Infrastructure Investment and Jobs Act Implementation: Contractor Overview

November 2021

Housekeeping Notes:
- This meeting will be recorded.
- Attendee microphones will be disabled during the presentation and will be reactivated for the Q&A portion.
- During the Q&A, please raise your hand. When called on, you will need to unmute your microphone to speak.
- When asking a question, please state your name and the name of your company. Once you have asked your question, please mute your microphone and lower your hand.
- Questions can also be submitted through the meeting chat and will be read by the moderator.
- For anyone calling in on the audio only phone line, you can raise and lower your hand by pressing *5 and you can mute and unmute your line by pressing *6.
Today’s Agenda

• Opening Remarks – Commissioner Giulietti
• Overview of Anticipated Federal Funding
• What Must be Delivered
• Major Projects in the Base Capital Program
• CTDOT's Plan for Expanded Infrastructure Program
• Time for CT
• Implementation Considerations
• Questions & Answers
## Overview of Anticipated Federal Formula Funding

### FHWA Yearly Total

<table>
<thead>
<tr>
<th>Year</th>
<th>Yearly Total</th>
<th>Program Size Relative to 2021 Program</th>
<th>Increase over 2021 Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021</td>
<td>$549,841,415</td>
<td>143%</td>
<td>$238,402,447</td>
</tr>
<tr>
<td>2022</td>
<td>$788,243,862</td>
<td>146%</td>
<td>$251,711,300</td>
</tr>
<tr>
<td>2023</td>
<td>$801,552,715</td>
<td>148%</td>
<td>$265,286,331</td>
</tr>
<tr>
<td>2024</td>
<td>$815,127,746</td>
<td>151%</td>
<td>$279,132,862</td>
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<tr>
<td>2025</td>
<td>$828,974,277</td>
<td>153%</td>
<td>$293,256,322</td>
</tr>
<tr>
<td>2026</td>
<td>$843,097,737</td>
<td>153%</td>
<td>$293,256,322</td>
</tr>
</tbody>
</table>

### FTA Yearly Total

<table>
<thead>
<tr>
<th>Year</th>
<th>Yearly Total</th>
<th>Program Size Relative to 2021 Program</th>
<th>Increase over 2021 Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021</td>
<td>$200,684,201</td>
<td>143%</td>
<td>$48,902,540</td>
</tr>
<tr>
<td>2022</td>
<td>$249,586,741</td>
<td>146%</td>
<td>$53,990,542</td>
</tr>
<tr>
<td>2023</td>
<td>$254,675,083</td>
<td>148%</td>
<td>$60,380,042</td>
</tr>
<tr>
<td>2024</td>
<td>$261,505,210</td>
<td>151%</td>
<td>$66,920,128</td>
</tr>
<tr>
<td>2025</td>
<td>$267,029,567</td>
<td>153%</td>
<td>$73,525,352</td>
</tr>
<tr>
<td>2026</td>
<td>$273,990,153</td>
<td>153%</td>
<td>$73,525,352</td>
</tr>
</tbody>
</table>

### FHWA + FTA Formula Funding Grand Total by Year

<table>
<thead>
<tr>
<th>Year</th>
<th>Grand Total by Year</th>
<th>Program Size Relative to 2021 Program</th>
<th>Increase over 2021 Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021</td>
<td>$750,525,616</td>
<td>143%</td>
<td>$287,304,987</td>
</tr>
<tr>
<td>2022</td>
<td>$1,037,830,603</td>
<td>138%</td>
<td>$305,702,182</td>
</tr>
<tr>
<td>2023</td>
<td>$1,056,227,798</td>
<td>141%</td>
<td>$326,107,340</td>
</tr>
<tr>
<td>2024</td>
<td>$1,076,632,956</td>
<td>143%</td>
<td>$345,478,228</td>
</tr>
<tr>
<td>2025</td>
<td>$1,096,003,844</td>
<td>146%</td>
<td>$366,562,274</td>
</tr>
<tr>
<td>2026</td>
<td>$1,117,087,890</td>
<td>149%</td>
<td>$366,562,274</td>
</tr>
</tbody>
</table>

Note: These values do not include matching State funds.
## Overview of Anticipated Federal Grant Funding

### NEC COMPETITIVE GRANTS
- **$30 B**
  - Make *Time for CT* and Northeast Corridor's C35 a reality
  - Northeast Corridor grants to procure & address deferred maintenance backlog on Amtrak's Northeast Corridor ($6 B)
  - Intercity Passenger Rail Fed-State Partnership grants to repair/replace/rehabilitate qualified railroad assets to improve state of good & performance ($24 B)

### NATIONAL COMPETITIVE GRANTS

<table>
<thead>
<tr>
<th>Funding Category</th>
<th>Budget</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highways Roads</td>
<td>$6 B</td>
<td><em>NEW</em> Safe Streets for All grants for local governments to reduce crashes and fatalities in communities, especially for cyclists and pedestrians ($5 B)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>NEW</em> SMART grants for innovative transportation technologies (like drones) or use of data to improve transportation efficiency &amp; safety ($500 M)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>NEW</em> Reconnecting Communities grants for planning, design, demolition, and reconstruction of street grids/parks divided by transportation infrastructure ($500 M)</td>
</tr>
<tr>
<td>Bridge</td>
<td>$9.24 B</td>
<td><em>NEW</em> Bridge grants to repair, replace and rehab bridges (grants to supplement CT’s $561 M in formula funding)</td>
</tr>
<tr>
<td>Major Projects</td>
<td>$15.7 B</td>
<td>RAISE grants for projects of local or regional significance ($7.5 B)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>NEW</em> Megaproject grants for multi-modal, multi-jurisdictional projects of national or regional significance ($5 B)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>INFRA grants for highway/rail projects of regional &amp; national economic significance ($3.2 B)</td>
</tr>
<tr>
<td>Rail</td>
<td>$8 B</td>
<td>Capital Investment grants for new and expanded high-capacity rail and bus service</td>
</tr>
<tr>
<td>Rail</td>
<td>$9.75 B</td>
<td>CRISI Grants to improve safety, efficiency, and reliability of intercity passenger rail ($5 B) (ex: New Haven Line/Time for CT likely a good candidate for this program)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Railroad Crossing Elimination grants to eliminate railway-highway crossing hazards ($3 B)</td>
</tr>
<tr>
<td>Rail</td>
<td>$25 B</td>
<td>ADA Upgrades to Rail Transit grants to eliminate access barriers ($1.75 B)</td>
</tr>
<tr>
<td>Bus</td>
<td>$5.25 B</td>
<td>Low-No Emissions Bus grants for low and no emissions buses and the facilities that support them (grants to supplement formula funding for the conversion of CT bus transit fleet)</td>
</tr>
<tr>
<td>Culverts</td>
<td>$1 B</td>
<td><em>NEW</em> Culverts grants to remove/replace/restore culverts &amp; address the flow of water through roads, bridges, railroads, tracks and trails (related to flooding, many of CT’s culverts are +50 years old &amp; at the end of their service life)</td>
</tr>
<tr>
<td></td>
<td>$100 B</td>
<td>Competitive transportation grants over the next 5 years for CTDOT to pursue (above outlines a targeted list of competitive grants not all grant programs in bill)</td>
</tr>
</tbody>
</table>
Anticipated Funding beyond our current program

• An additional $400,000,000 **PER YEAR** for projects
  Federal Formula Funds and matching State Funds Starting in FFY 2022

• Potentially another $1,000,000,000 **OVER 5 YEARS**
  • Federal Competitive Grants for transportation projects
  • Northeast Corridor Competitive Grants for rail projects and programs
Categories and Potential New Funding

- Bridge Projects and Programs: $1,100
- Highway Projects and Programs: $750
- Major Highway Program Development: $540
- Facilities/Clean Energy Projects & Programs: $140
- Traffic Control/Safety Projects & Programs: $245
- Transit Projects and Programs: $185
- Rail Projects and Programs: $185

Note: Values shown in Millions
Major Projects in the Base Capital Program

**Annual Programs**
- Capital Resurfacing Program, Statewide
- General Asset SOGR Programmatic Improvements, Statewide
- LOTCIP & Local Programs are maintained

**FFY 2021**
- Route 8 Resurfacing & Safety Improvements, Derby
- Route 2 Resurfacing & Safety Improvements, East Hartford
- I-95 Resurfacing & Safety Improvements, Norwalk

**FFY 2022**
- I-95 Goldstar Bridge, New London
- Swing Bridge Reconstruction, Haddam/East Haddam
- I-91/I-691/Route 15 Interchange, Meriden
- Route 15 Resurfacing, New Canaan/Norwalk
- I-84 Interchange 17 Improvements, Middlebury
- I-95 at Route 161 Interchange Improvements, East Lyme

**FFY 2023**
- I-95 Resurfacing & Safety Improvements, Greenwich
- Route 9 Traffic Signal Removal, Middletown
- I-95 Bridge Widening & Operational Improvements, West Haven

Note: Schedules as shown in Capital Plan, subject to revision over the course of project development
Major Projects in the Base Capital Program

Service Improvements
• CTtransit Move New Haven Infrastructure Improvements Phase 1
• New Haven Line Speed Improvements, Phase 1
• Traffic Signal Technology Improvements, Statewide

Equipment Purchases
• New coaches for rail fleet
• Bus Replacements (diesel & electric)
• Final M8 Deliveries

Station & Facility Improvements
• Stamford Parking Garage
• Hartford Line – Windsor Locks Station
• New Haven Line – Darien Station Improvements
• Bus Shelters, Statewide
• New Haven Line Signal Improvements
• New Haven Union Station Campus Improvements
# Projects Accelerated into FFY 2022 Advertising

<table>
<thead>
<tr>
<th>PROJECT NO.</th>
<th>ROUTE</th>
<th>TOWN</th>
<th>DESCRIPTION</th>
<th>APPROXIMATE COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>0156-0181</td>
<td>I-95</td>
<td>WEST HAVEN</td>
<td>NHS - Replace Br 00162 over MNRR &amp; Widen to Extend Deceleration Lane</td>
<td>$85 M</td>
</tr>
<tr>
<td>0063-0726</td>
<td>I-91 SB</td>
<td>HARTFORD</td>
<td>NHS - Rehab Br 01469B o/ CSRR, SR 598 &amp; TR803</td>
<td>$59 M</td>
</tr>
<tr>
<td>0082-0316</td>
<td>RT 17/RT 9</td>
<td>MIDDLETOWN</td>
<td>Reconfigure Rt 17 On-ramp to Rt 9 NB</td>
<td>$42.5 M</td>
</tr>
<tr>
<td>0135-0346</td>
<td>I-95</td>
<td>STAMFORD</td>
<td>RBC Improvements between Exits 6-7 &amp; Auxiliary Lane SB</td>
<td>$38 M</td>
</tr>
<tr>
<td>0170-3551</td>
<td>Various</td>
<td>STATEWIDE</td>
<td>NHS NBI Bridge Pin &amp; Hanger Assemblies</td>
<td>$9 M</td>
</tr>
<tr>
<td>0170-3557</td>
<td>Various</td>
<td>STATEWIDE</td>
<td>Non-NHS NBI Br Pin &amp; Hanger Assemblies</td>
<td>$8.5 M</td>
</tr>
<tr>
<td>0172-0501</td>
<td>Various</td>
<td>DISTRICT 2</td>
<td>Install Traffic Control Signals in Various Locations</td>
<td>$7 M</td>
</tr>
<tr>
<td>0171-0459</td>
<td>Various</td>
<td>DISTRICT 1</td>
<td>Replace Traffic Control Signals at Various Locations</td>
<td>$6.5 M</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Total:</strong></td>
<td><strong>$255.5 M</strong></td>
</tr>
</tbody>
</table>
Additional Planned Categories of Projects to Deliver

**Bridge Projects & Programs:**
- Major Bridge Program – 6 Projects in 2025 & 6 Projects in 2026 @ $90-$100M ea. Year
- Expanded Bridge Preservation Program - $65-$155M/Yr.
- Aesthetic Bridge Lighting Program – One Bridge ea. Year at $4m/Yr.
- Retaining Wall Replacement Program – $2-$8M/Yr.

**Highway Projects & Programs:**
- Interchange Improv. I-95 West of New Haven - $60-$65M/Yr. for 2023 & 25
- Statewide Drainage Improvement Program - $14M/Yr. 2023, 24, 25, 26
- Noise Wall Replacements - $4-$9M/Yr.
- Truck Parking Areas Program - $10M/Yr. for 2024, 25, 26
- Roundabout Program - $18M/Yr. in 2024, 25, 26
- Sidewalk & Trail Gap Closure Programs - $6 -$12M/Yr.
Additional Planned Categories of Projects to Deliver

**Facilities and Clean Energy Projects & Programs:**
- Light Fleet Charging Stations - $10M/Yr.
- Advance Public DC Fast Charging Program - $3M/Yr.
- Solar Panel Program - $10M/Yr.

**Rail and Transit Projects & Programs:**
- High Level Platform Replacement Program - $31-$46M/Yr.
- Fleet Electrification Program - $31-$38M in 2022, 2023, 2024
- New Bus Rapid Transit Program - $41-$46M in 2025 & 2026

**Traffic Control and Safety Projects & Programs:**
- Upgrade of Existing Computerized Traffic Signal System - $12-$25M/Yr.
- Installation of Advanced Traffic Controllers and Communications - $5M/Yr.
- Pedestrian Signal Upgrades - $3M/Yr.
- Upgrade Overhead Signs & Sign Supports - $15M/Yr.
- Upgrade Signs on Secondary State Roads - $4M/Yr.
Additional Planned Categories of Projects to Deliver

**Major Highway Breakout Projects from Long Term Program Studies:**

- I-84 Improvements, Exits 1-8
- Greater Hartford Mobility Study
- I-84 and Route 8 Mixmaster
- I-95 Improvements, New Haven to Rhode Island
- I-95 Improvements, Exits 7-9 & Bridge 32
- I-95 Improvements, Exits 19-27A
# Time for CT

**Estimated total $10 billion over the next 12 - 14 years**

<table>
<thead>
<tr>
<th>Funded</th>
<th>Unfunded</th>
</tr>
</thead>
</table>
| • Stamford Track 7  
  • Waterbury Line Siding  
  • New Haven Line Track to 90-100 mph (design)  
  • Waterbury Line Signals  
  • Walk Bridge  
  • New Haven Yard & Shop Expansion (design) | • Penn Station Access & Gateway Program  
  • New Haven Line Track 90-100 mph  
  • New Haven Line 4th Track @ Milford  
  • Track curve speed improvements  
  • Fix drainage problems |
| **$2 billion** | **$7-8 billion (estimated)** |

**New Haven Line**

- Stamford Track 7
- Waterbury Line Sidings
- New Haven Line Track to 90-100 mph (design)
- Waterbury Line Signals
- Walk Bridge
- New Haven Yard & Shop Expansion (design)

**Other Rail Lines**

- Shore Line East Catenary Upgrades
- Shore Line East Stamford service with M8s
- Amtrak Connecticut River Bridge
- Hartford Line 2nd Track
- Hartford RR Viaduct

- Replace open deck bridges
- Cos Cob Bridge
- Saugatuck River Bridge (fixed span)
- Devon Bridge
- New Haven Line (Greenwich to New Haven)
Implementation Considerations

Phased approach to implementation
• Existing Formula Funds Programs
• New Formula Funds Programs
• Grant Programs
Questions & Answers