



FIELD REPORT #022

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Date:	November 16, 2020	Project #:	2018-046	Page 1 of 3
To:	Michael Cahalane Town of Effingham 68 School St. Effingham, NH 03882	Project:	Elm Street Bridge Preservation	
Email:	effingham@roadrunner.com	Location:	Effingham, NH	
Prepared By:	Jonathan K. MacDougall, PE	Owner:	Town of Effingham	
Reviewed & Approved By:	Christopher R. Fournier, PE	Contractor:	Hansen Construction	
		Weather Conditions:	Partly Sunny, 50°F	

SITE VISIT

Arrived at site: 12:50 PM

Left site at: 1:40 PM

Personnel & Equipment on site:

- HEB Engineers, Inc. (HEB): Jonathan MacDougall, PE.
- Michael Hansen Construction Ltd. (Contractor): Mike Hansen, Carl, 1 Worker.
- Michael Hansen Construction Ltd. Equipment:
 - Maeda Mini Crane.
- Coleman Concrete: Truck #253 and Driver.

Visitors to site:

- None.

Purpose of Site Visit:

- To observe concrete placement at north abutment repair.

Work Performed by Contractor since last site visit:

- Contractor completed removing deteriorated concrete at the north abutment. They removed to the limits previously agreed upon (3 feet 8 inches wide x 8 feet 6 inches tall) and was at minimum 4 inches deep.
- Contractor said the cleaned existing reinforcing and removed loose corrosion.
- Contractor installed three (3) vertical reinforcing bars at locations where there was section loss of the existing bars.
- Contractor installed wood forms at the abutment face.
- Contractor began placing concrete at the abutment.

Work Performed by Contractor during HEB site visit:

- Contractor continued placing concrete at the north abutment (see Photos 1 - 3). The concrete truck place the concrete into concrete bucket. The mini-crane lifted the bucket into place where it was release through the bottom discharge point, to an integrated chute, and into the forms. The concrete was then vibrated.

Items discussed and observed:

- The Contractor used a 3/8-inch NHDOT Class AA concrete for the repair (4,000 psi).
- When the forms were filled to about 1-foot from the top the Contractor vibrated the concrete. During vibration, the forms began to creak. Contractor stopped vibrating and did not vibrate the final placement due to concern of form failure. Contractor used a 2 x 4 to tamp the remaining concrete into place.

Please notify HEB if any information is missing from this field report or has been interpreted differently.

- Contractor said they would remove the forms on Wednesday, November 18, 2020. They said if there is any unconsolidated concrete they would parge the surface with grout.
- Contractor said they will place concrete blankets over the new concrete until the forms are removed.
- Contractor plans to keep the bridge closed until the forms are removed. They will use the crane to remove the sand bags and forms.
- Contractor ordered 1-yard of concrete. Driver estimated there was less than ½-yard left over. Contractor and Engineer both estimated approximately 0.4 yards of concrete would be required for the repair.
- Contractor discussed the crack at the south abutment backwall. Contractor said they will not be able to fix this fall (2020) but could potentially do it during the work on Snow Road next spring/summer (2021).

Work Scheduled:

- Contractor will remove the concrete forms and demobilize on Wednesday, November 18.

Outstanding Construction Issues:

- None.

Next Observation:

- None scheduled.

Photos:

- Taken by Jonathan K. MacDougall on November 16, 2020.



Photo 1: Truck placing concrete in bucket.



Photo 2: Contractor placing concrete in forms from the bucket.



Photo 3: Concrete in forms prior to finishing surface.

Copy: Michael Hansen Construction Ltd.
File