

Engineering has reviewed the plans for the City of Wilmington Police, Fire and City Training Facility project submitted October 11, 2017 for TRC review and have the following comments:

1. The project, because it is owned by the City of Wilmington, will require a state stormwater permit. The city cannot permit its own projects.
2. The project proposes more than 10,000sf of newly constructed impervious surface area and will require City Stormwater Management review. Please submit one full set of plans, a Stormwater Management Permit Application Form, calculations and a \$1000 review fee to Engineering. CoW Engineering will review grading, drainage, compliance with the city's technical standards and the city's 2, 10 and 25-year pre/post requirements. Please include a digital copy of the entire submittal package. Please note our review times are approximately 30-45 days right now. Please factor this into your submittal schedule.
3. Provide wetland delineation map.
4. The Hurst Street entrance will need to be the City standard commercial driveway (CoW SD 3-03.3-4).
5. The design is utilizing gravel pavement in some of the parking stalls. Gravel pavement (8" ABC) is considered impervious. Is the intent for a pervious surface? Please explain. Also, City code states that facilities with more than 25 spaces must be paved with concrete or asphalt material or an alternative paving material (Section 18-529). Gravel will not meet that requirement.
6. Are the brick pavers at the front of the building to be considered pervious or impervious?
7. Please provide the wetland delineation and wetland impact permit. Please define the actual area of disturbance to ensure that it is under the 0.10 acre threshold.
8. Can the piped system that is conveying offsite drainage be revisited? The angle the swale makes with the pipe is a tough one. We can discuss this more at TRC. An offsite drainage analysis will need to be submitted for the piping conveying the water from the eastern side to the wetlands. Calcs will be needed for the proposed swale too.
9. The pipes around the front stormwater wetland have some of the same issues.
10. Provide an inlet drainage area map with each inlet area labelled, delineated and listed.
11. Provide a drainage area map for each SCM (labelled, delineated and listed).
12. Provide entire Pre and Post-development watershed maps.
13. Piped collection systems shall be designed for the 10-year frequency storm event and analyzed for the 50-year frequency storm event to check the system for flooding.
14. City standard details must be latest pdf version downloaded from city website.
15. Show compliance with the 500'/800' rule or provide a written variance request to Engineering that illustrates the hardship that keeps the project from meeting the requirement.
16. Please provide all appropriate details to support stormwater management systems.

Please call or email if there are any questions. Thank you.