Establishing Mobility Investment Priorities Under TxDOT Rider 42: Status Briefing to the Texas House of Representatives Committee on Transportation

Bill Stockton, Executive Associate Director
Texas Transportation Institute
The Texas A&M University System

March 22, 2012
Background on Rider 42

• Formal legislative action to address in part challenges outlined by Texas 2030 Committee in 2011 report

• Focus - relief of the State’s top 50 congested corridors

• $300 million set aside for the most congested roadway segments

• Projects to include:
  – Right-of-way purchases
  – Design contracts
  – Planning studies and project feasibility analyses
TTI Role under Rider 42

Facilitate and coordinate studies in four most congested metro areas to:

• Identify most effective congestion-relieving projects
• Estimate economic, user and safety benefits
• Consider all feasible funding options
• Apply best traffic and demand management principles
  – Rapid clearance of crashes that block roadways
  – Removal of bottlenecks
  – Maximum use of alternative travel options: i.e. staggered work hours, telecommuting
• Ensure open and transparent public participation
• Make recommendations to TxDOT at major decision points
Austin Cooperation

• TxDOT-Austin District
• Capital Area Metropolitan Planning Organization
• Capital Metro
• Central Texas Regional Mobility Authority
• City of Austin
• Greater Austin Chamber of Commerce
• Downtown Austin Alliance
• Downtown Transportation Management Assn
• Texas Transportation Institute
Austin Early Recommendations—February 2012

Spent: $18.5 M   Remaining: $12.78 M

#4: Expand IH 35 study to include express lanes and travel options ($1.2 M)

#39: Design Loop 1 South tolled express lanes ($16.5 M)

#39: Loop 1 North express lanes preliminary engineering

All Congested Corridors
- Study integrated system operations ($0.8 M)

#4: IH 35 traffic management and travel options study

#xx: Congested Section Addressed by Project
   • Proposition 12 Funds
   • Study Funded by Others
## Austin Recommendations

<table>
<thead>
<tr>
<th>Corridor/Project</th>
<th>Recommended Early Action</th>
<th>Funding Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loop 1 South Managed Lanes</td>
<td>Tolled express lanes engineering (environmental clearance, final design and preparation for letting)</td>
<td>$16.5M</td>
</tr>
<tr>
<td>IH 35 Study Extension</td>
<td>Expand study limits and scope: express lanes, operations, and travel options</td>
<td>$1.2M</td>
</tr>
<tr>
<td>All Congested Corridors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Integrated Traffic Management</td>
<td>Integrated system management and operation engineering study including comprehensive incident management</td>
<td>$0.8M</td>
</tr>
</tbody>
</table>

**Total Request, February 2012**

$18.5M

*Remaining Austin area Rider 42 allocation:*

$12.78M
Dallas/Fort Worth Cooperation

- TxDOT-Dallas and Ft. Worth Districts
- North Central Texas Council of Governments
- North Texas Tollway Authority
- City of Dallas
- City of Fort Worth
- Dallas Area Rapid Transit
- Fort Worth Transportation Authority
- Denton County Transportation Authority
- City of North Richland Hills
- City of Richardson
- City of Haltom City
- Texas Transportation Institute
Spent: $118.75 M     Remaining: $0

#15: Study HOV operation and access improvements; bottleneck removal

#9: Begin feasibility and design study of operations components

#12: Consider purchase ROW and engineering

#16: Consider environmental study

#12, #17 and #29: Horseshoe Project (contribute to ROW and engineering) ($100.75 M)

#12, #16, #17 and #29: First phase of Trinity Parkway (ROW and engineering) ($18 M)

#xx: Congested Section Addressed by Project

: Proposition 12 Funds

: Study Funded by Others
#12, #17 and #29: Horseshoe Project (contribute to ROW and engineering) ($100.75 M)

#12, #16, #17 and #29: First phase of Trinity Parkway (ROW and engineering) ($18 M)

Spent: $118.75 M   Remaining: $0
Dallas/Fort Worth Early Recommendations—February 2012

Spent: $118.75 M  Remaining: $0

#8, #21: Monitor North Tarrant Express Master Development Agreement

#xx: Congested Section Addressed by Project

- Proposition 12 Funds
- Study Funded by Others
## Dallas/Fort Worth Recommendations

<table>
<thead>
<tr>
<th>Corridor/Project</th>
<th>Recommended Early Action</th>
<th>Funding Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>I-30 and I-35E Horseshoe</td>
<td>Engineering, purchase ROW and adjust utilities</td>
<td>$100.75M</td>
</tr>
<tr>
<td>Trinity Parkway Phase 1</td>
<td>Engineering, purchase ROW and adjust utilities</td>
<td>$18M</td>
</tr>
<tr>
<td><strong>Total Request, February 2012</strong></td>
<td></td>
<td><strong>$118.75M</strong></td>
</tr>
</tbody>
</table>
Dallas/Fort Worth Recommendations

<table>
<thead>
<tr>
<th>Corridor/Project</th>
<th>Recommended Early Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>I-35W (I-30 to SH 183)</td>
<td>Monitor North Tarrant Express Master Development Agreement</td>
</tr>
<tr>
<td>US 75 (LBJ to Woodall Rodgers)</td>
<td>Feasibility study, design and construction of operations improvements</td>
</tr>
<tr>
<td>US 75 (LBJ to Pres. George Bush Turnpike)</td>
<td>Project planning study for HOV lane operations, access improvements and bottleneck removal</td>
</tr>
<tr>
<td>I-35E (I-30 to SH 183)</td>
<td>Purchase ROW and engineering for entire corridor (with community consensus)</td>
</tr>
<tr>
<td>I-35E (US 67 to Jefferson Viaduct)</td>
<td>Engineering (with community consensus)</td>
</tr>
<tr>
<td>I-30 (I-35E to Loop 12)</td>
<td>Environmental study (with community consensus)</td>
</tr>
<tr>
<td>All Congested Corridors</td>
<td>Design and strategy for truck lane restrictions</td>
</tr>
</tbody>
</table>
Houston Cooperation

- TxDOT Houston District
- Houston-Galveston Area Council
- City of Houston
- Harris County
- Houston METRO
- Houston TranStar
- Harris County Toll Road Authority
- Texas Transportation Institute
Houston Early Recommendations—February 2012

Spent: $86.35 M  Remaining: $29.874 M

#1, #7: Supplement I-45 EIS; add operations and parallel route study ($2.0 M)

#11, #25: Purchase ROW to widen freeway & interchange ($78 M)

#1, #7: Monitor Hardy Toll Road extension

All Congested Corridors
- Active traffic management ($0.85 M)
- Travel options ($0.5 M)
- Monitor METRO’s HOV to HOT conversion

#xx: Congested Section Addressed by Project
- : Proposition 12 Funds
- : Study Funded by Others
# Houston Recommendations

<table>
<thead>
<tr>
<th>Corridor</th>
<th>Recommended Early Action</th>
<th>Funding Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>US 290</td>
<td>Purchase ROW and adjust utilities to reconstruct the mainlanes and Beltway 8 interchange</td>
<td>$78M</td>
</tr>
<tr>
<td>I-45, US 59, I-10 and SH 288 – Downtown Redesign Study</td>
<td>Feasibility study for long-term solutions to the downtown area based on origin-destination travel patterns</td>
<td>$5.0M</td>
</tr>
<tr>
<td>I-45</td>
<td>Feasibility study and design of mobility improvements along major streets parallel to I-45 North</td>
<td>$2.0M</td>
</tr>
<tr>
<td>All Congested Corridors</td>
<td>Engineering study to identify locations and funding for operational treatments, including comprehensive incident management</td>
<td>$0.85M</td>
</tr>
<tr>
<td>Travel Options</td>
<td>Engineering study for implementing travel option strategies</td>
<td>$0.5M</td>
</tr>
</tbody>
</table>

**Total Request, February 2012**  
$86.35M  

*Remaining Houston area Rider 42 allocation:*  
$29.874M
## Houston Recommendations

<table>
<thead>
<tr>
<th>Corridor</th>
<th>Recommended Early Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>I-45 North Freeway</td>
<td>Monitor Hardy Tollroad extension status. Consider action if HCTRA defers.</td>
</tr>
<tr>
<td>I-45 Gulf Freeway</td>
<td>Study major streets as alternatives based on downtown redesign study</td>
</tr>
<tr>
<td>US 59 (I-610 W to SH 288)</td>
<td>Study major streets as alternatives based on downtown redesign study</td>
</tr>
<tr>
<td>All Congested Corridors</td>
<td>Monitor METRO’s conversion of HOV lanes to high occupancy toll lanes</td>
</tr>
</tbody>
</table>
San Antonio Cooperation

• TxDOT-San Antonio District
• San Antonio-Bexar County Metropolitan Planning Organization
• Alamo Area Council of Governments
• City of San Antonio
• Alamo Regional Mobility Authority
• Bexar County
• VIA Metropolitan Transit
• Texas Transportation Institute
San Antonio Early Recommendations—February 2012

Spent: $24.6 M   Remaining: $9.14 M

All Congested Corridors
- Traffic management and traveler information ($1.0 M)
- Travel options ($0.3 M)
- Parking management ($0.3 M)

#23: Monitor EIS; widen to freeway/tollway with managed lanes

#38: Design northbound direct connectors ($6 M)

#48, 49: Study expanded capacity and operations ($2.5 M)

#49: Conduct environmental study ($13 M)

#50: Monitor before/after study

#48, 49: Study expanded capacity and operations ($1.0 M)

#49: Study Funded by Others

#xx: Congested Section Addressed by Project

: Proposition 12 Funds
- : Study Funded by Others
## San Antonio Recommendations

<table>
<thead>
<tr>
<th>Corridor/Project</th>
<th>Recommended Early Action</th>
<th>Funding Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>I-35 Northeast</td>
<td>Conduct EIS or EA as determined by the PEL study</td>
<td>$13M</td>
</tr>
<tr>
<td>US 281/Loop 1604 Interchange</td>
<td>Design four northern Direct Connector ramps</td>
<td>$6.0M</td>
</tr>
<tr>
<td>I-35 Central</td>
<td>PEL study to define the needs and evaluate alternative improvements</td>
<td>$1.0M</td>
</tr>
<tr>
<td>South Alternative Routes to I-35</td>
<td>PEL study to define the needs and evaluate alternative improvements</td>
<td>$2.5M</td>
</tr>
<tr>
<td>I-410 Southwest</td>
<td>PEL study to define the needs and evaluate alternatives to I-35</td>
<td>$0.5M</td>
</tr>
<tr>
<td>All Congested Corridors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ITS/Transportation Management</td>
<td>Project planning and feasibility study to facilitate traffic and incident management</td>
<td>$1.0M</td>
</tr>
<tr>
<td></td>
<td>through supporting infrastructure, policies, and practices</td>
<td></td>
</tr>
<tr>
<td>Parking Management</td>
<td>Project planning and feasibility study to facilitate parking management</td>
<td>$0.3M</td>
</tr>
<tr>
<td>Travel Option Strategies</td>
<td>Project planning and feasibility study to identify the possible travel option champions</td>
<td>$0.3M</td>
</tr>
</tbody>
</table>

**Total Request, February 2012**

$24.6M

*Remaining San Antonio area Rider 42 allocation:*

$9.14M
## San Antonio Recommendations

<table>
<thead>
<tr>
<th>Corridor</th>
<th>Recommended Early Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>SL 1604</td>
<td>Monitor superstreet improvement and signal timing; evaluate additional needs</td>
</tr>
<tr>
<td>US 281</td>
<td>Monitor superstreet improvement and signal timing; evaluate additional needs</td>
</tr>
<tr>
<td>Culebra Road</td>
<td>Monitor before/after study; determine next steps</td>
</tr>
</tbody>
</table>
For More Information...

**Bill Stockton**  
Executive Associate Director  
Texas Transportation Institute  
(979) 845-9947  
stockton@tamu.edu

**Tim Lomax**  
Research Engineer  
Texas Transportation Institute  
(979) 845-9960  
t-lomax@tamu.edu

**Austin**  
Ginger Goodin  
g-goodin@tamu.edu

**Dallas/Ft Worth**  
Chris Poe  
cpoe@tamu.edu

**Houston**  
Tony Voigt  
t-voigt@tamu.edu

**San Antonio**  
Cesar Quiroga  
c-quiroga@tamu.edu