SD10 - Houghton to Britton

Engineering Flowchart

DOES IT MOVE?

No

- Should it?
  - No
    - No Problem
  - Yes
    - No Problem

Yes

- Should it?
  - Yes
    - No Problem
  - No

Mark Malone, PE       SD DOT      March 23, 2020
Project Limits

SD10 from ½ mi west of Houghton to Britton

Total project length = 23.9 miles
Highway Deficiencies

- Narrow Shoulders
- Bridge and Culvert Condition
Proposed Improvements

- Widen shoulders to 6’
- Repair or replace culverts
- Replace bridge
- Add left turn lanes at both SD37 intersections

Mill & asphalt resurfacing project is planned for the following year
Why Shoulder Widening?

- **Strategic Highway Safety Plan**
  - Data-driven plan to reduce fatal and serious injury crashes

- **Wider shoulders = safer roadway**
  - Reduces roadway departure crashes
    - 59% of all severe crashes
  - Provides recovery area
  - Allows for emergency parking, farm equipment, etc.
Why are we here?

- Involve the public in the design process
- Provide a Project Overview
- Gather Input and Comments
Grading in 1949 / 1955
Most box culverts installed in 1923
Bridge was built in 1949
Last resurfaced in 2006 / 2010
Traffic

- 2019 Average Daily Traffic (ADT) = 819
  - 20 year ADT = 1011
  - 17.0% Trucks
Crash History

- 5 Year Period from 2014 - 2018
  - 56 Reported Crashes
    - 45 Animal hit
    - 2 Other property damage only
    - 9 Injury
  - 0 Fatalities
  - Reported Crash Rate = 1.60

- Rural Minor Arterial
  - Statewide Weighted Crash Rate = 1.69
  (crashes per million vehicle miles of travel)
Proposed Roadway

- Typical Proposed ROW 75'
- Existing ROW 50'
- Fill Section
- 6' 12' 12' 6'
- Cut Section
- Existing ROW 50'
- Typical Proposed ROW 75'
Right of Way (ROW)

- Existing Width: 150 feet west of 410th Ave
  100 feet east of 410th Ave
- Purchase 50’ additional ROW from 410th Ave to Britton (12 miles)
- Temporary Easements as needed for construction

Area to be acquired

Proposed ROW  |  Existing ROW  
---|---
25'  

See Handout
Borrow

- Additional fill material needed for widening and grading
- Shave hill or dig hole
- Site 1 mile or less from project preferred
- Compensation for fill material, crop damage and temporary loss of use
- If interested, contact the Aberdeen Region Materials Engineer:
  Jeff Steen @ (605)626-7883
Access Management

- To provide safe, efficient access to streets and highways
- Limit number of direct accesses to major roadways
  - Relocate to section line roads
  - Combine entrances in close proximity to each other
  - Share entrances on property lines

See Handout
Encroachments

- **Encroachments - Private Property Located Within the Public ROW**
  - Federal Highway Regulations
  - Safety

- **Examples of Encroachments**
  - Signs
  - Private Use (Parking)
  - Landscaping Items

- **Owners of Encroachments will be Notified by the Aberdeen Area Office**

See Handout
Utility Coordination

- Some Utilities may need to be relocated
- Utility Companies may negotiate easements with landowners as needed

Venture Communications  
Ottertail Power  
James Valley Telecommunications  
Lake Region Electric  
Northern Electric

See Handout
Any Known Private Utilities?
- Waterlines
- Drainfields
- Septic Tanks
- Underground Storage Tanks
- Underground Power Lines

Contact SDDOT

See Handout
This project is being developed in accordance with applicable State and Federal environmental regulations.

In accordance with the National Environmental Policy Act of 1969 (NEPA), as amended, coordination has been initiated with State & Federal resource agencies.

See Handout
Environmental, Social & Economic Concerns

- A cultural resources survey will be conducted.
- The project is being reviewed to determine extent of impacts to wetlands, game production areas, etc.
- Endangered and Threatened Species:
  - Birds: Whooping Crane, Red Knot
  - Mammals: Northern Long-Eared Bat
  - Insects: Dakota Skipper, Poweshiek Skipperling

See Handout
Traffic Impacts

- Traffic maintained throughout project
- 1 lane with pilot car & flaggers at work areas
- Slower traffic anticipated – expect delays
- Width restriction
Estimated Cost

$10.35 Million
Landowner Meetings: Summer 2020
Final Design: Early 2021
ROW Acquisition Process: Spring 2022
Construction: 2023 & 2024

Dependent on Federal Funding
Landowner Meetings

- Summer 2020
  - Affected property owners will be contacted by SDDOT to schedule appointment

- Your opportunity to:
  - Review impacts to your property
  - Discuss specific items
  - Provide input

See Handout
Written Comments Due Monday, April 6

- Mail - 700 E Broadway Ave, Pierre, SD 57501
- Email – mark.malone@state.sd.us
- Here - Now

Website (project information)
Meeting Opinions

Please fill out the survey at the back of the project information packet

OR online at this address:

http://www.surveymonkey.com/r/SDDOT-Public-Meeting-Survey

OR follow this link:

Thank you!
Q&A

You have Questions
We have Answers