

# **CONSTRUCTION**

## **Project Status Report**

Date: September 16<sup>th</sup>, 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 12<sup>th</sup>, 2016)**

*Open to Traffic – Fall 2017*

*Substantial Complete Date – September 1<sup>st</sup>, 2017*

*Construction Completion Date – October 31<sup>st</sup>, 2017*

#### *Milestones:*

*Mooring Cell Removals (except northern most) – September 5<sup>th</sup>, 2017*

*Falsework and surface finishes –October 31<sup>st</sup>, 2017*

*Dock wall & northern most mooring cell (camera) removal – January 25<sup>th</sup>, 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 substantial 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 forming 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



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**Pier 7E Upstation Diaphragm looking downstation**



**Pier 5W Diaphragm Downstation Face**



**Pier Stay cable anchor concrete hood formwork**



**Pier Stay cable anchor concrete hood formwork looking parallel with cables**



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- 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
    - 3. All Top Slab pours: complete
- d. 82048 Spans 3&4:
  - i. Falsework complete
  - ii. 1 of 2 bottom slab pours complete
  - iii. Span 3 wall pours complete
  - iv. 2<sup>nd</sup> lift of Pier 3 Diaphragm complete
  - v. Top Decking, with two layers of rebar... in progress

**82048 – Phase 2 (Last Month)**



**82048 – Phase 2 (Yesterday)**



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82048 – Pier 3 Looking upstation



82048 – Pier 4E Looking Downstation



- 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: 316 of 341 (16 more since last status report)
  - ii. Completed cantilevers: 1E, 1W, 2E, 2W, 3E, 3W, 4W 47-2, 47-3 (252 segments)

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- iii. *Back-spans complete: AE, AW, Pier 4E (74 segments)*
- iv. *Cantilevers in-progress:*

1. 82047 Pier 4, 10-U5,10-D5

#### 9. River Segments

- a. *Erected: 598 of 650 (68 more since last status report)*
- b. *Completed cantilevers: 8E, 8W, 9E, 9W, 13E, 13W (293 segments)*
- c. *Cantilevers in-progress:*
  - i. *Pier 10: W10-1D:23, W10-1U:23, E10-1D:23, E10-1U:23*
  - ii. *Pier 11: W11-1D:26, W11-1U:26, E11-1D:26, E11-1U:26*
  - iii. *Pier 12: E12-1D:25, E12-1U:25, W12-1D:25, W12-1U:25*

#### **Work scheduled for next few months (October thru end of December):**

- 1. *Abutment Work*
  - a. *82045 East – EB & WB: Construct backwalls*
- 2. *Trestle – COMPLETE*
- 3. *Segments – River (650 of 650 total)*
  - a. *There are 29 segments per cantilever*
    - i. *Complete Pier 10 Cantilever*
    - ii. *Complete Pier 11 Cantilever*
    - iii. *Complete Pier 12 Cantilever*
- 4. *Cast-In-Place:*
  - a. *82045 EB Spans 5-7:*
    - i. *Post-tensioning anchor Pourbacks*
  - b. *82045 Main Span*
    - i. *Span 1E- slip form barrier – Deck Planning – Chip seal*
    - ii. *Span 1W Pier 5W*
      - 1. *Erect 5 back span segments*
      - 2. *Continuity tendons install, stress, grout*
      - 3. *Slip form barrier*
  - c. *82048 Spans 3 & 4:*
    - i. *Top slab decking (Span 4)*
    - ii. *Top Slab Span 3 poured and transverse tendons stressed and grouted*
    - iii. *Span 4 Web walls Complete*
    - iv. *2 of 2 bottom slab pours complete*
- 5. *Precast Approach : Unit 1E & 1W*
  - a. *Segments erected (342 of 342)*
    - i. *Complete*
      - 1. *Pier 5W: 5 segments*

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### 2. 82047 Pier 4: 10 segments

**RFI Status:**

416 RFIs have been submitted to date.

**Percent Contract Complete:** 87.4% (Awaiting next invoice)

**Budget Status:**

Original Contract Value	\$332,455,810.90
Funds Encumbered to Date	\$336,540,821.27
WisDOT portion of Superstructure	\$149,828,056.98
Value of Work Certified to Date	\$294,363,971.05
WisDOT portion	\$125,814,136.59

**Schedule Status:**

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



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