

## FIELD OBSERVATION REPORT

Project: Gas Main – Cumberland-Falmouth-Yarmouth  
Client: Towns of Cumberland, Falmouth and Yarmouth  
GP Field Rep: Benjamin Grondin (BG)  
Weather: Sunny  
Temp. Range: 70-85°F  
Time onsite: Multiple visits

GP Project No: 1636.87  
Visit Date: September 25, 2017  
Report Date: September 26, 2017

### Summit Natural Gas

Summit Personnel: David  
Crew #1: ETTi – Foreman (Matt B.) and 4 man crew  
Equipment: CAT mini excavator, 2 dump truck

Crew #3: ETTi – Foreman (Matt M.) and 3 man crew  
Equipment: CAT mini excavator, 1 ton dump truck, directional drill, ditchwitch vacuum

Crew#3: B&S Paving – Foreman (Rick) and 7 man crew  
Equipment: Volvo mini excavator, 3 dump truck, 3 ton vibratory roller

Distribution: File, Bill Shane, Chris Bolduc, Adam Theriault, Bryan Haberman, Bryan Foster, Bert Stefanic

### Work in Progress – Town of Cumberland

- Crew #1 installing 2” gas main on Castlerock Drive.
- Crew #2 installing 2” gas main in woods near Dean’s Way.
- Crew #3 paving trenches on Skillin Road.

### Discussions & Observations

#### Crew #1:

#### Castlerock Drive

- Work Zone Closure: 1 lane closed on Castlerock Drive with flaggers maintaining alternating one way traffic.
- Crew installed approximately 300’ of 2” gas main from near the vegetated island at the Cul-de-sac to near #15 driveway.
- Crew installed 4” gas main on the the esplanade at approximately 40” depth via open trench method.
- Crew sawcut the roadway to cross from the vegetated island to the esplanade. Crew also sawcut and removed pavement within the driveway apron for house #15 for gas main installation.
- All utilities located via manhole inverts, camera, electronic locator, or hand excavated.
- Depth of utilities are to top of pipe unless noted in table below.

Utility	Depth
1” water service #19	>5’
1” water service #15	>5’
1” water service #13	>5’



- Crew hand excavated 1' below the gas main elevation near the location of the water services but where unable to locate the water service. Therefore, >1' of separation was achieved.
- >6' of parallel separation was achieved between the 4" gas main and water main. There does not appear to be any sewer on Castlerock Drive.
- Crew backfilled trench with sand around the gas main, with excavated material above the sand. Backfill was compacted in lifts with a plate wacker.
- BG observed an area of pavement failure on the shoulder of Skillin Road near the gas main. BG indicated to Matt B. the area will require sawcut so the gravel can be compacted and paved.
- Crew cleaned worksite and traffic returned to normal by 4:00PM.

**Crew #2:**

**Deans Way**

- Work Zone Closure: 1 lane closed on Route 88 with flaggers maintaining alternating one way traffic.
- Crew used directional drill machine to drill in the wooded area behind the houses on Dean's Way. No pipe was installed.
- Crew sawcut the roadway shoulder on the southbound lane to excavate down to the gas main.
- Crew did not install pipe crossing the roadway on route 88 therefore no utilities were crossed.
- Crew backfilled the longitudinal shoulder trench on route 88 with excavated material. Backfill was compacted in lifts with a jumping jack.
- The longitudinal trench was left gravel since Crew will be returning to the site tomorrow (9/26) to drill across Route 88.
- Crew cleaned worksite and traffic returned to normal by 5:00PM.

**Crew #3:**

**B&S Paving**

- Work Zone Closure: 1 lane closed on Skillin Road with flaggers maintaining alternating one way traffic.
- Crew removed saw cut pavement at the paved roadway shoulder section near the large culvert and compacted gravel with a plate wacker and 3 ton vibratory roller.
- Edges of pavement were cleaned and tacked prior to placing 12.5mm HMA.
- Ambient air temperature at start of paving was approximately 74°F.
- Crew hand placed 12.5mm HMA in trench area.
- All loads of 12.5mm HMA conformed the the MaineDOT Standard Specification temperature range.
- The paved roadway shoulder trench near the large culvert was placed in 3 lifts with each lift being compacted with both a plate wacker and 3 ton vibratory roller.
- Crew cleaned worksite and traffic returned to normal at approximately 3:30PM.

**Upcoming Work**

- 2" gas main installation on Castlerock Drive to continue on Tuesday (9/26)
- 2" gas main installation near Dean's Way to continue on Tuesday (9/26)



**Restoration Required**

Location	Length of Main or # of Services	Roadway Crossing Trench Patch (1)	Driveway Crossing Trench Patch (1)	Longitudinal Road or Shldr Trench Patch (1)	Sidewalk Trench Patch (1)	Pave Pothole (1)	Restore Gravel Shldr or Driveway (2)	Loam, Seed & Mulch (2)	EC Blanket (2)	Riprap (2)	Moratorium Roadway Restoration (1)	Comments
<b>MAINS</b>												
Castlerock	300'	X	X					X				Driveway#15
Dean's Way	-			X				X				No pipe installed- Rt 88 trench
<b>SERVICES</b>												

- (1) Gorrill Palmer must observe pavement during placement
- (2) Gorrill Palmer will observe restoration after completion

**Visitors on Site**

- None observed.

**Concerns or Questions**

- All gravel trenches within the roadway shall be monitored and repaired or treated for dust control as necessary.
- Failed section of pavement on Skillin Road to be sawcut so gravel can be compacted and area can be paved.

**Follow up Required**

- None at this time.

Prepared By: Benjamin Grondin, EI

Reviewed By: Drew Gagnon, EI

If there are any discrepancies, please notify the sender immediately



Pavement sawcut for roadway crossing trench on Castlerock Drive.



Compacting final lift of 12.5mm HMA with 3 ton vibratory roller



Compacting longitudinal trench on route 88



Failed section of pavement on Skillin Road