

Monthly Construction Update #3 Phase 2

To:	City of Merritt	Report Date:	June 07, 2024
Project:	Middlesboro Bridge Replacement – Phase 2B	Site Manager:	Ryan Buick – Site Superintendent
Location:	Middlesboro Bridge, South Approach	Workforce:	10-15

Project Overview

Phase 2B of the Middlesboro Bridge Replacement includes the driving of piles on the north and south approaches, construction of the substructure and superstructure of the bridge. Gravel placement, roadway paving, and embankment filling in order to strengthen and solidify the surrounding area. This strategic plan includes installing robust riprap placement to safeguard the physical integrity against future environmental incidents. Subsequently the central pier and old abutments from a bridge that was in place prior to the construction of the original Middlesboro Bridge will be demolished and removed. Furthermore, an in-depth drainage system will be installed, ensuring optimal water management. A multi-use pathway will be constructed for pedestrians crossing the bridge. This addition will serve to enhance the civic infrastructure, providing a safe and accessible route.

1. Environmental Update

- 1.1 This Month – No in-stream or environmental related work has taken place.
- 1.2 Next Month – No in-stream or environmental related work planned.

2. Heritage Update

- 2.1 This Month – No Cultural Monitors onsite.
- 2.2 Next Month – No Cultural Monitors anticipated to be onsite for current activities.

3. Construction Update

- 3.1 This Month – Pile driving has been completed on both the north and south ends of the bridge. The piles have been excavated and cut to their final elevations, with rebar cages installed. Concrete infill has been poured for all eight piles. Mud slabs have been formed and concrete poured. Prefabrication of abutment formwork panels has been completed, and installation of these panels on the south abutment is currently underway. Harris rebar commenced onsite activities this week, focusing on the installation of the reinforcing steel for the south abutment. Additionally, preload materials has been removed from the north approach and placed into the northwest embankment, with the remaining material being stockpiled on site for future use.
- 3.2 Next Month – Complete the installation of reinforcing steel for the south abutment. Finalize the south abutment formwork, form up bearing seats, install grout cans and proceed with pouring the south abutment concrete. Once the concrete has set, the form panels are to be stripped, cleaned, reoiled and transported to the north side. Back fill we be placed around the south abutment. Following this construction of the north abutment will get underway with reinforcing steel installation to follow after. Demolition of the old south abutment will take place and crane a ramp will be constructed in preparation for the girder installation.

4. Schedule Update

This Month – Work has been progressing ahead of schedule. Piling completed ahead of initial schedule and will be demobilized from site by end of week June 7, 2024. Pile cages delivered early and installed.

Upcoming Milestones – South abutment seat concrete pour scheduled for June 11, 2024. South abutment wing walls and back wall concrete pour scheduled for June 20, 2024.

5. Project Photos



Figure 1 – Excavating to pile cut off



Figure 2 – South Abutment formwork



Figure 3 – North Abutment mud slab



Figure 4 – South Abutment reinforcing steel

- Distribution: Site Manager
 Design Team
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