



Fleet Elementary School

Community Newsletter (December 2017)

This is the December update on the status and progress of construction for the project. All monthly updates will also be posted to the project website and can be accessed via the following link:

<https://www.apsva.us/design-and-construction/new-elementary-school-jefferson-site/>

The excavation of the 2-level underground parking garage is complete at this time as are Support of Excavation (SOE) activities associated with the garage.

The completion of the garage excavation has allowed waterproofing of the garage foundation walls to commence. The waterproofing material is being attached to the SOE piles and lagging, as this will serve as the formwork for the outside wall of the garage foundation when the concrete walls are poured.

Footing and foundation construction for the lowest level of the garage will start during the last week of December.

Excavation of the future bus loop is nearly complete, and stone is currently being installed to stabilize the subgrade so that the loop can serve as an access road for construction vehicles within the site during construction.

Geothermal well field work is ongoing. Currently all wells in the well field north of the garage excavation (under the bus loop) are bored and have circulating piping installed. These wells will be grouted over the next week or so. Meanwhile, the drilling of the well field south of the garage excavation has just commenced and will continue through the month of January.

As a reminder, each well field, north and south, consists of approximately 36 wells (for a total of 72), in 6 circuits of 12 wells each. Each vertical well will be drilled to a depth of approximately 560 feet. The wells are of a closed loop type, meaning that we do not circulate ground water within our geothermal piping. Instead, the circulating fluid within the wells is contained in piping and the piping is encased in grout. Heat exchange between the geothermal fluid contained within the pipe and the surrounding earth is through the grout. The geothermal wells are part of the geothermal heating and cooling system for the school, and will contribute greatly to the project's net-zero energy goals by reducing energy use for heating and cooling.



COMPLETION OF 2-LEVEL UNDERGROUND GARAGE EXCAVATION



VEHICLE RAMP INTO GARAGE EXCAVATION



TEMPORARY STAIR FOR ACCESS TO GARAGE EXCAVATION



WATERPROOFING OF GARAGE FOUNDATION WALLS



WATERPROOFING OF GARAGE FOUNDATION WALLS



BUS LOOP EXCAVATION



BUS LOOP GRADING AND STABILIZATION



GEOHERMAL WELL DRILLING AT WELL FIELD UNDER THE BUS LOOP



GEOHERMAL WELL DRILLING AT WELL FIELD SOUTH OF GARAGE

To expedite construction of the building structure (both for structural concrete and steel), a tower crane will be erected on site within the building pad. We are still working out the exact location of the crane to minimize impact on adjacent neighbors and maximize effectiveness for the work onsite. A crane permit will need to be pulled for erection and operation. We are targeting permit approval early in January of 2018 so that the crane is ready for operation later in the month.

Construction of improvements to the west side sidewalk at S. Old Glebe Rd will commence within the next couple of weeks. A right of way (ROW) permit is required for this work and the application for that permit has recently been submitted. The goal of the sidewalk improvements is to provide a clear 4-foot-wide path on the west side sidewalk from the 1st Road S. intersection to the northernmost extent of the project. Currently, there are utility poles right in the middle of the sidewalk at several locations. While the project does not have sufficient funds to move the poles out of the sidewalk (which is a very expensive operation) the county has approved installation of sidewalk nubs around the poles that will result in the 4-foot-wide clear access path. This work will require that portions of the sidewalk and parking lane on the west side of the street be closed while the work is taking place. We will provide additional notice to affected parties once the ROW permit is released and we have a more specific schedule for the work in place.

Please contact me with any questions you may have regarding this update. Happy Holidays to all and best wishes for a prosperous New Year!

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