

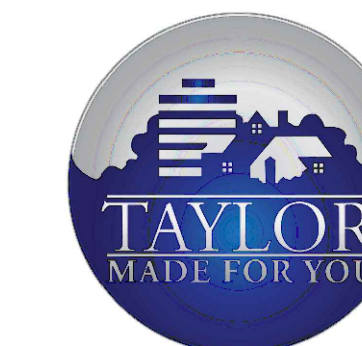


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Client:

City of Taylor  
23555 Goddard Rd.  
Taylor, MI 48180

Project:

City of Taylor  
Animal Shelter  
Remodel & Expansion

25555 Northline Rd.  
Taylor, MI 48180

Seal:



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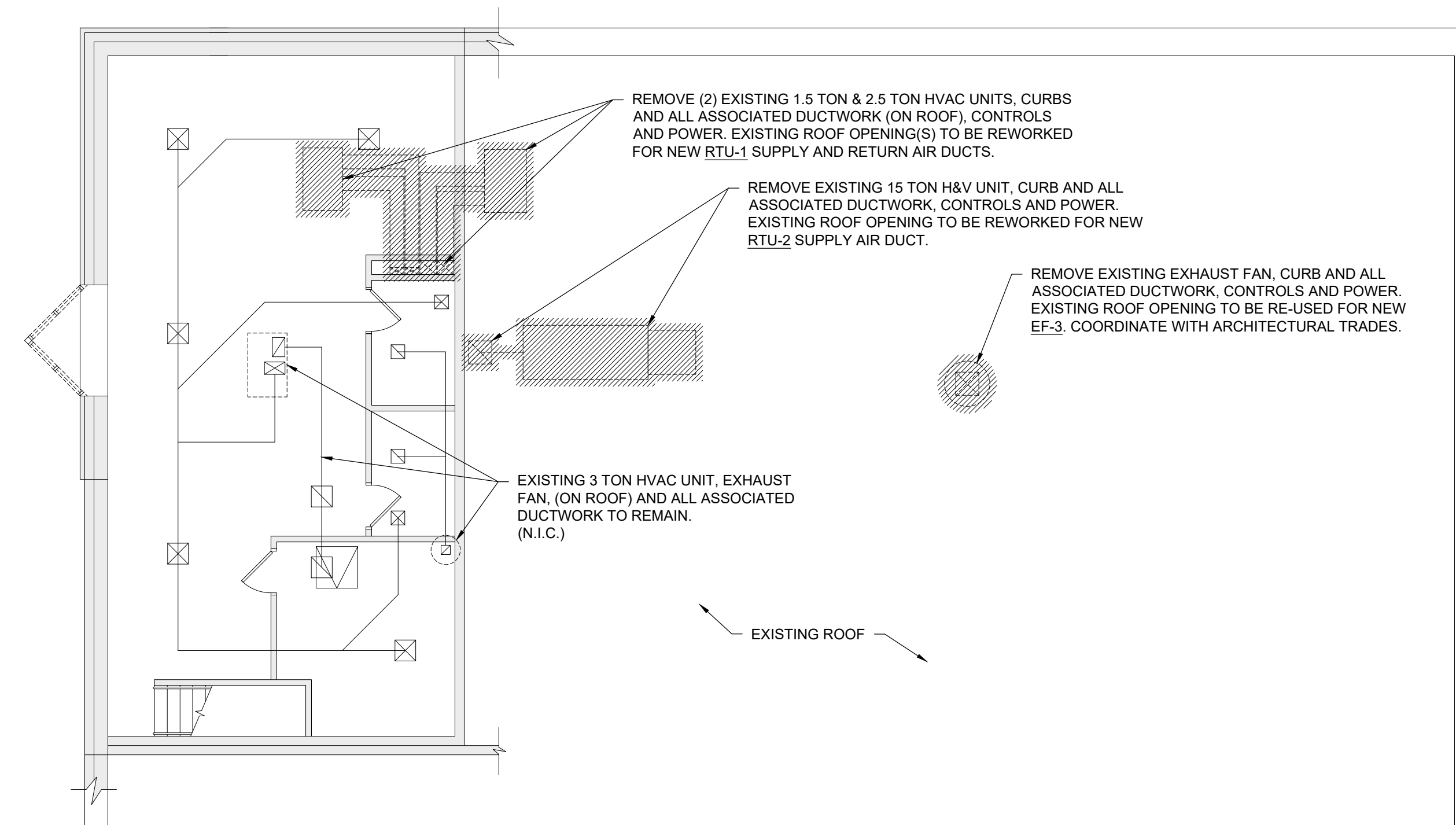
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Approved: WAD

Sheet Title:  
**MECHANICAL  
DEMOLITION  
FLOOR PLANS**

Project Number: 22712.A

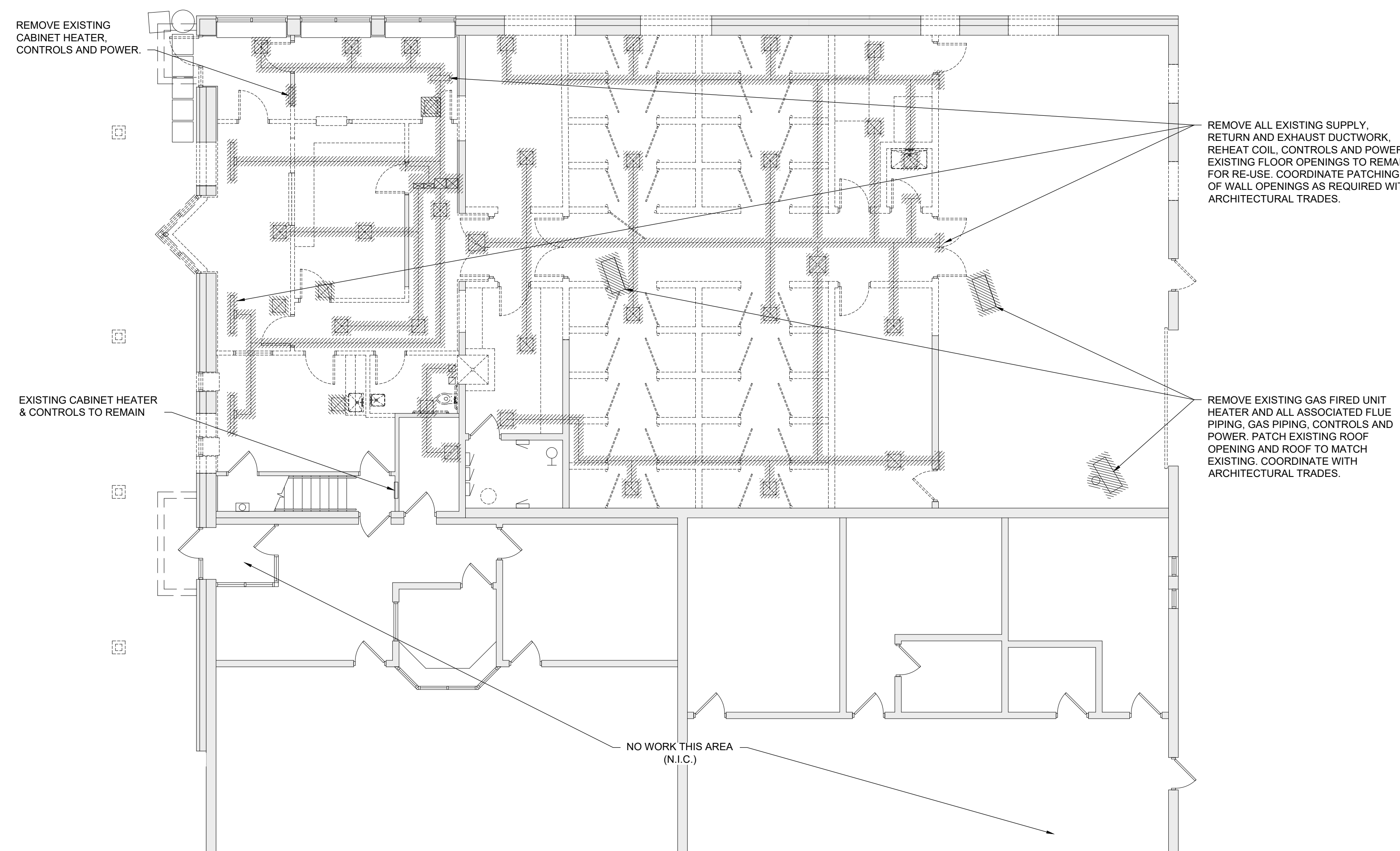
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**EXISTING SECOND FLOOR PLAN/ROOF - MECHANICAL DEMOLITION**

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



**EXISTING FIRST FLOOR PLAN - MECHANICAL DEMOLITION**

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



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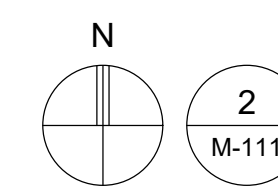
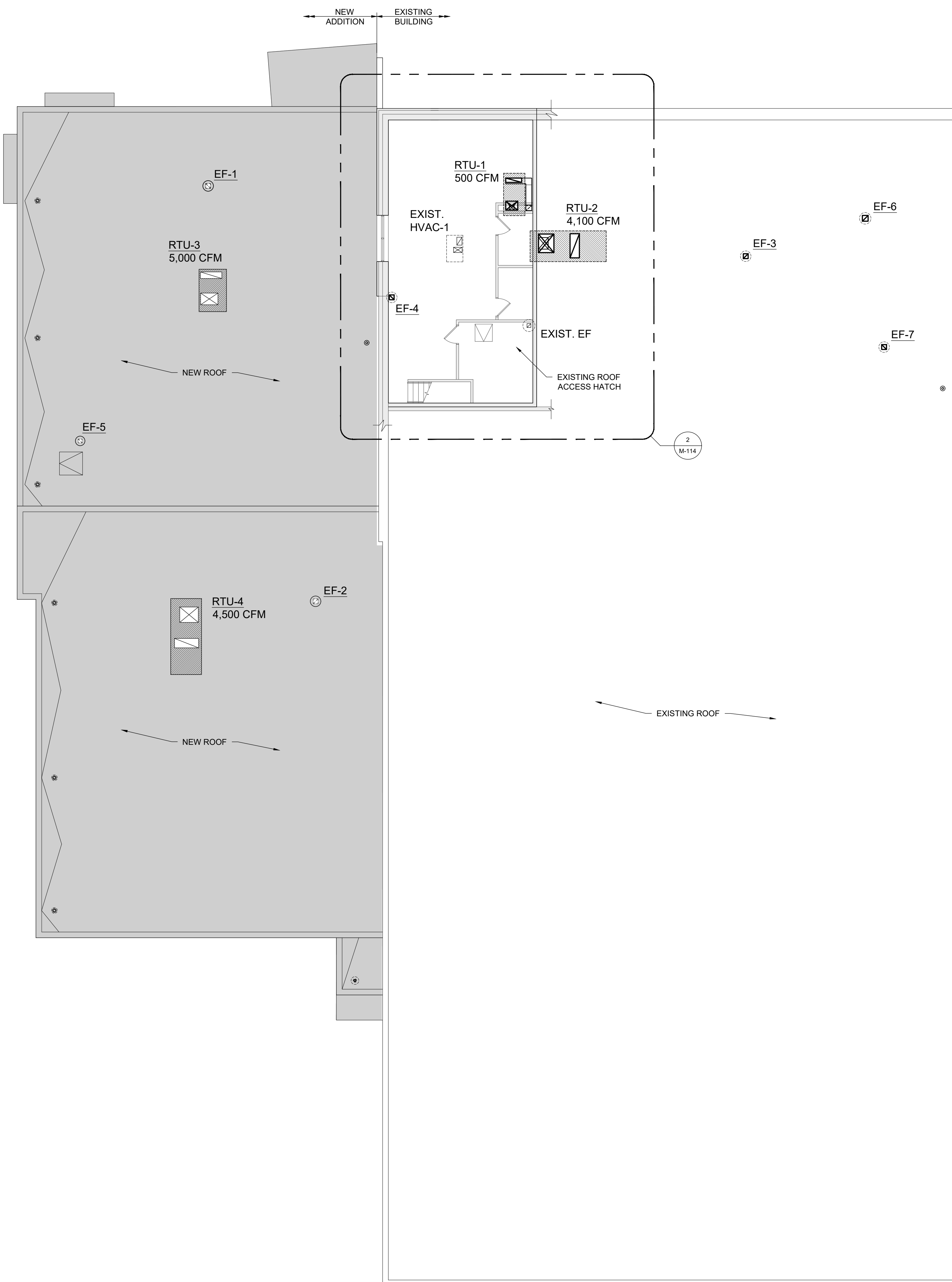
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Sheet Title:  
OVERALL HVAC  
FLOOR PLAN

Project Number: 22712.A

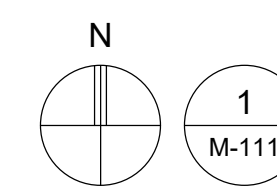
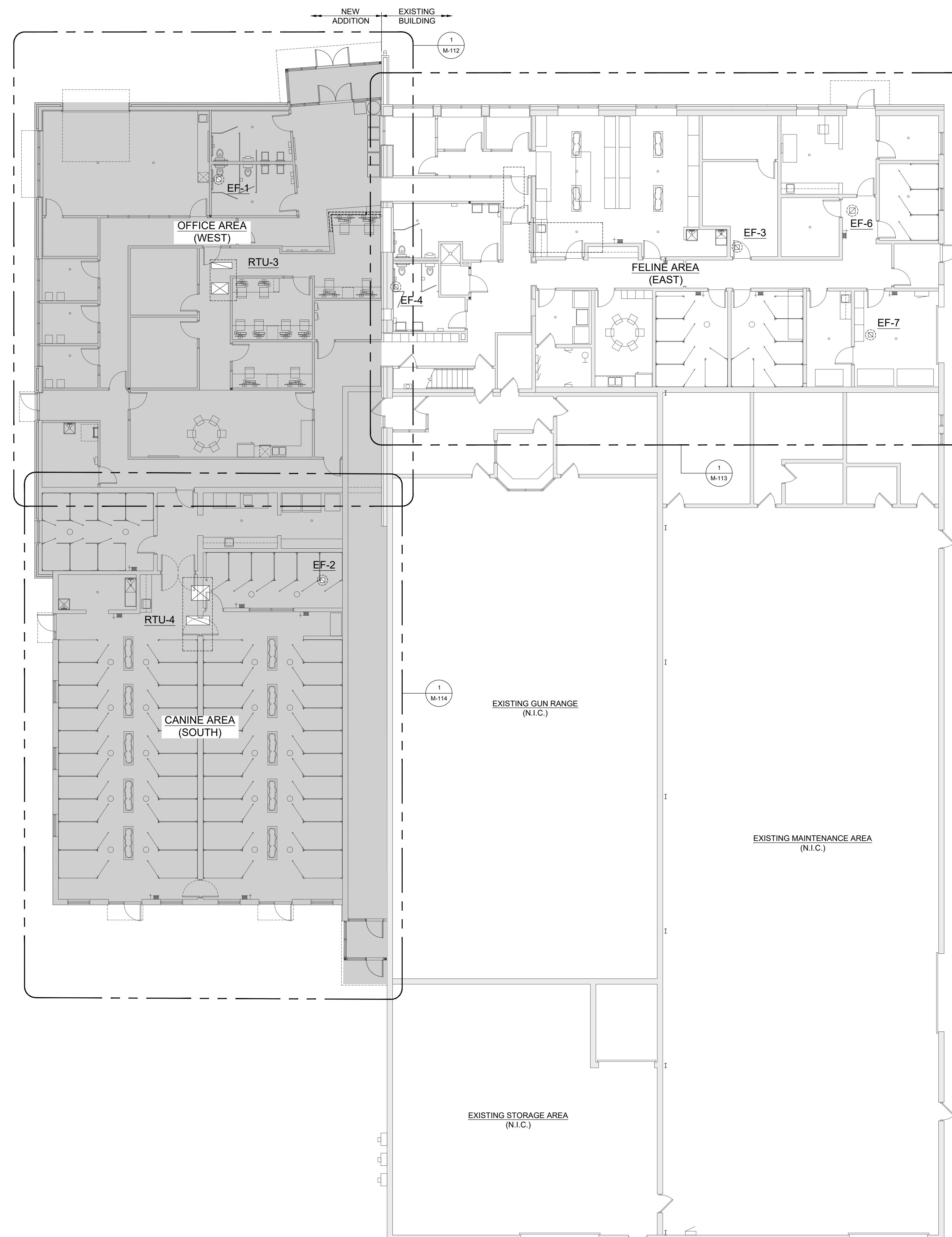
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HVAC OVERALL SECOND FLOOR/ROOF PLAN

SCALE: 3/32" = 1'-0"



HVAC OVERALL FIRST FLOOR PLAN

SCALE: 3/32" = 1'-0"

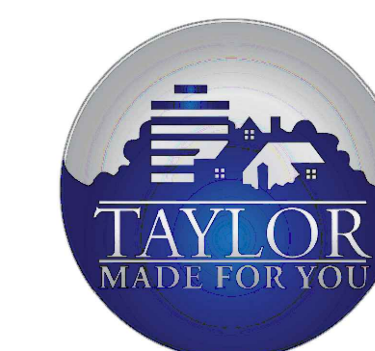


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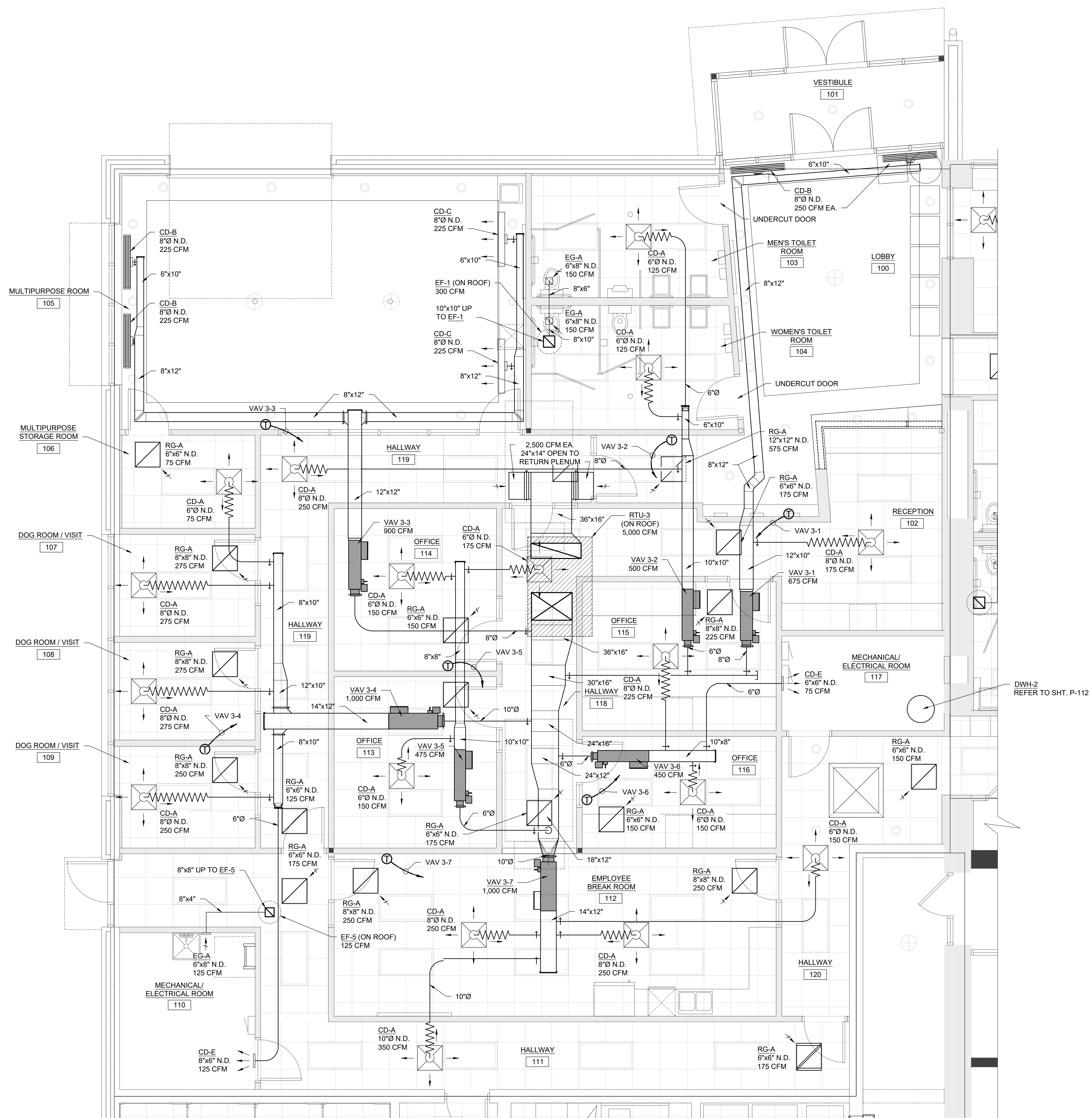
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HVAC  
FLOOR PLAN -  
WEST

Project Number: 22712.A

Sheet Number: M-112

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N  
1  
M-112  
HVAC FLOOR PLAN - WEST  
SCALE: 1/4" = 1'-0"



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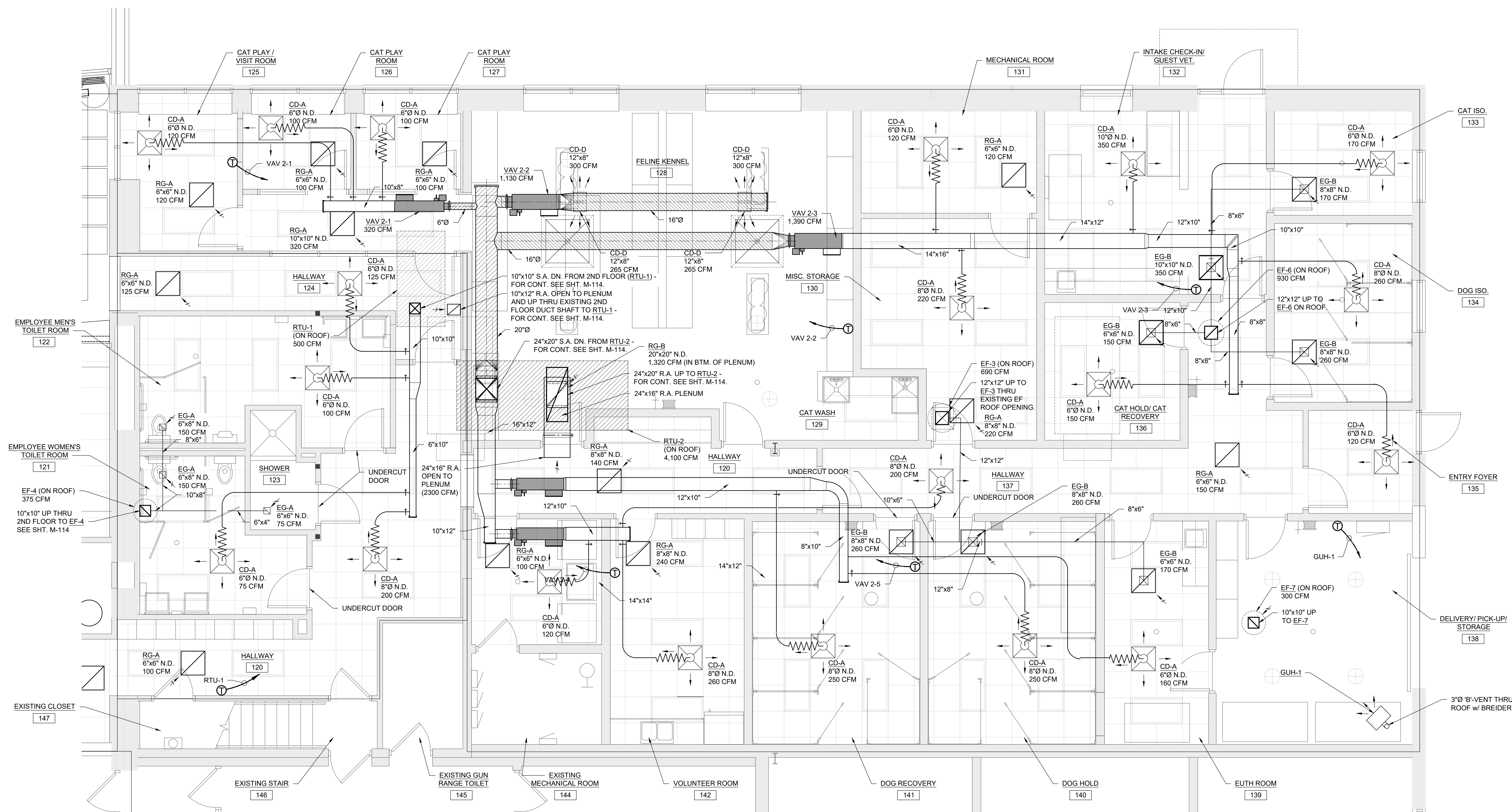
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HVAC  
FLOOR PLAN -  
EAST

Project Number: 22712.A

Sheet Number: M-113

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N  
1  
M-113  
HVAC FLOOR PLAN - EAST  
SCALE: 1/4" = 1'-0"



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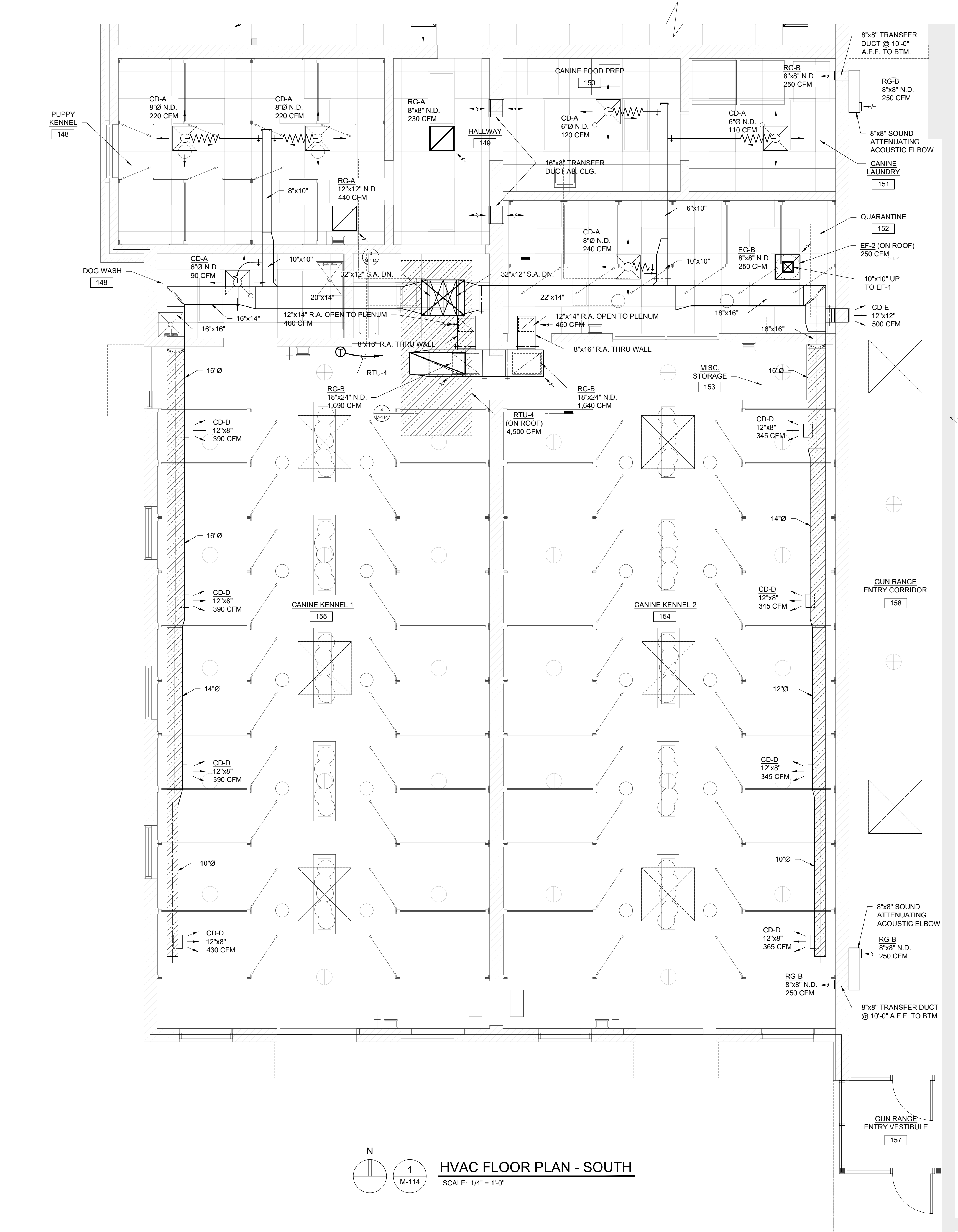
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Sheet Title:  
HVAC  
FLOOR PLAN -  
SOUTH

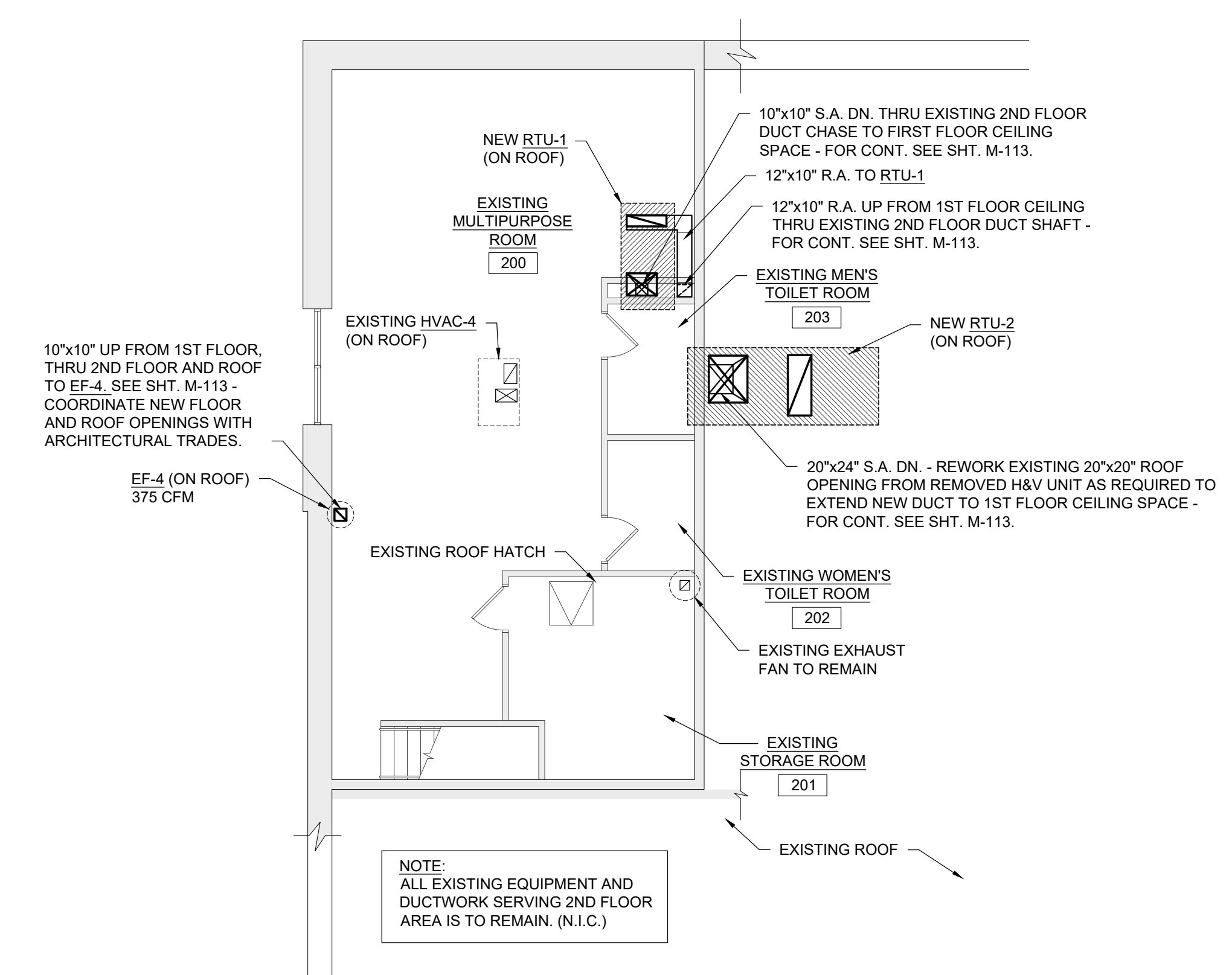
Project Number: 22712.A

Sheet Number: M-114

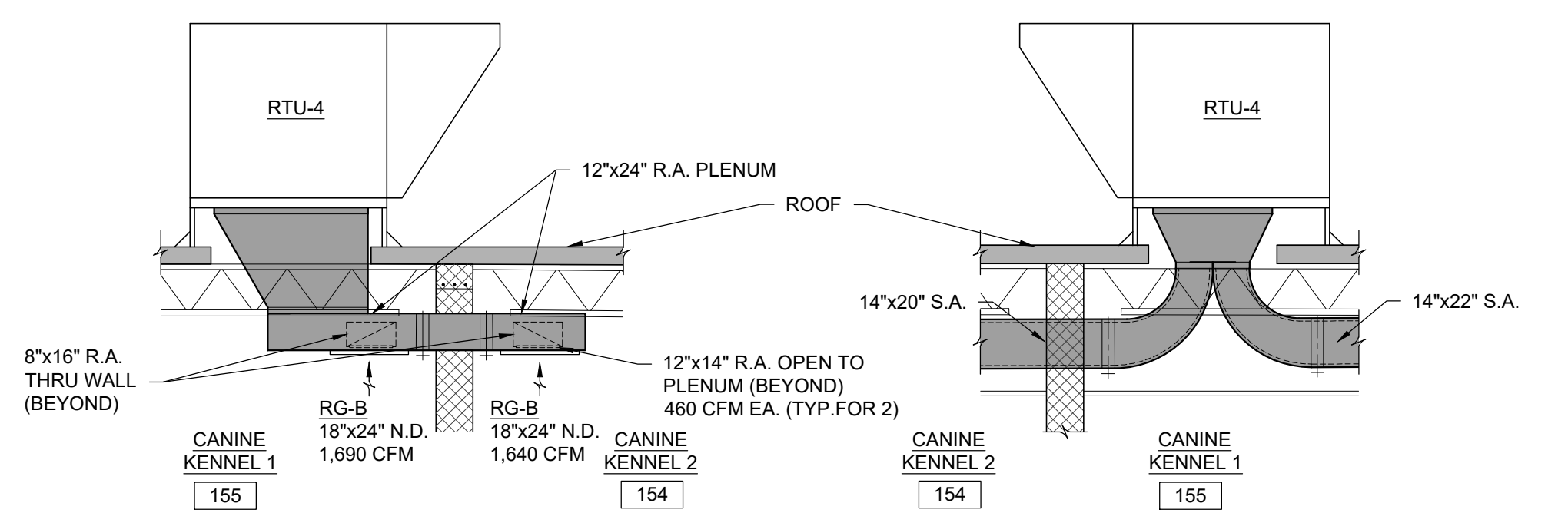
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1  
M-114  
HVAC FLOOR PLAN - SOUTH  
SCALE: 1/4" = 1'-0"

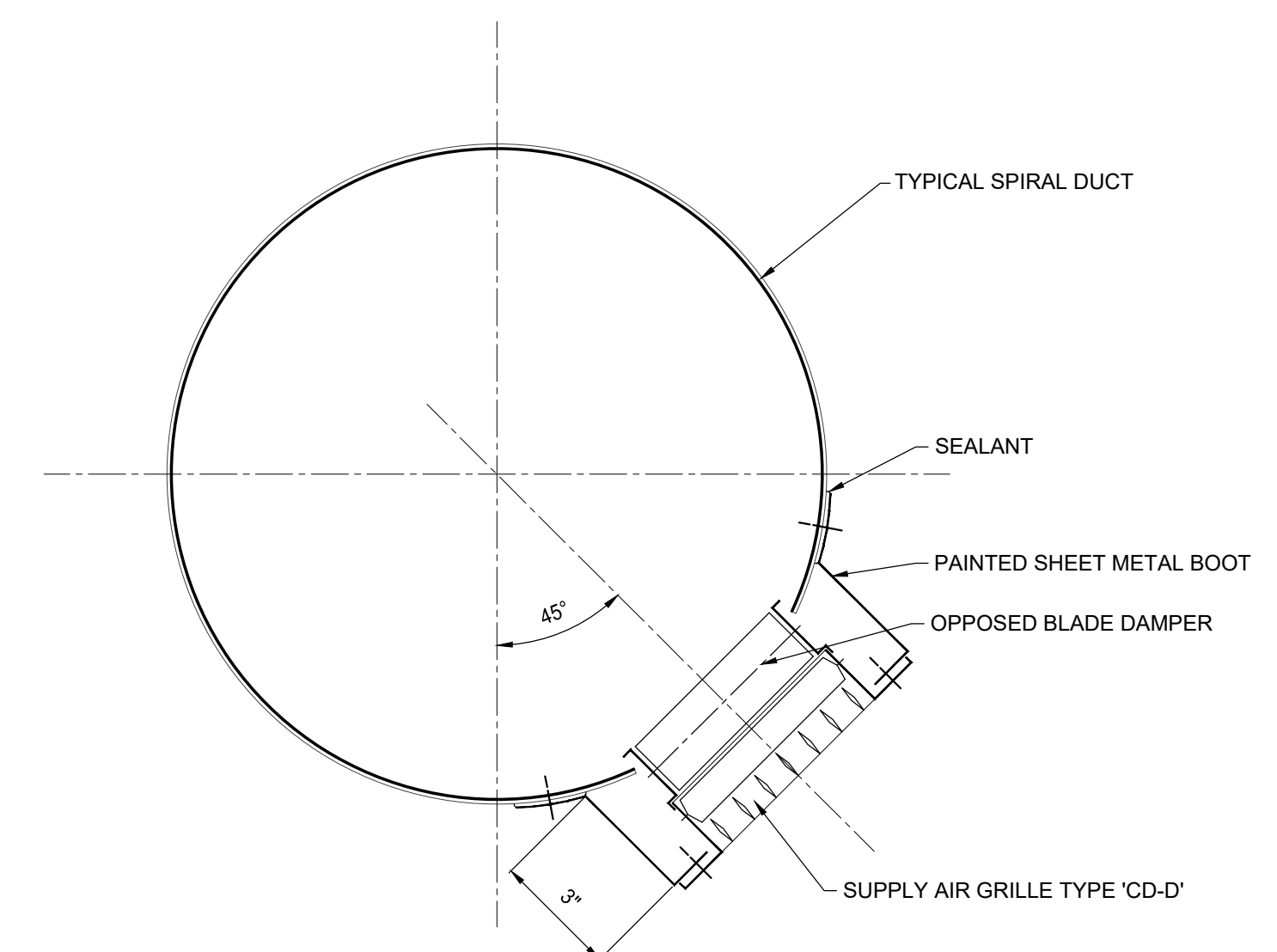


2  
M-114  
HVAC SECOND FLOOR/ROOF PLAN  
SCALE: 1/8" = 1'-0"



4  
M-114  
RETURN AIR DETAIL  
SCALE: 1/4" = 1'-0"

3  
M-114  
SUPPLY AIR DETAIL  
SCALE: 1/4" = 1'-0"



TYPICAL SPIRAL DUCT SUPPLY GRILLE DETAIL  
SCALE: NONE

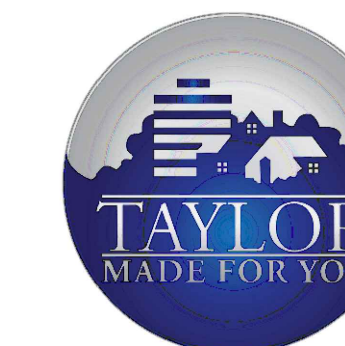


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Sheet Title:  
HVAC SCHEDULES

Project Number: 22712.A

Sheet Number: M-900

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ROOFTOP HVAC UNIT SCHEDULE

Table with columns: TAG, LOCATION, SERVING, SUPPLY AIR (CFM), RETURN AIR (CFM), MIN. OUTDOOR AIR (CFM), SUPPLY FAN DATA, DX COOLING COIL DATA, HEATING SECTION (INDIRECT GAS-FIRED), FILTER DATA, AIR-COOLED CONDENSING SECTION, DESIGN BASIS, ELECTRICAL, REMARKS.

NOTE 1: INCLUDES THROUGH THE BASE ELECTRICAL WITH NON-FUSED DISCONNECT SWITCH; GFCI, 120V/15A, 2 PLUG FACTORY WIRED CONVENIENCE OUTLET

ROOFTOP AIR HANDLING UNIT SCHEDULE (WITH ENERGY RECOVERY WHEEL).....PART 1

Table with columns: MARK, LOCATION, SYSTEM AND/OR SERVICE, ENERGY RECOVERY (ENTHALPY) WHEEL SECTION, SUPPLY FAN, EXHAUST FAN, REMARKS.

ROOFTOP AIR HANDLING UNIT SCHEDULE (WITH ENERGY RECOVERY WHEEL).....PART 2

Table with columns: MARK, LOCATION, SYSTEM AND/OR SERVICE, FILTERS, DX COOLING COIL DATA, AIR COLLED CONDENSING SECTION DATA, ELECTRICAL, DESIGN BASIS, REMARKS.

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE (OUTSIDE AIR COMPLIANCE AS PER 2015 MICHIGAN MECHANICAL CODE, TABLE 403.3)

Table with columns: MARK, PART OF, SERVING, GENERAL, VAV TERMINAL UNIT DATA, ELECTRIC REHEAT COIL DATA, DRAWING NUMBER, REMARKS.

NOTE 1: FACTORY PROVIDED INTERLOCKING DOOR DISCONNECT SWITCH LOCATED ON THE ELECTRIC HEATER CONTROL PANEL - TYPICAL FOR EACH VAV TERMINAL UNIT

NOTE 2: TRANSFORMER SHALL BE AN INTEGRAL COMPONENT OF THE HEATER CONTROL PANEL DEPENDENT ON UNIT LOAD REQUIREMENTS TO PROVIDE 24VAC FOR CONTROLS - TYPICAL FOR EACH VAV TERMINAL UNIT

NOTE 3: FOR ELECTRIC HEATER ACCESS, SIDE HINGED DOOR MUST HAVE MINIMUM DISTANCE (CLEARANCE) OF 36 INCHES

NOTE 4: BREATHING ZONE OUTDOOR AIRFLOW REQUIREMENT (Vbz) (2015 MICHIGAN MECHANICAL CODE - SECTION 403.3.1.1.1 & TABLE 403.3.1.1)

Vbz = Ra \* Aa + Rp \* Pz .....(EQUATION 4-1)

WHERE:

Aa = ZONE FLOOR AREA

Pz = ZONE POULATION

Rp = PEOPLE OUTDOOR AIR RATE

Ra = AREA OUTDOOR AIR RATE

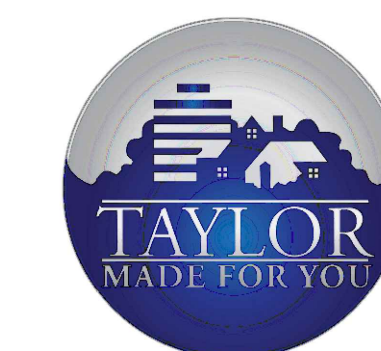


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Sheet Title: HVAC SCHEDULES

Project Number: 22712.A

Sheet Number: M-901

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EXHAUST FAN SCHEDULE															
TAG	SERVING	LOCATION	FAN TYPE	AIR QUANTITY (CFM)	EXT. ST. PR. (IN. W.C.)	RPM	DRIVE	BHP	HP	ELECTRICAL		DESIGN BASIS		DRAWING NUMBER	REMARKS
										VOLT	PHASE	MAKE	MODEL		
EF-1	PUBLIC TOILET ROOMS 103 & 104	ROOF	DOWNBLAST	300	0.375	1,550	DIRECT	0.06	1/20	120	1	GREENHECK	G-080-D	M-112	PRE-FAB ROOF CURB, GRAVITY BACKDRAFT DAMPER. INTERLOCK w/ RTU-3.
EF-2	QUARANTEEN 152	ROOF	DOWNBLAST	250	0.375	1,300	DIRECT	0.04	1/30	120	1	GREENHECK	G-085-G	M-114	PRE-FAB ROOF CURB, GRAVITY BACKDRAFT DAMPER. INTERLOCK w/ RTU-4.
EF-3	EUTH. 139, DOG RECOVERY 140 & 141	ROOF	DOWNBLAST	690	0.375	1,285	DIRECT	0.11	1/6	120	1	GREENHECK	G-099-B	M-113	PRE-FAB ROOF CURB, GRAVITY BACKDRAFT DAMPER. INTERLOCK w/ RTU-2.
EF-4	EMPLOYEE TOILETS 121 & 122 AND SHOWER 123	ROOF	DOWNBLAST	375	0.375	1,300	DIRECT	0.05	1/25	120	1	GREENHECK	G-095-G	M-113	PRE-FAB ROOF CURB, GRAVITY BACKDRAFT DAMPER. INTERLOCK w/ RTU-1.
EF-5	MECHANICAL ROOM 110	ROOF	DOWNBLAST	125	0.375	1,550	DIRECT	0.02	1/30	120	1	GREENHECK	G-065-D	M-112	PRE-FAB ROOF CURB, GRAVITY BACKDRAFT DAMPER. INTERLOCK w/ RTU-3.
EF-6	CHECK-IN 132, CAT ISO. 133, DOG ISO. 134 & Cat Recovery 136	ROOF	DOWNBLAST	930	0.375	1,350	DIRECT	0.14	1/6	120	1	GREENHECK	G-103-b	M-113	PRE-FAB ROOF CURB, GRAVITY BACKDRAFT DAMPER. INTERLOCK w/ RTU-2.
EF-7	DELIVERY/PICK-UP/STORAGE 138	ROOF	DOWNBLAST	300	0.375	1,550	DIRECT	0.06	1/20	120	1	GREENHECK	G-080-D	M-113	PRE-FAB ROOF CURB, GRAVITY BACKDRAFT DAMPER. MANUAL WALL SWITCH CONTROL.

DIFFUSER, REGISTER AND GRILLE SCHEDULE																	
TAG	SERVICE & TYPE	MODEL NUMBERS (DESIGN BASIS)	ACCESSORIES				MATERIAL			FINISH		COLOR			REMARKS		
			CONTROL GRID	OPPOSED BLADE DAMPER	SQ. TO ROUND ADAPTER	SEPARATE PLASTER FRAME	INLET DAMPER	STEEL	ALUMINUM	OTHER	BAKED ENAMEL	LACQUER	ANODIZED	STANDARD BLACK		CLEAR OR LACQUER	STD OFF-WHITE
CD-A	LOUVERED FACE CEILING DIFFUSER	TITUS MODEL TDC-AA			X				X	X				X			BORDER TYPE - LAY IN
CD-B	PLENUM SLOT DIFFUSER	TITUS MODEL ML-39				X	X	X		X				X			(4) 1" SLOTS; 48"L.; MP-39 PLENUM; SURFACE MOUNT w/ PLASTER FRAME
CD-C	PLENUM SLOT DIFFUSER	TITUS MODEL ML-39				X	X	X		X				X			(4) 1" SLOTS; 48"L.; FABRICATED DUCT PLENUM; SURFACE MOUNT w/ PLASTER FRAME
CD-D	DUCT MOUNTED SUPPLY AIR GRILLE	TITUS MODEL 300RL	X					X		X				X			FABRICATED PAINTED SHEET METAL BOOT; SEE DETAIL, SHT. M-114
CD-E	SURFACE MOUNTED SUPPLY AIR GRILLE	TITUS MODEL 300RL	X					X		X				X			
RG-A	PERFORATED CEILING RETURN AIR GRILLE	TITUS MODEL PAR-AA							X	X				X			BORDER TYPE - LAY IN
RG-B	SURFACE MOUNTED RETURN AIR GRILLE	TITUS MODEL 350ZRL							X	X				X			0 DEGREE DEFLECTION
EG-A	EXHAUST AIR GRILLE	TITUS MODEL 350	X					X		X				X			SURFACE CEILING OR DUCT MOUNT
EG-B	PERFORATED CEILING EXHAUST AIR GRILLE	TITUS MODEL PAR-AA	X					X		X				X			BORDER TYPE - LAY IN

NOTES

- MODEL NUMBERS ARE FOR GENERAL IDENTIFICATION. SPECIFIC MODEL NUMBERS DEPEND ON APPLICABLE NOTES AND ARCHITECTURAL PLANS. VERIFY MOUNTING TYPE AND DIMENSIONS WITH ARCHITECTURAL WORK. REFER TO ARCHITECTURAL SPECIFICATIONS, RE
- REFER TO DRAWINGS FOR NECK SIZES.