

ORDINANCE NO. 1415-18

AN ORDINANCE RELATING TO THE ADOPTION OF A NEW PARKS SYSTEM DEVELOPMENT CHARGE METHODOLOGY; AMENDING TUALATIN MUNICIPAL CODE CHAPTER 2-6; AND CREATING NEW PROVISIONS

Whereas, on or about June 24, 1991, the City adopted Ordinance No. 833-91 to adopt a Parks System Development Charge Methodology and create a Parks System Development Charge Ordinance, as amended by Ordinance No. 1154-04 (Tualatin Municipal Code Chapter 2-6);

Whereas, the Tualatin Charter and ORS Chapter 223 authorize the City to modify the Parks System Development Charge Methodology;

Whereas, the City complied with the notice provisions of ORS 223.304(7)(a); and

Whereas, the Council held a duly-noticed Public Hearing on December 10, 2018, to consider this ordinance and the changes to the Parks System Development Charge Methodology.

THE CITY OF TUALATIN ORDAINS AS FOLLOWS:

**Section 1.** The City adopts the Park System Development Charge Methodology, as set forth in Exhibit 1, which is attached and incorporated herein.

**Section 2.** TMC 2-6-010 is amended to read as follows:

**2-6-010 Legislative Findings.**

The Council of the City of Tualatin finds, determines and declares that:

(1) Section 4 of the City Charter of 1967 as amended, grants the City authority to impose Systems Development Charges (SDC) to equitably spread the cost of essential capital improvements to new development.

(2) Given the mobility of the population and the geographic size of the City, most capital improvement projects benefit new development regardless of where in the City it occurs. The entire community's health may be affected if adequately sized water services, public parks and recreation areas and other capital improvements are not provided in all locations of the City and its environs. Development is occurring throughout the entire City and no single area of the City is experiencing such a high level of new development activity to require SDC revenue from development in one area be dedicated to that same area. It is more cost efficient to use SDC revenue from new development in the entire community to finance the growth related portion of capital improvements based upon a City-wide priority rather than to hold the SDC revenue generated in one area of the community for improvements just in that area.

(3) The imposition of connection fees is one of the preferred methods of ensuring that development bears a proportionate share of the cost of capital facilities necessary to accommodate such development. This must be done in order to promote and protect the public health, safety and welfare.

(4) The report entitled, "Report of Water Supply System Improvements Through a Systems Development Charge for the City of Tualatin," dated June 24, 1991, and prepared by the Engineering and Building Department of the City, ("Water SDC Methodology") sets forth a reasonable methodology and analysis for the determination of the impact of new development on the need and costs for additional water system improvements.

~~(5) The report entitled "City of Tualatin Findings to Support Systems Development Charges for Parks and Recreation," dated June 24, 1991, and prepared by Ray Bartlett at the request of the Parks and Recreation Department ("Parks SDC Methodology") sets forth a reasonable methodology and analysis for the determination of the impact of new development on the need and costs for additional parkland and related recreational improvements. The report entitled "Park System Development Charge Methodology," for the City of Tualatin, adopted December 10, 2018 as prepared by Community Attributes Inc. establishes the methodology and analysis for the determination of the impact of new development on the need and costs for additional parkland and related improvements.~~

(6) Whenever the City Council has authorized an intergovernmental agreement which requires the City to impose an SDC, the City Council may, by resolution, approve the methodology, impose the charge and thereafter the City may collect and expend the revenue as though the same were City capital improvements and funds as provided in this ordinance or any future amendment.

(7) The systems development charges established in this section are intended to be charges upon the act of development by whomever seeks the permit. Such charges are fees for service because they contemplate a development's receipt of essential municipal services based upon the nature of that development. The timing and extent of any development are within the control and discretion of the developer.

(8) The SDC imposed by this ordinance is not intended to be a tax on property or on a property owner as a direct consequence of ownership of property within the meaning of Section 11b, Article XI of the Oregon Constitution or the legislation implementing that section.

(9) Even if the SDC imposed is viewed under Section 11b, Article XI of the Oregon Constitution as a tax against property or against a property owner as a direct consequence of ownership of that property, it is an incurred charge within the meaning of that section and the statutes implementing it because:

(a) It allows the owner to control the quantity of the service by determining the extent of development to occur upon the property.

(b) It allows the owner to determine when the service is to be initiated or increased by controlling when the development occurs.

(c) State law and the ordinances of this City require the owner to provide certain basic utility and infrastructure services to the property when it is developed for human occupancy. The provision of these basic services are a routine obligation of the owner of the affected property and essential to the health and safety of the community.

(10) Among the basic services which the City is required to provide its residents are the capital improvements as defined in this ordinance.

(11) The SDC imposed by this ordinance is based upon the costs of providing existing or planned for capital improvements and does not impose charges on persons not receiving a service and imposing a burden upon the City's existing capital improvements.

(12) Where this ordinance or the methodology used to establish a SDC permits a credit to be given for the dedication to or for the benefit of the public of a portion of the permittee's property or the property of another which is obtained by the permittee, such credit provides reasonable compensation to the permittee and thus assists in avoiding disputes over the acquisition of such property.

(13) Because water system improvements contemplated as part of the City's capital improvement plan include a C level reservoir, and storage capacity within the system can be moved between and among the City's water service levels as needed, increased capacity at one service level improves the capacity of the system and, therefore, the systems development charge imposed under Ordinance 796-90 is intended to be collected as part of a systems development charge for water system improvements within the City. Those persons who have previously paid the charge imposed under Ordinance 796-90 and who would be subject to the payment of SDC's under this ordinance shall be eligible for credit against the water system development charge.

**Section 3.** TMC 2-6-050 is amended to read as follows:

**2-6-050 Definitions.**

For purposes of this ordinance ~~Chapter~~ unless the context clearly indicates a different meaning, the following definitions apply:

(1) "Bike Path" means a bikeway physically separated from motorized vehicular traffic by an open space or barrier and either within the public street right-of-way or within an independent right-of-way or easement.

(2) "City Manager" means the person appointed by the City Council as the City Manager or the City employee or employees whom the City Manager may designate to carry out the administration of this ordinance.

(3) "Capital Improvements" means public facilities or assets used for any of the following:

(a) Water supply; including but not limited to, treatment, storage, pumping and distribution;

(b) ~~Parks and recreation, including but not limited to area parks, community parks, greenways, bikeways operated and maintained by the City and other parks and recreational facilities~~ Parks and recreation, including, but not limited to parks, natural areas, greenways, and facilities managed, operated, and/or maintained by the City;

(c) Sanitary sewers, including collection and transmission;

(d) Storm sewers, including drainage and flood control; and

(e) Transportation; including but not limited to streets, traffic control devices, illumination, sidewalks and associated landscaping improvements, and parking.

(4) "Development" means conducting a building or mining operation, making a physical change in the use or appearance of a structure or land, dividing land into two or more parcels, including partitions and subdivisions, and creating, relocating, enlarging or terminating a right or location of access, which increases the usage of capital improvements or which creates the need for additional capital improvements.

(5) "Housing Unit" means a habitable structure containing one or more rooms designed for occupancy by one individual or family and not having more than one cooking facility consisting of at least a sink, refrigerator, and range.

(6) "Improvement Fee" means a fee for costs associated with capital improvements to be constructed after the date the fee established by this ordinance is adopted. This term shall have the same meaning as the term "improvement fee" as used in ORS 223.297 through 223.314.

(7) "Land area" means the area of a parcel of land as measured by projection of the parcel boundaries upon a horizontal plane to the edge of the existing right-of-way or easement subject to a servitude for a public street or greenway, public river bed or stream bed or other approved public scenic or preservation purpose. Measurement of land area shall be figured on gross acreage prior to dedication of property for public right-of-way or easements which may be required or may occur in connection with development.

(8) "Owner" means the owner or owners of record title or the purchaser or purchasers under a recorded sales agreement and other persons having an interest of record in the described real property.

(9) "Parcel of Land" means a lot, parcel, block or other tract of land that is occupied or may be occupied by a structure or structures or other legal use, and that includes the yards and other open spaces required under the Tualatin Development Code, subdivision ordinance, or related City ordinances or regulations.

(10) "Qualified Public Improvements" means a capital improvement that is required as a condition of development approval, identified in the plan and list adopted pursuant to ORS 223.309 and either:

(a) Not located on or contiguous to property that is the subject of development approval; or

(b) Located in whole or in part on or contiguous to property that is the subject of development approval and required to be built larger or with greater capacity than is necessary for the particular development project to which the improvement fee is related.

(11) "Reimbursement Fee" means a fee for costs associated with capital improvements constructed or under construction on the date the fee established by this ordinance becomes effective. This term shall have the same meaning as the term "reimbursement fee" as used in ORS 223.297 through 223.314.

(12) "Systems Development Charge" or "SDC" means an improvement fee, reimbursement fee or a combination assessed or collected at any of the times specified under TMC 2-6-100. It shall also include that portion of a connection charge that is greater than the amount necessary to reimburse the City for its average cost of inspecting and installing connections with water facilities.

**Section 4.** TMC 2-6-060 is amended to read as follows:

(1) Unless otherwise exempted by this ordinance or other local or state law, ~~effective July 1, 1991, a Park System Development Charge shall be established, based upon the Parks SDC Methodology adopted in TMC 2-6-010(5) and as set forth in the Parks SDC Methodology, which is adopted attached and incorporated into this ordinance, and the SDC improvement fee per housing unit set forth on Table 3.1, Option 1, is imposed upon all new development within the City. The Parks SDC charge imposed will be the amount as established may be revised~~ by resolution of the Council.

(2) Unless otherwise exempted by this ordinance or other local or state law, a Water System Development Charge in the amount of \$2,758 per future meter equivalent (FME) is established, as more specifically set forth in the Water SDC Methodology approved on December 8, 2003, which is attached and incorporated into this ordinance, and is imposed upon all new development within the City. The charge may be revised by resolution of the Council.

(3) Systems development charges for each type of capital improvement provided by the City may be created and shall be established by resolution of the Council. When required by Council resolution or Council-authorized intergovernmental agreement to collect, a systems development charge for a capital improvement provided by another government shall be established and may be revised by resolution of the Council.

(4) On February 1, 2005 and each February 1st thereafter, the water SDC shall automatically increase. The amount of increase shall be the change in Engineering News Record Construction Cost Index for Seattle, Washington. This increase shall not require further action by the City Council.

**Section 5.** TMC 2-6-120 (Credits) is amended to read as follows:

**2-6-120 Credits**

(1) As used in this section and in the definition of "qualified public improvements" in TMC 2-6-050 the word "contiguous" means: in a public way which abuts.

(2) When development occurs that must pay a system development charge under TMC 2-6-060, the system development charge for the existing use shall be calculated and if it is less than the system development charge for the proposed use, the difference between the system development charge for the existing use and the system development charge for the proposed use shall be the system development charge required under TMC 2-6-060. If the change in use results in the system development charge for the proposed use being less than the system development charge for the existing use, no system development charge shall be required; however, no refund or credit shall be given.

(3) The limitations on the use of credits contained in this subsection shall not apply when credits are provided under subsections (4) or (13) of this section. A credit shall be given for the cost of a qualified public improvement associated with a development. If a qualified public improvement is located partially on and partially off the parcel of land that is the subject of the approval, the credit shall be given only for the cost of the portion of the improvement not located on or wholly contiguous to the parcel of land. The credit provided for by this subsection shall be only for the improvement fee component of a systems development charge imposed for the type of improvement being constructed and shall not exceed such improvement fee even if the cost of the capital improvement exceeds the applicable improvement fee.

(4) When establishing or adopting the methodology, the City Council may provide for a credit against the public improvement charge, the reimbursement fee, or both, for a capital improvement constructed or provided as part of the development that reduces the development's demand upon existing capital improvements or the need for future capital improvements or that would otherwise have to be constructed at City expense under the then-existing Council policies.

(5) When a capital improvement for which a credit is applied is a part or a phase of a larger project, such as a subdivision or partition, credits against a systems development charge may be assigned to other parts of the larger project, provided they apply only to

that property subject to the original condition for development approval upon which the credit is based. Credits shall not otherwise be transferable from one development to another.

(6) When development occurs which must pay a system development charge under TMC 2-6-060 constructs a qualified public improvement or other qualifying project, such that a credit against all or a portion of a system development charge is available, the developer shall be entitled to either the credit or to entering into a recovery agreement with the City to the effect that future property owners who directly benefit from the qualified public improvement must reimburse the developer who constructed such improvements a proportionate part of the construction cost. The developer shall not be entitled to both the credit and a recovery agreement.

(7) The amount of any credit attributable to improvements may be based upon construction contract documents, together with construction invoices or other appropriate information, provided by the applicant for the credit. The applicant shall have the burden of establishing the cost of improvements. Should the City Manager determine the contract amounts exceed prevailing market rates for a similar project, the credit shall be based upon market rates. No more than 13.5% of the total eligible construction cost shall be creditable for survey, engineering and inspection. Except as otherwise provided in subsection (11) of this section, the improvements shall be constructed in accordance with City standards and accepted by the City prior to the issuance of any credits.

(8) The amount of any credit shall be determined by the City Manager. A form shall be provided for acknowledging the amount of any credit with the original to be retained by the City Manager. The credit shall state a dollar amount that may be applied against a specific type of SDC imposed against the subject property. In no event shall a subject property be entitled to redeem credits in excess of the particular SDC imposed. Upon written application to the City Manager credits may be reapportioned from any lot or parcel to any other lot or parcel within the confines of the property originally eligible for the credit. Reapportionment shall be noted on the original credit form retained by the City.

(9) Credits shall only apply against the particular SDC for which they were allowed, are limited to the amount of the SDC attributable to the development of the specific lot or parcel for which the credit is sought, and shall not be a basis for any refund. Credit shall not be transferable from one type of capital improvement to another.

(10) Except as provided in subsection (11) of this section, any credit must be submitted not later than the issuance of the building permit. The applicant is responsible for presentation of any credit and no credit shall be considered after issuance of a building permit. Credits shall not be allowed more than seven years after the acceptance of the applicable improvement, dedication or grant by the appropriate party. No extension of this deadline shall be granted.

(11) An application for credit may be submitted before completion of a qualified public improvement or other activity for which a credit is allowed, subject to the following conditions:

(a) The applicant shall secure payment of the full amount of the particular SDC for which a credit is sought in accordance with TMC 2-6-100.

(b) Except for completion of the qualified public improvement in advance of the receipt of any credit or the payment of a particular SDC, the applicant shall otherwise comply with and be subject to the limitations of TMC 2-6-120.

(c) Any funds which are placed on deposit with the City, together with accrued interest, or any other security which is given to assure payment of the SDC, shall be eligible for return to the applicant or the applicant's assignee upon completion and acceptance of the qualified public improvement or other qualifying activity, subject to the terms of any agreement between the City and the applicant.

(d) Notwithstanding the allowance of credits for qualified public improvements constructed within the preceding seven years, the improvements for which credit is allowed under this subsection shall be completed and accepted within two years of application for credit.

(e) Nothing contained in this ordinance shall be construed as limiting the authority of the City to enter into agreements or to receive and accept deposits or other security in connection with conditions placed on development approval.

(12) Those persons who have paid a fee to the City pursuant to Ordinance 796-90 or their assignees are eligible for a credit against the improvement fee component, but not the reimbursement fee component of the water system development charge established under TMC 2-6-060(2), up to the amount of the fee previously paid.

(13) In addition to the limitations on the availability of credits outlined in this section, a credit against the SDC established by TMC 2-6-060(1) shall be provided, subject to the following limitations and procedures:

(a) The amount of credit attributable to dedication of property to the City ~~or a qualifying conveyance to a resource management organization~~ shall be based upon the fair market value of the land. A recent determination of market value, prepared by the County Assessor or the County Board of Equalization and adjusted for the portion being dedicated, may be considered competent evidence of market value. In addition to or in lieu of other evidence of market value, the City may require an independent appraisal of the property, based on the highest and best use, by a qualified appraiser, who shall be paid for by the applicant. The City Manager may consider other relevant evidence of market value. The method of determining the amount of credit available for structures eligible for credit under subsections (c), ~~(d)~~, and ~~(e)~~ shall be as provided in TMC 2-6-120(7).



(b) As used in this subsection only, "dedication" means the conveyance of title or substantially all interests in property to the City for the benefit of the public and shall be distinguished from the grant of an easement or other limited possessory interest in property. No credit shall be allowed unless the City approves the form of and accepts the dedication. Nothing contained herein shall be construed as requiring the City to accept a dedication which is not in the City's best interest.

~~(c) Areas within greenways, the riverbank protection district, and creek corridors, which are identified in TDC Chapter 72 of the Tualatin Development Code and the City of Tualatin Parks and Recreation Master Plan, may be deeded or dedicated to the City and thereby become eligible for credit. Such conveyance must be provided in fulfillment of and be consistent with conditions placed on a development approval. The City may grant a credit against the Parks System Development Charge imposed pursuant to TMC 2-6-060(1) for either or both:~~

- ~~(i) the of transfer of land to the City for any qualified public improvement; or~~
- ~~(ii) the construction of any qualified public improvement.~~

The transfer of land, as provided in this subsection, includes the conveyance of all, or portions, of an interest in land, including easements. The value of the credit provided cannot exceed the fair market value of the interest in land, or portion thereof, conveyed.

~~(d) Pedestrian and bike path improvements are eligible for credits, subject to the following requirements: bike and pedestrian path improvements must be at ultimate alignment, line and grade, must be provided in fulfillment of conditions placed on a development approval and must be identified within TDC Chapter 11. Such bike path improvements shall not function as access to a private street or driveway.~~

~~(e) Natural areas which are specifically identified and included on the Parks Capital Improvement List, Option 1, selected by the Council as part of the Parks SDG methodology may be deeded or dedicated to the City or with the approval of the City, granted to and accepted by a resource management organization qualified under Section 501(c)(3) of the Internal Revenue Code and thereby become eligible for a credit. A structure within a public access easement in a Natural Area may be accepted by the City in lieu of a dedication of real property. Nothing contained in this subsection shall be construed as requiring the City to accept a conveyance which is not in the City's best interest.~~

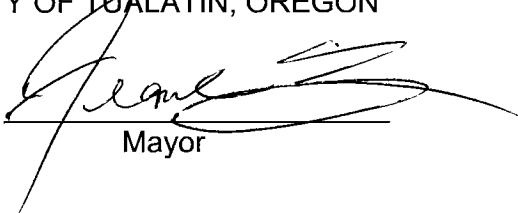
**Section 6. Current SDC Fees Remain Unchanged and Indexed.** The Parks System Development Charge fee currently in effect as of the date of this ordinance, and as indexed according to TMC 2-6-085, will remain in effect until July 1, 2019, unless the Council takes action sooner to adopt a new Parks System Development Charge fee by resolution, as provided in TMC 2-6-060, and as amended by Section 3 of this ordinance.

**Section 7. Severability.** Each section of this ordinance, and any part thereof is severable. If any part of this ordinance is held invalid by a court of competent jurisdiction, the remainder of this ordinance remains in full force and effect.

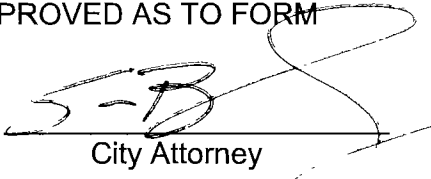
**Section 8. Effective Date.** As provided in the Tualatin Charter, this ordinance is effective 30 days from the date of adoption.

ADOPTED by the City Council this 14<sup>th</sup> day of January, 2019.

CITY OF TUALATIN, OREGON

BY   
Mayor

APPROVED AS TO FORM

BY   
City Attorney

ATTEST:

BY   
City Recorder

# Park System Development Charge Methodology

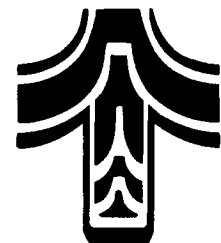
City of Tualatin

December 10, 2018

Prepared by:



Prepared for:



*City of Tualatin*



*Community Attributes Inc. tells data-rich stories about communities  
that are important to decision makers.*

**President & CEO**  
Chris Mefford

**Analysts**  
Michaela Jellicoe, Project Manager  
Kristina Gallant  
Mark Goodman

Community Attributes Inc.  
500 Union Street, Suite 200  
Seattle, Washington 98101

[www.communityattributes.com](http://www.communityattributes.com)

## CONTENTS

|  |    |
|--|----|
| 1. Introduction.....   | 1  |
| 2. Statutory Basis and Methodology .....   | 4  |
| 3. Growth Estimates.....   | 10 |
| 4. Park System Development Charges .....   | 12 |
| Appendix A. Equivalent Population Coefficients .....                               | 19 |
| Appendix B. Inventory of Existing Parks .....                                      | 24 |
| Appendix C. Capital Improvements Plan and Projects that Add Capacity, 2018-2035 .. | 26 |
| Appendix D. Observed Building Densities.....                                       | 30 |

*This page was intentionally left blank.*

## 1. INTRODUCTION

The purpose of this methodology is to establish the maximum allowable rates for system development charges (SDCs) in the City of Tualatin, Oregon for parks, open space and recreation facilities as authorized by ORS 223.297 to 223.314.<sup>1</sup> Throughout this methodology the term “parks” is used as a short name referring to parks, open space and recreation facilities, including land and developments.

The Tualatin City Council discussed options for developing rates for different types of residential and nonresidential development at the September 10, 2018 work session. While the City Council decided to move forward with public review of the original methodology with rates for residential and nonresidential development that do not distinguish between more detailed development types, City staff thought it advantageous to prepare an alternative methodology with rates that differentiate between more types of both residential and nonresidential development to help inform decision-making.

This methodology provides the maximum allowable rates for two types of residential development and four types of nonresidential development. Key differences in this methodology are contained in Formula 7 and Exhibit 11 as well as Appendix A, which describe how equivalent population coefficients are developed for each development type based on the persons per dwelling unit or square feet per unit by type of development.

### Summary of System Development Charges

System development charges are one-time fees charged to new development to help pay a portion of the costs required to build capital facilities needed to serve new development.

Parks SDCs are paid by all types of new development. SDC rates for new development are based on and vary according to the type of development. The following table summarizes the maximum allowable SDC rates for each type of development.

---

<sup>1</sup> Oregon Revised Statute (ORS) is the state law of the State of Oregon.

### Exhibit 1. City of Tualatin Maximum Allowable System Development Charge Rates

| Type of Development           | SDC per Unit of Development |
|-------------------------------|-----------------------------|
| Residential                   |                             |
| Single-Family                 | \$15,409 dwelling unit      |
| Multi-Family                  | \$11,486 dwelling unit      |
| Nonresidential                |                             |
| Industrial/Manufacturing      | \$3.88 square foot          |
| Warehousing                   | \$0.98 square foot          |
| Retail/Restaurant/Hospitality | \$3.79 square foot          |
| Office*                       | \$3.13 square foot          |

*\*Office includes healthcare, education, finance and professional services development.*

## System Development Charges vs. Other Developer Contributions

System Development Charges are charges paid by new development to reimburse local governments for the capital cost of public facilities that are needed to serve new development and the people who occupy or use the new development. Throughout the methodology, the term “developer” is used as a shorthand expression to describe anyone who is obligated to pay SDCs, including builders, owners or developers.

Local governments charge SDCs for several reasons: 1) to obtain revenue to pay for some of the cost of new public facilities; 2) to implement a public policy that new development should pay a portion of the cost of facilities that it requires, and that existing development should not pay the entire cost of such facilities; and 3) to ensure that adequate public facilities will be constructed to serve new development.

The SDCs that are described in this study do not include any other forms of developer contributions or exactions for parks facilities to serve growth.

## Organization of the Methodology

This SDC Methodology contains four chapters:

- **Introduction:** provides a summary of the maximum allowable SDC rates for development categories and other introductory materials.
- **Statutory Basis and Methodology:** summarizes the statutory requirements for development of SDCs and describes the compliance with each requirement.
- **Growth Estimates:** presents estimates of population and employment in Tualatin because SDCs are paid by growth to offset the



cost of parks, open space and recreation facilities that will be needed to serve new development.

- **Park System Development Charges:** presents the maximum allowable SDCs for parks in the City of Tualatin. The chapter includes the methodology that is used to develop the maximum allowable charges, the formulas, variables and data that are the basis for the charges, and the calculation of the maximum allowable charges. The methodology is designed to comply with the requirements of Oregon state law.

## 2. STATUTORY BASIS AND METHODOLOGY

The source of authority for the adoption of SDCs is found both in state statute and the City's own plenary authority to adopt this type of fee. This chapter summarizes the statutory requirements for SDCs in the State of Oregon and describes how the City of Tualatin's SDCs comply with the statutory requirements.

### Statutory Requirements for System Development Charges

The Oregon Systems Development Act, passed in 1989, authorizes local governments in Oregon to charge SDCs. ORS 223.297 to 223.314 contain the provisions that authorize and describe the requirements for SDCs.

The following synopsis of the most significant requirements of the law include citations to Oregon Revised Statutes as an aid to readers who wish to review the exact language of the statutes.

#### *Types of Capital Improvements*

SDCs may only be used for capital improvements. Five types of capital improvements can be the subject of SDCs: 1) water supply, treatment and distribution; 2) waste water collection, transmission, treatment and disposal; 3) drainage and flood control; 4) transportation; and 5) parks and recreation. Capital improvements do not include the costs of the operation or routine maintenance of the improvements. Any capital improvements funded with SDCs must be included in the capital improvement plan adopted by the local government. *ORS 223.297, ORS 223.299 and ORS 223.307 (4)*

#### *Types of System Development Charges*

SDCs can include reimbursement fees, improvement fees or a combination of the two. An improvement fee may only be spent on capacity-increasing capital improvements identified in the Capital Improvement Plan. A reimbursement fee may be charged for the costs of existing capacity if there is "excess capacity" identified in the methodology. *ORS 223.299*

#### **Improvement Fee Methodology Requirements**

There are several requirements for an improvement fee methodology, as established in ORS 223.304. In order to establish or modify an improvement fee, an ordinance or resolution must be passed with a methodology that is publicly available and considers both the projected cost of capital improvements included in the plan related to the fee and the need for increased capacity to serve future users.

### **Reimbursement Fee Methodology Requirements**

There are several requirements for a reimbursement fee methodology, also established in ORS 223.304. The methodology establishing or modifying a reimbursement fee must be passed by ordinance or resolution. The methodology must consider ratemaking principles, prior contributions by existing users, gifts or grants received and the value of unused capacity available to future users.

### *Prohibited Methodologies*

Local governments may not base SDC charges to employers on the number of individuals hired by the employer after a specified date. In addition, the methodology cannot assume that costs for capital improvements are necessarily incurred when an employer hires an additional employee. Fee amounts cannot be determined based on the number of employees without regard to new construction, new development or new use of an existing structure by the employer. *ORS 223.301*

### *Authorized Expenditures*

Authorized uses for SDC revenues depend on whether the revenues were collected as reimbursement fees or improvement fees. Reimbursement fees may only be used for capital improvements associated with the systems for which the fees are assessed, including repaying associated debts. Improvement fees may only be used for capacity increasing capital improvements associated with the systems for which the fees are assessed, including repaying associated debts. Regardless of the type of fee, SDC revenue may be used to cover the costs of complying with SDC regulations, including the cost of developing SDC methodologies and annual accounting of expenditures. *ORS 223.307 (1), (2), (3) and (5)*

SDCs may not be used to build administrative facilities that are “more than an incidental part” of allowed capital improvements, or for any facility operation or maintenance costs. *ORS 223.307 (2)*

### *Benefit to Development*

The share of capital improvements funded by improvement fees must be related to the need for increased capacity to serve future users. Improvement fees must be based on the need for increased capacity to serve growth and must be calculated to collect the cost of capital improvements needed to serve growth. *ORS 223.307 (2) and ORS 223.304 (2)*.

### *Reductions of System Development Charge Amounts*

The impact fee ordinance or resolution must allow for a credit for constructing qualified public improvements. Qualified public improvements

are capital improvements that are required as a condition of development approval and also identified in the plan, which are either “not located on or contiguous to property that is the subject of development approval” or “located in whole or in part on or contiguous to property that is the subject of development approval and required to be built larger or with greater capacity than is necessary for the particular project to which the improvement fee is related.” Additionally, ORS 223.304 (5) indicates that the burden of proving that the improvement exceeds the minimum standard capacity need set by the local government and that the particular improvement qualifies for a credit is the developers responsibility. *ORS 223.304 (4)*

Local governments also have the option to provide greater credits, establish a system providing for the transferability of credits, provide a credit for a capital improvement not identified in the CIP, or provide a share of the cost of the improvement by other means. Credits provided must be used in the same time frame specified in the local government’s ordinance but may not be used later than ten years from the date the credit is provided. *ORS 223.304 (5)(c) and ORS 223.304 (5)(d)*

### *Developer Options*

Local governments must establish procedures for any citizen or interested person to challenge an expenditure of SDC revenue. If anyone submits a written objection to an SDC calculation, the local government must advise them of the process to challenge the SDC calculation. *ORS 223.302 (2) and (3)*

### *Capital Improvement Plans*

All projects funded with SDC revenue must be included in the local government’s capital improvement plan before any charges can be imposed. The plan may be called a capital improvement plan, public facilities plan, master plan or other comparable plan that includes a list of capital improvements that the government intends to fund in any part with SDC revenue. The plan must include the projects’ estimated costs, timing and percentage of costs to be funded with improvement fees. The plan may be modified at any time, but if an amendment to the plan will result in increased SDCs, there are additional notification and public hearing requirements. *ORS 223.309*

### *Accounting Requirements*

All SDC revenue must be deposited in dedicated accounts. Local governments must provide annual reports on how much SDC revenue was collected and which projects received SDC funding. This must include how much was spent on each project as well as the amounts that were collected and dedicated to covering the costs of compliance with state laws. *ORS 223.311*

### *Annual Inflation Index*

Local governments may change the amount of an improvement or reimbursement SDC without making a modification of the methodology under specific circumstances. A change in the amount of the SDC is not considered a modification of the methodology if the change is based upon a change in the cost of “materials, labor or real property” applied to the projects in the CIP list. Additionally, a change in the amount of the SDC is not considered a modification of the methodology if the change is based on a periodic “specific cost index or other periodic data source.” The periodic data sources must be:

- A relevant measure of the change in prices over a specified time period for “materials, labor, real property or a combination of the three;”
- Published by a recognized organization or agency that is independent of the system development charge methodology;
- Included in the methodology or adopted by ordinance, resolution or order. *ORS 223.304 (8)*

### Compliance with Statutory Requirements for System Development Charges

Many of the statutory requirements listed above are fulfilled in the calculation of the parks system development charge in the fourth chapter of this methodology. Some of the statutory requirements are fulfilled in other ways, as described below.

#### *Types of Capital Improvements*

This methodology includes SDCs for parks capital improvements, which are one of the five types of capital improvements legally eligible for SDCs. The SDCs in this methodology are based on capital improvements that increase capacity in the parks system and the portion of capacity-increasing projects eligible for parks SDCs included and identified in the City of Tualatin’s capital improvement plan and excludes capacity increasing portions of capital improvements that City staff consider to be aspirational within the timeframe within this methodology.

#### *Types of System Development Charges*

SDCs can include reimbursement fees, improvement fees or a combination of the two. This methodology only includes improvement fees. The capital improvements identified in the City of Tualatin’s Capital Improvement Plan to be funded with improvement fees are capacity-increasing capital improvements.

The City of Tualatin’s parks SDCs are based on maintaining its existing levels of service as growth occurs. New development will receive the same

level of service or acres per equivalent person in order to maintain the same ratio as existed before the new development, and the total of those acres per person are the requirements to serve growth. By definition, the existing ratio is “used up” by the current population, so there is no unused reserve capacity that can be used to serve future population growth through reimbursement SDCs. Additionally, the City of Tualatin has determined that there is no excess capacity within the existing parks system. Therefore, the City of Tualatin has elected to only charge improvement fees, and thus this methodology will only address improvement fees.

### **Improvement Fee Methodology Requirements**

The fees calculated with this methodology consider both the projected cost of planned capital improvements and the need for increased capacity to serve future users. To address future users, a calculation was made to determine the facilities required per new residential unit and per new nonresidential square foot to maintain the current level of service. The City of Tualatin will pass an ordinance or resolution to adopt this parks improvement fee methodology.

### *Prohibited Methodologies*

SDC charges cannot be based on the number of employees without regard to new development. The City of Tualatin’s nonresidential SDC calculation is based on new nonresidential square footage rather than number of employees.

### *Authorized Expenditures*

SDC revenue can only be used for the capital cost of public facilities. SDCs cannot be used for operation or routine maintenance expenses. Improvement SDCs may only be used for capacity increasing capital improvements. They may not be used to build administrative facilities that are more than “an incidental part” of allowed capital improvements and they may not be used for any operations or maintenance costs. *ORS 223.307 (1), (2), (3) and (5)*

This methodology is based upon projects identified in the Capital Improvements Plan that increase capacity of the parks system, as identified in the fourth chapter of this methodology. The methodology does not include any administrative facilities or operations or maintenance costs.

### *Benefit to Development*

The share of capital improvements funded by improvement fees must be related to the need for increased capacity to serve future users. *ORS 223.307 (2)*. Improvement fees must be based on the need for increased capacity to serve growth and must be calculated to collect the cost of capital improvements needed to serve growth. *ORS 223.304 (2)*

The City of Tualatin's SDCs are based on the additional improvements required to serve future growth and maintain the current level of service for parks, as demonstrated in the fourth chapter of this methodology and identified in the parks CIP analysis in Appendix C.

### *Reductions of System Development Charge Amounts*

The City of Tualatin's municipal code provides for a credit for the cost of qualified public improvements associated with new development as required in ORS 223.304, as well as the provision for other credits as allowed by ORS 223.304.

### *Developer Options*

The City's municipal code establishes a process for individuals to appeal either SDC decisions or expenditures to the City Council by filing a written request with the City Manager's office.

### *Capital Improvement Plans*

The City's capital improvement plan required by State law is incorporated into this parks SDC methodology, as shown in the fourth chapter of this methodology.

### *Accounting Requirements*

The City's code stipulates that SDC revenues must be budgeted and expended in consistency with state law. Accounting requirements are met with the City's Comprehensive Annual Financial Report.

### *Annual Inflation Index*

ORS 223.304 (8) allows local governments to adjust the SDC rate without modifying the methodology under specified circumstances. The City of Tualatin adopted an annual inflation index in their municipal code in 2004 and will continue to use this inflation index.

The inflation index used by the City of Tualatin for parks SDCs is calculated by combining the "change in average market value of undeveloped residential land in the City's planning area according to the records of the Washington County Tax Assessor and the Clackamas County Tax Assessor for the prior tax year, and the change in the construction costs according to the Engineering News Record Construction Cost Index for Seattle, Washington for the prior calendar year."

## Data Sources

The data in this SDC methodology was provided by the City of Tualatin, unless a different source is specifically cited.

### 3. GROWTH ESTIMATES

System Development Charges are meant to have “growth pay for growth,” the first step in developing an SDC is to quantify future growth in the City of Tualatin. Growth estimates for the City of Tualatin’s population and employment for the planning period of 2016 to 2035 have been developed.

Exhibit 2 lists Tualatin’s residential population and growth rates from 2000 to 2016 and projections to the year 2035.

#### Exhibit 2. Population

| Year | Population | CAGR (1) | CAGR Years |
|------|------------|----------|------------|
| 2000 | 22,791     |          |            |
| 2010 | 26,054     | 1.3%     | 2000-2010  |
| 2016 | 26,840     | 0.5%     | 2010-2016  |
| 2035 | 29,950     | 0.6%     | 2016-2035  |

(1) CAGR: Compound Annual Growth Rate

(2) Population Sources:

- 2000 - 2016: City of Tualatin from Portland State University College of Urban and Public Affairs, Population Research Center, 2016.
- 2035: 2035 Forecast of Population by City and County provided by the City of Tualatin. Population forecasts include population for the Basalt Creek and Southwest Tualatin Plan Areas provided by the City of Tualatin.

In addition to residential population growth, Tualatin expects businesses to grow. Business development is included in this methodology because Tualatin’s parks and recreation system serves both its residential population and employees. City parks provide places for employees to take breaks from work, including restful breaks and/or active exercise to promote healthy living.

Exhibit 3 shows employment in Tualatin for 2010 and 2016, and projected growth for the year 2035.

#### Exhibit 3. Employment

| Year | Employment |
|------|------------|
| 2010 | 22,972     |
| 2016 | 29,506     |
| 2035 | 40,668     |

(1) Employment Sources:

- 2010 and 2035 Employment data provided by City of Tualatin, 2035 TAZ Forecast Distribution by Jurisdiction MetroScope "Gamma" Employment Forecast.
- 2016 Employment data provided by City of Tualatin staff from the State of Oregon Employment Department.
- 2035 Employment data provided by City of Tualatin staff. Estimates include employment for the Basalt Creek and Southwest Tualatin Plan Areas.



Population is expected to increase from 26,840 in 2016 to 29,950 in 2035. Employment is expected to increase from 29,506 in 2016 to 40,668 in 2035. It is clear from Exhibits 2 and 3 that Tualatin expects growth of both population and employment in the future, so there is a rational basis for park SDCs that would have future growth pay for the parks, open space and recreation facilities needed to maintain appropriate levels of service for new development.

Population and employment are both expected to grow, but they should not be counted equally because employees spend less time in Tualatin than residents, therefore they have less benefit from Tualatin’s parks. As Tualatin’s nonresidential population is assumed to have a lower demand for parks than its residential population, growth in employment is adjusted with an equivalent population coefficient. Appendix A to this study describes equivalency and explains how the “equivalent population coefficients” were developed for this methodology. The result allows nonresidential development to pay its proportionate share of parks for growth based on the “equivalent population” that nonresidential development generates.

Exhibit 4 multiplies the equivalent population coefficients (from Appendix A) by the actual population and employment data from Exhibits 2 and 3 to calculate the “equivalent” population for the base year (2016) and the horizon year (2035) and the growth between 2016 and 2035. Based on the calculations provided in Appendix A, one employee or one member of the nonresidential population is equivalent to 0.34 members of the residential population in terms of demand for parks facilities.

**Exhibit 4. Growth of Equivalent Population and Employment**

|                           | Equivalent<br>Population<br>Coefficient<br>(1) | 2016 Base<br>Year Full<br>Population<br>(2) | 2016 Base<br>Year<br>Equivalent<br>Population (3) | 2035 Horizon<br>Year Full<br>Population<br>(2) | 2035 Horizon<br>Year<br>Equivalent<br>Population (3) | 2016-2035<br>Growth Full<br>Population<br>(4) | 2016-2035<br>Growth<br>Equivalent<br>Population (5) |
|---------------------------|--|---|---|--|--|---|---|
| Residential Population    | 1.00   | 26,840                                      | 26,840  | 29,950   | 29,950   | 3,110   | 3,110   |
| Nonresidential Population | 0.34   | 29,506                                      | 10,130  | 40,668   | 13,962   | 11,162  | 3,832   |
| <b>Total</b>              | <b>N/A</b>                                     | <b>N/A</b>                                  | <b>36,970</b>                                     | <b>N/A</b>                                     | <b>43,912</b>  | <b>N/A</b>                                    | <b>6,942</b>  |

- (1) From Appendix A Equivalent Population Coefficients.
- (2) Sources: Exhibits 2 and 3.
- (3) Equivalent Population = Equivalent Population Coefficient x Full Population.
- (4) 2016-2035 Growth Full Population = 2035 Full Population – 2016 Full Population.
- (5) 2016-2035 Growth Equivalent Population = 2035 Equivalent Population – 2016 Equivalent Population.

The totals in Exhibit 4 provide the equivalent population for the purpose of development of park SDCs for Tualatin. The total equivalent population for the base year (2016) is 36,970 and the horizon year (2035) is 43,912, therefore equivalent population growth between 2016 and 2035 is 6,942.

## 4. PARK SYSTEM DEVELOPMENT CHARGES

### Overview

System development charges for Tualatin’s parks, recreation facilities and open space use an inventory of the City’s existing parks acreage and current equivalent population to determine the current level of service ratio for parks. The current level of service ratio is multiplied by the projected equivalent population growth to estimate the acres of parks needed to serve growth at the current level of service and is compared to the number of acres to be acquired in the Capital Improvements Plan (CIP) to ensure sufficient projects are planned to serve growth. The cost of park acquisition and development is divided by the number of acres to be acquired or improved to establish the cost per acre for parks. Multiplying the park cost per equivalent population by the current level of service ratio results in the cost per equivalent population that can be charged as SDCs. The amount of the cost per equivalent population is adjusted by the value of the remaining park SDC fund balance, estimated compliance costs and any other sources of available funding to arrive at the net cost per equivalent population. The amount of the maximum allowable SDC is determined by multiplying the net cost per equivalent population by the equivalent population per unit for each type of development.

These steps are described below in the formulas, descriptions of variables, exhibits and explanation of calculations of parks system development charges. Throughout the chapter the term “person” is used as the short name that means equivalent population or equivalent person.

### Formula 1: Parks Level of Service Ratio

The current level of service ratio is calculated by dividing Tualatin’s existing parks acreage by its total current equivalent population.

$$(1) \frac{\text{Existing Acres of Parks}}{\text{Current Equivalent Population}} = \text{Current Level of Service Ratio}$$

Equivalent population was described in the third chapter of this methodology and explained in the Appendix. There is one new variable that requires explanation: (A) Existing Acres of Parks.

#### *Variable (A): Existing Acres of Parks*

The acreage of each of Tualatin’s parks is listed in Appendix B. The total existing parks acreage includes all existing facilities in the following categories: Parks, Greenways, Natural Parks & Areas, School Joint-Use Facilities and Shared Use Paths. Appendix B additionally includes a total of the acreage for each park and the subtotal by category.

The total existing inventory of parks in the City of Tualatin is 316.14 acres of parks and recreation facilities (from Exhibit B1). Exhibit 5 lists the total existing inventory of parks and divides it by the current equivalent population of 36,970 (from Exhibit 4, divided by 1,000) to calculate the current level of service ratio of 8.55 acres of parks per 1,000 equivalent population.

**Exhibit 5. Level of Service Ratio**

| Inventory      | Current Equivalent Pop | Level of Service Ratio     |
|----------------|------------------------|----------------------------|
| 316.14 acres ÷ | 36,970                 | = 8.55 acres per 1,000 pop |

**Formula 2: Park Needs for Growth**

The park needs for growth is calculated to ensure that Tualatin plans to acquire enough land to provide new growth with the same level of service ratio that benefits the current population. The acres of parks needed for growth are calculated by multiplying the level of service ratio by the equivalent population growth from 2016 to 2035 (divided by 1,000).

$$(2) \text{ Current Level of Service Ratio} \times \text{Equivalent Population Growth} = \text{Park Acres Needed for Growth}$$

There are no new variables used in Formula 2. Both variables were developed in previous formulas and exhibits.

Exhibit 6 shows the calculation of the acres of parks needed for growth. The current level of service ratio is calculated in Exhibit 5. The growth in equivalent population is calculated in Exhibit 4. The result is that Tualatin needs to add 59.36 acres of parks in order to serve the growth of 6,942 additional people who are expected to be added to the City’s existing equivalent population.

The number of acres in the Capital Improvements Plan must equal or exceed the number of acres needed for growth in order to provide at least the amount for which growth is being asked to pay SDCs. If the CIP amounts are greater than the amount needed for growth, the City pays for the additional amounts, and growth pays only for the amount that it needs.

**Exhibit 6. Park Land Needs for Growth**

| Level of Service Ratio     | 2016-2035 Growth | Additional Acres Needed for Growth | Additional Acres in CIP |
|----------------------------|------------------|------------------------------------|-------------------------|
| 8.55 acres per 1,000 pop x | 6,942            | = 59.36                            | 64.73                   |

### Formula 3: SDC Eligible Park Cost per Acre

The SDC eligible cost per acre of park land and improvements is the cost basis for the SDC. The cost per acre of park land and development is calculated by dividing the cost of eligible proposed park acquisitions and improvements by the number of acres to be acquired and developed in the Capital Improvements Plan.

$$(3) \frac{\text{Cost of Park Acquisition and Development}}{\text{Acres to be Acquired and Improved}} = \frac{\text{Park Cost}}{\text{per Acre}}$$

There are two new variables used in Formula 3 that require explanation: (B) Cost of Park Acquisition and Development and (C) Acres to be Acquired and Improved.

#### *Variable B: Cost of Park Acquisition and Development*

The park SDCs are based on the costs from the City's plans for future parks listed in Appendix C. Exhibit 7 details the total SDC eligible planned cost of park acquisition in the Parks Capital Improvement Plan, as well as the total SDC eligible cost of planned park improvements.

#### *Variable C: Acres to be Acquired and Improved*

The SDC eligible acres to be acquired and improved are from the same SDC eligible projects listed in Appendix C. Exhibit 7 details the total SDC eligible planned park acres to be acquired and the total SDC eligible planned park acres to be improved.

Exhibit 7 shows the calculation for the SDC eligible cost per acre of park land and improvements. The total SDC eligible cost of land acquisition and improvements (from Exhibit C1) is divided by the number of SDC eligible acres to be acquired or improved (from Exhibit C1) resulting in the park cost per acre. The result is that the City plans to invest a weighted average of \$649,003 per acre in SDC eligible parks acquisition and development.

**Exhibit 7. Park SDC Eligible Cost per Acre**

| Type             | Eligible Cost       | Acres  |   | Cost per Acre    |
|------------------|---------------------|--------|---|------------------|
| Land Acquisition | \$16,012,500 ÷      | 64.73  | = | \$247,374        |
| Improvements     | \$58,029,748 ÷      | 144.49 | = | \$401,629        |
| <b>Total</b>     | <b>\$74,042,248</b> |        |   | <b>\$649,003</b> |

### Formula 4: SDC Eligible Park Cost per Person

The SDC eligible cost of parks per person is needed for calculating the SDC rate. The cost per person of future park acquisition and development is calculated by multiplying the park cost per acre by the current level of service ratio.

$$(4) \frac{\text{Park Cost per Acre}}{\text{Service Ratio}} \times \text{Current Level of} = \frac{\text{Park Cost per Person}}{\text{Person}}$$

There are no new variables in Formula 4.

Exhibit 8 shows the calculation of the park cost per person. The park cost per acre (from Exhibit 7) is multiplied by the current level of service ratio (from Exhibit 5). The result is the cost per 1,000 population, which is divided by 1,000 to establish the cost per person. With growth maintaining the current level of service ratio of 8.55 acres per 1,000 equivalent population, multiplied by the SDC eligible cost per acre of \$649,003, the cost basis for the park SDC is \$5,550 per equivalent person.

**Exhibit 8. Park Cost per Equivalent Person**

| Cost per Acre | Level of Service | Cost per 1,000 Population | Cost per Equivalent Population |
|---------------|------------------|---------------------------|--------------------------------|
| \$649,003     | x 8.55           | = \$5,549,855             | \$5,550                        |

### Formula 5: Adjustment per Person

The adjustment per person is needed to calculate the net cost per person in Formula 6, and is required to account for compliance costs, the current SDC fund balance and other sources of funding. The adjustment per equivalent population is calculated by adding the compliance costs, fund balance and adjustment for other revenue together to arrive at a total adjustment divided by equivalent population growth.

$$(5) \left( \frac{\text{Compliance Costs} + \text{Fund Balance} + \text{Other Revenue}}{\text{Equivalent Population Growth}} \right) = \frac{\text{Adjustment per Person}}{\text{Person}}$$

There are three new variables in Formula 5 that require explanation: (D) Compliance Cost, (E) Fund Balance, (F) Other Revenue.

#### *Variable D: Compliance Cost*

The City of Tualatin is authorized under ORS 223.307 (5) to recoup a portion of the costs incurred for the development and administration of the SDCs. The SDC methodology developed by the City of Tualatin in 1991 estimated compliance costs at 1.2% of total SDC eligible costs. Using this same 1.2% for compliance costs, compliance costs for the 2035 time horizon are estimated at \$462,322. Compliance costs are estimated by multiplying the cost per person from Exhibit 8 by the equivalent population growth from Exhibit 4 and by the 1.2% estimated for compliance costs.

### *Variable E: Fund Balance*

Additionally, the City of Tualatin has a remaining fund balance in the existing SDC account which will be used to pay for the park capital facilities needed to serve new development. This fund balance as reported by the City of Tualatin is \$270,000.

### *Variable F: Other Revenue*

The adjustment per person also must include any other sources of revenue that will be used for parks capital facilities needed to serve new growth. The City of Tualatin has no identified sources of secured funding for parks capital facilities projects to serve growth in the Capital Improvement Plan.

Exhibit 9 shows the calculation for the adjustment per person. Compliance costs, the existing SDC fund balance and other sources of revenue are summed together to arrive at a total adjustment of \$192,322. This total adjustment is divided by the equivalent population growth (from Exhibit 4) of 6,942. The resulting adjustment per person is \$28.

#### **Exhibit 9. Adjustment per Equivalent Person**

|                      | <b>Adjustment</b> | <b>2016-2035<br/>Growth</b> | <b>Adjustment per<br/>Equivalent<br/>Population</b> |
|----------------------|-------------------|-----------------------------|---|
| Compliance costs (1) | \$462,322         |                             |   |
| Fund Balance (2)     | (\$270,000)       |                             |   |
| Other Revenue (3)    | \$0               |                             |   |
| <b>Total</b>         | <b>\$192,322</b>  | <b>÷ 6,942</b>              | <b>= \$28</b>                                       |

(1) Compliance costs are calculated using a 1.2% compliance costs to total eligible cost to serve growth (cost per person x 2016-2035 growth).

(2) Fund balance for the fiscal year 2018/19 provided by the City of Tualatin.

(3) Other revenue is secured funding from the 2018-2035 CIP, for which \$0 has been identified.

### **Formula 6: Net Park Cost per Person**

The net cost per equivalent person is calculated by adding the adjustment per equivalent person to the cost per equivalent person.

$$(6) \frac{\text{Park Cost per Person}}{\text{Person}} + \frac{\text{Adjustment per Person}}{\text{per Person}} = \frac{\text{Net Park Cost}}{\text{per Person}}$$

There are no new variables in Formula 6.

Exhibit 10 shows the calculation of the net park cost per person to be paid by growth. The park cost per person (from Exhibit 8) is added to the adjustment per person (from Exhibit 9), and the result shows the cost for parks to be paid by growth is \$5,578 per person.

**Exhibit 10. Net Cost per Equivalent Person**

|                            | <b>Cost per Equivalent<br/>Population</b> |
|----------------------------|---|
| Total Cost per Person      | \$5,550                                   |
| Total Adjustment           | \$28                                      |
| <b>Net Cost per Person</b> | <b>\$5,578</b>                            |

### Formula 7: Maximum Allowable System Development Charge per Unit of Development

The amount to be paid by each new development unit depends on the equivalent population per unit of development. The park system development charge per unit of development is calculated by multiplying the net park cost per person by the equivalent population per unit for each type of development.

$$(7) \frac{\text{Net Park Cost}}{\text{per Person}} \times \frac{\text{Equivalent Population}}{\text{per Unit}} = \frac{\text{SDC per Unit}}{\text{of Development}}$$

There is one new variable that requires explanation: (G) Equivalent Population per Unit.

#### *Variable G: Equivalent Population per Unit*

The equivalent population per unit is calculated by multiplying the equivalent population coefficient by the number of persons per unit of development, as shown in Appendix A. For residential development this is the number of persons per dwelling unit estimated from the U.S. Census American Community Survey 5-Year Estimates for the City of Tualatin. For nonresidential development, a weighted average number of employees per square foot for each type of development was calculated from the Observed Building Densities from Table 4 in the Metro 1999 Employment Density Study, as shown in Appendix D.

Exhibit 11 shows the calculation of the maximum allowable parks SDC per unit of development. The net cost per equivalent person of \$5,578 from Exhibit 10 is multiplied by the equivalent population per unit (from Exhibit A6) to calculate the SDC per unit of development for parks.

**Exhibit 11. Maximum Allowable Park System Development Charge per Unit  
of Development**

| <b>Type</b>                   | <b>Net Cost per<br/>Equivalent<br/>Person</b> |   | <b>Equivalent<br/>Population per<br/>Unit</b> | <b>Unit of<br/>Development</b> | <b>SDC Per Unit of<br/>Development</b> |
|-------------------------------|---|---|---|--------------------------------|--|
| Residential                   |   |   |   |                                |  |
| Single-Family                 | \$5,578                                       | x | 2.76  | dwelling unit =                | \$15,409                               |
| Multi-Family                  | \$5,578                                       | x | 2.06  | dwelling unit =                | \$11,486                               |
| Nonresidential                |   |   |   |                                |  |
| Industrial/Manufacturing      | \$5,578                                       | x | 0.0007  | square foot =                  | \$3.88                                 |
| Warehousing                   | \$5,578                                       | x | 0.0002  | square foot =                  | \$0.98                                 |
| Retail/Restaurant/Hospitality | \$5,578                                       | x | 0.0007  | square foot =                  | \$3.79                                 |
| Office*                       | \$5,578                                       | x | 0.0006  | square foot =                  | \$3.13                                 |

*\*Office includes healthcare, education, finance and professional services development.*



## APPENDIX A. EQUIVALENT POPULATION COEFFICIENTS

### What is “Equivalency”

When governments analyze things that are different from each other, but which have something in common, they sometimes use “equivalency” as the basis for their analysis.

For example, many water and sewer utilities calculate fees based on an average residential unit, then they calculated fees for business users on the basis of how many residential units would be equivalent to the water or sewer service used by the business. This well-established and widely practiced method uses “equivalent residential unit” (ERUs) as the multiplier that uses the rate for one residence to calculate rates for businesses. If a business needs a water connection that is double the size of an average house, that business is 2.0 ERUs, and would pay fees that are 2.0 times the fee for an average residential unit.

Another use of “equivalency” that is used in public sector organizations is “full time equivalent” (FTE) employees. One employee who works full-time is 1.0 FTE. A half-time employee is 0.5 FTE. By adding up the FTE coefficients of all part-time employees, the total is the FTE (full-time equivalent) of all the full and part-time employees.

### Equivalency and Park System Development Charges

The use of equivalency can be used to develop park SDCs that apply to new nonresidential development as well as residential development. When charging SDCs to new nonresidential development as well as new residential development the proportionate benefits parks provide for each type of development must be considered. Different types of development and the population using that development receive different benefits from Tualatin’s parks system, based on the amount of time the parks system is available during their use of each type of development.

Equivalent population coefficients use the same principles as ERUs or FTEs to measure differences among residential population and nonresidential businesses in their availability to benefit from Tualatin’s parks. This method documents the nexus between parks and development by quantifying the differences among different categories of park users.

Parks are not available for the same amount of time for occupants of nonresidential development as for occupants of residential development. In order to equitably apportion the need for parks between the residential and nonresidential development an equivalent population coefficient was

developed based on the potential time parks facilities are available for use and the distribution of Tualatin’s residential and nonresidential population.

The equivalent population coefficient is used in two ways. First, the residential equivalent from Exhibit A5 is multiplied by the number of employees in Tualatin to count employees as “equivalent population” in Tualatin. This provides a total population of residents and employees that will be used to calculate the parks cost per equivalent person. Second, the population coefficient is multiplied by a measure of population per unit to arrive at an equivalent population per unit, which is multiplied by the net park cost per equivalent person to determine the maximum allowable park SDC per unit of development.

### Calculation of Equivalent Population Coefficient for Park System Development Charges

Exhibit A1 shows the current population and employment within the City of Tualatin by place of work and place of residence. Each segment of Tualatin’s population and employment have differences in the availability of parks.

**Exhibit A1. City of Tualatin Current Population and Employment by Place of Residence and Place of Work**

|                  | Live in Tualatin | Live Elsewhere | Total         |
|------------------|------------------|----------------|---------------|
| Work in Tualatin | 1,973            | 27,533         | <b>29,506</b> |
| Work Elsewhere   | 11,796           |                |               |
| All Others       | 13,071           |                |               |
| <b>Total</b>     | <b>26,840</b>    |                |               |

- (1) *Estimates of Population Living and Working in Tualatin, Living Elsewhere and Working in Tualatin, and Living in Tualatin and Working Elsewhere based on percentages from 2015 data from U.S. Census OnTheMap and 2015 total resident population from the Portland State University, College of Urban and Public Affairs, Population Research Center, controlled to population and employment totals for 2016 from Exhibits 2 and 3.*
- (2) *Estimates of All Others is the difference of the working population living in the City of Tualatin and the total resident population in the City of Tualatin*

Exhibit A2 details the weighted average hours per day of park facility availability for each population segment. The number of hours per day differs depending on weekday vs weekend and depending on the season. Additionally, the hours differ depending on the segment of the population.

Weighted average hours per day are calculated with the following formula.

$$\left( \frac{\text{Summer Hrs}}{\text{per Day}} \times 25\% \right) + \left( \frac{\text{Spring \& Fall Hrs}}{\text{per Day}} \times 50\% \right) + \left( \frac{\text{Winter Hrs}}{\text{per Day}} \times 25\% \right) = \frac{\text{Wtd Avg Hrs}}{\text{per Day}}$$

**Exhibit A2. Weighted Hours per Day of Park Availability by Population Segment**

|                                  | All others  | Live and Work<br>in Tualatin<br>(home hrs) | Live and Work<br>in Tualatin<br>(work hrs) | Live in Tualatin<br>Work<br>Elsewhere | Live Elsewhere<br>Work in<br>Tualatin |
|----------------------------------|-------------|--|--|---------------------------------------|---------------------------------------|
| Summer (June-Sept)               |             |  |  |                                       |                                       |
| Weekday                          | 10.55       | 2.00                                       | 4.00                                       | 2.00                                  | 4.00                                  |
| Weekend                          | 10.55       | 12.00                                      | 0.00                                       | 12.00                                 | 0.00                                  |
| Hours per Day                    | 10.55       | 4.86                                       | 2.86                                       | 4.86                                  | 2.86                                  |
| Spring/Fall (April-May, Oct-Nov) |             |  |  |                                       |                                       |
| Weekday                          | 6.24        | 2.00                                       | 2.50                                       | 2.00                                  | 2.50                                  |
| Weekend                          | 8.79        | 10.00                                      | 0.00                                       | 10.00                                 | 0.00                                  |
| Hours per Day                    | 6.97        | 4.29                                       | 1.79                                       | 4.29                                  | 1.79                                  |
| Winter (Dec-March)               |             |  |  |                                       |                                       |
| Weekday                          | 4.48        | 1.00                                       | 2.00                                       | 1.00                                  | 2.00                                  |
| Weekend                          | 7.03        | 8.00                                       | 0.00                                       | 8.00                                  | 0.00                                  |
| Hours per Day                    | 5.21        | 3.00                                       | 1.43                                       | 3.00                                  | 1.43                                  |
| Wtd Avg. Hours per Day           | <b>7.42</b> | <b>4.11</b>                                | <b>1.96</b>                                | <b>4.11</b>                           | <b>1.96</b>                           |

(1) Average daily hours sourced from prior park system development charge methodologies by Don Ganer & Associates for Oregon cities.

Annual weighted hours per day by segment from Exhibit A2 were multiplied by seven days per week to arrive at the hours of park availability per week by population and employment segment, as outlined in Exhibit A3. For example, individuals that live in Tualatin and work in Tualatin have 28.75 average hours of park availability during the time where they are occupying residential development and 13.75 average hours of park availability while they are occupying nonresidential development. Individuals that work in Tualatin but live elsewhere only have 13.75 hours of park availability while they are occupying nonresidential development in the City of Tualatin and residents that are not employed (all others) have 51.96 average hours of park availability per week while they are occupying residential development.

**Exhibit A3. Park Availability in Hours per Week by Place of Residence and Place of Work**

|                  | Residential Hours |           | Work Hours |           |
|------------------|-------------------|-----------|------------|-----------|
|                  | Live in           | Live      | Live in    | Live      |
|                  | Tualatin          | Elsewhere | Tualatin   | Elsewhere |
| Work in Tualatin | 28.75             | 0.00      | 13.75      | 13.75     |
| Work Elsewhere   | 28.75             |           | 0.00       |           |
| All Others       | 51.96             |           | 0.00       |           |

The annual weighted hours of park availability per week are applied to current population and employment by segment to determine the total

annual weighted average hours per week of park availability for each category. In total there are nearly 1.5 million hours of park availability per week for the City of Tualatin.

**Exhibit A4. Total Hours per Week of Park Demand**

|                  | Resident<br>Hours (1) | Employee<br>Hours (2) | Total            |
|------------------|-----------------------|-----------------------|------------------|
| Work in Tualatin | 56,714                | 405,708               | 462,421          |
| Work Elsewhere   | 339,131               |                       | 339,131          |
| All Others       | 679,147               |                       | 679,147          |
| <b>Total</b>     | <b>1,074,992</b>      | <b>405,708</b>        | <b>1,480,700</b> |

- (1) Resident hours are equal to the population living in Tualatin by place of work from Exhibit A1 multiplied by hours per week of park availability by place of residence and location of work.
- (2) Employee hours are equal to the employee population in Tualatin by place of work from Exhibit A1 multiplied by hours per week of park availability by place of residence and location of work.

Exhibit A5 calculates the average hours per resident by dividing total resident hours from Exhibit A4 by total residential population of 26,840 from Exhibit A1. Hours per employee are calculated by dividing total employee hours from Exhibit A4 by the total number of employees in Tualatin from Exhibit A1. The residential equivalent is calculated by dividing hours per employee by hours per resident. The result of the calculation in Exhibit A5 is that one employee is equal to 0.34 residents. The resulting coefficient for residential development is 1.0.

**Exhibit A5. Residential Equivalent Coefficient**

|                               | Hours       |
|-------------------------------|-------------|
| Hours per Resident            | 40.05       |
| Hours per Employee            | 13.75       |
| <b>Residential Equivalent</b> | <b>0.34</b> |

**Calculation of Equivalent Population per Unit**

In order to convert the net cost per equivalent person to the maximum allowable SDC rate per unit of development, it is necessary to calculate a measure of equivalent population per unit of development. Exhibit A6 shows the calculation of the equivalent population per unit. The equivalent population coefficient from Exhibit A5 is multiplied by a measure of population per unit. The measure of population per unit is the number of persons per dwelling unit for residential development, calculated for single-family and multi-family dwelling units using the number of occupied dwelling units by unit type and estimated population by unit type from the 2012-2016 American Community Survey 5-Year Estimates for Tualatin, Oregon. Tables from the American Community Survey used in the analysis

include Selected Housing Characteristics and Tenure by Household Size by Units in Structure. The measure of population per unit for nonresidential development is the weighted average square feet per employee for each type of development based on the Observed Building Density table from Metro's 1999 Employment Density Study, in Appendix D, weighted by current employment by industry provided by the City of Tualatin.

**Exhibit A6. Equivalent Population per Unit**

| Type of Development           | Equivalent Population Coefficient | Population per Unit | Unit          | Equivalent Population per Unit |
|-------------------------------|-----------------------------------|---------------------|---------------|--------------------------------|
| Residential                   |                                   |                     |               |                                |
| Single-Family                 | 1.00                              | 2.76                | dwelling unit | 2.76                           |
| Multi-Family                  | 1.00                              | 2.06                | dwelling unit | 2.06                           |
| Nonresidential                |                                   |                     |               |                                |
| Industrial/Manufacturing      | 0.34                              | 0.0020              | square foot   | 0.0007                         |
| Warehousing                   | 0.34                              | 0.0005              | square foot   | 0.0002                         |
| Retail/Restaurant/Hospitality | 0.34                              | 0.0020              | square foot   | 0.0007                         |
| Office*                       | 0.34                              | 0.0016              | square foot   | 0.0006                         |

*\*Office includes healthcare, education, finance and professional services development.*

As noted previously, the equivalent population coefficient is multiplied by the number of employees in Tualatin and the residential population to calculate the total equivalent population in Tualatin. The equivalent population per unit is multiplied by the net park cost per equivalent population to calculate the SDC rate for residential and nonresidential development.

## APPENDIX B. INVENTORY OF EXISTING PARKS

Tualatin's updated Parks and Recreation Master Plan provides a detailed inventory of existing facilities and acres within the Tualatin parks system as of 2018. The parks system in Tualatin currently consists of 316.14 acres of parks in total. Tualatin has 83.75 acres of parks, 125.32 acres of greenways and shared use paths, 107.07 acres of natural areas and parks, and 0 acres of school joint-use facilities.

## Exhibit B1. Tualatin Parks Inventory, 2018

| Park/Facility Type   | Inventory     | Unit         |
|--|---------------|--------------|
| <b>Parks</b>   |               |              |
| Affalati Park  | 13.27         | acres        |
| Ibach Park   | 20.08         | acres        |
| Jurgens Park   | 15.59         | acres        |
| Lafky Park   | 2             | acres        |
| Stoneridge Park  | 0.23          | acres        |
| Tualatin Commons   | 4.83          | acres        |
| Tualatin Commons Park  | 0.64          | acres        |
| Tualatin Community Park  | 27.11         | acres        |
| <b>Total Parks</b>   | <b>83.75</b>  | <b>acres</b> |
| <b>Greenways &amp; Shared Use Paths</b>                                |               |              |
| Chieftain/Dakota Greenway  | 6.14          | acres        |
| Hedges Creek Greenway  | 11.66         | acres        |
| Helenius Greenway  | 0.43          | acres        |
| Hi-West Estates Greenway   | 1.59          | acres        |
| Indian Meadows Greenway  | 3.82          | acres        |
| Nyberg Creek Greenway  | 5.78          | acres        |
| Nyberg Creek (South) Greenway  | 2.3           | acres        |
| Saum Creek Greenway  | 54.22         | acres        |
| Shaniko Greenway   | 3.3           | acres        |
| Tualatin River Greenway  | 30.39         | acres        |
| 65th Avenue Shared Use Path  | 0.47          | acres        |
| Boones Ferry Road Shared Use Path (Byrom Elementary to Arapaho Road)   | 0.41          | acres        |
| Byrom Elementary Shared Use Path (Martinazzi Ave. to Boones Ferry Rd.) | 0.8           | acres        |
| Cherokee Street Shared Use Path (108th Ave to Rail Road ROW)           | 0.09          | acres        |
| I-5 Shared Use Path (Warm Springs St. to Sagert St.)                   | 1.54          | acres        |
| Ice Age Tonquin Trail  | 2.38          | acres        |
| <b>Total Greenways &amp; Shared Use Paths</b>                          | <b>125.32</b> | <b>acres</b> |
| <b>Natural Parks &amp; Areas</b>                                       |               |              |
| Brown's Ferry Park   | 43.21         | acres        |
| Hedges Creek Wetlands Protection District                              | 29.06         | acres        |
| Hervin Grove Natural Area  | 0.29          | acres        |
| Johnnie and William Koller Wetland Park                                | 15.32         | acres        |
| Little Woodrose Nature Park  | 6.55          | acres        |
| Saarinen Wayside Park  | 0.06          | acres        |
| Sequoia Ridge Natural Area   | 0.65          | acres        |
| Sweek Ponds Natural Area   | 4.68          | acres        |
| Sweek Woods Natural Area   | 5.03          | acres        |
| Victoria Woods Natural Area  | 2.22          | acres        |
| <b>Total Natural Parks &amp; Areas</b>                                 | <b>107.07</b> | <b>acres</b> |
| <b>School Joint-Use Facilities</b>                                     |               |              |
| TuHS Leonard Pohl Field  | 0             | acres        |
| TuHS-Byrom Elementary Cross Country Running Trail                      | 0             | acres        |
| <b>Total School Joint-Use Facilities</b>                               | <b>0</b>      | <b>acres</b> |
| <b>Total Park Inventory</b>  | <b>316.14</b> | <b>acres</b> |

## APPENDIX C. CAPITAL IMPROVEMENTS PLAN AND PROJECTS THAT ADD CAPACITY, 2018-2035

The Capital Improvements Plan (CIP) for 2018-2035 contains 53 projects, among these 21 are prioritized SDC eligible projects included in the SDC methodology, which include improvements to existing parks as well as acquisition and development of new parks. Project numbers and names are listed in column one of Exhibit C1. The total capital cost of each project is listed in column two, totaling \$215.9 million. The third column lists the total acres by project, totaling 409.6 acres. The fourth column lists the SDC eligible acres to be acquired totaling 64.73 acres. The fifth column lists the percentage of acres to be improved for each CIP project. The sixth column calculates the SDC eligible acres to be improved, equal to acres multiplied by the percent to be improved, totaling 144.5 acres to be improved. The seventh column lists the cost of SDC eligible park land acquisition, totaling \$16 million. The eighth column lists the total cost of improvements, equal to \$178.4 million. The ninth column lists the percentage of improvements that are SDC eligible for each project. The tenth column lists eligible improvement costs, totaling \$58 million. The final column lists the total SDC eligible project costs, equal to \$74 million.

City of Tualatin staff have identified no secured funding for the park projects listed in the 2018-2035 Capital Improvements Plan. Specific totals derived from the analysis of CIP projects are used in Formulas 2 and 5 in the Park System Development Charge chapter of this methodology. Projects highlighted grey in Exhibit C1 are those projects that are not priority SDC projects and are not included in the SDC methodology.

City of Tualatin staff and the 2018 Tualatin Parks and Recreation Master Plan have identified aspirational projects included in the CIP that are SDC eligible, but at this time are not considered likely to be developed within the time horizon of this methodology and so are excluded from the analysis.

- CIP # E28: Shaniko Greenway



**Exhibit C1. Capital Improvements Plan for Parks, 2018 – 2035**

Exhibit 1

| CIP #                                       | Project                                   | CIP Budget          | Total Acres   | SDC Eligible Acres | % Acres to be Improved | SDC Eligible Improved Acres | SDC Land Cost | Improvement Cost    | % Improvement SDC Eligible | Eligible Improvement Cost | Total Eligible Cost |
|---|---|---------------------|---------------|--------------------|------------------------|-----------------------------|---------------|---------------------|----------------------------|---------------------------|---------------------|
| <b>Parks (Existing)</b>                     |   |                     |               |                    |                        |                             |               |                     |                            |                           |                     |
| E1  | Aiflati Park                              | \$6,181,432         | 13.27         | 0.00               | 25%                    | 3.32                        | \$0           | \$6,181,432         | 25%                        | \$1,545,358               | \$1,545,358         |
| E2  | Ibach Park                                | \$9,041,788         | 20.08         | 0.00               | 25%                    | 5.02                        | \$0           | \$9,041,788         | 25%                        | \$2,260,447               | \$2,260,447         |
| E3  | Jurgens Park                              | \$7,328,675         | 15.59         | 0.00               | 40%                    | 6.24                        | \$0           | \$7,328,675         | 40%                        | \$2,931,470               | \$2,931,470         |
| E4  | Lafky Park                                | \$277,818           | 2.00          | 0.00               | 0%                     | 0.00                        | \$0           | \$277,818           | 0%                         | \$0                       | \$0                 |
| E5  | Stoneridge Park                           | \$113,870           | 0.23          | 0.00               | 0%                     | 0.00                        | \$0           | \$113,870           | 0%                         | \$0                       | \$0                 |
| E6  | Tualatin Commons                          | \$1,088,198         | 4.83          | 0.00               | 0%                     | 0.00                        | \$0           | \$1,088,198         | 0%                         | \$0                       | \$0                 |
| E7  | Tualatin Commons Park                     | \$61,187            | 0.64          | 0.00               | 0%                     | 0.00                        | \$0           | \$61,187            | 0%                         | \$0                       | \$0                 |
| E8  | Tualatin Community Park                   | \$19,529,596        | 27.11         | 0.00               | 0%                     | 0.00                        | \$0           | \$19,529,596        | 0%                         | \$0                       | \$0                 |
| E9  | Tualatin Library                          | \$6,107,222         | 0.00          | 0.00               | 0%                     | 0.00                        | \$0           | \$6,107,222         | 0%                         | \$0                       | \$0                 |
| <b>Subtotal</b>                             |   | <b>\$49,729,787</b> | <b>83.75</b>  | <b>0.00</b>        | <b>17%</b>             | <b>14.57</b>                | <b>\$0</b>    | <b>\$49,729,787</b> | <b>14%</b>                 | <b>\$6,737,275</b>        | <b>\$6,737,275</b>  |
| <b>Special Parks &amp; Areas (Existing)</b> |   |                     |               |                    |                        |                             |               |                     |                            |                           |                     |
| E10   | Brown's Ferry Park                        | \$28,539,479        | 43.21         | 0.00               | 25%                    | 10.80                       | \$0           | \$13,539,479        | 25%                        | \$3,384,870               | \$3,384,870         |
| E11   | Hedges Creek Wetlands Protection District | \$1,213,220         | 29.06         | 0.00               | 0%                     | 0.00                        | \$0           | \$1,213,220         | 0%                         | \$0                       | \$0                 |
| E12   | Hervin Grove Natural Area                 | \$20,000            | 0.29          | 0.00               | 0%                     | 0.00                        | \$0           | \$20,000            | 0%                         | \$0                       | \$0                 |
| E13   | Johnnie and William Koller Wetland Park   | \$2,506,200         | 15.32         | 0.00               | 40%                    | 6.13                        | \$0           | \$2,506,200         | 50%                        | \$1,253,100               | \$1,253,100         |
| E14   | Little Woodrose Nature Park               | \$1,375,619         | 6.55          | 0.00               | 0%                     | 0.00                        | \$0           | \$1,375,619         | 0%                         | \$0                       | \$0                 |
| E15   | Scarinen Wayside Park                     | \$20,000            | 0.06          | 0.00               | 0%                     | 0.00                        | \$0           | \$20,000            | 0%                         | \$0                       | \$0                 |
| E16   | Sequoia Ridge Natural Area                | \$46,000            | 0.65          | 0.00               | 0%                     | 0.00                        | \$0           | \$46,000            | 0%                         | \$0                       | \$0                 |
| E17   | Sweek Ponds Natural Area                  | \$1,261,784         | 4.68          | 0.00               | 0%                     | 0.00                        | \$0           | \$1,261,784         | 0%                         | \$0                       | \$0                 |
| E18   | Sweek Woods Natural Area                  | \$20,000            | 5.03          | 0.00               | 0%                     | 0.00                        | \$0           | \$20,000            | 0%                         | \$0                       | \$0                 |
| E19   | Victoria Woods Natural Area               | \$228,550           | 2.22          | 0.00               | 0%                     | 0.00                        | \$0           | \$228,550           | 0%                         | \$0                       | \$0                 |
| <b>Subtotal</b>                             |   | <b>\$35,230,852</b> | <b>107.07</b> | <b>0.00</b>        | <b>16%</b>             | <b>16.93</b>                | <b>\$0</b>    | <b>\$20,230,852</b> | <b>23%</b>                 | <b>\$4,637,970</b>        | <b>\$4,637,970</b>  |

Exhibit C1 cont. Capital Improvements Plan for Parks, 2018 – 2035

Exhibit 1

| CIP #   | Project   | CIP Budget          | Total Acres   | SDC Eligible Acquired Acres | % Acres to be Improved | SDC Eligible Improved Acres | SDC Land Cost | Improvement Cost    | % Improvement SDC Eligible | Eligible Improvement Cost | Total Eligible Cost |  |
|---|---|---------------------|---------------|-----------------------------|------------------------|-----------------------------|---------------|---------------------|----------------------------|---------------------------|---------------------|--|
| <b>Greenways (Existing)</b>                   |   |                     |               |                             |                        |                             |               |                     |                            |                           |                     |  |
| E20   | Chieftain/Dakota Greenway   | \$1,520,978         | 6.14          | 0.00                        | 50%                    | 3.07                        | \$0           | \$1,520,978         | 50%                        | \$760,489                 | \$760,489           |  |
| E21   | Hedges Creek Greenway   | \$1,798,218         | 11.66         | 0.00                        | 50%                    | 5.83                        | \$0           | \$1,798,218         | 75%                        | \$1,348,664               | \$1,348,664         |  |
| E22   | Helenius Greenway   | \$149,000           | 0.43          | 0.00                        | 100%                   | 0.43                        | \$0           | \$149,000           | 100%                       | \$149,000                 | \$149,000           |  |
| E23   | Hi-West Estates Greenway  | \$190,338           | 1.59          | 0.00                        | 0%                     | 0.00                        | \$0           | \$190,338           | 0%                         | \$0                       | \$0                 |  |
| E24   | Indian Meadows Greenway   | \$545,049           | 3.82          | 0.00                        | 10%                    | 0.38                        | \$0           | \$545,049           | 10%                        | \$54,505                  | \$54,505            |  |
| E25   | Nyberg Creek Greenway   | \$1,381,656         | 5.78          | 0.00                        | 75%                    | 4.34                        | \$0           | \$1,381,656         | 75%                        | \$1,036,242               | \$1,036,242         |  |
| E26   | Nyberg Creek (South) Greenway   | \$710,000           | 2.30          | 0.00                        | 100%                   | 2.30                        | \$0           | \$710,000           | 100%                       | \$710,000                 | \$710,000           |  |
| E27   | Saum Creek Greenway   | \$4,376,436         | 54.22         | 0.00                        | 25%                    | 13.56                       | \$0           | \$4,376,436         | 50%                        | \$2,188,218               | \$2,188,218         |  |
| E28   | Shaniko Greenway  | \$48,732            | 3.30          | 0.00                        | 0%                     | 0.00                        | \$0           | \$48,732            | 0%                         | \$0                       | \$0                 |  |
| E29   | Tualatin River Greenway   | \$5,483,771         | 30.39         | 0.00                        | 50%                    | 15.20                       | \$0           | \$5,483,771         | 50%                        | \$2,741,885               | \$2,741,885         |  |
|   | <b>Subtotal</b>   | <b>\$16,204,180</b> | <b>119.63</b> | <b>0.00</b>                 | <b>38%</b>             | <b>45.10</b>                | <b>\$0</b>    | <b>\$16,204,180</b> | <b>55%</b>                 | <b>\$8,989,004</b>        | <b>\$8,989,004</b>  |  |
| <b>School Joint-Use Facilities (Existing)</b> |   |                     |               |                             |                        |                             |               |                     |                            |                           |                     |  |
| E30   | TuHS Leonard Pohl Field 2   | \$563,024           | 0.00          | 0.00                        | 0%                     | 0.00                        | \$0           | \$563,024           | 0%                         | \$0                       | \$0                 |  |
| E31   | TuHS-Byrom Elementary Cross Country Running Trail                     | \$42,865            | 0.00          | 0.00                        | 0%                     | 0.00                        | \$0           | \$42,865            | 0%                         | \$0                       | \$0                 |  |
|   | <b>Subtotal</b>   | <b>\$605,889</b>    | <b>0.00</b>   | <b>0.00</b>                 | <b>0%</b>              | <b>0.00</b>                 | <b>\$0</b>    | <b>\$605,889</b>    | <b>0%</b>                  | <b>\$0</b>                | <b>\$0</b>          |  |
| <b>Shared Use Paths (Existing)</b>            |   |                     |               |                             |                        |                             |               |                     |                            |                           |                     |  |
| E32   | 65th Avenue Shared Use Path   | \$0                 | 0.47          | 0.00                        | 0%                     | 0.00                        | \$0           | \$0                 | 0%                         | \$0                       | \$0                 |  |
| E33   | Boones Ferry Road Shared Use  | \$0                 | 0.41          | 0.00                        | 0%                     | 0.00                        | \$0           | \$0                 | 0%                         | \$0                       | \$0                 |  |
| E34   | Byrom Elementary Shared Use Path (Marinazzi Ave. to Boones Ferry Rd.) | \$0                 | 0.80          | 0.00                        | 0%                     | 0.00                        | \$0           | \$0                 | 0%                         | \$0                       | \$0                 |  |
| E35   | Cherokee Street Shared Use Path (108th Ave to Rail Road ROW)          | \$0                 | 0.09          | 0.00                        | 0%                     | 0.00                        | \$0           | \$0                 | 0%                         | \$0                       | \$0                 |  |
| E36   | 1-5 Shared Use Path (Warm Springs St. to Sager St.)                   | \$462,000           | 1.54          | 0.00                        | 100%                   | 1.54                        | \$0           | \$462,000           | 100%                       | \$462,000                 | \$462,000           |  |
| E37   | Ice Age Tonquin Trail   | \$723,500           | 3.06          | 0.68                        | 75%                    | 2.30                        | \$0           | \$723,500           | 100%                       | \$723,500                 | \$723,500           |  |
|   | <b>Subtotal</b>   | <b>\$1,185,500</b>  | <b>6.37</b>   | <b>0.68</b>                 | <b>60%</b>             | <b>3.84</b>                 | <b>\$0</b>    | <b>\$1,185,500</b>  | <b>100%</b>                | <b>\$1,185,500</b>        | <b>\$1,185,500</b>  |  |

Exhibit C1 cont. Capital Improvements Plan for Parks, 2018 – 2035

Exhibit 1

| CIP #   | Project   | CIP Budget           | Total Acres   | SDC Eligible Acres | % Acres to be Improved | SDC Eligible Improved Acres | SDC Land Cost       | Improvement Cost     | % Improvement SDC Eligible | Eligible Improvement Cost | Total Eligible Cost |  |
|---|---|----------------------|---------------|--------------------|------------------------|-----------------------------|---------------------|----------------------|----------------------------|---------------------------|---------------------|--|
| <b>Parks (Proposed)</b>                         |   |                      |               |                    |                        |                             |                     |                      |                            |                           |                     |  |
| P1  | Jurgens Park addition                             | \$3,947,500          | 5.15          | 5.15               | 100%                   | 5.15                        | \$1,287,500         | \$2,660,000          | 100%                       | \$2,660,000               | \$3,947,500         |  |
| P2  | Tualatin Community Park addition                  | \$2,335,000          | 3.00          | 3.00               | 100%                   | 3.00                        | \$750,000           | \$1,585,000          | 100%                       | \$1,585,000               | \$2,335,000         |  |
| P3  | Basalt Creek park                                 | \$17,110,000         | 20.00         | 20.00              | 100%                   | 20.00                       | \$5,000,000         | \$12,110,000         | 100%                       | \$12,110,000              | \$17,110,000        |  |
| P4  | East Tualatin / Bridgeport Elementary partnership | \$200,000            | 0.00          | 0.00               | 0%                     | 0.00                        | \$0                 | \$200,000            | 0%                         | \$0                       | \$0                 |  |
| P5  | Pony Ridge/ Heritage Pines partnership            | \$210,000            | 0.00          | 0.00               | 0%                     | 0.00                        | \$0                 | \$210,000            | 0%                         | \$0                       | \$0                 |  |
| P6  | Central Tualatin sports park                      | \$6,835,000          | 9.00          | 9.00               | 100%                   | 9.00                        | \$2,250,000         | \$4,585,000          | 100%                       | \$4,585,000               | \$6,835,000         |  |
| P7  | Community recreation center                       | \$33,835,000         | 5.00          | 0.00               | 0%                     | 0.00                        | \$0                 | \$32,585,000         | 0%                         | \$0                       | \$0                 |  |
| P8  | Additional park opportunities                     | \$8,925,000          | 11.80         | 11.80              | 100%                   | 11.80                       | \$2,950,000         | \$5,975,000          | 100%                       | \$5,975,000               | \$8,925,000         |  |
| P9  | Tournament sports complex                         | \$12,585,000         | 10.00         | 0.00               | 0%                     | 0.00                        | \$0                 | \$10,085,000         | 0%                         | \$0                       | \$0                 |  |
|   | <b>Subtotal</b>                                   | <b>\$85,982,500</b>  | <b>63.95</b>  | <b>48.95</b>       | <b>77%</b>             | <b>48.95</b>                | <b>\$12,237,500</b> | <b>\$69,995,000</b>  | <b>38%</b>                 | <b>\$26,915,000</b>       | <b>\$39,152,500</b> |  |
| <b>Natural Parks &amp; Areas (Proposed)</b>     |   |                      |               |                    |                        |                             |                     |                      |                            |                           |                     |  |
| P10   | New natural park and areas                        | \$7,655,000          | 12.70         | 0.00               | 0%                     | 0.00                        | \$0                 | \$5,115,000          | 0%                         | \$0                       | \$0                 |  |
|   | <b>Subtotal</b>                                   | <b>\$7,655,000</b>   | <b>12.70</b>  | <b>0.00</b>        | <b>0%</b>              | <b>0.00</b>                 | <b>\$0</b>          | <b>\$5,115,000</b>   | <b>0%</b>                  | <b>\$0</b>                | <b>\$0</b>          |  |
| <b>Trails &amp; Shared Use Paths (Proposed)</b> |   |                      |               |                    |                        |                             |                     |                      |                            |                           |                     |  |
| P11   | New greenways and shared use paths                | \$13,340,000         | 15.10         | 15.10              | 100%                   | 15.10                       | \$3,775,000         | \$9,565,000          | 100%                       | \$9,565,000               | \$13,340,000        |  |
| P12   | Westside Trail bridge                             | \$5,575,000          | 1.00          | 0.00               | 0%                     | 0.00                        | \$0                 | \$5,325,000          | 0%                         | \$0                       | \$0                 |  |
|   | <b>Subtotal</b>                                   | <b>\$18,915,000</b>  | <b>16.10</b>  | <b>15.10</b>       | <b>94%</b>             | <b>15.10</b>                | <b>\$3,775,000</b>  | <b>\$14,890,000</b>  | <b>64%</b>                 | <b>\$9,565,000</b>        | <b>\$13,340,000</b> |  |
| <b>Additional Planning (Proposed)</b>           |   |                      |               |                    |                        |                             |                     |                      |                            |                           |                     |  |
| P13   | Community (Urban) Forestry Plan                   | \$100,000            | 0.00          | 0.00               | 0%                     | 0.00                        | \$0                 | \$100,000            | 0%                         | \$0                       | \$0                 |  |
| P14   | Comprehensive Fee Analysis and Plan               | \$100,000            | 0.00          | 0.00               | 0%                     | 0.00                        | \$0                 | \$100,000            | 0%                         | \$0                       | \$0                 |  |
| P15   | Resource Management Plan                          | \$100,000            | 0.00          | 0.00               | 0%                     | 0.00                        | \$0                 | \$100,000            | 0%                         | \$0                       | \$0                 |  |
| P16   | Marketing and Outreach Plan                       | \$100,000            | 0.00          | 0.00               | 0%                     | 0.00                        | \$0                 | \$100,000            | 0%                         | \$0                       | \$0                 |  |
|   | <b>Subtotal</b>                                   | <b>\$400,000</b>     | <b>0.00</b>   | <b>0.00</b>        | <b>0%</b>              | <b>0.00</b>                 | <b>\$0</b>          | <b>\$400,000</b>     | <b>0%</b>                  | <b>\$0</b>                | <b>\$0</b>          |  |
| <b>Total</b>                                    |   | <b>\$215,908,708</b> | <b>409.57</b> | <b>64.73</b>       | <b>35%</b>             | <b>144.49</b>               | <b>\$16,012,500</b> | <b>\$178,356,208</b> | <b>33%</b>                 | <b>\$58,029,748</b>       | <b>\$74,042,248</b> |  |

## APPENDIX D. OBSERVED BUILDING DENSITIES

ORS 223.301 prohibits local governments from determining the SDC for a specific development based on the number of employees hired, and fee amounts cannot be determined based on the number of employees without regard to new construction or new development. In order to ensure that the park SDCs are not charged based on the number of employees it is necessary to develop a ratio between the number of employees and the square feet of new development required to accommodate employees. Metro's 1999 Employment Density Study has a detailed list of square feet per employee by industry, which was used to calculate a weighted average number of square feet per employee by type of development.

**Exhibit D1. Observed Building Densities**

| Industry Grouping (SIC) | Description                                 | Weighted Square Feet per Employee |
|-------------------------|---|-----------------------------------|
| 1-19                    | Ag., Fish & Forest Services; Constr; Mining | 590                               |
| 20                      | Food & Kindred Products                     | 630                               |
| 21                      | Tobacco (industry does not exist in Oregon) | 0                                 |
| 22, 23                  | Textile & Apparel                           | 930                               |
| 24                      | Lumber & Wood                               | 640                               |
| 25, 32, 39              | Furniture; Clay, Stone & Glass; Misc.       | 760                               |
| 26                      | Paper & Allied                              | 1,600                             |
| 27                      | Printing, Publishing & Allied               | 450                               |
| 28-31                   | Chemicals, Petroleum, Rubber, Leather       | 720                               |
| 33, 34                  | Primary & Fabricated Metals                 | 420                               |
| 35                      | Machinery Equipment                         | 300                               |
| 36, 38                  | Electrical Machinery, Equipment             | 400                               |
| 37                      | Transportation Equipment                    | 700                               |
| 40-42, 44, 45, 47       | TCPU - Transportation and Warehousing       | 3,290                             |
| 43, 46, 48, 49          | TCPU - Communications and Public Utilities  | 460                               |
| 50, 51                  | Wholesale Trade                             | 1,390                             |
| 52-59                   | Retail Trade                                | 470                               |
| 60-68                   | Finance, Insurance & Real Estate            | 370                               |
| 70-79                   | Non-Health Services                         | 770                               |
| 80                      | Health Services                             | 350                               |
| 81-89                   | Educational, Social, Membership Services    | 740                               |
| 90-99                   | Government                                  | 530                               |