



— CITY OF PORTLAND —
ENVIRONMENTAL SERVICES



1120 SW Fifth Avenue, Room 1000, Portland, Oregon 97204 ■ Dan Saltzman, Commissioner ■ Dean Marriott, Director

MEMORANDUM

DATE: August 4, 2011

TO: Portland Planning and Sustainability Commission

FROM: Lester E. Lee, System Plan Manager, Bureau of Environmental Services

RE: Amendment to the Public Facilities Plan, Sanitary Sewer Element: Proposed Draft

The Bureau of Environmental Services is proposing to amend the City of Portland Comprehensive Plan's Public Facilities Plan, to include additional sanitary sewer projects in the Fanno Creek Basin. These projects are necessary to protect public health and safety.

Background

The Public Facilities Plan (PFP) was originally acknowledged by the State of Oregon's Land Conservation and Development Commission (LCDC) as part of the City's Comprehensive Plan in 1989. It includes a list of major infrastructure projects intended to serve the needs of the City for the following 20 years, as well as specific elements providing more detail on each infrastructure system. The Sanitary Sewer Element includes detailed information on the existing and planned sanitary sewer system, as well as projects necessary to serve land uses designated in the acknowledged comprehensive plan, protect public health and safety and meet applicable level of service standards and regulatory mandates.

A new diversion structure, sewer extension and sewage pump station are currently needed in the Fanno Creek Basin to properly manage the area's sewer needs and address a public health risk. These projects are not currently listed in the City's acknowledged Public Facilities Plan.

The Bureau of Environmental Services is required by the Oregon Department of Environmental Quality to maintain wastewater pumping facilities that have the capacity to operate without overflow or bypass during the 5-year, 24-hour design storm for winter and 10-year, 24-hour design storm for summer, as part of the City's National Pollutant Discharge Elimination System (NPDES) wastewater treatment plan permit. This permit requires that the City protect water quality of the receiving streams and satisfy requirements of the Clean Water Act.

In addition, the City's Wholesale Sewer Service Agreement with Clean Water Services requires the Fanno Pump Station to pump 100% of the flows from the area upstream of the pump station to the City of Portland with no overflows or bypasses to Clean Water Service's system, during normal operating conditions. To accomplish this, the City must have sufficient pumping capacity to manage anticipated flows, including infiltration and inflow during peak storm events.

The existing Fanno Creek Pump Station does not have sufficient capacity to manage existing flows, primarily due to excessive and unintended infiltration and inflow of surface and groundwater into the sanitary sewer system. This capacity deficiency results in a failure to manage flows as required by the City's permit and overflows to Fanno Creek, which poses a risk to public health.

To address this hydraulic capacity deficiency, the Bureau of Environmental Services is proposing three interrelated projects, the SW 86th Ave Diversion Structure, the SW 86th Sewer Extension, and the SW 86th Ave Pump Station. These proposed facilities are located within the Fanno Creek drainage basin in Washington County. The proposed facilities will serve both residents within the City of Portland's Bureau of Environmental Services' and Washington County's Clean Water Services' service areas.

These projects need to be included in the Public Facilities Plan in order to procure permits for the new facilities. Development applications for the projects will be submitted to the Washington County Planning Department.

Relation to Periodic Review of the Portland Comprehensive Plan

The proposed amendment will add the three projects described above to the Comprehensive Plan's Public Facilities Plan and project list, to address an urgent need. The Bureau of Environmental Services intends to propose a complete update of the Sanitary Sewer Element of the Public Facilities Plan, as required by periodic review, through the City's update of the Comprehensive Plan in 2012. Findings related to the current Comprehensive Plan and the Statewide Planning Goals are included in the attached ordinance.

Proposal

The proposed action will amend the Public Facilities Plan, including the project list and Sanitary Sewer Element to include the proposed SW 86th Avenue projects, as shown in Attachments A and B. Amendments are shown in strikeout (deletions) or underline (additions). Details of the existing system, deficiencies, and proposed projects to address the deficiencies are contained in the attached materials. The proposed amendments also include changes to Figure 4-3, a map of existing and proposed facilities. The existing Figure 4-3, as included in the 1989 adopted Public Facilities Plan, has been included for reference.

The methodology and the balance of the Public Facilities Plan are unchanged. No changes are proposed to the land use, projected population, levels of service, or thresholds for included facility projects (e.g. pipes 15" or larger).

The proposed Public Facilities Plan amendment is a legislative action and must be reviewed by the Planning and Sustainability Commission prior to being submitted for adoption by City Council. The City will follow the legislative process spelled out in Chapter 33.430 of the Portland City Code, for hearing and adopting the proposed public facilities plan. After adoption by City Council, the amendment will be submitted to the Oregon Department of Land Conservation and Development as a post acknowledgement plan amendment. The City will follow the public notification and procedural steps required for this type of amendment.

Recommendation

Staff proposes that the Portland Planning and Sustainability Commission take the following actions:

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

Attachments

- Attachment A: Draft Ordinance
Exhibit A: Proposed Amendment to the Public Facilities Plan
Exhibit B: Proposed Amendment to the Sanitary Sewer Element
i. Narrative: 5-Fanno Creek Basin
ii. Table 4-7: Existing and Proposed Facilities
iii. Figure 4-3: Map of the Fanno Basin: Location Of Existing and Proposed Facilities
Exhibit C: Findings on Oregon Statewide Planning Goals and Portland Comprehensive Plan Goals
- Attachment B: Letter of Support from the Oregon Department of Environmental Quality

BY: LESTER E. LEE
Oregon Professional Engineer
License #10,697PE



ORDINANCE No.

Amend the Portland Comprehensive Plan's Public Facilities Plan and Sanitary Sewer Element to include additional sanitary sewer projects in the Fanno Creek Basin necessary to meet existing level of service standards, serve designated land uses and protect public health and safety.
(Ordinance)

The City of Portland ordains:

Section 1. The Council finds that:

1. The City of Portland adopted its Comprehensive Plan on October 16, 1980 (Ordinance 150580, effective date January 1, 1981). The Plan was acknowledged as being in conformance with Statewide Land Use Planning Goals by the Land Conservation and Development Commission (LCDC). Upon its adoption, the Plan complied with State Goal 11: Public Facilities.
2. In October 1984, the Oregon Land Conservation and Development Commission adopted the administrative rule on public facilities planning (OAR 660, Division 11). The purpose of the rule is to aid in achieving the requirements of Goal 11, Public Facilities and Services by implementing ORS 197.712 (2)(e), requiring cities to develop and adopt a public facilities plan. The Facilities plan describes water, sewer and transportation facilities which are to support the land uses designated in the acknowledged comprehensive plan (OAR 660-11-005).
3. The Public Facilities Plan for the City of Portland was adopted by City Council Ordinance No. 161770 on April 5, 1989. The Public Facilities Plan includes a list of major sanitary sewer projects intended to serve the needs of the City for the following 20 years.
4. The Sanitary Sewer Element of the Comprehensive Plan was originally adopted by City Council by Ordinance 161770 on April 5, 1989. The Sanitary Sewer Element includes detailed information on the existing and planned sanitary sewer system as well as projects necessary to serve land uses designated in the acknowledged comprehensive plan, protect public health and safety and meet applicable level of service standards and regulatory mandates.
5. Bureau of Environmental Services provides sanitary sewer services to the City of Portland and unincorporated areas within the urban services boundary, per the Urban Services Policy (adopted by Resolution 33327 and amended by Ordinance 155002).
6. On May 20, 1998, the City of Portland and Clean Water Services (formerly the Unified Sewerage Agency) entered into a Wholesale Sewer Service Agreement to provide for the transportation and treatment of sewage flowing from areas served by each party to treatment facilities operated by the other party.

7. Ordinance 176563, adopted in June 2002, amended the Wholesale Sewer Service Agreement between the City of Portland and Clean Water Services. Under this amended agreement, during normal operational conditions, the Fanno Pump Station is required to pump to the City of Portland 100% of the flows from the area upstream of the pump station with no overflows or bypasses to Clean Water Service's system. The City shall design the pump station to have adequate capacity for anticipated flows, including infiltration and inflow during peak storm events.
8. The existing pumping facility, the Fanno Creek Pump Station, does not have sufficient capacity to manage existing flows, primarily due to excessive and unintended infiltration and inflow of surface and groundwater into the sanitary sewer system. This capacity deficiency results in a failure to manage a 5-year storm as required by the City's NPDES permit and overflows to Fanno Creek, which poses a risk to public health.
9. To address this hydraulic capacity deficiency, the Bureau of Environmental Services is proposing three new interrelated projects, the SW 86th Ave Diversion Structure, the SW 86th Sewer Extension, and the SW 86th Ave Pump Station. These proposed facilities are located in Washington County and within the Fanno Creek drainage basin.
10. On July 27, 2011, notice of proposed action was mailed to the Oregon Department of Land Conservation and Development (DLCD) in compliance with the post-acknowledgement review process required by OAR-660-020.
11. Public notice was mailed to approximately ____ individuals, groups, agencies and other entities on August 12, 2011, including neighborhood and business associations within the Fanno Creek Basin in both Portland and Washington County and all residents within 1000' of the proposed projects. Notice was also sent by email to persons who have requested notification about the Fanno Creek Pump Station Expansion Project.
12. On September 13, 2011, the Planning and Sustainability Commission held a public hearing to receive testimony on the proposed amendments to the Public Facilities Plan. The Commission voted to forward the proposed amendments to City Council.
13. Findings of compliance with Statewide Planning Goals and the Portland Comprehensive Plan are contained in Exhibit C.

NOW, THEREFORE, the Council Directs

- a. Adopt the amendment to the Portland Comprehensive Plan Public Facilities Plan, including amendments to the project list, dated September 2011, which is attached as Exhibit A;
- b. Adopt the amendment to the Portland Comprehensive Plan Public Facilities Plan: Sanitary Sewer Element, dated September 2011, which is attached as Exhibit B;

**ATTACHMENT A
DRAFT ORDINANCE**

- c. Adopt the findings for the Public Facilities Plan amendment, dated September 2011, as shown in Exhibit C, as an expression of legislative intent and as further findings to support City Council's action; and
- d. If any section, subsection, sentence, clause, phrase, diagram or drawing contained in this ordinance, or the plan, map or code it adopts or amends, is held to be deficient, invalid or unconstitutional, that shall not affect the validity of the remaining portions. The Council declares that it would have adopted the plan, map, or code and each section, subsection, sentence, clause, phrase, diagram and drawing thereof, regardless of the fact that any one or more sections, subsections, sentences, clauses, phrases, diagrams or drawings contained in this Ordinance, may be found to be deficient, invalid or unconstitutional.

Passed by the Council:

Mayor Adams

Prepared by: L. Lee

Date Prepared: August 5, 2011

LaVonne Griffin-Valade

Auditor of the City of Portland

By

Deputy

PROPOSED AMENDMENT

City of Portland Comprehensive Plan
Public Facilities Plan – Project List

Page 35

A. SHORT TERM

(This is a summary list of Public Facilities Plan projects. Please refer to each bureau's Public Facilities Plan for detail on each project).

Sanitary Sewer

I-26	122 nd Avenue Trunk
I-29	Cherry Park Pump Station and Trunk
J-2	South Mid-County Trunk
J-3	Holgate Pump Station and Pump Line
I-28	Burnside Basin Trunk
J-4	103 rd Avenue Trunk
C-1	Lombard Basin Trunk
C-2	Broadway Basin Pump Station and Trunk
I-5	Cully Basin Pump Station and Trunk
I-7	Cully Basin Trunk
I-13	Airport Way Pump Station and Trunk
I-14	Airport Way Pump Station and Trunk
I-15	Airport Way Pump Station and Trunk
P-26	Hayden Island Pump Station and Pressure Line
<u>F-3</u>	<u>SW 86th Ave Diversion Structure</u>
<u>F-4</u>	<u>SW 86th Ave Sewer Extension</u>
<u>F-5</u>	<u>SW 86th Ave Pump Station</u>

Combined Sewer

WHE-1025	In-line Storage
WHE-1240	In-line Storage
WHE-1131	In-line Storage
WHE-1232	In-line Storage
WHE-1102	In-line Storage
WHE-1160	In-line Storage
WHE-1268	In-line Storage
WHE-1221	In-line Storage
WHE-1128	In-line Storage
WHE-1118	In-line Storage
STA-1041	Drainage Sumps
ATA-3013	In-line Storage
13T-5028	Drainage Sumps
13T-1227	Drainage Sumps
13T-1516	Drainage Sumps
13T-1606	Drainage Sumps
13T-3506	Drainage Sumps
13T-1620	Drainage Sumps
13T-1205	Drainage Sumps
13T-5404	Drainage Sumps

PROPOSED AMENDMENT

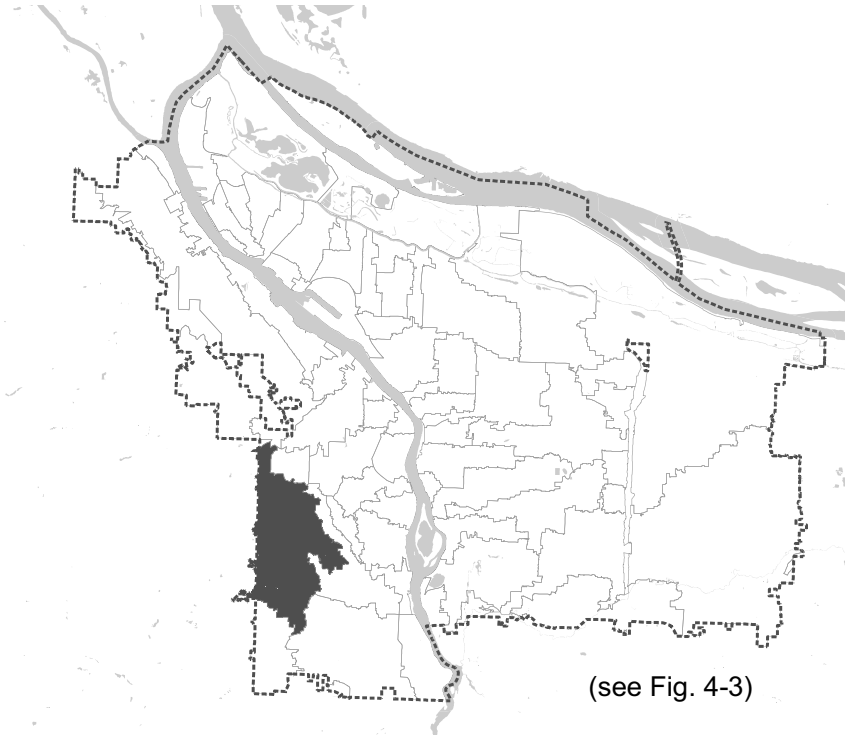
City of Portland Comprehensive Plan
Public Facilities Plan – Sanitary Sewer Element

Pages 4-5 to 4-5B and Figure 4-3 (Existing and Proposed)

5-FANNO CREEK BASIN

Drainage Area
Approximately
1,900 acres.

Topography
Fanno Creek and its tributaries drain the west face of the West Portland Hills, the Tualatin Mountains. The basin is bounded by the City's Urban Services Boundary on the west, the West Skyline Basin and the Southwest Basin on the north and the Tryon Creek Basin on the east and south. The basin drains west out of Portland's Urban



Services Area via Fanno Creek to the Tualatin River. This is a hillside basin draining to Fanno Creek which has cut a narrow valley between the hills. Predominant geographic features are Fanno Creek, and the West Portland Hills (Tualatin Mountains). Slopes range from 1% to over 10% on the hillsides. The hillsides are cut by many small watercourses. Elevations generally range from 150 feet to 1000 feet. The basin is largely covered by second growth conifer forest. It is primarily residential in nature. It is approximately 75% developed.

Soil Characteristics
Poorly drained clay soils underlaid by clay hardpan predominate.

Existing Land Use
Residential Use 73%; Commercial Use 1%; Open space and Vacant Use 26%. There were 2,800 residential units in this basin in 1985. 1985 population was 7,300.

Future Land Use
The existing land use pattern reflects Comprehensive Plan designations. Residential Use is to increase 8% to 81%; Commercial Use 1%, Open space and Vacant Use to decrease 8% to 18%. Year 2005 population projections show an additional 900 residential units in this basin for a total of 3,700. Year 2005 population is projected to be 8,700.

Existing System

~~There is one significant facility in this basin with an overall length of 2.0 miles. Pipe size ranges from 15 inches to 21 inches in diameter. Sanitary wastewater flows west out of this basin to the Unified Sewerage Agencies (USA) facilities. The USA treats the waste water as a contract service to the City of Portland. In addition, there is a pump station and pressure line in this basin (see T-11) which pumps a portion (1.99 cfs) of the wastewater from this basin back through the Tryon Creek system (through pump station and pressure lines at T-10 and T-9) to the Tryon Creek Treatment Intereceptor. Pipe is relatively new concrete. Based on the results of inspections, where inspection have been made, the pipe appears to be in good condition with only occasional minor defects. The facilities is listed on Table 4-7. Facility locations are shown on Figure 4-3.~~

The existing sanitary trunk sewer system is adequate and in good condition to provide for projected growth in this basin. The City has determined that it is more economical to pump flows (that would naturally flow westerly towards the Tualatin River), back to the east, to the Portland system for treatment. As a result, the existing system consists of two pump stations and three major sewers in the basin (T-8, F-1, and F-2).

The **Cambridge Village Pump Station (T-8)** (SW 35th and SW Beaverton Hillsdale Highway), has a capacity of 2 cfs. Cambridge Village is designed to pump high flows associated with moderate to intense storms. Cambridge Village Pump Station discharges to the Burlingame basin. During dry weather it does not operate and the sanitary sub-basin above the pump station drains to the Tryon Creek Interceptor.

The **Fanno Creek Interceptor (F-1)** (FCI) ranges from 10 to 36-inches in diameter and is the main gravity collector for the basin. The FCI flows west starting at the Cambridge Village Pump Station and receives flow from various Portland and Washington County neighborhood collectors. The FCI continues flowing west, parallel to Beaverton-Hillsdale Highway, until it turns south near the Washington County line. The FCI continues south along Fanno Creek, receiving flows from the 24-inch diameter **Vermont Trunk** and the 21-inch diameter **Woods Trunk**, before entering the Fanno Diversion Structure. The Fanno Diversion Structure directs all flow to the Fanno Basin Pump Station under normal operations.

The **Fanno Basin Pump Station (F-2)** (6895 SW 86th Avenue) has a capacity of 24 cfs. The Fanno Basin Pump Station discharges to Burlingame Trunk at SW 31st and Multnomah via a 30-inch diameter steel force main. A parallel 30-inch steel force main was installed to allow for future additional pumping capacity. The Burlingame Trunk flows east and eventually enters the combined sewer system's Southwest Parallel Interceptor.

ATTACHMENT A
DRAFT ORDINANCE

During large storms, if wet weather flows exceed the capacity of the Fanno Basin Pump Station, water will rise in the diversion structure and flow through two 16-inch diameter orifices to the CWS Fanno Creek Interceptor. During any condition, if needed for maintenance or capacity issues and with prior approval by Clean Water Services, the diversion gate may be opened to allow sewage to flow into the CWS Fanno Interceptor and to the Durham Advance Wastewater Treatment Facility.

Existing Capacity Deficiencies

During the wet months of the year (November through March), the Fanno Creek Basin sanitary system can experience high rates of stormwater infiltration and inflow (I/I). This includes infiltration from seasonally elevated ground water that enters sewer pipes through holes, breaks, joint failures and inflow sources such as yard and footing drains, directly connected downspouts, and holes in manhole covers.

Under saturated conditions and large rain events, approximately equal to the 2-year recurrence interval storm, the flow to the Fanno Basin Pump Station can exceed the station capacity and excess flow may enter the CWS Fanno Creek Interceptor. Certain reaches of the CWS collection system are also likely experiencing flows near system capacity and thus, the additional flows from the Fanno Creek Basin during intense storms may cause uncontrolled overflows to occur. If not relieved, the excess flows could cause excessive pressures in the CWS collection system that could damage the structural integrity of the pipes and manholes. Demand analysis indicates that the Fanno Basin system must be able to capture and pump up to 44 cfs during the 5 year design event to prevent Fanno Creek Basin flows from spilling over into the CWS collection system. Thus, the current Fanno Basin Pump Station capacity is deficient and BES needs to provide an additional 20 cfs pumping capacity to meet the State's 5-year design standard.

The City and CWS cooperatively provide services to the area customers under a Wholesale Sewer Service Agreement that facilitates payment between the City and CWS as compensation for providing sewage service. Under this agreement, the City is a net payer to CWS. The agreement includes a requirement that the Fanno Basin pumping system contain 100% of the flows from the Fanno Creek basin as well as the Fanno Creek CWS service area tributary to the pump station. The existing Fanno Basin Pump Station does not have the firm pumping capacity to meet this requirement.

The existing parallel 30-inch force mains have sufficient conveyance capacity for the increased pumping from the Fanno Basin system. However, these steel force mains experience transient surge pressures generated when one or more pumps shut off during normal operations. Surge analysis has determined that this problem must be addressed by surge tanks installed at the proposed new SW 86th Ave pump station to protect the force mains.

4-5AA

Proposed System

~~The existing sanitary trunk sewer system is adequate to provide for projected growth in this basin through the year 2005. No additional trunk facilities are required. This area lies west of ridge separating the Willamette and Tualatin Valleys. The area's sanitary wastewater may either be drained to the Unified Sewerage Agencies service area or pumped to drain into the Tryon Creek Basin. In the event the City determines pumping to Portland facilities is the most economical, alternative pump station expansion will be required and Tryon Creek system will have to be rehabilitated to provide additional capacity.~~

To address the above mentioned capacity deficiencies, the proposed system improvements would include the design and construction of a gravity sewer diversion structure with overflow relief; an extension of the gravity sewer from the diversion structure to the East, and the SW 86th Ave. pump station which will include surge protection.

The pumping capacity of the existing Fanno Basin system should be increased from 24 cfs to 44 cfs. The expanded pumping capacity will be conveyed by two existing 30-inch diameter force mains. A surge tank facility should be installed to protect the force mains. The Burlingame Trunk Sewer Improvement project, currently under construction, will provide adequate downstream capacity to convey flow from both force mains. A new gravity sewer diversion structure is needed to control and direct influent flow to the proposed SW 86th Ave pump station and the existing Fanno Basin Pump Station.

As a result, the proposal for increasing the pumping capacity of the Fanno Basin system is to construct a new pump station, **SW 86th Ave Pump Station (F-5)**, with a minimum pumping capacity of 20 cfs, including surge protection for the two existing force mains, to the east of the existing Fanno Basin Pump Station. In conjunction with the SW 86 Ave Pump Station, a new flow control facility, **SW 86th Ave Diversion Structure (F-3)**, will be needed to manage the flow volume to each of the pump stations. Lastly, piping between the flow control facility and the new pump station, **SW 86th Ave Sewer Extension (F-4)**, will be required to convey the flow to the new pump station.

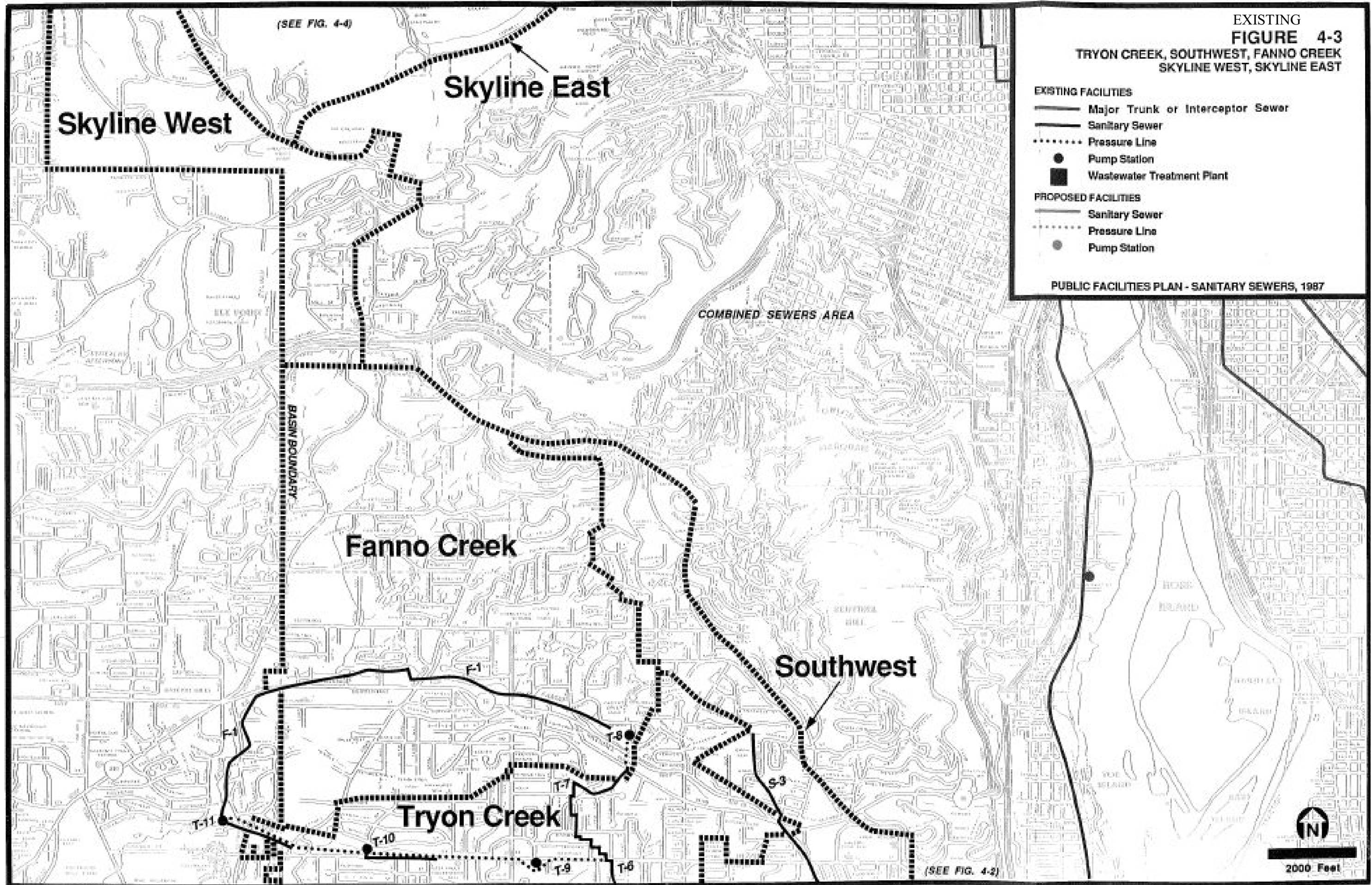
Therefore, to address the capacity deficiencies, three new projects are proposed, the SW 86th Ave Diversion Structure, SW 86th Sewer Extension, and the SW 86th Ave Pump Station; facility numbers F-3, F-4, and F-5 respectively.

4-5AAA

Table 4-7
EXISTING AND PROPOSED FACILITIES

Fanno Creek Basin			EXISTING FACILITIES				PROPOSED FACILITIES				Comment			
Facil. Num.	Rank	Basin (1/4 sect)	Drainage Area (acres)	Type/Size	Phys. Cond.	Exist. Capacity (min.) (cfs)	Maint. Responsibility	Type/Size	Req'd Capacity (cfs)	Cost x \$1,000		Time Est.	Provider with Author.	Funding Mechanism
F-1 (Fanno Creek Interceptor, Cambridge Village PS, Vermont & Woods Trunks)		3522-5, 3622	1,900	15-33"	Good	8.1	COP		5.9					Drains to T-11 pump station. Ollesen Rd. 1.0 cfs pumped back to T-10. Rerouted to USA. Fanno Ck Interceptor, Vermont and Woods Truck flows to Fanno Pump Station
F-2 Fanno Pump Station		3720	1,900	Pump Station	Good	24 cfs	COP		44					Existing Fanno Pump Station is under capacity by 20 cfs
F-3 SW 86th Ave. Diversion Structure	1	3720	4,347					Diversion Structure	44	800	Short Term	COP	CIP	Flow control and diversion to new (SW 86th Ave PS) and existing Fanno Pump Station
F-4 SW 86th Ave Sewer Extension	1	3720	4,347					Pipe	20	7,500	Short Term	COP	CIP	Gravity sewer from diversion structure to new (SW 86th Ave) pump station
F-5 SW 86th Ave Pump Station	1	3720	4,347					Pump Station	20	12,300	Short Term	COP	CIP	New pump station with minimum 20 cfs capacity, including surge protection for existing force mains

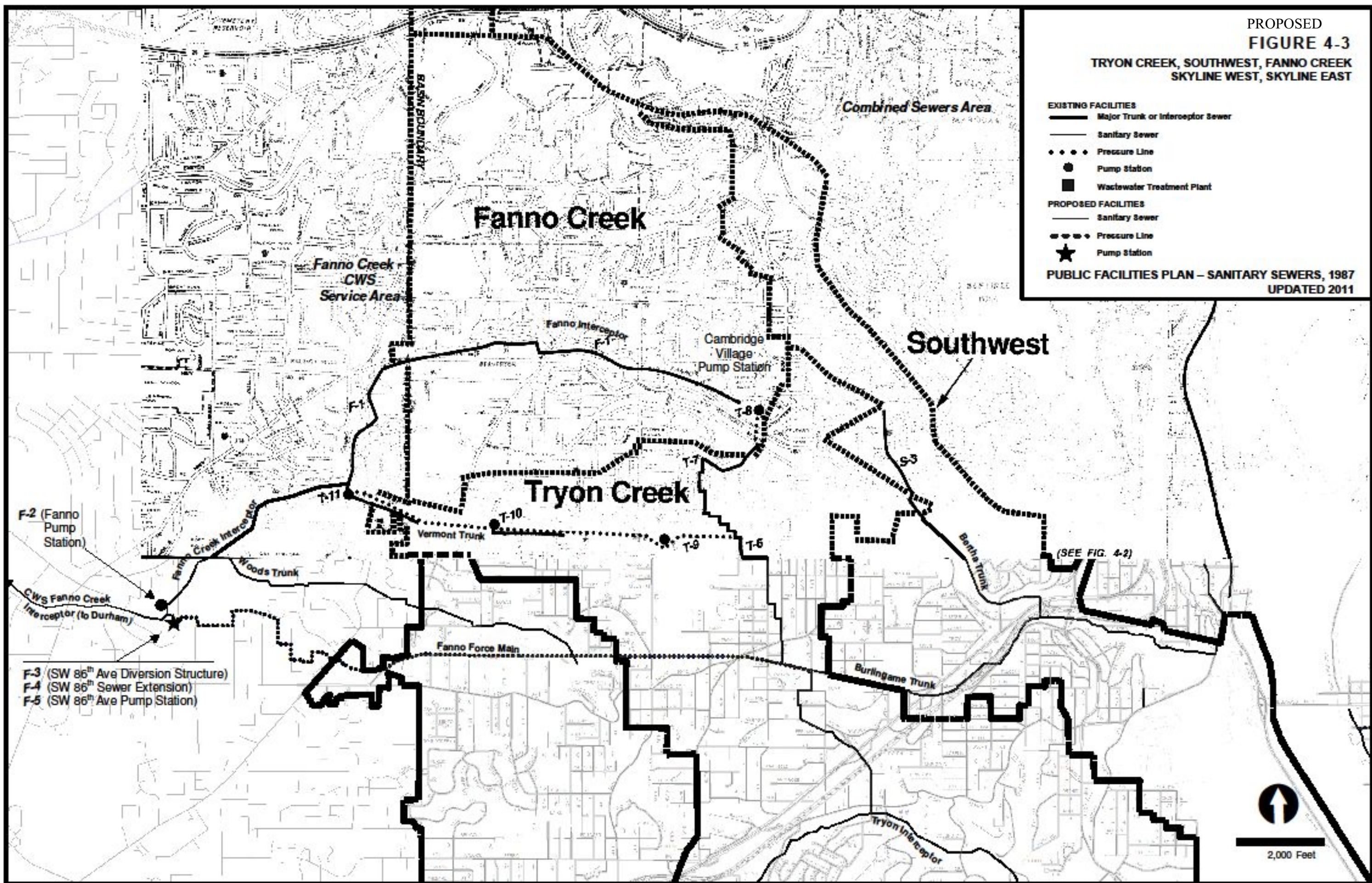
COP - City of Portland
 CWS - Clean Water Services
 CIP - Capital Improvement Program
 Very Short Term - Projects to be built as soon as possible
 Short Term - Projects to be built within the next 5 years
 Long Term - Projects to be built at least 5 years into the future
 PS - Pump Station, FM - Force Main, CSP - Concrete Sewer Pipe, I/I - infiltration and inflow



PROPOSED
FIGURE 4-3

TRYON CREEK, SOUTHWEST, FANNO CREEK
SKYLINE WEST, SKYLINE EAST

- EXISTING FACILITIES**
- Major Trunk or Interceptor Sewer
 - Sanitary Sewer
 - Pressure Line
 - Pump Station
 - Wastewater Treatment Plant
- PROPOSED FACILITIES**
- Sanitary Sewer
 - Pressure Line
 - ★ Pump Station
- PUBLIC FACILITIES PLAN – SANITARY SEWERS, 1987
UPDATED 2011**



Findings on Oregon Statewide Planning Goals

1. State planning statutes require cities to adopt and amend comprehensive plans and land use regulations in compliance with state land use goals. Only the state goals addressed below apply.
2. **Goal 1, Citizen Involvement**, requires provision of opportunities for citizens to be involved in all phases of the planning process. The preparation of these amendments has provided opportunities for public involvement as described below.
3. On August 13, 2011, public notice of the proposed amendments to the Public Facilities Plan was mailed to approximately ___ individuals, groups, agencies and other entities, including neighborhood and business associations within the Fanno Creek Basin in both Portland and Washington County and all residents within 1000' of the proposed projects. Notice was also sent by email to persons who have requested notification about the Fanno Creek Pump Station Expansion Project. The notice informed them of the proposal, the availability of the *Proposed Draft*, and the public hearing before the Planning and Sustainability Commission.
4. On August 13, 2011, the *Proposed Draft* was published and made available to the public, posted on the Bureau of Environmental Service's website, and mailed to those who requested copies.
5. On September 13, 2011, Planning and Sustainability Commission held a public hearing to receive testimony on the proposed amendments to the Public Facilities Plan. Staff from the Bureau of Environmental Services and the Bureau of Planning and Sustainability presented the proposal, and public testimony was received. The Commission voted to forward the proposal to City Council.
6. On September 19, 2011, notice of the City Council hearing was mailed to ___ individuals and organizations, including all those who had testified at the Planning and Sustainability Commission hearing in person or in writing, and those who had requested notice. The notice informed them of the availability of the *Recommended Draft*, and the public hearing before the City Council.
7. On September 19, 2011, the *Recommended Draft* was published. It was made available to the public, posted on the Bureau of Environmental Service's website, and mailed to those who requested copies.
8. October 5, 2011, City Council held a hearing on the Planning and Sustainability Commission recommendation for amendments to the City of Portland Comprehensive Plan's Public Facilities Plan. Staff from the Bureau of Environmental Services and the Bureau of Planning and Sustainability presented the proposal, and public testimony was received.
9. **Goal 2, Land Use Planning**, requires the development of a process and policy framework that acts as a basis for all land use decisions and assures that decisions and actions are based on an understanding of the facts relevant to the decision. The amendments support this goal because development of the recommendations followed established city procedures for

legislative actions. See also findings for Portland Comprehensive Plan **Policy 1.4, Intergovernmental Coordination.**

10. **Goal 10. Housing,** The amendment to the Public Facilities Plan complies with Statewide Planning Goal 10 Housing. The Public Facilities Plan has estimated service needs based on residential densities anticipated in the Comprehensive Plan. The amendments include public sanitary sewer facility projects necessary to serve residential plan designations.
11. **Goal 11. Public Facilities and Services,** requires the development of a public facility plan as a support document(s) to a comprehensive plan, which describes the water, sewer and transportation facilities necessary to support the land uses designated in the appropriate acknowledged comprehensive plan. The amendments support this goal as they update the adopted public facilities plan to include projects necessary to support currently designated land uses in the Fanno Creek Basin. See also findings for Portland Comprehensive Plan **Policy 1.4, Intergovernmental Coordination. Policy 11.1A, Service Responsibility, Policy 11.1B, Service Responsibility, Goal 11C, Sanitary and Stormwater Facilities and Policy 11.5, Improvement.**

Findings on Portland's Comprehensive Plan Goals

12. The City's Comprehensive Plan was adopted by the Portland City Council on October 16, 1980, and was acknowledged as being in conformance with the statewide planning goals by the Land Conservation and Development Commission on May 1, 1981. On May 26, 1995, the LCDC completed its review of the City's final local periodic review order and periodic review work program, and reaffirmed the plan's compliance with the statewide planning goals.
13. Only the Comprehensive Plan goals addressed below apply.
14. **Policy 1.4, Intergovernmental Coordination,** requires continuous participation in intergovernmental affairs with public agencies to coordinate metropolitan planning and project development and maximize the efficient use of public funds. The amendments support this policy because a number of other government agencies were notified of this proposal and given the opportunity to comment. These agencies include Metro, Washington County and Clean Water Services.
15. **Goal 9, Citizen Involvement,** calls for improved methods and ongoing opportunities for citizen involvement in the land use decision-making process, and the implementation, review, and amendment of the Comprehensive Plan. This project followed the process and requirements specified in Chapter 33.740, Legislative Procedure. The amendments support this goal for the reasons found in the findings for Statewide Planning Goal 1, Citizen Involvement.
16. **Goal 10, Housing.** The amendment to the Public Facilities Plan complies with Comprehensive Plan Goal 10, Housing. The Public Facilities Plan has estimated service needs based on residential densities anticipated in the Comprehensive Plan. The amendments include public sanitary sewer facility projects necessary to serve residential plan designations.

17. **Policy 11.1A, Service Responsibility**, requires that the City of Portland provide, within its boundaries of incorporation, sanitary and stormwater sewer facilities and services at levels appropriate for all land use types, where feasible and as sufficient funds are available from public or private sources. This amendment supports the planning and provision for sanitary sewer facilities and services necessary to support designated land uses.
18. **Policy 11.1B, Service Responsibility**, Outside its boundaries of incorporation, the City of Portland shall: (1) Acknowledge the City's role as principal provider of urban services within the City's established Urban Services Boundary and plan for the eventual delivery of urban services according to a phased program of improvements meeting the service needs of individual areas. (2) Coordinate closely with other jurisdictions providing services within the established Portland Urban Services Boundary. The City of Portland's Bureau of Environmental Services is the sanitary sewer service provider for areas covered under this amendment, per the Urban Services Policy and Wholesale Sewer Service Agreement with Clean Water Services. The City of Portland has coordinated with Washington County and Clean Water Services as related to this amendment as required by this policy.
19. Goal 11C, Sanitary and Stormwater Facilities, requires that the City of Portland insure an efficient, adequate and self-supporting wastewater collection treatment and disposal system which will meet the needs of the public and comply with federal, state and local clean water requirements. This amendment adds projects to the City's Public Facilities Plan necessary to insure adequate and efficient wastewater treatment and disposal as directed by this policy.
20. Policy 11.5, Improvement, requires the City of Portland to improve the existing sewer system in those areas adversely affected by overloaded sewer systems. This amendment adds projects to the City's Public Facilities Plan necessary to resolve existing capacity deficiencies in the sewer system.



Oregon

John A. Kitzhaber, MD, Governor

Department of Environmental Quality
 Northwest Region Portland Office/Water Quality
 2020 SW 4th Avenue, Suite 400
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 (503) 229-5263
 FAX (503) 229-6957
 TTY 711

July 20, 2011

Dean Marriott, Director
 City of Portland Environmental Services
 1120 SW Fifth Avenue, Room 1000
 Portland, OR 97204

RE: WQ - City of Portland
 NPDES NO. 100807
 File No. 70725
 Multnomah County
 Fanno Creek Pumping Capacity Expansion

Dear Mr. Marriott,

This purpose of this letter is to convey our support of Portland BES's plans to address the wet weather pumping capacity limitations of the Fanno Pump Station by the construction of the Southwest 86th Ave. Pump Station.

Portland Bureau of Environmental Services (BES) and Clean Water Services (CWS) are under a Mutual Agreement & Order (MAO) of December 2008 requiring that BES and Clean Water Services come to an agreement to manage the wet weather flows that emanate from the Fanno Creek Basin. CWS has limits to how much wet weather flow the existing conveyance system and Durham AWWTF can accept. Either or both of these amounts can affect how much the Fanno Creek Pump Station can bypass to CWS. The sewage is from Portland and Portland BES should be responsible for handling the sanitary sewer flow from the Portland portion of Fanno Creek basin.

DEQ standards for wastewater pumping stations require that pumping stations have the capacity to operate without overflow or bypass during the 5-year, 24-hour design storm for winter and 10-year, 24-hour design storm for summer. Recent events have shown that the existing Fanno Creek Pump Station cannot meet that requirement.

Already, as a temporary measure, the City has implemented a bypass system to allow excessive peak storm flows to go into Fanno Creek until the capital projects are implemented to permanently manage the Fanno Basin wet weather flows as identified in the MAO, namely the construction of the Southwest 86th Ave. Pump Station. Pipe capacity for the expanded pumping capacity is nearly all in place.

Therefore, we support the City's efforts to construct the Southwest 86th Ave. Pump Station and related facilities. We would like to see continued progress toward a permanent solution to sewer flows in this area and reduce this current risk to public health.

If you have any questions regarding the subject matter of this letter please contact me at (503) 229-5310.

Sincerely,

Michael Pinney PE

Senior Environmental Engineer WQ-NWR