

Lewes City Engineer comments on the Richard A. Shields Elementary School – Addition and Renovation proposal.

Upon review of the preliminary site plan for the referenced project, please note the following regarding the utilities serving the proposed renovations and additions at the Shields Elementary School:

- The 4" water service from the 12" main on Sussex Drive is acceptable as long as it meets the demand requirements from that portion of the Shields School that it serves.
- Similarly, will the existing water service from Savannah Road remain upon completion of the addition/renovations? If not, it should be cut and capped as near as feasible to Savannah Road.
- The 6" fire service from the 12" main on Sussex Drive is acceptable – it will require backflow prevention; the backflow prevention can be inside the building and usually is part of the sprinkler system piping. If the sprinkler system is wet and utilizes anti-freeze, the backflow preventer should be a reduced pressure zone assembly similar to a Colt Series 400 N type; if the sprinkler system is wet without using anti-freeze, the backflow preventer should be a double check valve assembly similar to the Ames 2000 type.
- The 6" sanitary sewer service to the 10" sewer main on Sussex Drive is acceptable as long as it meets the load from the portion of the Shields School that it serves.
- Similarly, will the existing sewer service from Savannah Road remain upon completion of the additions/renovations? If not, it should be cut and capped as near as feasible to the School.
- The proposed stormwater facility nearest Savannah Road shows an outfall pipe to the storm drain system on Savannah Road. Will the post-development runoff amount be equal or less than the pre-development amount? If the post-development runoff is greater than existing, then a downstream analysis of the Savannah Road drainage system should be completed.
- As previously communicated, a 20' foot wide utility easement is required for the storm drain exiting School property and discharging into Blockhouse Pond. The drain pipe should be located in the center of the easement.
- Though it doesn't effect water and sewer service to the new School, there appear to be some discrepancies with the existing sewer system shown in Savannah Road from the actual conditions. This can be worked out as the project moves forward.

If there are any questions, please contact me. Thank you. Charlie

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