

Town of Williston  
7900 Williston Road  
Williston, VT 05495

1763

Public Works  
(802) 878-1239

## MEMORANDUM

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To: Ken Belliveau, Town Planner  
From: Lisa Sheltra, PW Assistant Director  
CC: Bruce K. Hoar, Public Works Director  
Date: December 20, 2017  
RE: DP 17-01, North Ridge

Public works has completed a technical review of the above referenced plan. Project shall conform to the latest Public Works Standard Specifications. As-Built plans and Engineering Certifications are required at the completion of the project, prior to Certificate of Occupancy (CO). Please provide a **written response** to the following items prior to receiving approval for the project:

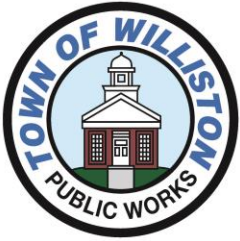
### Public Works:

1. No need for so many cross walks on Asher Circle
2. FD drains need to be disconnected from storm sewer system and daylight.
3. Remove street lights and signage from 40 scale and profile plans
4. Remove the stubs for future water and sewer.
5. Identify the culvert material and size and show on the profiles.
6. Must have 24" sump for catch basins
7. 15" crushed gravel under the path.
8. Remove stop signs on Asher Circle
9. Sewer seems deeper than necessary, please review and adjust
10. All fees and application need to be in place prior to AP

### Stormwater:

- Why are Tier 1 or Tier 2 practices not proposed for this site?
  - o The 2017 Vermont Stormwater Manual requires that, when no structural treatment practices (STPs) already exist on a site the designer shall evaluate use of the Tier 1 STPs. If, based upon completion of the permit application materials, use of Tier 1 STPs is feasible, then the designer shall use Tier 1 STPs. If, based upon completion of the permit application materials, use of Tier 1 STPs is infeasible, then the designer shall evaluate use of Tier 2 Practices. Tier 3 Practices may only be used if Tier 1 and Tier 2 practices are infeasible.
  - o Given the hydric nature of the soils Type 2 practices may be more feasible. A gravel wetland (Tier 2 practice) should be designed in place of a wet pond (a Tier 3 practice). Additionally, to reduce the load to the gravel wetland system, this site should contain bioretention filtration systems dispersed throughout the development such as between the lots within

The applicant must obtain the signature of DPW staff on the Final plans Checklist showing that the final plans address the above comments prior to submitting final plans to the Planning and Zoning staff for review and approval.



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- Asher Circle, in the common area within Zoey Drive and on the West side of the intersection between Asher Circle and Kadence Road.
- Vehicular access should be included to facilitate maintenance to stormwater infrastructure. At a minimum for a system such as a wet/dry pond or gravel wetland this will include access to the forebay and outlet structure.
    - o Given that the Town of Williston is expending significant funds and resources to update a number of neighborhood stormwater systems which have failed to be maintained for decades do, in part, to the lack of access to these structures it seems paramount that the Town require adequate access to all future stormwater infrastructure. This developments location within the Allen Brook watershed and its proximity to recently updated stormwater systems which contain the vehicular access mentioned above would indicate that this is a needed measure in this area.
  - Recommendation #1 requested a DEC functional stream classification opinion, none was provided or discussed in the response dated 11/22/17. Please provide an answer to this request.
  - Class II Wetlands are being intersected and replaced by Kadence Road. Class III Wetlands are proposed to be filled into facilitate the creation of two more lots.
    - o Please provide an opinion from DEC Wetlands as to the required offsets for these activities. Please also provide a DEC Wetlands opinion as to if the Class III wetlands as mapped on the plans dated 11/21/17 are hydrologically connected or otherwise considered connected to the adjacent Class II wetlands. The proximity of these two wetland classes may in fact result in a change in classification. If this is the case, perhaps removing lots requiring filling wetlands would be a preferred approach.

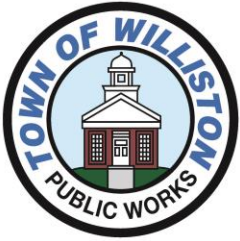
Independent Review comments:

Plan Sheet 5

1. Show a profile and outlet elevations for the outfall pipe from the new stormwater pond.

Plan Sheet 6

1. Provide the information on the existing utilities in Metcalf Drive at the intersection with Kadence Road. For water and sewer, show pipe sizes, material, and flow directions. Also provide details for the interconnect of the water and sewer. For the sewer, a core and boot need to be installed in existing SMH and the invert needs to be reconstructed.
2. Why is the new waterline shown so far off edge of roadway? Hydrants should be on backside of waterline with hydrant tee, valve, and hydrant.
3. The new waterline shall be installed with a minimum 6' of cover. Show on profile.
4. The new sanitary sewerline is deeper than needed, especially from SMH #14 to SMH #12. Shallow the sewer and consider an interior drop if needed.



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#### Plan Sheet 7

1. The new waterline needs to be shown within the right-of-way not on the edge of the right-of-way.

#### Plan Sheet 12

1. On catch basin detail, roadway underdrain needs to enter at top of outlet pipe.
2. On the stormwater pond section, provide the elevation for the top of the outlet structure and confirm the available freeboard is sufficient as top of bank is shown at elevation 465.0'.

#### General

1. Depth of new sanitary sewer is more than needed, so shallow up wherever possible while still maintaining appropriate vertical separation with the waterlines.
2. There has been a past history of drainage issues on this section of Metcalf Drive. Flooding of basements has occurred from the foundation drains connected to the storm system and excessive surface runoff contributed from Coyote Lane into Metcalf Drive. No storm system is shown on Kadence Road from Station 10+00 to 14+00, and the steep slope proposed on Kadence Road is a concern with directing surface runoff into Metcalf Drive. Storm drainage shall be provided in this area and additional information shall be provided to confirm that there will be no additional surface runoff directed into Metcalf Drive from this project.
3. The roadway underdrain needs to be shown on the plan and profiles with invert elevations, connection points, and locations of cleanouts where needed.