



155 E. Front Street (rear-carriage house)
Lititz, PA 17543 P (717) 625-1930 F (717) 625-1931 www.VisionEngineeringInc.net

May 26, 2020

Caernarvon Township Supervisors
2139 Main Street, Narvon, PA 17555

RE: Monthly Engineers' Report (NO PLANNING OR SEO ITEMS)

As an update, this office has worked on the following matters this past month. Any projects requiring action are highlighted (yellow). We could answer any questions or would welcome feedback and direction on any and all matters.

1. **Knobby Hill Stormwater**. We continue our work on the final design and bidding documents as time permits.
2. **Township garage site improvements**. We continue our work on the grading and driveway layouts, we recently received the building information (elevations) from the Architect and will continue the site grading in the coming weeks.
3. **Zoning & Stormwater Follow up**
 - a. **2747 Valley View Road (DIEHM)**. We are awaiting contact by the owner to discuss with his site Engineer to develop an overall stormwater plan for further review and compliance.
 - b. **501 Edwards Road (Glick)**. This office had forwarded the Board with further correspondence and details related to the zoning permit issued (2014). And are awaiting direction on this matter.
4. **Historic Poole Forge (Streambank) PERMIT EXPIRATION**. As directed, we will process the appropriate permit extensions for the NPDES permit for a five (5) year time extension to be consistent with the Joint Permit expiration date. We will also initiate an extension request for the Joint Permit for an additional five (5) years (currently due to expire 12/31/2020) as directed by the Board.
5. **STORMWATER MANAGEMENT (SWM) PLAN ACTIVE PROJECTS FOR BOARD UPDATES ONLY (NO ACTION)**: The following stormwater applications do NOT require Board Consideration/action at this time.
 - a. ***013102 - BRUBACHER SWM PLAN**. (Approval July 2017) Awaiting final compliance submittal and start work date (**DUE TO EXPIRE 7/2020**). We sent a letter notifying the applicant of the plan expiration. The applicant indicated the work will be completed this summer.

- b. **015104 - Twin County Rd. (Q. Shirk) SWM Plan.** This project has commenced with the work, but seems to have been suspended. The work was activated (2018), but has been inactive since that time (incomplete). We spoke with the owner who is awaiting a new contractor (RS Brubacher) to contact us for completion and inspections (this spring).
- c. **015106 - Edwards Rd. (Verizon) SWM Plan.** The contractor has completed the work but the corrective actions requires the filing (recording at court house) of an amended plan. We are working with the applicants engineer accordingly.
- d. ***016110 - Ivan Smucker SWM Plan.** This plan has been under construction (2018) & inspections. We are awaiting final completion (DUE TO EXPIRE 2020).
- e. **017102 - Valley View Road SWM Plan (Sasso).** As discussed, we are working with the Township Solicitor in resolving the outstanding items for this project (incomplete but bank released funds). **At this point, we will coordinate an updated inspection to create a final punch list of items** (upon lifting of COVID restrictions) and are awaiting responses from the Bank.
- f. ***018103 WAWA Land Development & SW Plan.** This past month the Contractor continued installing some of the perimeter stormwater pipes and the underground stormwater system. We have been observing as needed. (*Daily reports separate ATT).
- g. **019102 2645 Wood Ln. Miller Stormwater Plan.** As an update, the stormwater system has been adequately installed (May, 2020) per the plans and is now waiting final site stabilization.
- h. **019103 Stormwater Management Plan for Pinnacle Premier Properties, LLC** (6980 & 6950 Division Highway). PROJECT is under construction (awaiting inspections).
- i. **019107 Lambert Road Emmanuel Lapp (SWM Plan).** The Board conditionally approved this plan (12/9/19) and is under construction (awaiting inspections).
- j. **020101 - 2449 Hammertown Road (STOLTZFUS).** The Board conditionally approved this plan (3/2/20) and is under construction (awaiting inspections).

6. Compliance and Violations:

- a. ***281 Gehman Road complaint.** This office responded to a complaint about work being completed at the property. We determined the

work was subject to the jurisdiction of the Lancaster County Conservation District and notified all parties accordingly.

- b. ***SLAWKO Stormwater Plans.** Awaiting further direction by the Township Solicitor's office on this matter. A recent MEMO issued by the Solicitor (4/24/20) is looking for further direction from the Board on how to proceed.
 - c. **Conrad/Blevins Stormwater Violation.** We have been working with the Township Solicitor (Susan Peipher) as needed and directed accordingly
7. **STORMWATER EXEMPTIONS (UNDER 1,000 SQUARE FT.).** This office has reviewed/issued the following this past month (none):
8. ***SMALL STORMWATER PROJECTS (1,000 SQUARE FT. TO 5,000 SQUARE FT.).**
This office has reviewed/issued the following this past month:
- a. **CAERN 020303 6146 Div. HWY. MILLER (PENDING; AWAITING MORE INFO** from applicant).
 - b. ***CAERN 020313 6131 Division Hwy CARTER.** Shed (200 SF).

We also worked on various other items that have come before us as needed and will continue them as needed and directed.

Respectfully,
Vision Engineering, Inc.
Caernarvon Township Engineer

John K. Roche, P.E.,
President



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May 14, 2020

Benuel K. & Mary Ann Stoltzfus

281 Gehman Road
Narvon, PA 17555

RE: Inquiries for 281 Gehman Road (#050-37260-0-0000), Caernarvon
Township, Lancaster County

Dear Mr. & Mrs. Stoltzfus,

I am following up on a telephone conversation we had in response to some inquiries made about an ongoing project at the above referenced property. During that conversation, you stated that you did clear some woods and are planning on getting ground cover on the area. I explained that you should contact the Lancaster County Conservation District (LCCD) as they may require certain permits and procedures related to the work you completed. I also explained that you should be careful that no disturbed areas erode but are protected and that you need to restore some type of ground cover as soon as possible. You stated that you understood what was required. We also spoke generally about what is typically required to ensure compliance until the ground can be stabilized with a ground cover. I also referred you to Ryan Weck at the LCCD and suggested that you contact him directly as he will be able to assist you in determining specifically what would be required because the regulations are the LCCD's to enforce/interpret not the Townships. I further advised you that since you are over 5,000 square feet of disturbed area, you should definitely be speaking with the LCCD. You also stated that you have future plans such as putting up a small barn and installing a parking area, etc. I explained to you that the future work you described would require permits and that you should make initial contact with Robin Royer, Caernarvon Township Zoning Officer to discuss the work. She can advise on what permits may be necessary. If you would have any questions at all please feel free to contact us.

Respectfully,

Vision Engineering, Inc.

Caernarvon Township Engineer

John K. Roche, P.E.

A handwritten signature in black ink, appearing to read "John K. Roche", written over a horizontal line.

cc: Kathy Norris, Caernarvon Township Secretary, Ryan Weck (LCCD) & File



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David S. Carter

May 13, 2020

6131 Division Highway
Narvon, PA 17555

RE: **SMALL SW Project 6131 Division Highway PERMIT CAERN-020313 -
Install New SHED (10'x20' = 200 SF) TOTAL NOT TO EXCEED OF 200
Square Feet of New Impervious for STORMWATER**

Dear Mr. Carter:

We have reviewed the above Application in accordance with the current Caernarvon Township SWM Ordinance (2014). Based on your project with **200 square feet (SF) of net impervious area**, an **infiltration volume of 17 Cubic Feet (CF) or 125 gallons** is required. Construct an infiltration facility (BMP) with a **void (storage) volume of 17 CF or 125 Gallons** or more to **receive the runoff from the proposed improvements (or other equivalent impervious area)**; examples/options as follows (select ONLY one BMP below):

1. Install a shallow **rain garden** with minimum dimensions of **8 feet long by 2 FEET wide** (or equivalent area) and a **depth of no more than six (6") inches**.
OR.
2. Install a **Stone Trench/Bed** with minimum dimensions of **17 feet long by 2 feet wide by 15" deep** (or equivalent area) **no more than (15") deep**.
3. **OR** Install a Rain Barrel with 125 gallons of Storage or more (for water reuse in watering, etc.).

NOTE: BMP's shall be kept away from ROAD, driveways, property lines, septic tank, drain field, sand mound, **well**, building foundation and outside of easements and right-of-ways. If you meet the above conditions in implementing the improvements shown on your plan you can consider this letter as your **STORMWATER PERMIT** for the project and **are considered compliant**. Please also take note of the **enclosed brochure regarding your stormwater facilities (BMP's)**. Hopefully, this information gives you a better understanding of these improvements. Any questions at all please contact our office.

Sincerely,

Vision Engineering, Inc.

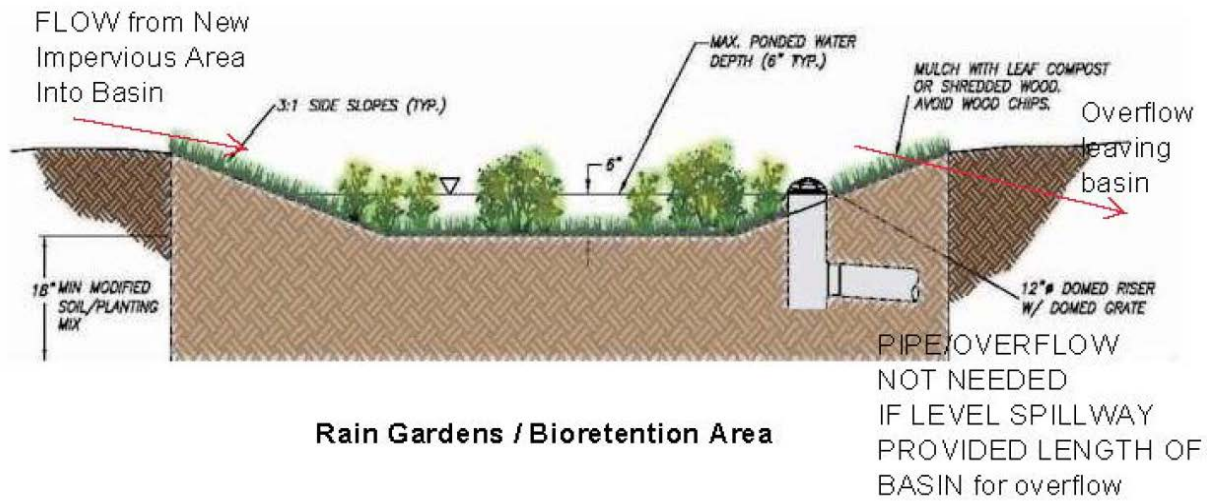
Caernarvon Township Engineer

A handwritten signature in black ink, appearing to read "John K. Roche", written over a horizontal line.

John K. Roche, P.E.

Enclosures BMP Manual (brochure) & SKETCH

cc: Caernarvon Township, Robin Royer & FILE



Stone Trench Details Below (see PERMIT)
 Pipe is not necessary for trench placed alongside of driveway. Flow from driveway directed into Trench overland.

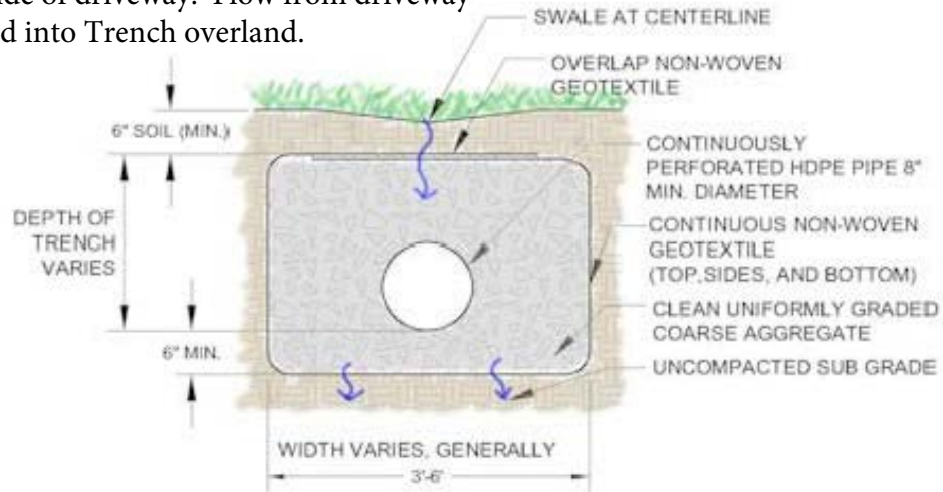


Figure 6.4-1

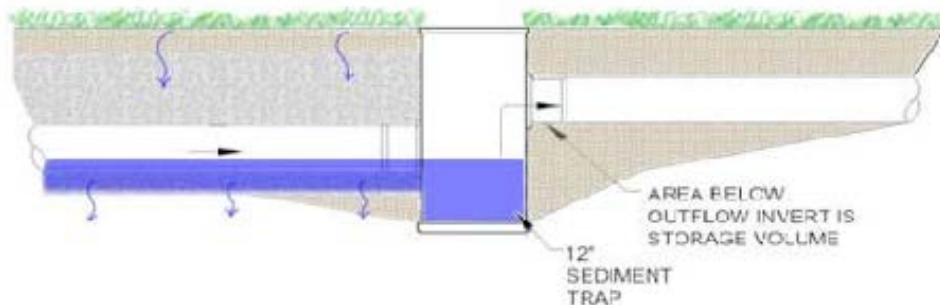


Figure 6.4-2

Description

Cisterns, Rain Barrels, Vertical Storage, and similar devices have been used for centuries to capture storm water from the roofs of buildings, and in many parts of the world these systems serve as a primary water supply source. The reuse of stormwater for potable needs is not advised without water treatment, although many homes in the U.S. were storing water in cisterns for reuse as little as a century ago. These systems can reduce potable water needs for uses such as irrigation and fire protection while also reducing stormwater discharges.

Storage/reuse techniques range from small, residential systems such as Rain Barrels that are maintained by the homeowner to supplement garden needs, to large, “vertical storage” units that can provide firefighting needs. Storage/reuse techniques are useful in urban areas where there is little physical space to manage storm water.

Variations

Cisterns – large, underground or surface containers designed to hold large volumes of water (500 gallons or more). Cisterns may be comprised of fiberglass, concrete, plastic, brick or other materials.



Rain barrels – barrel (or large container) that collect drainage from roof leaders and store water until needed for irrigation.

