City of Lake Forest Park
Lyon Creek Flood Mitigation

Lyon Creek Watershed = 2,448 Acres

TOWN CENTER
City of Lake Forest Park
Lyon Creek Flood Mitigation
City of Lake Forest Park
Lyon Creek Flood Mitigation

Existing Culverts L40 (upstream culvert in Town Center)
### City of Lake Forest Park
### Lyon Creek Flood Mitigation

**Lyon Creek Flows at Town Center**

<table>
<thead>
<tr>
<th>Return Period (yr)</th>
<th>Flow (cfs)*</th>
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<tbody>
<tr>
<td>2</td>
<td>88.8</td>
</tr>
<tr>
<td>5</td>
<td>127.1</td>
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<tr>
<td>10</td>
<td>157.6</td>
</tr>
<tr>
<td>25</td>
<td>202.5</td>
</tr>
<tr>
<td>50</td>
<td>241.0</td>
</tr>
<tr>
<td>100</td>
<td>284.3</td>
</tr>
<tr>
<td>200</td>
<td>337.6</td>
</tr>
<tr>
<td>500</td>
<td>414.6</td>
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</tbody>
</table>

**Notes:**
- 1 cfs (cubic foot per second) = 449 gallons per minute
- *Return Period* is the average length of time between flood events of a given magnitude. For example, the 2-year flow will occur, on average, once every two years.
City of Lake Forest Park
Lyon Creek Flood Mitigation

Flood Photos (Dec 2010) – Culvert L40 into L30
Flood Photos (Dec 2010) – Culvert L40

Normal Condition

Flood Condition
Flood Photos (Dec 2010) – Alley Behind Albertsons
Flood Photos (Dec 2010) – Entrance from Bothell Way
Flood Photos (Dec 2010) – Entrance from Bothell Way/Arco
Flood Photos (Dec 2010) – Bothell Way
2007 Flood Photos – Gold’s Gym (now Planet Fitness)
2007 Flood Photos – LFP Post Office (now Avid Angler)
Culvert Comparison – Existing vs. Proposed

CULVERT L40 – SECTION X-X

SCALE: 1" = 5'

Existing culvert opening
Proposed culvert opening
## Lyon Creek Flood Mitigation - Schedule

Printed: 2/18/2015

<table>
<thead>
<tr>
<th>Task Name</th>
<th>2014</th>
<th>2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Easement Acquisition</td>
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<tr>
<td>Preliminary Engineering</td>
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<td>Design</td>
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<td>Public Involvement</td>
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<tr>
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<tr>
<td>Construction</td>
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<td></td>
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<tr>
<td>Closeout</td>
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<td></td>
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</tbody>
</table>
Town Center Construction Phasing

- Phase 1:
  - SR522: 1 weekend
  - Town Center: 2-3 weeks
- Phase 2: 2-3 weeks
- Phase 3: 1 week
- Phase 4: 2-3 weeks
- Phase 5: 1-2 weeks
SR 522 Weekend Closure

- Full closure of SR 522 over single weekend in July, 2015 with planned detour route
- 24/7 work schedule
- 1 Town Center entrance blocked – no impacts to other entrances
Detour Route for SR 522 Weekend Closure

- SR 104/Ballinger Way
- NE 178th St
- Brookside Blvd NE
Construction – Impacts to Site Utilities

- Temporary water service outage from 11pm-5am for water main replacement - see figure below.
- Potential short term power outage during Phase 4 culvert construction.
Seattle Public Utilities’ Thornton Creek Confluence project (built in 2014-2015) included a bridge similar to the culverts proposed in Lyon Creek.
Project Benefits – Mall Access to Whispering Willow Park
Project Benefits – Increased Visibility

Existing trees will be replaced with shorter, native vegetation to improve mall visibility from SR 522.
City of Lake Forest Park
Lyon Creek Flood Mitigation

Â Town Center currently owns and maintains culverts
Â City will replace culverts paying all design and construction costs (no contribution from Town Center)
Â City will maintain culverts (permanent easements)
Invitation for Tenant Input on Construction Signage