



DEVELOPMENT SERVICES DEPARTMENT  
ENVIRONMENTAL COORDINATOR  
450 110<sup>th</sup> Ave NE., P.O. BOX 90012  
BELLEVUE, WA 98009-9012

**OPTIONAL DETERMINATION OF NON-SIGNIFICANCE (DNS) NOTICE MATERIALS**

The attached materials are being sent to you pursuant to the requirements for the Optional DNS Process (WAC 197-11-355). A DNS on the attached proposal is likely. This may be the only opportunity to comment on environmental impacts of the proposal. Mitigation measures from standard codes will apply. Project review may require mitigation regardless of whether an EIS is prepared. A copy of the subsequent threshold determination for this proposal may be obtained upon request.

File No. 13-112744-LO  
Project Name/Address: Sunrise Park Trail Improvements  
4095 West Lake Sammamish Parkway SE  
Planner: David Pyle / dpyle@bellevuewa.gov  
Phone Number: 425-452-2973  
Minimum Comment Period: May 16, 2013

Materials included in this Notice:

- Blue Bulletin
- Checklist
- Vicinity Map
- Plans
- Other:

**Sunrise Park Trail Improvements  
Critical Areas Land Use Permit  
Narrative Description  
April 4, 2013**

*Description of the project site, including landscape features, existing development, and site history as applicable.*

Response: The project site is primarily located within the existing Sunrise Park. The park property, approximately 4.48 acres in size, is located along West Lake Sammamish Parkway SE. A gravel parking area, which accommodates approximately 4 to 5 vehicles, is located directly adjacent to the roadway. The park includes an asphalt trail that extends from the parking area in a southerly direction, eventually extending off the park property into the Interstate 90 right-of-way and connecting with the Mountains-to-Sound Trail. The trail corridor includes a wooden footbridge with concrete abutments and a pea-gravel overlook. The trail shoulder areas (extending approximately two feet on either side of the trail) are typically compacted bare dirt. The City of Bellevue Parks and Community Services Department proposes to improve the trail corridor by widening the asphalt pavement to a width of 10 feet, removing the pea-gravel overlook, extending two small drainage pipes, installing an Envirolock bagged retaining wall system, adding new trail signage, and restoring disturbed and degraded areas with native plantings. Additional site improvements include a new parallel parking alignment, a new paved connection to the walkway along West Lake Sammamish Parkway SE, and two new kiosks.

The City of Bellevue owns the park parcel upon which the majority of improvements are proposed. The parcel is designated open space within the City. Single-family residences are located west and north of the site; the Sammamish Bible Camp is located east of the parcel and the Interstate 90 right-of-way is located south of the parcel. The subject site is relatively flat near West Lake Sammamish Parkway SE, but slopes upward to the south. Total elevation gain from the parking area to the Mountains-to-Sound Trail is approximately 55 feet. The site is primarily forested and includes a Type F stream, Sunrise Creek. The stream flows northward through a narrow valley with steep, predominantly vegetated banks. See the attached Stream Study for additional information on the stream.

As mentioned, the widened trail will represent an improved connection between West Lake Sammamish Parkway SE and the Mountains-to-Sound Trail. The Mountains-to-Sound Trail extends in an east-west orientation, providing access to multiple areas in both directions. Overall, the proposed project will provide increased recreational opportunities for the public.

Portions of proposed improvements will occur within the on-site stream buffer. However, improvements are primarily concentrated within the existing trail alignment and will mainly occur within the non-vegetated and compacted trail shoulder. Proposed native plantings within and outside of the buffer are expected to offset any minimal impact to the buffer and may result in a long-term ecological improvement.

*A description of how the design constitutes the minimum necessary impact to the critical area.*

Response: The design utilizes expansion of existing impacted areas. Direct impacts to the on-site critical area (Sunrise Creek) have been avoided. Impacts are limited to the stream buffer.

*A description of why there is no feasible alternative with less impact to the critical area, critical area buffer, or critical area structure setback.*

Response: There is no feasible alternative with less impact to the critical area buffer. The existing trail is in need of improvement, including widening to accommodate increased usage. With an existing trail already in place, locating a new wider trail elsewhere within the forested park could represent a greater ecological impact, with significant impacts to highly functioning native vegetation. Further, costs associated with a new trail alignment are disproportionate to the costs associated with improving the existing trail. Therefore, widening the trail in its present location is the only feasible alternative.

*A description of alternatives considered and why the alternative selected is preferred.*

Response: The project purpose is to provide an improved, wider trail for pedestrian use. As mentioned above, the only alternative to improving and widening the existing trail would be construction of a new trail alignment elsewhere in the forested park. Additional ecological impacts and disproportionate costs make this alternative non-viable.

***A summary of how the proposal meets each of the decision criteria contained in Land Use Code Section 20.30P.***

*The Director may approve or approve with modifications an application for a Critical Areas Land Use Permit if:*

*A. The proposal obtains all other permits required by the Land Use Code.*

Response: In addition to a Critical Areas Land Use Permit, the project applicant will apply for a Clearing and Grading Permit and Right-of-Way Use Permit from the City of Bellevue. No other City of Bellevue land use or construction permits will be required of this project.

*B. The proposal utilizes to the maximum extent possible the best available construction, design and development techniques which result in the least impact on the critical area and critical area buffer.*

Response: The proposed project involves the improvement and widening of an existing pedestrian trail within Sunrise Park. Areas of vegetation enhancement will also occur. Trail width has been limited to the minimum necessary to meet projected demand, while also providing adequate safety for trail users.

Enhancement plantings are proposed in those areas along the trail corridor that are currently devoid of significant native vegetation. Plantings are also proposed in an existing gathering area currently covered in gravel and asphalt. Proposed plantings will help keep users on the trail, improve habitat complexity within and adjacent to the stream buffer, and help to filter and disperse stormwater runoff from the trail.

Therefore, through minimizing impacts within the buffer and restoring areas with native plantings, the design and development of the proposed project will not decrease ecological function of the project site, and may improve ecological function over the long-term. Furthermore, the public will have improved access to this area.

*C. The proposal incorporates the performance standards of Part 20.25H LUC to the maximum extent applicable.*

20.25H.055.C.3.g *New and Expanded City and Public Parks*

*i. Trails. New nonmotorized trails within the critical area or critical area buffer must meet the following standards:*

*(A) Trail location and design shall result in the least impacts on the critical area or critical area buffer.*

Response: Design of the proposed trail improvements will result in the least amount of critical area and critical areas buffer impacts possible. No direct stream impacts are proposed; impacts will take place only within the stream buffer. However, improvements are primarily concentrated within the existing trail alignment and will mainly occur within the non-vegetated and compacted trail shoulder. Proposed native plantings within and outside of the buffer are expected to offset any minimal impact to the buffer and may result in a long-term ecological improvement.

*(B) Trails shall be designed to compliment and enhance the environmental, educational, and social functions and values of the critical area with trail design and construction focused on managing and controlling public access and limiting uncontrolled access.*

Response: The proposed trail improvements have been designed to enhance several aspects of the critical area:

- 1) Environmentally, the critical area will be improved through implementation of a restoration plan that includes the planting of native species within the stream buffer. Overall, ecological function within the critical area will improve as a result of the proposed project.
- 2) Educational and social values of the critical area will also be improved as a result of the proposed project. In addition to improving the trail and enhancing the buffer, the proposed project includes new kiosks and several trail information signs. Therefore, the public would be provided with additional passive access opportunities, all while protecting the critical area and creating further awareness of the ecological sensitivity and uniqueness of the area.

*(C) Trails shall be designed to avoid disturbance of significant trees and to limit disturbance of native understory vegetation.*

Response: No existing significant trees are proposed for complete removal as part of the proposed project. Two trees, a 32-inch-diameter cedar and an 18-inch-diameter cedar, are partially located within the widened trail alignment and will be turned into snags. Remaining significant trees within the project corridor will be adequately protected

during construction activities. Areas of native shrubs and groundcover that are impacted during construction activities will be restored with native plantings after construction is complete.

*(D) Trails shall be designed to avoid disturbance of habitat used for salmonid rearing or spawning or by any species of local importance.*

Response: Salmonid use of Sunrise Creek has not been documented by Washington Department of Fish and Wildlife's SalmonScape database (WDFW 2013) and is not documented in the known freshwater distribution of salmon and trout in the Lake Washington/Cedar/Sammamish Watershed (WRIA 8 2001). According to Washington Department of Fish and Wildlife's PHS on the Web, no priority species or habitats are located in the immediate project area. Widening of the trail is also not expected to impact any species of local importance.

*(E) The trail shall be the minimum width necessary to accommodate the intended function or objective.*

Response: The proposed trail has been designed to have a width of approximately ten feet. The proposed width is intended to provide adequate and safe capacity for expected demand and is consistent with the width of connecting trails to the north and south of the project site.

*(F) All work shall be consistent with the City of Bellevue's "Environmental Best Management Practices" and all applicable City of Bellevue codes and standards, now or as hereafter amended.*

Response: All trail-improvement work shall be consistent with the City of Bellevue Clearing and Grading Code (Chapter 23.76), permit conditions, and all other applicable codes, ordinances, and standards, including "Environmental Best Management Practices."

*(G) The facility shall not significantly change or diminish overall aquatic area flow peaks, duration or volume or flood storage capacity, or hydroperiod.*

Response: All portions of the proposed improvements will be located outside the limits of the on-site stream. Overall, there will be no change in flow peaks or storage capacity within the stream channel.

*(H) Where feasible and consistent with any accessibility requirements, any trail shall be constructed of pervious materials.*

Response: The existing on-site trail is currently made of asphalt. The proposed project includes the addition of a new layer of asphalt on the trail and adding additional asphalt in some areas to achieve a finished width of ten feet; therefore, the existing underlying trail will inhibit any percolating drainage benefits of pervious material. The purpose of the asphalt trail is to provide a durable, hard surface to accommodate the expected level of demand. Additionally, connecting trails to the north and south of the project site are made of asphalt. Therefore, in order to provide a consistent surface through the project area, asphalt has been utilized.

*(I) Crossings over and penetrations into wetlands and streams shall be generally perpendicular to the critical area, and shall be accomplished by bridging or other technique designed to minimize critical area disturbance considering the entire trail segment and function.*

Response: No new crossing of the on-site stream is proposed. The existing bridge that crosses the stream will remain in place. Proposed improvements will result in a widened trail on either side of the bridge; however, as mentioned, no new crossing is proposed.

*(J) Areas of new permanent disturbance and all areas of temporary disturbance shall be mitigated and/or restored pursuant to a mitigation and restoration plan meeting the requirements of LUC 20.25H.210.*

Response: The project includes approximately 9,600 square feet of stream buffer enhancement and restoration. These actions are included in a plan developed in accordance with LUC 20.25H.210.

*D. The proposal will be served by adequate public facilities including streets, fire protection, and utilities.*

Response: The proposed project will be served by adequate public facilities. No additional public facilities will be required with implementation of the proposed project.

*E. The proposal includes a mitigation or restoration plan consistent with the requirements of LUC 20.25H.210; except that a proposal to modify or remove vegetation*

*pursuant to an approved Vegetation Management Plan under LUC 20.25H.055.C.3.i shall not require a mitigation or restoration plan.*

Response: A restoration plan has been prepared in accordance with the requirements of LUC 20.25H.210.

*F. The proposal complies with other applicable requirements of this code.*

Response: The proposed project complies with all other applicable City of Bellevue Land Use Codes, including 20.25H and 23.76.

***A summary of how the proposal meets each of the criteria and performance standards contained in Land Use Code Section 20.25H associated with the critical area you are modifying.***

*Development on sites with a Type S or F stream or associated critical area buffer shall incorporate the following performance standards in design of the development, as applicable:*

*1. Lights shall be directed away from the stream.*

Response: No lights are proposed as part of the trail improvement project.

*2. Activity that generates noise such as parking lots, generators, and residential uses, shall be located away from the stream, or any noise shall be minimized through use of design and insulation techniques.*

Response: The proposed project will not generate any significant amounts of noise. The only new noise generated within the project area would be passing pedestrians, bicycles, strollers, etc.

*3. Toxic runoff from new impervious area shall be routed away from the stream.*

Response: Proposed impervious surfaces are not considered to be “pollution generating,” and therefore, no treatment is required. However, runoff from the trail will be dispersed within a vegetated buffer.

4. *Treated water may be allowed to enter the stream critical area buffer.*

Response: As indicated in the prior response, stormwater runoff will be dispersed within a vegetated buffer, some of which will occur within the on-site stream buffer.

5. *The outer edge of the stream critical area buffer shall be planted with dense vegetation to limit pet or human use.*

Response: An enhancement plan has been prepared that details the areas proposed for enhancement. Specifically, dense, native vegetation will be planted within those portions of the stream buffer not already vegetated with native species. Native species proposed for planting within the buffer include oceanspray, snowberry, beaked hazelnut, sword fern, low Oregon grape, bald hip rose, evergreen huckleberry, western trillium, red flowering currant, redwood sorrel, salal, and bleeding heart.

6. *Use of pesticides, insecticides and fertilizers within 150 feet of the edge of the stream buffer shall be in accordance with the City of Bellevue's "Environmental Best Management Practices," now or as hereafter amended. (Ord. 5680, 6-26-06, § 3)*

Response: All enhancement and restoration activities associated with the trail improvement project, including pesticide, insecticide and fertilizer usage, will be in compliance with the City of Bellevue's "Environmental Best Management Practices."

City of Bellevue Submittal Requirements	<b>27</b>
<b>ENVIRONMENTAL CHECKLIST</b>	
12/21/00	
<p><i>Thank you in advance for your cooperation and adherence to these procedures. If you need assistance in completing the checklist or have any questions regarding the environmental review process, please visit or call the Permit Center (425-452-6864) between 8 a.m. and 4 p.m., Monday through Friday (Wednesday, 10 to 4). Our TTY number is 425-452-4636.</i></p>	
<p><b>INTRODUCTION</b></p> <p><b>Purpose of the Checklist:</b></p> <p>The State Environmental Policy Act (SEPA), chapter 43.21c RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the City of Bellevue identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the City decide whether an EIS is required.</p> <p><b>Instructions for Applicants:</b></p> <p>This environmental checklist asks you to describe some basic information about your proposal. Answer the questions briefly, with the most precise information known, or give the best description you can. You must answer each question accurately and carefully, to the best of your knowledge. In most cases, you should be able to answer the questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write "do not know" or "does not apply." Complete answers to the questions now may avoid unnecessary delays later.</p> <p>Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the Planner in the Permit Center can assist you. The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. Include references to any reports or studies that you are aware of which are relevant to the answers you provide. The City may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impacts.</p> <p><b>Use of a Checklist for Nonproject Proposals:</b> <i>A nonproject proposal includes plans, policies, and programs where actions are different or broader than a single site-specific proposal.</i></p> <p>For nonproject proposals, complete the Environmental Checklist even though you may answer "does not apply" to most questions. In addition, complete the Supplemental Sheet for Nonproject Actions available from Permit Processing.</p> <p>For nonproject actions, the references in the checklist to the words <i>project</i>, <i>applicant</i>, and <i>property</i> or <i>site</i> should be read as <i>proposal</i>, <i>proposer</i>, and <i>affected geographic area</i>, respectively.</p> <p><b>Attach an 8½" x 11" vicinity map which accurately locates the proposed site.</b></p>	

City of Bellevue Submittal Requirements	<b>27a</b>
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**ENVIRONMENTAL CHECKLIST**

12/21/00

If you need assistance in completing the checklist or have any questions regarding the environmental review process, please visit or call the Permit Center (425-452-6864) between 8 a.m. and 4 p.m., Monday through Friday (Wednesday, 10 to 4). Our TTY number is 425-452-4636.

**BACKGROUND INFORMATION**

Property Owner: **City of Bellevue**

Proponent: **City of Bellevue – Parks and Community Services Department, Attn: Geoff Bradley**  
**450 110<sup>th</sup> Ave NE**  
**Bellevue, WA 98004**  
**(425) 452-2740**

Contact Person: **The Watershed Company, Attn: Kenny Booth**  
 (If different from the owner. All questions and correspondence will be directed to the individual listed.)

Address: **750 Sixth Street South, Kirkland, WA 98033**

Phone: **(425) 822-5242**

Proposal Title: **Sunrise Park Trail Improvements**

Proposal Location (Street address and nearest cross street or intersection) Provide a legal description if available:

**Project is located on the southwest side of West Lake Sammamish Parkway SE just west of 176<sup>th</sup> Avenue SE, Bellevue, 98005, King County.**

**No address, tax parcel 132405-9119, legal description: POR G L 1 LY SLY OF W LK SAMMAMISH BLVD & ELY OF FOLG DESC LN BAAP ON S LN SD SUBD N 86-05-24 W 500 FT FR SE COR TH N 01-31-03 E 325 FT TH N 64-14-43 E 247.24 FT TO SWLY MGN SD RD & TERMINUS SD DESC LN LESS ST HWY**

**Additional work will occur within the Interstate 90 right-of-way.**

Please attach an 8½" X 11" vicinity map that accurately locates the proposal site.

Give an accurate, brief description of the proposal's scope and nature:

1. General description:

**The project site is located within the existing Sunrise Park. The park property, approximately 4.48 acres in size, is located along West Lake Sammamish Parkway SE. A gravel parking area, which accommodates approximately 4 to 5 vehicles, is located directly adjacent to the roadway. The park includes an asphalt trail that extends from the parking area in a southerly direction, eventually extending off the park property into the Interstate 90 right-of-way and connecting with the Mountains-to-Sound Trail. The trail corridor includes a wooden footbridge with concrete abutments and a pea-gravel overlook. The trail shoulder areas (extending approximately two feet on either side of the trail) are typically compacted bare dirt. The City of Bellevue Parks and Community Services Department proposes to improve the trail corridor by widening the asphalt pavement to a width of 10 feet, removing the pea-gravel overlook, extending two small drainage pipes, installing an Envirolock bagged retaining wall system, adding new trail signage, and restoring**

**disturbed and degraded areas with native plantings. Additional site improvements include a new parallel parking alignment, a new paved connection to the walkway along West Lake Sammamish Parkway SE, and two new kiosks. Detailed plans are attached.**

2. Acreage of site: **Tax parcel 132405-9119 is approximately 4.48 acres (195,149 square feet). However, the project area (where construction will occur) is approximately 30,482 square feet (0.70 acre).**
3. Number of dwelling units/buildings to be demolished: **None**
4. Number of dwelling units/buildings to be constructed: **None**
5. Square footage of buildings to be demolished: **N/A**
6. Square footage of buildings to be constructed: **N/A**
7. Quantity of earth movement (in cubic yards): **Cut: 100 cubic yards / Fill: 80 cubic yards**
8. Proposed land use: **The project area is located within Sunrise Park. The project area currently contains an asphalt trail and bridge over Sunrise Creek. There are no changes proposed to the existing land use.**
9. Design features, including building height, number of stories, and proposed exterior materials: **The applicant proposes to widen an existing asphalt trail and install native plantings. Trail signage and kiosks will also be added. The widened trail will consist of additional asphalt surfacing. Signage and kiosks will be constructed of wood materials. The kiosks will stand approximately 8.5-foot tall.**
10. Other

Estimated date of completion of the proposal or timing of phasing:

**Once started, trail widening, improvements and native planting should take approximately four to six weeks. It is anticipated that construction would occur sometime in summer 2013.**

Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

**None at this time.**

List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

***Sunrise Park Trail Improvements – Stream Study. The Watershed Company. March 8, 2013.***

Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain. List dates applied for and file numbers, if known.

**No such applications are pending.**

List any government approvals or permits that will be needed for your proposal, if known. If permits have been applied for, list application date and file numbers, if known.

**Critical Areas Land Use Permit – submitted concurrently with this SEPA Checklist (City of Bellevue)**

**Clearing and Grading Permit – submitted concurrently with this SEPA Checklist (City of Bellevue)**

Please provide one or more of the following exhibits, if applicable to your proposal.  
(Please check appropriate box(es) for exhibits submitted with your proposal):

- Land Use Reclassification (rezone)  
Map of existing and proposed zoning
- Preliminary Plat or Planned Unit Development  
Preliminary plat map
- Clearing & Grading Permit  
Plan of existing and proposed grading  
Development plans
- Building Permit (or Design Review)  
Site plan  
Clearing & grading plan
- Shoreline Management Permit  
Site plan

A. ENVIRONMENTAL ELEMENTS

1. EARTH

- a. General description of the site (circle one):  Flat Rolling Hilly Steep slopes Mountains Other:

**The subject site is relatively flat near West Lake Sammamish Parkway SE and slopes upward near the southern portion of the site. The trail cuts through the park and rises from an elevation of approximately 90 feet at West Lake Sammamish Parkway to 140 feet at its connection to the Mountains-to-Sound Trail.**

- b. What is the steepest slope on the site (approximate percent slope)?

**The steepest slope on-site is approximately 50%, located along the west edge of the existing trail.**

- c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.

**According to the King County Soil Survey, the site is mapped as Kitsap silt loam, 15 to 30 percent slopes, and Everett-Alderwood gravelly sandy loams, 6 to 15 percent slopes.**

- d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

**No indications of unstable soils were observed.**

- e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.

	FILL	CUT
Type and Quantity	-Topsoil: 20 c.y. -Compost: 20 c.y. -Pea Gravel/base material: 40 c.y.	Asphalt: 100 c.y.
Total	80 c.y.	100 c.y.
Fill Source	Local source	

- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

**Erosion could occur if exposed soils are mobilized by rainfall. Short-term erosion may occur during trail construction and in areas cleared of vegetation. However, any impacts would be short-term and the measures described below would help minimize erosion.**

- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

**The existing trail will be widened with asphalt, an impervious surface. Following project completion, approximately 10,921 square feet will be covered with impervious surfaces.**

- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

All clearing and grading construction would be in accordance with City of Bellevue Clearing and Grading Code (Chapter 23.76), permit conditions, and all other applicable codes, ordinances, and standards. To ensure that no impact to the stream occurs, the applicant proposes to use temporary erosion and sedimentation control measures such as silt fencing. The fencing would be installed around soil stockpile areas and exposed soils as necessary to prevent any silt-laden water from reaching adjacent waters during rainfall. Soil stockpile areas shall be located as close to West Lake Sammamish Parkway SE as feasible.

It is not anticipated that soils would be left exposed for more than two days. However, to ensure that erosion potential is minimized, disturbed soils shall be covered with straw, hydroseeded, or otherwise revegetated with native plants as soon after construction as possible. In all cases, exposed soils must be covered at the end of the construction week and also at the threat of rain.

## 2. AIR

- a. What types of emissions to the air would result from the proposal (i.e., dust, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.

**Any air quality impacts from construction-related vehicle trips would be temporary. Heavy equipment will be used for a short period of time during the construction process. After project completion, no further impacts to air would occur.**

- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

**There are no off-site sources of emissions that will affect the project.**

- c. Proposed measures to reduce or control emissions or other impacts to air, if any:

**Standard methods of reducing impacts to air would be utilized, and include keeping all heavy equipment and hand-held power equipment in good operating condition and managing disturbed soils as described above under 1h.**

## 3. WATER

- a. Surface:

- 1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

**The project site includes Sunrise Creek, a Type F water per the City's critical areas overlay district regulations.**

- 2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

**The entirety of proposed work will occur within 200 feet of Sunrise Creek. Detailed plans are attached.**

- 3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

**No fill below the ordinary high water mark of the stream is proposed. Portions of improvements will occur within the stream buffer.**

- 4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

**No.**

- 5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

**No. The project site does not lie within a 100-year floodplain.**

- 6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

**No intentional discharges of waste materials would occur during project construction.**

b. Ground

1. Will ground water be withdrawn, or will water be discharged to ground water? Give a general description, purpose, and approximate quantities if known.

**There will be no withdrawal of or discharge to ground water associated with this project.**

- 2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals. . . ; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

**There will be no waste material from septic tanks or other sources discharged into the ground as part of this project.**

c. Water runoff (including stormwater):

1. Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

**The proposed widened trail (new impervious surface) will drain to adjacent vegetated areas for infiltration.**

- 2) Could waste materials enter ground or surface waters? If so, generally describe.

**It is not expected that waste materials will enter the on-site stream channel. Staging would occur adjacent to West Lake Sammamish Parkway SE, as far from the on-site critical areas as feasible.**

- d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:

**The erosion control measures described under question 1h would help control impacts to surface and runoff water. In addition, all heavy equipment and hand-held power equipment would be in good working order.**

**4. PLANTS**

a. Check or circle types of vegetation found on the site:

- deciduous tree: **alder, maple**, aspen, other:
- evergreen tree: **fir, cedar**, pine, other:
- shrubs: **Himalayan blackberry, salmonberry, sword fern, osoberry, red huckleberry, beaked hazelnut**
- pasture
- crop or grain
- wet soil plants: cattail, buttercup, bulrush, skunk cabbage, other:
- water plants: water lily, eelgrass, milfoil, other:
- other types of vegetation:

b. What kind and amount of vegetation will be removed or altered?

**Approximately 4,557 square feet of vegetation (native and non-native) will be removed from the site, including Himalayan blackberry. Two cedar trees will be turned into snags.**

c. List threatened or endangered species known to be on or near the site.

**No threatened or endangered plant species are known to be on or near the site.**

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

**Approximately 9,600 square feet of native plantings are proposed along the trail corridor. Proposed native plantings include oceanspray, snowberry, beaked hazelnut, sword fern, low Oregon grape, bald hip rose, evergreen huckleberry, western trillium, red flowering currant, redwood sorrel, salal, and bleeding heart.**

**5. ANIMALS**

a. Circle any birds and animals which have been observed on or near the site or are known to be on or near the site:

- birds: **hawk, heron, eagle, songbirds**, other: **blackbirds, chickadees, wrens, finches, robins**
- mammals: deer, bear, elk, beaver, other:
- fish: bass, salmon, trout, herring, shellfish, other:

b. List any threatened or endangered species known to be on or near the site.

**No threatened or endangered animal species are known to be on or near the site.**

c. Is the site part of a migration route? If so, explain.

**No.**

d. Proposed measures to preserve or enhance wildlife, if any:

**The proposed project will enhance wildlife habitat through the removal of invasive species and the planting of native species within the project area.**

## 6. ENERGY AND NATURAL RESOURCES

- a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

**Hand-held power equipment or a mower will be used for vegetation removal. Heavy equipment and hand-held power equipment will be used for the trail improvements. However, no energy will be necessary after the project is completed.**

- b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

**No.**

- c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

**No forms of energy are necessary for the completed project.**

## 7. ENVIRONMENTAL HEALTH

- a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.

**Typical hazards related to heavy equipment and electrical and gasoline-powered hand tools are associated with construction of the proposed project.**

- 1) Describe special emergency services that might be required.

**Emergency services are not anticipated at the site. In the unlikely event that an accident (spill, fire, other exposure) occurs involving toxic chemicals or hazardous wastes, the local Fire Department's Hazardous Materials Team would respond. If necessary, local medical services might also be required. Safety and accident response supplies would be on-site to treat emergencies during construction.**

- 2) Proposed measures to reduce or control environmental health hazards, if any:

**Standard precautions would be taken to ensure the safety of the work crew. The construction manager would be contacted by a crew member immediately upon discovery of a spill. The construction manager would then ensure that the spill is cleaned up in the manner dictated by the chemical use instructions and would contact the appropriate authorities.**

- b. Noise

- 1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

**The project site is located adjacent to West Lake Sammamish Parkway SE, a heavily traveled road.**

- 2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

Noise associated with the proposed project would include heavy equipment and hand-operated power tools during the construction phase. Construction noise would be limited to normal daytime working hours as dictated by the City of Bellevue's noise policy. The only noise generated by the proposed project would be that of trail users (pedestrians, cyclists, strollers, etc.). There would be no significant long-term noise associated with the proposed project.

- 3) Proposed measures to reduce or control noise impacts, if any:

**As mentioned above, noise would be limited to normal daytime working hours. No other noise-control measures are necessary.**

## 8. LAND AND SHORELINE USE

- a. What is the current use of the site and adjacent properties?

**The City of Bellevue Parks and Community Services Department currently owns the parcel upon which improvements are proposed. The parcel is designated open space. The Interstate 90 right-of-way corridor is located south of the parcel, the Sammamish Bible Camp is located east of the parcel, and single-family residences are located west and north of the parcel.**

- b. Has the site been used for agriculture? If so, describe.

**No.**

- c. Describe any structures on the site.

**There are currently no structures on the site.**

- d. Will any structures be demolished? If so, what?

**No structures are proposed for demolition.**

- e. What is the current zoning classification of the site?

**The parcel is zoned Single-Family Residential (R-5).**

- f. What is the current comprehensive plan designation of the site?

**The parcel is designated as Parks/Single-Family Residential – High Density (P/SF-H).**

- g. If applicable, what is the current shoreline master program designation of the site?

**N/A**

- h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.

**The project site includes Sunrise Creek, a Type F water. The stream is considered an "environmentally sensitive" area. An application for a Critical Areas Land Use Permit to allow for disturbances within the sensitive area buffer is being submitted concurrently with this checklist.**

- i. Approximately how many people would reside or work in the completed project?

**No person will reside or work in the completed project.**

- j. Approximately how many people would the completed project displace?

**No person will be displaced as a result of this project.**

- k. Proposed measures to avoid or reduce displacement impacts, if any:

**Does not apply.**

- l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

**The improved trail is in accordance with the City's long-term goal of making open and natural spaces accessible to citizens for passive recreation.**

## 9. HOUSING

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

**None.**

- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

**None.**

- c. Proposed measures to reduce or control housing impacts, if any:

**Does not apply.**

## 10. AESTHETICS

- a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

**In addition to widening the existing trail, the proposed project includes two kiosks. The kiosk will stand 8.5-feet tall and will be made of wood. No other structures are proposed as part of the project.**

- b. What views in the immediate vicinity would be altered or obstructed?

**Parking upgrades and portions of the trail improvements will be visible from West Lake Sammamish Parkway SE. Otherwise trail improvements and restoration plantings will be visible to trail users within the park.**

- c. Proposed measures to reduce or control aesthetic impacts, if any:

**No measures are necessary.**

**11. LIGHT AND GLARE**

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

**No light or glare will be produced by the proposed project.**

- b. Could light or glare from the finished project be a safety hazard or interfere with views?

**No.**

- c. What existing off-site sources of light or glare may affect your proposal?

**None.**

- d. Proposed measures to reduce or control light and glare impacts, if any:

**No measures are necessary.**

**12. RECREATION**

- a. What designated and informal recreational opportunities are in the immediate vicinity?

**The proposed trail improvements are located within Sunrise Park. The park offers a picnic area and trails.**

- b. Would the proposed project displace any existing recreational uses? If so, describe.

**No. The proposed project will enhance passive recreational use within the area.**

- c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

**No measures are necessary.**

**13. HISTORIC AND CULTURAL PRESERVATION**

- a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.

**No places or objects of this type are known to exist in the immediate vicinity.**

- b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.

**There is no known evidence of historic or cultural importance on the project site.**

- c. Proposed measures to reduce or control impacts, if any:

**Should historic, archeological, scientific or cultural significant items be encountered during implementation of this project, work would be temporarily stopped while the appropriate agencies are notified.**

**14. TRANSPORTATION**

- a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.

**The proposed project will improve an existing trail within Sunrise Park that provides a link between West Lake Sammamish Parkway SE and the Mountains-to-Sound Trail running parallel to Interstate 90.**

- b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?

**The nearest King County Metro transit stop is located at the corner of West Lake Sammamish Parkway SE and SE 40<sup>th</sup> Place, approximately 0.15 mile northwest of the park entrance.**

- c. How many parking spaces would the completed project have? How many would the project eliminate?

**This project site currently offers an informal parking area with room for approximately four to five vehicles. Parking area improvements are expected to maintain or increase the level of parking.**

- d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).

**The proposed project involves the widening of an existing pedestrian trail. No impacts/improvements to roads or streets will occur.**

- e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

**Water, rail, or air transportation would not be utilized by the completed project.**

- f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.

**The completed project is not expected to alter the number of vehicular trips per day generated by the existing park.**

- g. Proposed measures to reduce or control transportation impacts, if any:

**None.**

**15. PUBLIC SERVICES**

- a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.

**No increase in public service needs will result from this project.**

- b. Proposed measures to reduce or control direct impacts on public services, if any.

**None.**

**16. UTILITIES**

- a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other.

**No utilities are currently available at the site.**

- b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

**No new utilities are proposed as part of the project.**

**Signature**

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

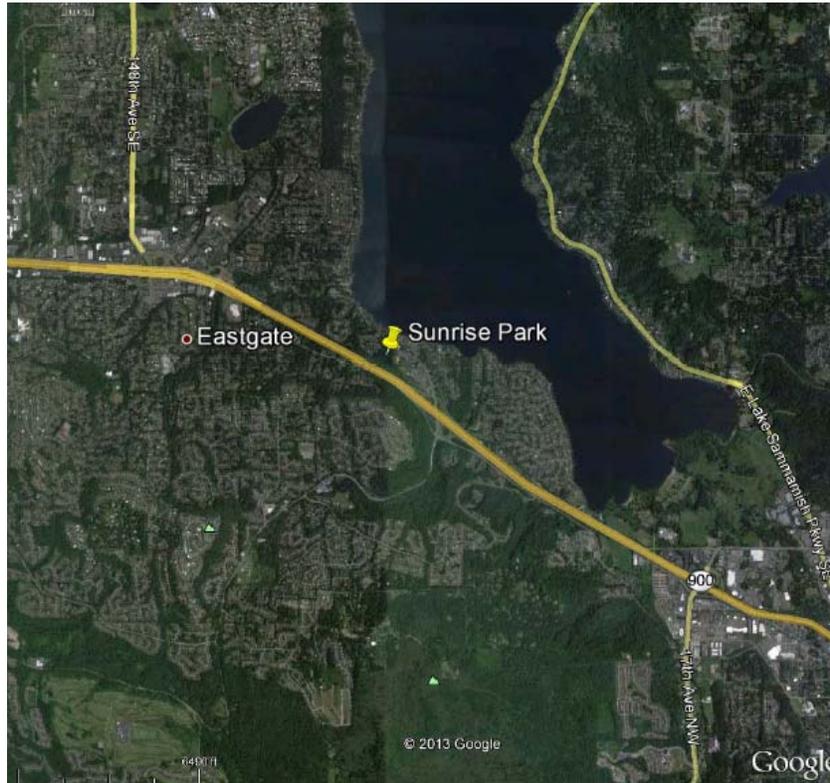
Signature



\_\_\_\_\_  
Kenny Booth, AICP

Date Submitted: \_\_\_\_\_

**Vicinity Map** from Google Earth (top) and iMAP (bottom)



# Sunrise Park Trail Project

# City of Bellevue, WA



## EXISTING CONDITIONS

LOOKING EAST ALONG WEST LAKE SAMMAMISH PARKWAY SE TOWARDS TRAILHEAD AND SUNRISE PARK TRAIL ENTRANCE



PROJECT LOCATION

## VICINITY MAP

NTS



## CONSTRUCTION NOISE NOTES:

Construction noise outside the allowable hours is prohibited per BCC 9.18.040. To be considered a violation, the construction-related noise must be audible across a property line or at least 75 feet from the source. Any violation is a civil infraction and the City may assess a monetary penalty to the individual creating the noise. The penalties are:

- A warning will be issued if no construction noise violation has been committed by the same person within the previous two years at any location within the City.
- A citation will be issued and a \$125 fine imposed if one previous violation has been committed by the same person within the previous two years at any location within the City.
- A citation will be issued and a \$250 fine imposed if two or more previous violations have been committed by the same person within the previous two years at any location within the City.

### FOR ALL COMMERCIAL, MULTI-FAMILY, AND NEW SINGLE-FAMILY HOMES:

#### Construction-related noise is allowed:

- 7 am to 6 pm on weekdays
- 9 am to 6 pm on Saturdays

#### Construction -related noise is not allowed:

- Outside of allowable hours
- Legal holidays
- Sundays

## CLEARING AND GRADING STANDARD NOTES:

1. All clearing & grading construction must be in accordance with City of Bellevue (COB) Clearing & Grading Code; Clearing & Grading Erosion Control Standard Details (EC-1 through EC-23); Development Standards; Land Use Code; Uniform Building Code; permit conditions; and all other applicable codes, ordinances, and standards. The design elements within these plans have been reviewed according to these requirements. Any variance from adopted erosion control standards is not allowed unless specifically approved by the City of Bellevue Department of Planning & Community Development (PCD) prior to construction.
2. A copy of the approved plans must be on-site during construction. The applicant is responsible for obtaining any other required or related permits prior to beginning construction.
3. All locations of existing utilities have been established by field survey or obtained from available records and should, therefore, be considered only approximate and not necessarily complete. It is the sole responsibility of the contractor to independently verify the accuracy of all utility locations and to discover and avoid any other utilities not shown which may be affected by the implementation of this plan.
4. The area to be cleared and graded must be flagged by the contractor and approved by the clearing & grading inspector prior to beginning any work on the site.
5. A reinforced silt fence must be installed in accordance with COB EC-5 and located as shown on the approved plans or per the clearing & grading inspector, along slope contours and down slope from the building site.
6. Clearing will be limited to the areas within the approved disturbance limits. Exposed soils must be covered at the end of each working day when working from October 1st through April 30th. From May 1st through September 30th, exposed soils must be covered at the end of each construction week and also at the threat of rain.
7. Any excavated material removed from the construction site and deposited on property within the City limits must be done in compliance with a valid clearing & grading permit. Locations for the mobilization area and stockpiled material must be approved by the clearing & grading inspector at least 24 hours in advance of any stockpiling.
8. To reduce the potential for erosion of exposed soils, or when rainy season construction is permitted, the following Best Management Practices (BMPs) are required: Preserve natural vegetation for as long as possible or as required by the clearing & grading inspector. Protect exposed soil using plastic (EC-14), erosion control blankets, straw or mulch (COB Guide to Mulch Materials, Rates, and Use Chart), or as directed by the clearing & grading inspector. Install catch basin inserts as required by the clearing & grading inspector or permit conditions of approval. Install a temporary sediment pond, a series of sedimentation tanks, temporary filter vaults, or other sediment control facilities. Installation of exposed aggregate surfaces requires a separate effluent collection pond on-site.
10. Final site grading must direct drainage away from all building structures at a minimum 2% slope, per the Uniform Building Code, if applicable.
11. The contractor must maintain a sweeper on-site during earthwork and immediately remove soil that has been tracked onto paved areas as result of construction.
12. A public information sign listing 24-hour emergency phone numbers for the city and the contractor may be provided to the applicant at the time the clearing & grading permit is issued. The applicant must post the sign at the project site in full view of the public and the contractors, and it must remain posted until final sign-off by the clearing & grading inspector.
13. Turbidity monitoring may be required as a condition of clearing & grading permit approval. If required, turbidity monitoring must be performed in accordance with the approved turbidity monitoring plan and as directed by the clearing & grading inspector. Monitoring must continue during site (earthwork) construction until the final sign-off by the clearing & grading inspector.
14. Any project that is subject to Rainy Season Restrictions will not be allowed to perform clearing & grading activities without written approval from the PCD director. The rainy season extends from November 1st through April 30th, as defined in section 23.76.093A of the Clearing & Grading Code.

## TRAIL REMOVAL NOTES:

1. Portions of existing asphalt trail to be removed are noted on the Existing Conditions in this set.
2. Limit negative impacts such as soil compaction, erosion, and sedimentation as required in the Western Washington Stormwater Manual.
3. Existing Trail Removal and Site Enhancement: Remove existing asphalt and base materials, scarify trail soil to a 2" depth before placing out soil, and plants. Do not scarify where tree roots greater than 1/2" diameter occur. Where mechanized equipment cannot access areas to scarify existing trails the Contractor shall employ other means and methods such as hand tools (forks, hoe-dads, and pulaski) to scarify soil.
4. Scarification shall be in areas where existing asphalt is proposed to be removed only.
5. If any plants are to be relocated as part of this project, they shall be heeled in and roots and rhizomes protected from drying out. Maintain an even moisture content in root masses and root balls.
6. Install all plants transplanted at the same depth they were dug.
7. All logs 6" DBH and larger shall be kept on site and used for trail removal and enhancement. Logs smaller than 6" DBH may be either disposed of off site or chipped on to areas identified to receive wood chips on site, as directed by the Owner.
8. Remove or chip branches 3" diameter and greater, as measured from the branch collar, from logs used in the removal of existing user paths.
9. Plant shrubs as directed in the field by the Owner.
10. New plants to be planted within the work limits will be maintained for a period of 3 years. See Planting Plan this set for species, quantities, and locations.

## MITIGATION:

PROJECT AREA: 30,482 square feet

Total net area impacted to stream 50' buffer: 9,601 SF

### MITIGATION:

Total area impacted to stream 50' buffer:

Finished asphalt within stream buffer:	7,081 SF
Impacts related to grading/work:	5,139 SF
SUBTRACT existing asphalt to receive overlay:	-2,599 SF
<b>TOTAL IMPACT TO STREAM BUFFER:</b>	<b>9,601 SF</b>

COB 20.25H.85.B requires minimum 1:1 buffer mitigation ratio.

9,601 SF of stream buffer mitigation required

Minimum 9,601 SF new planting area provided utilizing COB 20.25H.85.A.2, enhancement of the functions and values of the existing stream buffer

## GENERAL NOTES:

1. All construction must be in accordance with the City of Bellevue's Development Standards; the City of Bellevue's Engineering and Utility Standards; the Bellevue City Code; the Uniform Building Codes; permit conditions; and all other applicable codes, ordinances, standards and policies. Applicable installation details are incorporated by reference to Bellevue's Engineering and Utilities published Standards. All applicable erosion control measures must be taken.
2. A copy of the approved plans must be on-site whenever construction is in progress.
3. The Contractor is responsible for obtaining any mechanical, electrical or other required permits prior to beginning construction.
4. All locations of existing utilities have been established by field survey or obtained from available records and should, therefore, be considered approximate only and not necessarily complete. It is the sole responsibility of the contractor (1) to independently verify the accuracy of all utility locations and (2) to discover and avoid any other utilities not shown which may be affected by the implementation of this plan. Note that no existing utilities have been researched or verified in any areas between proposed work limits up to, and including, the staging area.
5. Site shall be restored to better or equal condition in any areas affected by this work.
6. Scheduling: All work shall be coordinated with Owner to achieve minimal disturbance to roadway operation.
7. Contractor shall have proven experience in similar projects and be thoroughly familiar with City of Bellevue applicable standards and codes prior to commencement of work.
8. This layout is diagrammatic. Contractor shall coordinate exact location of points of connection to existing systems with Owner prior to beginning any work.
9. Prior to commencing work, the Contractor, the City's Inspectors and the Owner's Representatives shall meet on the site to review existing site conditions. Logistical items will be determined at the pre-construction meeting and subsequent construction meetings, including the specific locations and methods to be used for staging, trail closure locations and timing, fencing materials, and coordination of boardwalk and trail work with Western Wood Structure Bridge work (NIC). The Contractor is to coordinate with Owner's representative on all construction logistical items not explicitly described in the drawings and specifications.

## PROJECT DESCRIPTION:

Contracted work includes: site preparation, environmental protection, minor earthwork and drainage, widen existing asphalt path to a width of 10' (including sub-grade prep and crushed rock install), approximately 1000+ square feet of Envirolok bagged retaining wall system, restoration planting, trail signage, trail removal, tree removal and snag creation, and site restoration. For technical questions, call Barker Landscape Architects, (Jeff) 206-783-2870.

## CONTACTS:

### Client:

Bellevue Parks and Community Services  
Dan Dewald,  
Project Manager  
450 110th Ave. NE, P.O. Box 90012  
Bellevue, WA. 98009  
tel: (425) 452-6885

### Surveyor:

Lovell-Sauerland Surveyors  
Contact: Jeff Treiber  
19217 36th Ave West, Suite 106  
Lynnwood, WA 98036  
phone 425-775-1591  
jefft@lsaengineering.com

### Landscape Architect:

Barker Landscape Architects  
Contact: Jeff Varley  
3002 NW 68th Street  
Seattle, WA 98117  
phone 206-783-2870  
fax 206-783-8312  
jeff@barkerla.com

## DRAWING INDEX

- 1 COVER
- 2 EXISTING CONDITIONS
- 3 TESC / DEMO PLAN
- 4 LAYOUT & GRADING PLAN
- 5 LAYOUT & GRADING PLAN
- 6 PLANTING PLAN
- 7 SIGNAGE DETAILS
- 8 DETAILS
- 9 ENVIROLOK DETAILS

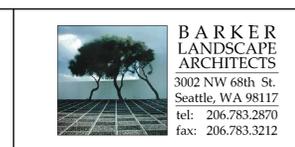
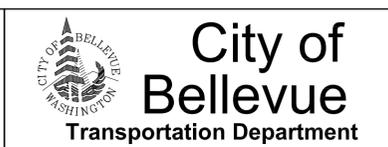
### CALCULATIONS:

TOTAL PROJECT SITE (Sunrise Park):	195,149 SF
AREA WITHIN WORK LIMITS:	30,482 SF
EXISTING IMPERVIOUS SURFACES:	7,923 SF
<small>(Existing trailhead/parking plus existing asphalt trail north and south of footbridge)</small>	
PERCENTAGE OF EXISTING IMPERVIOUS SURFACES:	7,923 / 30,482 = 25.99%
TOTAL CLEARING:	4,557 SF
NEW IMPERVIOUS SURFACES:	
New SF for 10' width asphalt (north of footbridge):	+710 SF
New SF for 10' width asphalt (south of footbridge):	+3,847 SF
TOTAL NEW IMPERVIOUS SURFACES:	4,557 SF
REPLACED IMPERVIOUS SURFACES:	0 SF
NEW + REPLACED IMPERVIOUS SURFACES:	4,557 SF
EXISTING IMPERVIOUS SURFACES TO BE CONVERTED TO PERVIOUS:	1,559 SF
NET INCREASE IN IMPERVIOUS SURFACES:	
New Impervious surface:	4,557 SF
Existing impervious surface converted to pervious:	-1,559 SF
TOTAL NET INCREASE:	+2,998 SF
MATERIAL EXPORT/IMPORT:	
Estimated Cut: +/-100 cubic yards (on-site materials re-used, existing asphalt export)	
Estimated Fill (on-site materials re-used): +/- 80 cubic yards	

NO.	DATE	BY	APPR.	REVISIONS
1	3.27.13	JV	JB	REVISED SITE CALCULATIONS

Approved By	
TRANSPORTATION DESIGN MANAGER	DATE
PROJECT MANAGER	DATE
	DATE

JV,NM	08/10/12
DESIGNED BY	DATE
JV,NM	08/10/12
DRAWN BY	DATE
JB	08/10/12
CHECKED BY	DATE



**Sunrise Park Trail Project**  
**West Lake Sammamish Pkwy SE**  
**Bellevue, WA 98008**

<h1>COVER SHEET</h1>	
SHT	1 OF 9



**LEGAL DESCRIPTION**  
 THAT PORTION OF GOVERNMENT LOT 1 IN SECTION 13, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., IN KING COUNTY, WASHINGTON, LYING SOUTHERLY OF WEST LAKE SAMMAMISH BOULEVARD AND EASTERLY OF A LINE DESCRIBED AS FOLLOWS:  
 BEGINNING AT A POINT ON THE SOUTH LINE OF SAID SUBDIVISION FROM WHICH THE SOUTHEAST CORNER OF SAID SUBDIVISION BEARS S 86°05'24" E, A DISTANCE OF 500 FEET;  
 THENCE N 1°31'03" E, 325 FEET;  
 THENCE N 64°14'43" E, 247.24 FEET TO THE SOUTHWESTERLY MARGIN OF WEST LAKE SAMMAMISH BOULEVARD AND THE TERMINUS OF SAID LINE;  
 EXCEPT THAT PORTION THEREOF WHICH LIES WITHIN THE RIGHT FOR STATE HIGHWAY.  
 SUBJECT TO EASEMENTS, RESTRICTIONS AND RESERVATIONS OF RECORD.

**BASIS OF BEARINGS**  
 THE CALCULATED BEARING BETWEEN CITY OF BELLEVUE CONTROL POINTS 1895 AND 1896 N 70°01'18" W.  
 DATUM : NAD83 (NSRS2007)

**BENCH MARK**  
 CITY OF BELLEVUE CONTROL POINT NUMBER 1896, BEING A CONCRETE MONUMENT IN CASE.  
 ELEVATION : 88.04  
 DATUM : NAVD 1988

**UTILITY NOTE**  
 THE LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON IS APPROXIMATE ONLY. THIS SURVEY DOES NOT PURPORT TO SHOW THE LOCATION OF ALL UTILITIES. THE OWNER SHOULD CONTACT THE PURVEYORS OF ALL UTILITIES IN THE AREA TO DETERMINE THE LOCATION AND DEPTH OF ALL UTILITIES ON AND ADJACENT TO THE PROPERTY.

**NOTE**  
 THE COURSES AND DISTANCES SHOWN HEREON FOR THE BOUNDARIES OF THE PROPERTY ARE BASED UPON RECORD INFORMATION AND AS SUCH ARE SUBJECT TO VERIFICATION BY AN ACTUAL SURVEY OF THE PROPERTY.

**EXISTING CONDITIONS LEGEND**

- Wood Rail Fence
- 50' Stream Buffer, Estimated
- 100 Topography Contour
- 102 Topography Contour
- Mountains to Sound Trail
- CREEK
- Portion of Creek Surveyed by Lovell-Sauerland Assoc.
- Creek, Not Surveyed. Source: City of Bellevue GIS
- Concrete Bridge Abutment, both sides
- Wood Pedestrian Bridge
- Small Diameter Drainage Pipe Under Existing Path
- Surveyed Pipe Invert Elevations
- Corrugated Metal Pipe Arch Under Trail
- Rockery
- 18" MAPLE Deciduous Tree
- 22" CHESTNUT Deciduous Tree
- 15" ALDER Deciduous Tree
- 32" CEDAR Evergreen Tree
- 32" FIR Evergreen Tree
- Existing Pea Gravel Gathering Area w/ Timber Edging

Existing 50' stream buffer as shown on City of Bellevue GIS information

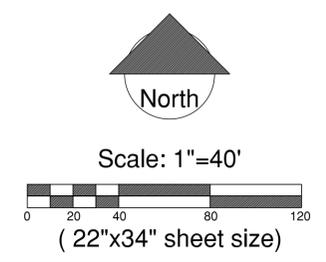
Existing stream as shown on City of Bellevue GIS information

Existing Mountains-to-Sound trail as shown on City of Bellevue GIS information

Portion of existing Mountains-to-Sound trail as surveyed by Lovell-Sauerland & Associates

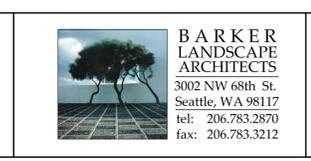
**EXISTING CONDITIONS**

Source: Lovell-Sauerland & Associates, Inc survey dated 6-4-12

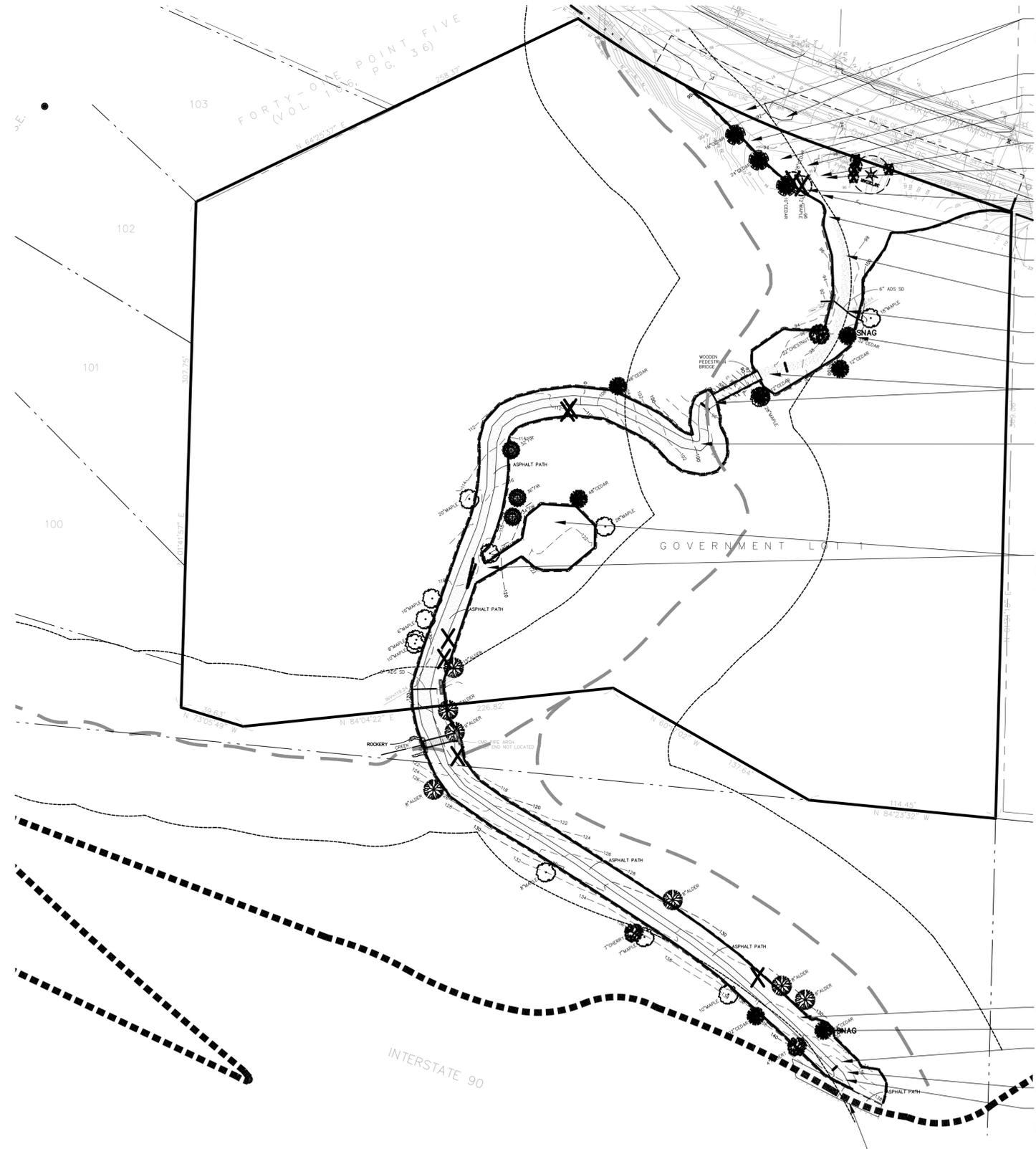


NO.	DATE	BY	APPR.	REVISIONS
1	3.27.13	JV	JB	REVISED SITE CALCULATIONS

Approved By		JV, NM	DATE
TRANSPORTATION DESIGN MANAGER	DATE	DESIGNED BY	08/10/12
PROJECT MANAGER	DATE	DRAWN BY	08/10/12
	DATE	CHECKED BY	08/10/12



**Sunrise Park Trail Project**  
**West Lake Sammamish Pkwy SE**  
**Bellevue, WA 98008**



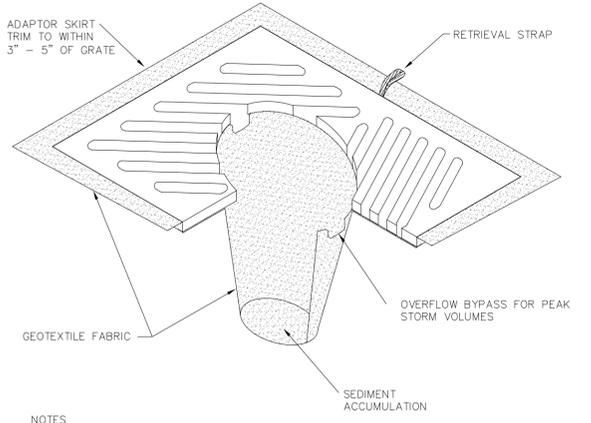
- Remove all portions of existing informal parking
- Remove existing guardrail
- Remove existing sign
- Existing asphalt to be removed
- Existing bollard to be removed
- Existing wood rail fence to be removed (both sides)
- Existing trash receptacle to be stockpiled for future use
- Existing fence to be removed
- Existing trail info sign to be stockpiled for future use
- Maintain existing asphalt path during construction
- Existing drainage pipe to be retained
- Existing tree to be turned into snag
- Cut existing asphalt back far enough to be able to provide smooth transition between existing footbridge and new asphalt
- Portion of existing asphalt trail to be removed
- Remove all portions of existing gathering area: Pea gravel, timber edging, asphalt path to area, and bench with concrete pad
- Existing trail info sign to be removed
- Existing tree to be turned into snag
- Grind/chip logs and brush. Spread out in work limits
- Existing bollard to be removed
- Cut existing asphalt back far enough to be able to provide smooth transition between existing Mts-to-Sound asphalt path
- Existing Mts-to-Sound Trail. Protect existing asphalt during construction

**TEMPORARY EROSION & SEDIMENTATION CONTROL NOTES:**

1. All clearing limits shall be visibly marked prior to clearing.
2. The constructed erosion control and sedimentation plan shall be approved by the City of Bellevue prior to performing any site grading or clearing.
3. The implementation of temporary erosion and sedimentation control (TESC) measures and the construction, maintenance, and replacement of these facilities is the responsibility of the contractor.
4. The TESC facilities must be constructed in conjunction with all construction activities and in such a manner as to ensure that sediment-laden water does not enter the creek.
5. The TESC facilities shall be inspected daily by the contractor and maintained as necessary or as directed by the engineer to ensure continuous functioning.
6. Stabilized construction entrances shall be installed at the beginning of construction and maintained for the duration of the project. Additional measures may be required to insure that all paved areas are kept clean for the duration of the project.
7. All catch basins in the vicinity of construction shall be protected with filter fabric placed between the frame and grate or as directed by the engineer. Clean regularly: no more than 1 inch of sediment will be allowed to accumulate over filter fabric.
8. Any area stripped of vegetation where no further work is anticipated for a period of 15 days shall be immediately stabilized with approved TESC methods such as mulching, erosion blankets, plastic sheeting or as directed by the engineer.
9. All steep slope excavations greater than 2:1 shall be covered at the end of each working day.
10. All disturbed areas shall be covered with wood chip mulch and jute fabric per planting detail.
11. Any vegetation not in the construction area shall be left undisturbed
12. Field-verify location of existing trees.
13. The TESC facilities are the minimum requirements for anticipated site conditions. During the construction period, these TESC facilities shall be upgraded by contractor as directed by the engineer for unexpected storm events.
14. All storm drain facilities within the project boundary are to be cleared of sediment and debris prior to final acceptance of the project.
15. All significant existing trees to be protected and preserved. Tree protection fencing for all trees is not feasible due to site terrain / vegetation density.

**TESC / DEMOLITION PLAN LEGEND**

- Limit of Work/Limits of Clearing & Grading
- Existing Drainage Pipe and Invert Elevations
- Existing Topography, Typical
- Existing Gathering Area to be Removed. See notes this sheet
- Existing Asphalt Path to be Removed
- Existing Asphalt Path to be retained. To receive additional overlay and be expanded to 10' width
- Existing Tree to be Turned into Snag
- Existing Tree to be Retained
- Existing Tree to be Removed
- Existing Signs, Trash Receptacle, and Bollards. See specific notes this sheet
- New Straw Bale for TESC. Drive into ground with 2"x2" doug fir stakes
- Coir Log and Filter Fabric Fence. See detail this set
- Asphalt Cut



- NOTES**
1. INSERT SHALL BE INSTALLED PRIOR TO CLEARING AND GRADING ACTIVITY, OR UPON PLACEMENT OF A NEW CATCH BASIN.
  2. SEDIMENT SHALL BE REMOVED FROM THE UNIT WHEN IT BECOMES HALF FULL.
  3. SEDIMENT REMOVAL SHALL BE ACCOMPLISHED BY REMOVING THE INSERT, EMPTYING, AND RE-INSERTING IT INTO THE CATCH BASIN.
- (A) CATCH BASIN INSERT**  
NTS

**TESC / DEMO PLAN**

Scale: 1" = 40'-0"



Scale: 1"=40'  
( 22"x34" sheet size)

NO.	DATE	BY	APPR.	REVISIONS
1	3.27.13	JV	JB	REVISED SITE CALCULATIONS

Approved By		JV,NM	08/10/12
TRANSPORTATION DESIGN MANAGER	DATE	DESIGNED BY	DATE
PROJECT MANAGER	DATE	DRAWN BY	DATE
	DATE	CHECKED BY	DATE

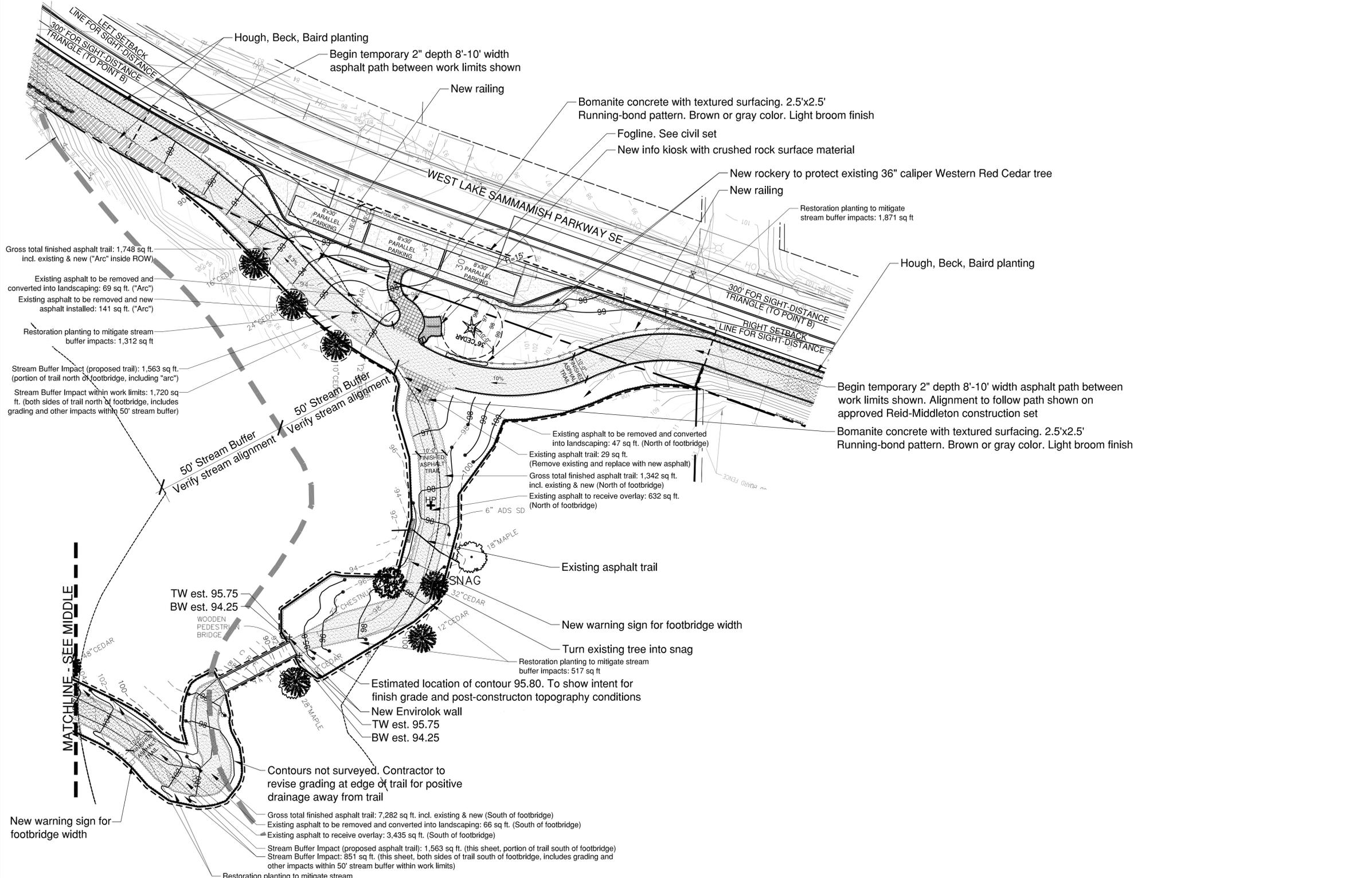
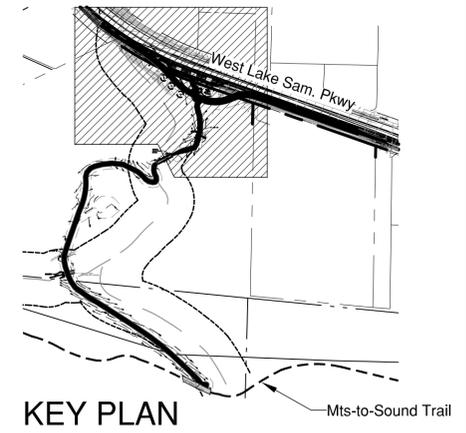


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fax: 206.783.3212

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**Bellevue, WA 98008**

**TESC/DEMO**

SHT 3 OF 9



**LAYOUT and GRADING PLAN LEGEND**

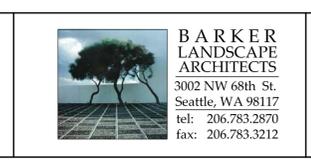
- Limit of Work
- Station 01+60 Trail Alignment Station, Typical
- ~ Proposed Contour
- New Railing
- SNAG (C) Existing Tree Cut/Pruned into Snag as directed by Landscape Architect
- New Asphalt Trail Alignment, 10' Width throughout, excl. Footbridge. New asphalt overlay on top of existing. 10' width new asphalt
- Existing Asphalt Path. Width varies
- New Envirolok Wall. Heights vary
- New Trail Sign
- New Bollard
- Vegetated Swale. Plant with native plants only. Arrows denote direction of flow after grading is complete
- Existing asphalt path and base material to be removed. Scarify existing soil and replant with native plants. Mulch top-dressing
- New 2-sided Information Kiosk
- HP+ High point
- LP+ Low point
- TW+ Estimated Top of wall. Field-verify prior to beginning work
- BW+ Estimated Bottom of wall. Field-verify prior to beginning work

**LAYOUT / GRADING PLAN - NORTH SECTION**

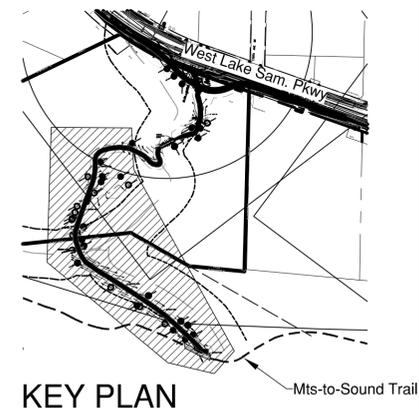
NO.	DATE	BY	APPR.	REVISIONS
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Approved By

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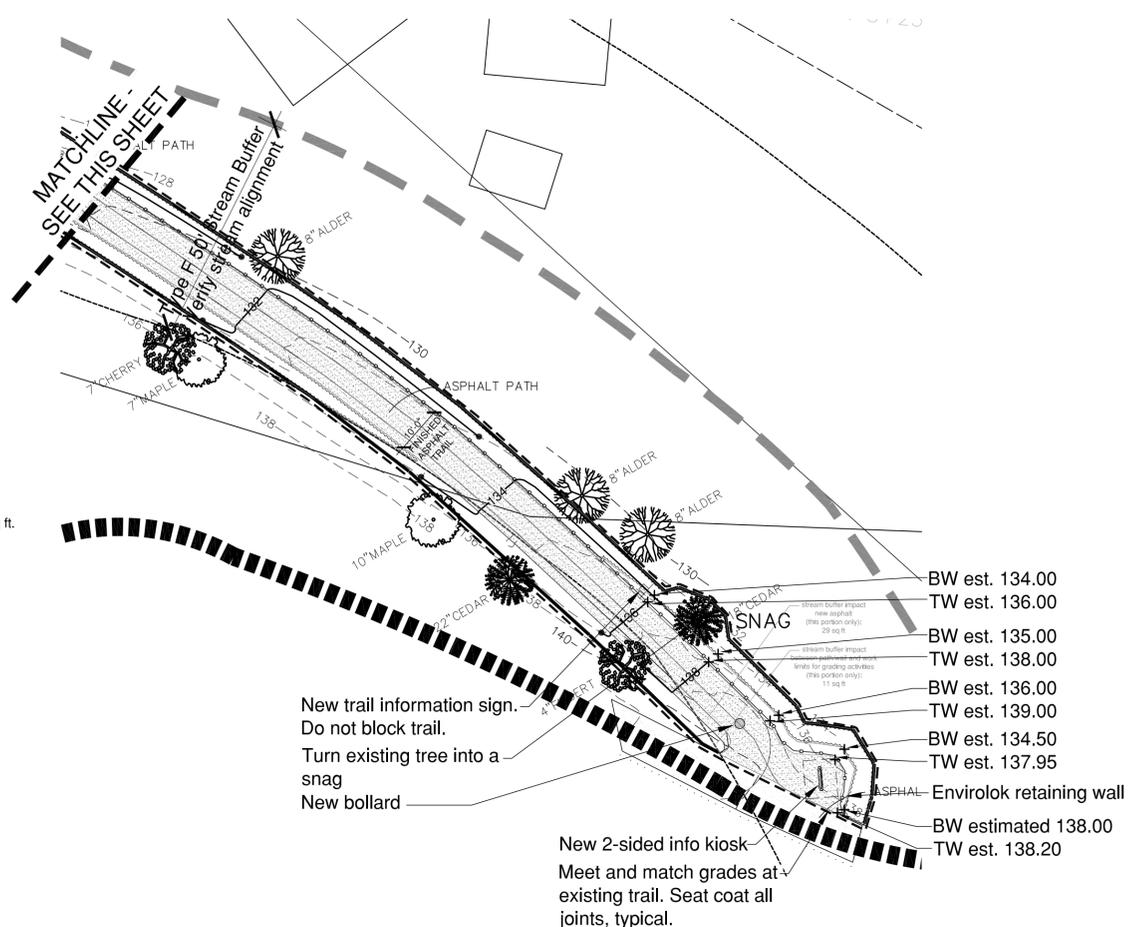
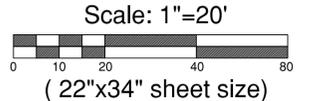
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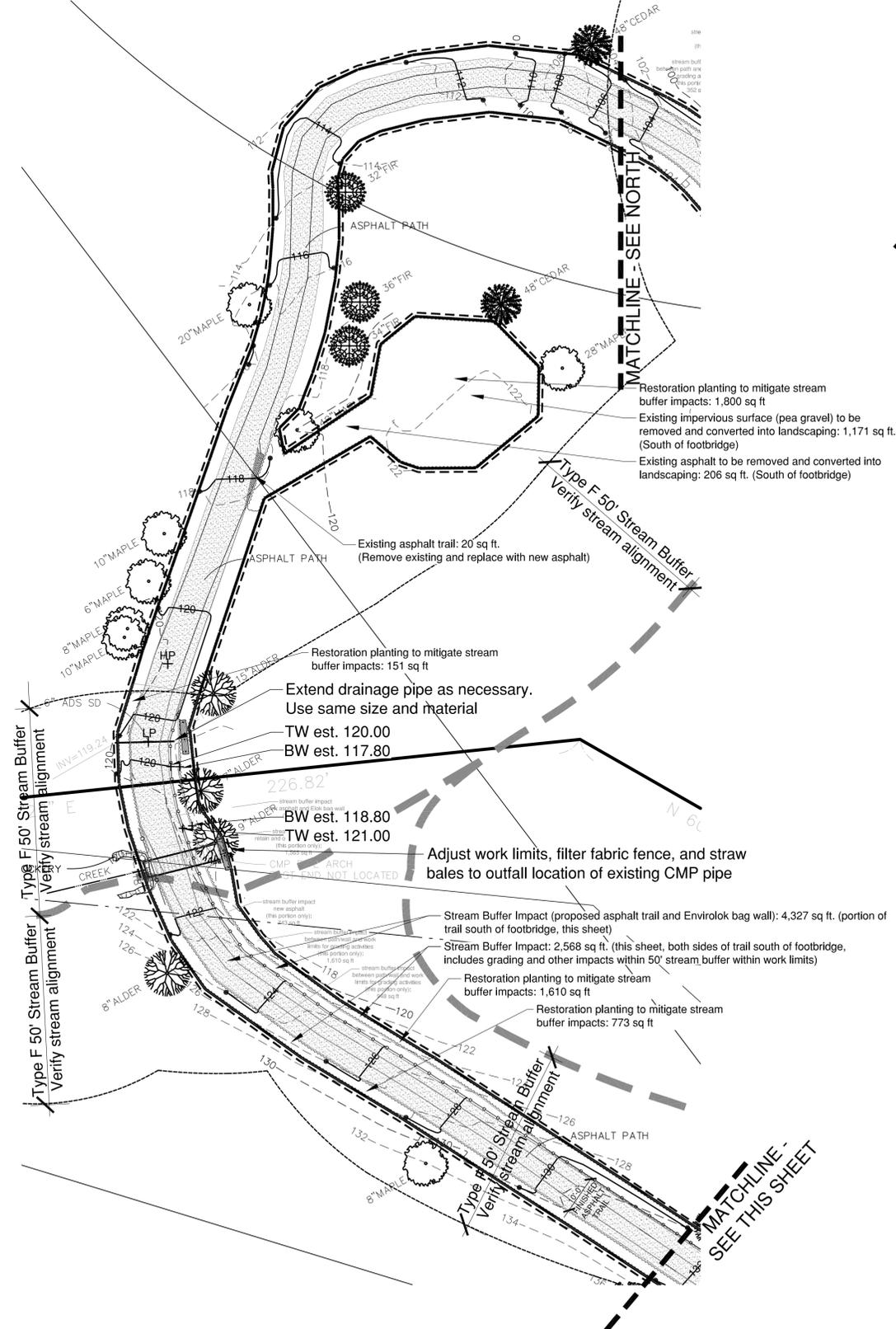
KEY PLAN

**LAYOUT and GRADING PLAN LEGEND**

- Limit of Work
- Station 01+60 Trail Alignment Station, Typical
- Proposed Contour
- New Railing
- Existing Tree Cut/Pruned into Snag as directed by Landscape Architect
- New Asphalt Trail Alignment, 10' Width throughout, excl. Footbridge. New asphalt overlay on top of existing, 10' width new asphalt
- Existing Asphalt Path. Width varies
- New Envirolok Wall. Heights vary
- New Trail Sign
- New Bollard
- Existing tree to be removed, typical. Evaluate possibility of turning tree into snag. See notes this sheet
- Vegetated Bioswale. Plant with native plants only. Arrows denote direction of flow
- Existing asphalt path and base material to be removed. Scarify existing soil and replant with native plants. Mulch top-dressing
- New 2-sided Information Kiosk
- High point
- Low point
- LP+ Estimated Top of wall. Field-verify prior to beginning work
- TW+ Estimated Bottom of wall. Field-verify prior to beginning work
- BW+ Estimated Bottom of wall. Field-verify prior to beginning work
- Existing Mts-to-Sound Trail



LAYOUT / GRADING PLAN - SOUTH SECTION



LAYOUT / GRADING PLAN - MIDDLE SECTION



NO.	DATE	BY	APPR.	REVISIONS
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JB	CHECKED BY	08/10/12	DATE

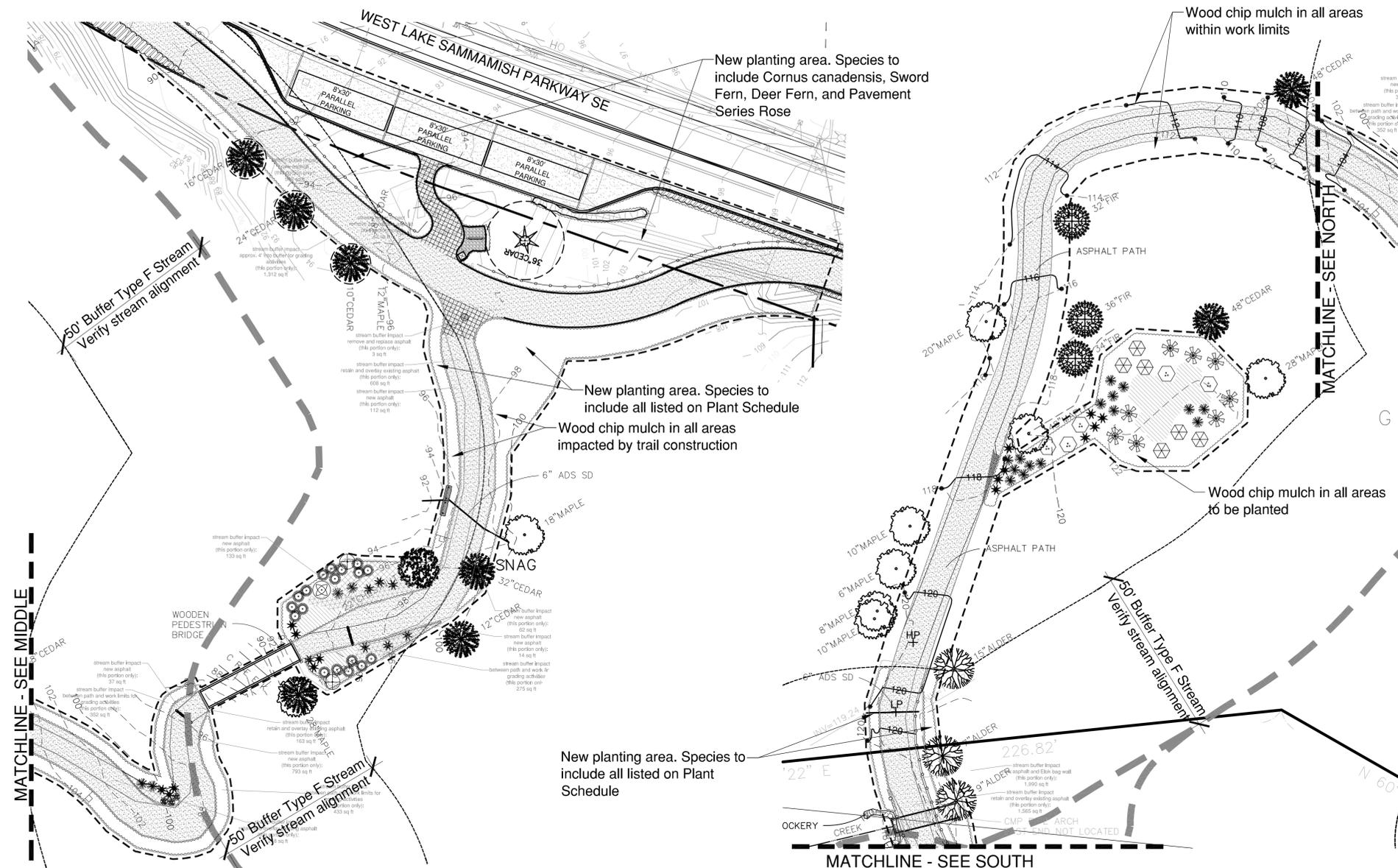
**City of Bellevue**  
Transportation Department

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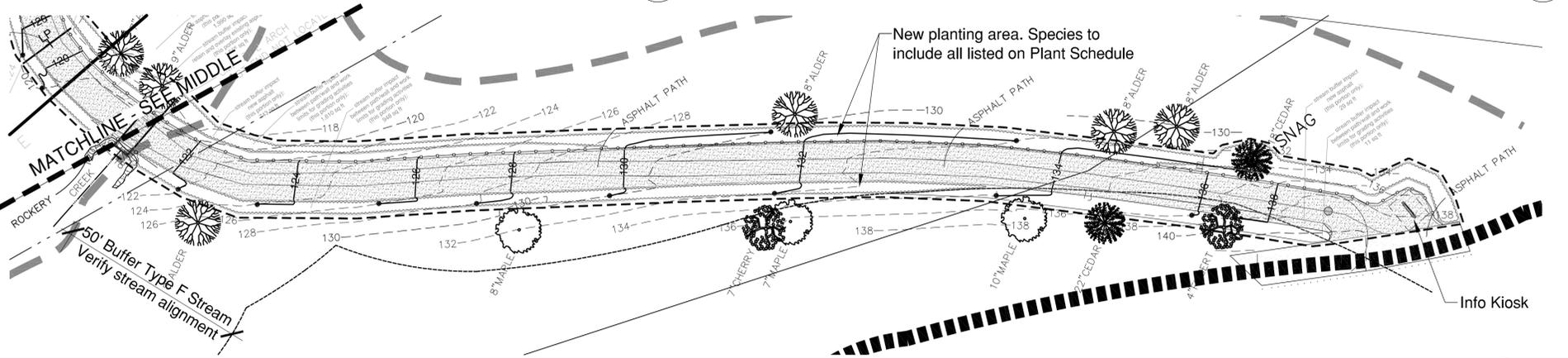
**LAYOUT & GRADING**

SHT 5 OF 9



**PLANTING PLAN - NORTH SECTION**

**PLANTING PLAN - MIDDLE SECTION**



**PLANTING PLAN - SOUTH SECTION**

**GENERAL PLANTING NOTES:**

1. Plant selection shall be consistent with the Bellevue Land Use Code, Section 20.20.520, Landscape Development.
2. Plants shall be selected and sited to produce a hardy and drought-resistant landscape area. Selection shall consider soil type and depth, the amount of maintenance required, spacing, exposure to sun and wind, the slope and contours of the site, and compatibility with existing native vegetation preserved on the site. Preservation of existing vegetation is strongly encouraged.
3. Prohibited materials. Plants listed as prohibited in the Bellevue Land Use Code are prohibited in required landscape areas. Additionally, there are other plants that may not be used if identified in Bellevue Land Use Code as potentially damaging to sidewalks, roads, underground utilities, drainage improvements, foundations, or when not provided with enough growing space.
4. All plants shall conform to American Association of Nurserymen (AAN) grades and standards as published in the "American Standard for Nursery Stock" manual.
5. Plants shall meet the minimum size standards established in other sections of Bellevue Land use Code, Section 20.20.520 Landscape Development.
6. Multiple-stemmed trees may be permitted as an option to single-stemmed trees for required landscaping provided that such multiple-stemmed trees are at least ten (10) feet in height and that they are approved by the Planning Official prior to installation.
7. Soils in planting areas shall have adequate porosity to allow root growth. Soils which have been compacted shall be loosened to increase aeration to a minimum depth of six (6) inches or to the depth of the largest plant root ball, whichever is greater. After soil preparation is completed, motorized vehicles shall be kept off to prevent excessive compaction and underground pipe damage. The organic content of soils in any landscape area shall be as necessary to provide adequate nutrient and moisture-retention levels for the establishment of plantings. See Bellevue Clearing and Grading Development Standards for mulch requirements.
8. Required plantings, except areas of established ground cover, shall be covered with three inches or more of wood chip mulch to minimize evaporation and runoff.
9. All mulches used in planter beds shall be kept at least six (6) inches away from the trunks of shrubs and trees.
10. All required landscaped areas, particularly trees and shrubs, must be protected from potential damage by adjacent uses and development, including parking and storage areas. Protective devices such as bollards, wheel stops, trunk guards, root guards, etc., may be required in some situations.

**RESTORATION PLANT SCHEDULE**

**SHRUBS and PERENNIALS**

SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	REMARKS	TOTAL QUANT.
⊕	Holodiscus discolor	Oceanspray	1-gallon	As shown		2
⊕	Symphoricarpos albus	Snowberry	1-gallon	As shown	-	6
⊕	Corylus cornuta	Beaked Hazelnut	1-gallon	As shown	-	1
✱	Polystichum munitum	Sword Fern	1-gallon	As shown	-	30
✱	Mahonia nervosa	Low Oregon Grape	1-gallon	As shown	-	19
⊕	Rosa gymnocarpa	Bald Hip Rose	1-gallon	As shown	-	18
✱	Vaccinium ovatum	Evergreen Huckleberry	1-gallon	As shown	-	9
⊕	Trillium ovatum	Western Trillium	1-gallon	As shown	-	3
⊕	Ribes sanguineum	Red Flowering Currant	1-gallon	As shown	-	6

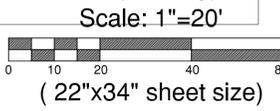
**GROUNDCOVER**

SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	REMARKS	TOTAL QUANT.
⊕	Oxalis oregana	Redwood Sorrel	4" pot	12" o.c.	tri-spacing, container	200
⊕	Gaultheria shallon	Salal	1 gallon	24" o.c.	tri-spacing, container	114
⊕	Dicentra formosa	Bleeding Heart	1 Gallon	18" o.c.	tri-spacing, container	40

**LIVE STAKES**

SYMBOL	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	REMARKS	TOTAL QUANT.
⊕	Rosa gymnocarpa	Baldhip Rose	6"-12"+ bare root	2 bare root/bag		x
⊕	Fragaria chiloensis	Dune Strawberry	4" pot	2 pots/bag		x
⊕	Holodiscus discolor	Oceanspray	6"-12"+ bare root	2 bare root/bag		x
⊕	Ribes sanguineum	Red Flowering Currant	6"-12"+ bare root	2 bare root/bag		x
⊕	Cornus sericea	Red Osier Dogwood	6"-12"+ bare root	2 bare root/bag		x
⊕	Lonicera involucrata	Twinberry	6"-12"+ bare root	2 bare root/bag		x

Bare root to be planted between Envirolok bag layers, two bare root per bag, approx. 12" on-center. Place bare root plant on bag prior to placing next layer of bag above. Contractor to verify quantity of live stakes necessary.



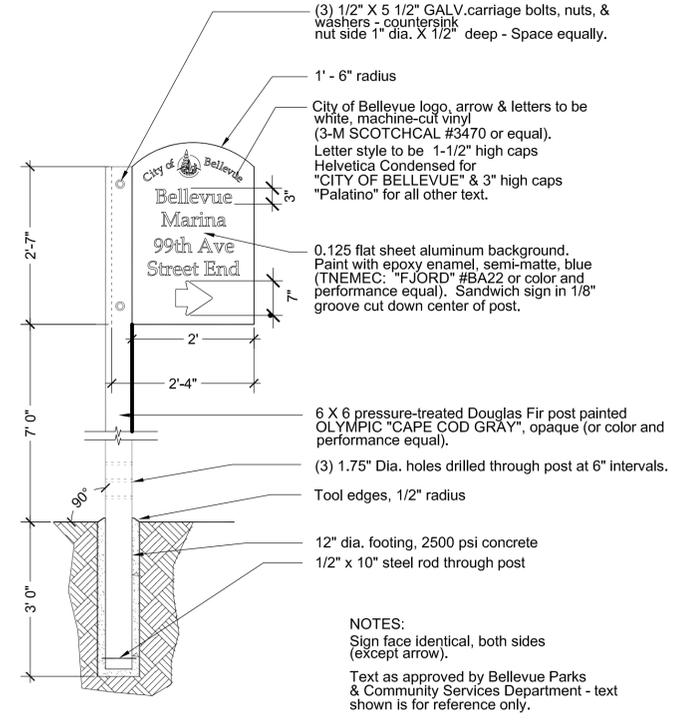
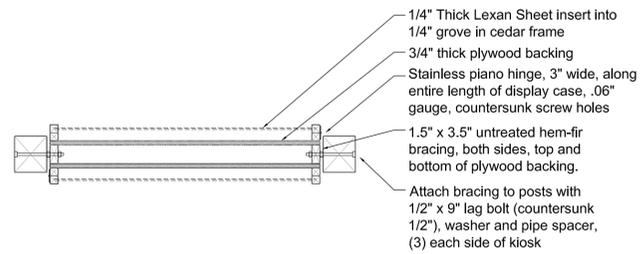
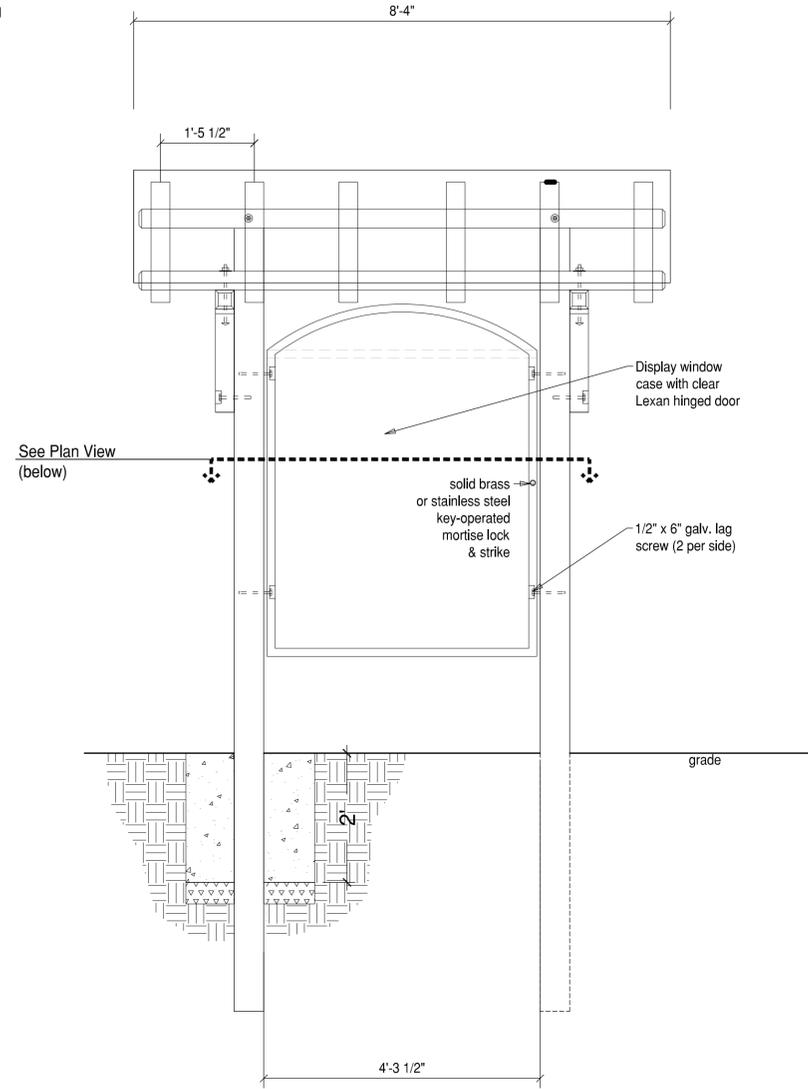
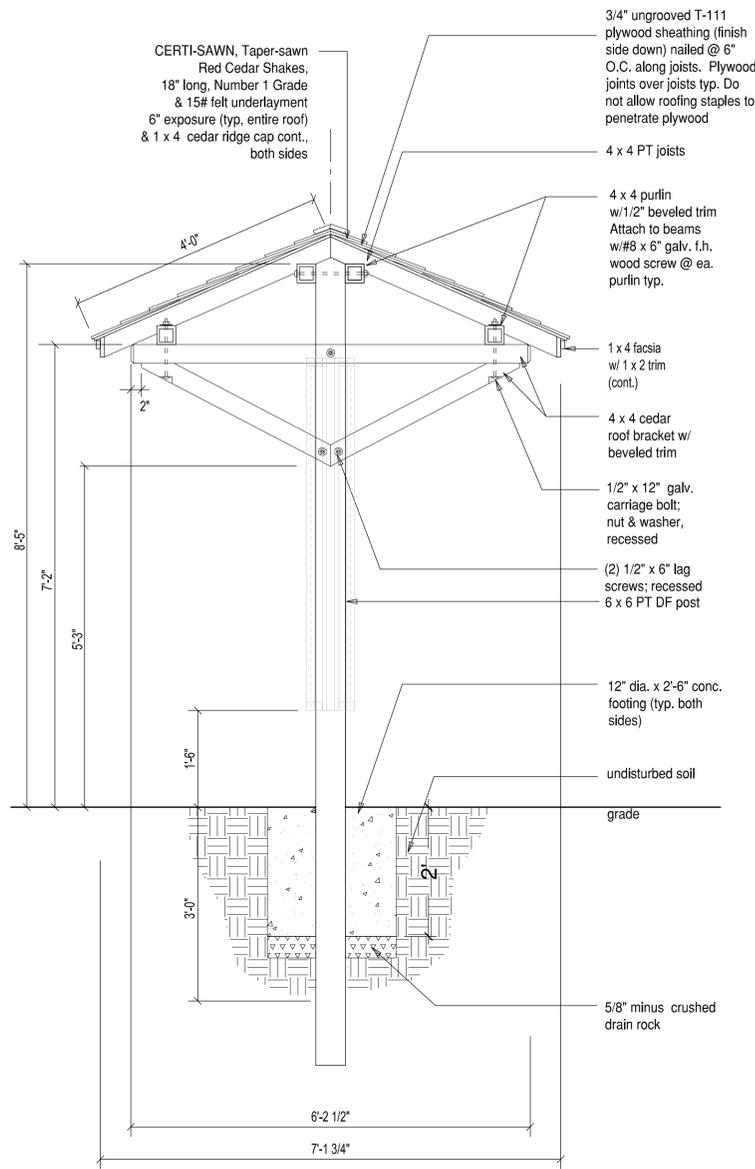
NO.	DATE	BY	APPR.	REVISIONS
1	3.27.13	JV	JB	REVISED SITE CALCULATIONS

Approved By

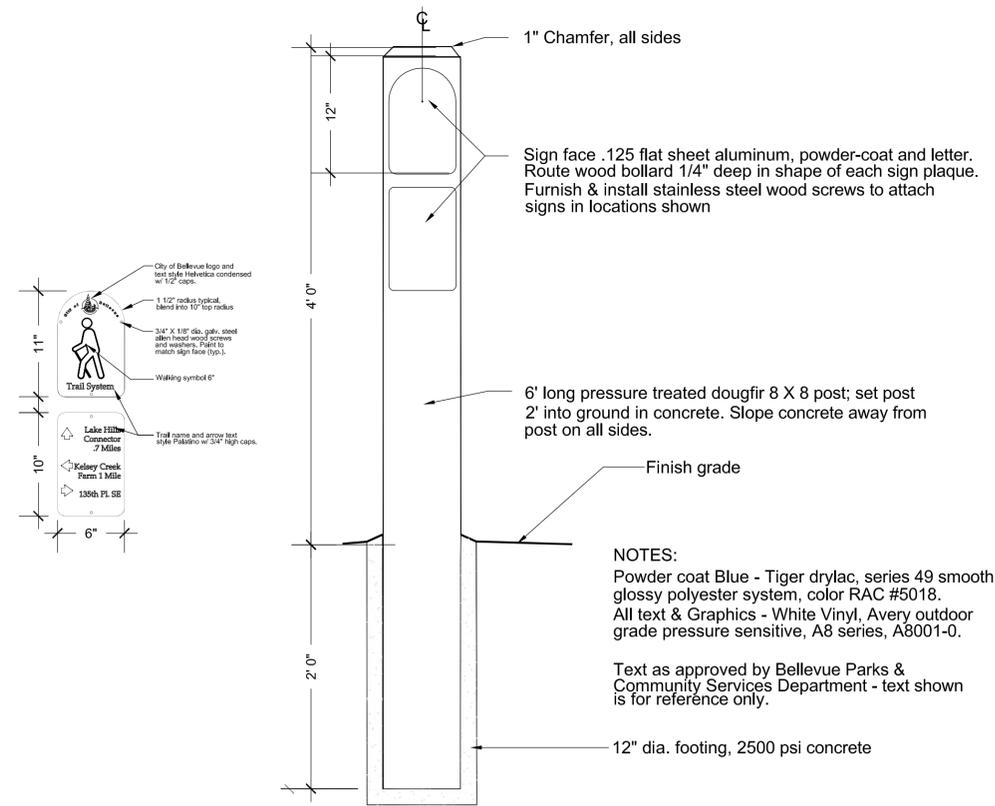
TRANSPORTATION DESIGN MANAGER	DATE	JV, NM DESIGNED BY	08/10/12 DATE
PROJECT MANAGER	DATE	JV, NM DRAWN BY	08/10/12 DATE
	DATE	JB CHECKED BY	08/10/12 DATE



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**West Lake Sammamish Pkwy SE**  
**Bellevue, WA 98008**



**B** DIRECTIONAL SIGN  
NTS

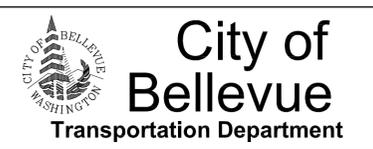


**C** DIRECTIONAL SIGN - BOLLARD  
NTS

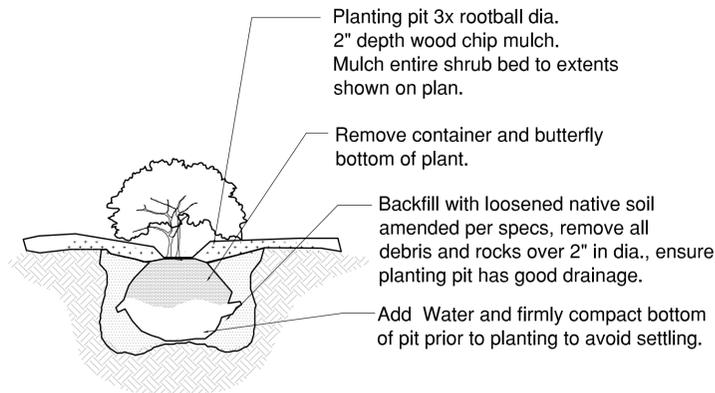
**A** KIOSK SECTION & ELEVATION  
NTS

NO.	DATE	BY	APPR.	REVISIONS
1	3.27.13	JV	JB	REVISED SITE CALCULATIONS

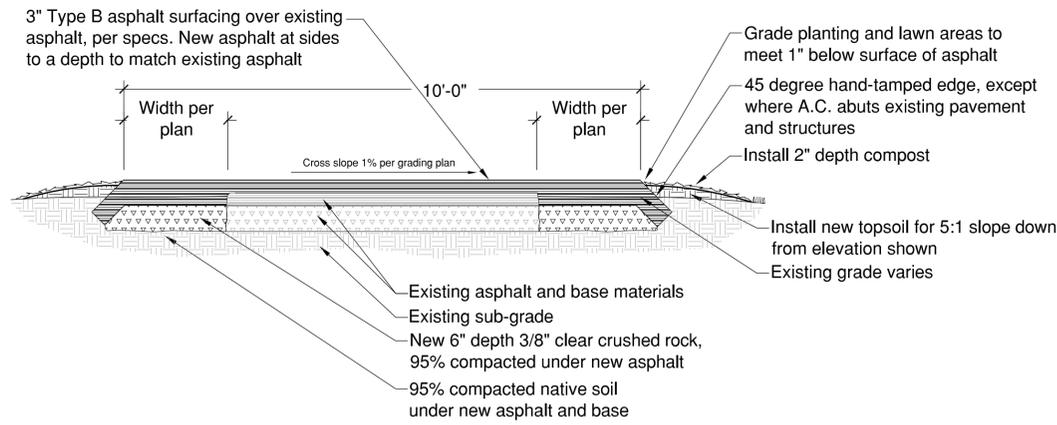
Approved By		JV,NM	08/10/12
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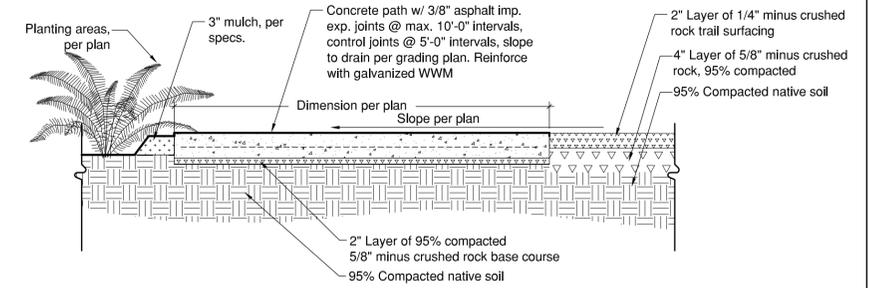
**Sunrise Park Trail Project**  
**West Lake Sammamish Pkwy SE**  
**Bellevue, WA 98008**



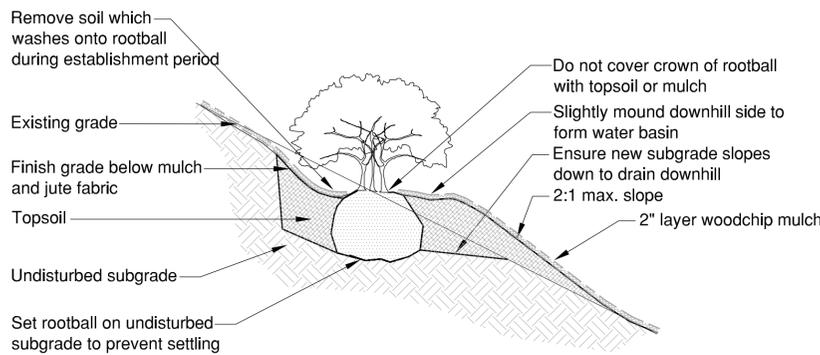
**A** SHRUB PLANTING  
NTS



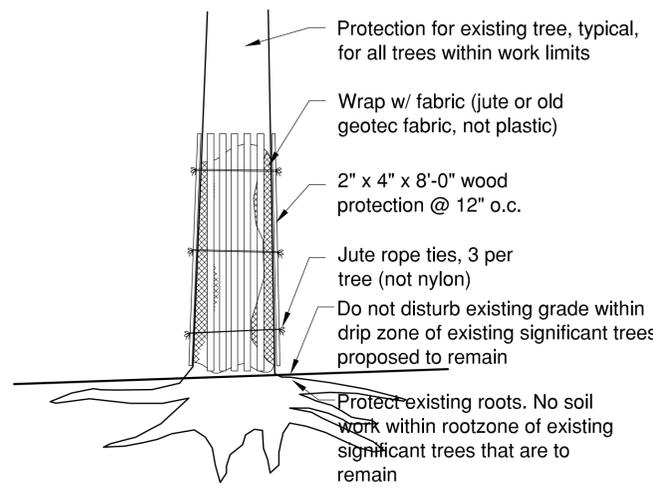
**C** NEW ASPHALT WALKWAY - OVERLAY ON EXISTING  
NTS



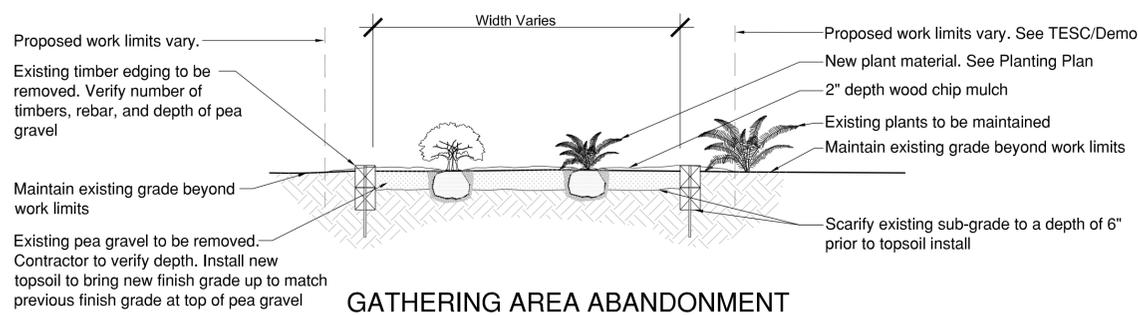
**F** BOMANITE/CRUSHED ROCK TRANSITION  
NTS



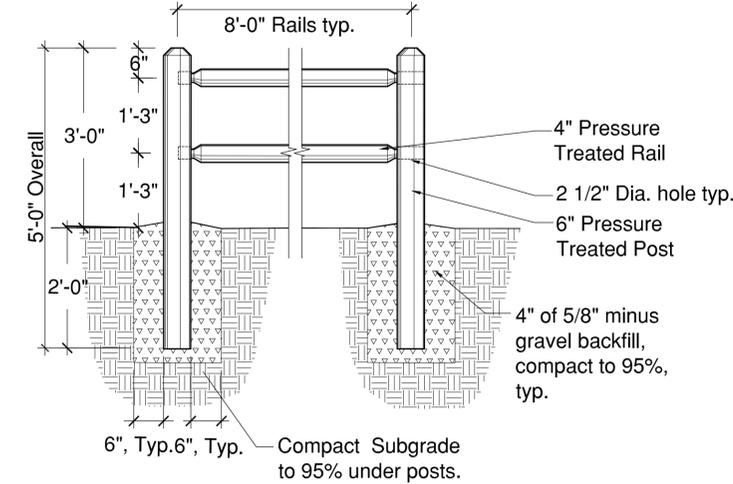
**B** HILLSIDE SHRUB and GROUND COVER PLANTING  
NTS



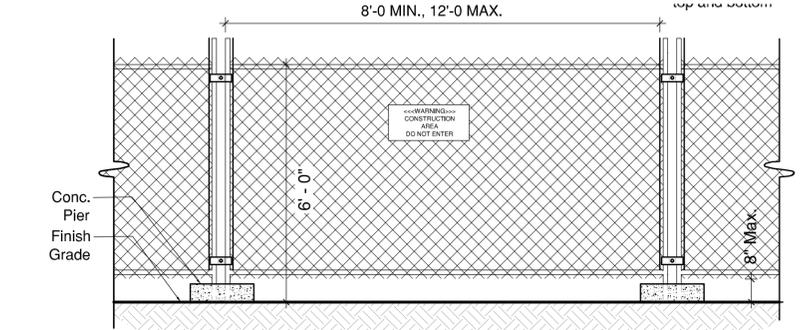
**D** TREE PROTECTION  
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**C** GATHERING AREA and EXISTING ASPHALT TRAIL ABANDONMENT  
NTS

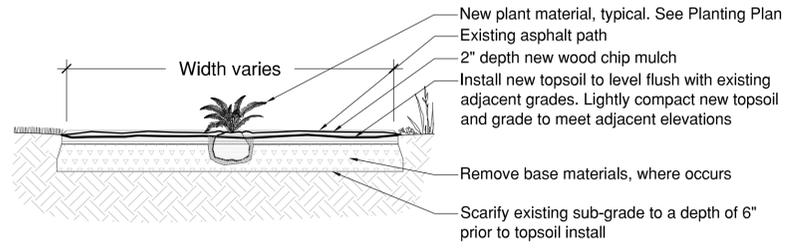


**E** SPLIT RAIL FENCE  
NTS

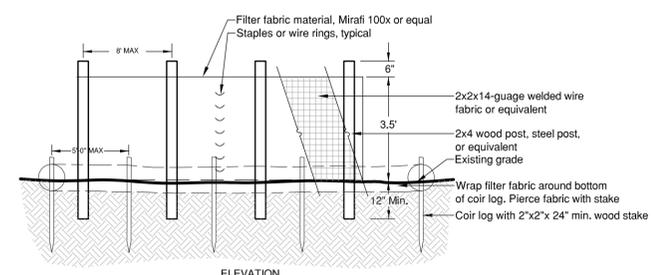
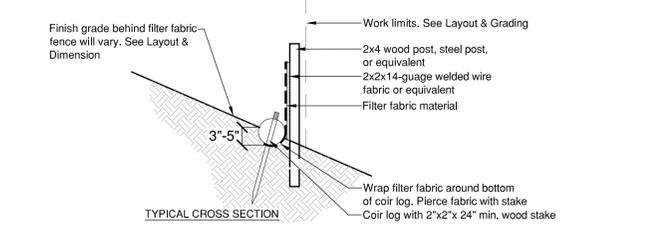


- Notes:
1. Chain link fabric to be min. 11 gauge, galvanized. No rusted or excessively malformed fabric.
  2. Fence bases shall be of sufficient weight and/or spread to adequately support each panel.
  3. Panel-to-panel connections shall be made at a min. Two locations per connection unless otherwise approved.
  4. Provide construction warning signage 50' o.c. Along fencing installation.

**G** CONSTRUCTION FENCING  
NTS



**C** GATHERING AREA and EXISTING ASPHALT TRAIL ABANDONMENT  
NTS



- NOTES
1. Prefab fence allowed if reinforced and approved by the city clearing and grading inspector.
  2. Fence shall not be installed on slopes steeper than 2:1.
  3. Joints in filter fabric shall be overlapped 6 inches at post.
  4. Use staples, wire rings, or equivalent to attach fabric to fence.
  5. Remove sediment when it reaches 1/3 fence height.
  6. Location of fencing shall be as shown on approved plans or as directed by the city.

**H** FILTER FABRIC FENCE and COIR LOG  
NTS

NO.	DATE	BY	APPR.	REVISIONS
1	3.27.13	JV	JB	REVISED SITE CALCULATIONS

Approved By	
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PROJECT MANAGER	DATE
	DATE

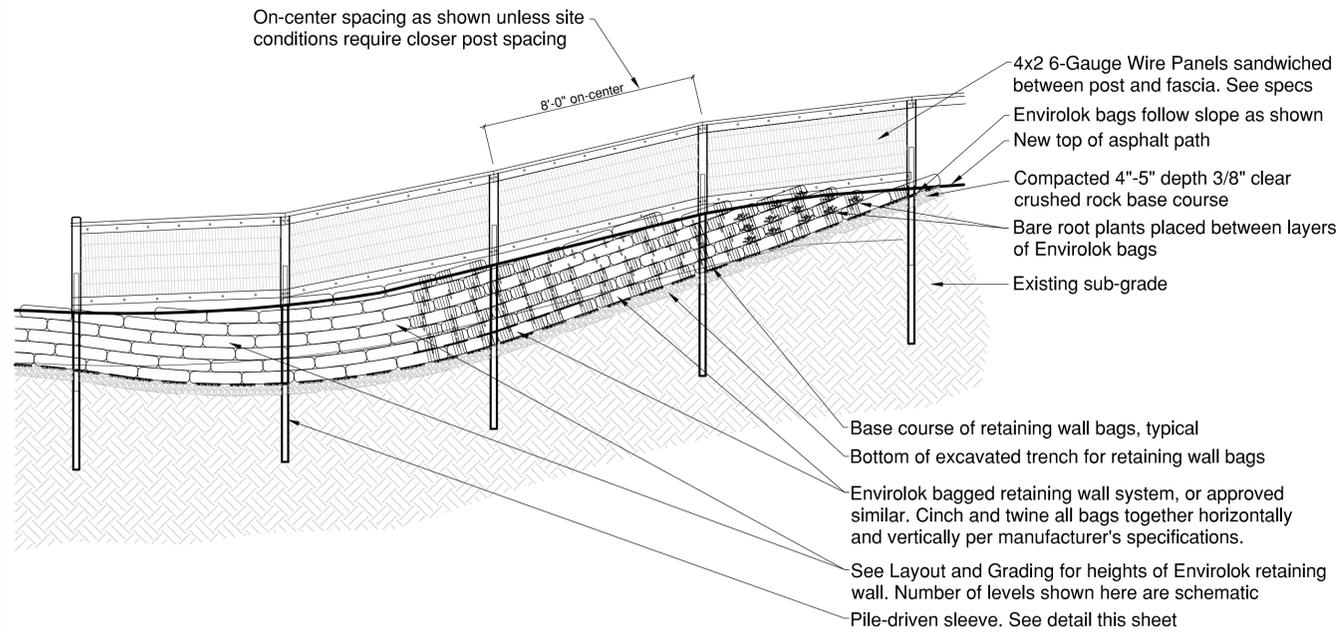
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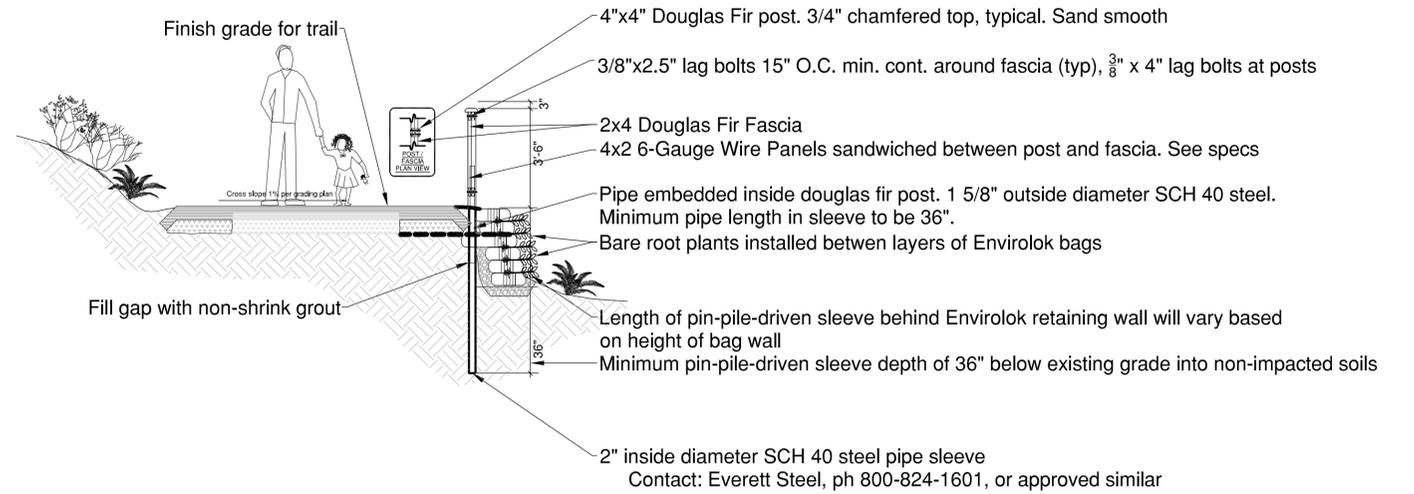
Sunrise Park Trail Project  
West Lake Sammamish Pkwy SE  
Bellevue, WA 98008

DETAILS

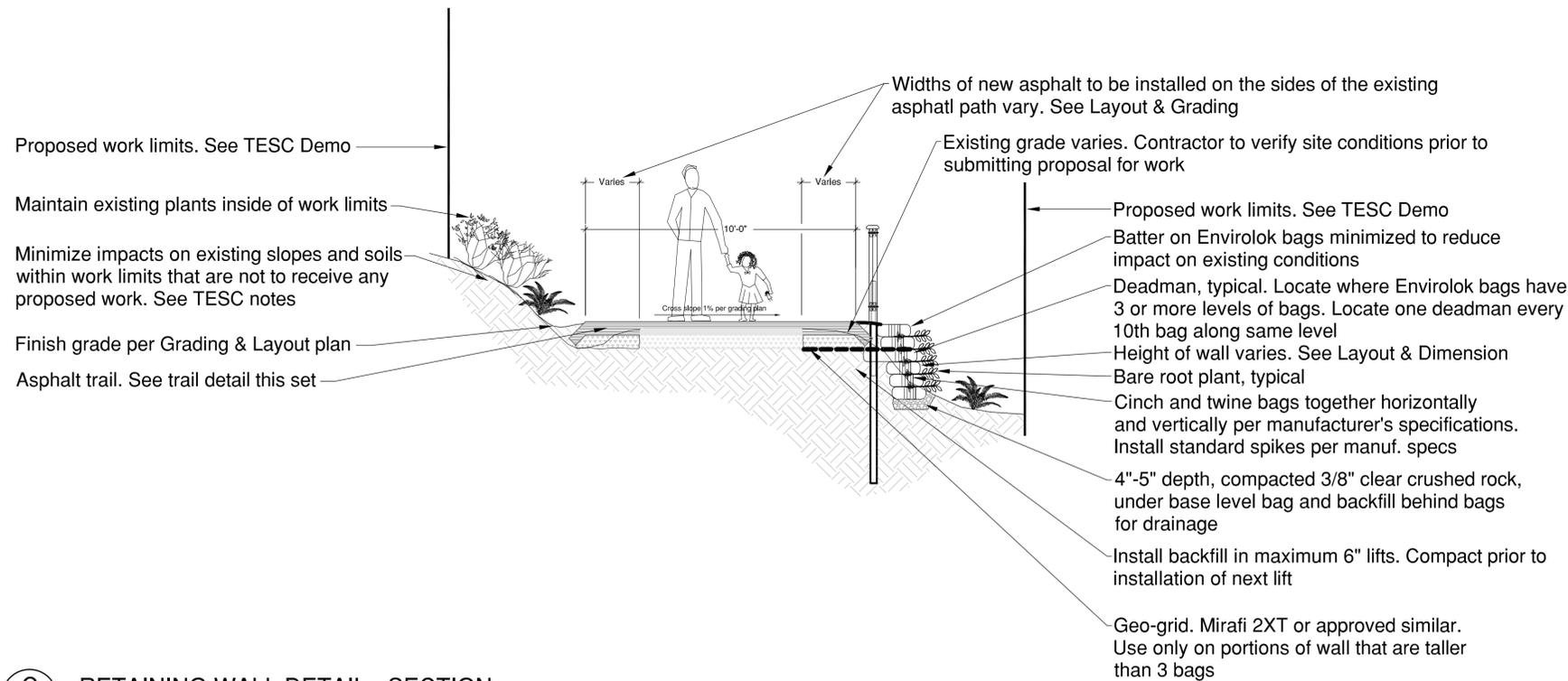
SHT 8 OF 9



**A** RETAINING WALL - ELEVATION  
SCALE: NTS



**B** RETAINING WALL - POST & RAIL DETAIL  
SCALE: NTS



**C** RETAINING WALL DETAIL - SECTION  
SCALE: NTS

NO.	DATE	BY	APPR.	REVISIONS
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Bellevue, WA 98008**

**ENVIROLOK DETAILS**

8 March 2013

Geoff Bradley  
City of Bellevue  
Parks and Community Services Department  
450 110<sup>th</sup> Ave SE  
Bellevue, WA 98004  
Via email: [gbradley@bellevuewa.gov](mailto:gbradley@bellevuewa.gov)

## **Re: Sunrise Park Trail Improvement – Stream Study**

The Watershed Company Reference Number: 130213

Dear Geoff:

The purpose of this letter is to describe the existing conditions within the proposed project area for the Sunrise Park Trail Improvement project and likely impacts of the proposed project on Sunrise Creek and the Sunrise Creek buffer. Observations are based on available project plans and a February 25, 2013 site visit by Sarah Sandstrom, Fisheries Biologist, and Mark Garff, Senior Landscape Architect of The Watershed Company.

Existing facilities within or partially within the 50-foot stream buffer include a gravel parking area, which accommodates approximately 4-5 vehicles (Photo 1), a paved asphalt trail (Photo 2), and a wooden footbridge with a concrete abutment (Photo 3). An overlook, consisting of pea gravel is located just outside of the stream buffer (Photo 4). The trail shoulder areas (extending approximately two feet on either side of the trail) are typically compacted bare dirt (Photo 2). Vegetation at the site is forested, with shrub and herbaceous strata. Forested vegetation is dominated by western red cedar (*Thuja plicata*), bigleaf maple (*Acer macrophyllum*), black cottonwood (*Populus balsamifera*), and Douglas fir (*Pseudotsuga menziesii*). Dominant shrubs include salmonberry (*Rubus spectabilis*), osoberry (*Oemleria cerasiformis*), red huckleberry (*Vaccinium parvifolium*), and beaked hazelnut (*Corylus cornuta*). Herbaceous vegetation is predominantly sword fern (*Polystichum munitum*). Himalayan blackberry (*Rubus armeniacus*) is present and locally dominant in places.

Sunrise Creek flows through a narrow valley with steep, predominantly vegetated banks (Photo 5). Undercut banks are present in the central portion of the project area, downstream from the confluence of Sunrise Creek and a tributary (Photo 6). Large wood is present in moderate densities within the bankful width of the stream (Photo 7). Stream substrate is predominantly composed of gravel and cobble within the project

vicinity. Rip rap boulders are present at the base of the wooden footbridge. Two seeps are present within the project area that flow through 6-inch culverts under the paved trail. Erosion on the lower (west) side of the trail indicates that the seeps are flowing over the trail under wet conditions (Photo 8).

Salmonid use of Sunrise Creek has not been documented by Washington Department of Fish and Wildlife's SalmonScape database (WDFW 2013) and is not documented in the known freshwater distribution of salmon and trout in the Lake Washington/ Cedar/ Sammamish Watershed (WRIA 8 2001). Given the perennial nature of the stream, and its proximity to Lake Sammamish, fish use of the stream is assumed.

No direct stream impacts are proposed. The proposed project will involve the following impacts that will occur within the stream buffer: Paved parking area, creation of a new paved trail near West Lake Sammamish Parkway, widening of the existing paved trail through the park, installation of an Envirolok retaining wall, and vegetation removal to accommodate new parking and trails. Removal of vegetation will primarily occur in the area of the new trail along West Lake Sammamish Parkway. Throughout the remainder of the park, the shoulders of the existing trail are compacted and lack significant vegetation, with the exception of one large cedar, which occurs very close to the trail. This cedar will be topped to create a snag for bird habitat. Proposed mitigation planting areas are located in existing bare areas within and outside of the buffer, including one informal path along the creek and an existing pea-gravel overlook just outside of the buffer. Mitigation plantings within the buffer will provide vegetative cover, stabilize banks, and help infiltrate and treat stormwater. Mitigation plantings outside of the buffer area will improve the wildlife habitat corridor within the park.

The Envirolok wall is proposed at the east side of the footbridge and just upstream of the confluence of the two creeks. The Envirolok wall is intended to stabilize slopes sufficiently to enable the permanent establishment of native vegetation along the streambanks in areas that occur in close proximity to trail infrastructure. The Envirolok wall provides a soft stabilization approach, and is preferred over other hard structural stabilization alternatives.

When combined with proposed mitigation, the proposed park improvements are not expected to result in a degradation of stream functions or values. Improvements are primarily concentrated within an existing trail alignment and will mainly occur within the non-vegetated and compacted trail shoulder. Proposed native plantings within and outside of the buffer should be expected to offset any minimal impact to the buffer and may result in a long-term ecological improvement.

Please call if you have any questions or if we can provide you with any additional information.

Sincerely,



Sarah Sandstrom

### References

Washington Department of Fish and Wildlife (WDFW). 2013. SalmonScape.  
<http://wdfw.wa.gov/mapping/salmonscape/index.html>.

Water Resource Inventory Area (WRIA) 8. 2013. Known Freshwater Distribution of  
Salmon and Trout in Water Resource Area 8.  
<http://www.govlink.org/watersheds/8/reports/fish-maps/default.aspx>

### Photos



Photo 1: Existing gravel parking area.



Photo 2: Existing paved trail with compressed dirt shoulders with minimal vegetative significance.



Photo 3: Wood footbridge with concrete abutment to remain.



Photo 4: Pea gravel overlook outside of buffer to be removed and revegetated.



Photo 5: Sunrise Creek buffer near parking area.



Photo 6: Confluence of Sunrise Creek and unnamed tributary. Note undercut banks.



Photo 7: Sunrise Creek near footbridge. Note Himalayan blackberry and large woody debris.



Photo 8: Erosion on west side of trail.