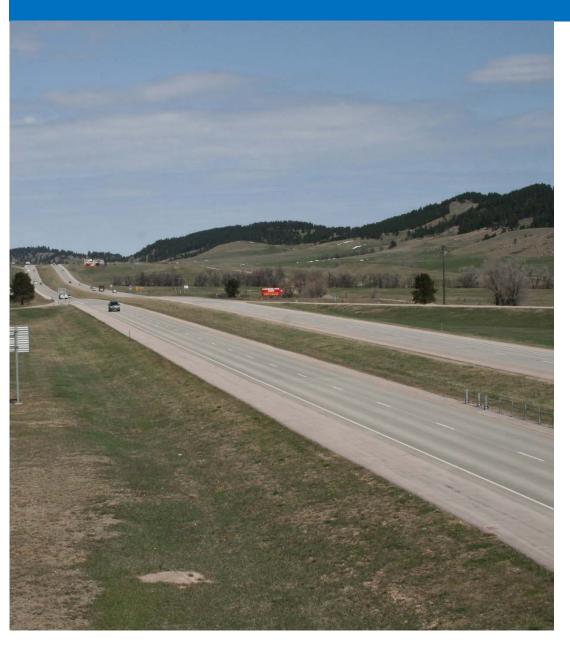
I-90 Exit 32 to 40 Corridor Study + Design

Public Meeting #1 December 20, 2017 Brown High School



Agenda



- 1 Introductions & Housekeeping
- 2 History & Background
- 3 Project Need & Goals
- 4 Project Stakeholders
- 5 Project Data
- 6 Next Steps & How to Get Involved



Housekeeping exit locations



History & Background

This section of I-90:

- Previously designated as US 14 and SD 79
- Became part of the US Interstate system in 1958 (longest route in US)

Construction History							
	Eastbound	Westbound					
1958	Sturgis to Tilford Port of Entry (Reinforced Concrete)						
1962	Tilford Port of Entry to Tilford (Concrete)						
1981	Sturgis to Tilford Port of Entry	Exit 37 to Tilford Port of Entry					
	(PCCP)	(PCCP)					
1982	Tilford Port of Entry						
1986	Tilford Port of Entry Modifications						
2004	Exit 32 Interchange Reconstruction						
2007	Tilford Port of Enty to Tilford (PCCP)	Exit 32 to Tilford (PCCP)					
2011	WIM						

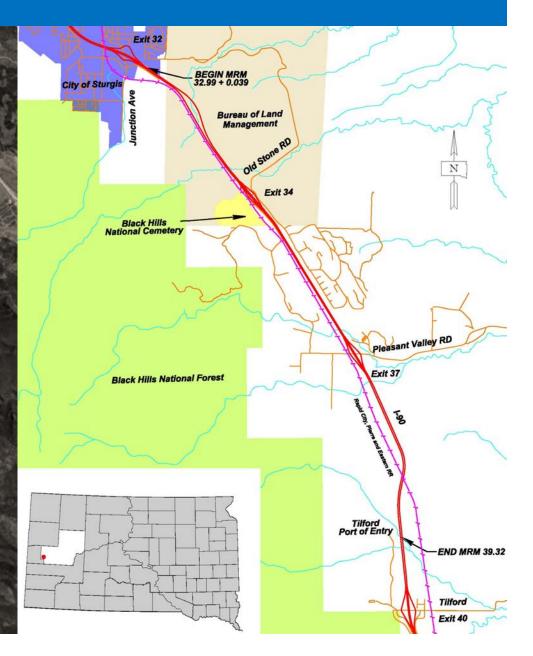
History & Background

Previous Completed Studies

- Interstate Corridor Study (2000)
- I-90 Black Hawk to Sturgis Corridor Preservation Study (2004)
- Decennial Interstate Corridor Study (2010)
- Meade County Master Transportation Plan (2016)

Project Need & Goals

- Replace eastbound lanes
- Drainage structures nearing end of useful life
- Interchanges do not meet current standards
- Address queuing issues at Tilford



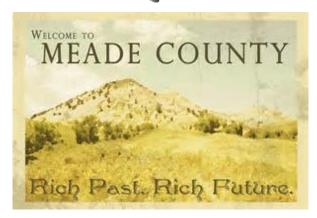
Project Need & Goals

- Determine traffic demand, structure needs, and geometric deficiencies of the I-90 corridor
- Identify and analyze conceptual improvements (corridor and interchanges)
- Develop feasible construction projects within the corridor
- Design and implement improvements

Project Stakeholders







Project Stakeholders

- 1. US Army Corps of Engineers (USACE)
- 2. Bureau of Land Management (BLM)
- 3. Black Hills National Cemetery
- 4. Sturgis Chamber of Commerce
- 5. Sturgis Economic DevelopmentCorporation
- Meade School District
- 7. Prairie Hills Transit
- South Dakota Highway Patrol Motor Carrier
- 9. Sturgis Emergency Services

- 10. Landowners and business owners
- Rapid City, Pierre, Eastern Railroad
 (RCPE)
- 12. Lower Brule Sioux Tribe
- 13. Sisseton Wahpeton Oyate
- 14. Standing Rock Sioux Tribe
- 15. Yankton Sioux Tribe
- 16. Cheyenne River Sioux Tribe
- 17. Oglala Sioux Tribe
- 18. Three Affiliated Tribes of ND
- 19. Northern Arapaho Tribe of WY
- 20. South Dakota GFP

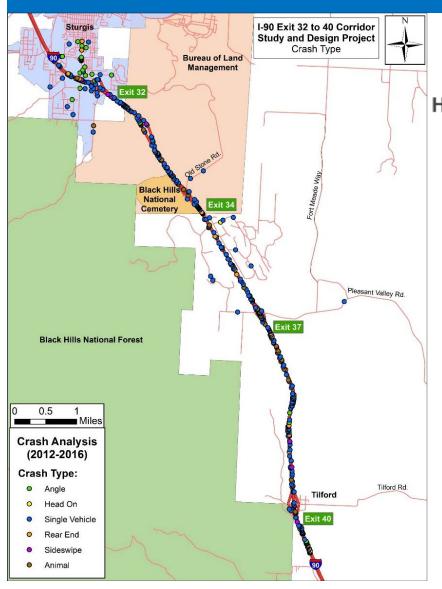
Crash Analysis

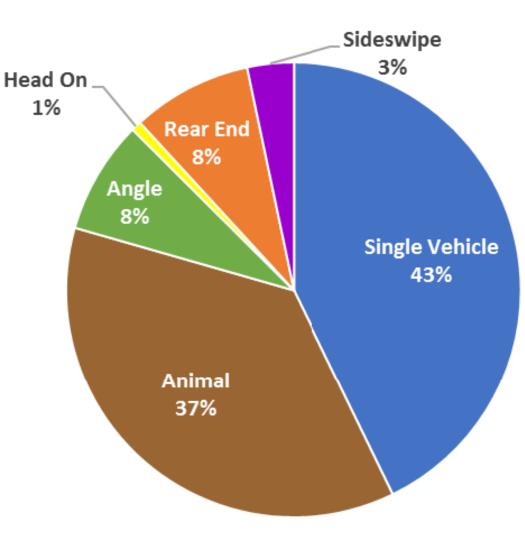
Total Crashes

Year	Number of Crashes					
2012	87					
2013	91					
2014	87					
2015	81					
2016	77					

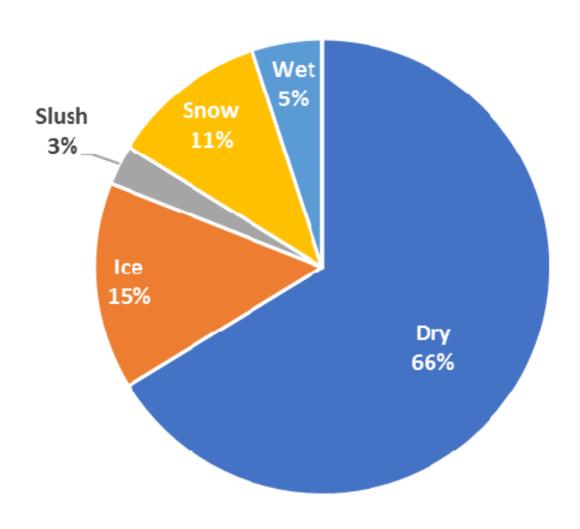


Crash Analysis - Crash Type

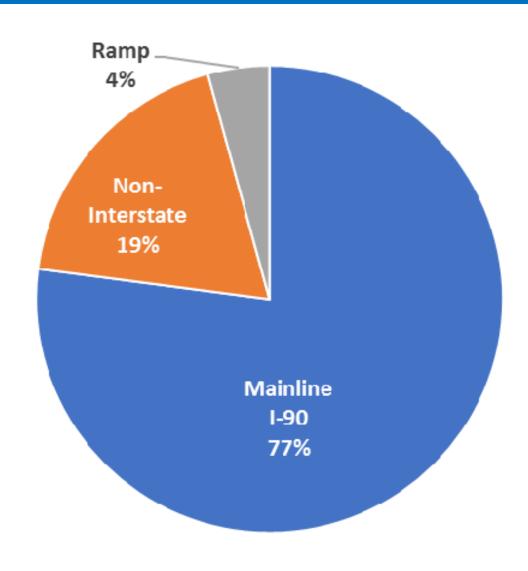




Crash Analysis - Road Condition



Crash Analysis - Location



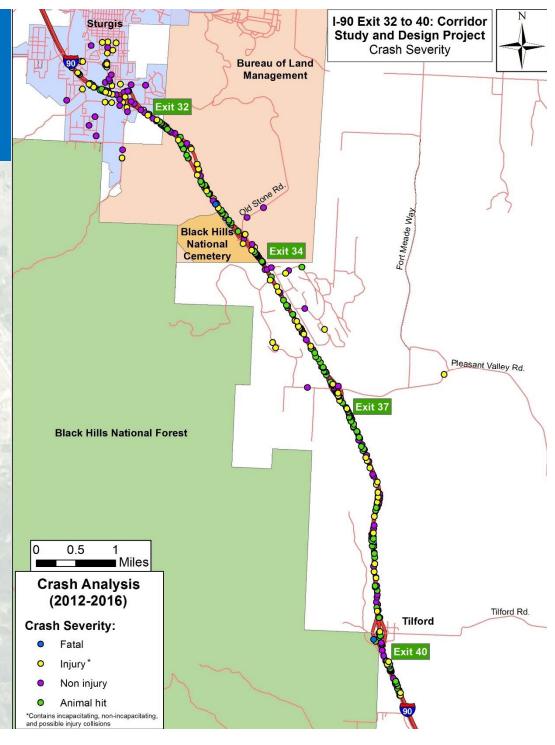
Crash Analysis - Severity

2 - Fatal

100 - Injury

190 - Non-Injury

131- Animal Hit



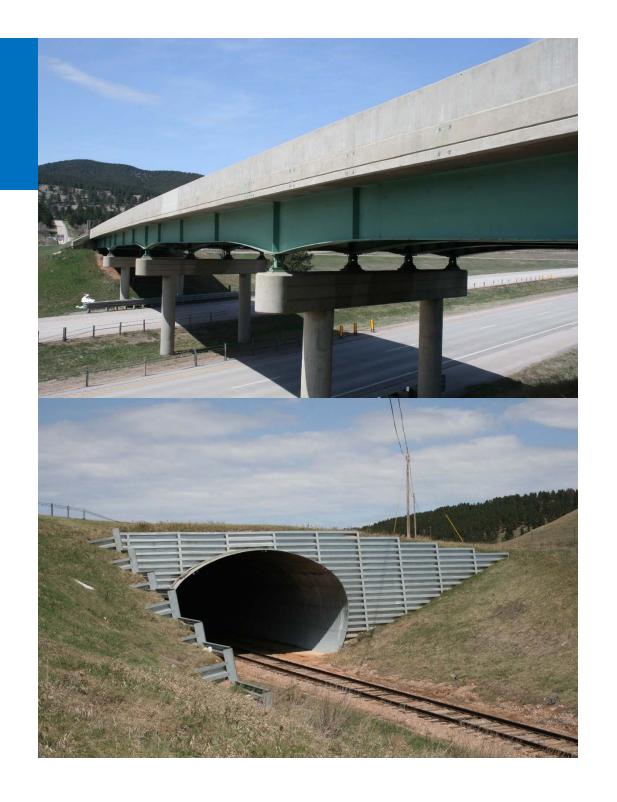
Bridge Review

Structure Inventory and Appraisal Reports (SIA)

National Bridge Inventory (NBI)

Maintenance History

Inspection Reports



Bridge Review - Age and Sufficiency

Bridge No.	Mileage Reference Marker	Feature Crossed	Туре	Age	Sufficiency Rating		
Mainline Struc	ture over Loca	al Roads					
47-048-462	34.81	I-90 EB over National Cemetery Rd	54	82.0			
47-048-461	34.81	I-90 WB over National Cemetery Rd	Conc. Slab Bridge	54	82.0		
Local Road Structures over Mainline							
47-061-480	37.01	Pleasant Valley Rd over I-90	Steel Beam Bridge	54	96.7		
47-069-510	40.20	Tilford Road over I-90	Steel Beam Bridge	53	86.0		
Culverts							
47-045-458	34.32	I-90 over Alkali Creek	Conc. Box Culvert	70	81.9		
47-064-484	37.40	I-90 over Pleasant Valley Creek	Conc. Box Culvert	61	82.0		
47-068-501	39.32	I-90 over Creek	Conc. Box Culvert	61	82.0		
47-068-503	39.45	I-90 over North Br Morris Creek	Conc. Box Culvert	61	82.0		
Railroad Tunne							
47-068-495	38.67	I-90 over CP/DM&E RR	Train Tunnel	36	82.0		

Bridge Review

Less than Desirable Clearance Over Local Roads

Substandard Lateral Clearance

Nonstandard Bridge Barriers



Existing Corridor Issues

- Stopping Distance
- Intersection Proximity to Interchange
- Curve Sharpness
- Snow Drifting Critical Areas
- Capacity at Tilford Port of Entry
- Slope Standards
- Adjacent Land Use
 - National Cemetery
 - Bureau of Land Management



Schedule

- 1. Corridor Study
- Determination of Construction Project(s)
- 3. Interchange Modification Justification Report(s) (IMJR)
- 4. Environmental Studies
- 5. Construction Plans

Upcoming Meetings

Meeting	2017	2018				2021				
ivicetilig	Fall	Winter	Spring	Summer	Fall		Winter	Spring	Summer	Fall
Public Meeting #1	\									
Stakeholder Meeting #1		\star								
Dublic Mooting #2				J						
Public Meeting #2				<u> </u>						
Stakeholder Meeting #2					X					
Public Meeting #3									7	
Landowner Meeting										\Rightarrow

Next Steps

Corridor Study:

June 2017 - February 2018 stakeholder meetings in January

Environmental Studies:

January 2018 - September 2019

Construction Plan Development:

January 2018 - September 2021

How to Get Involved

Leave a Comment Related to this Meeting:

Tonight

Written (place in comment box) or Oral

After Tonight (Comments accepted until January 5, 2018)

- Written (Take a comment card with you)
- Website (www.i90exit32to40.com)
- Contact Me (phone, email, letter)

Enter the Photo Contest – Opens in January!

Attend an Upcoming Public Meeting

Project Staff are available to answer questions

How to Get Involved

It's the end of the presentation but the night isn't over.

Review the Existing Issues Map.

Do you have an issue that should be included? Let us know.

sign up for the State's listserve to receive email updates: https://listserv.sd.gov/scripts/ wa.exe?A0=I90EXIT34TO37

Visit us on our webpage: www.i90exit32to40.com