

Facilities Meeting – Tuesday, March 25, 2014

Stadium Project-Artificial Turf – George Moore, Architectural Studios

Robert Smith: History of the Retention Pond

- The original design was an under the field retention system. Bids were received as part of the SHS Renovation Bid Process. They were rejected because they were too high (March 2013).
- At a special meeting in March 2013, an above ground drainage basin was discussed in the field in front of Quakertown Elementary. These bids were received on March 4, 2014. They were unacceptable to the Quakertown Elementary Parents.
- Liberty Engineering, the engineers of record for the project, redesigned it again. This time it involved a deeper stone bed under the field and the overflow would go into a long concrete pipe under part of the Quakertown Field. This would gradually flow into the borough's sewer system. The Quakertown elementary field would be intact.

Paul Szewczak:

- The project engineer provided more detail and a site plan. Construction of the Concrete Retention Pipe would only take up 1/3 of the field so there would be room for students to play on 2/3 of the field and it would accommodate an event that was scheduled for May.

Paul Stepanoff:

- Wanted to know if lateral pipes could be put in the field to help drain the field during times of the year when it has traditionally been too wet to use.

Paul Szewczak:

- Said it could be designed as an alternate and would not be much more of a cost. He said a reason why the new retention solution should not cost much more was that there would be less excavation of the QE Field. He said this project is designed to handle the 100 year storm.

Discussion was also brought up about maintenance of the new artificial turf field; discussion about anti-bacterial treatment on the turf, whether the field would be open to the public and renting the field.

Other – Possible Installation of Solar Panels at the High School

Paul Stepanoff: Solar Panels

- \$1.5 million worth of Solar Panels on the roof through a PPA.
- Provide solar energy that is at no capital cost to the district.
- Solar Power Purchase Agreement- A For-Profit Company pays for the solar panels and enters into PPA with SD.

- Credits 30%, Depreciation 35%. For-Profit company can deduct 65% of cost through credits and depreciation.
- .17 kwh would go down to .12 kwh. The district would agree in the PPA to pay the For-Profit company .12kwh for the power produced by the Solar Panels.
- Solar Panel will cover 60% of roof area
- Ballasted Roof Mounts
- Rubber pads protect the roof
- Investor is on the hook for everything if something happens to panels.
- TENK – Series of 50 volt batteries, no arching, designed for 90 MPH winds
- George Moore from Architectural Studios stated that a Dashboard would be set up to show students how the Geothermal HVAC system works and show the energy savings over other types of systems. He said that this can also accommodate the same type of information for the Solar Array so that students can see the technology in action and the savings generated.

Next Meeting Thursday, April 3, 2014