April 22, 2019

Addendum 1
ITB # 19-11-207154
Wasilla Shops HVAC Upgrades

Addendum number 1 is issued for questions / clarifications.

The Closing Date for this has not changed. This RFP will close as follows:
Proposals will be received until May 1, 2019 @ 3:00 PM local Alaska time.

Clarifications / Questions:

1) There is a page missing in the drawings sent out. Please see attached
2) Please clarify the duct on the first floor? It is to be painted black.
3) Please provide details for concrete pads for the condenser and HX1. Heat exchanger slab on grade pinned to existing steel mesh reinforcement. Condenser 6” slab on grade, steel mesh reinforcement.
4) Who manufacture of the roofing materials? Malarkey is the manufacturer.

All other terms and conditions remain unchanged.
If there are any questions regarding this addendum please let me know.

Thank you,

Greg Goemer
Sr. Contract Administrator
Alaska Railroad Corporation


2.7 PIPING EXECUTION

2.7.1 INSTALLATION

A. Ream pipe and tube ends. Remove burrs, weld splatter, and flash. 

B. Remove scale and dirt, on outside and inside of pipe, before assembly. 

C. Prepare piping connections to equipment with flanges or unions. 

D. Install in accordance with manufacturer’s instructions. 

E. Provide non-conducting diathermic connections whenever piping discharges metallic objects to FACE 7030-E. 

F. Route piping in orderly manner and maintain gradients. 

G. Sleeve pipe passing through walls, walls, and floors. 

H. Install piping to conserve building space and not interfere with use of space. 

I. Group piping wherever practical at common locations. 

J. Install piping to allow for expansion and contraction without stressing pipe, joints, or connected equipment. 

K. Install with stress relieved, and supported in accordance with applicable codes. 

L. Protect piping systems from entry of foreign materials by temporary covers, completing sections of the work, and protecting all parts of the system when complete. 

M. Provide clearance for installation of insulation and access to valves and fittings. Provide access doors where valves and fittings are not exposed. 

2.7.2 TESTING

A. Heating Water and Glycol Piping Systems

1. Test all water piping hydrostatically for 5 minutes at 100 psi or 50 psi of working pressure, whichever is greater, for a period of four hours. Observe piping during this period and repair all leaks. 

2. Air Test.

a. In general, air testing is not desirable. In rare cases of conditions which would make the test necessary, however, an equivalent air pressure test may be done by releasing air into the piping and obtaining approval from the Contracting Authority. 

b. Make the air test by attaching an air compressor to the system as applicable to any similar test and allowing it to traverse the entire length of the system, and into the other parts of the system. 

2.7.3 DUCTWORK INSTALLATION

A. Fabricate and support in accordance with SMACNA duct construction standards and ASHRAE handbooks, except as indicated. Provide duct material, gaskets, reinforcing, and sealing for operating pressure indicated. 

B. In general, increase duct size gradually not exceeding 15-20 degrees divergence whenever possible. Divergence of equipment shall not exceed 30 degrees, convergence downstream shall not exceed 45 degrees. 

C. Use double nuts and lock washers on threaded nuts only. 

2.7.4 DUCTWORK APPLICATION Material 

A. Air System 

a. Low Pressure Supply 

b. Ductwork 

R. Steel 

2.9 TEMPERATURE CONTROLS

A. Provide electrostatic/temperature controls for all equipment and systems specified. Administrative testing is to be performed during system operations. 

1. Pump: PMP-HS. Pump shall be manufactured, continuous manual on-off switch, set pump variable differential pressure control mode. 

2. Gas-Fired Unit Heaters: GHU-1, GHU-2. On for call from heat, 

3. Space Heaters: 

H. Electric, HC-1: Two-way hot 

L. Mixed Air Temperature (Occupied Mode): 

a. When the air is off, the outside air and exhaust dampers are closed and the return damper opens. 

b. If the fan is on, the outside air damper is fully open. 

c. Mixed Air Temperature (Unoccupied): 

1. Supply Air Temperature: 

a. HVAC-1: When supply fan is on, RMP-5 maintains the system at 55 degrees F. 

2. Air supply fan shall be on, discharge air shall be 

3. Proper thermal overload protection is in place for electrical equipment. 

4. Final air return 

5. System ducts are clean. 

6. Correct fan rotation. 

7. Coil fans have been cleaned and combined. 

8. Air returns are clean and duct end caps are in place. 

9. Air outlets are installed and connected. 

10. Duct systems leakage has been minimized. 

11. Mixed Air temperature shall be maintained by modulating the VAV system and the HVAC system as required to maintain supply air temperature. 

12. Correct pump rotation. 

13. Proper fan rotation is clean. 

14. Service and balance valves are open. 

15. Report any defects or deficiencies noted during testing, including but not limited to the following.

16. Promptly report abnormal conditions in mechanical systems or conditions which prevent system balance. 

17. If, for design reasons, system cannot be properly balanced, report as soon as observed.