

(E)VTR



(E)4"RD



(E)4"OD

(E)VTR



” PUTTY

7

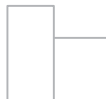
TYPICAL PIPE HANGER DETAIL

SCALE: NONE

LAP

TAIL

PUTTY

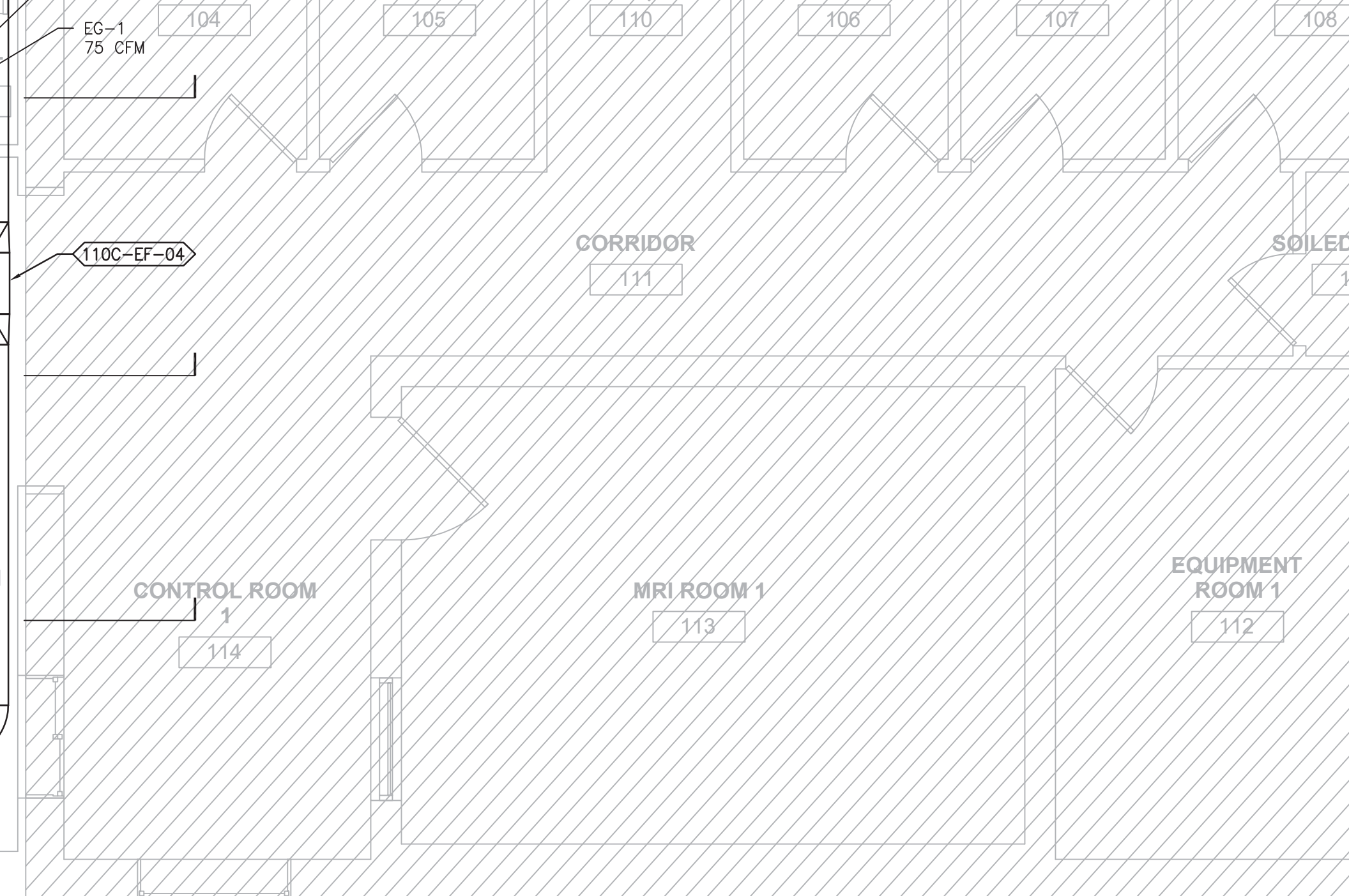


FC	
	VANED ELBOW (PROVIDE ALL SQUARE OR RECTANGULAR ELBOWS WITH VANES EVEN IF SYMBOL IS MISSING)
	VANED ELBOW (SHORT RADIUS)
	STANDARD RADIUS ELBOW (LONG RADIUS)
	NEW DUCT (INSIDE DIMENSIONS: WIDTH x DEPTH)
	EXISTING DUCT TO REMAIN
	EXISTING DUCT TO BE REMOVED
	FLEXIBLE DUCTWORK (INSULATED)
	MANUAL VOLUME DAMPER
	POINT OF CHANGE IN DUCT CONSTRUCTION BY STATIC PRESSURE CLASS. THE NUMBER ASSIGNS PRESSURE CLASS (IN. OF WATER) WHICH WILL ACCOMMODATE MAXIMUM OPERATING PRESSURE IN THE DUCT SUBSECTION. THE SYMBOL CONTINUES THE ASSIGNMENT UNTIL THE DUCT TERMINATES OR ANOTHER SYMBOL APPEARS. A "N" SUPERSCRIPT INDICATES NEGATIVE PRESSURE.
	AUTOMATIC CONTROL DAMPER MODULATING
	AUTOMATIC CONTROL DAMPER TWO POSITION

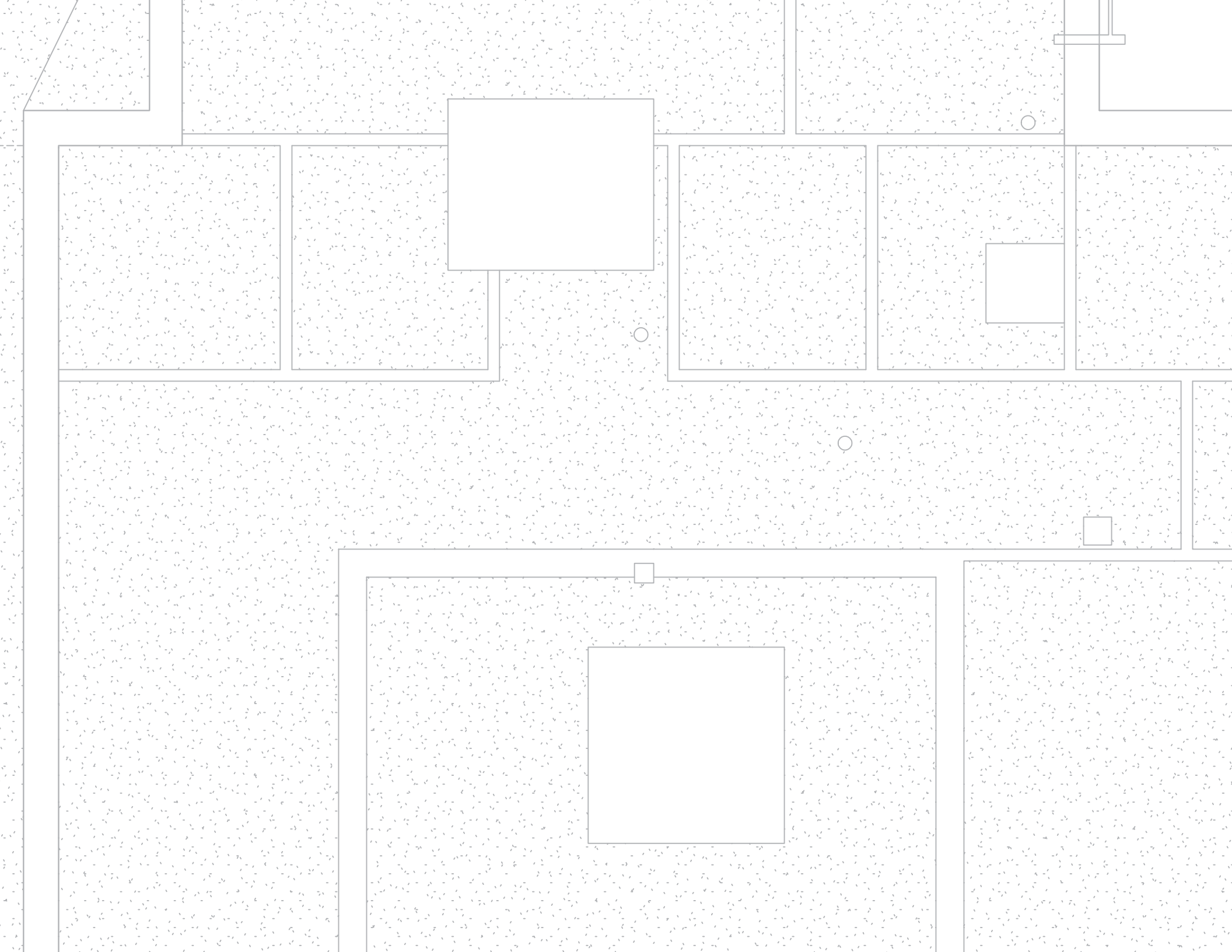
ITEMS IN THEIR SCOPE OF WORK WHICH COULD REQUIRE ADDITIONAL MECHANICAL/PLUMBING WORK, AND ITEMS THAT ARE NOT INDICATED

- THIS INSTALLATION WILL CONFORM TO ALL CODES AND THE REQUIREMENTS OF THE STATE, AND LOCAL REGULATORY AGENCIES HAVING JURISDICTION. IN PARTICULAR, ALL WORK WILL BE IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 96, INCLUDING ALL OF ITS APPLICABLE SUBCODES AND AMENDMENTS.
- ALL WORK WILL BE LAWFULLY EXECUTED IN A NEAT AND WORKMANLIKE MANNER. ALL WORK WILL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING CODES (AS APPLICABLE), STANDARDS, AND IN CONFORMANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS.
- WORK UNDER THIS CONTRACT SHALL CONSIST OF THE CONTRACTOR PROVIDING ALL LABOR, MATERIALS, AND SERVICES, INCLUDING WORK NOT SPECIFICALLY IDENTIFIED BUT REASONABLY IMPLIED. THIS SHALL INCLUDE CUTTING, PATCHING AND REPAIRING OF EXISTING SURFACES DAMAGED DURING THE CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT SHOWN OR SPECIFIED OR AN APPROVED EQUIVALENT. SUBSTITUTED EQUIPMENT OR MATERIALS SHALL NOT BE INSTALLED WITHOUT THE PREVIOUS APPROVAL BY THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COSTS INCURRED FOR NOT FOLLOWING THESE CONTRACT DOCUMENTS. CONTRACTOR WILL NOT BE ALLOWED TO CLAIM FOR PROBLEMS ARISING FROM NEGLECT OF PROVISIONS INCLUDED IN THESE CONTRACT DOCUMENTS.
- MAINTAIN ORDERLY HOUSEKEEPING DURING CONSTRUCTION, AND UPON COMPLETION PERFORM FINAL CLEANUP. REMOVE CONSTRUCTION RUBBISH, DEBRIS, EQUIPMENT, TEMPORARY PROTECTION, TEMPORARY FIELD STRUCTURES, MATERIALS OR EQUIPMENT THAT WAS REQUIRED IN CONNECTION WITH THE CONSTRUCTION, BUT NOT A PERMANENT PART THEREOF.
- THOSE PERFORMING WORK AS A CONTRACTOR MUST EXAMINE SUBSTRATE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND NOTIFY THE PROJECT CONSTRUCTION OFFICER IN WRITING, OF CONDITIONS DETRIMENTAL TO THE TIMELY COMPLETION OF THE WORK. COMMENCEMENT OF WORK BY A CONTRACTOR ON A SURFACE OR CONSTRUCTION SHALL IMPLY ACCEPTANCE OF SUCH SURFACE CONDITIONS. DO NOT PROCEED WITH INSTALLATION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND MANUFACTURERS DATA FOR ALL EQUIPMENT AND MATERIALS SPECIFIED ON DRAWINGS FOR APPROVAL BY THE PROJECT AGENT FOR THE OWNER. THESE DRAWINGS OR SHEETS SHALL CONTAIN THE FOLLOWING DATA, I.E., MANUFACTURER, CATALOG NUMBER, SIZE, DIMENSIONS, CAPACITY, DETAILS AND ALL OTHER ENGINEERING DATA AND DETAILS NECESSARY FOR CLARITY AND INSTALLATION.

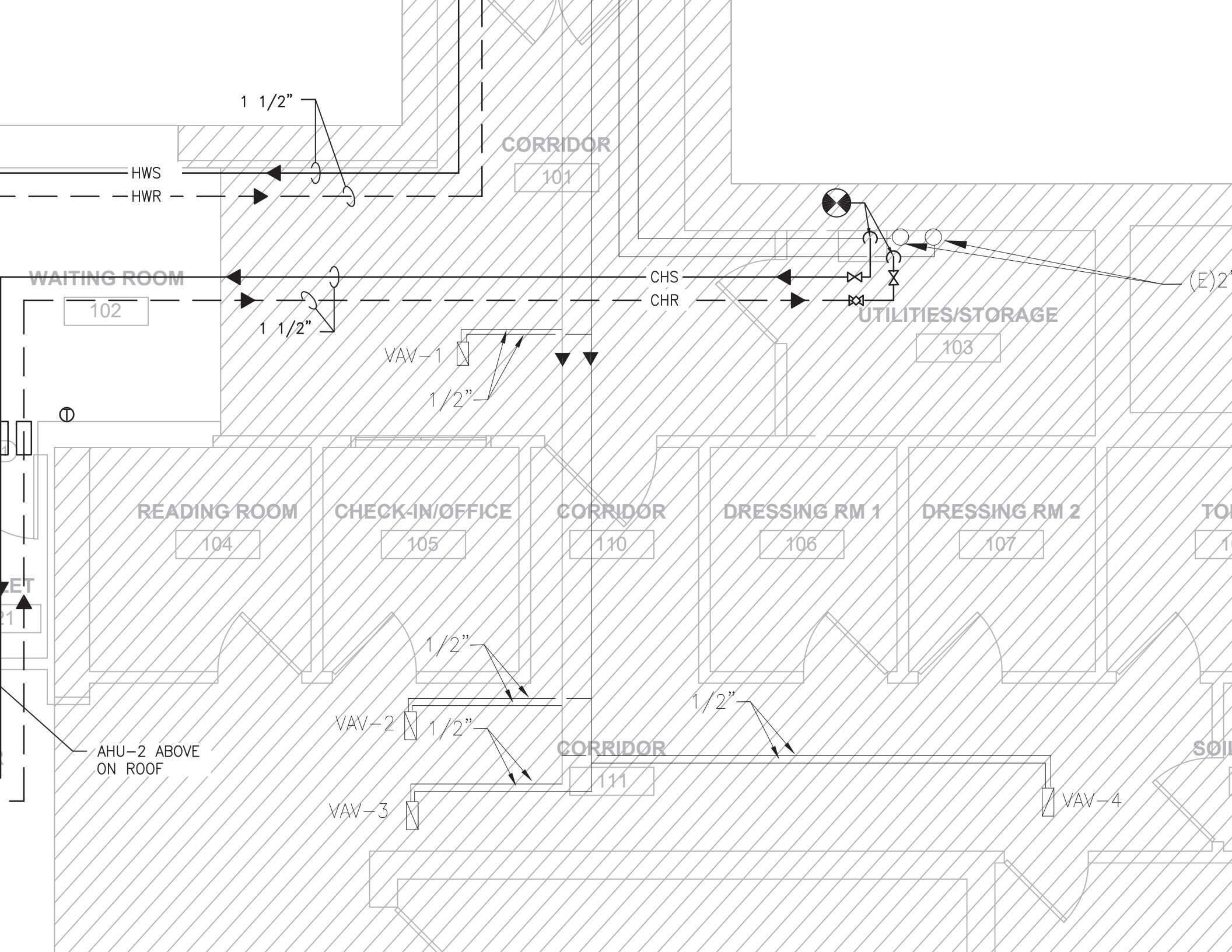
- THE CONTRACTOR SHALL KEEP ONE SET OF THE LATEST ISSUE OF DRAWINGS THAT SHALL REFLECT THE ACTUAL INSTALLED CONDITIONS AND CONNECTIONS. THE CONTRACTOR SHALL PROVIDE COPIES OF THESE DRAWINGS FOR MAINTENANCE INFORMATION AND INSTRUCTIONS RECEIVED WITH EQUIPMENT AND SYSTEMS. ALL "AS-BUILT" DRAWINGS AND MISCELLANEOUS INFORMATION SHALL BE GIVEN TO THE OWNER AND ENGINEER AT COMPLETION OF WORK. THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND LABOR TO BE FREE FROM DEFECTS FOR A ONE YEAR PERIOD FROM THE TIME OF OWNER ACCEPTANCE. ANY DEFECTS



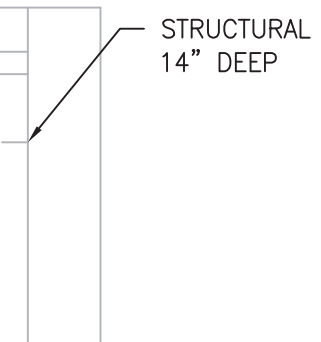
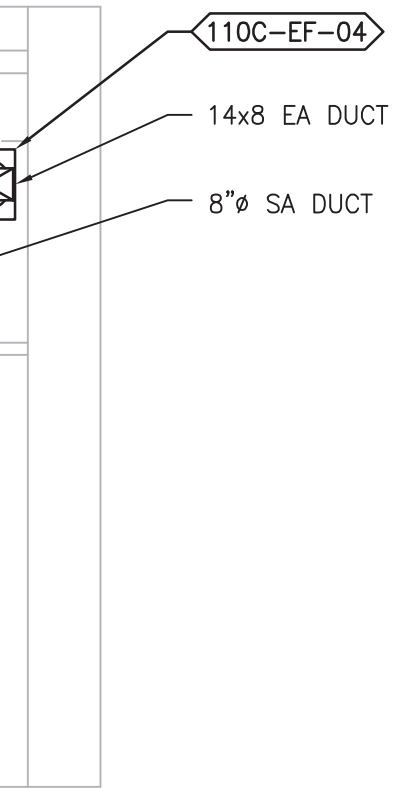
EXHAUST LOUVER  
4'x18" W/FREE AREA OF  
15 SQ FT & PRESSURE  
DROP OF .04 @ 570 CFM

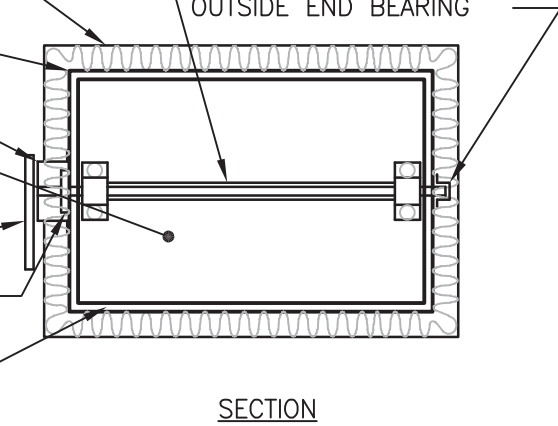






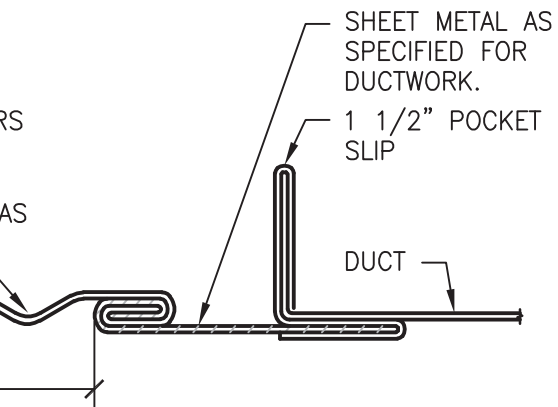
110C-EF-04



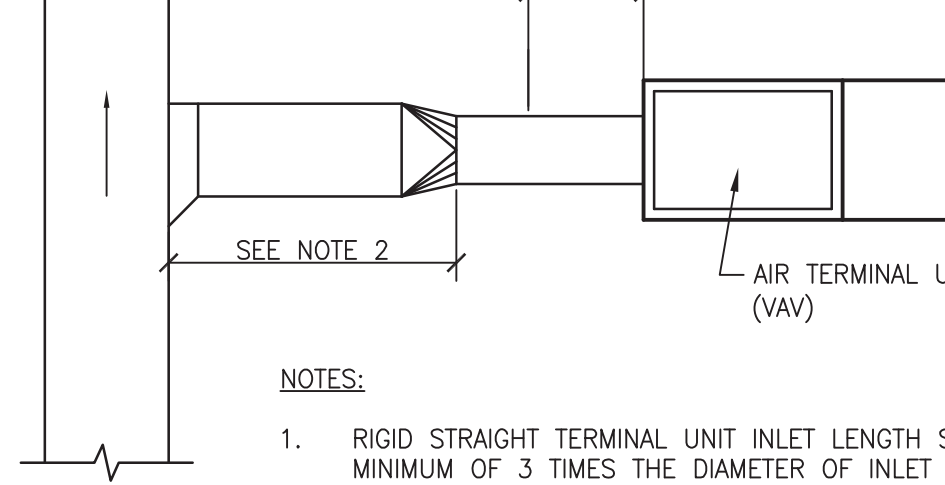


UT EXTERIOR INSULATION.

LLATION SHALL BE SIMILAR FOR



TO 3" MAX. INSTALLED. 6" WITH MATERIAL TAUT.

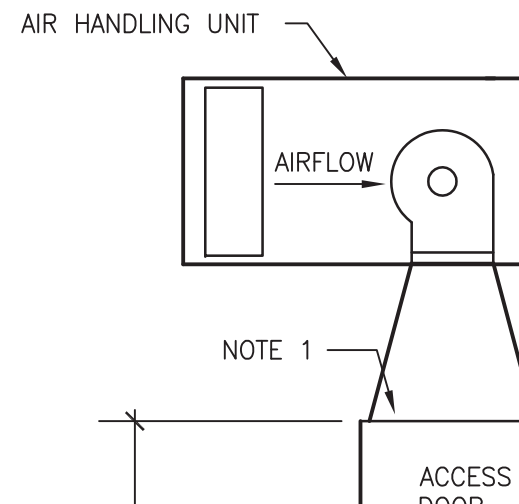


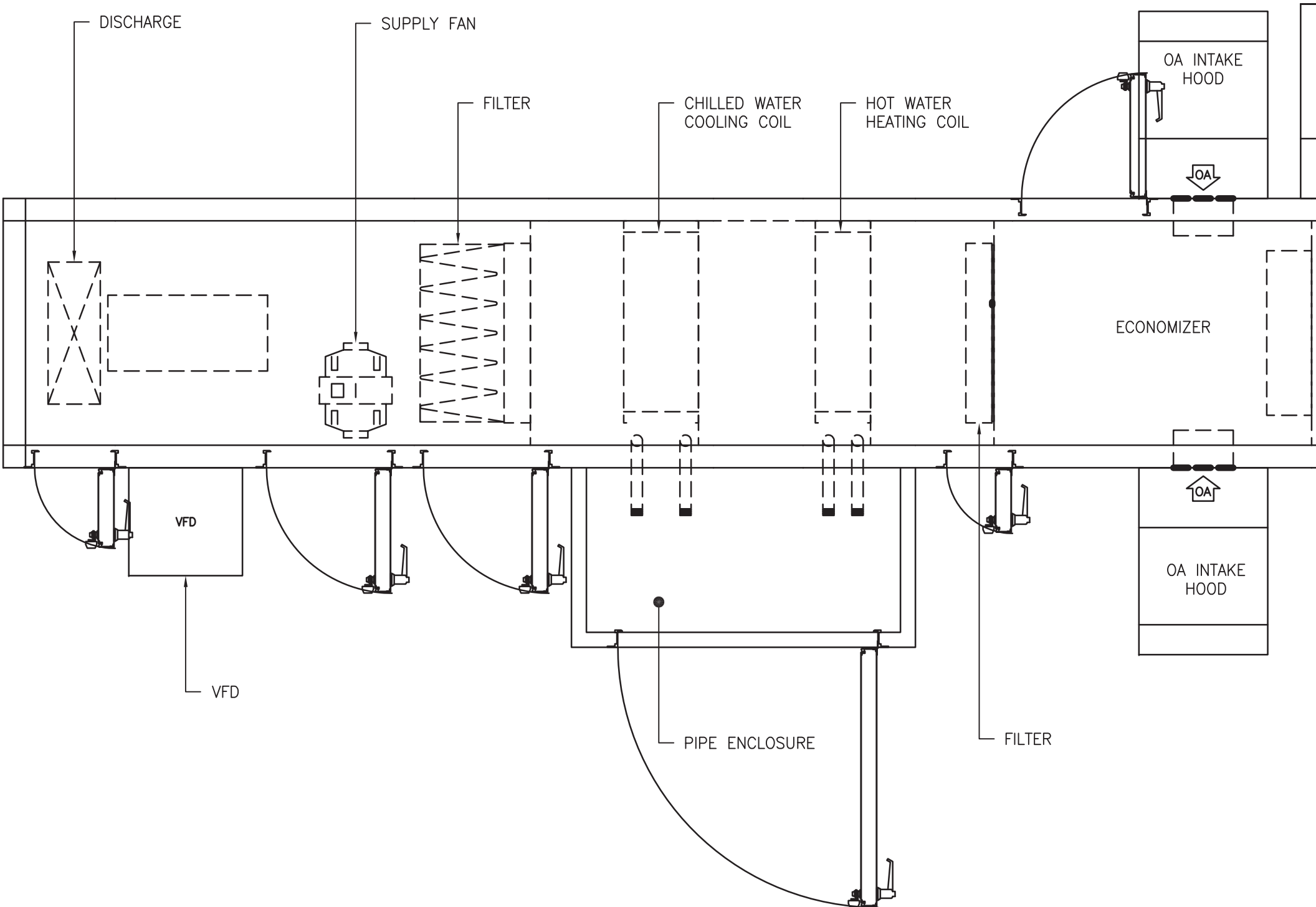
#### NOTES:

1. RIGID STRAIGHT TERMINAL UNIT INLET LENGTH SHALL BE A MINIMUM OF 3 TIMES THE DIAMETER OF INLET.
2. A BRANCH DUCT SERVING AN INDIVIDUAL BOX SHALL BE USED AS THE BOX INLET, PROVIDED THE EQUIVALENT DUCT, AS SHOWN, DOES NOT EXCEED 10 FEET. LONGER LENGTHS, INCREASE THE DUCT SIZE AND MAKE A TRANSITION TO MAINTAIN THE DUCT STATIC PRESSURE BELOW 0.2"/100'.
3. COMPONENT ARRANGEMENT MAY VARY BY MANUFACTURER. INSULATION W/VAPOR BARRIER FOR CONNECTING DUCTS.

## 7 DUCT CONNECTIONS - AIR TERMINAL

NTS





MP	TEMP	TEMP	CFM	FT	
5	180	160	0.7	3	PRICE
5	180	160	0.7	3	PRICE
5	180	160	0.4	3	PRICE
5	180	160	1.1	3	PRICE
2.9					

EG-3	EXHAUST REGISTER	0	650	0.008	CEILING	24x24	22x
<b>NOTE</b> 1. PROVIDE SQUARE TO ROUND ADAPTER FROM THE DIFFUSER TO THE DUCT. 2. COORDINATE THE INSTALLATION/FRAME TYPE WITH THE CEILING TYPE. 3. EG-3 IS FOR OVER PRESSURE RELIEF TO THE PLENUM. 4. ALL DEVICES ARE TO BE ALL ALUMINUM.							

## VALVE SCHEDULE

INSTANT HOT WATER REHEAT COIL							BASIS OF DESIGN (OR APPROVED EQUAL) - AIR VALVES	BASIS OF DESIGN (OR APPROVED EQUAL) - REHEAT COILS	REMARKS
LAT	EWT	LWT	MBH	FLOW	MAX WPD	PIPE RUNOUT SIZE TO COIL			
°F	°F	°F		GPM	FT	IN			
90	180	160	30.8	3.1	3	3/4	PHOENIX CONTROL VALVE	HEATCRAFT	SEE NOTES

BASIS OF DESIGN OR APPROVED EQUAL
PROVIDED BY YORK



FLOW CONTROLLER. SEE SEQUENCE OF OPERATION.



FLOW SWITCH



FLOW SWITCH HIGH



FLOW SWITCH LOW



FLOW TRANSMITTER



HUMIDITY CONTROL



HIGH HUMIDITY LIMIT SENSOR



PRESSURE TRANSMITTER



INSTRUMENT OR CONTROL AIR @ 20 PSIG



SUPPLY AIR VALVE



SPEED CONTROLLER  
(SEE SEQUENCE OF OPERATION)



STEAM COIL CONTROL VALVE



SMOKE DETECTOR



SMOKE DETECTOR

ED BY CURRENT TRANSDUCER CT-1 AND AN ALARM SHALL BE ANNOUNCED

WITH MANUAL RESET.  
M SMOKE DETECTION SYSTEM

ARD WIRED THROUGH THE UNIT SAFETIES TO PREVENT RUN CONDITION IN BOTH  
H-O-A SELECTOR SWITCH.

AT THE ECC WHEN ANY OF THE UNIT SAFETIES; PSH-1, PSL-1, SMOKE  
E NOT SATISFIED. THE DAMPER END SWITCH ALARMS SHALL BE  
START TO ALLOW DAMPERS TO OPEN.

SAFETY CONDITION OR NORMAL OPERATOR INITIATED SHALL FIRST CALL FOR  
ANS. AFTER 15 SECONDS THE CONTROLLED DEVICES SHALL ASSUME THEIR  
SHALL REMAIN ACTIVE TO KEEP THE INTERNAL UNIT TEMPERATURE A

DISCHARGE HUMIDITY RISES ABOVE 80 PERCENT, THE HUMIDIFIER SHALL BE  
D AT THE ECC.  
ST SHALL BE ANNUNCIATED AT THE ECC.

PERATIONAL IN OCCUPIED MODE.

OPIED SETPOINT                      UNOCCUPIED SETPOINT

SYSTEM COMPONENT	Point ID
HOA On/Off (GLOBAL FOR UNIT)	HS
Return Air Temperature	TT-1
Return Air Humidity	MT-1
Outside Air Temperature	TT-2
Outside Air Humidity	MT-2
Mixed Air Temperature	TT-3
Preheat Coil Leaving Temperature	TT-4
Freezstat	TSL-1
Cooling Coil Leaving Temperature	TT-5
Supply Air Temperature	TT-6
Supply Air Humidity	MT-3
Supply Static Pressure	SPT-1
Supply Fan On/Off	SST-3
Supply Air Flow	FT-3

T AIR CIRCUIT BREAKER

RUN. HALF-ARROWS INDICATE NUMBER  
ARATE GREEN GROUNDING CONDUCTOR  
OR EACH HOMERUN; NOT SHOWN

ANEL

FLUSH MOUNTED

SURFACE MOUNTED

USED

INFUSED

WITH DISCONNECT SWITCH

ONTROLLER

EAKER

DRIVE

C = 120V, 30A, 1 PHASE, 2-POLE, 3W, NEMA 6-30R.  
D = 208V, 30A, 1 PHASE, 2-POLE, 3W, NEMA 6-30R.  
E = 208V, 60A, 1 PHASE, 3-POLE, 4W, NEMA 14-60R.  
F = 208V, 30A, 3 PHASE, 3-POLE, 4W, NEMA 15-30R.  
G = 208V, 50A, 3 PHASE, 3 POLE, 4W, NEMA 15-30R.  
H = 208V, 60A, 3 PHASE, 3 POLE, 4W, NEMA 15-60R.



ELECTRICAL STRIP MOLD (OUTLETS ON 2'-0" CENTERS OR  
AS DESIGNATED ON DRAWINGS), MTD 3'-6" AFF OR AS  
INDICATED.



EMERGENCY POWER OFF



PUSH BUTTON



KEY NOTE SYMBOL



MULTIPLE KEY NOTES APPLYING TO THE SAME ITEM



DETAIL IDENTIFIER  
DETAIL #  
DRAWING # (WHERE DETAIL IS FOUND)



OR ----- INDICATES EQUIPMENT TO BE DEMOLISHED

## SECURITY SYMBOLS



CARD ACCESS READER; LETTER INDICATES AS FOLLOWS:

M=MOUNT

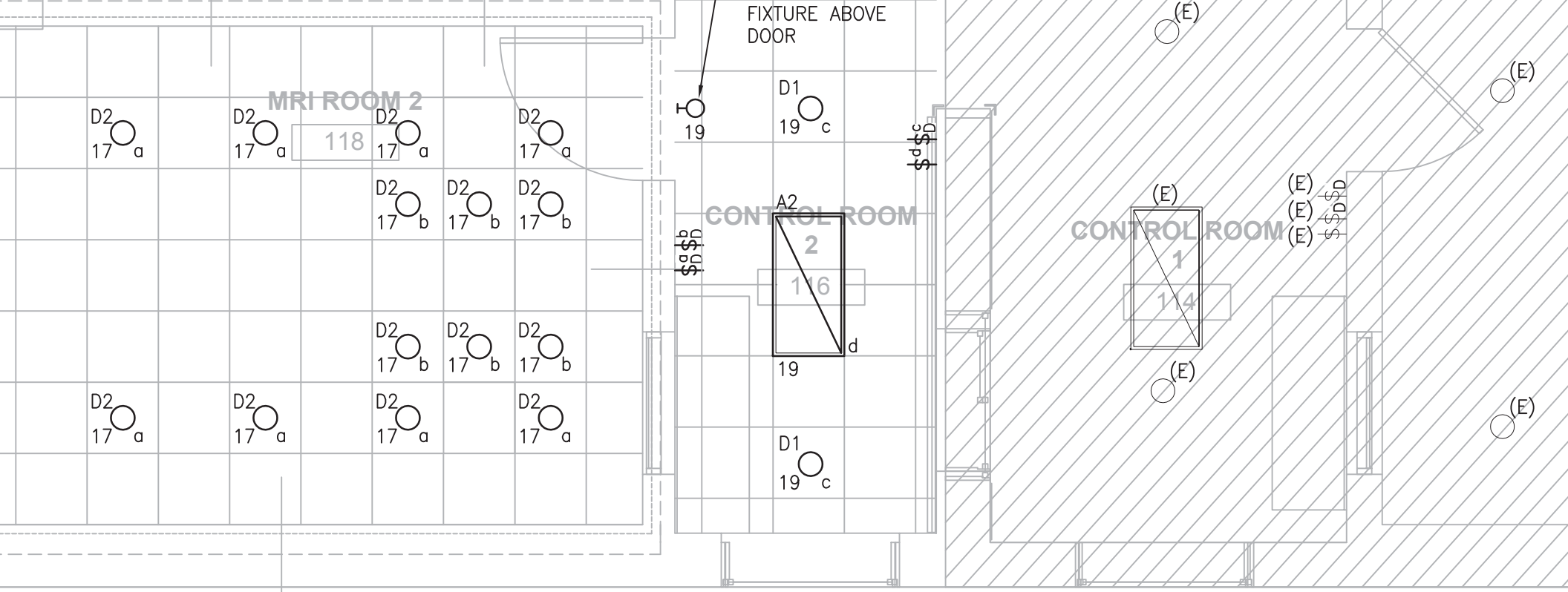
C-CEILING D-DESK F-FLUSH H-HIDDEN M-MULLION  
P-PEDESTAL R-RACK S-SURFACE W-WALL

T=TECHNOLOGY/TYPE

B-BARCODE F-ELEVATOR FLOOR CALL H-ELEVATOR HALL CALL  
M-MAG STRIP P-PROXIMITY S-SMART CARD  
T-TOKEN



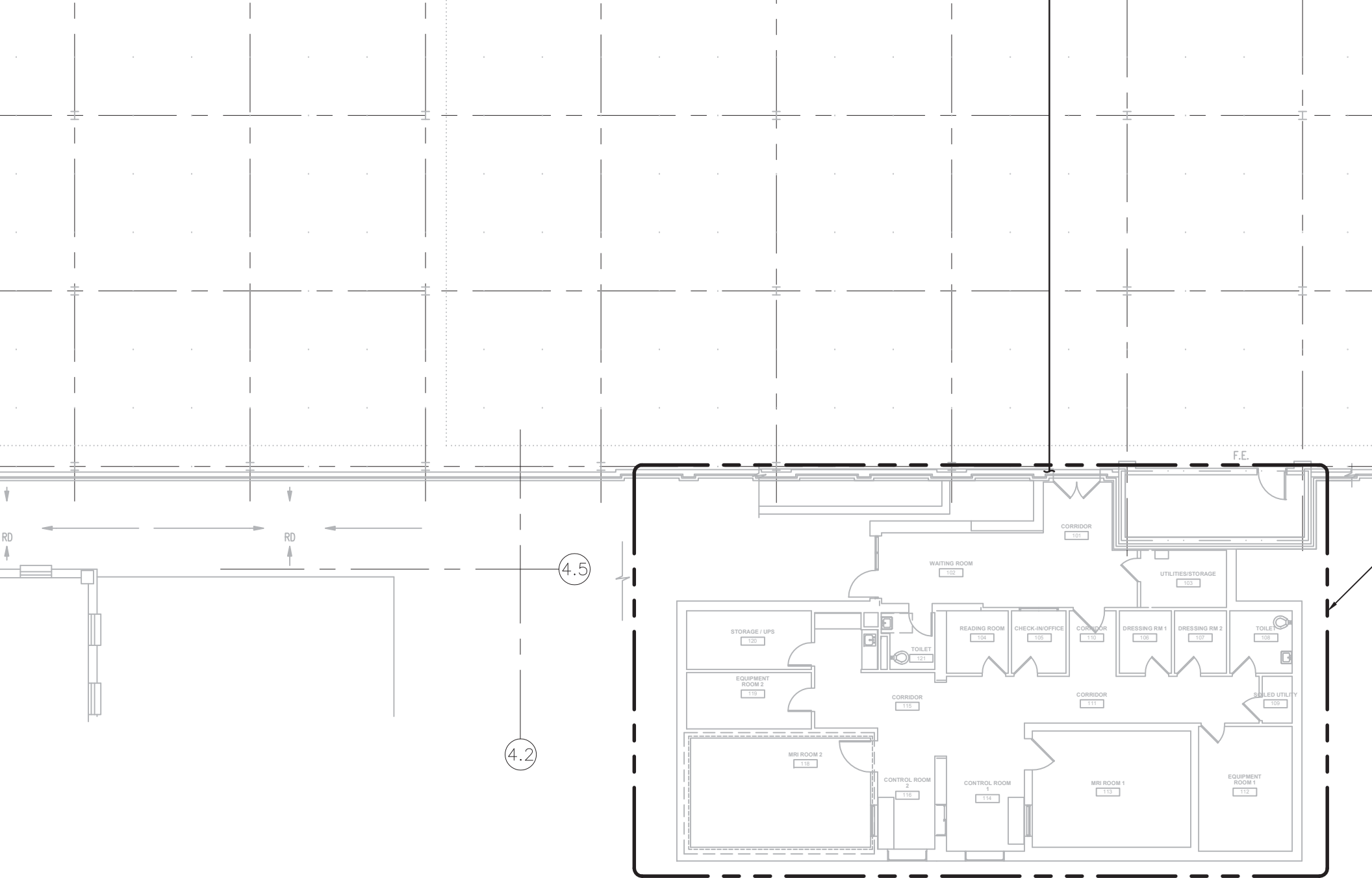
OF THE  
RELOCATION  
PROJECT  
ON AND



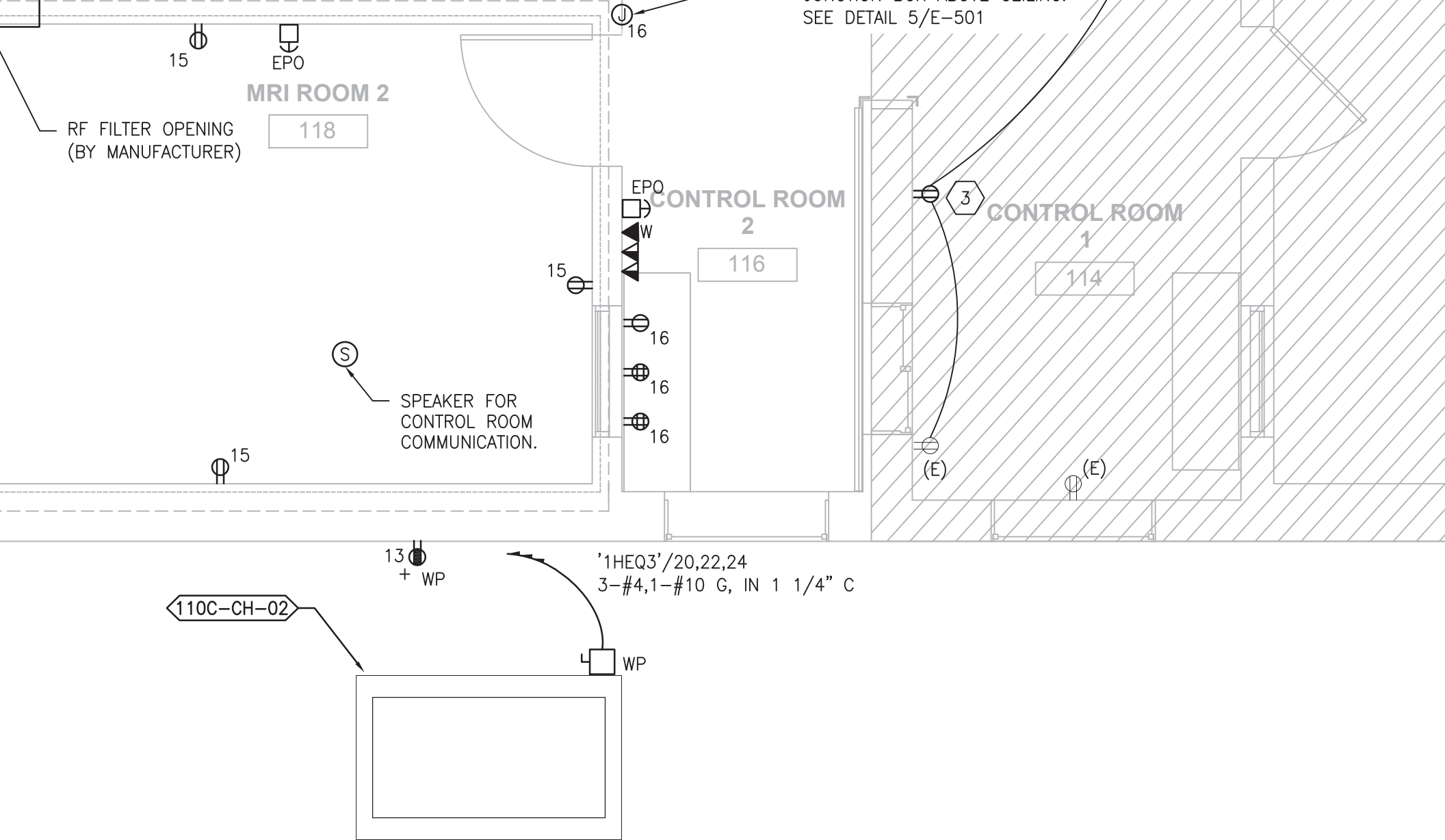
2 LIGHTING PLAN – 1ST FLOOR  
SCALE: 1/4" = 1'-0"

## LIGHTING FIXTURE SCHEDULE

DESCRIPTION	LAMPS		BALLAST	VOLTS	MOUNTING	REMARKS
	WATTAGE	TYPE	QTY			

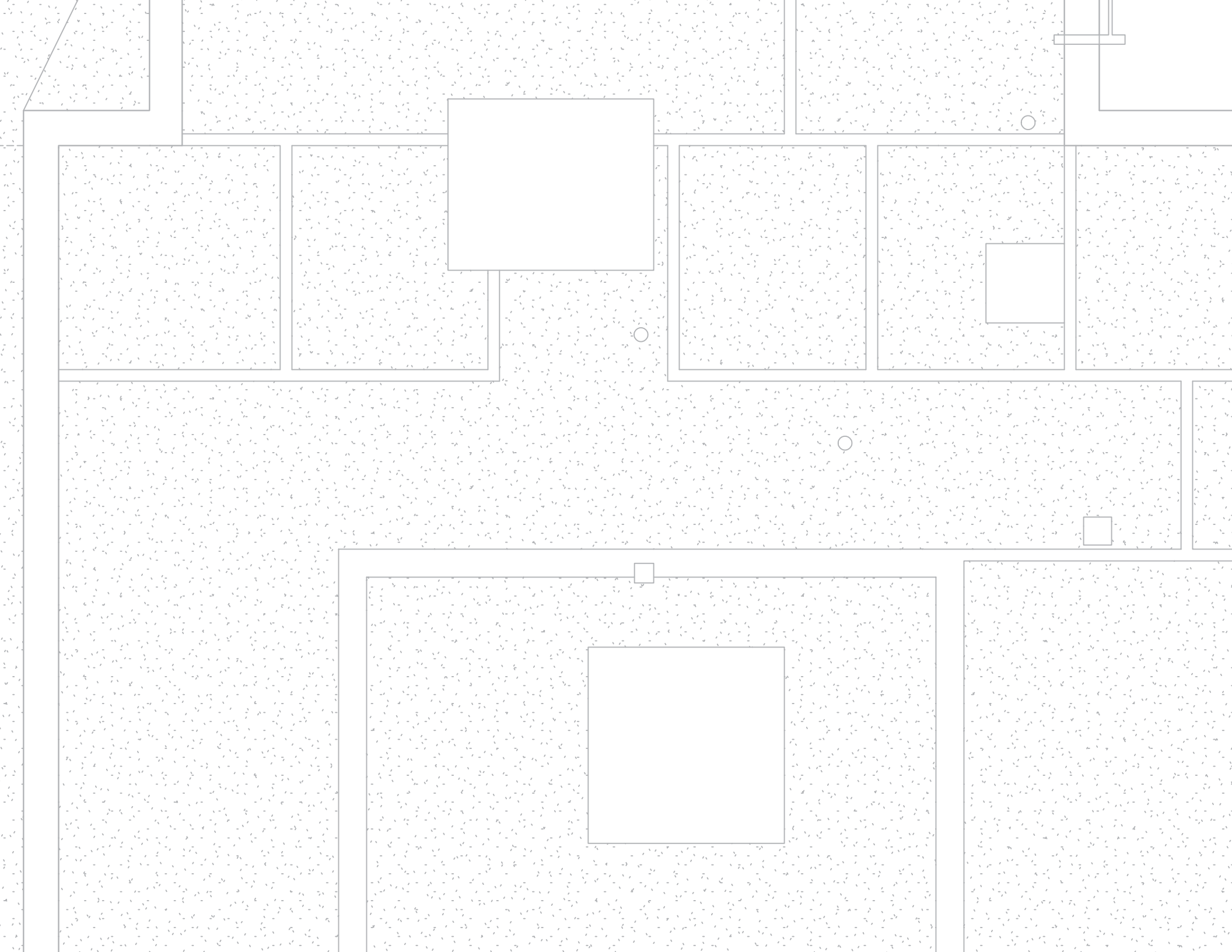


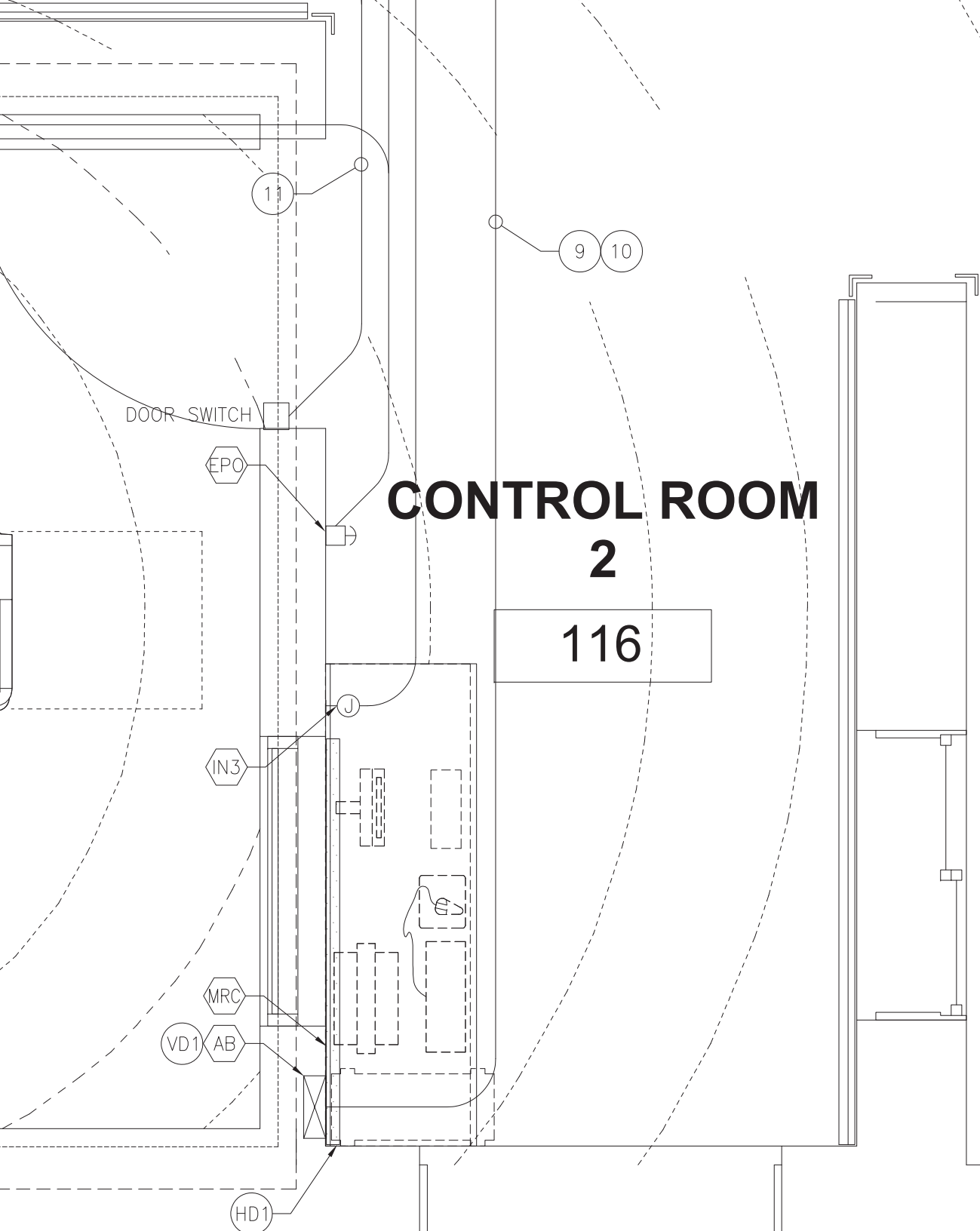
1 POWER PLAN — INTERSTITIAL SPACE



## 2 POWER PLAN – 1ST FLOOR (NEW)

SCALE: 1/4" = 1'-0"

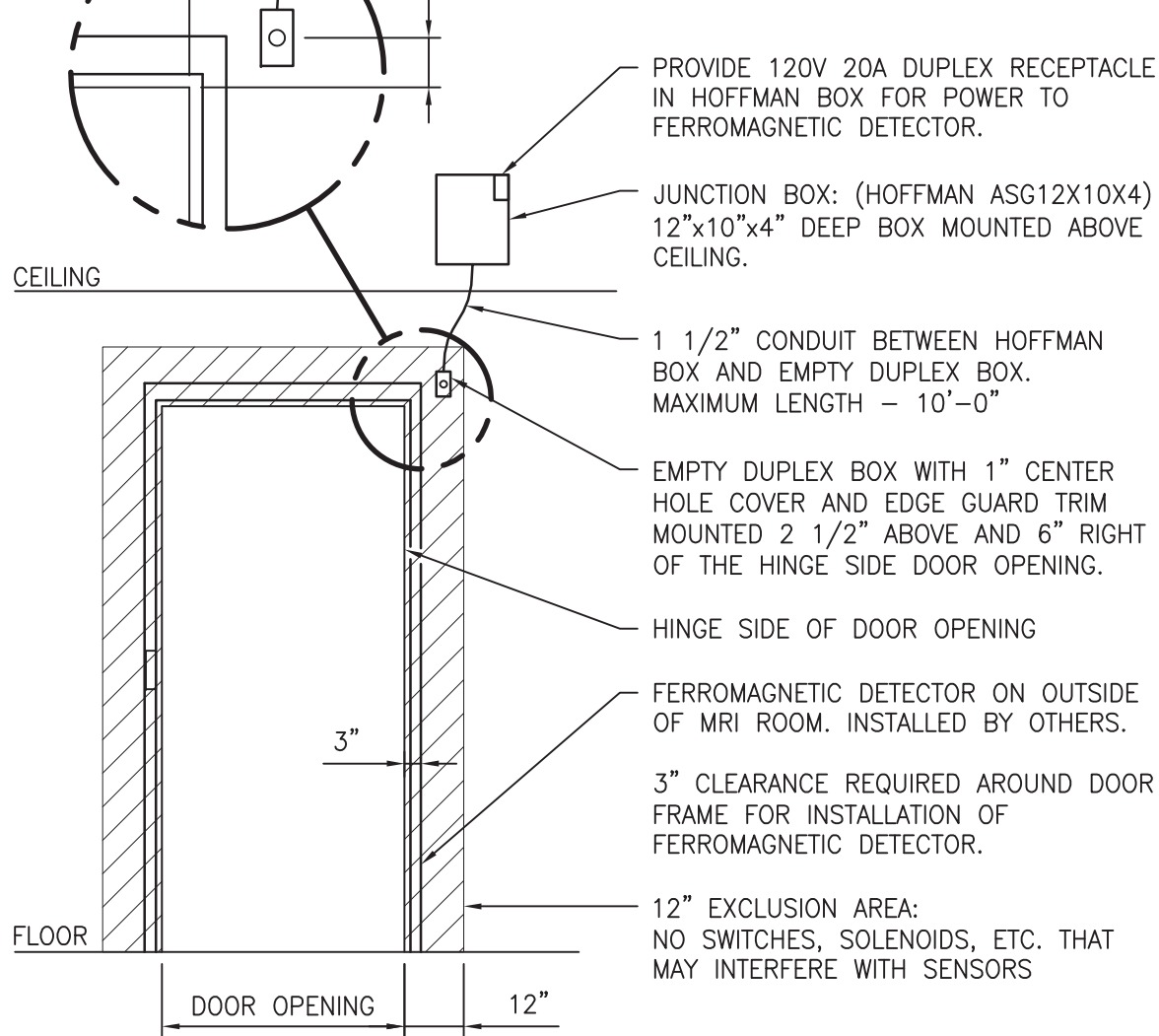




# CONTROL ROOM 2

116

		PANEL.
(HD1)	4" x 2"	HORIZONTAL DUCT TO MATCH WALL
(VD1)	10" x 3-1/2"	VERTICAL DUCT TO FLOOR LINE
(3)	(1) 3/4"ø	CONDUIT FROM PROVIDE RF FILT
(4)	(1) 2"ø	CONDUIT FROM BETWEEN THE C
(5)	(1) 2"ø	CONDUIT FROM
(6)	(1) 3/4"ø	CONDUIT FROM
(7)	(1) 3/4"ø	SURFACE MOUNT
(8)	(1) 1"ø	CONDUIT FROM
(9)	(2) 2 1/2"ø	CONDUIT FROM
(10)	(1) 1 1/2"ø	CONDUIT FROM
(11)	(1) 1/2"ø	CONDUIT FROM
(12)	(1) 3/4"ø	CONDUIT FROM
(13)	(1) 2"ø	CONDUIT FROM
(14)	(2) 2"ø	NON-FERROUS C
(15)	(2) 2"ø	CONDUITS FROM
(16)	(1) 1"ø	CONDUIT FROM
(17)	(1) 1"ø	NON-FERROUS C



## MRI SCAN ROOM DOOR

### FERROMAGNETIC DETECTOR DETAIL

5

SCALE: NTS  
(VIEWED FROM OUTSIDE MRI ROOM)

1

ELECTRICAL SINGLE LINE DIAGRAM

SCALE: NTS

3 Phase, 4 Wire

Existing Panel

Main Lugs Only: No Main Breaker: 100  
Panel A.I.C. Rating: Existing

	Breaker		Load		Phase			Load		Breaker		Description	# Ckt	ID
	P	Trip	Code	VA	A	B	C	VA	Code	Trip	P			
	3	100							EX	20	1	EXISTING BREAKER ON	2	EX
									EX	20	1	EXISTING BREAKER ON	4	EX
									EX	20	1	EXISTING BREAKER ON	6	EX
	1	20	EX						EX	20	1	EXISTING BREAKER ON	8	EX
	1	20	EX						EX	20	1	EXISTING BREAKER ON	10	EX
	1	20	EX						EX	20	1	EXISTING BREAKER ON	12	EX
	1	20	EX										14	
	1	20	EX						EX	15	3	EXISTING BREAKER OFF (SPARE)	16	EX
													18	
	3	50	EX						EX	20	2	EXISTING BREAKER ON	20	EX
									EX	20	1	EXISTING BREAKER OFF (SPARE)	24	EX
	1	20	EX						EX	20	1	EXISTING BREAKER ON	26	EX
	1	20	EX						EX	20	2	EXISTING BREAKER ON	28	EX
													30	

Total Connected Load (VA/PHASE)

PRIMARY		ELECTRICAL DATA	
Demand Factor	NEC Sizing Load (VA)	Total Conn. Load: KVA	
		Total Conn. Load: Amps	
		NEC Sizing Load: KVA	
		NEC Sizing Load: Amps	
		Main Bus Size: 100 Amps	
1.00		PANEL LEGEND (ID)	
1.00			
1.00			
1.00			
1.00			
1.00			
1.00			
1.00			
1.00			
1.00			
		VA	

PANEL INFORMATION	
Location: Room 103	
Mounting: Surface	Enclosure Type: Nema 1
Fed From: Transformer 110C GB130A	
Equipment Ground Bus: Yes	Bus Material: Copper
Isolated Ground Bus: No	Neutral Size: 100%
PANEL NOTES	
Existing panel schedule on door of panel does not reflect breaker numbering.	

Panel Name: 1LEQ5  
Panel Voltage: 208Y/120V, 3

ID	#	Description
EX		MAIN
EX	1	EXISTING
EX	3	
EX	5	EXISTING
*	7	RM 121 AUTO FLUSH AND LAVATORY
*	9	110C-P-1
N	11	REC - 102, 121, 115
N	13	REC - 119 & EXTERIOR
N	15	REC - 118
N	17	LTS - 118
N	19	LTS - 116, 115, 119, 120, & 121
N	21	110C-EF-3
N	23	110C-EF-4

N.E.C. LOAD SUMMARY		
Load Types and Codes	Total Load (VA)	Demand Factor
Air Conditioning (AC)	4064	1.00
Heating (H)		1.00
Kitchen Equipment (K)		1.00
Lighting (L)	940	1.00
Receptacles (REC)	3600	1.00
Existing (E)		1.00
Continuous (C)		1.00
Non-Continuous (NC)	3600	1.00
Refrigeration (REF)		1.00
Rec. Load Totals:	12204	