

Welcome

Public Input Meeting

SE Jamestown Interchange
Westbound Bridge Reconstruction
Project Number IM-2-094(143)260

Tuesday, January 26, 2016

Open House: 5:00–7:00 p.m.

Presented By:
Randall Sandvig

Bridge Division
NDDOT

Interstate 94 SE Jamestown Interchange

Bridge Reconstruction
&
Incidentals

Project Location



- The SE Jamestown Interchange (Exit 260) is located at mile point 260.125 along Interstate 94.
- The bridge carries Westbound I-94 traffic over the Jamestown East Business Loop and Burlington Northern Railroad.

Project Description



- This project consists of removal and replacement of the existing westbound structure and other incidental items.
- Built in 1958, the existing bridge has been classified as “Structurally Deficient.”
- Presently the bridge has no load restrictions, however with continued deterioration, load restrictions could be necessary.

Need for Proposed Project



- A deceleration lane was added to the bridge in 1976, which widened the bridge from 30' to its current width of 42'.
 - Piers are now cracking in areas where they were widened.

Need for Proposed Project



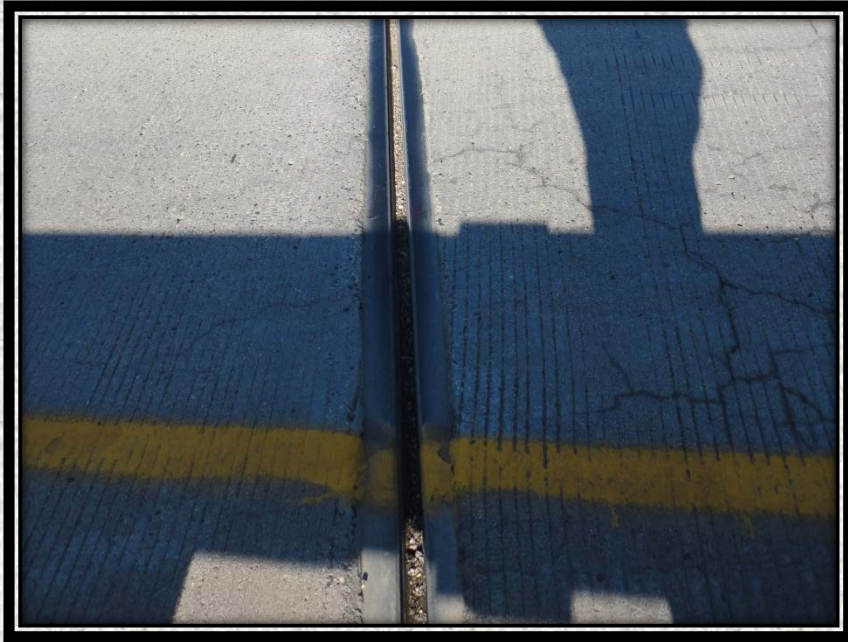
- The open expansion joint design of the bridge makes the concrete bridge girders susceptible to deterioration and spalling.
 - The beam ends were previously repaired as part of a 1984 bridge deck overlay project.
 - The beams have deteriorated once again and need repairs.

Need for Proposed Project

- **Due to drainage at the joints, ice often builds up over the piers during the winter.**
 - Pier caps are cracking and spalling near the bearing plates.
 - Moderate rusting of rocker bearings and bearing plates has occurred.



Need for Proposed Project



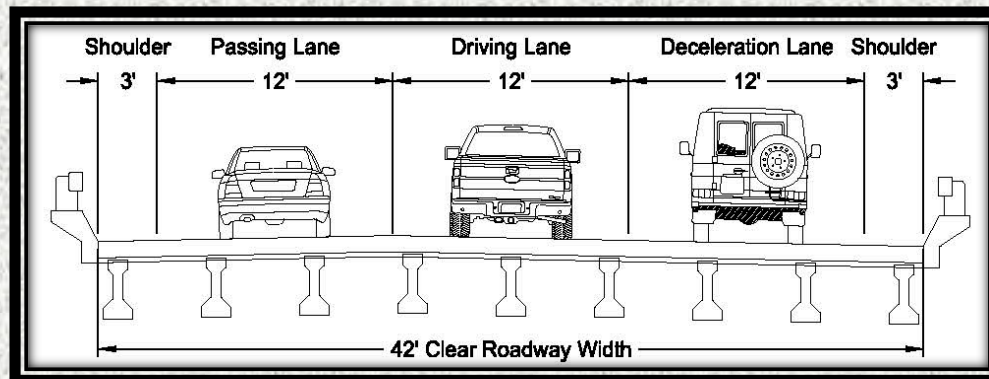
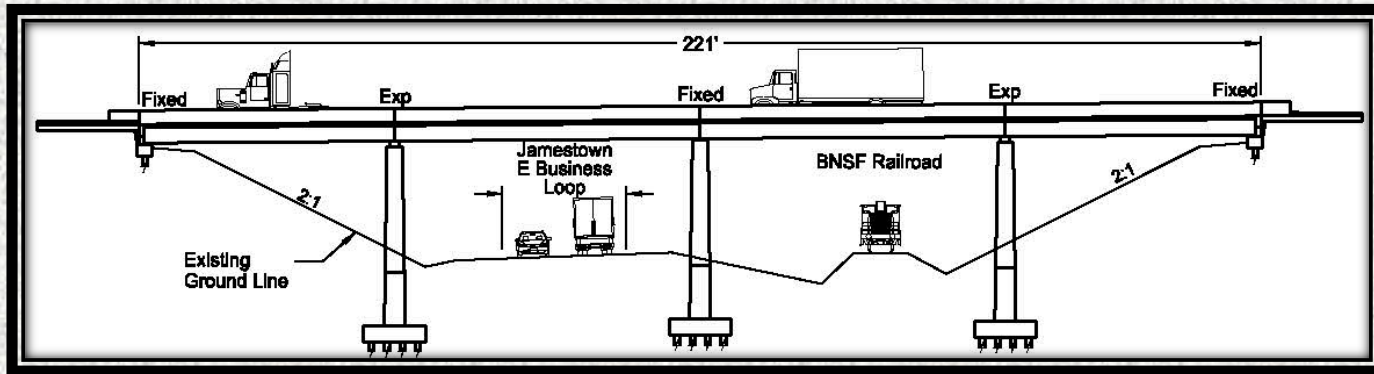
- The deck has minor cracking and spalling.

Interstate 94 SE Jamestown Interchange

Proposed Improvements

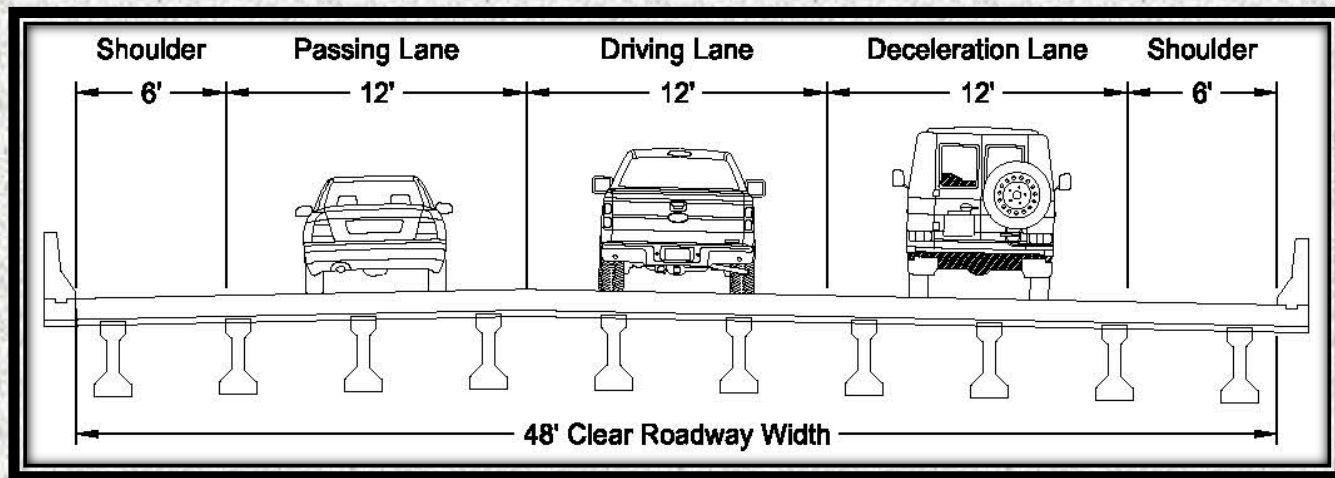
Existing Bridge

- Spans – 4
- Length – 221'
- Expansion/Open Joints
- Bridge Width – 42'
- 3' Shoulders
- 2:1 Abutment Slopes



Proposed Bridge

- Spans – 4
- Longer Bridge
- Integral Abutments, with no expansion joints needed.
- Bridge Width – 48'
- 6' Shoulders
- Flatter Abutment Slopes



Proposed Median Crossovers

- Crossovers will be constructed to maintain westbound I-94 traffic in a two-way, two lane configuration with eastbound I-94 traffic through the construction zone.
- Proposed locations of crossovers are 5,000' west and 5,800' east of the SE Jamestown Interchange Westbound Bridge.



Proposed Reconstruction

- **Once the crossovers are constructed, westbound traffic will be redirected onto the I-94 eastbound roadway. The westbound bridge will then be closed to traffic.**
- **The existing bridge will be demolished.**
- **A new 4-span bridge with a clear roadway width of 48' will be constructed.**
- **Guardrail at the east end of the bridge will be updated.**

Traffic Control Challenges

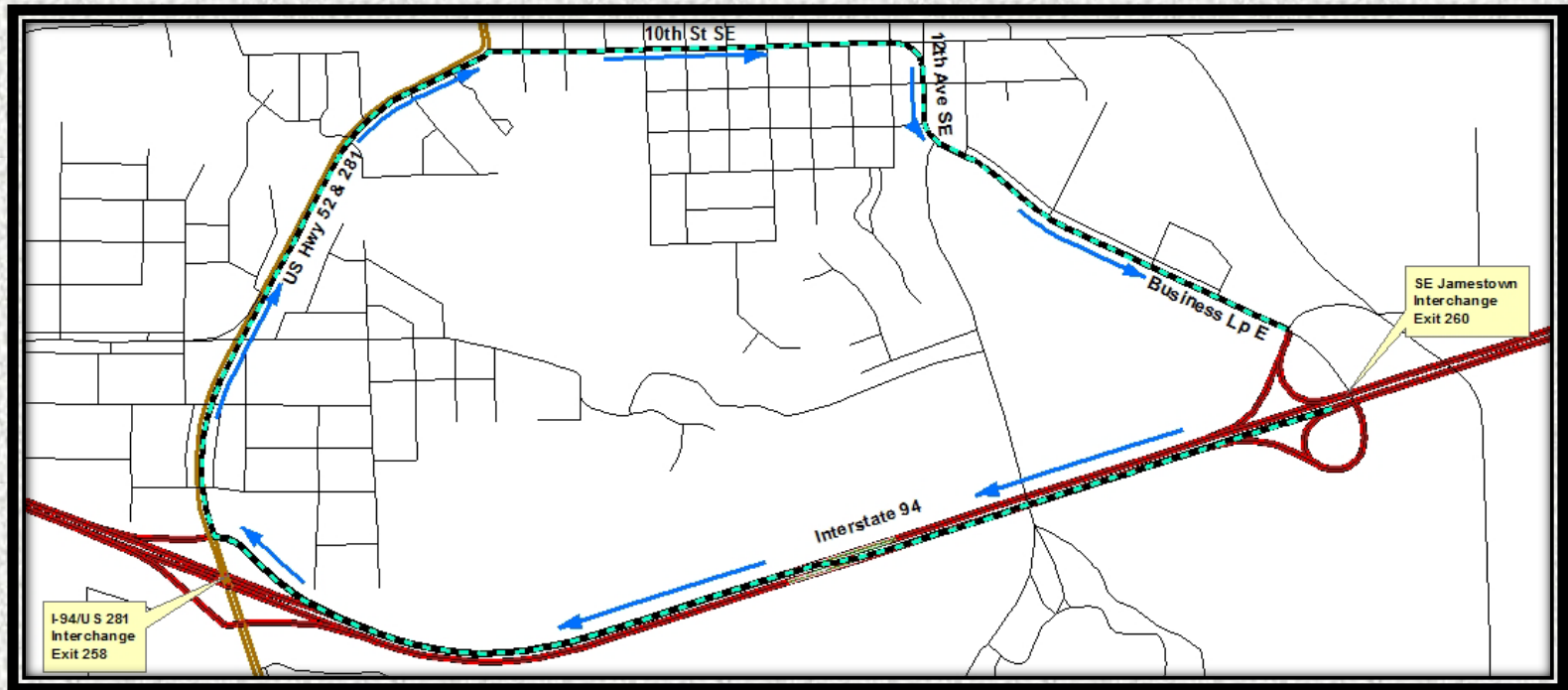
- Due to the westbound bridge closure, maintaining access to the westbound Exit 260 offramp would be costly during construction.
- A temporary exit ramp connected to the westbound Exit 260 offramp could be constructed to maintain traffic.
- Estimated additional cost to maintain the exit as described is \$431,500.



Traffic Control Challenges

- **The alternative to providing the temporary exit ramp is to close the exit entirely and provide a detour route for traffic.**
- **The proposed traffic control consists of detours utilizing I-94, US 52/US 281, 10th St SE, 12th Ave SE, and Business Loop E.**

Detour Plan

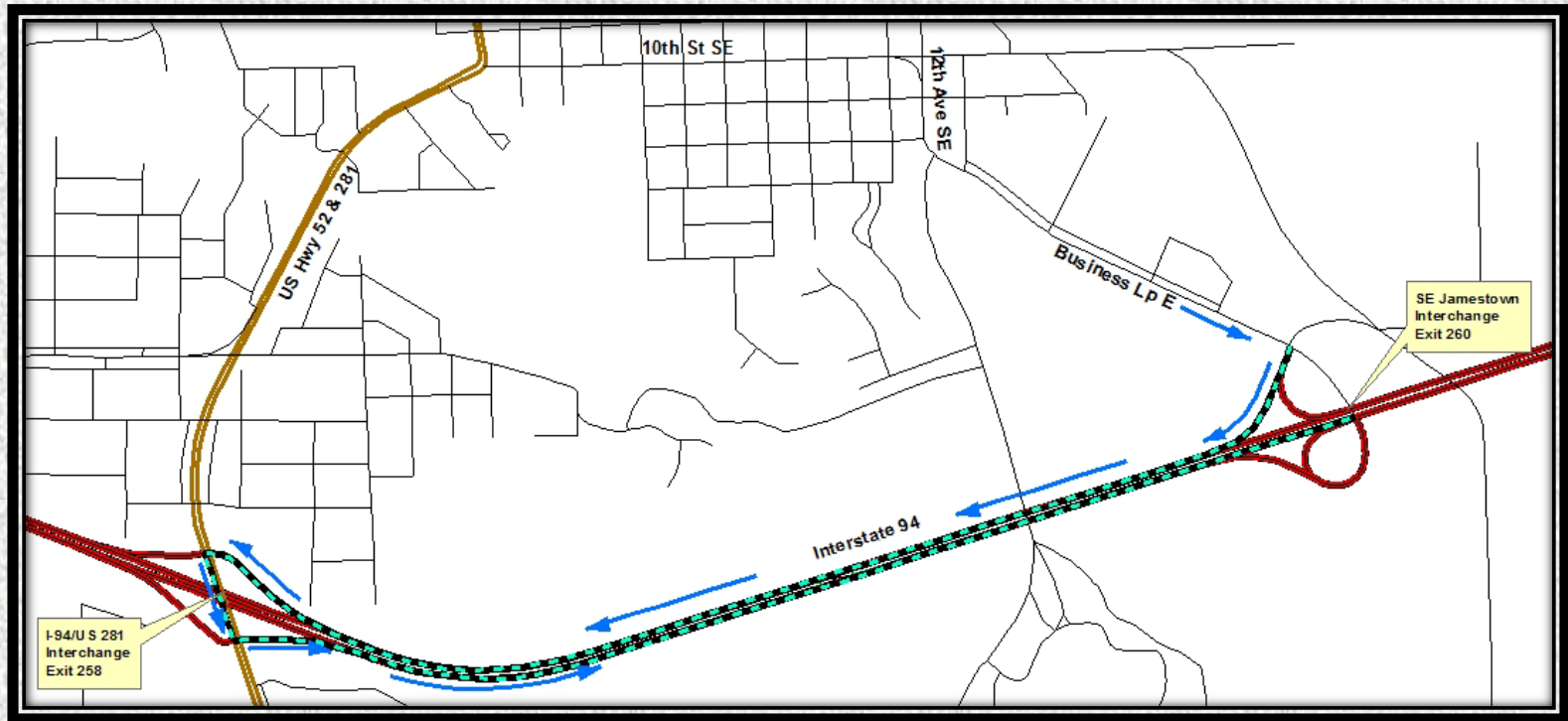


- **Westbound I-94 to Jamestown Business Loop traffic will travel west on I-94 to Exit 258. Traffic will then be detoured north on US 52/US 281 to 10th St SE and continue east to 12th Ave SE. From there, traffic will continue south on 12th Ave SE towards Business Loop East. The length of this detour is 4.76 miles.**

Traffic Control Challenges

- **Short term closures of the eastbound I-94 onramp and offramp will be necessary due to construction activities.**
 - **During some demolition activities while the existing bridge is being removed, the eastbound ramps will be closed. These types of closures are expected to last for 1 day or less.**
 - **While beams are being set for the new bridge, the eastbound ramps will be closed. These closures are expected to last for 1 day or less.**
- **Detour routes will be provided for these short term closures.**

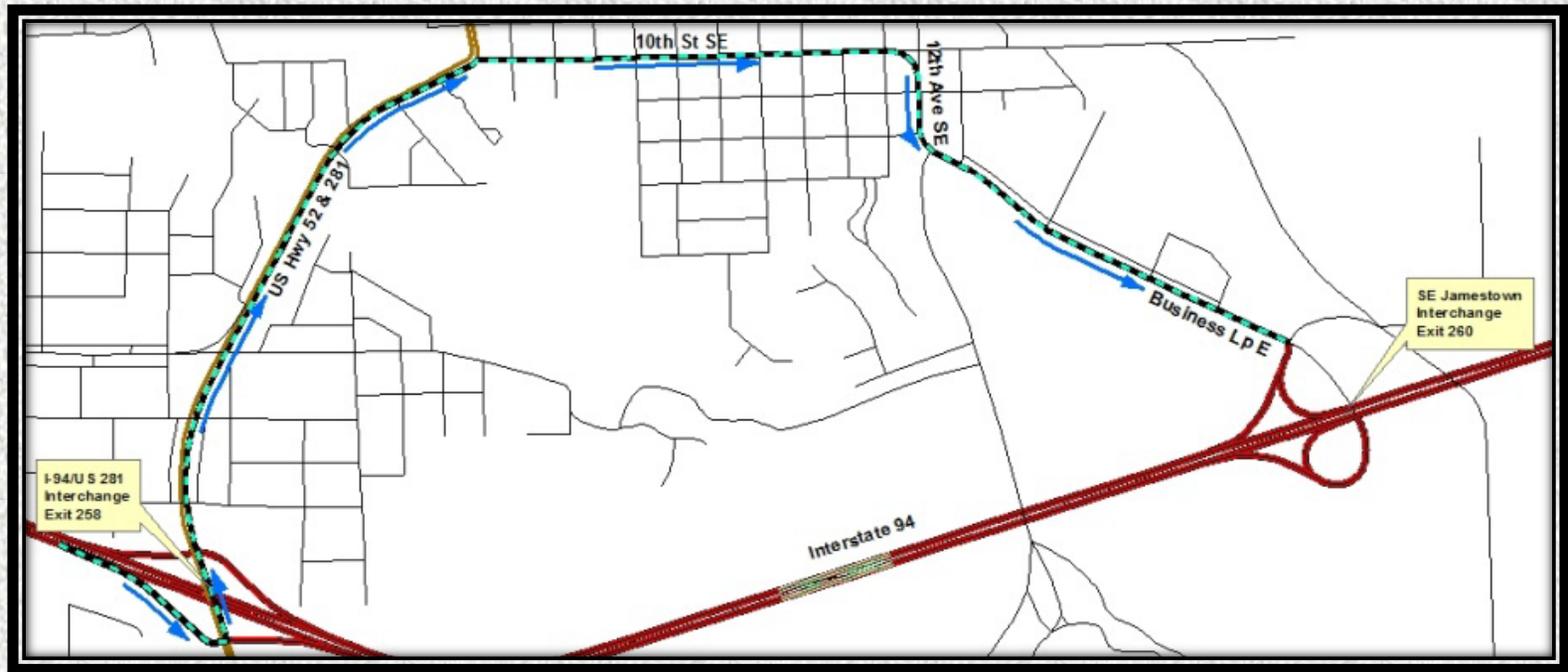
Detour Plan



Eastbound Onramp Closure

- **Southbound Jamestown Business Loop to Eastbound I-94 traffic will travel west on I-94 to Exit 258 and will return on I-94 traveling east. The length of this detour is 4.31 miles.**

Detour Plan



Eastbound Offramp Closure

- Eastbound I-94 to Jamestown Business Loop traffic will take Exit 258. Traffic will then be detoured north on US 52/US 281 to 10th St SE and continue east to 12th Ave SE. From there, traffic will continue south on 12th Ave SE towards Business Loop E. The length of this detour is 3.18 miles.

Proposed Reconstruction

- **The total estimated cost for the project is \$4,582,750 if a temporary exit ramp is to be constructed.**
- **The total estimated cost for the project is \$4,151,500 if the Westbound Exit 260 offramp is closed and a detour is used.**
- **The bid opening for this project is scheduled for March 10, 2017 and construction activities could possibly begin in May of 2017.**
- **Estimated project duration: Normally a maximum of 6 months is expected.**

Questions / Comments

- **We would appreciate it if you would fill out the survey sheets attached to your handout. This is voluntary only.**
- **Please be sure to sign the sign-in sheet before you leave.**
- **We will be here until 7:00 p.m. to discuss the project & answer questions.**
- **Thank you for attending!**