



PROJECT DESCRIPTION

- 1.0 Iowa DOT is developing plans for the reconstruction of portions of I-80 WB and I-29 NB in the East System Interchange of the Council Bluffs Interstate System Improvement Program, C-2 Contract (374). This project is planned for letting in September 2015.
- 2.0 This project is primarily constructed in areas not impacting traffic. However, the project scope will require the construction of temporary or detour paving to accommodate significant traffic switches at the end of the project. These traffic switches will shift traffic onto the newly constructed bridges and roadway.
- 3.0 The project includes three (3) large steel girder bridges over the Iowa Interstate Railroad yard, two (2) concrete girder bridges over South Expressway, including grading and paving from just west of South Expressway to the Madison Avenue WB on-ramp. The bridges over the Iowa Interstate Railroad yard will include limitations in operations during construction of the foundations and substructures in accordance with partnering agreements between Iowa DOT and Iowa Interstate Railroad.
- 3.1 Work will be performed in coordination with the railroad yard operations in 4-6 hour work windows. Flagging will be required while working within the yard. The South Expressway bridges are limited in construction of the east abutments, east approach ground improvements, and east approach embankments until spring 2017 when the railroad corridor realignment is complete.
- 4.0 This project presents significant construction complexities and challenges. In order to develop a more efficient and constructible design, the Iowa DOT is requesting input from the industry regarding bridge constructability and coordination issues with the railroad that would result in a successful project for both Iowa DOT and the contractors. The Iowa DOT is requesting to hold one-on-one meetings with AGC members to review the staging, constructability, and risks associated with the project to gain feedback on methods to make the construction more cost- and schedule-efficient.
- 5.0 **Input is requested on the following items:**
 - » *Risks and cost impacts associated with limited construction windows in the Iowa Interstate Railroad yard area*
 - » The railroad will allow 4-6 hour work windows within the railroad yard for the highway contractor
 - » The railroad yard will operate 24 hours per day, 7 days per week
 - » Construction traffic in and out of the yard will need to be minimized and coordinated with the intermodal yard operations
 - » *Foundation construction in the Schildberg Pond*
 - » There is a bridge foundation for the I-80 WB viaduct located within this pond
 - » An earthen causeway has been approved for use by the USACE and would be built in accordance with Standard Plan EW-401.



Project Description – March 10, 2015

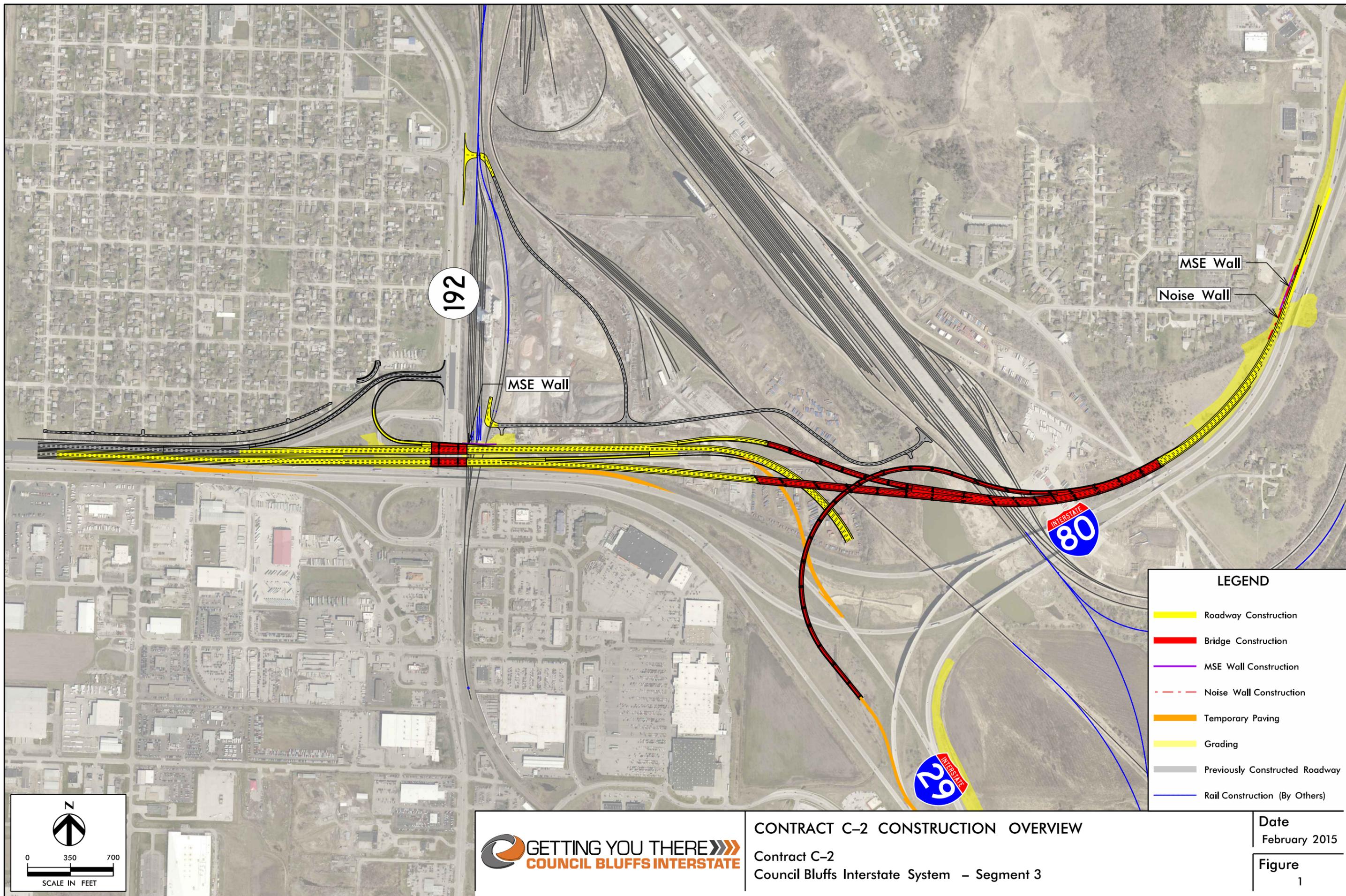
» *Schedule*

- » This project will have a September 2015 letting with anticipation to start work on bridges while embankment settlement from a previous project is ongoing
- » The total project duration for this project is anticipated to be approximately 30 months
- » Completion of this project drives the traffic switches necessary to accommodate the next phase of construction of the east system interchange
- » The next phase of construction and subsequent contract is for the remaining structures in the east system interchange
 - » Complexity of the future construction project should be considered in the constructability review.

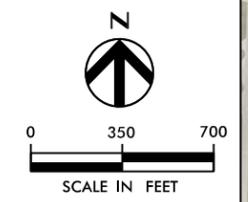
6.0 This Project consists of the following major items of work:

- » Excavation: 90,000 CY
- » Embankment: 410,000 CY
- » Concrete Paving: 110,000 SY
- » Temporary Paving: 34,000 SY
- » MSE Walls: 11,000 SF
- » Noise Walls: 12,000 SF
- » Wick Drains: 30,000 LF
- » Rigid Inclusions (assumed): 64,000 LF
- » Steel Girder Bridges
 - » Ramp G: 3,678 LF, 19 spans
 - » I-80 WB Viaduct: 3,358 LF, 16 spans
 - » Ramp A: 1,193 LF, 6 spans
- » Concrete Girder Bridges
 - » I-29 NB over S. Expressway: 289 LF, 3 spans
 - » I-80 WB over S. Expressway: 289 LF, 3 spans

7.0 Intentionally left blank



LEGEND	
	Roadway Construction
	Bridge Construction
	MSE Wall Construction
	Noise Wall Construction
	Temporary Paving
	Grading
	Previously Constructed Roadway
	Rail Construction (By Others)



CONTRACT C-2 CONSTRUCTION OVERVIEW

Contract C-2
Council Bluffs Interstate System – Segment 3

Date
February 2015

Figure
1