

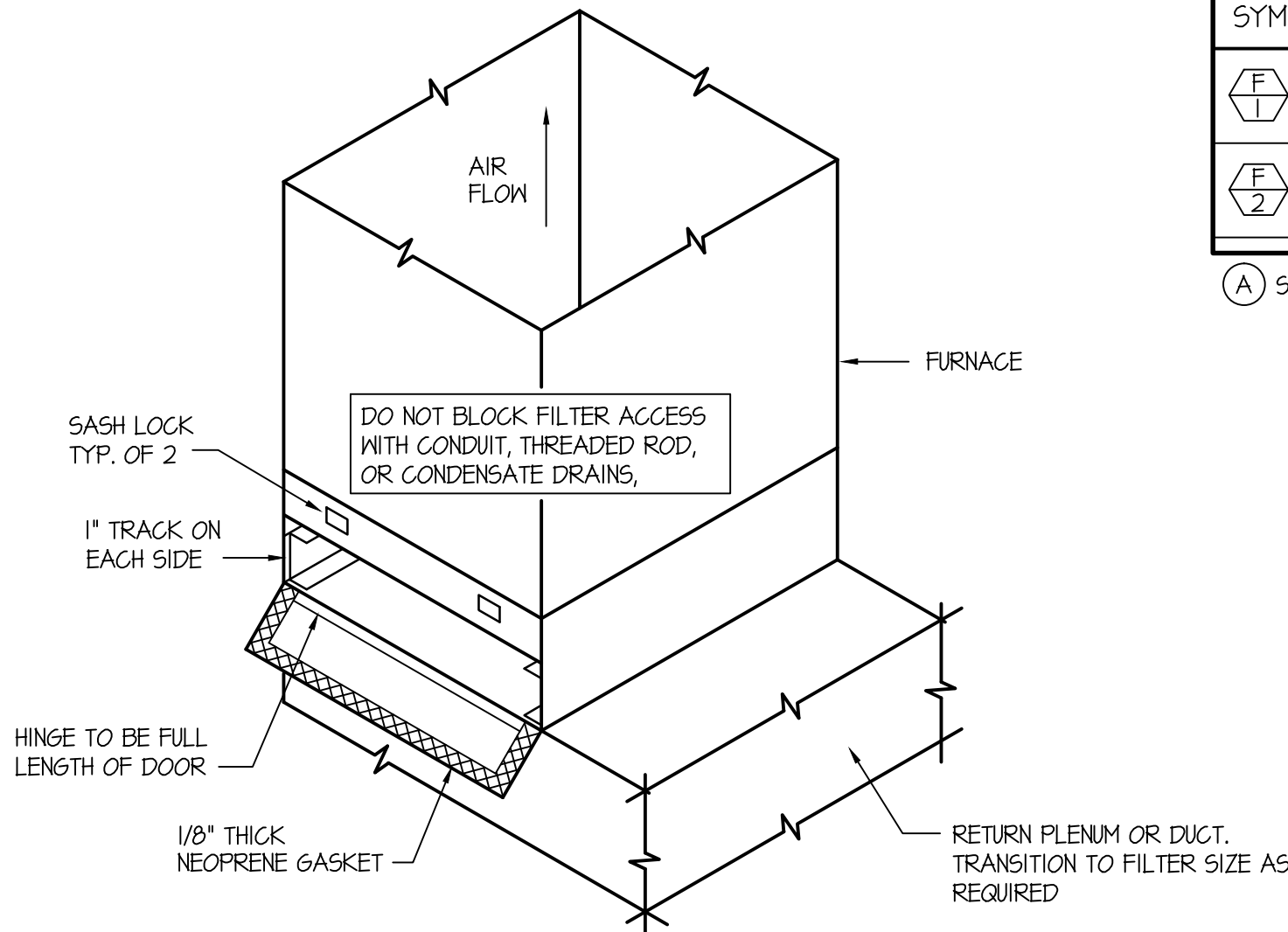


FURNACE AND DX COOLING COIL SCHEDULE																								
SYM.	TYPE	C.F.M.	SP _E	SPEED	H.P.	CHAR.	A.G.A.			E.A.T.	L.A.T.	GAS TYPE	DX COOLING COIL				PIPING SIZES					REMARKS	(A)	
							INPUT	OUTPUT	Ø ELEV.				B.T.U.	E.A.T.	L.A.T.	MAX. P.D.	LIQUID	SUCTION	C.D.	NAT GAS	INTAKE			EXHAUST
	UPFLOW	1250	.60"	MEDIUM	1/3	120/60/1	88,000	82,000	60,000	65°F	105°F	NAT	EXISTING 42,000	75°F	55°F	.25"	EXIST.	EXIST.	3/4"	3/4"	2" PVC	2" PVC	3-1/2 TON UPFLOW FURNACE WITH VERTICAL VENT TERMINAL ASSEMBLY. CONNECT TO EXISTING DX COIL	
	UPFLOW	1600	.60"	M-HIGH	3/4	120/60/1	110,000	103,000	79,000	65°F	105°F	NAT	EXISTING 48,000	75°F	55°F	.25"	EXIST.	EXIST.	3/4"	3/4"	2" PVC	2" PVC	4 TON UPFLOW FURNACE AND VERTICAL VENT TERMINAL ASSEMBLY. CONNECT TO EXISTING DX COOLING COIL	

(A) SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.

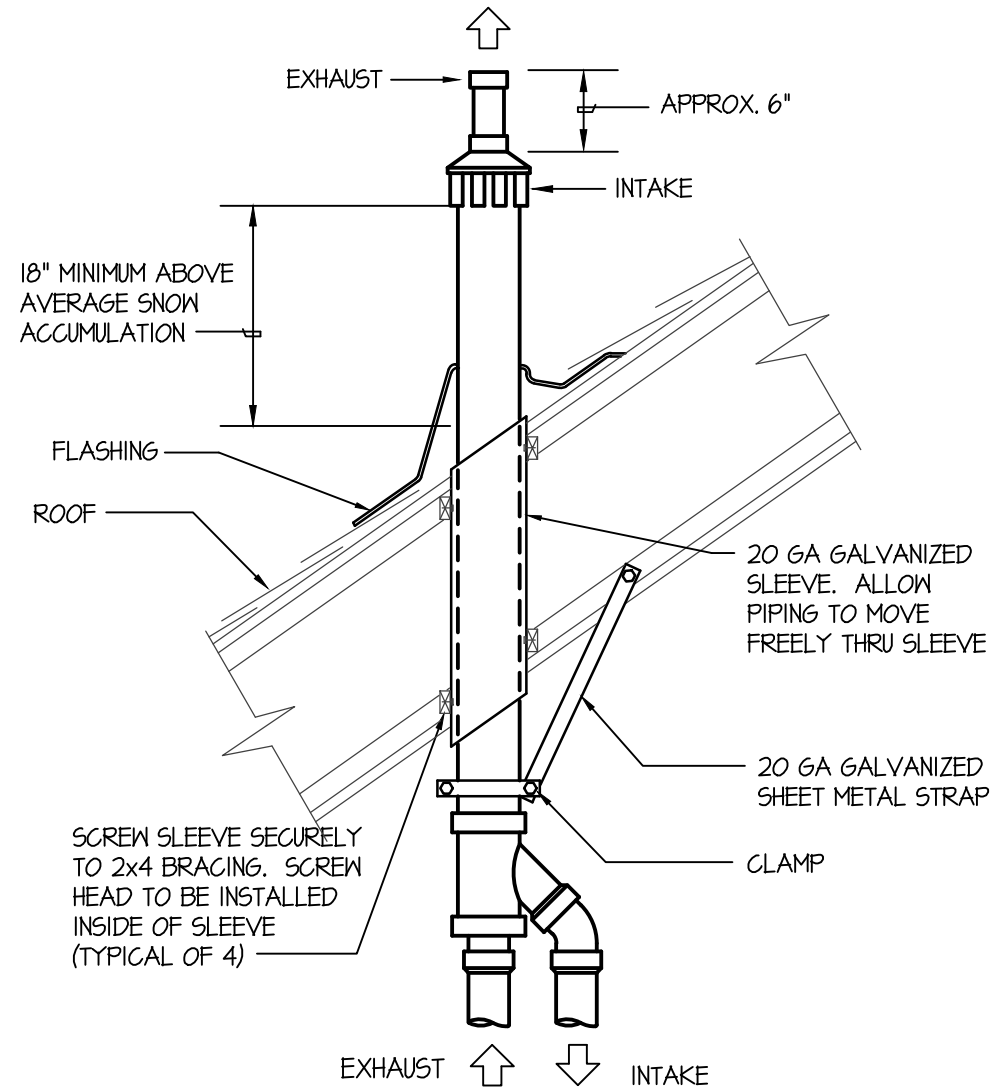
GRILLE AND REGISTER SCHEDULE						
SYM.	SIZE	RANGE	THROW	CONSTR.	FINISH	REMARKS (A)
(EX CFM)	EXIST.	SEE PLAN	EXIST.	EXIST.	EXIST.	EXISTING DIFFUSER BALANCE TO CFM SHOWN
(D-1 CFM)	12x12	285-400	3-WAY	STEEL	OFF WHITE	CEILING DIFFUSER

(A) SEE SPECIFICATIONS FOR OTHER APPROVED MANUFACTURERS.



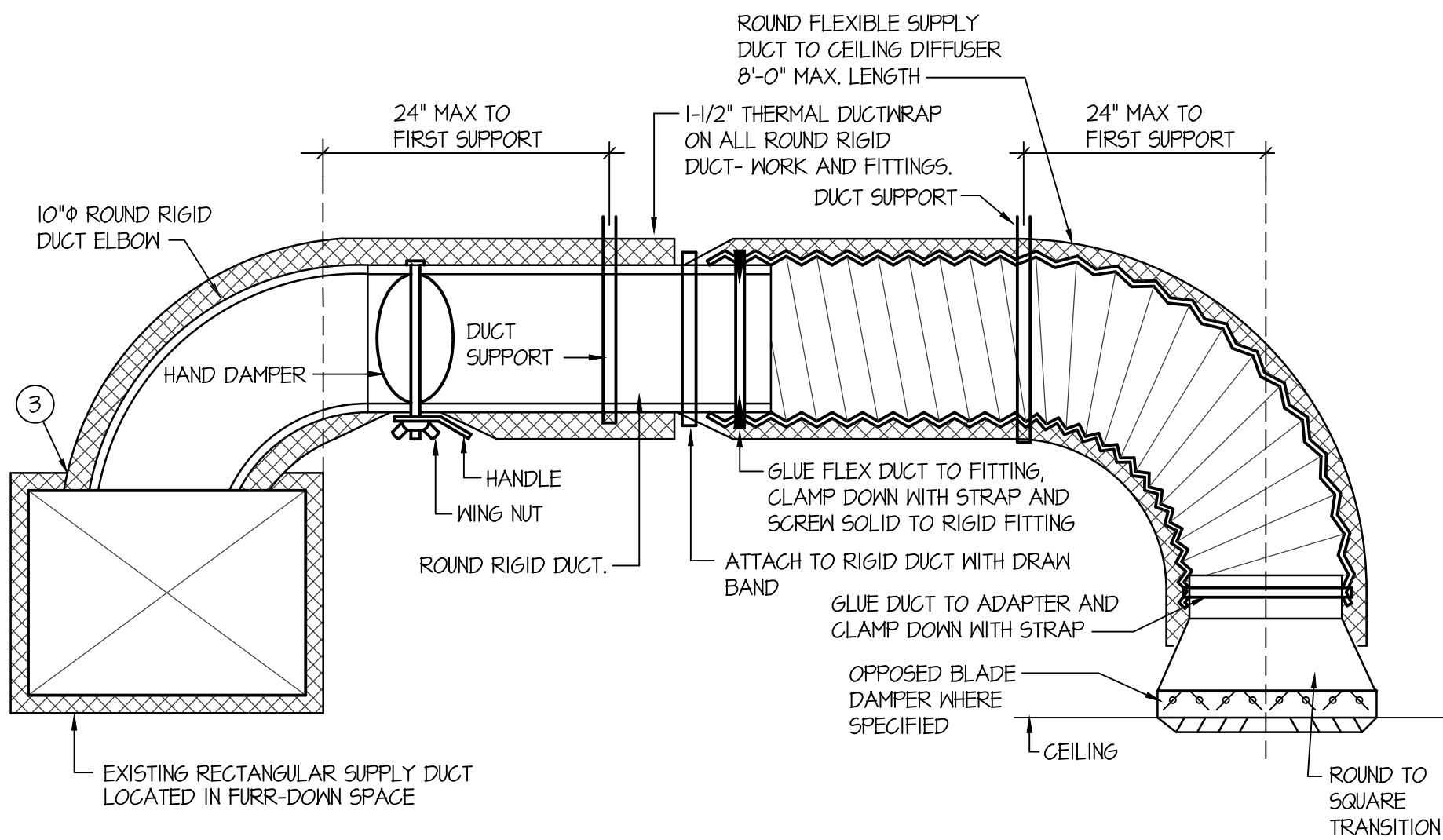
EXTERNAL FILTER SECTION DETAIL

NO SCALE UP-FLOW CONFIGURATION



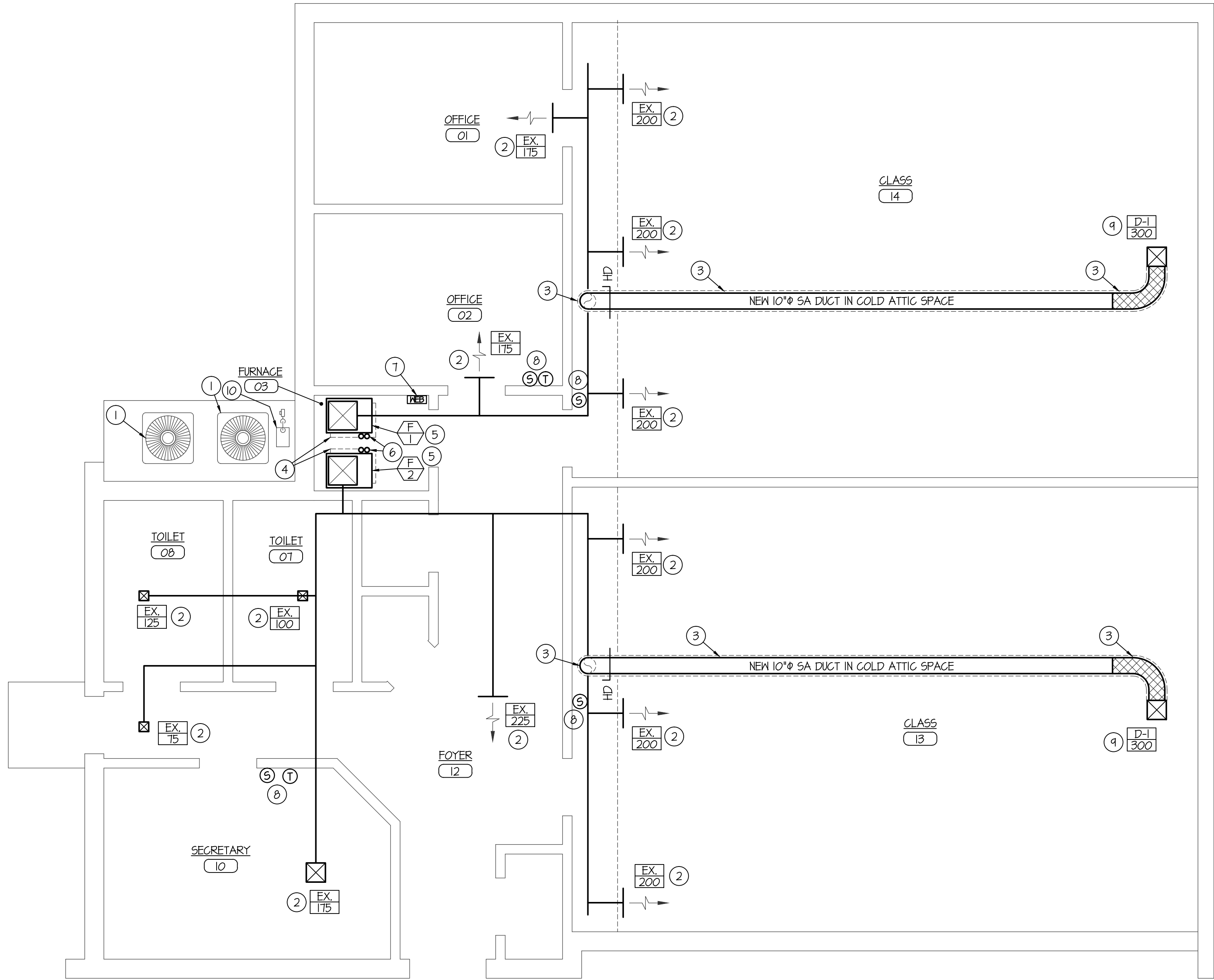
CONCENTRIC VENT TERMINATION DETAIL

NO SCALE



CEILING DIFFUSER DETAIL WITH FLEXIBLE DUCT

NO SCALE



MECHANICAL / ELEC. FLOOR PLAN

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



PLAN NOTES:

- EXISTING CONDENSING UNIT AND ALL ASSOCIATED REFR. PIPING AND COVERS TO REMAIN.
- EXISTING SUPPLY GRILLE / DIFFUSER TO REMAIN. RE-BALANCE TO CFM SHOWN.
- CONNECT NEW 10" Ø SA DUCT TO EXISTING SUPPLY AIR DUCT LOCATED IN FURR-DOWN. RISE NEW DUCT UP INTO COLD ATTIC SPACE AND RUN ABOVE CEILING TO SERVE NEW CEILING DIFFUSER AS SHOWN. ALL DUCT LOCATED IN COLD ATTIC TO BE INSULATED WITH 1-1/2" THICK THERMAL DUCTWRAP.
- REMOVE EXISTING GAS FURNACE AND FLIES TO CONCENTRIC. EXISTING DX COOLING COIL, GAS PIPING, REFRIGERANT PIPING AND CONDENSATE DRAIN PIPING TO REMAIN. DISCONNECT POWER AS REQUIRED.
- INSTALL NEW GAS FURNACE WHERE EXISTING WAS REMOVED. RECONNECT TO EXISTING POWER, DUCTWORK, GAS PIPING, DX COIL, CONDENSATE DRAIN PIPING AND CONTROLS. INSTALL TRANSITIONS AS REQUIRED FOR NEW FURNACE INSTALLATION.
- RISE (2) NEW 2" Ø FLIES UP AND CONNECT TO EXISTING CONCENTRIC FLUE ASSEMBLY ON ROOF.
- EXISTING WEBSTAT TO REMAIN. PROTECT DURING DEMOLITION AND NEW INSTALLATION OF FURNACE SYSTEMS.
- EXISTING SENSOR / T-STAT ON WALL TO REMAIN.
- COORDINATE LOCATION OF NEW CEILING DIFFUSER WITH EXISTING LIGHTS, CEILING FAN, AND CENTER IN CEILING TILE.
- EXISTING GAS METER TO REMAIN.

GENERAL NOTES:

- THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONNECTIONS ON THE JOB SITE. ALL WORK SHALL BE EXECUTED FROM MEASUREMENTS TAKEN AT THE SITE.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO INSURE PROPER CODE CLEARANCES FOR ELECTRICAL AND MECHANICAL ACCESS WHEN INSTALLING ANY EQUIPMENT SUPPLIED BY THE MECHANICAL CONTRACTOR.
- IT IS CRITICAL THAT THIS CONTRACTOR COORDINATE EQUIPMENT LOCATIONS WITH PIPING, DUCTWORK, ELECTRICAL CONDUIT AND BUILDING STRUCTURE TO INSURE CODE COMPLIANCE.
- CEILING DIFFUSERS ARE SHOWN IN APPROXIMATE LOCATIONS. REFER TO LIGHTING PLANS AND REFLECTED CEILING PLAN FOR EXACT LOCATIONS.
- DUCT DIMENSIONS CALLED OUT ON DRAWINGS ARE INSIDE FREE AREA DIMENSIONS. ACOUSTICAL DUCT LINER ARE TO BE ADDED TO OVERALL MEASUREMENTS.
- ALL DUCTWORK AND PIPING WHICH PASSES THRU FIRE RATED WALLS TO BE FIRE STOPPED WITH APPROVED FOAM OR SEALANT. REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURERS.

ORIGINAL DRAWING SIGNED BY: DWAYNE C. SUDWEKS
DATE ORIGINAL SIGNED: Feb 25, 2015
ORIGINAL ON FILE AT ENGINEERED SYSTEMS ASSOCIATES
1355 EAST CENTER, POCATELLO, IDAHO 83201



Engineered Systems Associates
Mechanical Engineers

Dwayne Sudweeks - Ron Rice
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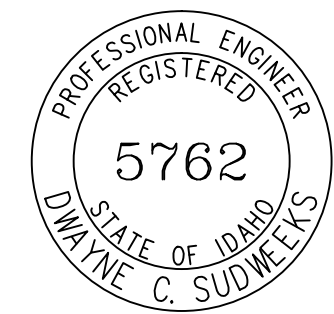
HVAC REPLACEMENT FOR: PROPERTY # 504 1584

LDS DECLO SEMINARY BUILDING
DECLO, IDAHO

PROJECT:

MECHANICAL / ELEC. FLOOR PLAN

SHEET TITLE:



DRWN. BY:	OKD. BY:
SR	DCS
JOB NO.	DATE:
15016	FEB 2015

SHEET:

ME-1

OF: ONE