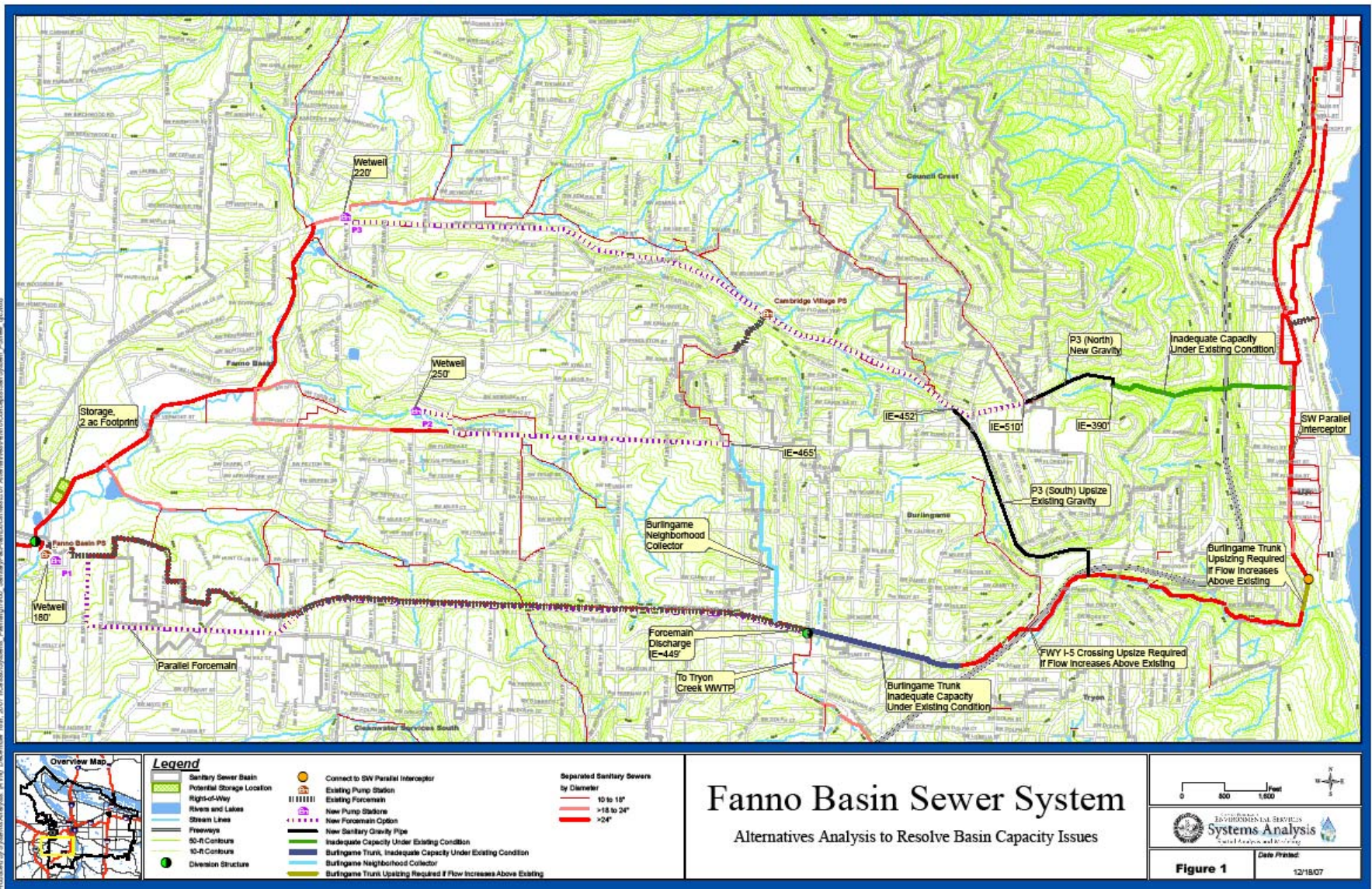


Fanno Creek Basin Public Facilities Plan Amendment



Bureau of Environmental Services

Fanno Creek Basin- Existing Sewer System



Produced by Systems Analysis, Inc. (SAI) December 18th, 2007 10:45:11 AM. File Path: \\fanno\ch07\Map107_Alters\Proposed\Conceptual\San System_P107.mxd

Fanno Creek Basin

5-yr Storm Flow/Capacity Issues

- Peak Flow in Fanno Creek Basin 44 cfs

 - Pumping Capacity of existing Fanno Basin Pump Station 24 cfs
-
- Pumping capacity deficiency 20 cfs

Fanno Creek Basin

Capacity Issues

- Peak storm flow includes infiltration & inflow of surface and groundwater

- Capacity deficiency results in:
 - Failure to manage flows as required by the City's NPDES permit and Agreement with CWS
 - Potential overflows to Fanno Creek

- Solution needed to manage sewer needs and address a public health risk

Proposed Projects

Fanno Creek Basin

Flow Capacity Improvement Option Selected

- New SW 86th Avenue Pump Station and associated facilities

- Reasons for selecting this option:
 - Most efficient way to capture flow
 - Least disruptive to the public
 - Most cost effective
 - Least impact to the Clean Water Services collection and conveyance system

Fanno Creek Basin

Project Elements

- **SW 86th Ave Pump Station & Appurtenances**
New 20-cfs minimum capacity pump station and appurtenances, including a surge protection facility
- **SW 86th Ave Diversion/Flow Control Manhole**
Replacement of an existing manhole with a new manhole that can divert and control flow to existing and new pump stations
- **SW 86th Ave Sewer Extension**
New sewer line from the Diversion/Flow Control Manhole to the new 86th Avenue Pump Station

Fanno Creek Basin

Other Options Evaluated

- Building a new pump station and pressure line system further upstream
- Building a new 5-million gallon wet weather storage tank system
- Diverting excess flows to the Clean Water Services

Fanno Creek Basin

Public Outreach and Involvement

- ❑ BES Public Outreach staff began outreach efforts in summer 2009.
- ❑ Outreach efforts have focused on projects that address the need for increasing pumping capacity in the Fanno Creek Basin.
- ❑ Neighborhood residents have expressed concern with respect to construction impacts, odor, noise and vibrations from the existing pump station.

Fanno Creek Basin

Public Outreach and Involvement

- Public outreach and involvement methods are ongoing and have included:
 - Presentations to the local Citizen Participation Organization (CPO-3)
 - Public meetings
 - Informational flyers
 - Local newspaper media
 - Frequent E-mail updates to a list of interested individuals and organizations
 - Project website

Fanno Creek Basin

Public Outreach and Involvement

- The BES design team is addressing concerns from the public through:
 - Improved facility design
 - Selected construction methods
 - Incorporating neighborhood feedback in design aesthetics and construction logistics

Washington County Land Use Review and Development Requirements

BES understandings regarding the County's Type II/III review requirements are based on pre-application advice from County Staff, subject to confirmation upon submittal of the actual applications

Washington County

Zoning Issues

- Site Zoning - Residential
- Pump Station and appurtenances may be allowed through a Type III review.
- Approval based on:
 - Present or future need;
 - How facility fits into utility's Master Plan;
 - Minimum area required;
 - Measures to minimize damage to paved roads, natural resources, or open space.
 - Underground pipes and conduits are exempt from Type III, and subject to Type II review.

Washington County

Comprehensive Plan Requirements

- Washington County Comprehensive Plan requires that development not unduly conflict with area's character.

- Project will:
 - Limit tree removal
 - Provide effective screening
 - Size buildings to be compatible with area

Washington County

Floodplain Requirements

- The Diversion/Flow Control Manhole and Sewer Extension will be in Fanno Creek's 100-year floodplain.
 - Construction approval is subject to Type II review.
- Pump Station and Appurtenances will not be located inside the 100-year floodplain.

Washington County

Significant Natural Area Requirements

- Fanno Creek floodplain - including portions of site - is designated a "Water Area and Wetland" significant natural area.
 - Installation or construction of sewer utilities allowed in Water Areas and Wetlands.
 - Pump Station will not be in Significant Natural Areas.

Public Facility Plan Amendment

Fanno Creek Basin

Public Facilities Plan Amendment

- ❑ Proposed SW 86th Avenue projects are not currently listed in the City's acknowledged Public Facilities Plan (adopted in 1989).
- ❑ Proposal would amend the City's Public Facilities Plan, project list and Sanitary Sewer Element to include these projects.
- ❑ Amendment required for project to proceed.

Fanno Creek Basin

Staff Recommendation

- Recommend that City Council amend the adopted Public Facilities Plan, Sanitary Sewer Element and project list of the Comprehensive Plan as specified in the *Proposed Draft*.
- Recommend that City Council adopt the ordinance.