



TOWN OF EAST GRANBY

INCORPORATED 1858

ENGINEERING DEPARTMENT
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May 3, 2023

Inland Wetlands & Watercourses Commission
Town of East Granby
P.O. Box 1858
9 Center Street
East Granby, CT 06026

Re: IWWC Appl. #CC23-02
Bramble Bush Village
East Street
East Granby, CT

Dear Mr. Chairman:

We have reviewed the following regarding the above referenced application as submitted with regard to potential impacts to the Inland Wetlands to include work to be completed in the upland review area.

1. Engineering Plans prepared for The Bramble Bush Village, A Multi-Family Development, East Street/Bramble Bush Circle, East Granby, Connecticut, dated march 24, 2023, Scale: As noted, to include the following sheets:
 - Title Sheet
 - Master Plan, Sheet MA-1
 - Layout Plan, Sheets LA-1 & LA-2
 - Grading and Drainage Plan, Sheets GR-1 & GR-2
 - Plan & Profile, Sheets PP-1 thru PP-3
 - Soil Erosion and Sediment Control Plan, Sheet EC-1 & EC-2
 - Utility Plan, Sheets UT-1 & UT-2
 - Details, Sheets SD-1 thru SD-5
 - Notes, Sheet NT-1
 - Improvement Location Plan, Sheets ILP-1 & ILP-2

2. Memorandum, Bramble Bush Redevelopment Hydrologic Analysis to include Drainage Mapping, dated March 24, 2023 as completed by F.A. Hesketh & Associates, Inc.

ENGINEERING COMMENTS:

Drainage Analysis:

1. We have reviewed the drainage analysis and take no exception with the analysis. The Water Quality Basins have been increased in size to accommodate, treat, and attenuate the net increase in flow based upon the latest NOAA Atlas 14 rainfall intensities. The analysis includes the storage of all storms up to and including the 100 Year Storm Event.

Sheet EC-1:

1. Based on Sheet GR-1, it appears that the existing 12' RCP is to be replaced with a 15" RCP. Recommend installing perimeter erosion controls between the proposed culvert and the limit of inland wetlands.
2. Recommend the installation of perimeter erosion controls directly downslope of the grading proposed outside of the Water Quality Basin #1 on the northwest end of the basin.

Sheet EC-2:

1. Extend the SFEC which is located south of WQB #2 to the east to encompass the 170 contour.
2. Install SL below WQB #2 and WQB #3 outfalls, which are to be reconstructed. Add a note to both areas indicating that all disturbed area(s) shall be loamed, seeded, and mulched as required.

Sheets EC-1 & EC-2:

1. Install Erosion Control Blankets (ECB) within **all** proposed swales to include between buildings. I understand that many of these swales are in gentle sloping areas (less than 3:1 slopes), however, it is my experience that during intense periods of rainfall, the shallow concentrated flow may potentially erode the bottom of the swales displacing the loam.

2. Only one Temporary Soil Stockpile (TSS) is shown on sheet EC-1. Recommend the addition of another TSS to the west on Sheet EC-2.
3. Understanding that this site has been idle for many years, any required clearing limits in the vicinity of the outfalls for WQB #2 & #3, shall be added to the plans. Trees/brush shall be cut to the ground and the stumps shall be left in place.
4. Add Dust Control (DC) to private road as shown on Sheets EC-1 & EC-2, and to the Town Road on Sheet EC-1.

Sheet NT-1

1. Regarding Note #1 Special Inland Wetlands Provisions should include the Tree Warden.
2. Regarding Note #6 Special Inland Wetlands Provisions, “..... Disturbed slopes 3:1 and steeper, **or as indicated by hatching as shown on Sheets EC-1 and EC-2.**”
3. Erosion and Sediment Control Notes, Note 13 should be revised to indicate, “.....**work within the Upland Review Area.**”
4. Erosion and Sediment Control Notes, Note 15 should be revised to indicate, “.....removal of sediment and/or debris from the **private as well as the Town of East Granby’s** storm drainage system.....”

Conditions of Approval:

1. If required during the construction process, add additional sediment traps in areas where runoff does not flow to the Temporary Sediment Basins.
2. All Water Quality Basins shall be utilized as Temporary Sediment Basins and shall be cleaned of all sediment once the site is stabilized and turf is established at 70% or more.
3. All grass lined swales shall be cleaned of all sediment/debris prior to loaming and seeding.
4. The Property Owner shall be named on the plan as the Responsible Party for the maintenance of the Erosion and Sedimentation Control Measures. Provide a 24-hour Emergency Contact telephone number.
5. A Pre-Construction Meeting shall be scheduled with the Town of East Granby staff and the Town Engineer.

6. The Town Engineer and/or the Town of East Granby staff shall make inspections of the site at construction milestones as determined at the Pre-Construction Meeting. Additional inspections will be made throughout the construction process, until the site is stabilized with a permanent vegetative cover, as determined by the Town of East Granby staff and/or the Town Engineer.
7. During the construction process, the Owner/Developer/General Contractor shall add erosion and sedimentation control measures as deemed necessary by the Town Engineer.
8. Inspections of the erosion and sedimentation control measures shall be completed daily, prior to impending inclement weather, and after every rain storm event of 0.5 inches of rainfall or greater. The required repairs and/or maintenance of all erosion & sedimentation control measures shall be completed by the General and/or Site Contractor immediately after the inspection(s) and until a permanent vegetated cover is established (70% turf establishment).
9. The Design Engineer or a Certified Erosion & Sedimentation Control Specialist shall inspect the site once per month and/or after every rain event which yields 0.5 inches or more of rainfall. A detailed report, to include photographs, shall be submitted to the Town Engineer for review.
10. The Applicant's Engineer shall provide an Erosion and Sedimentation Control Measures Bond Estimate, which shall be reviewed and approved by the Town Engineer as part of this application. The Bond shall be a cash bond payable to the "Town of East Granby".
11. Provide revised plans to the Town Engineer for review.
12. Final approved plans shall have live signature and embossed seal of the Engineer and Surveyor of record. These shall be submitted to the Town of East Granby Engineering/Building Department prior to construction.
13. An As-Built Site Improvement and Grading Plan, prepared by a State of CT Registered Land Surveyor, shall be submitted, after all of the construction is completed but prior to requesting a Certificate of Occupancy, to the Town of East Granby Engineering or Building Department for review and approval.
14. A final site inspection shall be completed by the Town Engineer prior to the release of the Erosion and Sedimentation Control Measures Bond.
15. The Applicant shall apply to the State of CT DEEP to obtain a General Permit for the Discharge of Stormwater and Dewatering Wastewater from Construction Activities.

As submitted,
Thomas D. Grimaldi
Town Engineer