

Purchasing Division Finance Department

Room 120 411 West First Street Duluth, Minnesota 55802



Addendum #1 Bid # 21-0456 Steam to HW Bldg Conversion – Phase 3 Group E (Bella Grace Bldg)

This addendum serves to notify all bidders of the following changes to the solicitation documents:

- Districting Piping spec is not correct District piping to be Sch 40 seamless pipe. Pipe 2" or less can be threaded, but fittings need to be 2000# forged (minimum)
- Existing 4" steam line shown on drawings is not re-useable. Add a second 2-1/2" supply pipe to parallel the return line from the basement mechanical room to the 4th floor Penthouse.
- Unit heater (UH-1) to be supplied by DES
- Installation of pipe through 1st Floor (CSL Plasma) will need to occur after their business hours. Area where project work will happen will need to be enclosed to prevent contaminating CSL operating space. CSL Plasma business hours (M-F 6:00 AM – 8:00 PM, S&S 8:00 AM – 5:00 PM)
- Insulation spec is missing. Insulation to follow MN Code. See below
 - o District Piping temps will operate between 160°F and 215°F
 - o Secondary Piping temps will fluctuate between 140°F and 190°F

TABLE C403.2.8
MINIMUM PIPE INSULATION THICKNESS (thickness in inches)

FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (inches)				
	Conductivity Btu · In./(h · ft² · °F) ^b	Mean Rating Temperature, °F	<1	1 to < 1 ¹ / ₂	1 ¹ / ₂ to < 4	4 to < 8 ·	≤ 8
> 350 .	0.32 - 0.34	250	4.5	5.0	5.0	5.0	5.0
251 – 350	0.29 - 0.32	200	3.0	4.0	4.5	4.5	4.5
201 – 250	0.27 - 0.30	150	2.5	2.5	2.5	3.0	3.0
141 – 200	0.25 - 0.29	125	1.5	1.5	2.0	2.0	2.0
105 – 140	0.21 - 0.28	100	1.0	1.0	1.5	1.5	1.5
40 – 60	0.21 - 0.27	75	0.5	0.5	1.0	1.0	1.0
< 40	0.20 - 0.26	·75	0.5	1.0	1.0	1.0	1.5

Please acknowledge receipt of this Addendum by checking the appropriate box in the Bid Express solicitation.

Posted: 6/17/21