

## FIELD OBSERVATION REPORT

Project: Longmeadow Rd & Ole Musket Rd – Drainage Improvements  
Client: Town of Cumberland  
GP Field Rep: Kassey Northrop (KN)  
Weather: Sunny, Windy  
Time onsite: 10:15 – 11:15 AM/ 3:15 – 4:00 PM  
Contractor: A.H. Grover, Inc.  
Distribution: File; Town of Cumberland

GP Project No: 3656  
Visit Date: April 3, 2023  
Report Date: August 3, 2023  
Temp. Range: 42-46°F

### Work in Progress

- A.H. Grover, Inc. has started excavation at the existing catch basin in the Cul-de-sac of Ole Musket Road.

### Work Conducted by GP Representative

- Review the construction for drainage improvements on Ole Musket Road.

### Discussions & Observations

#### **Overall Ole Musket (04/03/22)**

- Prior to arrival A.H. Grover, Inc. had saw cut Ole Musket Road, approximately 4 feet wide where stormdrain pipe is proposed. (Photo 1)
  - House #s 12, 14, and 16 have saw cuts located on their driveway aprons. (Photo 2) Upon discussion with A.H. Grover, Inc. for timeline, KN to communicate approximate disruption to driveway use with homeowners prior to excavating.
- Storm drain pipes and structures have been stored along the right-of-way, and in front of areas such as wooded, that do not appear to cause a direct visual burden on the homeowners. (Photo 3)
- Upon commencement of excavation starting at the existing catch basin (Exist. CB 2), ledge rock was encountered at depths of approximately 3 feet.
  - Ledge rock significantly delayed excavation. A second excavator was brought in with a breaker hammer attachment to break up the ledge rock. (Photo 4)
  - The invert into Exist. CB 2 was raised to help reduce the rock excavation efforts.
  - It is anticipated that the rock excavation efforts will lessen as the depths of exaction shallow out of the Cul-de-sac area.
- Approximately 63 feet of 15" SD pipe was embedded with material consistent with MDOT 703.22 Type C - ¾" Crushed Stone from Exist. CB 2 towards proposed CB 28. The 63 feet of 15" SD pipe was then backfilled approximately 1.75 feet from the spring line with material consistent with MDOT 703.22 Type B UD Backfill. (Photo 5)
- Excavated material was used to backfill the 70 feet of trench that was excavated today, up to the subbase layer and was compacted with a Remote-Control RTSC3 Wacker Neuson. (Photo 6)
- Material that appeared to be MDOT 703.06, Type D was installed, approximately 18" in depth, for subbase, as noted in the details for the trench area in a paved area.
- The table below reflects the approximate quantities as of the end of the day April 3, 2023:

Item/Description	Units	Quantity to Date (04/03/23)
203.21 - Rock Excavation	CY	17.8
603.169 – 15" Culvert Pipe III	LF	63
604.161 – Altering Catch Basin	EA	1

### People on Site

- Ben Grover; A.H. Grover, Inc.
- Lee Grover; A.H. Grover, Inc.
- 3-4 Person Crew; A.H. Grover



**Concerns or Questions**

- Monitoring the ledge rock

**Action Items**

- **Communicate with homeowners of house numbers 12, 14, and 16 about driveway disruptions once discussed with A.H. Grover, Inc.**

Prepared By: Kassey Northrop

Reviewed By: Doug Reynolds, PE

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





**Photos**



Photo 1 – Saw cuts on Ole Musket Road



Photo 2 – House #14 with proposed excavation on the driveway apron





Photo 3 – Storm drain pipes stored along wooded area of Ole Musket Road



Photo 4 – Excavator with rock hammer attachment for ledge rock encountered.





Photo 5 – Storm drain backfilled with crushed stone.



Photo 6 – Remote control Wacker Neuson compacting trench area.