

I-90 Exit 32 to 40 Corridor Study + Design

Public Meeting #2 December 10, 2018 Brown High School, Sturgis, SD



## Agenda

- 1 Introductions & Housekeeping
- 2 Project Need & Goals
- 3 Concept Development
- 4 Environmental Concerns
- 5 Alternative Evaluation
- 6 Next Steps & How to Get Involved

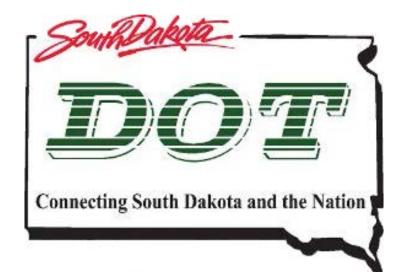




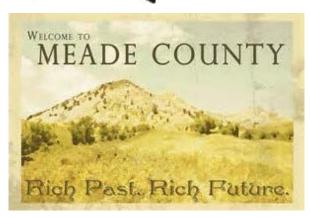
### Housekeeping exit locations



#### **Project Stakeholders**







### Project Need & Goals

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

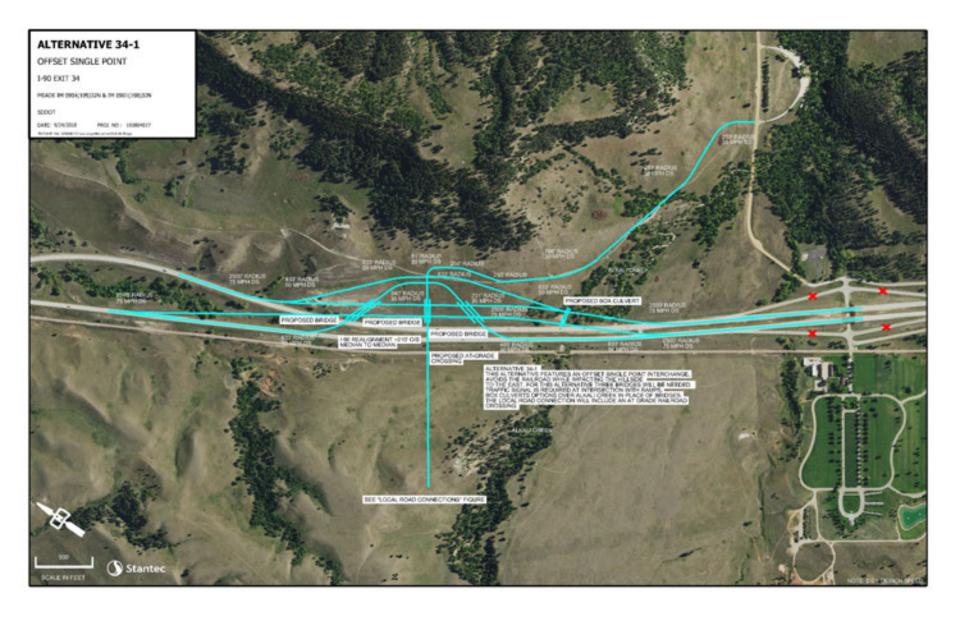


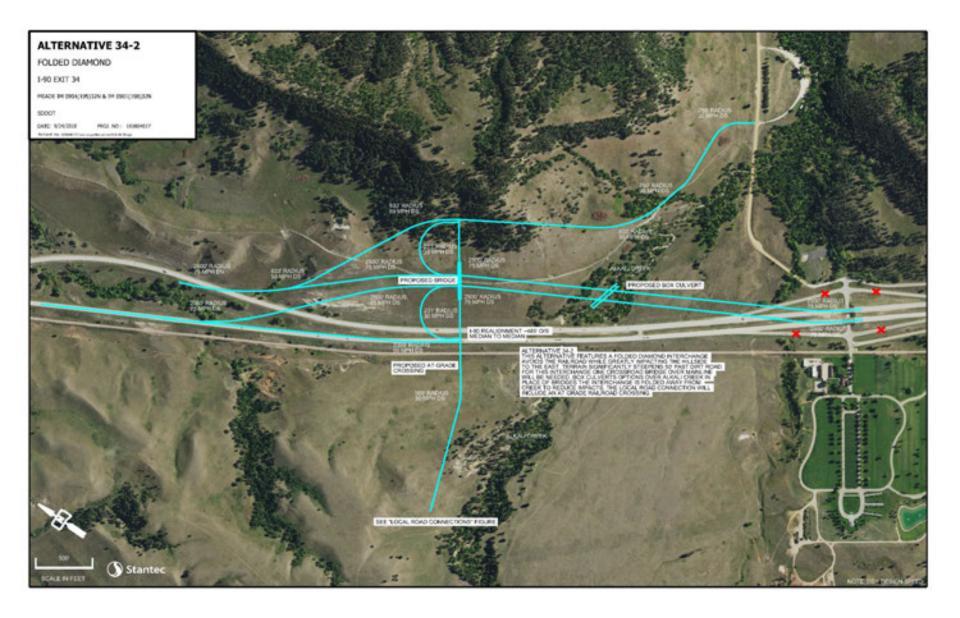
#### Project Need & Goals

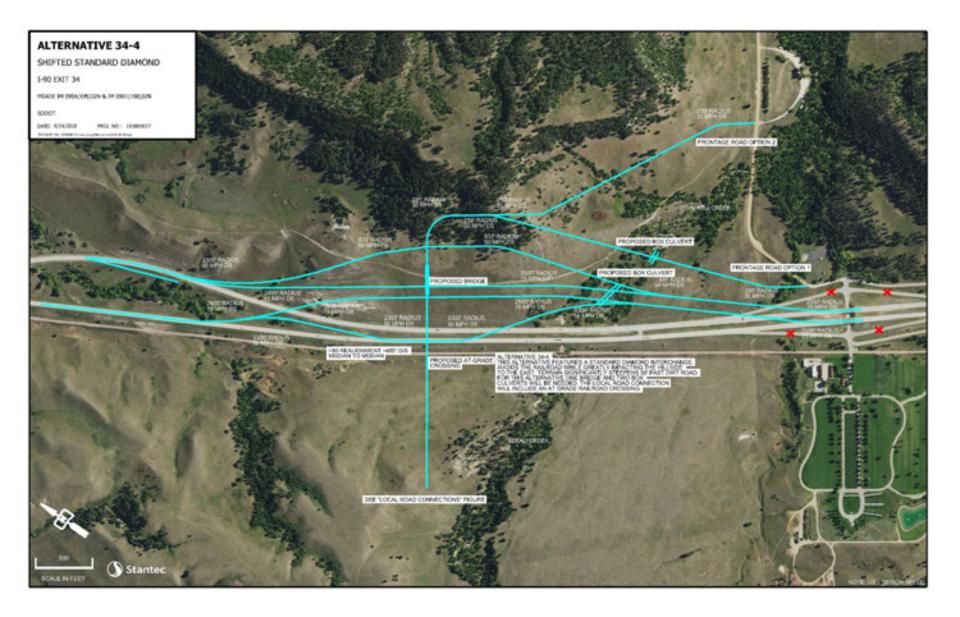
- Identify and analyze conceptual improvements (corridor and interchanges)
- Develop feasible construction projects within the study area
- Design and construct improvements

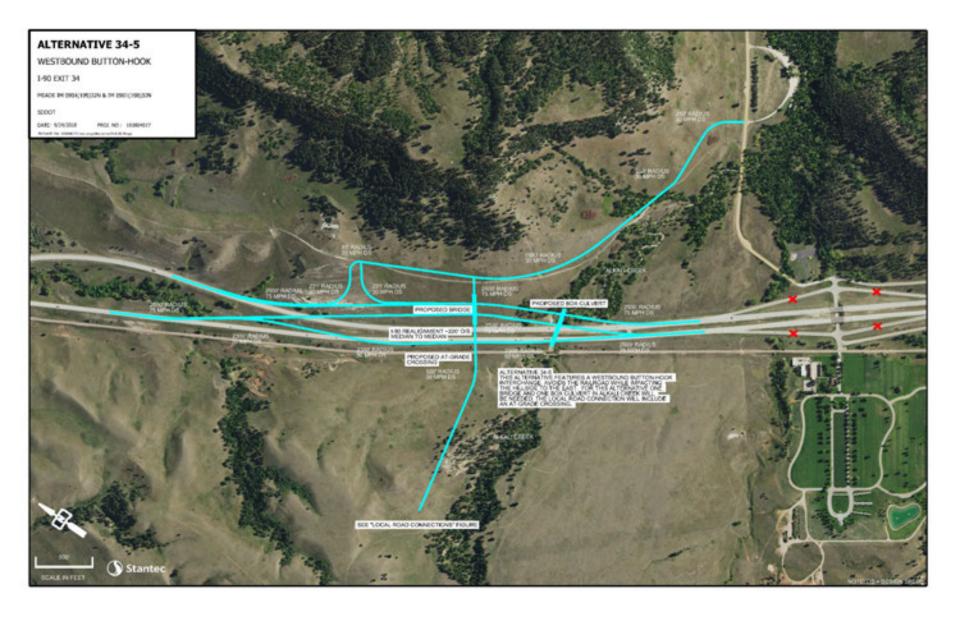
#### Concept Development

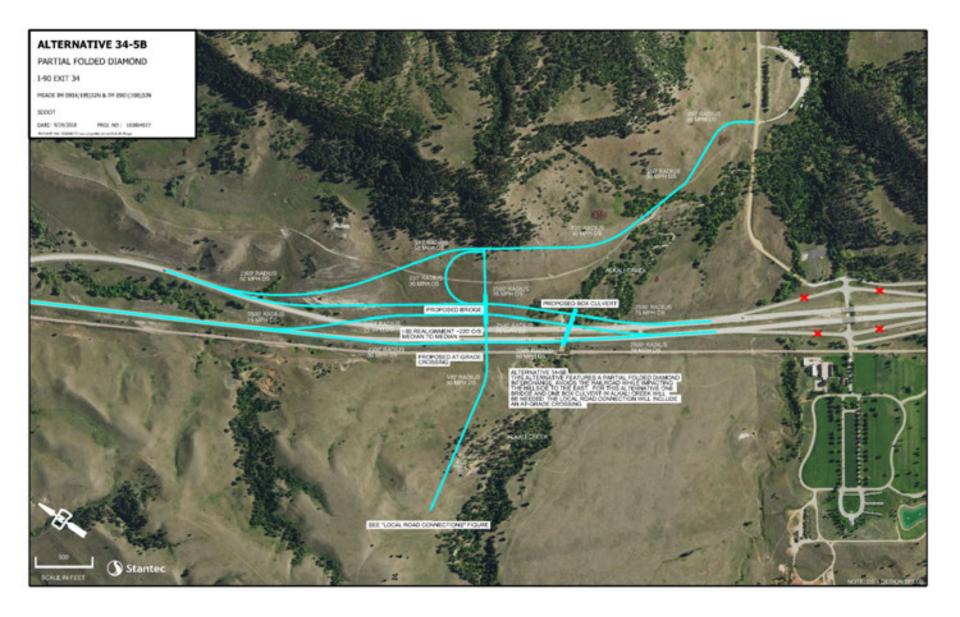
- Issues and deficiencies were identified
- Project Study Advisory Team (SAT) workshop in May, 2018
- Concepts developed
- SAT workshop to review and refine options in Sept. 2018
- Preliminary decision to advance with two projects

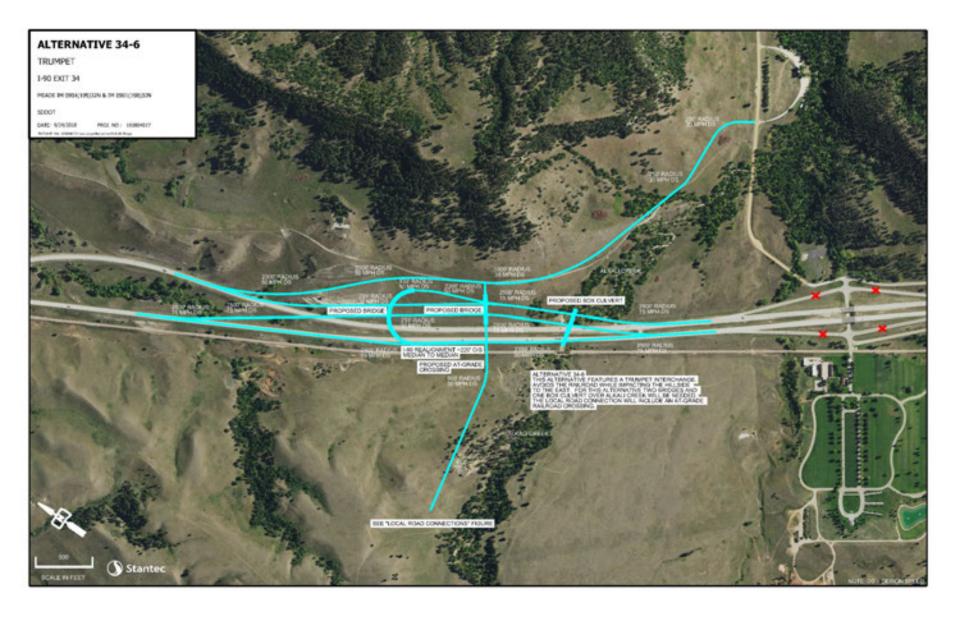




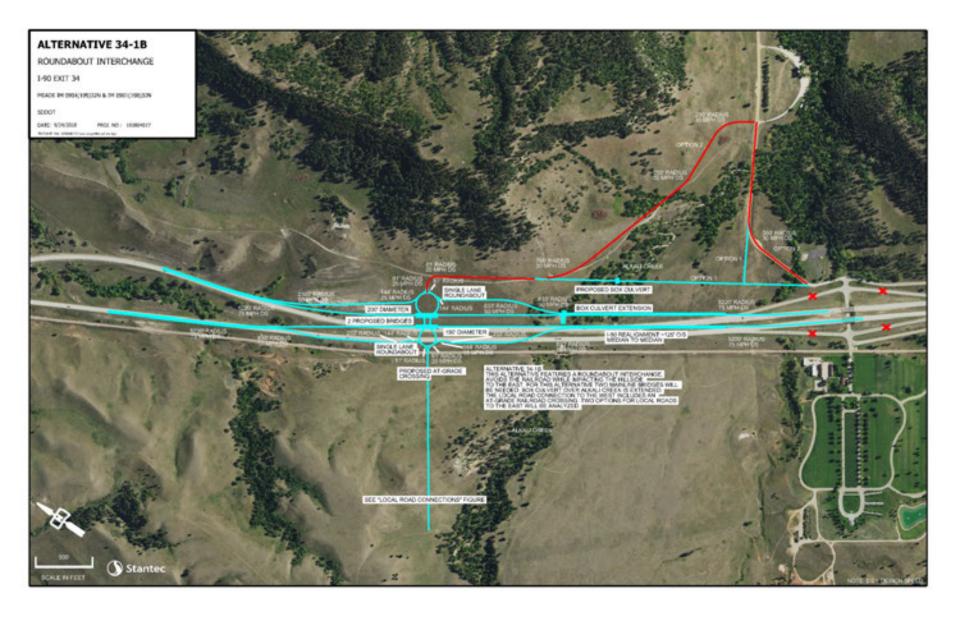




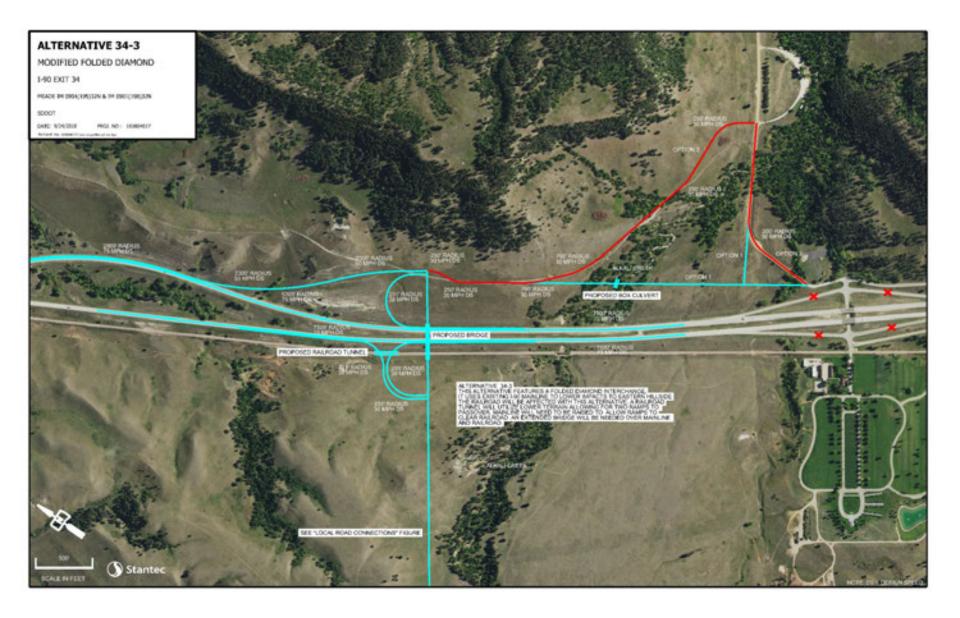




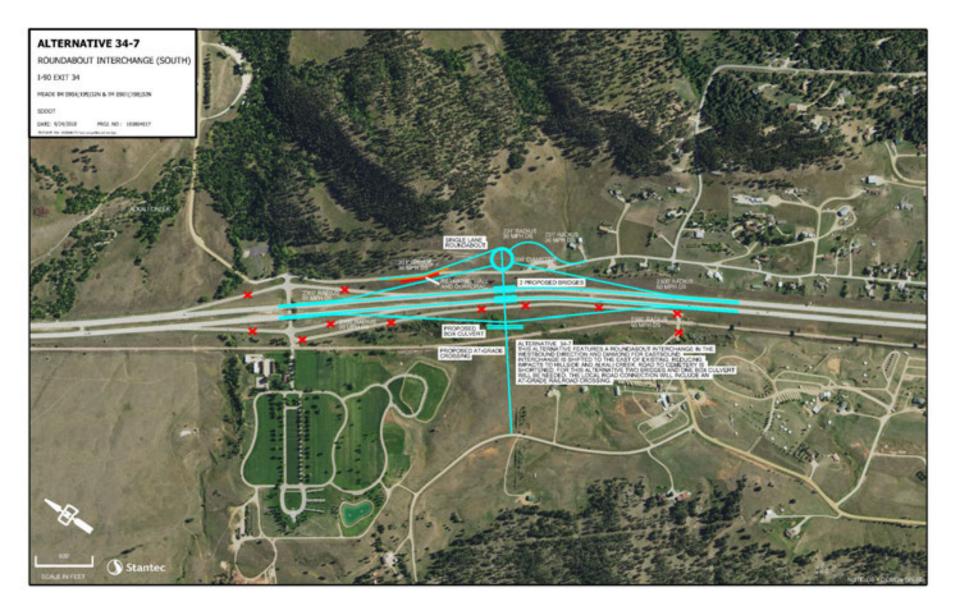
## Exit 34 – Concepts for Further Study



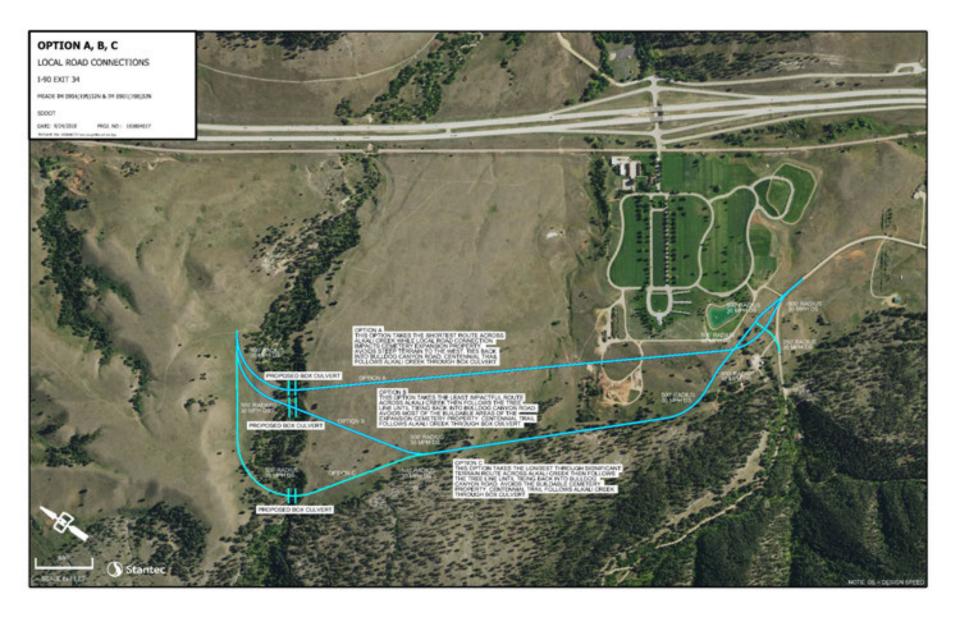
## Exit 34 – Concepts for Further Study



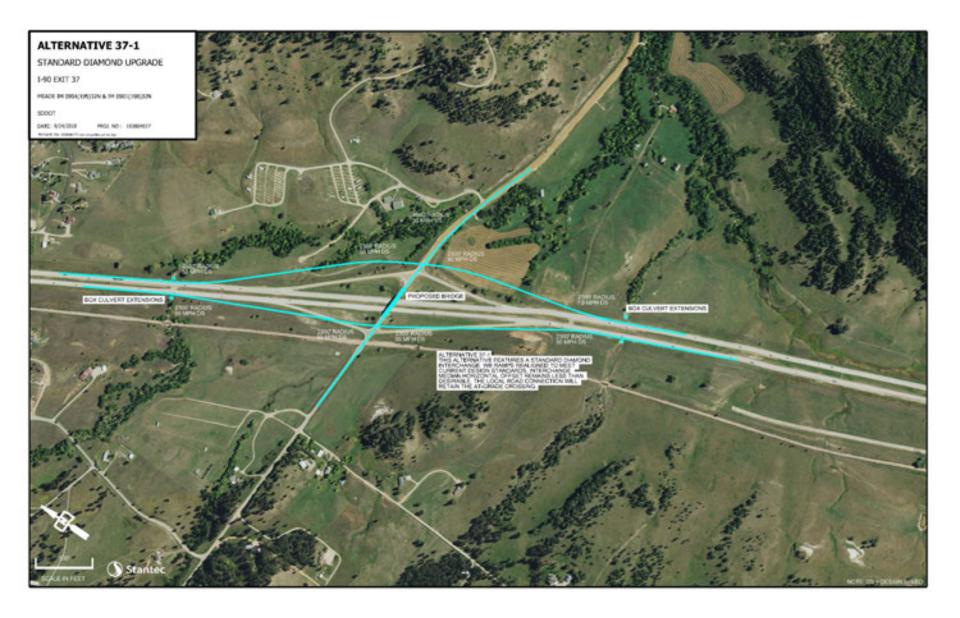
#### Exit 34 – Concepts for Further Study



#### Exit 34 – Local Road Options



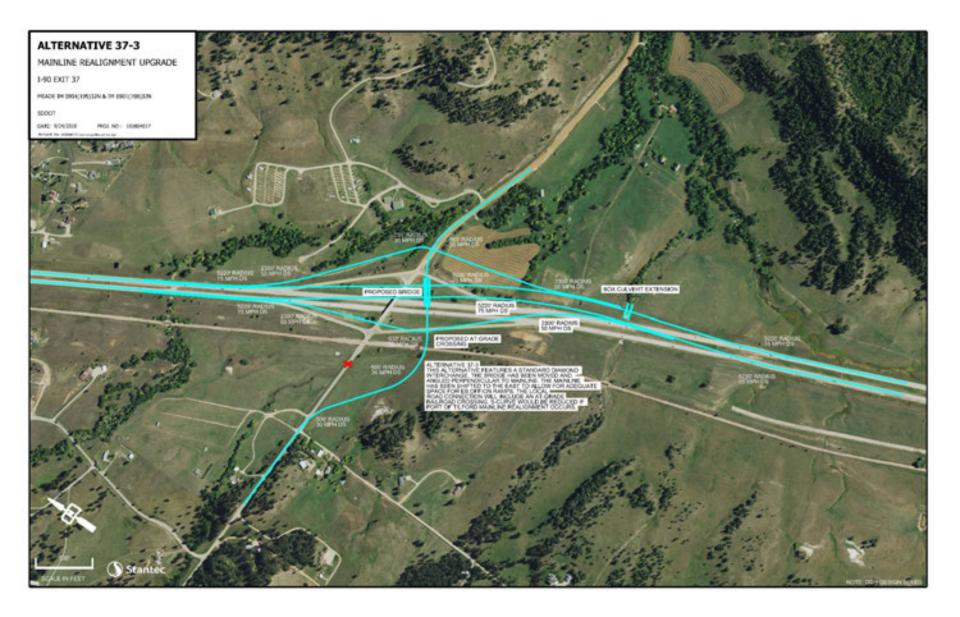
## Exit 37 – Concepts for Further Study



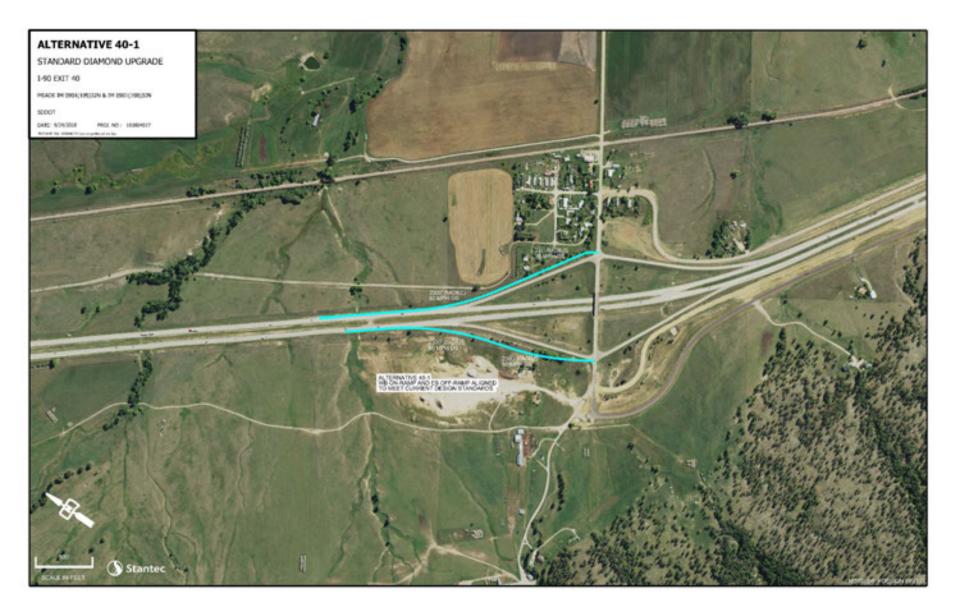
## Exit 37 – Concepts for Further Study



## Exit 37 – Concepts for Further Study



#### Exit 40 – Preferred Concept



## Environmental Concerns

#### Key Issues

- Water Resources
  - ✓ Wetlands/Floodplains/Surface waters
- Wildlife and Vegetation



- ✓ Bird and Animal Migrations/Threatened and Endangered
- Cultural Resources
  - ✓ Archaeological Sites and Structures/Historic Properties
- Parks and Recreation Facilities (4(f))
- Noise/Visual Resources

### **Environmental Concerns**

#### Agency Coordination

- Bureau of Land Management (BML)
- U.S. Forest Service (USFS)



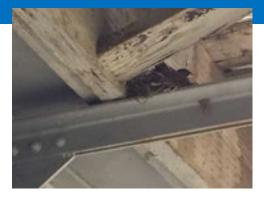
- U.S. Army Corps of Engineers (USACE)
- U.S. Fish and Wildlife Service (USFWS)
- Federal Highway Administration (FHWA)
- S.D. Department of Environment and Natural Resources (SDDENR)
- South Dakota State Historic Preservation Office (SHPO)
- Tribal Historic Preservation Office (THPO)
- South Dakota Game Fish and Parks (SDGFP)
- City of Sturgis



#### Environmental Concerns

#### **Studies Completed**

• Water Resources



✓ Desktop Delineation Completed Spring 2018
✓ Field Work Delineation Completed Spring/Summer 2018
✓ Reviewed FEMA Floodplain Mapping 100 year and 500 year

• Wildlife and Vegetation

✓ USFWS Database and SDGFP Information (NatureServe)

Cultural Resources

✓ Class I Survey (Windshield survey, records search, BLM)

### Exit 34 – Environmental Concerns



#### Water Resources

- Delineated Wetlands
- Surface waters
  - -Alkali Creek
  - -Unnamed Creek



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Field Defineated Wetland
Field Defineated Waterway
Field Defineated Waterway Area
Desktop Defineated Wetland
FEMA Flood Zone

100-year Flood Zone 100-year Floodway 500-year Flood Zone

## Exit 34 – Environmental Concerns



#### **Public Lands**

- Bureau of Land Management
- Black Hills National Cemetery
- Alkali Creek Centennial Trail
- 7th Calvary Trail System
- Fort Meade Recreation Area



### Exit 34 – Environmental Concerns



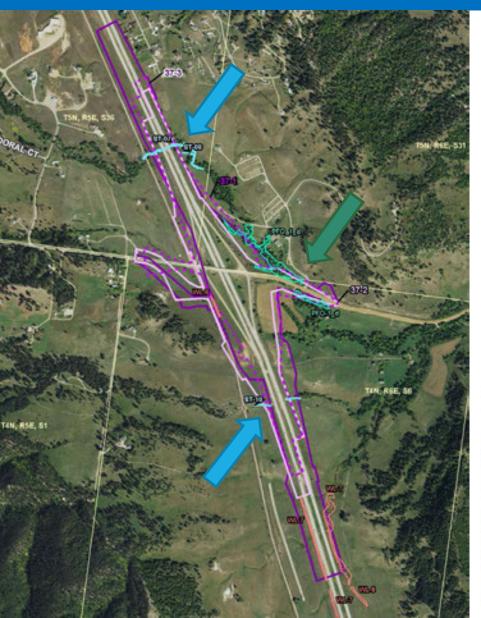
#### **Cultural Resources**

- Fort Meade Archeological Site
- Fort Meade Historic District
- Registered/ **Recommended Sites**

#### Legend

**Grading Alternative** Local Road Option A Local Road Option B Local Road Option C Fort Meade Historic District Fort Meade Archaeological Site Sites

### Exit 37 – Environmental Concerns



#### Water Resources

- Delineated Wetlands -Forested Wetlands
- Surface waters
  - –Unnamed Creek

#### Legend

- **Grading Alternative** 
  - Local Road Option A Local Road Option B Local Road Option C 34-1B

- **Reld Delineated Wetland** Field Delineated Waterway Field Delineated Waterway Area 1.44 Desktop Delineated Wetland FEMA Flood Zone
- 100-year Flood Zone 100-year Floodway 💋 500-year Flood Zone

#### Exit 37 – Environmental Concerns



#### **Public Lands**

 Controlled Hunting Access Program (CHAP)



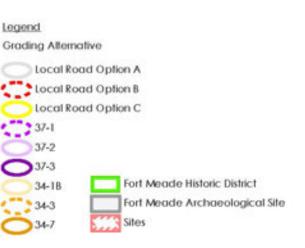
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### Exit 37 – Environmental Concerns



#### **Cultural Resources**

 Registered/ Recommended Sites



### **Alternative Evaluation**

Safety Improvements **Geometric Needs** Environmental Impacts Wetland Cost Railroad Traffic and LOS "Level of Service" Constructability Issues Impacts to access for current and future development ogica **Right of Way** Rð Impacts **Flexibility with** Sta **Future Development** raffic **Bicycle Facility** Enhancement **Utility Impacts** 

More Important

- Corridor Study: End of 2018
- Identify Construction Projects: Spring 2019
- Submit Interchange Modification Justification Reports: Summer 2019
- Complete Environmental Studies (1<sup>st</sup> Project): Fall 2019
- Finish Detail Design (1st Project): Fall 2021
- Construction Start: 2022 & 2024

### How to Stay Involved

# Which is your favorite? Comments or concerns? Please let us know.

#### **Submit Comments:**

- Tonight
  - Written (place in comment box)
  - Oral

After Tonight (Comments accepted until December 24, 2018)

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

#### How to Stay Involved

#### Attend the Next Public Meeting - Summer 2019 Landowner Meetings - Fall 2019

Sign up for the State's listserve to receive email updates: *https://listserv.sd.gov/scripts/ wa.exe?A0=I90EXIT34T037* 

Visit us on our webpage: www.i90exit32to40.com



#### Thank you for coming.

#### Project Staff are available to answer questions (Stantec, SDDOT, Meade County, FHWA)

**Please drive home safely!**