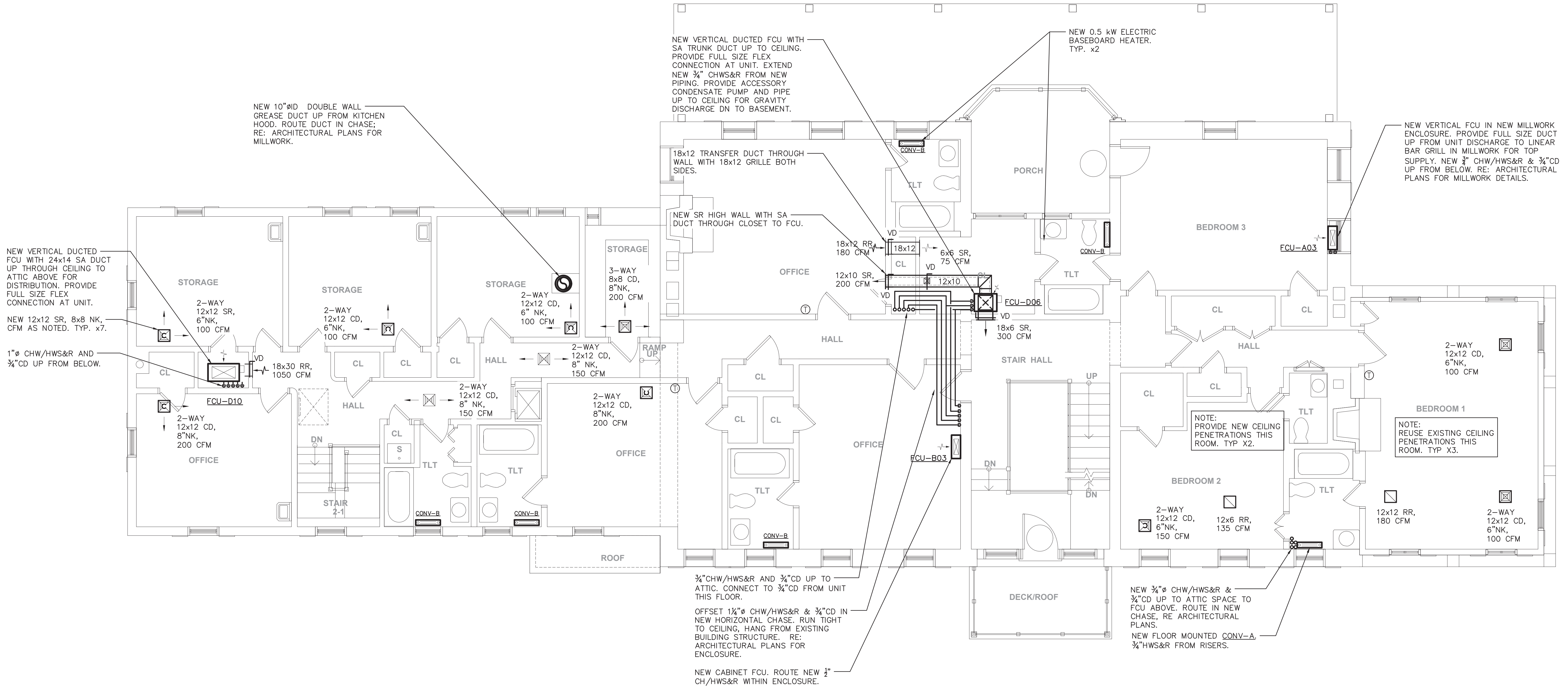


1 MECHANICAL FIRST FLOOR NEW WORK PLAN
SCALE: 1/4" = 1'-0"

- DEMOLITION AND NEW WORK NOTES:**
- REMOVE EXISTING STEAM RADIATORS AS REQUIRED TO FACILITATE THE INSTALLATION OF NEW RECESSED FAN COIL UNITS. CUT & CAP ALL EXISTING STEAM AND CONDENSATE BRANCH PIPING INSIDE WALL RECESS. ALL OTHER RADIATORS SHALL BE ABANDONED IN PLACE.
 - COORDINATE ALL NEW FLOOR CORES & OPENINGS WITH ARCHITECTURAL DWG A15.

	LA ROCCA GREENE ARCHITECTS, LLC 22 PURCHASE STREET RYE, NEW YORK 10580	OLA CONSULTING ENGINEERS 50 BROADWAY 2ND FLOOR HAWTHORNE, NY 10532		
	ENVIRONMENTAL MAINTENANCE CONTRACTORS 5 ANDERSON LANE GOLDEN BRIDGE, NY 10526	WATSKY ASSOCIATES ROOF CONSULTANTS 20 MADISON AVENUE VALHALLA, NY 10595		
11/6/20		100% SUBMISSION		
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
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CONTRACTOR		PROJECT COORDINATOR		
NAME	SIGNATURE	NAME	SIGNATURE	DATE
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		LASDON PARK MAIN HOUSE RENOVATIONS MECHANICAL FIRST FLOOR NEW WORK PLAN		
CONTRACT NUMBER 16-529		SHEET NUMBER M2.2		SHEET NO. 41 OF 72
SCALE: AS NOTED DATE: 6/5/20 DPW FILE NO.		REV. NO. 91-05-M-115-0		

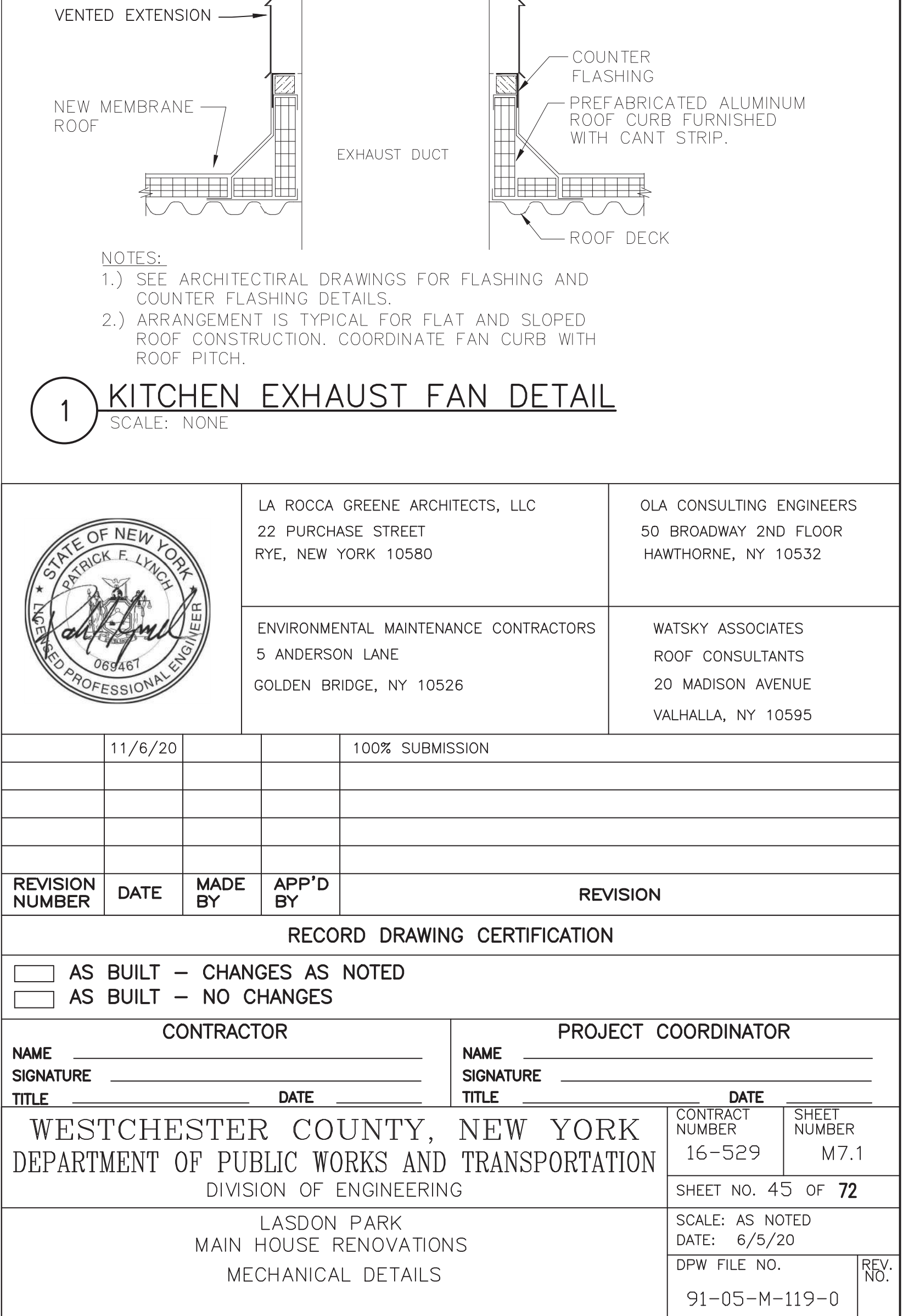
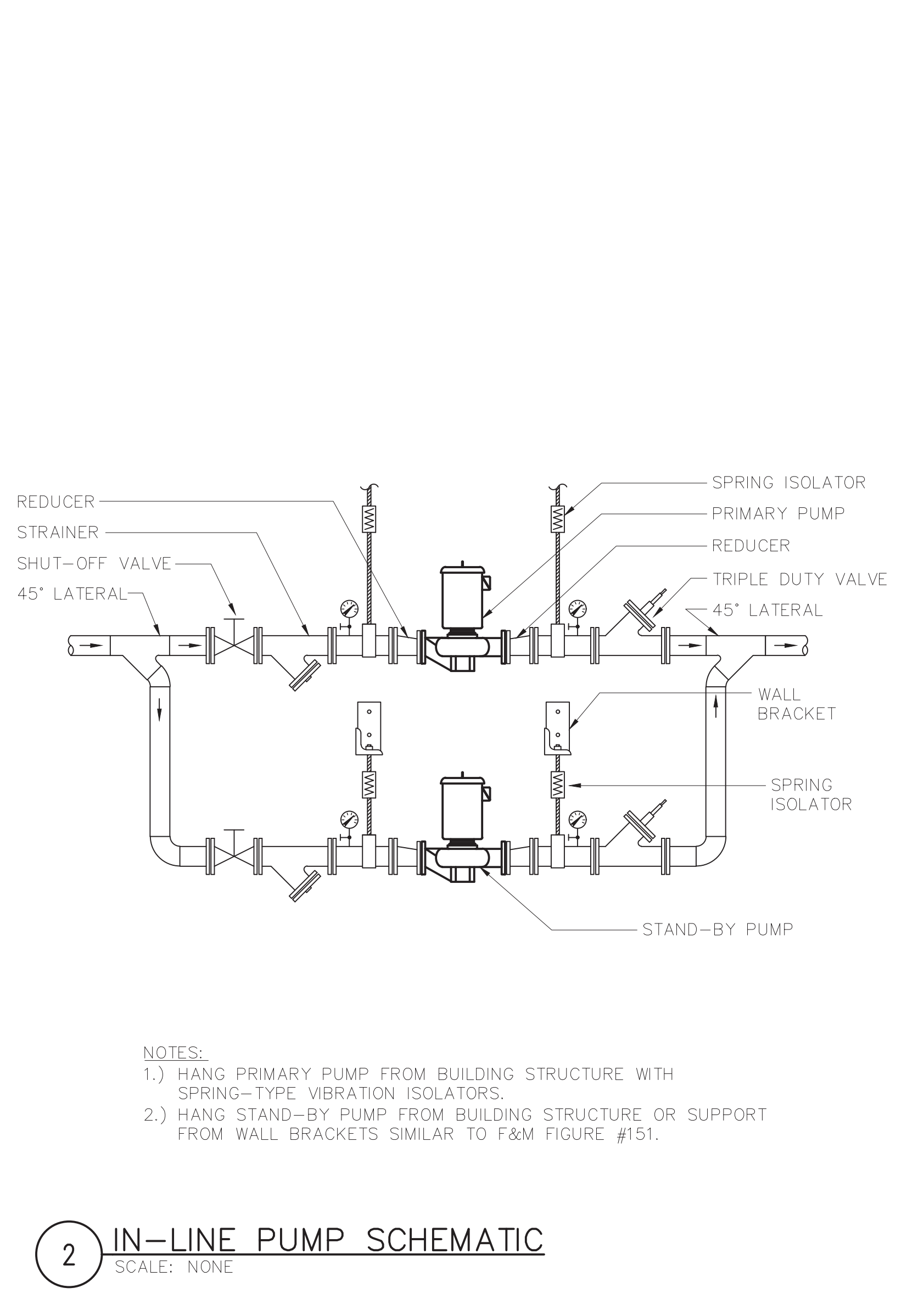
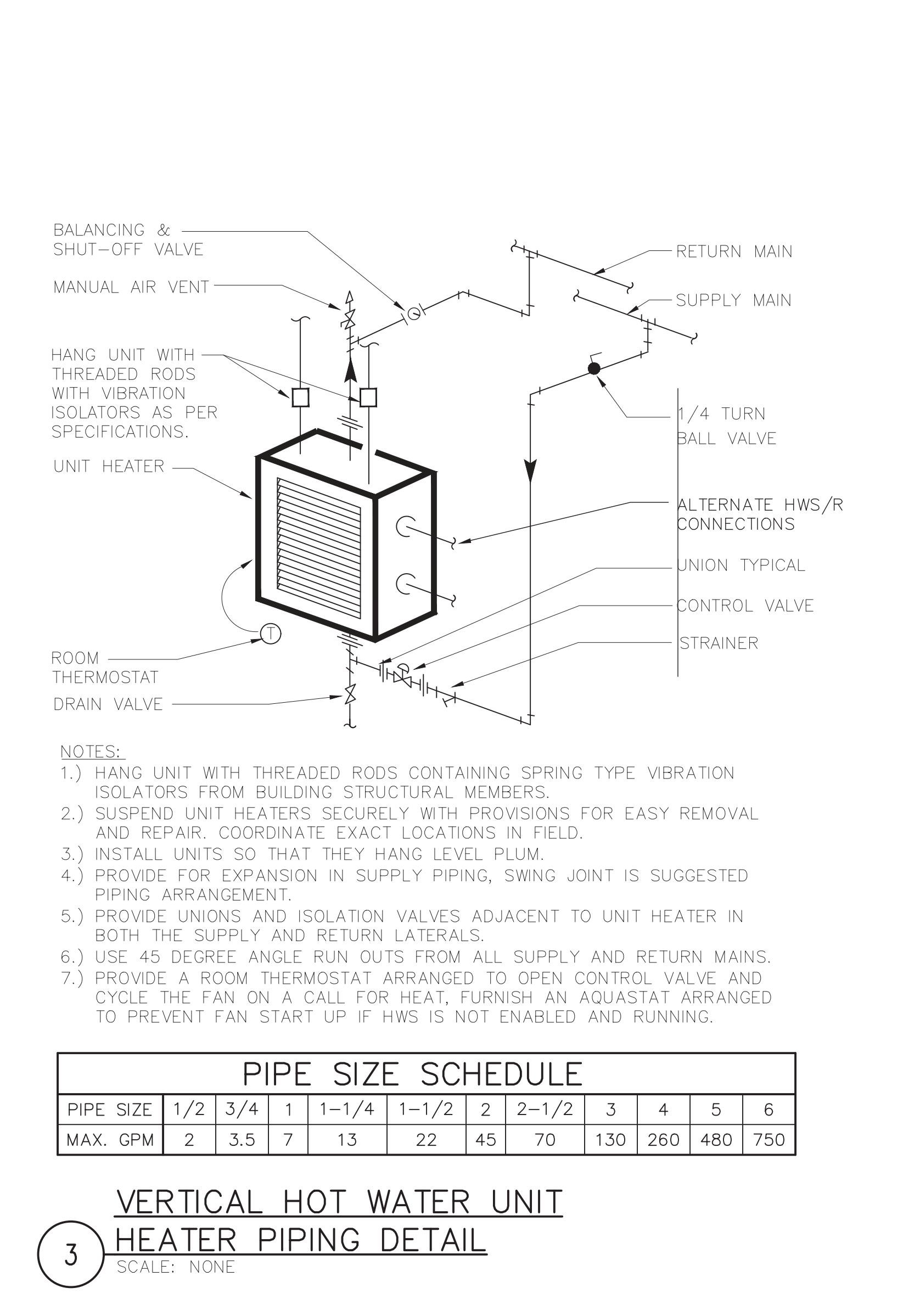
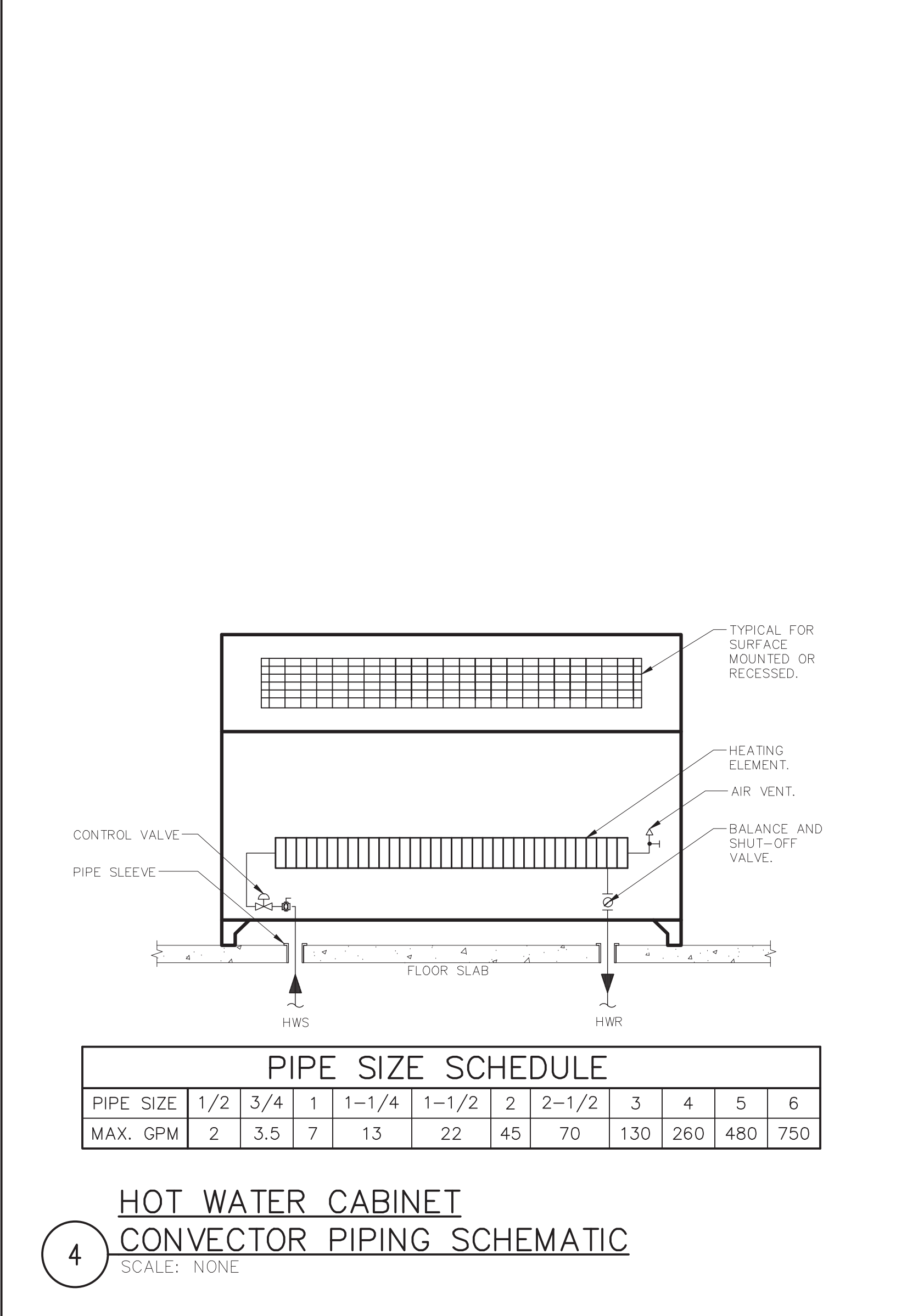
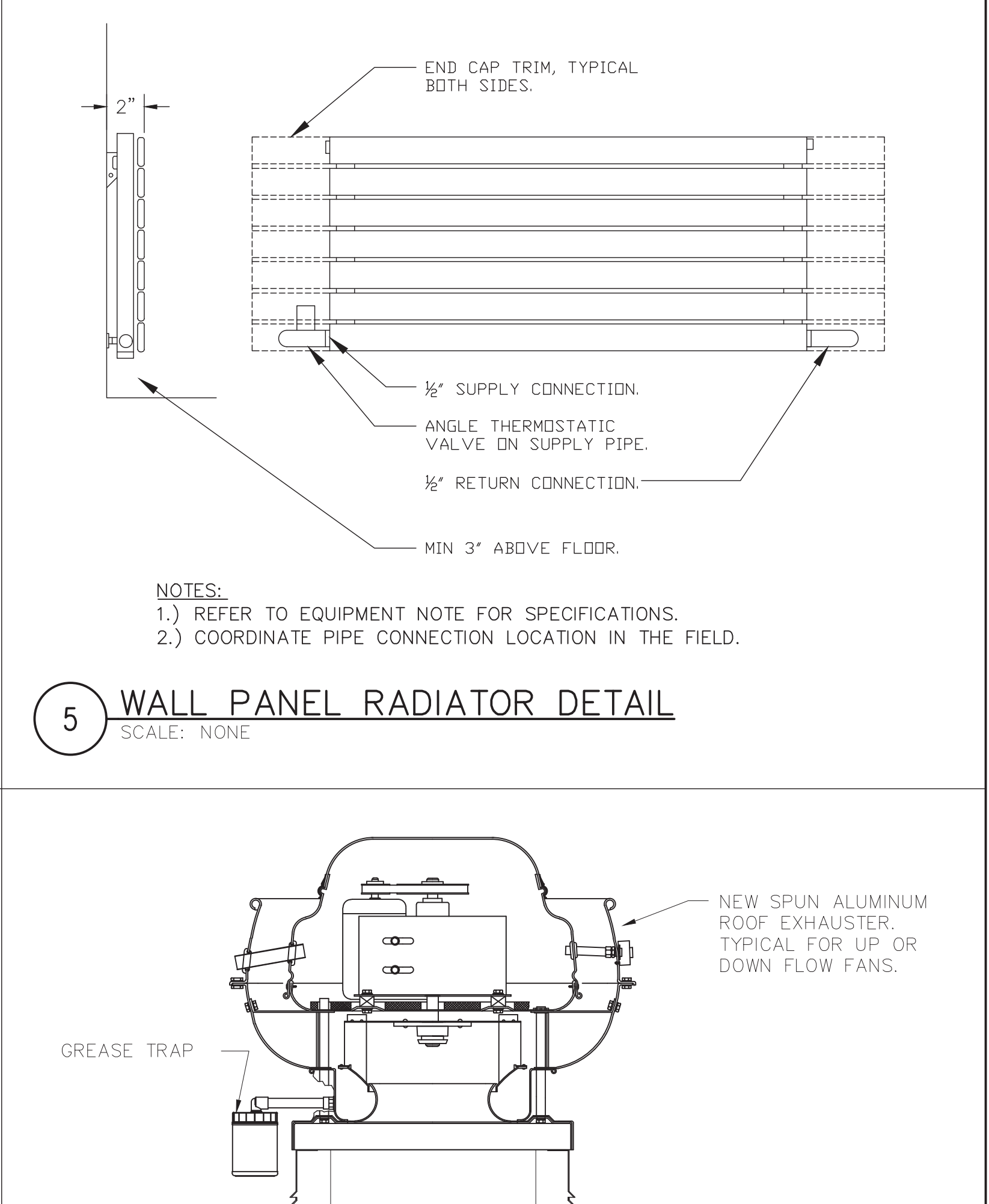
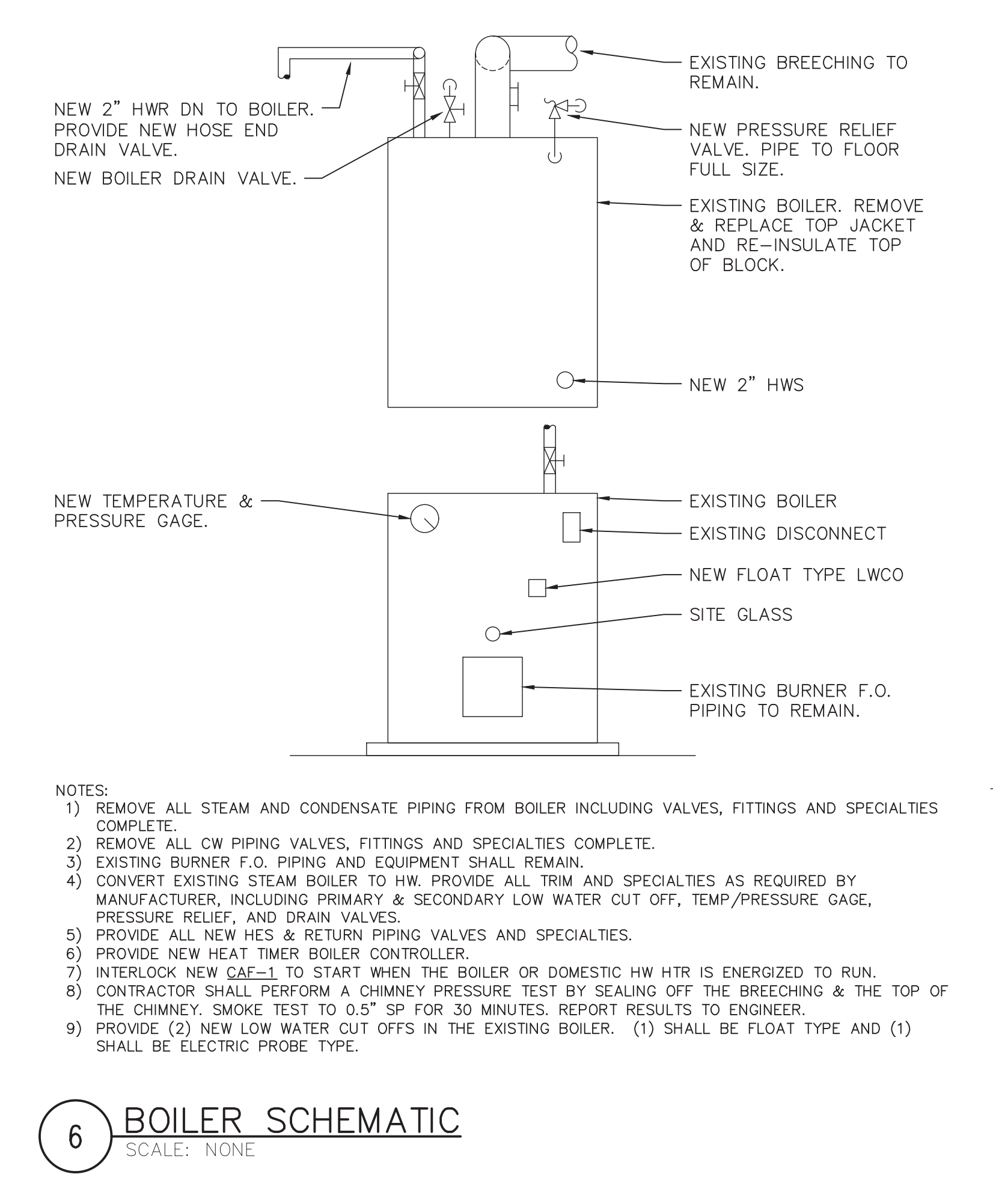
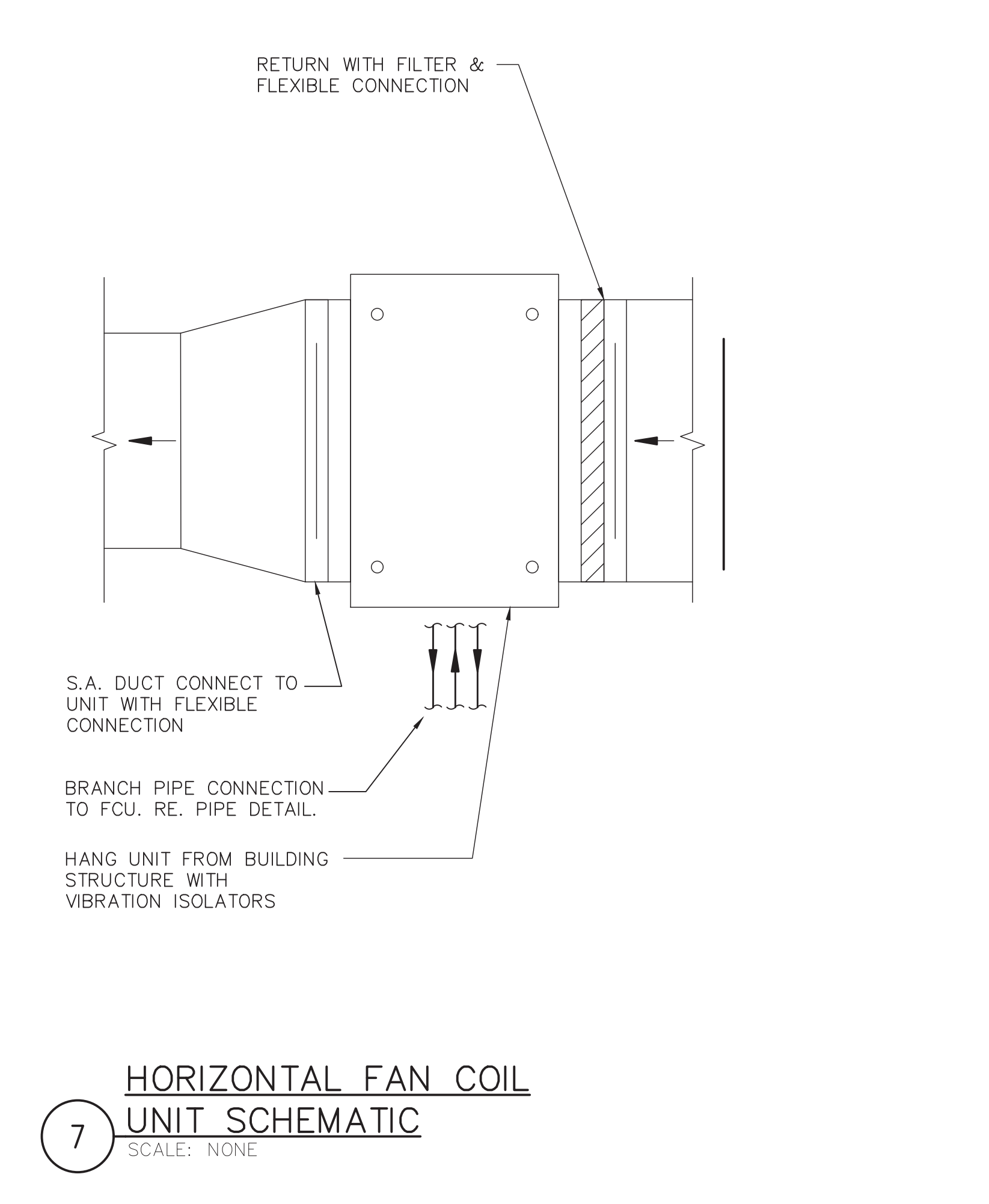
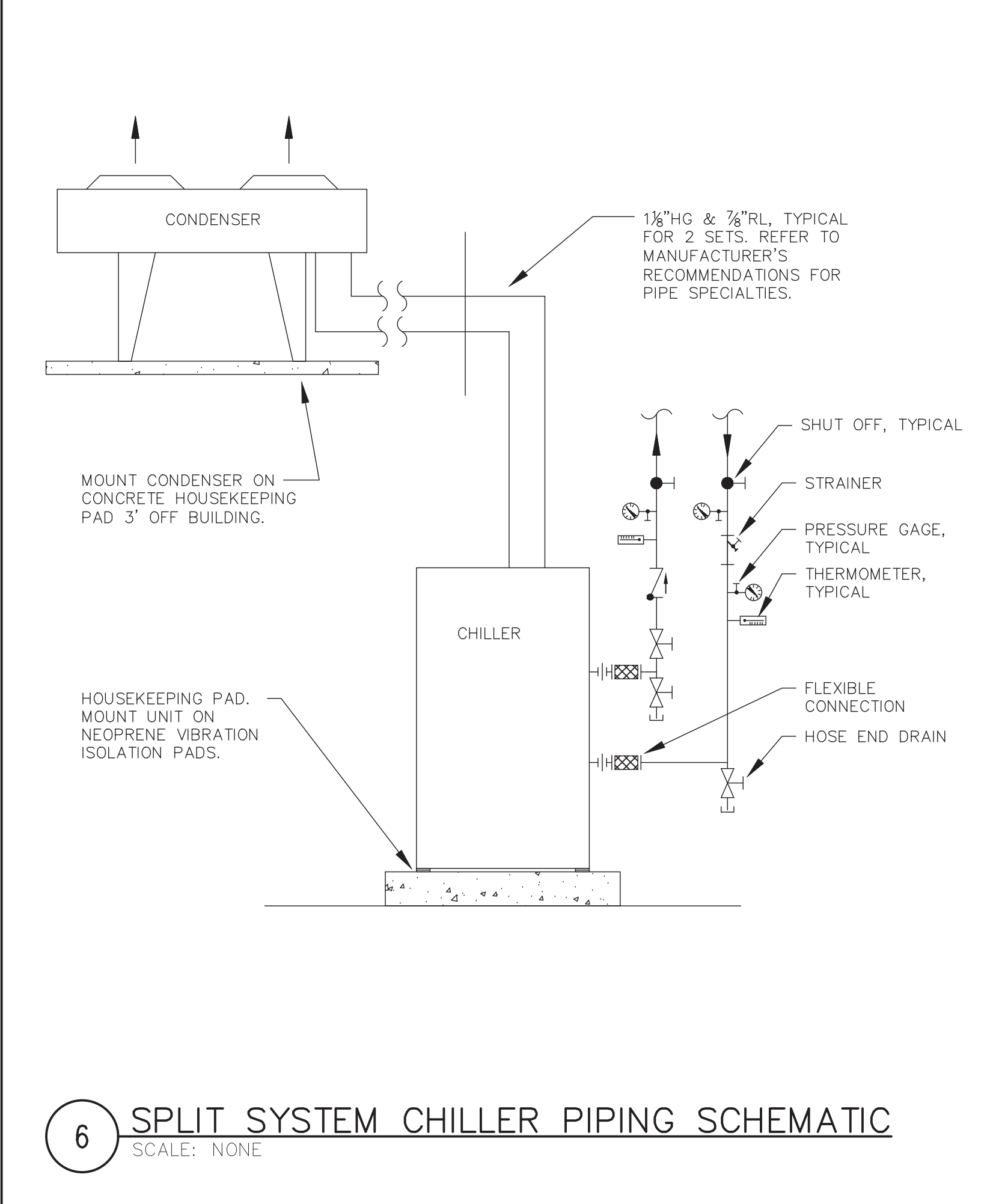


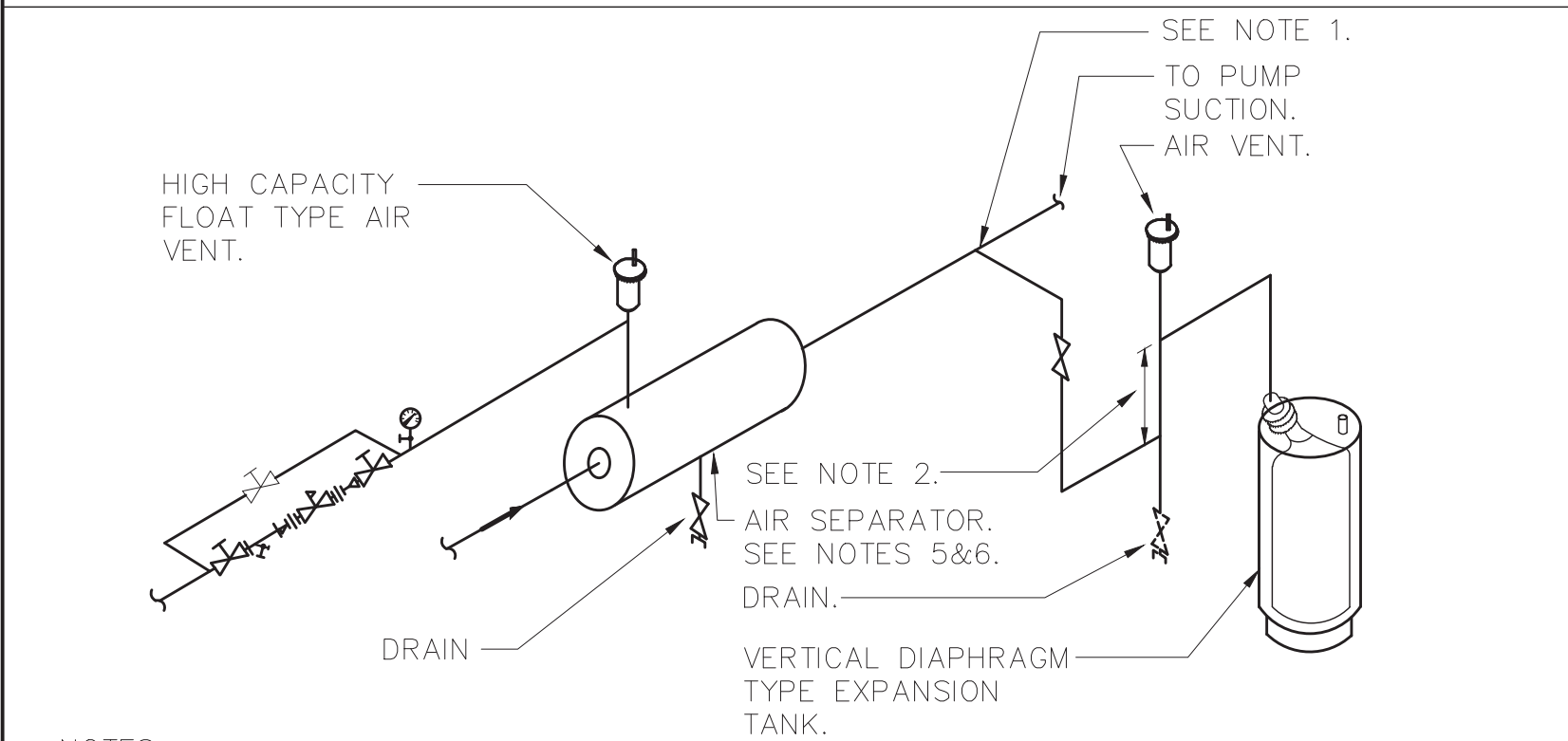
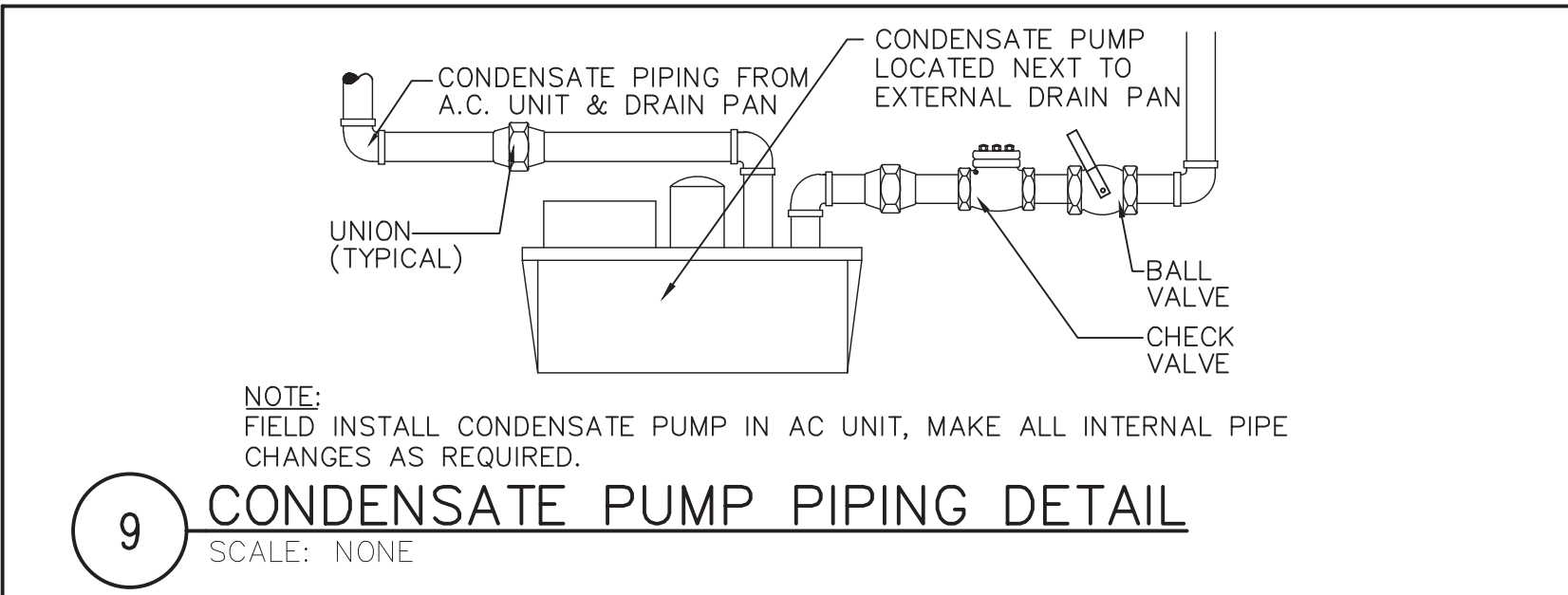
1 MECHANICAL SECOND FLOOR NEW WORK PLAN
SCALE: 1/4" = 1'-0"

DEMOLITION AND NEW WORK NOTES:

- REMOVE EXISTING STEAM RADIATORS AS REQUIRED TO FACILITATE THE INSTALLATION OF NEW RECESSED FAN COIL UNITS. CUT & CAP ALL EXISTING STEAM AND CONDENSATE BRANCH PIPING INSIDE WALL RECESS. ALL OTHER RADIATORS SHALL BE ABANDONED IN PLACE. RISERS SHALL BE ABANDONED IN PLACE.
- COORDINATE ALL NEW FLOOR CORES & OPENINGS WITH ARCHITECTURAL PLANS.

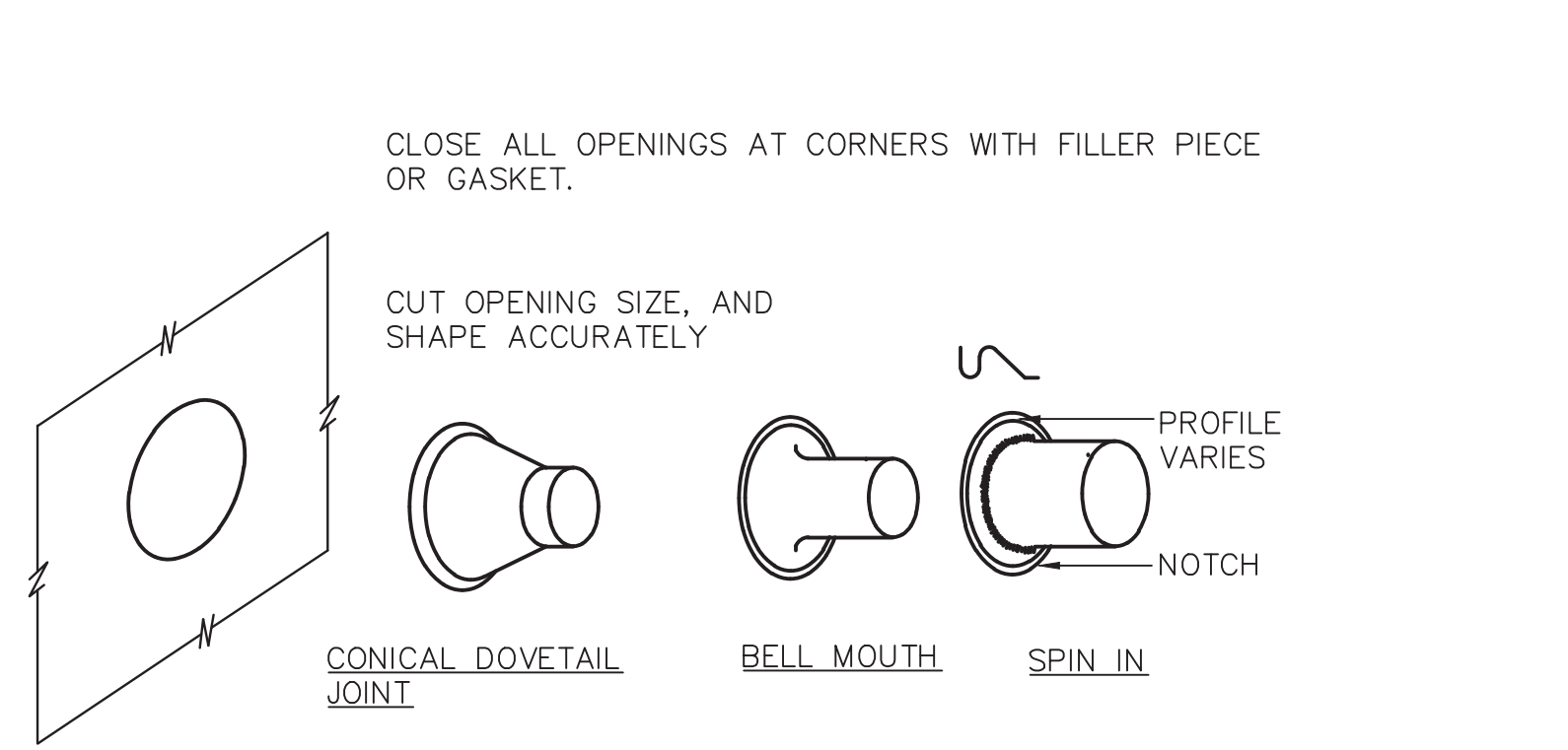
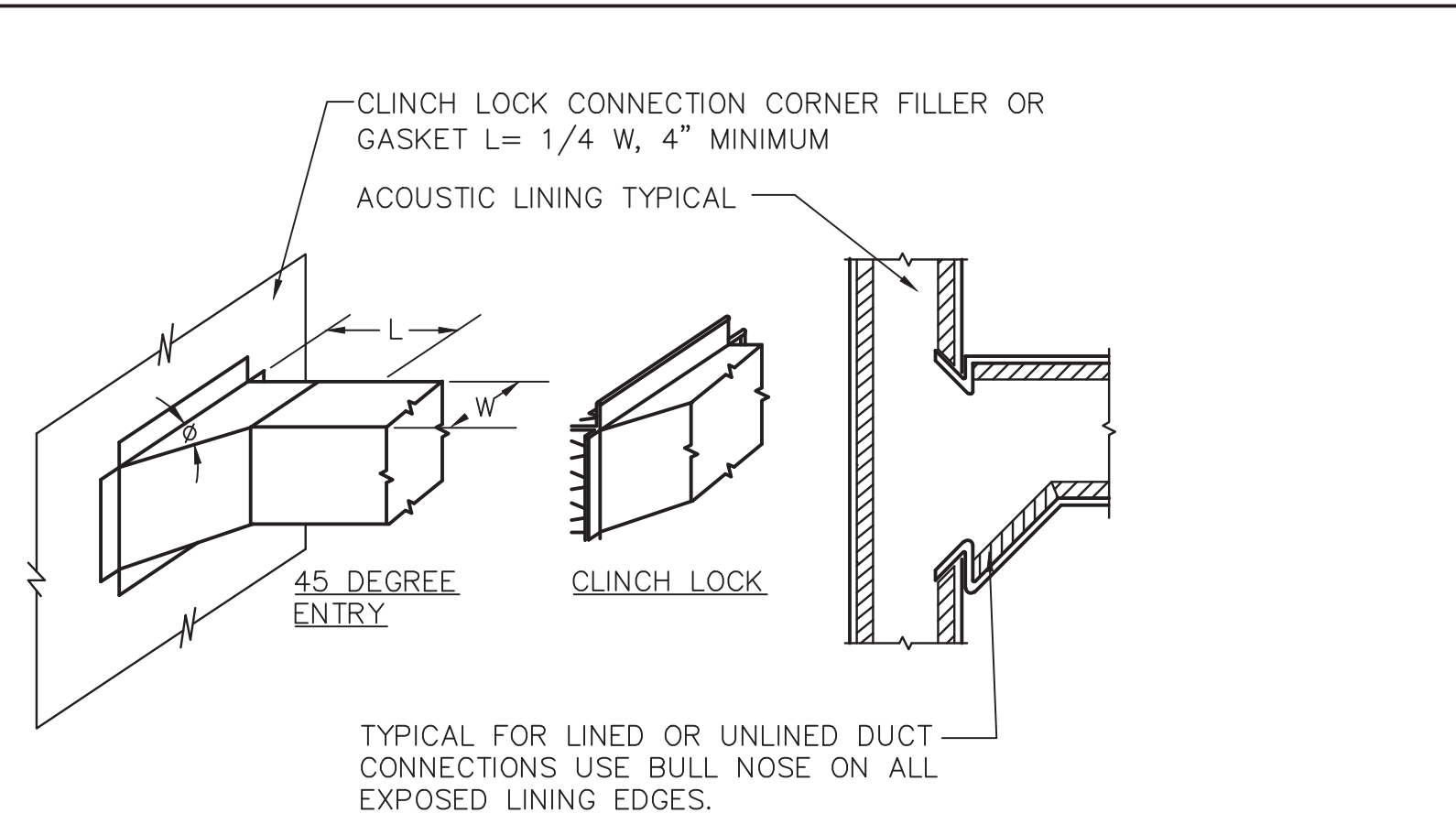
	LA ROCCA GREENE ARCHITECTS, LLC 22 PURCHASE STREET RYE, NEW YORK 10580	OLA CONSULTING ENGINEERS 50 BROADWAY 2ND FLOOR HAWTHORNE, NY 10532		
	ENVIRONMENTAL MAINTENANCE CONTRACTORS 5 ANDERSON LANE GOLDEN BRIDGE, NY 10526	WATSKY ASSOCIATES ROOF CONSULTANTS 20 MADISON AVENUE VALHALLA, NY 10595		
11/6/20		100% SUBMISSION		
REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION
RECORD DRAWING CERTIFICATION				
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CONTRACTOR		PROJECT COORDINATOR		
NAME		NAME		
SIGNATURE		SIGNATURE		
TITLE	DATE	TITLE	DATE	
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 16-529	SHEET NUMBER M2.3	SHEET NO. 42 OF 72
LASDON PARK MAIN HOUSE RENOVATIONS MECHANICAL SECOND FLOOR NEW WORK PLAN		SCALE: AS NOTED DATE: 6/5/20 DPW FILE NO.		REV. NO. 91-05-M-116-0



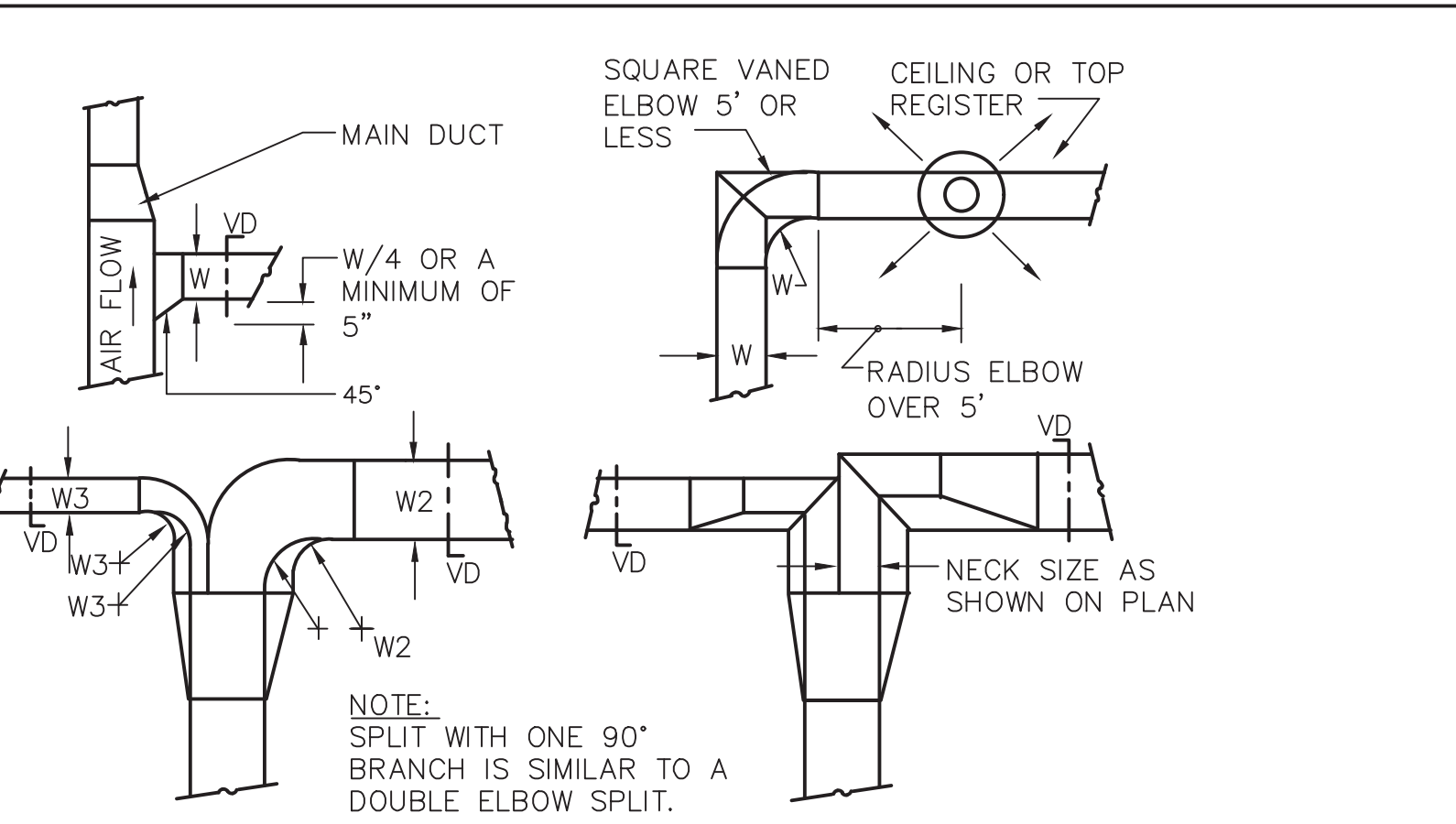


- NOTES:
- 1.) CONNECT TO SIDE OF MAIN TO PREVENT AIR OR DEBRIS FROM ENTERING PIPE TO TANK, TOP OR BOTTOM CONNECTION NOT PERMITTED.
 - 2.) PROVIDE 12" MINIMUM DROP ANTI-THERMOSYPHON LOOP TO PREVENT GRAVITY HEATING OF TANK.
 - 3.) PROVIDE STRAINER IN AIR SEPARATOR WHEN INDICATED IN EXPANSION TANK EQUIPMENT NOTE.
 - 4.) AIR SEPARATOR BELL & GOSSET MODEL IAS-2 WITH AUTOMATIC AIR VENT.
 - 5.) SET PRESSURE REDUCING VALVE SO PRESSURE AT HIGHEST POINT IN SYSTEM HAS A MINIMUM OF 5 PSIG.
 - 6.) CHARGE EXPANSION TANK TO 12 PSI.

8 EXPANSION TANK CONNECTION DETAIL
SCALE: NONE

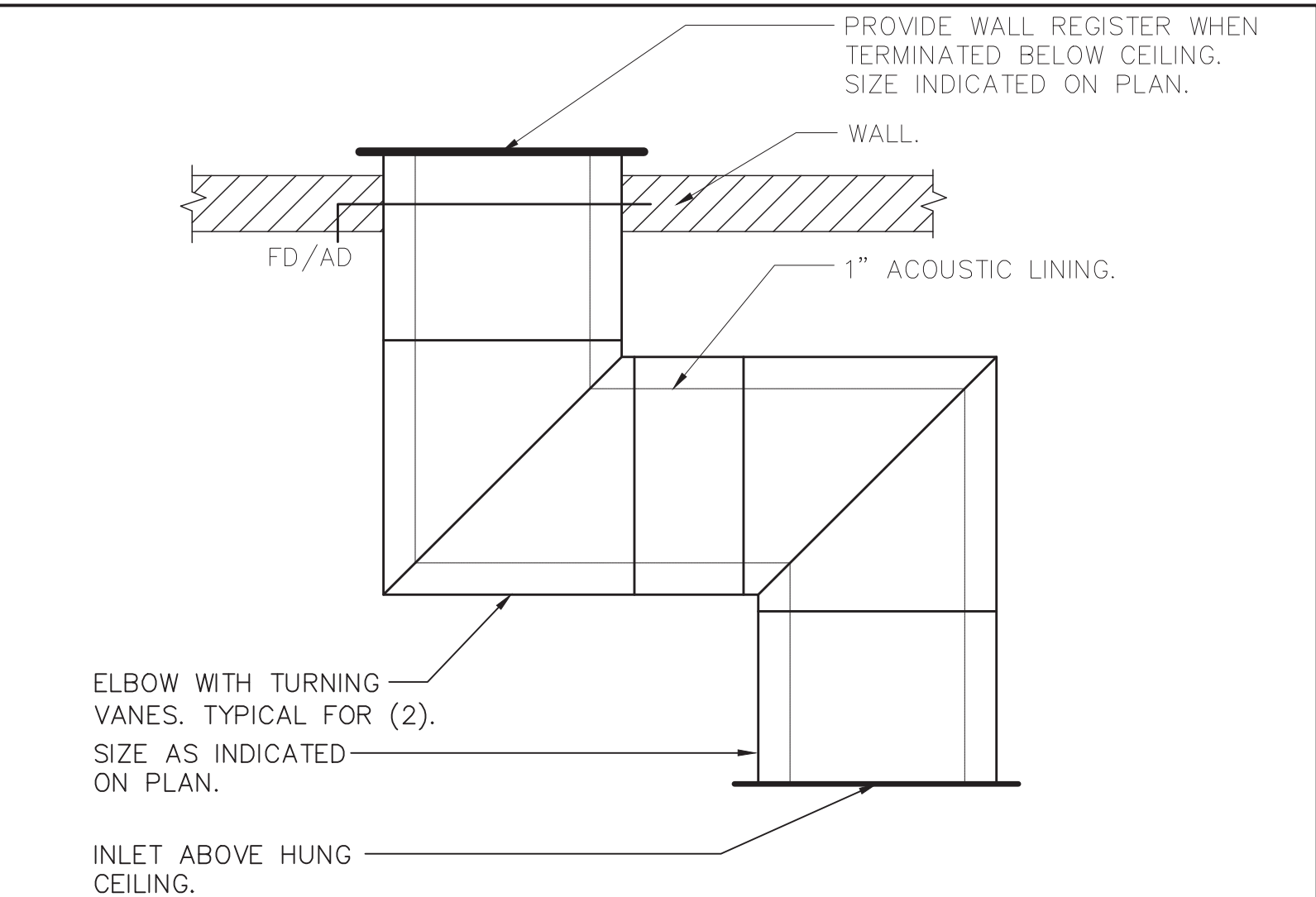


7 DUCT BRANCH CONNECTION DETAIL
SCALE: NONE

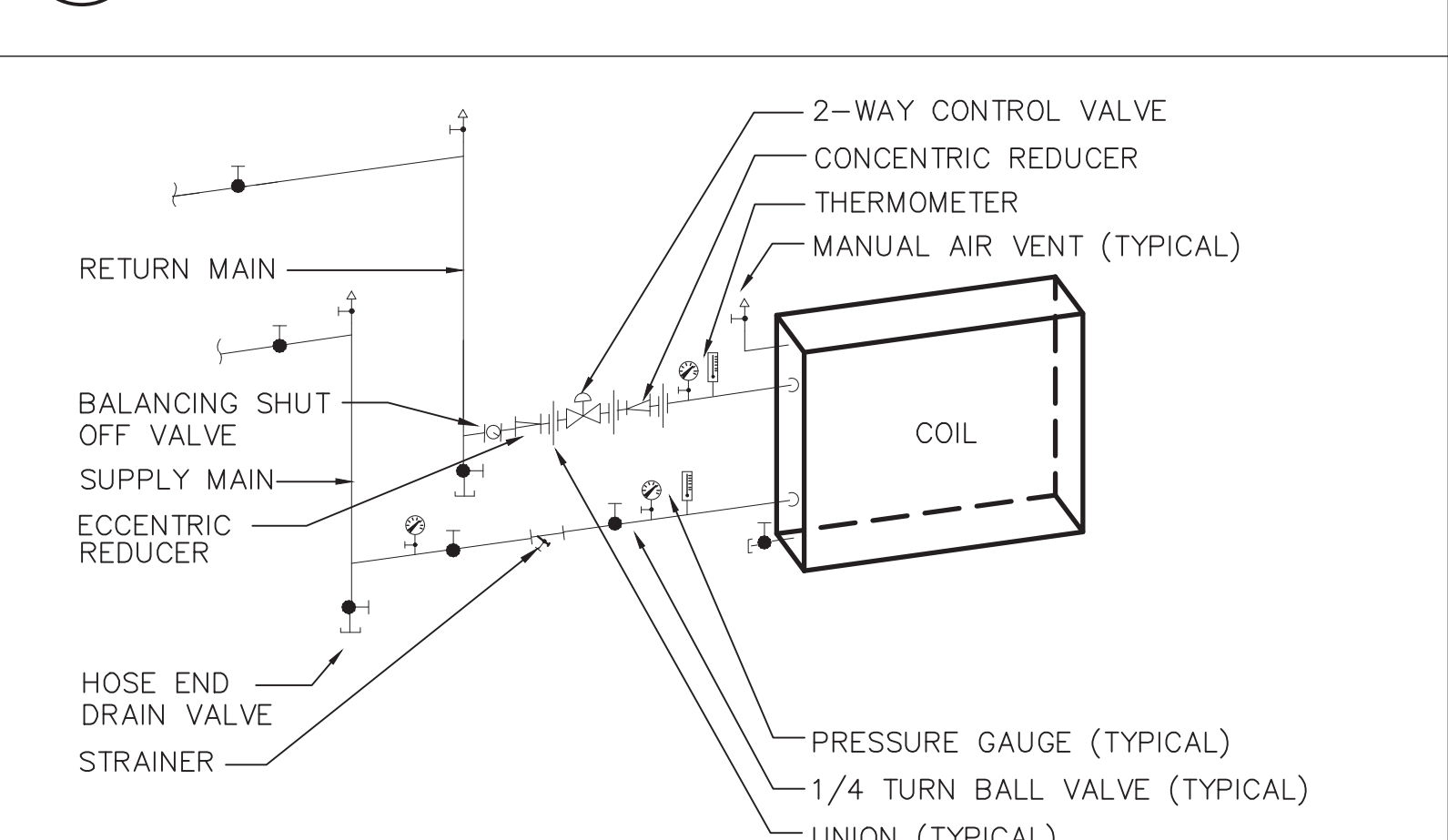


- NOTES:
- 1.) SINGLE LINE REPRESENTATIONS REFER TO DOUBLE LINE DETAILS.
 - 2.) USE RADIUS OR SQUARE VANED BENDS FOR BOTH ELBOWS AND SPLITS AS DETERMINED BY SPACE LIMITATIONS, AND THE DISTANCE FROM AIR OUTLETS.
 - 3.) ALL SQUARE ELBOWS SHALL HAVE FACTORY TURNING VANES, AND MAINTAIN A CONSTANT WIDTH.
 - 4.) WHERE DUCTS SPLIT, THE SOLID LINE REPRESENTATION IS PREFERRED, UNLESS PRECLUDED BY SPACE, OR OTHERWISE INDICATED.
 - 5.) USE ELBOW SPLIT FOR BRANCH CONNECTIONS ONLY WHERE NECK SIZE IS GIVEN.

6 DUCT BRANCH TAKE-OFF DETAIL
SCALE: NONE



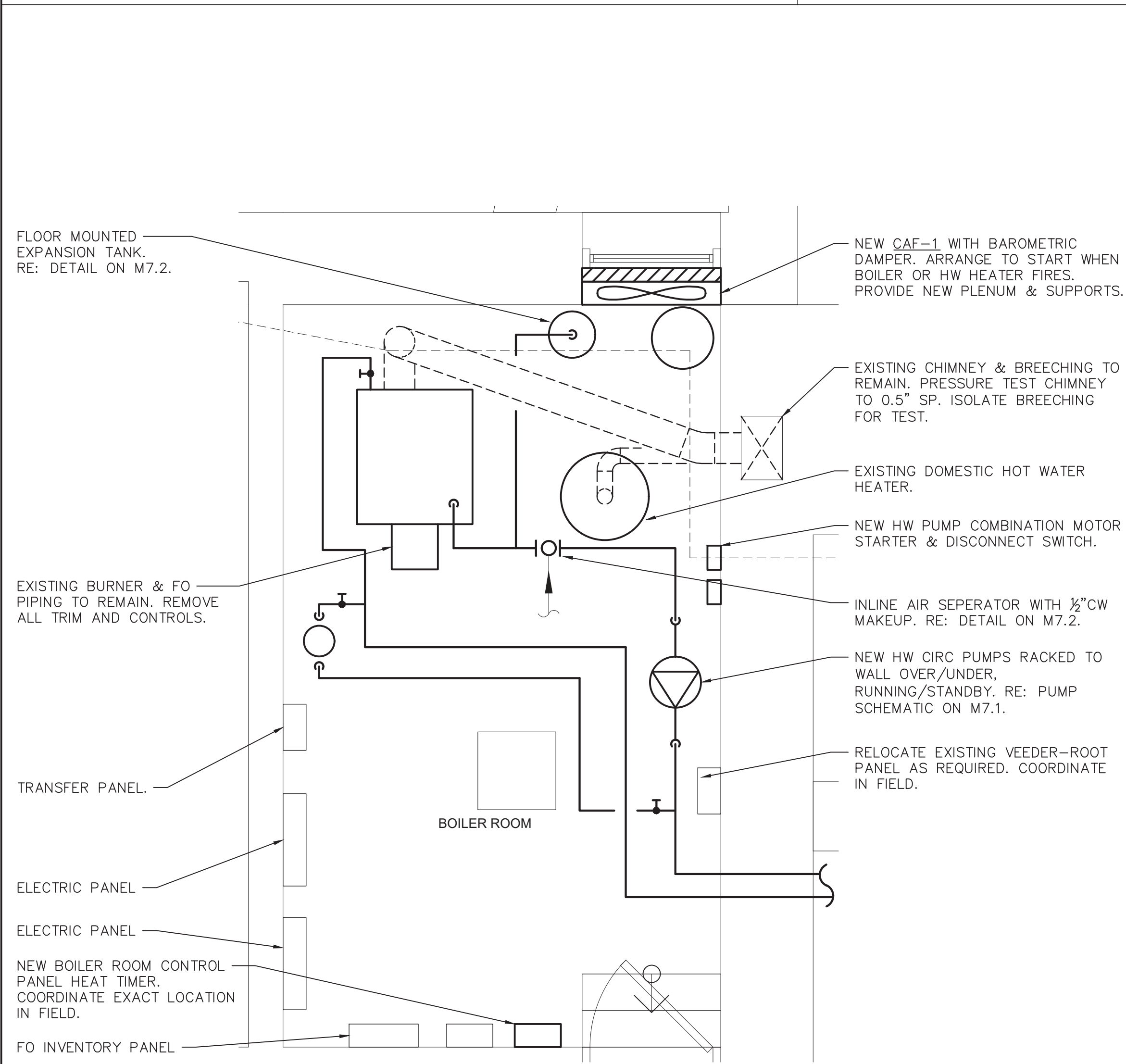
5 TRANSFER DUCT DETAIL
SCALE: NONE



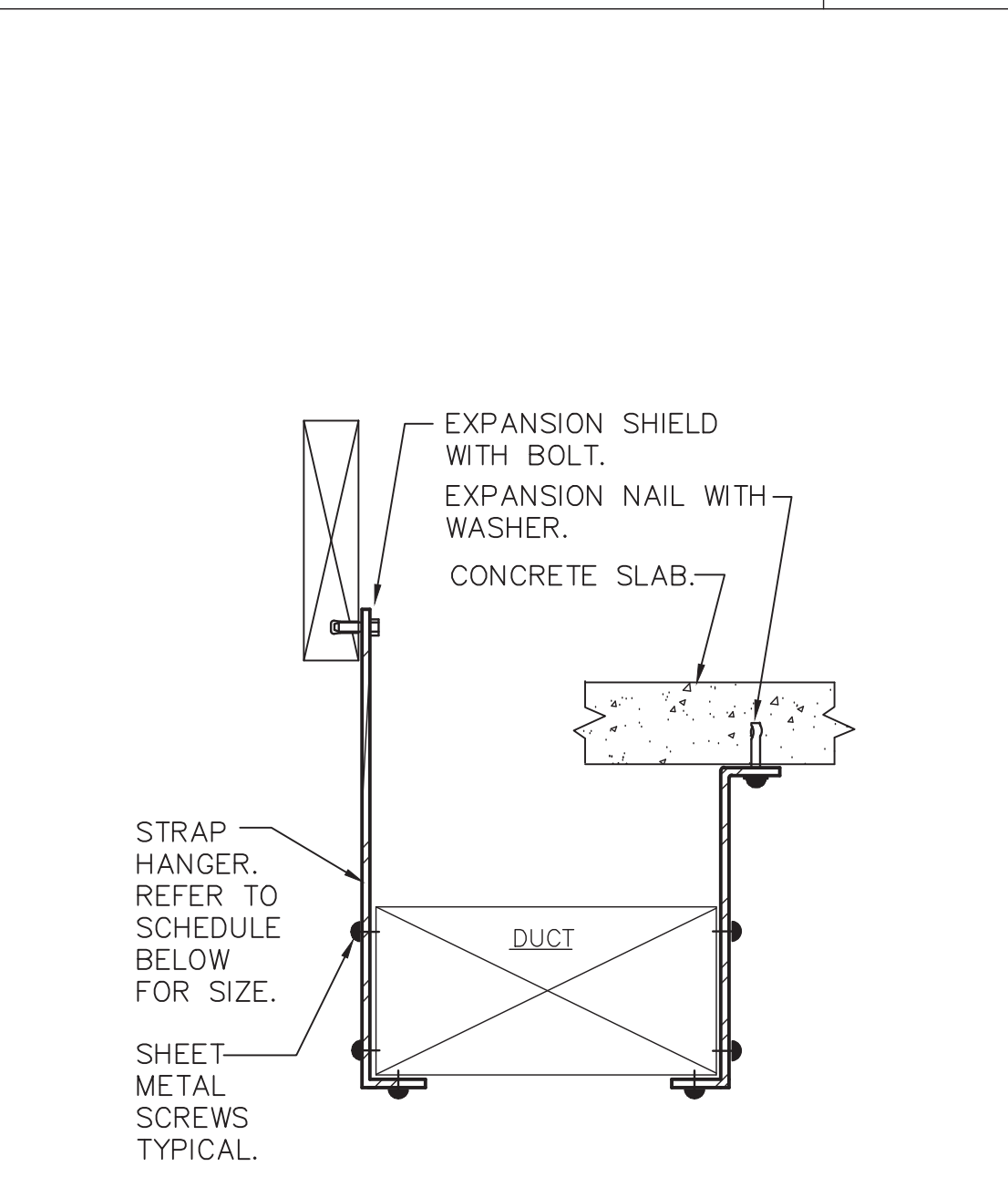
- NOTES:
- 1.) LOCATE ALL COIL UNIONS CLOSE TO, AND CLEAR OF, COIL. ARRANGE PIPING SO AS NOT TO NOT INTERFERE WITH COIL REMOVAL.
 - 2.) DETAIL IS TYPICAL FOR UNIT VENTILATORS, CABINET UNIT HEATERS, FAN COIL UNITS, AND AIR HANDLING UNITS.
 - 3.) PROVIDE FLEXIBLE CONNECTION FOR THOSE COILS MOUNTED IN UNITS ON VIBRATION ISOLATORS.

PIPE SIZE SCHEDULE											
PIPE SIZE	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6
MAX. GPM	2	3.5	7	13	22	45	70	130	260	480	750

1 HYDRONIC COIL WITH 2-WAY VALVE PIPING SCHEMATIC
SCALE: NONE



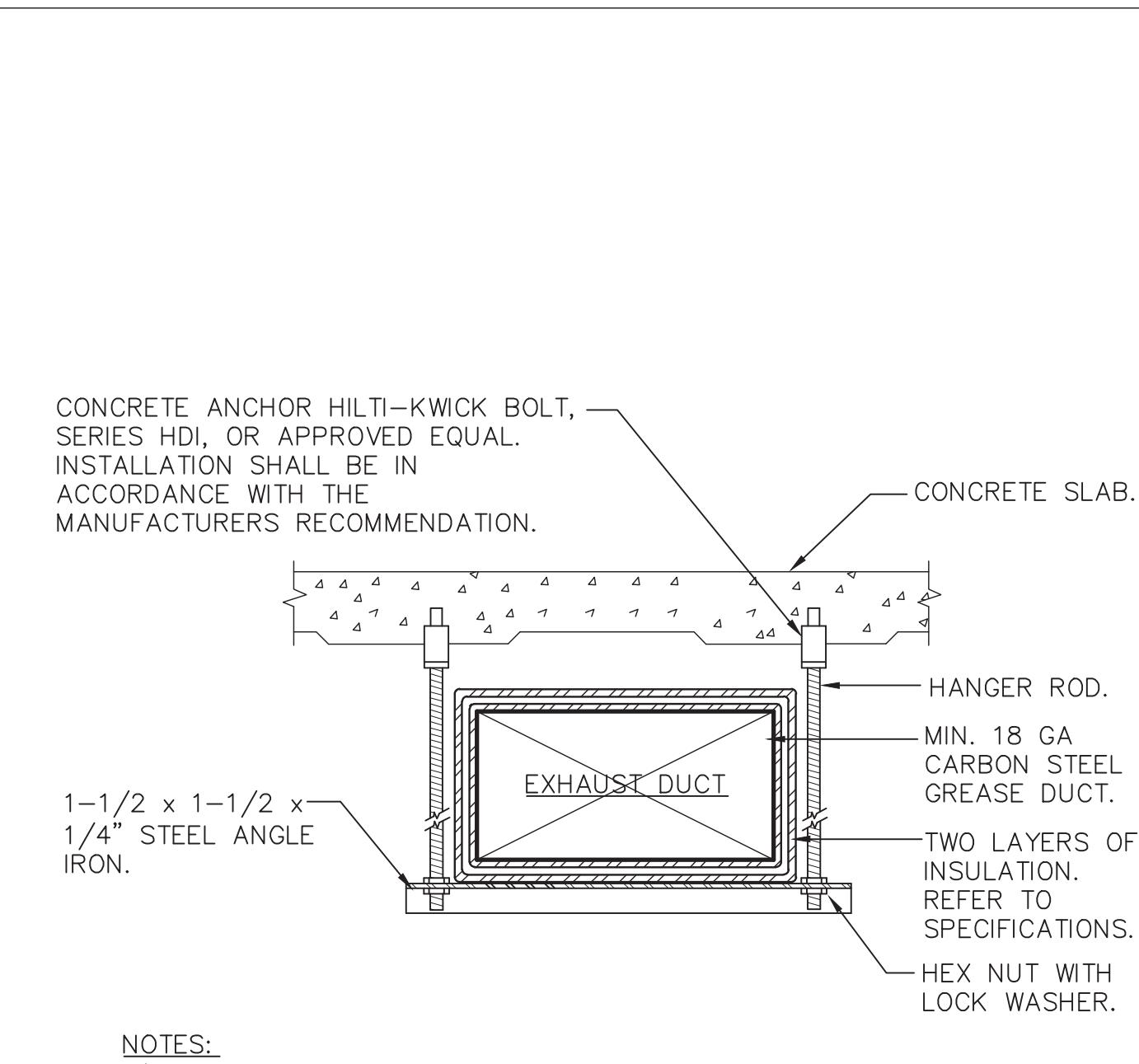
4 BOILER ROOM PART PLAN
SCALE: NONE



- NOTES:
- 1.) FOR DUCTS OVER 49" WIDE, THE STRAP HANGER SHALL BE TURNED UNDER THE BOTTOM OF THE DUCT.
 - 2.) WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
 - 3.) ALL ANCHORS AND INSERTS SHALL HAVE NEW YORK CITY BOARD OF STANDARD AND APPEALS, (BSA) APPROVAL.

HANGER STRAP SCHEDULE		
DUCT SIZE	HANGER SIZE	MAXIMUM SPACING
UP TO 2 SQ.FT.	1" X 1/16"	8'-0"
2 SQ.FT. TO 4 SQ.FT.	1" X 1/8"	8'-0"
4 SQ.FT. TO 10 SQ.FT.	1" X 1/8"	6'-0"
OVER 10 SQ.FT.	1" X 1/8"	4'-0"

3 DUCT HANGER DETAIL
SCALE: NONE



- NOTES:
- 1.) FASTENERS USED TO SECURE THE HANGER STRAPS MUST BE CARBON STEEL OR STAINLESS STEEL AND SHALL NOT PENETRATE DUCT WALLS.
 - 2.) INSULATION SHALL BE 3 M FIRE MASTER UL RATED, DUCT WRAP WITH TEMPERATURE RATING OF 300° F, FOIL ENCAPSULATED SYSTEM RATED FOR 2 HOURS. 2 LAYERS, 3" THICK.
 - 3.) WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
 - 4.) ALL ANCHORS TO BE REVIEWED AND APPROVED BY ARCHITECT.
 - 5.) DETAIL IS SIMILAR FOR ROUND DUCTWORK.

HANGER ROD SCHEDULE		
DUCT SIZE	HANGER DIA	MAXIMUM SPACING
UP TO 2 SQ. FT.	16 GAUGE - 3/8"	8'-0"
2 SQ FT TO 4 SQ FT	11 GAUGE - 1/2"	8'-0"
4 SQ FT TO 10 SQ FT	11 GAUGE - 1/2"	6'-0"
OVER 10 SQ FT.	11 GAUGE - 1/2"	4'-0"

2 KITCHEN EXHAUST DUCT HANGER DETAIL
SCALE: NONE

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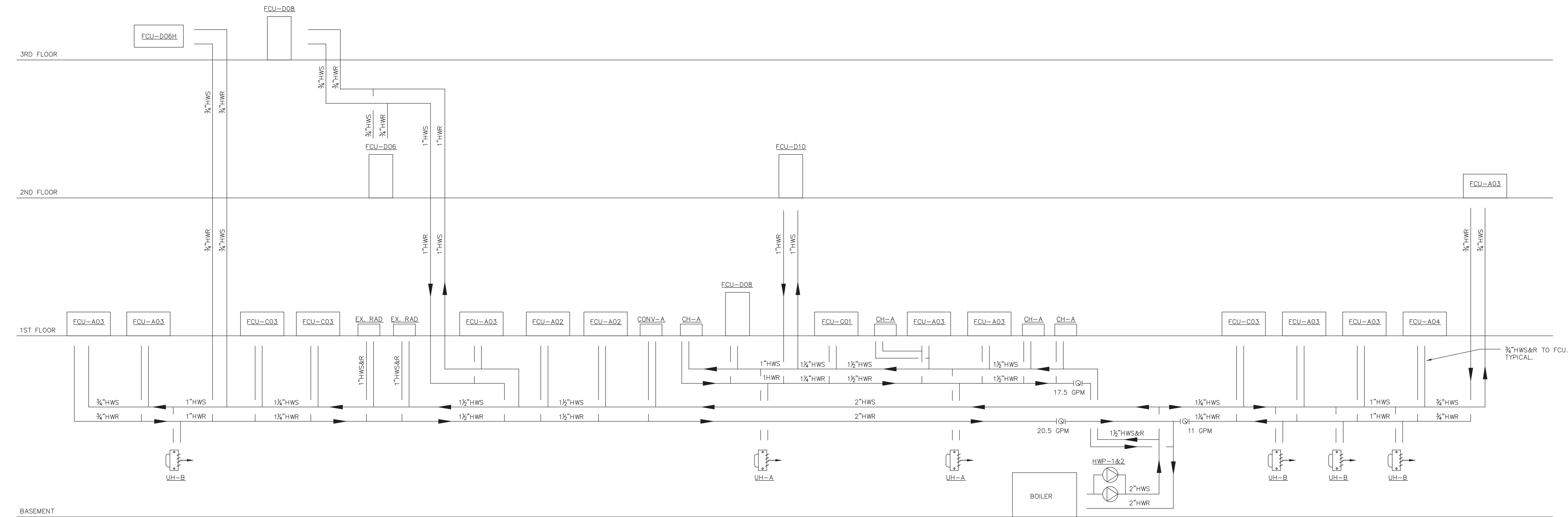
	11/6/20		100% SUBMISSION

REVISION NUMBER	DATE	MADE BY	APP'D BY	REVISION

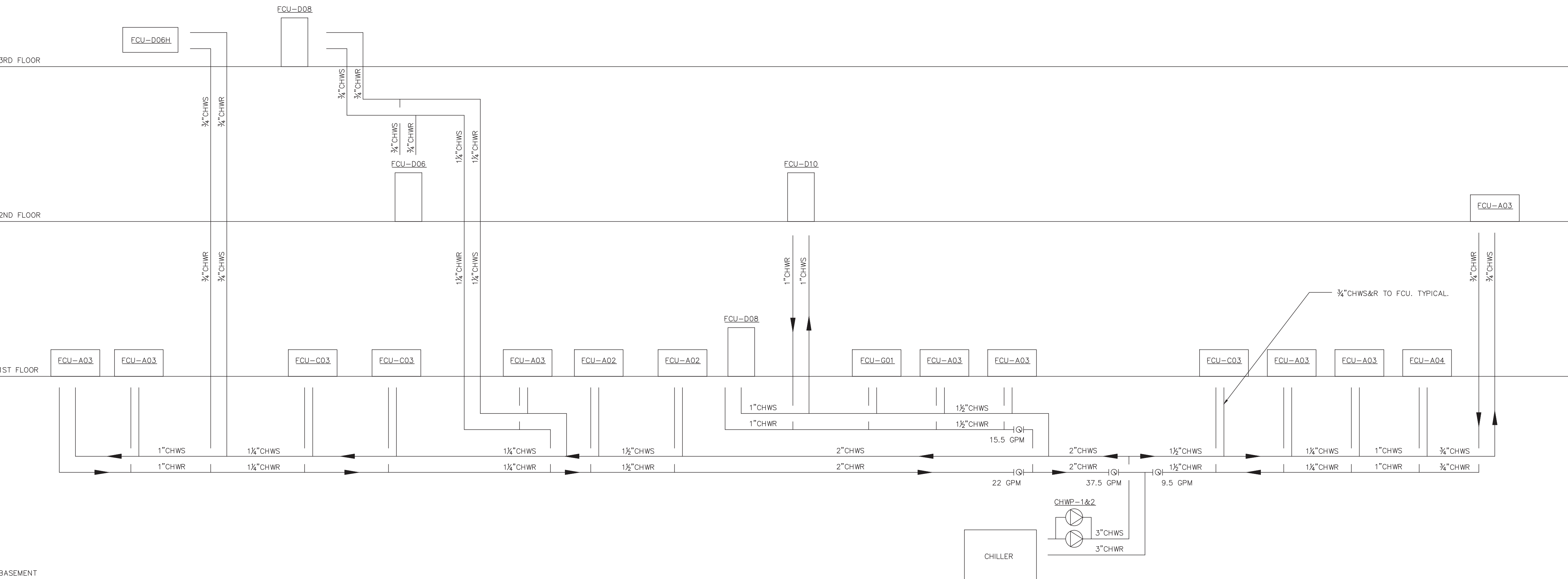
RECORD DRAWING CERTIFICATION

☐ AS BUILT - CHANGES AS NOTED
☐ AS BUILT - NO CHANGES

CONTRACTOR		PROJECT COORDINATOR	
NAME	SIGNATURE	NAME	SIGNATURE
TITLE	DATE	TITLE	DATE
WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		LASDON PARK MAIN HOUSE RENOVATIONS MECHANICAL DETAILS	
CONTRACT NUMBER 16-529		SHEET NUMBER M7.2	
SHEET NO. 46 OF 72		SCALE: AS NOTED DATE: 6/5/20 DPW FILE NO. 91-05-M-120-0	
		REV. NO.	



2 HOT WATER RISER DIAGRAM
SCALE: NONE



1 CHILLED WATER RISER DIAGRAM
SCALE: NONE

	LA ROCCA GREENE ARCHITECTS, LLC 22 PURCHASE STREET RYE, NEW YORK 10580	OLA CONSULTING ENGINEERS 50 BROADWAY 2ND FLOOR HAWTHORNE, NY 10532		
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WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION DIVISION OF ENGINEERING		CONTRACT NUMBER 16-529	SHEET NUMBER M7.3	SHEET NO. 47 OF 72
LASDON PARK MAIN HOUSE RENOVATIONS MECHANICAL RISERS		SCALE: AS NOTED DATE: 6/5/20 DPW FILE NO. 91-05-M-121-0		