TRAFFIC AND CONSTRUCTION MITIGATION FOR PEIRCE ISLAND WASTEWATER TREATMENT FACILITY UPGRADE

RECREATION BOARD AND PEIRCE ISLAND COMMITTEE JOINT MEETING
MAY 26, 2016
Topics for Discussion

1. Project Information & Status
2. Peirce Island Temporary Staging Areas & Contractor Restrictions
3. Independent Safety Review
4. Parking Mitigation
5. Archaeological Investigations
6. Off Leash Dog Area Plans
7. Site Changes & Improvements
8. Mitigation Measures
9. Peirce Island Bridge Repairs
10. Communication Plan
Major Upgrade of Peirce Island WWTF Mandated by EPA Consent Decree

Design Complete

Out to Bid with Barge Bid Alternates

Construction Between Sept 2016 and Sept 2020
Peirce Island Temporary Staging Areas

Contractor Staging Area after September 1, 2016

Contractor Staging Area after Sept 1, 2016

Contractor Staging Area after Sept 1, 2016

Contractor Staging Area after Sept 1, 2016

Jersey Barriers

Closed to Traffic after September 1, 2016

Plastic Construction Fencing

Protected Areas

Contractor Staging Area or City Snow Storage after Sept 1, 2016

Contractor Staging Area after Sept 1, 2016
Restrictions on Contractor’s Work

- Base Hours of Operation are 7AM to 6 PM
- 2 Week Notice Required for Work Past 3:30 PM, Monday through Friday
- Work Outside of Base Hours with City Approval
- No Work on City Holidays
- Friday Restrictions Prior to the Tall Ships and Fairy House Tours
- Large Vehicle Deliveries Only Allowed During Nights/Early Mornings
  - Incoming to site Midnight to 8 AM
  - Outgoing from site Midnight to 9AM Sept-May, 8:30AM June-Aug
Peirce Island Pool Access

Install Walkway to Original Pool Entrance

Jersey Barriers with 5’ High Chain Link Fence On Top

Safety Officer/Flagger

Contractor Staging Area after September 1, 2016

Closed to Traffic after September 1, 2016

Pool Staging Area Restrictions

- Provide 8-ft High Lined Chain Link Fence with Screening Fabric
- No Dust Producing Activities
- Provide Access to Rear Entrance to Pool
Construction Safety Consultant

- Construction Safety Consultant Reviewing Plans
- Independent Third Party Review
- Additional Pedestrian Safety Related Mitigation Measures for City Consideration in Near Future
Peirce Island Parking Mitigation

- Expand Four Tree Island Parking Lot
- Safety Officer/Flagger
- Bus Turnaround / Parking Area During Working Hours
- Temporary Parking Area
- Relocate Path
- Close to Traffic after September 1, 2016
- Safety Officer/Flagger
Parking Mitigation – Expand Four Tree Island Parking Area

EXPAND EXISTING PARKING LOT
(24 EXISTING SPACES, 25 NEW SPACES)
49 SPACES TOTAL INCLUDING 3 HANDICAP SPACES

EXISTING TREE LINE

RELOCATE PATH

EXISTING EDGE OF PAVEMENT
Parking Mitigation – Expand Boat Ramp Parking Area

EXISTING DIRT PARKING AREA TO BE PAVED
64 SPACES TOTAL INCLUDING 3 HANDICAP SPACES, 1 VAN AND 2 AUTO
## Parking Space Breakdown

<table>
<thead>
<tr>
<th>Location</th>
<th>Existing</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Snow Dump Area</td>
<td>Approx 82</td>
<td>0</td>
</tr>
<tr>
<td>Pool Parking Lot</td>
<td>68</td>
<td>0</td>
</tr>
<tr>
<td>PI Rd On-Street Perpendicular Parking</td>
<td>23</td>
<td>23 (Nights After 6PM &amp; Weekends)</td>
</tr>
<tr>
<td>Four Tree Island Lot</td>
<td>24</td>
<td>49</td>
</tr>
<tr>
<td>Lot Adjacent to Boat Ramp</td>
<td>Approx 40</td>
<td>64</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>Approx 237</td>
<td>136</td>
</tr>
</tbody>
</table>
Archaeological Investigations on Peirce Island

Area A Previously Investigated

Area B

Area C

Protected Areas

Previously Investigated

Previously Investigated
Archaeological Investigations off Peirce Island
Off Leash Dog Area Plans

Closed After September 1, 2016
Site Changes and Improvements

- Presented to the Mayor’s Blue Ribbon Committee on Trees and Greenery on May 11, 2016
- Trees to be Removed will be Flagged
- Separate Meeting and Presentation will be Held Prior to Public Hearing
- Trail Improvements Can Be Coordinated During Construction Timeframe (4 Years)
Peirce Island Landscaping and Fence Line
## Trees To Be Planted

<table>
<thead>
<tr>
<th>Qty</th>
<th>Botanical Name</th>
<th>Common Name</th>
<th>Installation Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Juniperus Virginiana</td>
<td>Red Cedar Juniper</td>
<td>5 – 6 ft.</td>
</tr>
<tr>
<td>20</td>
<td>Juniperus Virginiana</td>
<td>Red Cedar Juniper</td>
<td>8 – 10 ft.</td>
</tr>
<tr>
<td>14</td>
<td>Picea Glaucua</td>
<td>White Spruce</td>
<td>6 – 7 ft.</td>
</tr>
<tr>
<td>15</td>
<td>Picea Glaucua</td>
<td>White Spruce</td>
<td>10 – 12 ft.</td>
</tr>
<tr>
<td>3</td>
<td>Pinus Strobus</td>
<td>White Pine</td>
<td>7 – 8 ft.</td>
</tr>
<tr>
<td>6</td>
<td>Pinus Strobus</td>
<td>White Pine</td>
<td>12 – 14 ft.</td>
</tr>
<tr>
<td>4</td>
<td>Amelanchier Laevis</td>
<td>Allegheny Serviceberry</td>
<td>2 – 2.5” Cal.</td>
</tr>
<tr>
<td>71</td>
<td>Total</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Not including 10 trees to be replaced in kind at pool parking lot & off-leash dog area
Invasive Species Management

- Contractor to Control Invasive Species
- Specified Areas
- During Construction
- 1 Year Following Construction
Summary of Potential Mitigation Measures

- Add Bid Alternates for Barging
- Possible Relocation of Snow Dump
- Add Additional Parking at Four Tree Island Lot
- Add Additional Parking Adjacent to the Boat Ramp Lot
- Relocate the Pool Entrance
- Continue to Investigate Options for Dog Walking Area
- Contractor Cannot Work During Specific Events
- Continue to Adjust as Needed During Construction
Peirce Island Road Bridge

- Constructed 1958
- Typical Lifespan 50 Years
- Plan for Replacement
- Could be Eligible for NHDOT Municipal Bridge Aid Program with 80% Grant Funding
- Potential Replacement Cost $7M
Peirce Island Road Bridge

- Deck Maintenance Project
  - Extend Life to Take Advantage of DOT Funding
  - Avoid Repairs During WWTF Construction
  - Repair Mechanic Street Pump Station Force Main
- Cost: $414,000
- Schedule:
  - Late May through Late September
Peirce Island Road Bridge – Traffic Details

- Phase 1 and 2 (June, July, Aug)
  - Temporary Traffic Signal on Both Sides of Bridge
  - One Way Alternating Traffic
  - 10-ft Wide Lane Width
  - Parking Restriction Along Mechanic Street

- Miscellaneous (Sept)
  - Intermittent One Way Alternating Traffic
  - No Lane Width Restriction

- Pedestrian Access Only Restricted on Limited Basis for Repairs of the Pedestrian Walkway
Communication Plan

- **Public Meetings**
  - Quarterly Council Meetings
  - Monthly Public Meetings

- **Media**
  - Press Releases
  - Quarterly Newsletter
  - Email Notifications

- **Social Media**
  - Twitter

- **Website**
  - Construction Schedules
  - Construction Plans
  - Traffic Estimates
  - Webcam
Questions and Answers