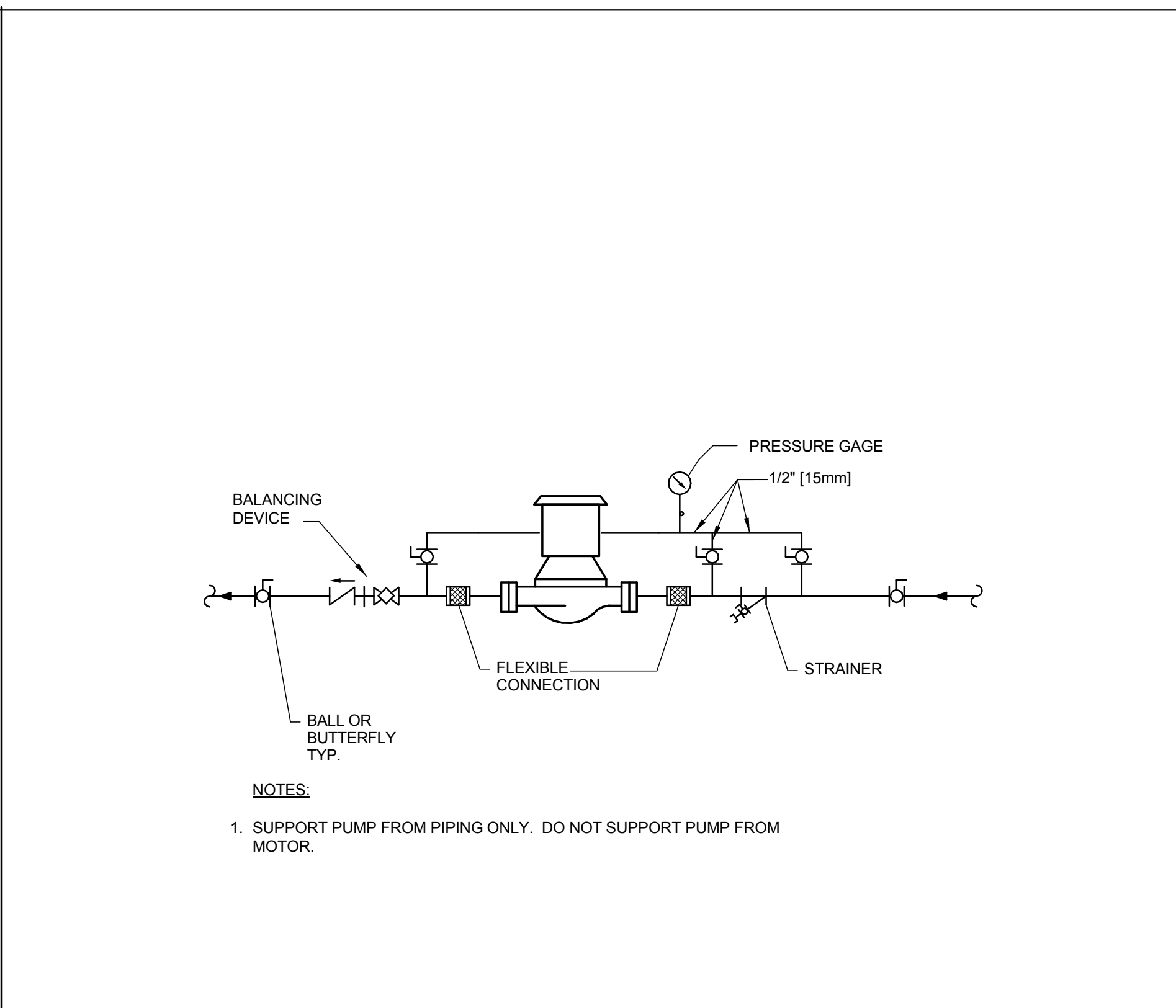
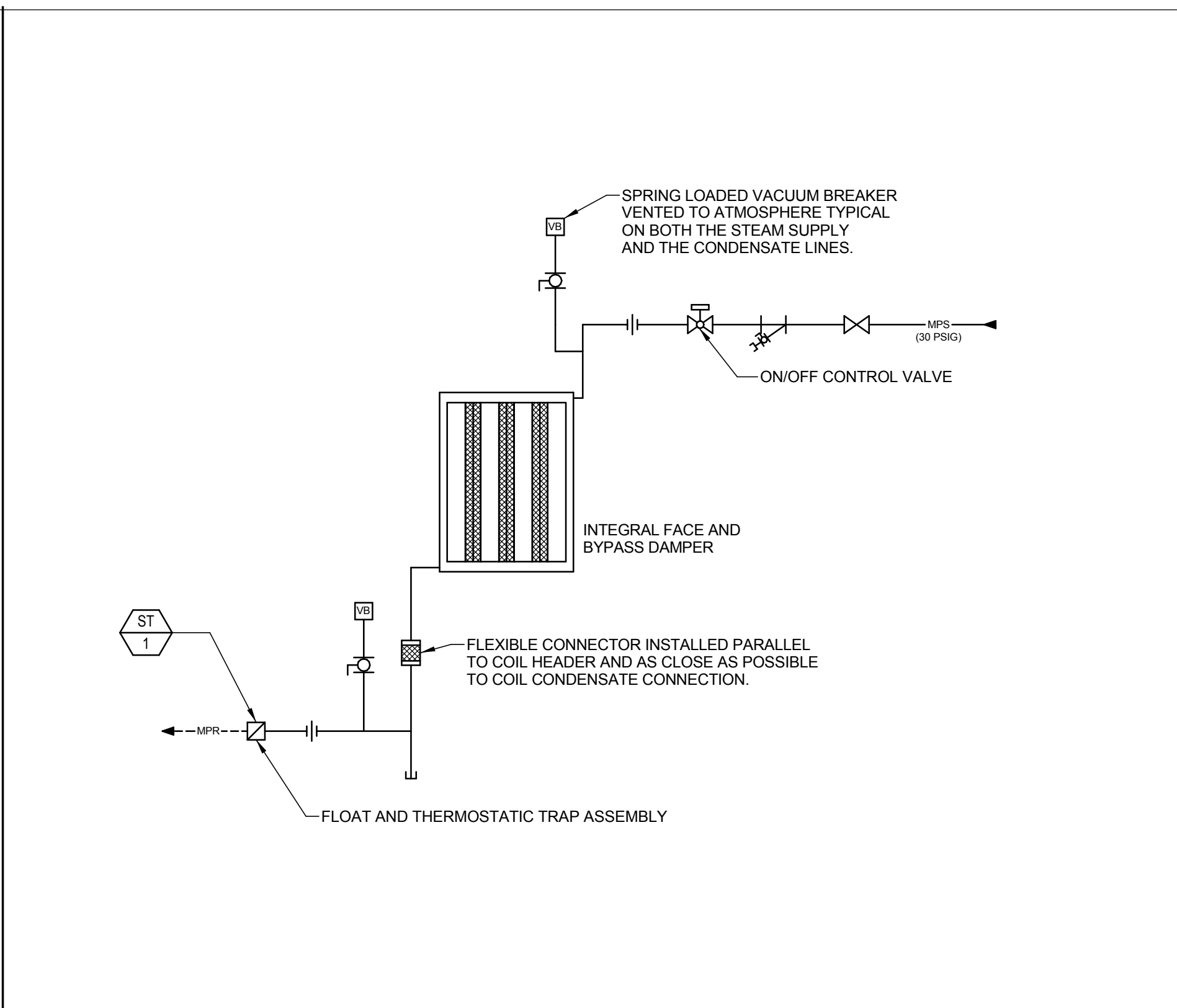







PIPE SEISMIC SUPPORT DETAIL



IN-LINE PUMPS - CONNECTIONS



INTEGRAL FACE AND BYPASS STEAM COIL DETAIL

HEPA FILTER SIZING													
FILTER IN SECTION VIEW	AIRFLOW RANGE		NOMINAL HEPA SIZE		NO. REQ.	APPROXIMATE OVERALL HOUSING SIZE		NET MAX FACE VELOCITY		AIR SIDE PRESSURE DROP			
	CFM	(L/S)	(InXInXIn)	(mmxmmxmm)		(InXInXIn)	(mmxmmxmm)	FPM	(M/S)	IN WG	[Pa]	IN WG	[Pa]
	0-230	0-109	12x12x12	305x305x305	1	15x15x21	380x380x530	250	2	1	340	1.5	370
	230-500	109-236	24x12x12	610x305x305	1	24x15x21	610x380x530	250	2	1	340	1.5	370
	500-1100	236-519	24x24x12	610x610x305	1	24x27x21	610x685x530	250	2	1	250	1.5	370
	500-1100	236-519	24x12x12	610x305x305	2	48x15x21	1220x380x530	250	2	1	250	1.5	370
	1100-2200	519-1038	24x24x12	610x610x305	2	48x27x21	1220x685x530	250	2	1	250	1.5	370

NOTES:

1. SEE FILTER SCHEDULE M003

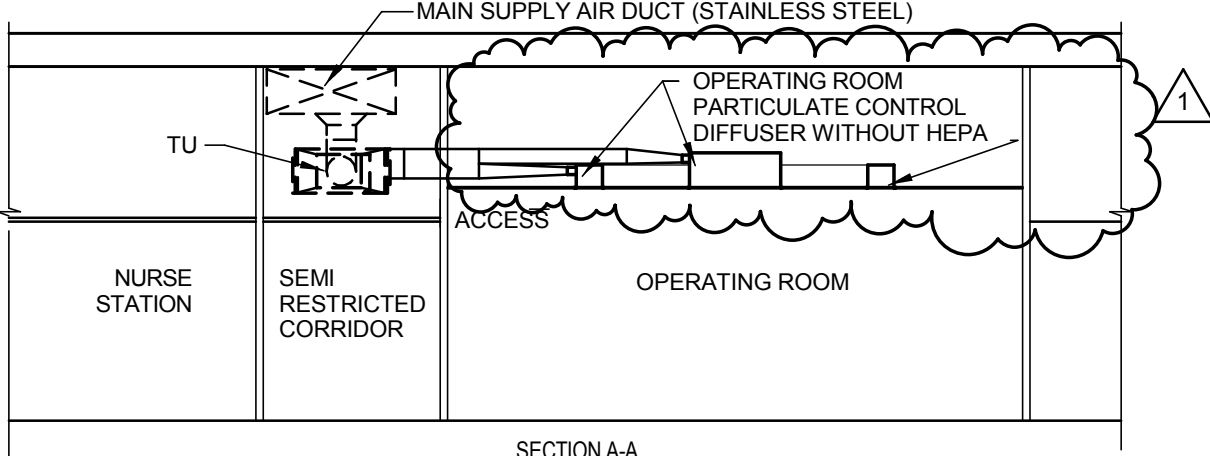


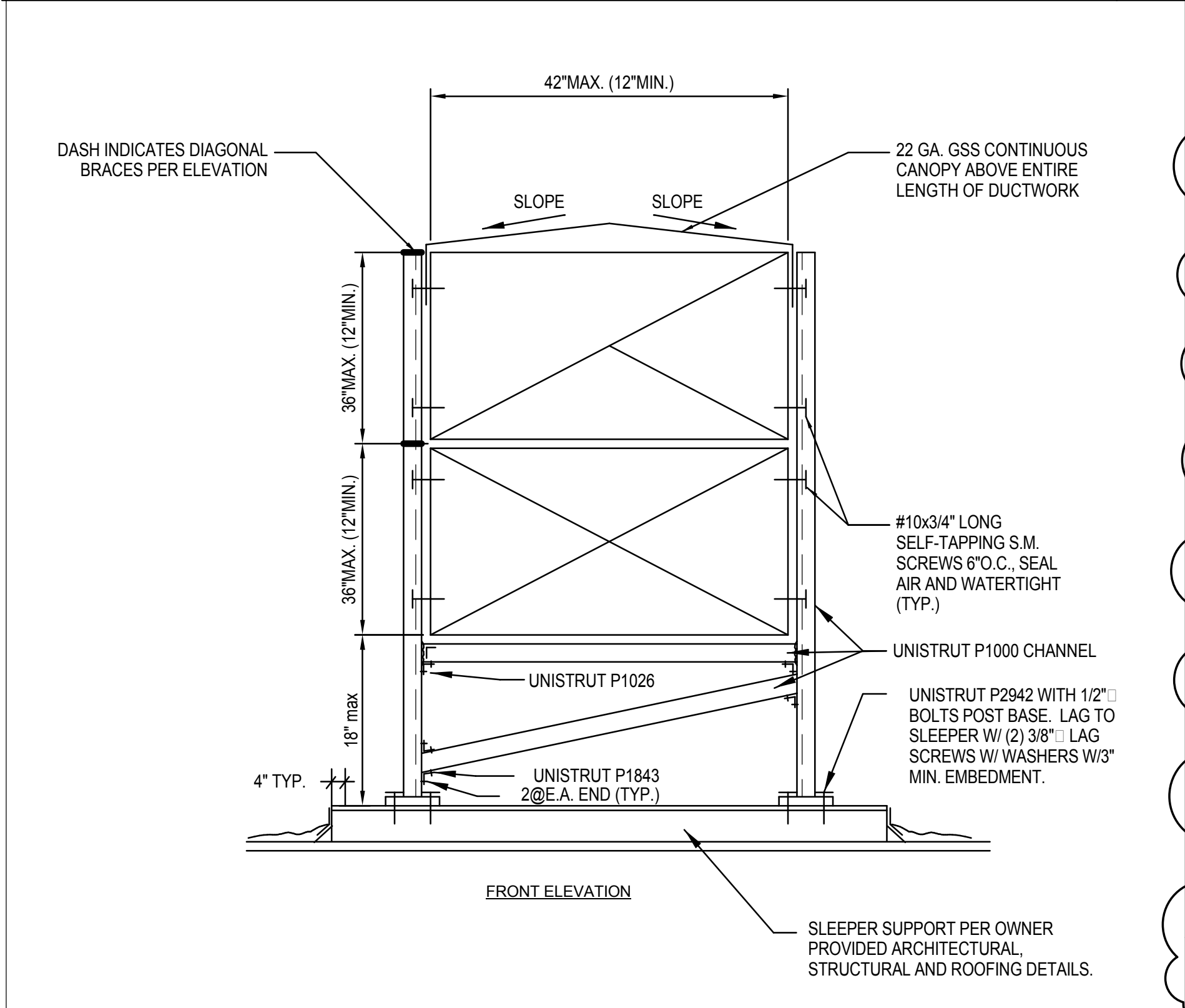
Diagram illustrating the layout of a surgical suite, showing the main supply air duct (stainless steel), the nurse station, the semi restricted corridor, and the operating room. The diagram includes labels for the main supply air duct, the nurse station, the semi restricted corridor, the operating room, and the HEPA filter housing. The diagram is labeled SECTION A-A.

NOTES:

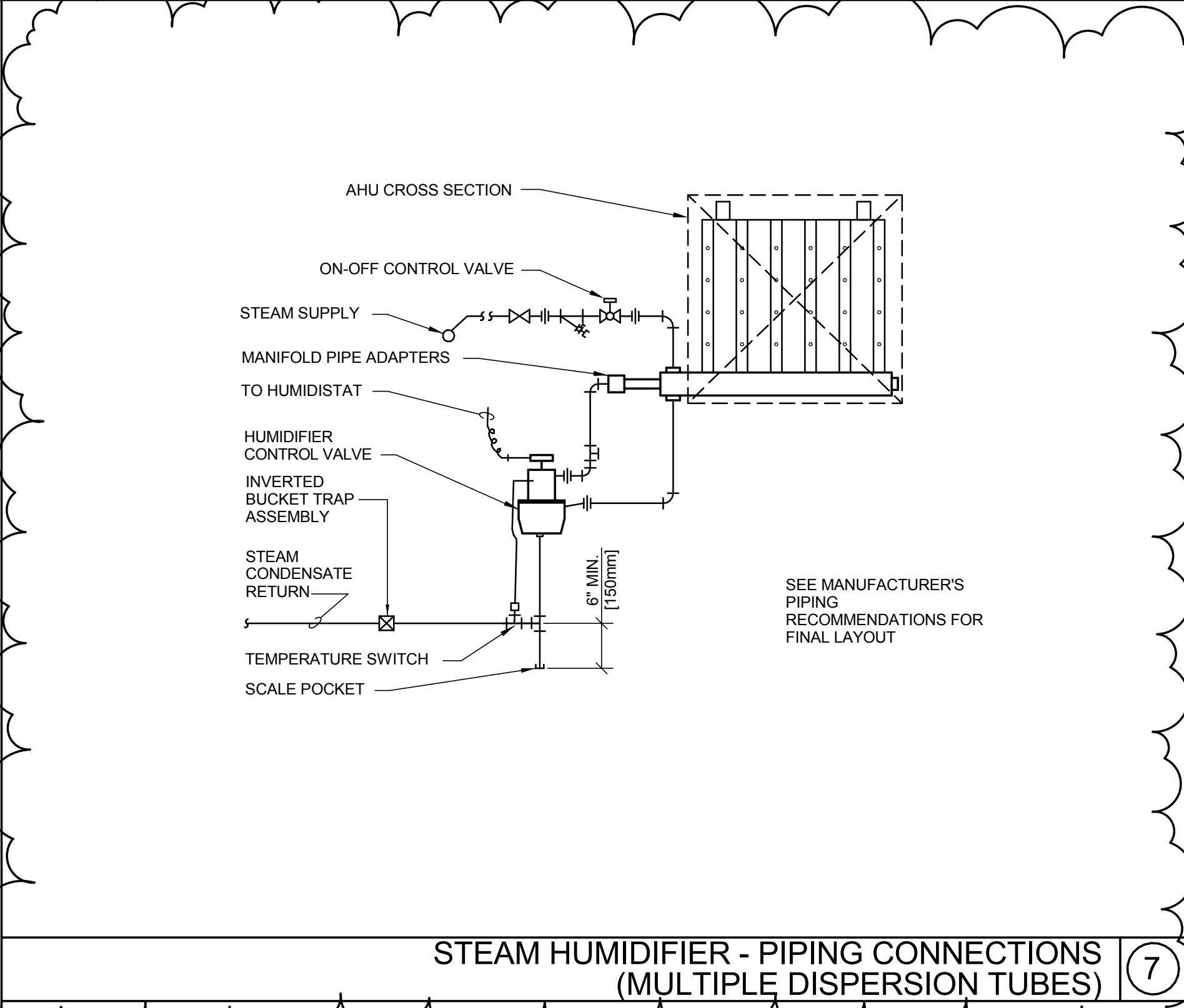
1. COORDINATE ACTUAL HEPA FILTER AND HOUSING SIZES WITH SELECTED MANUFACTURER.

2. HEPA'S FOR SURGICAL ROOM LOCATED IN AHU. COORDINATE WITH MANUFACTURER.

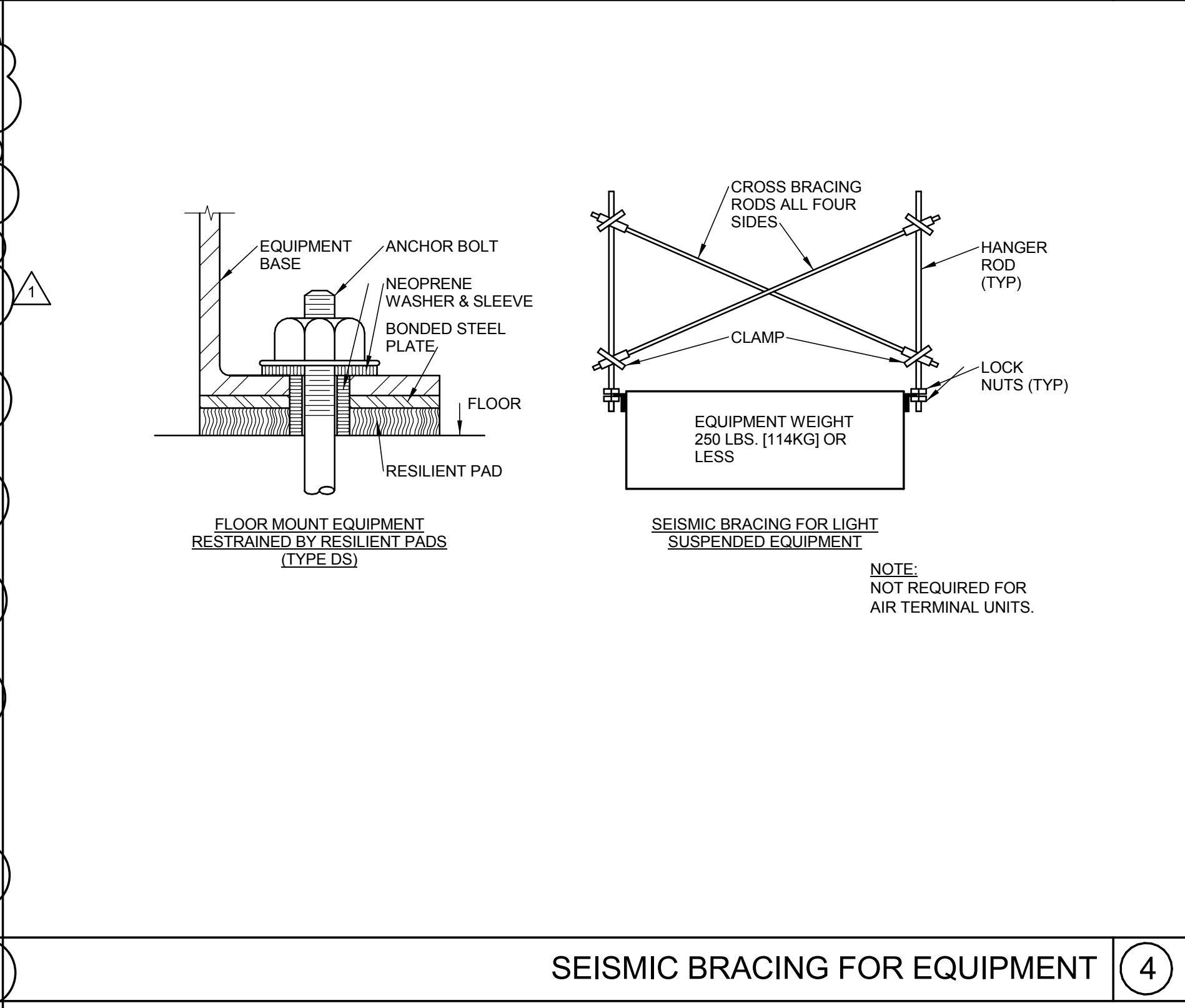
HEPA FILTER SIZING CHART AND SURGICAL ROOM SECTION A-A



OUTDOOR EXPOSED DUCTWORK SUPPORT ON ROOF DETAIL



STEAM HUMIDIFIER - PIPING CONNECTIONS (MULTIPLE DISPERSION TUBES)

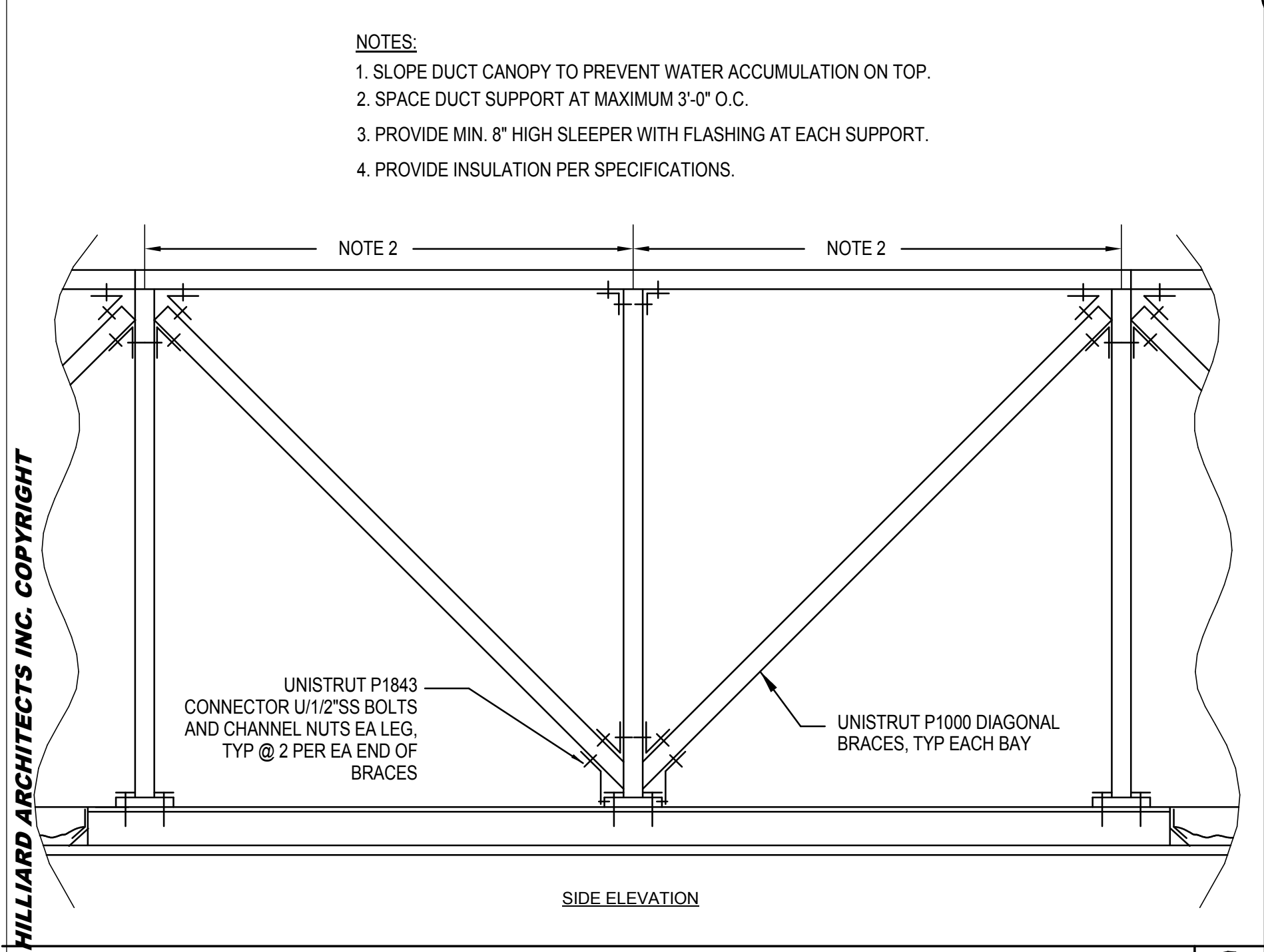


SEISMIC BRACING FOR EQUIPMENT

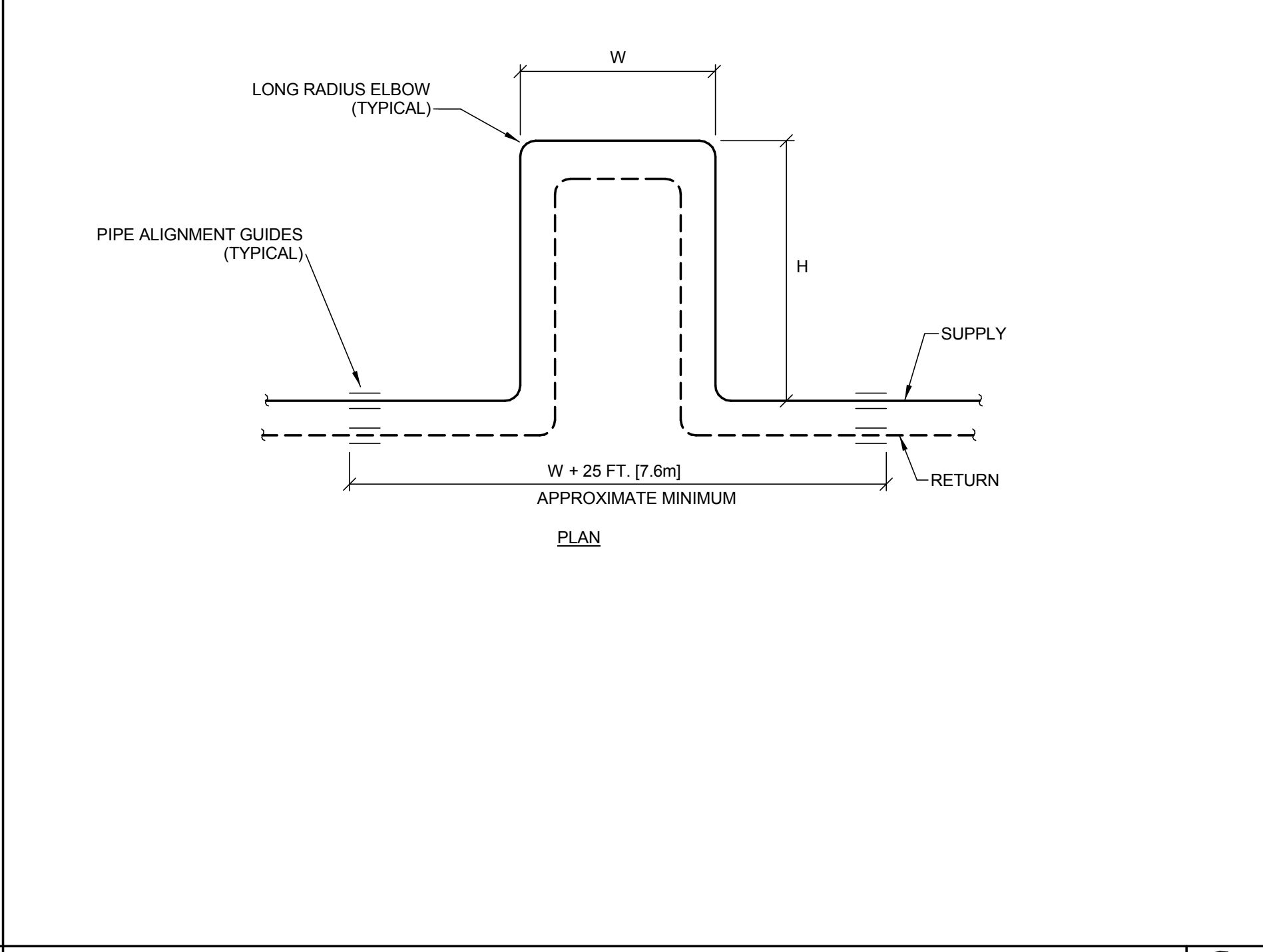
AIR HANDLING UNIT		ITEM
PRE-FILTER 1 (SIDE ACCESS)	3	
INSPECTION SECTION, SMALL	4	
PRE-FILTER 2 (SIDE ACCESS)	5	
ACCESS SECTION, MED-LARGE	6	
HEAT RECOVERY COIL	7	
ACCESS SECTION, MED-LARGE	8	
PRE-HEAT COIL	9	
INSPECTION SECTION SMALL	10	
COOLING COIL	12	
FAN	13	
DIFFUSER PLATE	14	
ACCESS	15	
SECTION, MED-LARGE	16	
AFTER FILTER	17	
PLENUM	18	
HEPA FILTER	19	
DISCHARGE PLENUM (VERTICAL)	19	

NOTE:
1. ACCESS DOORS SHALL BE GASKETED AND HINGED TO OPEN AGAINST FAN OPERATING PRESSURE TO PREVENT AIR LEAKAGE.
2. MINIMUM ACCESS DOOR WIDTH SHALL BE 24" (600mm).
3. ACCESS DOOR HEIGHT SHALL BE DETERMINED BY UNIT CASING BUT NOT TO EXCEED 6'-0" (1800mm).
4. ACCESS DOORS ON FAN SUCTION SHALL OPEN OUTWARD.
5. ACCESS DOORS ON FAN DISCHARGE SIZE SHALL OPEN INWARD.

ACCESS DOOR SWING DETAIL FOR AIR HANDLING UNITS



WATER FILTERS - CLOSED LOOP HYDRONICS SYSTEMS



EXPANSION LOOP DETAIL

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Drawing Title

MECHANICAL DETAILS

Approved: Project Director

Project Title

VA PALO ALTO B-100 CATH LAB RENOVATION AND HYBRID OR

Location

VAPAHCS - PALO ALTO CAMPUS
3801 MIRANDA AVE, PALO ALTO, CA 94304

Date

08.22.2014

Checked

OR

Drawn

RB

Dwg. of

Project Number

640-13-134

Building Number

100

Drawing Number

M504

Dwg. of

Office of Construction and Facilities Management

Department of Veterans Affairs