

General Information

Name of Project	Spring Hill Estates – Pennie Lane	CGP Tracking No.	MAR100101V	Inspection Date	6/3/2021
Inspector Name, Title & Contact Information	Ryan Proctor, E.I.T. – Staff Engineer – 978-779-6091 – rproctor@dillisandroy.com				
Present Phase of Construction	Site Work / Material Stockpiling/ House Construction/Lot Clearing				
Inspection Location (if multiple inspections are required, specify location where this inspection is being conducted)	Map: R-1, Parcel: 27 Stow, MA 01775				
<p>Inspection Frequency <i>(Note: you may be subject to different inspection frequencies in different areas of the site. Check all that apply.)</i></p> <p>Standard Frequency: <input checked="" type="checkbox"/> Weekly <input type="checkbox"/> Every 14 days and within 24 hours of a 0.25" rain</p> <p>Increased Frequency: <input type="checkbox"/> Every 7 days and within 24 hours of a 0.25" rain (for areas of sites discharging to sediment or nutrient-impaired waters or to waters designated as Tier 2, Tier 2.5, or Tier 3)</p> <p>Reduced Frequency:</p> <ul style="list-style-type: none"> - <input type="checkbox"/> Once per month (for stabilized areas) - <input type="checkbox"/> Once per month and within 24 hours of a 0.25" rain (for arid, semi-arid, or drought-stricken areas during seasonally dry periods or during drought) - <input type="checkbox"/> Once per month (for frozen conditions where earth-disturbing activities are being conducted) 					
<p>Was this inspection triggered by a 0.25" storm event? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If yes, how did you determined whether a 0.25" storm event has occurred?</p> <p><input type="checkbox"/> Rain gauge on site <input type="checkbox"/> Weather station representative of site. Specify weather station source:</p> <p>Total rainfall amount that triggered the inspection (in inches):</p>					
<p>Unsafe Conditions for Inspection</p> <p>Did you determine that any portion of your site was unsafe for inspection per CGP Part 4.1.5? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If "yes", complete the following:</p> <ul style="list-style-type: none"> - Describe the conditions that prevented you from conducting the inspection in this location: - Location(s) where conditions were found: 					

Condition and Effectiveness of Erosion and Sediment (E&S) Controls				
Type/Location of E&S Control [Add an additional sheet if necessary]	Repairs or Other Maintenance Needed?*	Corrective Action Required?*	Date on Which Maintenance or Corrective Action First Identified?	Notes
1. Perimeter Controls	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<p>Perimeter Controls appear to be functioning properly & have been properly maintained. The silt fence has remained taught and is keyed into the existing soil. The straw wattles are overlapping at each end and are installed in front of the silt fence providing a stable barrier. The erosion control barriers currently installed on the site are for the construction activities on Lot #3.</p> <p>Silt fence and haybales were installed prior to the construction of the drainage areas, which are now stable. At this point in time, the erosion control barrier in the areas indicated on the attached site plan can be removed.</p>
2.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
3.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
4.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
5.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		

* **Note:** The permit differentiates between conditions requiring repairs and maintenance, and those requiring corrective action. The permit requires maintenance in order to keep controls in effective operating condition and requires repairs if controls are not operating as intended. Corrective actions are triggered only for specific, more serious conditions, which include: 1) A required stormwater control was never installed, was installed incorrectly, or not in accordance with the requirements in Part 2 and/or 3; 2) You become aware that the stormwater controls you have installed and are maintaining are not effective enough for the discharge to meet applicable water quality standards or applicable requirements in Part 3.1; 3) One of the prohibited discharges in Part 2.3.1 is occurring or has occurred; or 4) EPA requires corrective actions as a result of a permit violation found during an inspection carried out under Part 4.2. If a condition on your site requires a corrective action, you must also fill out a corrective action form found at www.epa.gov/npdes/stormwater/swppp. See Part 5 of the permit for more information.

Condition and Effectiveness of Pollution Prevention (P2) Practices				
Type/Location of P2 Practices [Add an additional sheet if necessary]	Repairs or Other Maintenance Needed?*	Corrective Action Required?*	Date on Which Maintenance or Corrective Action First Identified?	Notes
1. Construction Entrance	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		The site is accessed by a Road (Pennie Lane) as proposed on the recorded Subdivision plans dated June 16, 2021 Prepared by Ducharme & Dillis Civil Design Group. The construction vehicles are parked adjacent to the house that is currently being constructed in a gravel parking area. If runout or mud-tracking is observed, a construction entrance to the Lot #3 dwelling will be recommended.
2. Parking Area for Passenger Vehicles	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Construction workers are parking adjacent to the house on Lot #3 that is currently being constructed. As the working road is a private way, the existing parking area does not inhibit any sight distances along a travel way nor create any traffic concerns.
3. Waste Disposal Dumpster	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		A waste disposal dumpster is provided on Lot #3 adjacent to the house that is being constructed (See attached plan for approximate location)

* **Note:** The permit differentiates between conditions requiring repairs and maintenance, and those requiring corrective action. The permit requires maintenance in order to keep controls in effective operating condition and requires repairs if controls are not operating as intended. Corrective actions are triggered only for specific, more serious conditions, which include: 1) A required stormwater control was never installed, was installed incorrectly, or not in accordance with the requirements in Part 2 and/or 3; 2) You become aware that the stormwater controls you have installed and are maintaining are not effective enough for the discharge to meet applicable water quality standards or applicable requirements in Part 3.1; 3) One of the prohibited discharges in Part 2.3.1 is occurring or has occurred; or 4) EPA requires corrective actions as a result of a permit violation found during an inspection carried out under Part 4.2. If a condition on your site requires a corrective action, you must also fill out a corrective action form found at www.epa.gov/npdes/stormwater/swppp. See Part 5 of the permit for more information.

Stabilization of Exposed Soil

Stabilization Area [Add an additional sheet if necessary]	Stabilization Method	Have You Initiated Stabilization?	Notes
1. Stockpiles	TBD	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If yes, provide date:	SEVERAL STOCKPILE AREAS ARE LOCATED ON THE SITE AND CONSIST OF BRUSH PILES, WOOD CHIPS, TOPSOIL, AND GRAVEL. NO EROSION OR WASHOUT WAS OBSERVED ON OR AROUND ANY OF THE MATERIAL STOCKPILES. IF EROSION IS OBSERVED, STABILIZATION WILL BE REQUIRED. ALL MATERIAL STOCKPILE LOCATIONS HAVE BEEN IDENTIFIED ON THE ATTACHED SKETCH.
2.		<input type="checkbox"/> YES <input type="checkbox"/> NO If yes, provide date:	
3.		<input type="checkbox"/> YES <input type="checkbox"/> NO If yes, provide date:	

Description of Discharges

Was a stormwater discharge or other discharge occurring from any part of your site at the time of the inspection? ☒ Yes ☐ No

If "yes", provide the following information for each point of discharge:

Discharge Location [Add an additional sheet if necessary]	Observations
1. Stormwater Management Area #1	<p>Describe the discharge:</p> <p>At points of discharge and the channels and banks of surface waters in the immediate vicinity, are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue:</p>
2. Stormwater Management Area #2	<p>Describe the discharge:</p> <p>At points of discharge and the channels and banks of surface waters in the immediate vicinity, are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue:</p>

General Observations

1. The shared driveway (Pennie Lane) has been constructed.
2. The stormwater management areas have been constructed as proposed on the subdivision plans.
3. No erosion or scour was observed from the Stormwater Management Outfalls.
4. Lot #2 has been cleared and grubbed. Material stockpiles are located on the east side of the site as shown in pictures "B", "D", & "F" and on the attached plan.
5. The foundation hole for the Lot #2 house has been staked and prepped.
6. The well for Lot #2 has been drilled.
7. Lot #3 has been cleared and grubbed, and the erosion control barrier has been installed as proposed on the Lot #3 Septic Plan.
8. Construction of the Lot #3 house has begun:
 - a. The foundation has been poured.
 - b. Framework & roofing has begun.
 - c. The septic area has been prepped. Breakout Grading has been established.
 - d. The well has been drilled.
 - e. Roofing appears to be completed as of 05/21/2021.
9. The proposed dwelling for Lot #4 has been staked but has not been cleared yet.
10. A dumpster is located on Lot #3 during the house construction.
11. A porta-potty is located adjacent to the shared driveway.
12. As noted in the pictures & on the attached plan, no erosion or washout was observed from the existing material stockpiles.
13. The future site for Lot #4 has been cleared (tree removal).
14. A woodchip stockpile from the Lot #4 clearing is located adjacent to the Lot #3/Lot #4 property line.
15. The proposed septic system for Lot #4 has been staked.
16. The proposed well for Lot #4 has been staked.
17. ~1.5" of rainfall occurred on 5/29-5-31 2021 the weekend before the inspection (Source: Weather Underground)
18. All side slopes in and around the stormwater management areas have been stabilized with loam and seed.

(A) Future site for Lot #2 dwelling. Existing Well for Lot #2 can be seen on the right side of the picture.



(B) Construction of Lot #3 dwelling. Some mud-tracking observed on shared driveway.



(C) Brush, Stump, & topsoil Stockpile on east side of Lot #2. No erosion or washout was observed. (See attached plan for location)



(D) Boulder Stockpile on Lot #2. (See attached plan for location)



(E) Lot #2 has been cleared & grubbed for proposed house & septic area. No erosion or washout was observed downgradient of Lot #2



(F) Material Stockpile on west side of Lot #2.



(G) Grassed swale routing stormwater to Stormwater Management Area #1.



(H) Standing water observed in Stormwater Management Area #1. ~1.5" of rainfall occurred from 5/29-5/31.



(I) Side slopes of Stormwater Management Area #1 have been stabilized with loam & seed.



(J) Emergency Spillway in Stormwater Management Area #1. Outlet structure is visible in the middle of the picture.



(K) Outlet culvert for Stormwater Management Area #1. Steady flow from was observed. No erosion or scour was observed.



(L) Water observed in Sediment Forebay for Stormwater Management Area #1. As mentioned previously, the outlet control structure is functioning properly.



(M) Typical Check Dam in grassed swale.



(N) Standing water was observed upgradient of rip rap check dam. Water was observed flowing toward Stormwater Management Area #1.



(O) Flared End section. Rip-rap was installed at culvert outfall to prevent erosion & scour.



(P) Lot #4 has been cleared & grubbed.



(Q) Topsoil stockpile on Lot #4



(R) Natural berm at bottom of Lot #4 will help prevent potential sediment washout from construction activities.



(S) Stormwater Management Area #2. Sediment Forebay is visible in the bottom of the picture.



(T) Emergency Spillway for Stormwater Management Area #2. Side slopes in and around the basin have been stabilized with loam & seed.



(U) Outlet Culvert for Stormwater Management Area #2. Flow was observed from Outlet Culvert #2, no erosion or scour was observed.



(V) Woodchip Stockpile between Lot #3 & Lot #4.



(W) Material stockpile adjacent to shared driveway. (See attached plan for location)



(X) Current construction of Lot #3 house. Roofing appears to be completed and siding has begun.



Contractor or Subcontractor Certification and Signature

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Contractor or Subcontractor: _____



Date: 6/3/2021

Printed Name and Affiliation: Ryan Proctor – Dillis & Roy Civil Design Group, Inc.

Certification and Signature by Permittee

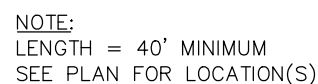
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Permittee or

"Duly Authorized Representative": _____

Date: _____

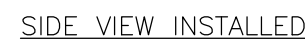
Printed Name and Affiliation: _____



NOT TO SCALE



NOT TO SCALE



NOT TO SCALE




NOT TO SCALE

NOT TO SCALE

1. SLOPES FLATTER THAN 3 TO 1 SHALL BE LOAMED (4" MIN.) AND HYDROSEEDED (WITH MULCH & TACKIFIER). SLOPES SHALL BE MONITORED FOR SIGNS OF WASHOUT. PROVIDE ADDITIONAL MULCHING OR OTHER ACCEPTABLE SOIL PROTECTION AS REQUIRED UNTIL VEGETATION IS ESTABLISHED.
2. SLOPES STEEPER THAN 3 TO 1 SHALL BE RESTORED WITH 4" OF LOAM (MIN.), HYDROSEED (WITH MULCH & TACKIFIER) AND STAKED DOWN EROSION CONTROL BLANKET SIMILAR TO NORTH AMERICAN GREEN SC 150 BN. INSTALL IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
3. UNLESS OTHERWISE INDICATED HEREON ALL DISTURBED AREAS SHALL BE LOAMED (6" MIN.) AND HYDROSEEDED (WITH MULCH & TACKIFIER). AREAS NOT STABILIZED BEFORE THE END OF THE FALL PLANTING SEASON SHALL BE STABILIZED WITH MULCH, THEN HYDROSEEDED IN THE SPRING.
4. ALL SLOPE EROSION PROTECTION AND SIDE SLOPES OF PONDS SHALL BE STABILIZED WITHIN ONE WEEK OF COMPLETION OF ROUGH GRADING. OUTFALLS SHALL BE STABILIZED WITHIN ONE WEEK OF PIPE PLACEMENT.
5. THE TEMPORARY MEASURES WILL NOT BE REMOVED UNTIL PERMANENT STABILIZATION HAS OCCURRED.

PROFESSIONAL ENGINEER



PROFESSIONAL LAND SURVEYOR
I CERTIFY THIS PLAN CONFORMS
TO THE RULES AND REGULATIONS
OF THE REGISTERS OF DEEDS OF THE
COMMONWEALTH OF MASSACHUSETTS

APPROVAL REQUIRED UNDER THE SUBDIVISION CONTROL LAW
DATE APPROVED:

_____)
 _____)
 _____)
 _____)
 SOIL _____)
 _____)
 _____)

BEING A MAJORITY
OF THE STOW
PLANNING BOARD

: ENDORSED:

APPROVED SUBJECT TO CONDITIONS SET FORTH
IN A COVENANT EXECUTED BY _____
DATED _____ AND TO BE RECORDED HERewith

NO BUILDING OR STRUCTURE SHALL BE BUILT OR PLACED ON ANY LOT WITHOUT A PERMIT FROM THE BOARD OF HEALTH

I, _____, CLERK OF THE TOWN OF
HEREBY CERTIFY THAT THE NOTICE OF THE APPROVAL OF THIS PLAN BY THE
PLANNING BOARD HAS BEEN RECEIVED AND RECORDED BY THIS OFFICE AND
NO APPEAL WAS RECEIVED DURING THE TWENTY (20) DAYS NEXT AFTER
RECEIPT AND RECORDING OF SAID NOTICE.

STOW TOWN CLERK

DATE _____

ZONING CLASSIFICATION: RESIDENTIAL (RES)

STOW

HAMMERHEAD LOTS:

FRONTAGE	= 50'	SETBACKS: FRONT	= 50'
LOT AREA	= 180,000 SQ. FT.	SIDE	= 45'
OPEN SPACE (MIN.)	= 10%	REAR	= 40'
FLOOR AREA RATIO	= NR	LOT SHAPE (MIN.)	= 0.25

CONVENTIONAL LOTS

FRONTAGE	= 200'	SETBACKS: FRONT	= 30'
LOT AREA	= 65,340 SQ. FT.	SIDE	= 25'
OPEN SPACE (MIN.)	= 10%	REAR	= 40'
FLOOR AREA RATIO	= NR	LOT SHAPE (MIN.)	= 0.40

OWNER: ALICE A. CUSHING
P.O. BOX 418
STOW, MA 01775

APPLICANT: ALICE A. CUSHING
P.O. BOX 418
STOW, MA 01775

BOOK/PAGE:
BOOK 25093, PAGE 356

MAP/PARCEL:
MAP R-1, PARCEL 27

SPRING HILL ESTATES
DEFINITIVE SUBDIVISION DEVELOPMENT
STOW, MASSACHUSETTS
EROSION CONTROL PLAN

NO.	DATE	DESCRIPTION	BY
1.	11/14/14	REVISED PER TOWN COMMENTS	GSR
2.	2/3/15	REVISED PER TOWN COMMENTS	GSR
3.	5/10/16	REVISED PER DECISION	GSR

PREPARED BY:




CIVIL ENGINEERS LAND SURVEYORS

WETLAND CONSULTANTS

1 MAIN STREET, SUITE 1
LUNENBURG, MA 01462

PHONE: (978) 779-6091
www.dillisandroy.com

DESIGN BY: GSR	DRAWN BY: GSR	CHECKED BY: GSR/SRD	<div style="text-align: center;">  </div> <div style="text-align: right;">OF 10</div>
DATE: 5/11/2021	JOB NUMBER: 4812	DRAWING NO. 4812—GRD	