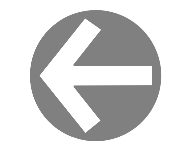


1 FIRST FLOOR PLUMBING PLAN
SCALE: 1/8" = 1'-0"



PLUMBING PLAN NOTES:

- CONNECT TO EXISTING 4" NATURAL GAS PIPE AT THE BOTTOM OF THE EXISTING RISER. EXTEND NEW 3" NATURAL GAS PIPE DISTRIBUTION SYSTEM AS SHOWN TO SERVE NEW INFRARED UNIT HEATERS. COORDINATE WITH NATURAL GAS COMPANY FOR INCREASE NATURAL GAS LOAD AS REQUIRED. REFER TO NATURAL GAS LOAD SCHEDULE FOR ADDITIONAL INFORMATION.
- EXTEND NEW NATURAL GAS SYSTEM TO HEATER/FURNACE AS SHOWN. PROVIDE DIRT LEG AND GAS COCK AT HEATER CONNECTION. REFER TO HEATER INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS. COORDINATE WITH HVAC CONTRACTOR.
- DISCONNECT AND RECONNECT NATURAL GAS PIPING AS REQUIRED FOR REPLACEMENT OF MAKE-UP AIR UNIT. PROVIDE DIRT LEG AND GAS COCK AT HEATER CONNECTION. MAKE FINAL CONNECTIONS PER MAKE-UP AIR UNIT INSTALLATION INSTRUCTION. COORDINATE WITH HVAC CONTRACTOR.

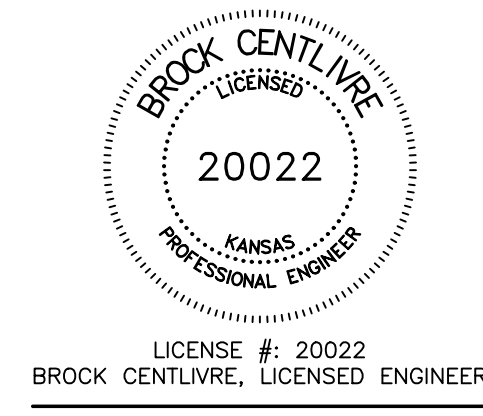
PLUMBING GENERAL NOTES:

- DRAWINGS ARE SCHEMATIC IN NATURE AND BASED ON PRELIMINARY SITE OBSERVATION AND ORIGINAL DESIGN DRAWINGS (WHEN AVAILABLE). CONTRACTOR SHALL INVESTIGATE THE PROJECT SITE AND BECOME FULLY AWARE OF ALL FIELD CONDITIONS, CURRENT SYSTEM OPERATION, AS WELL AS COORDINATION REQUIREMENTS. COORDINATE ALL PLUMBING WORK WITH ARCHITECTURAL DRAWINGS, EXISTING CONDITIONS, AND OTHER TRADES PRIOR TO BID OR START OF WORK.
- PLUMBING WORK SHALL CONFORM TO APPLICABLE CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- EXACT LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES SHALL BE VERIFIED PRIOR TO ANY INSTALLATION OF CONNECTIONS THEREOF. ALL CONNECTIONS TO EXISTING UTILITIES (E.G. DOMESTIC WATER, SEWER, VENT, AND NATURAL GAS) SHALL BE MADE WITH APPROVAL OF THE ADMINISTRATIVE AUTHORITY AND THE RESPECTIVE UTILITY COMPANIES.
- COORDINATE CONDENSATE DRAIN REQUIREMENTS WITH THE HVAC CONTRACTOR AND OTHER TRADES.
- CONDENSATE DRAIN PIPING SHALL BE TYPE M COPPER PIPING WITH WROUGHT FITTINGS AND SOLDERED JOINTS.
- SLOPE CONDENSATE DRAIN PIPING AS FOLLOWS: 1/4" PER FOOT FOR ALL PIPE SIZES.
- ALL NATURAL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL WITH MALLEABLE FITTINGS. SUPPORT PIPING AT INTERVALS NOT TO EXCEED THOSE LISTED IN TABLE 415.1 OF THE INTERNATIONAL FUEL GAS CODE.
- PROVIDE RUST-INHIBITOR PAINT ON ALL NATURAL GAS PIPING LOCATED EXTERIOR TO THE BUILDING.
- PROVIDE A.G.A. APPROVED GAS COCKS AND DIRT LEGS AT CONNECTIONS TO ALL GAS-FIRED EQUIPMENT.
- CONTRACTOR SHALL LABEL ALL PIPING, VALVES AND EQUIPMENT WITH MANUFACTURER STANDARD LABELING SYSTEMS. COORDINATE WITH OWNER FOR FINAL EQUIPMENT DESIGNATIONS.

NATURAL GAS LOAD SCHEDULE				
EQUIPMENT TAG	QTY	DESCRIPTION	CFH INPUT (EACH)	TOTAL CFH
LOADS TO BE REMOVED				
MAU-1	1	MAKEUP AIR UNIT	1,900	1,900
MAU-2	1	MAKEUP AIR UNIT	1,700	1,700
EXISTING LOADS TO REMAIN				
AHU-1	1	FURNACE (ETR)	130	130
AHU-2	1	FURNACE (ETR)	130	130
AHU-3	1	FURNACE (ETR)	130	130
NEW LOADS				
MAU-1	1	MAKEUP AIR UNIT	1,433	1,433
MAU-2	1	MAKEUP AIR UNIT	1,433	1,433
IR-1	1	RADIANT HEATER	100	100
IR-2	1	RADIANT HEATER	100	100
IR-3	1	RADIANT HEATER	75	75
IR-4	1	RADIANT HEATER	150	150
IR-5	1	RADIANT HEATER	75	75
IR-6	1	RADIANT HEATER	100	100
IR-7	1	RADIANT HEATER	100	100
IR-8	1	RADIANT HEATER	100	100
IR-9	1	RADIANT HEATER	150	150
IR-10	1	RADIANT HEATER	150	150
			EXISTING LOADS =	3,990
			NEW SYSTEM TOTAL =	4,356
			ADDED CFH =	366

NOTES:
A. METER DISCHARGE PRESSURE: 11 IN. WG.
B. TOTAL DEVELOPED LENGTH: 300 FT.
C. DESIGN NATURAL GAS PIPING SYSTEM PRESSURE DROP: 0.3 IN. WG
D. INLET PRESSURE FOR ALL GAS-FIRED EQUIPMENT: 7 TO 11 IN. WG.

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HVAC Improvements for:
The City of Merriam Public Works
Merriam City Public Works
6901 Knox St.
Merriam, KS 66203

ISSUE DATES

P1.1