Current Infrastructure Projects & Programs

February 5, 2018
CURRENT INFRASTRUCTURE PROJECTS

CEDAR MILL/
NORTH JOHNSON CREEKS
TYPES OF PROJECTS & PROGRAMS

- Commercial/Industrial
- Residential
- Sanitary
- Transportation
- Public
- Natural Resource Enhancement
Commercial/Industrial Projects

- New development dominantly commercial
- Often a high proportion of impervious area
- Required water quality treatment
- Likely to have detention requirements
- Can invest in floodproofing, flood protection, hydraulic analysis if needed
- Peterkort development, Nike improvements
Residential Development Projects

- Large range in absolute $ invested
- Typical/general impact on flooding from these types of projects
- Touchmark Senior Independent Living Community – expanding into an additional 76 acres that straddles basin near Barnes and Miller Rd.
- Commonwealth Place, 34 lots on 5.24 ac north of Commonwealth Lake
Sanitary Sewer Projects

- Replacing existing sewer lines and extending new lines
- Often in creek corridors, installed typically > 3 feet below streambed
- No impervious area associated with pipelines, small areas associated with pump stations
- Sanitary sewer upsizing from Jenkins Rd. to Beaverton Interceptor
- Sanitary sewer relocation to accommodate roadway improvements at Walker-Murray interchange
Transportation Projects

• New or expanded roadways, often with transit, bike, pedestrian improvements
• New impervious surface, with required water quality management
• May also have federal detention requirements due to funding, creek crossings
• Jenkins Rd, Walker-Murray improvements
• Butner Rd. culvert replacement
Public Projects

• Wide variety including schools, parks
• Flooding impact a function of % impervious area, slope, etc.
• Trail and walkway improvements at Foege, Commonwealth Lake Parks
Natural Resources Enhancement Projects

- Invasive vegetation control, management of water and stream channels, revegetation with native species
- May be tied to other infrastructure projects
- Neutral to beneficial with respect to flooding
- Stream corridor enhancement Cedar Mill Creek between Jenkins Rd. and THPRD Nature Park
Programmatic Activities

- Range across the basin, typically small footprints for each effort
- Limited impact on flooding unless instream or aerially extensive
- May be expandable to address flood issues
- Will require commitment of FTEs, $ to build sustainable organizational capacity

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<td>Private regional water quality facility maintenance</td>
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HEADWATERS

No projects identified in this zone

- Steep slopes, landslides common
- Few vacant parcels
- Forest Heights HOA throughout
UPPER ZONE

Touchmark Independent Living

• Builds on existing Senior Living facility
• 76.6 acres mixed multi-family, single family, clubhouse, maintenance, and parking
• Straddles basin divide
• Water quality facilities
• Detention to protect downstream conveyance
MIDDLE ZONE

Peterkort Development

• Continuing development, with land use approvals in 2004
• Dominantly commercial
• Substantial stream corridor width already protected
• Regional detention facility already in use
LOWER ZONE

Most activity is in this Zone

- Primarily re-development
  - Roadway improvements and related natural resource enhancement
  - Nike drainage improvements and additional commercial development in progress
  - Sanitary sewer improvements
  - Minor pathway improvements
  - Minor residential development
- “Detention” for new impervious surface of roadways included in NR project
- Few additional flood mitigation opportunities on current projects
- Detention required for new impervious area
Questions?