Grading and Technology Forum

Sue Mulvihill | Deputy Commissioner, Chief Engineer

Dec. 3, 2019
Major Projects

I-35W Downtown to Crosstown

Estimated project cost: $239 million
Twin Ports Interchange

Estimated Project Cost: $250 - $275 million
Major Projects

Highway 14 expansion

Estimated Project Cost: $138 million
### 2020-2023 STIP Investments – $ in Millions
(Does not include Corridors of Commerce Program)

<table>
<thead>
<tr>
<th>Investment Category</th>
<th>FY 2020</th>
<th>FY 2021</th>
<th>FY 2022</th>
<th>FY 2023</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pavement</td>
<td>525</td>
<td>417</td>
<td>493</td>
<td>529</td>
</tr>
<tr>
<td>Bridge</td>
<td>190</td>
<td>79</td>
<td>39</td>
<td>105</td>
</tr>
<tr>
<td>Safety</td>
<td>42</td>
<td>60</td>
<td>38</td>
<td>41</td>
</tr>
<tr>
<td>Major Construction</td>
<td>178</td>
<td>335</td>
<td>109</td>
<td>80</td>
</tr>
<tr>
<td>Other*</td>
<td>292</td>
<td>206</td>
<td>197</td>
<td>176</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1,227</strong></td>
<td><strong>1,097</strong></td>
<td><strong>876</strong></td>
<td><strong>931</strong></td>
</tr>
</tbody>
</table>

**Work Zone Crash Trends**

<table>
<thead>
<tr>
<th>Work Zone Crashes Minnesota</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fatalities</td>
<td>12</td>
<td>13</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>Serious crashes</td>
<td>25</td>
<td>42</td>
<td>45</td>
<td>43</td>
</tr>
<tr>
<td>Totals (includes property damage crashes)</td>
<td>2,153</td>
<td>2,952</td>
<td>2,565</td>
<td>2,231</td>
</tr>
</tbody>
</table>
Work Zone Safety

• Four-hour flagger law
  • Report drivers to law enforcement within 4 hours of incident
  • 2019 legislation
Towards Zero Deaths

Minnesota Roadway Fatalities
Source: MnDOT 9/20/2019

3,355 LIVES SAVED

Years: 1995 to 2030
Deaths: 597 to 381
Communications - Advanced warnings
MnDOT’s Regional Transportation Management Center (RTMC)

- Report all freeway lane or ramp closures
  - Metro District: 651-234-7093
  - Other Districts: 651-234-7089

RTMC staff will deploy messages on permanent CMS and ensure information on 511 is accurate.
Communications - Advanced warnings

- **Intelligent Work Zones**
  - Temporary Sensors
  - Travel Times
  - Queue Warning

- **Why We Do It**
  - Provide information to motorists.
  - Help travel decisions
Coordination with other agencies and along parallel routes

2020 MnDOT construction projects in Metro

Important benefits:

- Minimize traffic impacts
- Maintenance work
- Improve expectations for motorists
Traffic Management
Social Media

• **Tell our story**—explain what we do and who we are

• **Educate**—explain transportation topics in plain language

• **Engage**—answer questions and concerns

• **Emergency response**—closures, blizzards, flooding, etc.
MnDOT Automated Maintenance Truck (AMT) Pilot Project
Innovations

- Construction equipment
- Methods
- Materials
Partnering

• Trust and open communication
• Identify common goals
• Find solutions to problems
• Participate in pre-activity and weekly meetings
• Don’t play blame game
• Create dispute ladder to resolve issues
• Use professional facilitator when necessary
Staffing

• Challenges ahead
  • Technology changes
    • Training needed
  • Retirements
  • Competition for qualified workers
Working Together
Your help matters!
Questions?

Sue Mulvihill

Sue.Mulvihill@state.mn.us