PARKING, TRAFFIC AND SAFETY COMMITTEE

MARCH 3, 2016
Topics for Discussion

• Project Information & Status
• Vehicle Description
• Construction Access Routes
• Estimated Frequency
• Downtown Locations
• Peirce Island Temporary Staging Areas
• Questions & Answers
Project Information & Status

- Major upgrade of Peirce Island WWTF mandated by EPA
- 100% Design Complete
- Construction between July 2016 and September 2020
Anticipated Construction Vehicles

- Pickup Trucks
- Delivery Trucks
- Concrete Trucks
- Dump Trucks
- Tractor Trailers
- “Low-Boy” Trailers
- Cranes
- Others
Construction Vehicles

- “Design” Vehicles
  - WB-50
    - 42.5 ft. Trailer
    - Short Cab

- WB-67
  - 53 ft. Trailer
  - Extended Cab
Construction Access Routes
## Estimated Construction Vehicle Frequency

<table>
<thead>
<tr>
<th>Total One-Way Trips Over 51 Months</th>
<th>Average Daily One-Way Trips Per Month</th>
<th>Peak Daily One-Way Trips Per Month</th>
<th>Peak One-Way Trip Frequency (min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20,000 – 25,000</td>
<td>5 - 91</td>
<td>8 - 137</td>
<td>3 - 53</td>
</tr>
</tbody>
</table>
Traffic Counts at Court St. and Marcy St.

- **Design Hour Construction Analysis**
  - Normal Traffic Growth
  - Assumes 15 Construction Vehicles Per Hour (One Every 4 Minutes)

- **Performed Queue Analysis**
  - Used 100 Pedestrians Crossing Each Leg Per Hour
  - Maximum Queue: 145 Feet on the Marcy St. Northbound Approach
Downtown Locations

- Middle St. & State St. (off-screen)
- State St.
- Marcy St.
- Court St.
- Mechanic St.
- Pleasant St.
- Hancock St.
Downtown Locations – Middle St. & State St.

- WB-67

Add bollards to protect traffic controller
Downtown Locations – Middle St. & State St.

- WB-50

Add bollards to protect traffic controller
Downtown Locations – State St., Court St. & Marcy St.

- WB-67

PEIRCE ISLAND WWTF UPGRADE PROJECT
Downtown Locations – State St., Court St. & Marcy St.

- WB-50
Downtown Locations – State St., Court St. & Marcy St.
Downtown Locations – Marcy St.
Downtown Locations– Marcy St. & Mechanic St.

- Incoming WB-67

INTERSECTION TO BE TEMPORARILY MODIFIED TO ACCOMMODATE TRUCK TRAFFIC
Downtown Locations – Marcy St. & Mechanic St.

- Incoming WB-50

INTERSECTION TO BE TEMPORARILY MODIFIED TO ACCOMMODATE TRUCK TRAFFIC
Downtown Locations– Marcy St. & Mechanic St.

- Outgoing WB-50
Downtown Locations – Marcy St. & Mechanic St.
Downtown Locations – Strawberry Banke

- Outgoing WB-67
Downtown Locations – Hancock St. & Pleasant St.

- Outgoing WB-67
Downtown Locations – Hancock St. & Pleasant St.
Downtown Locations – Pleasant St. & Court St.

- Outgoing WB-67
Downtown Locations – Pleasant St. & Court St.
Downtown Locations – Peirce Island Bridge
Peirce Island Temporary Staging Areas
Questions and Answers