

300 Southborough Drive, Suite 20 South Portland, Maine 04106 207.772.2515

GP Project No: 3656

Temp. Range: 55-56°F

Visit Date: April 11, 2023

Report Date: April 12, 2023

## FIELD OBSERVATION REPORT

Project: Longmeadow Rd & Ole Musket Rd – Drainage Improvements

Client: Town of Cumberland GP Field Rep: Kassey Northrop (KN)

Weather: Sunny

Time onsite: 10:00 - 11:30 AM/ 3:30 - 4:15 PM

Contractor: A.H. Grover, Inc.

Distribution: File; Town of Cumberland

**Work in Progress** 

A.H. Grover, Inc. has installed the storm drain on Ole Musket Road.

**Work Conducted by GP Representative** 

Review the construction for drainage improvements on Ole Musket Road.

### **Discussions & Observations**

#### **Overall Ole Musket (04/11/22)**

- Upon arrival in the morning, CB #21 had been installed and A.H. Grover, Inc. installed 32 additional feet of 12" Perf. SD from the 120 feet installed Monday, April 10 from CB #22 to CB #21.
  - The backfill used to install CB #21 appeared to be MDOT 703.22 Type B Underdrain.
  - A.H. Grover, Inc. used subbase material consistent with MDOT 703.06 Type D to temporarily cover (with a plate over the 2' opening) the catch basin until the installation of the collars, frame and covers.
- While on site, A.H. Grover, Inc. actively worked on excavating the trench area for the proposed 12" SD between CB #21 and CB #20, as well as installing CB #20.
  - The 12" SD was embedded with material consistent with MDOT 703.22 Type C <sup>3</sup>/<sub>4</sub>" Crushed Stone. Crew members of A.H. Grover, Inc then backfilled the 12" SD approximately 1.75 feet from the spring line with material consistent with MDOT 703.22 Type B Underdrain.
  - Suitable excavated material and material consistent with MDOT 703.22 Type B Underdrain was installed as backfill to the subbase layer. Approximately 18" of subbase consistent with MDOT 703.06 was installed on the underdrain layer and compacted with efforts of a Plate Compactor. (Photo 1)
  - 'Clamshells' are used at the joints of pipe segments to secure the connection. (Photo 2)
  - A.H. Grover, Inc. continues to avoid the existing underground utilities.
  - No ledge rock present.
- A.H. Grover, Inc. used material that appeared to be MDOT 703.22 Type B Underdrain to backfill CB #20.
  - A.H. Grover, Inc. used subbase material consistent with MDOT 703.06 Type D to temporarily cover (with a plate over the 2' opening) the catch basin until the installation of the collars, frame and covers.
  - Upon locating the actual locations of underground utilities prior to installing CB #20, it was determined that CB #20 could be installed between the gas line and water main, approximately one foot off the water main, on the curb line. This was done to reduce the 'bird bath' proposed in this area. (Photo 3)
- CB #25 was installed prior to arrival in the afternoon. The backfill used to install CB #25 appeared to be MDOT 703.22 Type B Underdrain.
  - CB #24 was excavated to the bottom of the barrel section to install 12" SD between CB #24 and CB #25. The 12" SD appeared to be embedded with MDOT 703.22 Type C ¾" Crushed Stone to the spring line of the pipe. (Photo 4) MDOT 703.22 Type B appeared to be used as backfill to the subbase layer. Approximately 18" of material consistent with MDOT 703.06 Type D was installed and compacted with the same efforts as stated above.
  - Crew from A.H. Grover, Inc. installed the collars, frame and covers on CB's #24 and #25. (Photos 5&6). Traffic cones were placed around CB's #24 and #25 to direct traffic away until the frame areas can be backfilled.
- 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 11, 2023:

Item/Description	Units	Today's Quantities (04/11/23)	Quantities to Date
203.21 - Rock Excavation	CY	0	83
603.159 – 12" Culvert Pipe III	LF	48.25	87.25
604.131 – 4' Diameter CB	EA	3	9
605.11 – 12" Underdrain Type C	LF	32	349

## **People on Site**

Ben Grover; A.H. Grover, Inc.

Stewart; A.H. Grover, Inc.

> 3-4 Person Crew; A.H. Grover

#### **Visitors**

None

#### **Concerns or Questions**

None at this time

### **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 I – Subbase in trench area compacted with plate compactor.



Photo 2 – 'Clamshells' (circled in red) used at joints of pipe segments.





Photo 3 – CB #20 being backfilled, installed on the proposed curb line.



Photo 4 – Underdrain being installed to the spring line of the 12" SD between CB #24 and CB #25.





Photo 5 – Collar, frame and cover installed on CB #24. Cones directing traffic away are also pictured.



Photo 6 – Collar, frame and cover installed on CB #25. Cones directing traffic away are also pictured.