

CONSTRUCTION

Project Status Report

Date: October 21th, 2016

Project Information: ID 8221-01/8110-02-70/71/72/75/73
St Croix Crossing Bridge and Wisconsin Approach

Contract Dates Superstructure: (CPM Schedule submitted September 12th, 2016)

Open to Traffic – Fall 2017
Substantial Complete Date – September 1st, 2017
Construction Completion Date – October 31st, 2017

Milestones:

Mooring Cell Removals (except northern most) – September 5th, 2017
Falsework and surface finishes –October 31st, 2017
Dock wall & northern most mooring cell (camera) removal – January 25th, 2018

Construction Dates WI Approach:

8110-02-71 – Grading, aggregate base, B-55-225 - COMPLETE
8110-02-72 – Grading from the STH 35 IC to the Eastern Limits - COMPLETE
8110-02-75 – Final paving from the Main River Bridge to the Eastern Limits
Completion Date-August 22, 2017
(Includes requirement for contractor to complete paving next to bridge in 2017.)
8110-02-73 – Wisconsin Loop Trail Construction
Likely construction start date-Spring 2018, Likely subst. Completion Date-Fall 2018

Work completed to date:

1. Pier Work – COMPLETE
2. Abutment Work
 - a. 82045:
 - i. West: Backfill Complete
 - ii. East: footing and body complete (idle until December 2016)
 - b. 82047: footing and body complete, upper back wall complete, backfilling in progress.
 - c. 82048: COMPLETE
3. Crossbeams – COMPLETE
4. Pier Table – River – COMPLETE
5. Towers – COMPLETE
6. CIP Falsework
 - a. WB gore area – COMPLETE
 - b. EB gore area – COMPLETE
 - c. EB gore area (spans 5 thru 7):
 - i. Slab pour: COMPLETE
 - ii. Diaphragms:
 1. Pier 4E, 5E, 6E & 7E: complete
 2. Web Walls: 11 of 11: complete

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3. All Top Slab pours: complete

4. Lowering falsework from around Pier 6

d. 82048 Spans 3&4:

i. Falsework complete

ii. 2 of 2 bottom slab pours complete

iii. Span 3 wall pours, and Top deck complete

iv. Pier 3 Diaphragm complete

v. Span 4 Wall Pours and Top deck complete. Stressing and grouting Top slab Transverse Tendons in progress.

e. 82047 Span 1:

i. Bottom Slab pour: COMPLETE

ii. Diaphragms:

1. Pier: COMPLETE

2. Intermediate: COMPLETE

iii. Walls: COMPLETE

iv. Top Slab Deck: COMPLETE

7. Precast yards

a. Onsite:

i. Segments cast: 342 of 342 DONE!!

ii. Completed cantilevers: 1E, 1W, 2E, 2W, 3E, 3W, 47-2, 47-3, 47-4 (305 segments)

iii. Back-spans complete: AE, AW, 47-1, 4E, 4W, 5W (37 segments)

iv. 4 of 4 precast diaphragms complete

b. Grey Cloud:

i. Segments cast: 650 of 650 DONE!!

ii. Completed cantilevers: 8, 9,10,11,12 (580 segments)

iii. Back-spans complete: 7, 13 (70 segments)

iv.

8. Precast Approach : Unit 1E & 1W

a. Pier tables – COMPLETE

b. Segments

i. Erected: 341 of 341 DONE!! (25 more since last status report)

ii. Completed cantilevers: 1E, 1W, 2E, 2W, 3E, 3W, 4W 47-2, 47-3, 47-4 (267 segments)

iii. Back-spans complete: AE, AW, Pier 4E (74 segments)

9. River Segments

a. Erected: 650 of 650 DONE!! (52 more since last status report)

b. Completed cantilevers: 8E, 8W, 9E, 9W, 10E, 10W, 11E, 11W, 12E, 12W, 13E, 13W

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- c. Pier Overlooks
 - i. Pier 8 Complete
 - ii. Pier 10 Complete
- d. Pier Architectural Skirts
 - i. Pier 8 upstation/downstation on both south and north side complete

Work scheduled for next few months (November thru end of February):

1. Abutment Work
 - a. 82045 East – EB & WB: Construct backwalls
2. Trestle – COMPLETE
3. River Work
 - a. Hand forming barrier on all spans on the river. (Utilizing blankets for cold weather concreting.)
 - b. Pier 12 overlook falsework installation, forming, rebar installation, concrete pouring, Post-tensioning.
 - c. Pier Architectural Skirts
 - i. Pier 9, 10, 11 forming/rebar/concrete pouring in progress.
 - d. Drainage pipe installation, in progress across the river spans.
 - e. Ongoing installation of lighting and conduits for utilities inside the structure.
4. Cast-In-Place:
 - a. 82045 EB Spans 5-7: Lowering Falsework
 - b. 82048 Spans 3 & 4:
 - i. Top slab Transverse Tendon Stressing/grouting
 - ii. Longitudinal Post-Tensioning
5. Approach Work
 - a. (Minnesota side) Moving, hauling in fill dirt, grading. Placing roadway base course and shoulder aggregates on Mainline, and on ramps.
 - b. Ongoing installation of lighting and conduits for utilities inside the structure

RFI Status:

420 RFIs have been submitted to date.

Percent Contract Complete: 90.3% (Oct. 03, 2016 invoice)

Budget Status:

Original Contract Value	\$332,455,810.90
Funds Encumbered to Date	\$336,540,821.27
WisDOT portion of Superstructure	\$152,645,295.42

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Value of Work Certified to Date	\$304,058,530.14
WisDOT portion	\$128,631,376.13

Schedule Status:

1. The Contractor submitted a schedule (LA-32BSU-2) on September 12th.
2. The substantial completion date is shown as September 1st, 2017. (Negative 275 days float)
3. The construction completion date is shown as October 31st, 2017.

PICTURES!! (Captions below)



Catwalk between segments on the river spans.

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All rebar and post-tensioning ducts installed before concrete placement. For the Overlook on Pier 10.

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Overlook after concrete is poured.

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Interesting picture of the concrete barrier for the pedestrian trail on the river spans. Conduits Proximity to each other....?

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Bridge 82045 Unit 2E Pier 6 Falsework lowering in progress.



Bridge 82048 Span 4 Last FINAL!! Top Deck pour on the bridge. WOOHOO!!

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Last Segment for the whole bridge to be erected.



Side Banners of the last Segment

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Segment getting hoisted up into its final resting place on the bridge.



The segment right before stressing the Post-Tensioning bars.

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On the river spans, to put together cut rail bars due to the placement of lifter holes, epoxy mechanical couplers were used.

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One of the Cable stay dead end anchors, filled with rubberized resin to protect the unsheathed length of strand inside the anchor.

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Forms for the concrete barrier sitting on the deck, on span 8.



Pier 13 Diaphragm Rebar.