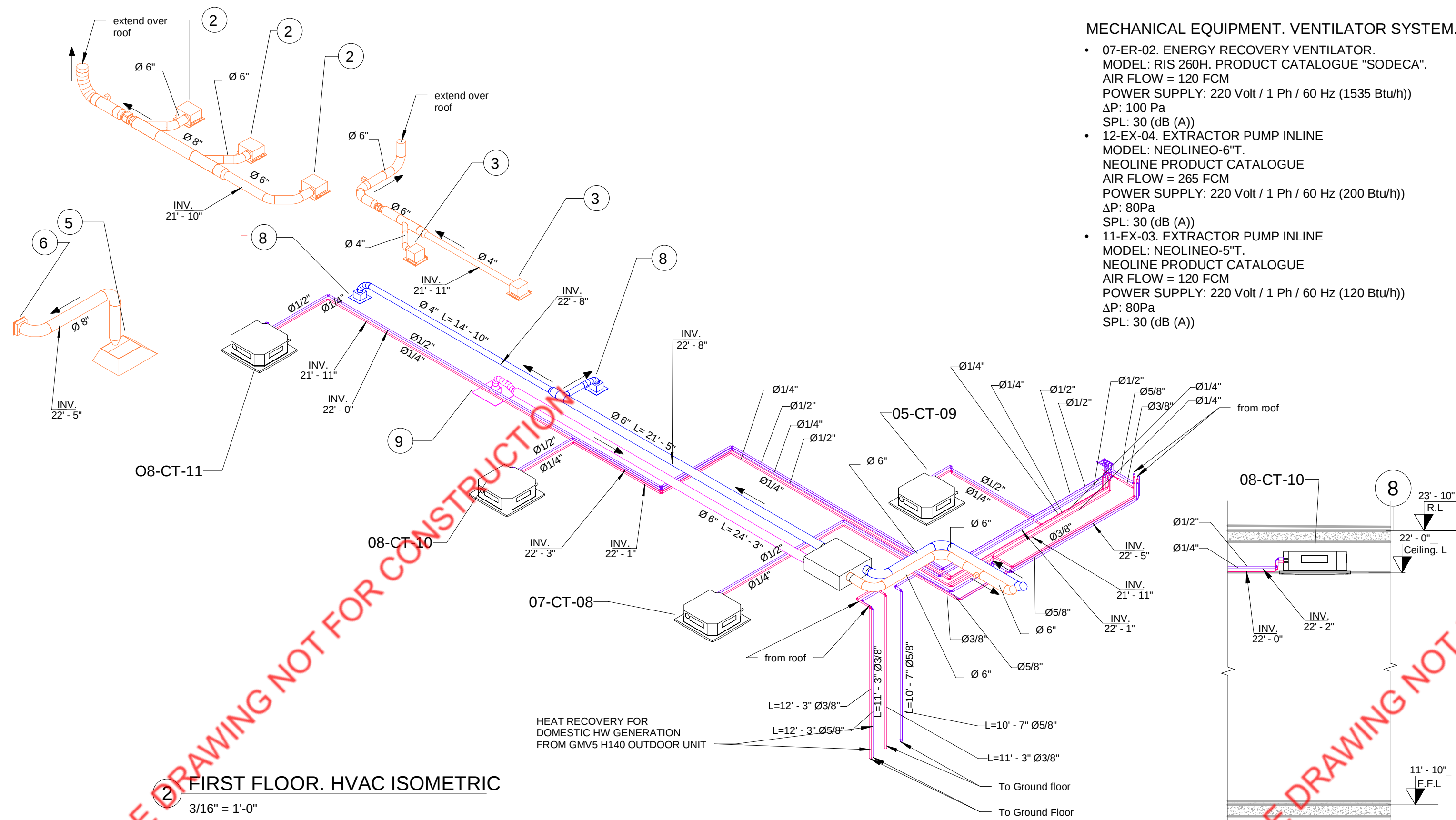
ROOM SCHEDULE	
Number	Name
FIRST FLOOR LAYOUT	
1	PERGOLA
2	ENTRANCE
3	HALL
4	STAIRS
5	FAMILY ROOM
6	CLOSET
7	POICCE
8	LIVING ROOM/ DINING ROOM/ KITCHEN
9	POWDER ROOM
10	BATTERIES
11	GARAGE
12	PASSAGE
13	HALL
14	PANTRY
15	TERRACE
16	BBQ
17	BALCONY
26	Room



6 SECTION 6-6
1/4" = 1'-0"

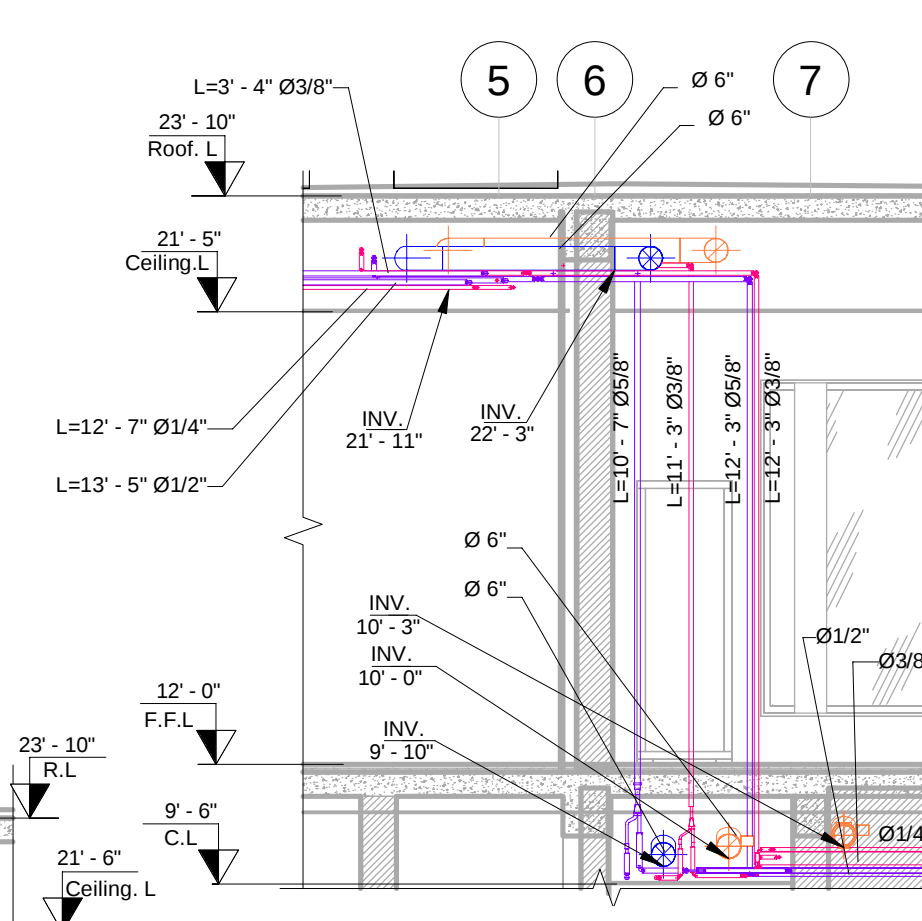
COOLING EQUIPMENT. INDOOR AND OUT DOOR UNITS. GMV5 HOME. GREE PRODUCT CATALOGUE.							
ROOM NUMBER	EQUIPMENT REFERENCE	COOLING CAPACITY CALCULATED (Tons)	COOLING CAPACITY EQUIPMENT (Tons)	AIR FLOW VOL. (CFM)	POWER SUPPLY		DESCRIPTION
					VOLT. / Ph / Hz	POWER (Btu/h)	
05	05-CT-09	1.2	1.5	310 / 500	220 / 1 / 60	170.0 Btu/h	CASSETTE TYPE
07	07-CT-08	1.0	1.0	320 / 440	220 / 1 / 60	165.0 Btu/h	CASSETTE TYPE
02 / 03 / 04 / 08	08-CT-10	1.5	1.5	310 / 500	220 / 1 / 60	170.0 Btu/h	CASSETTE TYPE
02 / 03 / 04 / 08	08-CT-11	1.5	1.5	310 / 500	220 / 1 / 60	170.0 Btu/h	CASSETTE TYPE

AIR TERMINAL GRILLE AND KITCHEN BLOWER								
GRILLE NUMBER	GRILLE TYPE	COUNT	FLOW (CFM)	SIZE (")	FREE AREA (F ²)	ΔP(Pa)	SOUND PRESSURE LEVEL(dB(A))	DESCRIPTION
2	EXHAUST AIR	3	120 CFM	8"X12"	0.28	2	11	SINGLE DEFLECTION, CEILING MOUNTING
3	EXHAUST AIR	2	60 CFM	6"X12"	0.22	1	10	SINGLE DEFLECTION, CEILING MOUNTING
5	K. BLOWER EXHAUST	1	300 CFM	26"X38"	-	50	20	INDOOR INLINE KITCHEN BLOWER EXHAUST FAN
6	EXTERNAL EXHAUST	1	360 CFM	12"X12"	0.60	50	30	EXTERNAL RAIN (WALL CONDUIT 10")
8	SQUARE DIFFUSER	2	60 CFM	6"X6"	0.14	14	20	ONE, TWO OR THREE FLOW PATTERN
9	SQUARE DIFFUSER	1	120 CFM	9"X9"	0.30	7	14	ONE, TWO OR THREE FLOW PATTERN
10	EXTERNAL EXHAUST	1	120 CFM	DN 6"	-	50	30	EXTERNAL RAIN HOOD (WALL CONDUIT 6")



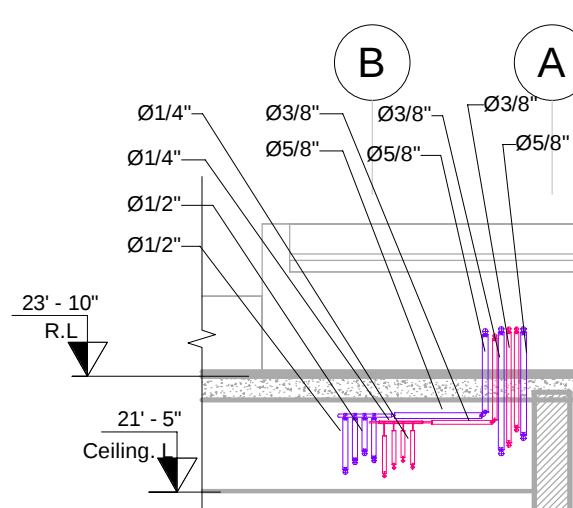
2 FIRST FLOOR. HVAC ISOMETRIC
3/16" = 1'-0"

- MECHANICAL EQUIPMENT. VENTILATOR SYSTEM.
- 07-ER-02. ENERGY RECOVERY VENTILATOR. MODEL: RIS 260H. PRODUCT CATALOGUE "SODECA". AIR FLOW = 120 FCM. POWER SUPPLY: 220 Volt / 1 Ph / 60 Hz (1535 Btu/h). ΔP: 100 Pa. SPL: 30 (dB (A))
 - 12-EX-04. EXTRACTOR PUMP INLINE. MODEL: NEOLINEO-6" T. NEOLINE PRODUCT CATALOGUE. AIR FLOW = 265 FCM. POWER SUPPLY: 220 Volt / 1 Ph / 60 Hz (200 Btu/h). ΔP: 80Pa. SPL: 30 (dB (A))
 - 11-EX-03. EXTRACTOR PUMP INLINE. MODEL: NEOLINEO-5" T. NEOLINE PRODUCT CATALOGUE. AIR FLOW = 120 FCM. POWER SUPPLY: 220 Volt / 1 Ph / 60 Hz (120 Btu/h). ΔP: 80Pa. SPL: 30 (dB (A))



- PIPING SYSTEM LEGEND
- EXHAUST LINE
 - AIR SUPPLY LINE
 - RETURN AIR LINE
 - GAS CONNECTION LINE
 - LIQUID CONNECTION LINE
- Ø: Piping Size (") Flow direction
L: Pipe Length
- Inv. Top: Outside Top Elevation Elev. Ref Current Level
Pipe
Inv. Bot: Outside Bottom Elevation Elev. Ref Current Level
Pipe

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



9 SECTION 9-9
1/4" = 1'-0"

GENERAL NOTES

- ALL DUCTS AND PIPES WILL PASS THROUGH THE CEILING.
- AIR TERMINALS, DIFFUSER, INDOOR UNITS ELEVATION, DUCTING INSTALLATION WILL MUST BE ADJUSTED AS PER DROP CEILING, CEILING BULKHEAD OR INDICATED WALL HIGH CORRELATION.
- COPPER PIPING DIAMETER (GAS AND LIQUID) TO BE VERIFY, WITH A LOCAL COOLING EQUIPMENT SALES ENGINEER.
- THE VENTILATION DUCTS WILL BE MADE OF GALVANIZED STEEL, ASTM STANDARD.
- EXECUTE THERMAL INSULATION, WITH ARMAFLEX AND SELF-ADHESIVE ALUMINUM TAPE.
- WILL BE THE PLUMBING CONTRACTOR RESPONSIBILITY FOLLOW THE CONSTRUCTIONS PLANS AND SPECIFICATIONS, ALSO, THE CONSTRUCTION PROCEDURES UNDER THE LOCAL AND INTERNATIONAL CODES ALLOWED USE BY BUILDING BOARD IN THE ISLAND.

LOCATION



FRIGATE BAY HOUSING DEVELOPMENT
SECTION DA/17, LOT 11

CAPTION

NOTES

REVIEWS

VERSION N°	DATE	APPROVED

REFERENCE FILES

FILE N°	DESCRIPTION

DESIGNERS

PROJECT MANAGEMENT: Bs.c Eng. Raudel Moreno	
ENGINEER: MSc. Eng. YEMIR PINO PUEBLA	DRAFTSMAN: MSc. Eng. YEMIR PINO PUEBLA

PROJECT NAME

ZACHARIAS NEWMAN
RESIDENCE

PLAN NAME

FIRST FLOOR. HVAC
SYSTEMS.

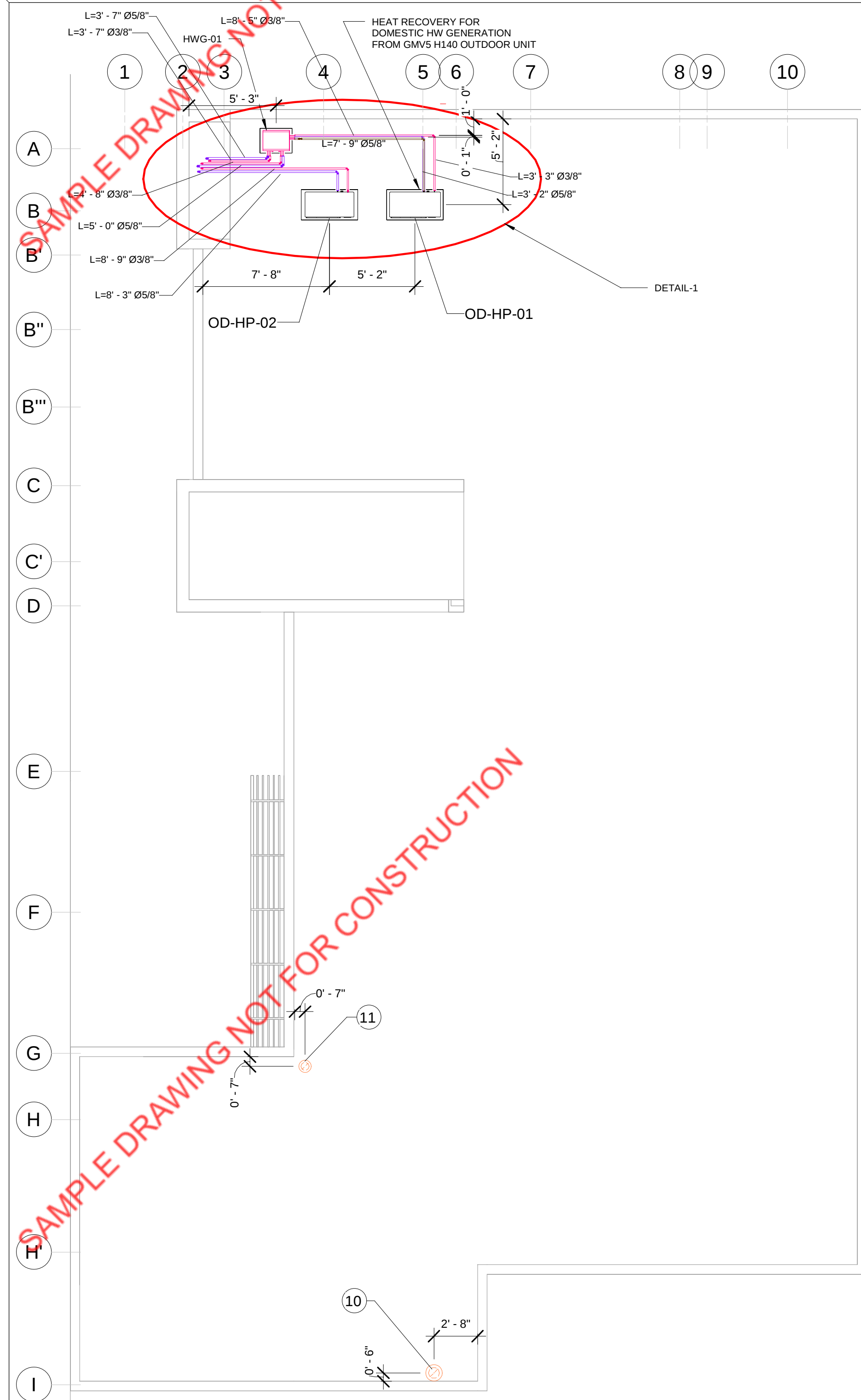
DESCRIPTION

First Floor, Ventilation & Air Conditioning System

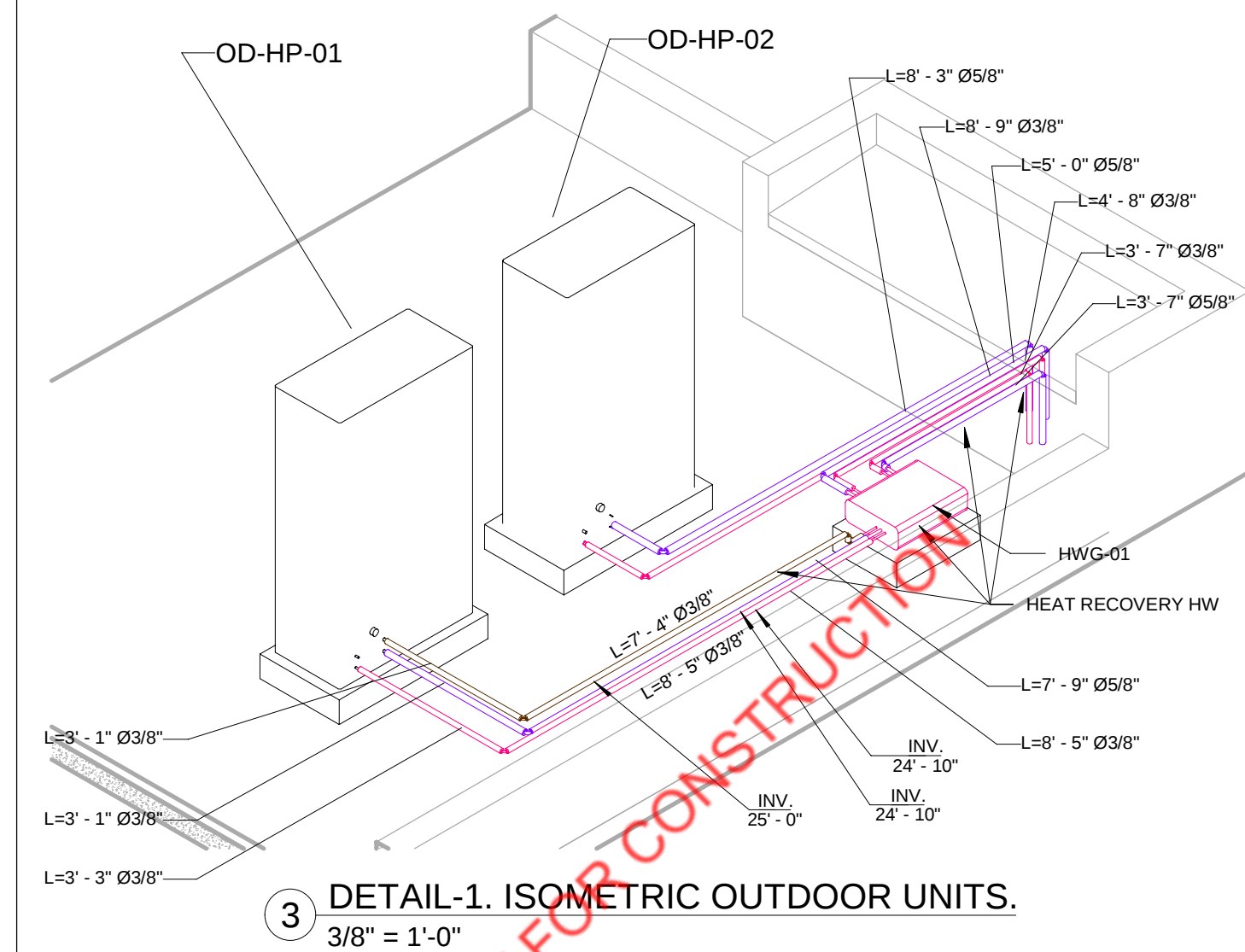
SCALE

INDICATED	
UNIT	
Feet/Inches	

10/08/24



1 ROOF PLAN. HVAC SYSTEMS.
3/16" = 1'-0"



3 DETAIL-1. ISOMETRIC OUTDOOR UNITS.
3/8" = 1'-0"

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PIPE FITTING SCHEDULE			
TYPE	MATERIAL	SIZE	COUNT
M. Cooper Heating Recovery			
ELBOW-90-FF	Copper	3/8"Ø-3/8"Ø	3
M. Refrigerant Gas Connection			
ELBOW-90-FF	Copper	1/2"Ø-1/2"Ø	47
ELBOW-90-FF	Copper	3/8"Ø-3/8"Ø	4
JOINTS	Copper	5/8"Ø-3/8"Ø	2
ELBOW-90-FF	Copper	5/8"Ø-5/8"Ø	32
M. Refrigerant Liquid Connection			
JOINTS	Copper	1/2"Ø-3/8"Ø	1
ELBOW-90-FF	Copper	1/4"Ø-1/4"Ø	40
ELBOW-90-FF	Copper	3/8"Ø-3/8"Ø	39

ISOLATED REFRIGERANT PIPE		
MATERIAL	SIZE	LENGTH
Koppar/PE	1/2"Ø	317' - 2"
Koppar/PE	1/4"Ø	287' - 11"
Koppar/PE	3/8"Ø	281' - 3"
Koppar/PE	5/8"Ø	242' - 8"

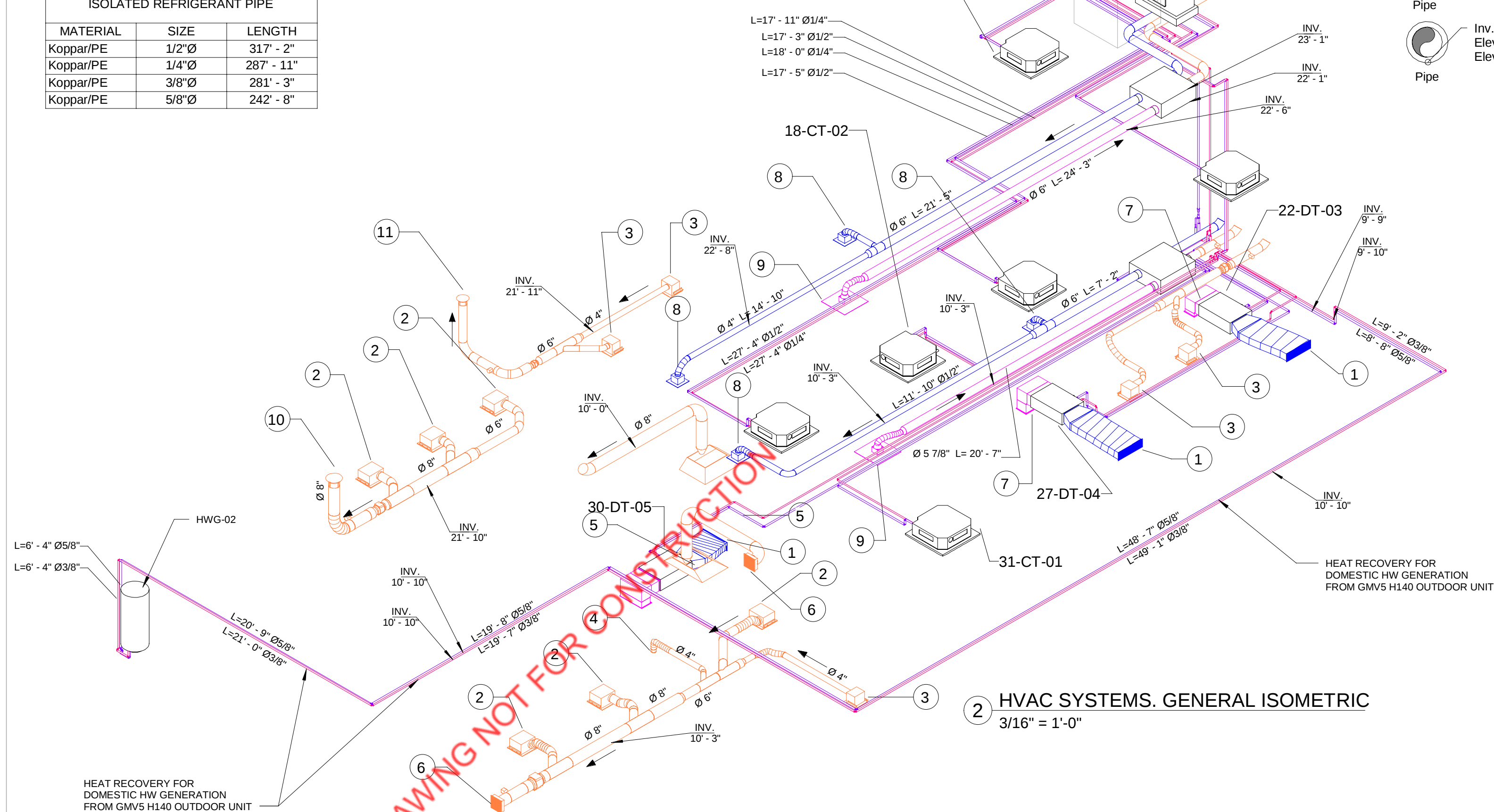
PIPE ACCESSORY SCHEDULE. REFRIGERANT SYSTEM.		
TYPE	SIZE	COUNT
M. Refrigerant Gas Connection		
FITTING-HEADER	5/8"Ø-1/2"Ø-1/2"Ø-1/2"Ø-1/2"Ø	1
FITTING JOINT	5/8"Ø-5/8"Ø-1/2"Ø	1
FITTING-HEADER	5/8"Ø-1/2"Ø-1/2"Ø-1/2"Ø-1/2"Ø	1
M. Refrigerant Liquid Connection		
FITTING-HEADER	3/8"Ø-1/4"Ø-1/4"Ø-1/4"Ø-1/4"Ø	1
FITTING-HEADER	3/8"Ø-1/4"Ø-1/4"Ø-1/4"Ø-1/4"Ø	1
FITTING JOINT	3/8"Ø-3/8"Ø-3/8"Ø	1
CONNECTOR MODULE	5/8"Ø-5/8"Ø-5/8"Ø-3/8"Ø-3/8"Ø-3/8"Ø-3/8"Ø	1

DUCT FITTING SCHEDULE		
Family and Type	Size	Count
Exhaust Air		
M. Round Elbow: 1.5 D	4"Ø-4"Ø	7
M. Round Elbow: 1.5 D	6"Ø-6"Ø	15
M. Round Elbow: 1.5 D	8"Ø-8"Ø	4
M. Round Transition - Angle: 45 Degree	4"Ø-4"Ø	1
M. Round Transition - Angle: 45 Degree	6"Ø-4"Ø	5
M. Round Transition - Angle: 45 Degree	6"Ø-5"Ø	2
M. Round Transition - Angle: 45 Degree	6"Ø-6"Ø	2
M. Round Transition - Angle: 45 Degree	8"Ø-3"Ø	2
M. Round Transition - Angle: 45 Degree	8"Ø-6"Ø	4
M. Round Transition - Angle: 45 Degree	8"Ø-8"Ø	4
Pipe_Venting_AMPKO_Tee-Lateral-45: N	6"Ø-6"Ø-4"Ø	3
Pipe_Venting_AMPKO_Tee-Lateral-45: N	6"Ø-6"Ø-6"Ø	1
Pipe_Venting_AMPKO_Tee-Lateral-45: N	8"Ø-8"Ø-6"Ø	4
Return Air		
M. Rectangular Elbow - Mitred: Standard	9"x21"-9"x21"	3
M. Rectangular Transition - Angle: 45 Degree	21"x9"-21"x9"	3
M. Round Transition - Angle: 45 Degree	6"Ø-4"Ø	4
M. Round Transition - Angle: 45 Degree	6"Ø-6"Ø	1

HW GENERATOR FROM HEAT RECOVERY
• HWG-01. CONNECTOR MODULE.
• HOT WATER GENERATOR. OUTDOOR UNIT.
MODEL: GMV5 H 140. PRODUCT CATALOGUE "GREE".
HEATING POWER: 220 Volt / 1 Ph / 60 Hz (12966 Btu/h)

GENERAL NOTES

- ALL DUCTS AND PIPES WILL PASS THROUGH FALSE CEILING.
- AIR TERMINALS, DIFFUSER, INDOOR UNITS ELEVATION, DUCTING INSTALLATION WILL MUST BE ADJUSTED AS PER DROP CEILING, CEILING BULKHEAD OR INDICATED WALL HIGH CORDINGLY.
- COPPER PIPING DIAMETER (GAS AND LIQUID) TO BE VERIFY, WITH A LOCAL COOLING EQUIPMENT SALES ENGINEER.
- THE VETILATION DUCTS WILL BE MADE OF GALVANIZED STEEL, ASTM STANDARD.
- EXECUTE THERMAL INSULATION, WITH ARMAFLEX AND SELF-ADHESIVE ALUMINUM TAPE.
- WILL BE THE PLUMBING CONTRACTOR RESPONSABILITY FOLLOW THE CONSTRUCTIONS PLANS AND SPECIFICATIONS, ALSO, THE CONSTRUCTION PROCEDURES UNDER THE LOCAL AND INTERNATIONAL CODES ALLOWED USE BY BUILDING BOARD IN THE ISLAND.



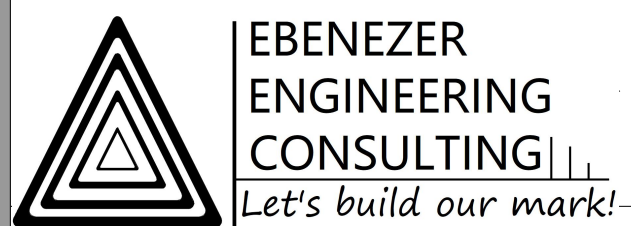
2 HVAC SYSTEMS. GENERAL ISOMETRIC
3/16" = 1'-0"

AIR TERMINAL GRILLE AND KITCHEN BLOWER								
GRILLE NUMBER	GRILLE TYPE	COUNT	FLOW (CFM)	SIZE (")	FREE AREA (Ft²)	ΔP(Pa)	SOUND PRESSURE LEVEL (dB(A))	DESCRIPTION
1	SUPPLY AIR	3	265 CFM	3"X23"	0.65	9	20	DOUBLE DEFLECTION, WALL MOUNTING.
2	EXHAUST AIR	6	120 CFM	8"X12"	0.28	2	11	SINGLE DEFLECTION, CEILING MOUNTING
3	EXHAUST AIR	5	60 CFM	6"X12"	0.22	1	10	SINGLE DEFLECTION, CEILING MOUNTING
4	EXHAUST AIR	1	30 CFM	DN 6"	-	5	10	CONNECTION TO PIPE DN 4"
5	K. BLOWER EXHAUST	2	300 CFM	26"X38"	-	50	20	INDOOR INLINE KITCHEN BLOWER EXHAUST FAN
6	EXTERNAL EXHAUST	2	360 CFM	12"X12"	0.60	50	30	EXTERNAL RAIN (WALL CONDUIT 10")
7	RETURN AIR	3	<varies>	9"X21"	0.44	5	24	SINGLE DEFLECTION, CEILING MOUNTING
8	SQUARE DIFFUSER	4	60 CFM	6"X6"	0.14	14	20	ONE, TWO OR THREE FLOW PATTERN
9	SQUARE DIFFUSER	2	120 CFM	9"X9"	0.30	7	14	ONE, TWO OR THREE FLOW PATTERN
10	EXTERNAL EXHAUST	1	120 CFM	DN 6"	-	50	30	EXTERNAL RAIN HOOD (WALL CONDUIT 6")
11	EXTERNAL EXHAUST	1	265 CFM	DN 8"	-	50	30	EXTERNAL RAIN HOOD (WALL CONDUIT 8")

COOLING EQUIPMENT. INDOOR AND OUT DOOR UNITS. GMV5 HOME. GREE PRODUCT CATALOGUE.							
ROOM NUMBER	EQUIPMENT REFERENCE	COOLING CAPACITY CALCULATED (Tons)	COOLING CAPACITY EQUIPMENT (Tons)	AIR FLOW VOL. (CFM)	VOLT. / Ph / Hz	POWER (Btu/h)	DESCRIPTION
05	05-CT-09	1.2	1.5	310 / 500	220 / 1 / 60	170.0 Btu/h	CASSETTE TYPE
07	07-CT-08	1.0	1.0	320 / 440	220 / 1 / 60	165.0 Btu/h	CASSETTE TYPE
02 / 03 / 04 / 08	08-CT-10	1.5	1.5	310 / 500	220 / 1 / 60	170.0 Btu/h	CASSETTE TYPE
04 / 18 / 19 / 20	18-CT-02	1.0	1.0	320 / 440	220 / 1 / 60	165.0 Btu/h	CASSETTE TYPE
22 / 24	22-DT-03	0.7	0.7	120 / 265	220 / 1 / 60	120.0 Btu/h	DUCT TYPE
25 / 27	27-DT-04	0.7	0.7	120 / 265	220 / 1 / 60	120.0 Btu/h	DUCT TYPE
29 / 30	30-DT-05	0.6	0.7	120 / 265	220 / 1 / 60	120.0 Btu/h	DUCT TYPE
31	31-CT-01	1.1	1.0	320 / 440	220 / 1 / 60	165.0 Btu/h	CASSETTE TYPE
02 / 03 / 04 / 08	08-CT-11	1.5	1.5	310 / 500	220 / 1 / 60	170.0 Btu/h	CASSETTE TYPE
ROOF FRAME	OD-HP-01	3.5	4	-	220 / 1 / 60	13660.0 Btu/h	HEAT PUMP. GMV5 H 140
ROOF FRAME	OD-HP-02	4.4	4.5	-	220 / 1 / 60	15370.0 Btu/h	HEAT PUMP. GMV5 H 160

DUCT FITTING SCHEDULE		
Family and Type	Size	Count
M. Rectangular Transition - Angle: 45 Degree	23"x6"-14"x8"	3
M. Round Elbow: 1.5 D	4"Ø-4"Ø	1
M. Round Elbow: 1.5 D	6"Ø-6"Ø	4
M. Round Tee: Standard	6"Ø-6"Ø-4"Ø	2
M. Round Transition - Angle: 45 Degree	6"Ø-4"Ø	2

DUCT ACCESSORY SCHEDULE.		
TYPE	SIZE	COUNT
Exhaust Air		
CIRCULAR FIRE STOP GATE VALVE	8"Ø-8"Ø	2
CIRCULAR FIRE STOP GATE VALVE	6"Ø-6"Ø	4



LOCATION



FRIGATE BAY HOUSING DEVELOPMENT
SECTION DA17. LOT 11

CAPTION

NOTES

REVIEWS

VERSION N°	DATE	APROVED
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REFERENCE FILES

FILE N°	DESCRIPTION
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DESIGNERS

PROJECT MANAGEMENT:
Bs.c Eng.Raudel Moreno

ENGINEER:
MSc. Eng. YEMIR PINO PUEBLA
DRAFTSMAN:
MSc. Eng. YEMIR PINO PUEBLA

PROJECT NAME

ZACHARIAS NEWMAN
RESIDENCE

PLAN NAME

ROOF PLANT. HVAC.
GENERAL ISOMETRIC.

DESCRIPTION

Roof Level, Ventilation & Air Conditioning System.
HVAC General Isometric.

SCALE

INDICATED

UNIT

Feet-Inches

DATE

10/08/24

M-104