FIELD REPORT #007

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Date:	July 27, 2020	**Project #:**	2018-046	***Page 1 of 4***
To:	Michael Cahalane Town of Effingham 68 School St. Effingham, NH 03882	**Project:** **Location:**	Elm Street Bridge Preservation Effingham, NH	
Email:	effingham@roadrunner.com	**Owner:**	Town of Effingham	
Prepared By:	Jonathan K. MacDougall, PE	**Contractor:**	Hansen Construction	
Reviewed & Approved By:	Christopher R. Fournier, PE	**Weather Conditions:**	Mostly Sunny 90°F	

SITE VISIT

Arrived at site: 1:30 PM **Left site at:** 2:30 PM

Personnel & Equipment on site:
- HEB Engineers, Inc. (HEB): Jonathan MacDougall, Sam Brandt
- Michael Hansen Construction Ltd. (Contractor): Carl, Dan
- Michael Hansen Construction Ltd. Equipment:
    - Volvo Excavator
    - Diesel Air Compressor
    - Dump Truck

Visitors to site:
- None.

Purpose of Site Visit:
- To observe construction progress.

Work Performed by Contractor since last site visit:
- Contractor completed chipping concrete along the east curb line (see Photo 1).
- Contractor continued chipping concrete at the back wall and expansion joint (see Photo 2).

Work Performed by Contractor during HEB site visit:
- Contractor was cleaning up the site for the day.

Items discussed and observed:
- Contractor appears to have completed the preparation for partial depth repairs with the exception of the cleaning the exposed reinforcing steel. Engineer discussed with the Contractor that the reinforcing steel must be cleaned prior to placing concrete. Engineer noted in the past Contractors have typically sandblasted the steel to remove the rust. Contractor said they may try to use a grinder (see section NHDOT Specifications section 544 for surface requirements). Contractor also mentioned they may cut some of the reinforcing to avoid having to clean. Engineer noted this will be acceptable, but must have sufficient splice lengths to achieve strength. The bars previously damaged by the excavator may require cutting out to provide enough surface cover.
- Contractor removed most of the concrete from the backwall below the expansion joint and appears to have removed all the loose and deteriorated concrete. Contractor saw cut the top of the curb and began to chip out the concrete in those area (see Photo 3). Contractor is planning to sawcut the side face of the curb to complete chipping out the joint. Contractor and Engineer reviewed the connection of the new expansion joint.

- No containment has been installed to prevent concrete debris from the expansion joint removal from falling into the river. Engineer discussed with the Contractor the need for containment before they proceed with full depth deck demolition. Concrete debris is present along the bank of the stream and in the river (see Photo 4). Containment will also be required for cleaning of the structural steel below the deck.
- Contractor said they will likely place the concrete deck prior to installing the expansion joint. The Contractor needs the deck to cure before they can get a snooper truck on the bridge and clean the steel below.
- Engineer noted the loose block of concrete at the north abutment is considerably larger than during initial observations in 2018 (see Photo 5). More concrete may require removal than originally assumed and less epoxy crack filler may be required.

Work Scheduled:
- Contractor will remove all the demolition debris on the deck tomorrow (July 28, 2020) and continue to remove the expansion joint.
- Contractor may place deck concrete at the end of the week, but does not have a schedule yet.

Outstanding Construction Issues:
- Install containment to prevent demolition debris from falling in the river.

Next Observation:
- Thursday, July 30, 2020.

Photos:
- Taken by JKM July 27, 2020.

Photo 1: Concrete removed along the east curb.

Photo 2: Backwall chipped out to remove the expansion joint.

Photo 3: Sawcut and demolition at the curb.

Photo 4: Concrete debris along the riverbank and in the river.

Photo 5: Loose concrete at the north abutment.

Copy: Michael Hansen Construction Ltd.
File

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