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Date:	October 26, 2022	Project #:	2021-083	Page 1 of 7
To:	Town of Effingham 68 School Street Effingham, NH 03882	Project:	Bailey Road Culvert Replacement	
Email:	townofeffingham@effinghamnh.net	Location:	Effingham, NH	
Prepared By:	Christopher Fournier, PE	Owner:	Town of Effingham	
		Contractor:	Jake Dawson's Excavation & Utility Services, LLC	
		Weather Conditions:	60° Cloudy / Drizzle	

SITE VISIT

Arrived at site: 6:50 AM

Left site at: 11:30 AM

Personnel & Equipment on site:

- » HEB Engineers, Inc. (HEB): Chris Fournier, PE
- » Jake Dawson's Excavation & Utility Services, LLC (Dawson's): Jake (Owner), Andy (Foreman), 1 Operator, and 2 Laborers
- » Dawson's Equipment:
 - 1 Case Loader, 621F (idle)
 - 1 Case Excavator, CX145DSR (idle)
 - 1 Case Excavator, CX245DSR
- » Keeley Crane Service (Keeley): 1 Foreman, 1 Operator, 2 Laborers
- » Keeley Equipment:
 - Grove 5250XL, 300 Ton all terrain crane
- » Concrete Systems, Inc. (CSI): 3 Laborers

Visitors to site:

- » None.

Purpose of Site Visit:

- » To observe the first phase of precast concrete box culvert installation.

Work Performed by Contractor since last site visit:

- » Precast components wingwall 1 (WW), WW2, and one middlebox culvert segment were already on site.

Work Performed by Contractor during HEB site visit:

- » The Contractor continues to dewater the excavation to the sedimentation basin with a 2-inch and 6-inch pump.

Items discussed/observed:

- » The excavation appears to be dry and ready for the box culvert installation (see Photo 1).
- » The remaining traffic lane has slumped and created a dip where the underlying material has moved but stabilized against the shoring (see Photo 2).
- » Keeley unloaded counterweights from their flatbed and prepared the crane for use.
- » The Contractor stated power will not be shut off for this installation since the line is protected and the crane will be approximately 13 feet away.

- » The Contractor stated they were prepared to drill and dowel the first box culvert segment to the cutoff wall as detailed in the approved submittal.
- » The Engineer observed the water elevation nearly to the top of the slab at the footbridge (see Photo 3).
- » The Contractor notified the Engineer that the surveyor's report notes a difference in the prepared elevation of approximately 1.5 inches. The Engineer stated this was within an acceptable tolerance, but requested the Surveyor verification of the horizontal placement. The Contractor stated they would follow up with their Surveyor.
- » The first segment of the precast box culvert arrived on site at 8:50 AM. The Contractor and their Subcontractors worked to stand the piece up for installation. The piece was set in place at 10:30 AM. Traffic was closed for a period of 15 minutes to accommodate the trucks and equipment (see Photos 4 – 6).
- » The Contractor notified the Engineer. They will request a four-hour road closure for the next phase of precast concrete installation.
- » The Engineer observed flexible gaskets pre-installed on the “female” end of the box culvert segments (see Photo 7).
- » The second box culvert piece was placed at 10:45 AM and the third piece at 11:15 AM. The Contractor made the mechanical connections (see Photos 8 and 9).
- » The Engineer reminded the Contractor of the need for a sedimentation bag within the sedimentation basin. The Contractor responded they would act to correct it.

Work Scheduled:

- » The Contractor intends to modify the sheet pile and walers to accommodate future wingwall installation and backfill after.

Outstanding Construction Issues:

- » Install sedimentation basin according to permitted detail (FR#008, 10/04/22).
- » Provide verification of horizontal placement of the box culvert.

Next Observation:

- » To be determined.

Photos:

- » Taken by Chris Fournier on October 26, 2022.



Photo 1: Excavation ready for box culvert installation.



Photo 2: Trench box wall supporting existing roadway.



Photo 3: Water elevation at upstream dam.



Photo 4: First box culvert segment.



Photo 5: First box culvert segment being craned in.

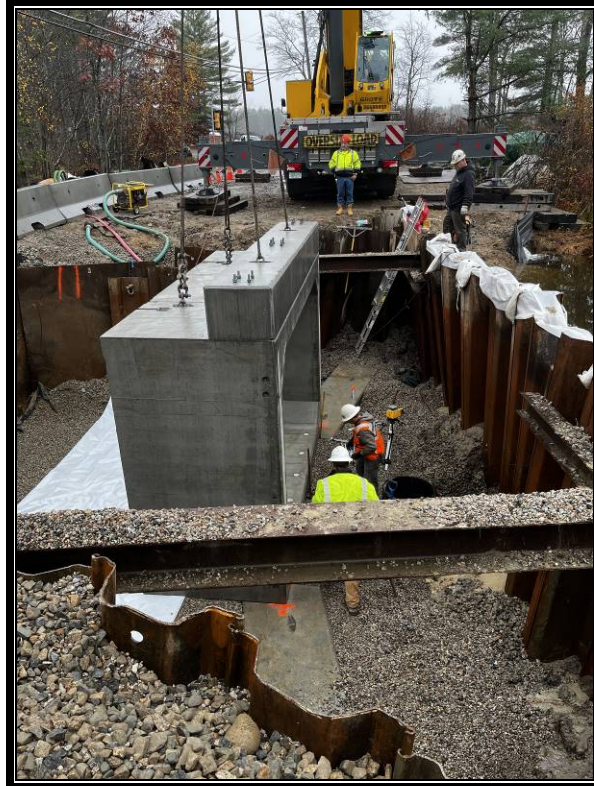


Photo 6: First box culvert segment in place.



Photo 7: Second box culvert segment
being craned in.



Photo 8: Second box culvert segment in place.



Photo 9: First phase of box culvert installation complete.

Copy: Jake Dawson's Excavation & Utility Services, LLC
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