

SAN RAFAEL CITY SCHOOLS
310 Nova Albion Way, San Rafael, CA 94903

ADDENDUM NO. 2
TO
Bid No. #24-13

San Rafael High School Madrone HVAC Project
Addendum Date: May 16th, 2024

THIS ADDENDUM PROVIDES FOR CLARIFICATIONS & ADDITIONAL
INFORMATION:

1. Information/Scope

- Patching of sheetrock, painting and T-Bar ceiling will be performed by others.
- Measuring of existing air quantities before removal of fan coils and rebalancing upon completion of work.

2. Controls Amendment

HP-1 & 2

Modify the current radiant floor controls to accomplish the following:

1. Revise field control sequence to, under normal operation, stage the pump and operate the zone control valves so as to never experience a water flow rate, that drops below the recommended rate, whenever the EEV is open.
2. Add field controls to detect LG-Hydrokit heat exchanger temperature.
3. Add field controls to detect waterside pressure drop across the LG-Hydrokit heat exchanger. Using test and balance services, calibrate the pressure drop across the full range of acceptable water flow rates.
4. Add field control logic to, via physical interlock to the LG-outdoor compressor unit, perform a controlled shutdown of the refrigerant system when the following conditions exist:
 - i. The heat exchanger experiences a temperature below 40 degrees (adjustable).
 - ii. The heat exchanger experiences a low water flow (value to be specified by LG), when the Hydrokit EEV is open for any reason.
5. Add field control trend points to the Hydrokit temperature and flow.
6. Add field alarm points to heat exchanger temperature and flow. Points to be mappable to remote enunciation/text services for operator notification (text, address and setpoints to be adjustable) shall support

multiple simultaneous notification addresses. Provide/coordinate with District resources as needed to achieve this.

7. Field control system shutdown shall require manual reset.

Questions/Answers:

Question: It is our opinion that a chemical pot feeder should be added to both of the radiant loops to facilitate the initial and subsequent introductions of glycol to the radiant loop. Please advise.

Answer: HP-1 & HP-2 Add 2-gallon bypass feeder similar to: Vector EC-2TC 2-Gallon Bypass Feeder, 3/4 Inch NPT Fittings, Domed Bottom, W/ Leg Set to underfloor hydronic systems. Plumb with bypass and isolation valves. Secure to floor in accordance with specifications.

[END OF ADDENDUM]