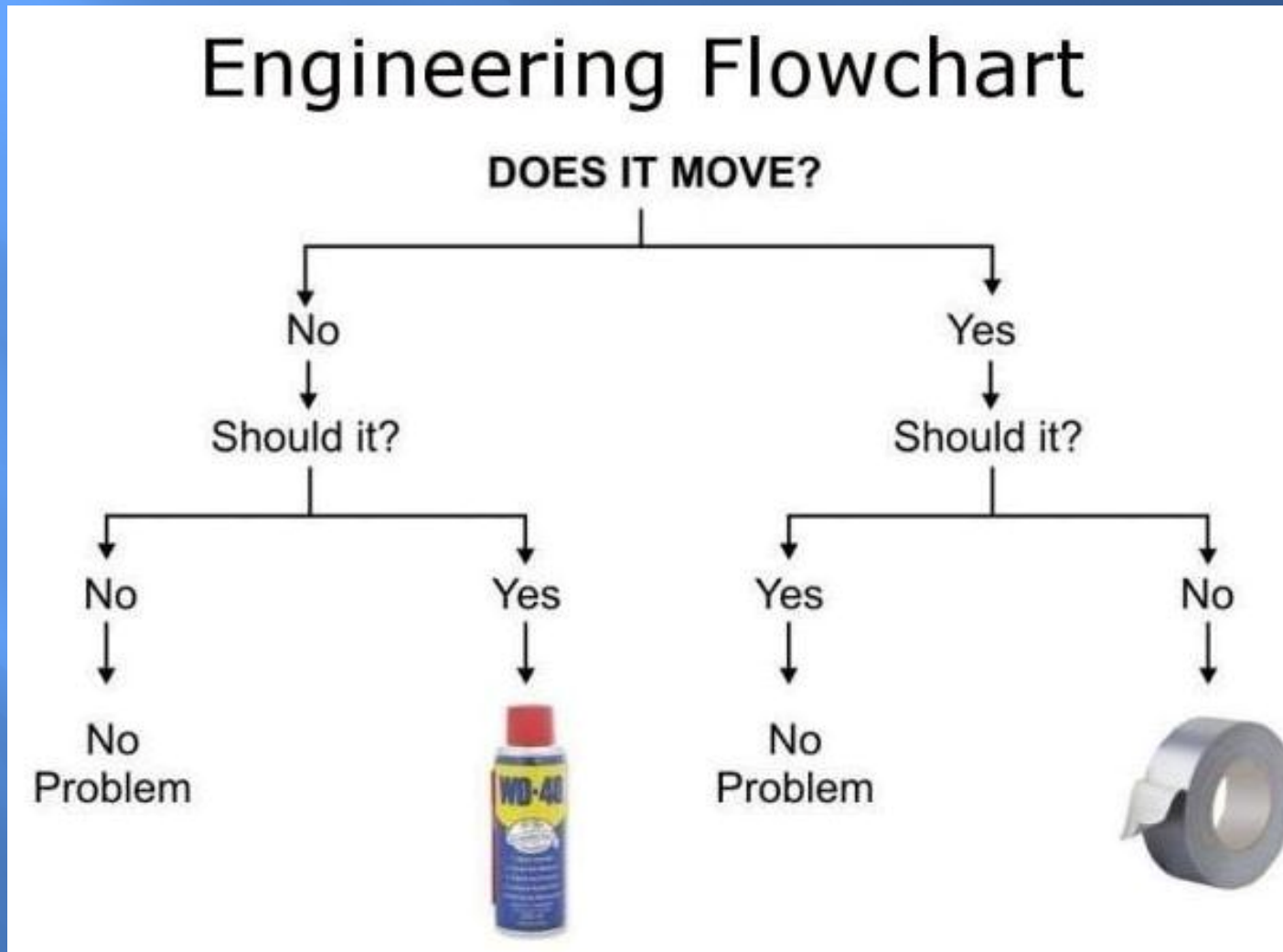


# SD10 - Houghton to Britton

## Engineering Flowchart



Mark Malone, PE

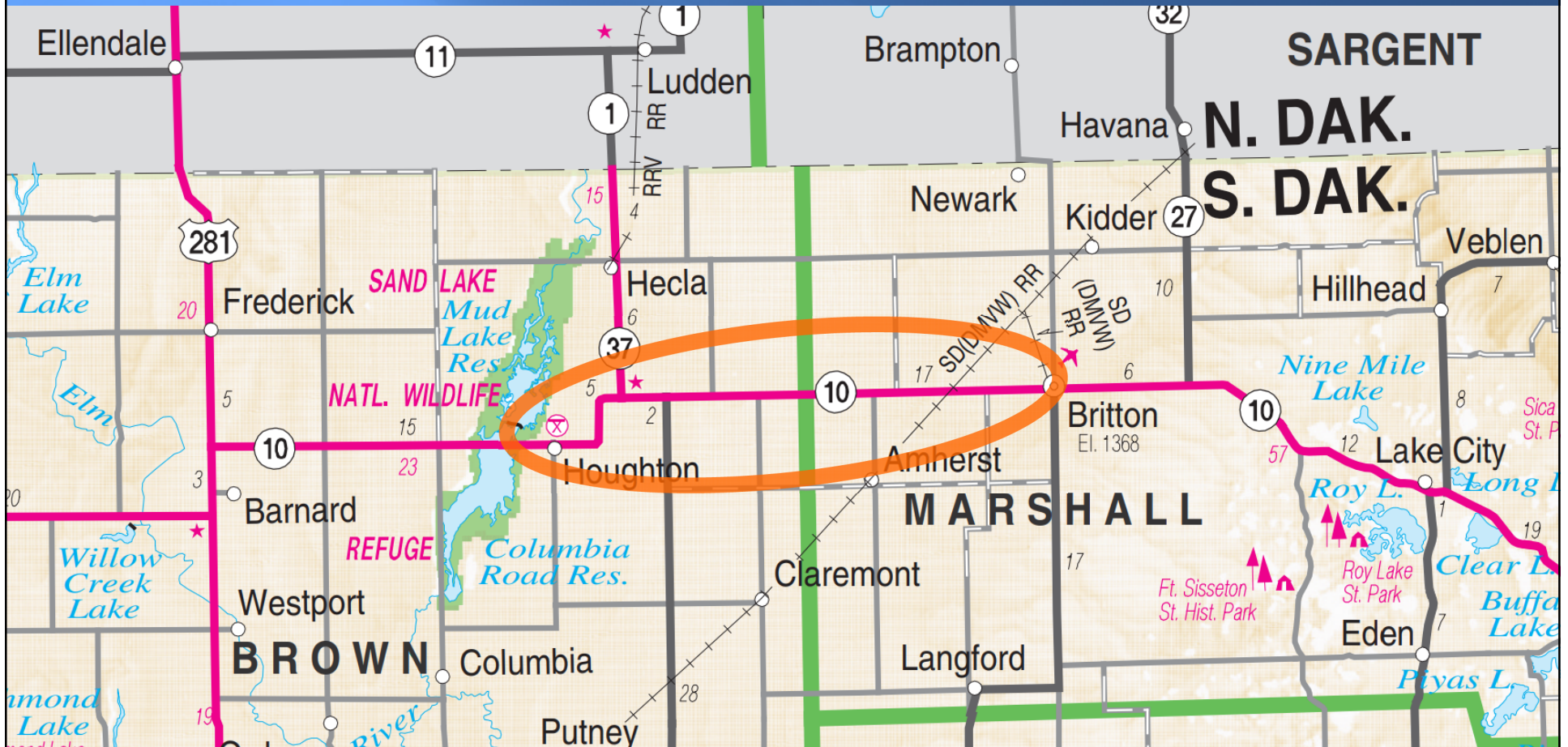
SD DOT

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



# Background Information

- 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



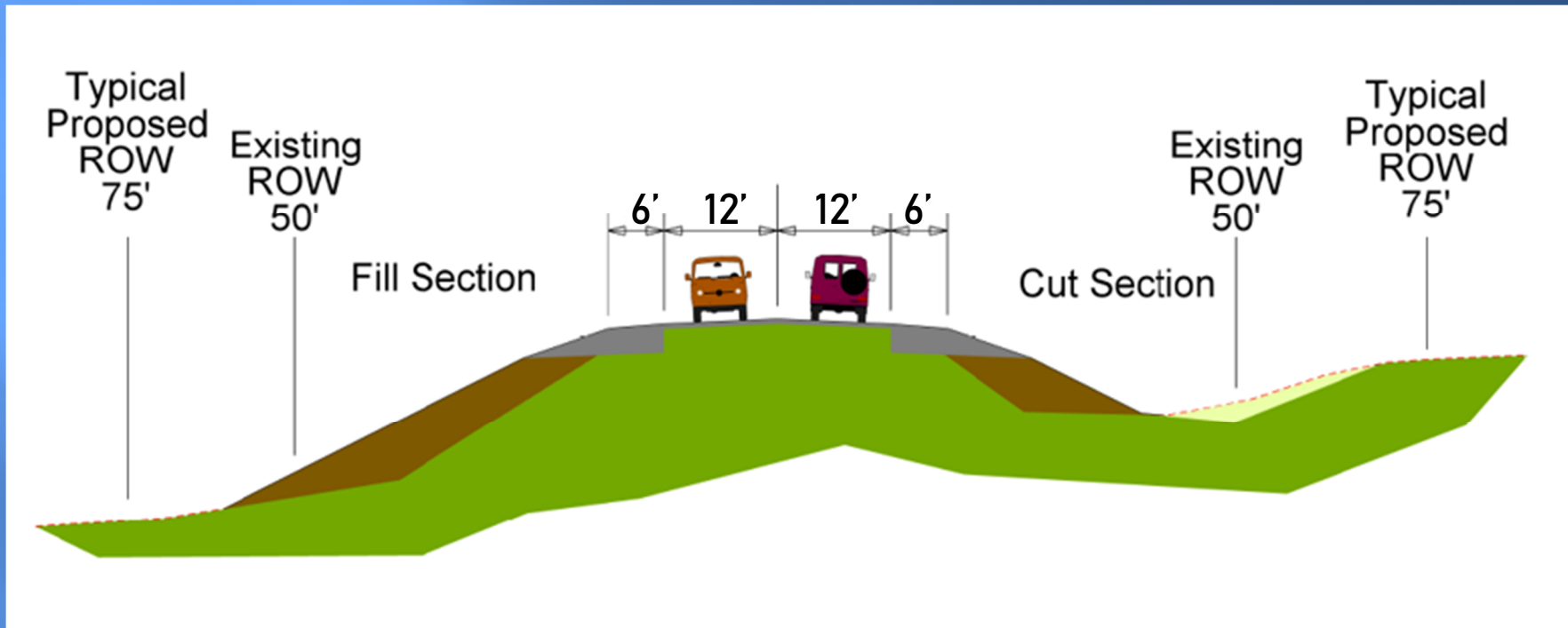


# Crash History

- **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)



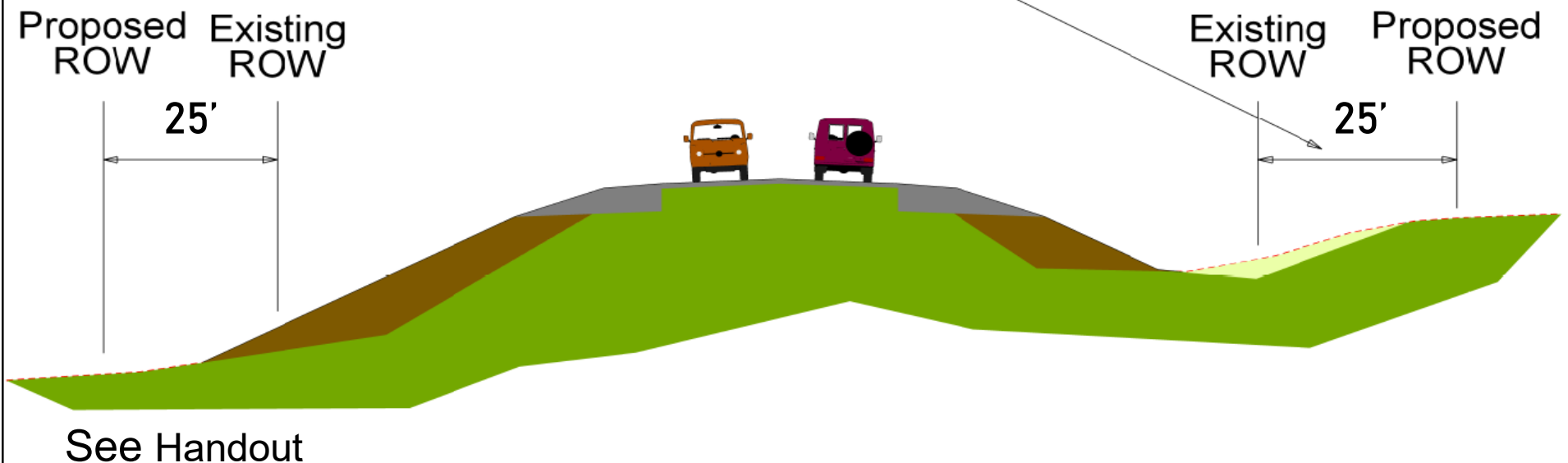
# Proposed Roadway



# Right of Way (ROW)

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

Area to be aquired



# 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



# Utility Coordination

## ➤ Any Known Private Utilities?

- Waterlines
- Drainfields
- Septic Tanks
- Underground Storage Tanks
- Underground Power Lines

## ➤ Contact SDDOT

See Handout





# Environmental, Social & Economic Concerns

- 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





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**Landowner Meetings**

**Summer 2020**

**Final Design**

**Early 2021**

**ROW Acquisition Process**

**Spring 2022**

**Construction**

**2023 & 2024**

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**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](mailto:mark.malone@state.sd.us)
- Here - Now



Comments  
encouraged!

## ➤ **Website (project information)**

- <https://dot.sd.gov/projects-studies/projects/public-meetings>



# Meeting Opinions

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

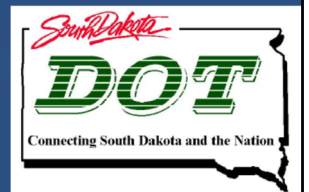
OR online at this address:

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

OR follow this link:



Thank you!





Q&A

You have

Questions

We have

Answers