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CIVIL ENGINEERING - LAND DEVELOPMENT - SITE PLANS - STORMWATER MANAGEMENT

June 25, 2024

Response to Steve Masalin, Public Works Director/Town Engineer
Comments Dated June 11, 2024
96, 98, 100 Stoddards Wharf Road(PZ #24-2RESUB)

The plans and Stormwater Management Report, along with the calculations, have been revised to address the subject comments.

Comment A.1. The outlets of both retention/infiltration areas have been revised and clarified. Page 8 of the calculations and Sheet 4 of 8 of the plans, show a detail of an inspection port. The access port will be outfitted with a grate and a concrete collar. The "3-foot long rectangular weir" in the calculations is actually the 3-foot in circumference inspection port. The HydroCAD calculations for Retention Area #2 calls for a 3-foot weir at elevation 144, for modeling purposes only. The "weir" is actually the access port at elevation 147. Retention Area #2 is similar. For the 100-year rainfall event, Retention Area #2 will overflow 1.34 CFS at 0.3' deep, with a non-erosive flow velocity of 1.48 feet per second. The surrounding area is flat, (2% slope) and the flow direction at the outlet will be radial in direction, converting it to sheet-flow and the overflow will last for a short period of time.

Comment A.2.a. The calculation pages: 6, 6A and 6B now show pre versus post peak flows for the 2, 5, 10, 25 and 100-year storms.

Comment A.2.b. Runoff from the roofs are now included in the calculations. The 'C' coefficient has been adjusted due to the infiltration of 1" (one inch) of runoff. 'C' was adjusted as follows: 1" divided 7.1 (100-yr, 24 hour rainfall) = 14% infiltration. Therefore the roof runoff 'C' is 0.86 or 86%.

Comment 3. More details have been added to the plans and calculations.

Comment 4. Gutterflow Analysis and Storm Sewer System Design is added to the calculation on pages 4 & 5.

Comments B.1. and B.2. More details have been added to the plans and calculations.

Submitted by:
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