Status of 2015-16 County and Township Road and Bridge Investment Needs Study

Transportation Committee
State Capitol – Rough Rider Room
November 12, 2015

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Upper Great Plains Transportation Institute
Today’s Presentation

• Status of County and Township Road and Bridge Investment Needs Study
• Status of Local Roads Asset Management Initiative
  – Overlaps with Needs Study
  – Advanced by 2015 Legislature
  – Geographic Roadway Inventory Tool
    • Name created by county user group
Local Roads Infrastructure Needs Study History

2007: NDDOT
2009: NDDOT Level of Service Study
2010: ND Assoc. of Oil and Gas Producing Counties/ND Dept. of Commerce
2010: ND Agricultural Impact Study
2011-13: North Dakota Legislature
2013-15: North Dakota Legislature
2015-17: North Dakota Legislature
Primary Steps of 2015-17 Study

1. Data collection

2. Data analysis

3. Cost forecasting & report generation
Primary Steps – Data Collection (Cont.)

Traffic counting/truck classification
- 1600 + classification counts completed on county major collectors
  - Completed August 2015

Pavement video image, pavement distress and ride data
- 5000 miles of pavement video and distress data completed by NDDOT and UGPTI
  - Completed August 2015
Primary Steps - Data Collection (Cont.)

- Pavement/subgrade strength and depth surveys
  - Falling weight deflectometer and ground penetrating radar
  - Sampling on all county paved segments > 2 miles in length
  - Completed Oct. 28, 2015
Primary Steps - Data Collection (Cont.)

• National Bridge Inventory System data (NBIS)
  ▪ Data to be imported from NBIS in late November

• Roadway jurisdictional data – who manages the roads
  – Will be processed in spring through Local Roads Asset Inventory System
Primary Steps - Data Collection (Cont.)

• Unpaved (gravel roads survey)
  – Survey released to counties August 14, 2015
  – Survey released to townships Sept. 1, 2015
    • Supplemental letter to county comms/auditors
  – Instructional webinar hosted and recorded
    • Sept. 23, 2015
  – Status as of Nov. 1, 2015
    • 39 counties submitted
    • 300+ townships submitted
Primary Steps – Data Analysis

Traffic analysis and modeling
- Underway
- Projected completion – March 2016

Pavement analysis and modeling
- Data processing completion – Sept. 30, 2015
- Pavement analysis completion – April 2016

Pavement/subgrade strength and depth data
- Data analysis completion – Dec. 31, 2015
Primary Steps – Data Analysis (Cont.)

National Bridge Inventory & Analysis
- Data analysis completion – April 2016

Roadway jurisdictional data – who manages the roads
- Review by counties and LTAP
  - Data available for review – March 1, 2016
  - Projected review completion by May 15, 2016
Primary Steps - Cost Forecasting & Report Generation

Draft report – Projected completion: June 15, 2016

Solicitation of comments – Projected completion: Sept. 1, 2016

NDLTAP will coordinate outreach

Questions about Infrastructure Needs Study?
Local Roads Asset Inventory Toolkit

- 2015 Legislature Appropriated Funds for an Asset Management Initiative.
  - Intended to focus on providing tools for local governments to preserve and maintain roads and bridges.
Local Roads Asset Inventory Toolkit

• Initial Steps:
  – Establish advisory group of county representatives.
    • 10 counties identified
    • Partner with NDAoC
  – Focus on building data inventory important to county road managers
    • Build so it links to on-line mapping built for past study
Local Roads Asset Inventory Toolkit

• Initial items to develop:
  – Web/map-based input system
  – Paved roadways data set
  – Gravel roads data set
  – Bridges
    • Explore adding minor structures (less than 20 ft.)
  – Other critical infrastructure items
  – Some items are essential to County-Township Needs Study
Steering Team

- Sharon Lipsh - Walsh
- Dana Larsen - Ward
- Ken Miller - Mercer
- Shirley Murray – Sheridan County
- Todd Miller - Stark
- Tom Soucy - Cass
- Jana Heberlie – Mountrail
- Kevin Fieldsend - Ramsey
- Dan Schriock - Burleigh
- Tyler Michel - Stutsman
Local Roads Asset Inventory Toolkit

• Progress
  – August 12
    • Held 10-county-ND AoC kickoff webinar
• Site visits with all 10 steering committee counties
  • Provided initial training and user input
• Updated program with input from steering committee counties
• Final program rollout to all counties planned for Dec. 1, 2015