

FIELD OBSERVATION REPORT

Project: Longmeadow Rd & Ole Musket Rd – Drainage Improvements
Client: Town of Cumberland
GP Field Rep: Sam Foglio (SF) – AM
Kassey Northrop (KN) – PM
Weather: Clear, Sunny
Time onsite: 9:30 AM – 10:30 AM/ 5:00 PM – 5:15 PM
Contractor: A.H. Grover, Inc.
Distribution: File; Town of Cumberland

GP Project No: 3656
Visit Date: April 20, 2023
Report Date: April 21, 2023
Temp. Range: 43-52°F

Work in Progress

- A.H. Grover, Inc. has installed DMH 3 and CB 3 is excavating towards CB 5.

Work Conducted by GP Representative

- Review the construction for drainage improvements on Longmeadow Road.

Discussions & Observations

Overall Longmeadow (04/20/23)

- Prior to arrival in the morning, A.H. Grover had installed approximately 6 feet of 15" SD from the 180 feet installed towards DMH 3 yesterday, 04/19/23.
 - The 6 feet of 15" SD appeared to be installed with material consistent with MaineDOT 703.22 Type C ¾" Crushed Stone to the spring line of the pipe. Material that was consistent with MaineDOT 703.22 Type B Underdrain was used to backfill the 15" SD approximately 1.75 feet from the spring line. Suitable excavated material and material consistent with MaineDOT 703.22 Type B Underdrain was used to backfill the trench area to the subbase layer. Approximately 18" of subbase material consistent with MaineDOT 703.06 was installed, then compacted with efforts of a Remote-Control RTSC3 Wacker Neuson and plate compactor.
 - DMH 3 was set prior to arrival with the 6 feet of 15" SD described above inletting to it. The manhole speared to be set on a ¾" crushed stone base, per detail. A.H. Grover backfilled the manhole with material consistent with MaineDOT 703.22 Type B Underdrain. Prior to backfilling the barrel section completely, A.H. Grover, Inc. installed approximately 8.5 feet of 15" SD towards CB 3 with the same efforts as described above. DMH 3 was then backfilled to the top of the barrel section, then A.H. Grover, Inc. backfilled the top of the manhole (with a 2' x 2' plate over the opening) with material consistent with MaineDOT 703.06 to existing grade, until they install the collar, frame and covers for ease of vehicle traffic. (Photo 1)
- While on site, CB 3 was set on what appeared to be a ¾" crushed stone base, as can be seen in photo 1.
 - The 8.5 feet of 15" SD described above was installed to inlet from CB 3 towards DMH 3 per plan.
 - Crew with A.H. Grover, Inc. prior to backfilling CB 3, placed a 20-foot segment of 15" Perf. SD towards CB 5. (Photo 2) Crew was observed using a laser level and survey rod to check grade prior to placement of the SD. (Photo 3)
 - Upon installing the 20-foot segment towards CB 5, CB 3 was backfilled with material consistent with MaineDOT 703.22 Type B Underdrain and compacted with a plate compactor. (Photo 4)
 - Prior to leaving site in the morning, another 20-foot segment of 15" Perf. SD was installed on the 20-foot segment mentioned above. The two – 20-foot segments of 15" Perf. SD was embedded with material consistent with MaineDOT 703.22 Type C ¾" Crushed Stone, approximately 1.75 feet above the spring line. (Photo 5) It appeared that MaineDOT 703.22 Type B Underdrain was used to backfill the trench to the subbase layer (Photo 6), then 18" of material consistent with MaineDOT 703.06 Type D was installed to existing grade.
- Upon arrival in the afternoon, A.H. Grover, Inc. had installed 140 feet of 15" Perf. SD onto the 40 feet described above towards CB 5, for a total of 180 feet of 15" Perf. SD installed for the day from CB 3.
 - The 15" Perf. SD appeared to be installed with the same efforts as described above for the 2- 20-foot segments.



- Ledge rock did not appear to be present today.
- Crew members with A.H. Grover, Inc. makes efforts to avoid underground utilities.
 - Photo 7 shows Stewart and a crew member hand shoveling around underground utilities prior while excavating from CB 3 towards CB 5.
- A.H. Grover, Inc. makes efforts to communicate with homeowners.
- The table below reflects the approximate quantities as of the end of the day April 20, 2023:

Item/Description	Units	Today's Quantities (04/20)	Quantities to Date
203.21 – Rock Excavation	CY	0	2.13
603.169 – 15" Culvert Pipe Option III	LF	14.5	451.9
604.131 – 4' Diameter Catch Basin	EA	2	6
605.12 – 15" Underdrain Type C	LF	180	180

People on Site

- Ben Grover; A.H. Grover, Inc.
- Matt Grover; A.H. Grover, Inc.
- Stewart; A.H. Grover, Inc.
- 2-3 Person Crew; A.H. Grover, Inc.

Visitors

- None

Concerns or Questions

- **Continue to monitor ledge rock.**

Action Items

- **Communicate with homeowners as needed.**

Prepared By: Kassey Northrop

Reviewed By: Doug Reynolds, PE

If there are any discrepancies, please notify the sender immediately.



Photos



Photo 1 – Circled area is where DMH 3 has been backfilled until frame and cover can be installed.



Photo 2 – 20-foot segment of 15" Perf. SD installed to CB 3.



Photo 3 – Crew member using survey rod and laser level to check grade prior to SD installation.



Photo 4 – CB 3 after it was backfilled with material consistent with MaineDOT 703.22 Type B Underdrain, also shown is a plate compactor compacting around the catch basin.



Photo 5 – MaineDOT 703.22 Type C $\frac{3}{4}$ " Crushed stone placed approximately 1.75 feet above the spring line.



Photo 6 – MaineDOT 703.22 Type B underdrain placed in the trench to the subbase layer.



Photo 7 – Stewart and Crew member hand shoveling around underground utility.