TRISTATE ENGINEERING & SURVEYING

October 20, 2022

The City of Millville
12 South High Street
Millville, NJ 08332

RE: Site Plans
700 Orange Street
Block 574 Lot 3
Millville, NJ 08332

We have revised the Stormwater Management Report for the referenced project and offer the following additional responses to the comments as numbered in your memo:

1. Ground water mounding calcs
Response: Enclosed please find the groundwater mounding calculations.

2. Maintenance plan
Response: Enclosed please find the stormwater maintenance manual.

3. Time of concentration analysis
Response: Please find the drainage area plans and calculations as part of the revised stormwater management report. The summary page at the beginning of the stormwater report lists the Tc for pre- and post-developed conditions. The pre-developed Tc path is shown on the pre-developed drainage area map and is shown on the summary page for the pre-development subcatchment (page 6 of pre-developed conditions). The post-developed Tc path is assumed as a design minimum of 10 minutes as shown on the pipe calculations and the summary page for the post-development subcatchment (page 12 of post-developed conditions).

4. Numerical analysis
Response: Please find the routing tables as part of the revised stormwater management report.

5. Pipe calculations
Response: Please find the pipe calculations as part of the revised stormwater management report.

6. 2/10/100 year storm elevations (they indicated a typical was submitted but they need specific for the basins)
Response: Our report has been calculated for the 2/10/100-year storms using two models, the large basin and the chain of rain gardens. The rain gardens are modeled together, being that they are interconnected in their design. If one rain garden were to fail, it would overflow to the proceeding rain garden, and then to the large basin. The primary goal of the rain gardens is to provide water quality treatment upstream of Basin #1.

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7. Time to drain (evacuation) calcs

Response: Please find time to drain calculations as part of the revised stormwater management report.

8. Permeability test results

Response: Our calculations assume 0.5 in/hr permeability rate as a minimum for this report. We are requesting that this be considered a condition of approval and will submit permeability tests as a supplemental submission once they are performed. Initial investigation indicated that soils throughout the site are comparable to those found in test pits #1-4.

Enclosed for your review and approval, please find the following:

- Revised Stormwater Management Report, revised October 2022 (1 copy)
- Groundwater Mounding Calculations (1 copy)
- Stormwater Maintenance Manual (1 copy)

If you should have any questions, or require anything further, please do not hesitate to contact me.

Sincerely,

Joseph A. Mancini, PE, PP

C: Wayne Johnson, PE, CPWM (1 copy)
Angelo Gaudelli (via email)
Michael Fralinger, Esq. (via email)