



Fleet Elementary School

Community Newsletter (January 2018)

This is the January 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 steel & wood structure supporting the excavation, which will remain in place serving as the formwork for the outside wall of the garage foundation when the concrete walls are poured.

Footings and foundation installation at the lowest level of the garage excavation has commenced. Concrete construction of the 2-level underground garage will be ongoing for approximately 4 months.

Excavation of the future bus loop is complete, and stone has been 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, circulating piping is installed, and wells are grouted. Meanwhile, the drilling of the well field south of the garage excavation is nearing completion.

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.



COMPLETED 2-LEVEL UNDERGROUND GARAGE EXCAVATION



WATERPROOFING OF GARAGE FOUNDATION WALLS



WATERPROOFING OF GARAGE FOUNDATION WALLS



GARAGE FOUNDATION WALL WATERPROOFING DETAIL SHOWING FOUNDATION DRAINAGE



POURING FOOTINGS AT LOWEST GARAGE LEVEL



BUS LOOP STABILIZATION WITH STONE BASE



BUS LOOP STONE BASE



STAGING OF GEOTHERMAL WELL FIELD PIPING



GEOTHERMAL WELL DRILLING AT WELL FIELD SOUTH OF GARAGE

A mobile crane has been mobilized to the site to expedite construction of the 2-level underground garage. We are still looking at the possibility of erecting a tower crane on site to assist with this effort. Additional details will be provided in the next construction update.

Construction of improvements to the west side sidewalk at S. Old Glebe Rd will commence in early February. A right of way (ROW) permit is required for this work and has been received. 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. Notice to adjacent neighbors has been provided with details of the work scope and schedule.

Please contact me with any questions you may have regarding this update.

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