

## **Project Narrative**

The Twin Valley School District has begun work to address heating, ventilation, and air-conditioning (HVAC) needs in District buildings. The District has decided to proceed with this work for the following reasons:

- Existing mechanical systems under consideration for this project are 20-30+ years old and at or beyond their useful life.
- Equipment targeted under this program has been well maintained; however, it is aged to a point where replacement is warranted.
- Buildings are experiencing control and comfort challenges associated with older equipment and controls as well as continued maintenance needs.

The installation of a current generation HVAC system was the next logical step for consideration by the Twin Valley School District. The solutions vary slightly by building. They include replacing existing HVAC systems with Dedicated Outdoor Air System (DOAS) units and 4-pipe unit ventilators in the classroom (and similar) areas, or upgrades to existing heat pump/energy recovery ventilator systems. The benefits of these upgrades include improved control and comfort, improved humidity control, increased system efficiency, and reduced maintenance issues.

Work in 2022 will occur in the Twin Valley Elementary Center, the Twin Valley Middle School, and the Twin Valley High School.

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## **June 2022 Progress**

Twin Valley Elementary Center – Select work days/weekends and then day shift during summer.

- Work commenced on day shift on June 13, 2022.
- Removal of ceilings below the mezzanine for installation of new work.
- Removal of existing ductwork in the mezzanine in preparation for the installation of new ductwork and equipment.

Twin Valley Middle School – Select work days/weekends and then day shift during summer.

- All work moved to day shifts on June 13, 2022.
- Completed the removal of ceiling tile in corridors/classrooms including supporting of the existing lights and devices on the 2<sup>nd</sup> Floor in Areas “A”, “B”, “C”, and “D”.
- Completed masonry penetrations for new ductwork through classroom walls into the Corridors in Areas “A”, “B”, “C”, and “D” on the 2<sup>nd</sup> Floor.
- Completed the electrical conduit rough-in for a new 400 amp feed.
- All but two new rooftop equipment curbs were installed and flashed/weatherproofed.
- Installation of ductwork in 2<sup>nd</sup> Floor Corridors/Classrooms in Areas “A”/”B”/”C” is 80% complete.
- Piping for the new chillers is in fabrication.
- Continued to field measure and layout for the installation of new duct work, piping, and equipment continues.
- Miscellaneous electrical conduit rough-in work was completed in 2<sup>nd</sup> Floor Corridors in Areas “A”, “B” & “C”.
- All new HVAC units are on site with the exception of Chiller CH-1 expected to arrive in mid-November.
- First crane mobilization for the installation of the new rooftop equipment is scheduled for July 6, 2022.

Twin Valley High School – Select work days/weekends and then day shift during summer.

- All work moved to day shifts on June 13, 2022.
- Completed the removal of ceiling tile in corridors including supporting of the existing lights and devices.
- Completed the installation and testing of chiller piping in all areas.
- Completed the installation of new ductwork in 2<sup>nd</sup> Floor of Corridor/Classroom in Area “A”.
- Installation of new ductwork in Areas “A”, “B”, and “C” is ongoing.

- Delivery of new rooftop curbs for new rooftop equipment were received.
  - Field measurement and layout for new duct work, piping, and equipment continues.
  - Layout and wall/floor/ceiling penetrations continued.
  - Installation of new rooftop equipment curbs Area "A" complete.
  - Installation of new gas piping to new rooftop equipment is ongoing.
  - Structural modifications for new rooftop equipment is ongoing.
  - First crane mobilization for the installation of the new rooftop equipment is scheduled for July 18, 2022.
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### **July 2022 Planned Progress**

Twin Valley Elementary Center – Day shift during the summer.

- Removal of ceiling tile in corridors (including supporting of existing lights and devices).
- Field measuring and installation of new duct work and piping.
- Electrical conduit rough-ins to continue.
- Installation of new rooftop equipment.
- Replacement of ceilings as work completes.
- General clean up every day.

Twin Valley Middle School – Day shift during the summer.

- Removal of ceiling tile in corridors (including supporting of existing lights and devices).
- Field measuring and installation of new duct work and piping.
- Electrical conduit rough-ins to continue.
- Installation of new rooftop equipment.
- Replacement of ceilings as work completes.
- General clean up every day.

Twin Valley High School – Day shift during the summer.

- Installation of natural gas lines and duct work on roof continues.
- Removal of ceiling tile in corridors (including supporting of existing lights and devices).
- Field measuring and installation of new duct work and piping.
- Electrical conduit rough-ins to continue.
- Installation of new rooftop equipment.
- Replacement of ceilings as work completes.
- General clean up every day.