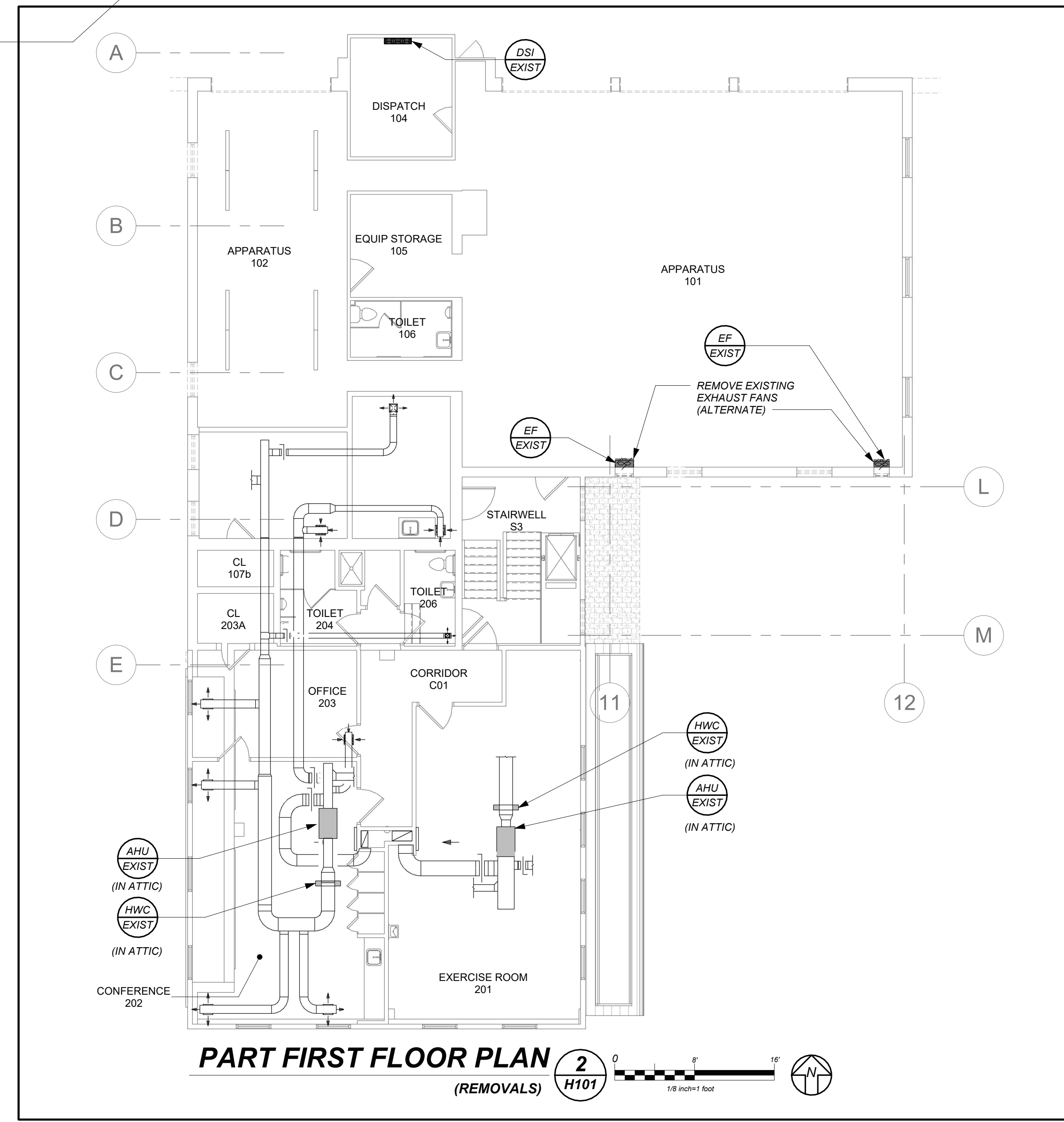


RELOCATION OF EXIST CUS AND ALL ASSOCIATED WORK NOT IN SCOPE, BY OWNER



PART FIRST FLOOR PLAN (REMOVALS) H101

- REMOVAL NOTES:**
- THE SCOPE OF REMOVAL SHOWN ON "REMOVALS" DRAWINGS IS DIAGRAMMATIC ONLY AND INDICATES THE INTENT OF THE WORK TO BE PERFORMED AND NOT THE COMPLETE SCOPE OF DEMOLITION AND/OR REMOVAL WORK. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO REMOVE ANY RELATED MECHANICAL DEVICES EVEN IF NOT SPECIFICALLY INDICATED TO BE REMOVED ON THESE DRAWINGS IN ORDER TO ACCOMMODATE NEW WORK.
 - DEVICES SHOWN CROSS HATCHED ON DRAWINGS ARE ITEMS TO BE REMOVED. ANY DEVICES REMOVED SHALL INCLUDE (BUT SHALL NOT BE LIMITED TO) THE REMOVAL OF ALL ASSOCIATED PIPING, CONTROLS, ETC. THAT ARE NOT INCORPORATED IN THE NEW LAYOUT, UNTIL SUCH REMOVAL IS COMPLETE. THIS CONTRACTOR SHALL PERFORM ALL WORK REQUIRED TO INSURE CONTINUITY OF SERVICE TO EXISTING REMAINING EQUIPMENT. NO EXTRAS RELATING TO THE SCOPE OF WORK DESCRIBED WILL BE ALLOWED.
 - EQUIPMENT, PIPING, ETC. REQUIRED TO RECONNECT SHALL BE INSTALLED CONCEALED WITHIN THE NEW SUSPENDED CEILINGS, PARTITIONS AND/OR WALLS, FLOORS, NO SURFACE MOUNTED OR EXPOSED EQUIPMENT, PIPING, ETC., SHALL BE PERMITTED, UNLESS SPECIFICALLY INDICATED.
 - ALL ITEMS TO BE REMOVED SHALL BE REVIEWED WITH THE OWNER PRIOR TO REMOVAL. OWNER SHALL HAVE FIRST SALVAGE RIGHTS. ITEMS THE OWNER WISHES TO KEEP SHALL BE REMOVED WITH CARE AND STORED AS DIRECTED BY OWNER. ITEMS THE OWNER DOES NOT WISH TO KEEP SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.
 - EXISTING STEAM AND CONDENSATE RETURN DISTRIBUTION MAINS, BRANCH PIPING AND ALL ASSOCIATED SUPPORTS SERVING ALL HVAC SYSTEMS SHALL BE REMOVED IN THEIR ENTIRETY, INCLUDING ALL STEAM PIPING NOT SHOWN ON REMOVAL DRAWINGS. PIPING THAT CAN NOT BE REMOVED DUE TO UNFORESEEN CIRCUMSTANCES AND EXISTING CONDITIONS SHALL BE SUBMITTED TO OWNER ARCHITECT FOR APPROVAL TO BE ABANDONED WITH ENDS CAPPED AND SEALED.
 - REMOVE EXISTING STEAM HEAT-PIPE, RADIATORS, CABINET HEATERS, CONVECTORS, UNIT VENTILATORS WITH ASSOCIATED LOUVERS, FIN TUBE, ENCLOSURES, SUPPORTS AND CONNECTING PIPING. PATCH AND SEAL ASSOCIATED WALLS, FLOOR AND CEILING PENETRATIONS TO MATCH EXISTING CONSTRUCTION.
 - REMOVE EXISTING AIR HANDLERS, STEAM COILS, ASSOCIATED DISTRIBUTION DUCTWORK, LOUVERS, CONNECTING PIPING, CONTROLS AND SUPPORTS. COORDINATE LOCATIONS FOR GC TO PATCH AND SEAL ASSOCIATED WALLS, FLOOR, CEILINGS AND ROOF OPENINGS TO MATCH EXISTING CONSTRUCTION.

HVAC LEGEND	
	POINT OF CHANGE IN DUCT SIZE NEW DUCTWORK
	POINT OF CHANGE IN DUCT SIZE EXISTING DUCTWORK
	FLEXIBLE CONNECTION NEW DUCTWORK
	FLEXIBLE CONNECTION EXISTING DUCTWORK
	SQUARE DUCT TURN WITH TURNING VANES
	NEW 4-WAY CEILING DIFFUSER
	NEW 3-WAY CEILING DIFFUSER
	CEILING EXHAUST/RETURN REGISTER
	REGISTER/DIFFUSER IDENTIFICATION
	DUCT MTD. MANUAL AIR VOLUME DAMPER (W/ LOCKING DEVICE)
	MOTORIZED AIR VOLUME DAMPER (W/ ACCESS DOOR)
	FIRE / SMOKE DAMPER (U.L. APPROVED) & ACCESS DOOR
	HWS HOT WATER HEATING SUPPLY PIPING
	HWR / HWRR HOT WATER RETURN / HOT WATER REVERSE RETURN PIPING
	L LIQUID REFRIGERANT PIPING
	S SUCTION REFRIGERANT PIPING
	CD CONDENSATE DRAIN PIPING
	DS DIESEL FUEL PIPING
	TS TANK SENSOR CABLE
	CC COMMUNICATION CABLE
	EC ELECTRICAL POWER (SEE ELECT. DWGS)
	HD/ES HEAT DETECTOR / EMERGENCY STOP
	ROH REMOTE OVERFILL HORN
	FOS FUEL OIL SUPPLY PIPING
	FOR FUEL OIL RETURN PIPING
	FOG FUEL OIL GAUGE PIPING
	FOF FUEL OIL FILL PIPING
	FOV FUEL OIL VENT PIPING
	FLOW DIRECTION WITHIN PIPE
	GATE VALVE (HORIZONTAL / VERTICAL)
	COMBINATION BALANCING & SHUT-OFF VALVE (CIRCUIT SETTER)
	PIPE CONNS. (BOTTOM, TOP 45 OR 90; PIPE UP)
	ENERGY RECOVERY UNIT IDENTIFICATION
	CABINET HEATER IDENTIFICATION
	UNIT HEATER IDENTIFICATION
	BOILER IDENTIFICATION
	MAKEUP AIR UNIT IDENTIFICATION
	VRF INDOOR FAN COIL UNIT IDENTIFICATION
	DOMESTIC HOT WATER HEATER IDENTIFICATION
	FUEL OIL TANK IDENTIFICATION
	FUEL OIL PUMP SET IDENTIFICATION
	EXHAUST FAN IDENTIFICATION
	HEAT PUMP OUTDOOR UNIT IDENTIFICATION
	DUCTLESS SPLIT INDOOR UNIT IDENTIFICATION
	DUCTLESS SPLIT OUTDOOR UNIT IDENTIFICATION
	HOT WATER PUMP IDENTIFICATION
	GRAVITY INTAKE VENT IDENTIFICATION
	EXISTING AIR HANDLING UNIT IDENTIFICATION
	EXISTING BOILER IDENTIFICATION
	EXISTING HOT WATER PUMP IDENTIFICATION
	EXISTING CONDENSING UNIT IDENTIFICATION
	EXISTING HOT WATER COIL UNIT IDENTIFICATION
	EXISTING EXHAUST FAN IDENTIFICATION
	NEW FIN TUBE RADIATION IDENTIFICATION
	WALL MTD. (5'-2" A.F.F.U.O.N.) TEMPERATURE SENSOR
	EXISTING WALL MTD. TEMPERATURE SENSOR
	DOOR UNDERCUT
	CFM CUBIC FEET PER MINUTE
	PFRE PRE-FINISHED RISER ENCLOSURE
	OAI/FAI OUTSIDE (FRESH) AIR INTAKE
	HVAC HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR
	FC FLEXIBLE CONNECTION
	FSC FULL SIZE CONNECTION
	FSD/AD FIRE/SMOKE DAMPER / ACCESS DOOR
	MD MOTORIZED DAMPER
	WMG WIRE MESH GRILLE
	SECTION/DETAIL/ELEVATION/PART PLAN NUMBER
	DRAWING NUMBER
	SECTION/ELEVATION IDENTIFICATION

FIREHOUSE ADDITIONS & ALTERATIONS

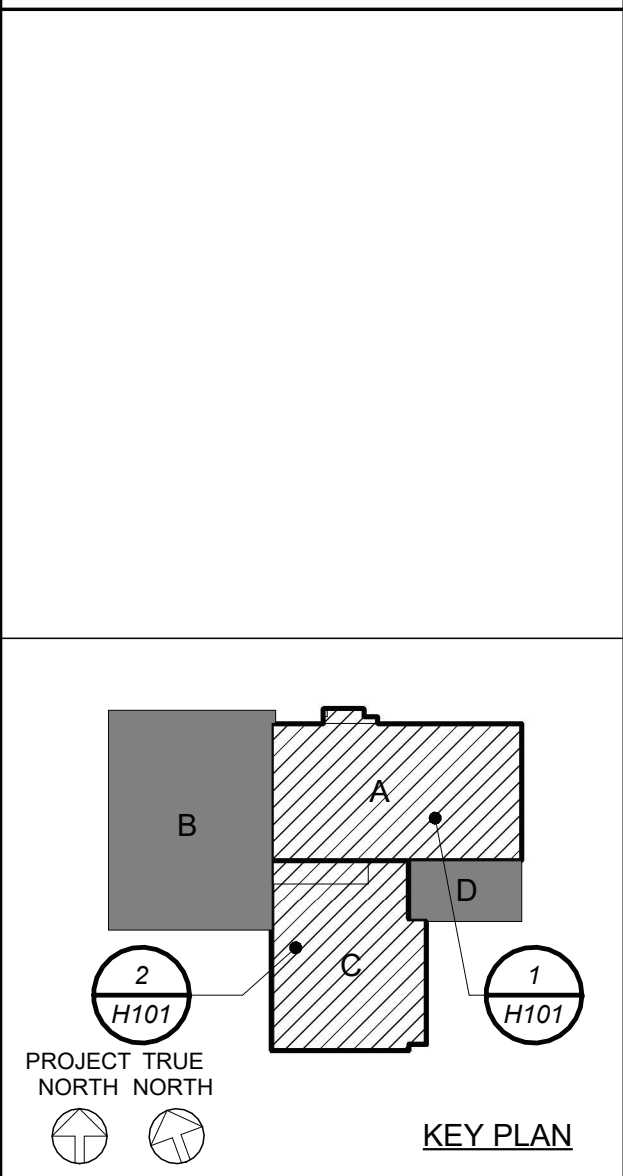
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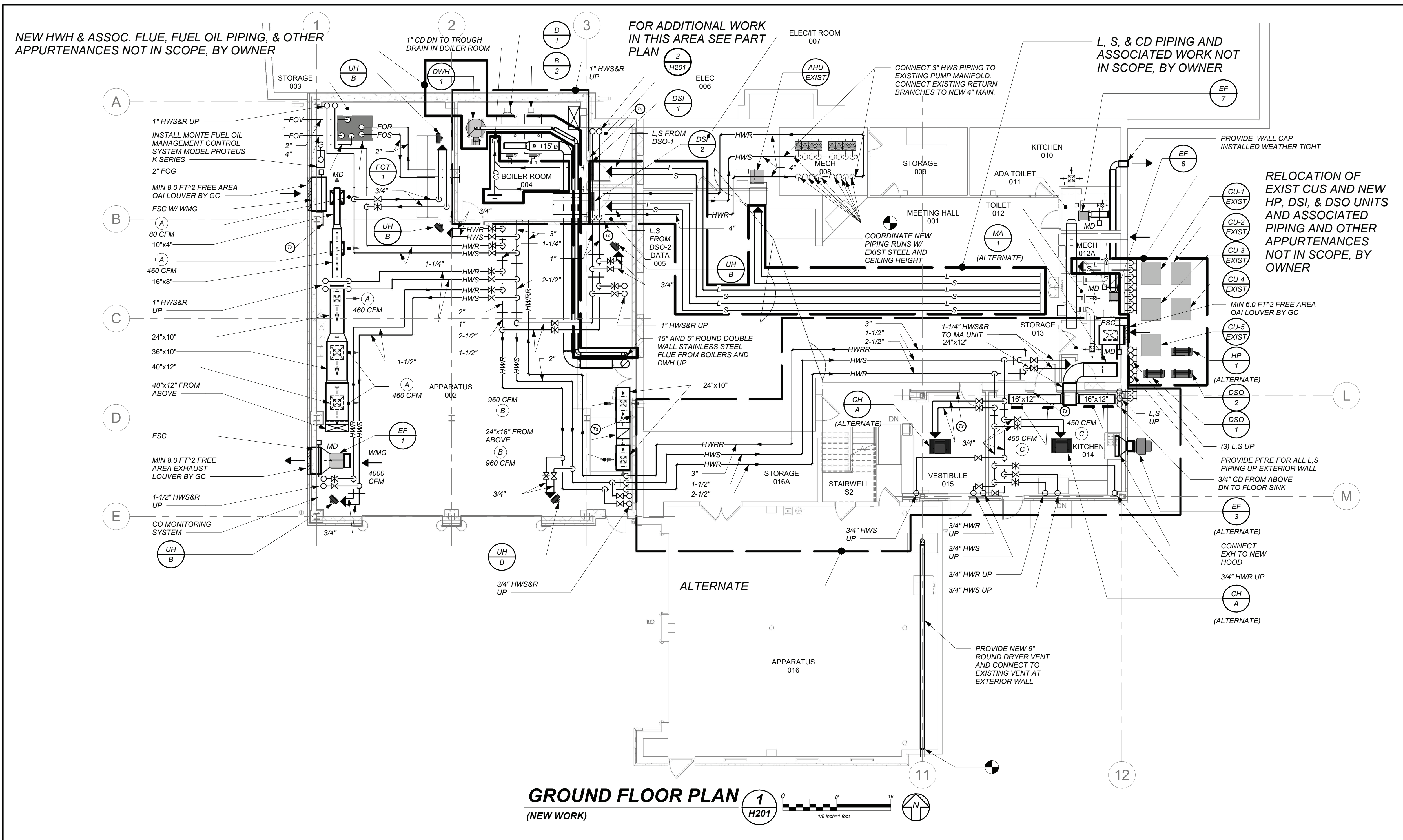
Professional Seal

No.	Date	Issue
6	06-11-2024	CONSTRUCTION DOCUMENTS
5	04-26-2024	ICC REVISION 2
4	03-18-2024	ICC REVISION 1
3	02-02-2024	ISSUED TO ICC
2	11-03-2023	DESIGN DEVELOPMENT
1	07-29-2023	SCHEMATIC DESIGN

Sheet Title
LEGEND, NOTES, & PART GROUND & FIRST FLOOR PLANS

Job No. 2330.00 Date 03/19/24
Scale AS NOTED Drawn / Checked Author
Sheet Number

H101



GROUND FLOOR PLAN
(NEW WORK)

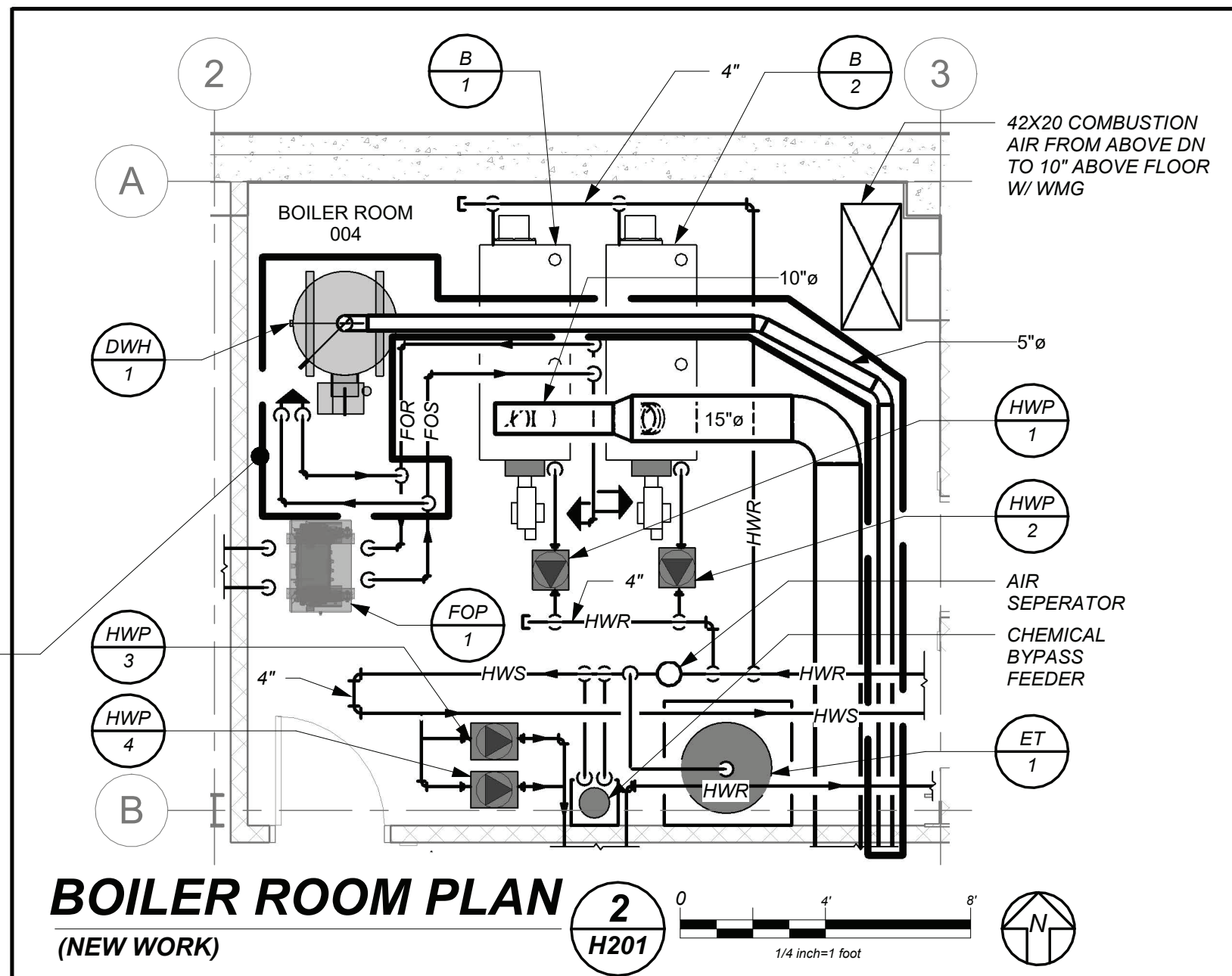
BOILER FILING REQUIREMENTS:

A. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING A LICENSED ENGINEER TO FILE ALL APPLICATIONS, PERMITS AND FILING FEES WITH THE AUTHORITIES HAVING JURISDICTION OVER THE WORK.

B. THE FOLLOWING LIST SERVES AS THE MINIMUM FILING REQUIREMENTS. FAILURE TO LIST ANY ITEM DOES NOT RELIEVE THE CONTRACTOR FROM FULFILLING THAT REQUIREMENT.

1. CERTIFICATE OF RESOLUTION AND LETTER OF AUTHORIZATION FROM OWNER/USER TO AUTHORIZE LICENSED PROFESSIONAL TO EXECUTE FILING.
2. PREPARE AND SUBMIT (2) ORIGINAL FORM DOH-A, FORM DOH-B2, AND ENVIRONMENTAL ASSESSMENT FORM WITH PLANS, PROFESSIONAL ENGINEER'S REPORT, AND SPECIFICATIONS WITH ENGINEER'S SEAL.
3. FILING FEES, PER DEVICE.
4. ALL BOILERS MUST CONFORM TO THE REQUIREMENTS OF PART 227 OF NYCRR.
5. INCLUDE AND FILE ALL OTHER OIL FIRED EQUIPMENT AS REQUIRED.

NEW HWH & ASSOC. FLUE, FUEL OIL PIPING, & OTHER APPURTENANCES NOT IN SCOPE, BY OWNER



BOILER ROOM PLAN
(NEW WORK)

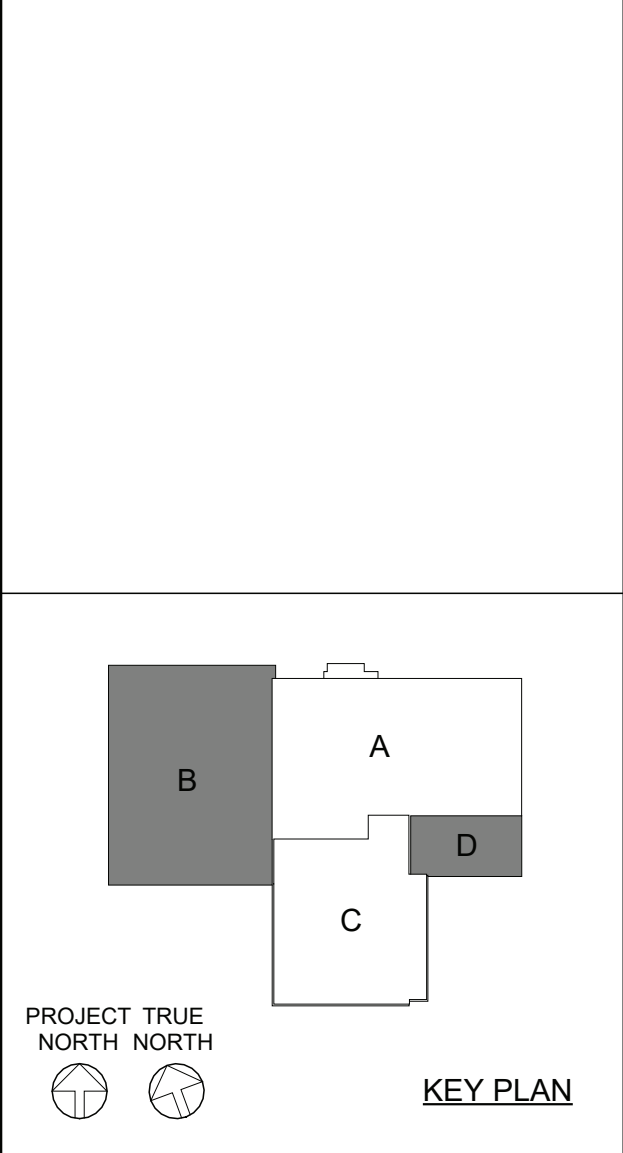
FIREHOUSE
ADDITIONS & ALTERATIONS



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Sheet Title

GROUND FLOOR PLAN

Job No.	Date
2330.00	03/19/24

Scale	Drawn / Checked
AS NOTED	BGA / BGA

Sheet Number

H201

**FIREHOUSE
ADDITIONS & ALTERATIONS**

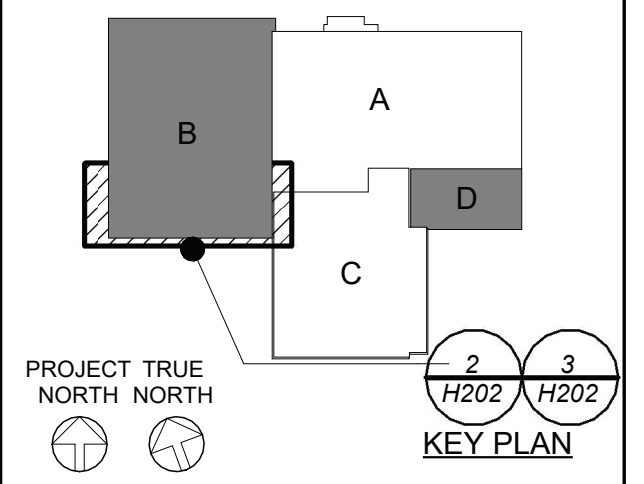


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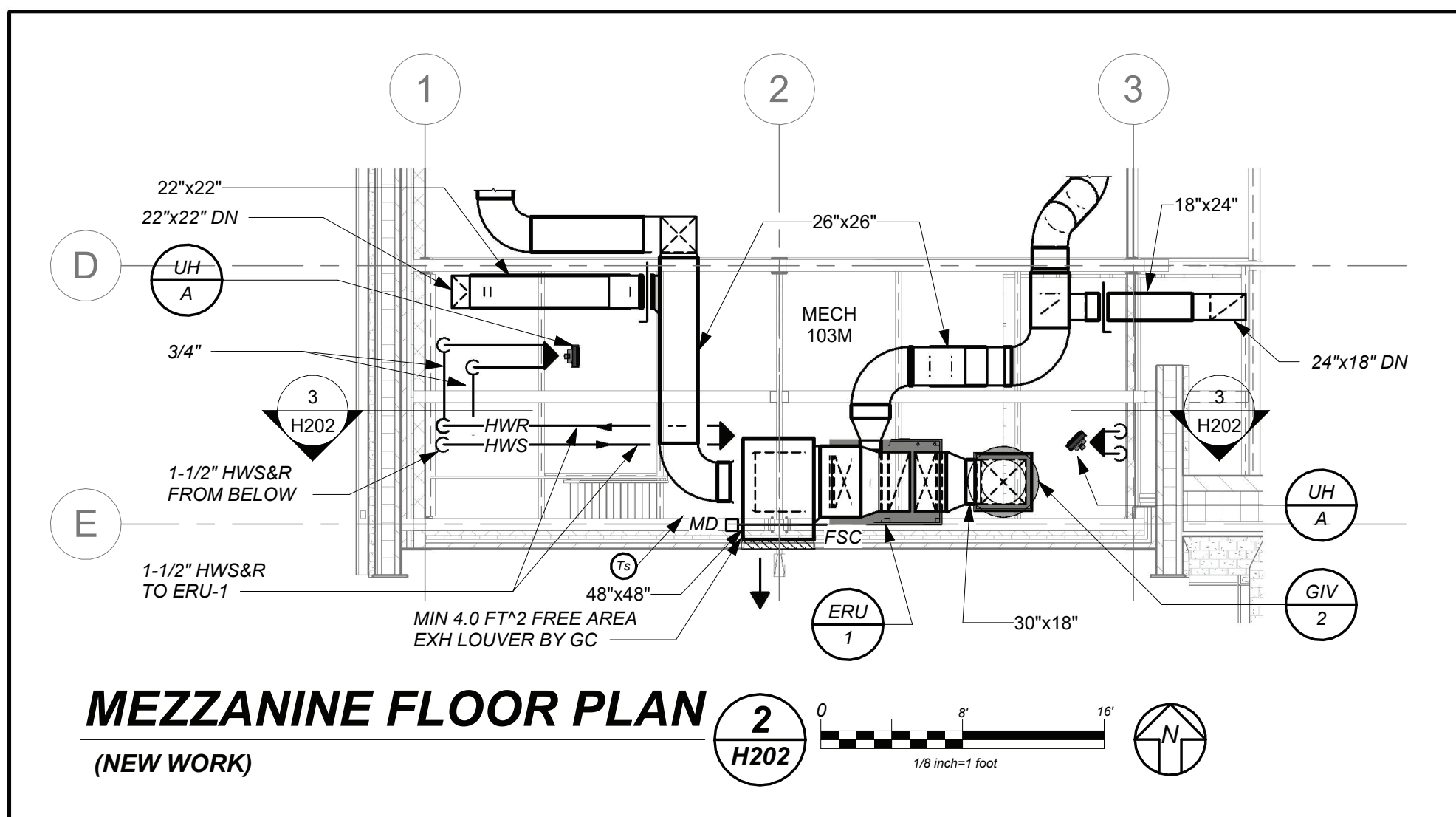
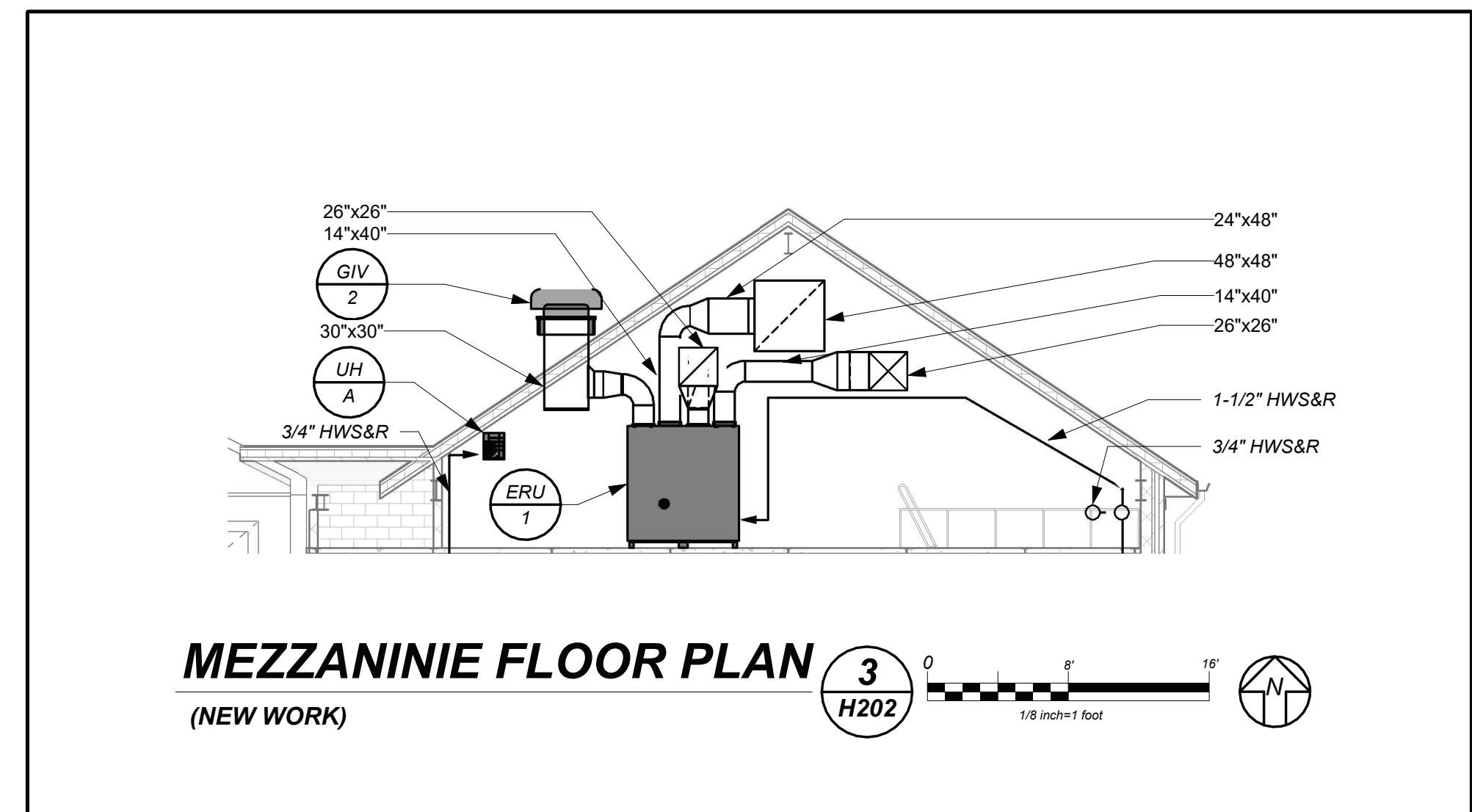
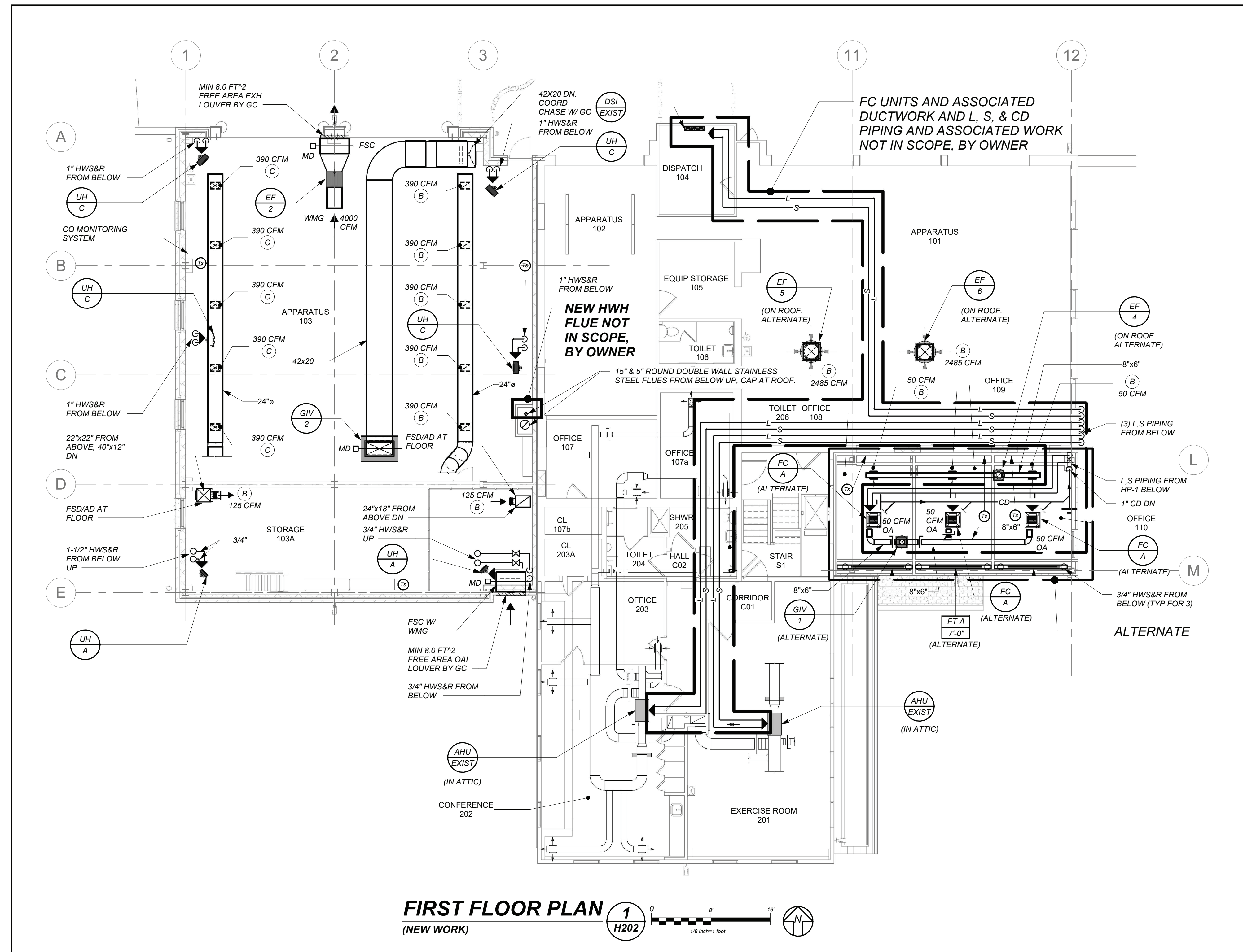
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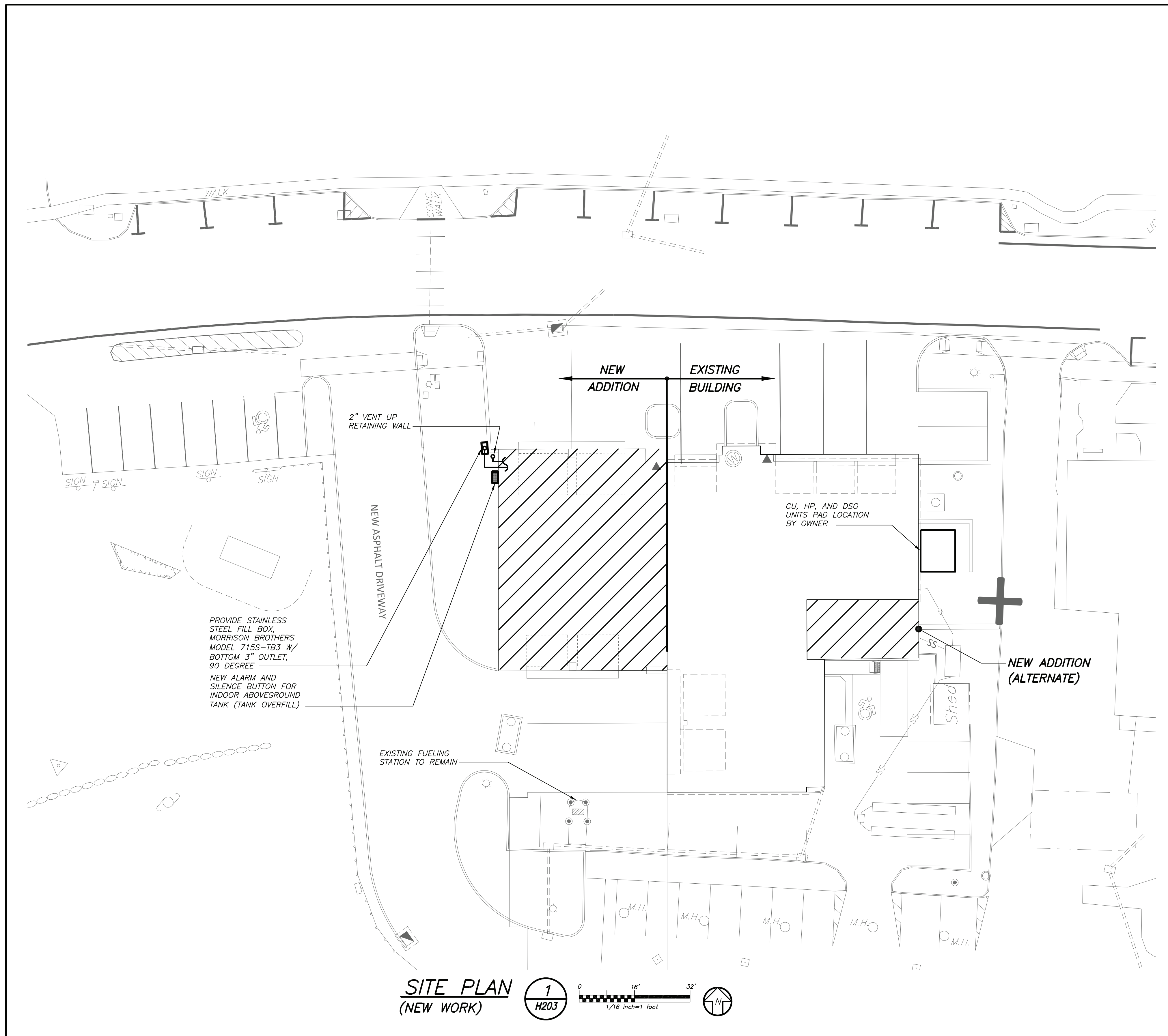


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**FIRST FLOOR
AND MEZZANINE
PLANS**

Job No.	2330.00	Date	03/19/24
Scale	AS NOTED	Drawn / Checked	Author
Sheet Number	H202		





**FIREHOUSE
ADDITIONS & ALTERATIONS**

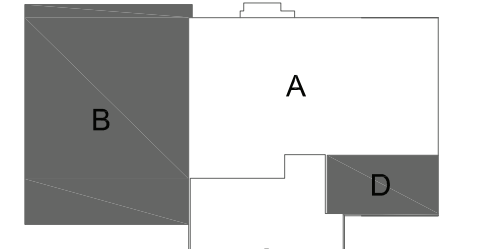


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PROJECT TRUE
NORTH NORTH
KEY PLAN

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No. Date Issue

Sheet Title

SITE PLAN

Job No.	2330.00	Date	03/19/24
Scale	AS NOTED	Drawn / Checked	BGA / BGA

Sheet Number

H203

SCHEDULE OF ENERGY RECOVERY UNITS

GENERAL DATA				SUPPLY FAN DATA		EXH. FAN DATA		ELECTRICAL DATA			HEAT EXCHANGER		HW PREHEATER DATA ①			HW POSTHEATER DATA ②			FILTER	PHYSICAL DATA	REMARKS		
MARK	SERVICE	LOCATION	MODEL No. ①	CFM	E.S.P. IN. WG	CFM	E.S.P. IN. WG	MCA	MOP	ELECTRICAL SERVICE	MODEL	THERMAL EFFICIENCY (%)	CAPACITY TOTAL MBH	E.A.T. °F	L.A.T. °F	GPM	CAPACITY TOTAL MBH	E.A.T. °F	L.A.T. °F	GPM	TYPE	LxWxH(IN.)/WEIGHT(LBS)	REFER TO ② ④ ⑤
ERU 1	ADDITION	MECH 102M	TR4000HW 208-3-CAV	4000	1.25	4000	1.25	20.3	25	208/3/60	HEAT WHEEL	75	92.8	26	47	9.3	101.3	47	70	10.1	2" MERV 13	76x58x82/1650	REFER TO ② ④ ⑤

NOTES

- AS MANUFACTURED BY "SYSTEMAIR".
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- BASED ON ENTERING/LEAVING WATER TEMPERATURES HW 180/160°.
- PROVIDE 100% OA ERU WITH MERV 13 FILTERS, INTEGRAL HOT WATER COILS, VIBRATION ISOLATORS, ECM MOTORS, 100% ECONOMIZER, DRY CONTACTS FOR DIRTY FILTER INDICATOR, FROST CONTROL, PHASE PROTECTION, AND MOTORIZED DAMPERS FOR OA, EA & ECONOMIZER FUNCTION.
- INDICATED EQUIPMENT DESIGNATIONS ARE FOR USE IN CONSTRUCTION ONLY. CONTRACTOR SHALL COORDINATE WITH OWNER ON DESIRED FINAL TAG IDENTIFICATION/NUMBERING/LETTERING. OWNER APPROVED DESIGNATIONS SHALL BE USED IN BMS PROGRAMMING AND ON PERMANENT EQUIPMENT IDENTIFICATION TAGS. AS-BUILT DRAWINGS SHALL BE UPDATED WITH FINAL IDENTIFICATION TAG DESIGNATIONS.

SCHEDULE OF CABINET HEATERS

MARK	TYPE UNIT	MODEL No. ①	CAPACITY DATA				MOTOR		ELECTRIC SERVICE	REMARKS
			MBH	CFM	GPM	PD.FT.	HP	RPM		
CHA 4	CEILING MTD.	RC 1200 03	22.7	335	2.0	0.25	1/15	1050	120/1/60	REFER TO ② ③ ④ ⑤ ⑥

NOTES

- AS MANUFACTURED BY "STERLING".
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- CAPACITIES BASED ON HIGH SPEED FAN SETTING, AND 200 F E.W.T.
- PROVIDE 2 ROW COIL, THROWAWAY FILTERS, INTEGRAL SPEED CONTROL, DISCONNECT SWITCH, REMOTE WALL SENSOR, GASKET AND PERMA LAP FRAME. COORDINATE FINISH AND COLOR PER ARCHITECT.
- UNIT DIMENSIONS 36"x25"x9.5", WEIGHT 150 LBS.
- PROVIDE WITH HOT WATER RETURN AQUASTAT. AQUASTAT SHALL NOT ALLOW FAN TO OPERATE AT WATER TEMPERATURE BELOW 98 DEGREES F.

SCHEDULE OF HOT WATER UNIT HEATERS

MARK	MODEL No. ①	CAPACITY DATA		MOTOR HP	MCA	ELECTRIC SERVICE	PHYSICAL DATA			MTG.	REMARKS
		BTU/HR	AMP				LxWxH (IN)	WEIGHT (LBS)			
UHA 4	HS-024B	17,400	0.8	16W	1.0	115/1/60	15X10X18	30	CEILING	REFER TO ② ③ ④	
UHA 5	HS-048B	34,800	1.4	1/20	1.8	115/1/60	18X12X21	45	CEILING	REFER TO ② ③ ④	
UHA 6	HS-096B	69,700	2.2	1/12	2.8	115/1/60	20X14X24	50	CEILING	REFER TO ② ③ ④	

NOTES

- AS MANUFACTURED BY "STERLING".
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE UNIT MOUNTED VARIABLE SPEED CONTROLLER AND MOUNTING HARDWARE.
- PROVIDE ALL REQUIRED POWER RELAYS.

SCHEDULE OF DEDICATED DUCTLESS SPLIT SYSTEMS

GENERAL DATA			OUTDOOR UNIT							INDOOR UNIT							REMARKS				
MARK	SERVICE	MODEL No. ①	CAPACITY		PHYSICAL DATA			ELECTRICAL DATA		MARK	GENERAL DATA		PHYSICAL DATA								
			COOLING (MBH)	HEATING (MBH)	LOCATION	L	D	H	UNIT WEIGHT (POUNDS)		SERVICE	MCA	MOCP	MAX CFM	MOUNTING LOCATION	LOCATION	L	D	H	UNIT WEIGHT (POUNDS)	
DSU 1	ELEC ROOM	LS363HLV3	33.0	35.2	GRADE	38	13	33	165	208/1/60	23	30	DSU 1	1,166	HIGH WALL	ELEC ROOM	48	11	15	50	REFER TO ② ③ ④
DSU 2	DATA ROOM	LS363HLV3	33.0	35.2	GRADE	38	13	33	165	208/1/60	23	30	DSU 2	1,166	HIGH WALL	DATA ROOM	48	11	15	50	REFER TO ② ③ ④

NOTES

- AS MANUFACTURED BY "LG". (KLIMA NEW YORK 914 255-4390)
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE PROGRAMMABLE THERMOSTAT, LOW AMBIENT CONTROL, MOUNTING HARDWARE AND VIBRATION ISOLATORS.
- REFRIGERANT R410-A.
- INDOOR UNIT POWERED BY OUTDOOR UNIT.

NOT IN SCOPE, BY OWNER

SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES

ROOM NAME/NUMBER	OCCUPANCY CATEGORY	A	B	C	D	E	F	G	H	I	J
		ROOM AREA (SQ.FT.)	PEOPLE DENSITY (#/1000 SQ.FT.)	PEOPLE DENSITY AIR FLOW RATE (CFM/PERSON)	AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	NUMBER OF PEOPLE (A+B)*1000=#P	OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (FxC)+(A+D)=CFM	ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	MINIMUM ROOM VENTILATION AIR FLOW RATE G+H=CFM	MINIMUM EXHAUST AIR FLOW RATE A+E=CFM
Office 1 / 108	OFFICE SPACE	175	5	5	0.06	0	1	16	0.8	19	0
Office 2 / 109	OFFICE SPACE	175	5	5	0.06	0	1	16	0.8	19	0
Office 3 / 110	OFFICE SPACE	175	5	5	0.06	0	1	16	0.8	19	0
Kitchen / 014	KITCHEN (COOKING)	300	20	7.5	0.12	0.7	6	81	0.8	101	210
Apparatus Bays / 002	PARKING GARAGES	2005	0	0	0	0.9	0	0	0.8	0	1805
Storage / 003	OCCUPIABLE STORAGE ROOMS FOR LIQUID OR GELS	370	2	5	0.12	0	1	49	0.8	62	0
Apparatus Bays / 103	PARKING GARAGES	2130	0	0	0	0.9	0	0	0.8	0	1917
Storage / 103A	OCCUPIABLE STORAGE ROOMS FOR LIQUID OR GELS	675	2	5	0.12	0	2	91	0.8	114	0

SCHEDULE OF OUTDOOR AIR SOURCE HEAT PUMPS

GENERAL DATA				CAPACITY		PHYSICAL DATA		ELECTRICAL INFORMATION			EER	SEER	REMARKS
MARK	SERVICE	LOCATION	MODEL No. ①	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	DxWxH (IN)	WEIGHT (LBS)	V/PH/HZ	MCA	MOCP			
HP 1	OFFICES	GRADE	MULTI V S ARUN048GSS4	48,000	54,000	38x13x55	225	208/1/60	30	50	13.2	20	REFER TO ② ③ ④ ⑤ ⑥ ⑦

NOTES

- AS MANUFACTURED BY "LG".
- BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A.
- INSTALL ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE DC INVERTER COMPRESSOR SPEED CONTROL BASED ON SYSTEM LOAD.
- PROVIDE PROGRAMMABLE THERMOSTAT, LOW AMBIENT CONTROL, HARD START, AND CRANKCASE HEATER.
- INSTALL ON CONCRETE PAD FURNISHED BY OTHERS.
- INDICATED EQUIPMENT DESIGNATIONS ARE FOR USE IN CONSTRUCTION ONLY. CONTRACTOR SHALL COORDINATE WITH OWNER ON DESIRED FINAL TAG IDENTIFICATION/NUMBERING/LETTERING. OWNER APPROVED DESIGNATIONS SHALL BE USED IN BMS PROGRAMMING AND ON PERMANENT EQUIPMENT IDENTIFICATION TAGS. AS-BUILT DRAWINGS SHALL BE UPDATED WITH FINAL IDENTIFICATION TAG DESIGNATIONS.

NOT IN SCOPE, BY OWNER

SCHEDULE OF VRF HEAT RECOVERY INDOOR UNITS

MARK	LOCATION	MODEL No. ①	INDOOR AIR HANDLER INFORMATION				COOLING COIL DATA ②		HEATING		REMARKS	
			SUPPLY FAN DATA	TOTAL CAP	SENSIBLE CAP	ENT. AIR TEMP DB/WB	TOTAL CAP	ENT. AIR TEMP				
EC 1	CEILING	ARNU153TD4	530	2.09	208/1/60	15,400	11,400	80	67	17,100	70	REFER TO ② ③ ④ ⑤

NOTES

- AS MANUFACTURED BY "LG".
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A.
- PROVIDE MOUNTING HARDWARE AND VIBRATION ISOLATORS
- PROVIDE FACTORY MOUNTED INTEGRAL CONDENSATE PUMP, CHECK VALVE, ANTI SWEAT SLEEVE AND AUTO SHUTDOWN OVERFLOW SWITCH.

FIREHOUSE ADDITIONS & ALTERATIONS

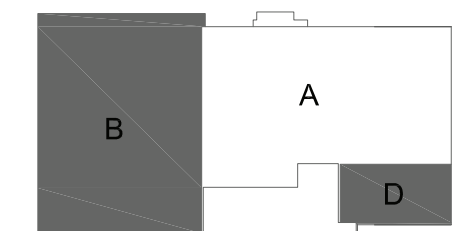


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6	06-11-2024	CONSTRUCTION DOCUMENTS
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3	02-02-2024	ISSUED TO ICC
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1	07-29-2023	SCHEMATIC DESIGN

No. Date Issue

Sheet Title

SCHEDULES

Job No. 2330.00 Date 03/19/24

Scale AS NOTED Drawn / Checked BGA / BGA

Sheet Number

H301

SCHEDULE OF HOT WATER PUMPS

MARK	SERVICE	LOCATION	MODEL No.	GPM	HEAD FT. H ₂ O	RPM	MOTOR HP	ELECTRIC SERVICE	REMARKS
SWP-1	BOILER No.1	BOILER ROOM	E90-2AAB	110	20	1800	1.0	208/3/60	REFER TO ①②③
SWP-2	BOILER No.2	BOILER ROOM	E90-2AAB	110	20	1800	1.0	208/3/60	REFER TO ①②③
SWP-3	ADDITION	BOILER ROOM	E90-2AB	87	27	1800	1.5	208/3/60	REFER TO ①②③
SWP-4	ADDITION	BOILER ROOM	E90-2AB	87	27	1800	1.5	208/3/60	REFER TO ①②③

NOTES

- AS MANUFACTURED BY "BELL & GOSSETT".
- INSTALL PUMPS PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE VFD.

SCHEDULE OF REGISTERS AND DIFFUSERS

MARK	TYPE	SERVICE	MODEL No.	DIRECTION DISCHARGE	DAMPER TYPE	FINISH	TYPE	REMARKS
A	CEILING DIFFUSER	SUPPLY	SMD	3-WAY	OPPOSED BLADE	PER ARCH.	LAY IN	REFER TO ②③④⑥
B	LOUVERED GRILLE	RETURN/ EXHAUST	635	-			LAY IN/ SURFACE	REFER TO ②③④⑦
C	SIDEWALL REGISTER	SUPPLY	625	4-WAY			SURFACE	REFER TO ②③④⑥

NOTES

- AS MANUFACTURED BY "PRICE".
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE CABLE OPERATED DAMPERS IN INACCESSIBLE AREAS.
- PROVIDE MOUNTING FRAME COMPATIBLE W/ MOUNTING SURFACE. COORDINATE ALL BORDER TYPES, COLORS, FINISHES AND DIMENSIONS WITH ARCHITECT.

SUPPLY NECK SIZE PER CFM RANGE (NOT TO EXCEED 500 fpm)				RETURN NECK SIZE PER CFM RANGE (NOT TO EXCEED 675 fpm)			
50 TO 99	100 TO 299	300 TO 499	500 TO 1199	50 TO 149	150 TO 249	250 TO 399	400 TO 1099
6x6	9x9	12x12	15x15	18x18	21x21	24x24	6x6
							8x8
							10x10
							12x12
							14x14
							16x16
							18x18
							24x24

SCHEDULE OF FUEL OIL PUMPS

MARK	SERVICE	LOCATION	MODEL No.	GPH	MOTOR HP	ELECTRIC SERVICE	REMARKS
FOP-1	BOILERS	BOILER RM.	SKS25-AB-D	51	(2)1/3	120/1/60	REFER TO ②③

NOTES

- AS MANUFACTURED BY "PREFERRED UTILITIES".
- INSTALL PUMPS PER MANUFACTURER'S RECOMMENDATIONS.
- FUEL OIL PUMPS MUST BE COORDINATED WITH ELECTRICAL POWER AND BOILER CAPACITIES PRIOR TO PURCHASE. PROVIDE DUPLEX PUMP WITH DUPLEX STRAINER WITH DIFFERENTIAL PRESSURE SWITCH, AND FLOW SWITCH WITH LOSS OF FLOW ALARM. DIMENSIONS 55"Lx24"Wx65"H

SCHEDULE OF BOILERS

BOILER DATA			BURNER DATA		ELECTRICAL		PHYSICAL DATA		REMARKS	
MARK	LOCATION	MODEL No.	INPUT (GPH)	OUTPUT (MBH)	FUEL	SERVICE	HP	(IN)		WEIGHT (LBS)
B-1	BOILER ROOM	80 SERIES 1180	10.6	1229	NO. 2 OIL	208/1/60	3/4	116Lx30Wx58H	3750	REFER TO ②③④⑤

NOTES

- AS MANUFACTURED BY "WEIL-MCLAIN".
- PROVIDE ASSOCIATED POWEFULME OIL BURNER.
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- BOILER INSTALLATION SHALL CONFORM TO ALL REQUIREMENTS OF INSURANCE UNDERWRITER, NFPA AND ALL AUTHORITIES HAVING JURISDICTION. BOILERS SHALL BE FULLY FIELD COMMISSIONED BY AUTHORIZED TECHNICIAN FOR THE TYPE OF OIL FIRED.
- HOT WATER BASED ON 160°F E.W.T., 180°F L.W.T.

SCHEDULE OF EXHAUST FANS

MARK	SERVICE	LOCATION	MODEL No.	TYPE	CFM	EXT. S.P. IN H ₂ O	RPM	HP (WATTS)	ELECTRIC V/PH/Hz	SIZE (IN)	WEIGHT (LBS.)	REMARKS
EF-1	BAY 9/10 CO DETECTOR	CEILING	SQ-20-M2-VG	IN-LINE CENTRIFUGAL	4000	0.35	752	2	208/1/60	29Lx32Wx32H	175	REFER TO ②③⑥
EF-2	BAY 1/2 CO DETECTOR	CEILING	SQ-20-M2-VG	IN-LINE CENTRIFUGAL	4000	0.35	752	2	208/1/60	29Lx32Wx32H	175	REFER TO ②③⑥
EF-3	KITCHEN EXHAUST	SIDEWALL EXTERIOR	CUE-160-VG	SIDEWALL	1764	0.35	807	1/2	120/1/60	30"øx32W	75	REFER TO ②③⑥
EF-4	OFFICE ADDITION	ROOF	G-070-VG	ROOF CENTRIFUGAL	150	0.35	1454	1/15	120/1/60	19"øx24H	25	REFER TO ②④⑥
EF-5	EXIST BAY 4/5/6	ROOF	G-180-VG	ROOF CENTRIFUGAL	2485	0.35	772	3/4	120/1/60	36"øx40H	100	REFER TO ②⑤⑥
EF-6	EXIST BAY 4/5/6	ROOF	G-180-VG	ROOF CENTRIFUGAL	2485	0.35	772	3/4	120/1/60	36"øx40H	100	REFER TO ②⑤⑥
EF-7	EXIST TOILET 005A	CEILING	SP-A200	CEILING CABINET	200	0.35	900	(5.3)	120/1/60	14Lx12Wx11H	25	REFER TO ②③⑥
EF-8	EXIST ADA TOILET 006	CEILING	SP-A200	CEILING CABINET	200	0.35	900	(5.3)	120/1/60	14Lx12Wx11H	25	REFER TO ②③⑥

NOTES

- AS MANUFACTURED BY "GREENHECK".
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE VIBRATION ISOLATORS, BACKDRAFT DAMPER, SPEED CONTROL, AND NAMEPLATE IDENTIFYING FAN MARK, MODEL NO., CFM, RPM, HP, AND ELECTRICAL SERVICE.
- PROVIDE ROOF CURB, WEATHERPROOF FACTORY MOUNTED DISCONNECT SWITCH, INTERNALLY MOUNTED VARIABLE SPEED CONTROLLER, MOTORIZED DAMPER, AND NAMEPLATE IDENTIFYING FAN MARK, MODEL NO., CFM, RPM, HP, AND ELECTRICAL SERVICE.
- PROVIDE ROOF CURB, WEATHERPROOF FACTORY MOUNTED DISCONNECT SWITCH, TWO SPEED CONTROL, MOTORIZED DAMPER, AND NAMEPLATE IDENTIFYING FAN MARK, MODEL NO., CFM, RPM, HP, AND ELECTRICAL SERVICE.
- INDICATED EQUIPMENT DESIGNATIONS ARE FOR USE IN CONSTRUCTION ONLY. CONTRACTOR SHALL COORDINATE WITH OWNER ON DESIRED FINAL TAG IDENTIFICATION/ NUMBERING/ LETTERING. OWNER APPROVED DESIGNATIONS SHALL BE USED IN BMS PROGRAMMING AND ON PERMANENT EQUIPMENT IDENTIFICATION TAGS. AS-BUILT DRAWINGS SHALL BE UPDATED WITH FINAL IDENTIFICATION TAG DESIGNATIONS.

SCHEDULE OF MAKE-UP AIR UNIT

MARK	SERVICE	LOCATION	MODEL No.	GENERAL DATA		FILTERS		SUPPLY FAN DATA				HEATING				REMARKS	
				OAI CFM	SIZE & TYPE	CFM	EXT. S.P. IN H ₂ O	FAN RPM	MOTOR HP	ELECTRIC SERVICE	EAT °F	LAT °F	HEATING CAPACITY MBH	EWT °F	LWT °F		GPM
MA-1	KITCHEN	STORAGE 013	NDB16CAAH9ADAP2BDAAM	1700	2" MERV 8	1700	1.0	2687	1	208/1/60	10	76	142	180	160	14.2	REFER TO ②③④

NOTES

- AS MANUFACTURED BY "MAGICAIRE".
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- TIE INTO KITCHEN EXHAUST FAN
- PROVIDE MOTORIZED DAMPERS, ECM FAN, FACTORY INSTALLED INTEGRAL DISCONNECT SWITCH, SINGLE POINT POWER CONNECTION, END SUPPLY CONNECTIONS, AND 2-ROW HOT WATER COIL. DIMENSIONS 58"Hx 26"Wx 24"D; WEIGHT 300 LBS.

SCHEDULE OF EXPANSION TANKS

MARK	SERVICE	LOCATION	MODEL No.	TANK VOLUME GALS.	ACCEPTANCE VOLUME GALS.	REMARKS
ET-1	HEATING SYSTEM	BOILER ROOM	B600	158	158	REFER TO ①②③

NOTES

- AS MANUFACTURED BY "BELL & GOSSETT".
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- ASME RATED, VERTICAL FLOOR MOUNTING.

SCHEDULE OF GRAVITY INTAKE VENTS

MARK	SERVICE	LOCATION	MODEL No.	CFM	PHYSICAL DATA DIMENSION / WEIGHT	REMARKS
GIV-1	OFFICES 1,2,3	OFFICE ADDITION ROOF	GRSI-8	150	21"ø x 20"H / 10 LBS	REFER TO ②
GIV-2	BAY ADDITION ROOF	BAY ADDITION ROOF	GRSI-30	4000	48"ø x 31"H / 40 LBS	REFER TO ②

NOTES

- AS MANUFACTURED BY "GREENHECK FAN CO.".
- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

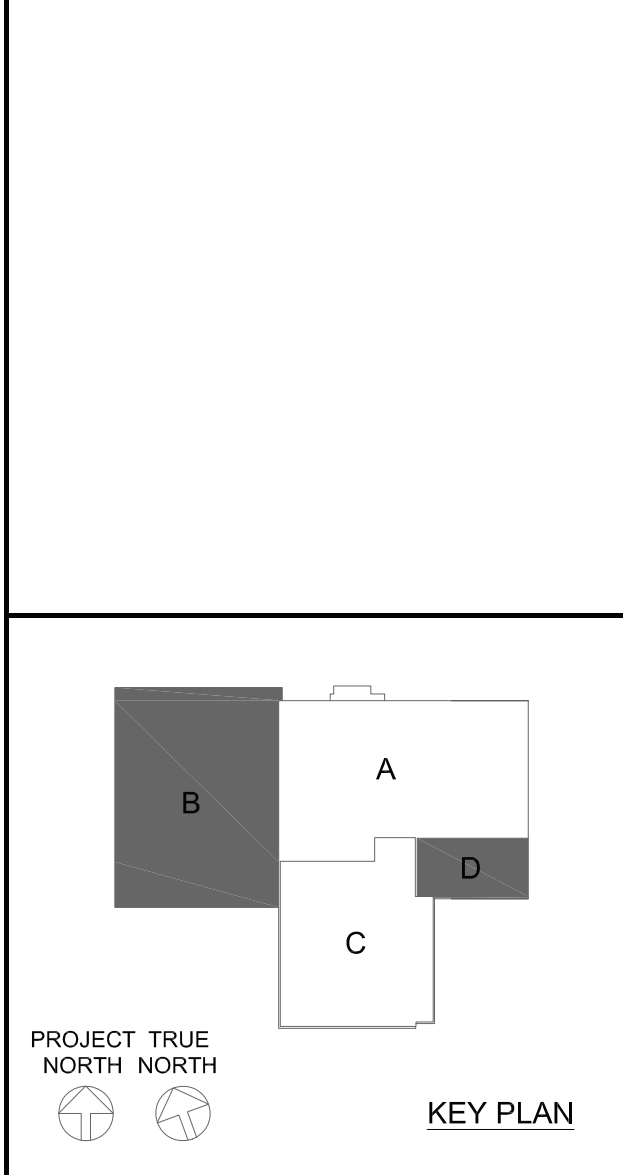
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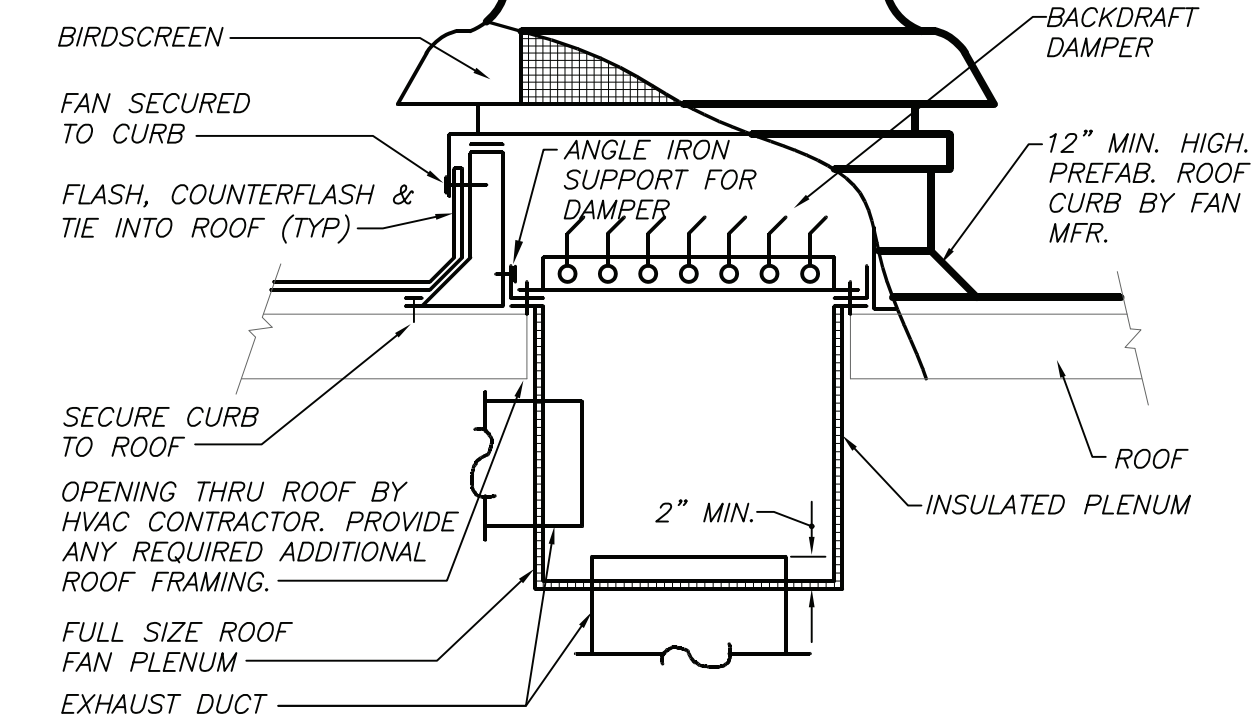


No.	Date	Issue
6	06-11-2024	CONSTRUCTION DOCUMENTS
5	04-26-2024	ICC REVISION 2
4	03-18-2024	ICC REVISION 1
3	02-02-2024	ISSUED TO ICC
2	11-03-2023	DESIGN DEVELOPMENT
1	07-29-2023	SCHEMATIC DESIGN

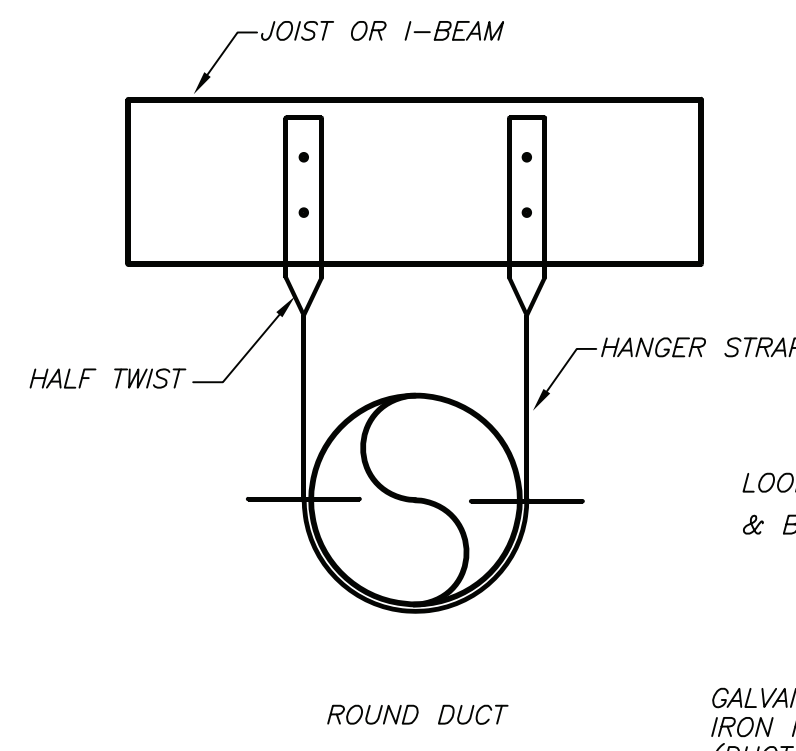
SCHEDULES

Job No.	2330.00	Date	03/19/24
Scale	AS NOTED	Drawn / Checked	BGA / BGA
Sheet Number	H302		

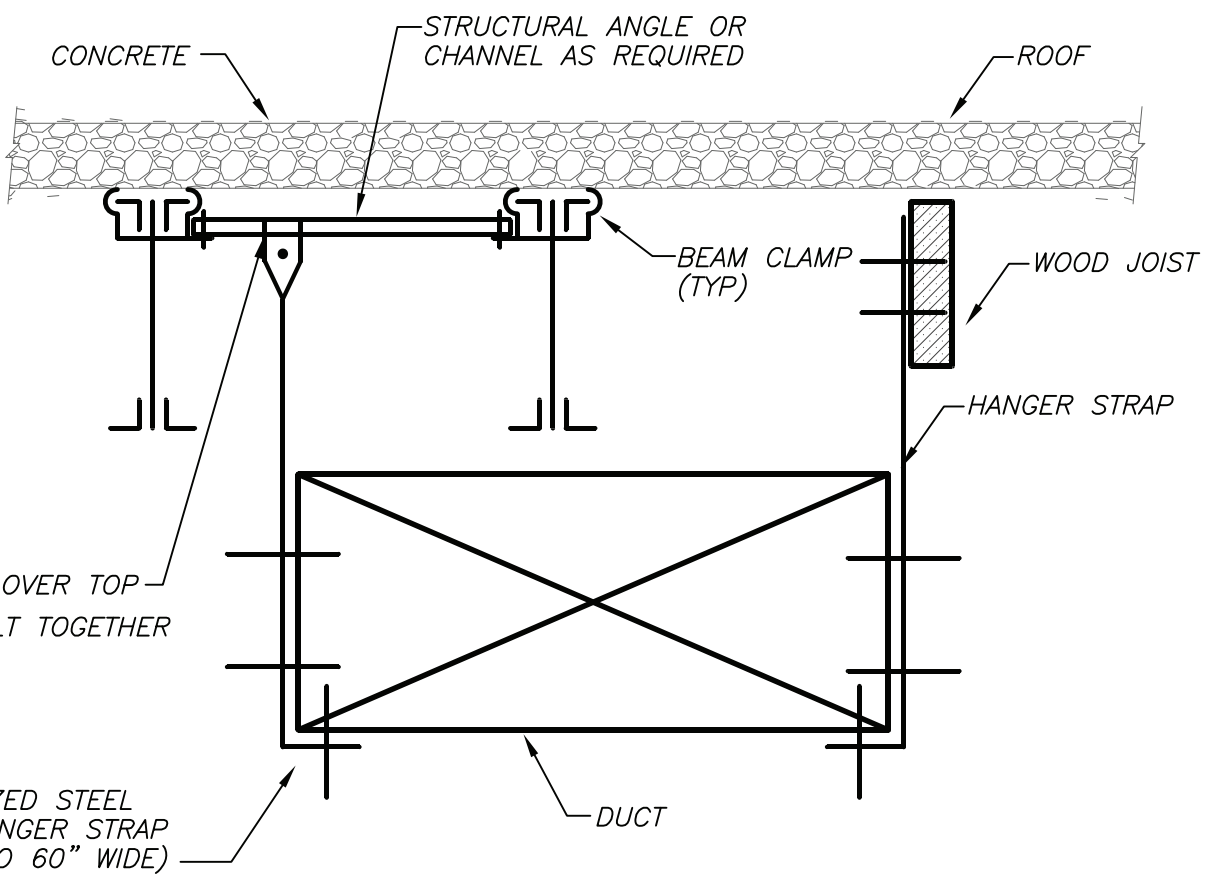
NOTE: CONTRACTOR TO PROVIDE FACTORY LOCAL DISCONNECT. CONTRACTOR SHALL FURNISH & INSTALL ALL COMPONENTS.



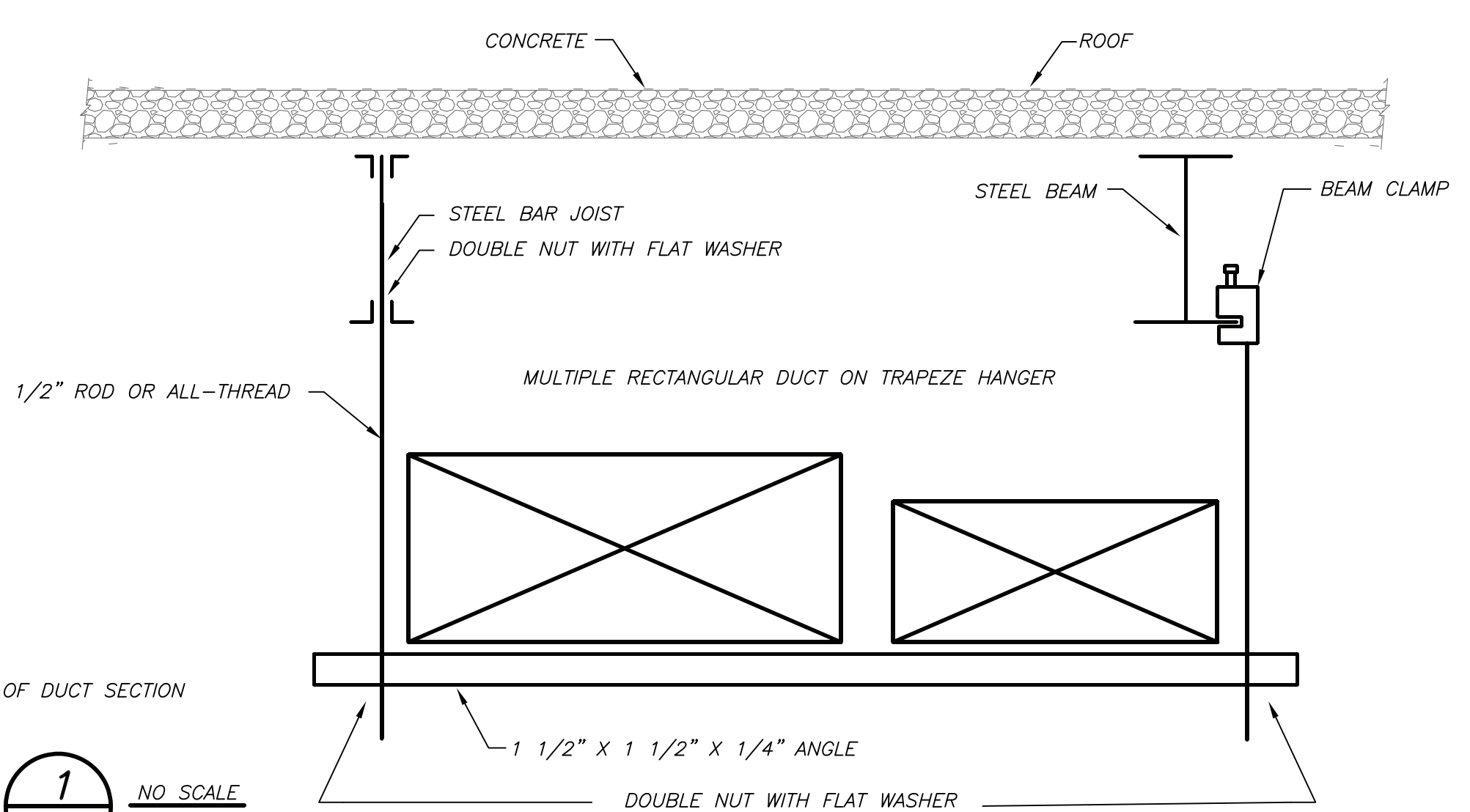
ROOF EXHAUST FAN DETAIL (6) H401 NO SCALE



DUCT SIZE	METAL GAUGE
UPTO 2 SQFT.	20 GA. GALV.
UPTO 4 SQFT.	16 GA. GALV.
UPTO 6 SQFT.	12 GA. GALV.
UPTO 8 SQFT.	1/16" GALV.
OVER 8 SQFT.	SEE SMACNA GUIDELINE



DUCT SUPPORT DETAIL (1) H401 NO SCALE



FIREHOUSE ADDITIONS & ALTERATIONS

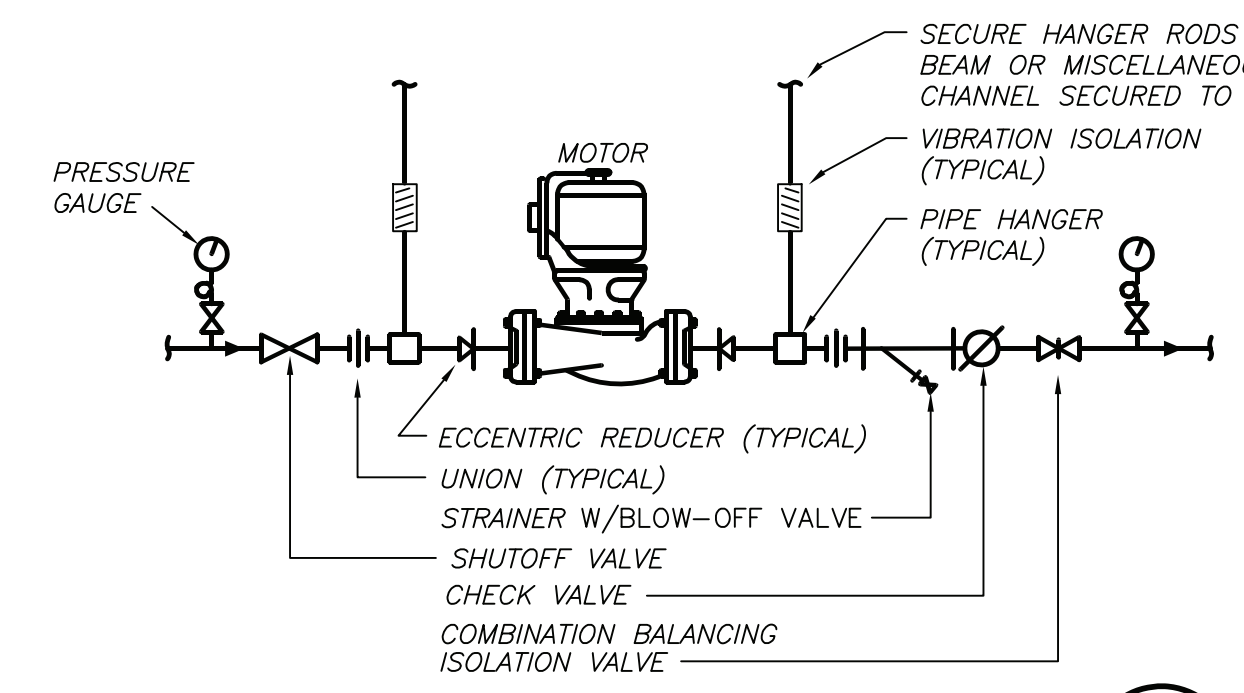


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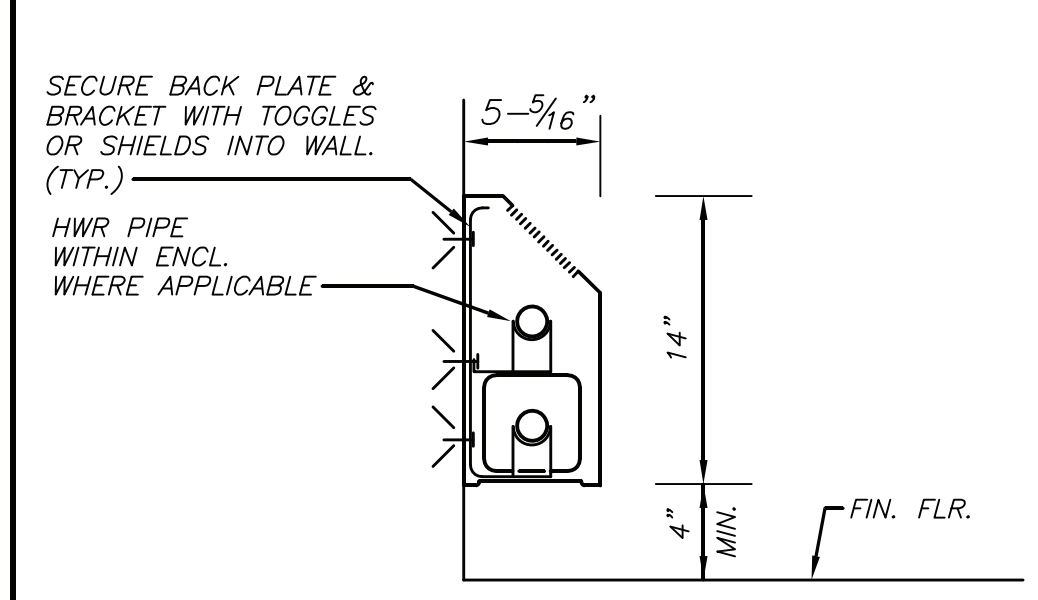
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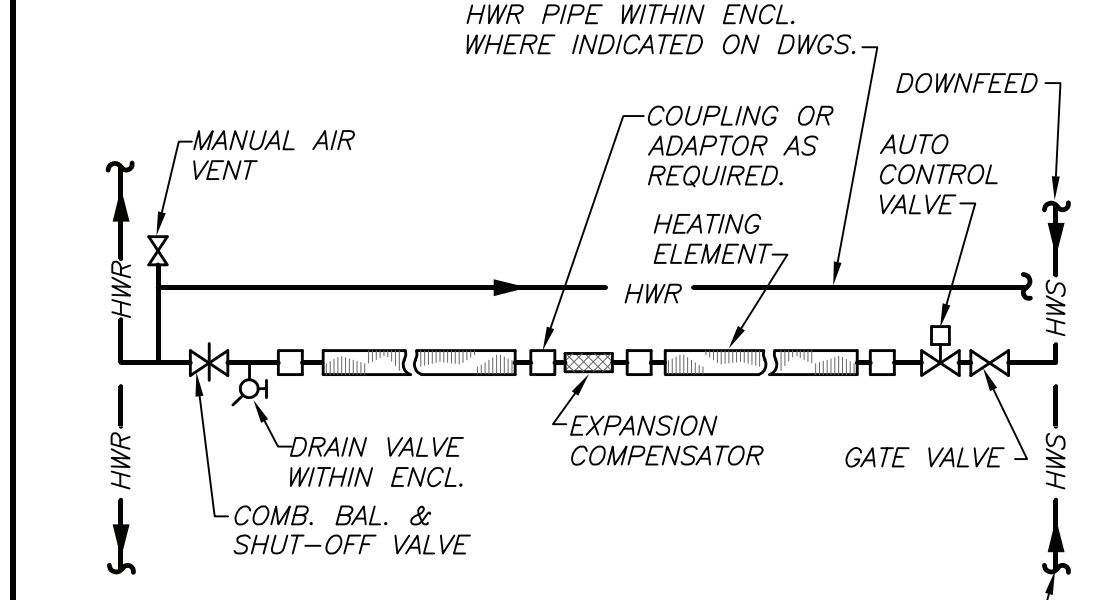
IN-LINE PUMP DETAIL (7) H401 NO SCALE



SECTION-TYPE A

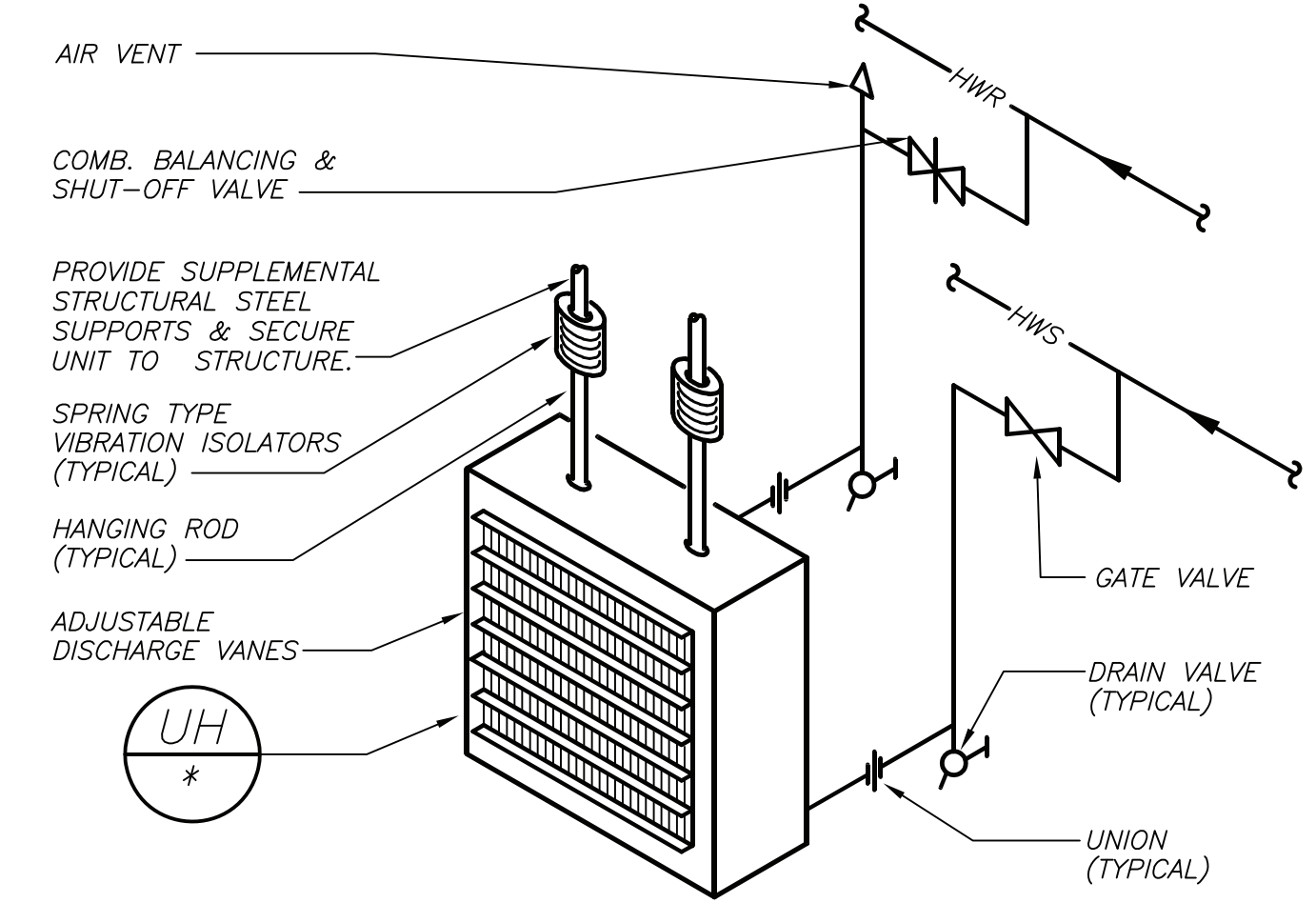
FT-* DATA
 REFER TO FLOOR PLANS FOR TYPE
 AS MANUFACTURED BY 'STERLING' SLOPING TOP- STYLE "S"
 1" COPPER PIPE 3-1/4" X 3-1/4" SQ. ALUM. FINS, 950 BTU/HR/L.F. @ 180 DEG. F. A.W.T., 50 FINS/FT.
 REFER TO FLOOR PLANS FOR LENGTH

IDENTIFICATION-TYPE A

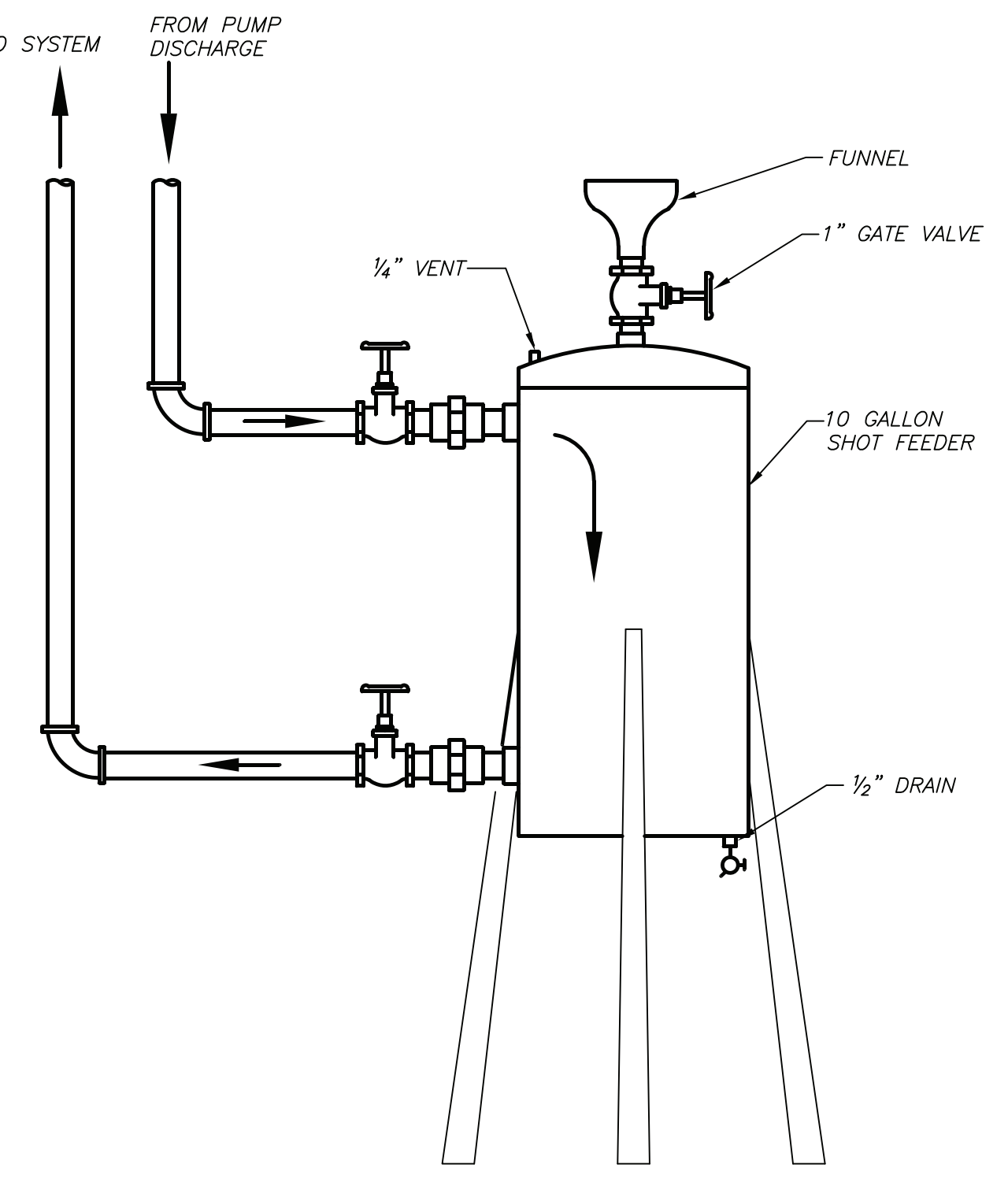


SCHEMATIC ELEVATION

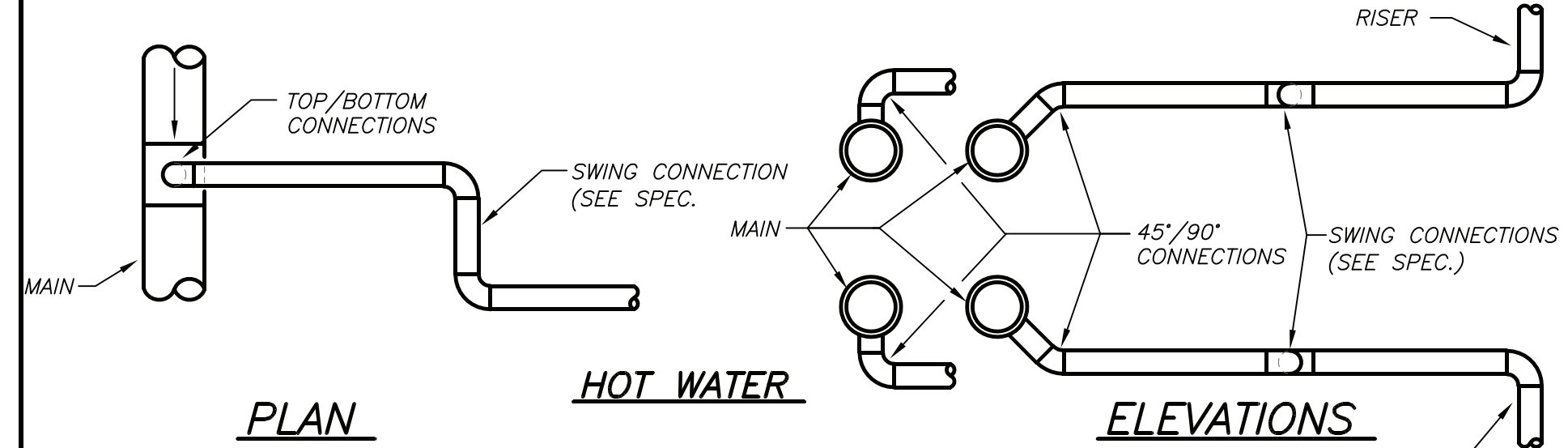
FIN TUBE RADIATION DETAIL (HOT WATER) (2) H401 NO SCALE



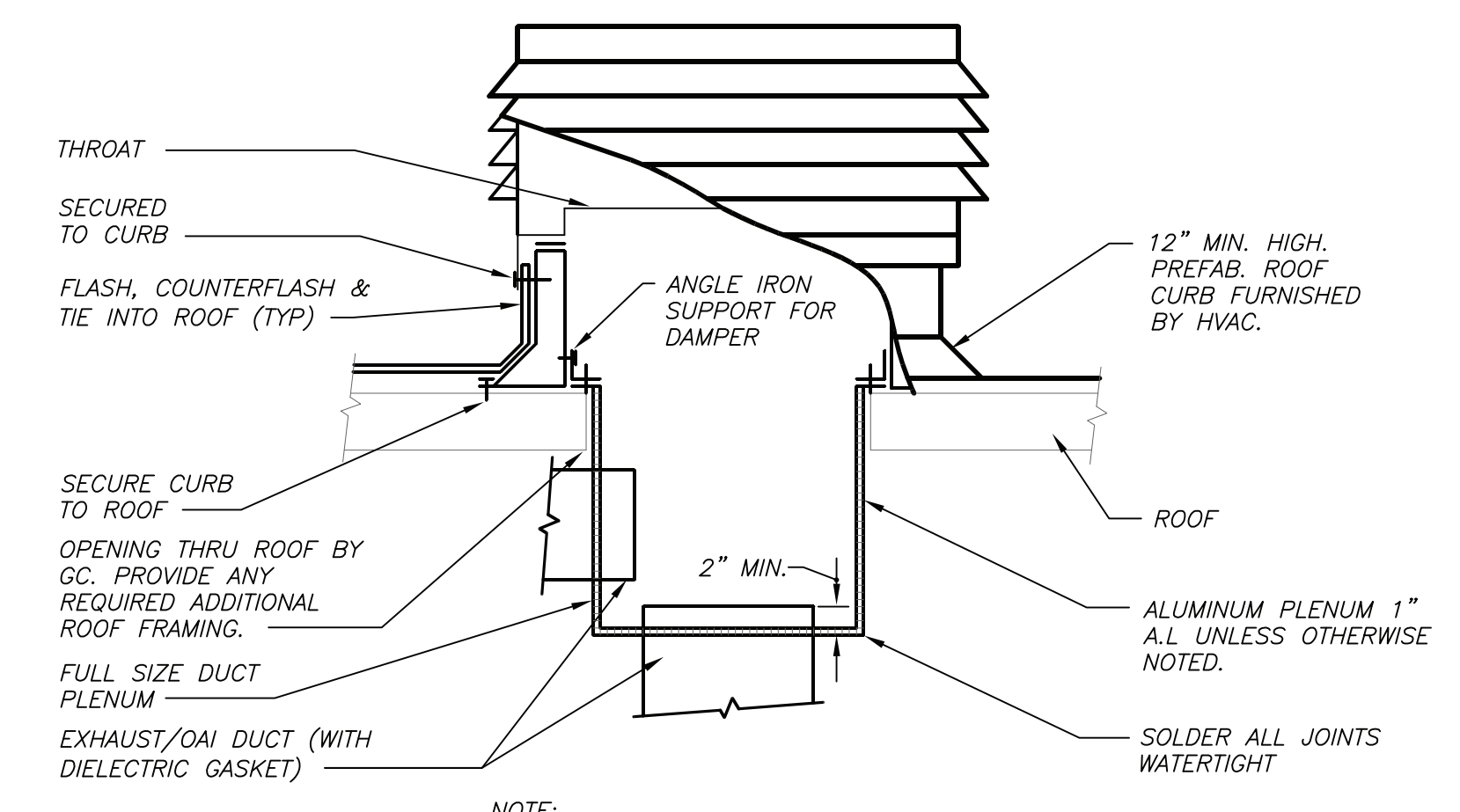
PIPING CONNECTION TO UNIT HEATER DETAIL (8) H401 NO SCALE



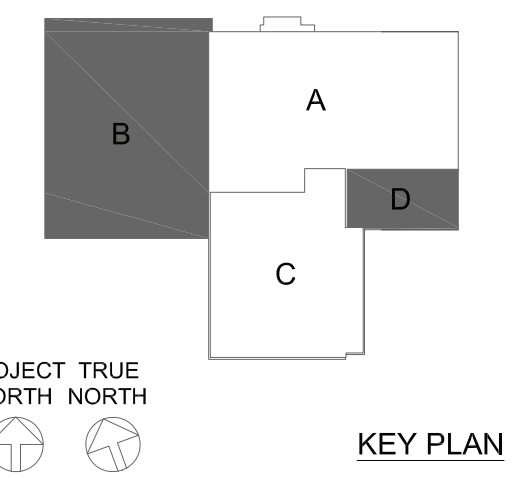
MANUAL CHEMICAL BY-PASS & FEEDER DETAIL (5) H401 NO SCALE



DETAIL OF PIPING BRANCH CONNECTION (3) H401 NO SCALE



ROOF MOUNTED AIR INTAKE/ DISCHARGE UNIT DETAIL (4) H401 NO SCALE



KEY PLAN

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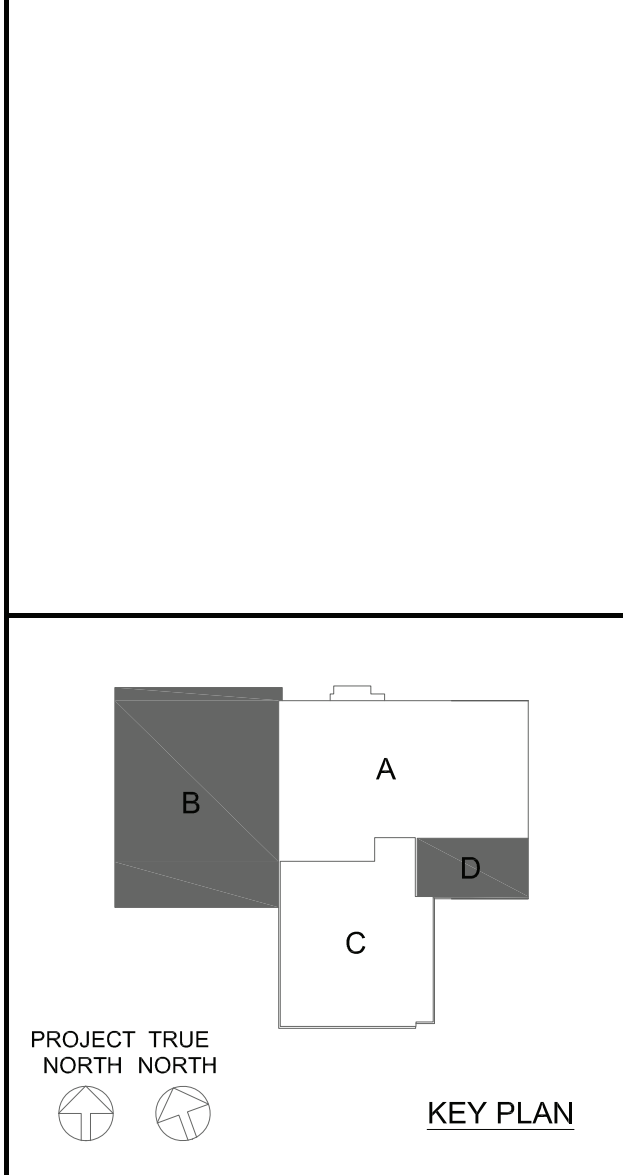
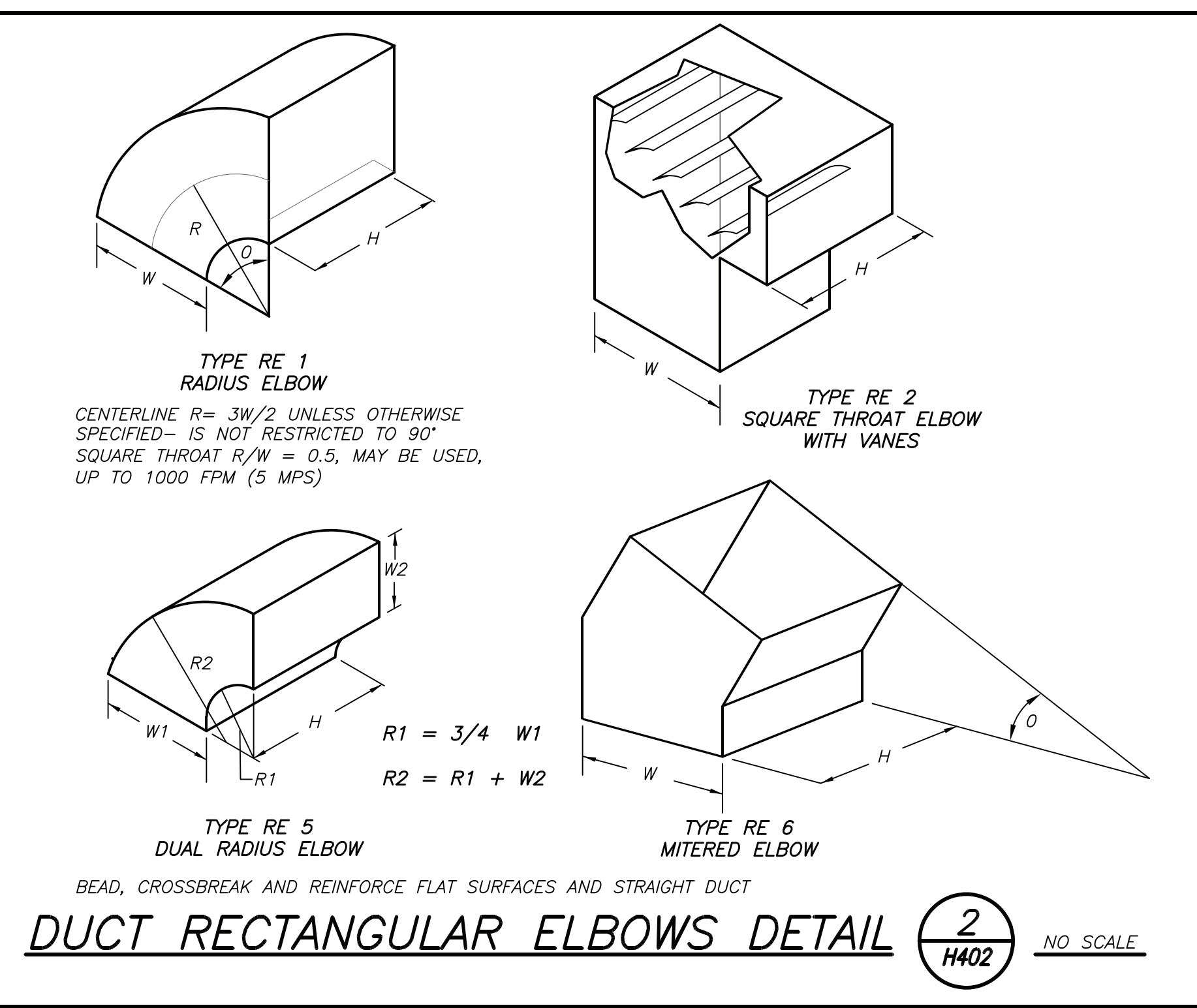
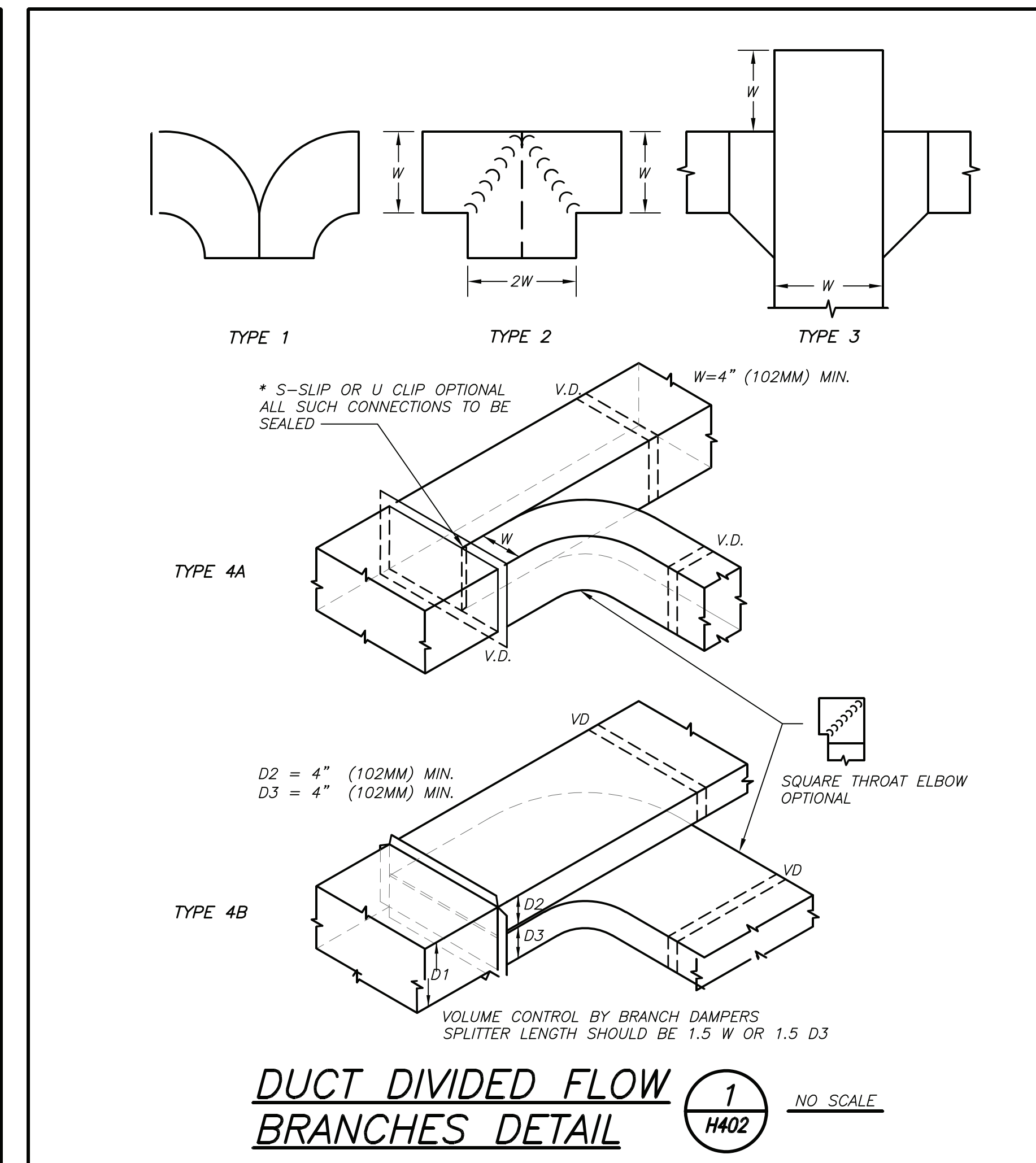
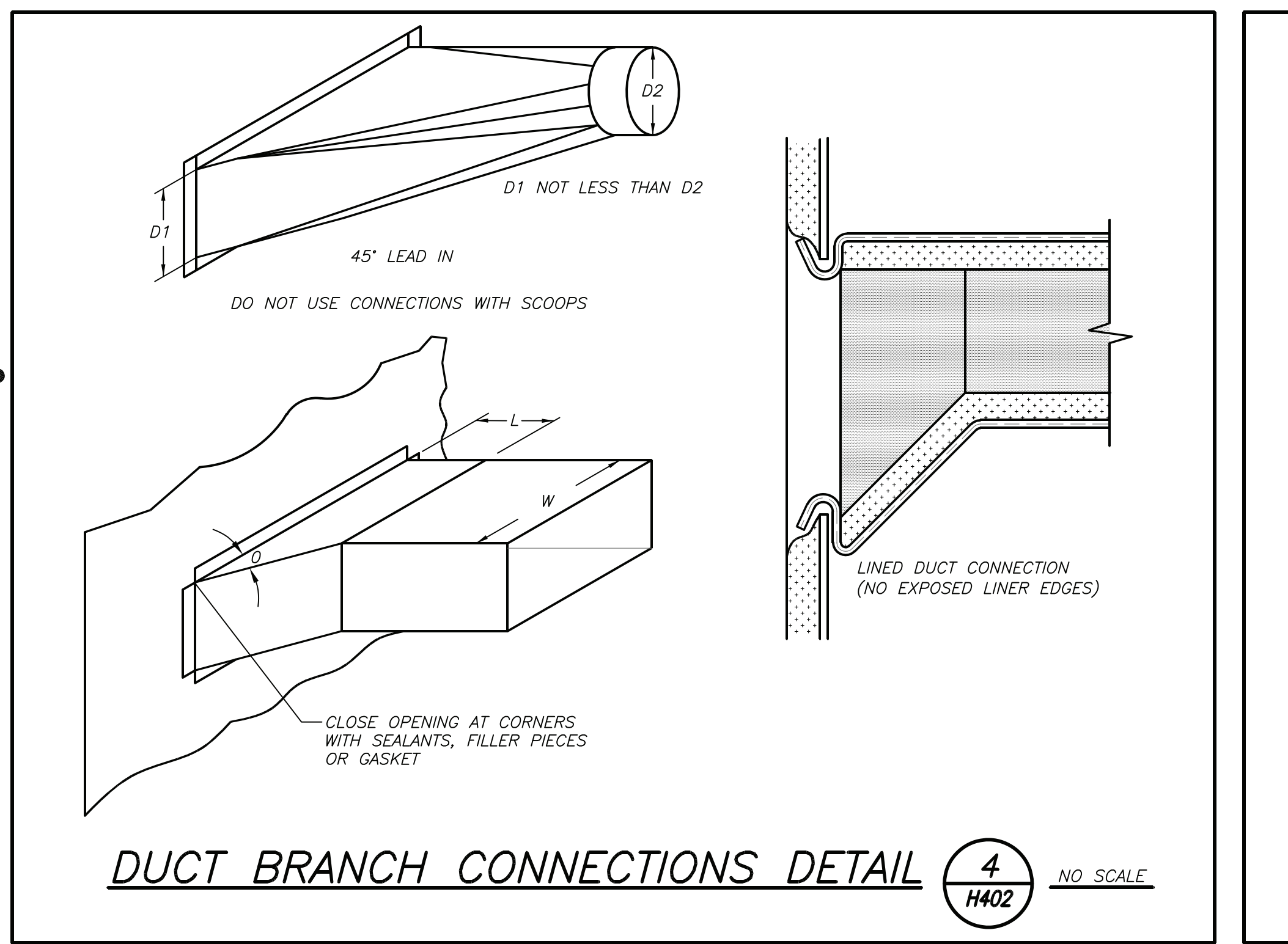
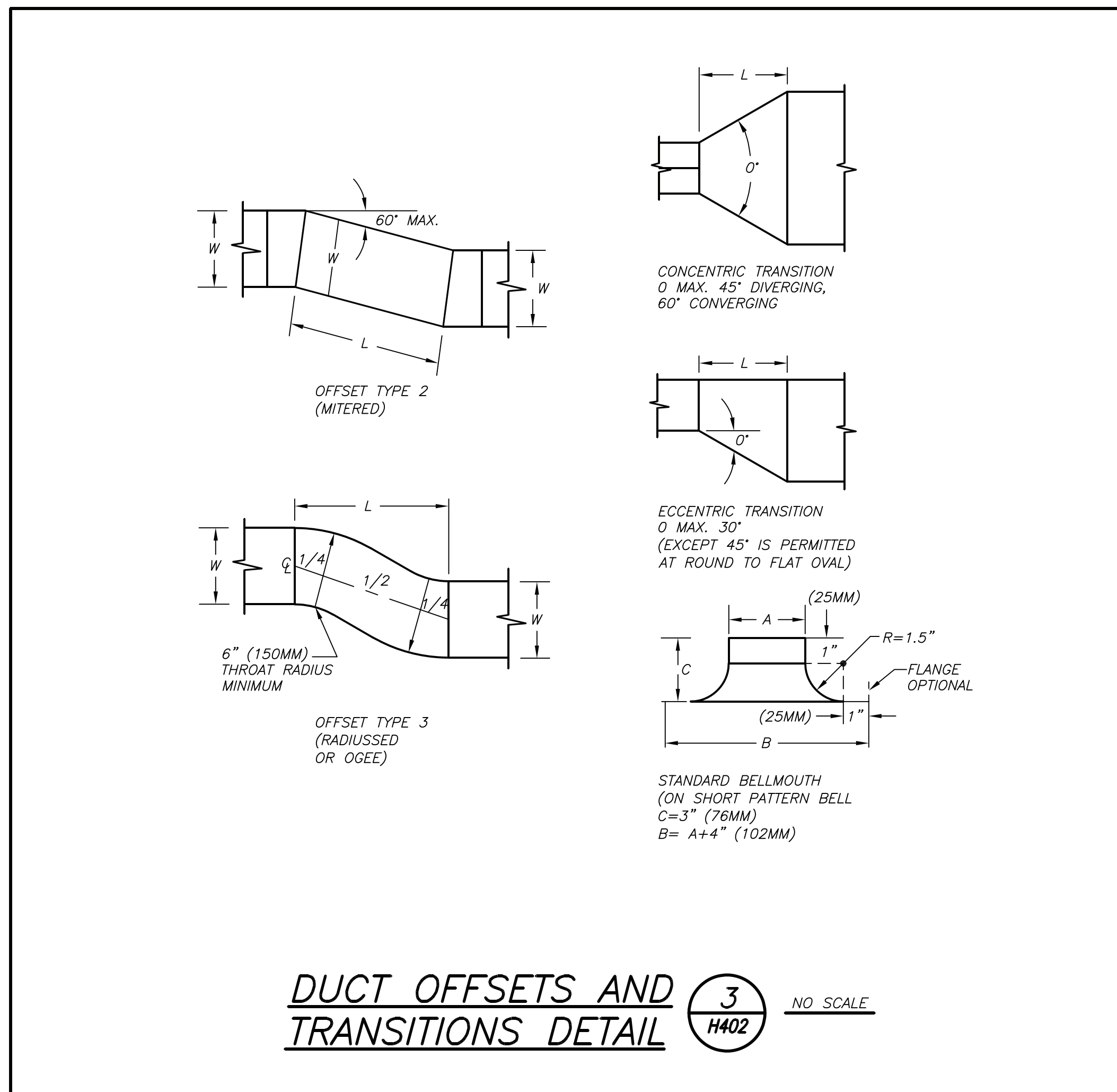
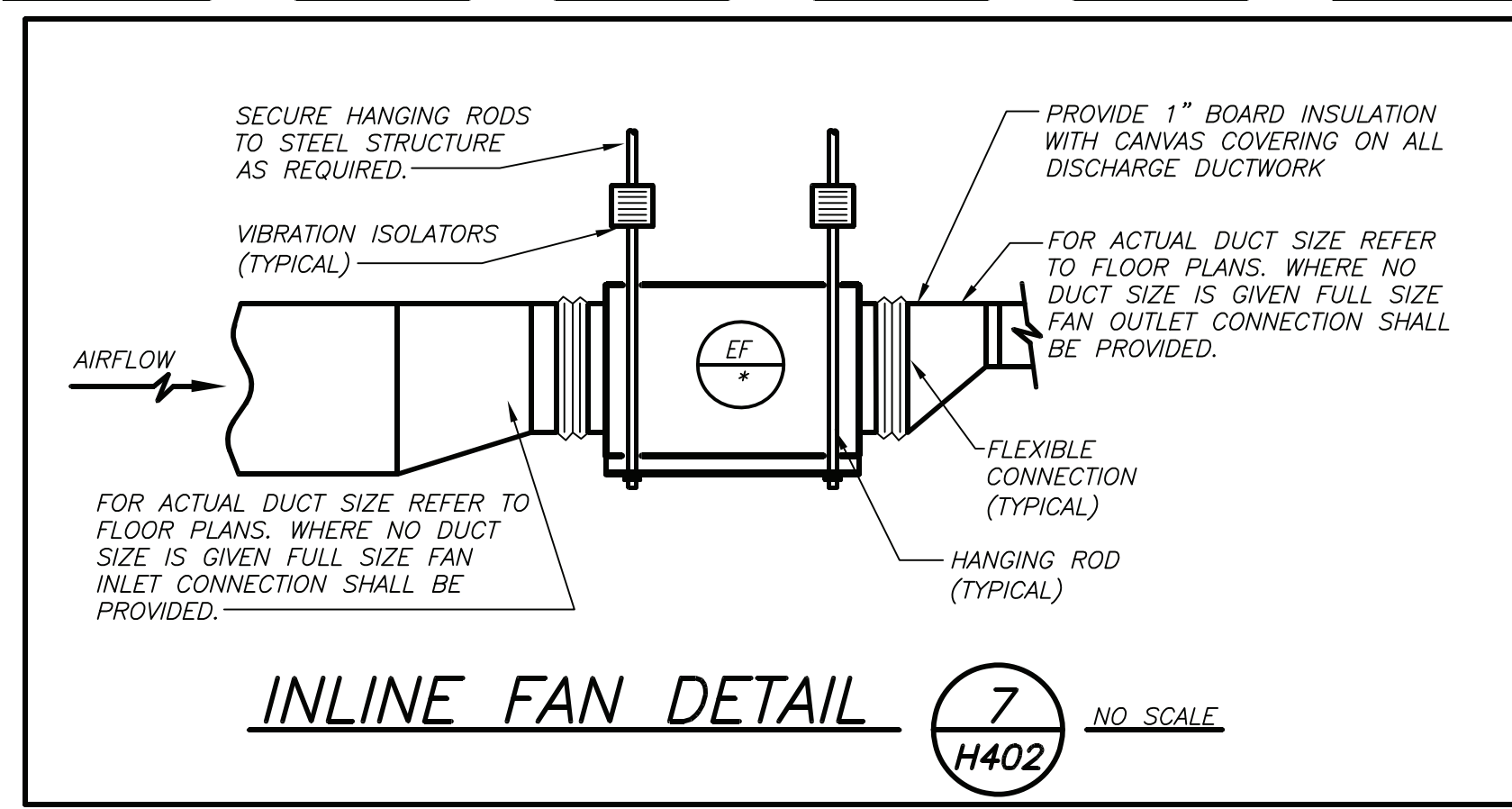
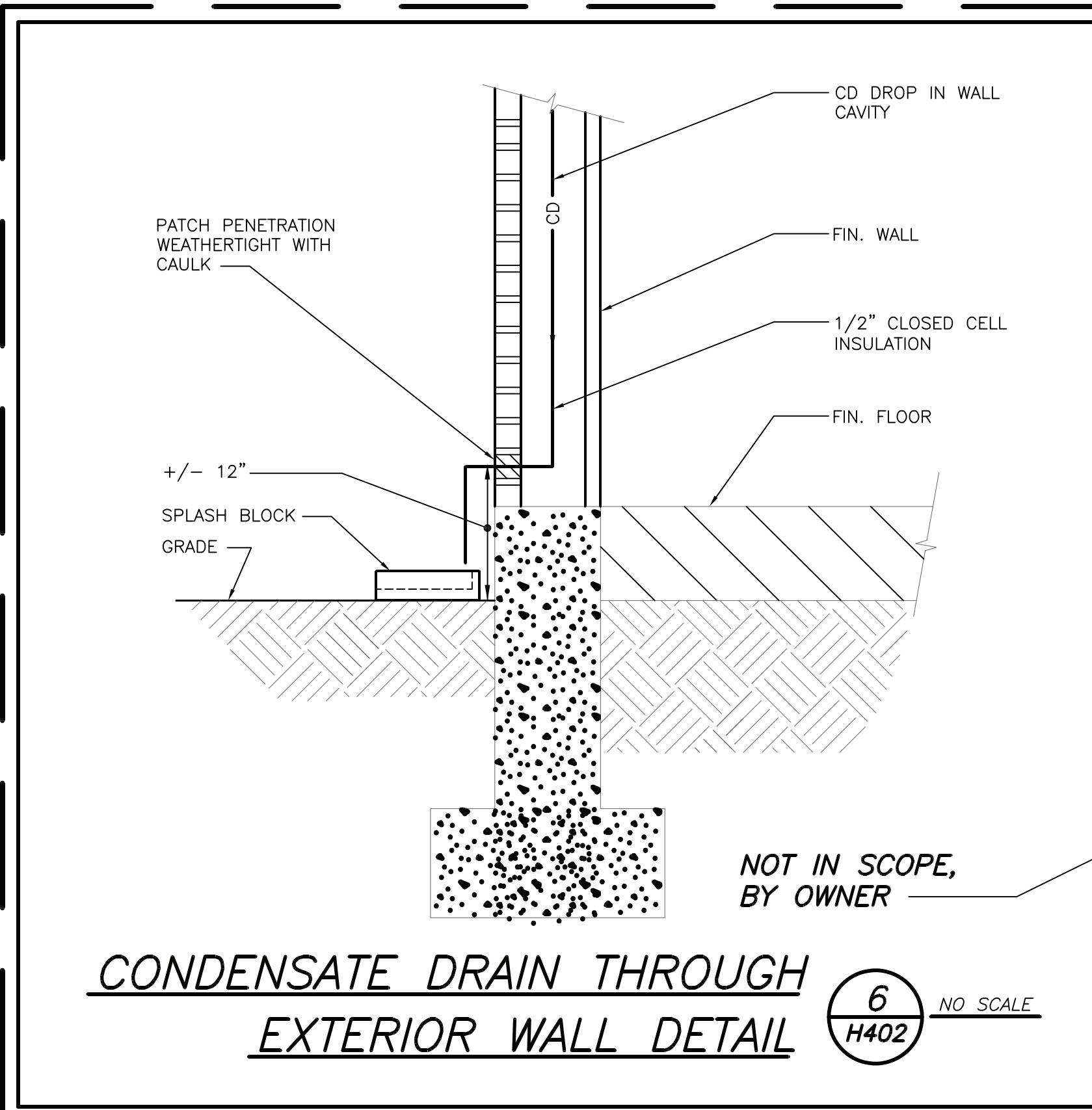
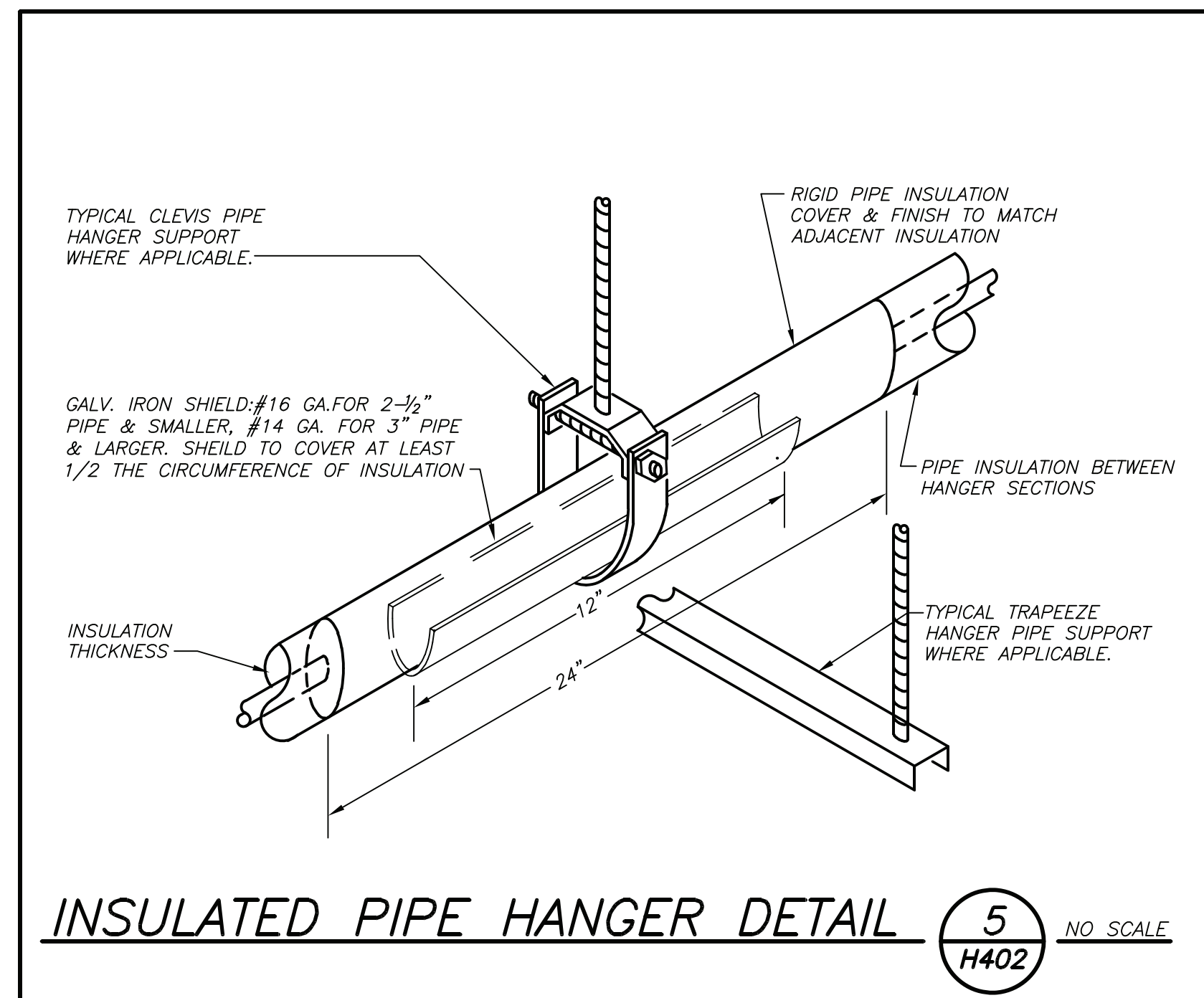


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2	11-03-2023	DESIGN DEVELOPMENT
1	07-29-2023	SCHEMATIC DESIGN

DETAILS

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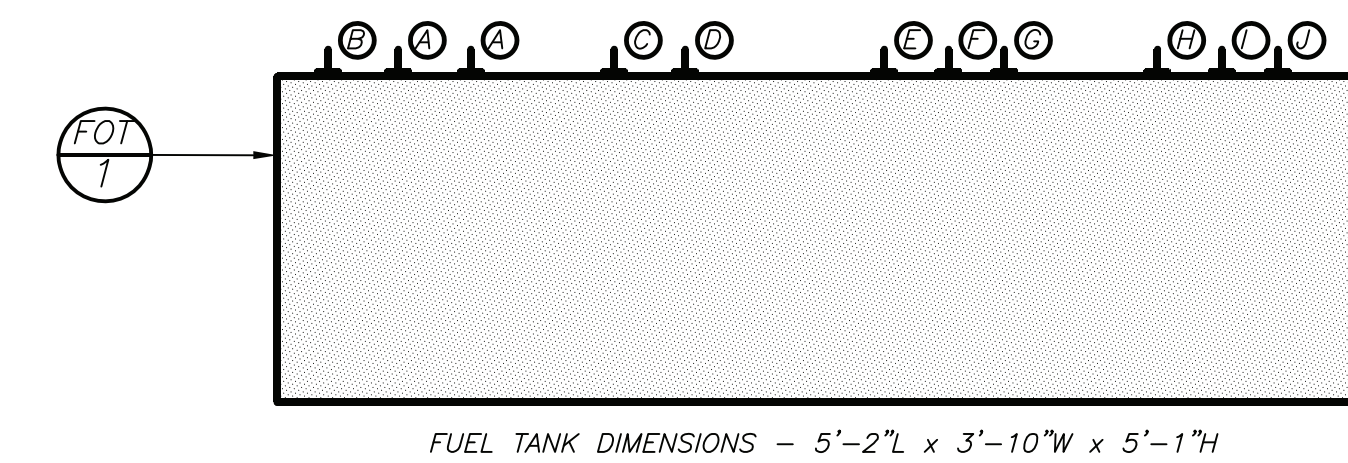
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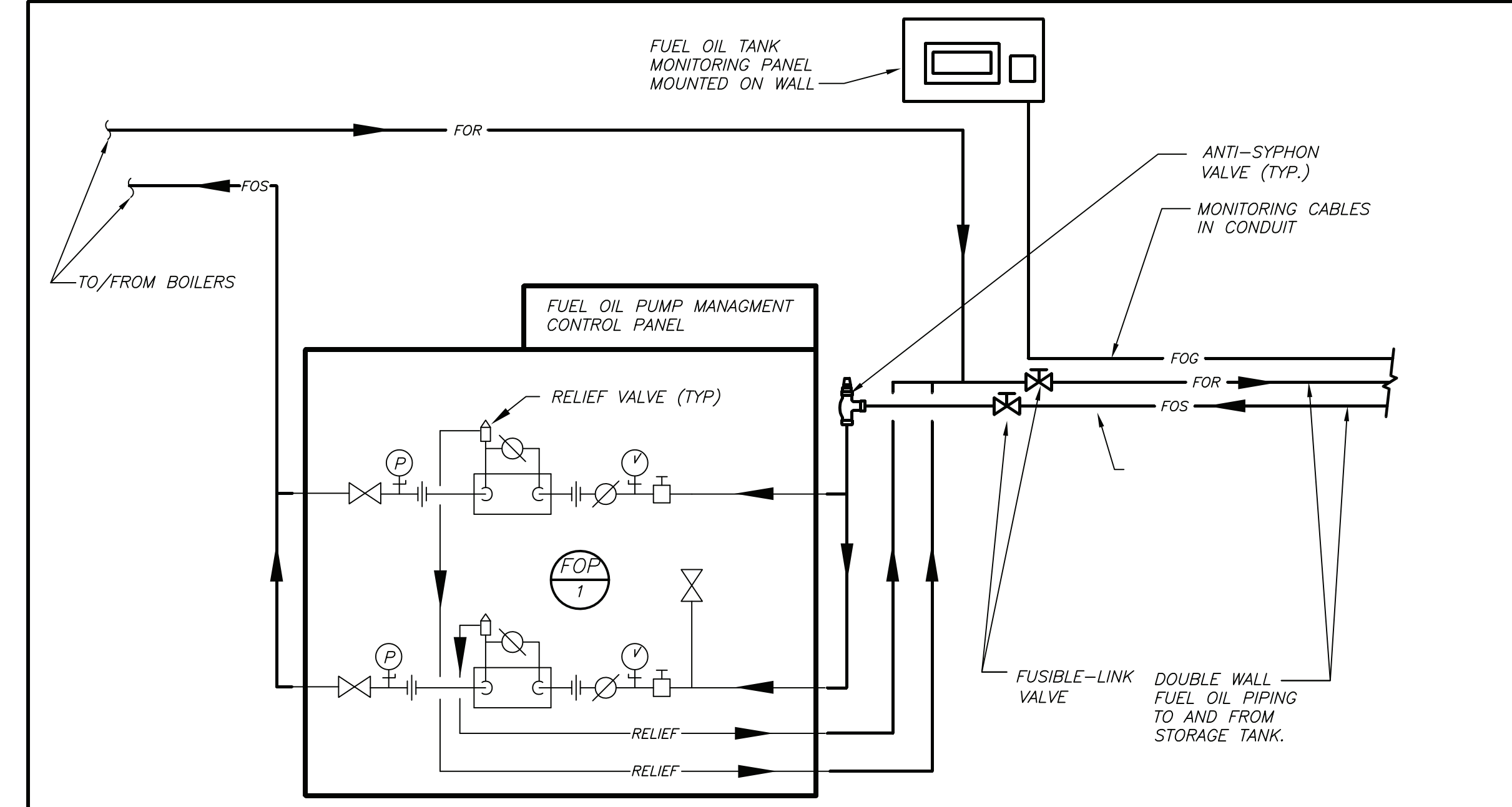
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LEGEND – FUEL OIL TANK

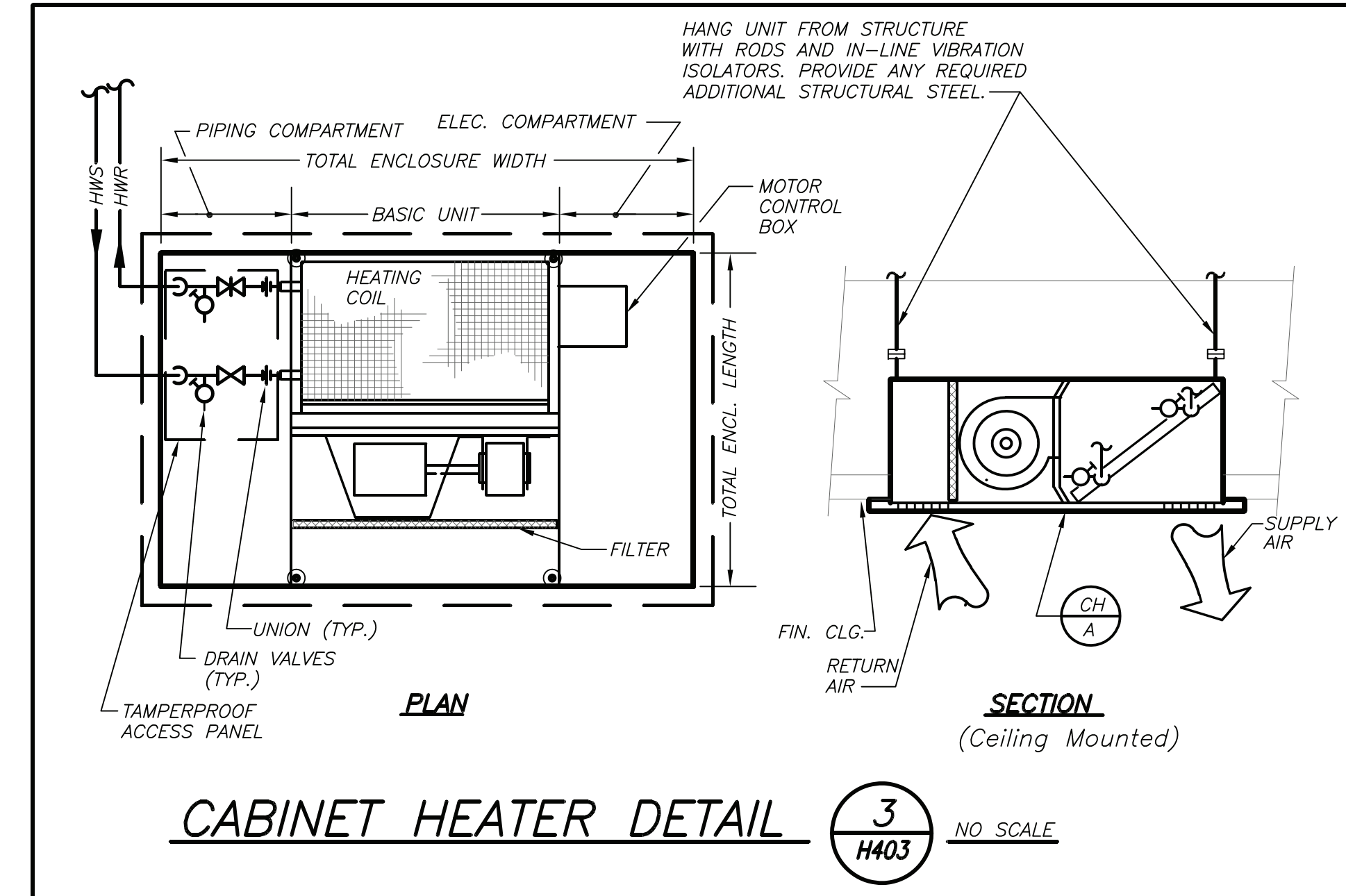
- Ⓐ 2" SPARE
- Ⓑ 2" TANK FILL W/ SPILL BOX
- Ⓒ 2" PRIMARY TANK WORKING VENT
- Ⓓ 2" MECH GAUGE/SPARE
- Ⓔ 4" PRIMARY TANK EMERGENCY VENT
- Ⓕ 2" RETURN
- Ⓖ 2" SUPPLY
- Ⓗ 4" SECONDARY CONTAINMENT EMERGENCY VENT
- Ⓘ 2" SECONDARY MONITOR PORT
- Ⓚ 2" SECONDARY WORKING VENT



ABOVE GRADE DOUBLE WALL FUEL OIL TANK DETAIL 1 H403 NO SCALE



FUEL OIL PUMP SET PIPING DETAIL 2 H403 NO SCALE



CABINET HEATER DETAIL 3 H403 NO SCALE

FIREHOUSE ADDITIONS & ALTERATIONS

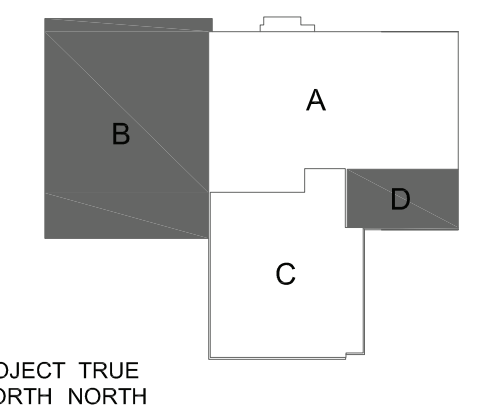


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PROJECT TRUE NORTH NORTH
KEY PLAN

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**FIREHOUSE
ADDITIONS & ALTERATIONS**

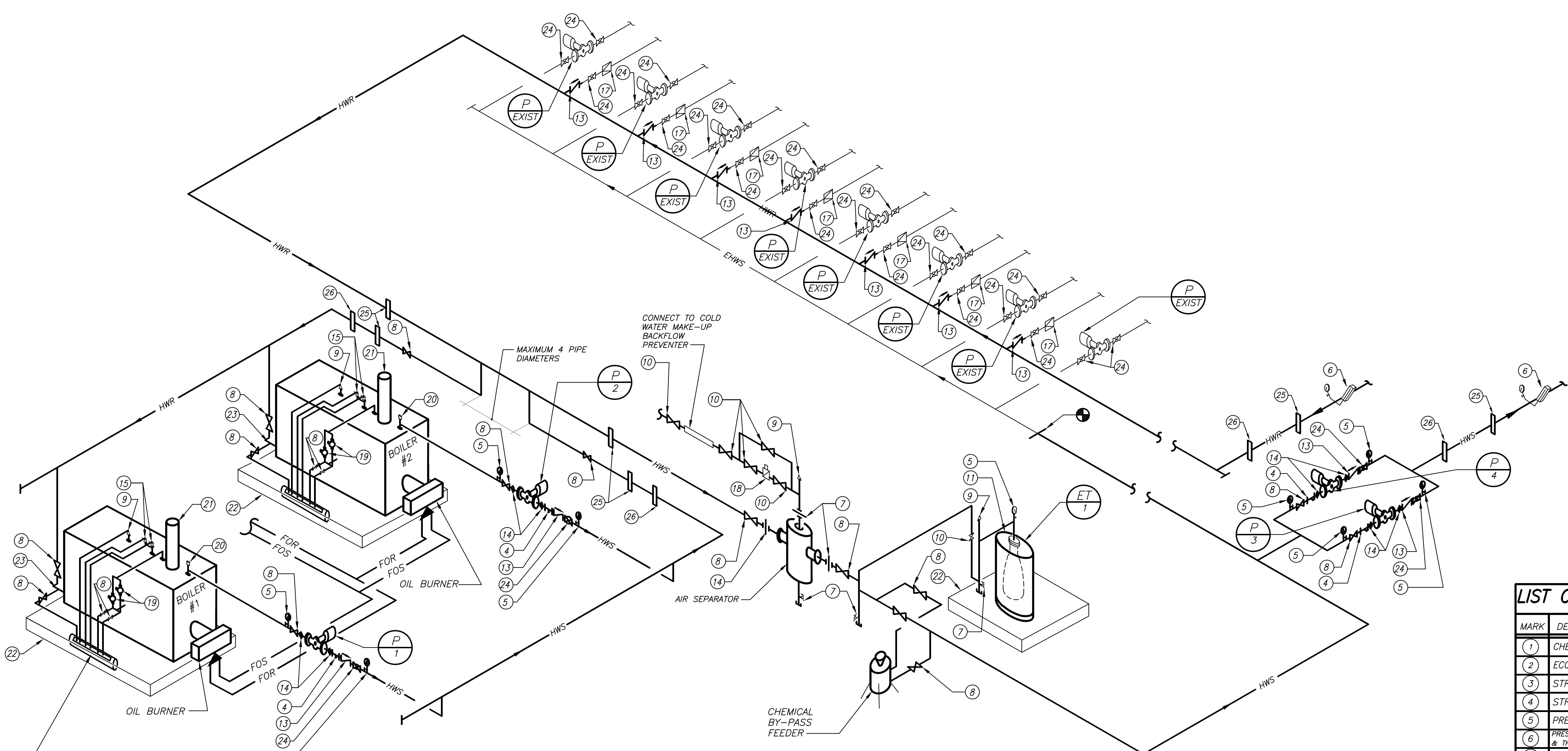


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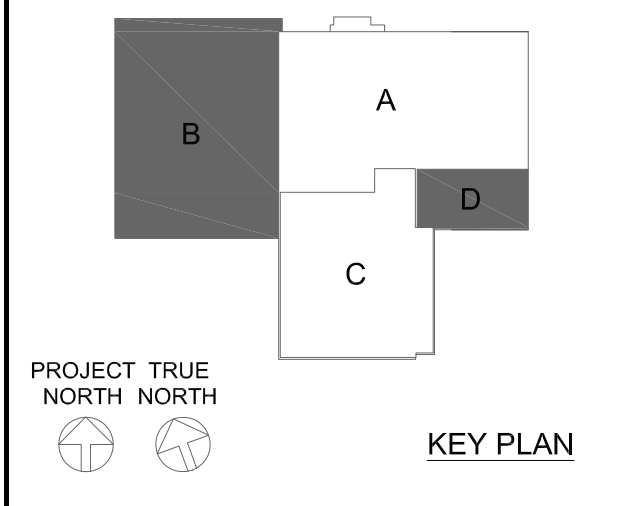


TROUGH DRAIN, 8"Ø PIPE, 36" LONG WITH 4" WIDE OPEN SLOT 30" LONG IN TOP. ENDS TO BE SAFFED OFF. 4" OUTLET IN BOTTOM CAULKED IN TO 4" C.I. HUB. COORDINATE WITH FIELD CONDITIONS (TYPICAL FOR TWO (2))

BOILER SCHEMATIC HEATING PIPING DIAGRAM 1 H404 NO SCALE

LIST OF APPURTENANCES

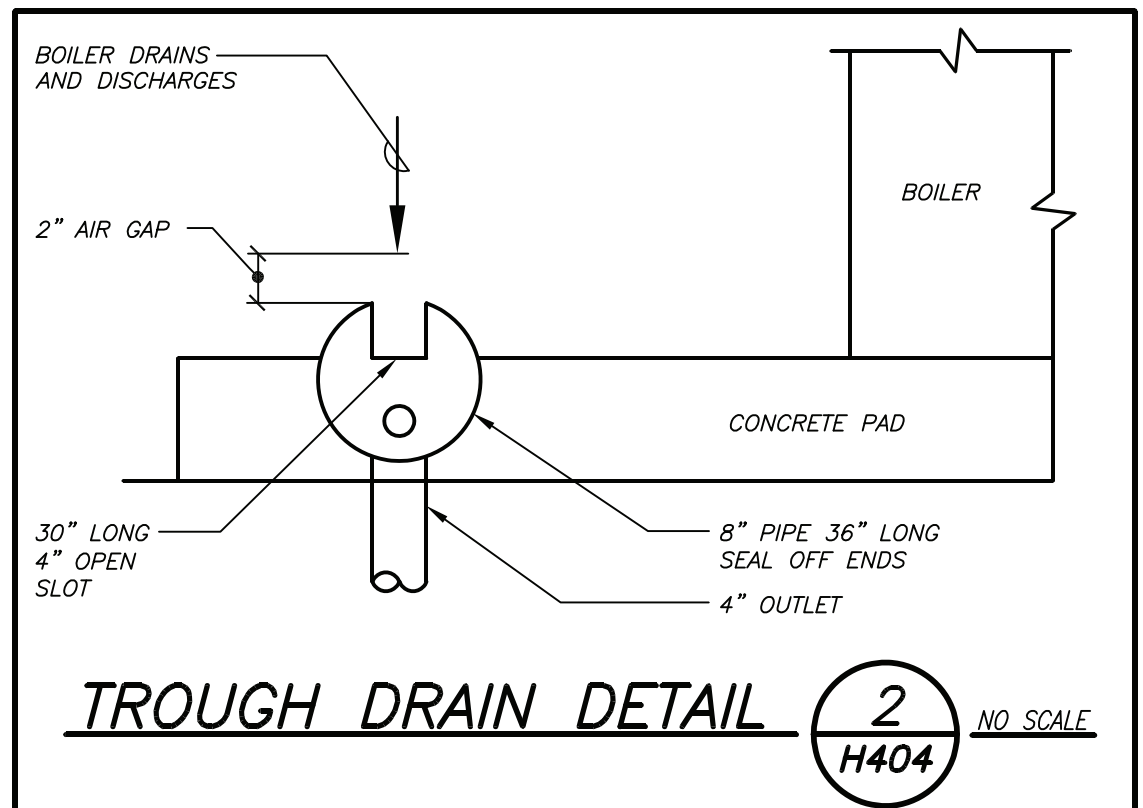
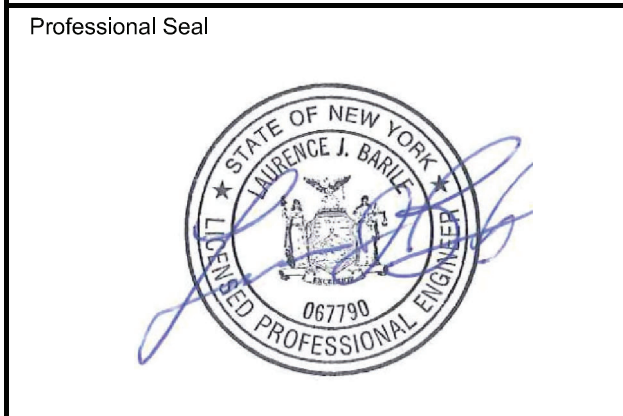
MARK	DESCRIPTION
1	CHECK VALVE
2	ECCENTRIC REDUCER
3	STRAINER WITH BLOW-OFF VALVE
4	STRAINER WITH BLOW-OFF VALVE
5	PRESSURE GAUGE (WITH SHUT-OFF COCK)
6	PRESSURE GAUGE (WITH SHUT-OFF COCK) & THERMOMETER
7	DRAIN VALVE WITH HOSE END CONNECTION
8	GATE VALVE (WITH CHAIN OPERATOR FOR UNREACHABLE LOCATIONS)
9	AUTOMATIC AIR VENT
10	BALL VALVE
11	PRESSURIZED EXPANSION TANK
12	CONDENSATE DRAIN
13	CHECK VALVE
14	UNION CONNECTION
16	PRESS./TEMP. RELIEF VALVE
17	EXISTING FLOW CONTROL
18	BRONZE BODY MAKE-UP WATER PRESSURE REGULATOR W/ BUILT IN CHECK VALVE
19	LOW WATER CUT OUT - REFER TO SPECIFICATION
20	HI LIMIT CONTROL
21	FLUE OUTLET
22	HOUSEKEEPING PAD BY GC
23	BOILER DRAIN (PIPE TO TROUGH DRAIN)
24	COMBINATION BALANCING/SHUT-OFF VALVE
25	HEADER TEMPERATURE SENSOR
26	DIFFERENTIAL PRESSURE SENSOR (VFD)



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TROUGH DRAIN DETAIL 2 H404 NO SCALE

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